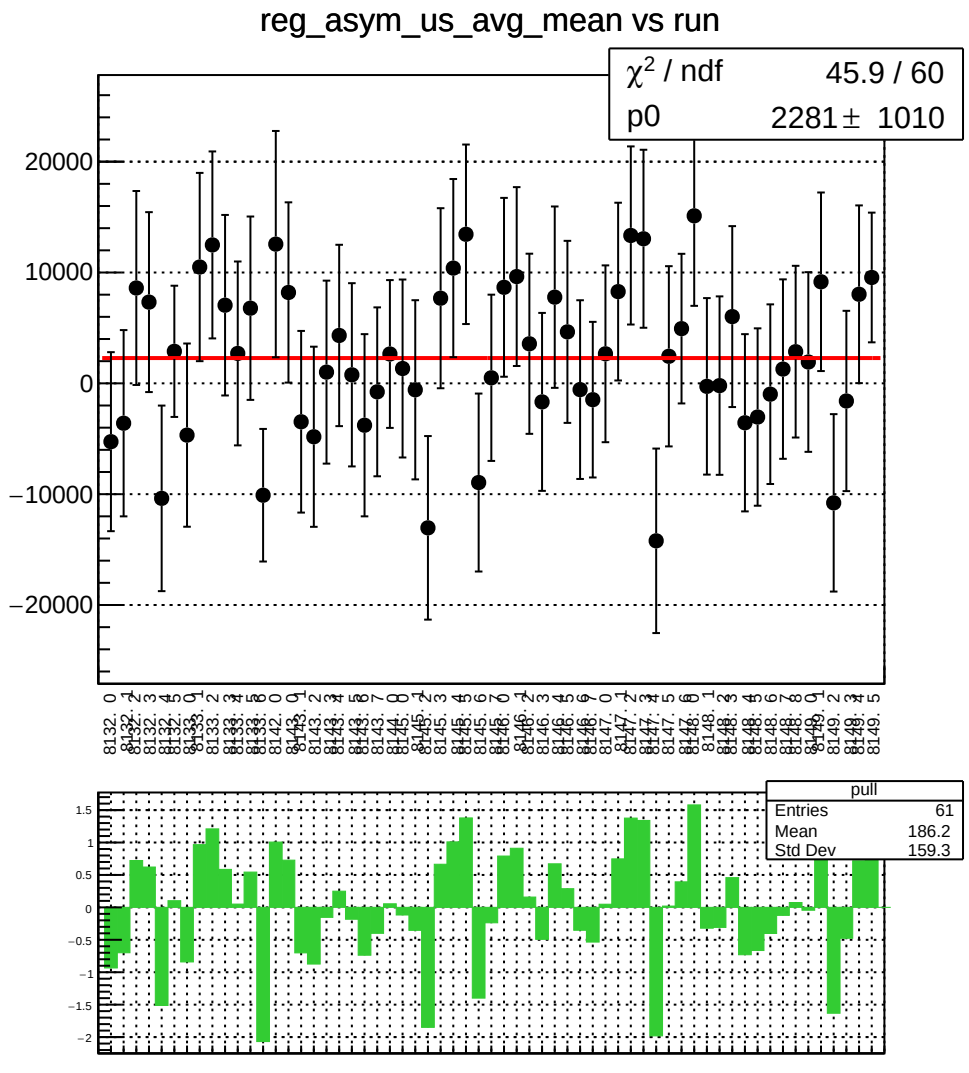
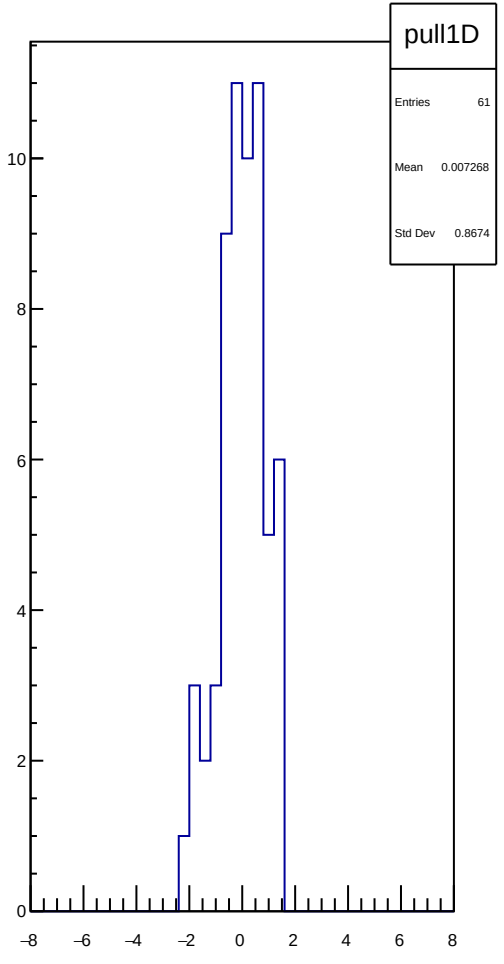
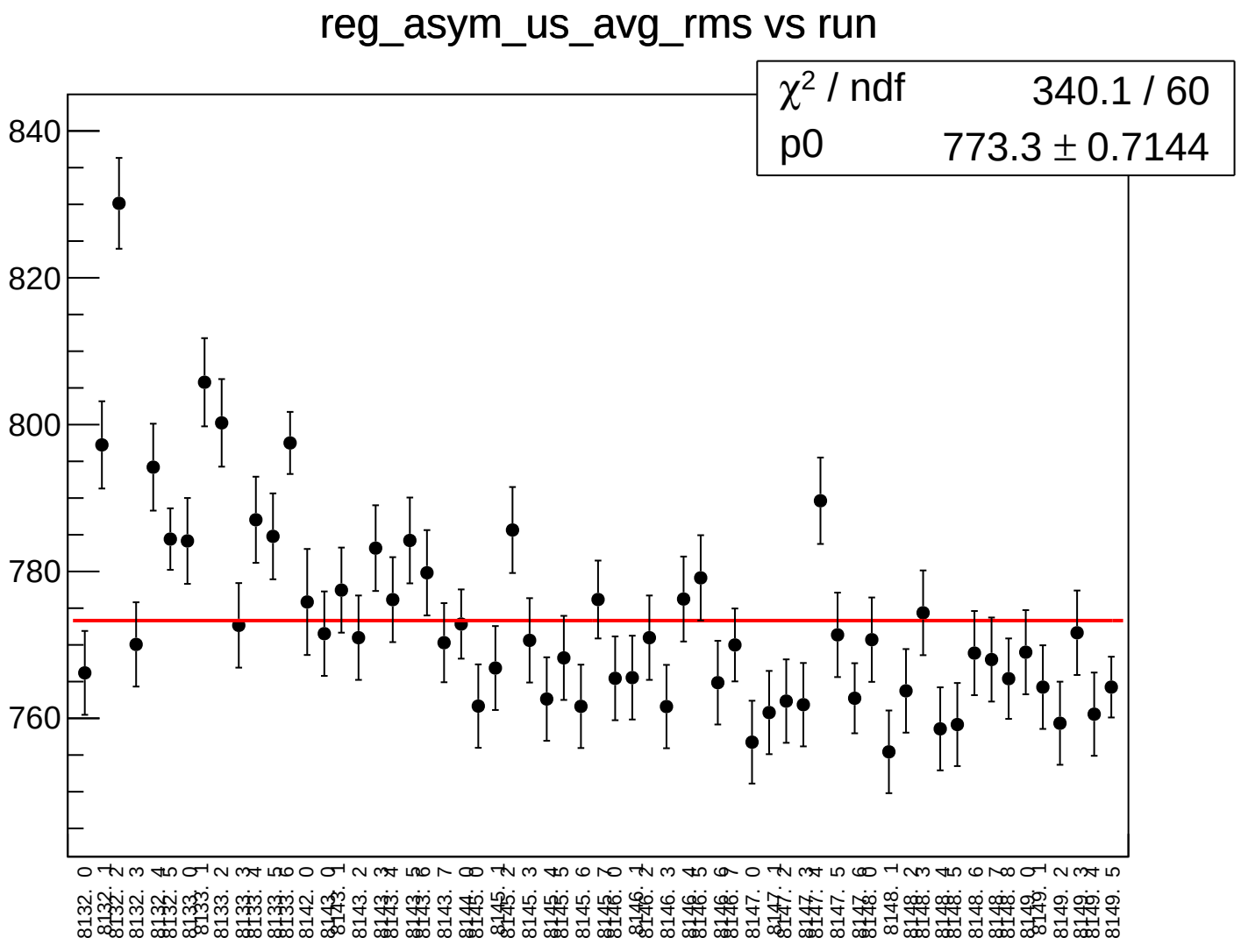
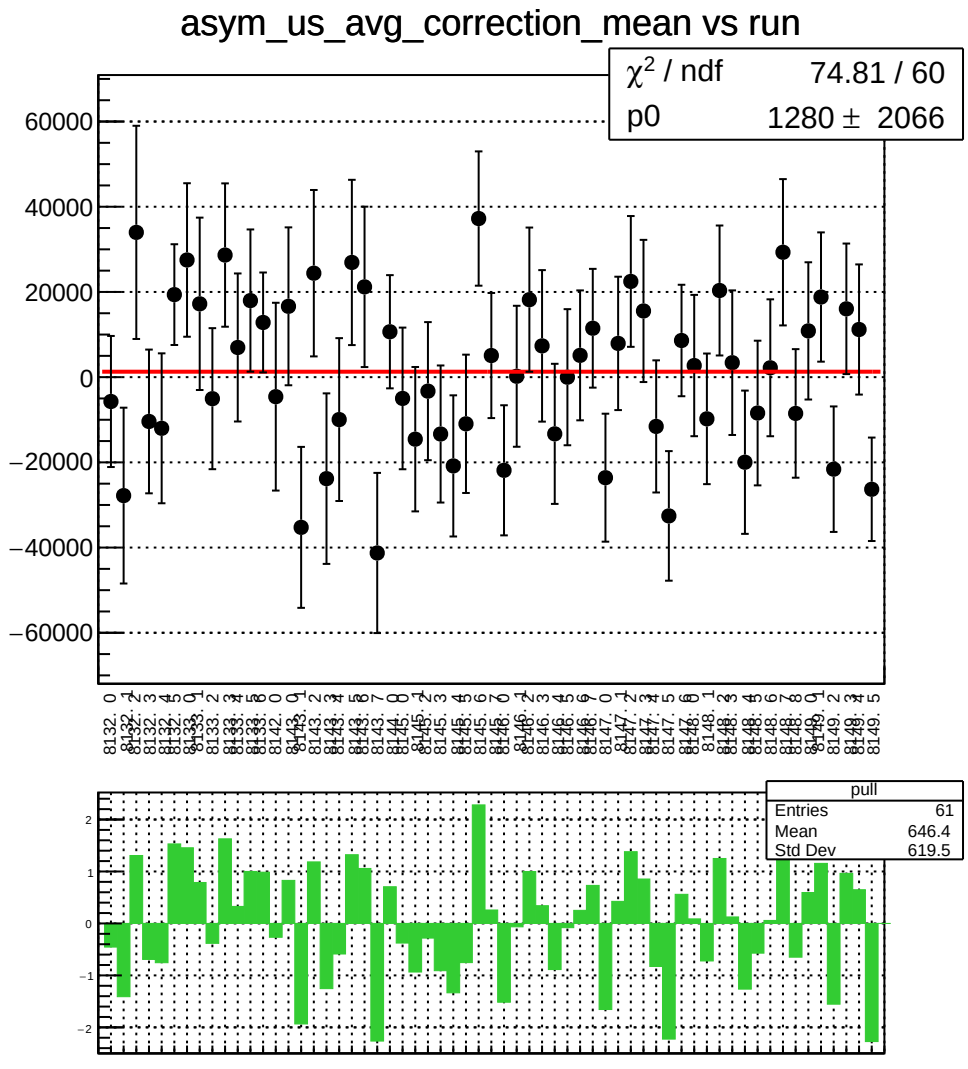
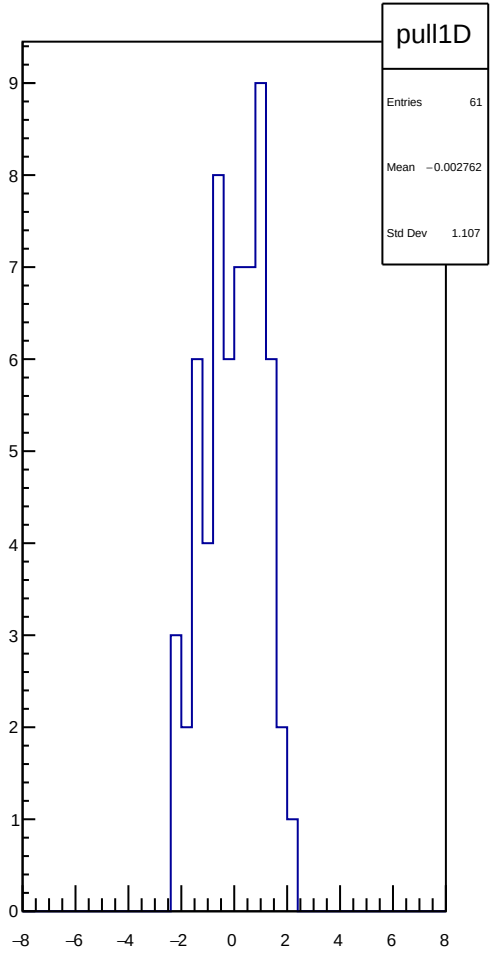
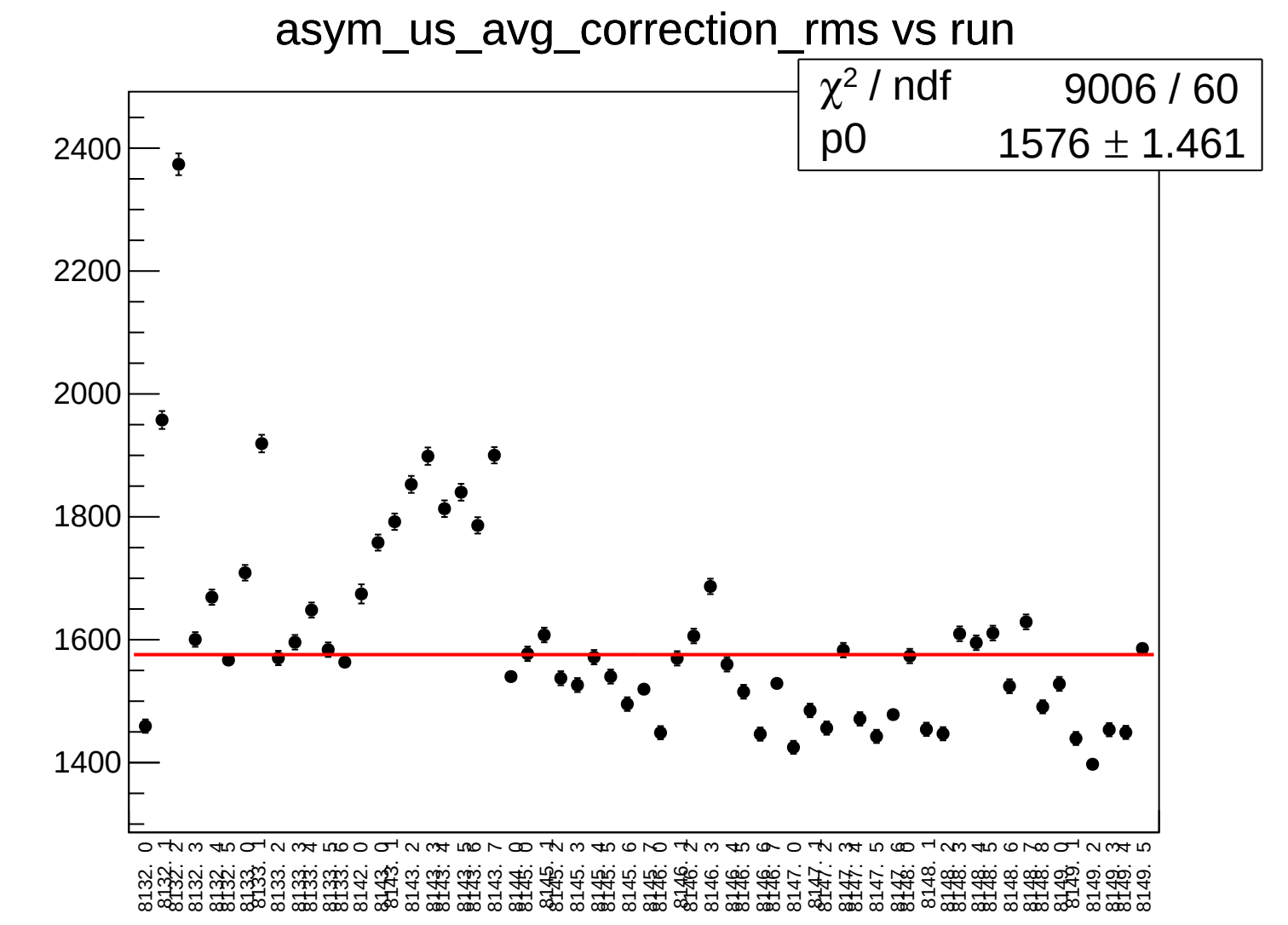

reg_asym_us_avg_mean vs run
χ² / ndf 45.9 / 60
p0 2281 ± 1010
20000
10000
0
−10000
−20000
pull
Entries 61
Mean 186.2
Std Dev 159.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

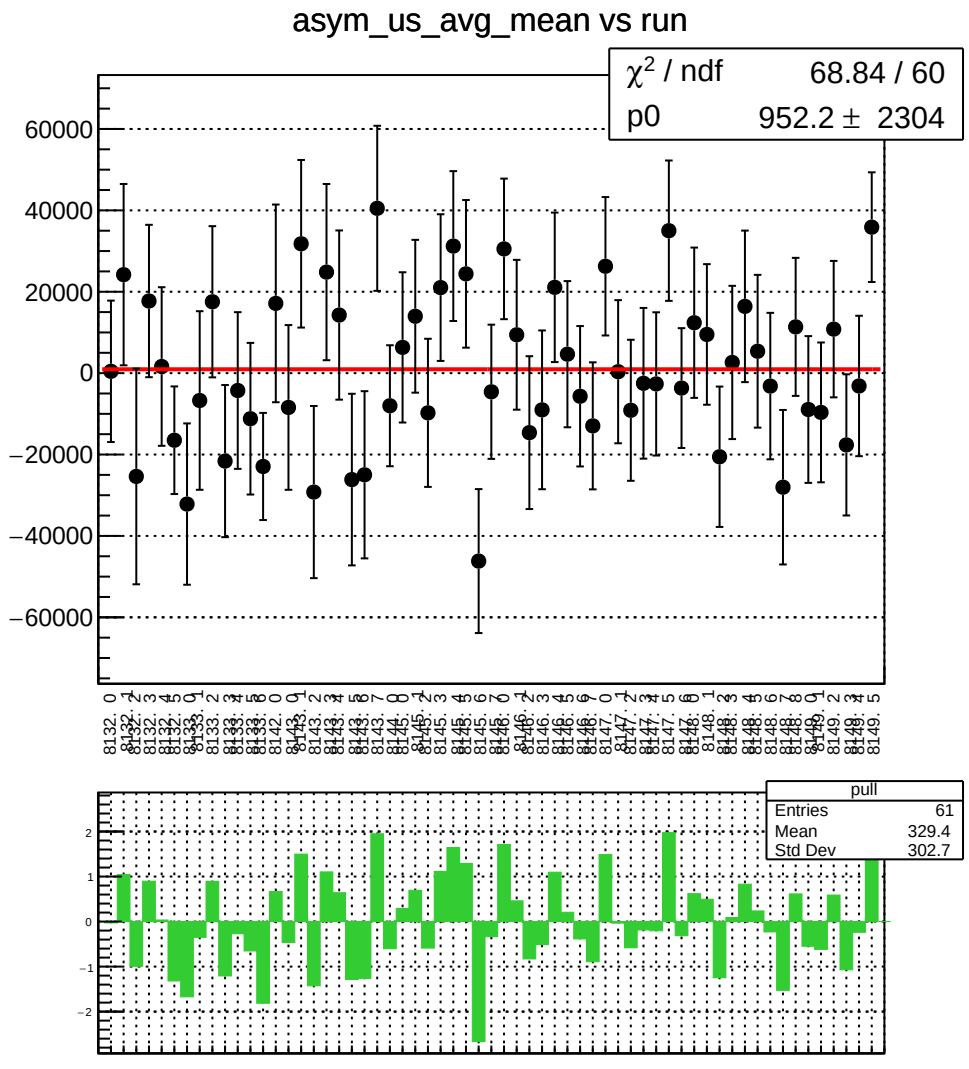

pull1D
Entries 61
Mean 0.007268
Std Dev 0.8674
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

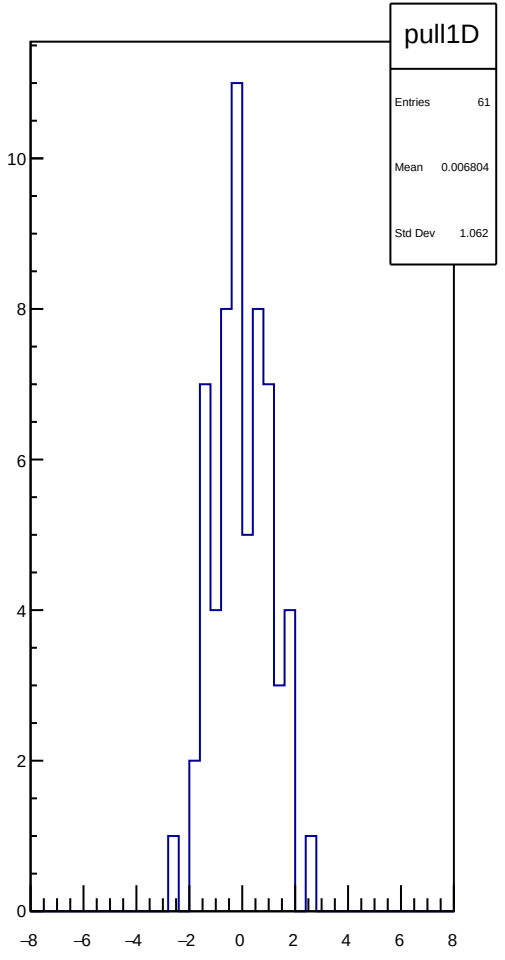

reg_asym_us_avg_rms vs run
χ² / ndf 340.1 / 60
p0 773.3 ± 0.7144
840
820
800
780
760

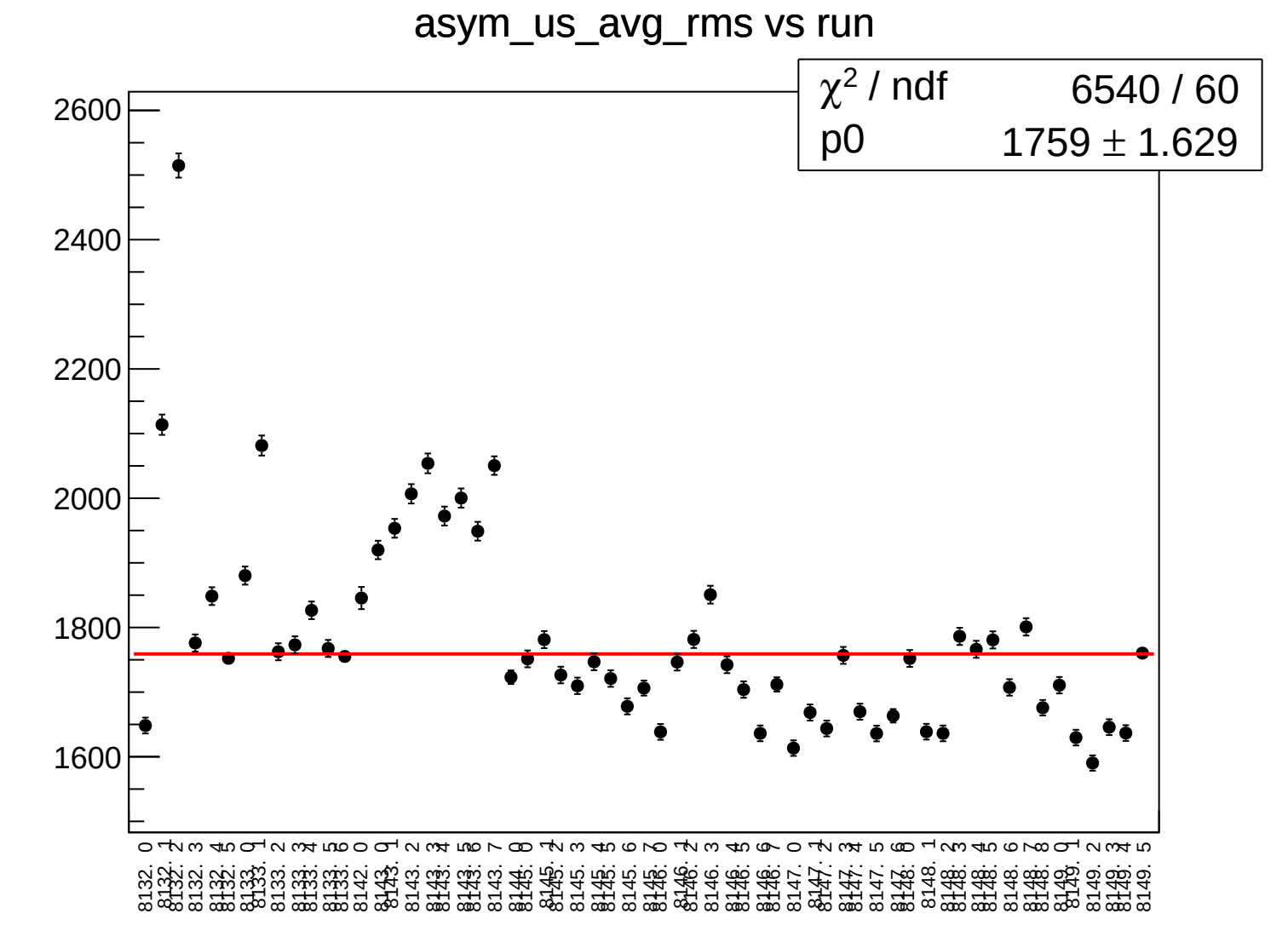

asym_us_avg_correction_mean vs run
χ² / ndf 74.81 / 60
p0 1280 ± 2066
pull
Entries 61
Mean 646.4
Std Dev 619.5

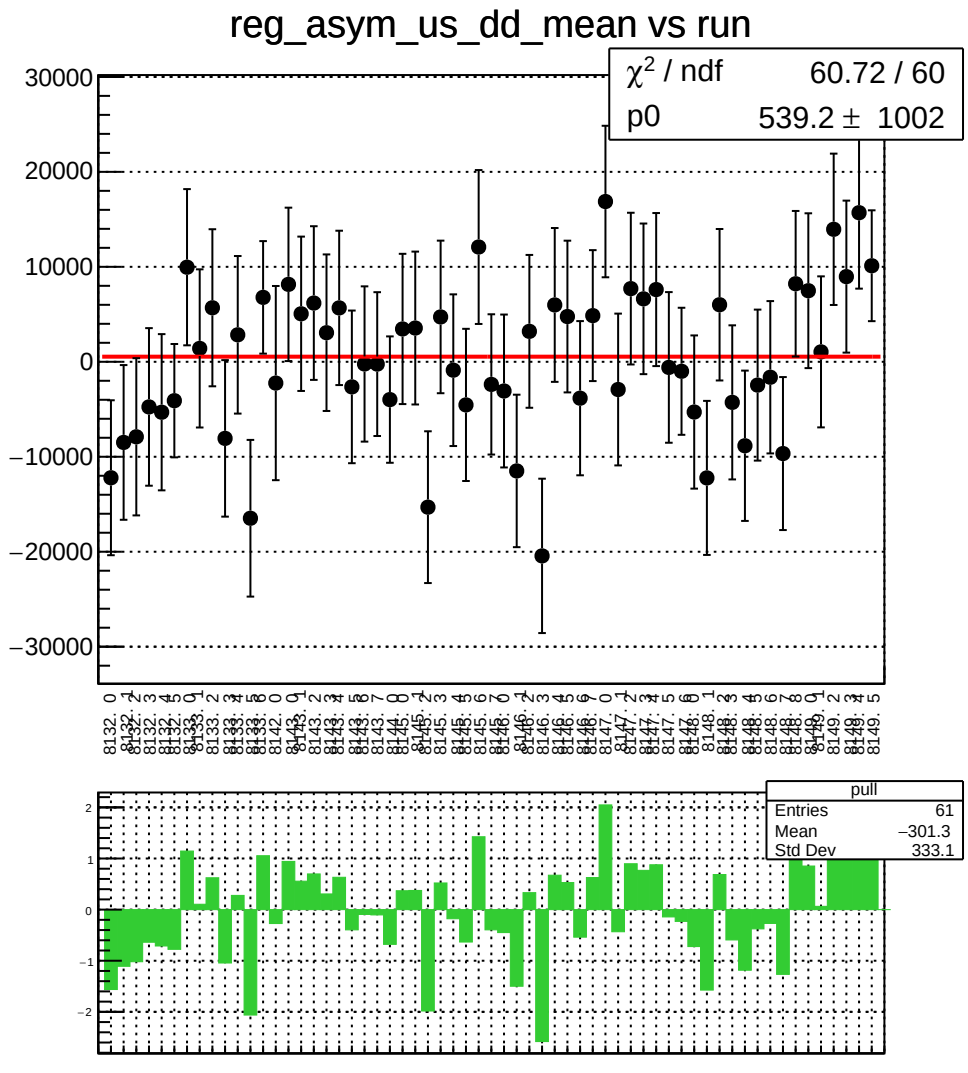

pull1D
Entries 61
Mean −0.002762
Std Dev 1.107

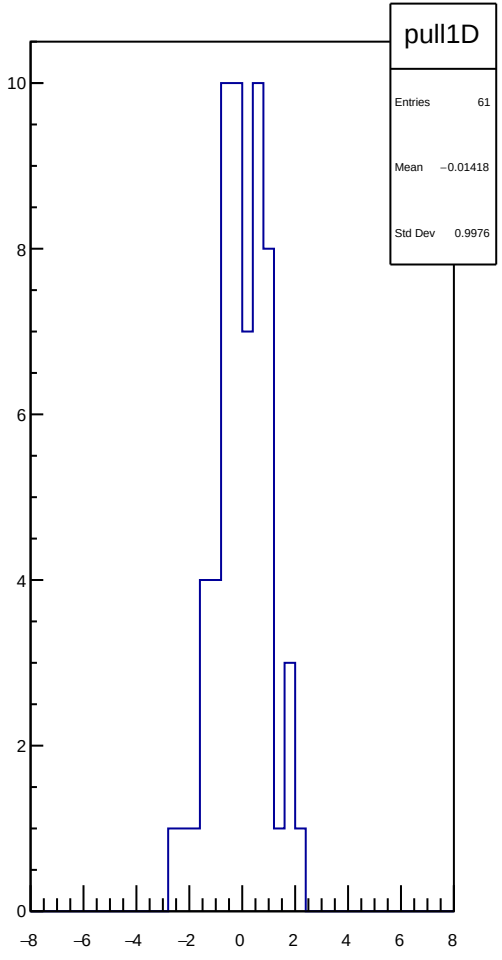

asym_us_avg_correction_rms vs run
χ² / ndf 9006 / 60
p0 1576 ± 1.461
2400
2200
2000
1800
1600
1400

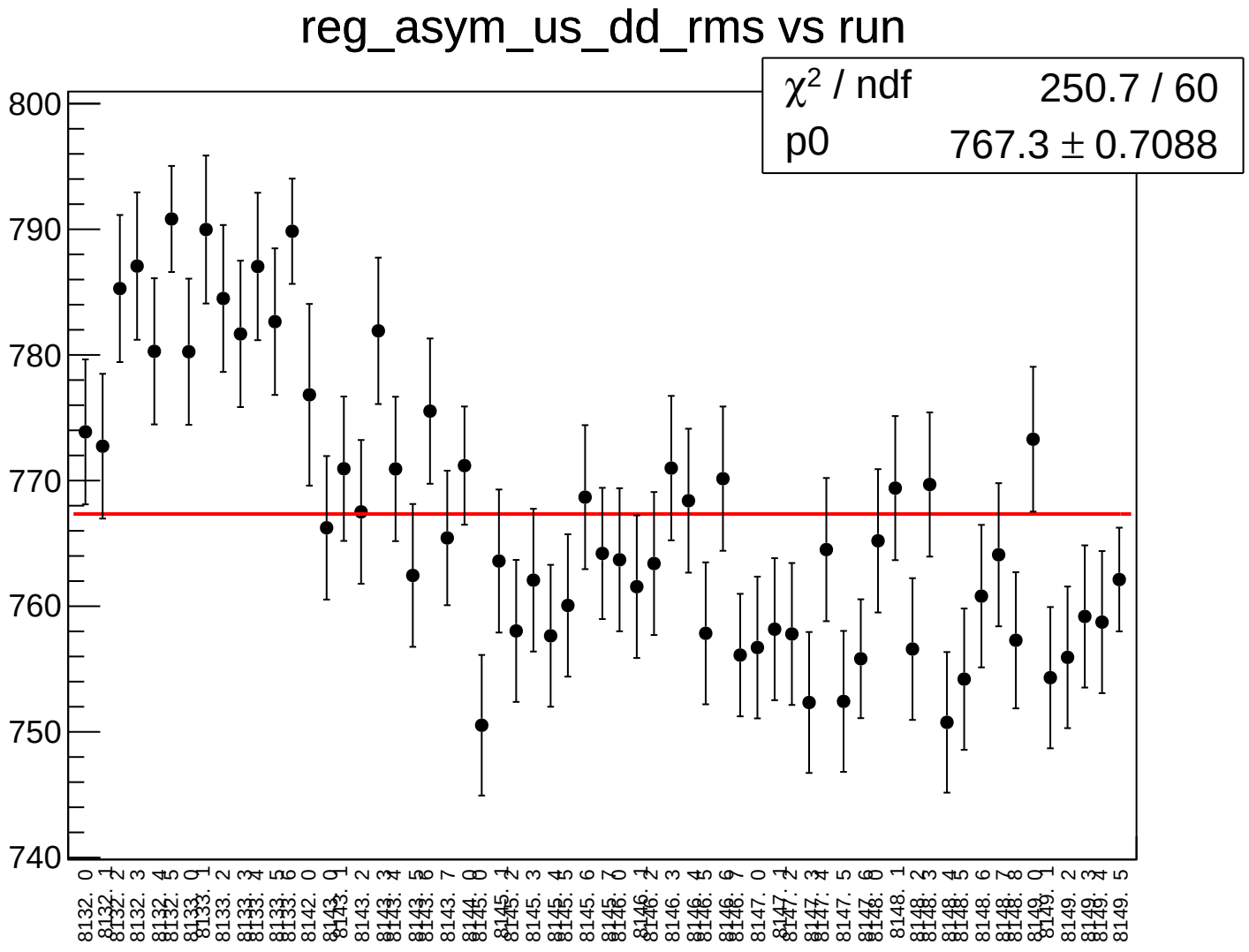

asym_us_avg_mean vs run
χ² / ndf 68.84 / 60
p0 952.2 ± 2304
pull
Entries 61
Mean 329.4
Std Dev 302.7

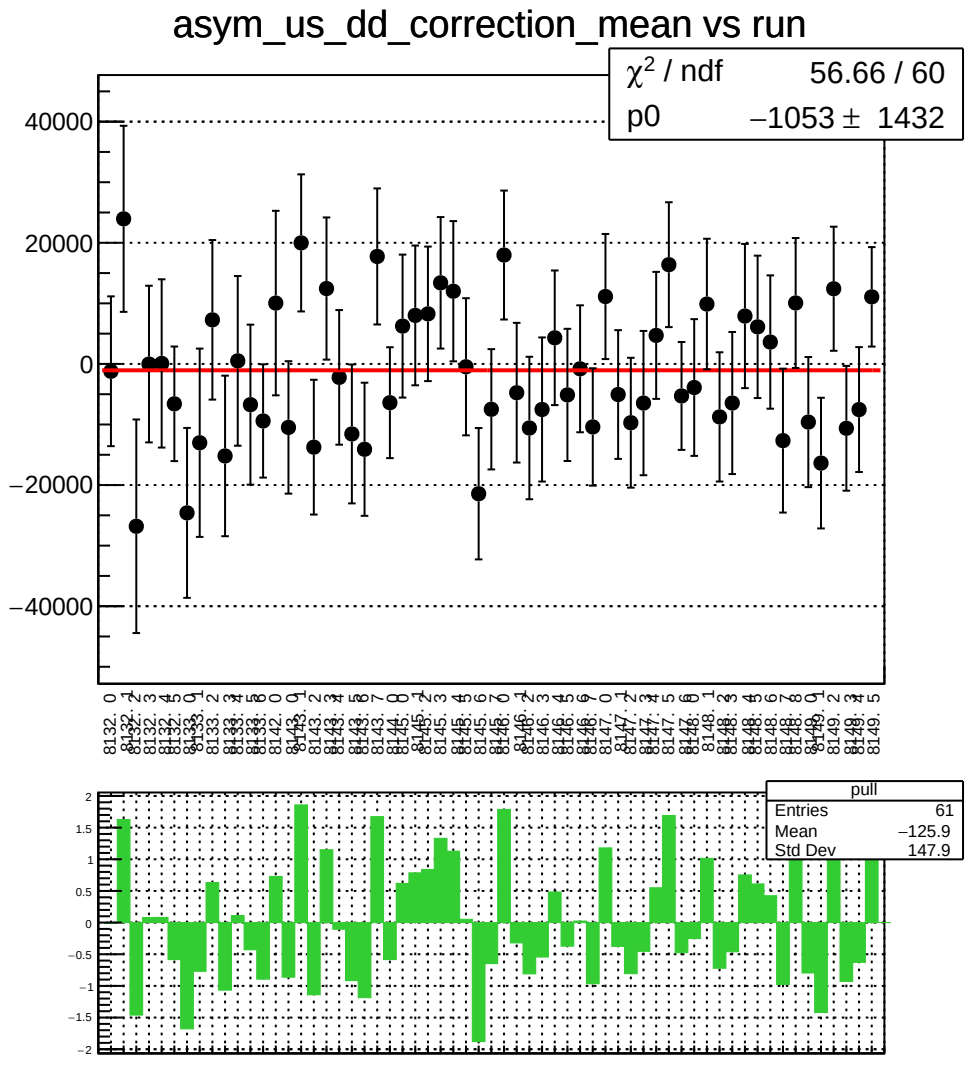

pull1D
Entries 61
Mean 0.006804
Std Dev 1.062

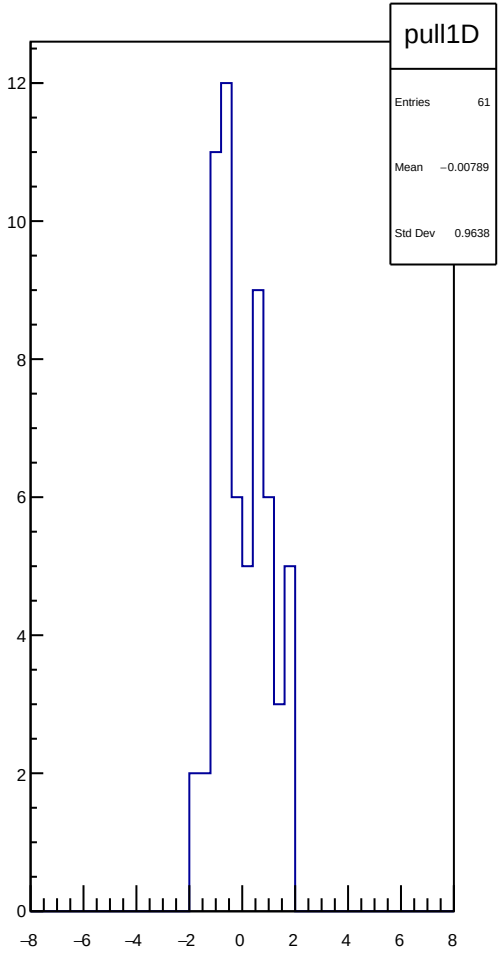

asym_us_avg_rms vs run
χ² / ndf 6540 / 60
p0 1759 ± 1.629
2600
2400
2200
2000
1800
1600

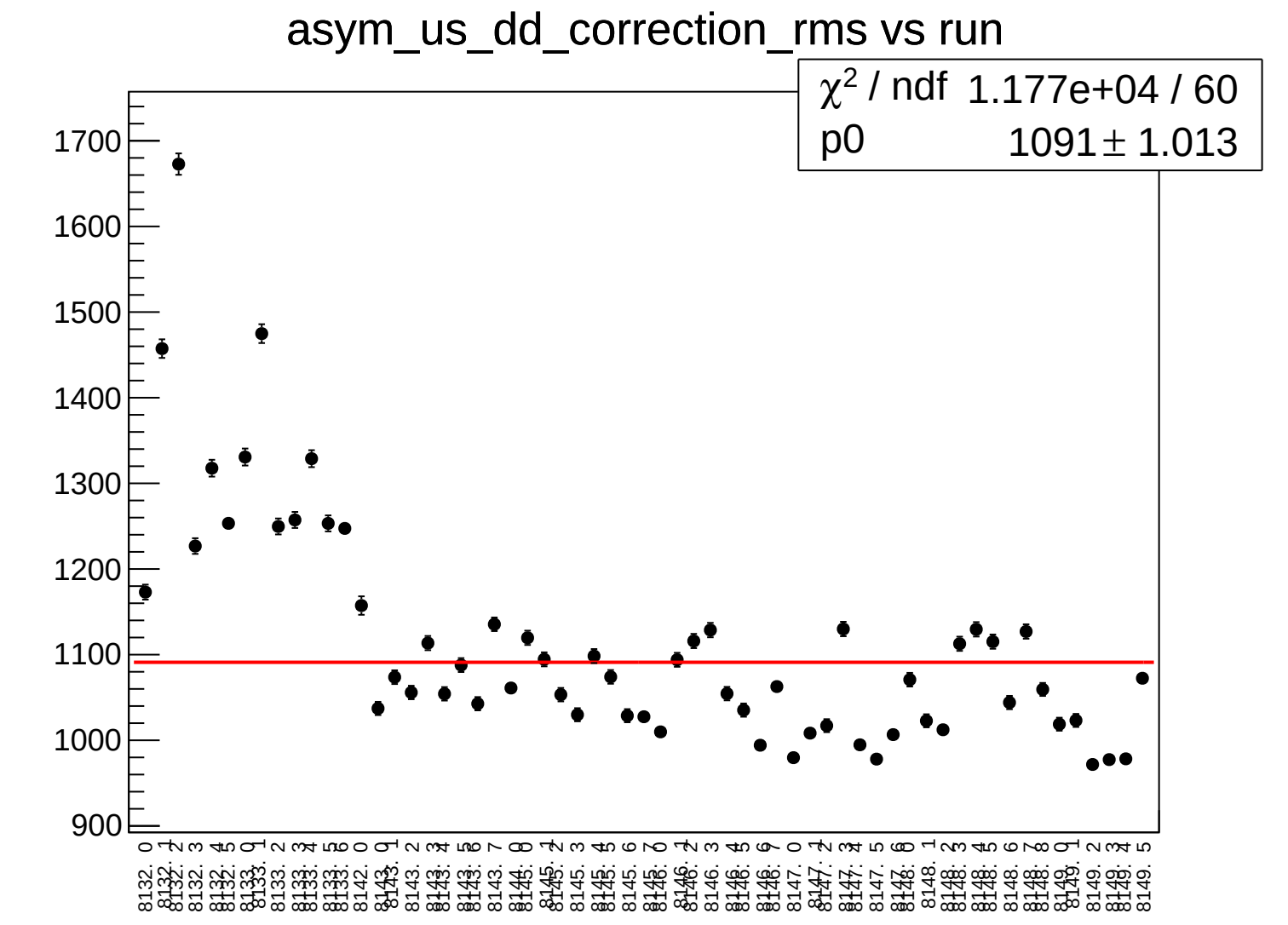

reg_asym_us_dd_mean vs run
χ² / ndf 60.72 / 60
p0 539.2 ± 1002
pull
Entries 61
Mean −301.3
Std Dev 333.1

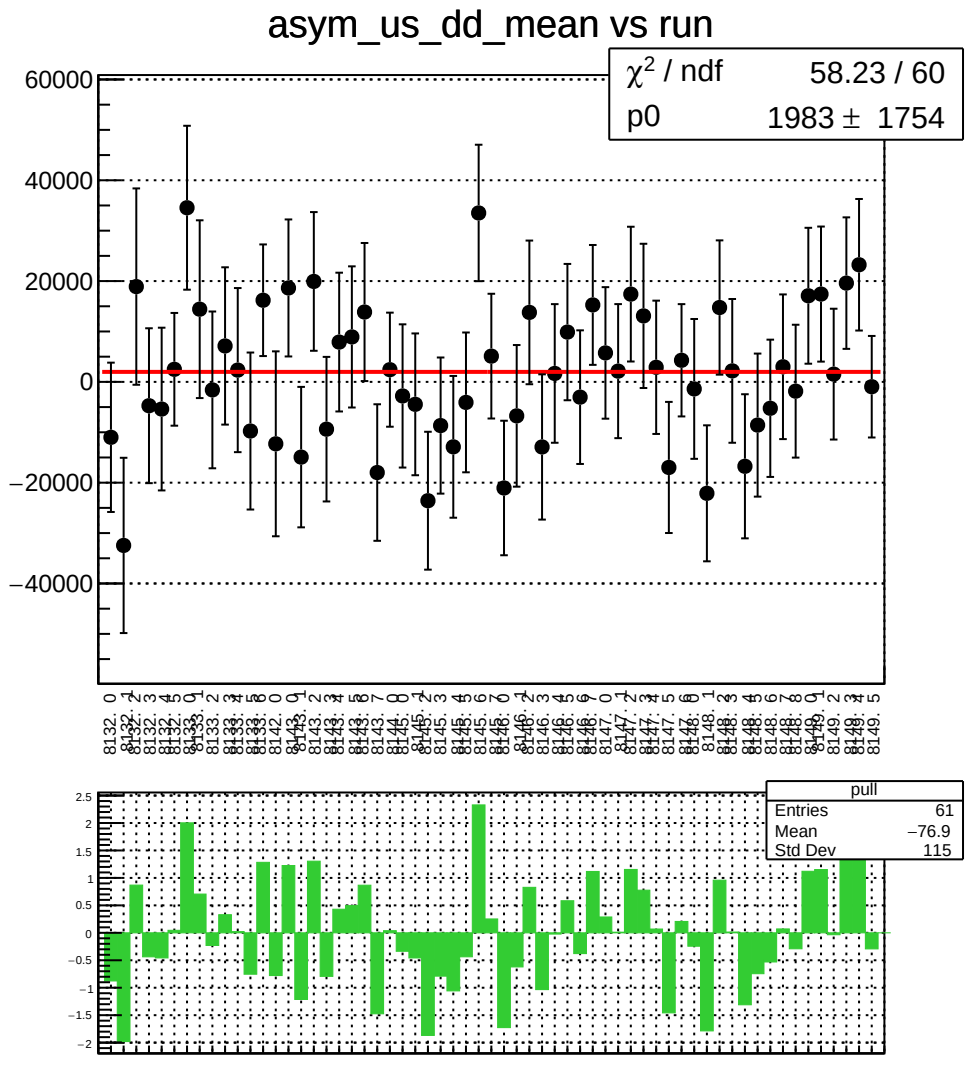

pull1D
Entries 61
Mean −0.01418
Std Dev 0.9976

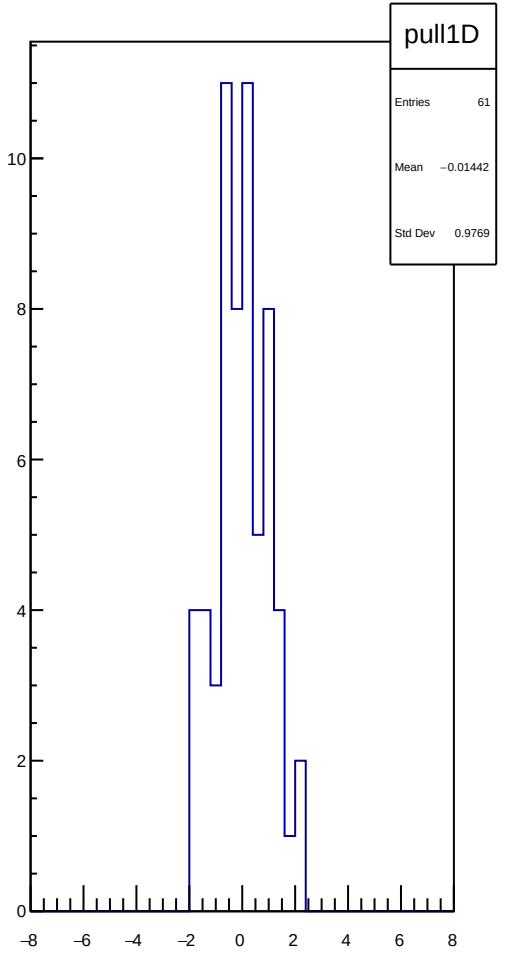

reg_asym_us_dd_rms vs run
χ² / ndf 250.7 / 60
p0 767.3 ± 0.7088
800
790
780
770
760
750
740

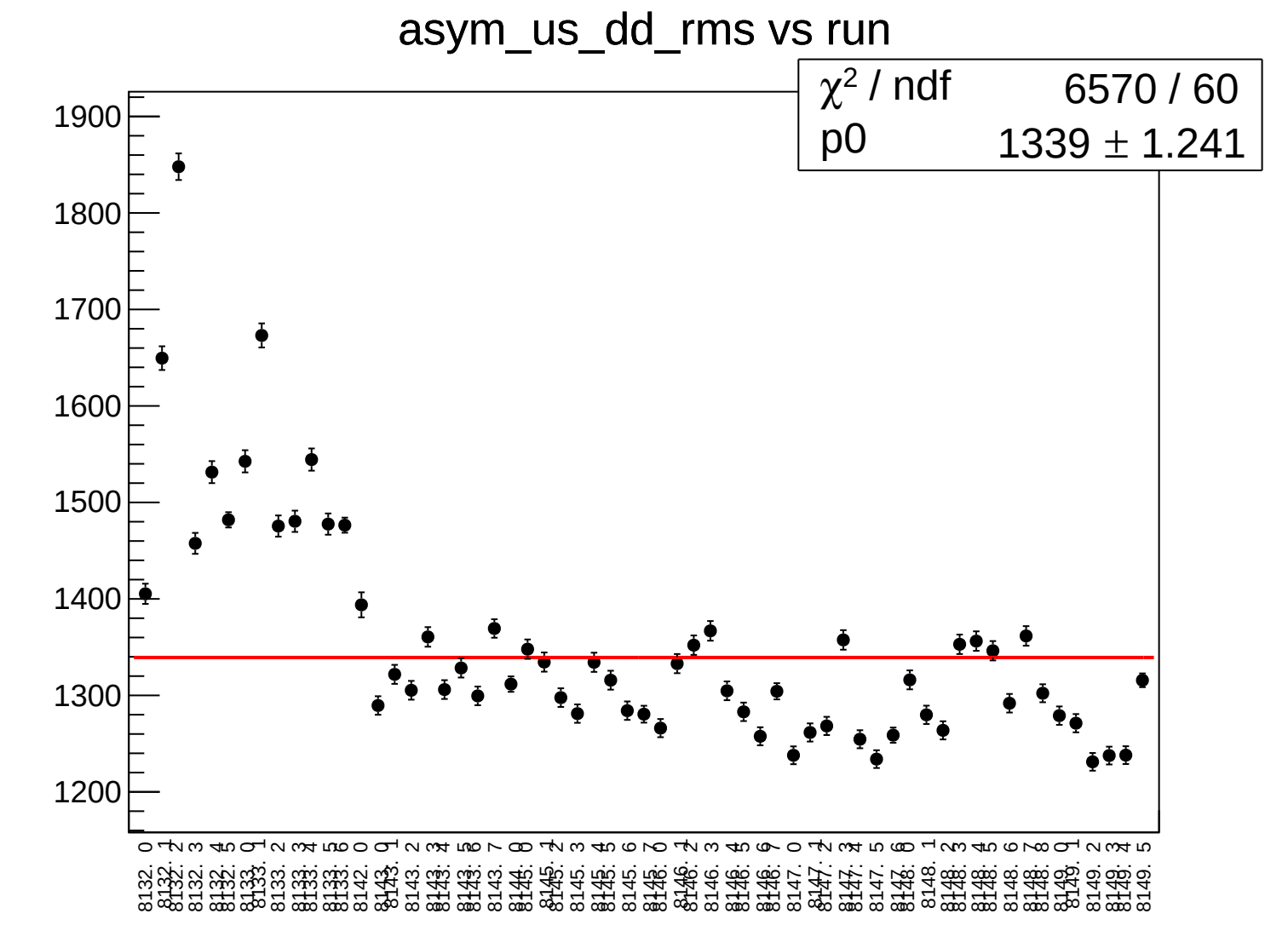

asym_us_dd_correction_mean vs run
χ² / ndf 56.66 / 60
p0 −1053 ± 1432
40000
20000
0
−20000
−40000
pull
Entries 61
Mean −125.9
Std Dev 147.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

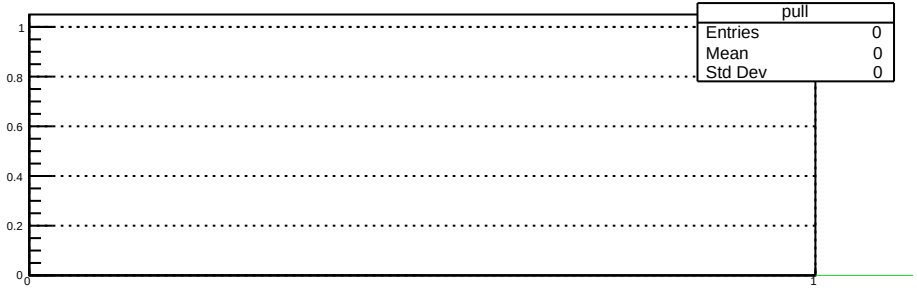

pull1D
Entries 61
Mean −0.00789
Std Dev 0.9638
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

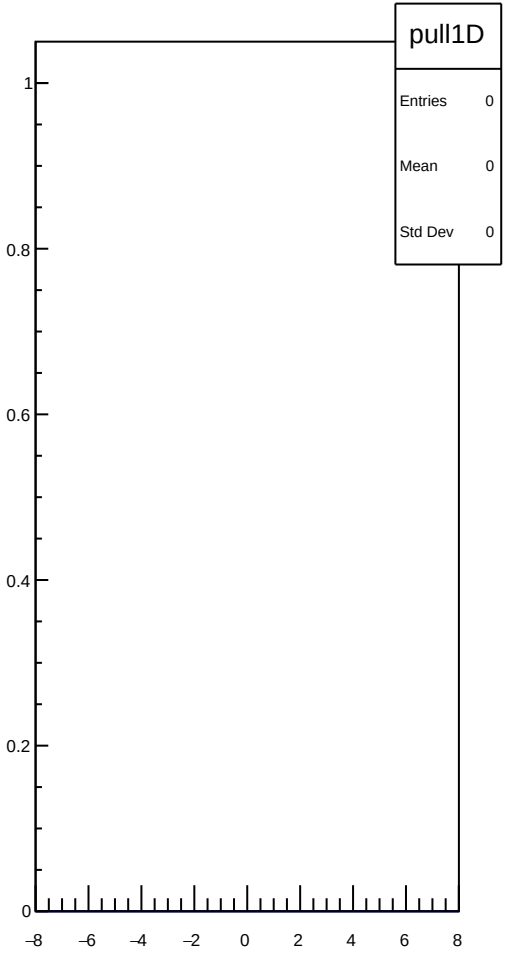

asym_us_dd_correction_rms vs run
χ² / ndf 1.177e+04 / 60
p0 1091 ± 1.013
1700
1600
1500
1400
1300
1200
1100
1000
900

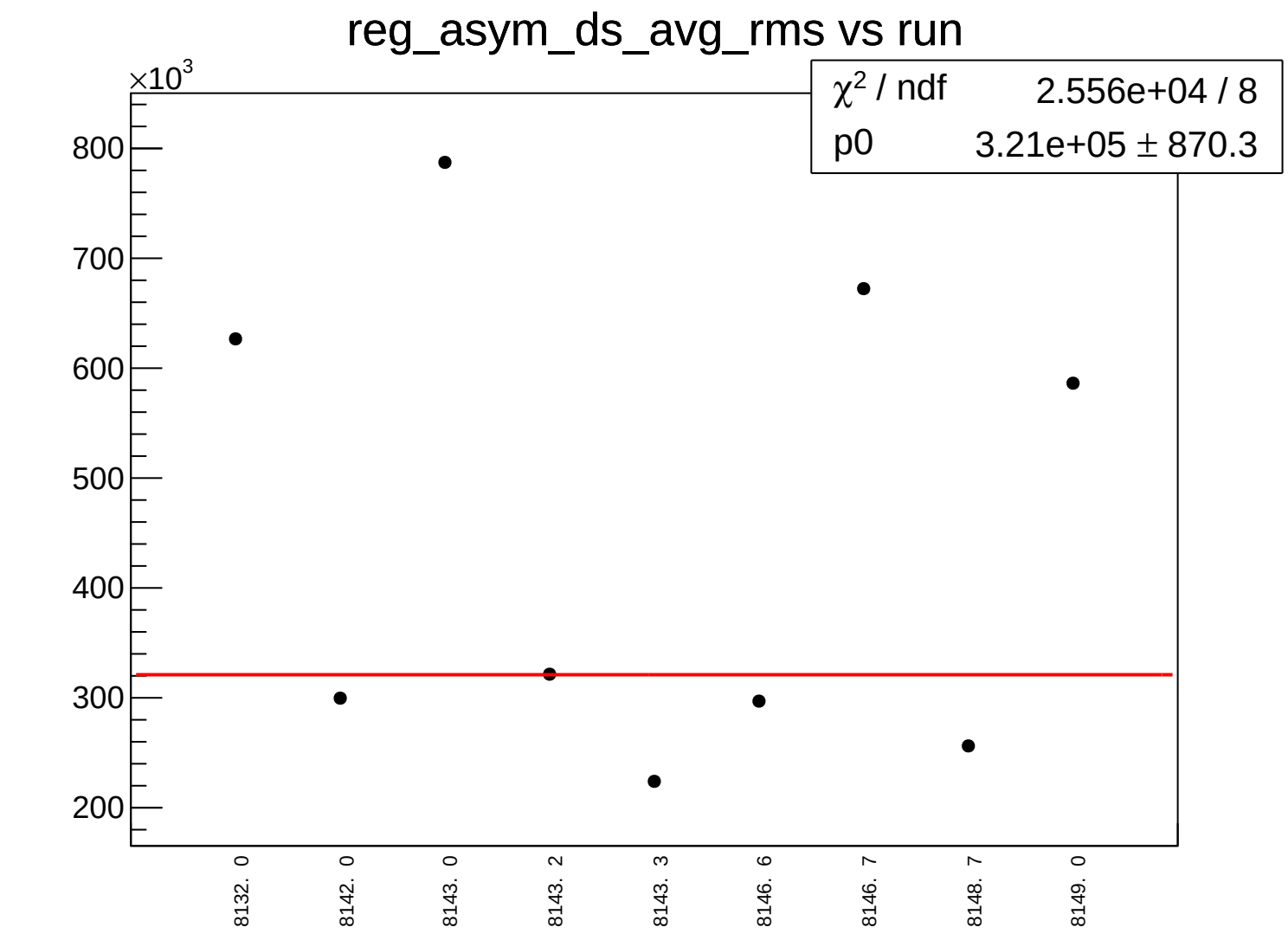

asym_us_dd_mean vs run
χ² / ndf 58.23 / 60
p0 1983 ± 1754
pull
Entries 61
Mean −76.9
Std Dev 115

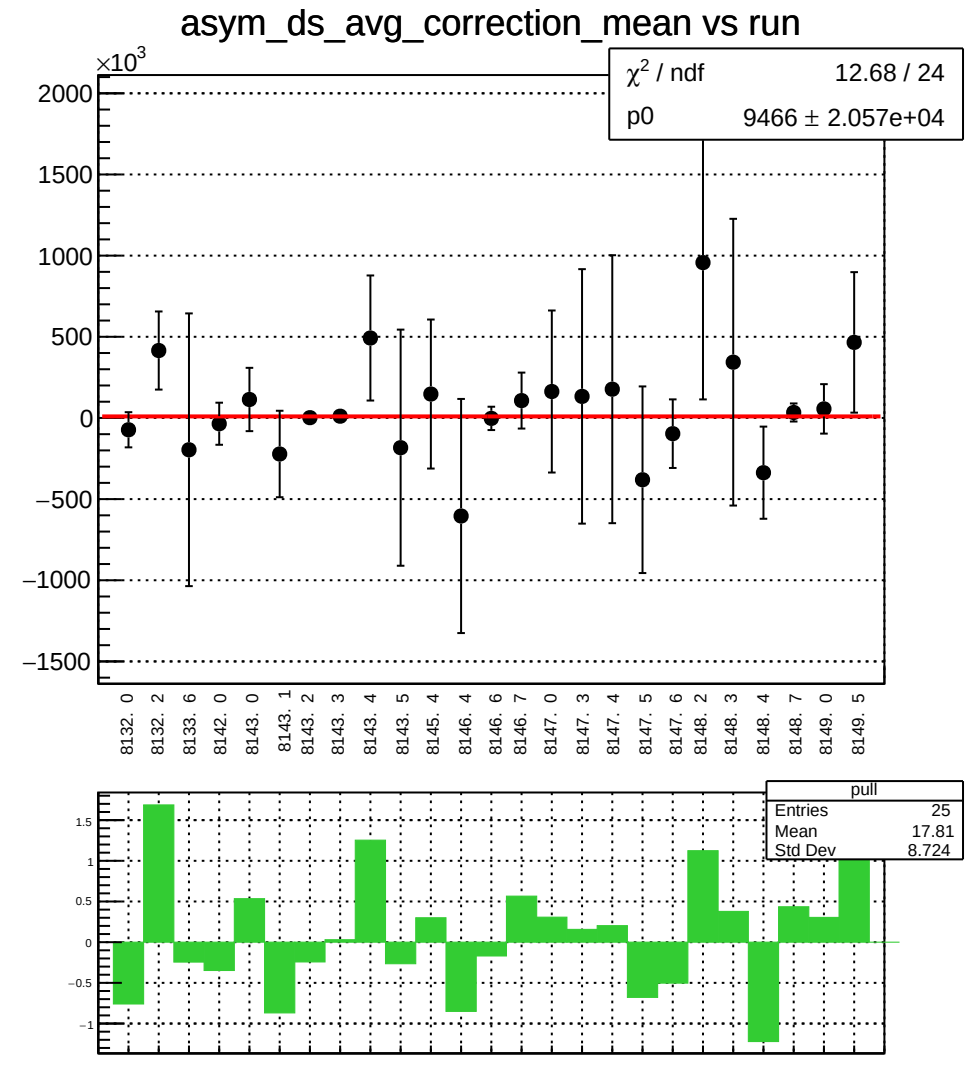

pull1D
Entries 61
Mean −0.01442
Std Dev 0.9769

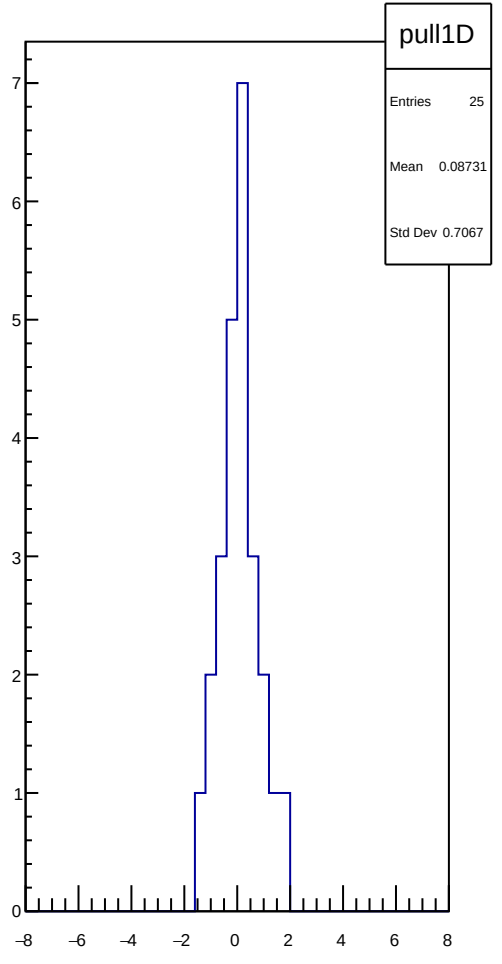

asym_us_dd_rms vs run
χ² / ndf 6570 / 60
p0 1339 ± 1.241
1900
1800
1700
1600
1500
1400
1300
1200

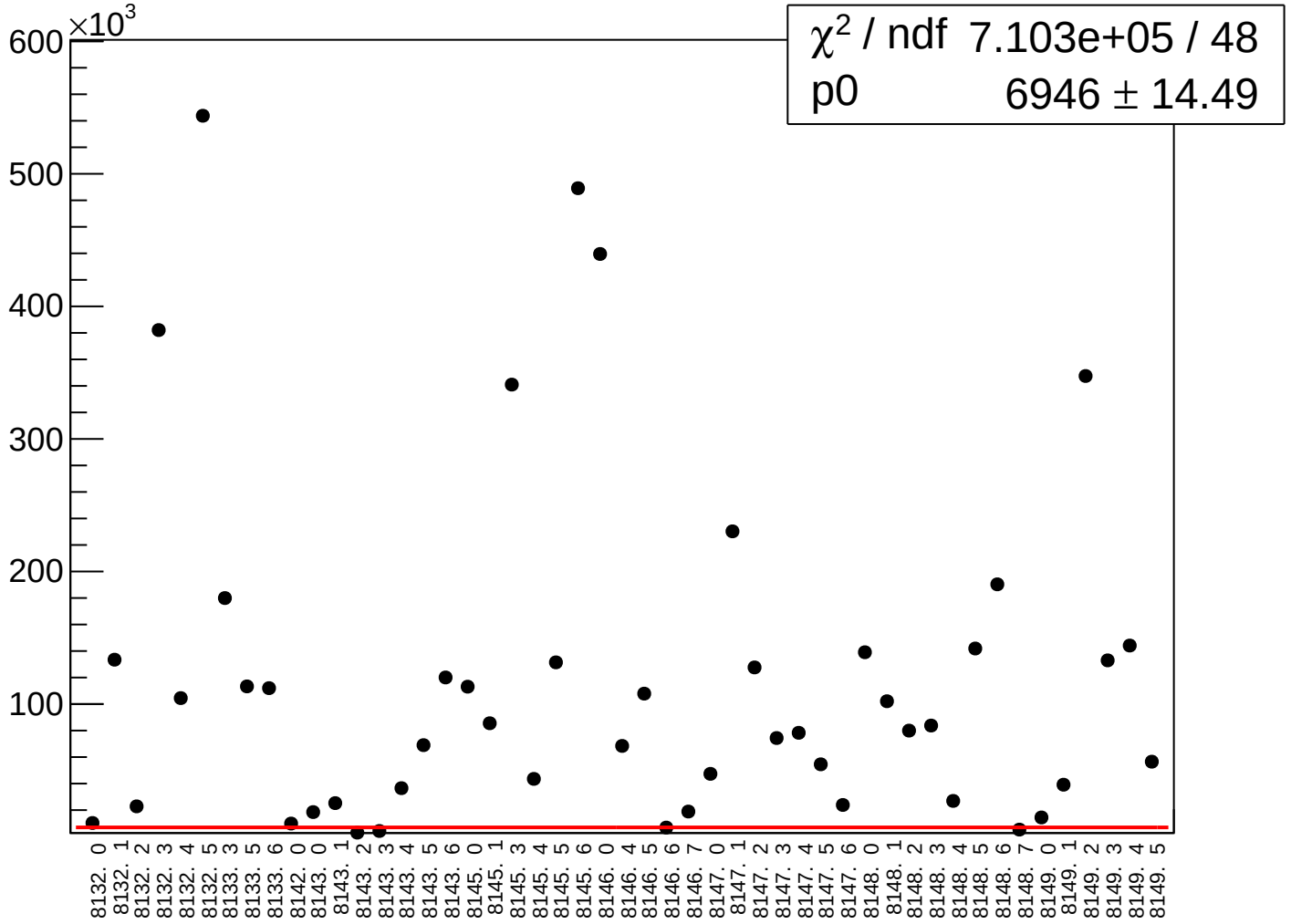

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

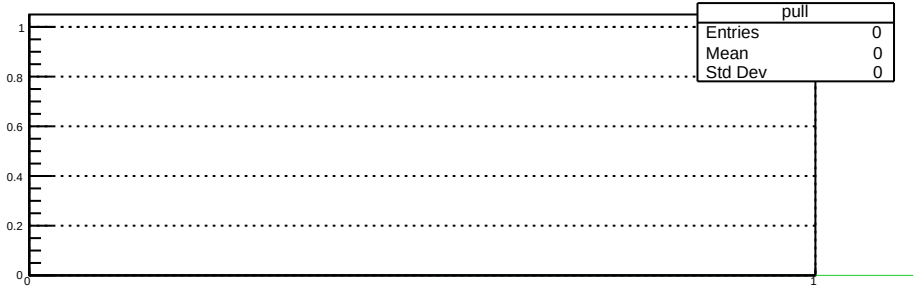

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

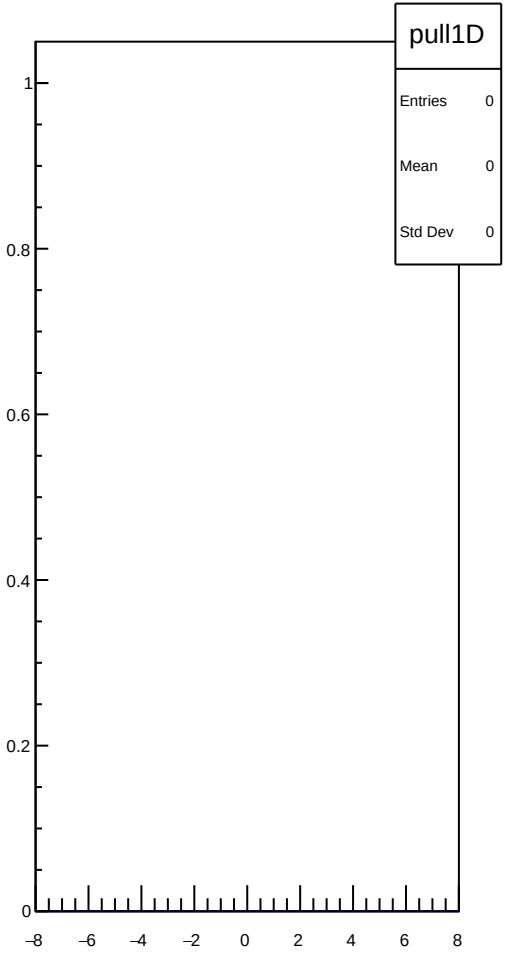

reg_asym_ds_avg_rms vs run
×10^3
800
700
600
500
400
300
200
χ² / ndf 2.556e+04 / 8
p0 3.21e+05 ± 870.3
8132. 0
8142. 0
8143. 0
8143. 2
8143. 3
8146. 6
8146. 7
8148. 7
8149. 0

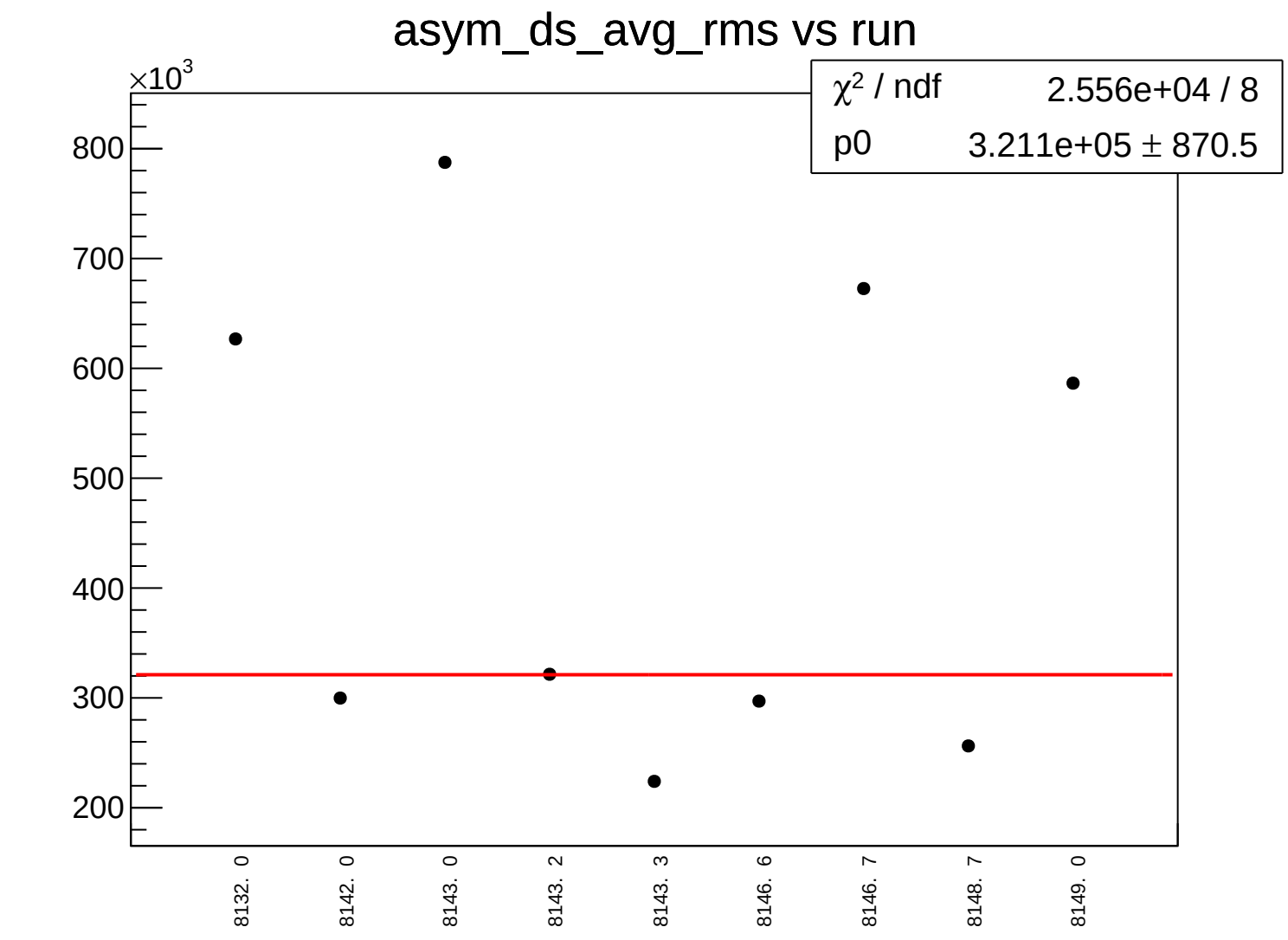

asym_ds_avg_correction_mean vs run
×10^3
χ² / ndf 12.68 / 24
p0 9466 ± 2.057e+04
2000
1500
1000
500
0
−500
−1000
−1500
8132. 0
8132. 2
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8145. 4
8146. 4
8146. 6
8146. 7
8147. 0
8147. 3
8147. 4
8147. 5
8147. 6
8148. 2
8148. 3
8148. 4
8148. 7
8149. 0
8149. 5
pull
Entries 25
Mean 17.81
Std Dev 8.724
1.5
1
0.5
0
−0.5
−1

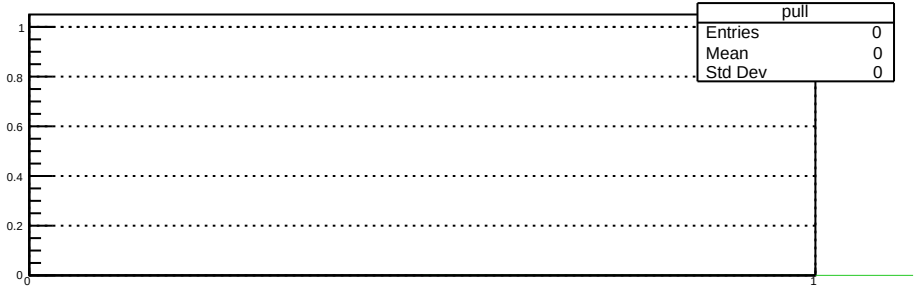

pull1D
Entries 25
Mean 0.08731
Std Dev 0.7067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

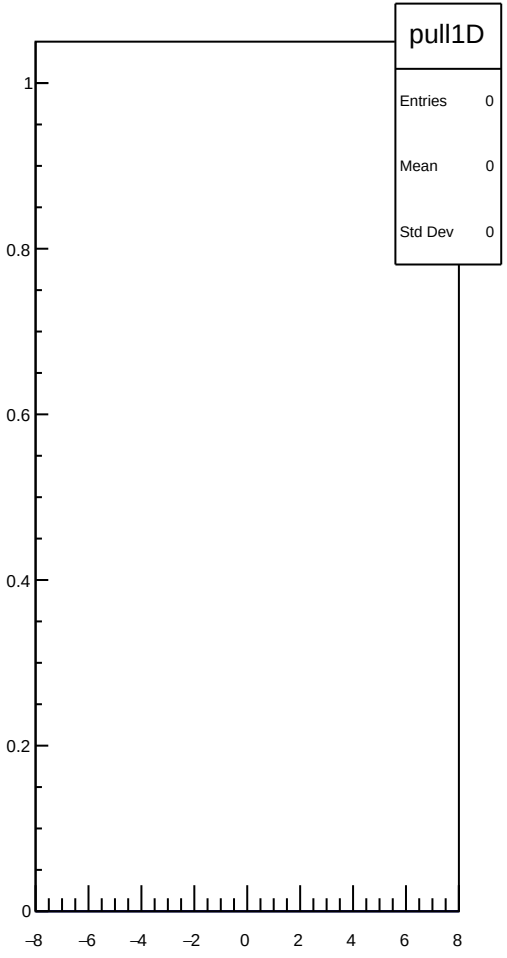

asym_ds_avg_correction_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 7.103e+05 / 48
p0 6946 ± 14.49
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 3
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8145. 0
8145. 1
8145. 3
8145. 4
8145. 5
8145. 6
8146. 0
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

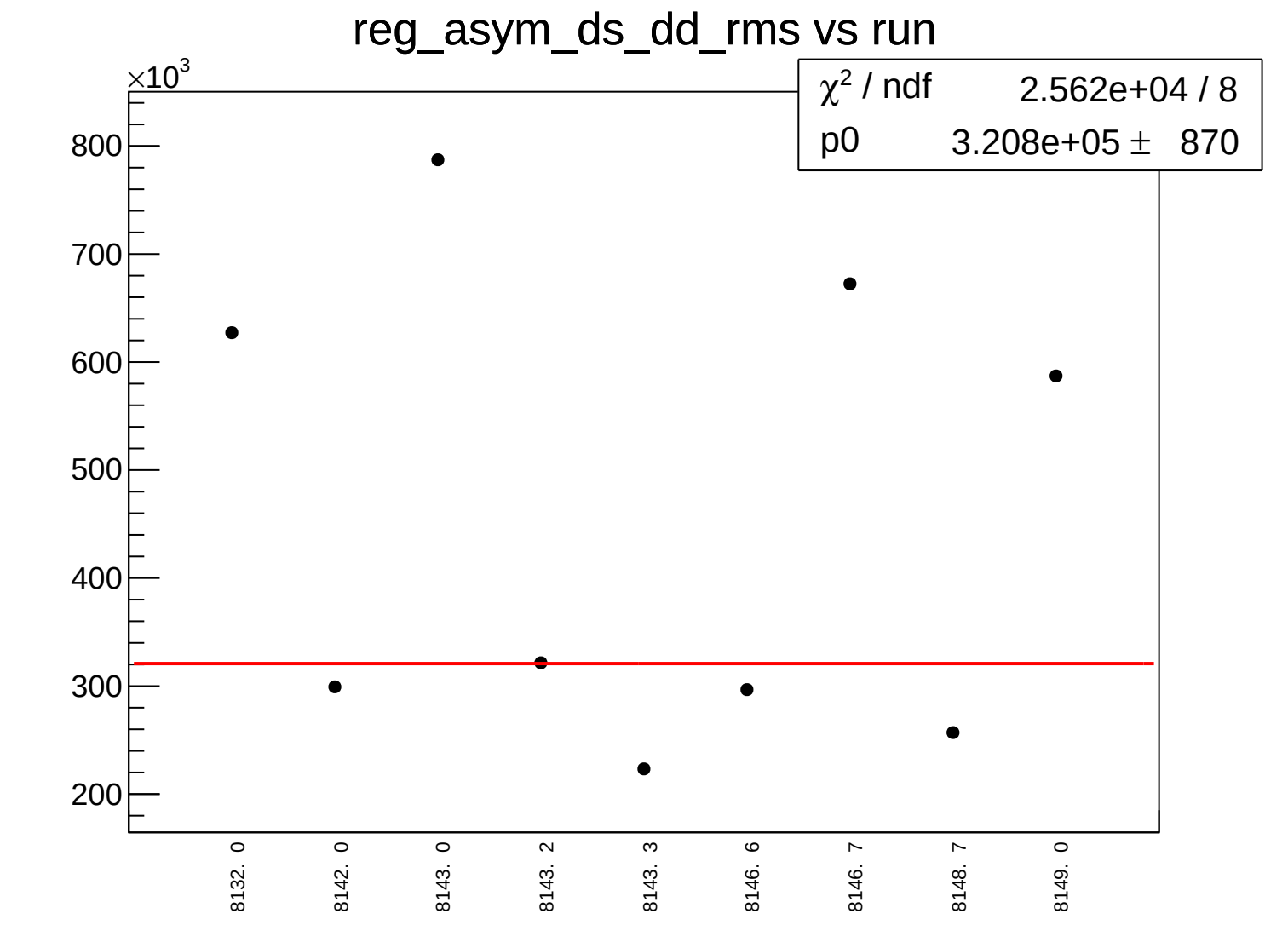

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

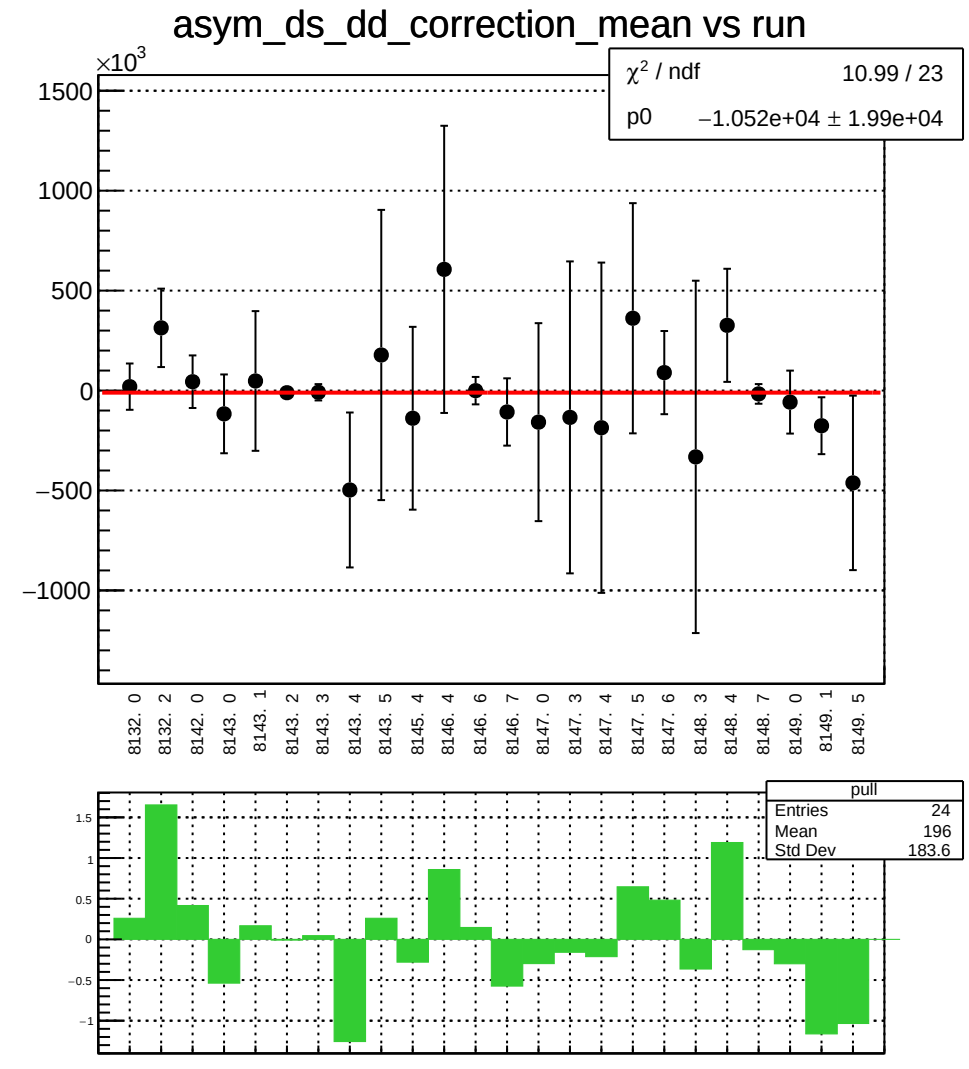

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

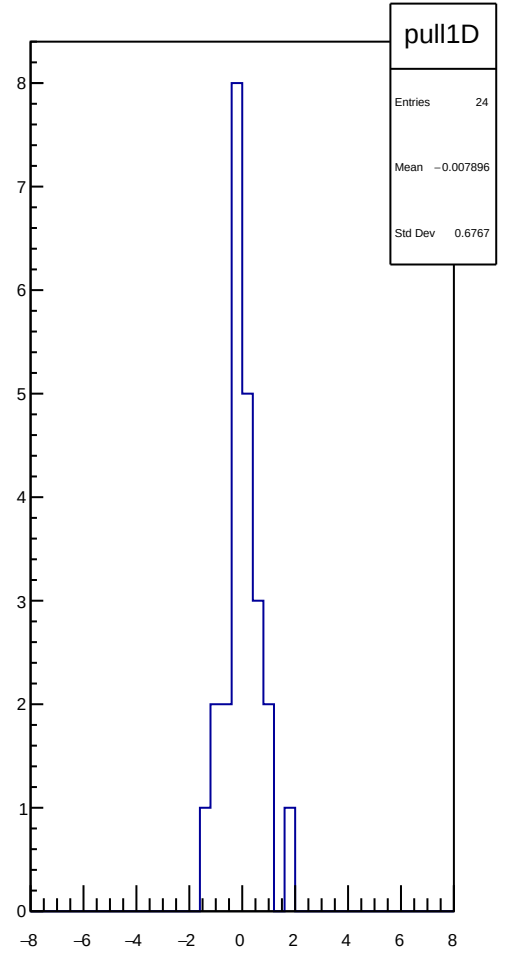

asym_ds_avg_rms vs run
×10^3
800
700
600
500
400
300
200
χ² / ndf 2.556e+04 / 8
p0 3.211e+05 ± 870.5
8132. 0
8142. 0
8143. 0
8143. 2
8143. 3
8146. 6
8146. 7
8148. 7
8149. 0

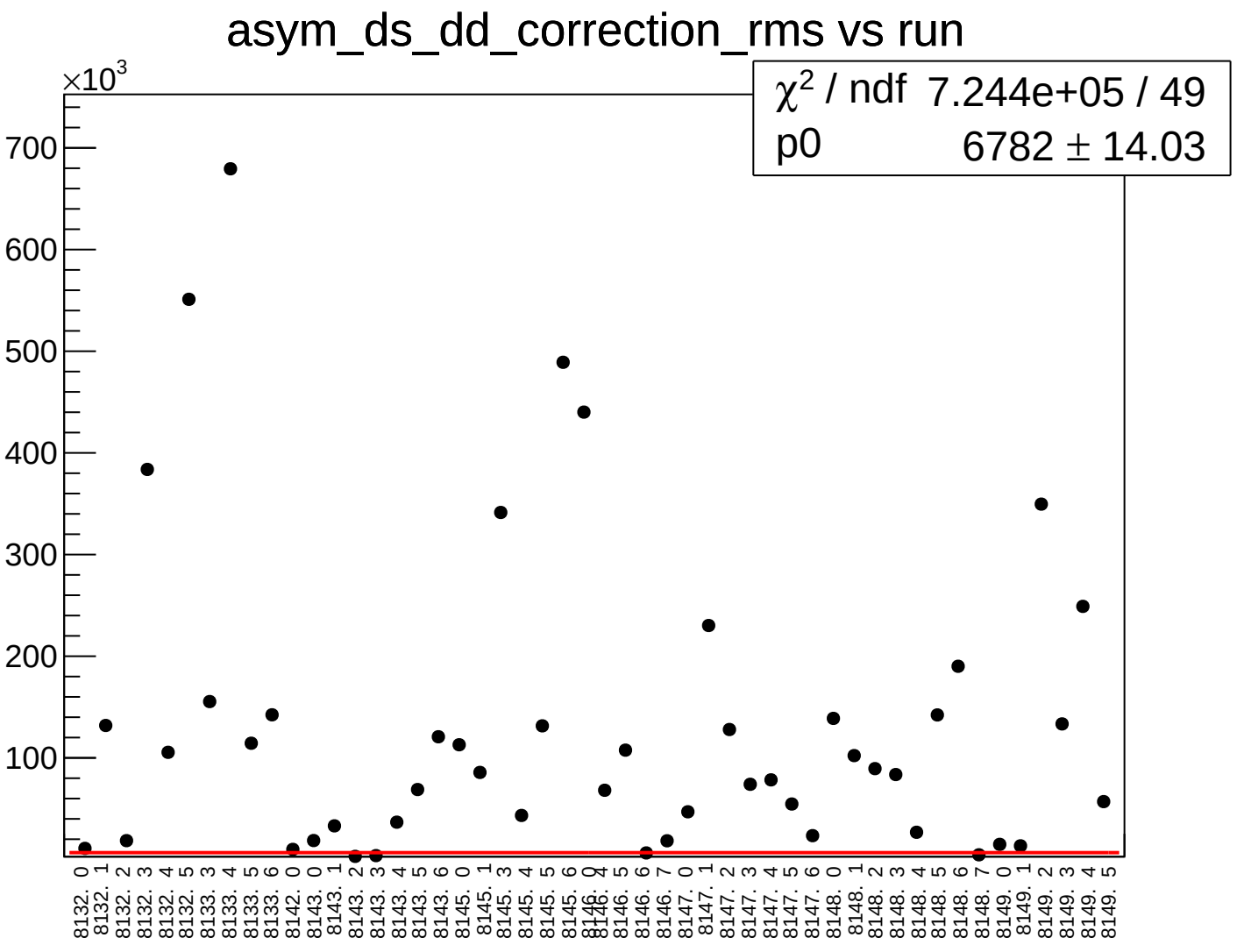

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

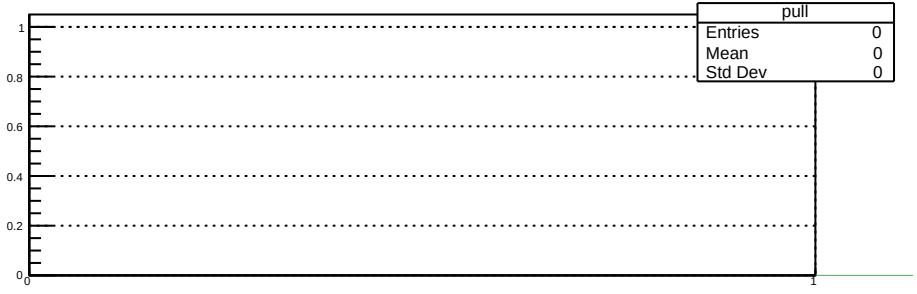

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

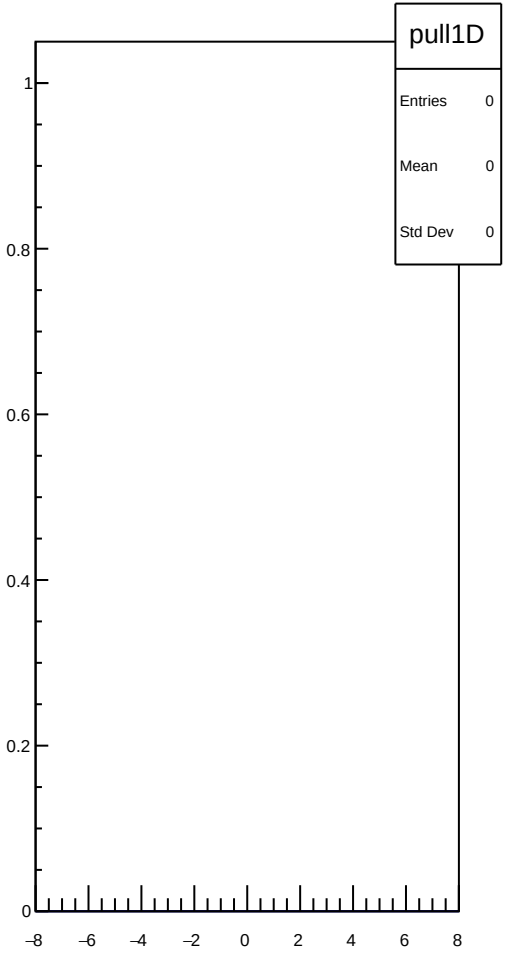

reg_asym_ds_dd_rms vs run
×10^3
800
700
600
500
400
300
200
χ² / ndf 2.562e+04 / 8
p0 3.208e+05 ± 870
8132. 0
8142. 0
8143. 0
8143. 2
8143. 3
8146. 6
8146. 7
8148. 7
8149. 0

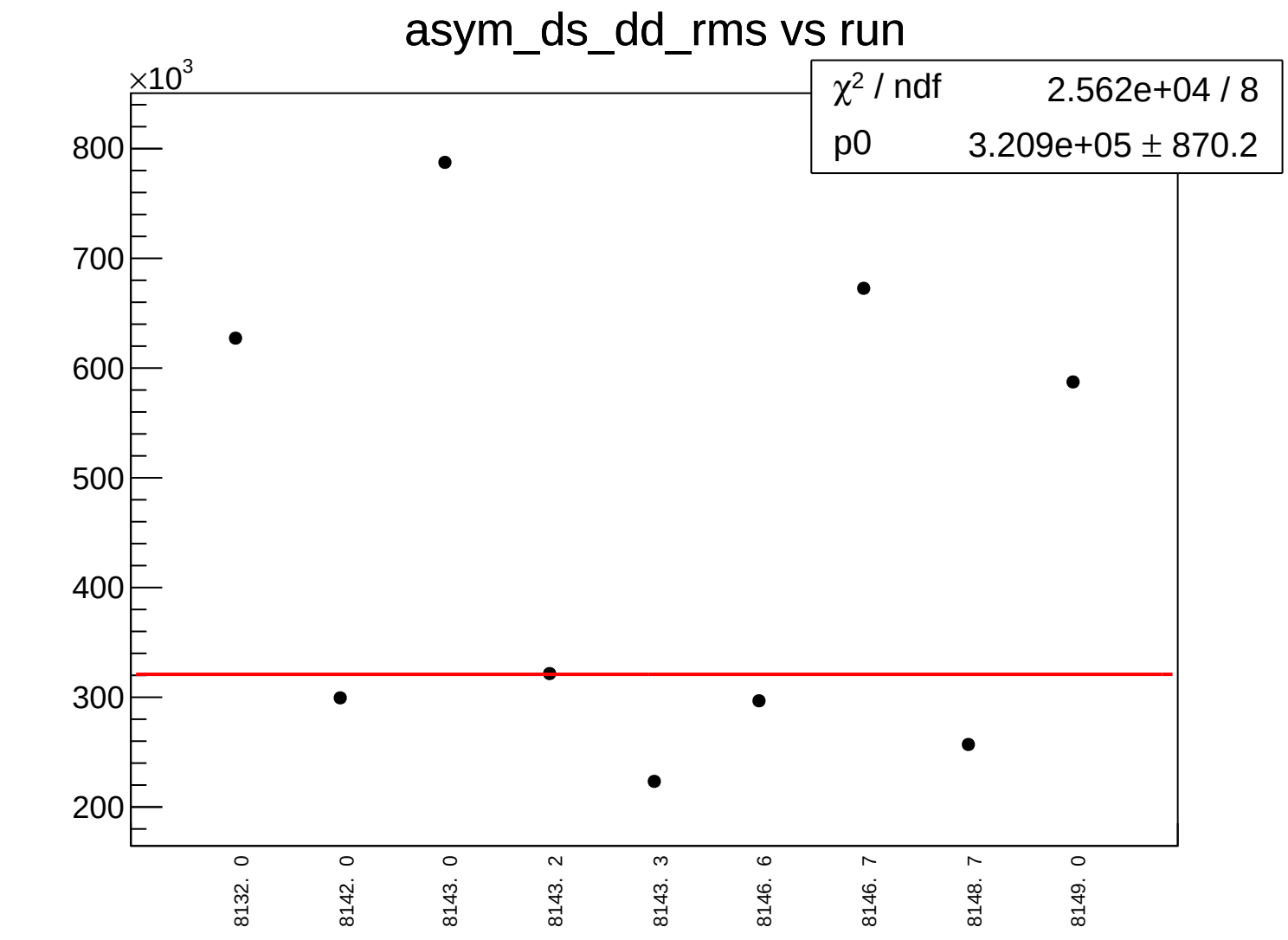

asym_ds_dd_correction_mean vs run
×10^3
χ² / ndf 10.99 / 23
p0 −1.052e+04 ± 1.99e+04
1500
1000
500
0
−500
−1000
8132. 0
8132. 2
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8145. 4
8146. 4
8146. 6
8146. 7
8147. 0
8147. 3
8147. 4
8147. 5
8147. 6
8148. 3
8148. 4
8148. 7
8149. 0
8149. 1
8149. 5
pull
Entries 24
Mean 196
Std Dev 183.6
1.5
1
0.5
0
−0.5
−1

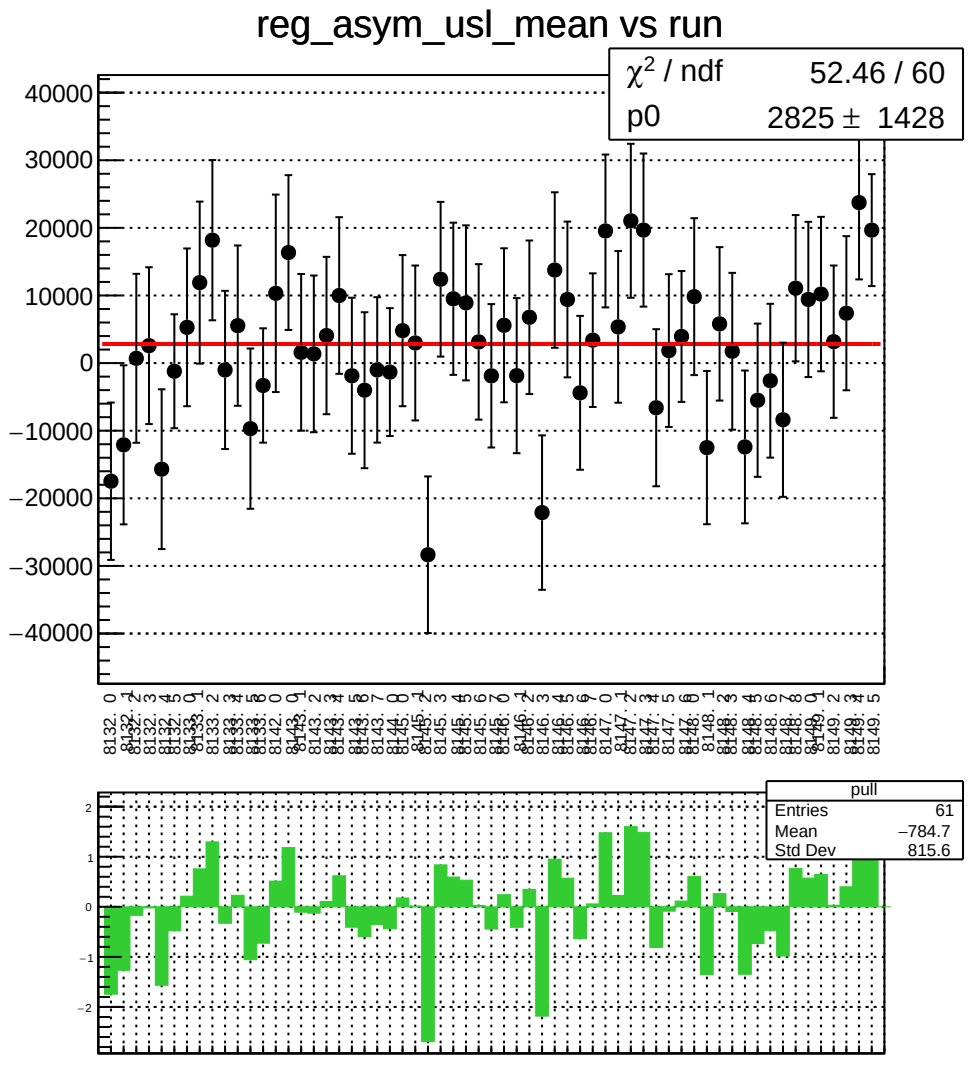

pull1D
Entries 24
Mean −0.007896
Std Dev 0.6767
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

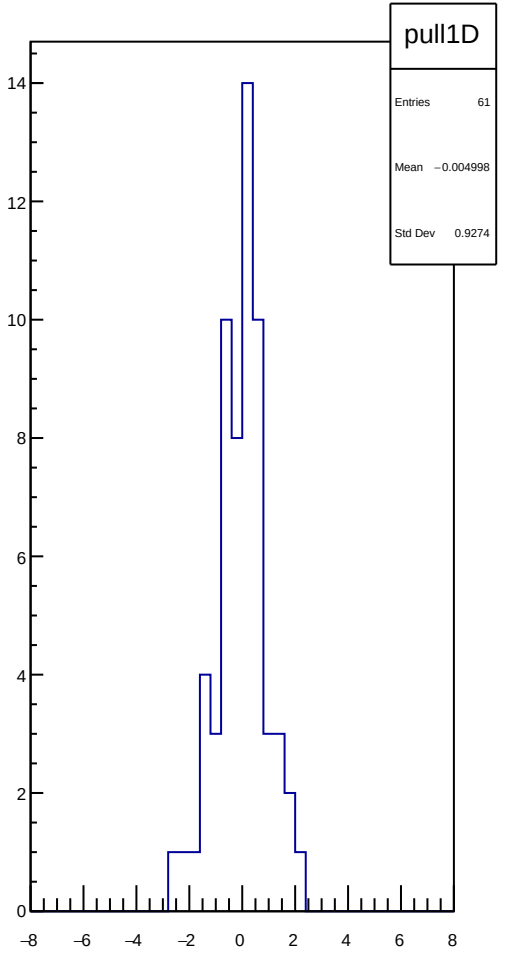

asym_ds_dd_correction_rms vs run
×10^3
χ^2 / ndf 7.244e+05 / 49
p0 6782 ± 14.03
700
600
500
400
300
200
100
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 3
8133. 4
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8145. 0
8145. 1
8145. 3
8145. 4
8145. 5
8145. 6
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

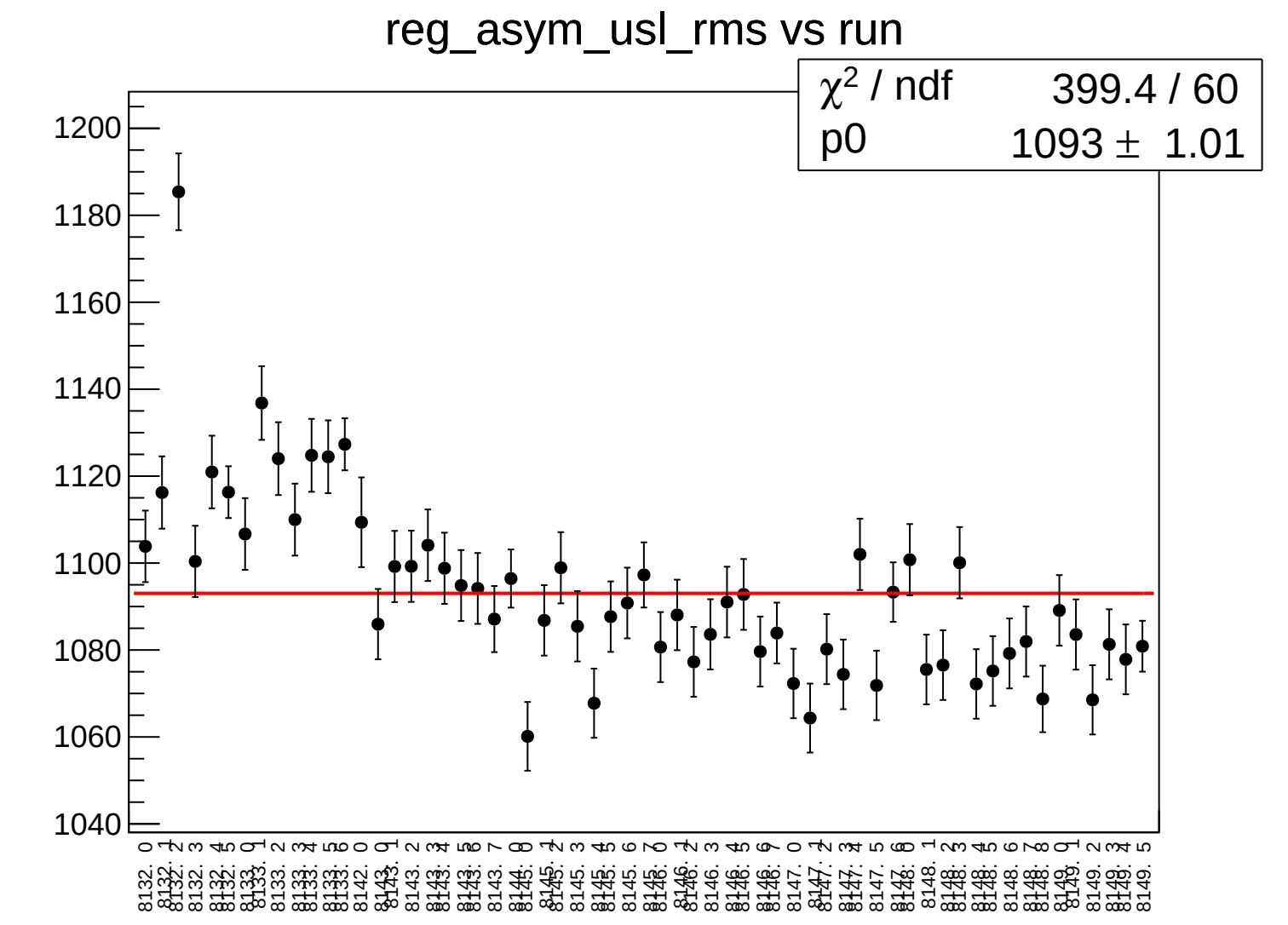

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

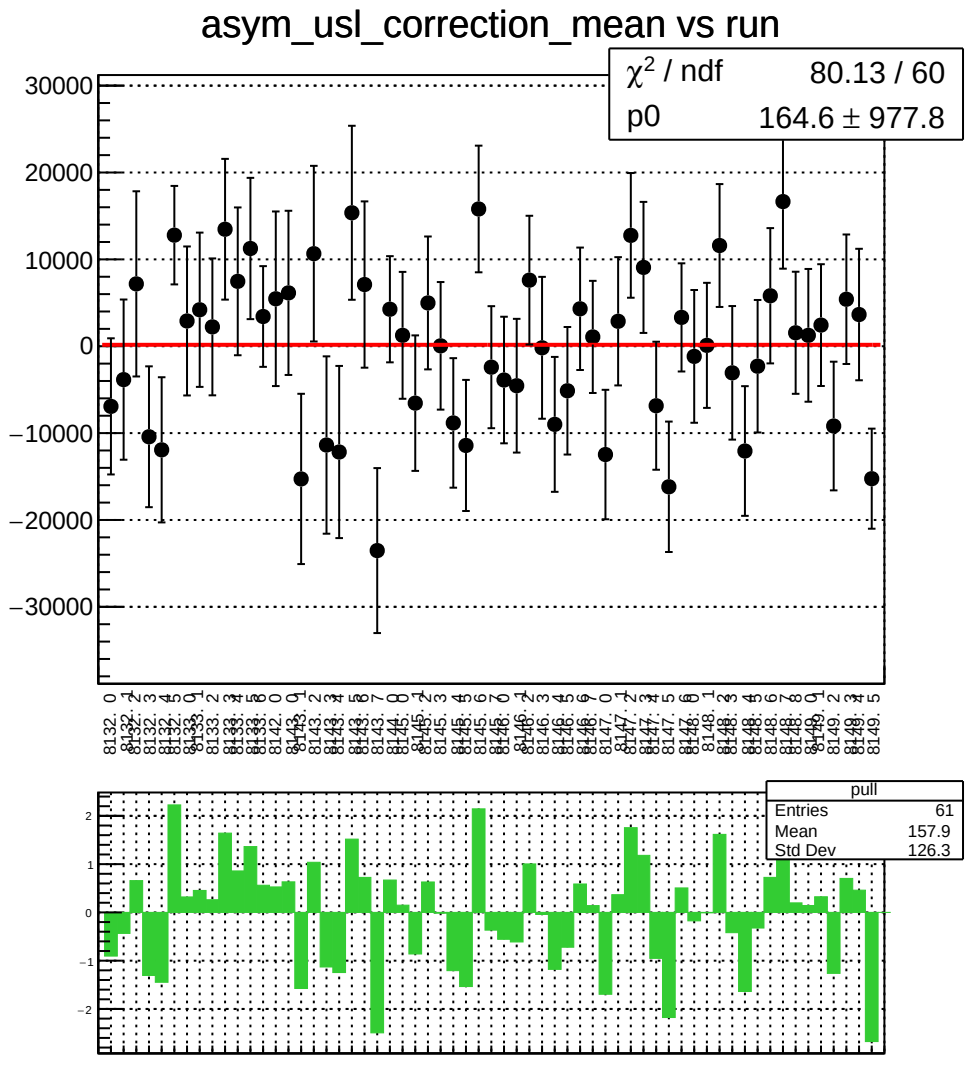

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

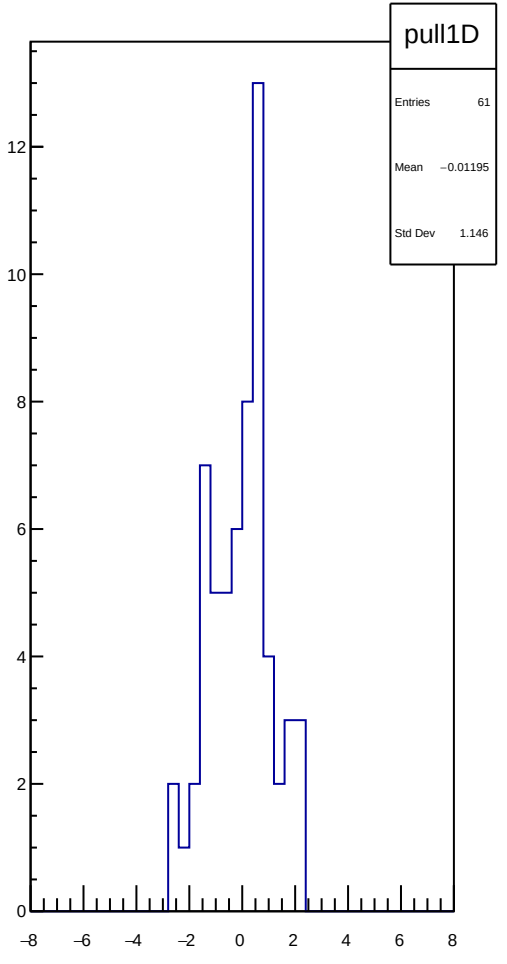

asym_ds_dd_rms vs run
×10^3
800
700
600
500
400
300
200
χ² / ndf 2.562e+04 / 8
p0 3.209e+05 ± 870.2
8132. 0
8142. 0
8143. 0
8143. 2
8143. 3
8146. 6
8146. 7
8148. 7
8149. 0

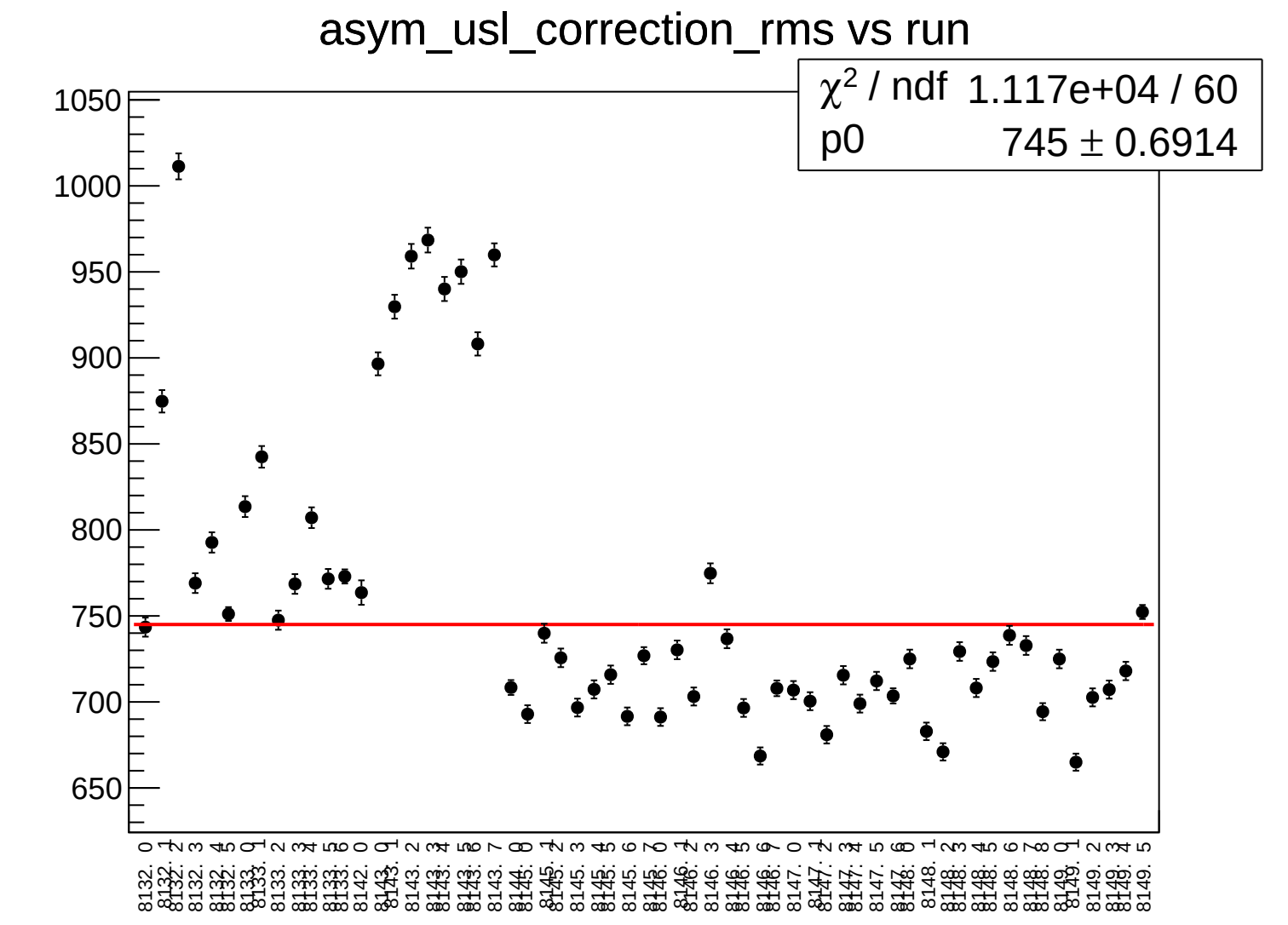

reg_asym_usl_mean vs run
χ² / ndf 52.46 / 60
p0 2825 ± 1428
pull
Entries 61
Mean −784.7
Std Dev 815.6

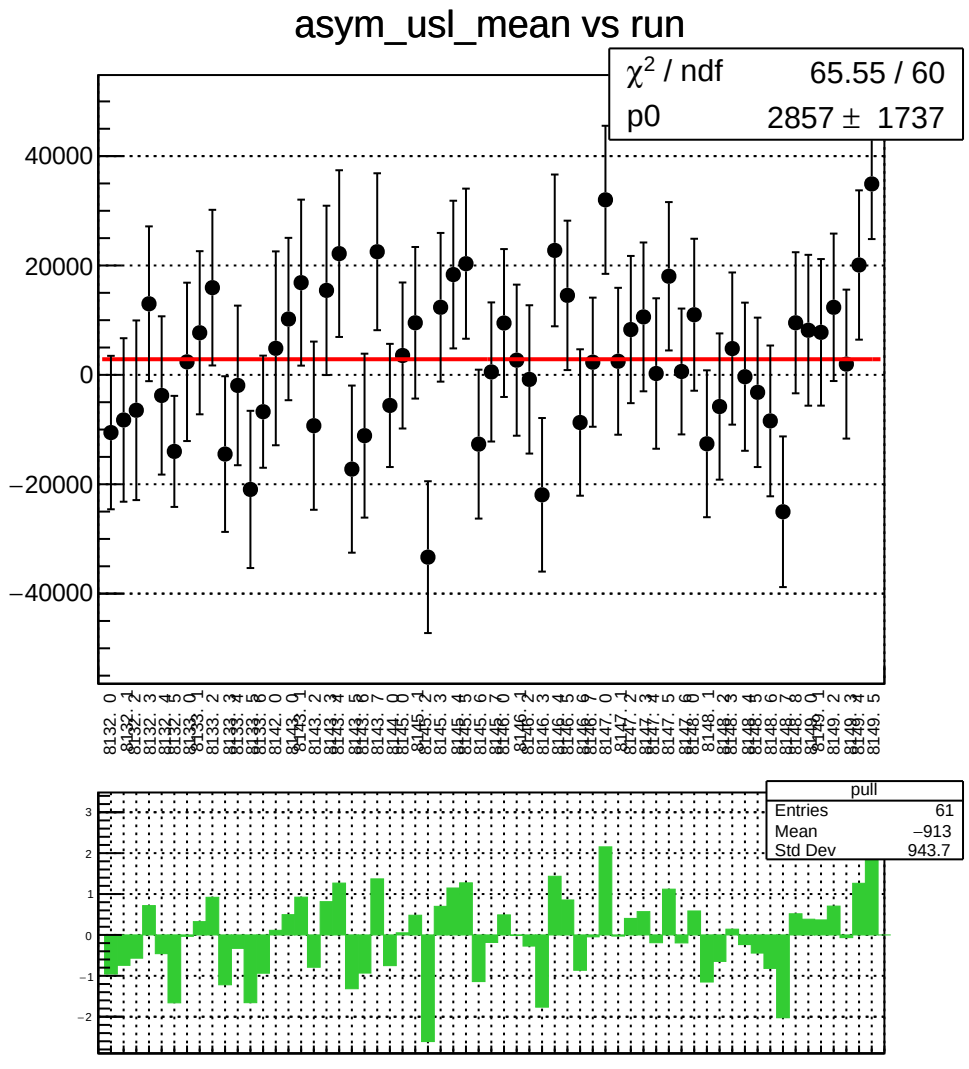

pull1D
Entries 61
Mean −0.004998
Std Dev 0.9274

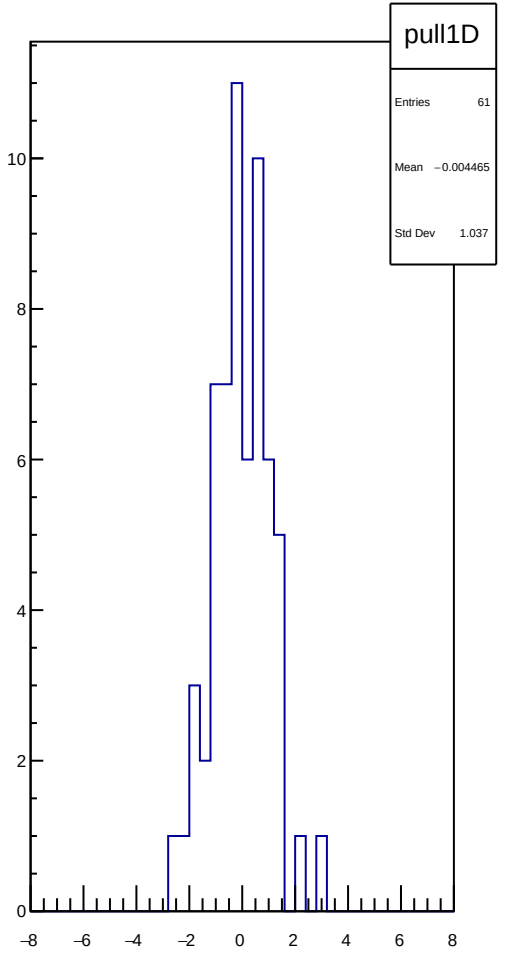

reg_asym_usl_rms vs run
χ² / ndf 399.4 / 60
p0 1093 ± 1.01
1200
1180
1160
1140
1120
1100
1080
1060
1040

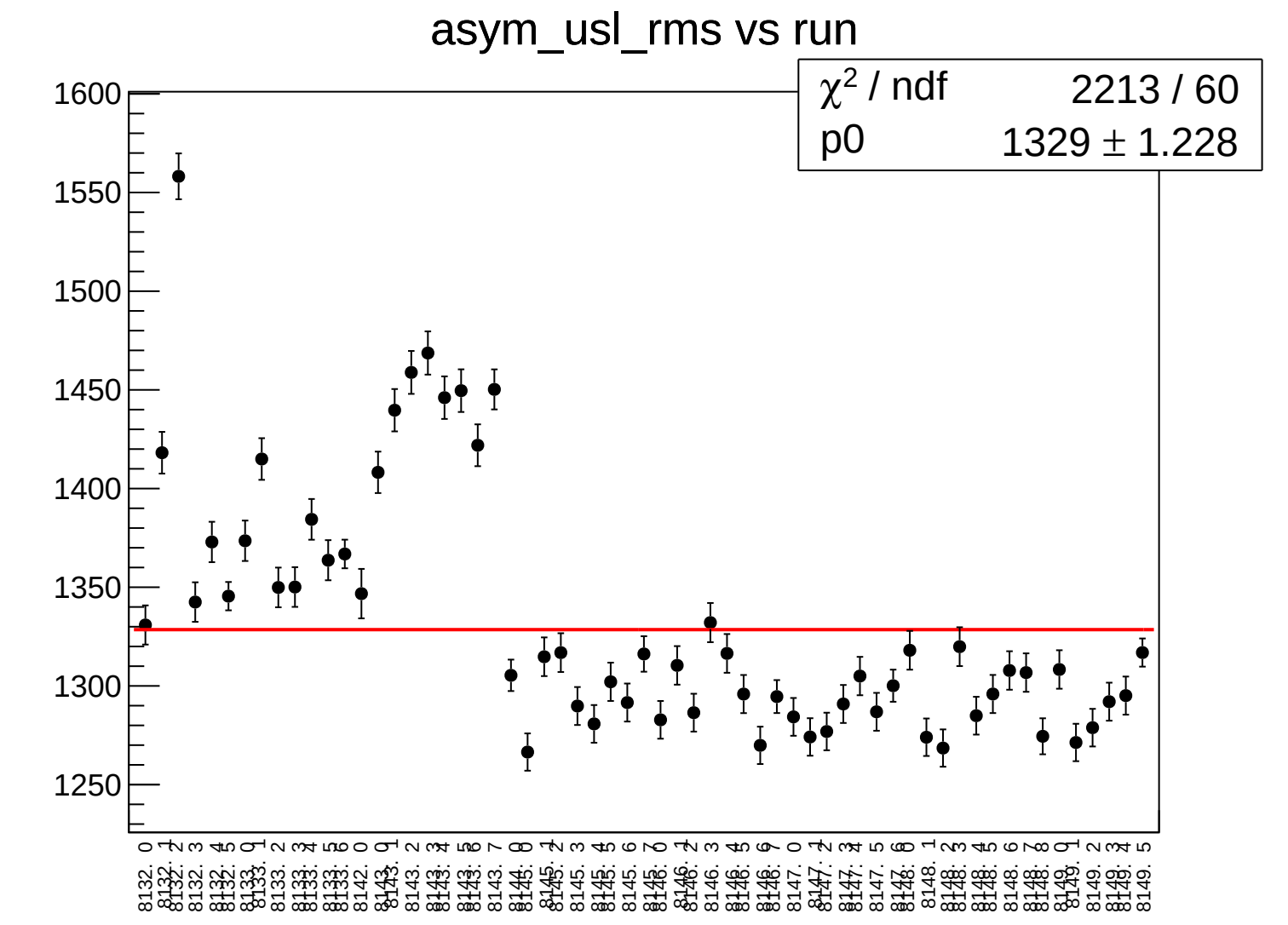

asym_usl_correction_mean vs run
χ² / ndf 80.13 / 60
p0 164.6 ± 977.8
pull
Entries 61
Mean 157.9
Std Dev 126.3

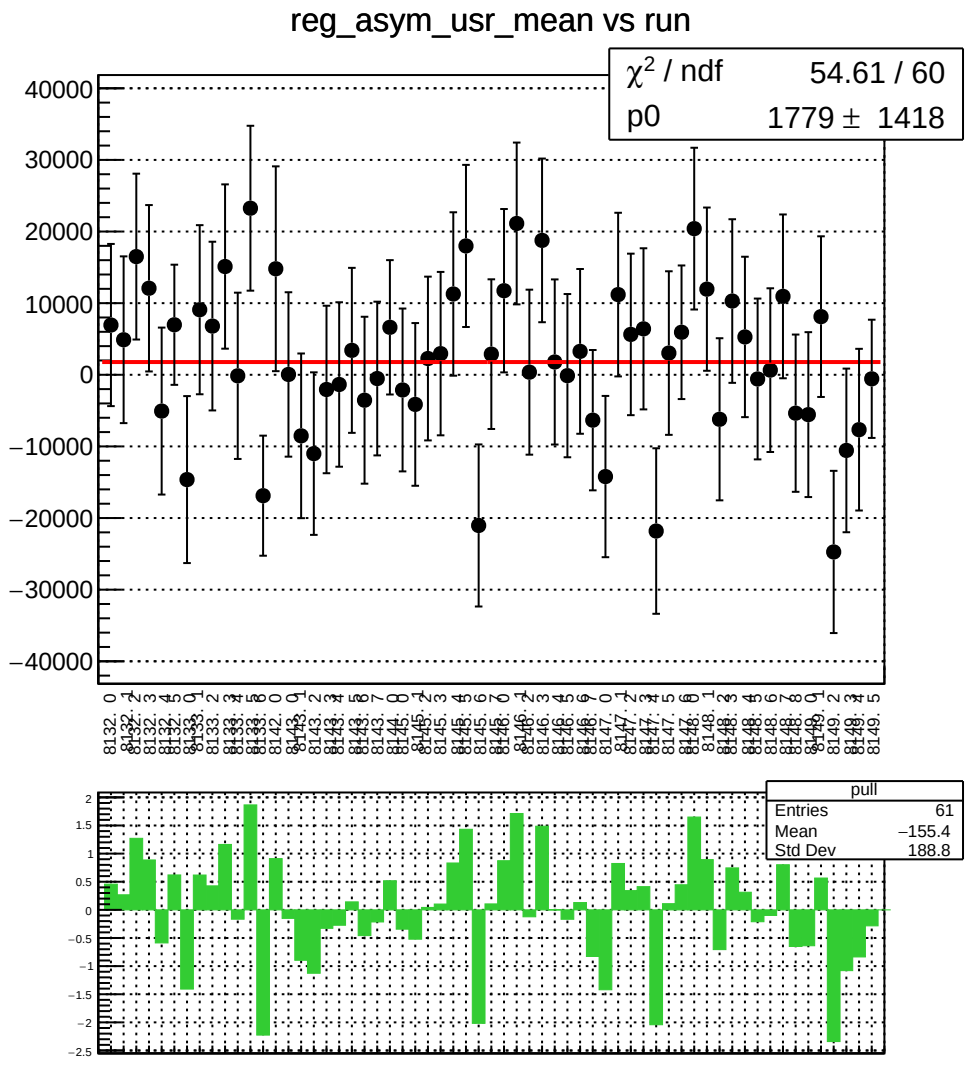

pull1D
Entries 61
Mean −0.01195
Std Dev 1.146

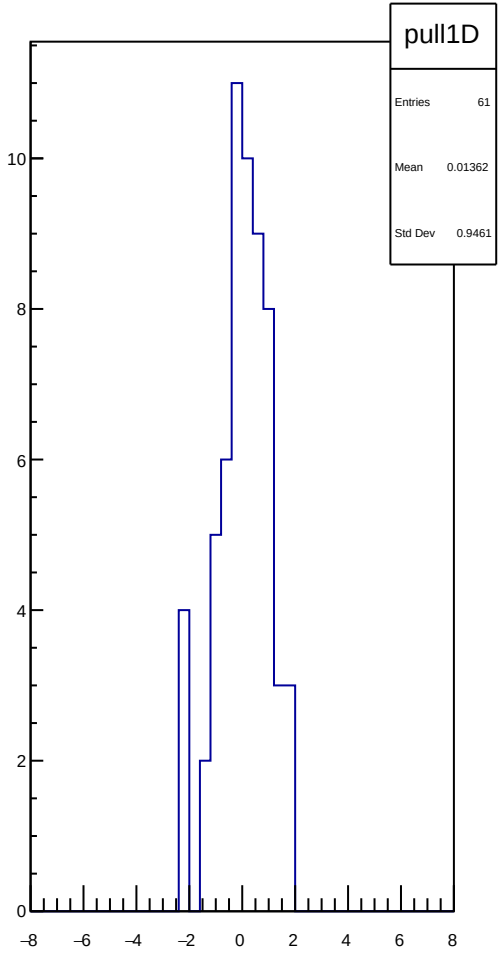

asym_usl_correction_rms vs run
χ² / ndf 1.117e+04 / 60
p0 745 ± 0.6914
1050
1000
950
900
850
800
750
700
650
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 0
8133. 1
8133. 2
8133. 3
8133. 4
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

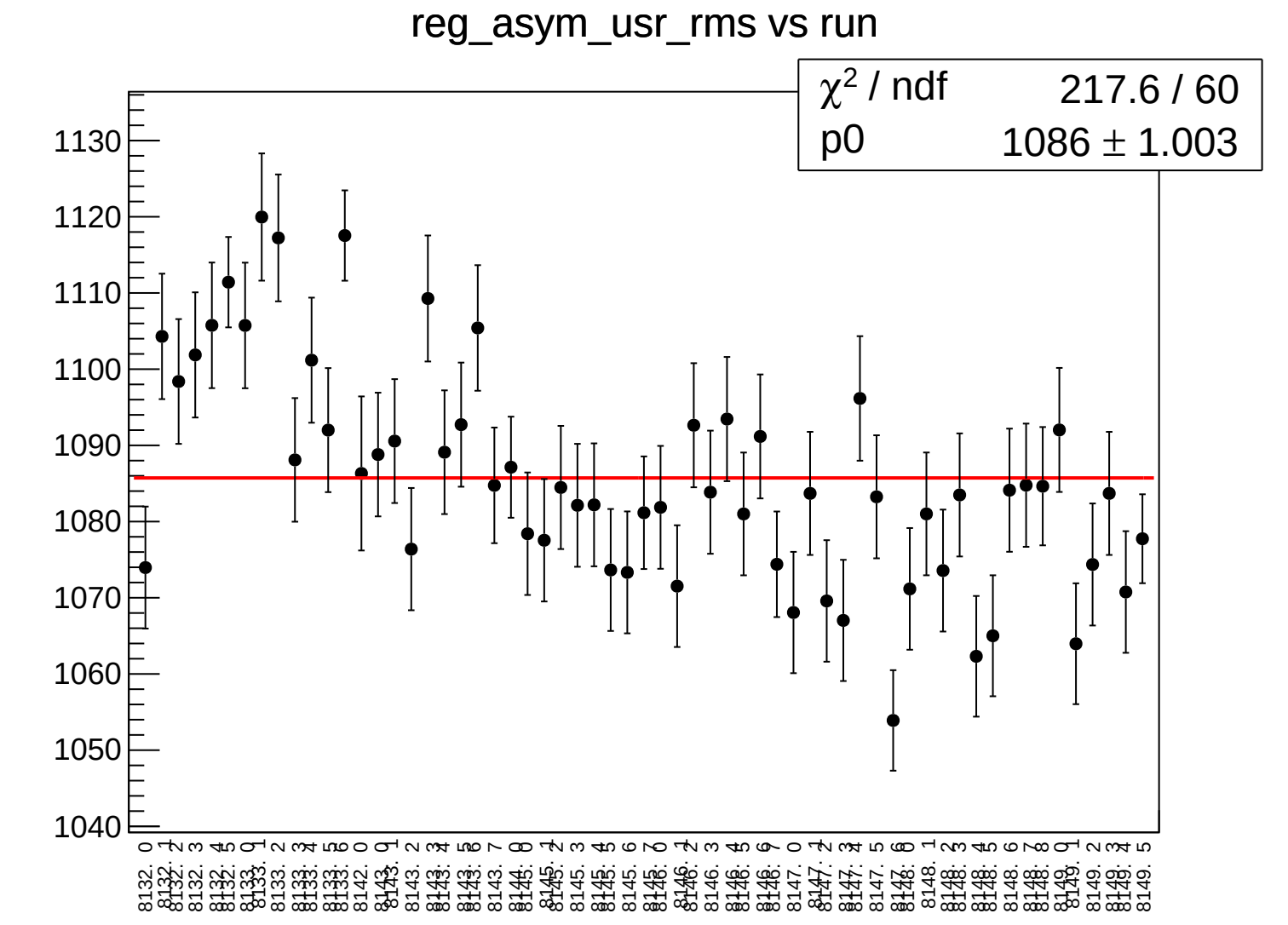

asym_usl_mean vs run
χ² / ndf 65.55 / 60
p0 2857 ± 1737
40000
20000
0
−20000
−40000
pull
Entries 61
Mean −913
Std Dev 943.7
3
2
1
0
−1
−2

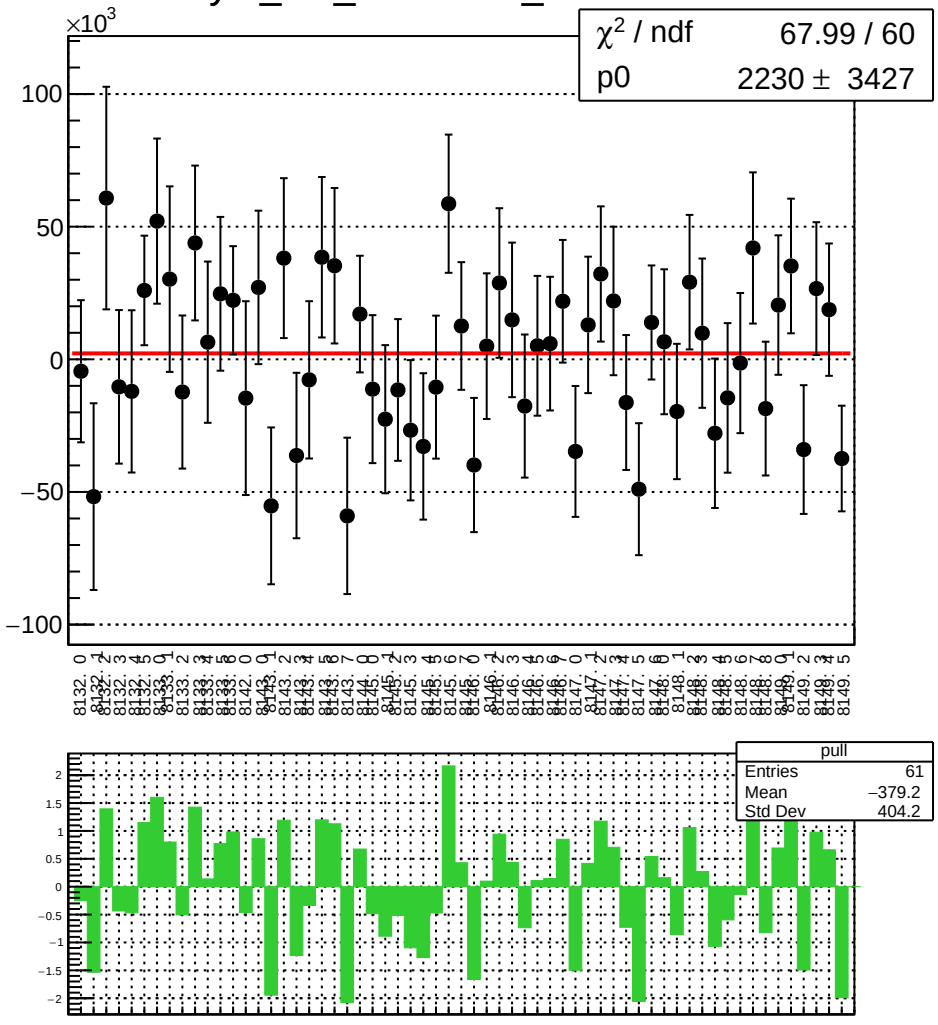

pull1D
Entries 61
Mean −0.004465
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

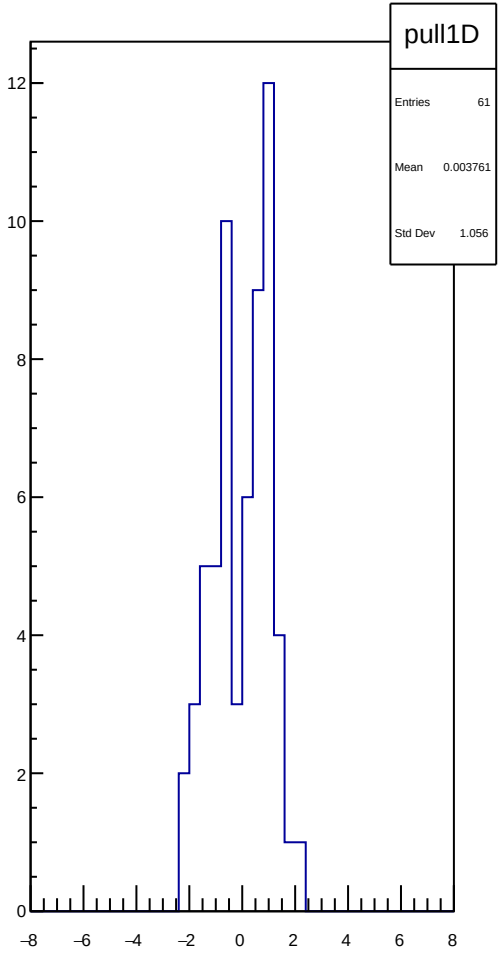

asym_usl_rms vs run
χ² / ndf 2213 / 60
p0 1329 ± 1.228
1600
1550
1500
1450
1400
1350
1300
1250

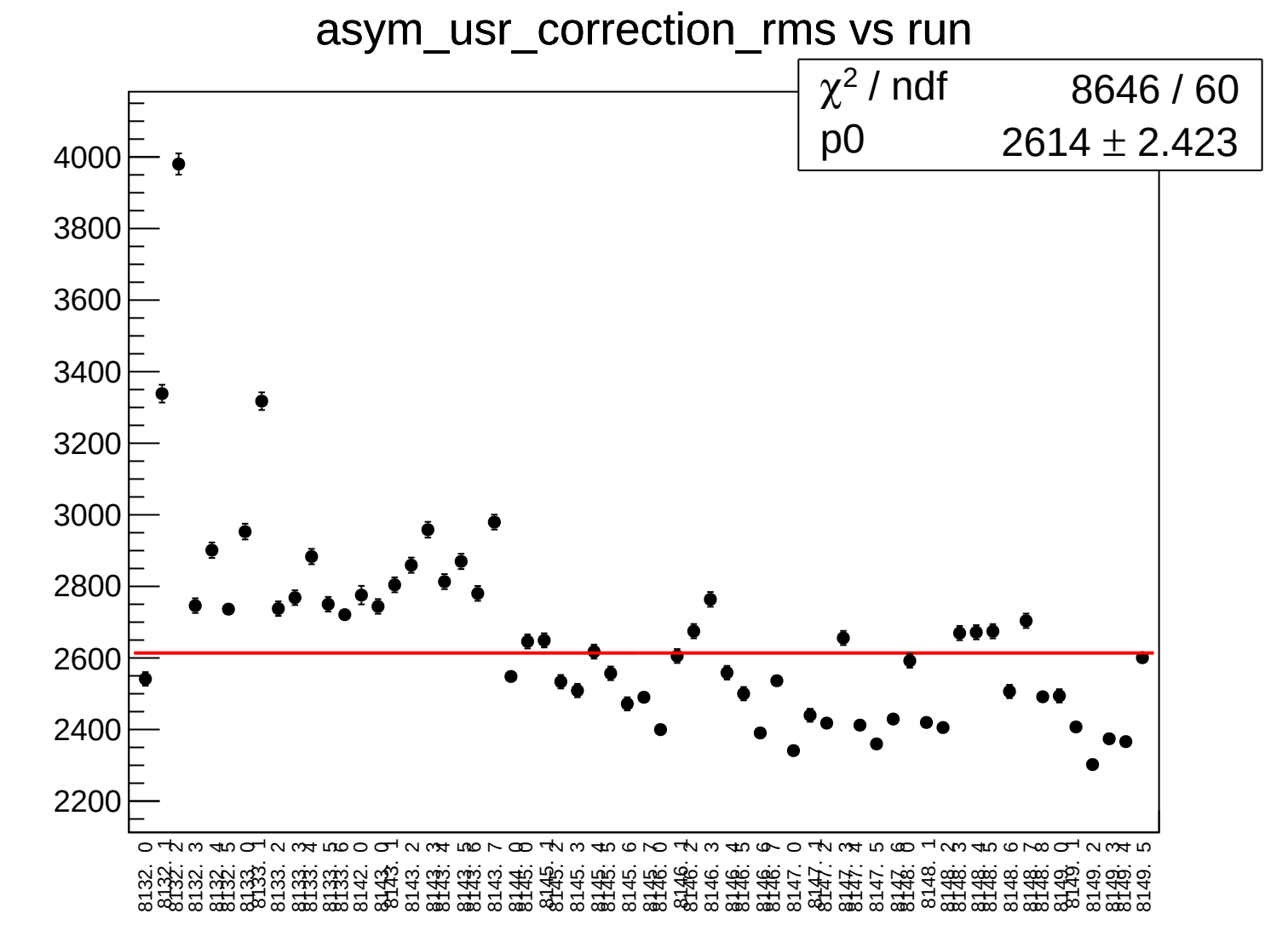

reg_asym_usr_mean vs run
χ² / ndf 54.61 / 60
p0 1779 ± 1418
pull
Entries 61
Mean −155.4
Std Dev 188.8

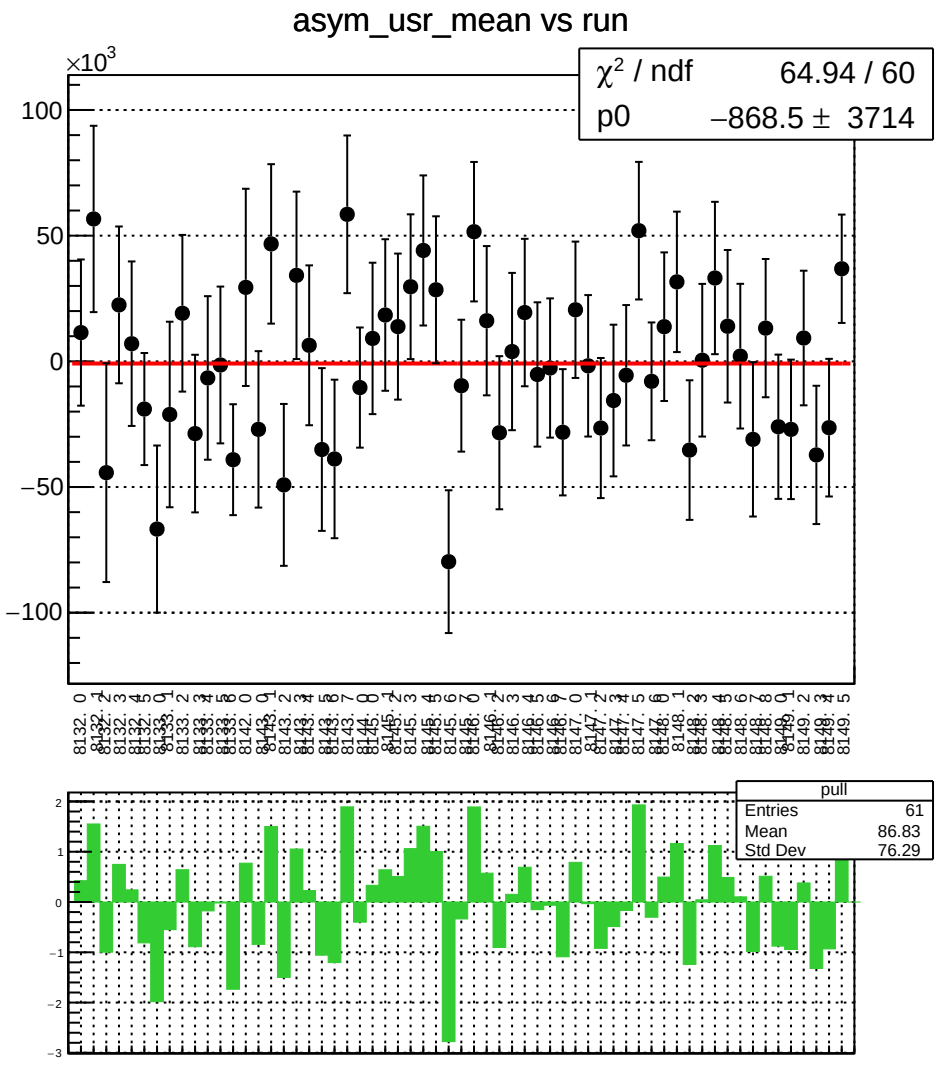

pull1D
Entries 61
Mean 0.01362
Std Dev 0.9461

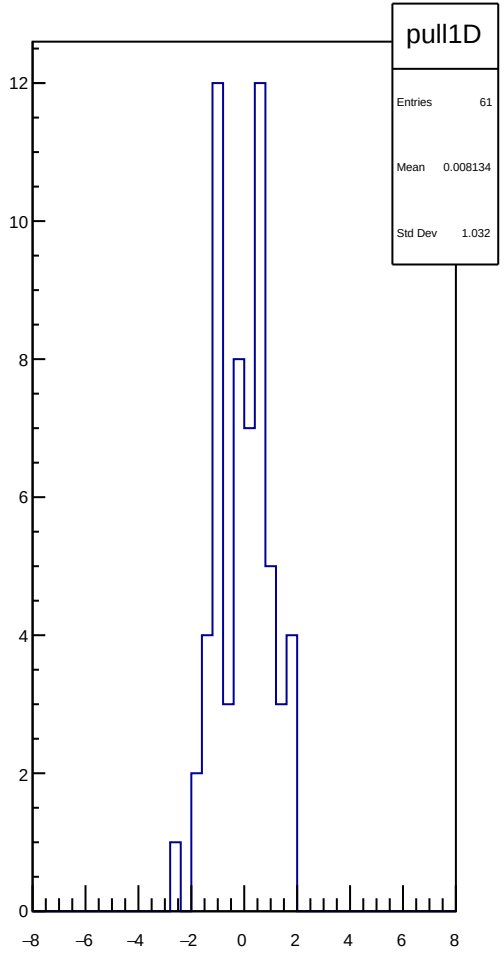

reg_asym_usr_rms vs run
χ² / ndf 217.6 / 60
p0 1086 ± 1.003
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8132. 6
8133. 0
8133. 1
8133. 2
8133. 3
8133. 4
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8144. 6
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8147. 7
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

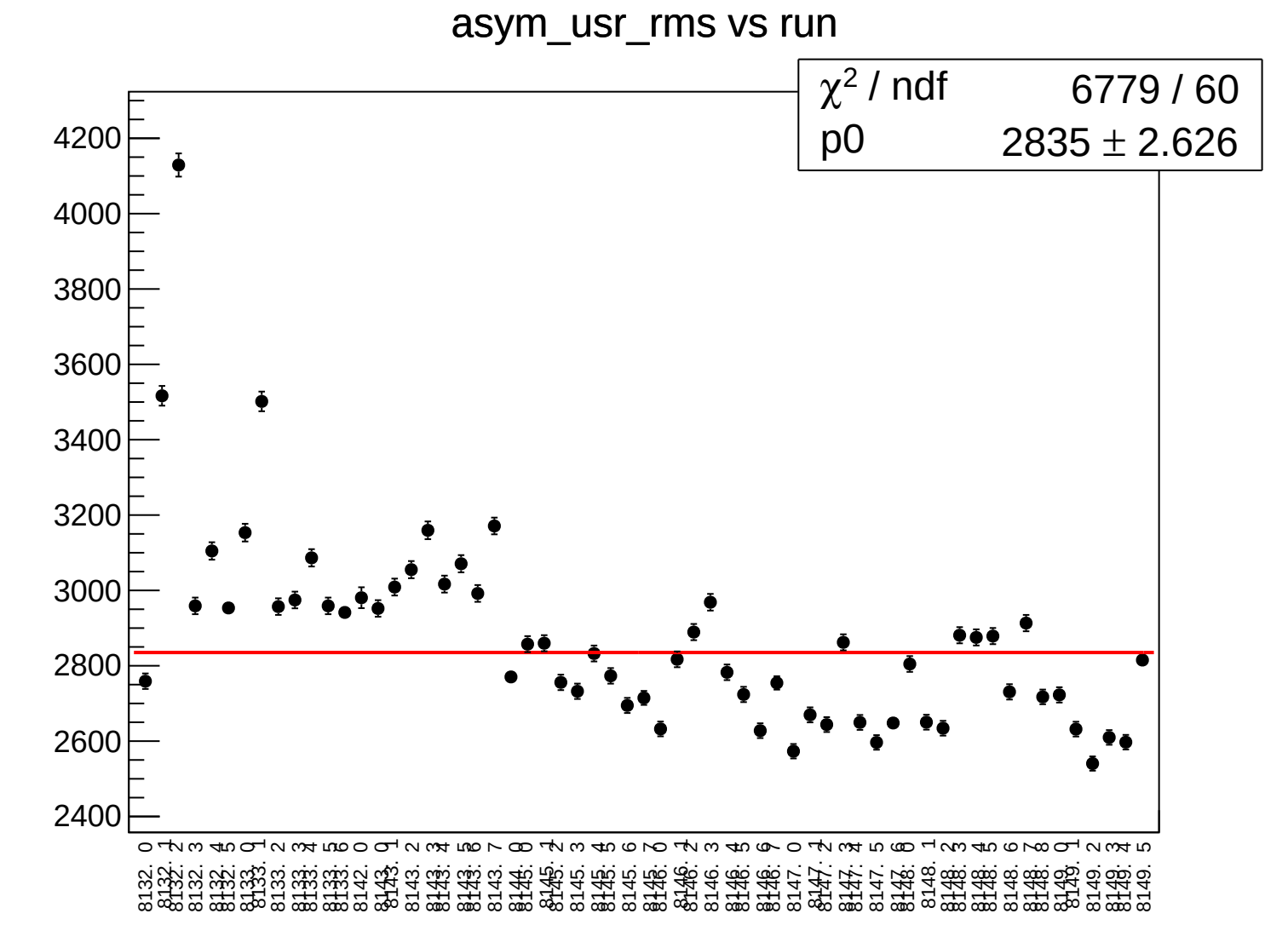

asym_usr_correction_mean vs run
χ² / ndf 67.99 / 60
p0 2230 ± 3427
pull
Entries 61
Mean −379.2
Std Dev 404.2

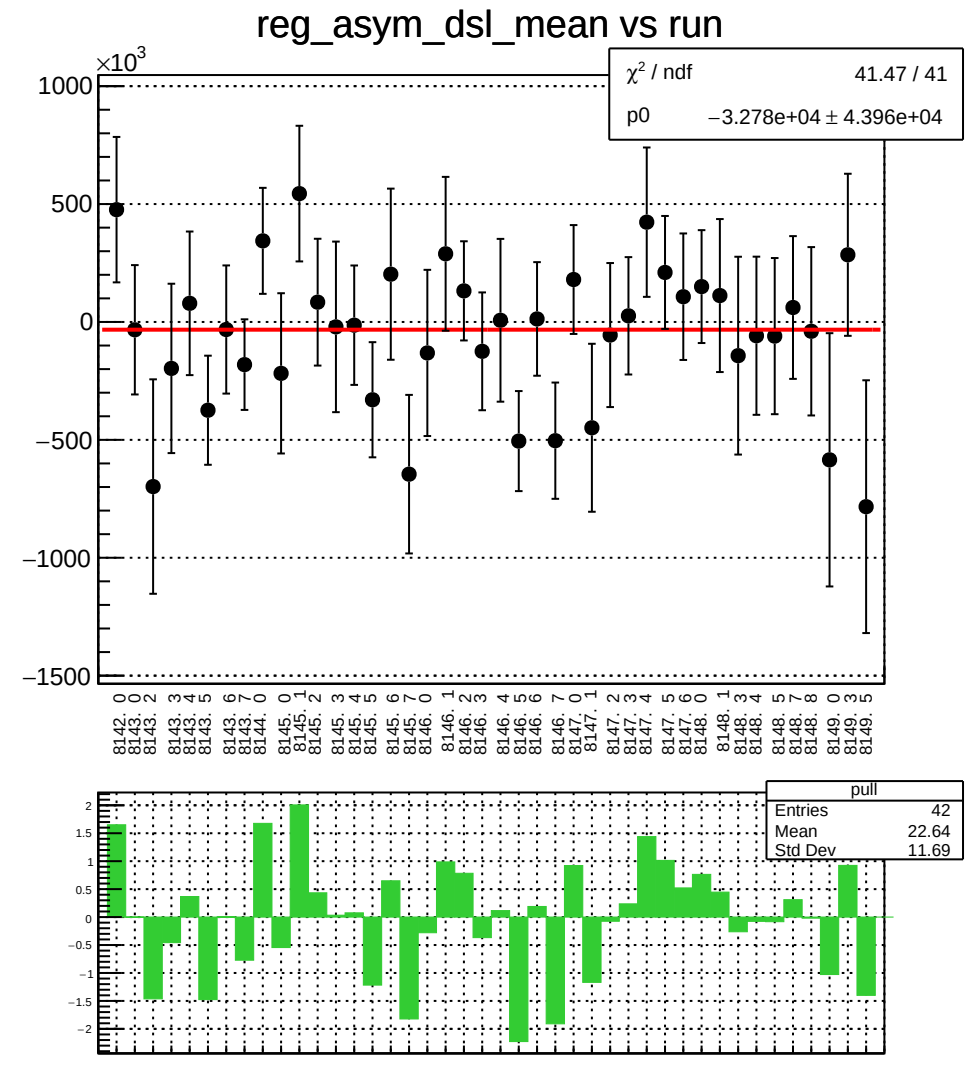

pull1D
Entries 61
Mean 0.003761
Std Dev 1.056

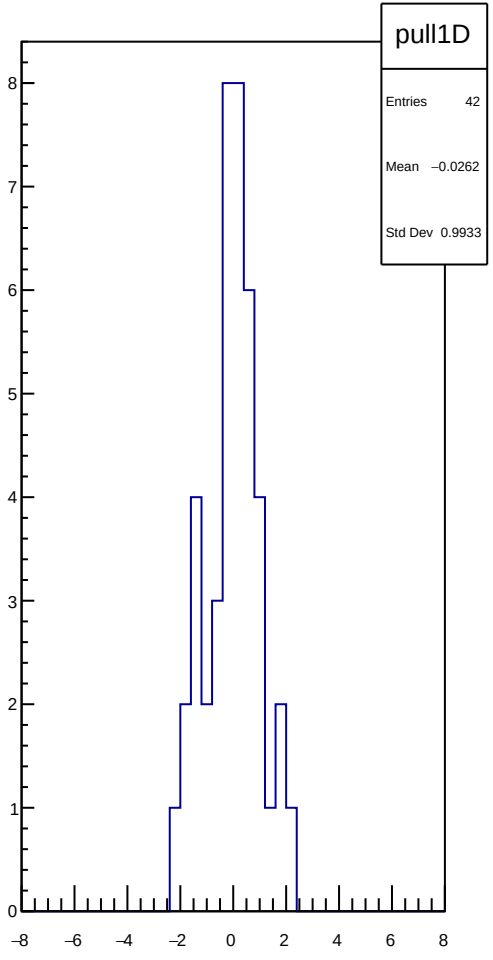

asym_usr_correction_rms vs run
χ² / ndf 8646 / 60
p0 2614 ± 2.423
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

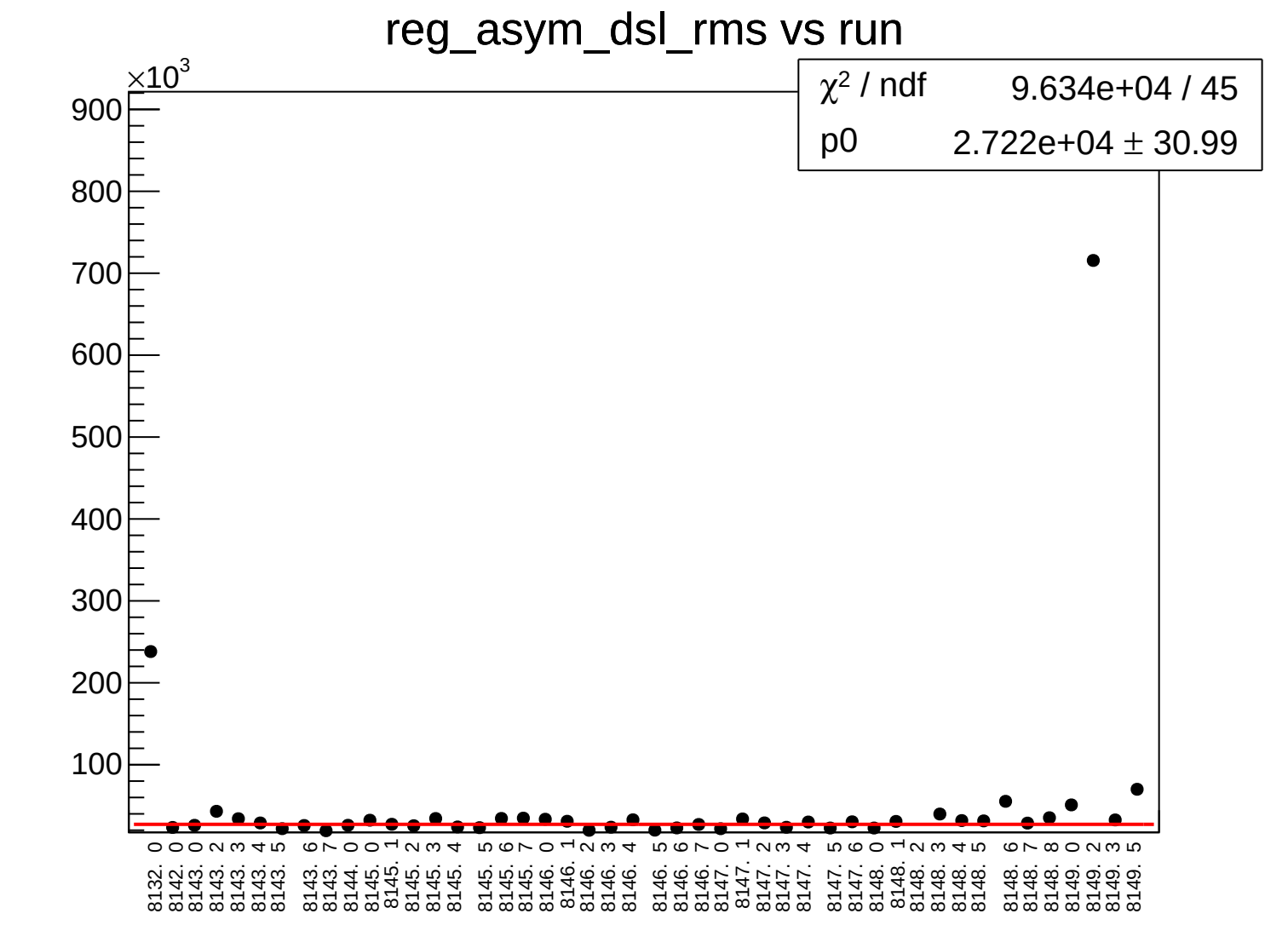

asym_usr_mean vs run
×10^3
χ² / ndf 64.94 / 60
p0 −868.5 ± 3714
100
50
0
−50
−100
pull
Entries 61
Mean 86.83
Std Dev 76.29
2
1
0
−1
−2
−3

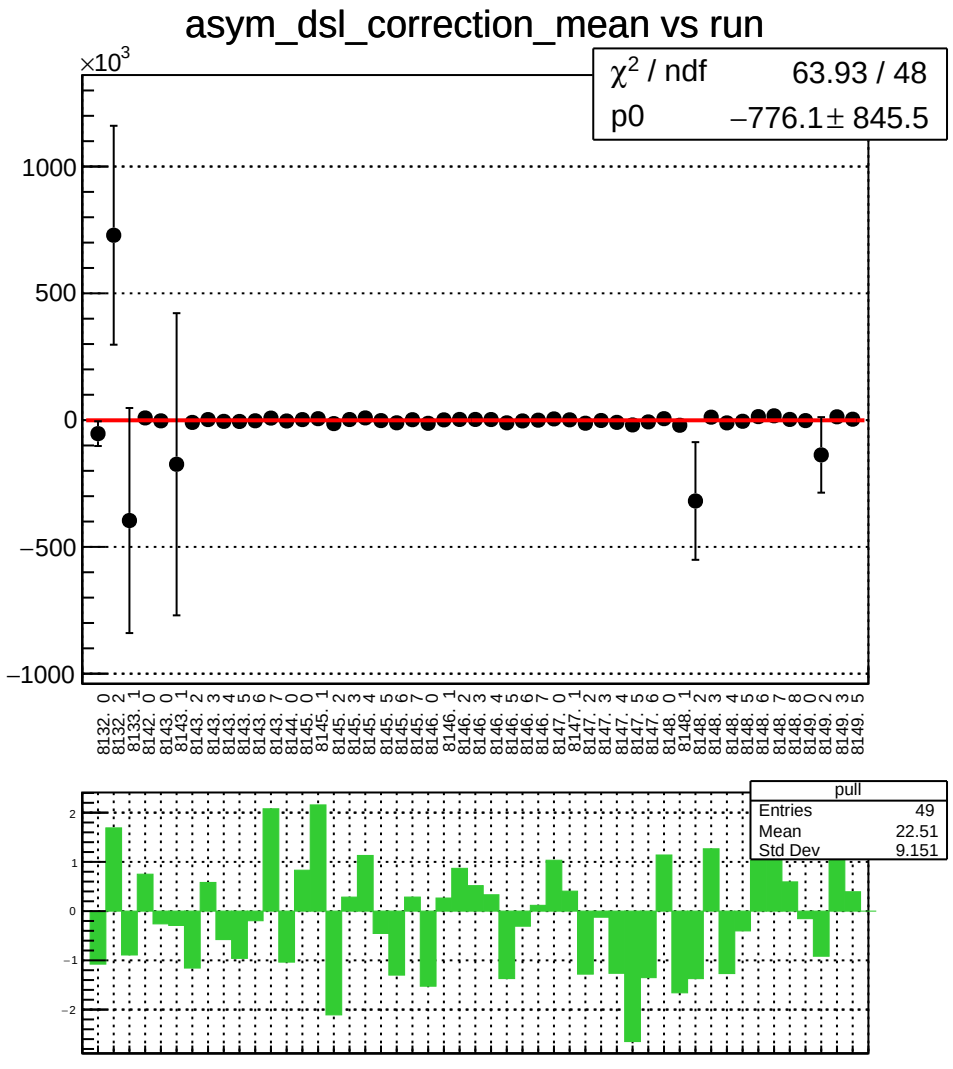

pull1D
Entries 61
Mean 0.008134
Std Dev 1.032
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

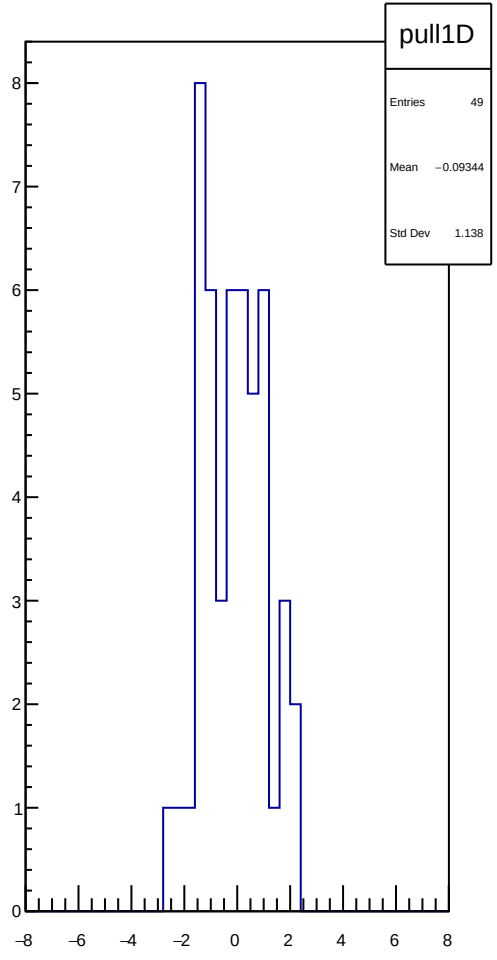

asym_usr_rms vs run
χ² / ndf 6779 / 60
p0 2835 ± 2.626
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

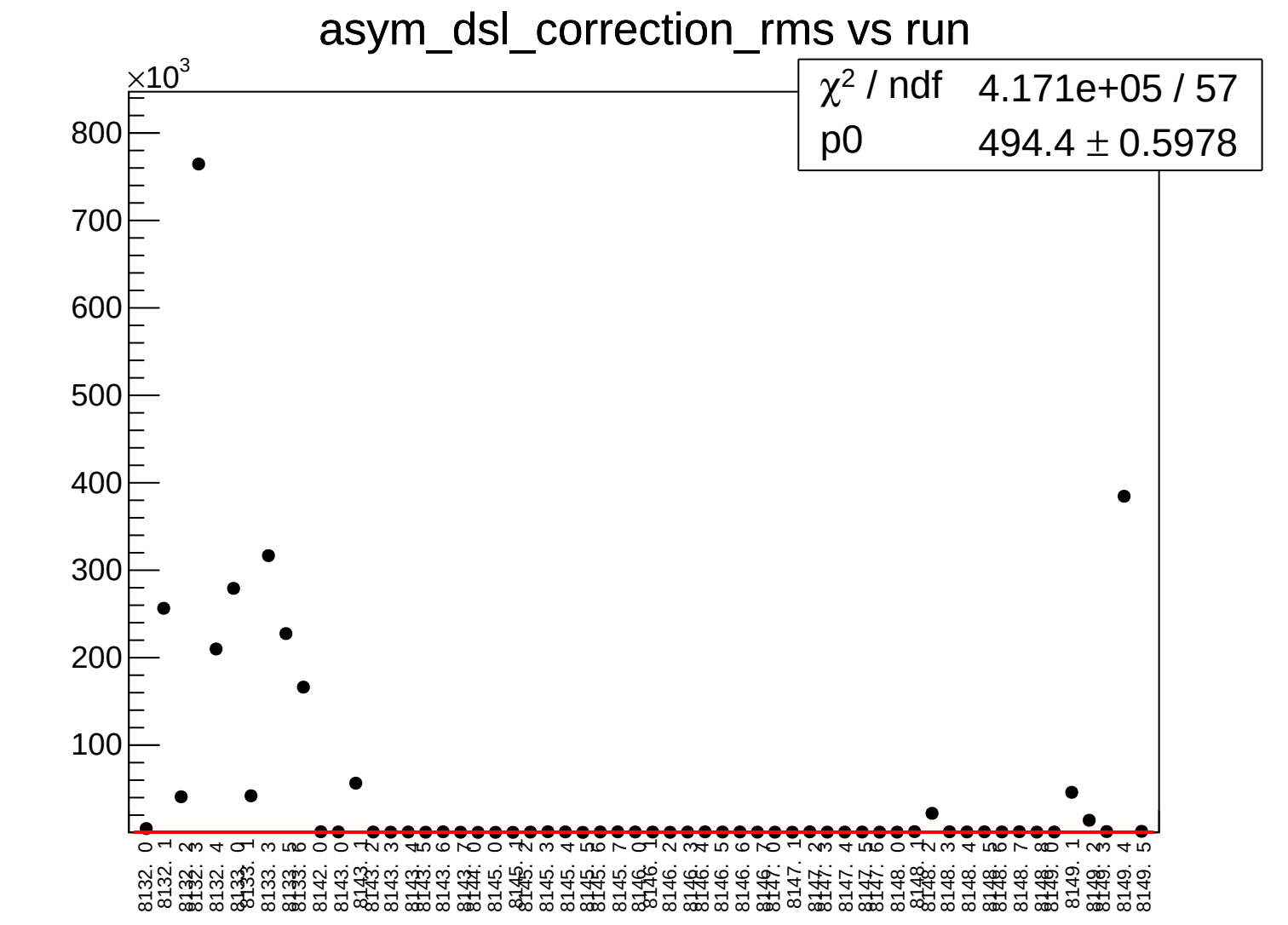

reg_asym_dsl_mean vs run
×10^3
χ² / ndf 41.47 / 41
p0 −3.278e+04 ± 4.396e+04
1000
500
0
−500
−1000
−1500
8142. 0
8143. 0
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 3
8148. 4
8148. 5
8148. 7
8148. 8
8149. 0
8149. 3
8149. 5
pull
Entries 42
Mean 22.64
Std Dev 11.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

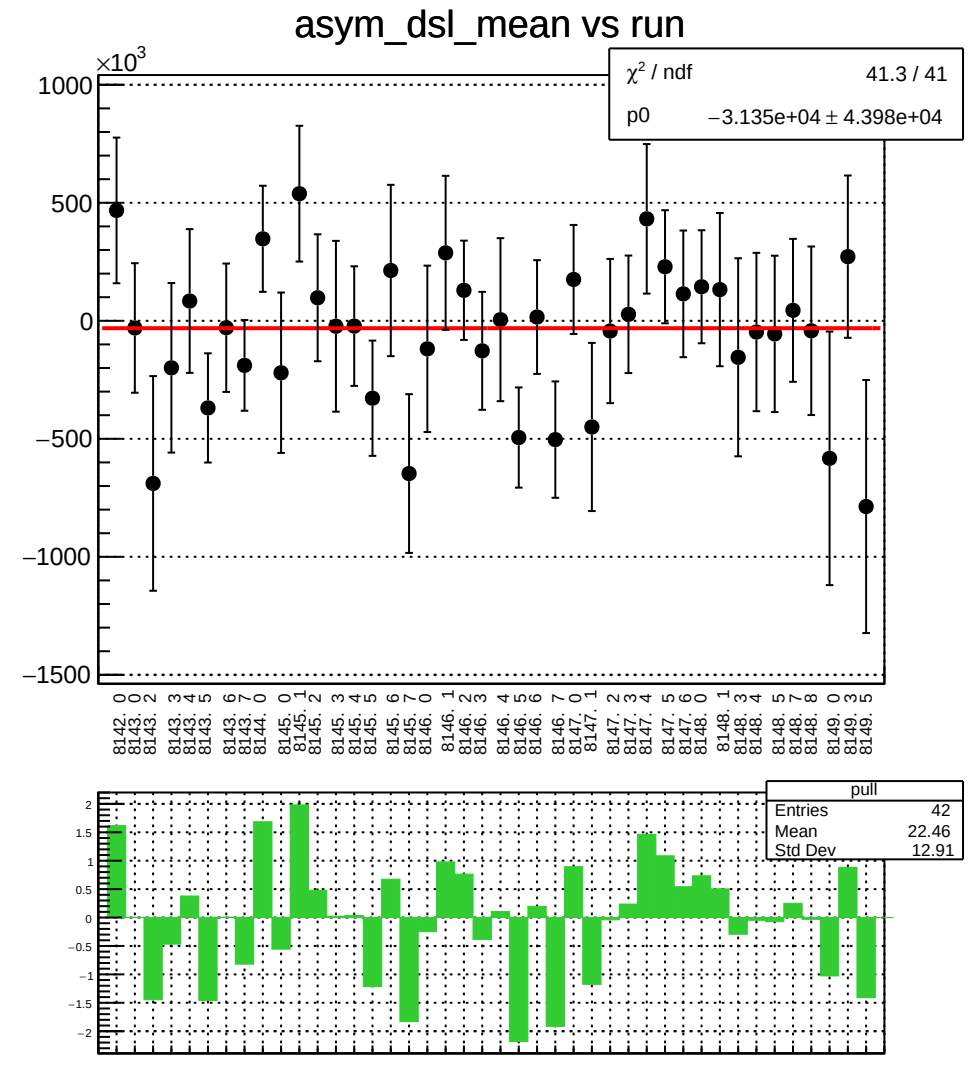

pull1D
Entries 42
Mean −0.0262
Std Dev 0.9933
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

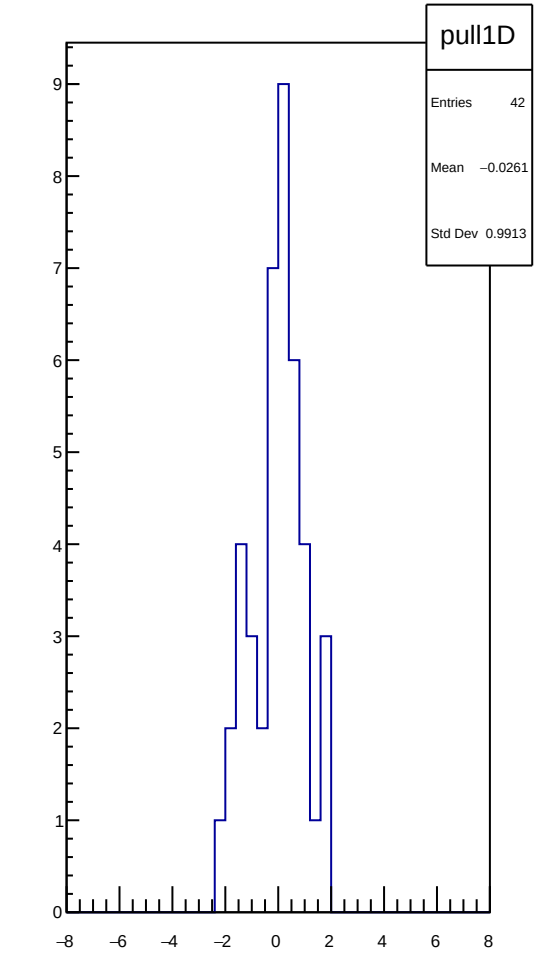

reg_asym_dsl_rms vs run
×10^3
900
800
700
600
500
400
300
200
100
χ² / ndf 9.634e+04 / 45
p0 2.722e+04 ± 30.99
8132. 0
8142. 0
8143. 0
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 2
8149. 3
8149. 5

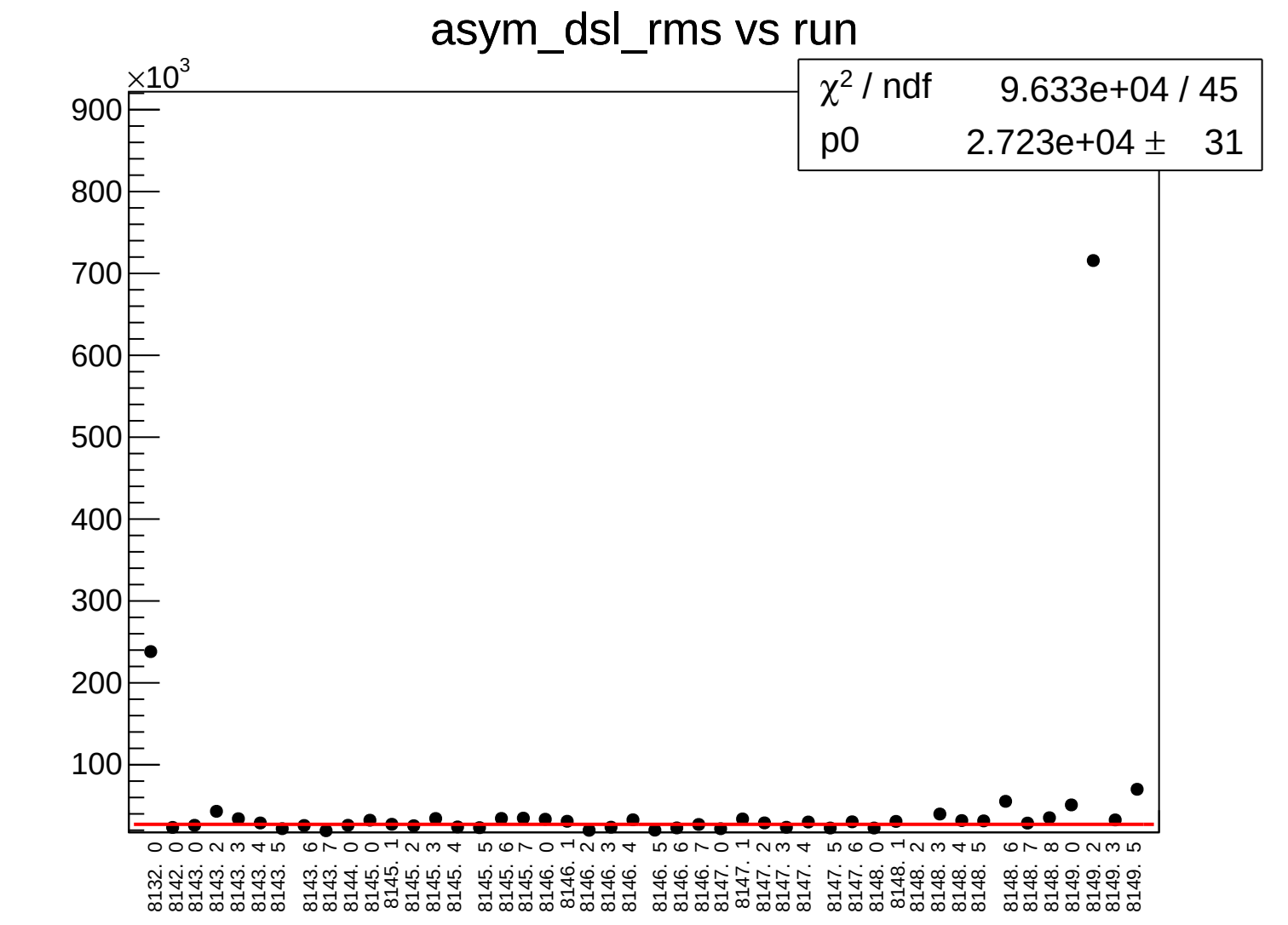

asym_dsl_correction_mean vs run
×10^3
χ^2 / ndf 63.93 / 48
p0 −776.1 ± 845.5
1000
500
0
−500
−1000
8132. 0
8132. 2
8133. 1
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 2
8149. 3
8149. 5
pull
Entries 49
Mean 22.51
Std Dev 9.151
2
1
0
−1
−2

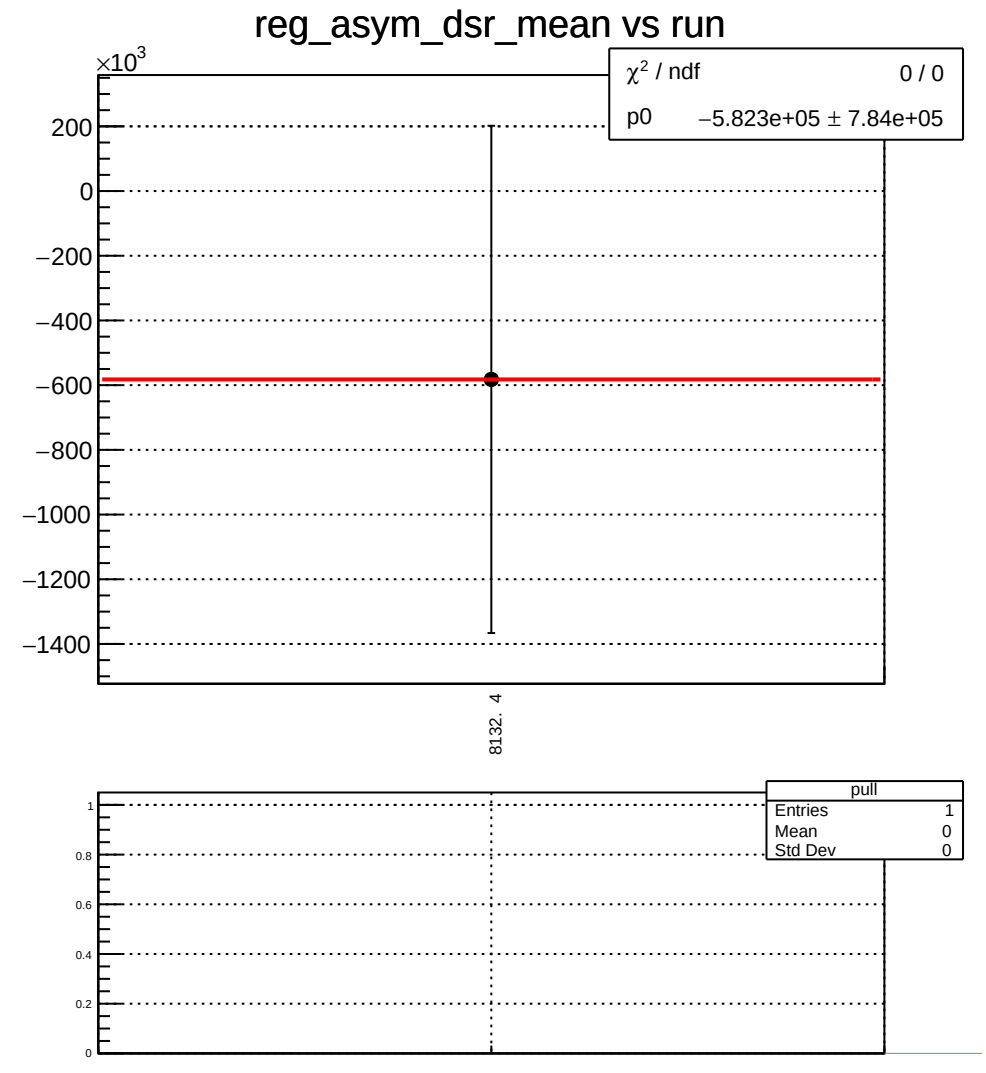

pull1D
Entries 49
Mean −0.09344
Std Dev 1.138
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

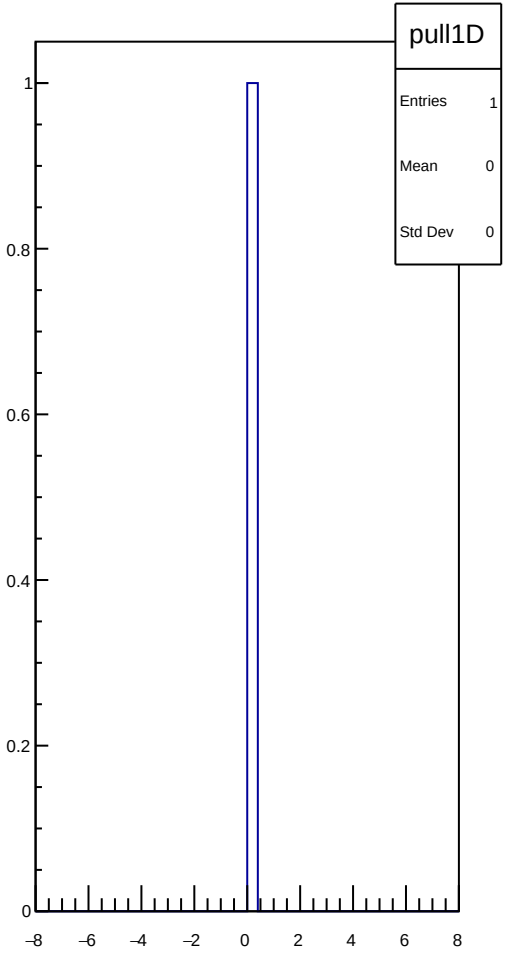

asym_dsl_correction_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 4.171e+05 / 57
p0 494.4 ± 0.5978
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8133. 0
8133. 1
8133. 3
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

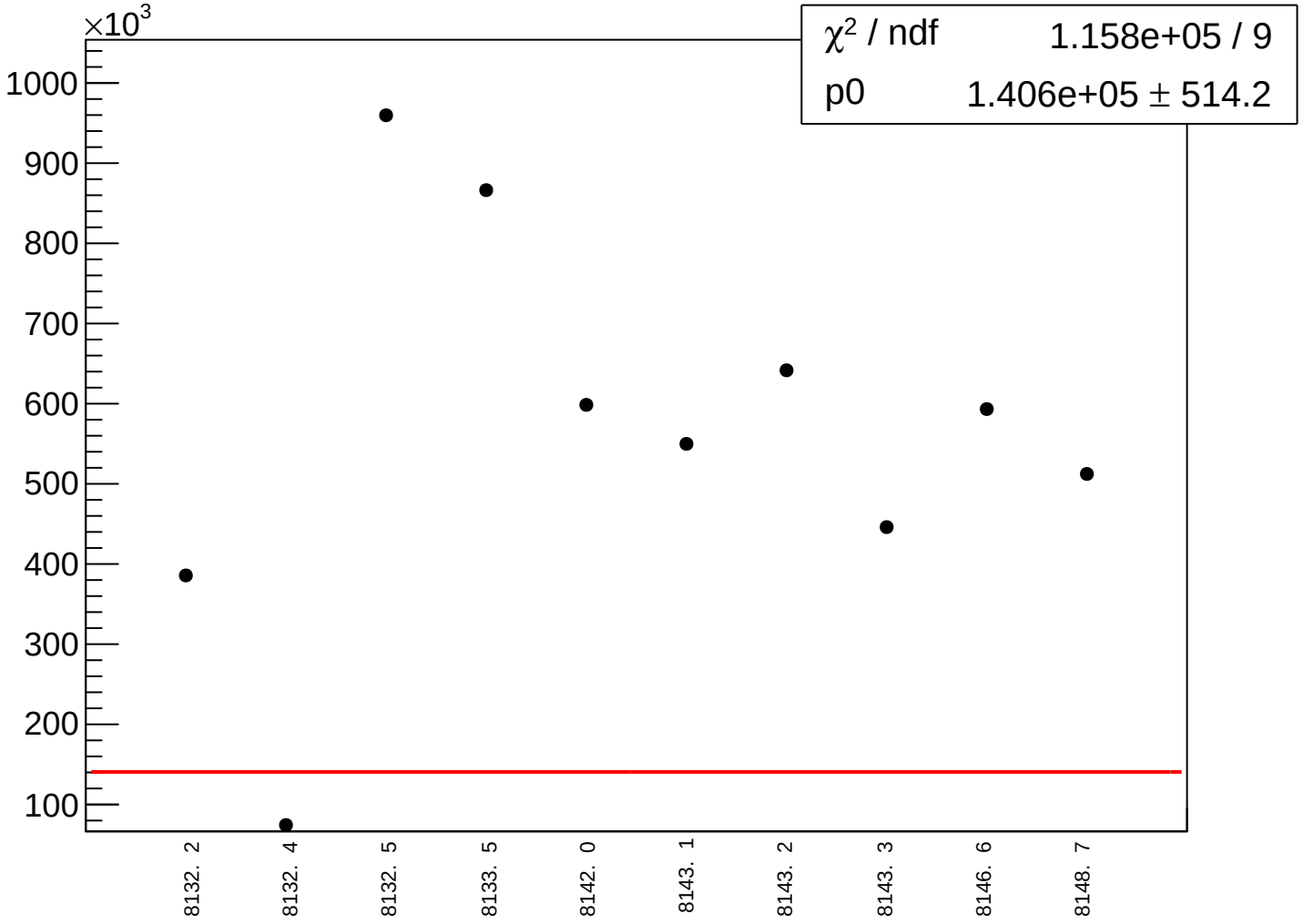

asym_dsl_mean vs run
×10^3
1000
500
0
−500
−1000
−1500
χ² / ndf 41.3 / 41
p0 −3.135e+04 ± 4.398e+04
8142. 0
8143. 0
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 3
8148. 4
8148. 5
8148. 7
8148. 8
8149. 0
8149. 3
8149. 5
pull
Entries 42
Mean 22.46
Std Dev 12.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

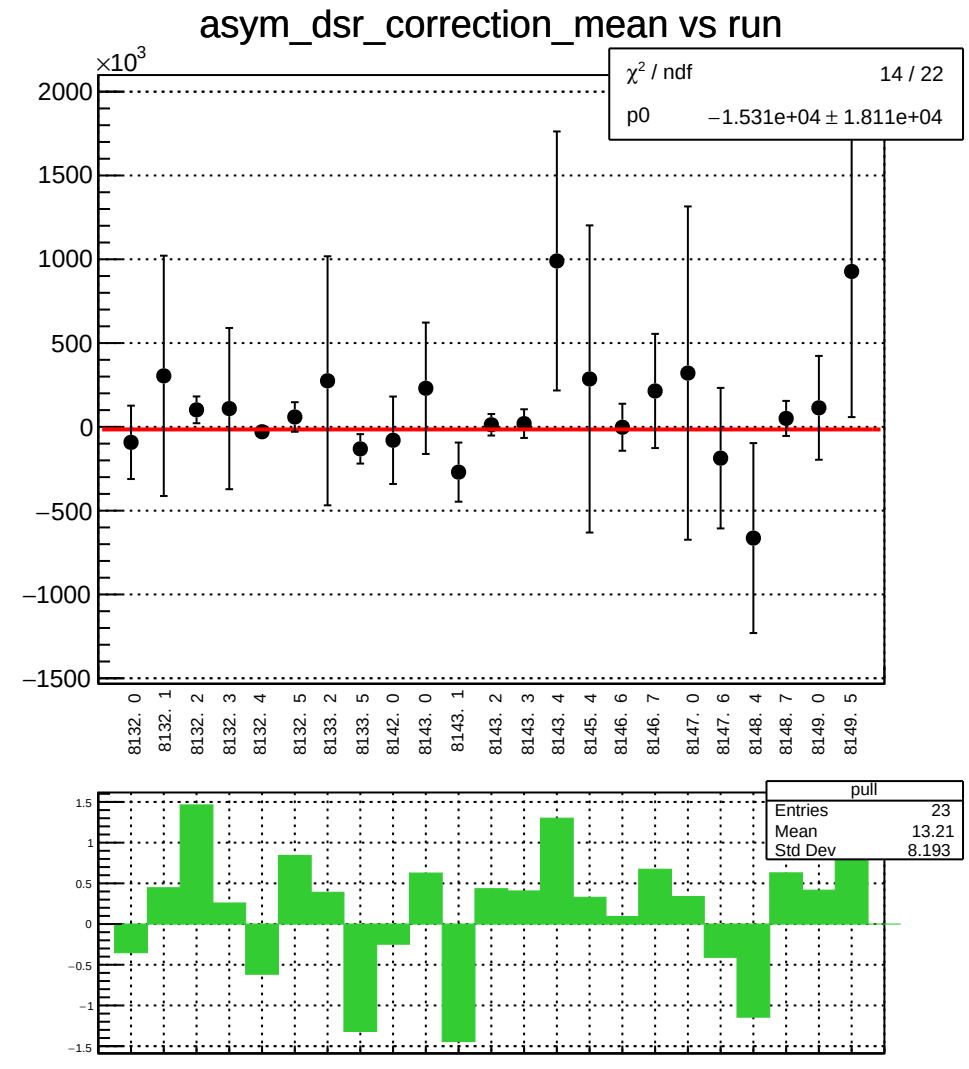

pull1D
Entries 42
Mean −0.0261
Std Dev 0.9913
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

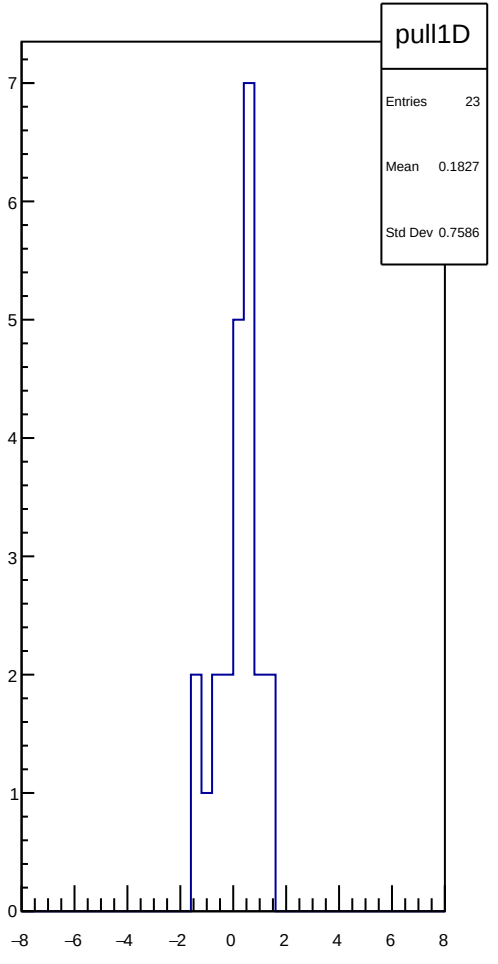

asym_dsl_rms vs run
×10^3
900
800
700
600
500
400
300
200
100
χ² / ndf 9.633e+04 / 45
p0 2.723e+04 ± 31
8132. 0
8142. 0
8143. 0
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 2
8149. 3
8149. 5

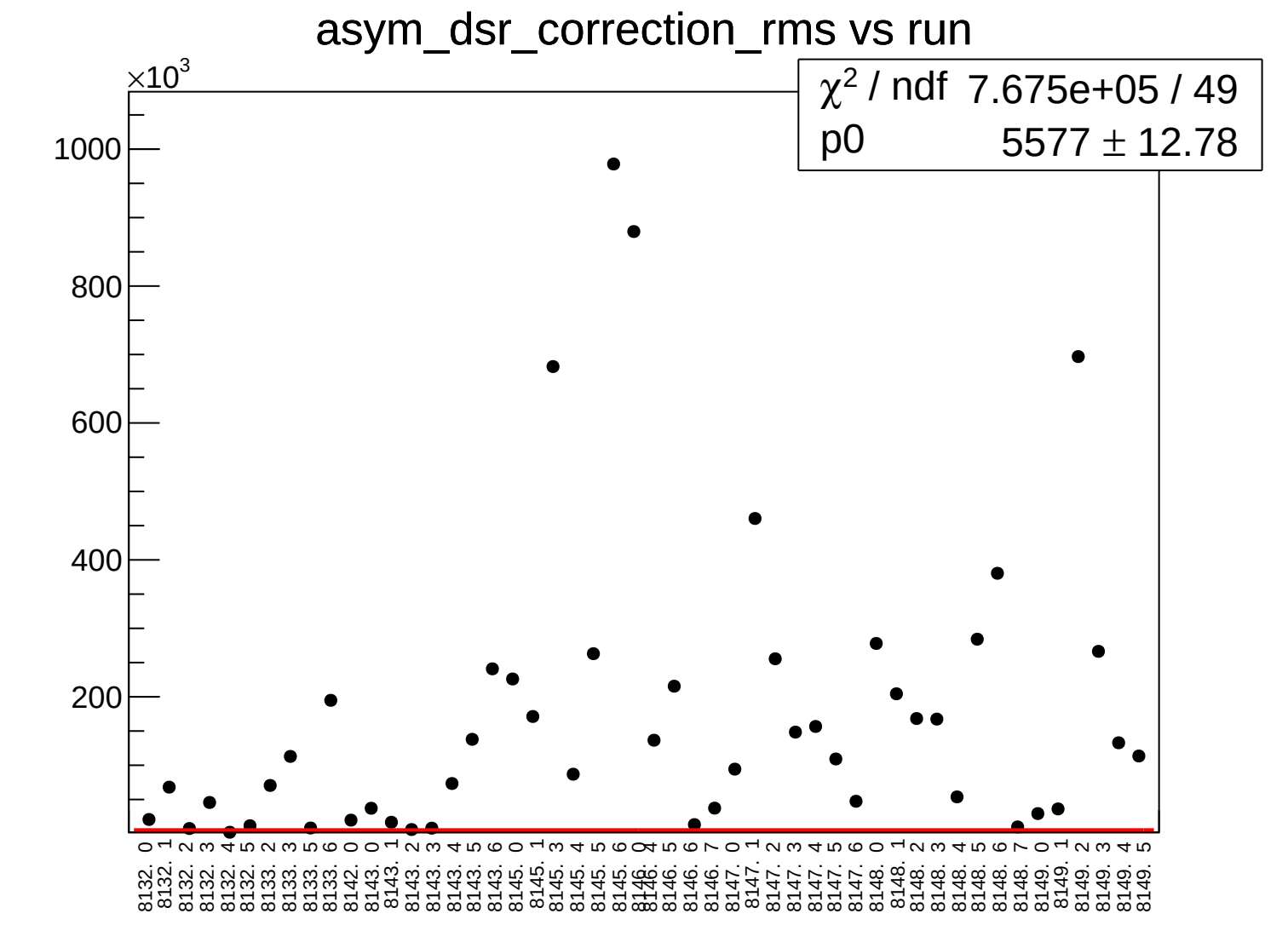

reg_asym_dsr_mean vs run
×10^3
χ² / ndf 0 / 0
p0 −5.823e+05 ± 7.84e+05
200
0
−200
−400
−600
−800
−1000
−1200
−1400
8132. 4
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

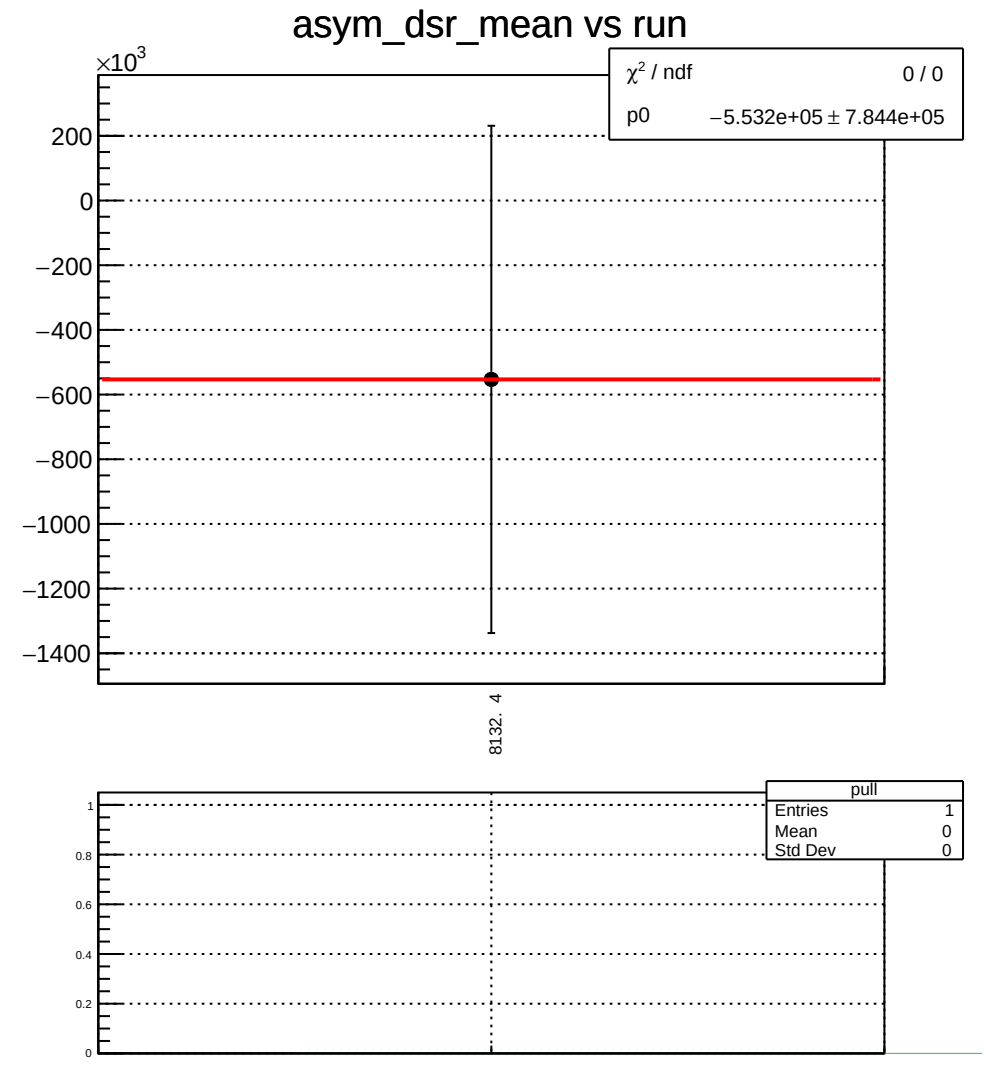

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

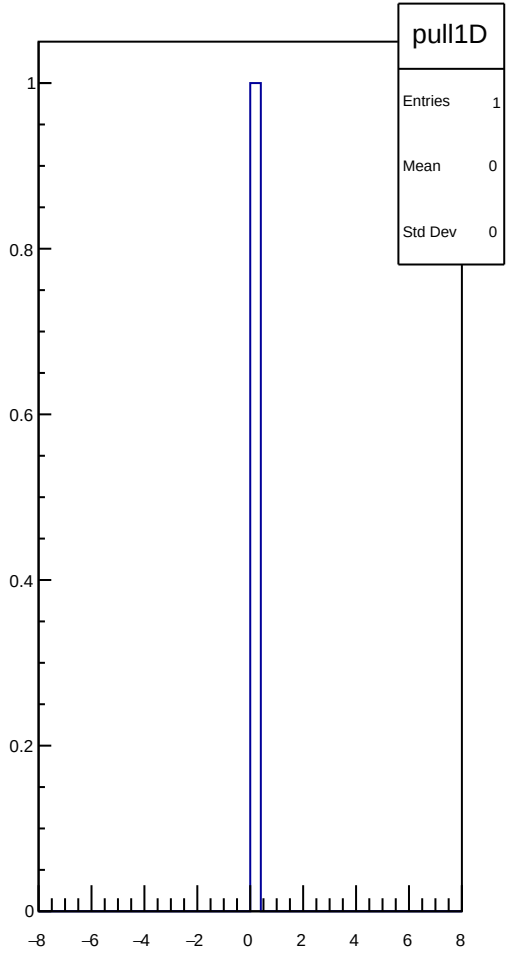

reg_asym_dsr_rms vs run
×10^3
1000
900
800
700
600
500
400
300
200
100
χ² / ndf 1.158e+05 / 9
p0 1.406e+05 ± 514.2
8132. 2
8132. 4
8132. 5
8133. 5
8142. 0
8143. 1
8143. 2
8143. 3
8146. 6
8148. 7

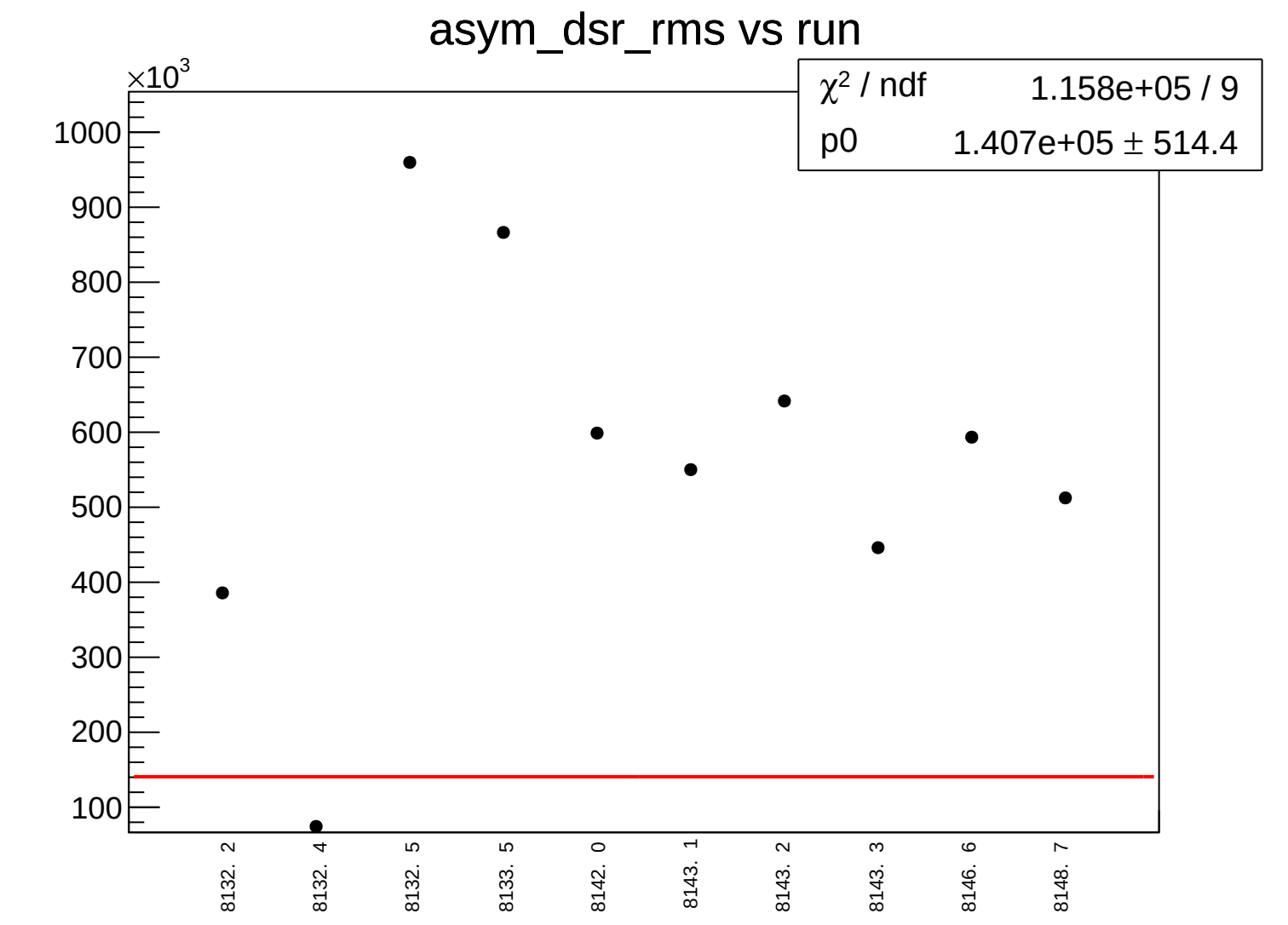

asym_dsr_correction_mean vs run
×10^3
χ² / ndf 14 / 22
p0 −1.531e+04 ± 1.811e+04
2000
1500
1000
500
0
−500
−1000
−1500
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 2
8133. 5
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8145. 4
8146. 6
8146. 7
8147. 0
8147. 6
8148. 4
8148. 7
8149. 0
8149. 5
pull
Entries 23
Mean 13.21
Std Dev 8.193
1.5
1
0.5
0
−0.5
−1
−1.5

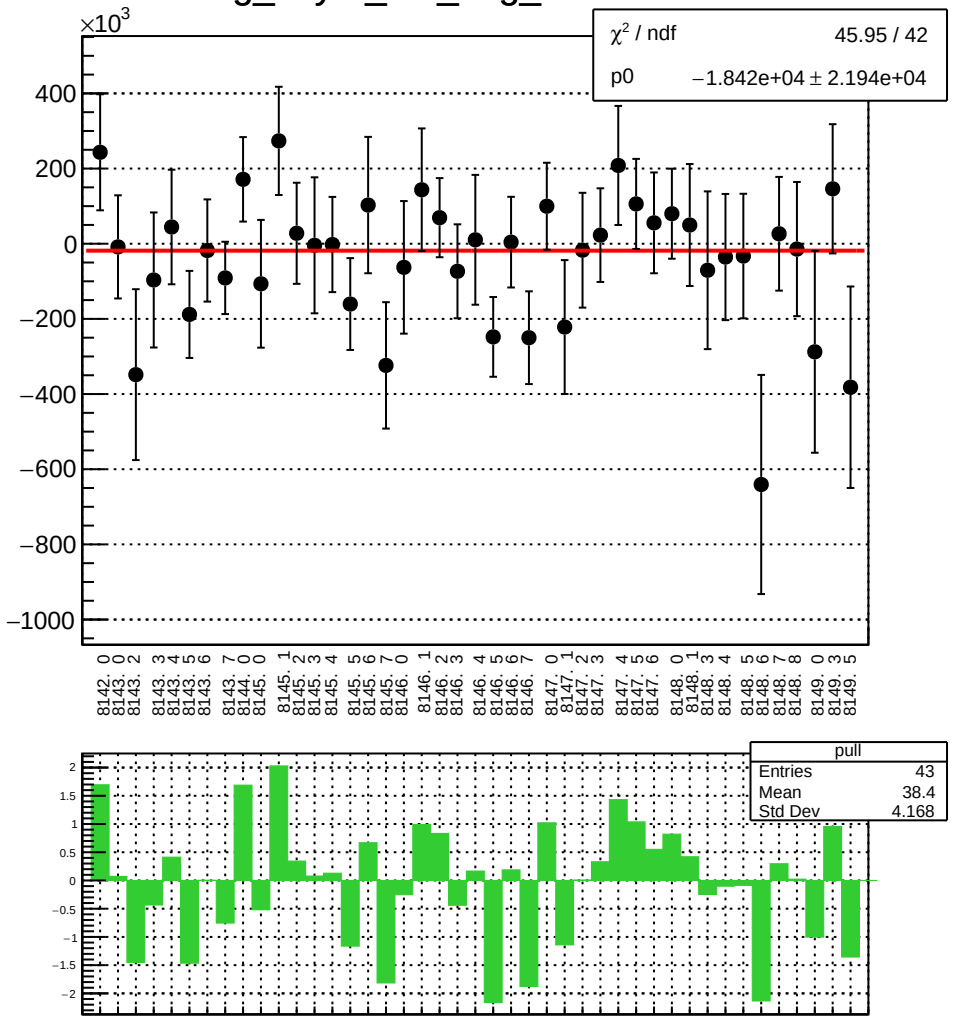

pull1D
Entries 23
Mean 0.1827
Std Dev 0.7586
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

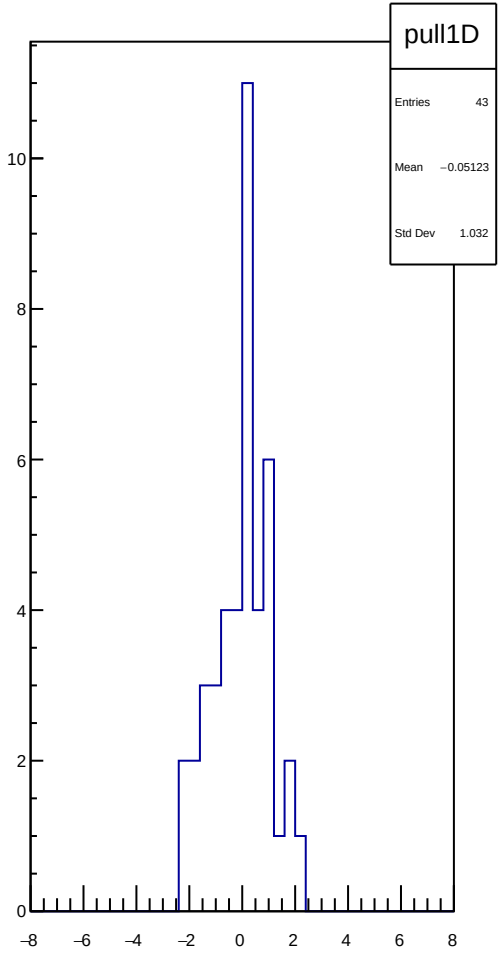

asym_dsr_correction_rms vs run
×10^3
χ^2 / ndf 7.675e+05 / 49
p0 5577 ± 12.78
1000
800
600
400
200
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 2
8133. 3
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8145. 0
8145. 1
8145. 3
8145. 4
8145. 5
8145. 6
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

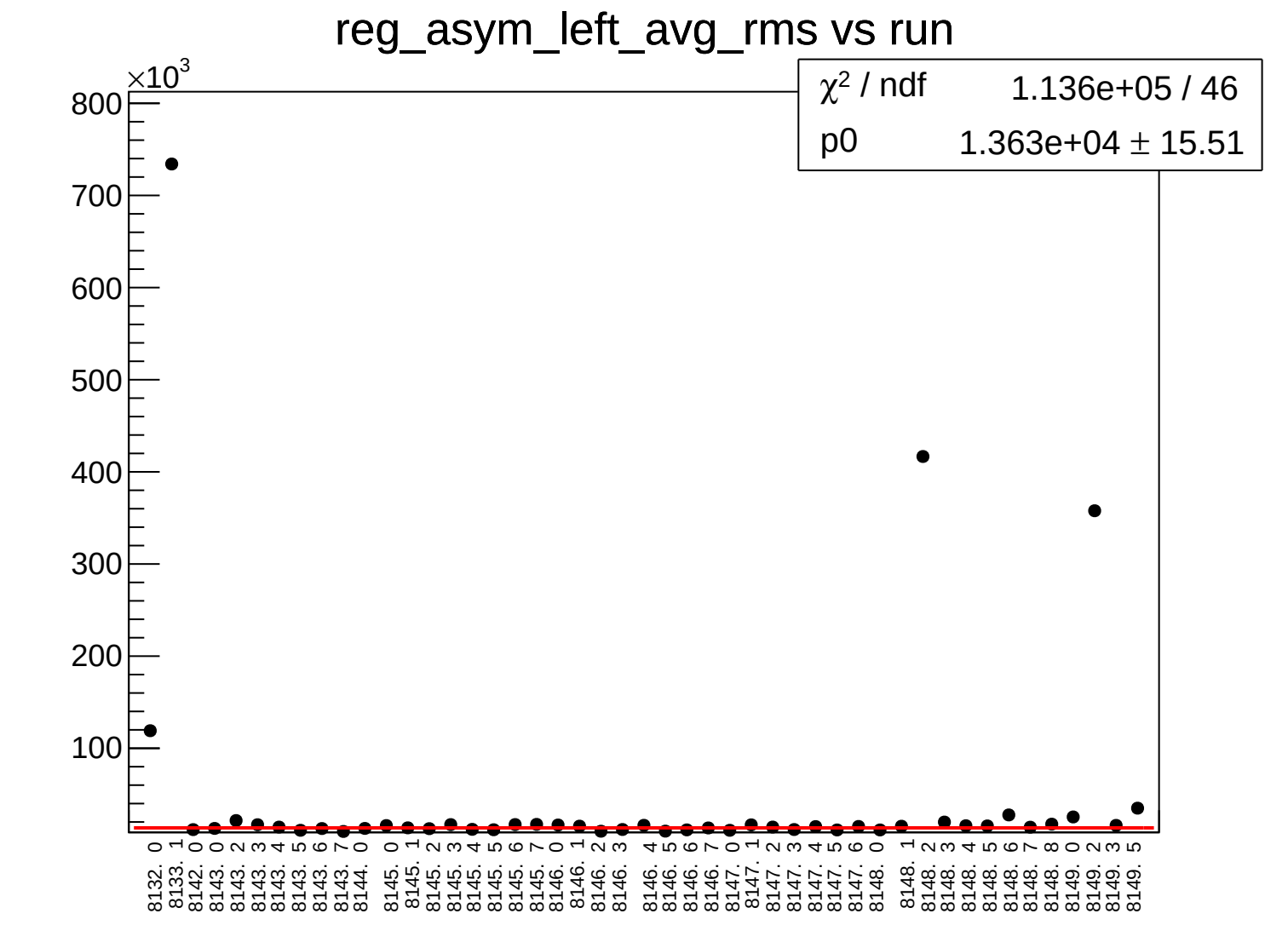

asym_dsr_mean vs run
×10^3
χ² / ndf 0 / 0
p0 −5.532e+05 ± 7.844e+05
200
0
−200
−400
−600
−800
−1000
−1200
−1400
8132. 4
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

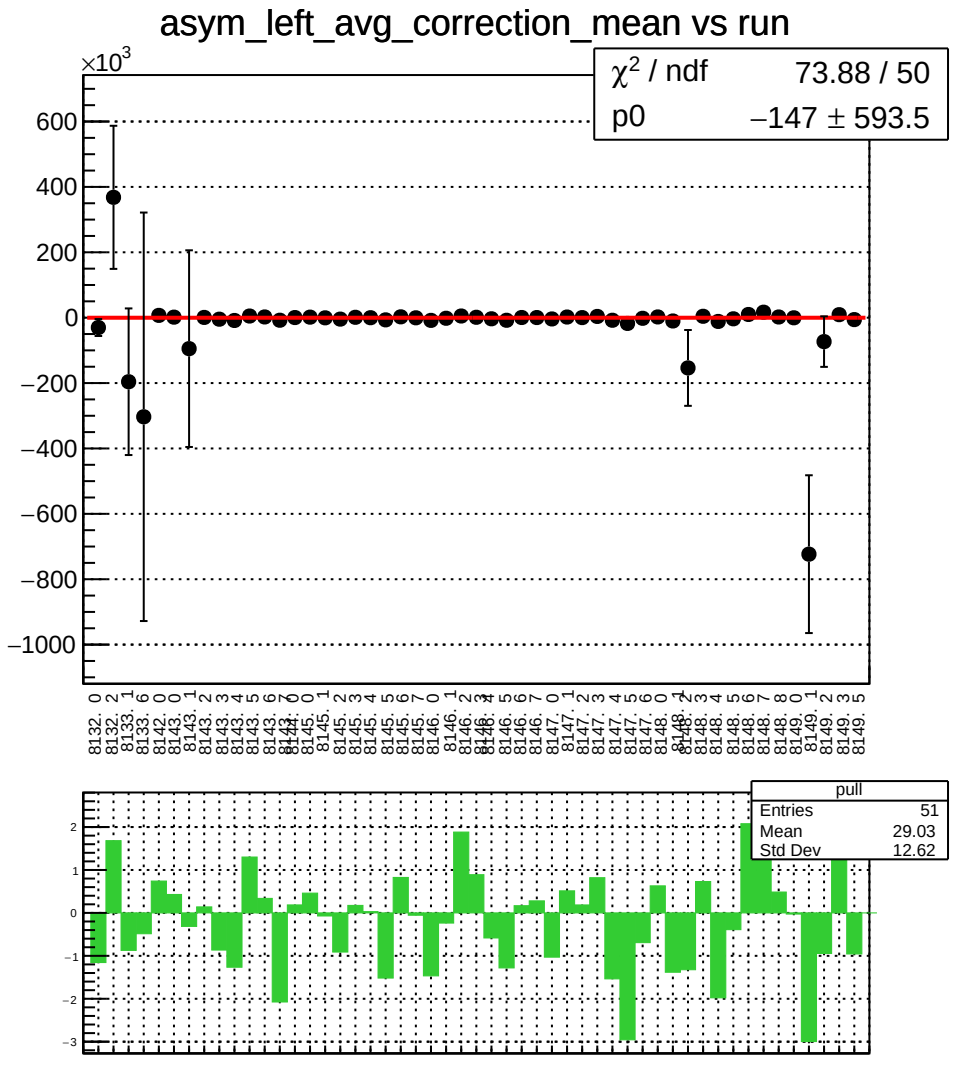

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

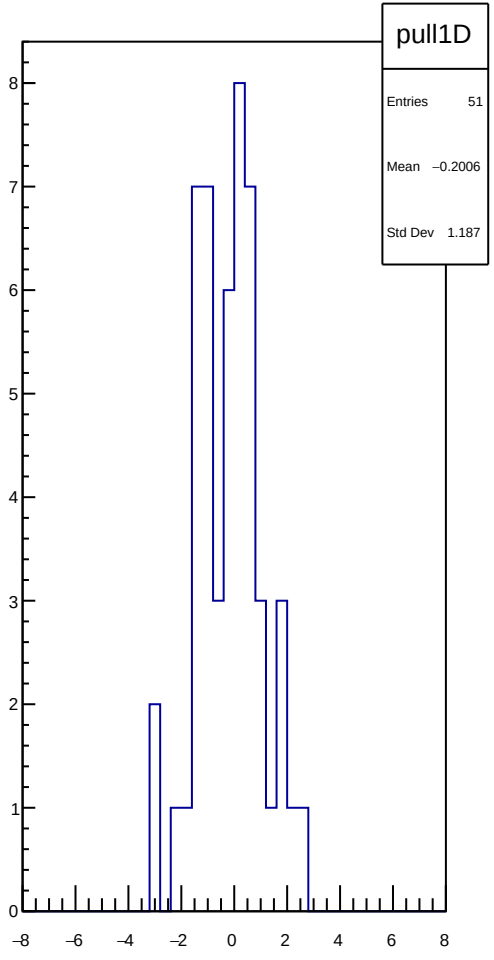

asym_dsr_rms vs run
×10^3
1000
900
800
700
600
500
400
300
200
100
χ² / ndf 1.158e+05 / 9
p0 1.407e+05 ± 514.4
8132. 2
8132. 4
8132. 5
8133. 5
8142. 0
8143. 1
8143. 2
8143. 3
8146. 6
8148. 7

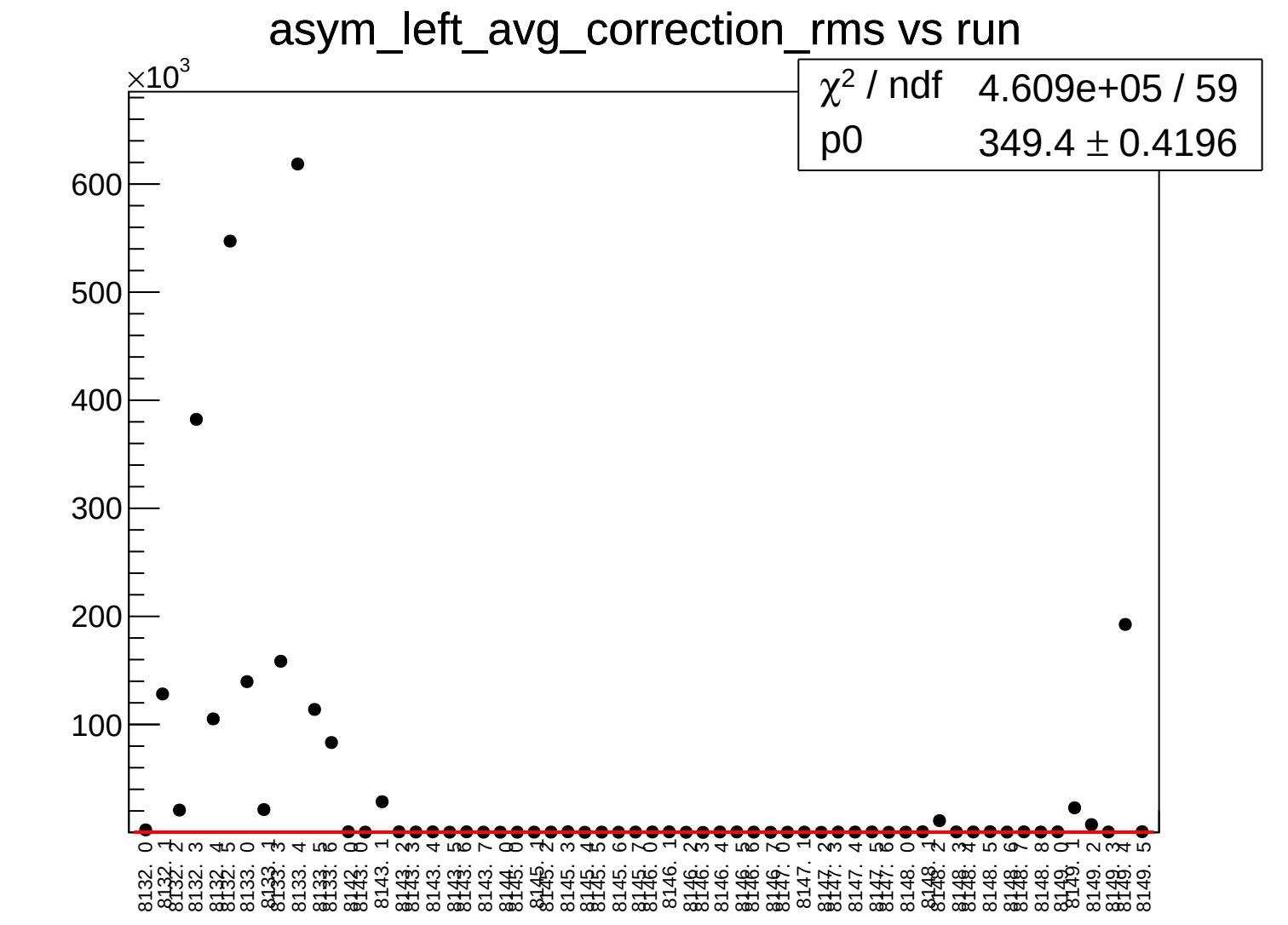

reg_asym_left_avg_mean vs run
×10^3
χ² / ndf 45.95 / 42
p0 −1.842e+04 ± 2.194e+04
400
200
0
−200
−400
−600
−800
−1000
8142. 0
8143. 0
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 3
8149. 5
pull
Entries 43
Mean 38.4
Std Dev 4.168
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

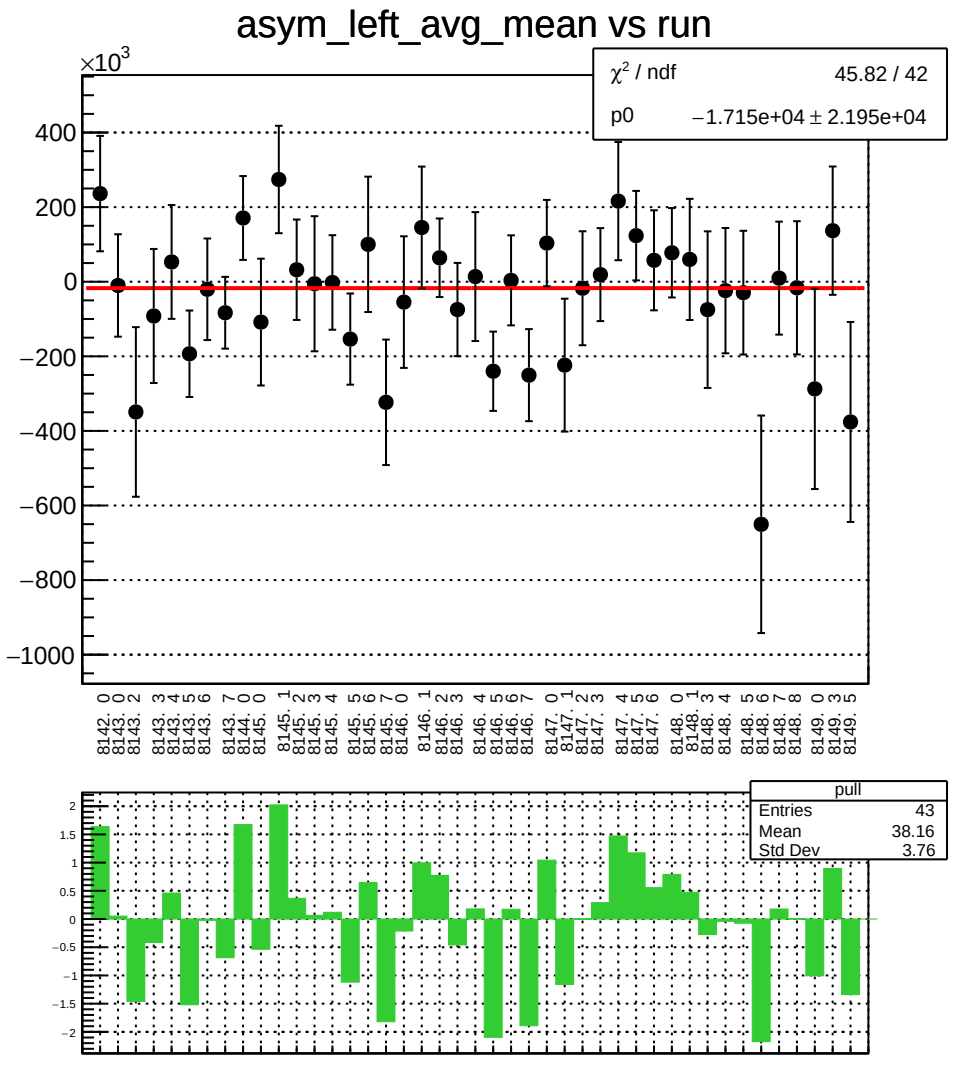

pull1D
Entries 43
Mean −0.05123
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

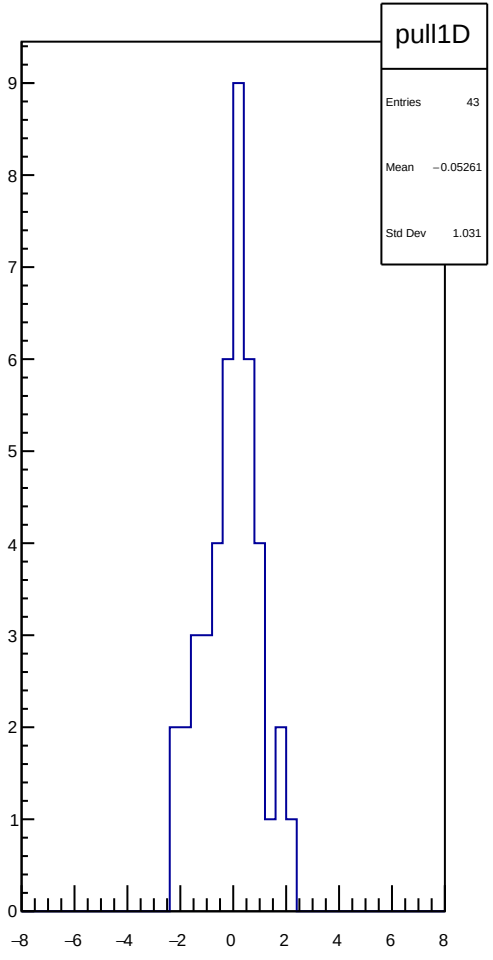

reg_asym_left_avg_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.136e+05 / 46
p0 1.363e+04 ± 15.51
8132. 0
8133. 1
8142. 0
8143. 0
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 2
8149. 3
8149. 5

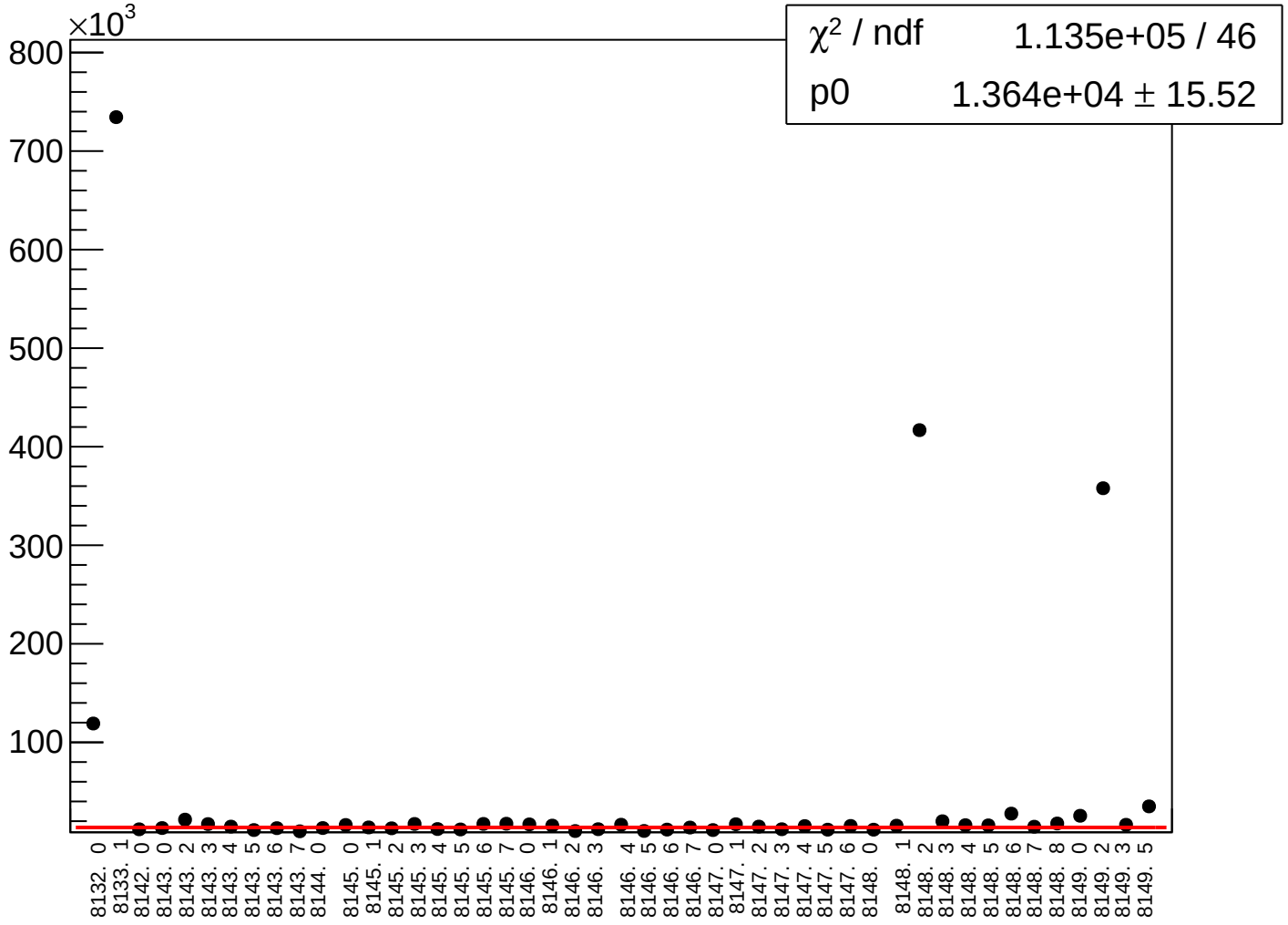

asym_left_avg_correction_mean vs run
χ² / ndf 73.88 / 50
p0 −147 ± 593.5
×10³
pull
Entries 51
Mean 29.03
Std Dev 12.62

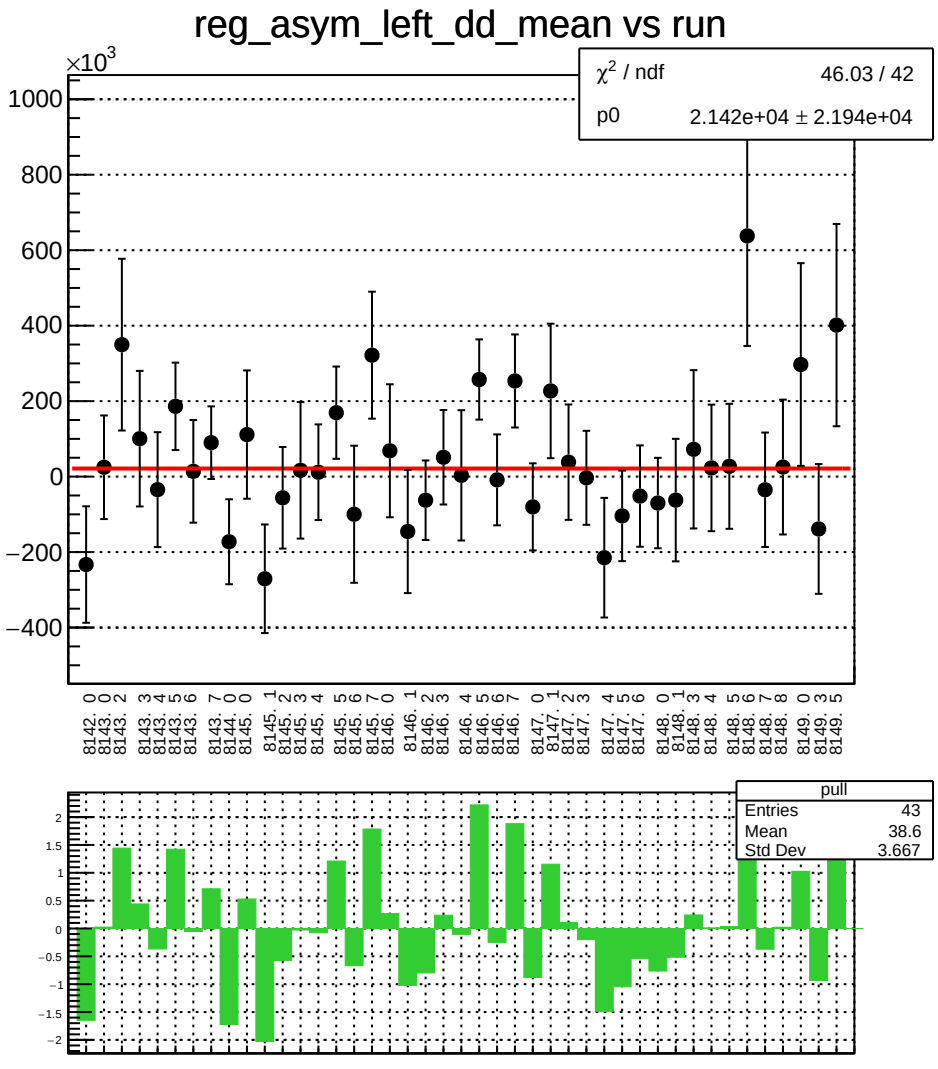

pull1D
Entries 51
Mean −0.2006
Std Dev 1.187

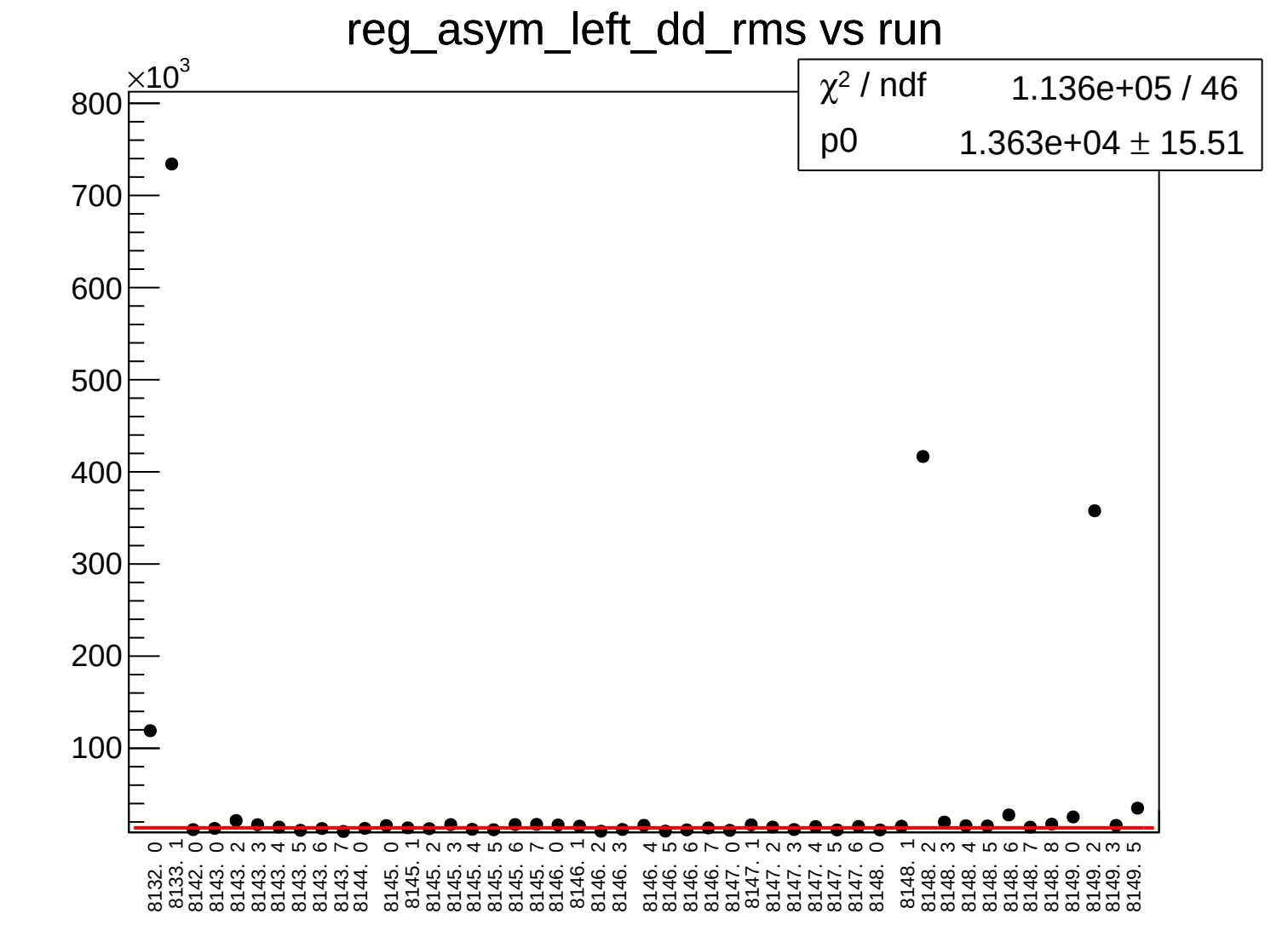

asym_left_avg_correction_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 4.609e+05 / 59
p0 349.4 ± 0.4196

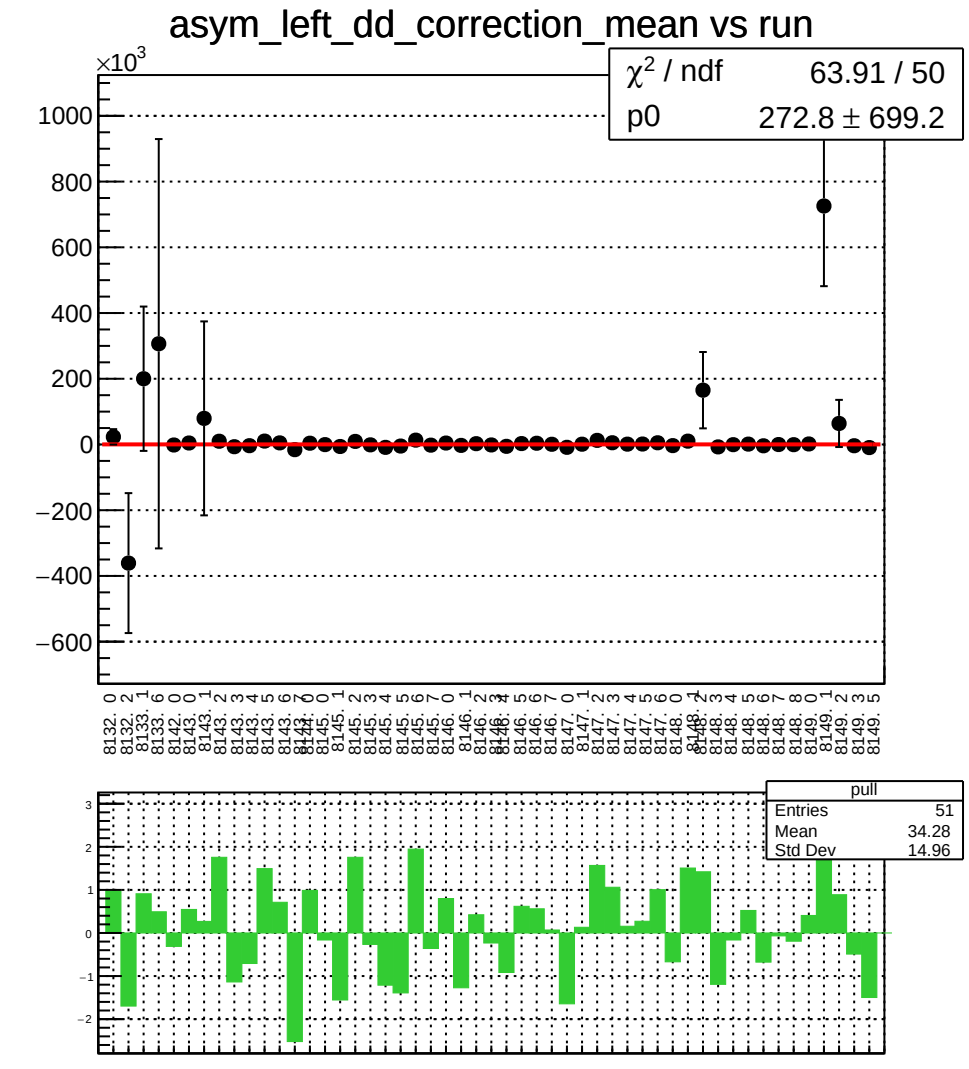

asym_left_avg_mean vs run
×10^3
χ² / ndf 45.82 / 42
p0 −1.715e+04 ± 2.195e+04
400
200
0
−200
−400
−600
−800
−1000
8142. 0
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 3
8149. 5
pull
Entries 43
Mean 38.16
Std Dev 3.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

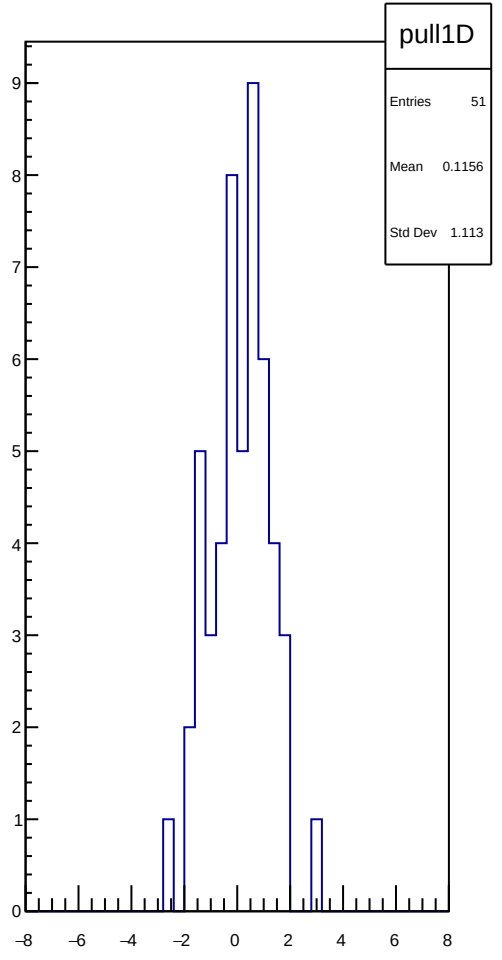

pull1D
Entries 43
Mean −0.05261
Std Dev 1.031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

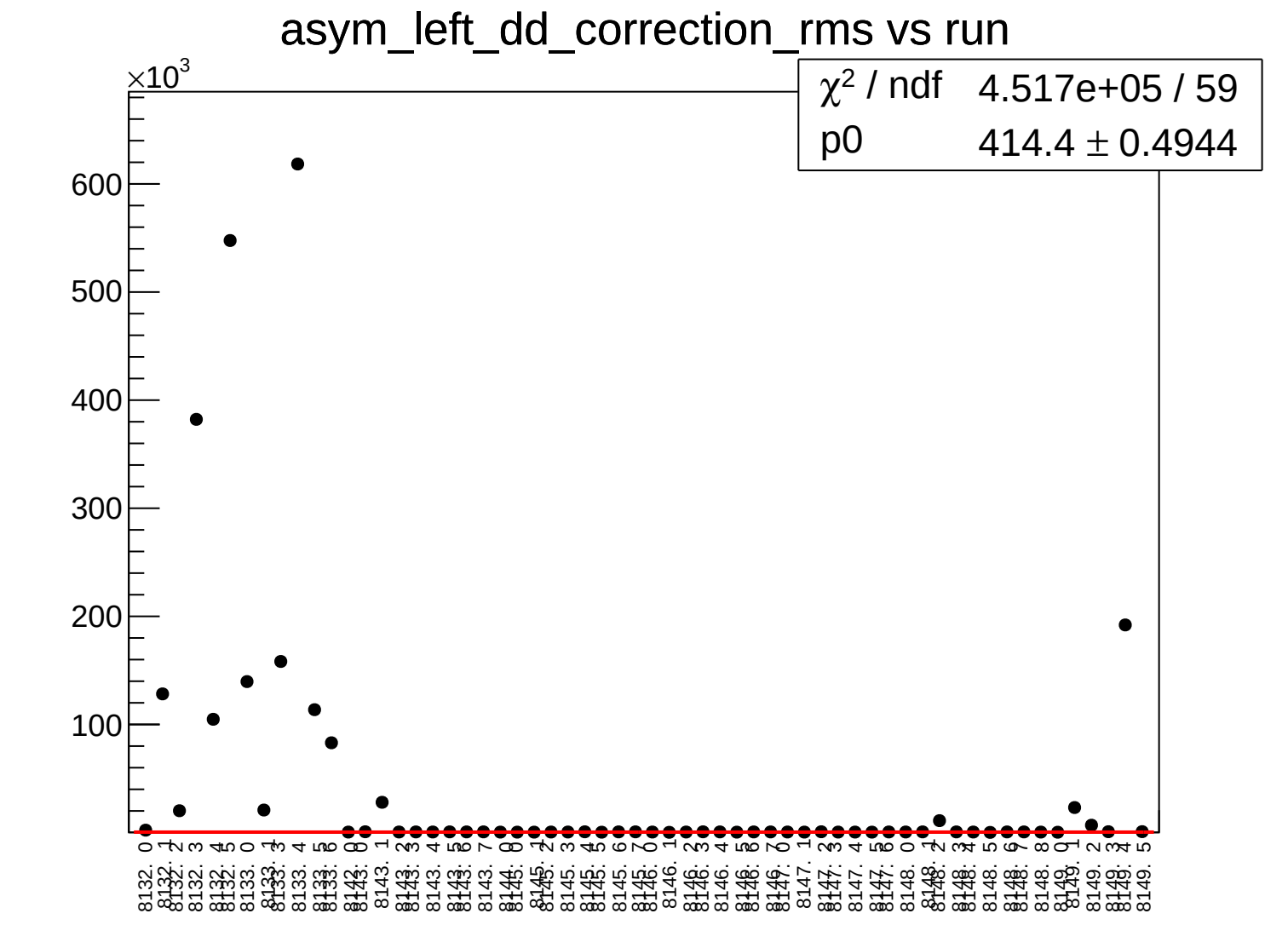

asym_left_avg_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.135e+05 / 46
p0 1.364e+04 ± 15.52
8132. 0
8133. 1
8142. 0
8143. 0
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 2
8149. 3
8149. 5

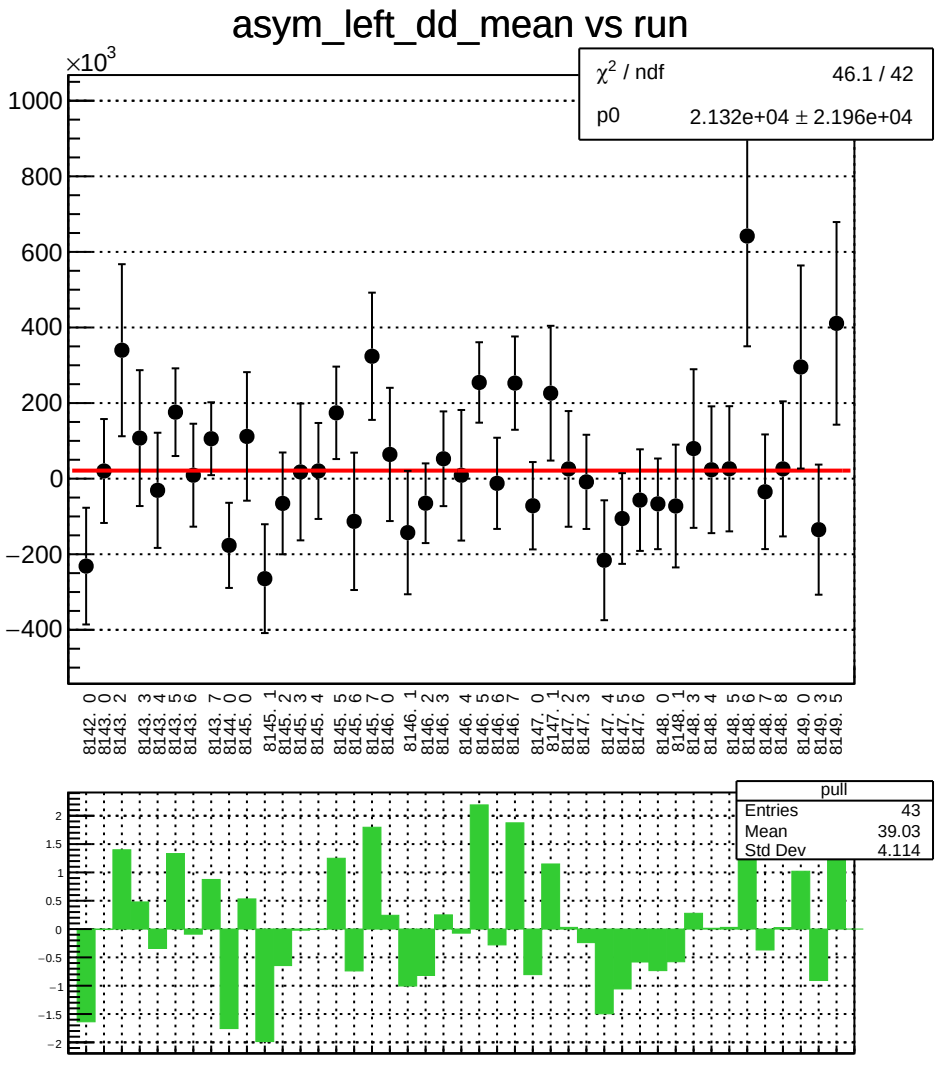

reg_asym_left_dd_mean vs run
×10^3
χ² / ndf 46.03 / 42
p0 2.142e+04 ± 2.194e+04
1000
800
600
400
200
0
−200
−400
8142. 0
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 3
8149. 5
pull
Entries 43
Mean 38.6
Std Dev 3.667
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.05163
Std Dev 1.033
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

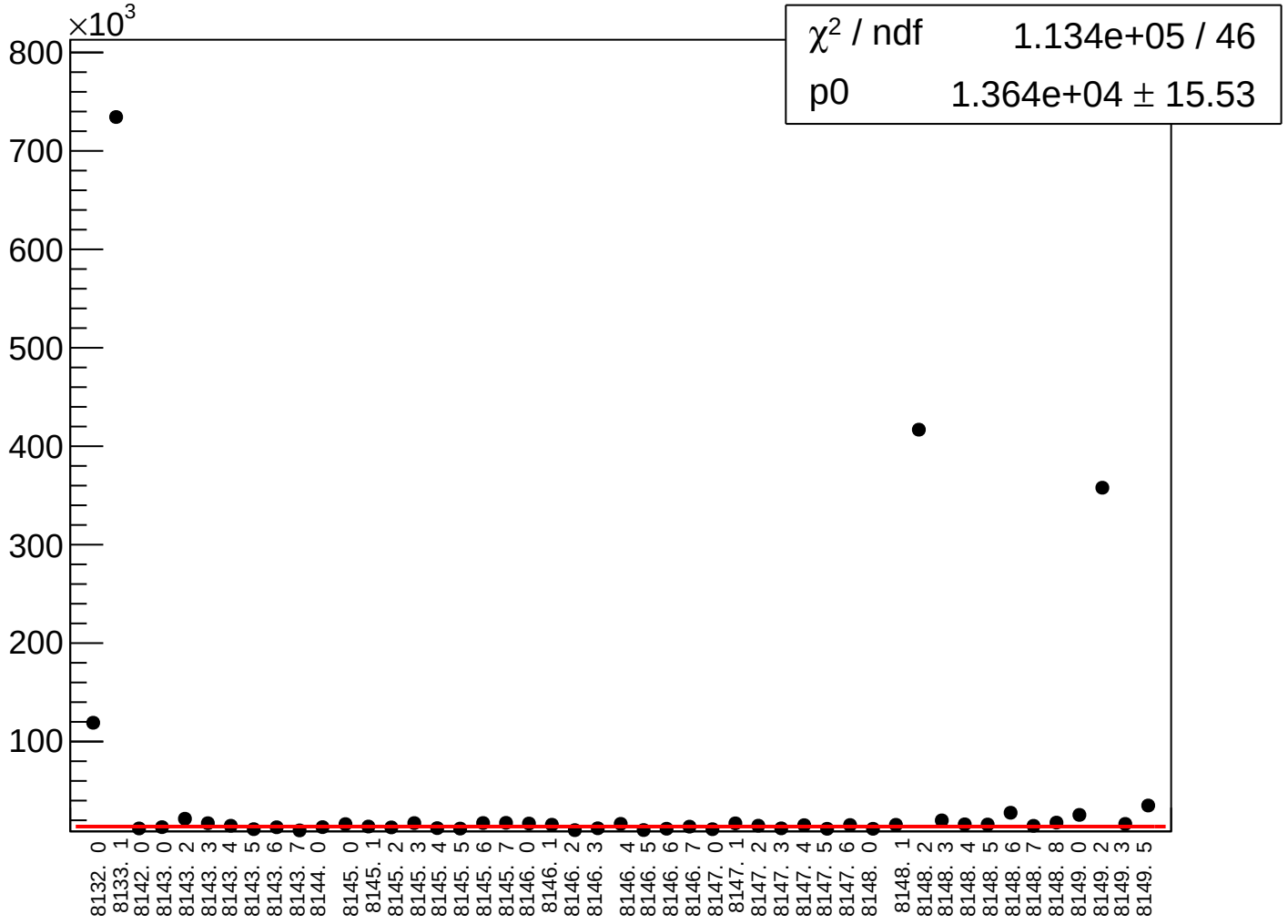

reg_asym_left_dd_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.136e+05 / 46
p0 1.363e+04 ± 15.51
8132. 0
8133. 1
8142. 0
8143. 0
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 2
8149. 3
8149. 5

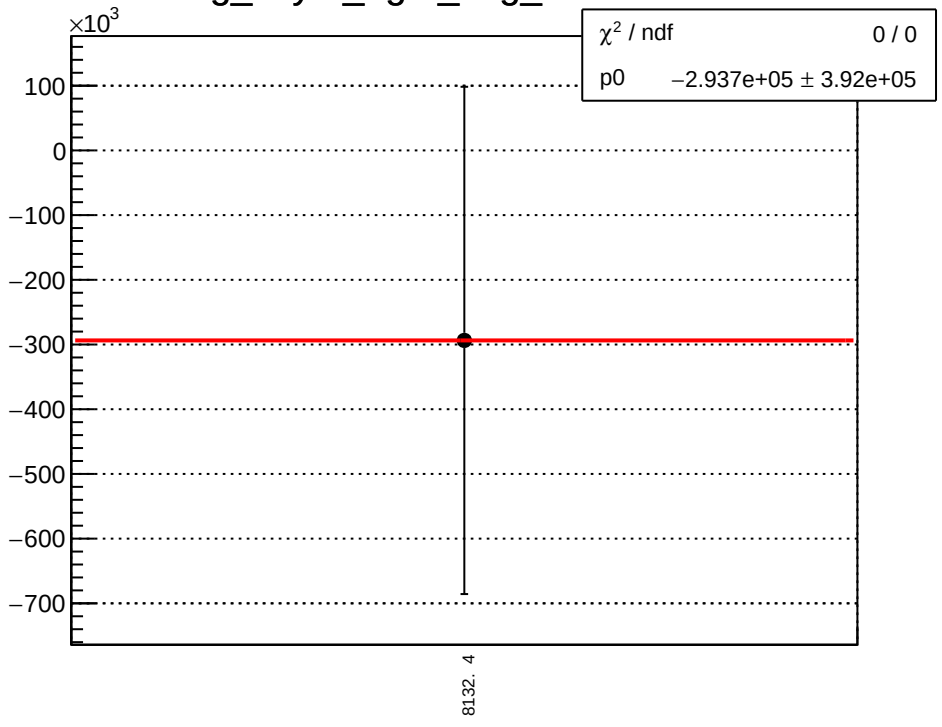

asym_left_dd_correction_mean vs run
χ² / ndf 63.91 / 50
p0 272.8 ± 699.2
pull
Entries 51
Mean 34.28
Std Dev 14.96

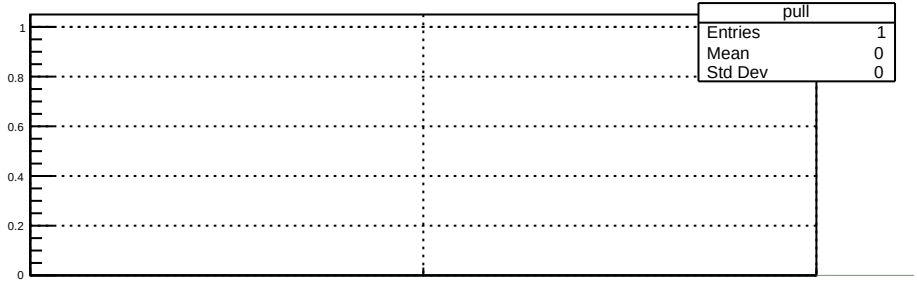

pull1D
Entries 51
Mean 0.1156
Std Dev 1.113

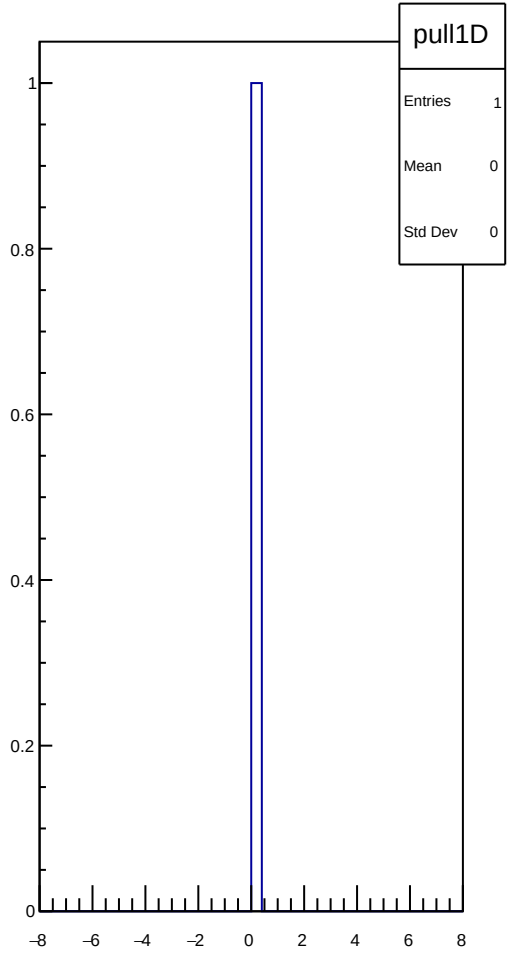

asym_left_dd_correction_rms vs run
×10^3
χ² / ndf 4.517e+05 / 59
p0 414.4 ± 0.4944
600
500
400
300
200
100

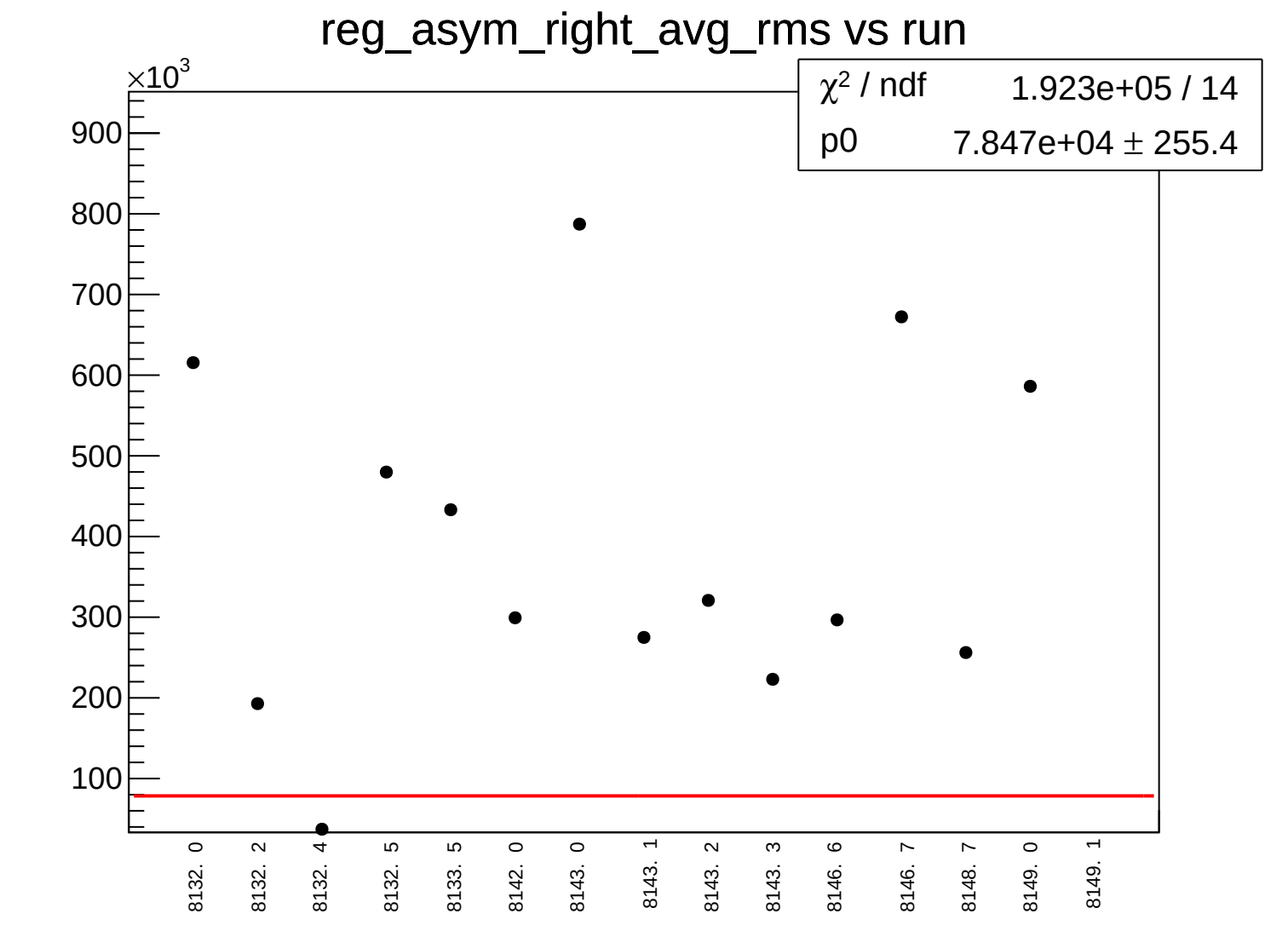

asym_left_dd_mean vs run
×10^3
χ² / ndf 46.1 / 42
p0 2.132e+04 ± 2.196e+04
1000
800
600
400
200
0
−200
−400
8142. 0
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 3
8149. 5
pull
Entries 43
Mean 39.03
Std Dev 4.114
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.05073
Std Dev 1.034
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

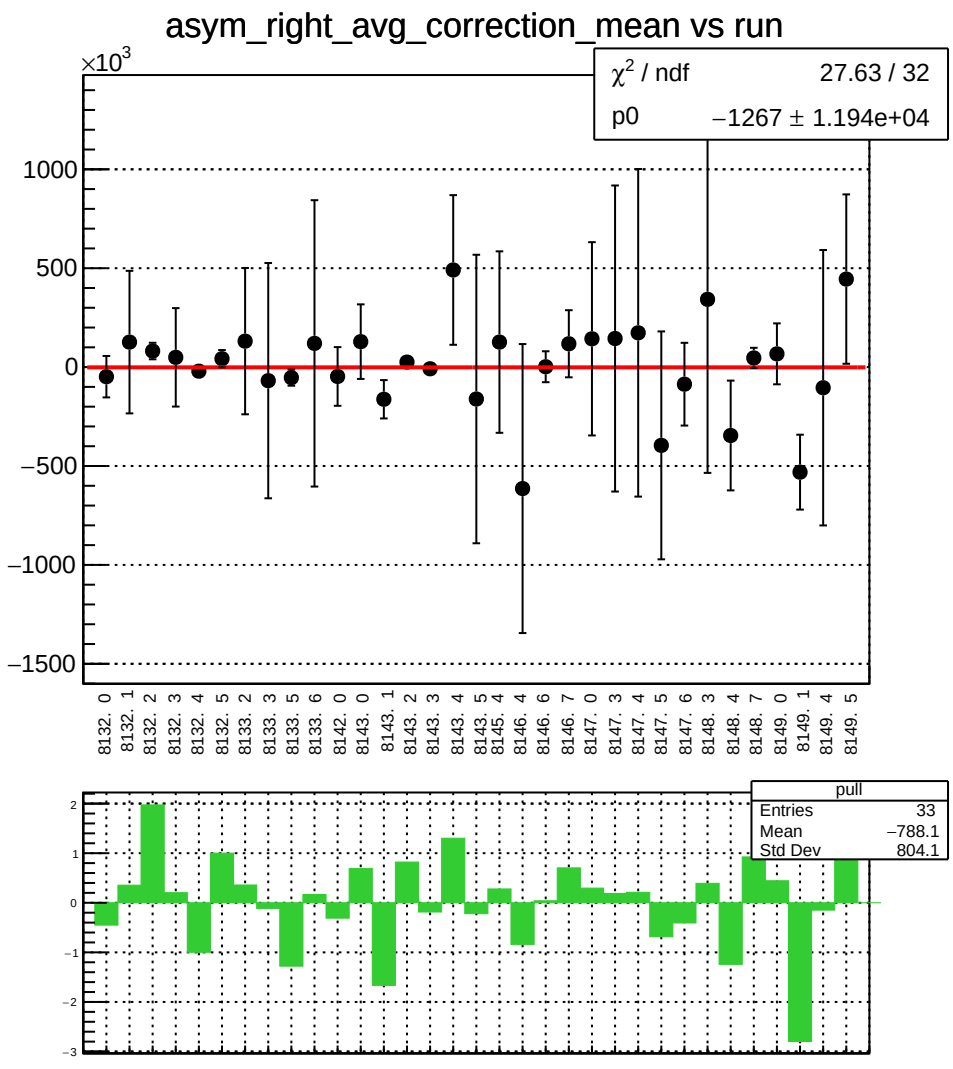

asym_left_dd_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.134e+05 / 46
p0 1.364e+04 ± 15.53
8132. 0
8133. 1
8142. 0
8143. 0
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 2
8149. 3
8149. 5

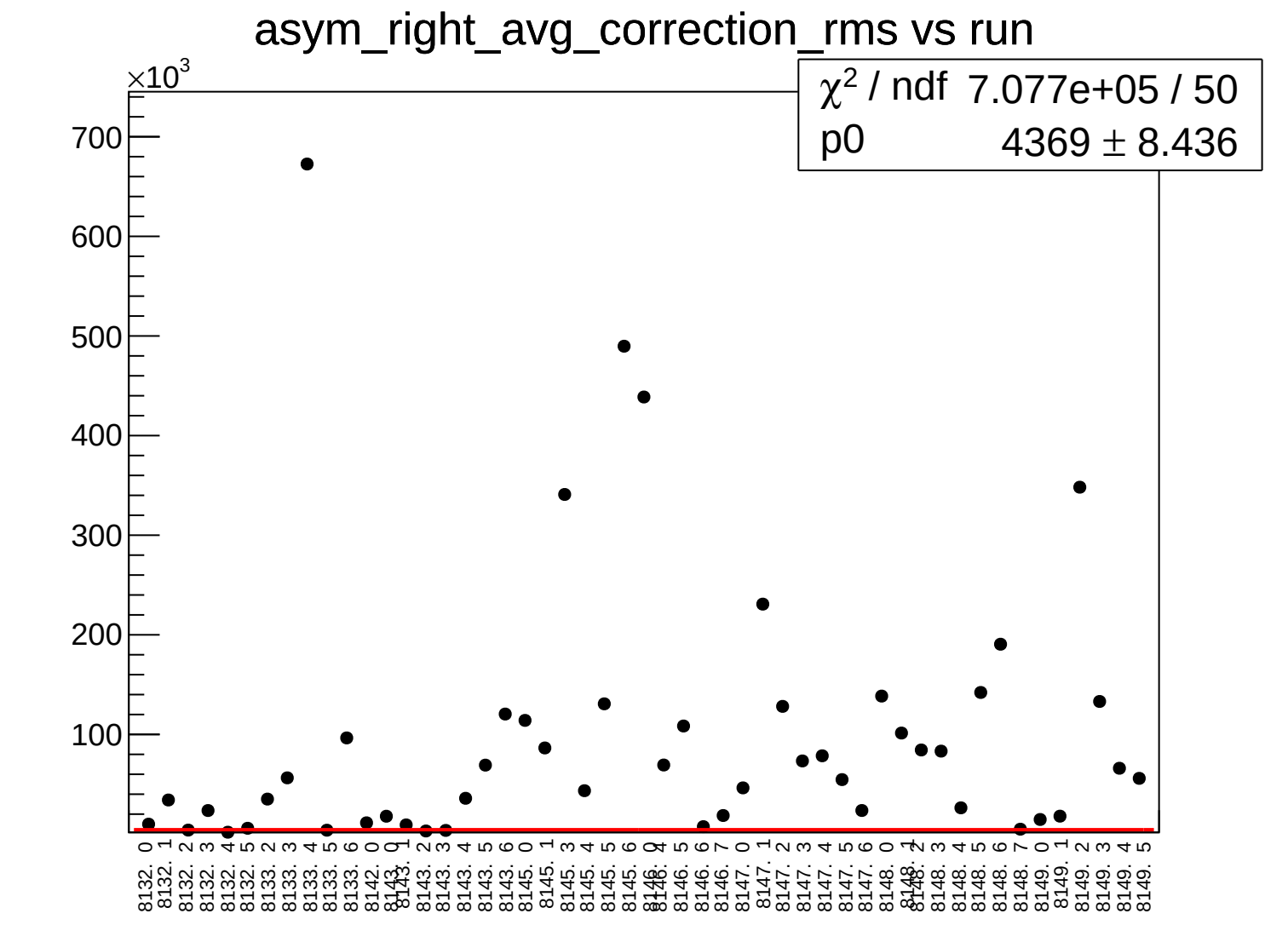

reg_asym_right_avg_mean vs run
×10^3
χ² / ndf 0 / 0
p0 −2.937e+05 ± 3.92e+05
100
0
−100
−200
−300
−400
−500
−600
−700
8132. 4

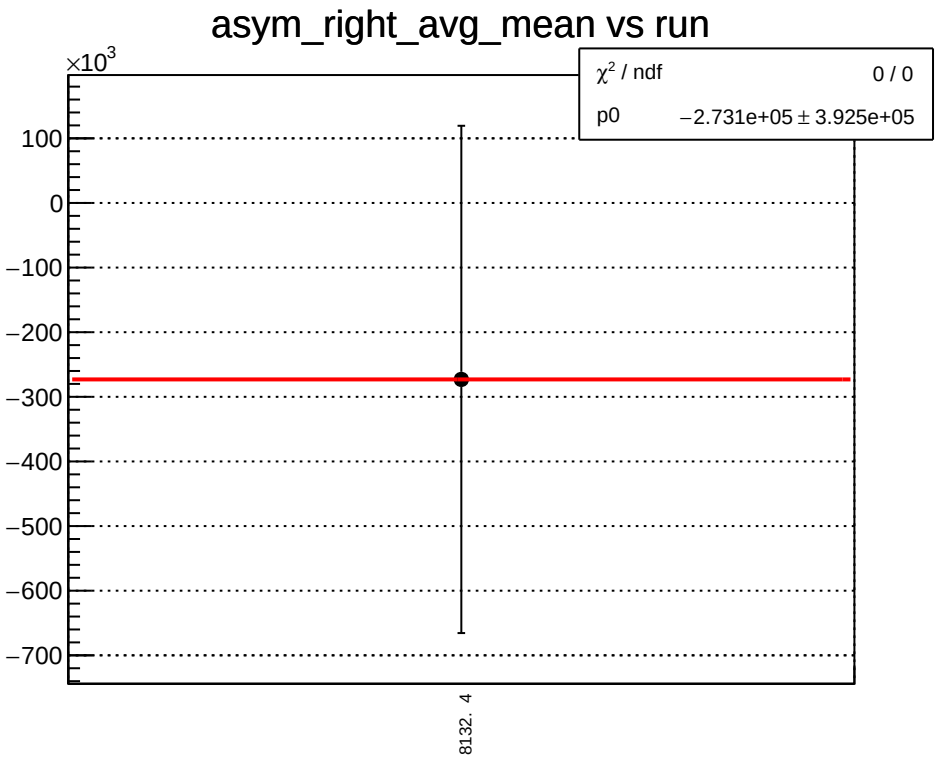

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

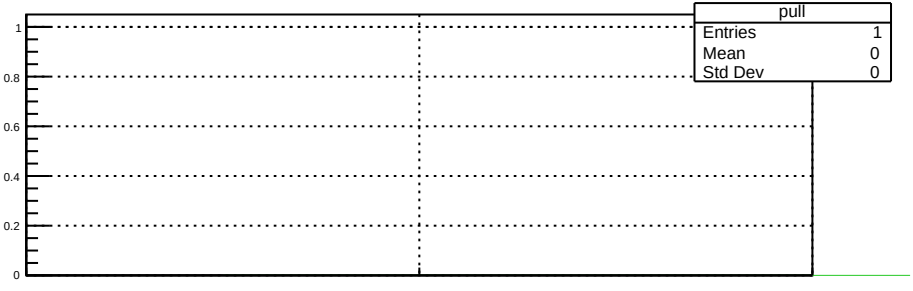

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

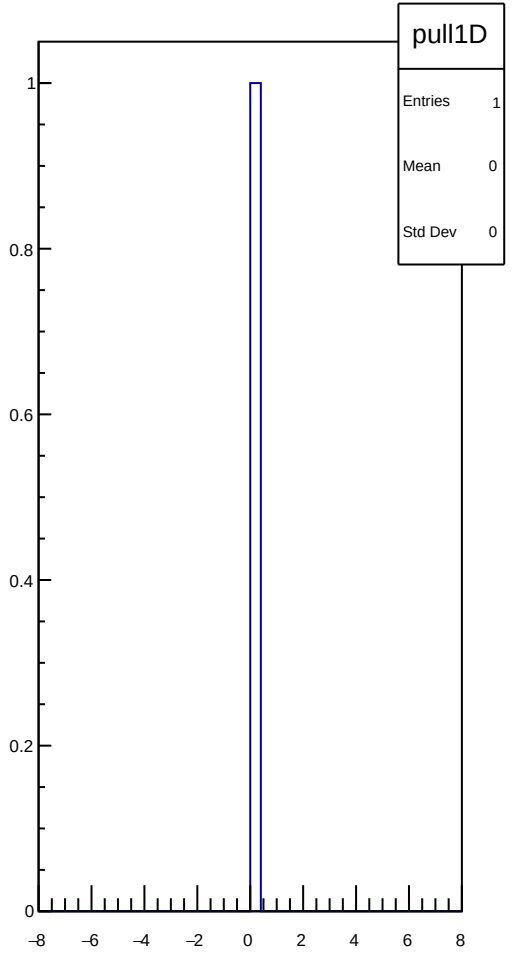

reg_asym_right_avg_rms vs run
×10^3
χ² / ndf 1.923e+05 / 14
p0 7.847e+04 ± 255.4
900
800
700
600
500
400
300
200
100
8132. 0
8132. 2
8132. 4
8132. 5
8133. 5
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8146. 6
8146. 7
8148. 7
8149. 0
8149. 1

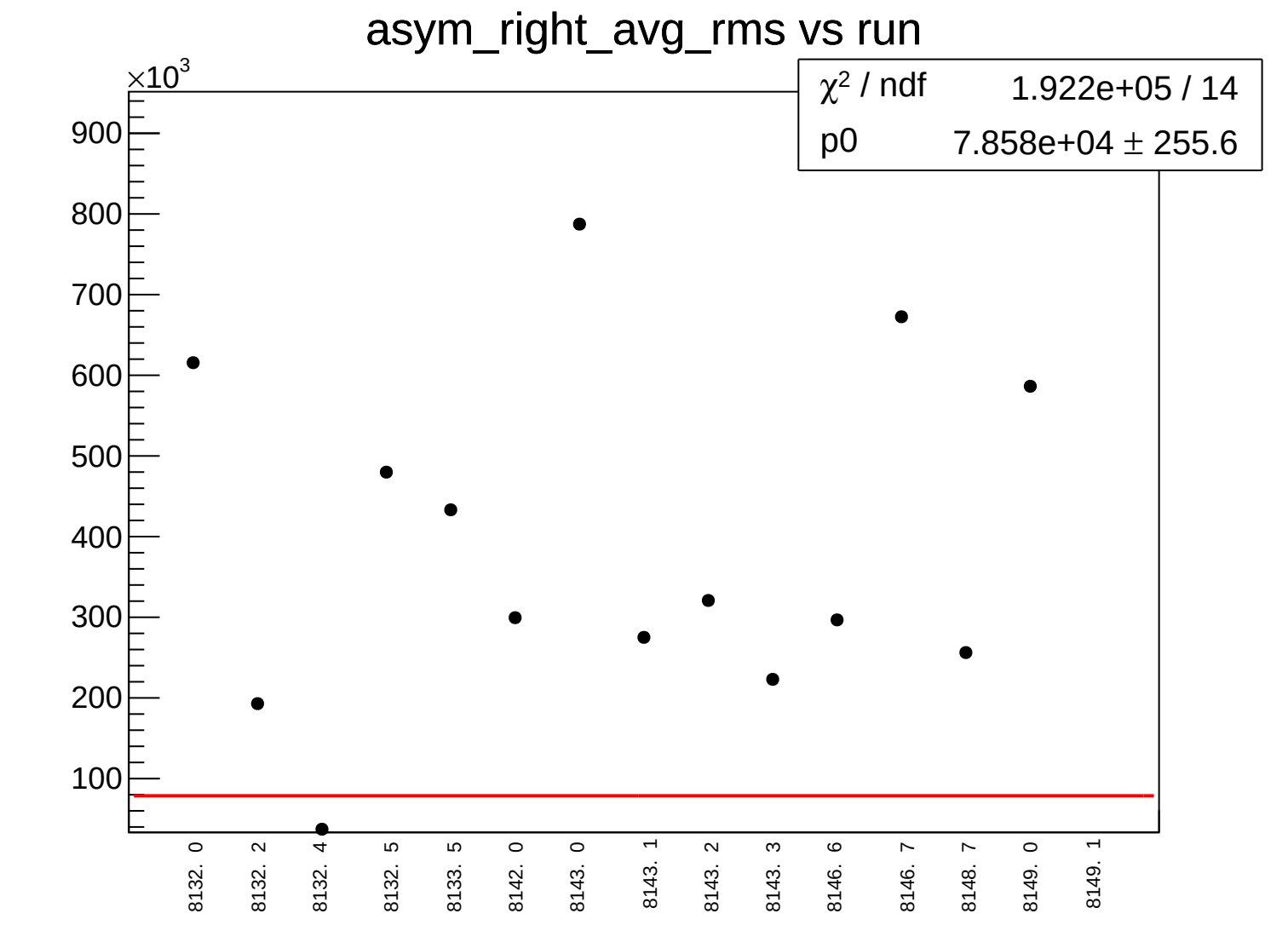

asym_right_avg_correction_mean vs run
×10^3
χ² / ndf 27.63 / 32
p0 −1267 ± 1.194e+04
1000
500
0
−500
−1000
−1500
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 2
8133. 3
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8145. 4
8146. 4
8146. 6
8146. 7
8147. 0
8147. 3
8147. 4
8147. 5
8147. 6
8148. 3
8148. 4
8148. 7
8149. 0
8149. 1
8149. 4
8149. 5
pull
Entries 33
Mean −788.1
Std Dev 804.1
pull1D
Entries 33
Mean 0.00152
Std Dev 0.915

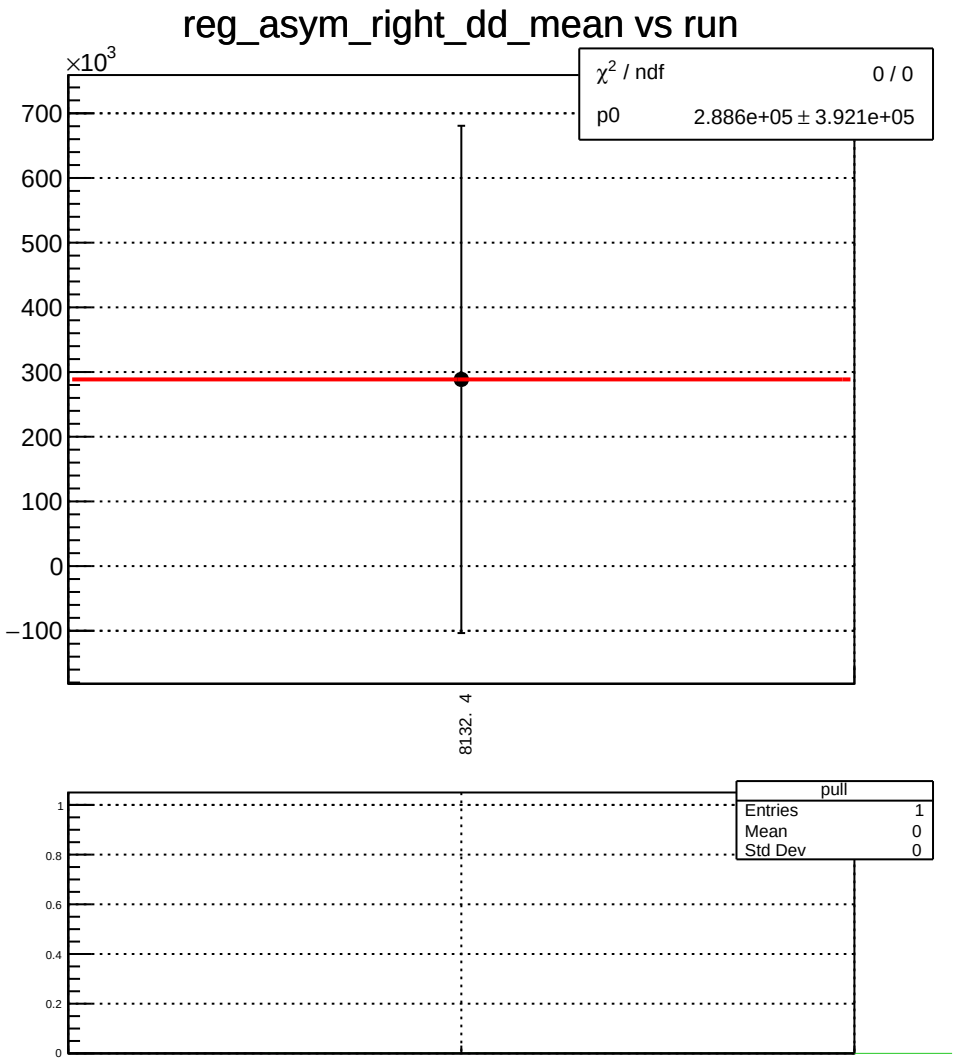

asym_right_avg_correction_rms vs run
×10^3
χ² / ndf 7.077e+05 / 50
p0 4369 ± 8.436
700
600
500
400
300
200
100
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 2
8133. 3
8133. 4
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8145. 0
8145. 1
8145. 3
8145. 4
8145. 5
8145. 6
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

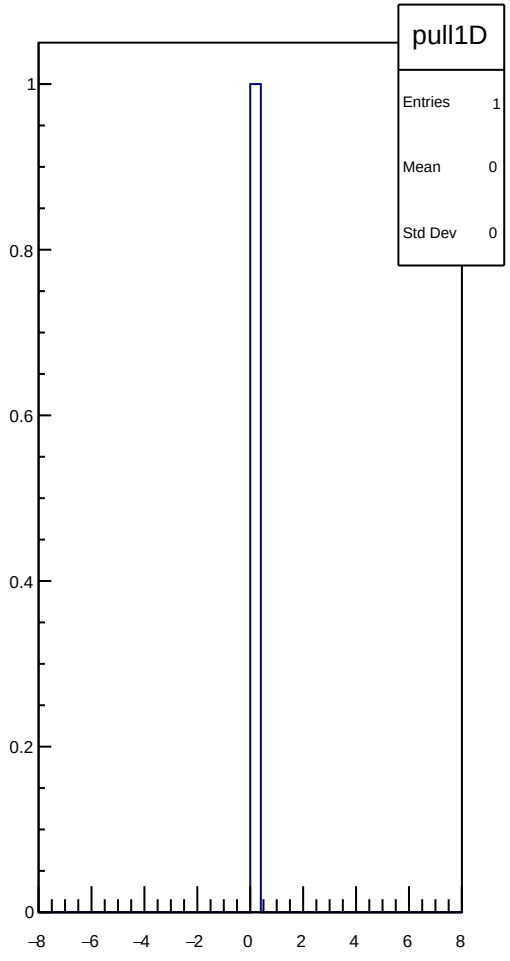

asym_right_avg_mean vs run
×10^3
χ² / ndf 0 / 0
p0 −2.731e+05 ± 3.925e+05
100
0
−100
−200
−300
−400
−500
−600
−700
8132. 4

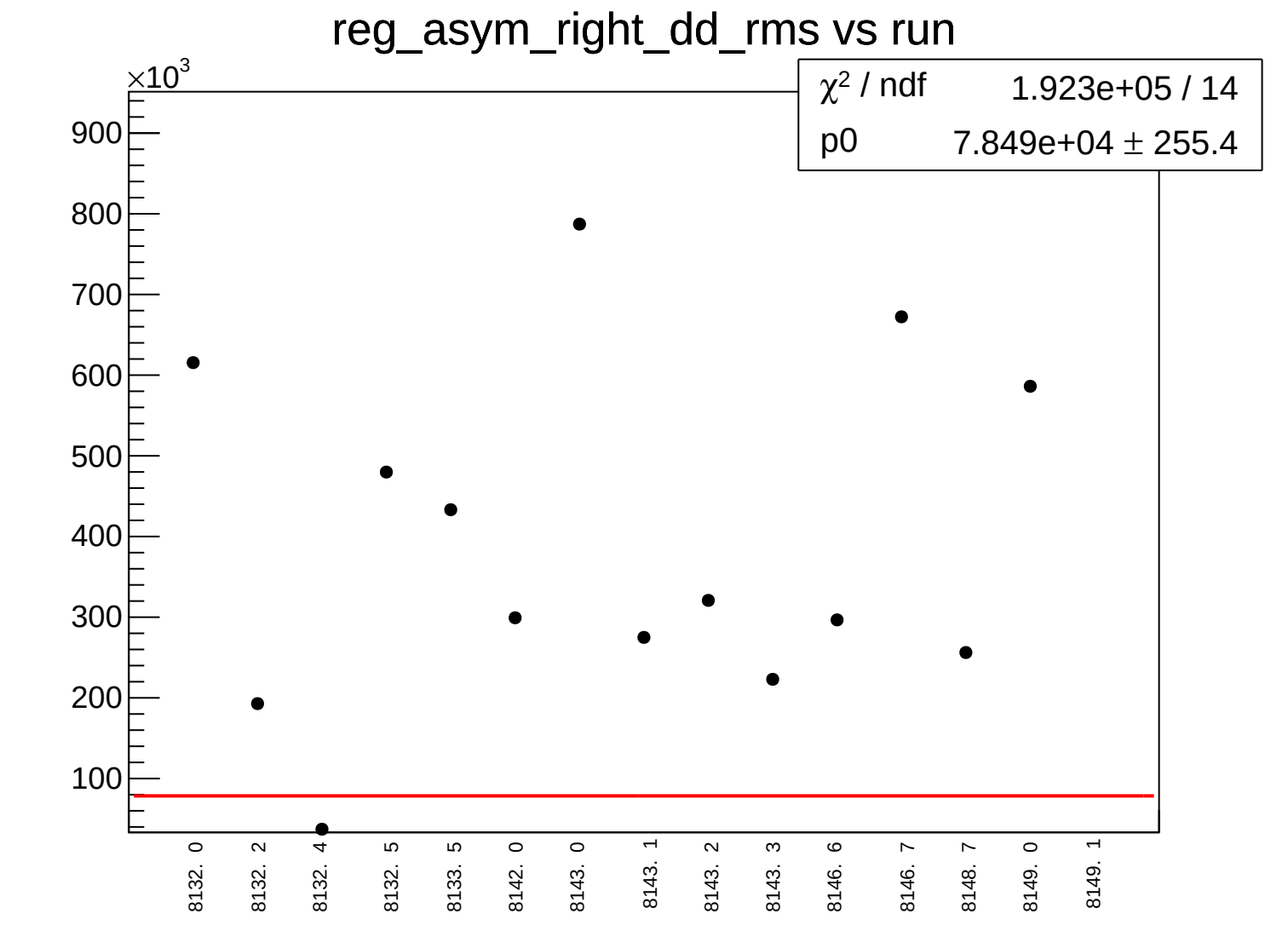

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

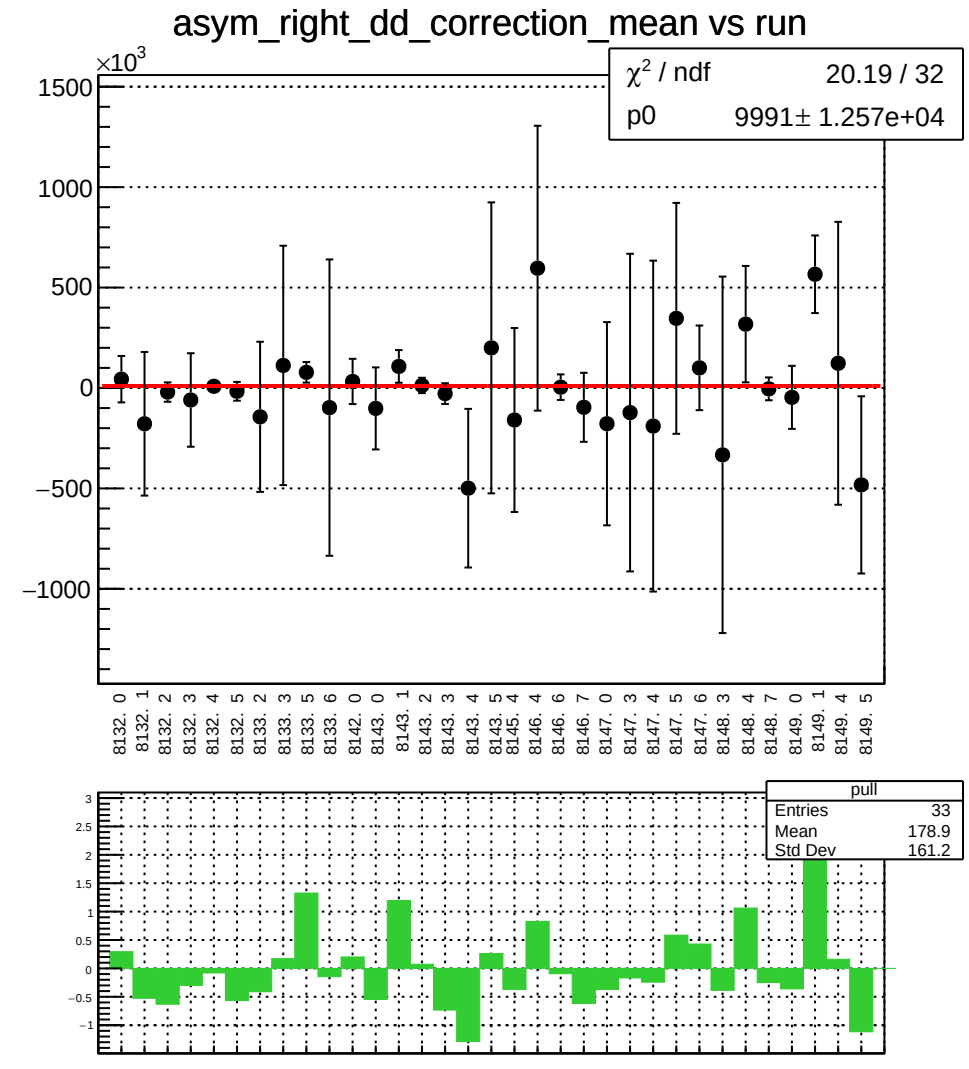

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

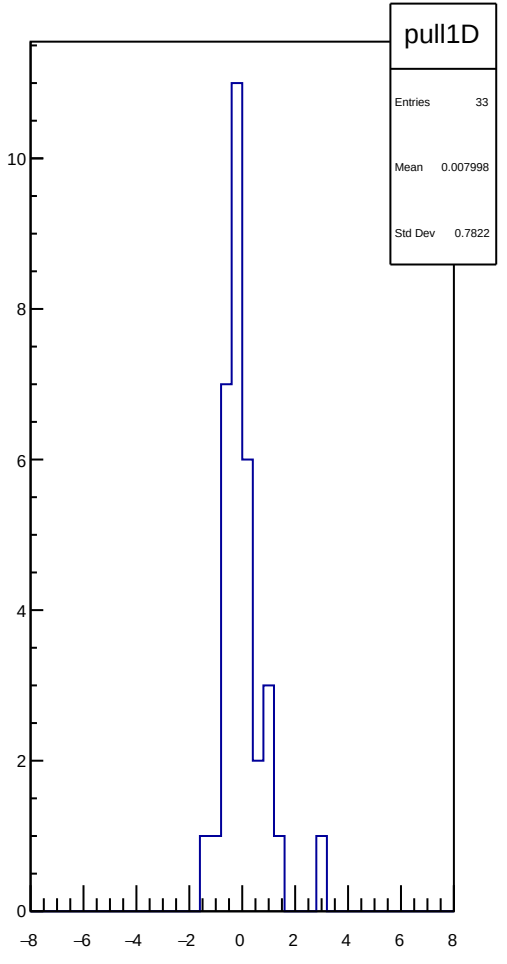

asym_right_avg_rms vs run
×10^3
900
800
700
600
500
400
300
200
100
χ² / ndf 1.922e+05 / 14
p0 7.858e+04 ± 255.6
8132. 0
8132. 2
8132. 4
8132. 5
8133. 5
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8146. 6
8146. 7
8148. 7
8149. 0
8149. 1

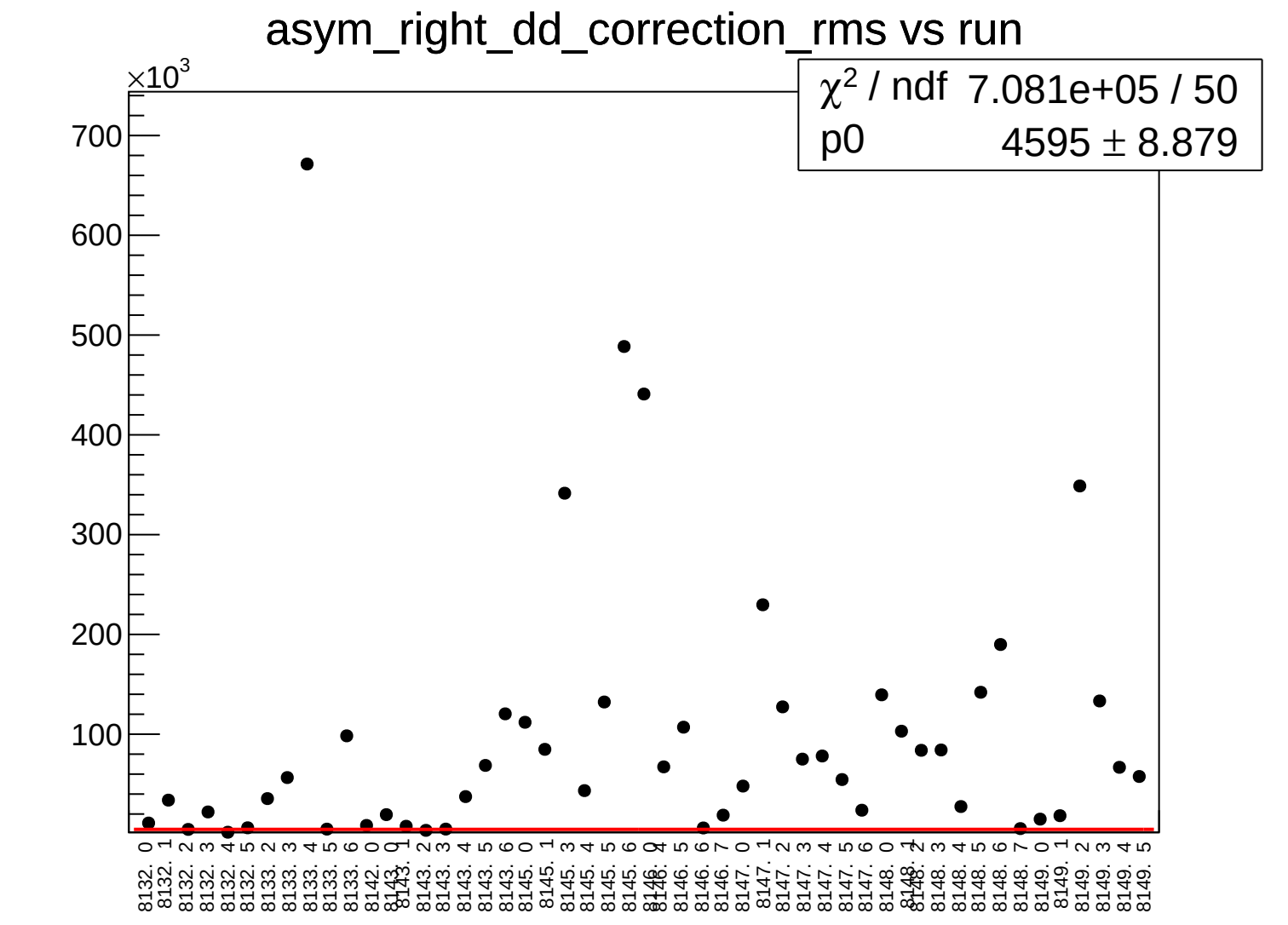

reg_asym_right_dd_mean vs run
×10^3
χ² / ndf 0 / 0
p0 2.886e+05 ± 3.921e+05
700
600
500
400
300
200
100
0
−100
8132. 4
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

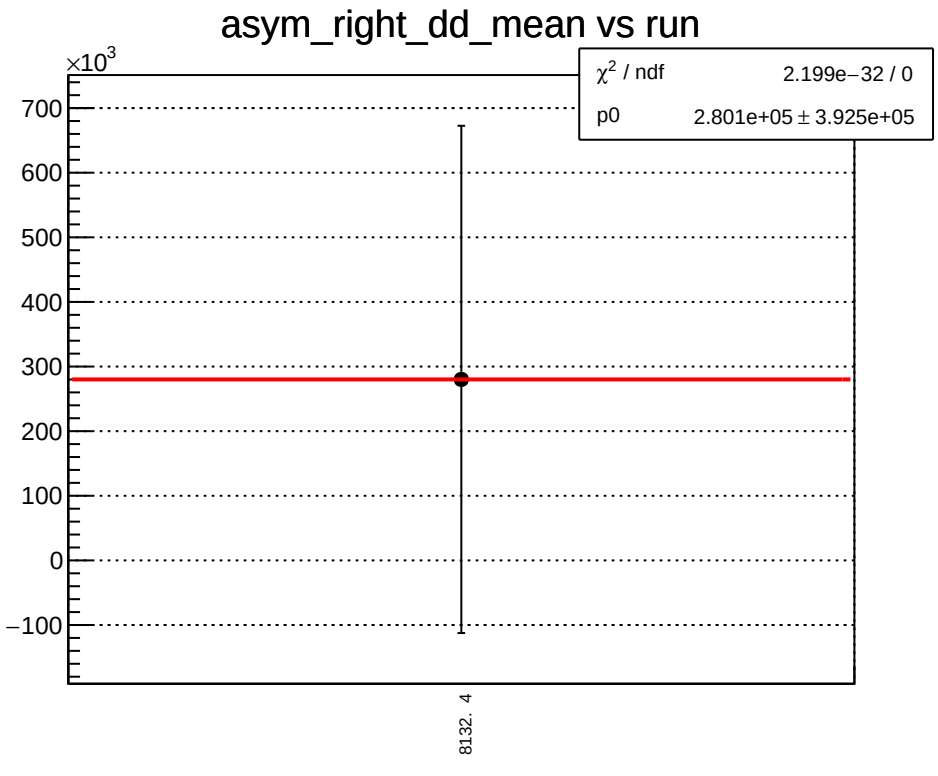

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

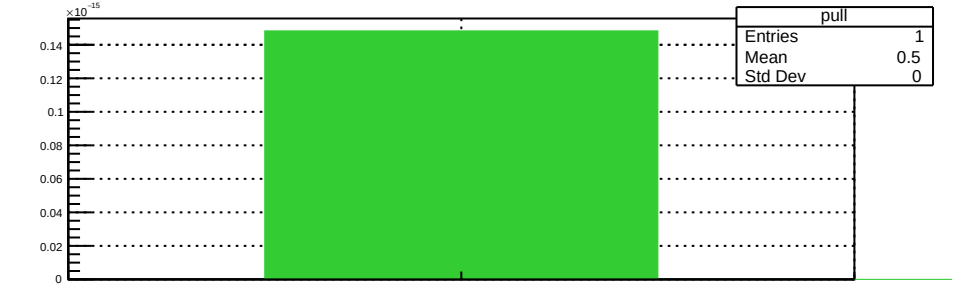

reg_asym_right_dd_rms vs run
×10^3
χ² / ndf 1.923e+05 / 14
p0 7.849e+04 ± 255.4
900
800
700
600
500
400
300
200
100
8132. 0
8132. 2
8132. 4
8132. 5
8133. 5
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8146. 6
8146. 7
8148. 7
8149. 0
8149. 1

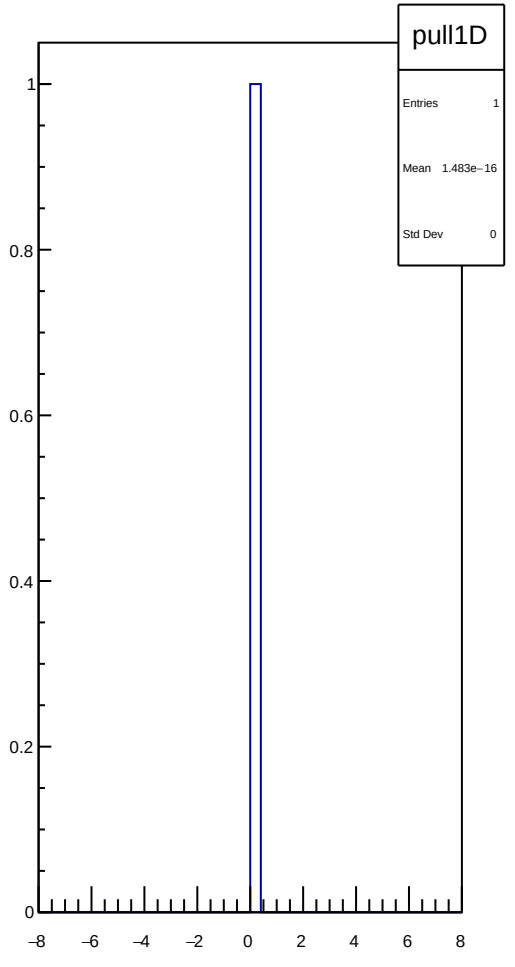

asym_right_dd_correction_mean vs run
×10^3
χ² / ndf 20.19 / 32
p0 9991± 1.257e+04
1500
1000
500
0
−500
−1000
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 2
8133. 3
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8145. 4
8146. 4
8146. 6
8146. 7
8147. 0
8147. 3
8147. 4
8147. 5
8147. 6
8148. 3
8148. 4
8148. 7
8149. 0
8149. 1
8149. 4
8149. 5
pull
Entries 33
Mean 178.9
Std Dev 161.2
3
2.5
2
1.5
1
0.5
0
−0.5
−1

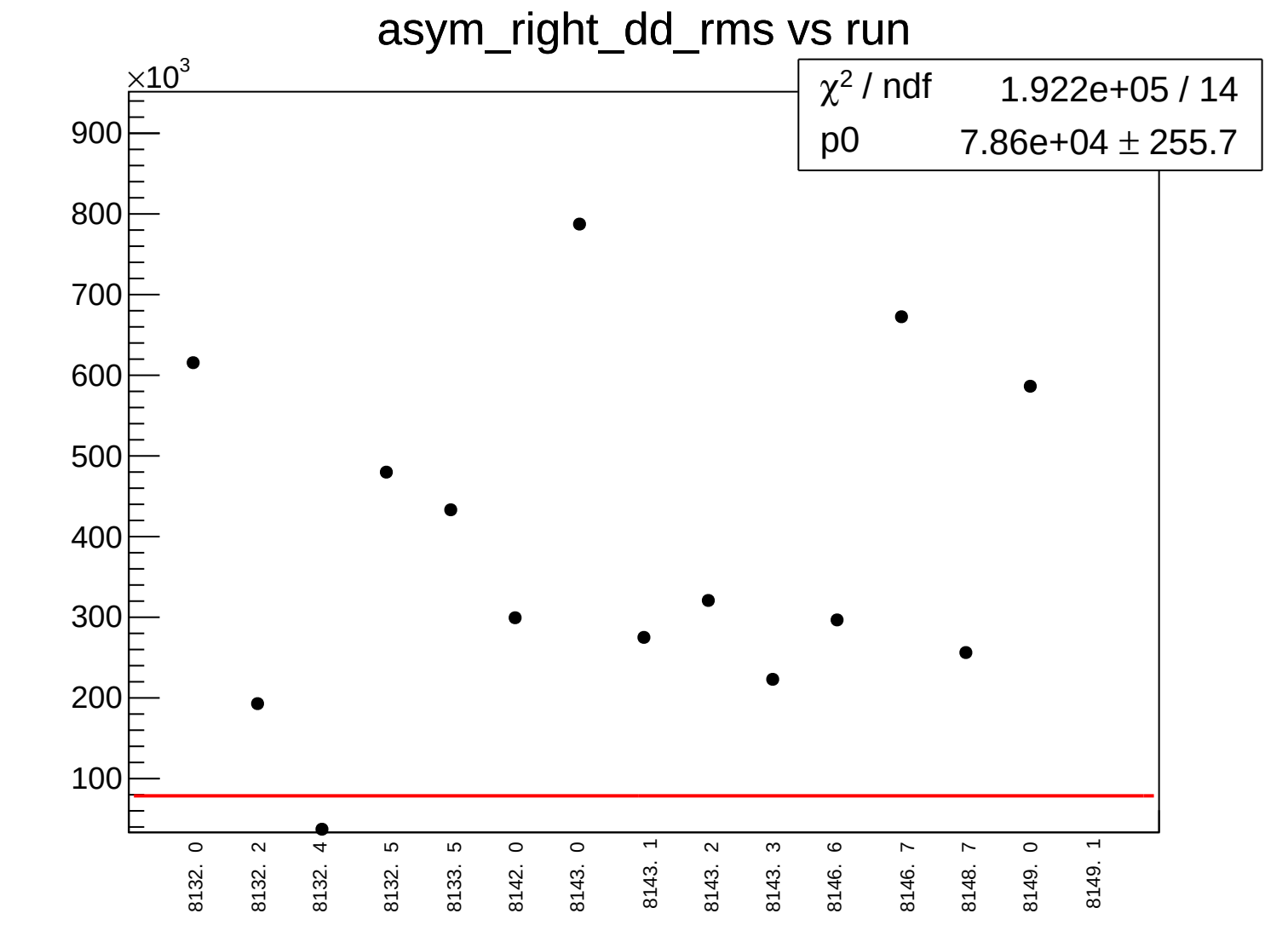

pull1D
Entries 33
Mean 0.007998
Std Dev 0.7822
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

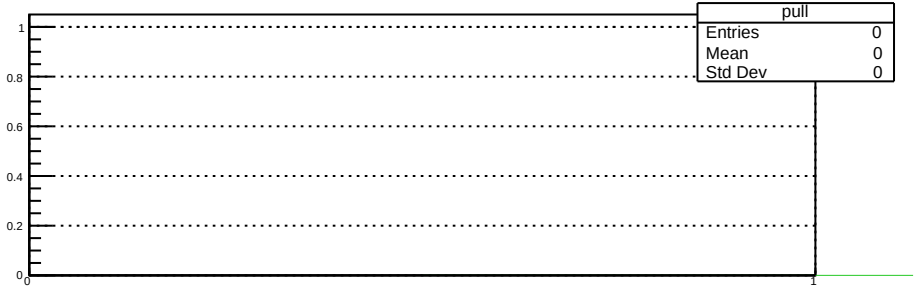

asym_right_dd_correction_rms vs run
×10^3
χ^2 / ndf 7.081e+05 / 50
p0 4595 ± 8.879
700
600
500
400
300
200
100
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 2
8133. 3
8133. 4
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8145. 0
8145. 1
8145. 3
8145. 4
8145. 5
8145. 6
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

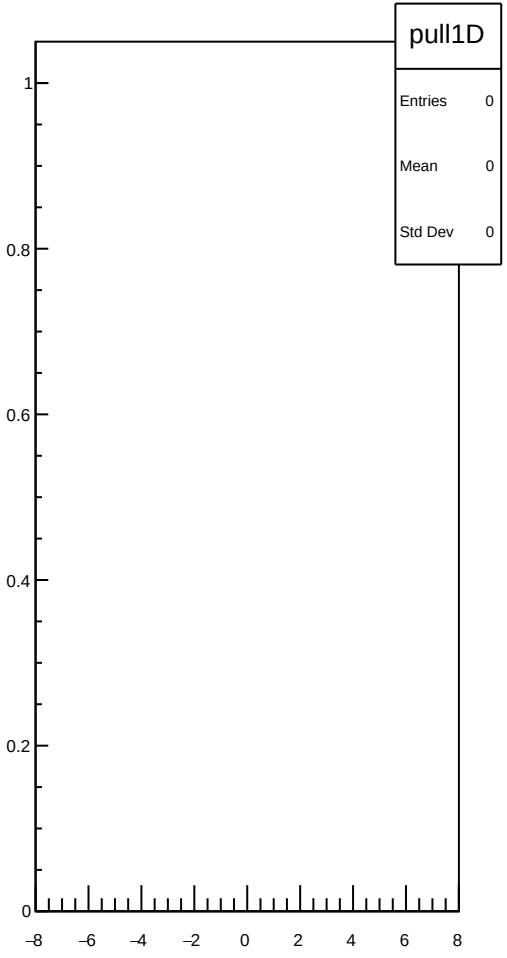

asym_right_dd_mean vs run
×10^3
700
600
500
400
300
200
100
0
−100
χ² / ndf 2.199e−32 / 0
p0 2.801e+05 ± 3.925e+05
8132. 4

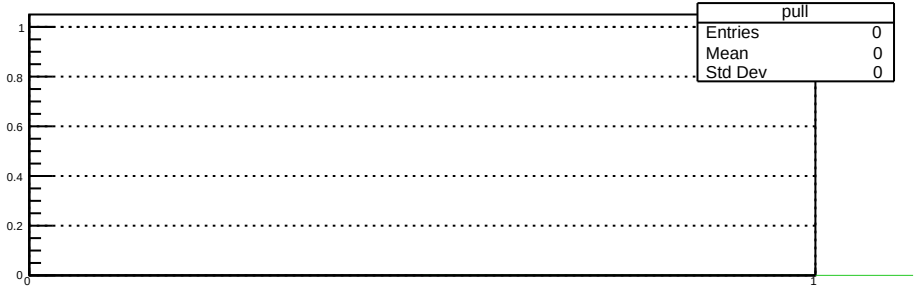

×10^-15
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0

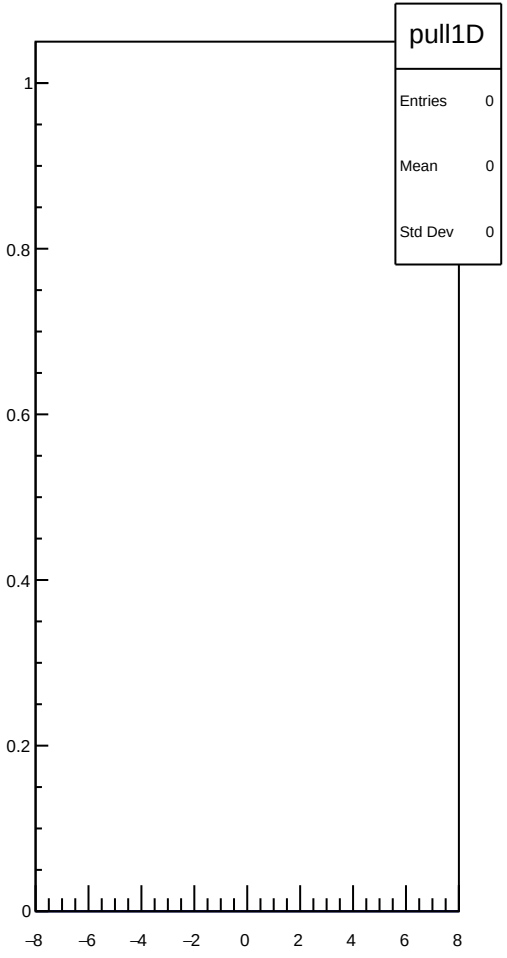

pull1D
Entries 1
Mean 1.483e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

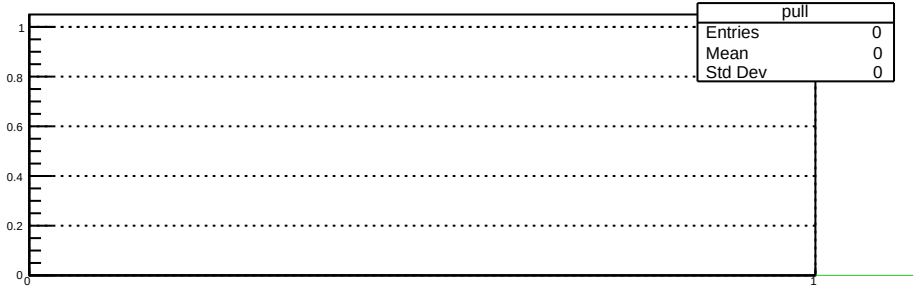

asym_right_dd_rms vs run
χ^2 / ndf 1.922e+05 / 14
p0 7.86e+04 ± 255.7
×10^3
900
800
700
600
500
400
300
200
100
8132. 0
8132. 2
8132. 4
8132. 5
8133. 5
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8146. 6
8146. 7
8148. 7
8149. 0
8149. 1

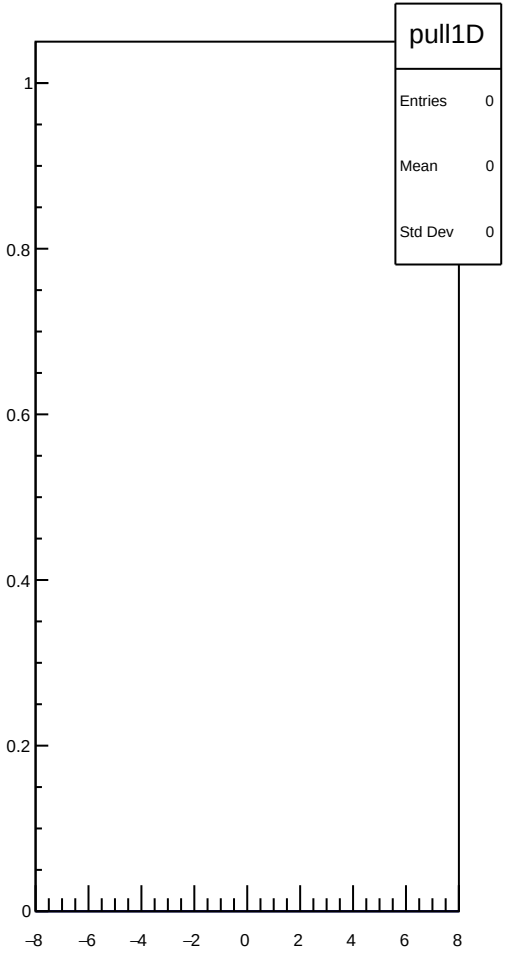

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

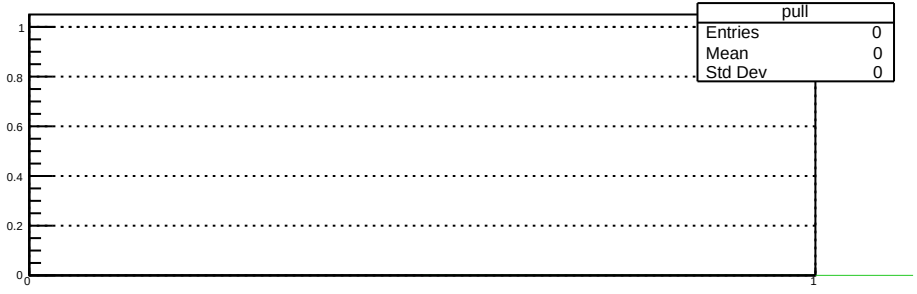

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

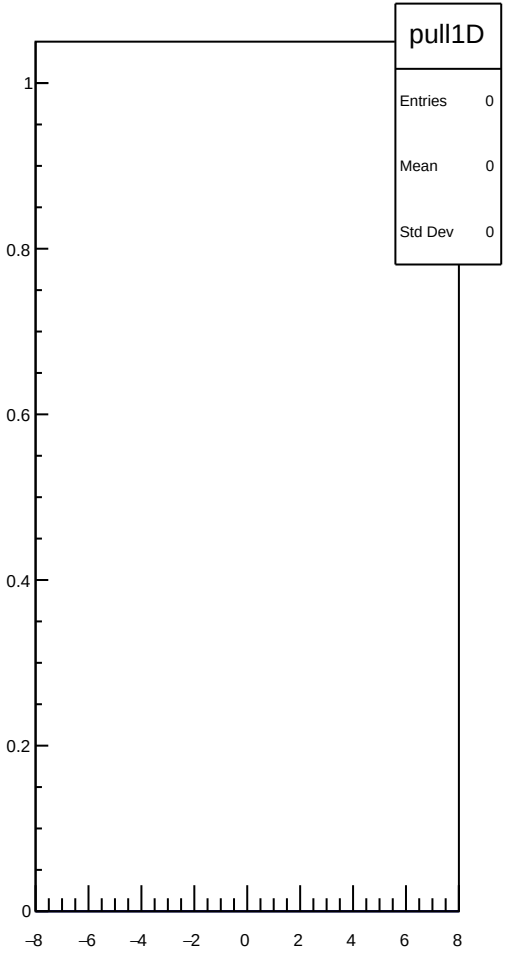

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

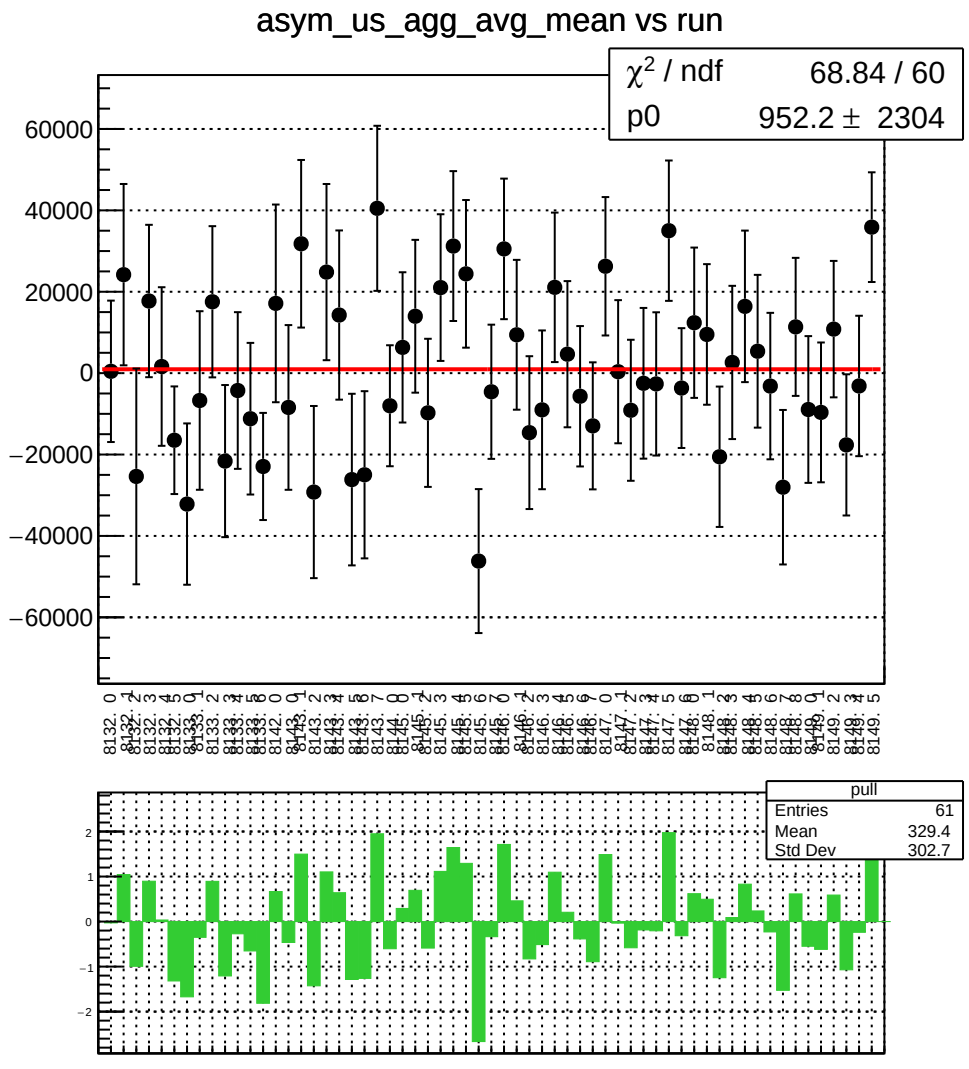

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

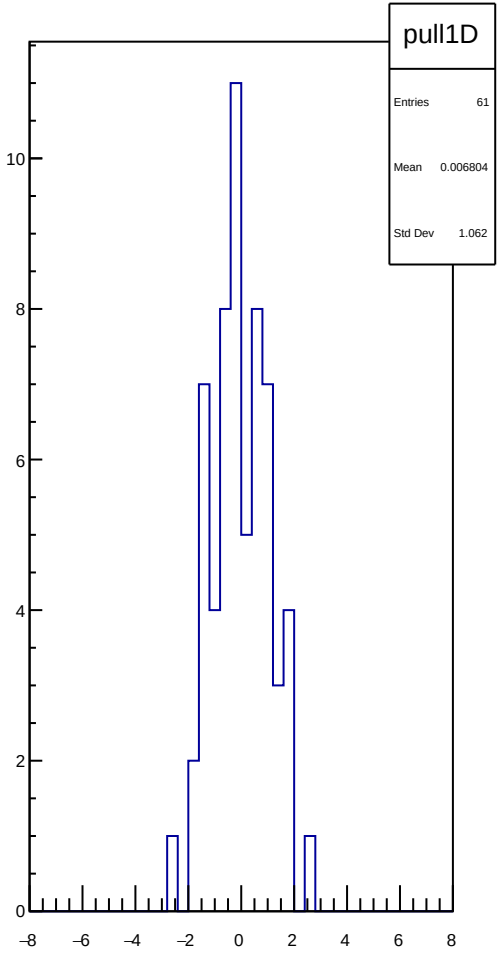

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

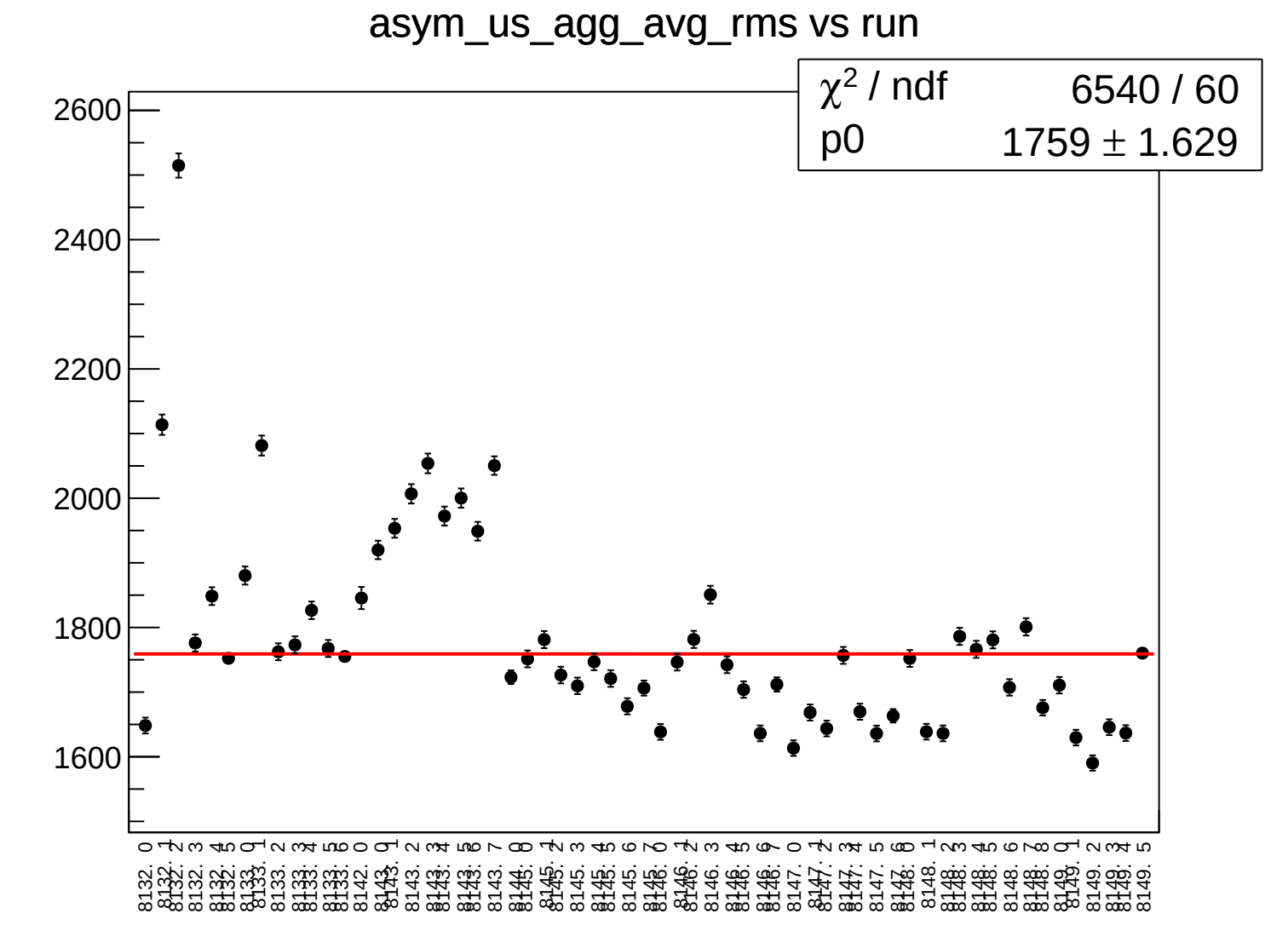

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

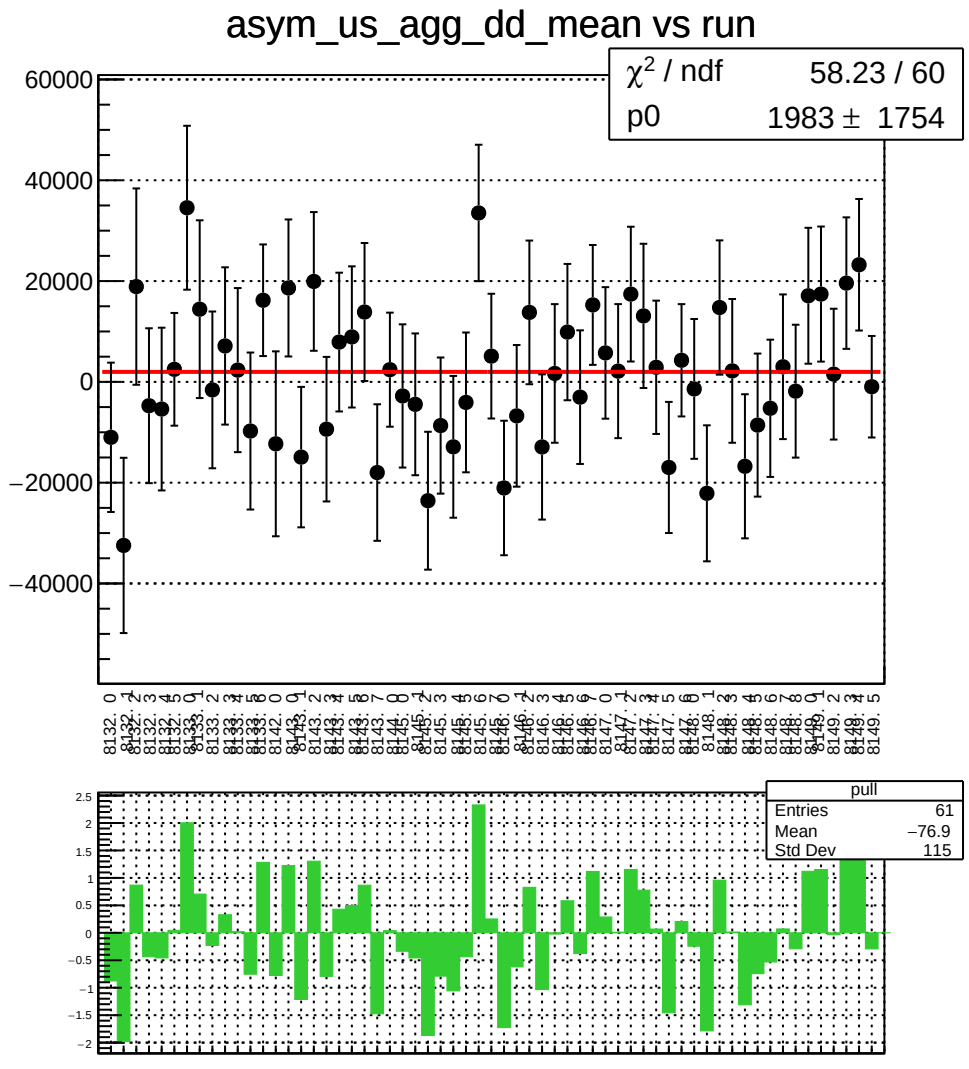

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

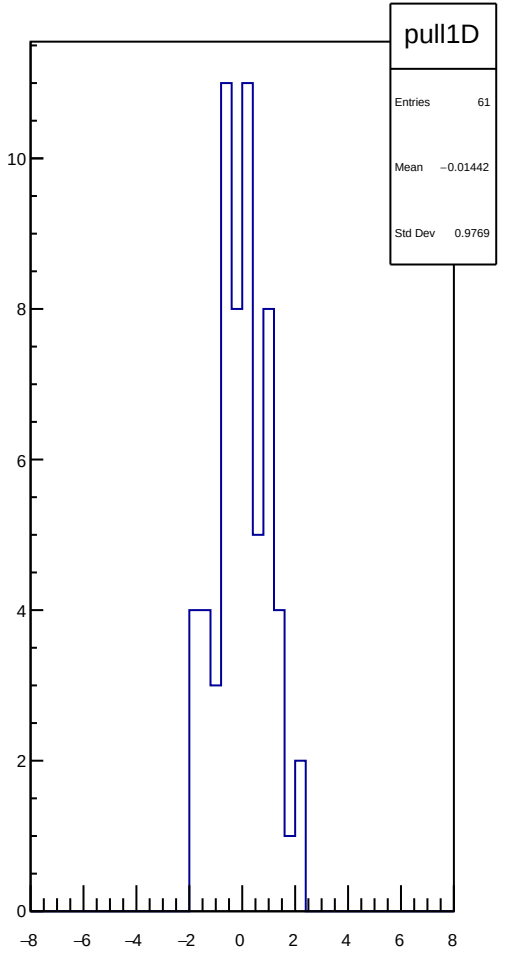

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

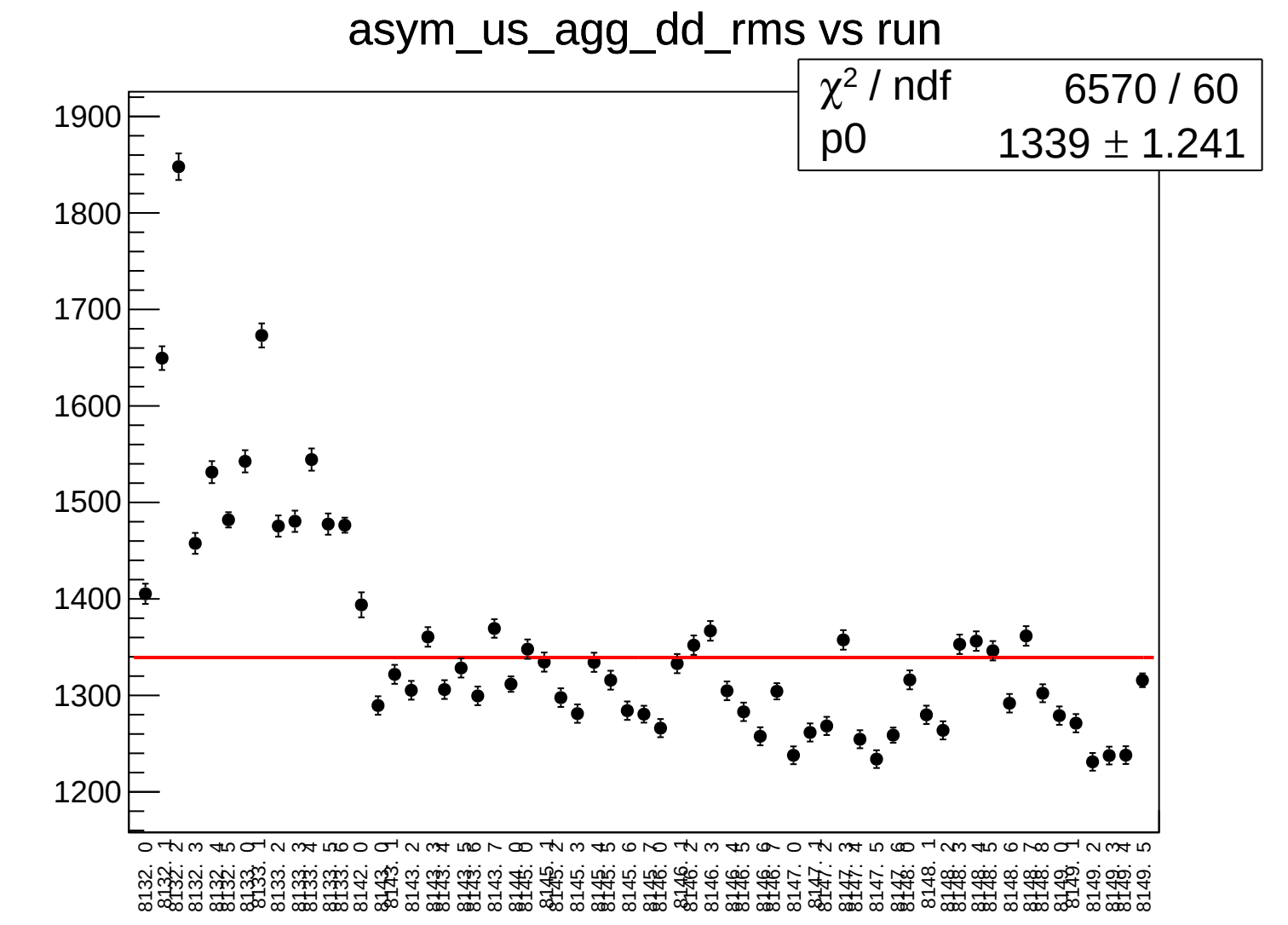

asym_us_agg_avg_mean vs run
χ^2 / ndf 68.84 / 60
p0 952.2 ± 2304
pull
Entries 61
Mean 329.4
Std Dev 302.7

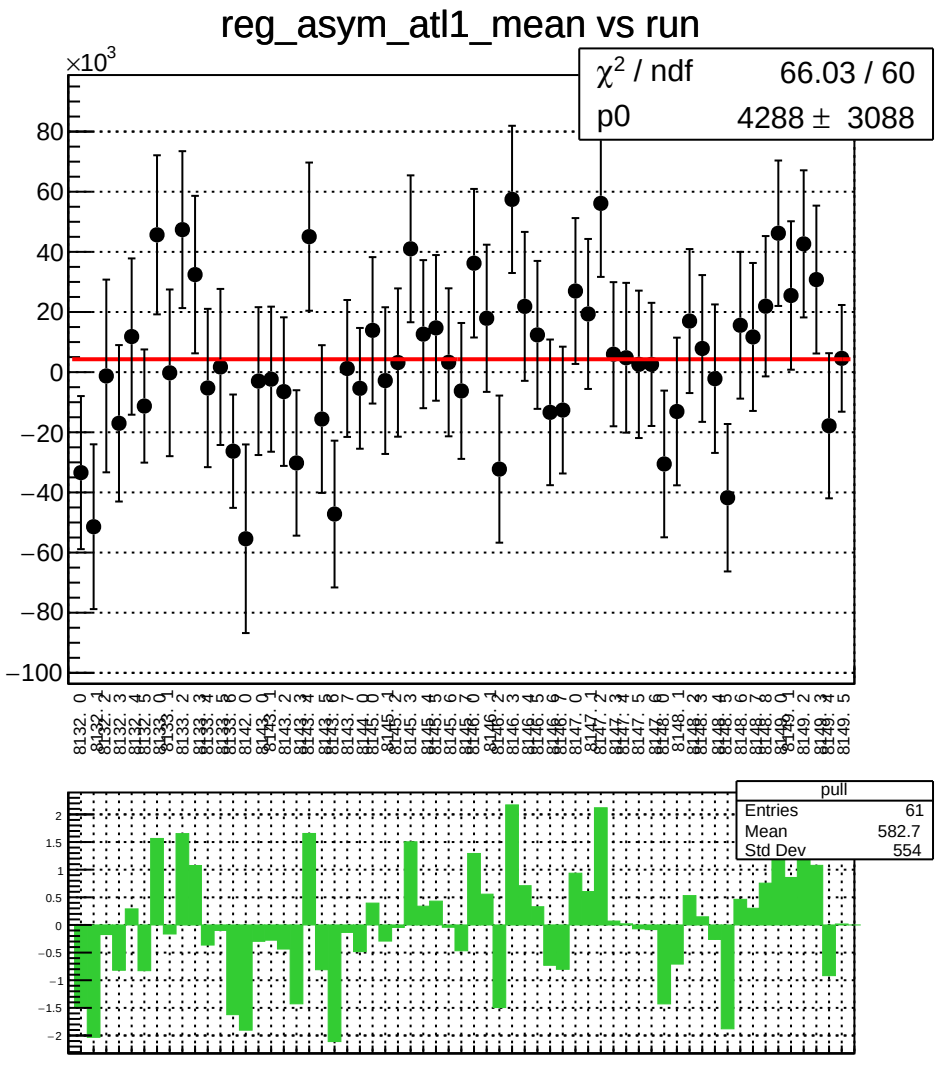

pull1D
Entries 61
Mean 0.006804
Std Dev 1.062

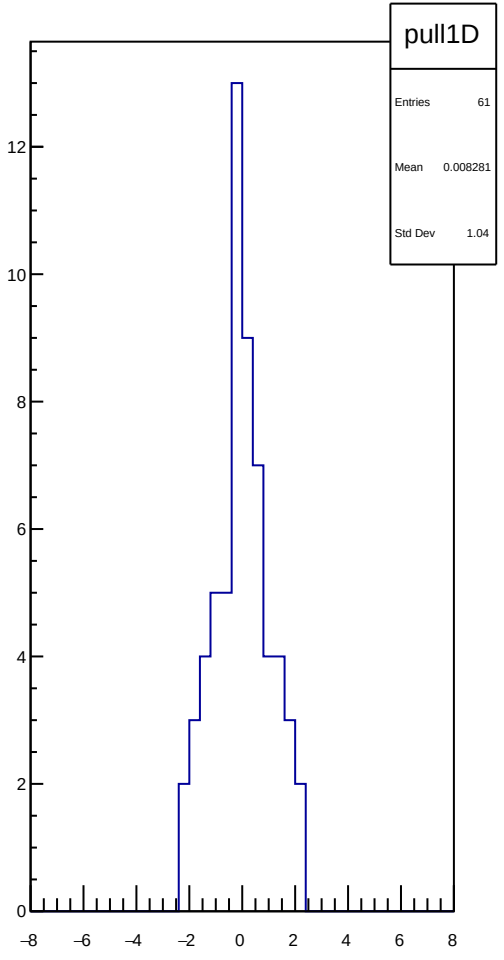

asym_us_agg_avg_rms vs run
χ² / ndf 6540 / 60
p0 1759 ± 1.629
2600
2400
2200
2000
1800
1600

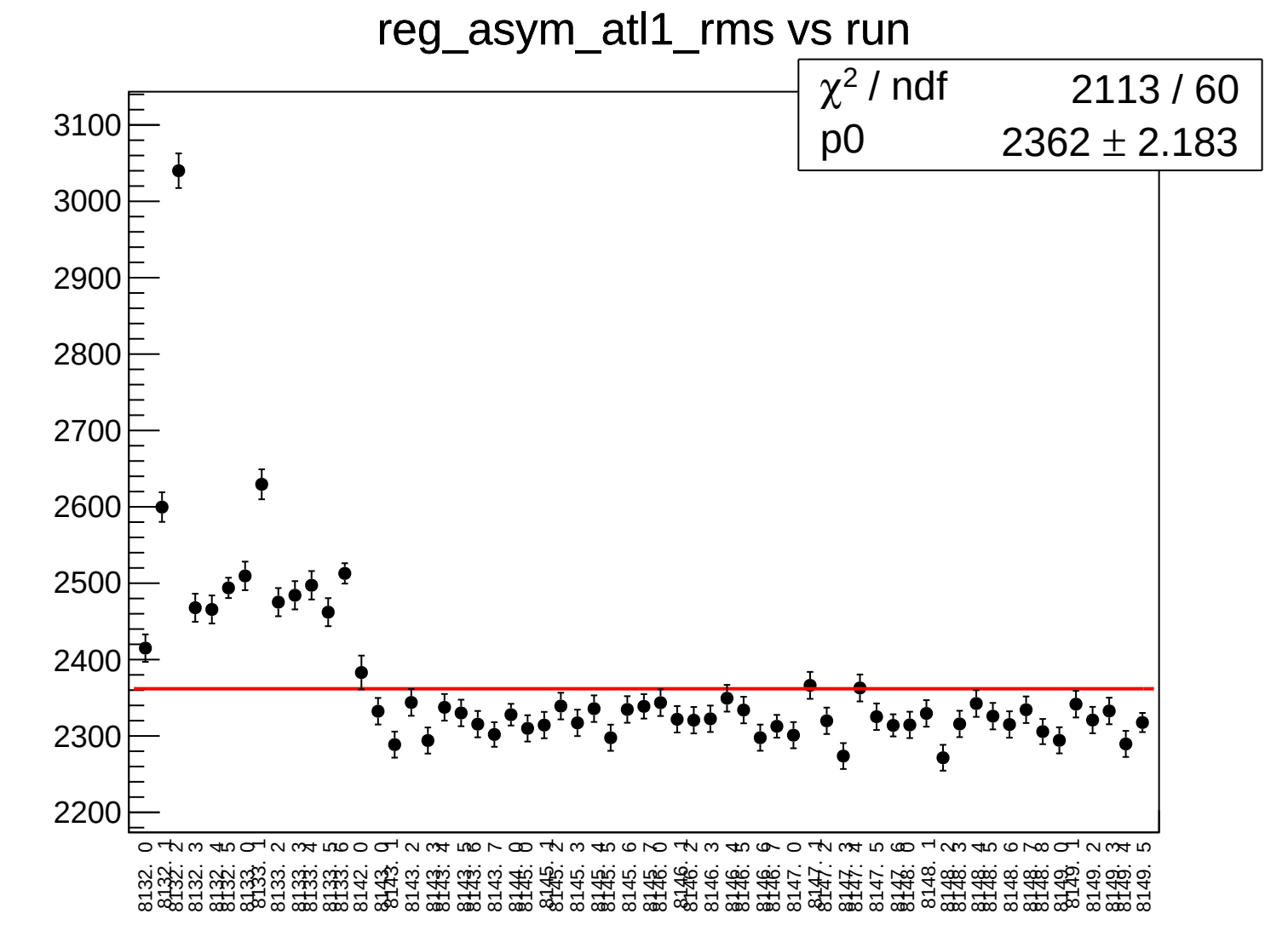

asym_us_agg_dd_mean vs run
χ² / ndf 58.23 / 60
p0 1983 ± 1754
pull
Entries 61
Mean −76.9
Std Dev 115

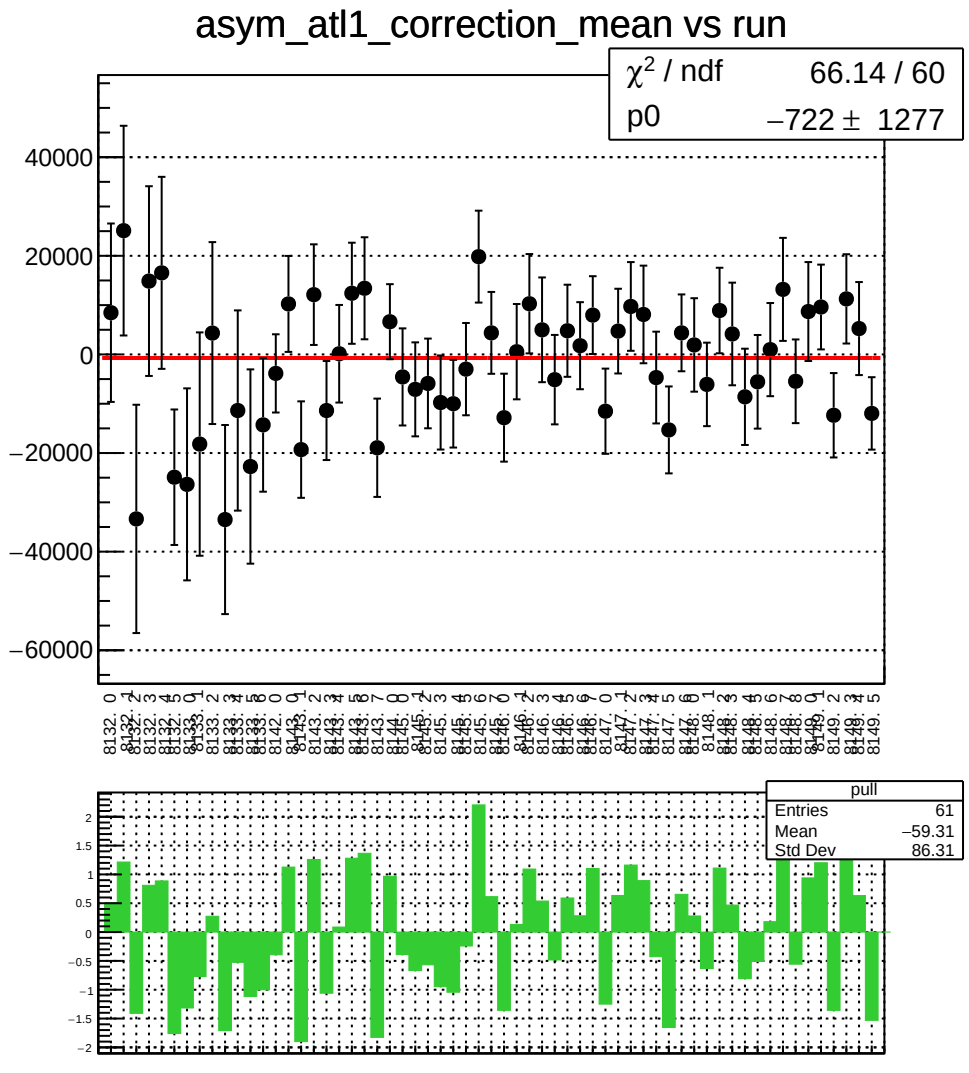

pull1D
Entries 61
Mean −0.01442
Std Dev 0.9769

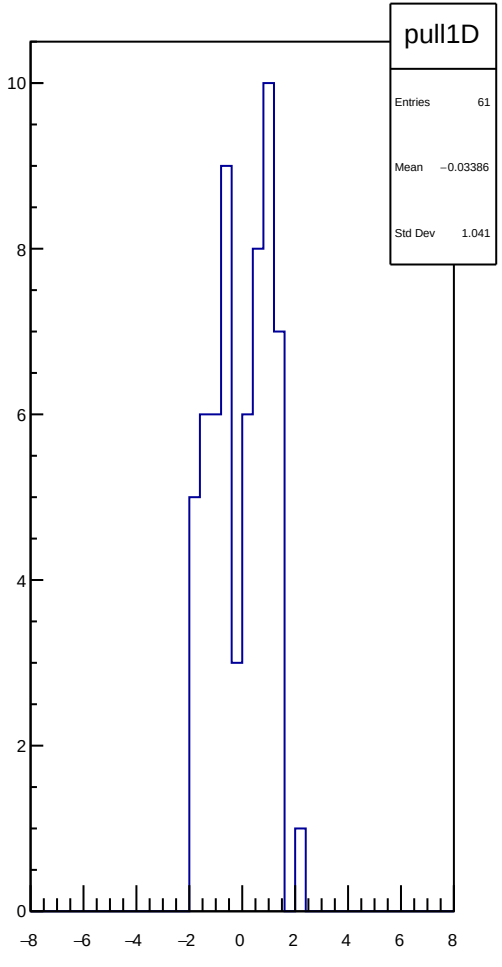

asym_us_agg_dd_rms vs run
χ² / ndf 6570 / 60
p0 1339 ± 1.241
1900
1800
1700
1600
1500
1400
1300
1200

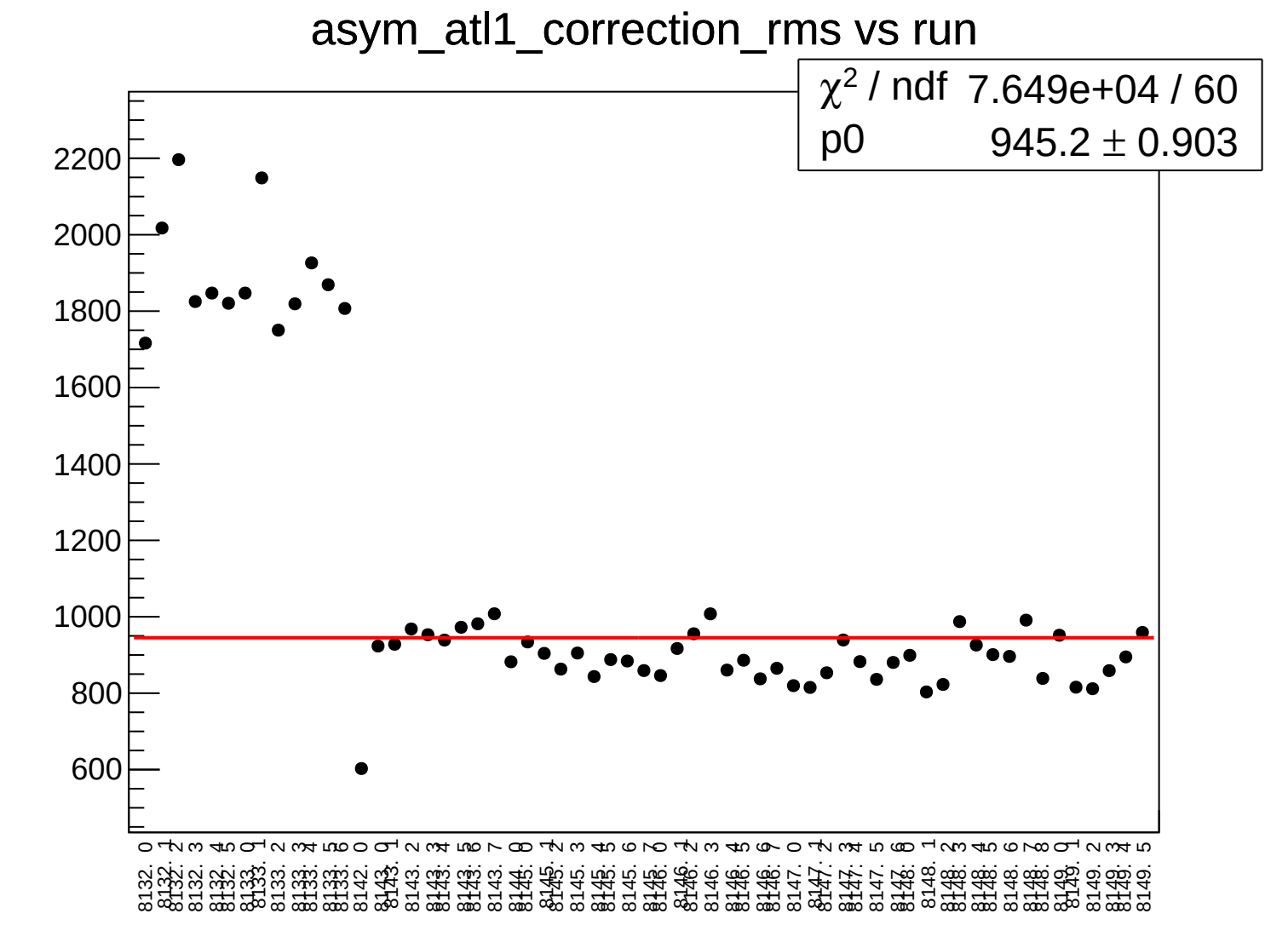

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 66.03 / 60
p0 4288 ± 3088
pull
Entries 61
Mean 582.7
Std Dev 554

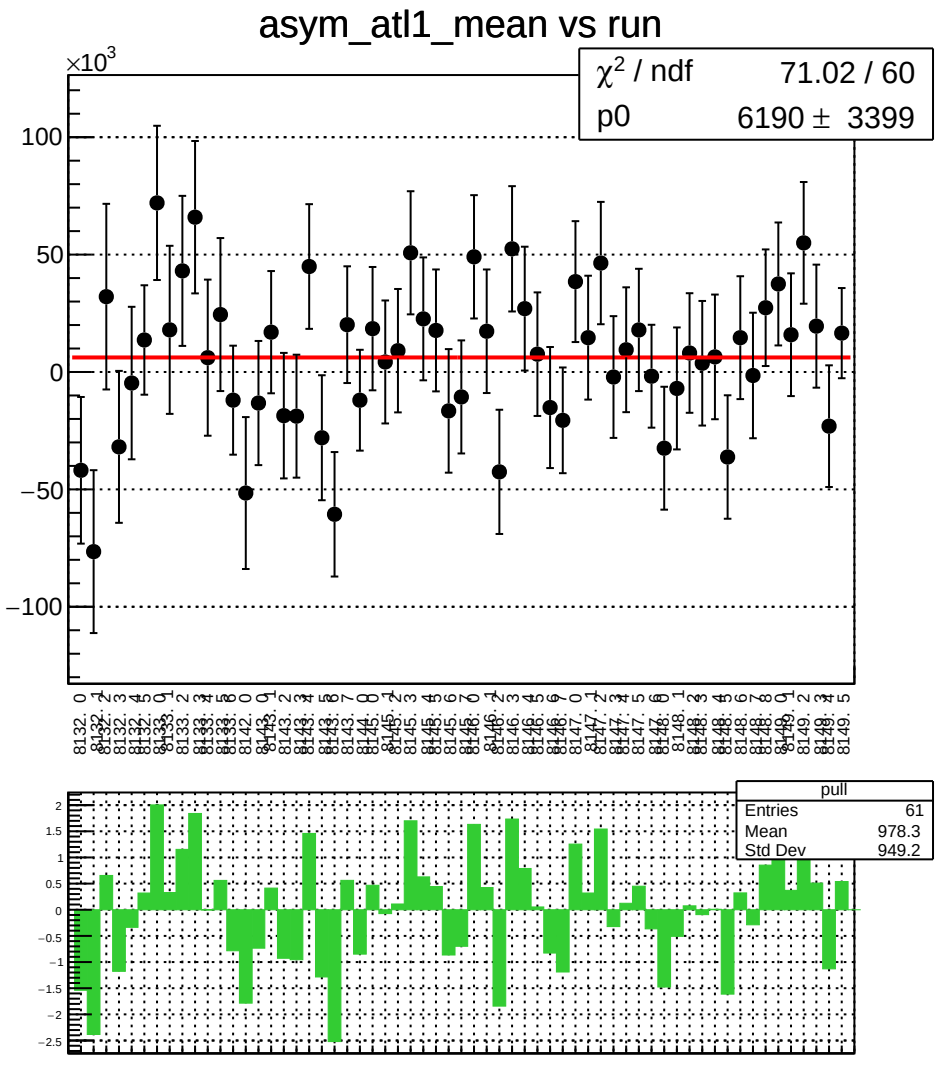

pull1D
Entries 61
Mean 0.008281
Std Dev 1.04

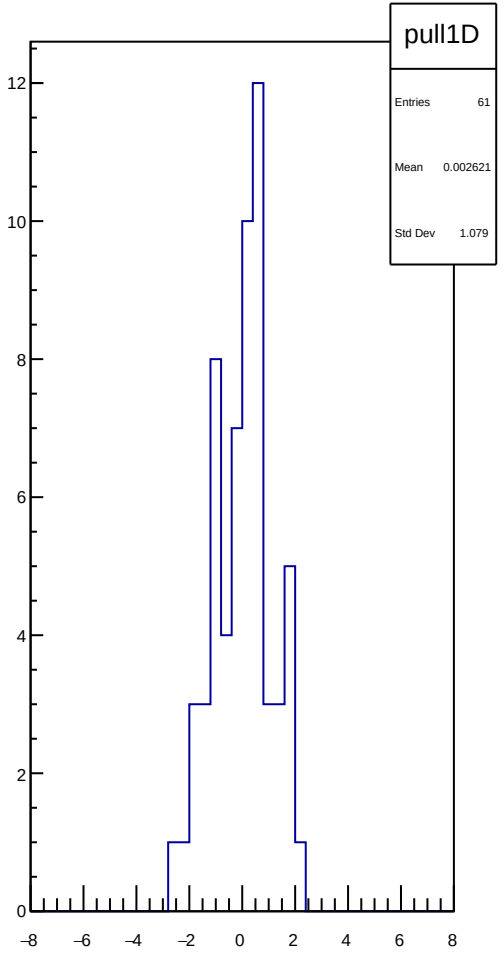

reg_asym_atl1_rms vs run
χ² / ndf 2113 / 60
p0 2362 ± 2.183
3100
3000
2900
2800
2700
2600
2500
2400
2300
2200

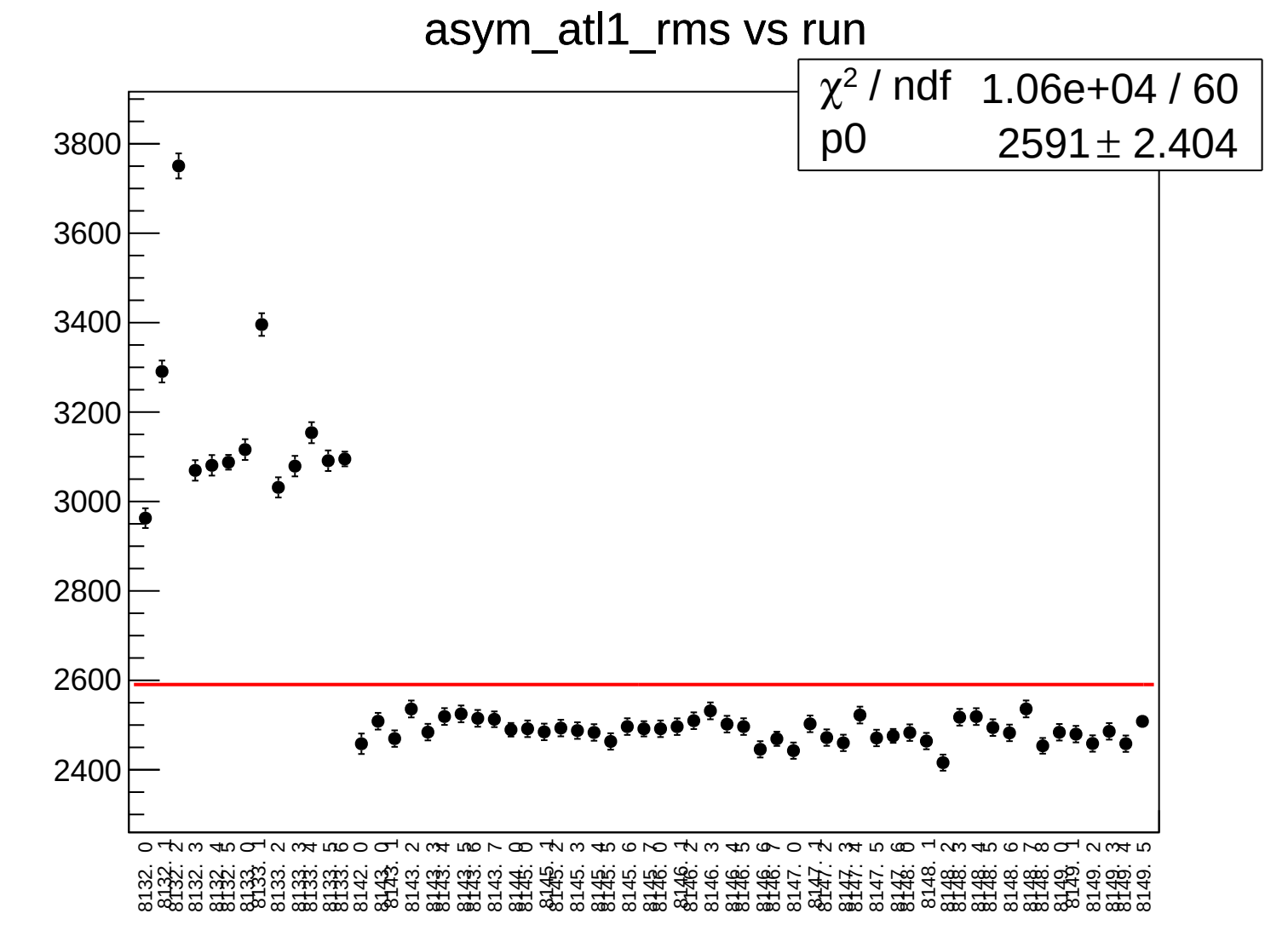

asym_atl1_correction_mean vs run
χ² / ndf 66.14 / 60
p0 −722 ± 1277
40000
20000
0
−20000
−40000
−60000
pull
Entries 61
Mean −59.31
Std Dev 86.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

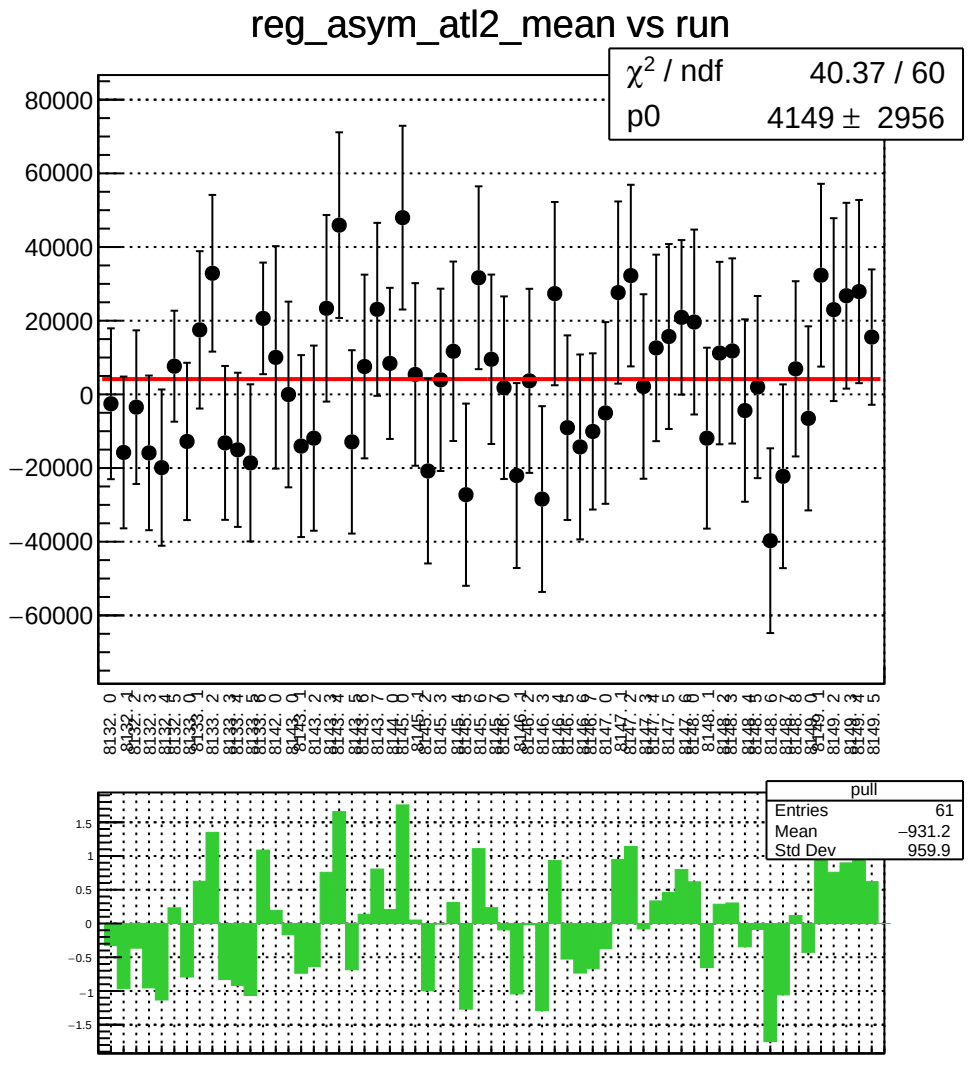

pull1D
Entries 61
Mean −0.03386
Std Dev 1.041
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

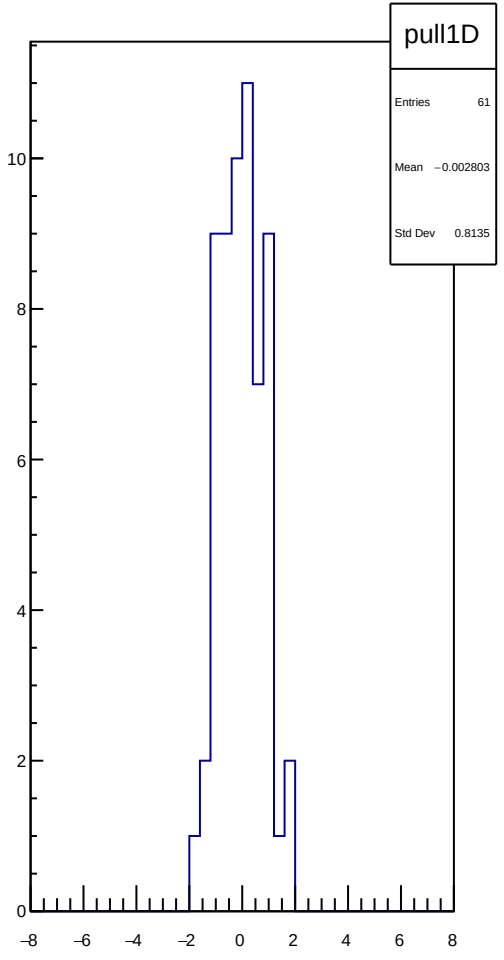

asym_atl1_correction_rms vs run
χ² / ndf 7.649e+04 / 60
p0 945.2 ± 0.903
2200
2000
1800
1600
1400
1200
1000
800
600

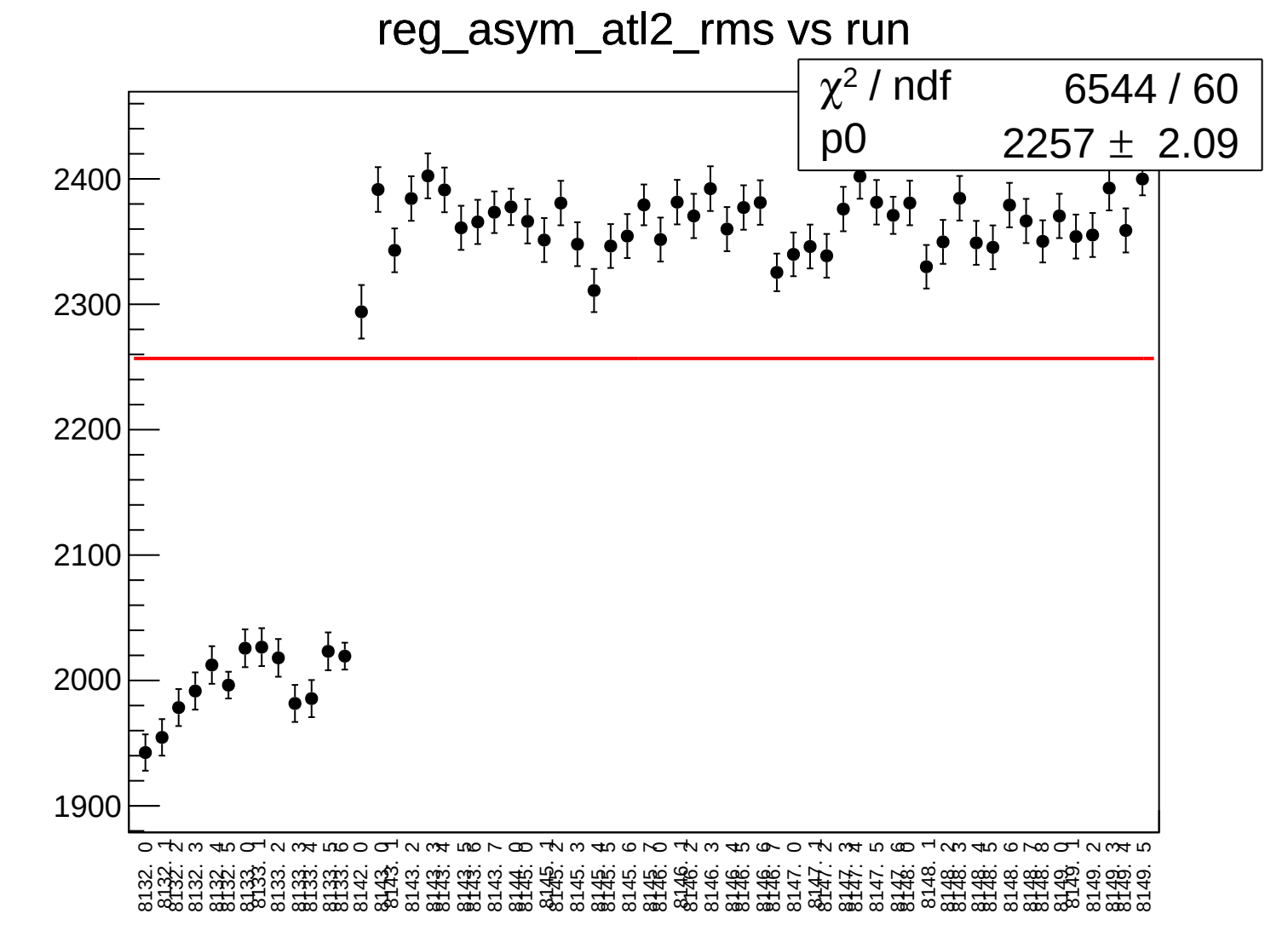

asym_atl1_mean vs run
×10^3
χ² / ndf 71.02 / 60
p0 6190 ± 3399
100
50
0
−50
−100
pull
Entries 61
Mean 978.3
Std Dev 949.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

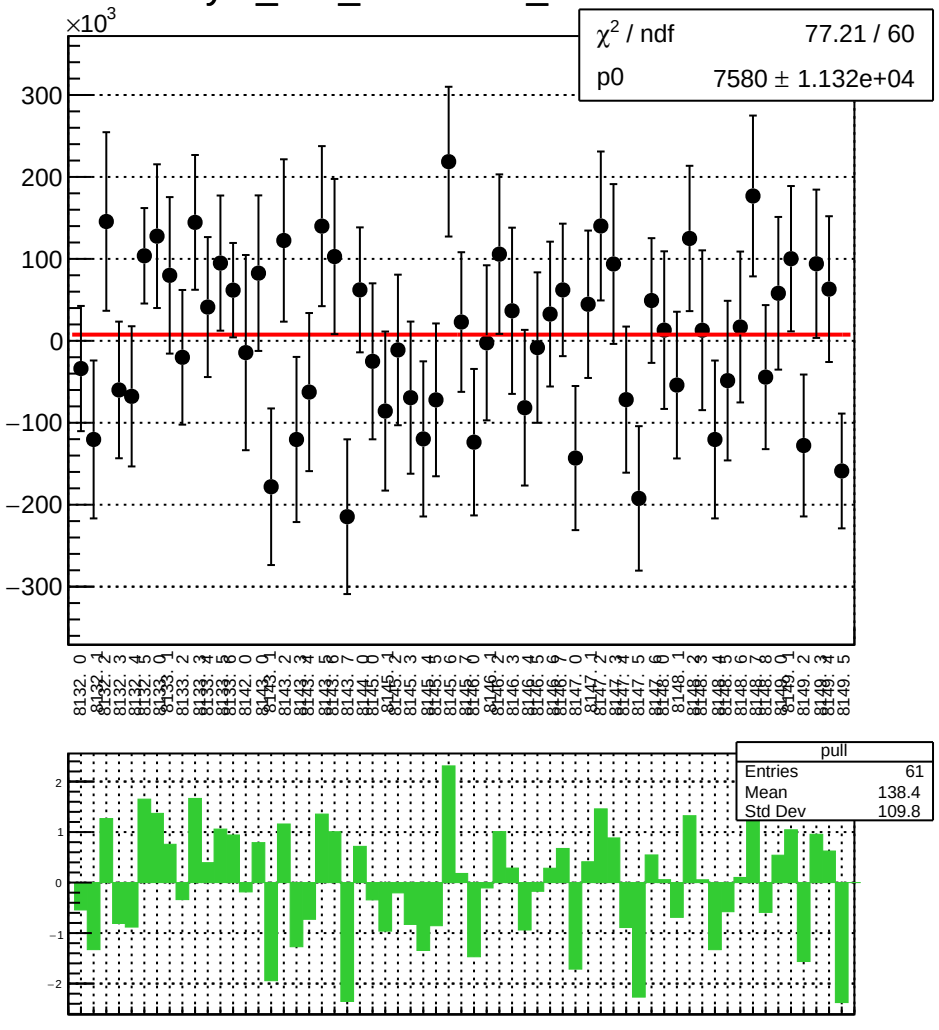

pull1D
Entries 61
Mean 0.002621
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

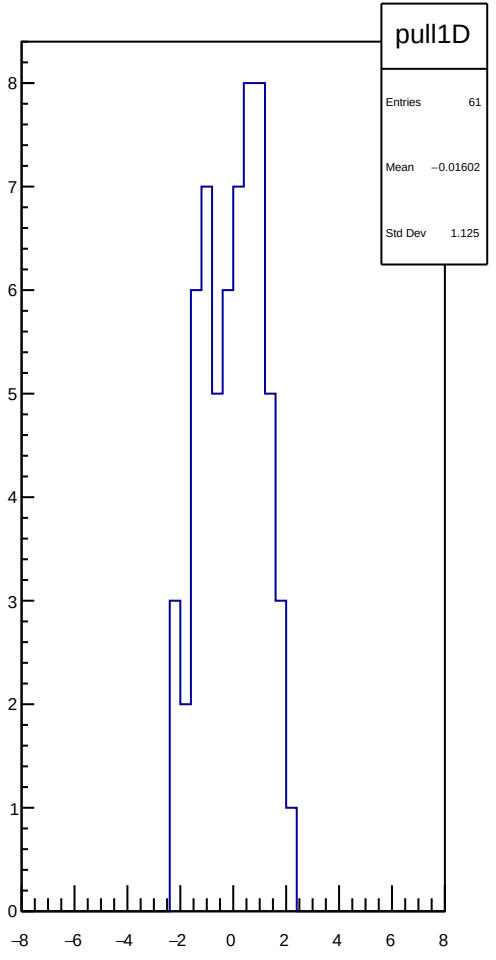

asym_atl1_rms vs run
χ² / ndf 1.06e+04 / 60
p0 2591 ± 2.404
3800
3600
3400
3200
3000
2800
2600
2400

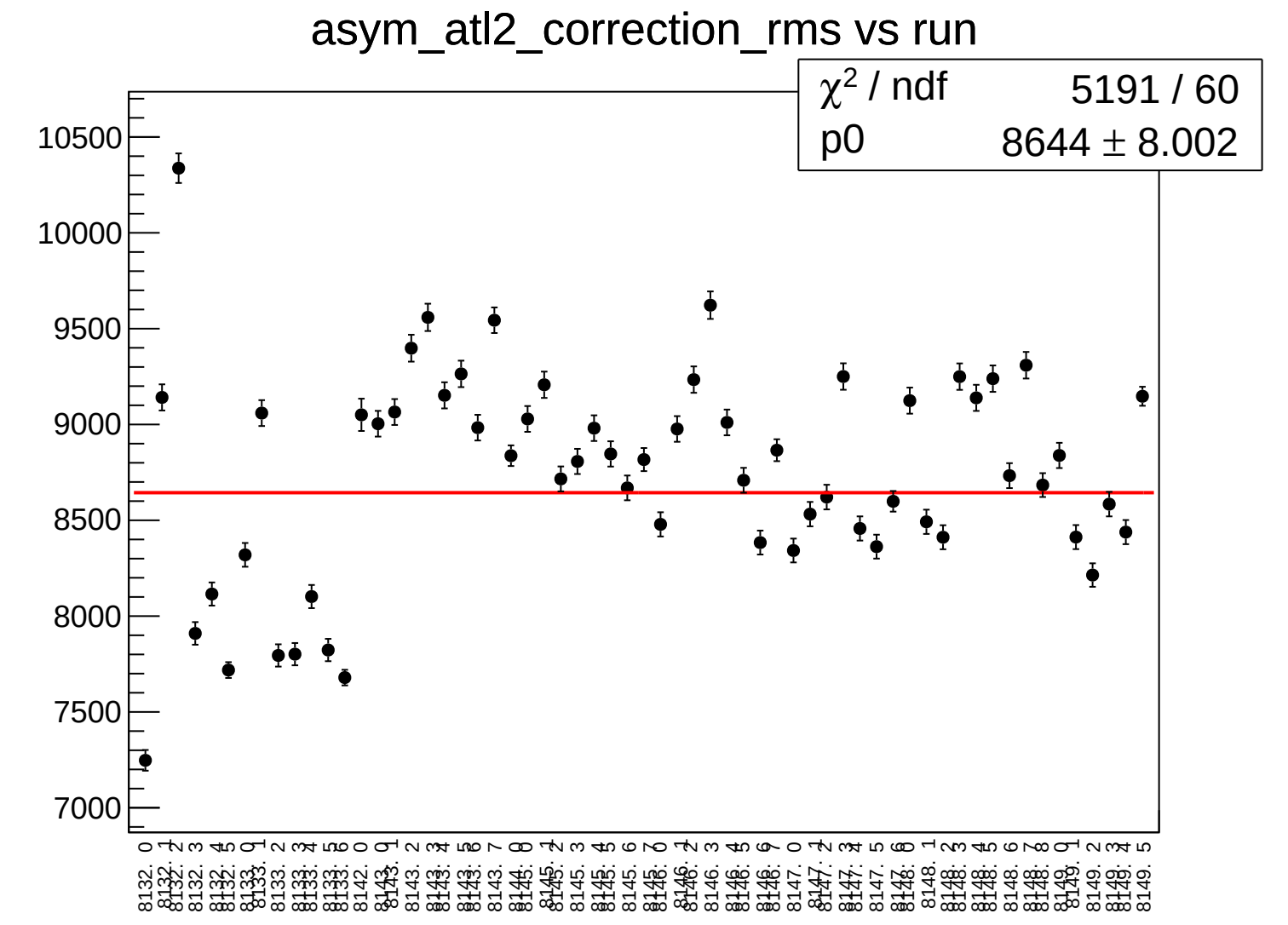

reg_asym_atl2_mean vs run
χ² / ndf 40.37 / 60
p0 4149 ± 2956
pull
Entries 61
Mean −931.2
Std Dev 959.9

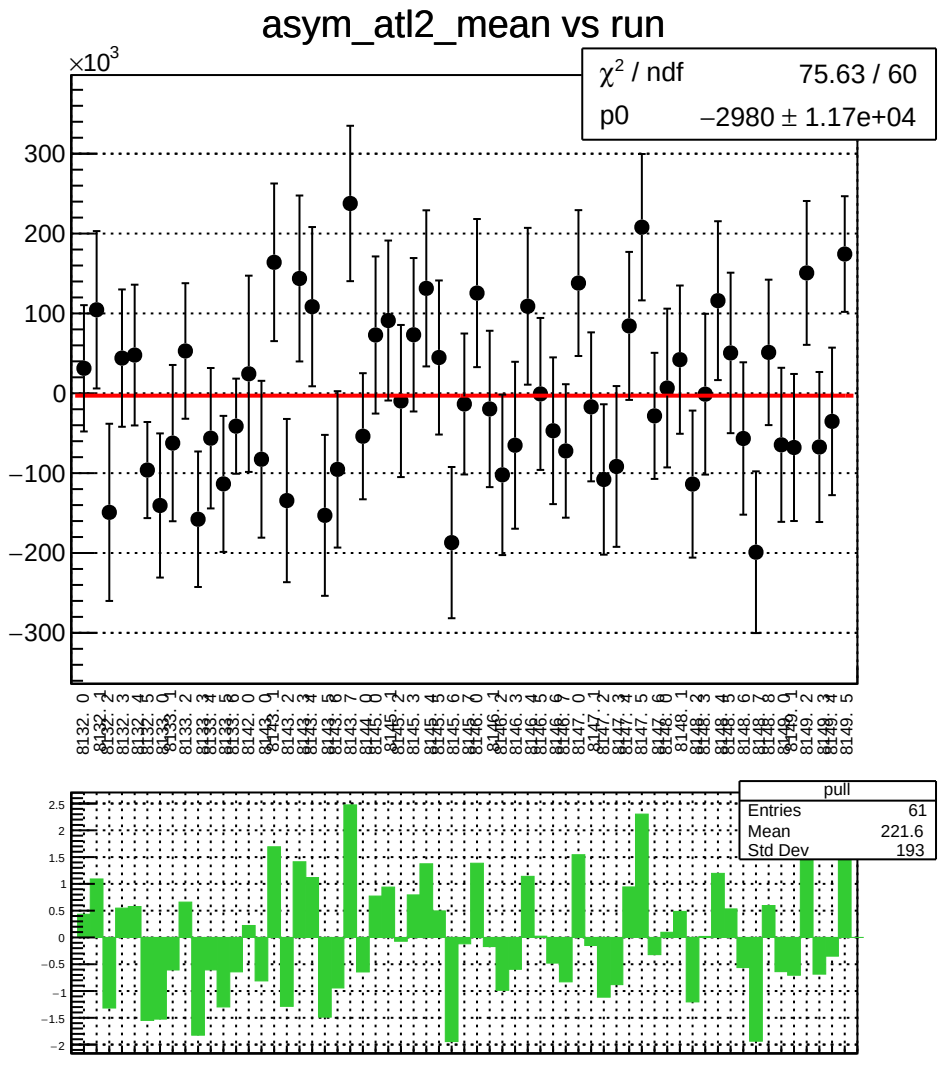

pull1D
Entries 61
Mean −0.002803
Std Dev 0.8135

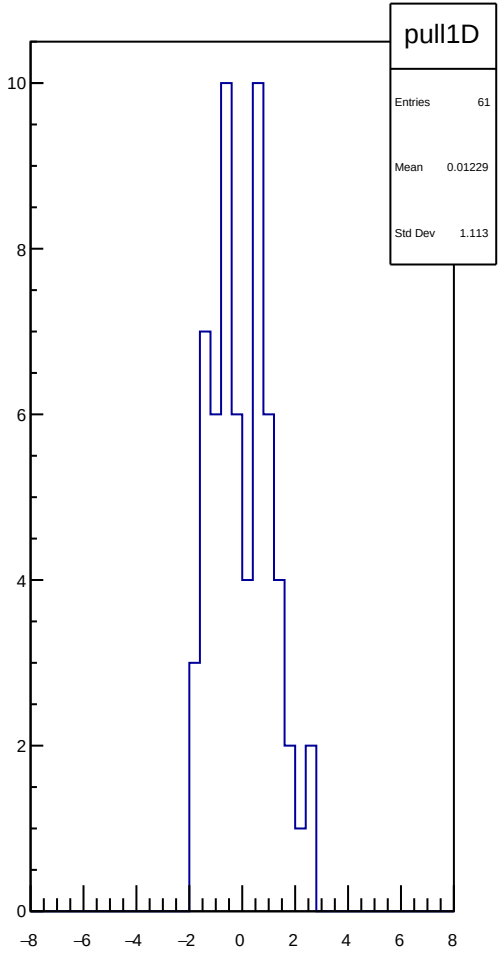

reg_asym_atl2_rms vs run
χ² / ndf 6544 / 60
p0 2257 ± 2.09
2400
2300
2200
2100
2000
1900

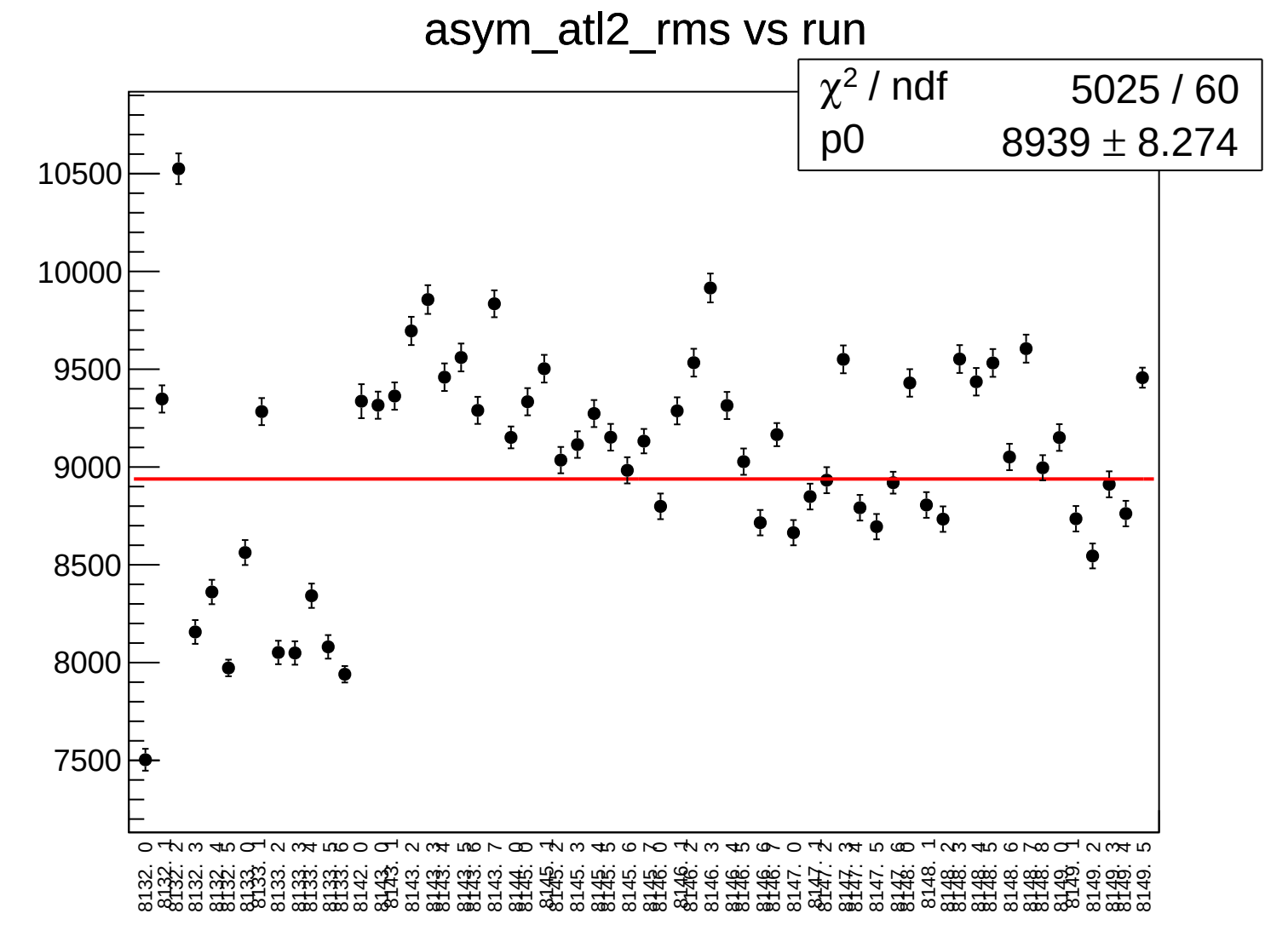

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 77.21 / 60
p0 7580 ± 1.132e+04
pull
Entries 61
Mean 138.4
Std Dev 109.8

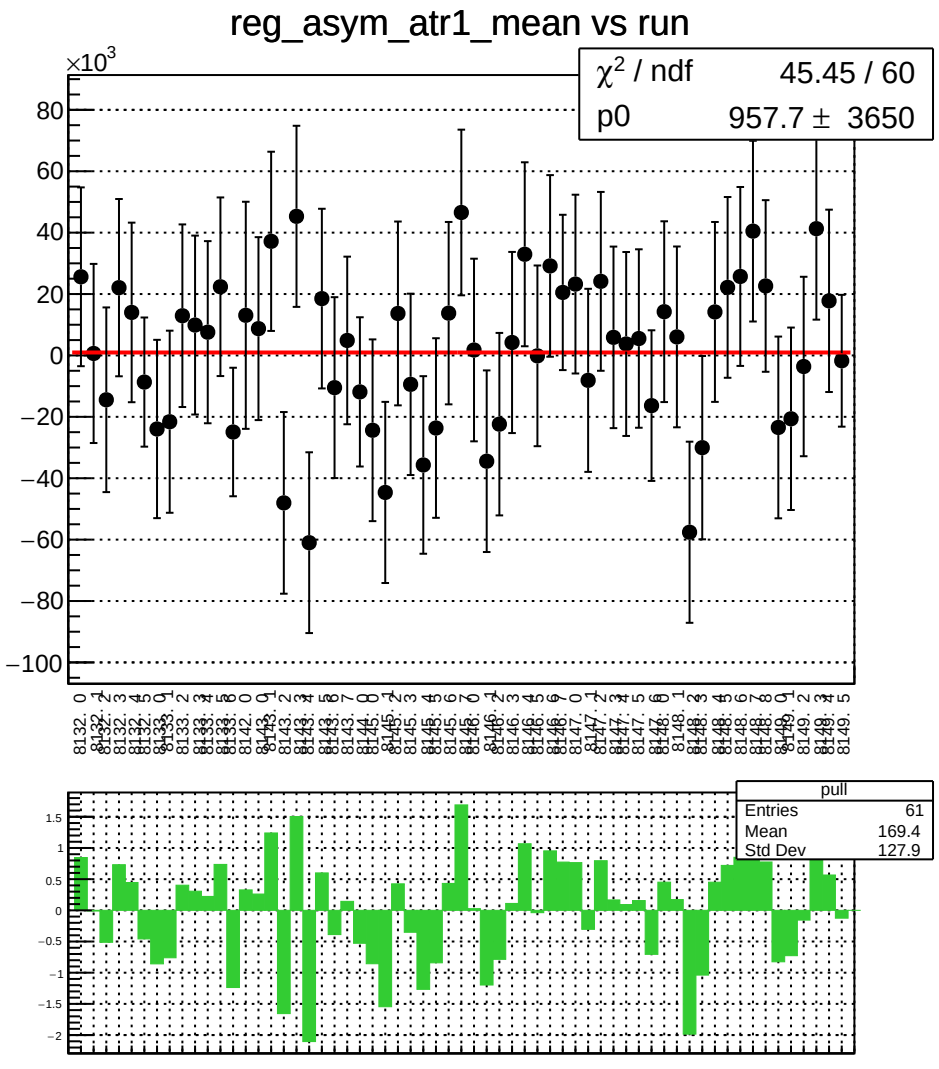

pull1D
Entries 61
Mean −0.01602
Std Dev 1.125

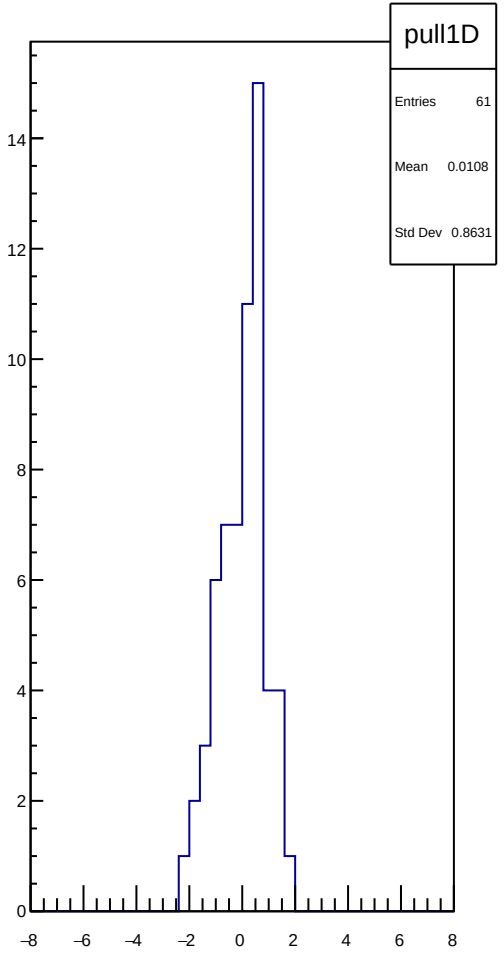

asym_atl2_correction_rms vs run
χ² / ndf 5191 / 60
p0 8644 ± 8.002
10500
10000
9500
9000
8500
8000
7500
7000

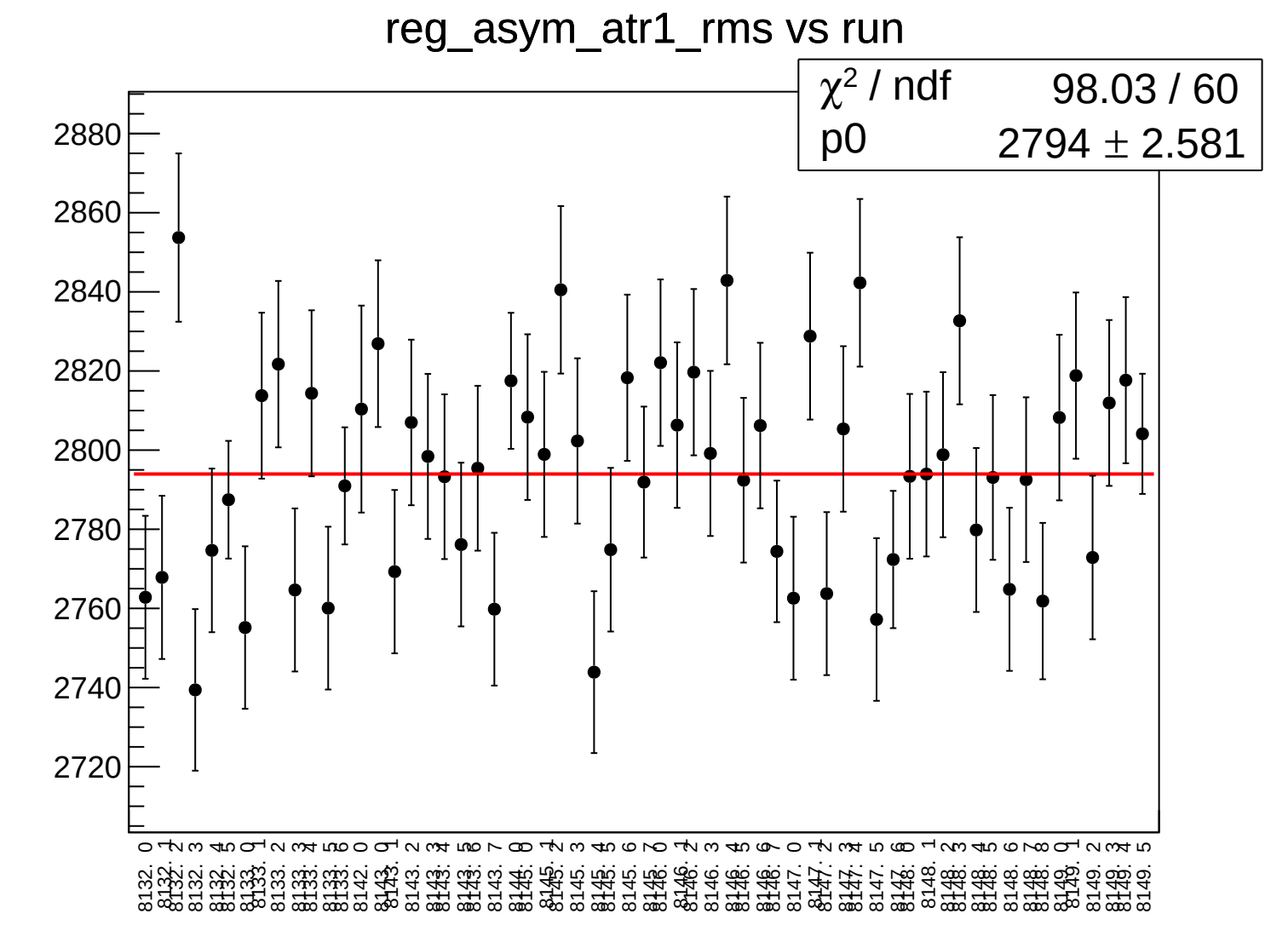

asym_atl2_mean vs run
×10^3
χ² / ndf 75.63 / 60
p0 −2980 ± 1.17e+04
300
200
100
0
−100
−200
−300
pull
Entries 61
Mean 221.6
Std Dev 193
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

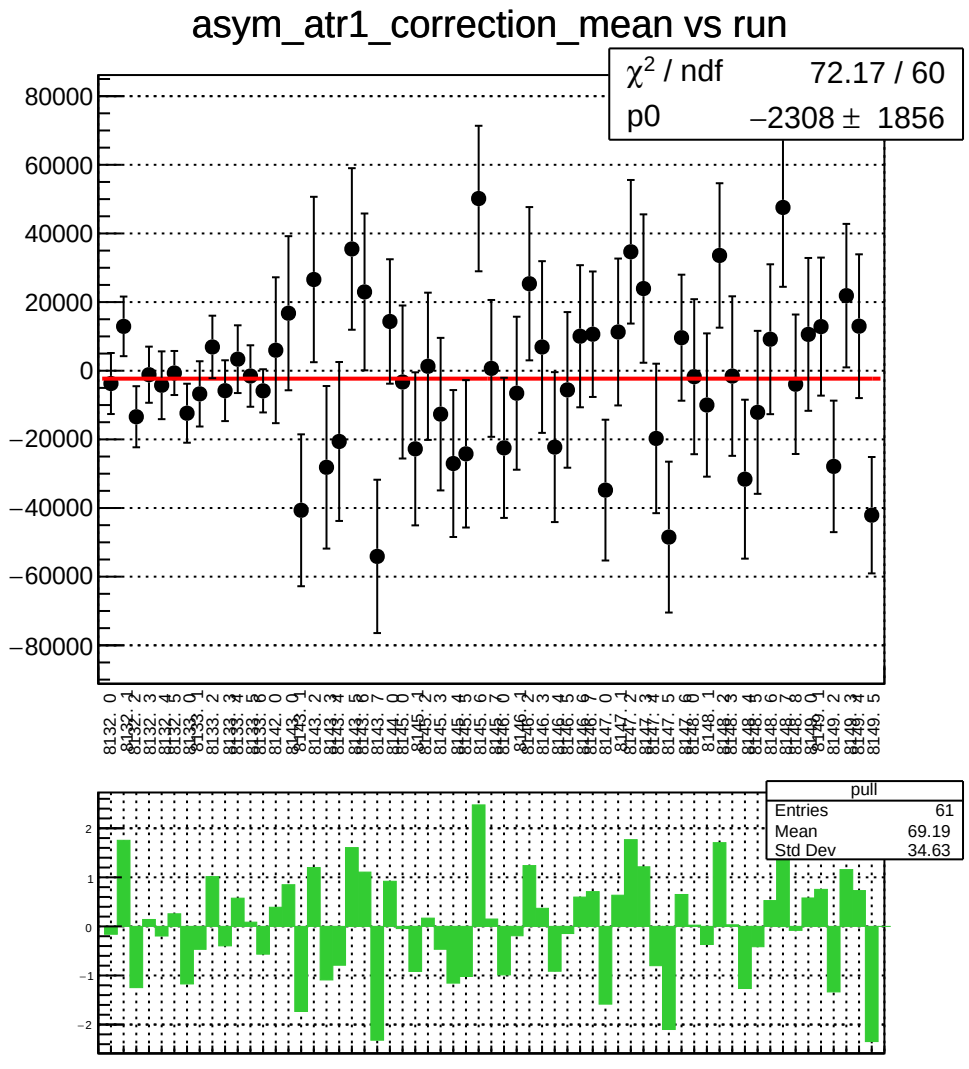

pull1D
Entries 61
Mean 0.01229
Std Dev 1.113
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

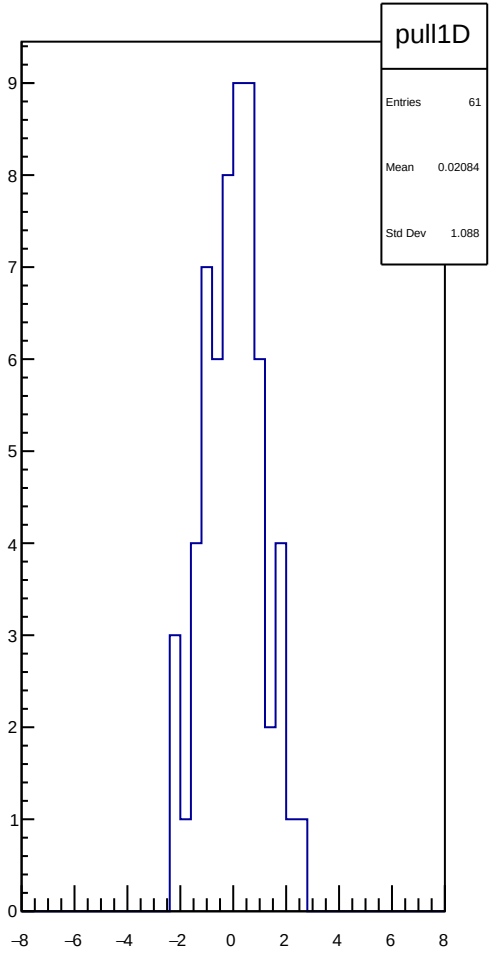

asym_atl2_rms vs run
χ² / ndf 5025 / 60
p0 8939 ± 8.274
10500
10000
9500
9000
8500
8000
7500

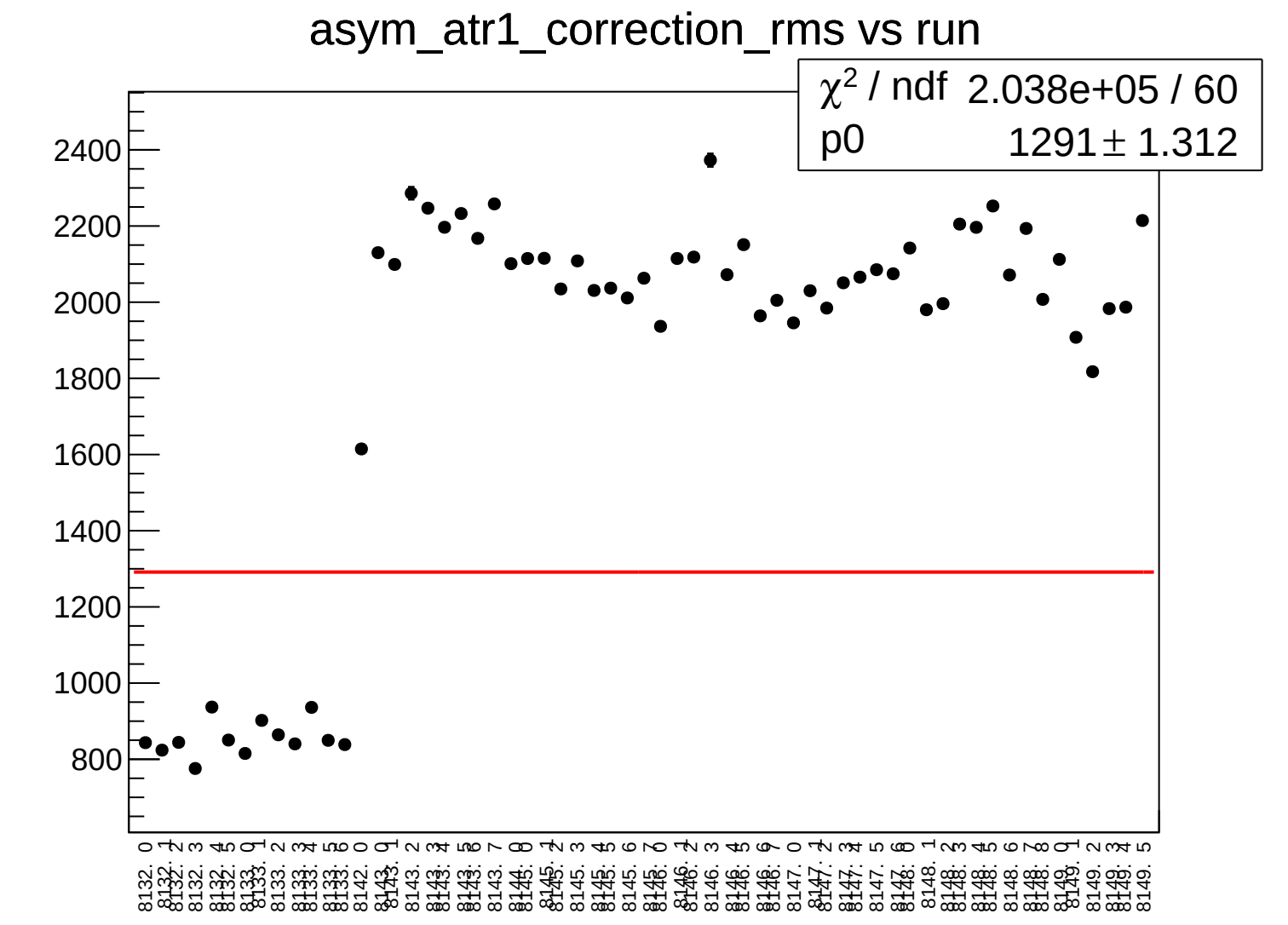

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 45.45 / 60
p0 957.7 ± 3650
pull
Entries 61
Mean 169.4
Std Dev 127.9

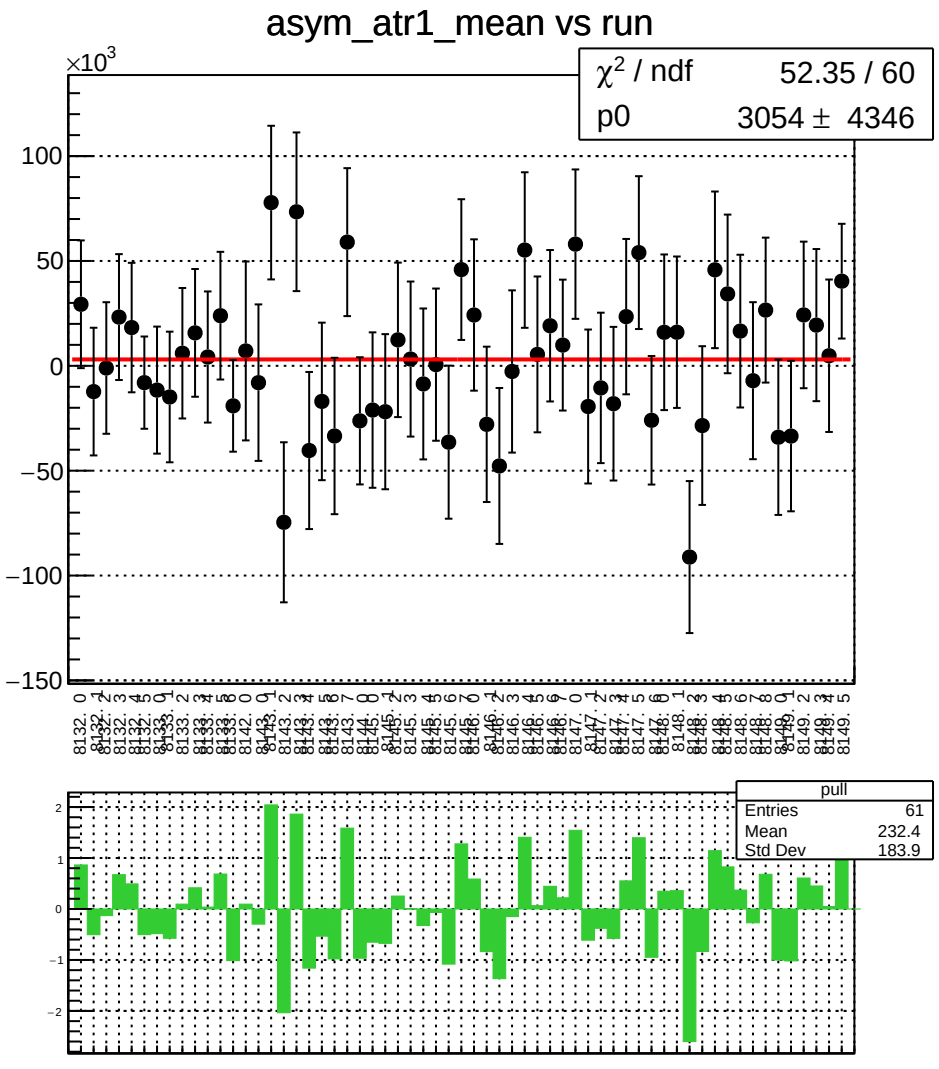

pull1D
Entries 61
Mean 0.0108
Std Dev 0.8631

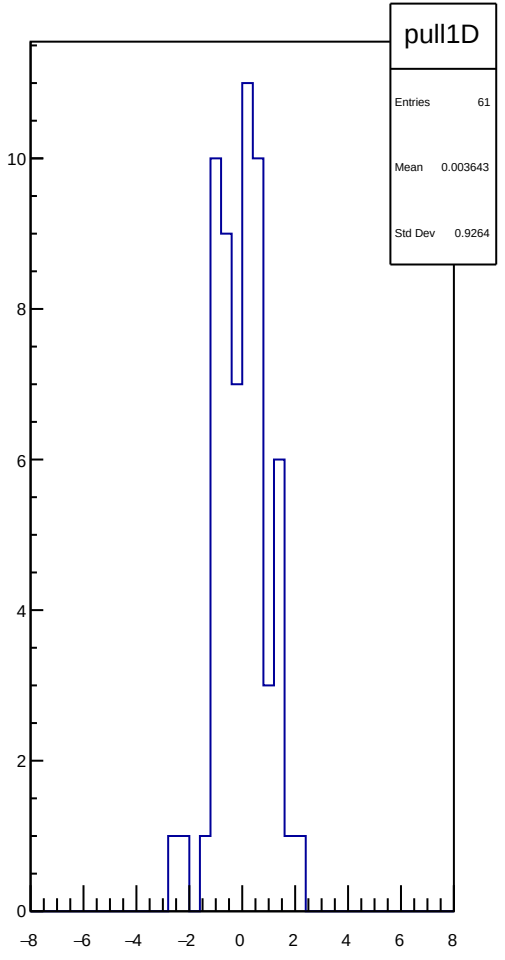

reg_asym_atr1_rms vs run
χ² / ndf 98.03 / 60
p0 2794 ± 2.581
2880
2860
2840
2820
2800
2780
2760
2740
2720
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8132. 6
8132. 7
8133. 0
8133. 1
8133. 2
8133. 3
8133. 4
8133. 5
8133. 6
8133. 7
8142. 0
8142. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8144. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8147. 7
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

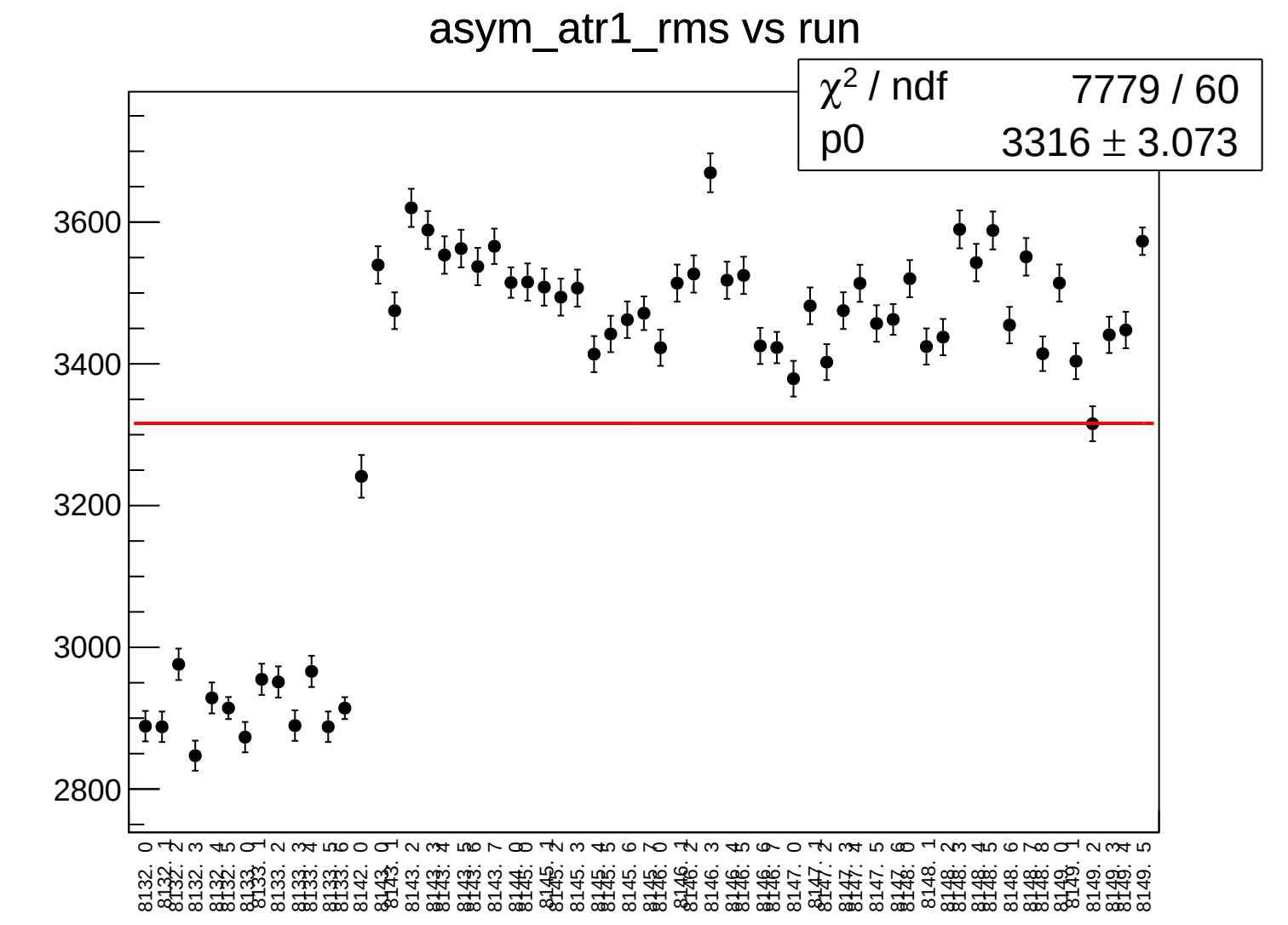

asym_atr1_correction_mean vs run
χ² / ndf 72.17 / 60
p0 −2308 ± 1856
pull
Entries 61
Mean 69.19
Std Dev 34.63

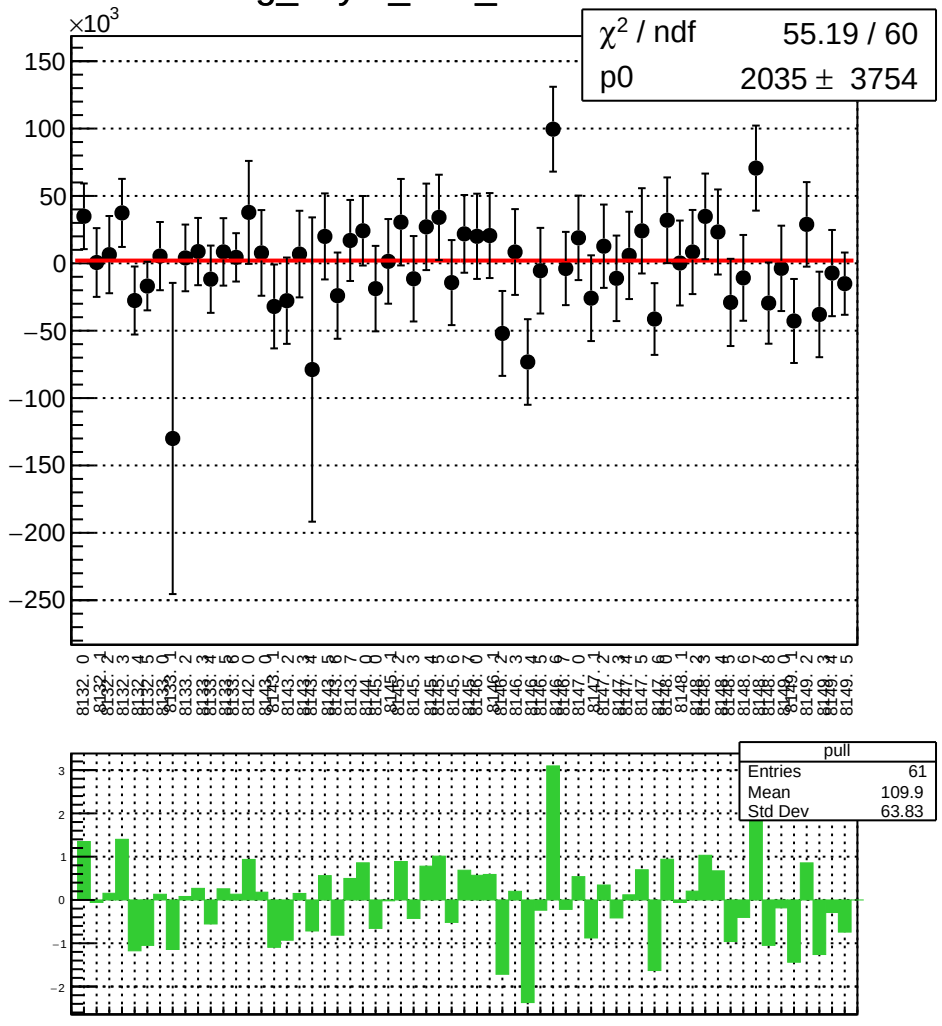

pull1D
Entries 61
Mean 0.02084
Std Dev 1.088

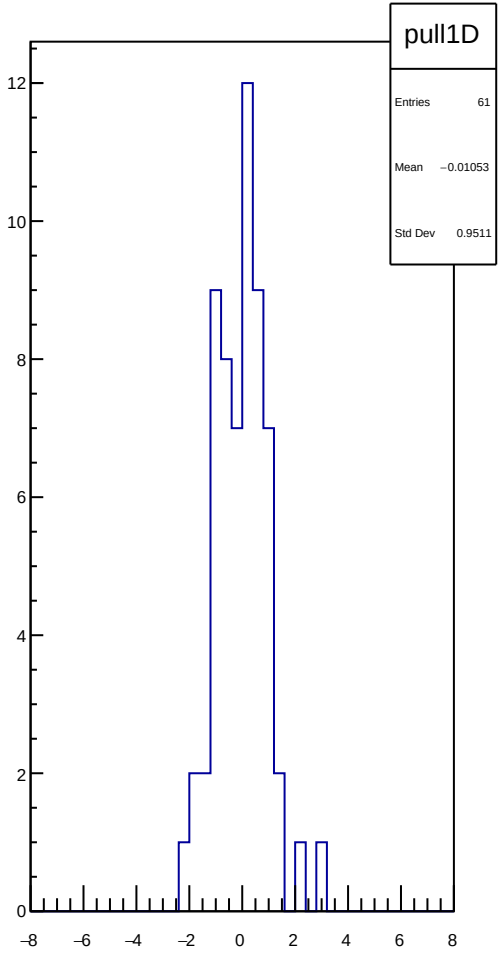

asym_atr1_correction_rms vs run
χ² / ndf 2.038e+05 / 60
p0 1291 ± 1.312
2400
2200
2000
1800
1600
1400
1200
1000
800

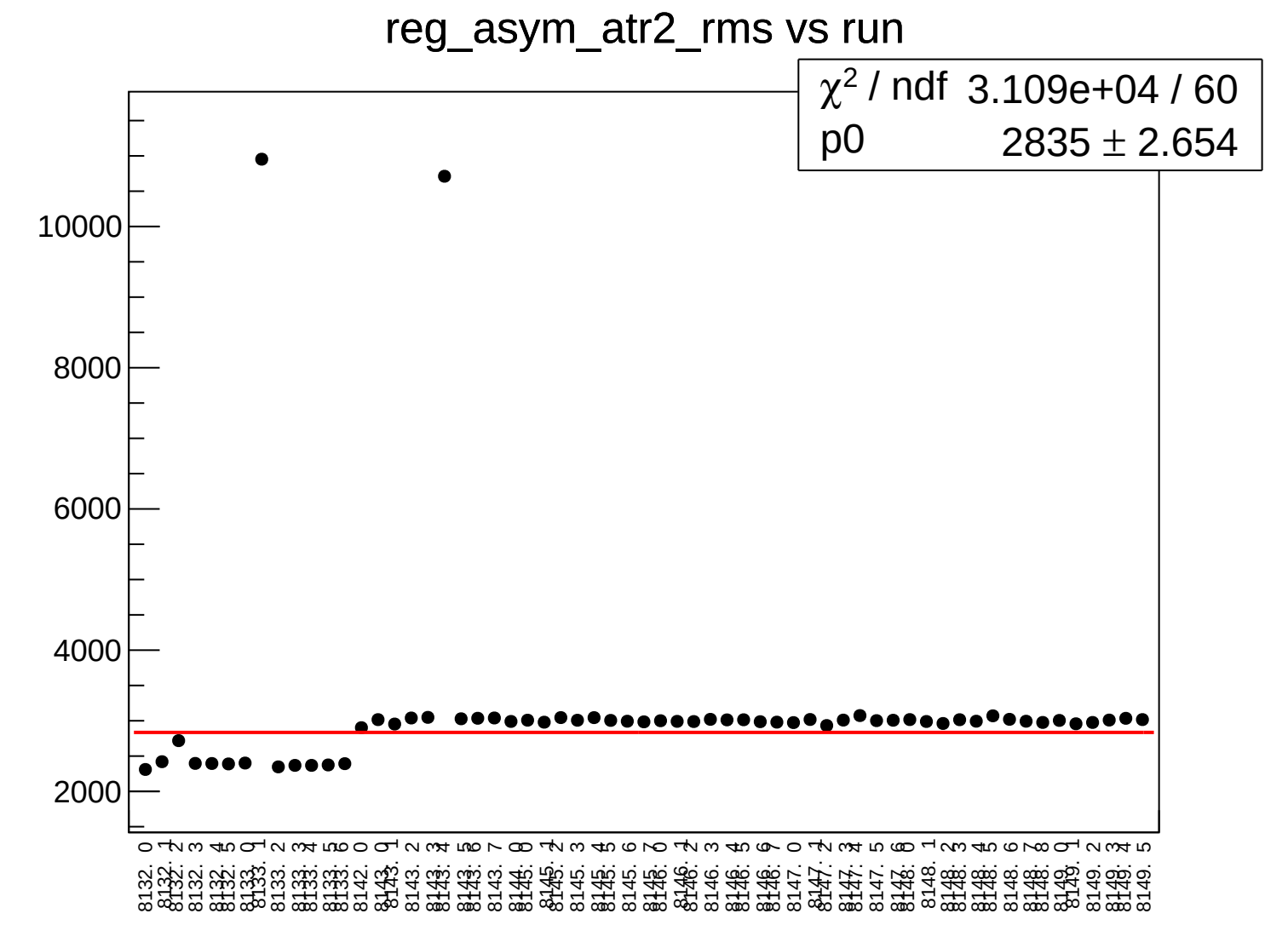

asym_atr1_mean vs run
×10^3
χ^2 / ndf 52.35 / 60
p0 3054 ± 4346
100
50
0
−50
−100
−150
pull
Entries 61
Mean 232.4
Std Dev 183.9
2
1
0
−1
−2

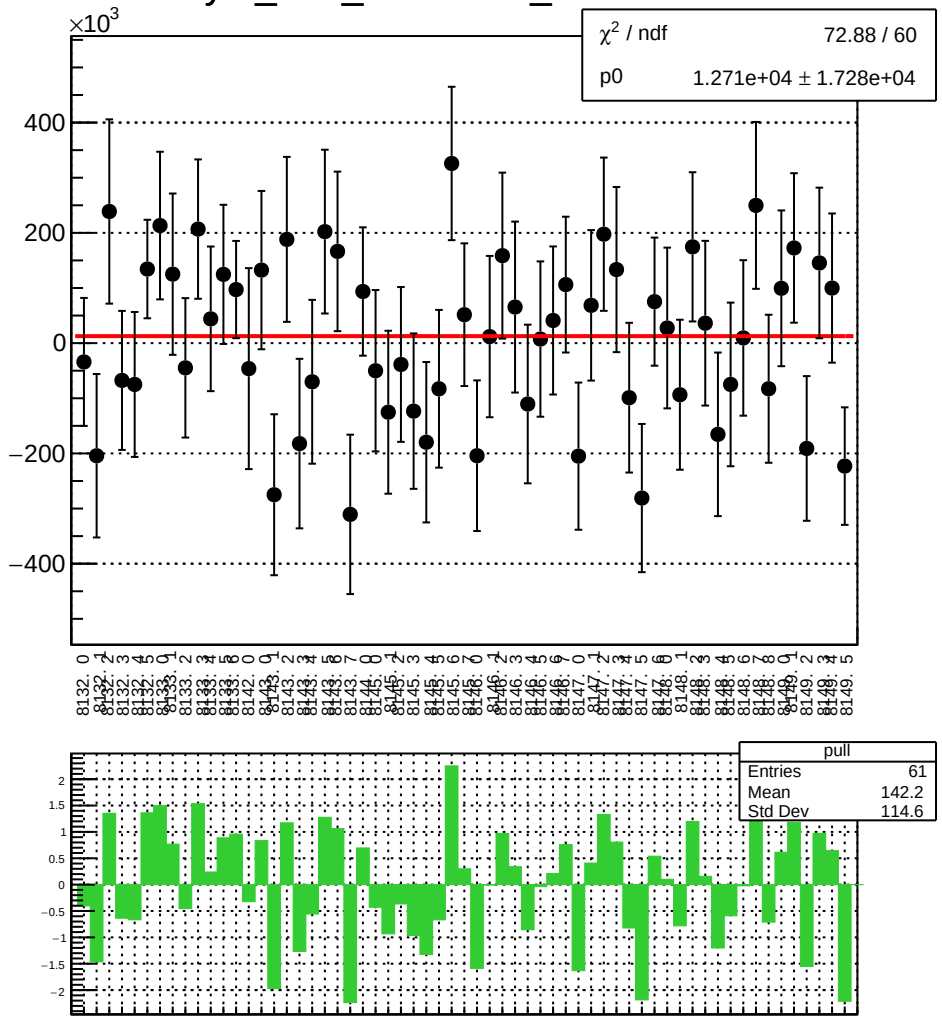

pull1D
Entries 61
Mean 0.003643
Std Dev 0.9264
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

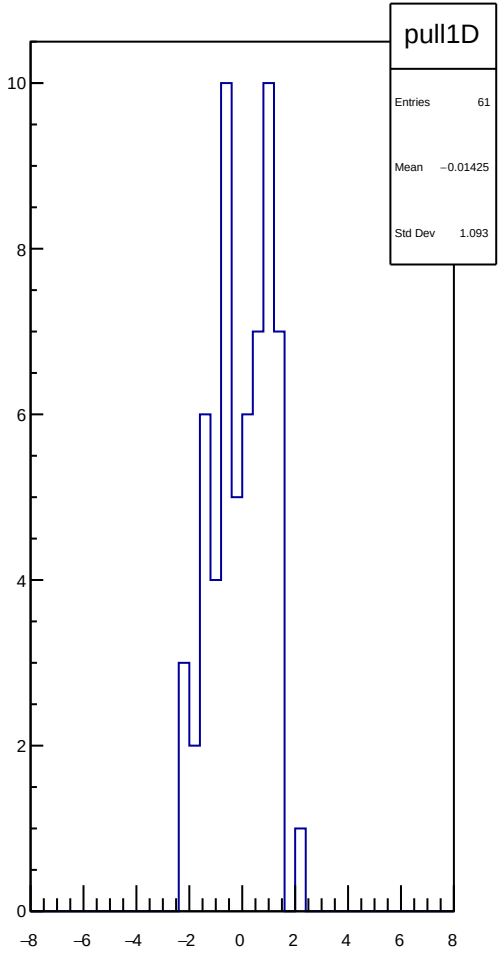

asym_atr1_rms vs run
χ² / ndf 7779 / 60
p0 3316 ± 3.073
3600
3400
3200
3000
2800

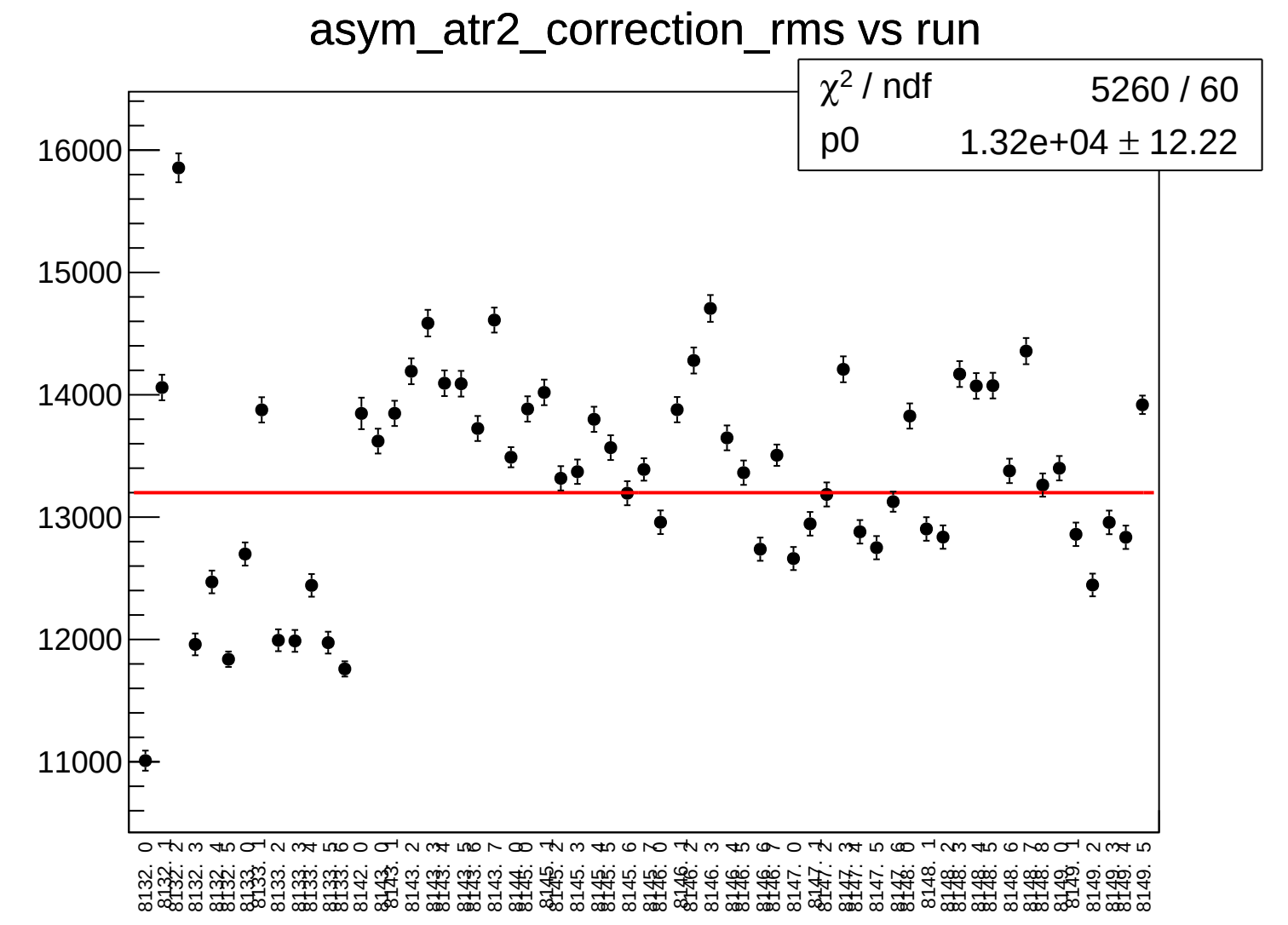

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 55.19 / 60
p0 2035 ± 3754
pull
Entries 61
Mean 109.9
Std Dev 63.83

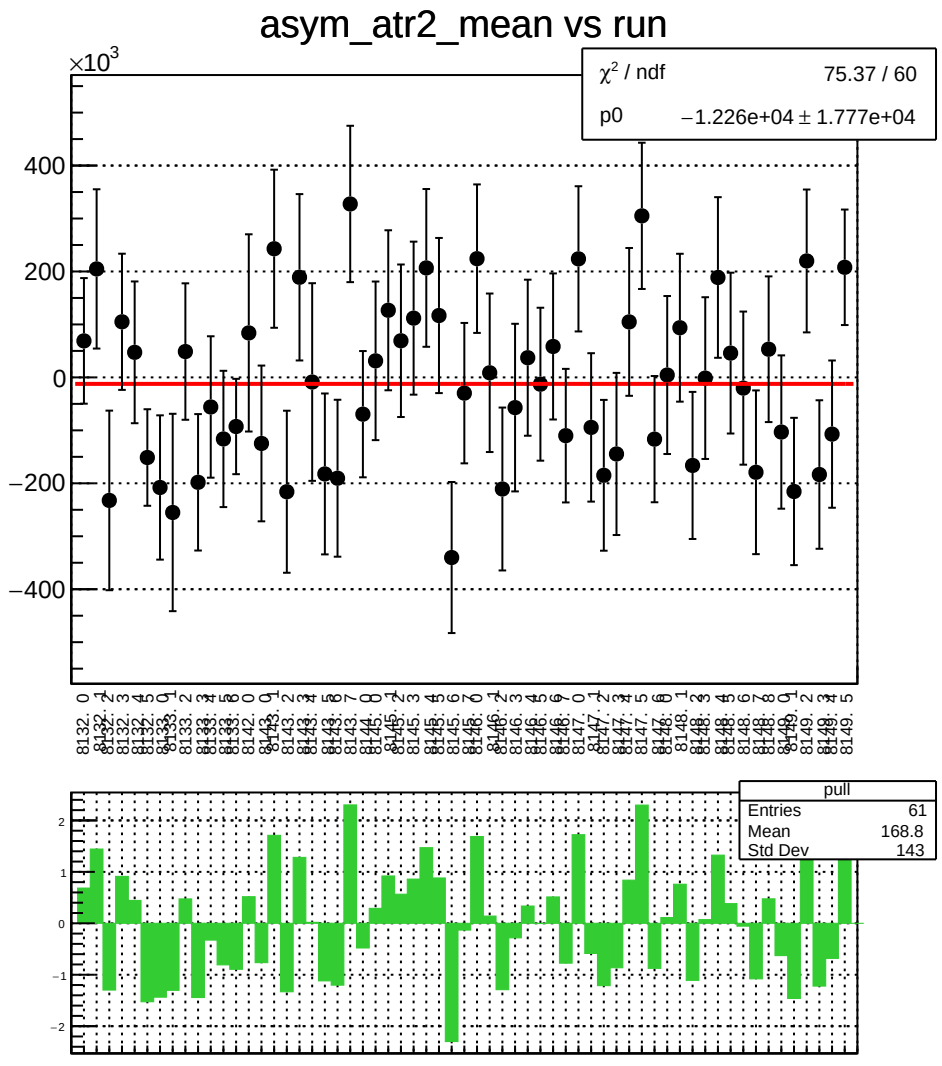

pull1D
Entries 61
Mean −0.01053
Std Dev 0.9511

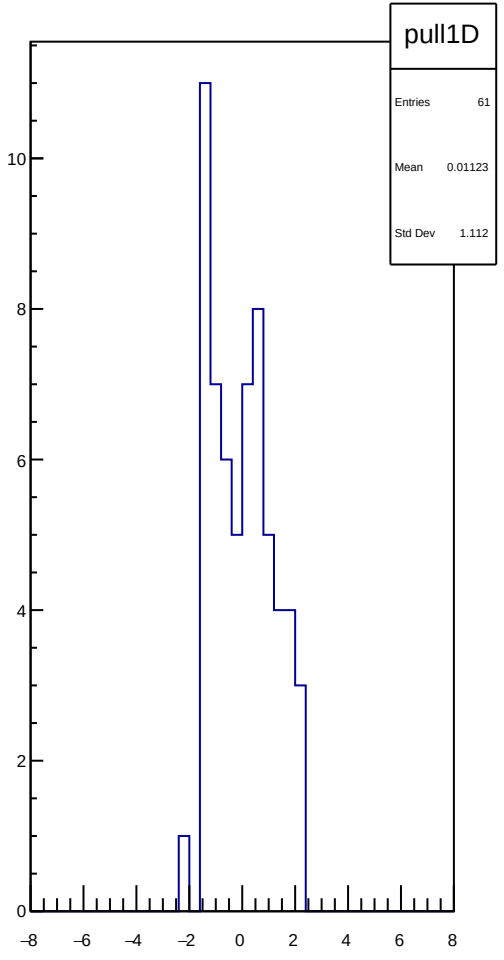

reg_asym_atr2_rms vs run
χ² / ndf 3.109e+04 / 60
p0 2835 ± 2.654
10000
8000
6000
4000
2000

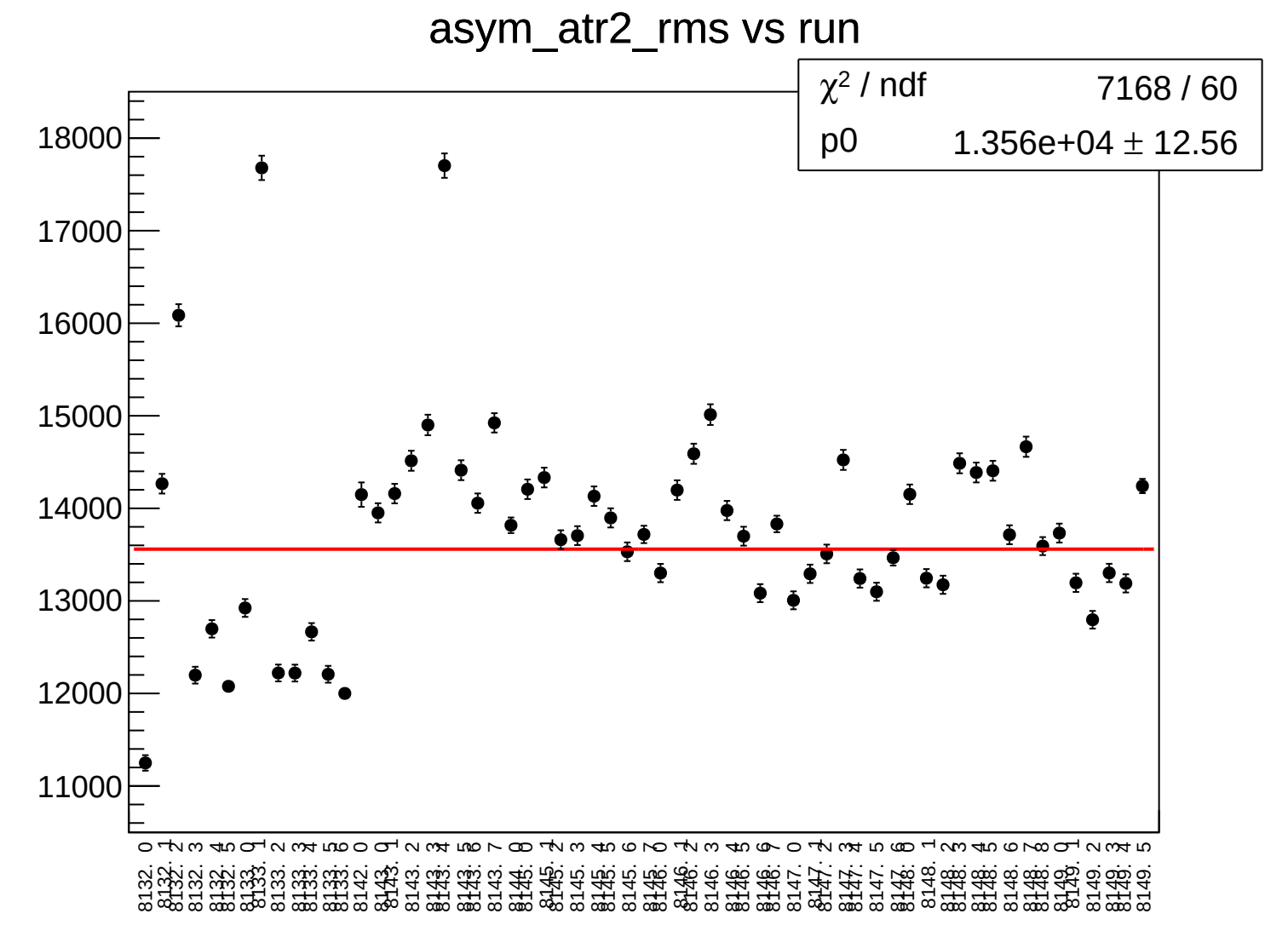

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 72.88 / 60
p0 1.271e+04 ± 1.728e+04
400
200
0
−200
−400
pull
Entries 61
Mean 142.2
Std Dev 114.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

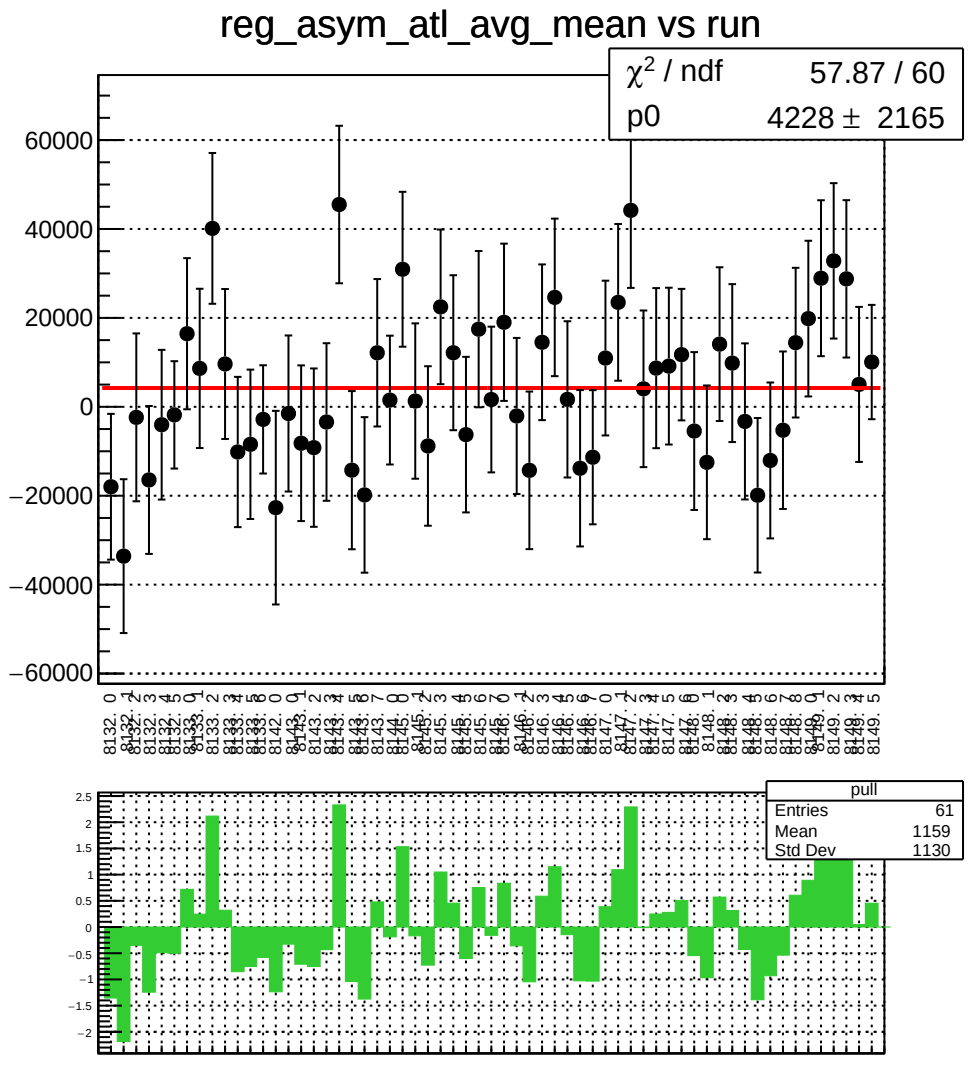

pull1D
Entries 61
Mean −0.01425
Std Dev 1.093
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

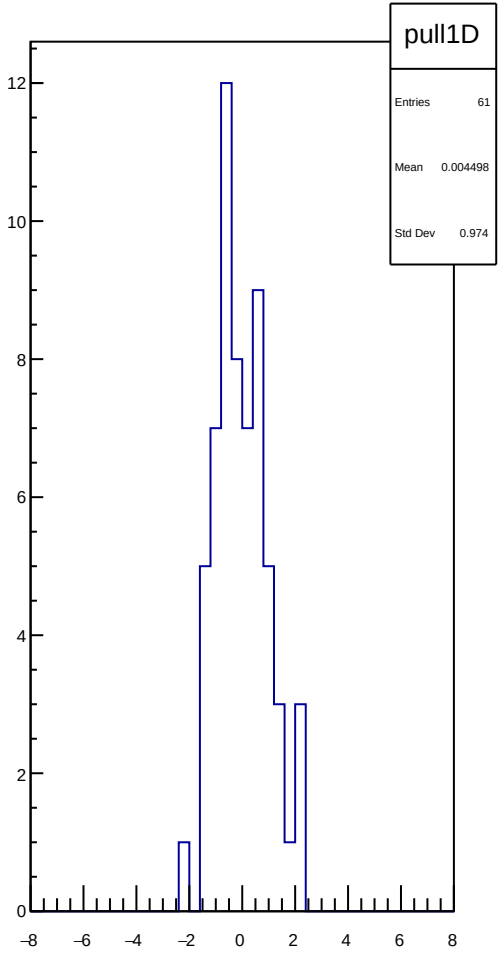

asym_atr2_correction_rms vs run
χ² / ndf 5260 / 60
p0 1.32e+04 ± 12.22
16000
15000
14000
13000
12000
11000

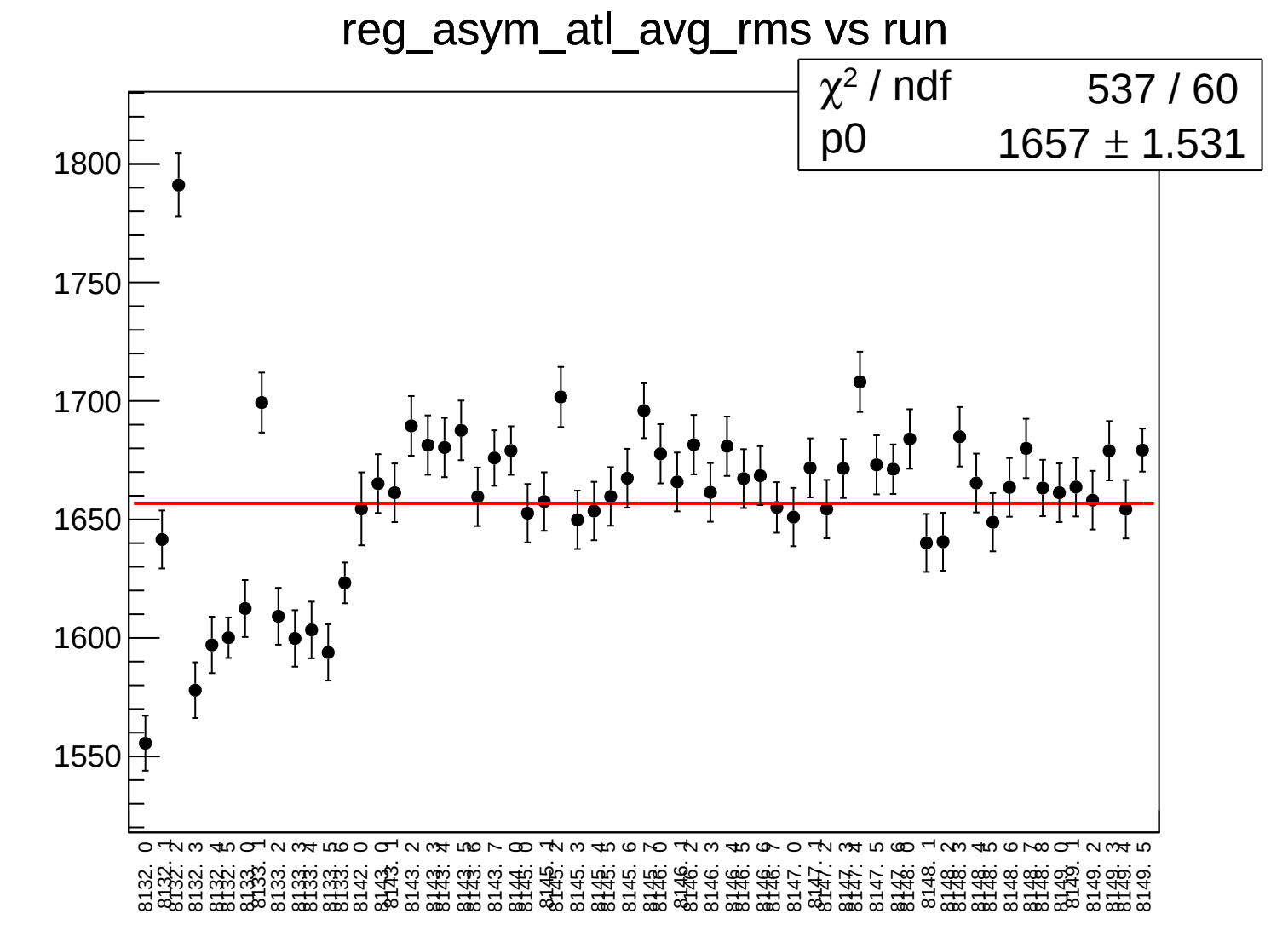

asym_atr2_mean vs run
×10^3
χ² / ndf 75.37 / 60
p0 −1.226e+04 ± 1.777e+04
400
200
0
−200
−400
pull
Entries 61
Mean 168.8
Std Dev 143
2
1
0
−1
−2

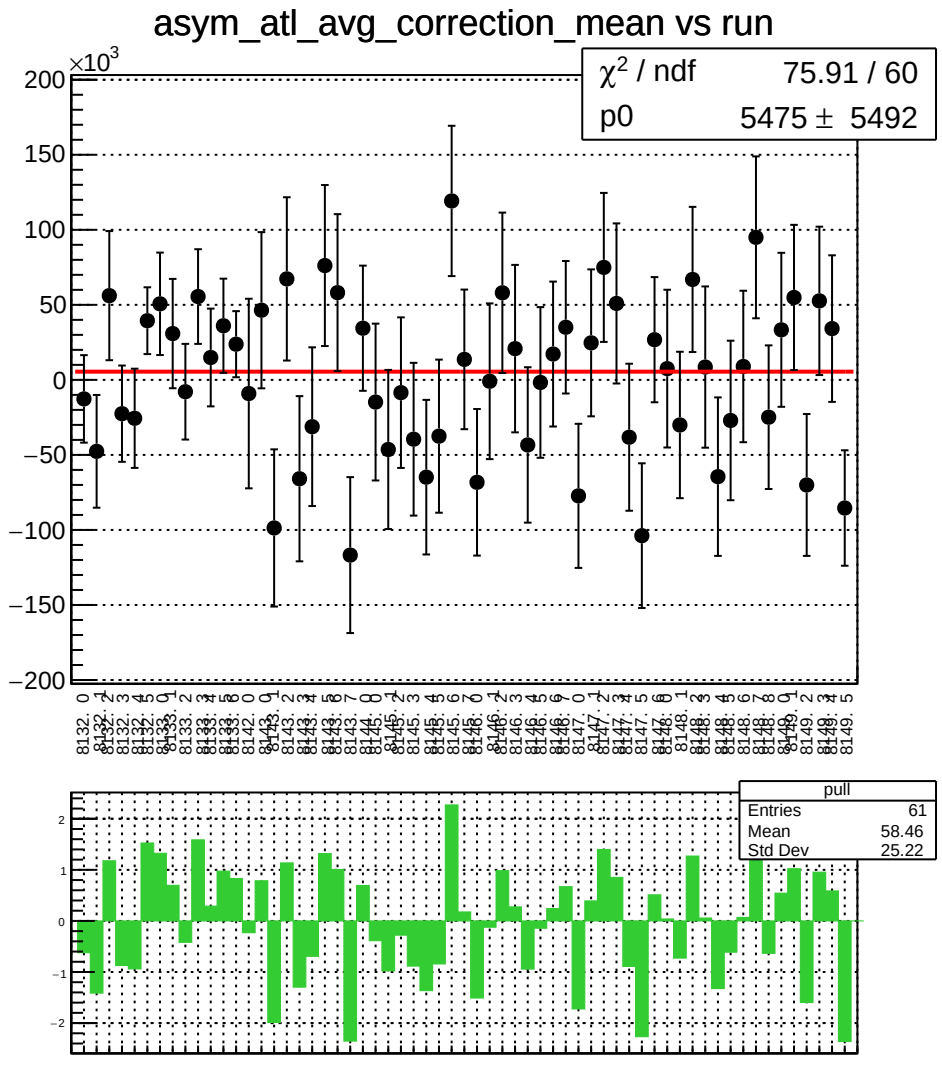

pull1D
Entries 61
Mean 0.01123
Std Dev 1.112
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

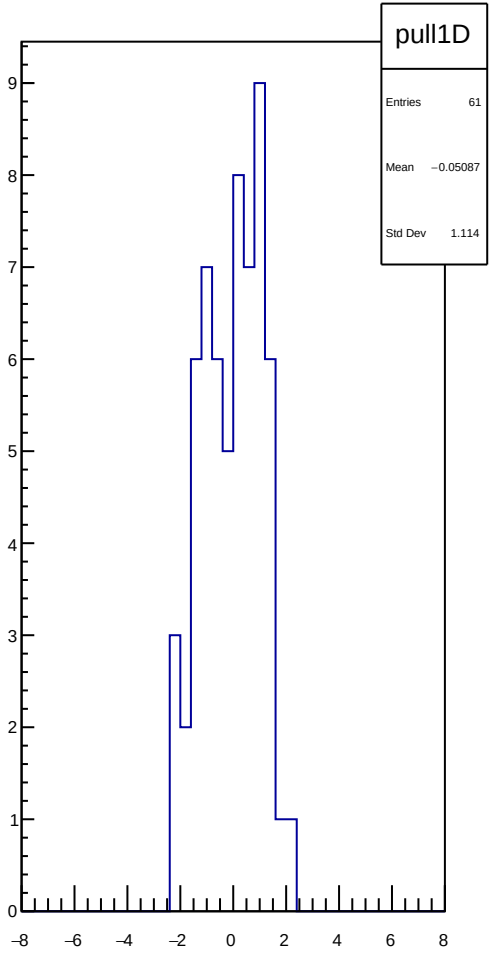

asym_atr2_rms vs run
χ² / ndf 7168 / 60
p0 1.356e+04 ± 12.56
18000
17000
16000
15000
14000
13000
12000
11000

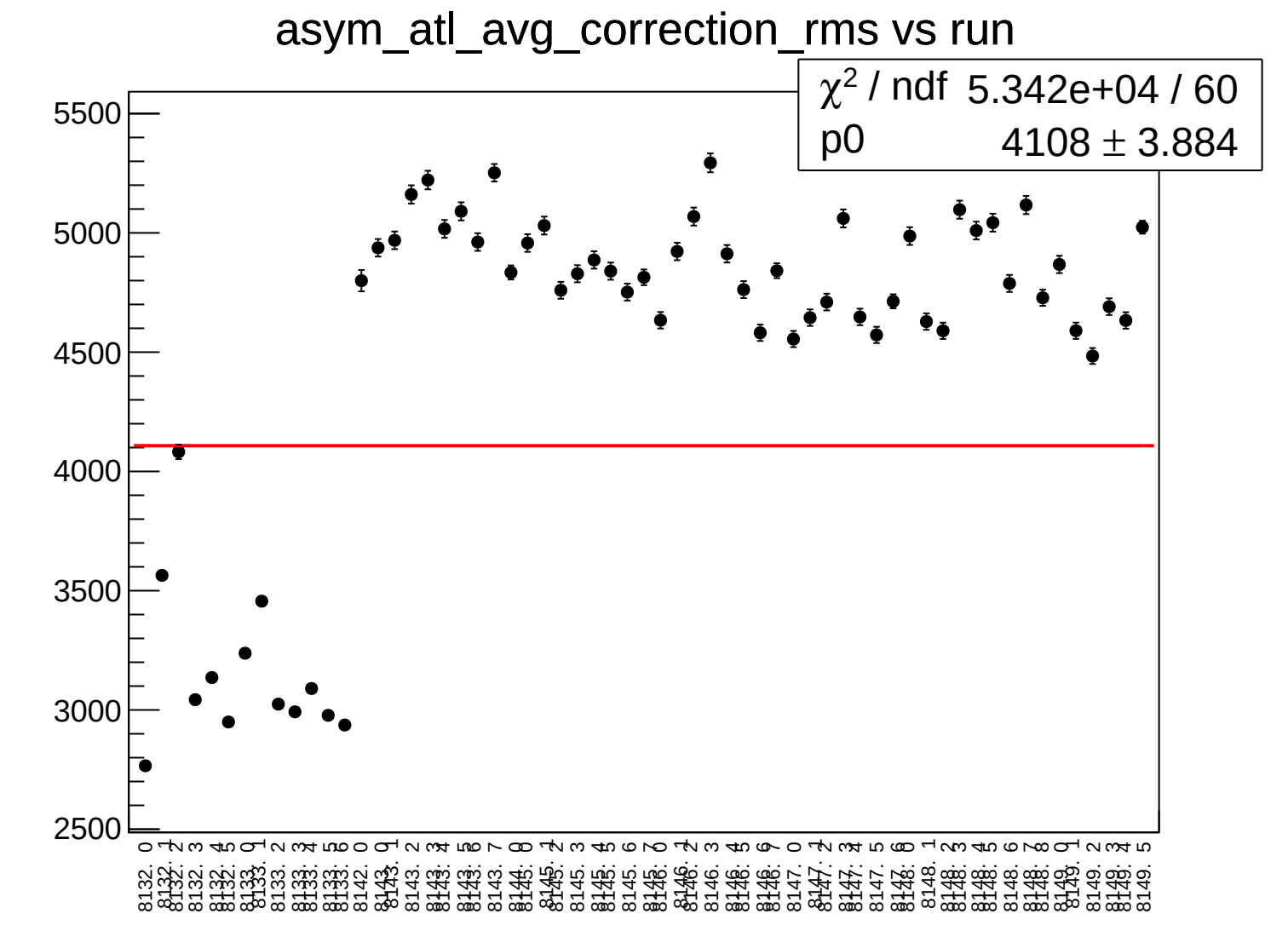

reg_asym_atl_avg_mean vs run
χ² / ndf 57.87 / 60
p0 4228 ± 2165
pull
Entries 61
Mean 1159
Std Dev 1130

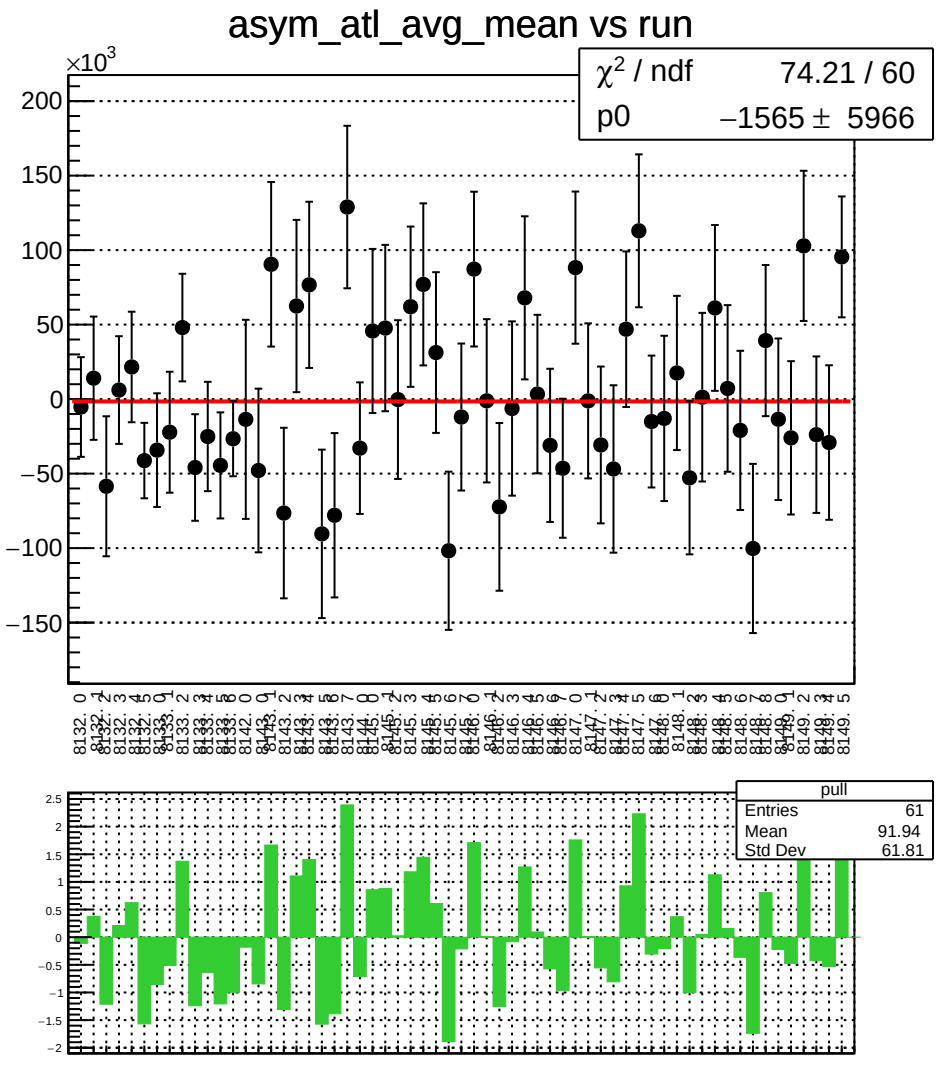

pull1D
Entries 61
Mean 0.004498
Std Dev 0.974

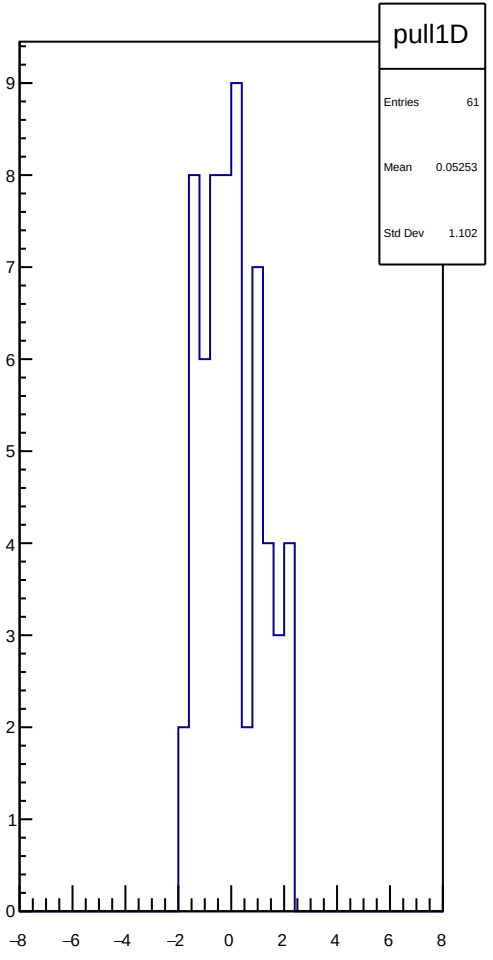

reg_asym_atl_avg_rms vs run
χ^2 / ndf 537 / 60
p0 1657 ± 1.531
1800
1750
1700
1650
1600
1550

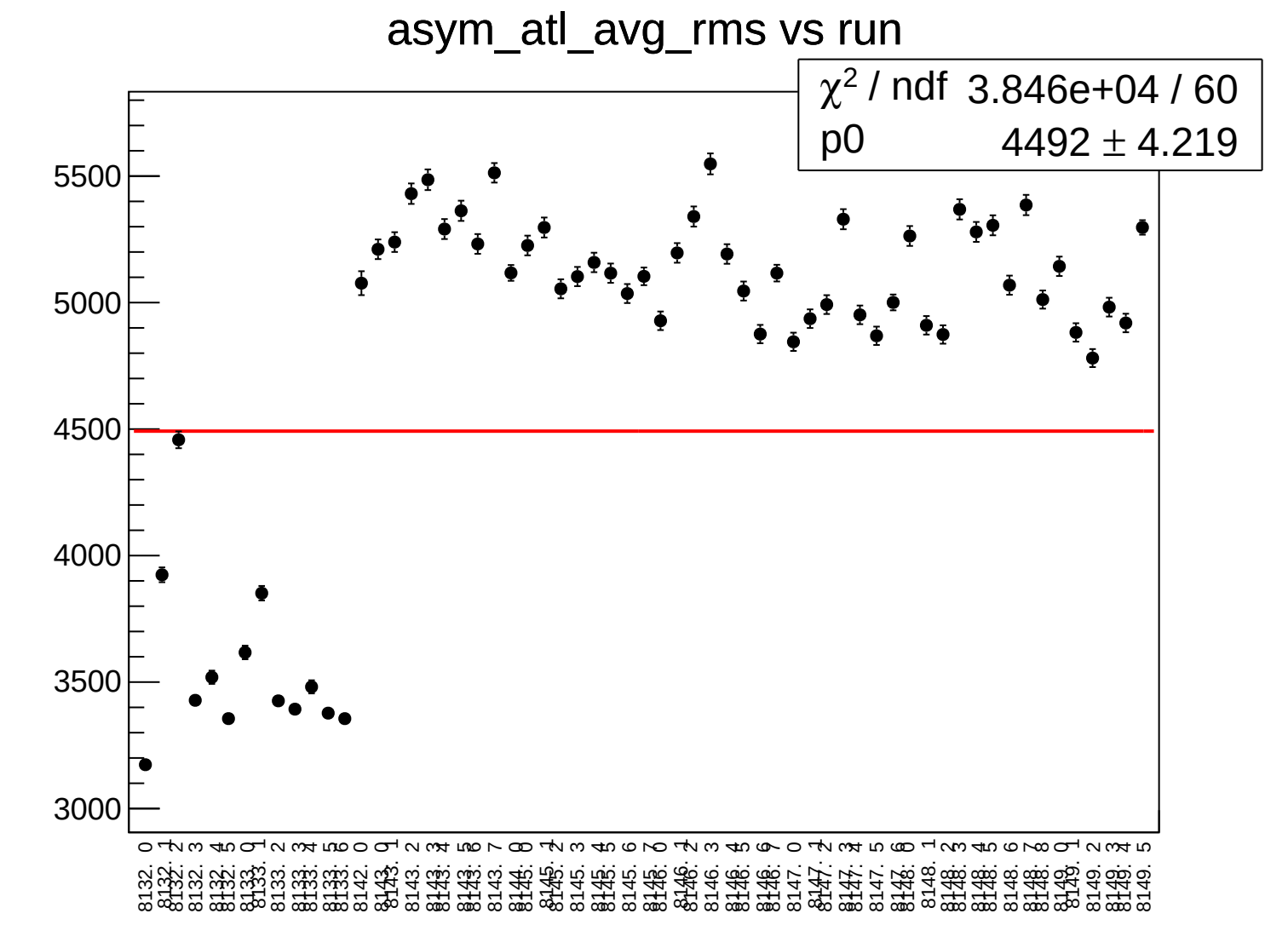

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 75.91 / 60
p0 5475 ± 5492
pull
Entries 61
Mean 58.46
Std Dev 25.22

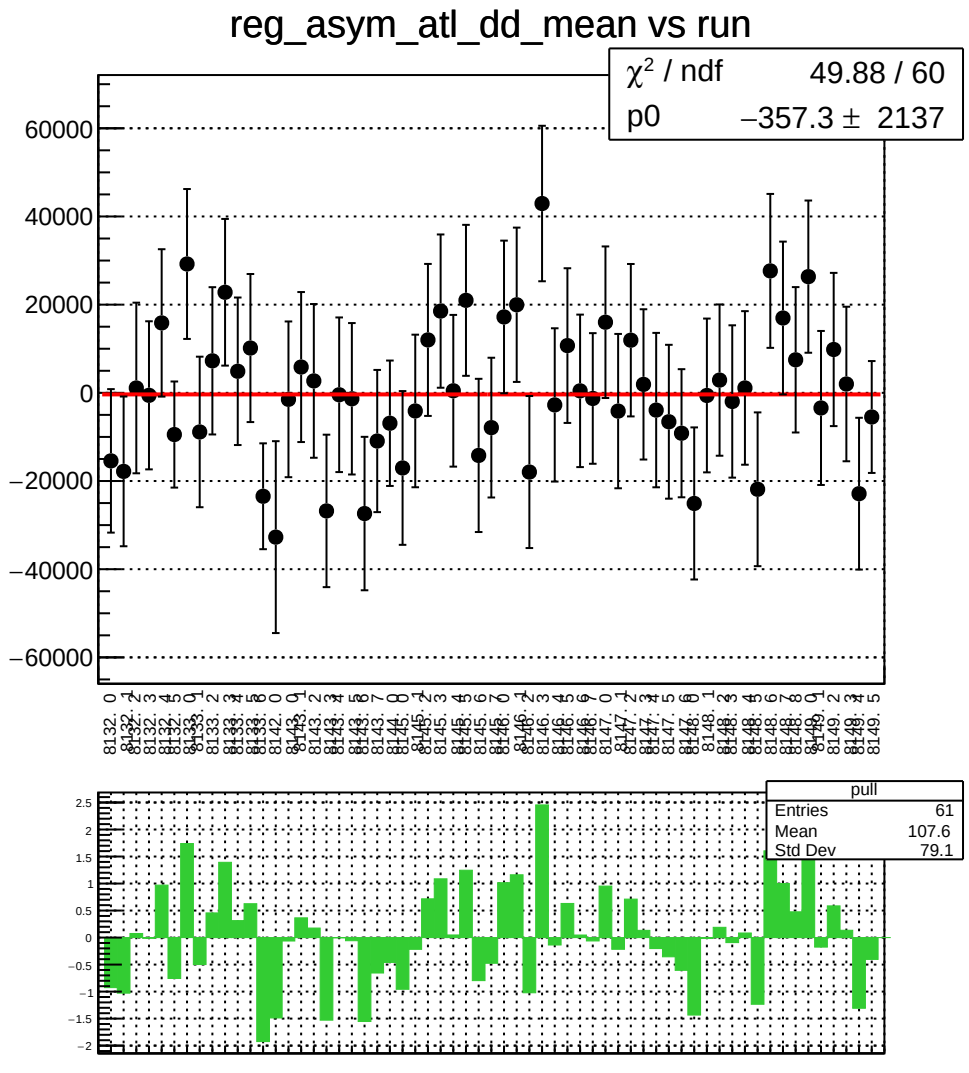

pull1D
Entries 61
Mean −0.05087
Std Dev 1.114

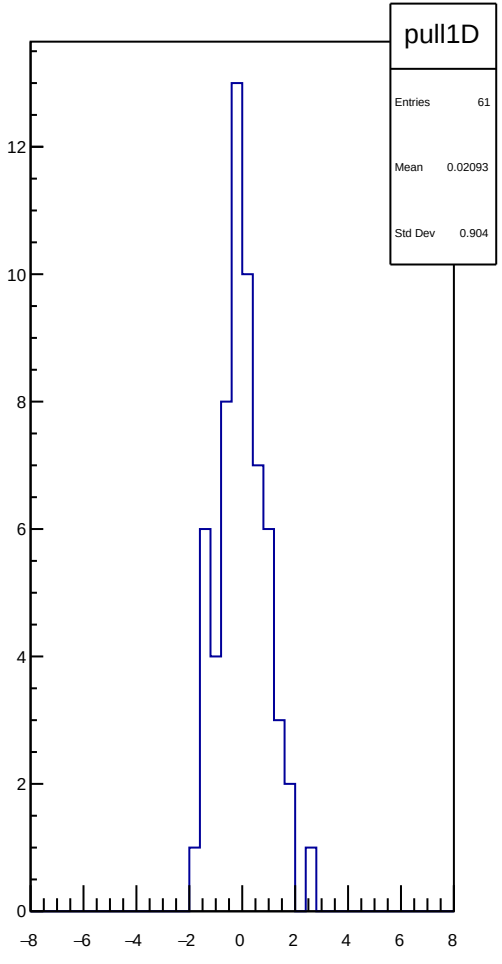

asym_atl_avg_correction_rms vs run
χ² / ndf 5.342e+04 / 60
p0 4108 ± 3.884
5500
5000
4500
4000
3500
3000
2500

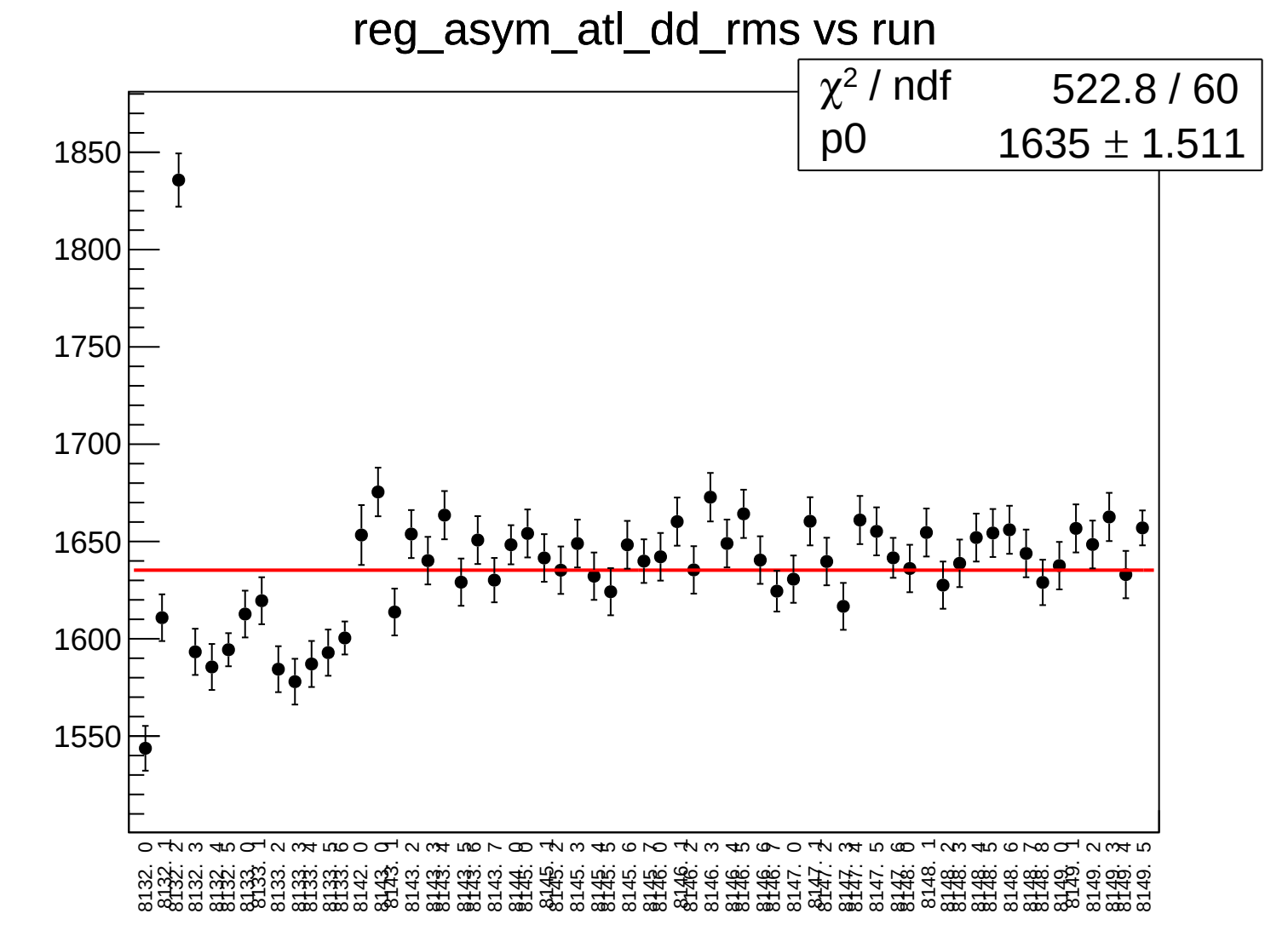

asym_atl_avg_mean vs run
×10^3
χ² / ndf 74.21 / 60
p0 −1565 ± 5966
pull
Entries 61
Mean 91.94
Std Dev 61.81

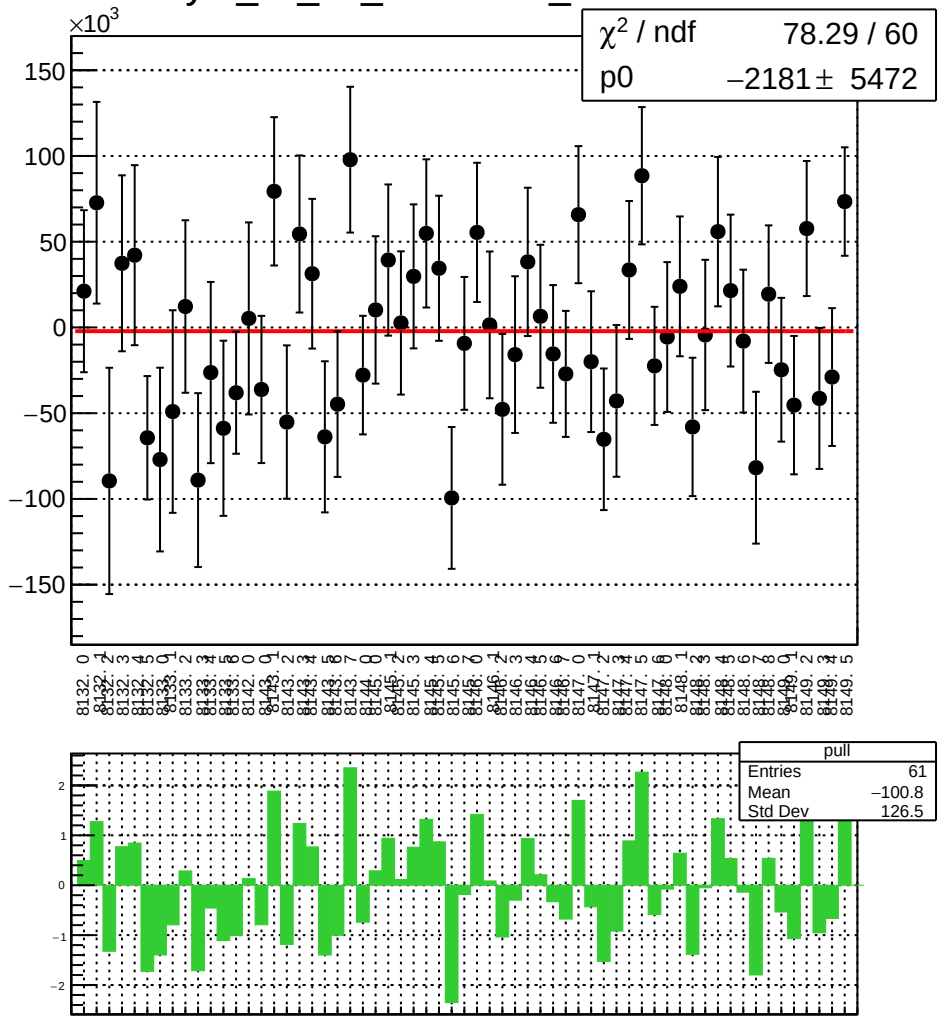

pull1D
Entries 61
Mean 0.05253
Std Dev 1.102

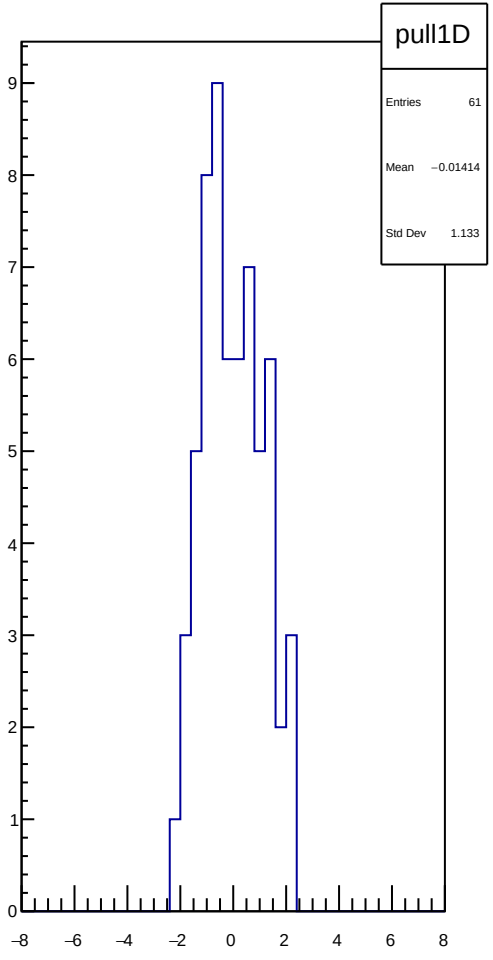

asym_atl_avg_rms vs run
χ² / ndf 3.846e+04 / 60
p0 4492 ± 4.219
5500
5000
4500
4000
3500
3000

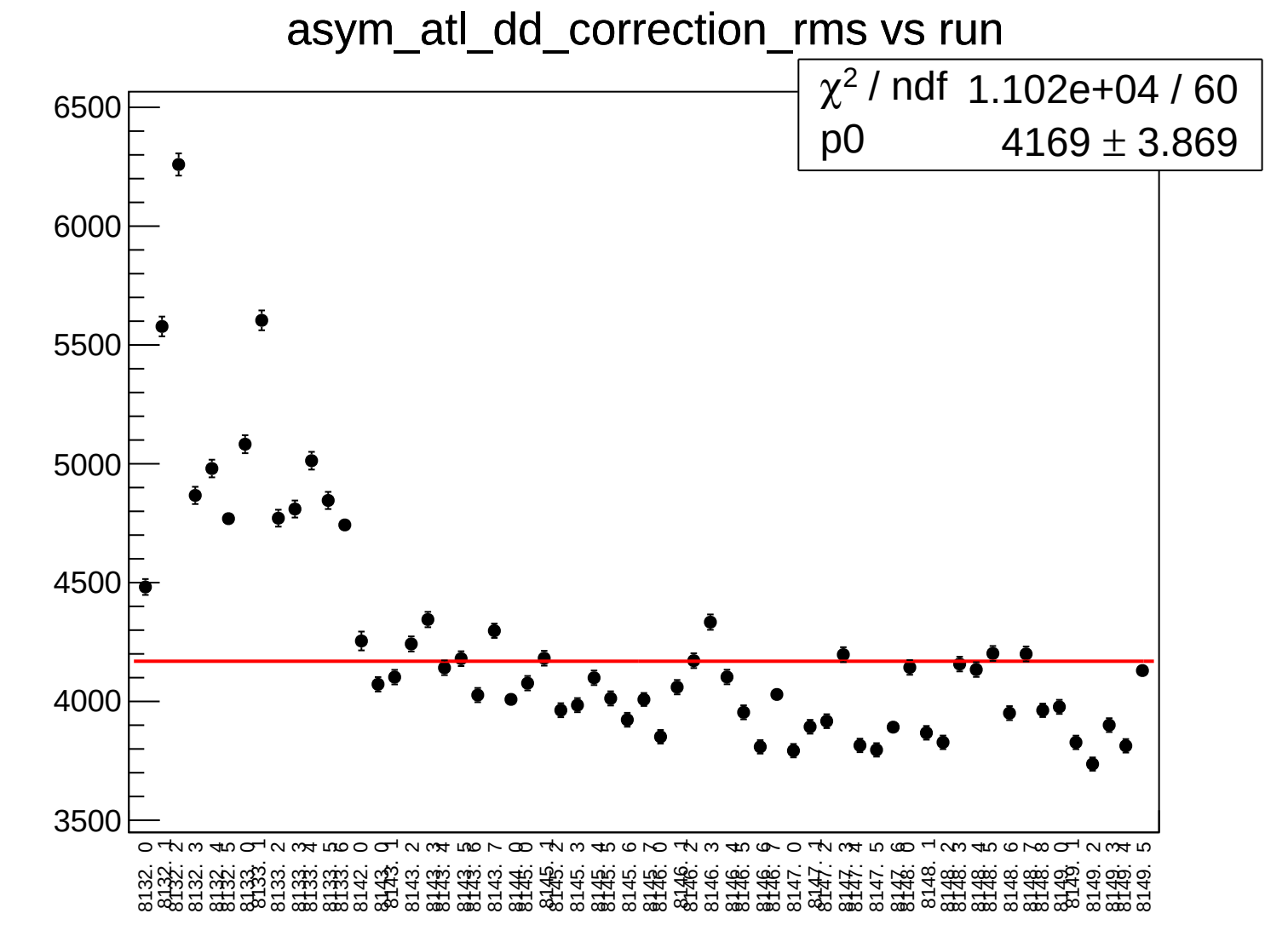

reg_asym_atl_dd_mean vs run
χ² / ndf 49.88 / 60
p0 −357.3 ± 2137
pull
Entries 61
Mean 107.6
Std Dev 79.1

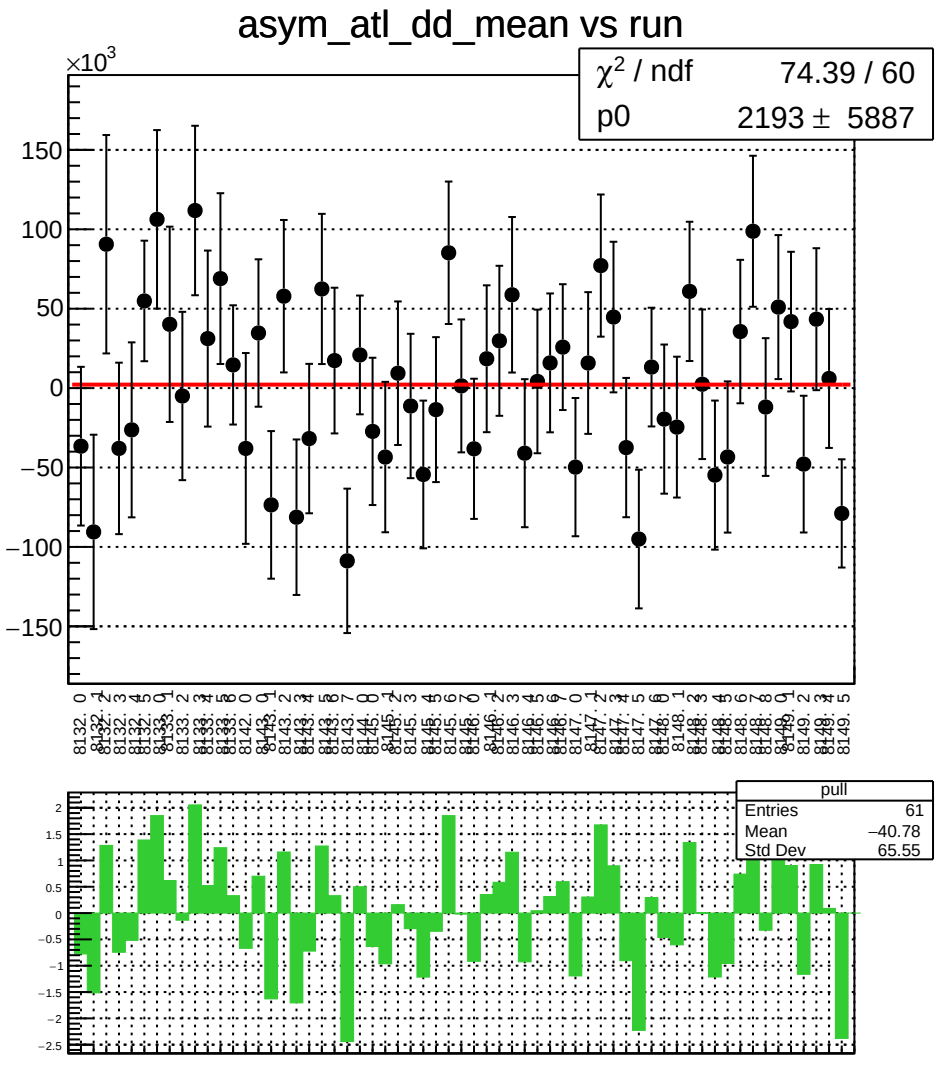

pull1D
Entries 61
Mean 0.02093
Std Dev 0.904

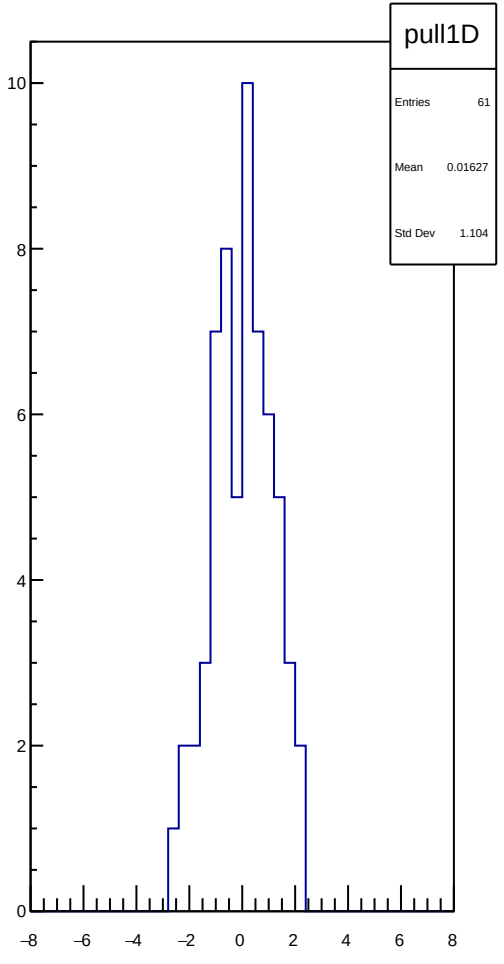

reg_asym_atl_dd_rms vs run
χ² / ndf 522.8 / 60
p0 1635 ± 1.511
1850
1800
1750
1700
1650
1600
1550

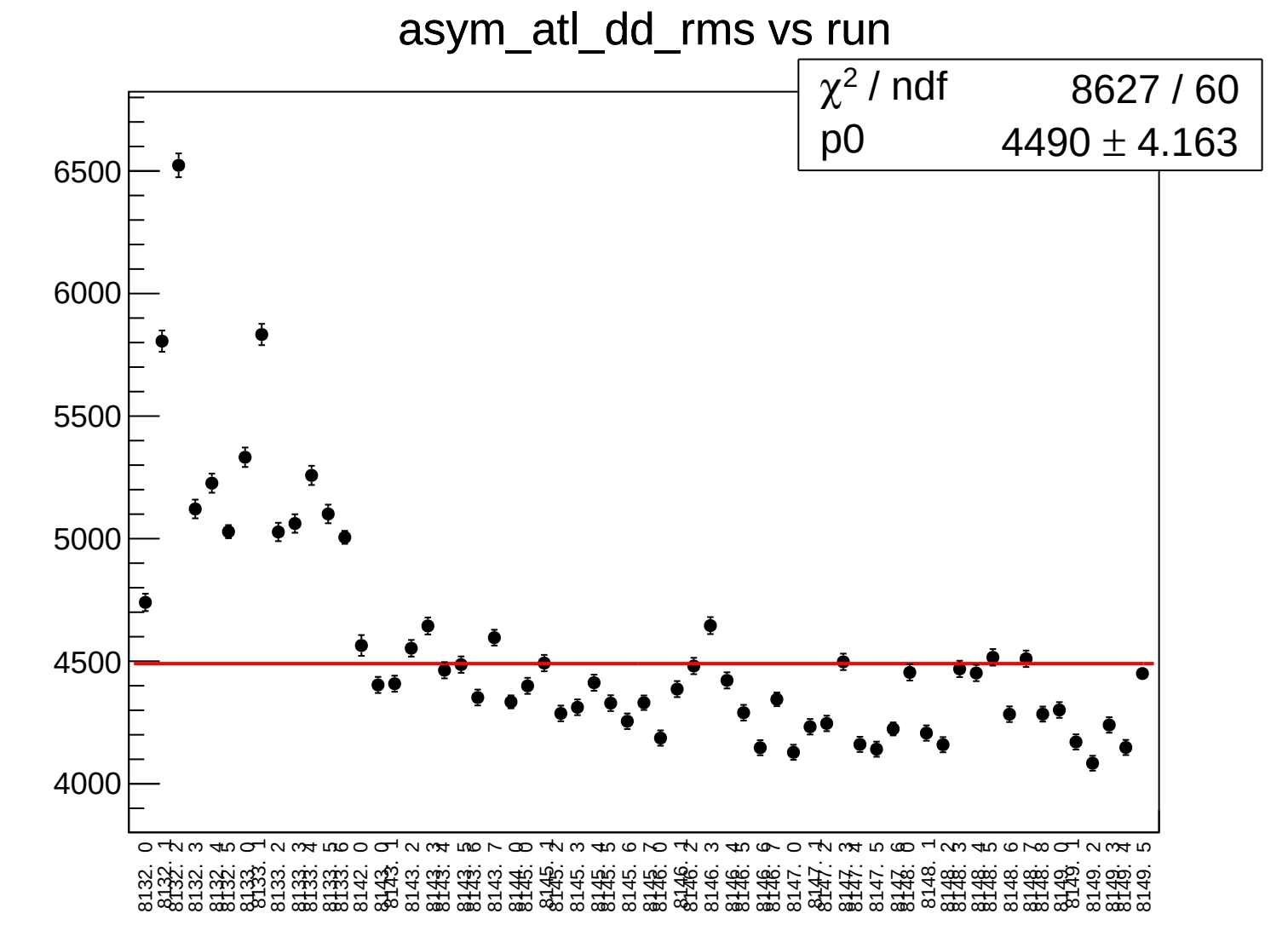

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 78.29 / 60
p0 −2181 ± 5472
150
100
50
0
−50
−100
−150
pull
Entries 61
Mean −100.8
Std Dev 126.5
2
1
0
−1
−2

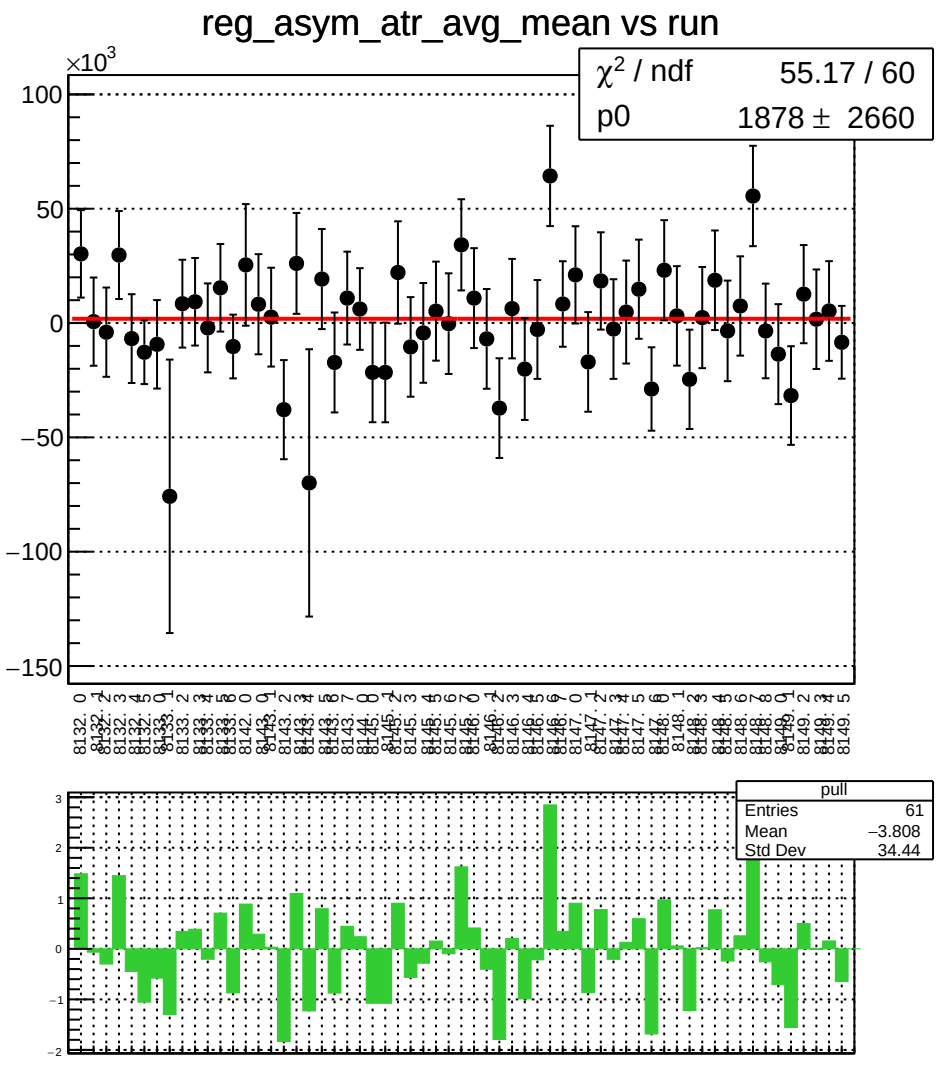

pull1D
Entries 61
Mean −0.01414
Std Dev 1.133
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

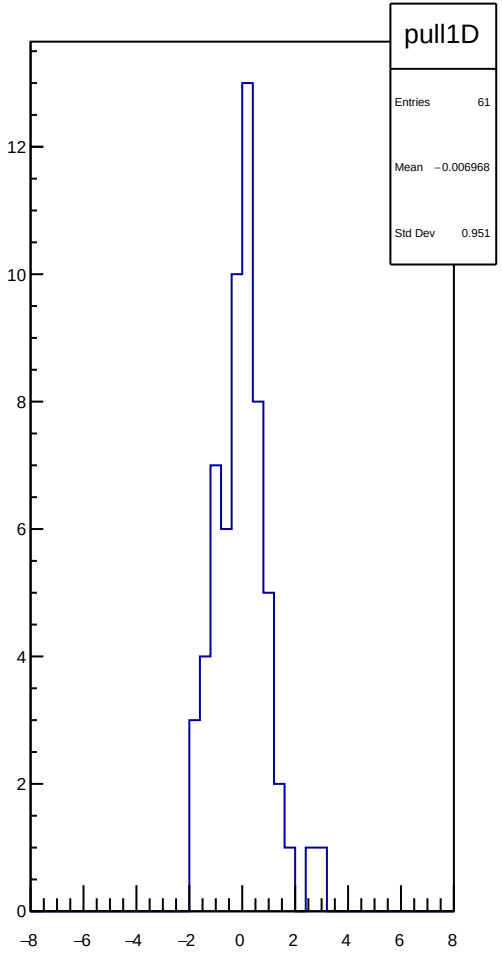

asym_atl_dd_correction_rms vs run
χ² / ndf 1.102e+04 / 60
p0 4169 ± 3.869
6500
6000
5500
5000
4500
4000
3500

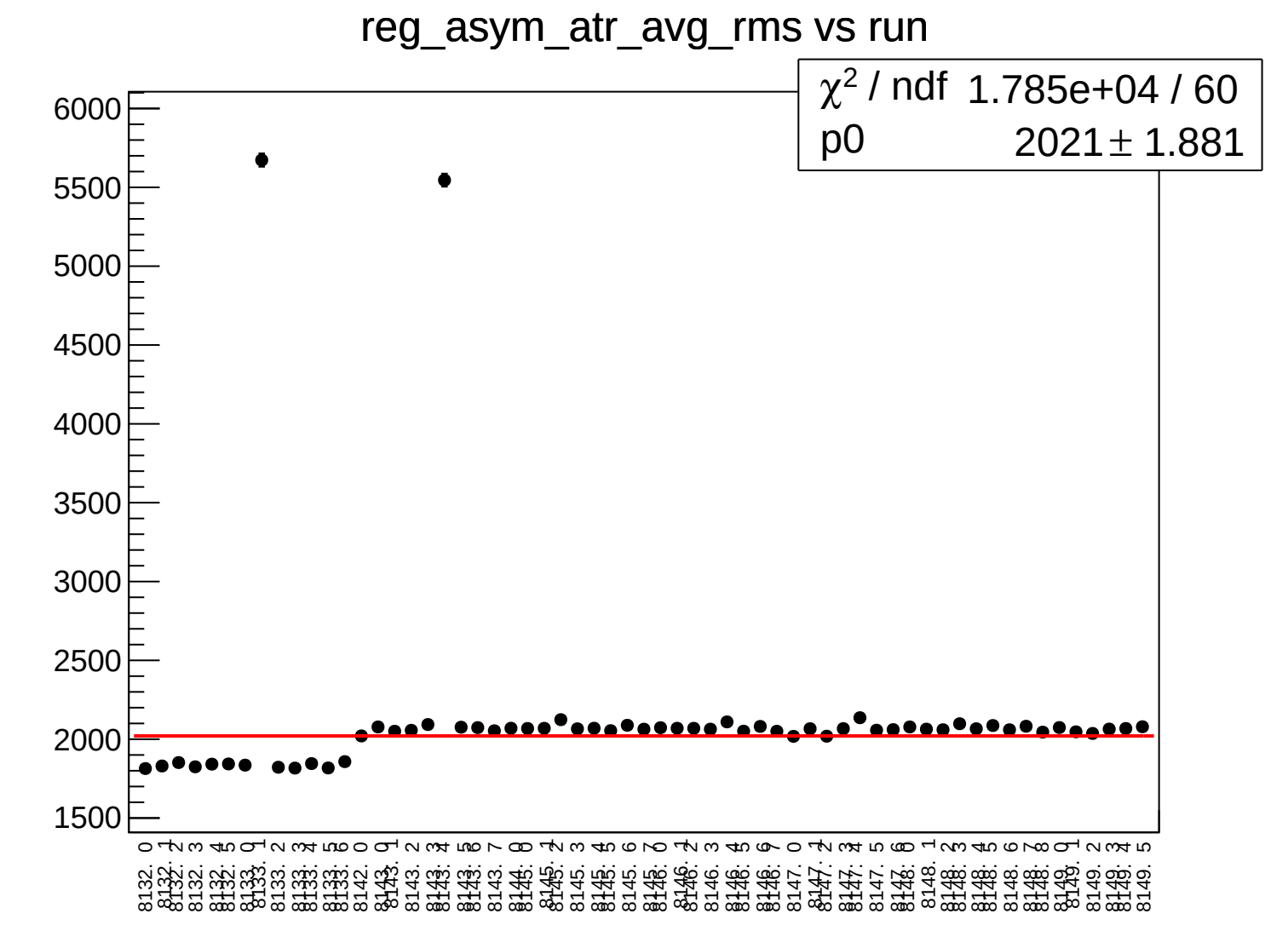

asym_atl_dd_mean vs run
×10^3
χ² / ndf 74.39 / 60
p0 2193 ± 5887
150
100
50
0
−50
−100
−150
pull
Entries 61
Mean −40.78
Std Dev 65.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

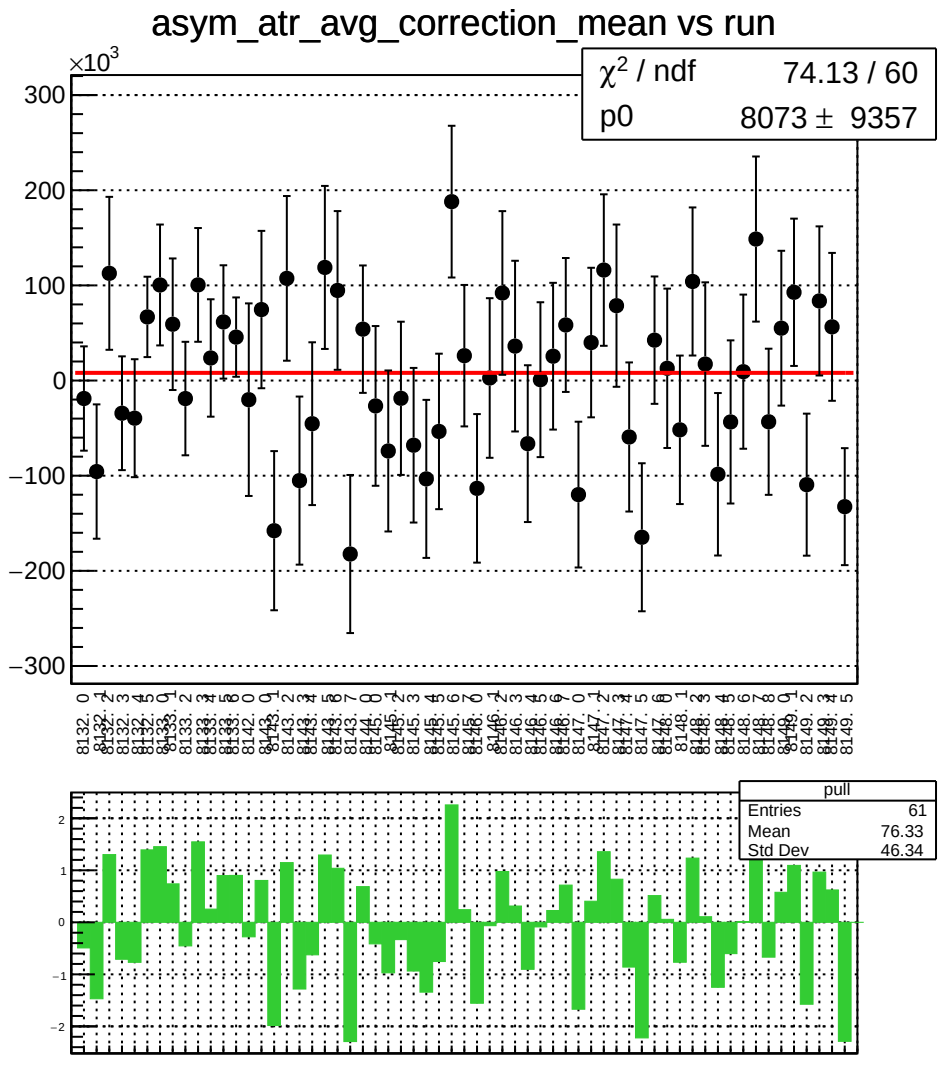

pull1D
Entries 61
Mean 0.01627
Std Dev 1.104
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

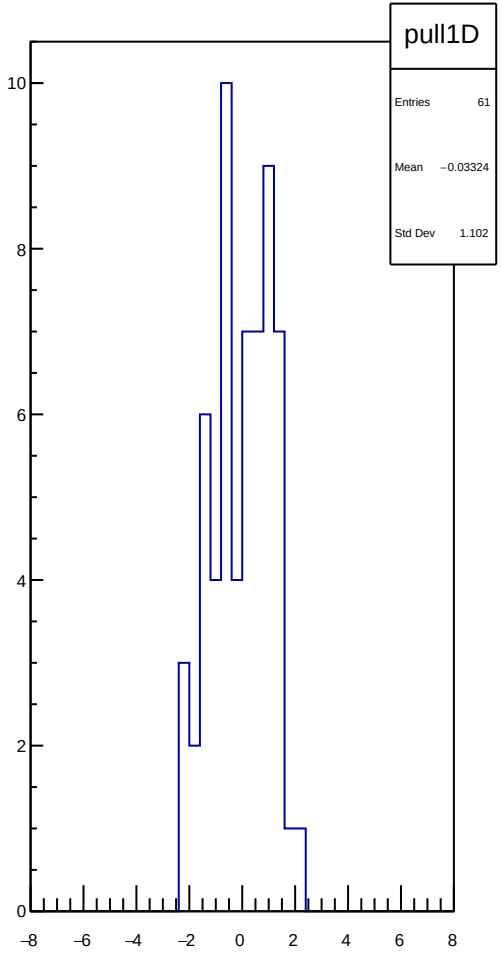

asym_atl_dd_rms vs run
χ² / ndf 8627 / 60
p0 4490 ± 4.163
6500
6000
5500
5000
4500
4000

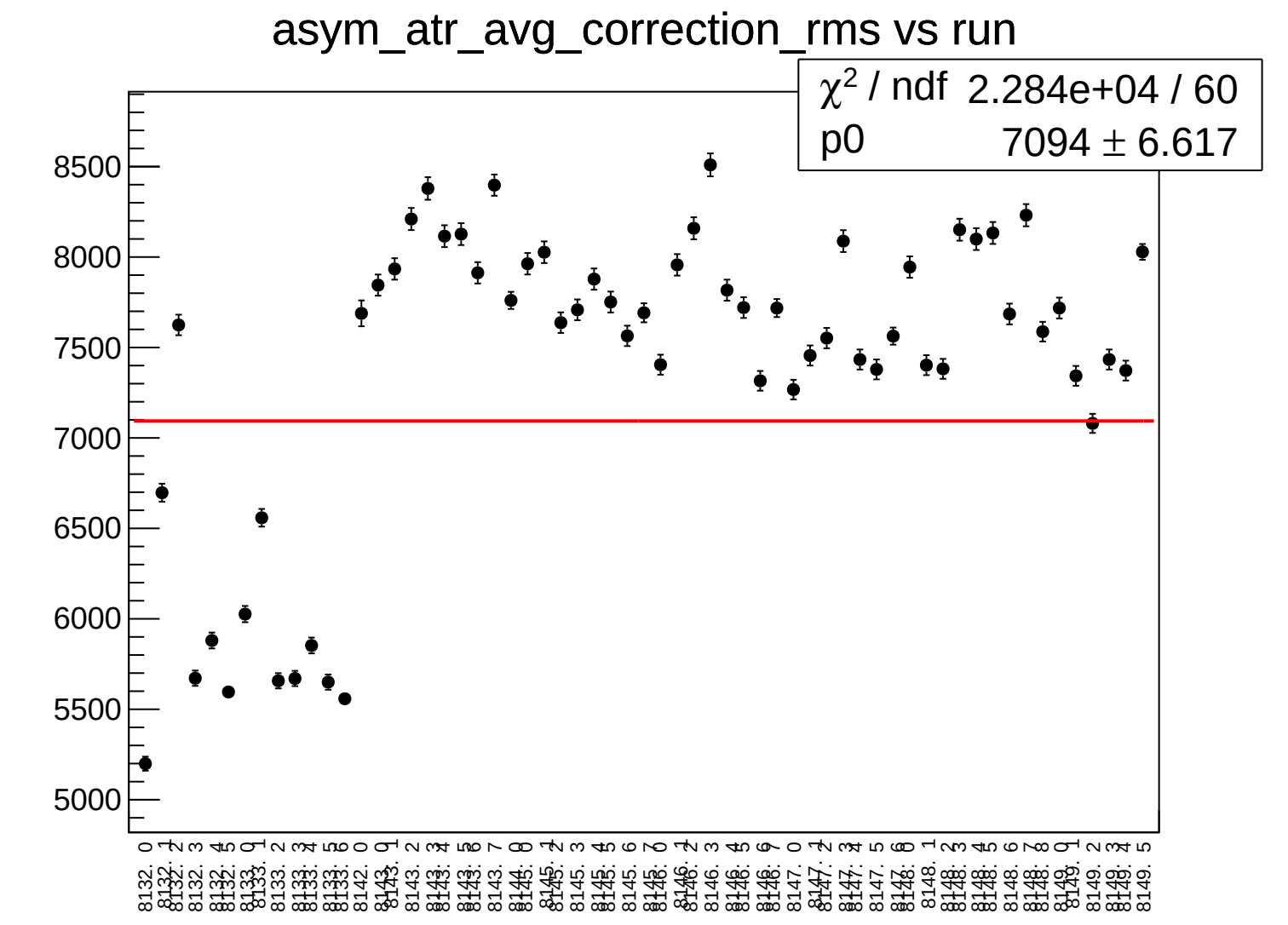

reg_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 55.17 / 60
p0 1878 ± 2660
pull
Entries 61
Mean −3.808
Std Dev 34.44

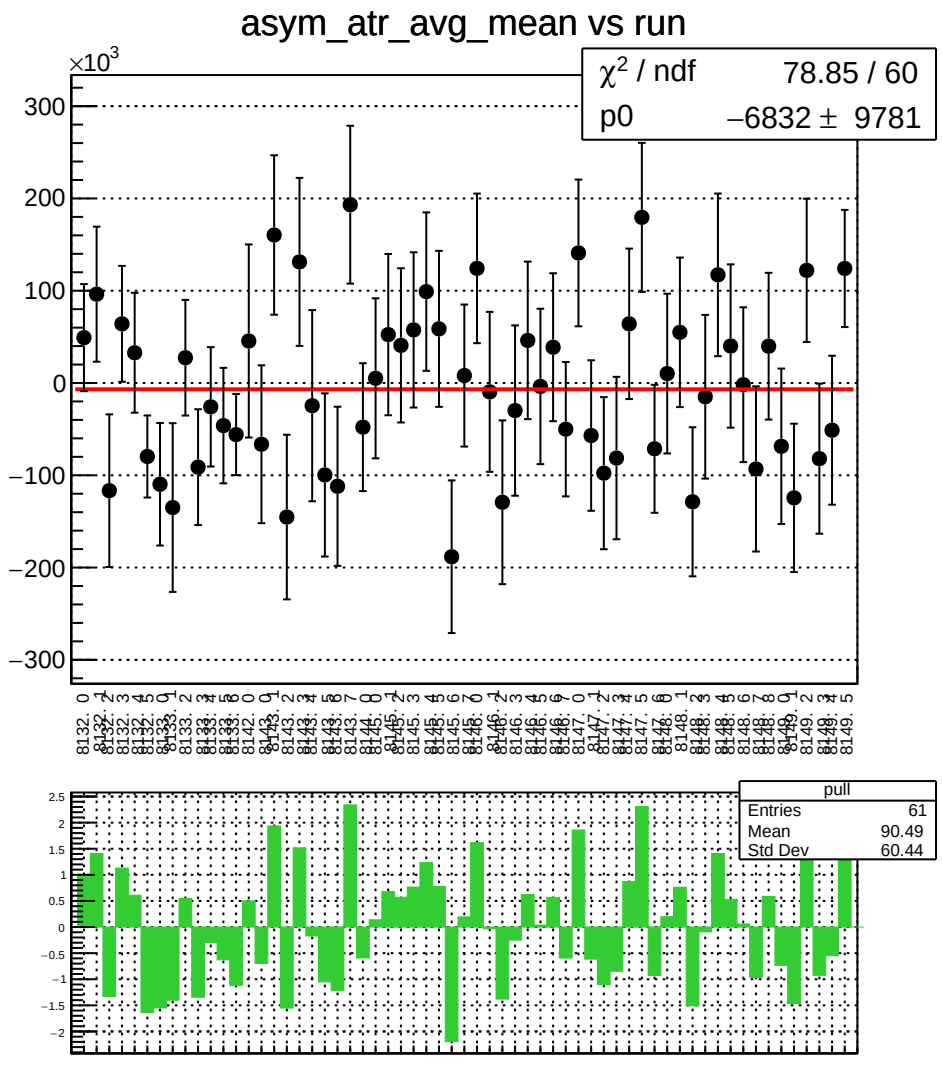

pull1D
Entries 61
Mean −0.006968
Std Dev 0.951

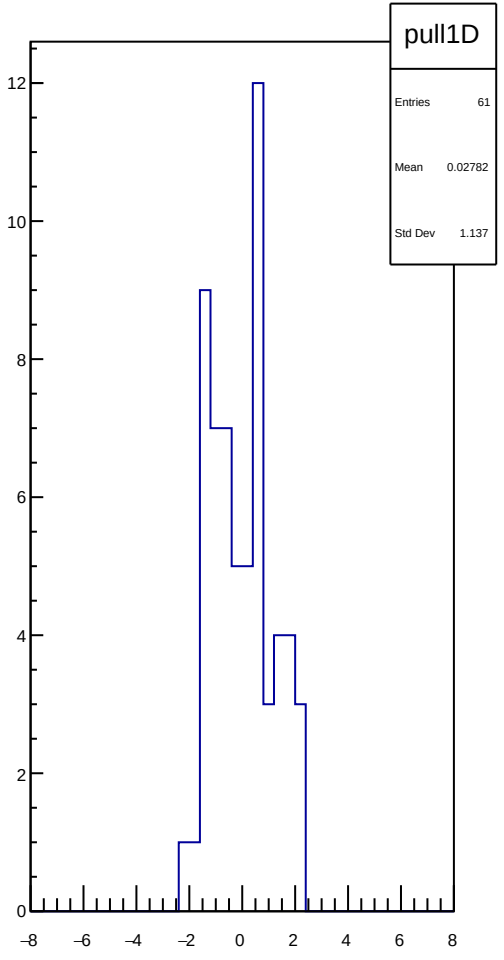

reg_asym_atr_avg_rms vs run
χ² / ndf 1.785e+04 / 60
p0 2021 ± 1.881
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

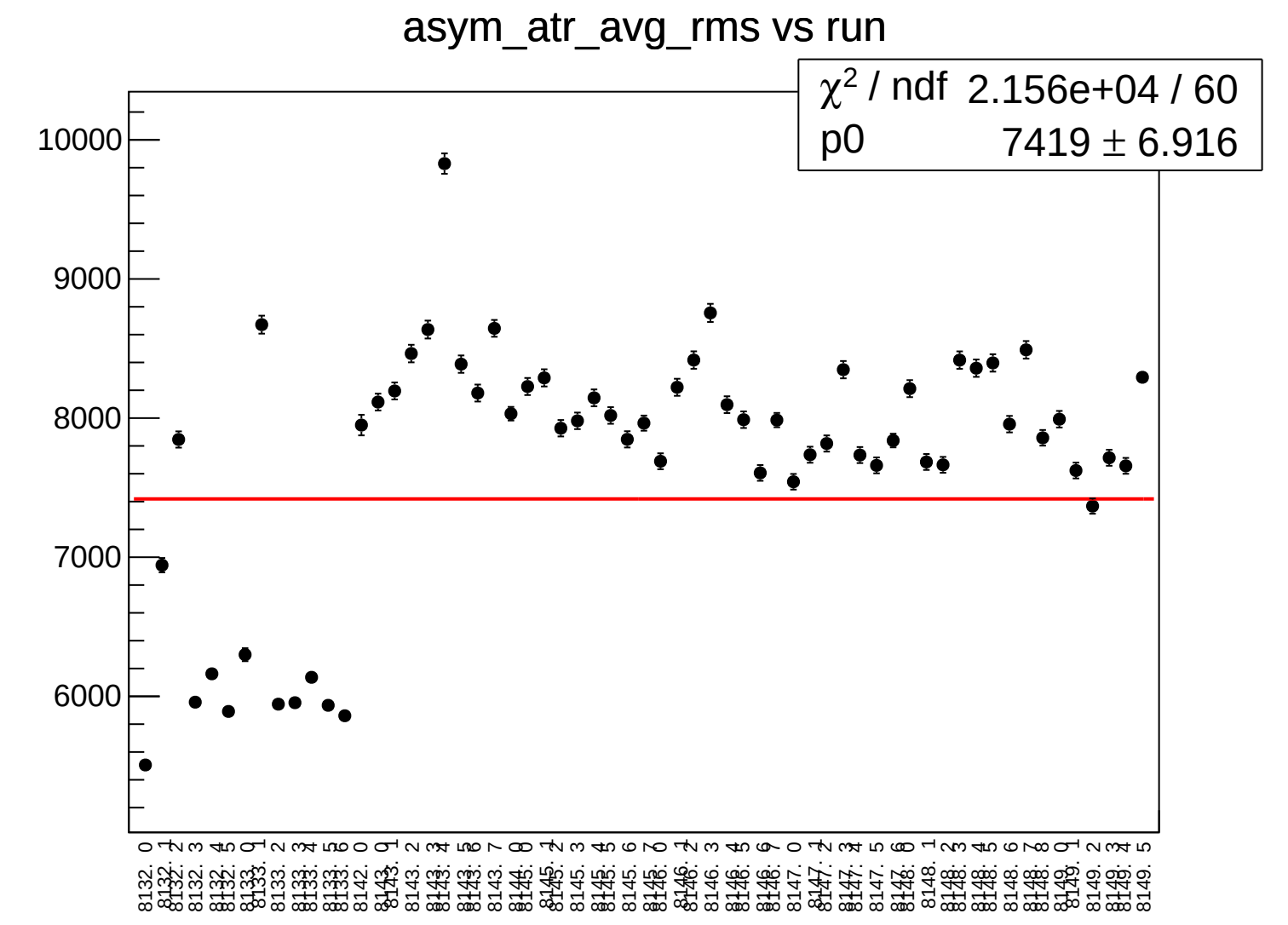

asym_atr_avg_correction_mean vs run
×10^3
χ^2 / ndf 74.13 / 60
p0 8073 ± 9357
pull
Entries 61
Mean 76.33
Std Dev 46.34

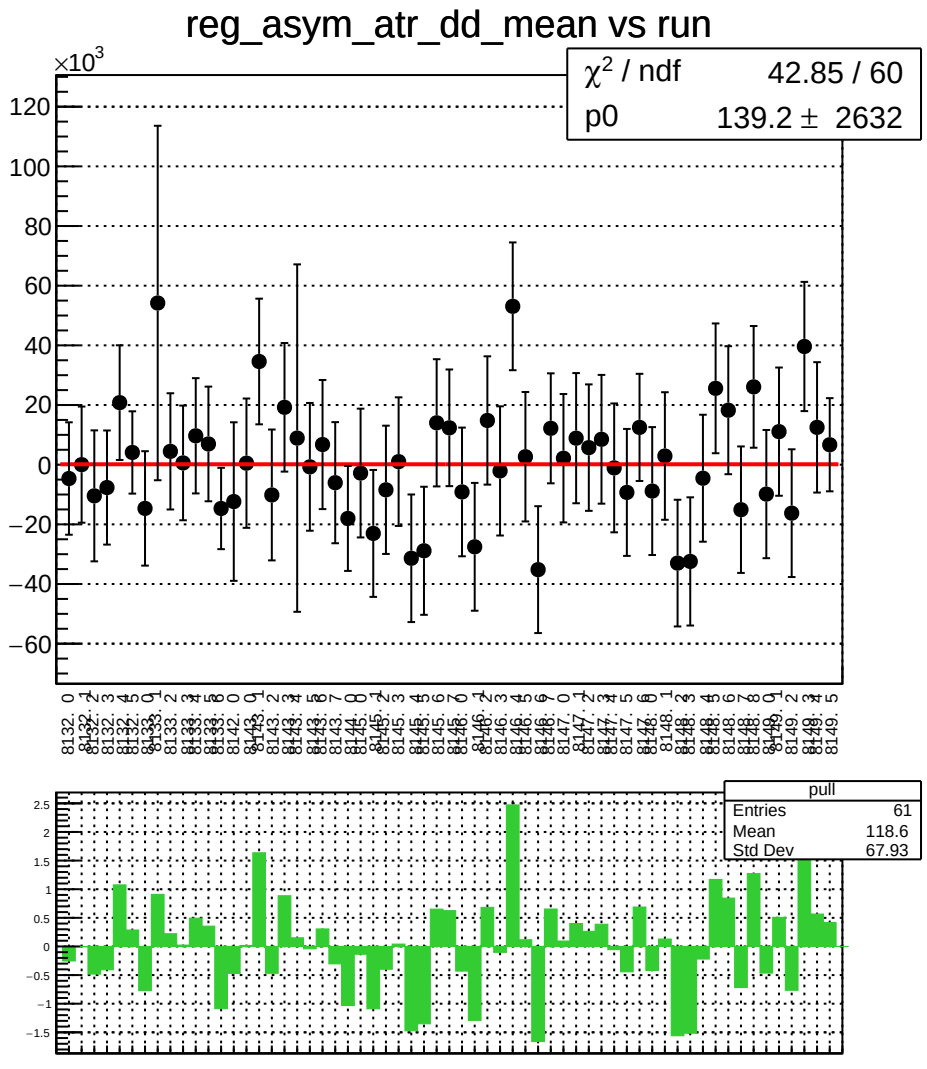

pull1D
Entries 61
Mean −0.03324
Std Dev 1.102

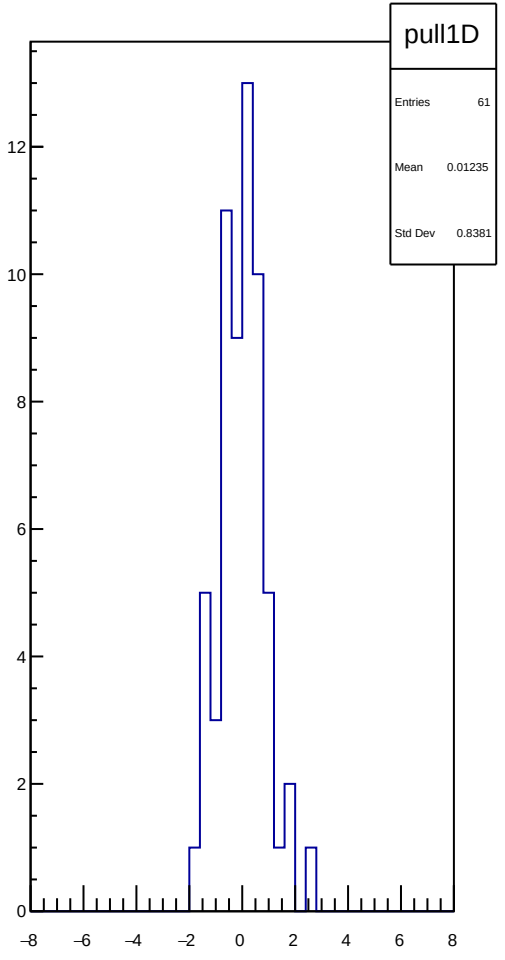

asym_atr_avg_correction_rms vs run
χ² / ndf 2.284e+04 / 60
p0 7094 ± 6.617
8500
8000
7500
7000
6500
6000
5500
5000

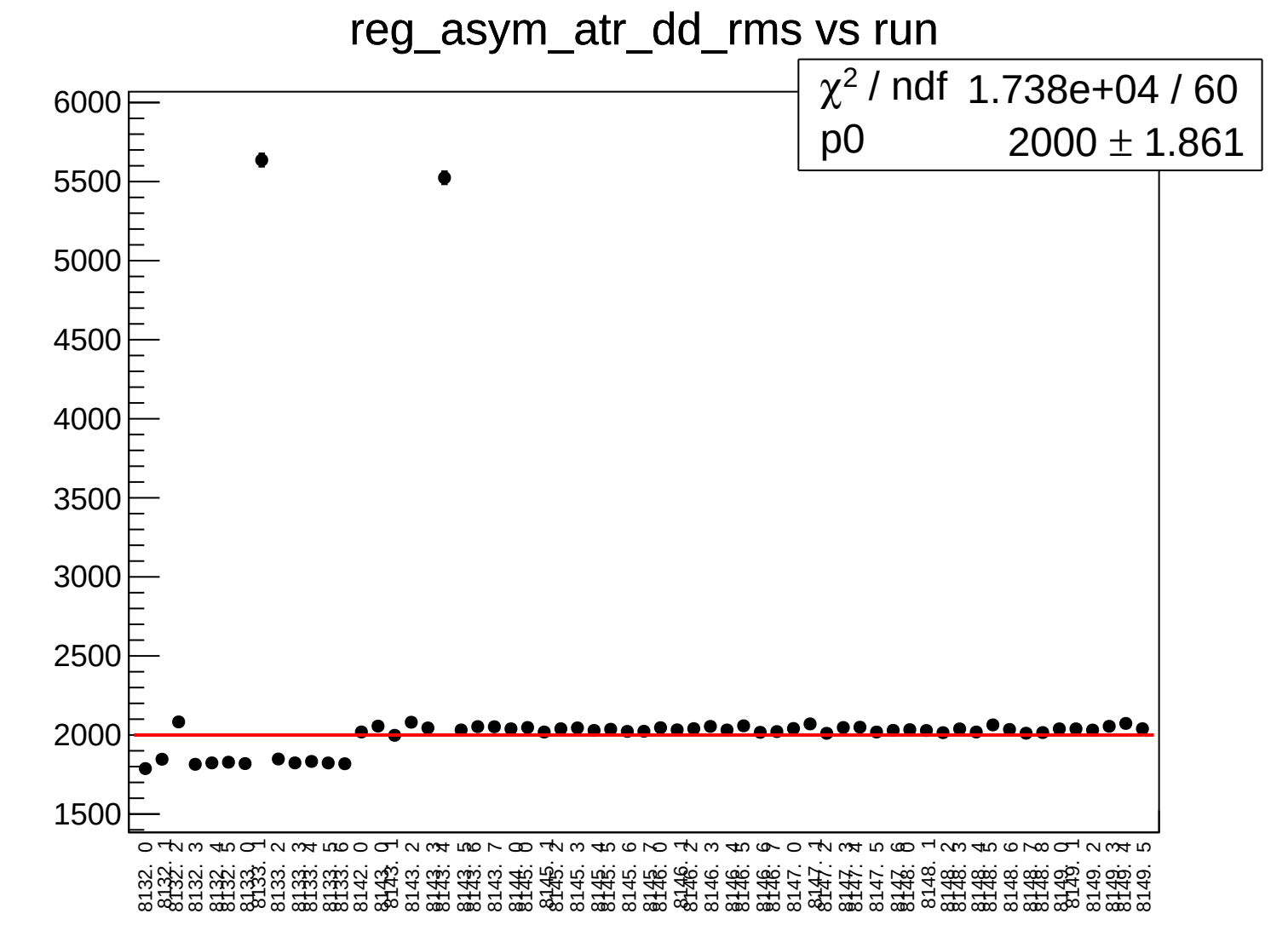

asym_atr_avg_mean vs run
×10^3
χ² / ndf 78.85 / 60
p0 −6832 ± 9781
300
200
100
0
−100
−200
−300
pull
Entries 61
Mean 90.49
Std Dev 60.44
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

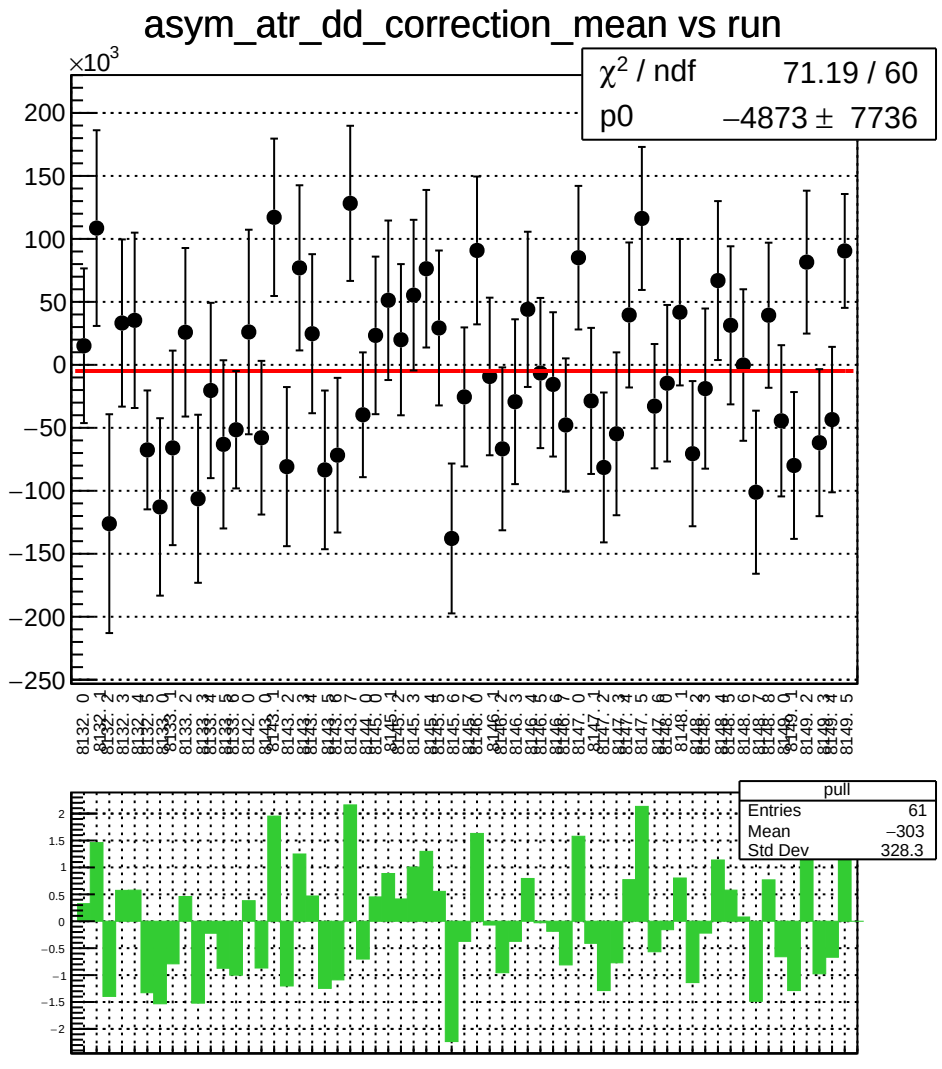

pull1D
Entries 61
Mean 0.02782
Std Dev 1.137
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

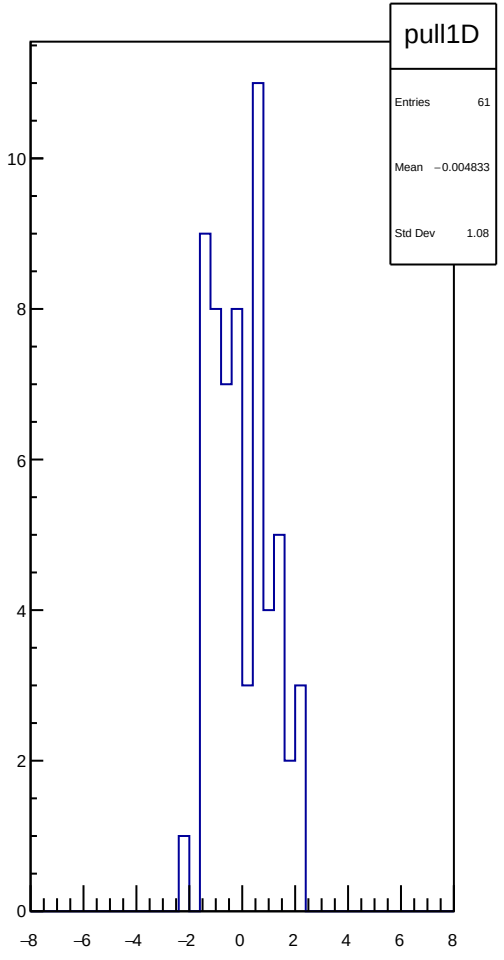

asym_atr_avg_rms vs run
χ² / ndf 2.156e+04 / 60
p0 7419 ± 6.916
10000
9000
8000
7000
6000

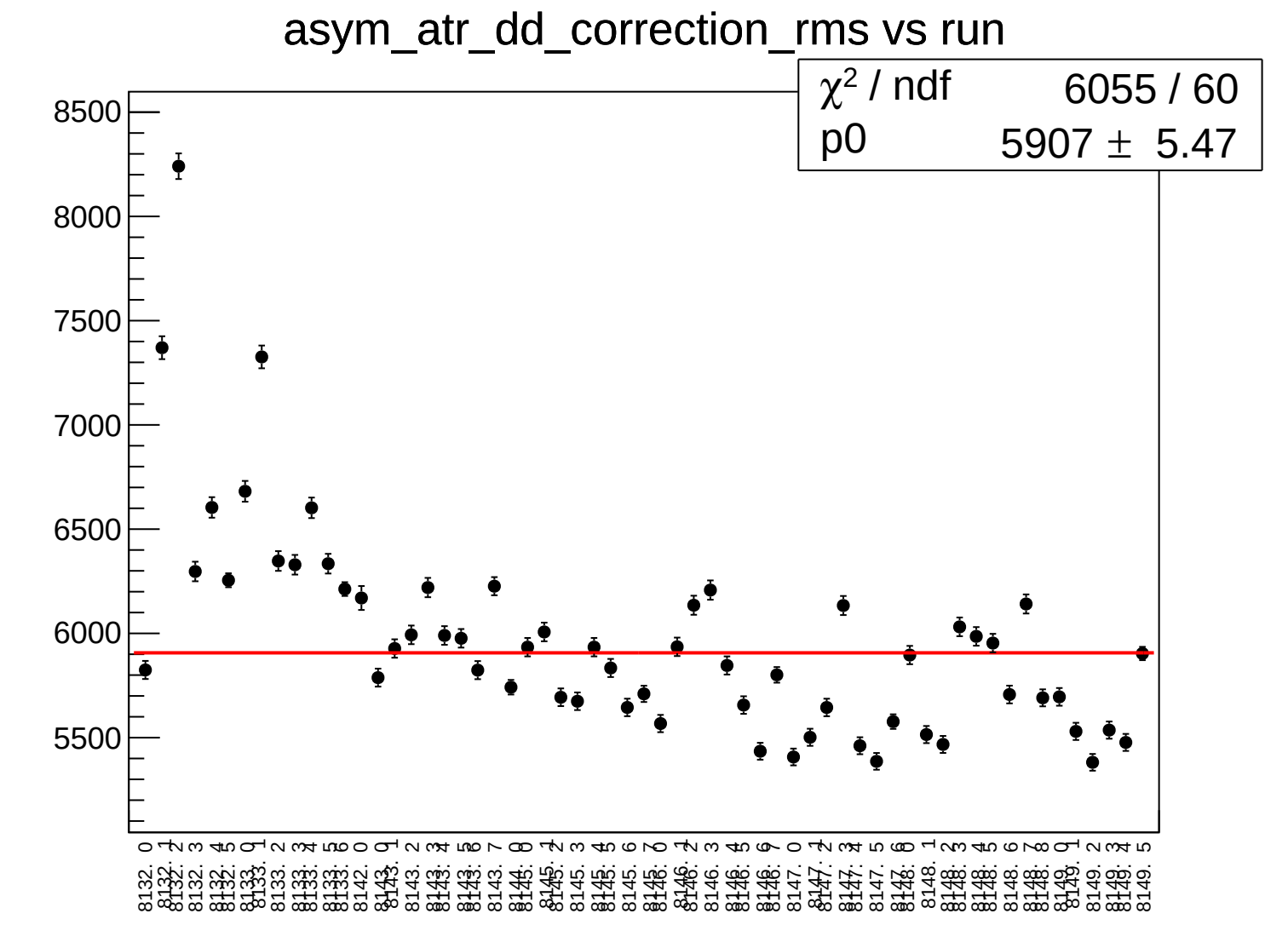

reg_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 42.85 / 60
p0 139.2 ± 2632
pull
Entries 61
Mean 118.6
Std Dev 67.93

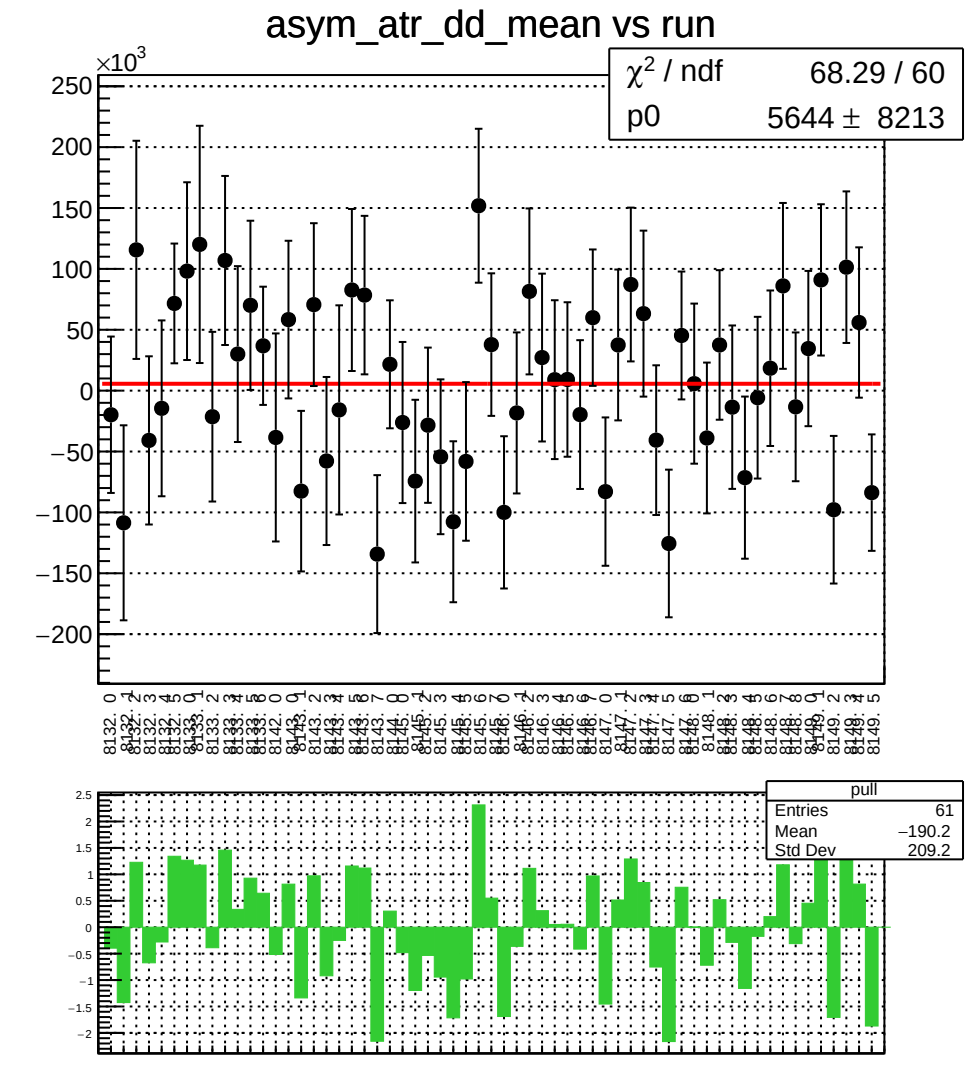

pull1D
Entries 61
Mean 0.01235
Std Dev 0.8381

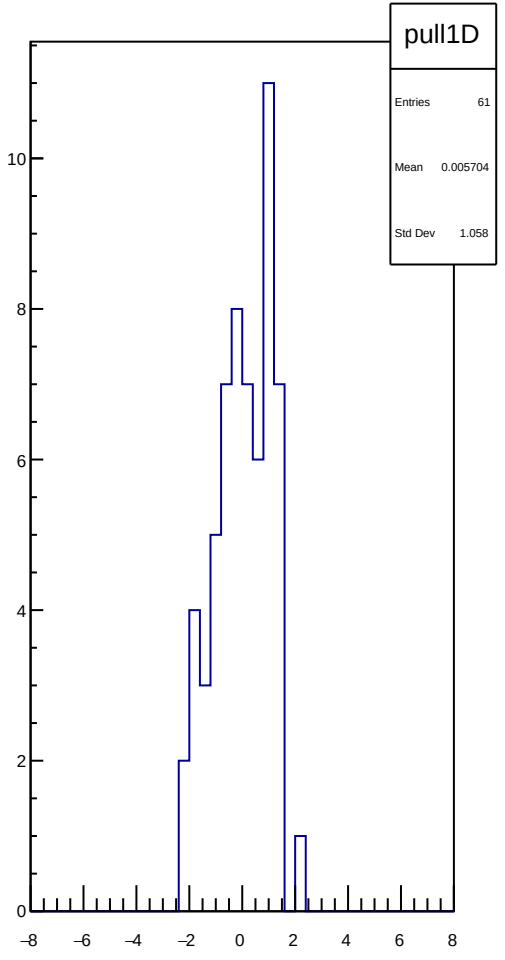

reg_asym_atr_dd_rms vs run
χ² / ndf 1.738e+04 / 60
p0 2000 ± 1.861
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

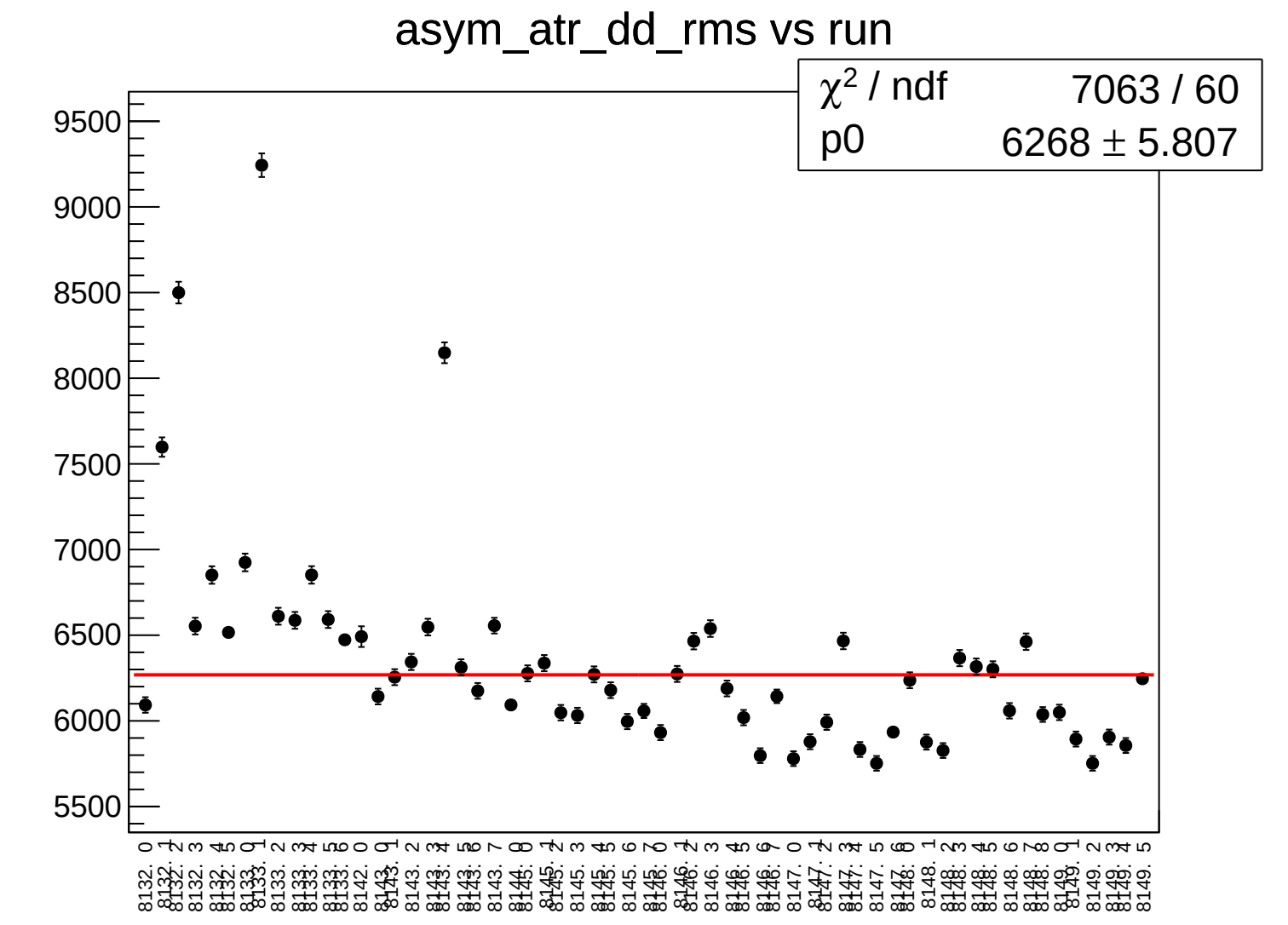

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 71.19 / 60
p0 −4873 ± 7736
pull
Entries 61
Mean −303
Std Dev 328.3

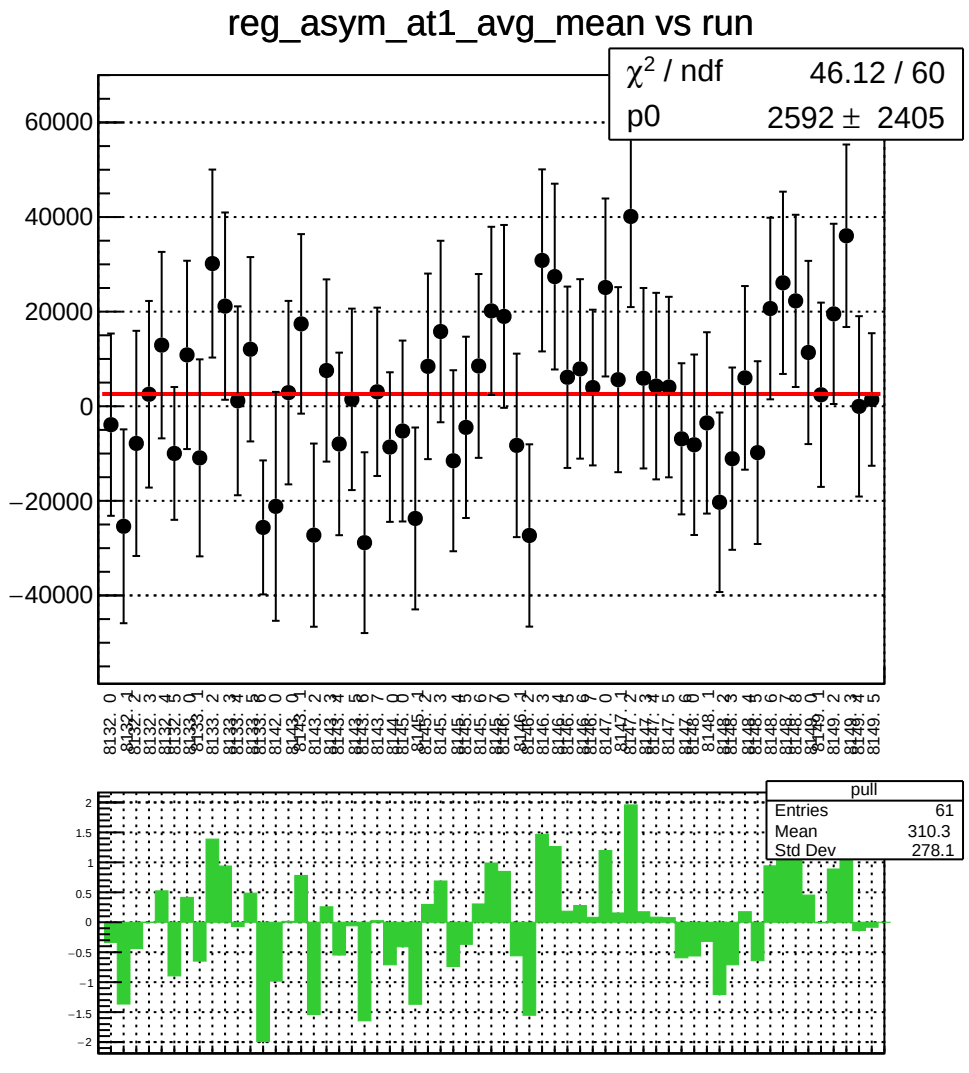

pull1D
Entries 61
Mean −0.004833
Std Dev 1.08

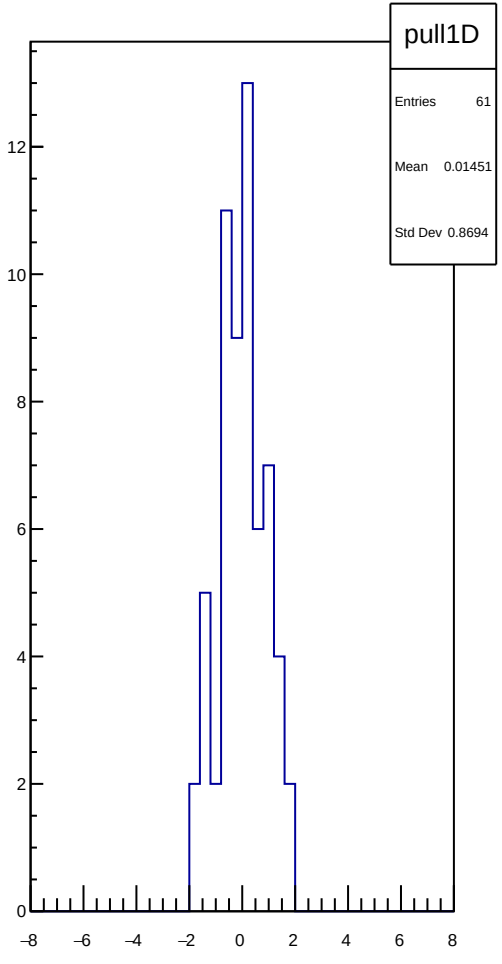

asym_atr_dd_correction_rms vs run
χ² / ndf 6055 / 60
p0 5907 ± 5.47
8500
8000
7500
7000
6500
6000
5500

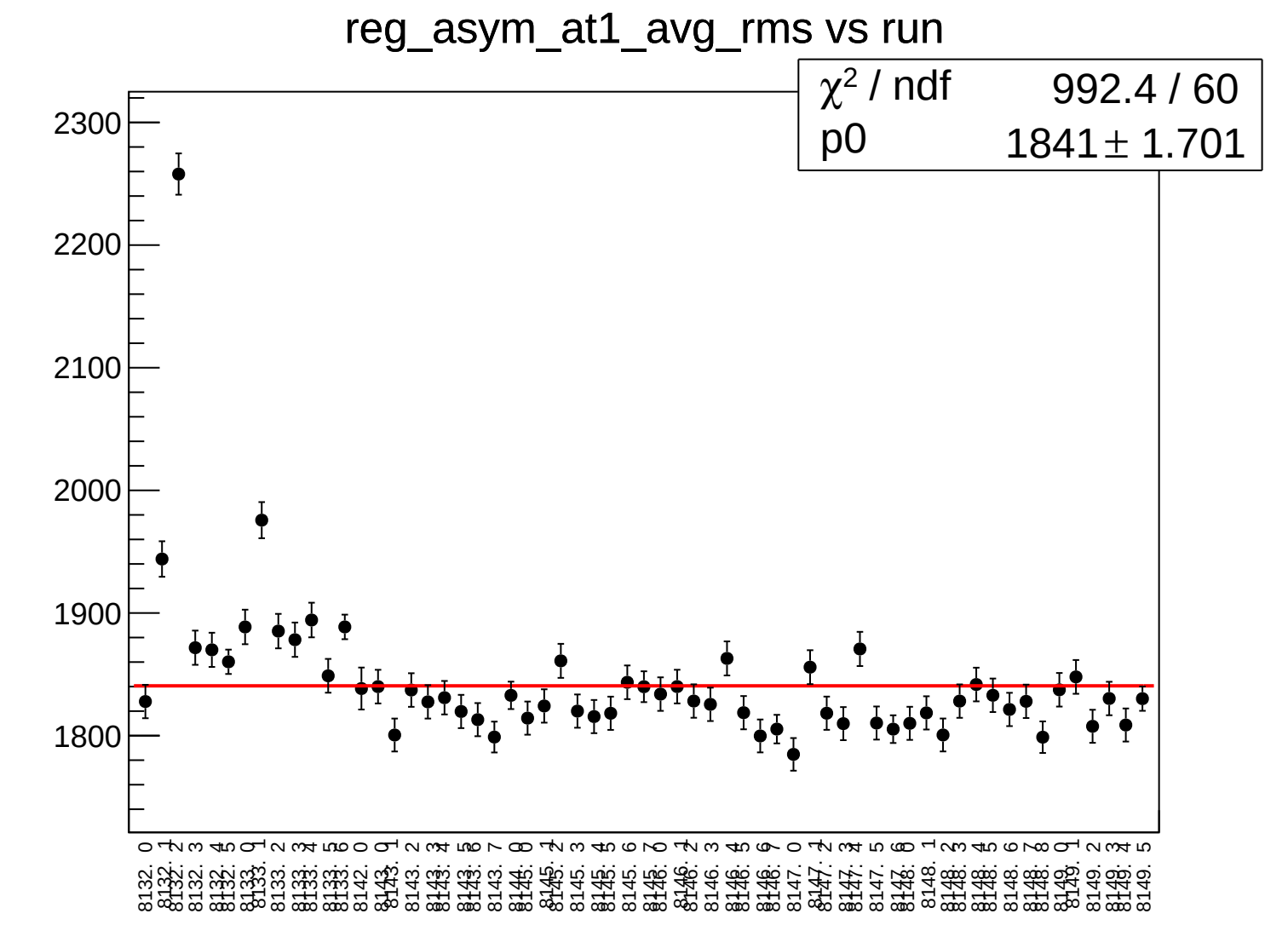

asym_atr_dd_mean vs run
χ² / ndf 68.29 / 60
p0 5644 ± 8213
pull
Entries 61
Mean −190.2
Std Dev 209.2

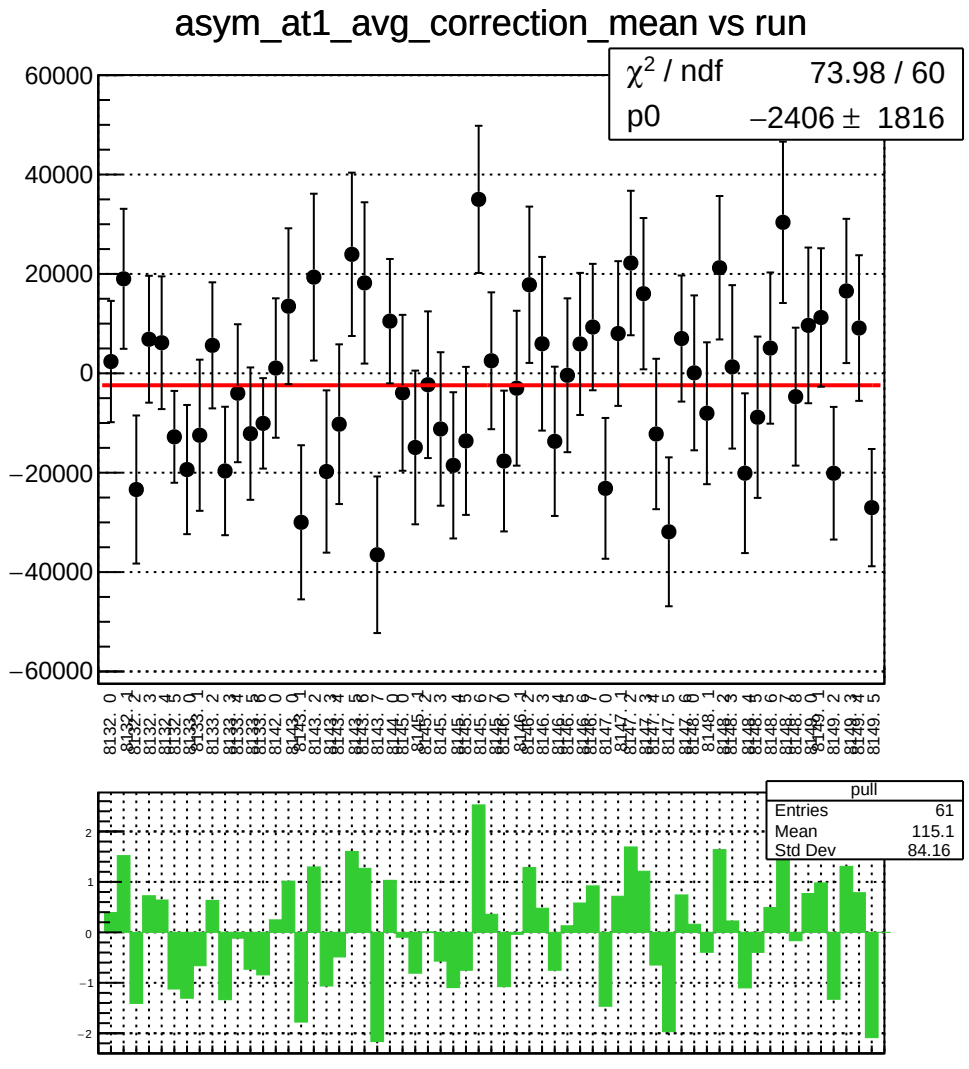

pull1D
Entries 61
Mean 0.005704
Std Dev 1.058

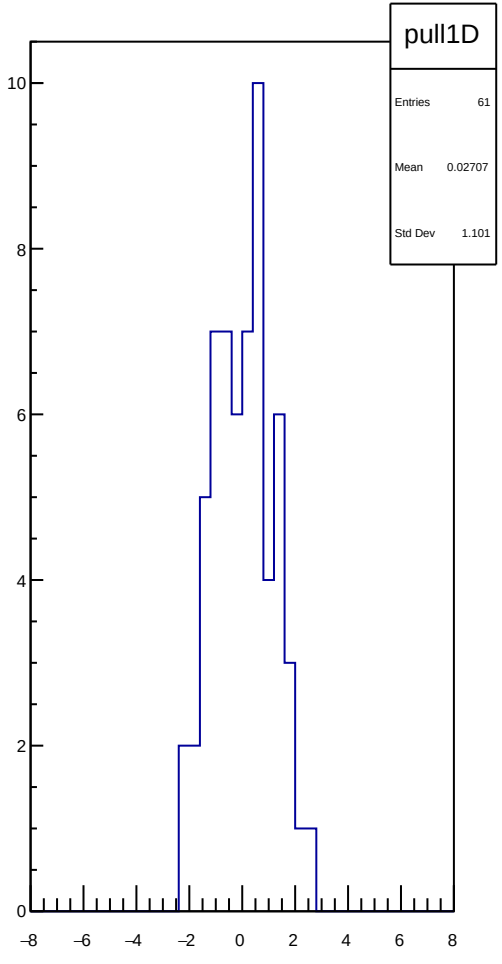

asym_atr_dd_rms vs run
χ^2 / ndf 7063 / 60
p0 6268 ± 5.807
9500
9000
8500
8000
7500
7000
6500
6000
5500

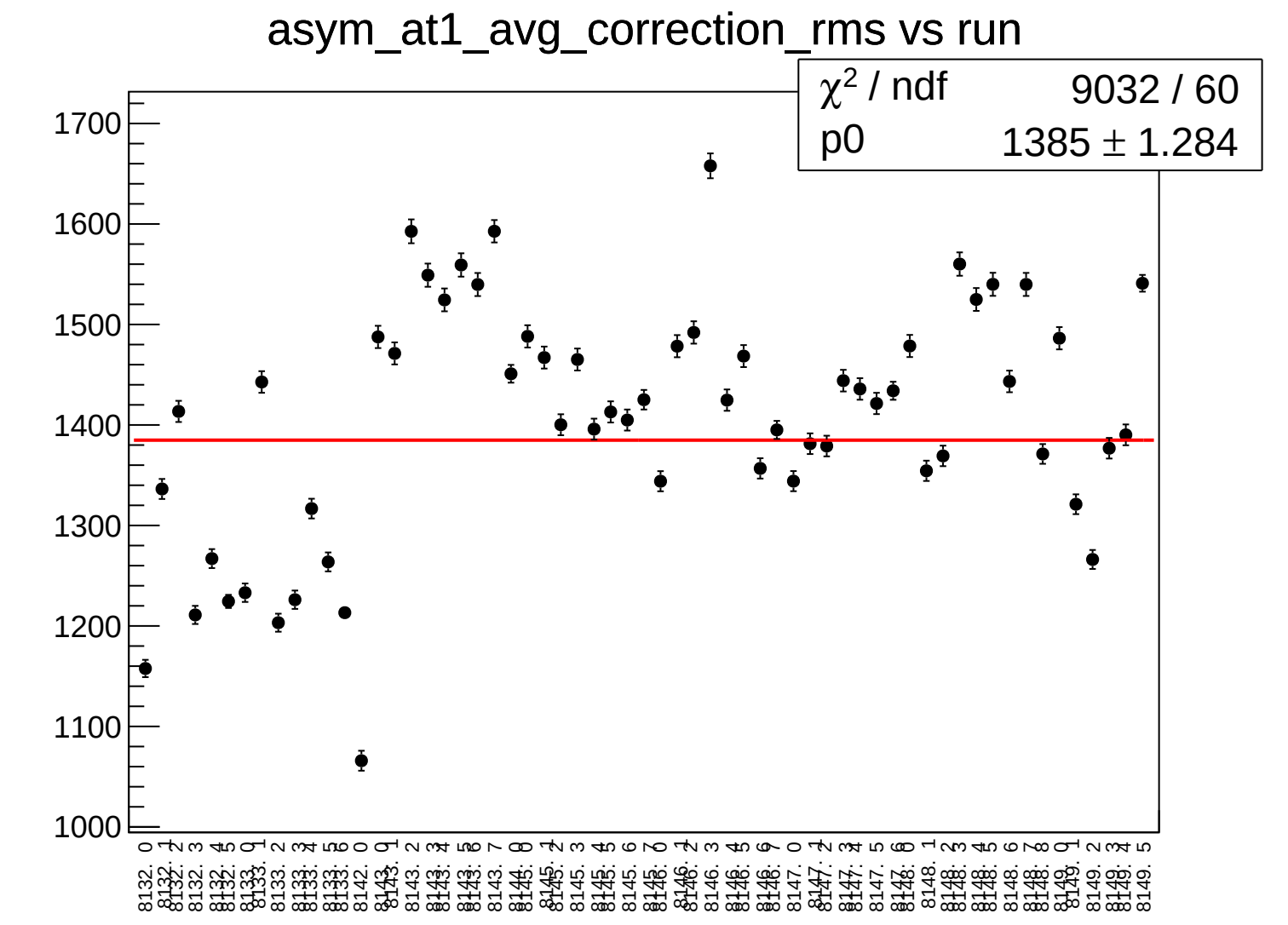

reg_asym_at1_avg_mean vs run
χ² / ndf 46.12 / 60
p0 2592 ± 2405
pull
Entries 61
Mean 310.3
Std Dev 278.1

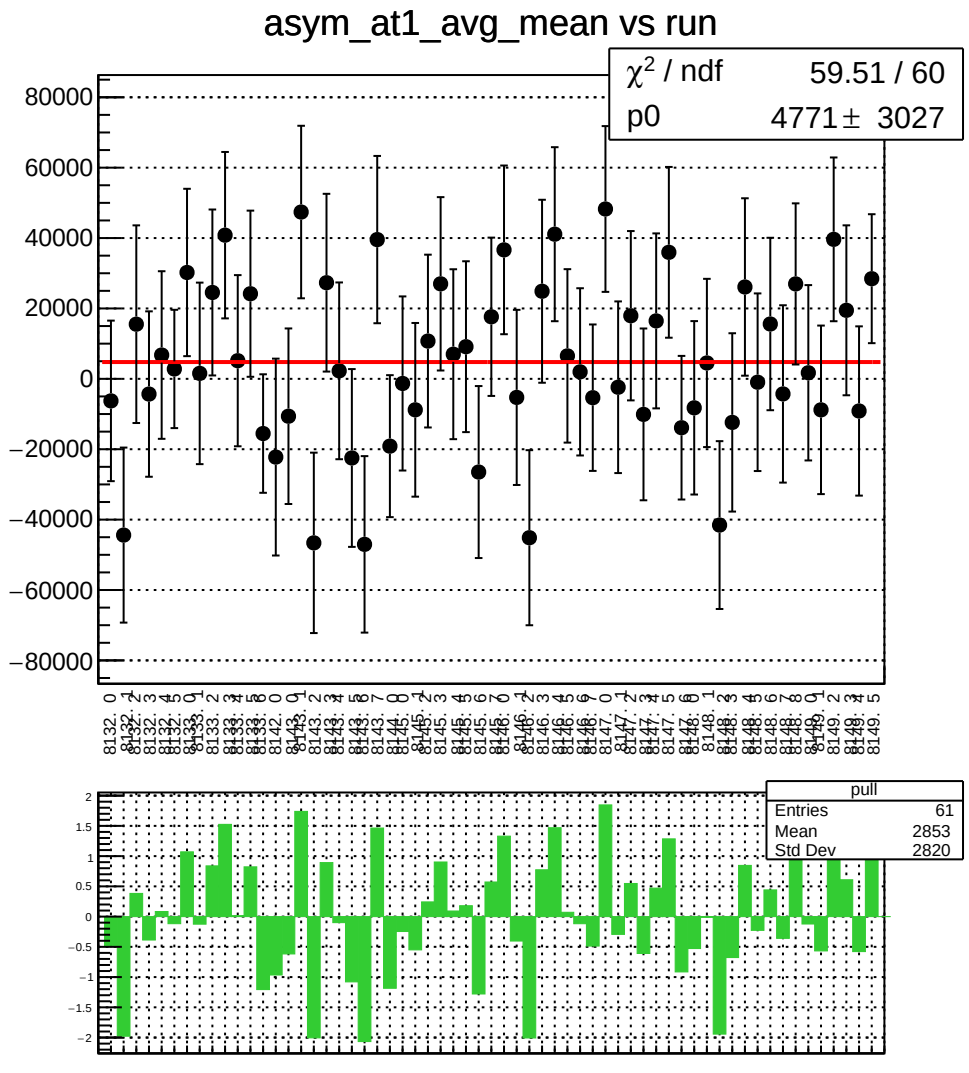

pull1D
Entries 61
Mean 0.01451
Std Dev 0.8694

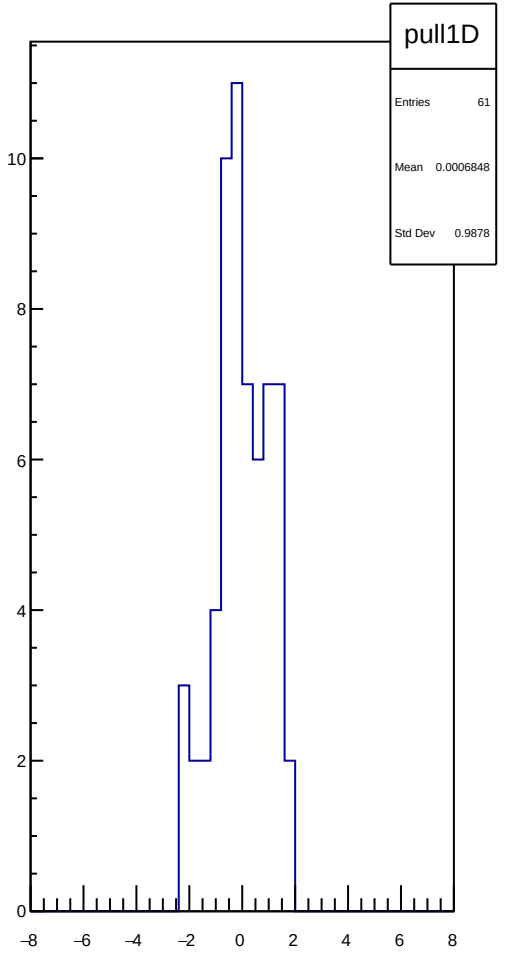

reg_asym_at1_avg_rms vs run
χ² / ndf 992.4 / 60
p0 1841 ± 1.701
2300
2200
2100
2000
1900
1800
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 0
8133. 1
8133. 2
8133. 3
8133. 4
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

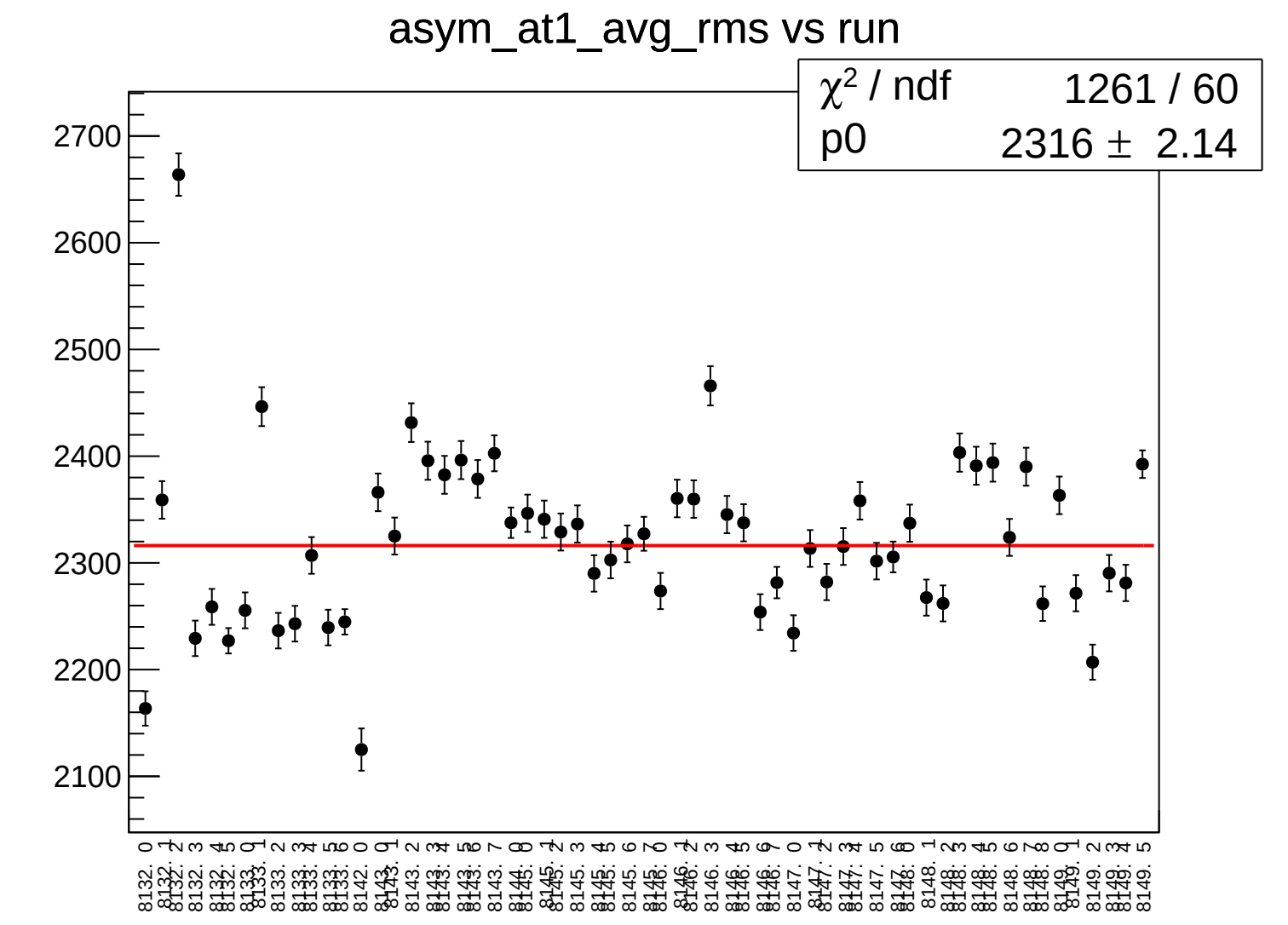

asym_at1_avg_correction_mean vs run
χ² / ndf 73.98 / 60
p0 −2406 ± 1816
pull
Entries 61
Mean 115.1
Std Dev 84.16

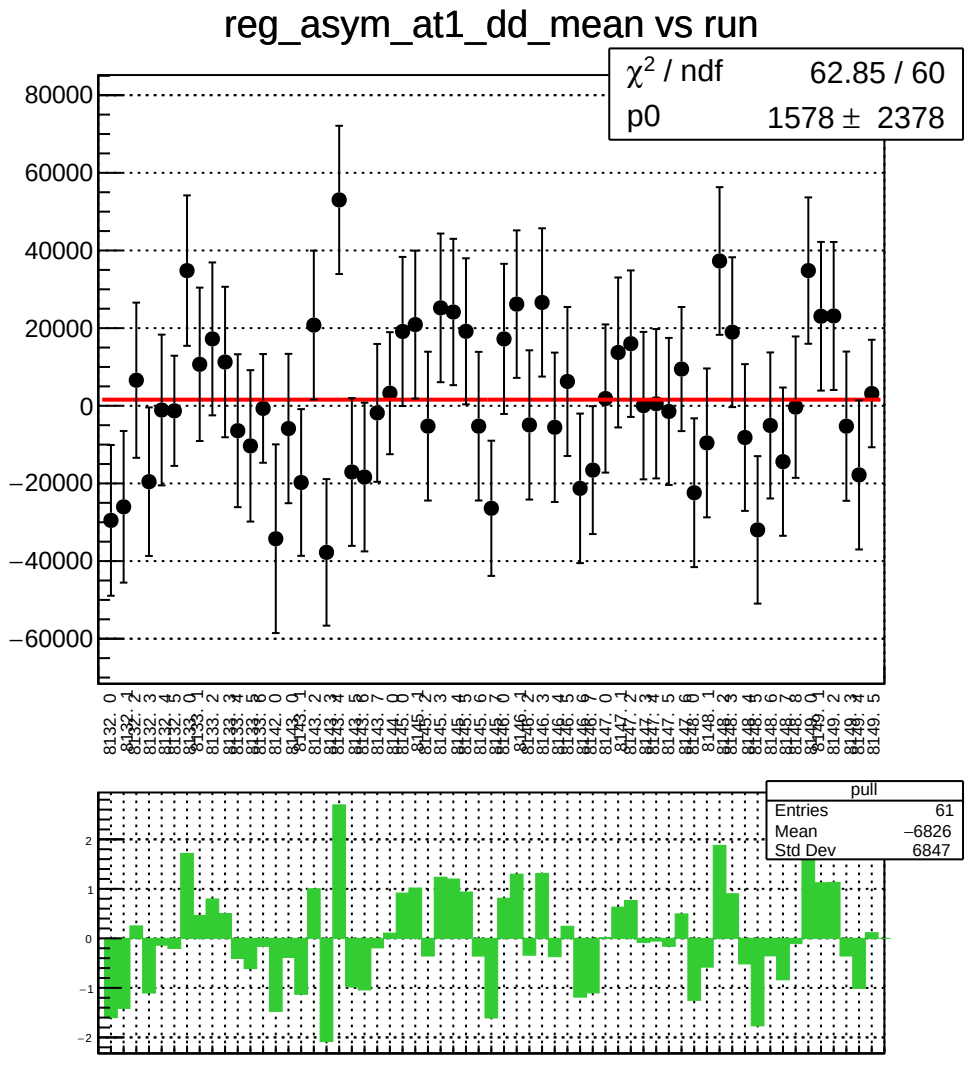

pull1D
Entries 61
Mean 0.02707
Std Dev 1.101

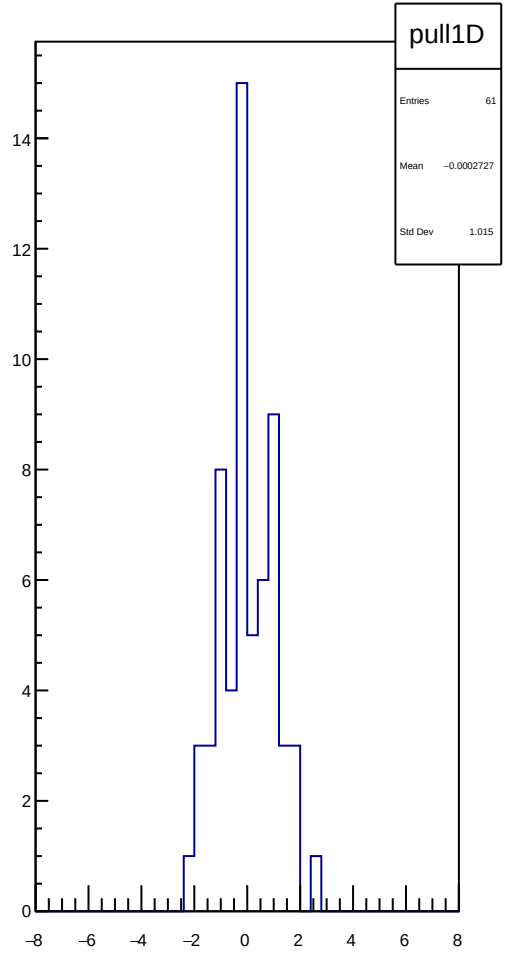

asym_at1_avg_correction_rms vs run
χ^2 / ndf 9032 / 60
p0 1385 ± 1.284
1700
1600
1500
1400
1300
1200
1100
1000

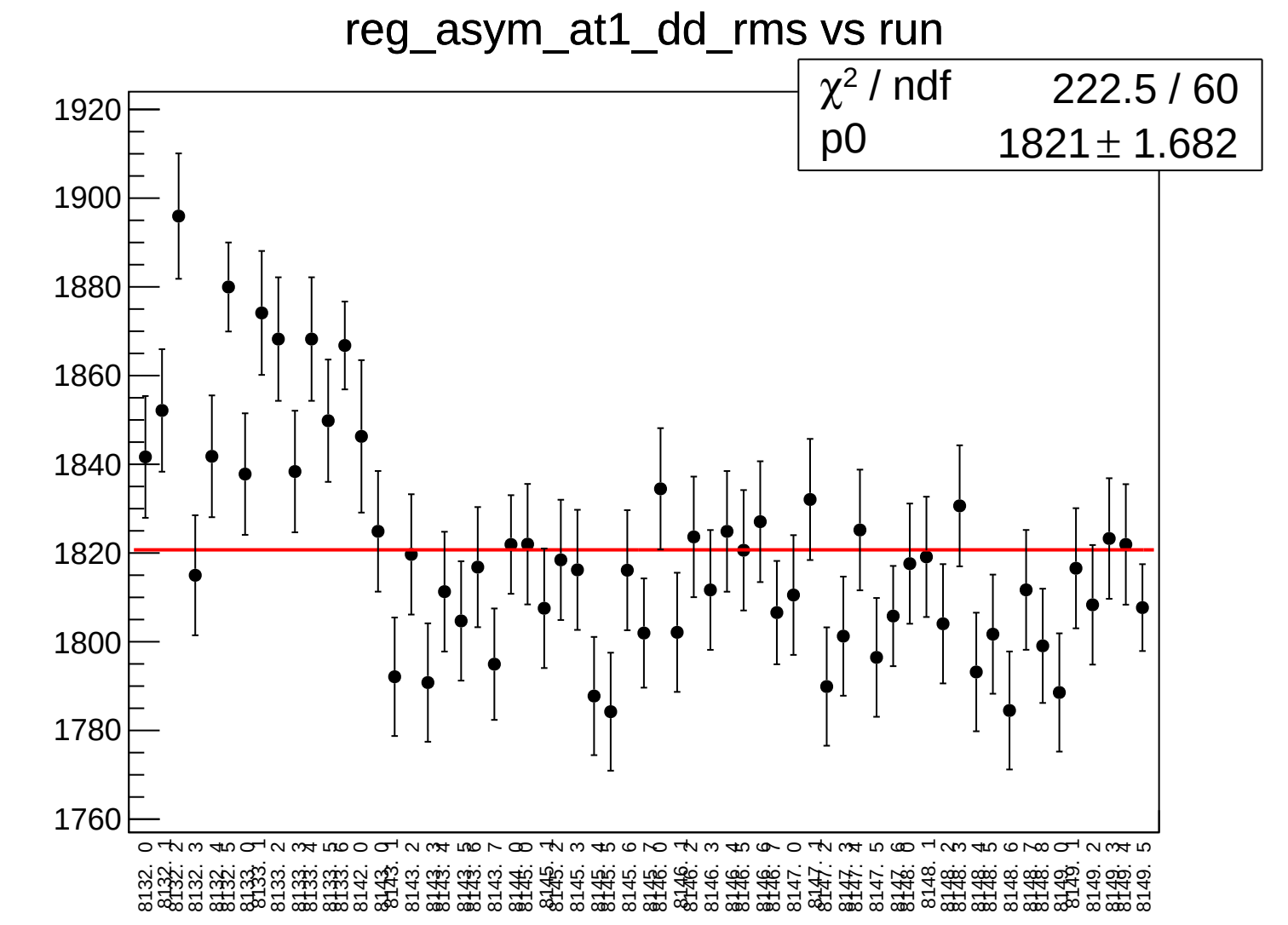

asym_at1_avg_mean vs run
χ² / ndf 59.51 / 60
p0 4771 ± 3027
pull
Entries 61
Mean 2853
Std Dev 2820

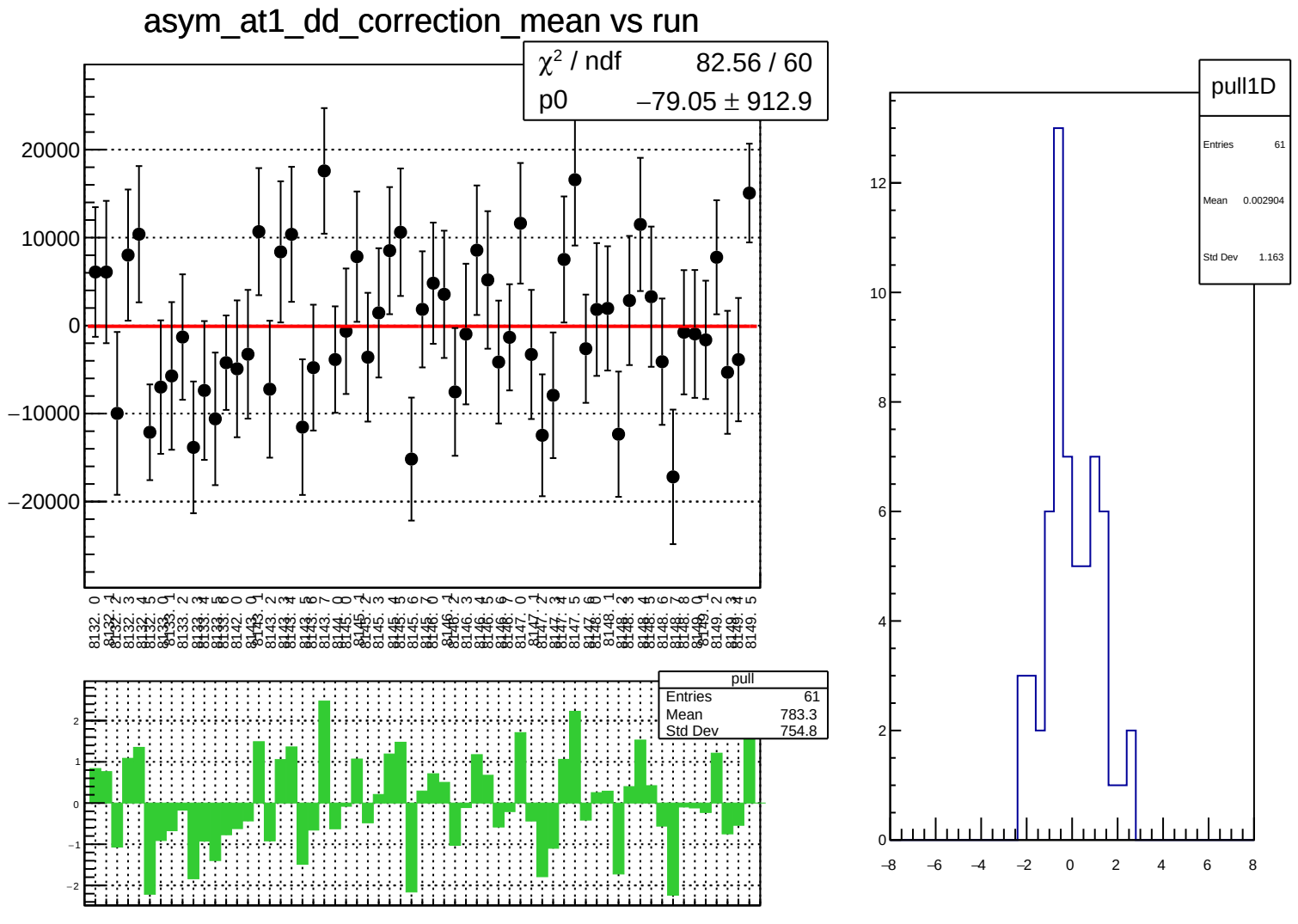

pull1D
Entries 61
Mean 0.0006848
Std Dev 0.9878

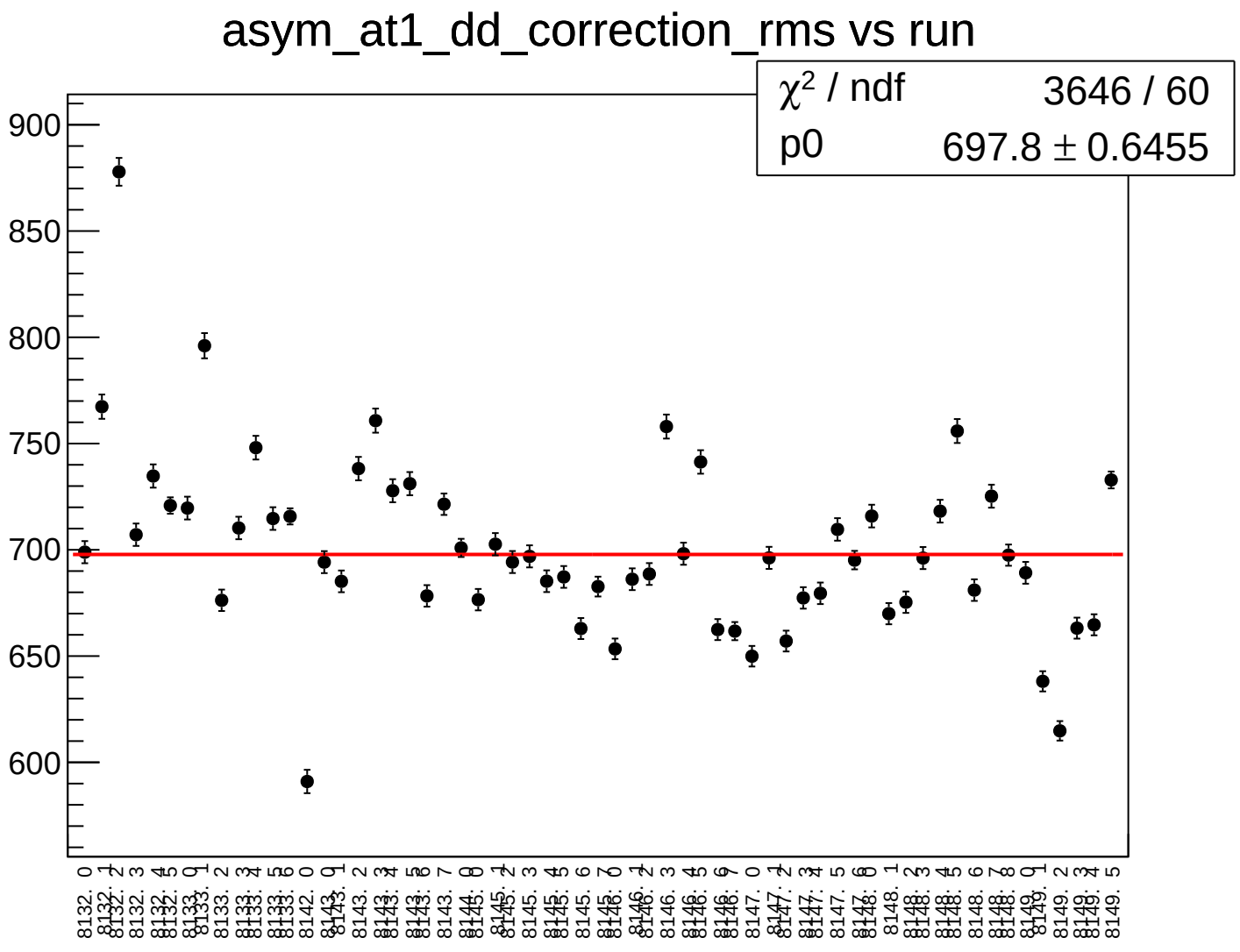

asym_at1_avg_rms vs run
χ² / ndf 1261 / 60
p0 2316 ± 2.14
2700
2600
2500
2400
2300
2200
2100

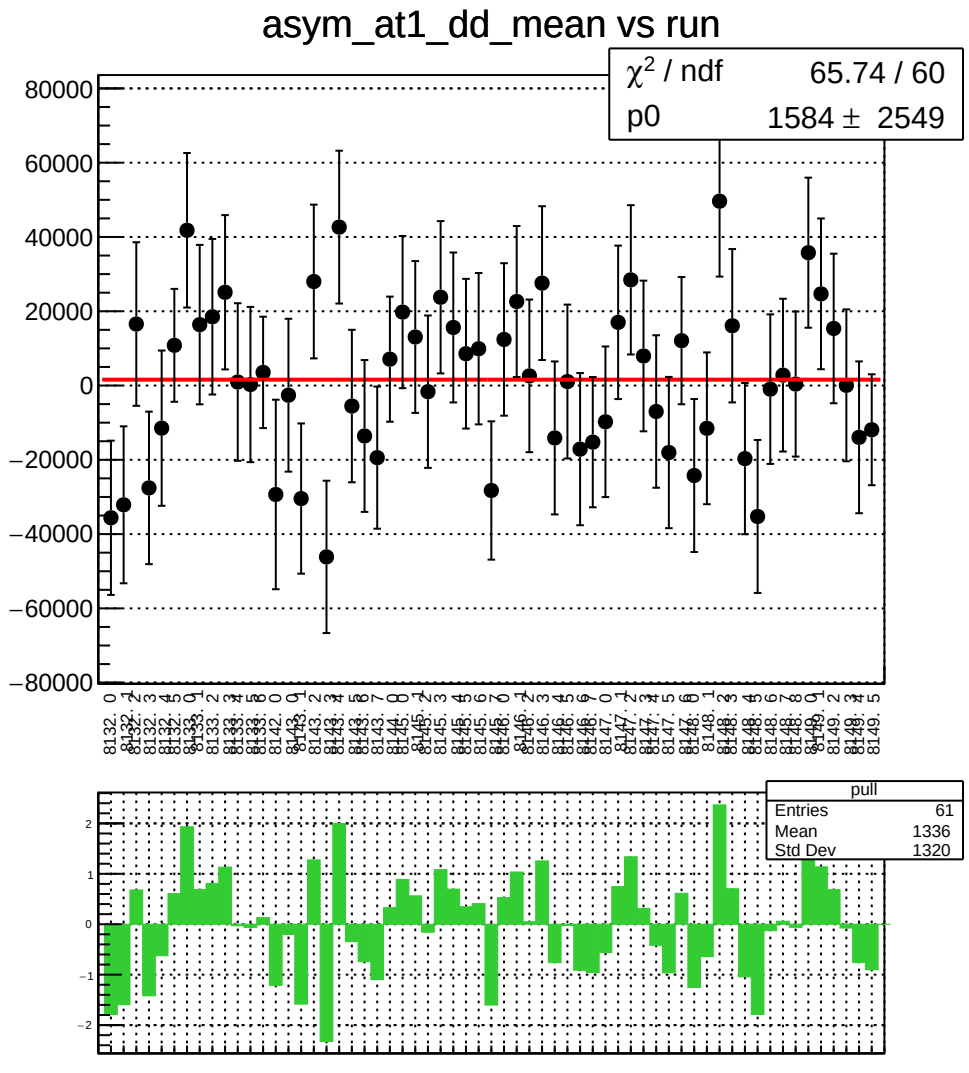

reg_asym_at1_dd_mean vs run
χ² / ndf 62.85 / 60
p0 1578 ± 2378
pull
Entries 61
Mean −6826
Std Dev 6847

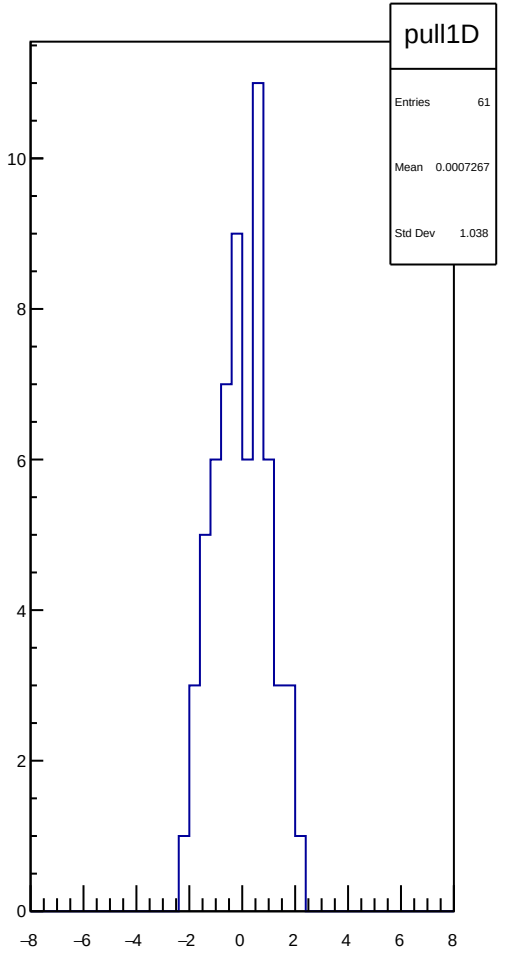

pull1D
Entries 61
Mean −0.0002727
Std Dev 1.015

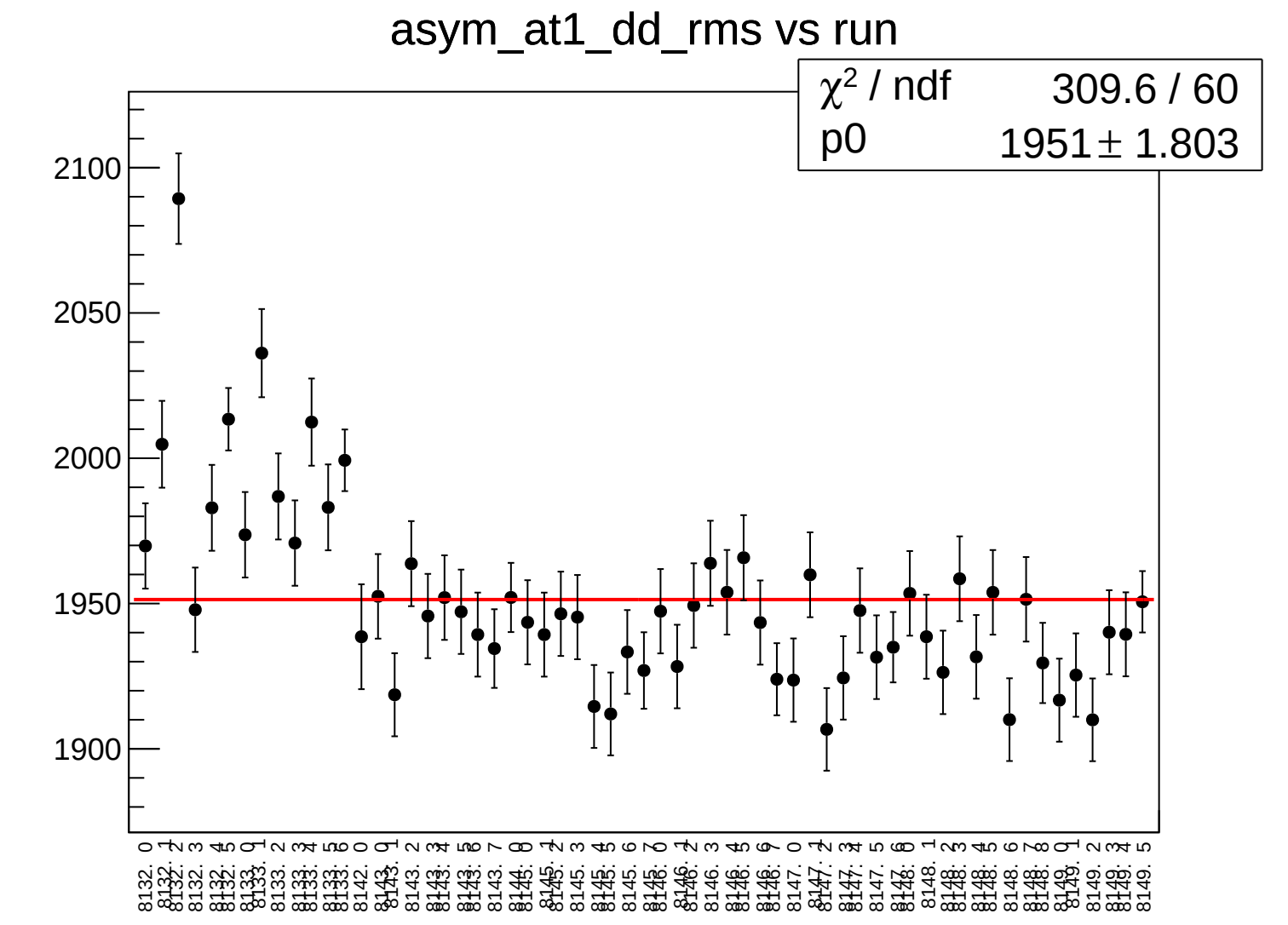

reg_asym_at1_dd_rms vs run
χ² / ndf 222.5 / 60
p0 1821 ± 1.682
1920
1900
1880
1860
1840
1820
1800
1780
1760

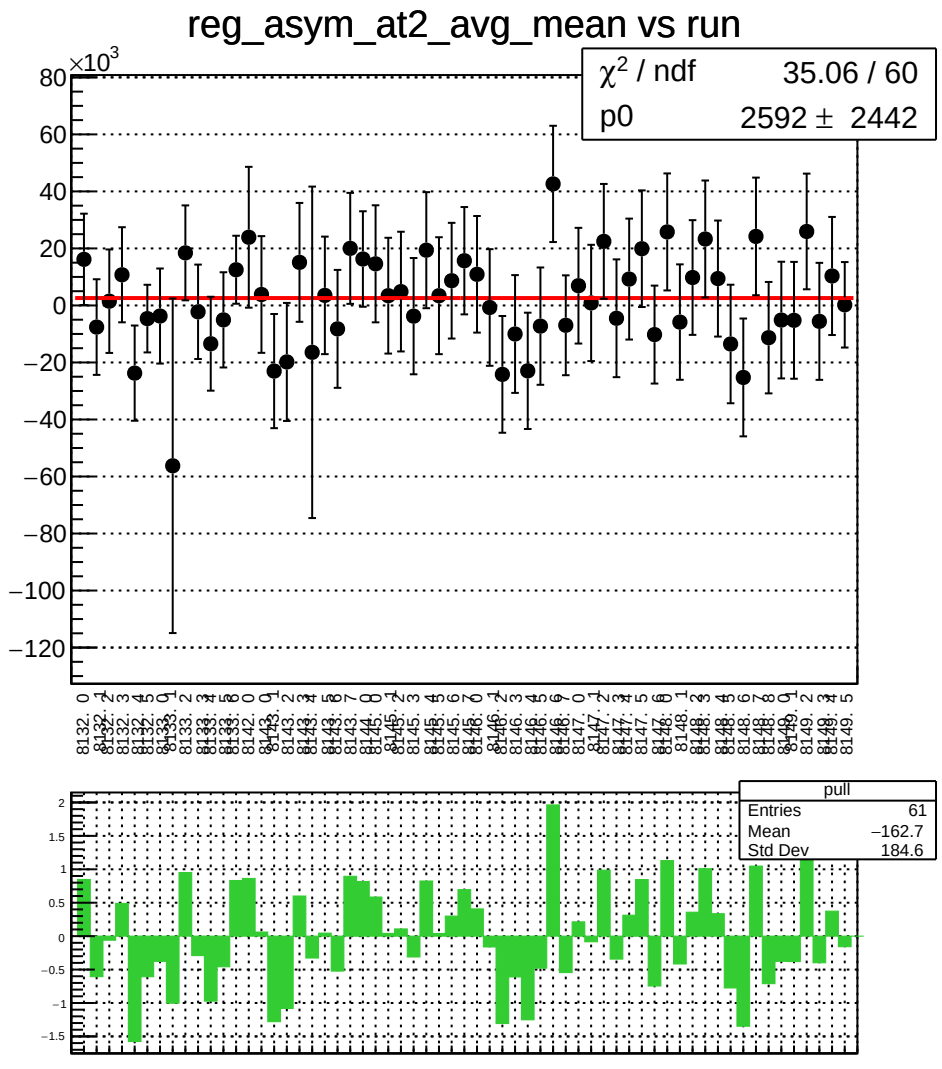

asym_at1_dd_correction_mean vs run
χ² / ndf 82.56 / 60
p0 −79.05 ± 912.9
20000
10000
0
−10000
−20000
pull
Entries 61
Mean 783.3
Std Dev 754.8
pull1D
Entries 61
Mean 0.002904
Std Dev 1.163
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

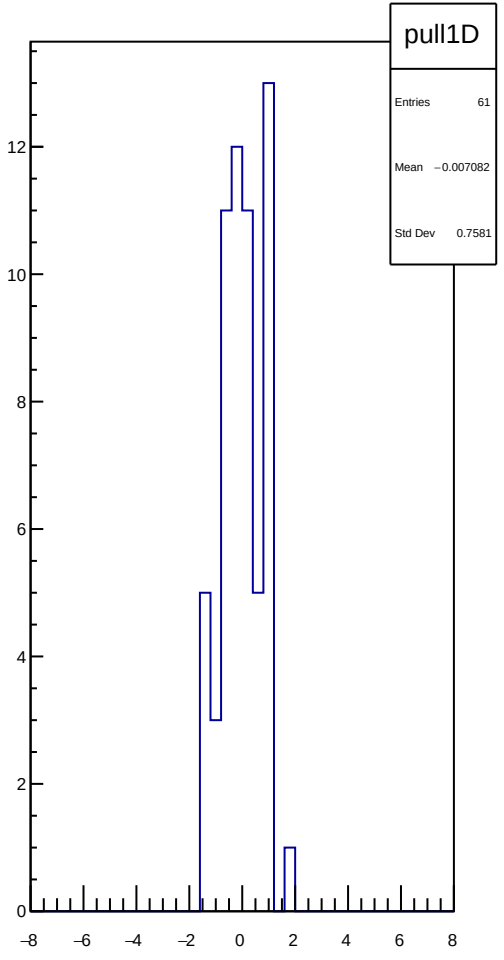

asym_at1_dd_correction_rms vs run
χ² / ndf 3646 / 60
p0 697.8 ± 0.6455
900
850
800
750
700
650
600

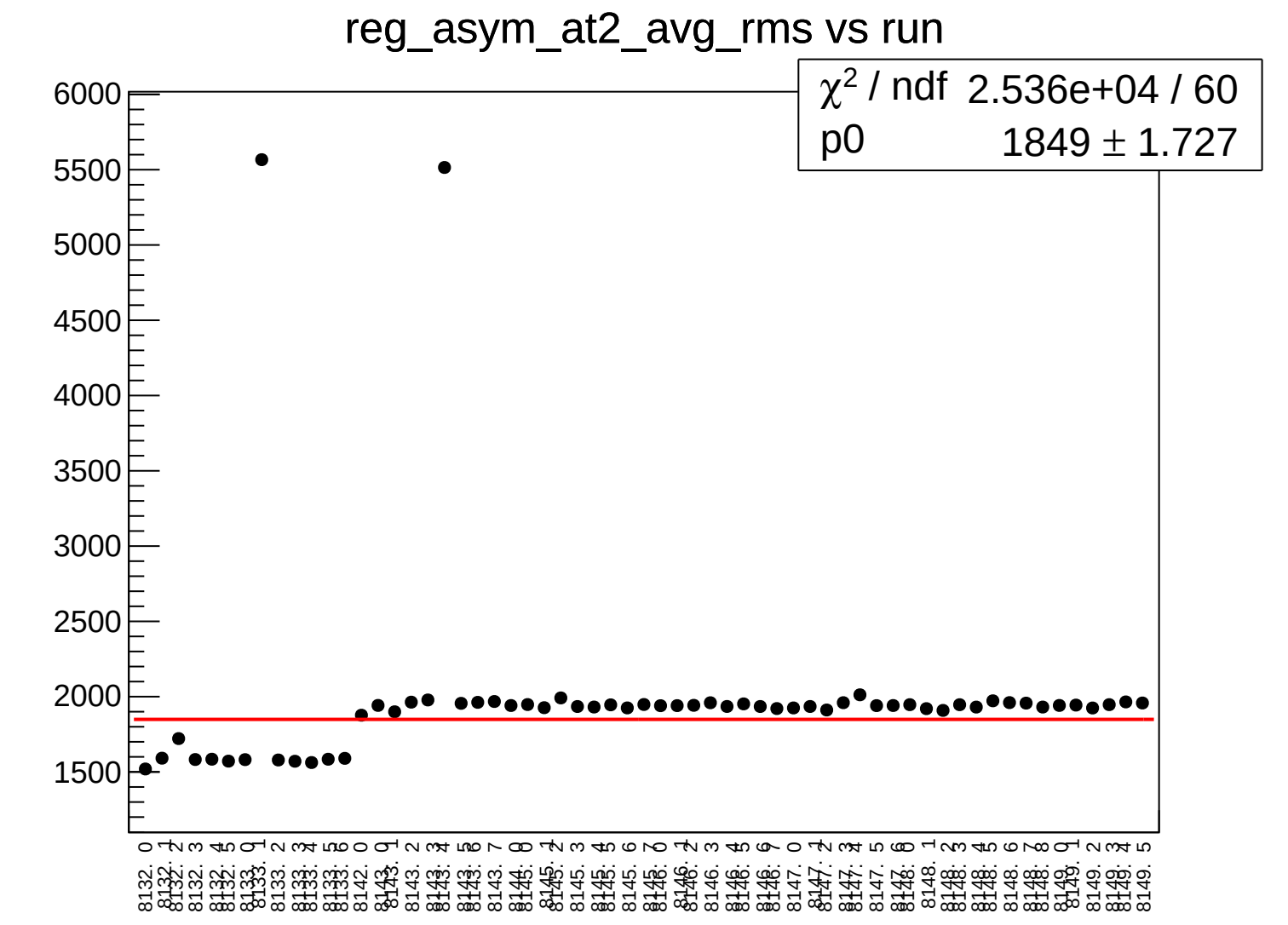

asym_at1_dd_mean vs run
χ² / ndf 65.74 / 60
p0 1584 ± 2549
pull
Entries 61
Mean 1336
Std Dev 1320

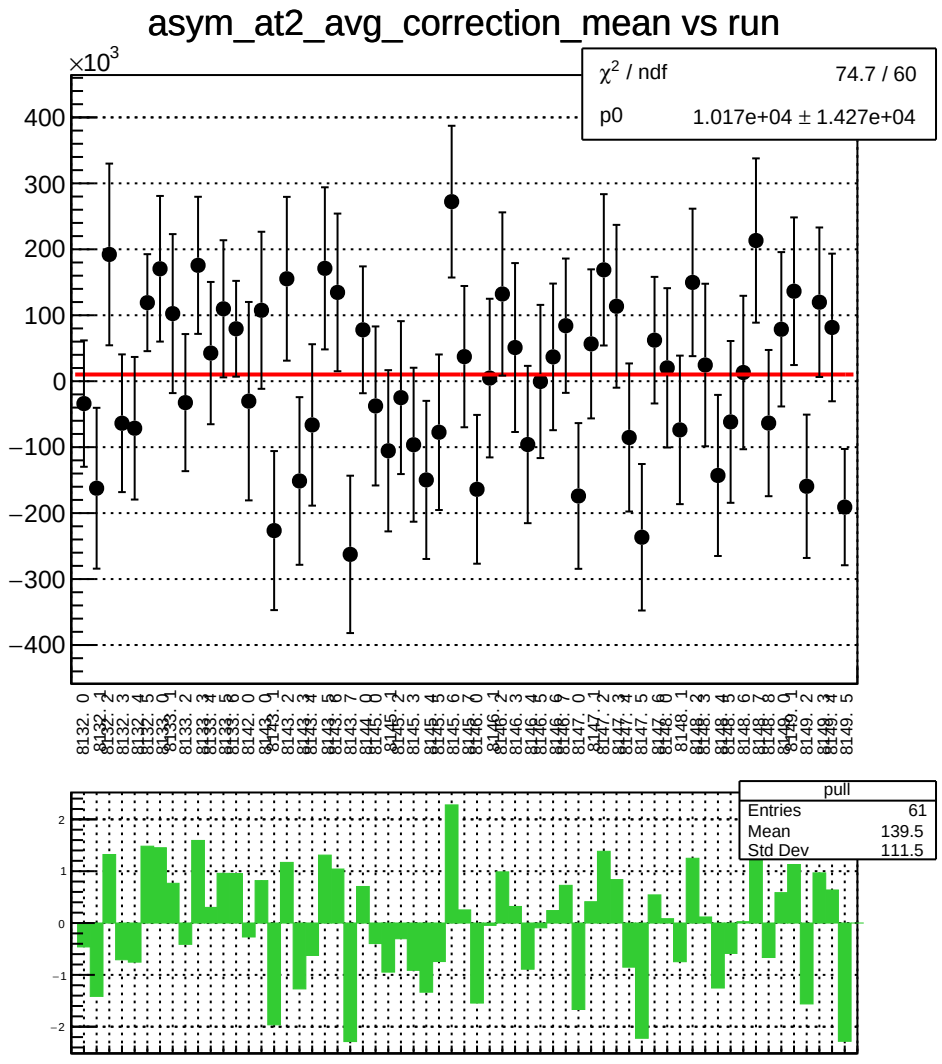

pull1D
Entries 61
Mean 0.0007267
Std Dev 1.038

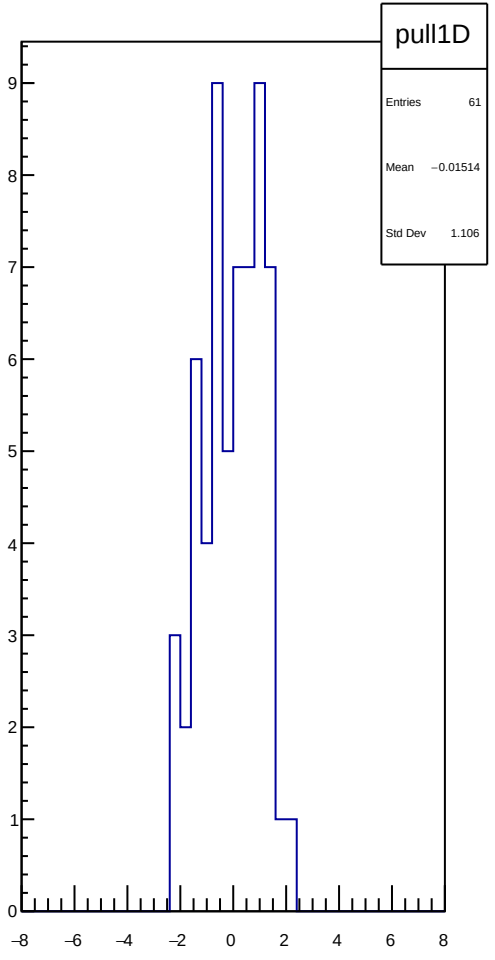

asym_at1_dd_rms vs run
χ² / ndf 309.6 / 60
p0 1951 ± 1.803
2100
2050
2000
1950
1900

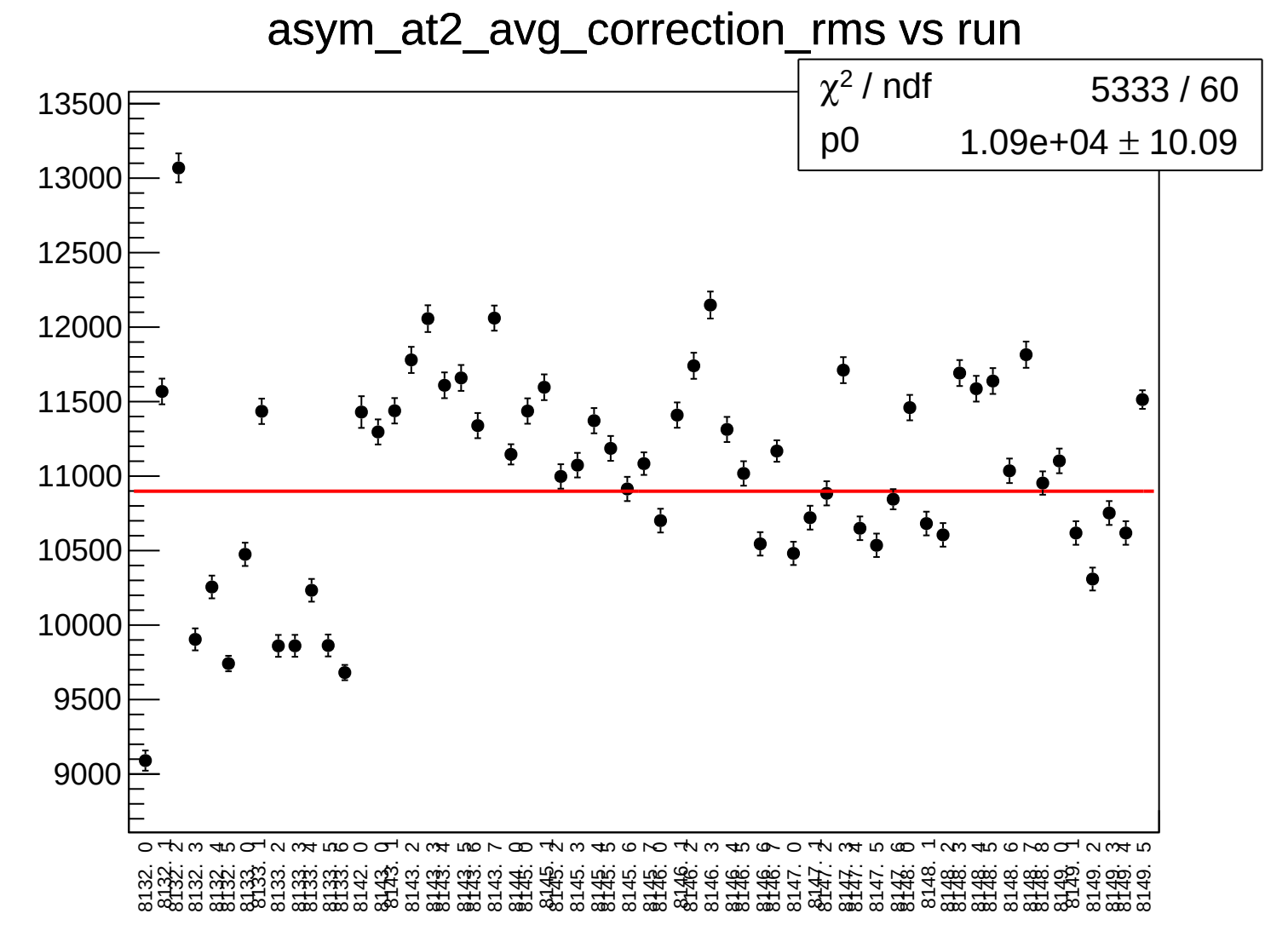

reg_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 35.06 / 60
p0 2592 ± 2442
pull
Entries 61
Mean −162.7
Std Dev 184.6

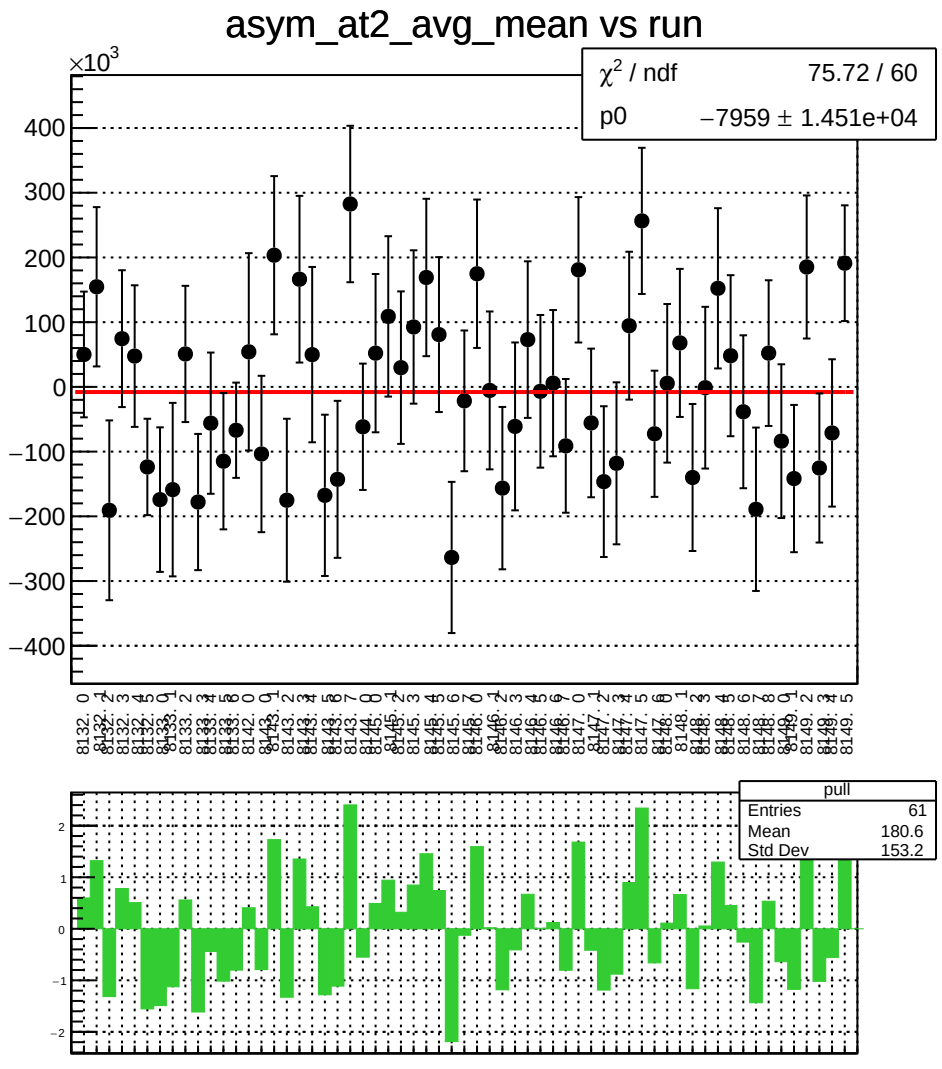

pull1D
Entries 61
Mean −0.007082
Std Dev 0.7581

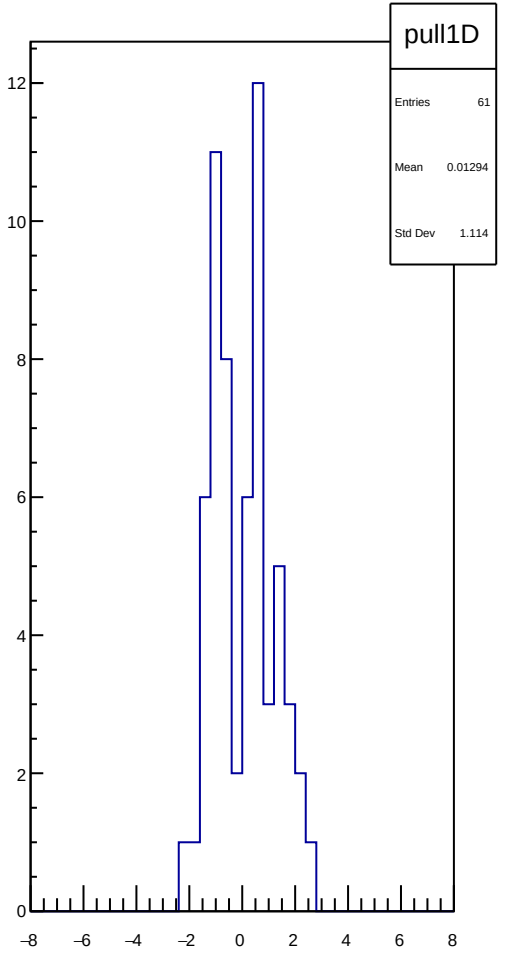

reg_asym_at2_avg_rms vs run
χ² / ndf 2.536e+04 / 60
p0 1849 ± 1.727
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

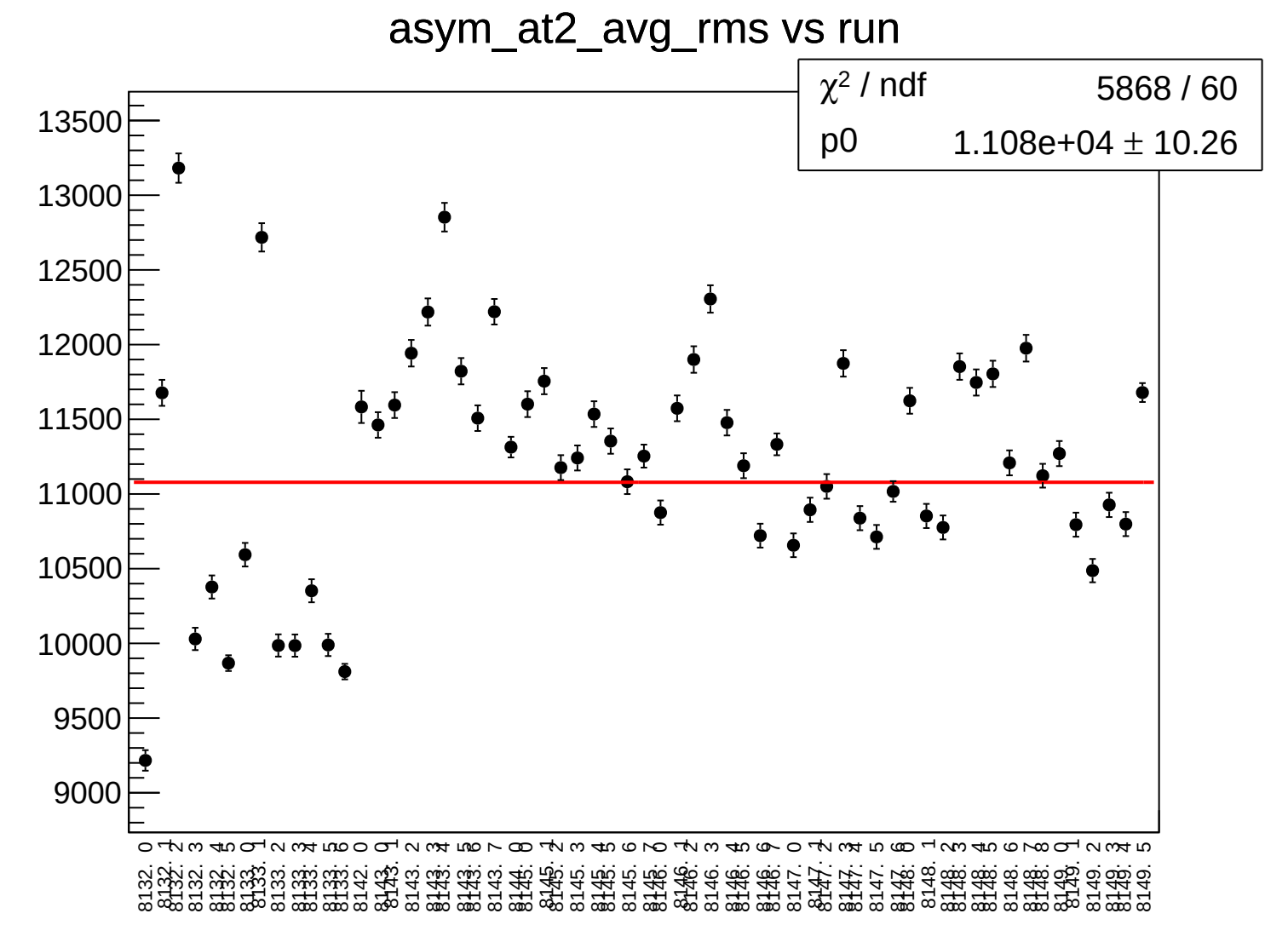

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 74.7 / 60
p0 1.017e+04 ± 1.427e+04
pull
Entries 61
Mean 139.5
Std Dev 111.5

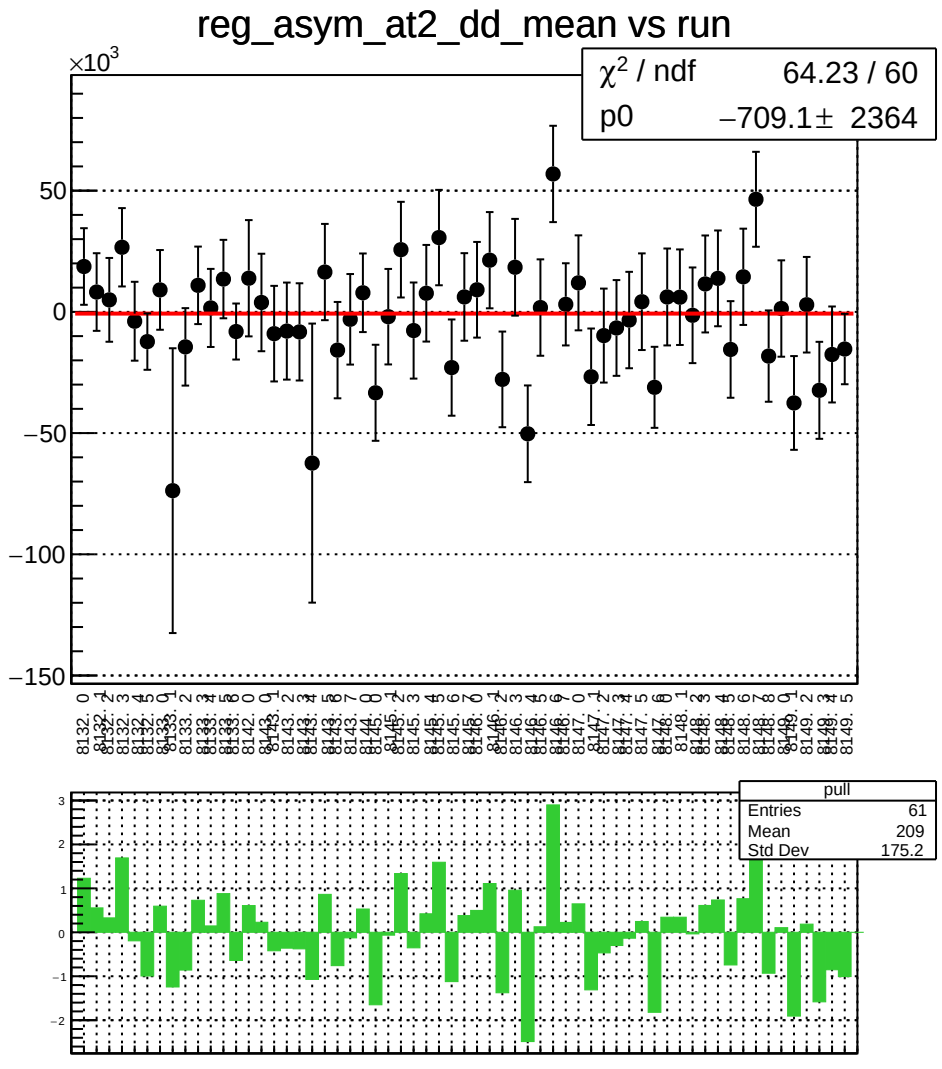

pull1D
Entries 61
Mean −0.01514
Std Dev 1.106

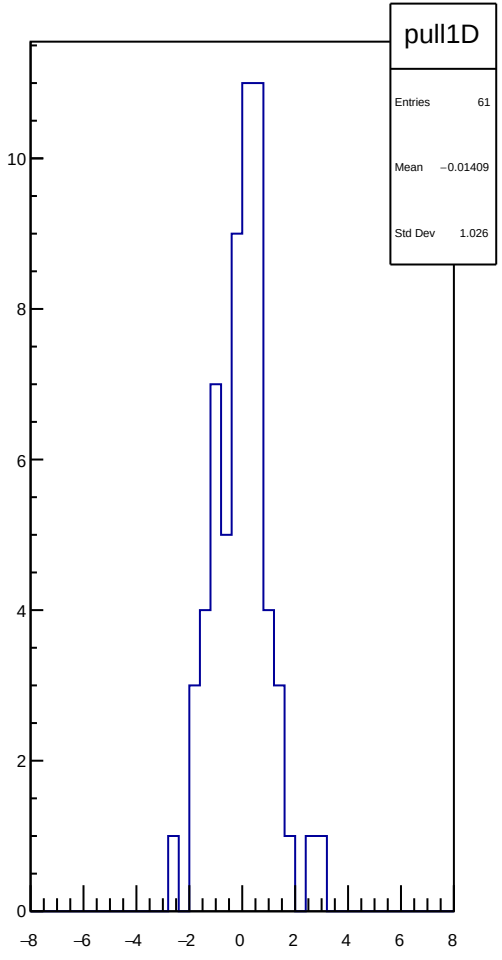

asym_at2_avg_correction_rms vs run
χ^2 / ndf 5333 / 60
p0 1.09e+04 ± 10.09
13500
13000
12500
12000
11500
11000
10500
10000
9500
9000

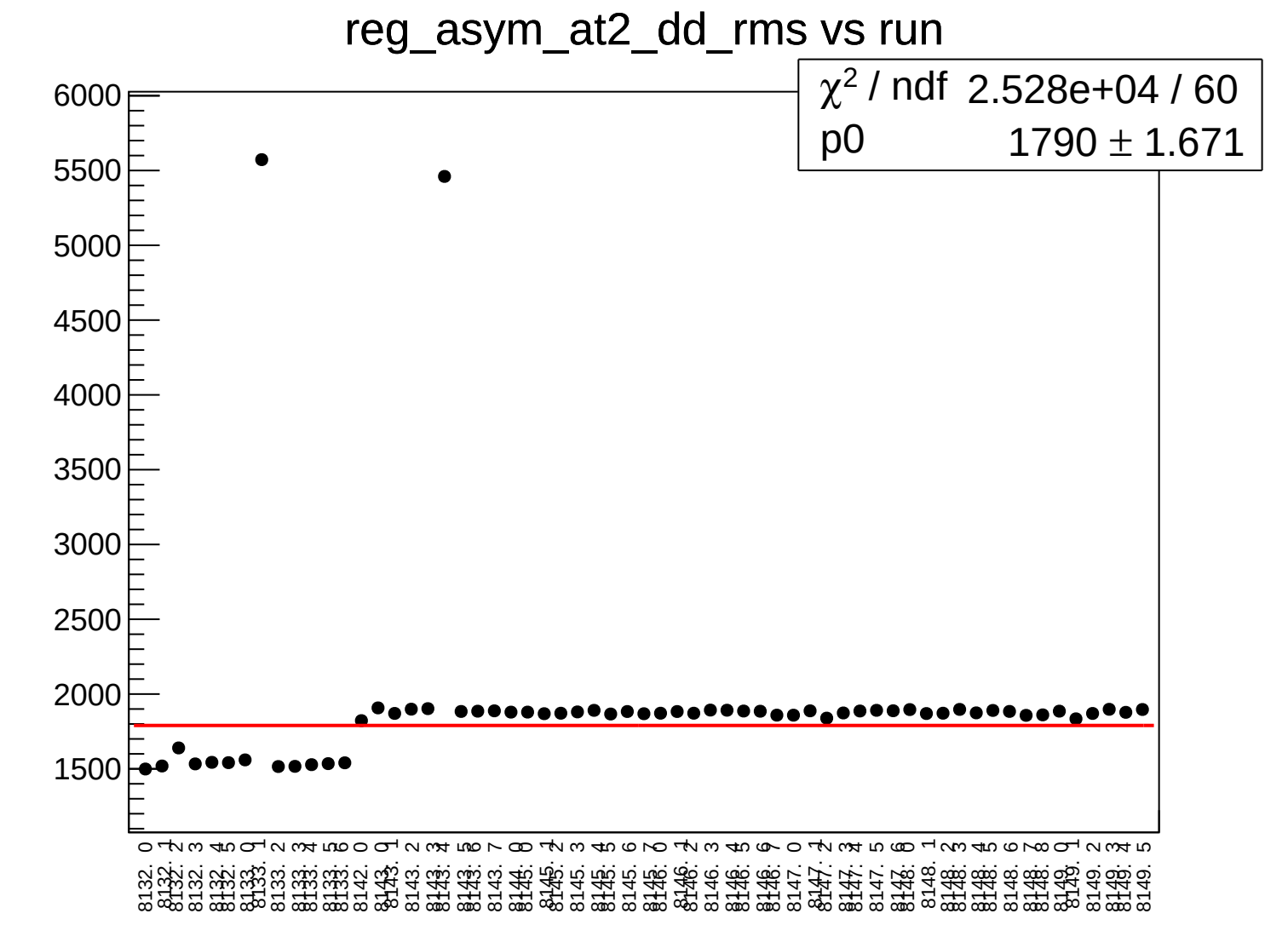

asym_at2_avg_mean vs run
×10^3
χ² / ndf 75.72 / 60
p0 −7959 ± 1.451e+04
pull
Entries 61
Mean 180.6
Std Dev 153.2

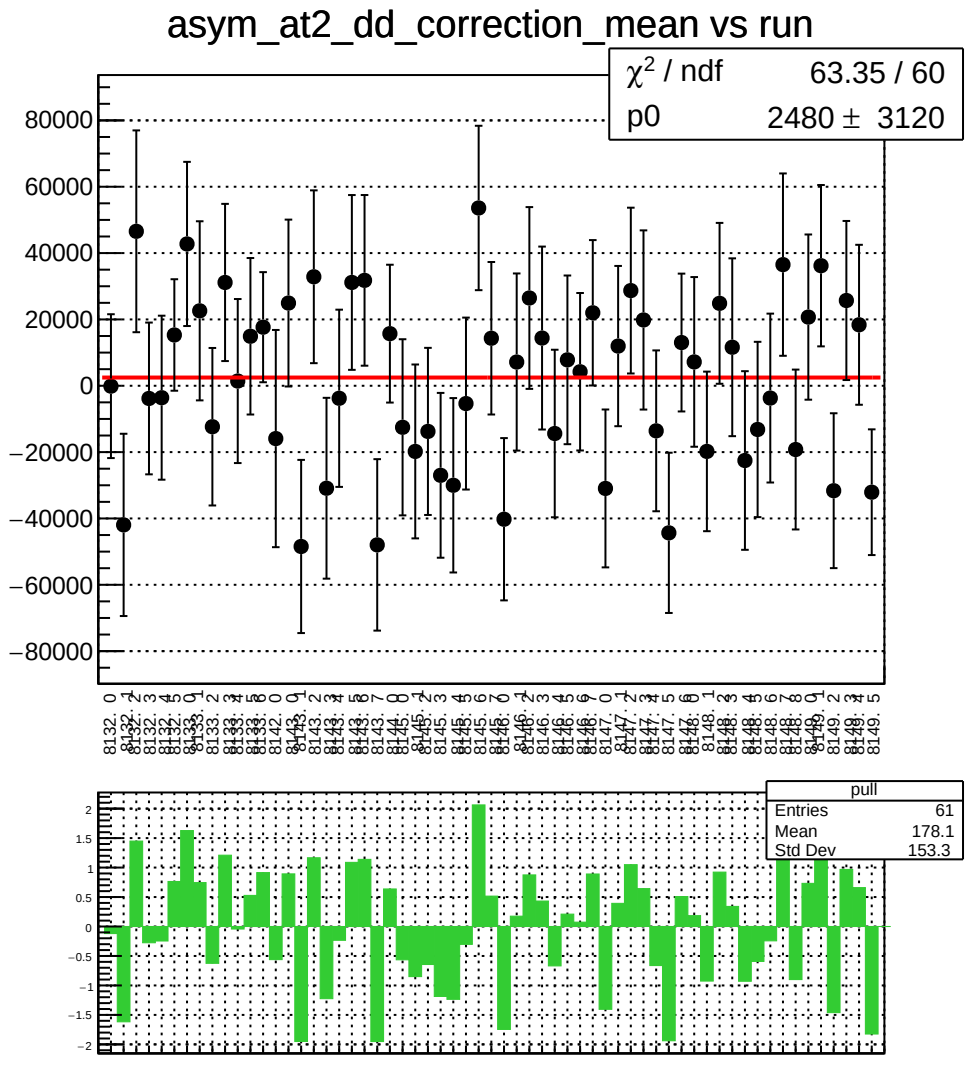

pull1D
Entries 61
Mean 0.01294
Std Dev 1.114

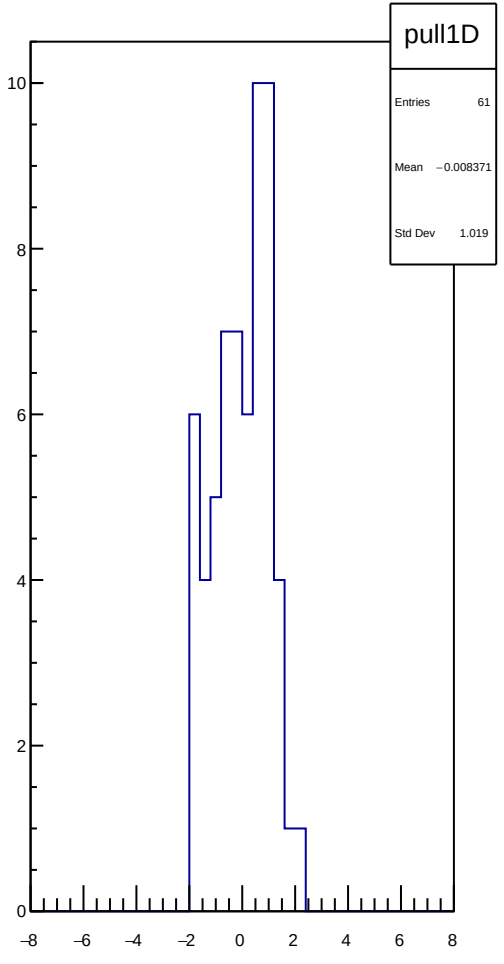

asym_at2_avg_rms vs run
χ² / ndf 5868 / 60
p0 1.108e+04 ± 10.26
13500
13000
12500
12000
11500
11000
10500
10000
9500
9000

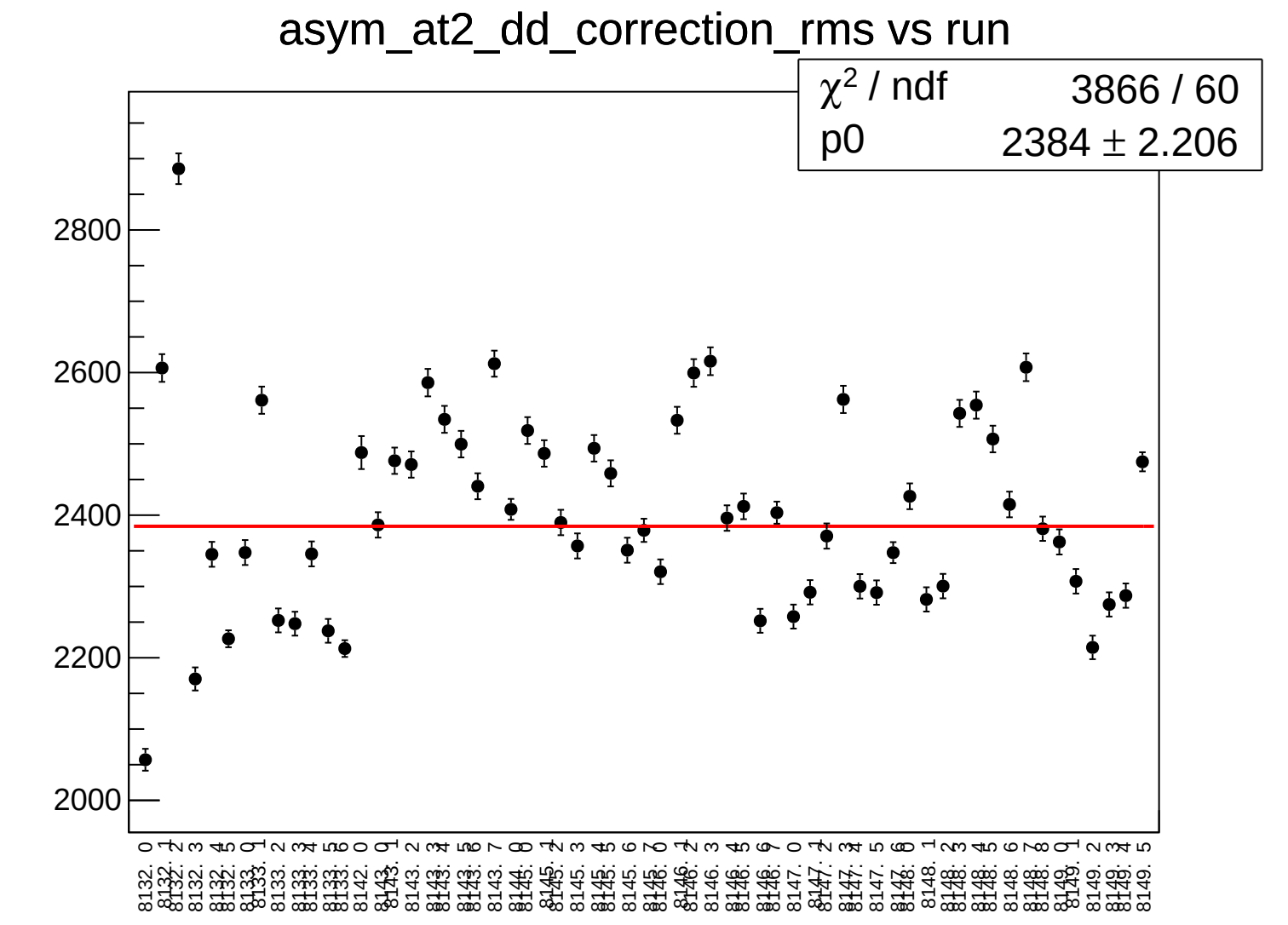

reg_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 64.23 / 60
p0 −709.1± 2364
50
0
−50
−100
−150
pull
Entries 61
Mean 209
Std Dev 175.2
3
2
1
0
−1
−2

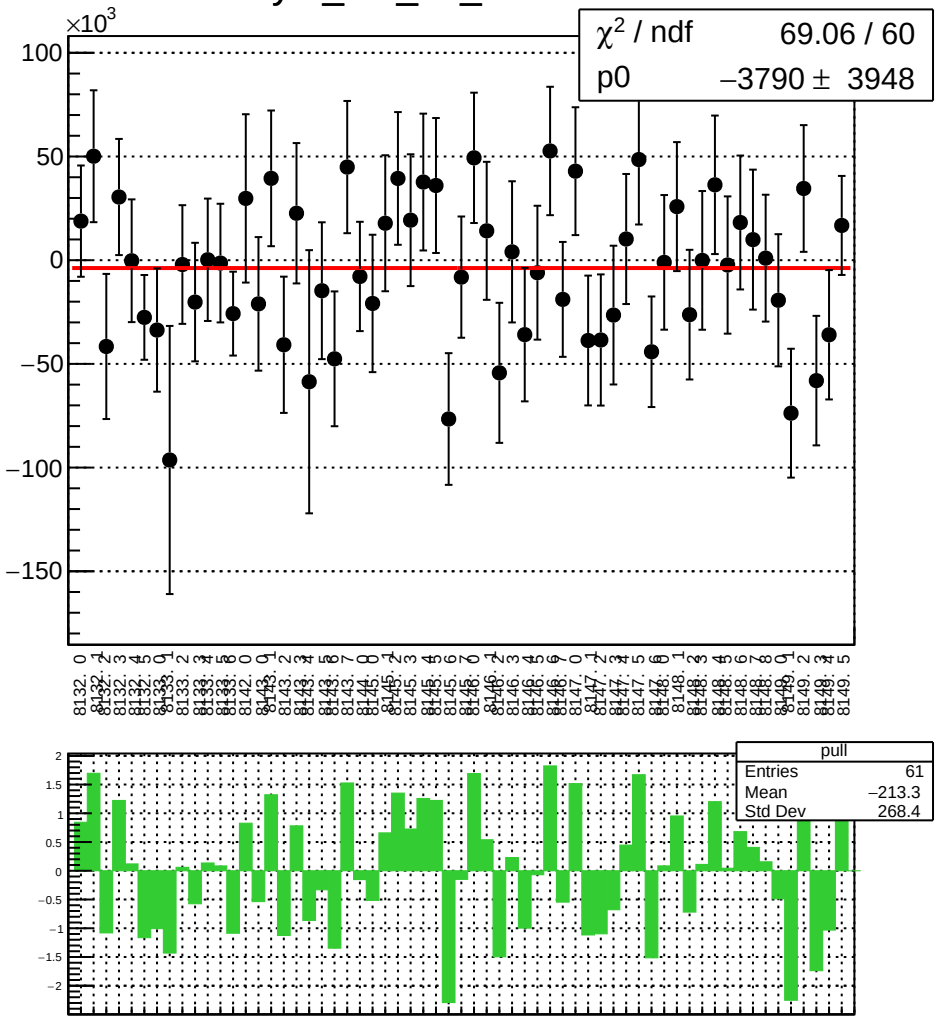

pull1D
Entries 61
Mean −0.01409
Std Dev 1.026
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

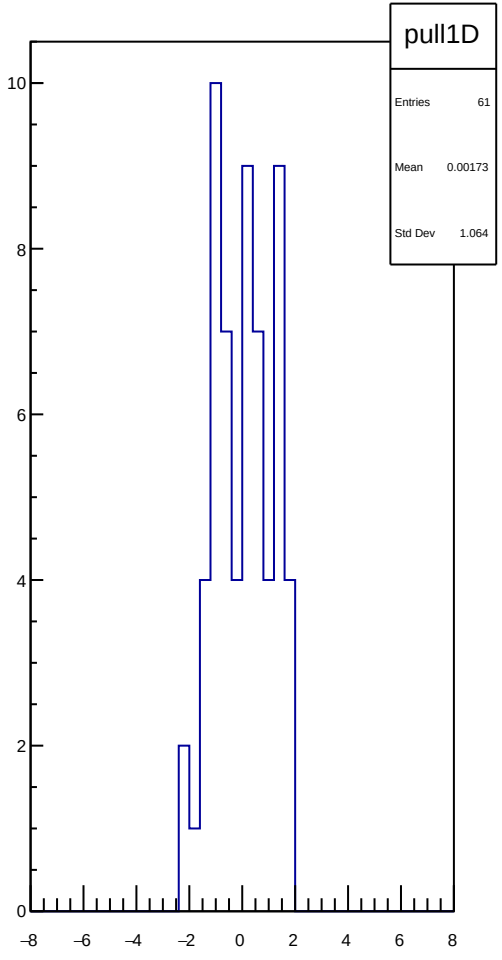

reg_asym_at2_dd_rms vs run
χ² / ndf 2.528e+04 / 60
p0 1790 ± 1.671
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

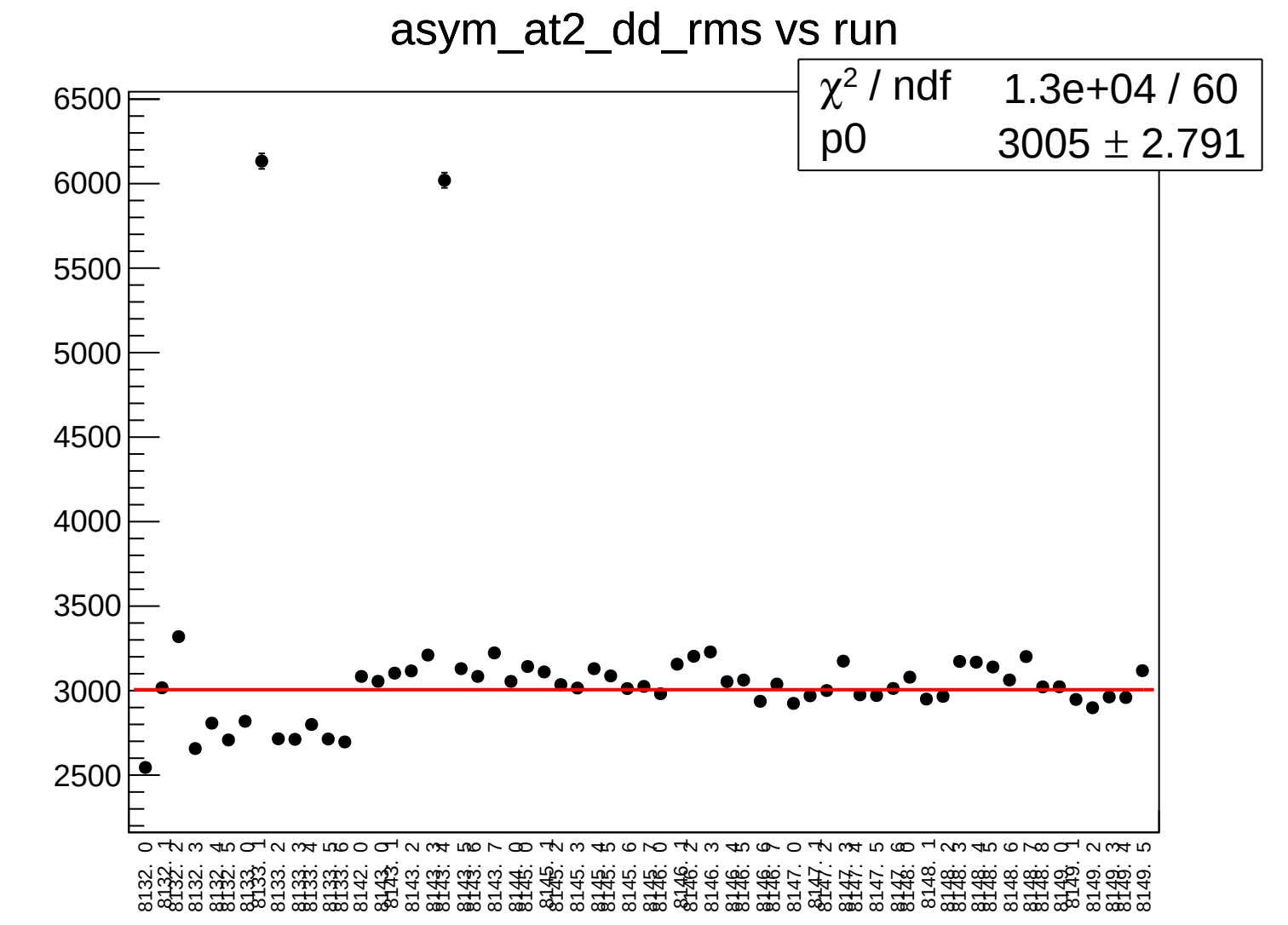

asym_at2_dd_correction_mean vs run
χ² / ndf 63.35 / 60
p0 2480 ± 3120
pull
Entries 61
Mean 178.1
Std Dev 153.3

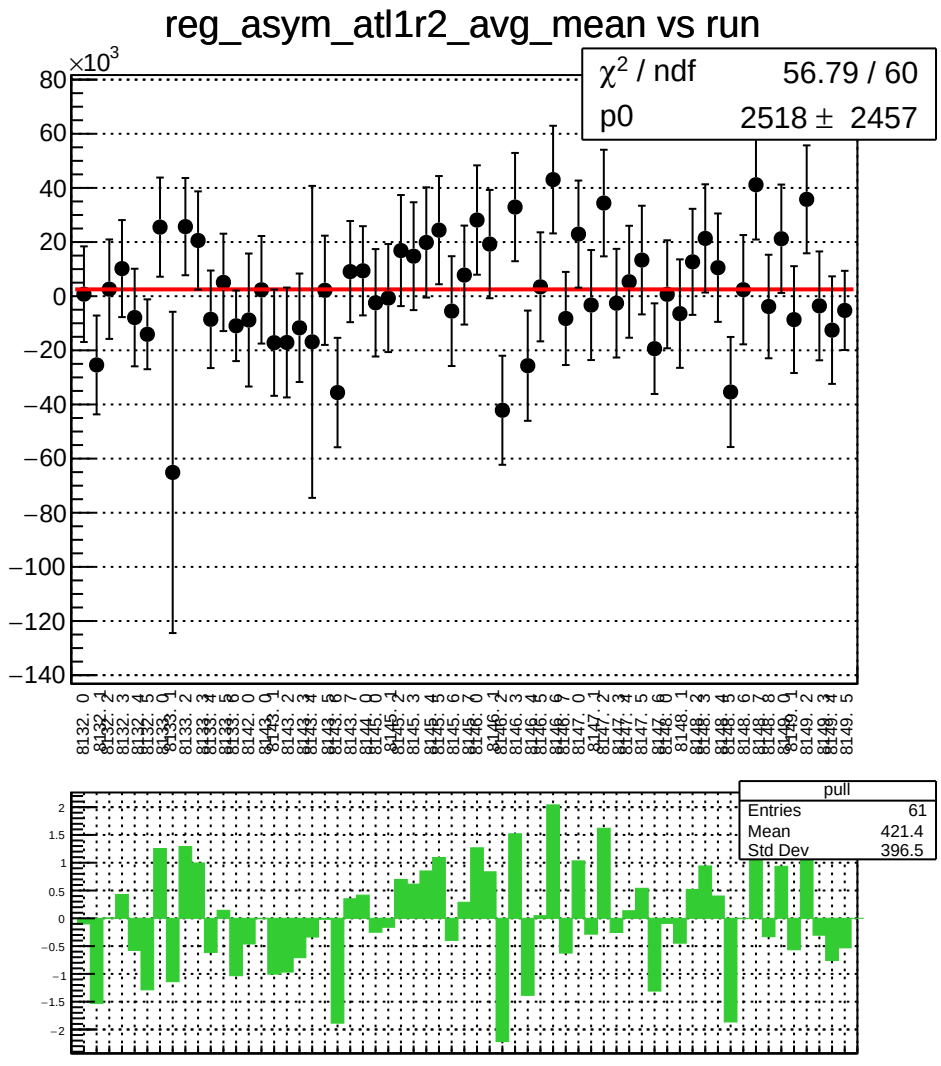

pull1D
Entries 61
Mean −0.008371
Std Dev 1.019

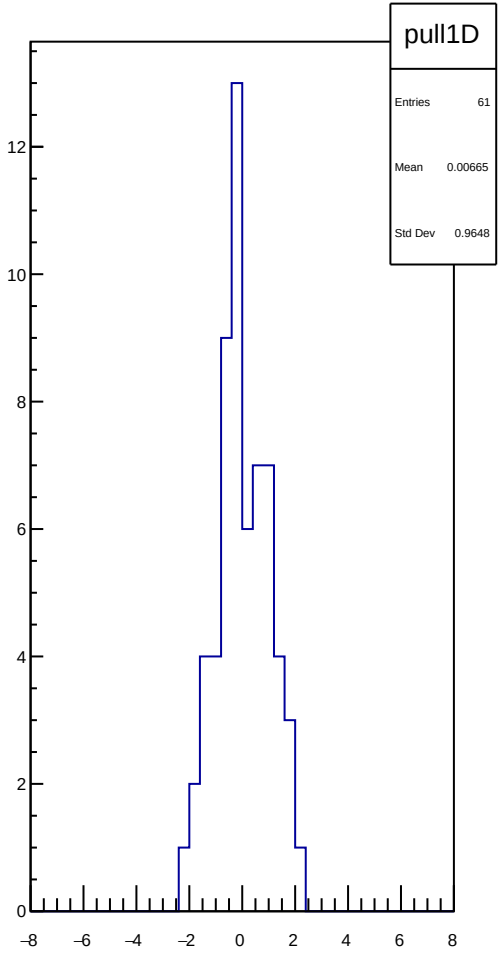

asym_at2_dd_correction_rms vs run
χ² / ndf 3866 / 60
p0 2384 ± 2.206
2800
2600
2400
2200
2000

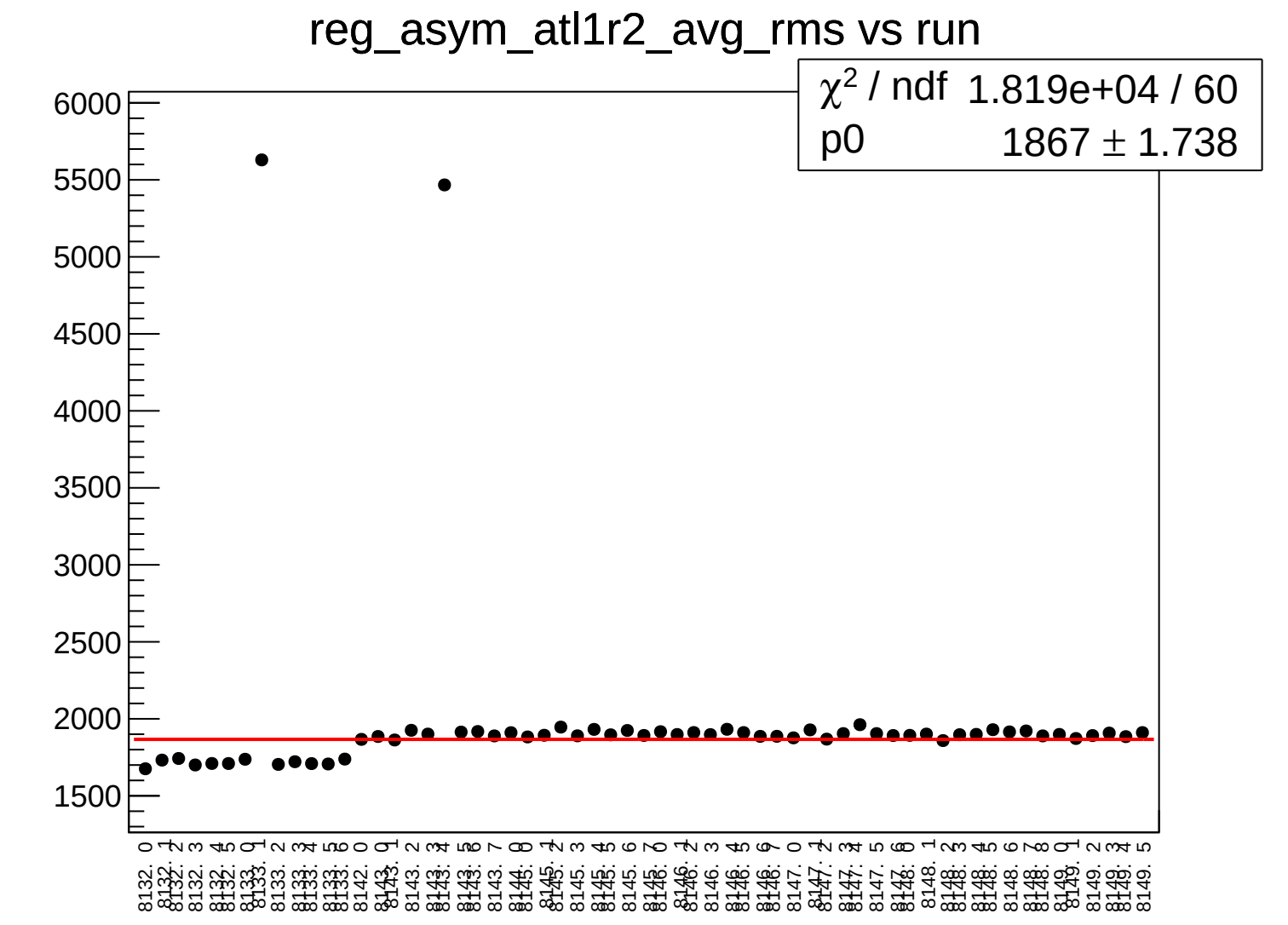

asym_at2_dd_mean vs run
×10^3
χ² / ndf 69.06 / 60
p0 −3790 ± 3948
pull
Entries 61
Mean −213.3
Std Dev 268.4

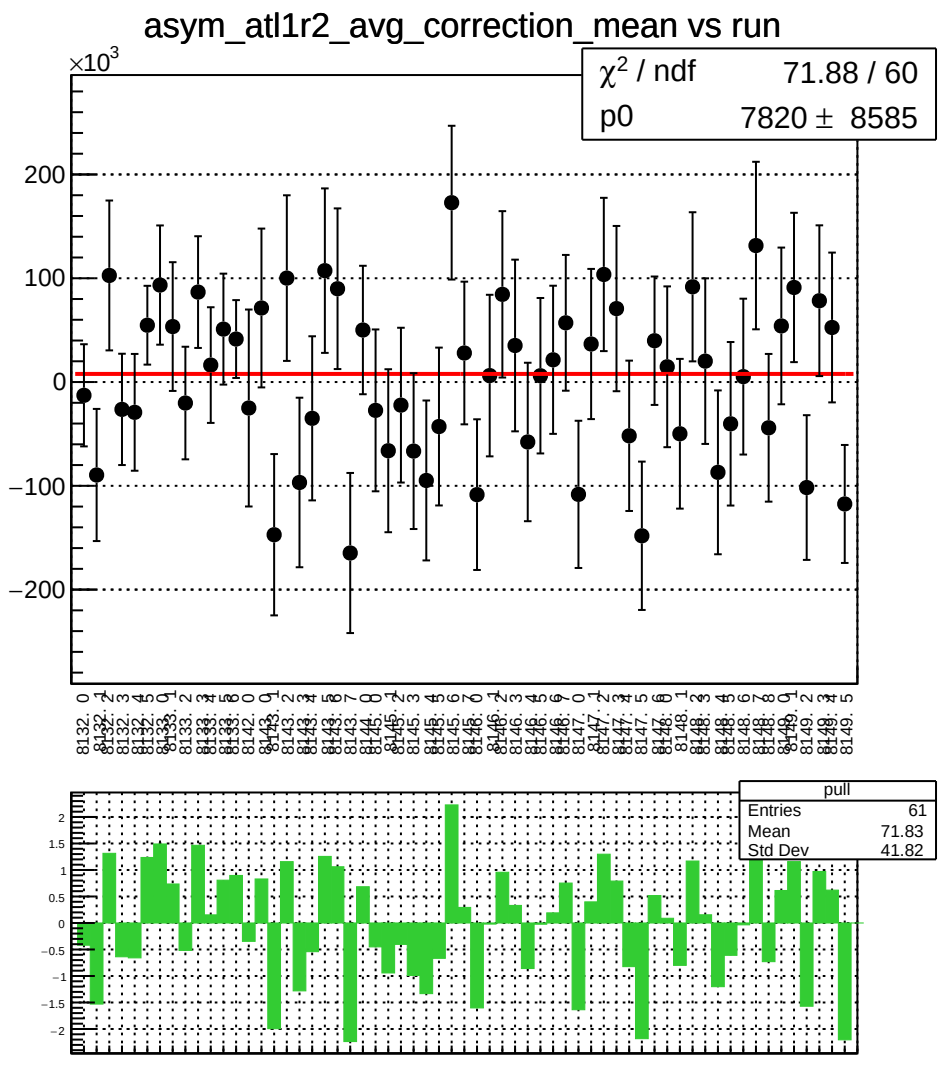

pull1D
Entries 61
Mean 0.00173
Std Dev 1.064

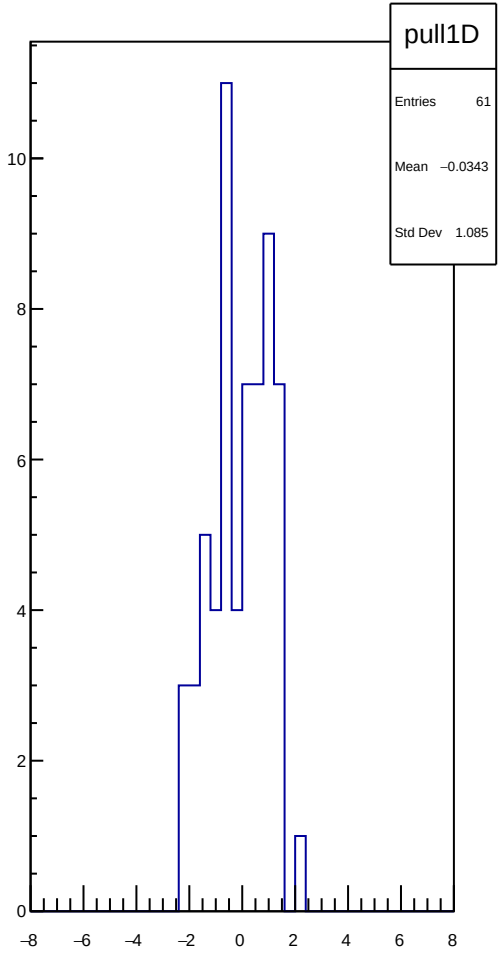

asym_at2_dd_rms vs run
χ^2 / ndf 1.3e+04 / 60
p0 3005 ± 2.791
6500
6000
5500
5000
4500
4000
3500
3000
2500

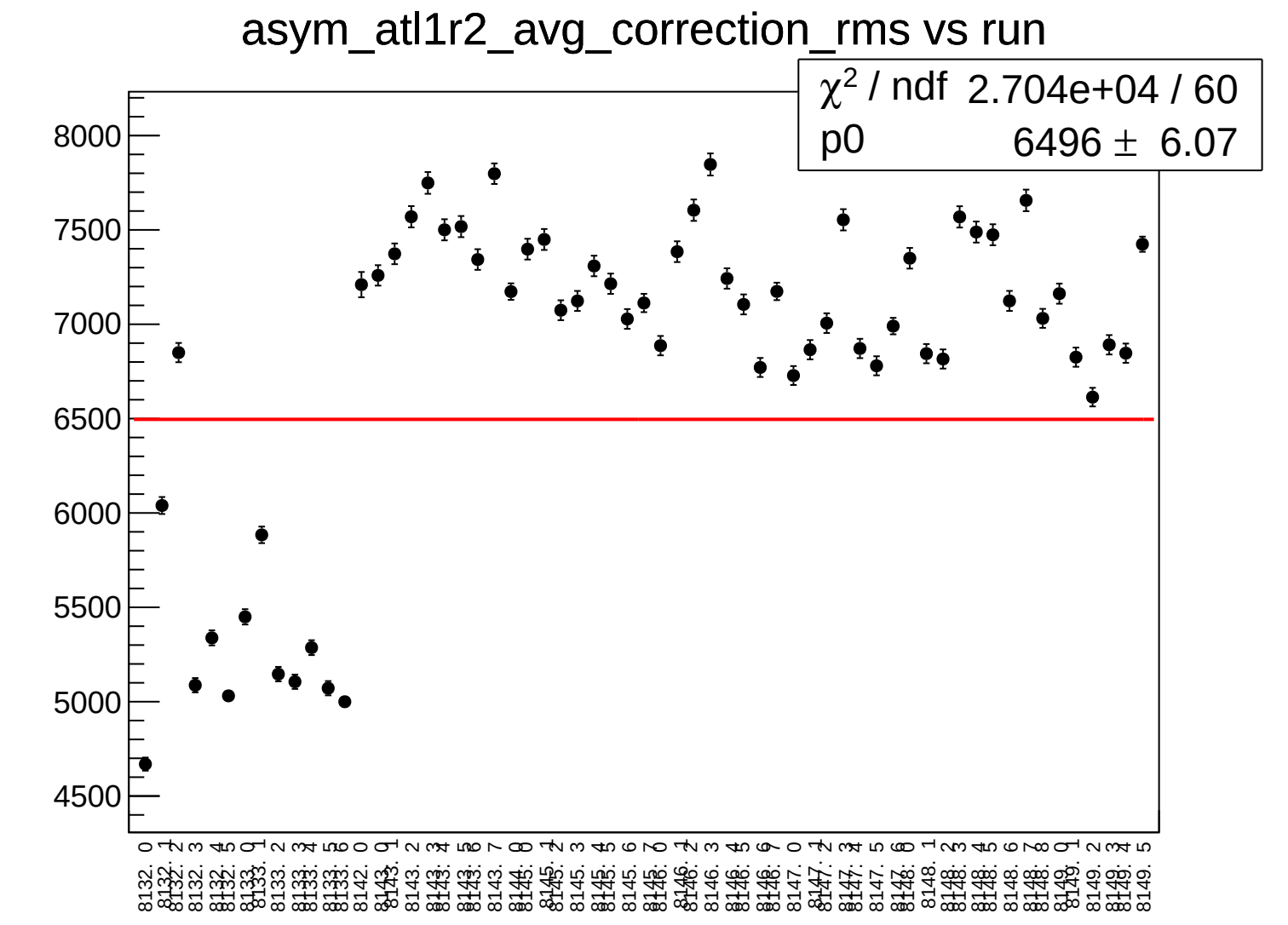

reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 56.79 / 60
p0 2518 ± 2457
pull
Entries 61
Mean 421.4
Std Dev 396.5

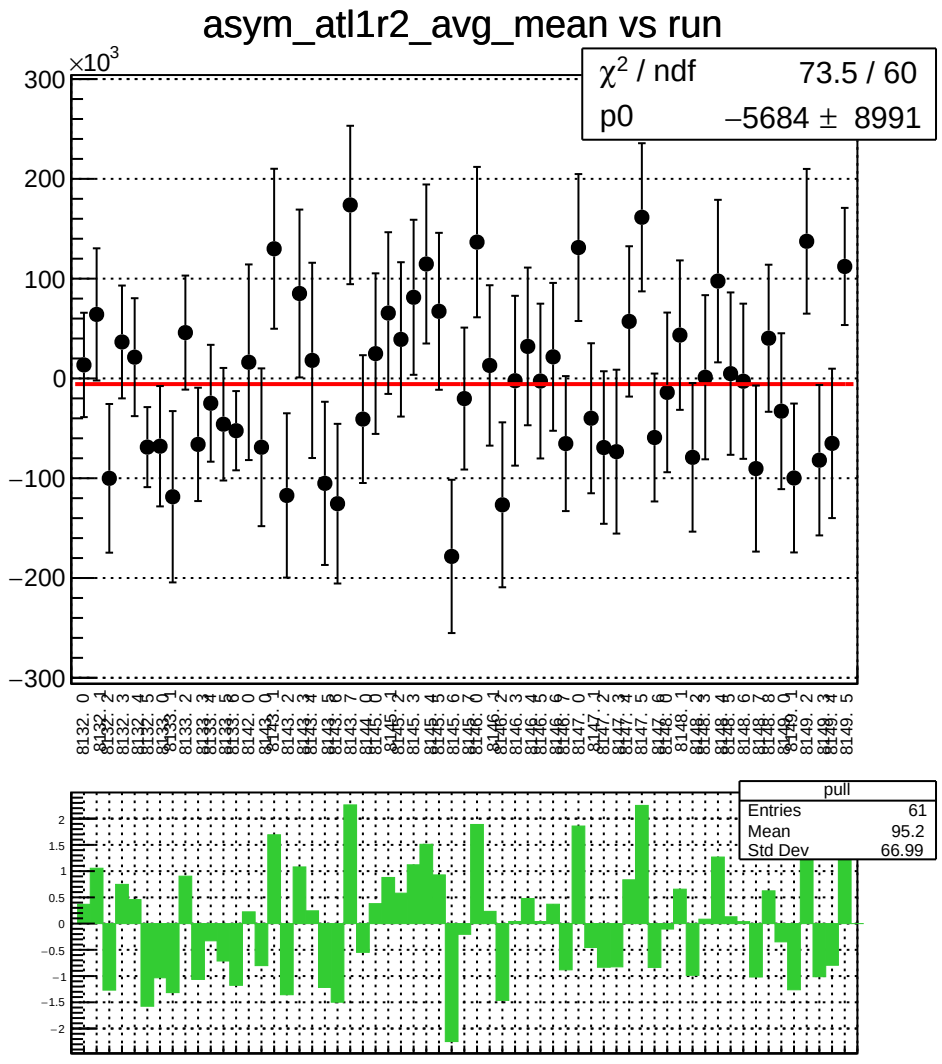

pull1D
Entries 61
Mean 0.00665
Std Dev 0.9648

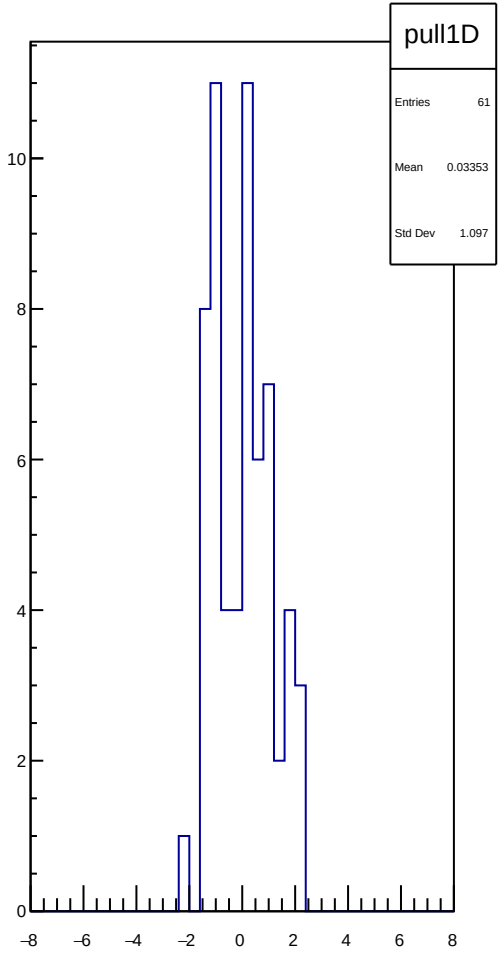

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 1.819e+04 / 60
p0 1867 ± 1.738
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

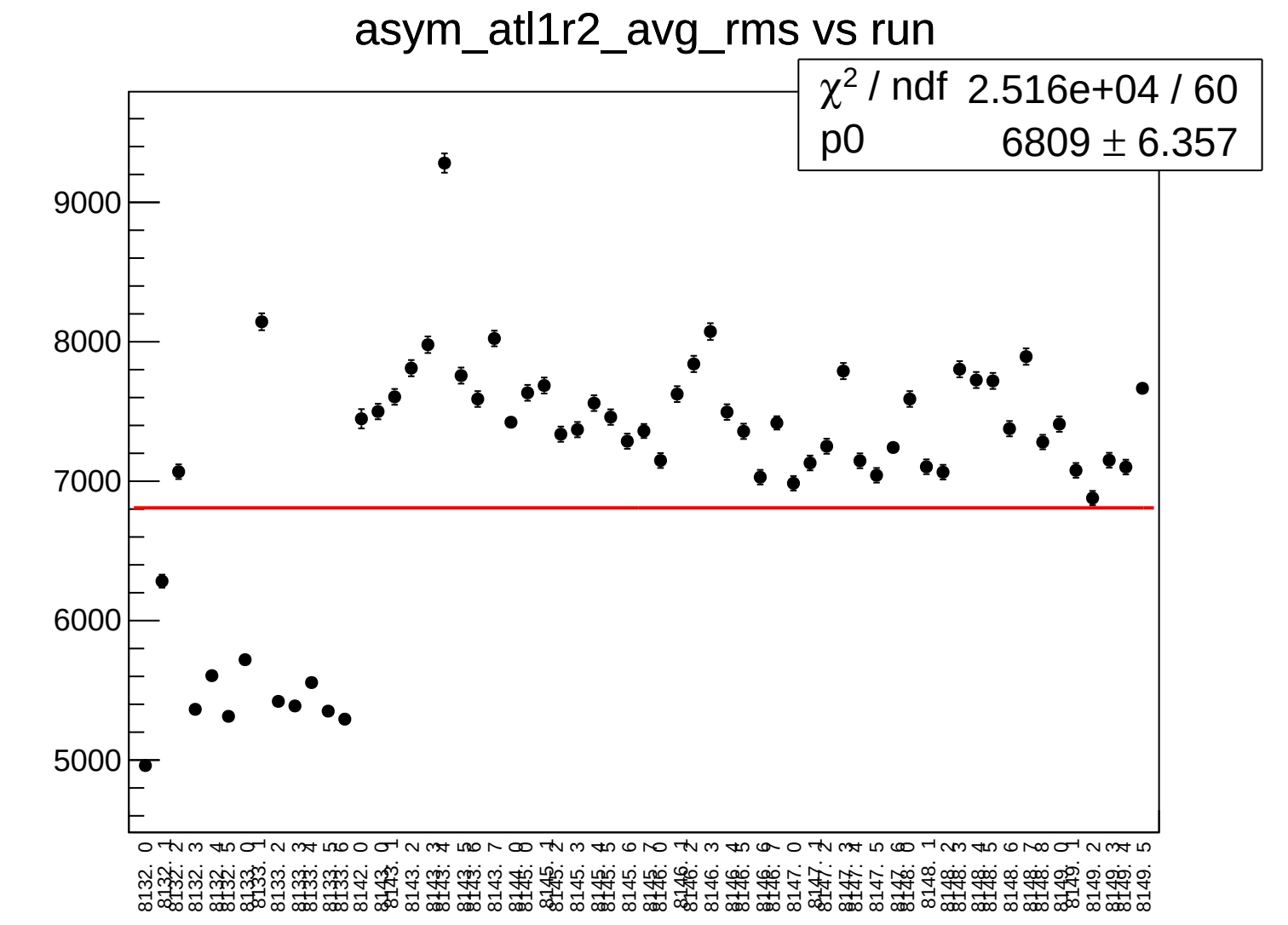

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 71.88 / 60
p0 7820 ± 8585
200
100
0
−100
−200
pull
Entries 61
Mean 71.83
Std Dev 41.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

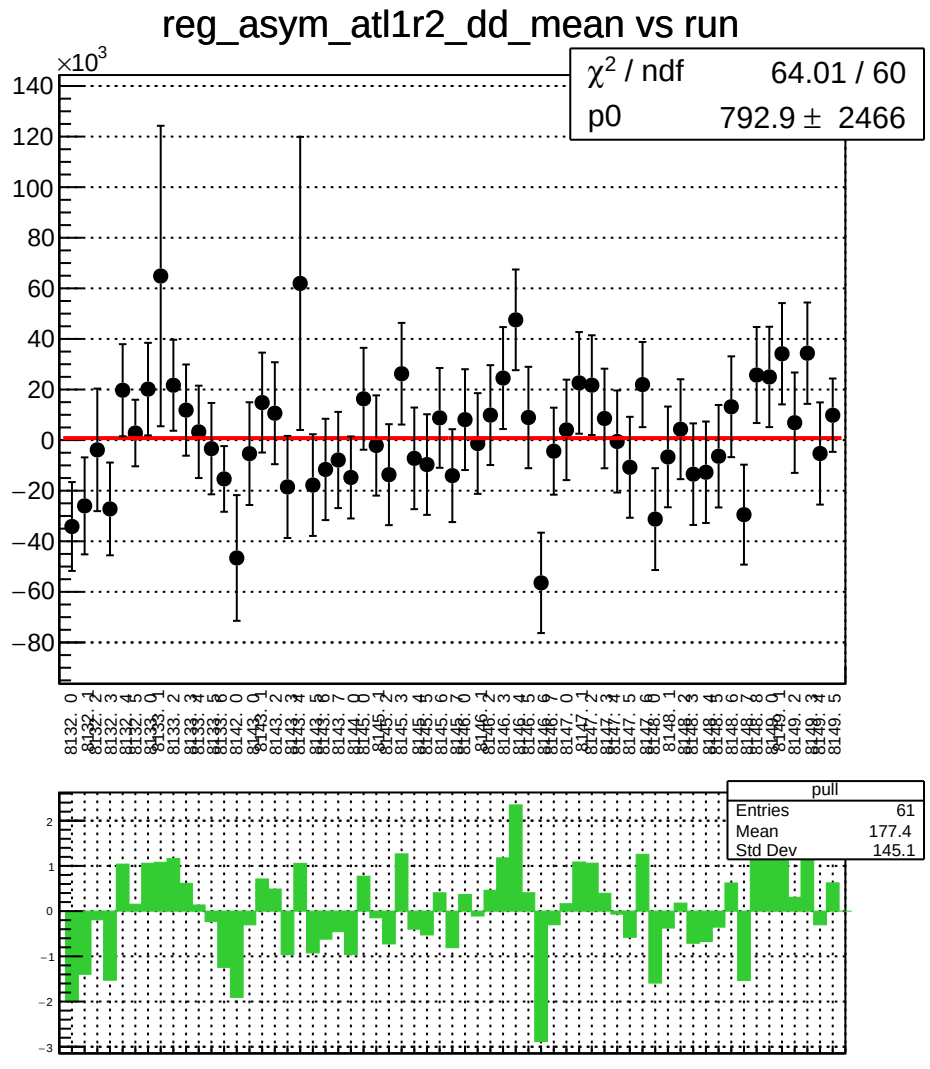

pull1D
Entries 61
Mean −0.0343
Std Dev 1.085
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

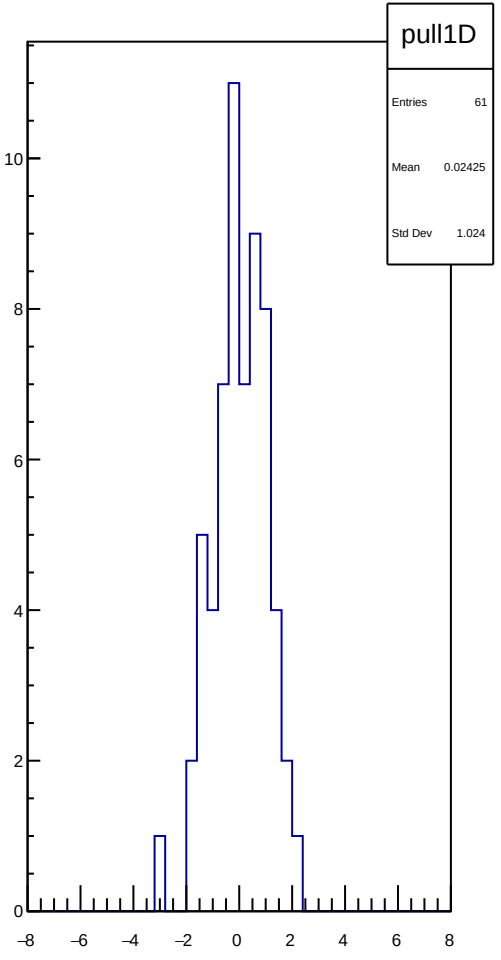

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 2.704e+04 / 60
p0 6496 ± 6.07
8000
7500
7000
6500
6000
5500
5000
4500

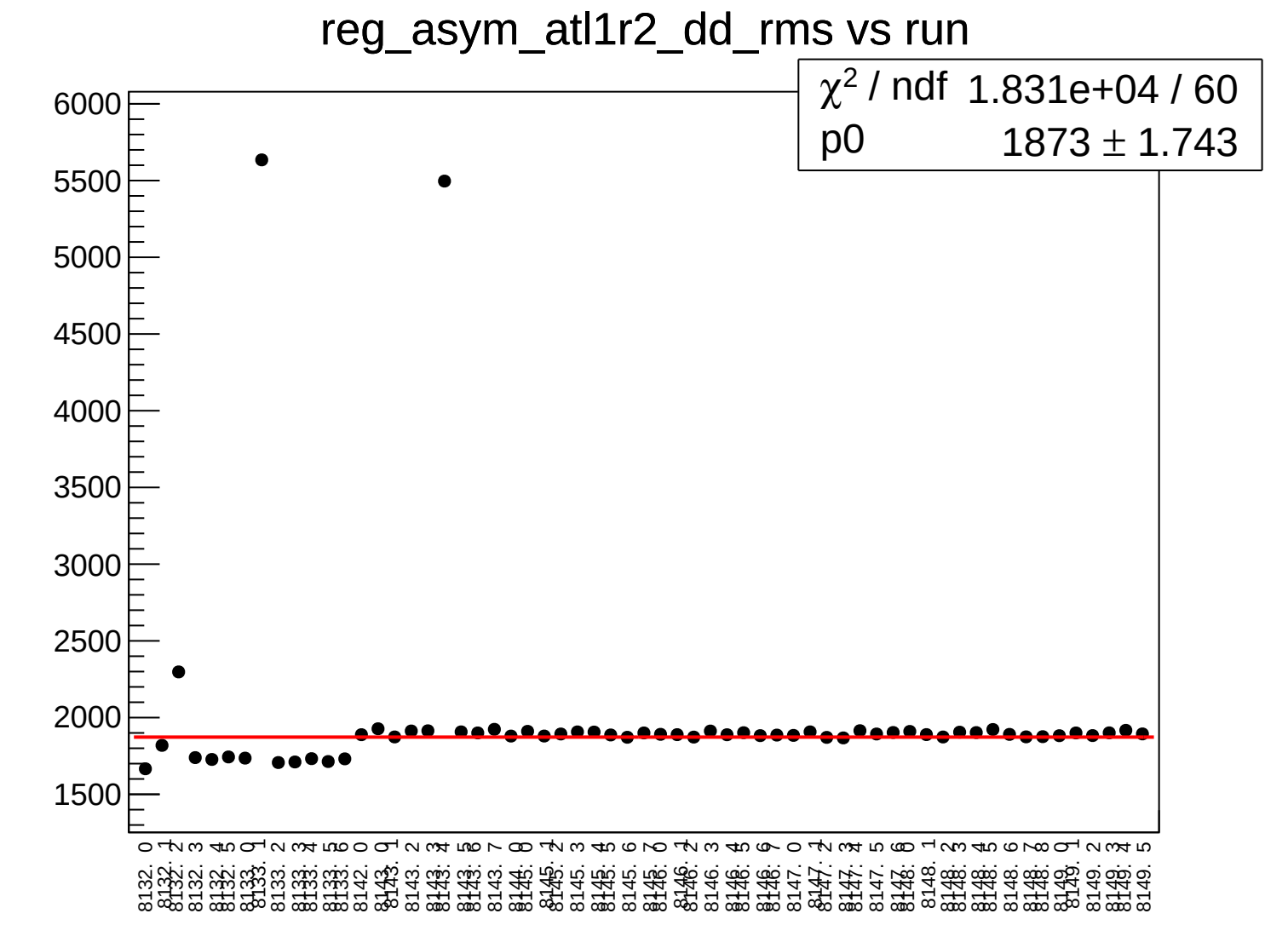

asym_atl1r2_avg_mean vs run
χ² / ndf 73.5 / 60
p0 −5684 ± 8991
pull
Entries 61
Mean 95.2
Std Dev 66.99

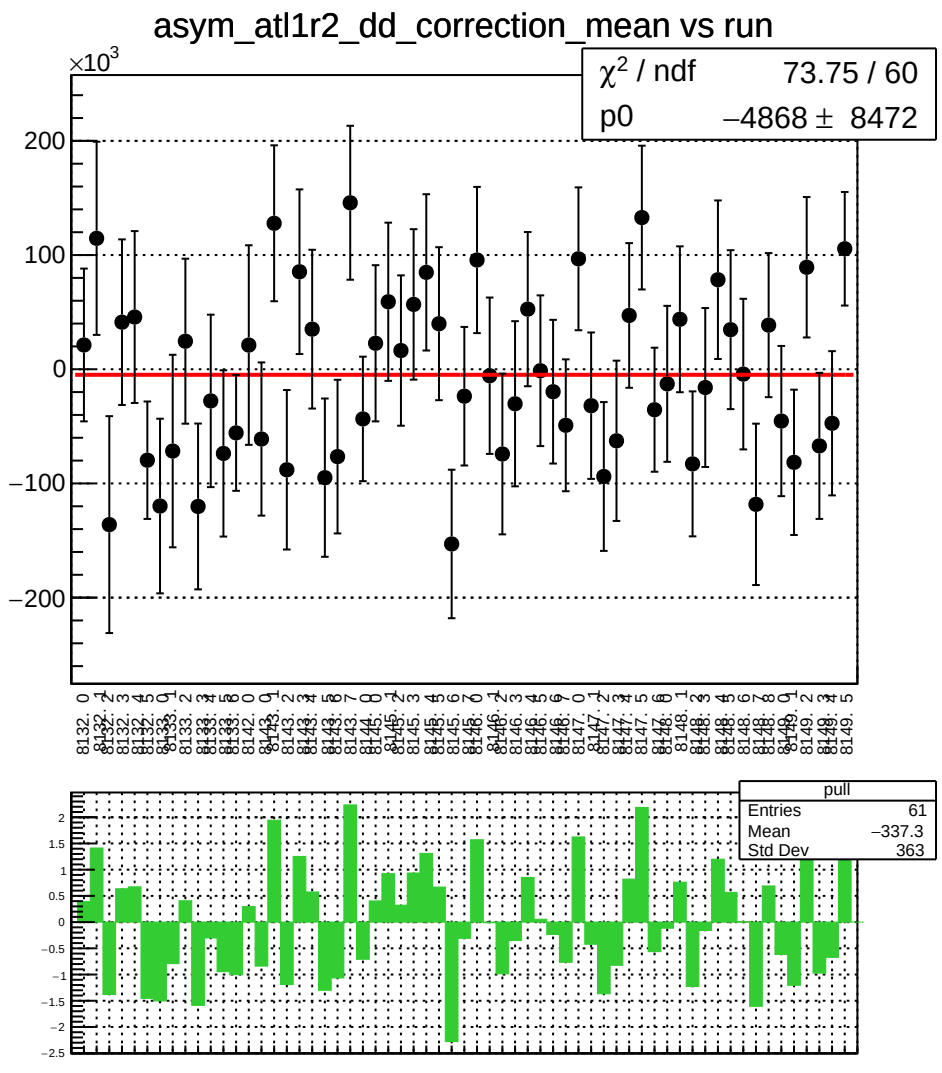

pull1D
Entries 61
Mean 0.03353
Std Dev 1.097

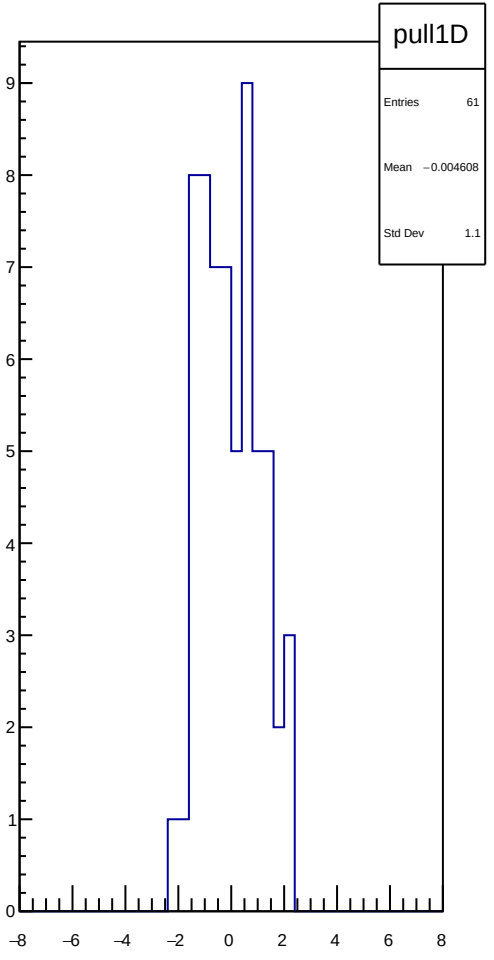

asym_atl1r2_avg_rms vs run
χ² / ndf 2.516e+04 / 60
p0 6809 ± 6.357
9000
8000
7000
6000
5000

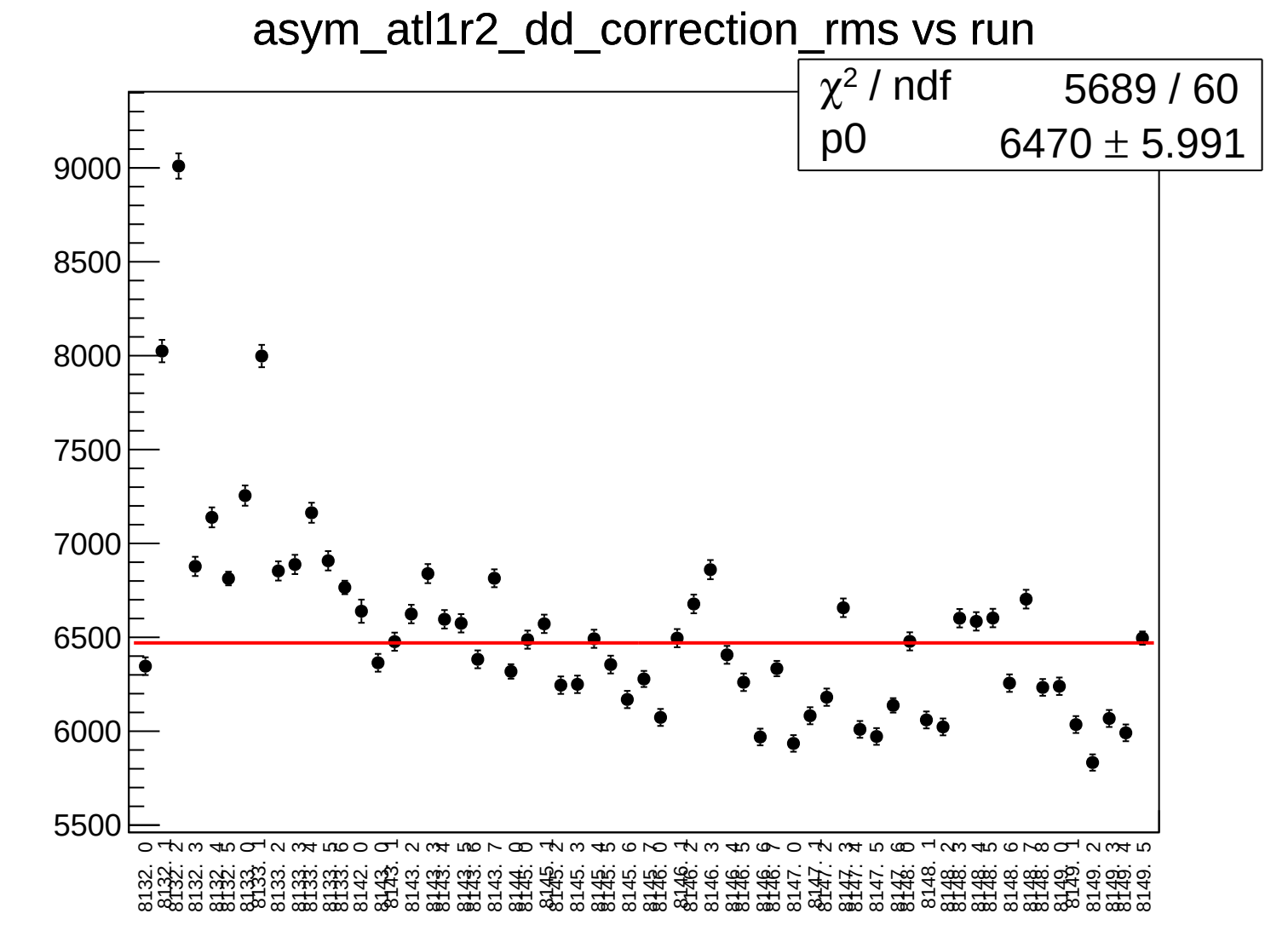

reg_asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 64.01 / 60
p0 792.9 ± 2466
pull
Entries 61
Mean 177.4
Std Dev 145.1

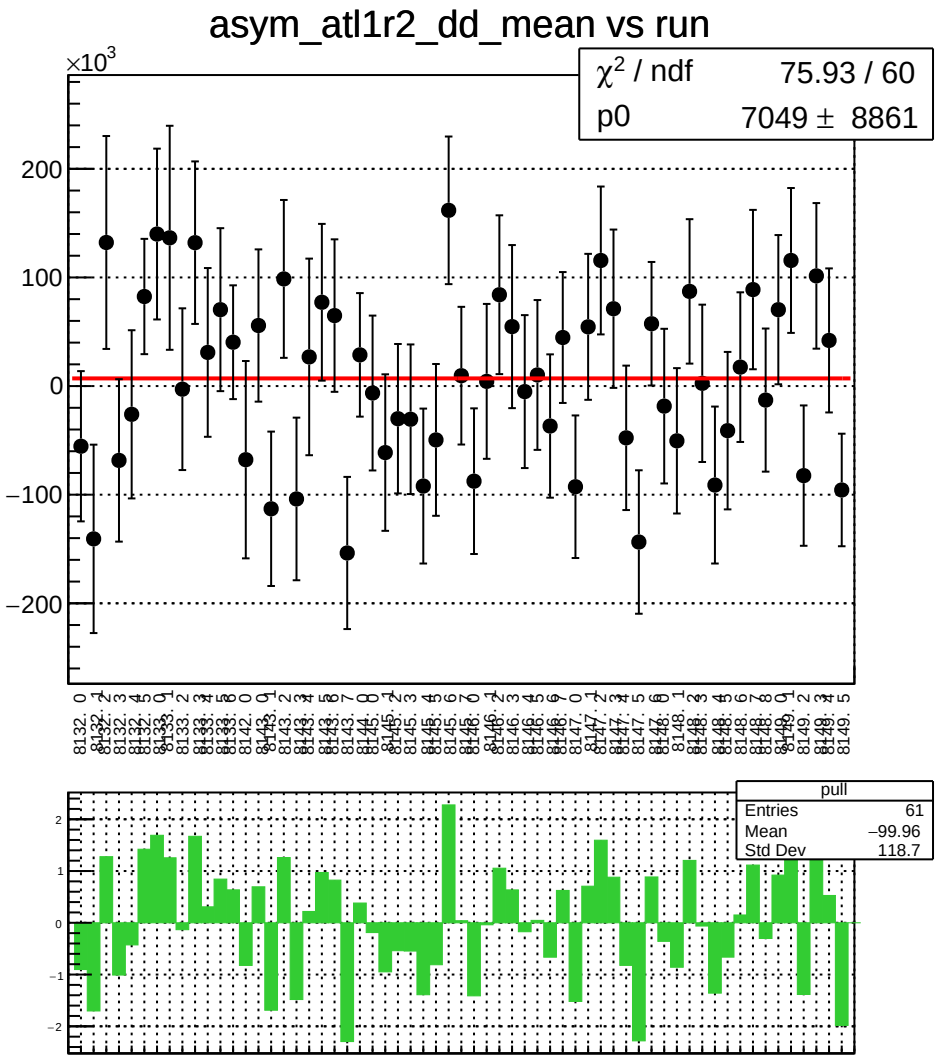

pull1D
Entries 61
Mean 0.02425
Std Dev 1.024

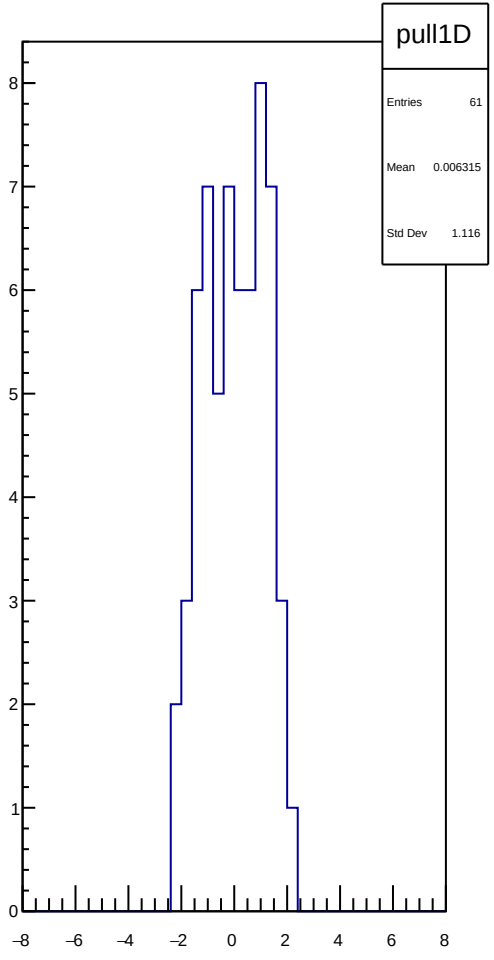

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 1.831e+04 / 60
p0 1873 ± 1.743
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

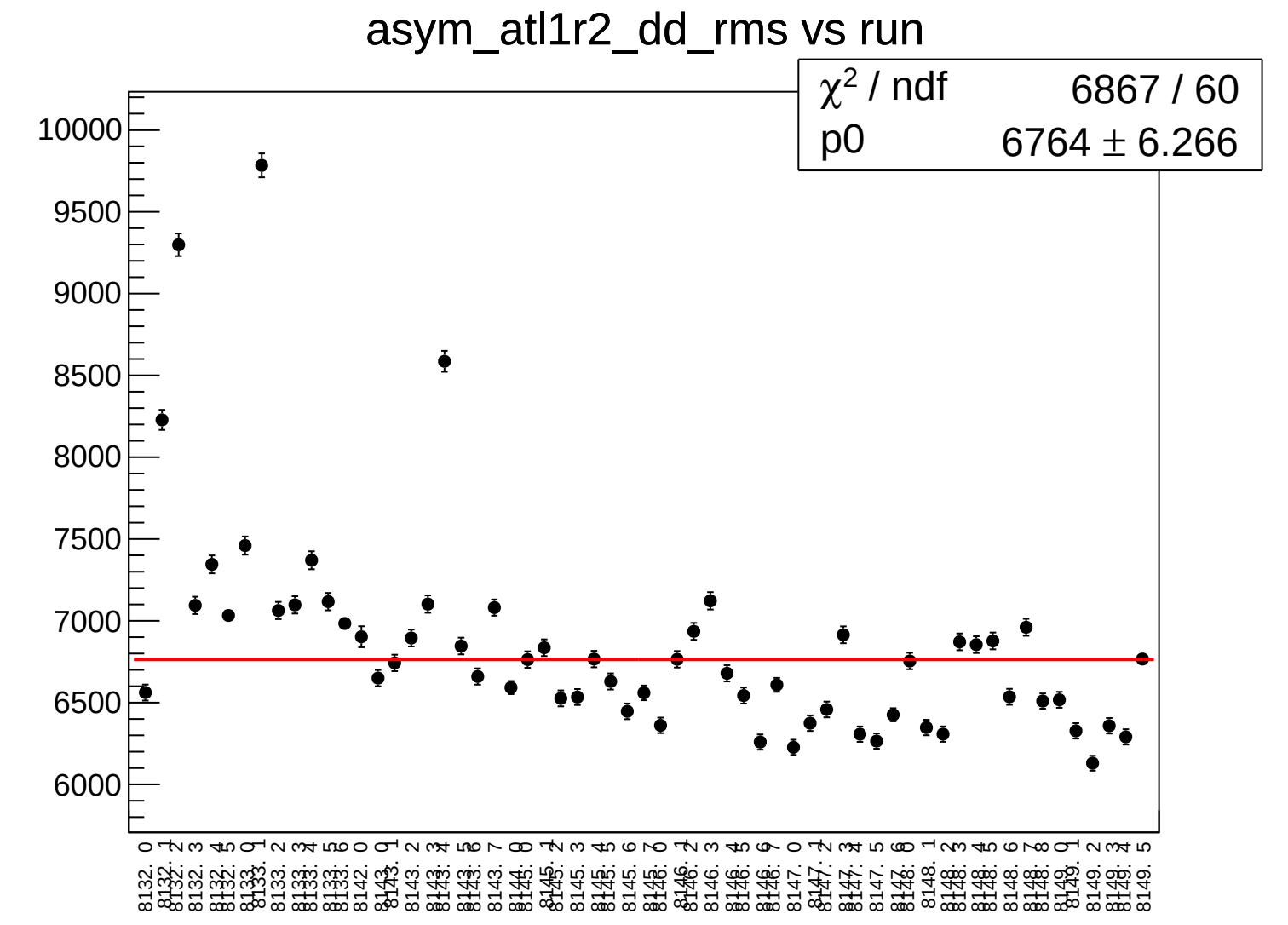

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 73.75 / 60
p0 −4868 ± 8472
200
100
0
−100
−200
pull
Entries 61
Mean −337.3
Std Dev 363
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

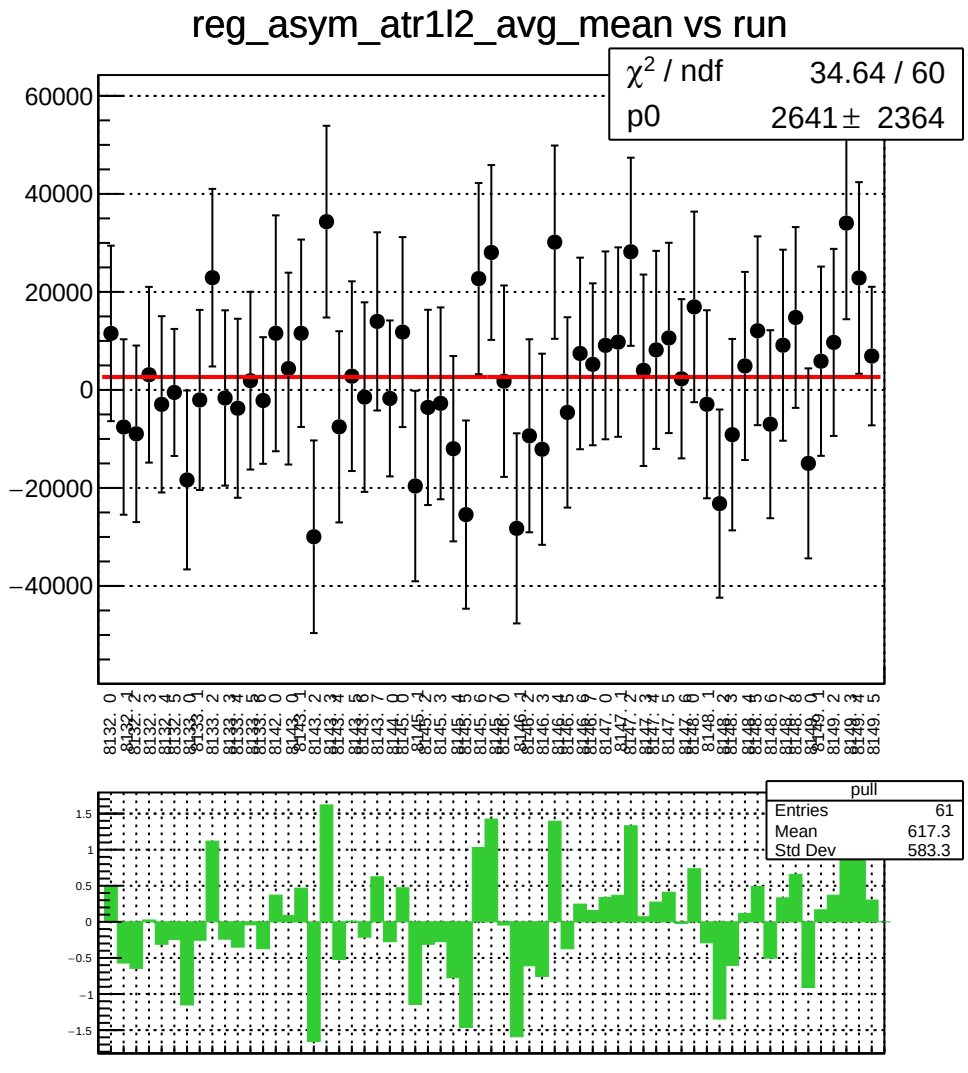

pull1D
Entries 61
Mean −0.004608
Std Dev 1.1
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

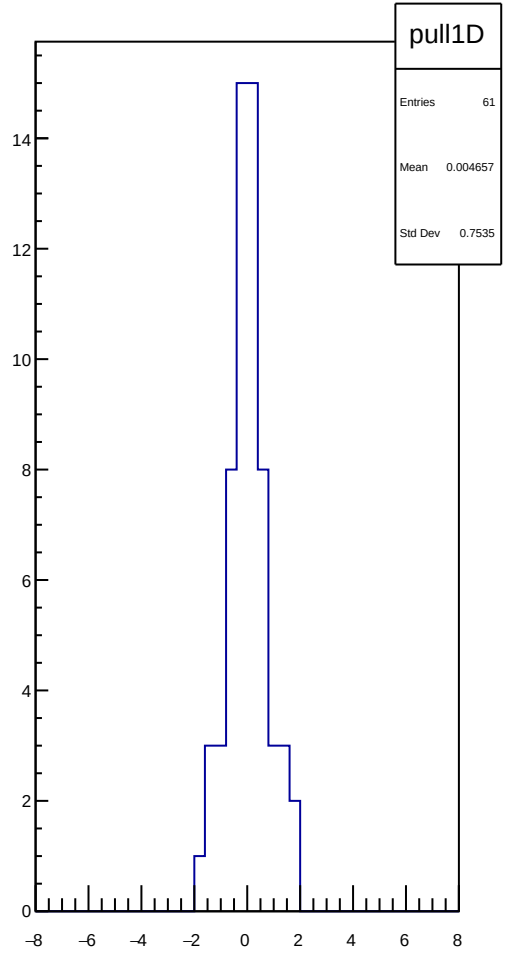

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 5689 / 60
p0 6470 ± 5.991
9000
8500
8000
7500
7000
6500
6000
5500

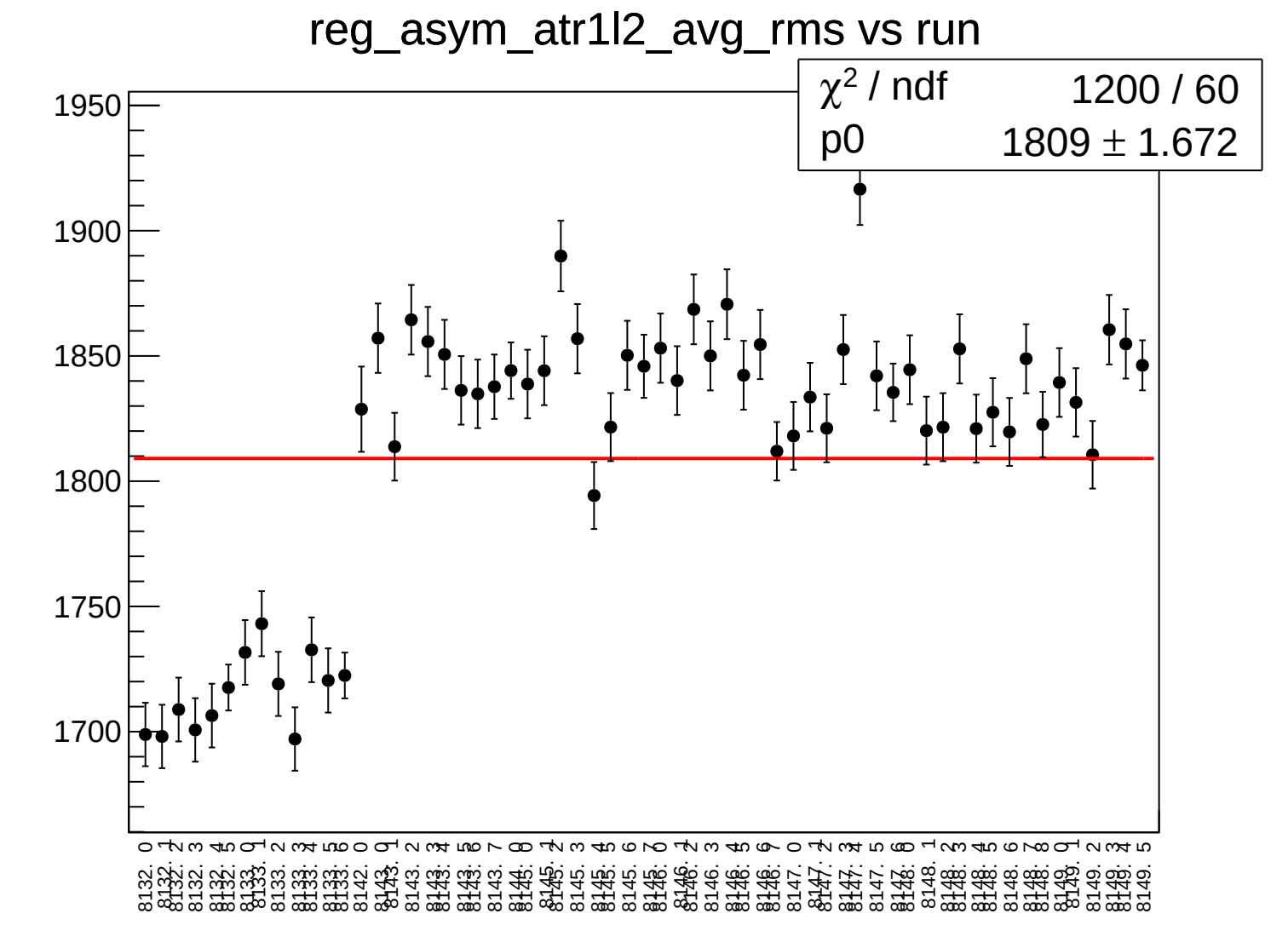

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 75.93 / 60
p0 7049 ± 8861
200
100
0
−100
−200
pull
Entries 61
Mean −99.96
Std Dev 118.7
2
1
0
−1
−2

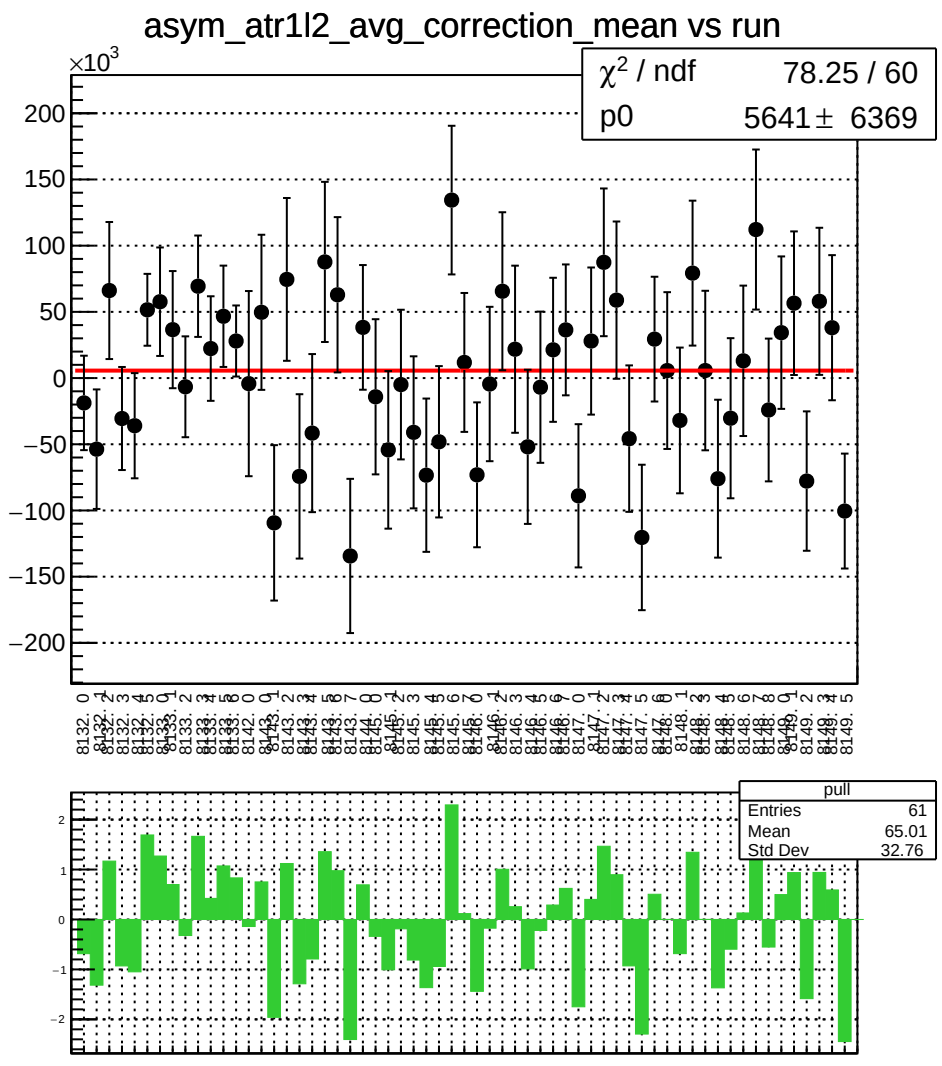

pull1D
Entries 61
Mean 0.006315
Std Dev 1.116
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

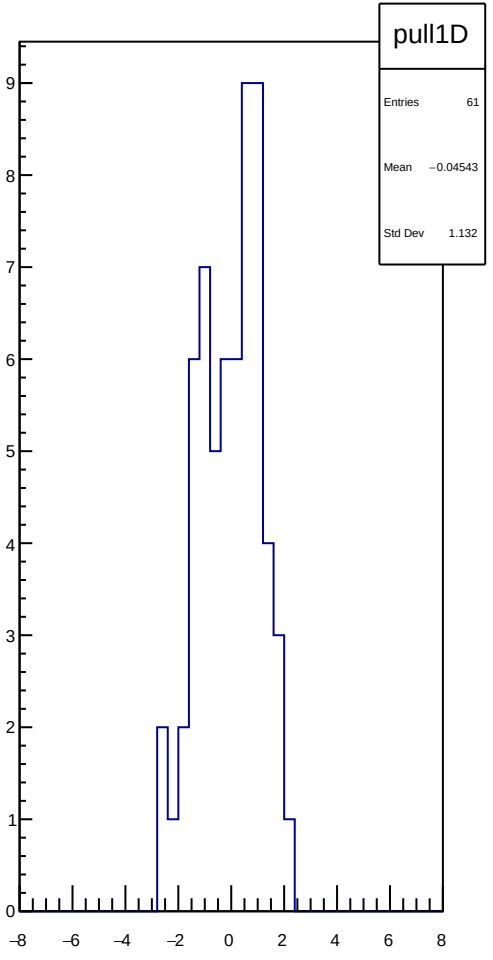

asym_atl1r2_dd_rms vs run
χ² / ndf 6867 / 60
p0 6764 ± 6.266
10000
9500
9000
8500
8000
7500
7000
6500
6000

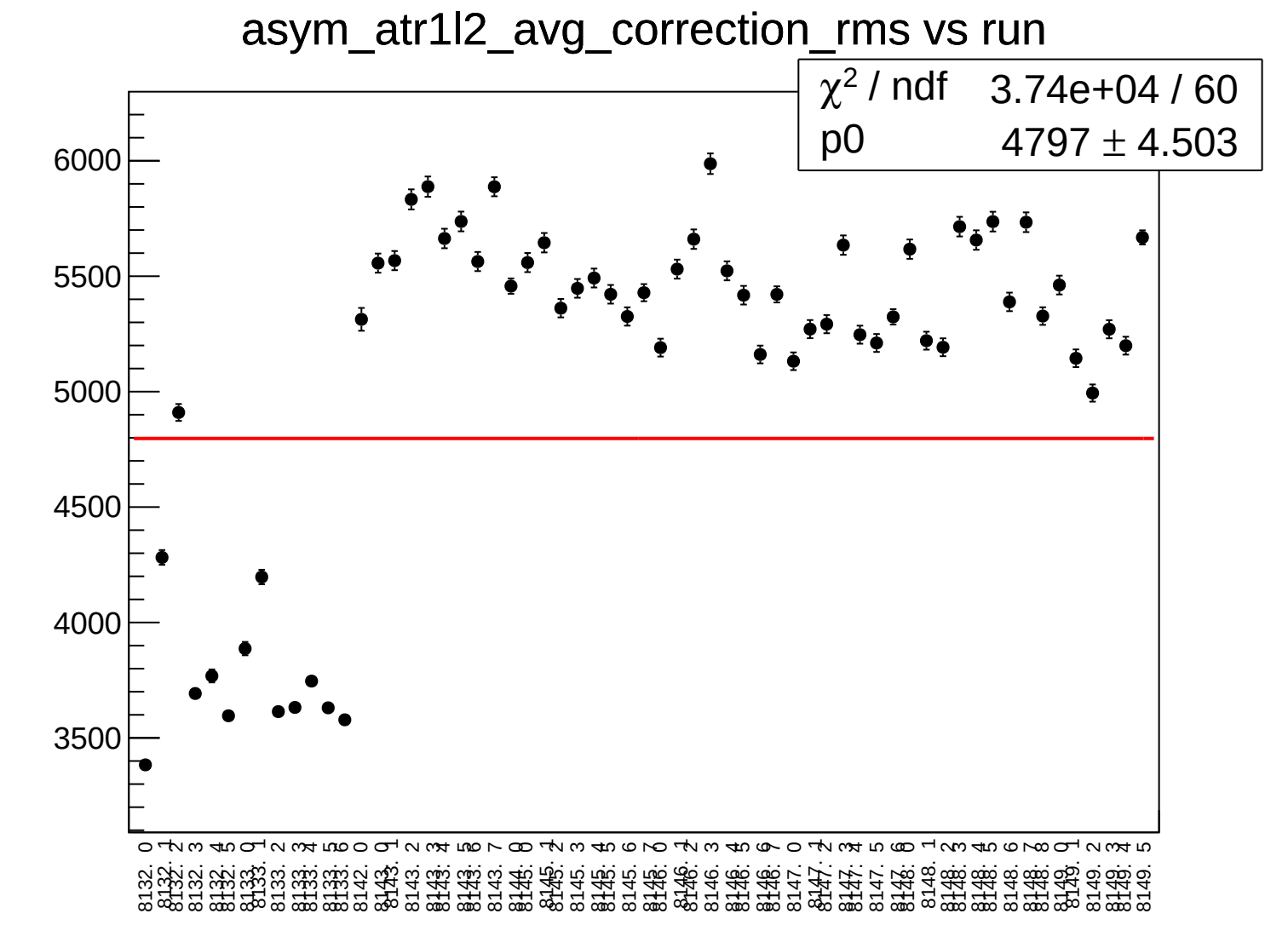

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 34.64 / 60
p0 2641 ± 2364
pull
Entries 61
Mean 617.3
Std Dev 583.3

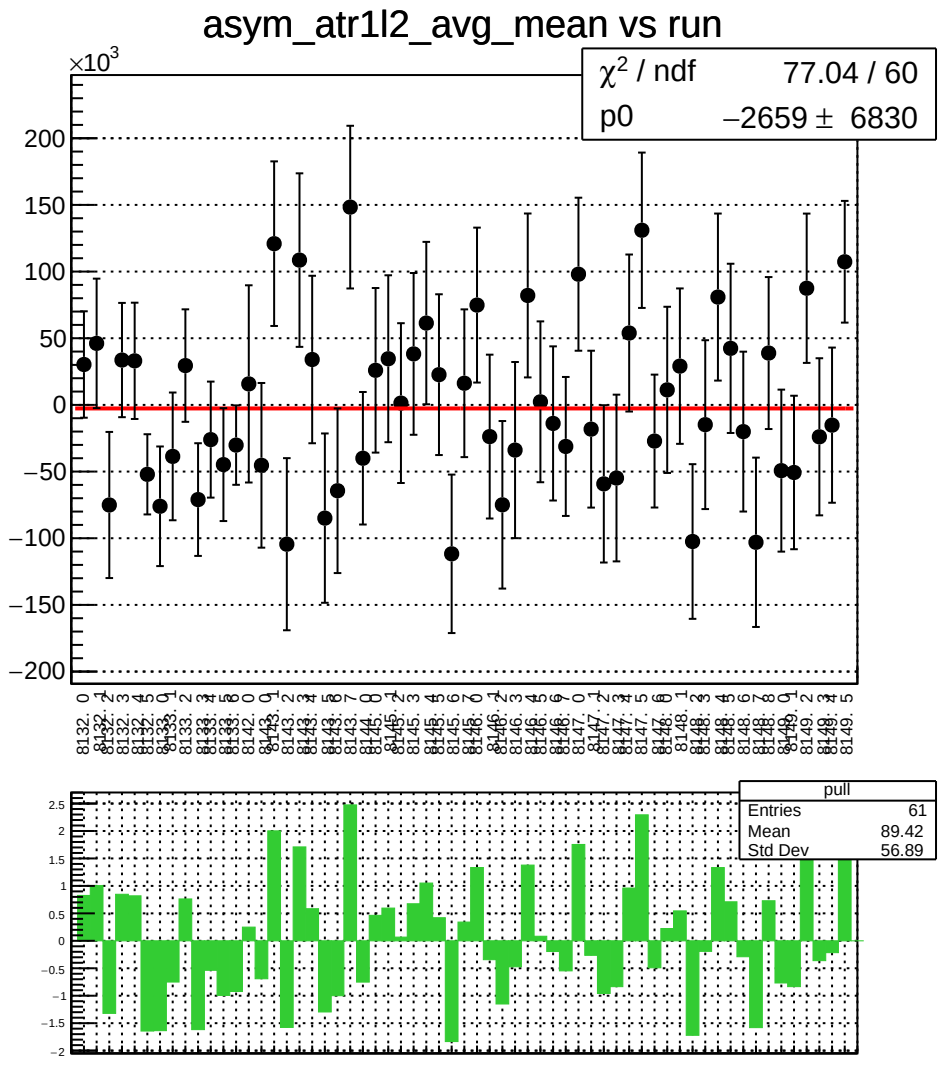

pull1D
Entries 61
Mean 0.004657
Std Dev 0.7535

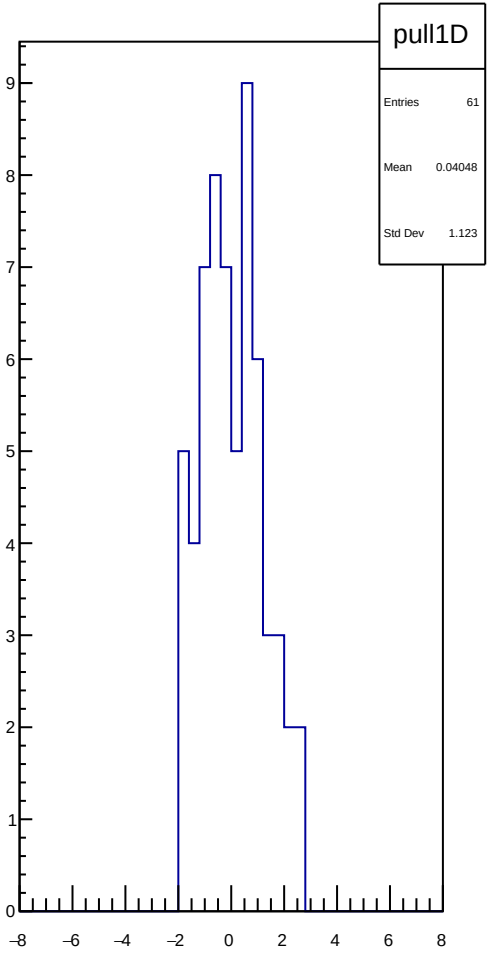

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 1200 / 60
p0 1809 ± 1.672
1950
1900
1850
1800
1750
1700

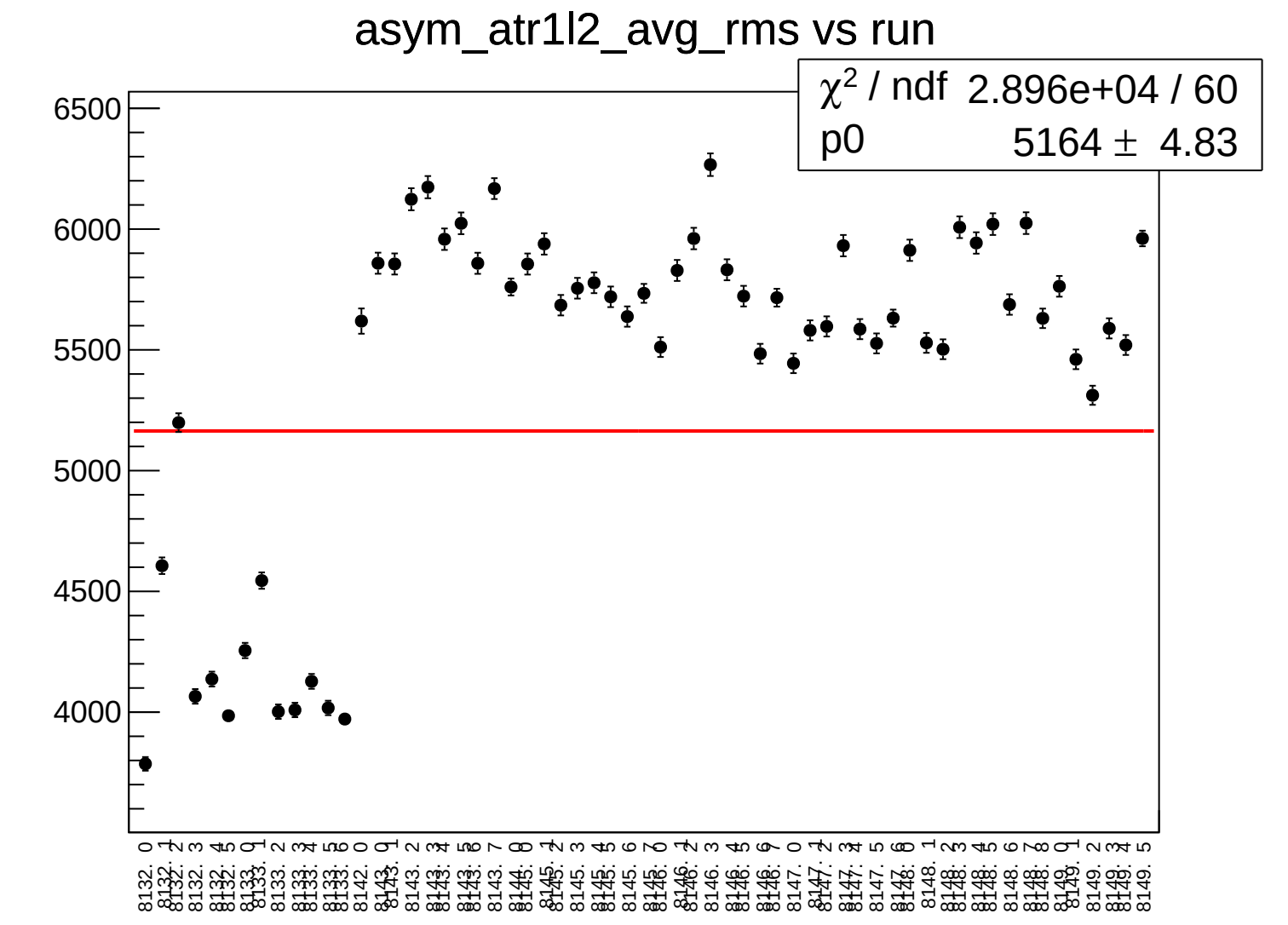

asym_atr1l2_avg_correction_mean vs run
×10^3
χ^2 / ndf 78.25 / 60
p0 5641 ± 6369
pull
Entries 61
Mean 65.01
Std Dev 32.76

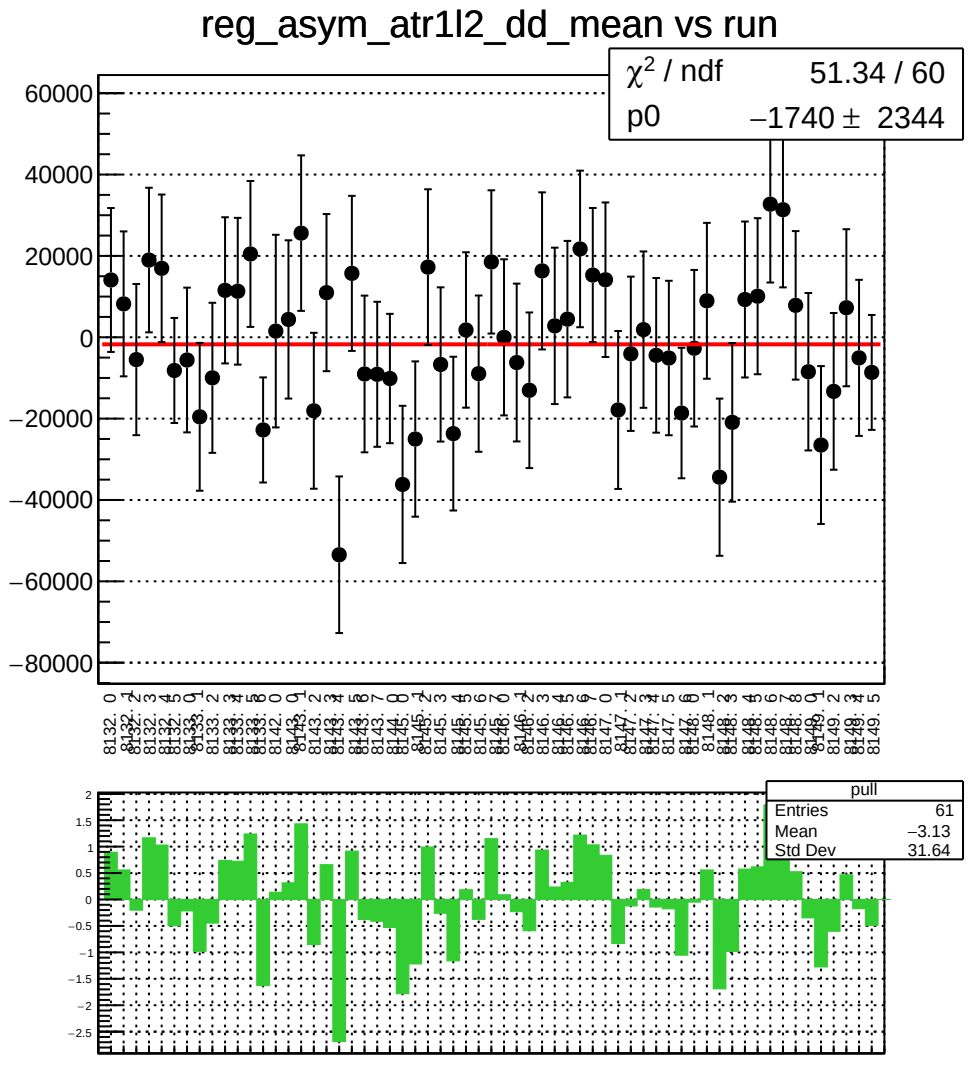

pull1D
Entries 61
Mean −0.04543
Std Dev 1.132

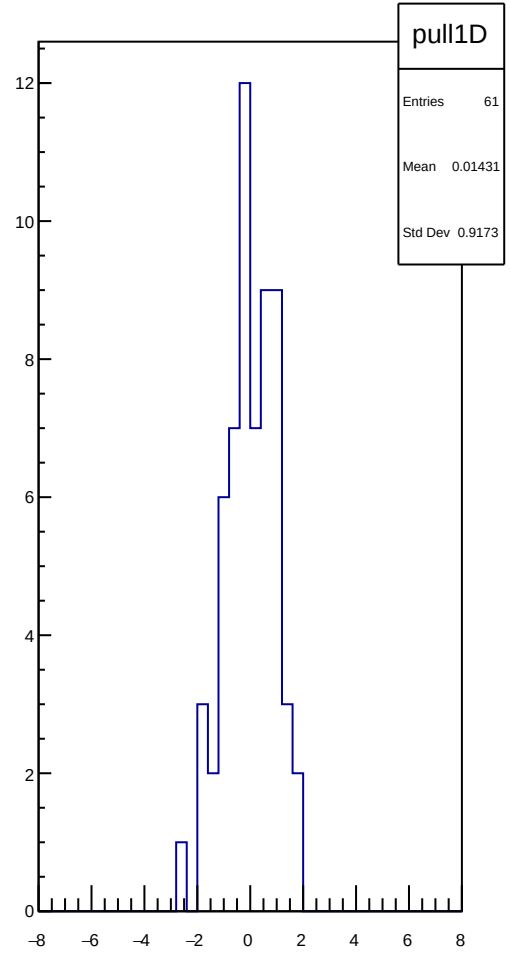

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 3.74e+04 / 60
p0 4797 ± 4.503
6000
5500
5000
4500
4000
3500

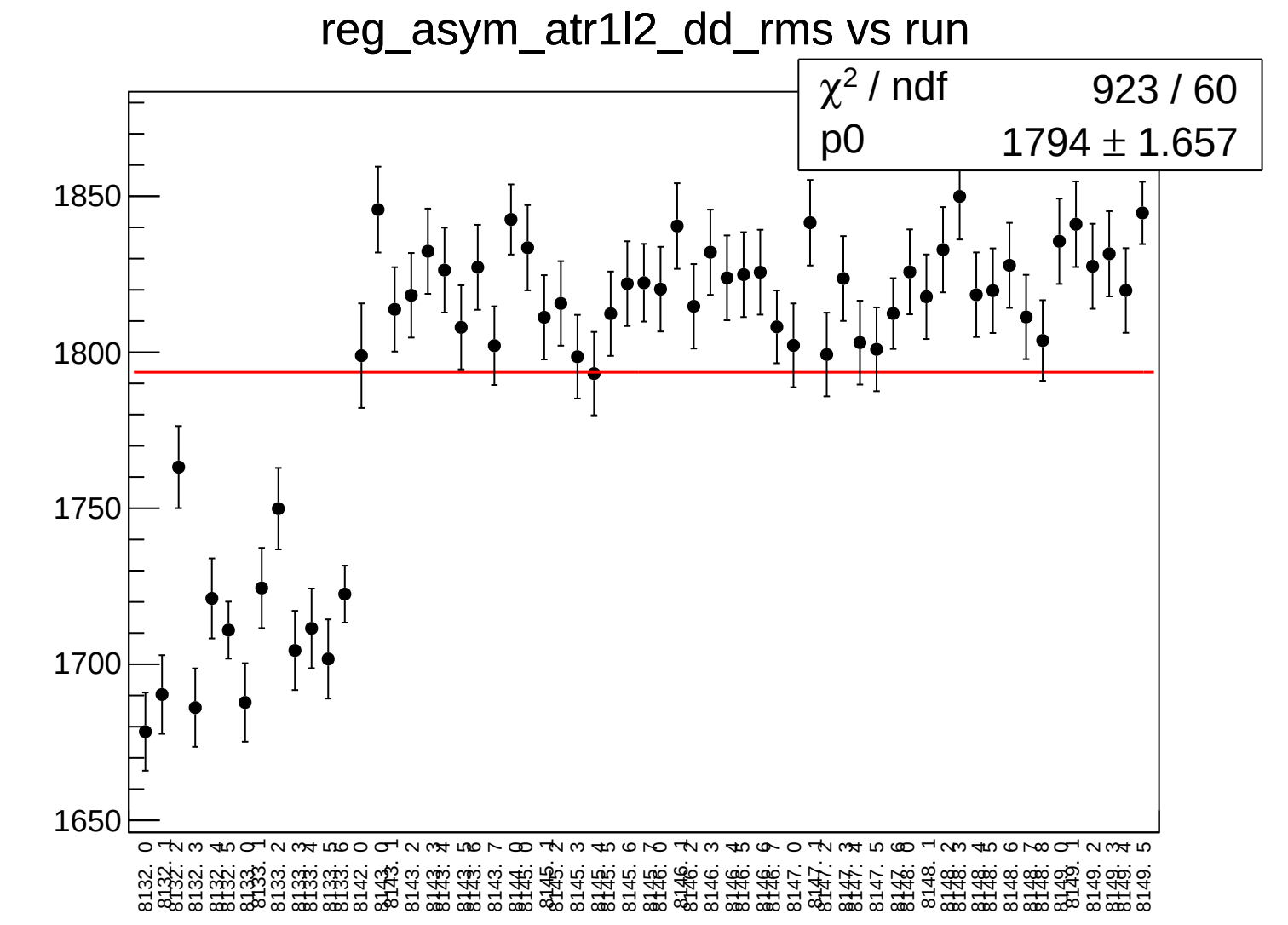

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 77.04 / 60
p0 −2659 ± 6830
pull
Entries 61
Mean 89.42
Std Dev 56.89

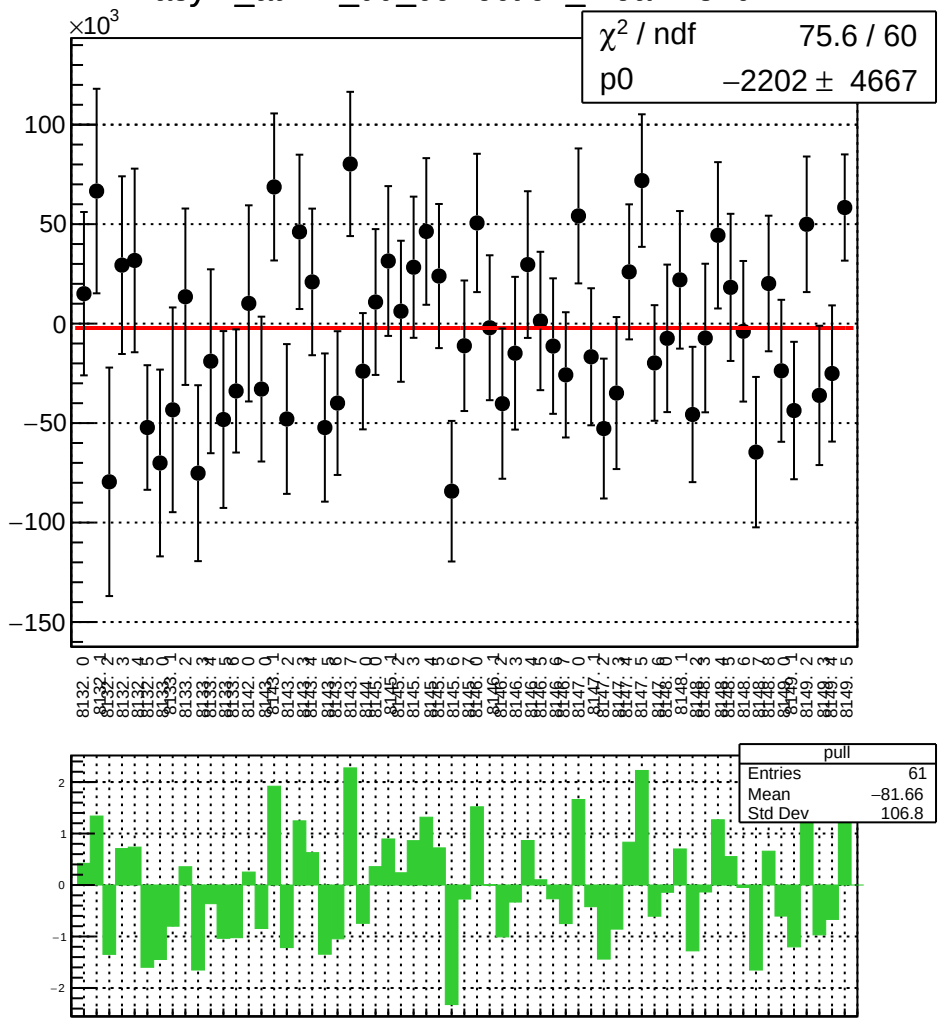

pull1D
Entries 61
Mean 0.04048
Std Dev 1.123

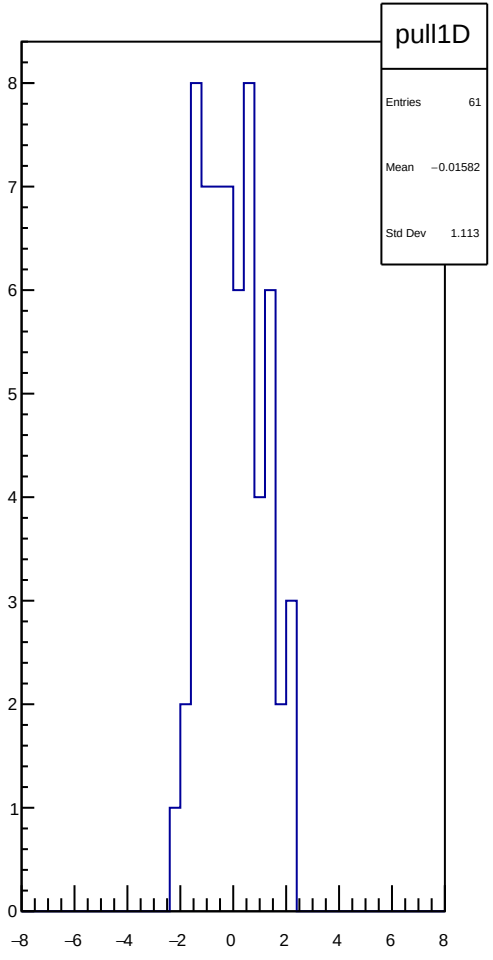

asym_atr1l2_avg_rms vs run
χ² / ndf 2.896e+04 / 60
p0 5164 ± 4.83
6500
6000
5500
5000
4500
4000

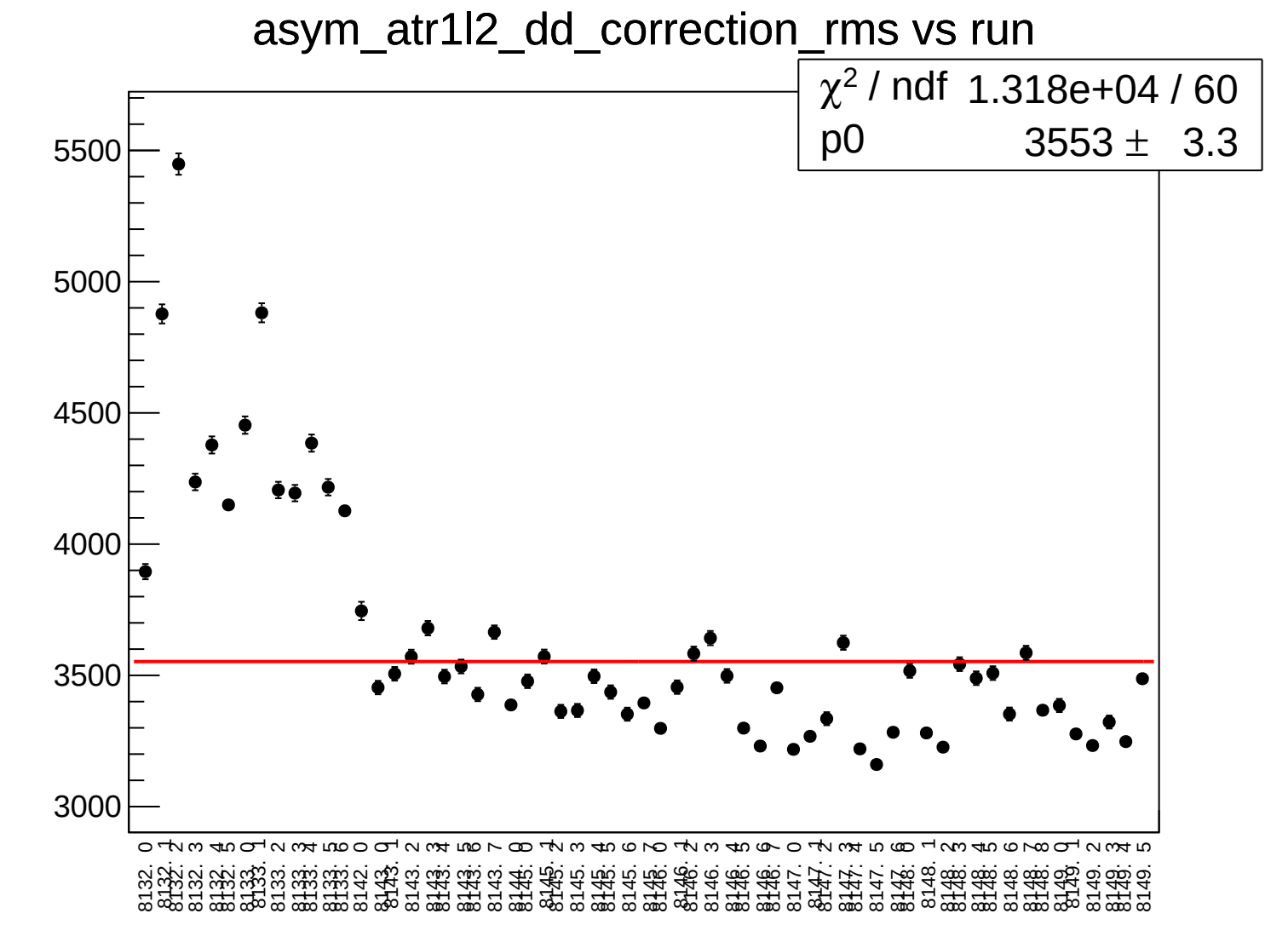

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 51.34 / 60
p0 −1740 ± 2344
pull
Entries 61
Mean −3.13
Std Dev 31.64

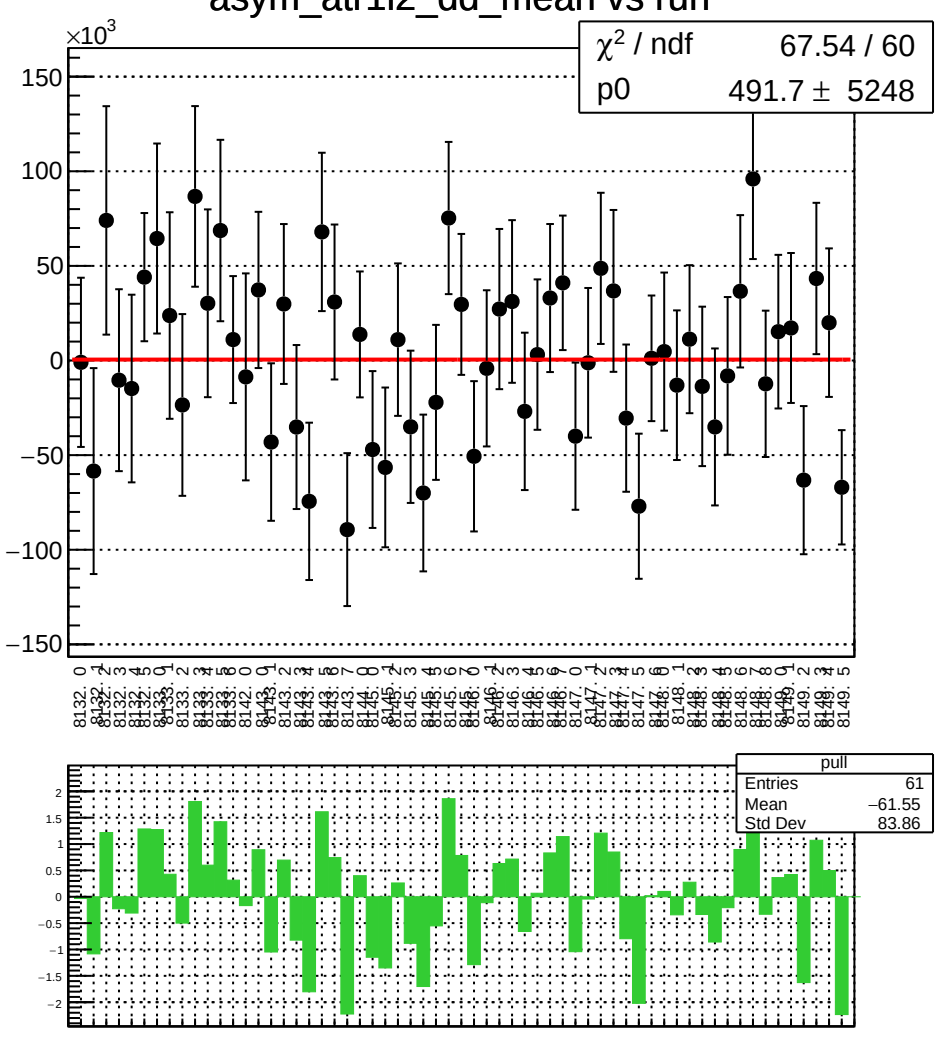

pull1D
Entries 61
Mean 0.01431
Std Dev 0.9173

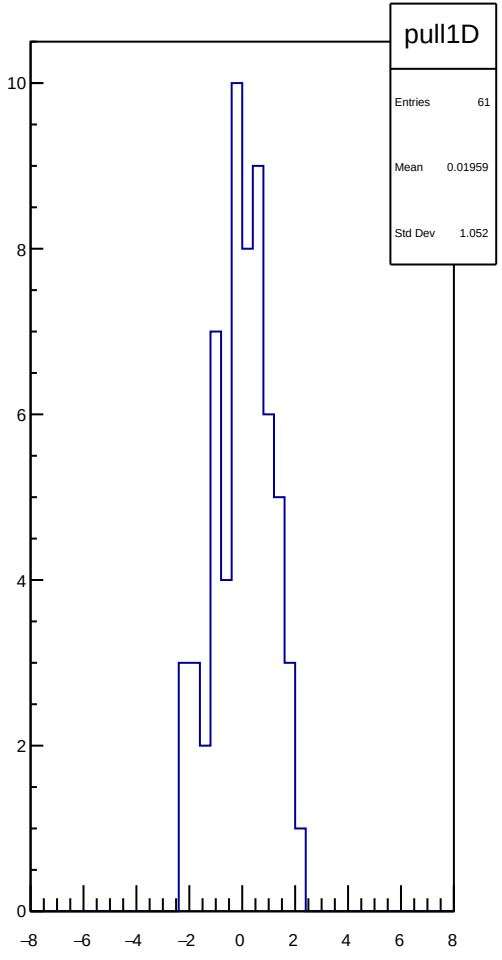

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 923 / 60
p0 1794 ± 1.657
1850
1800
1750
1700
1650

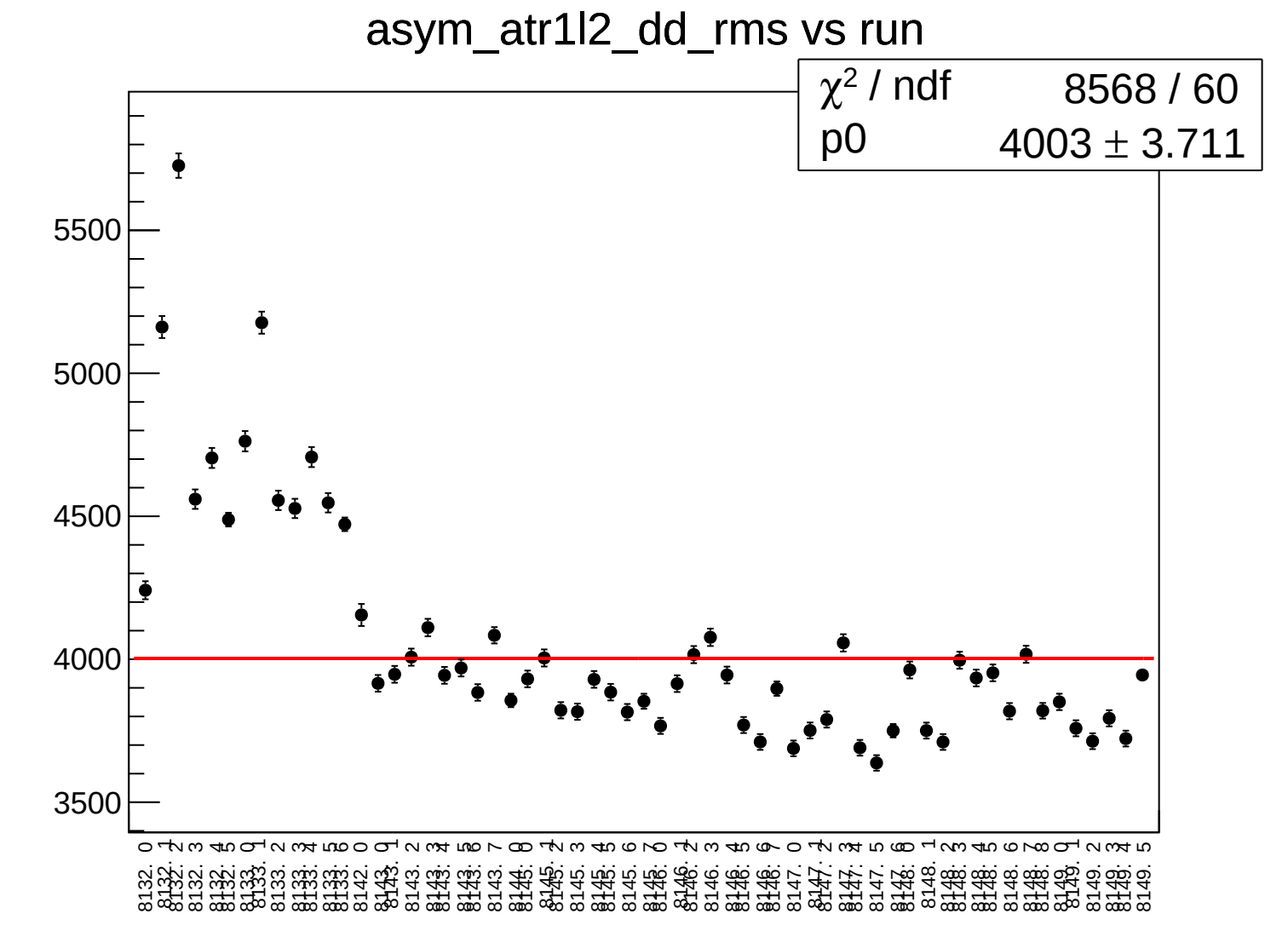

asym_atr1l2_dd_correction_mean vs run
×10^3
χ² / ndf 75.6 / 60
p0 −2202 ± 4667
pull
Entries 61
Mean −81.66
Std Dev 106.8

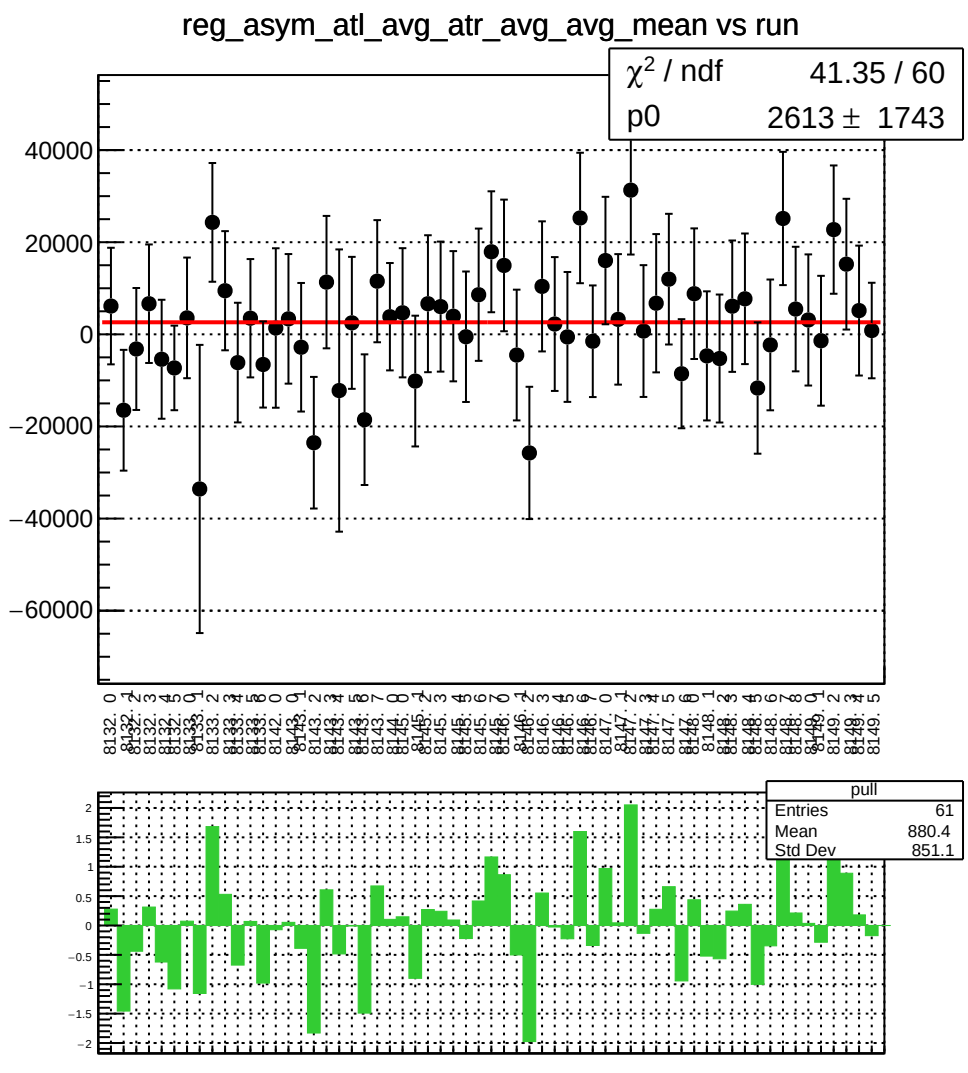

pull1D
Entries 61
Mean −0.01582
Std Dev 1.113

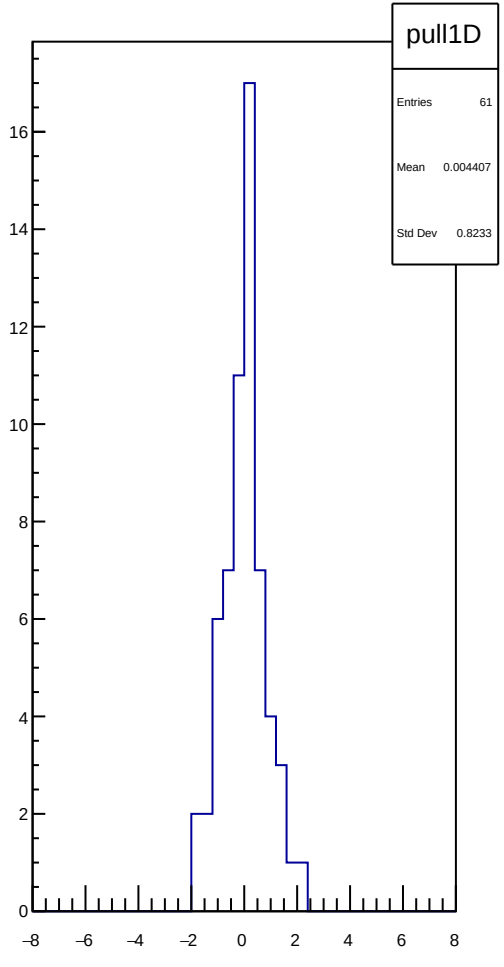

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 1.318e+04 / 60
p0 3553 ± 3.3
5500
5000
4500
4000
3500
3000

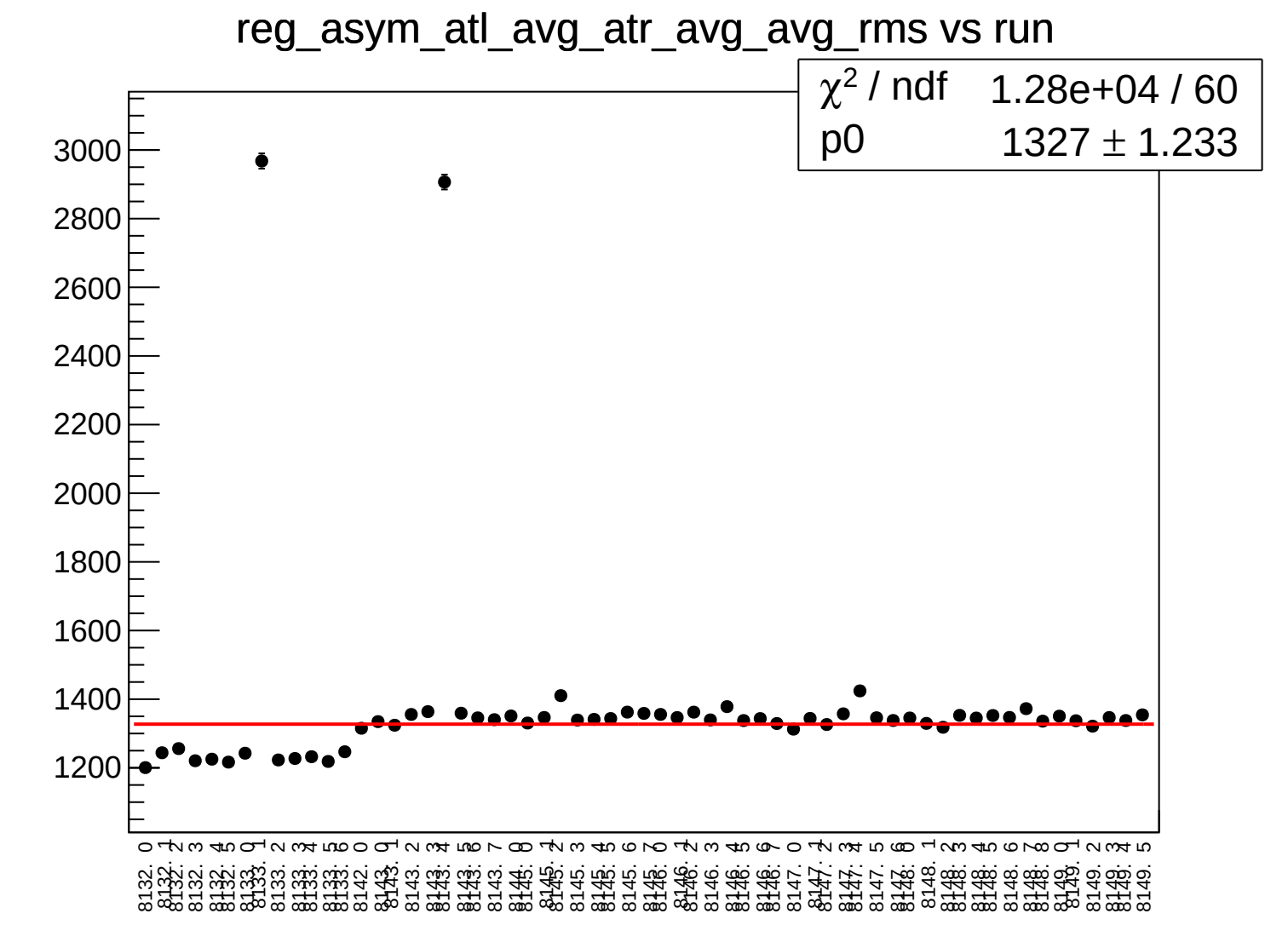

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 67.54 / 60
p0 491.7 ± 5248
150
100
50
0
−50
−100
−150
pull
Entries 61
Mean −61.55
Std Dev 83.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

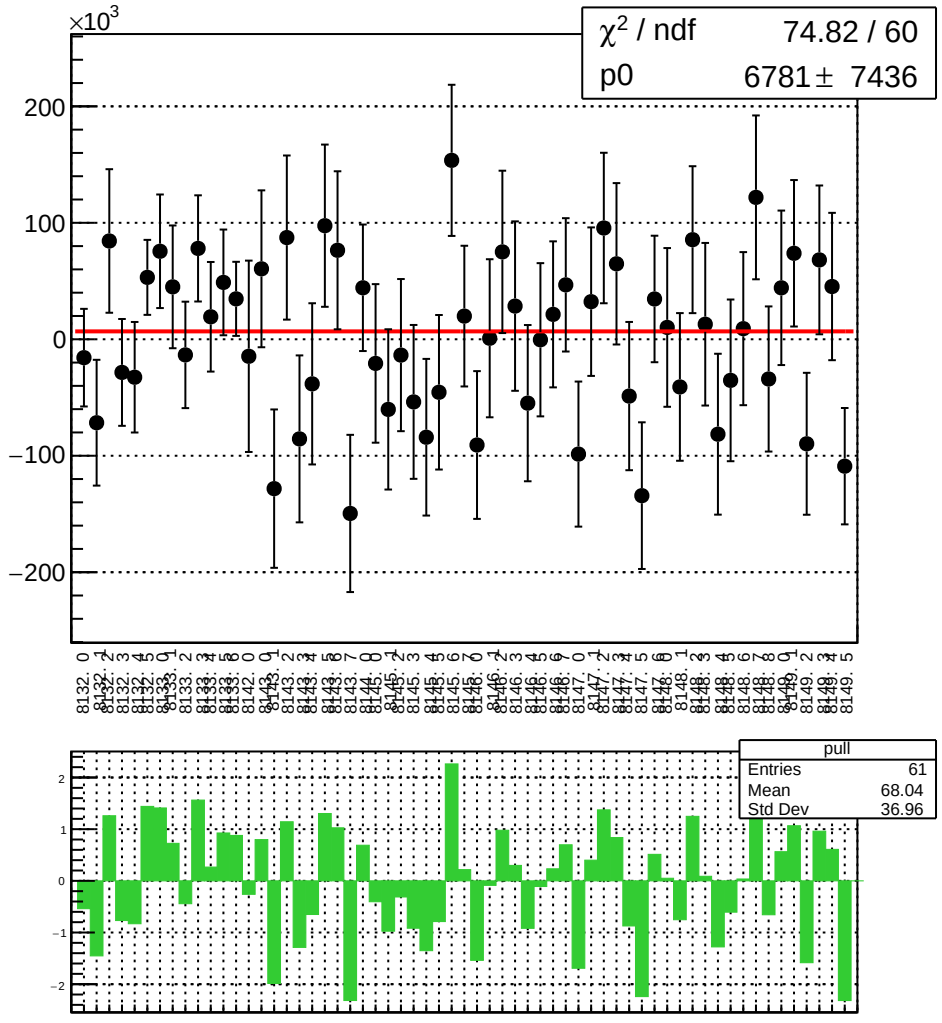

pull1D
Entries 61
Mean 0.01959
Std Dev 1.052
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

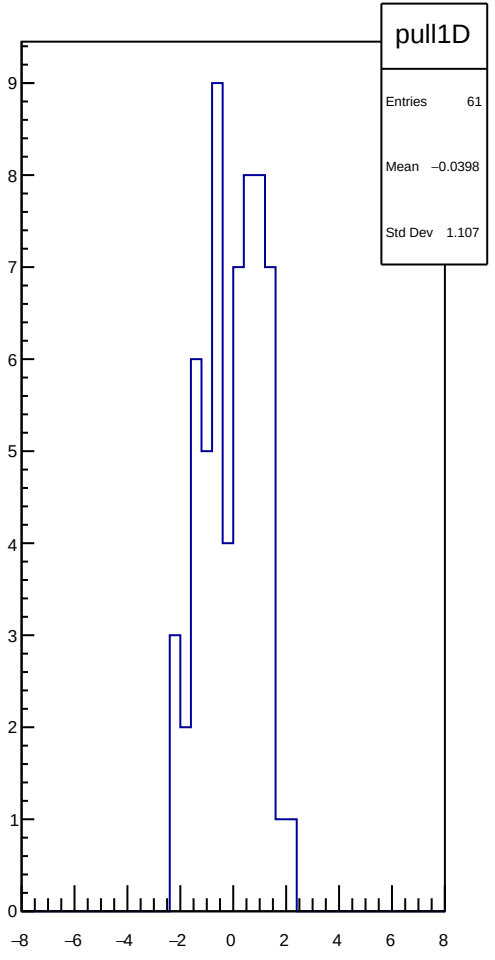

asym_atr1l2_dd_rms vs run
χ² / ndf 8568 / 60
p0 4003 ± 3.711
5500
5000
4500
4000
3500

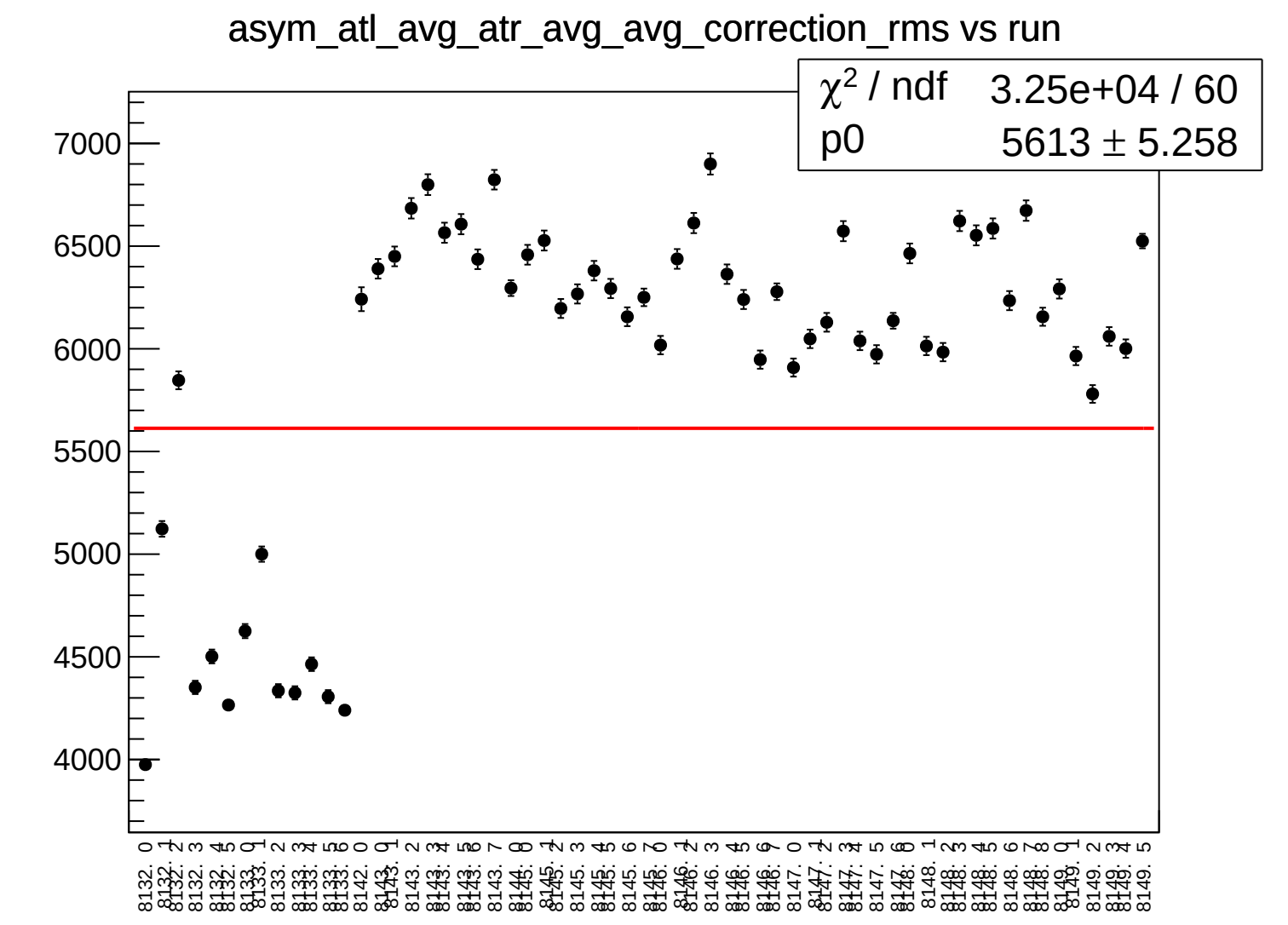

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 41.35 / 60
p0 2613 ± 1743
40000
20000
0
−20000
−40000
−60000
pull
Entries 61
Mean 880.4
Std Dev 851.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

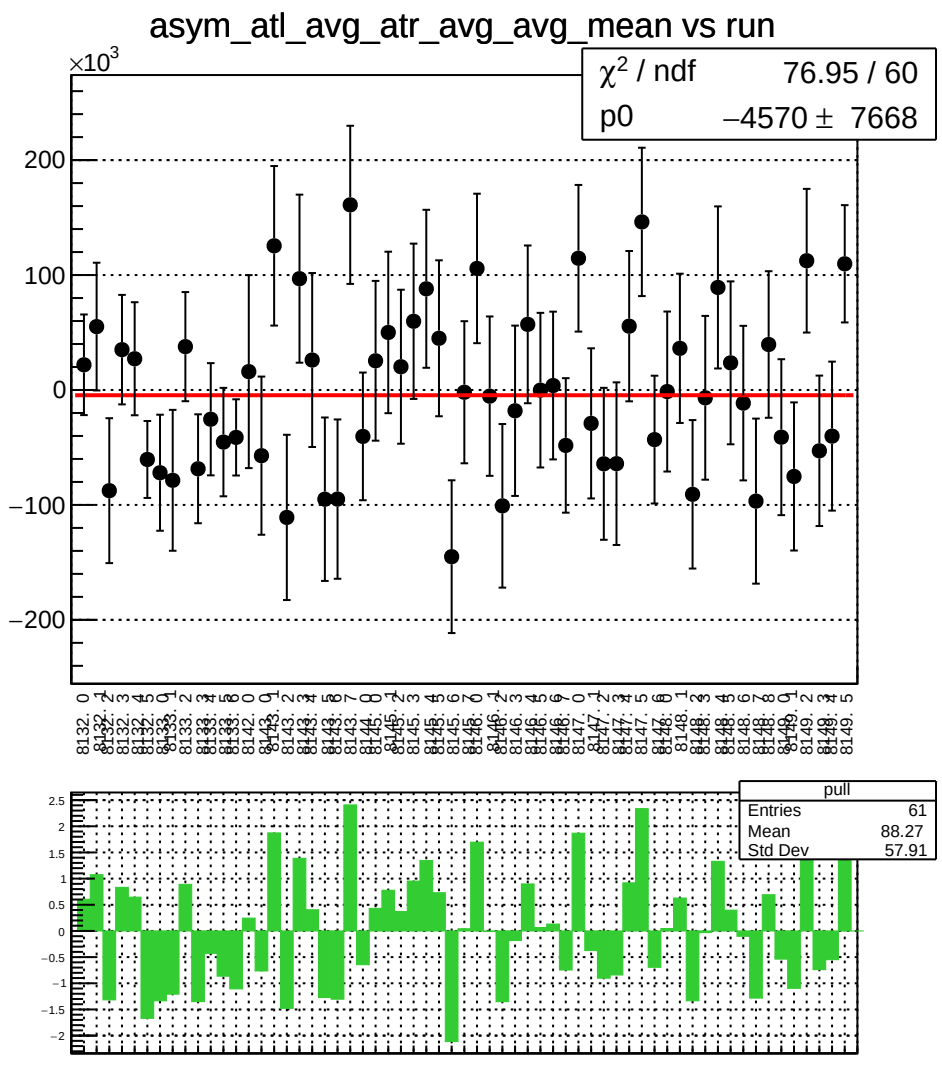

pull1D
Entries 61
Mean 0.004407
Std Dev 0.8233
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

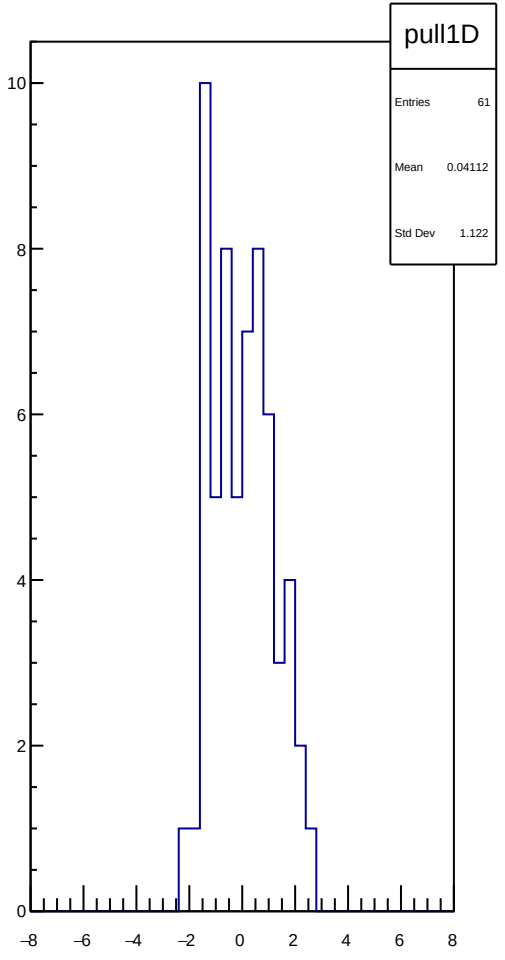

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.28e+04 / 60
p0 1327 ± 1.233
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

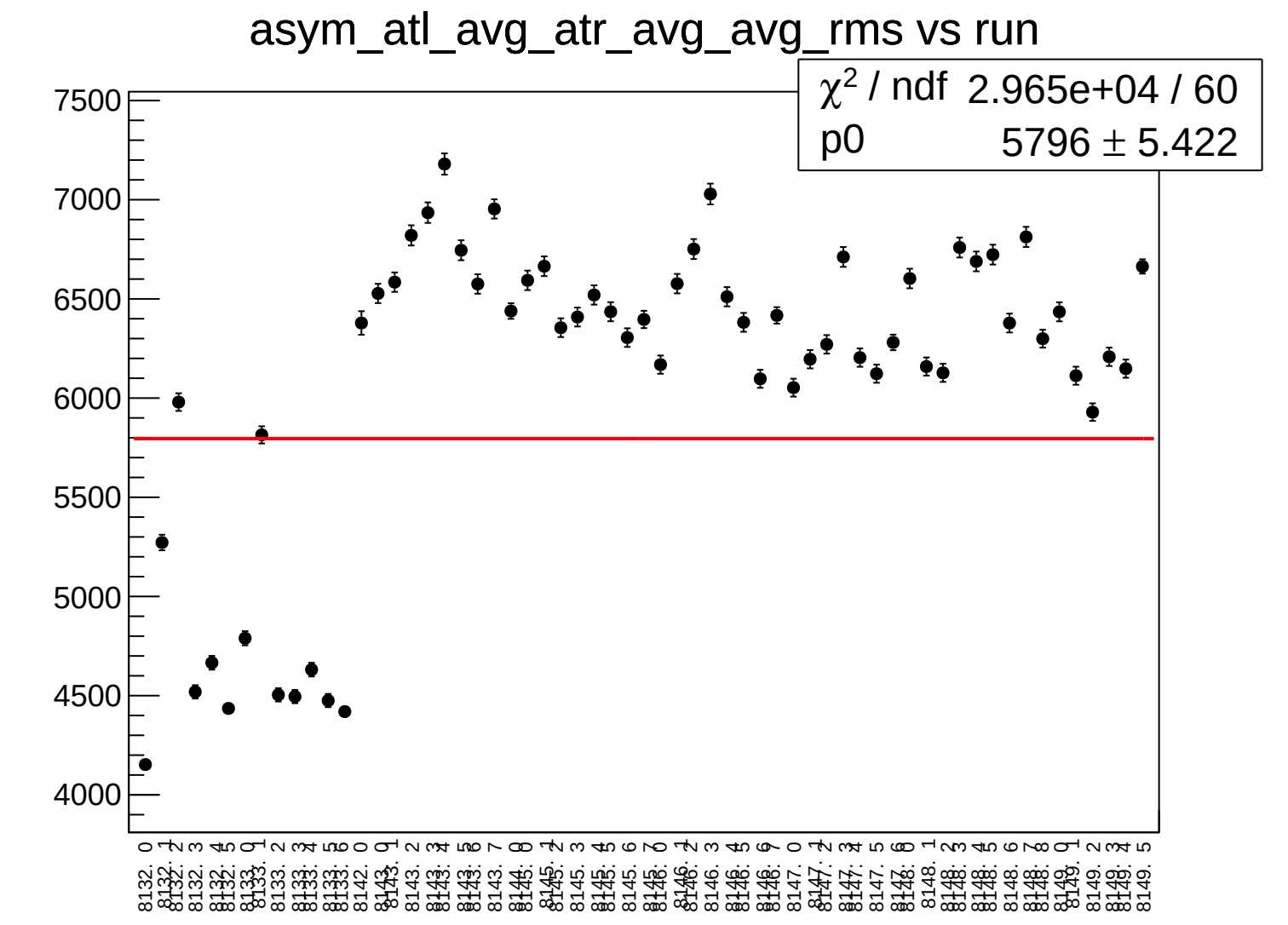

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 74.82 / 60
p0 6781 ± 7436
pull
Entries 61
Mean 68.04
Std Dev 36.96

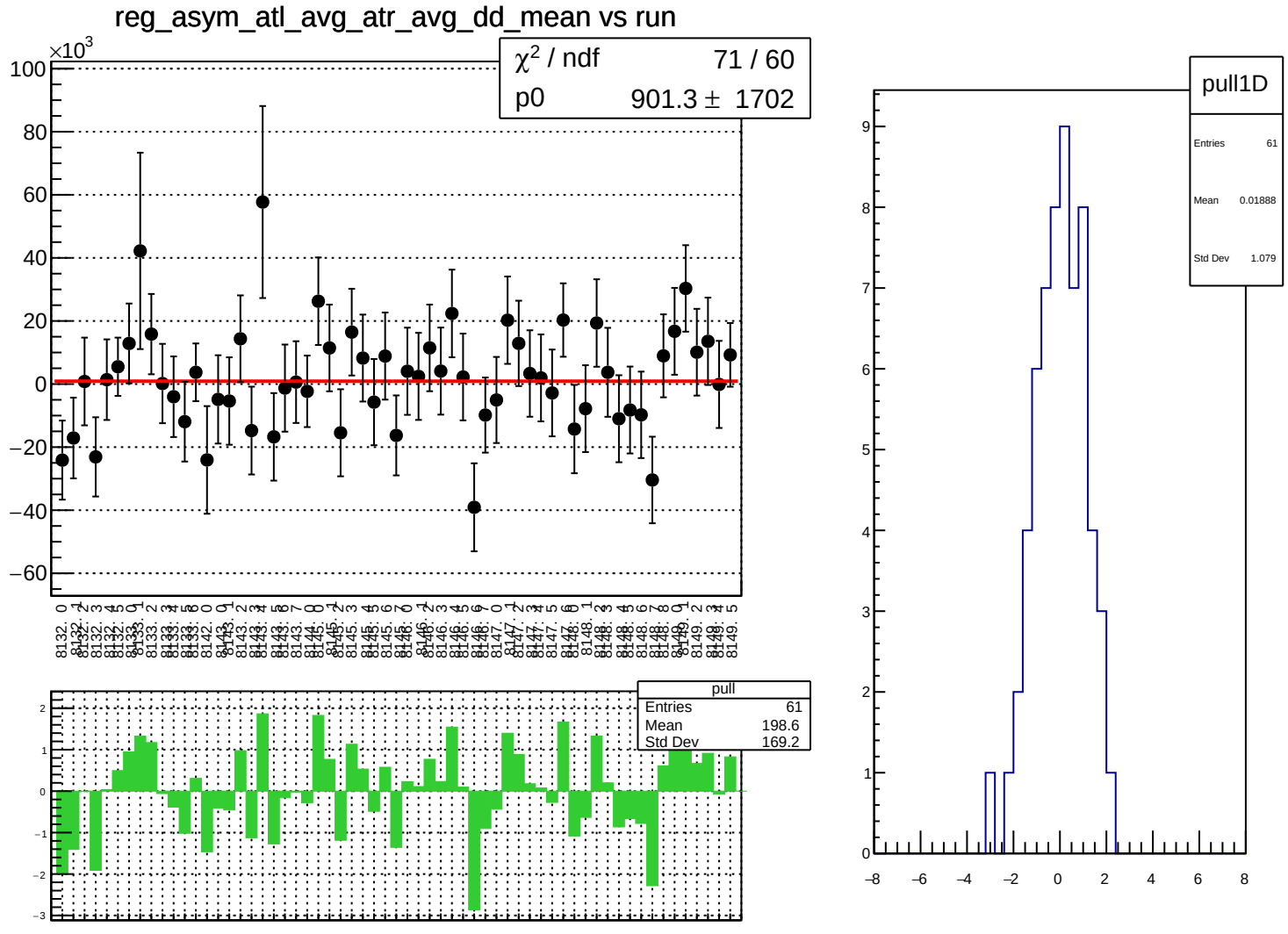

pull1D
Entries 61
Mean −0.0398
Std Dev 1.107

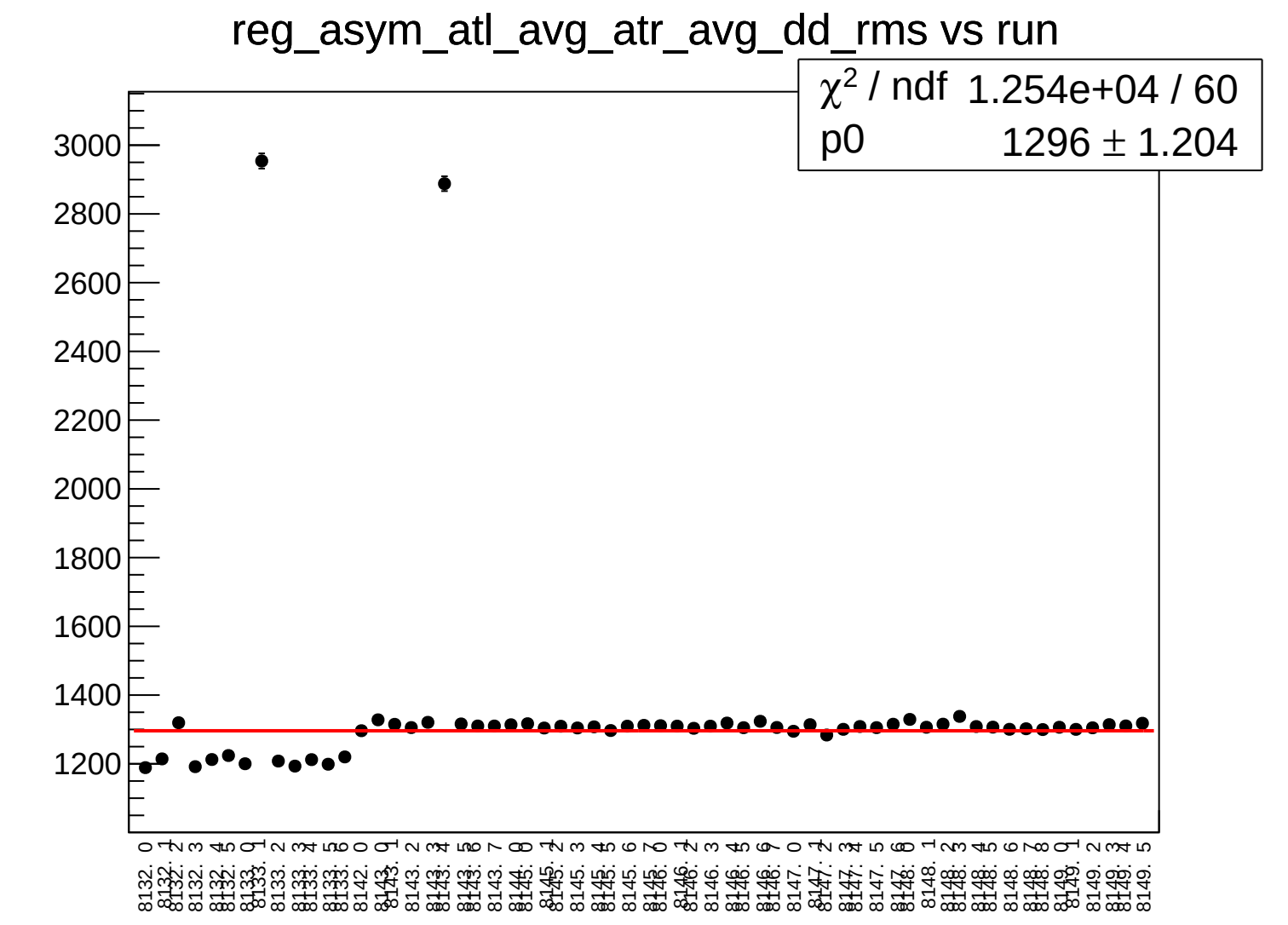

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 3.25e+04 / 60
p0 5613 ± 5.258
7000
6500
6000
5500
5000
4500
4000

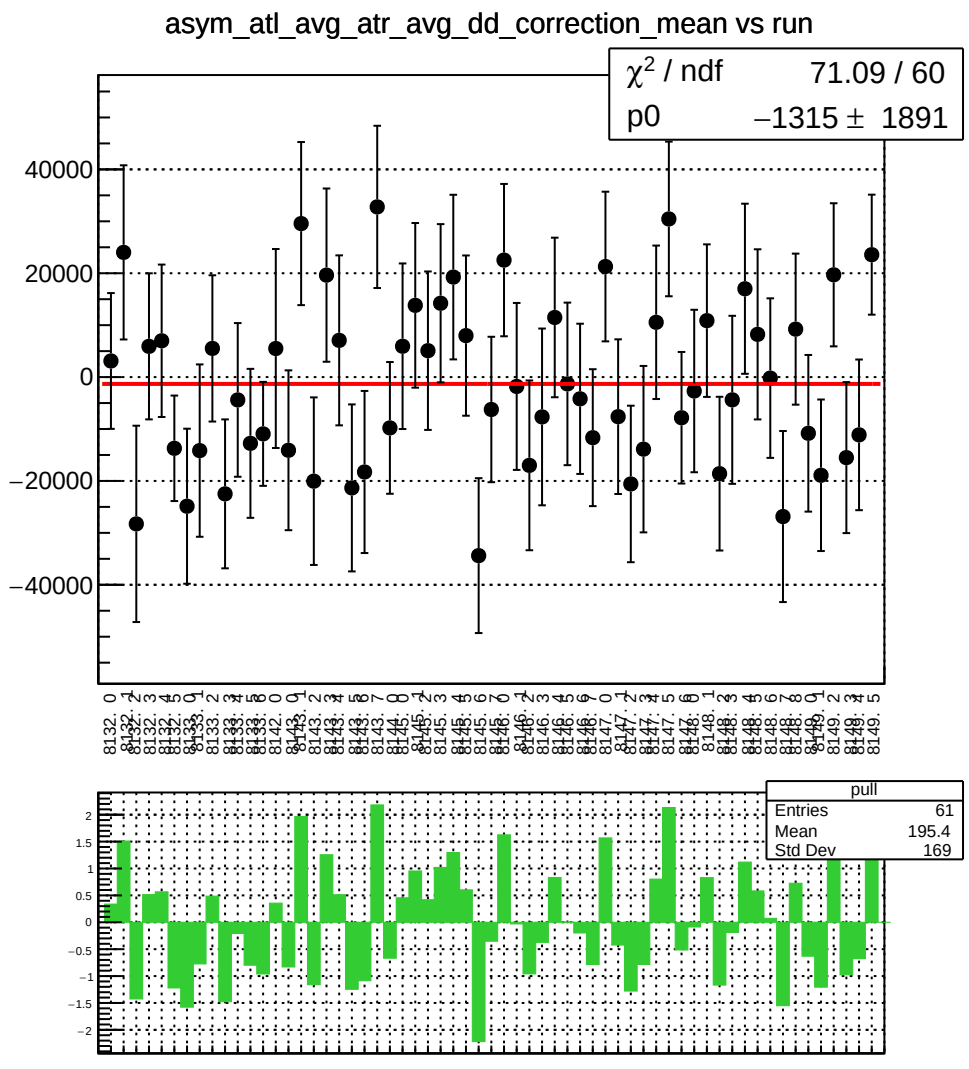

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 76.95 / 60
p0 −4570 ± 7668
200
100
0
−100
−200
pull
Entries 61
Mean 88.27
Std Dev 57.91
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

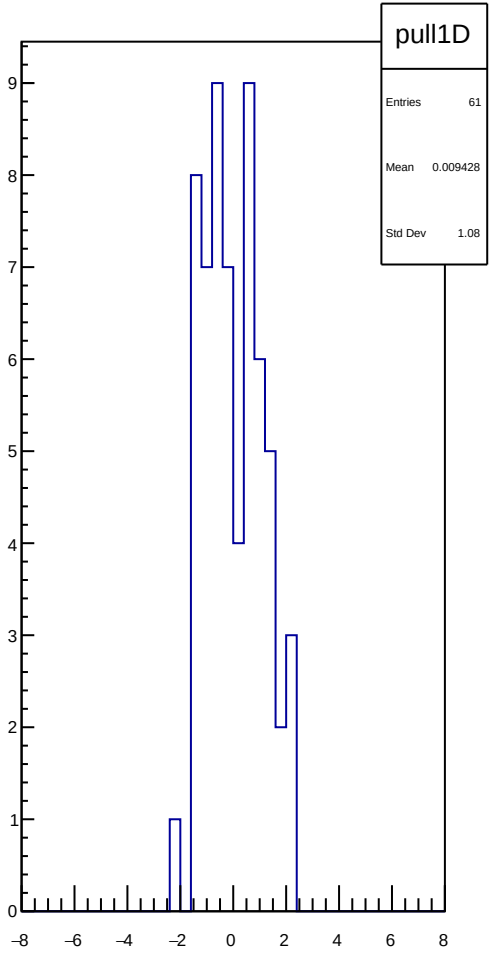

pull1D
Entries 61
Mean 0.04112
Std Dev 1.122
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

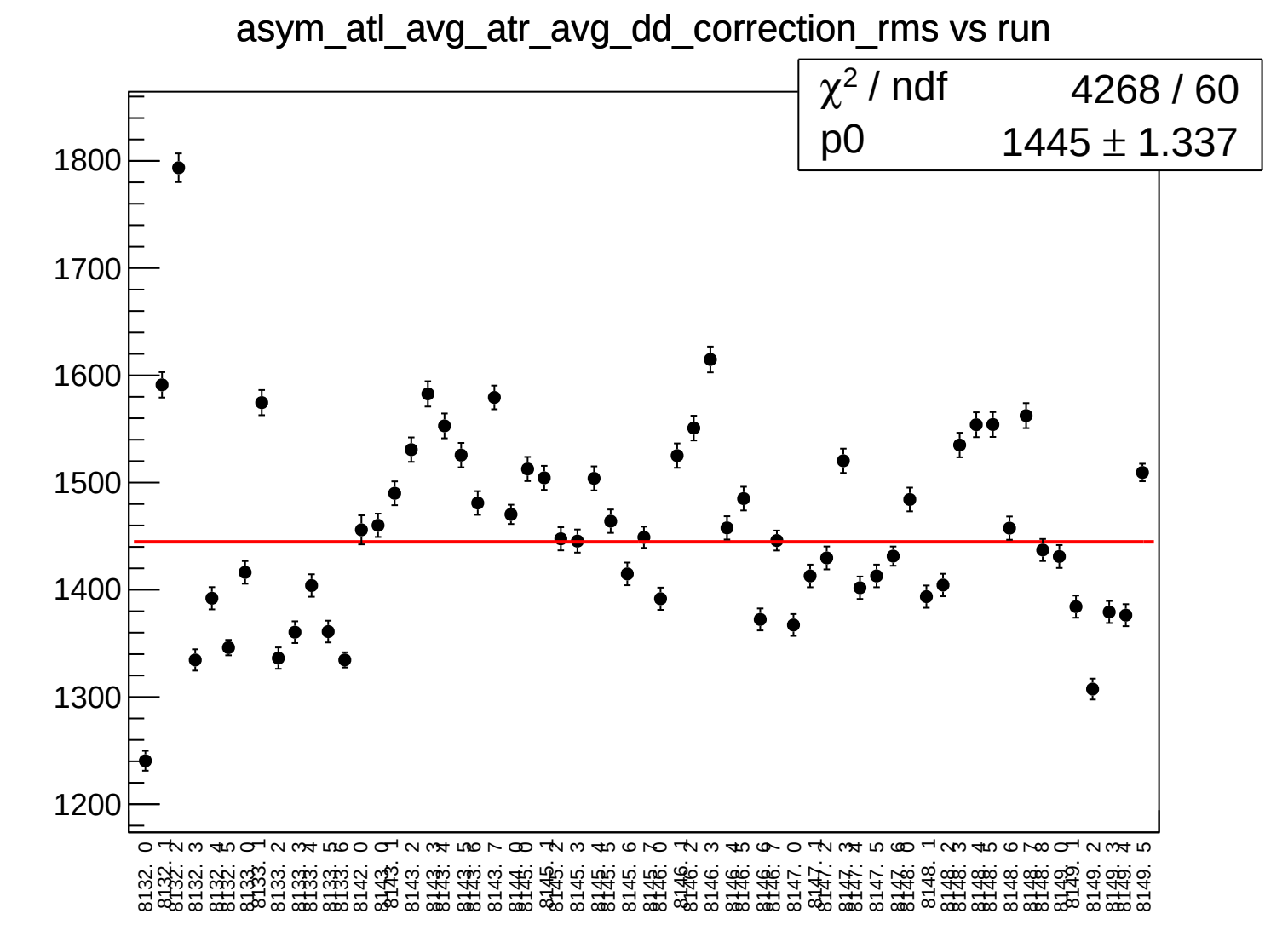

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2.965e+04 / 60
p0 5796 ± 5.422
7500
7000
6500
6000
5500
5000
4500
4000

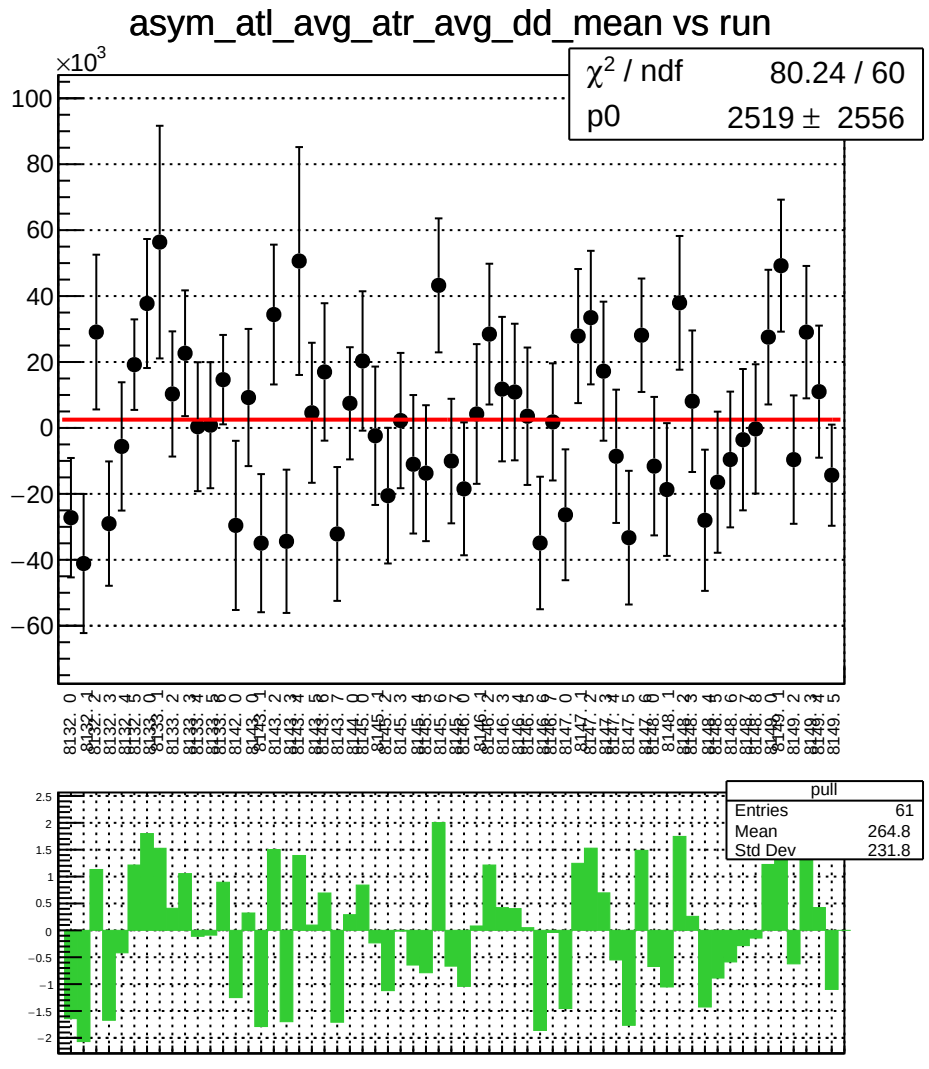

reg_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 71 / 60
p0 901.3 ± 1702
pull
Entries 61
Mean 198.6
Std Dev 169.2
pull1D
Entries 61
Mean 0.01888
Std Dev 1.079

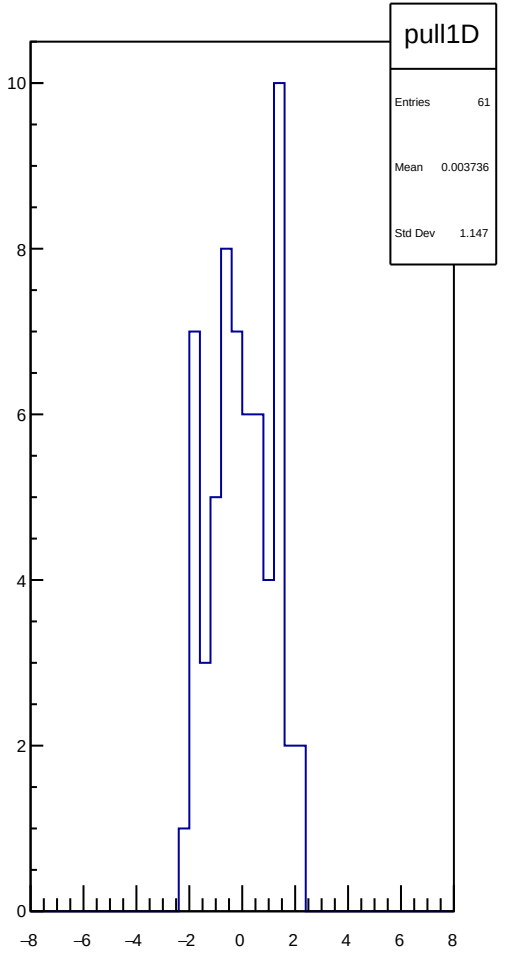

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.254e+04 / 60
p0 1296 ± 1.204
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

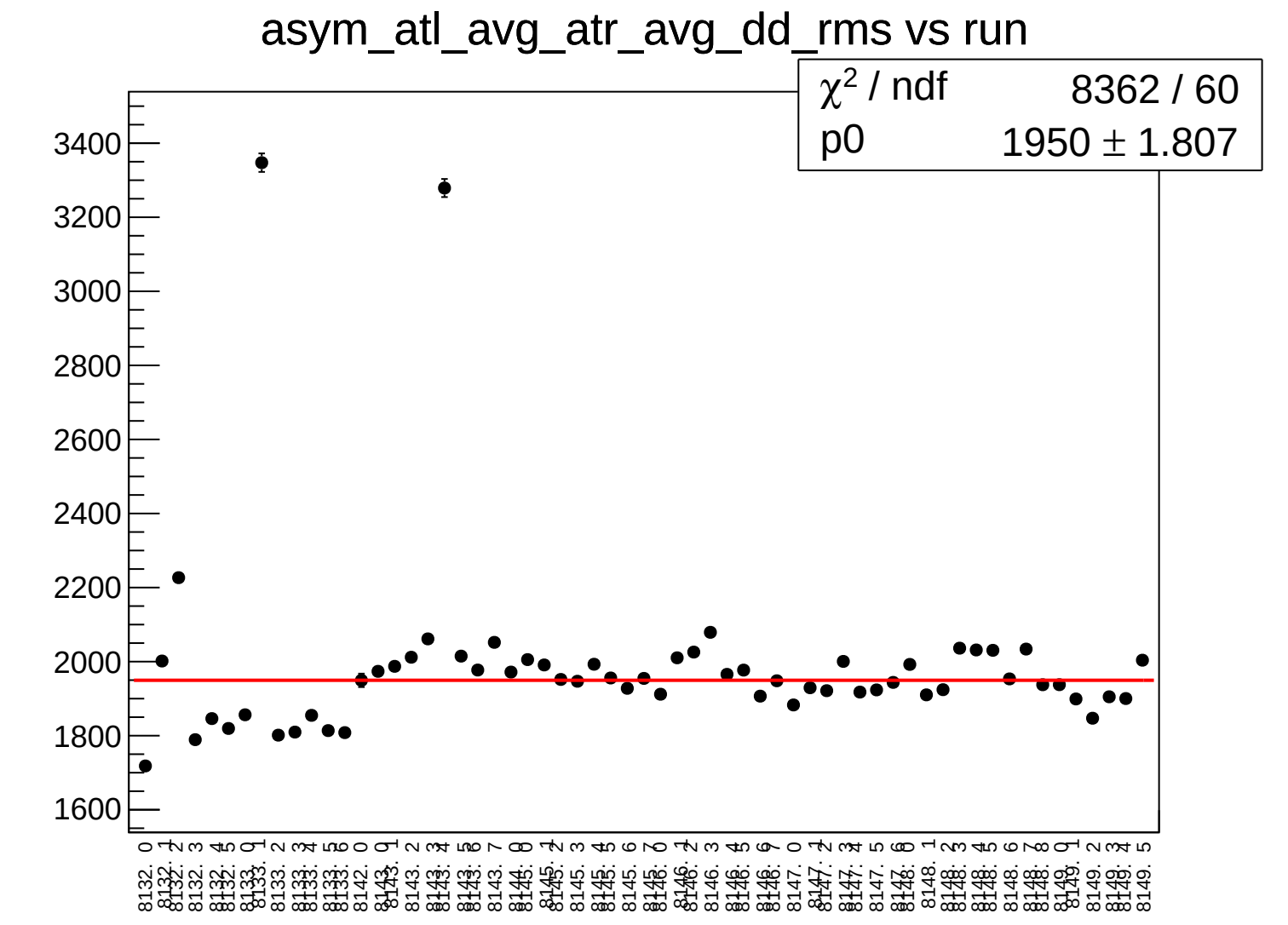

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 71.09 / 60
p0 −1315 ± 1891
40000
20000
0
−20000
−40000
pull
Entries 61
Mean 195.4
Std Dev 169
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

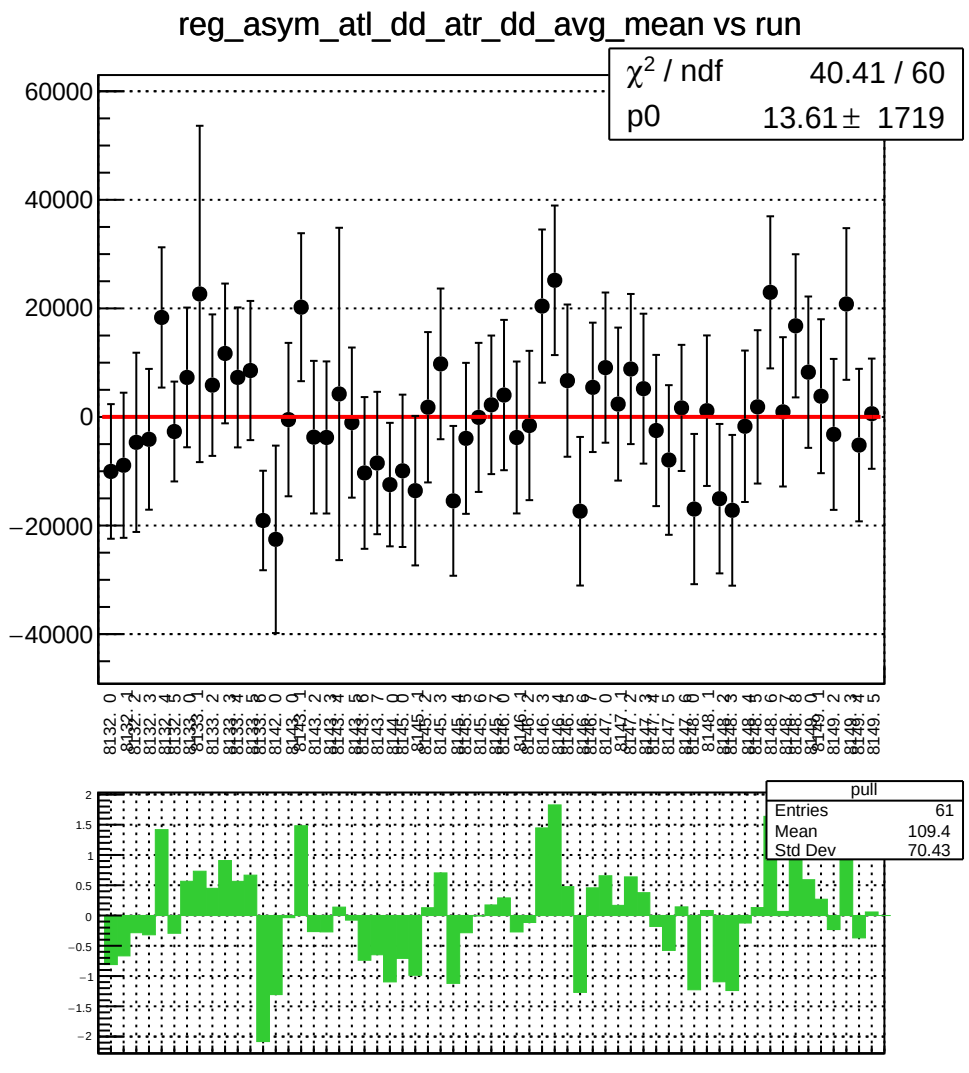

pull1D
Entries 61
Mean 0.009428
Std Dev 1.08
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

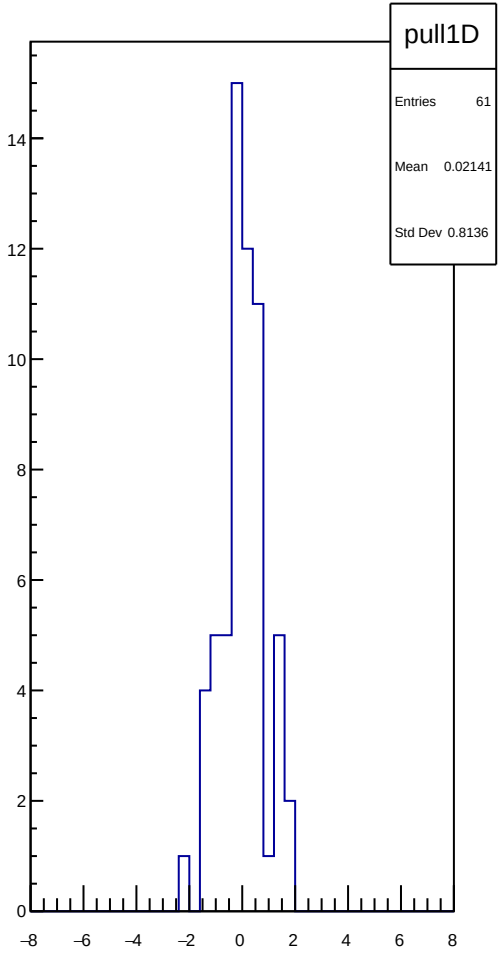

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 4268 / 60
p0 1445 ± 1.337
1800
1700
1600
1500
1400
1300
1200

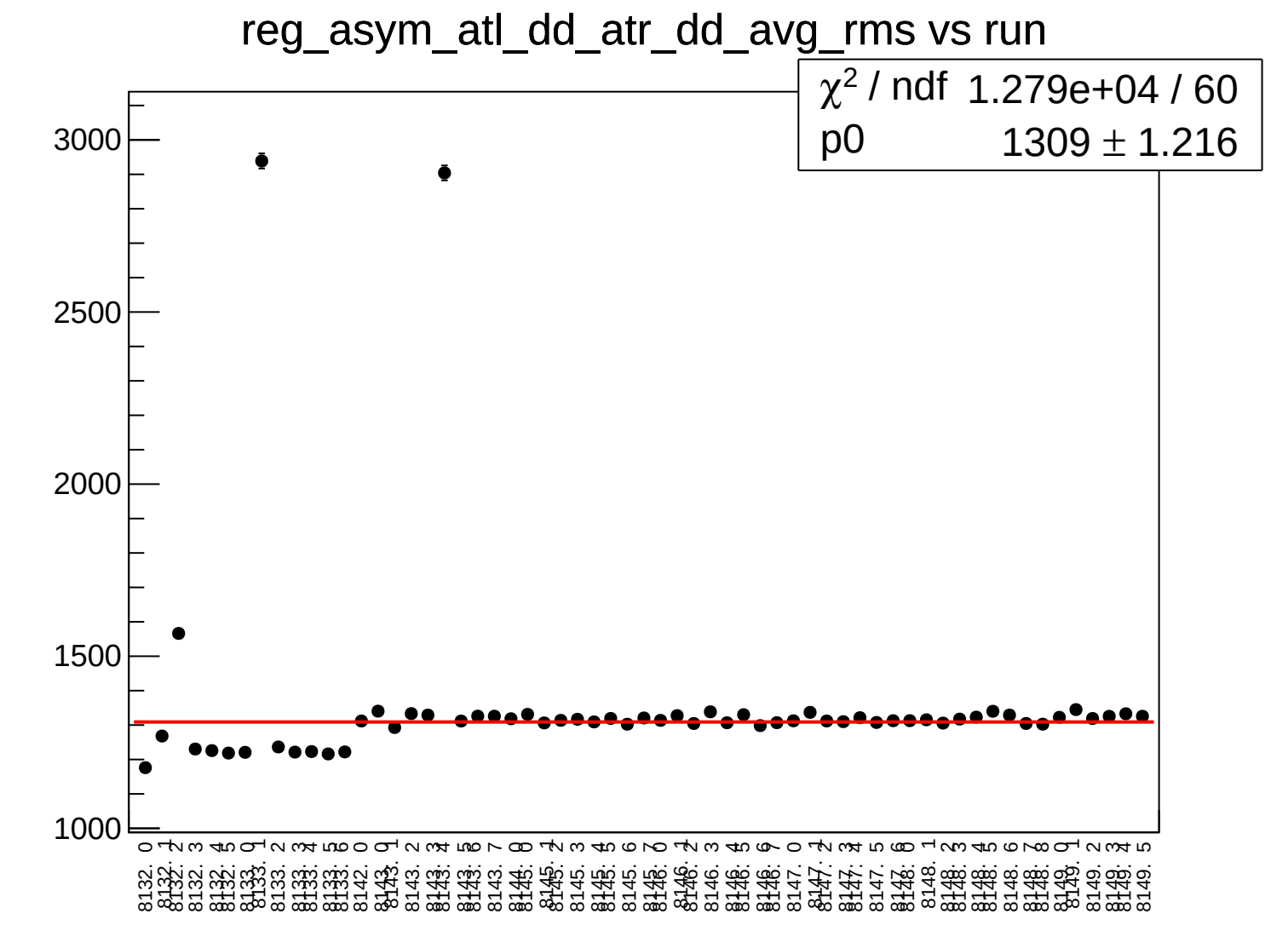

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ^2 / ndf 80.24 / 60
p0 2519 ± 2556
pull
Entries 61
Mean 264.8
Std Dev 231.8

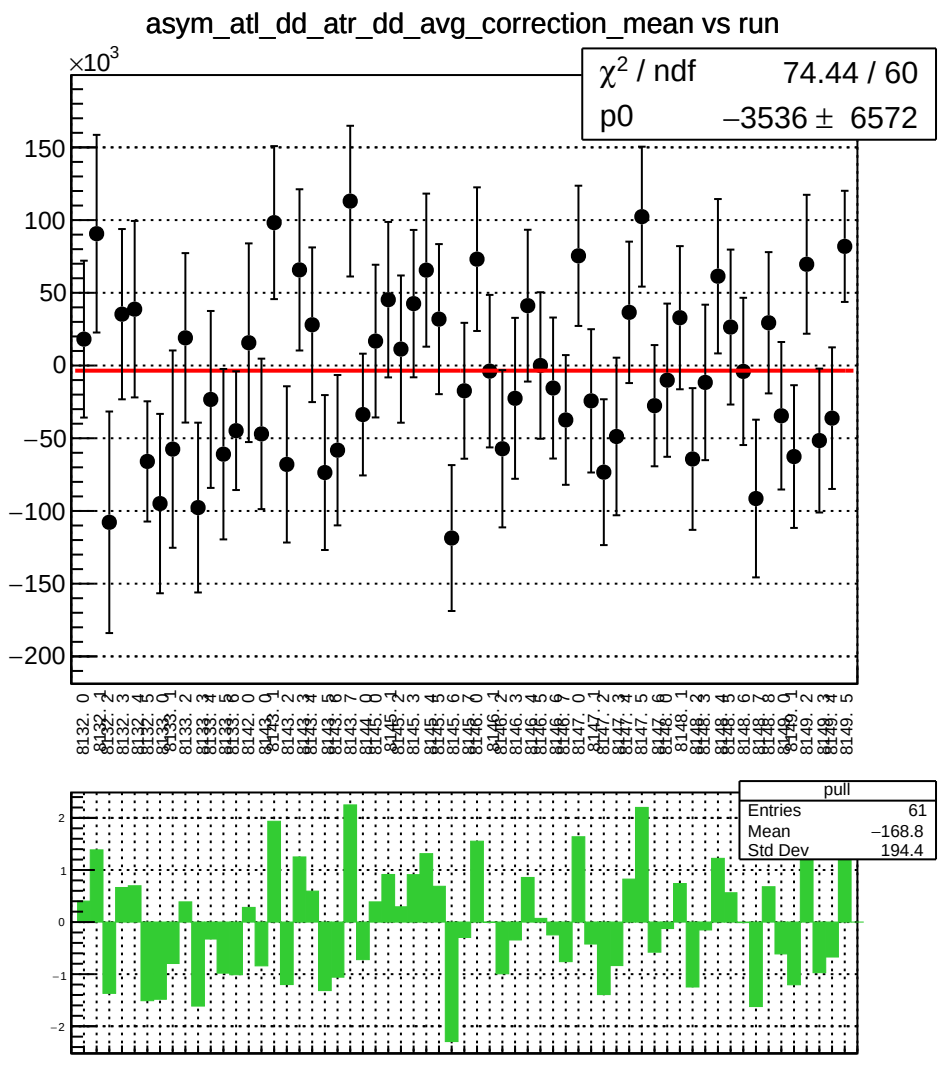

pull1D
Entries 61
Mean 0.003736
Std Dev 1.147

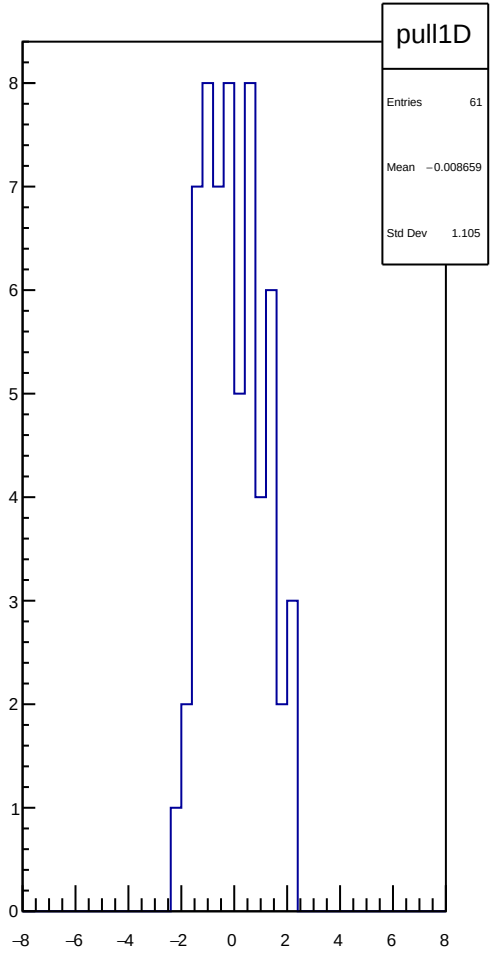

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 8362 / 60
p0 1950 ± 1.807
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

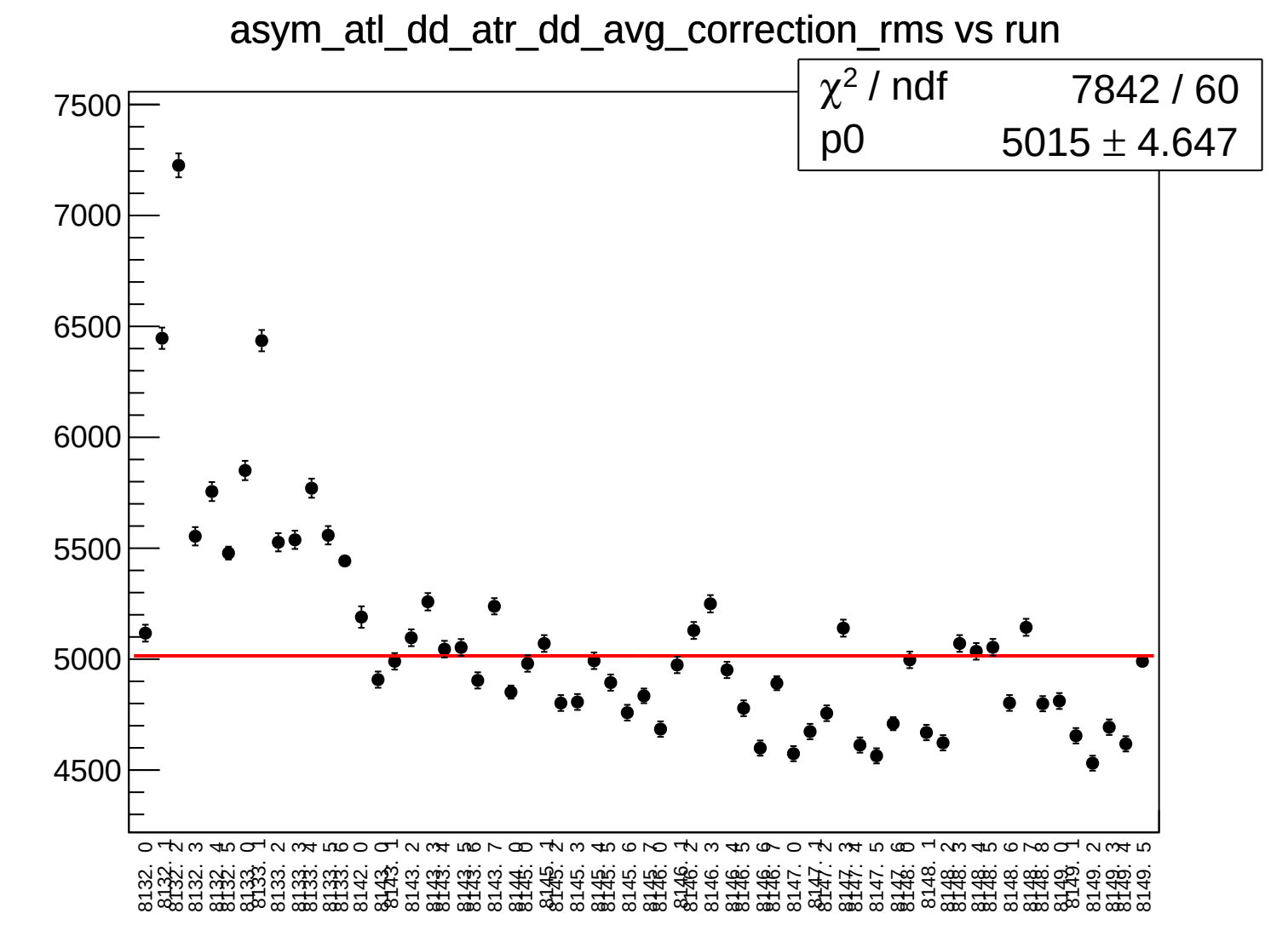

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 40.41 / 60
p0 13.61 ± 1719
60000
40000
20000
0
−20000
−40000
pull
Entries 61
Mean 109.4
Std Dev 70.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

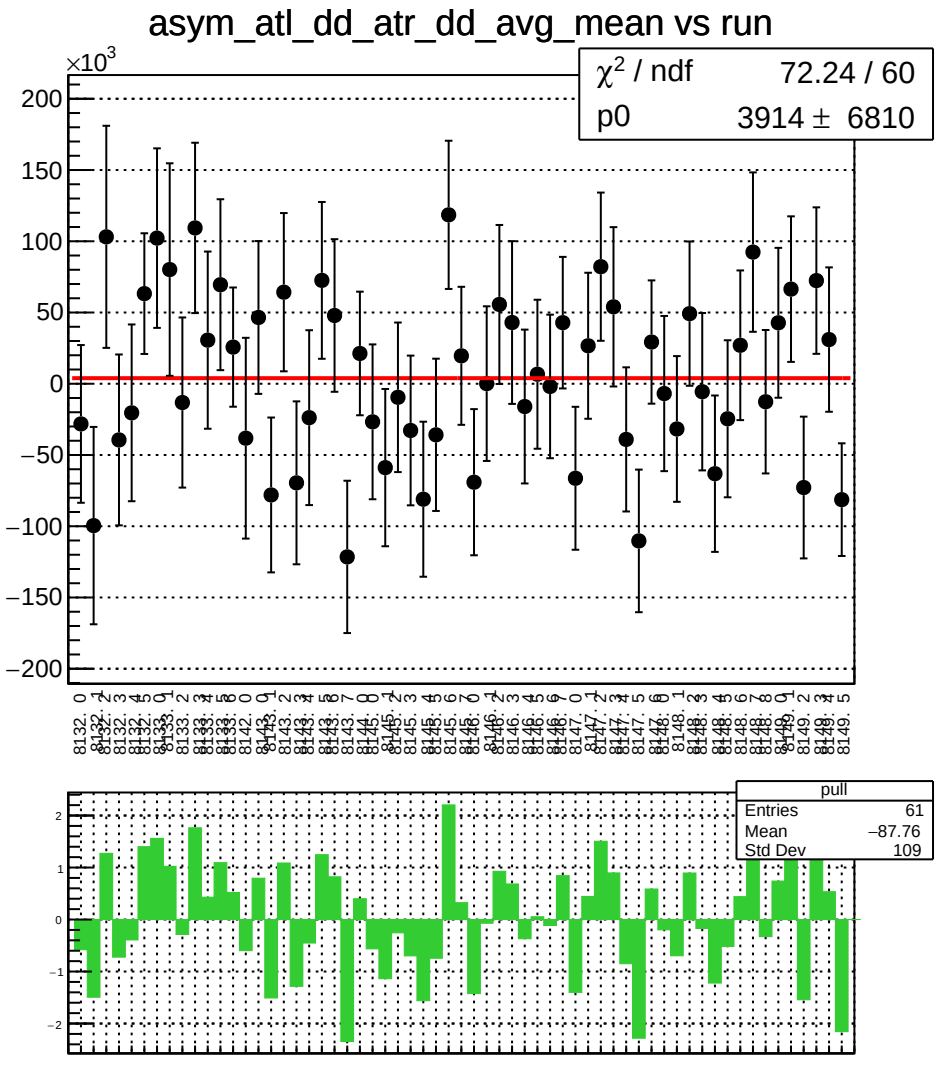

pull1D
Entries 61
Mean 0.02141
Std Dev 0.8136
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

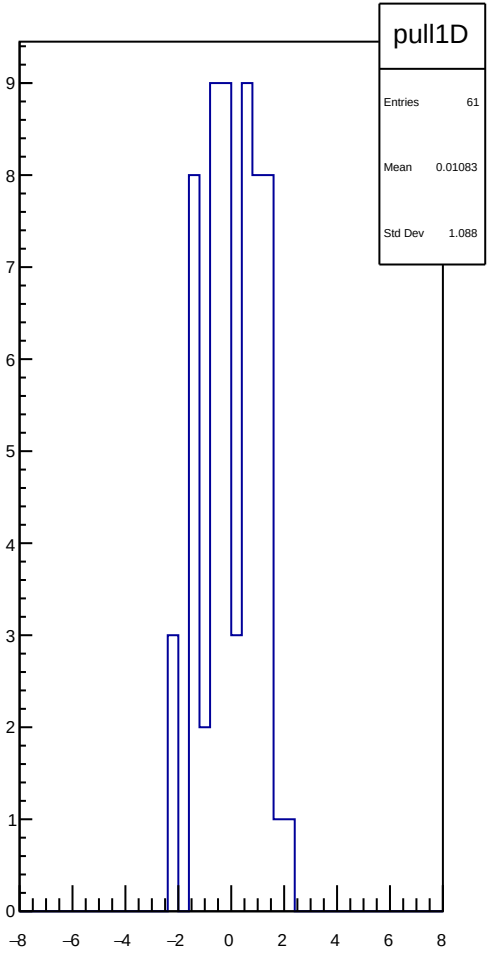

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.279e+04 / 60
p0 1309 ± 1.216
3000
2500
2000
1500
1000

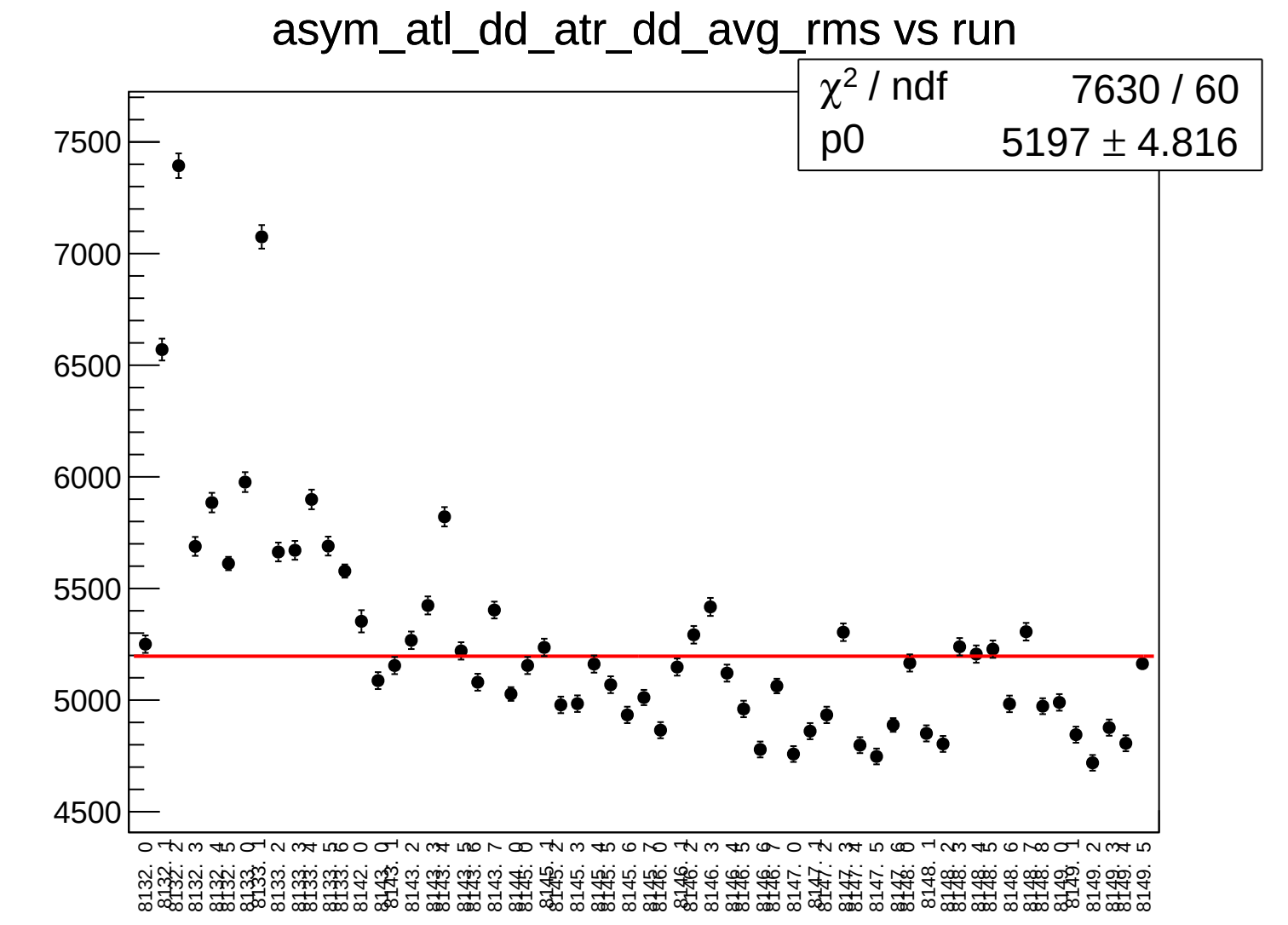

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 74.44 / 60
p0 −3536 ± 6572
150
100
50
0
−50
−100
−150
−200
pull
Entries 61
Mean −168.8
Std Dev 194.4
2
1
0
−1
−2

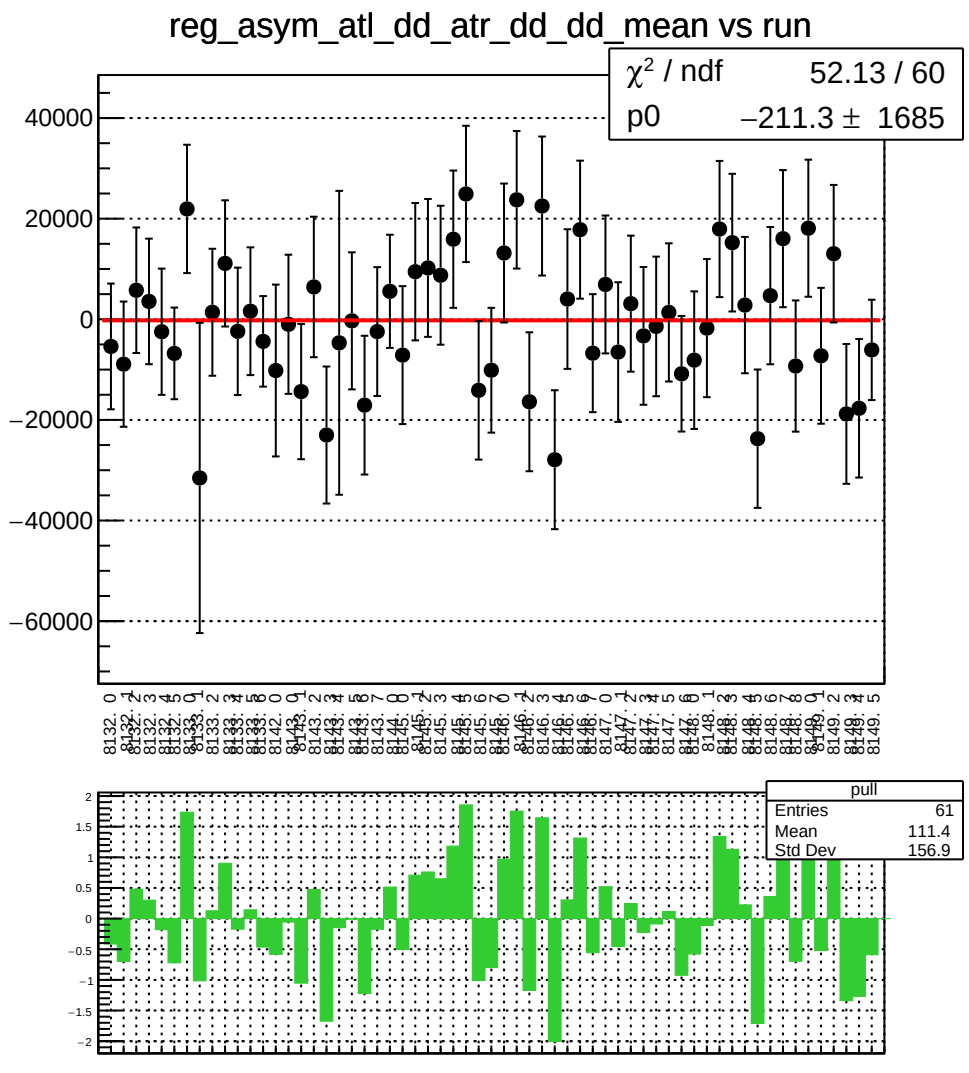

pull1D
Entries 61
Mean −0.008659
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

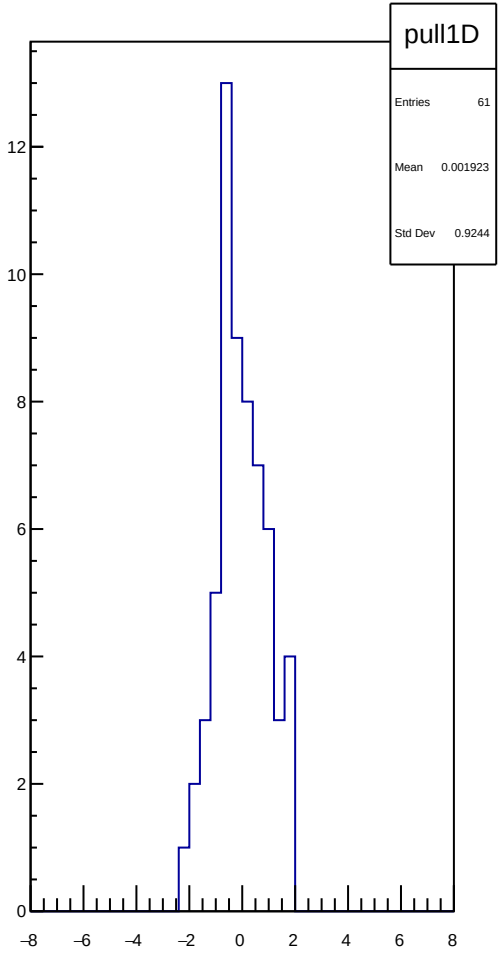

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 7842 / 60
p0 5015 ± 4.647
7500
7000
6500
6000
5500
5000
4500

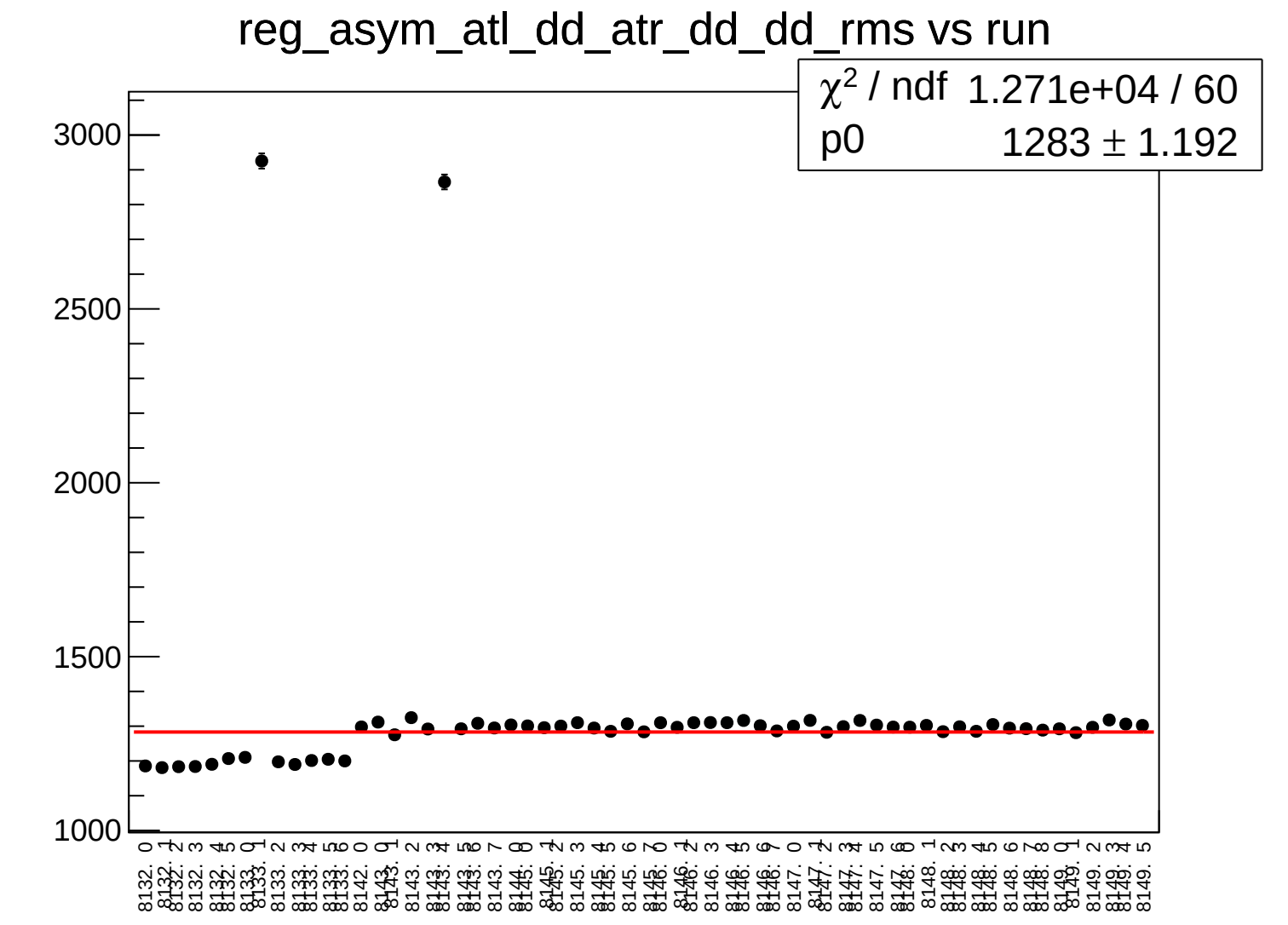

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 72.24 / 60
p0 3914 ± 6810
pull
Entries 61
Mean −87.76
Std Dev 109

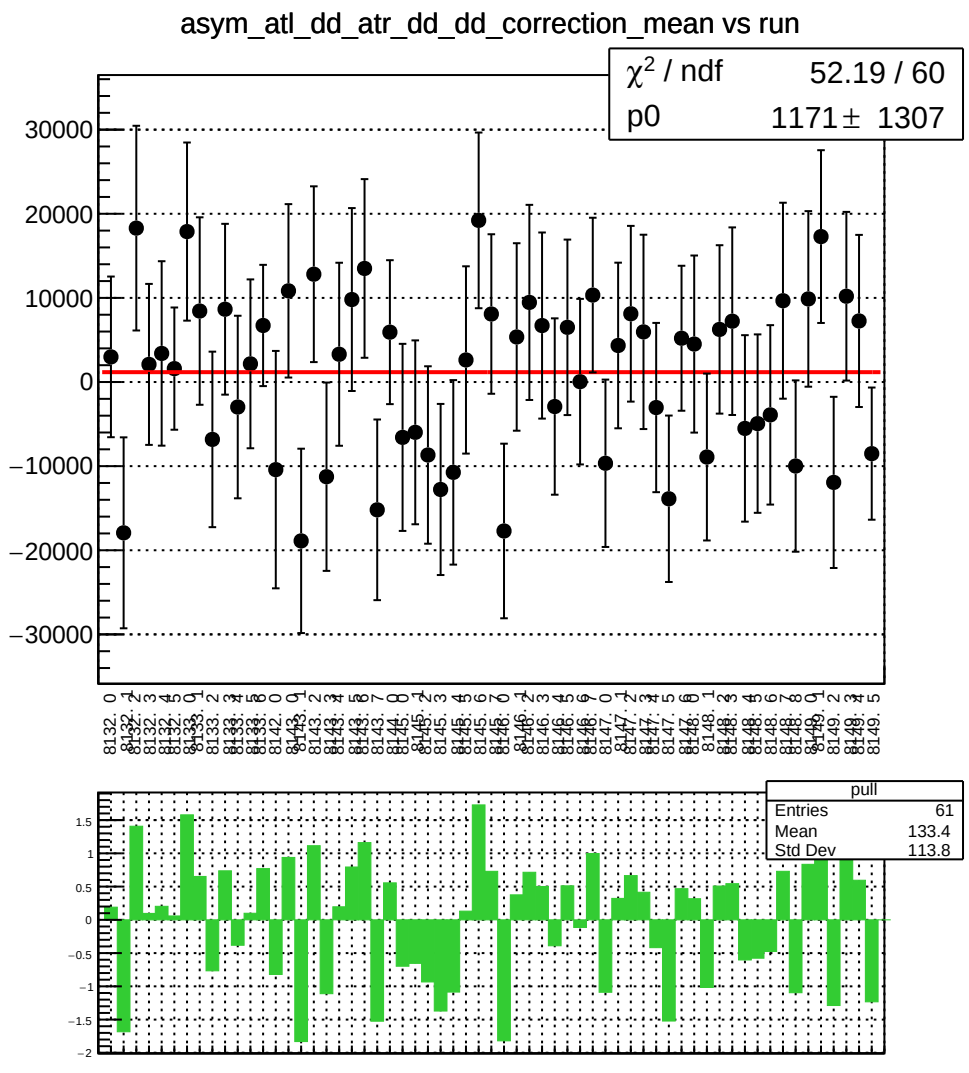

pull1D
Entries 61
Mean 0.01083
Std Dev 1.088

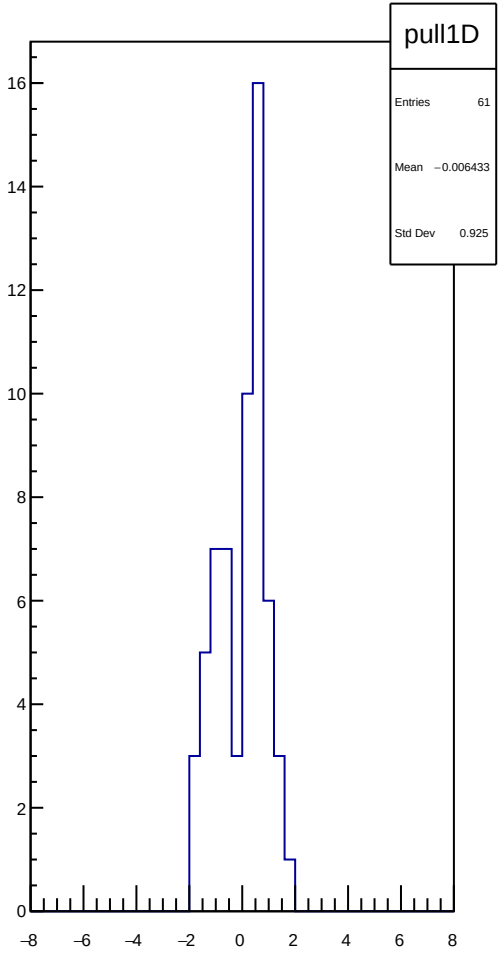

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 7630 / 60
p0 5197 ± 4.816
7500
7000
6500
6000
5500
5000
4500

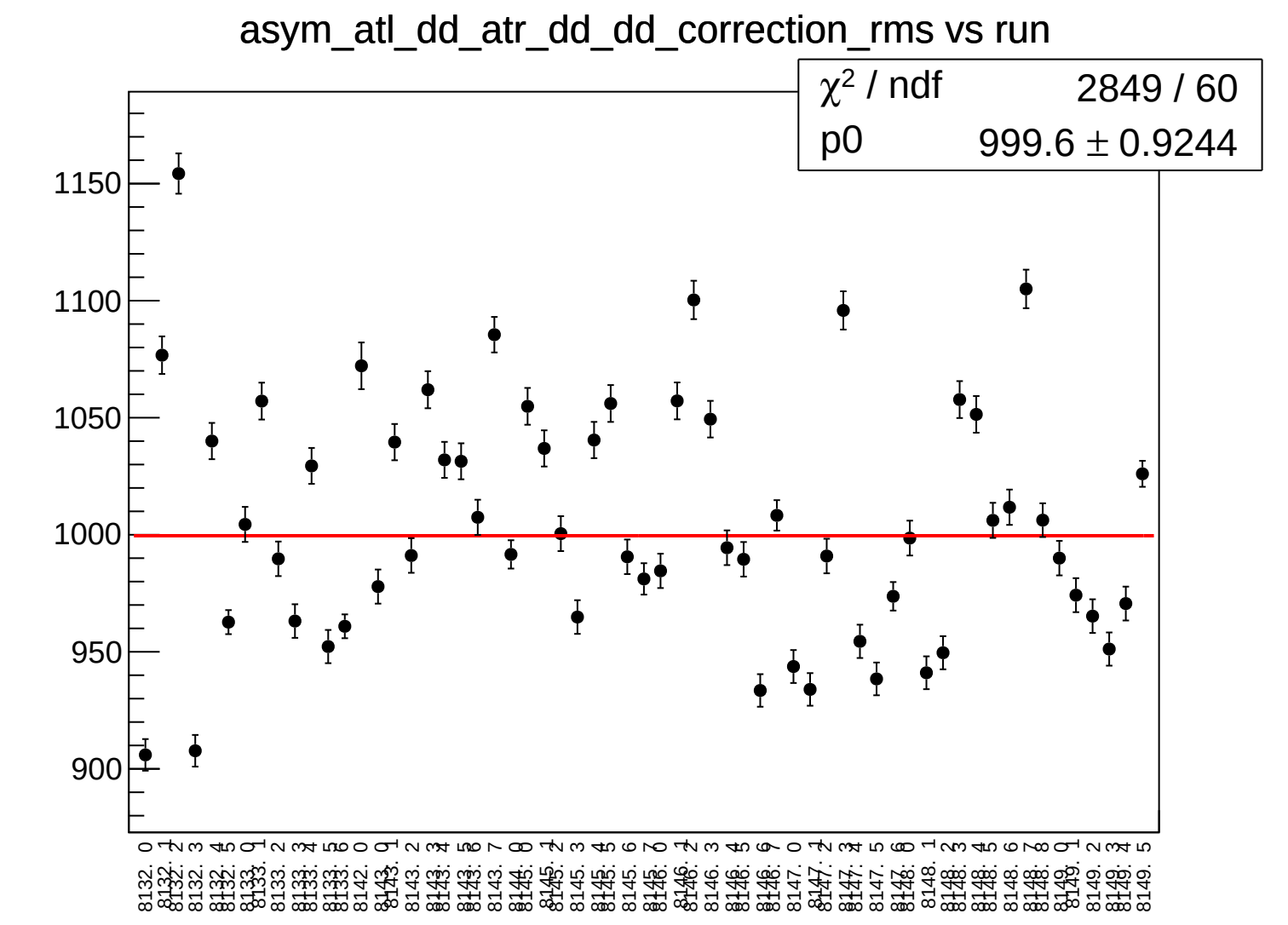

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 52.13 / 60
p0 −211.3 ± 1685
40000
20000
0
−20000
−40000
−60000
pull
Entries 61
Mean 111.4
Std Dev 156.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

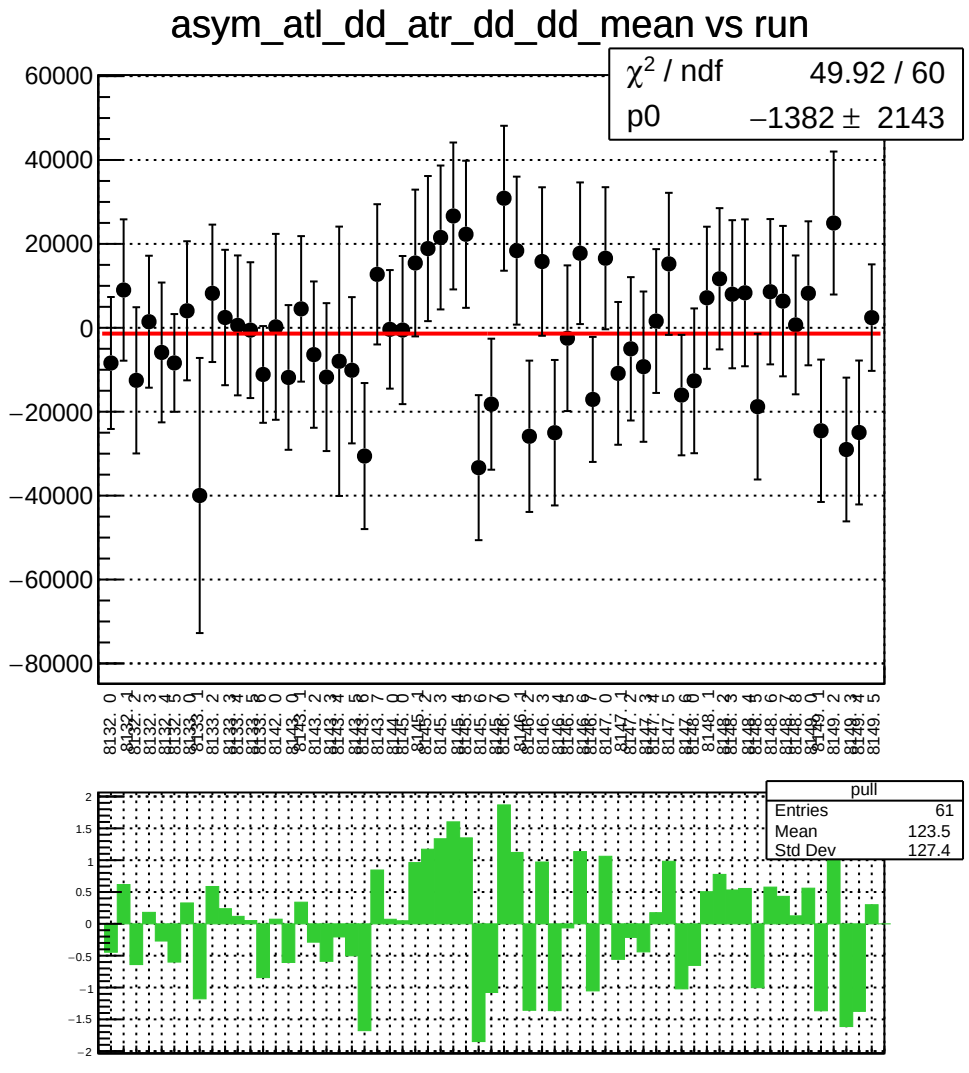

pull1D
Entries 61
Mean 0.001923
Std Dev 0.9244
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

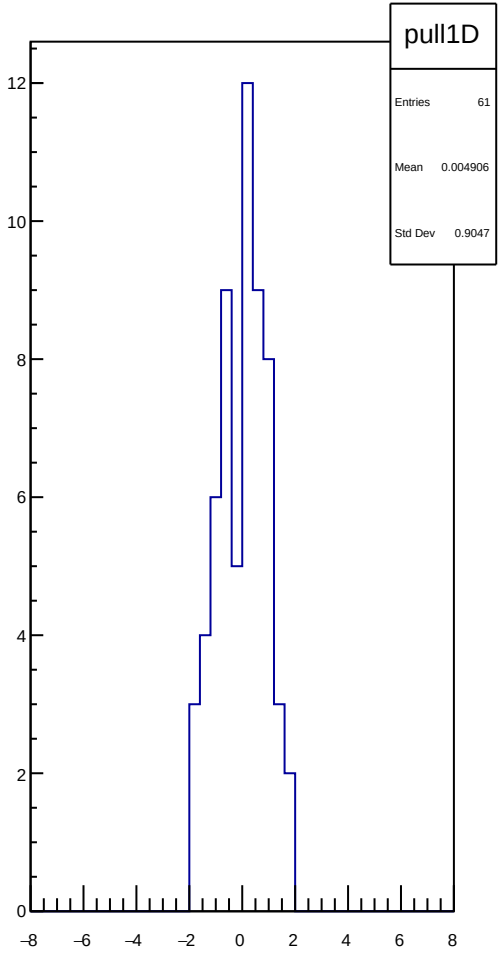

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.271e+04 / 60
p0 1283 ± 1.192
3000
2500
2000
1500
1000

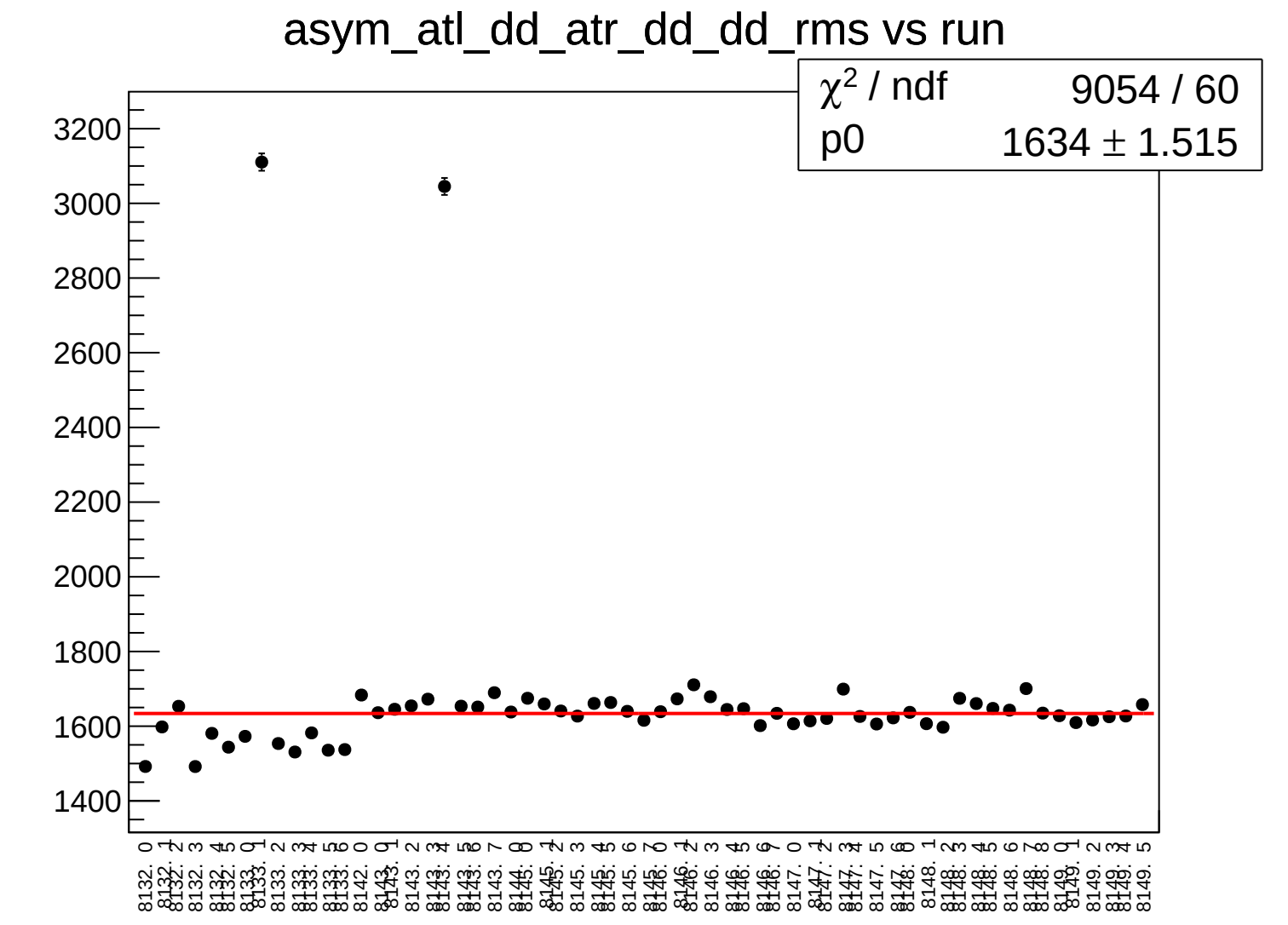

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 52.19 / 60
p0 1171 ± 1307
pull
Entries 61
Mean 133.4
Std Dev 113.8

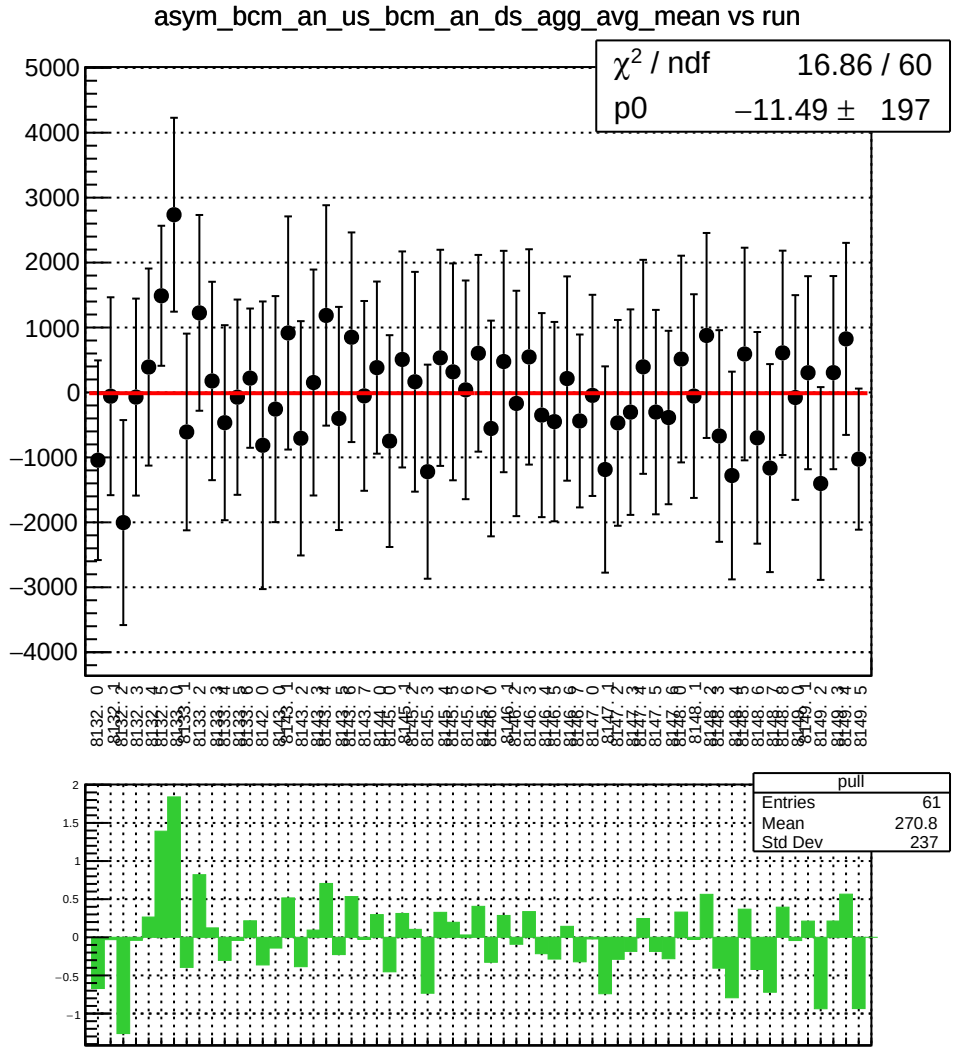

pull1D
Entries 61
Mean −0.006433
Std Dev 0.925

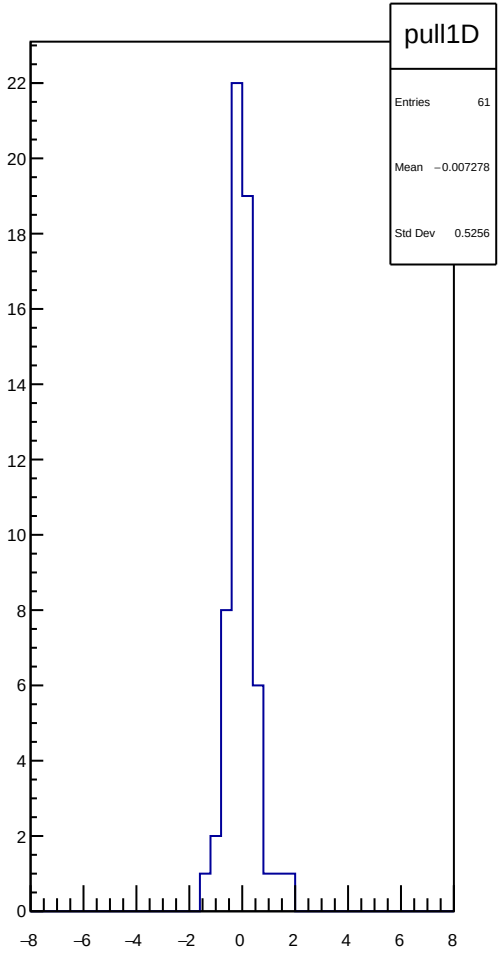

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 2849 / 60
p0 999.6 ± 0.9244
1150
1100
1050
1000
950
900

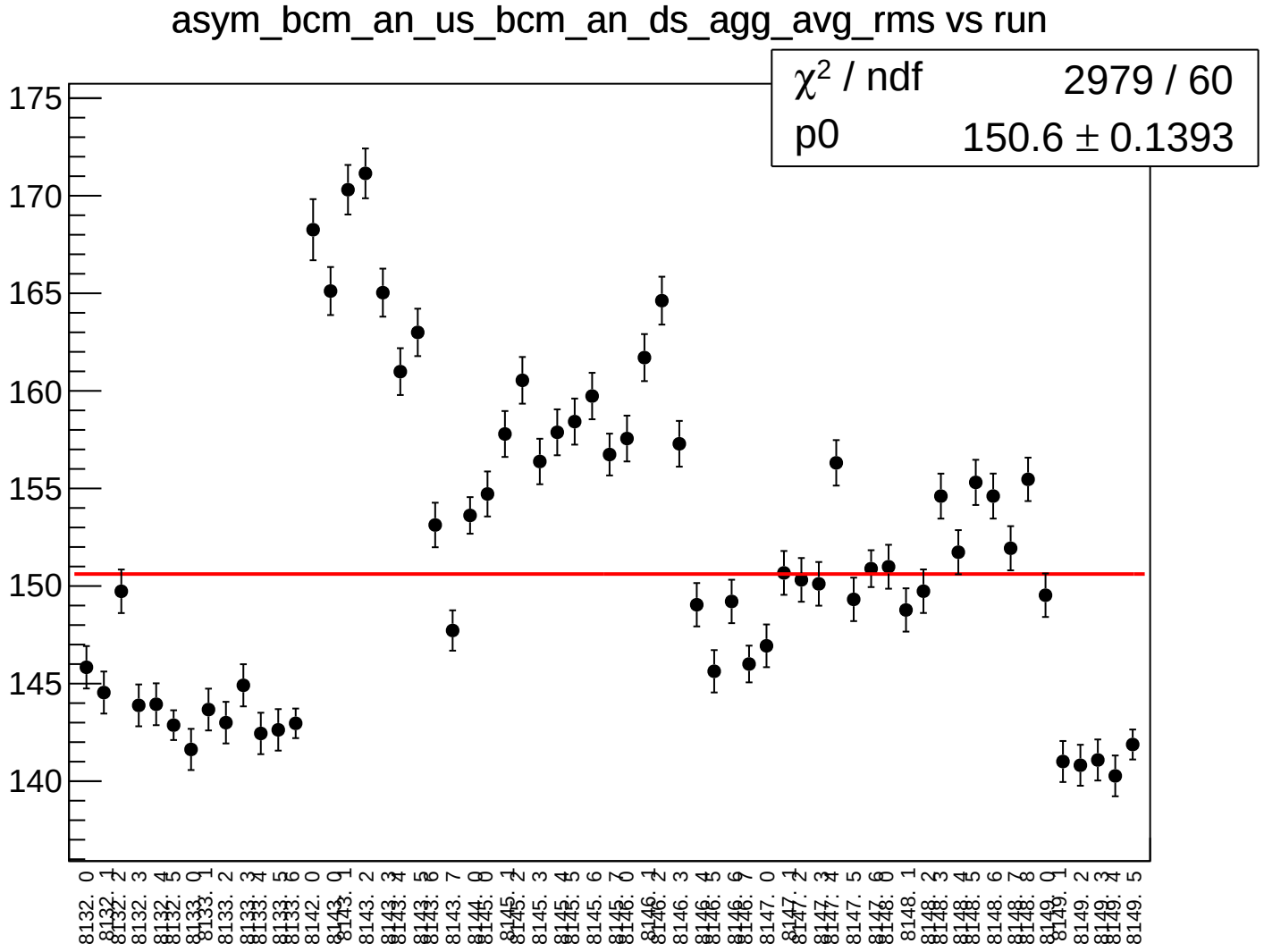

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 49.92 / 60
p0 −1382 ± 2143
pull
Entries 61
Mean 123.5
Std Dev 127.4

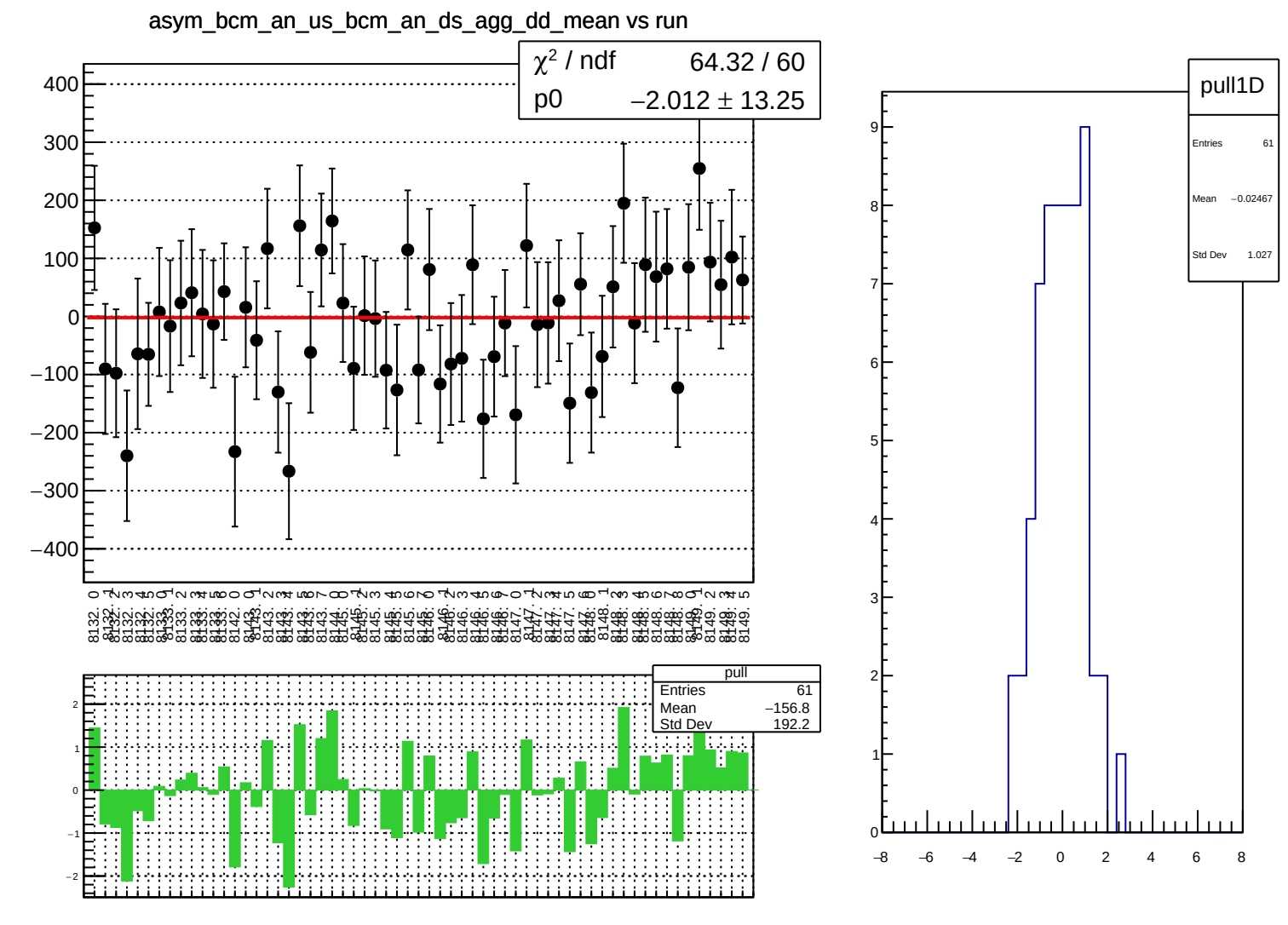

pull1D
Entries 61
Mean 0.004906
Std Dev 0.9047

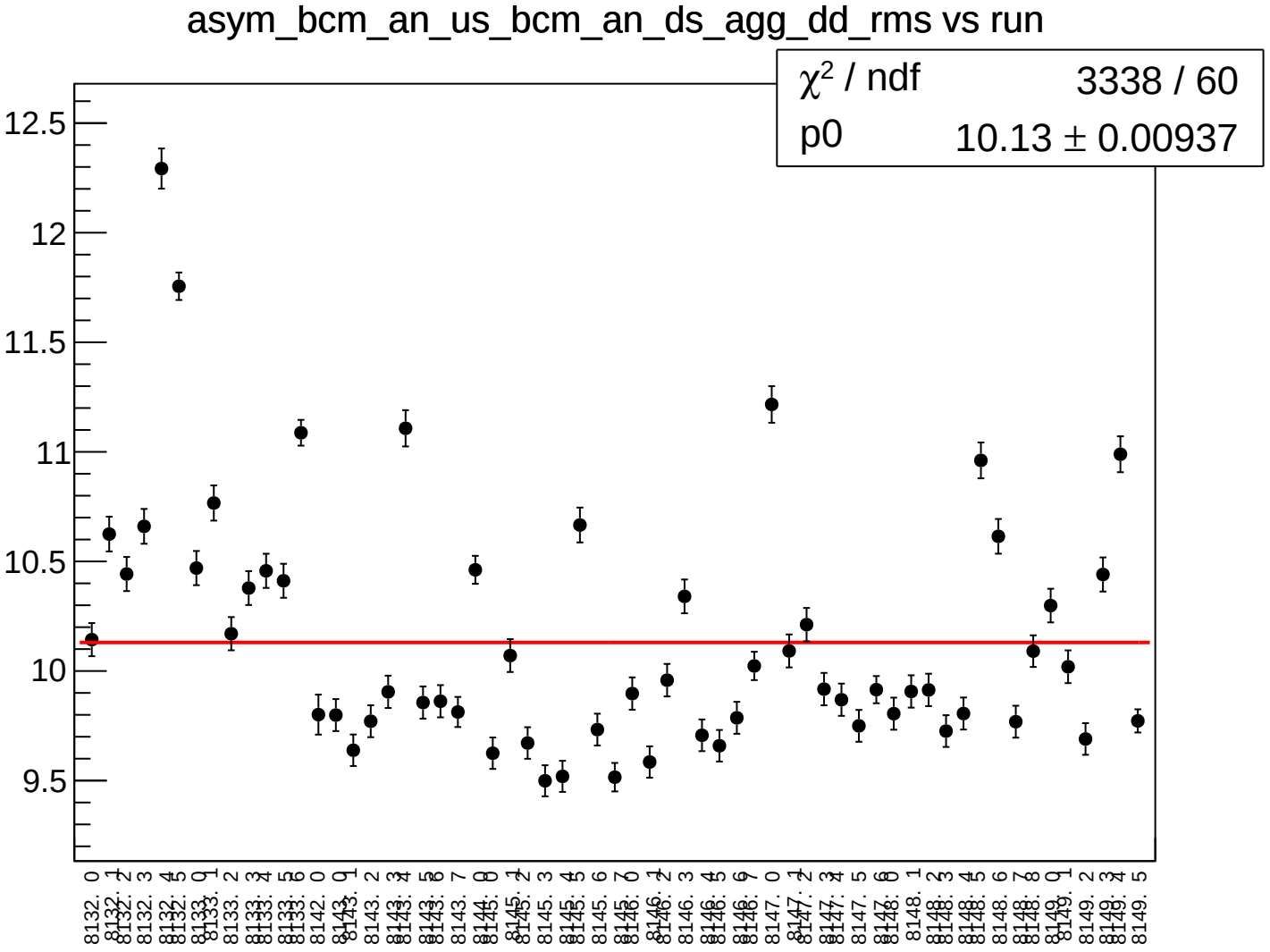

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 9054 / 60
p0 1634 ± 1.515
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

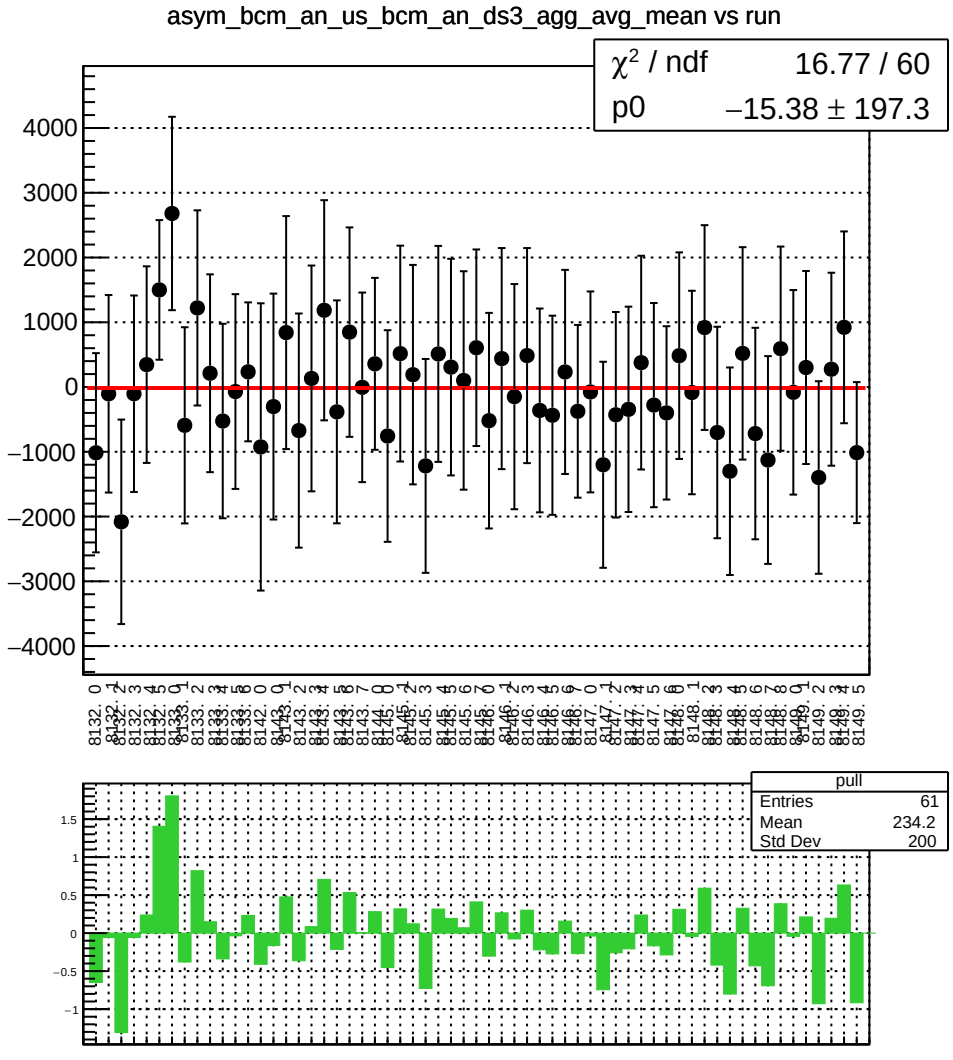

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 16.86 / 60
p0 −11.49 ± 197
pull
Entries 61
Mean 270.8
Std Dev 237

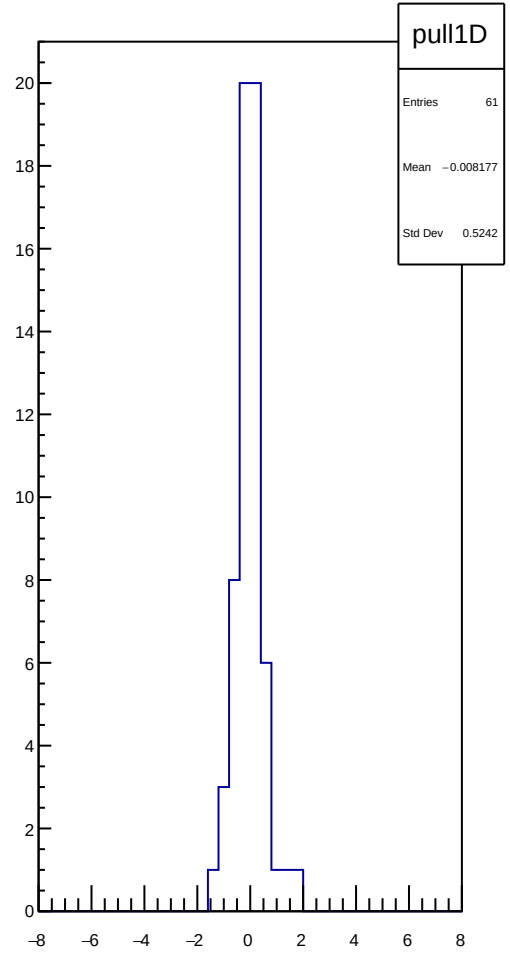

pull1D
Entries 61
Mean −0.007278
Std Dev 0.5256

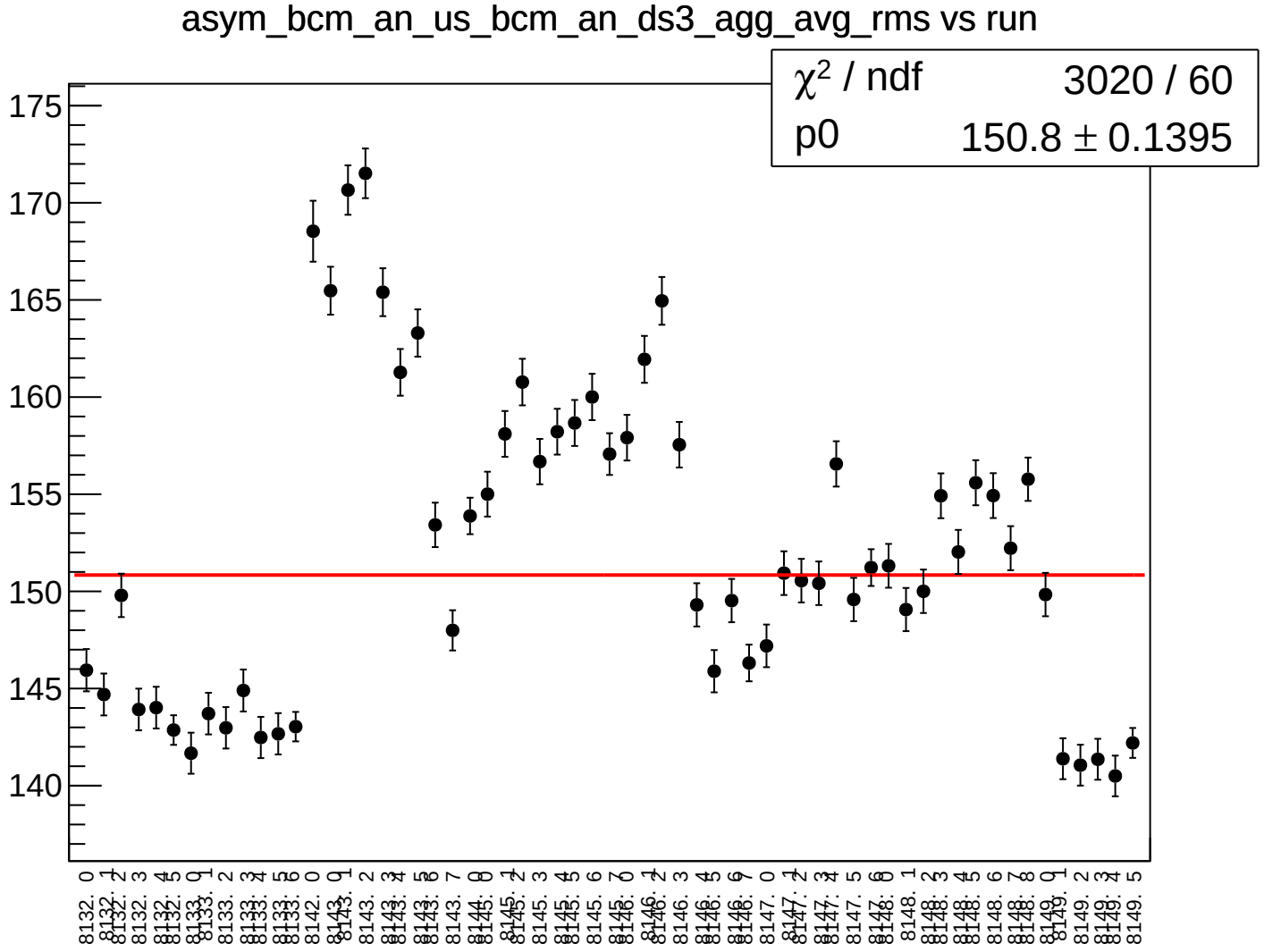

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2979 / 60
p0 150.6 ± 0.1393
175
170
165
160
155
150
145
140

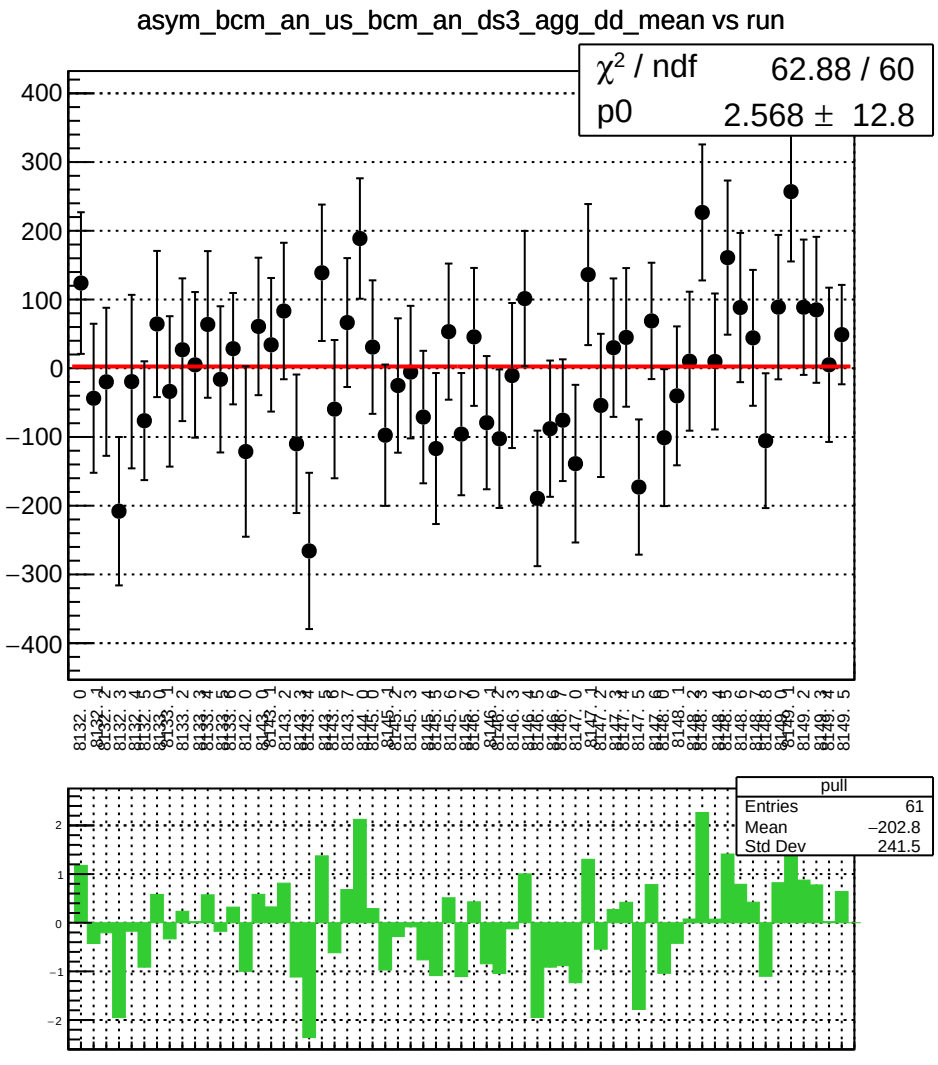

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 64.32 / 60
p0 −2.012 ± 13.25
pull
Entries 61
Mean −156.8
Std Dev 192.2
pull1D
Entries 61
Mean −0.02467
Std Dev 1.027

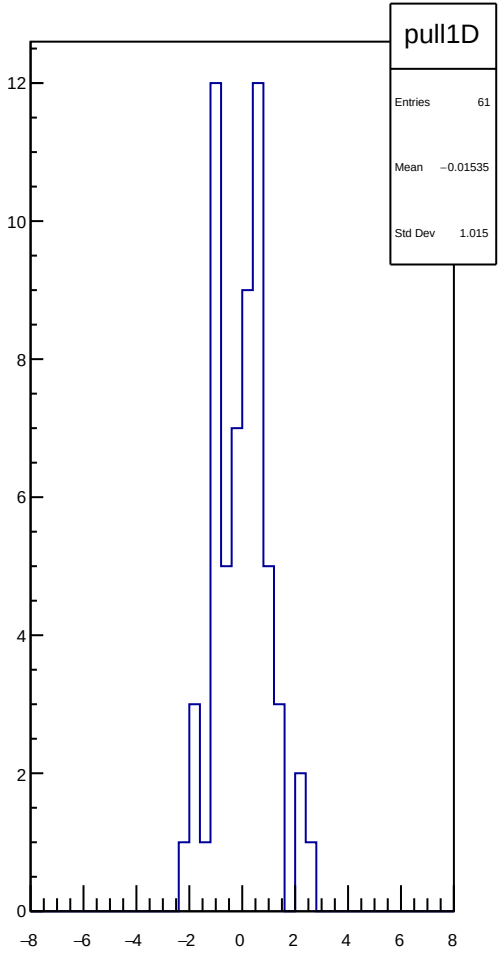

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3338 / 60
p0 10.13 ± 0.00937
12.5
12
11.5
11
10.5
10
9.5

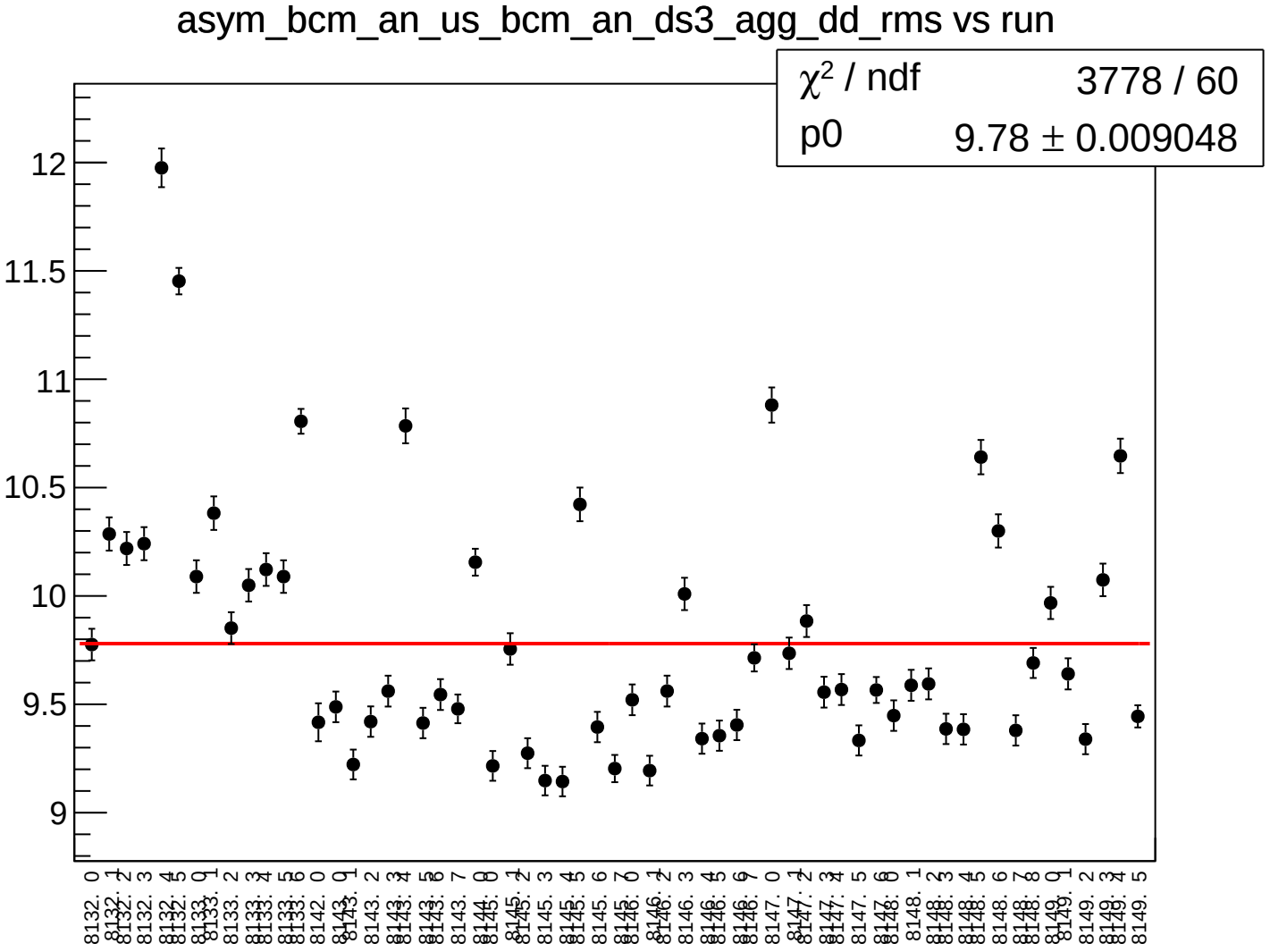

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 16.77 / 60
p0 −15.38 ± 197.3
pull
Entries 61
Mean 234.2
Std Dev 200

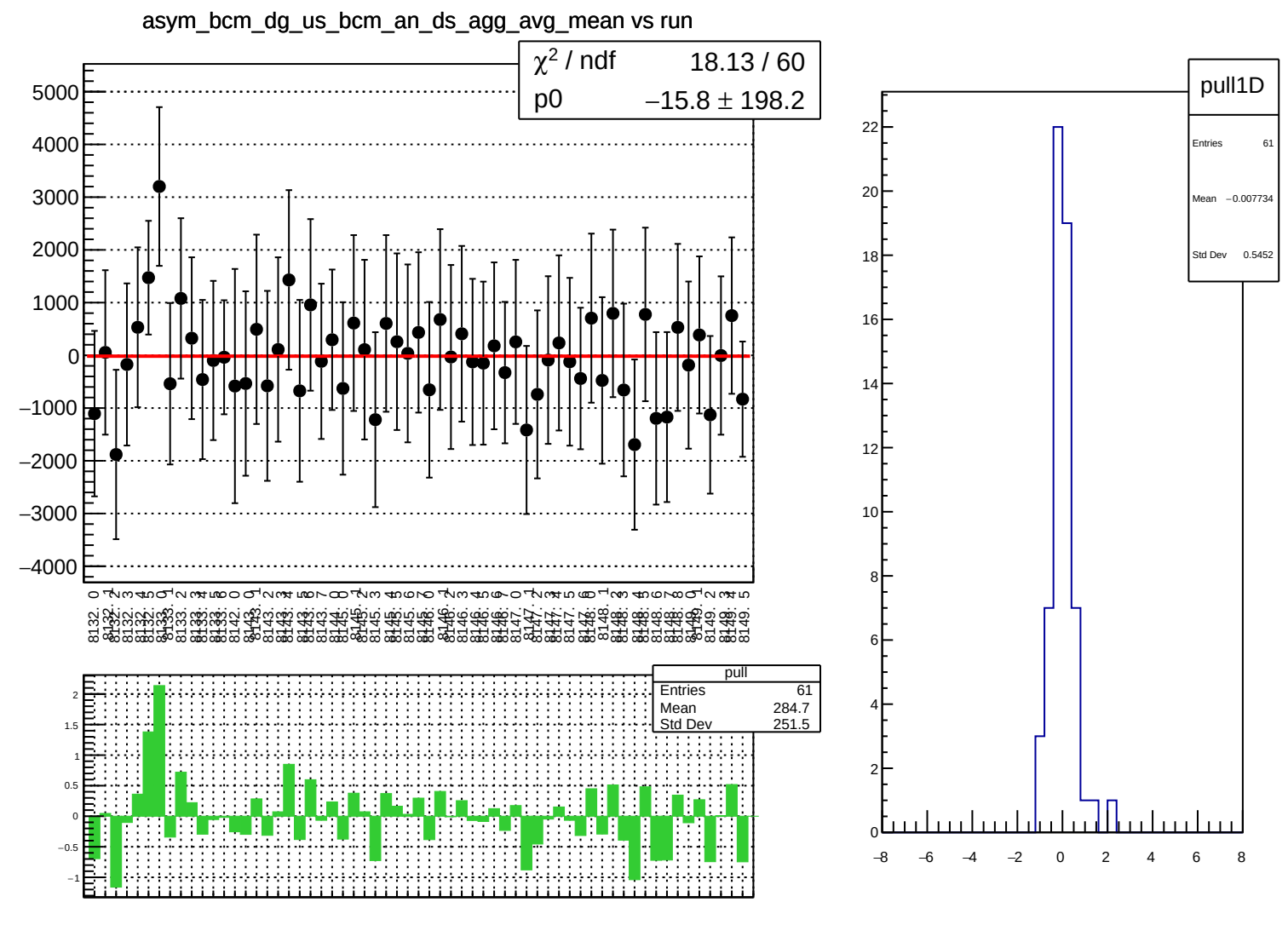

pull1D
Entries 61
Mean −0.008177
Std Dev 0.5242

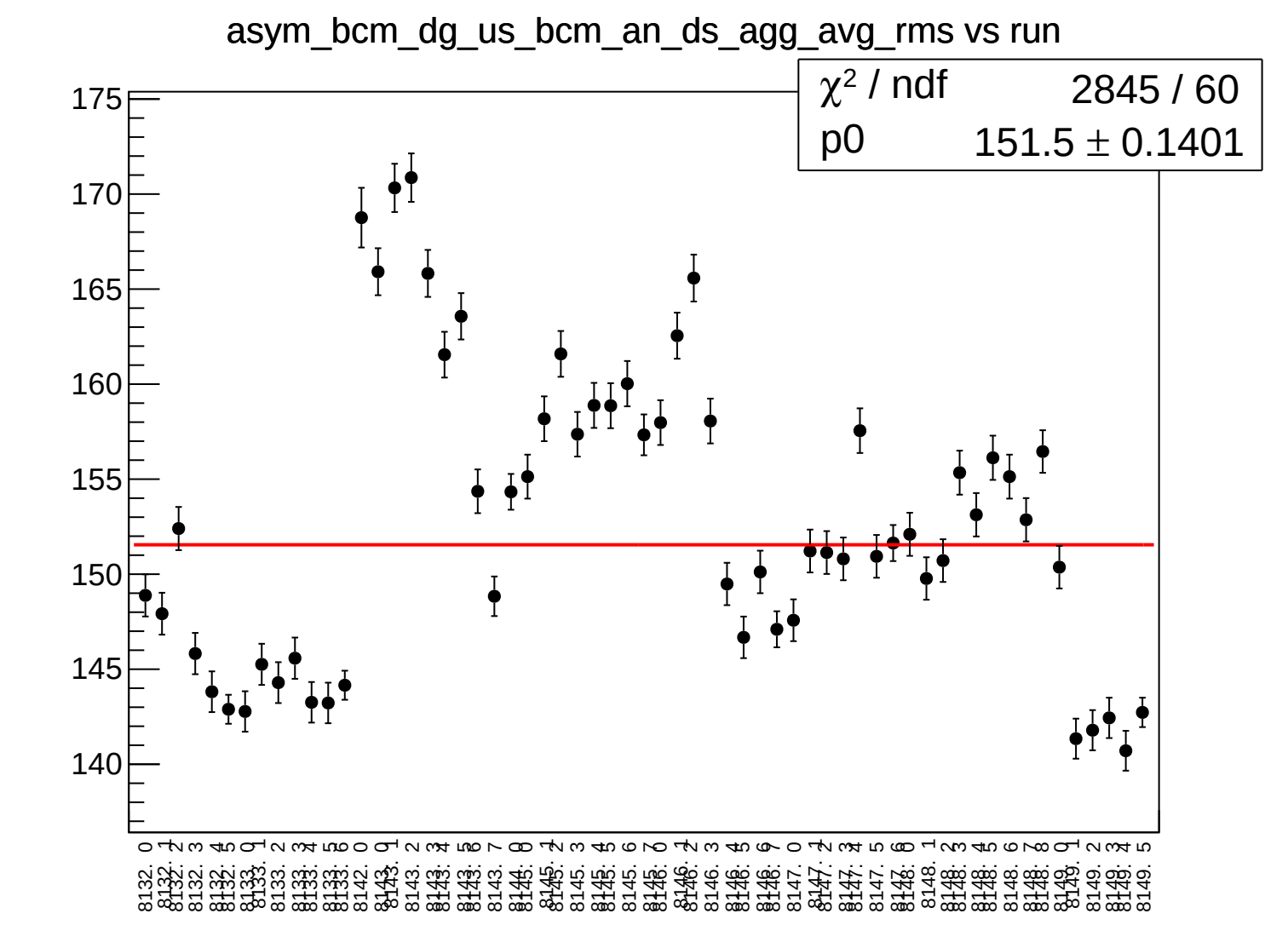

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3020 / 60
p0 150.8 ± 0.1395
175
170
165
160
155
150
145
140

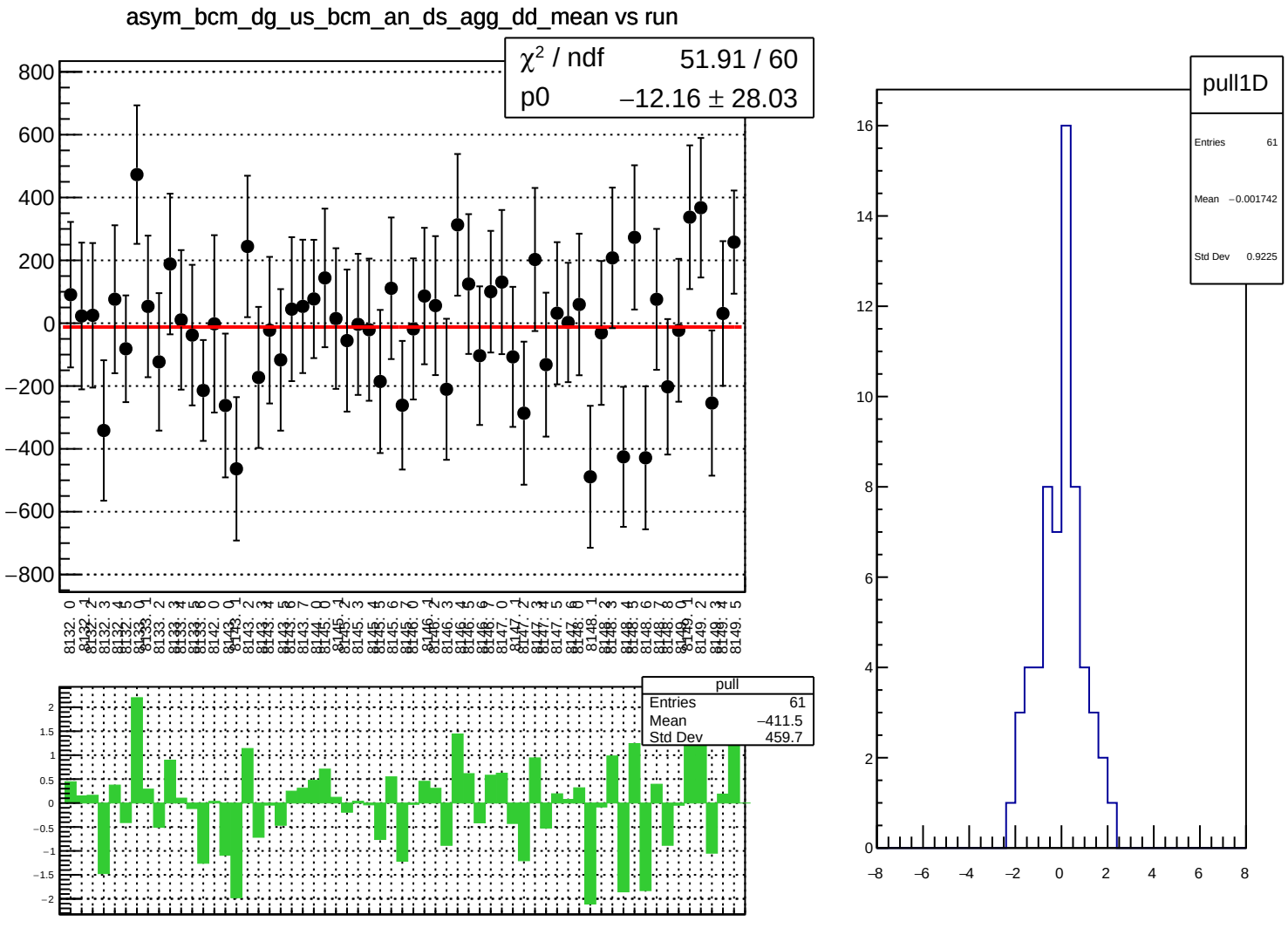

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 62.88 / 60
p0 2.568 ± 12.8
pull
Entries 61
Mean −202.8
Std Dev 241.5

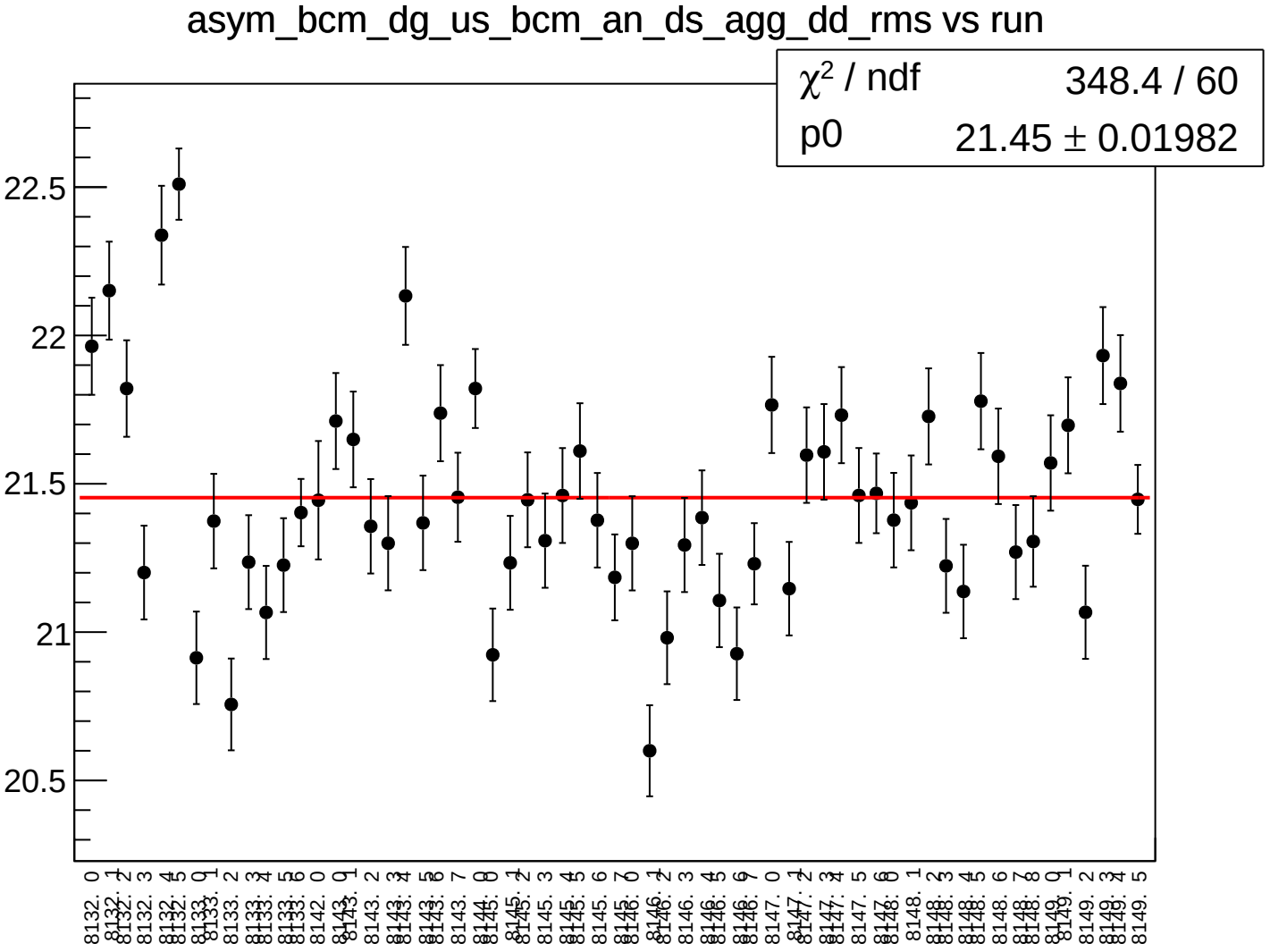

pull1D
Entries 61
Mean −0.01535
Std Dev 1.015

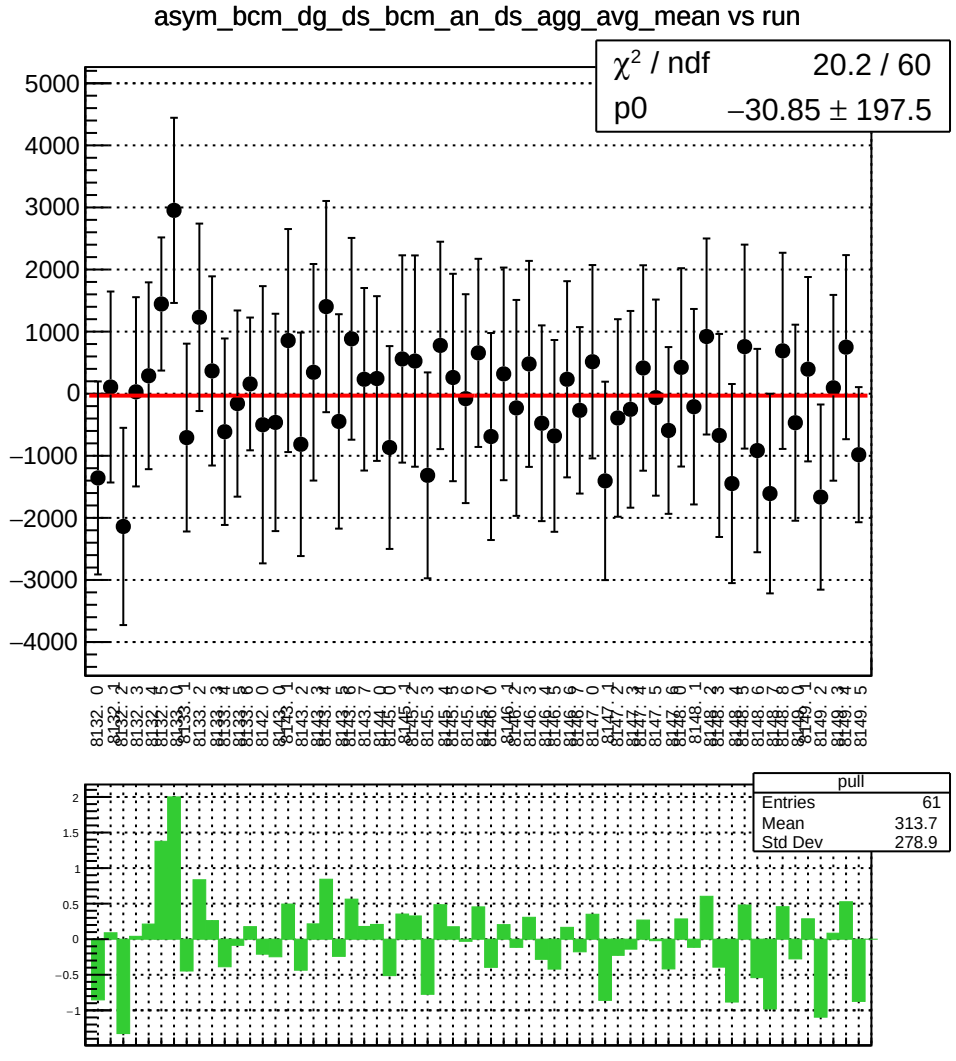

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 3778 / 60
p0 9.78 ± 0.009048
12
11.5
11
10.5
10
9.5
9

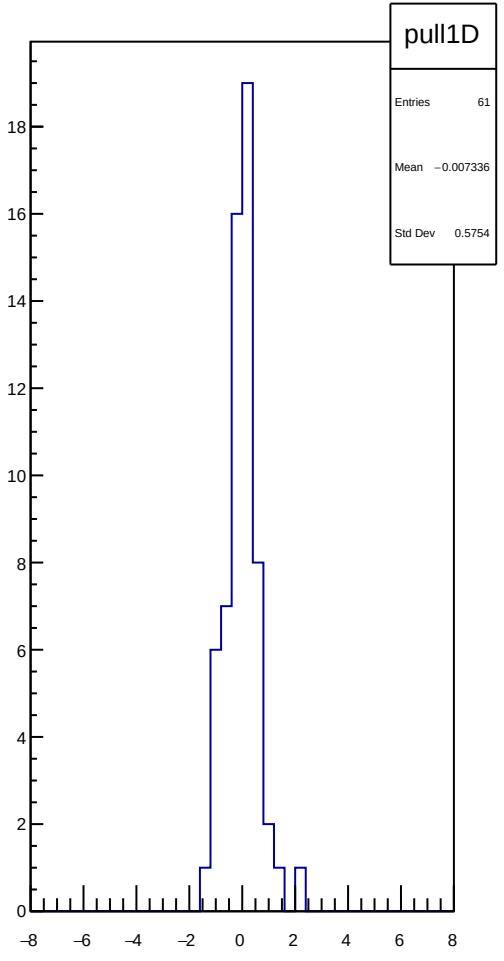

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.13 / 60
p0 −15.8 ± 198.2
pull
Entries 61
Mean 284.7
Std Dev 251.5
pull1D
Entries 61
Mean −0.007734
Std Dev 0.5452

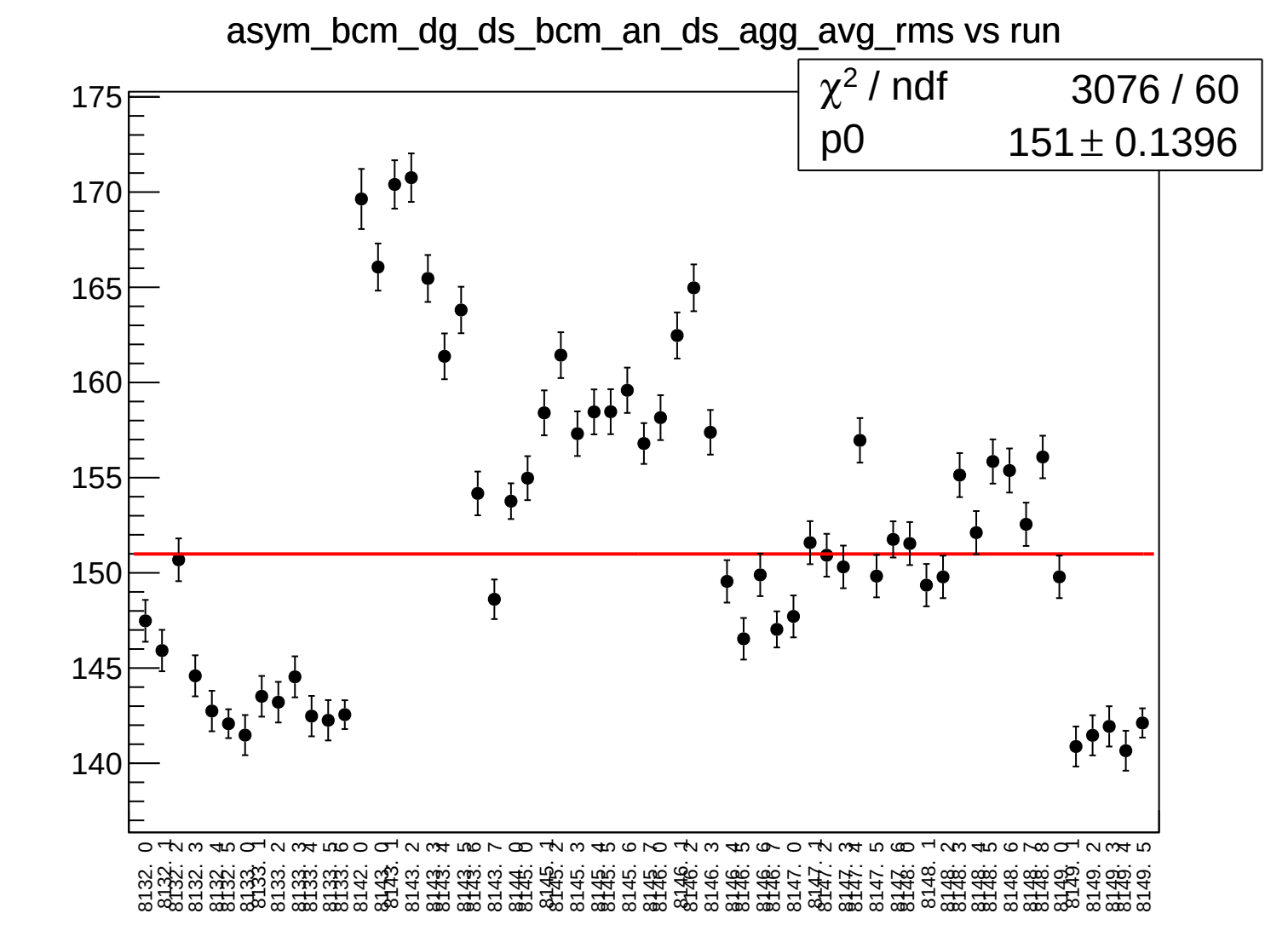

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2845 / 60
p0 151.5 ± 0.1401
175
170
165
160
155
150
145
140

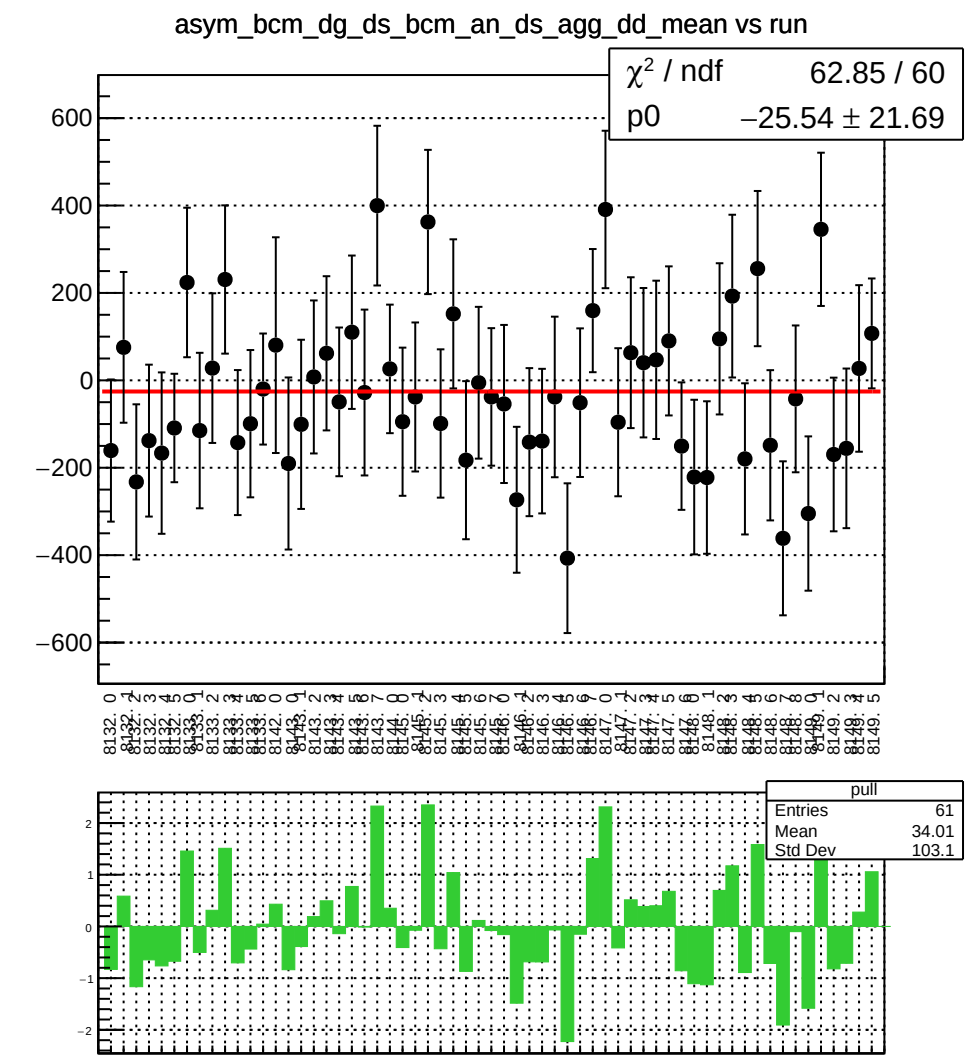

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 51.91 / 60
p0 −12.16 ± 28.03
pull
Entries 61
Mean −411.5
Std Dev 459.7
pull1D
Entries 61
Mean −0.001742
Std Dev 0.9225

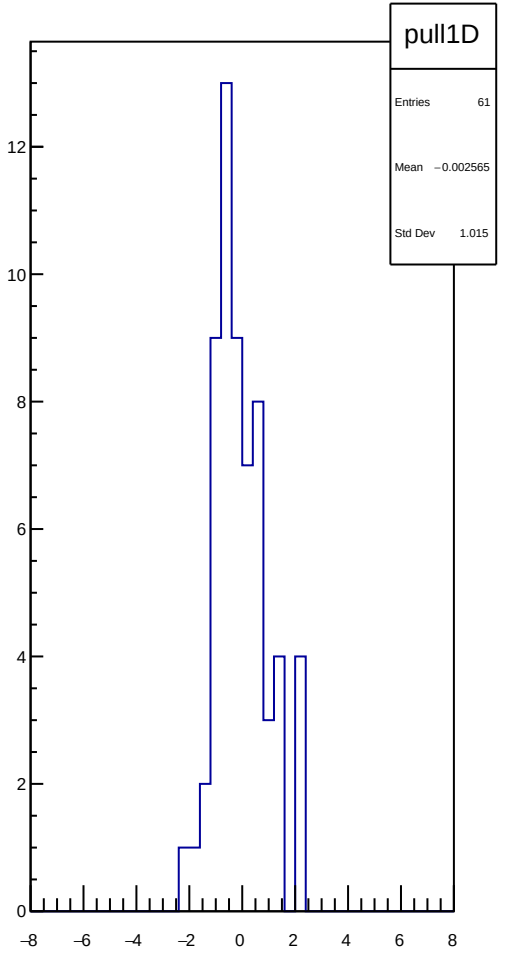

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 348.4 / 60
p0 21.45 ± 0.01982
22.5
22
21.5
21
20.5

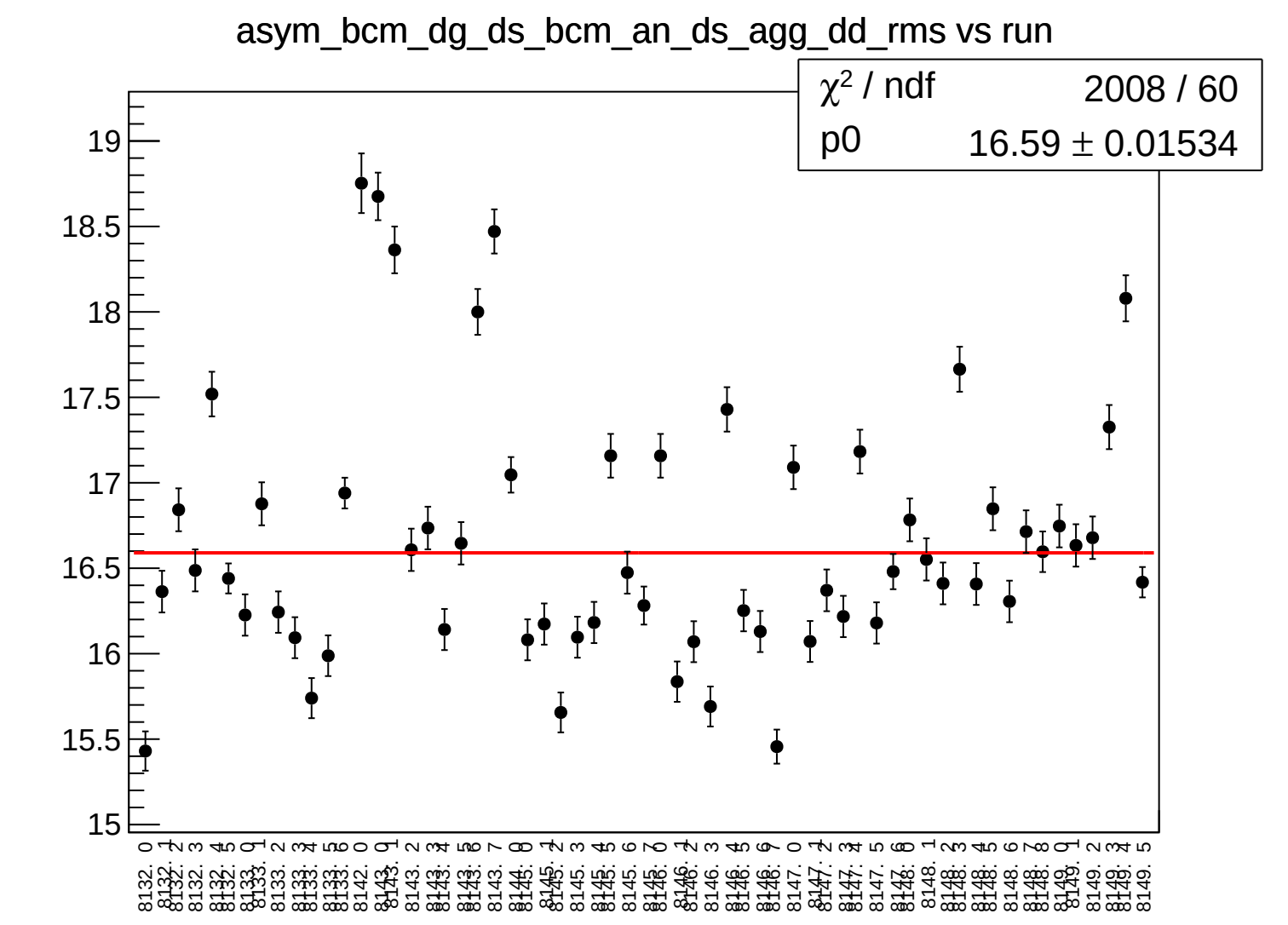

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 20.2 / 60
p0 −30.85 ± 197.5
pull
Entries 61
Mean 313.7
Std Dev 278.9

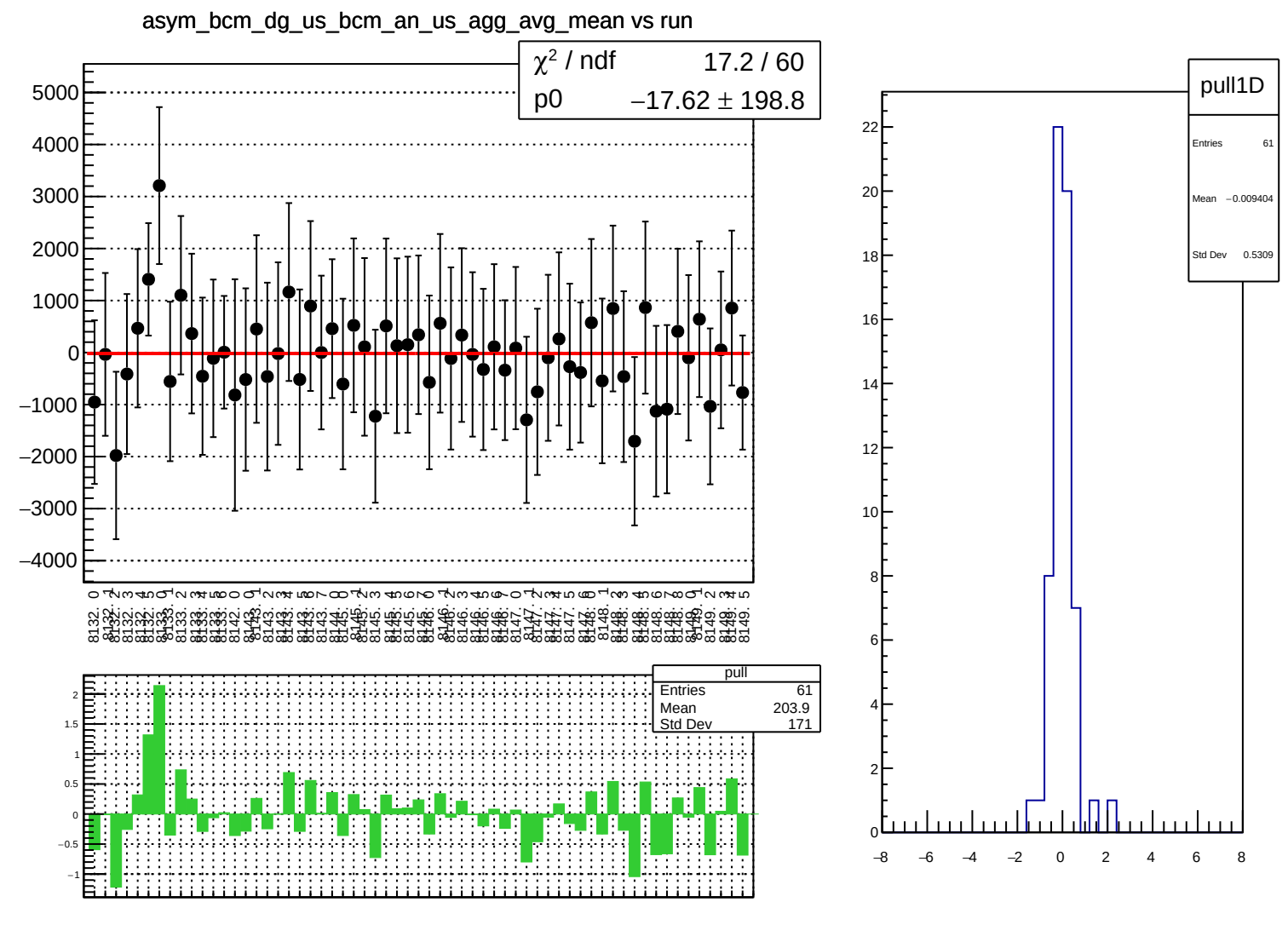

pull1D
Entries 61
Mean −0.007336
Std Dev 0.5754

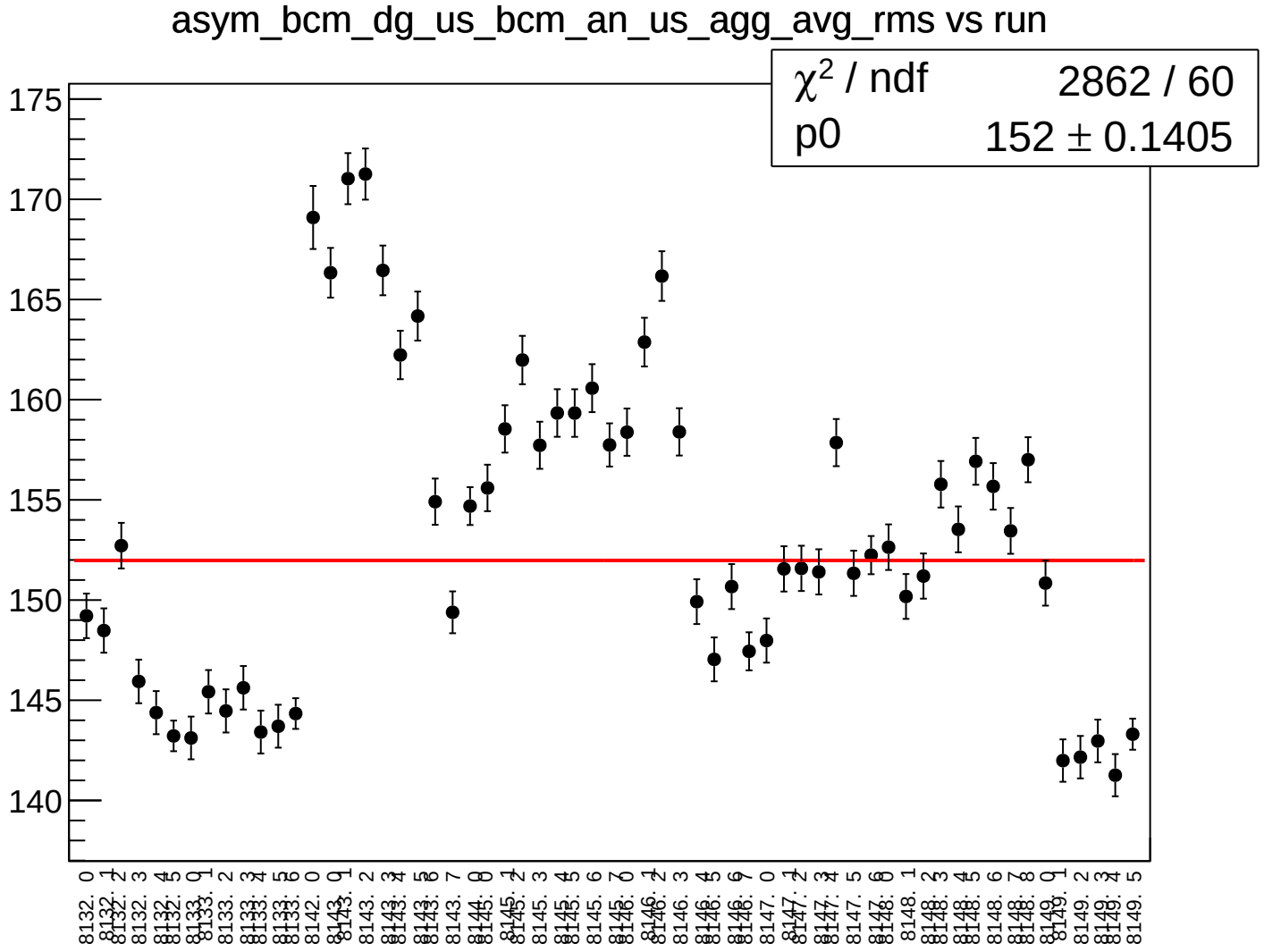

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3076 / 60
p0 151 ± 0.1396
175
170
165
160
155
150
145
140


asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 62.85 / 60
p0 −25.54 ± 21.69
pull
Entries 61
Mean 34.01
Std Dev 103.1

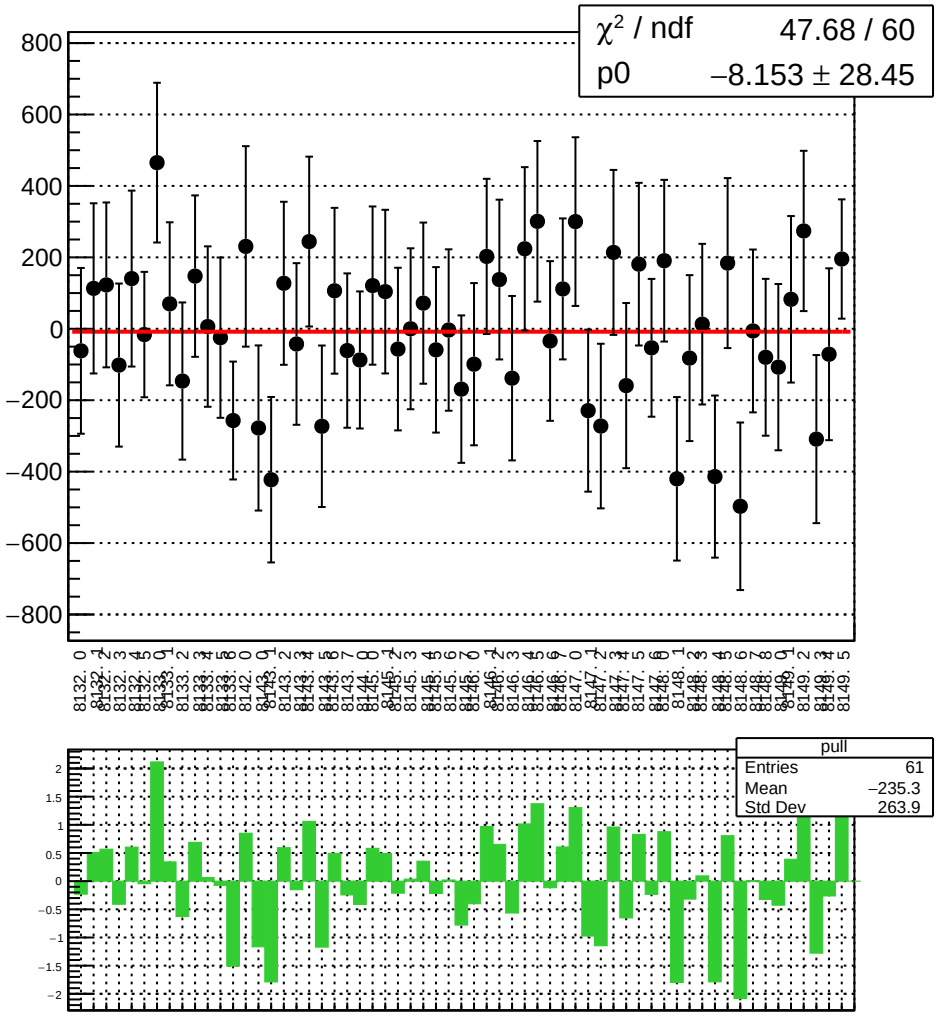

pull1D
Entries 61
Mean −0.002565
Std Dev 1.015

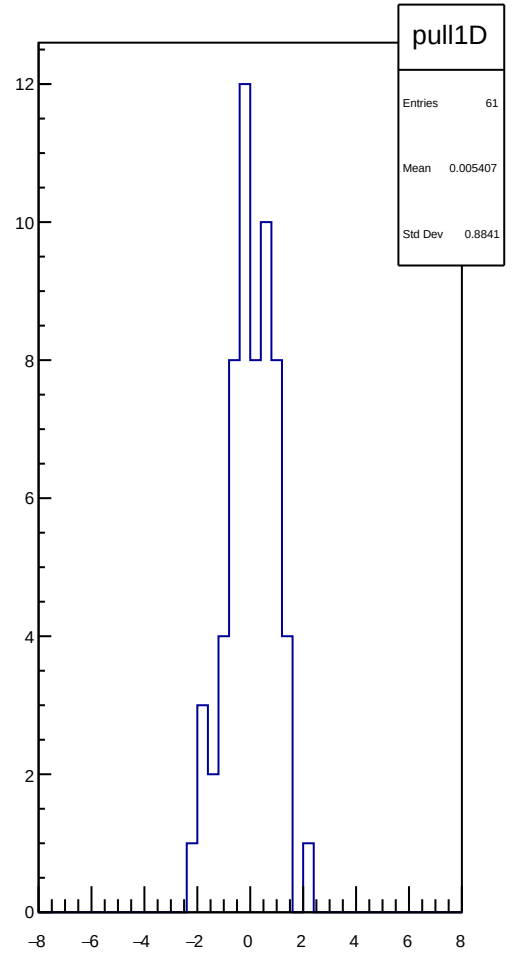

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2008 / 60
p0 16.59 ± 0.01534
19
18.5
18
17.5
17
16.5
16
15.5
15

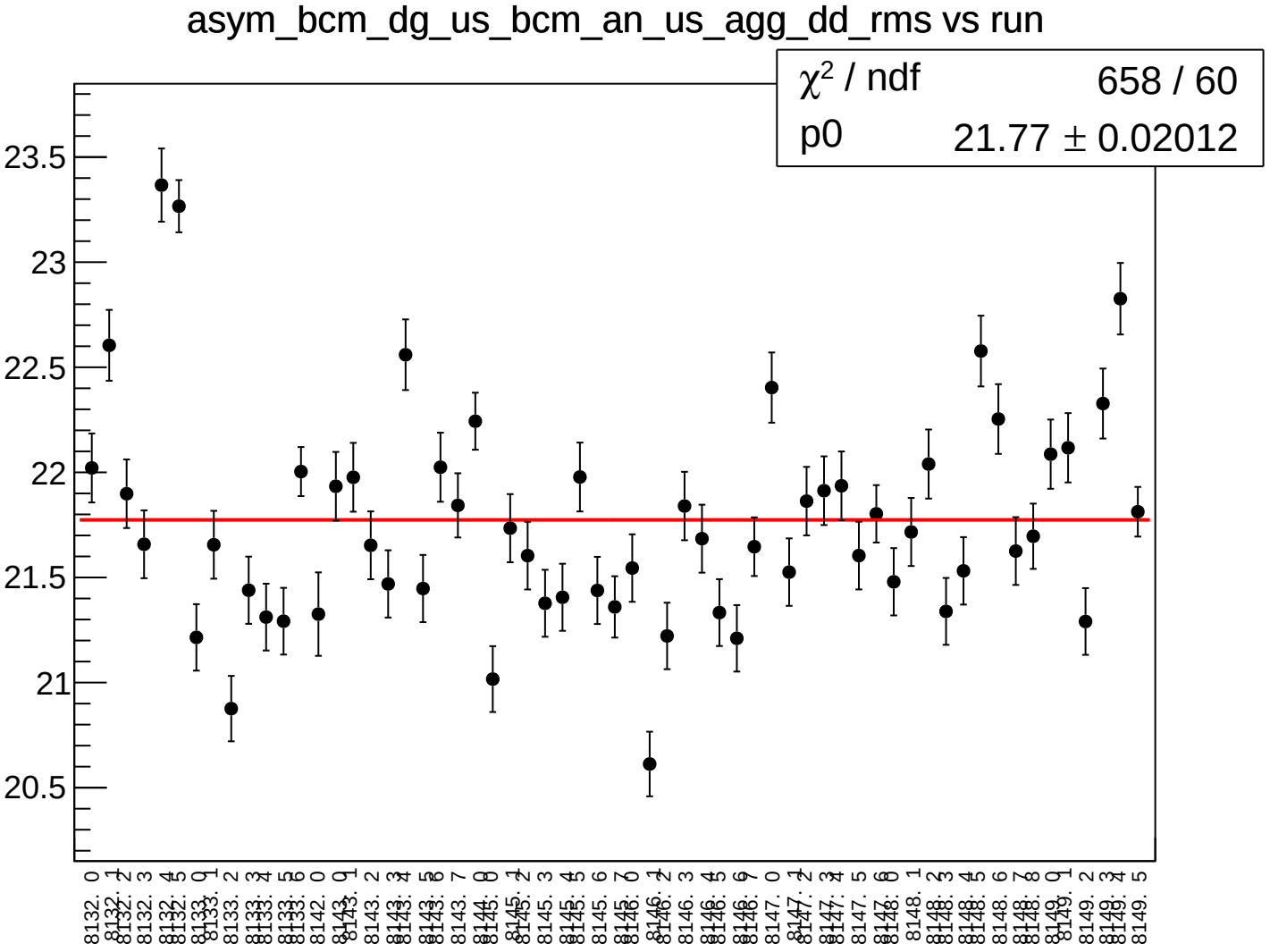

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.2 / 60
p0 −17.62 ± 198.8
pull
Entries 61
Mean 203.9
Std Dev 171
pull1D
Entries 61
Mean −0.009404
Std Dev 0.5309

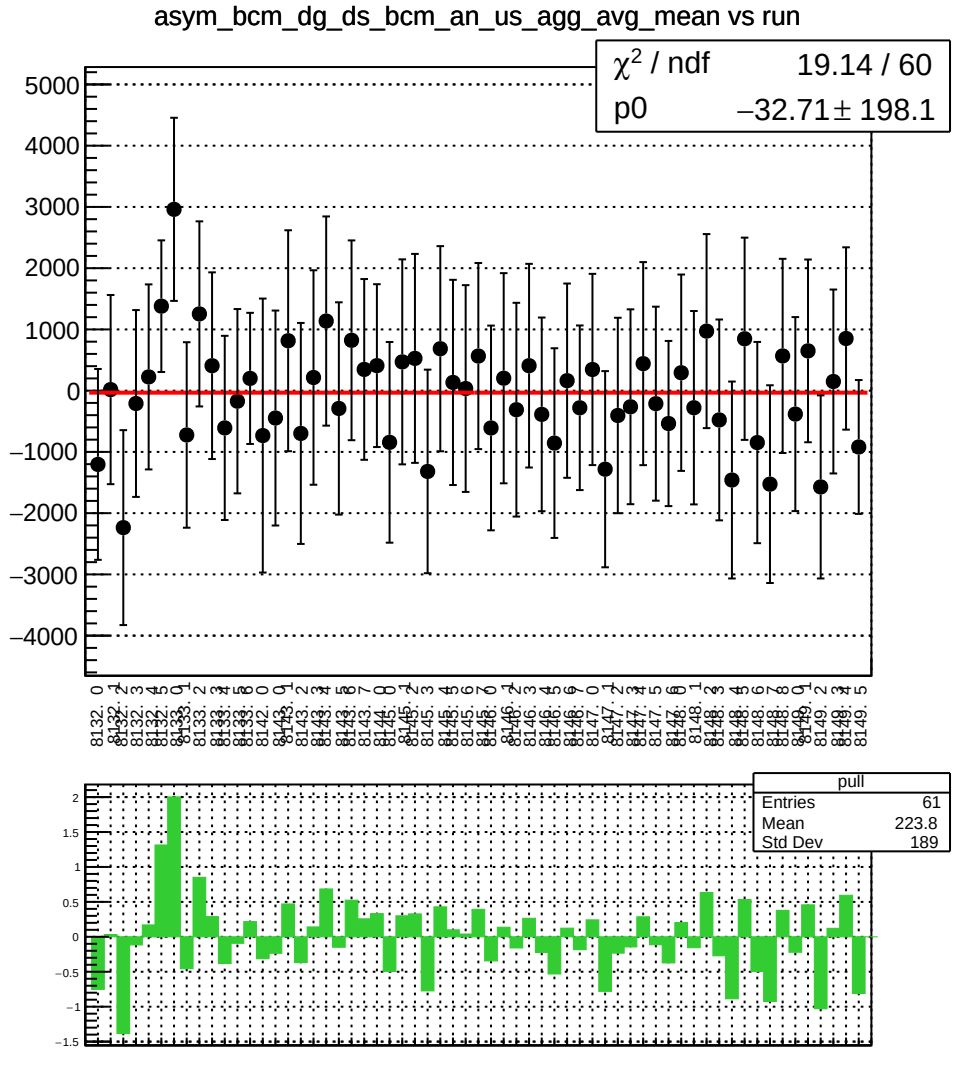

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2862 / 60
p0 152 ± 0.1405
175
170
165
160
155
150
145
140

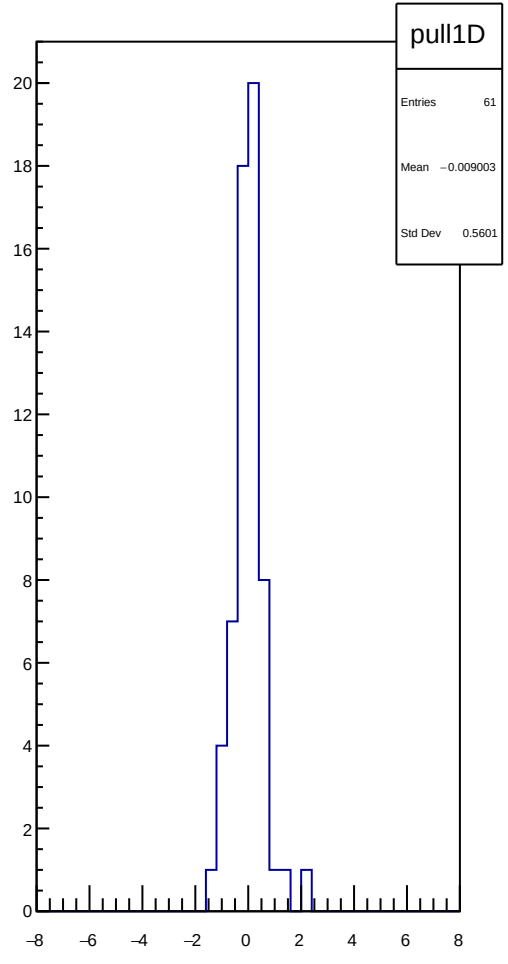
asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run

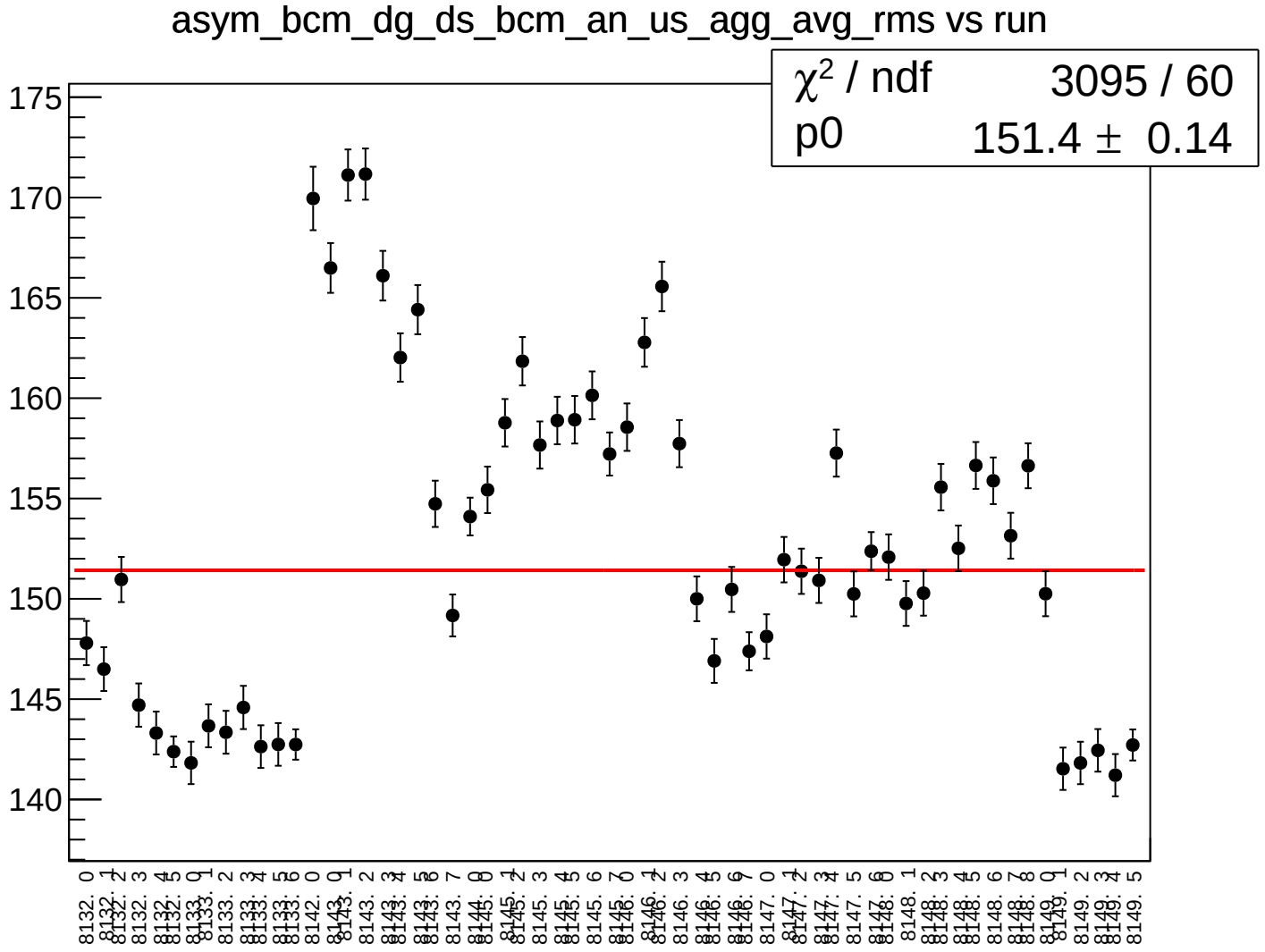


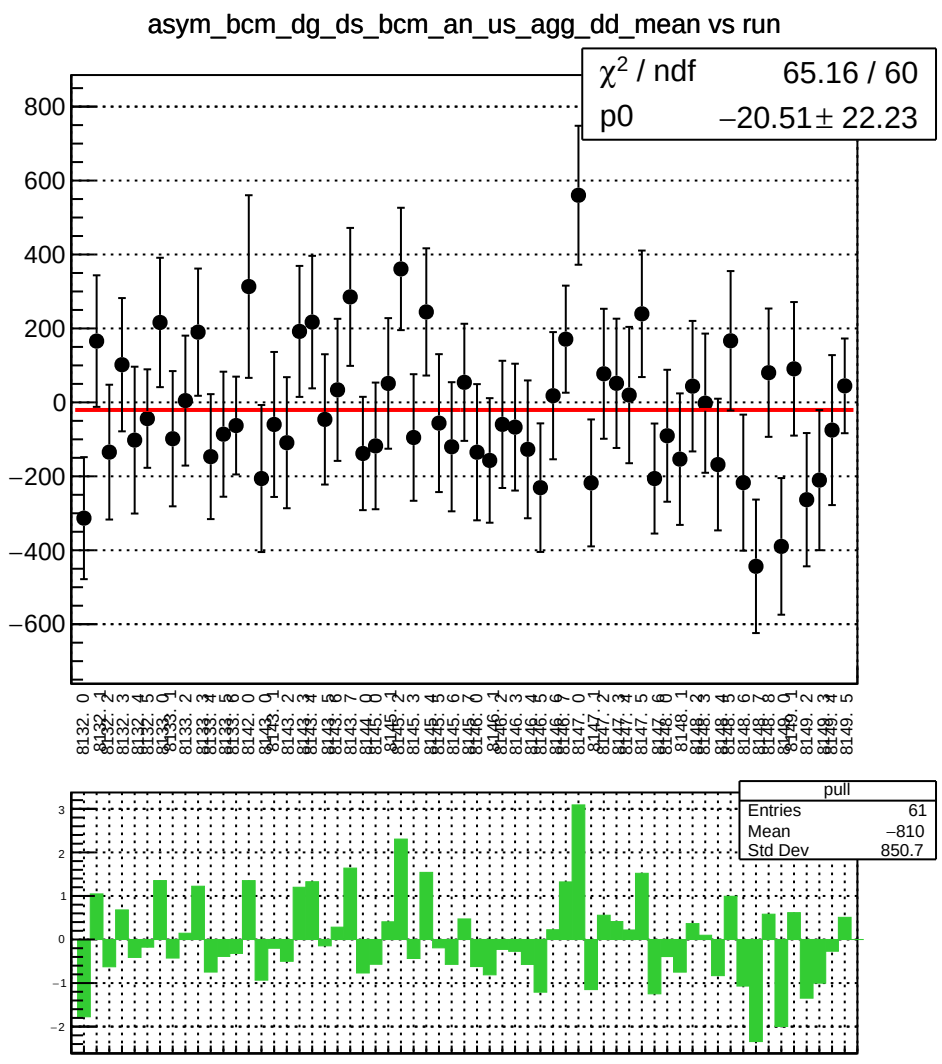


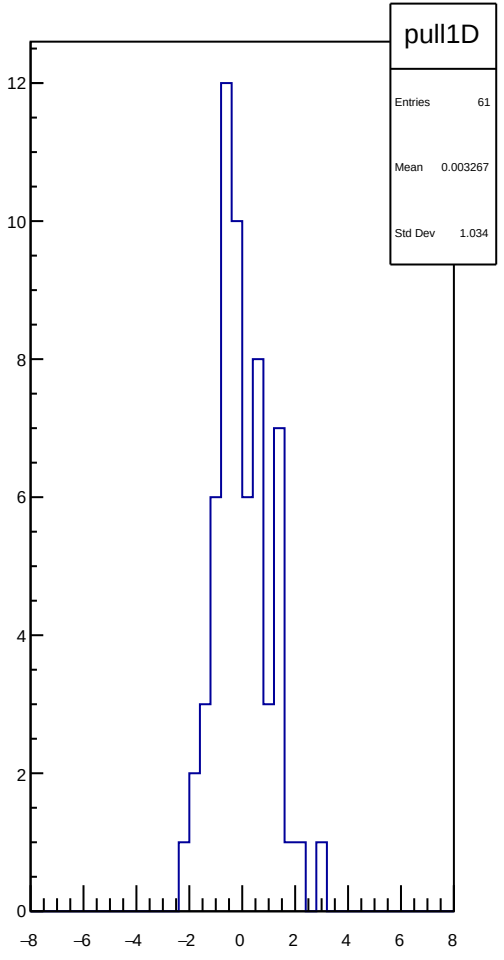

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 658 / 60
p0 21.77 ± 0.02012
23.5
23
22.5
22
21.5
21
20.5

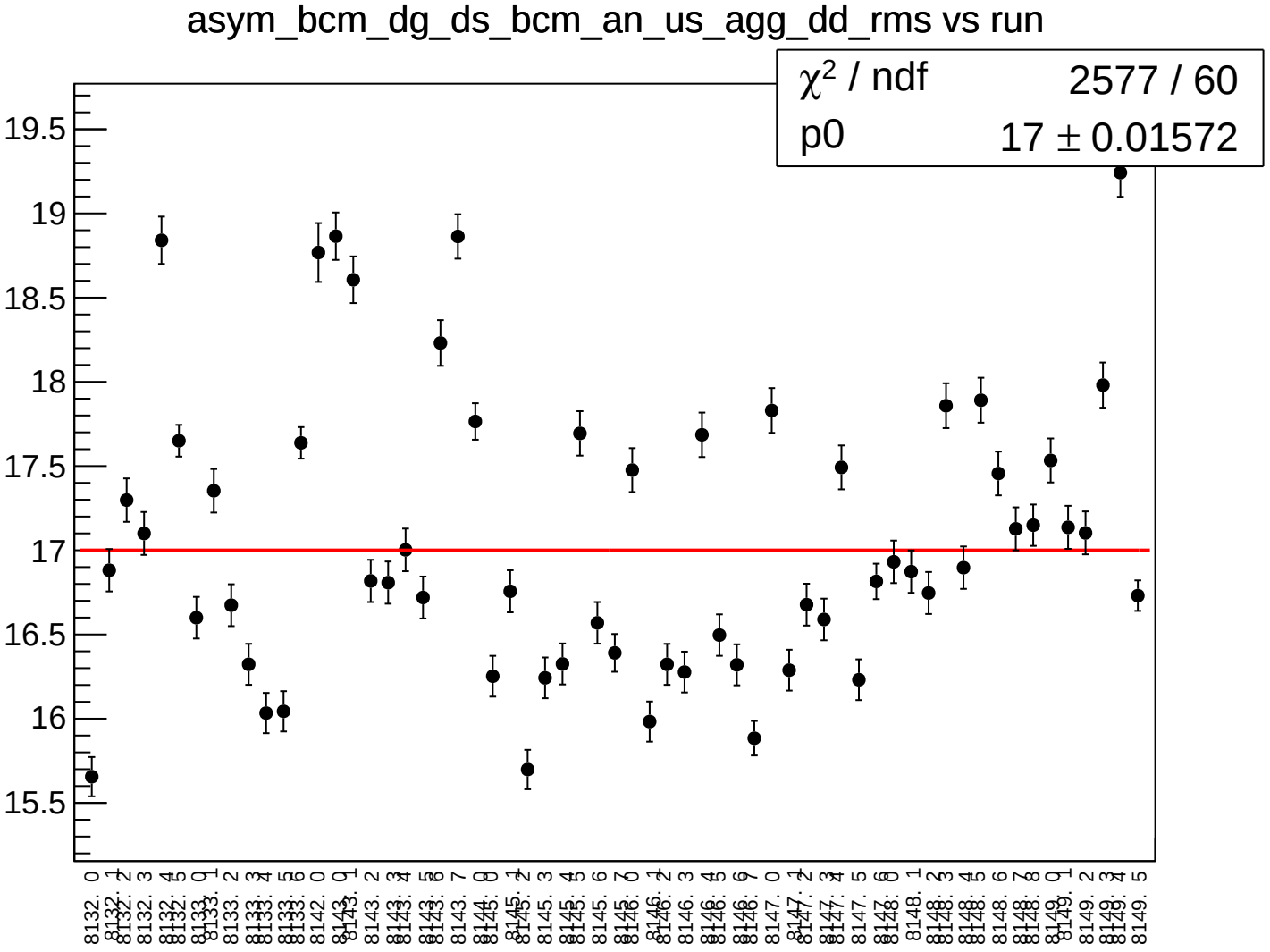

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 19.14 / 60
p0 −32.71 ± 198.1
pull
Entries 61
Mean 223.8
Std Dev 189

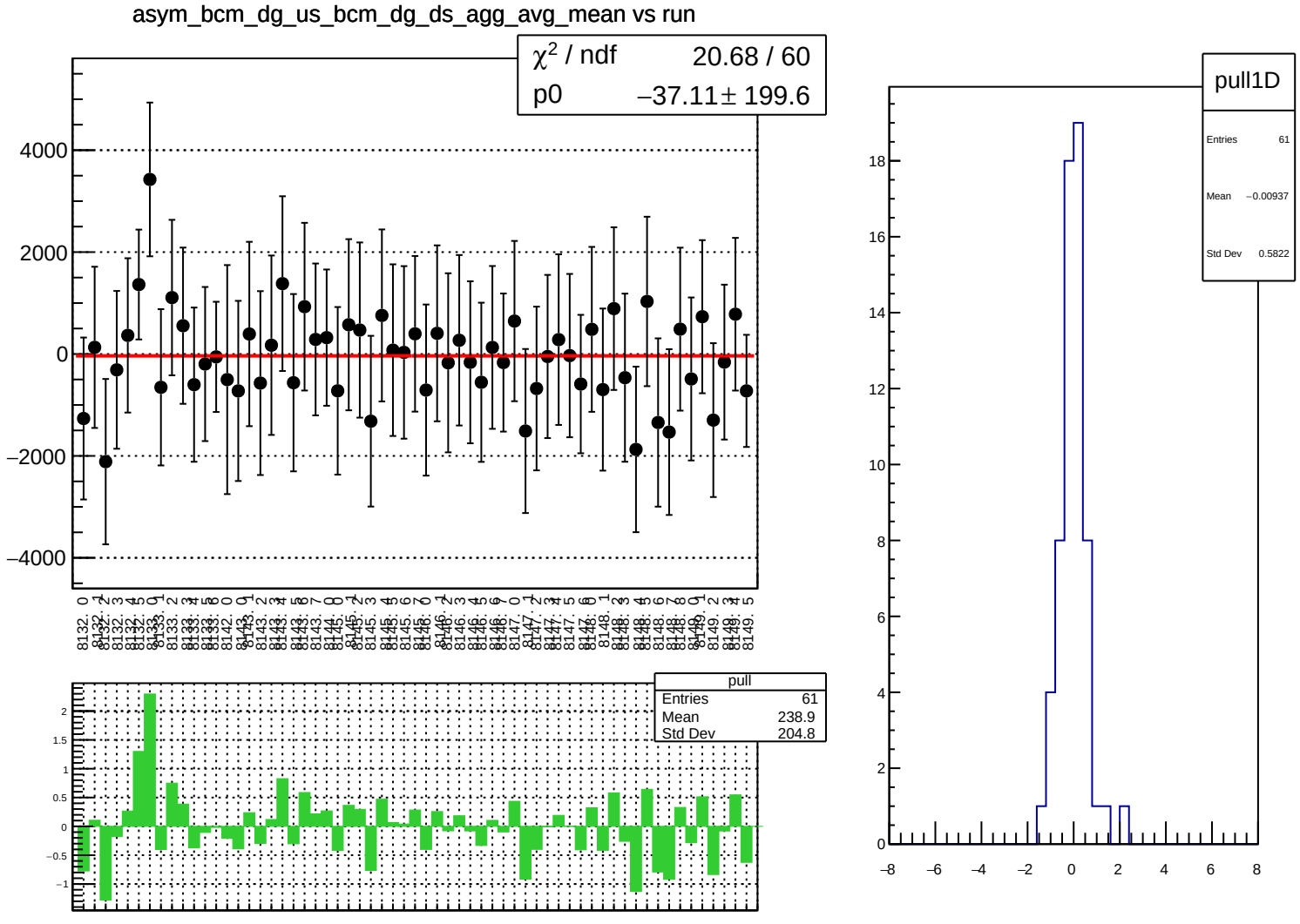

pull1D
Entries 61
Mean −0.009003
Std Dev 0.5601

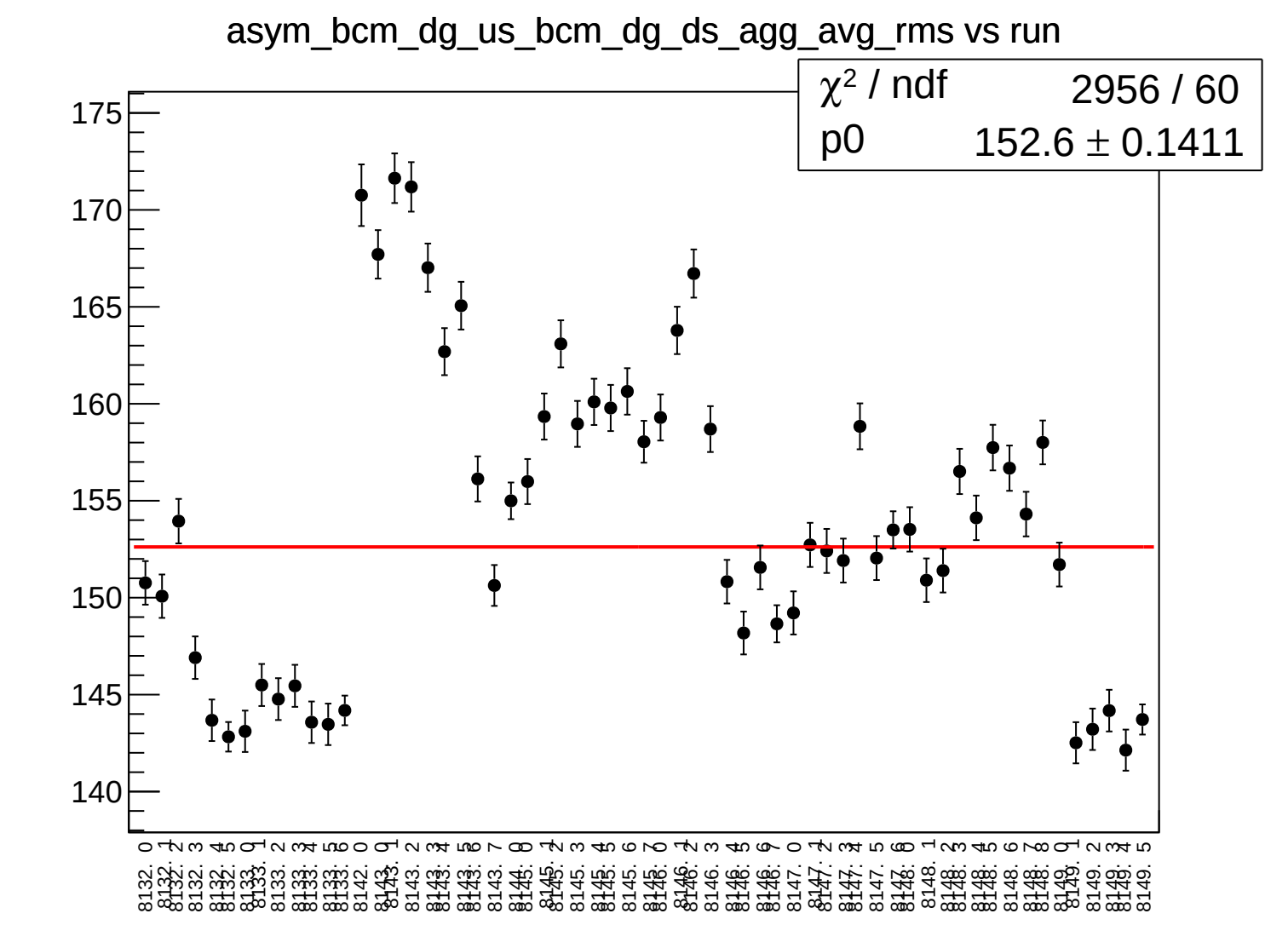

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3095 / 60
p0 151.4 ± 0.14
175
170
165
160
155
150
145
140

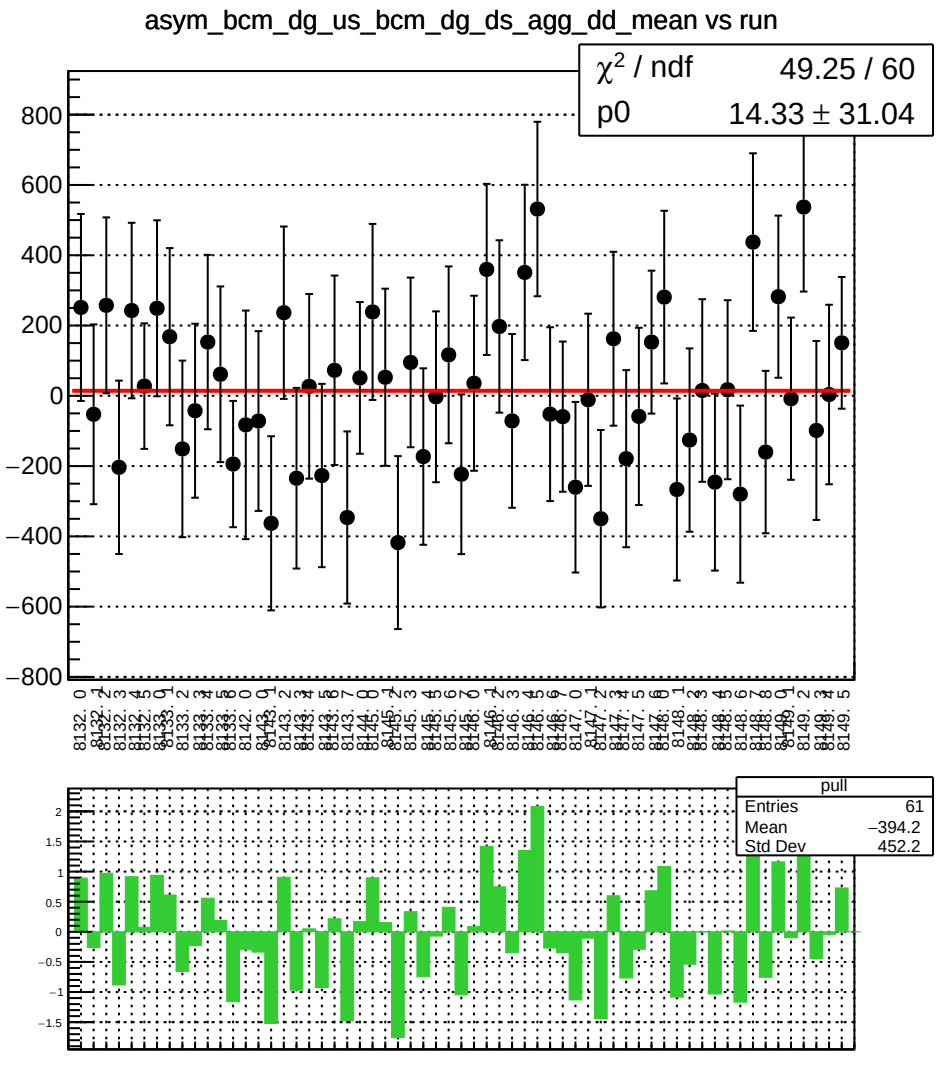

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 65.16 / 60
p0 −20.51± 22.23
pull
Entries 61
Mean −810
Std Dev 850.7

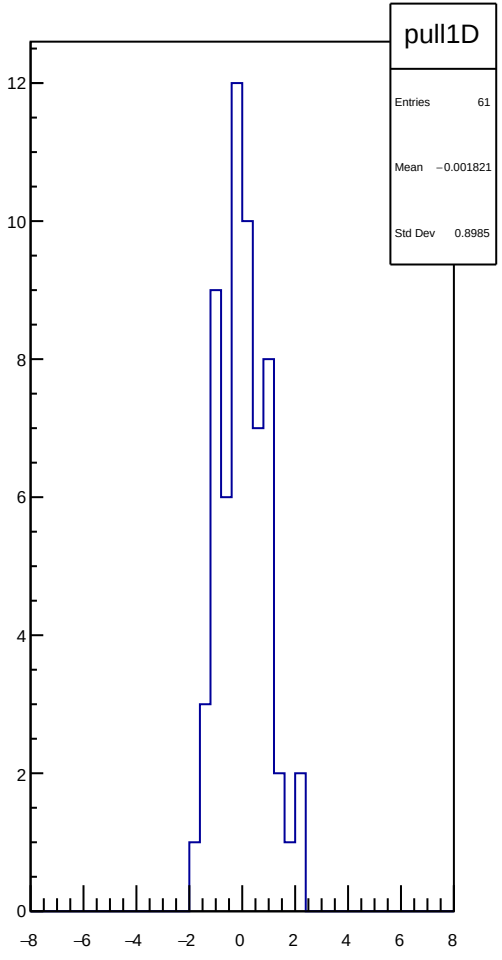

pull1D
Entries 61
Mean 0.003267
Std Dev 1.034

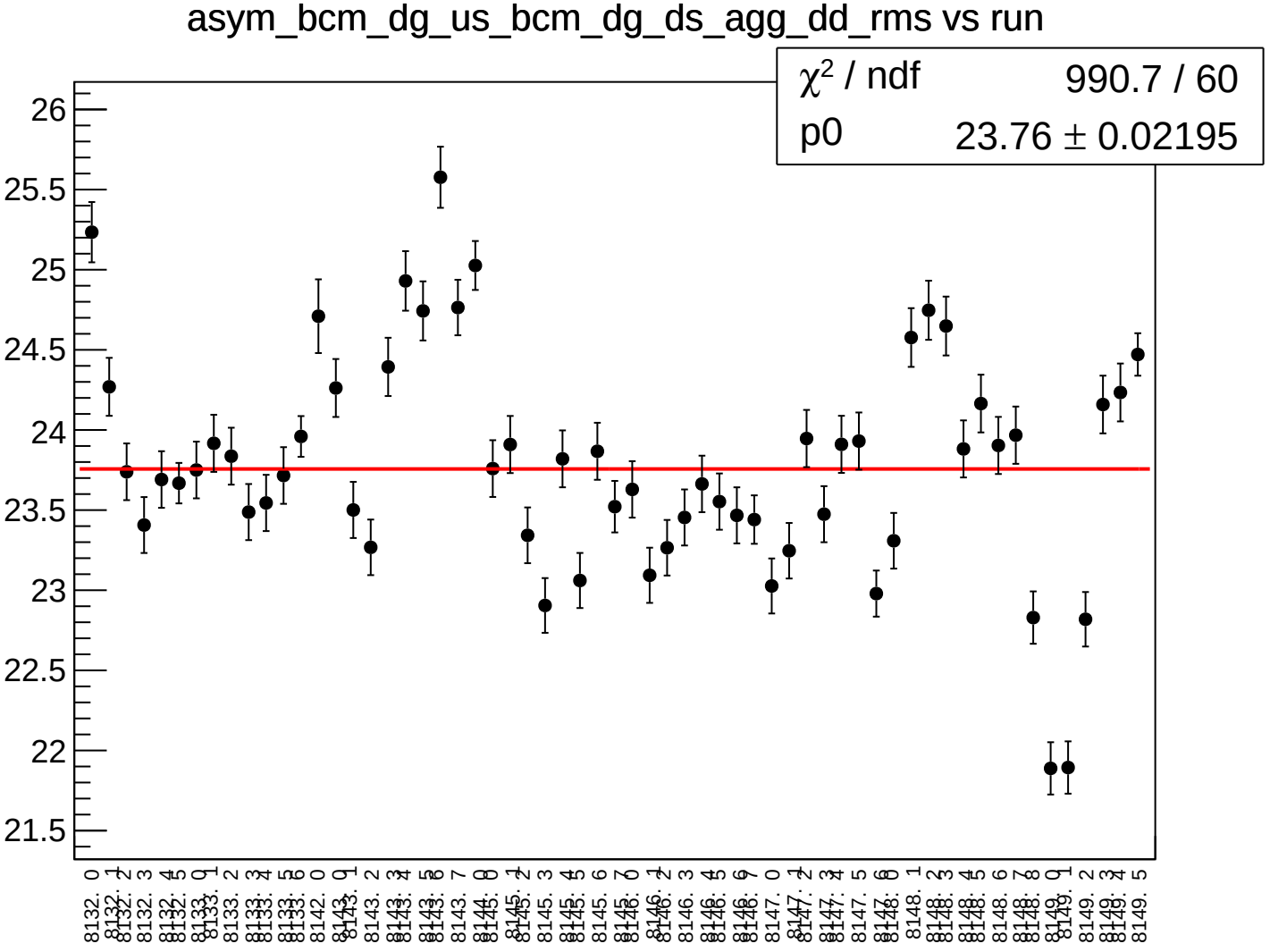

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2577 / 60
p0 17 ± 0.01572
19.5
19
18.5
18
17.5
17
16.5
16
15.5
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 0
8133. 1
8133. 2
8133. 3
8133. 4
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

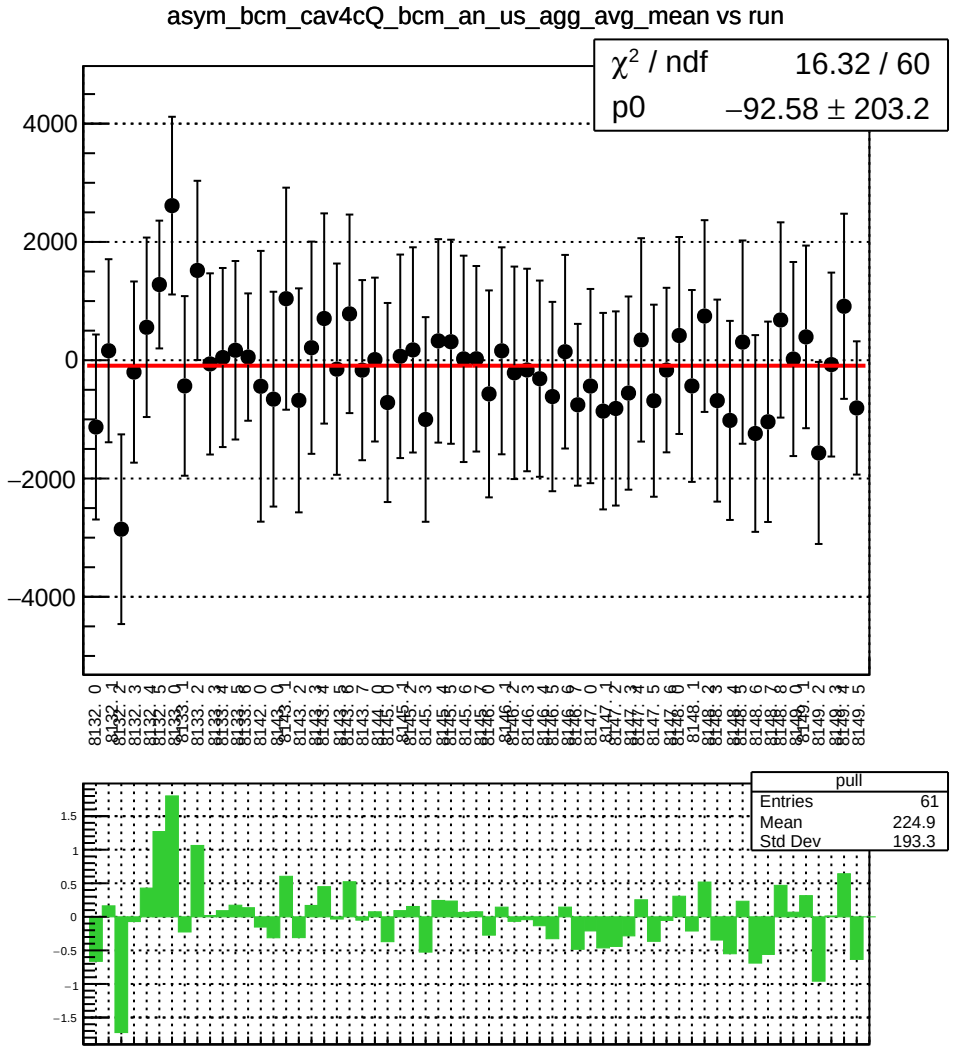

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 20.68 / 60
p0 −37.11 ± 199.6
4000
2000
0
−2000
−4000
pull
Entries 61
Mean 238.9
Std Dev 204.8
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 61
Mean −0.00937
Std Dev 0.5822
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

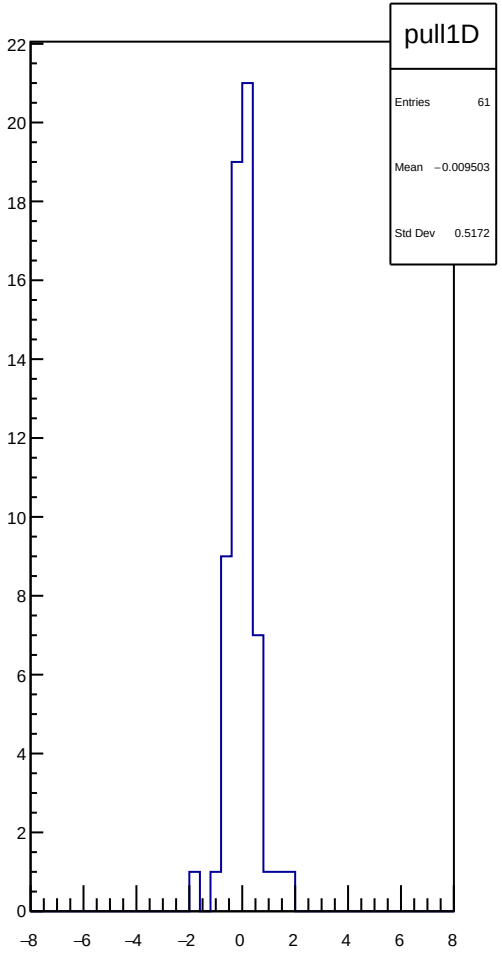

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2956 / 60
p0 152.6 ± 0.1411
175
170
165
160
155
150
145
140

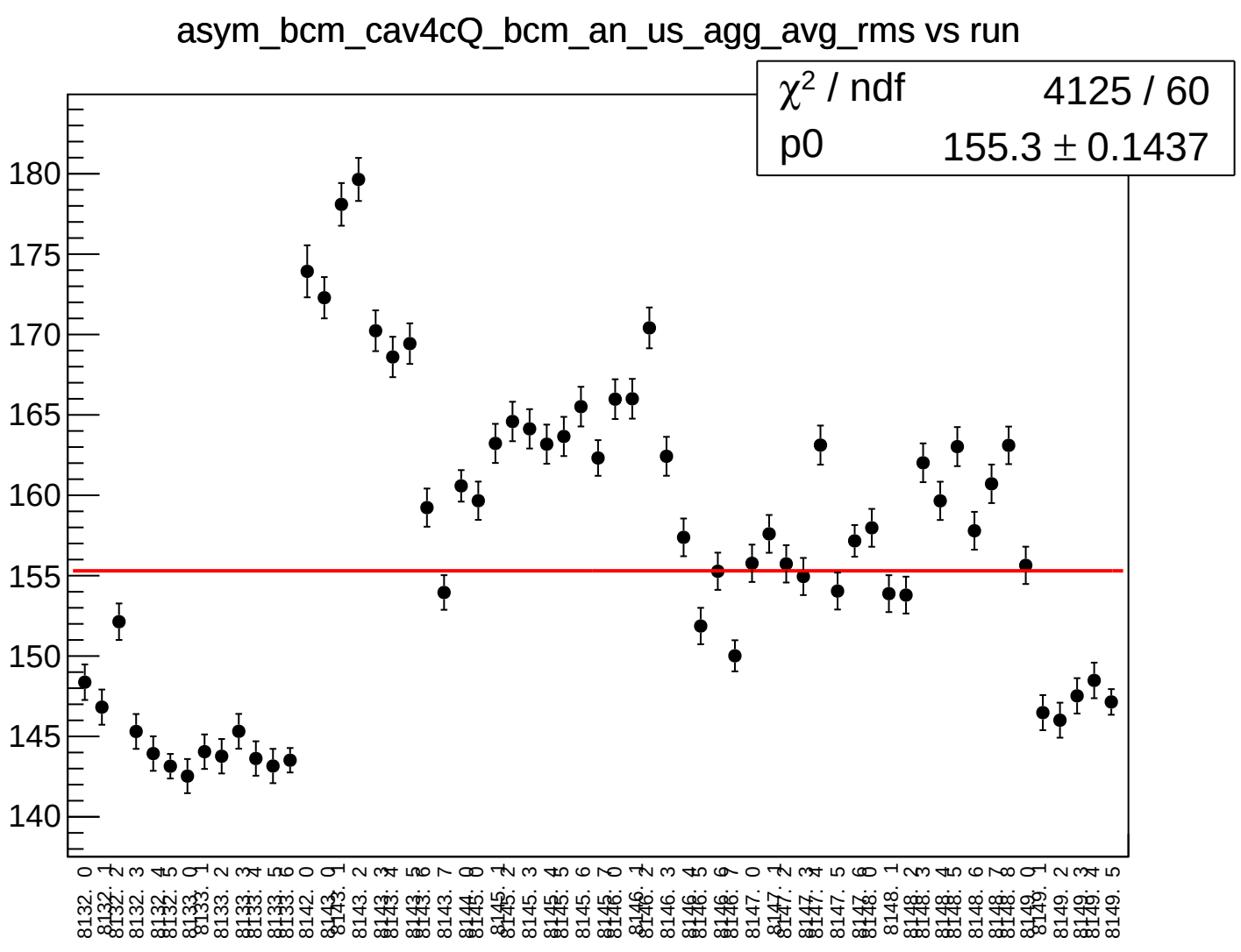

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 49.25 / 60
p0 14.33 ± 31.04
pull
Entries 61
Mean −394.2
Std Dev 452.2

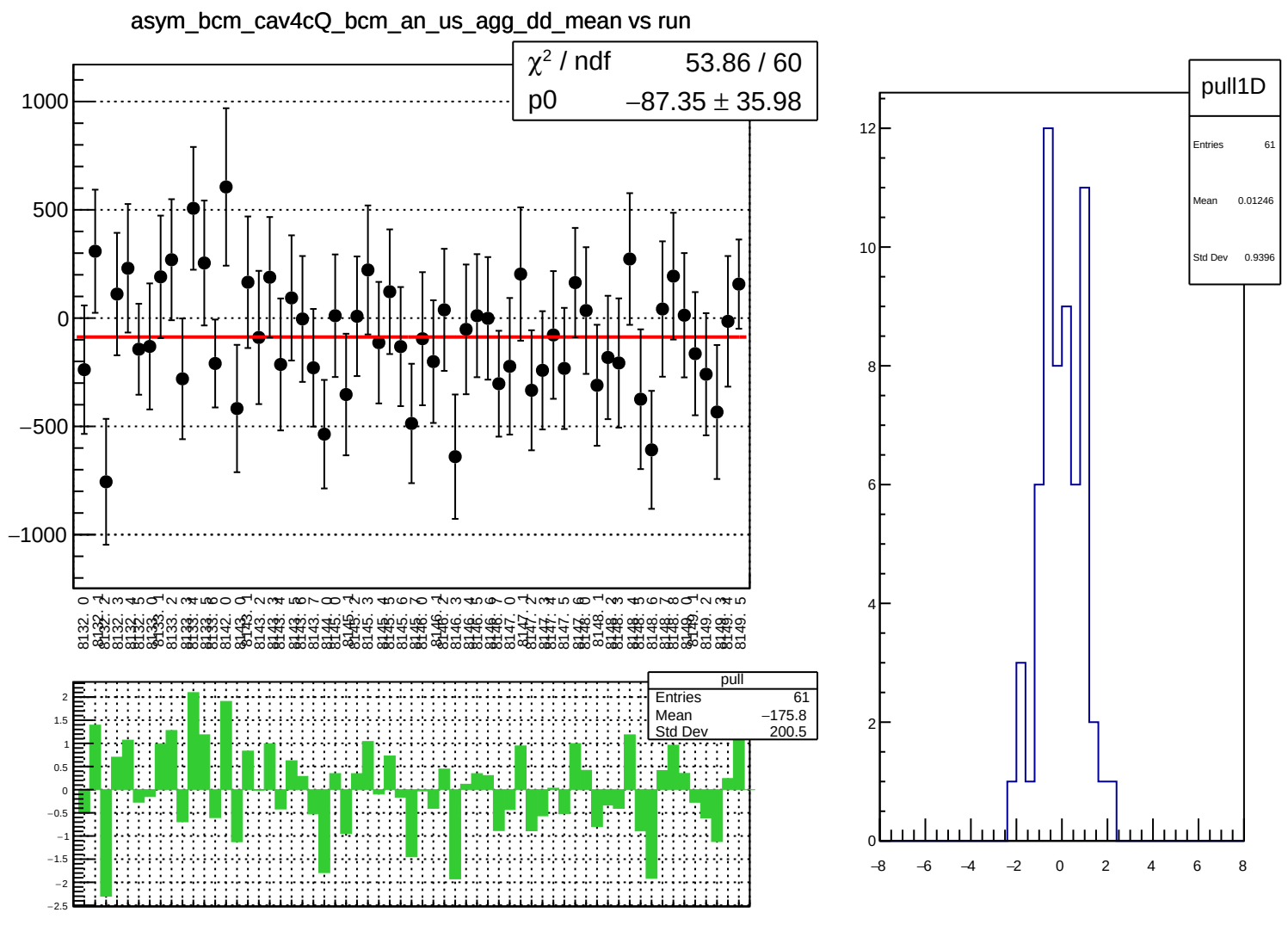

pull1D
Entries 61
Mean −0.001821
Std Dev 0.8985

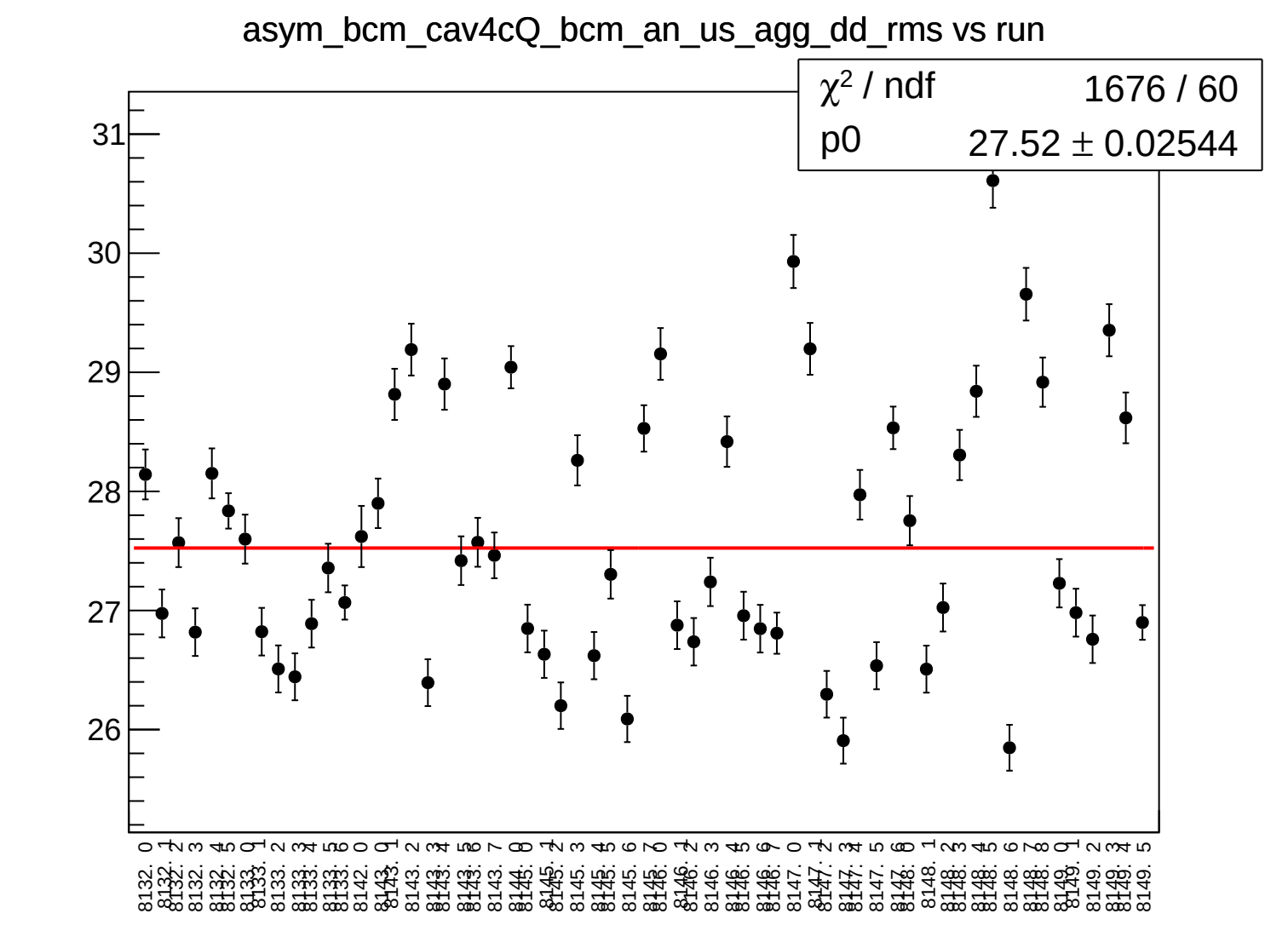

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 990.7 / 60
p0 23.76 ± 0.02195
26
25.5
25
24.5
24
23.5
23
22.5
22
21.5

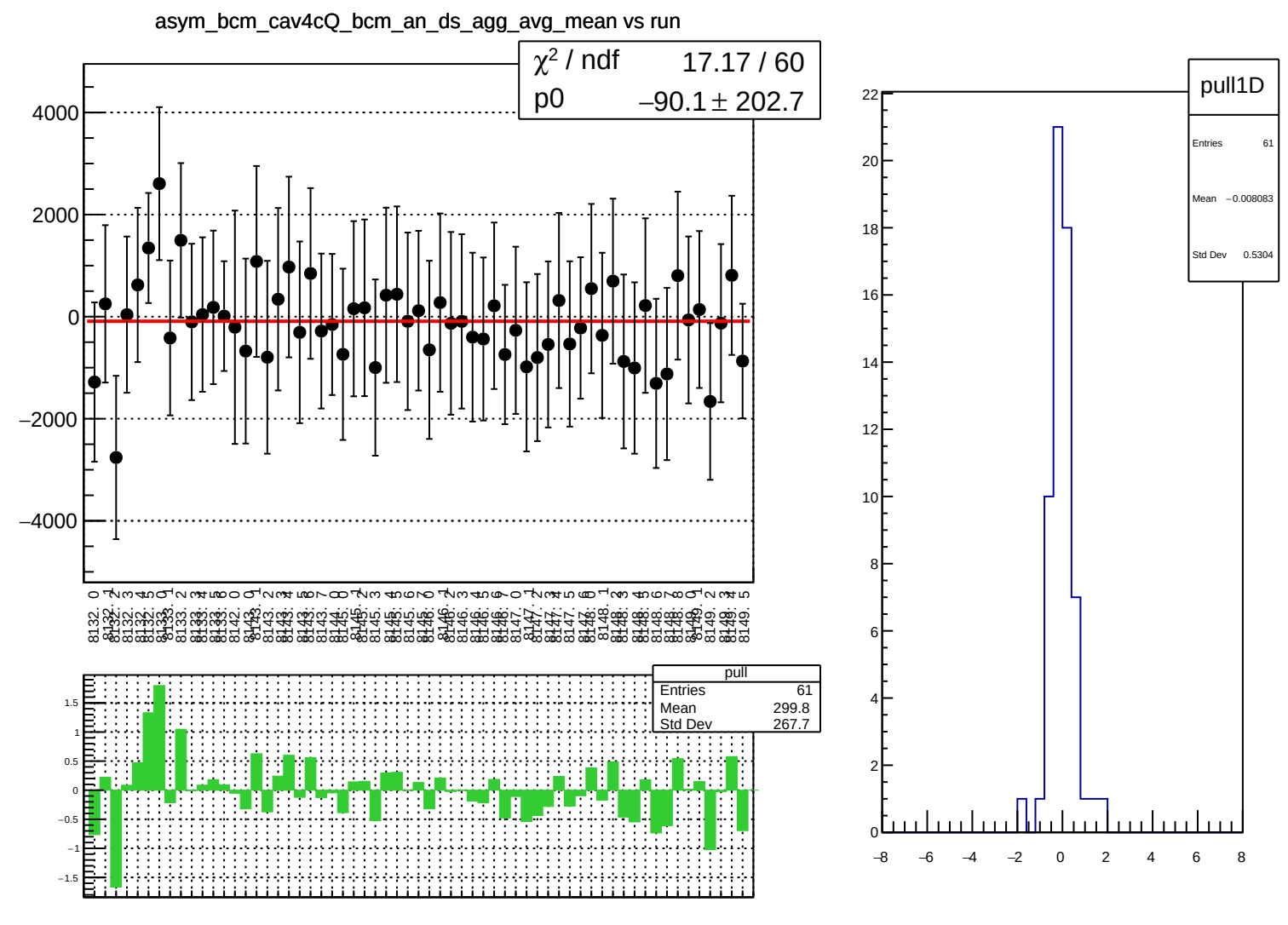

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 16.32 / 60
p0 −92.58 ± 203.2
4000
2000
0
−2000
−4000
pull
Entries 61
Mean 224.9
Std Dev 193.3
1.5
1
0.5
0
−0.5
−1
−1.5

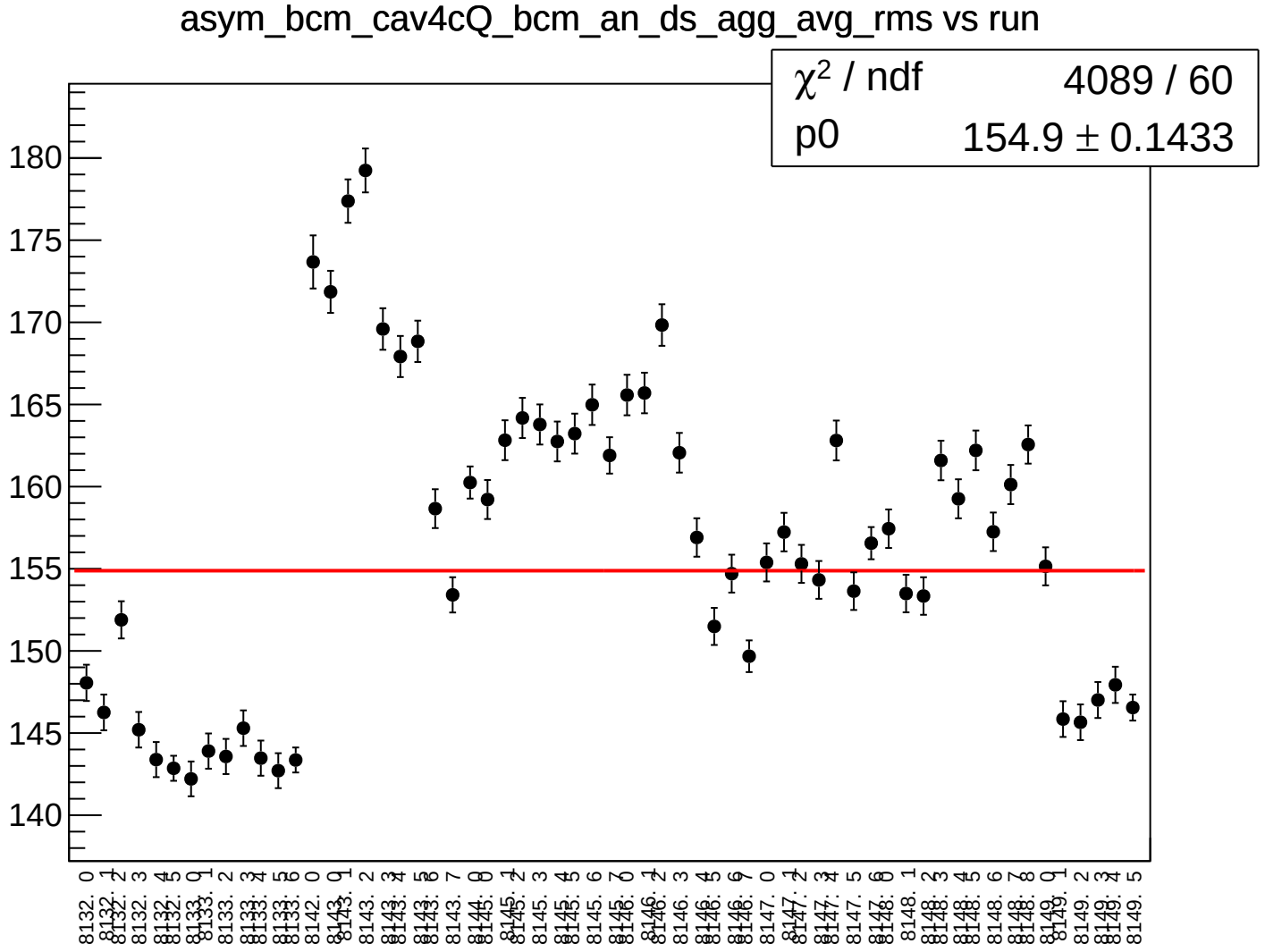

pull1D
Entries 61
Mean −0.009503
Std Dev 0.5172
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

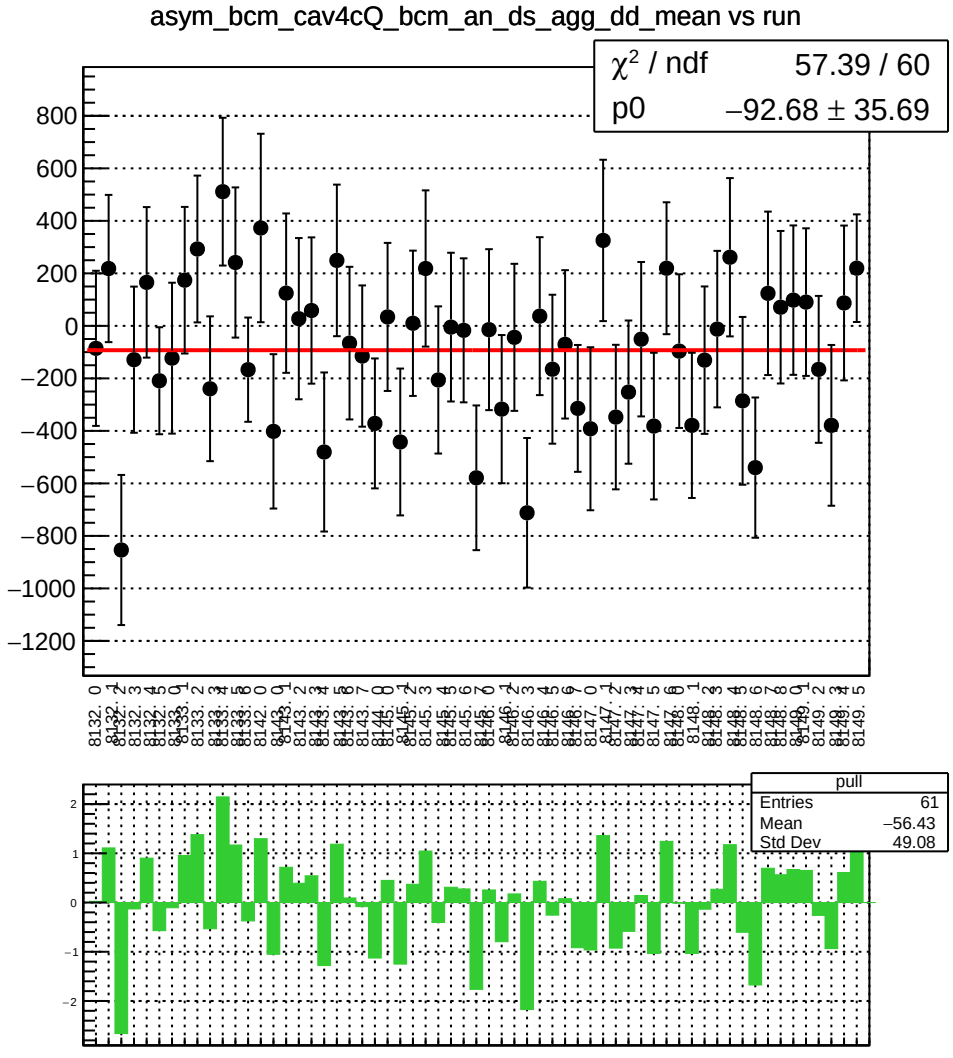

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4125 / 60
p0 155.3 ± 0.1437
180
175
170
165
160
155
150
145
140

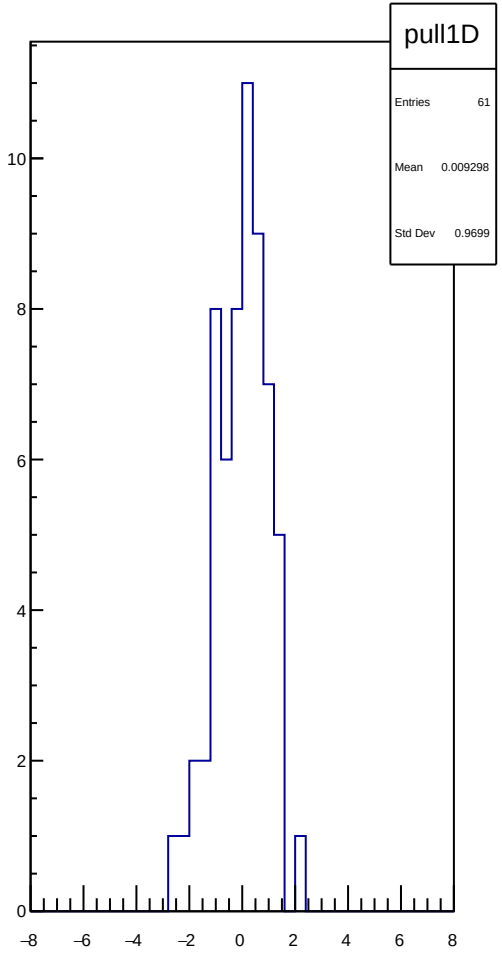

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 53.86 / 60
p0 −87.35 ± 35.98
1000
500
0
−500
−1000
pull
Entries 61
Mean −175.8
Std Dev 200.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 61
Mean 0.01246
Std Dev 0.9396
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

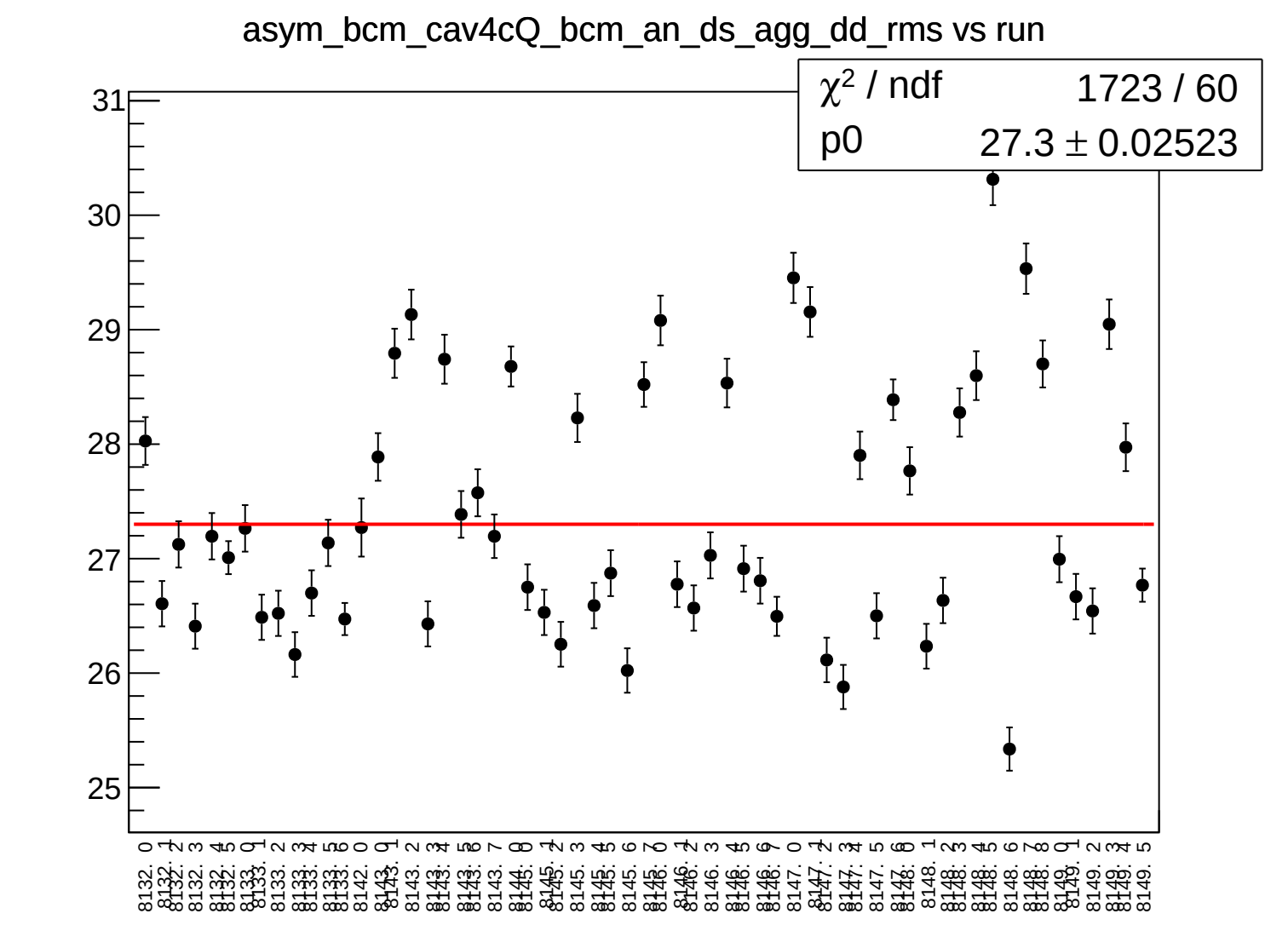

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1676 / 60
p0 27.52 ± 0.02544
31
30
29
28
27
26

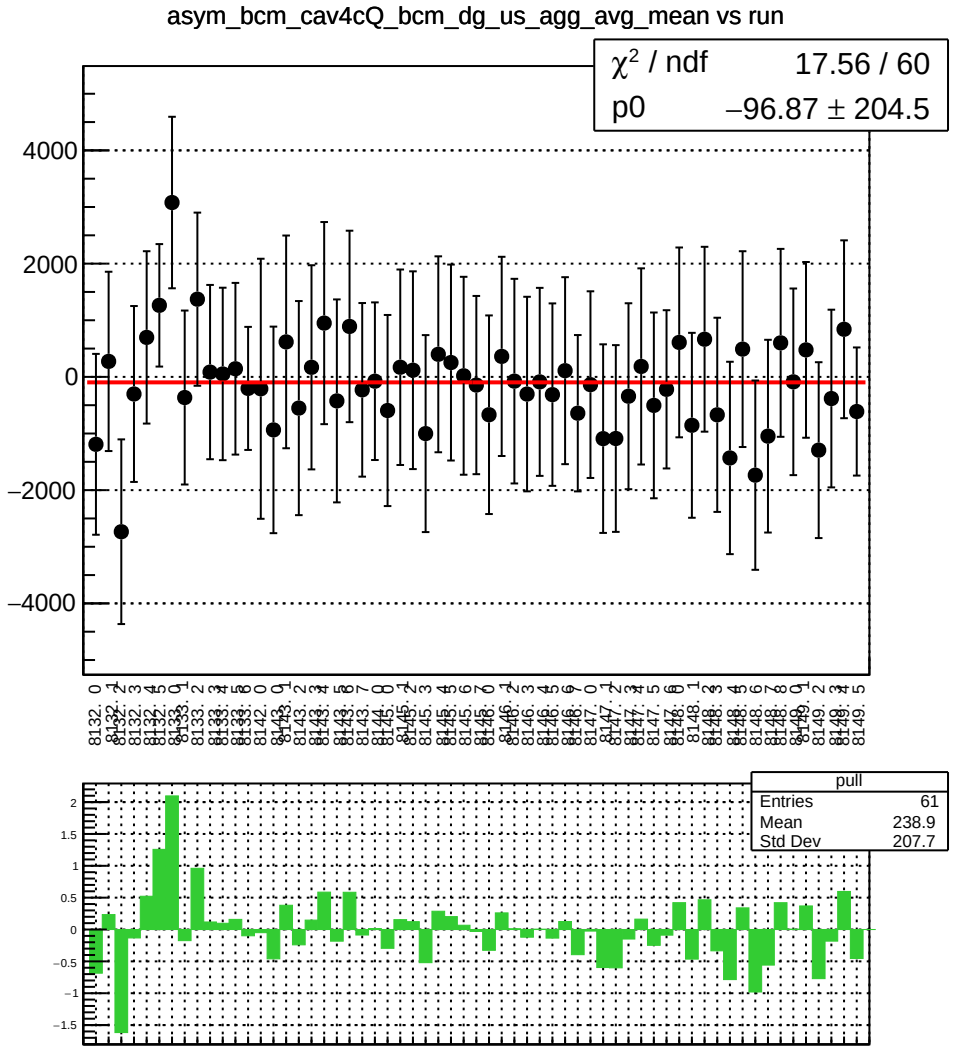

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.17 / 60
p0 −90.1 ± 202.7
4000
2000
0
−2000
−4000
pull
Entries 61
Mean 299.8
Std Dev 267.7
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 61
Mean −0.008083
Std Dev 0.5304
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

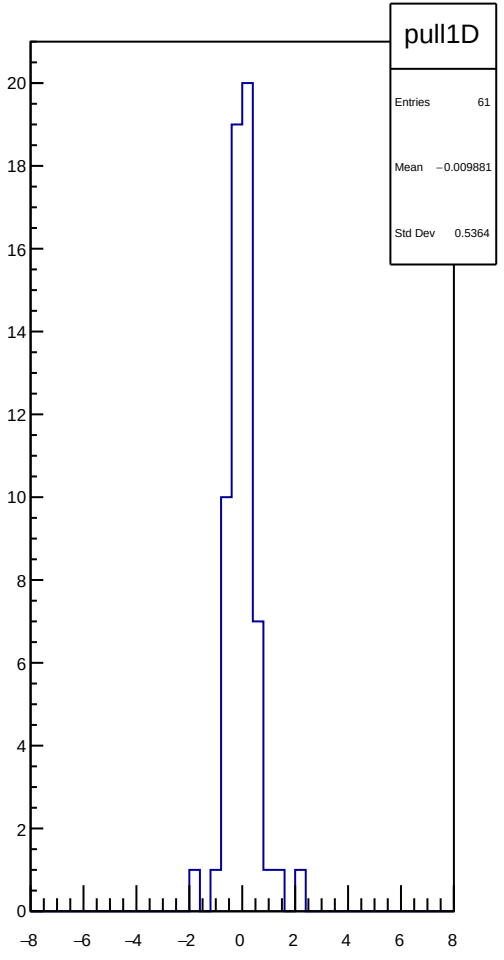

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4089 / 60
p0 154.9 ± 0.1433
180
175
170
165
160
155
150
145
140

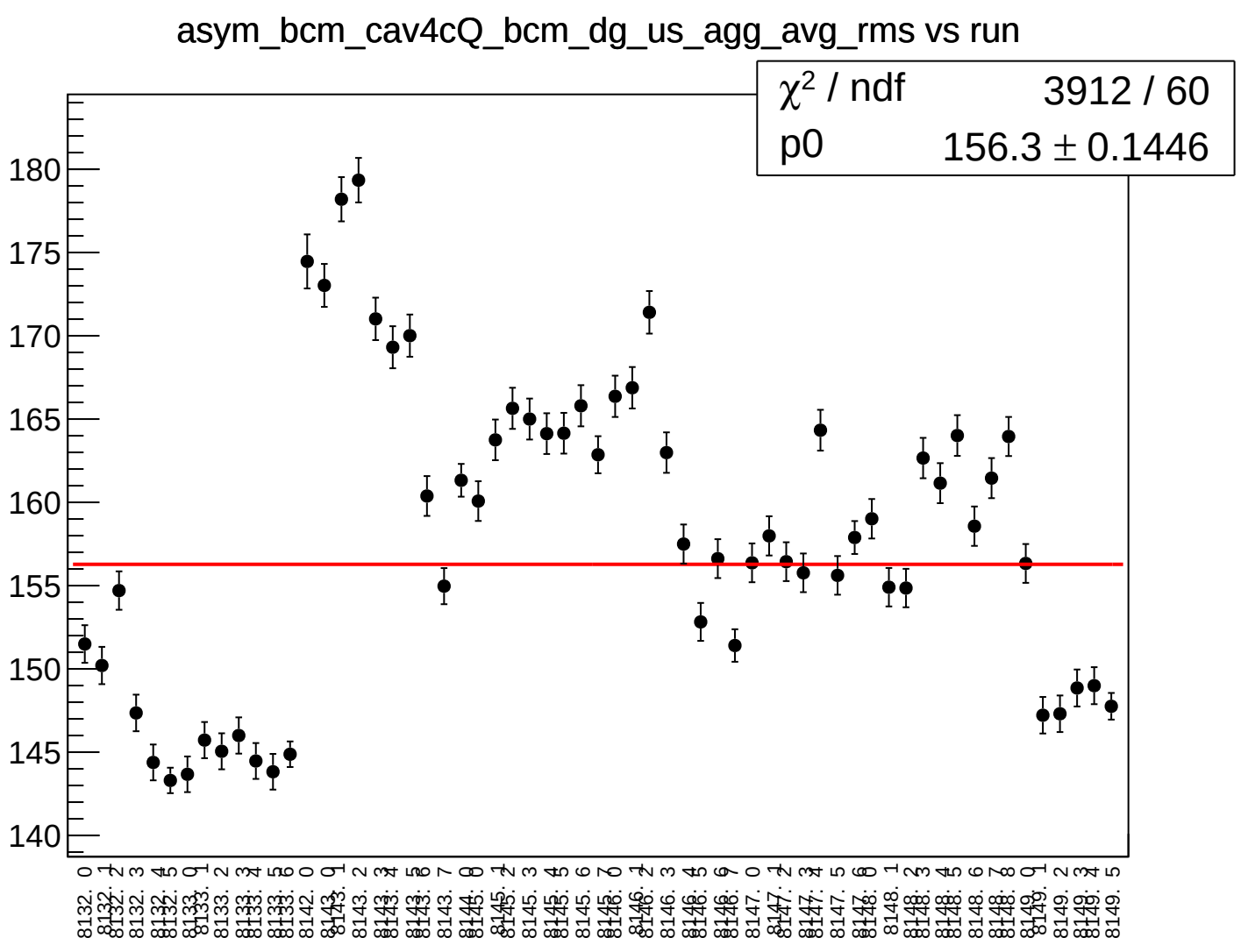

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 57.39 / 60
p0 −92.68 ± 35.69
pull
Entries 61
Mean −56.43
Std Dev 49.08

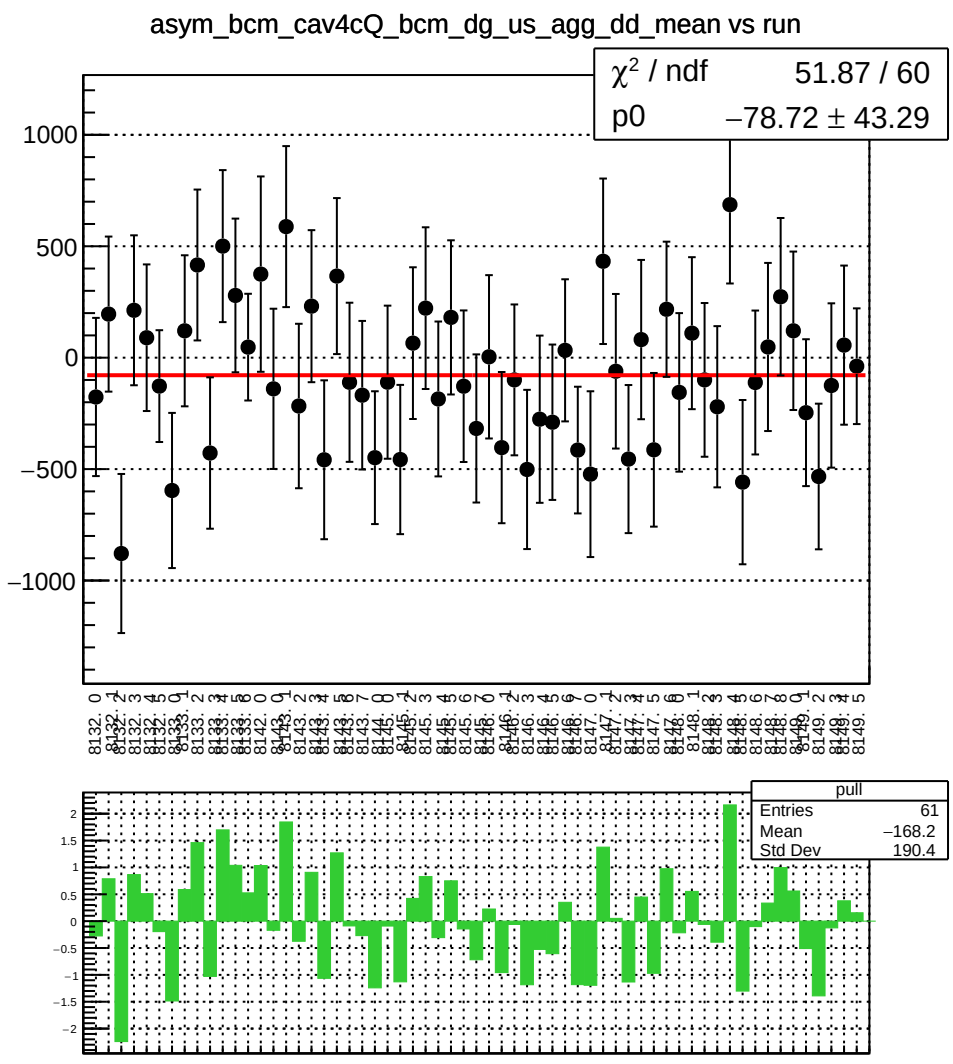

pull1D
Entries 61
Mean 0.009298
Std Dev 0.9699

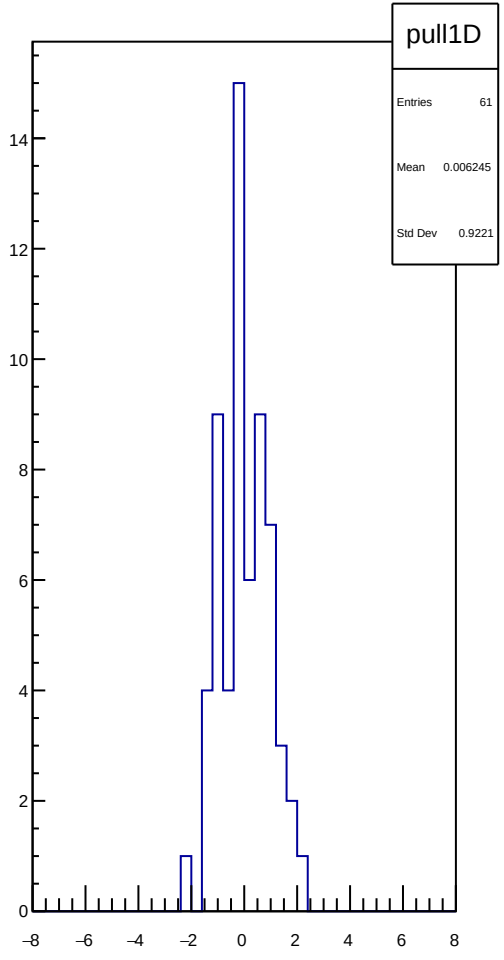

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1723 / 60
p0 27.3 ± 0.02523
31
30
29
28
27
26
25

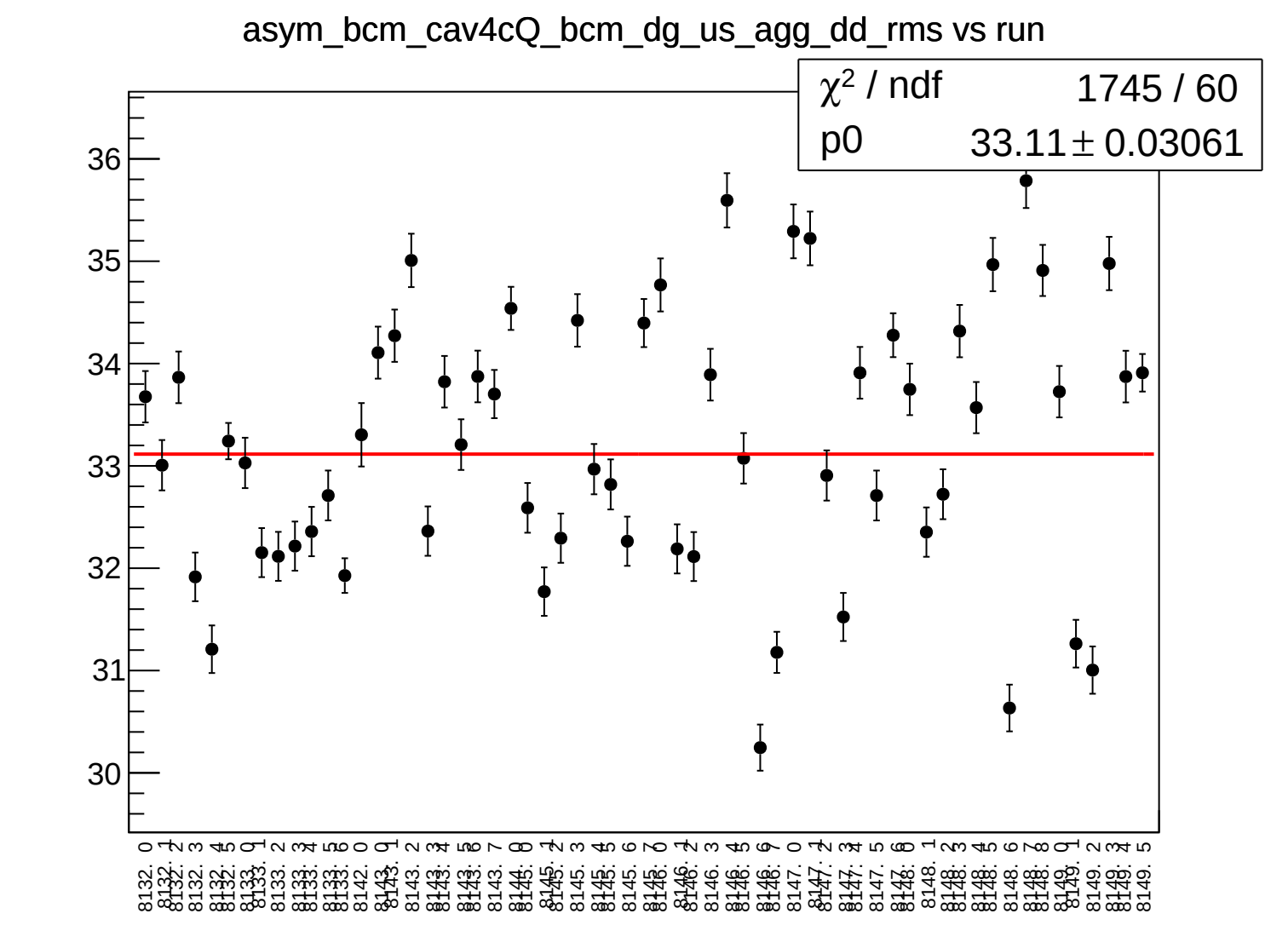

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 17.56 / 60
p0 −96.87 ± 204.5
4000
2000
0
−2000
−4000
pull
Entries 61
Mean 238.9
Std Dev 207.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

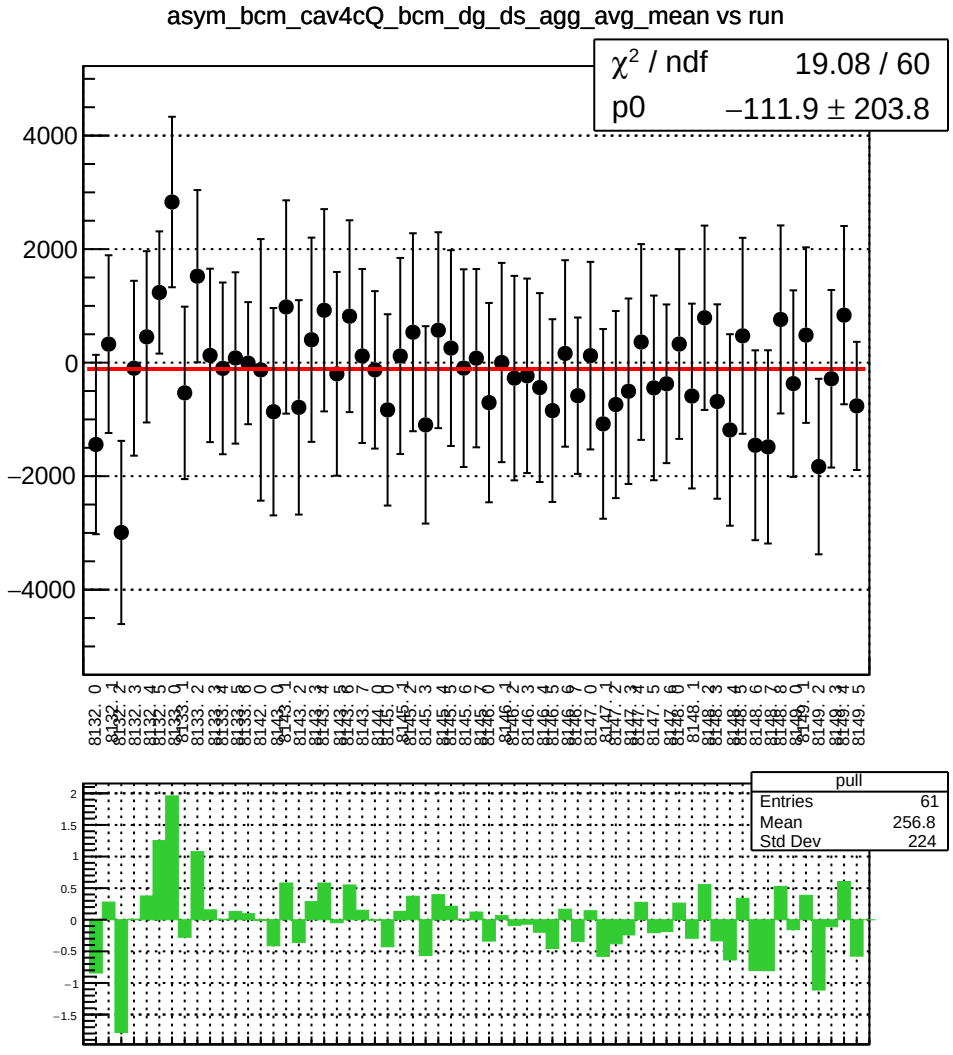

pull1D
Entries 61
Mean −0.009881
Std Dev 0.5364
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

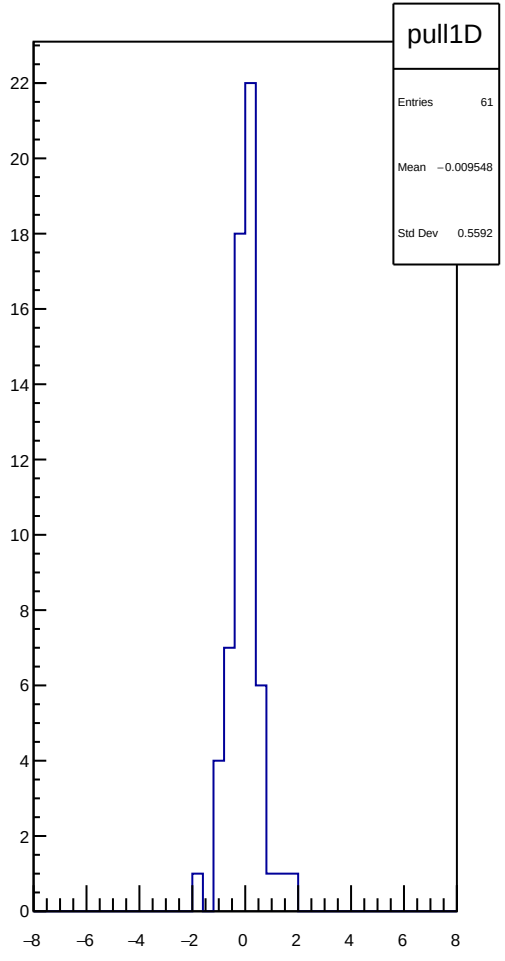

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3912 / 60
p0 156.3 ± 0.1446
180
175
170
165
160
155
150
145
140

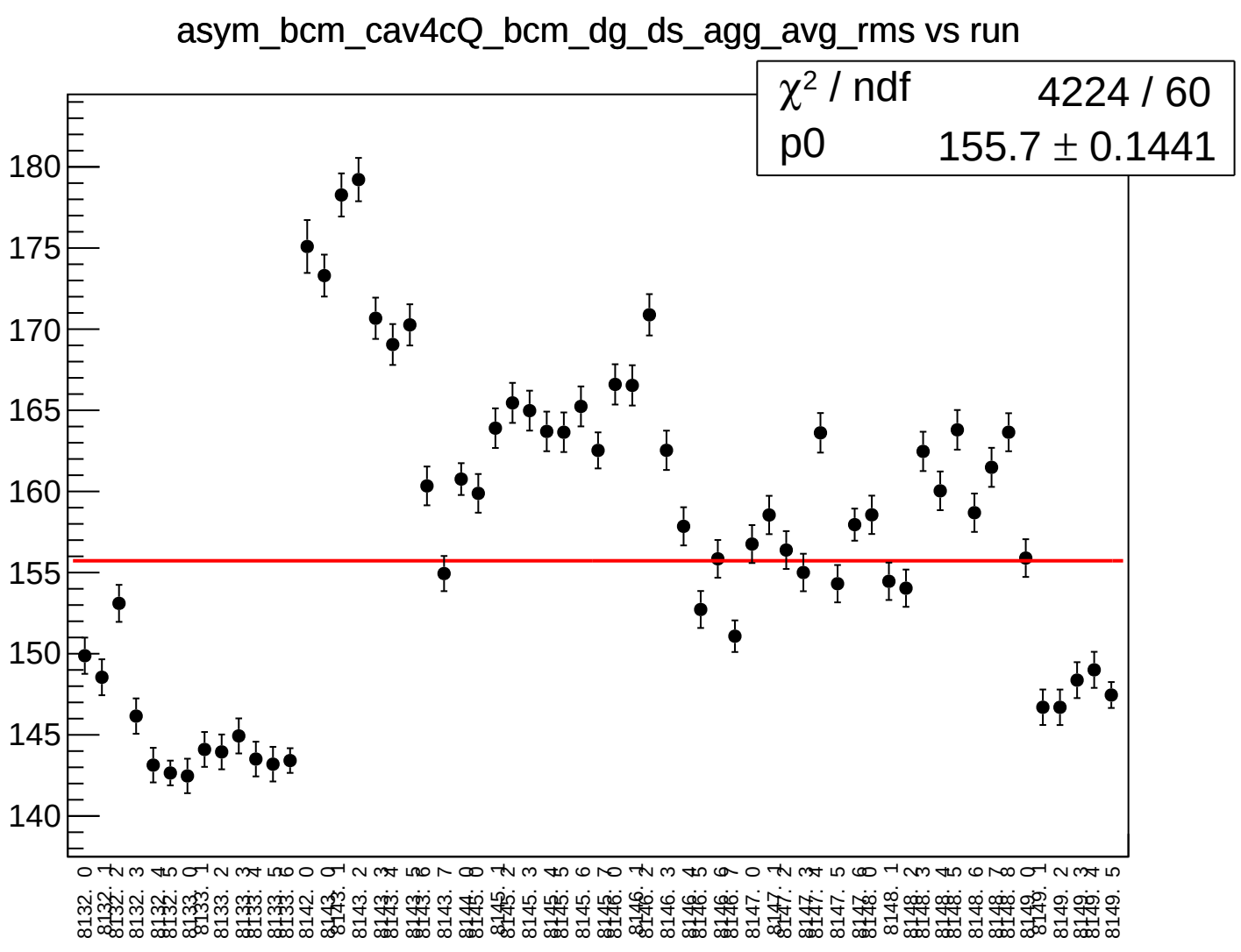

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 51.87 / 60
p0 −78.72 ± 43.29
1000
500
0
−500
−1000
pull
Entries 61
Mean −168.2
Std Dev 190.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

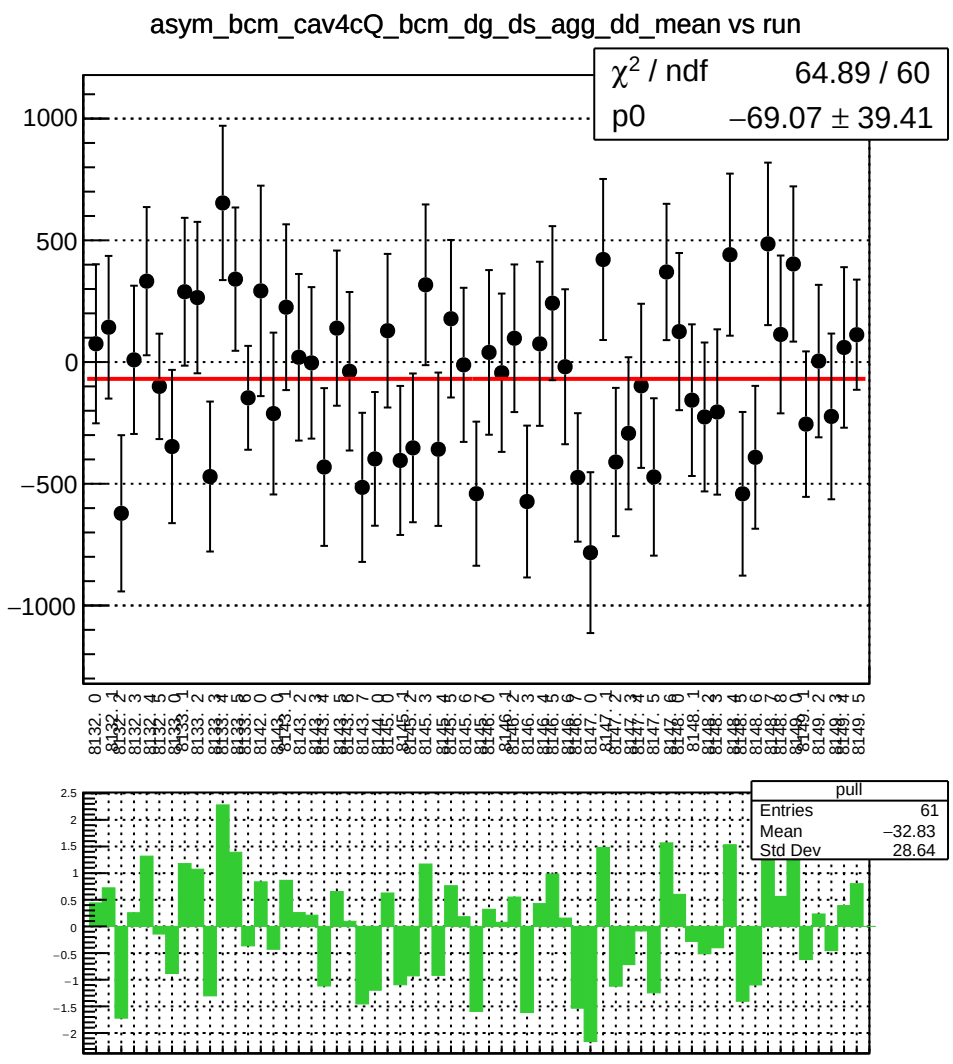

pull1D
Entries 61
Mean 0.006245
Std Dev 0.9221
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

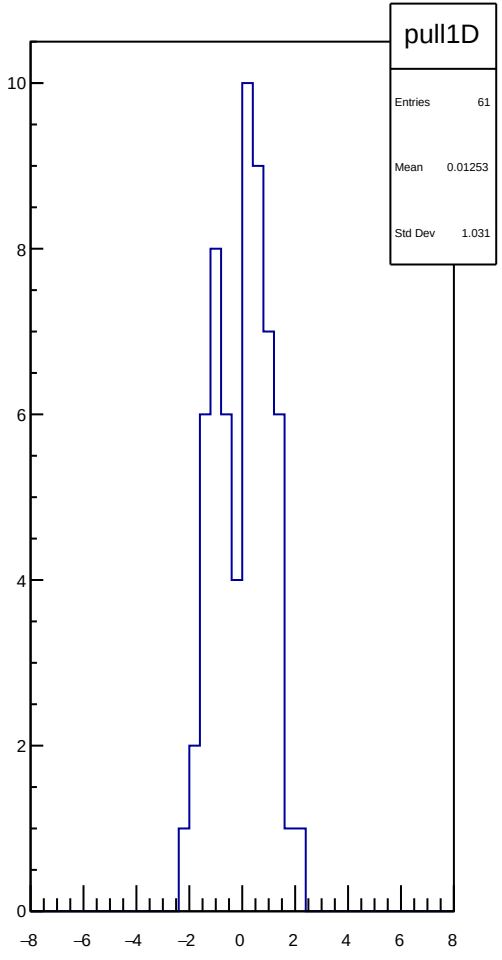

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1745 / 60
p0 33.11 ± 0.03061
36
35
34
33
32
31
30

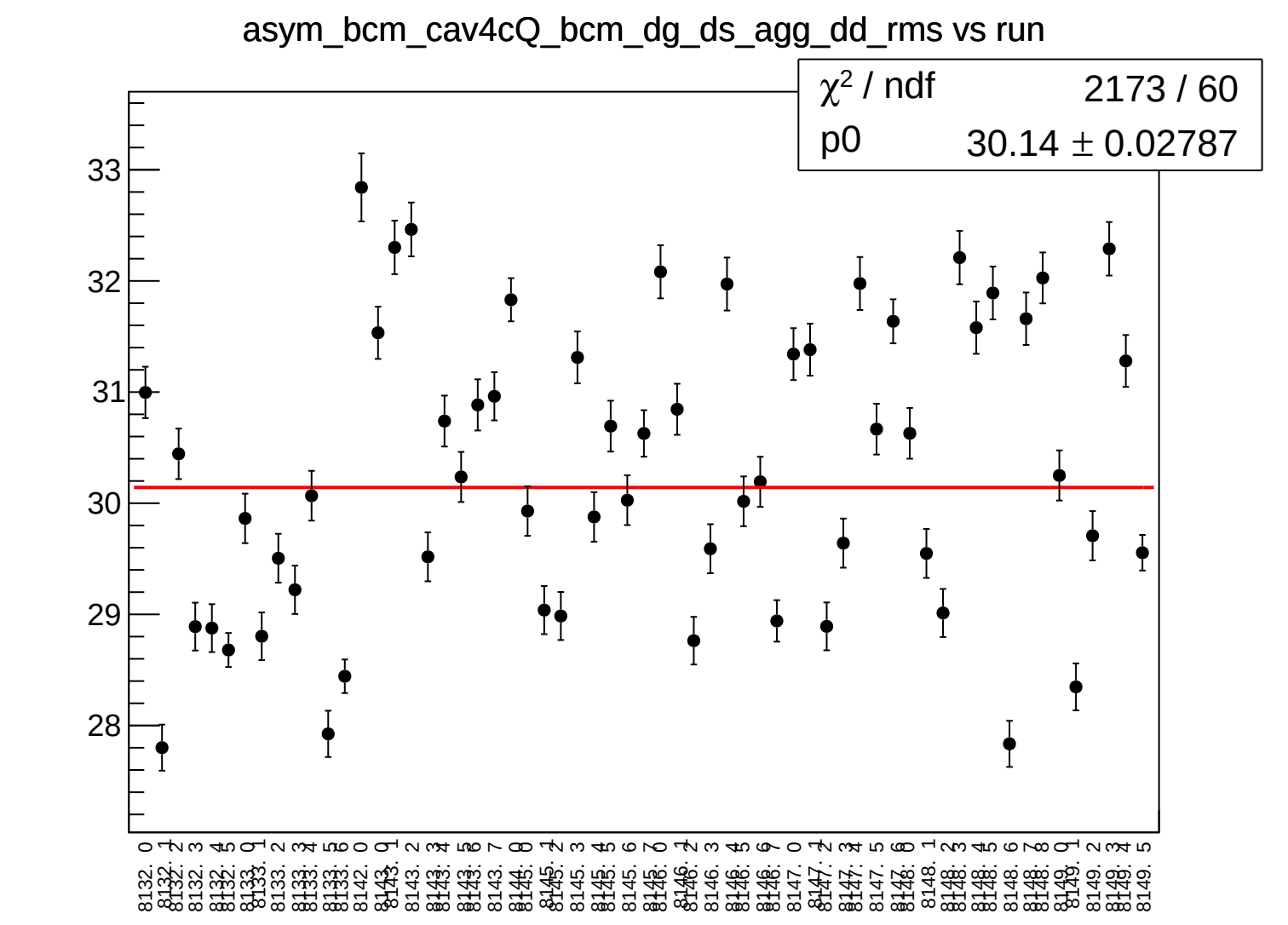

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 19.08 / 60
p0 −111.9 ± 203.8
4000
2000
0
−2000
−4000
pull
Entries 61
Mean 256.8
Std Dev 224
2
1.5
1
0.5
0
−0.5
−1
−1.5

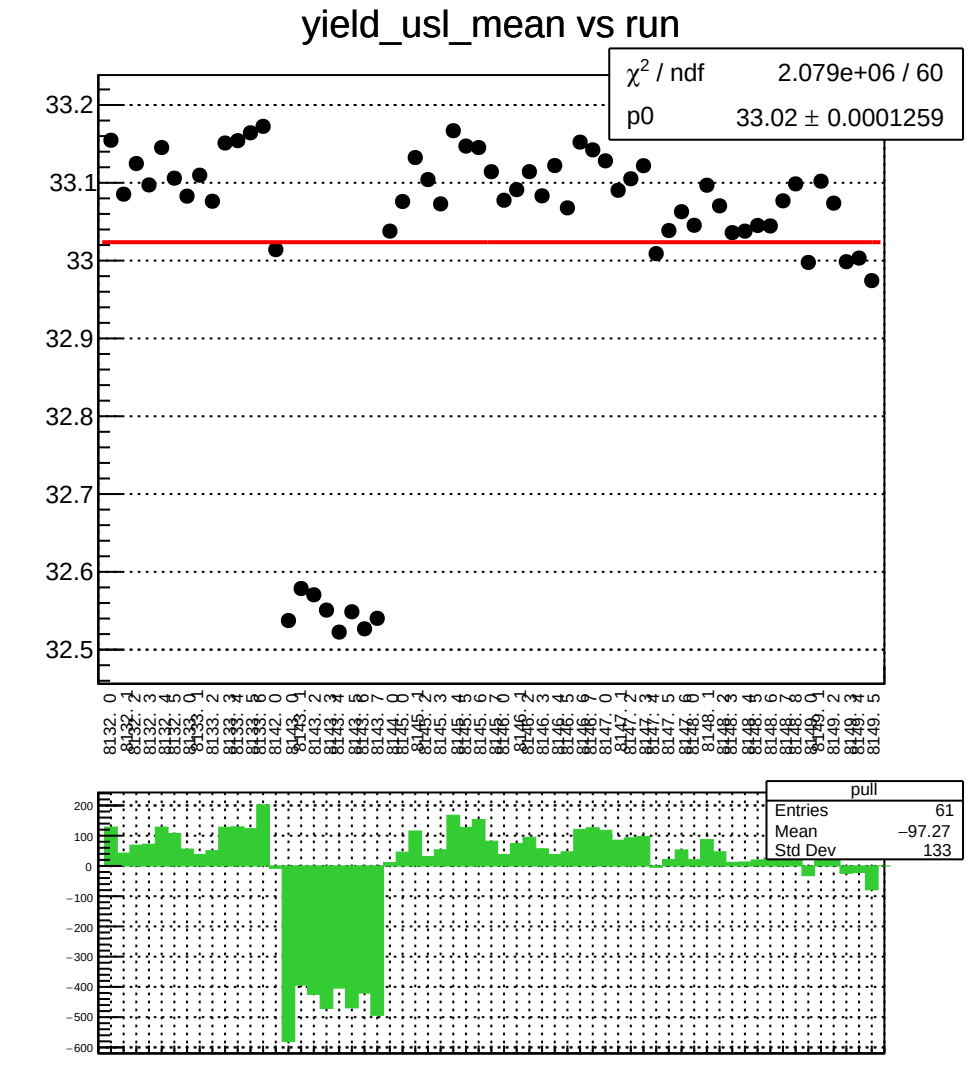

pull1D
Entries 61
Mean −0.009548
Std Dev 0.5592
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

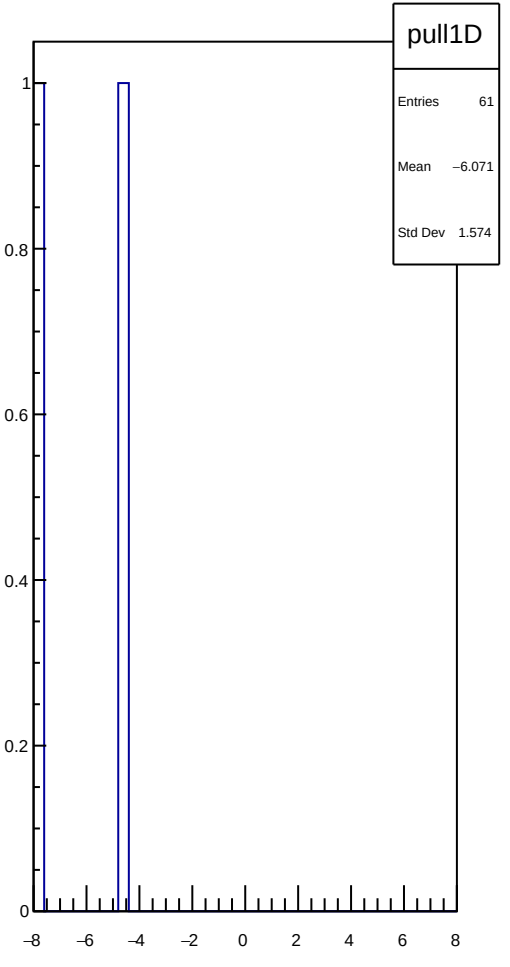

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4224 / 60
p0 155.7 ± 0.1441
180
175
170
165
160
155
150
145
140

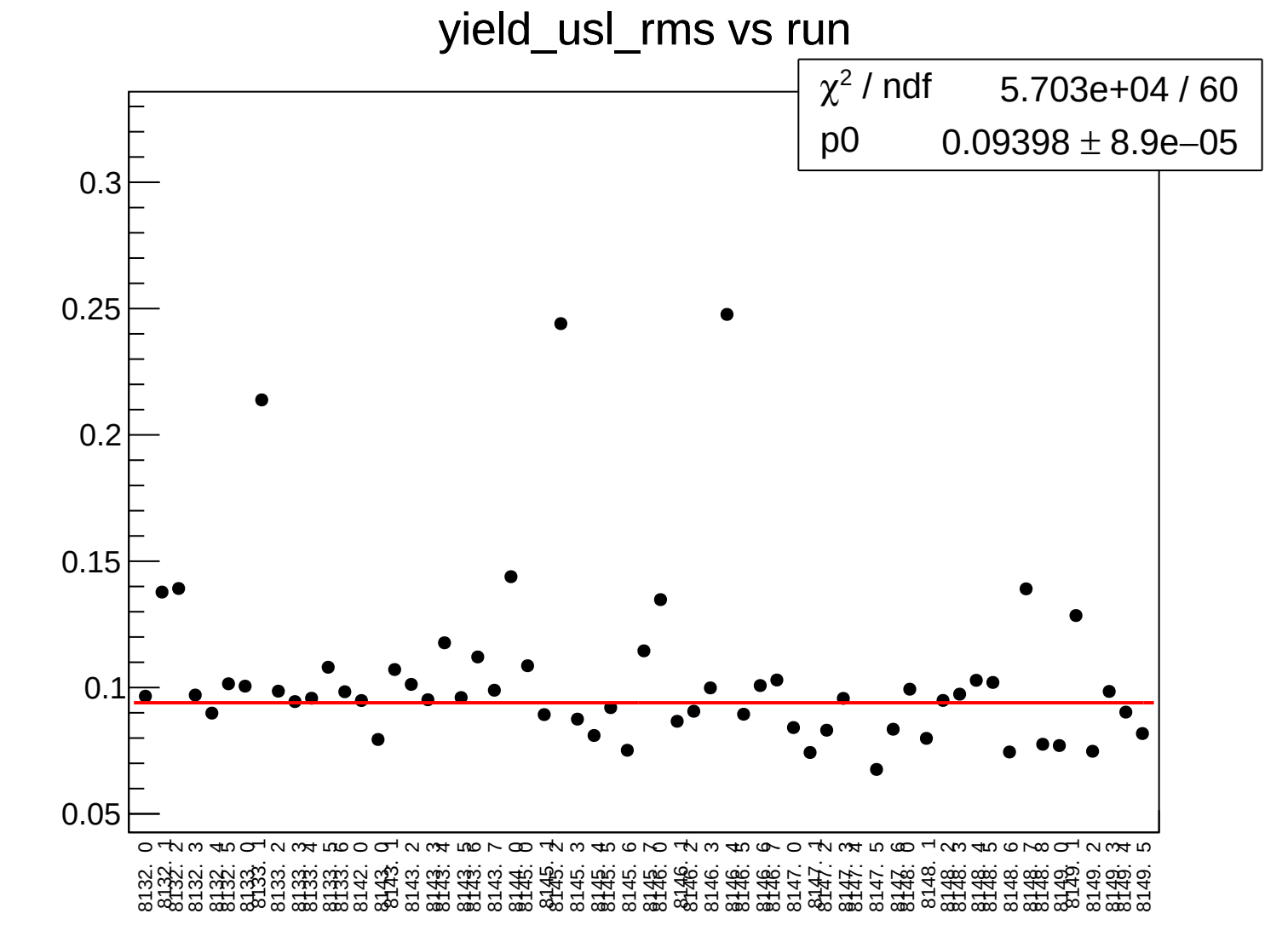

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 64.89 / 60
p0 −69.07 ± 39.41
1000
500
0
−500
−1000
pull
Entries 61
Mean −32.83
Std Dev 28.64
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

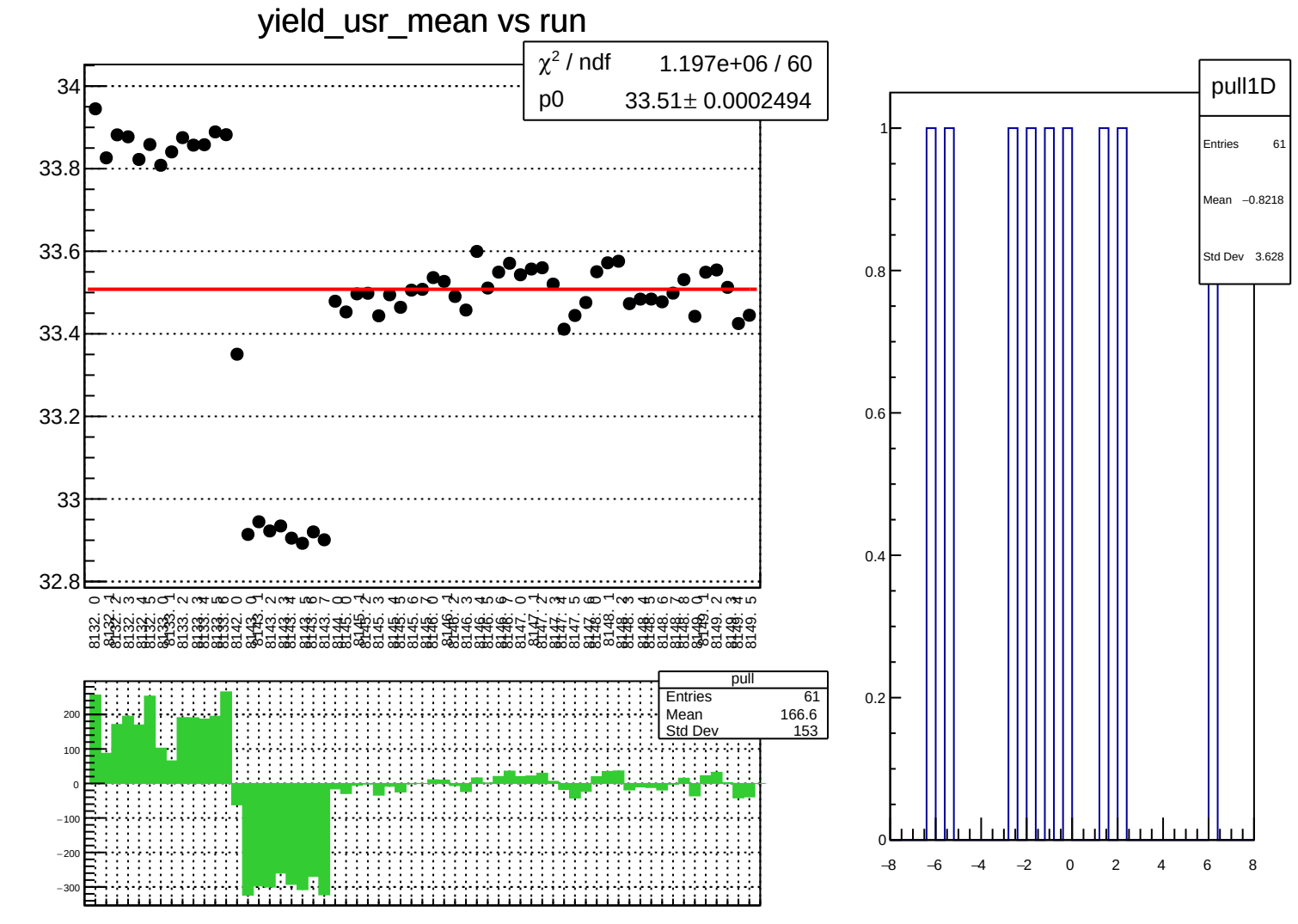

pull1D
Entries 61
Mean 0.01253
Std Dev 1.031
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

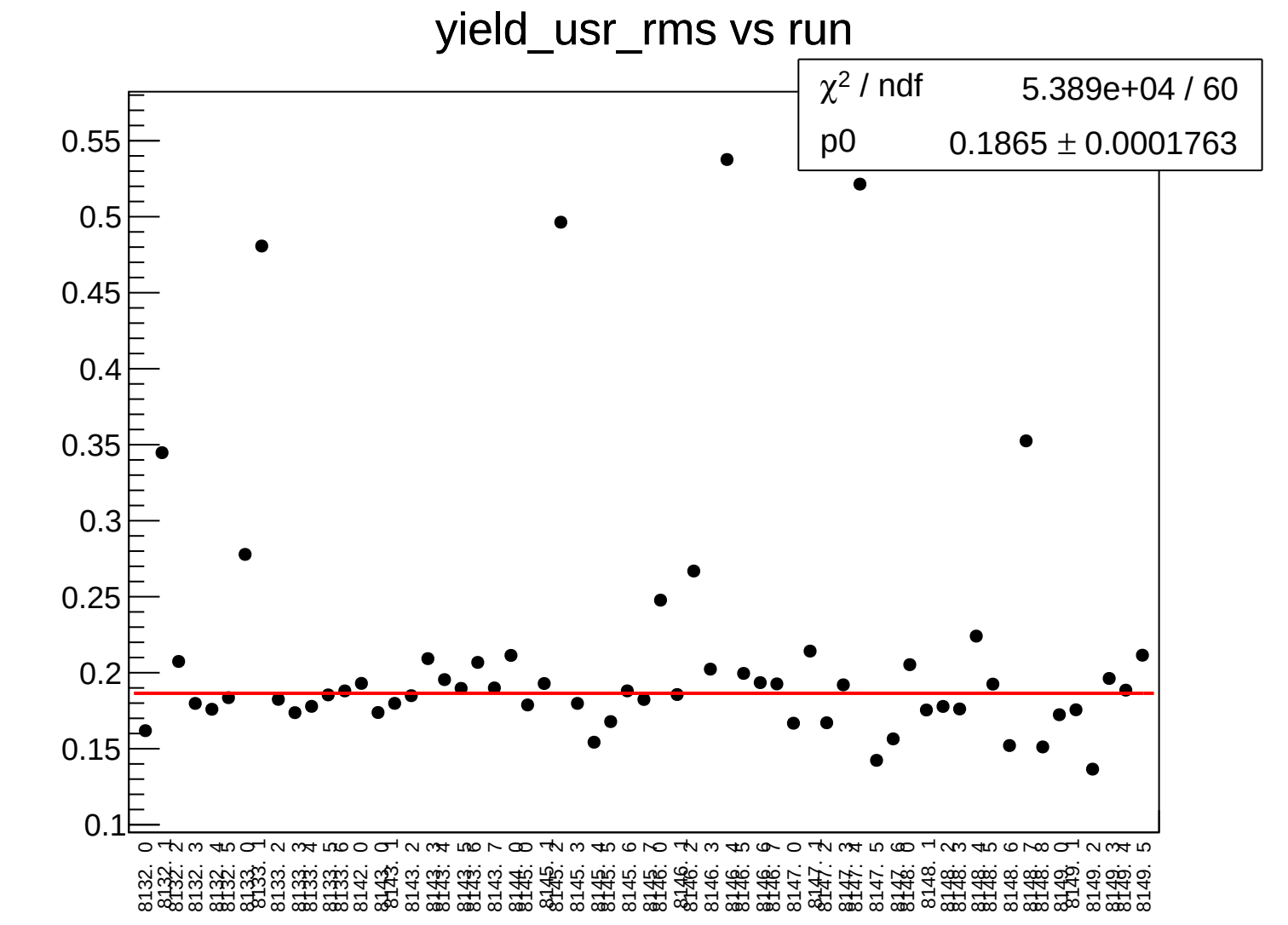

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2173 / 60
p0 30.14 ± 0.02787
33
32
31
30
29
28

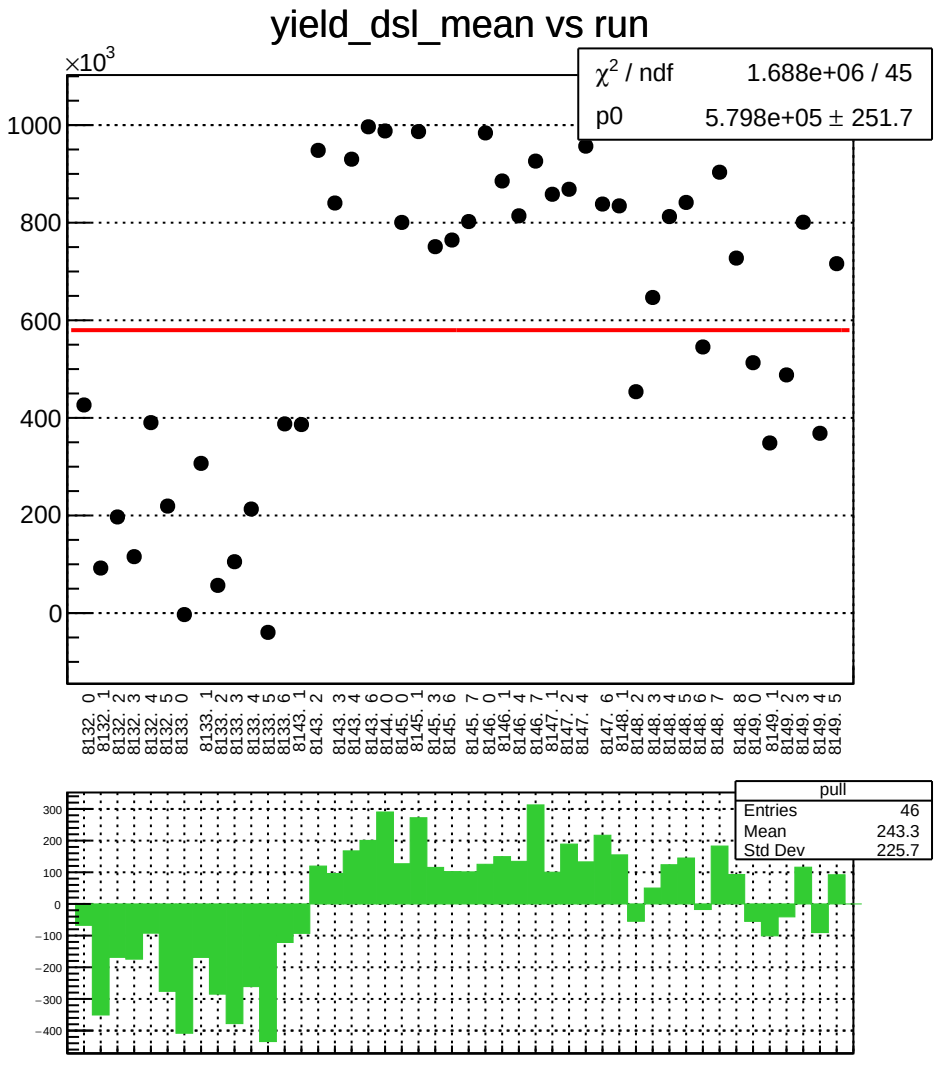

yield_usl_mean vs run
χ² / ndf 2.079e+06 / 60
p0 33.02 ± 0.0001259
pull
Entries 61
Mean −97.27
Std Dev 133

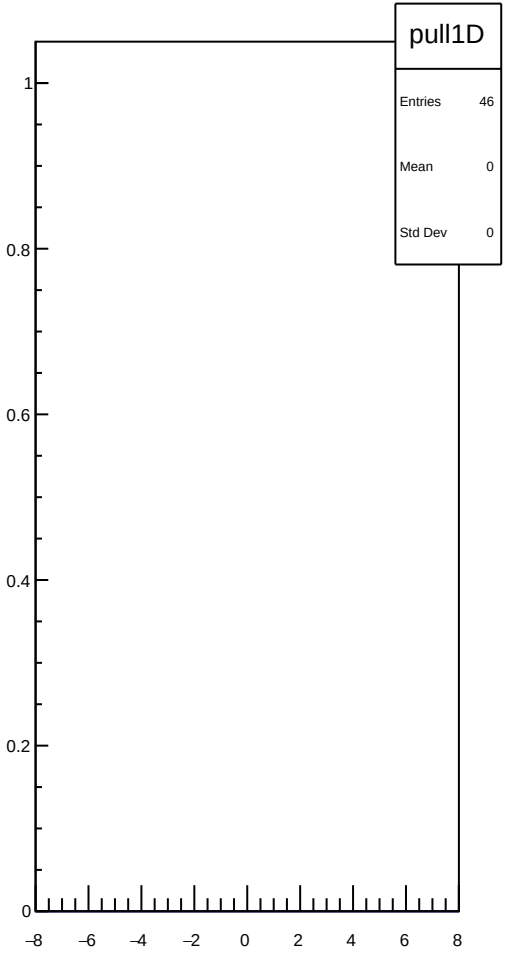

pull1D
Entries 61
Mean −6.071
Std Dev 1.574

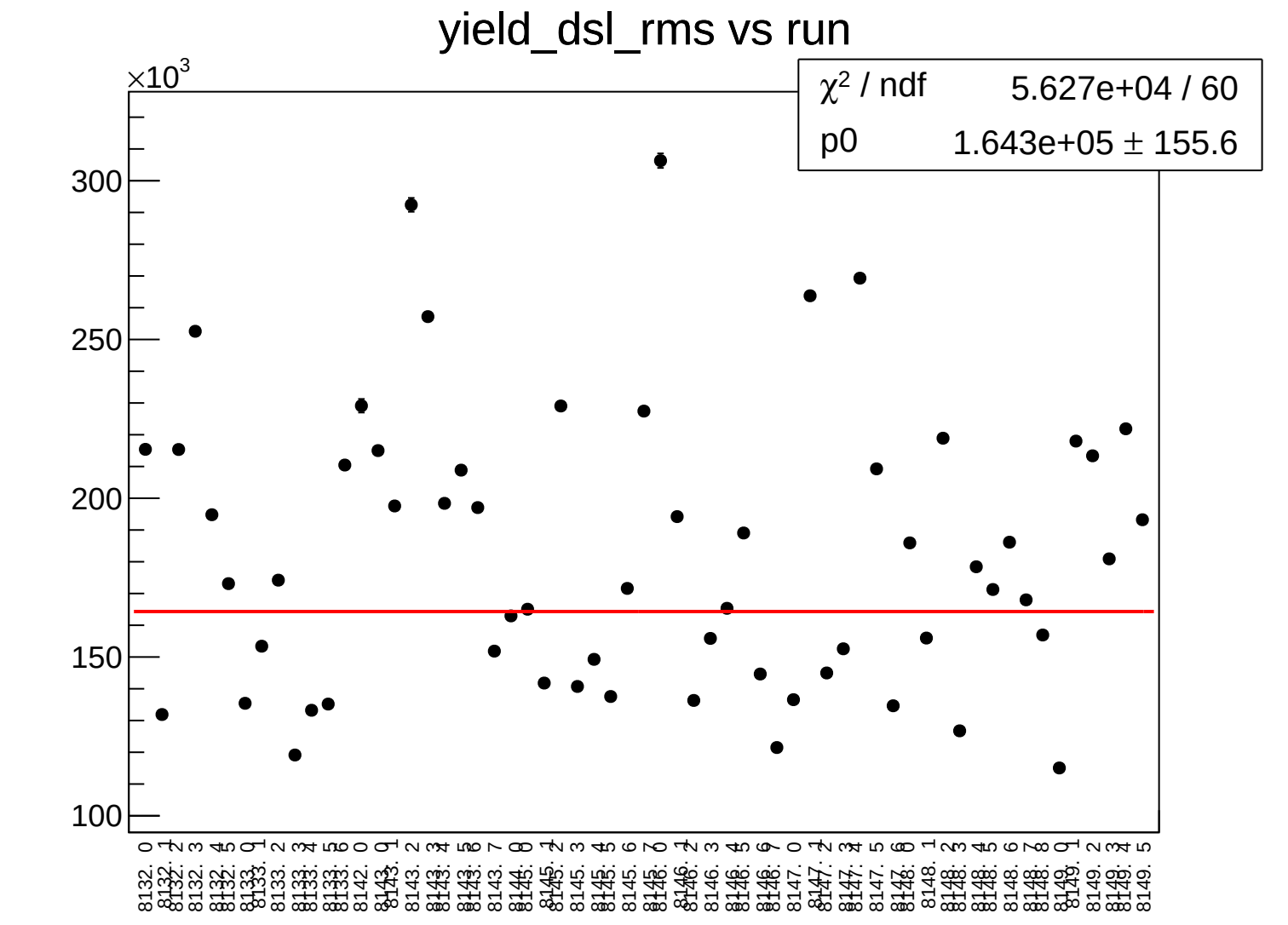

yield_usl_rms vs run
χ^2 / ndf 5.703e+04 / 60
p0 0.09398 ± 8.9e−05
0.3
0.25
0.2
0.15
0.1
0.05

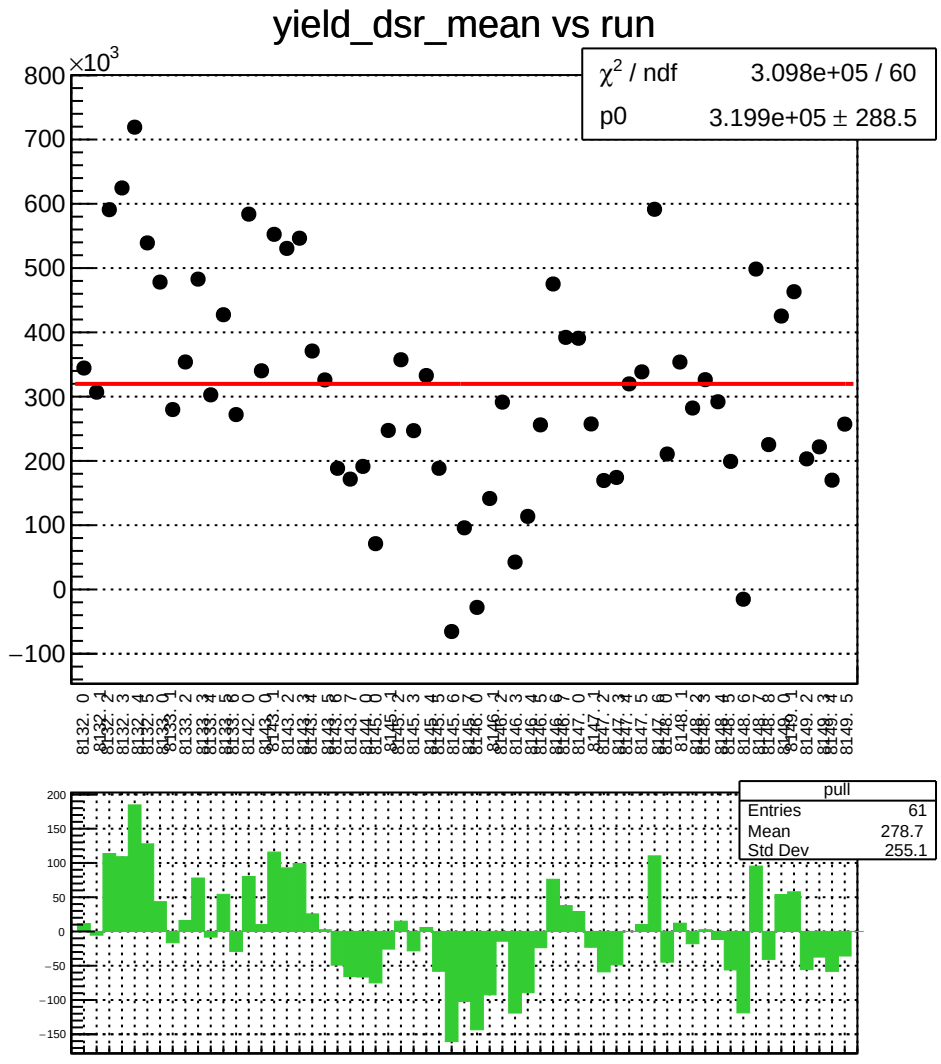

yield_usr_mean vs run
χ² / ndf 1.197e+06 / 60
p0 33.51± 0.0002494
34
33.8
33.6
33.4
33.2
33
32.8
pull
Entries 61
Mean 166.6
Std Dev 153
200
100
0
−100
−200
−300
pull1D
Entries 61
Mean −0.8218
Std Dev 3.628
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

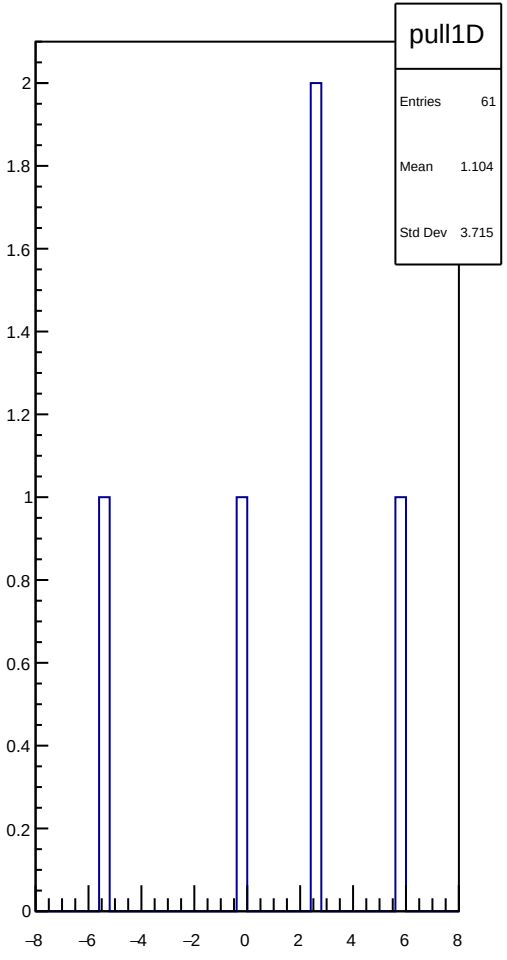

yield_usr_rms vs run
χ² / ndf 5.389e+04 / 60
p0 0.1865 ± 0.0001763
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

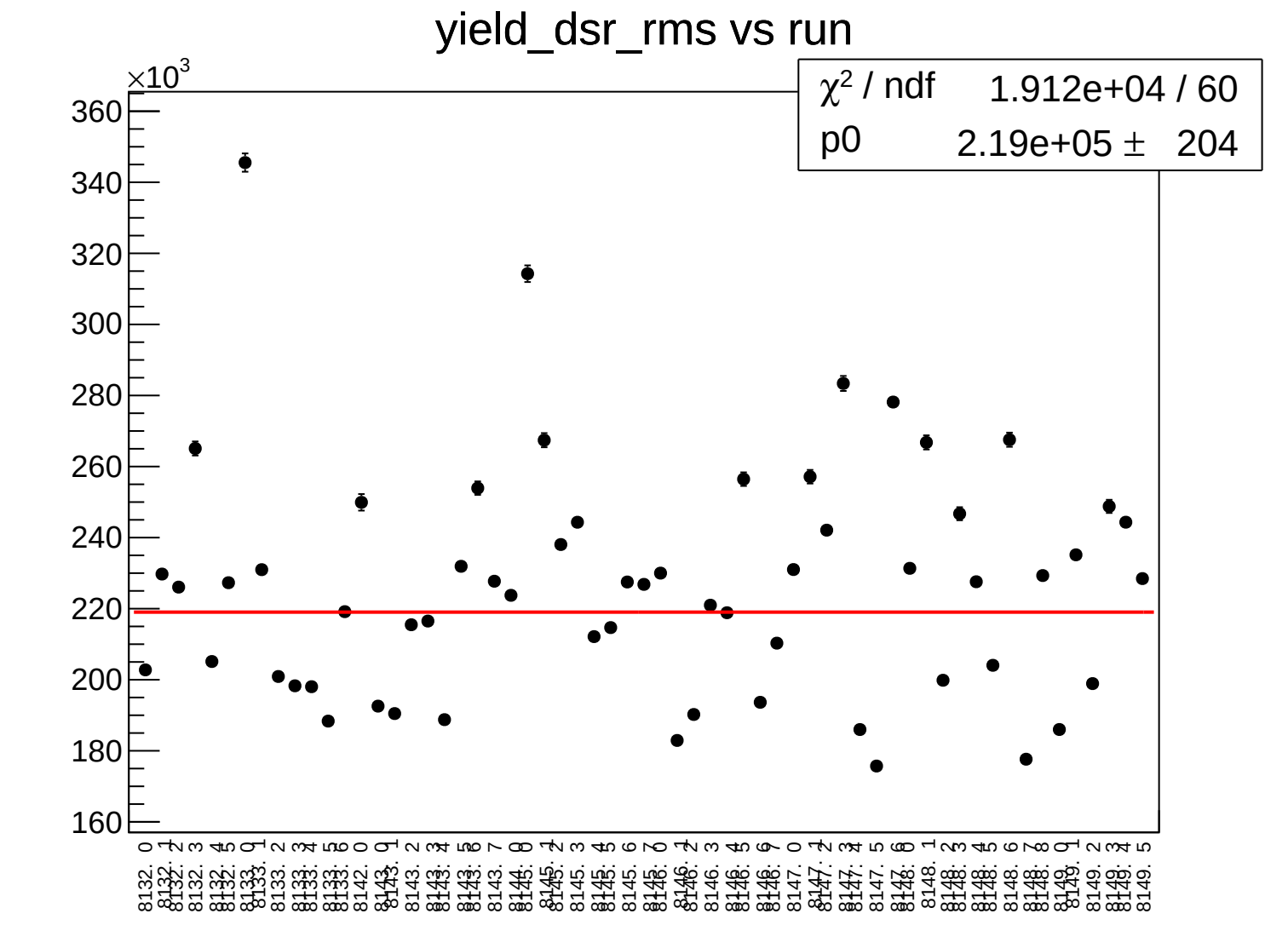

yield_dsl_mean vs run
×10^3
χ² / ndf 1.688e+06 / 45
p0 5.798e+05 ± 251.7
1000
800
600
400
200
0
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 0
8133. 1
8133. 2
8133. 3
8133. 4
8133. 5
8133. 6
8143. 1
8143. 2
8143. 3
8143. 4
8143. 6
8144. 0
8145. 1
8145. 3
8145. 6
8145. 7
8146. 0
8146. 1
8146. 4
8146. 7
8147. 1
8147. 2
8147. 4
8147. 6
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5
pull
Entries 46
Mean 243.3
Std Dev 225.7
300
200
100
0
−100
−200
−300
−400

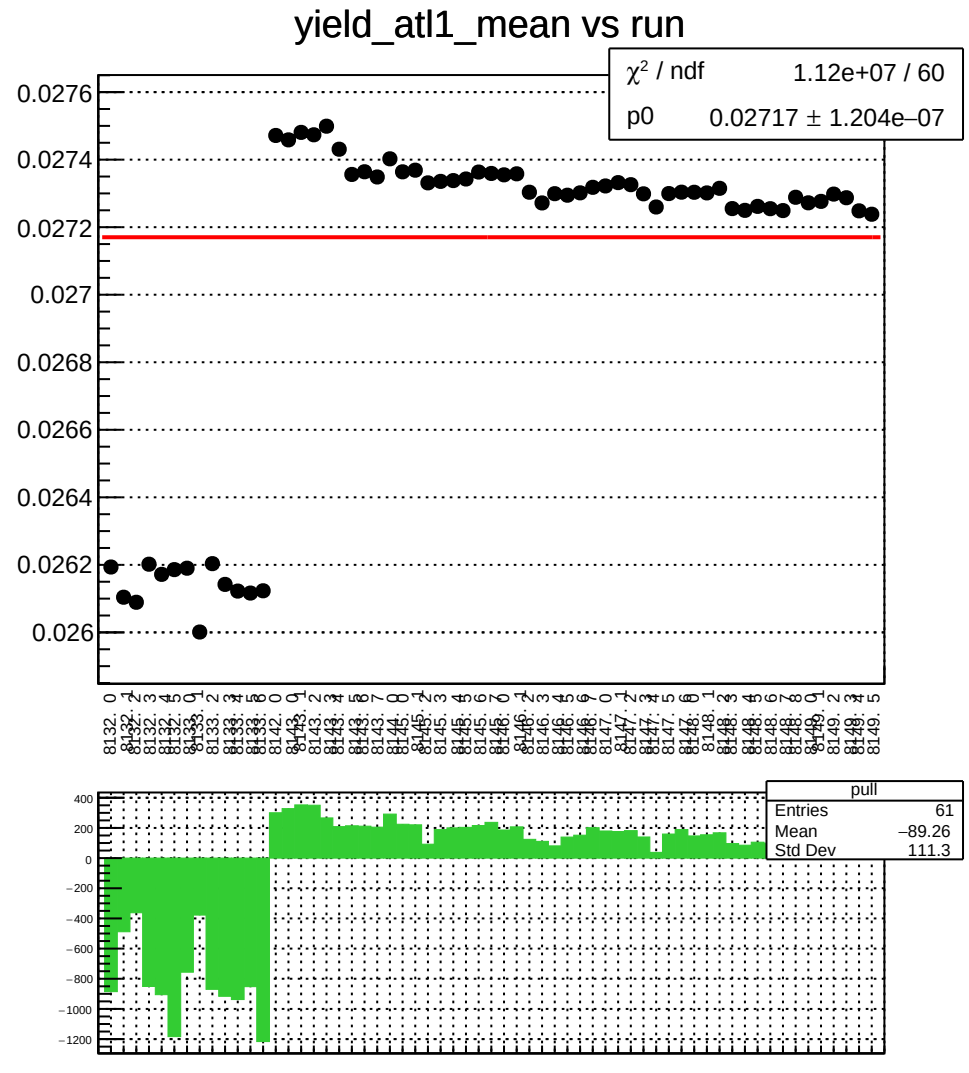

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

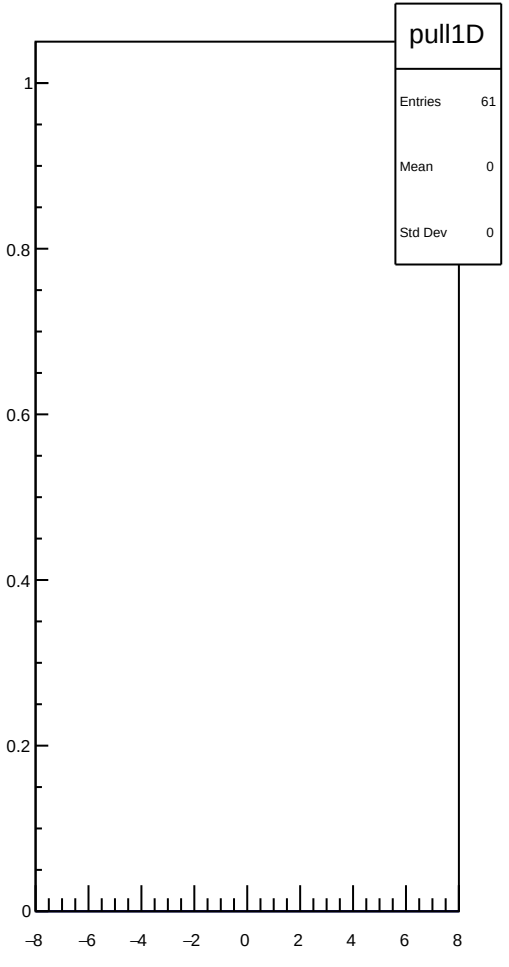

yield_dsl_rms vs run
×10^3
χ^2 / ndf 5.627e+04 / 60
p0 1.643e+05 ± 155.6
300
250
200
150
100

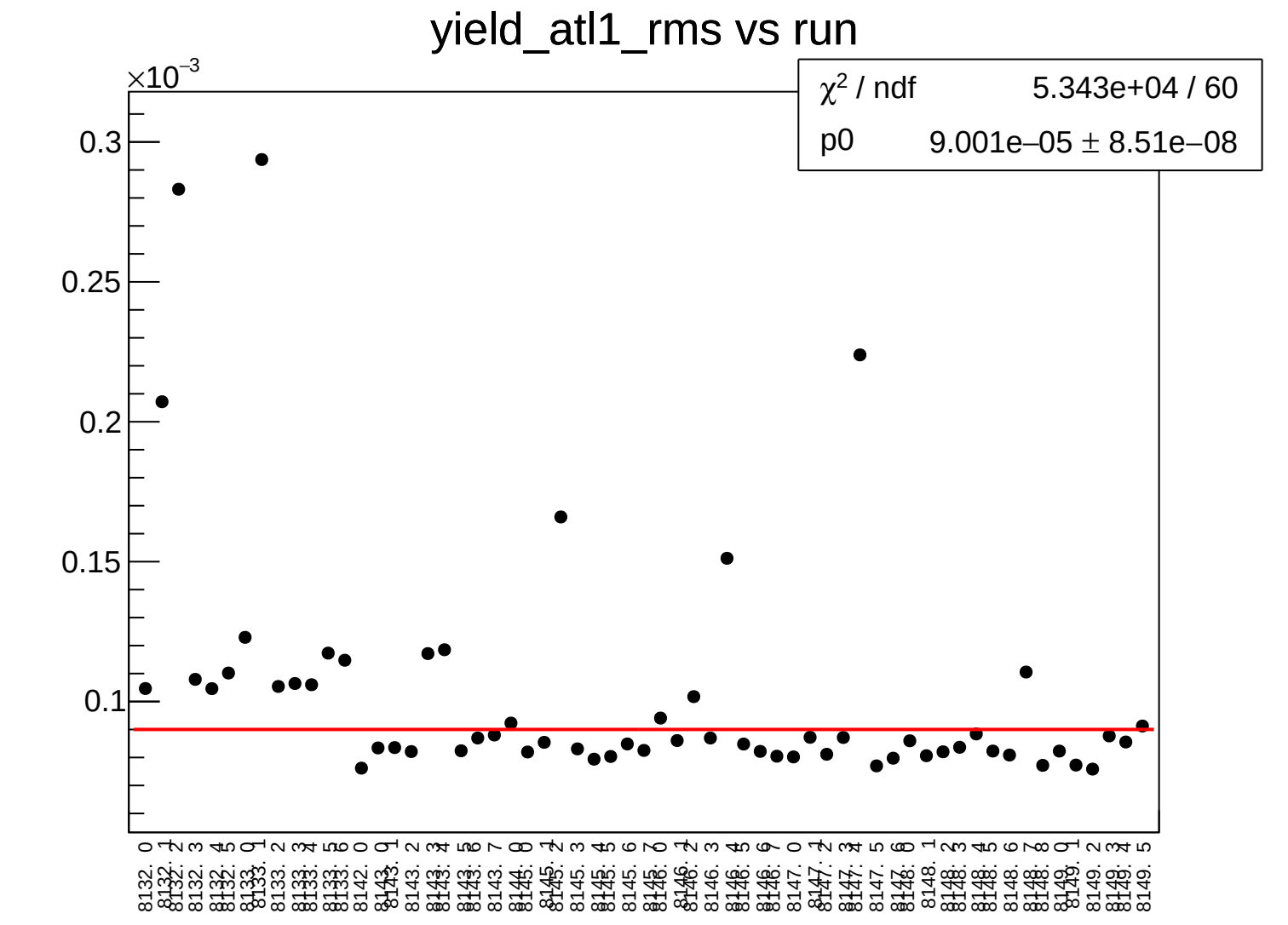

yield_dsr_mean vs run
χ² / ndf 3.098e+05 / 60
p0 3.199e+05 ± 288.5
pull
Entries 61
Mean 278.7
Std Dev 255.1

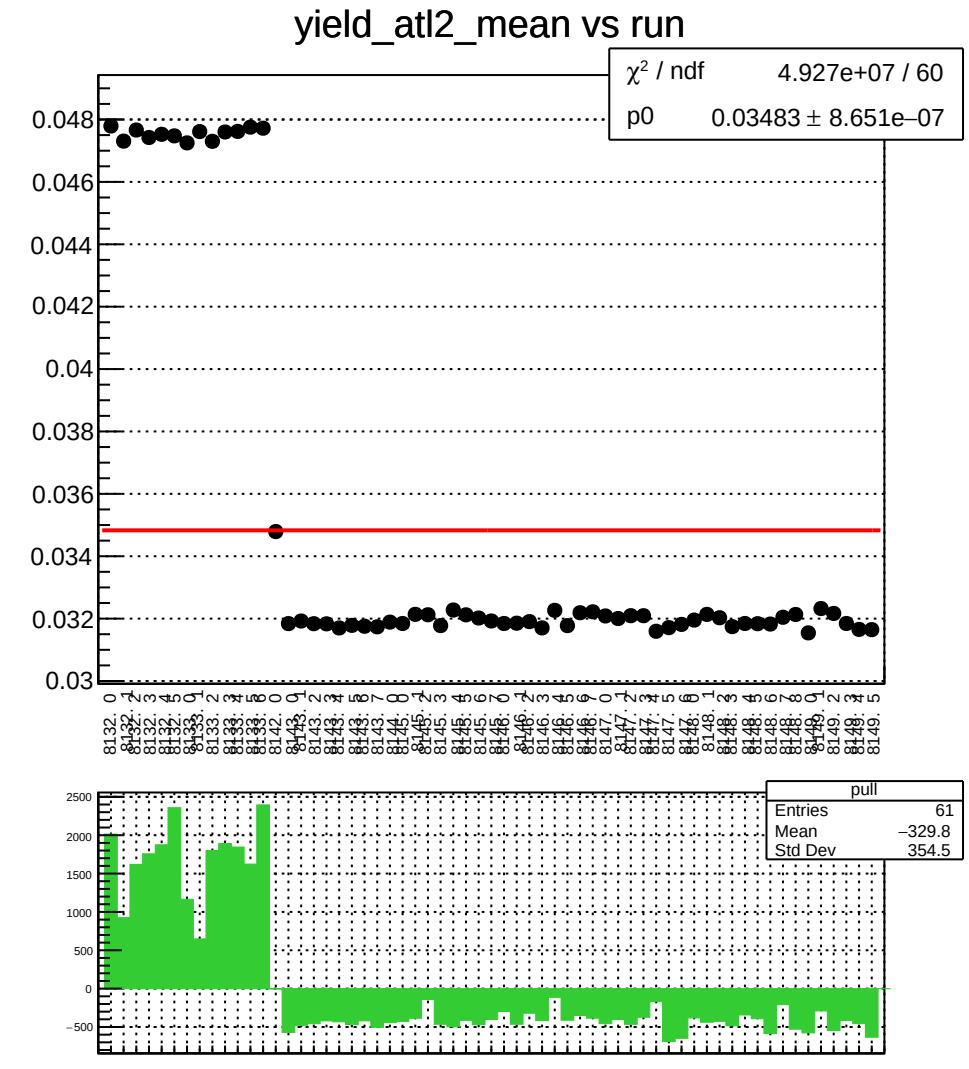

pull1D
Entries 61
Mean 1.104
Std Dev 3.715

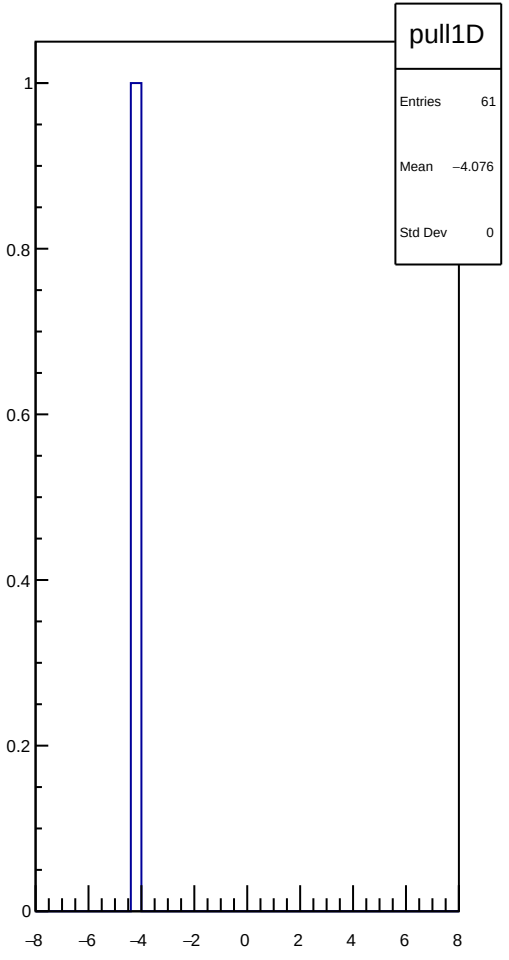

yield_dsr_rms vs run
×10^3
χ² / ndf 1.912e+04 / 60
p0 2.19e+05 ± 204
360
340
320
300
280
260
240
220
200
180
160

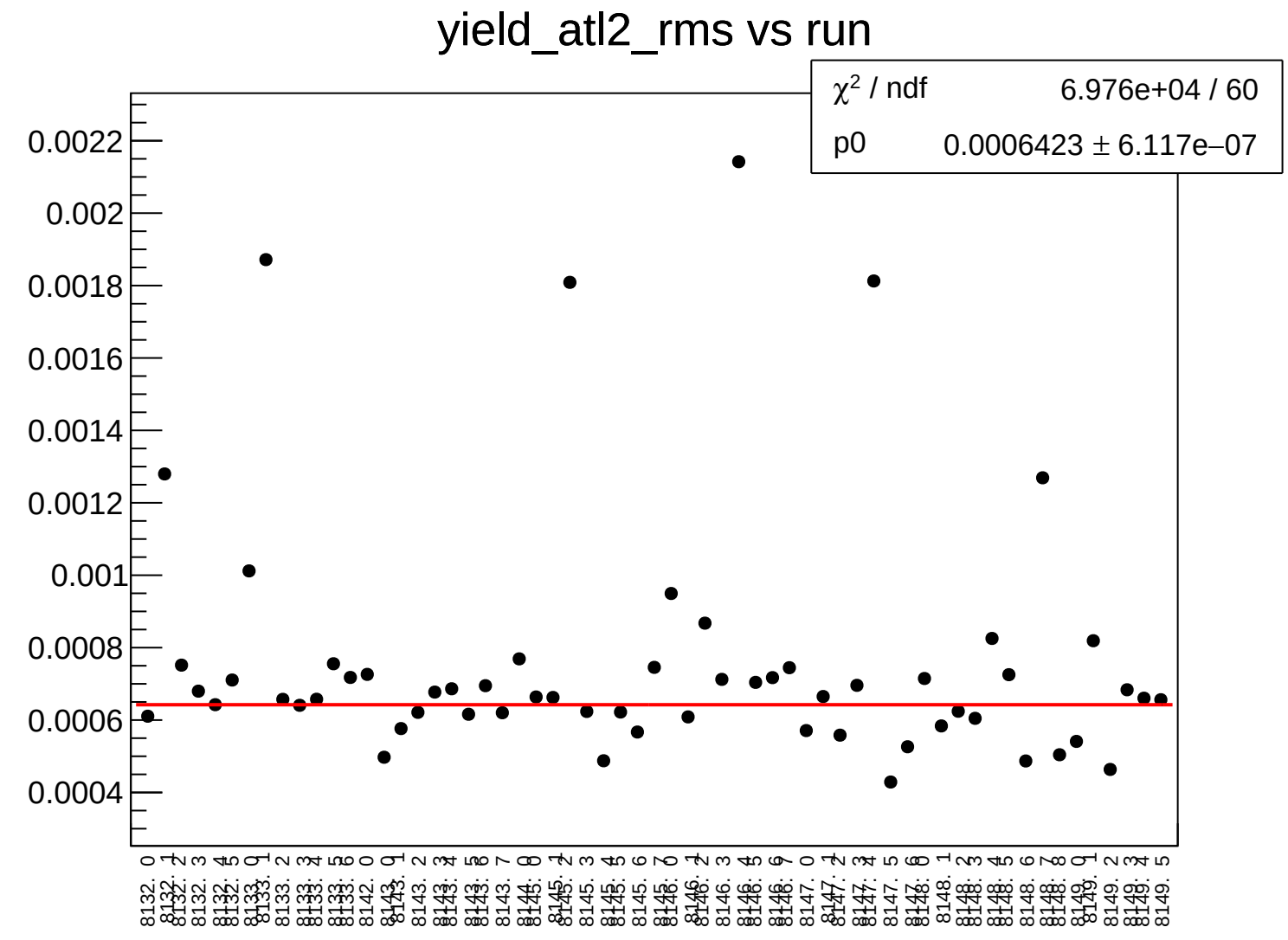

yield_atl1_mean vs run
χ² / ndf 1.12e+07 / 60
p0 0.02717 ± 1.204e−07
0.0276
0.0274
0.0272
0.027
0.0268
0.0266
0.0264
0.0262
0.026
pull
Entries 61
Mean −89.26
Std Dev 111.3
400
200
0
−200
−400
−600
−800
−1000
−1200

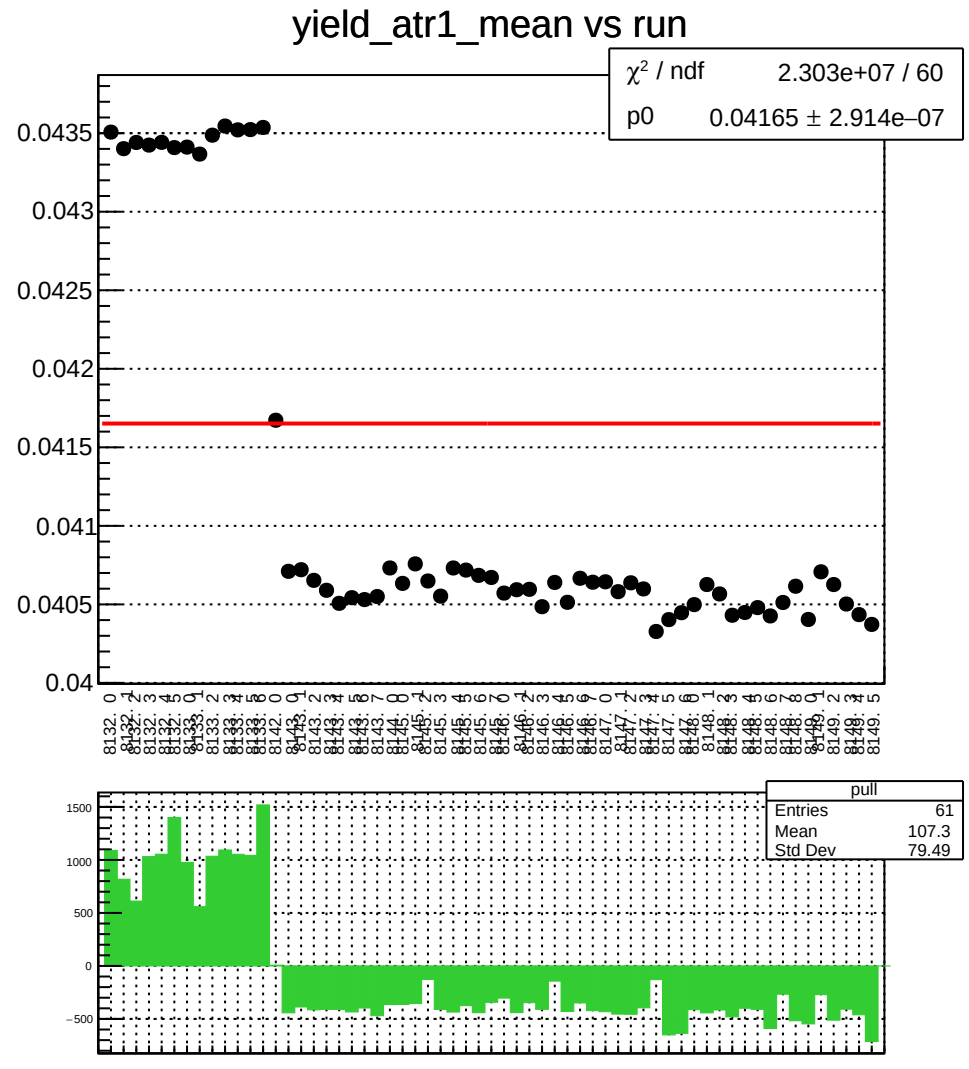

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

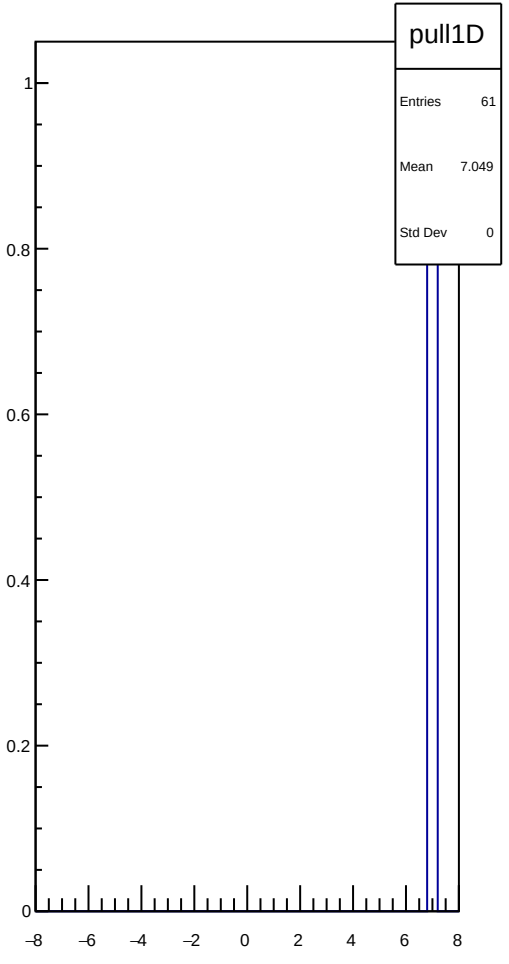

yield_atl1_rms vs run
×10⁻³
χ² / ndf 5.343e+04 / 60
p0 9.001e−05 ± 8.51e−08
0.3
0.25
0.2
0.15
0.1

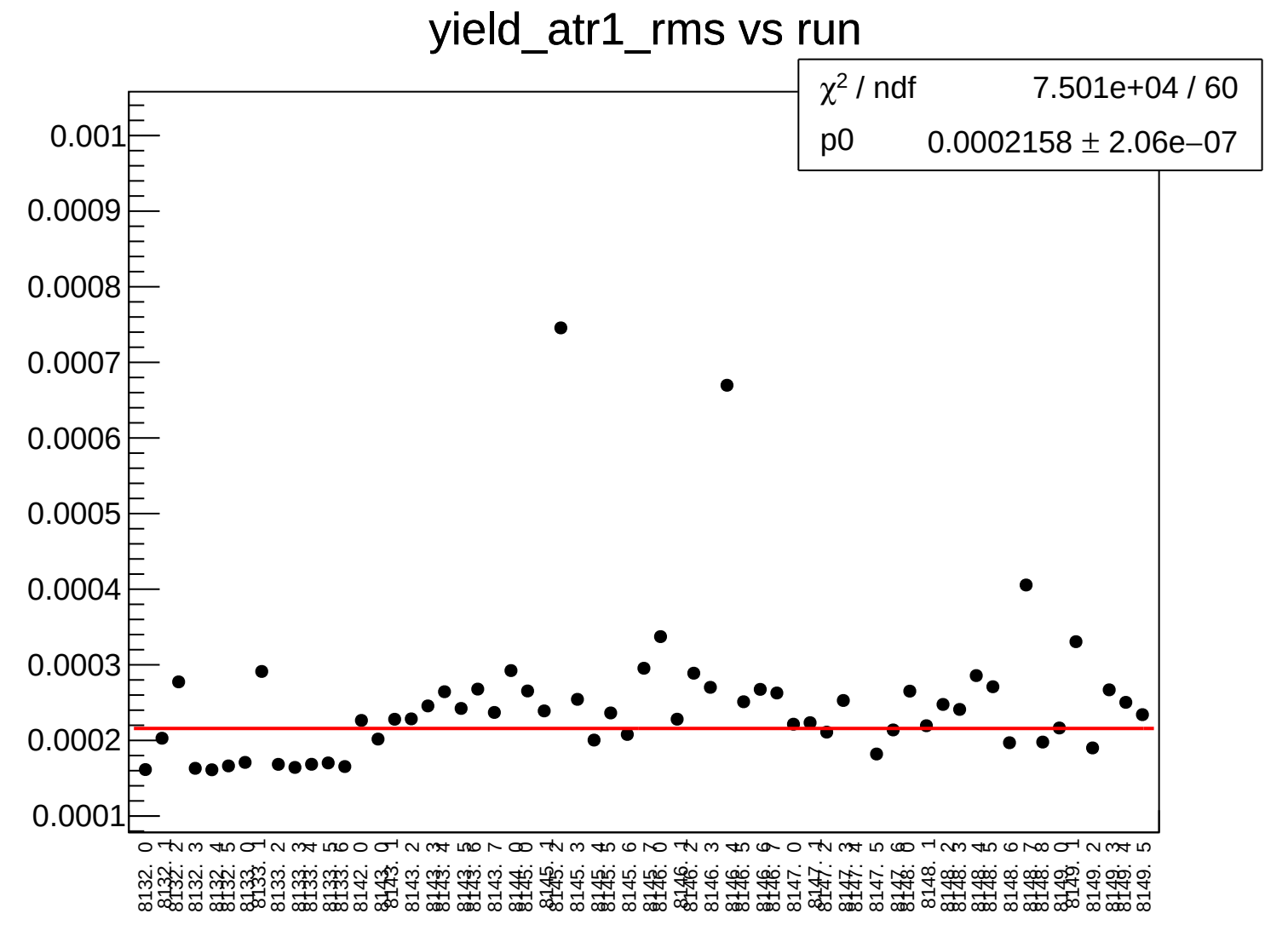

yield_atl2_mean vs run
χ² / ndf 4.927e+07 / 60
p0 0.03483 ± 8.651e−07
0.048
0.046
0.044
0.042
0.04
0.038
0.036
0.034
0.032
0.03
pull
Entries 61
Mean −329.8
Std Dev 354.5
2500
2000
1500
1000
500
0
−500

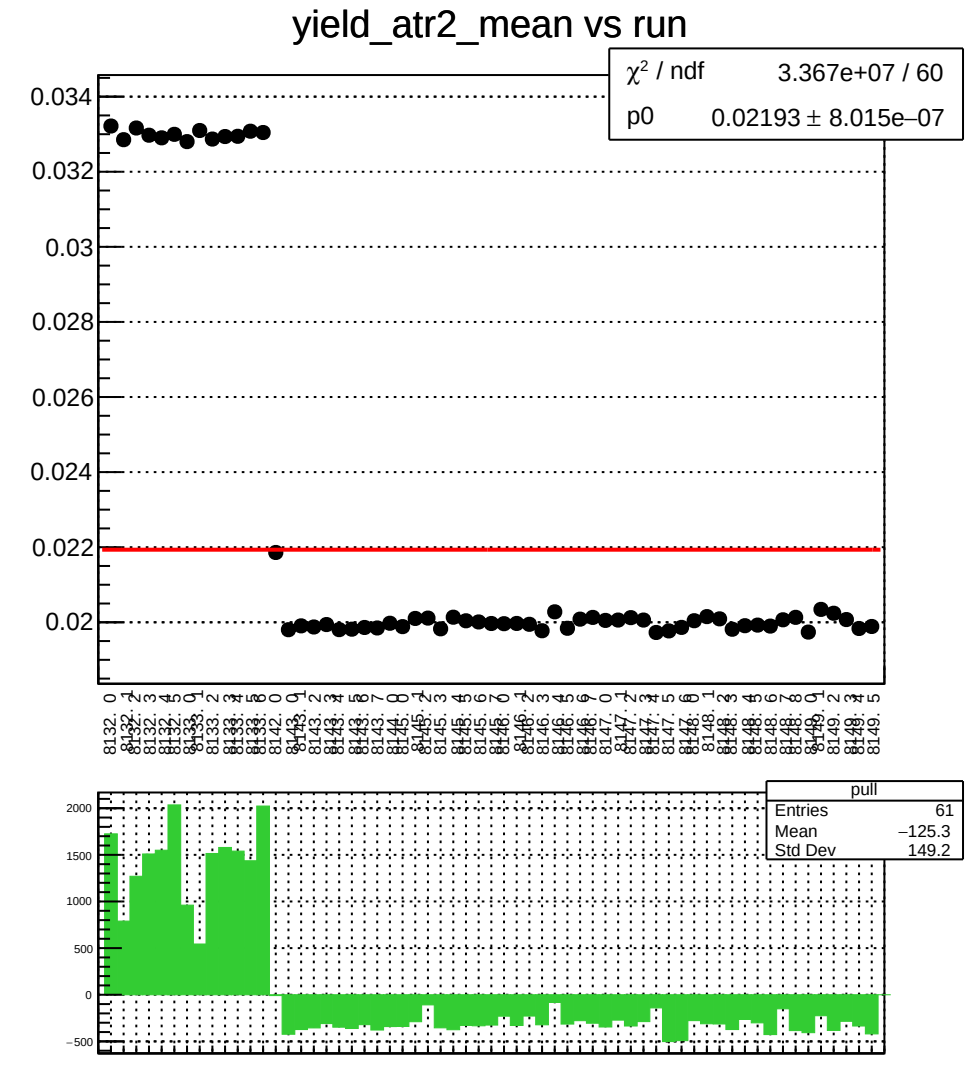

pull1D
Entries 61
Mean −4.076
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

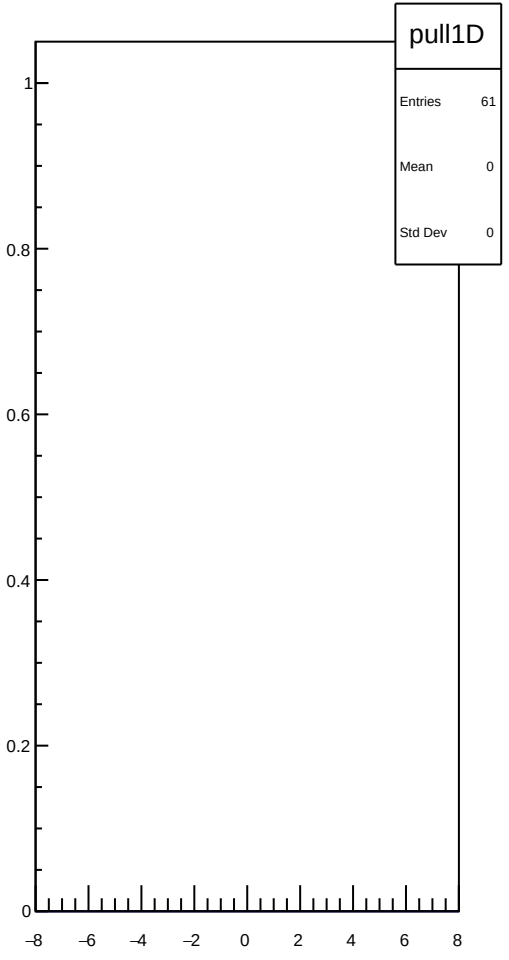

yield_atl2_rms vs run
χ² / ndf 6.976e+04 / 60
p0 0.0006423 ± 6.117e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

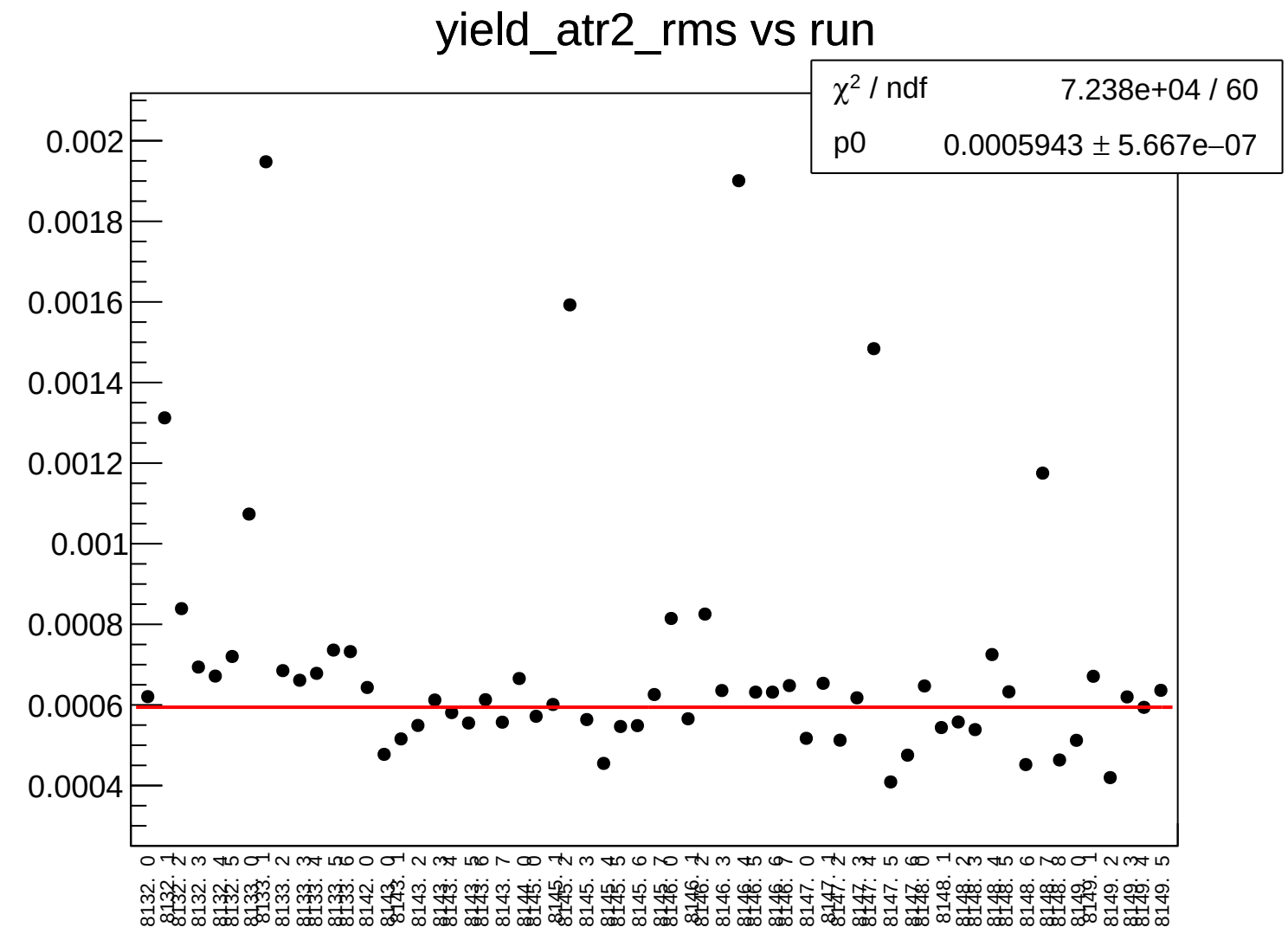

yield_atr1_mean vs run
χ² / ndf 2.303e+07 / 60
p0 0.04165 ± 2.914e−07
0.0435
0.043
0.0425
0.042
0.0415
0.041
0.0405
0.04
pull
Entries 61
Mean 107.3
Std Dev 79.49
1500
1000
500
0
−500

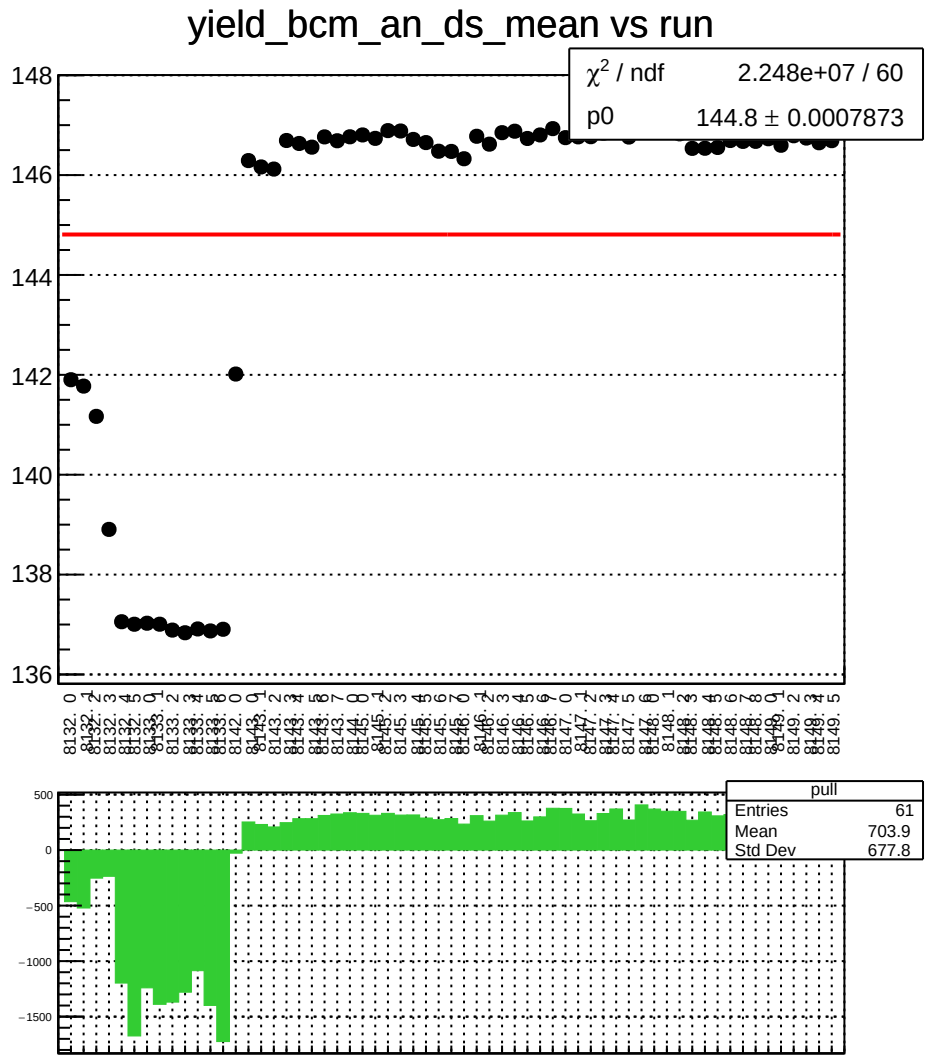

pull1D
Entries 61
Mean 7.049
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

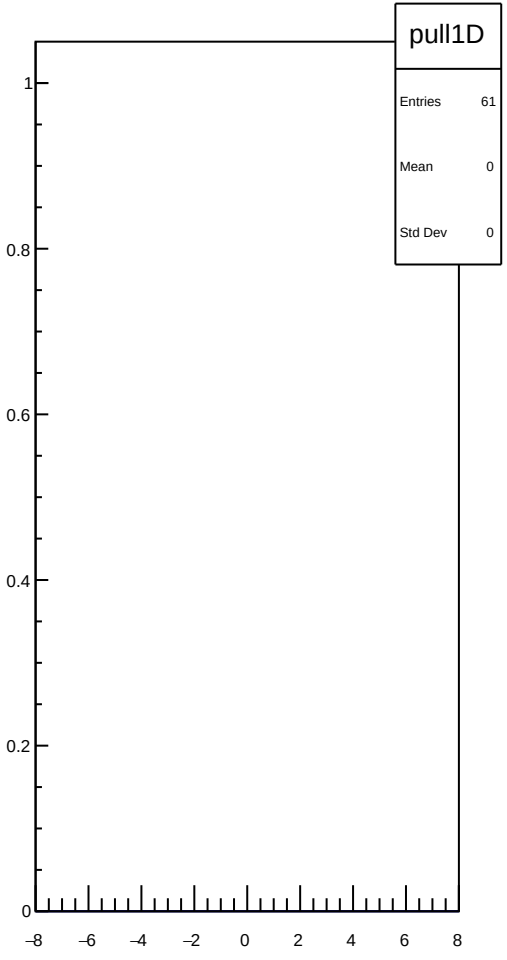

yield_atr1_rms vs run
χ² / ndf 7.501e+04 / 60
p0 0.0002158 ± 2.06e−07
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001

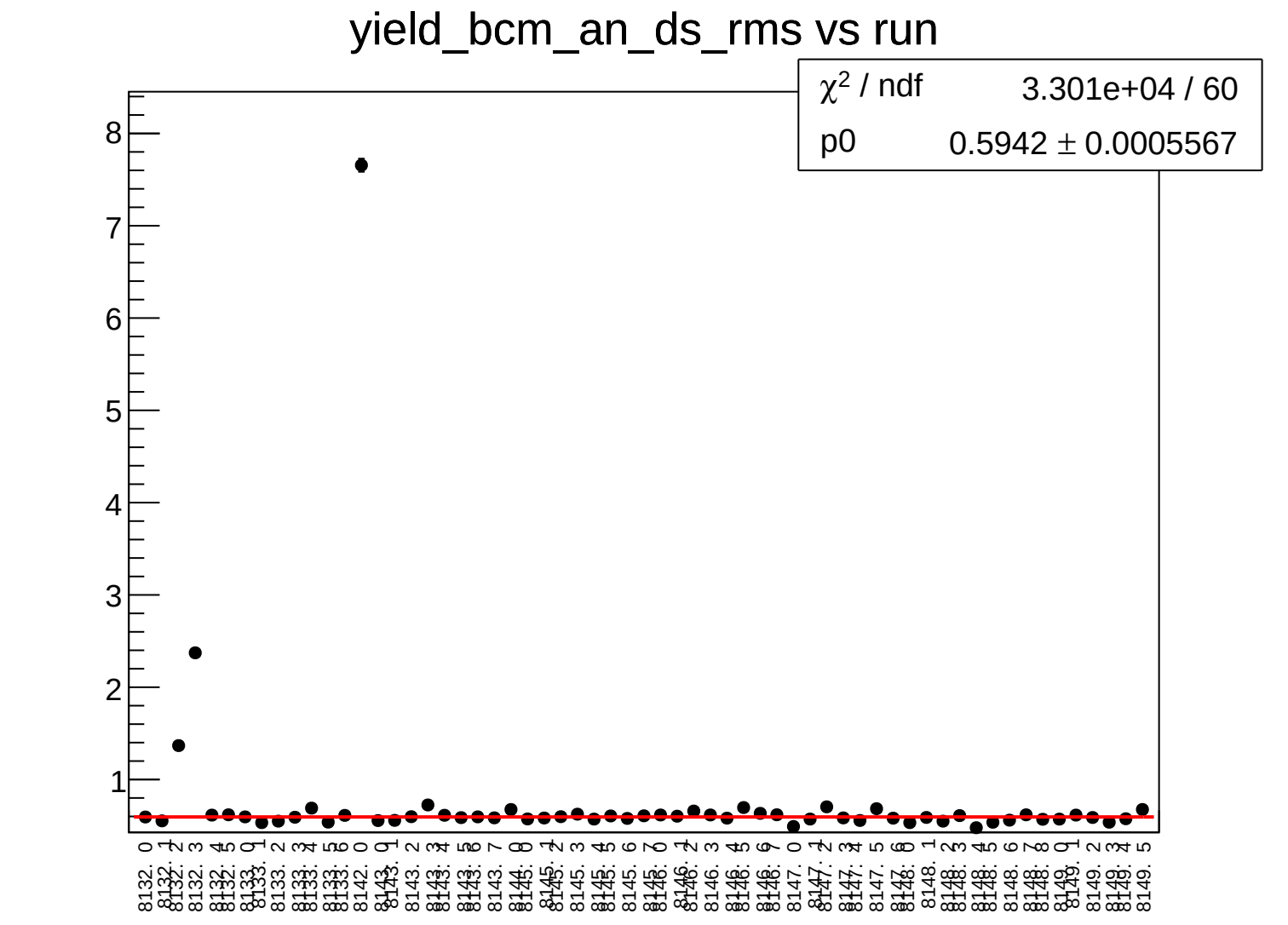

yield_atr2_mean vs run
χ² / ndf 3.367e+07 / 60
p0 0.02193 ± 8.015e−07
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
pull
Entries 61
Mean −125.3
Std Dev 149.2
2000
1500
1000
500
0
−500

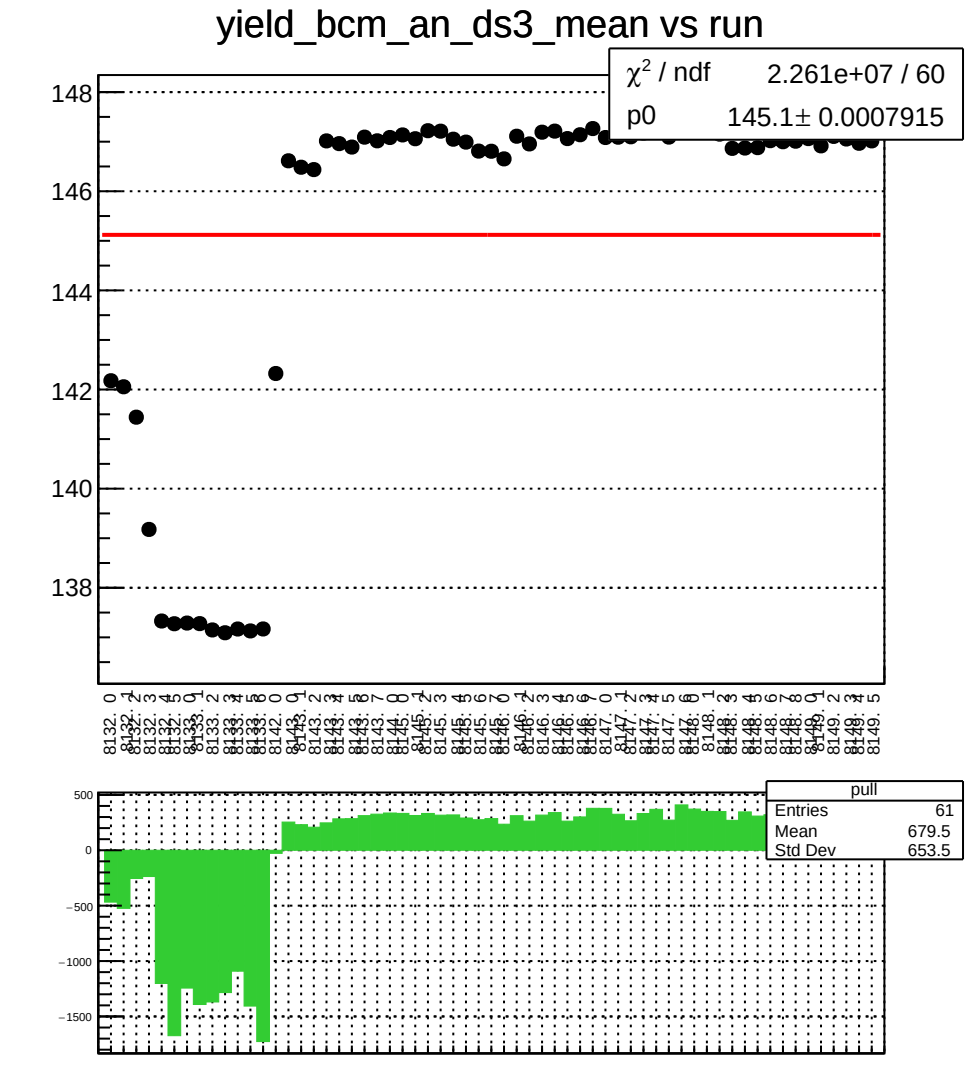

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

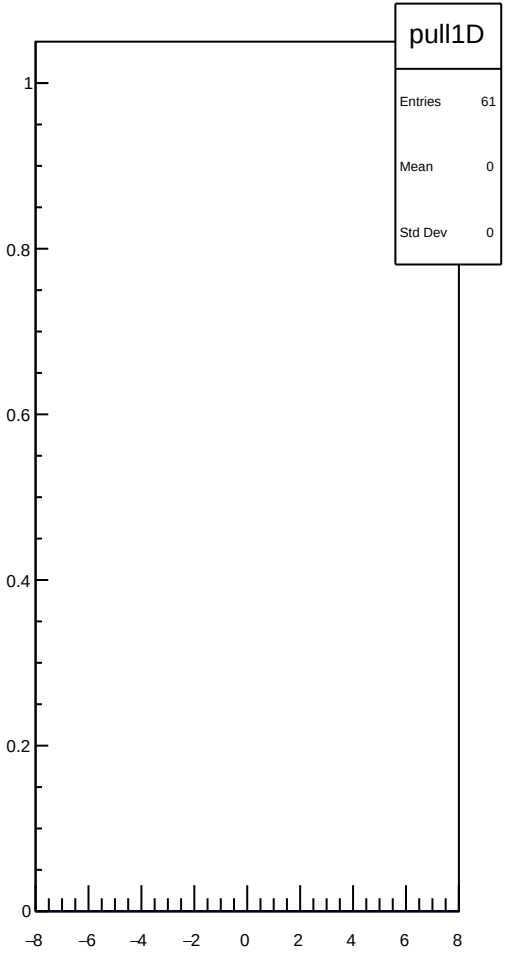

yield_atr2_rms vs run
χ² / ndf 7.238e+04 / 60
p0 0.0005943 ± 5.667e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

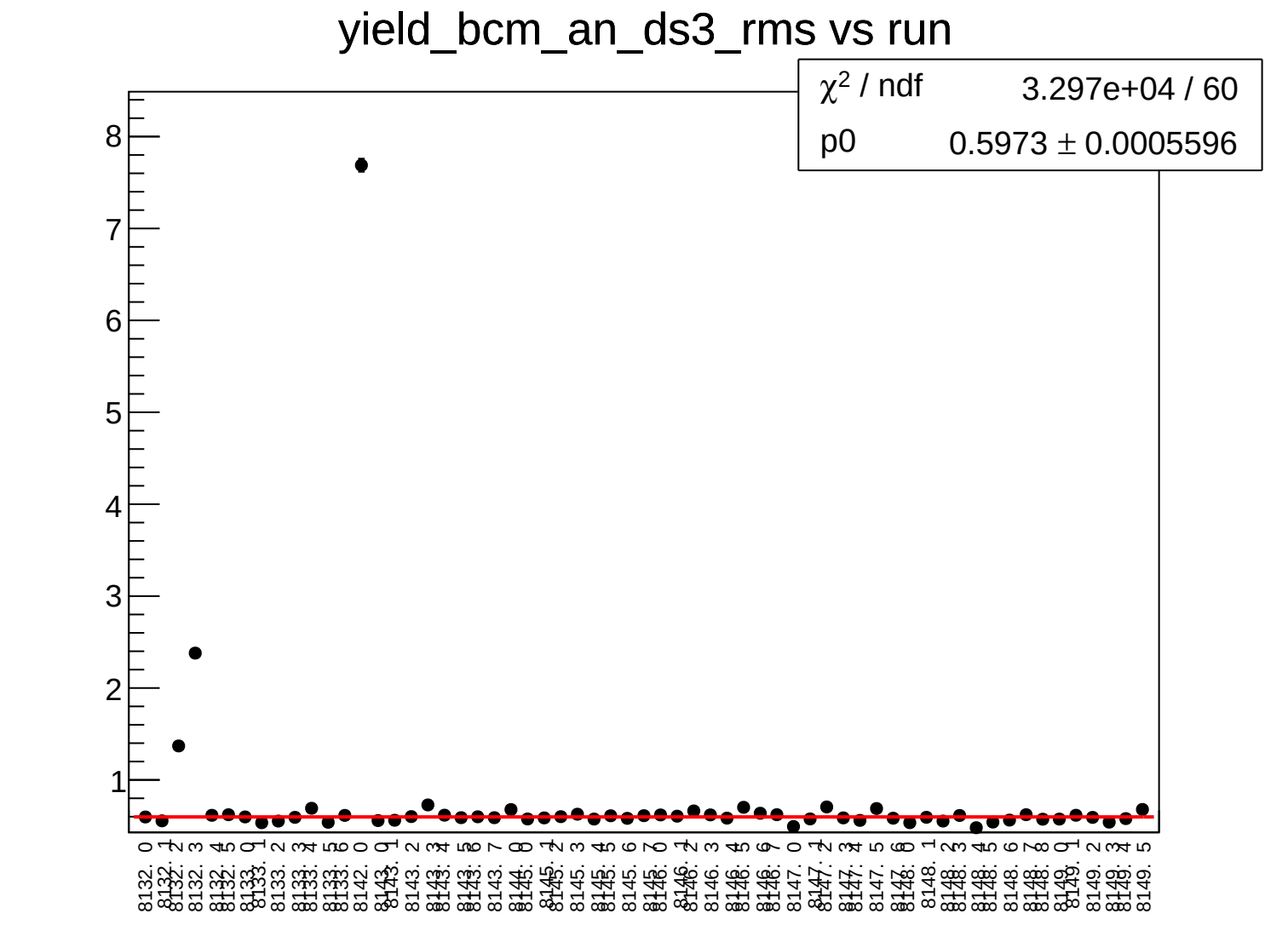

yield_bcm_an_ds_mean vs run
χ² / ndf 2.248e+07 / 60
p0 144.8 ± 0.0007873
148
146
144
142
140
138
136
pull
Entries 61
Mean 703.9
Std Dev 677.8
500
0
−500
−1000
−1500

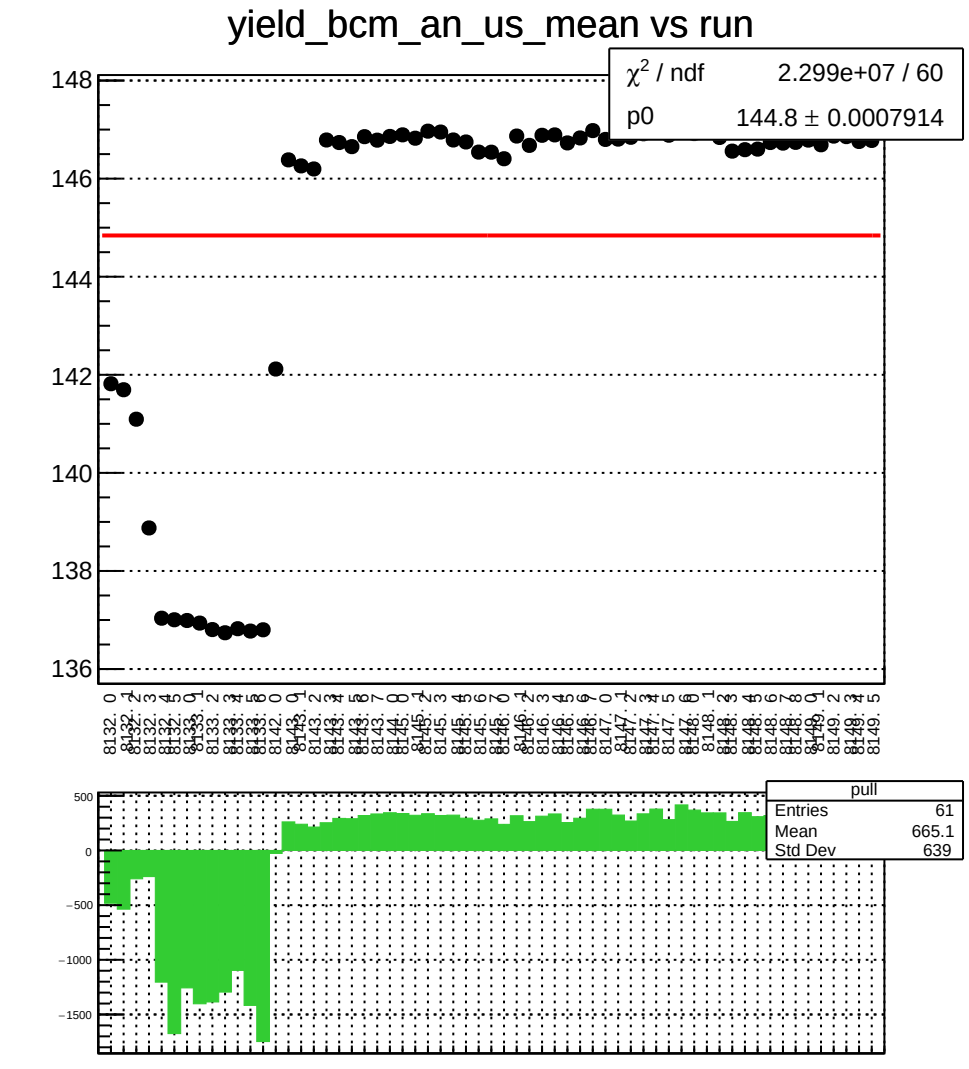

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

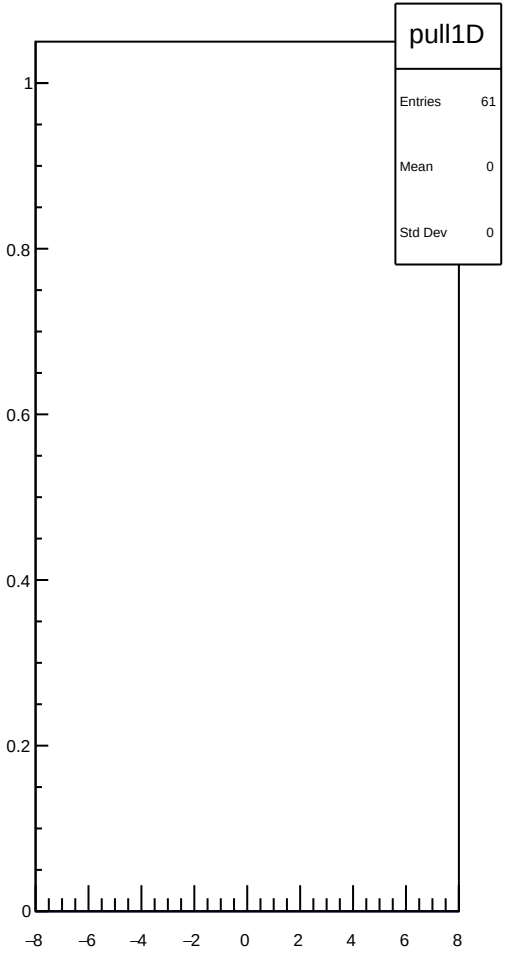

yield_bcm_an_ds_rms vs run
χ² / ndf 3.301e+04 / 60
p0 0.5942 ± 0.0005567
8
7
6
5
4
3
2
1

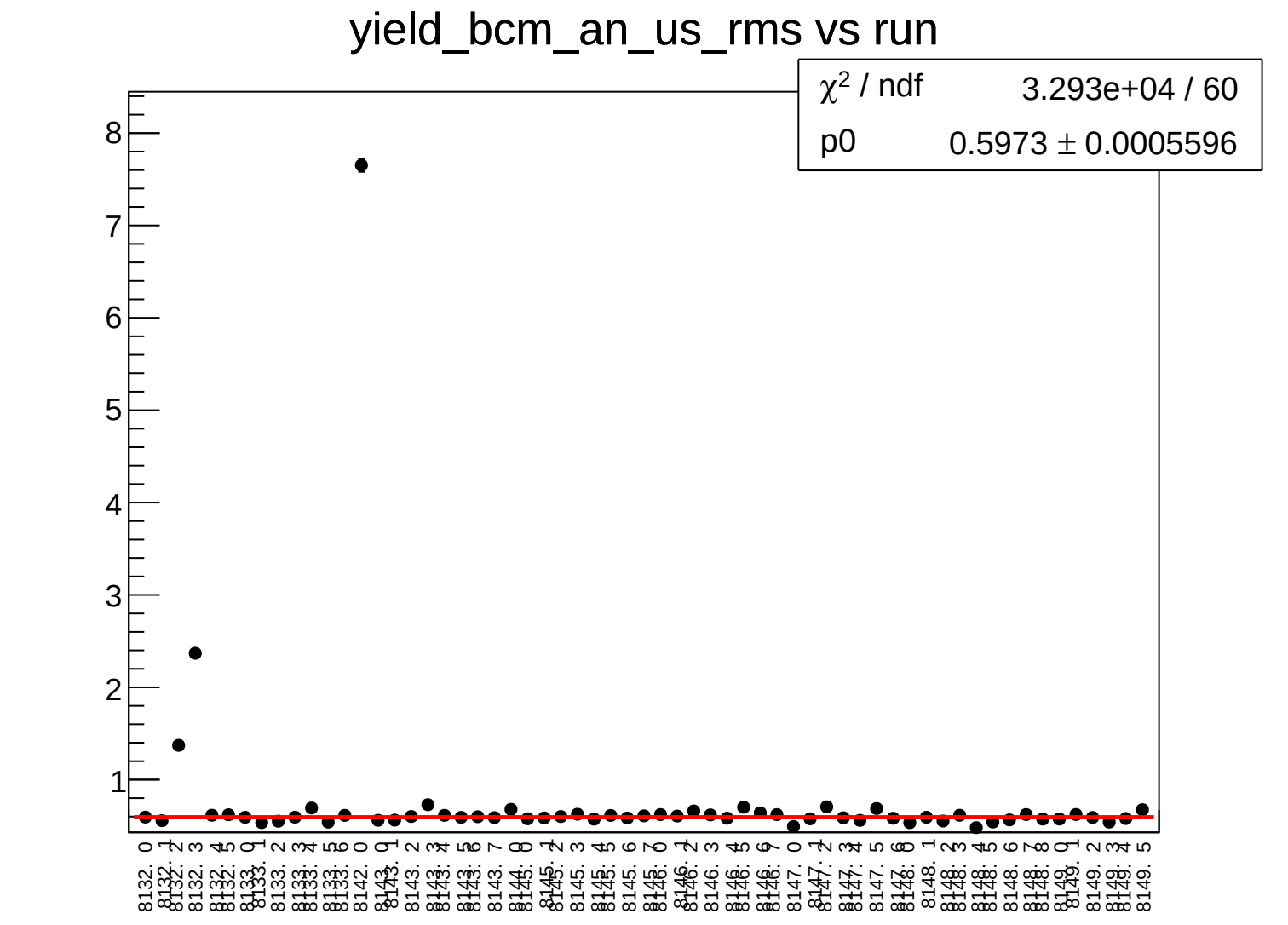

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.261e+07 / 60
p0 145.1± 0.0007915
148
146
144
142
140
138
pull
Entries 61
Mean 679.5
Std Dev 653.5
500
0
−500
−1000
−1500

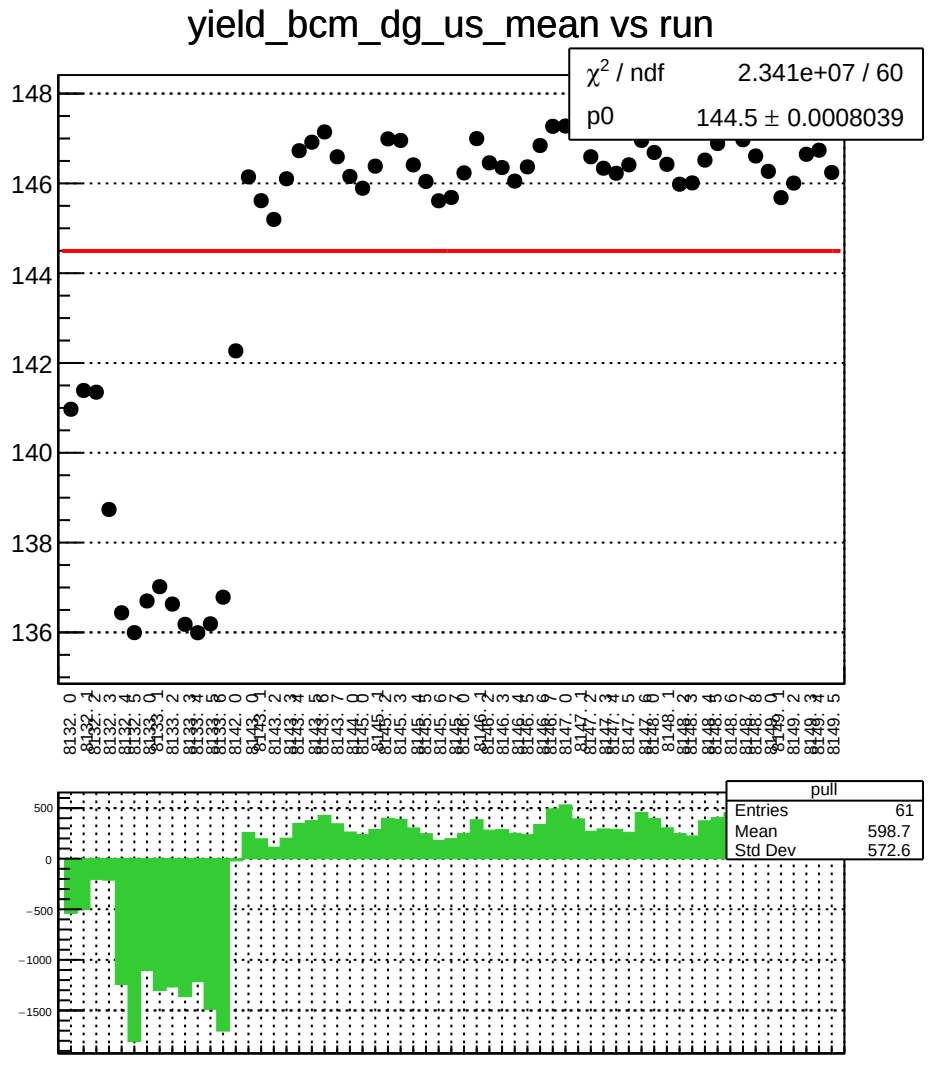

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

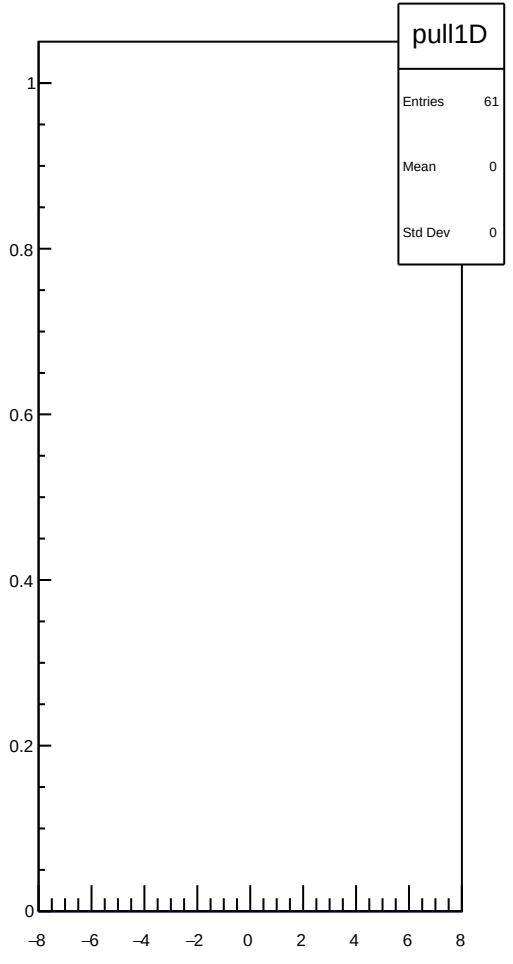

yield_bcm_an_ds3_rms vs run
χ² / ndf 3.297e+04 / 60
p0 0.5973 ± 0.0005596
8
7
6
5
4
3
2
1

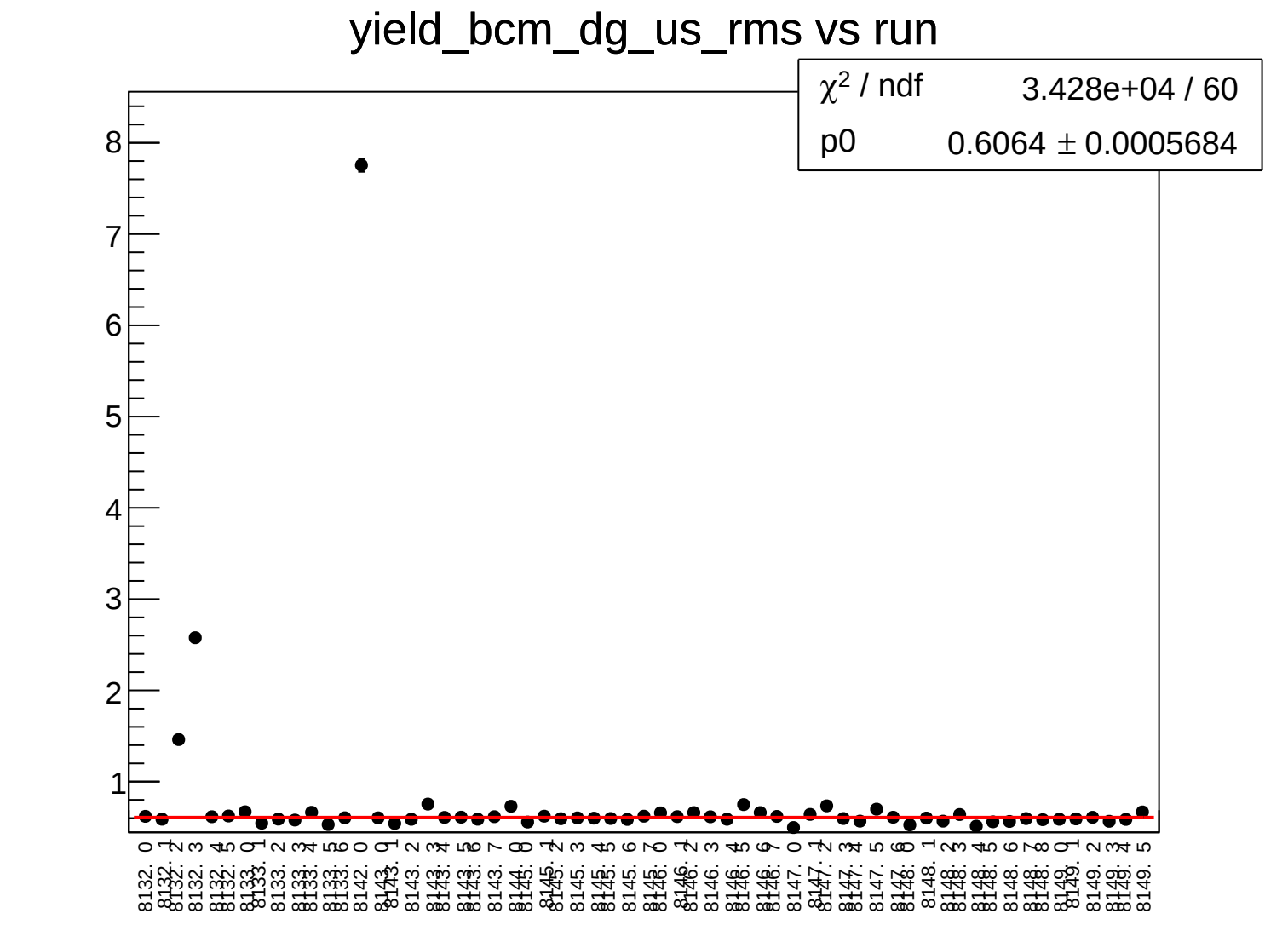

yield_bcm_an_us_mean vs run
χ² / ndf 2.299e+07 / 60
p0 144.8 ± 0.0007914
148
146
144
142
140
138
136
pull
Entries 61
Mean 665.1
Std Dev 639
500
0
−500
−1000
−1500

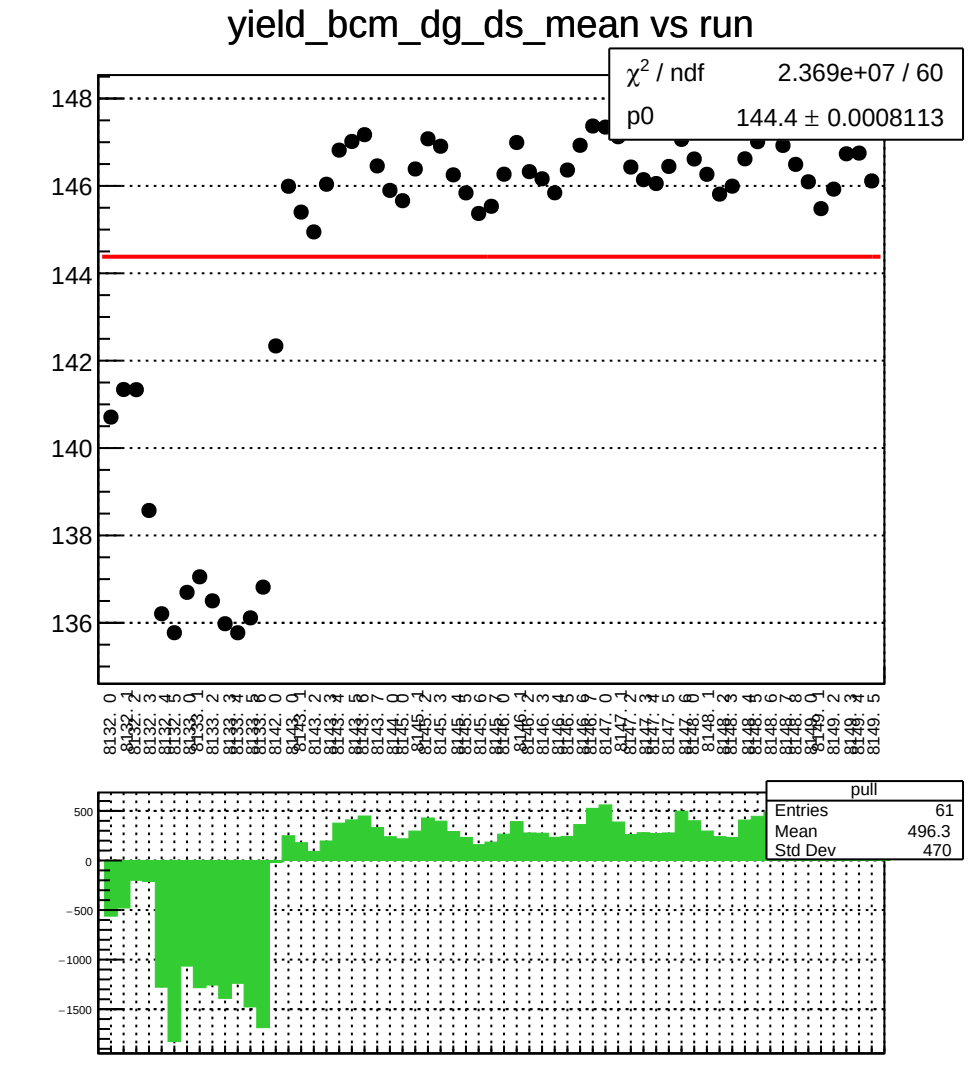

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

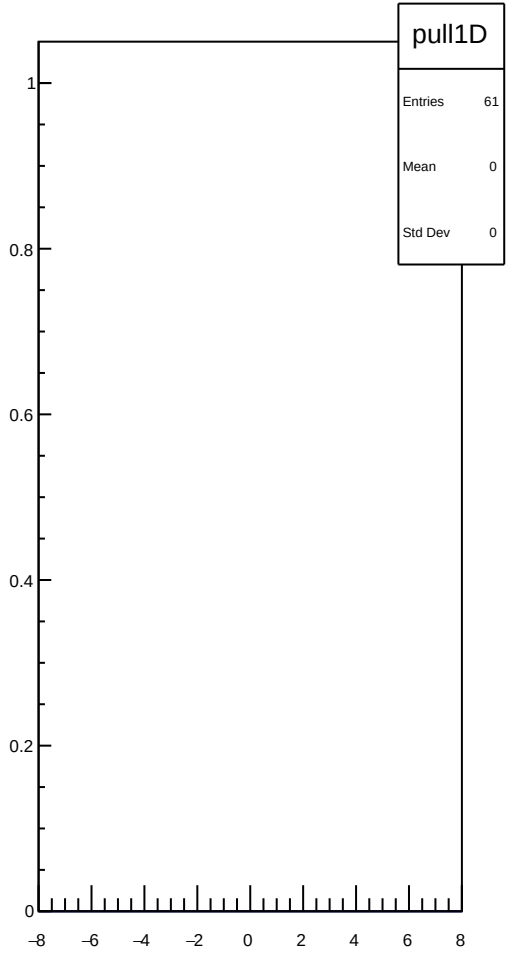

yield_bcm_an_us_rms vs run
χ² / ndf 3.293e+04 / 60
p0 0.5973 ± 0.0005596
8
7
6
5
4
3
2
1

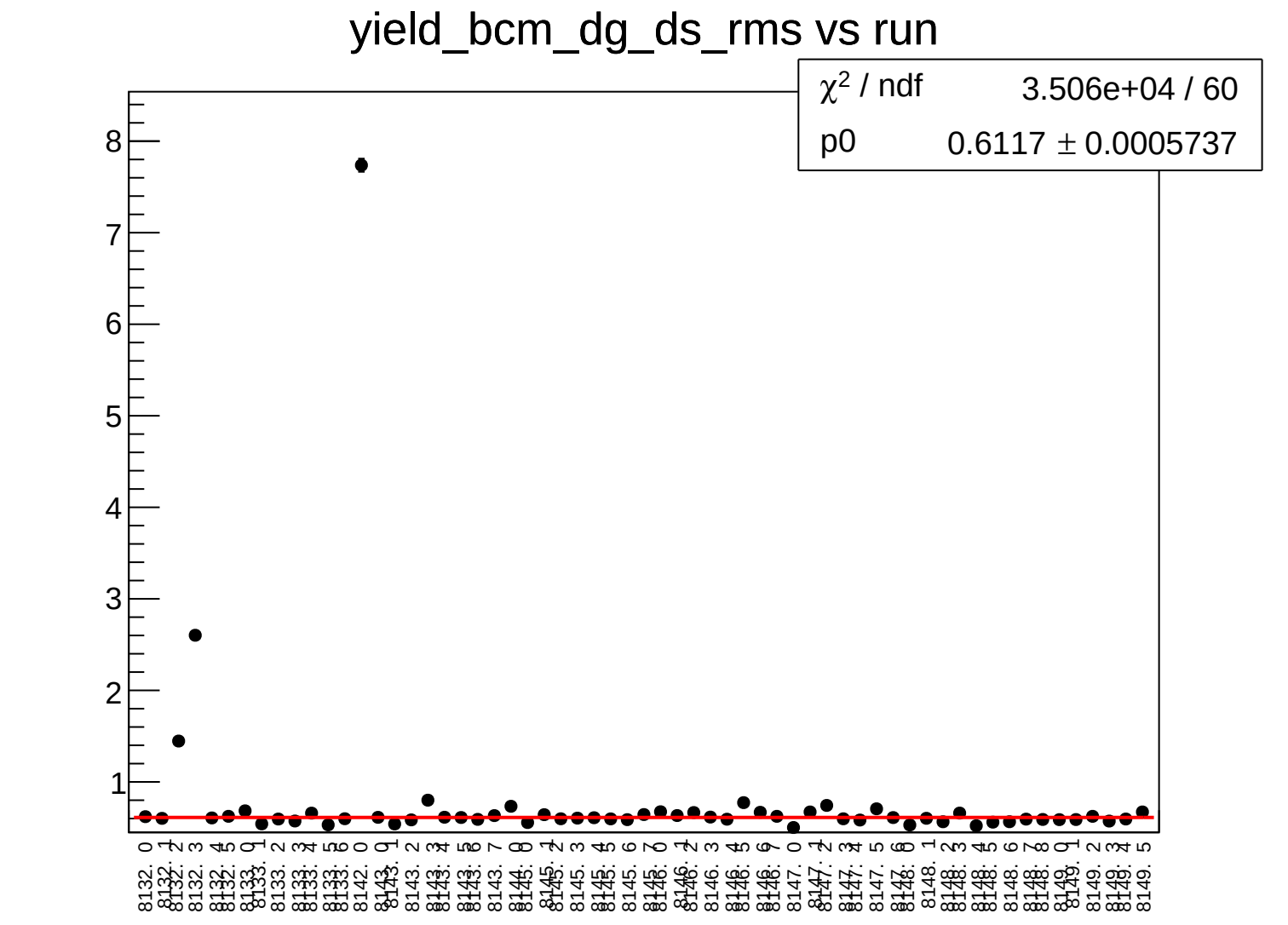

yield_bcm_dg_us_mean vs run
χ² / ndf 2.341e+07 / 60
p0 144.5 ± 0.0008039
148
146
144
142
140
138
136
pull
Entries 61
Mean 598.7
Std Dev 572.6
500
0
−500
−1000
−1500

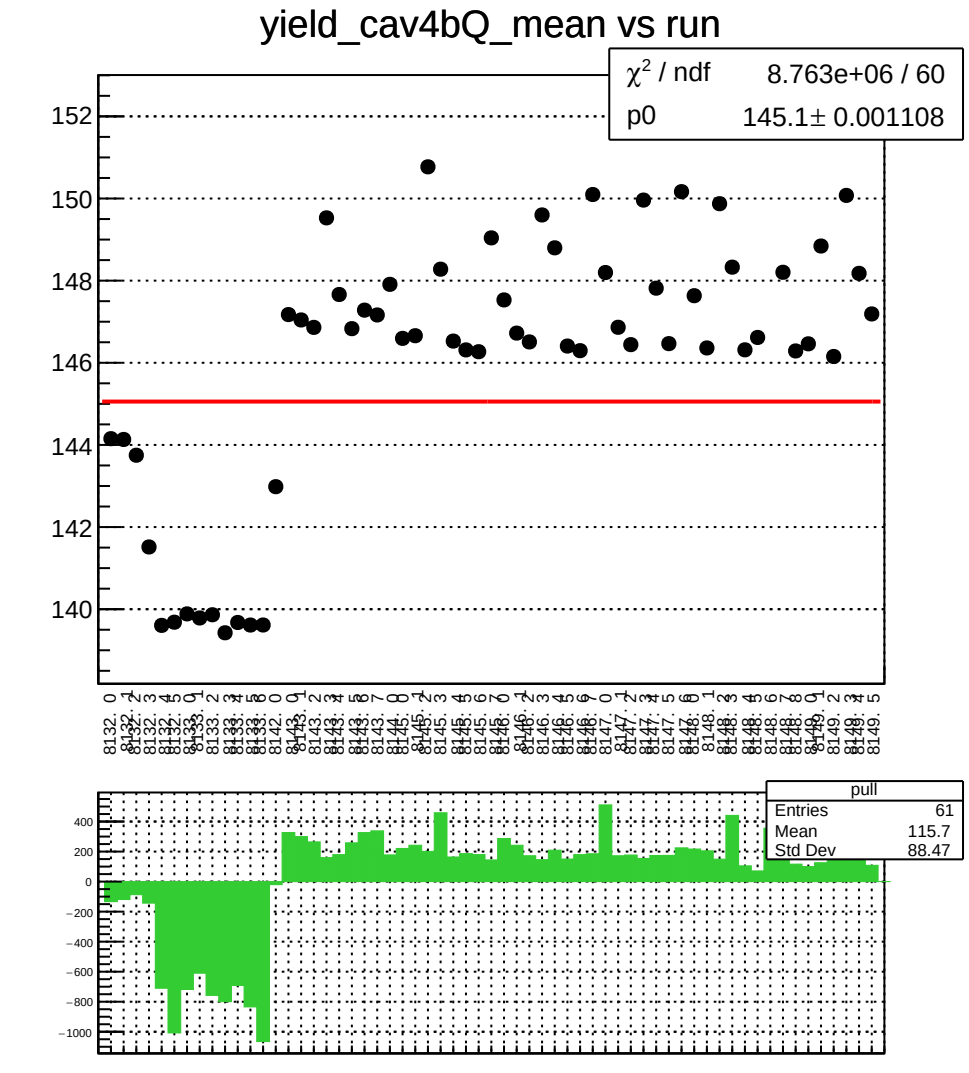

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

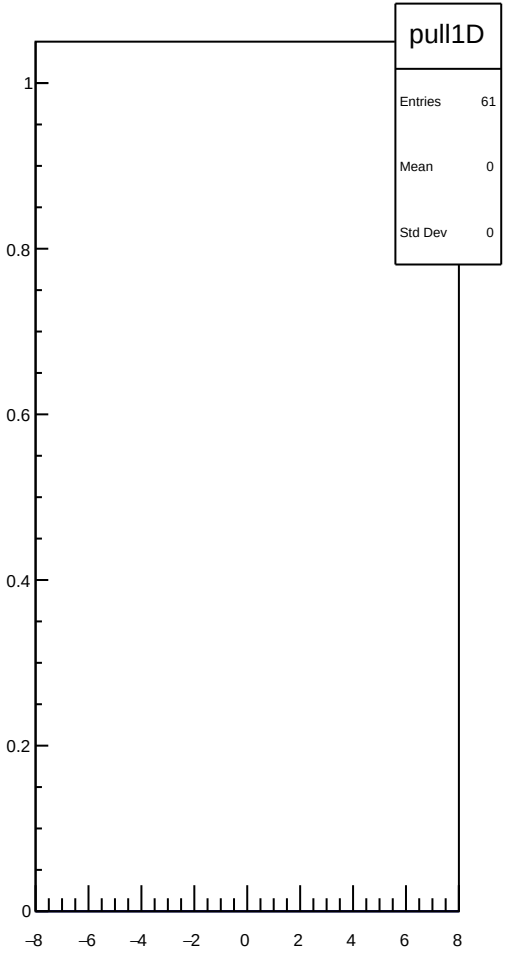

yield_bcm_dg_us_rms vs run
χ² / ndf 3.428e+04 / 60
p0 0.6064 ± 0.0005684
8
7
6
5
4
3
2
1
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 0
8133. 1
8133. 2
8133. 3
8133. 4
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

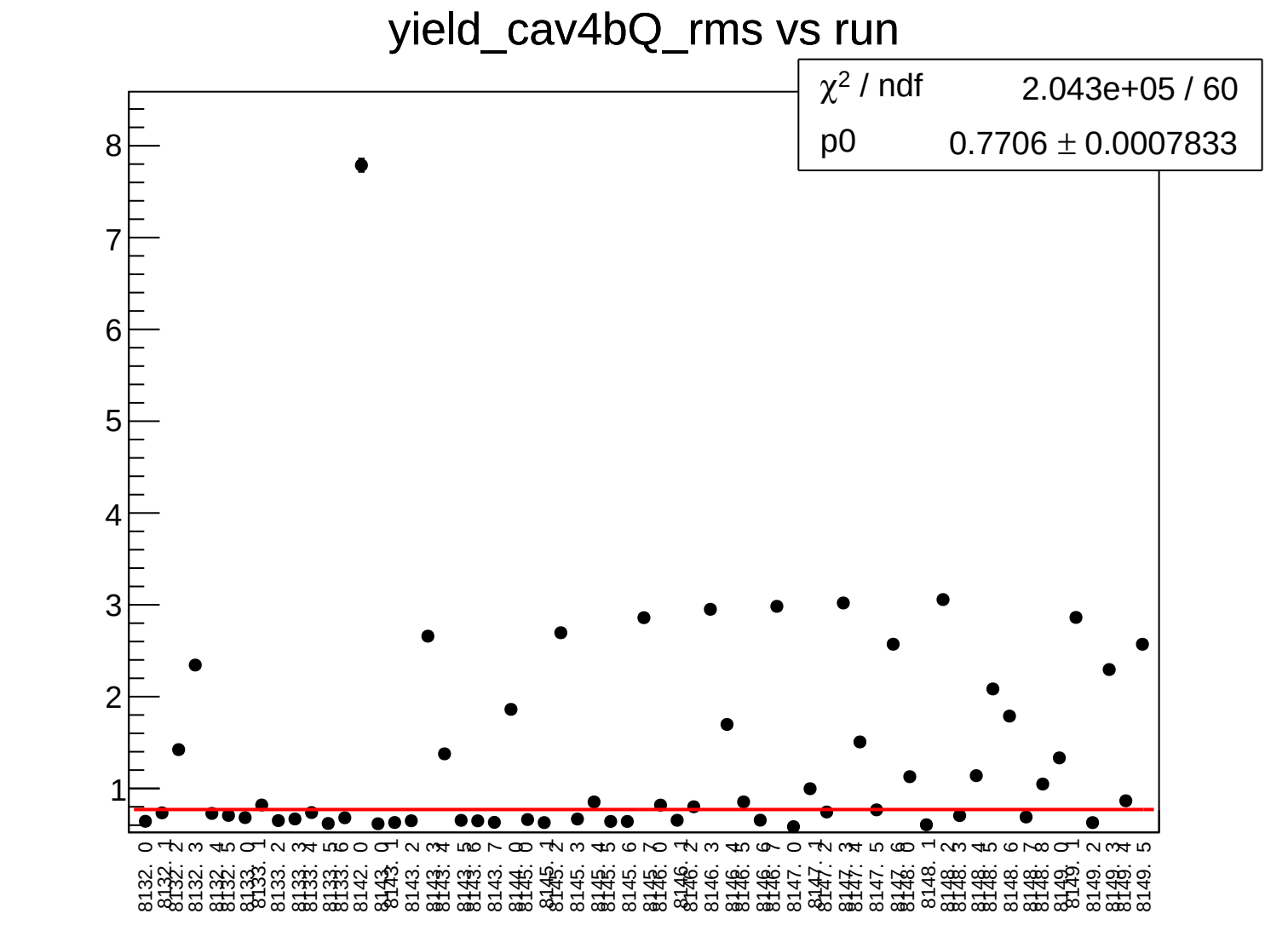

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.369e+07 / 60
p0 144.4 ± 0.0008113
148
146
144
142
140
138
136
pull
Entries 61
Mean 496.3
Std Dev 470
500
0
−500
−1000
−1500

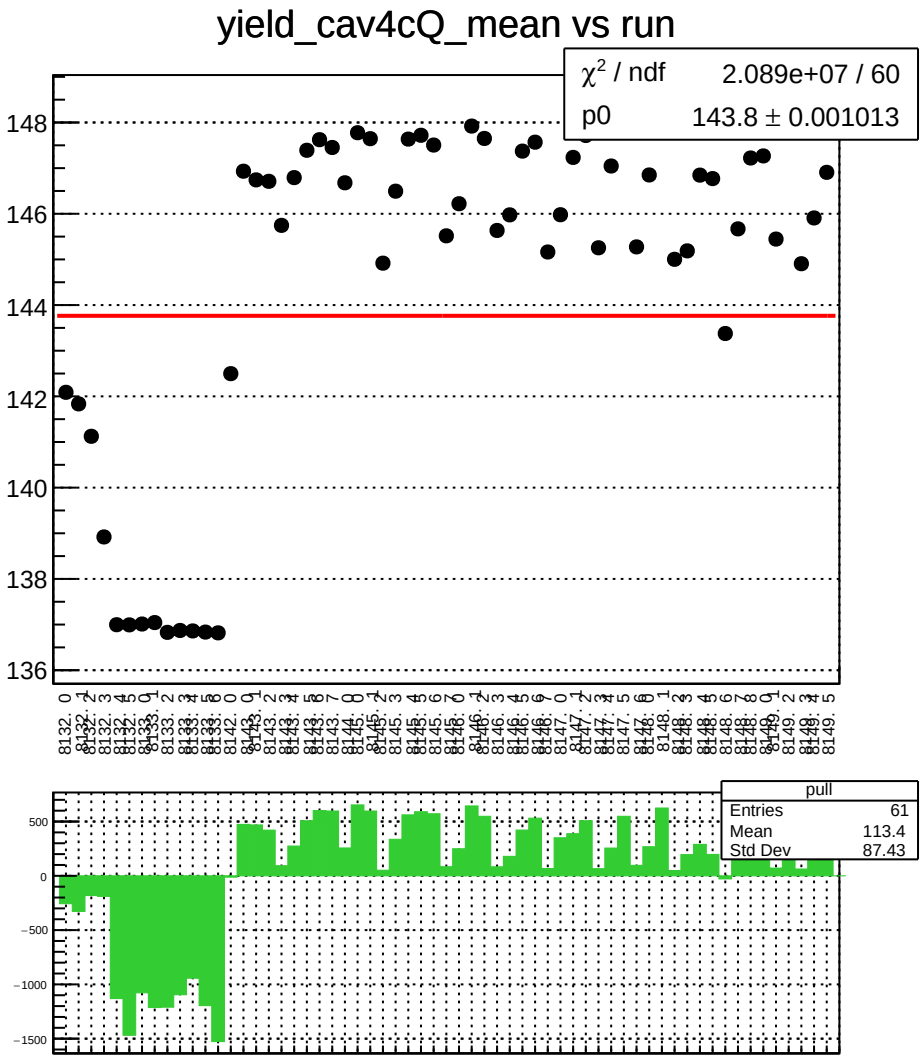

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

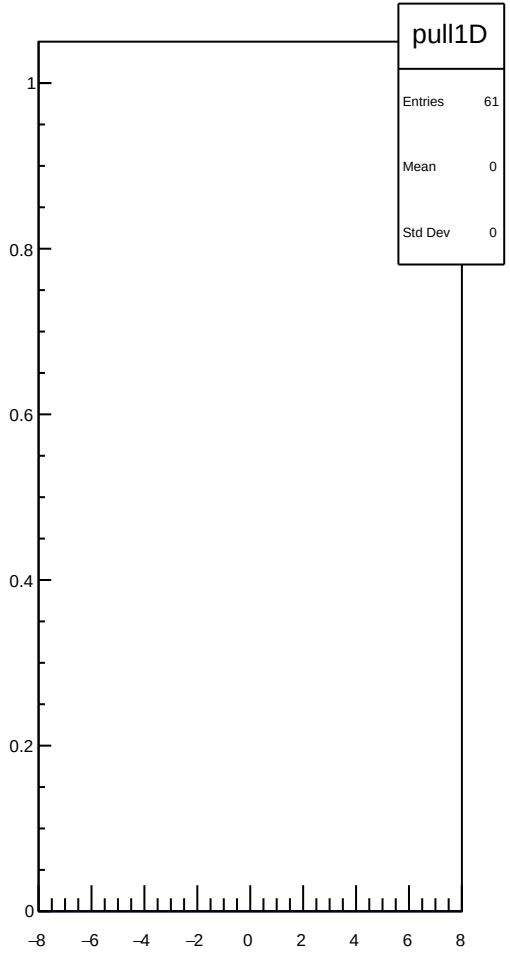

yield_bcm_dg_ds_rms vs run
χ² / ndf 3.506e+04 / 60
p0 0.6117 ± 0.0005737
8
7
6
5
4
3
2
1

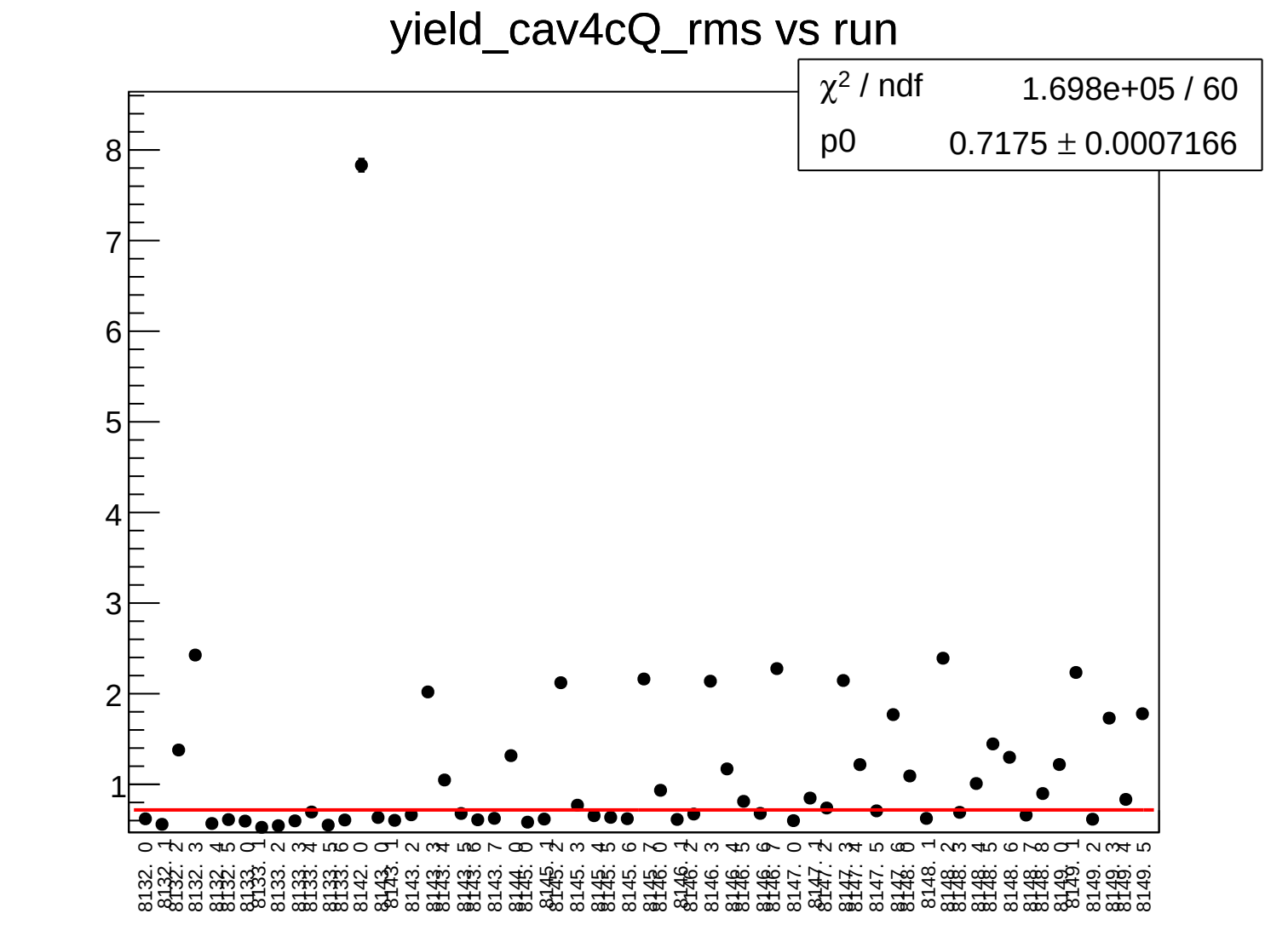

yield_cav4bQ_mean vs run
χ² / ndf 8.763e+06 / 60
p0 145.1± 0.001108
152
150
148
146
144
142
140
pull
Entries 61
Mean 115.7
Std Dev 88.47
400
200
0
−200
−400
−600
−800
−1000

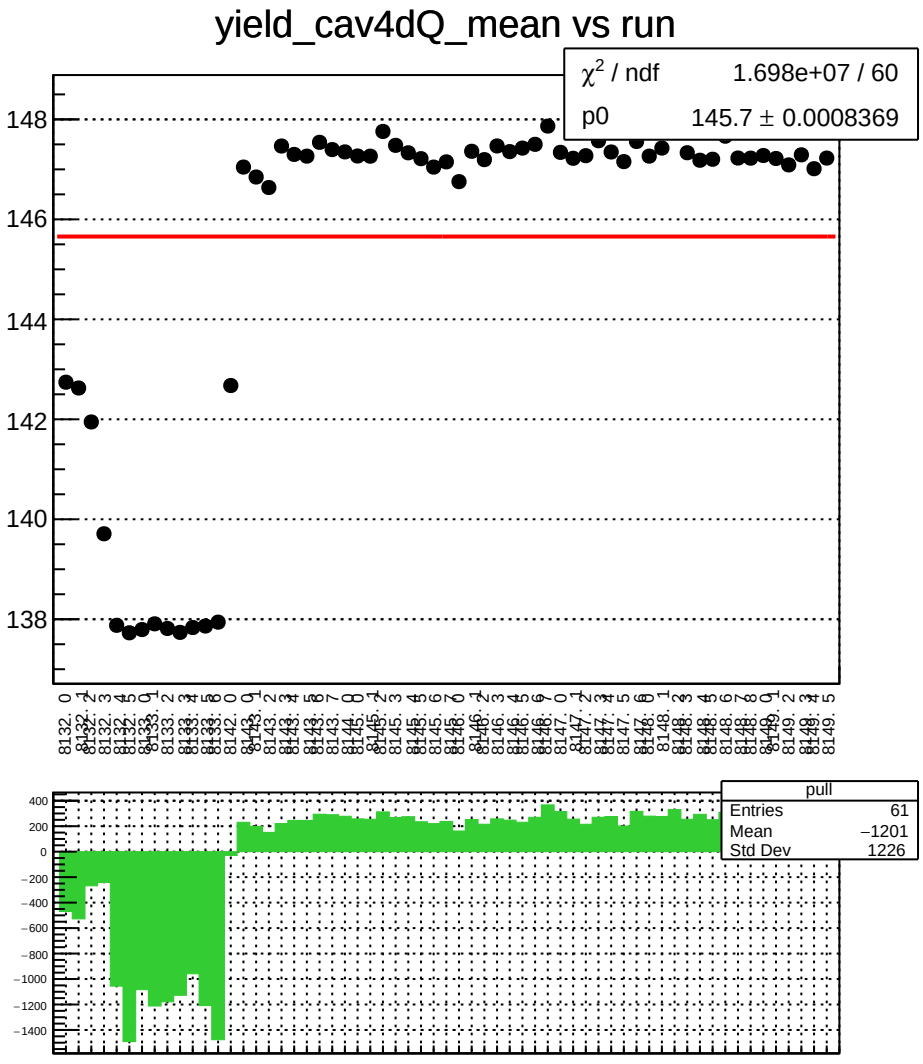

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

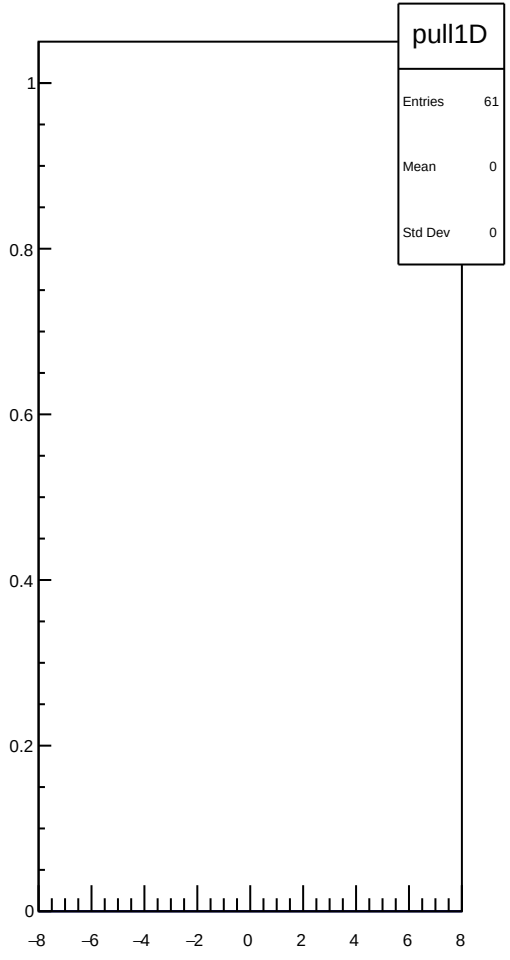

yield_cav4bQ_rms vs run
χ2 / ndf 2.043e+05 / 60
p0 0.7706 ± 0.0007833
8
7
6
5
4
3
2
1

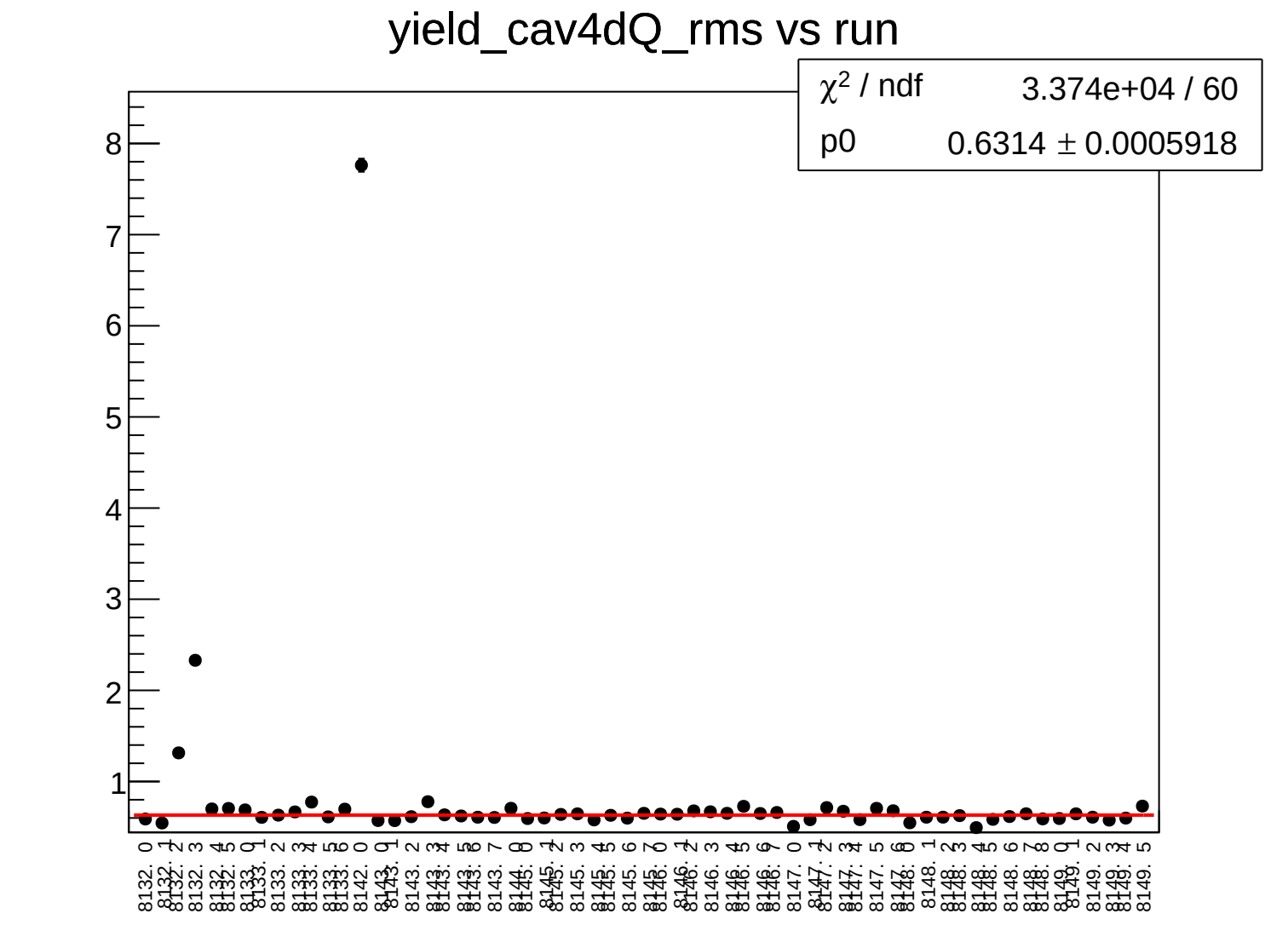

yield_cav4cQ_mean vs run
χ² / ndf 2.089e+07 / 60
p0 143.8 ± 0.001013
148
146
144
142
140
138
136
pull
Entries 61
Mean 113.4
Std Dev 87.43
500
0
−500
−1000
−1500

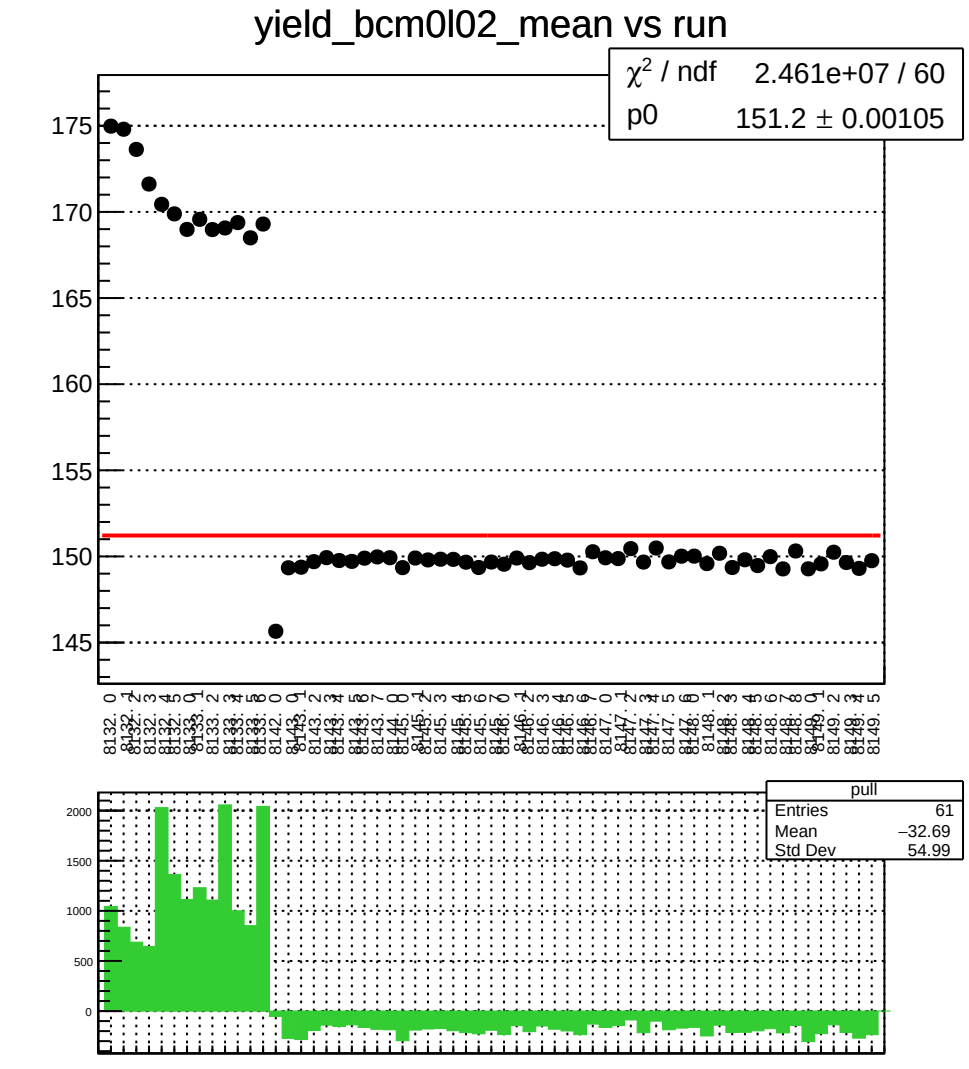

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

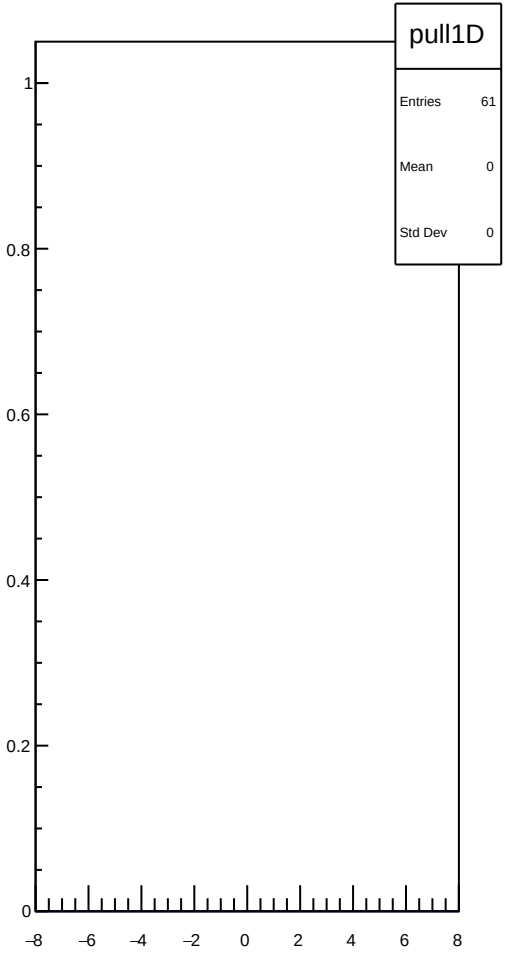

yield_cav4cQ_rms vs run
χ² / ndf 1.698e+05 / 60
p0 0.7175 ± 0.0007166
8
7
6
5
4
3
2
1

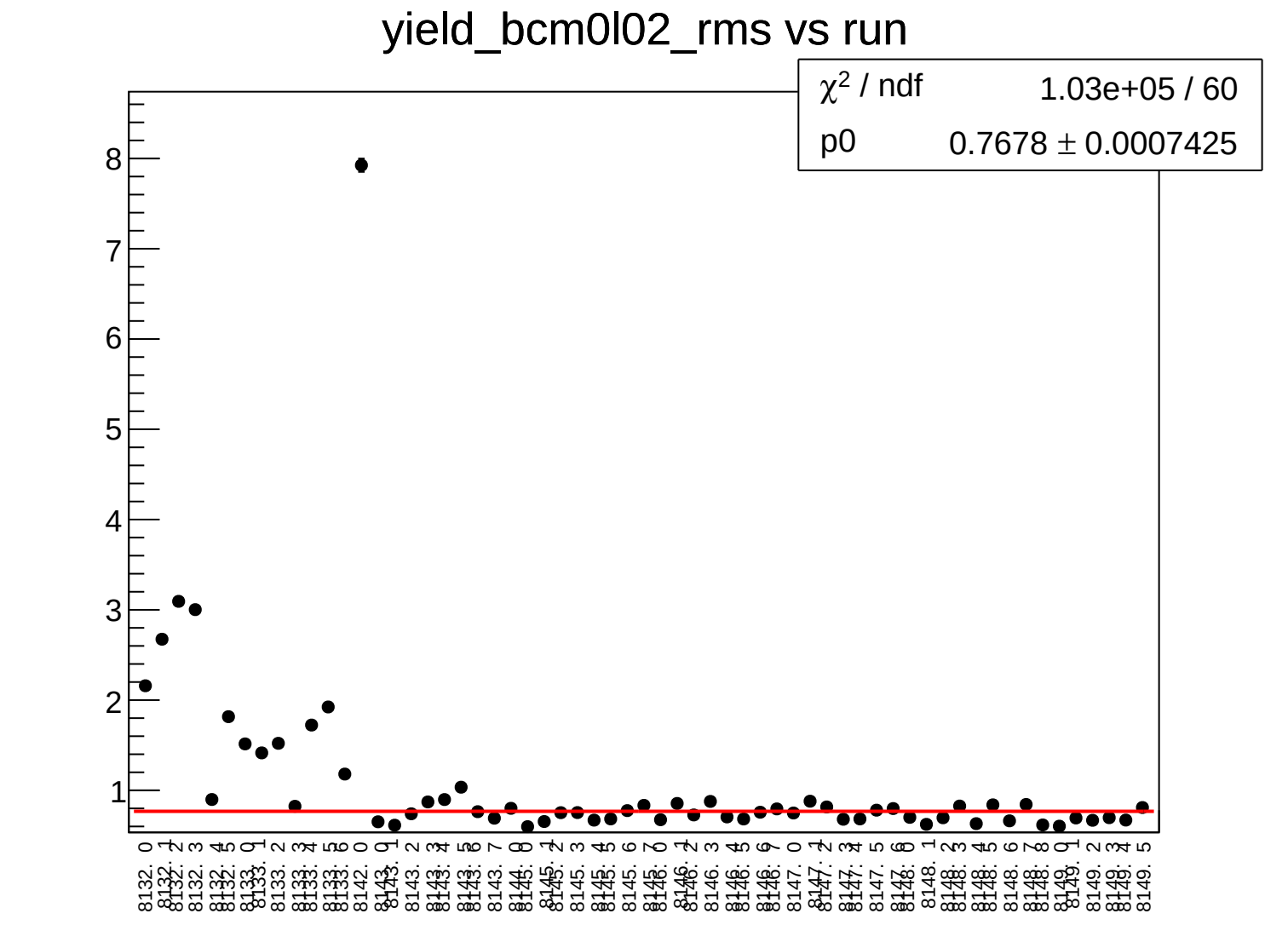

yield_cav4dQ_mean vs run
χ² / ndf 1.698e+07 / 60
p0 145.7 ± 0.0008369
148
146
144
142
140
138
pull
Entries 61
Mean −1201
Std Dev 1226
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

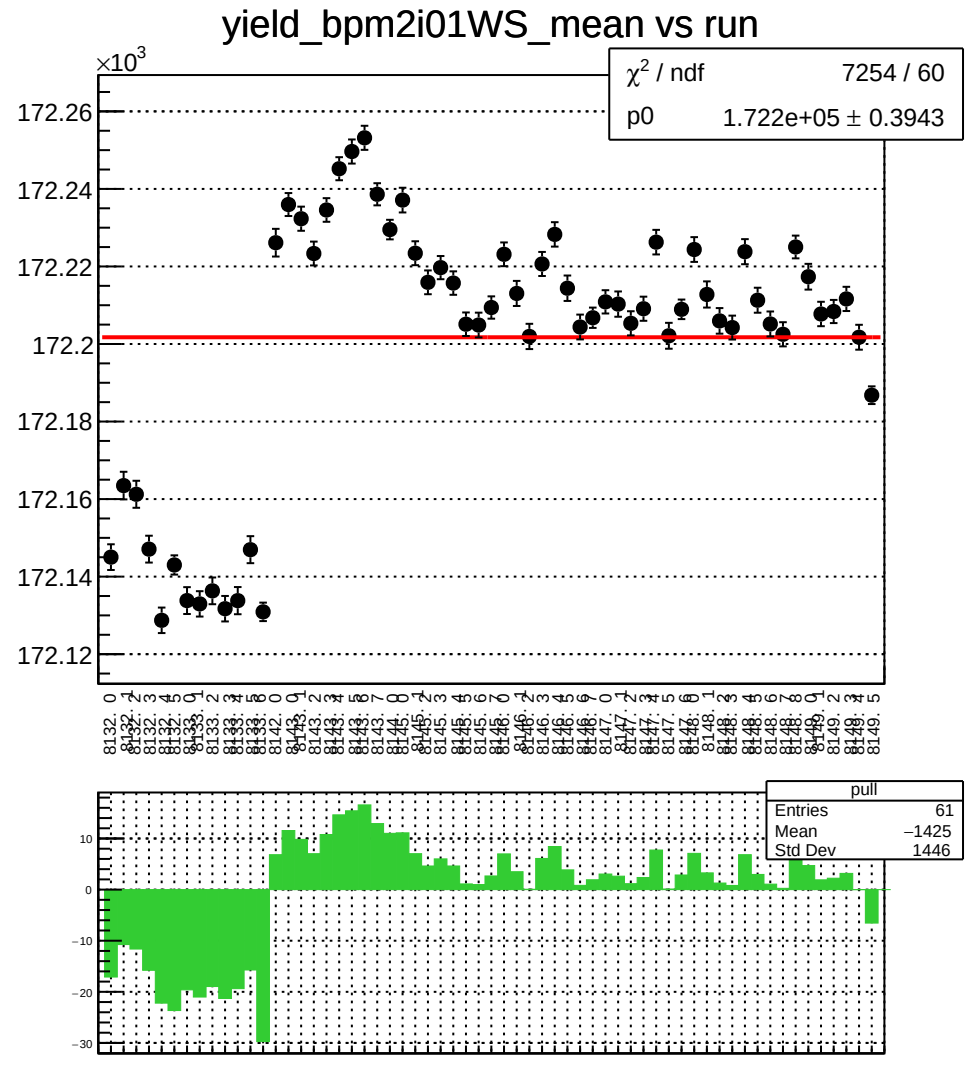

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

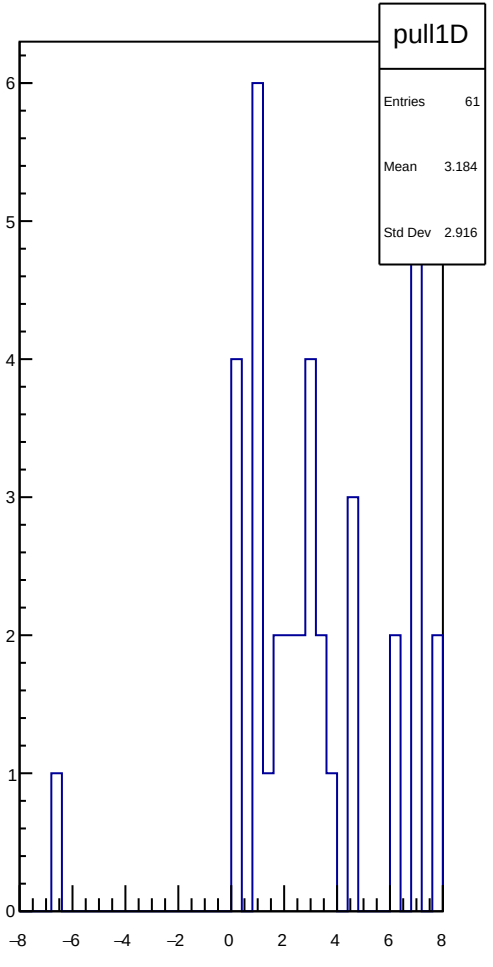

yield_cav4dQ_rms vs run
χ² / ndf 3.374e+04 / 60
p0 0.6314 ± 0.0005918
8
7
6
5
4
3
2
1
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 0
8133. 1
8133. 2
8133. 3
8133. 4
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

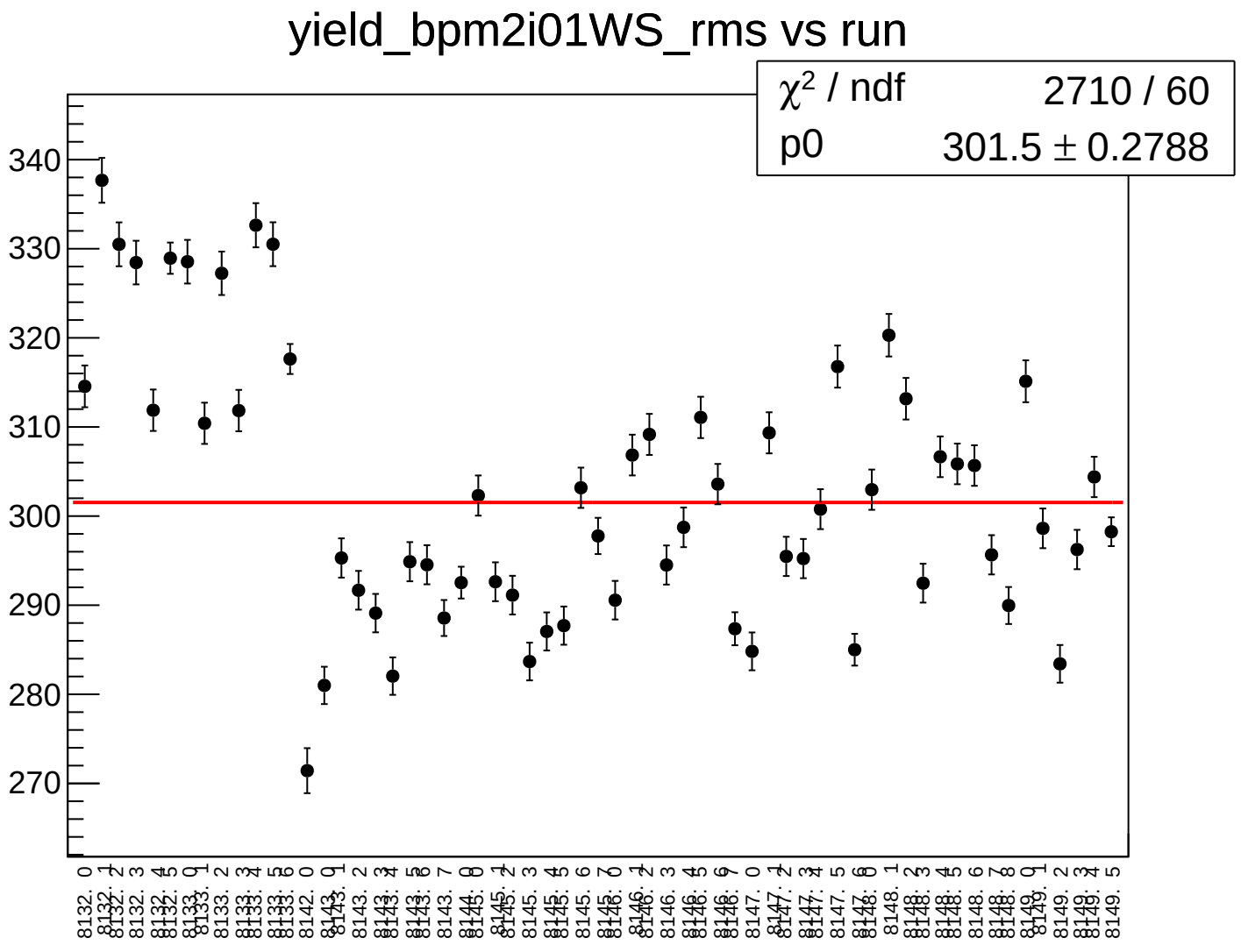

yield_bcm0l02_mean vs run
χ² / ndf 2.461e+07 / 60
p0 151.2 ± 0.00105
175
170
165
160
155
150
145
pull
Entries 61
Mean −32.69
Std Dev 54.99
2000
1500
1000
500
0

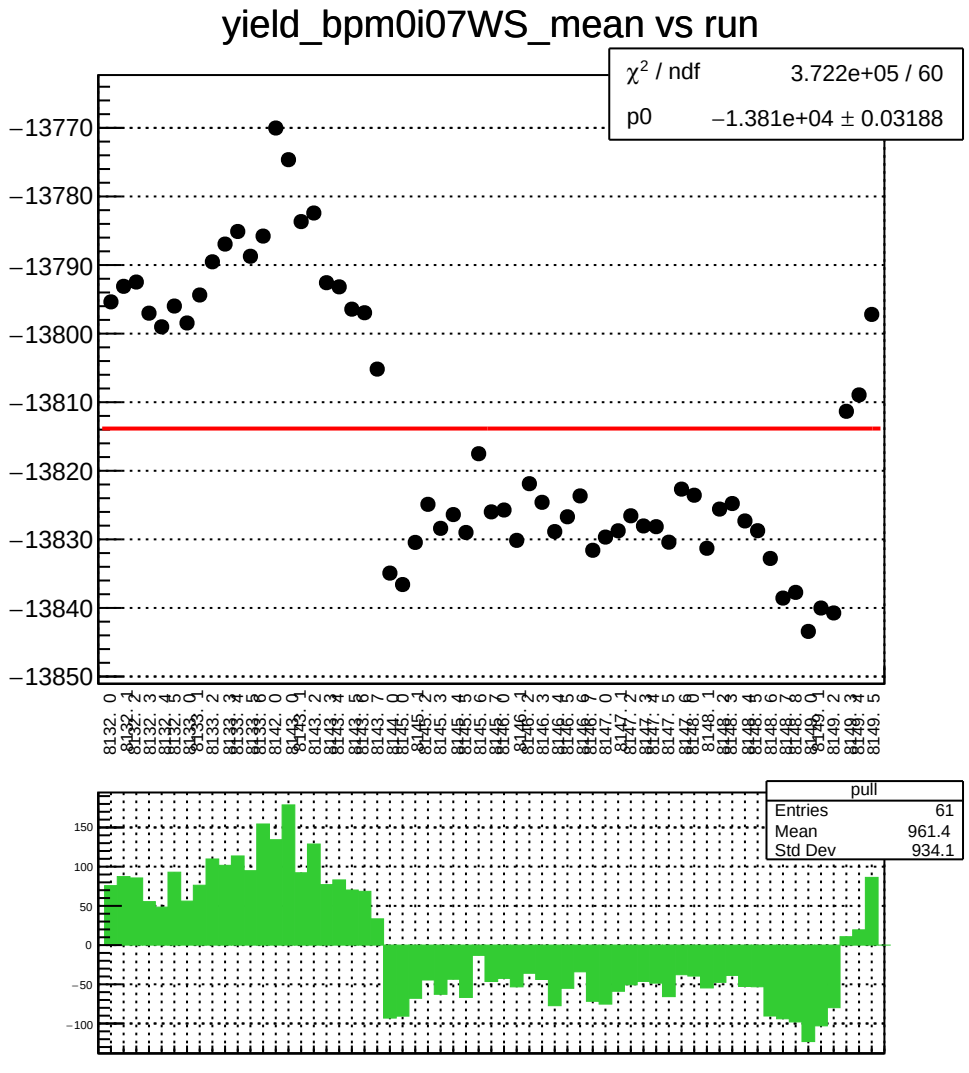

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

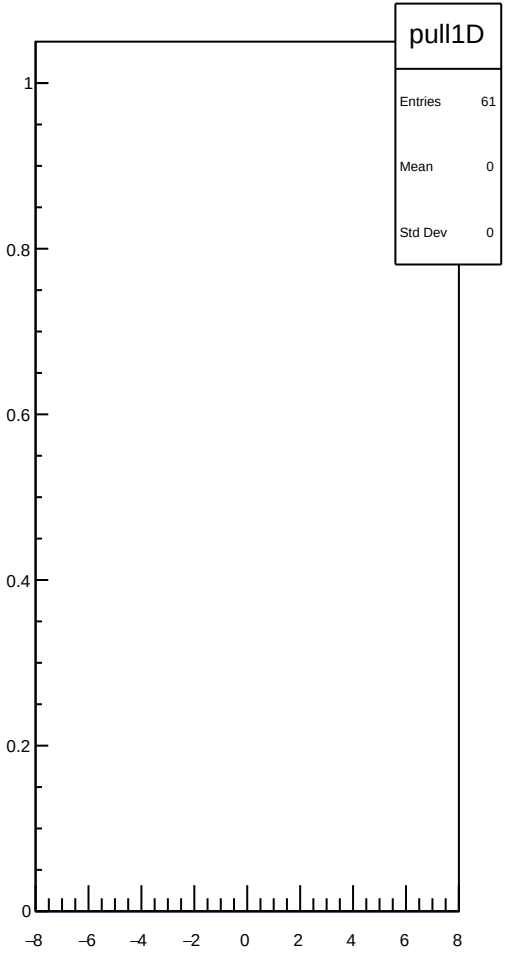

yield_bcm0l02_rms vs run
χ² / ndf 1.03e+05 / 60
p0 0.7678 ± 0.0007425
8
7
6
5
4
3
2
1

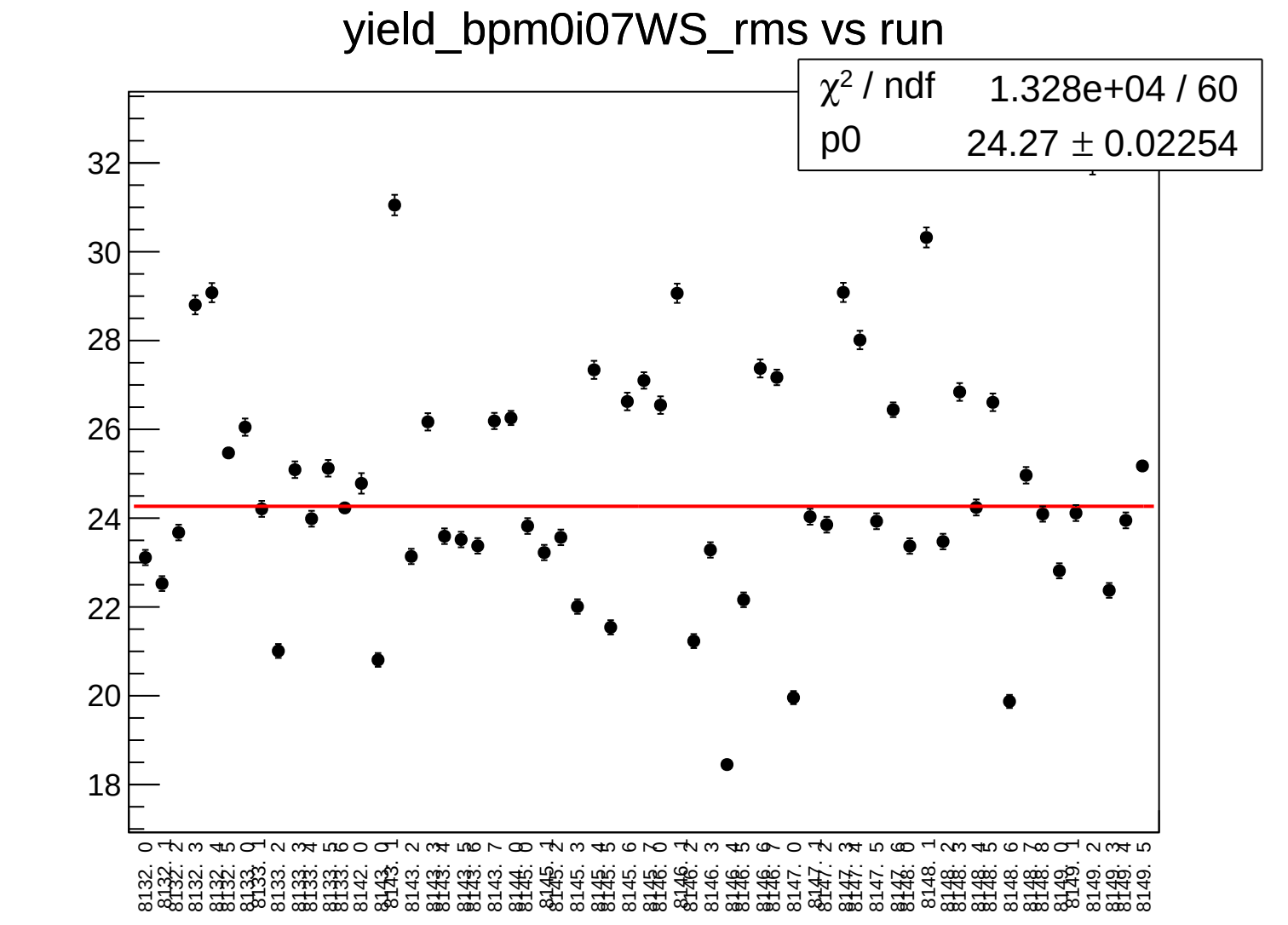

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 7254 / 60
p0 1.722e+05 ± 0.3943
172.26
172.24
172.22
172.2
172.18
172.16
172.14
172.12
pull
Entries 61
Mean −1425
Std Dev 1446
10
0
−10
−20
−30

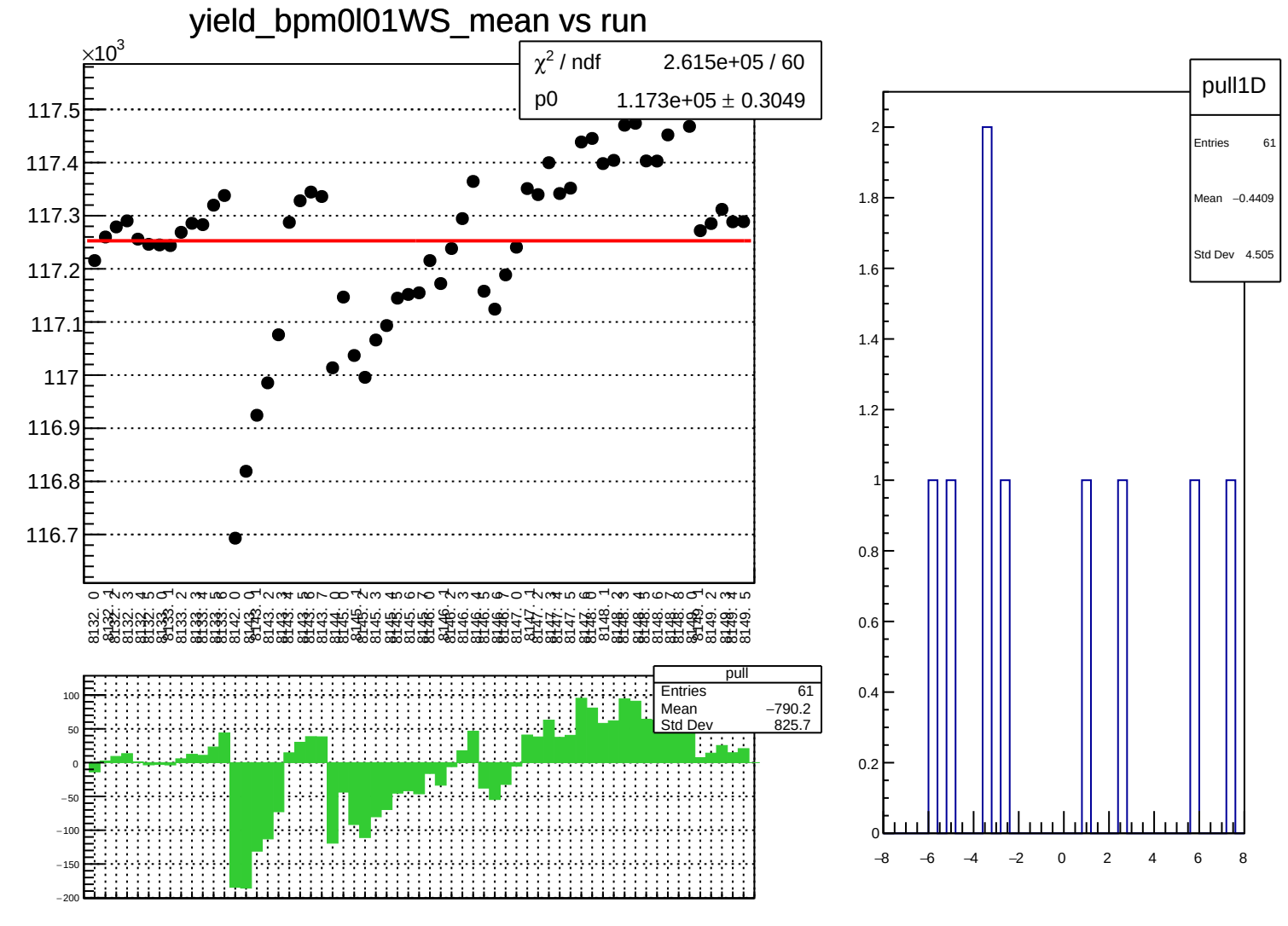

pull1D
Entries 61
Mean 3.184
Std Dev 2.916
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

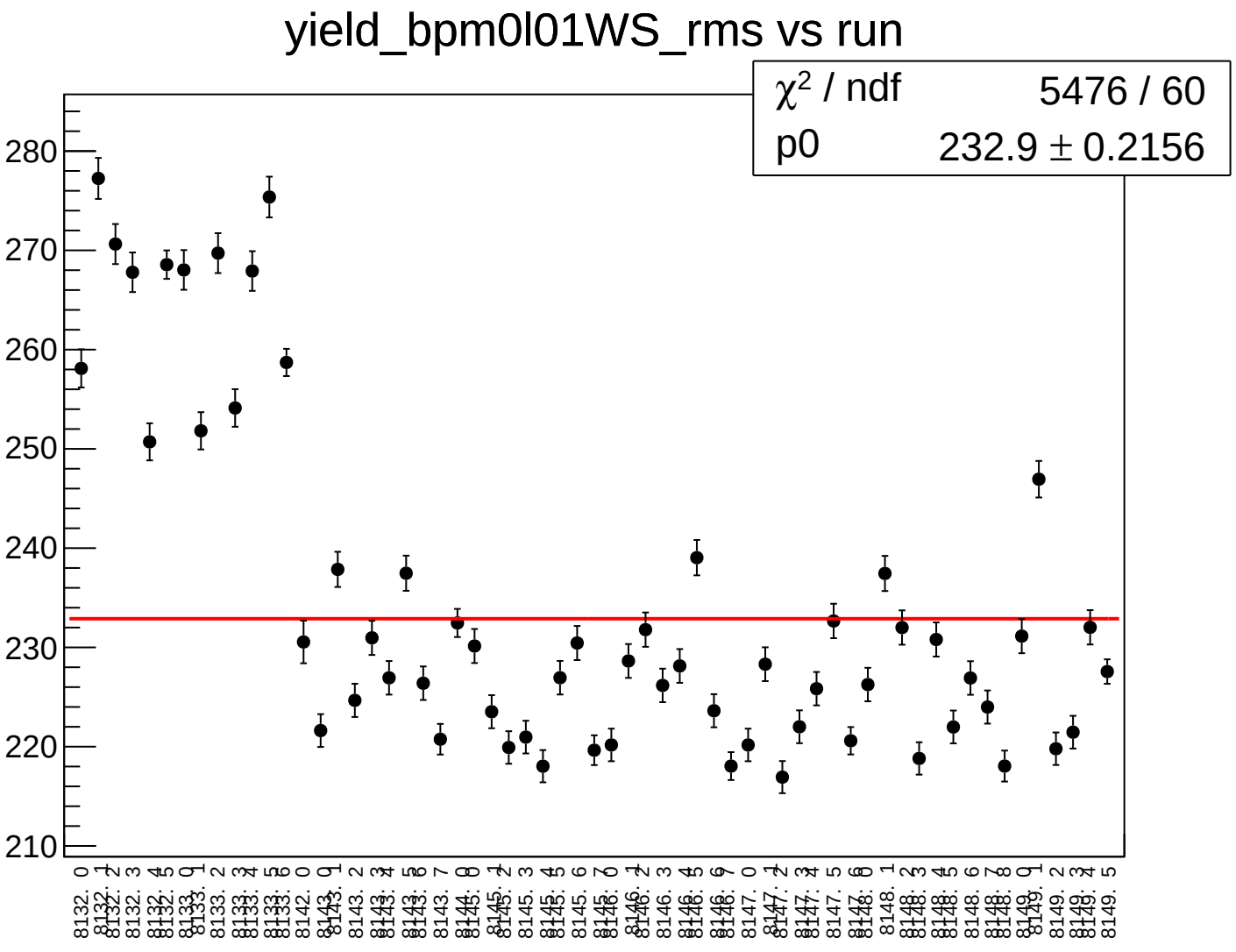

yield_bpm2i01WS_rms vs run
χ² / ndf 2710 / 60
p0 301.5 ± 0.2788
340
330
320
310
300
290
280
270
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 0
8133. 1
8133. 2
8133. 3
8133. 4
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

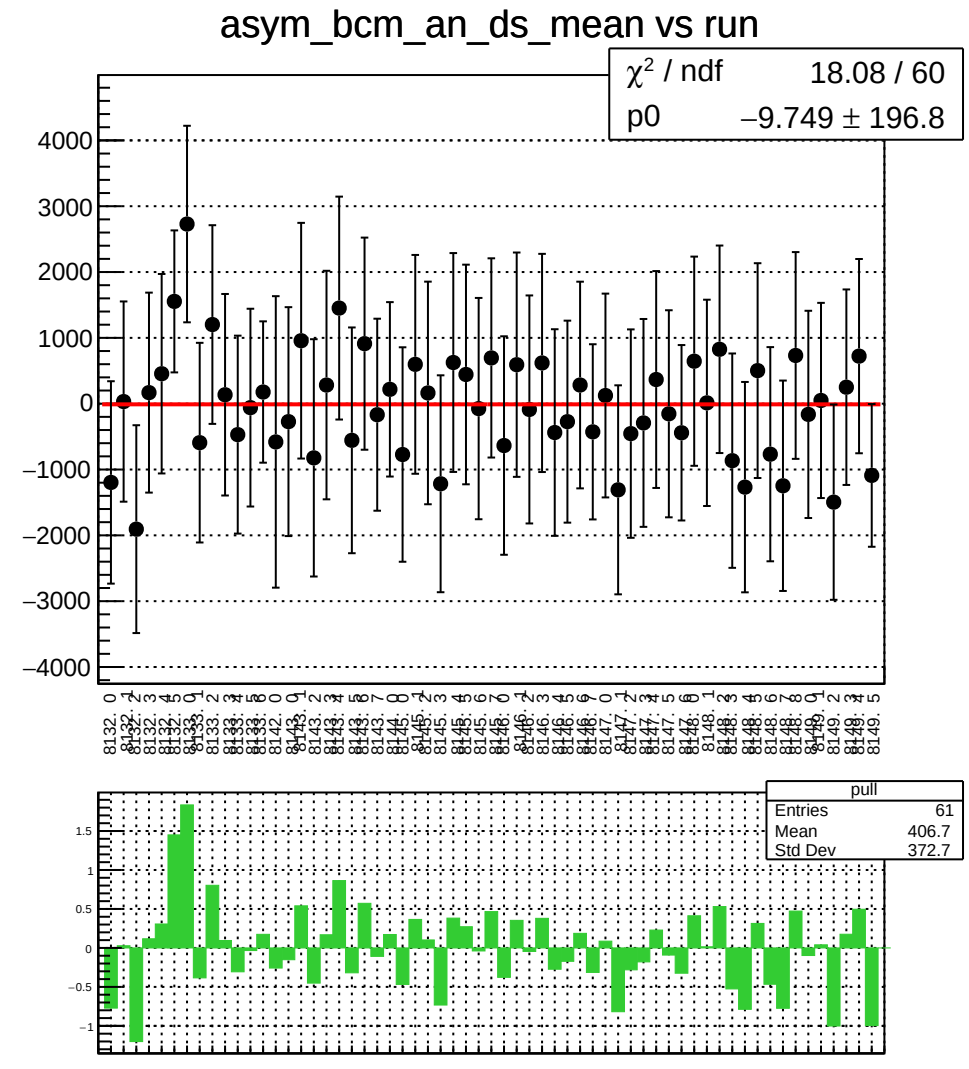

yield_bpm0i07WS_mean vs run
χ² / ndf 3.722e+05 / 60
p0 −1.381e+04 ± 0.03188
−13770
−13780
−13790
−13800
−13810
−13820
−13830
−13840
−13850
pull
Entries 61
Mean 961.4
Std Dev 934.1
150
100
50
0
−50
−100

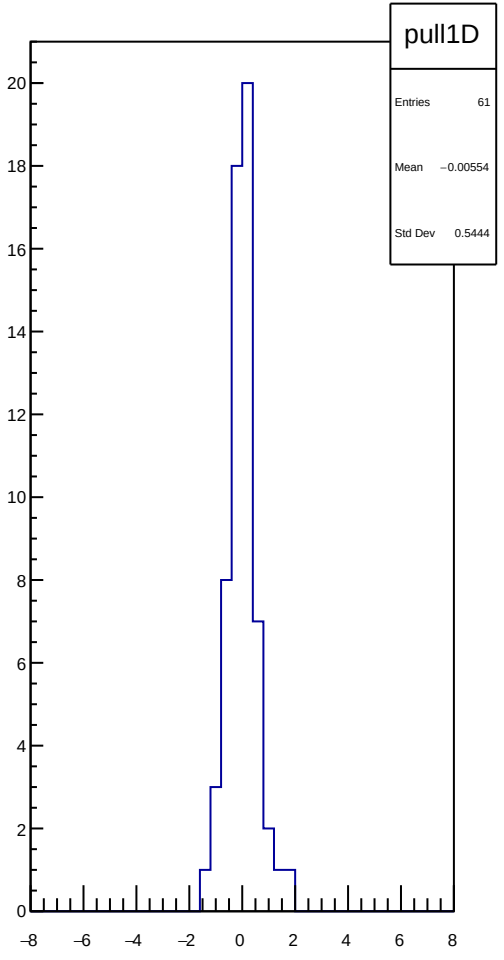

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

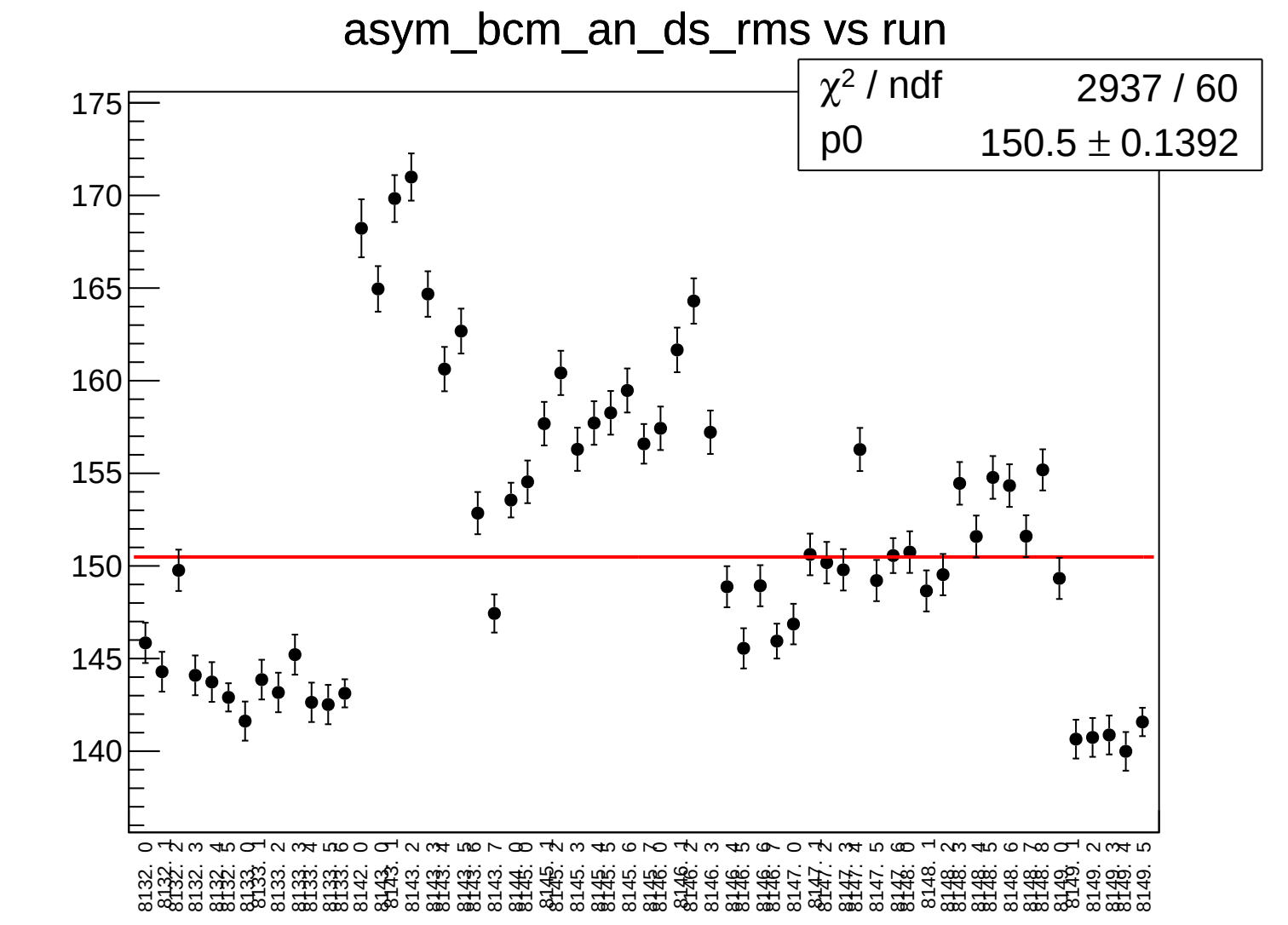

yield_bpm0i07WS_rms vs run
χ² / ndf 1.328e+04 / 60
p0 24.27 ± 0.02254
32
30
28
26
24
22
20
18

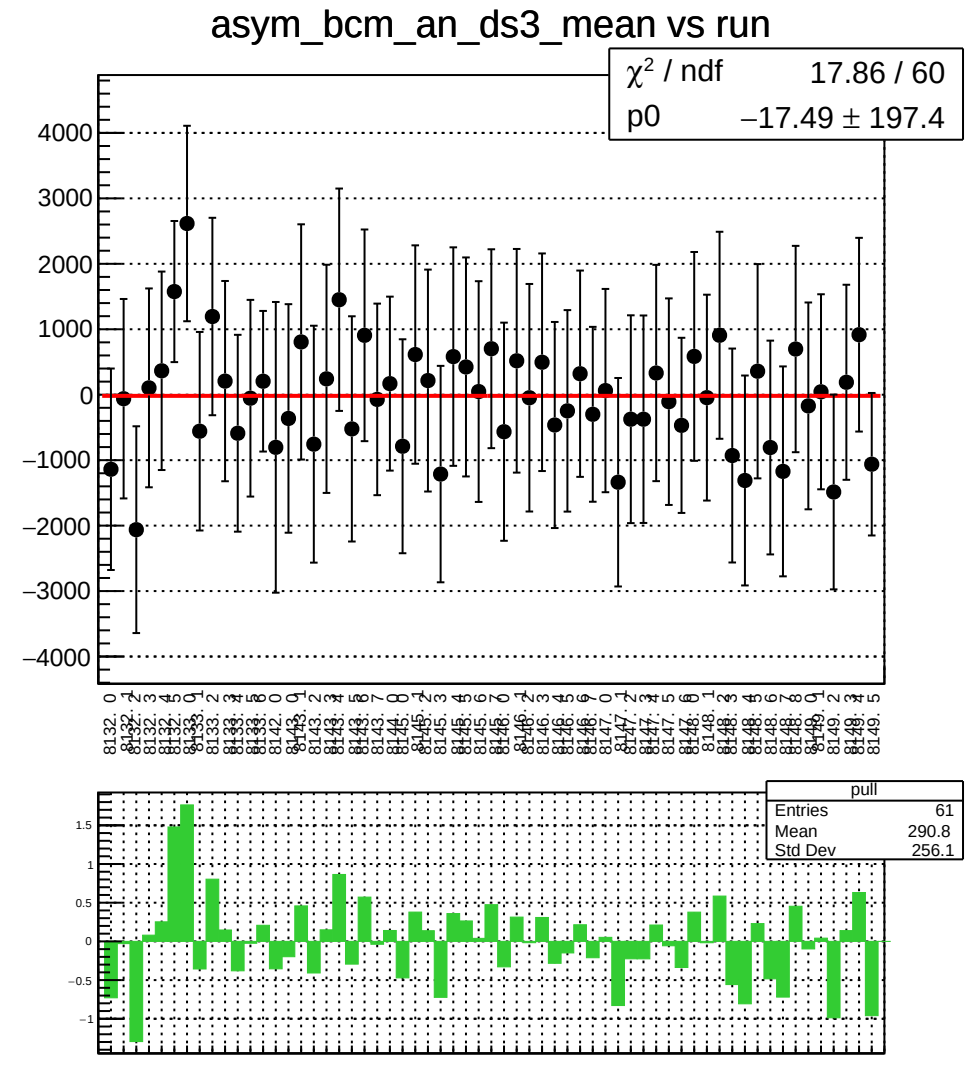

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.615e+05 / 60
p0 1.173e+05 ± 0.3049
117.5
117.4
117.3
117.2
117.1
117
116.9
116.8
116.7
pull
Entries 61
Mean −790.2
Std Dev 825.7
100
50
0
−50
−100
−150
−200
pull1D
Entries 61
Mean −0.4409
Std Dev 4.505
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

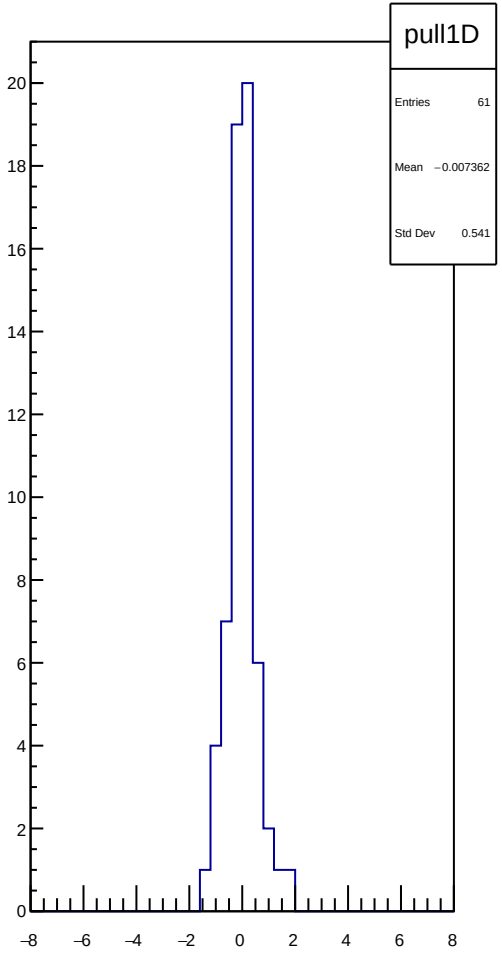

yield_bpm0l01WS_rms vs run
χ² / ndf 5476 / 60
p0 232.9 ± 0.2156
280
270
260
250
240
230
220
210
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 0
8133. 1
8133. 2
8133. 3
8133. 4
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

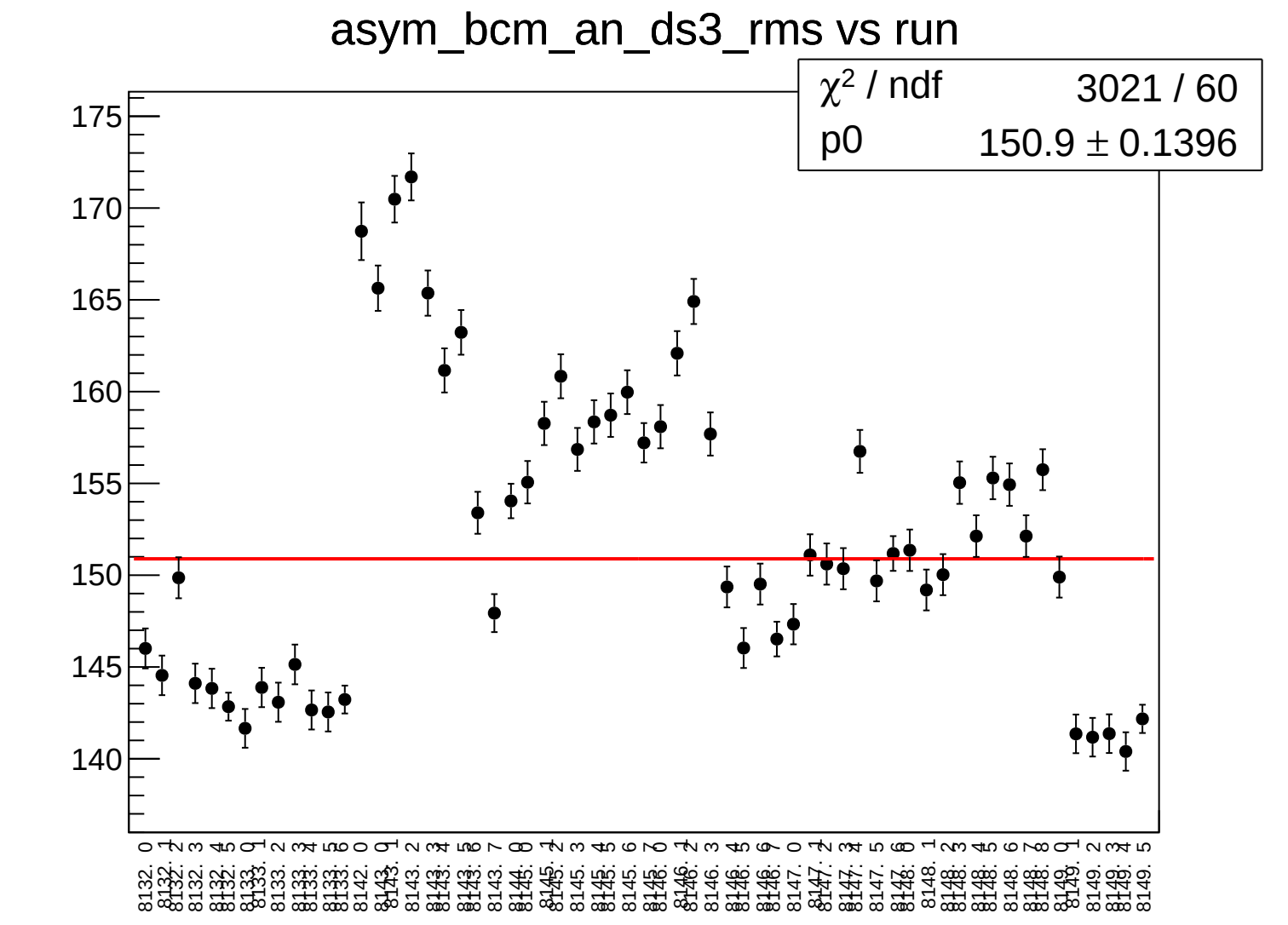

asym_bcm_an_ds_mean vs run
χ² / ndf 18.08 / 60
p0 −9.749 ± 196.8
pull
Entries 61
Mean 406.7
Std Dev 372.7

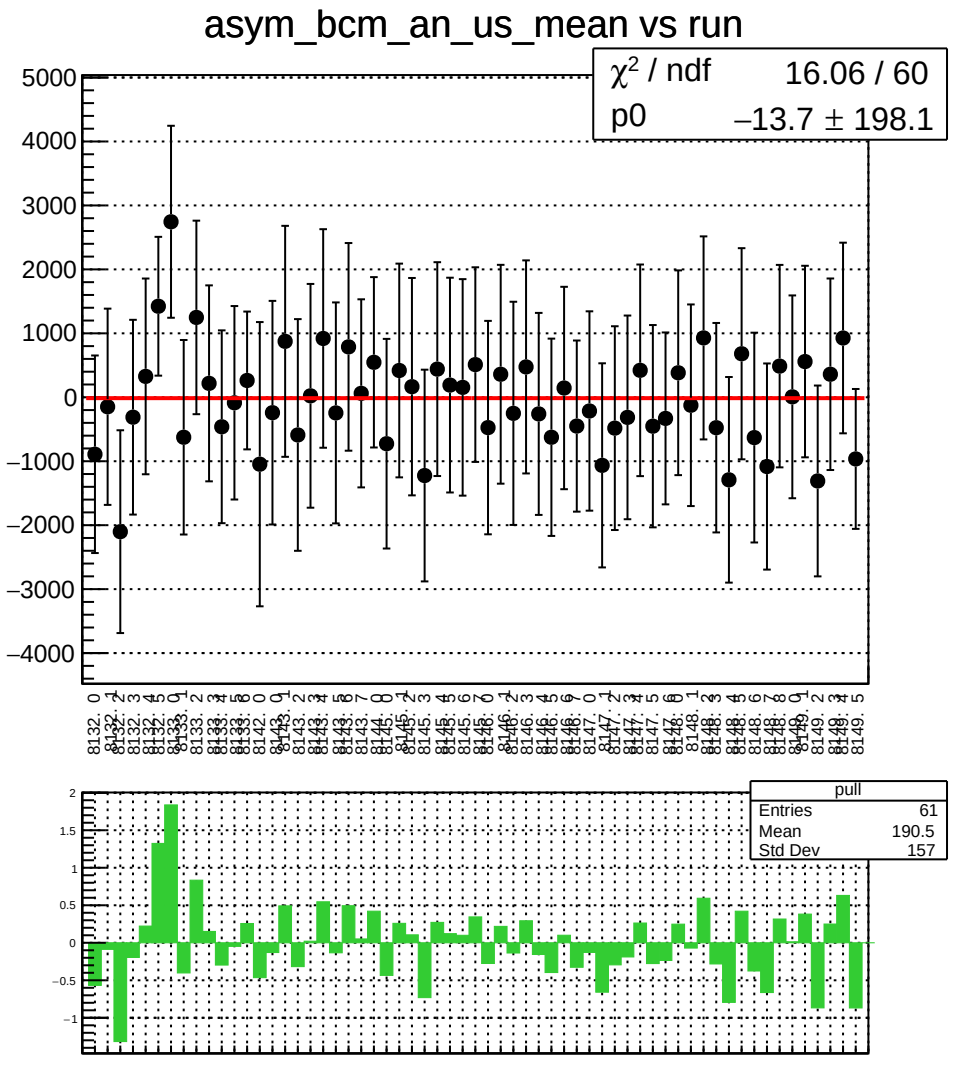

pull1D
Entries 61
Mean −0.00554
Std Dev 0.5444

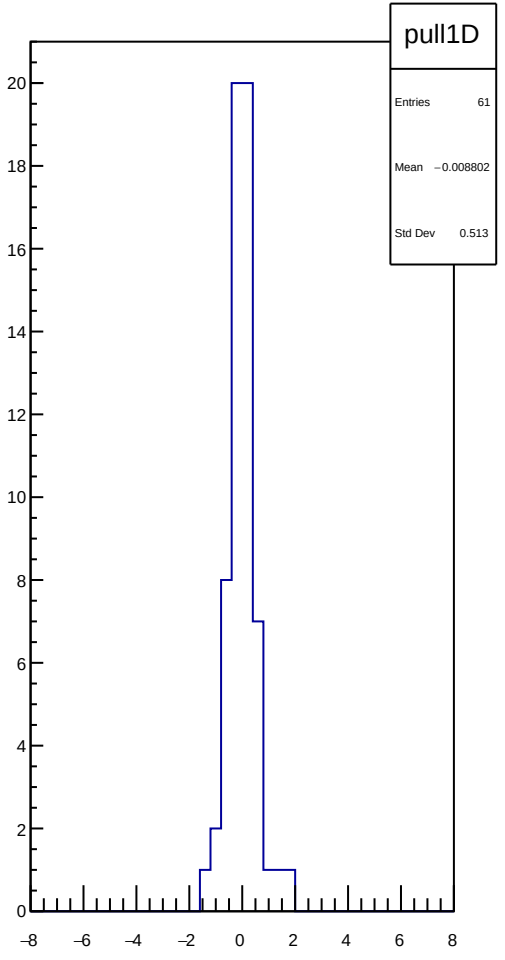

asym_bcm_an_ds_rms vs run
χ² / ndf 2937 / 60
p0 150.5 ± 0.1392
175
170
165
160
155
150
145
140

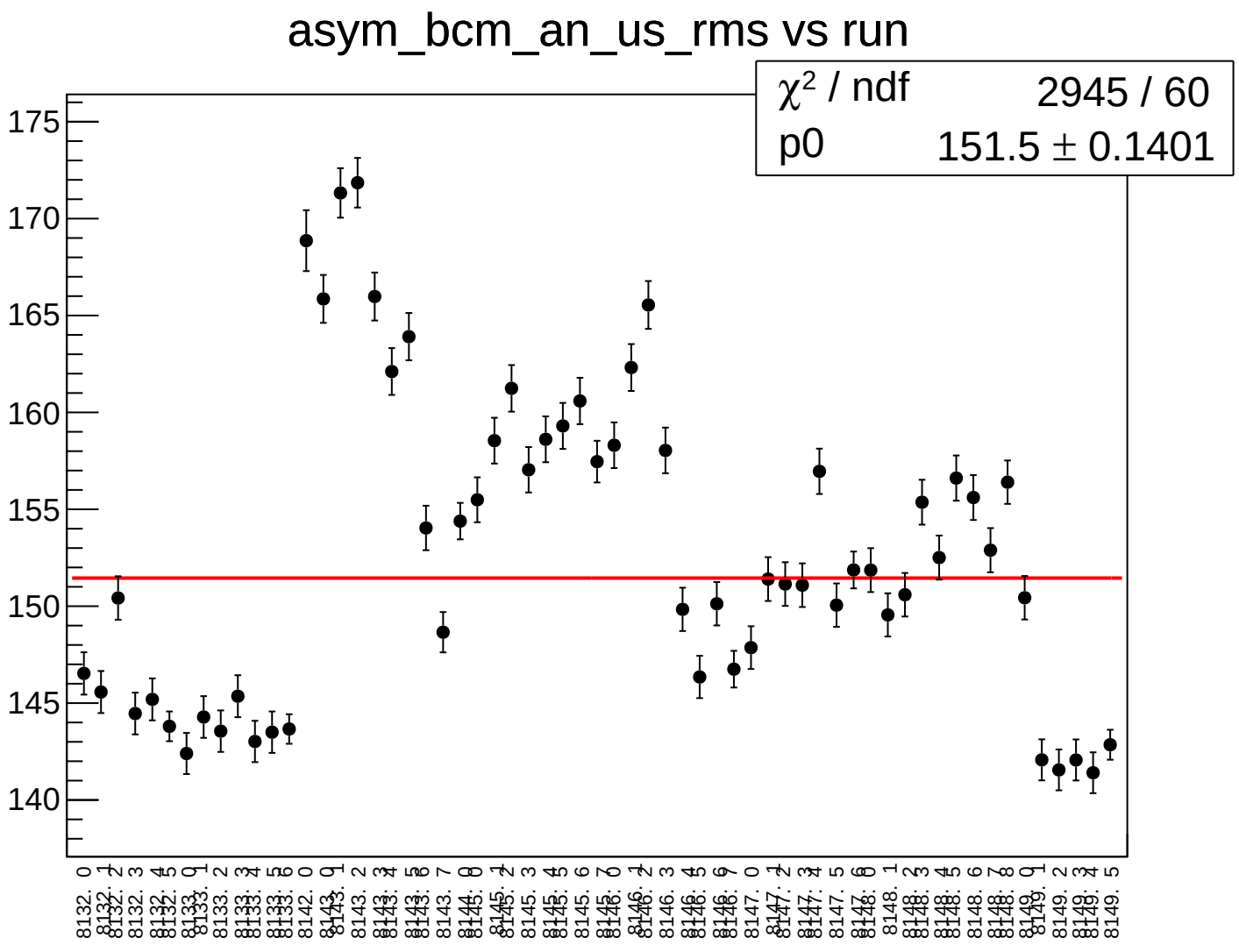

asym_bcm_an_ds3_mean vs run
χ² / ndf 17.86 / 60
p0 −17.49 ± 197.4
pull
Entries 61
Mean 290.8
Std Dev 256.1

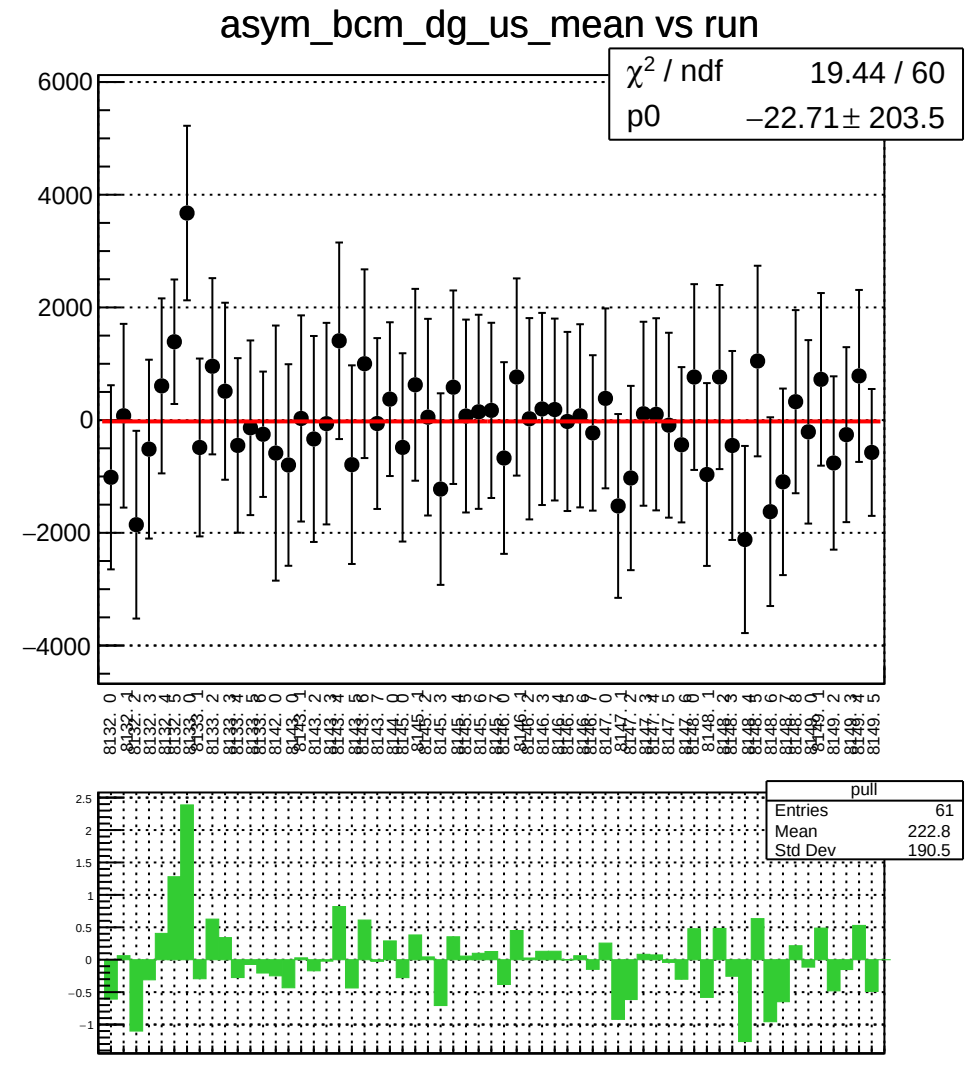

pull1D
Entries 61
Mean −0.007362
Std Dev 0.541

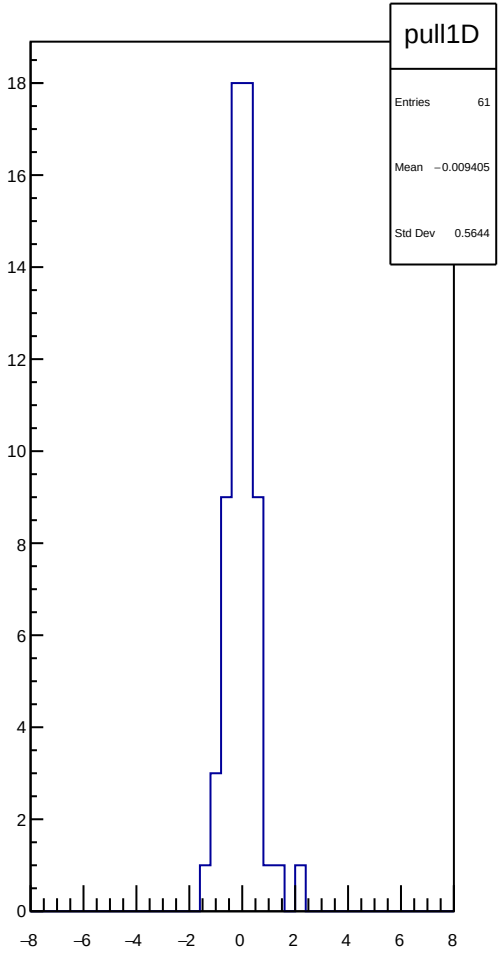

asym_bcm_an_ds3_rms vs run
χ² / ndf 3021 / 60
p0 150.9 ± 0.1396
175
170
165
160
155
150
145
140

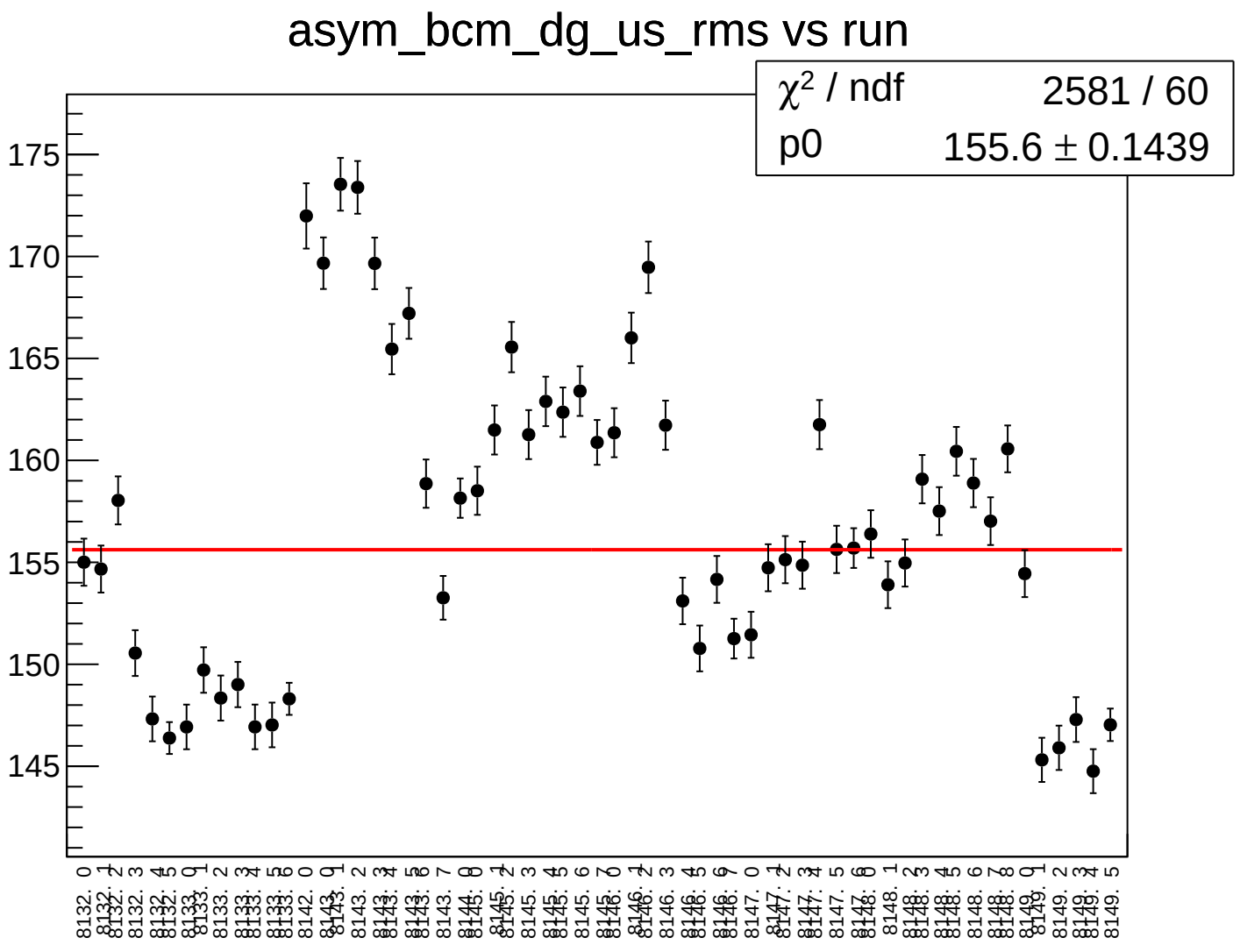

asym_bcm_an_us_mean vs run
χ² / ndf 16.06 / 60
p0 −13.7 ± 198.1
pull
Entries 61
Mean 190.5
Std Dev 157

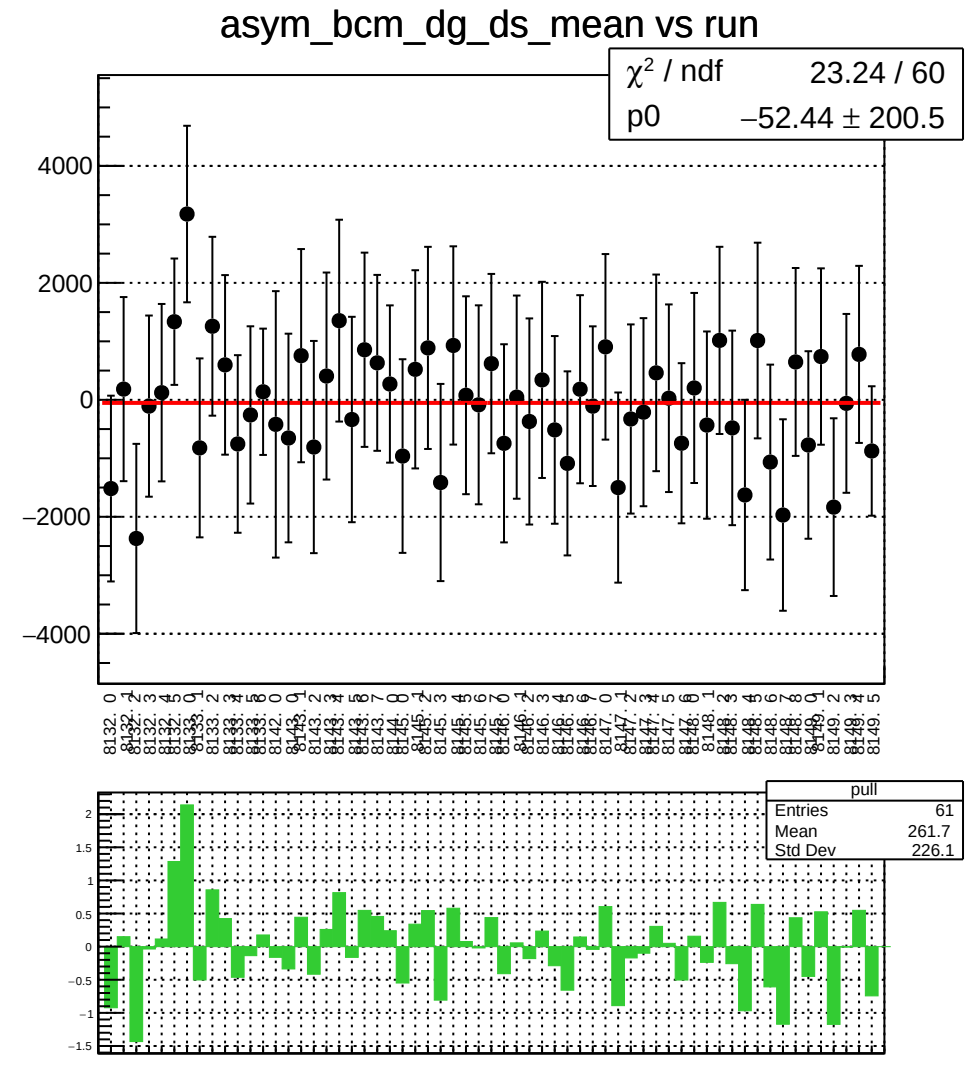

pull1D
Entries 61
Mean −0.008802
Std Dev 0.513

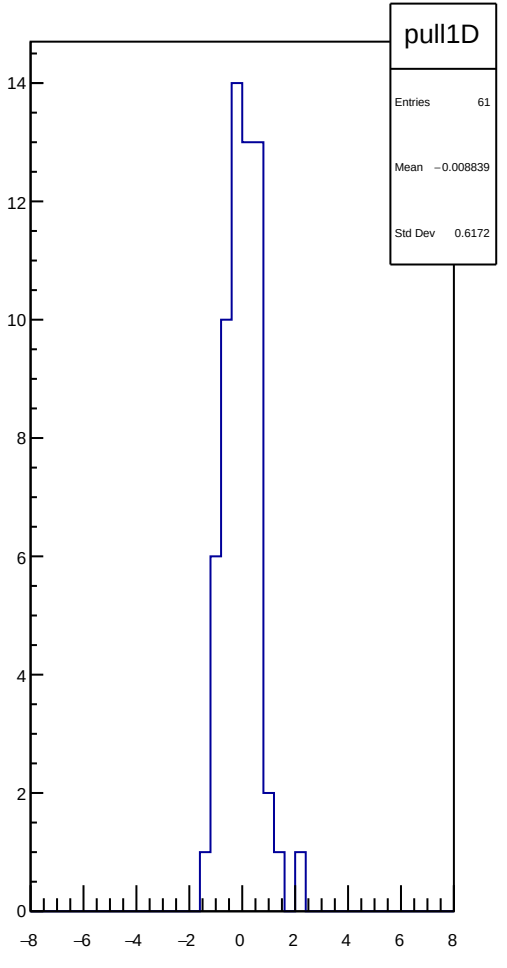

asym_bcm_an_us_rms vs run
χ² / ndf 2945 / 60
p0 151.5 ± 0.1401
175
170
165
160
155
150
145
140

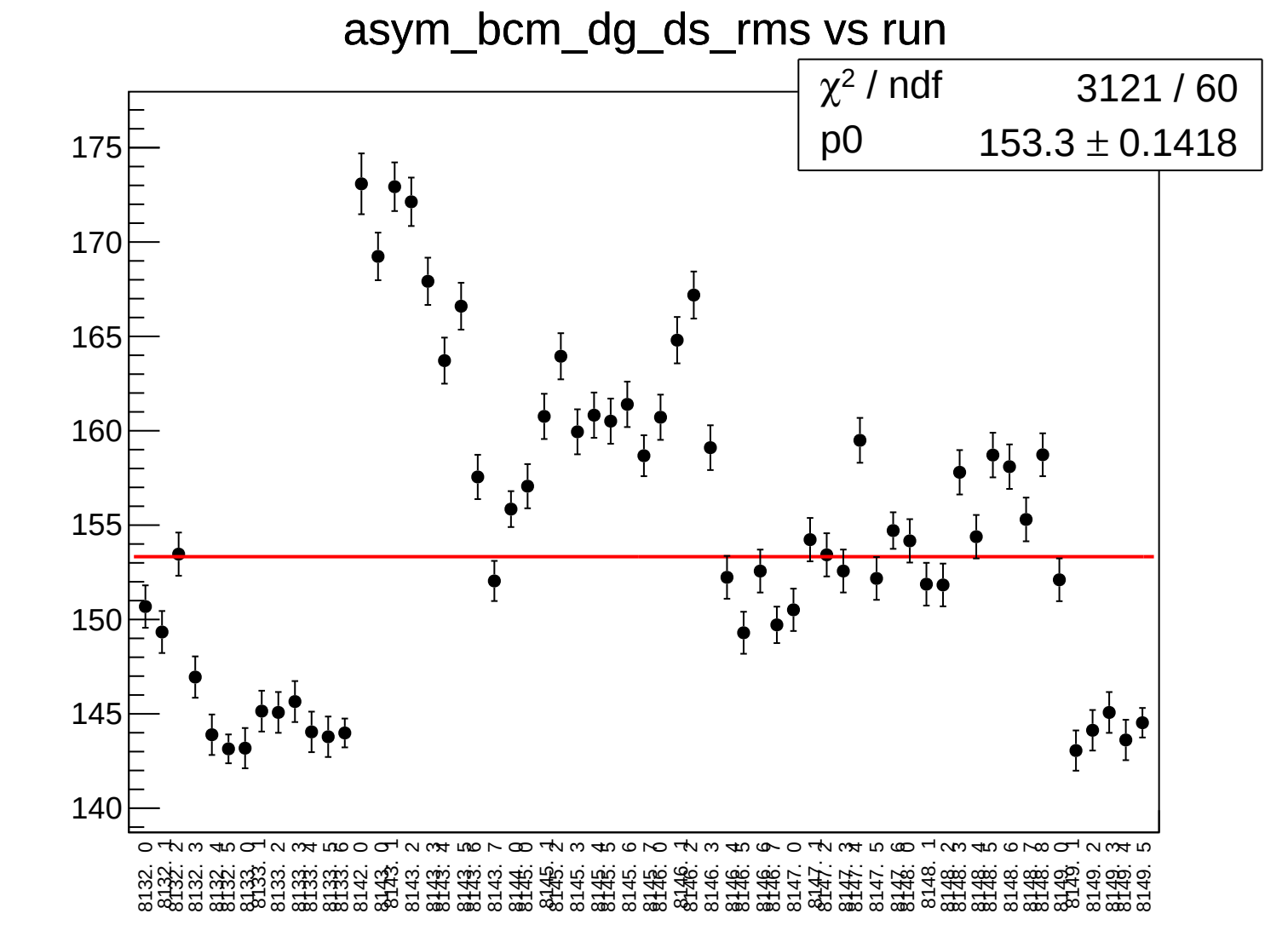

asym_bcm_dg_us_mean vs run
χ² / ndf 19.44 / 60
p0 −22.71± 203.5
pull
Entries 61
Mean 222.8
Std Dev 190.5

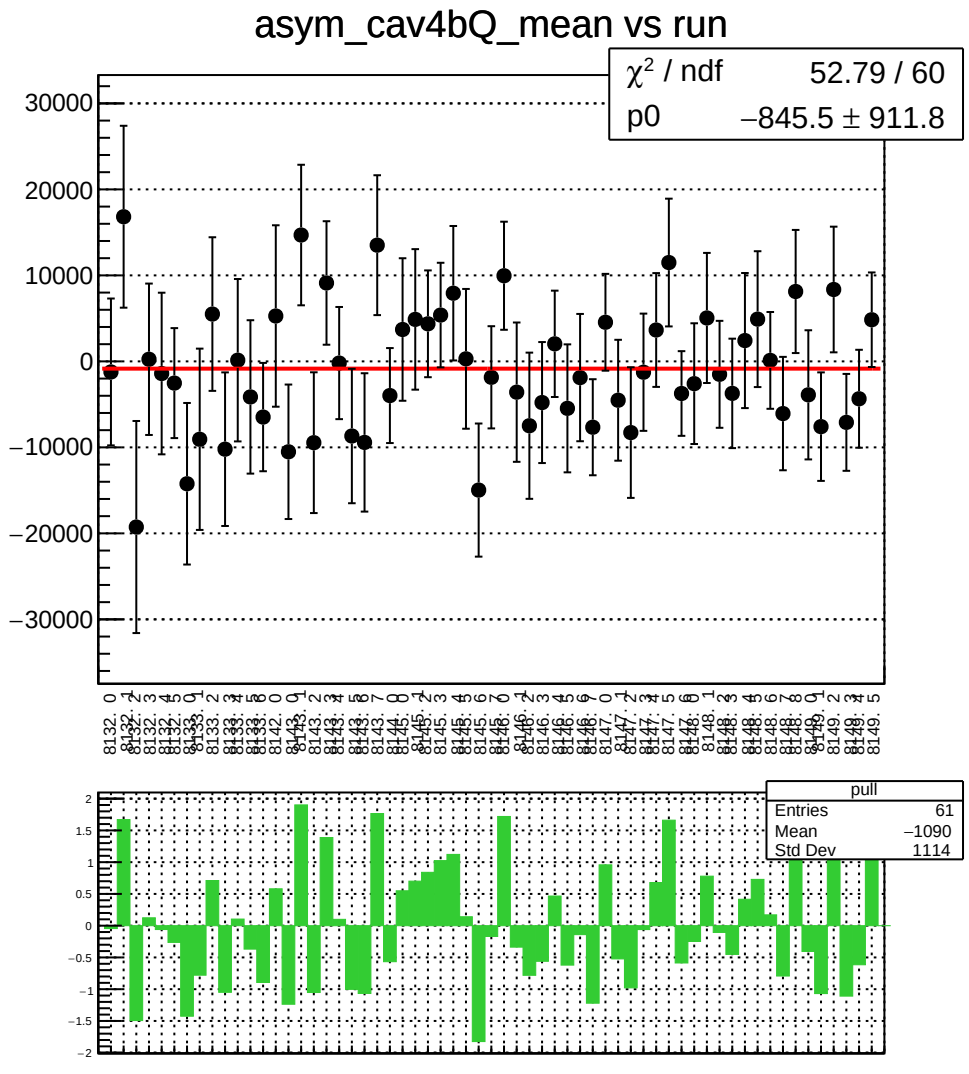

pull1D
Entries 61
Mean −0.009405
Std Dev 0.5644

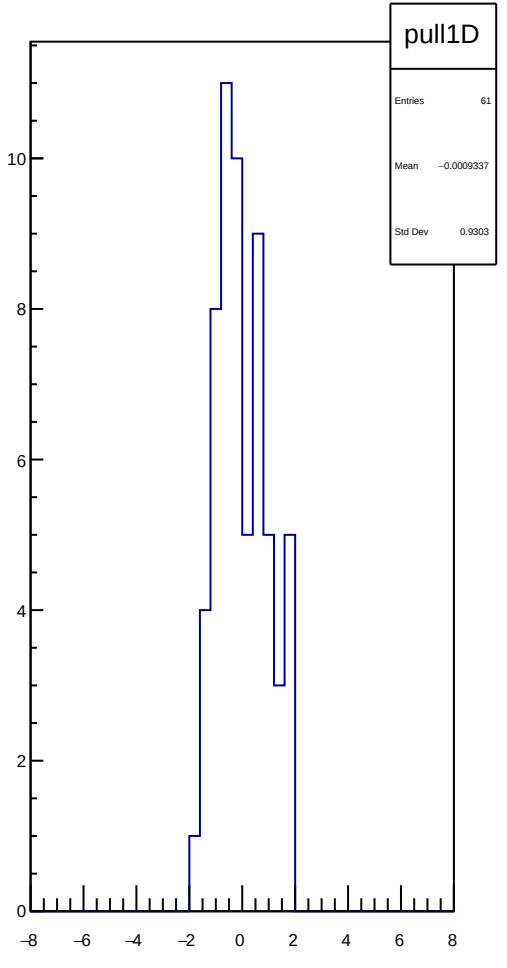

asym_bcm_dg_us_rms vs run
χ^2 / ndf 2581 / 60
p0 155.6 ± 0.1439
175
170
165
160
155
150
145

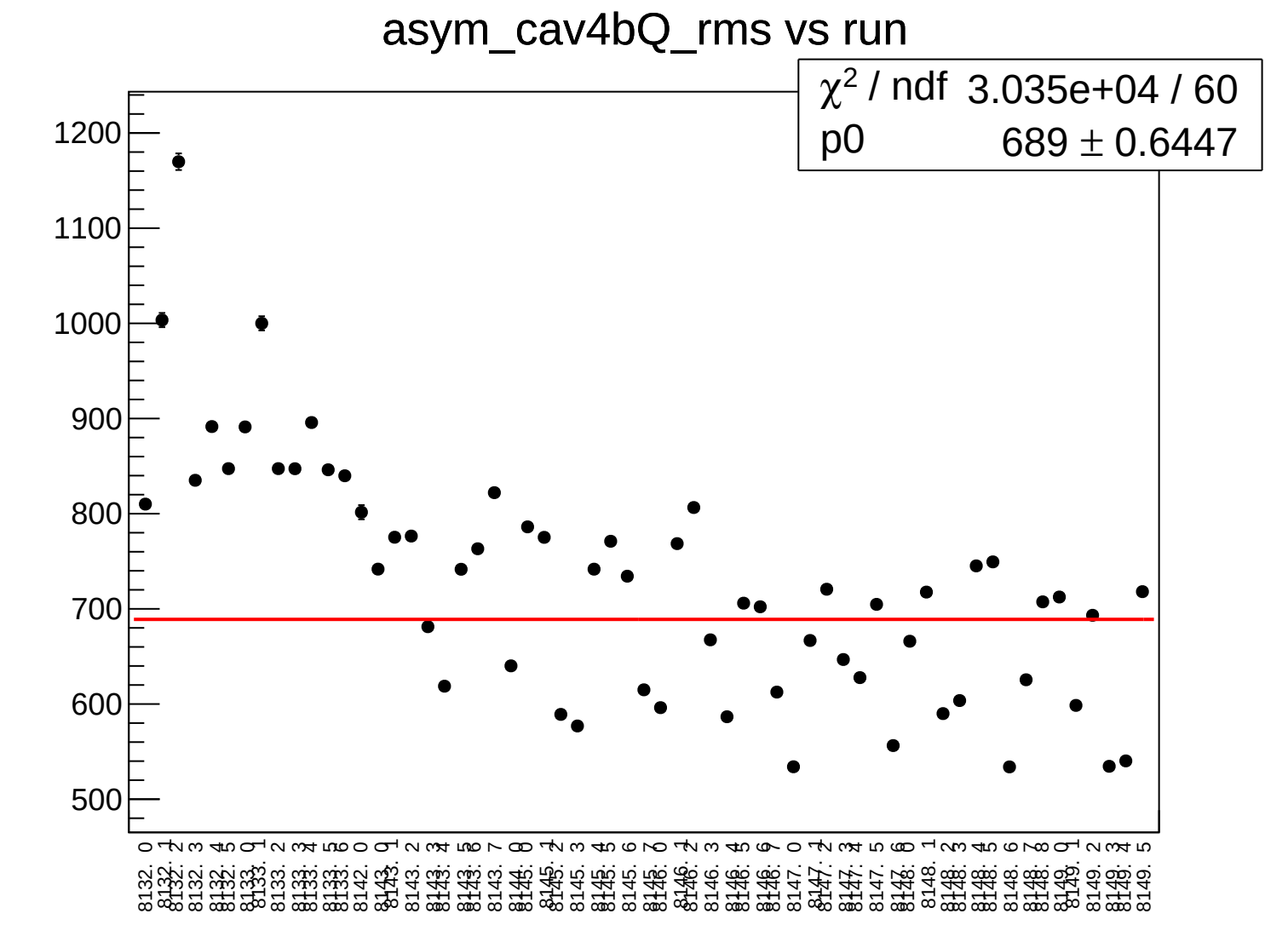

asym_bcm_dg_ds_mean vs run
χ² / ndf 23.24 / 60
p0 −52.44 ± 200.5
4000
2000
0
−2000
−4000
pull
Entries 61
Mean 261.7
Std Dev 226.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

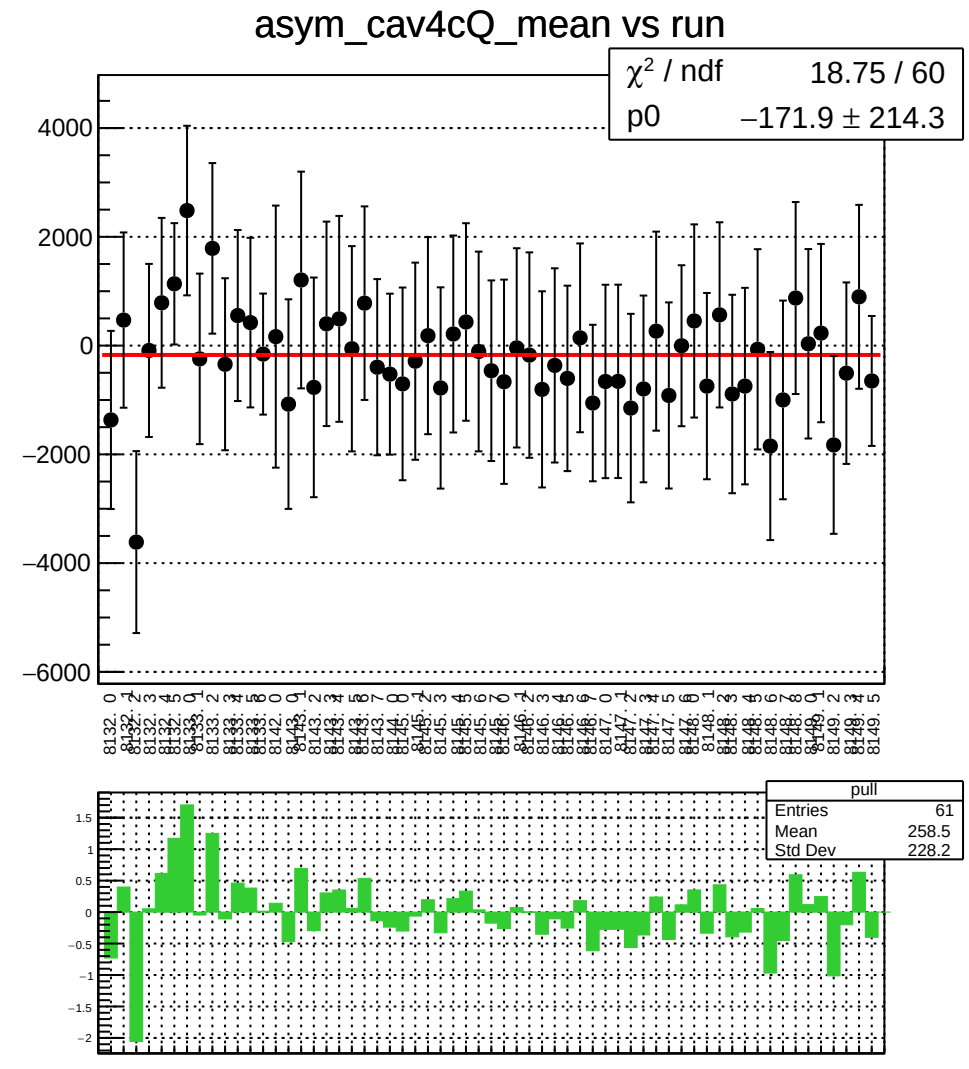

pull1D
Entries 61
Mean −0.008839
Std Dev 0.6172
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

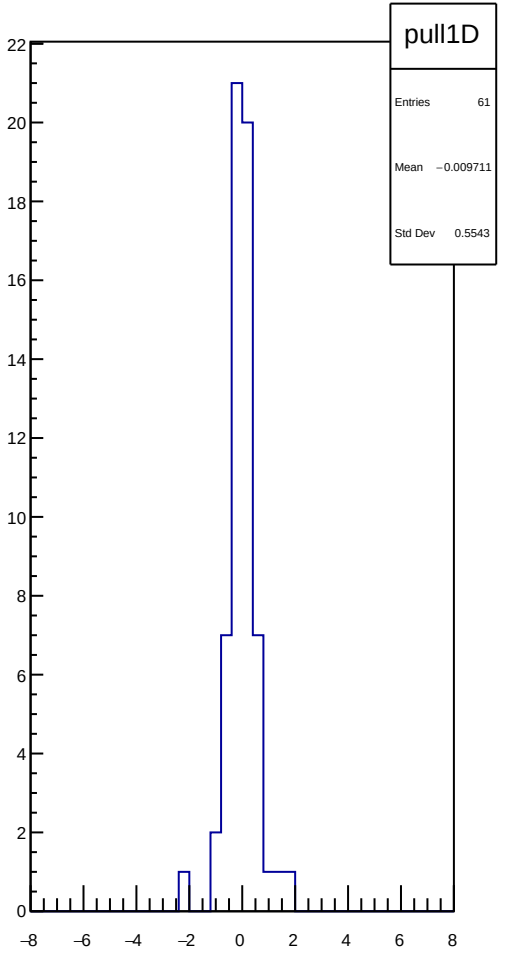

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 3121 / 60
p0 153.3 ± 0.1418
175
170
165
160
155
150
145
140

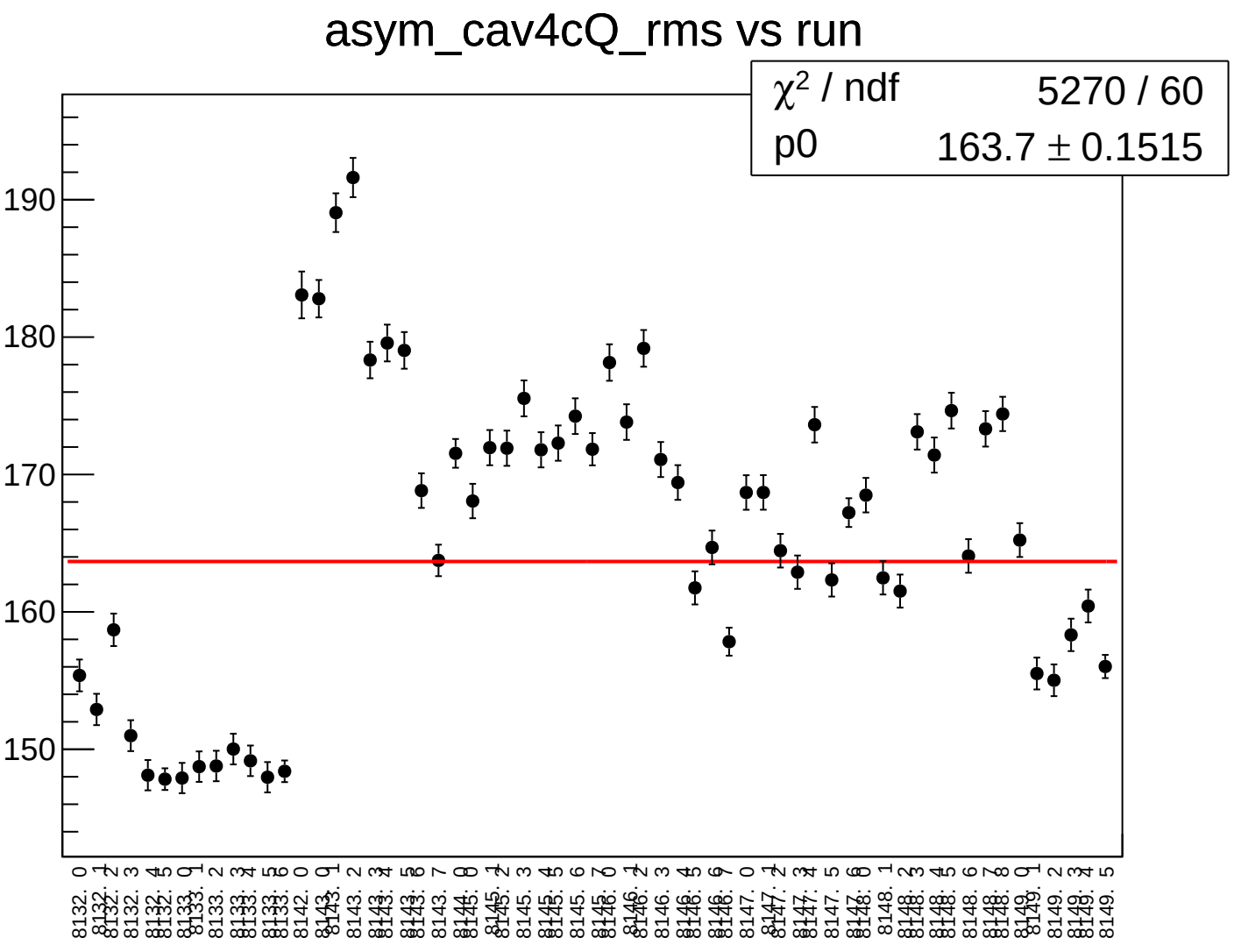

asym_cav4bQ_mean vs run
χ² / ndf 52.79 / 60
p0 −845.5 ± 911.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 61
Mean −1090
Std Dev 1114
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

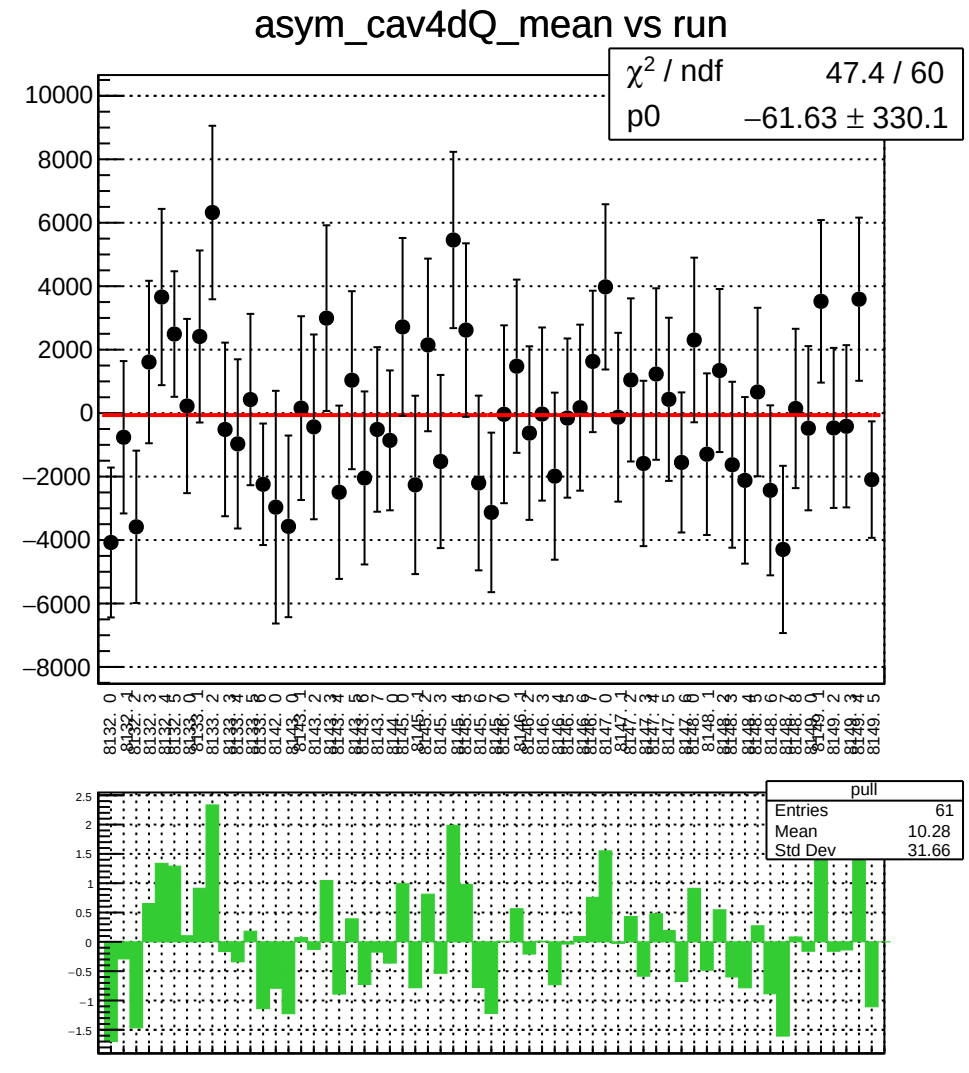

pull1D
Entries 61
Mean −0.0009337
Std Dev 0.9303
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

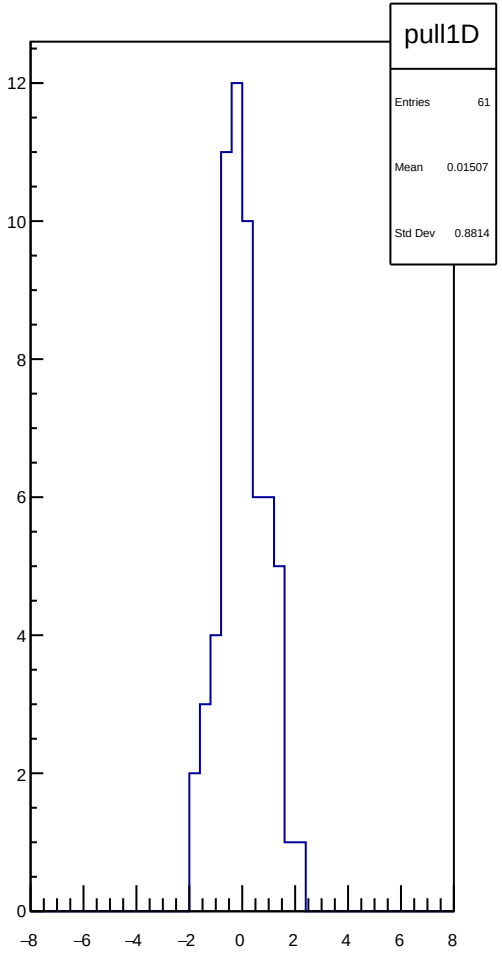

asym_cav4bQ_rms vs run
χ² / ndf 3.035e+04 / 60
p0 689 ± 0.6447
1200
1100
1000
900
800
700
600
500

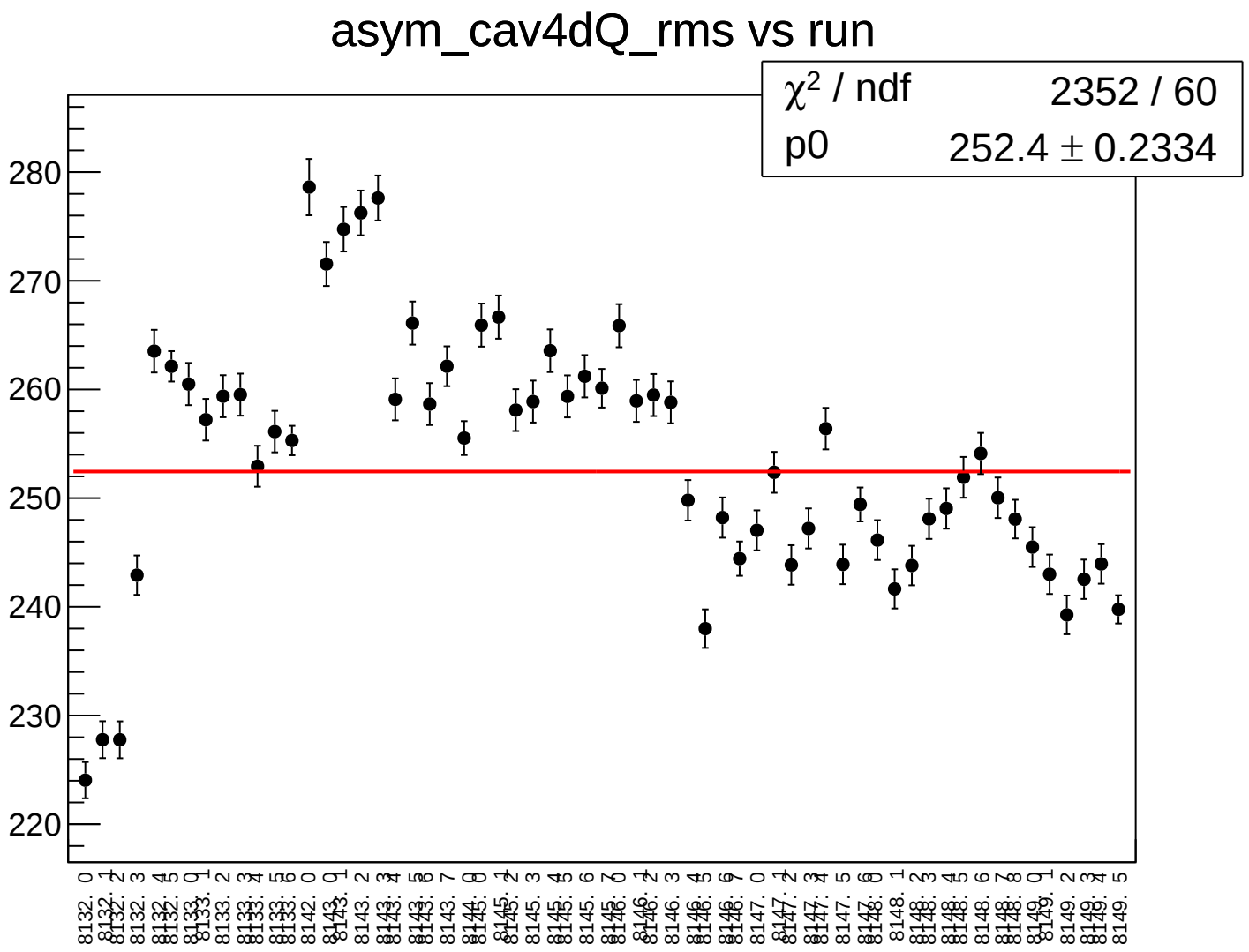

asym_cav4cQ_mean vs run
χ² / ndf 18.75 / 60
p0 −171.9 ± 214.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 61
Mean 258.5
Std Dev 228.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

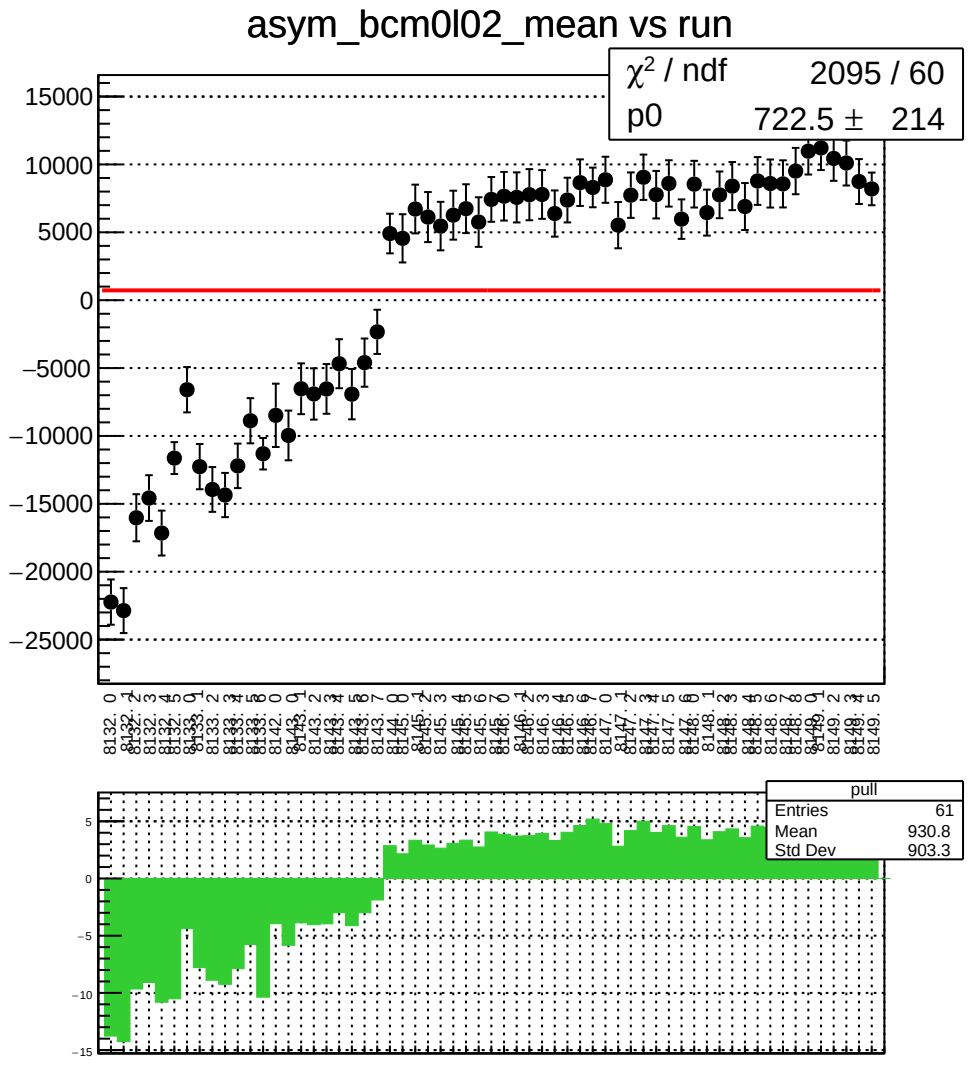

pull1D
Entries 61
Mean −0.009711
Std Dev 0.5543
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

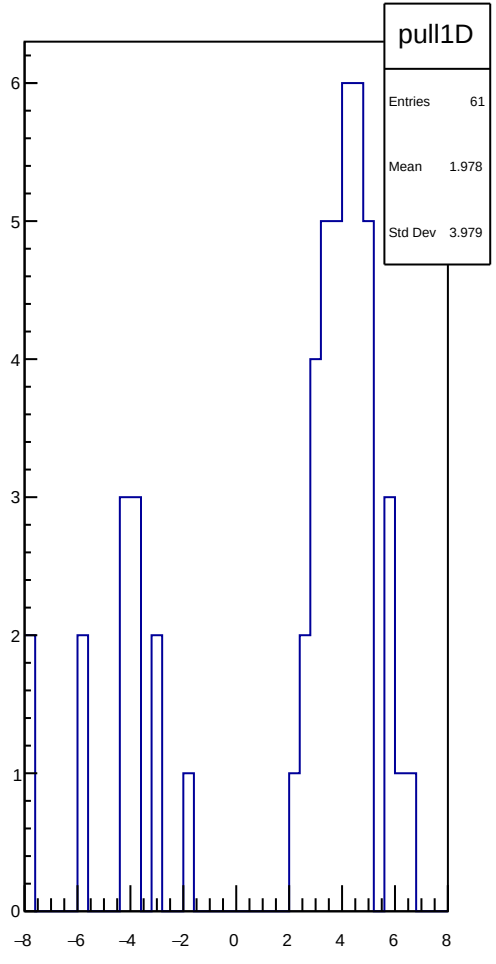

asym_cav4cQ_rms vs run
χ² / ndf 5270 / 60
p0 163.7 ± 0.1515
190
180
170
160
150

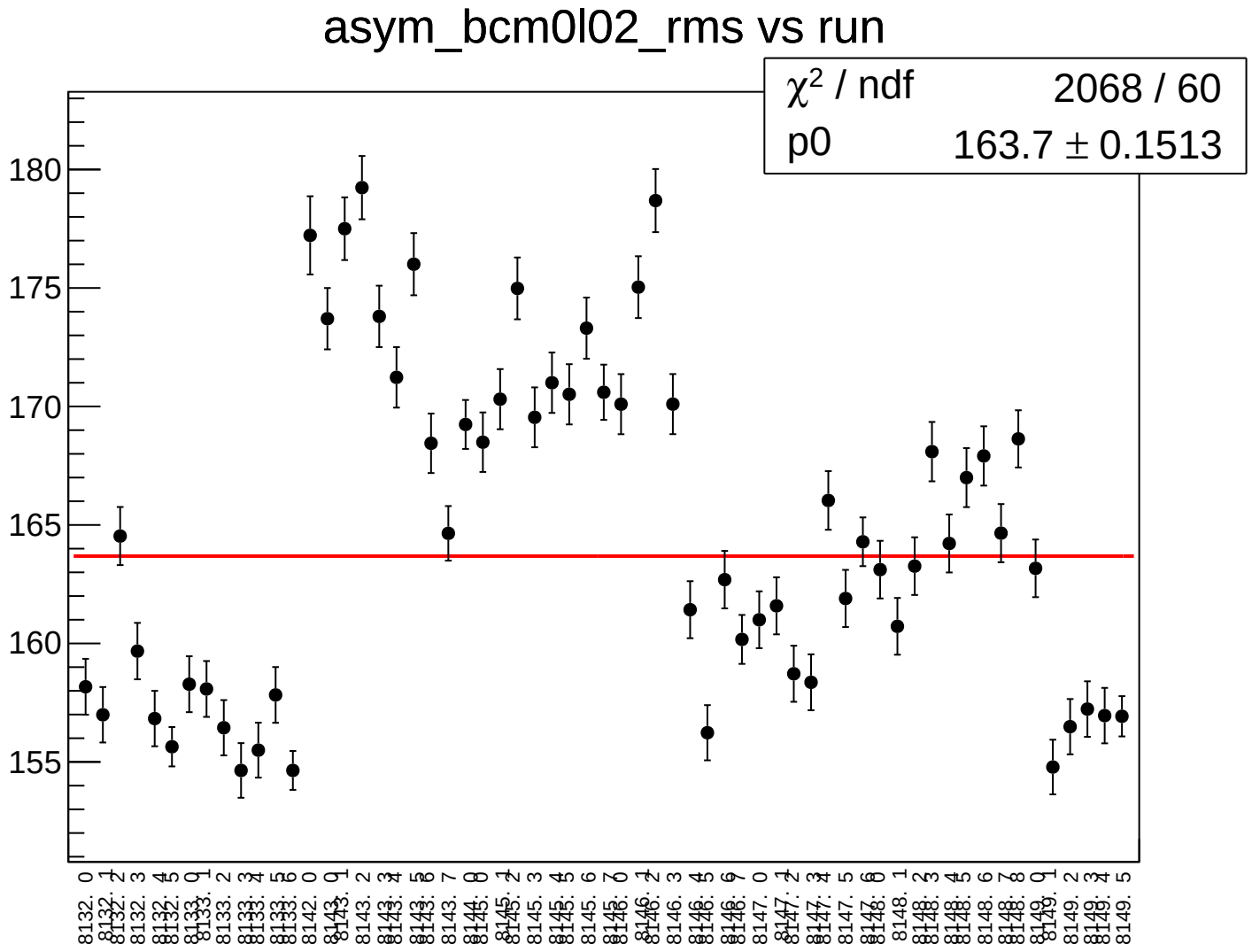

asym_cav4dQ_mean vs run
χ² / ndf 47.4 / 60
p0 −61.63 ± 330.1
pull
Entries 61
Mean 10.28
Std Dev 31.66

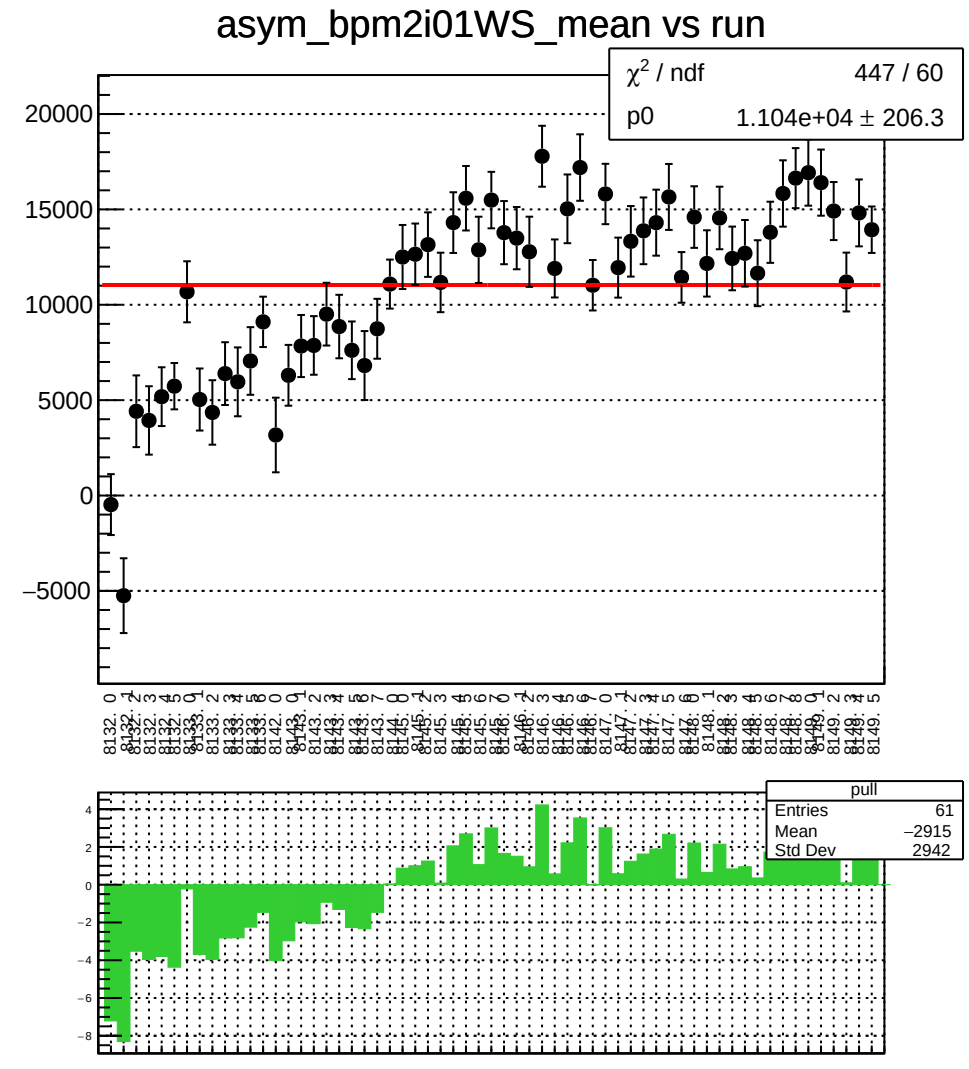

pull1D
Entries 61
Mean 0.01507
Std Dev 0.8814

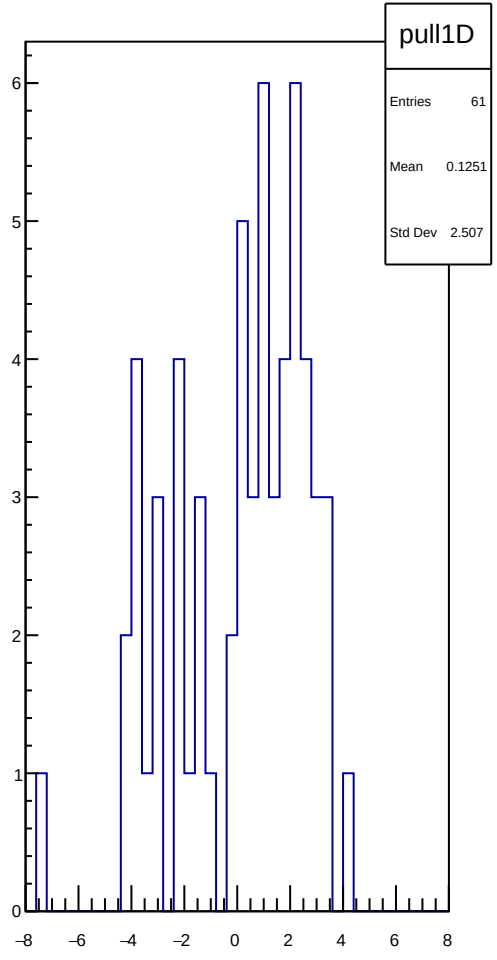

asym_cav4dQ_rms vs run
χ² / ndf 2352 / 60
p0 252.4 ± 0.2334
280
270
260
250
240
230
220

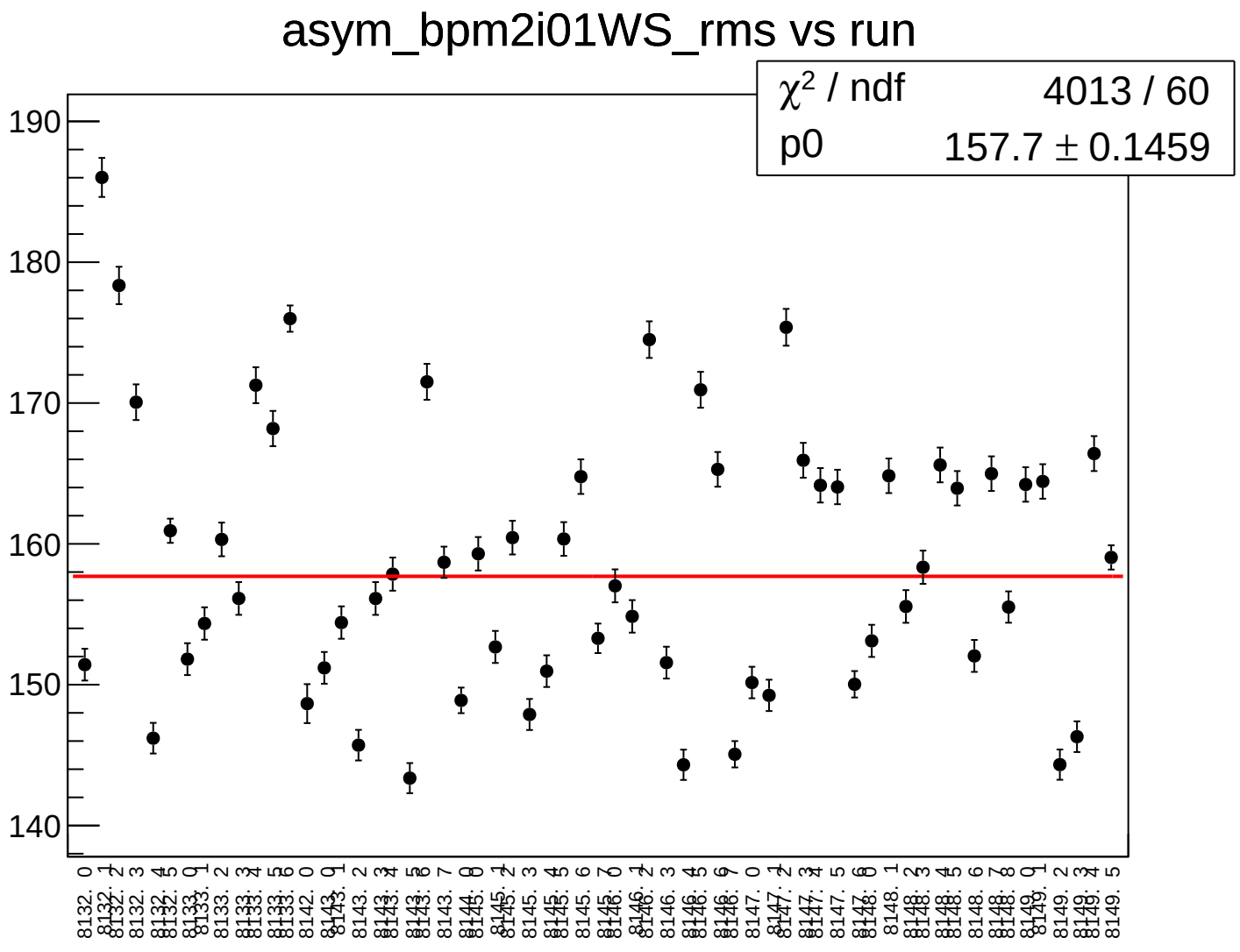

asym_bcm0l02_mean vs run
χ² / ndf 2095 / 60
p0 722.5 ± 214
pull
Entries 61
Mean 930.8
Std Dev 903.3

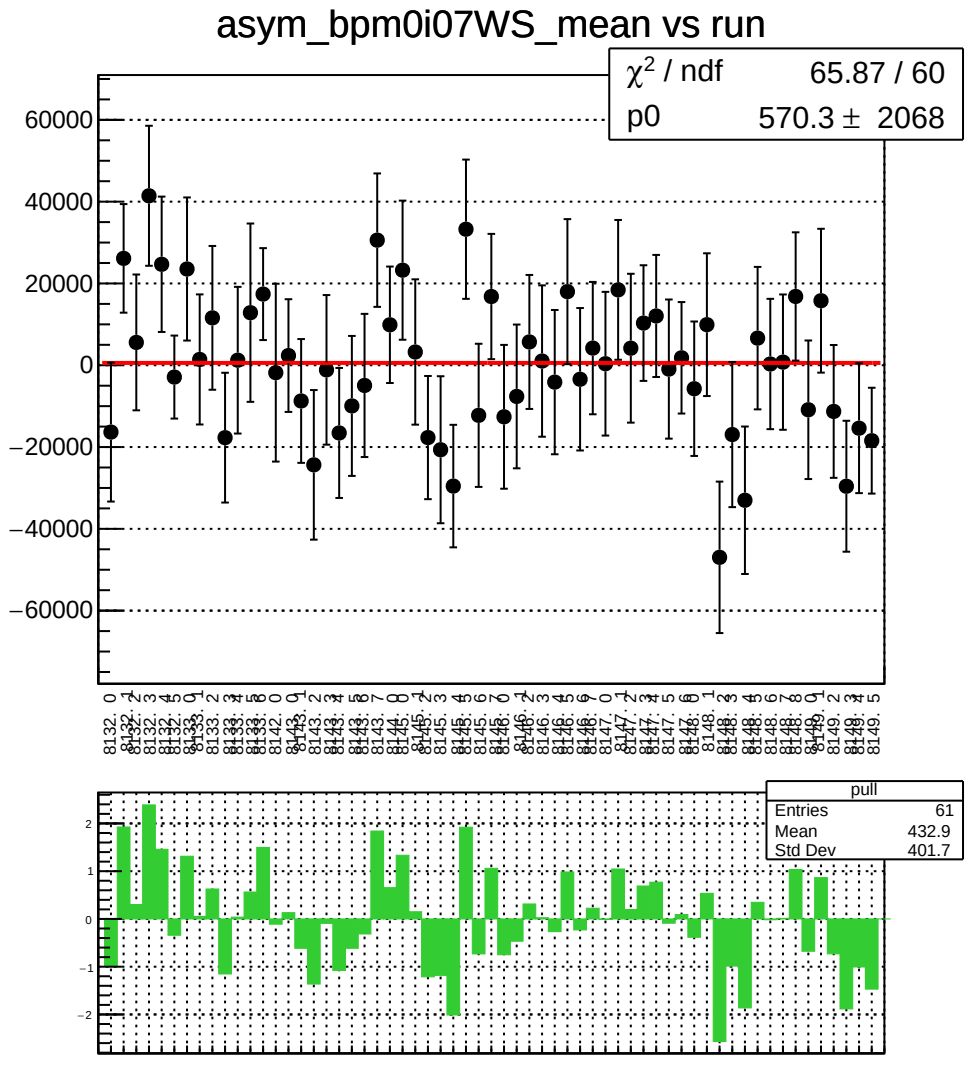

pull1D
Entries 61
Mean 1.978
Std Dev 3.979

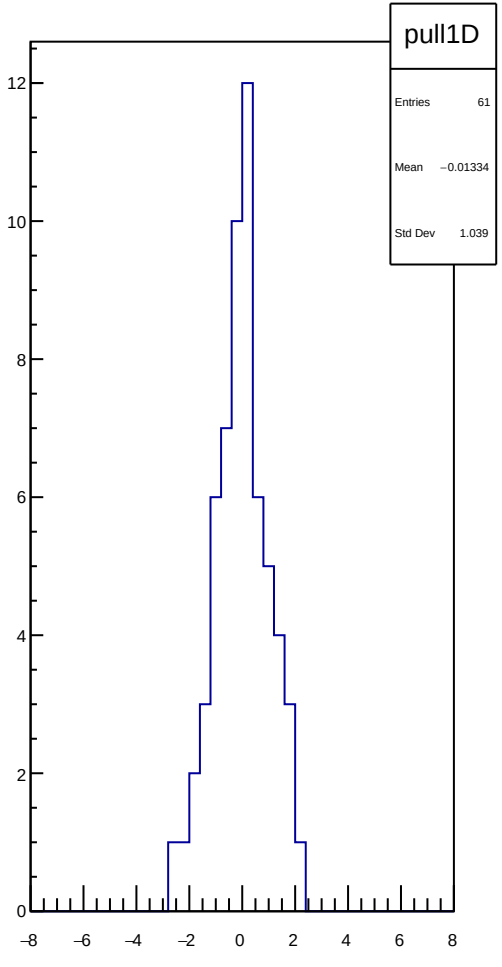

asym_bcm0l02_rms vs run
χ² / ndf 2068 / 60
p0 163.7 ± 0.1513
180
175
170
165
160
155

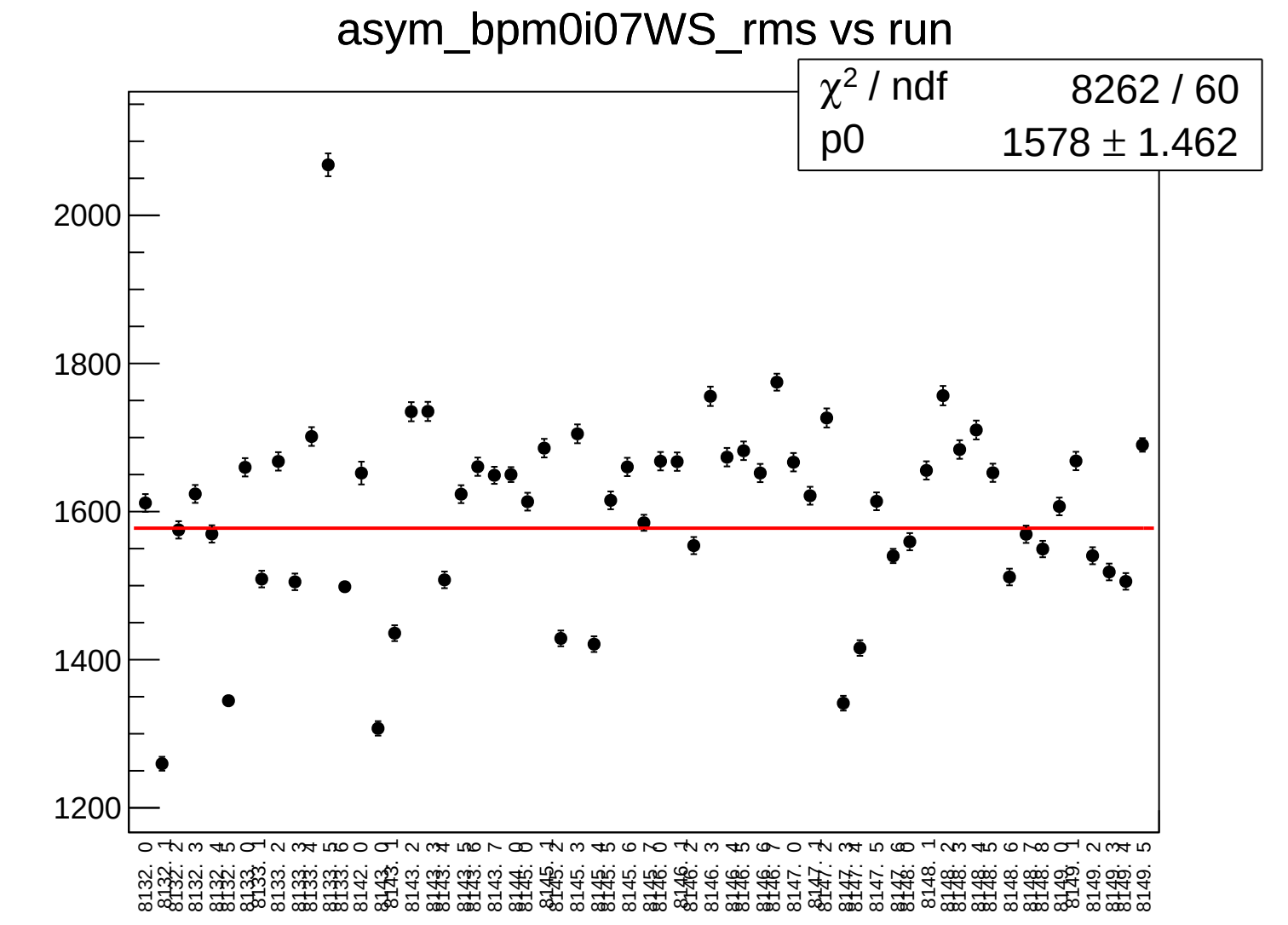

asym_bpm2i01WS_mean vs run
χ² / ndf 447 / 60
p0 1.104e+04 ± 206.3
pull
Entries 61
Mean −2915
Std Dev 2942

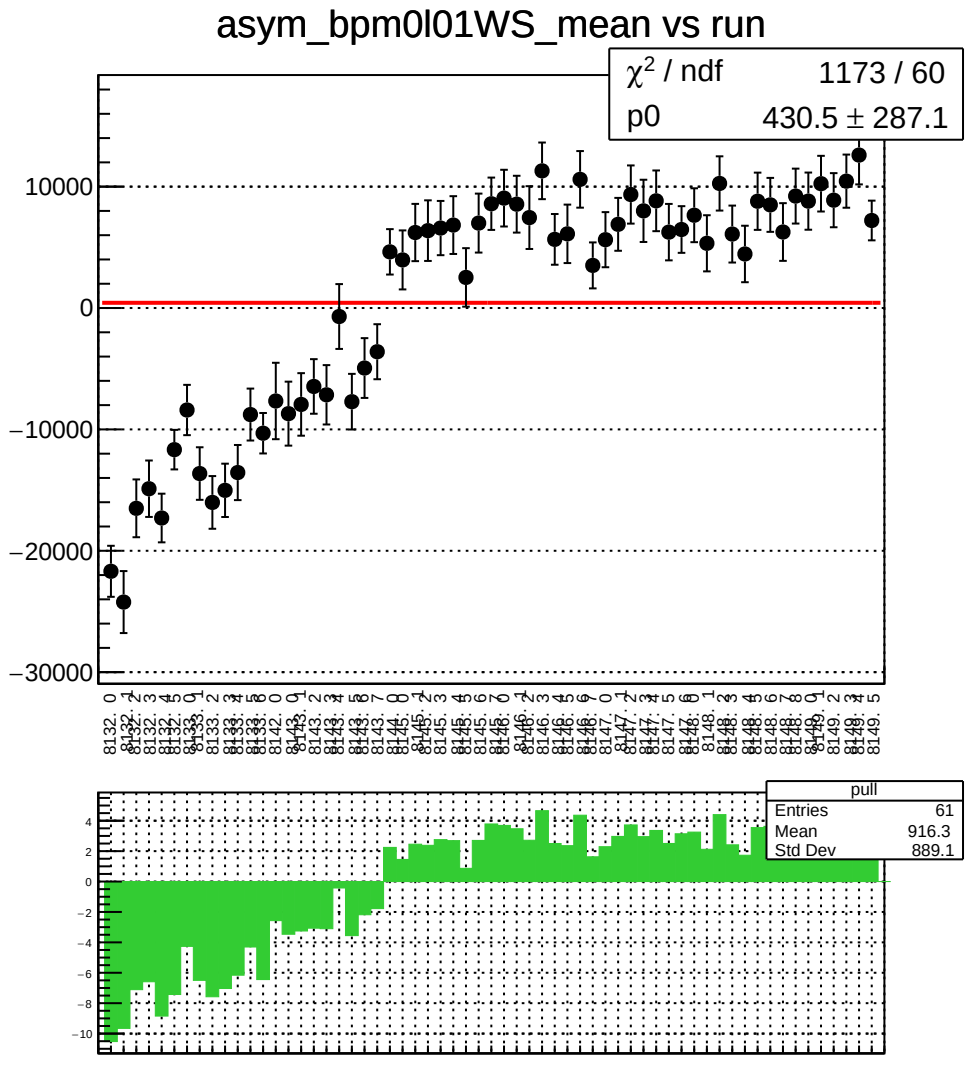

pull1D
Entries 61
Mean 0.1251
Std Dev 2.507

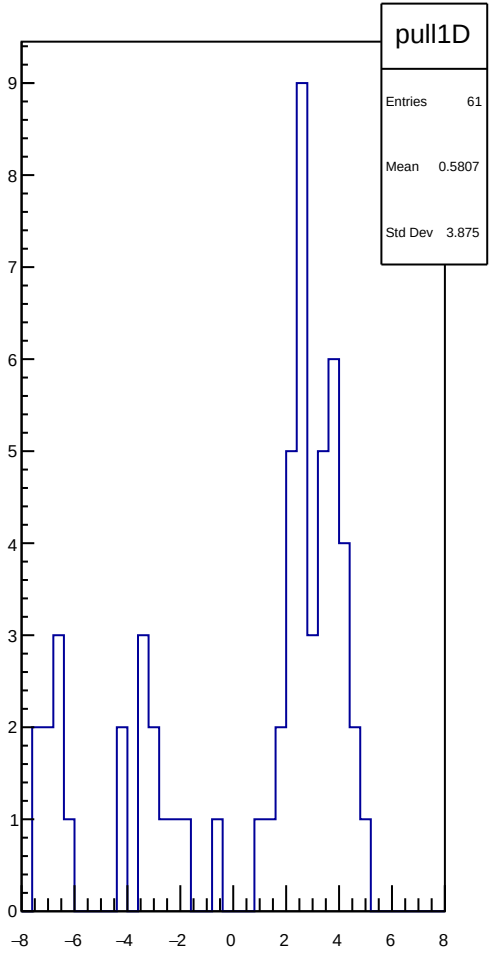

asym_bpm2i01WS_rms vs run
χ² / ndf 4013 / 60
p0 157.7 ± 0.1459
190
180
170
160
150
140

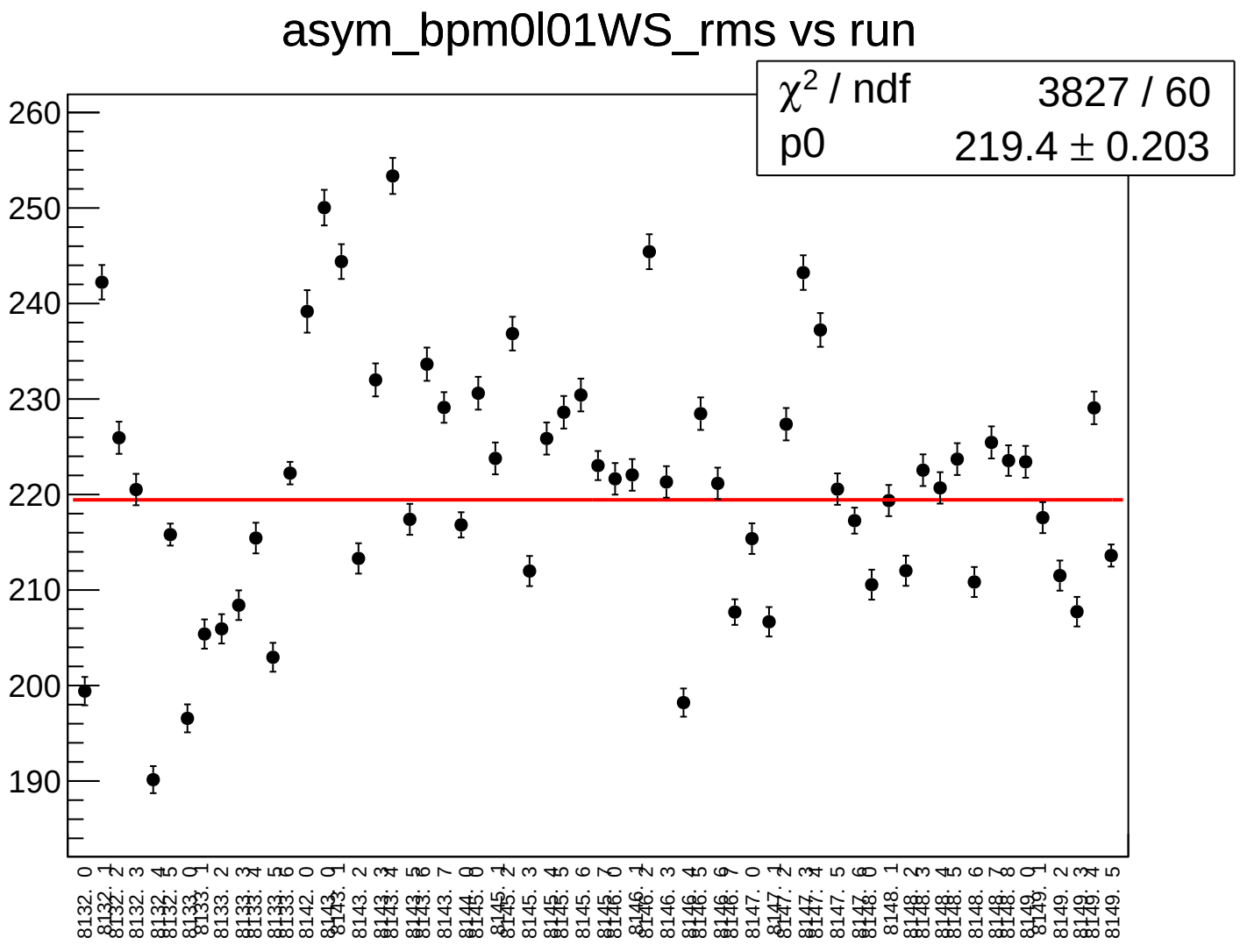

asym_bpm0i07WS_mean vs run
χ² / ndf 65.87 / 60
p0 570.3 ± 2068
pull
Entries 61
Mean 432.9
Std Dev 401.7

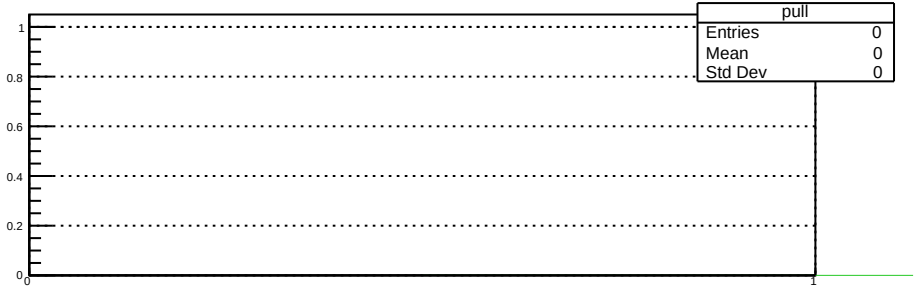

pull1D
Entries 61
Mean −0.01334
Std Dev 1.039

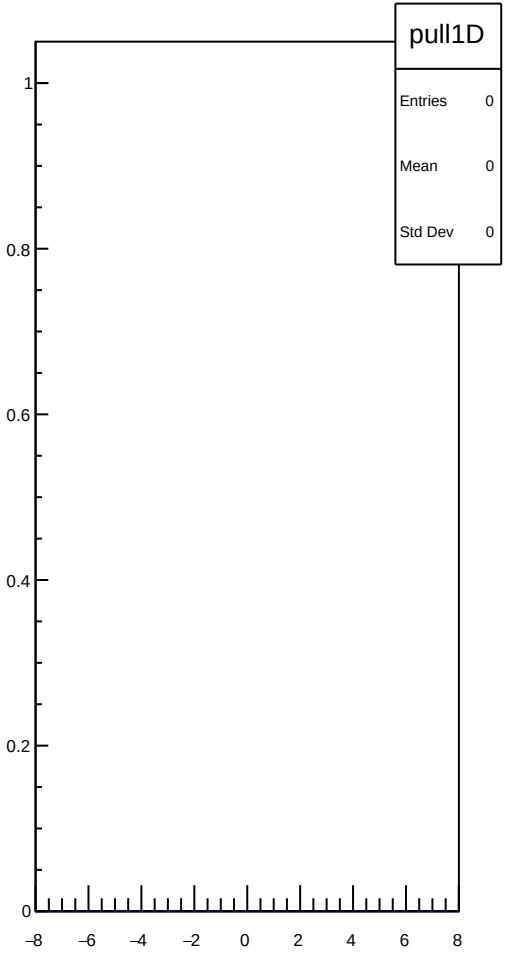

asym_bpm0i07WS_rms vs run
χ² / ndf 8262 / 60
p0 1578 ± 1.462
2000
1800
1600
1400
1200

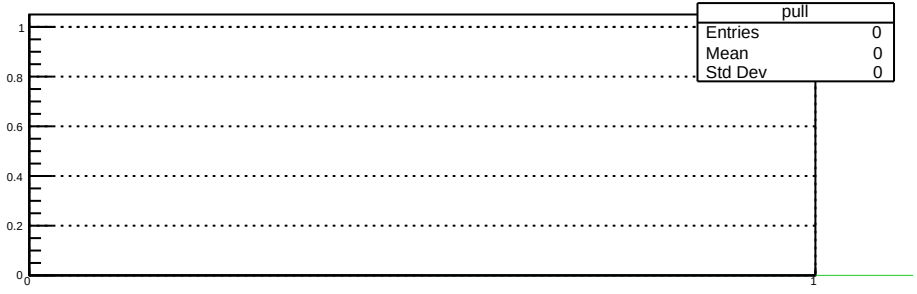

asym_bpm0l01WS_mean vs run
χ² / ndf 1173 / 60
p0 430.5 ± 287.1
10000
0
−10000
−20000
−30000
pull
Entries 61
Mean 916.3
Std Dev 889.1
4
2
0
−2
−4
−6
−8
−10

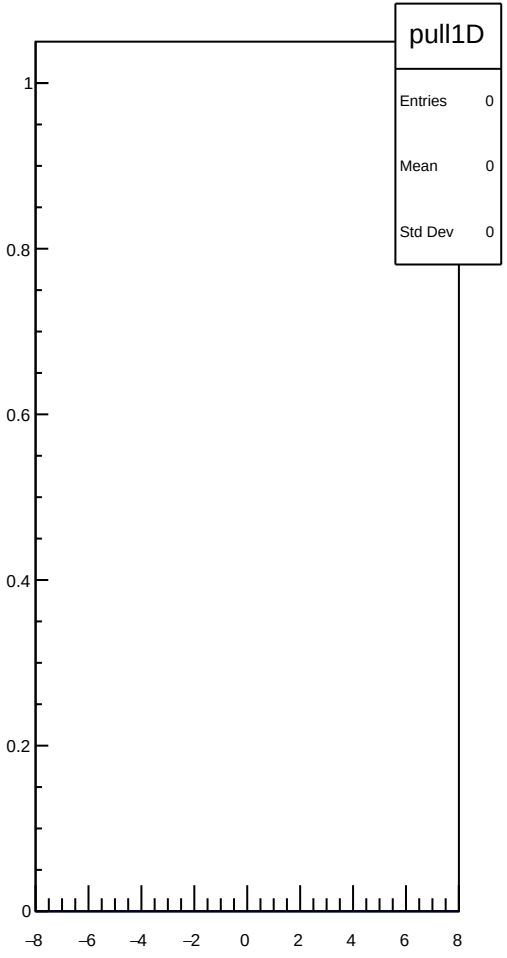

pull1D
Entries 61
Mean 0.5807
Std Dev 3.875
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

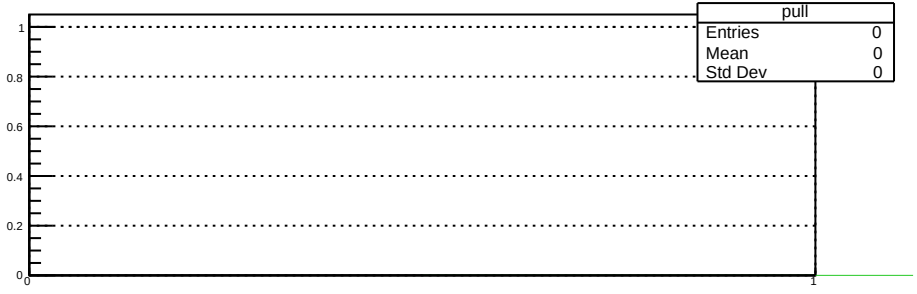

asym_bpm0l01WS_rms vs run
χ² / ndf 3827 / 60
p0 219.4 ± 0.203
260
250
240
230
220
210
200
190

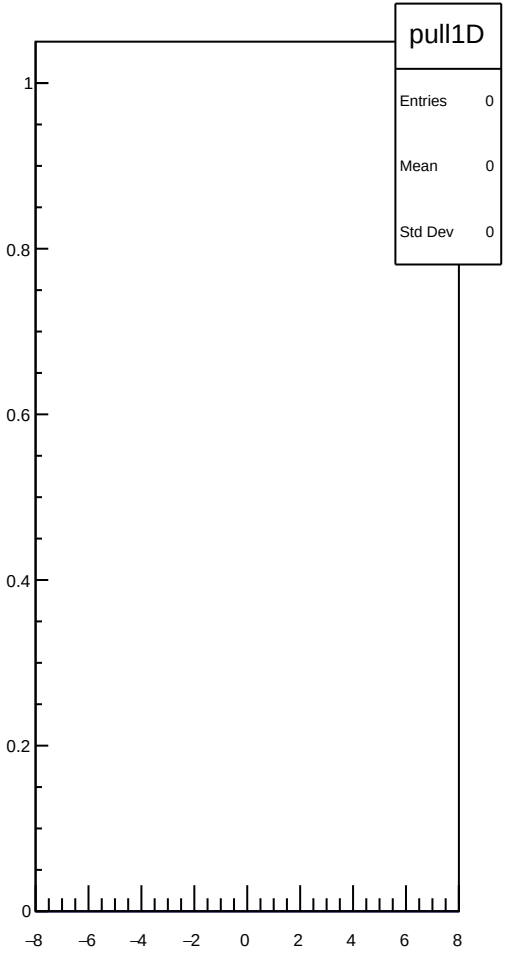

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

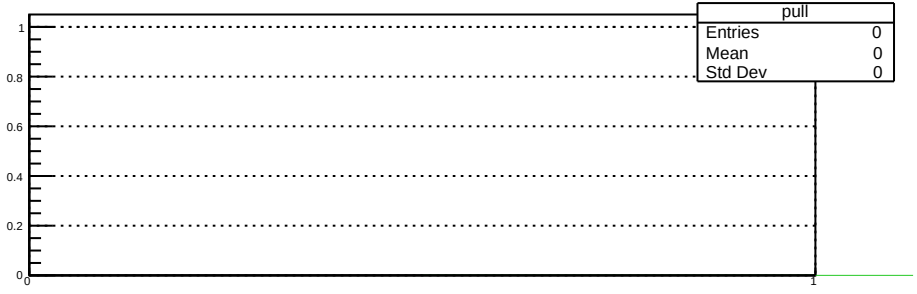

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

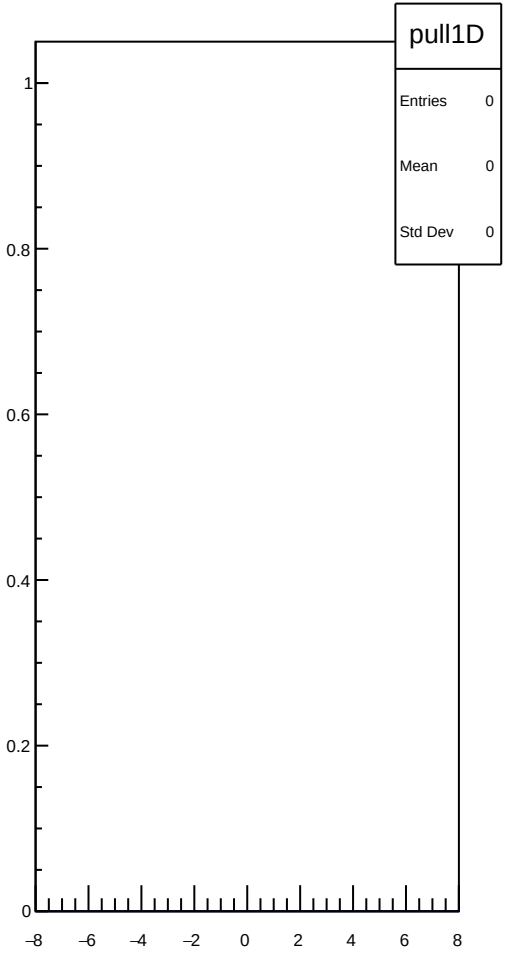

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

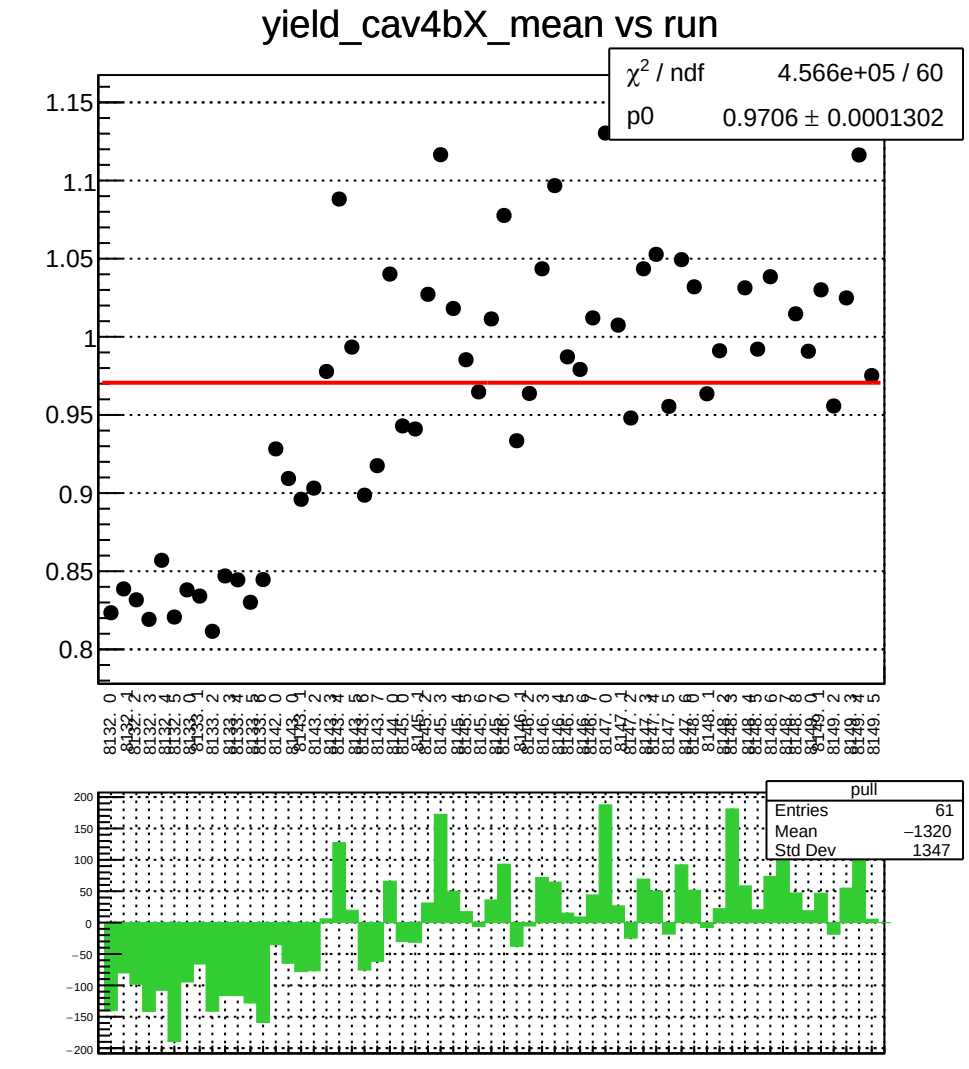

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

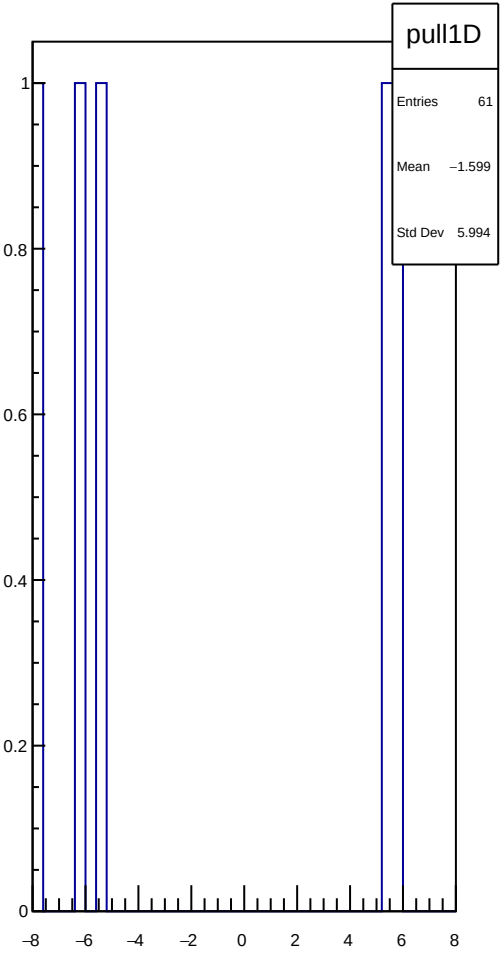

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

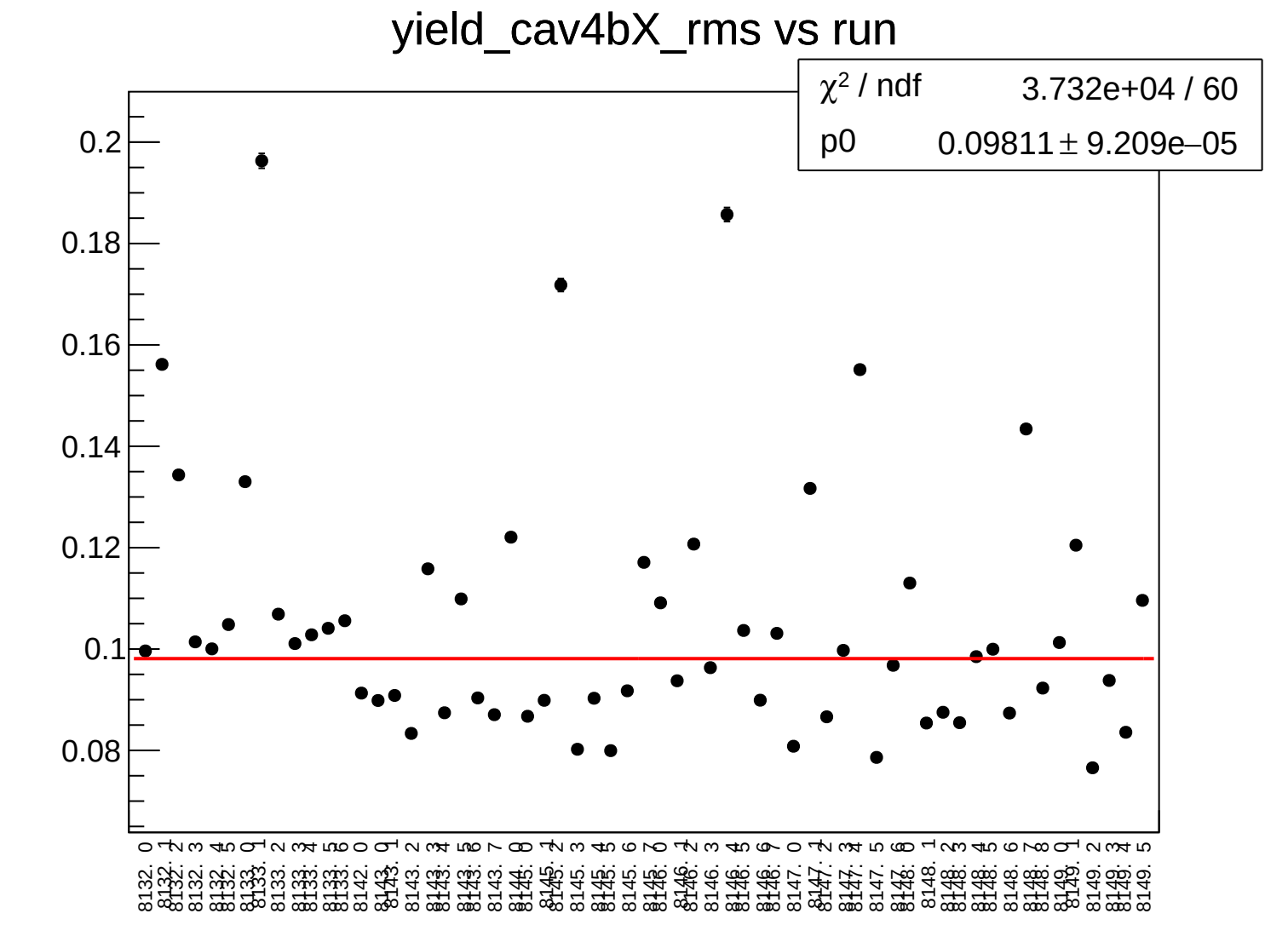

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

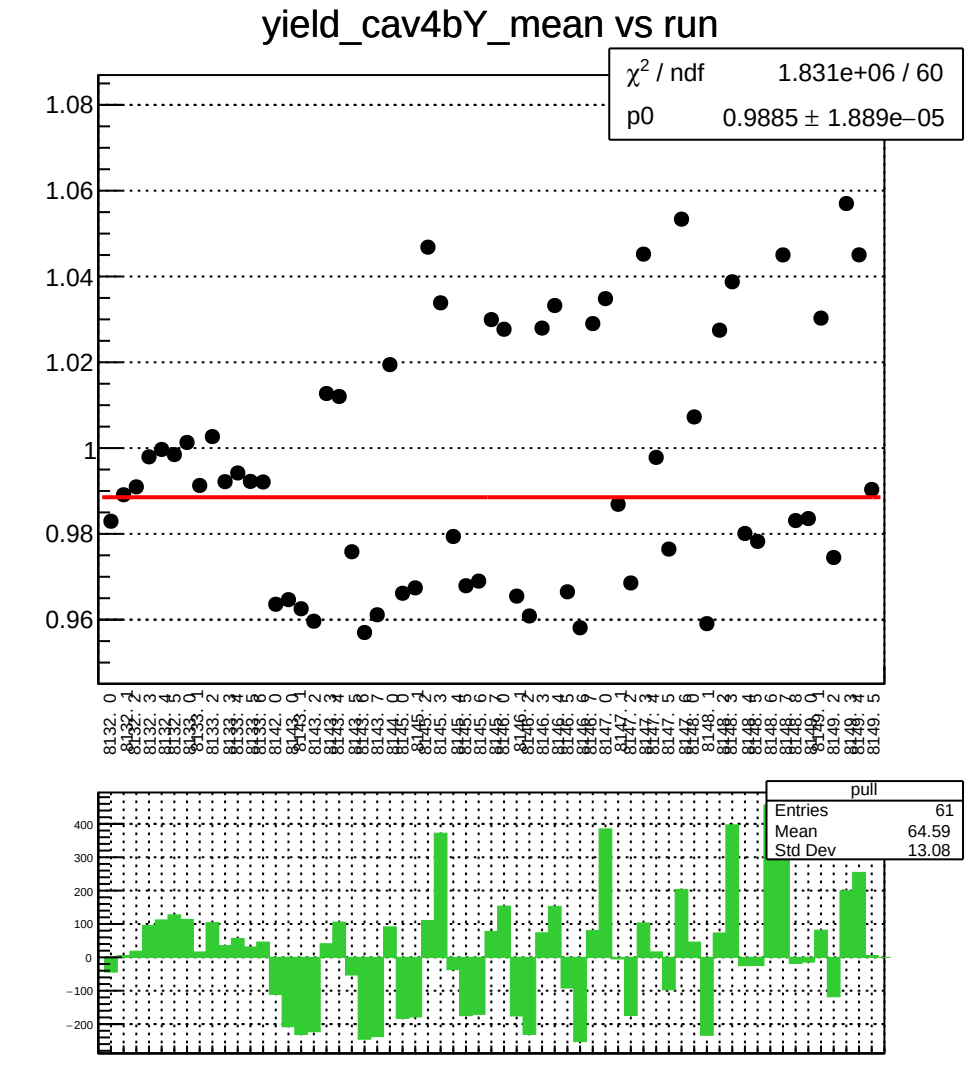

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

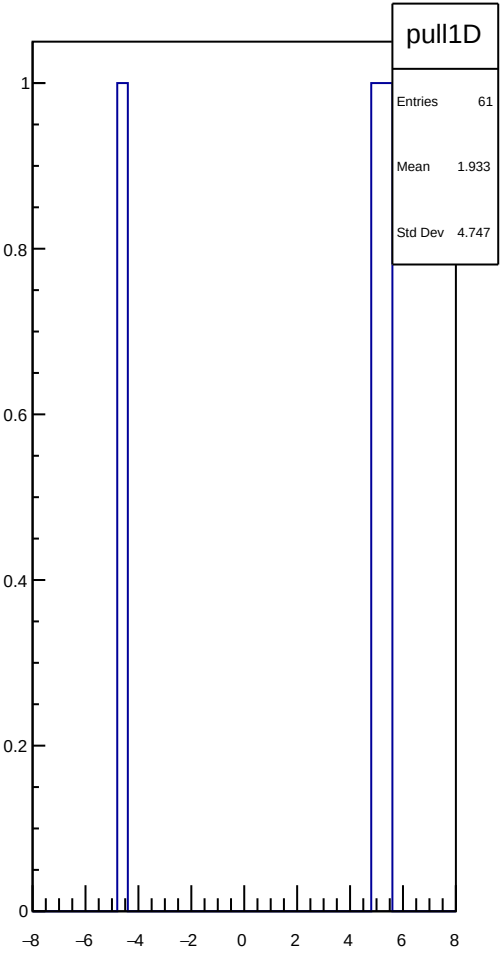

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

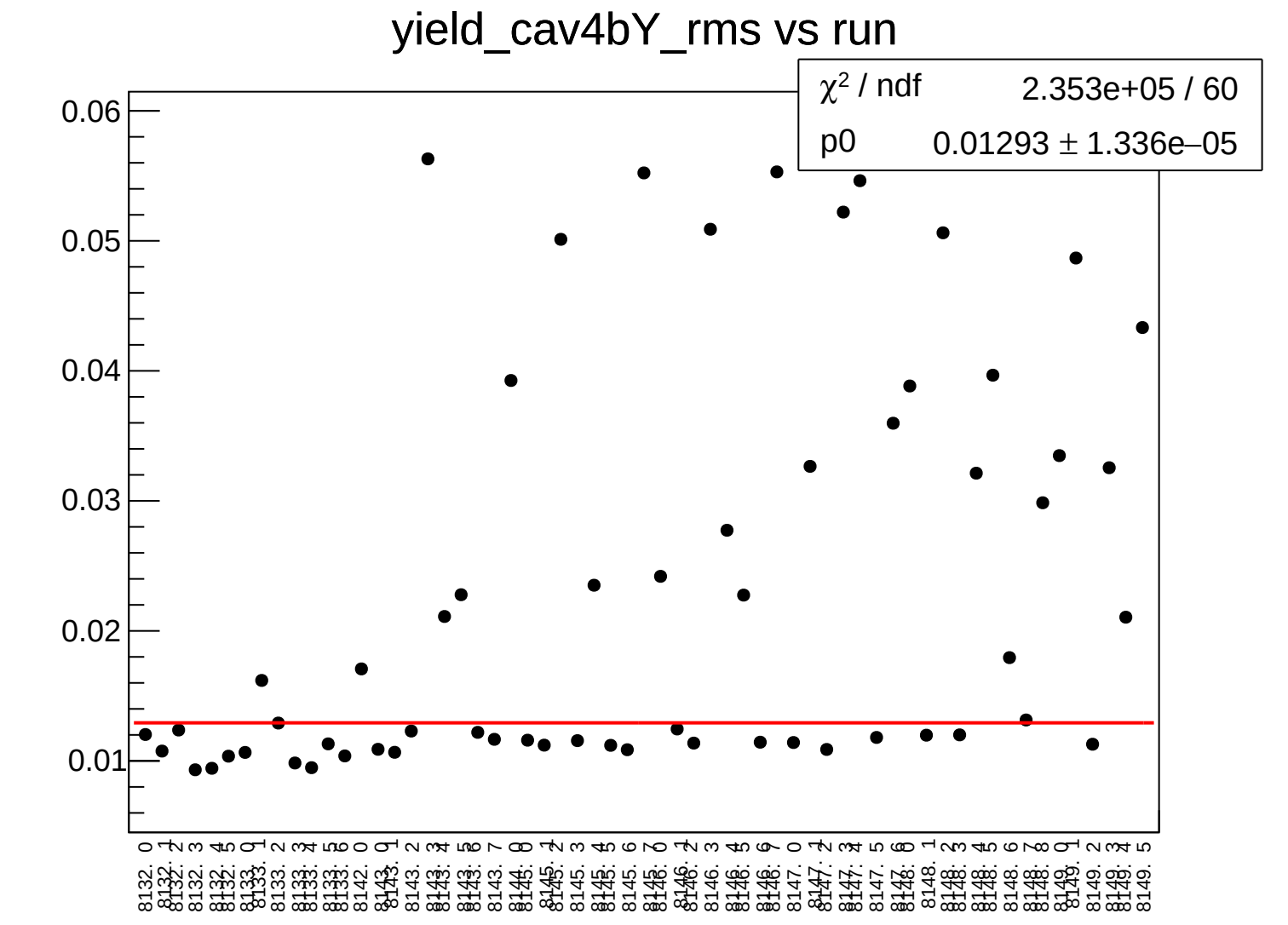

yield_cav4bX_mean vs run
χ² / ndf 4.566e+05 / 60
p0 0.9706 ± 0.0001302
pull
Entries 61
Mean −1320
Std Dev 1347

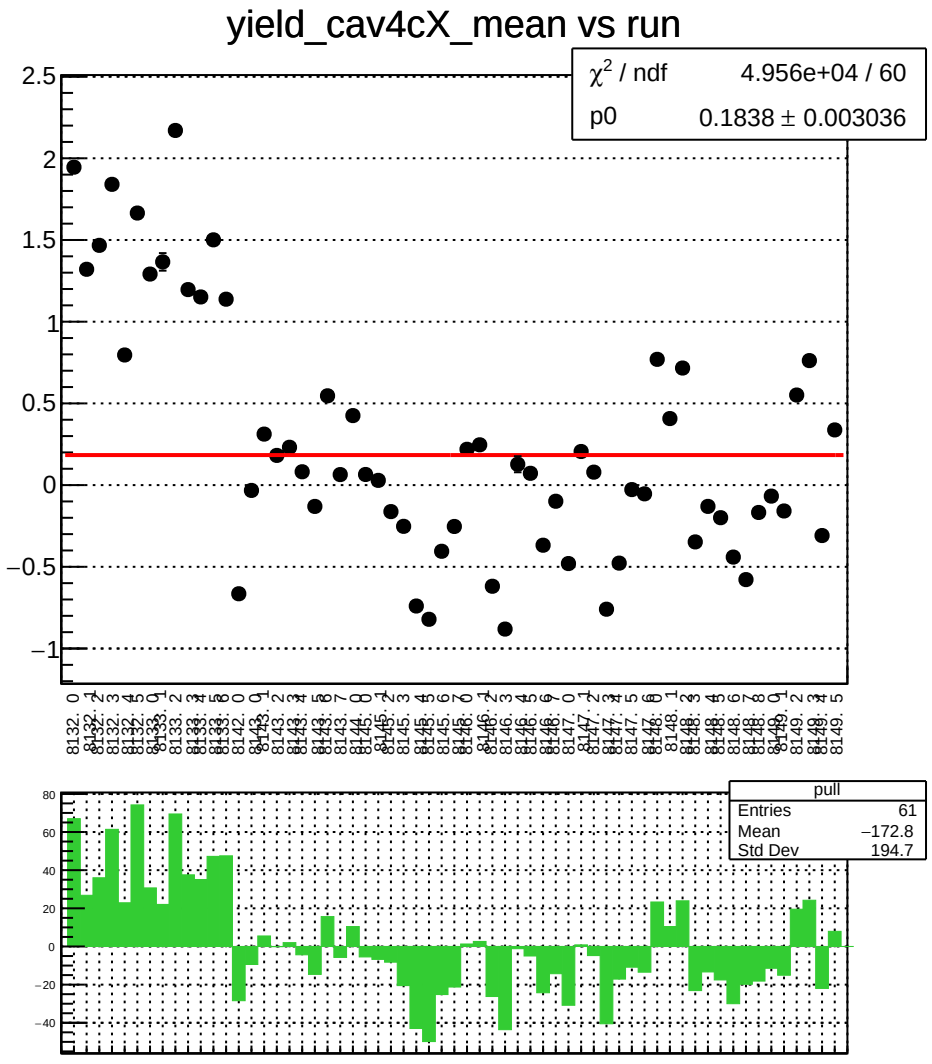

pull1D
Entries 61
Mean −1.599
Std Dev 5.994

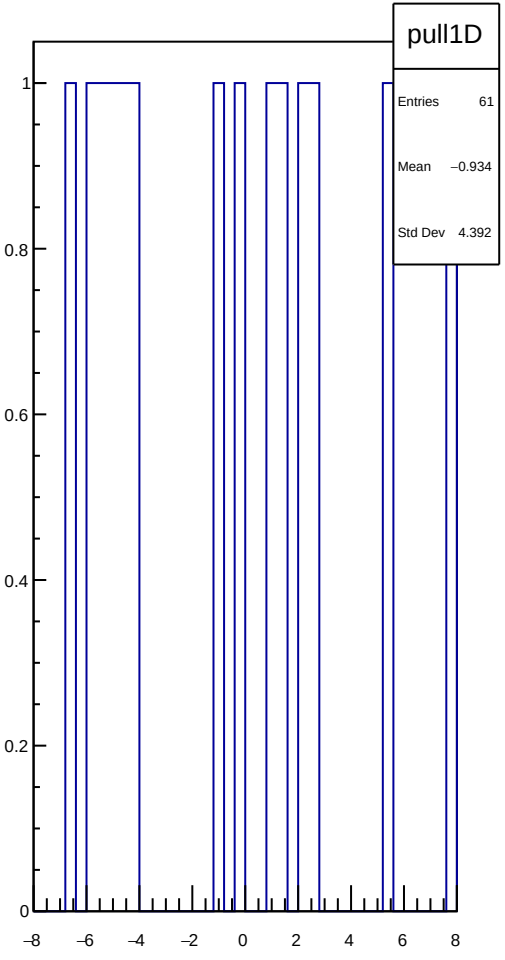

yield_cav4bX_rms vs run
χ² / ndf 3.732e+04 / 60
p0 0.09811 ± 9.209e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08

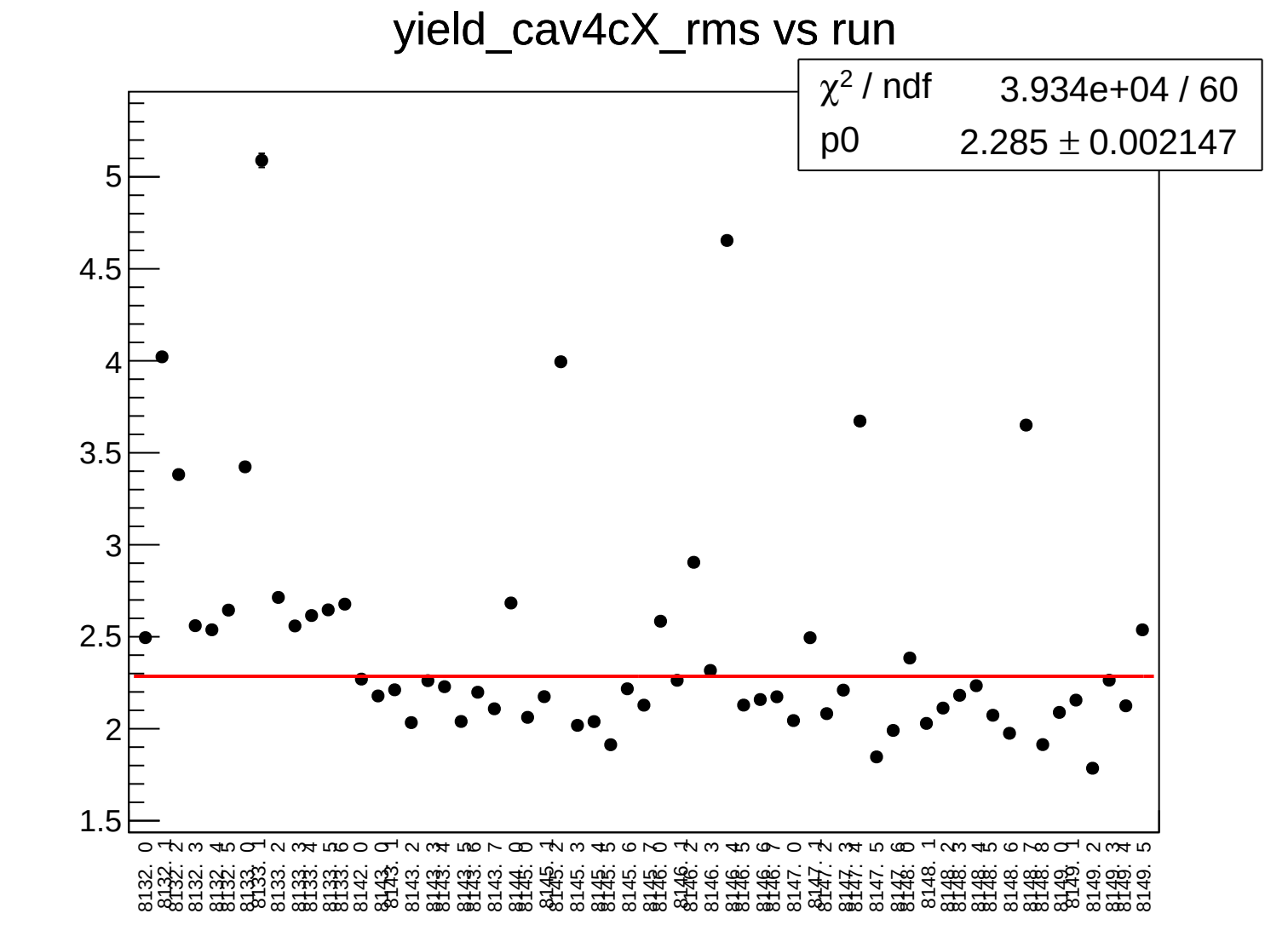

yield_cav4bY_mean vs run
χ² / ndf 1.831e+06 / 60
p0 0.9885 ± 1.889e−05
1.08
1.06
1.04
1.02
1
0.98
0.96
pull
Entries 61
Mean 64.59
Std Dev 13.08
400
300
200
100
0
−100
−200

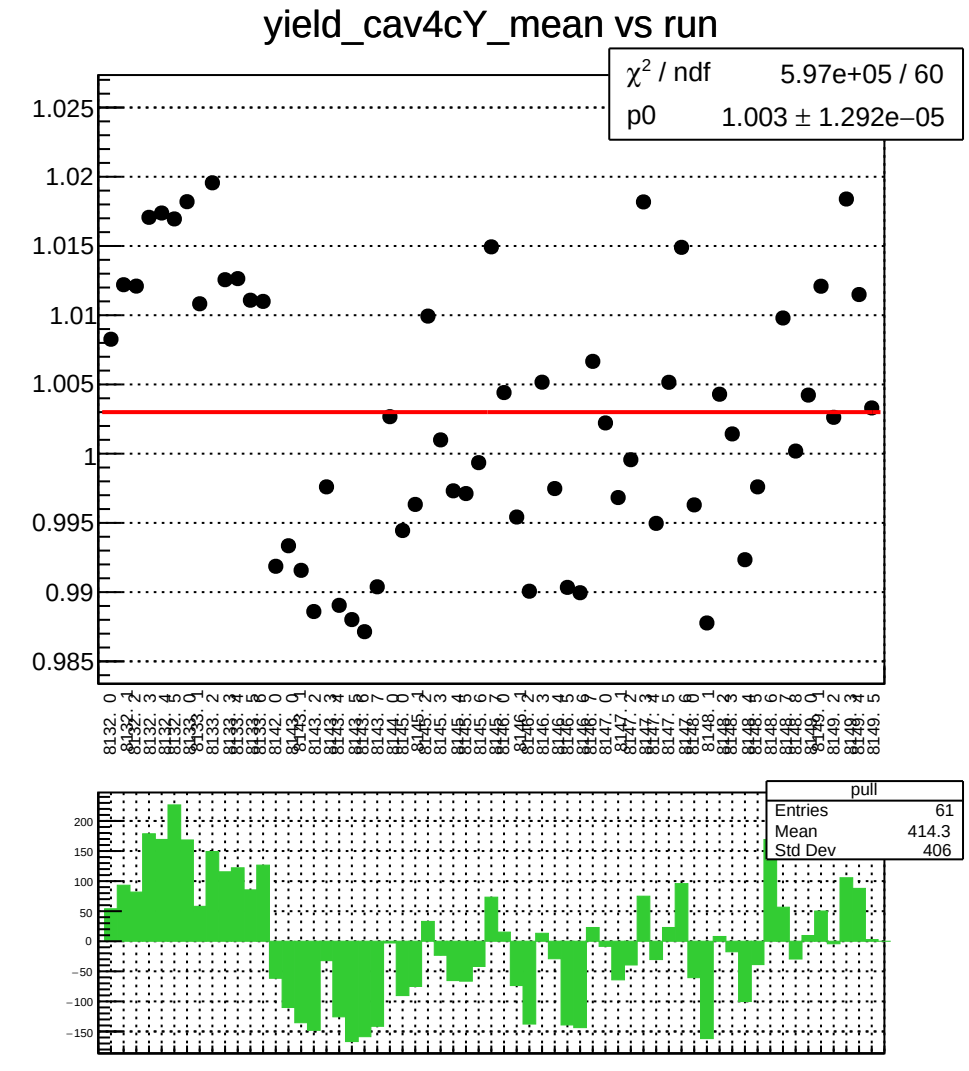

pull1D
Entries 61
Mean 1.933
Std Dev 4.747
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

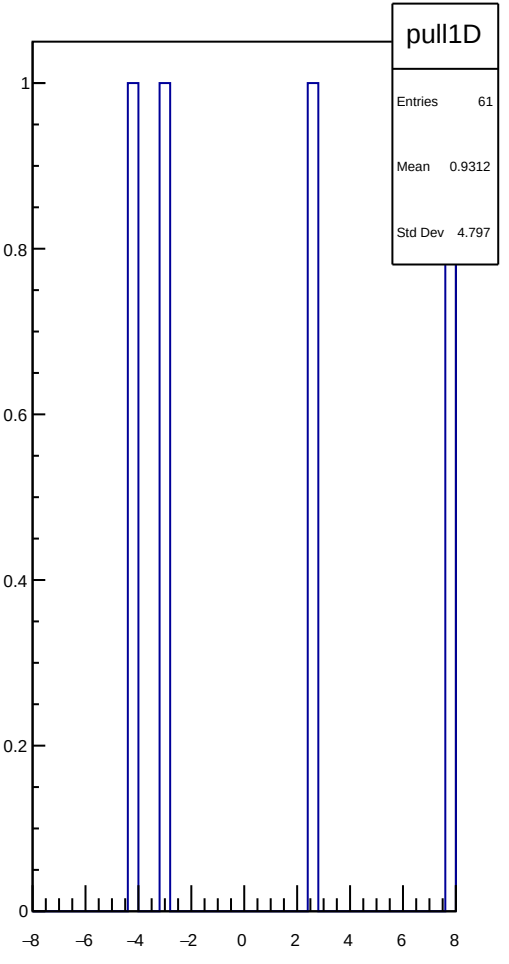

yield_cav4bY_rms vs run
χ² / ndf 2.353e+05 / 60
p0 0.01293 ± 1.336e−05
0.06
0.05
0.04
0.03
0.02
0.01

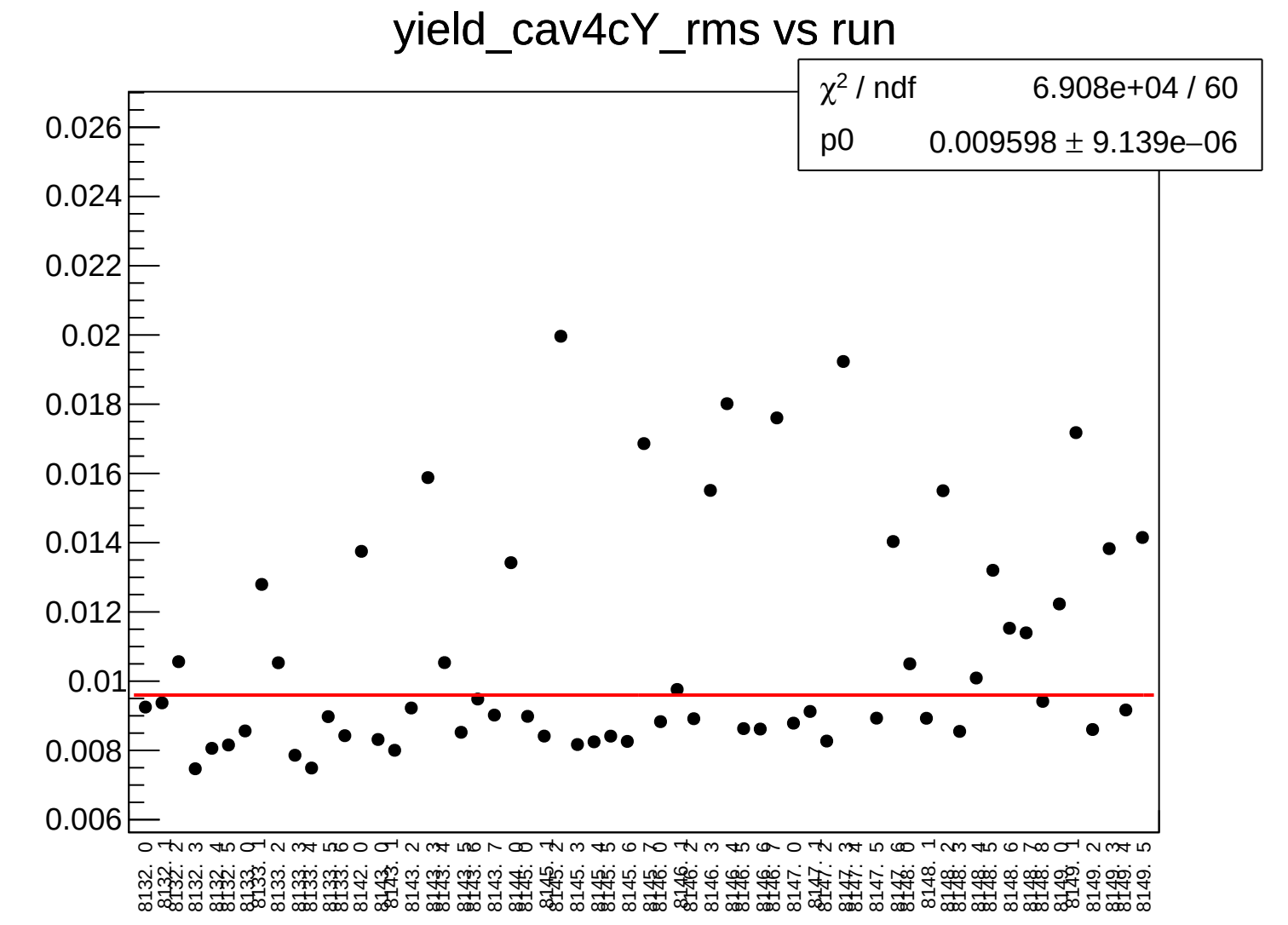

yield_cav4cX_mean vs run
χ² / ndf 4.956e+04 / 60
p0 0.1838 ± 0.003036
pull
Entries 61
Mean −172.8
Std Dev 194.7

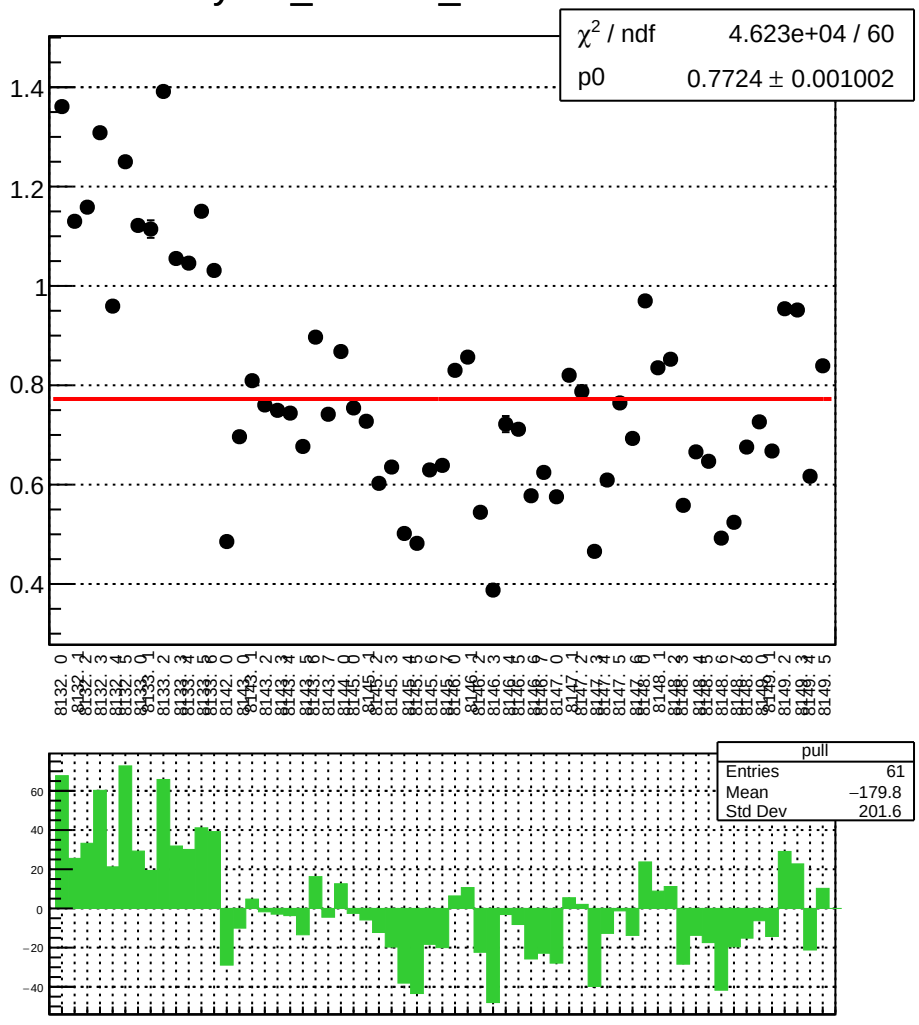

pull1D
Entries 61
Mean −0.934
Std Dev 4.392

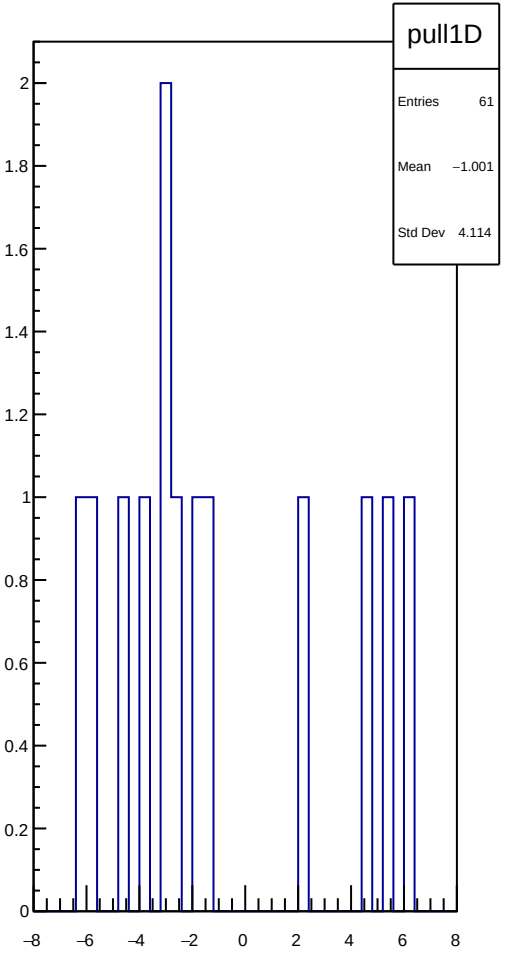

yield_cav4cX_rms vs run
χ^2 / ndf 3.934e+04 / 60
p0 2.285 ± 0.002147
5
4.5
4
3.5
3
2.5
2
1.5

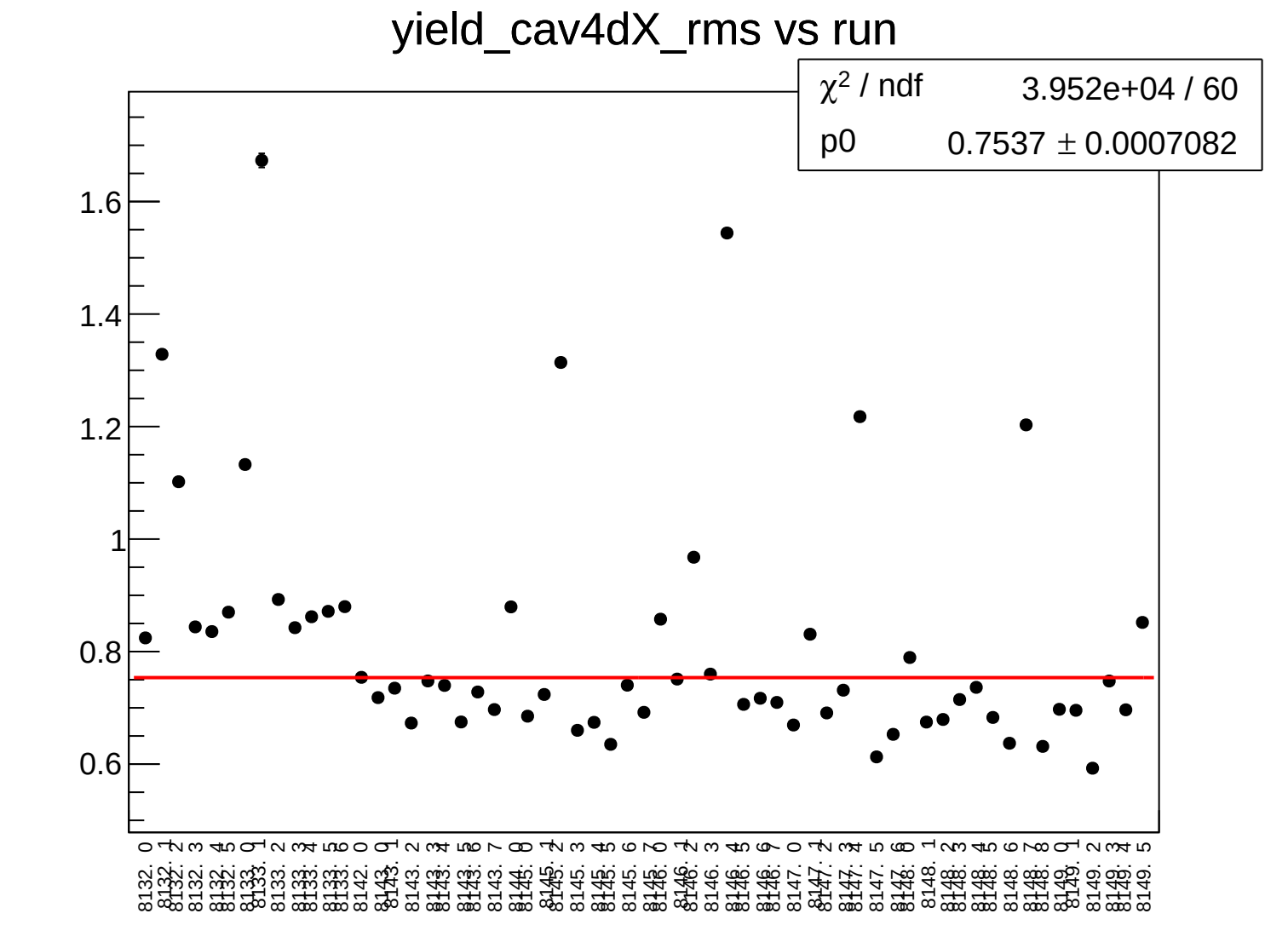

yield_cav4cY_mean vs run
χ² / ndf 5.97e+05 / 60
p0 1.003 ± 1.292e−05
1.025
1.02
1.015
1.01
1.005
1
0.995
0.99
0.985
pull
Entries 61
Mean 414.3
Std Dev 406
200
150
100
50
0
−50
−100
−150

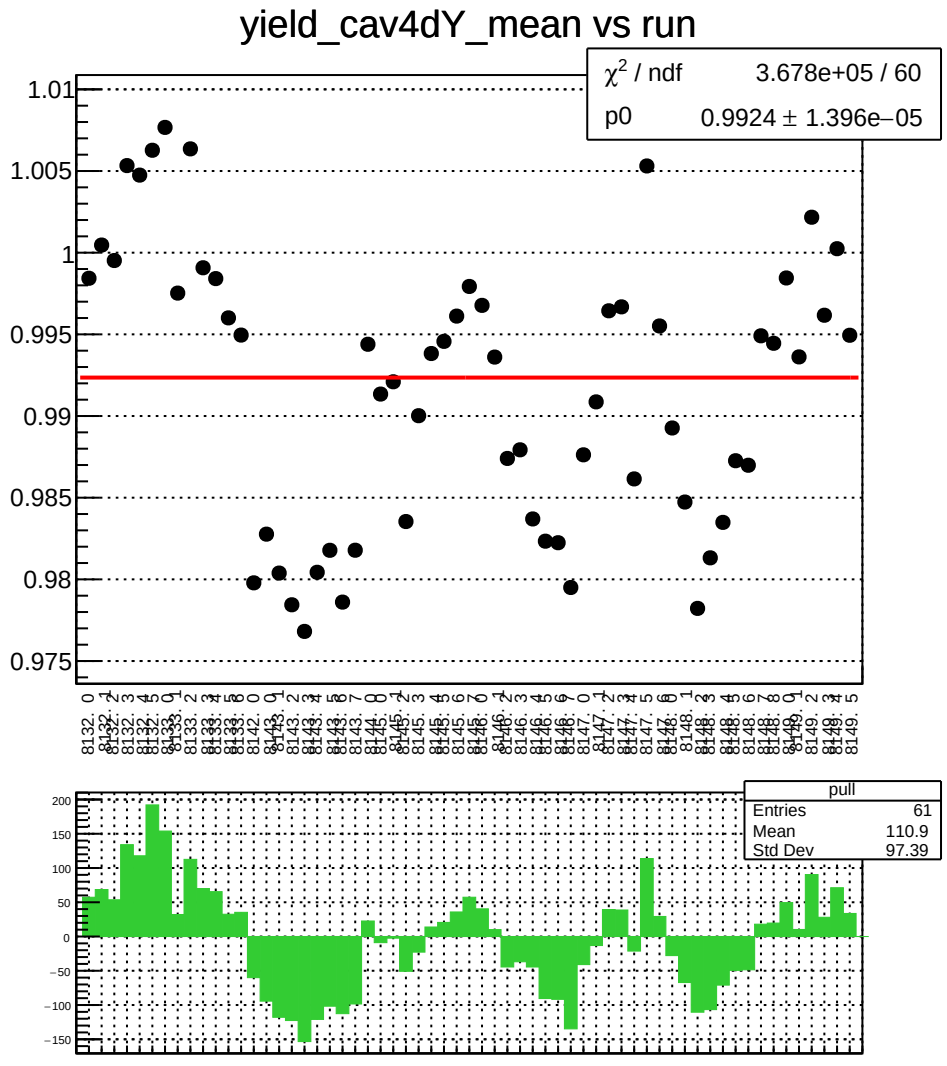

pull1D
Entries 61
Mean 0.9312
Std Dev 4.797
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

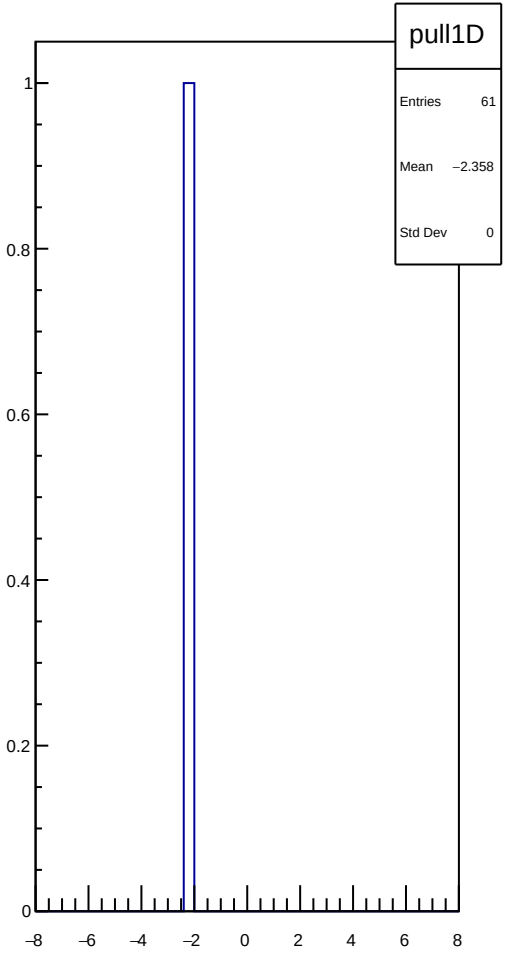

yield_cav4cY_rms vs run
χ² / ndf 6.908e+04 / 60
p0 0.009598 ± 9.139e−06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

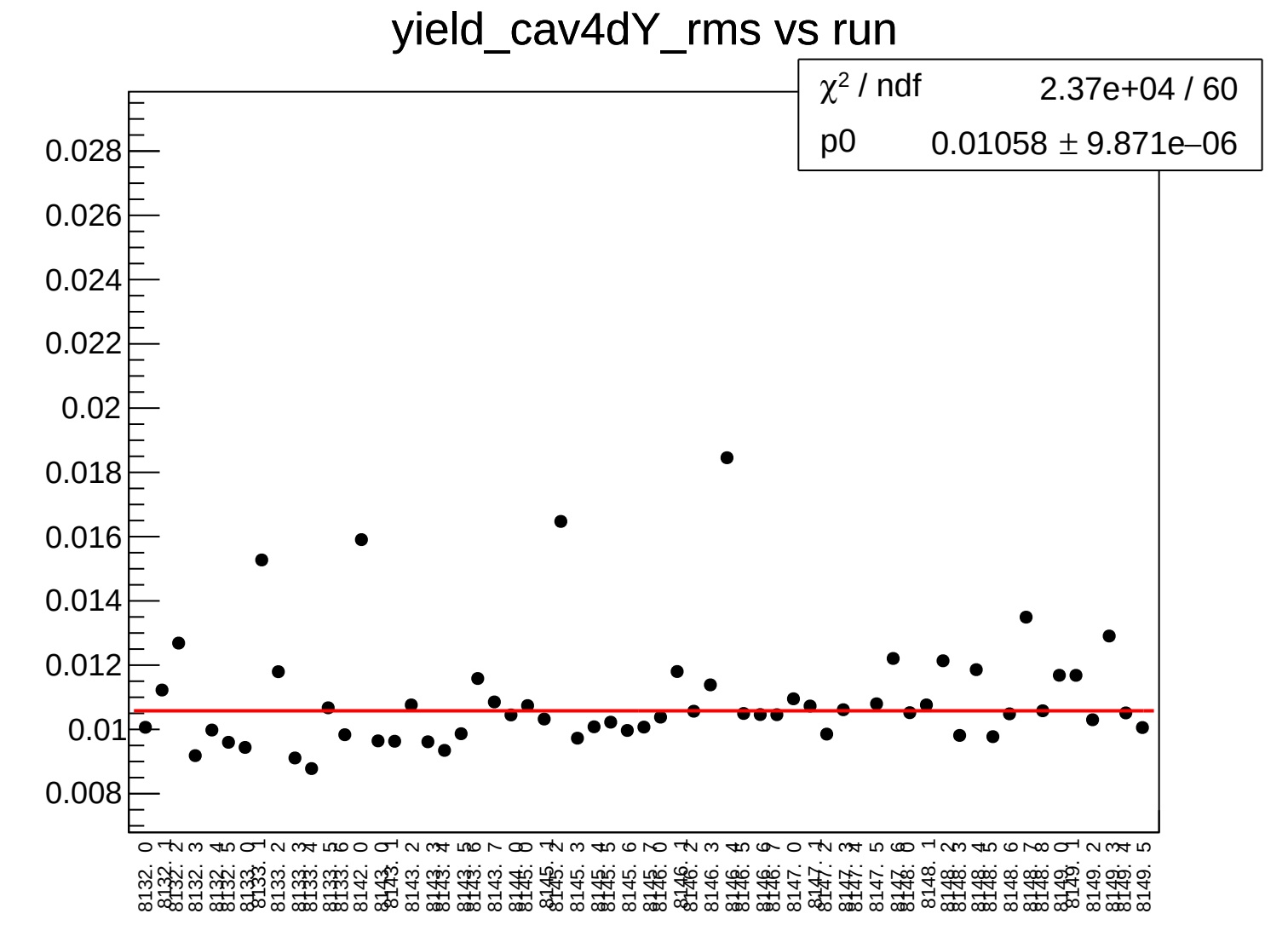

yield_cav4dX_mean vs run
χ² / ndf 4.623e+04 / 60
p0 0.7724 ± 0.001002
pull
Entries 61
Mean −179.8
Std Dev 201.6

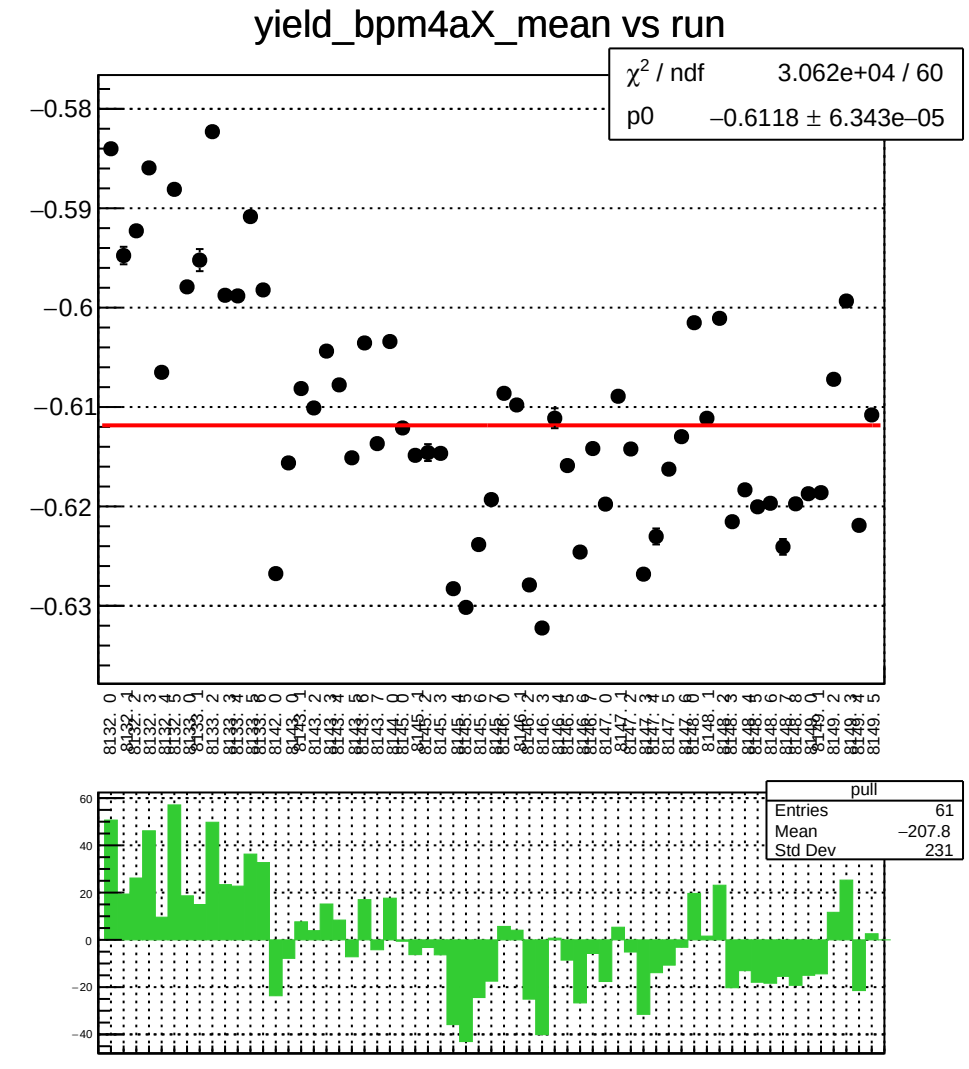

pull1D
Entries 61
Mean −1.001
Std Dev 4.114

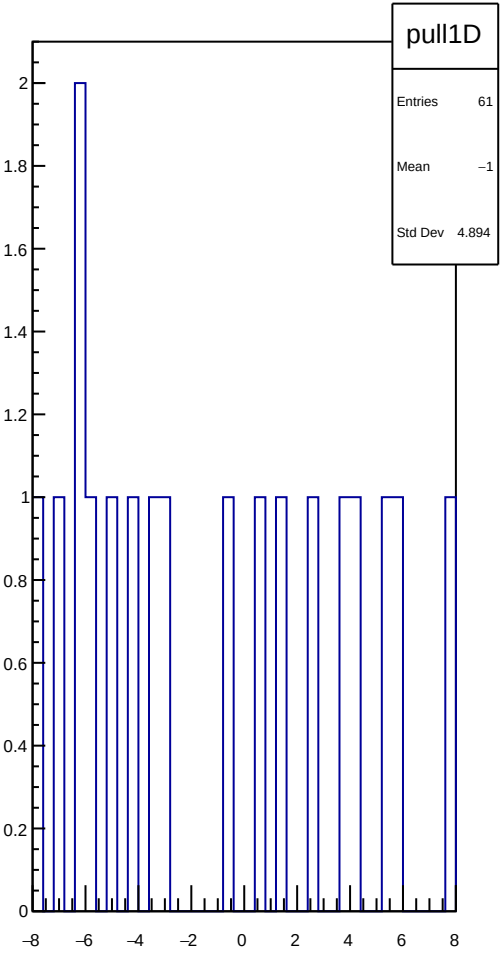

yield_cav4dX_rms vs run
χ² / ndf 3.952e+04 / 60
p0 0.7537 ± 0.0007082
1.6
1.4
1.2
1
0.8
0.6

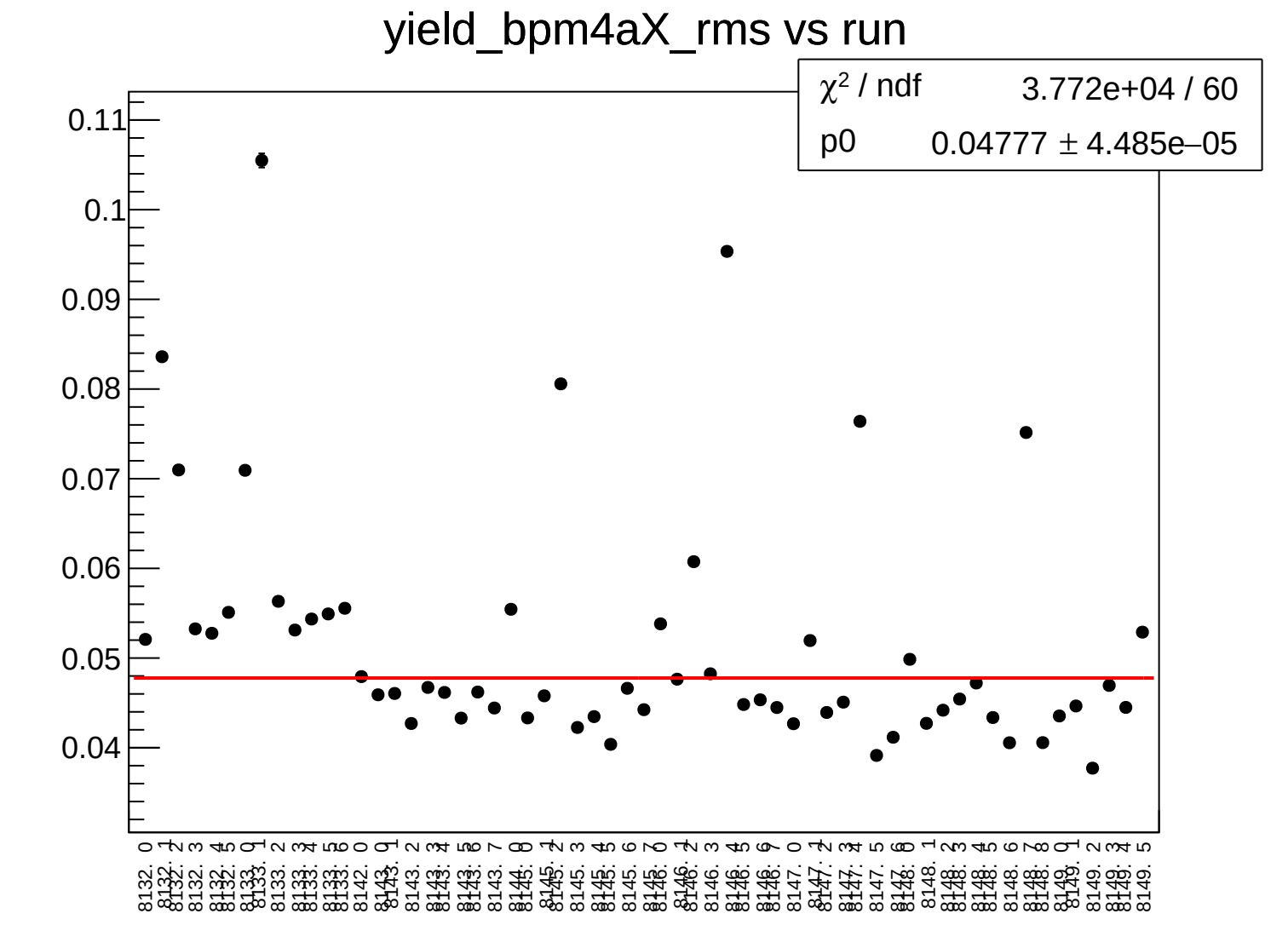

yield_cav4dY_mean vs run
χ² / ndf 3.678e+05 / 60
p0 0.9924 ± 1.396e−05
1.01
1.005
1
0.995
0.99
0.985
0.98
0.975
pull
Entries 61
Mean 110.9
Std Dev 97.39
200
150
100
50
0
−50
−100
−150

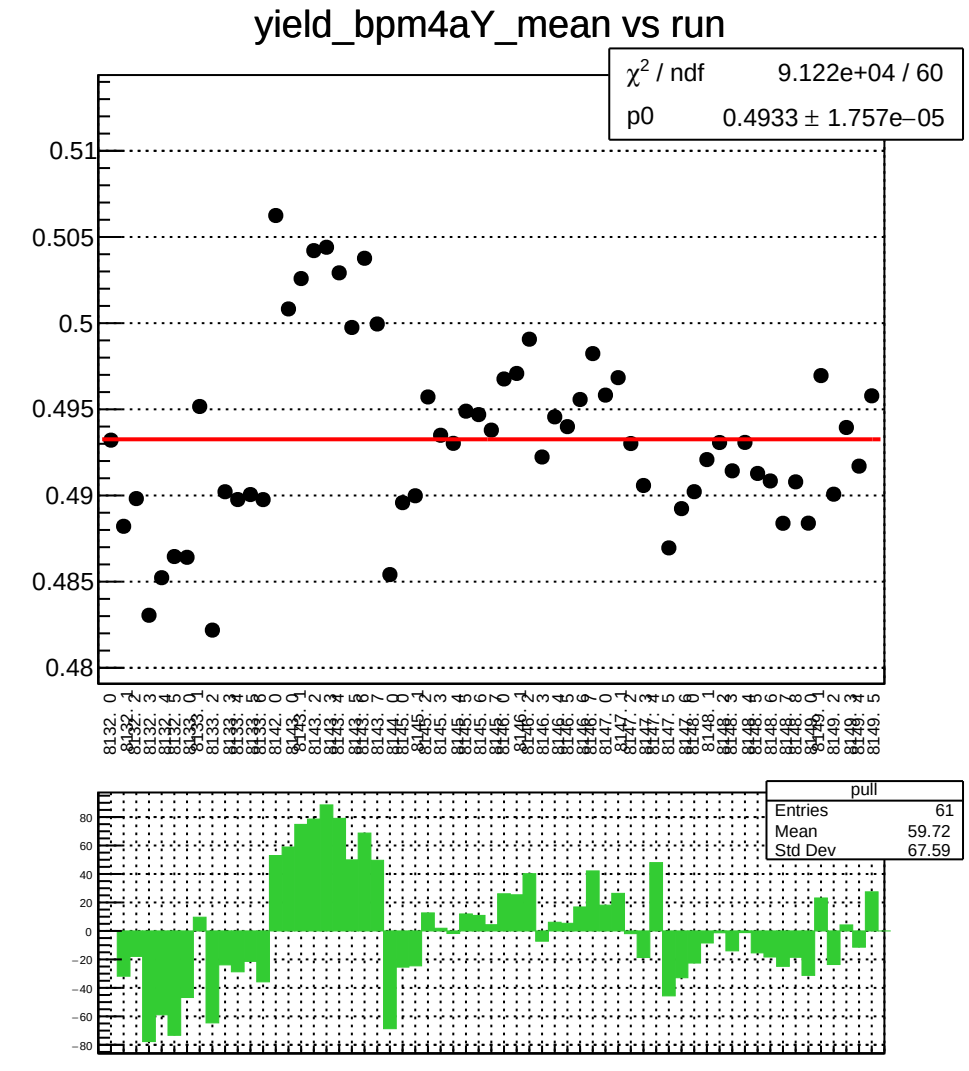

pull1D
Entries 61
Mean −2.358
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

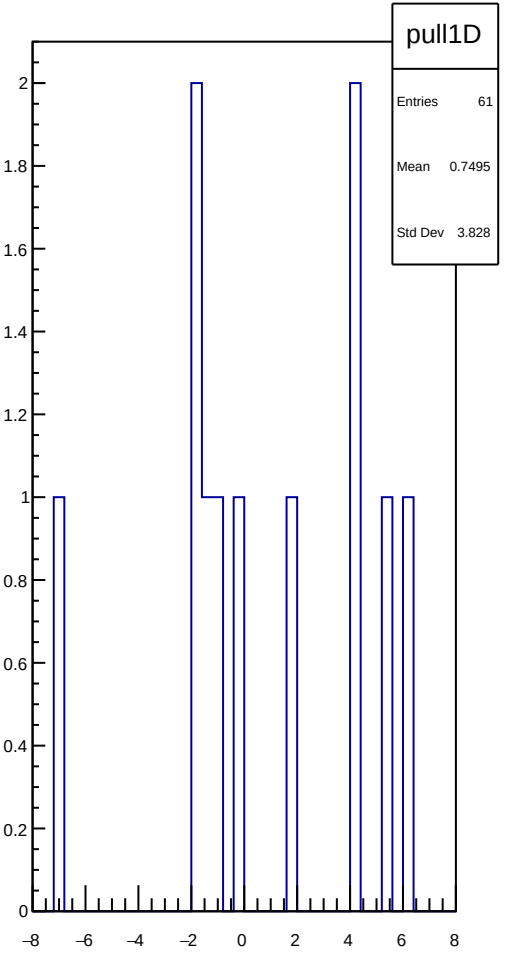

yield_cav4dY_rms vs run
χ² / ndf 2.37e+04 / 60
p0 0.01058 ± 9.871e–06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

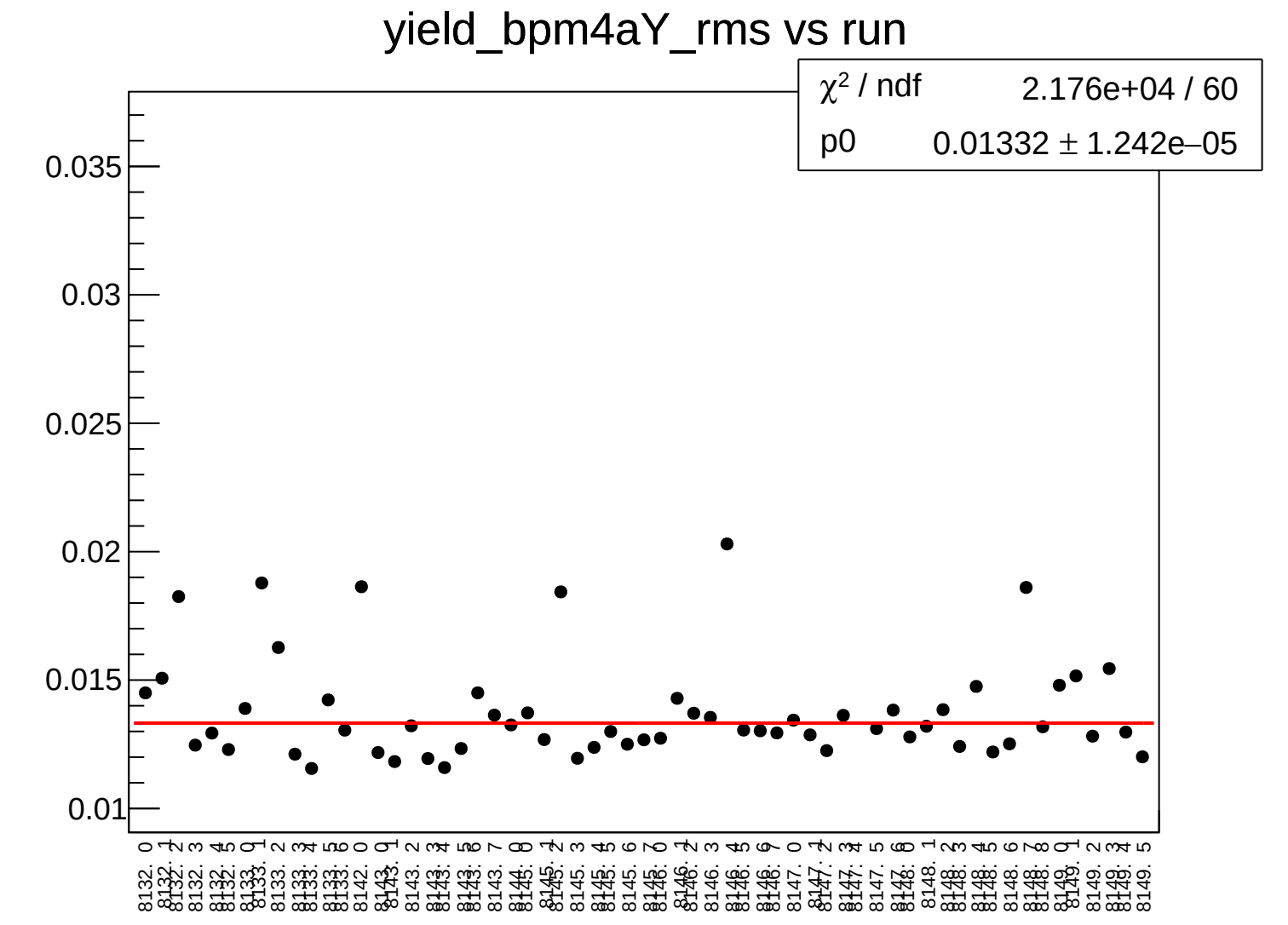

yield_bpm4aX_mean vs run
χ² / ndf 3.062e+04 / 60
p0 −0.6118 ± 6.343e−05
−0.58
−0.59
−0.6
−0.61
−0.62
−0.63
pull
Entries 61
Mean −207.8
Std Dev 231
60
40
20
0
−20
−40

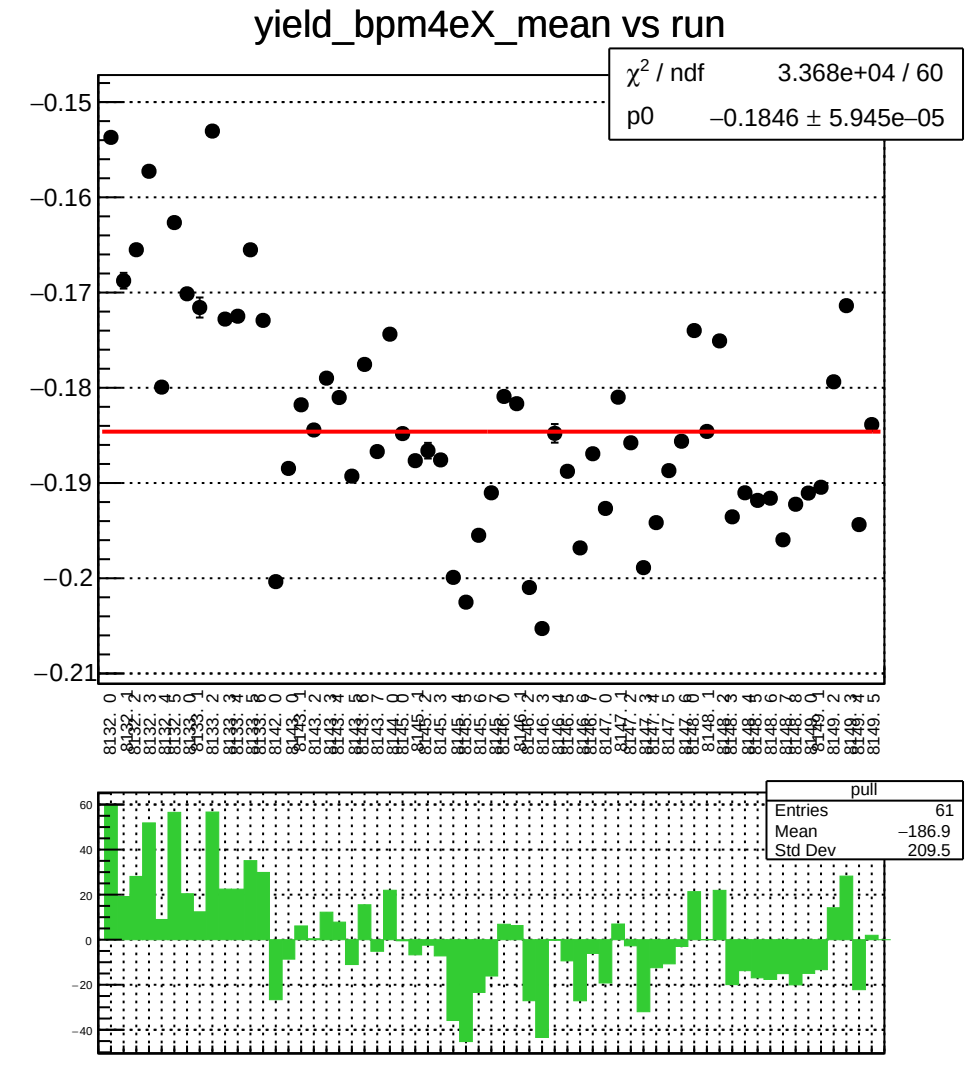

pull1D
Entries 61
Mean −1
Std Dev 4.894
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

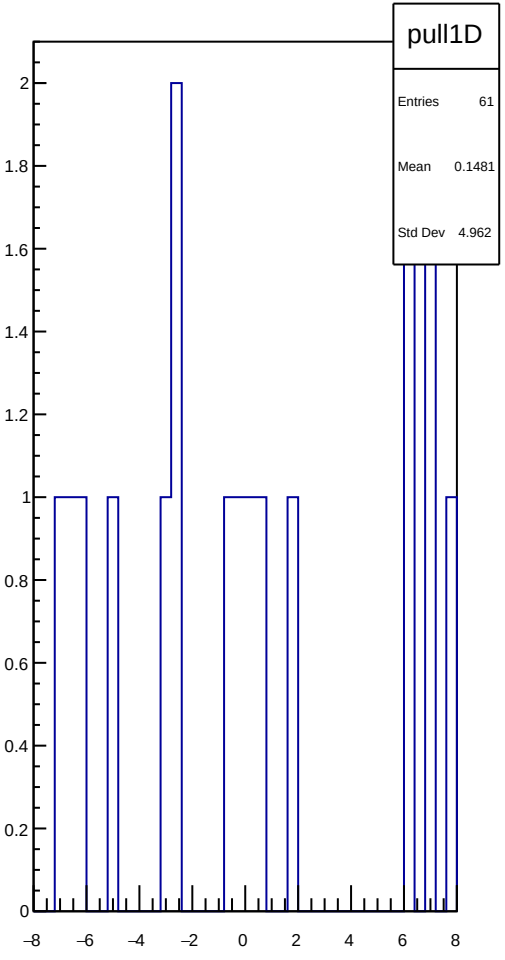

yield_bpm4aX_rms vs run
χ² / ndf 3.772e+04 / 60
p0 0.04777 ± 4.485e–05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

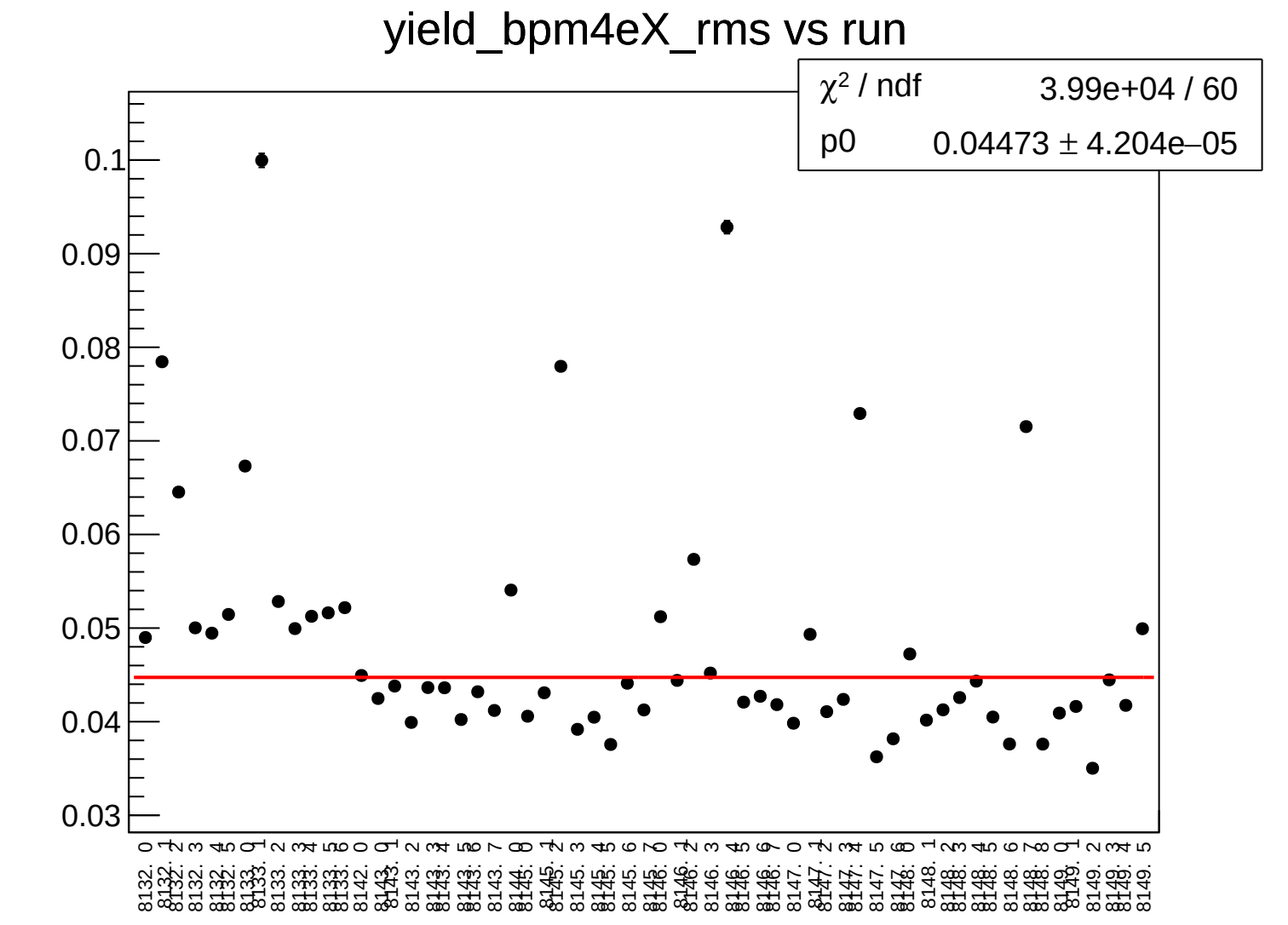

yield_bpm4aY_mean vs run
χ² / ndf 9.122e+04 / 60
p0 0.4933 ± 1.757e−05
0.51
0.505
0.5
0.495
0.49
0.485
0.48
pull
Entries 61
Mean 59.72
Std Dev 67.59
80
60
40
20
0
−20
−40
−60
−80

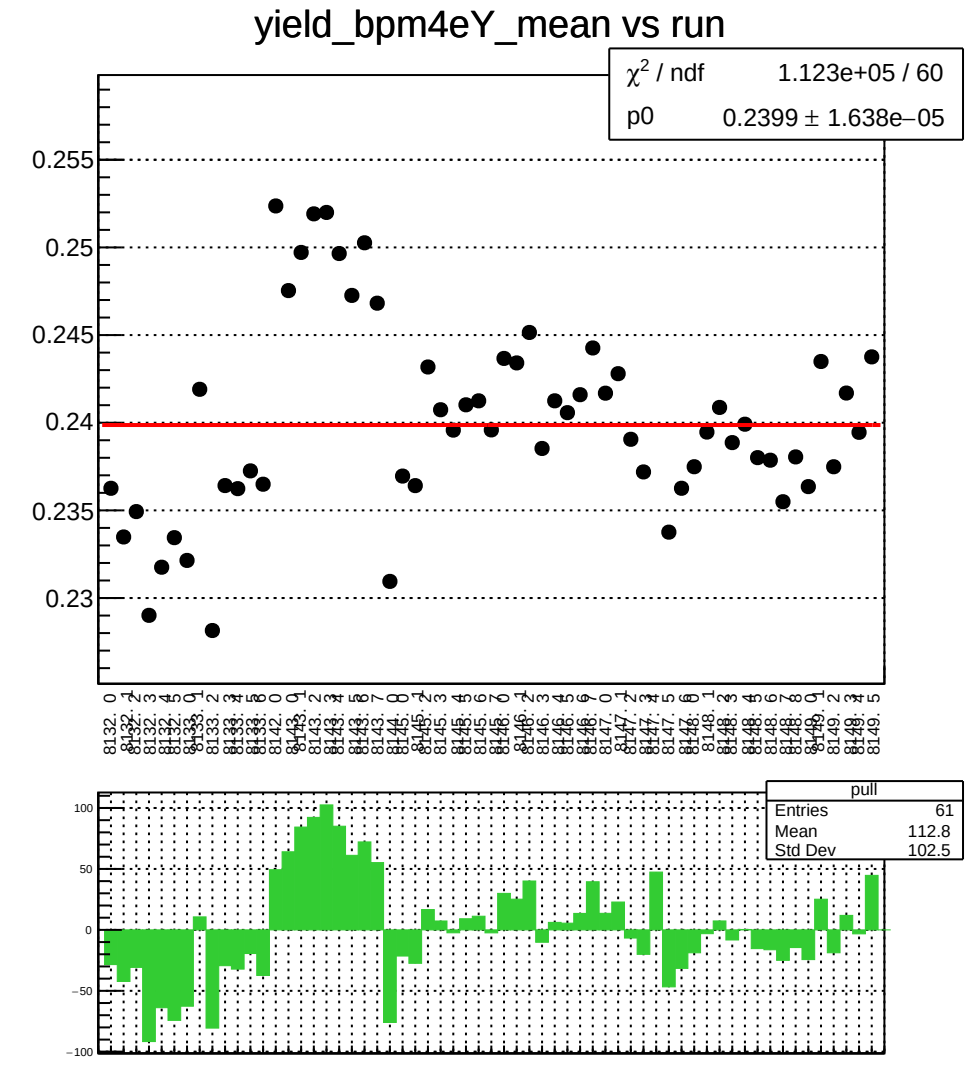

pull1D
Entries 61
Mean 0.7495
Std Dev 3.828
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

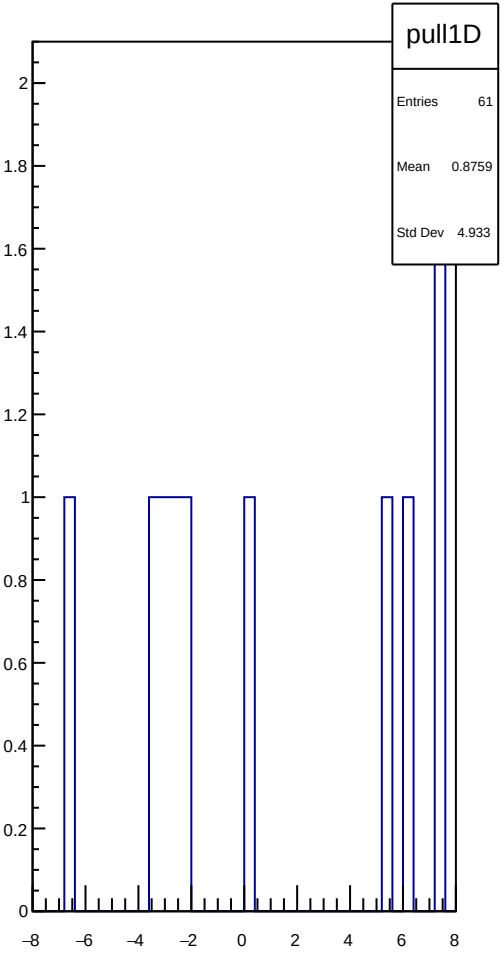

yield_bpm4aY_rms vs run
χ² / ndf 2.176e+04 / 60
p0 0.01332 ± 1.242e−05
0.035
0.03
0.025
0.02
0.015
0.01

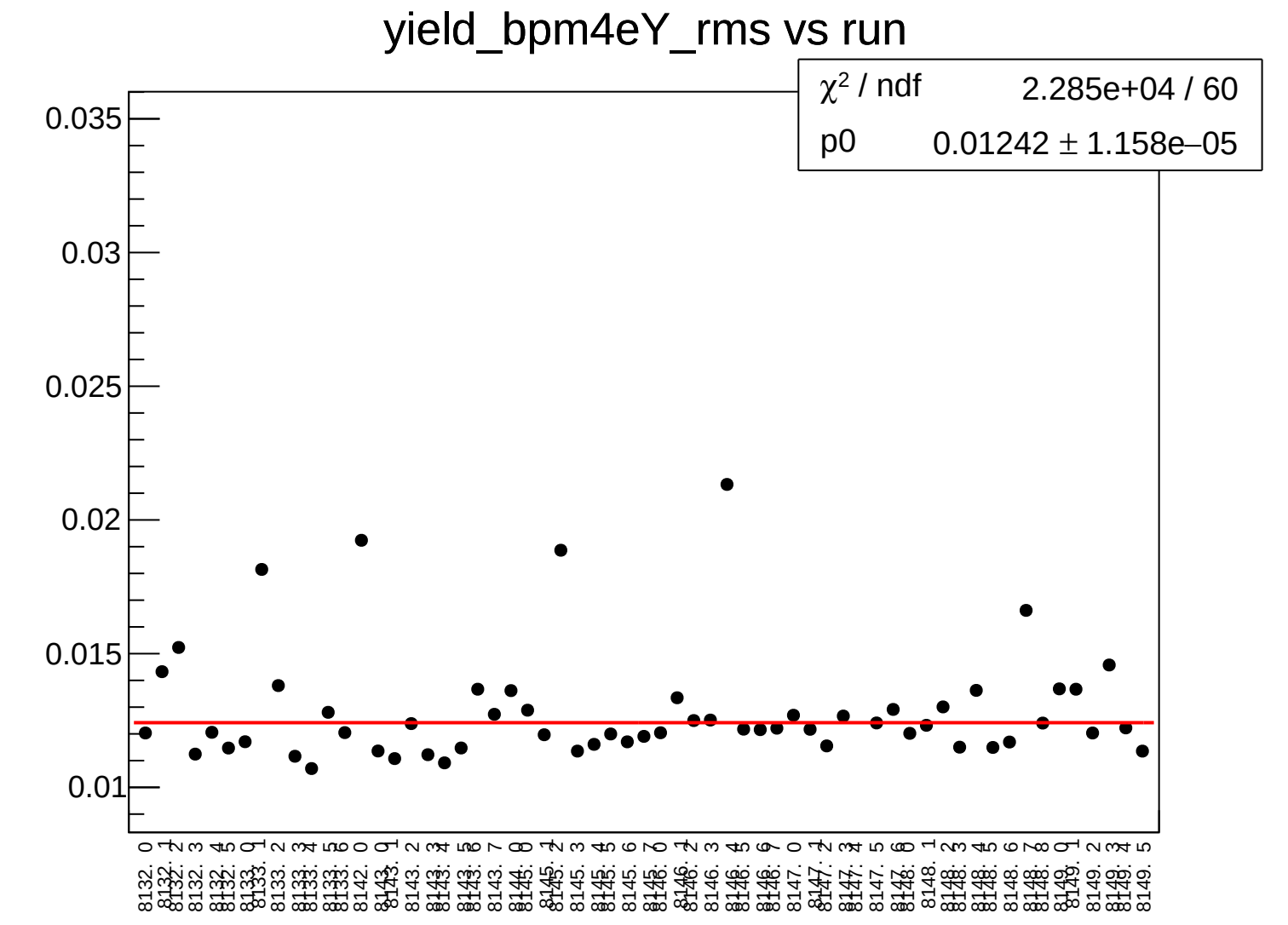

yield_bpm4eX_mean vs run
χ² / ndf 3.368e+04 / 60
p0 −0.1846 ± 5.945e−05
pull
Entries 61
Mean −186.9
Std Dev 209.5

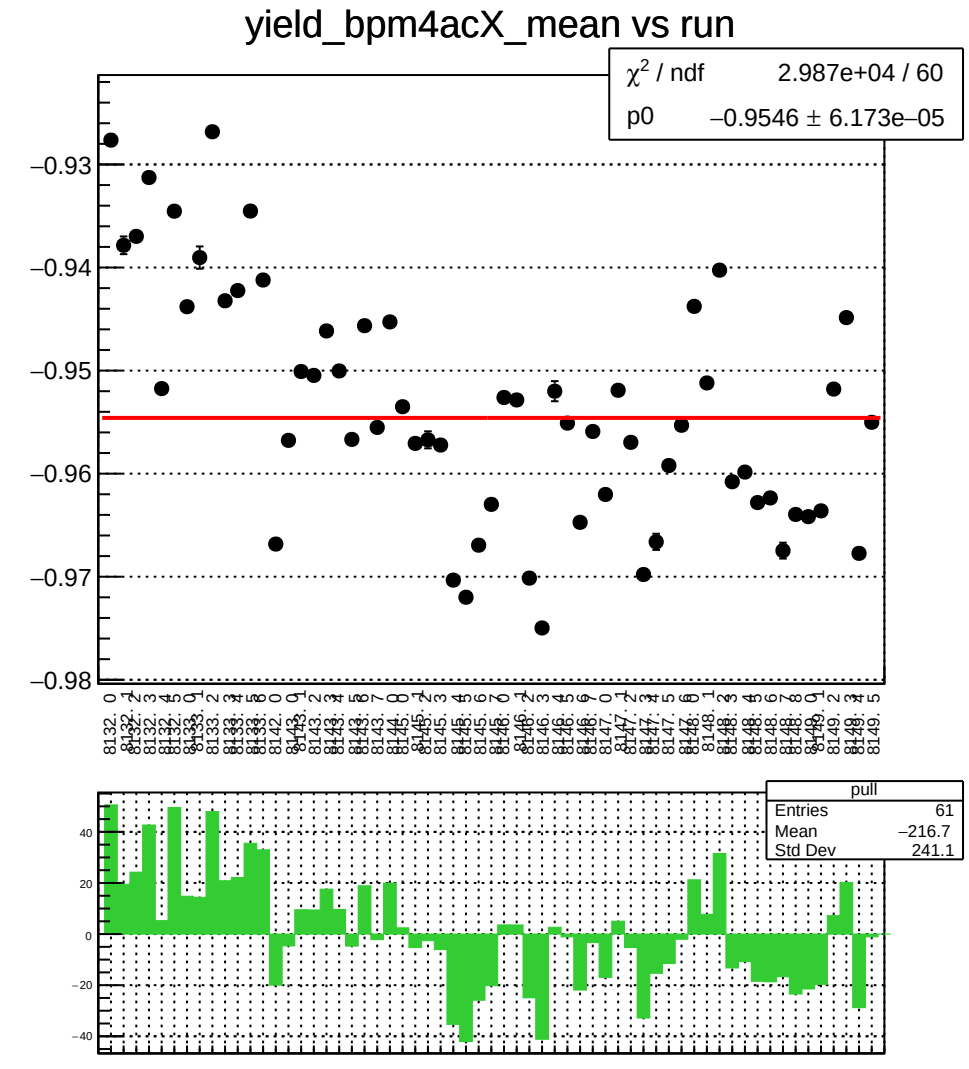

pull1D
Entries 61
Mean 0.1481
Std Dev 4.962

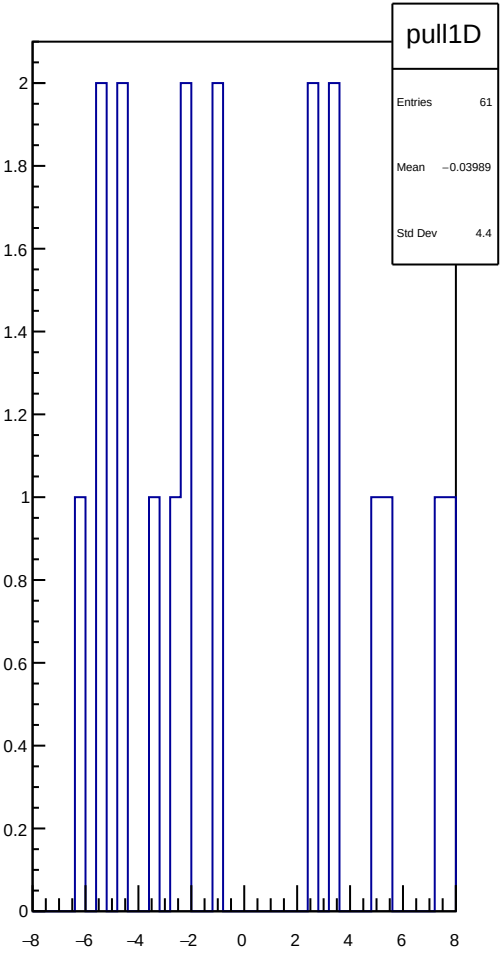

yield_bpm4eX_rms vs run
χ² / ndf 3.99e+04 / 60
p0 0.04473 ± 4.204e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

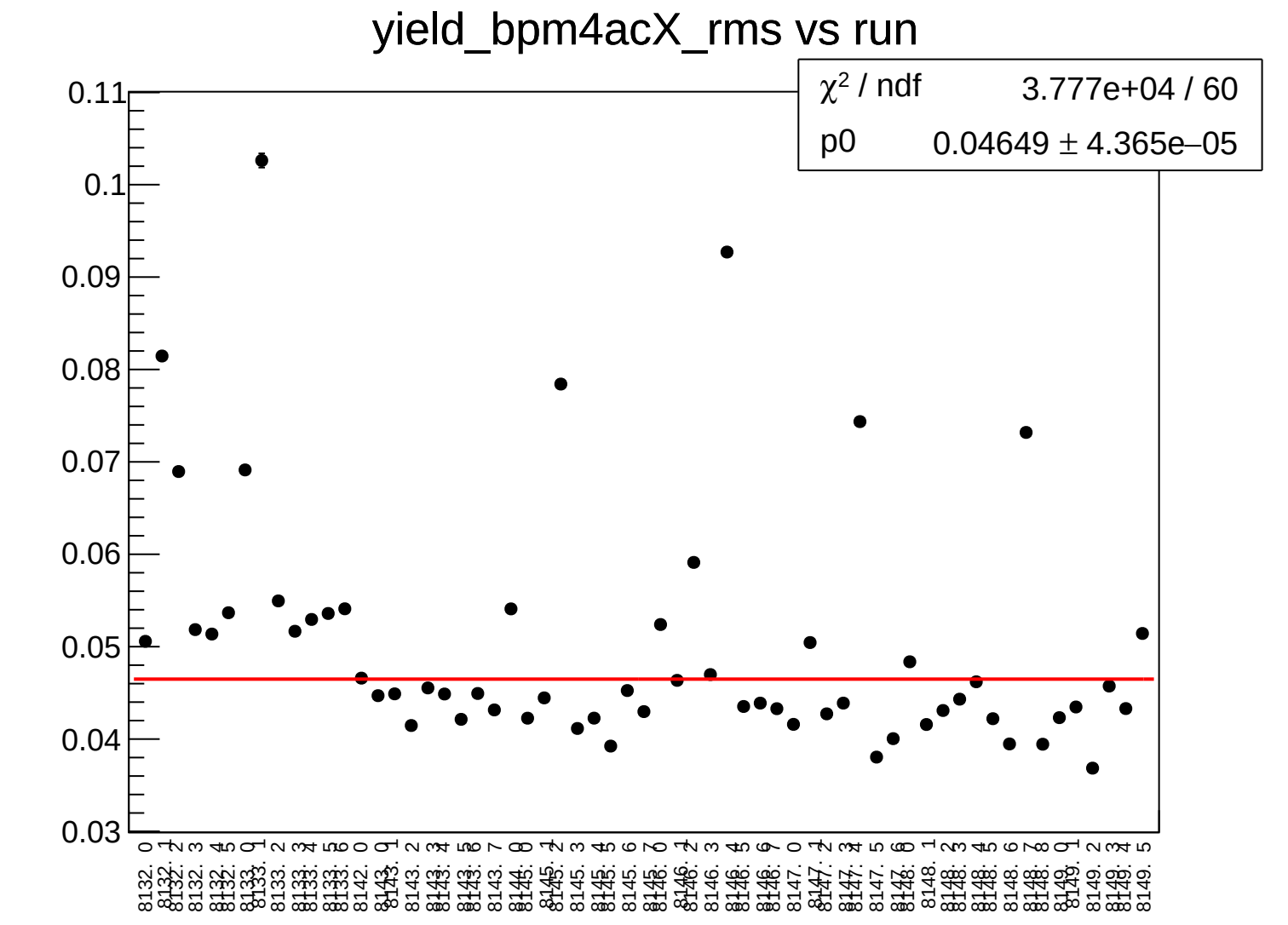

yield_bpm4eY_mean vs run
χ² / ndf 1.123e+05 / 60
p0 0.2399 ± 1.638e−05
0.255
0.25
0.245
0.24
0.235
0.23
pull
Entries 61
Mean 112.8
Std Dev 102.5
100
50
0
−50
−100

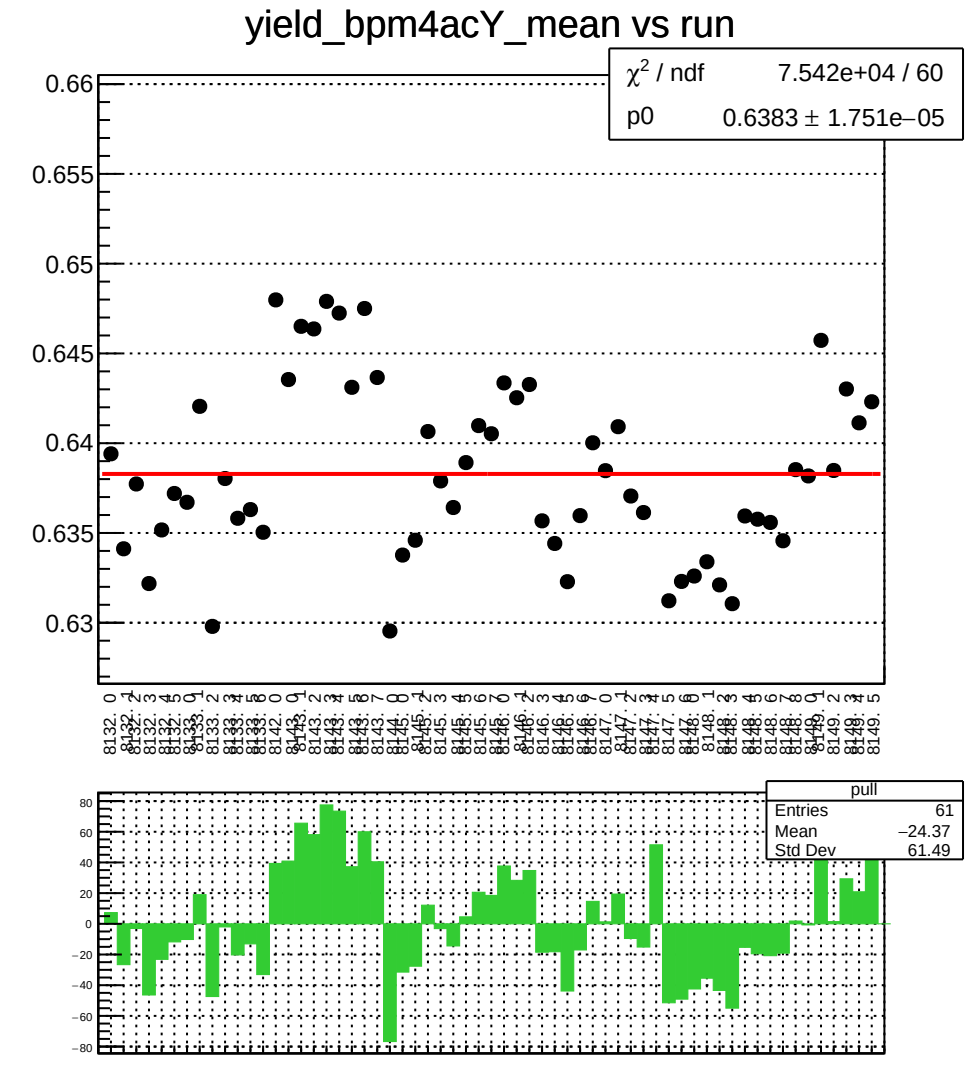

pull1D
Entries 61
Mean 0.8759
Std Dev 4.933
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

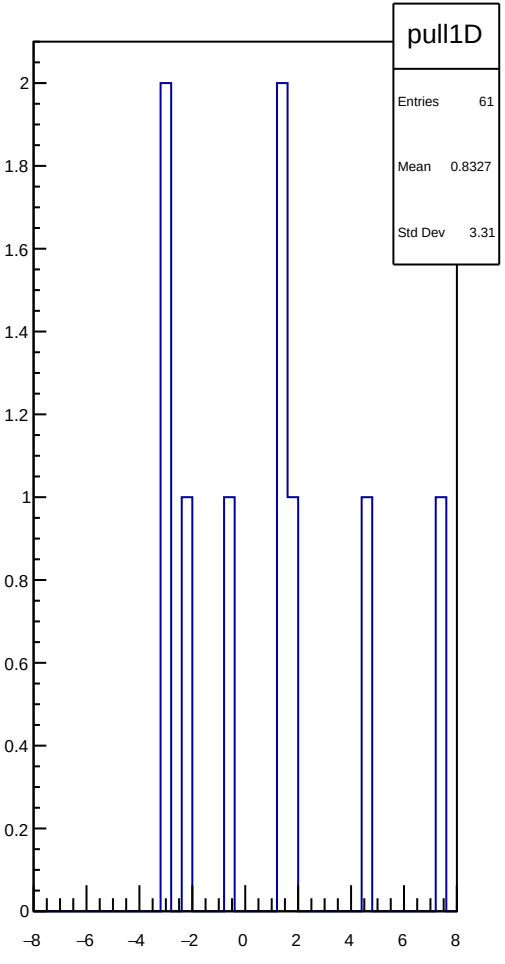

yield_bpm4eY_rms vs run
χ² / ndf 2.285e+04 / 60
p0 0.01242 ± 1.158e−05
0.035
0.03
0.025
0.02
0.015
0.01

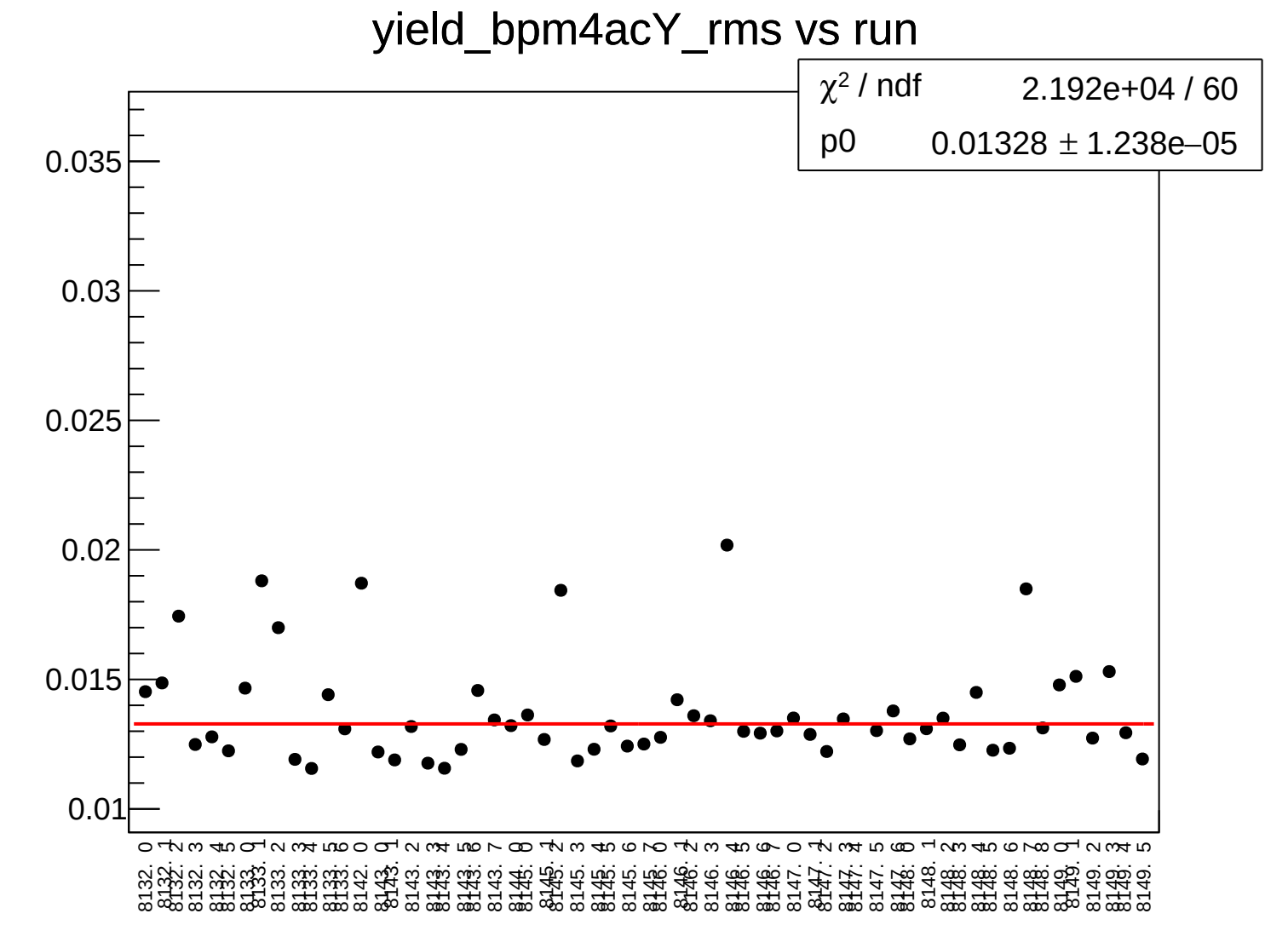

yield_bpm4acX_mean vs run
χ² / ndf 2.987e+04 / 60
p0 −0.9546 ± 6.173e−05
−0.93
−0.94
−0.95
−0.96
−0.97
−0.98
pull
Entries 61
Mean −216.7
Std Dev 241.1
40
20
0
−20
−40

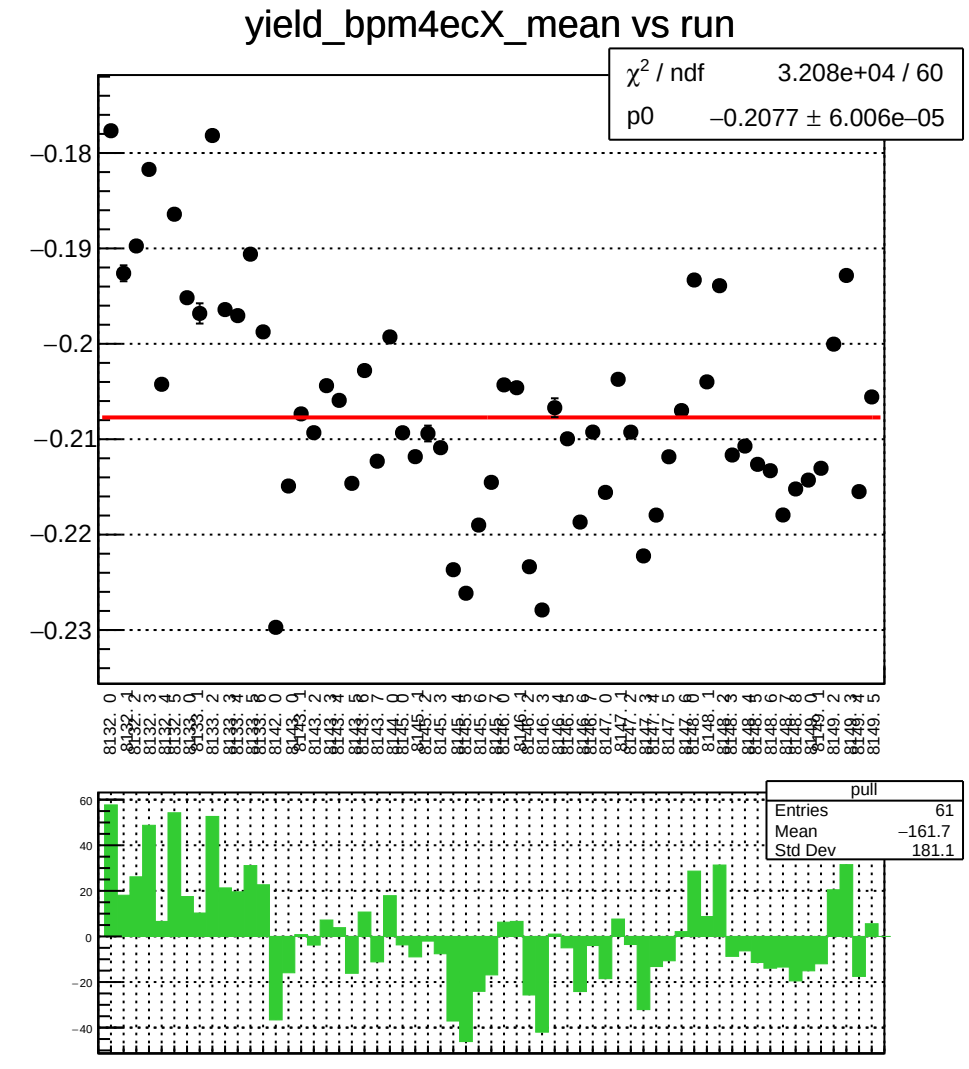

pull1D
Entries 61
Mean −0.03989
Std Dev 4.4
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

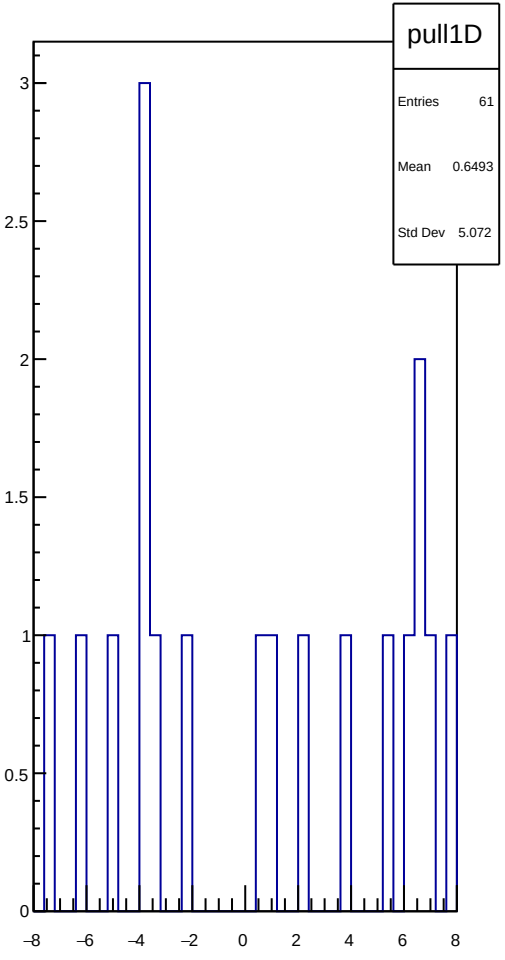

yield_bpm4acX_rms vs run
χ² / ndf 3.777e+04 / 60
p0 0.04649 ± 4.365e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

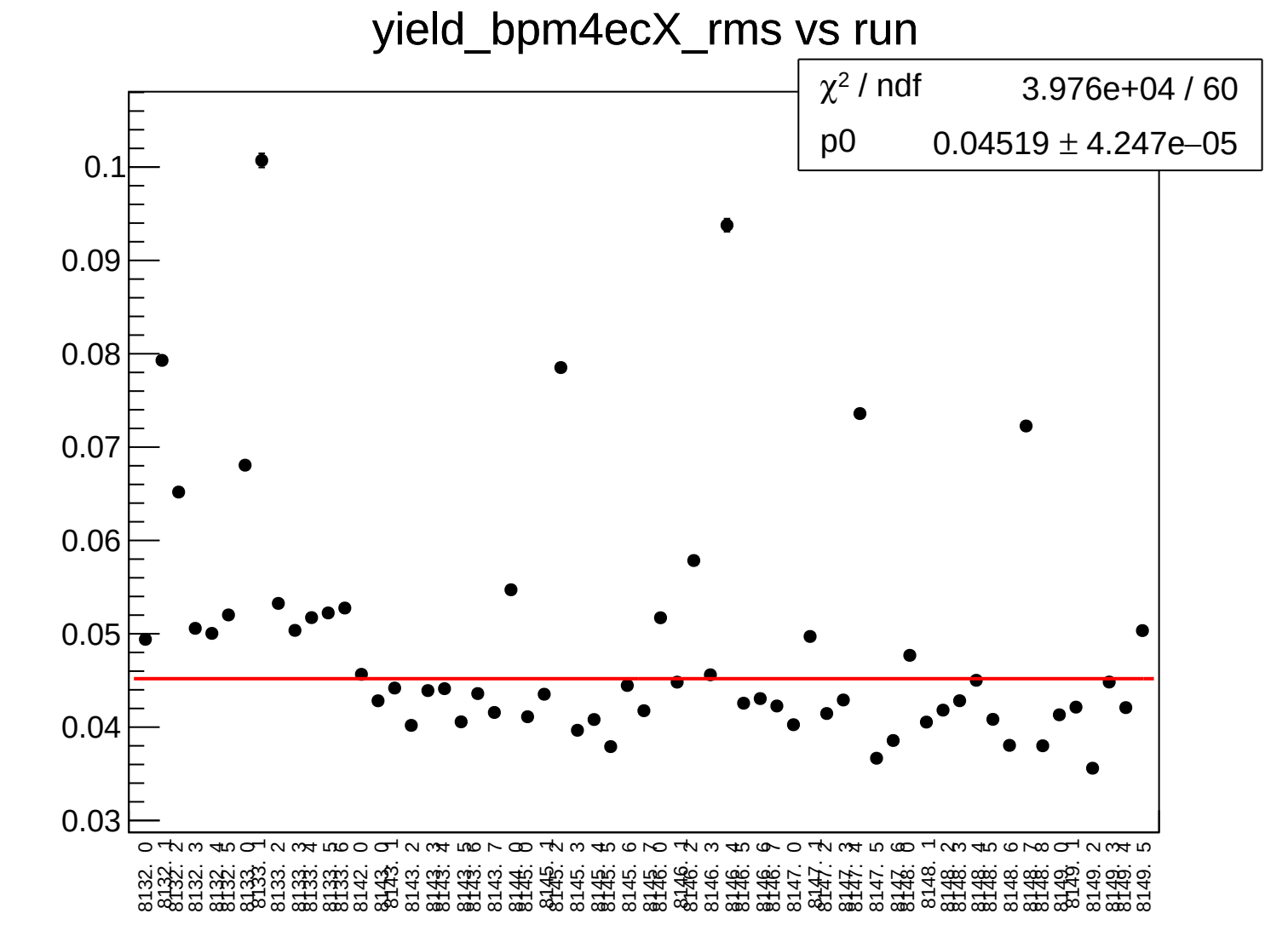

yield_bpm4acY_mean vs run
χ² / ndf 7.542e+04 / 60
p0 0.6383 ± 1.751e−05
pull
Entries 61
Mean −24.37
Std Dev 61.49

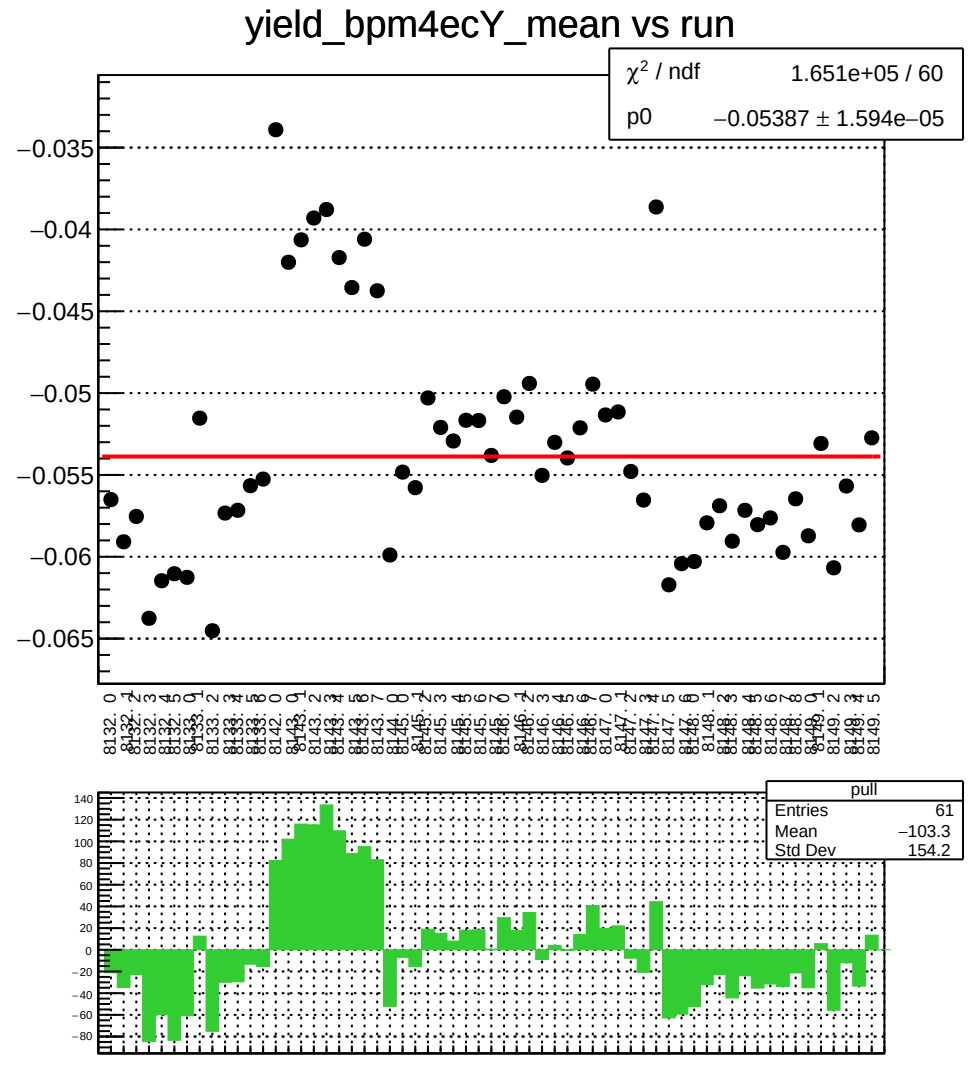

pull1D
Entries 61
Mean 0.8327
Std Dev 3.31

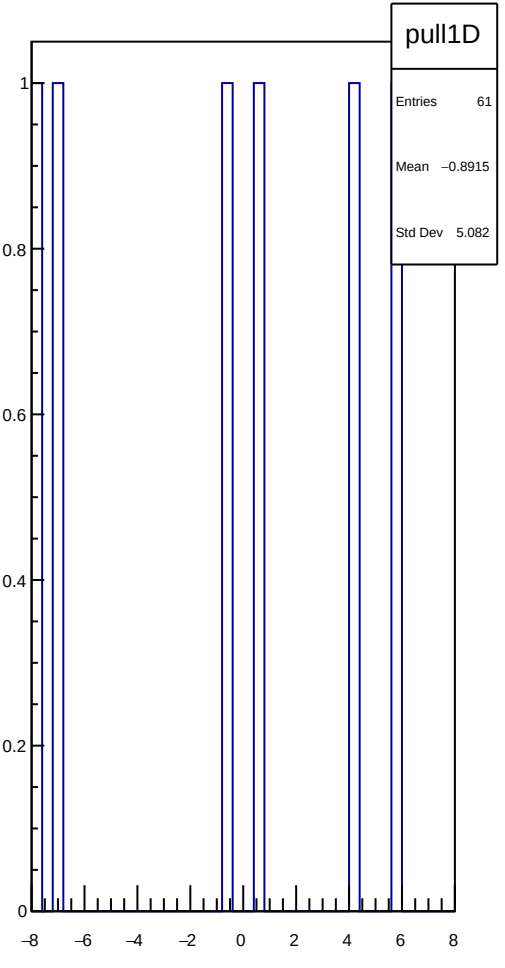

yield_bpm4acY_rms vs run
χ² / ndf 2.192e+04 / 60
p0 0.01328 ± 1.238e−05
0.035
0.03
0.025
0.02
0.015
0.01

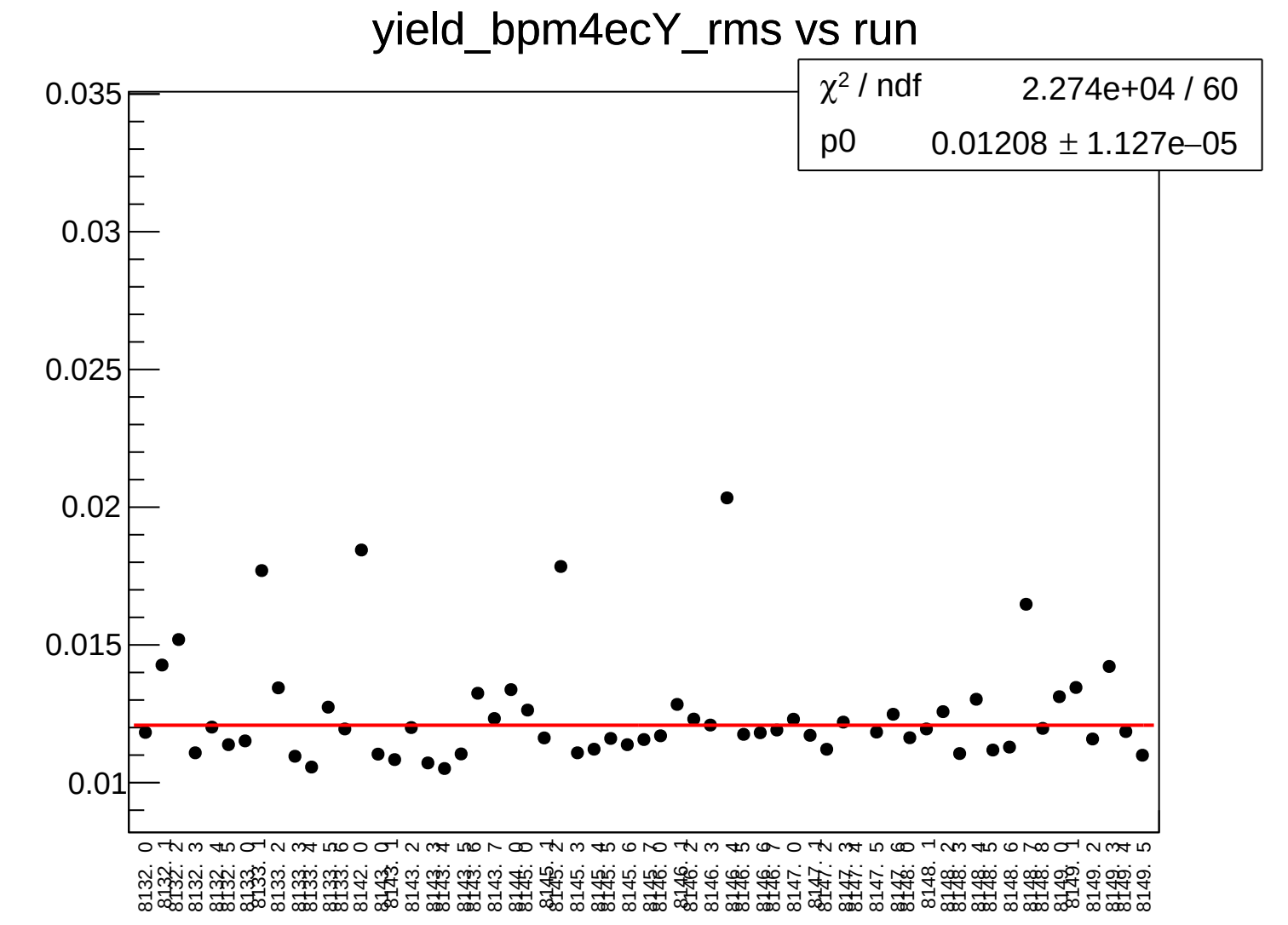

yield_bpm4ecX_mean vs run
χ² / ndf 3.208e+04 / 60
p0 −0.2077 ± 6.006e−05
−0.18
−0.19
−0.2
−0.21
−0.22
−0.23
pull
Entries 61
Mean −161.7
Std Dev 181.1
60
40
20
0
−20
−40

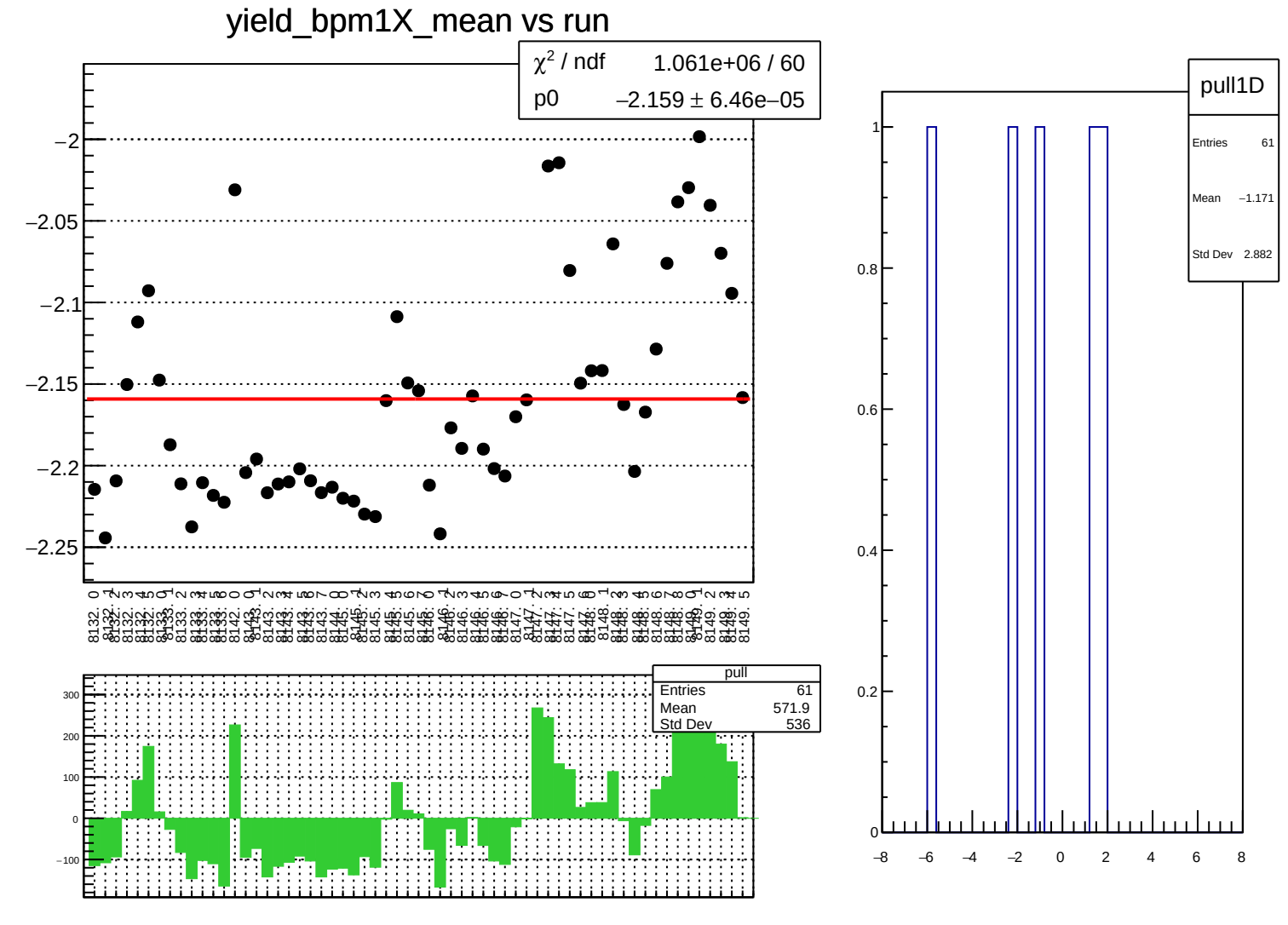

pull1D
Entries 61
Mean 0.6493
Std Dev 5.072
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

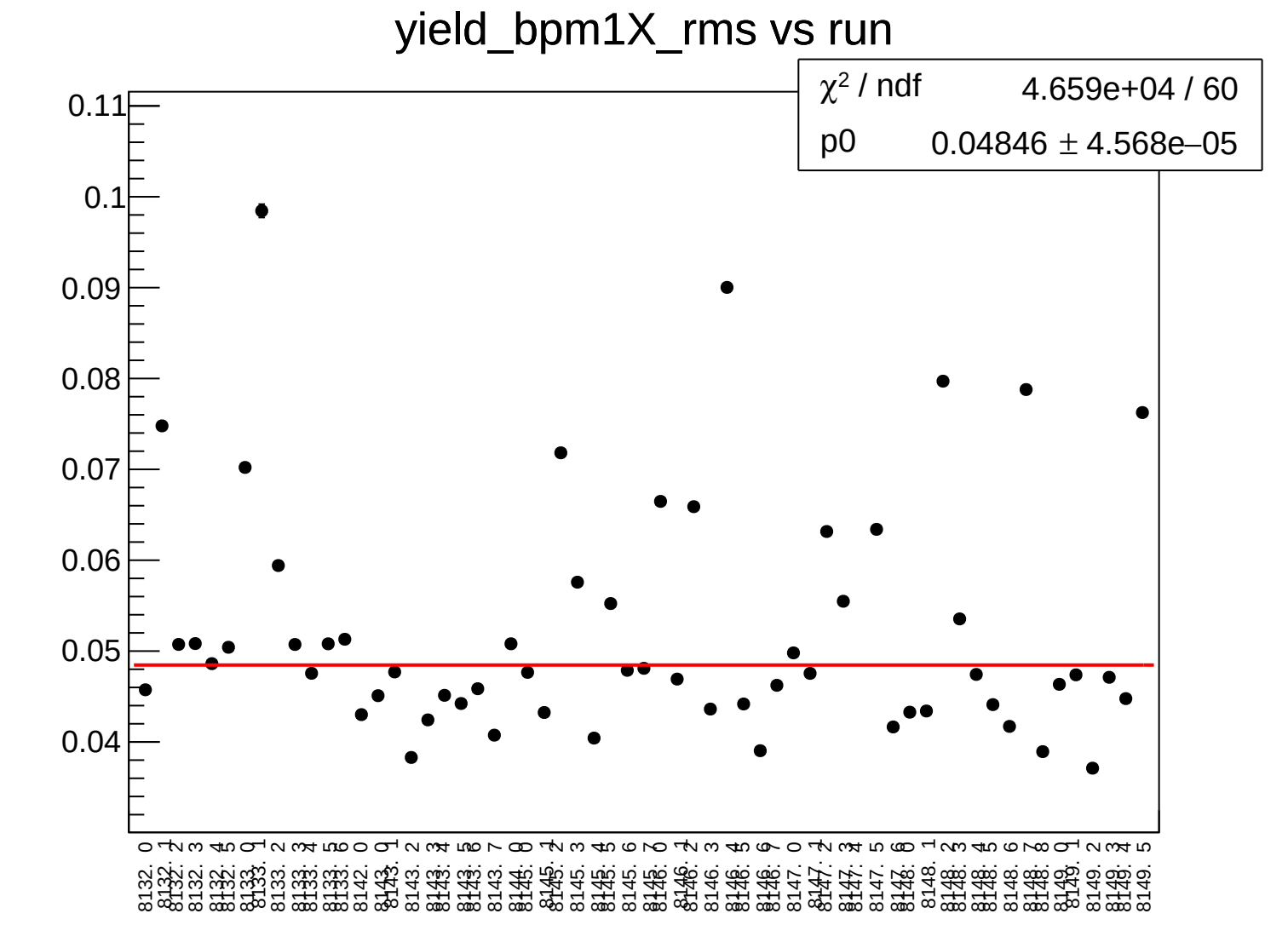

yield_bpm4ecX_rms vs run
χ² / ndf 3.976e+04 / 60
p0 0.04519 ± 4.247e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

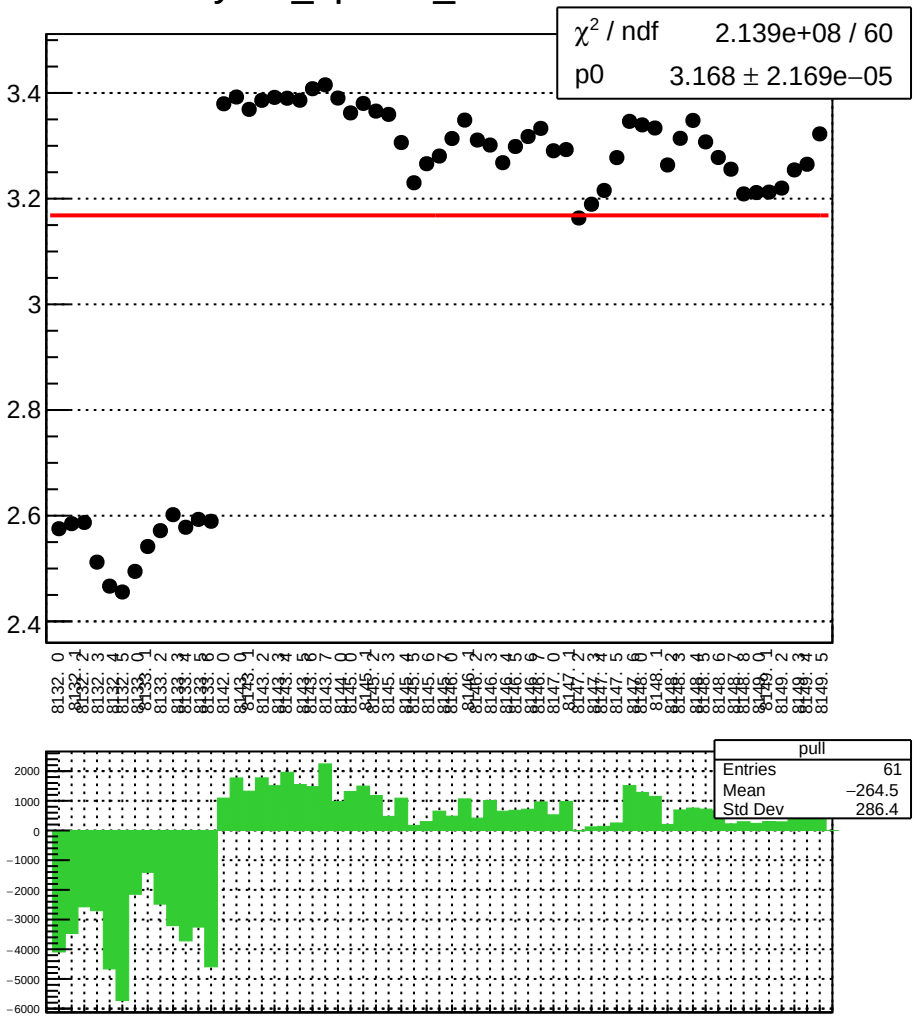

yield_bpm4ecY_mean vs run
χ² / ndf 1.651e+05 / 60
p0 −0.05387 ± 1.594e−05
−0.035
−0.04
−0.045
−0.05
−0.055
−0.06
−0.065
pull
Entries 61
Mean −103.3
Std Dev 154.2
140
120
100
80
60
40
20
0
−20
−40
−60
−80

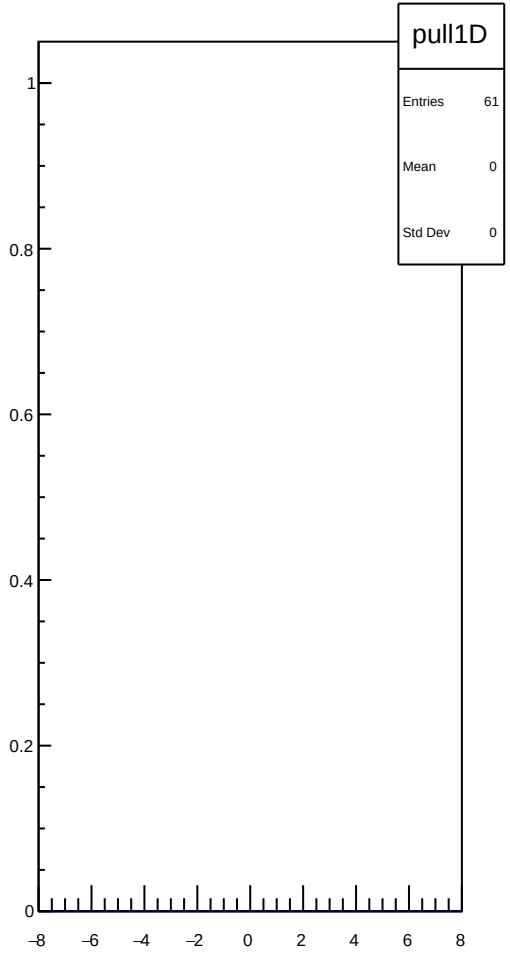

pull1D
Entries 61
Mean −0.8915
Std Dev 5.082
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

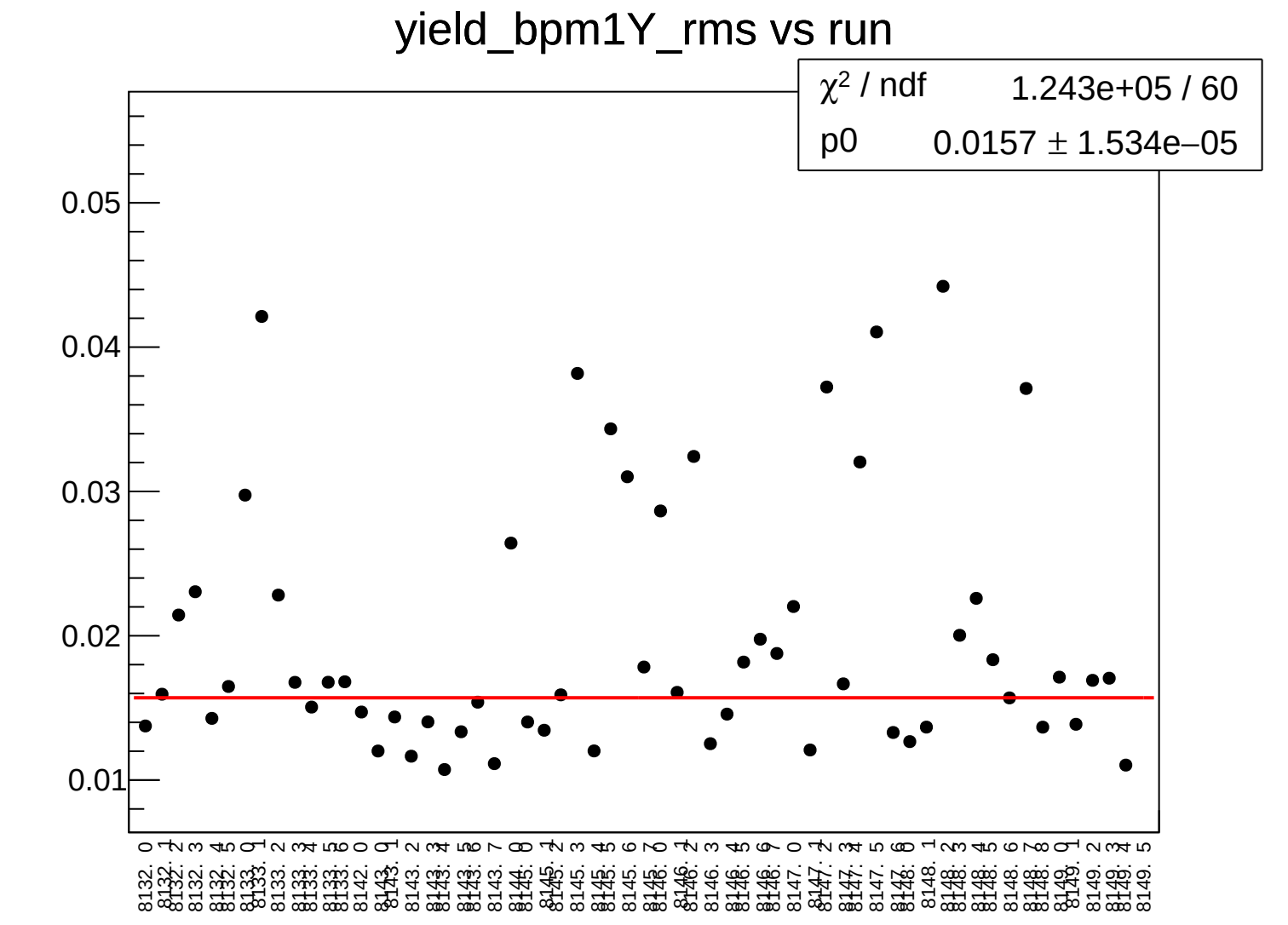

yield_bpm4ecY_rms vs run
χ² / ndf 2.274e+04 / 60
p0 0.01208 ± 1.127e–05
0.035
0.03
0.025
0.02
0.015
0.01

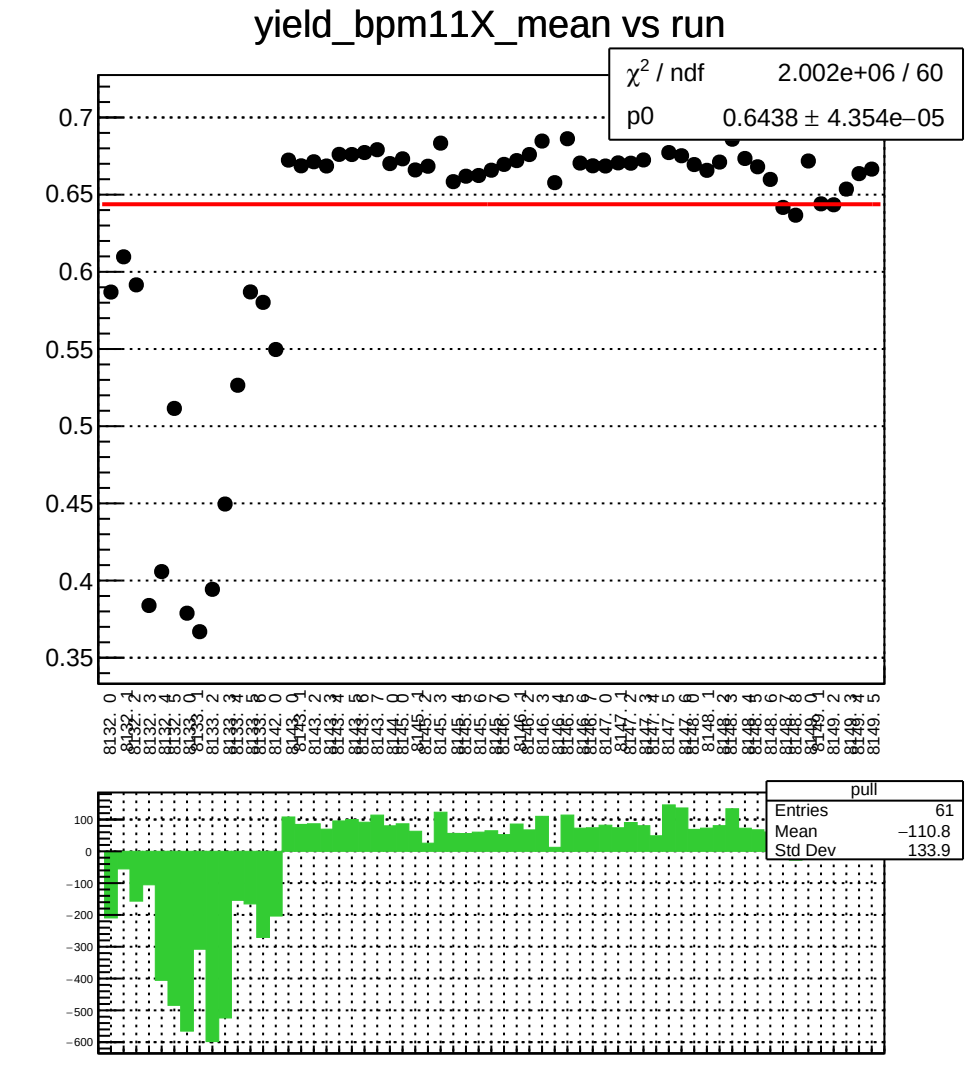

yield_bpm1X_mean vs run
χ² / ndf 1.061e+06 / 60
p0 −2.159 ± 6.46e−05
pull
Entries 61
Mean 571.9
Std Dev 536
pull1D
Entries 61
Mean −1.171
Std Dev 2.882

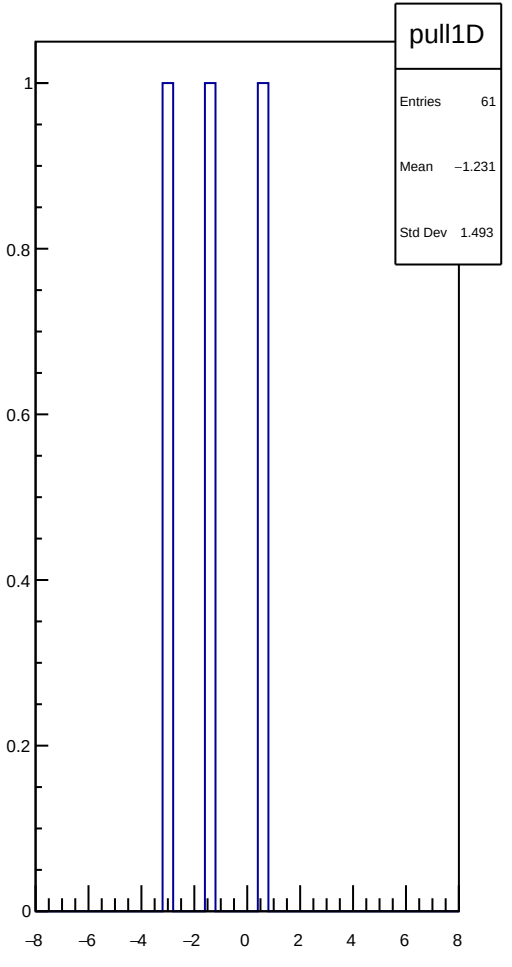

yield_bpm1X_rms vs run
χ² / ndf 4.659e+04 / 60
p0 0.04846 ± 4.568e–05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

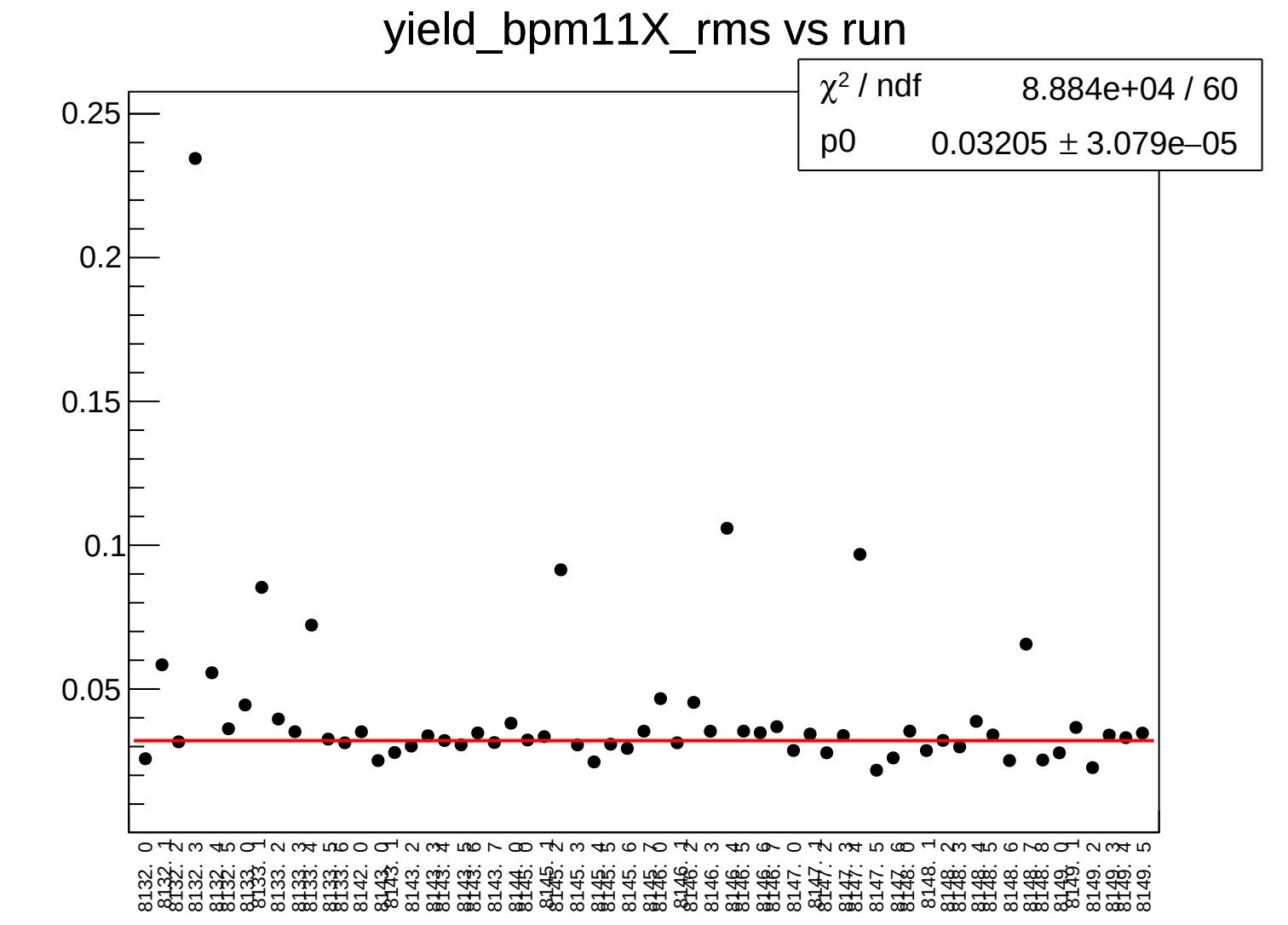

yield_bpm1Y_mean vs run
χ² / ndf 2.139e+08 / 60
p0 3.168 ± 2.169e−05
pull
Entries 61
Mean −264.5
Std Dev 286.4

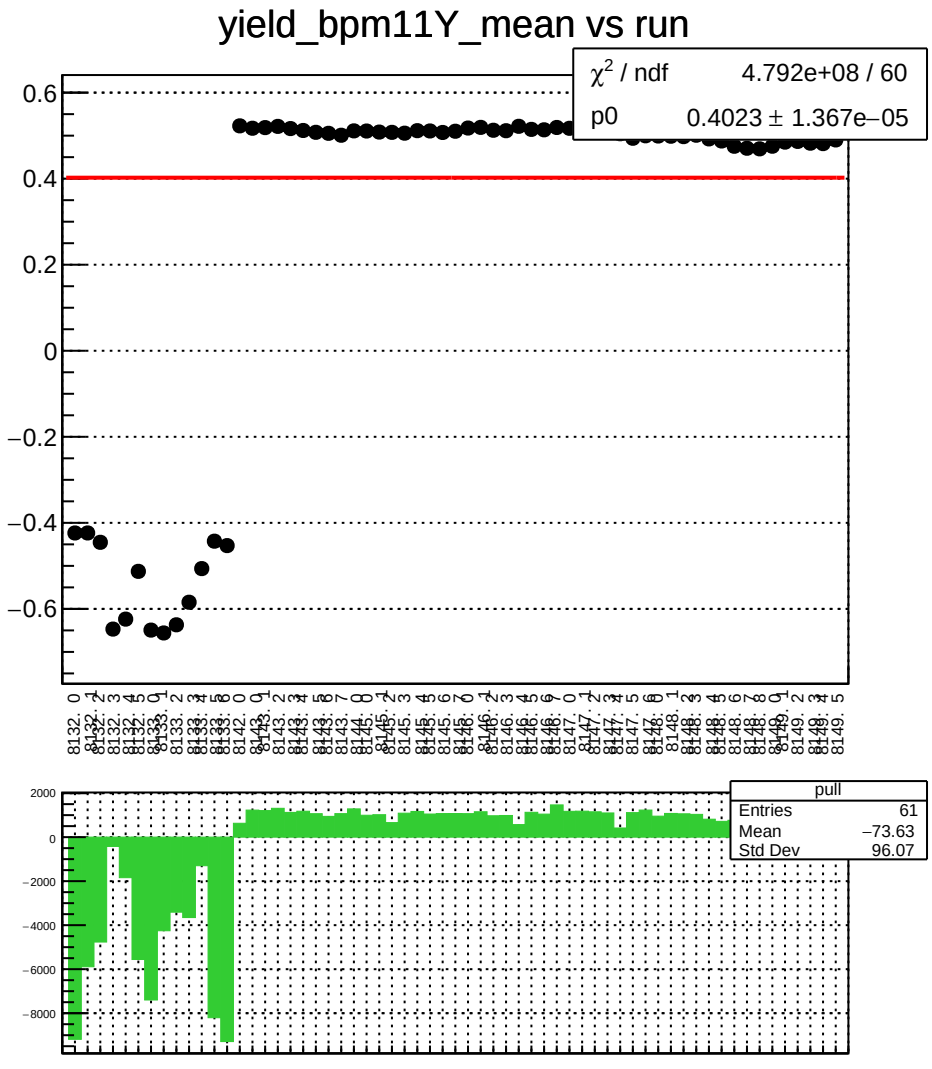

pull1D
Entries 61
Mean 0
Std Dev 0

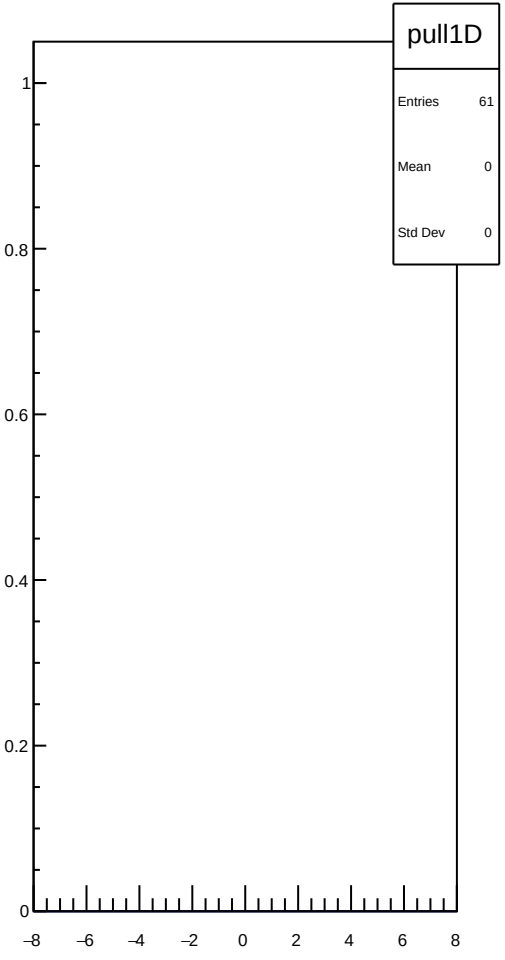

yield_bpm1Y_rms vs run
χ² / ndf 1.243e+05 / 60
p0 0.0157 ± 1.534e−05
0.05
0.04
0.03
0.02
0.01

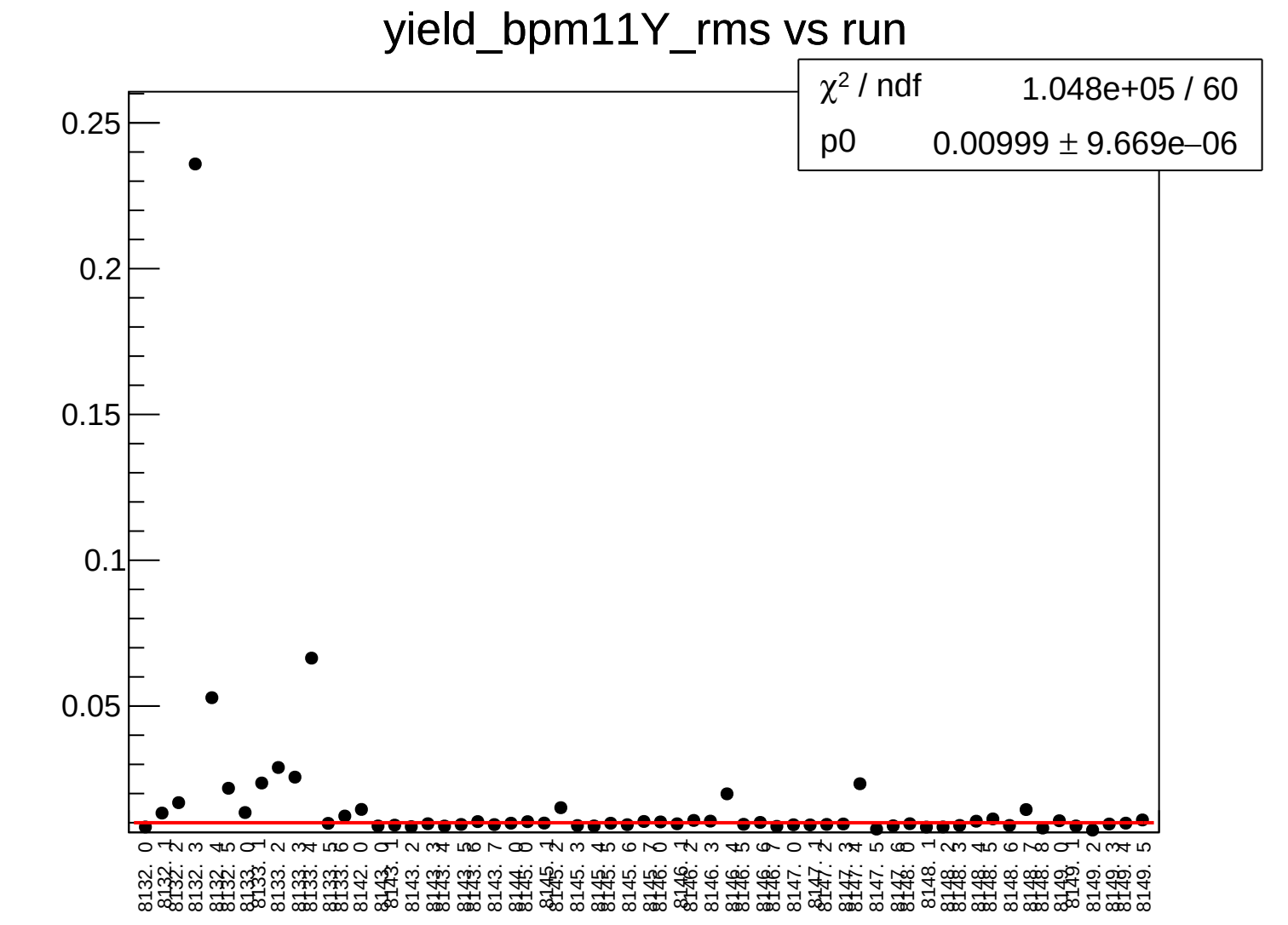

yield_bpm11X_mean vs run
χ² / ndf 2.002e+06 / 60
p0 0.6438 ± 4.354e−05
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
pull
Entries 61
Mean −110.8
Std Dev 133.9
100
0
−100
−200
−300
−400
−500
−600

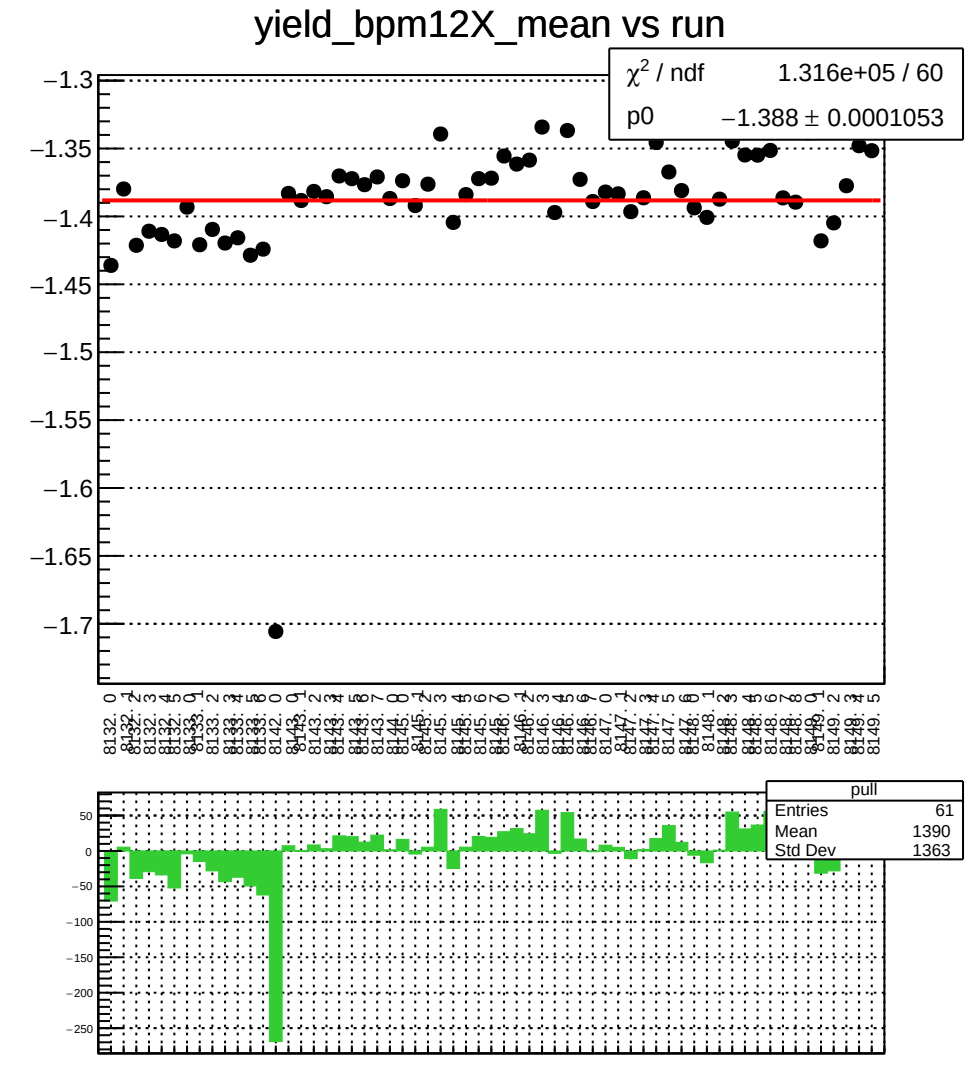

pull1D
Entries 61
Mean −1.231
Std Dev 1.493
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

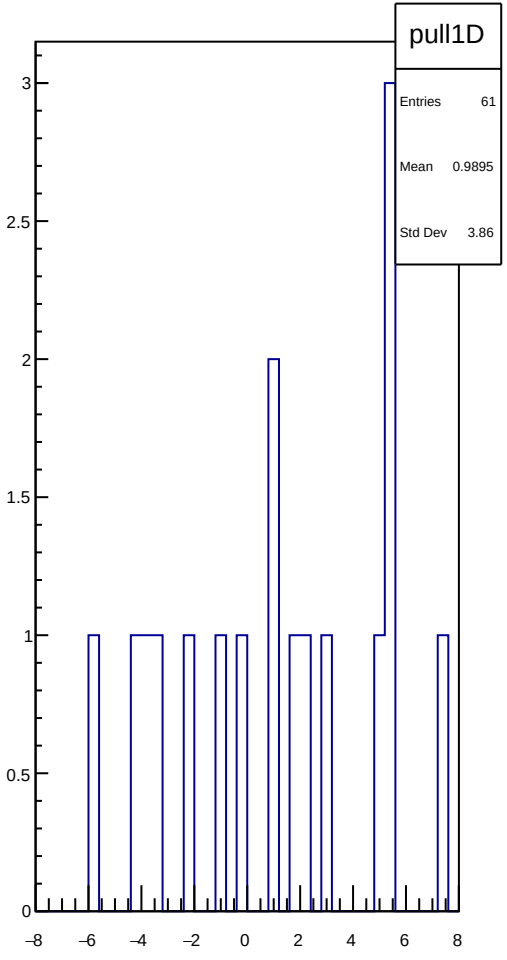

yield_bpm11X_rms vs run
χ² / ndf 8.884e+04 / 60
p0 0.03205 ± 3.079e–05
0.25
0.2
0.15
0.1
0.05

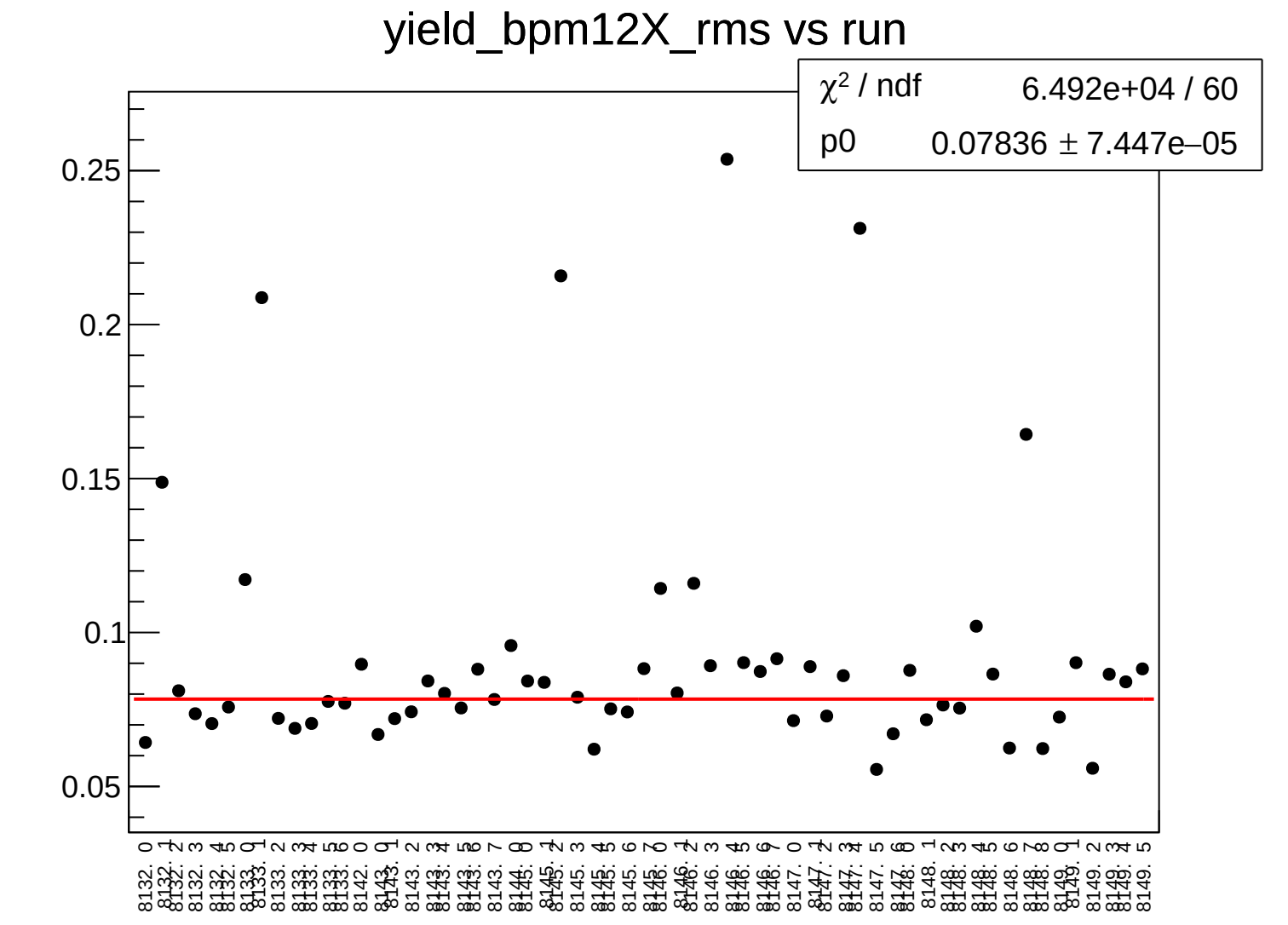

yield_bpm11Y_mean vs run
χ² / ndf 4.792e+08 / 60
p0 0.4023 ± 1.367e−05
pull
Entries 61
Mean −73.63
Std Dev 96.07

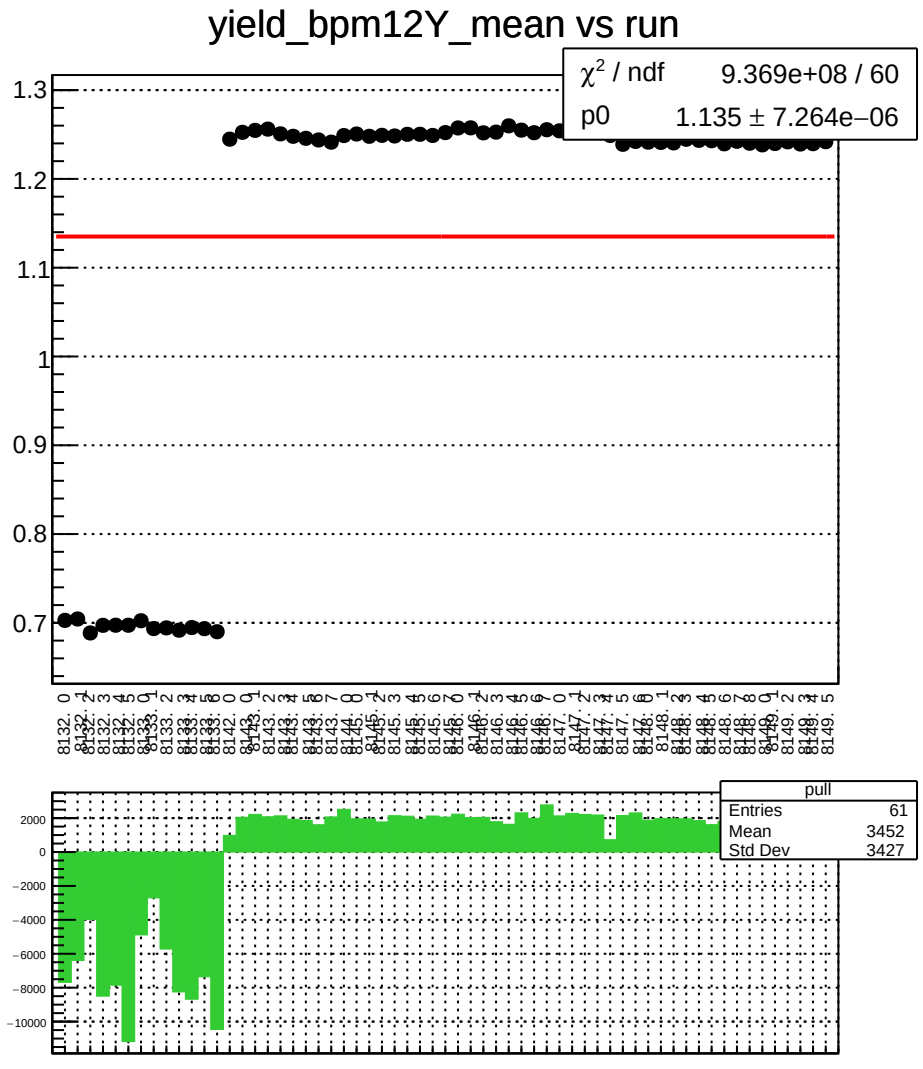

pull1D
Entries 61
Mean 0
Std Dev 0

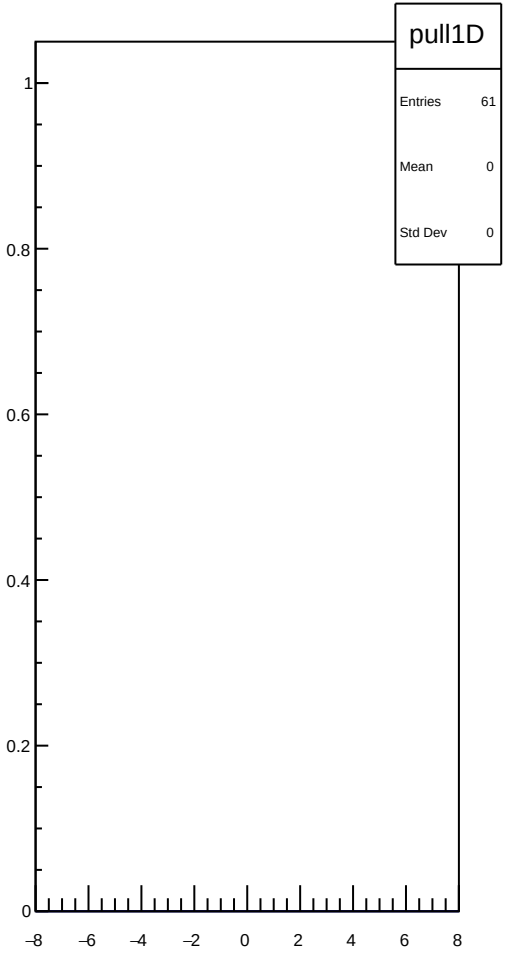

yield_bpm11Y_rms vs run
χ² / ndf 1.048e+05 / 60
p0 0.00999 ± 9.669e–06
0.25
0.2
0.15
0.1
0.05

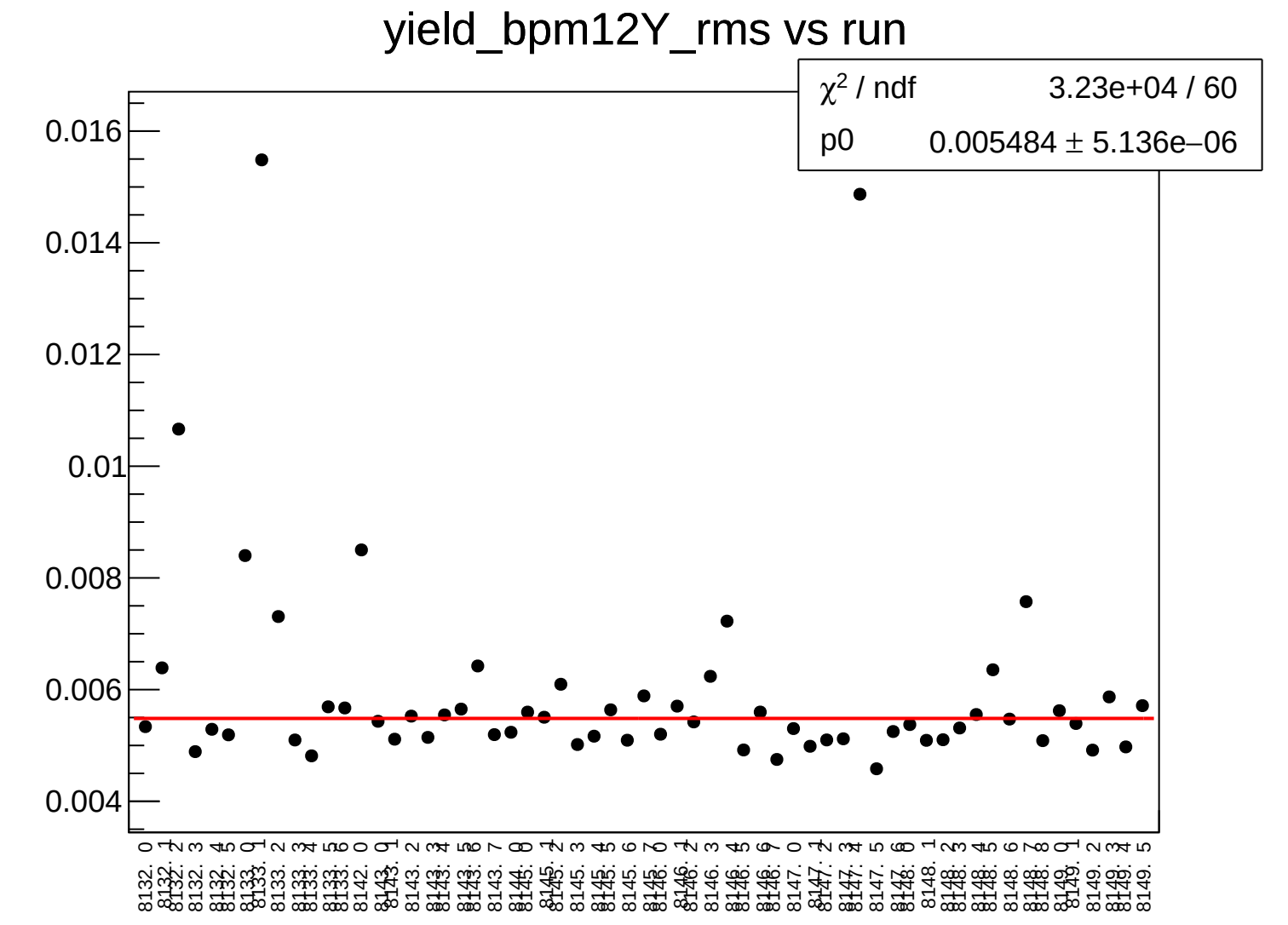

yield_bpm12X_mean vs run
χ² / ndf 1.316e+05 / 60
p0 −1.388 ± 0.0001053
pull
Entries 61
Mean 1390
Std Dev 1363

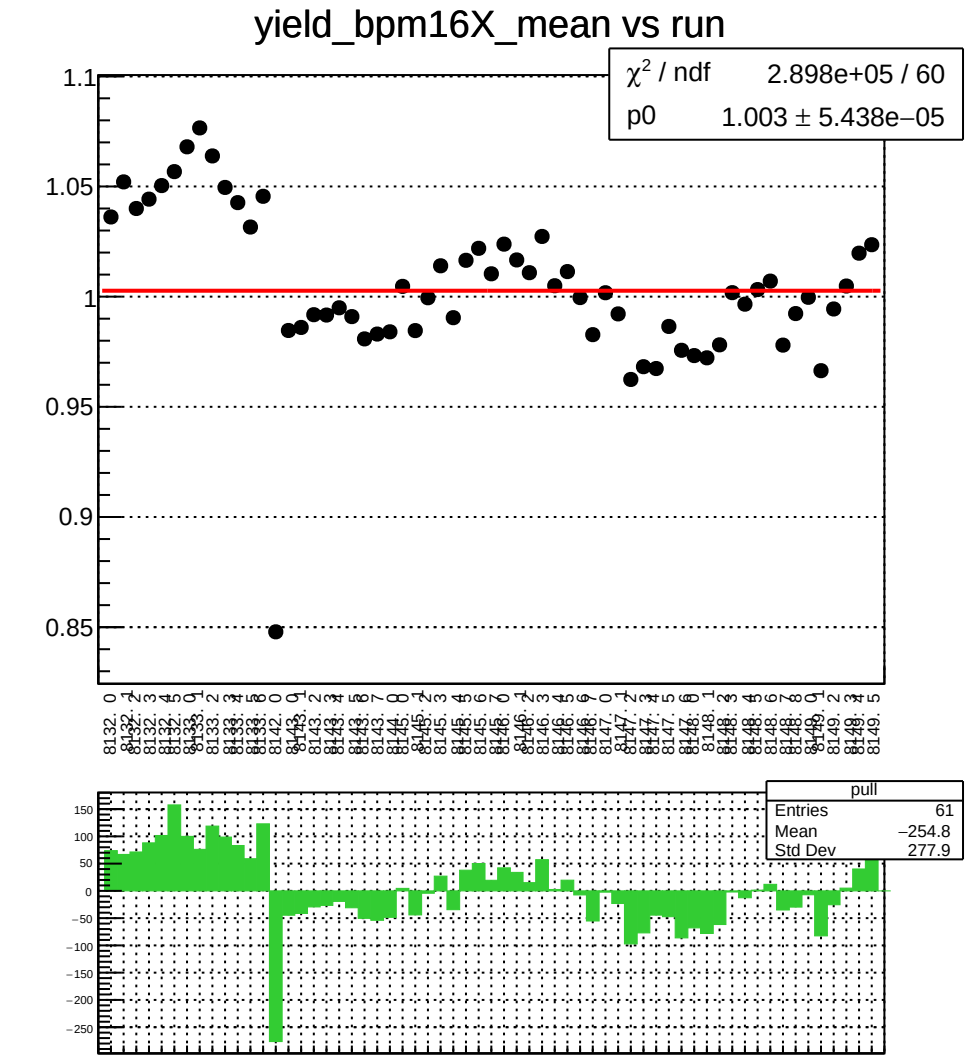

pull1D
Entries 61
Mean 0.9895
Std Dev 3.86

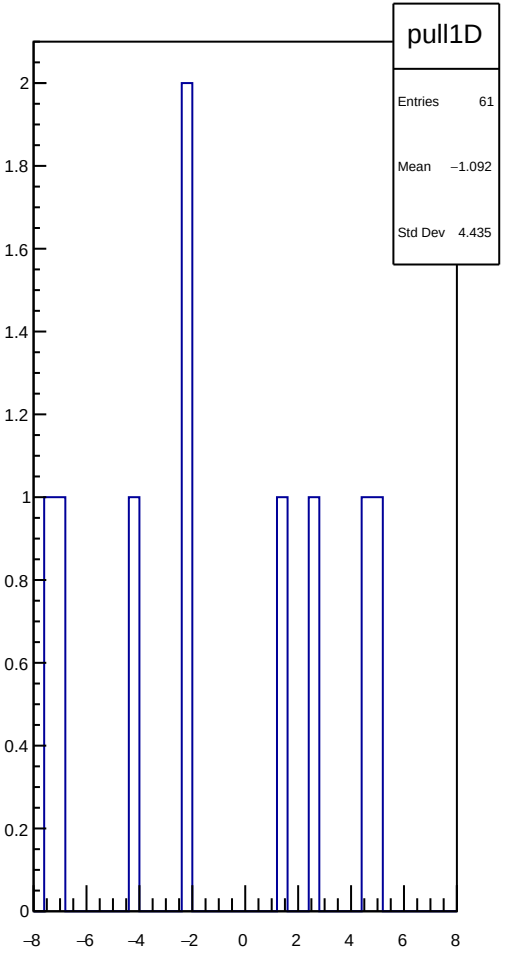

yield_bpm12X_rms vs run
χ² / ndf 6.492e+04 / 60
p0 0.07836 ± 7.447e–05
0.25
0.2
0.15
0.1
0.05

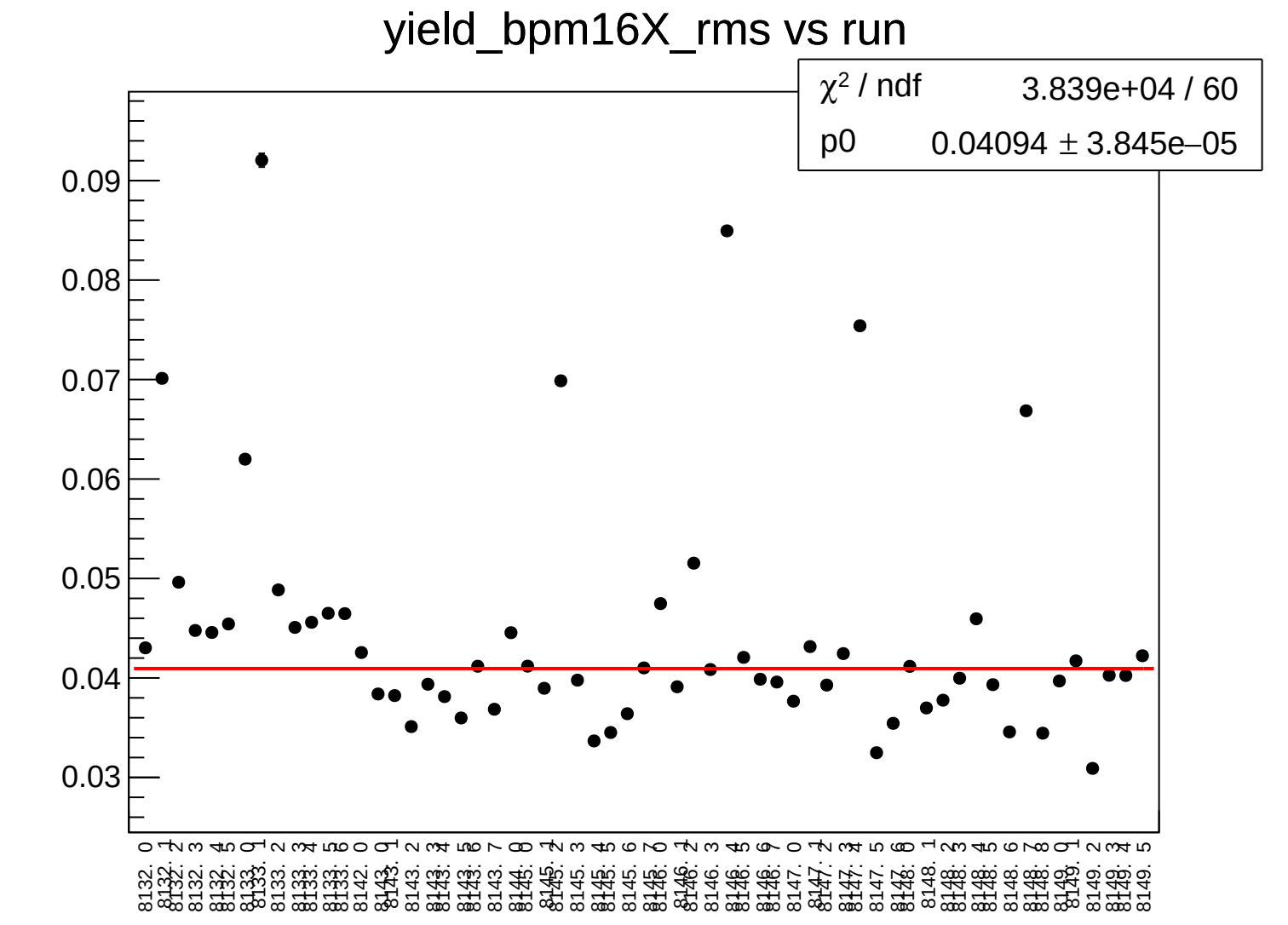

yield_bpm12Y_mean vs run
χ² / ndf 9.369e+08 / 60
p0 1.135 ± 7.264e−06
1.3
1.2
1.1
1
0.9
0.8
0.7
pull
Entries 61
Mean 3452
Std Dev 3427
2000
0
−2000
−4000
−6000
−8000
−10000

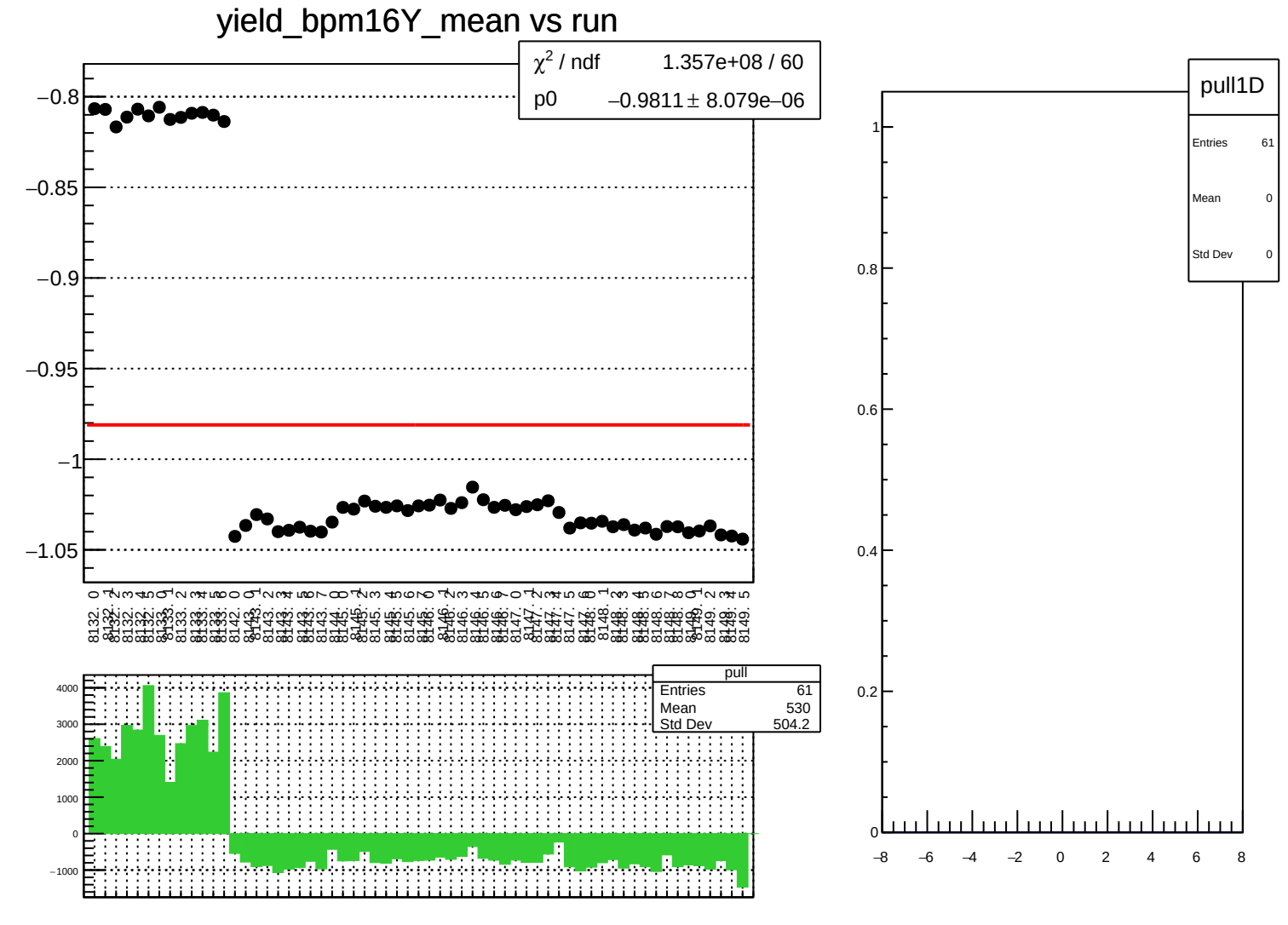

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

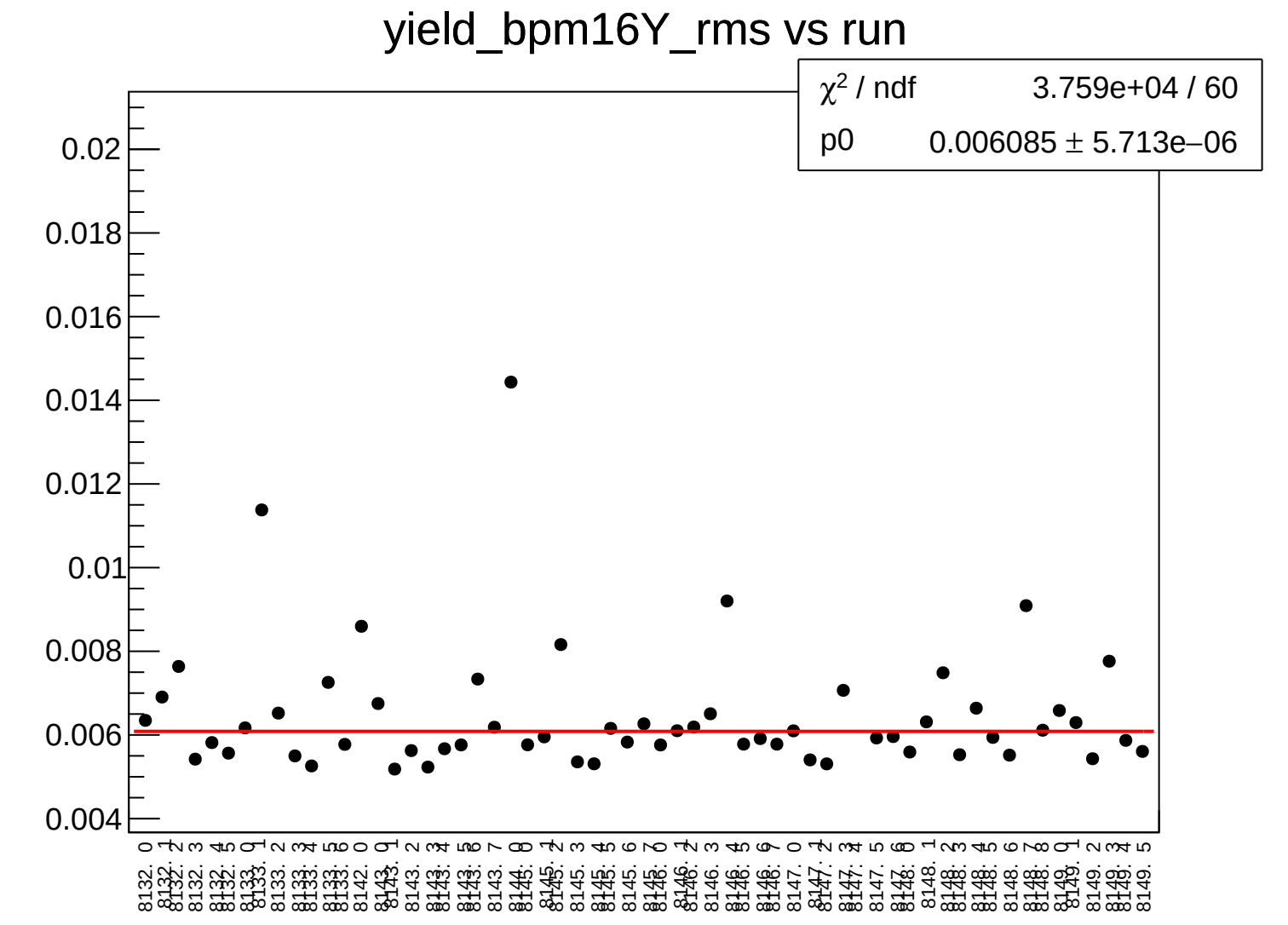

yield_bpm12Y_rms vs run
χ^2 / ndf 3.23e+04 / 60
p0 0.005484 ± 5.136e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

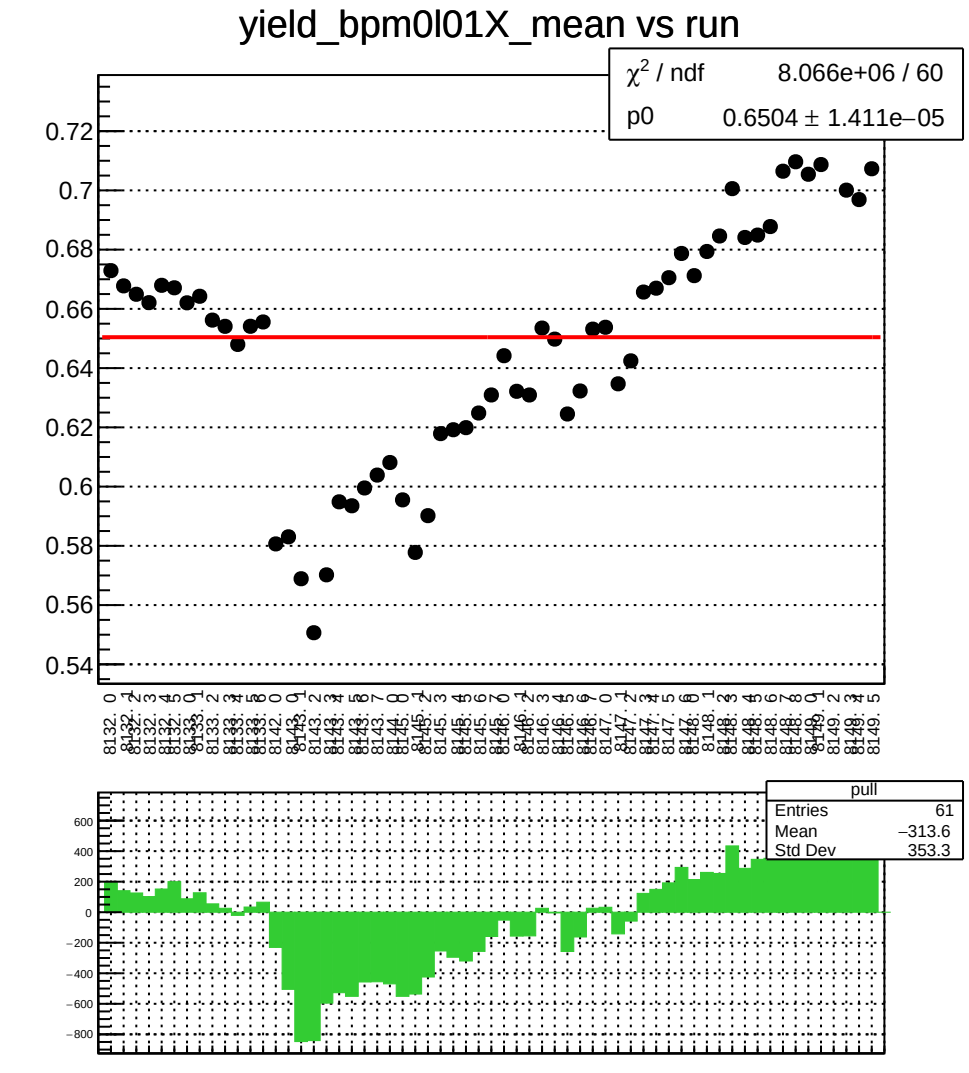

yield_bpm16X_mean vs run
χ² / ndf 2.898e+05 / 60
p0 1.003 ± 5.438e−05
pull
Entries 61
Mean −254.8
Std Dev 277.9

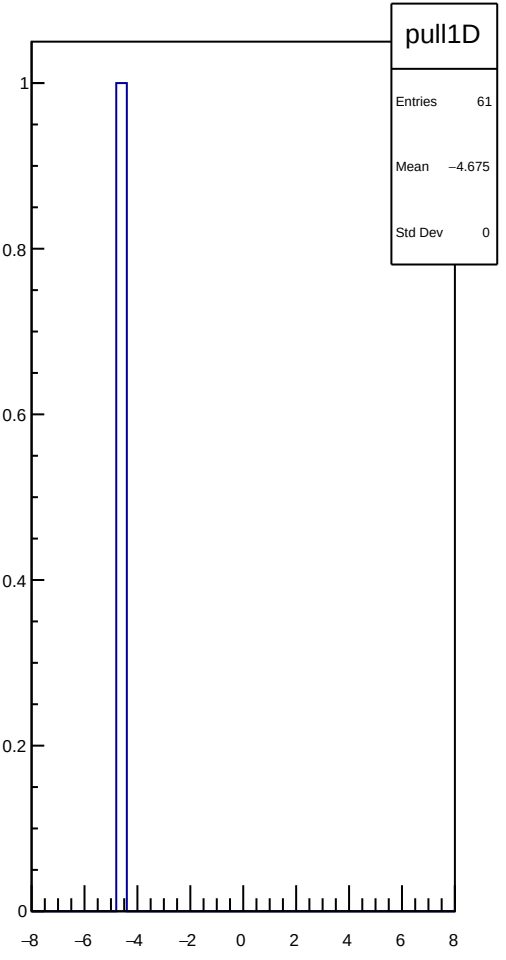

pull1D
Entries 61
Mean −1.092
Std Dev 4.435

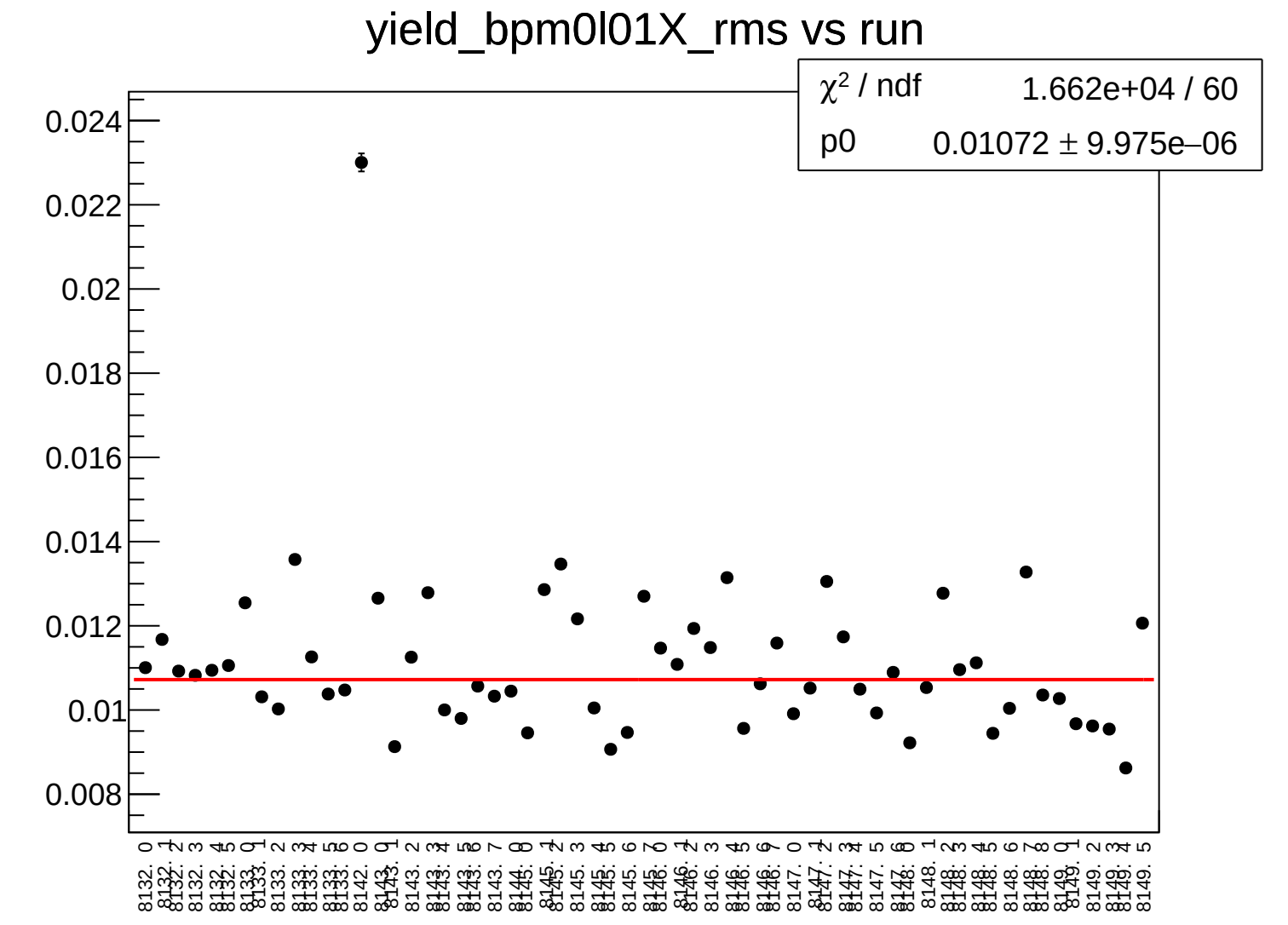

yield_bpm16X_rms vs run
χ² / ndf 3.839e+04 / 60
p0 0.04094 ± 3.845e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03

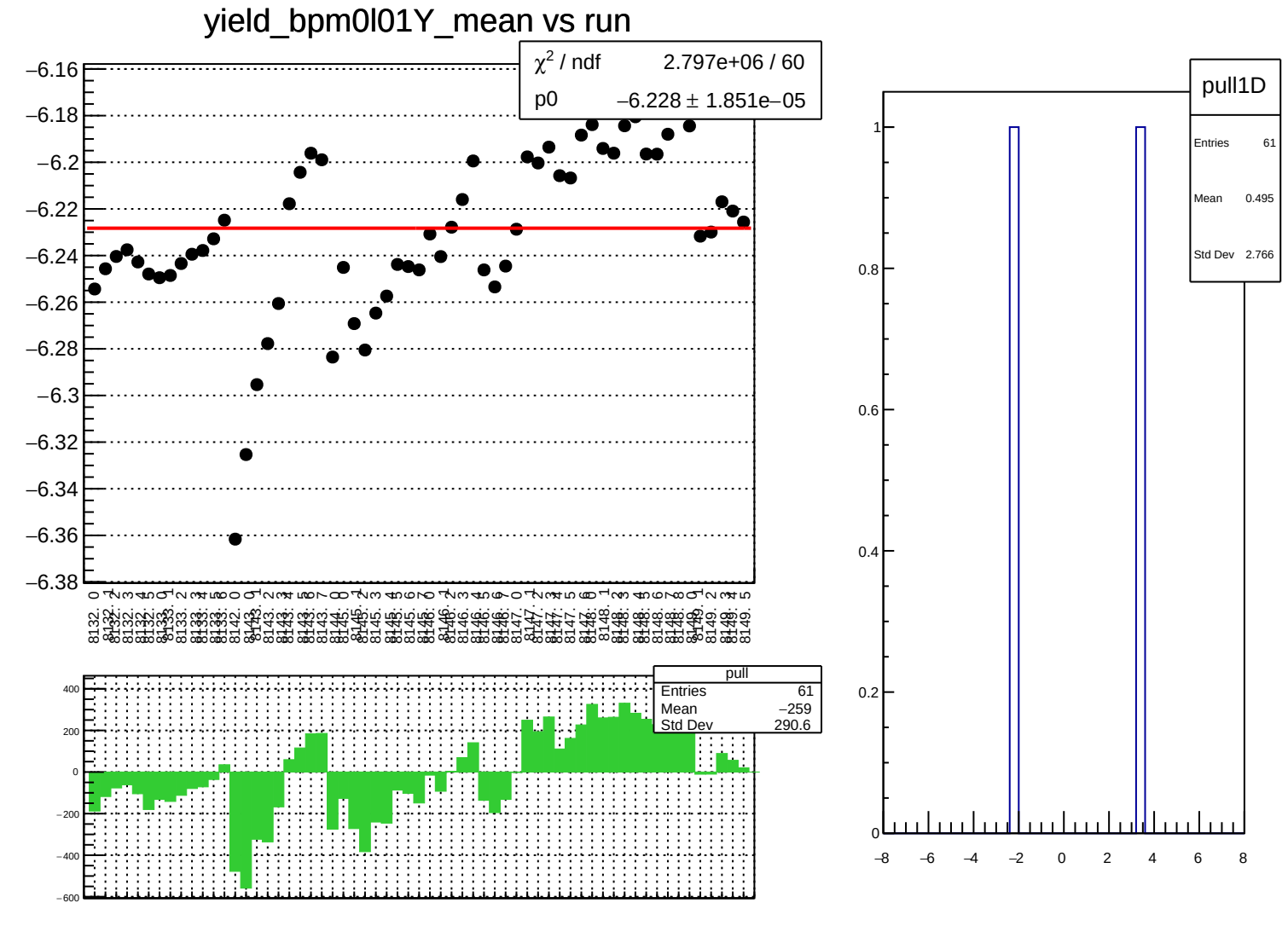

yield_bpm16Y_mean vs run
χ² / ndf 1.357e+08 / 60
p0 −0.9811 ± 8.079e−06
pull
Entries 61
Mean 530
Std Dev 504.2
pull1D
Entries 61
Mean 0
Std Dev 0

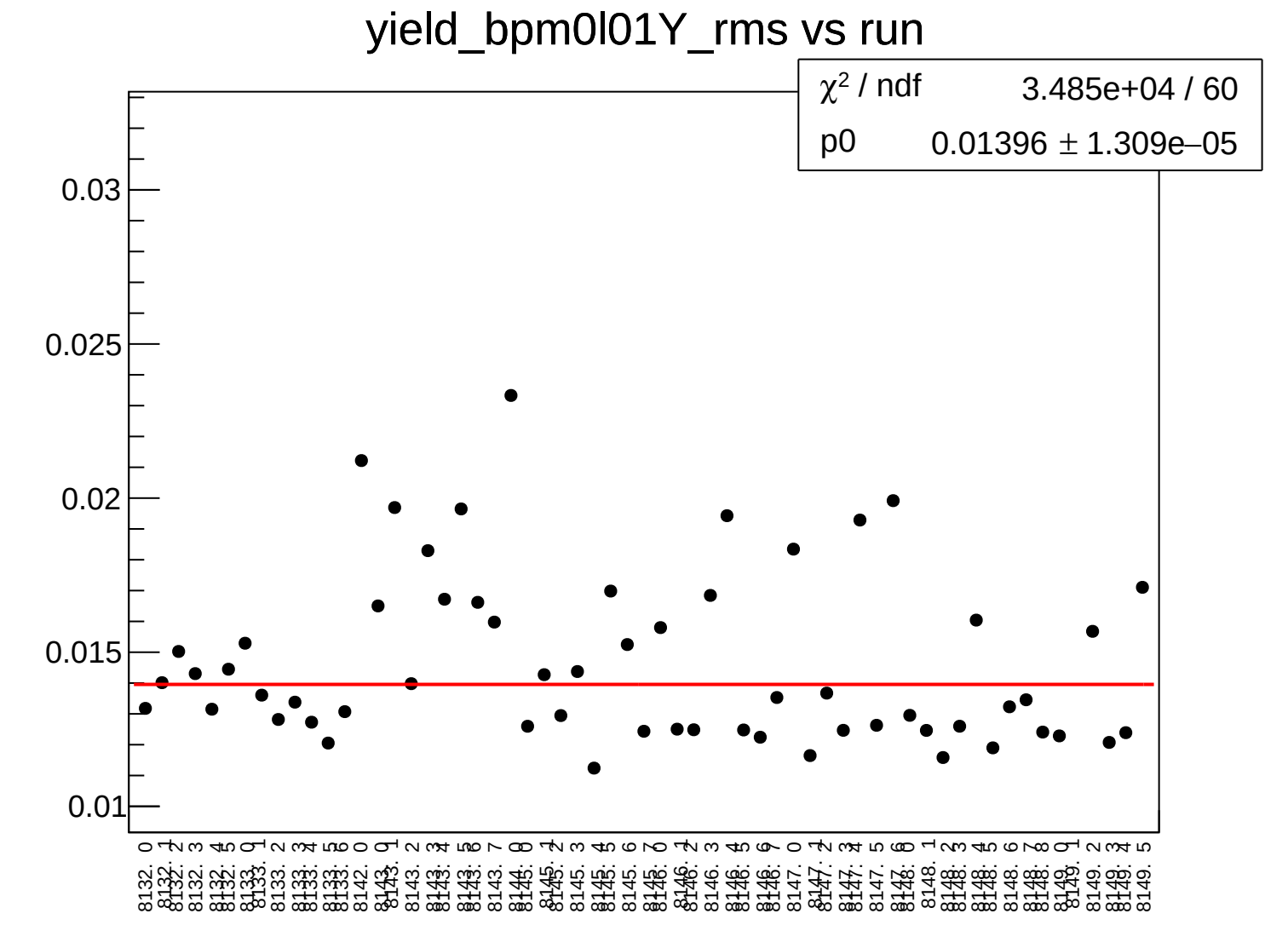

yield_bpm16Y_rms vs run
χ² / ndf 3.759e+04 / 60
p0 0.006085 ± 5.713e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

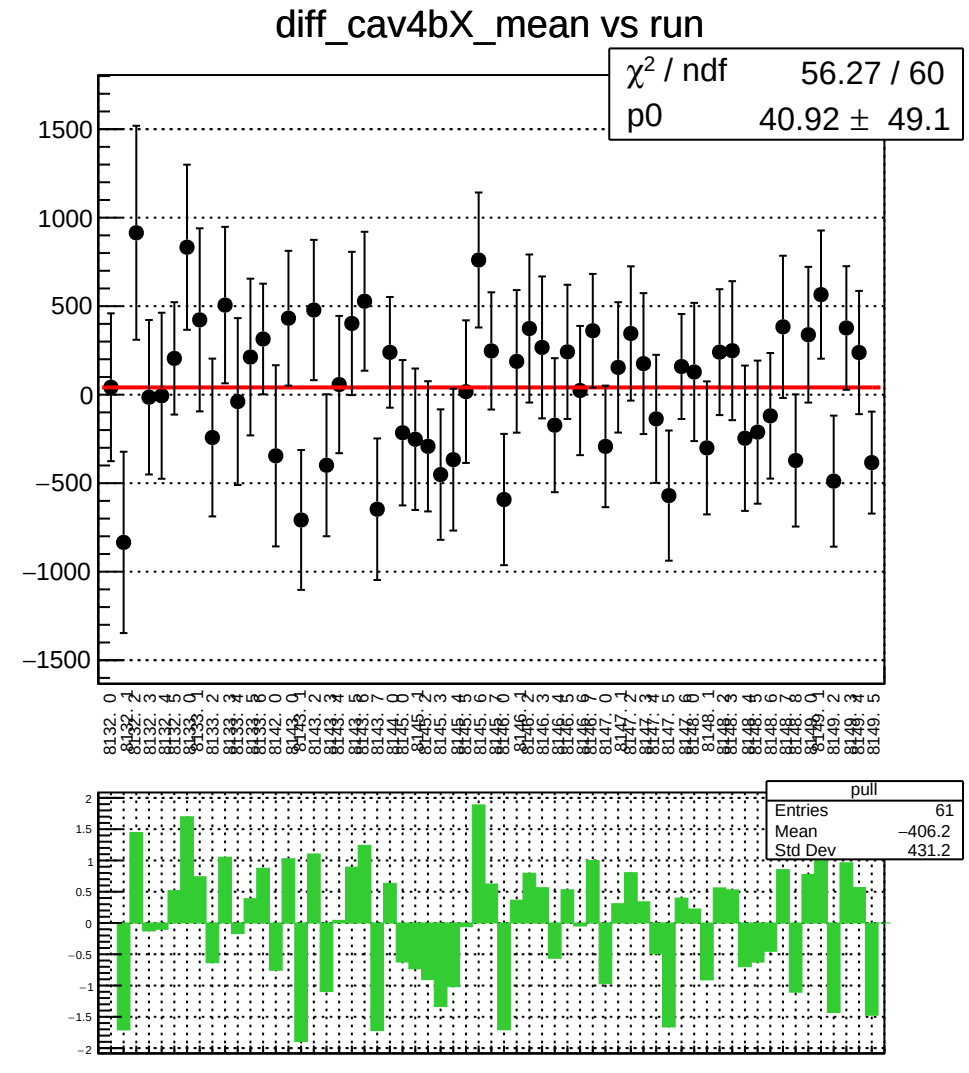

yield_bpm0l01X_mean vs run
χ² / ndf 8.066e+06 / 60
p0 0.6504 ± 1.411e−05
0.72
0.7
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54
pull
Entries 61
Mean −313.6
Std Dev 353.3
600
400
200
0
−200
−400
−600
−800

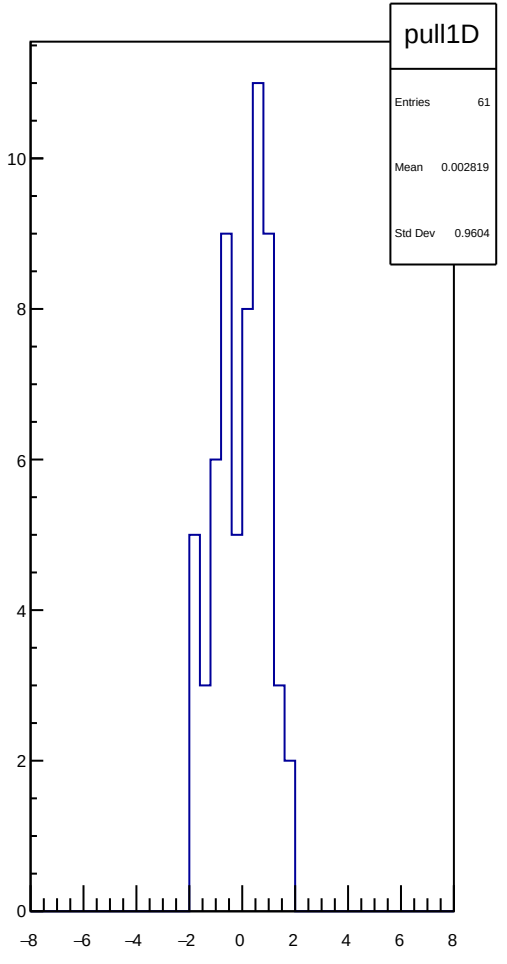

pull1D
Entries 61
Mean −4.675
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

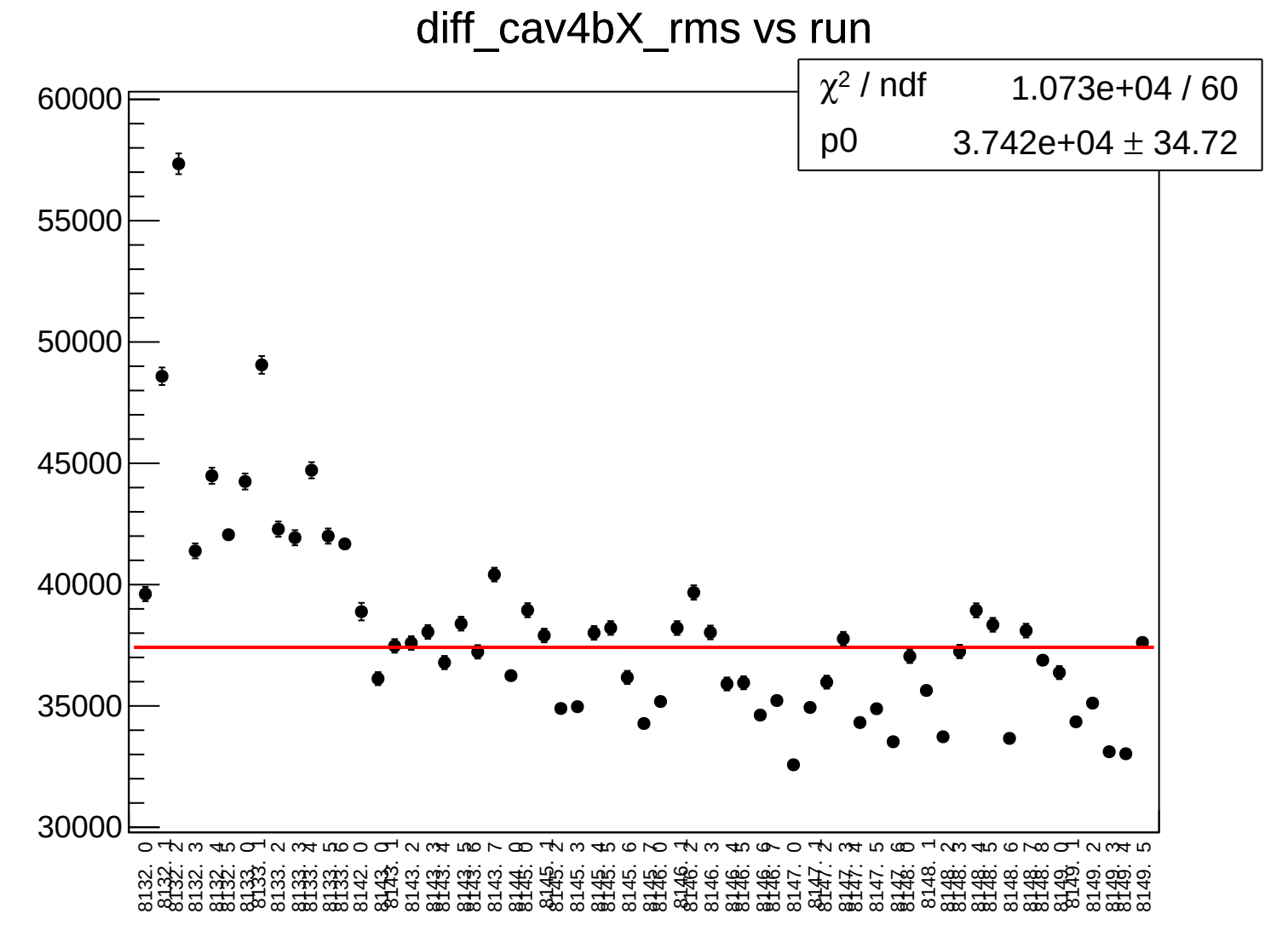

yield_bpm0l01X_rms vs run
χ² / ndf 1.662e+04 / 60
p0 0.01072 ± 9.975e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

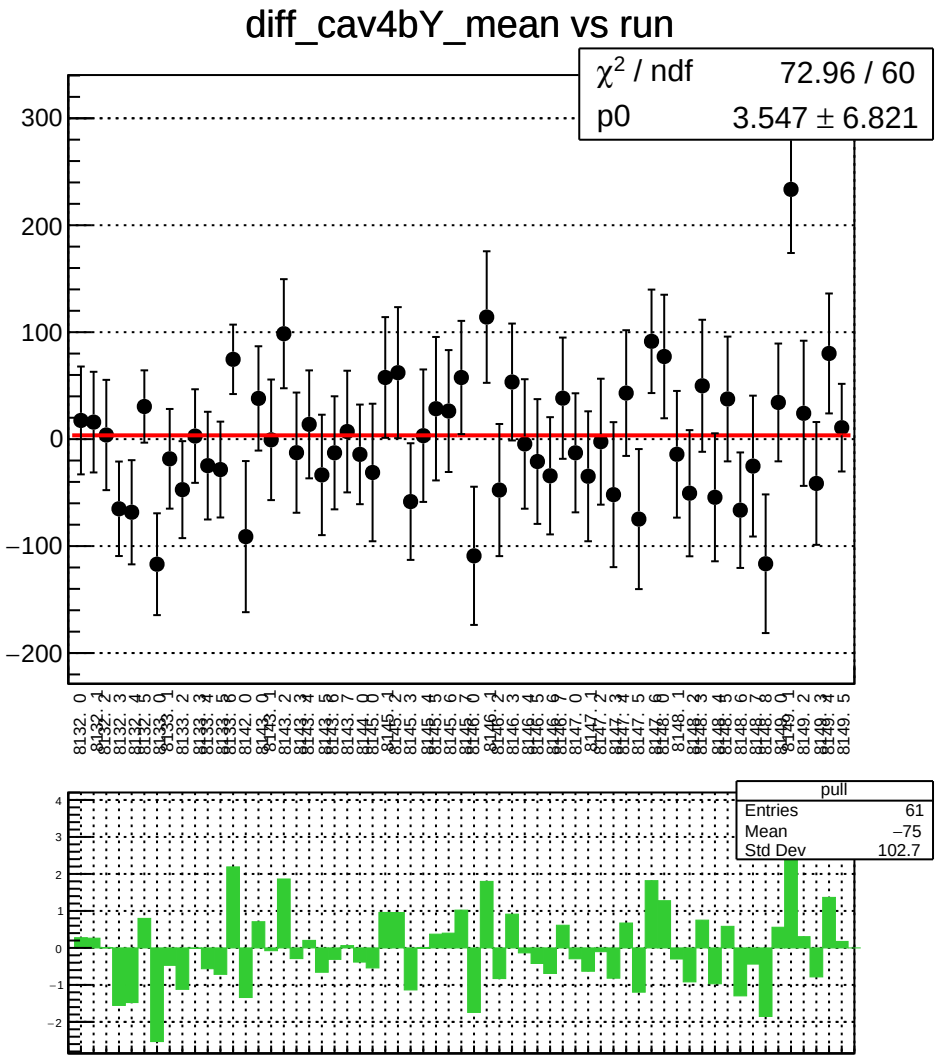

yield_bpm0l01Y_mean vs run
χ² / ndf 2.797e+06 / 60
p0 −6.228 ± 1.851e−05
pull
Entries 61
Mean −259
Std Dev 290.6
pull1D
Entries 61
Mean 0.495
Std Dev 2.766

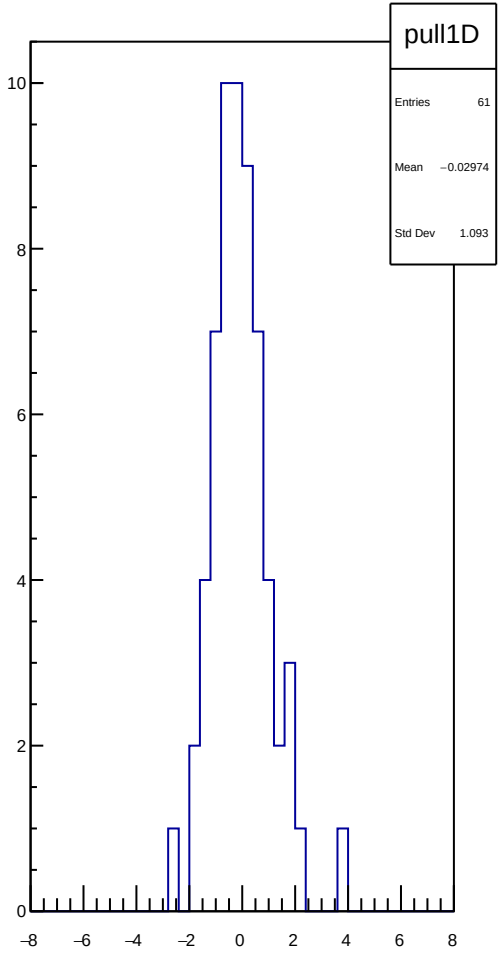

yield_bpm0l01Y_rms vs run
χ² / ndf 3.485e+04 / 60
p0 0.01396 ± 1.309e−05
0.03
0.025
0.02
0.015
0.01

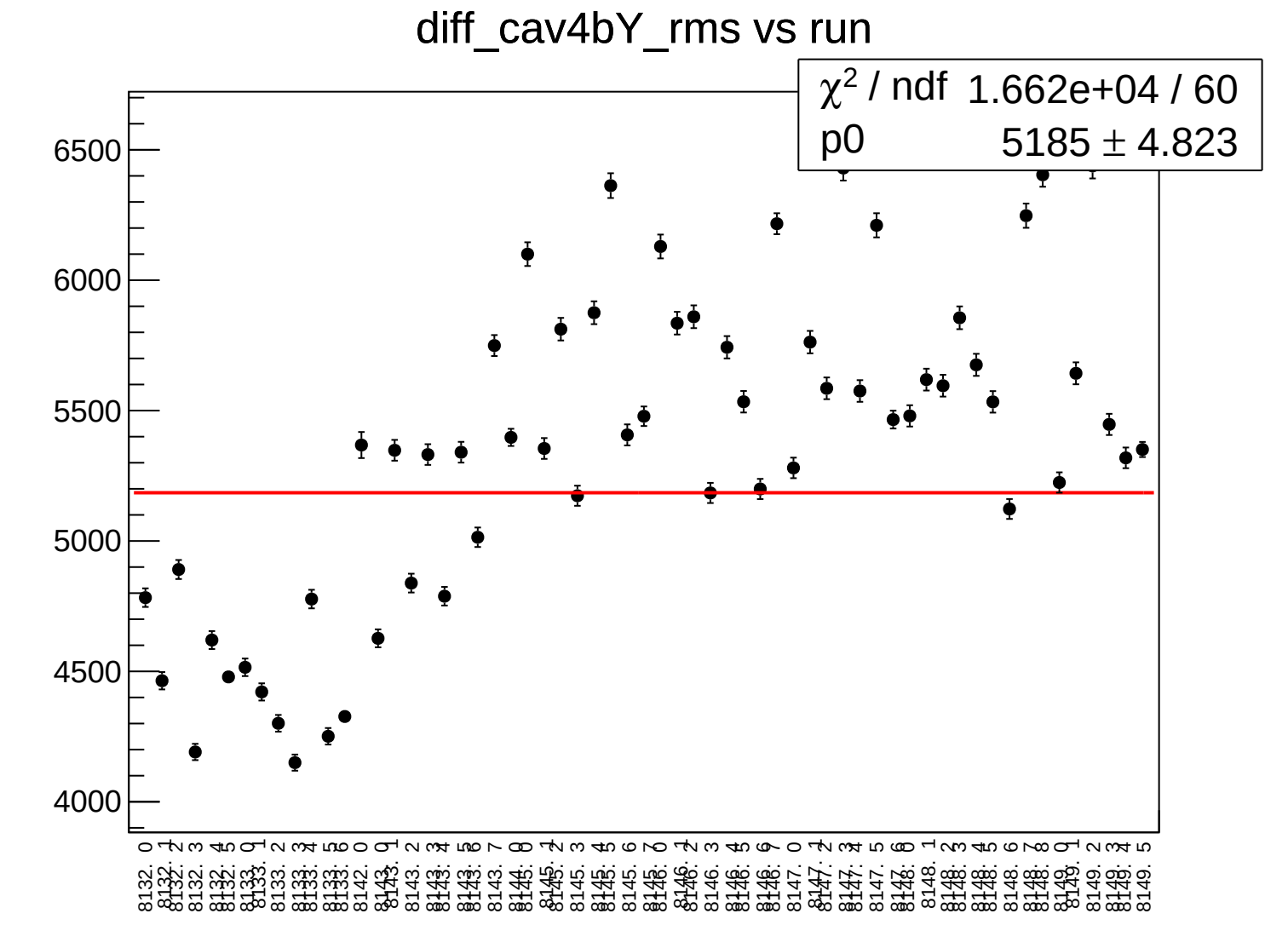

diff_cav4bX_mean vs run
χ² / ndf 56.27 / 60
p0 40.92 ± 49.1
pull
Entries 61
Mean −406.2
Std Dev 431.2

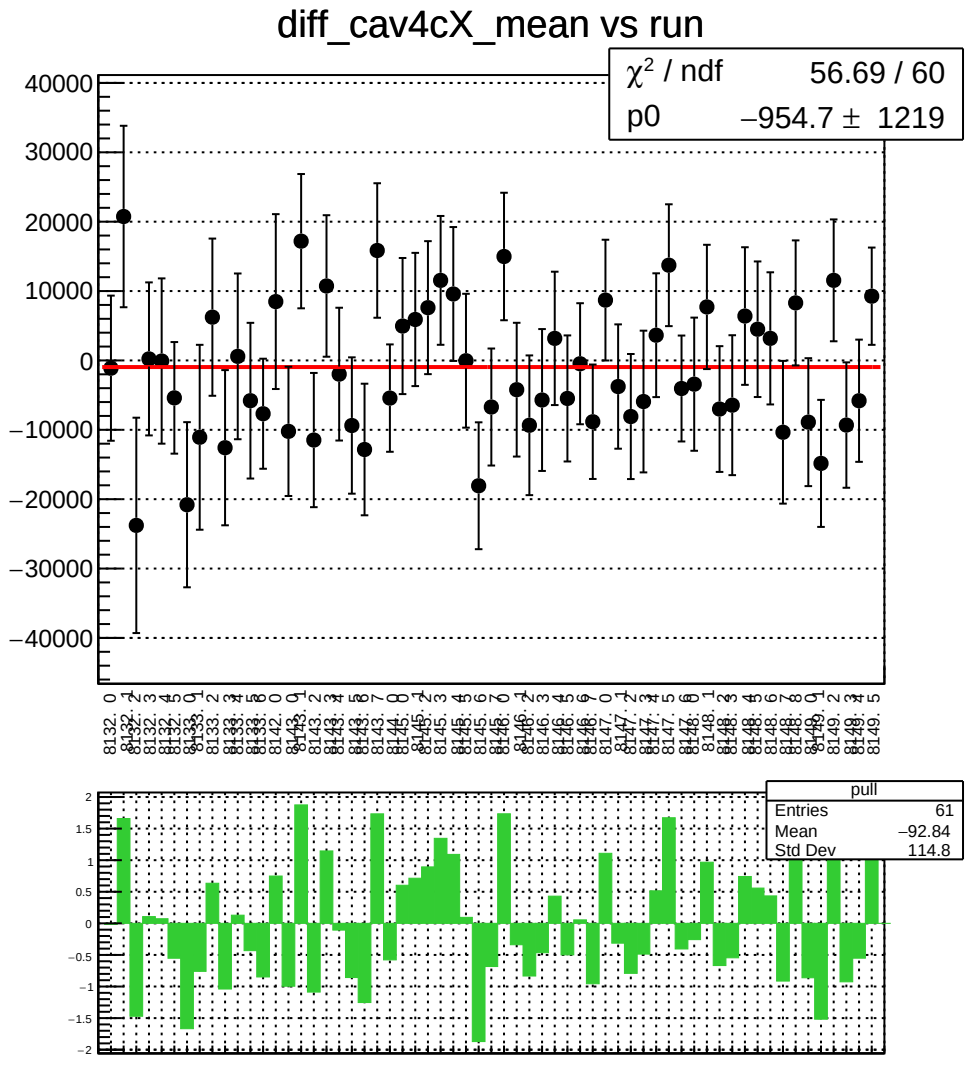

pull1D
Entries 61
Mean 0.002819
Std Dev 0.9604

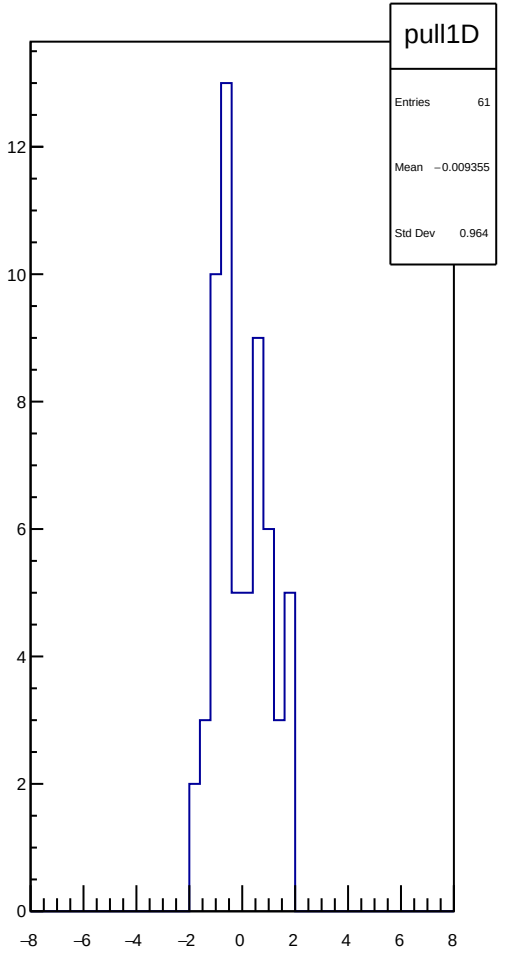

diff_cav4bX_rms vs run
χ² / ndf 1.073e+04 / 60
p0 3.742e+04 ± 34.72
60000
55000
50000
45000
40000
35000
30000

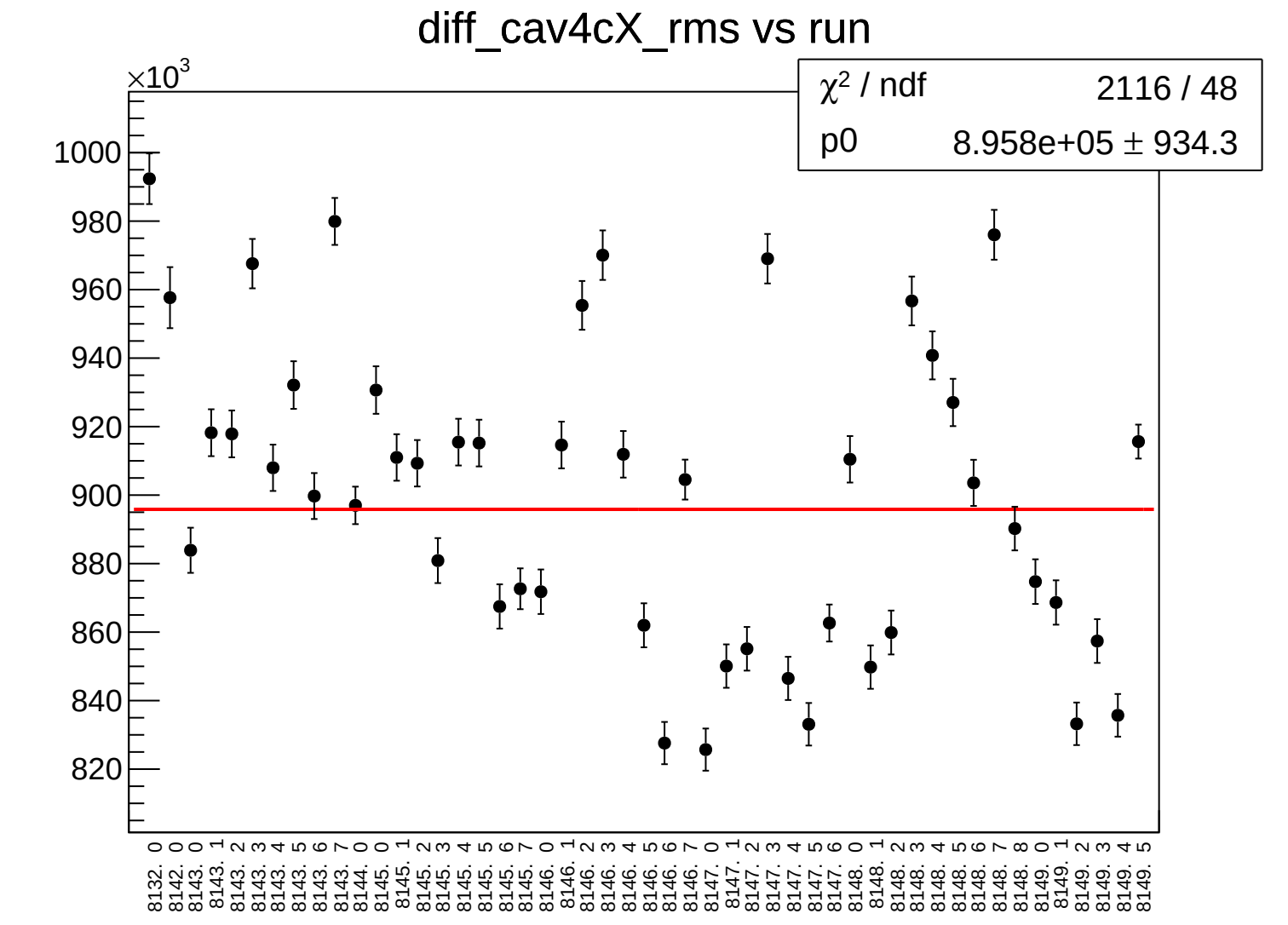

diff_cav4bY_mean vs run
χ² / ndf 72.96 / 60
p0 3.547 ± 6.821
300
200
100
0
−100
−200
pull
Entries 61
Mean −75
Std Dev 102.7
4
3
2
1
0
−1
−2

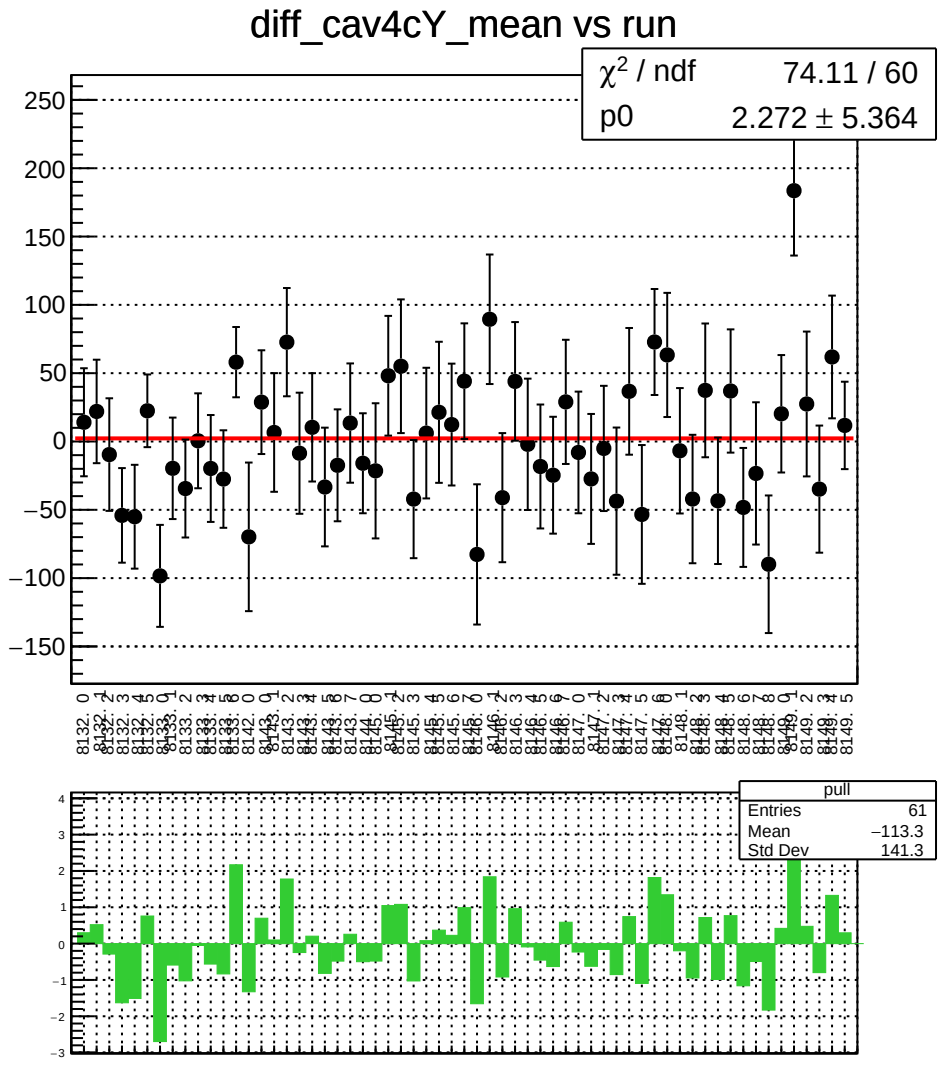

pull1D
Entries 61
Mean −0.02974
Std Dev 1.093
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

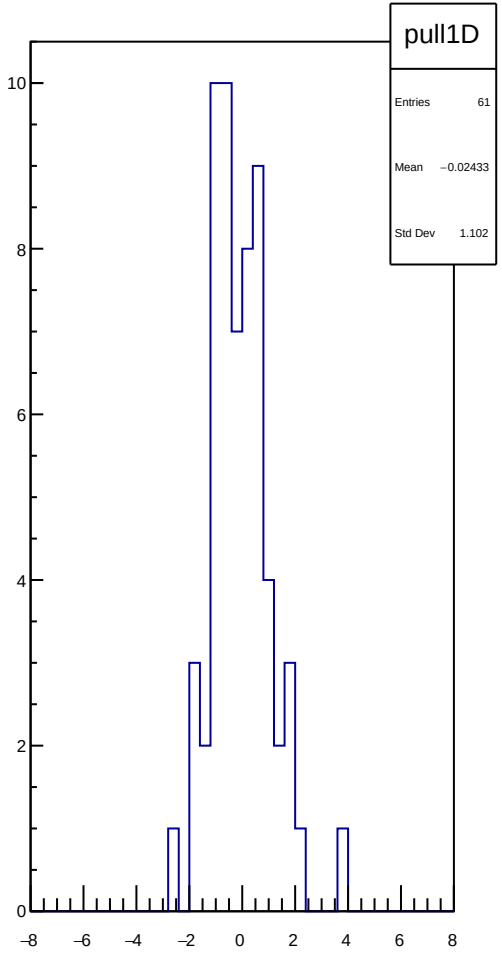

diff_cav4bY_rms vs run
χ² / ndf 1.662e+04 / 60
p0 5185 ± 4.823
6500
6000
5500
5000
4500
4000

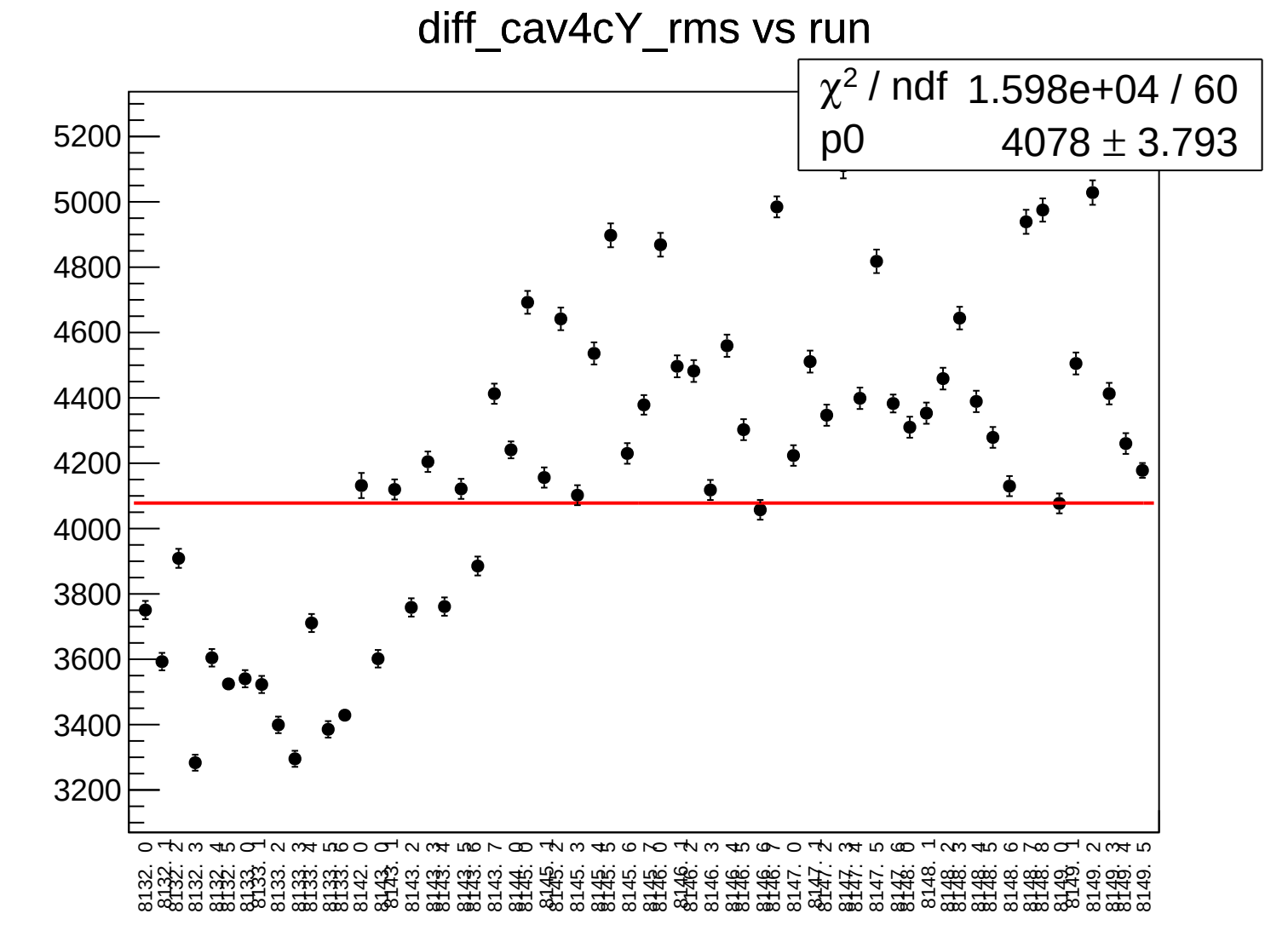

diff_cav4cX_mean vs run
χ² / ndf 56.69 / 60
p0 −954.7 ± 1219
pull
Entries 61
Mean −92.84
Std Dev 114.8

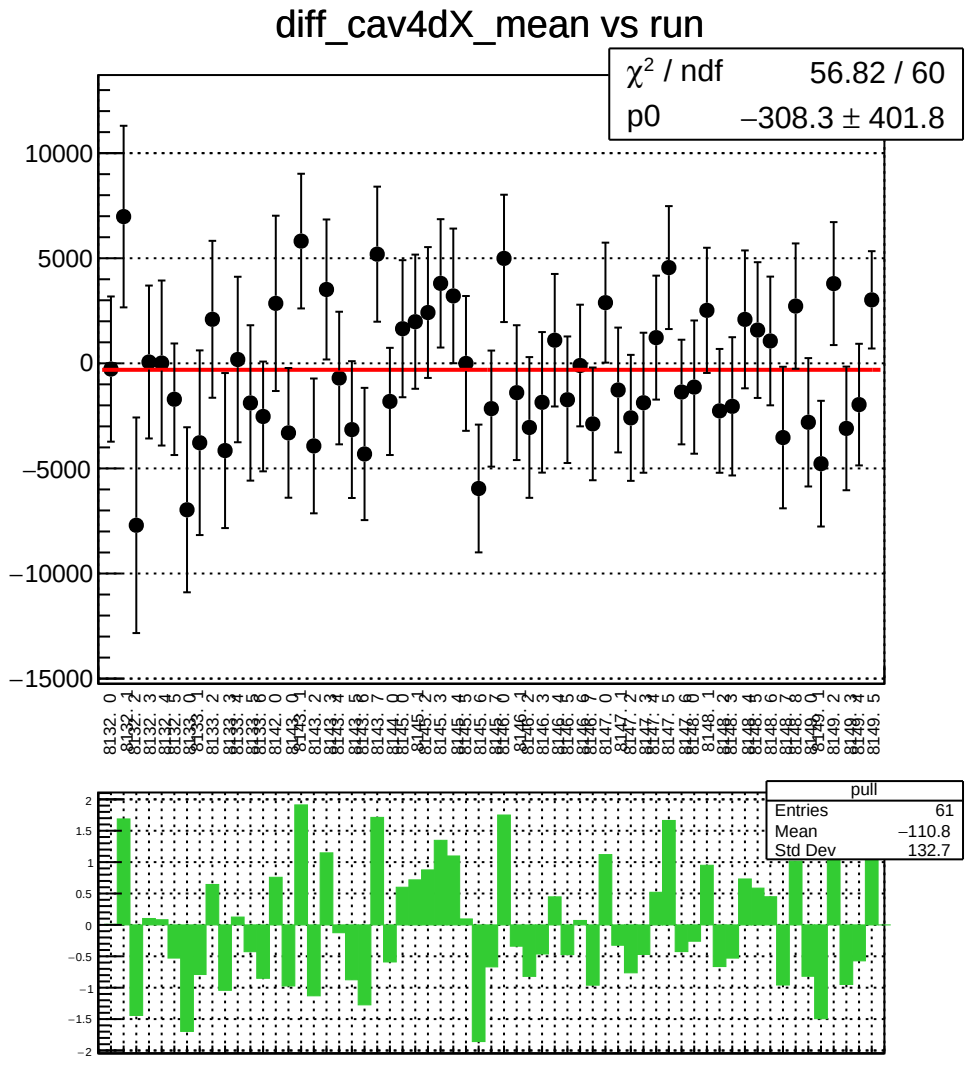

pull1D
Entries 61
Mean −0.009355
Std Dev 0.964

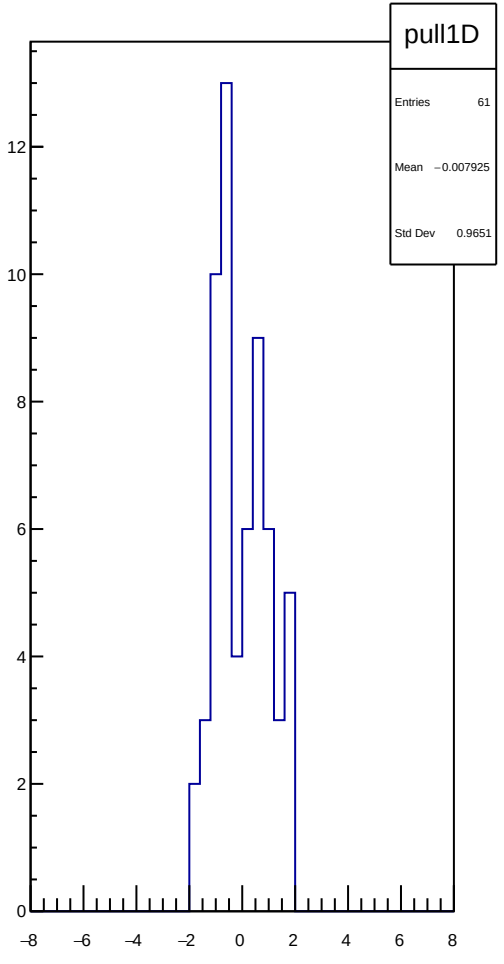

diff_cav4cX_rms vs run
×10^3
χ² / ndf 2116 / 48
p0 8.958e+05 ± 934.3
1000
980
960
940
920
900
880
860
840
820
8132. 0
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

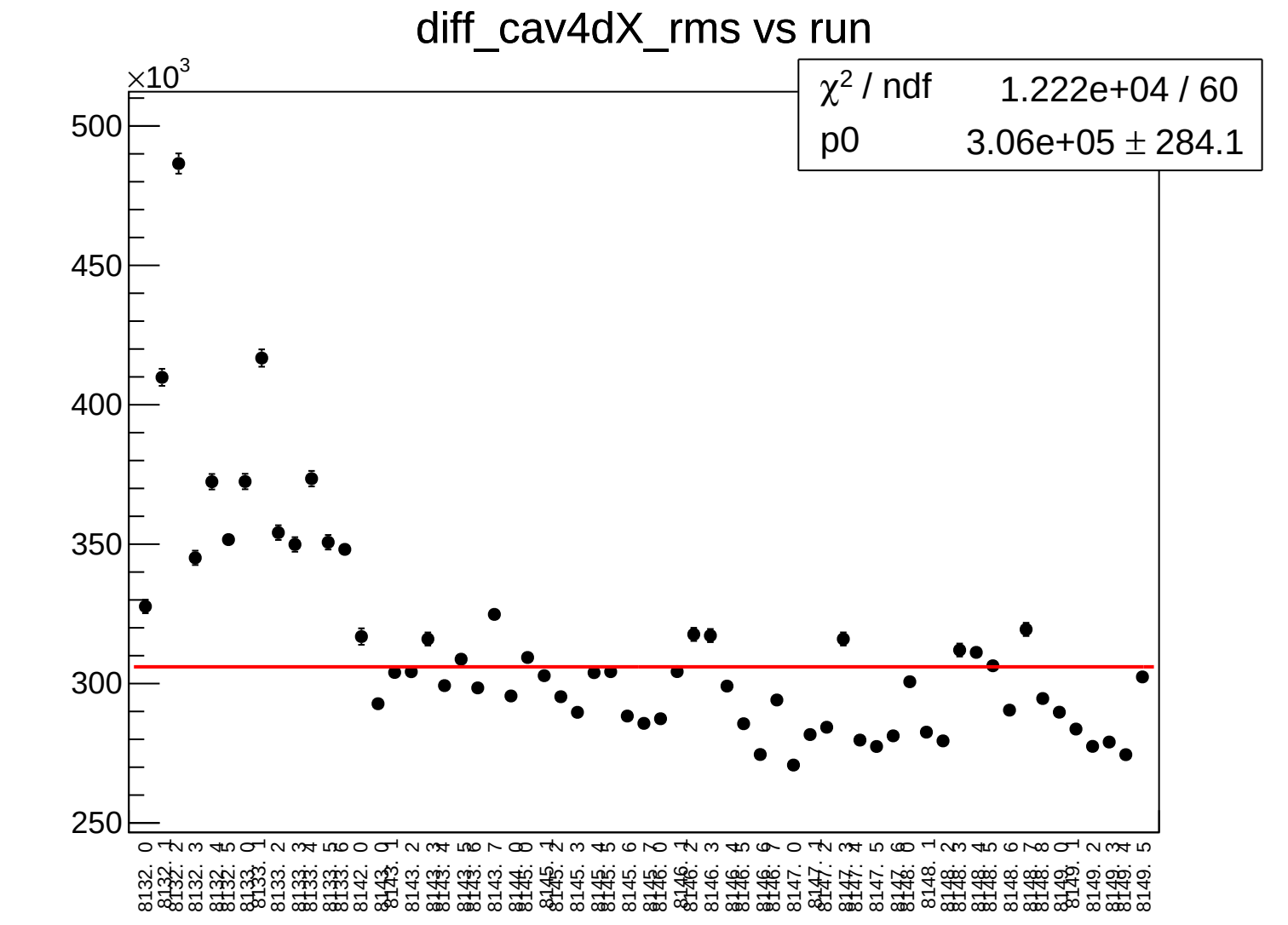

diff_cav4cY_mean vs run
χ^2 / ndf 74.11 / 60
p0 2.272 ± 5.364
pull
Entries 61
Mean −113.3
Std Dev 141.3

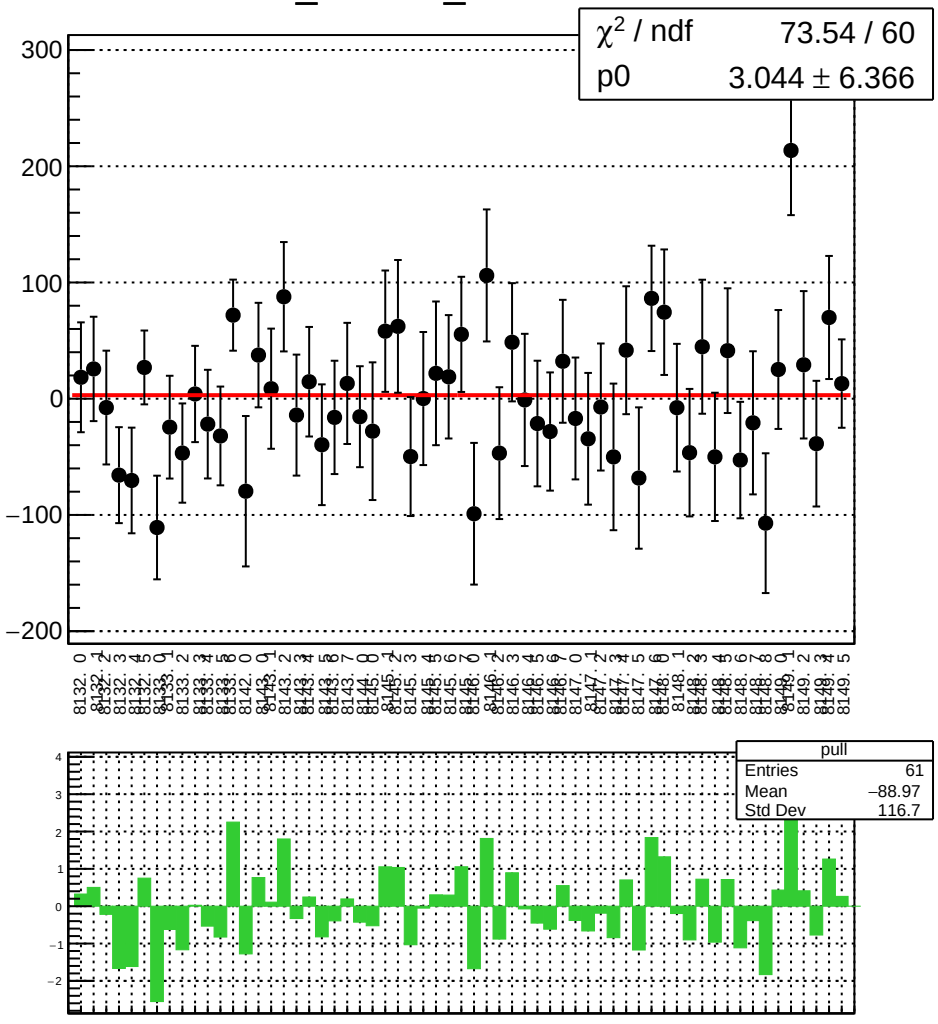

pull1D
Entries 61
Mean −0.02433
Std Dev 1.102

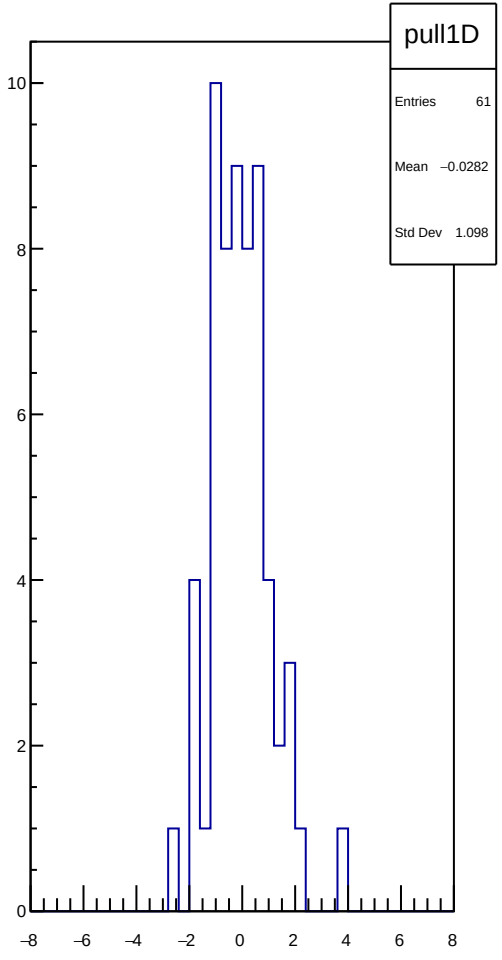

diff_cav4cY_rms vs run
χ² / ndf 1.598e+04 / 60
p0 4078 ± 3.793
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

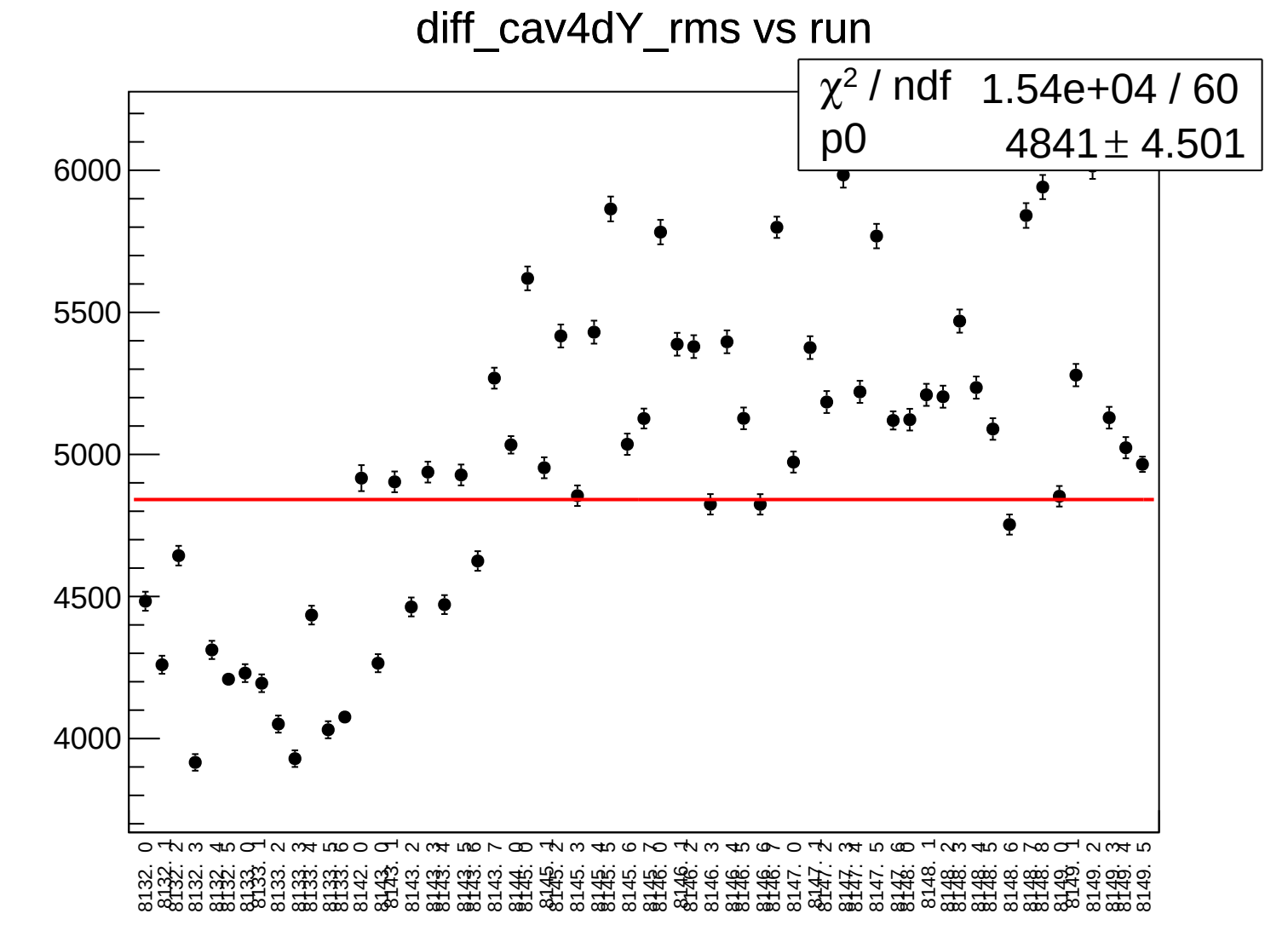

diff_cav4dX_mean vs run
χ² / ndf 56.82 / 60
p0 −308.3 ± 401.8
pull
Entries 61
Mean −110.8
Std Dev 132.7

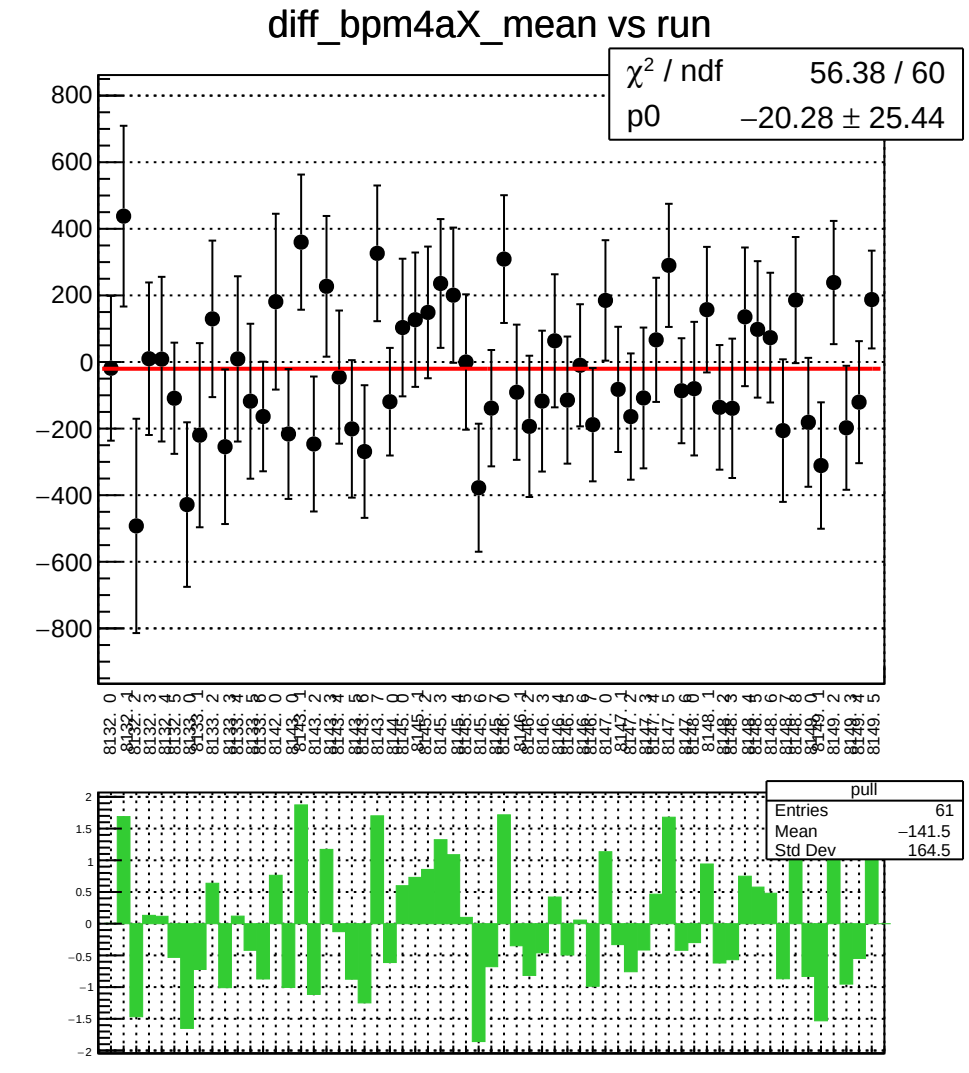

pull1D
Entries 61
Mean −0.007925
Std Dev 0.9651

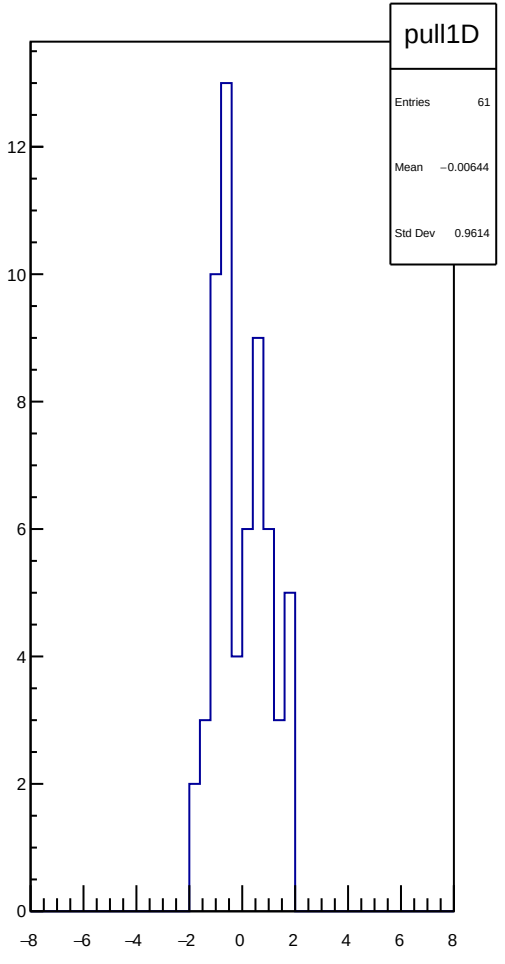

diff_cav4dX_rms vs run
×10^3
χ^2 / ndf 1.222e+04 / 60
p0 3.06e+05 ± 284.1
500
450
400
350
300
250

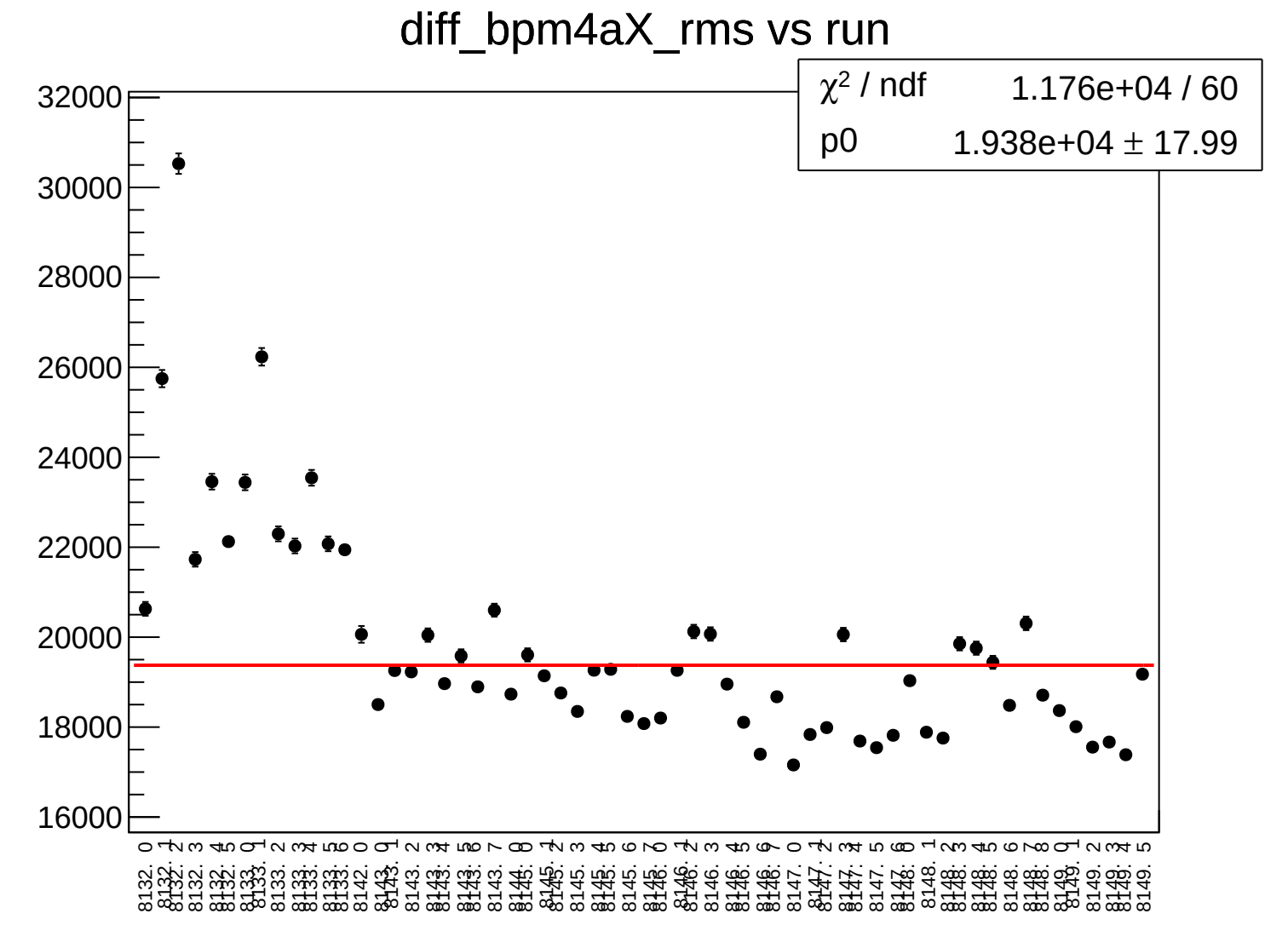

diff_cav4dY_mean vs run
χ² / ndf 73.54 / 60
p0 3.044 ± 6.366
pull
Entries 61
Mean −88.97
Std Dev 116.7

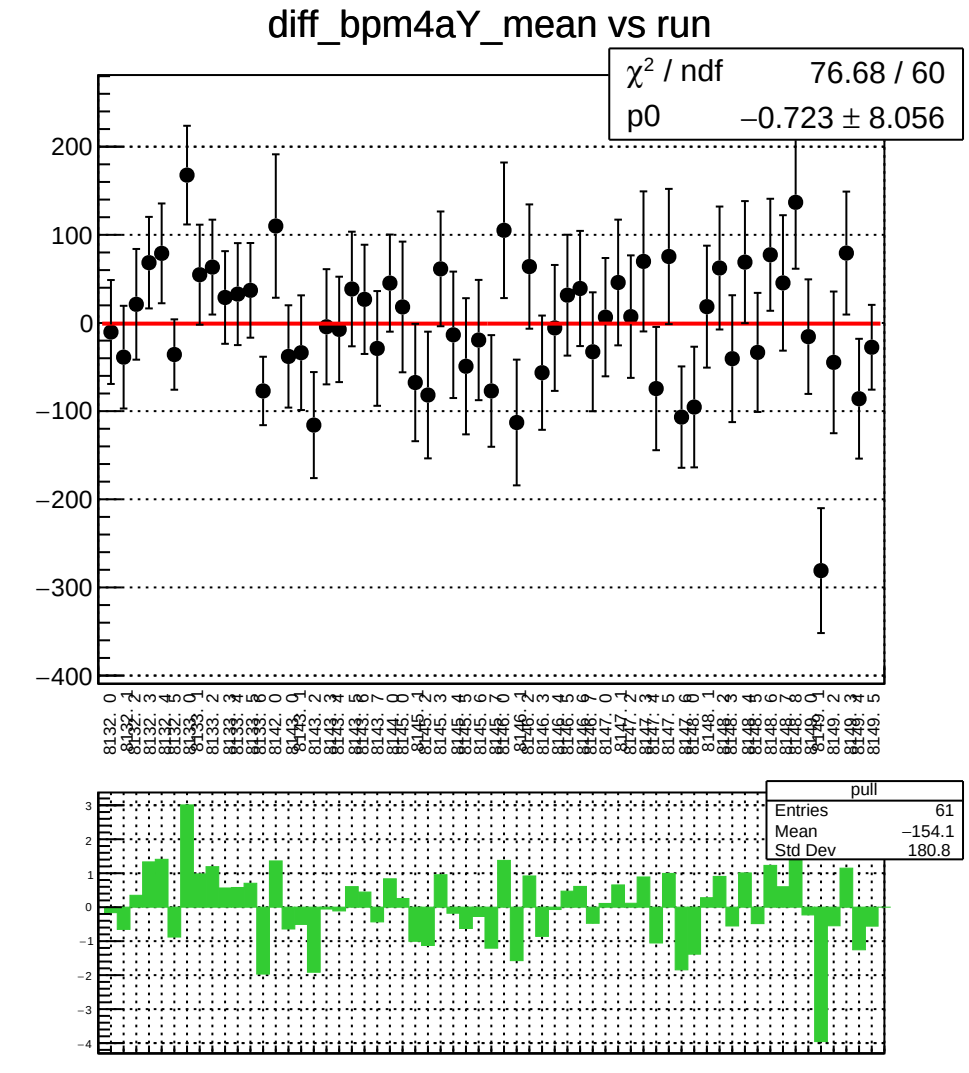

pull1D
Entries 61
Mean −0.0282
Std Dev 1.098

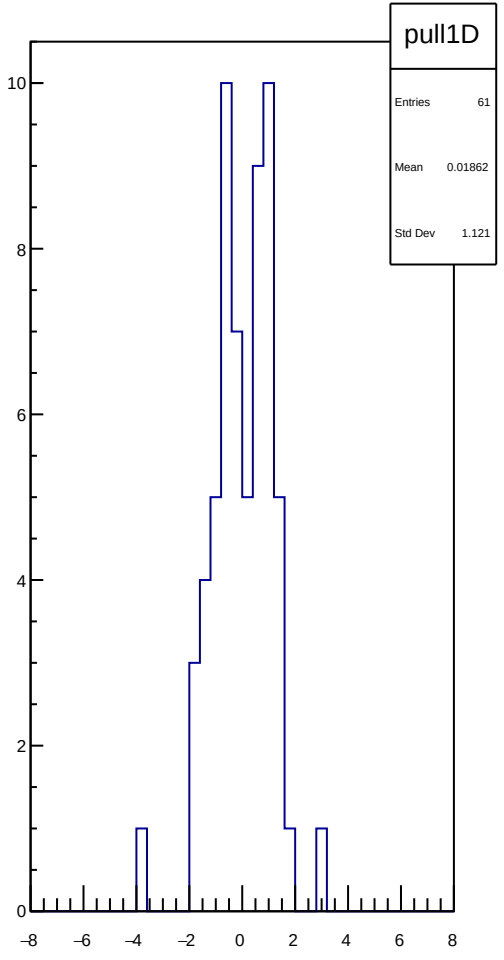

diff_cav4dY_rms vs run
χ² / ndf 1.54e+04 / 60
p0 4841 ± 4.501
6000
5500
5000
4500
4000

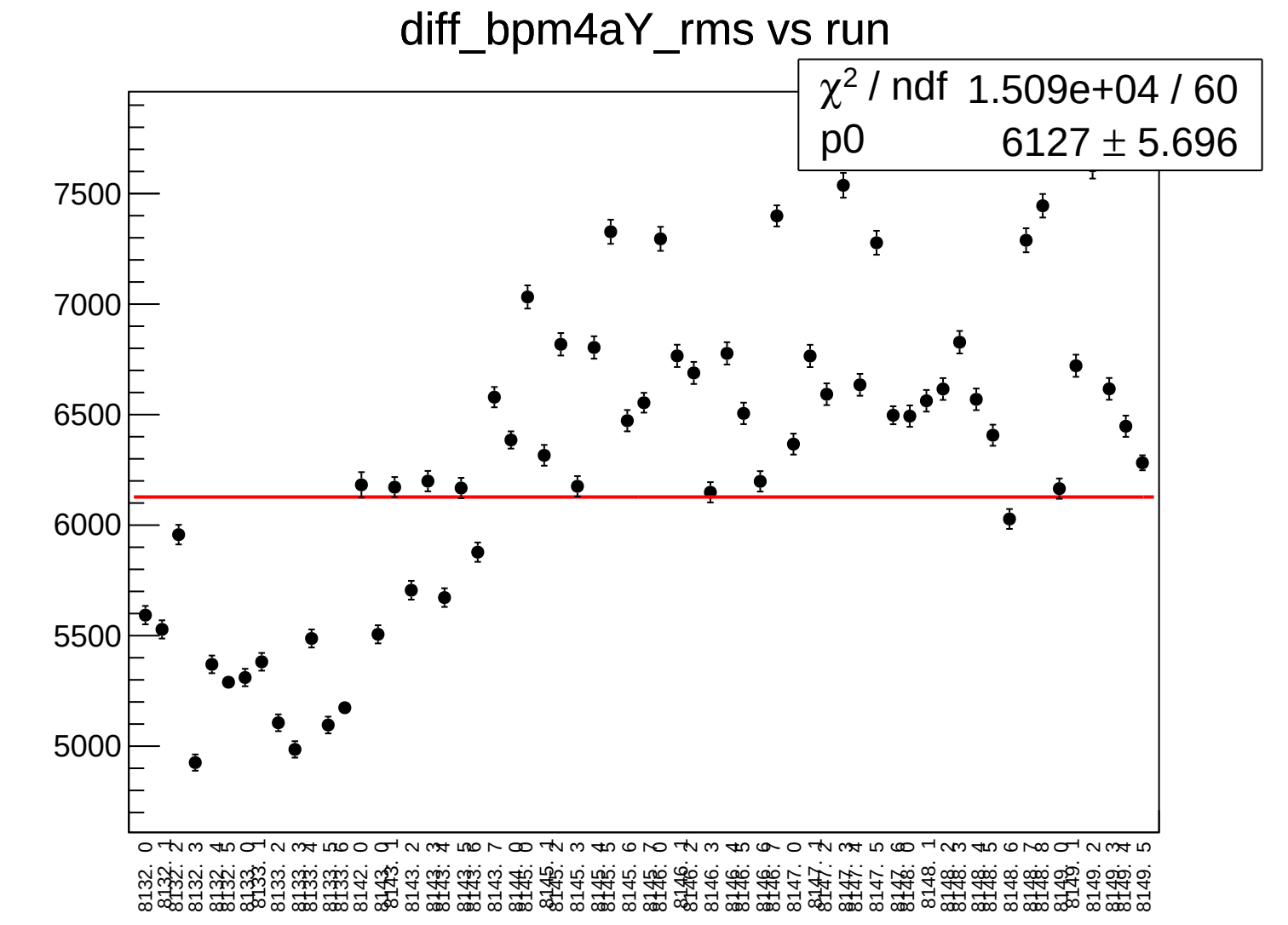

diff_bpm4aX_mean vs run
χ² / ndf 56.38 / 60
p0 −20.28 ± 25.44
pull
Entries 61
Mean −141.5
Std Dev 164.5

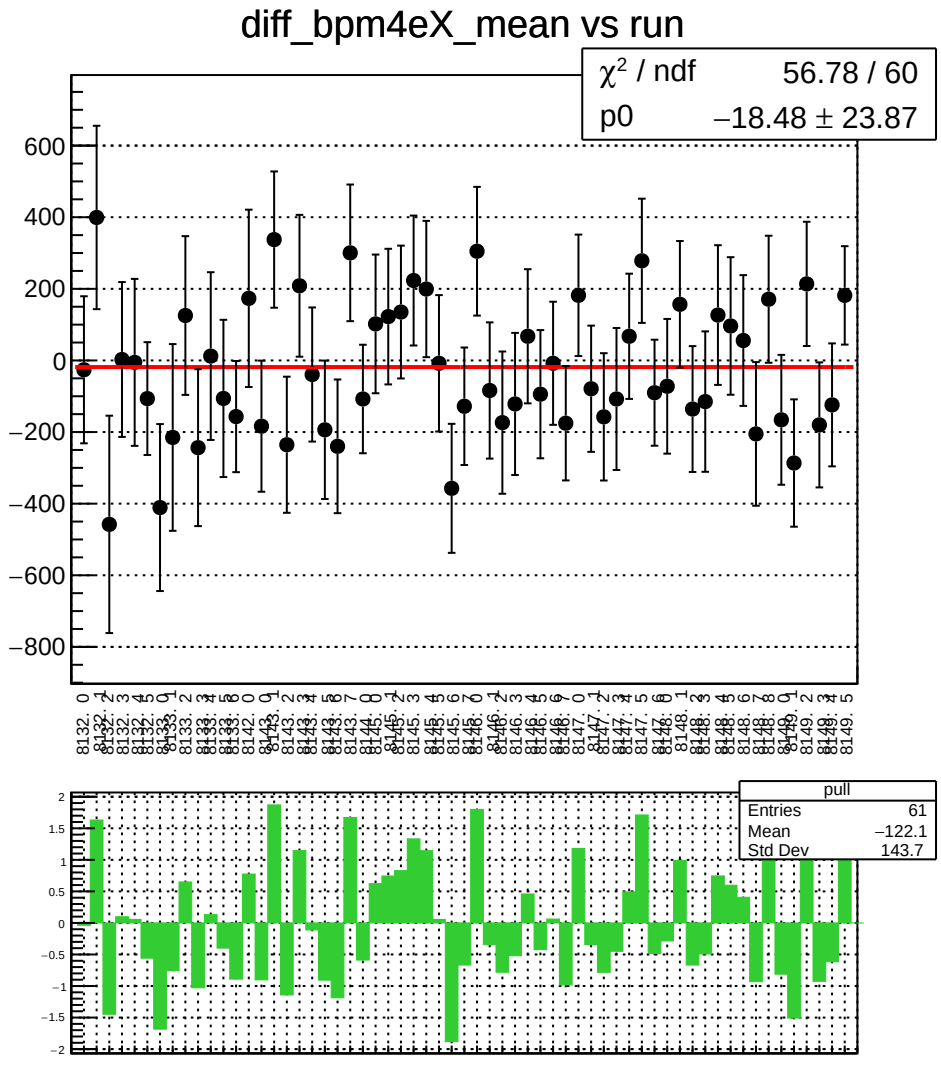

pull1D
Entries 61
Mean −0.00644
Std Dev 0.9614

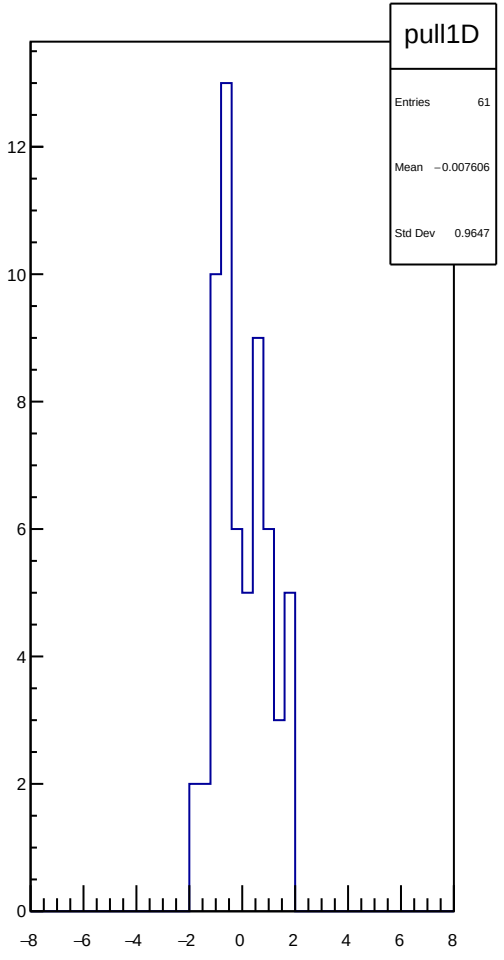

diff_bpm4aX_rms vs run
χ² / ndf 1.176e+04 / 60
p0 1.938e+04 ± 17.99
32000
30000
28000
26000
24000
22000
20000
18000
16000
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 0
8133. 1
8133. 2
8133. 3
8133. 4
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

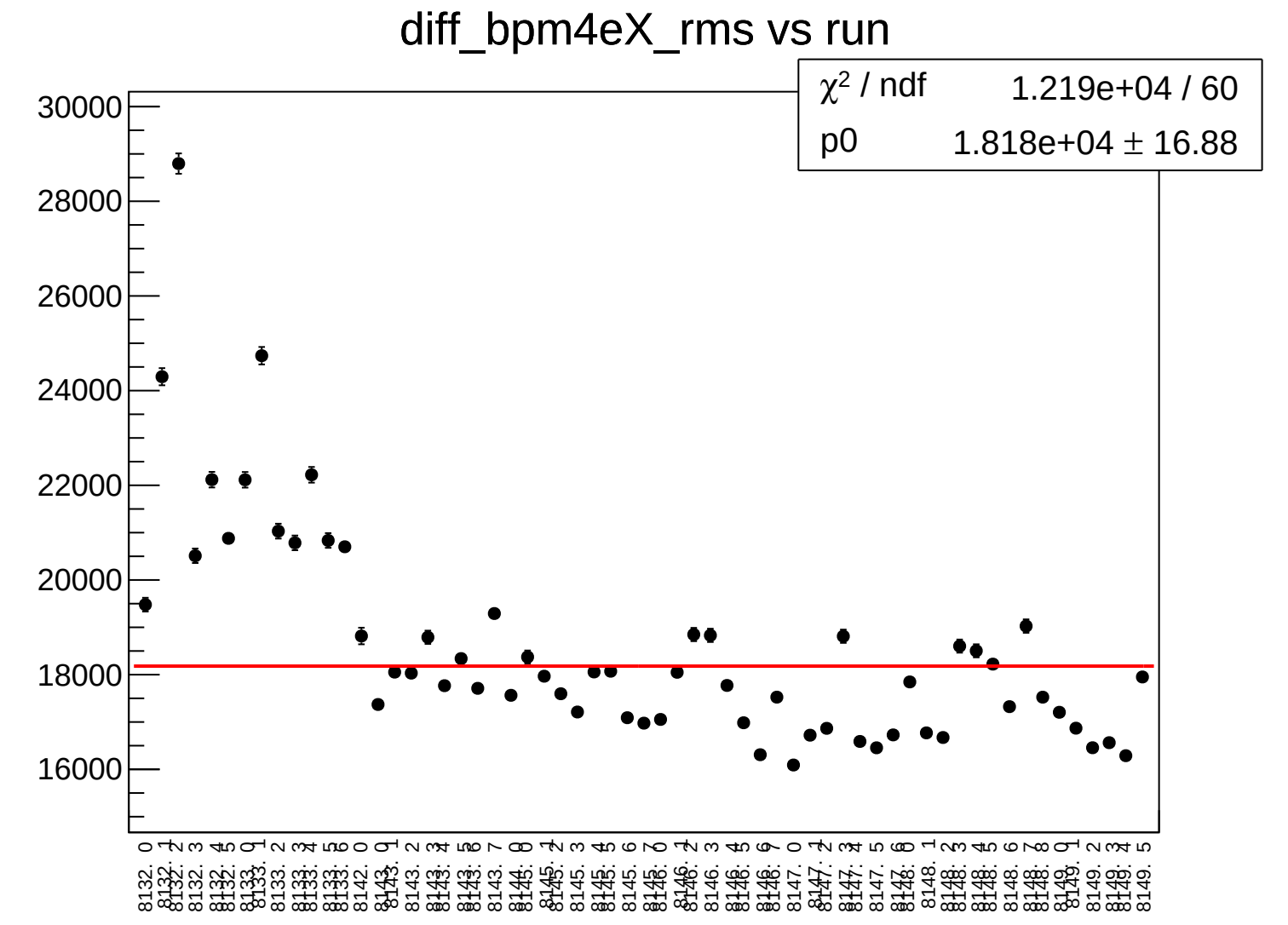

diff_bpm4aY_mean vs run
χ² / ndf 76.68 / 60
p0 −0.723 ± 8.056
pull
Entries 61
Mean −154.1
Std Dev 180.8

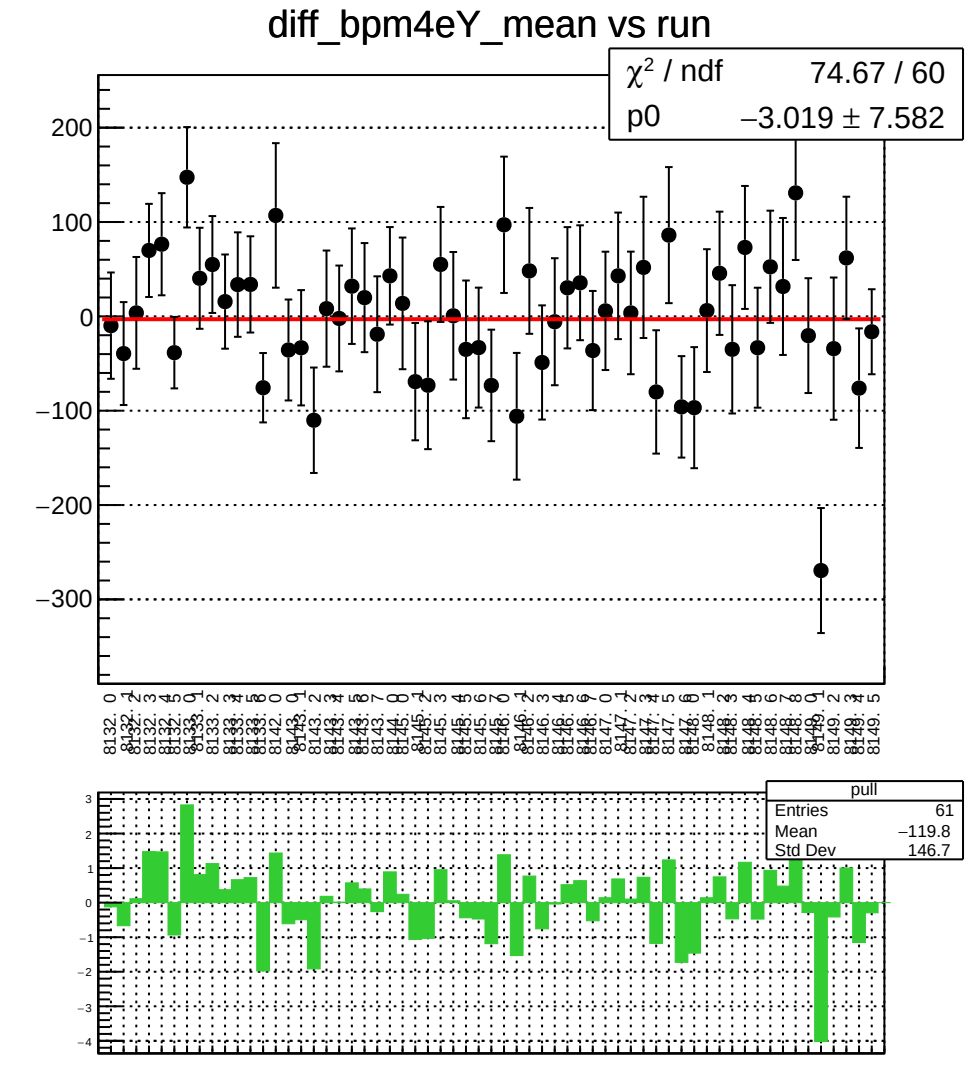

pull1D
Entries 61
Mean 0.01862
Std Dev 1.121

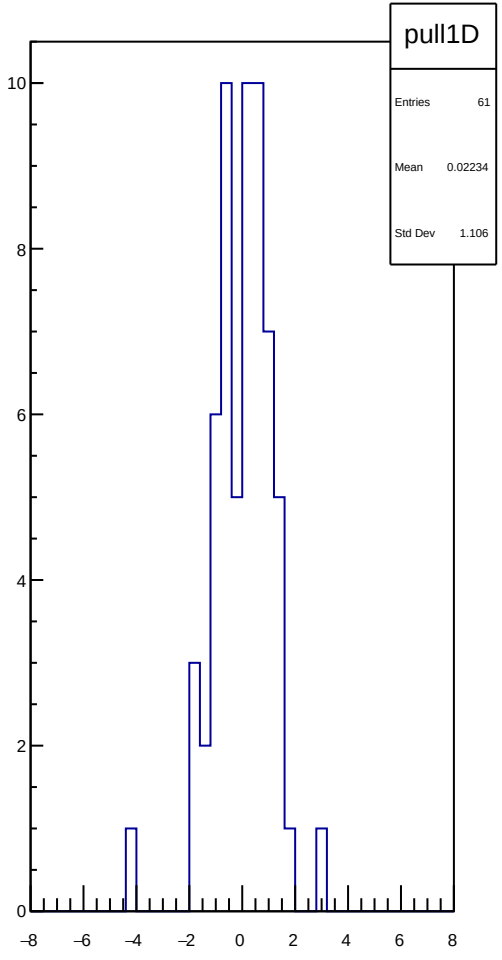

diff_bpm4aY_rms vs run
χ² / ndf 1.509e+04 / 60
p0 6127 ± 5.696
7500
7000
6500
6000
5500
5000

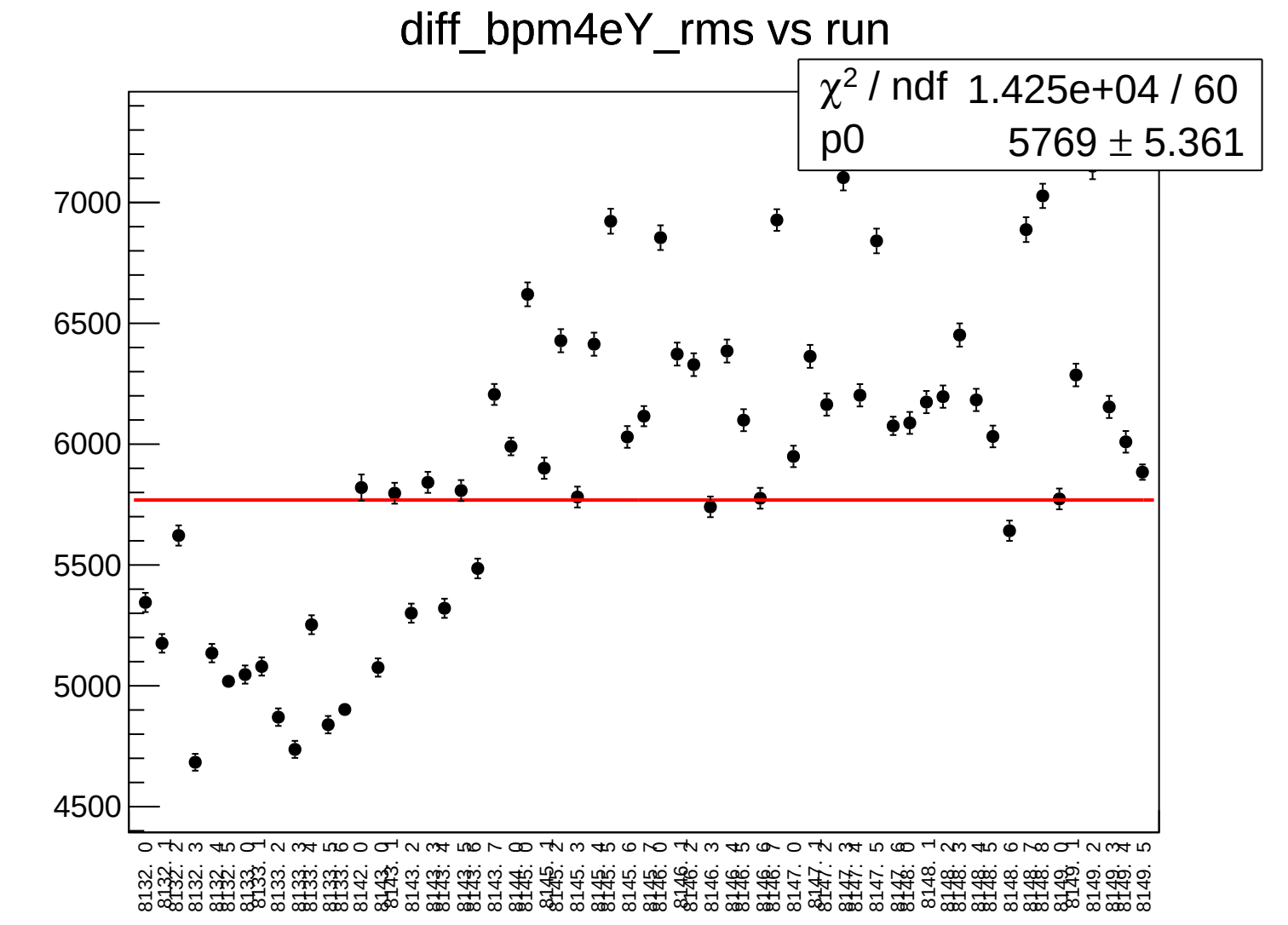

diff_bpm4eX_mean vs run
χ² / ndf 56.78 / 60
p0 −18.48 ± 23.87
pull
Entries 61
Mean −122.1
Std Dev 143.7

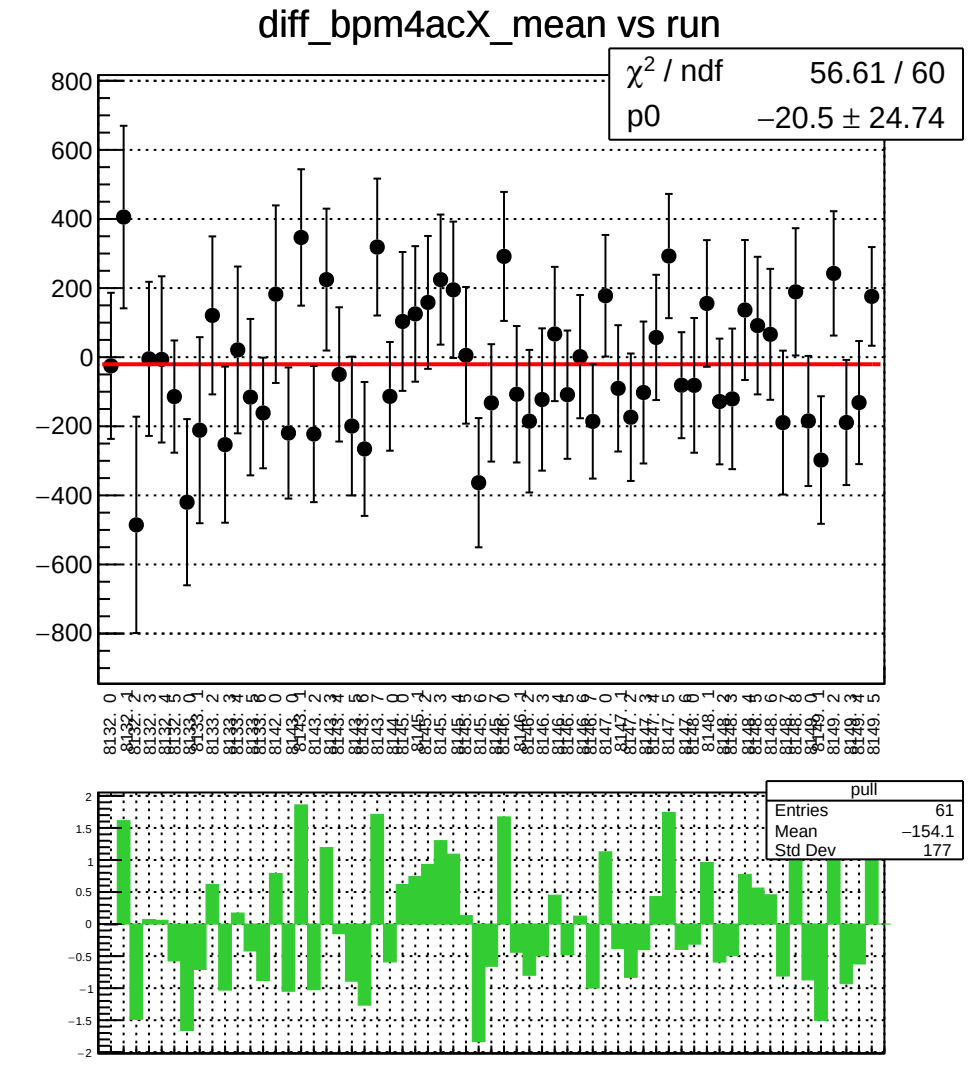

pull1D
Entries 61
Mean −0.007606
Std Dev 0.9647

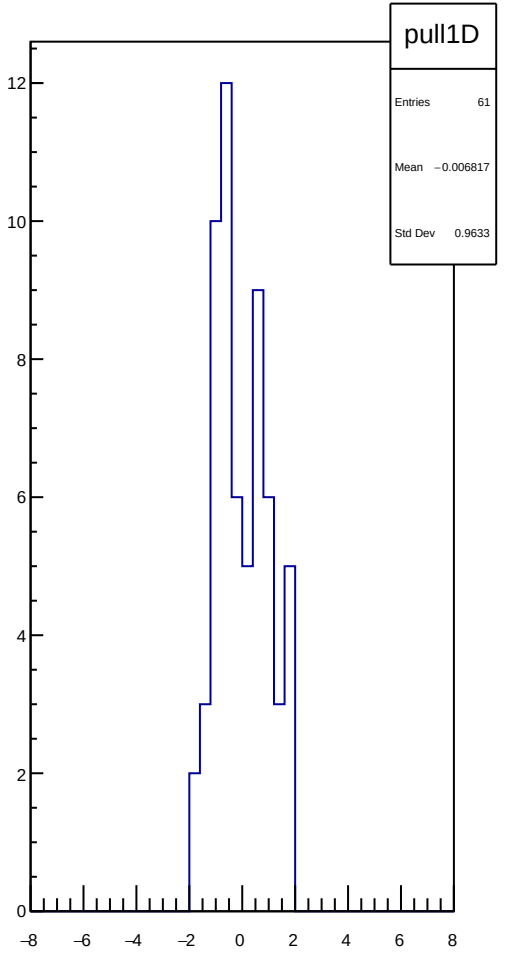

diff_bpm4eX_rms vs run
χ² / ndf 1.219e+04 / 60
p0 1.818e+04 ± 16.88
30000
28000
26000
24000
22000
20000
18000
16000

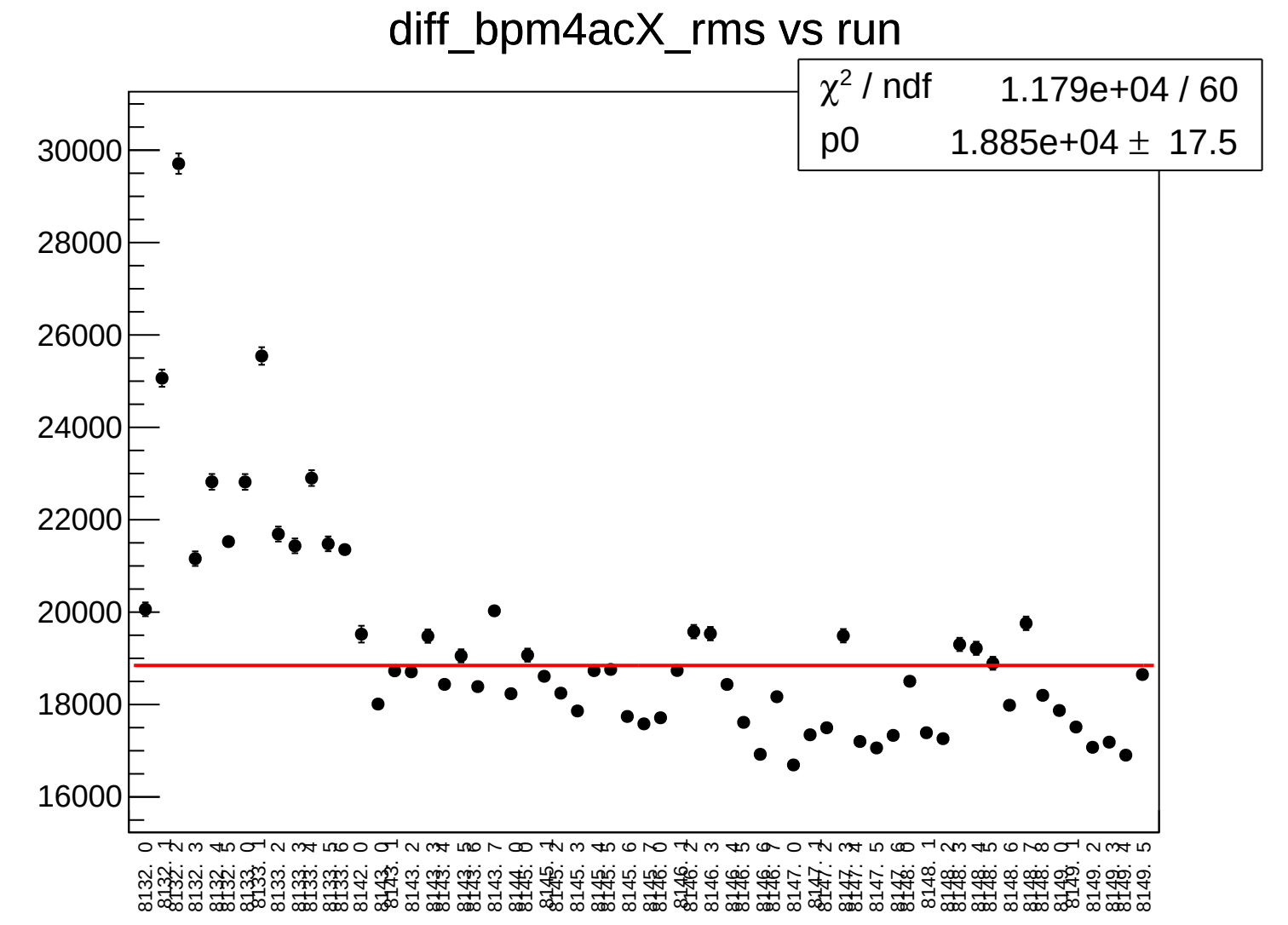

diff_bpm4eY_mean vs run
χ² / ndf 74.67 / 60
p0 −3.019 ± 7.582
pull
Entries 61
Mean −119.8
Std Dev 146.7

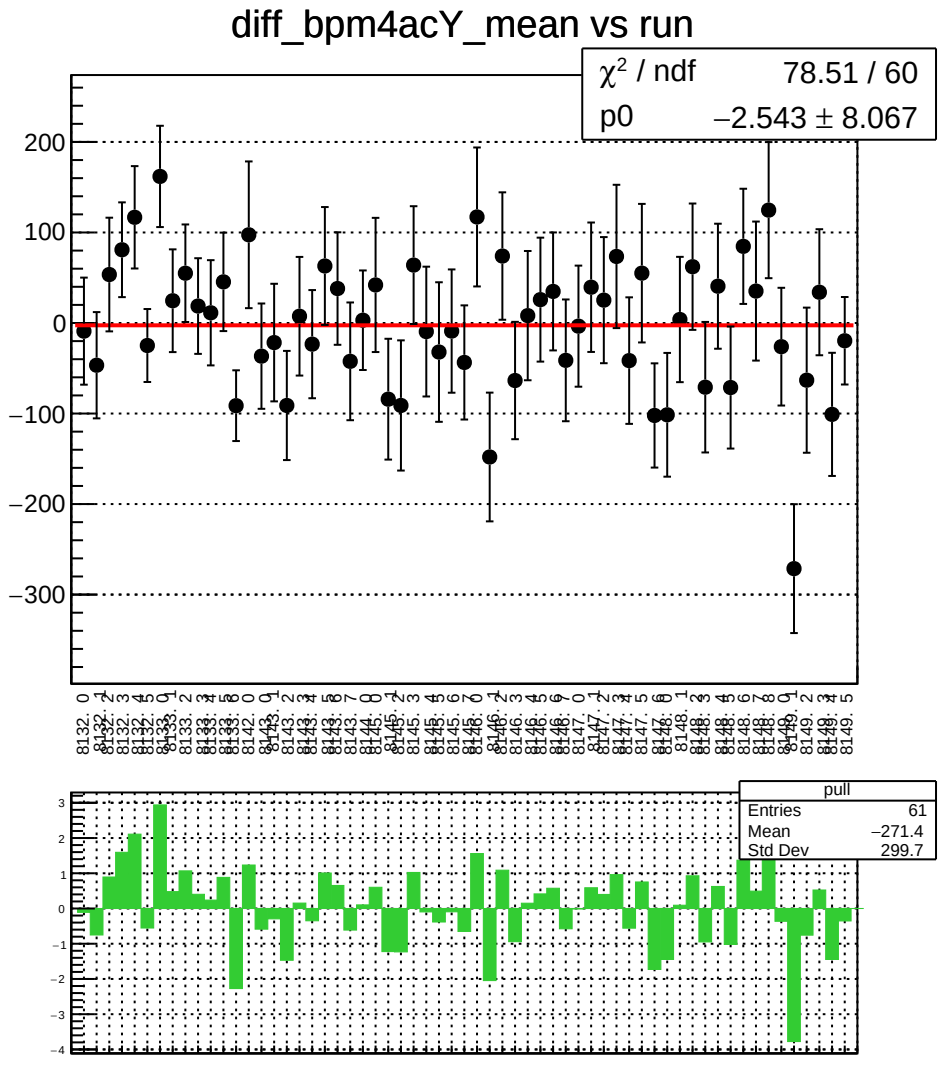

pull1D
Entries 61
Mean 0.02234
Std Dev 1.106

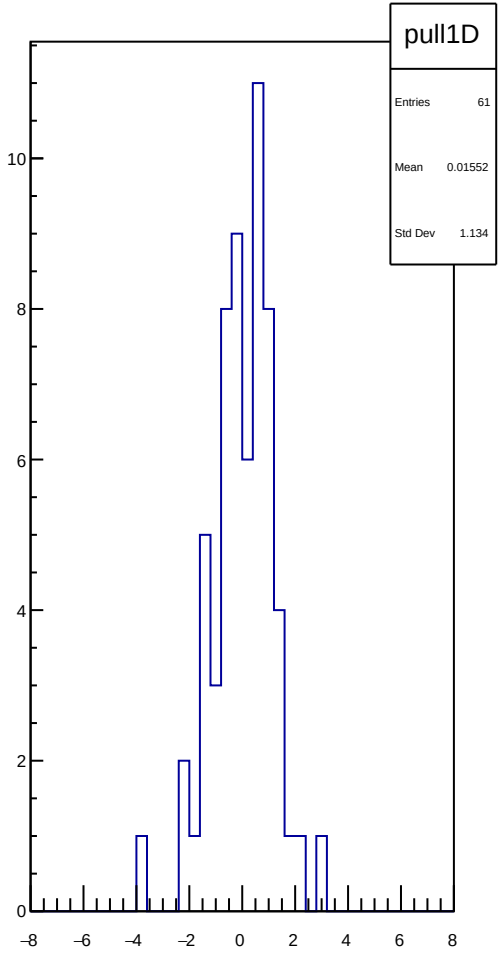

diff_bpm4eY_rms vs run
χ² / ndf 1.425e+04 / 60
p0 5769 ± 5.361
7000
6500
6000
5500
5000
4500

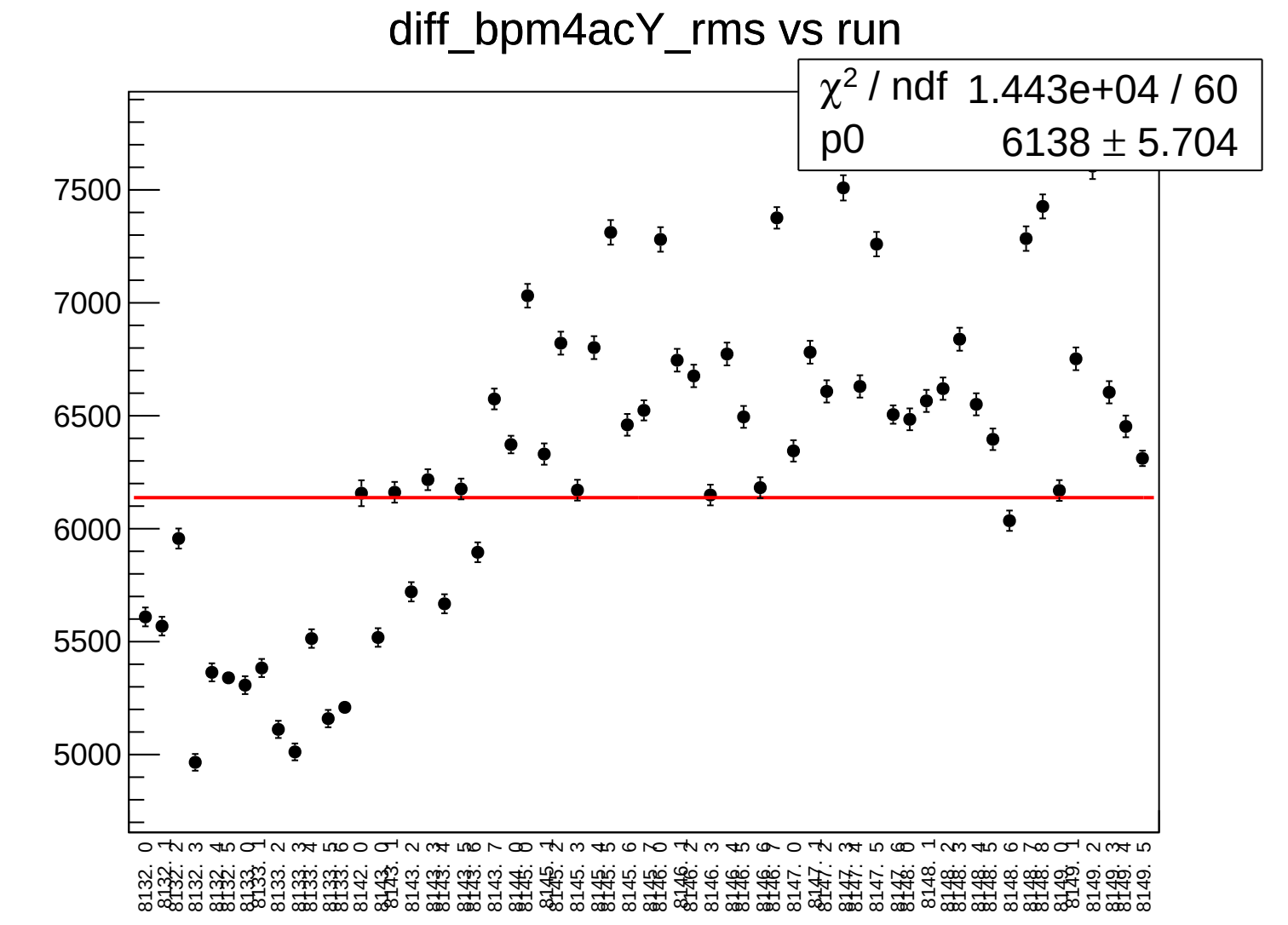

diff_bpm4acX_mean vs run
χ^2 / ndf 56.61 / 60
p0 −20.5 ± 24.74
pull
Entries 61
Mean −154.1
Std Dev 177

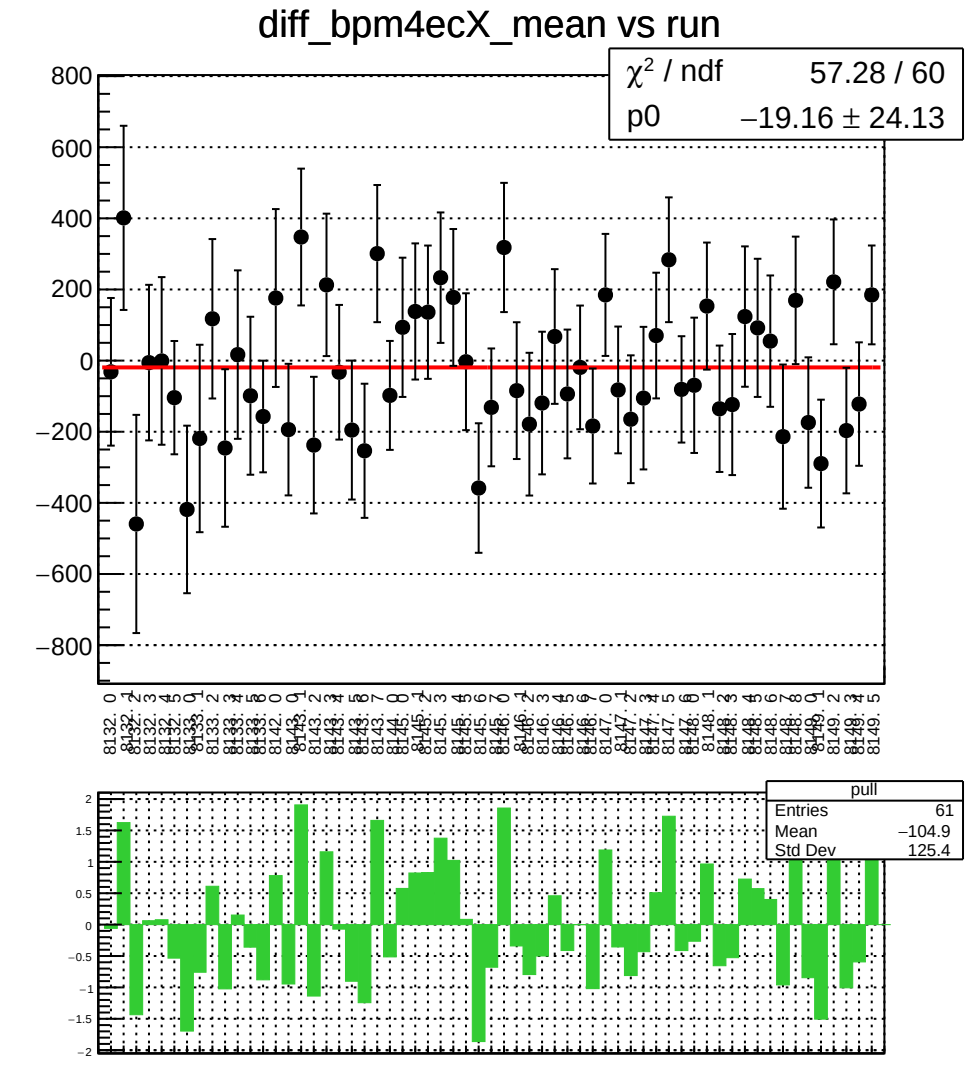

pull1D
Entries 61
Mean −0.006817
Std Dev 0.9633

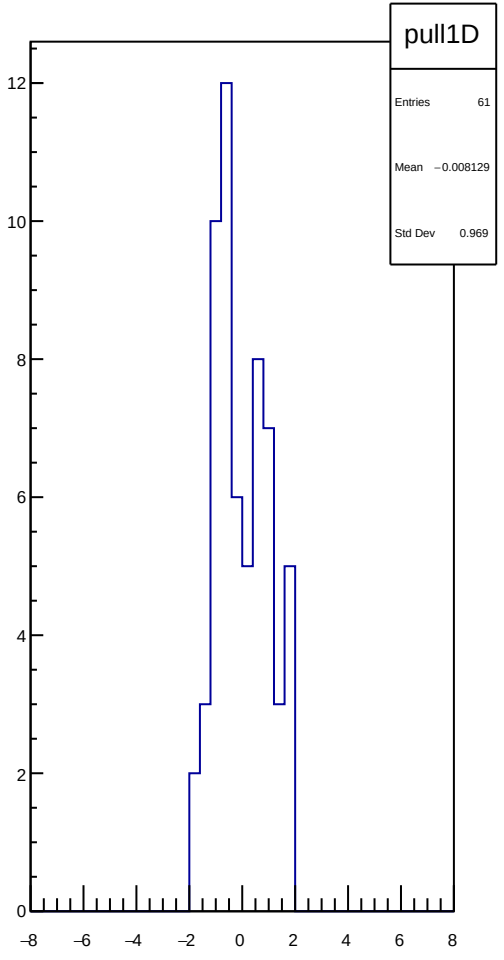

diff_bpm4acX_rms vs run
χ² / ndf 1.179e+04 / 60
p0 1.885e+04 ± 17.5
30000
28000
26000
24000
22000
20000
18000
16000

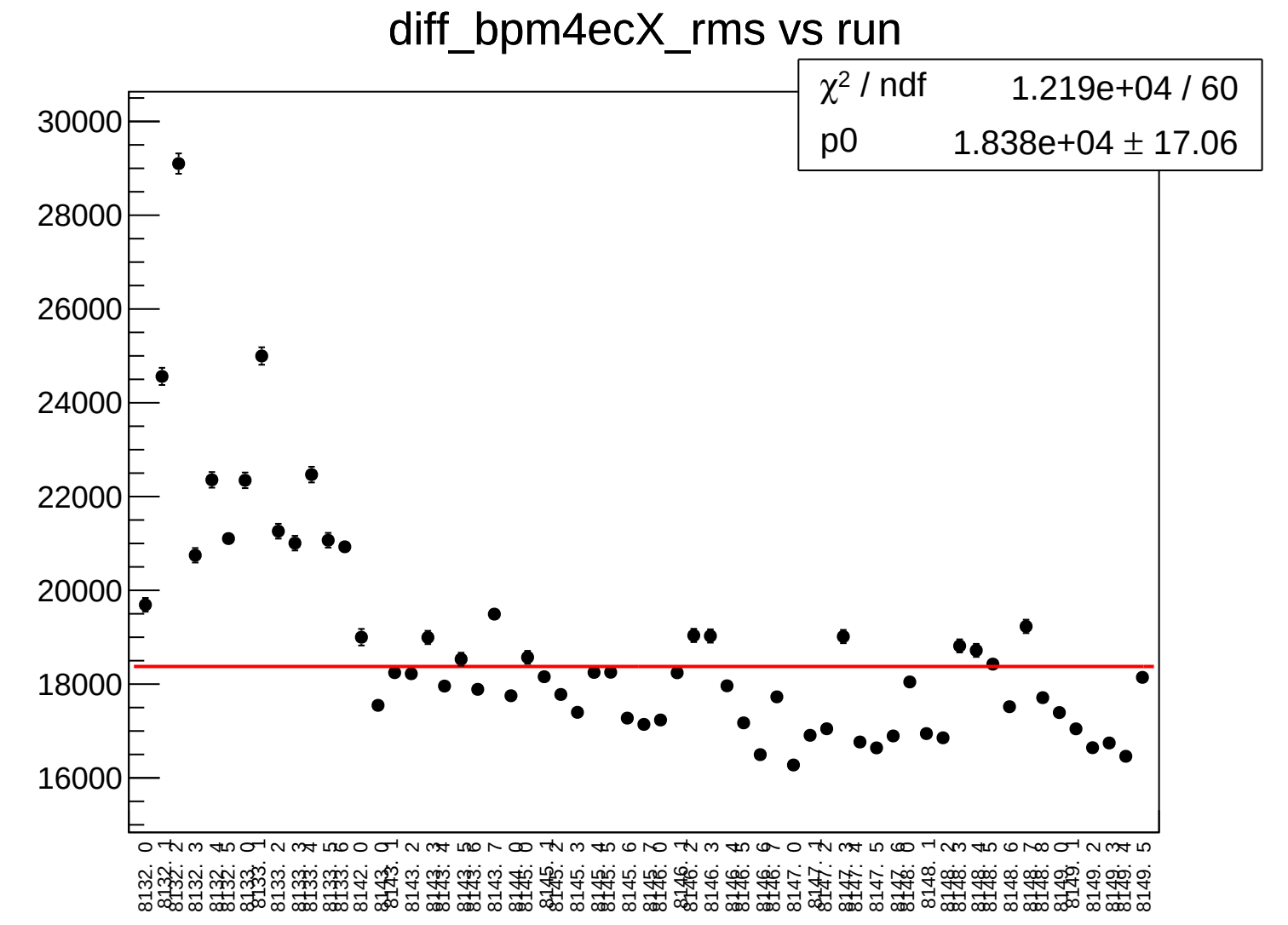

diff_bpm4acY_mean vs run
χ² / ndf 78.51 / 60
p0 −2.543 ± 8.067
200
100
0
−100
−200
−300
pull
Entries 61
Mean −271.4
Std Dev 299.7
3
2
1
0
−1
−2
−3
−4

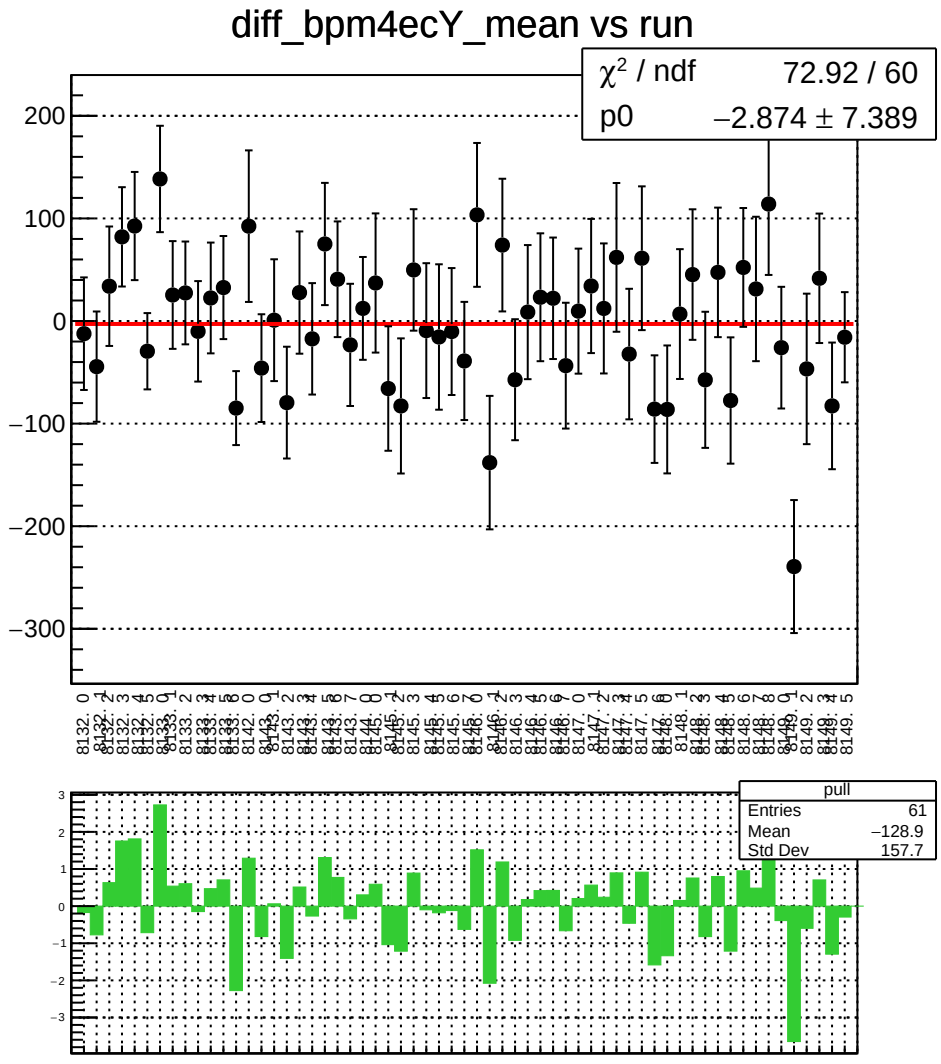

pull1D
Entries 61
Mean 0.01552
Std Dev 1.134
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

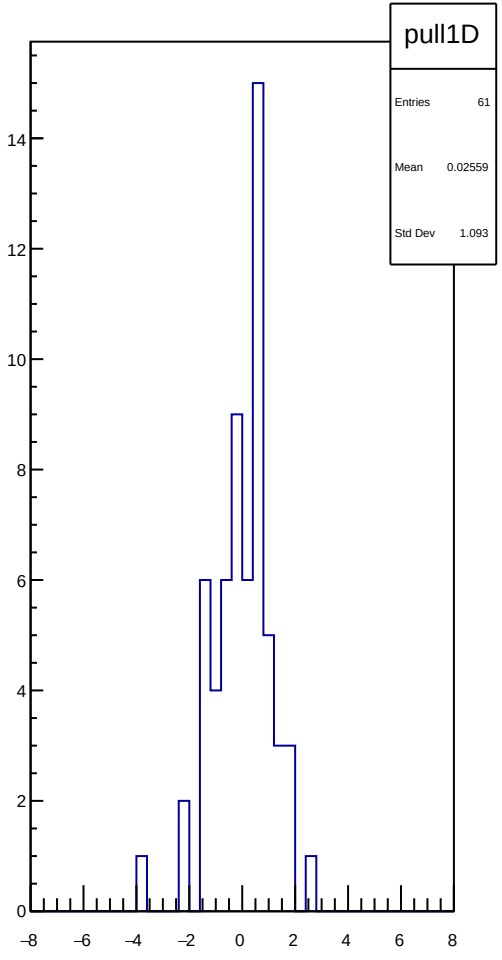

diff_bpm4acY_rms vs run
χ² / ndf 1.443e+04 / 60
p0 6138 ± 5.704
7500
7000
6500
6000
5500
5000

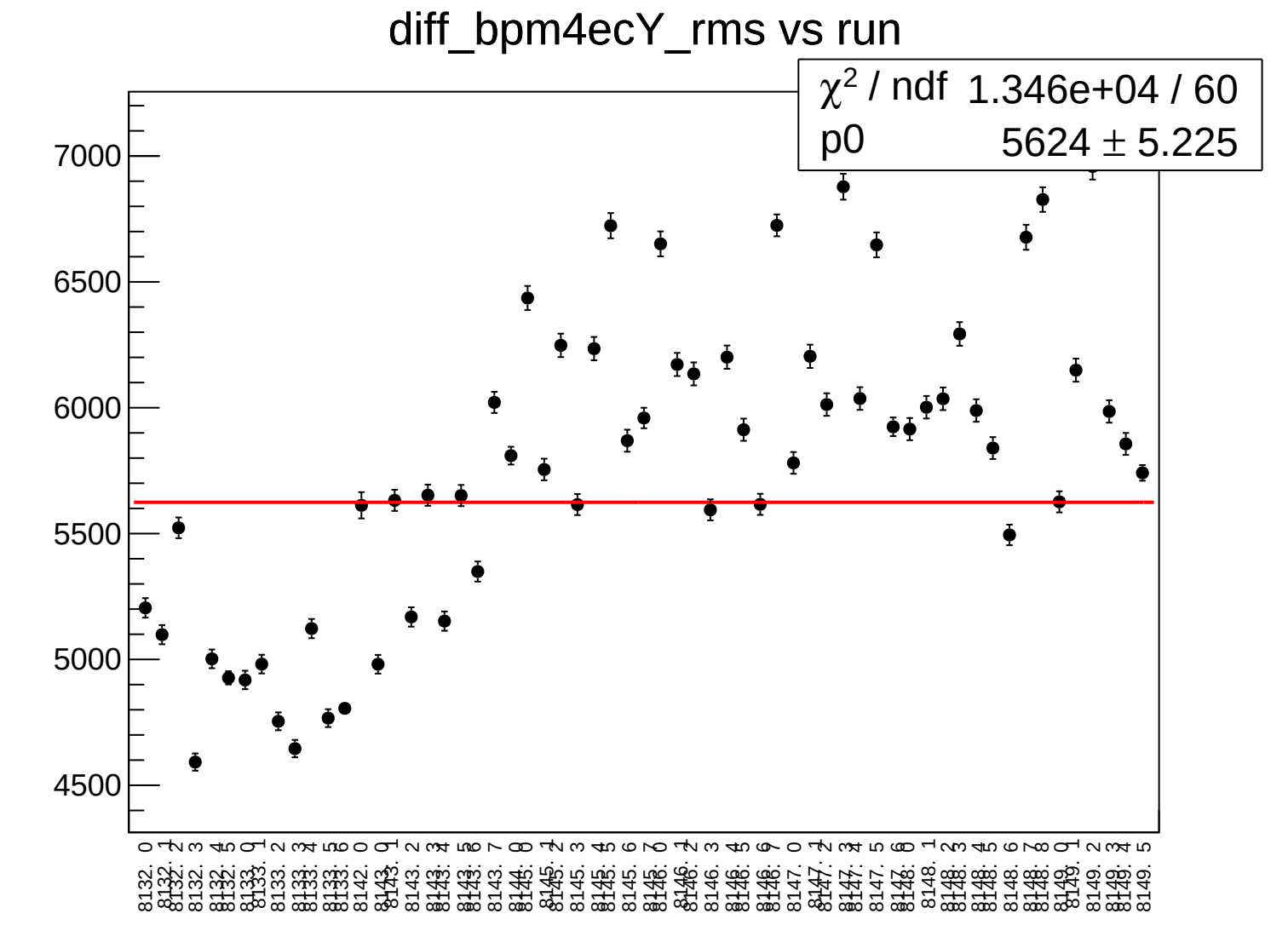

diff_bpm4ecX_mean vs run
χ² / ndf 57.28 / 60
p0 −19.16 ± 24.13
pull
Entries 61
Mean −104.9
Std Dev 125.4

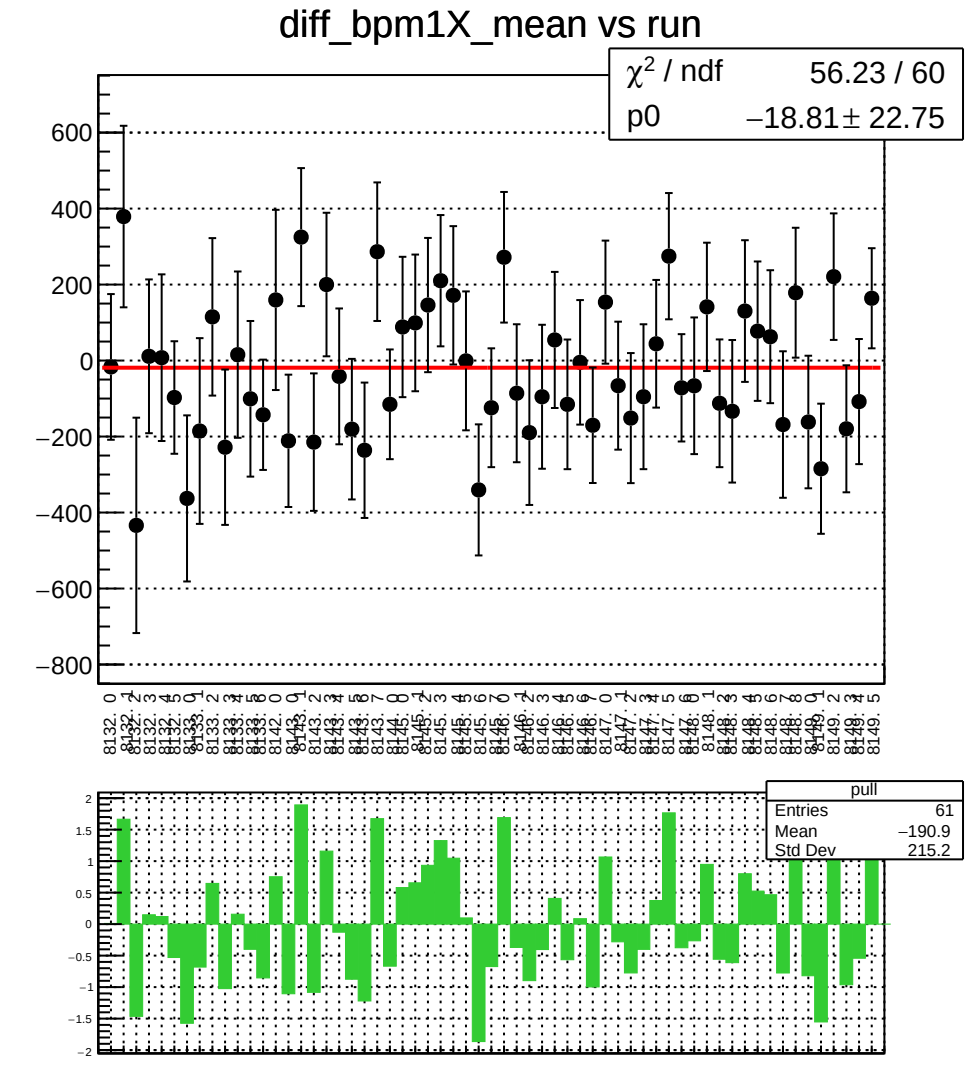

pull1D
Entries 61
Mean −0.008129
Std Dev 0.969

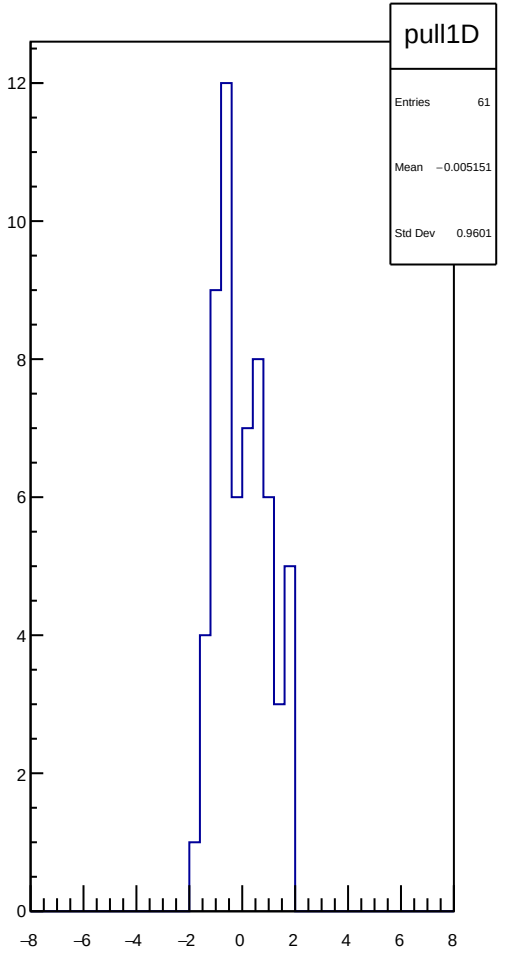

diff_bpm4ecX_rms vs run
χ² / ndf 1.219e+04 / 60
p0 1.838e+04 ± 17.06
30000
28000
26000
24000
22000
20000
18000
16000

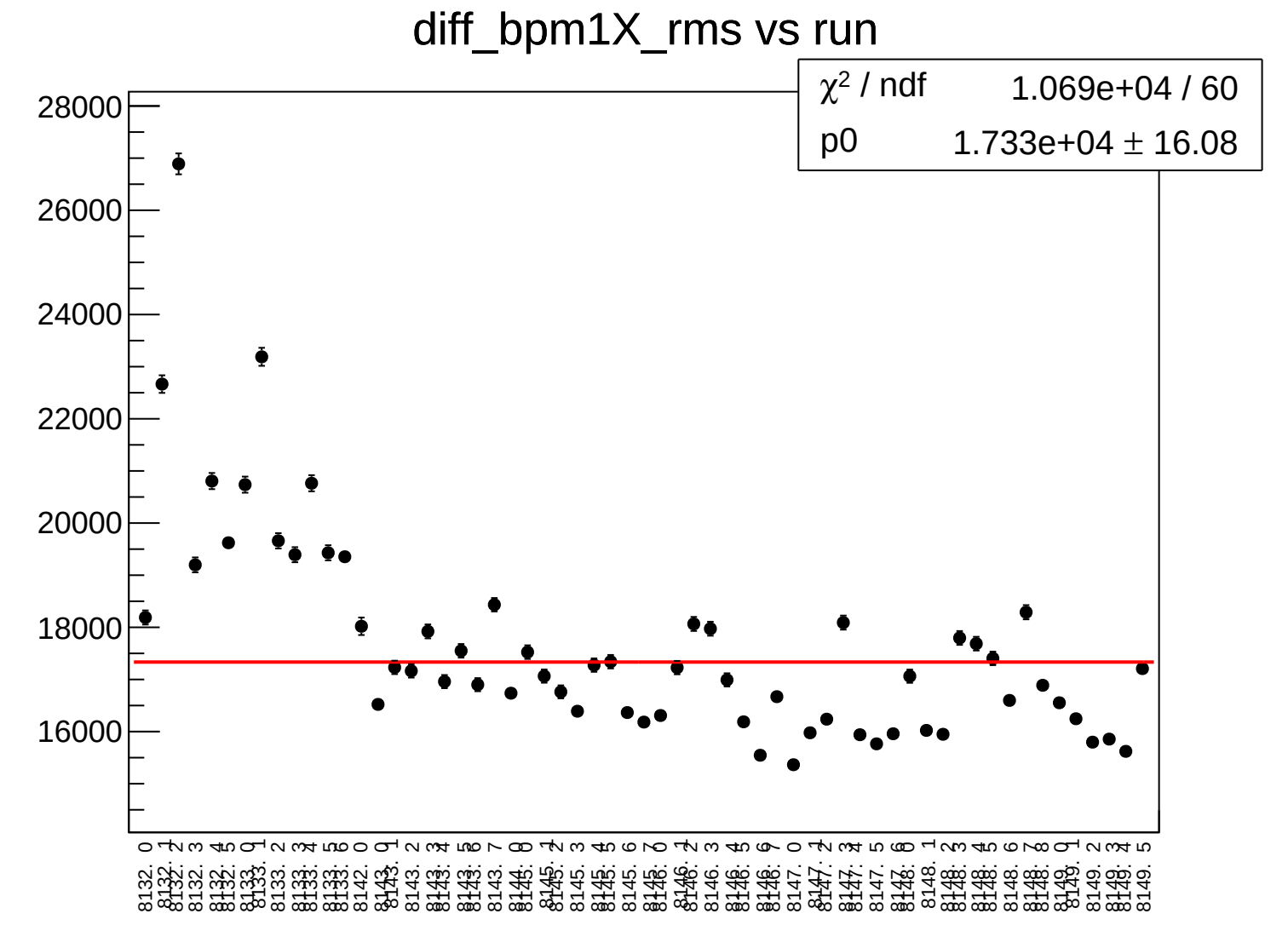

diff_bpm4ecY_mean vs run
χ² / ndf 72.92 / 60
p0 −2.874 ± 7.389
200
100
0
−100
−200
−300
pull
Entries 61
Mean −128.9
Std Dev 157.7
3
2
1
0
−1
−2
−3

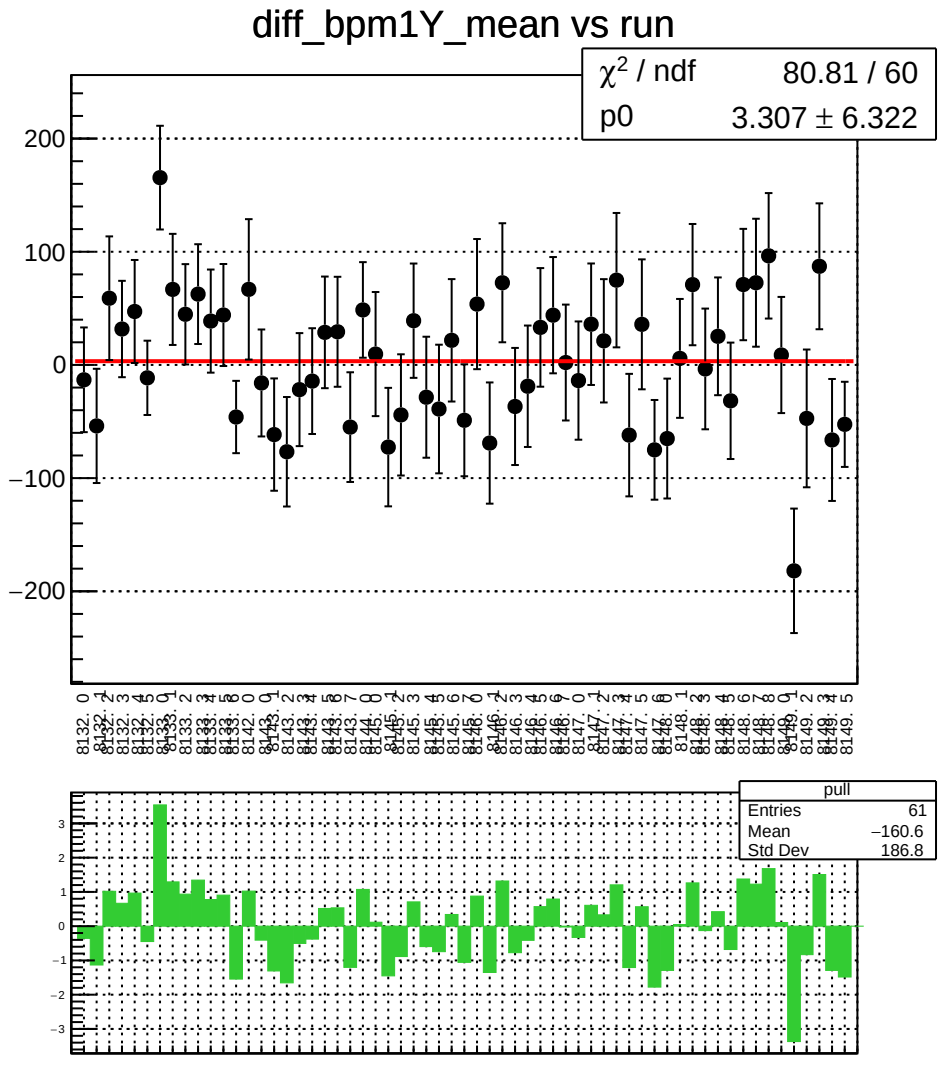

pull1D
Entries 61
Mean 0.02559
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

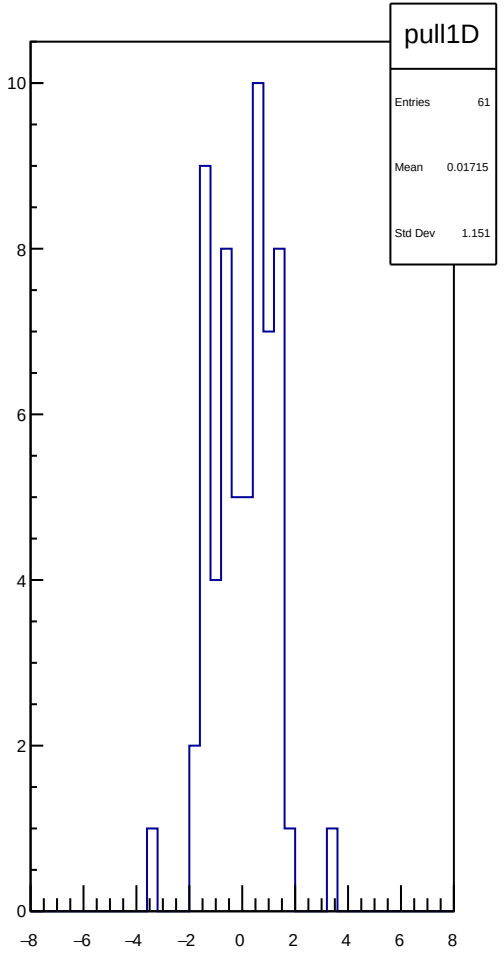

diff_bpm4ecY_rms vs run
χ² / ndf 1.346e+04 / 60
p0 5624 ± 5.225
7000
6500
6000
5500
5000
4500

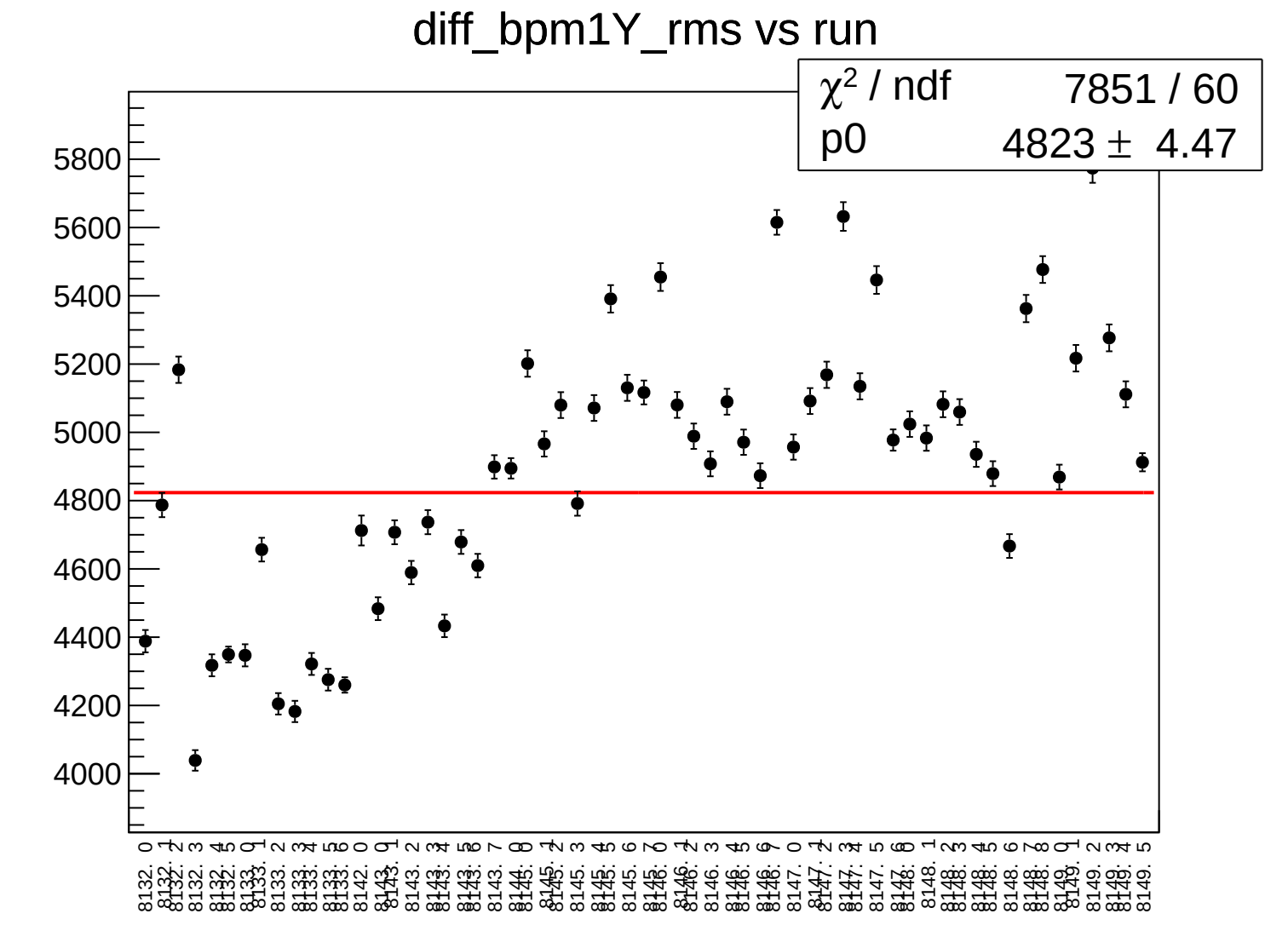

diff_bpm1X_mean vs run
χ^2 / ndf 56.23 / 60
p0 −18.81± 22.75
pull
Entries 61
Mean −190.9
Std Dev 215.2

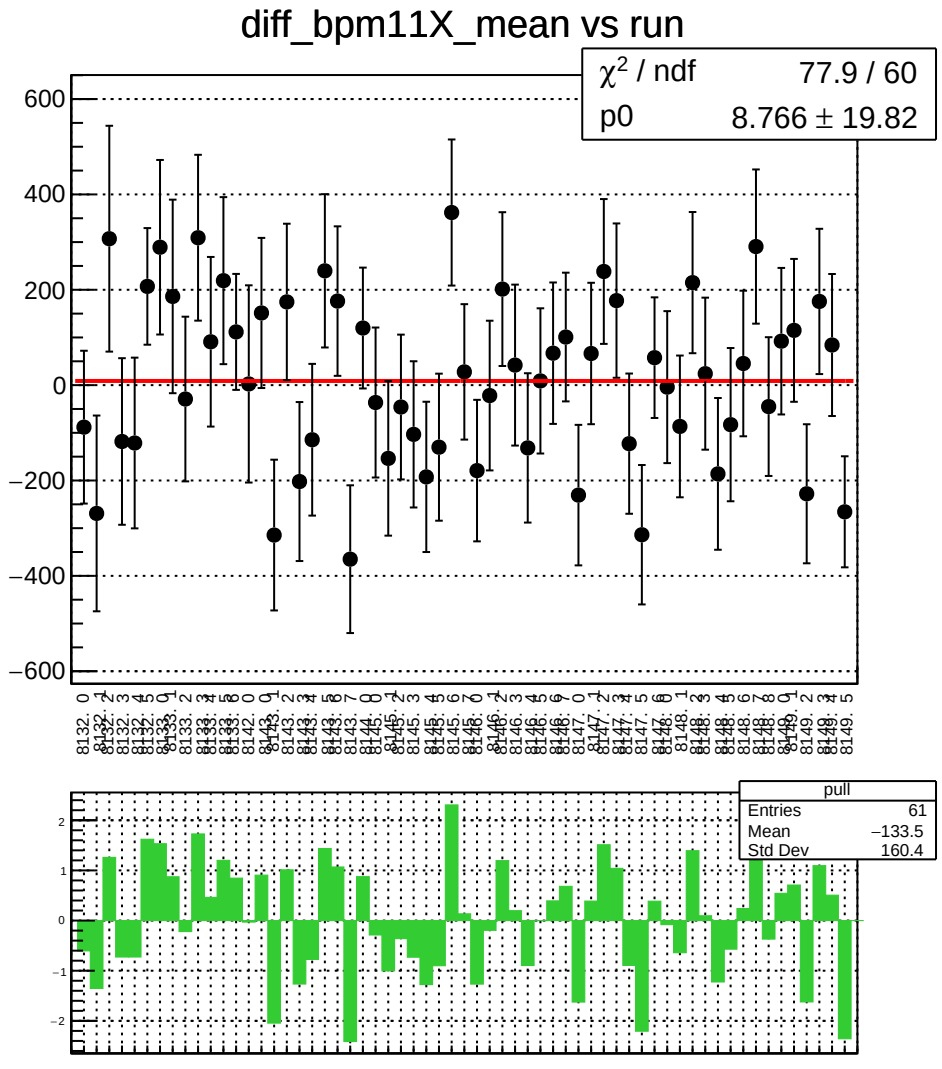

pull1D
Entries 61
Mean −0.005151
Std Dev 0.9601

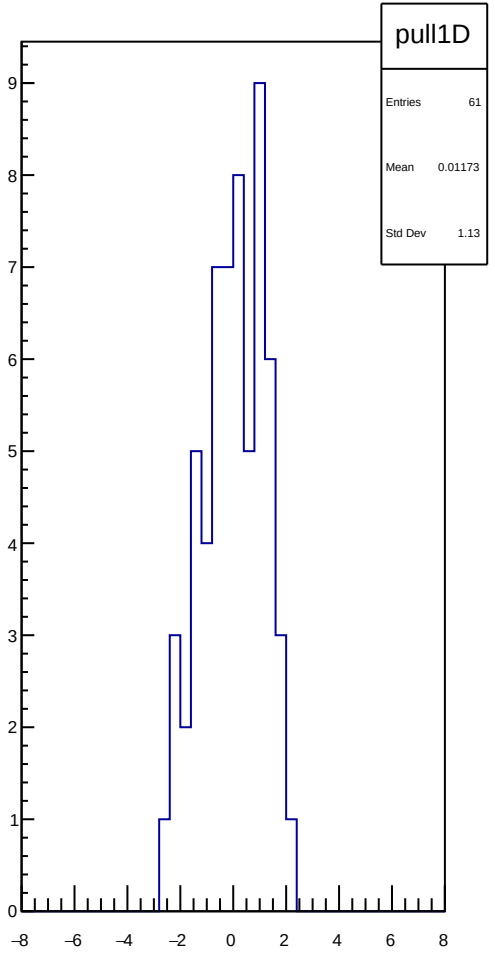

diff_bpm1X_rms vs run
χ² / ndf 1.069e+04 / 60
p0 1.733e+04 ± 16.08
28000
26000
24000
22000
20000
18000
16000

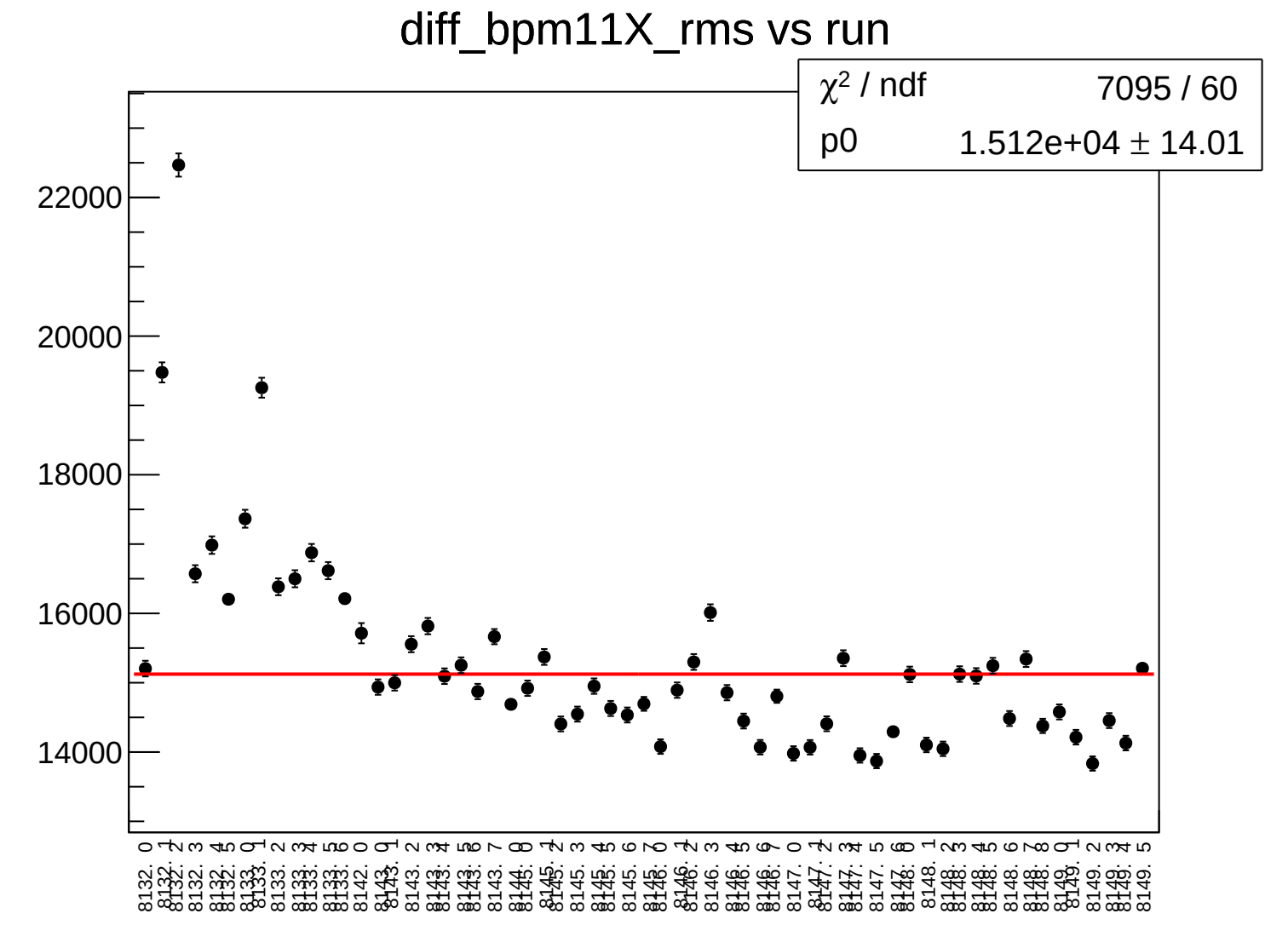

diff_bpm1Y_mean vs run
χ² / ndf 80.81 / 60
p0 3.307 ± 6.322
200
100
0
−100
−200
pull
Entries 61
Mean −160.6
Std Dev 186.8
3
2
1
0
−1
−2
−3

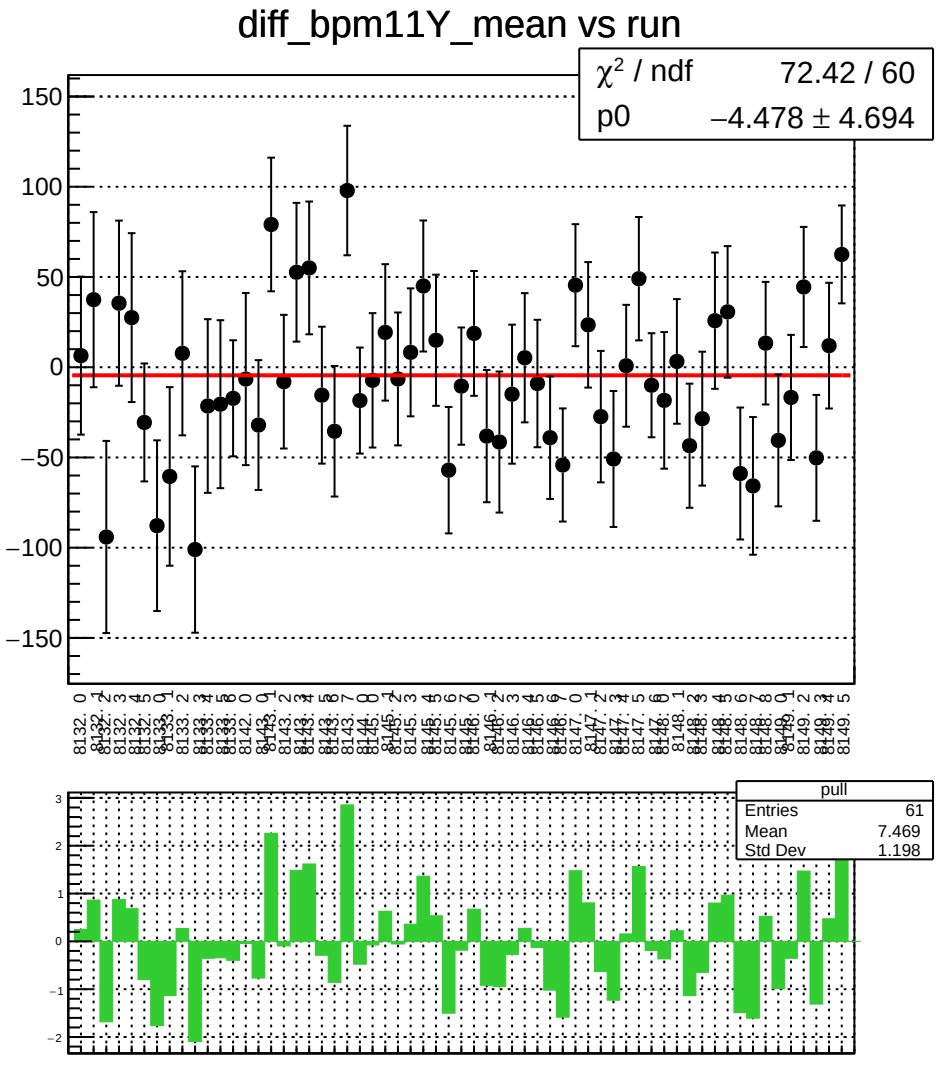

pull1D
Entries 61
Mean 0.01715
Std Dev 1.151
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

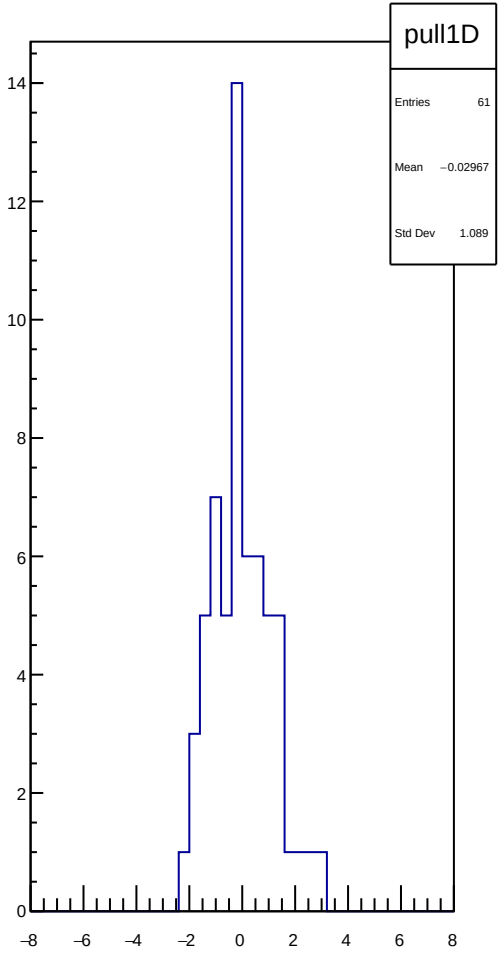

diff_bpm1Y_rms vs run
χ² / ndf 7851 / 60
p0 4823 ± 4.47
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

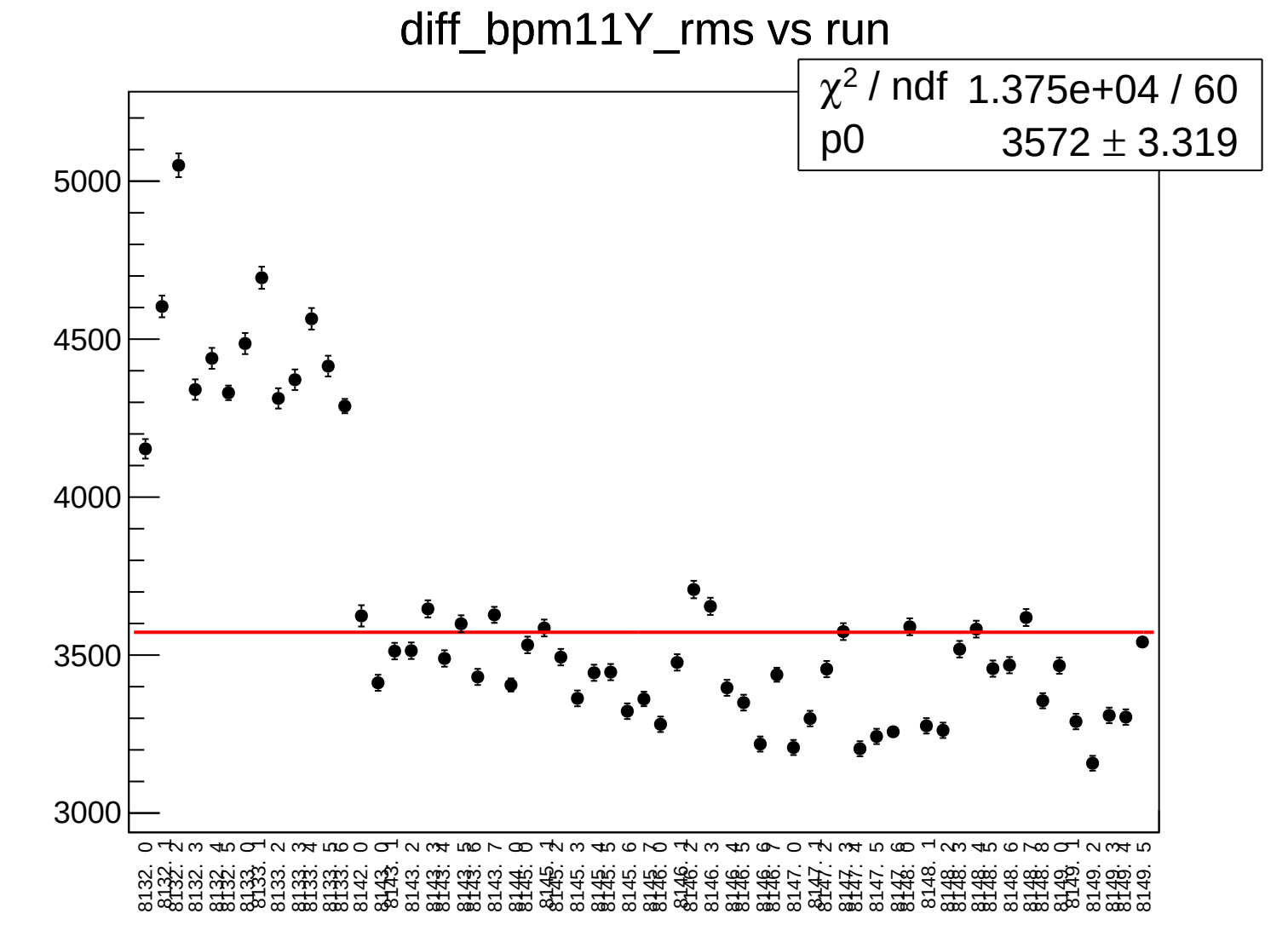

diff_bpm11X_mean vs run
χ² / ndf 77.9 / 60
p0 8.766 ± 19.82
pull
Entries 61
Mean −133.5
Std Dev 160.4

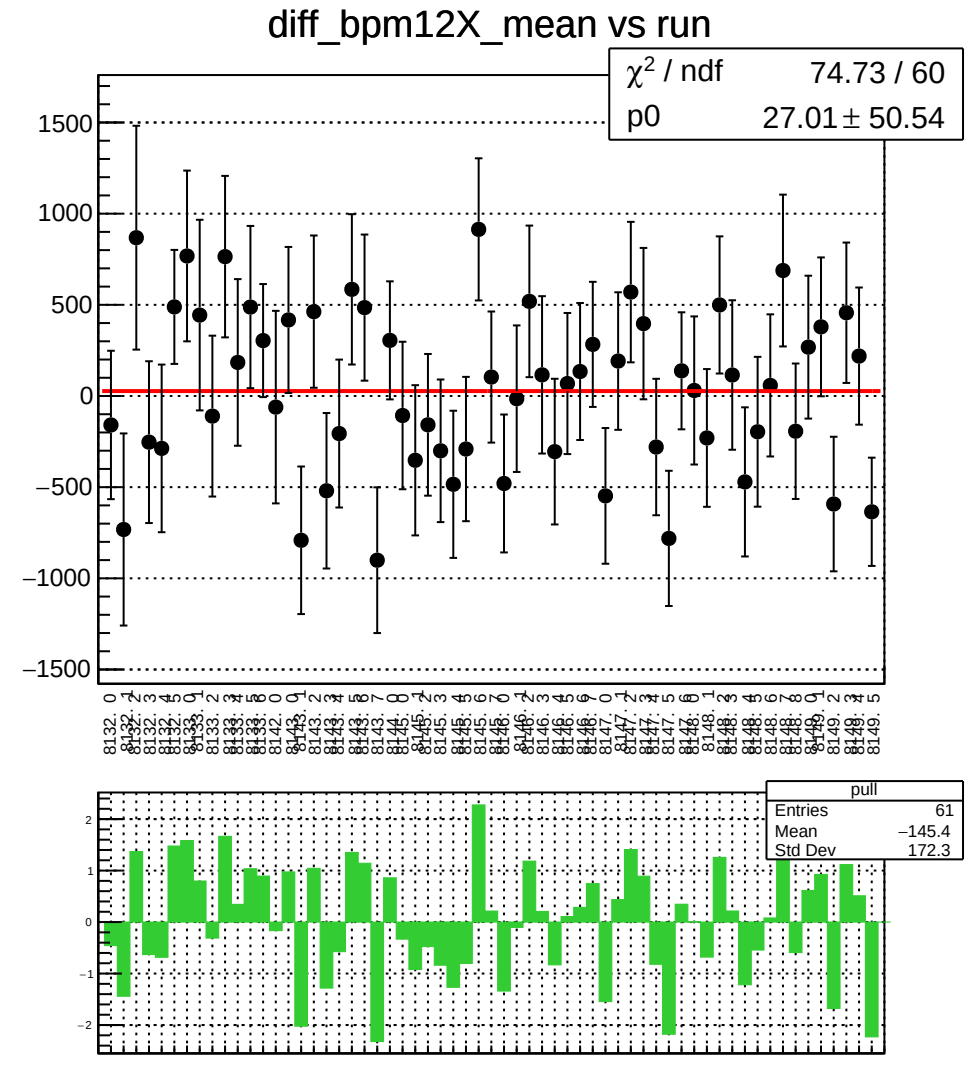

pull1D
Entries 61
Mean 0.01173
Std Dev 1.13

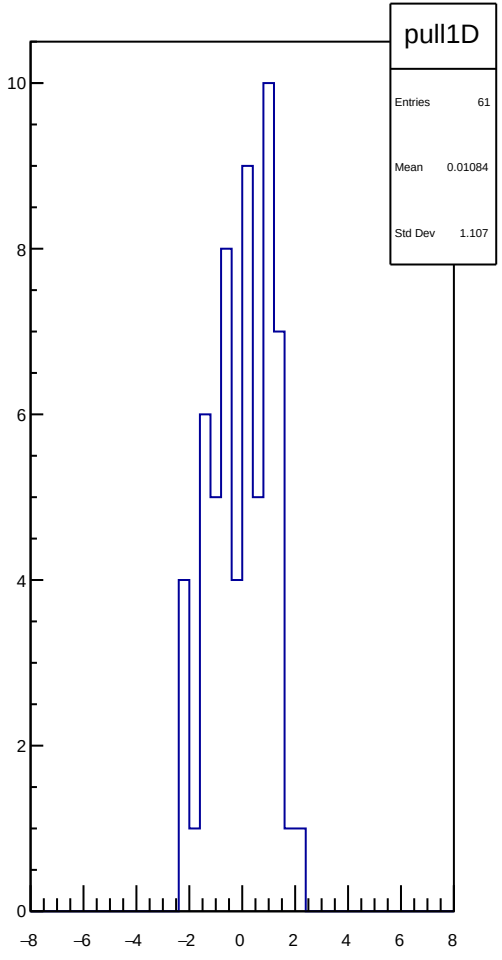

diff_bpm11X_rms vs run
χ² / ndf 7095 / 60
p0 1.512e+04 ± 14.01
22000
20000
18000
16000
14000

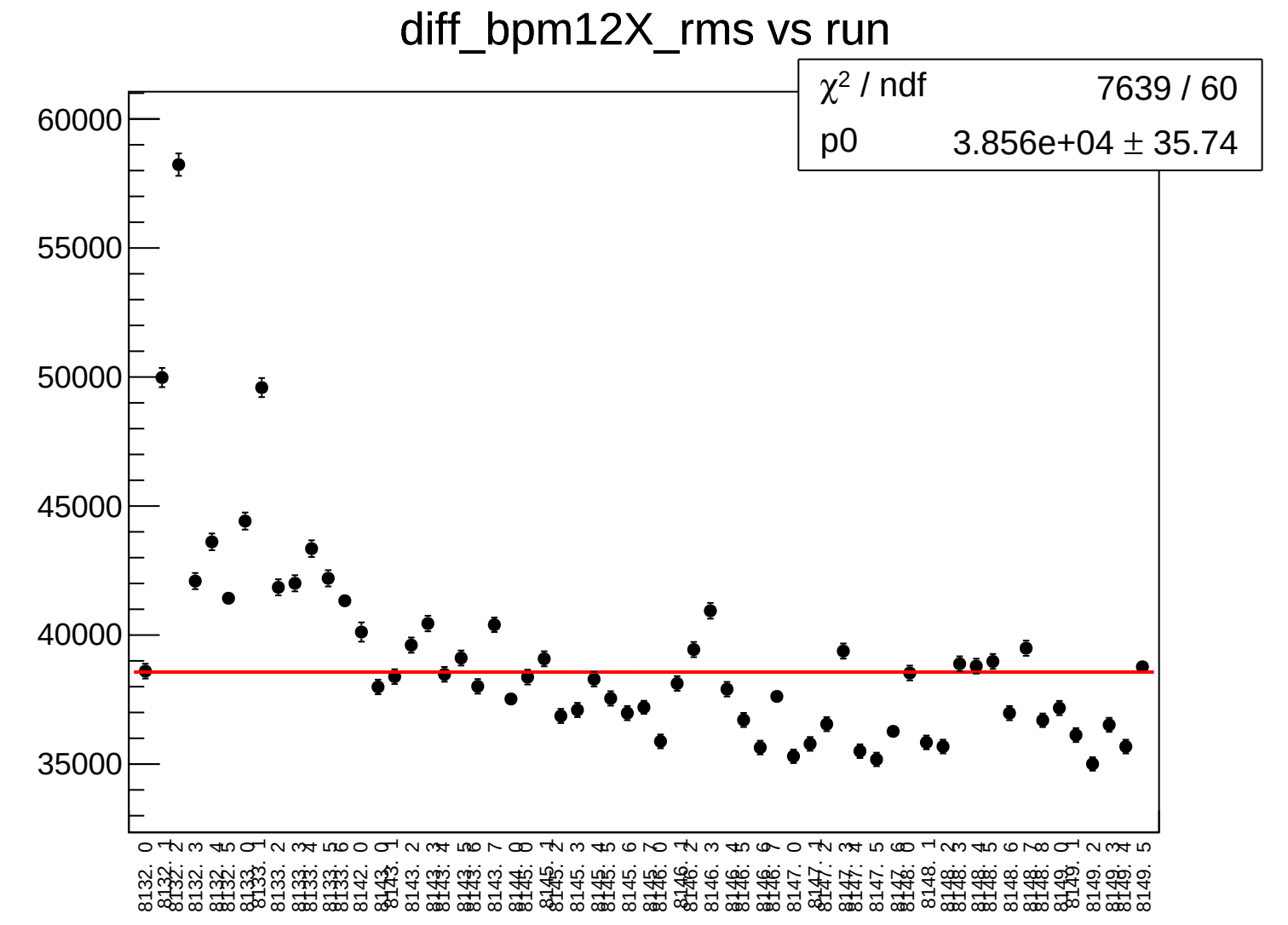

diff_bpm11Y_mean vs run
χ² / ndf 72.42 / 60
p0 −4.478 ± 4.694
pull
Entries 61
Mean 7.469
Std Dev 1.198

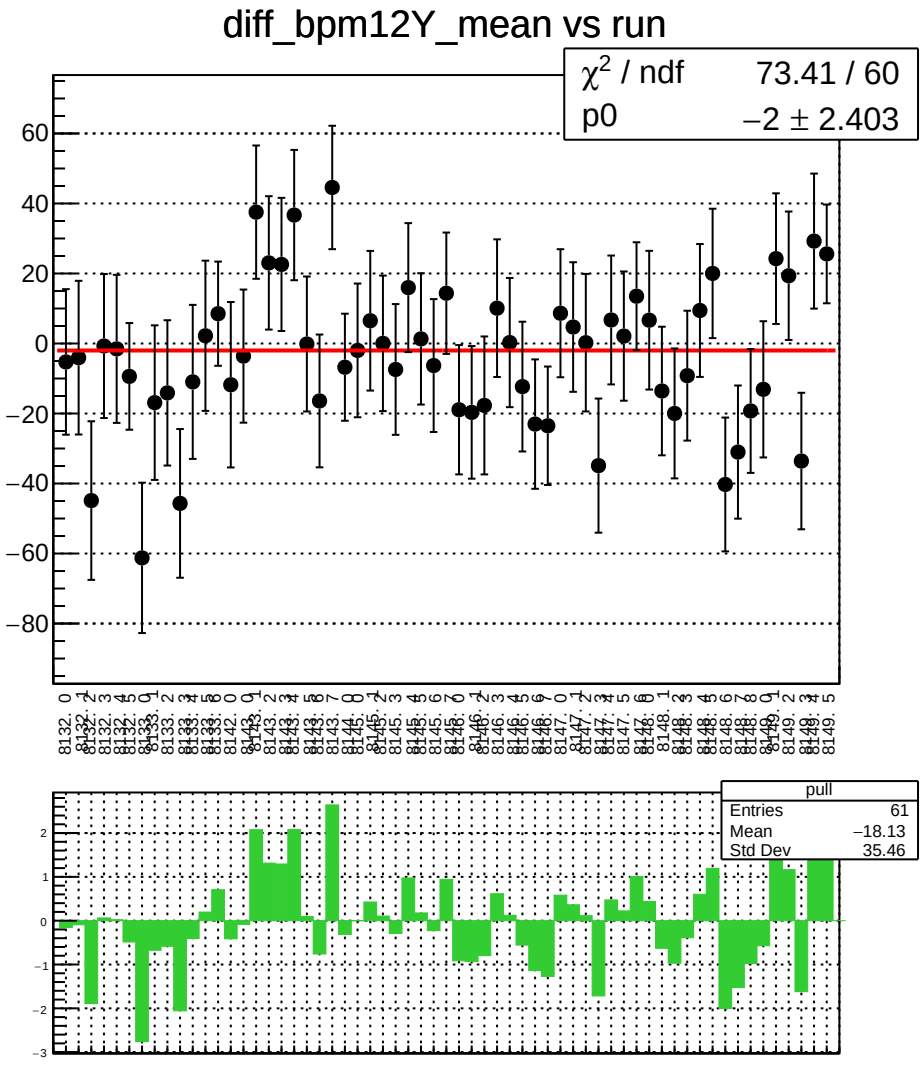

pull1D
Entries 61
Mean −0.02967
Std Dev 1.089

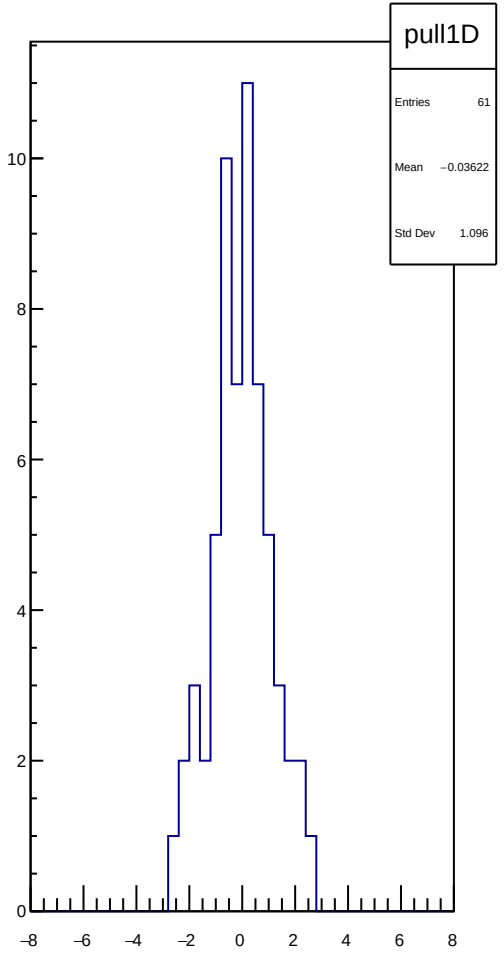

diff_bpm11Y_rms vs run
χ² / ndf 1.375e+04 / 60
p0 3572 ± 3.319
5000
4500
4000
3500
3000

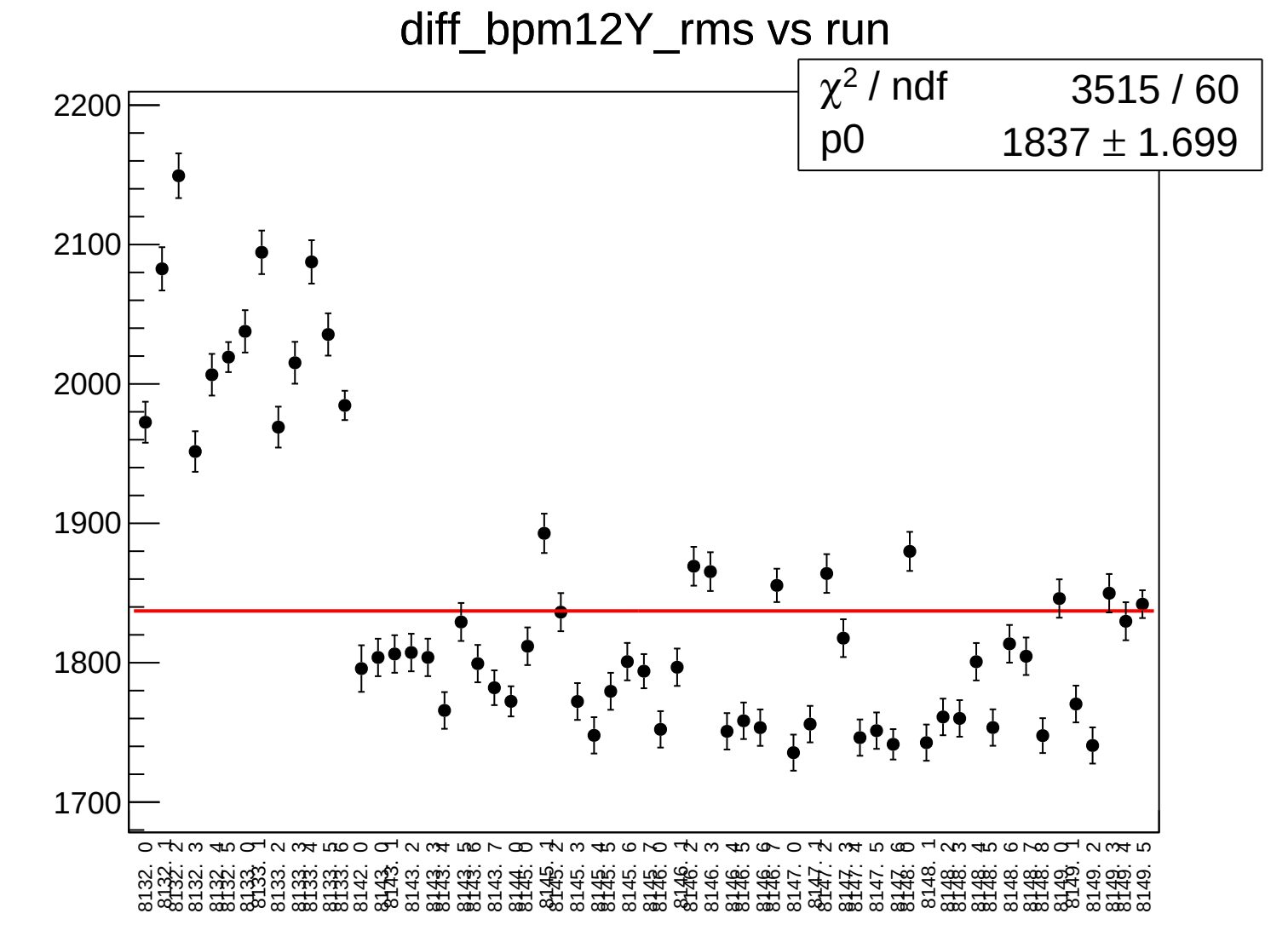

diff_bpm12X_mean vs run
χ^2 / ndf 74.73 / 60
p0 27.01 ± 50.54
1500
1000
500
0
−500
−1000
−1500
pull
Entries 61
Mean −145.4
Std Dev 172.3
2
1
0
−1
−2

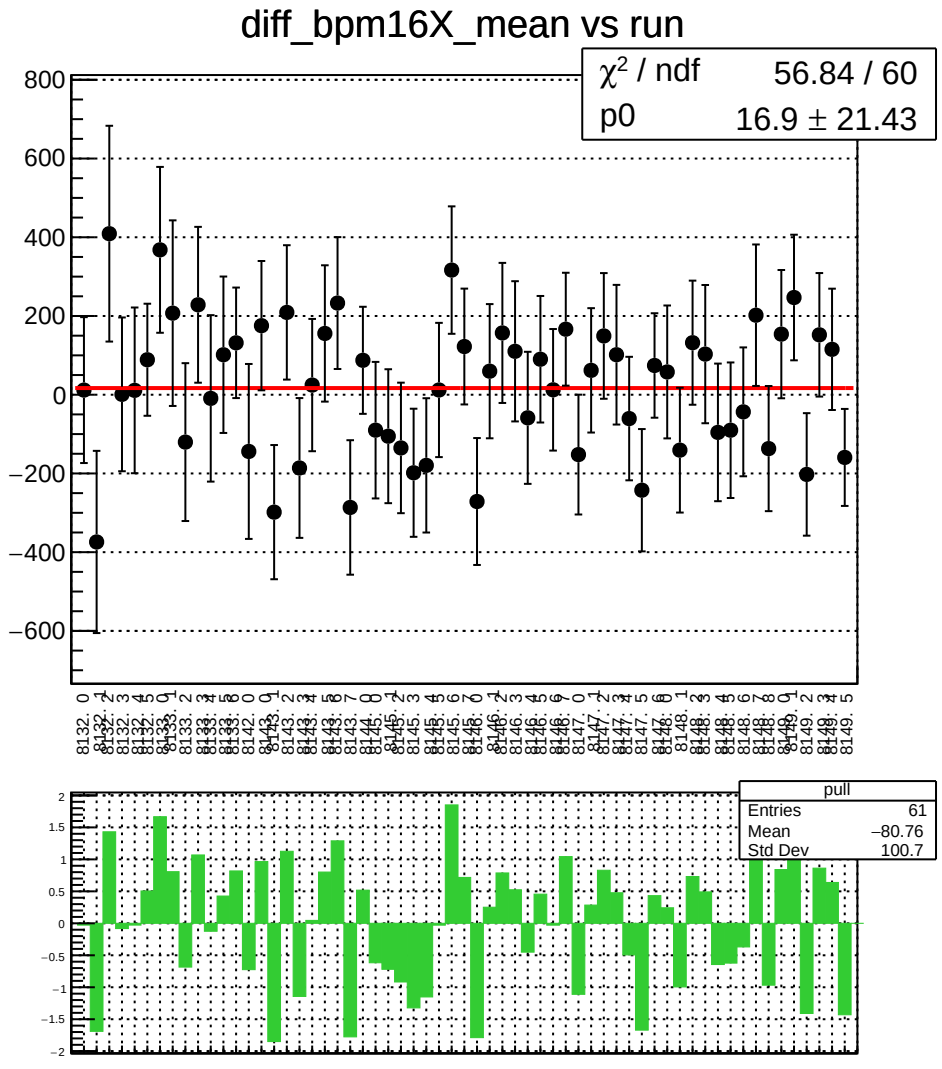

pull1D
Entries 61
Mean 0.01084
Std Dev 1.107
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

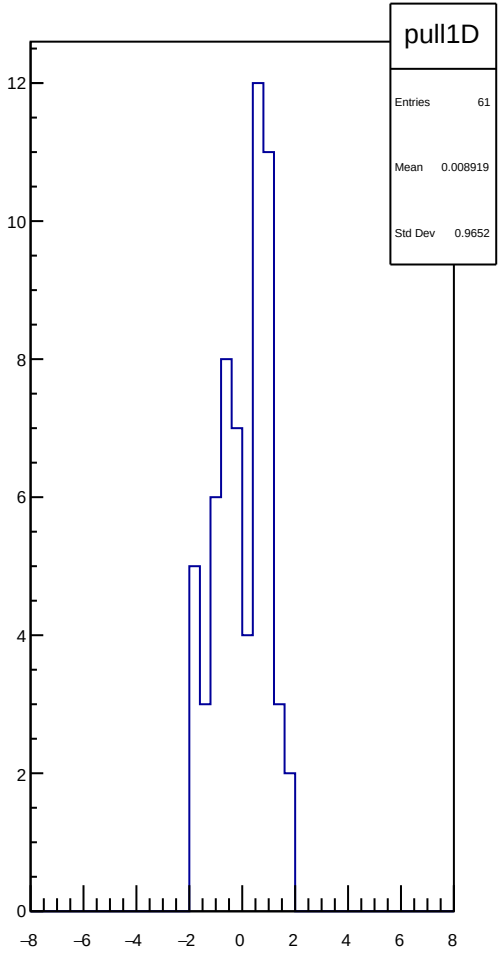

diff_bpm12X_rms vs run
χ² / ndf 7639 / 60
p0 3.856e+04 ± 35.74
60000
55000
50000
45000
40000
35000

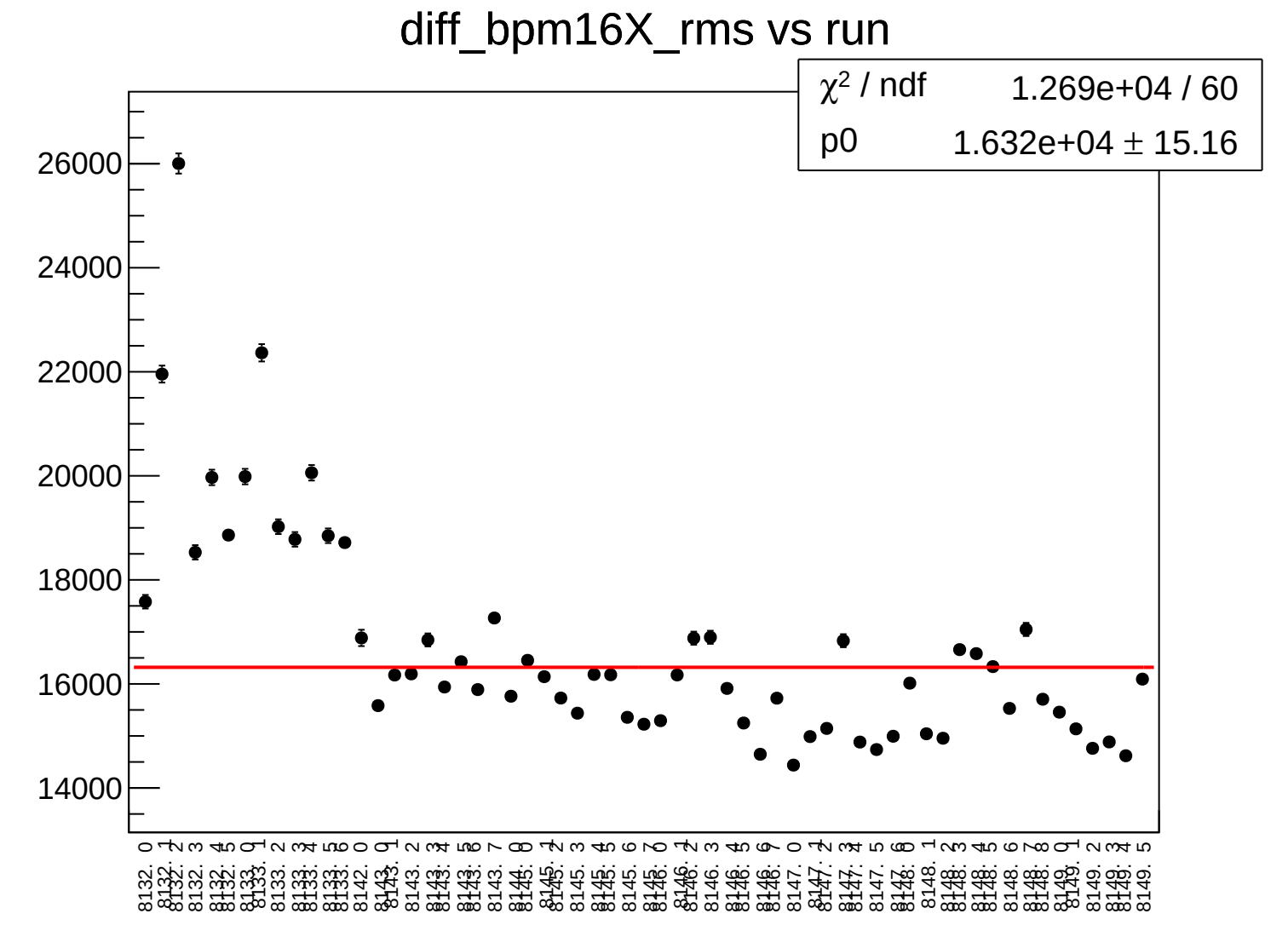

diff_bpm12Y_mean vs run
χ^2 / ndf 73.41 / 60
p0 −2 ± 2.403
pull
Entries 61
Mean −18.13
Std Dev 35.46

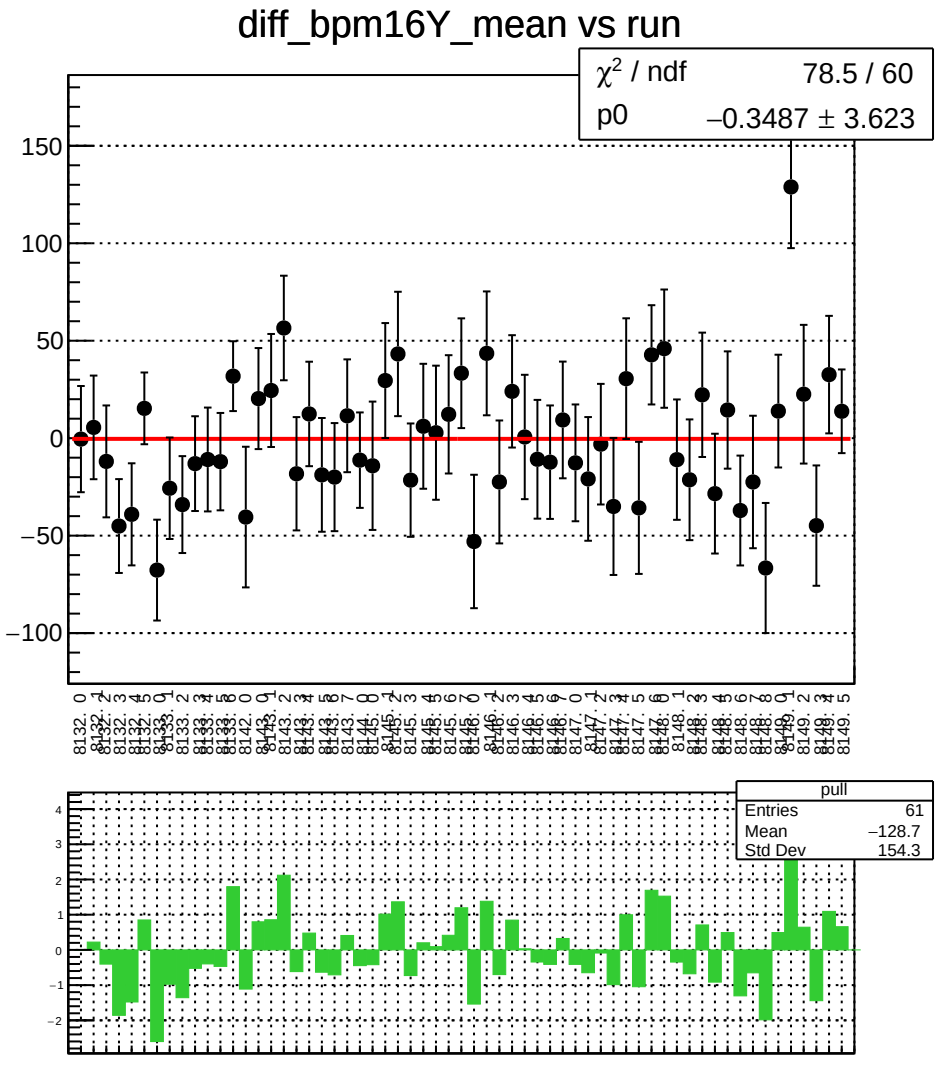

pull1D
Entries 61
Mean −0.03622
Std Dev 1.096

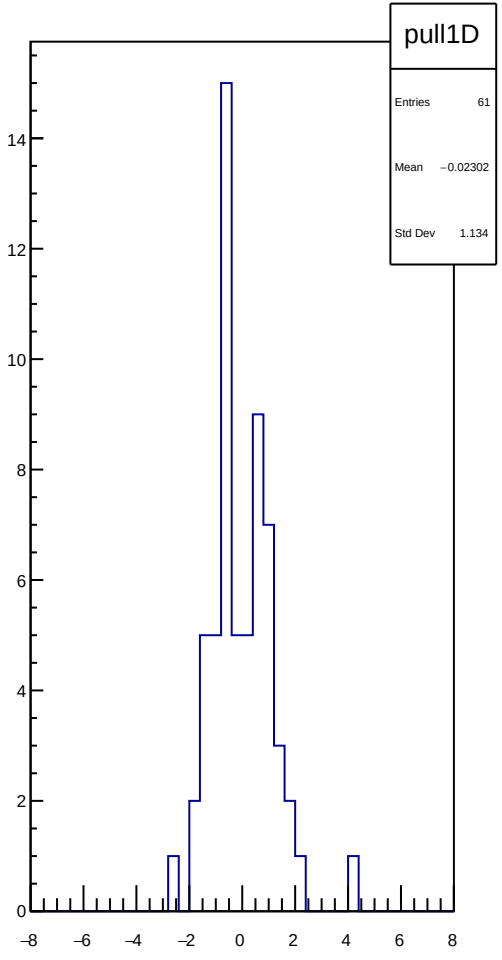

diff_bpm12Y_rms vs run
χ² / ndf 3515 / 60
p0 1837 ± 1.699
2200
2100
2000
1900
1800
1700

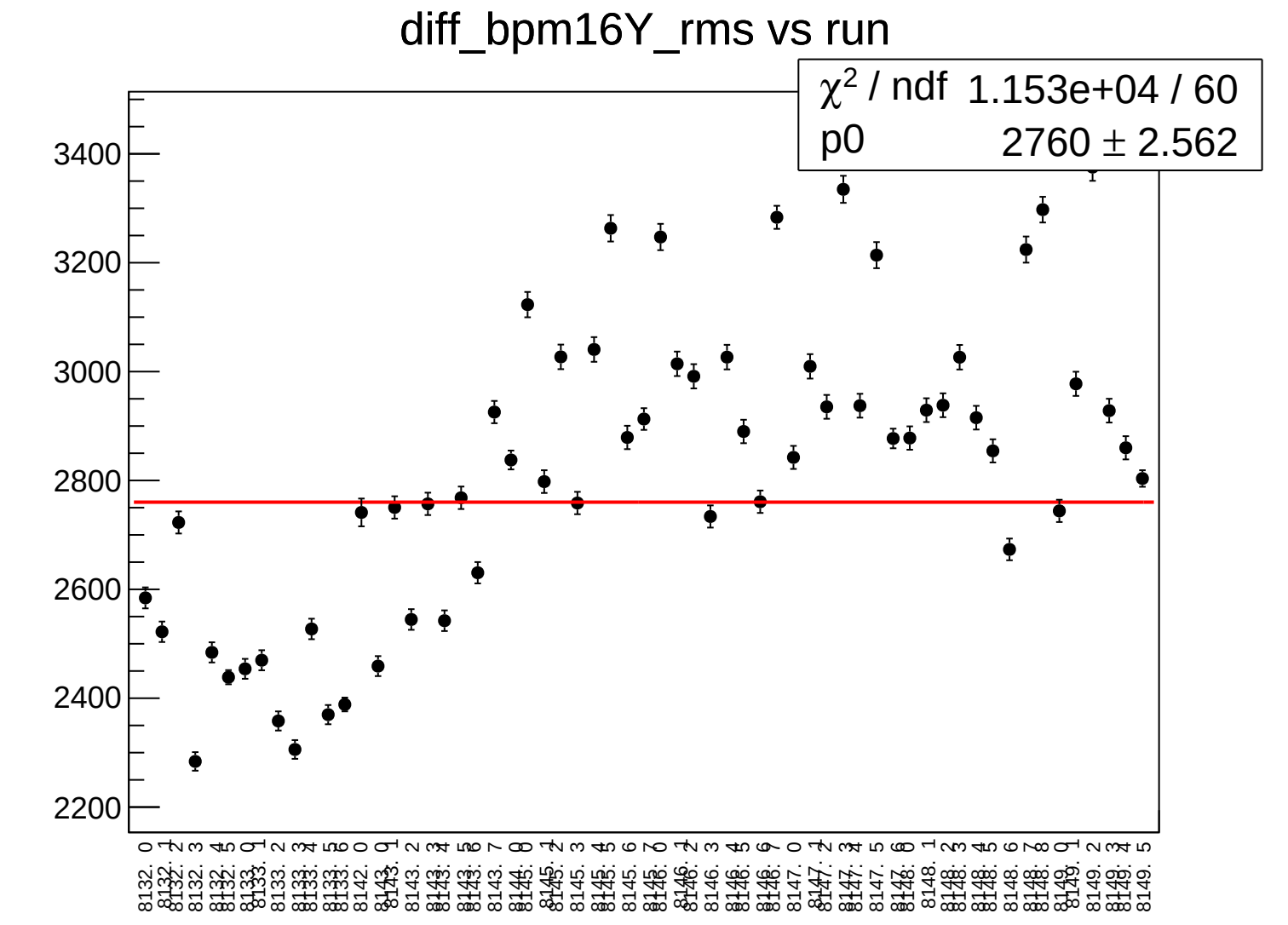

diff_bpm16X_mean vs run
χ² / ndf 56.84 / 60
p0 16.9 ± 21.43
pull
Entries 61
Mean −80.76
Std Dev 100.7

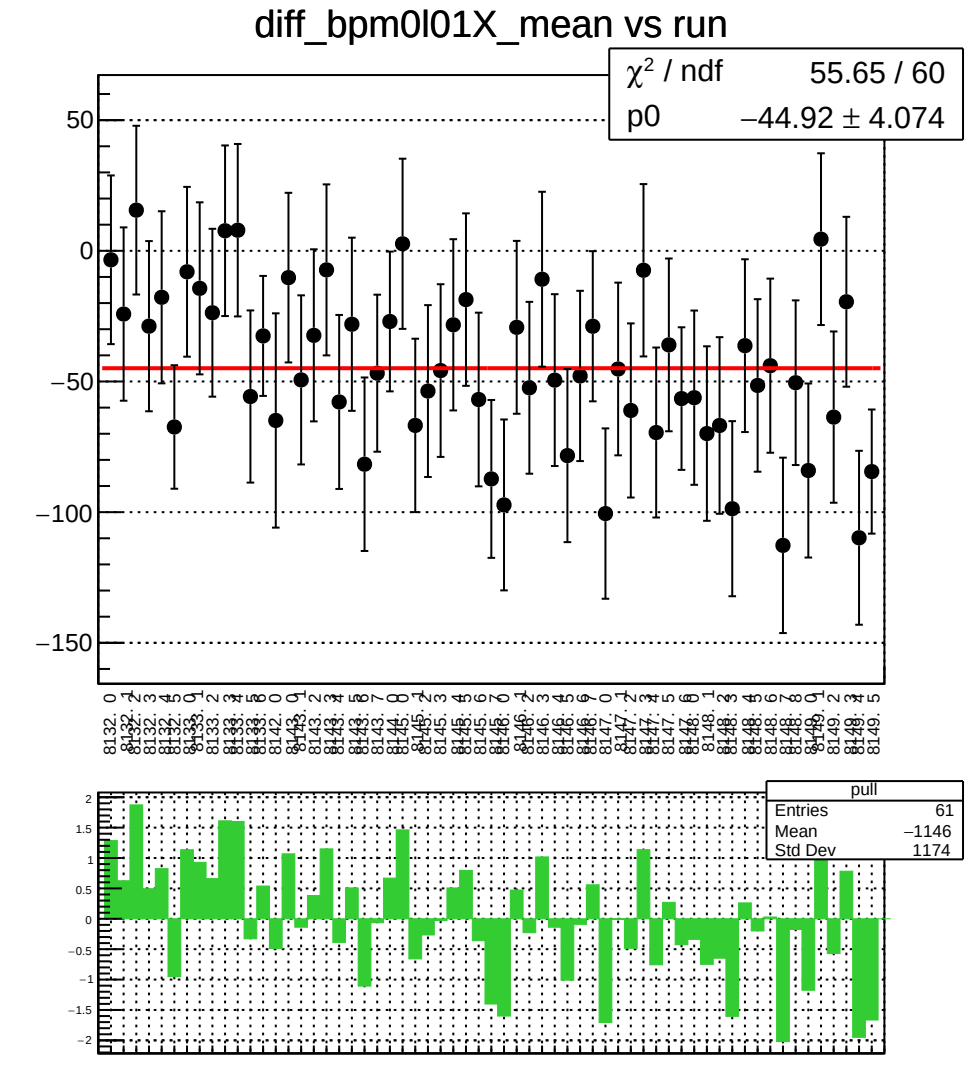

pull1D
Entries 61
Mean 0.008919
Std Dev 0.9652

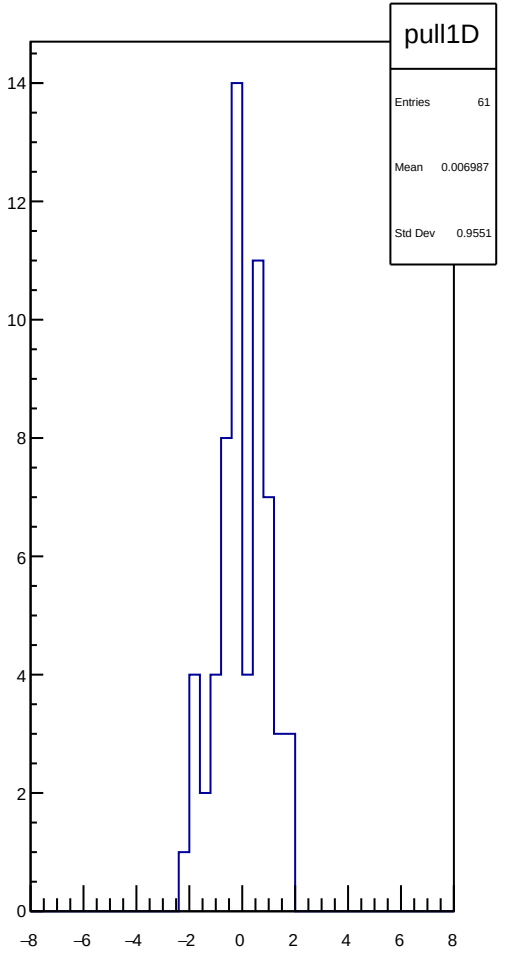

diff_bpm16X_rms vs run
χ² / ndf 1.269e+04 / 60
p0 1.632e+04 ± 15.16
26000
24000
22000
20000
18000
16000
14000

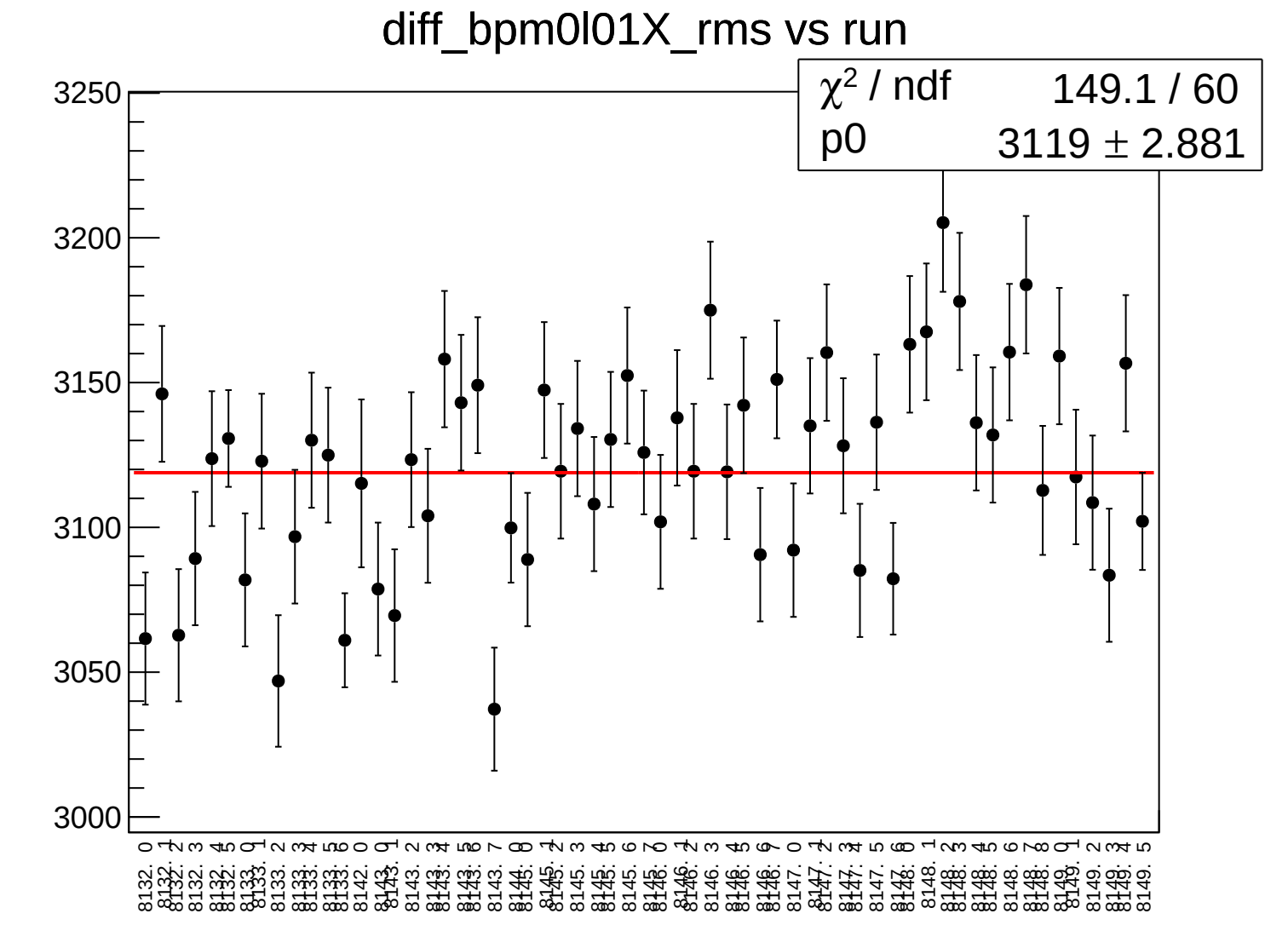

diff_bpm16Y_mean vs run
χ² / ndf 78.5 / 60
p0 −0.3487 ± 3.623
150
100
50
0
−50
−100
pull
Entries 61
Mean −128.7
Std Dev 154.3
4
3
2
1
0
−1
−2

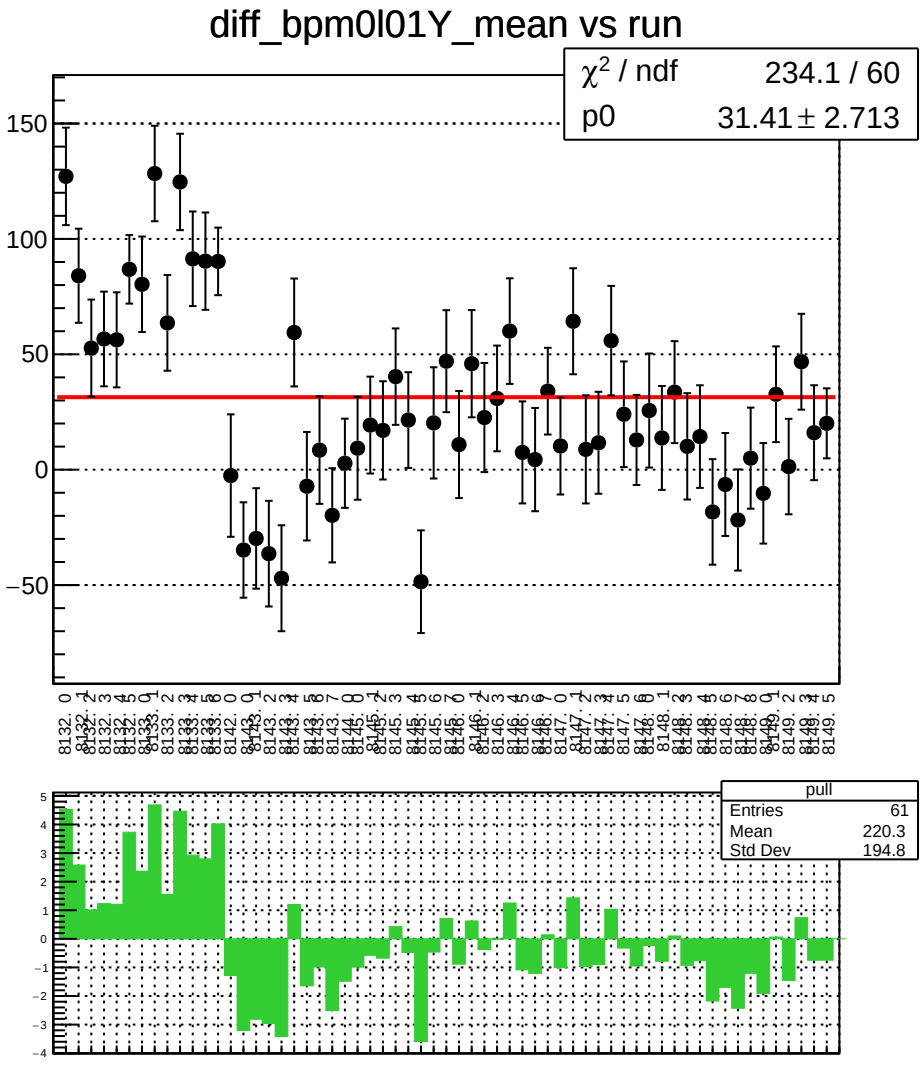

pull1D
Entries 61
Mean −0.02302
Std Dev 1.134
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

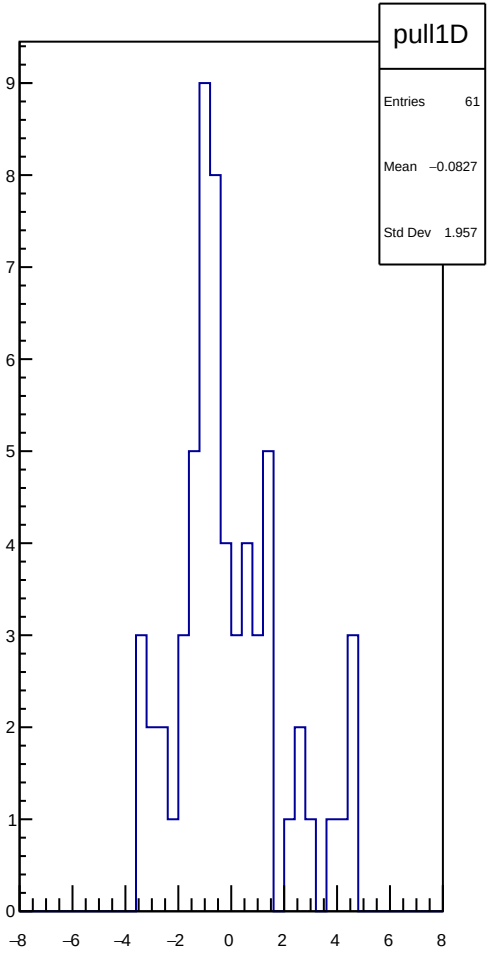

diff_bpm16Y_rms vs run
χ² / ndf 1.153e+04 / 60
p0 2760 ± 2.562
3400
3200
3000
2800
2600
2400
2200

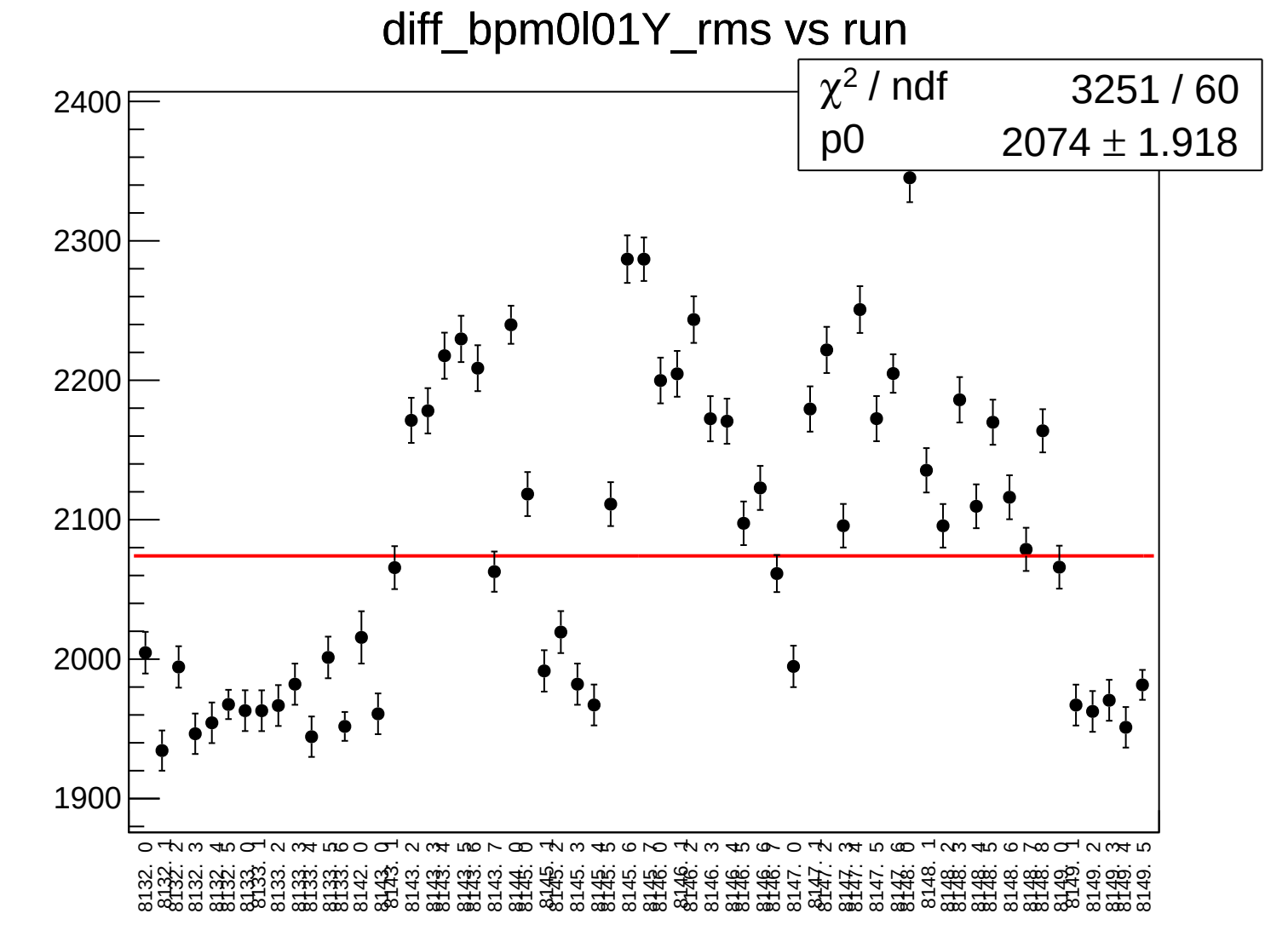

diff_bpm0l01X_mean vs run
χ² / ndf 55.65 / 60
p0 −44.92 ± 4.074
pull
Entries 61
Mean −1146
Std Dev 1174

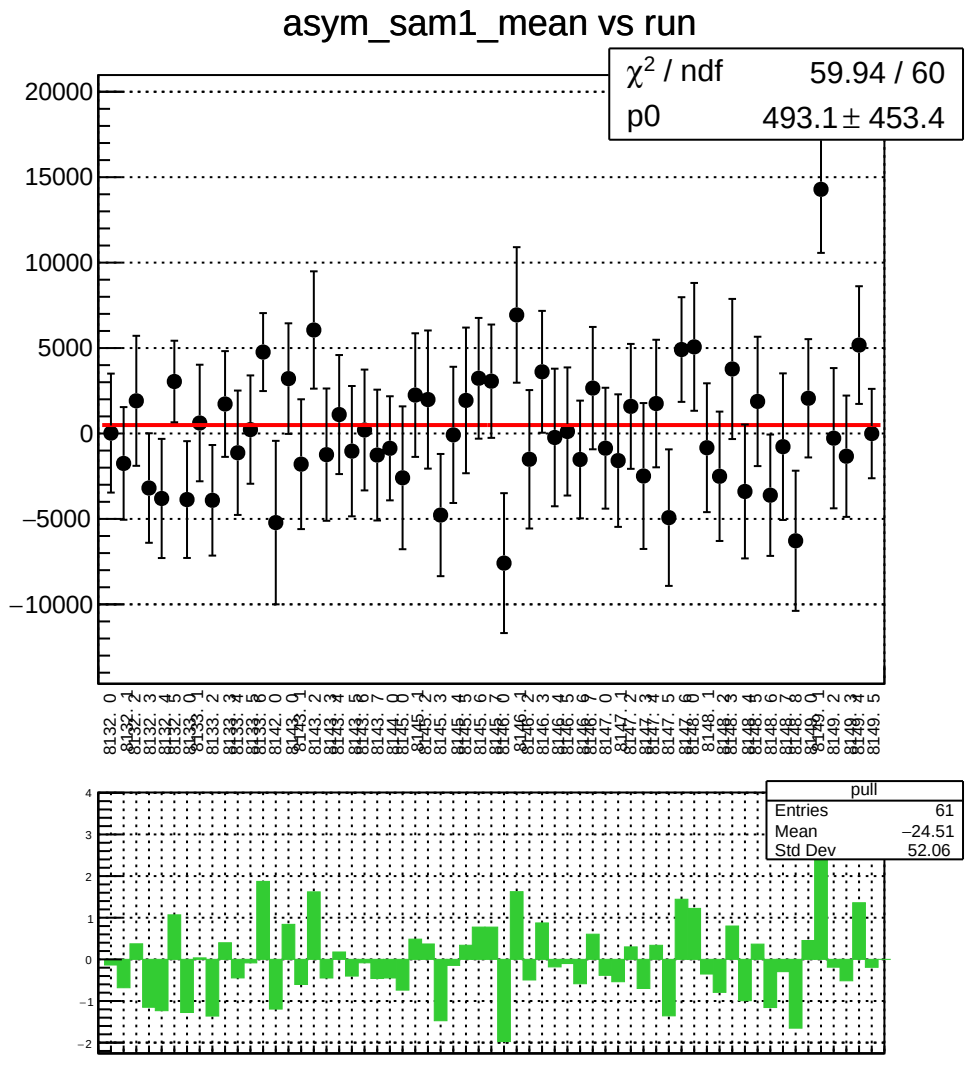

pull1D
Entries 61
Mean 0.006987
Std Dev 0.9551

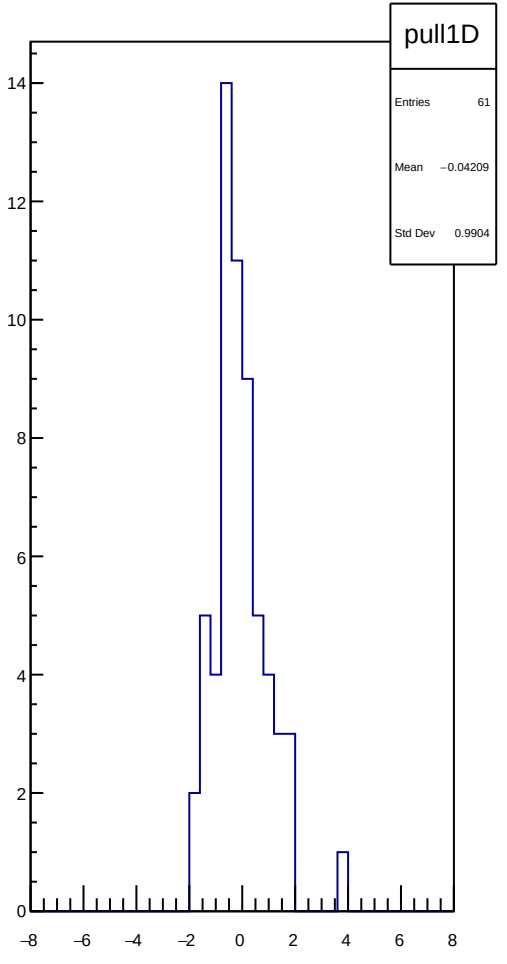

diff_bpm0l01X_rms vs run
χ² / ndf 149.1 / 60
p0 3119 ± 2.881
3250
3200
3150
3100
3050
3000

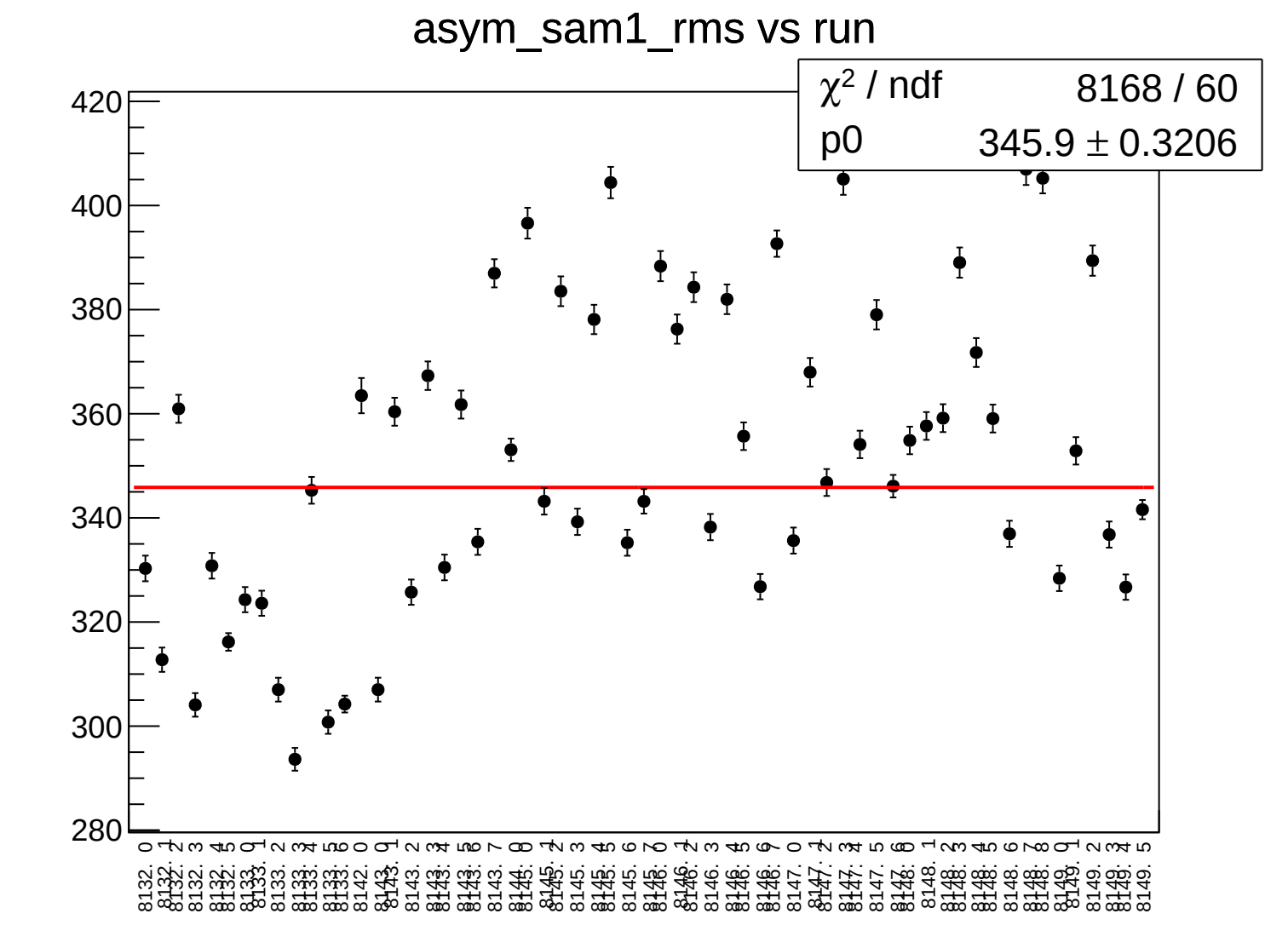

diff_bpm0l01Y_mean vs run
χ^2 / ndf 234.1 / 60
p0 31.41 ± 2.713
150
100
50
0
−50
pull
Entries 61
Mean 220.3
Std Dev 194.8
5
4
3
2
1
0
−1
−2
−3
−4

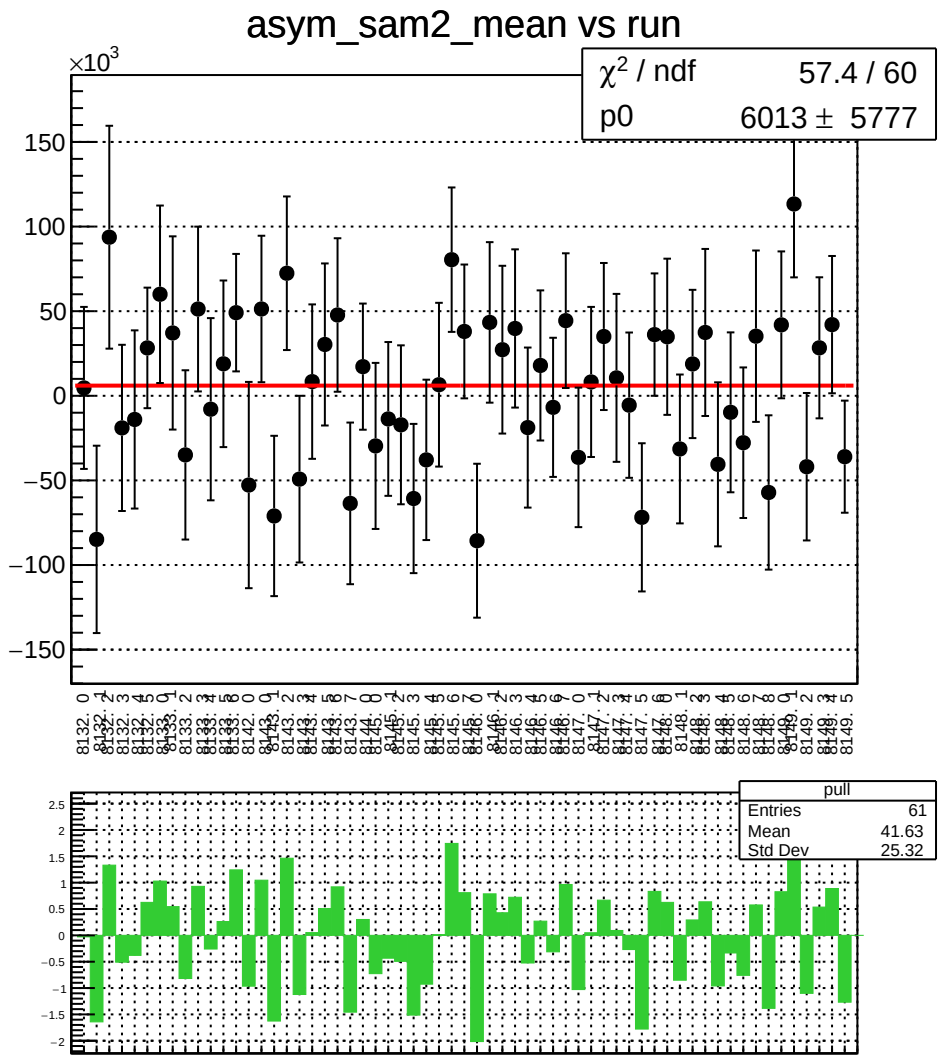

pull1D
Entries 61
Mean −0.0827
Std Dev 1.957
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

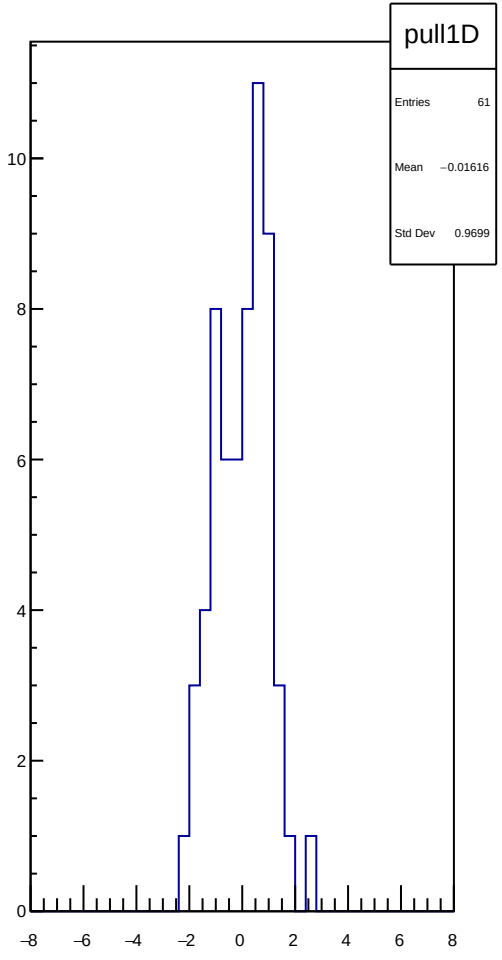

diff_bpm0l01Y_rms vs run
χ² / ndf 3251 / 60
p0 2074 ± 1.918
2400
2300
2200
2100
2000
1900

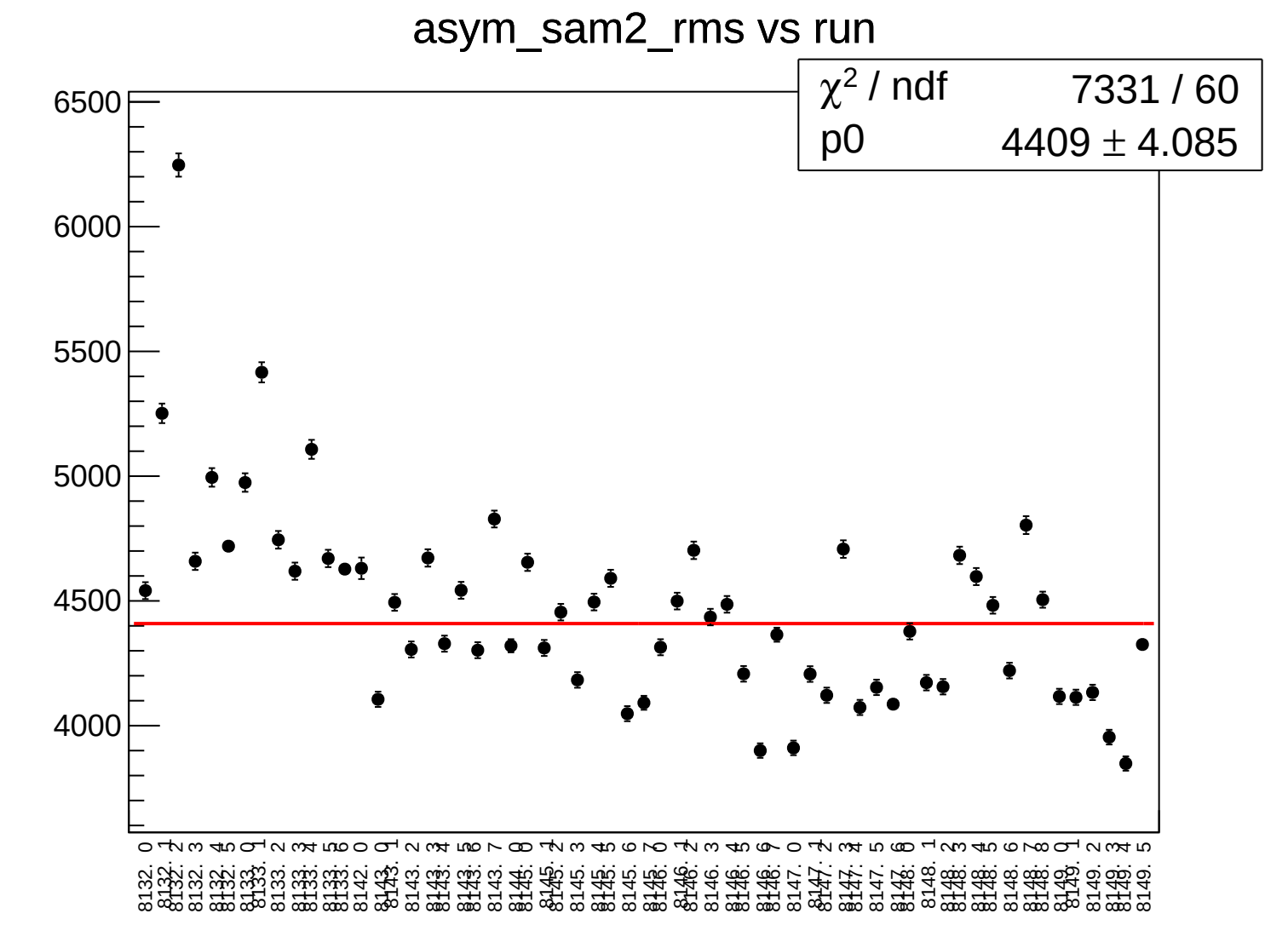

asym_sam1_mean vs run
χ² / ndf 59.94 / 60
p0 493.1 ± 453.4
pull
Entries 61
Mean −24.51
Std Dev 52.06

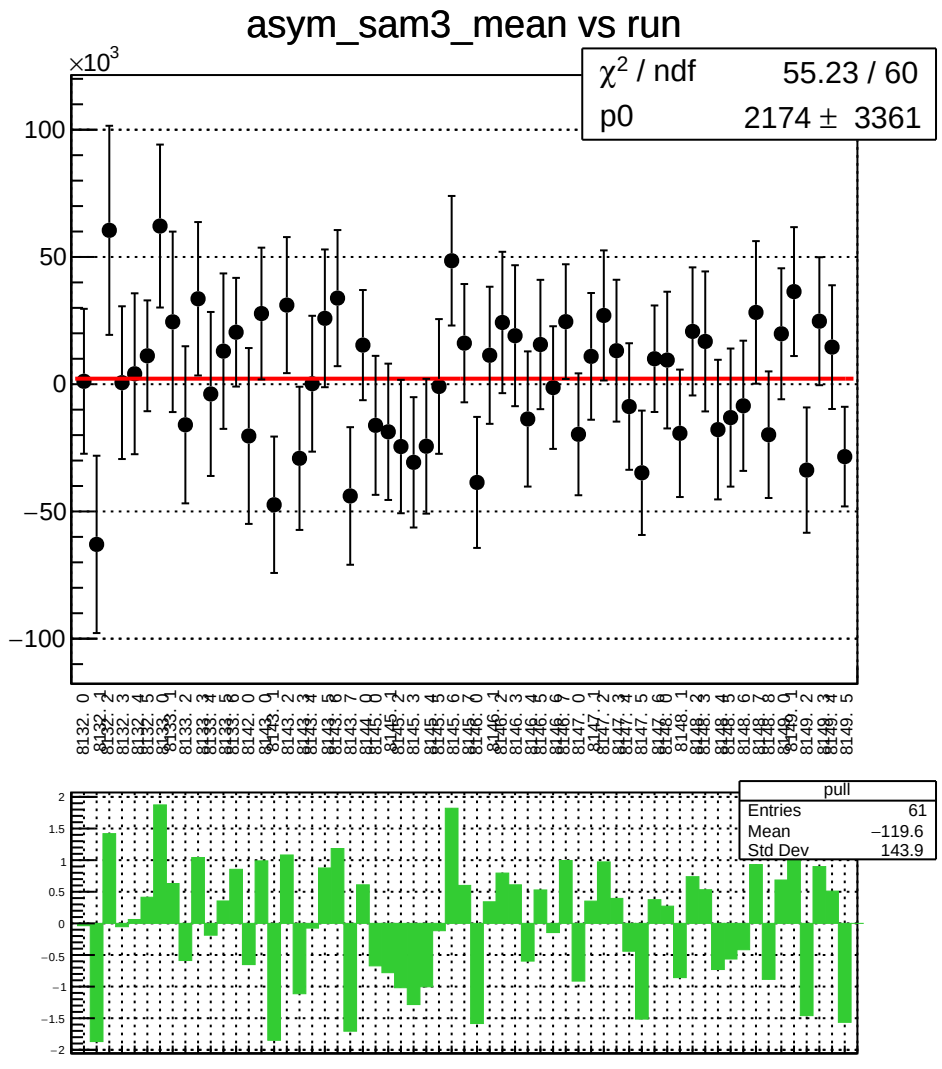

pull1D
Entries 61
Mean −0.04209
Std Dev 0.9904

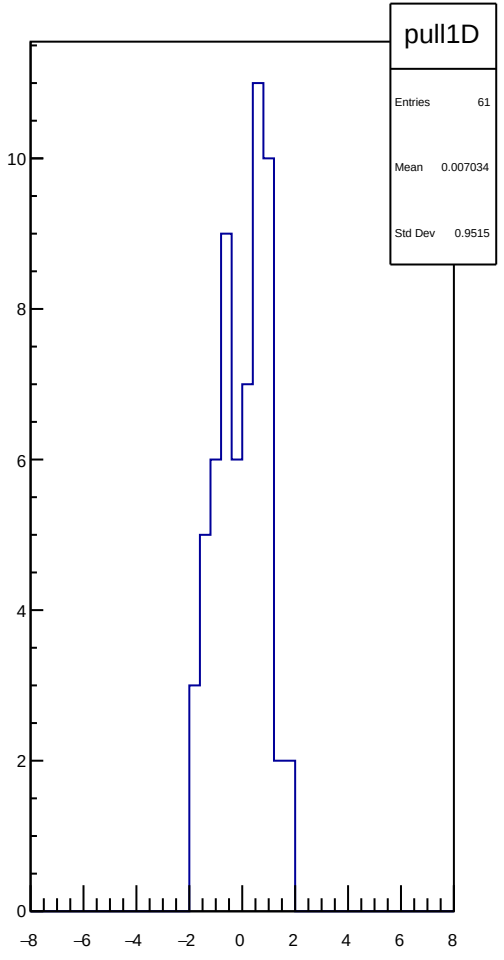

asym_sam1_rms vs run
χ² / ndf 8168 / 60
p0 345.9 ± 0.3206
420
400
380
360
340
320
300
280

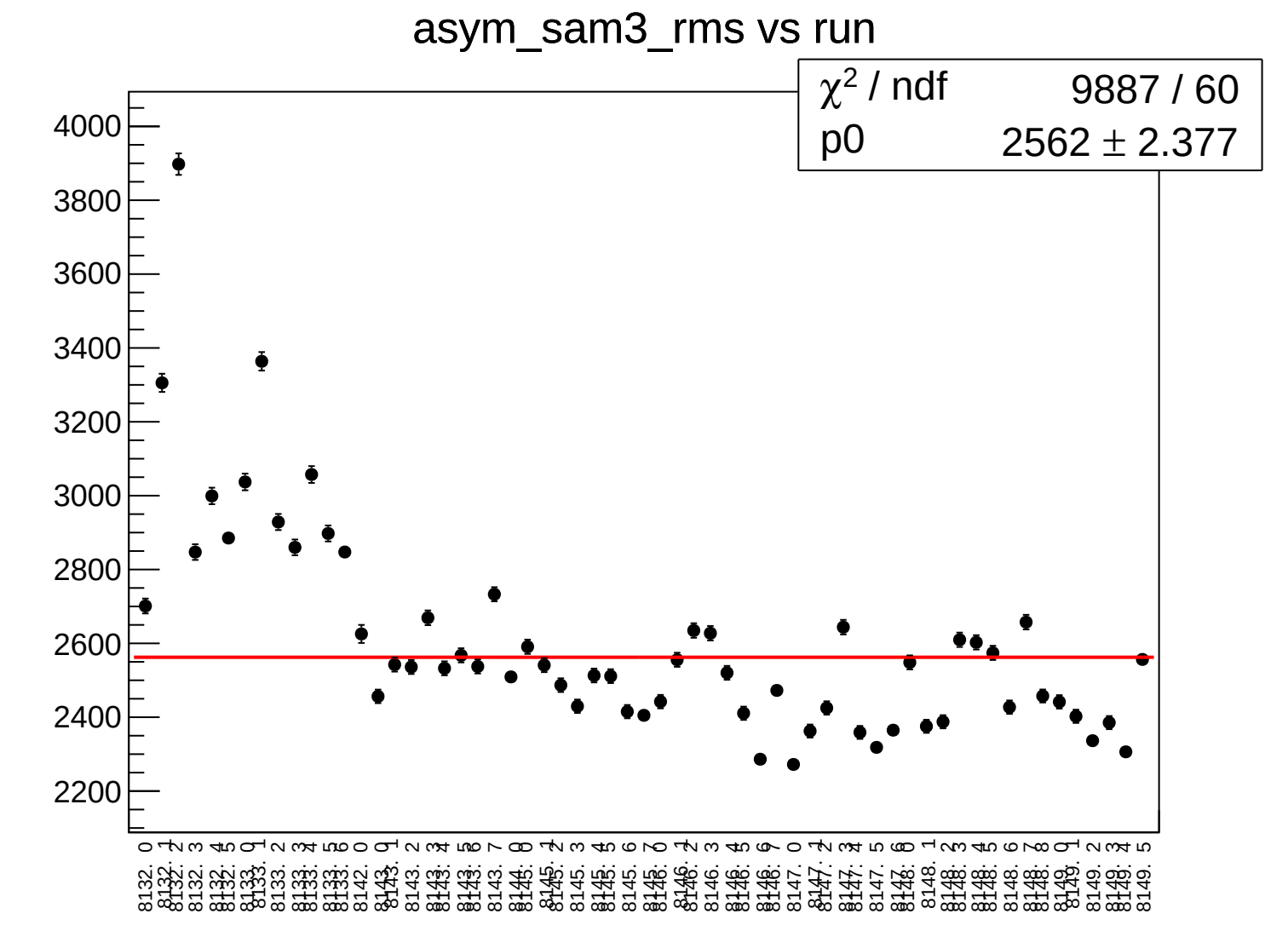

asym_sam2_mean vs run
×10^3
χ^2 / ndf 57.4 / 60
p0 6013 ± 5777
150
100
50
0
−50
−100
−150
pull
Entries 61
Mean 41.63
Std Dev 25.32
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

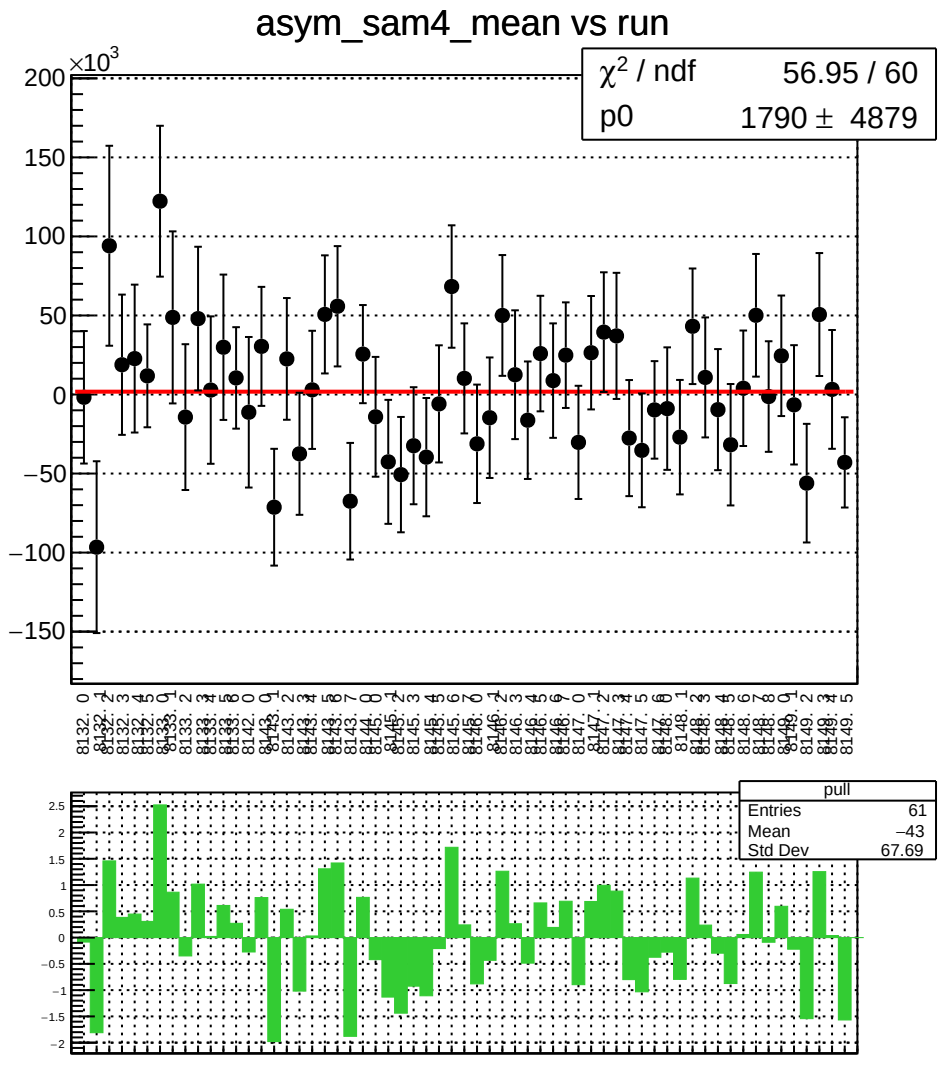

pull1D
Entries 61
Mean −0.01616
Std Dev 0.9699
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

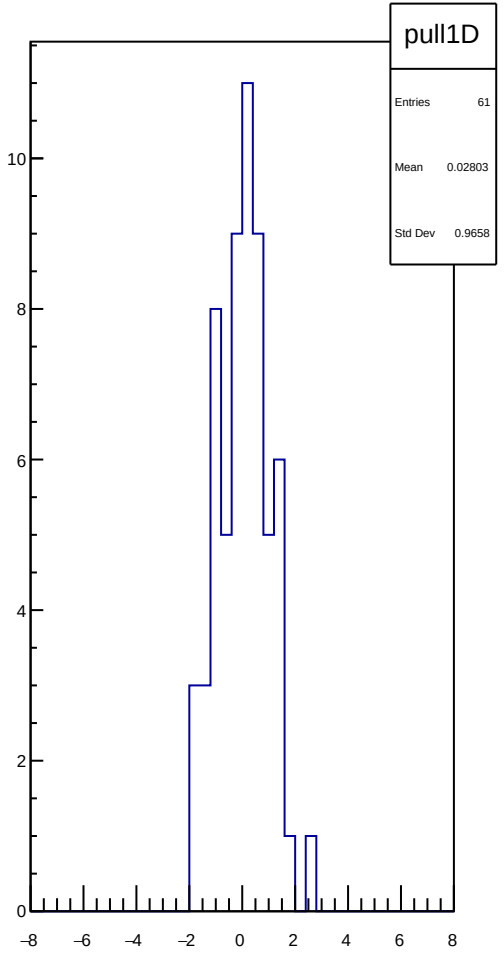

asym_sam2_rms vs run
χ² / ndf 7331 / 60
p0 4409 ± 4.085
6500
6000
5500
5000
4500
4000

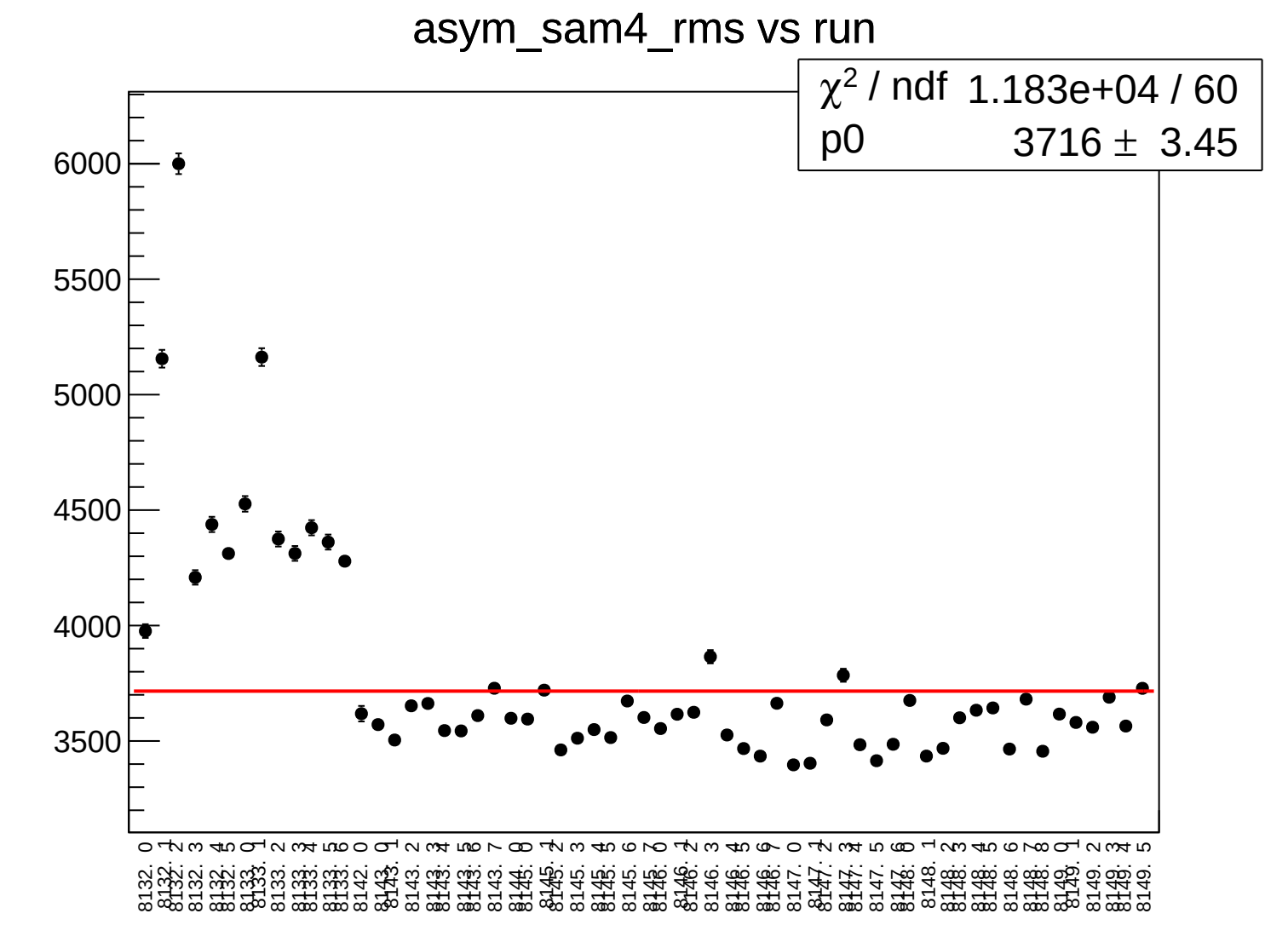

asym_sam3_mean vs run
×10^3
χ² / ndf 55.23 / 60
p0 2174 ± 3361
100
50
0
−50
−100
pull
Entries 61
Mean −119.6
Std Dev 143.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

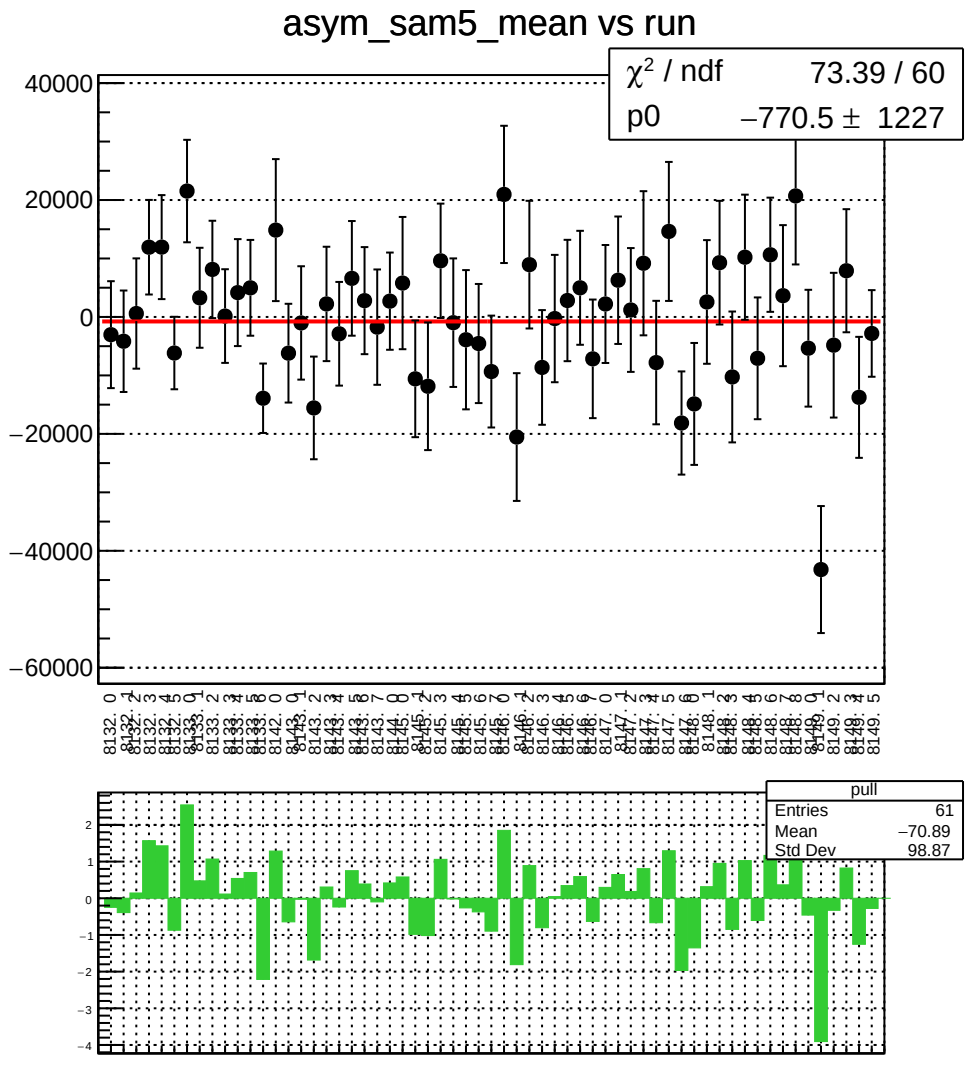

pull1D
Entries 61
Mean 0.007034
Std Dev 0.9515
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

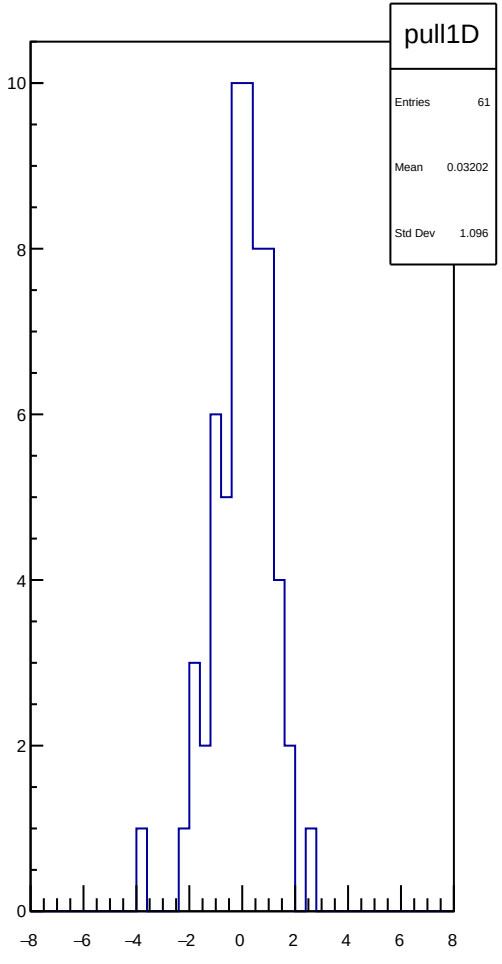

asym_sam3_rms vs run
χ² / ndf 9887 / 60
p0 2562 ± 2.377
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

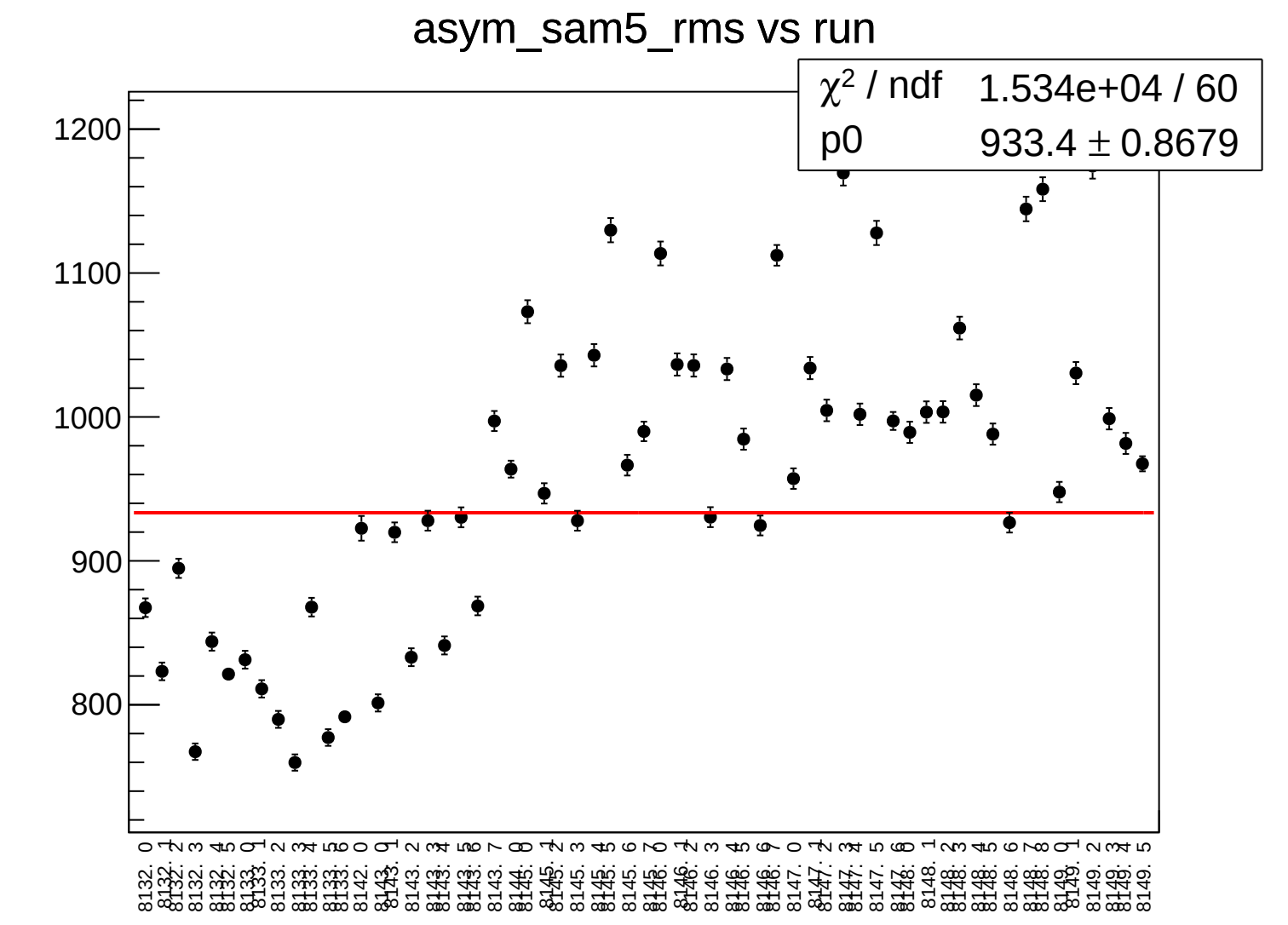

asym_sam4_mean vs run
χ² / ndf 56.95 / 60
p0 1790 ± 4879
×10³
pull
Entries 61
Mean −43
Std Dev 67.69

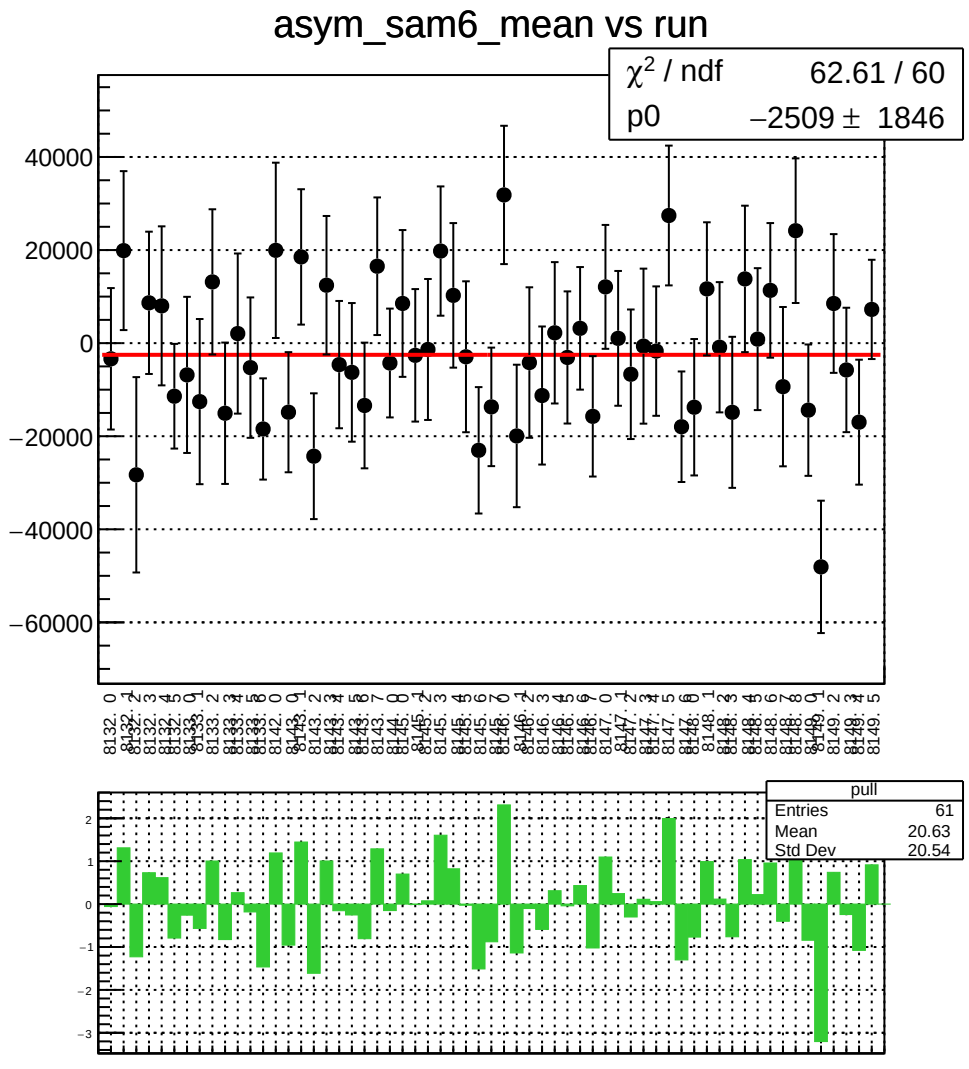

pull1D
Entries 61
Mean 0.02803
Std Dev 0.9658

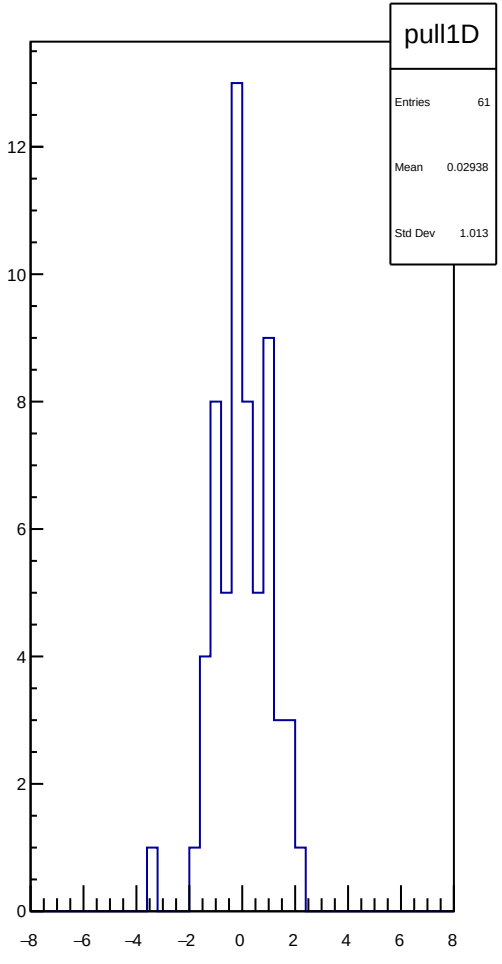

asym_sam4_rms vs run
χ² / ndf 1.183e+04 / 60
p0 3716 ± 3.45
6000
5500
5000
4500
4000
3500

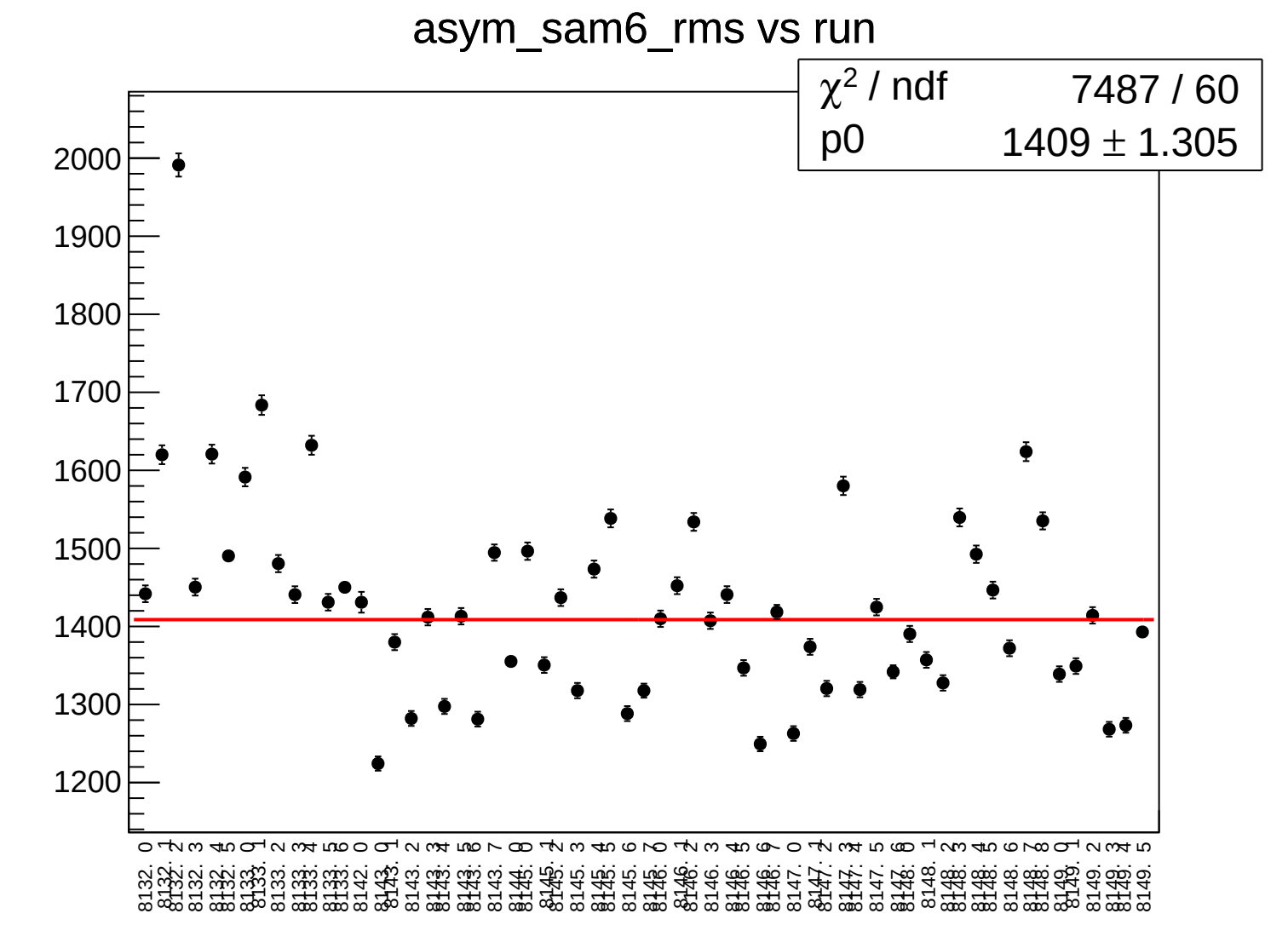

asym_sam5_mean vs run
χ² / ndf 73.39 / 60
p0 −770.5 ± 1227
40000
20000
0
−20000
−40000
−60000
pull
Entries 61
Mean −70.89
Std Dev 98.87
2
1
0
−1
−2
−3
−4

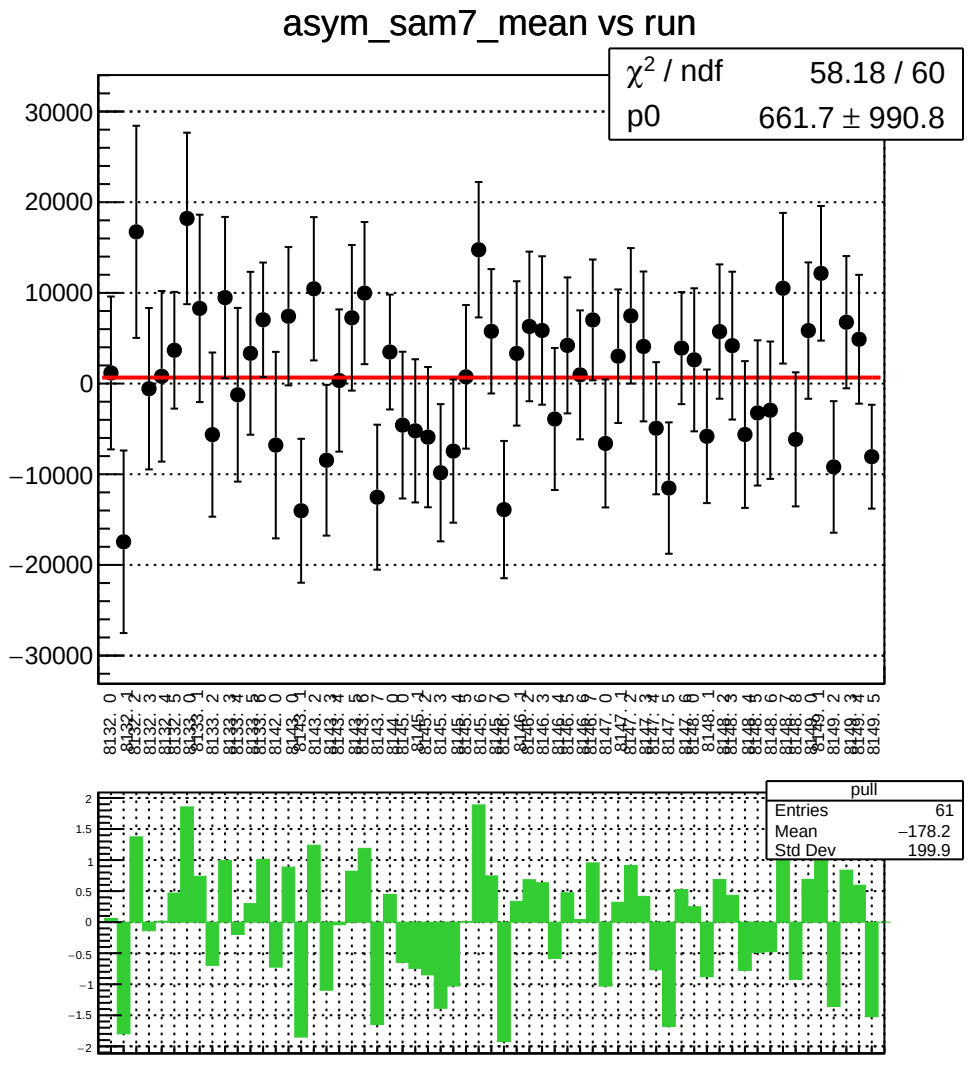

pull1D
Entries 61
Mean 0.03202
Std Dev 1.096
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

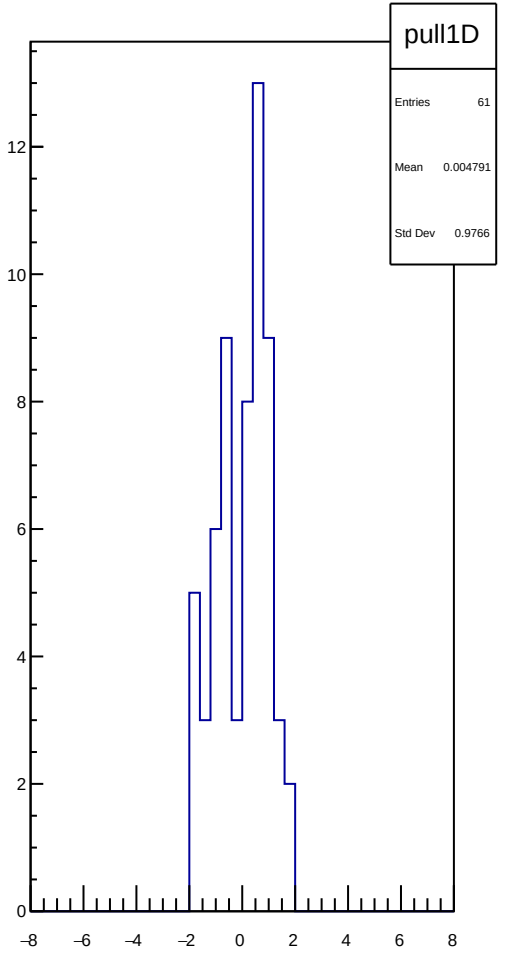

asym_sam5_rms vs run
χ² / ndf 1.534e+04 / 60
p0 933.4 ± 0.8679
1200
1100
1000
900
800

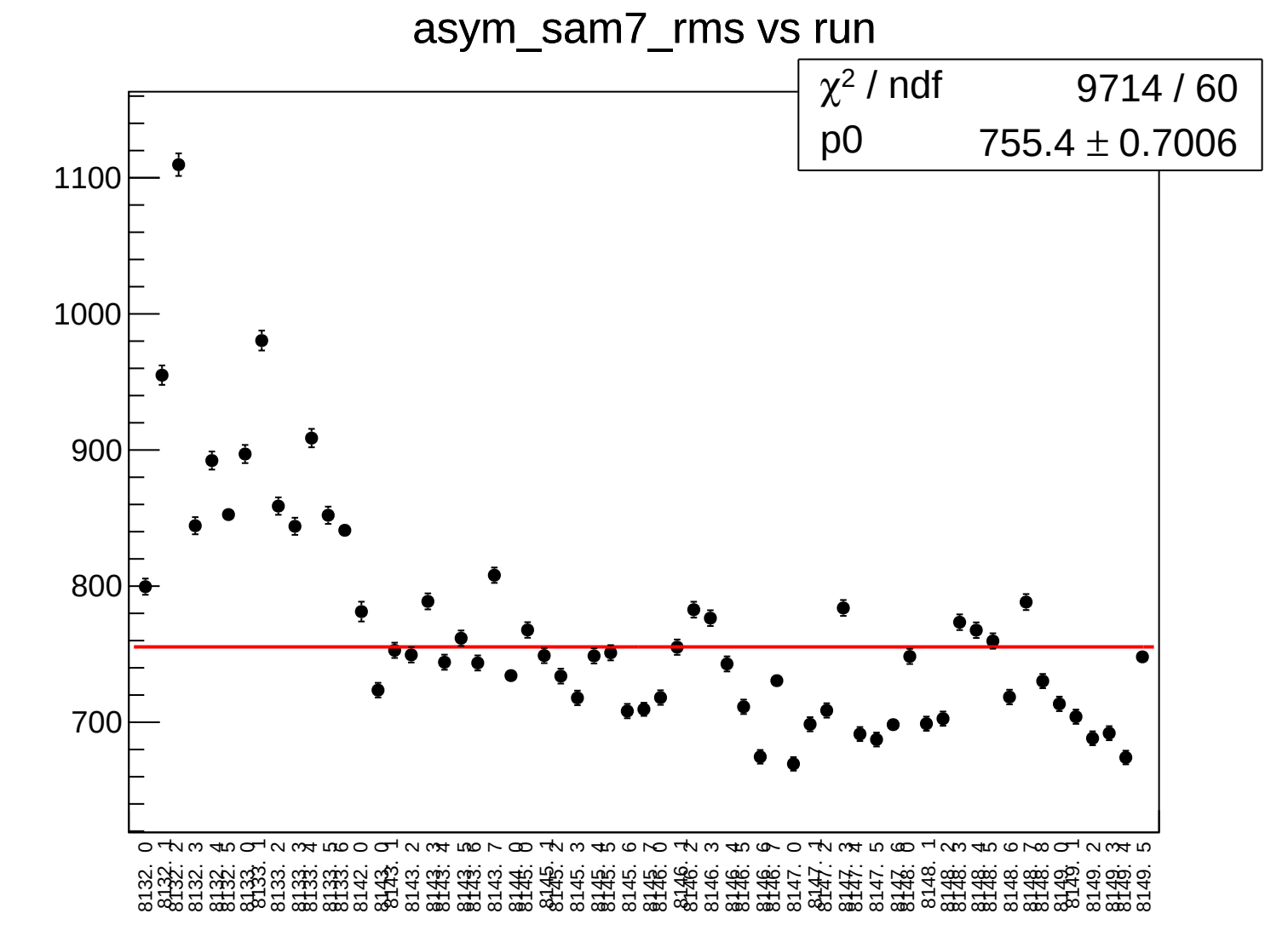

asym_sam6_mean vs run
χ² / ndf 62.61 / 60
p0 −2509 ± 1846
40000
20000
0
−20000
−40000
−60000
pull
Entries 61
Mean 20.63
Std Dev 20.54
2
1
0
−1
−2
−3

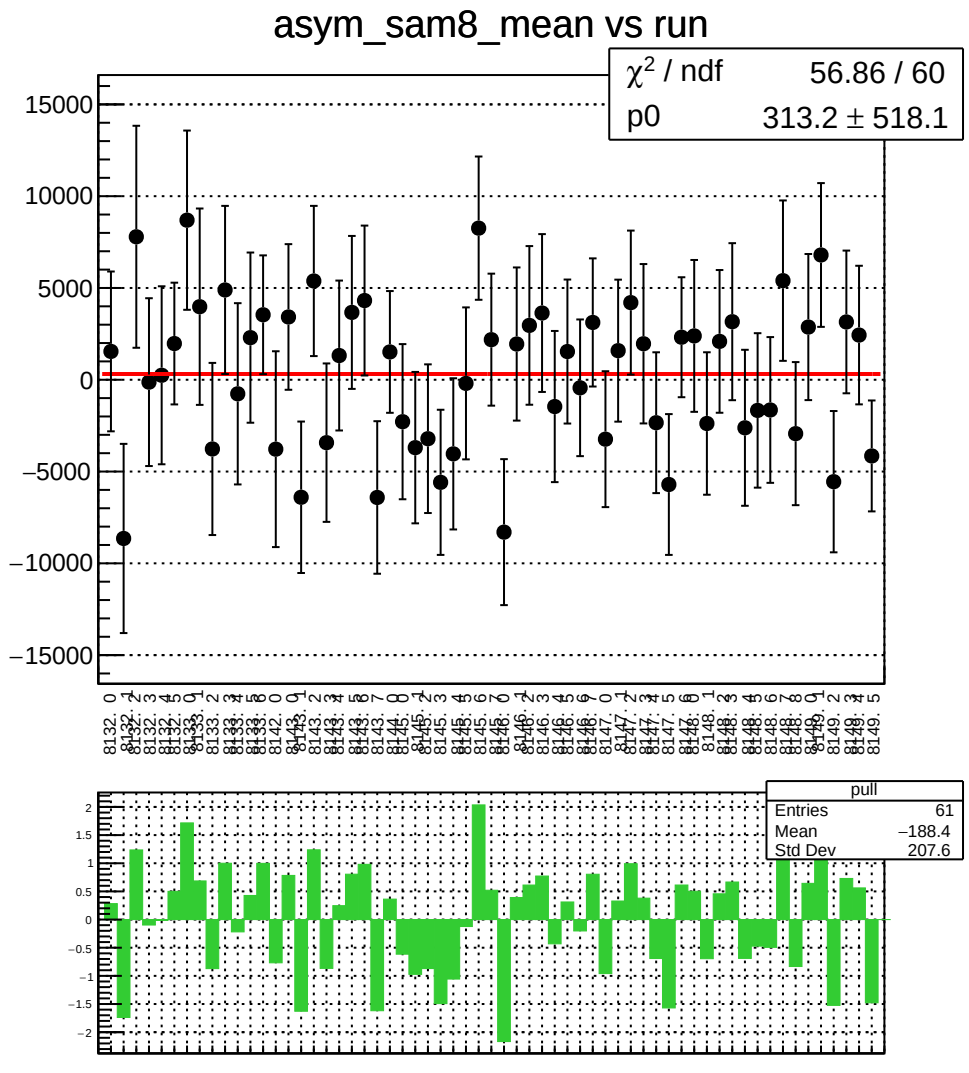

pull1D
Entries 61
Mean 0.02938
Std Dev 1.013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

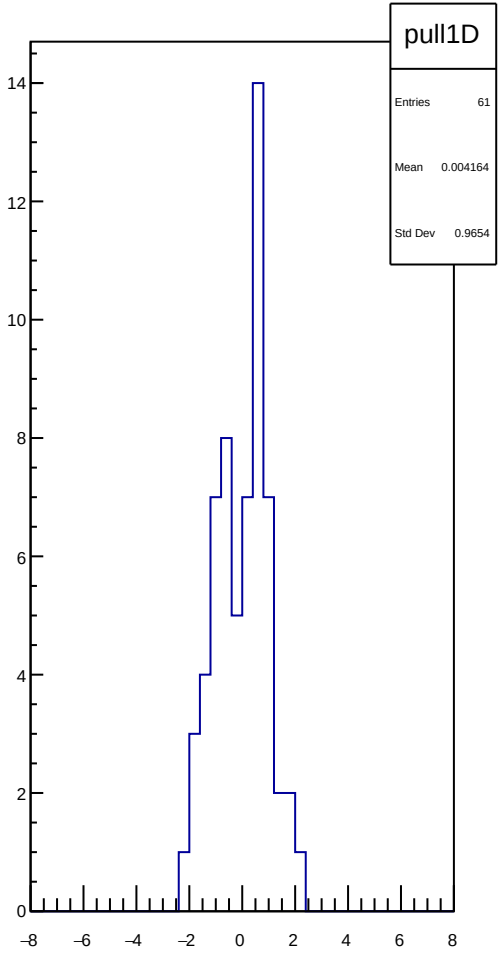

asym_sam6_rms vs run
χ^2 / ndf 7487 / 60
p0 1409 ± 1.305
2000
1900
1800
1700
1600
1500
1400
1300
1200

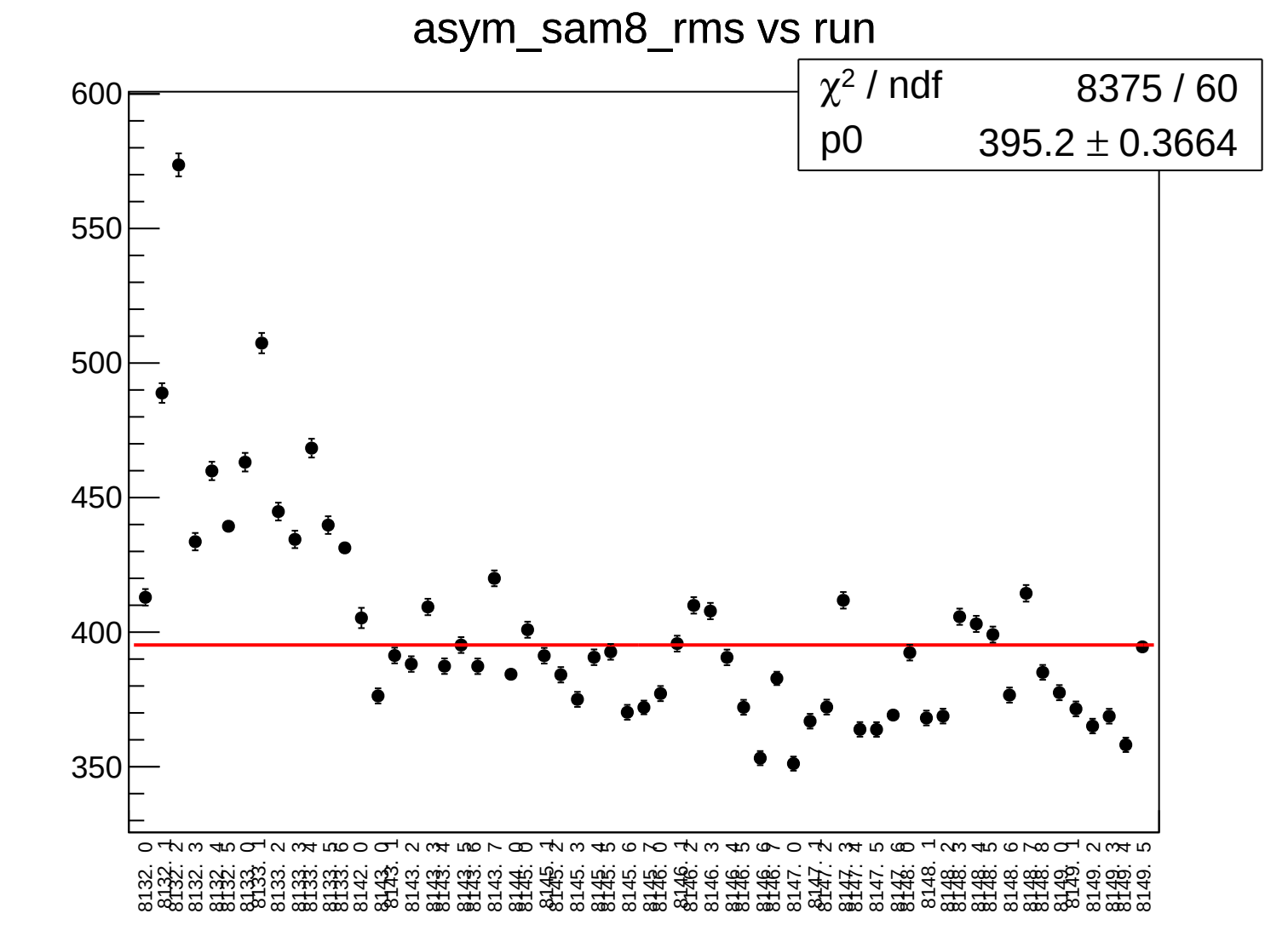

asym_sam7_mean vs run
χ² / ndf 58.18 / 60
p0 661.7 ± 990.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 61
Mean −178.2
Std Dev 199.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

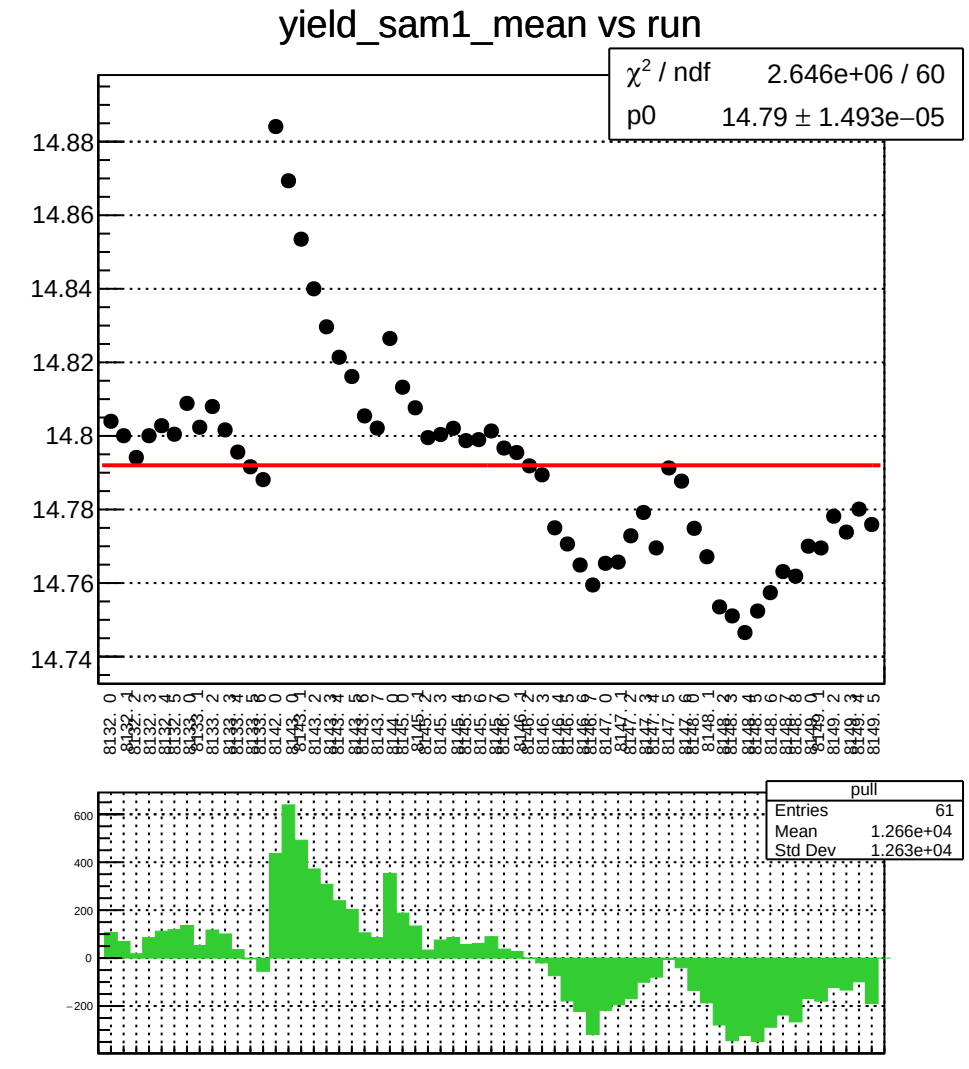

pull1D
Entries 61
Mean 0.004791
Std Dev 0.9766
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

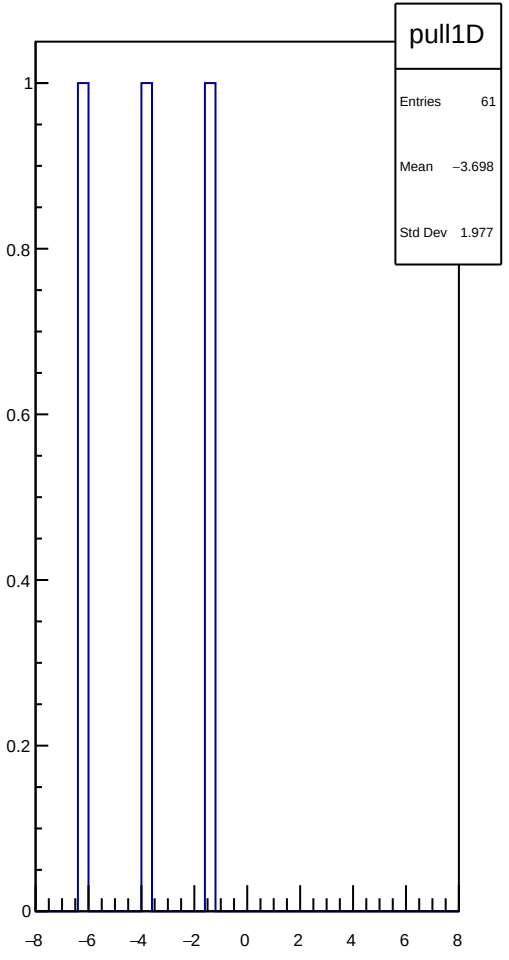

asym_sam7_rms vs run
χ² / ndf 9714 / 60
p0 755.4 ± 0.7006
1100
1000
900
800
700

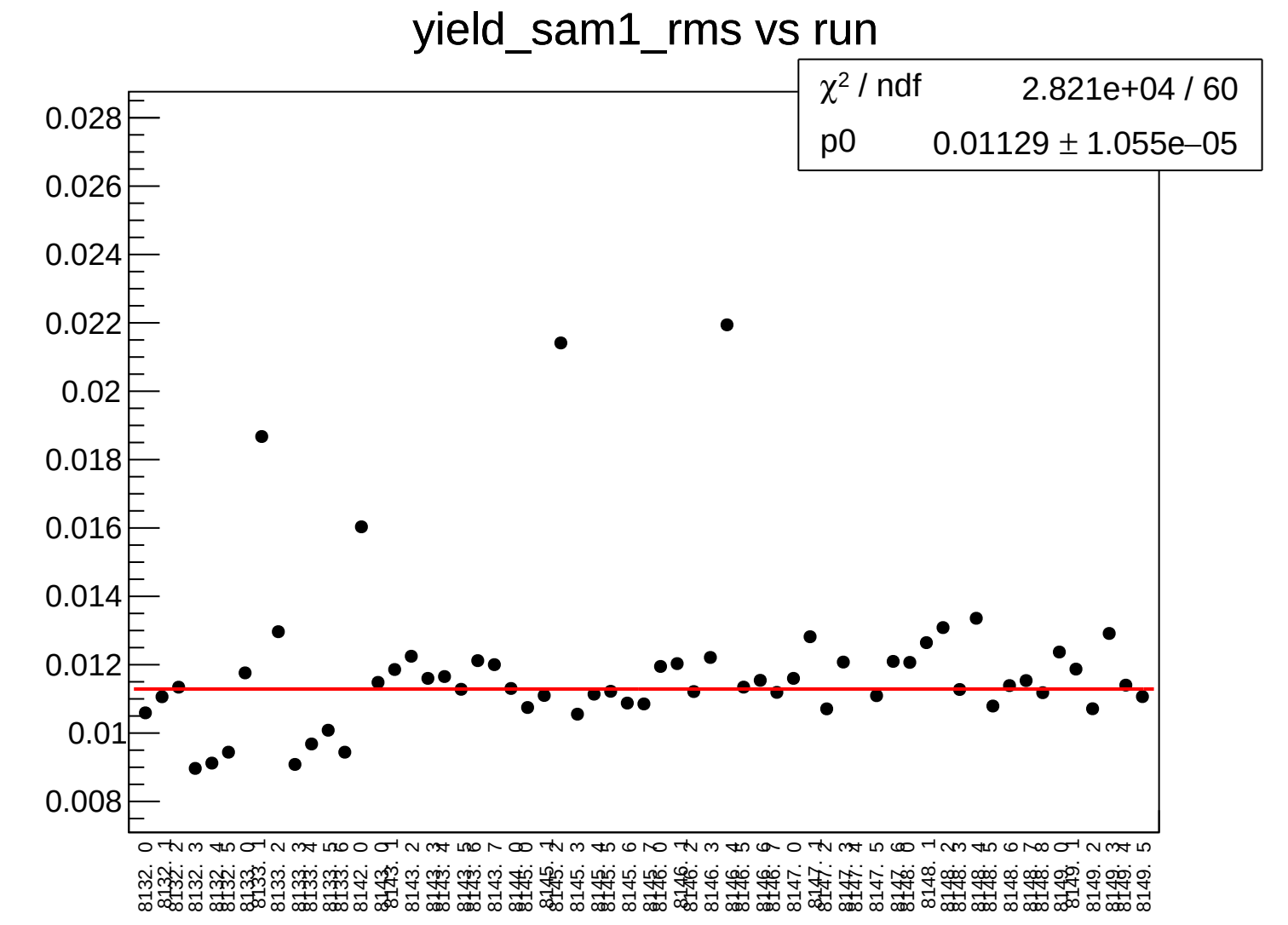

asym_sam8_mean vs run
χ^2 / ndf 56.86 / 60
p0 313.2 ± 518.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 61
Mean −188.4
Std Dev 207.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

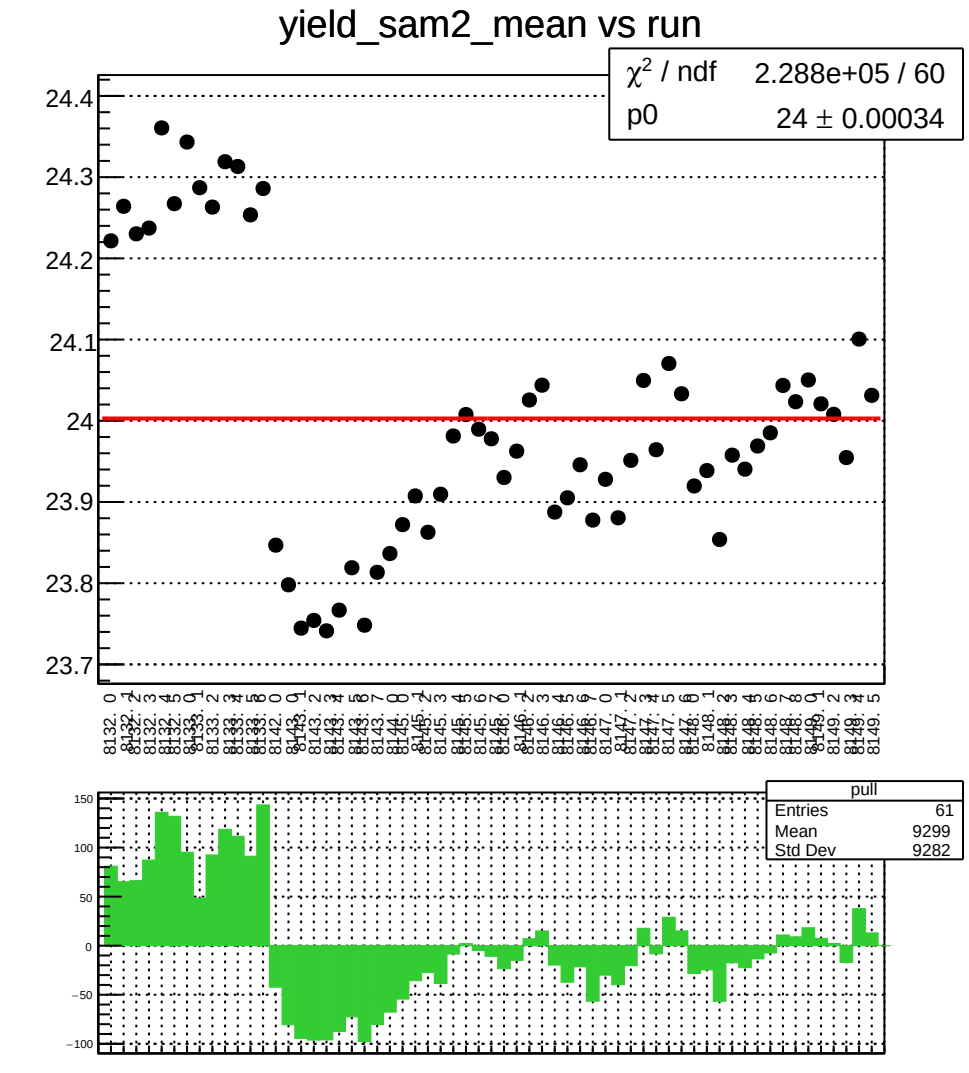

pull1D
Entries 61
Mean 0.004164
Std Dev 0.9654
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

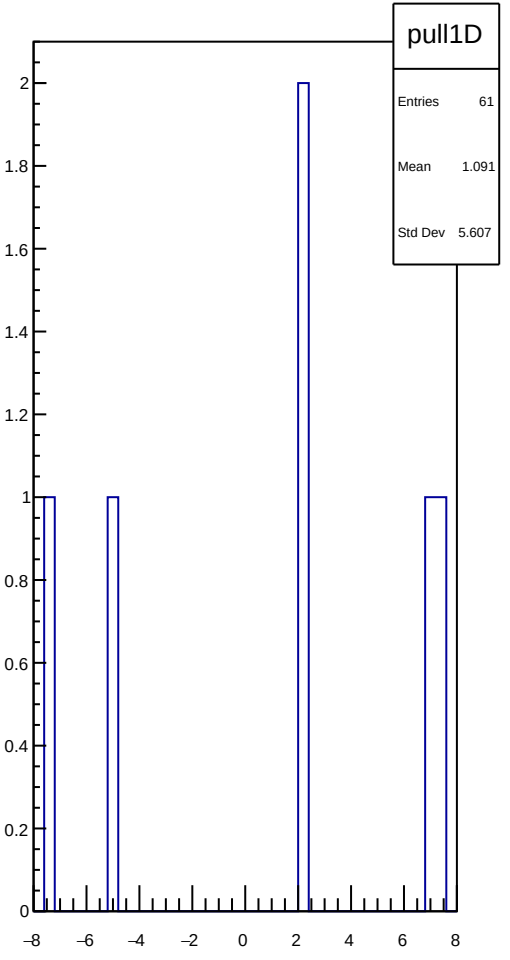

asym_sam8_rms vs run
χ^2 / ndf 8375 / 60
p0 395.2 ± 0.3664
600
550
500
450
400
350

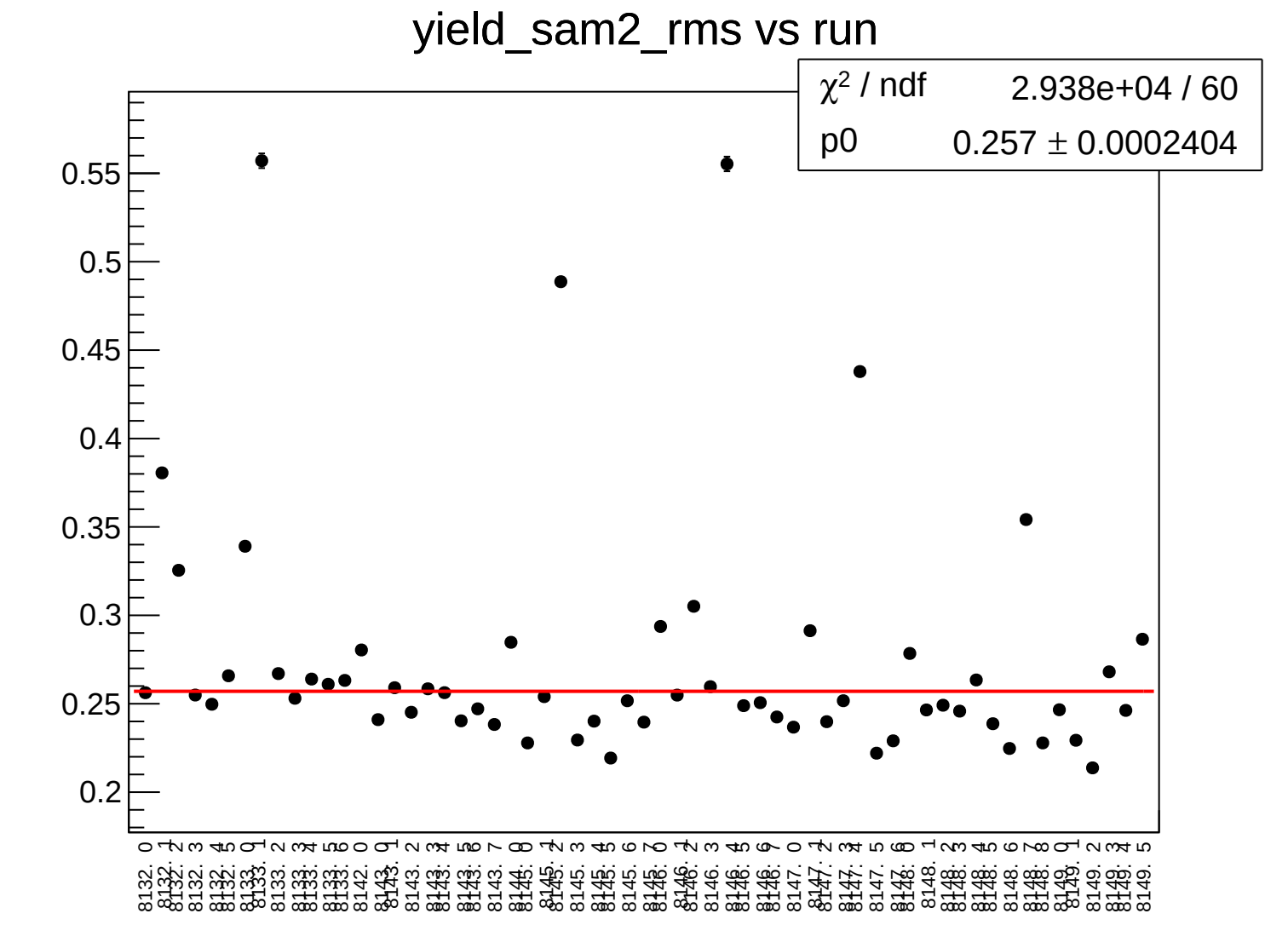

yield_sam1_mean vs run
χ² / ndf 2.646e+06 / 60
p0 14.79 ± 1.493e−05
14.88
14.86
14.84
14.82
14.8
14.78
14.76
14.74
pull
Entries 61
Mean 1.266e+04
Std Dev 1.263e+04
600
400
200
0
−200

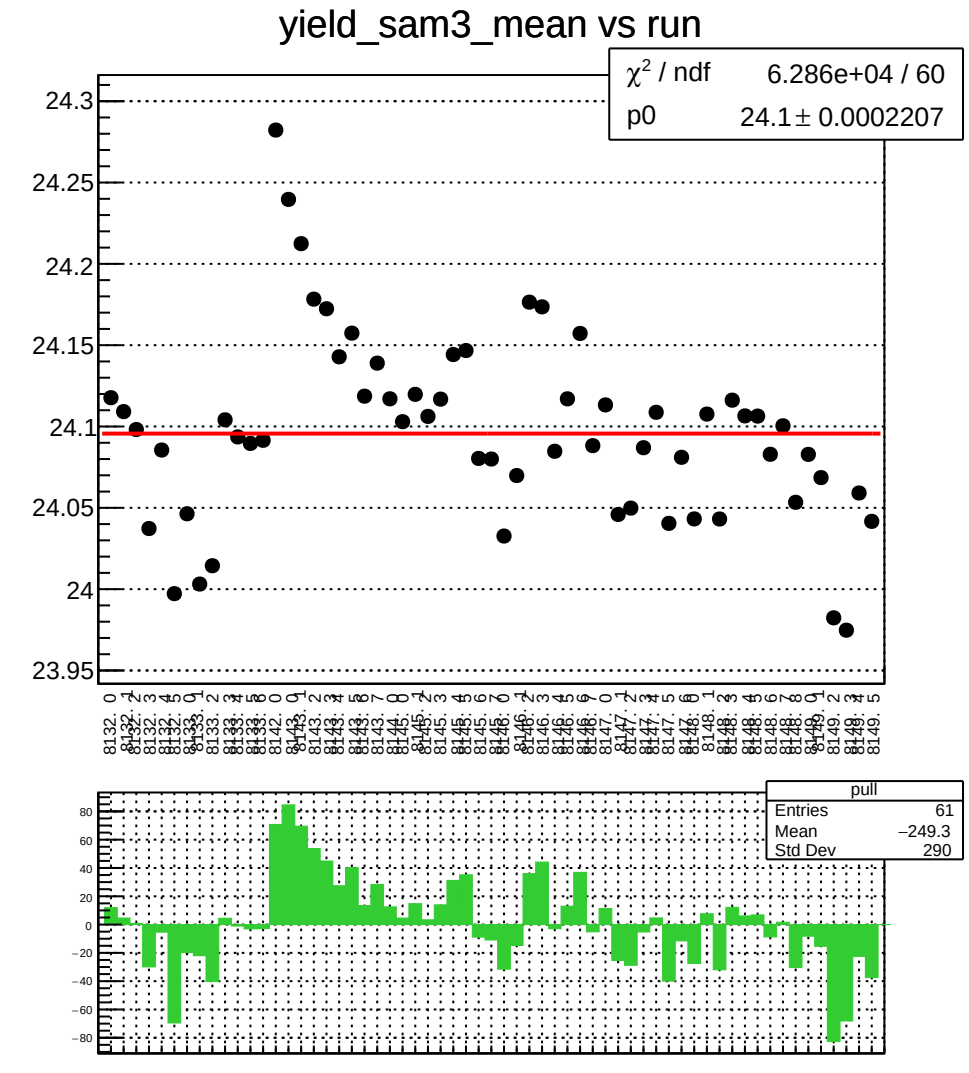

pull1D
Entries 61
Mean −3.698
Std Dev 1.977
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

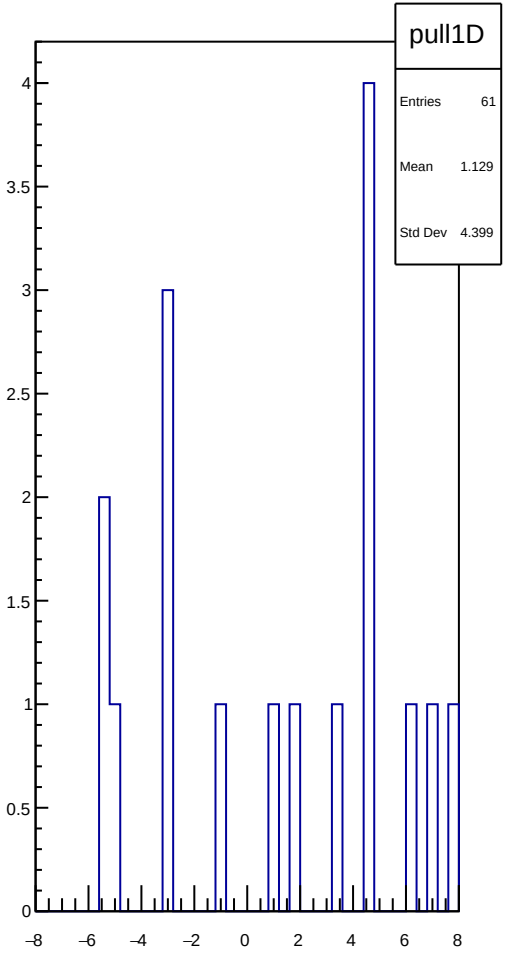

yield_sam1_rms vs run
χ² / ndf 2.821e+04 / 60
p0 0.01129 ± 1.055e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

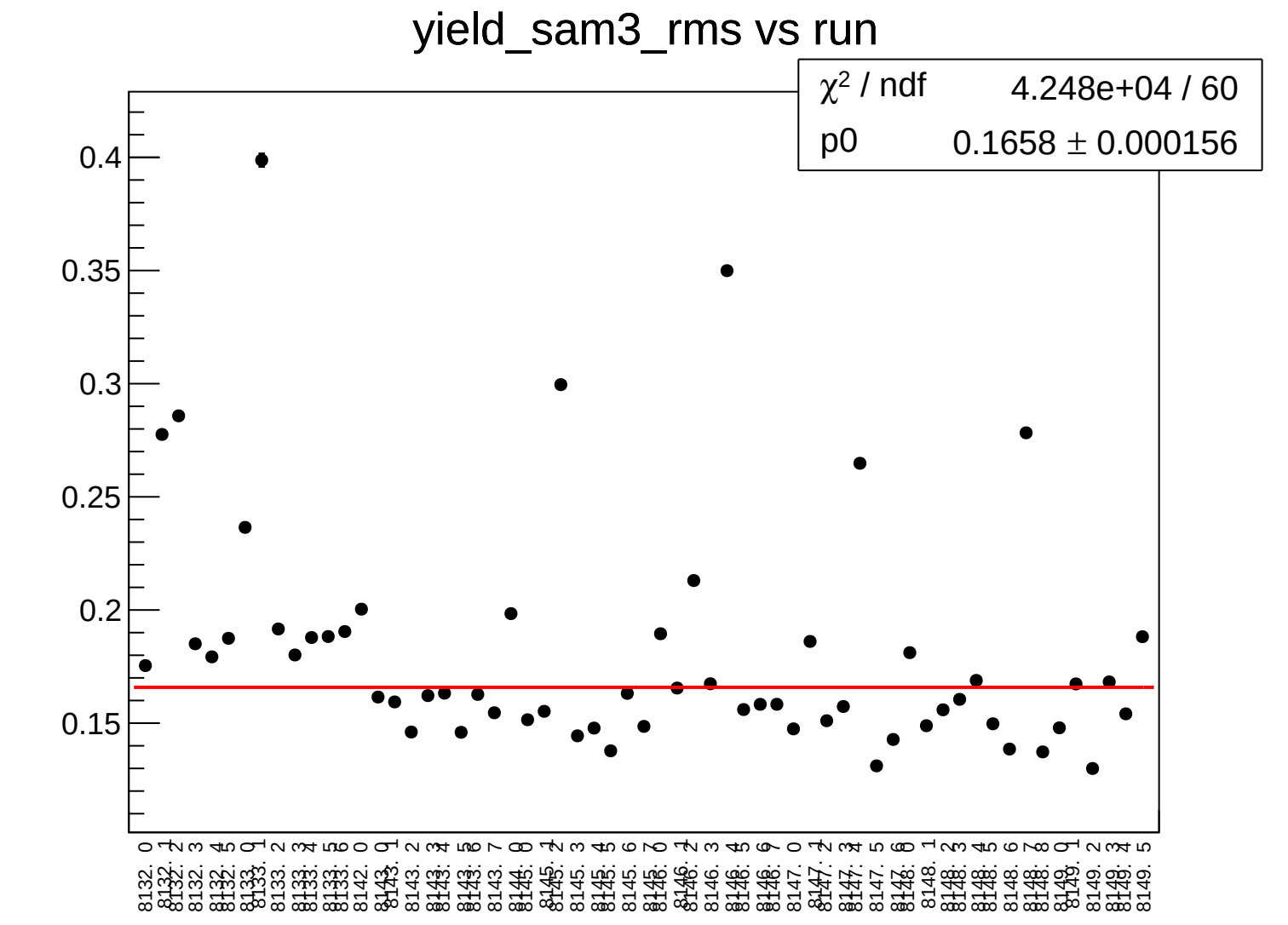

yield_sam2_mean vs run
χ² / ndf 2.288e+05 / 60
p0 24 ± 0.00034
24.4
24.3
24.2
24.1
24
23.9
23.8
23.7
pull
Entries 61
Mean 9299
Std Dev 9282
150
100
50
0
−50
−100

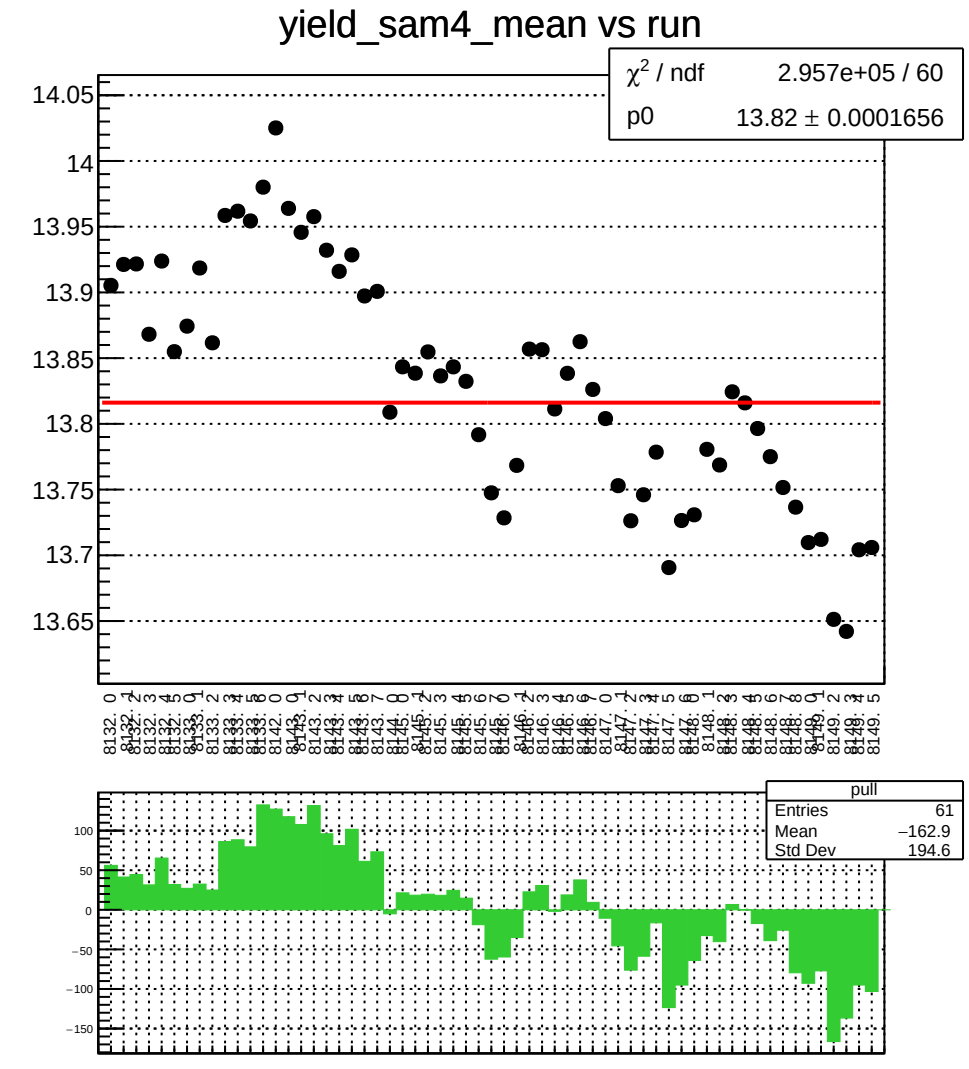

pull1D
Entries 61
Mean 1.091
Std Dev 5.607
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

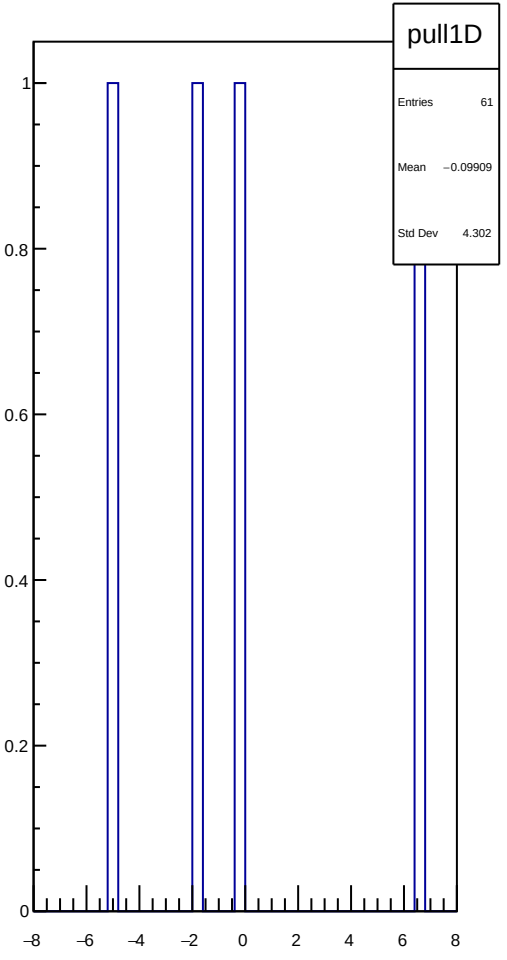

yield_sam2_rms vs run
χ² / ndf 2.938e+04 / 60
p0 0.257 ± 0.0002404
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

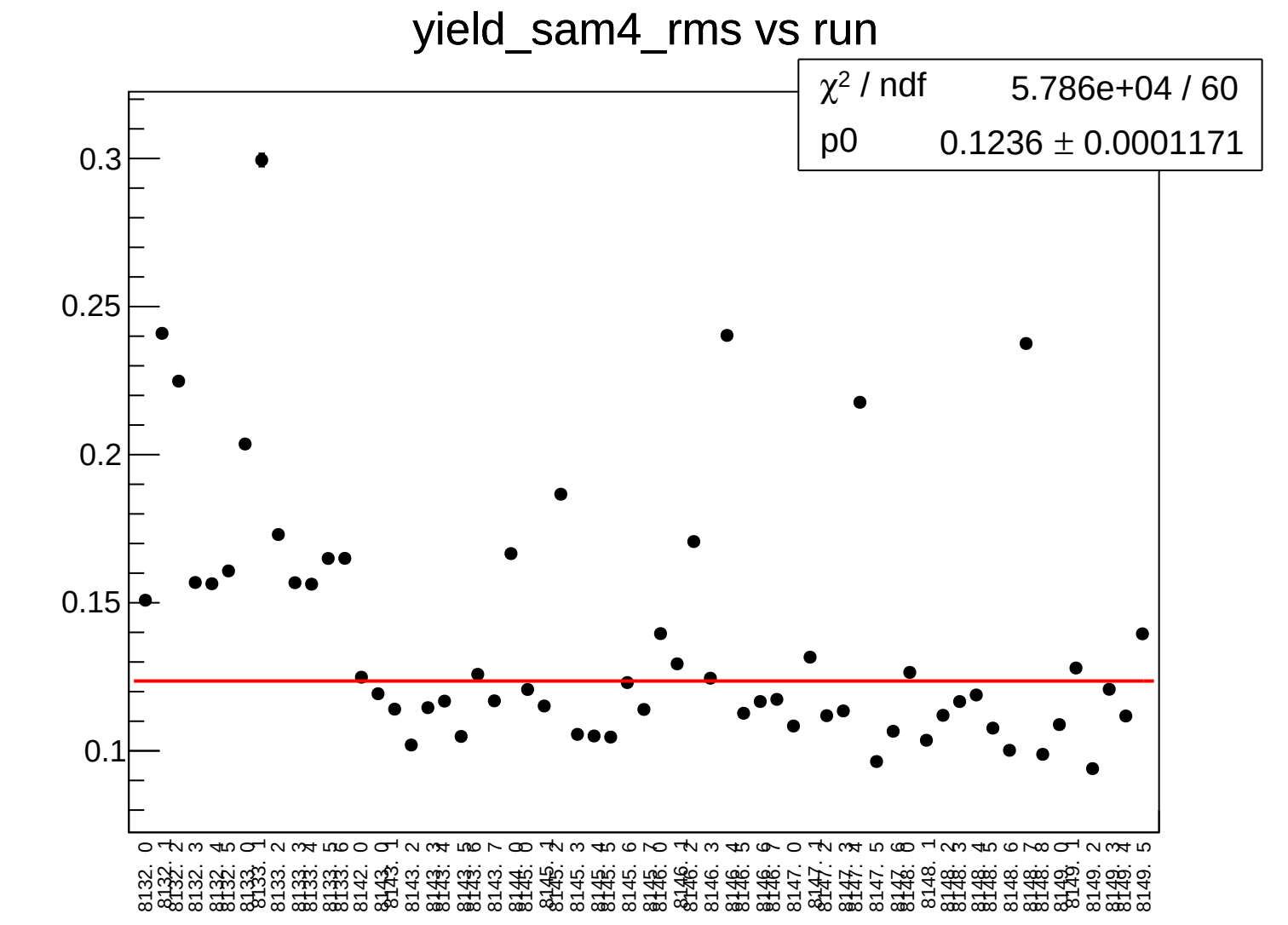

yield_sam3_mean vs run
χ² / ndf 6.286e+04 / 60
p0 24.1 ± 0.0002207
24.3
24.25
24.2
24.15
24.1
24.05
24
23.95
pull
Entries 61
Mean −249.3
Std Dev 290
80
60
40
20
0
−20
−40
−60
−80

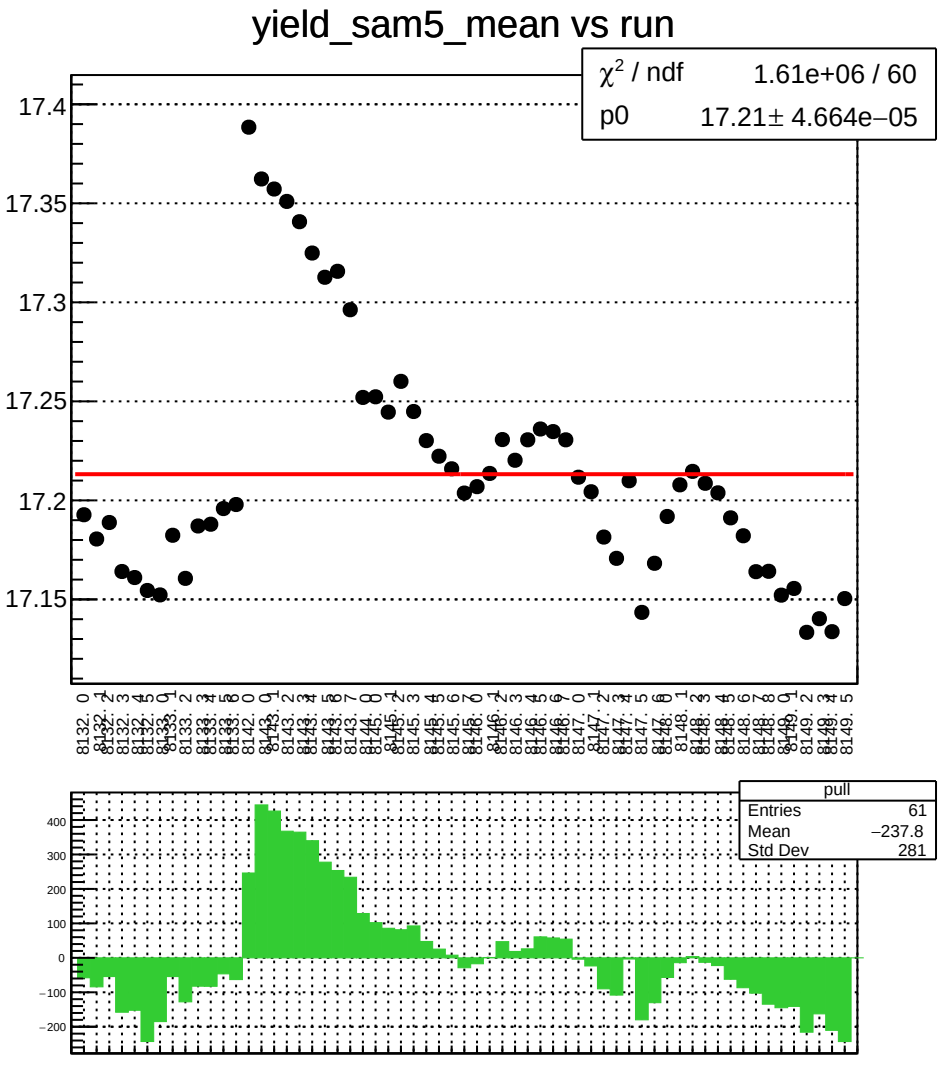

pull1D
Entries 61
Mean 1.129
Std Dev 4.399
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

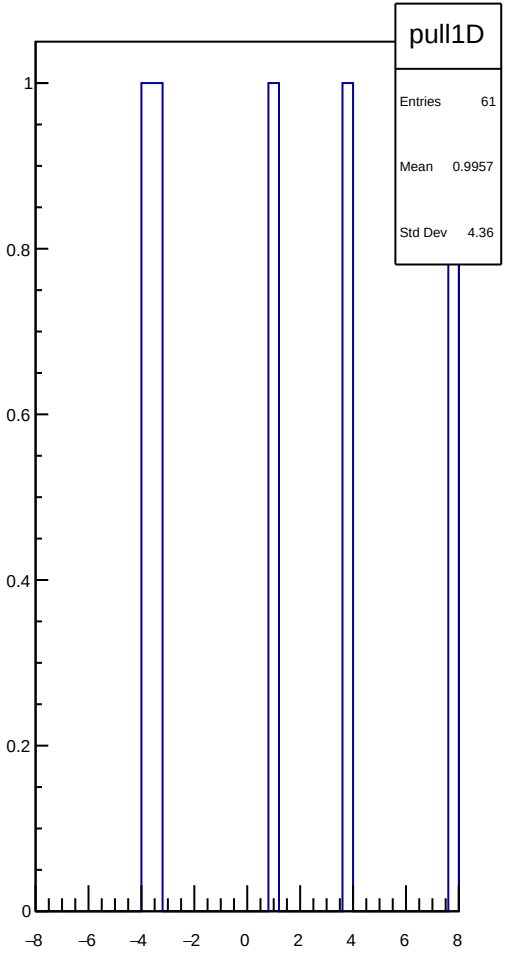

yield_sam3_rms vs run
χ² / ndf 4.248e+04 / 60
p0 0.1658 ± 0.000156
0.4
0.35
0.3
0.25
0.2
0.15

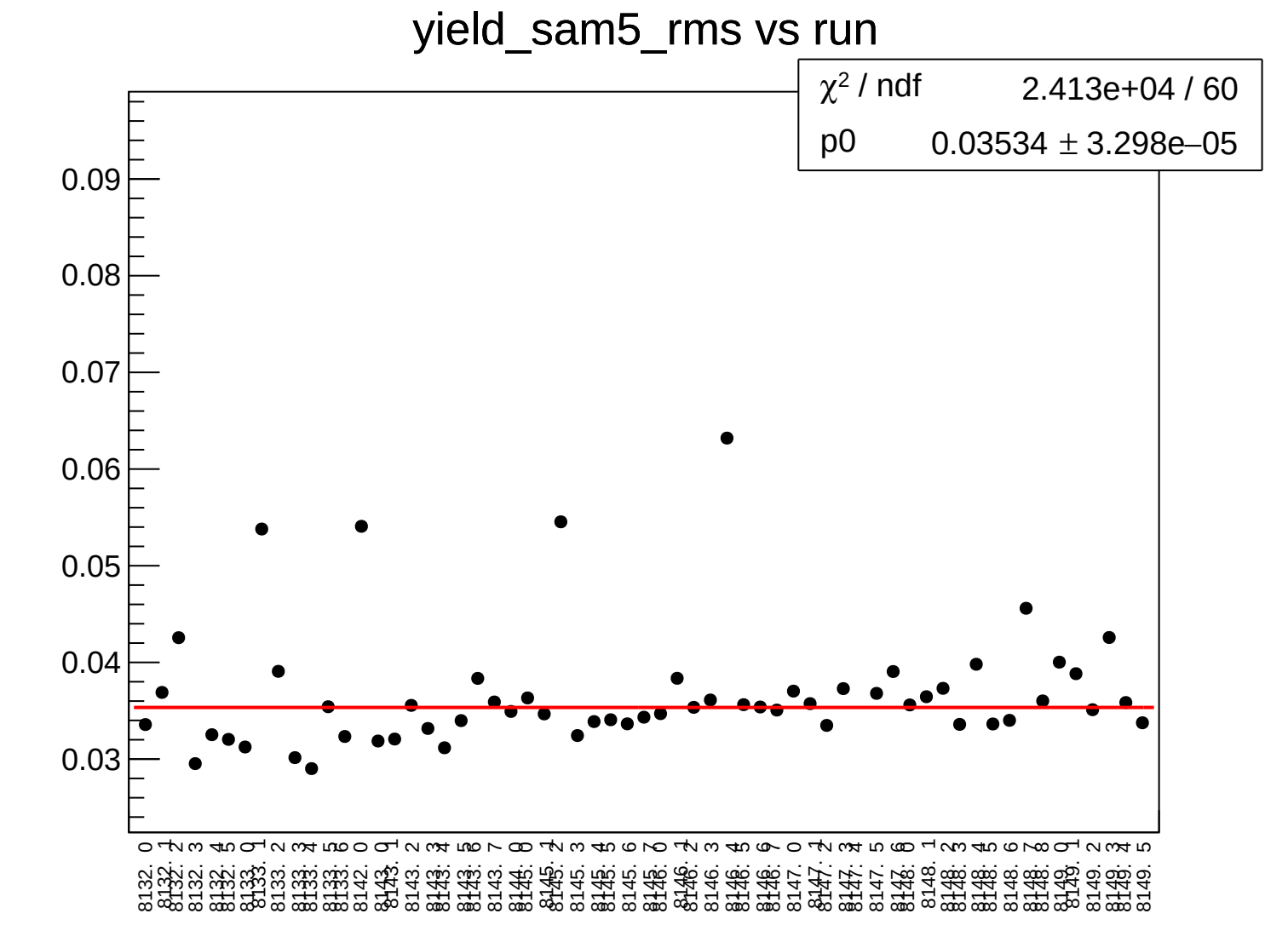

yield_sam4_mean vs run
χ² / ndf 2.957e+05 / 60
p0 13.82 ± 0.0001656
14.05
14
13.95
13.9
13.85
13.8
13.75
13.7
13.65
pull
Entries 61
Mean −162.9
Std Dev 194.6
100
50
0
−50
−100
−150

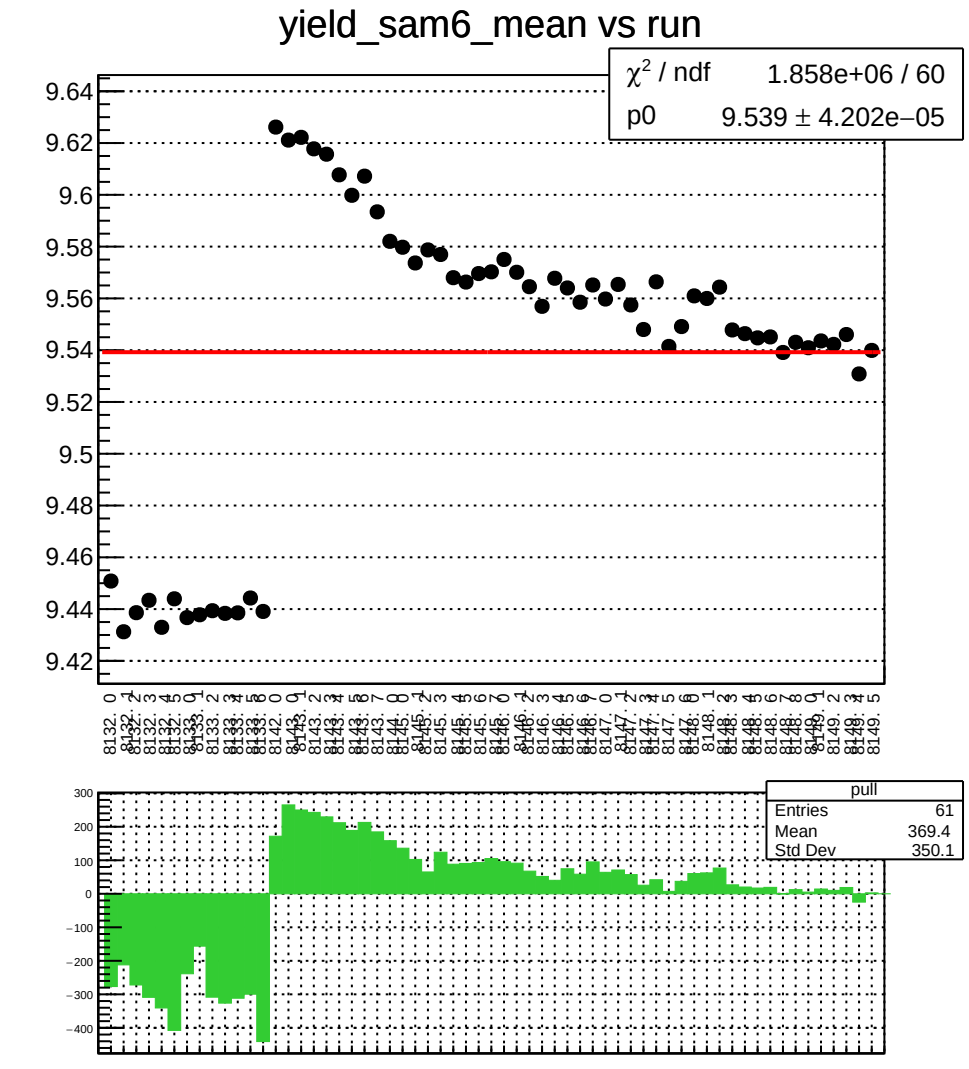

pull1D
Entries 61
Mean −0.09909
Std Dev 4.302
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

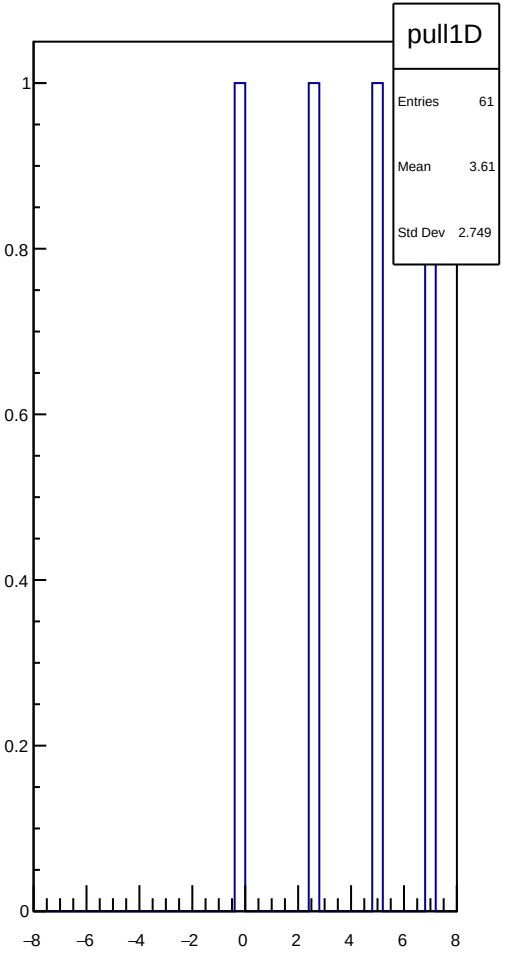

yield_sam4_rms vs run
χ² / ndf 5.786e+04 / 60
p0 0.1236 ± 0.0001171
0.3
0.25
0.2
0.15
0.1

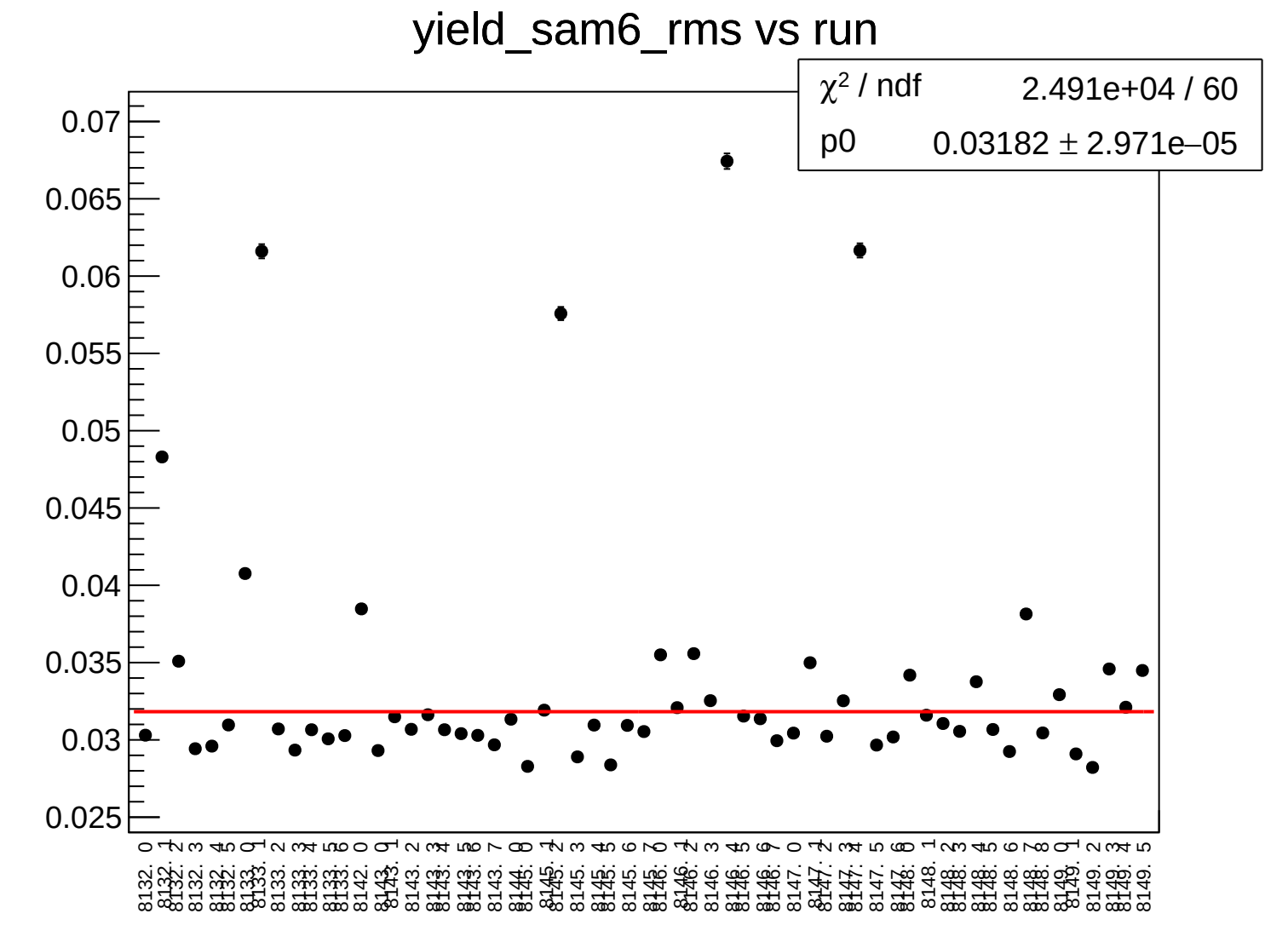

yield_sam5_mean vs run
χ² / ndf 1.61e+06 / 60
p0 17.21± 4.664e−05
17.4
17.35
17.3
17.25
17.2
17.15
pull
Entries 61
Mean −237.8
Std Dev 281
400
300
200
100
0
−100
−200

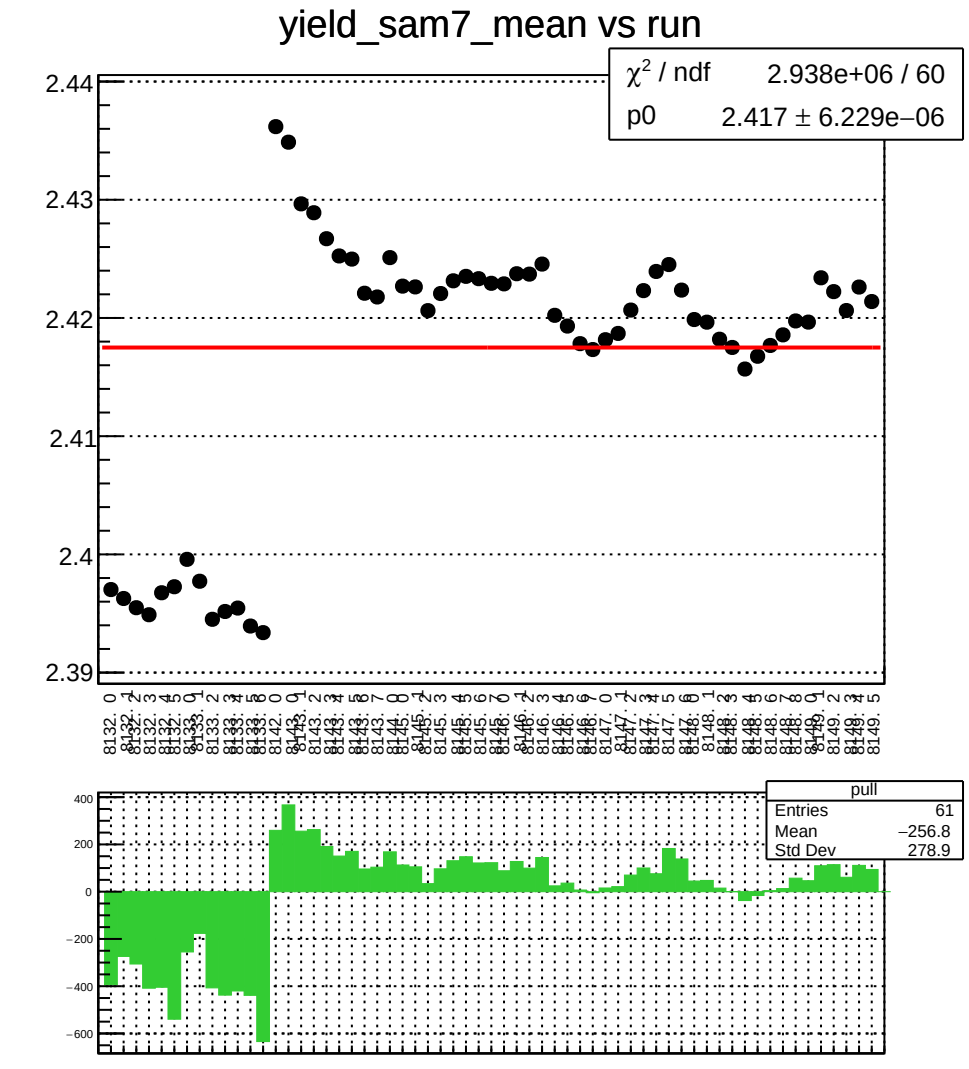

pull1D
Entries 61
Mean 0.9957
Std Dev 4.36
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

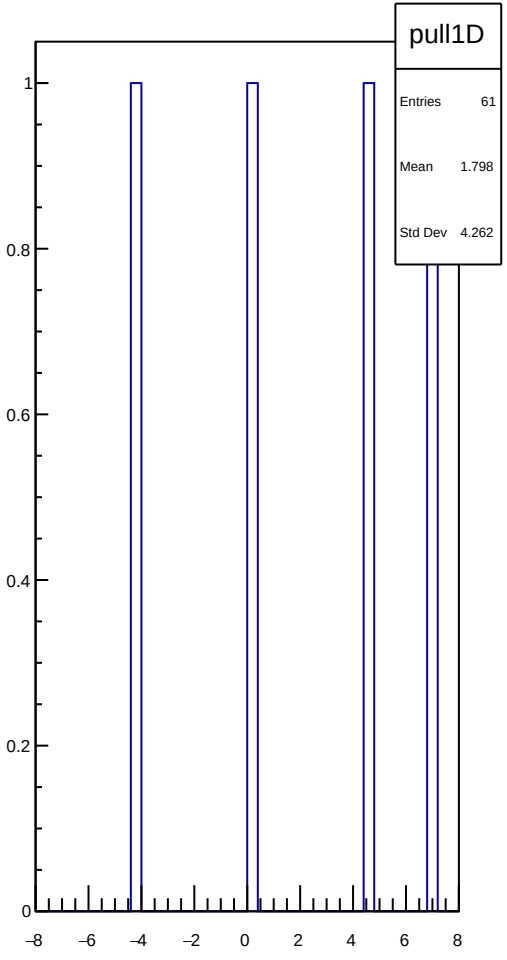

yield_sam5_rms vs run
χ² / ndf 2.413e+04 / 60
p0 0.03534 ± 3.298e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03

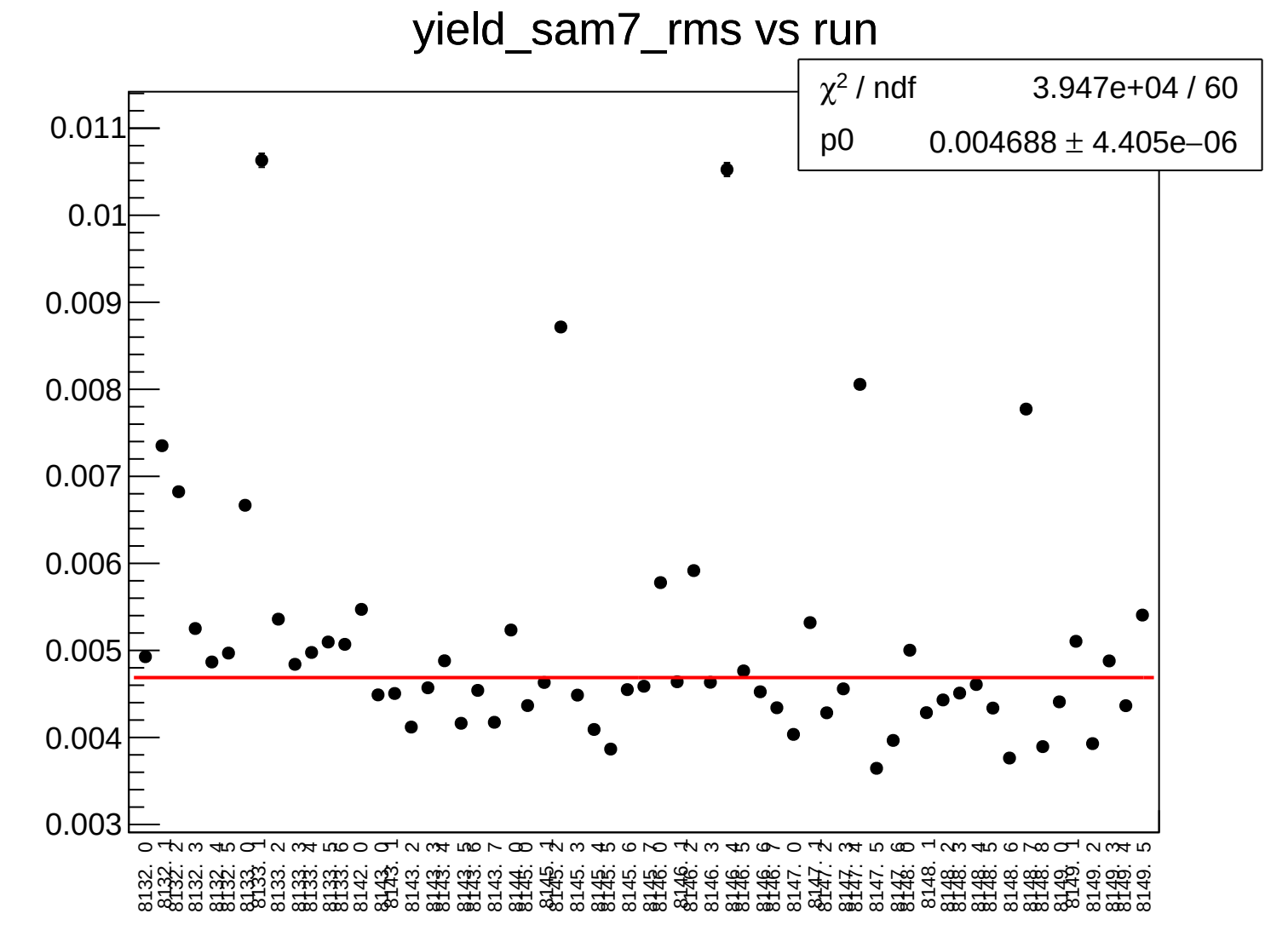

yield_sam6_mean vs run
χ^2 / ndf 1.858e+06 / 60
p0 9.539 ± 4.202e−05
9.64
9.62
9.6
9.58
9.56
9.54
9.52
9.5
9.48
9.46
9.44
9.42
pull
Entries 61
Mean 369.4
Std Dev 350.1
300
200
100
0
−100
−200
−300
−400

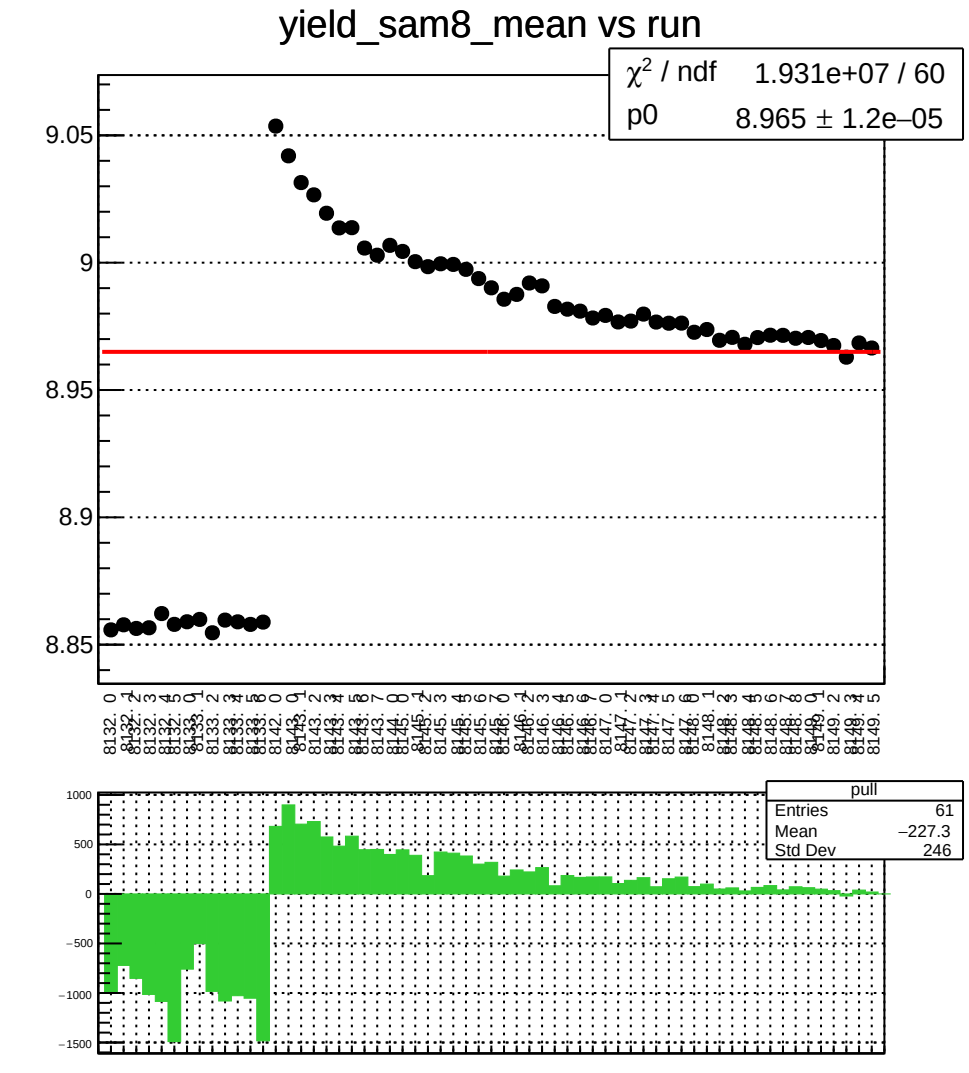

pull1D
Entries 61
Mean 3.61
Std Dev 2.749
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

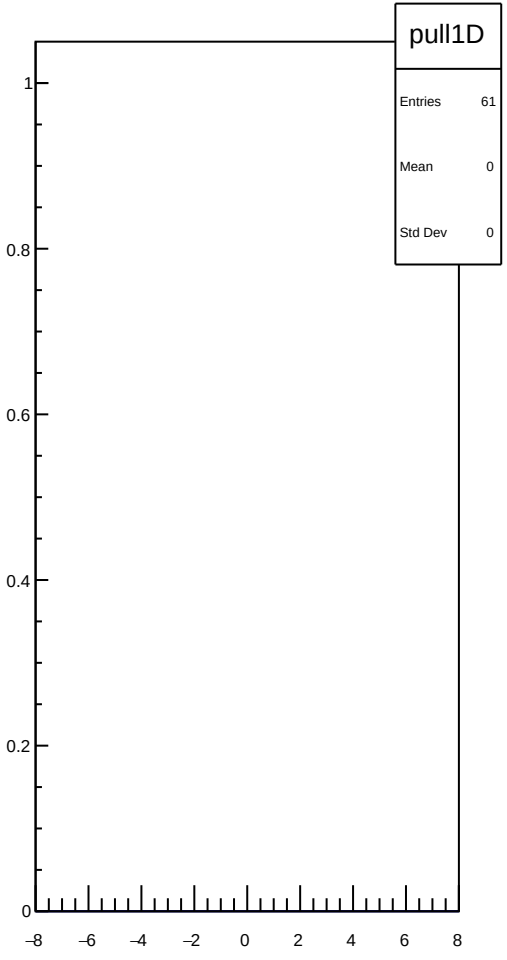

yield_sam6_rms vs run
χ² / ndf 2.491e+04 / 60
p0 0.03182 ± 2.971e−05
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025

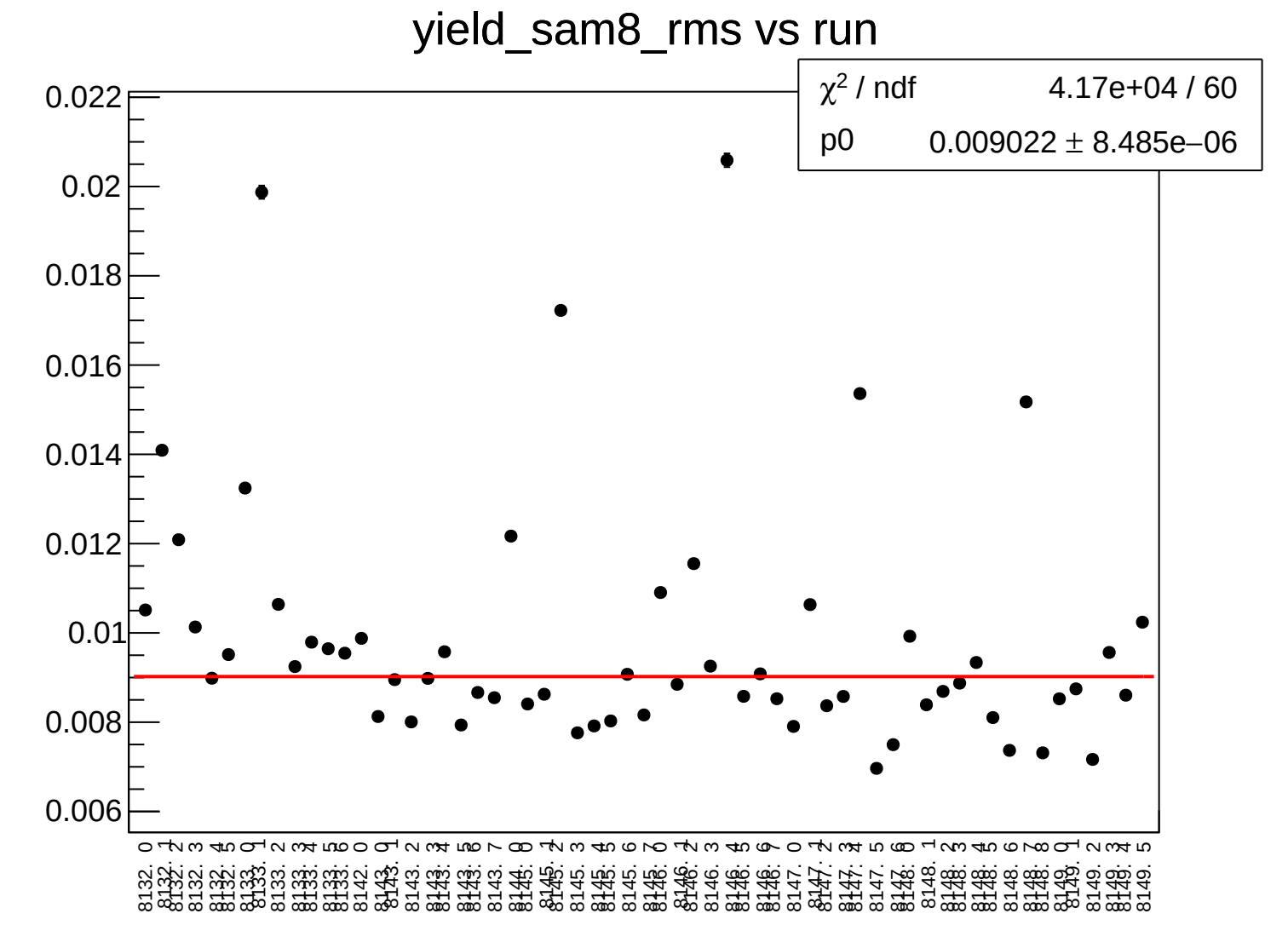

yield_sam7_mean vs run
χ² / ndf 2.938e+06 / 60
p0 2.417 ± 6.229e−06
2.44
2.43
2.42
2.41
2.4
2.39
pull
Entries 61
Mean −256.8
Std Dev 278.9
400
200
0
−200
−400
−600

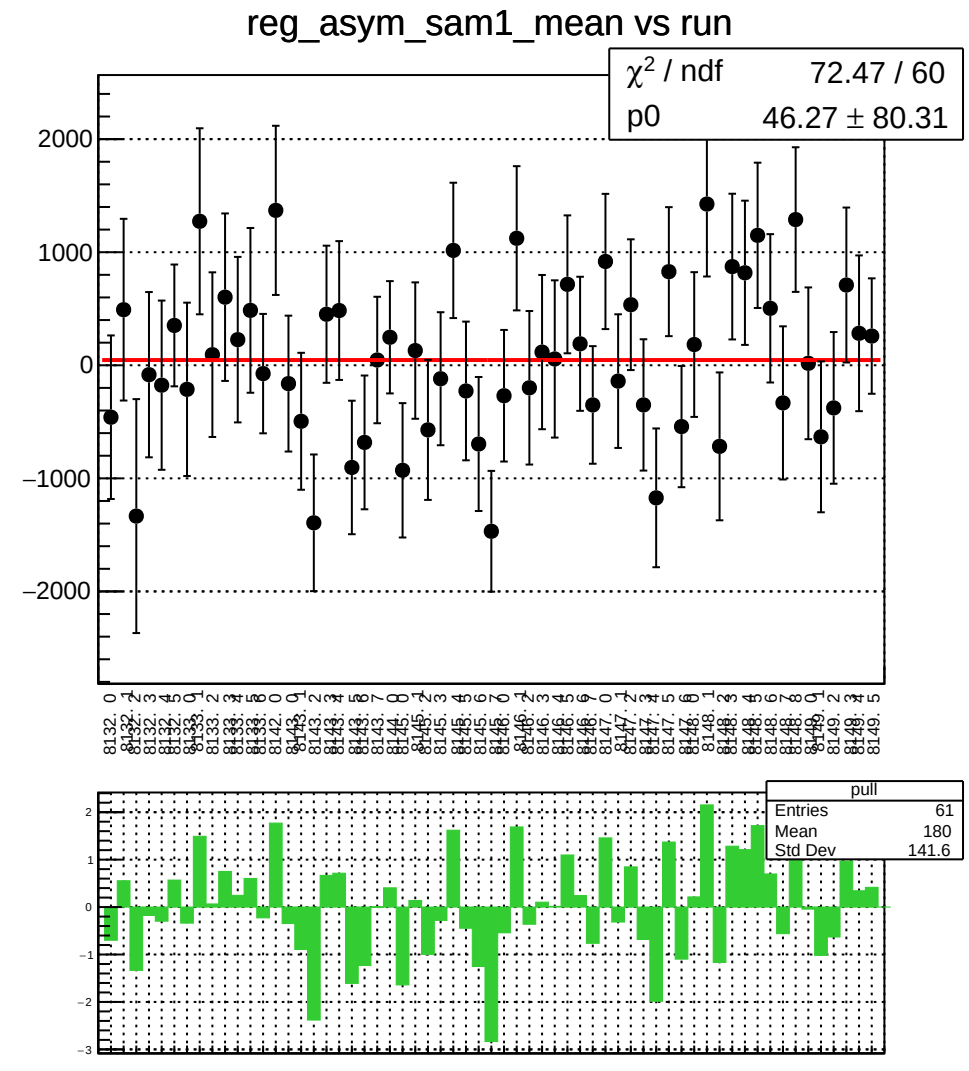

pull1D
Entries 61
Mean 1.798
Std Dev 4.262
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

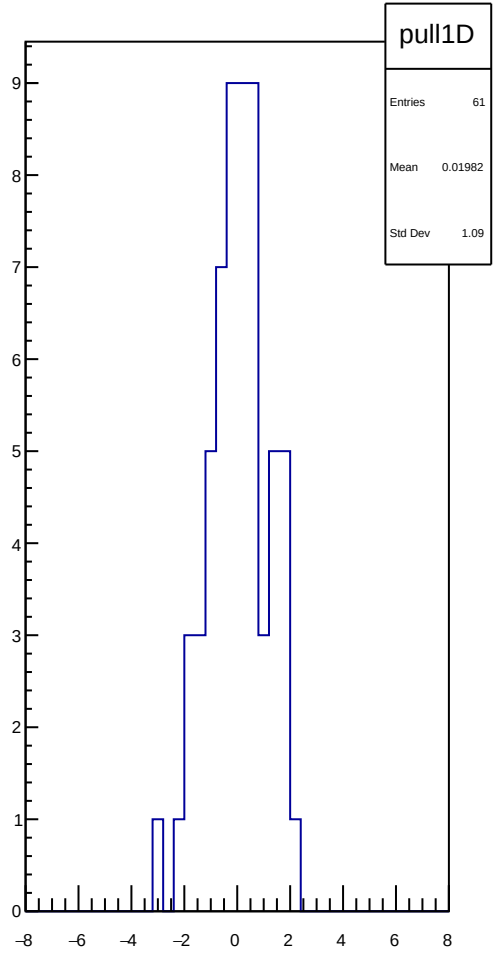

yield_sam7_rms vs run
χ² / ndf 3.947e+04 / 60
p0 0.004688 ± 4.405e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

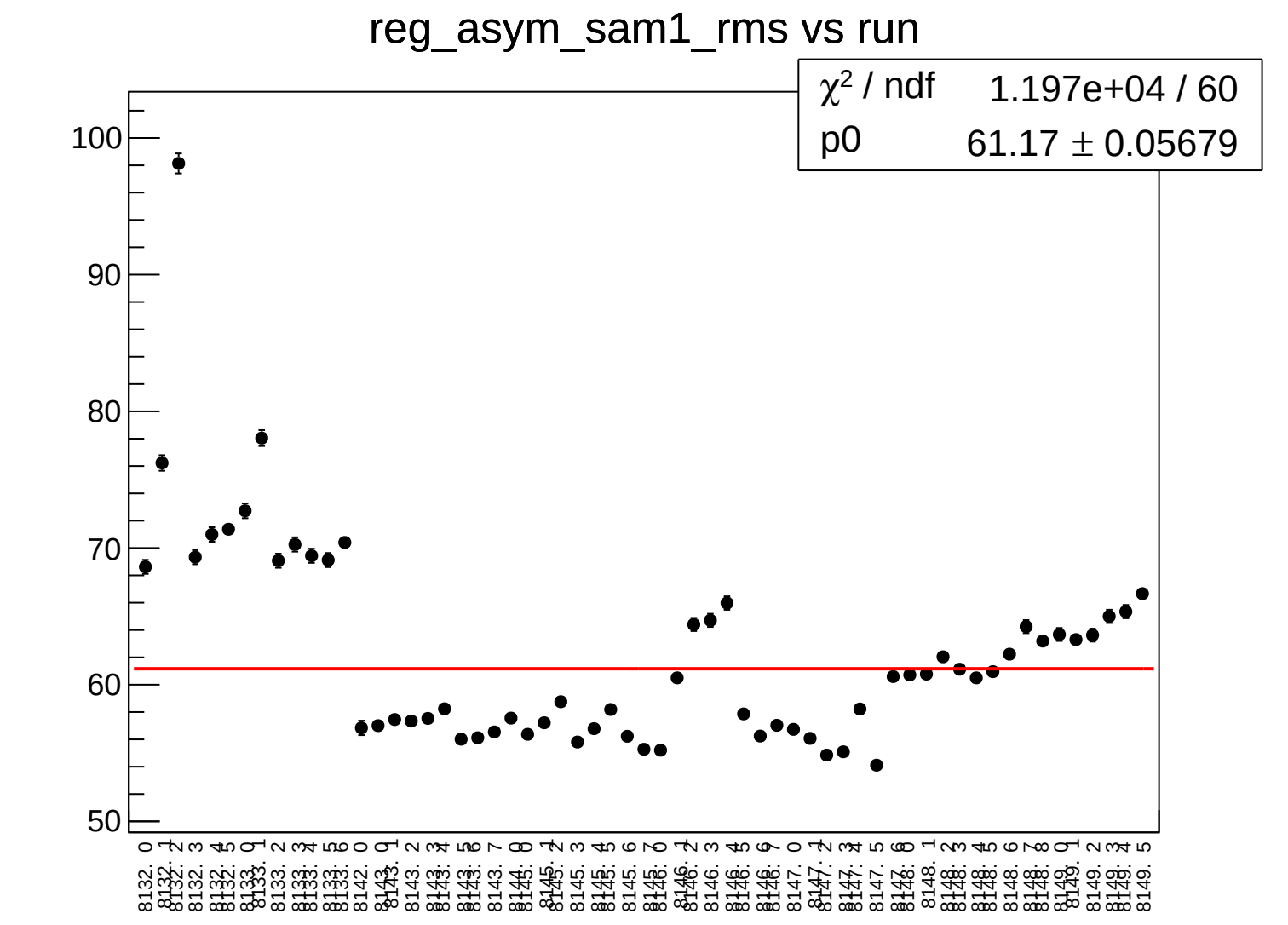

yield_sam8_mean vs run
χ² / ndf 1.931e+07 / 60
p0 8.965 ± 1.2e−05
9.05
9
8.95
8.9
8.85
pull
Entries 61
Mean −227.3
Std Dev 246
1000
500
0
−500
−1000
−1500

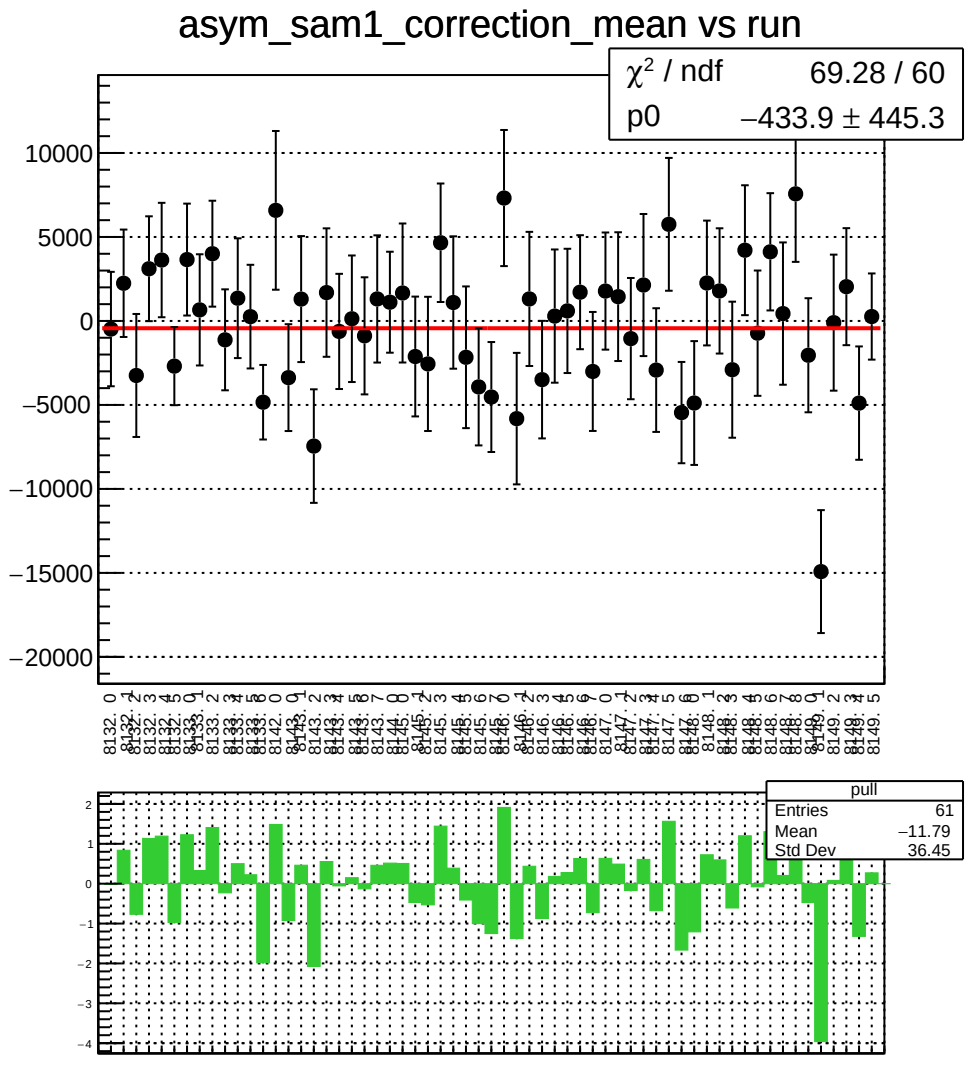

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

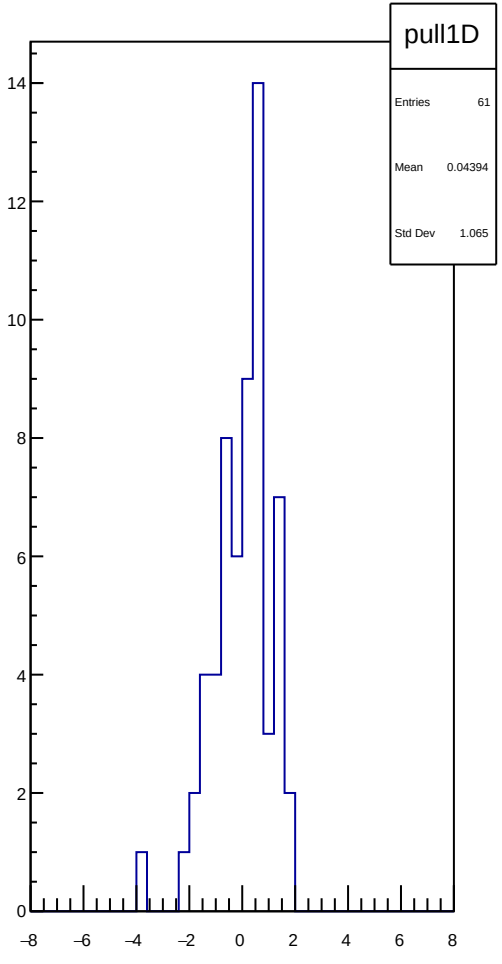

yield_sam8_rms vs run
χ² / ndf 4.17e+04 / 60
p0 0.009022 ± 8.485e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

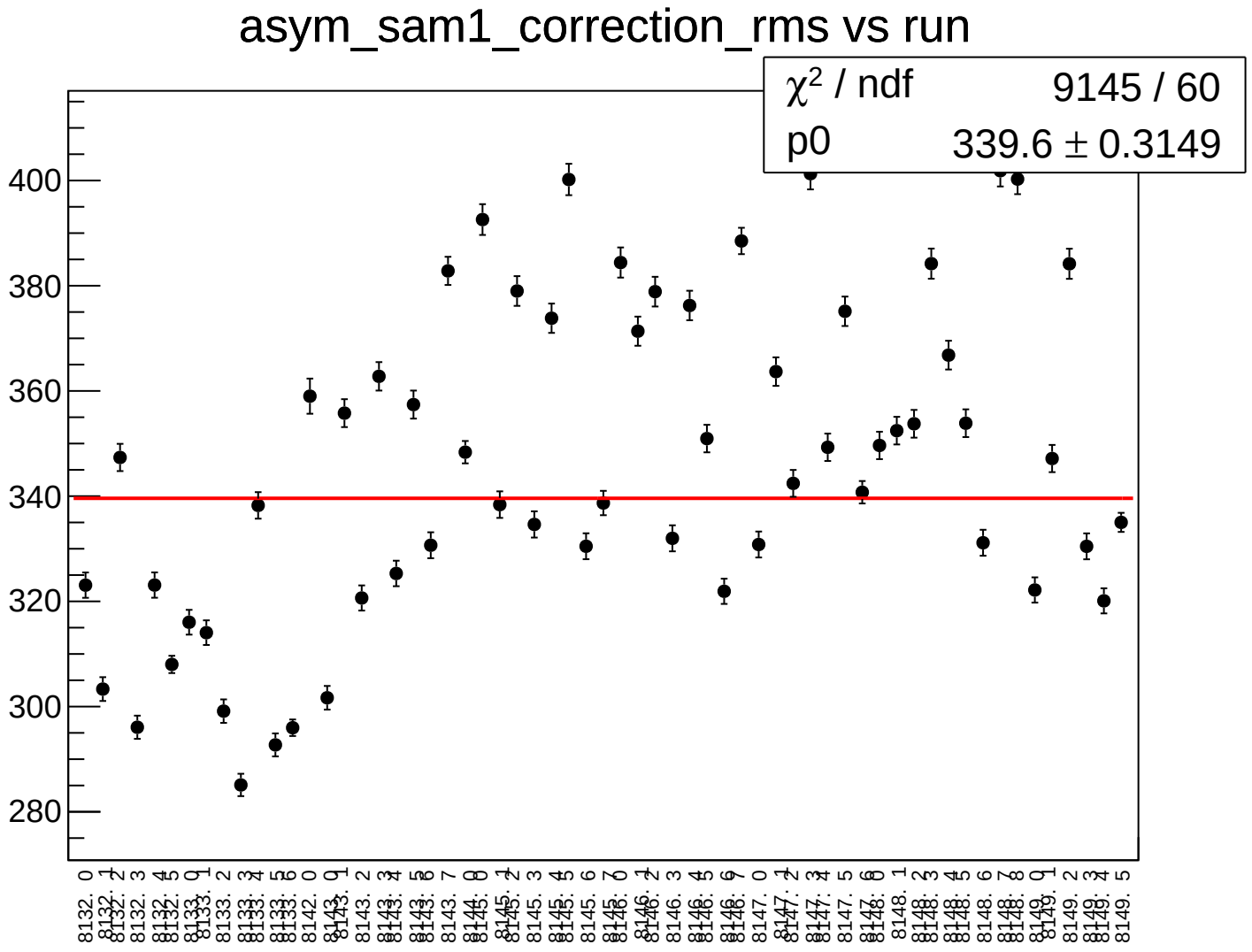

reg_asym_sam1_mean vs run
χ² / ndf 72.47 / 60
p0 46.27 ± 80.31
2000
1000
0
−1000
−2000
pull
Entries 61
Mean 180
Std Dev 141.6
2
1
0
−1
−2
−3

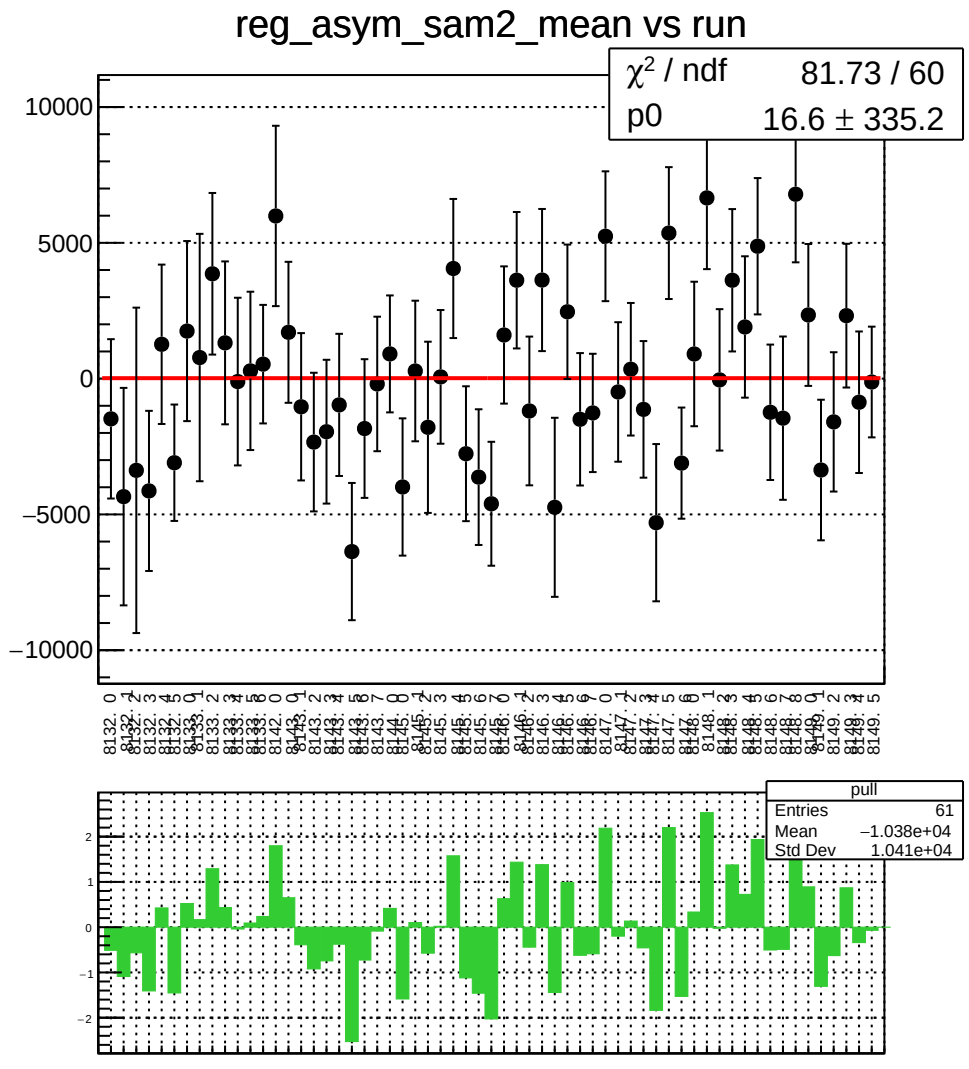

pull1D
Entries 61
Mean 0.01982
Std Dev 1.09
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

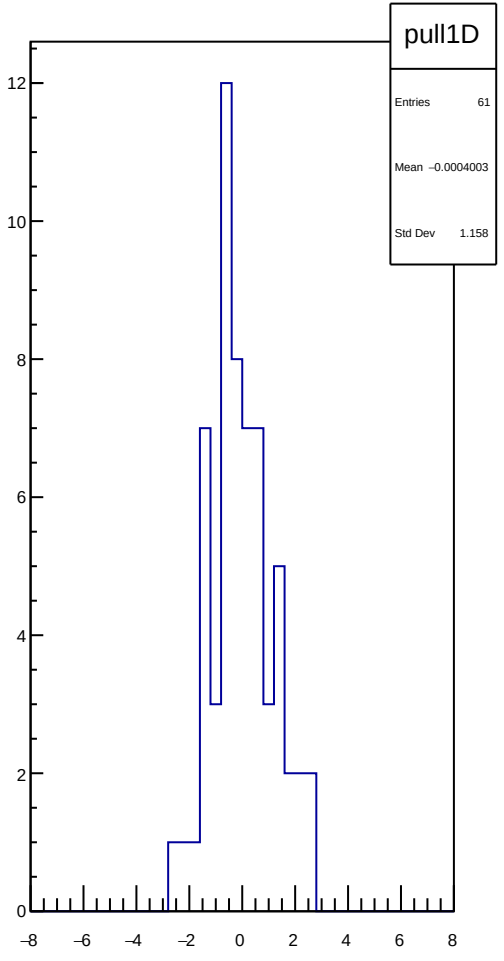

reg_asym_sam1_rms vs run
χ² / ndf 1.197e+04 / 60
p0 61.17 ± 0.05679
100
90
80
70
60
50

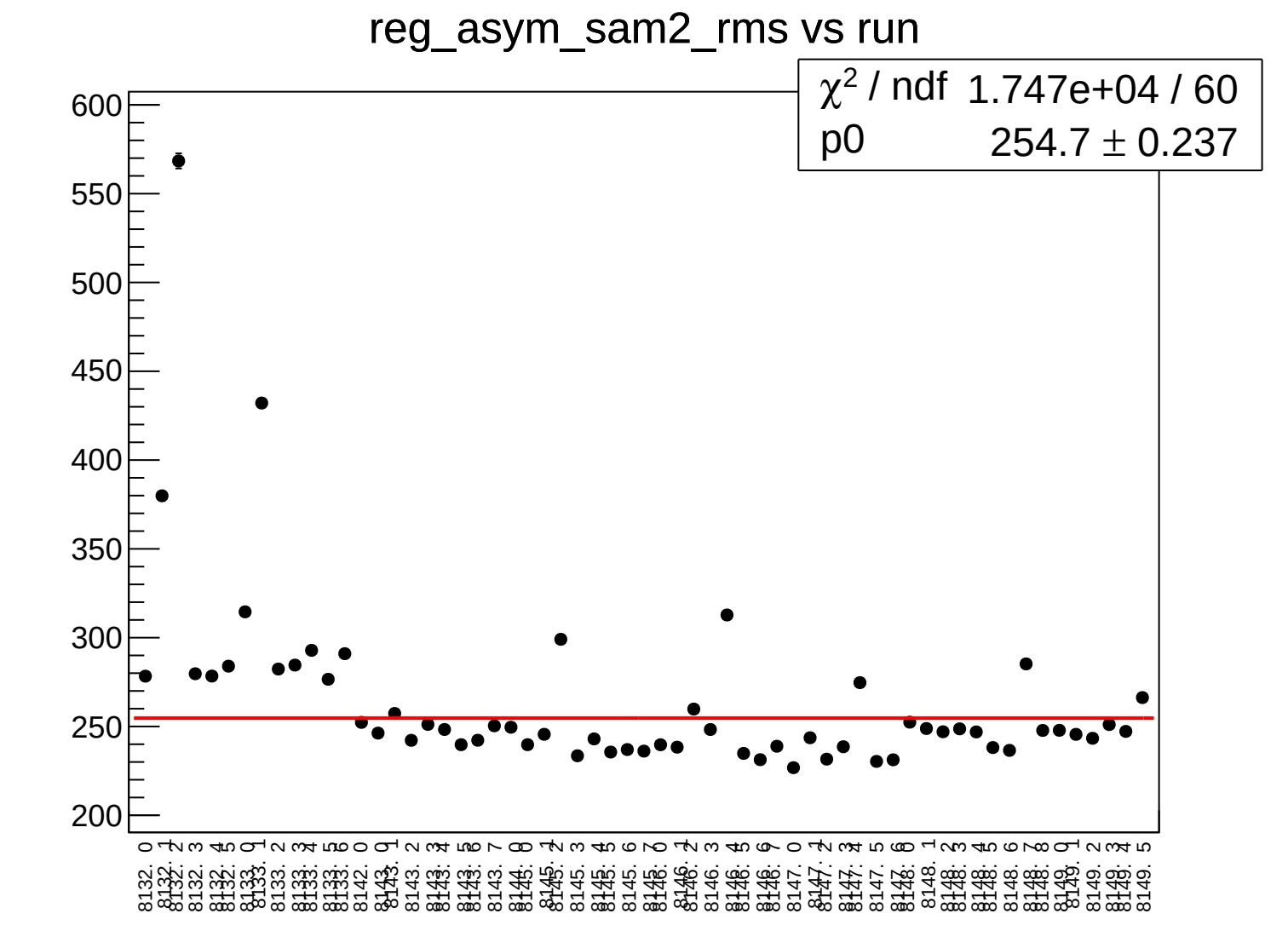

asym_sam1_correction_mean vs run
χ² / ndf 69.28 / 60
p0 −433.9 ± 445.3
pull
Entries 61
Mean −11.79
Std Dev 36.45

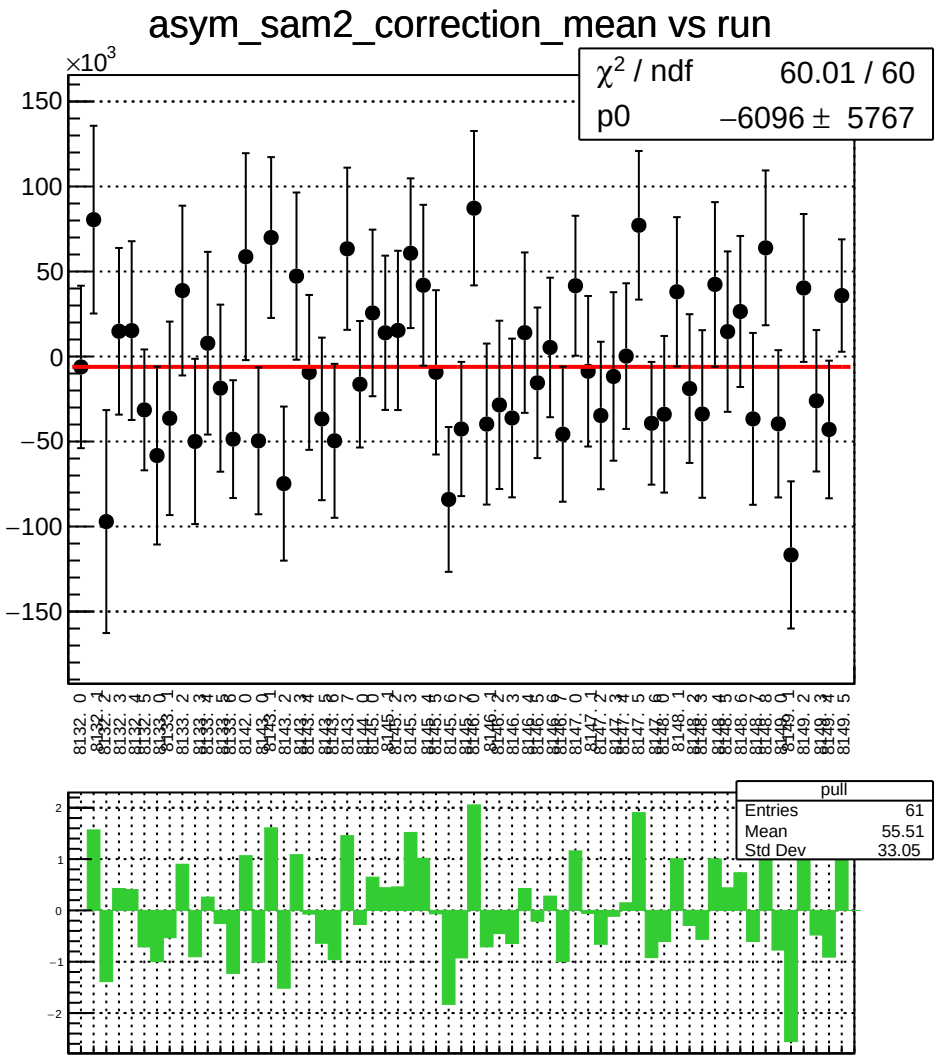

pull1D
Entries 61
Mean 0.04394
Std Dev 1.065

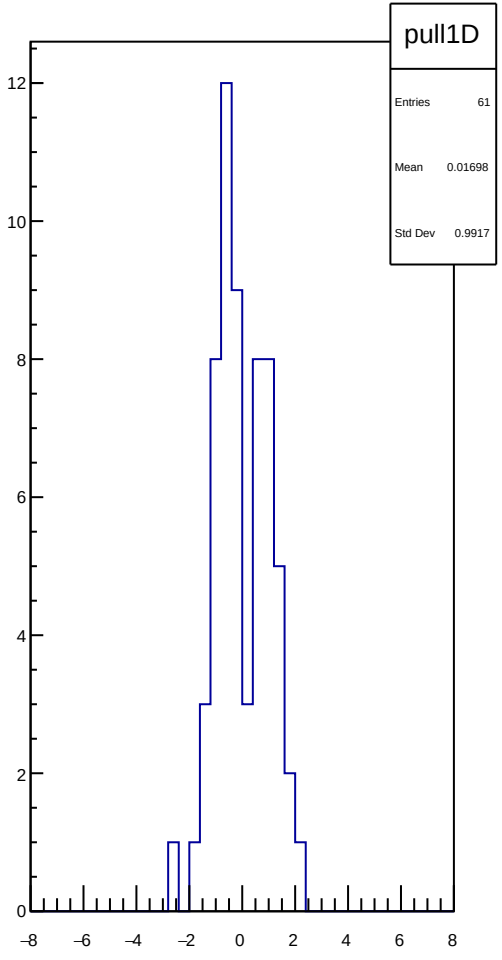

asym_sam1_correction_rms vs run
χ² / ndf 9145 / 60
p0 339.6 ± 0.3149
400
380
360
340
320
300
280

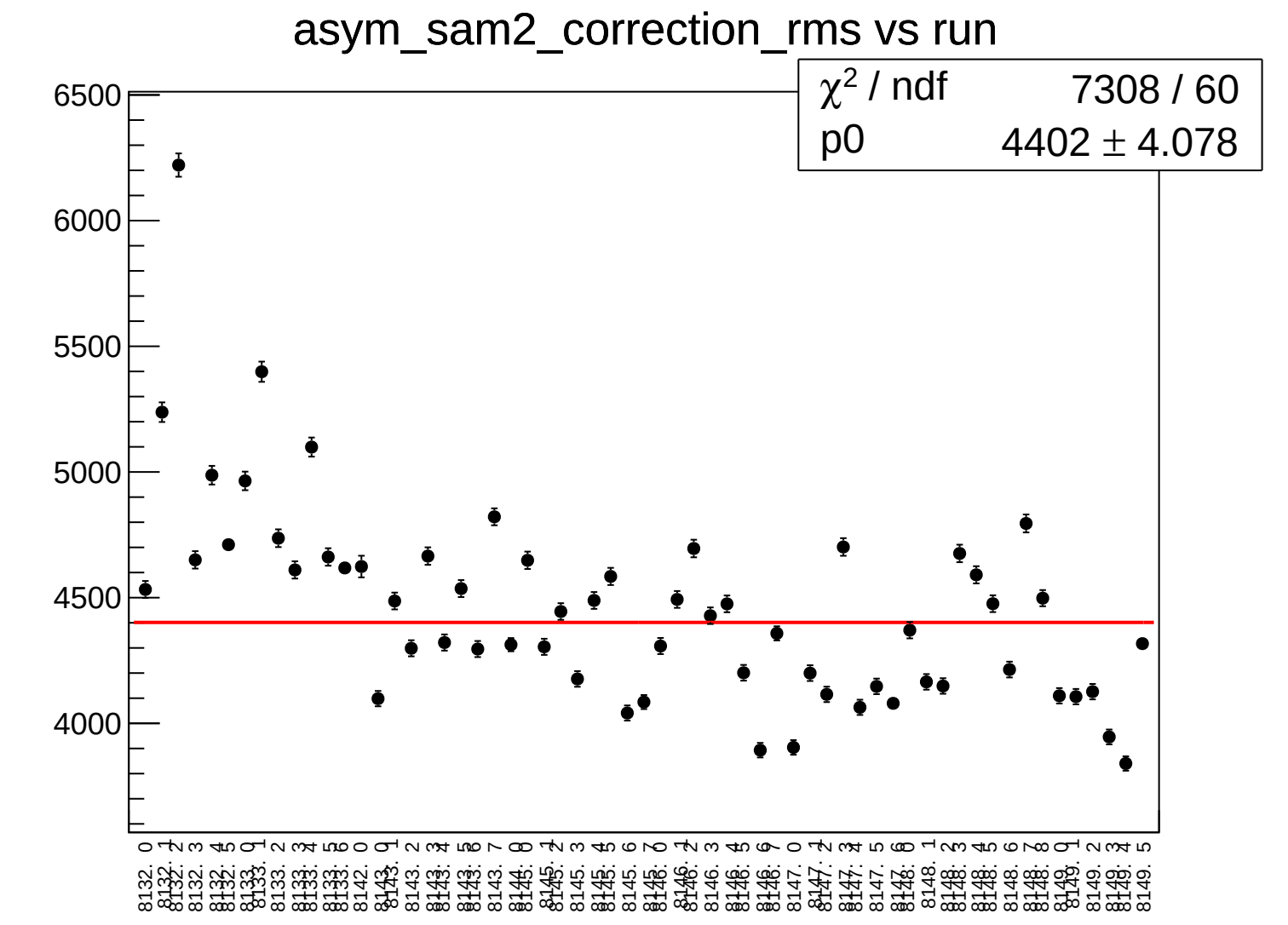

reg_asym_sam2_mean vs run
χ² / ndf 81.73 / 60
p0 16.6 ± 335.2
10000
5000
0
−5000
−10000
pull
Entries 61
Mean −1.038e+04
Std Dev 1.041e+04
2
1
0
−1
−2

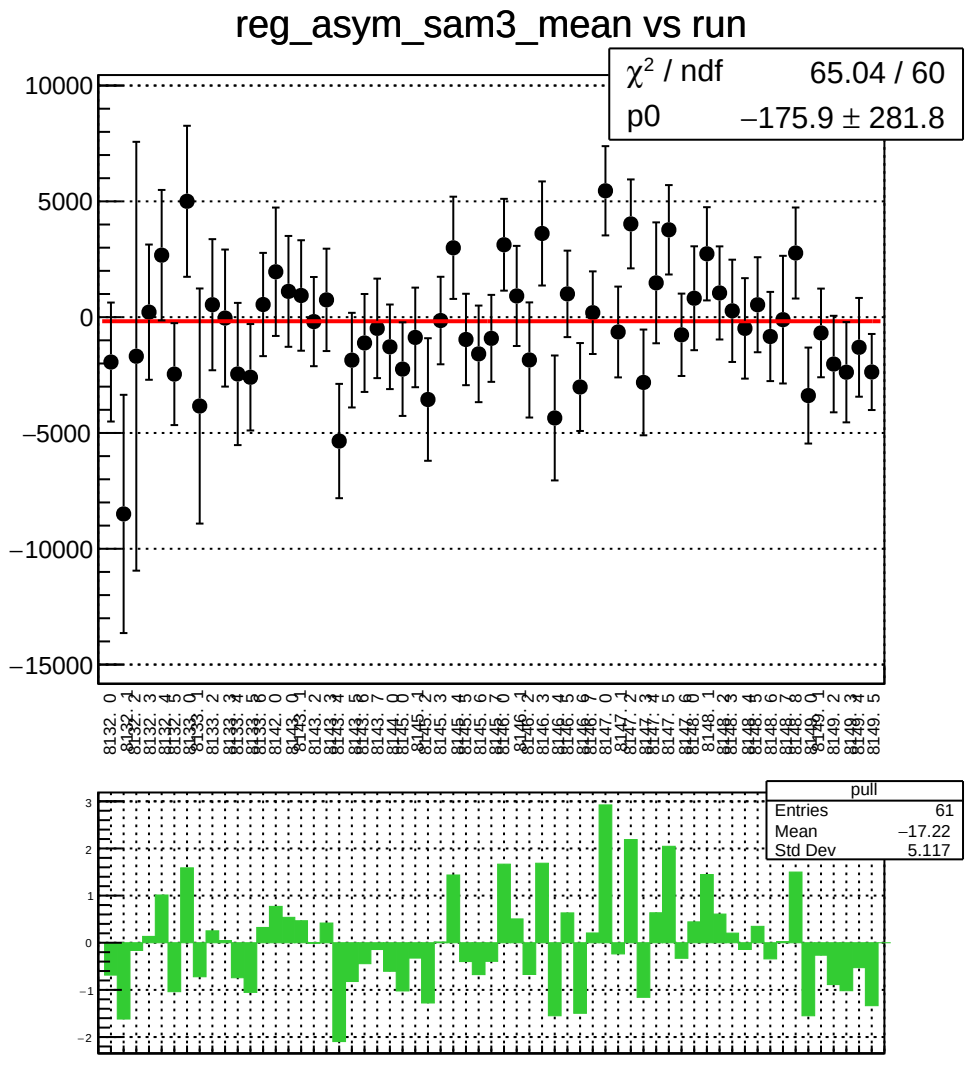

pull1D
Entries 61
Mean −0.0004003
Std Dev 1.158
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

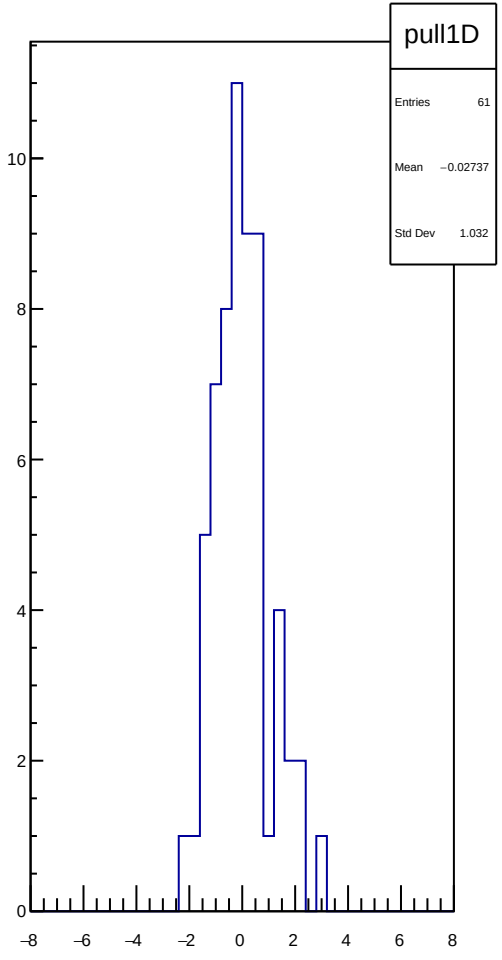

reg_asym_sam2_rms vs run
χ² / ndf 1.747e+04 / 60
p0 254.7 ± 0.237
600
550
500
450
400
350
300
250
200

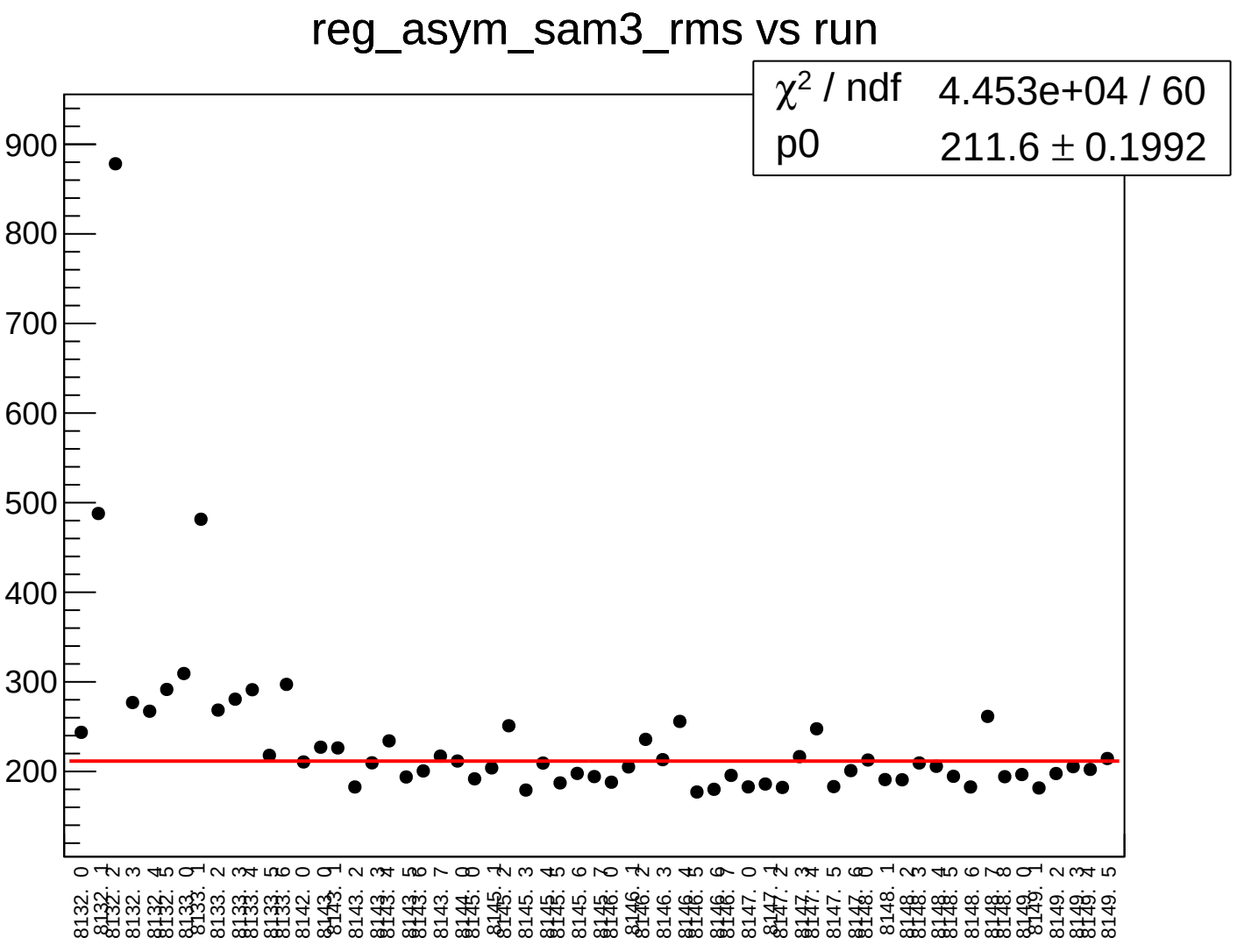

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 60.01 / 60
p0 −6096 ± 5767
150
100
50
0
−50
−100
−150
pull
Entries 61
Mean 55.51
Std Dev 33.05
2
1
0
−1
−2

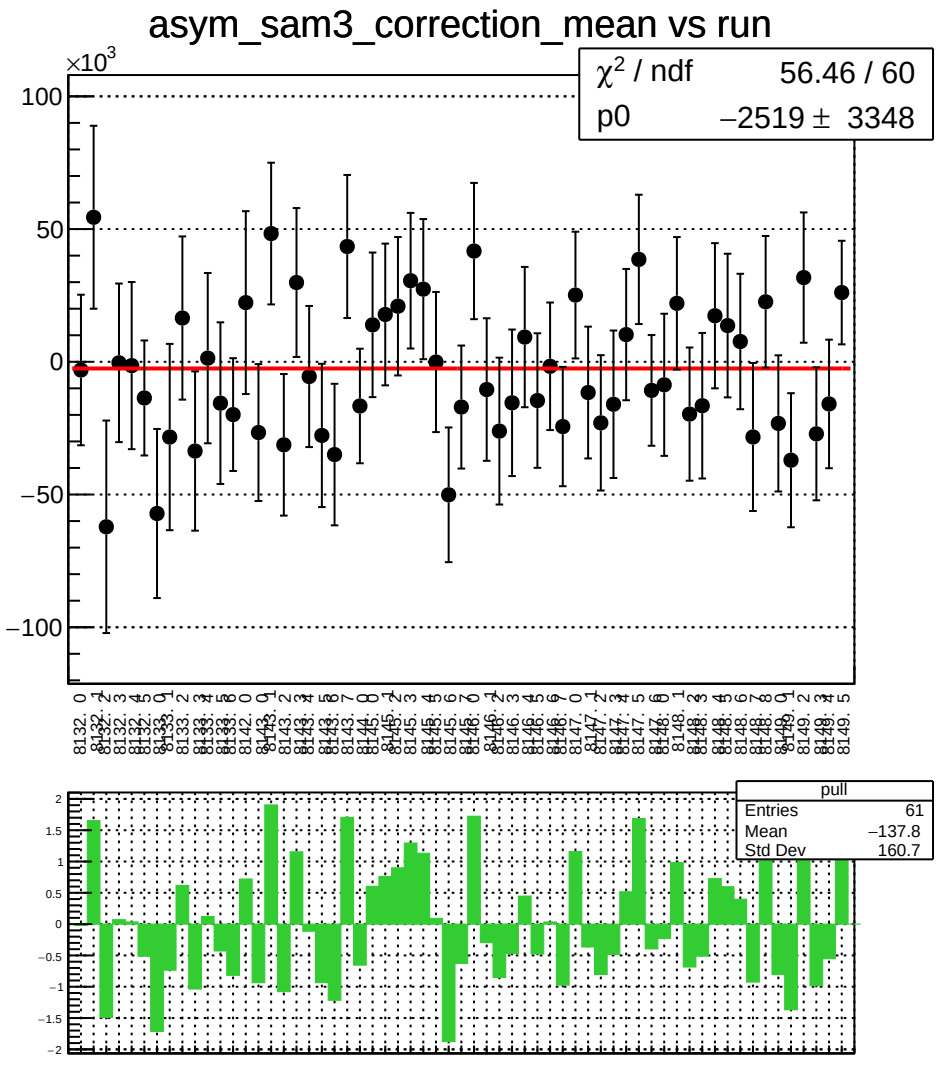

pull1D
Entries 61
Mean 0.01698
Std Dev 0.9917
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

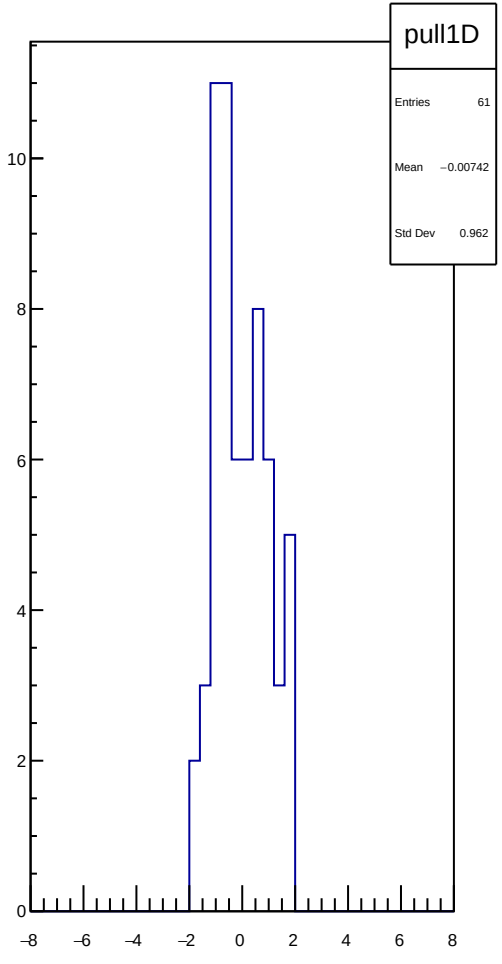

asym_sam2_correction_rms vs run
χ² / ndf 7308 / 60
p0 4402 ± 4.078
6500
6000
5500
5000
4500
4000

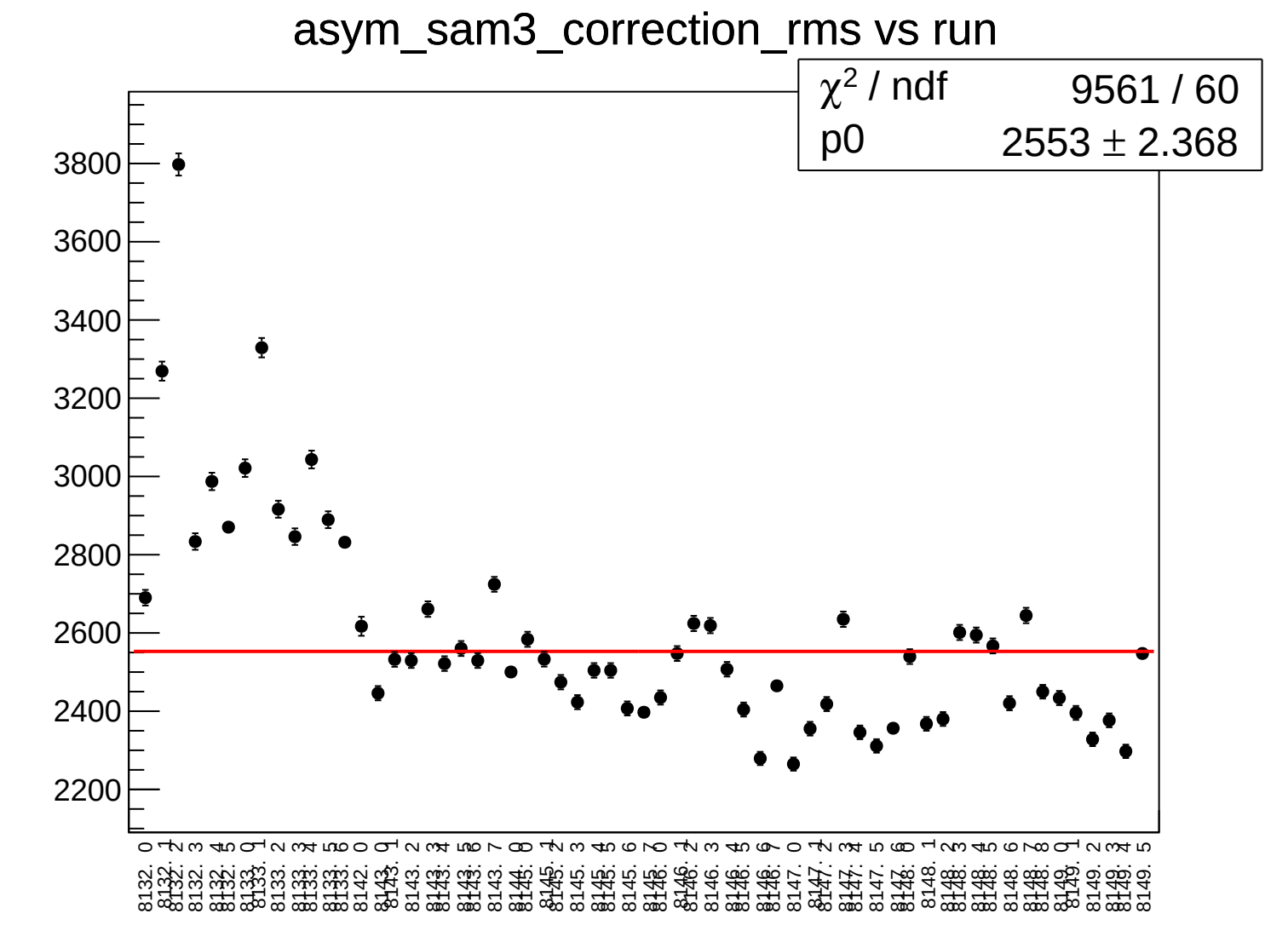

reg_asym_sam3_mean vs run
χ² / ndf 65.04 / 60
p0 −175.9 ± 281.8
pull
Entries 61
Mean −17.22
Std Dev 5.117

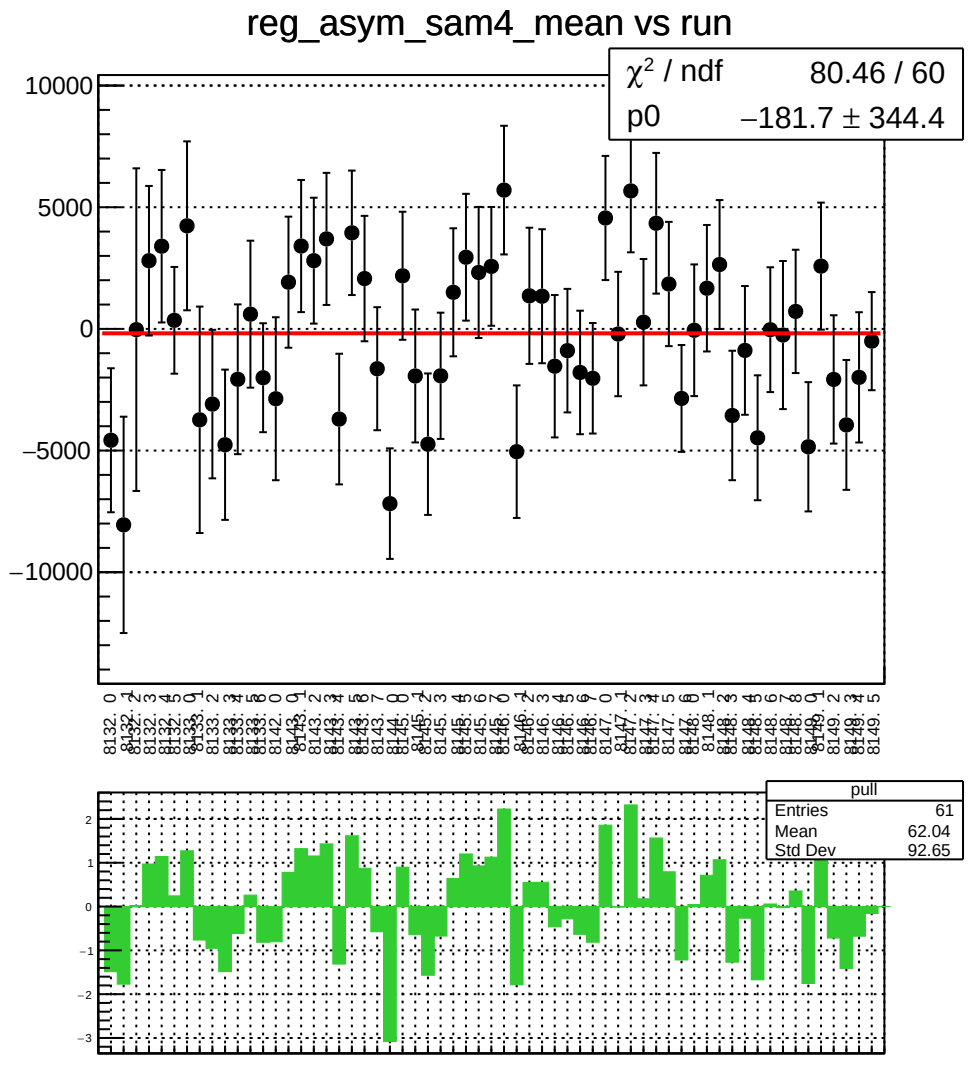

pull1D
Entries 61
Mean −0.02737
Std Dev 1.032

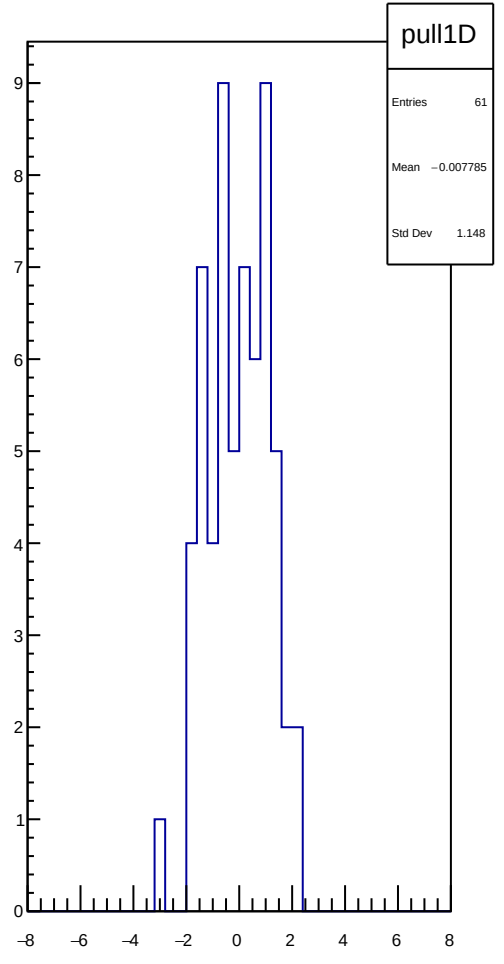

reg_asym_sam3_rms vs run
χ^2 / ndf 4.453e+04 / 60
p0 211.6 ± 0.1992
900
800
700
600
500
400
300
200

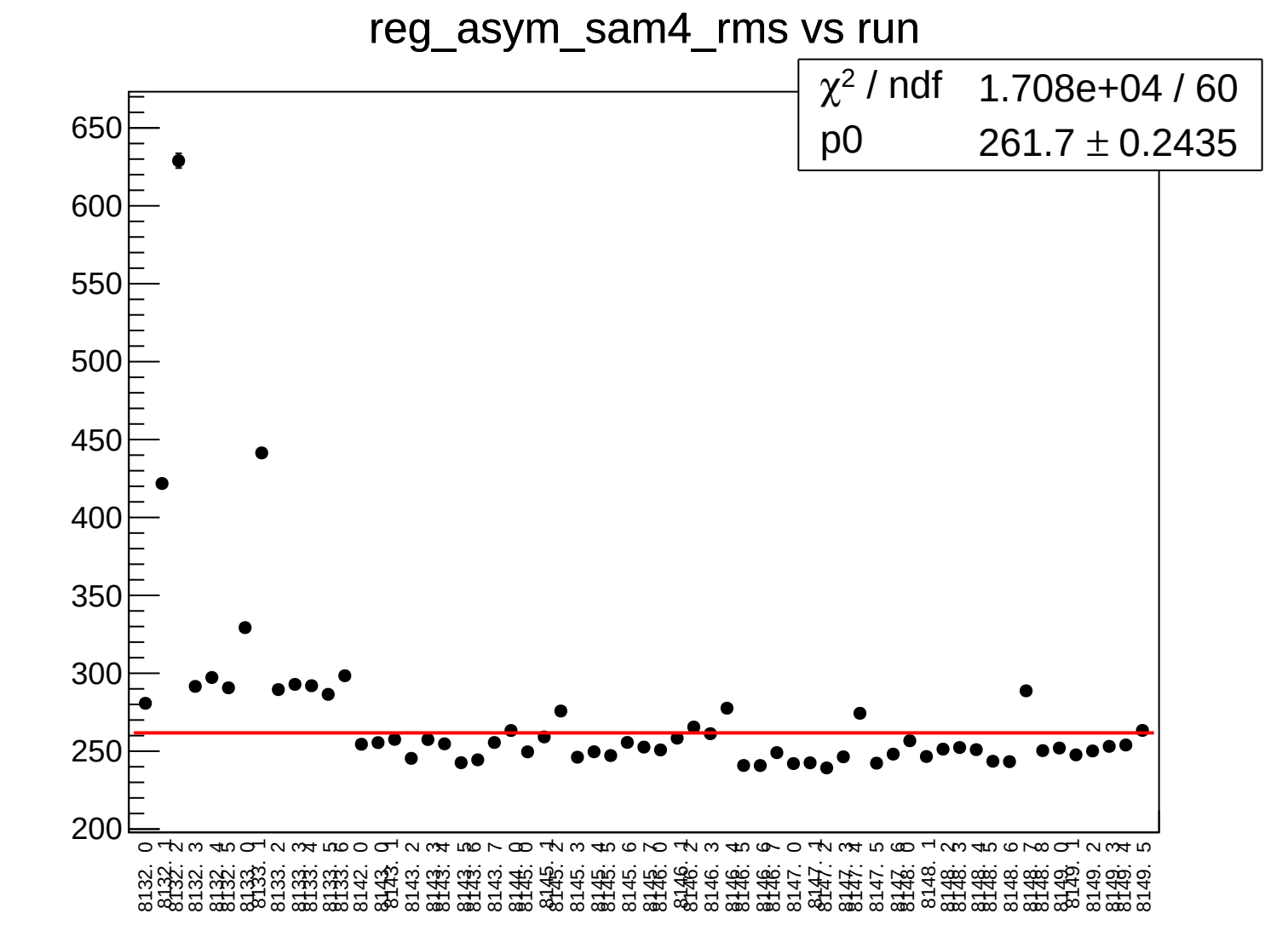

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 56.46 / 60
p0 −2519 ± 3348
100
50
0
−50
−100
pull
Entries 61
Mean −137.8
Std Dev 160.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

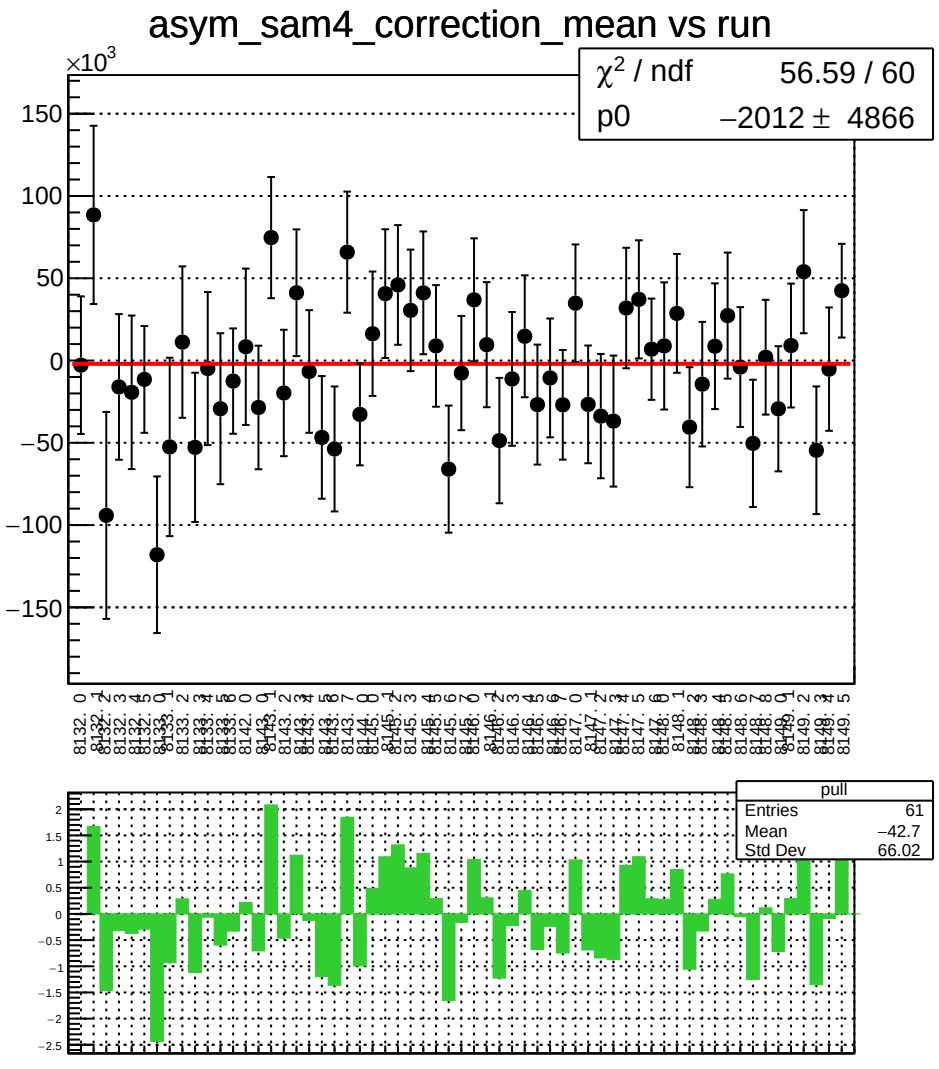

pull1D
Entries 61
Mean −0.00742
Std Dev 0.962
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

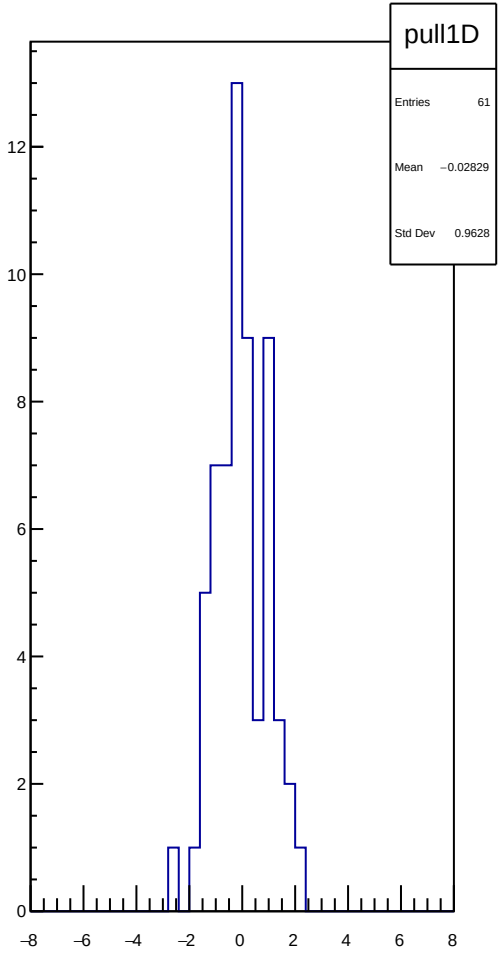

asym_sam3_correction_rms vs run
χ² / ndf 9561 / 60
p0 2553 ± 2.368
3800
3600
3400
3200
3000
2800
2600
2400
2200

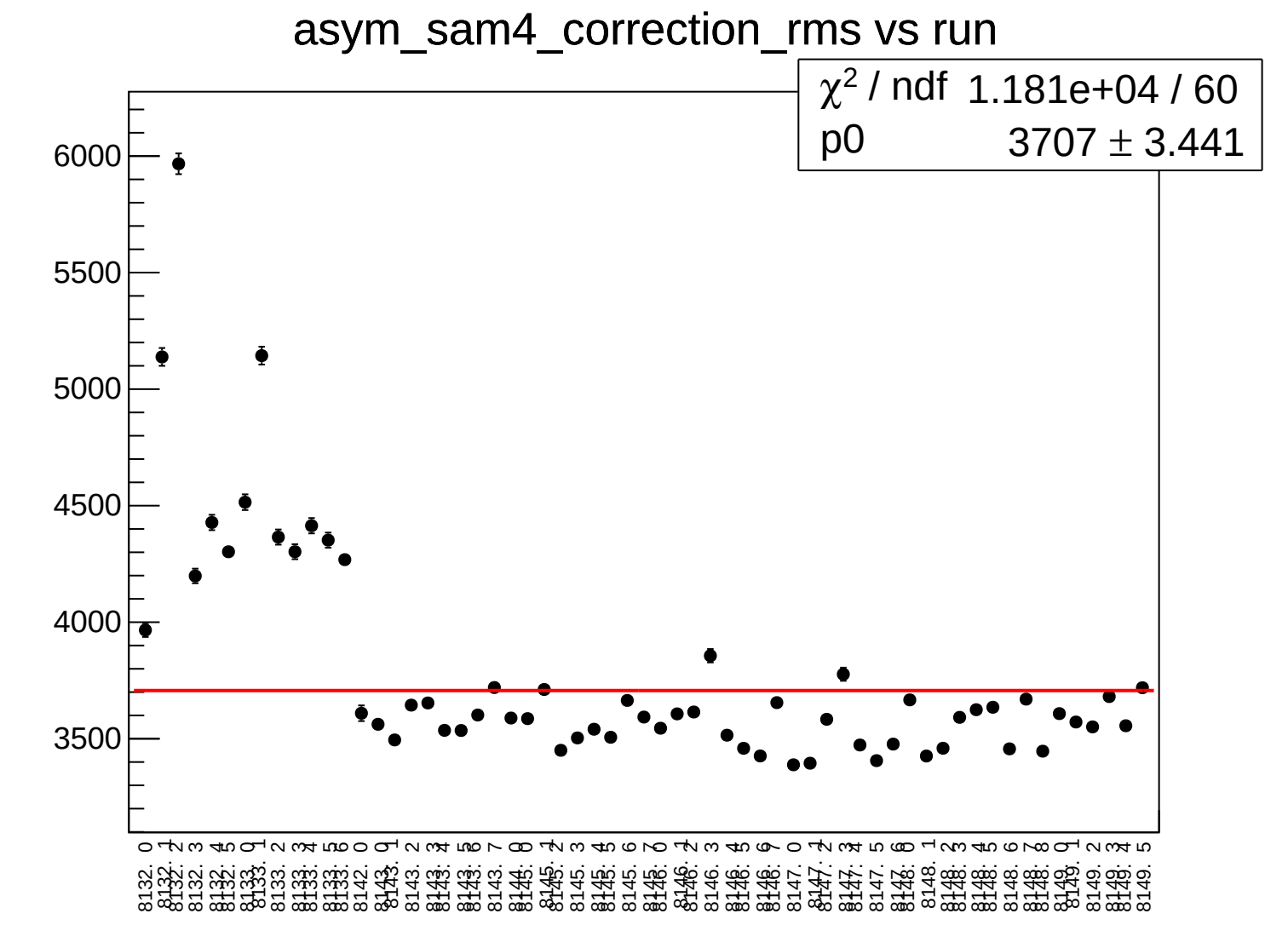

reg_asym_sam4_mean vs run
χ² / ndf 80.46 / 60
p0 −181.7 ± 344.4
10000
5000
0
−5000
−10000
pull
Entries 61
Mean 62.04
Std Dev 92.65
2
1
0
−1
−2
−3

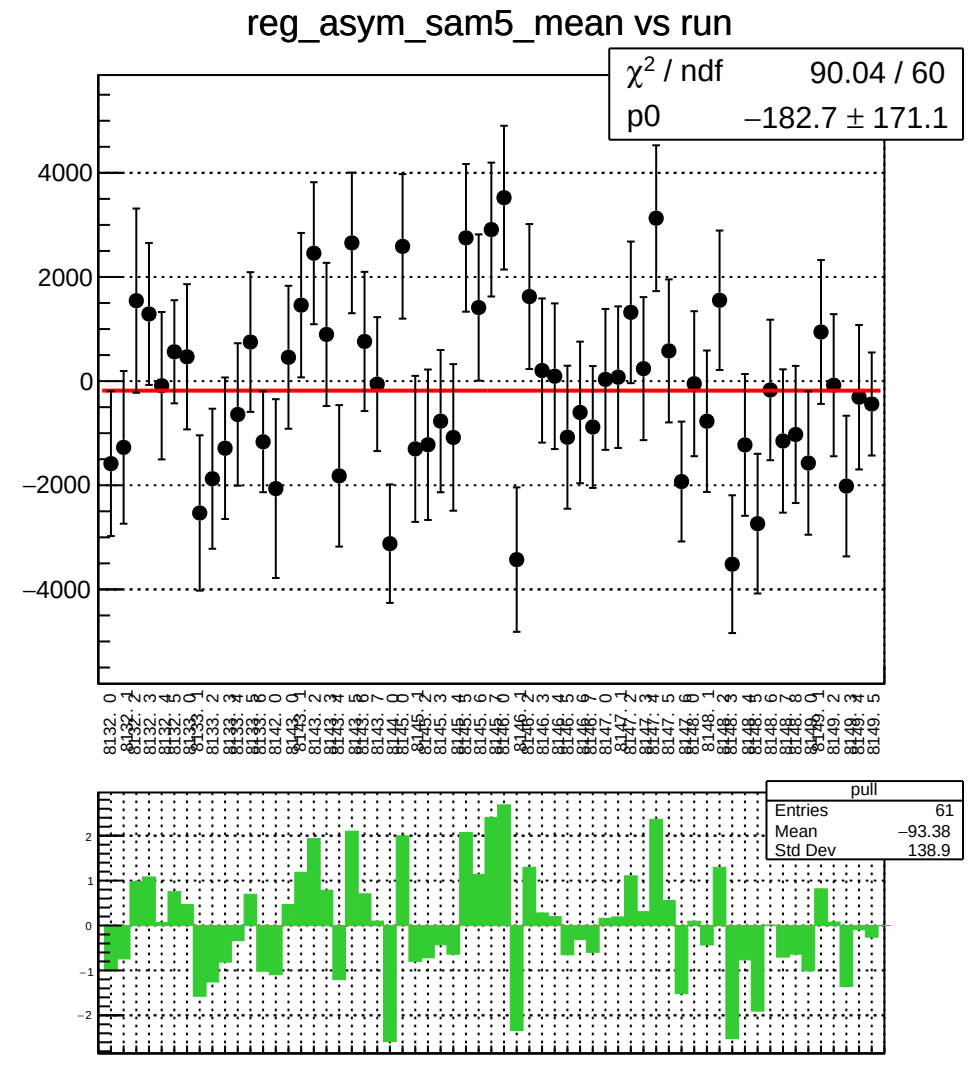

pull1D
Entries 61
Mean −0.007785
Std Dev 1.148
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

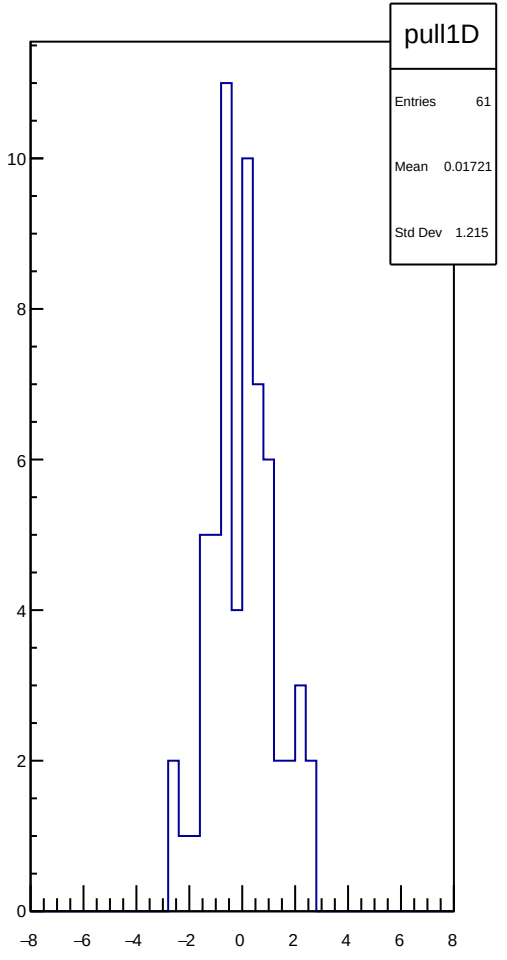

reg_asym_sam4_rms vs run
χ² / ndf 1.708e+04 / 60
p0 261.7 ± 0.2435
650
600
550
500
450
400
350
300
250
200
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 0
8133. 1
8133. 2
8133. 3
8133. 4
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

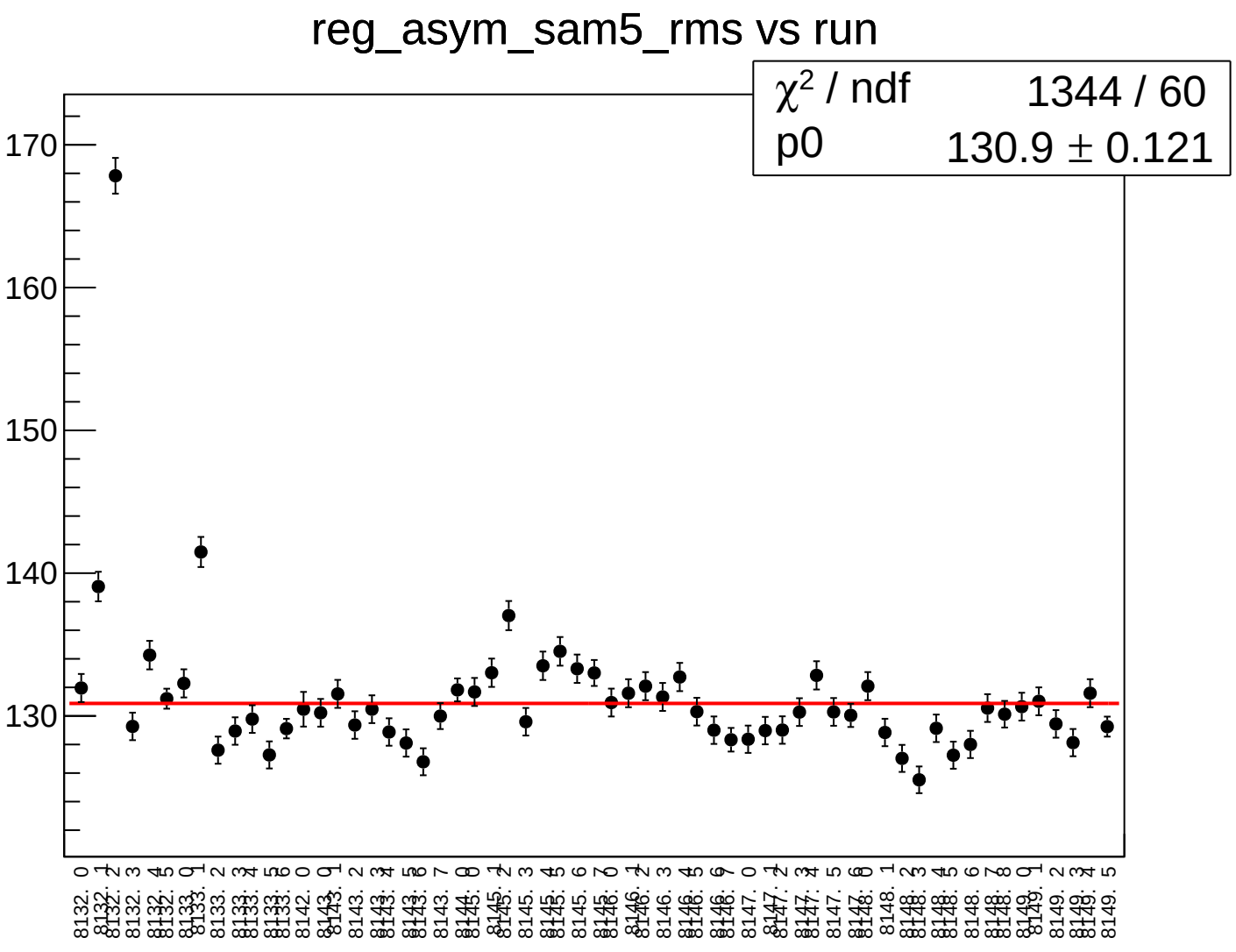

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 56.59 / 60
p0 −2012 ± 4866
150
100
50
0
−50
−100
−150
pull
Entries 61
Mean −42.7
Std Dev 66.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

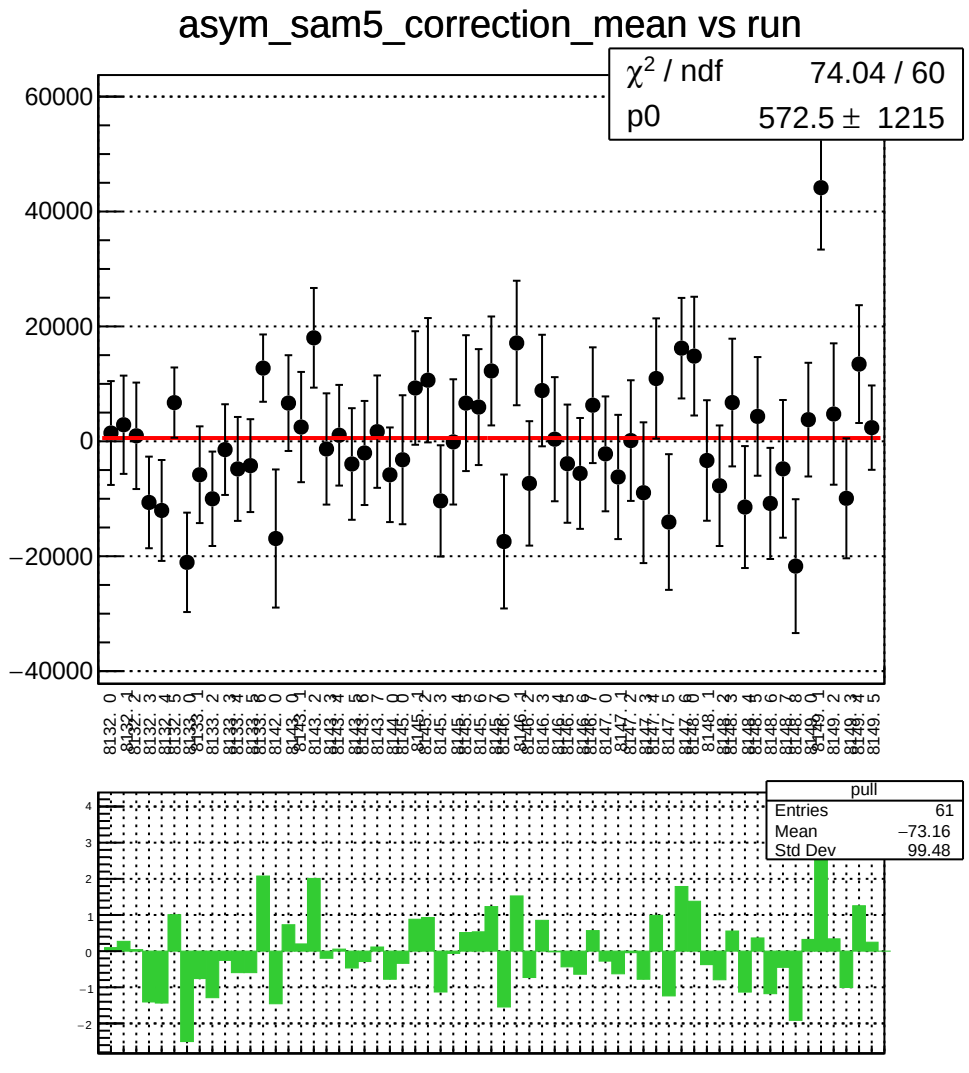

pull1D
Entries 61
Mean −0.02829
Std Dev 0.9628
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

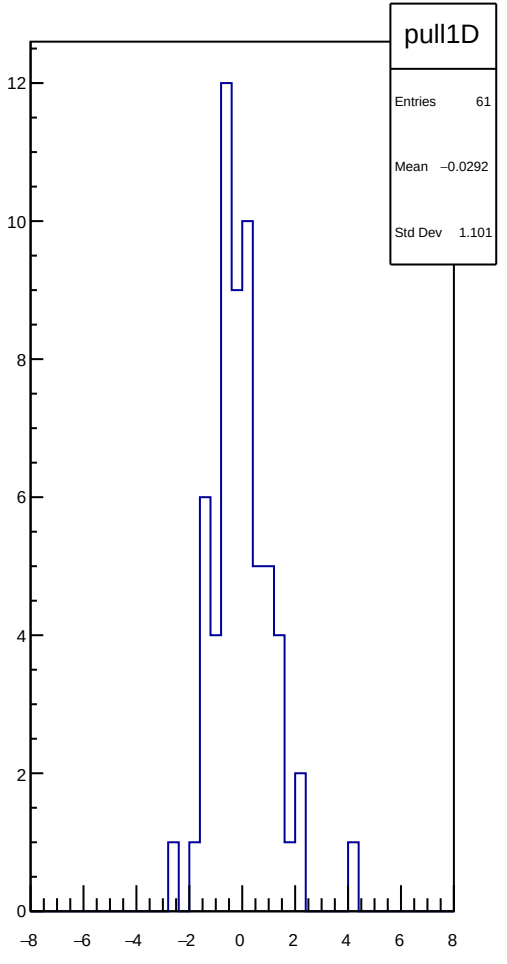

asym_sam4_correction_rms vs run
χ² / ndf 1.181e+04 / 60
p0 3707 ± 3.441
6000
5500
5000
4500
4000
3500

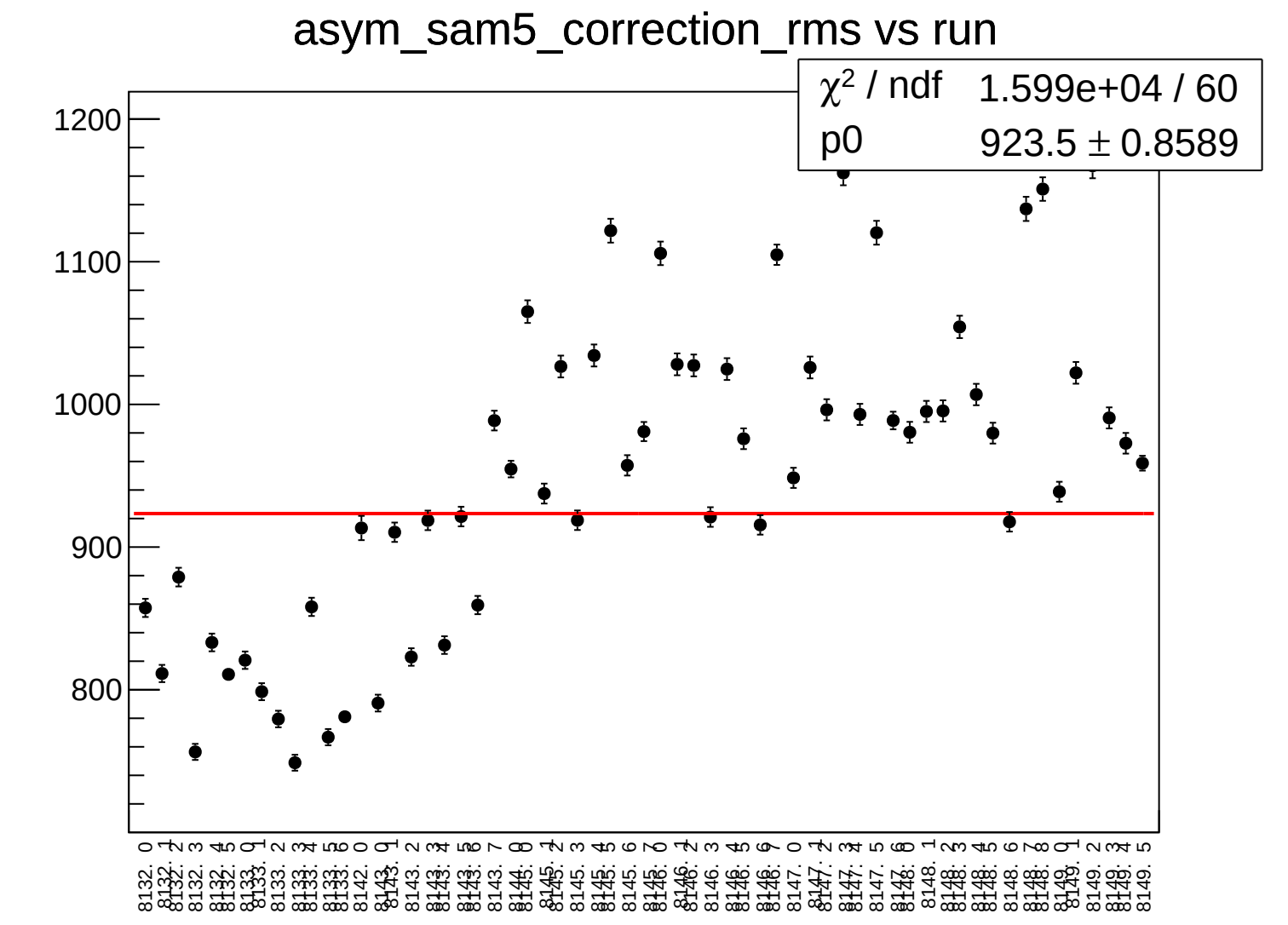

reg_asym_sam5_mean vs run
χ² / ndf 90.04 / 60
p0 −182.7 ± 171.1
4000
2000
0
−2000
−4000
pull
Entries 61
Mean −93.38
Std Dev 138.9
2
1
0
−1
−2

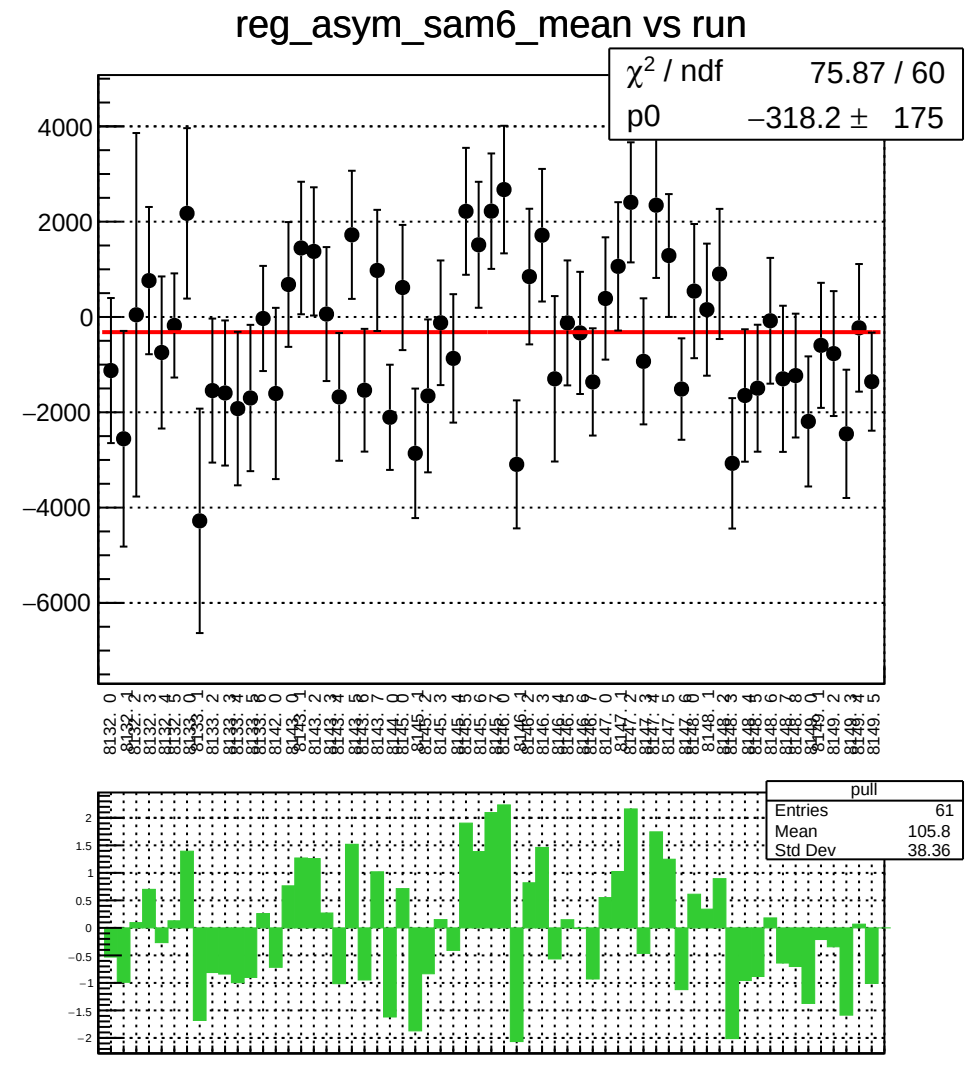

pull1D
Entries 61
Mean 0.01721
Std Dev 1.215
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

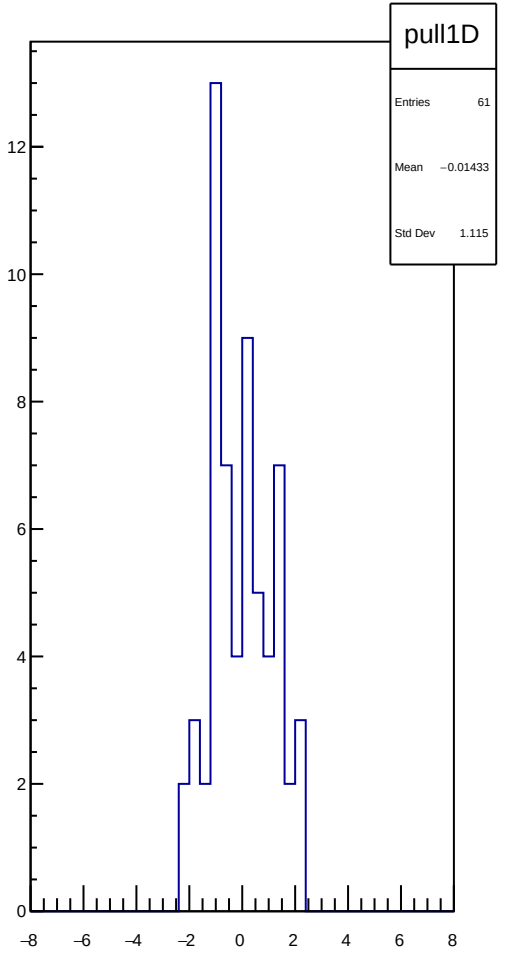

reg_asym_sam5_rms vs run
χ² / ndf 1344 / 60
p0 130.9 ± 0.121
170
160
150
140
130

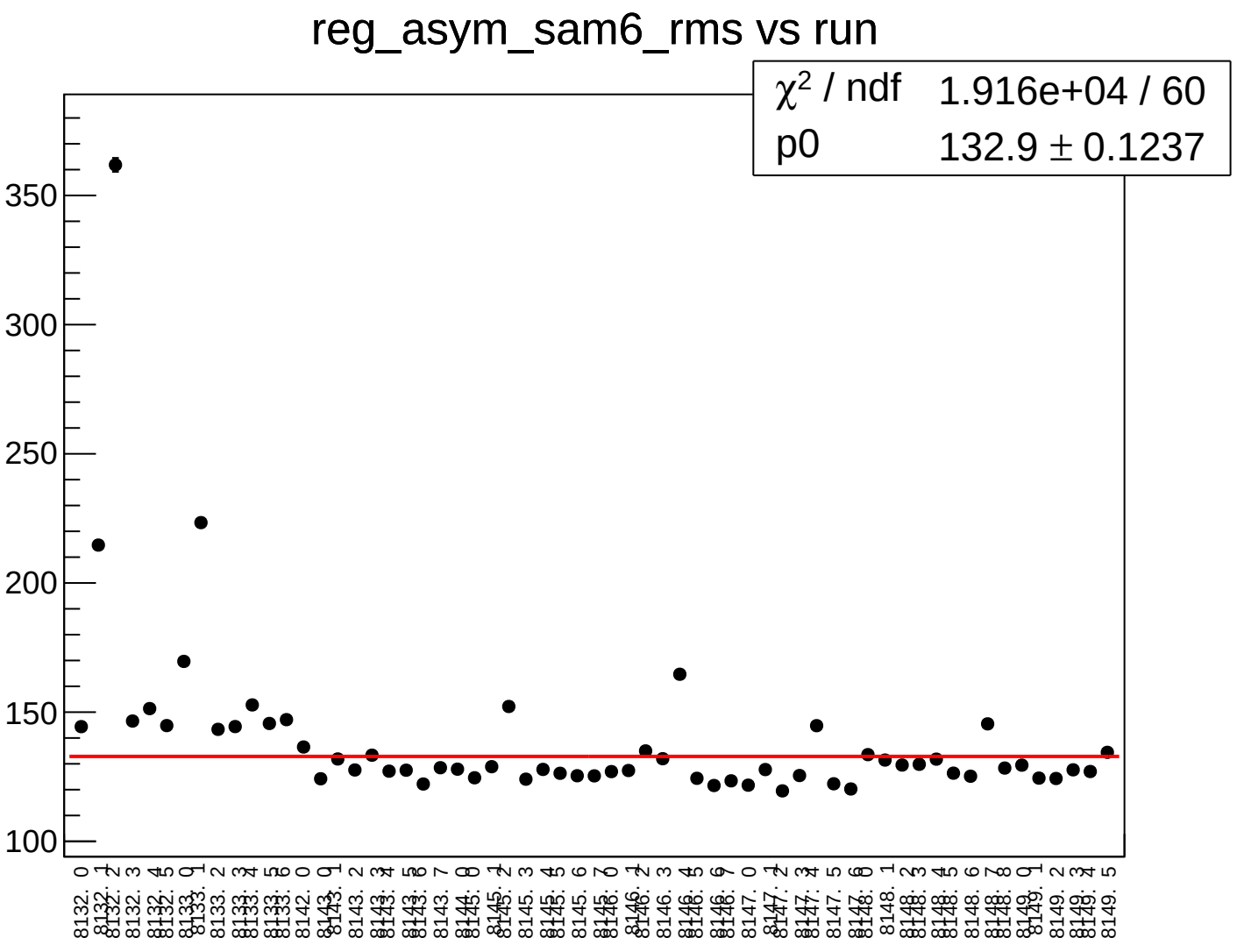

asym_sam5_correction_mean vs run
χ² / ndf 74.04 / 60
p0 572.5 ± 1215
pull
Entries 61
Mean −73.16
Std Dev 99.48

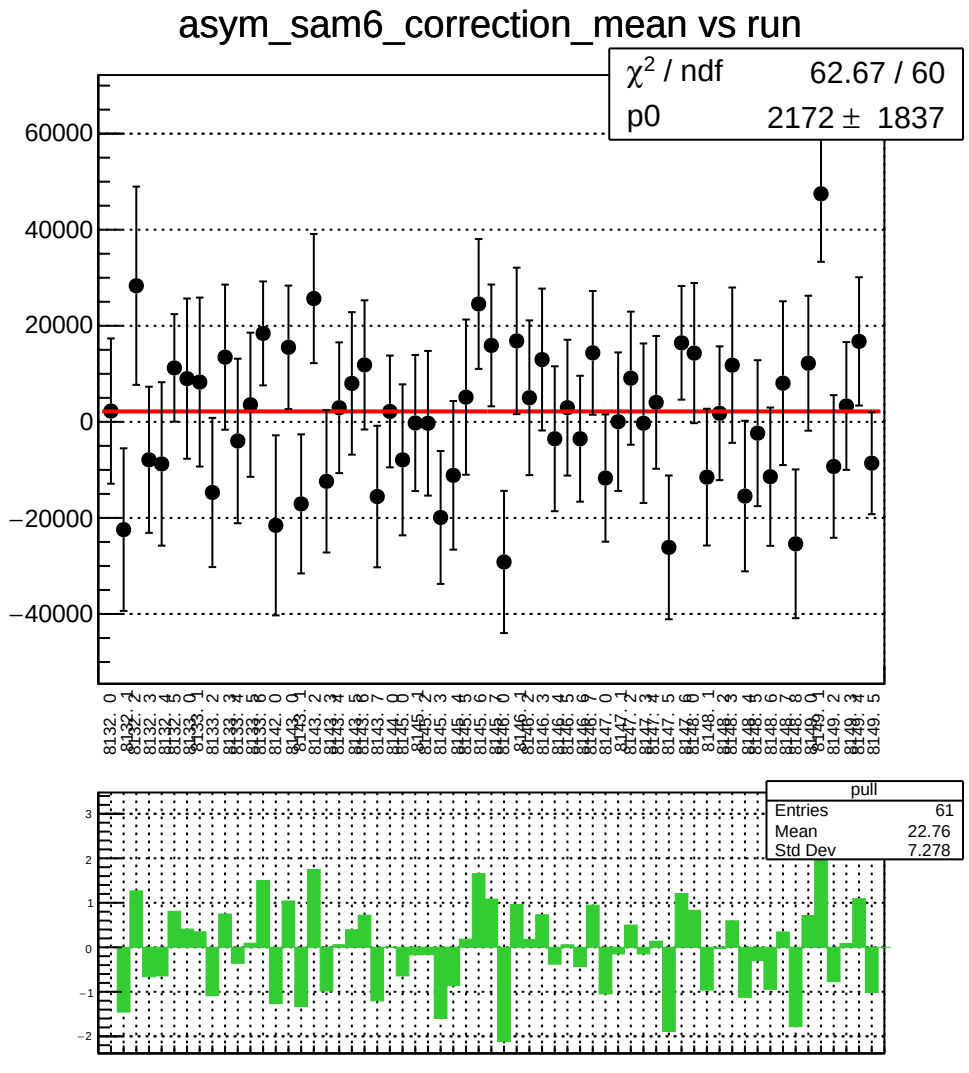

pull1D
Entries 61
Mean −0.0292
Std Dev 1.101

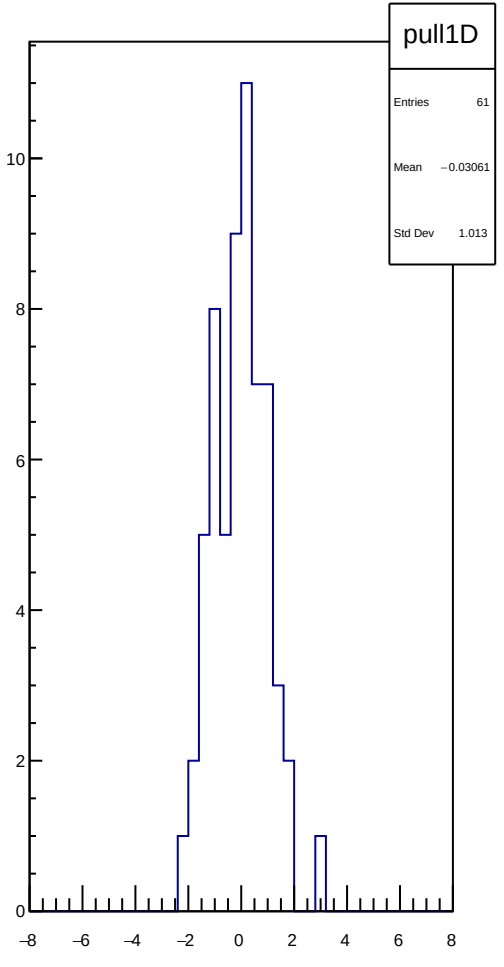

asym_sam5_correction_rms vs run
χ² / ndf 1.599e+04 / 60
p0 923.5 ± 0.8589
1200
1100
1000
900
800
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 0
8133. 1
8133. 2
8133. 3
8133. 4
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

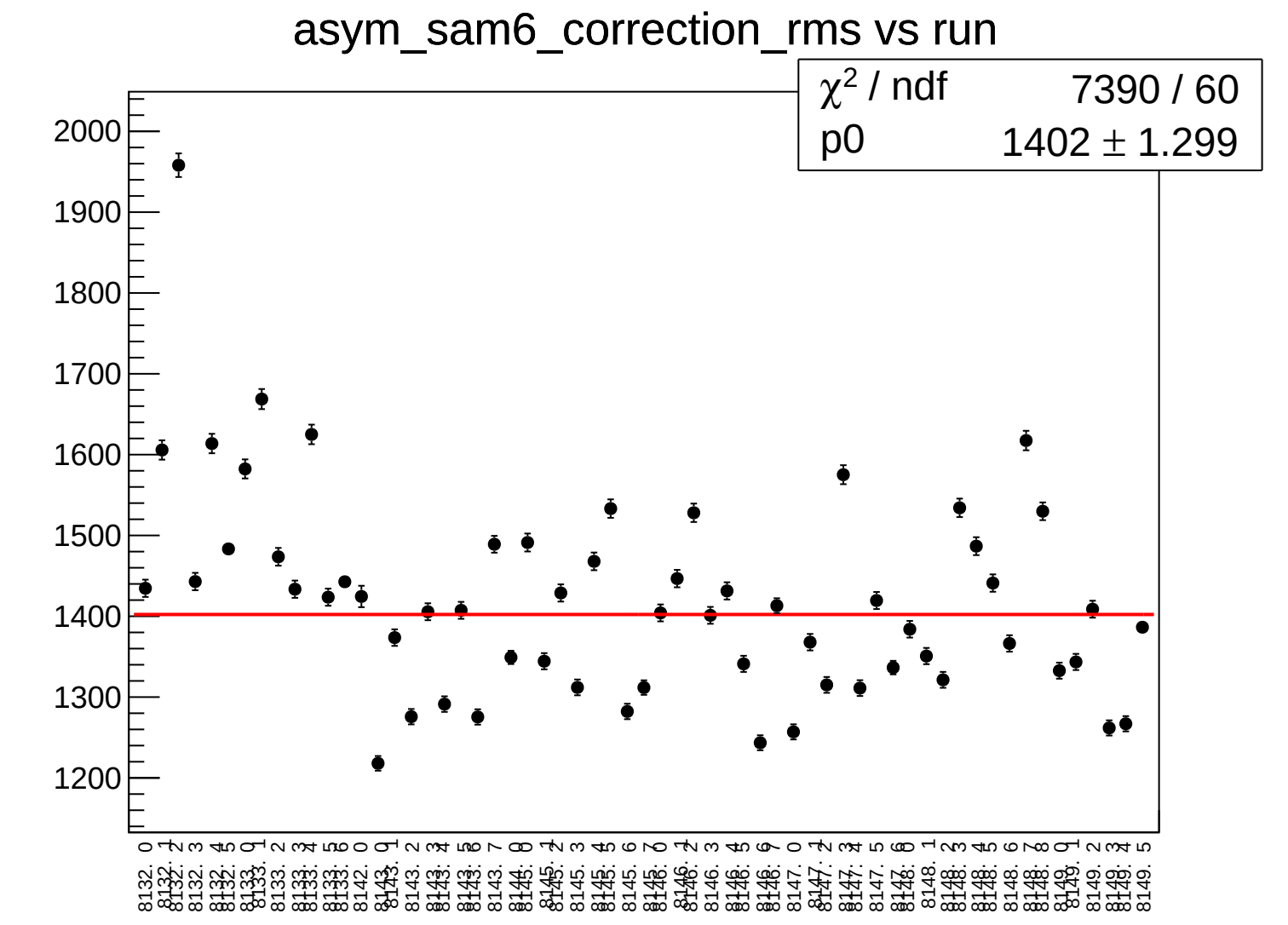

reg_asym_sam6_mean vs run
χ² / ndf 75.87 / 60
p0 −318.2 ± 175
4000
2000
0
−2000
−4000
−6000
pull
Entries 61
Mean 105.8
Std Dev 38.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

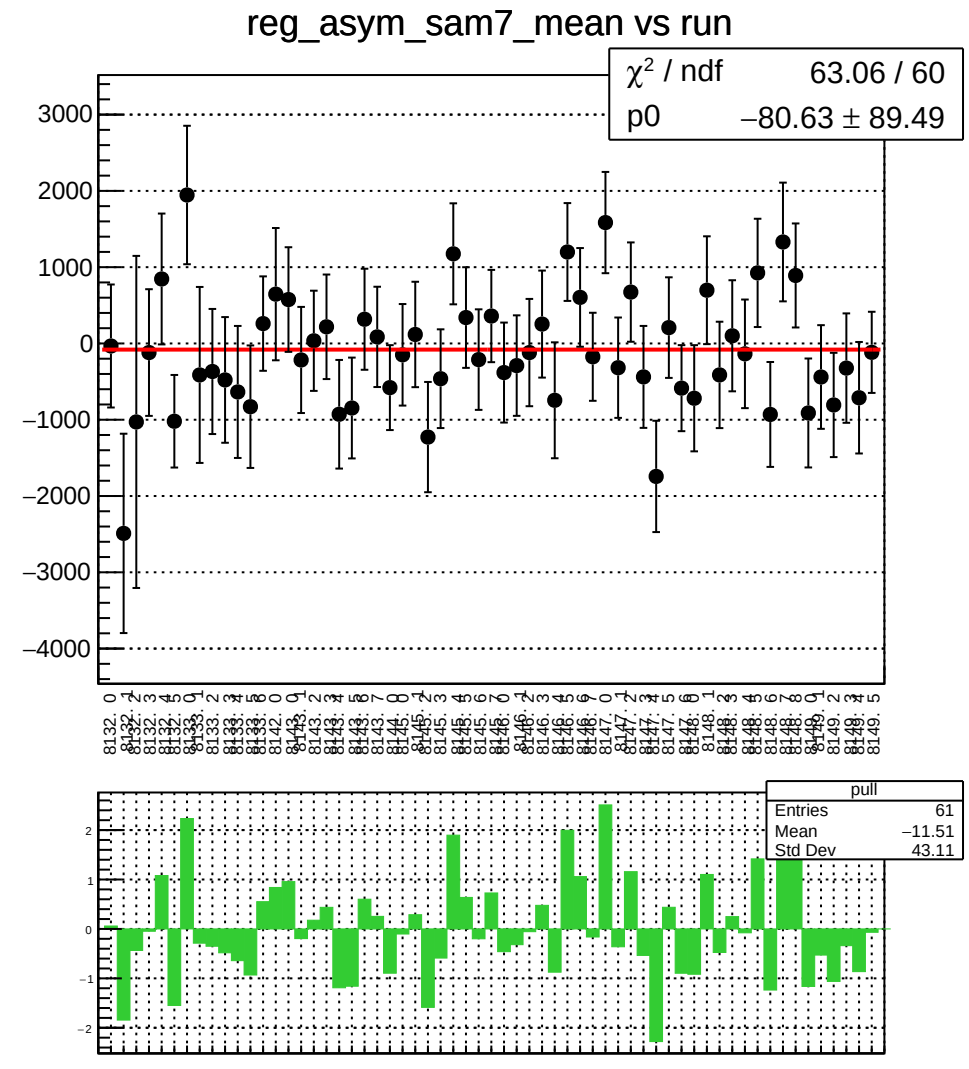

pull1D
Entries 61
Mean −0.01433
Std Dev 1.115
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

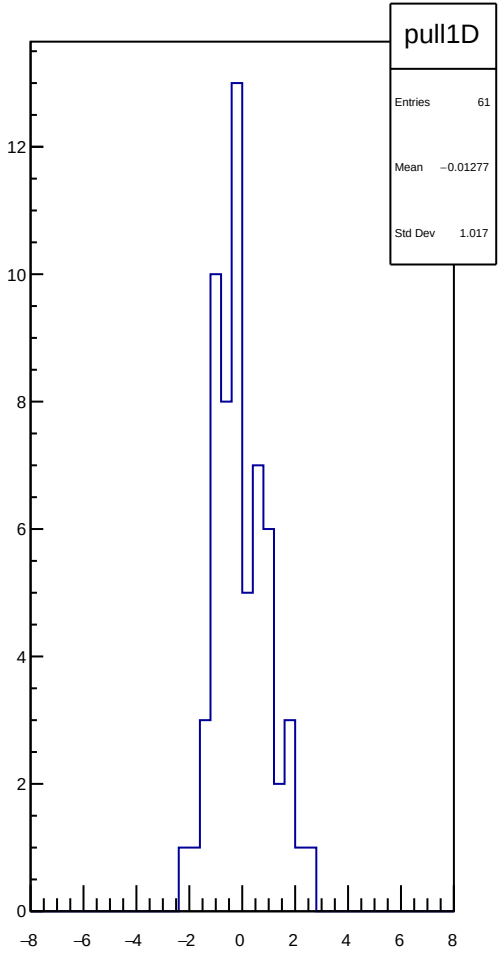

reg_asym_sam6_rms vs run
χ² / ndf 1.916e+04 / 60
p0 132.9 ± 0.1237
350
300
250
200
150
100

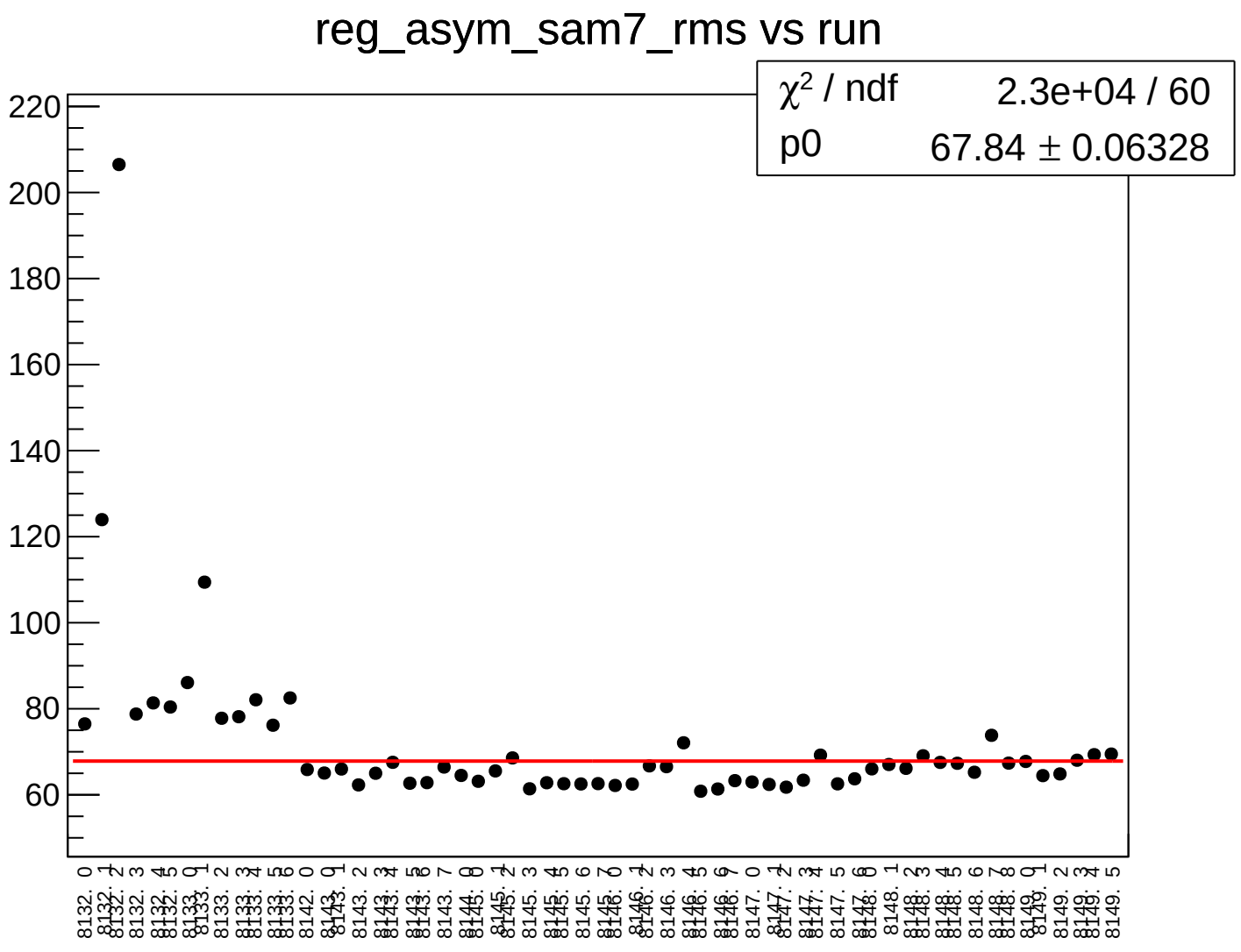

asym_sam6_correction_mean vs run
χ² / ndf 62.67 / 60
p0 2172 ± 1837
60000
40000
20000
0
−20000
−40000
pull
Entries 61
Mean 22.76
Std Dev 7.278
3
2
1
0
−1
−2

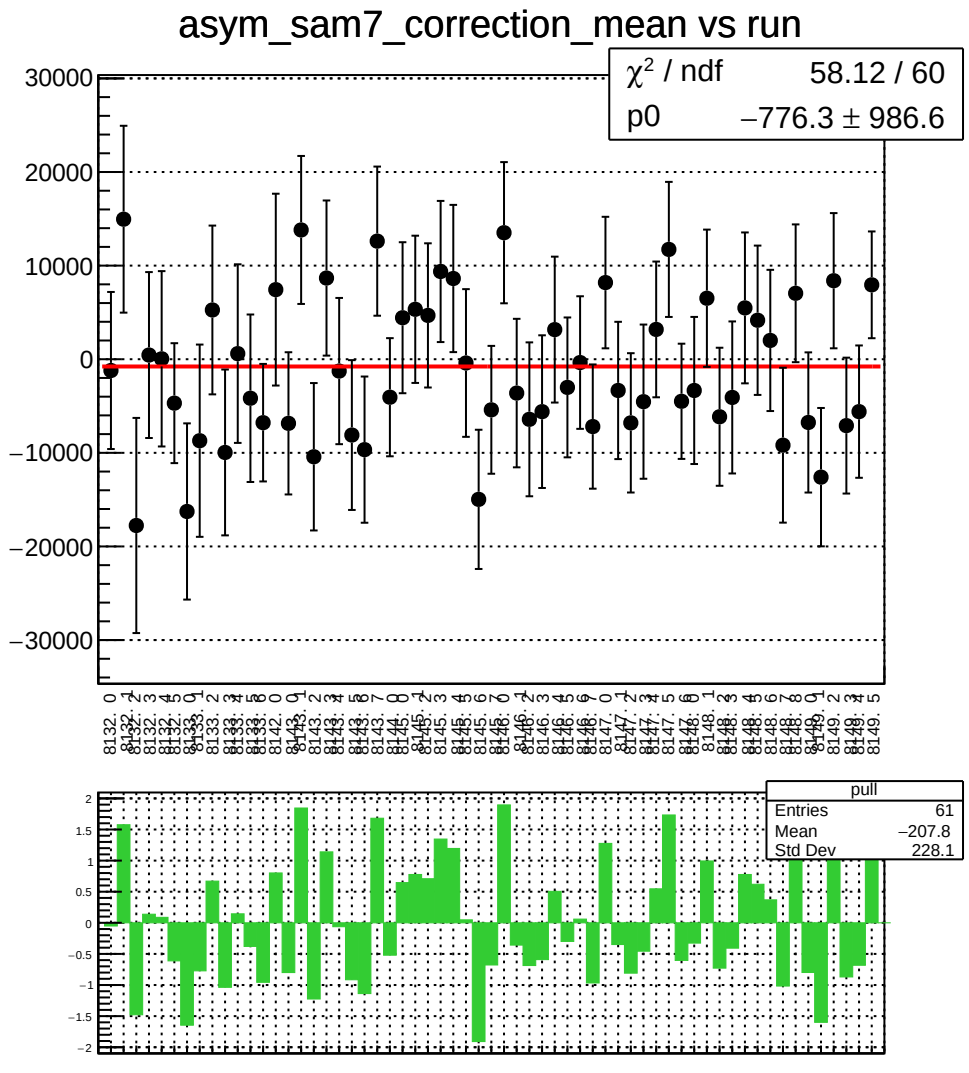

pull1D
Entries 61
Mean −0.03061
Std Dev 1.013
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

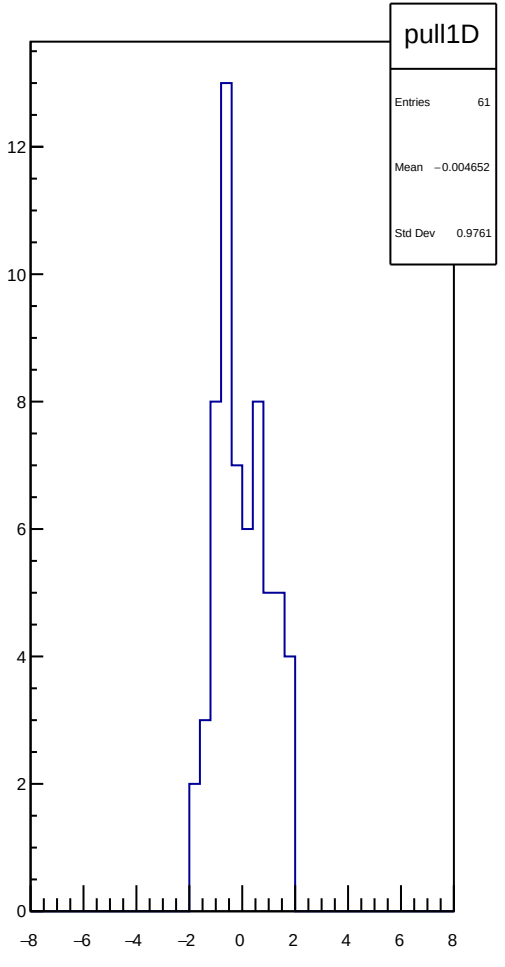

asym_sam6_correction_rms vs run
χ² / ndf 7390 / 60
p0 1402 ± 1.299
2000
1900
1800
1700
1600
1500
1400
1300
1200

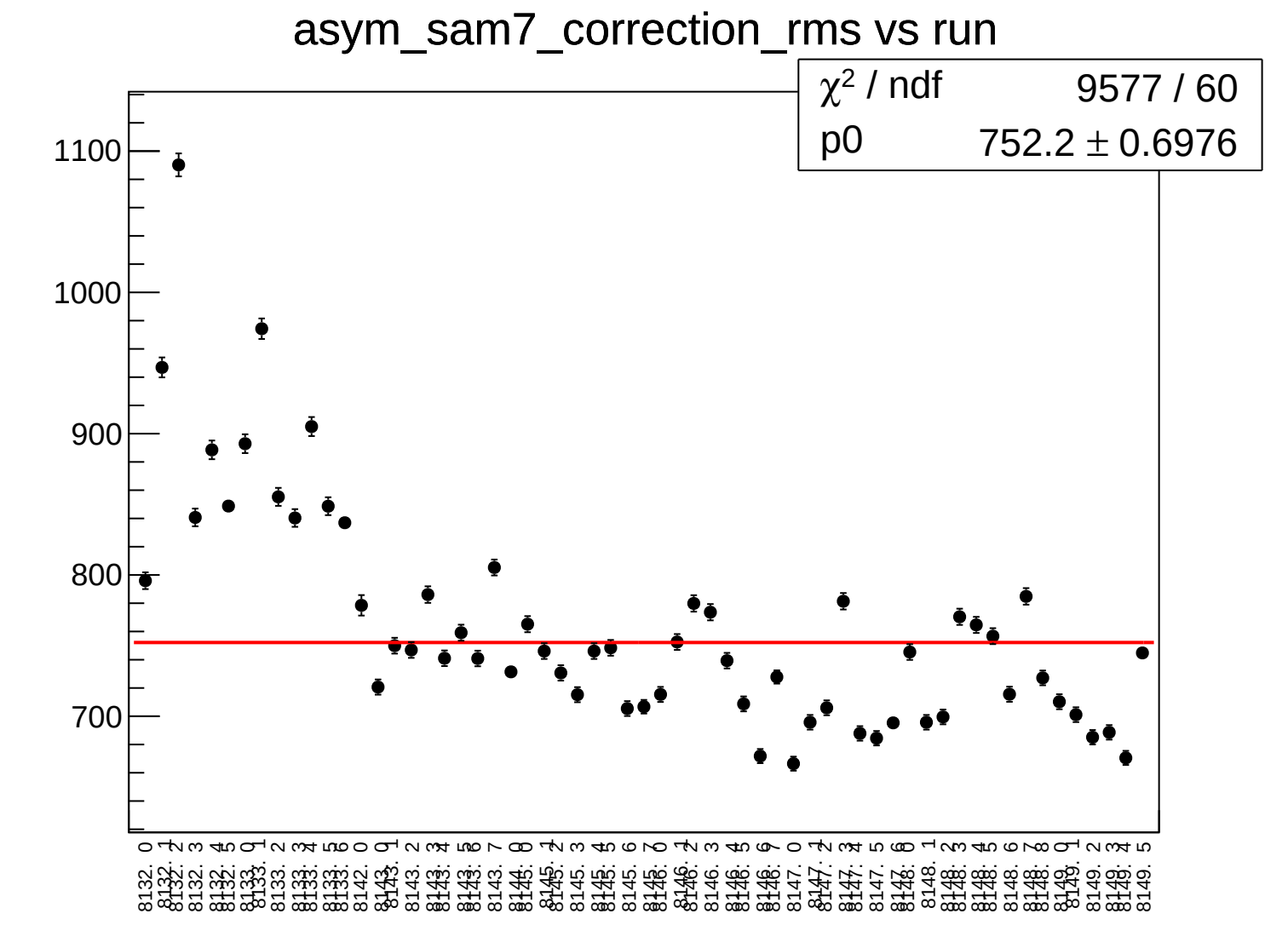

reg_asym_sam7_mean vs run
χ² / ndf 63.06 / 60
p0 −80.63 ± 89.49
pull
Entries 61
Mean −11.51
Std Dev 43.11

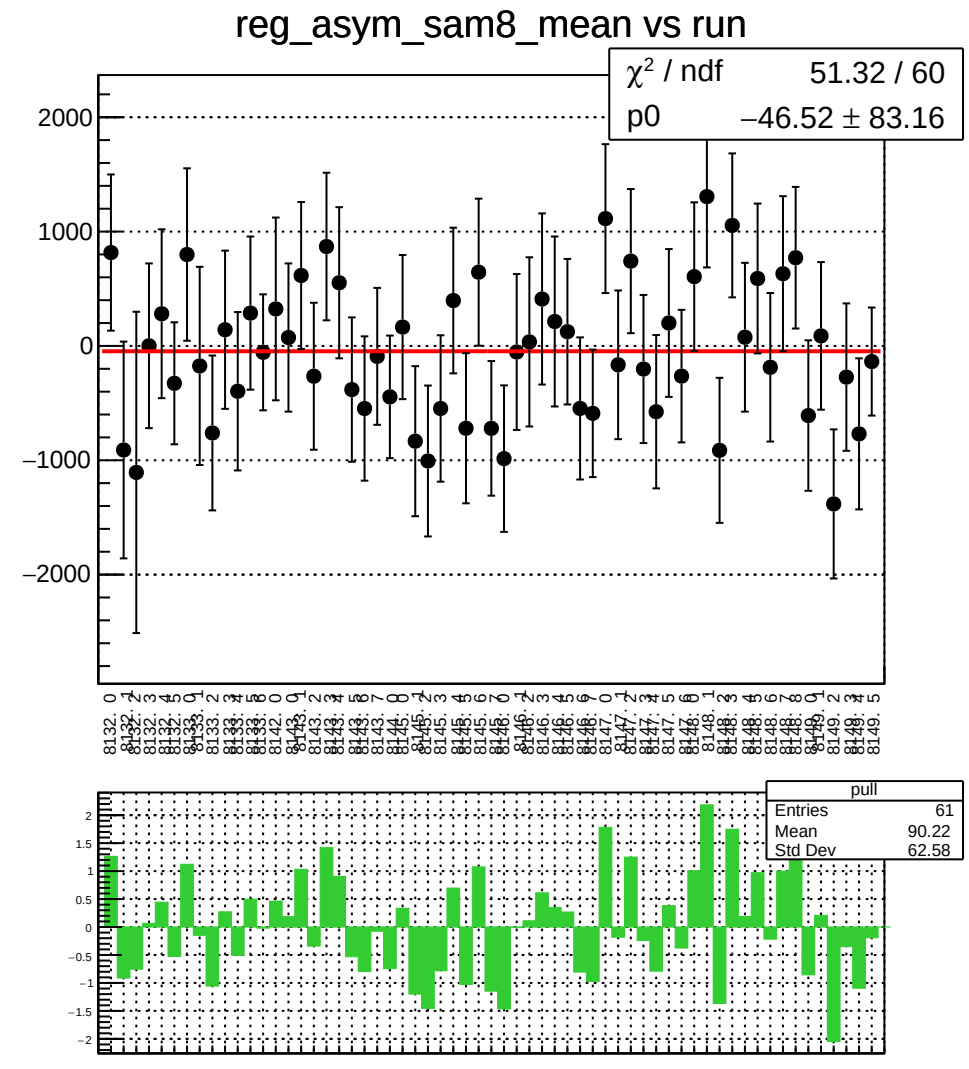

pull1D
Entries 61
Mean −0.01277
Std Dev 1.017

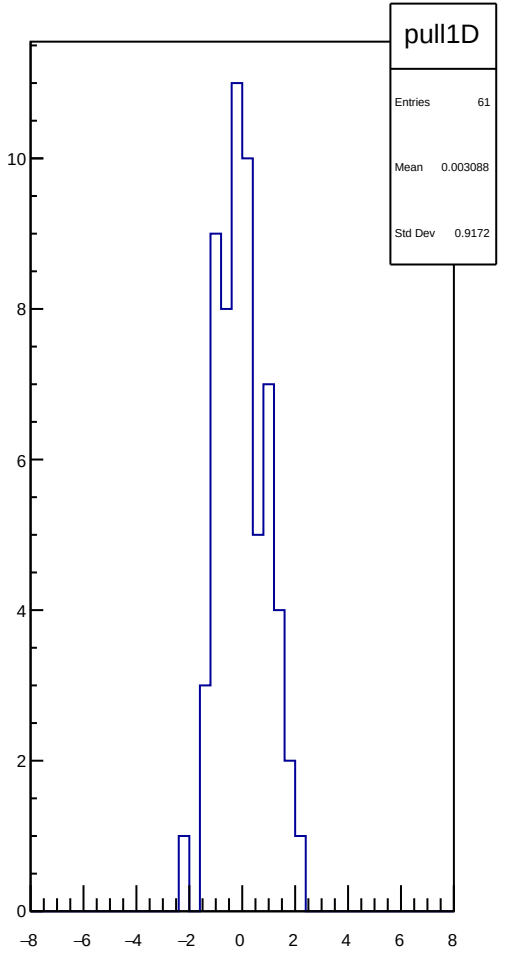

reg_asym_sam7_rms vs run
χ² / ndf 2.3e+04 / 60
p0 67.84 ± 0.06328
220
200
180
160
140
120
100
80
60

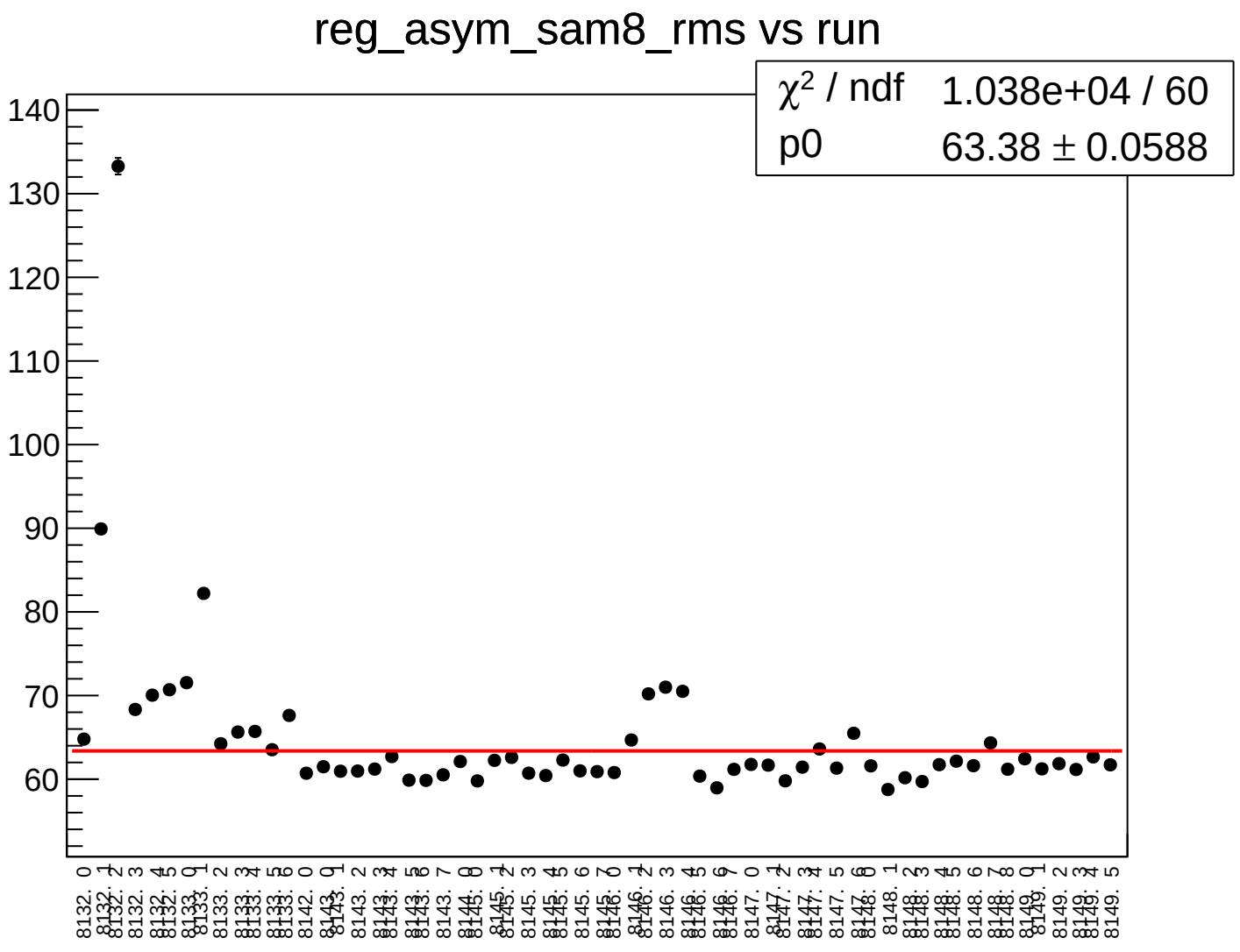

asym_sam7_correction_mean vs run
χ² / ndf 58.12 / 60
p0 −776.3 ± 986.6
pull
Entries 61
Mean −207.8
Std Dev 228.1

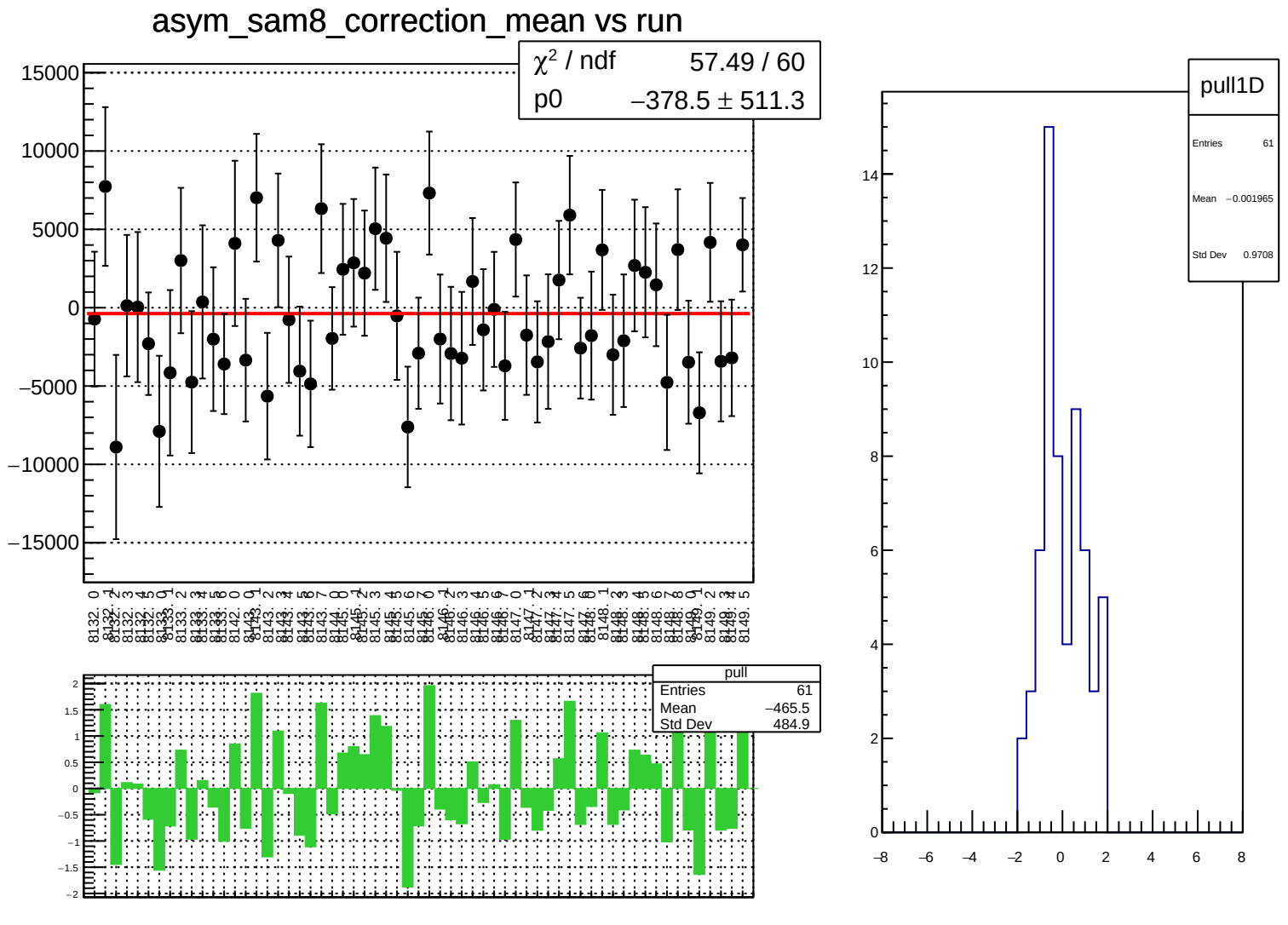

pull1D
Entries 61
Mean −0.004652
Std Dev 0.9761

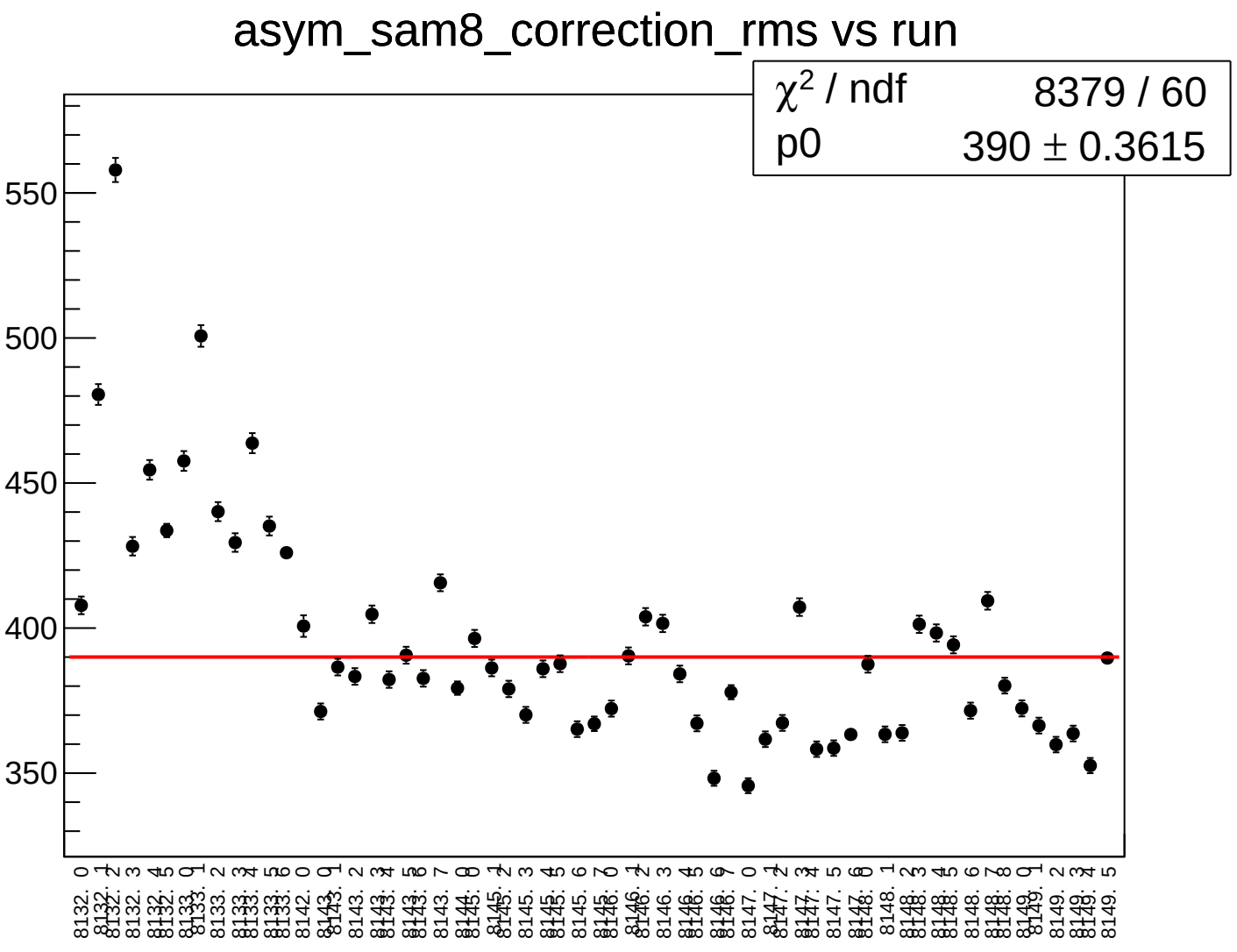

asym_sam7_correction_rms vs run
χ² / ndf 9577 / 60
p0 752.2 ± 0.6976
1100
1000
900
800
700

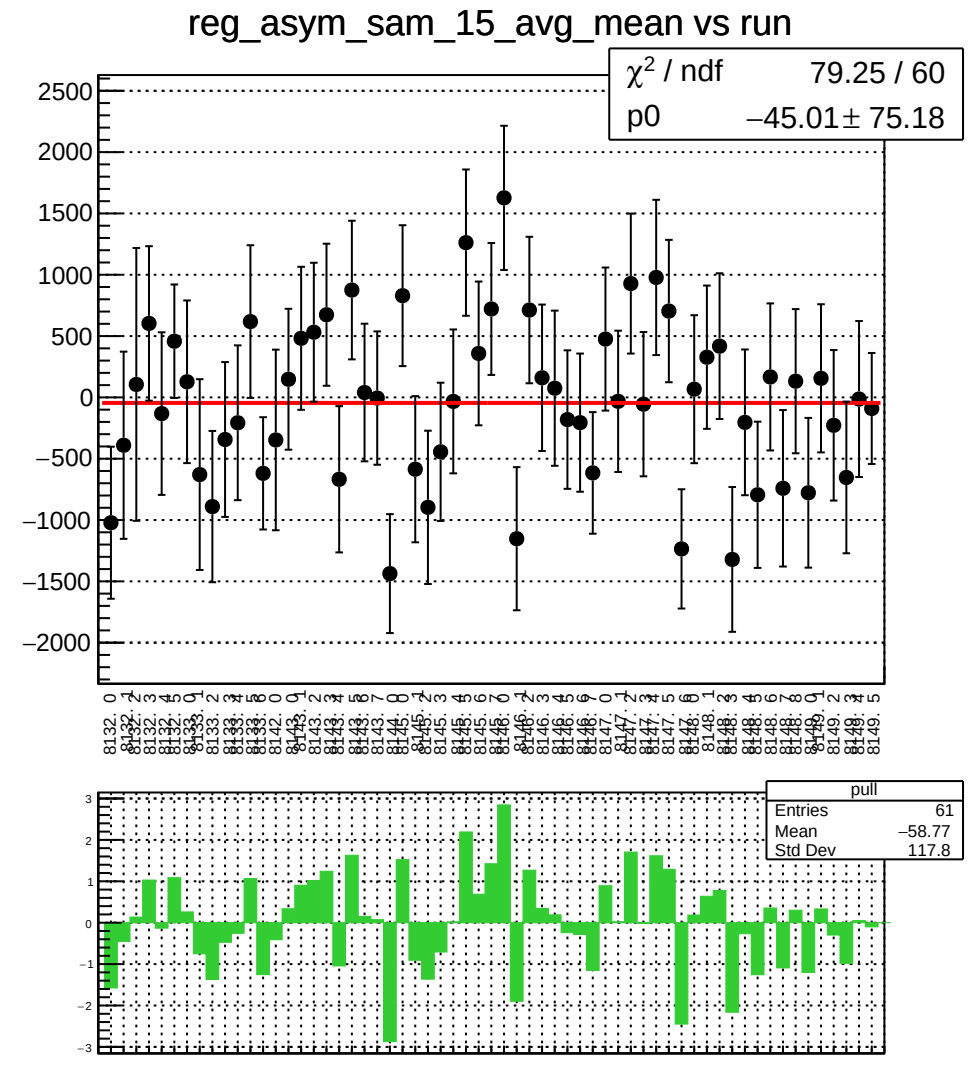

reg_asym_sam8_mean vs run
χ² / ndf 51.32 / 60
p0 −46.52 ± 83.16
2000
1000
0
−1000
−2000
pull
Entries 61
Mean 90.22
Std Dev 62.58
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

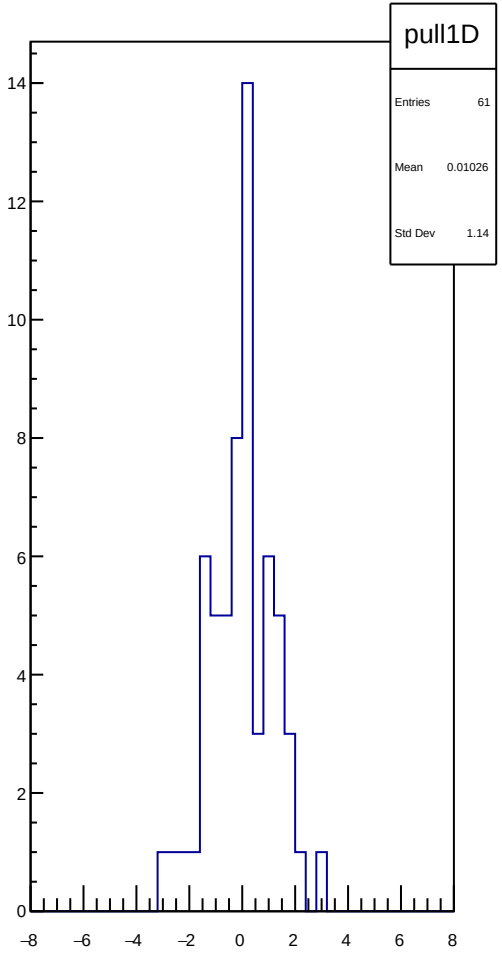

pull1D
Entries 61
Mean 0.003088
Std Dev 0.9172
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

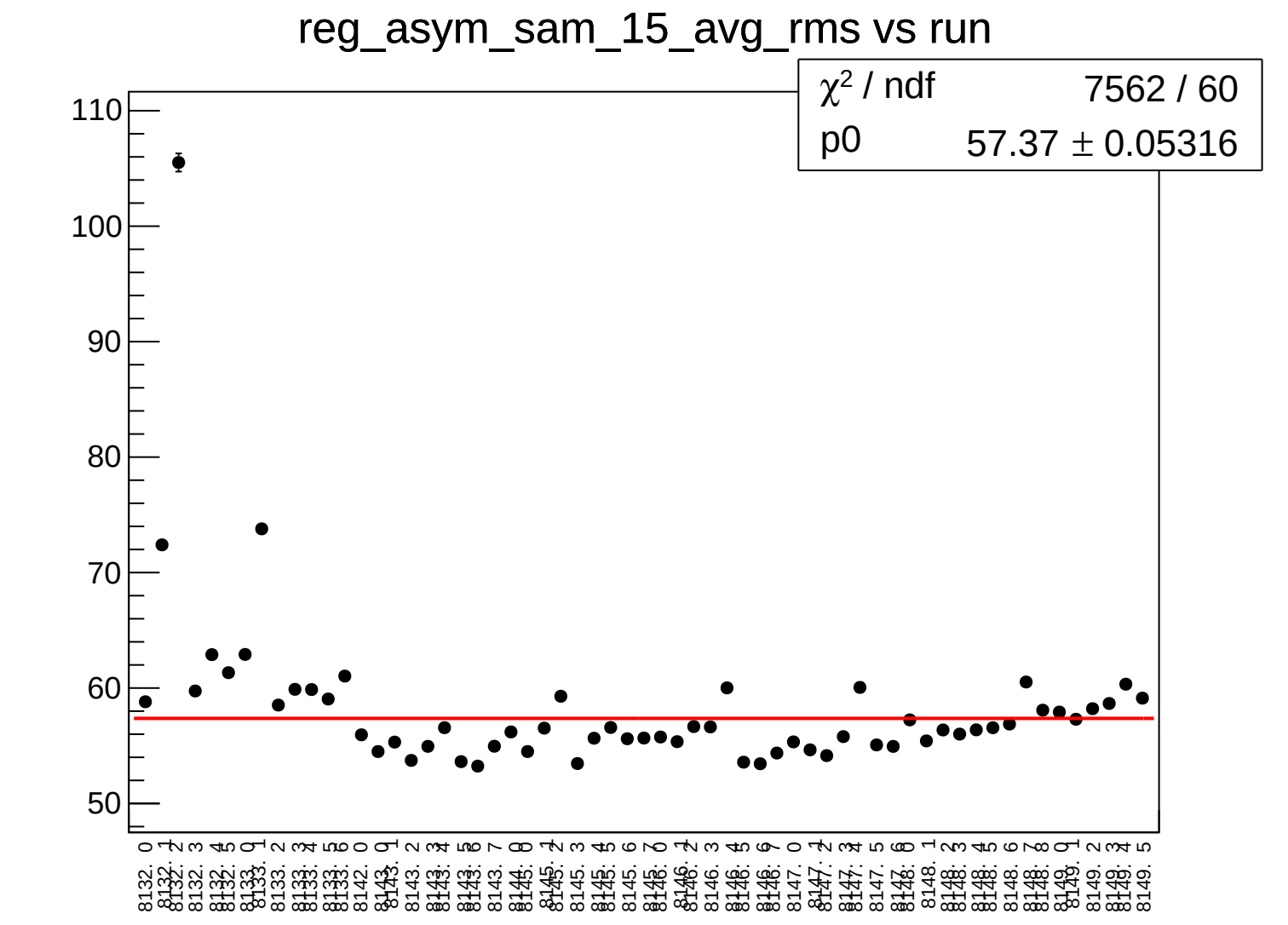

reg_asym_sam8_rms vs run
χ² / ndf 1.038e+04 / 60
p0 63.38 ± 0.0588
140
130
120
110
100
90
80
70
60

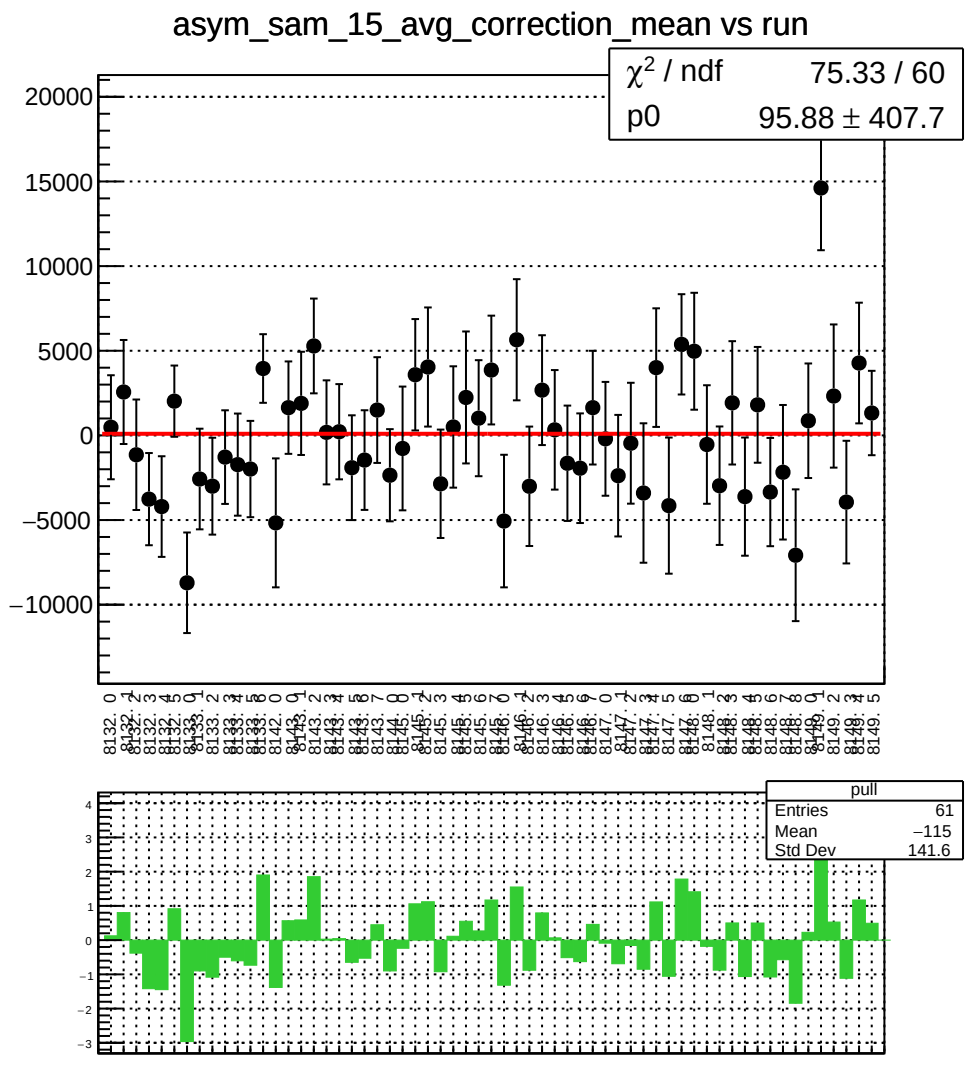

asym_sam8_correction_mean vs run
χ² / ndf 57.49 / 60
p0 −378.5 ± 511.3
pull
Entries 61
Mean −465.5
Std Dev 484.9
pull1D
Entries 61
Mean −0.001965
Std Dev 0.9708

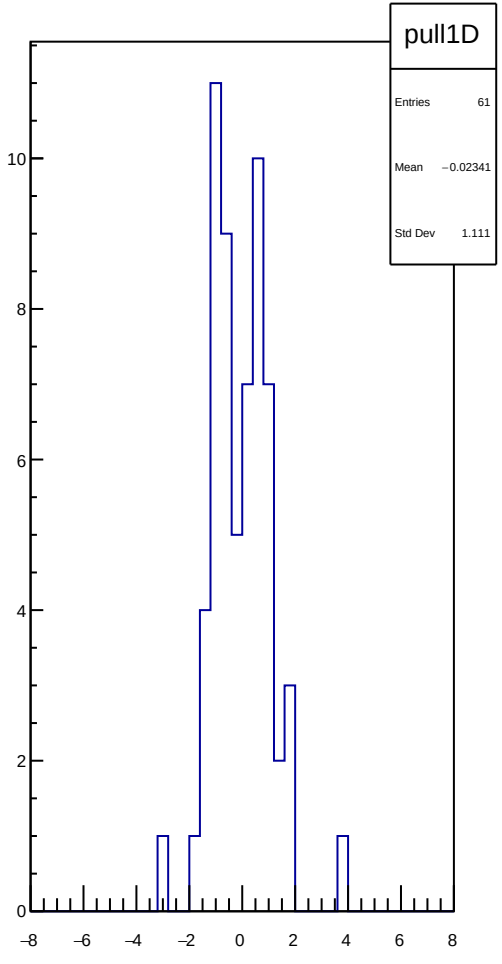

asym_sam8_correction_rms vs run
χ² / ndf 8379 / 60
p0 390 ± 0.3615
550
500
450
400
350

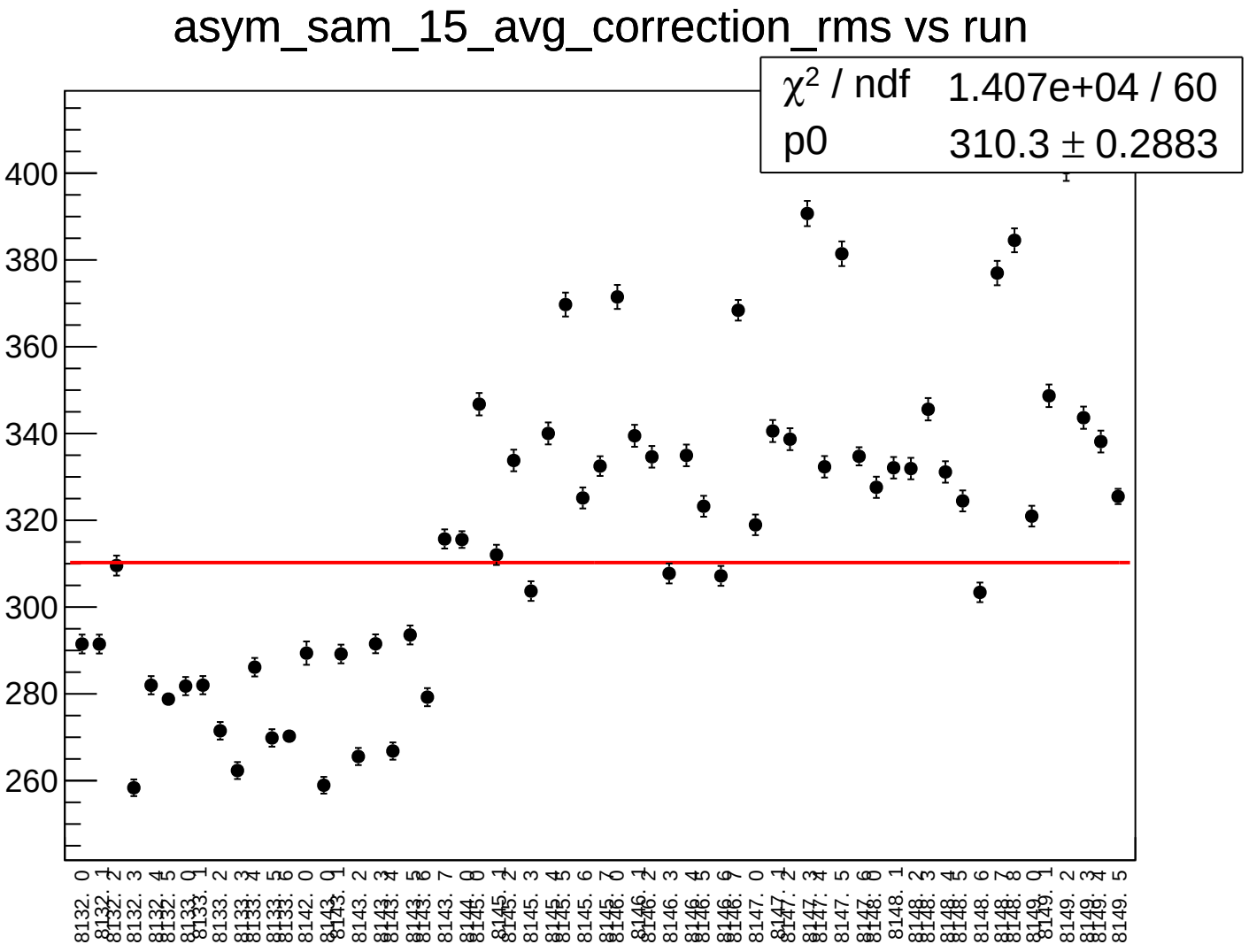

reg_asym_sam_15_avg_mean vs run
χ² / ndf 79.25 / 60
p0 −45.01± 75.18
pull
Entries 61
Mean −58.77
Std Dev 117.8

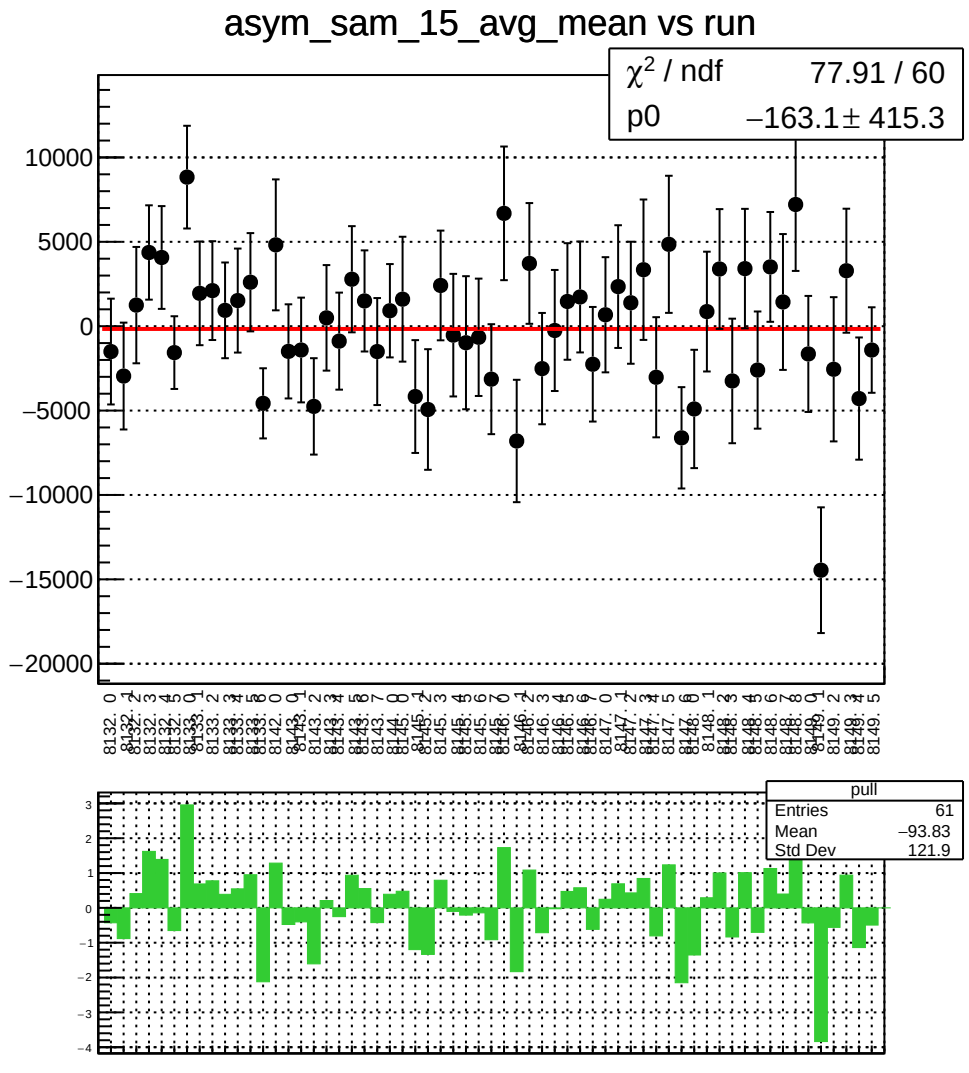

pull1D
Entries 61
Mean 0.01026
Std Dev 1.14

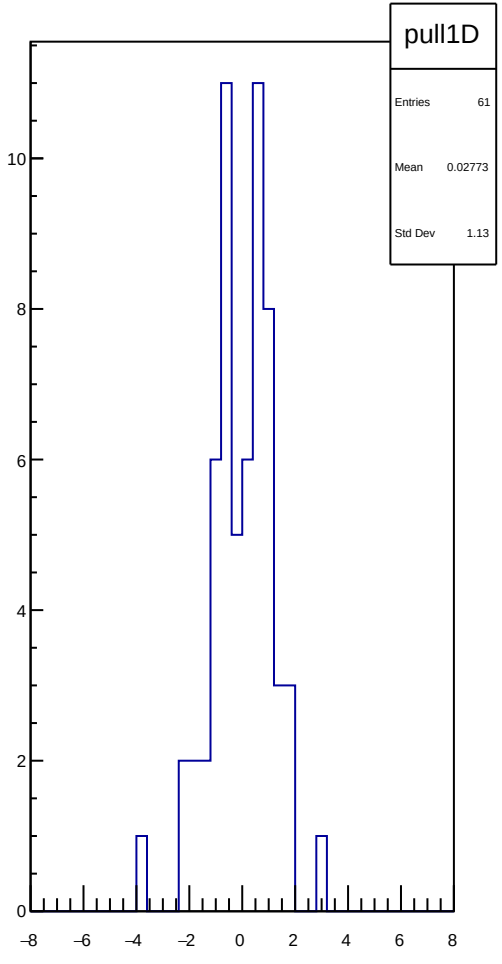

reg_asym_sam_15_avg_rms vs run
χ² / ndf 7562 / 60
p0 57.37 ± 0.05316
110
100
90
80
70
60
50

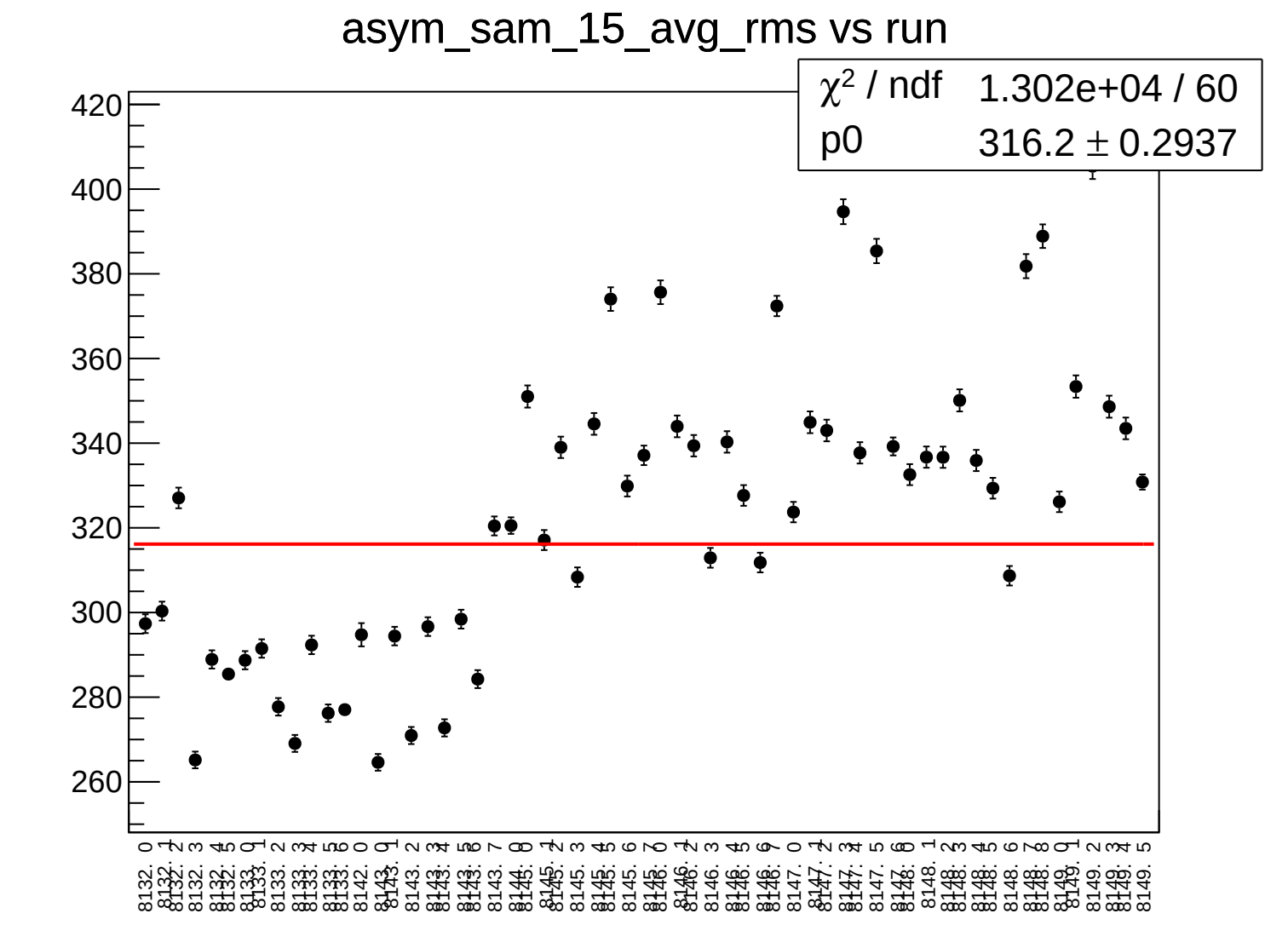

asym_sam_15_avg_correction_mean vs run
χ² / ndf 75.33 / 60
p0 95.88 ± 407.7
pull
Entries 61
Mean −115
Std Dev 141.6

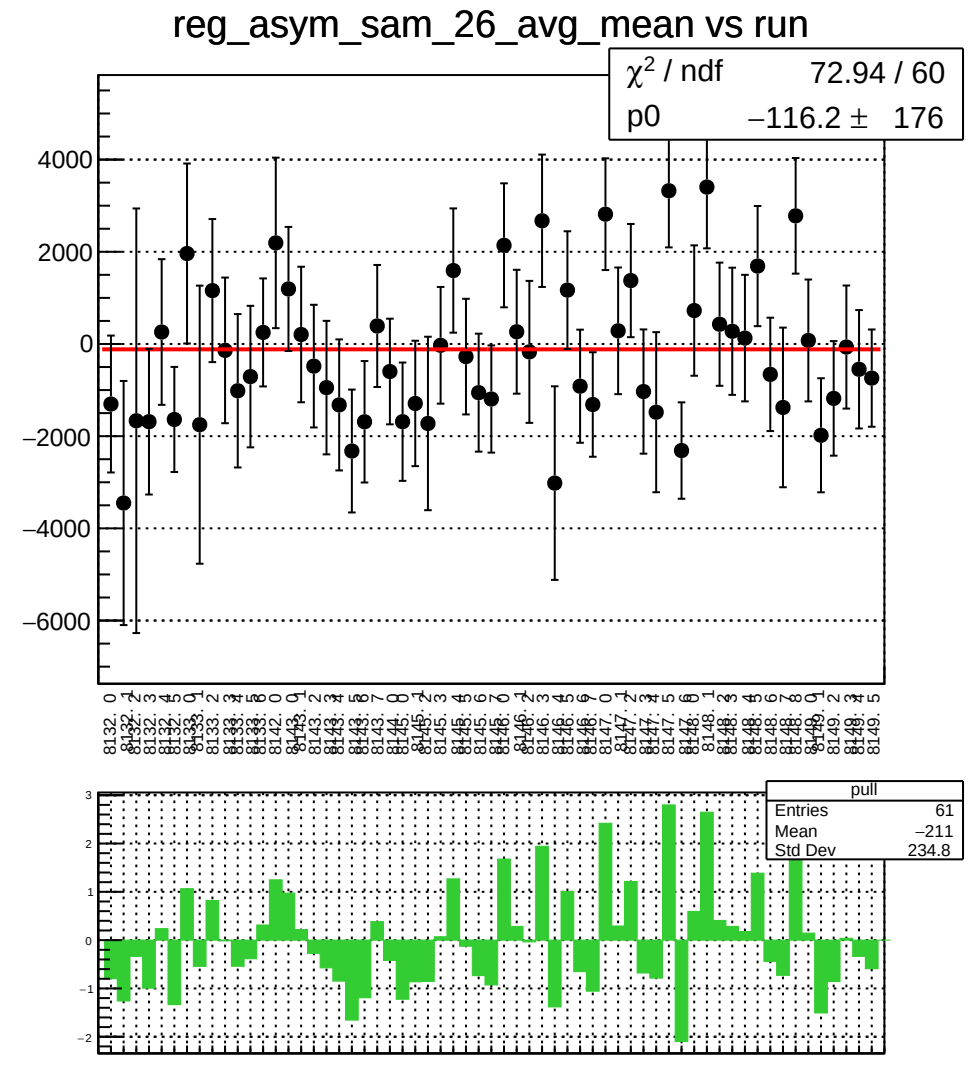

pull1D
Entries 61
Mean −0.02341
Std Dev 1.111

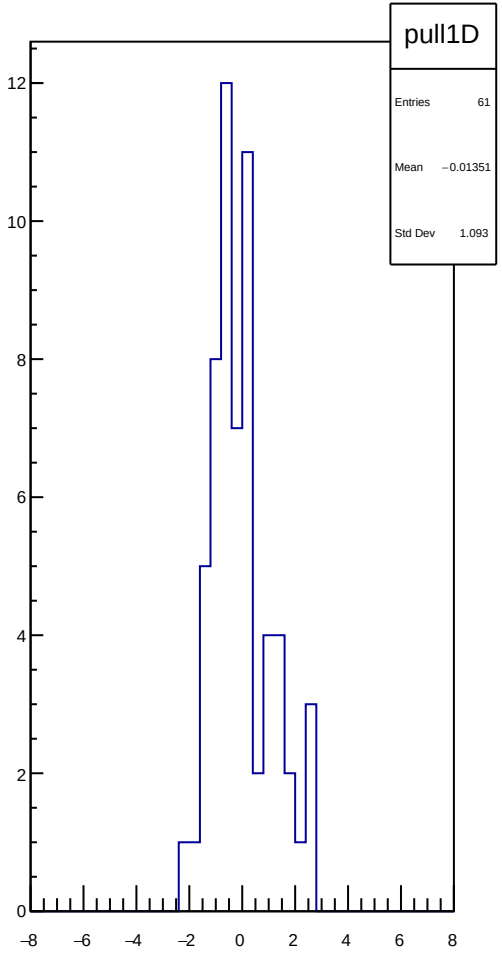

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1.407e+04 / 60
p0 310.3 ± 0.2883
400
380
360
340
320
300
280
260

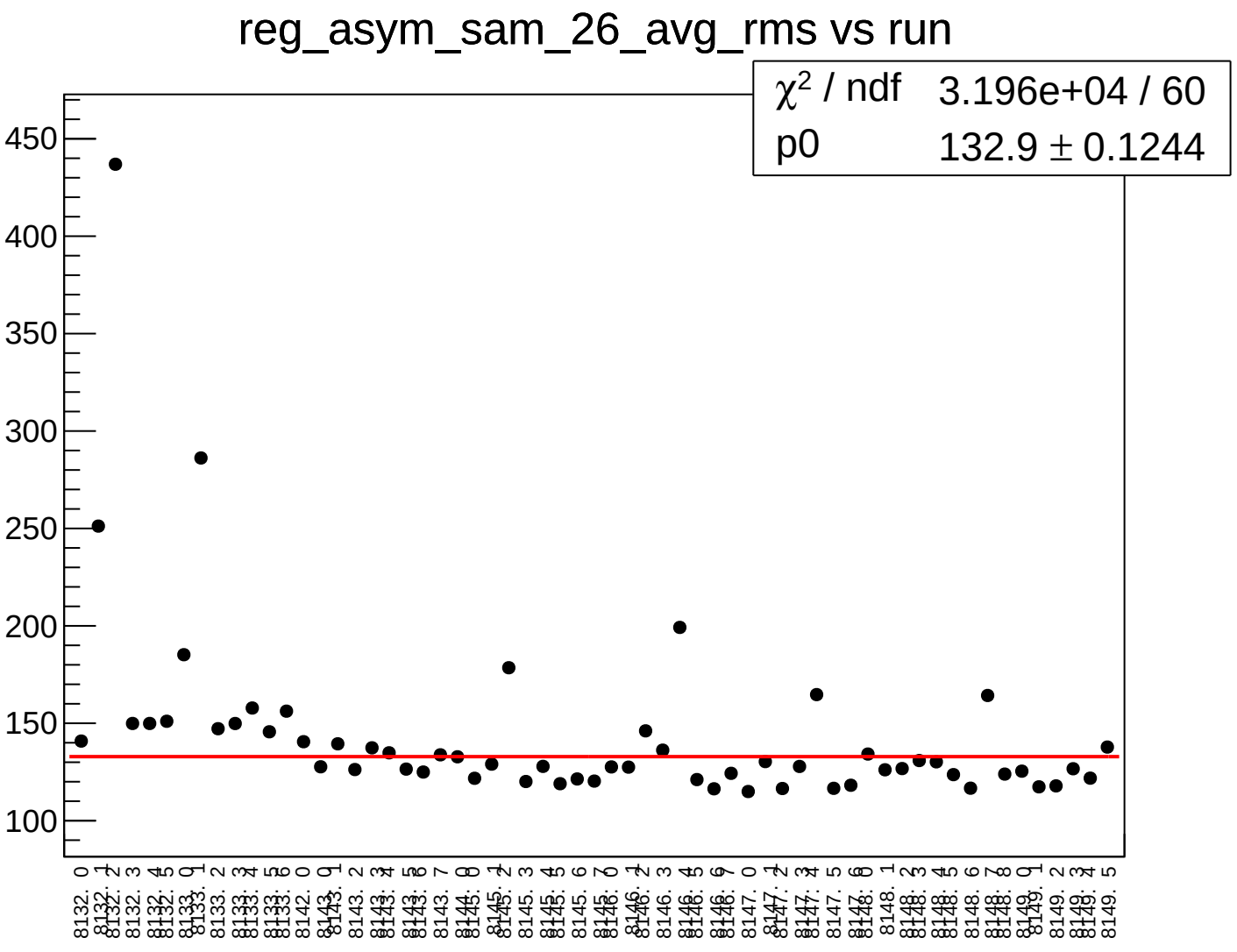

asym_sam_15_avg_mean vs run
χ² / ndf 77.91 / 60
p0 −163.1 ± 415.3
pull
Entries 61
Mean −93.83
Std Dev 121.9

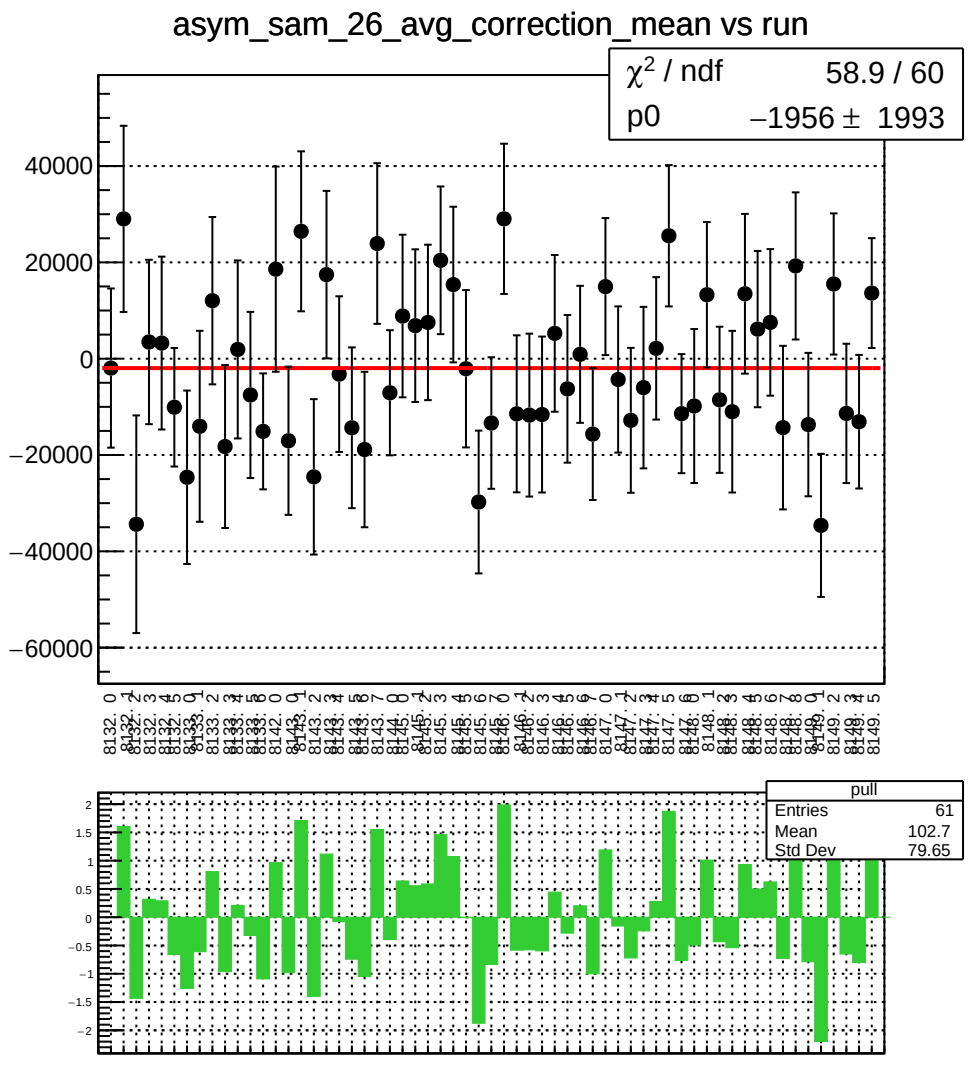

pull1D
Entries 61
Mean 0.02773
Std Dev 1.13

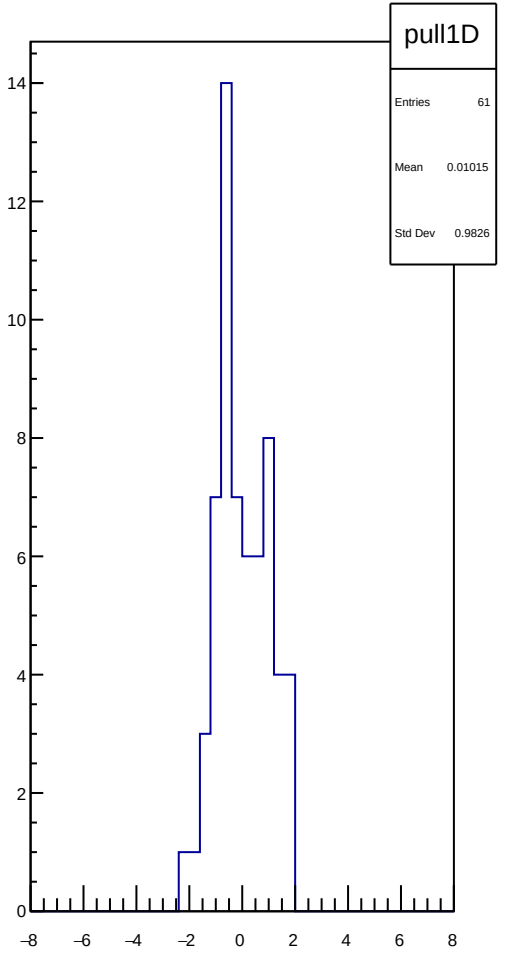

asym_sam_15_avg_rms vs run
χ^2 / ndf 1.302e+04 / 60
p0 316.2 ± 0.2937
420
400
380
360
340
320
300
280
260

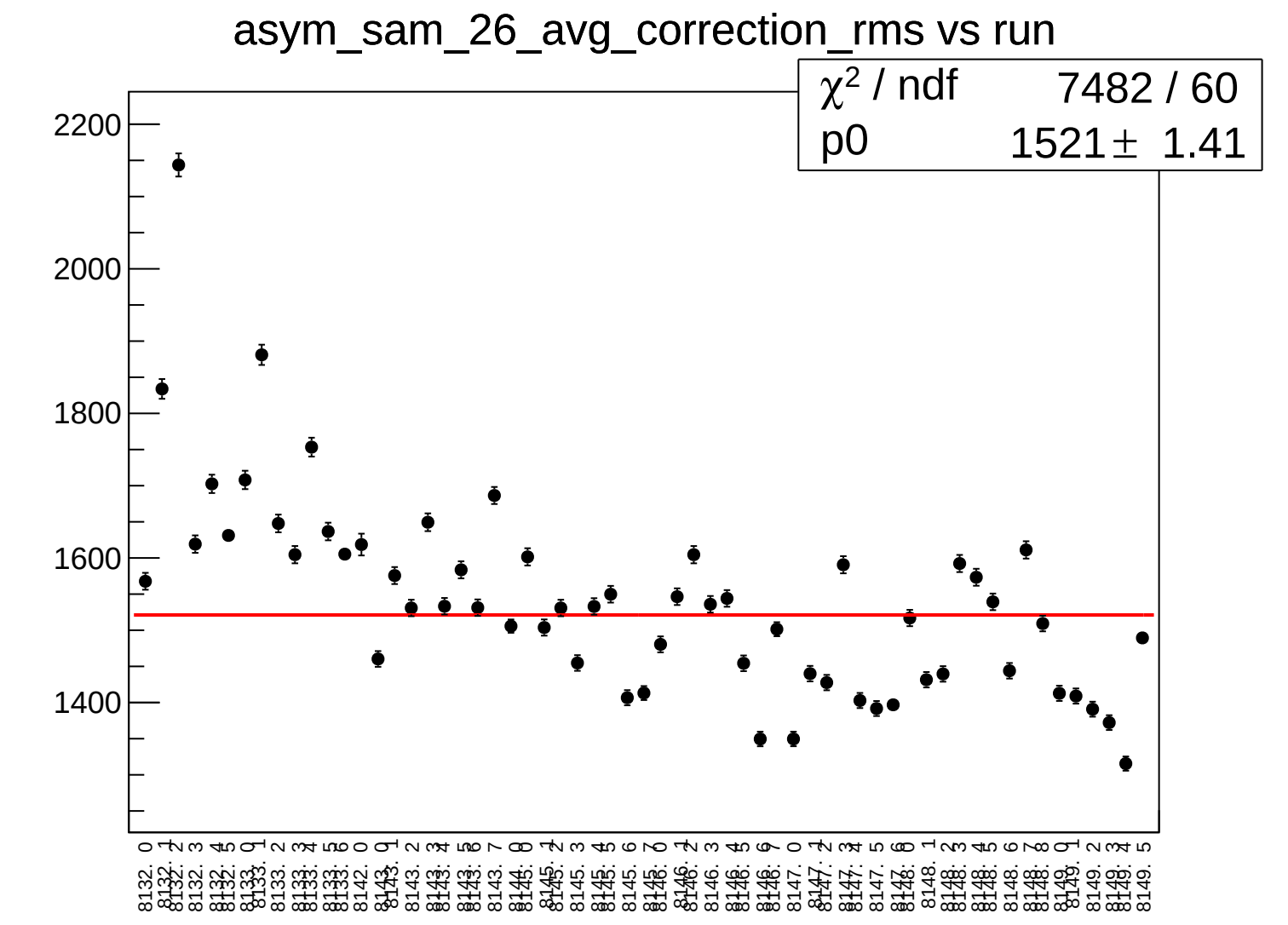

reg_asym_sam_26_avg_mean vs run
χ² / ndf 72.94 / 60
p0 −116.2 ± 176
pull
Entries 61
Mean −211
Std Dev 234.8

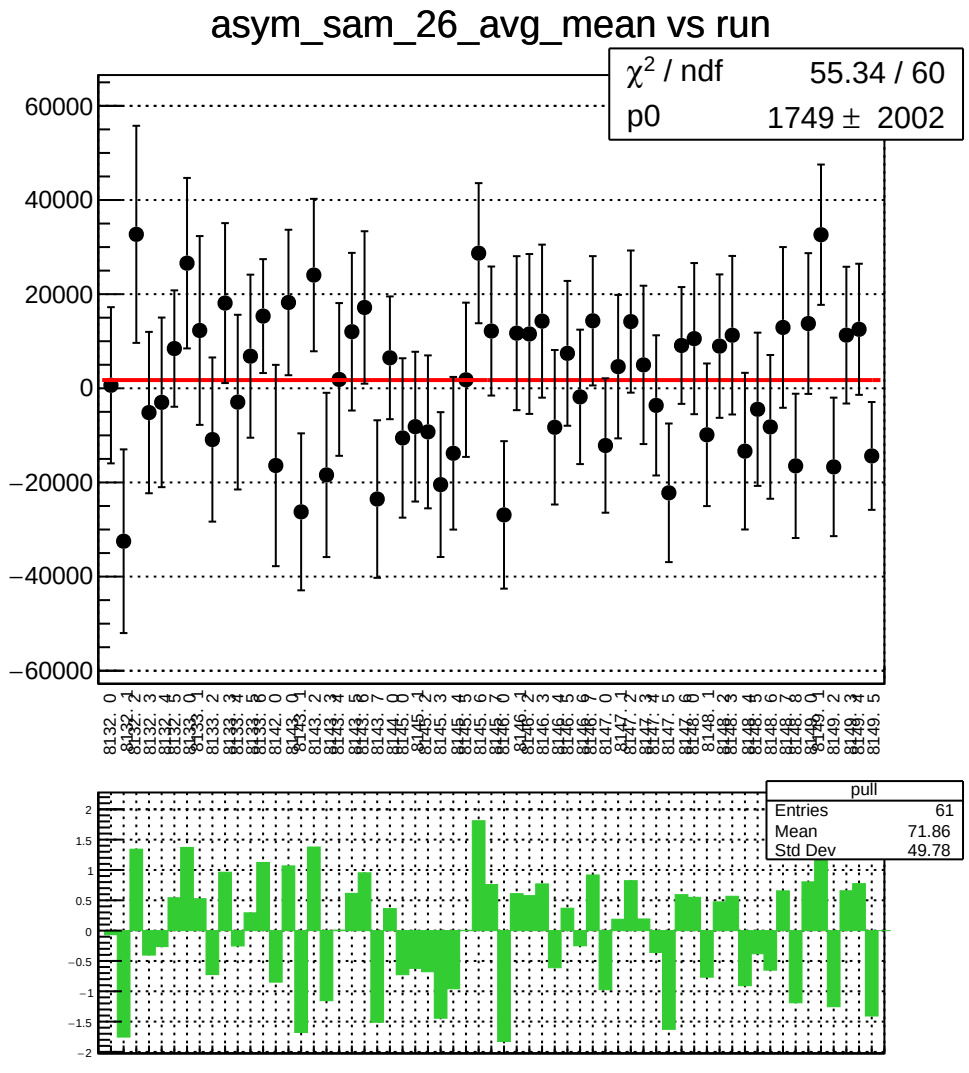

pull1D
Entries 61
Mean −0.01351
Std Dev 1.093

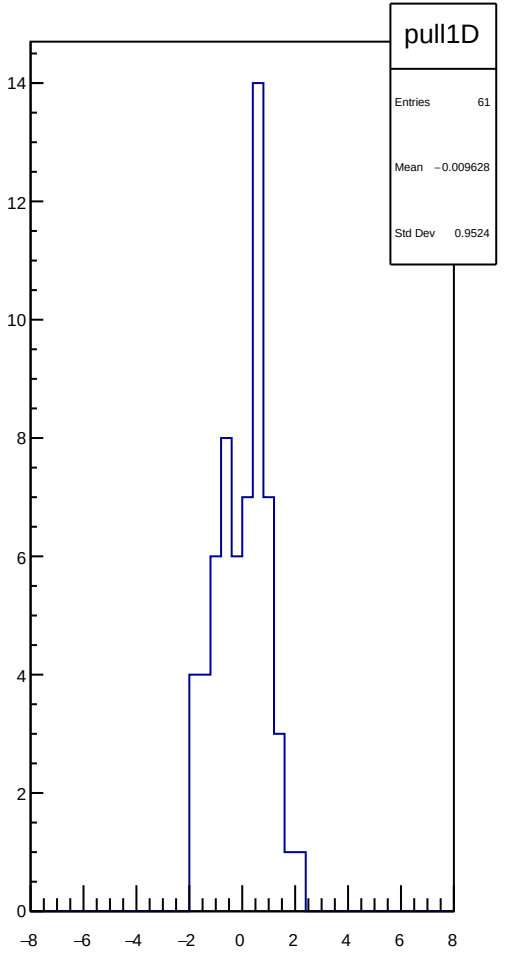

reg_asym_sam_26_avg_rms vs run
χ² / ndf 3.196e+04 / 60
p0 132.9 ± 0.1244
450
400
350
300
250
200
150
100

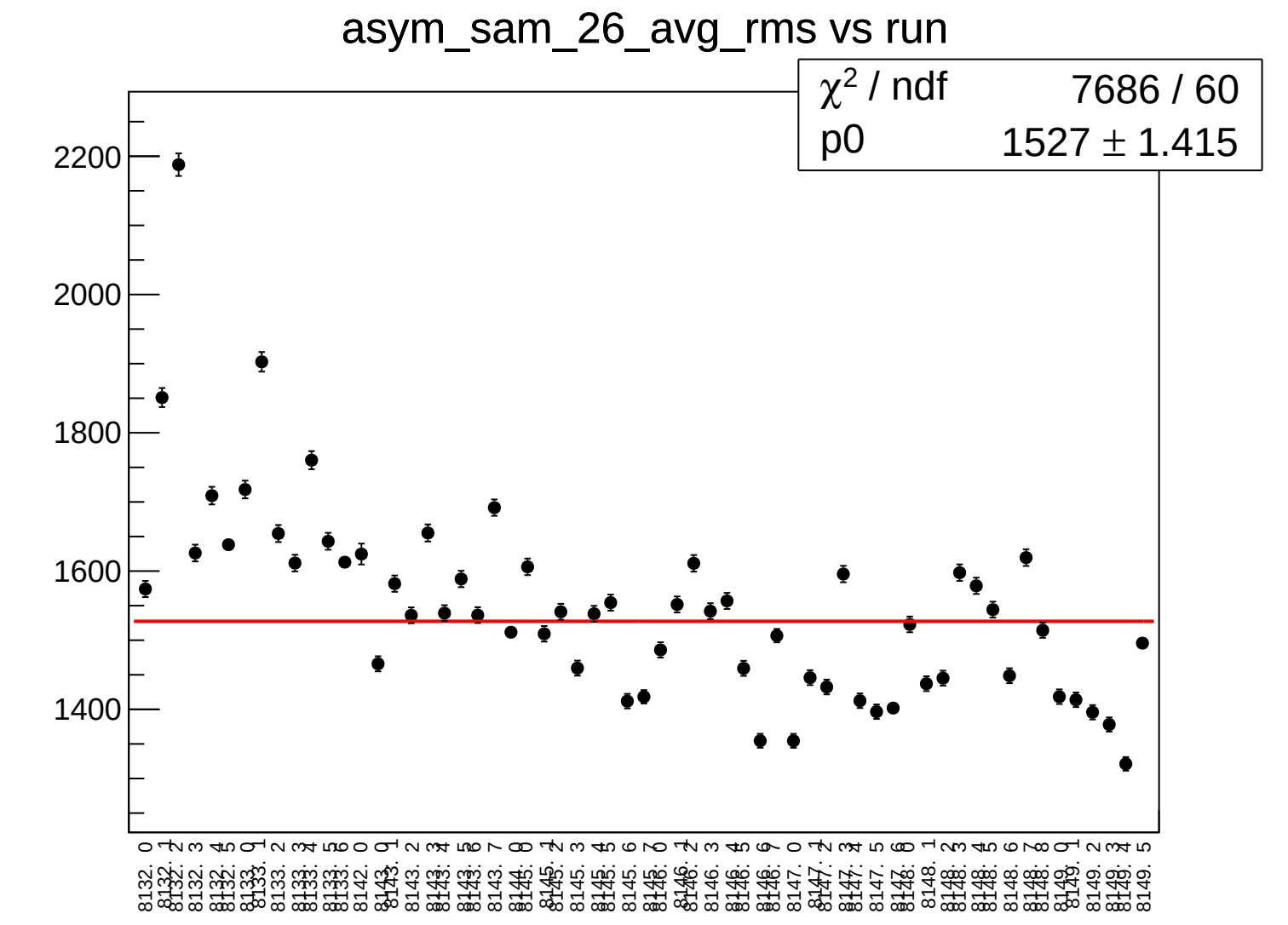

asym_sam_26_avg_correction_mean vs run
χ² / ndf 58.9 / 60
p0 −1956 ± 1993
40000
20000
0
−20000
−40000
−60000
pull
Entries 61
Mean 102.7
Std Dev 79.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

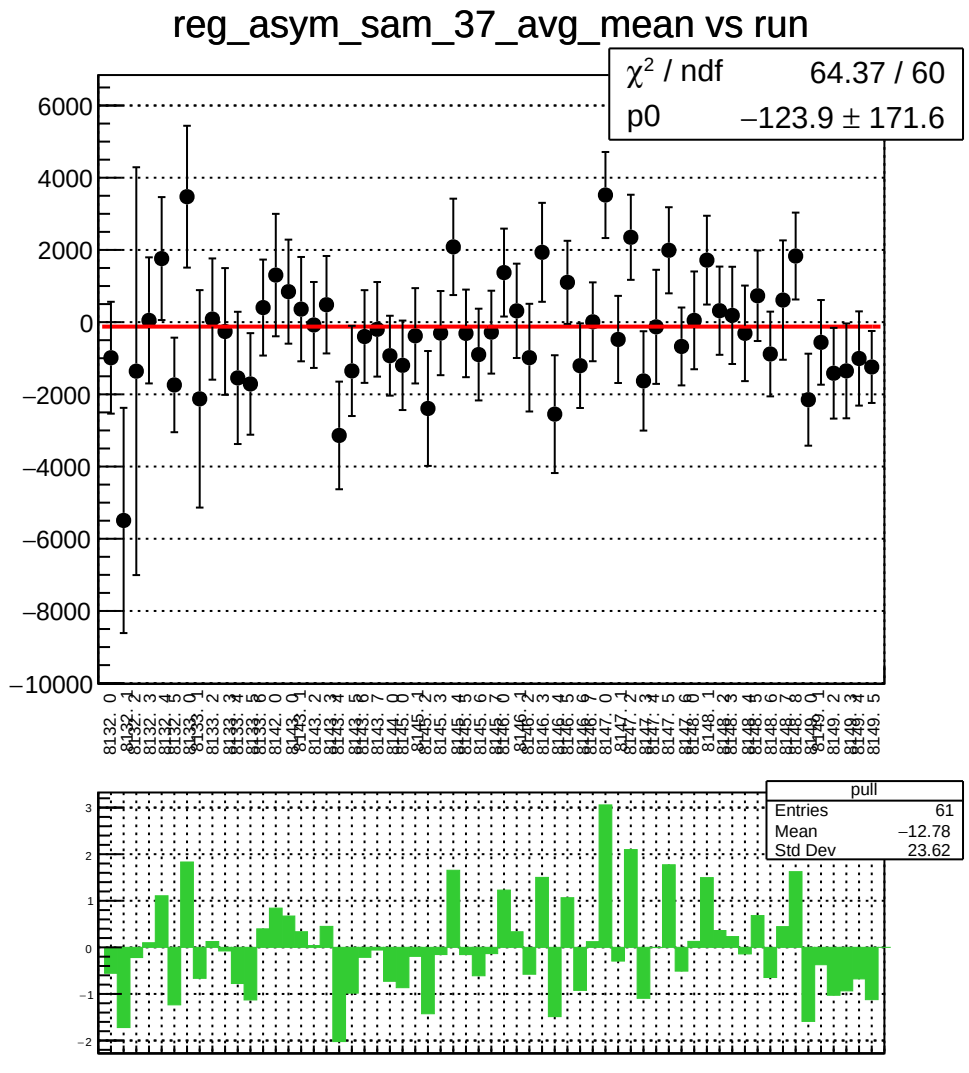

pull1D
Entries 61
Mean 0.01015
Std Dev 0.9826
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

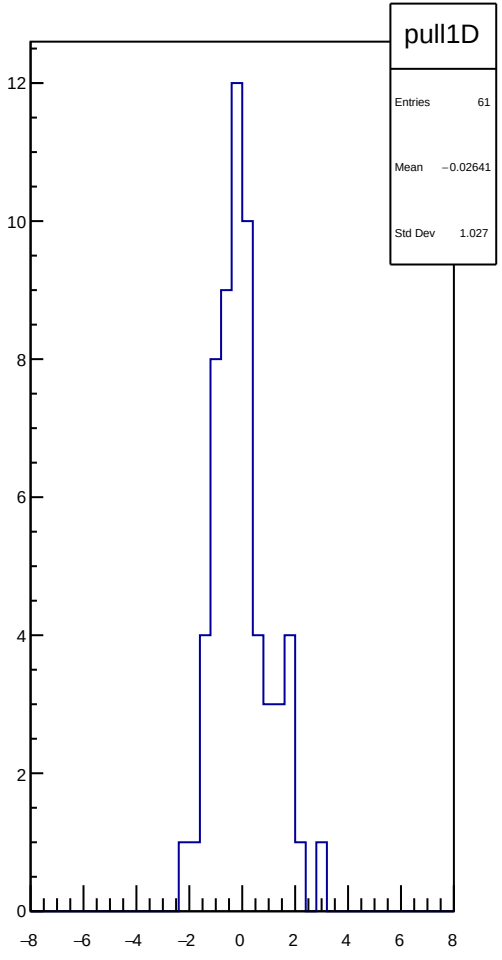

asym_sam_26_avg_correction_rms vs run
χ² / ndf 7482 / 60
p0 1521 ± 1.41
2200
2000
1800
1600
1400

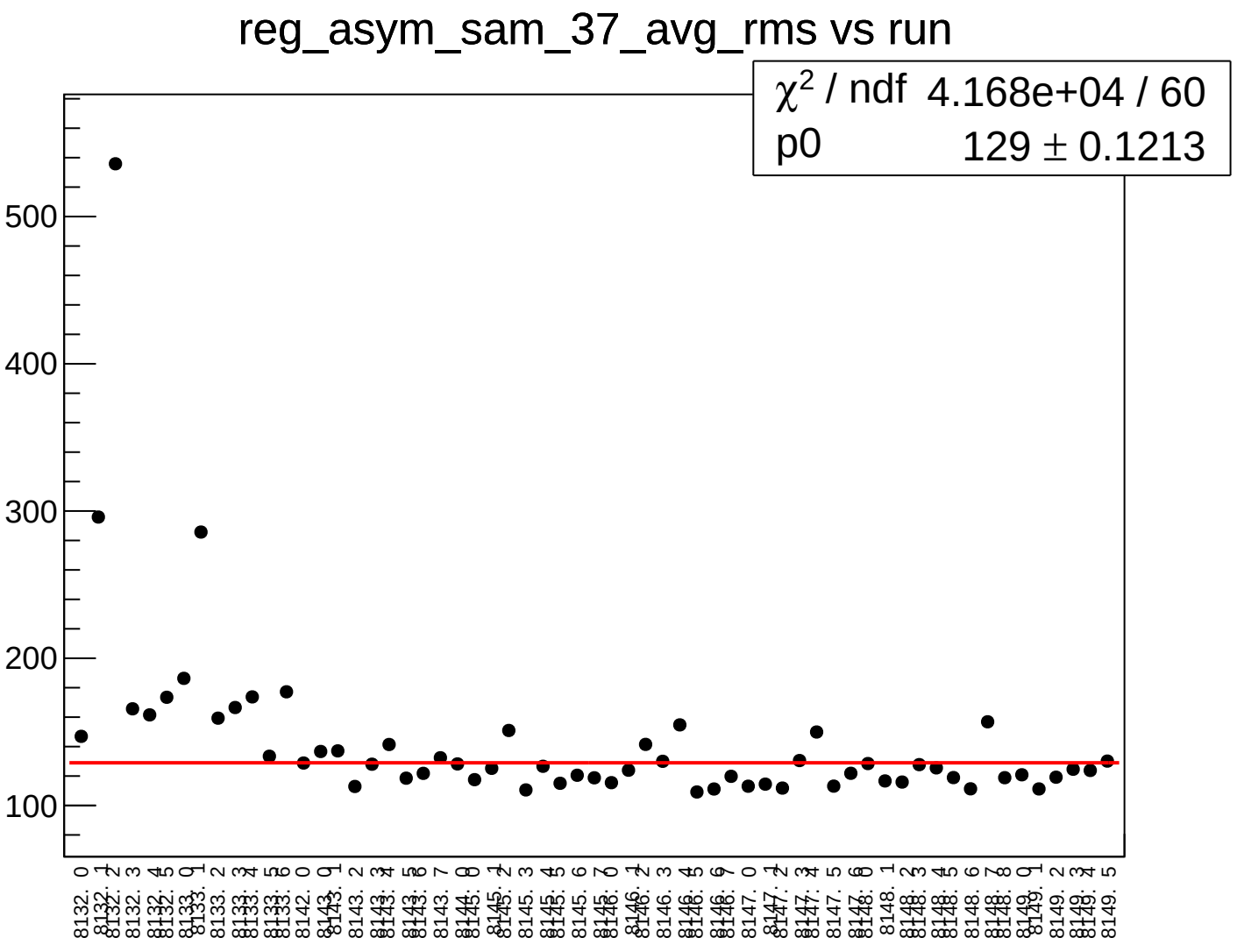

asym_sam_26_avg_mean vs run
χ² / ndf 55.34 / 60
p0 1749 ± 2002
pull
Entries 61
Mean 71.86
Std Dev 49.78

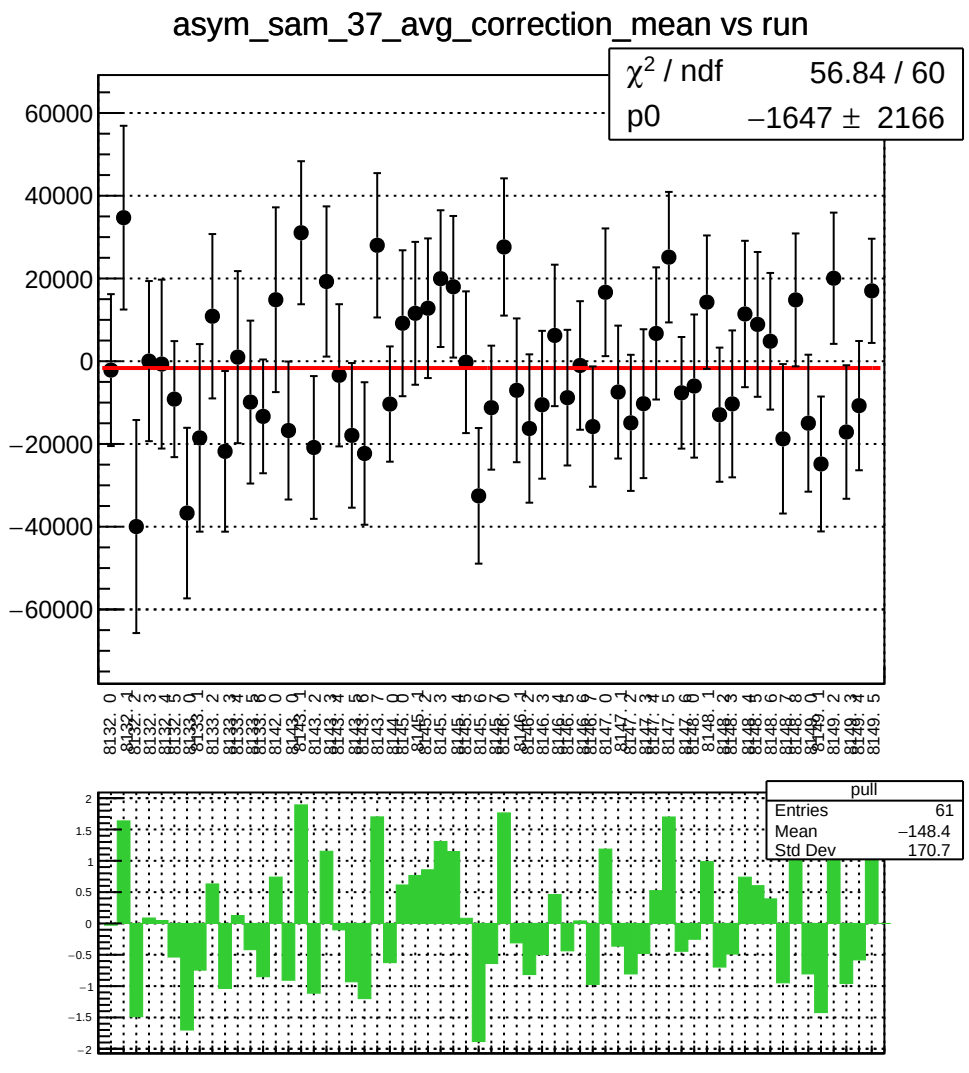

pull1D
Entries 61
Mean −0.009628
Std Dev 0.9524

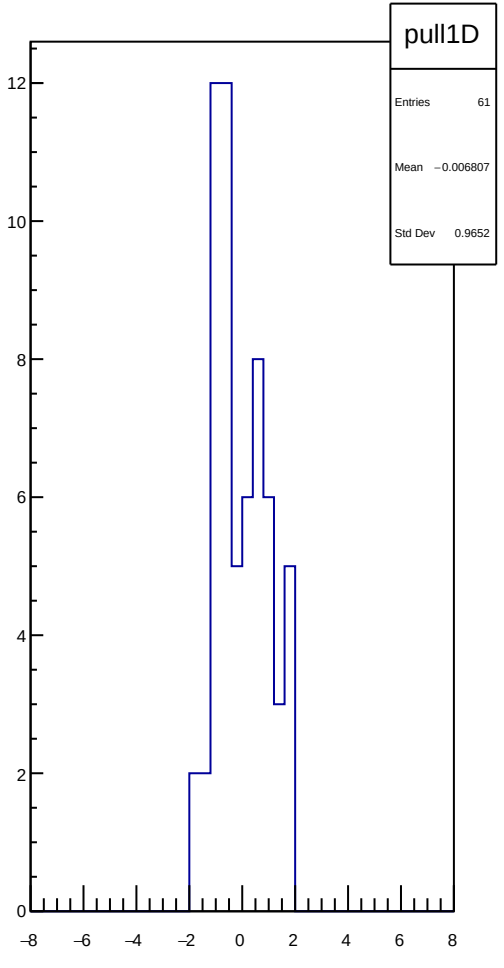

asym_sam_26_avg_rms vs run
χ² / ndf 7686 / 60
p0 1527 ± 1.415
2200
2000
1800
1600
1400

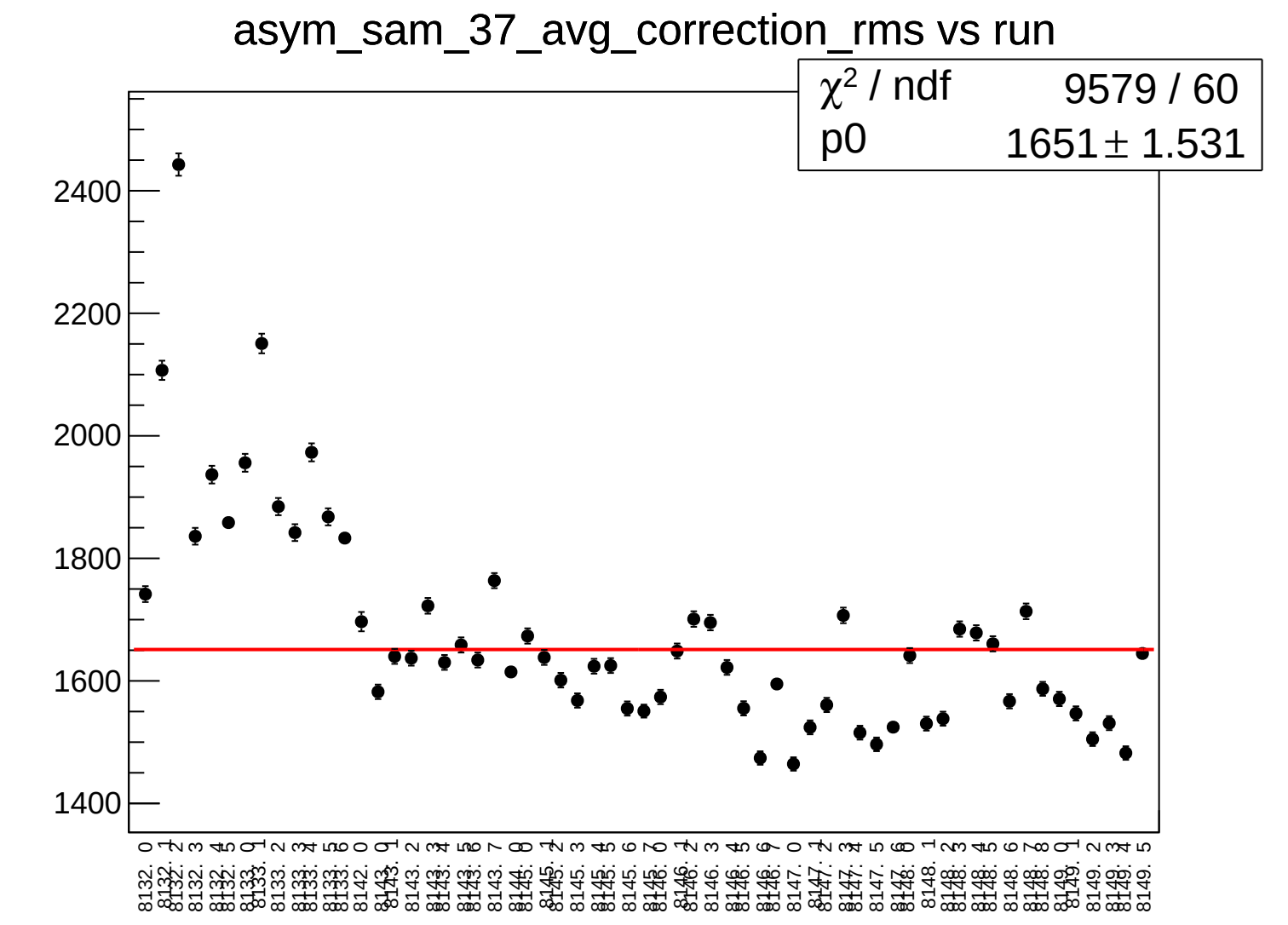

reg_asym_sam_37_avg_mean vs run
χ² / ndf 64.37 / 60
p0 −123.9 ± 171.6
pull
Entries 61
Mean −12.78
Std Dev 23.62

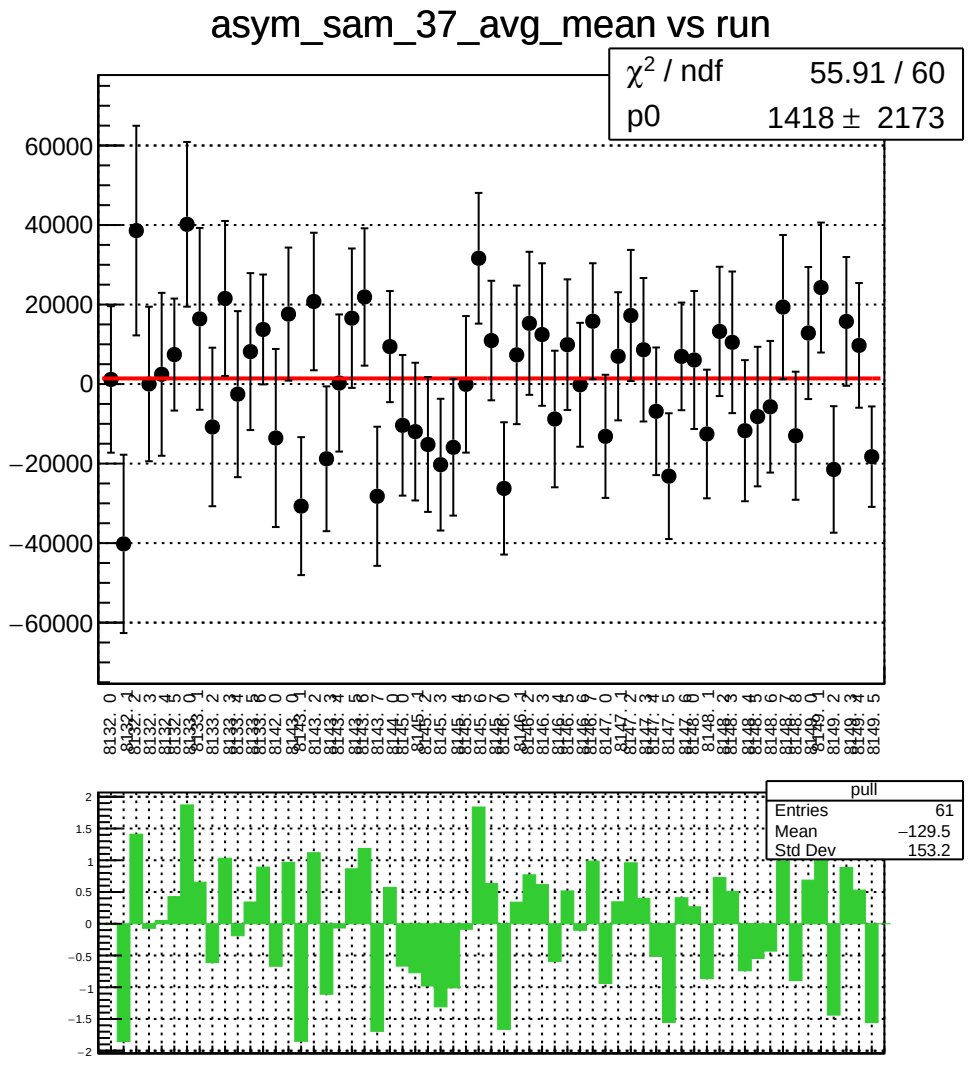

pull1D
Entries 61
Mean −0.02641
Std Dev 1.027

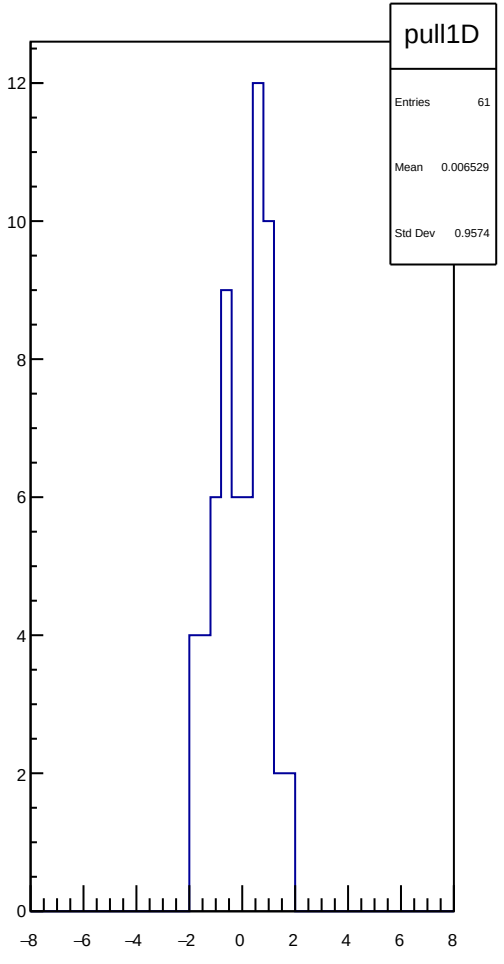

reg_asym_sam_37_avg_rms vs run
χ² / ndf 4.168e+04 / 60
p0 129 ± 0.1213
500
400
300
200
100

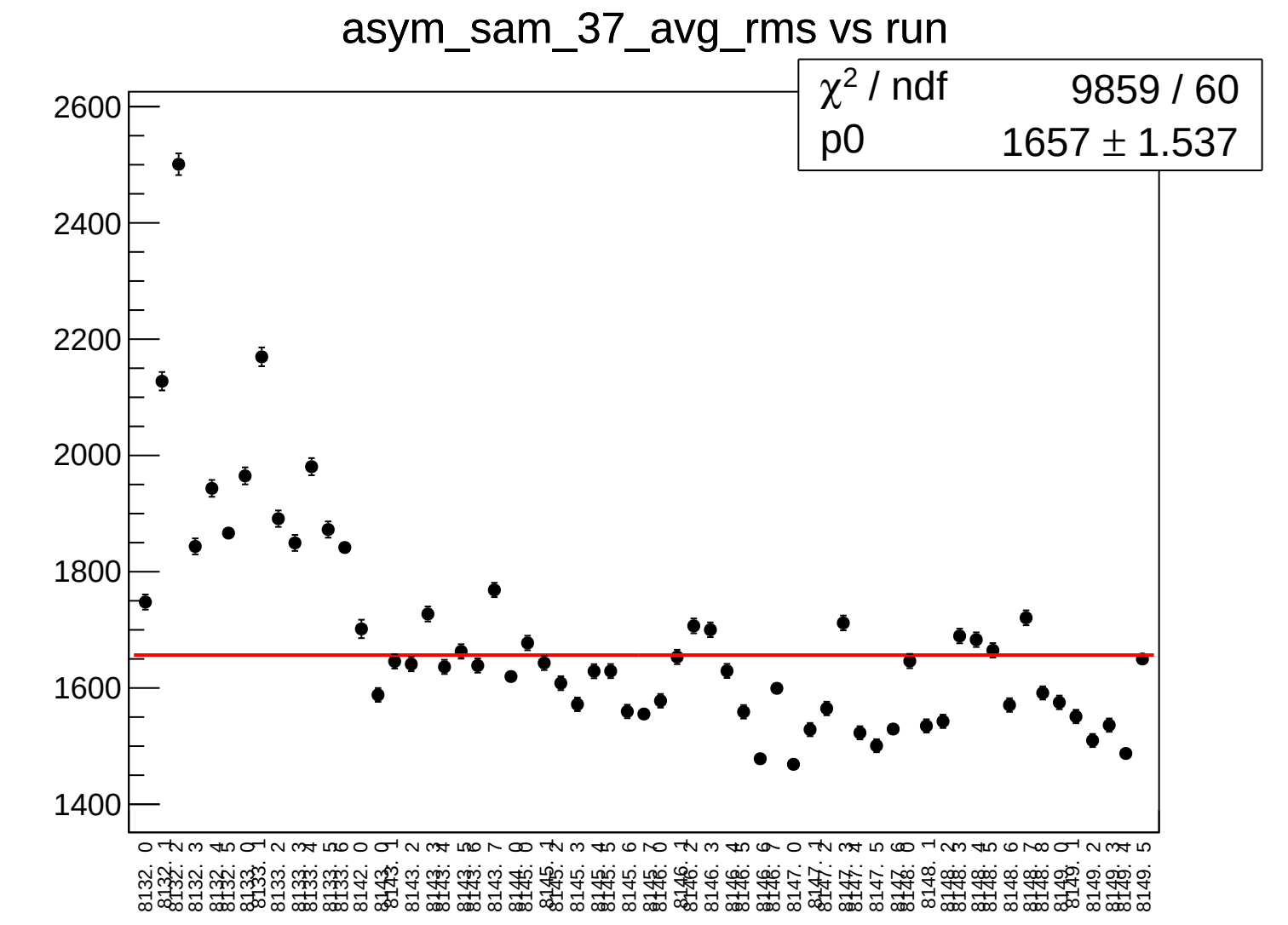

asym_sam_37_avg_correction_mean vs run
χ² / ndf 56.84 / 60
p0 −1647 ± 2166
pull
Entries 61
Mean −148.4
Std Dev 170.7

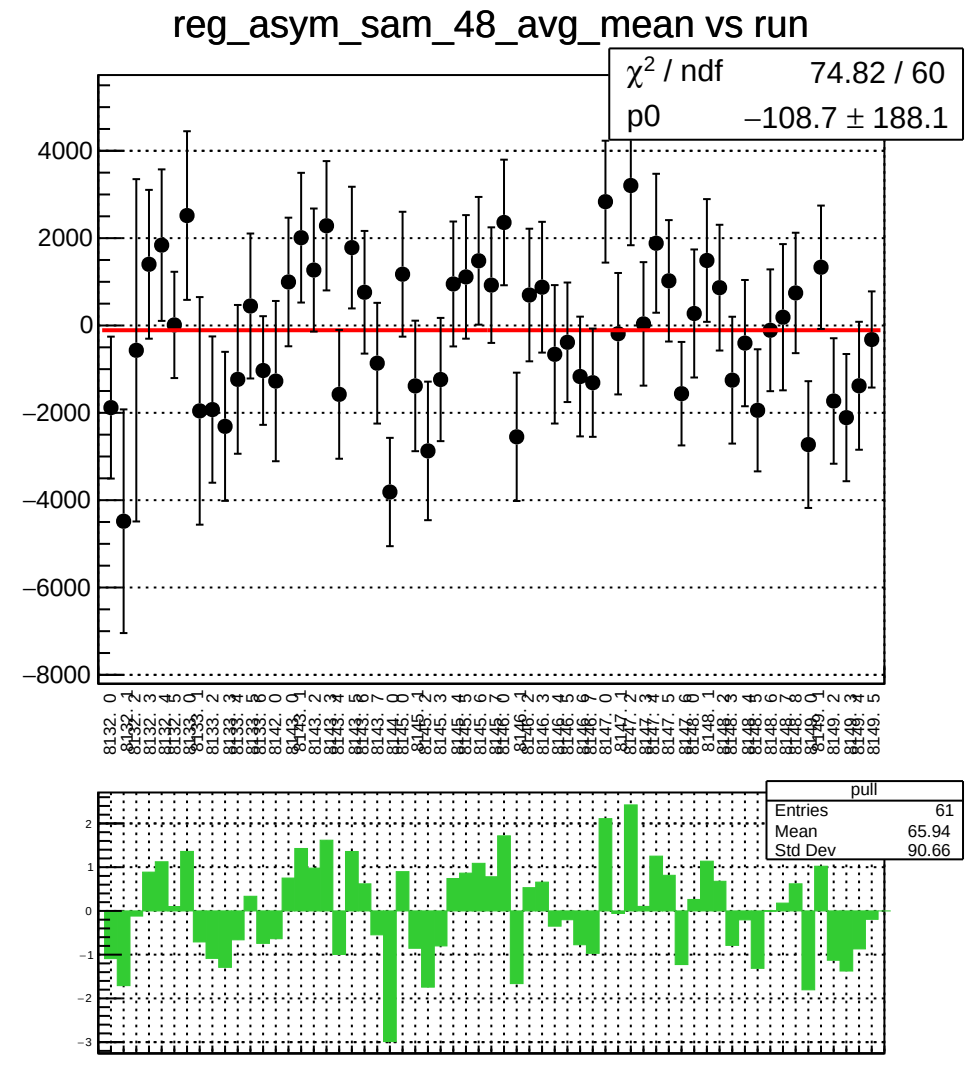

pull1D
Entries 61
Mean −0.006807
Std Dev 0.9652

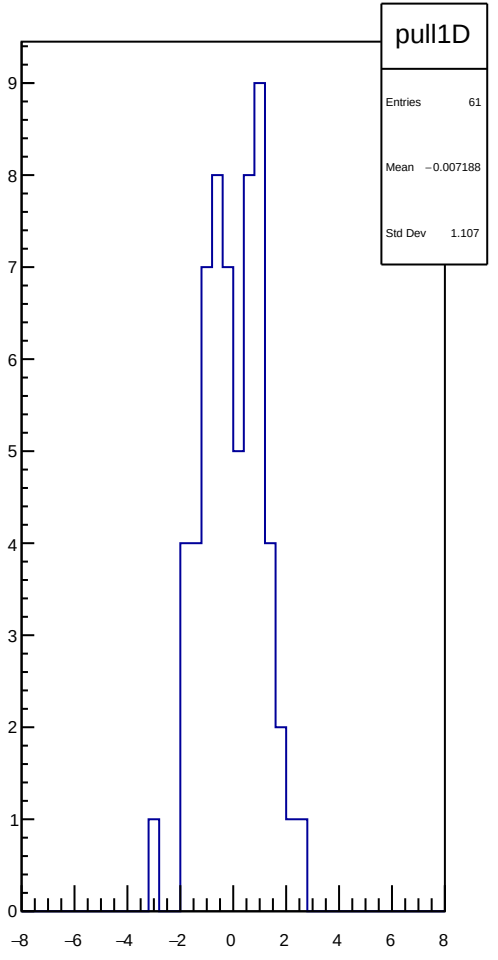

asym_sam_37_avg_correction_rms vs run
χ² / ndf 9579 / 60
p0 1651 ± 1.531
2400
2200
2000
1800
1600
1400

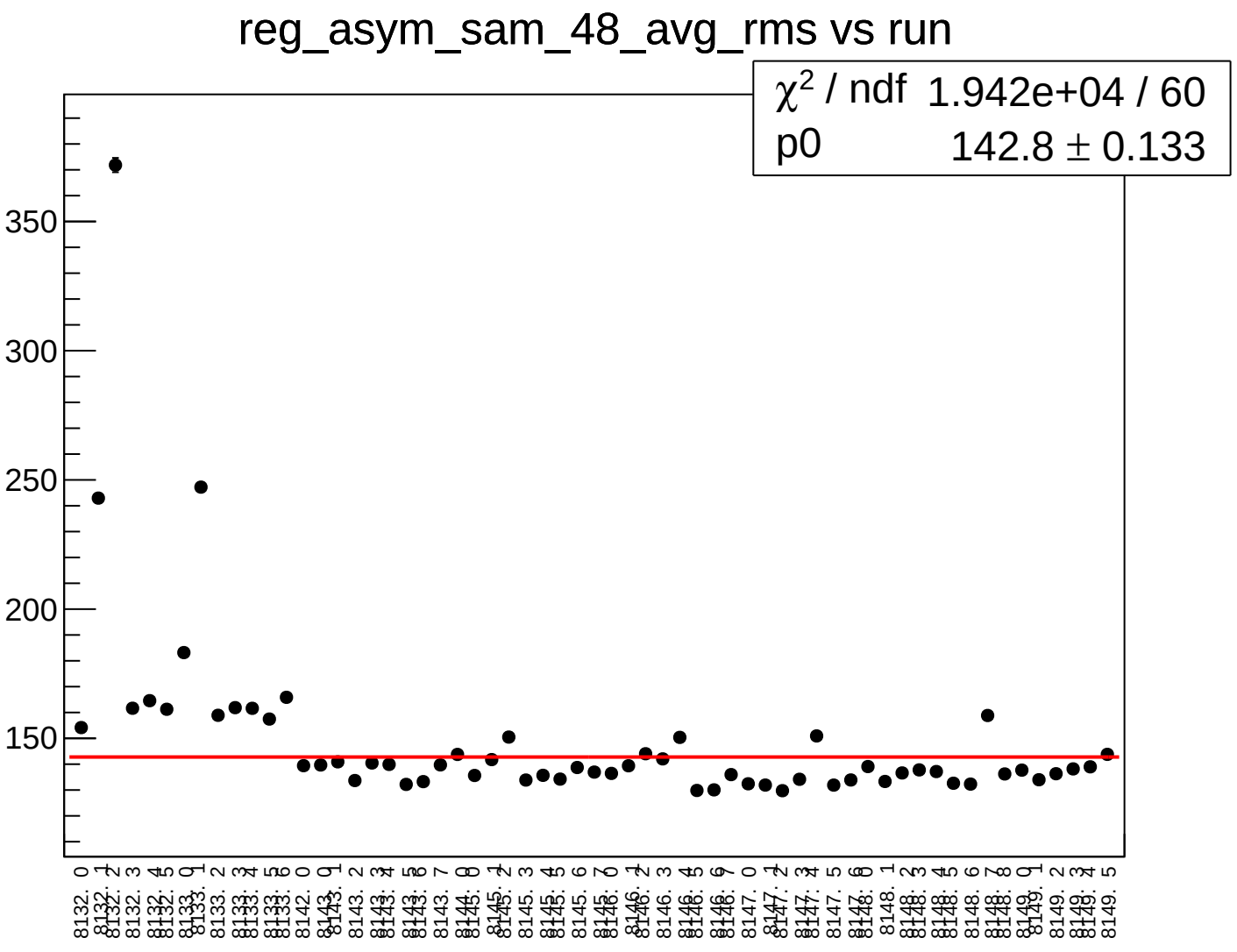

asym_sam_37_avg_mean vs run
χ² / ndf 55.91 / 60
p0 1418 ± 2173
pull
Entries 61
Mean −129.5
Std Dev 153.2

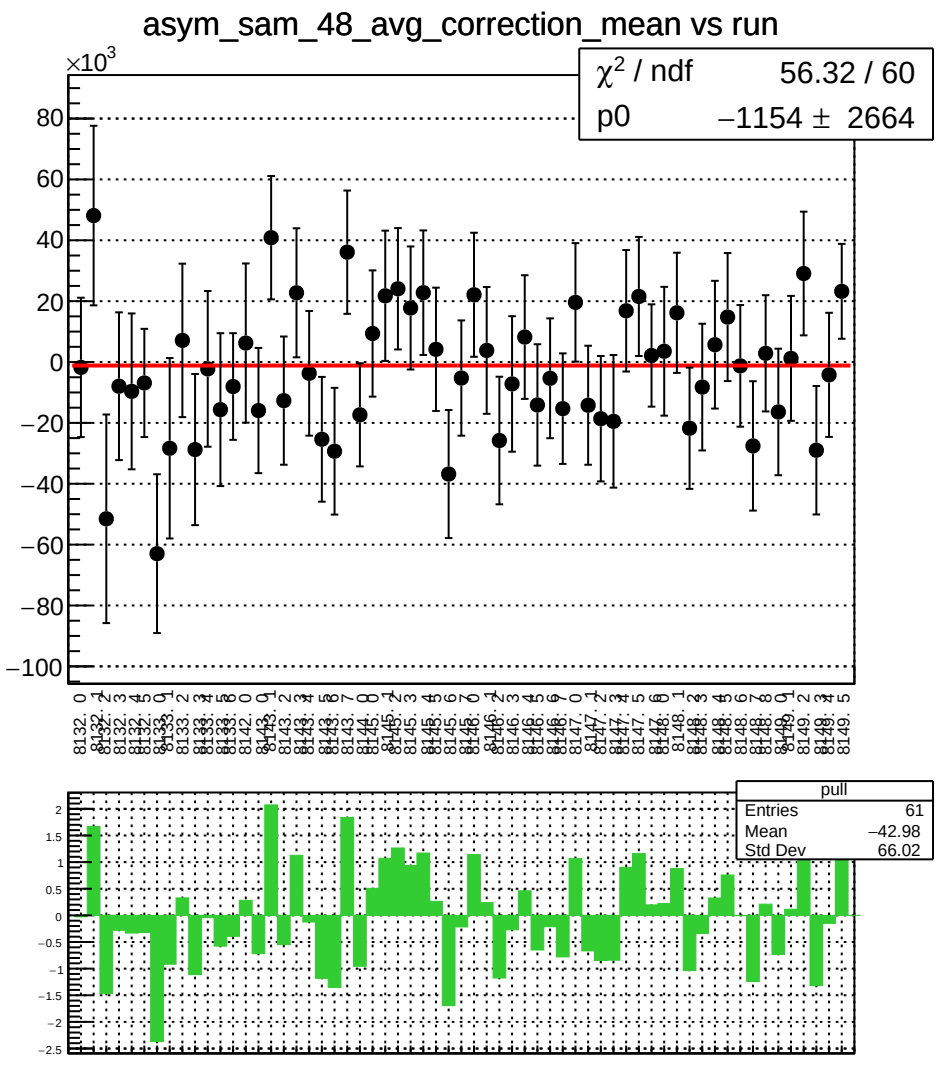

pull1D
Entries 61
Mean 0.006529
Std Dev 0.9574

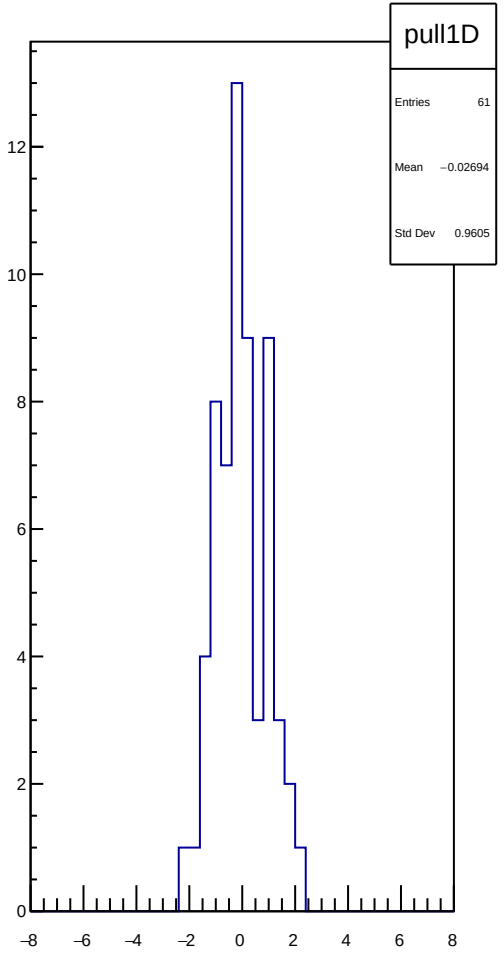

asym_sam_37_avg_rms vs run
χ^2 / ndf 9859 / 60
p0 1657 ± 1.537
2600
2400
2200
2000
1800
1600
1400

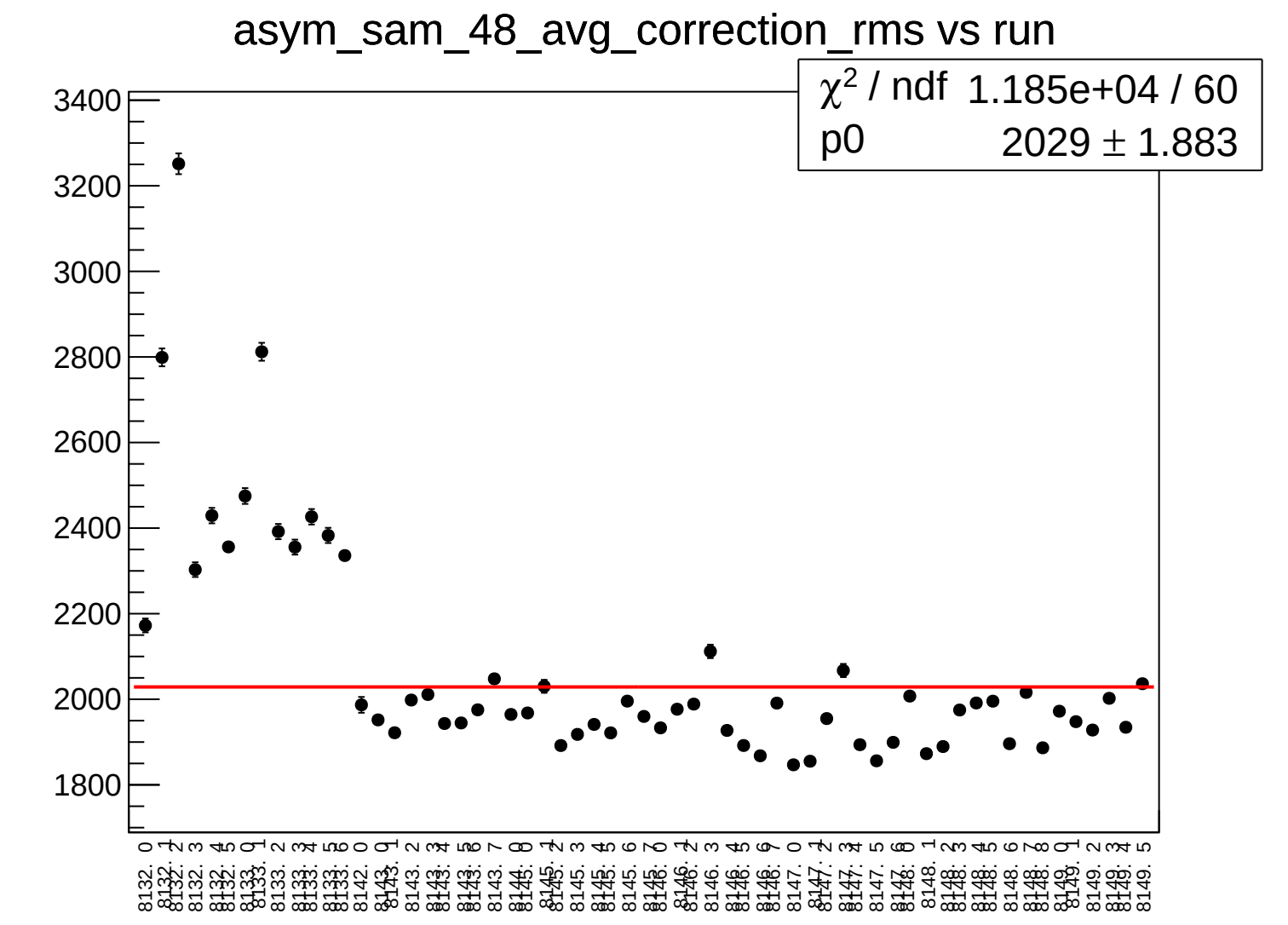

reg_asym_sam_48_avg_mean vs run
χ² / ndf 74.82 / 60
p0 −108.7 ± 188.1
pull
Entries 61
Mean 65.94
Std Dev 90.66

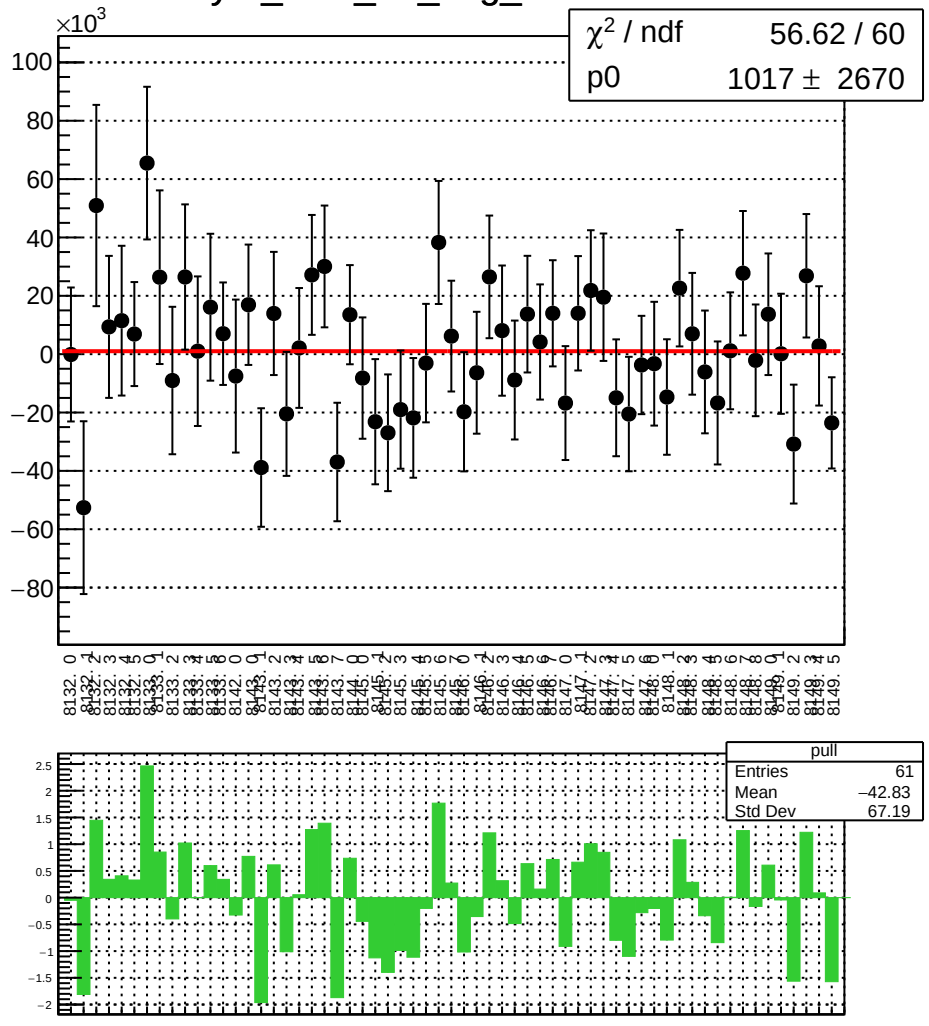

pull1D
Entries 61
Mean −0.007188
Std Dev 1.107

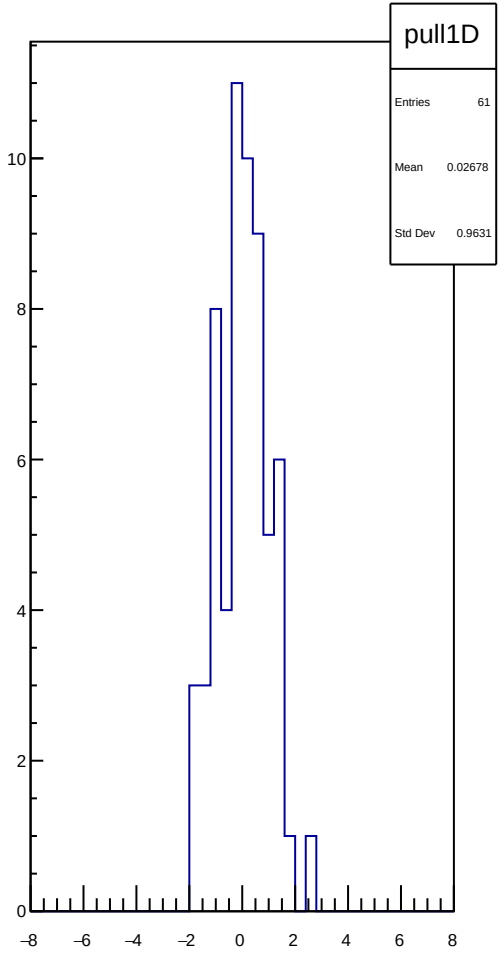

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.942e+04 / 60
p0 142.8 ± 0.133
350
300
250
200
150

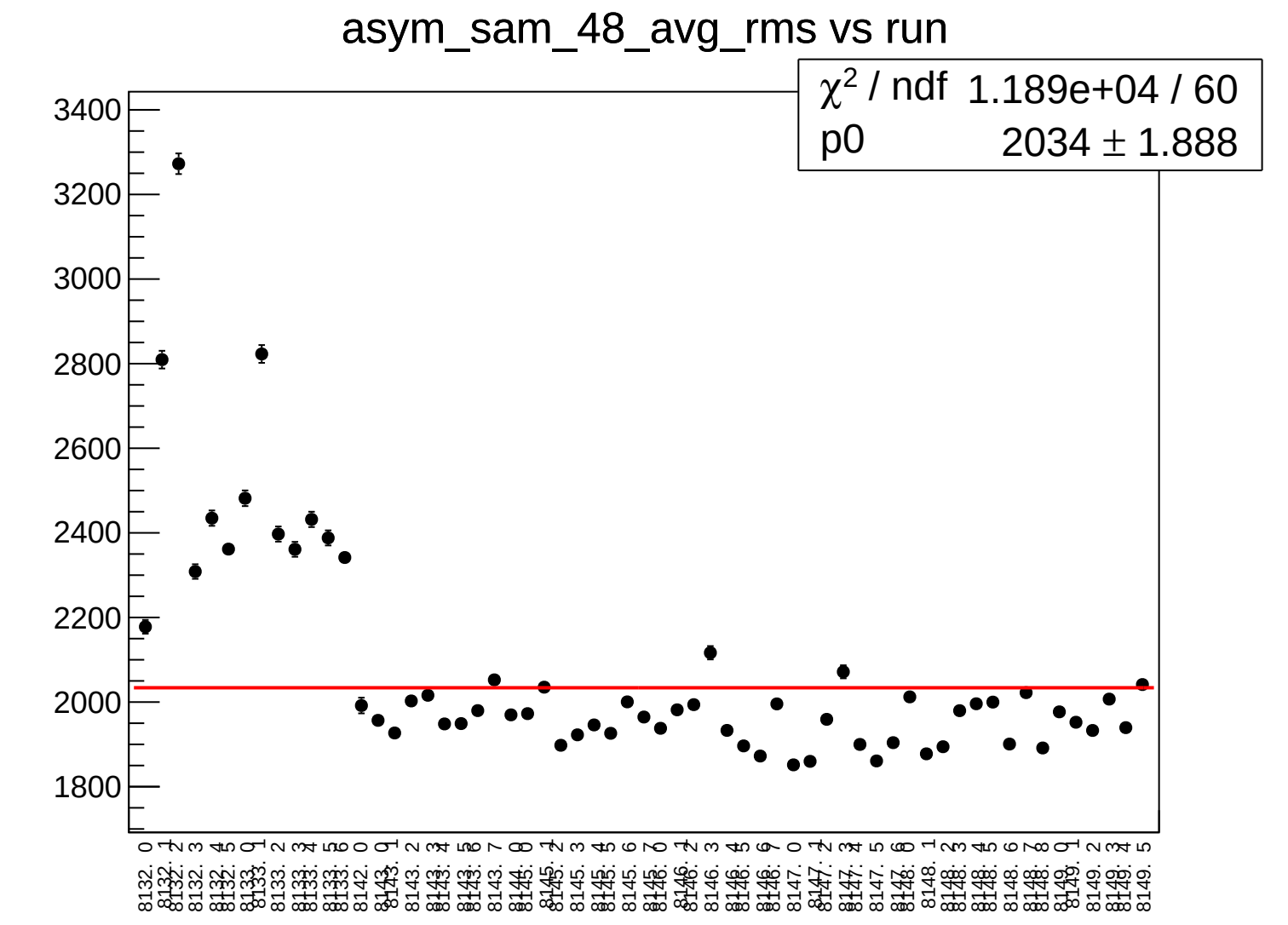

asym_sam_48_avg_correction_mean vs run
χ² / ndf 56.32 / 60
p0 −1154 ± 2664
pull
Entries 61
Mean −42.98
Std Dev 66.02

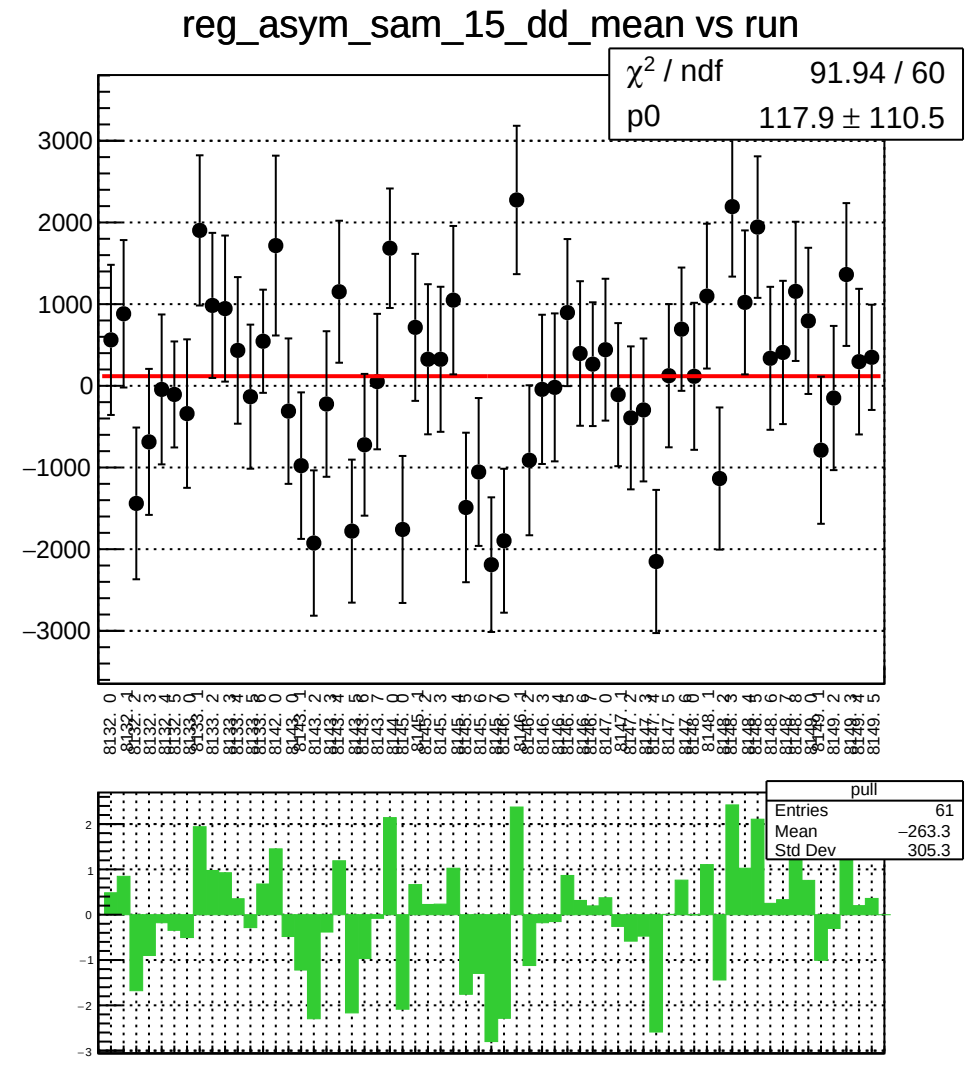

pull1D
Entries 61
Mean −0.02694
Std Dev 0.9605

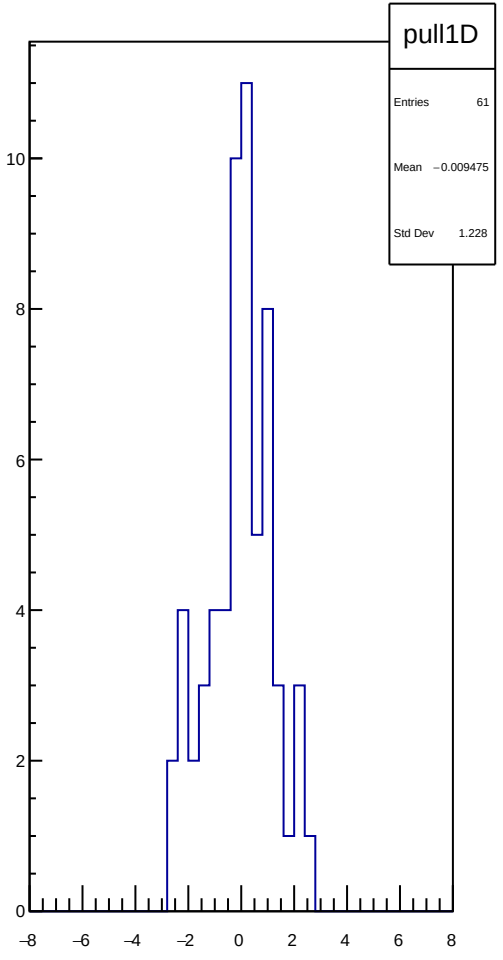

asym_sam_48_avg_correction_rms vs run
χ² / ndf 1.185e+04 / 60
p0 2029 ± 1.883
3400
3200
3000
2800
2600
2400
2200
2000
1800

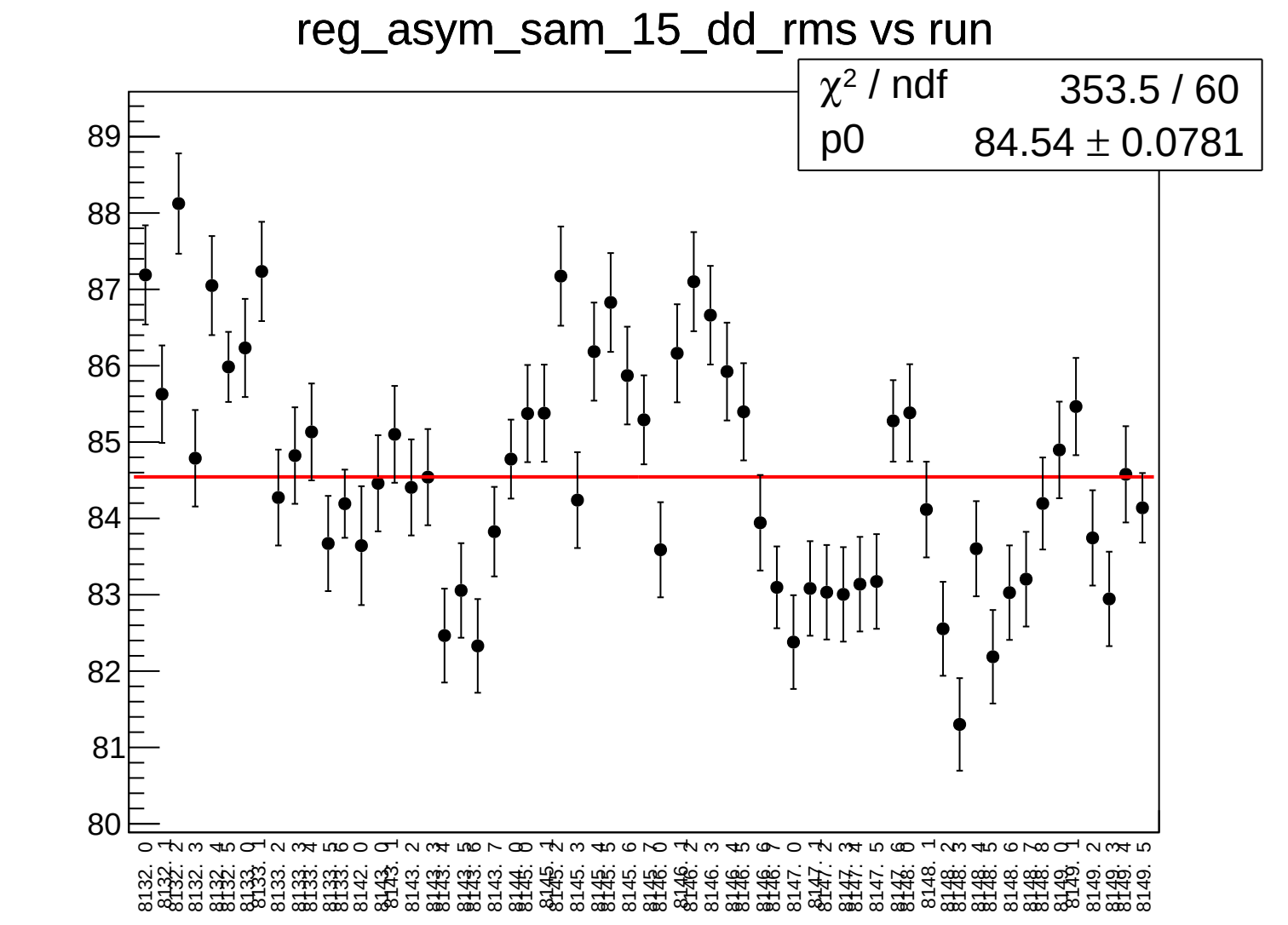

asym_sam_48_avg_mean vs run
χ² / ndf 56.62 / 60
p0 1017 ± 2670
pull
Entries 61
Mean −42.83
Std Dev 67.19

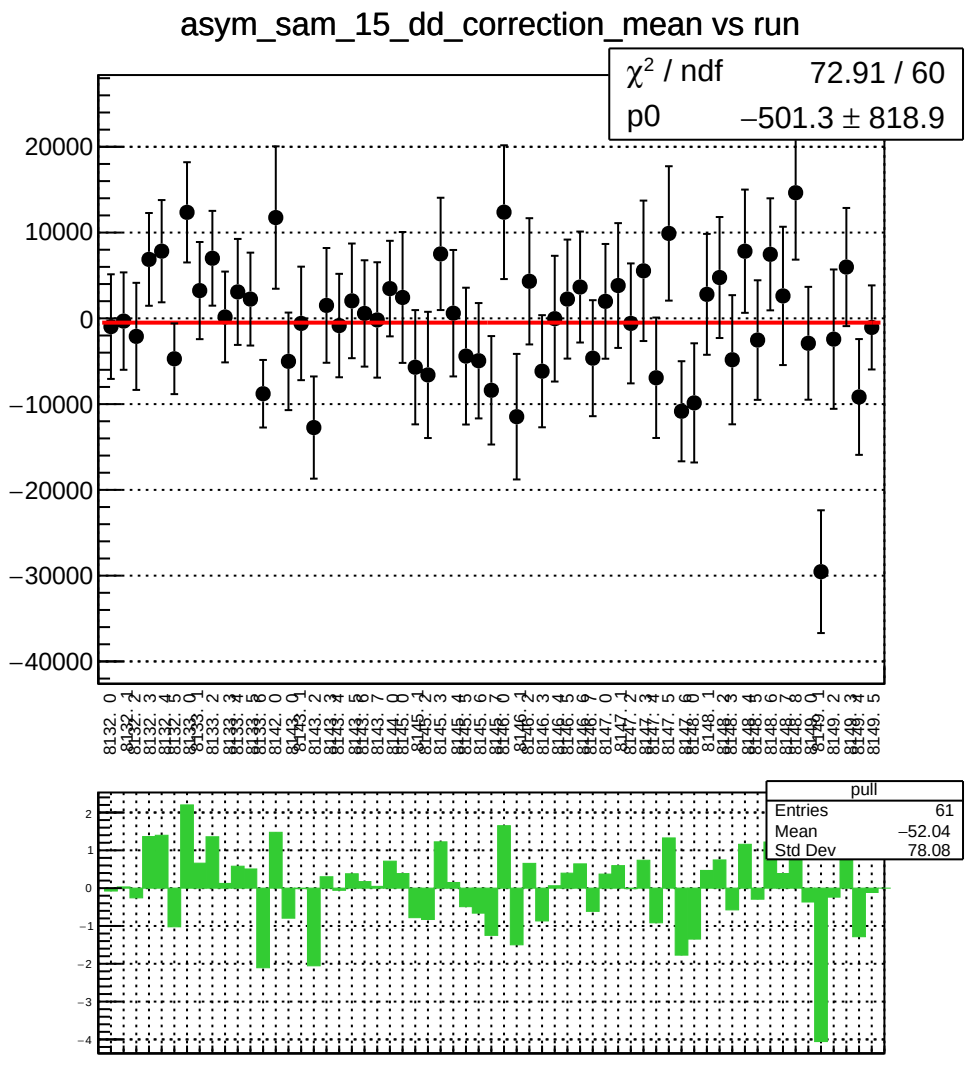

pull1D
Entries 61
Mean 0.02678
Std Dev 0.9631

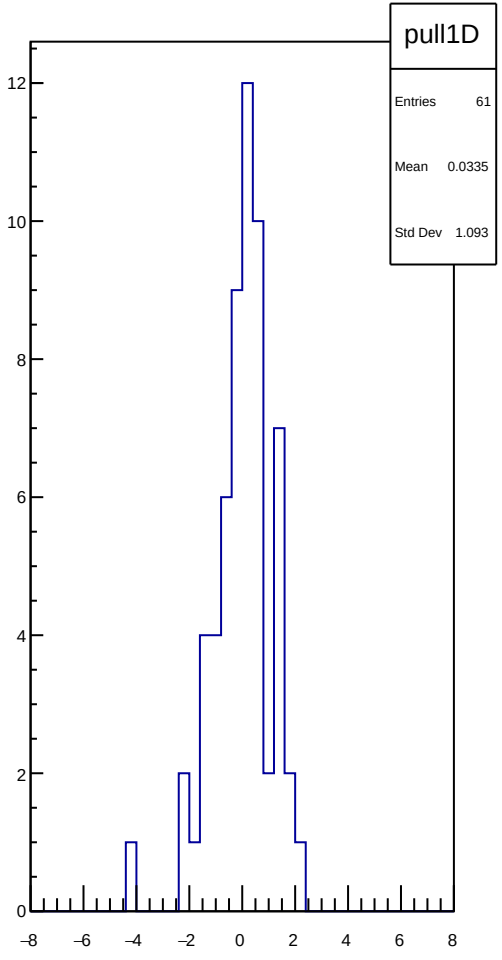

asym_sam_48_avg_rms vs run
χ^2 / ndf 1.189e+04 / 60
p0 2034 ± 1.888
3400
3200
3000
2800
2600
2400
2200
2000
1800

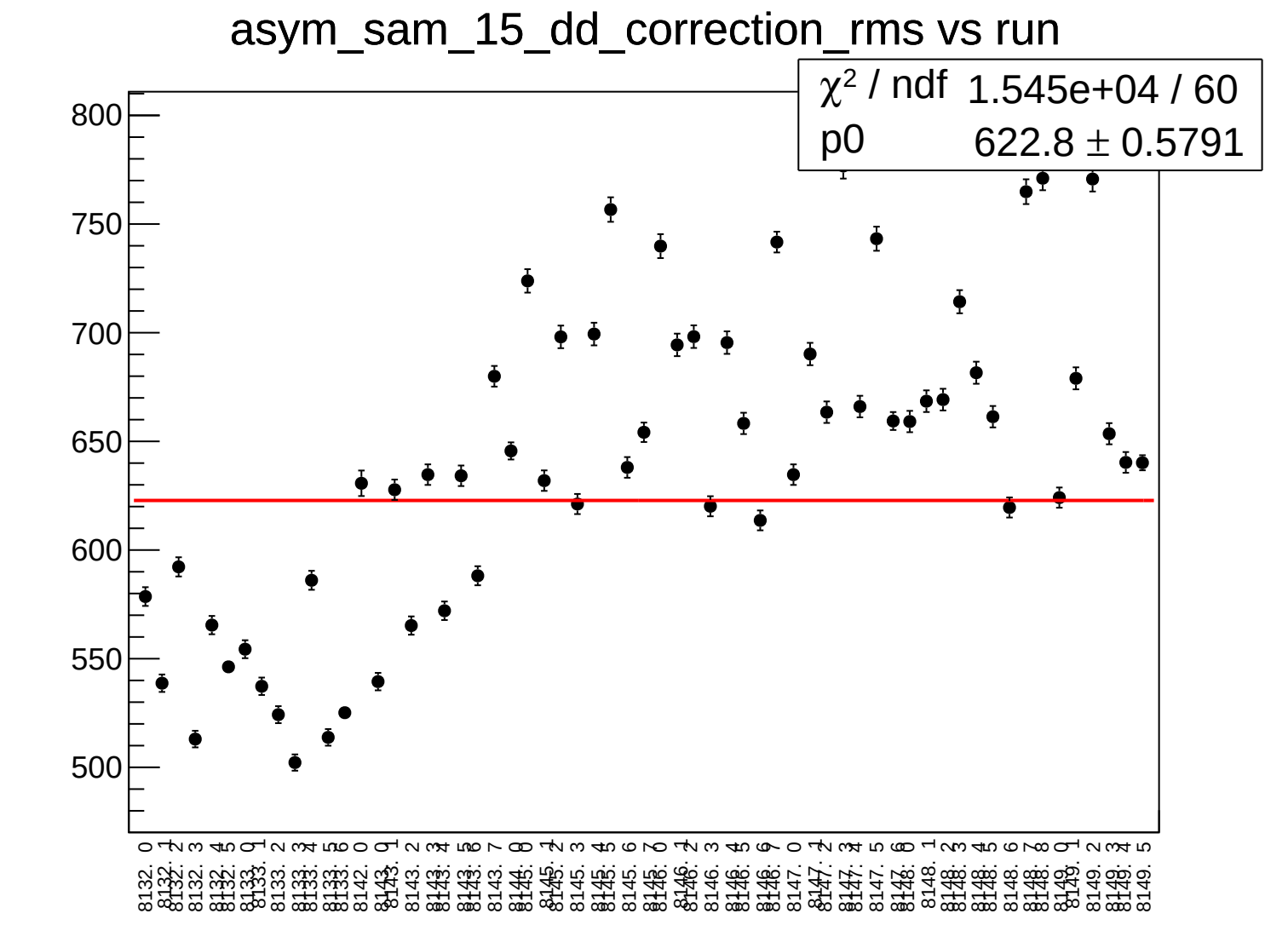

reg_asym_sam_15_dd_mean vs run
χ² / ndf 91.94 / 60
p0 117.9 ± 110.5
pull
Entries 61
Mean −263.3
Std Dev 305.3

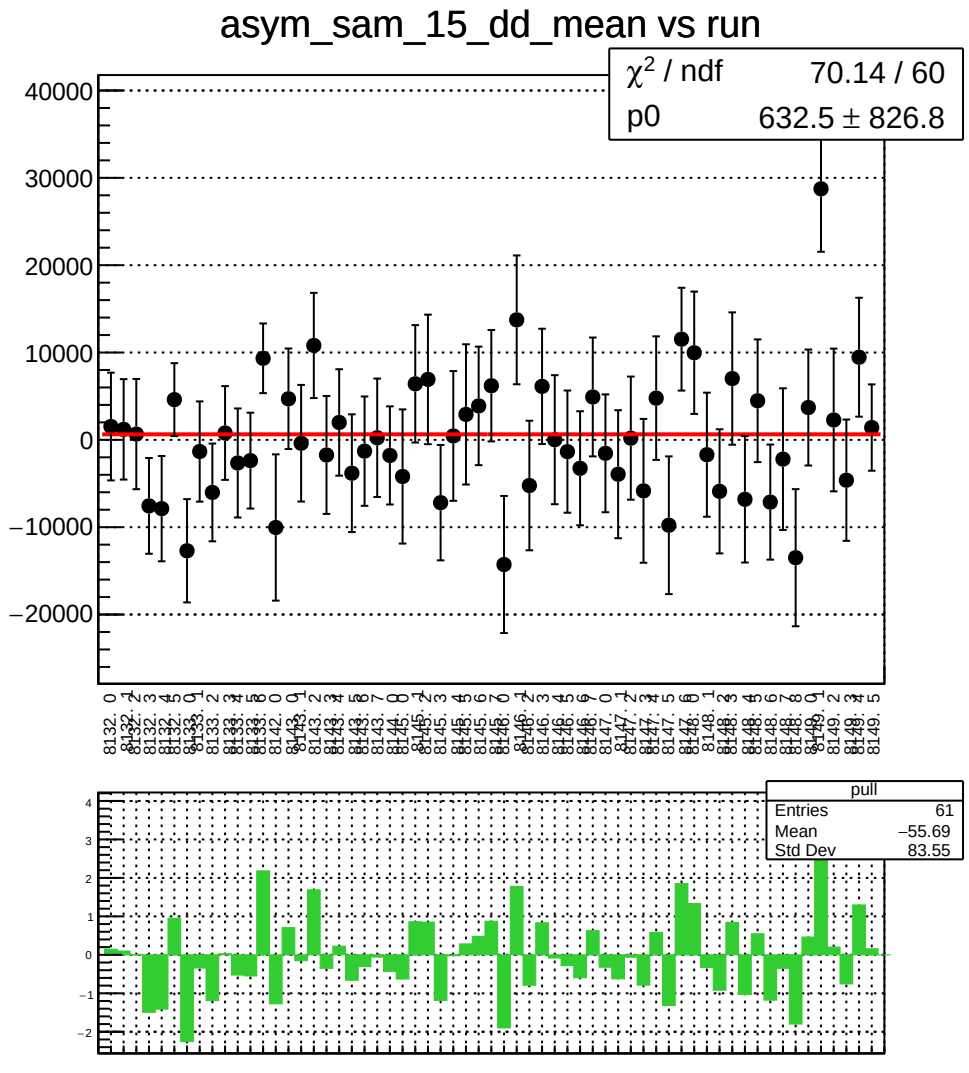

pull1D
Entries 61
Mean −0.009475
Std Dev 1.228

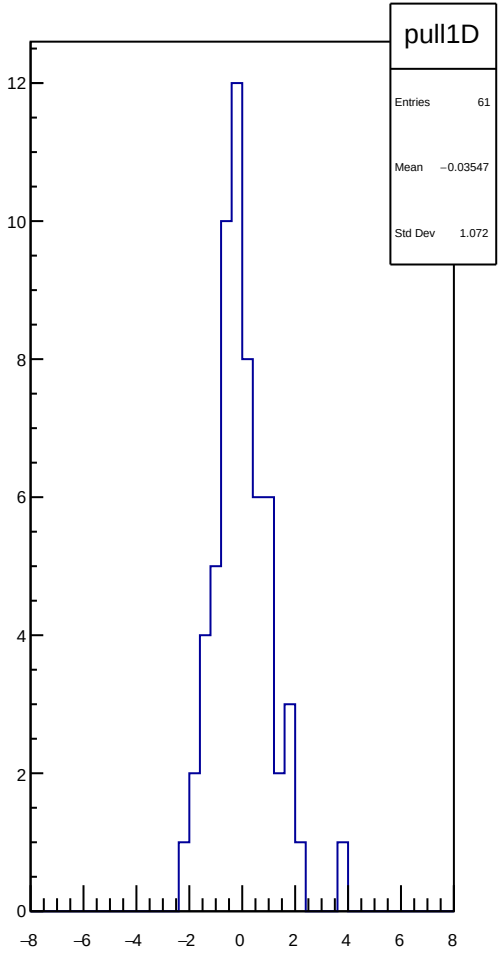

reg_asym_sam_15_dd_rms vs run
χ² / ndf 353.5 / 60
p0 84.54 ± 0.0781
89
88
87
86
85
84
83
82
81
80

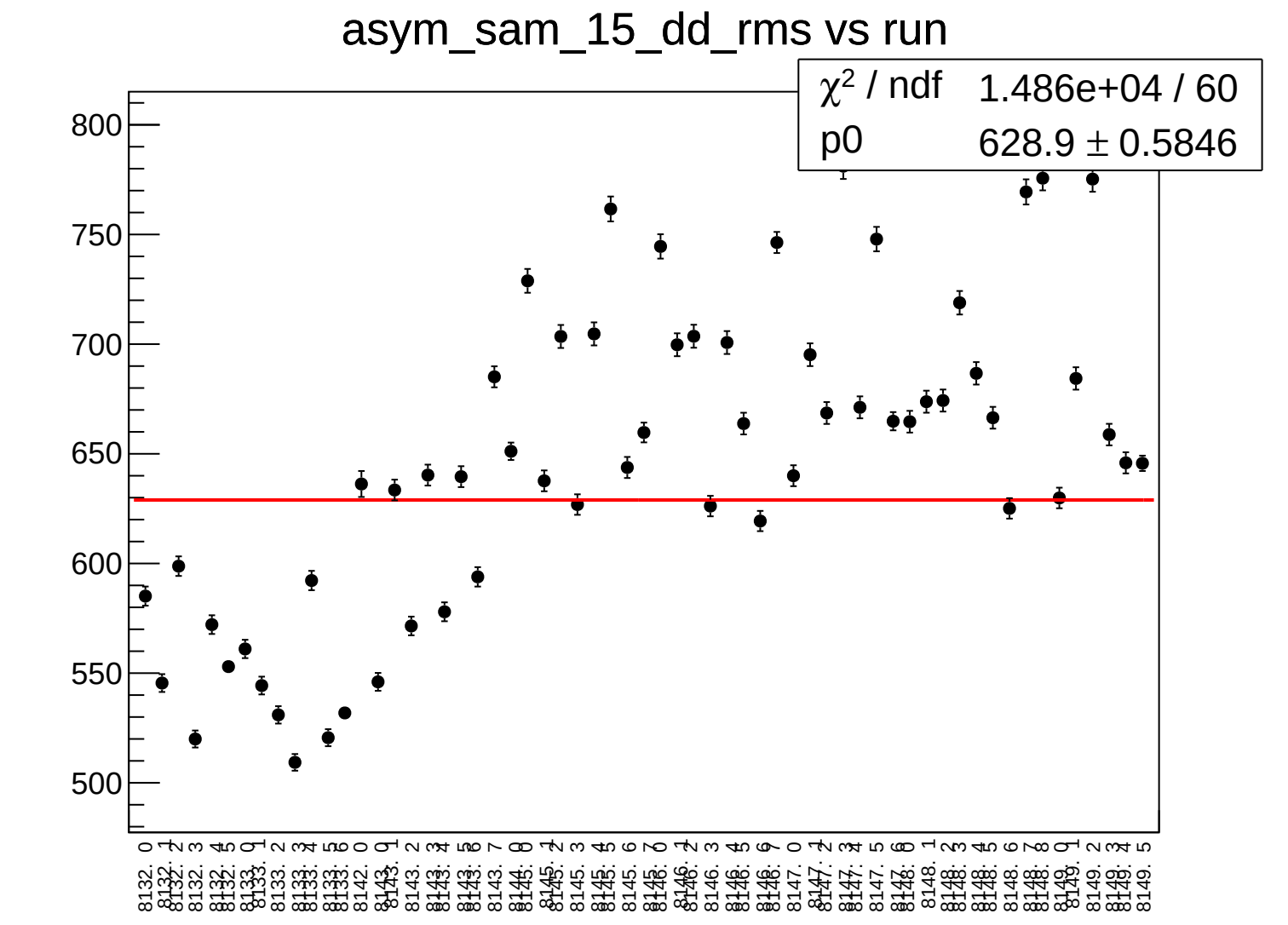

asym_sam_15_dd_correction_mean vs run
χ² / ndf 72.91 / 60
p0 −501.3 ± 818.9
pull
Entries 61
Mean −52.04
Std Dev 78.08

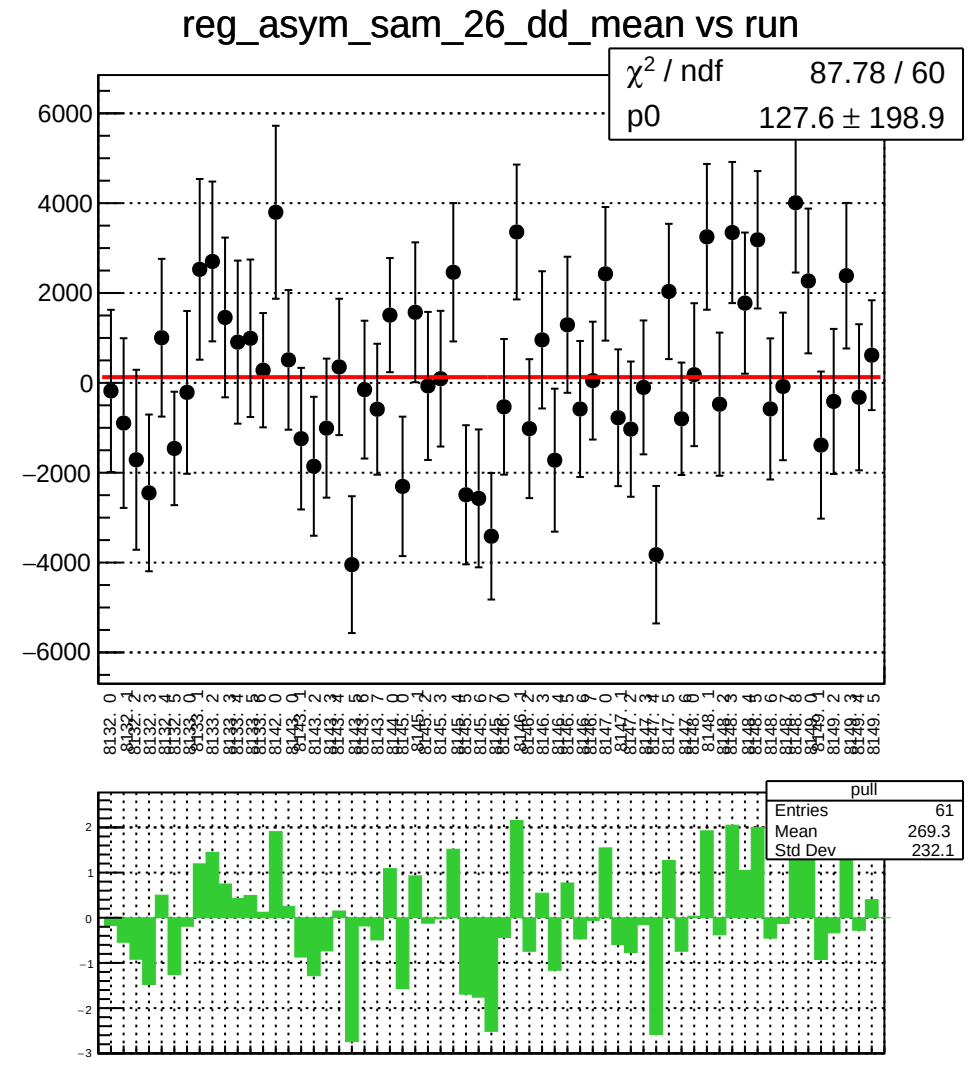

pull1D
Entries 61
Mean 0.0335
Std Dev 1.093

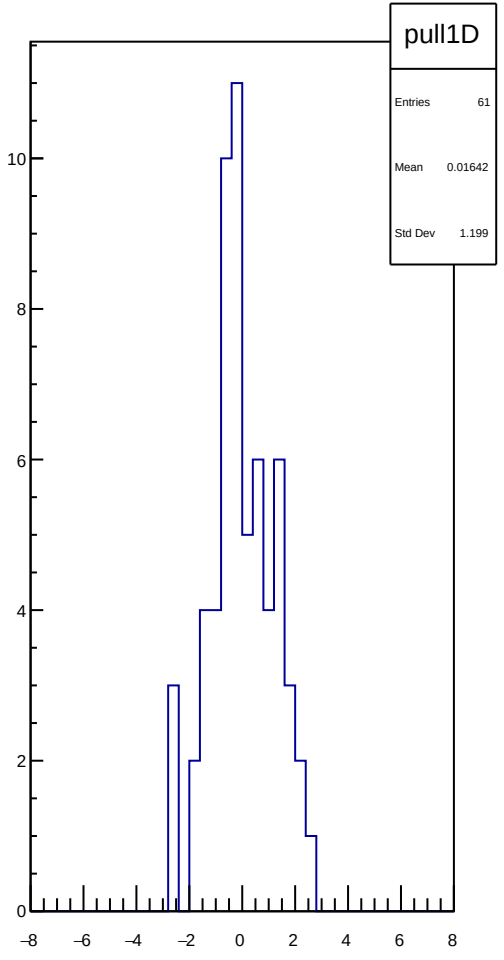

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1.545e+04 / 60
p0 622.8 ± 0.5791
800
750
700
650
600
550
500

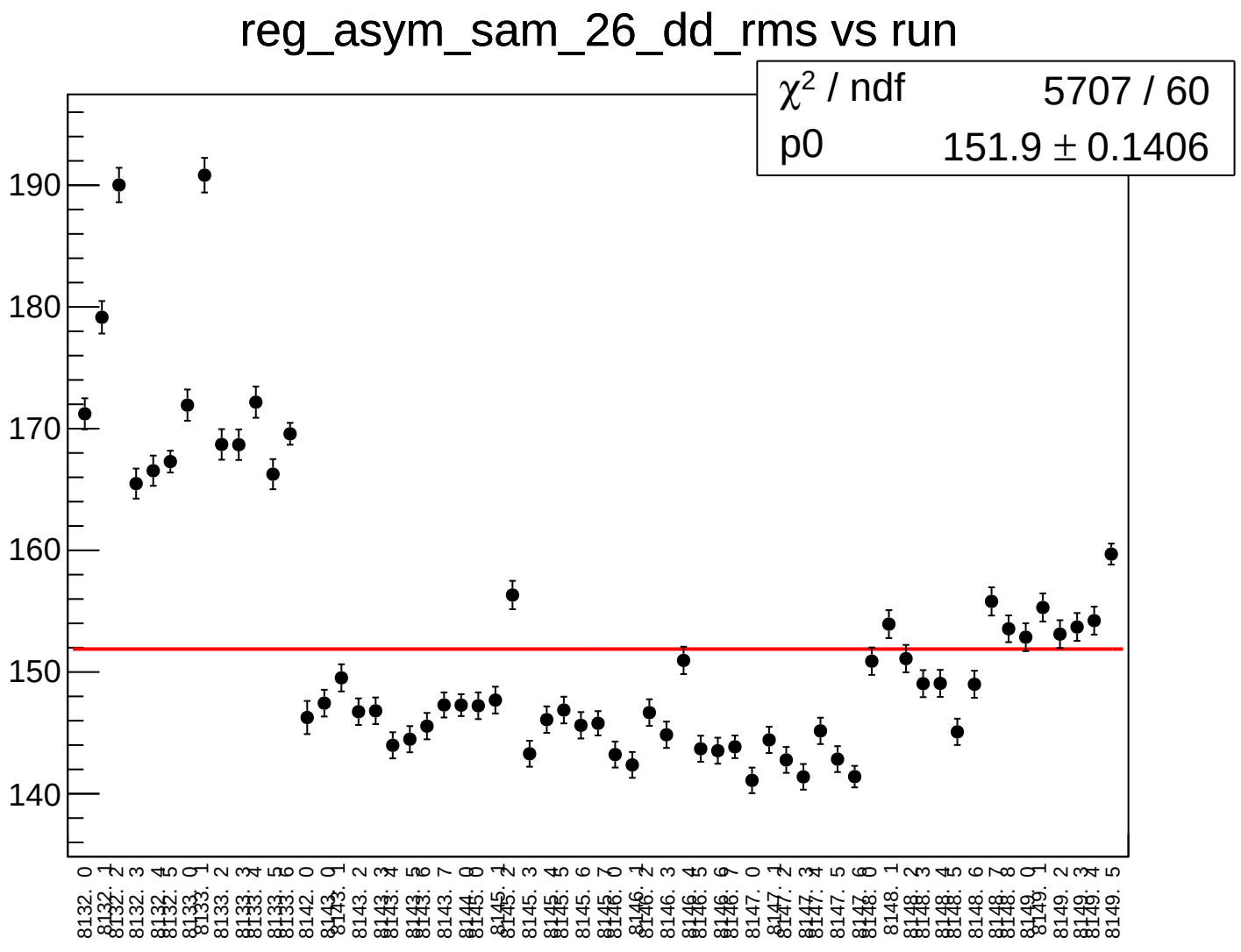

asym_sam_15_dd_mean vs run
χ² / ndf 70.14 / 60
p0 632.5 ± 826.8
pull
Entries 61
Mean −55.69
Std Dev 83.55

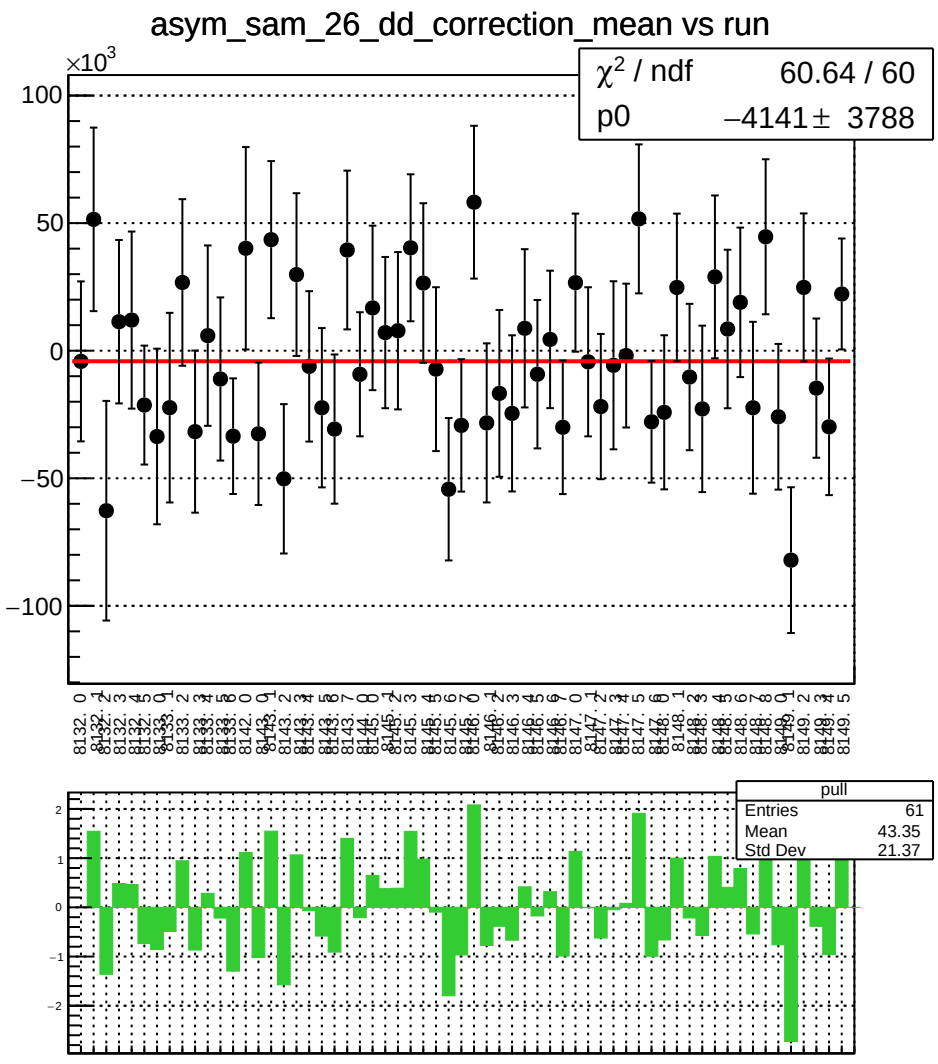

pull1D
Entries 61
Mean −0.03547
Std Dev 1.072

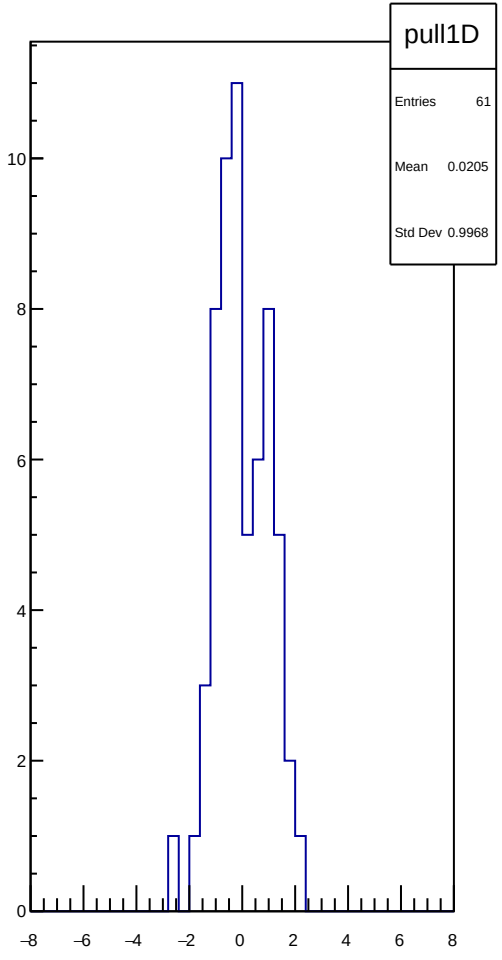

asym_sam_15_dd_rms vs run
χ² / ndf 1.486e+04 / 60
p0 628.9 ± 0.5846
800
750
700
650
600
550
500
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 0
8133. 1
8133. 2
8133. 3
8133. 4
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8145. 0
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

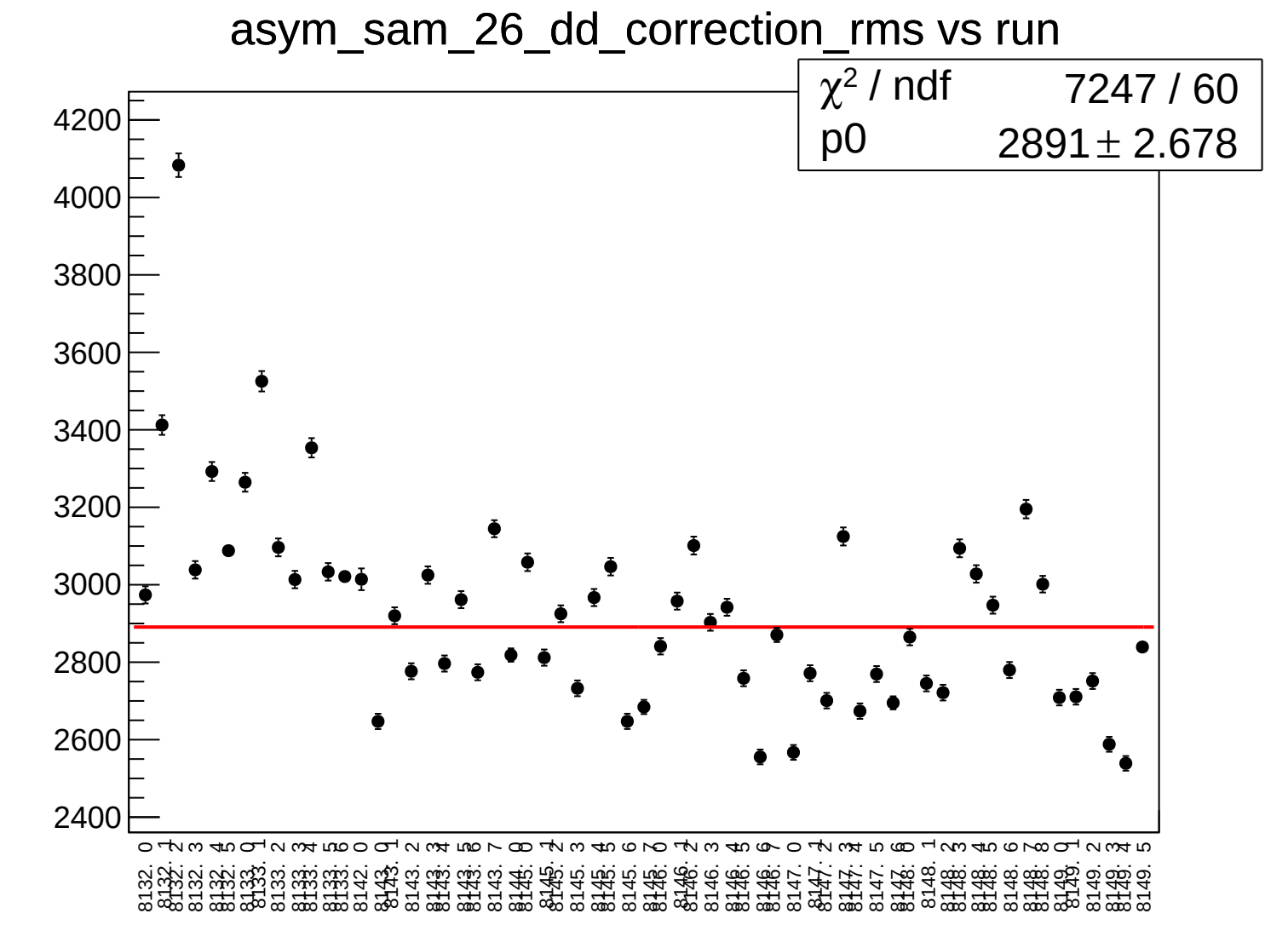

reg_asym_sam_26_dd_mean vs run
χ² / ndf 87.78 / 60
p0 127.6 ± 198.9
pull
Entries 61
Mean 269.3
Std Dev 232.1

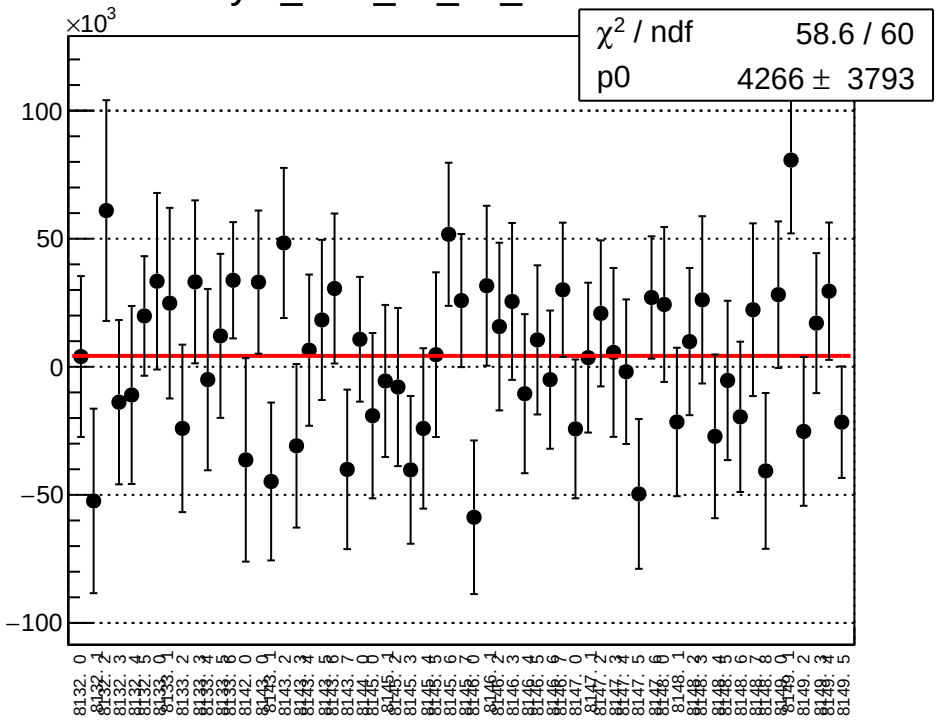

pull1D
Entries 61
Mean 0.01642
Std Dev 1.199

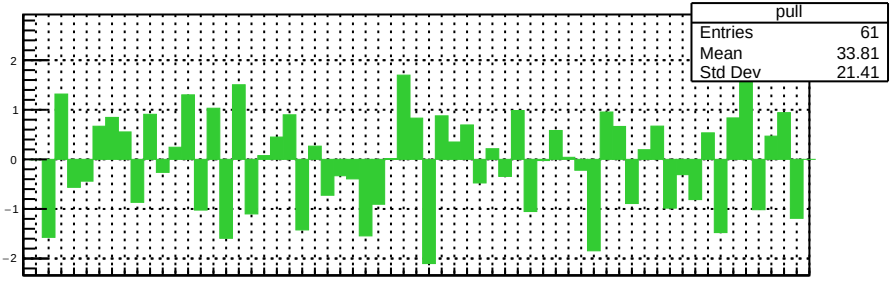

reg_asym_sam_26_dd_rms vs run
χ² / ndf 5707 / 60
p0 151.9 ± 0.1406
190
180
170
160
150
140

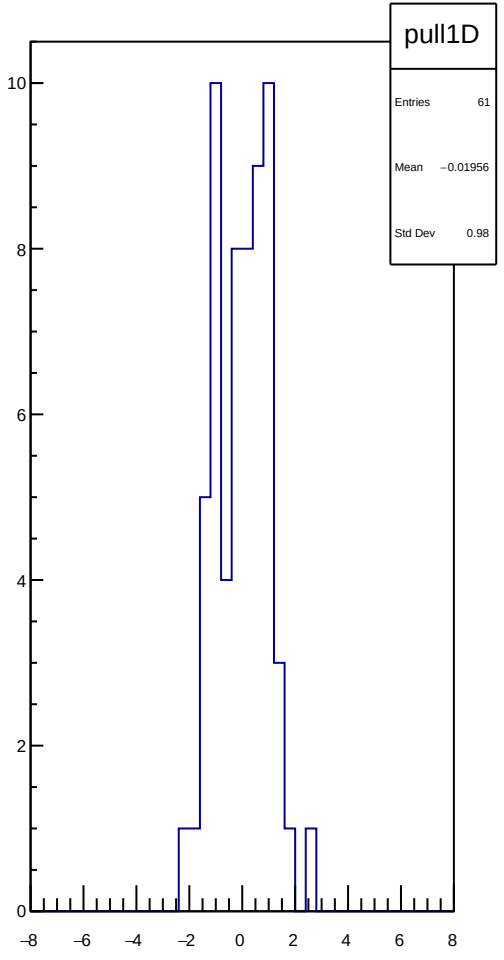

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 60.64 / 60
p0 −4141 ± 3788
100
50
0
−50
−100
pull
Entries 61
Mean 43.35
Std Dev 21.37
2
1
0
−1
−2

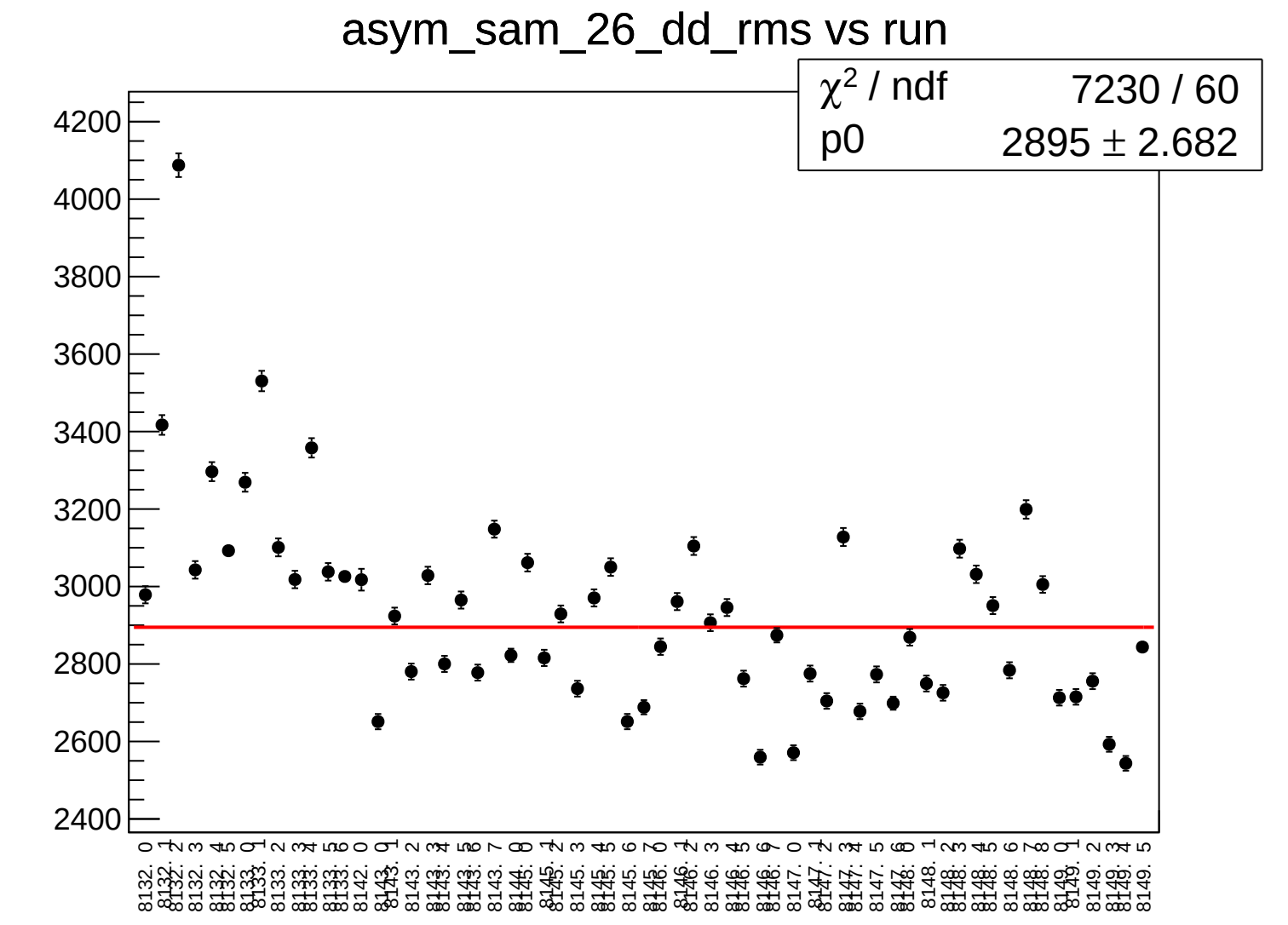

pull1D
Entries 61
Mean 0.0205
Std Dev 0.9968
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

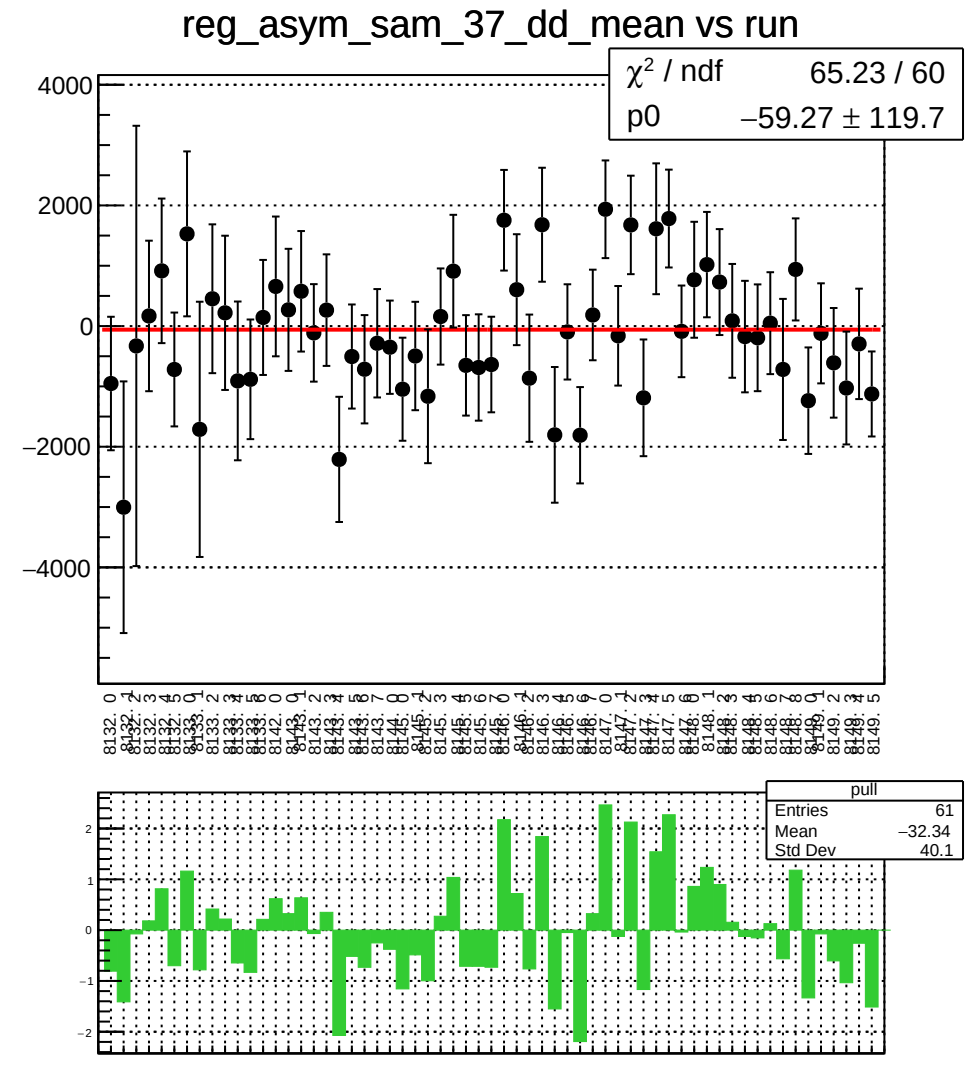

asym_sam_26_dd_correction_rms vs run
χ² / ndf 7247 / 60
p0 2891 ± 2.678
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

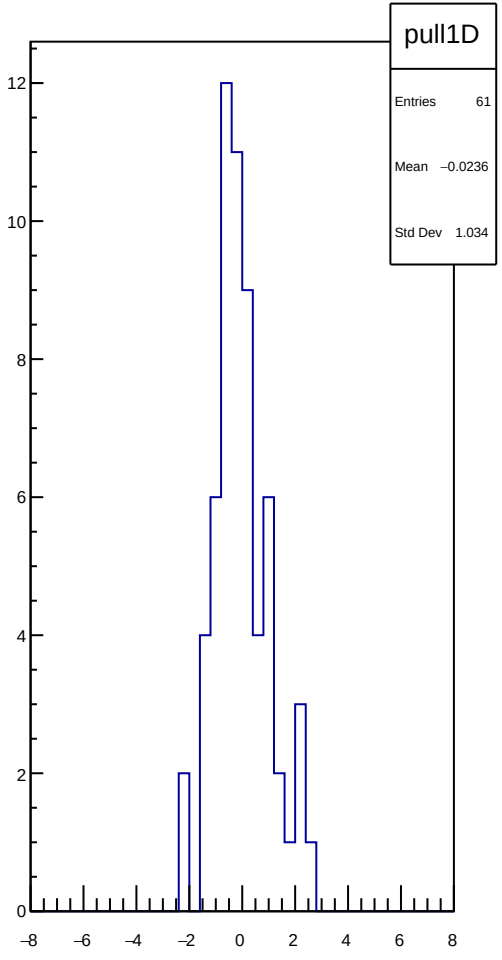

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 58.6 / 60
p0 4266 ± 3793
100
50
0
−50
−100

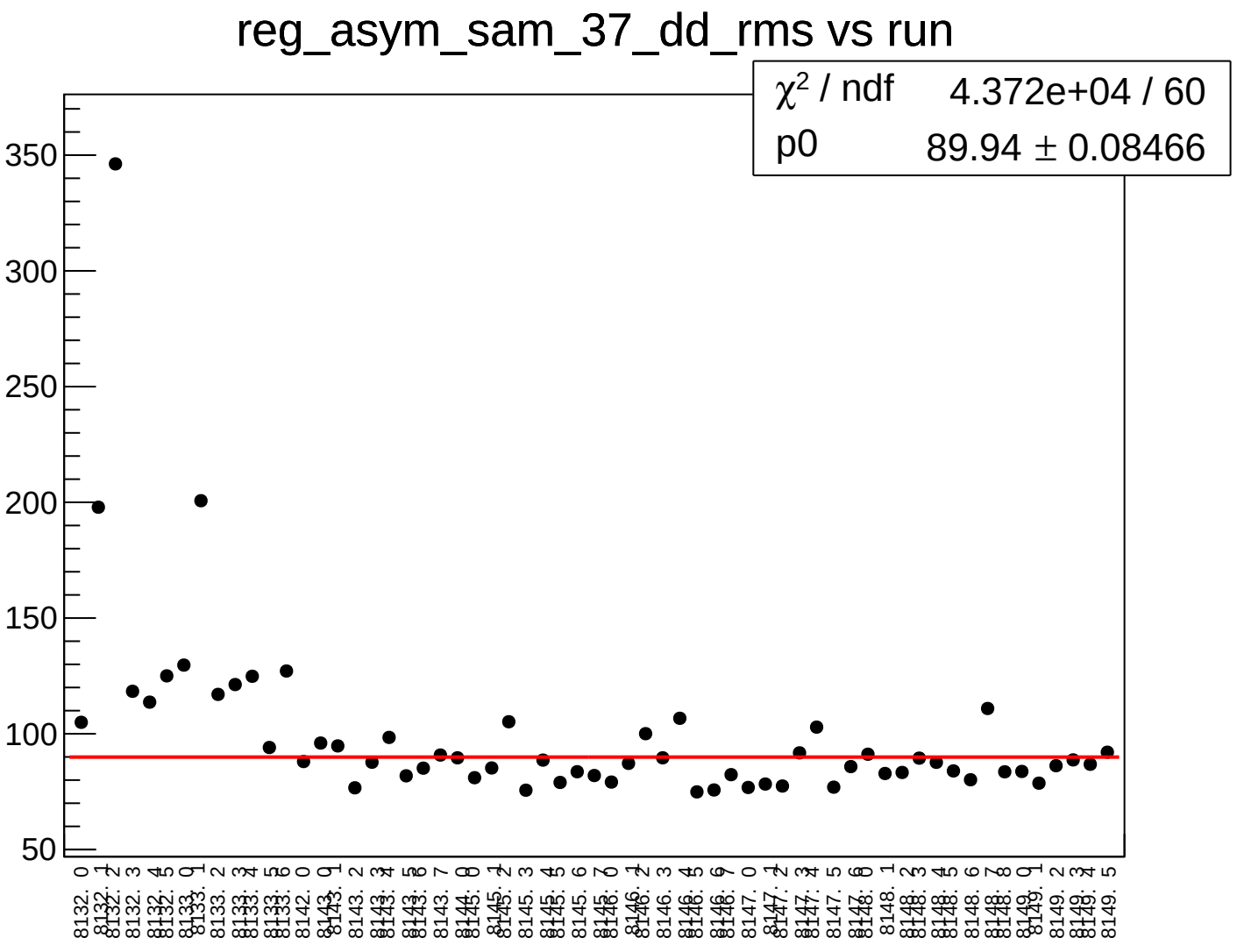

pull
Entries 61
Mean 33.81
Std Dev 21.41
2
1
0
−1
−2

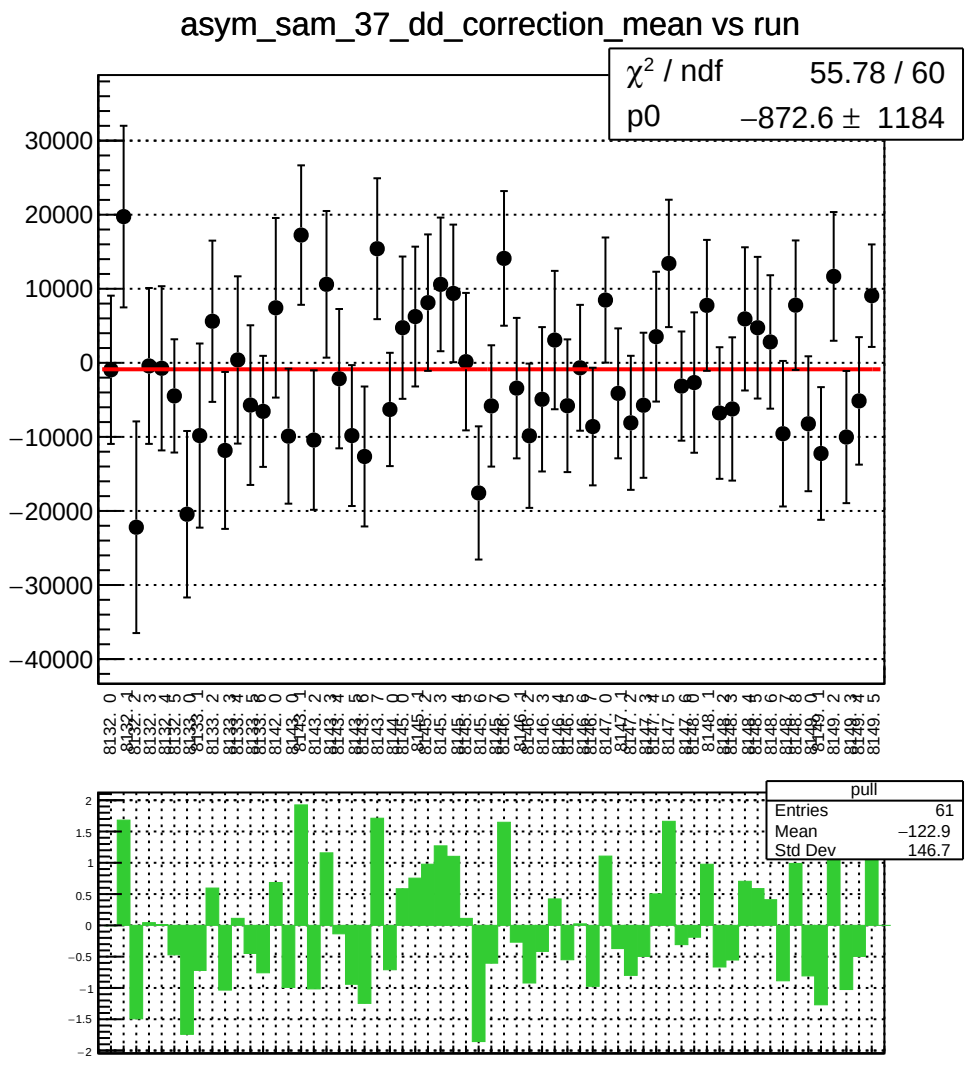

pull1D
Entries 61
Mean −0.01956
Std Dev 0.98
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

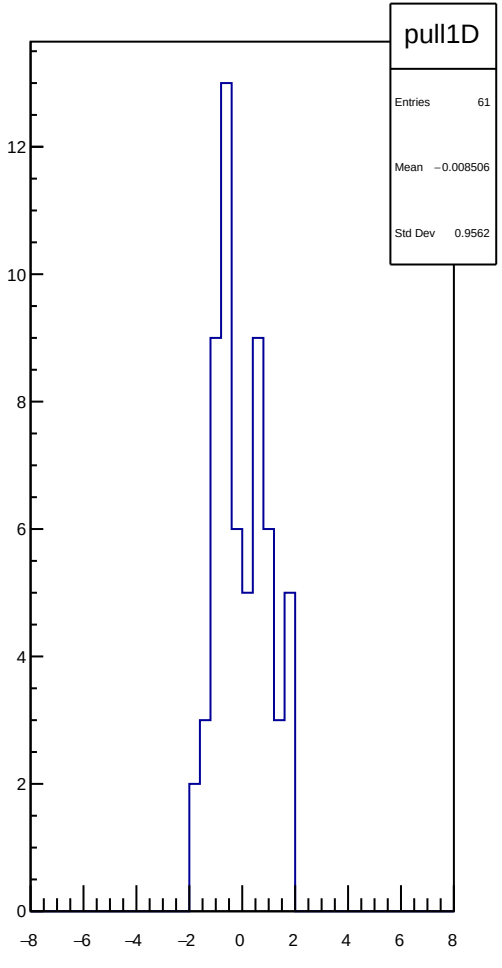

asym_sam_26_dd_rms vs run
χ² / ndf 7230 / 60
p0 2895 ± 2.682
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

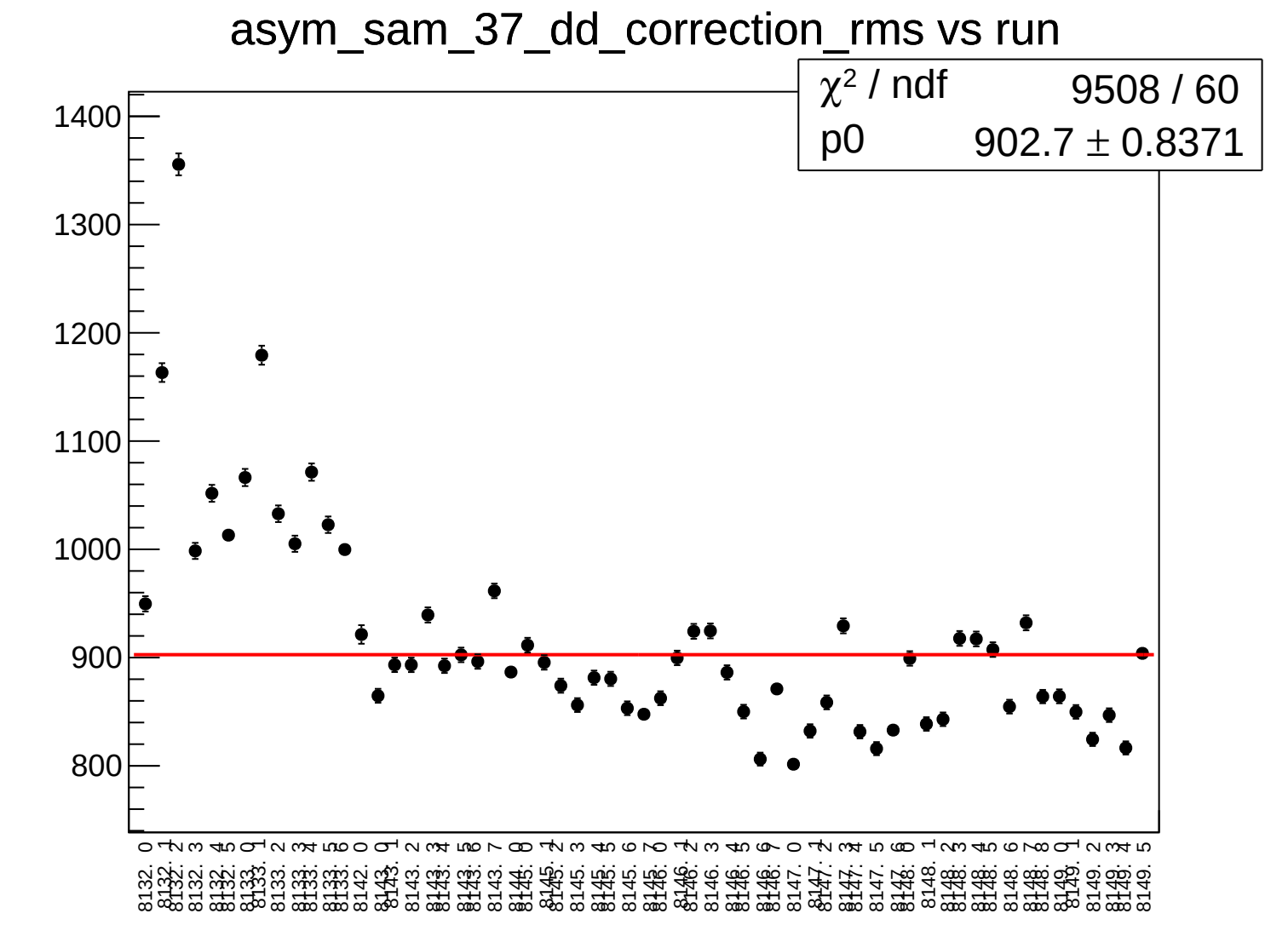

reg_asym_sam_37_dd_mean vs run
χ² / ndf 65.23 / 60
p0 −59.27 ± 119.7
4000
2000
0
−2000
−4000
pull
Entries 61
Mean −32.34
Std Dev 40.1
2
1
0
−1
−2

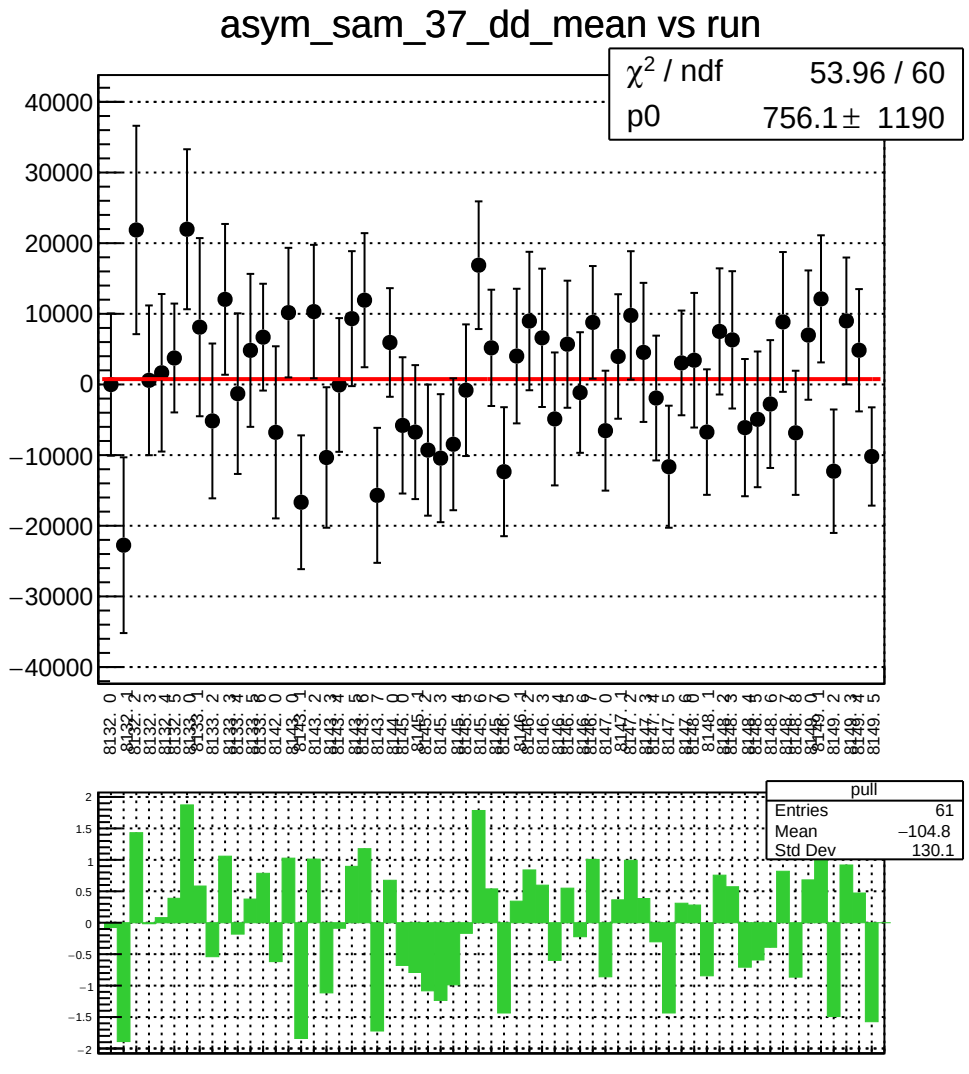

pull1D
Entries 61
Mean −0.0236
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

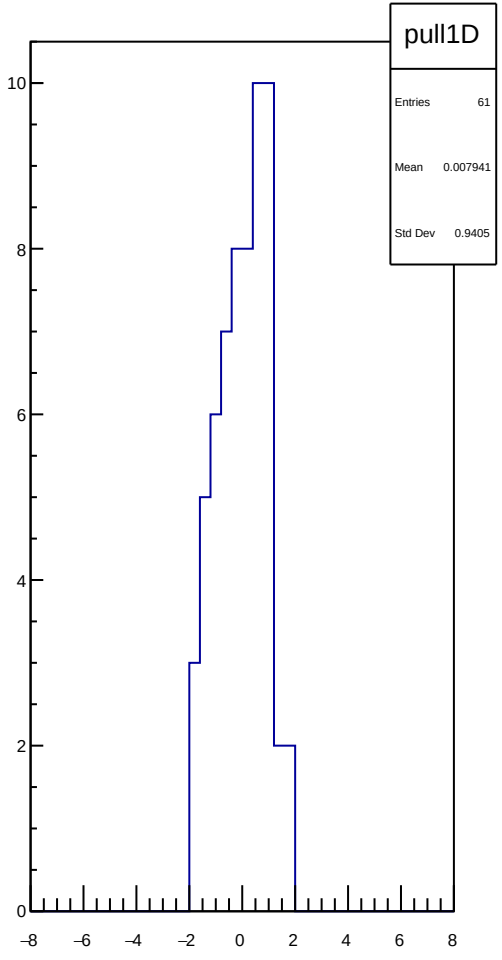

reg_asym_sam_37_dd_rms vs run
χ² / ndf 4.372e+04 / 60
p0 89.94 ± 0.08466
350
300
250
200
150
100
50

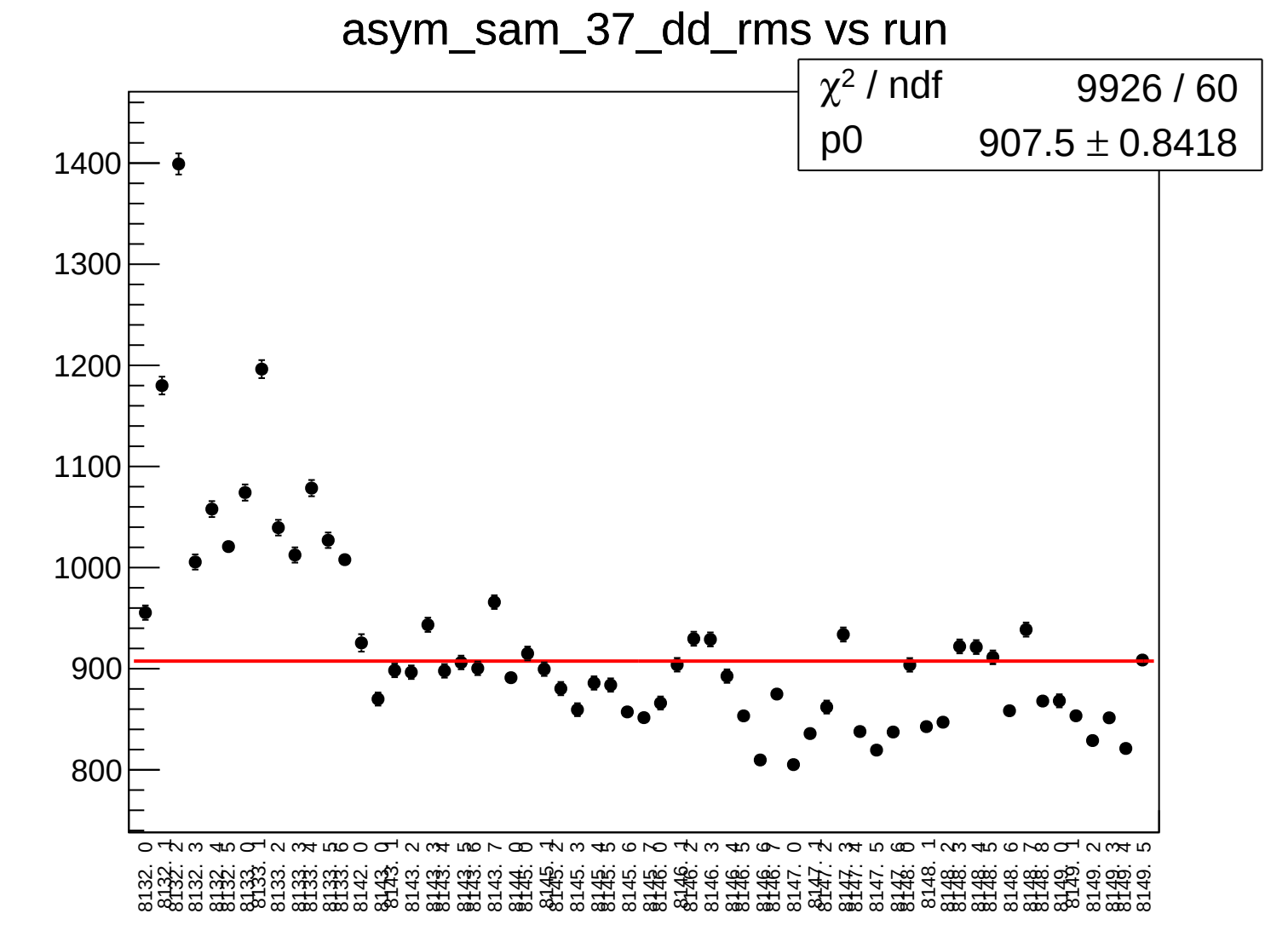

asym_sam_37_dd_correction_mean vs run
χ² / ndf 55.78 / 60
p0 −872.6 ± 1184
pull
Entries 61
Mean −122.9
Std Dev 146.7

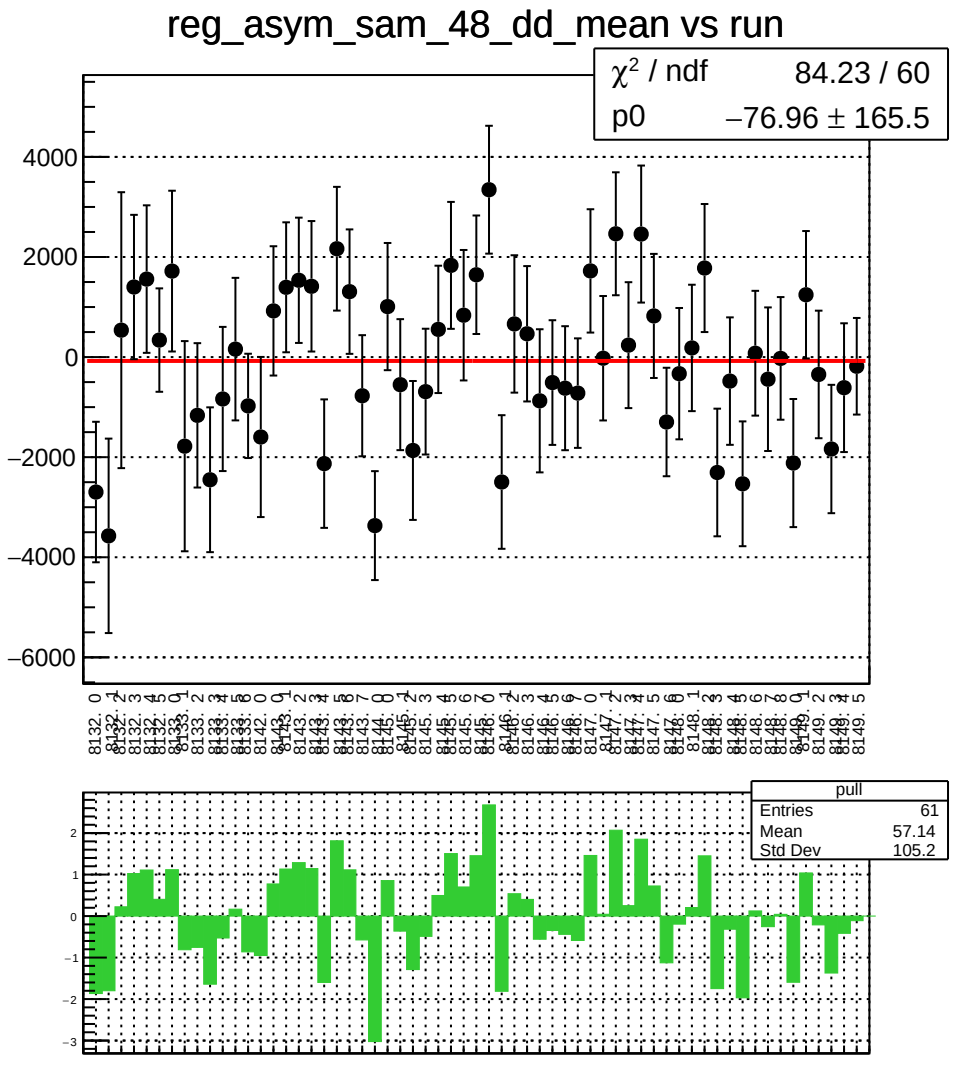

pull1D
Entries 61
Mean −0.008506
Std Dev 0.9562

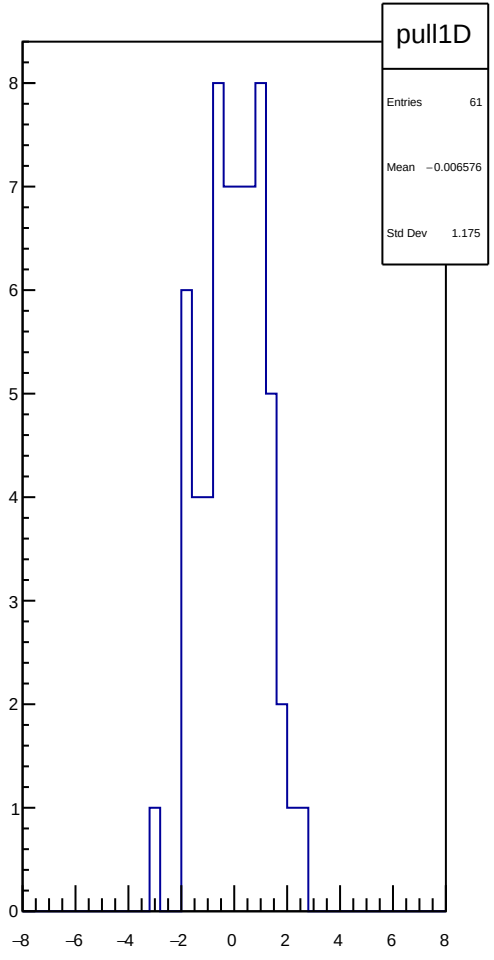

asym_sam_37_dd_correction_rms vs run
χ² / ndf 9508 / 60
p0 902.7 ± 0.8371
1400
1300
1200
1100
1000
900
800

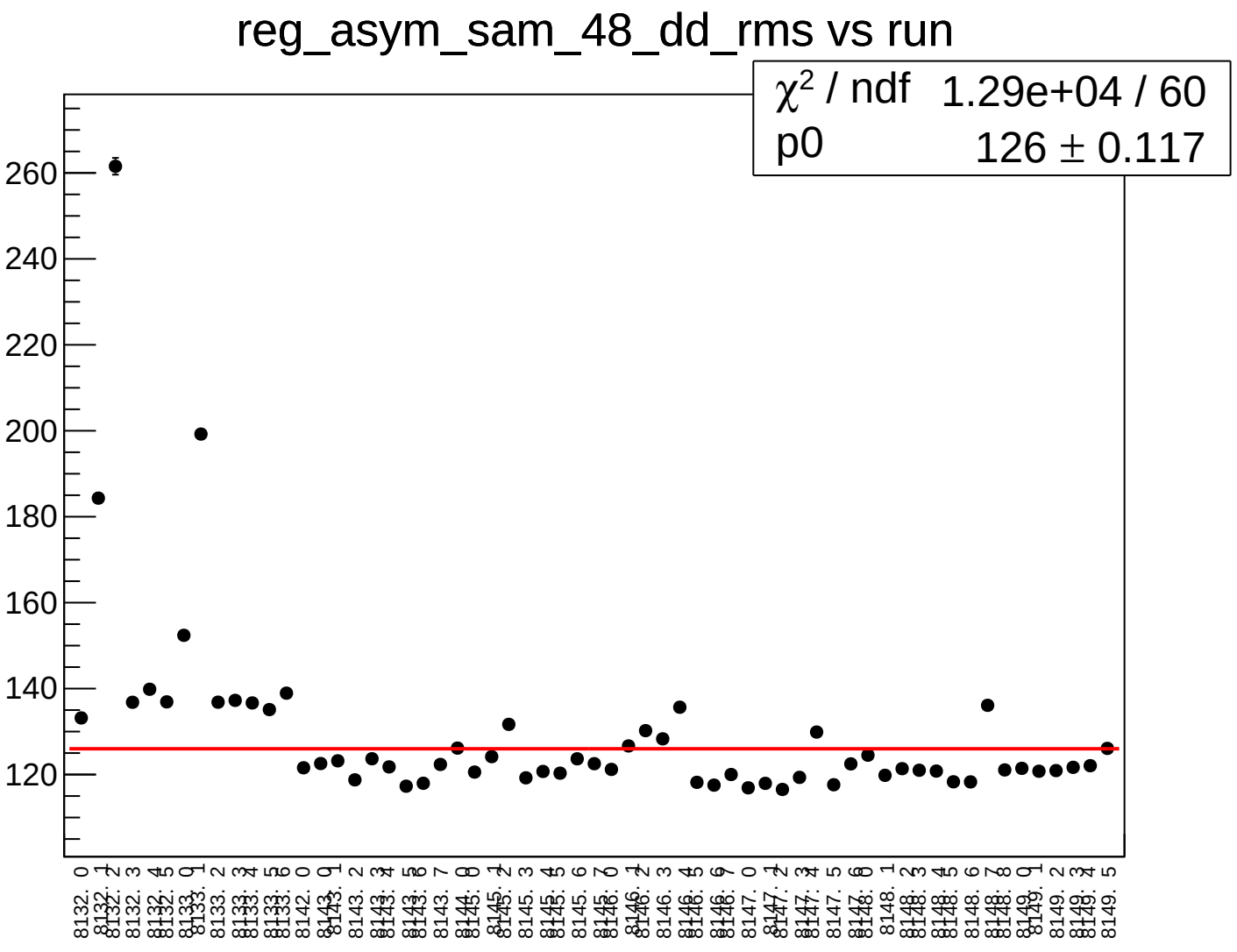

asym_sam_37_dd_mean vs run
χ² / ndf 53.96 / 60
p0 756.1 ± 1190
pull
Entries 61
Mean −104.8
Std Dev 130.1

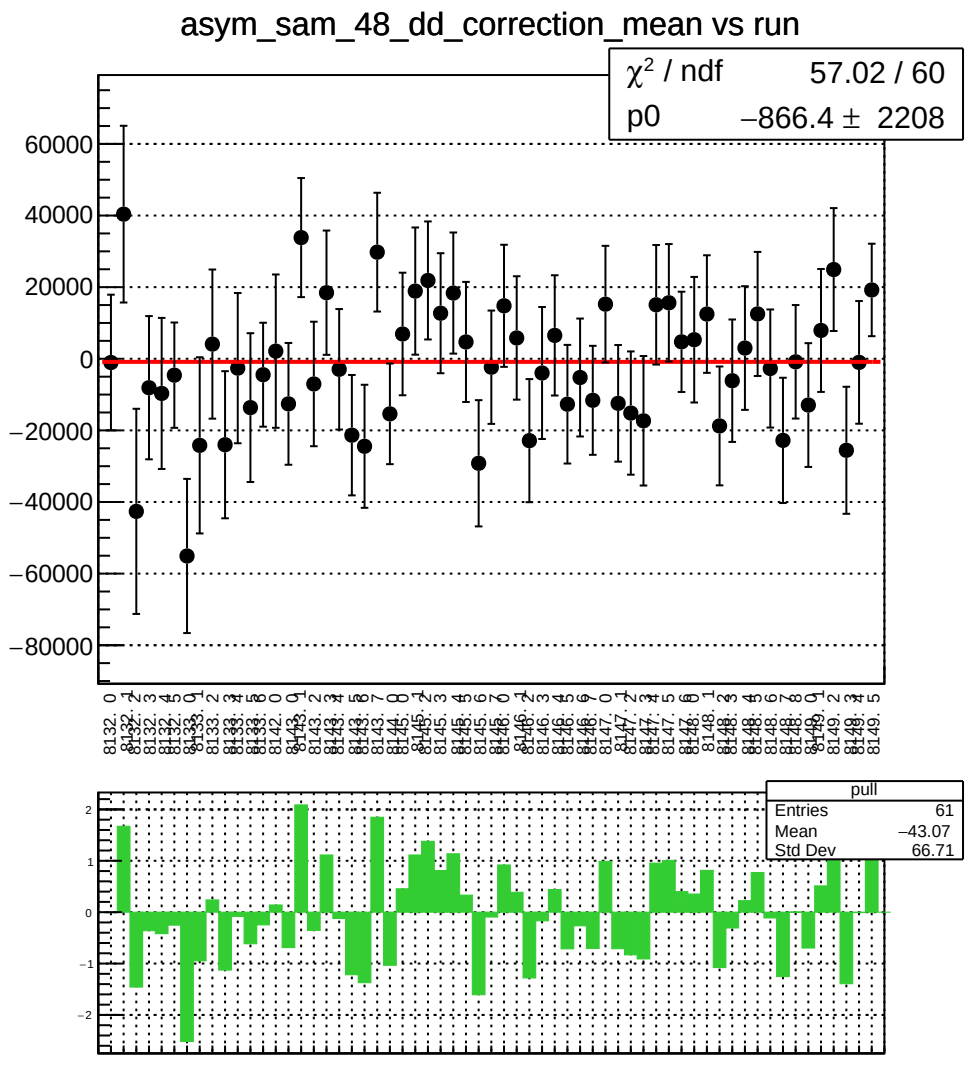

pull1D
Entries 61
Mean 0.007941
Std Dev 0.9405

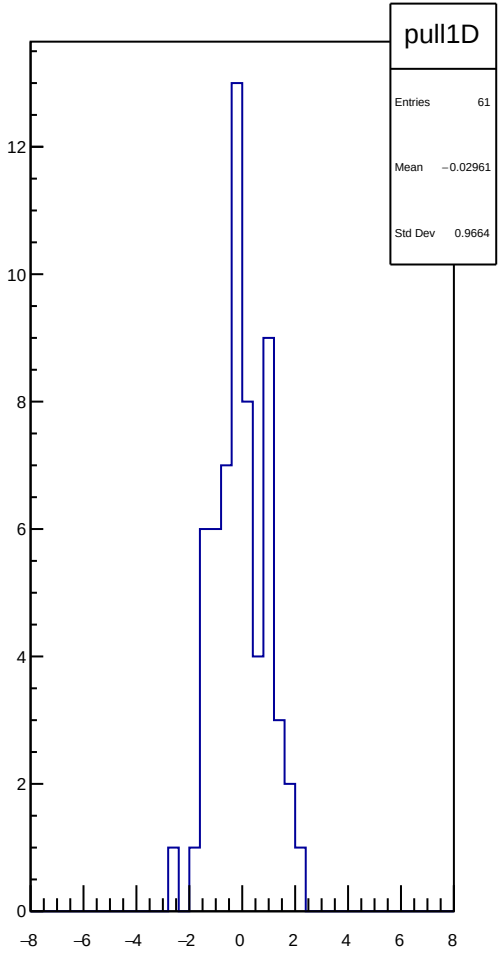

asym_sam_37_dd_rms vs run
χ² / ndf 9926 / 60
p0 907.5 ± 0.8418
1400
1300
1200
1100
1000
900
800

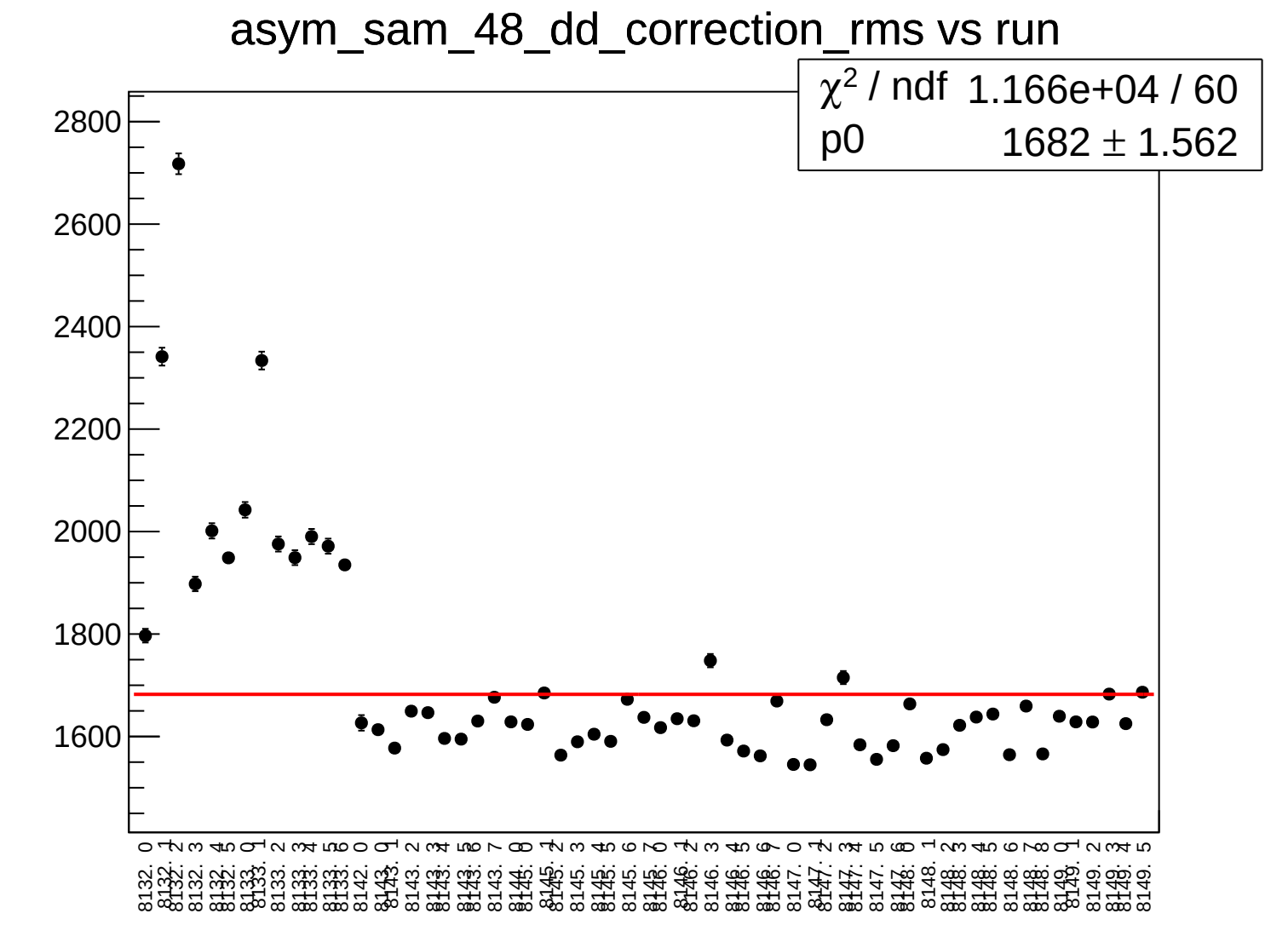

reg_asym_sam_48_dd_mean vs run
χ² / ndf 84.23 / 60
p0 −76.96 ± 165.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 61
Mean 57.14
Std Dev 105.2
2
1
0
−1
−2
−3

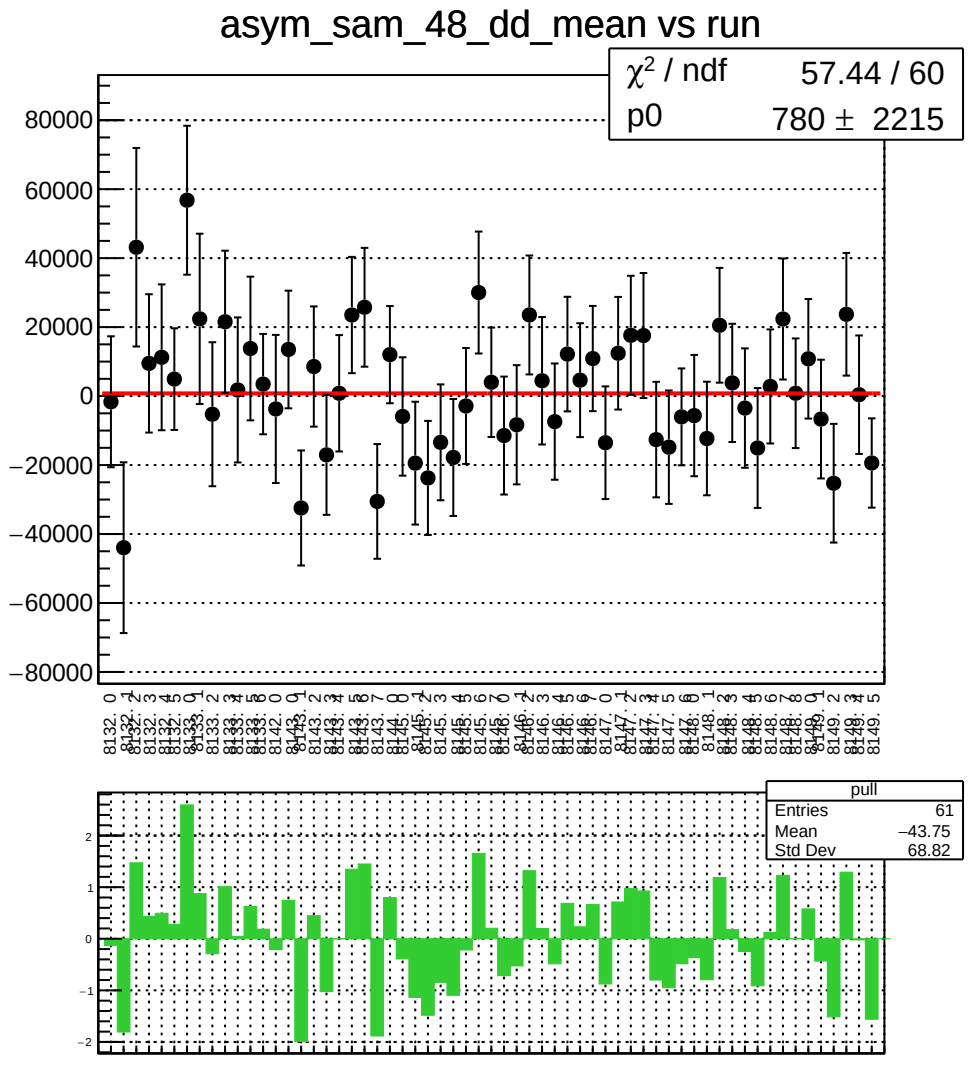

pull1D
Entries 61
Mean −0.006576
Std Dev 1.175
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

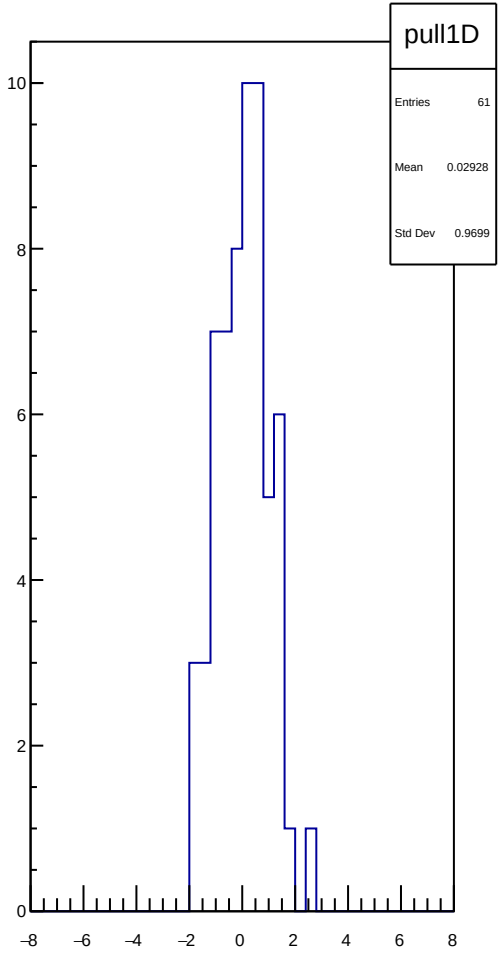

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1.29e+04 / 60
p0 126 ± 0.117
260
240
220
200
180
160
140
120

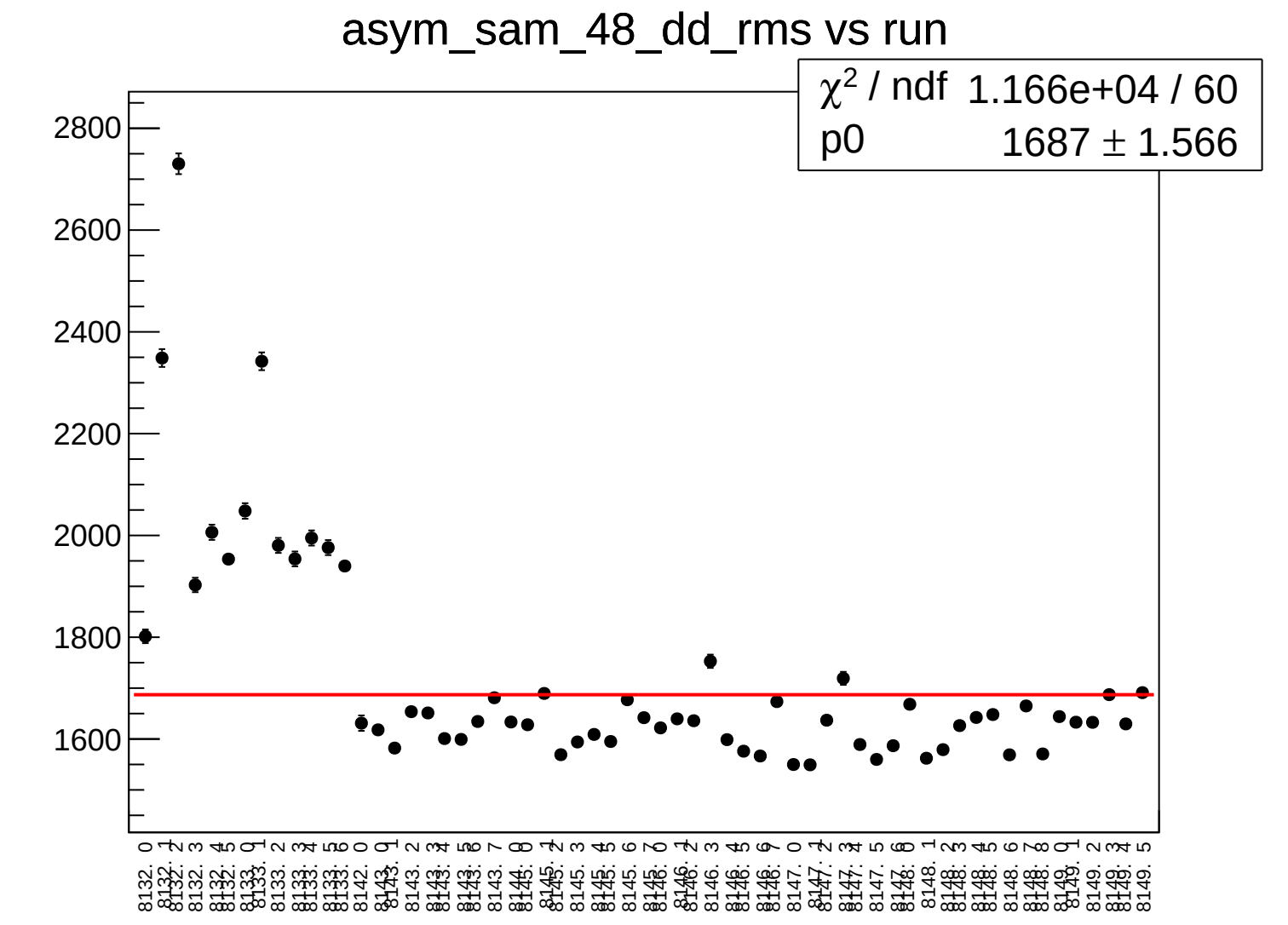

asym_sam_48_dd_correction_mean vs run
χ² / ndf 57.02 / 60
p0 −866.4 ± 2208
pull
Entries 61
Mean −43.07
Std Dev 66.71

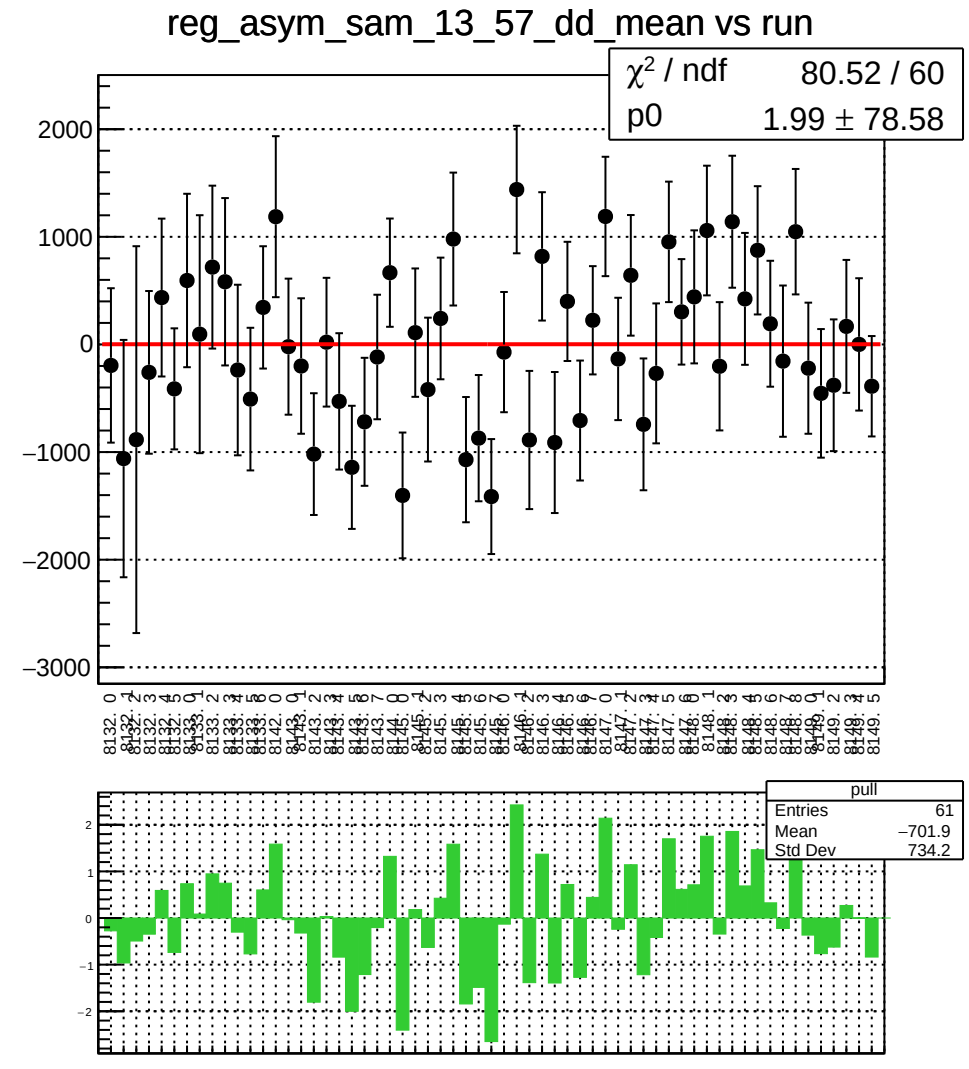

pull1D
Entries 61
Mean −0.02961
Std Dev 0.9664

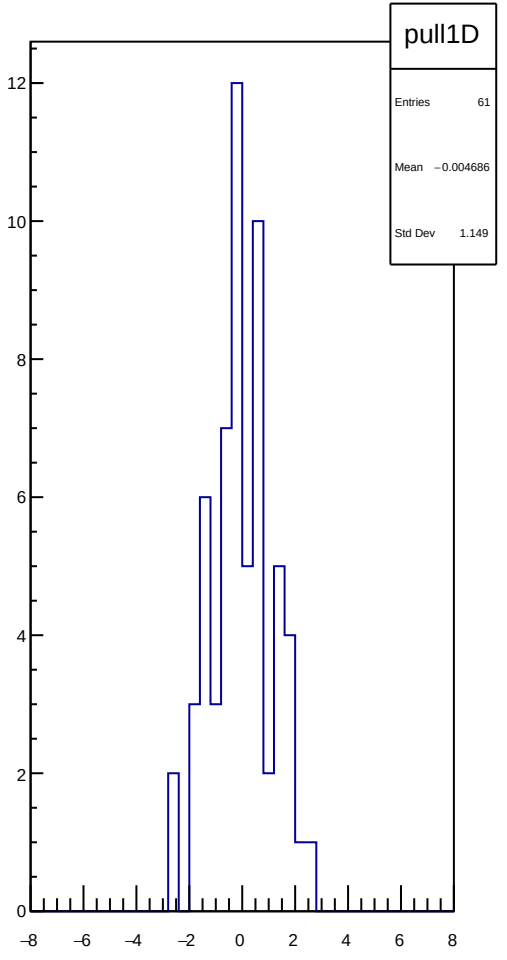

asym_sam_48_dd_correction_rms vs run
χ² / ndf 1.166e+04 / 60
p0 1682 ± 1.562
2800
2600
2400
2200
2000
1800
1600

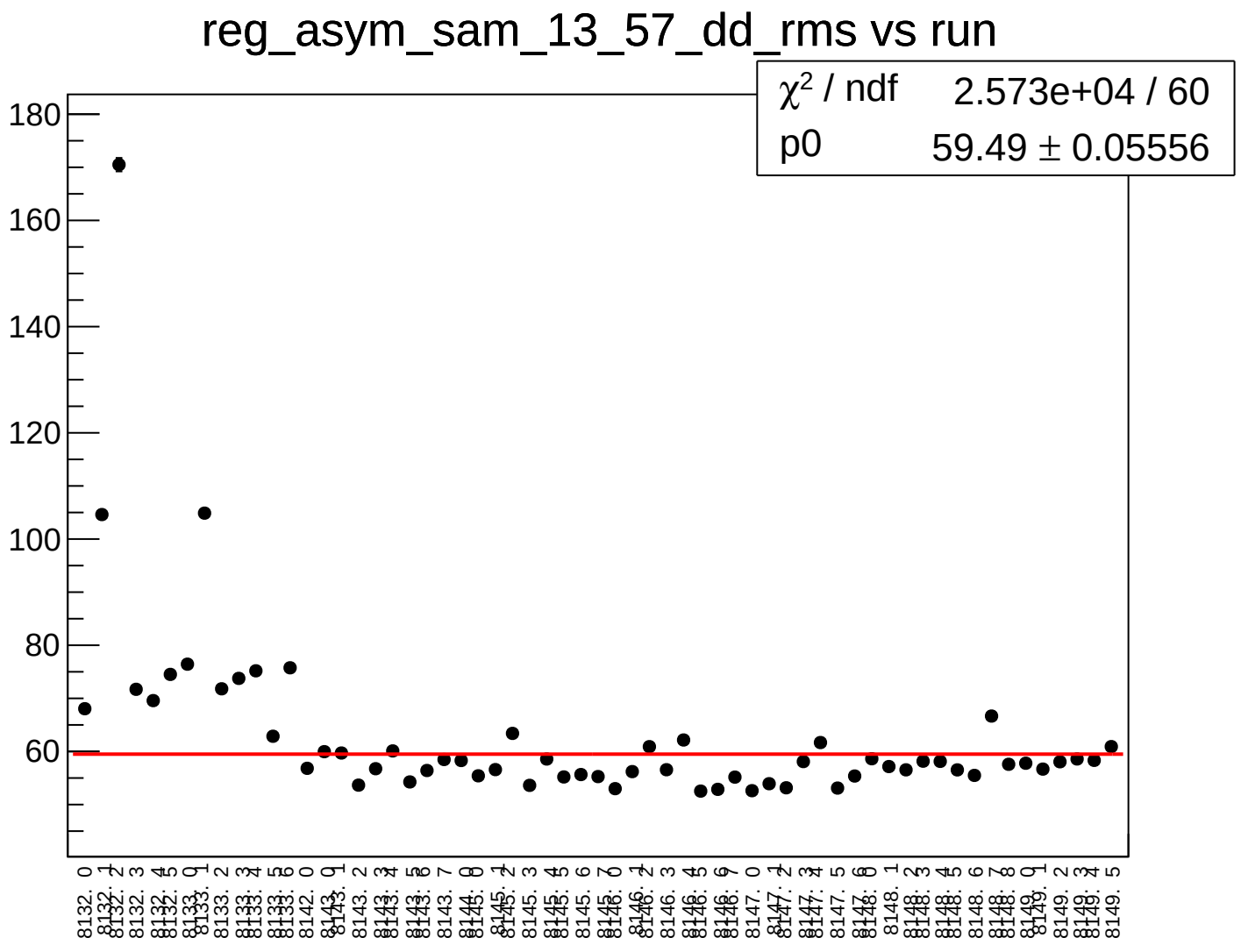

asym_sam_48_dd_mean vs run
χ² / ndf 57.44 / 60
p0 780 ± 2215
pull
Entries 61
Mean −43.75
Std Dev 68.82

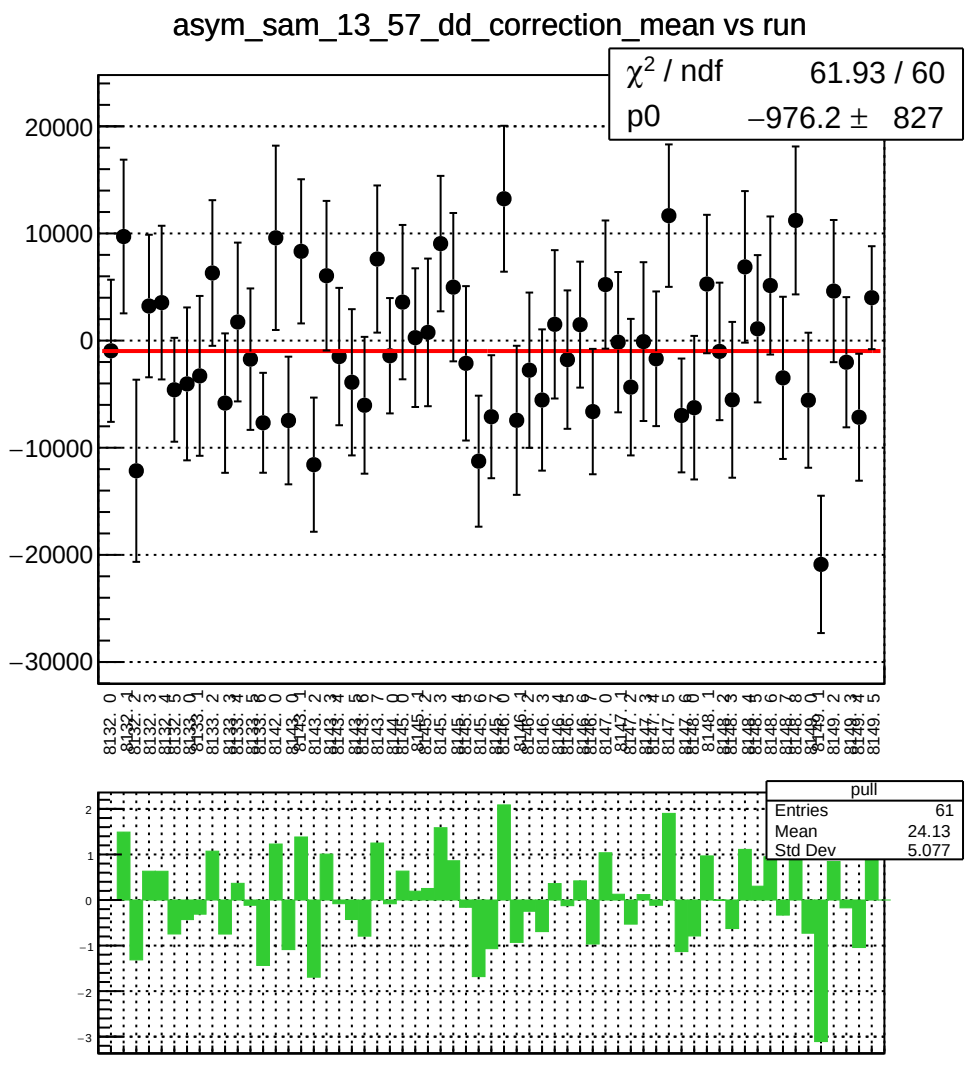

pull1D
Entries 61
Mean 0.02928
Std Dev 0.9699

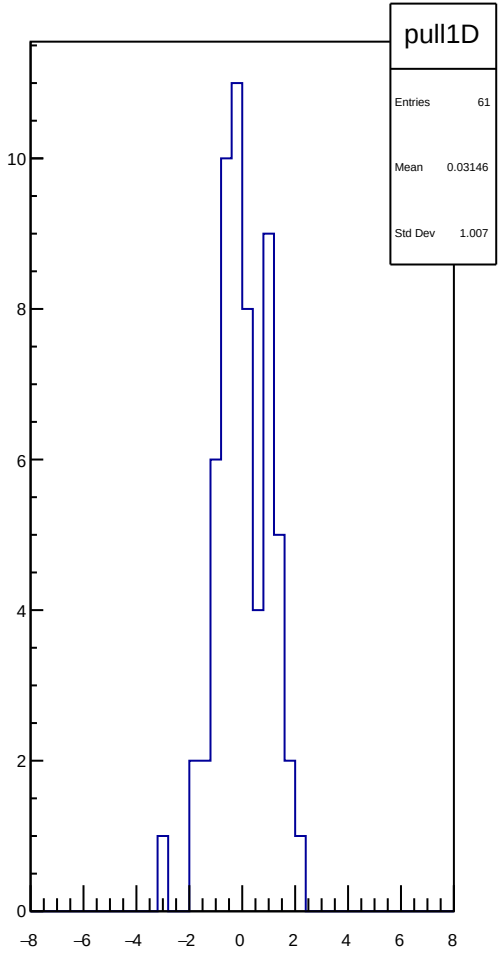

asym_sam_48_dd_rms vs run
χ² / ndf 1.166e+04 / 60
p0 1687 ± 1.566
2800
2600
2400
2200
2000
1800
1600

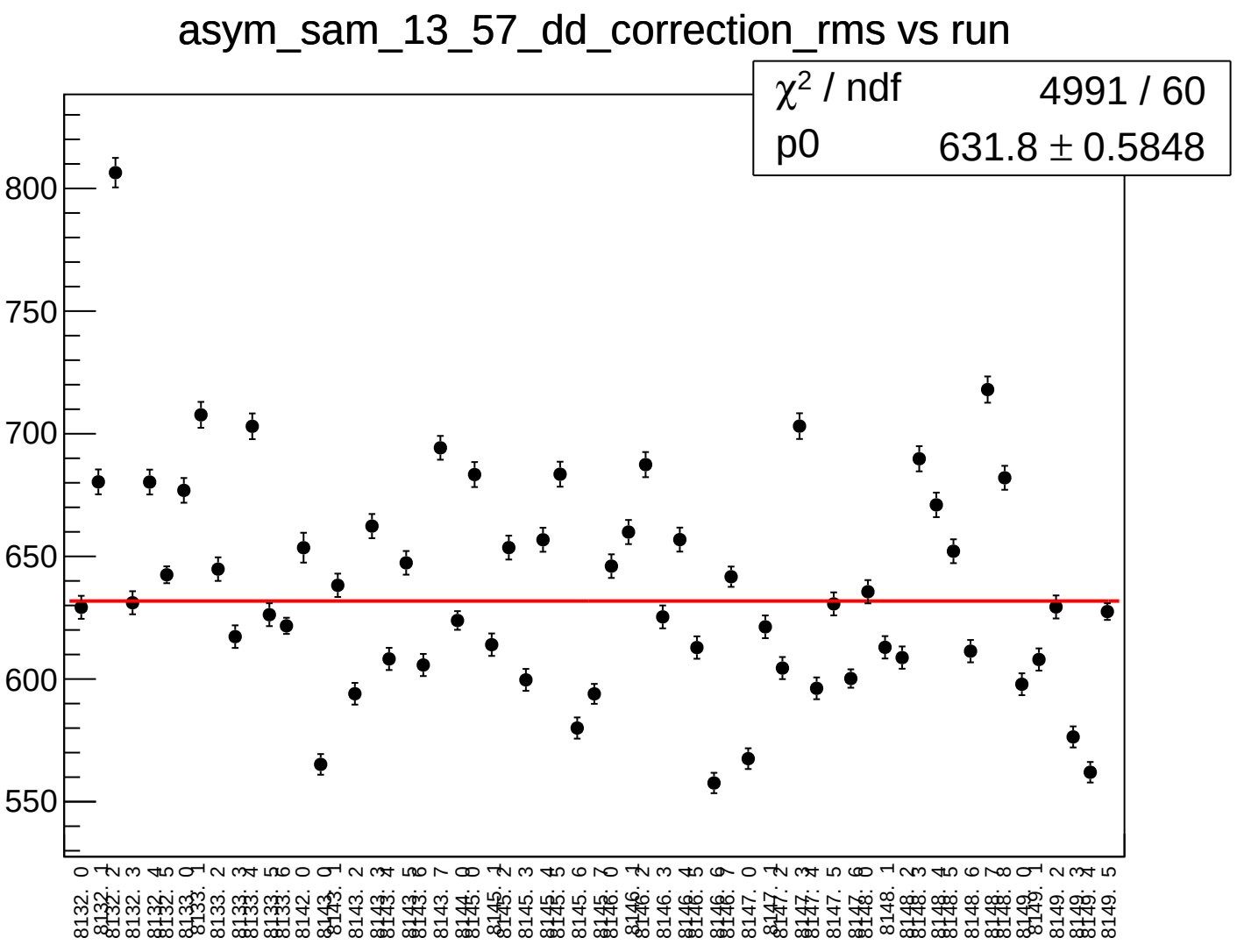

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 80.52 / 60
p0 1.99 ± 78.58
pull
Entries 61
Mean −701.9
Std Dev 734.2

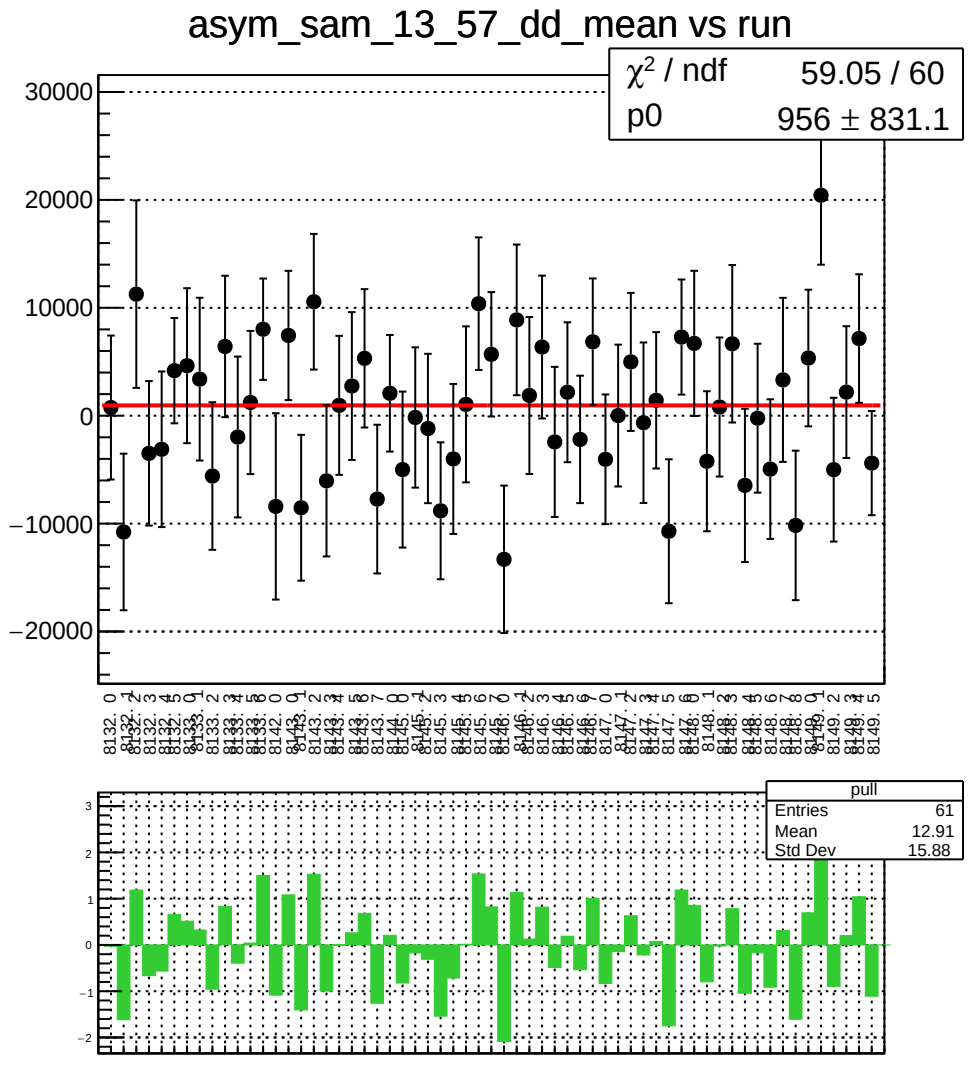

pull1D
Entries 61
Mean −0.004686
Std Dev 1.149

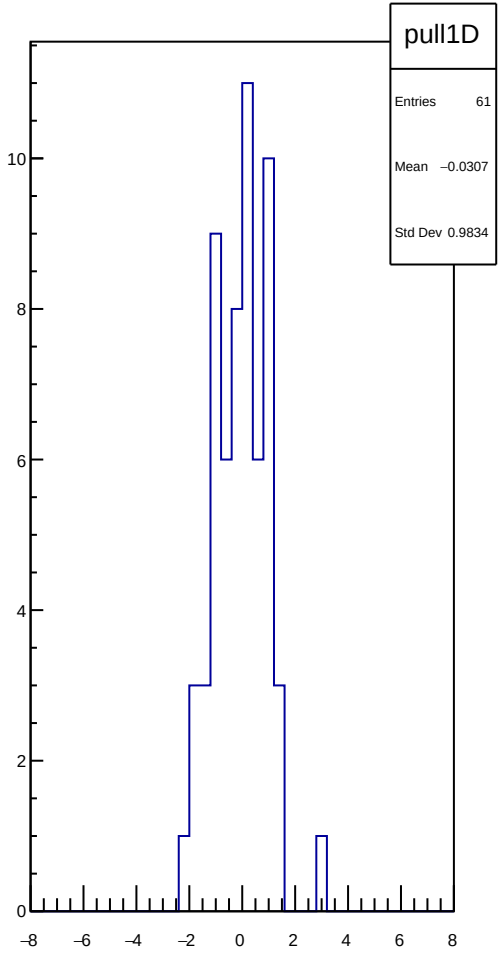

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.573e+04 / 60
p0 59.49 ± 0.05556
180
160
140
120
100
80
60

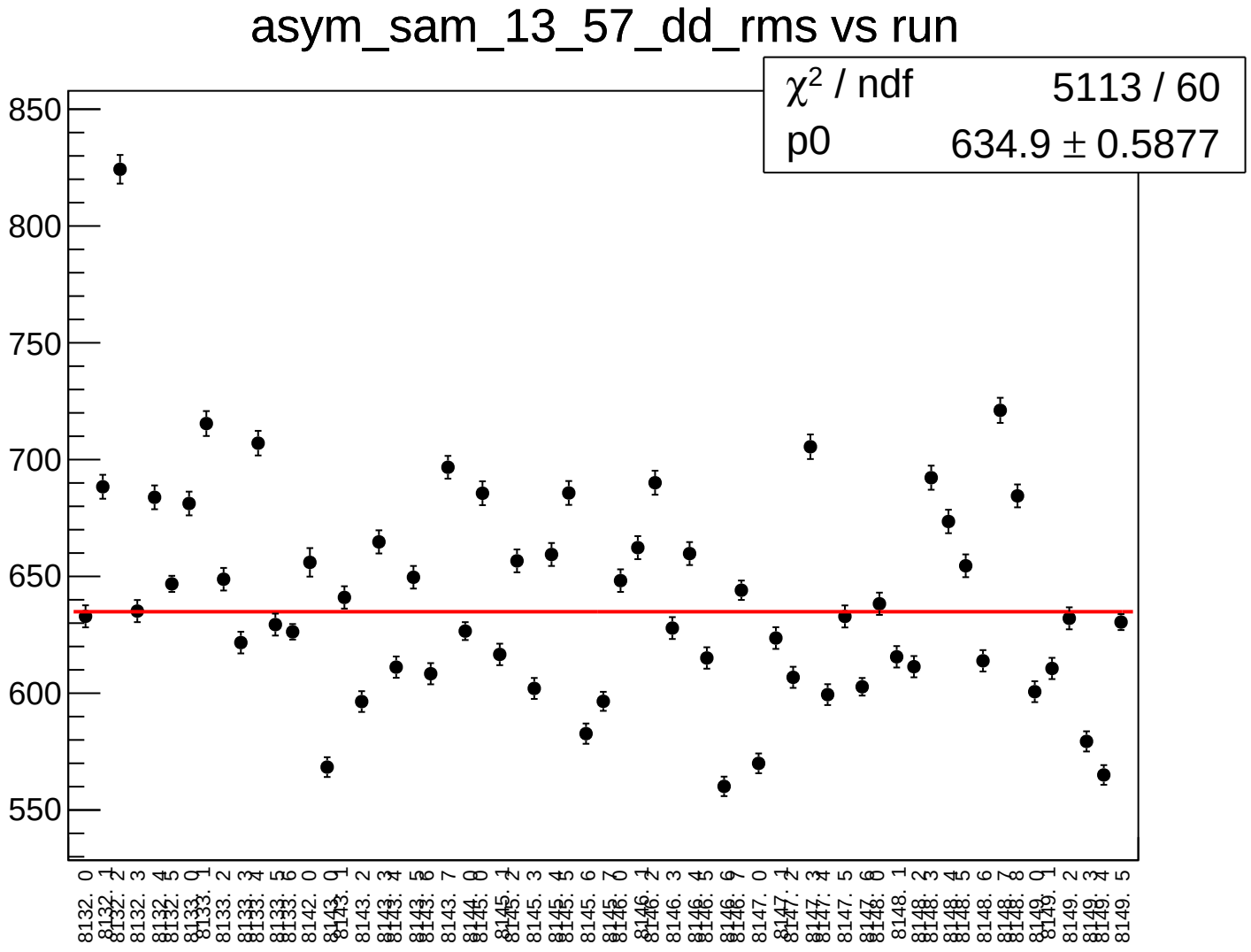

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 61.93 / 60
p0 −976.2 ± 827
pull
Entries 61
Mean 24.13
Std Dev 5.077

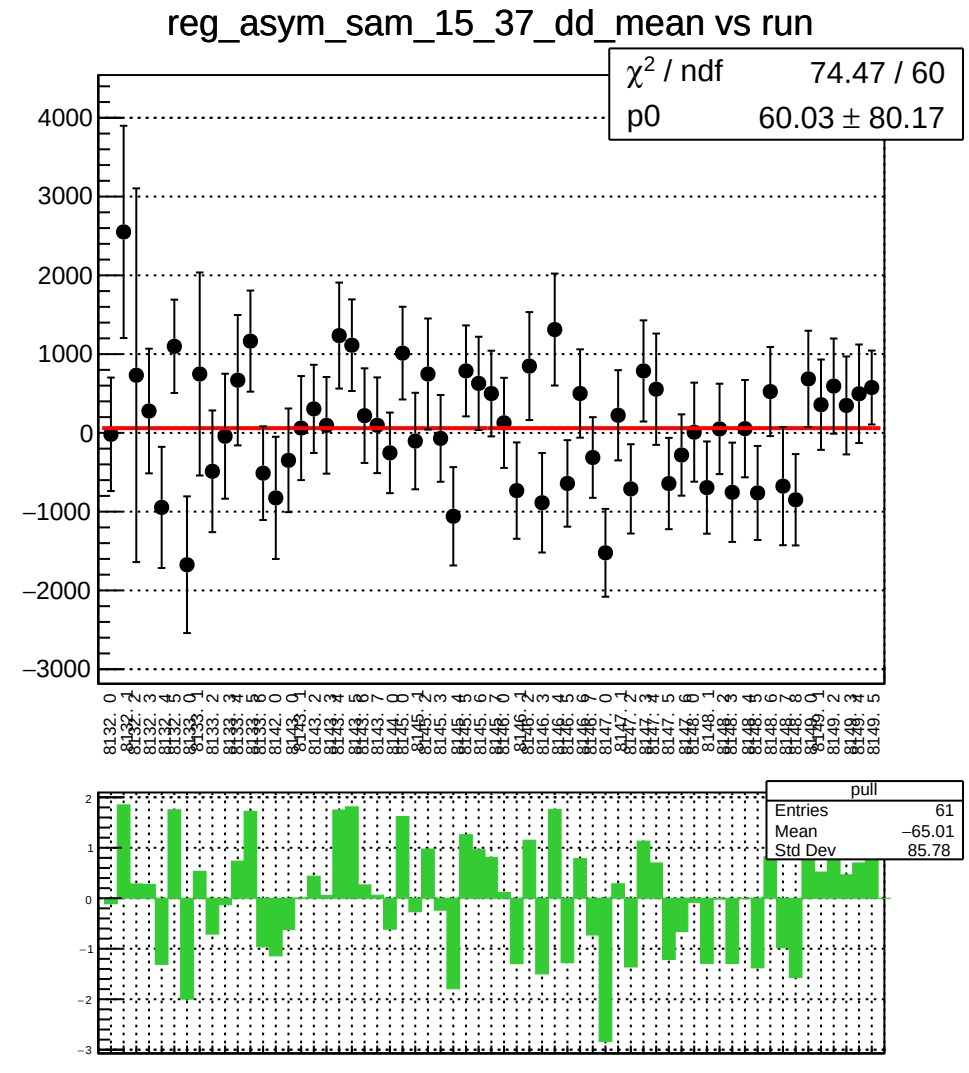

pull1D
Entries 61
Mean 0.03146
Std Dev 1.007

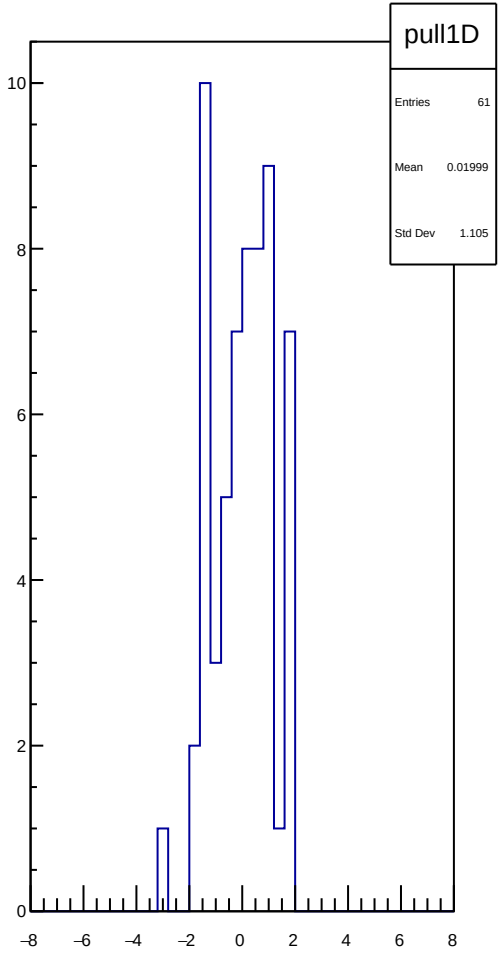

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 4991 / 60
p0 631.8 ± 0.5848
800
750
700
650
600
550

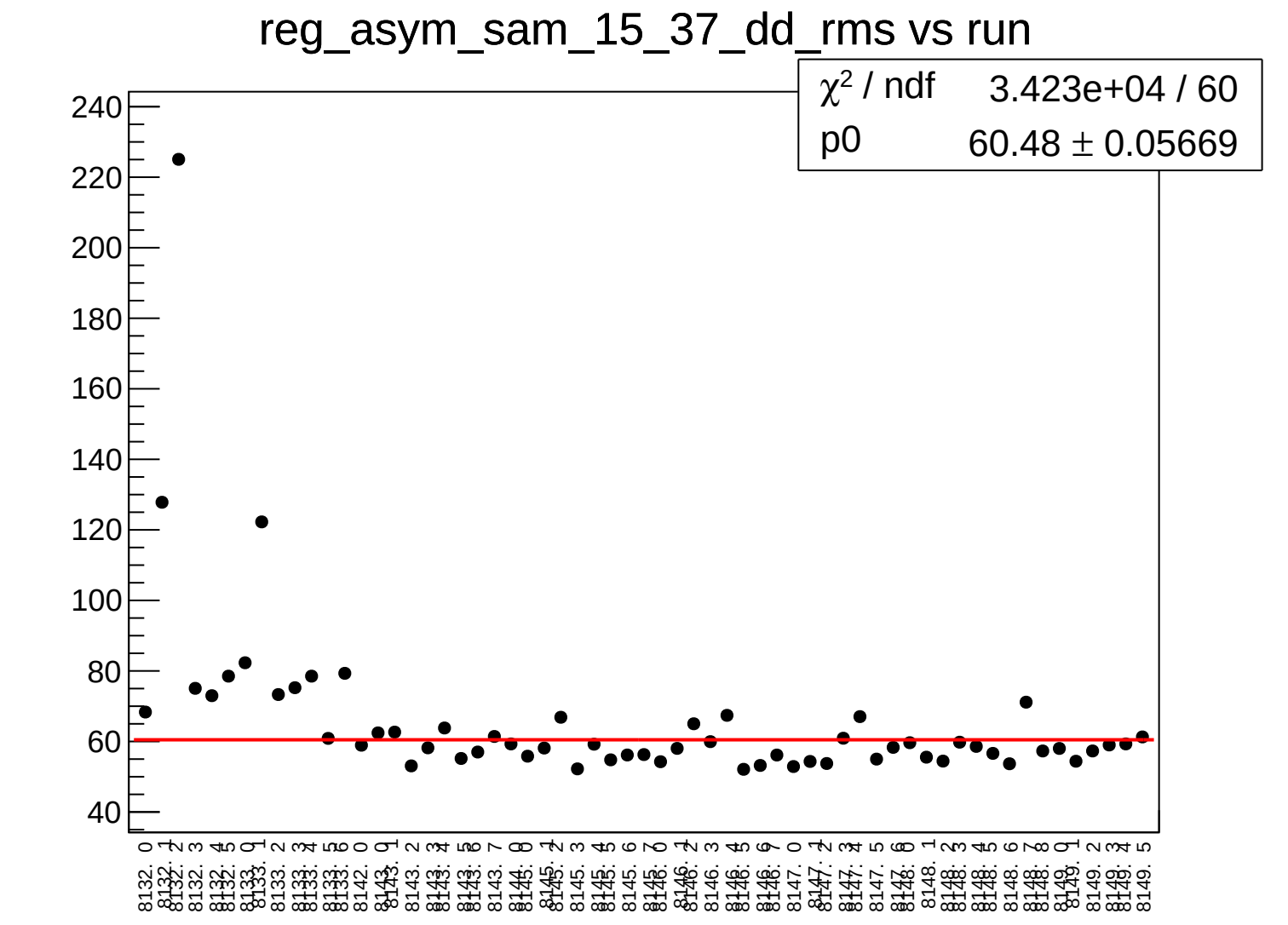

asym_sam_13_57_dd_mean vs run
χ² / ndf 59.05 / 60
p0 956 ± 831.1
30000
20000
10000
0
−10000
−20000
pull
Entries 61
Mean 12.91
Std Dev 15.88
3
2
1
0
−1
−2

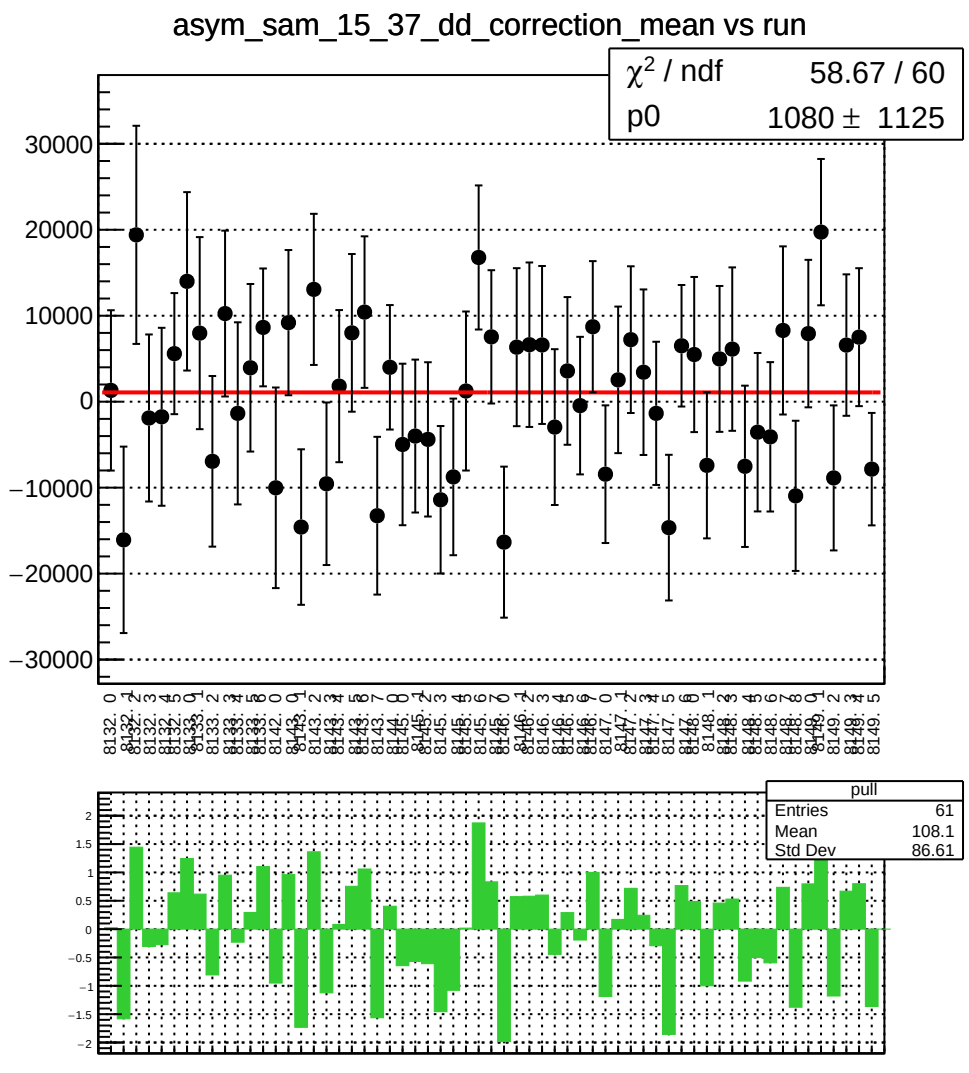

pull1D
Entries 61
Mean −0.0307
Std Dev 0.9834
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

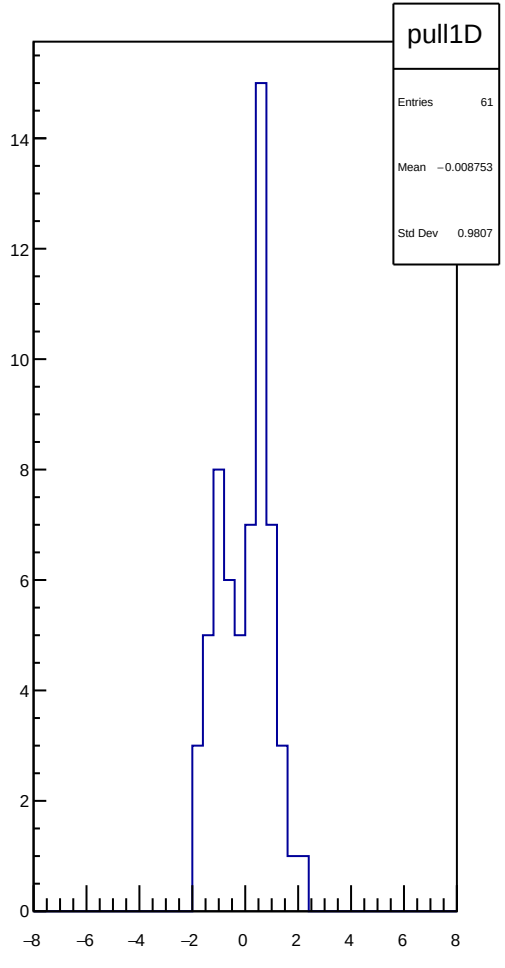

asym_sam_13_57_dd_rms vs run
χ² / ndf 5113 / 60
p0 634.9 ± 0.5877
850
800
750
700
650
600
550

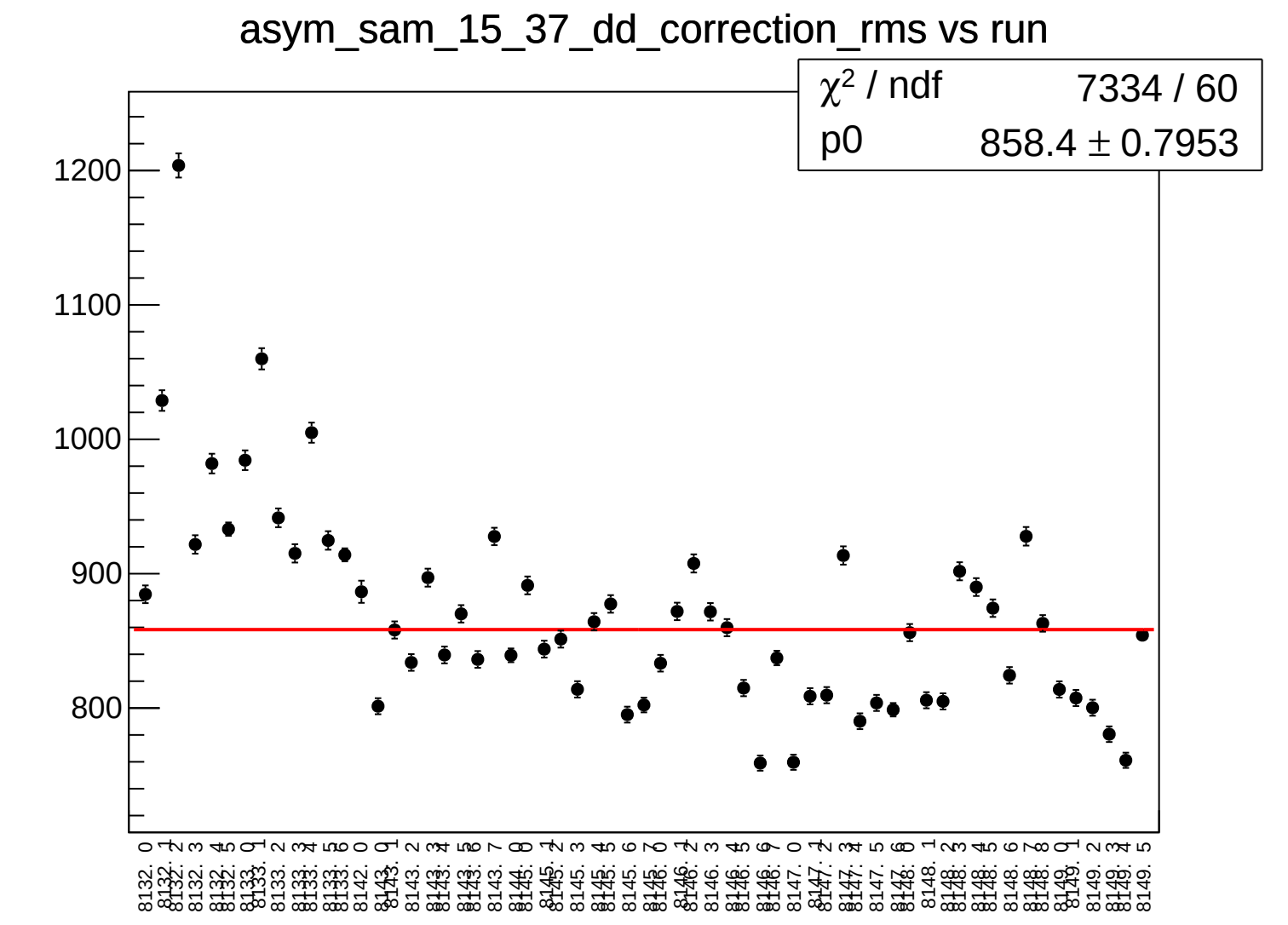

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 74.47 / 60
p0 60.03 ± 80.17
pull
Entries 61
Mean −65.01
Std Dev 85.78

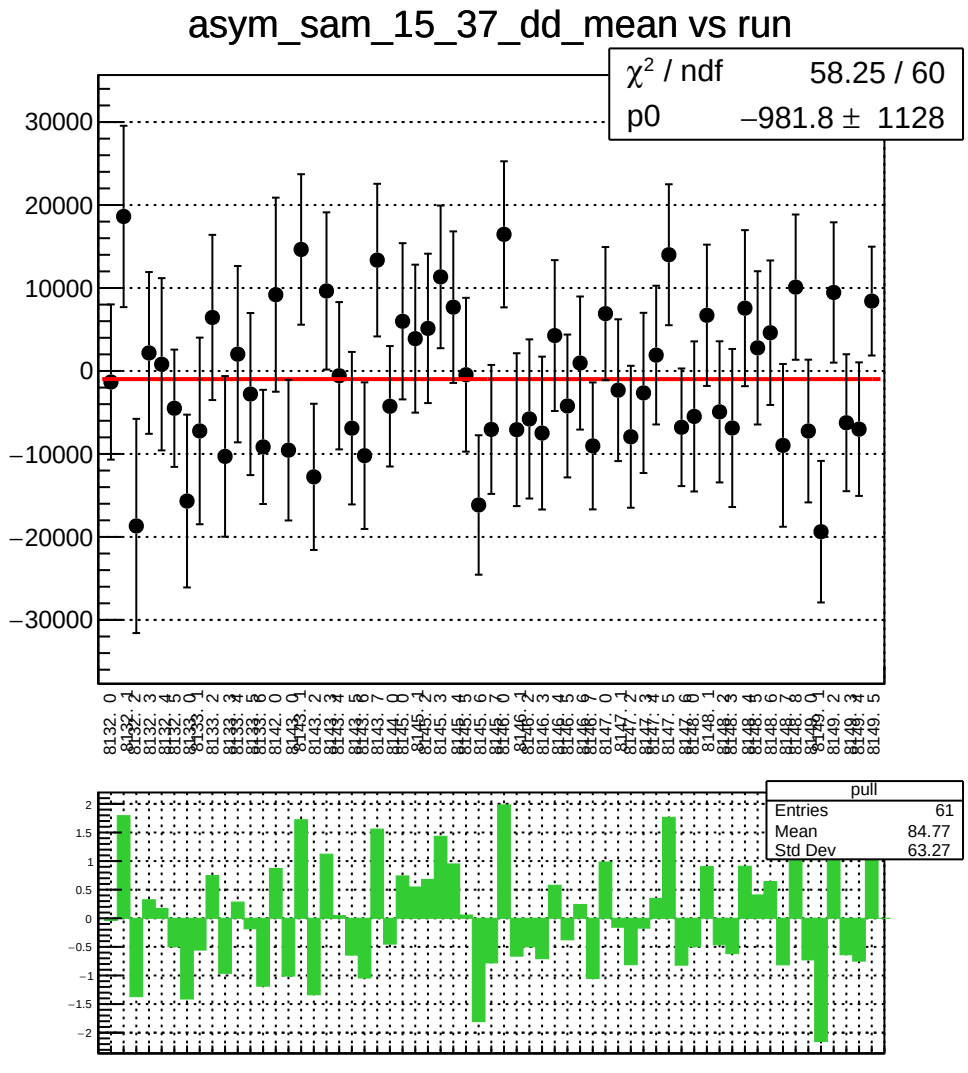

pull1D
Entries 61
Mean 0.01999
Std Dev 1.105

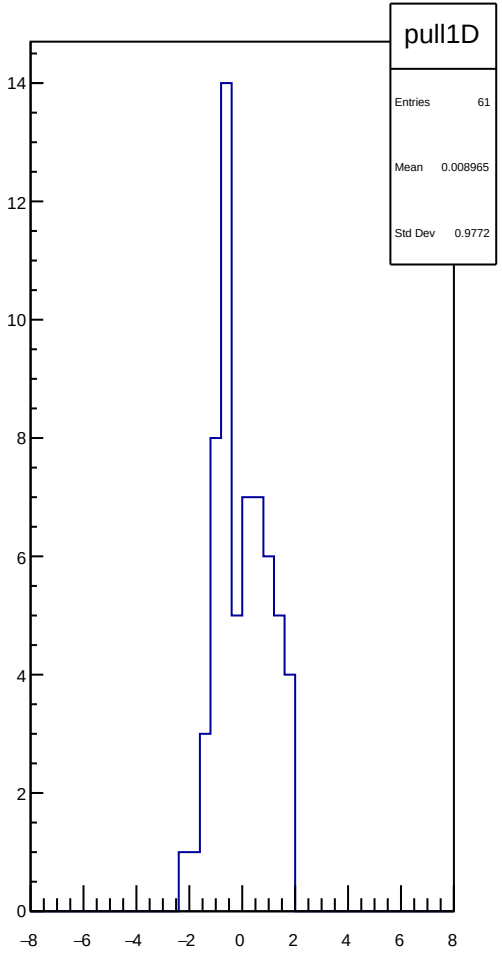

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.423e+04 / 60
p0 60.48 ± 0.05669
240
220
200
180
160
140
120
100
80
60
40

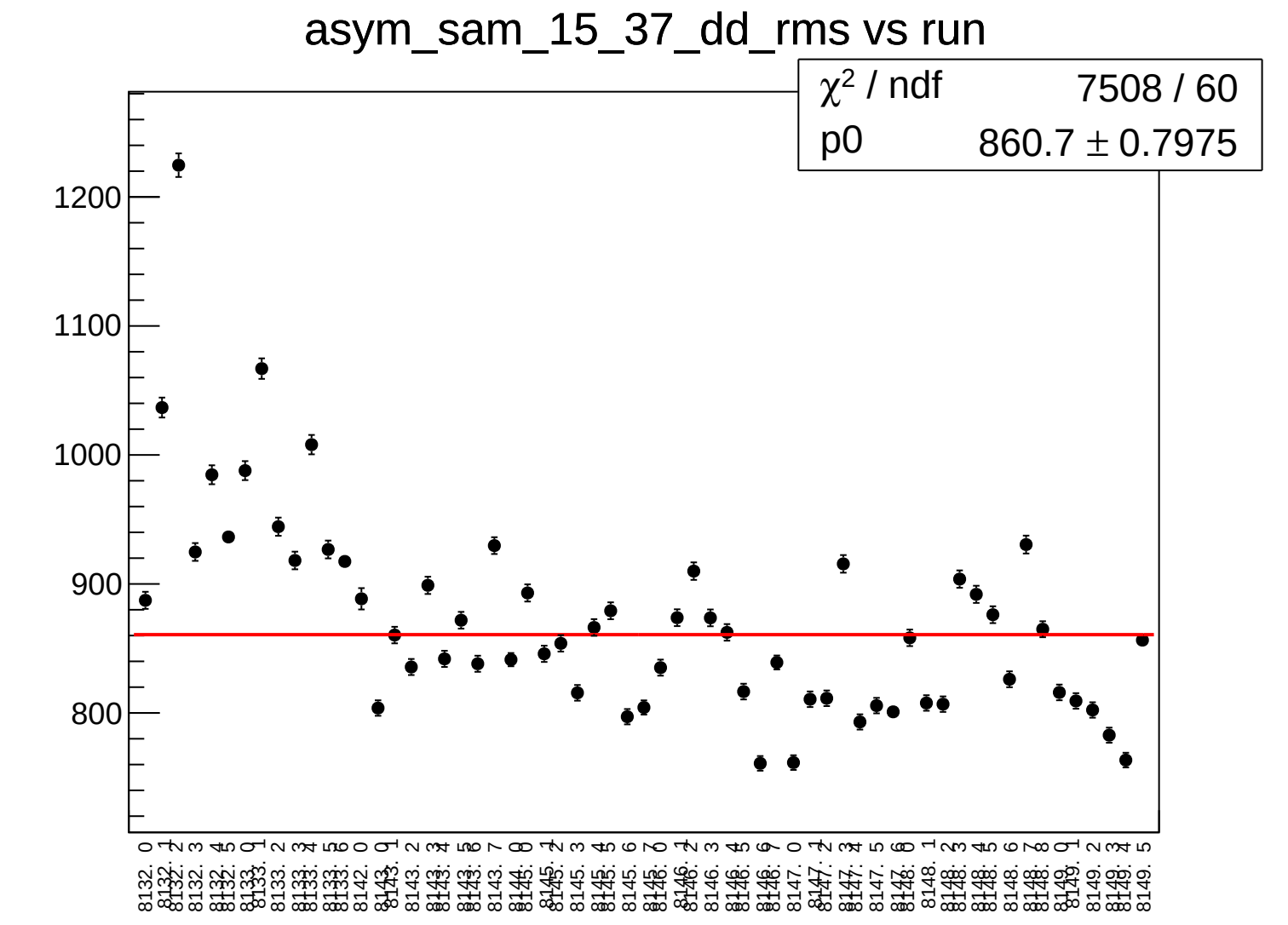

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 58.67 / 60
p0 1080 ± 1125
pull
Entries 61
Mean 108.1
Std Dev 86.61

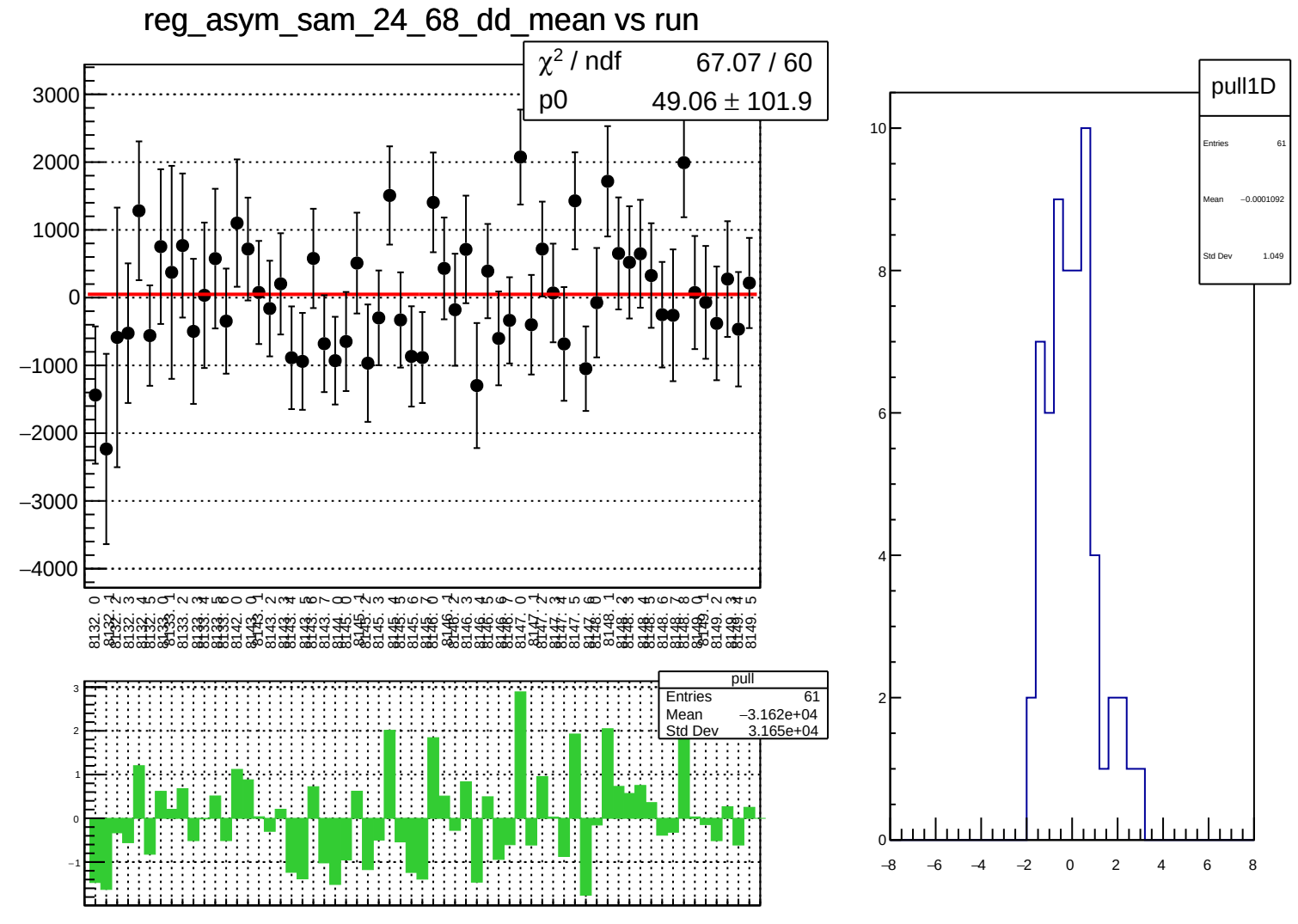

pull1D
Entries 61
Mean −0.008753
Std Dev 0.9807

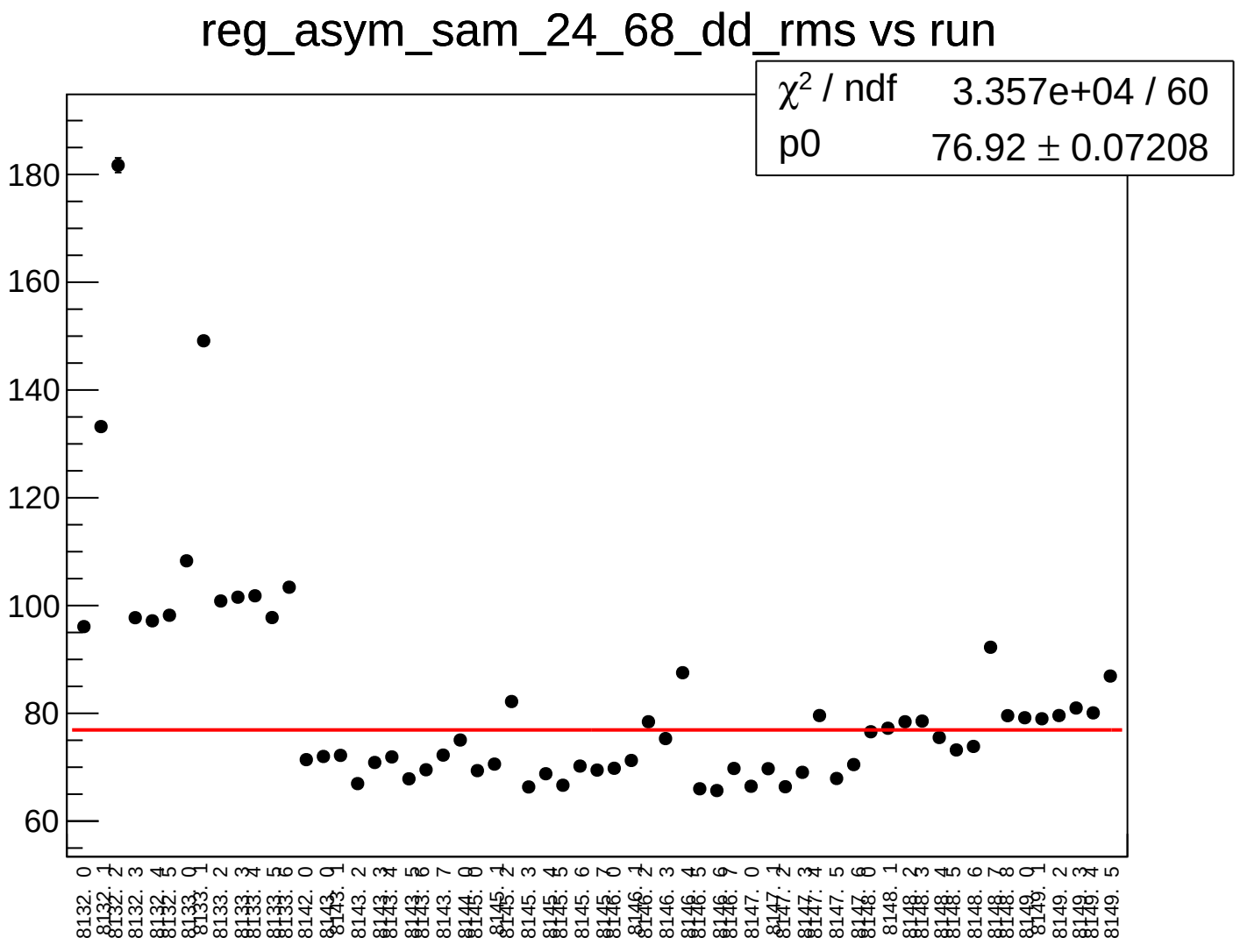

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 7334 / 60
p0 858.4 ± 0.7953
1200
1100
1000
900
800

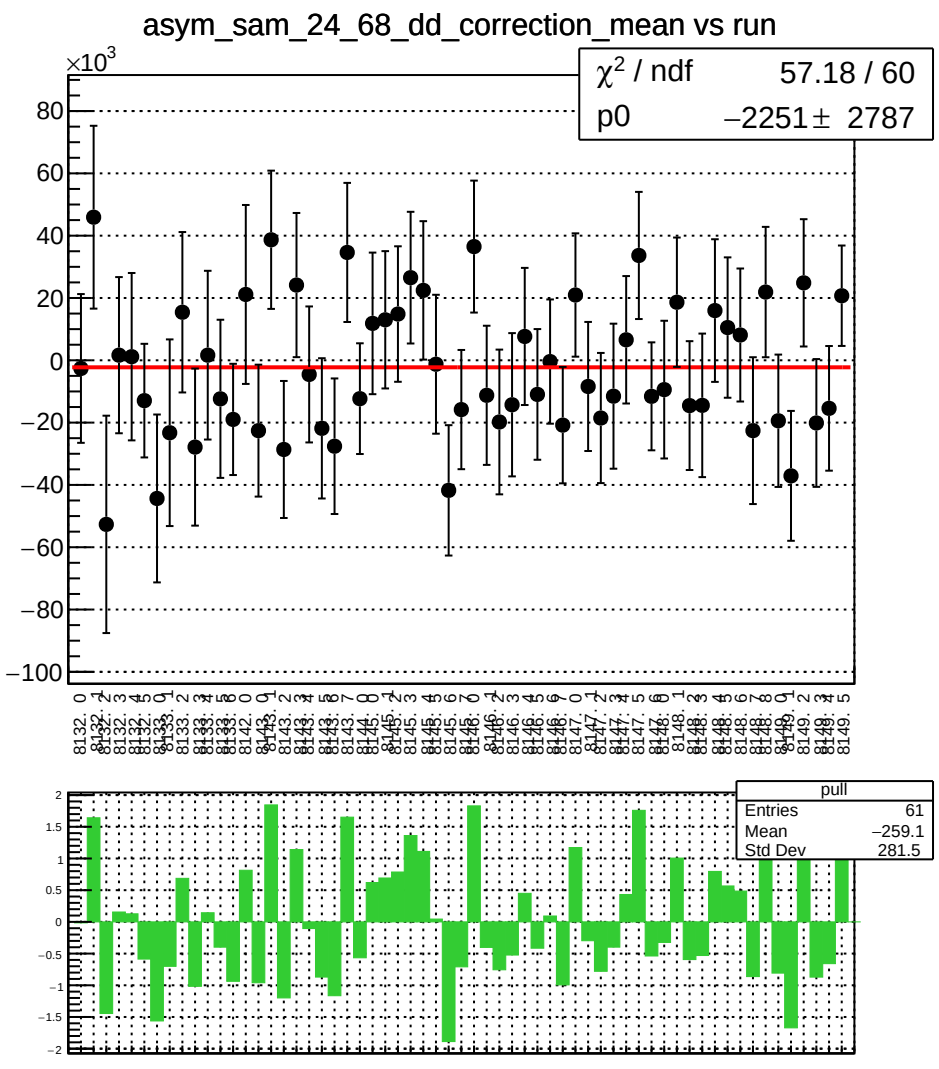

asym_sam_15_37_dd_mean vs run
χ² / ndf 58.25 / 60
p0 −981.8 ± 1128
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 61
Mean 84.77
Std Dev 63.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

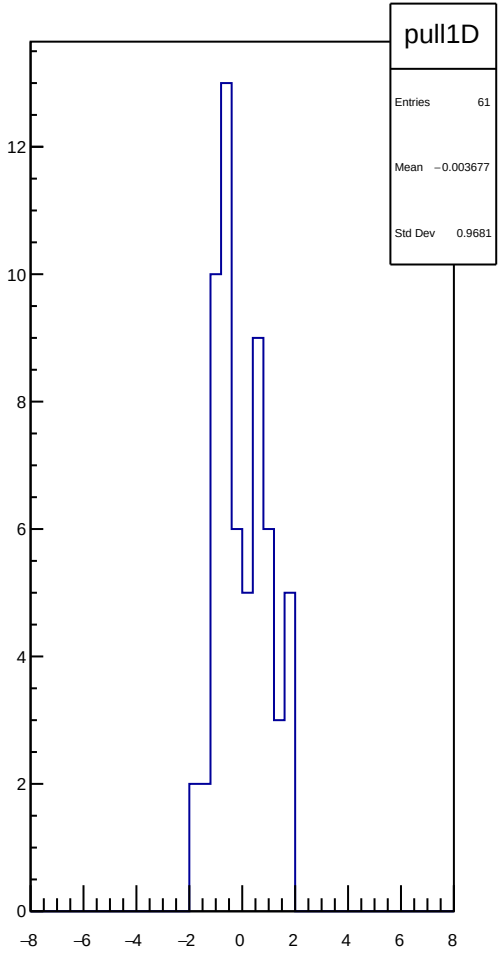

pull1D
Entries 61
Mean 0.008965
Std Dev 0.9772
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

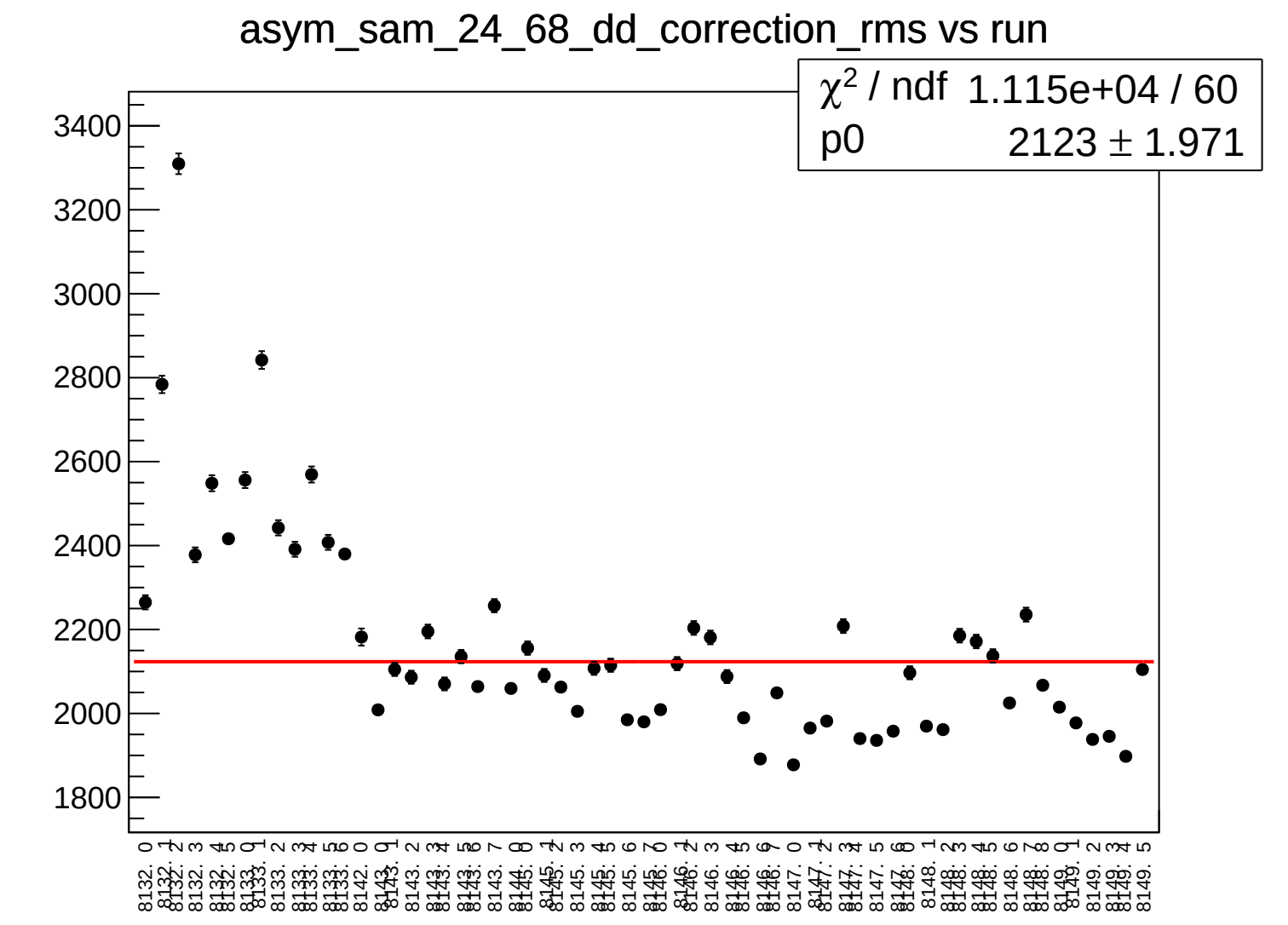

asym_sam_15_37_dd_rms vs run
χ² / ndf 7508 / 60
p0 860.7 ± 0.7975
1200
1100
1000
900
800

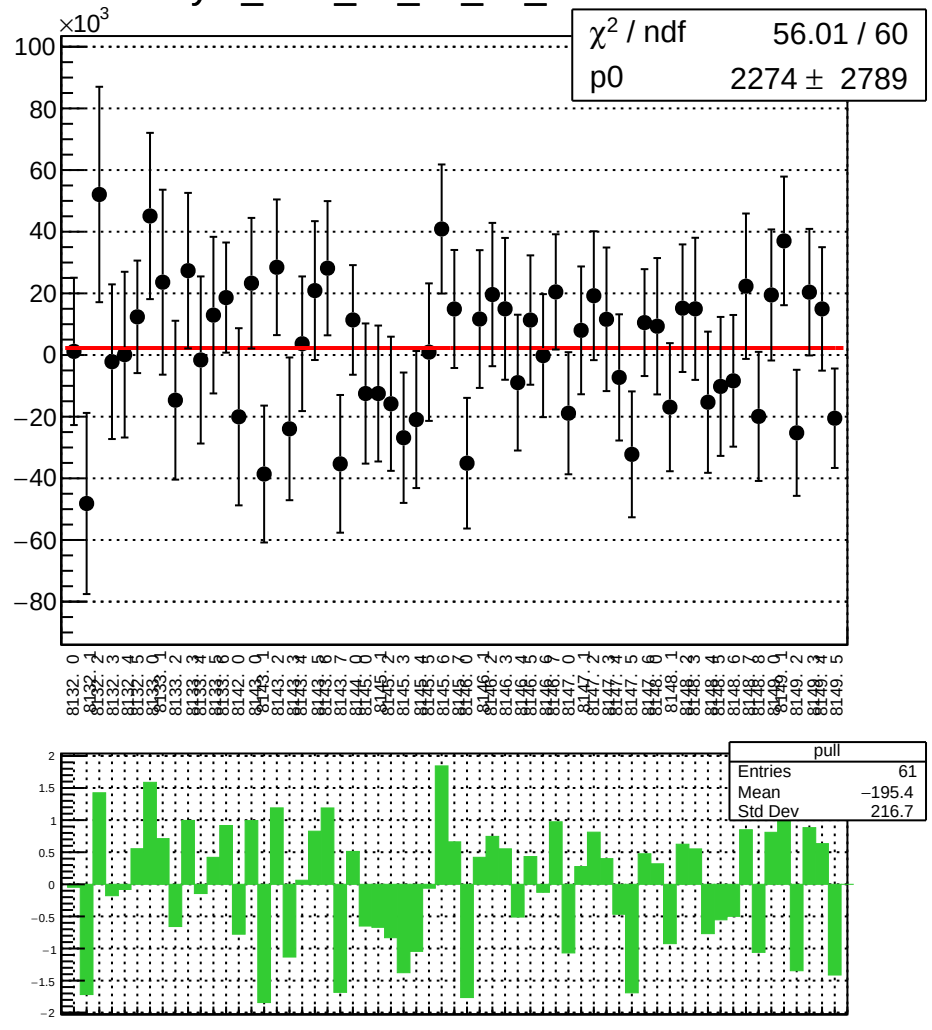

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 67.07 / 60
p0 49.06 ± 101.9
pull
Entries 61
Mean −3.162e+04
Std Dev 3.165e+04
pull1D
Entries 61
Mean −0.0001092
Std Dev 1.049

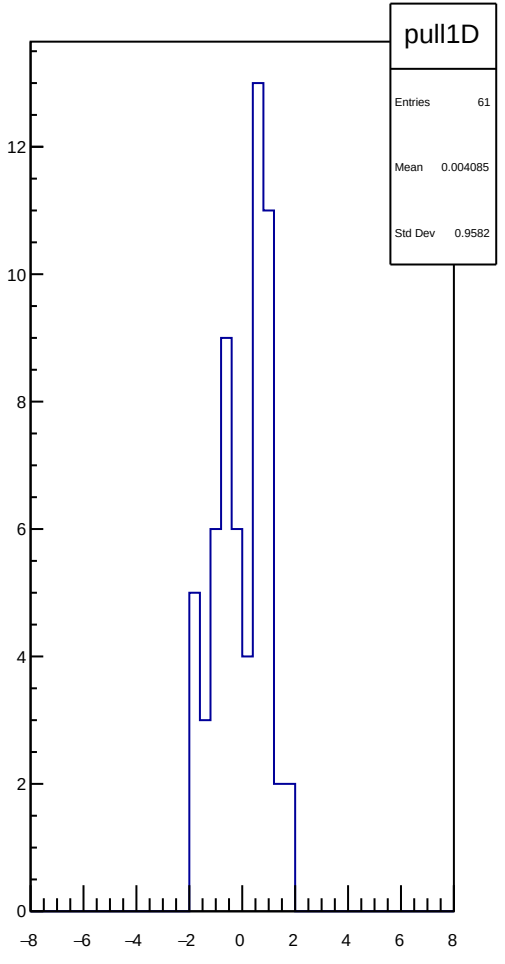

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 3.357e+04 / 60
p0 76.92 ± 0.07208
180
160
140
120
100
80
60

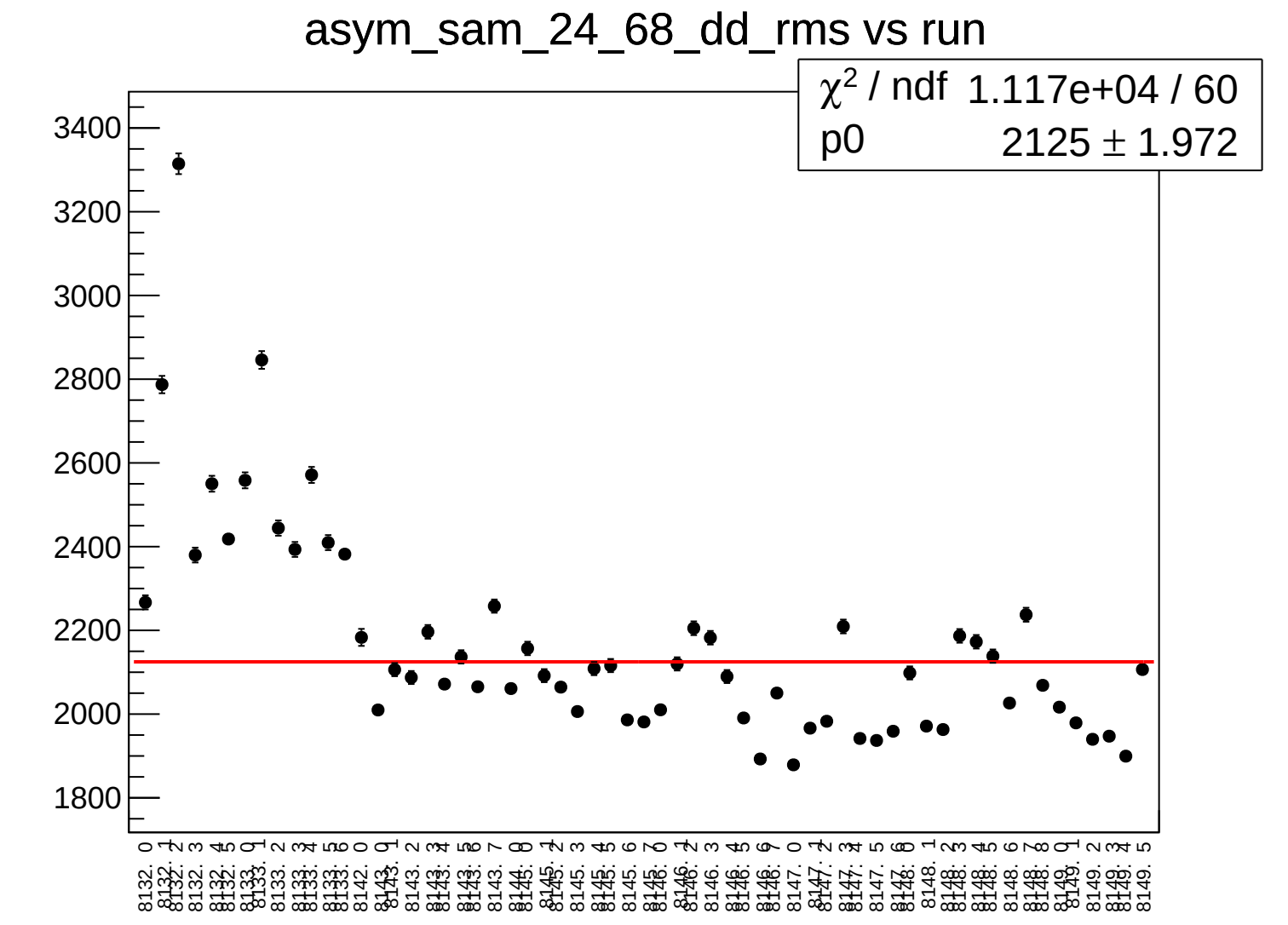

asym_sam_24_68_dd_correction_mean vs run
×10^3
χ^2 / ndf 57.18 / 60
p0 −2251 ± 2787
pull
Entries 61
Mean −259.1
Std Dev 281.5

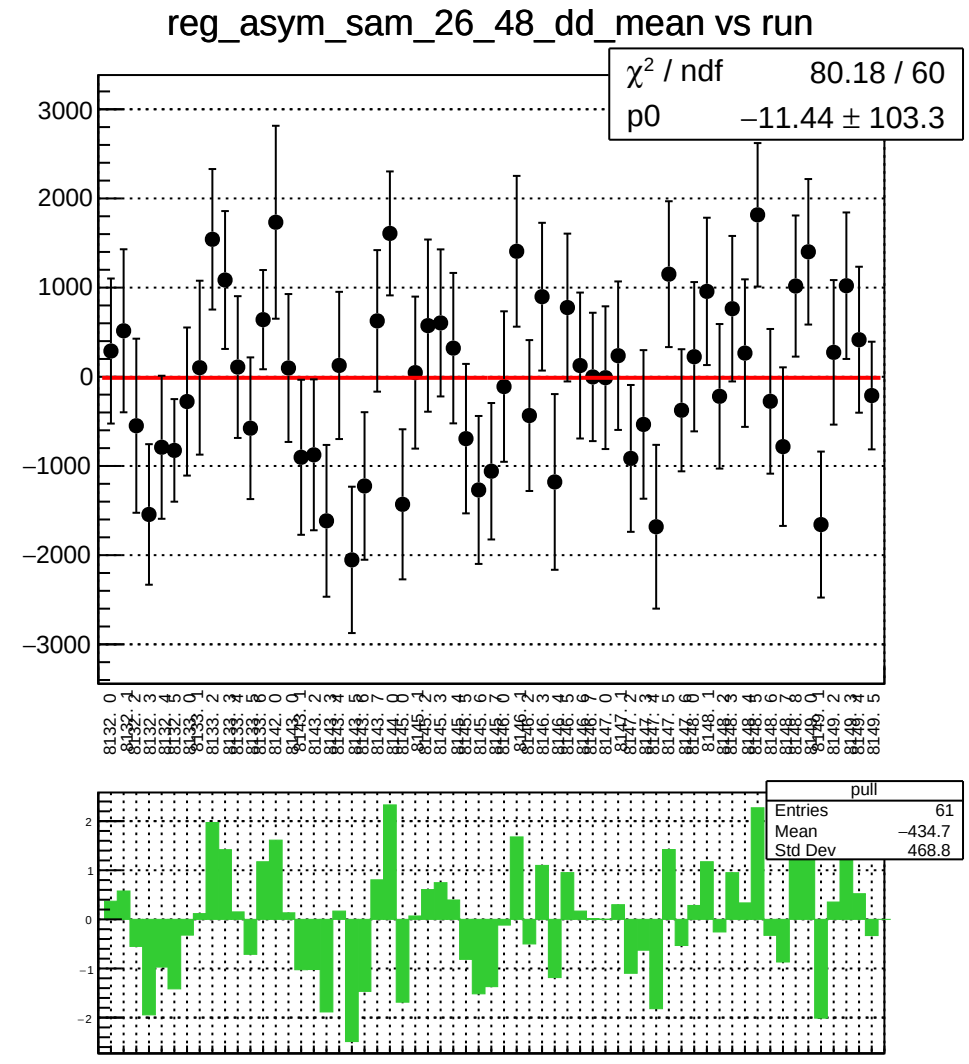

pull1D
Entries 61
Mean −0.003677
Std Dev 0.9681

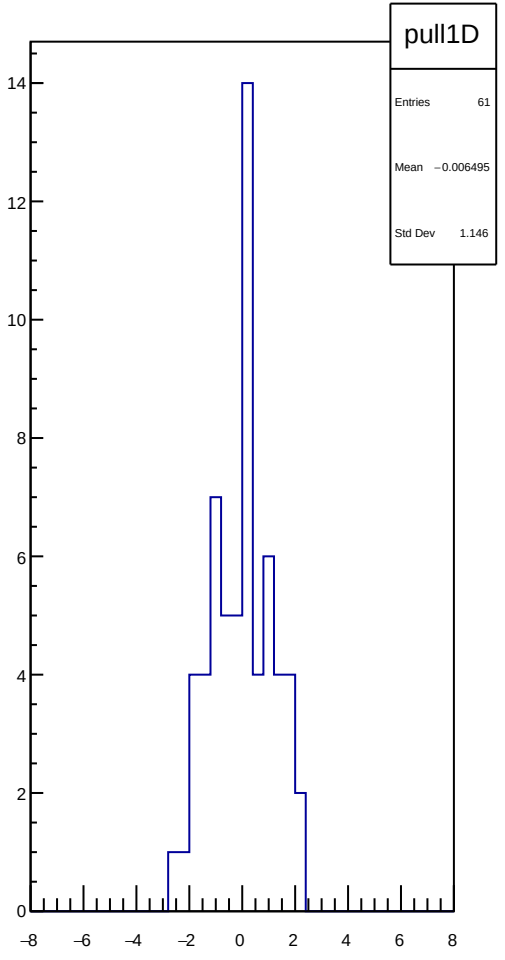

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 1.115e+04 / 60
p0 2123 ± 1.971
3400
3200
3000
2800
2600
2400
2200
2000
1800

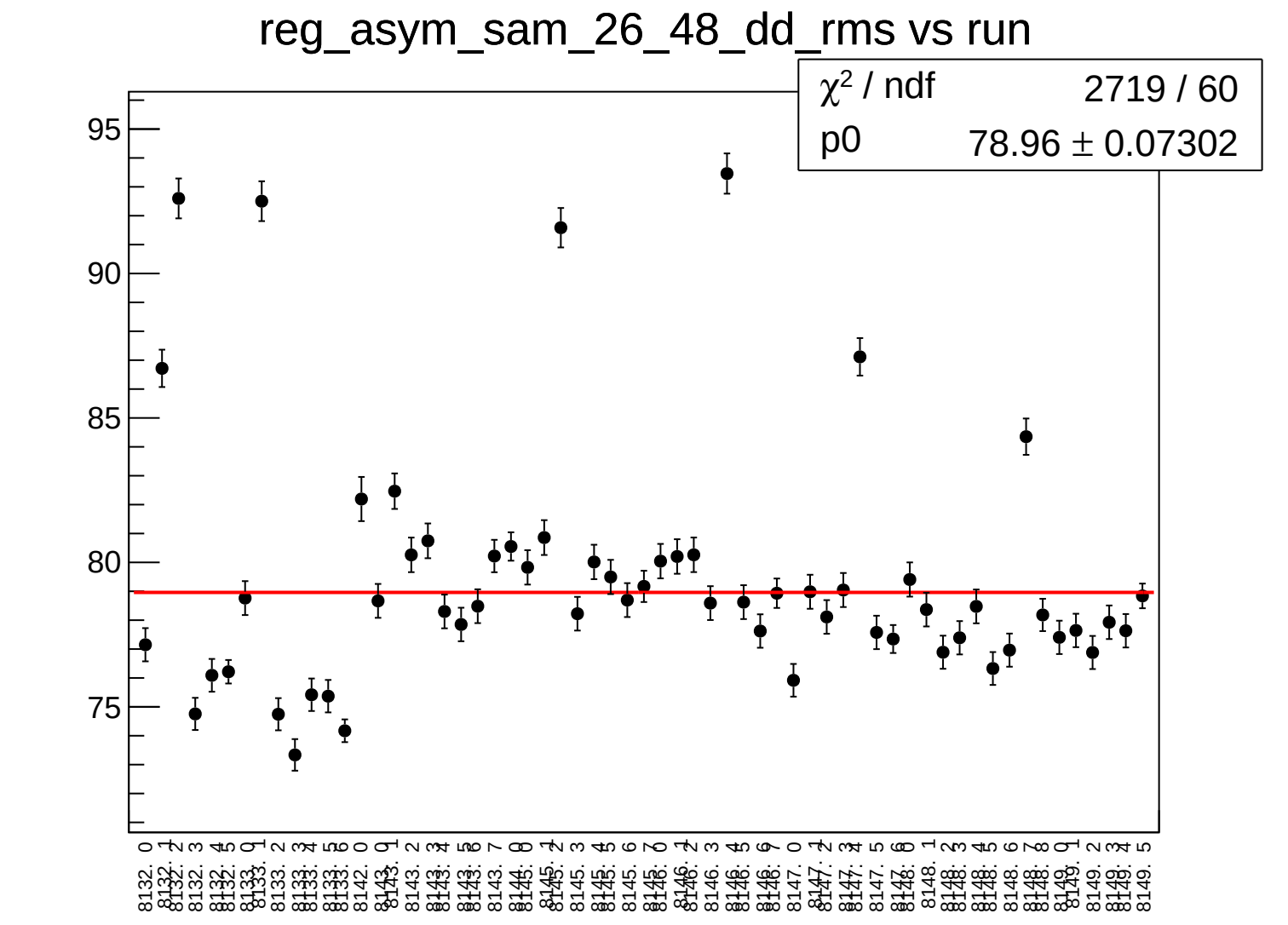

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 56.01 / 60
p0 2274 ± 2789
pull
Entries 61
Mean −195.4
Std Dev 216.7

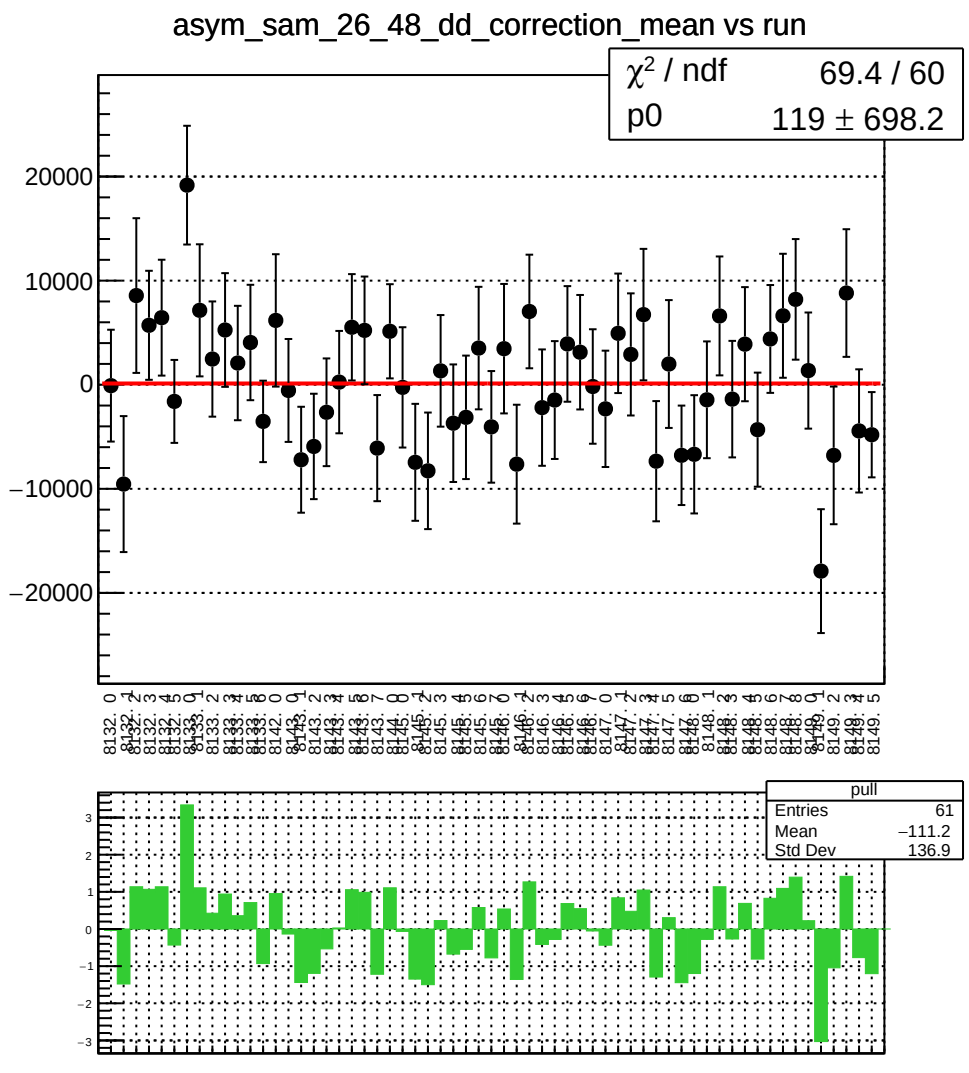

pull1D
Entries 61
Mean 0.004085
Std Dev 0.9582

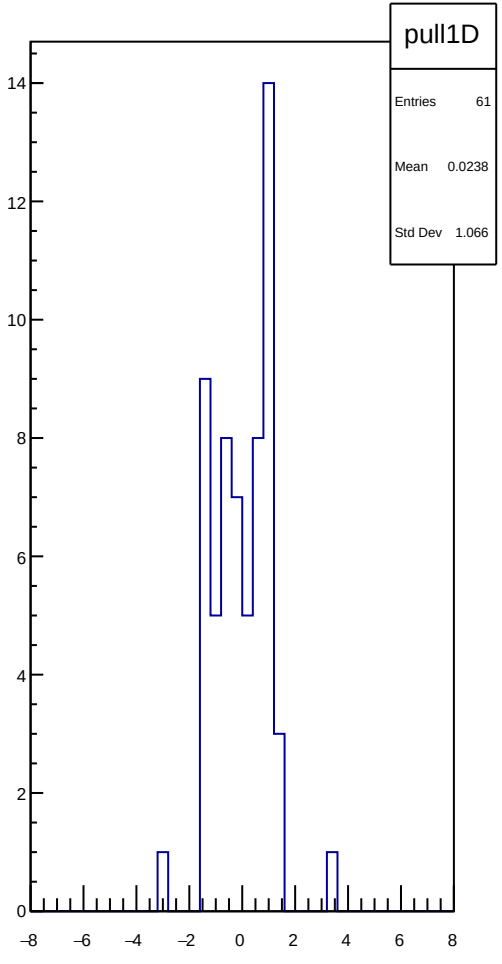

asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1.117e+04 / 60
p0 2125 ± 1.972
3400
3200
3000
2800
2600
2400
2200
2000
1800

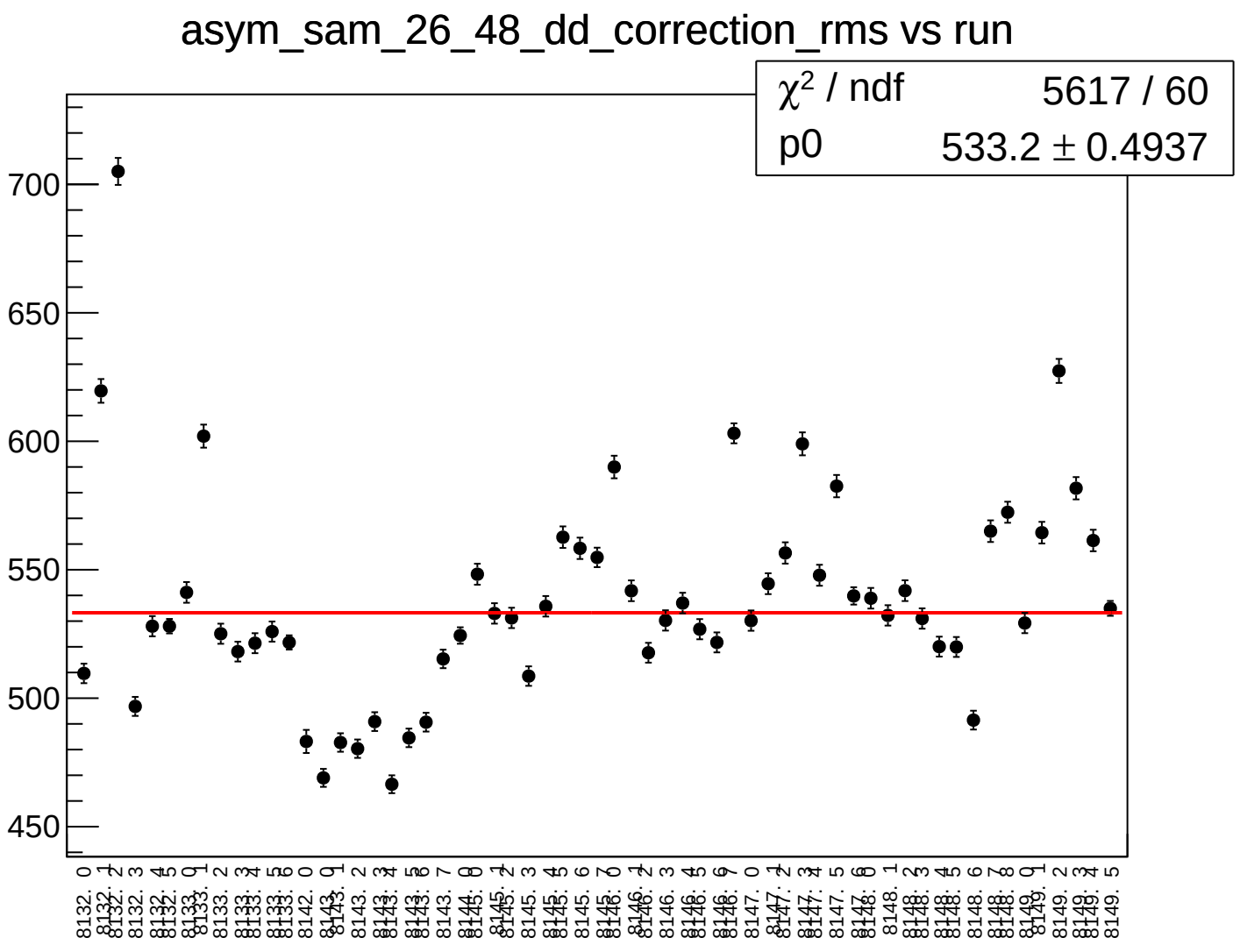

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 80.18 / 60
p0 −11.44 ± 103.3
pull
Entries 61
Mean −434.7
Std Dev 468.8

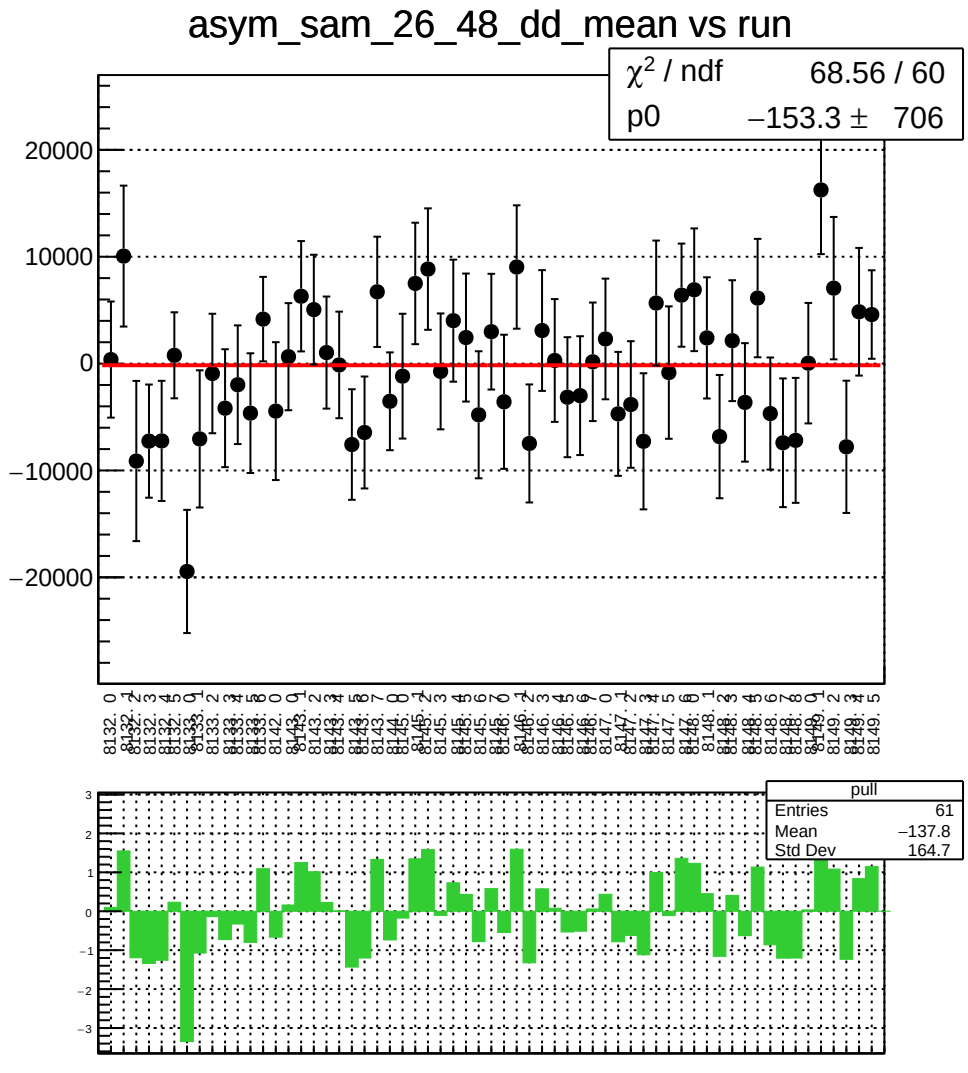

pull1D
Entries 61
Mean −0.006495
Std Dev 1.146

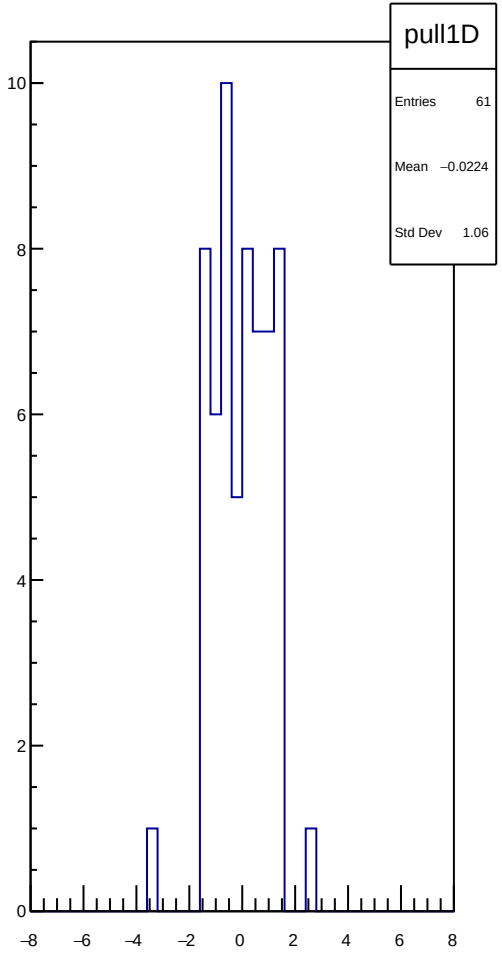

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 2719 / 60
p0 78.96 ± 0.07302
95
90
85
80
75

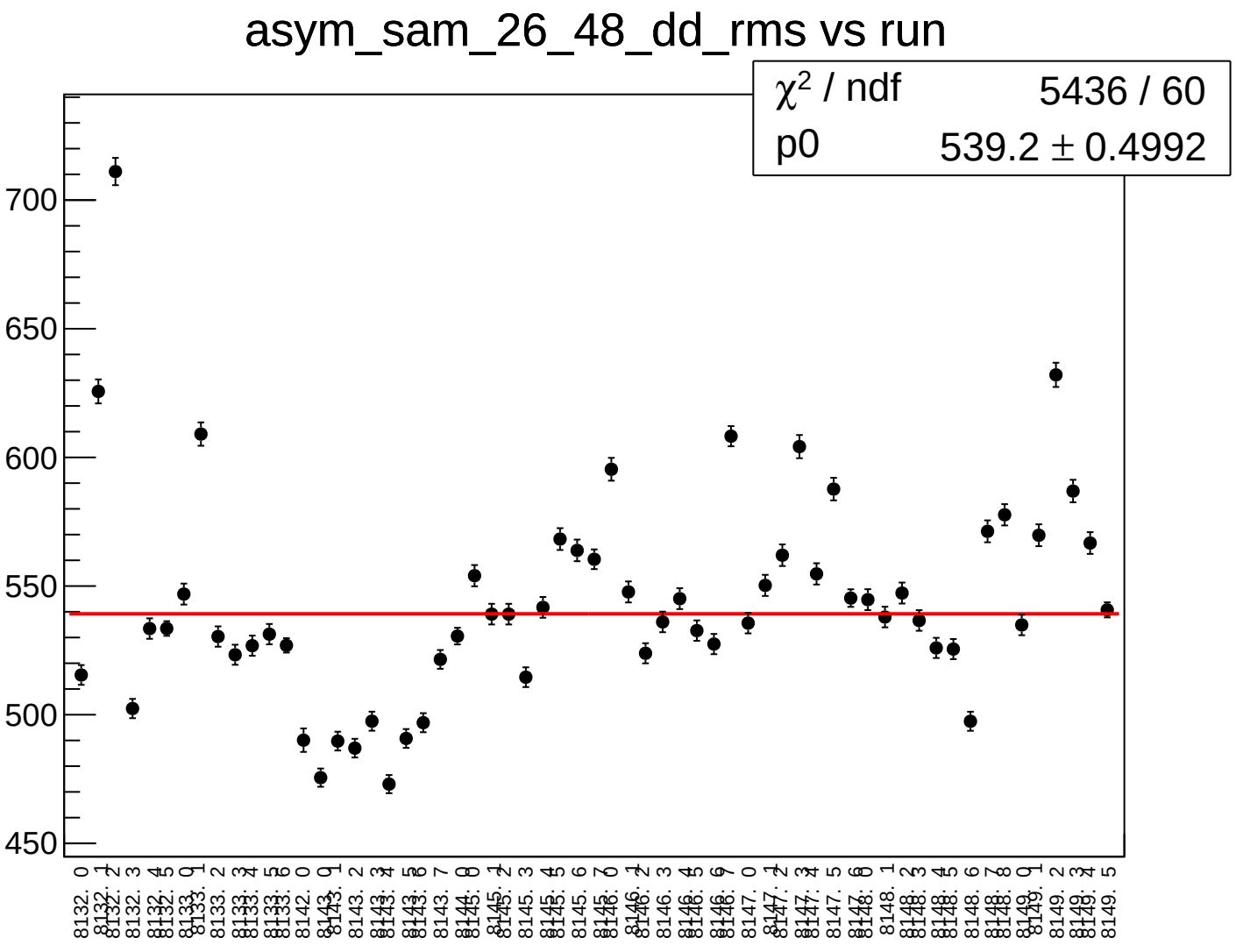

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 69.4 / 60
p0 119 ± 698.2
20000
10000
0
−10000
−20000
pull
Entries 61
Mean −111.2
Std Dev 136.9
3
2
1
0
−1
−2
−3

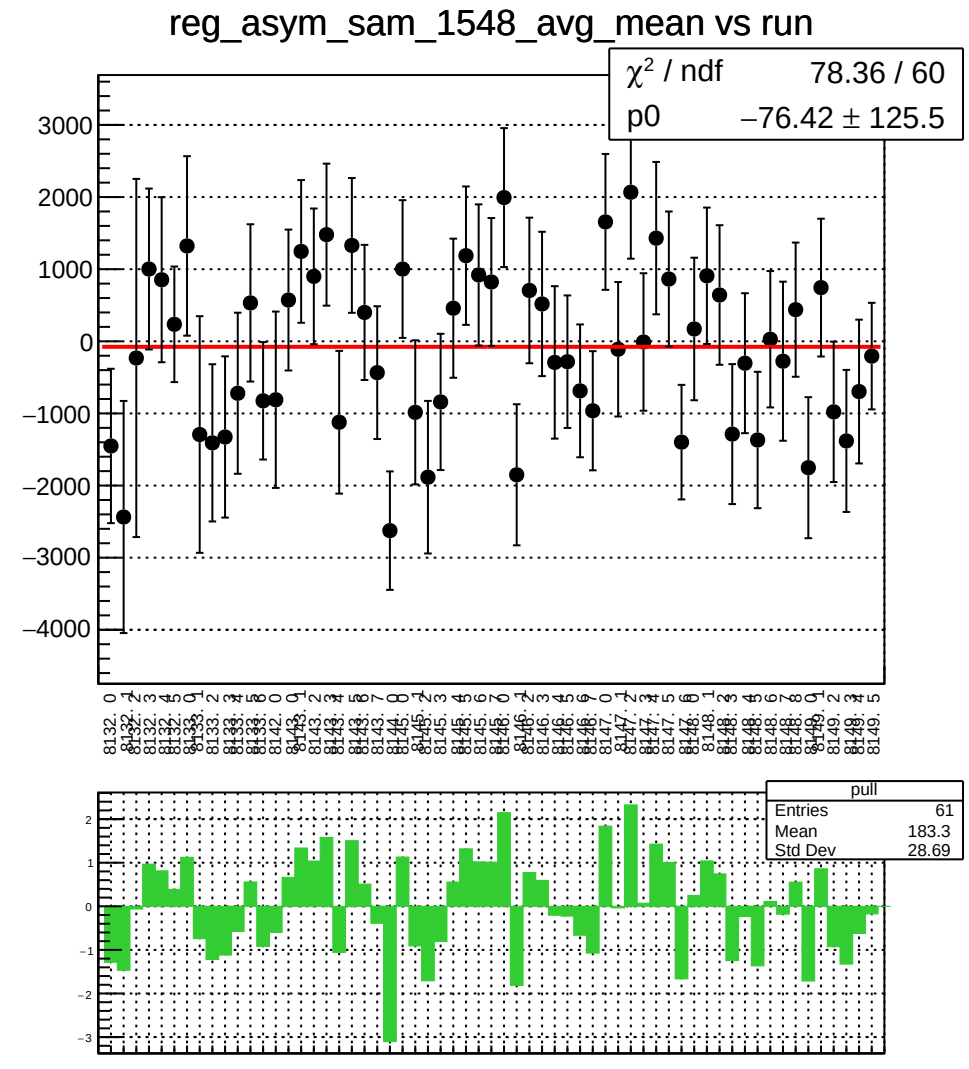

pull1D
Entries 61
Mean 0.0238
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

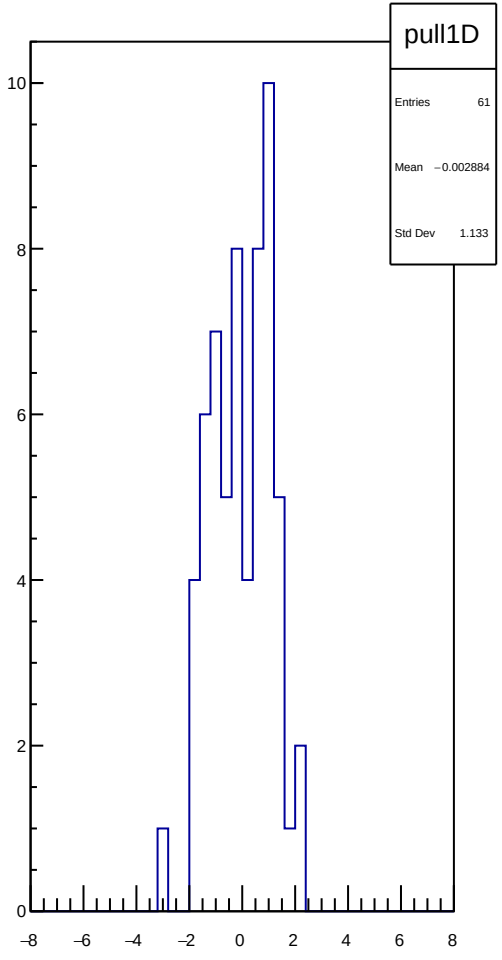

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 5617 / 60
p0 533.2 ± 0.4937
700
650
600
550
500
450

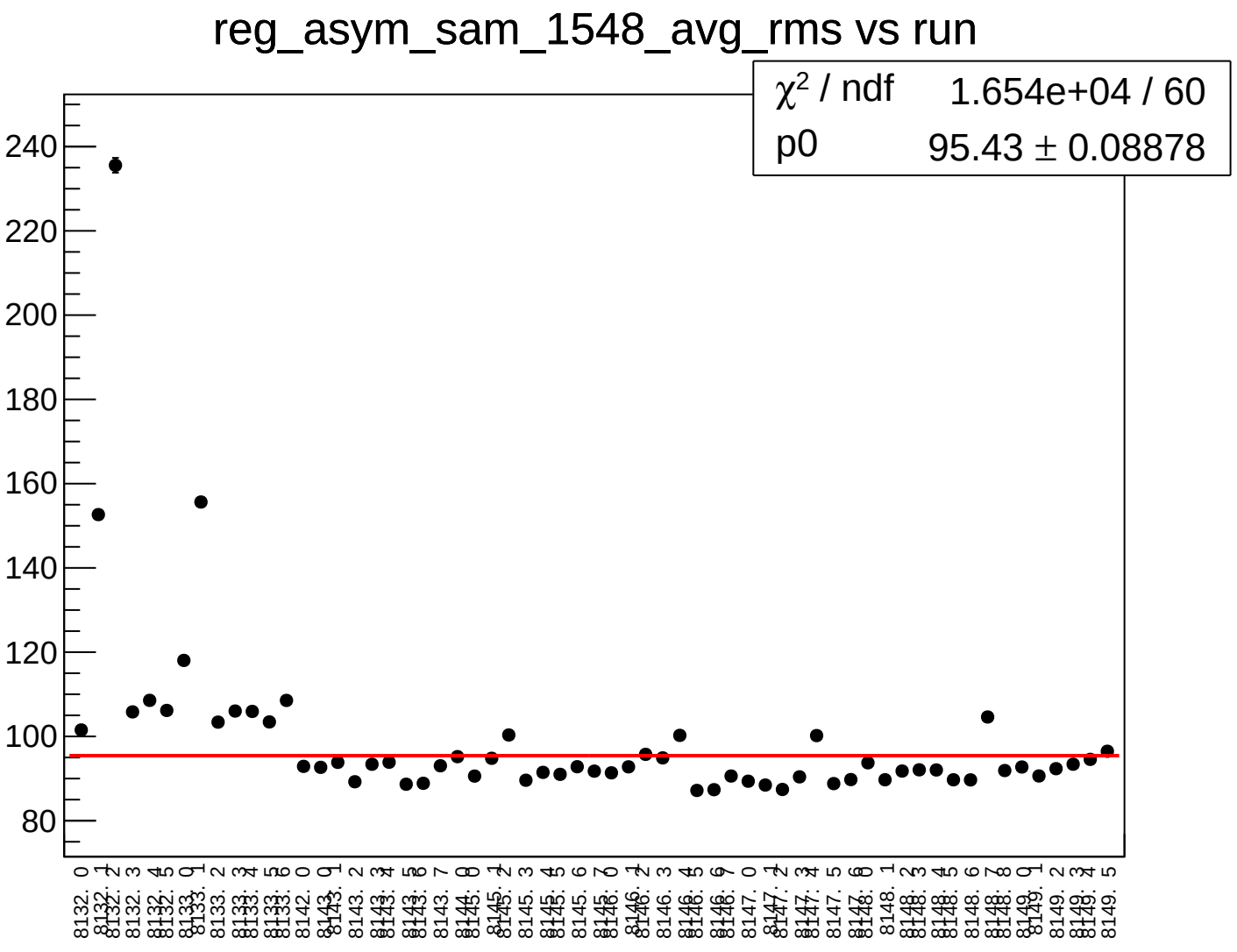

asym_sam_26_48_dd_mean vs run
χ² / ndf 68.56 / 60
p0 −153.3 ± 706
20000
10000
0
−10000
−20000
pull
Entries 61
Mean −137.8
Std Dev 164.7
3
2
1
0
−1
−2
−3

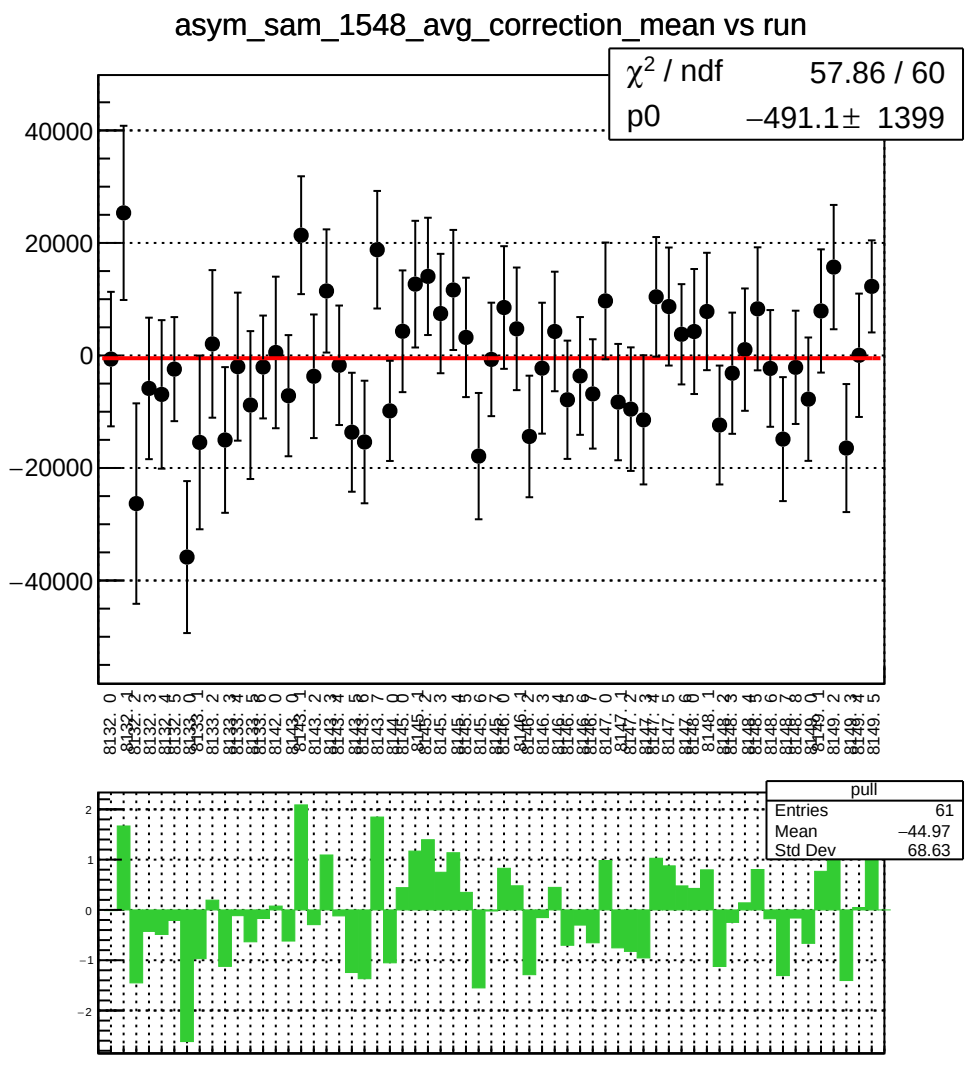

pull1D
Entries 61
Mean −0.0224
Std Dev 1.06
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

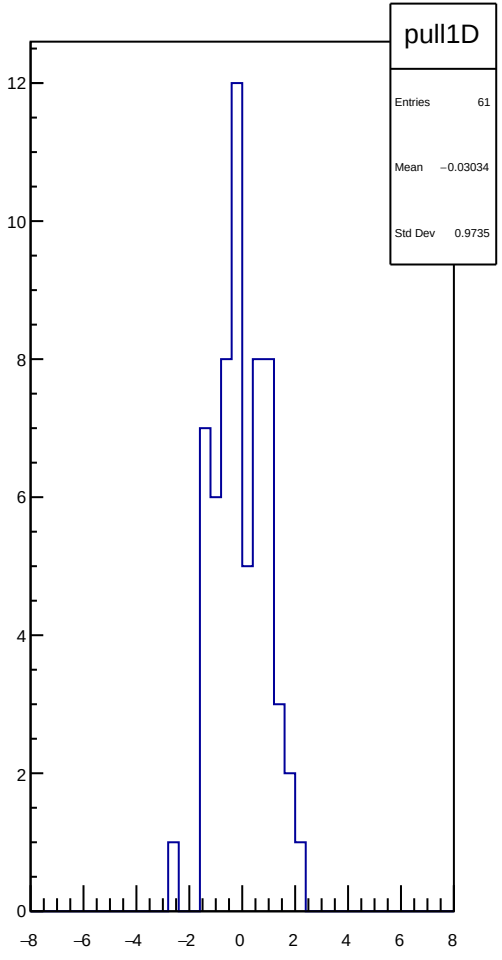

asym_sam_26_48_dd_rms vs run
χ² / ndf 5436 / 60
p0 539.2 ± 0.4992
700
650
600
550
500
450

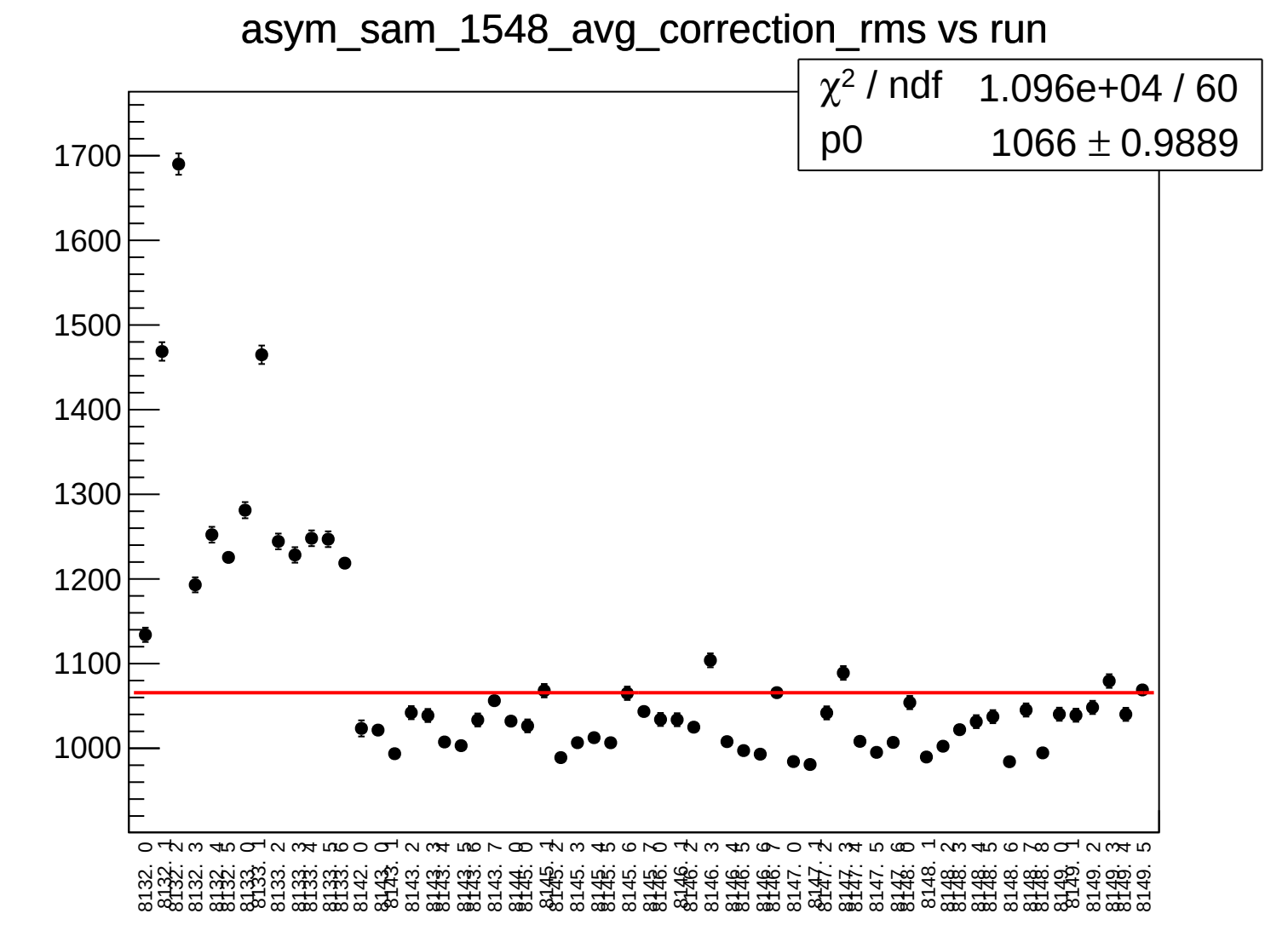

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 78.36 / 60
p0 −76.42 ± 125.5
pull
Entries 61
Mean 183.3
Std Dev 28.69

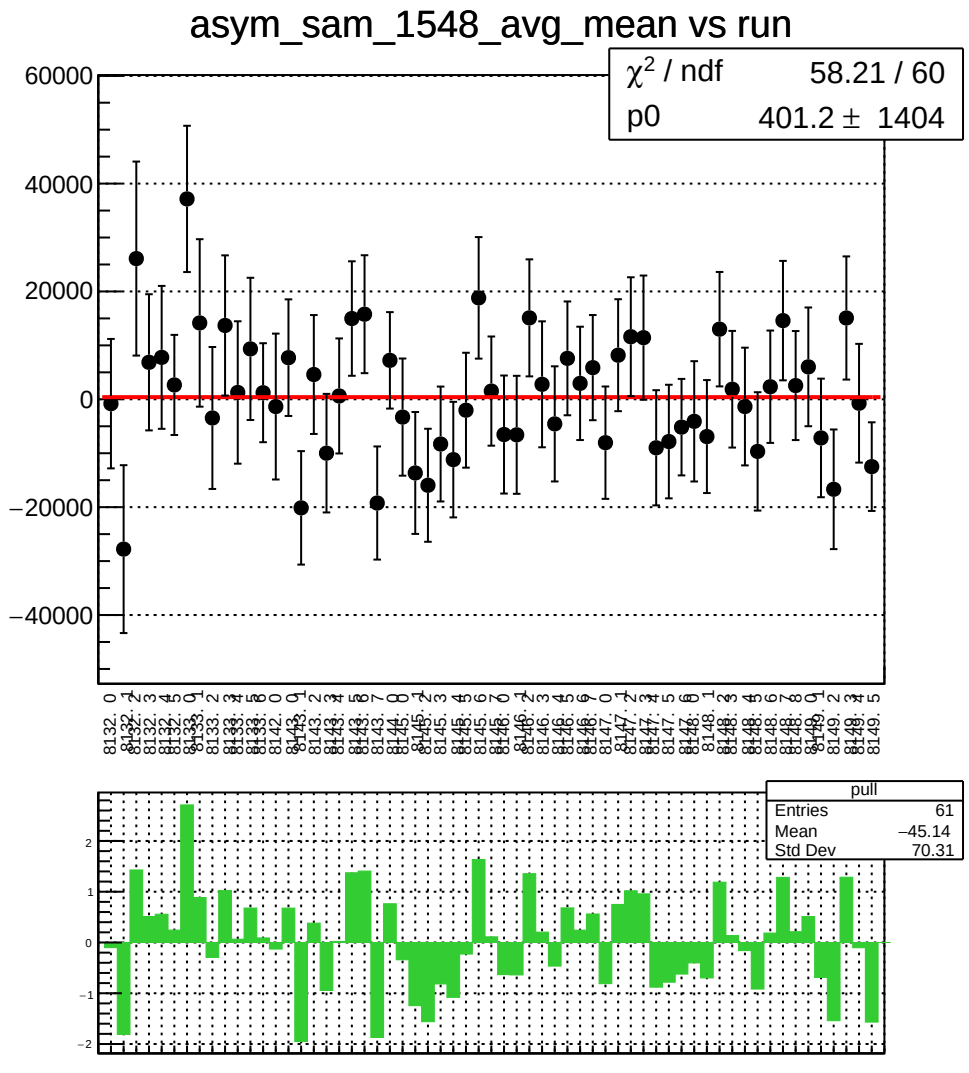

pull1D
Entries 61
Mean −0.002884
Std Dev 1.133

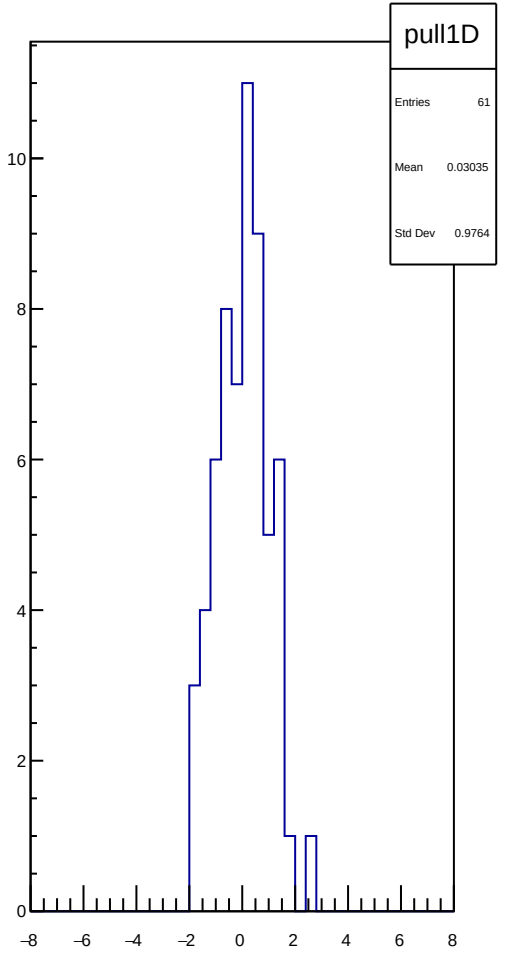

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 1.654e+04 / 60
p0 95.43 ± 0.08878
240
220
200
180
160
140
120
100
80

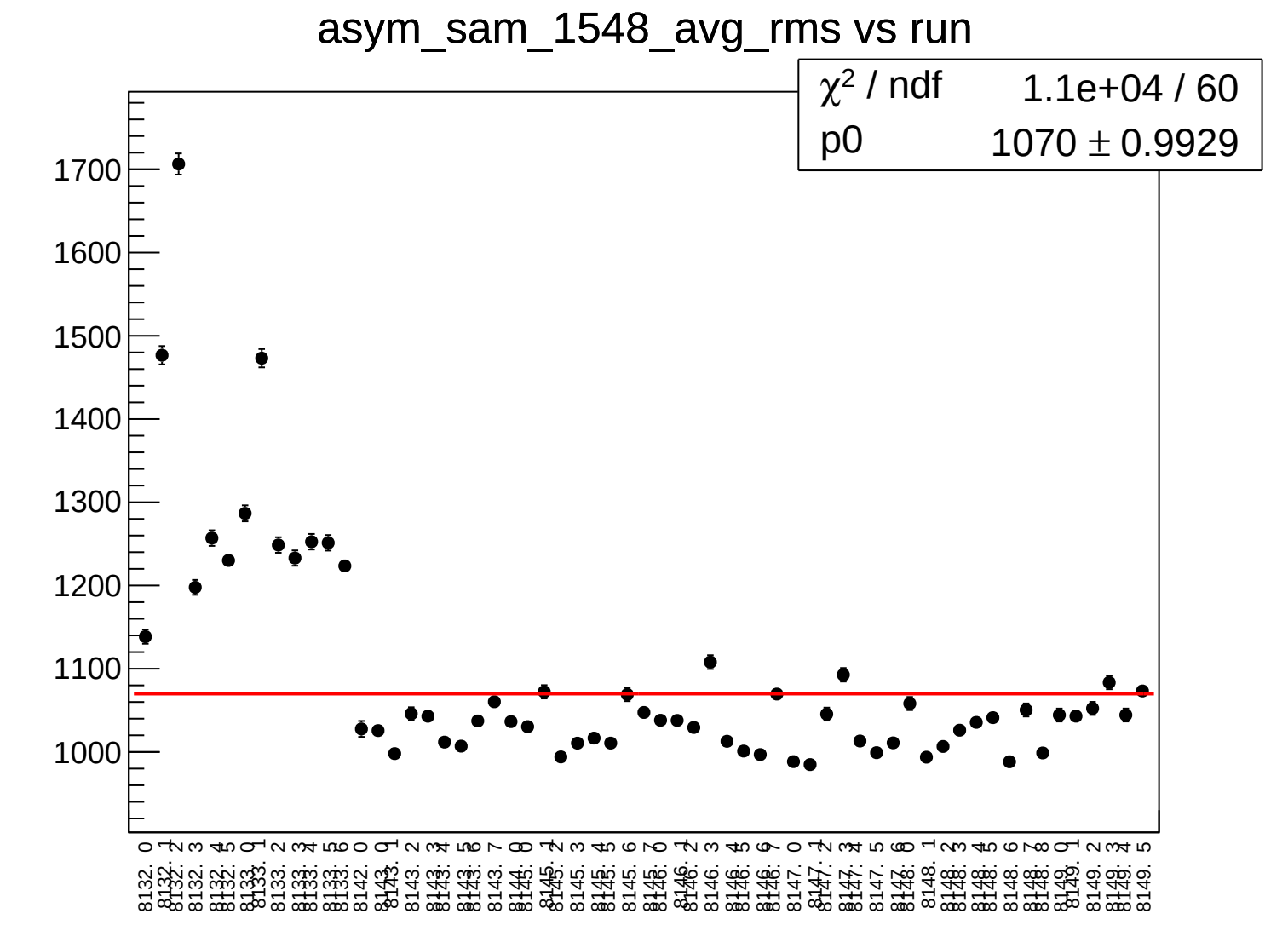

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 57.86 / 60
p0 −491.1± 1399
40000
20000
0
−20000
−40000
pull
Entries 61
Mean −44.97
Std Dev 68.63
2
1
0
−1
−2

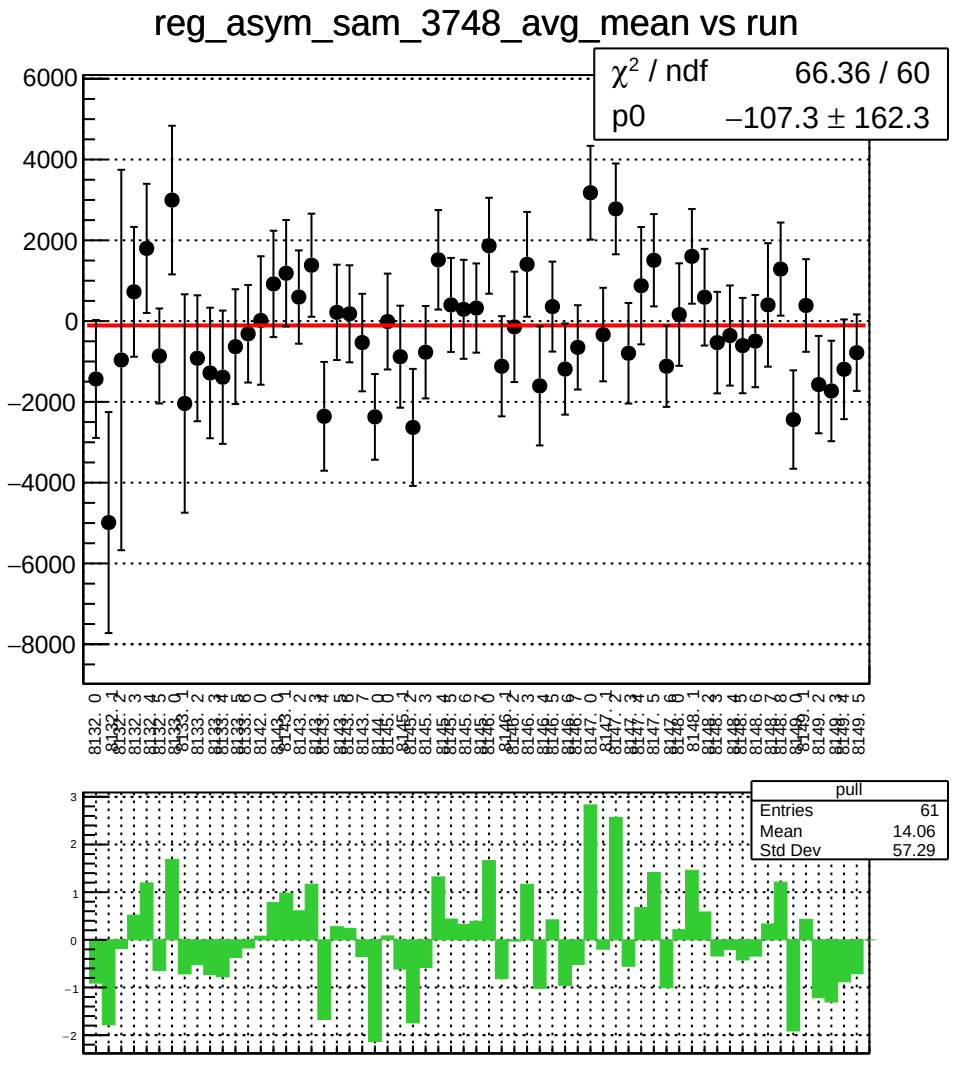

pull1D
Entries 61
Mean −0.03034
Std Dev 0.9735
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

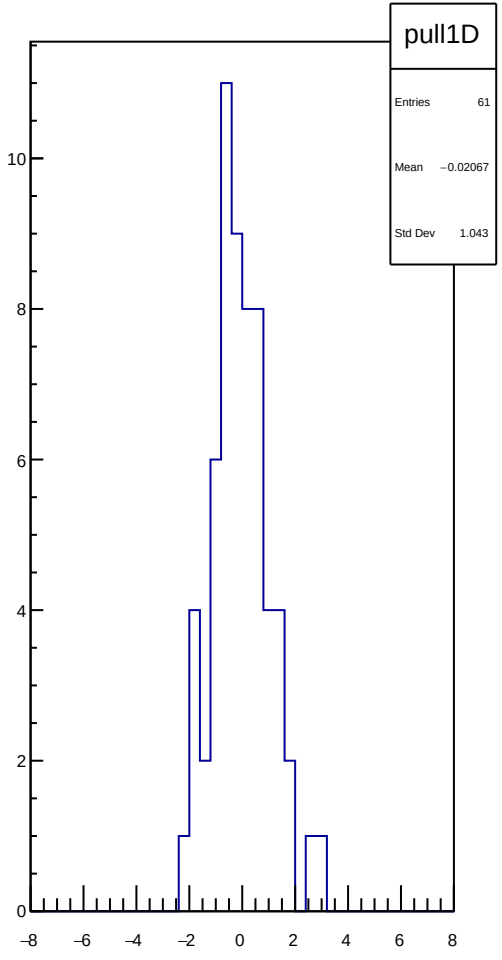

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 1.096e+04 / 60
p0 1066 ± 0.9889
1700
1600
1500
1400
1300
1200
1100
1000

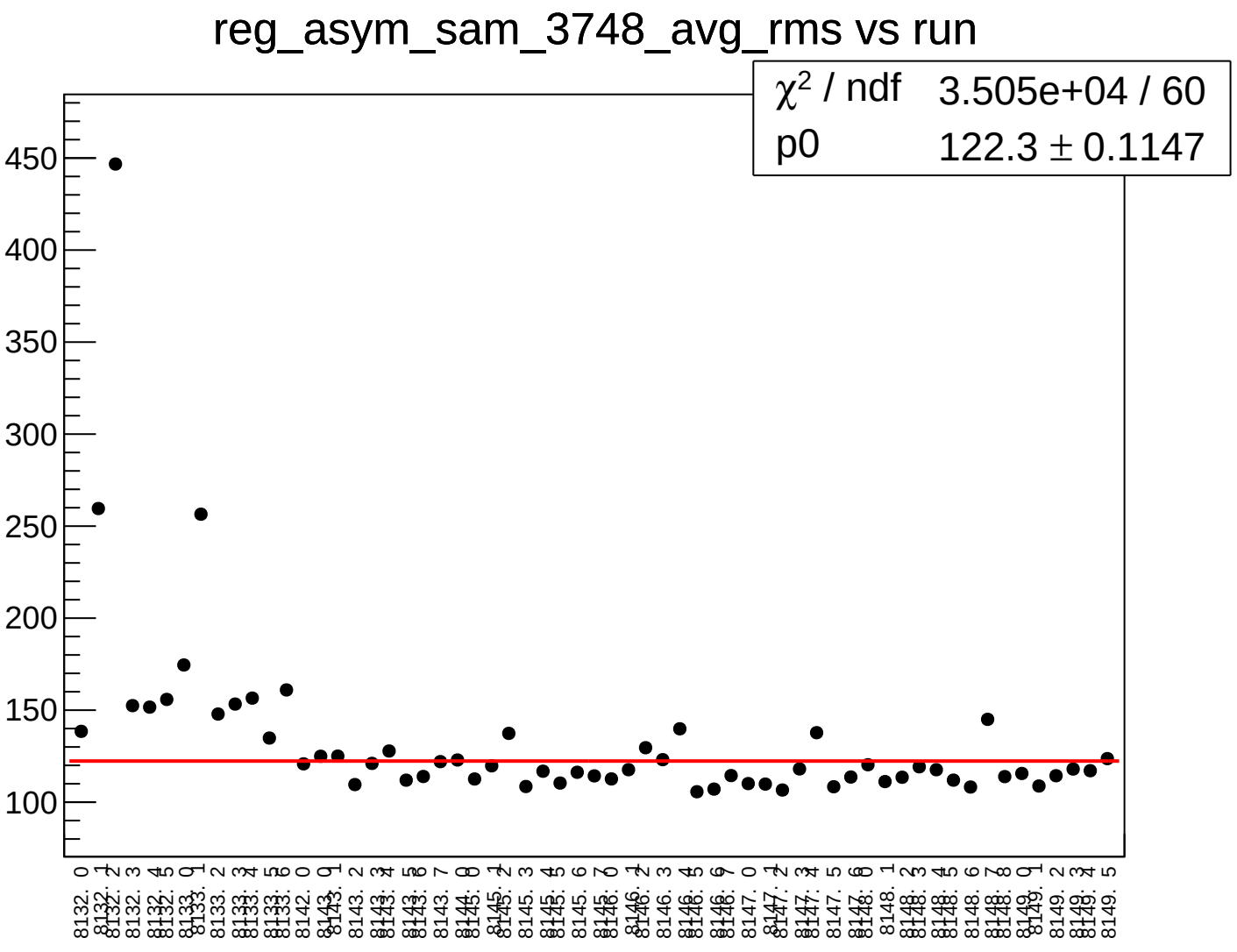

asym_sam_1548_avg_mean vs run
χ² / ndf 58.21 / 60
p0 401.2 ± 1404
60000
40000
20000
0
−20000
−40000
pull
Entries 61
Mean −45.14
Std Dev 70.31
2
1
0
−1
−2

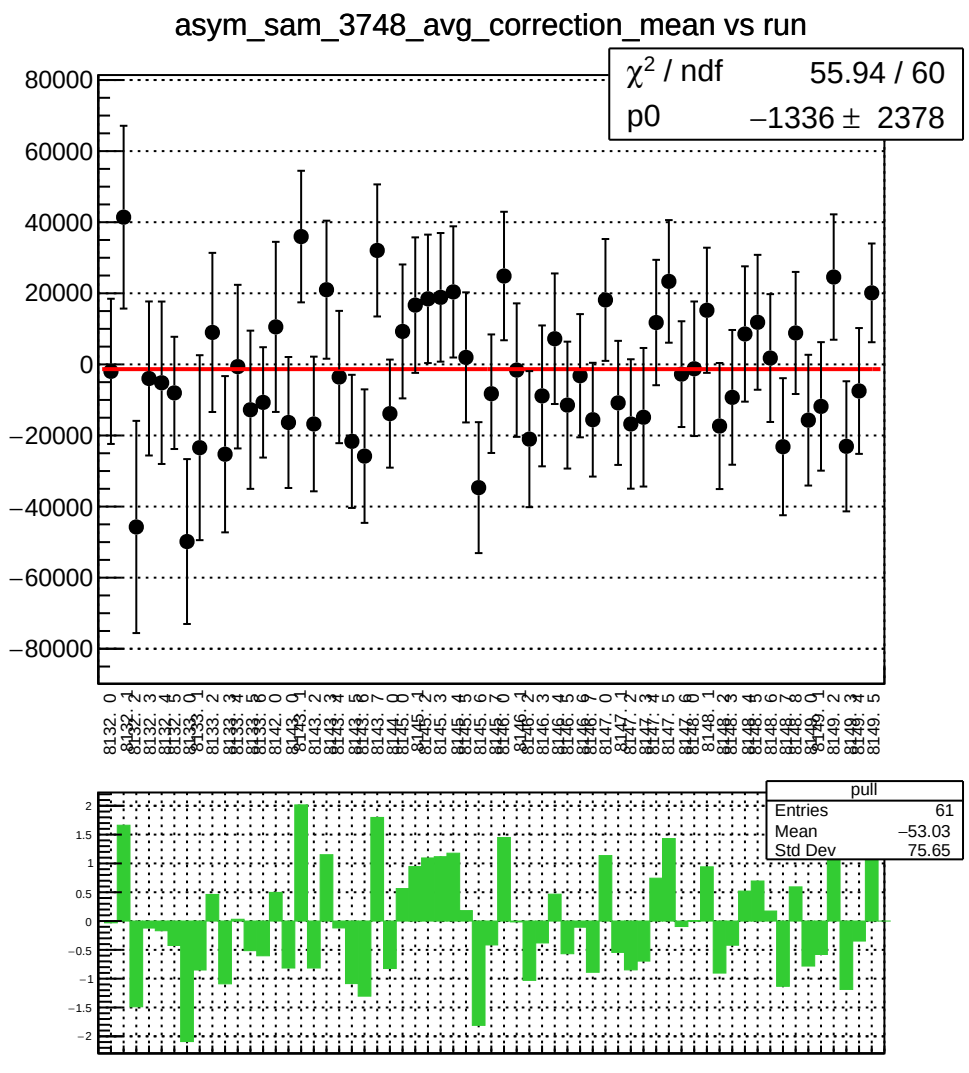

pull1D
Entries 61
Mean 0.03035
Std Dev 0.9764
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

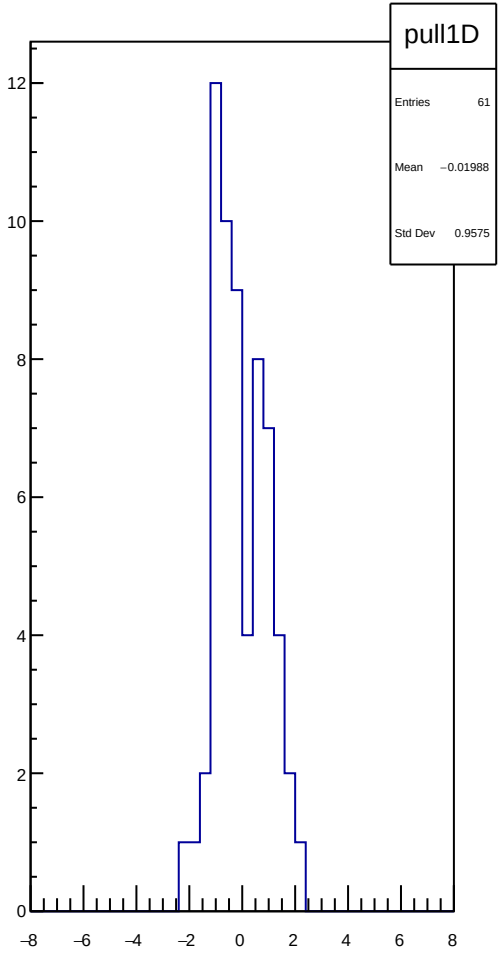

asym_sam_1548_avg_rms vs run
χ² / ndf 1.1e+04 / 60
p0 1070 ± 0.9929
1700
1600
1500
1400
1300
1200
1100
1000

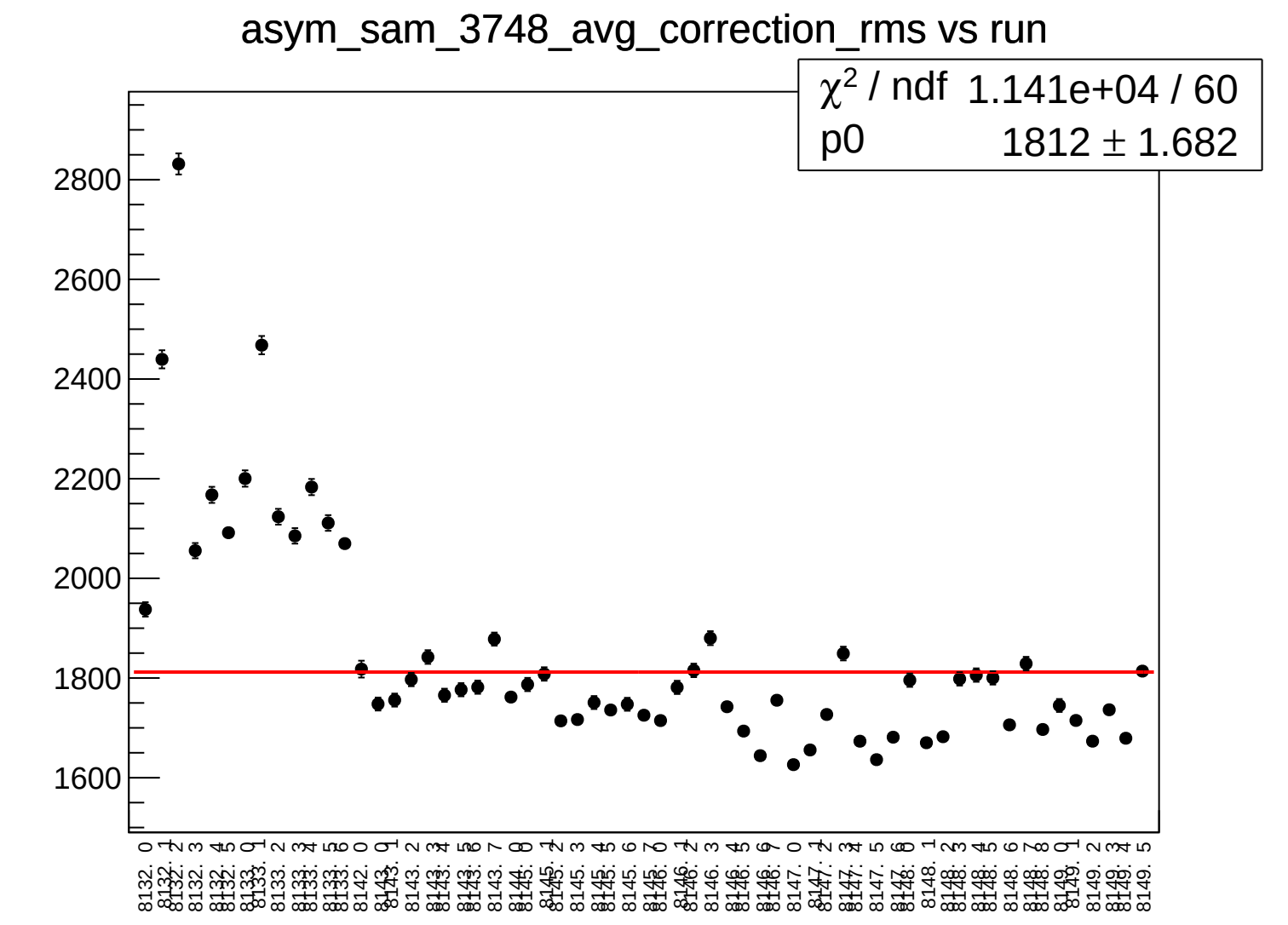

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 66.36 / 60
p0 −107.3 ± 162.3
pull
Entries 61
Mean 14.06
Std Dev 57.29

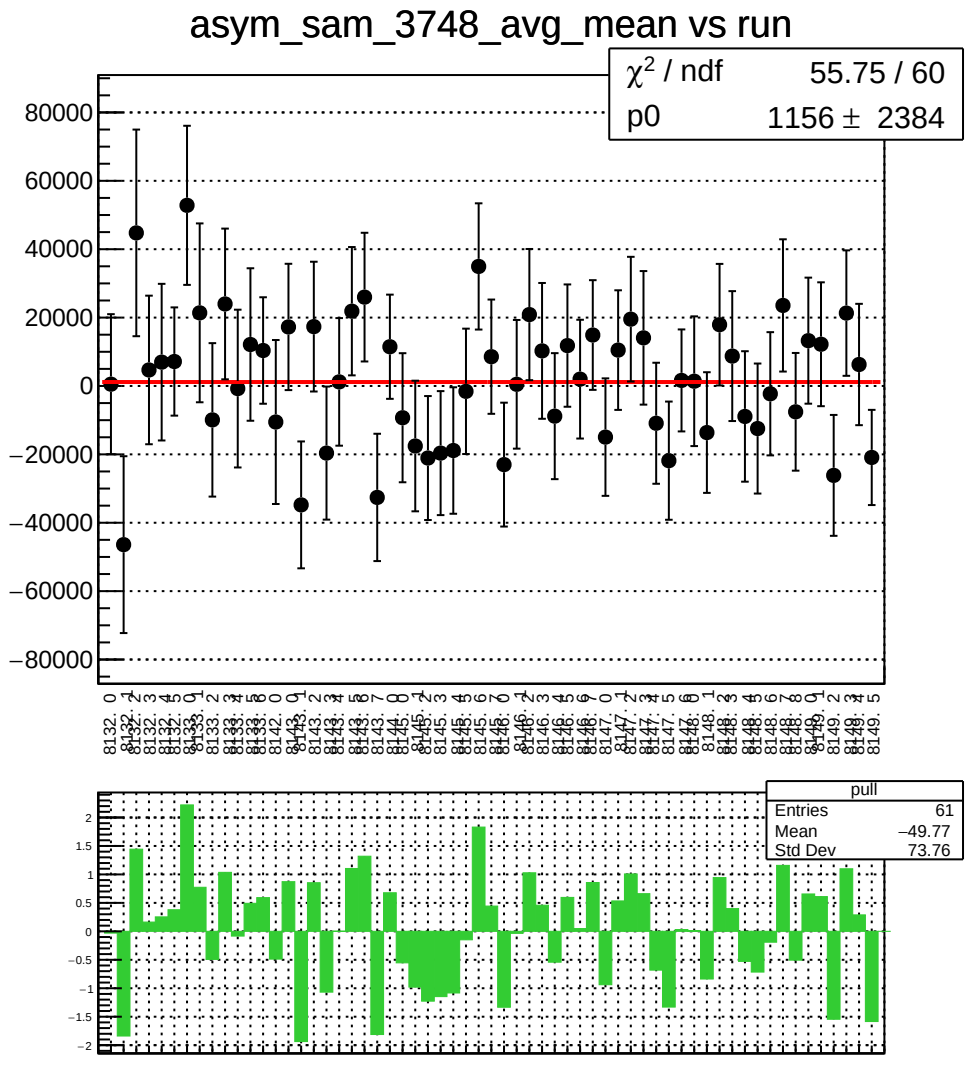

pull1D
Entries 61
Mean −0.02067
Std Dev 1.043

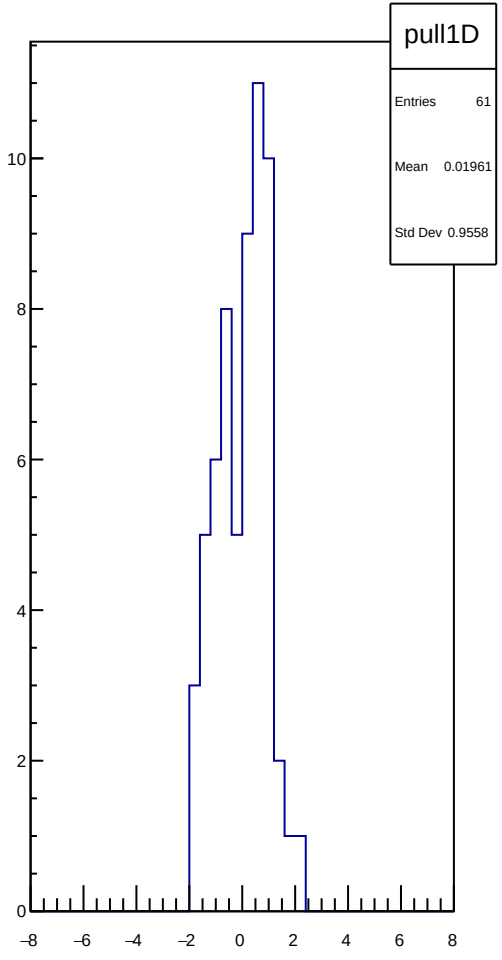

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 3.505e+04 / 60
p0 122.3 ± 0.1147
450
400
350
300
250
200
150
100

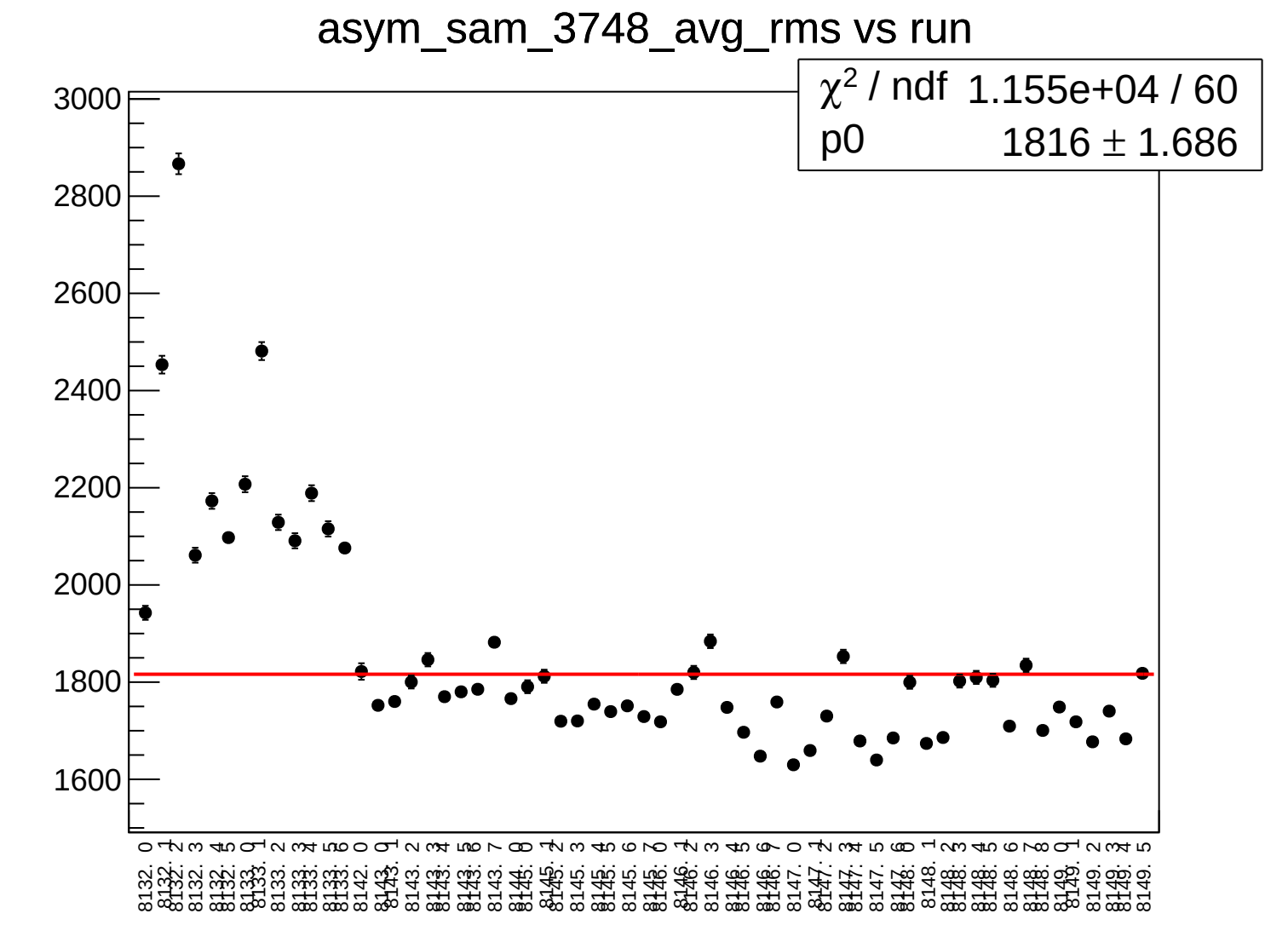

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 55.94 / 60
p0 −1336 ± 2378
pull
Entries 61
Mean −53.03
Std Dev 75.65

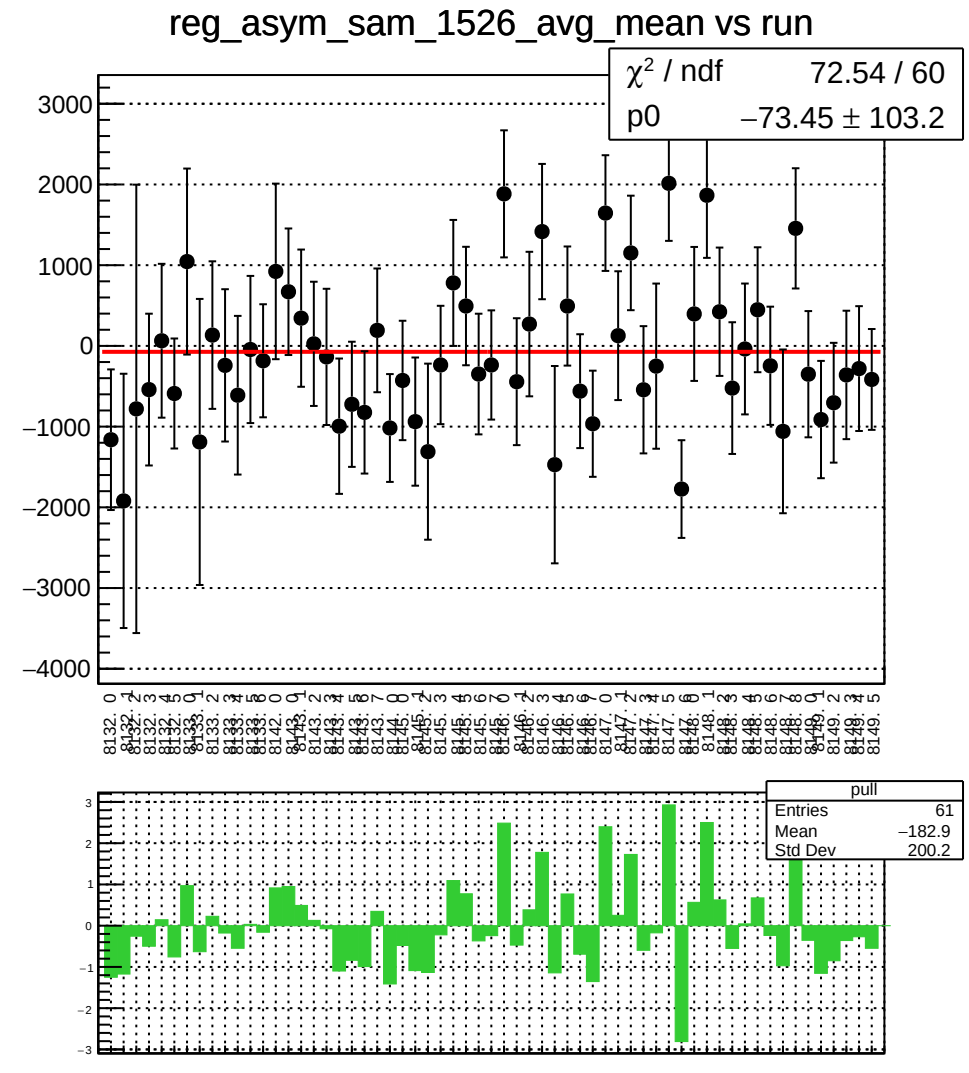

pull1D
Entries 61
Mean −0.01988
Std Dev 0.9575

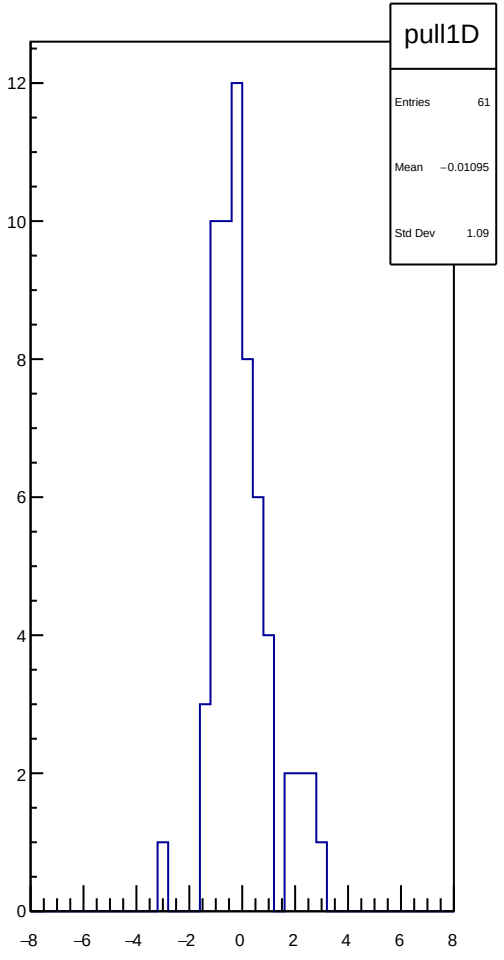

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 1.141e+04 / 60
p0 1812 ± 1.682
2800
2600
2400
2200
2000
1800
1600

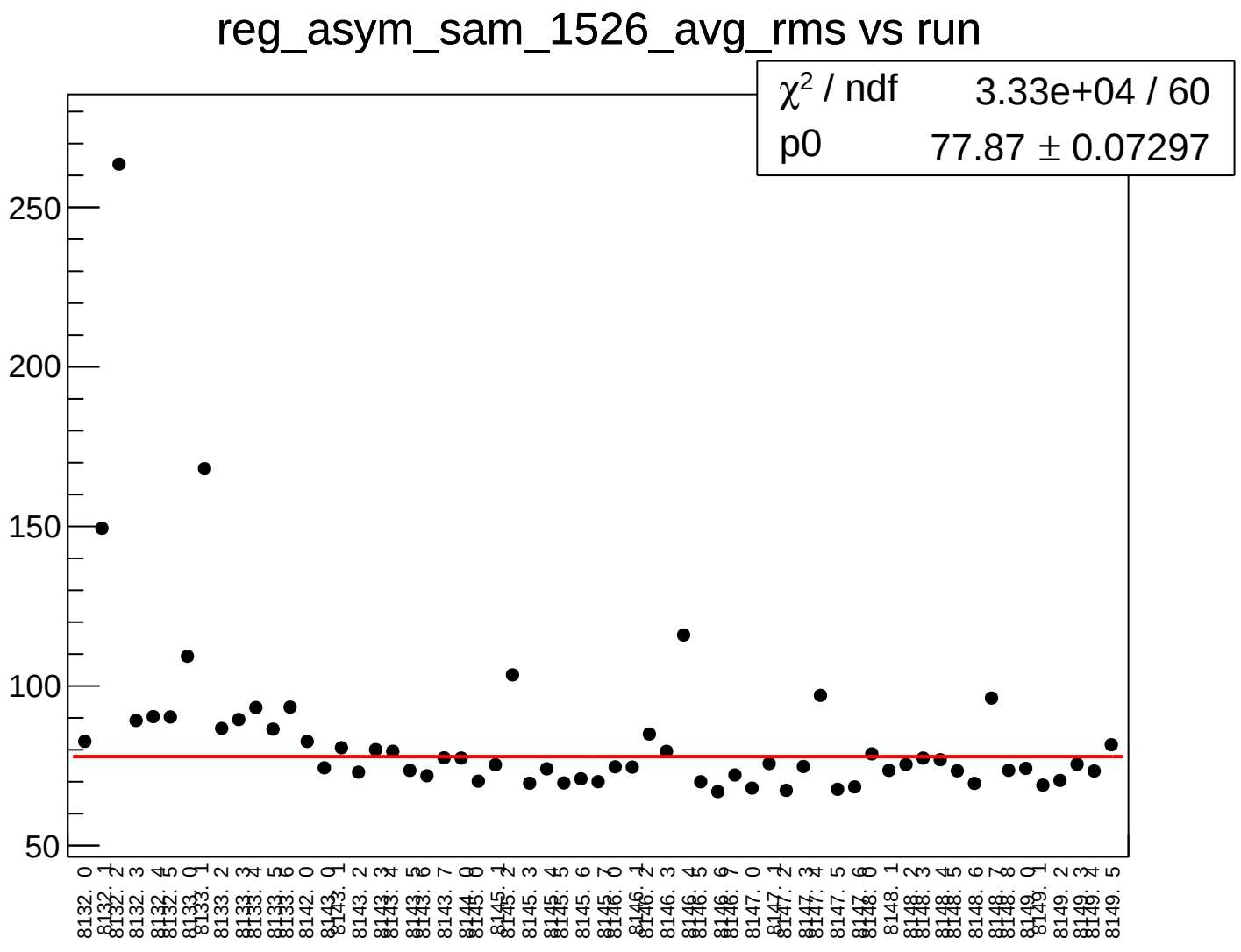

asym_sam_3748_avg_mean vs run
χ² / ndf 55.75 / 60
p0 1156 ± 2384
pull
Entries 61
Mean −49.77
Std Dev 73.76

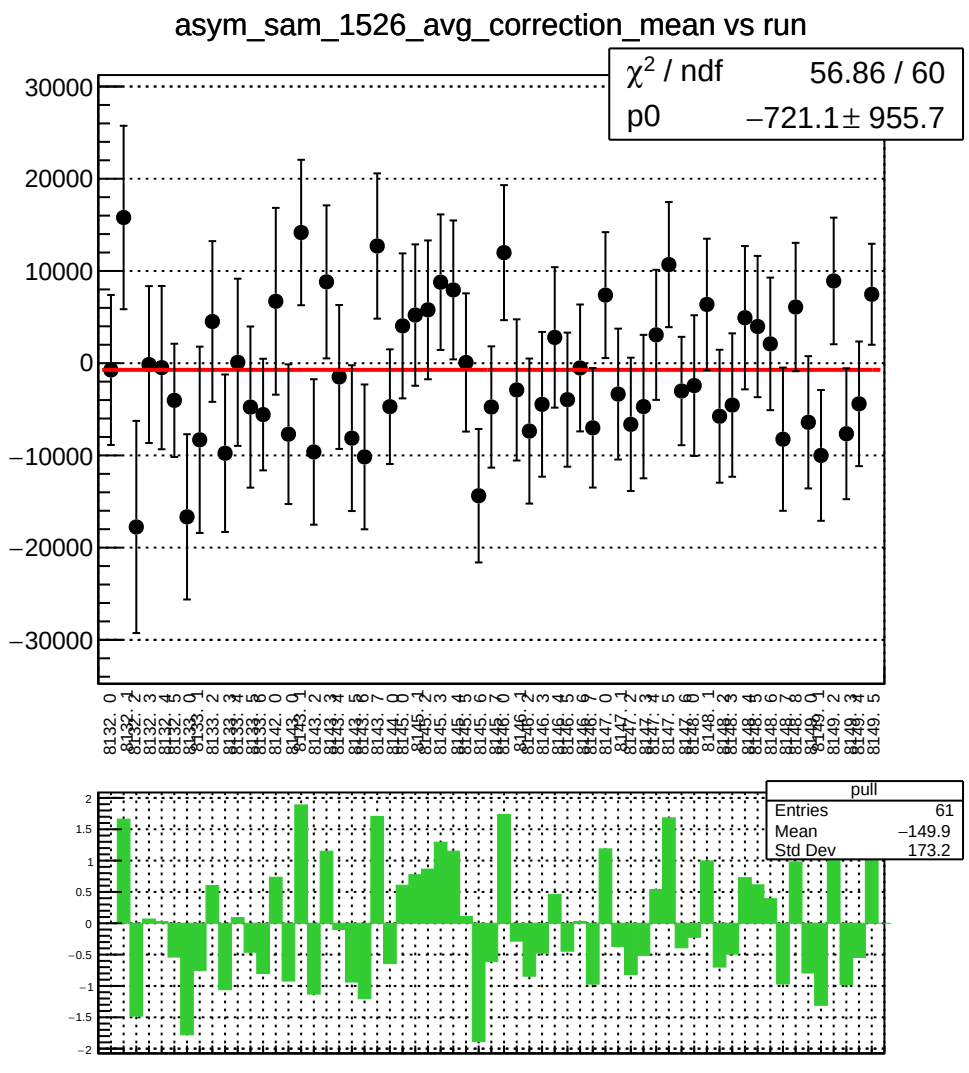

pull1D
Entries 61
Mean 0.01961
Std Dev 0.9558

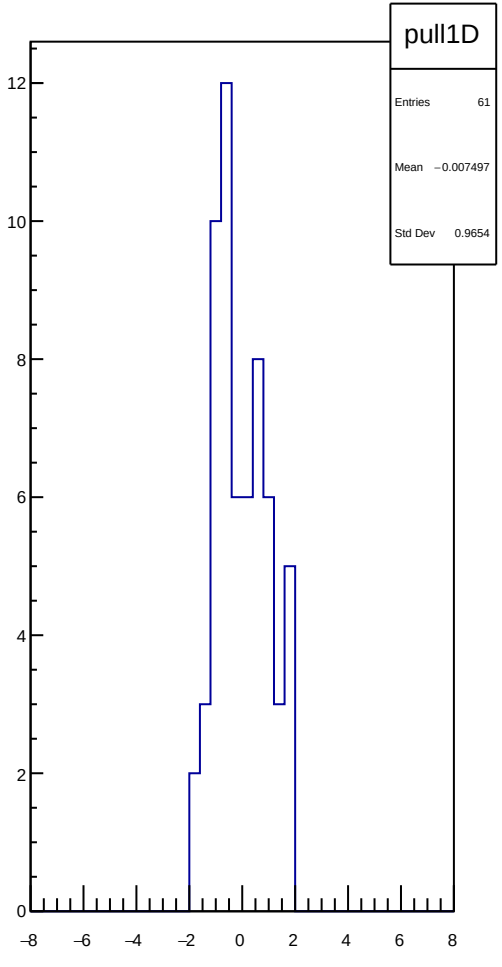

asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.155e+04 / 60
p0 1816 ± 1.686
3000
2800
2600
2400
2200
2000
1800
1600

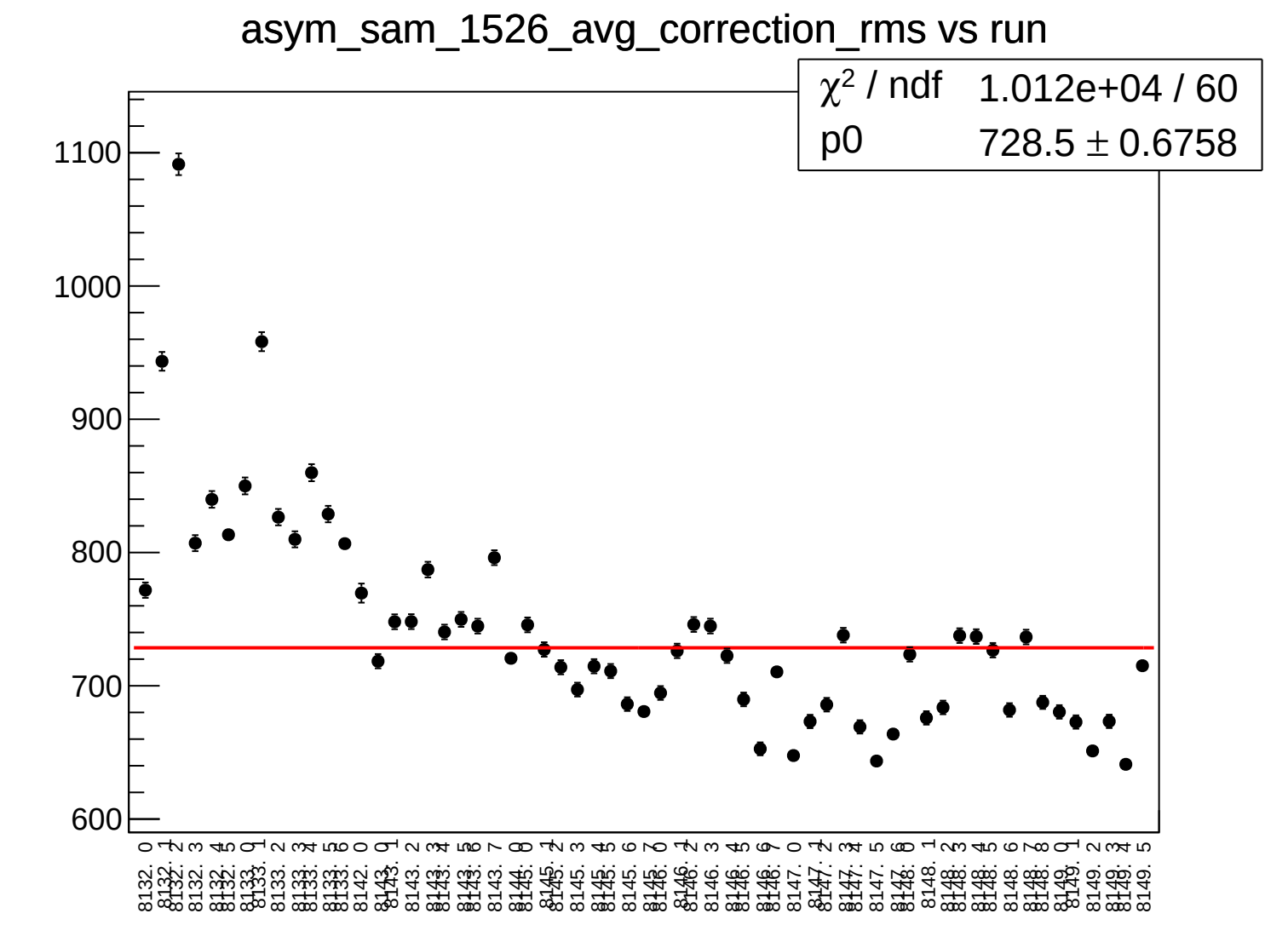

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 72.54 / 60
p0 −73.45 ± 103.2
pull
Entries 61
Mean −182.9
Std Dev 200.2

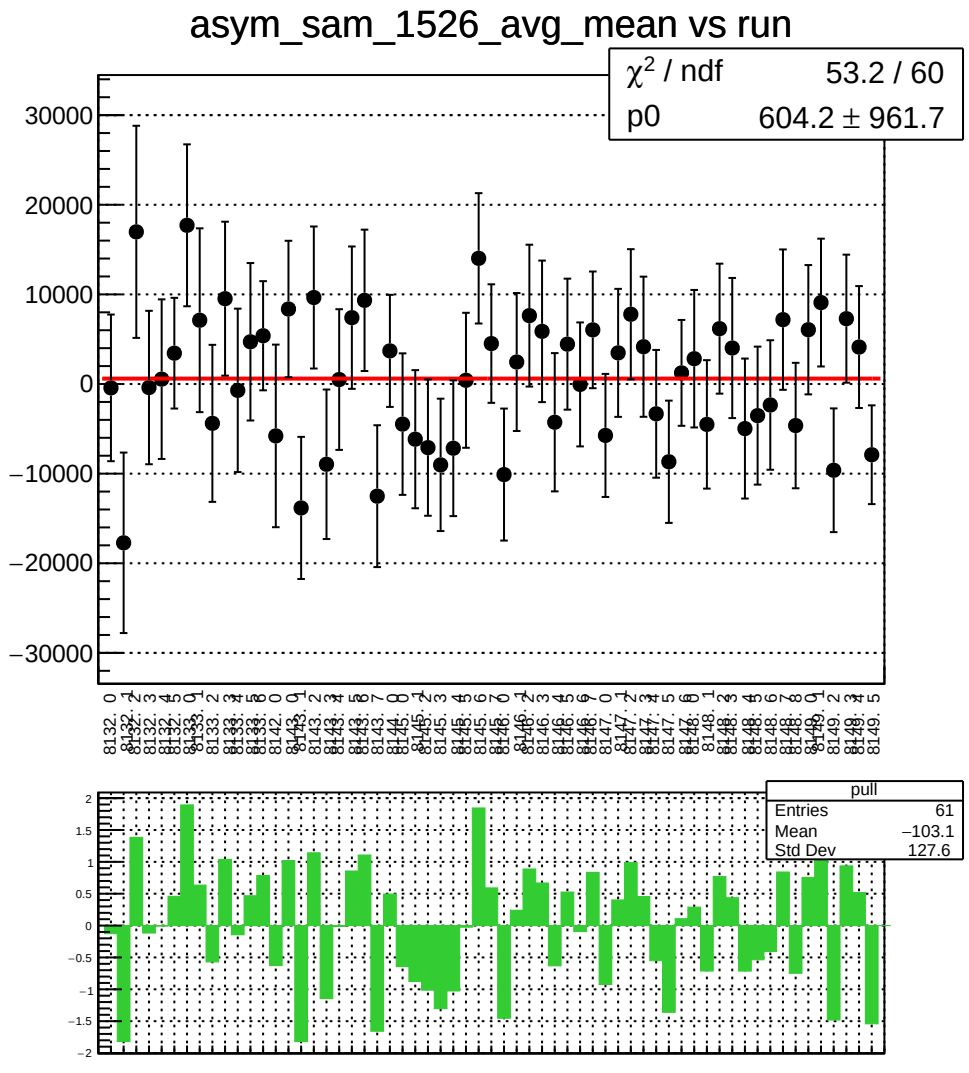

pull1D
Entries 61
Mean −0.01095
Std Dev 1.09

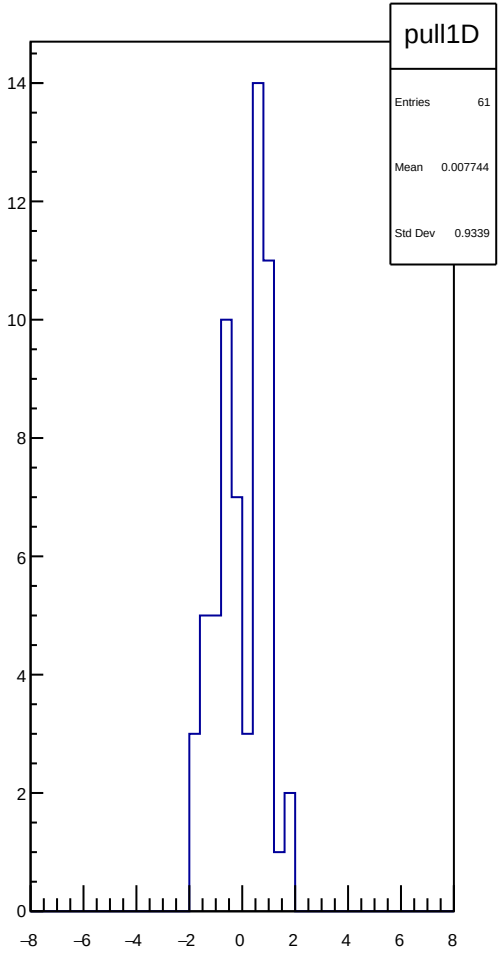

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 3.33e+04 / 60
p0 77.87 ± 0.07297
250
200
150
100
50

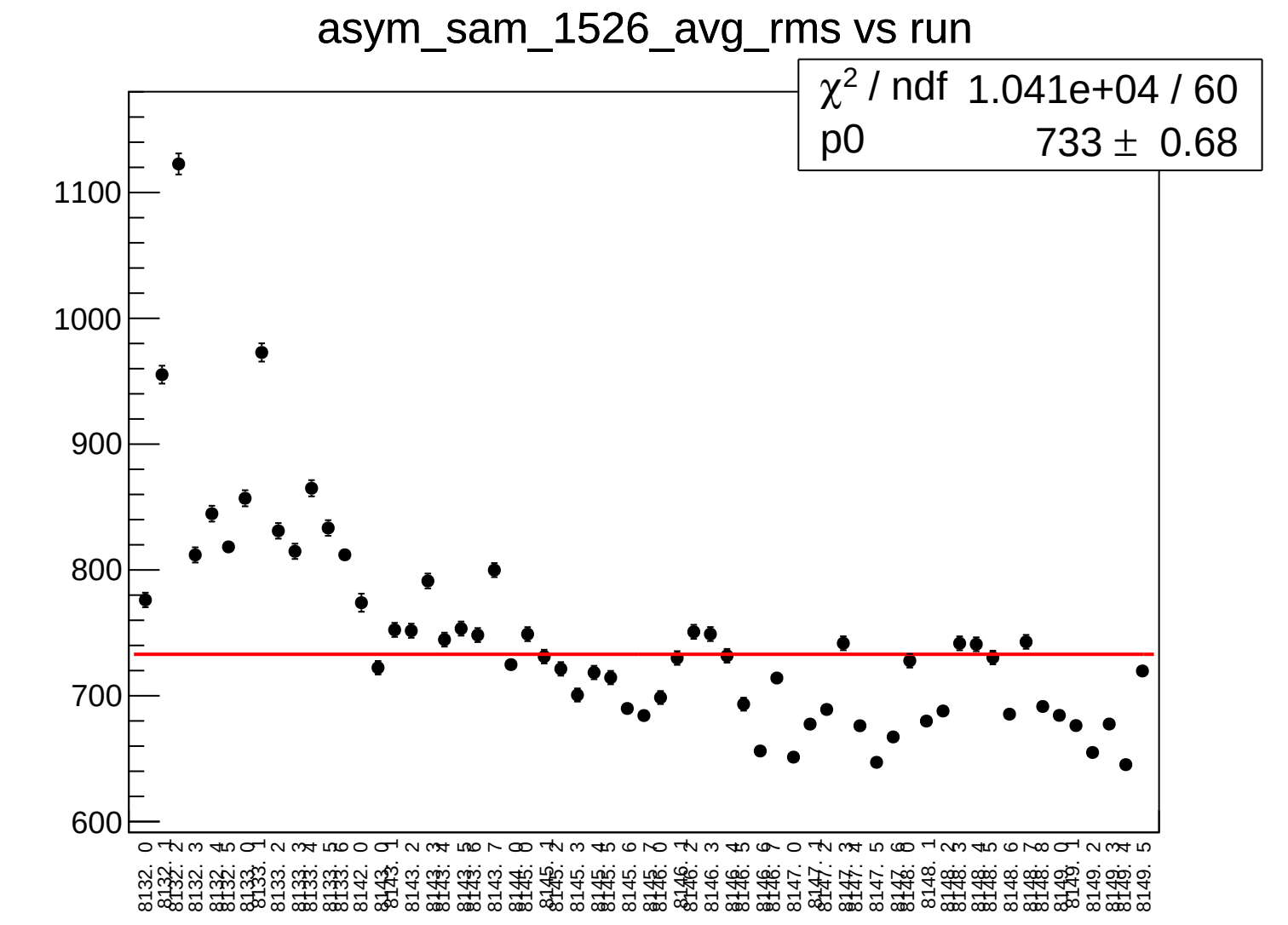

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 56.86 / 60
p0 −721.1± 955.7
pull
Entries 61
Mean −149.9
Std Dev 173.2

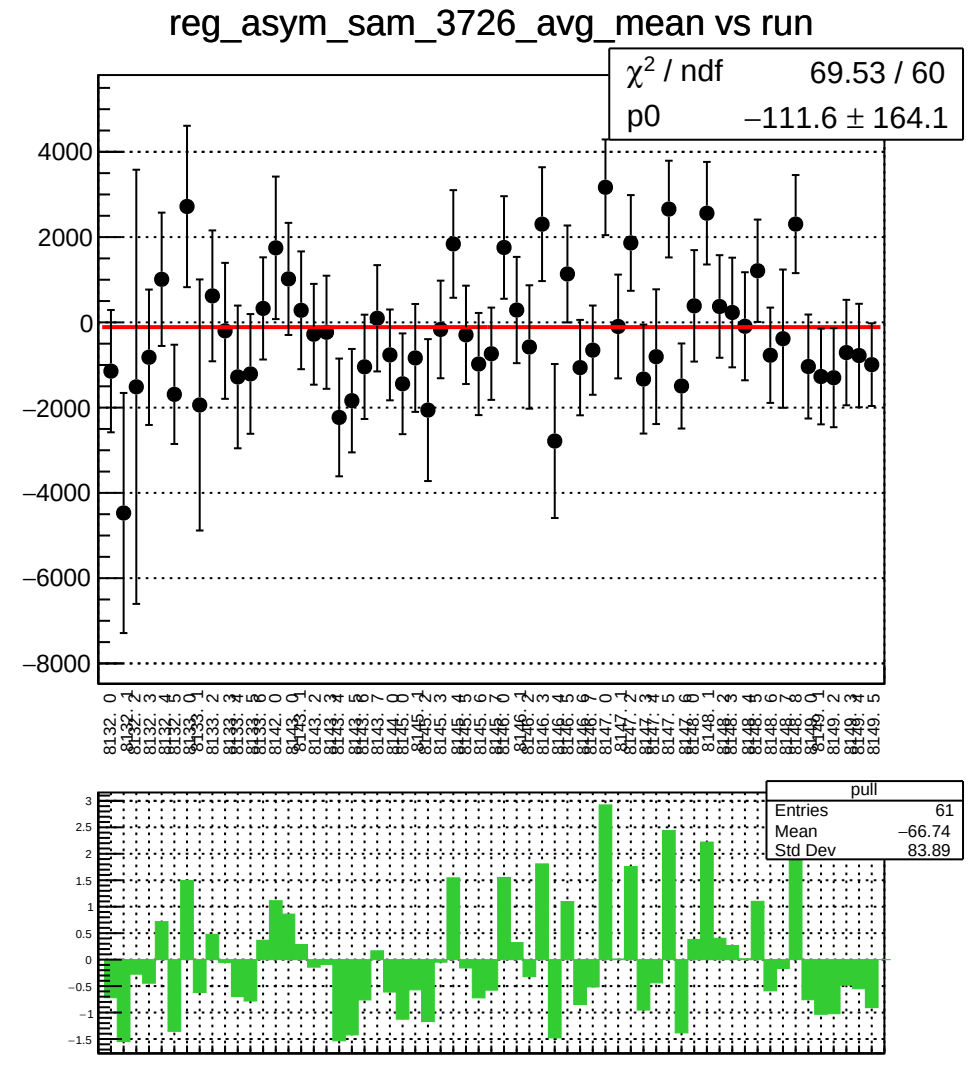

pull1D
Entries 61
Mean −0.007497
Std Dev 0.9654

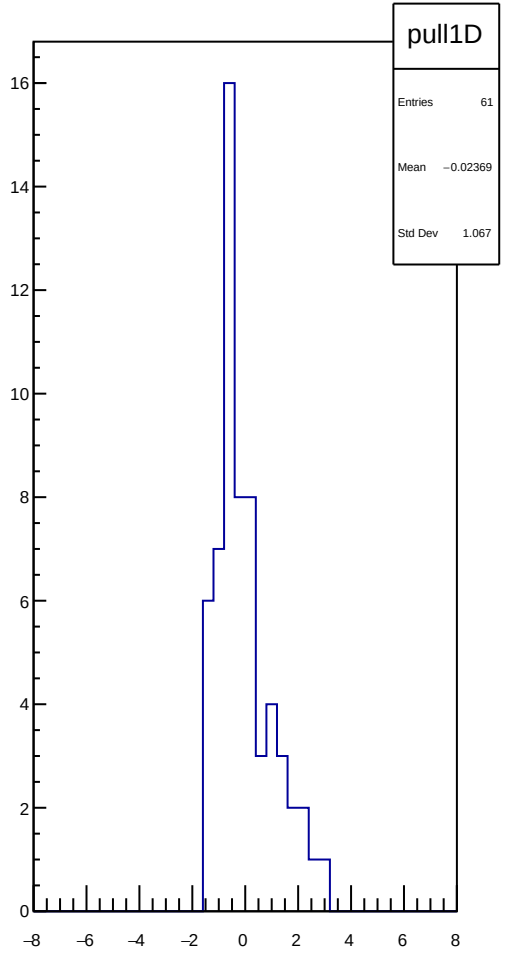

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 1.012e+04 / 60
p0 728.5 ± 0.6758
1100
1000
900
800
700
600
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 0
8133. 1
8133. 2
8133. 3
8133. 4
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8143. 7
8144. 0
8144. 6
8145. 1
8145. 2
8145. 3
8145. 4
8145. 5
8145. 6
8145. 7
8146. 0
8146. 1
8146. 2
8146. 3
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8148. 8
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5

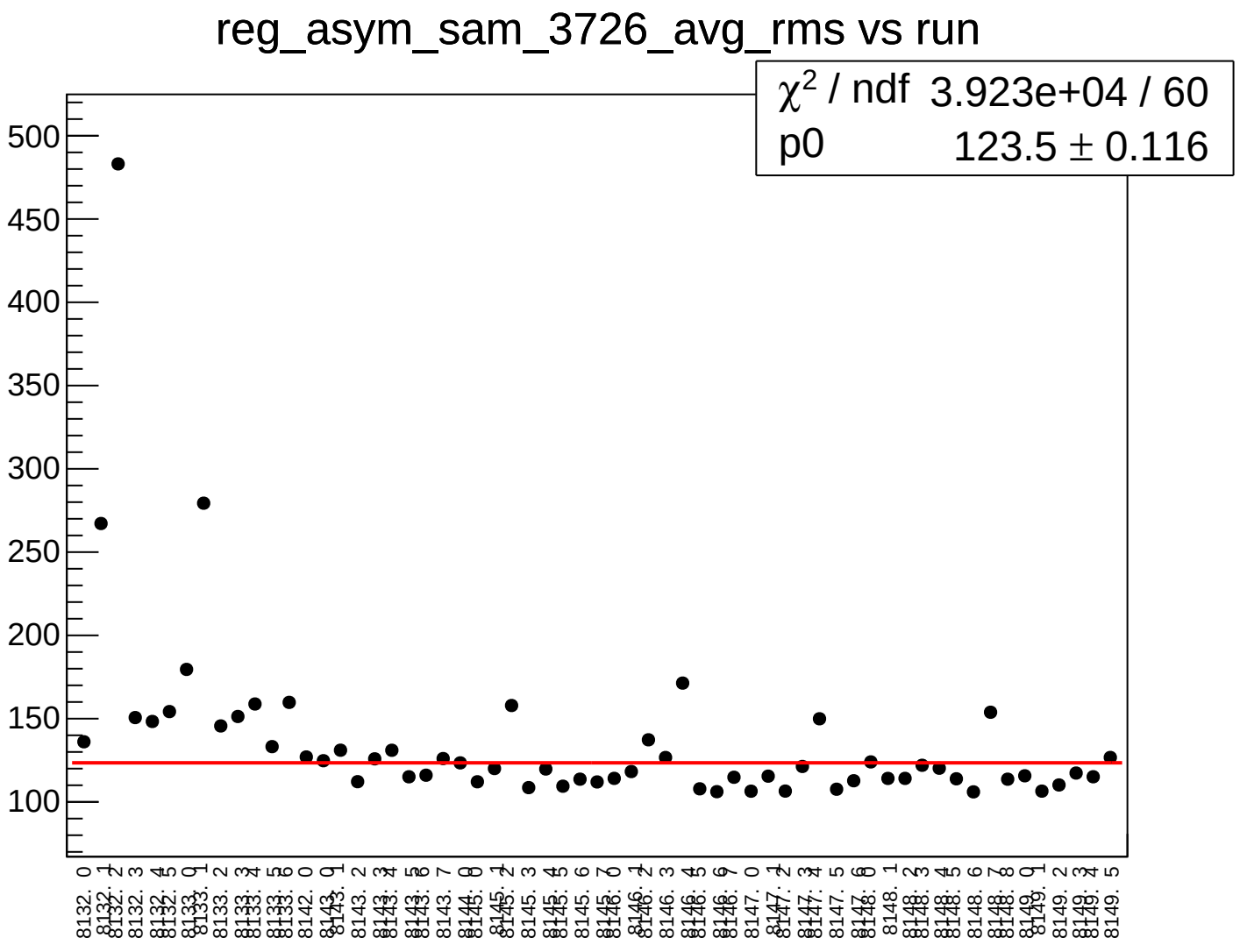

asym_sam_1526_avg_mean vs run
χ² / ndf 53.2 / 60
p0 604.2 ± 961.7
pull
Entries 61
Mean −103.1
Std Dev 127.6

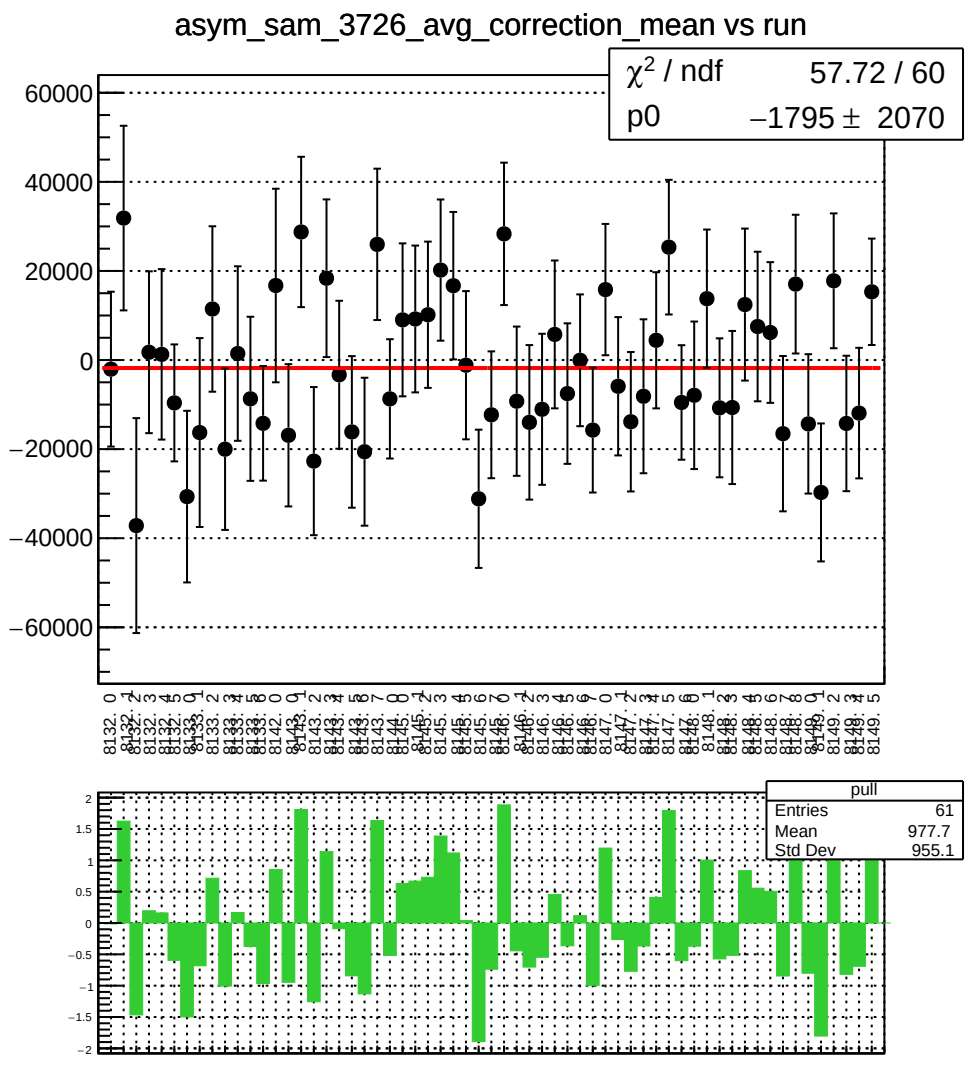

pull1D
Entries 61
Mean 0.007744
Std Dev 0.9339

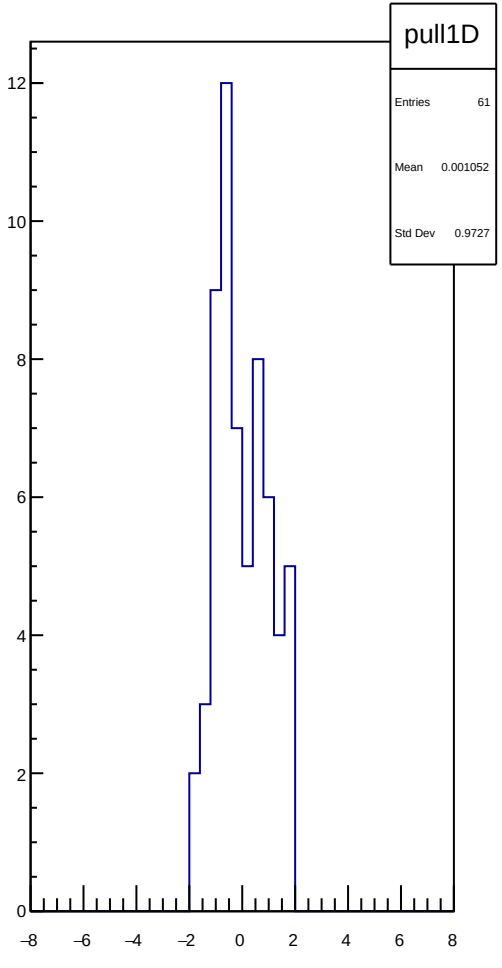

asym_sam_1526_avg_rms vs run
χ² / ndf 1.041e+04 / 60
p0 733 ± 0.68
1100
1000
900
800
700
600

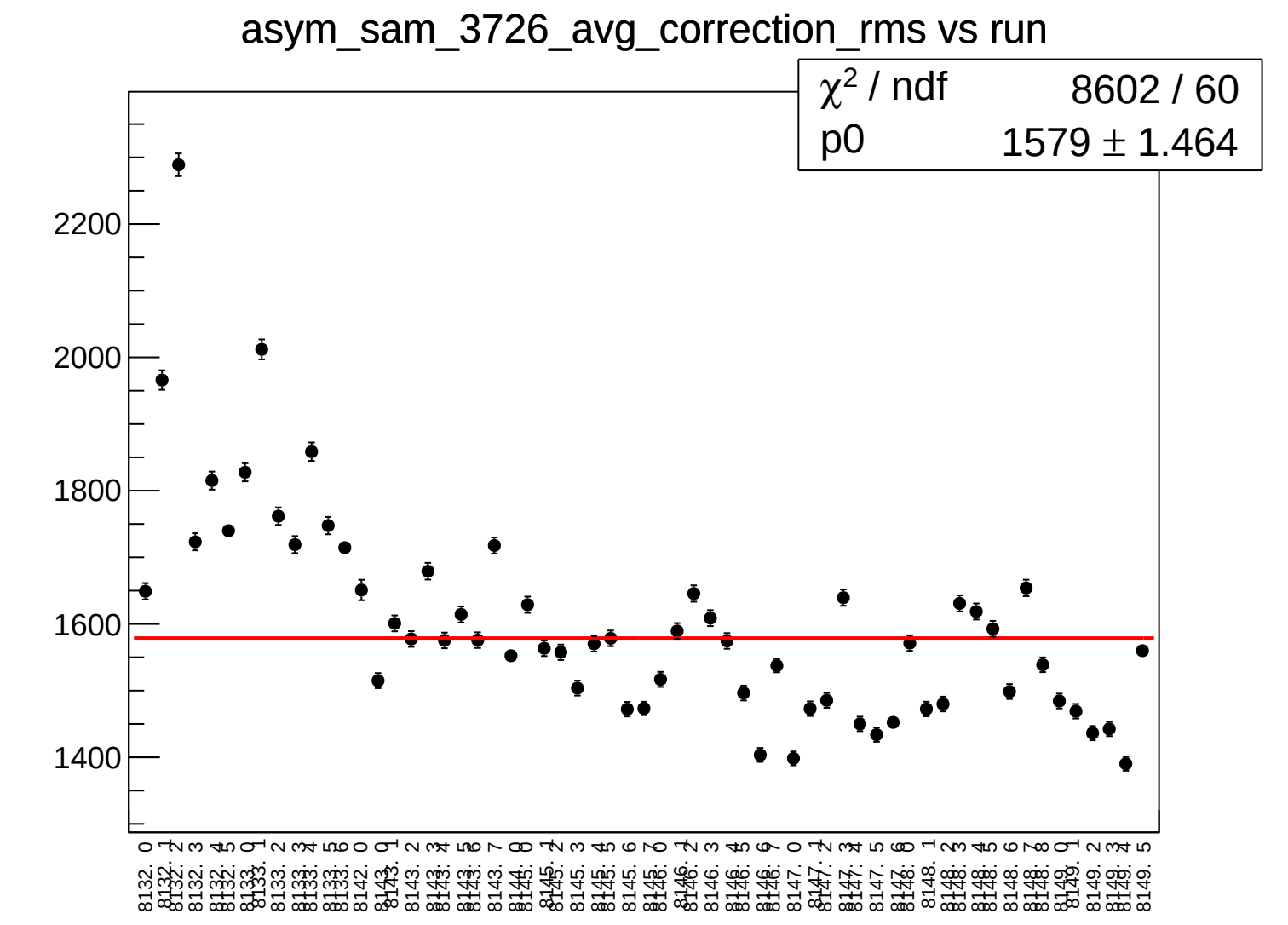

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 69.53 / 60
p0 −111.6 ± 164.1
pull
Entries 61
Mean −66.74
Std Dev 83.89

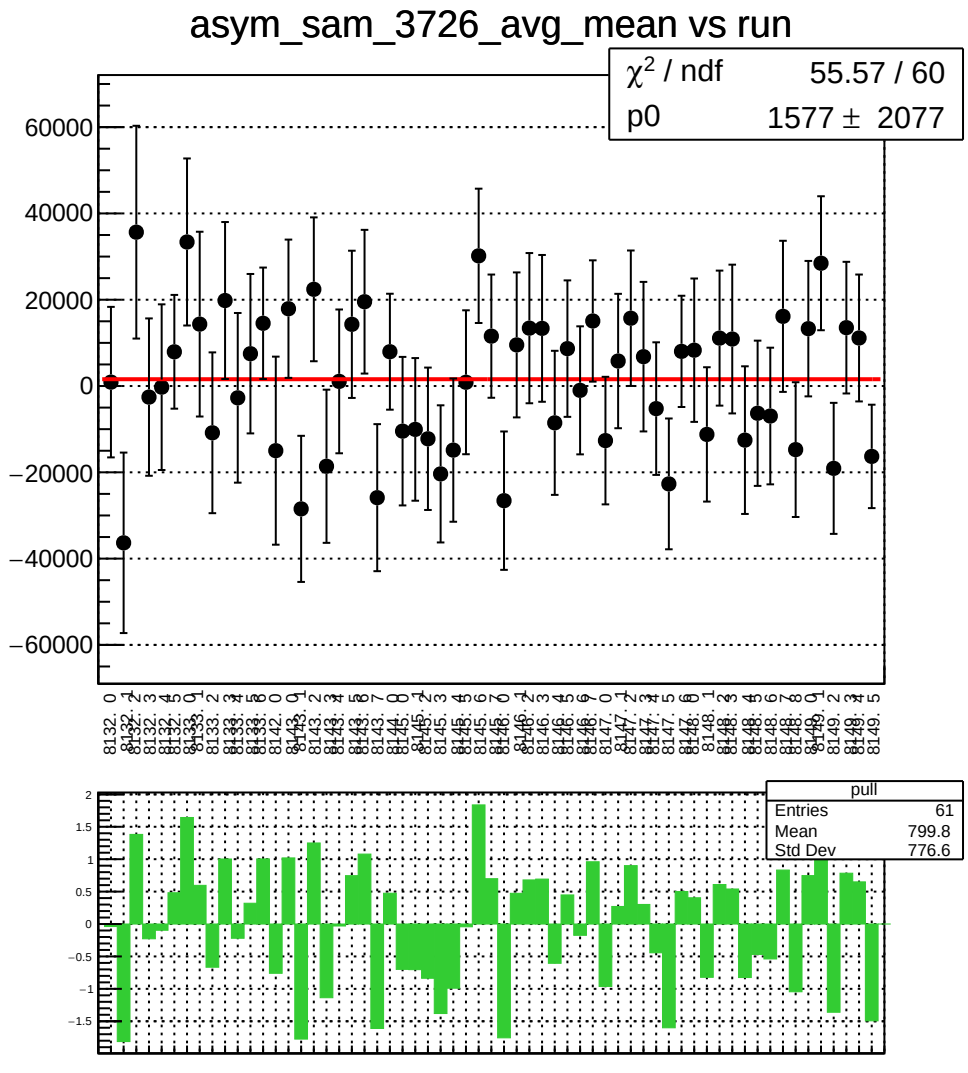

pull1D
Entries 61
Mean −0.02369
Std Dev 1.067

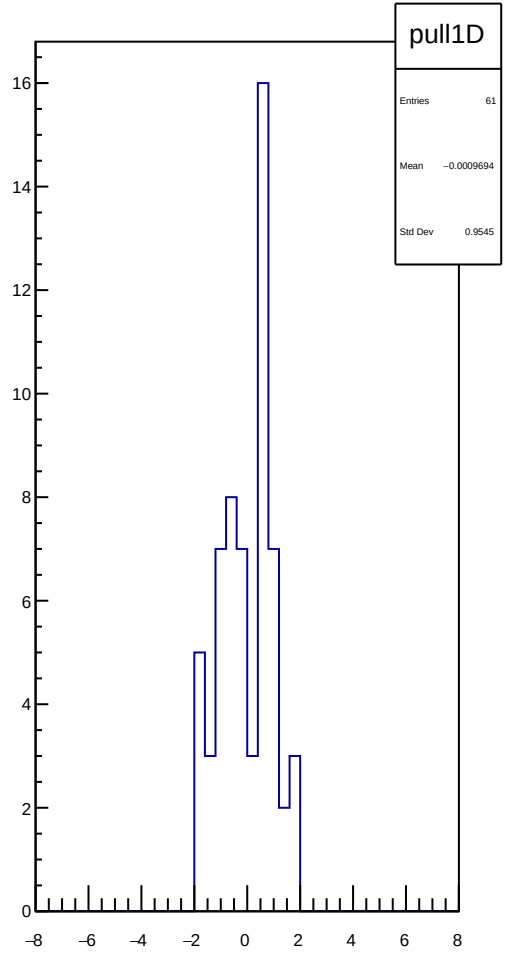

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 3.923e+04 / 60
p0 123.5 ± 0.116
500
450
400
350
300
250
200
150
100

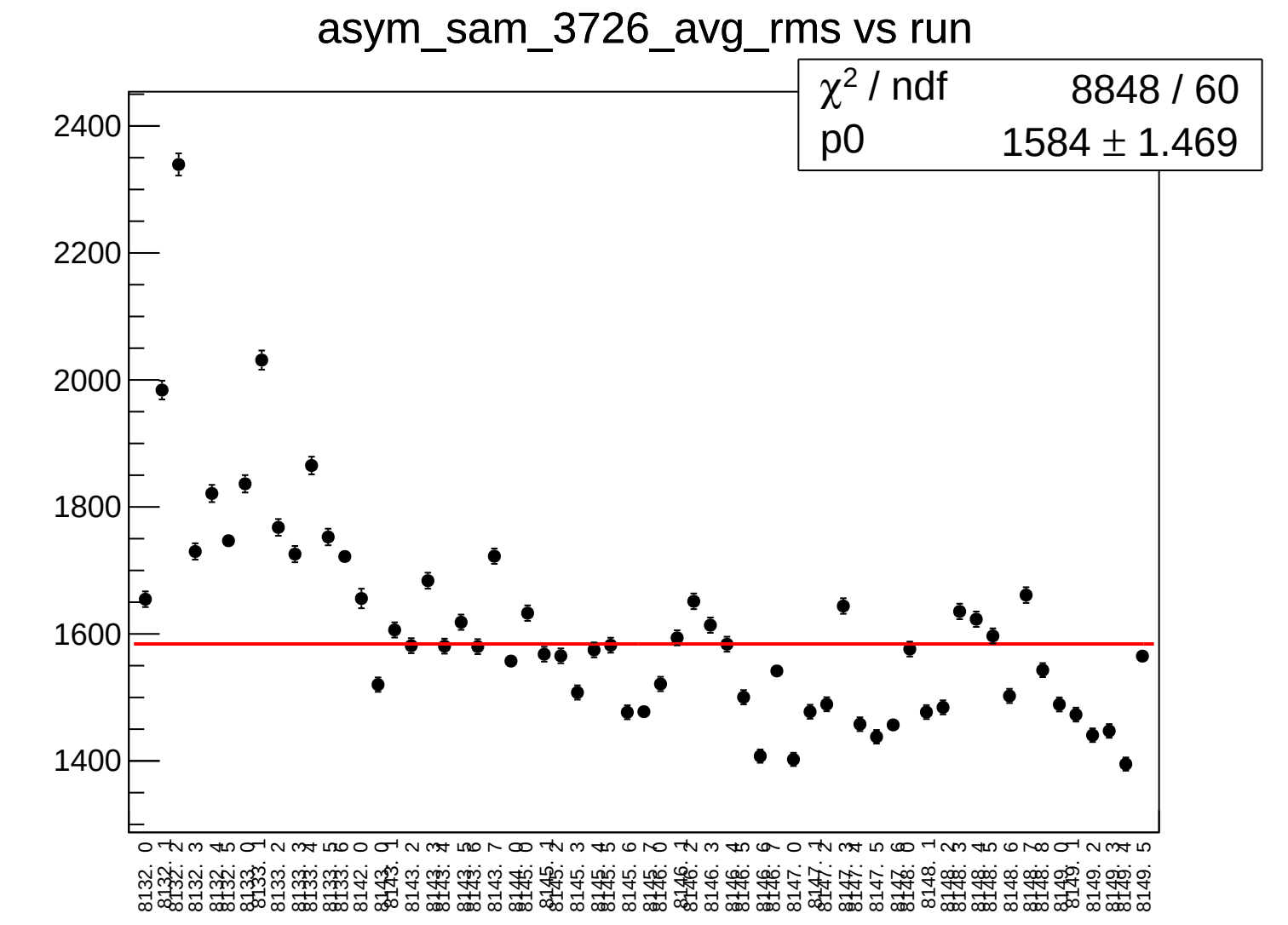

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 57.72 / 60
p0 −1795 ± 2070
pull
Entries 61
Mean 977.7
Std Dev 955.1

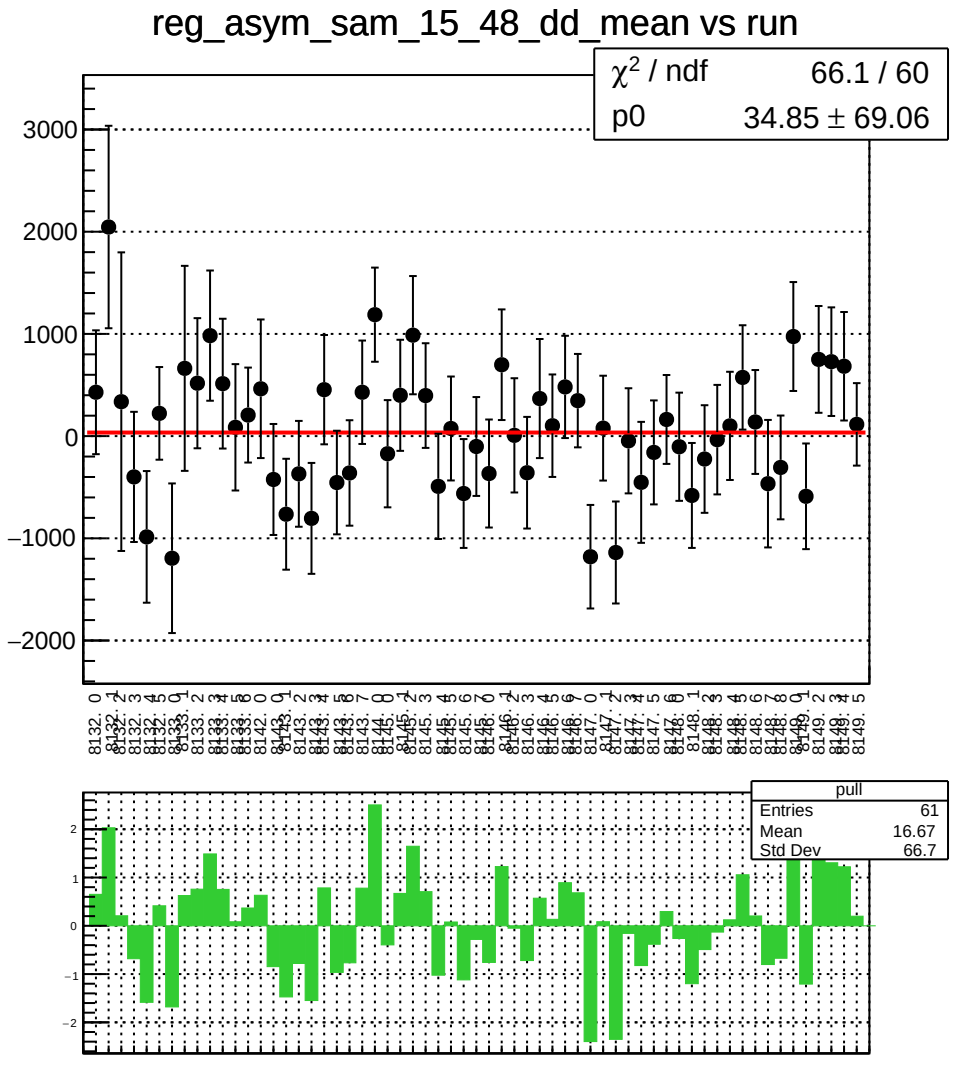

pull1D
Entries 61
Mean 0.001052
Std Dev 0.9727

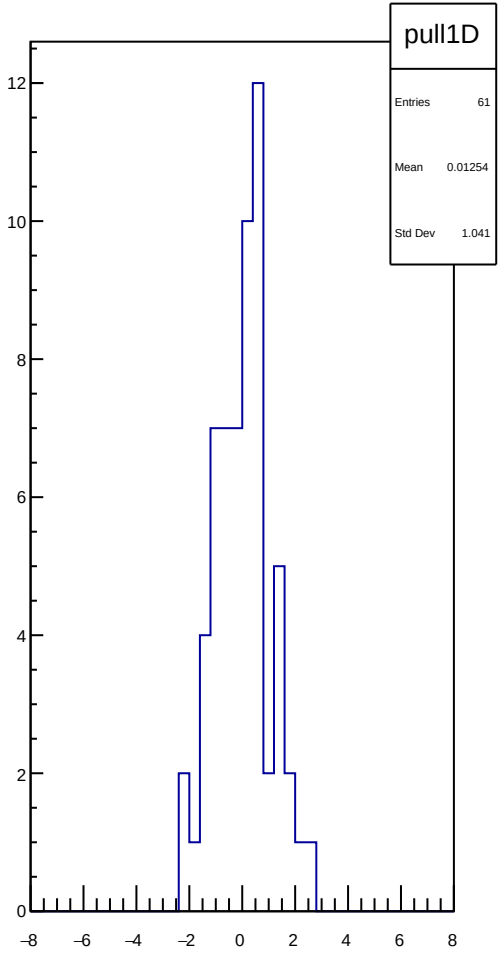

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 8602 / 60
p0 1579 ± 1.464
2200
2000
1800
1600
1400

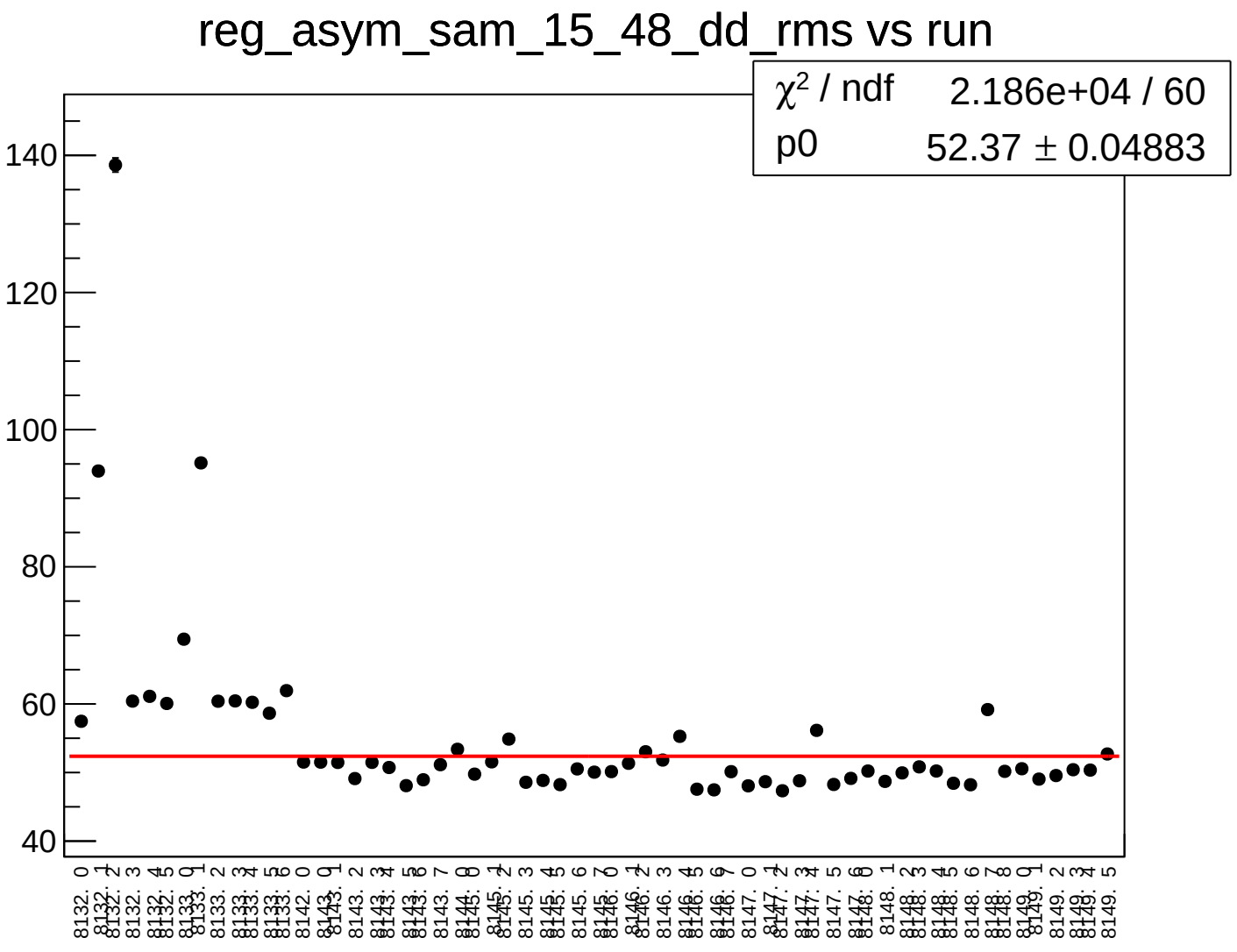

asym_sam_3726_avg_mean vs run
χ² / ndf 55.57 / 60
p0 1577 ± 2077
pull
Entries 61
Mean 799.8
Std Dev 776.6

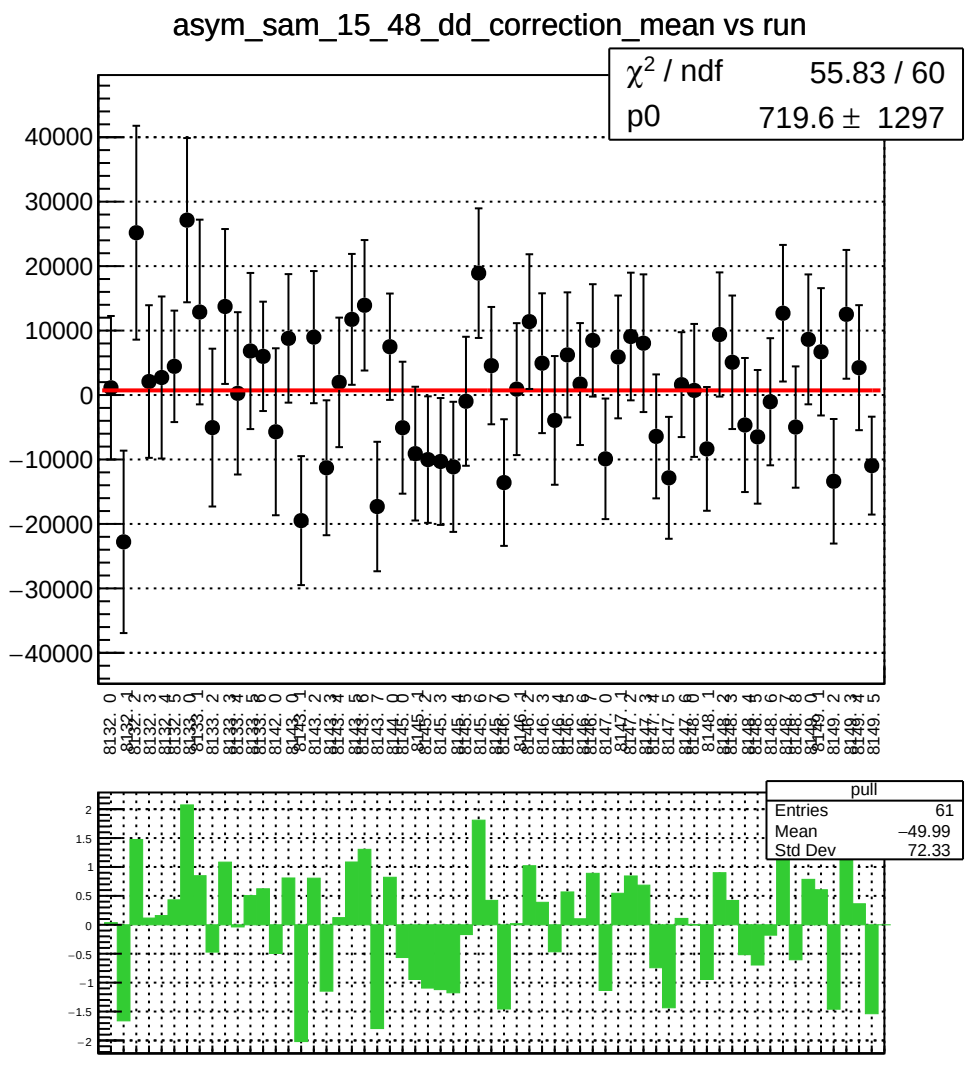

pull1D
Entries 61
Mean −0.0009694
Std Dev 0.9545

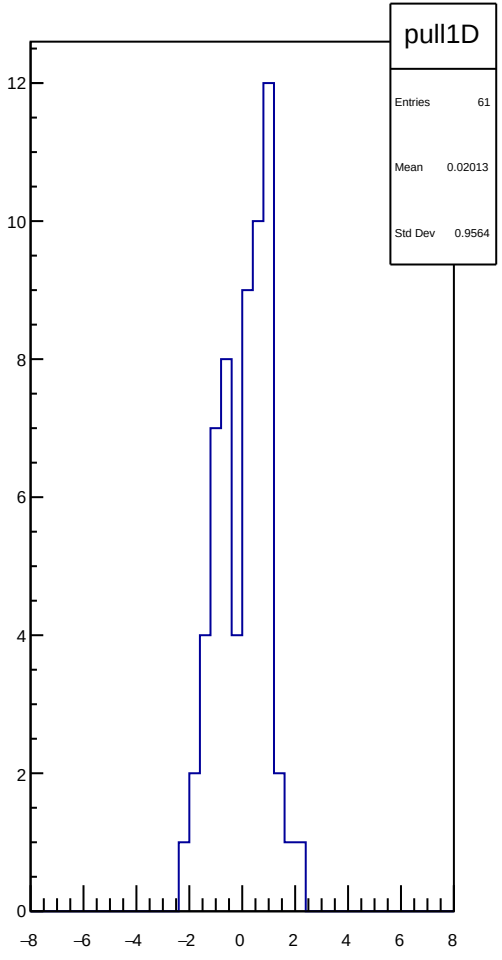

asym_sam_3726_avg_rms vs run
χ² / ndf 8848 / 60
p0 1584 ± 1.469
2400
2200
2000
1800
1600
1400

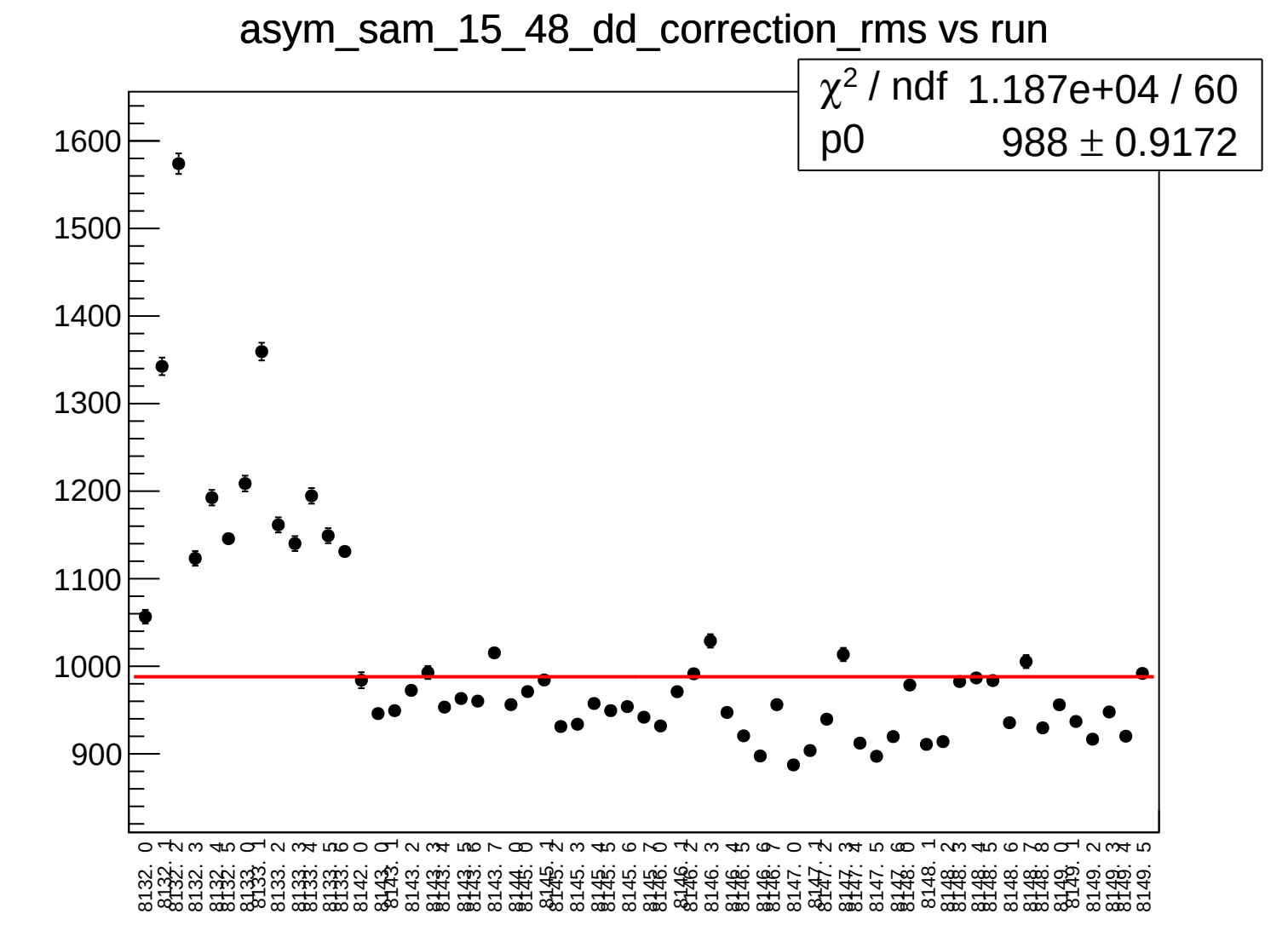

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 66.1 / 60
p0 34.85 ± 69.06
3000
2000
1000
0
−1000
−2000
pull
Entries 61
Mean 16.67
Std Dev 66.7
2
1
0
−1
−2

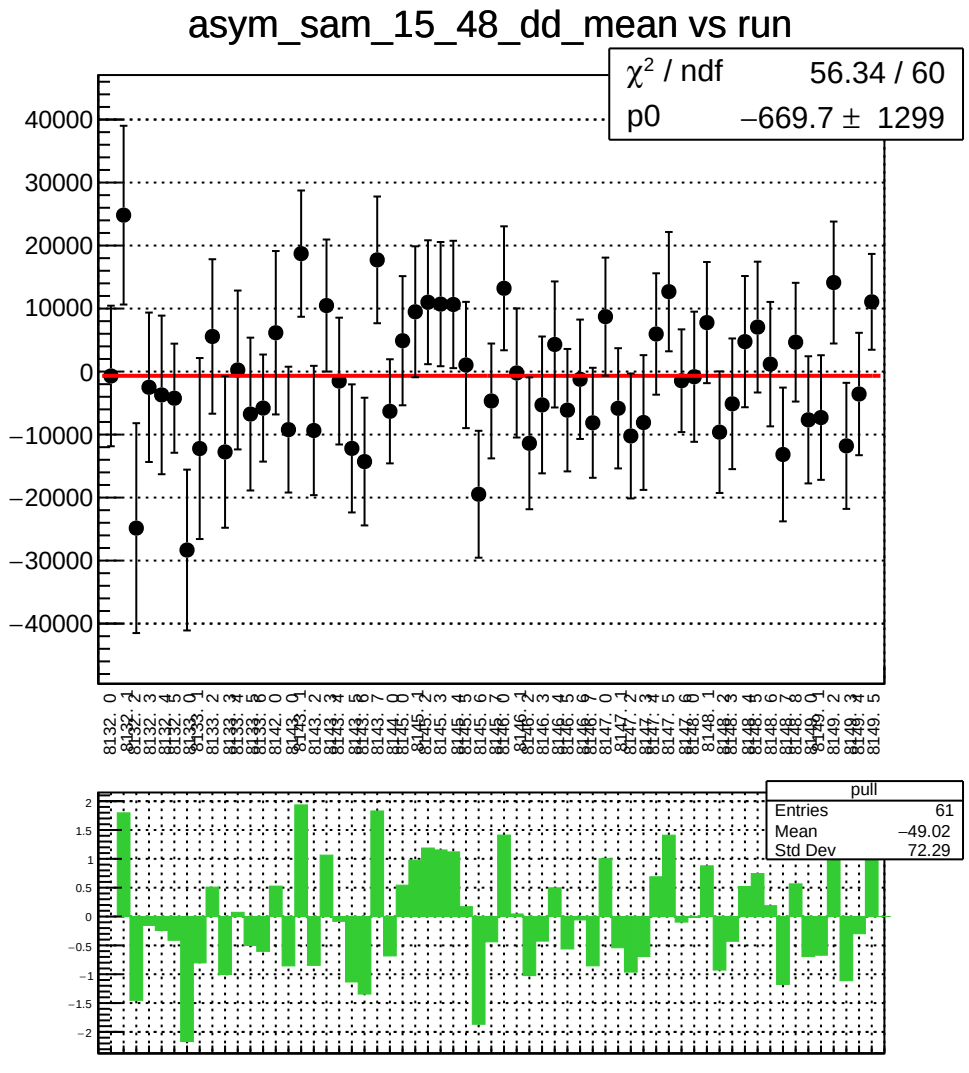

pull1D
Entries 61
Mean 0.01254
Std Dev 1.041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

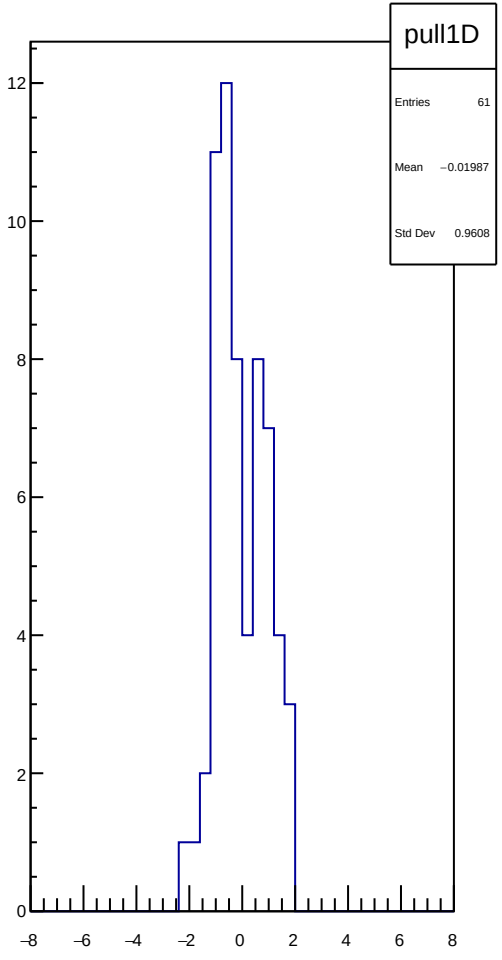

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.186e+04 / 60
p0 52.37 ± 0.04883
140
120
100
80
60
40

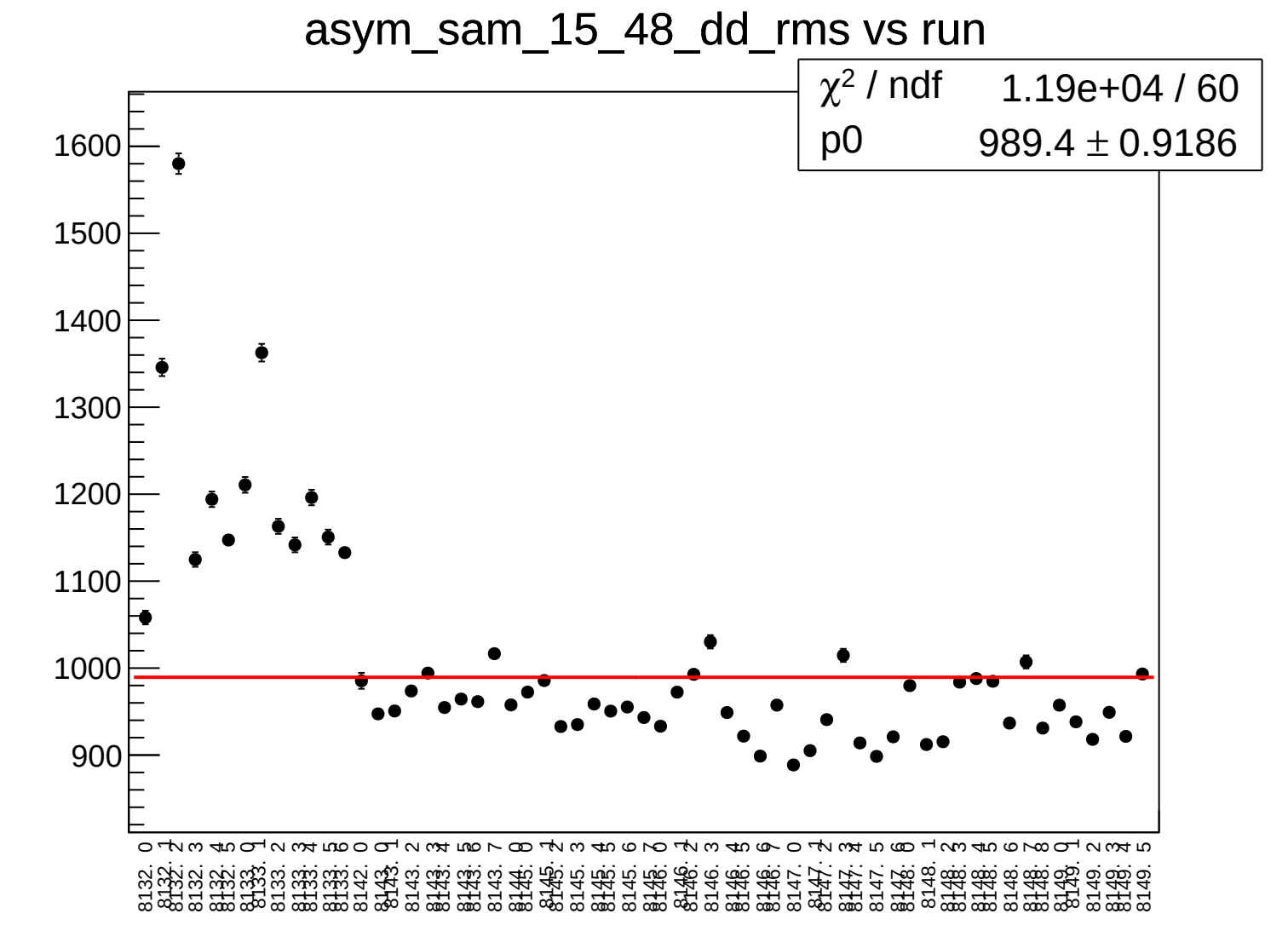

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 55.83 / 60
p0 719.6 ± 1297
pull
Entries 61
Mean −49.99
Std Dev 72.33

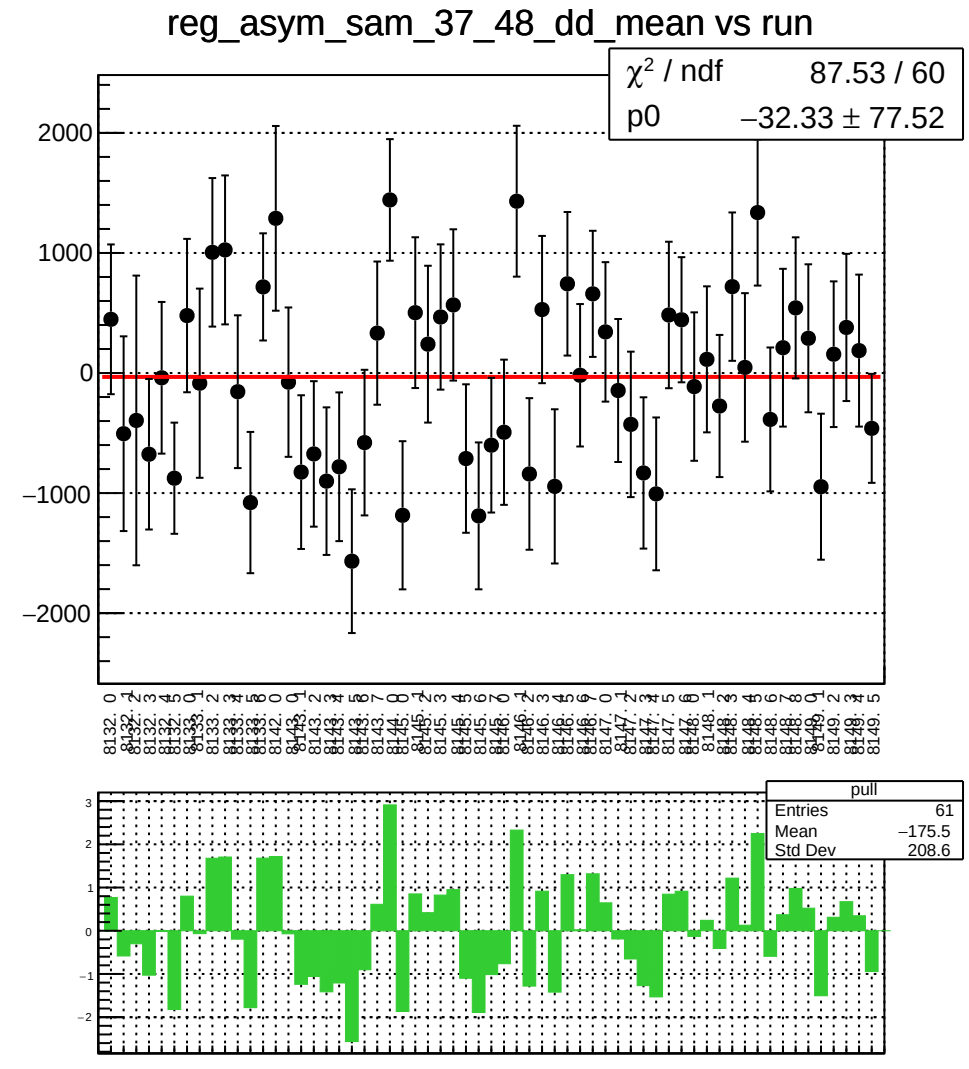

pull1D
Entries 61
Mean 0.02013
Std Dev 0.9564

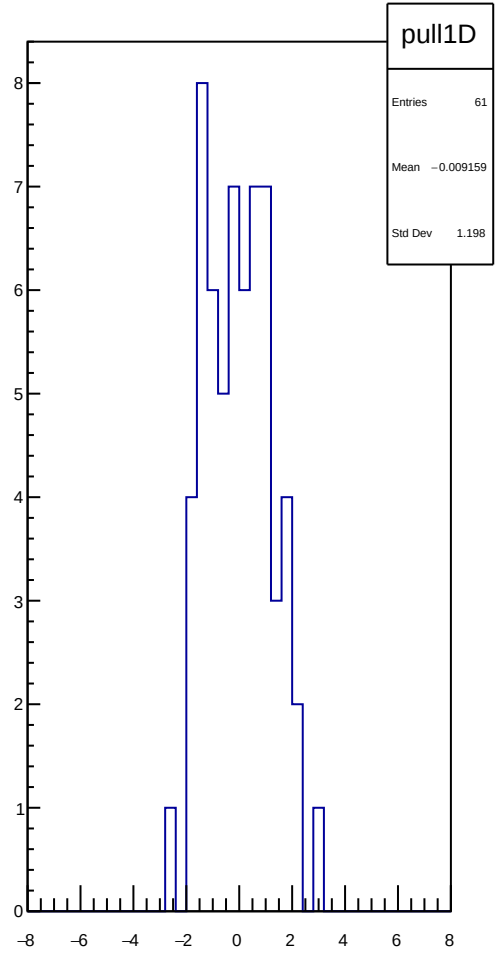

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 1.187e+04 / 60
p0 988 ± 0.9172
1600
1500
1400
1300
1200
1100
1000
900

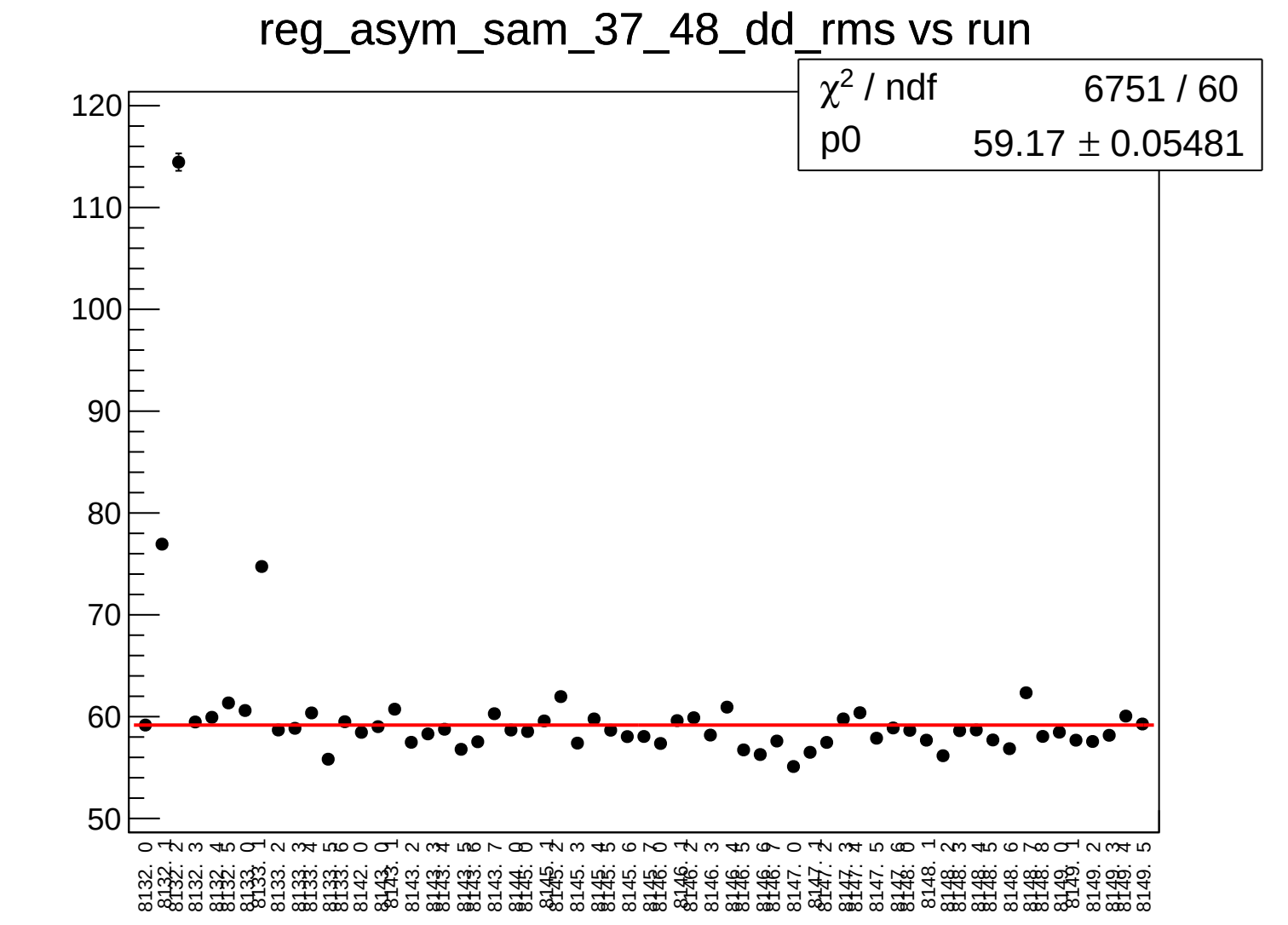

asym_sam_15_48_dd_mean vs run
χ² / ndf 56.34 / 60
p0 −669.7 ± 1299
pull
Entries 61
Mean −49.02
Std Dev 72.29

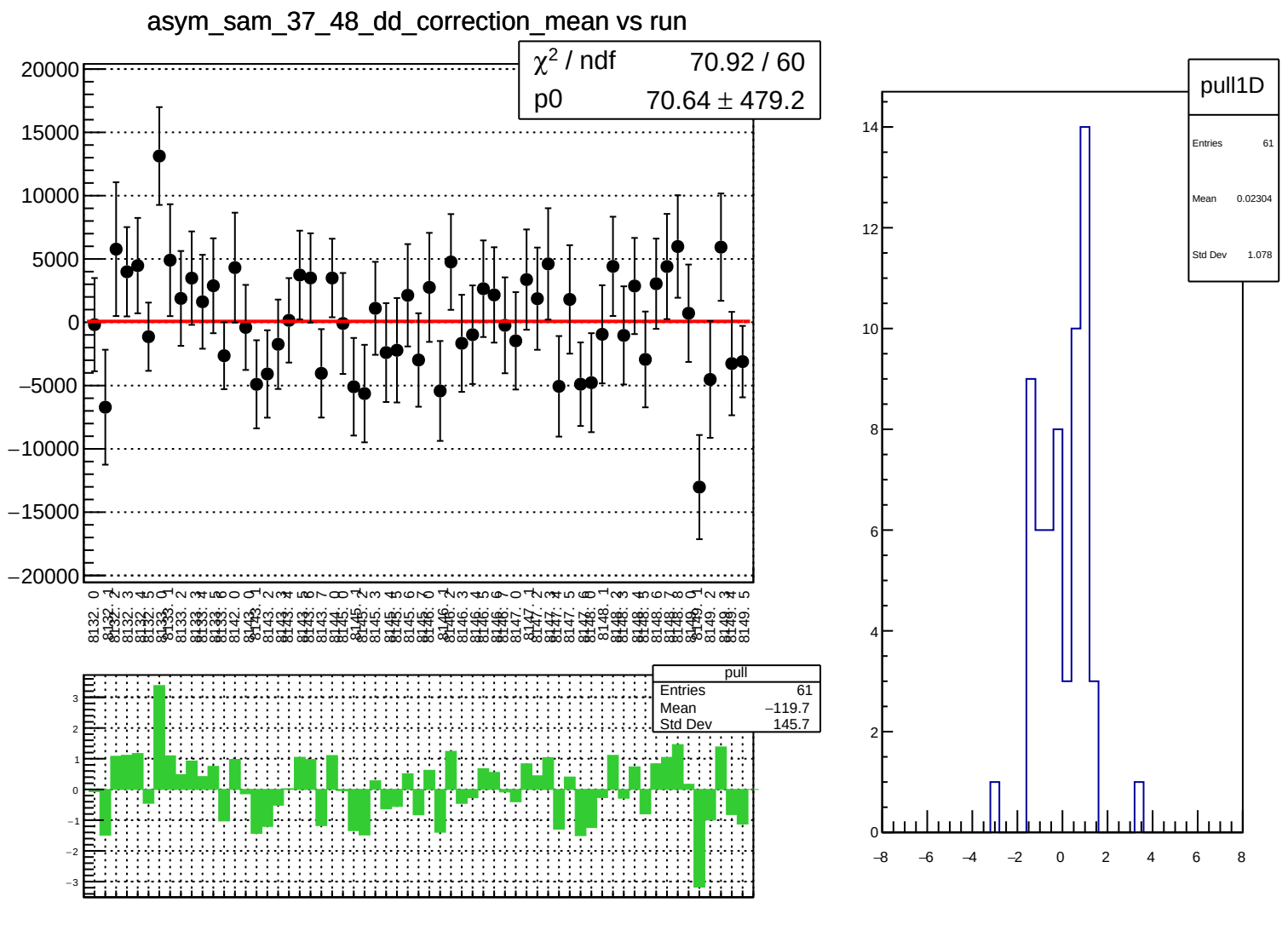

pull1D
Entries 61
Mean −0.01987
Std Dev 0.9608

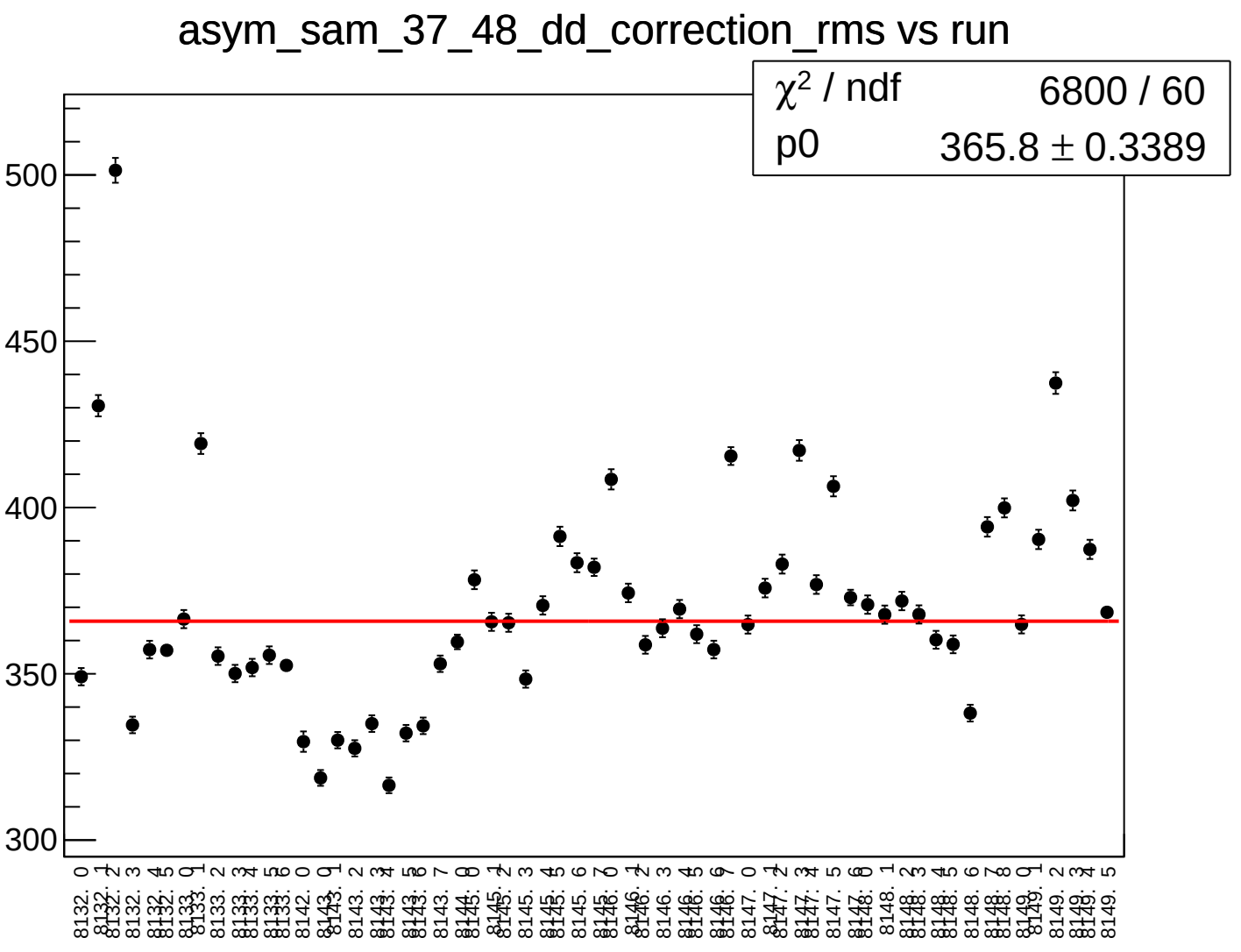

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.19e+04 / 60
p0 989.4 ± 0.9186
1600
1500
1400
1300
1200
1100
1000
900

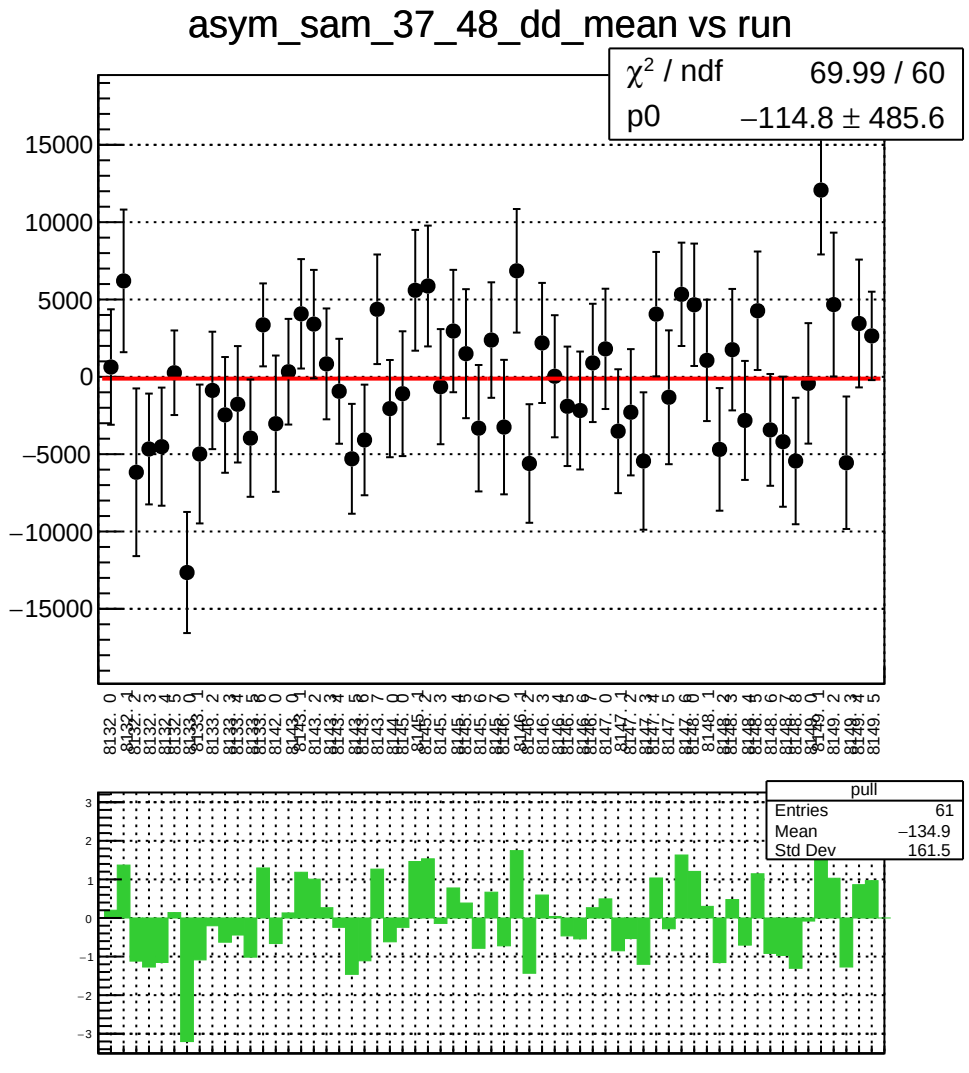

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 87.53 / 60
p0 −32.33 ± 77.52
2000
1000
0
−1000
−2000
pull
Entries 61
Mean −175.5
Std Dev 208.6
3
2
1
0
−1
−2

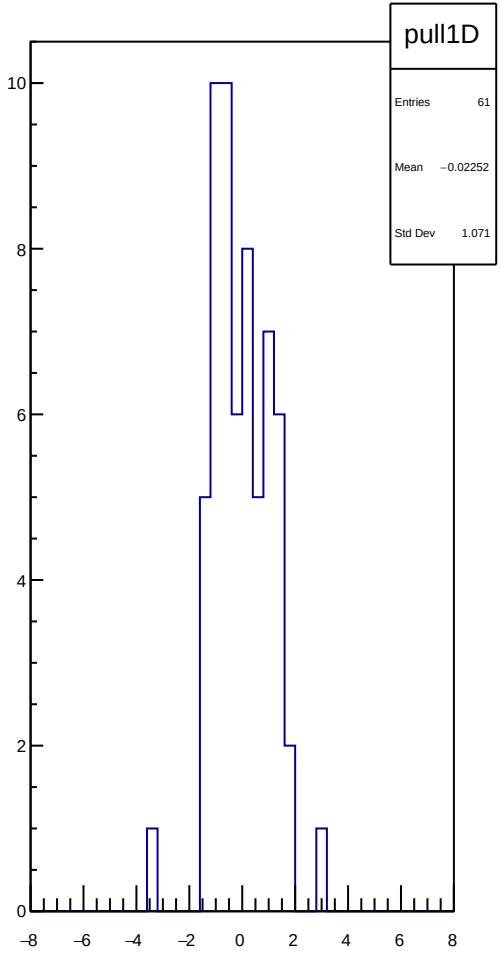

pull1D
Entries 61
Mean −0.009159
Std Dev 1.198
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

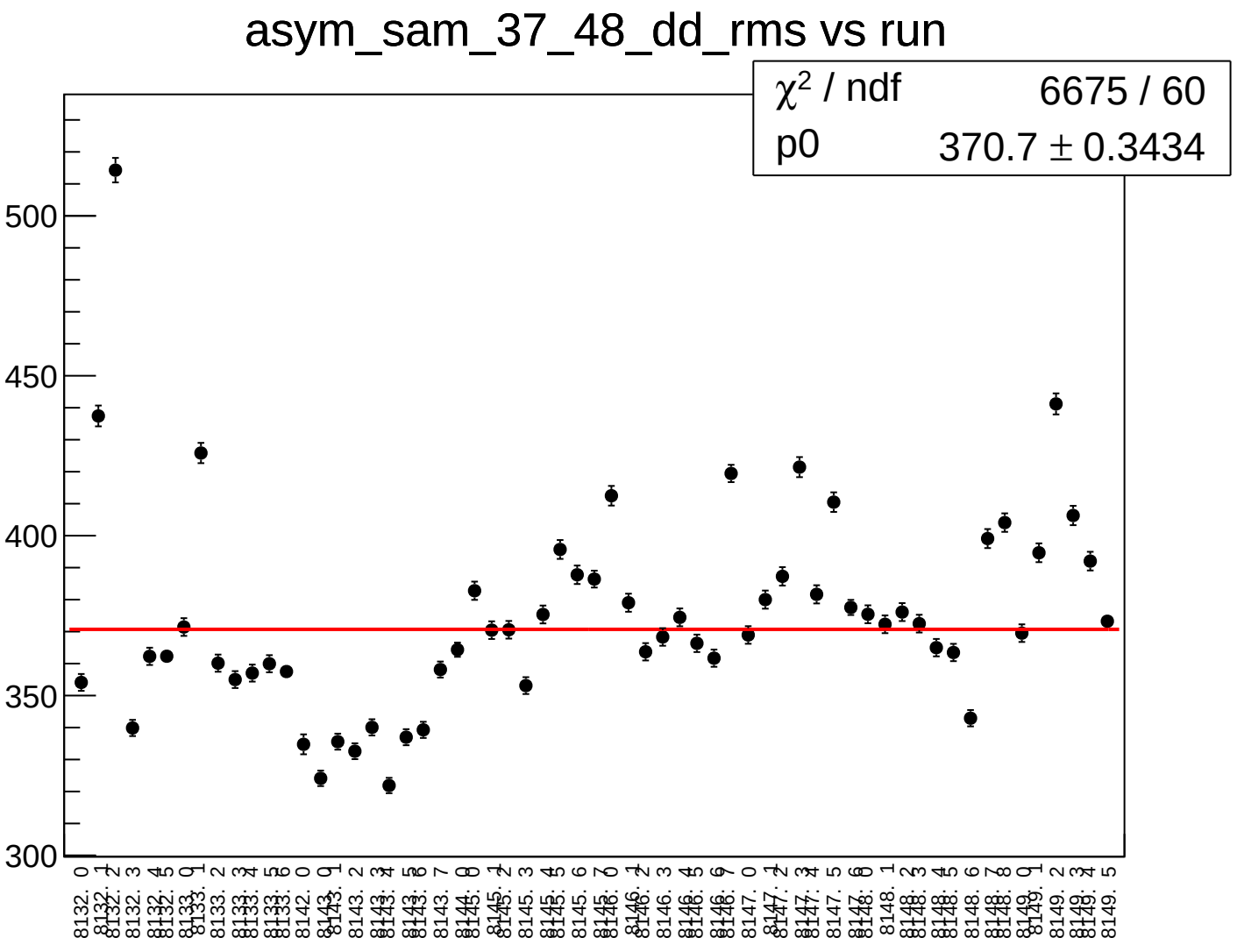

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 6751 / 60
p0 59.17 ± 0.05481
120
110
100
90
80
70
60
50

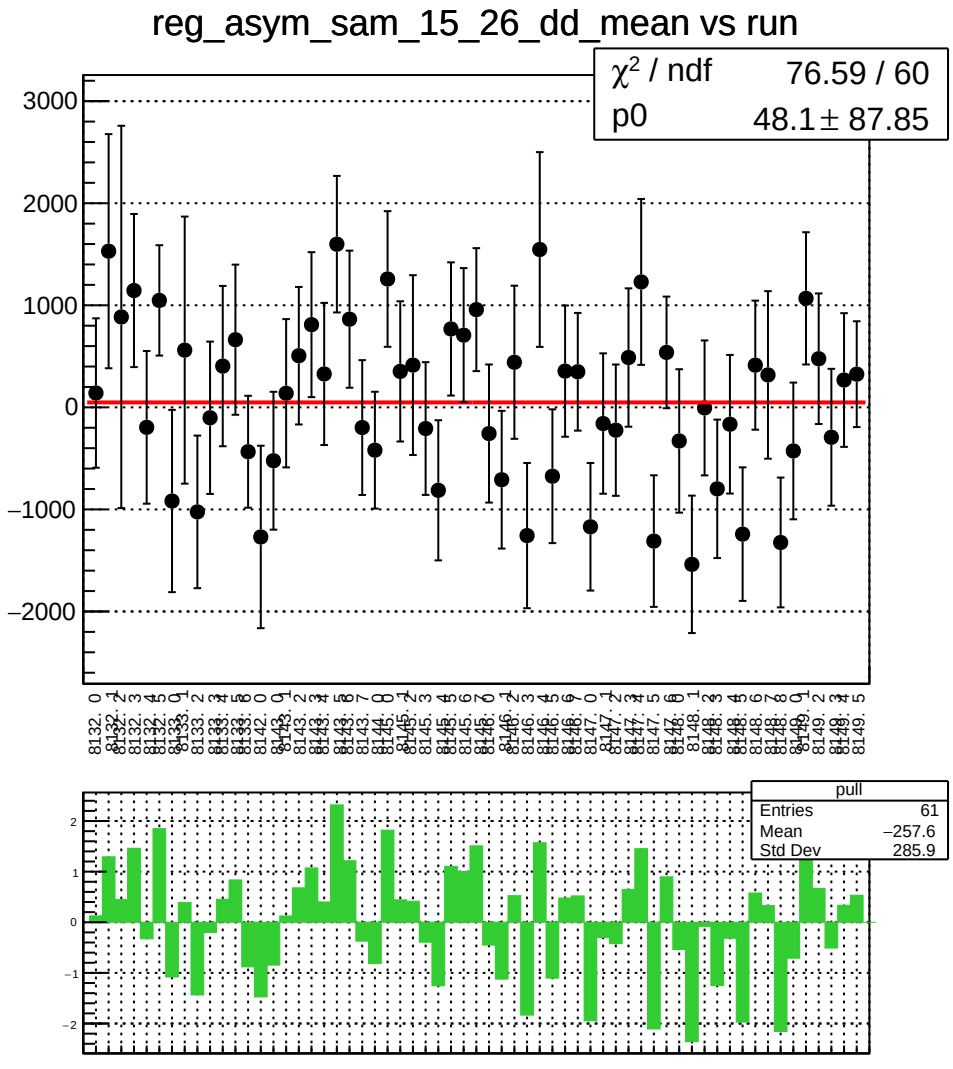

asym_sam_37_48_dd_correction_mean vs run
χ^2 / ndf 70.92 / 60
p0 70.64 ± 479.2
pull
Entries 61
Mean −119.7
Std Dev 145.7
pull1D
Entries 61
Mean 0.02304
Std Dev 1.078

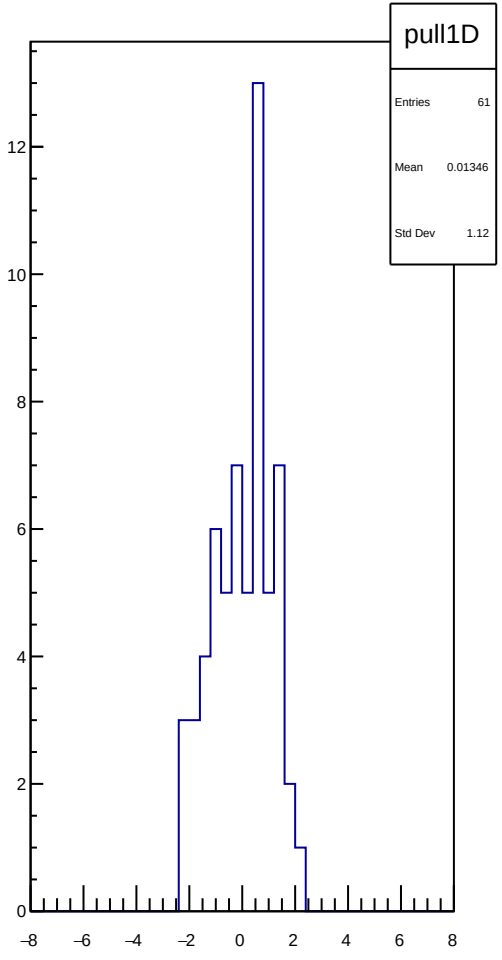

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 6800 / 60
p0 365.8 ± 0.3389
500
450
400
350
300

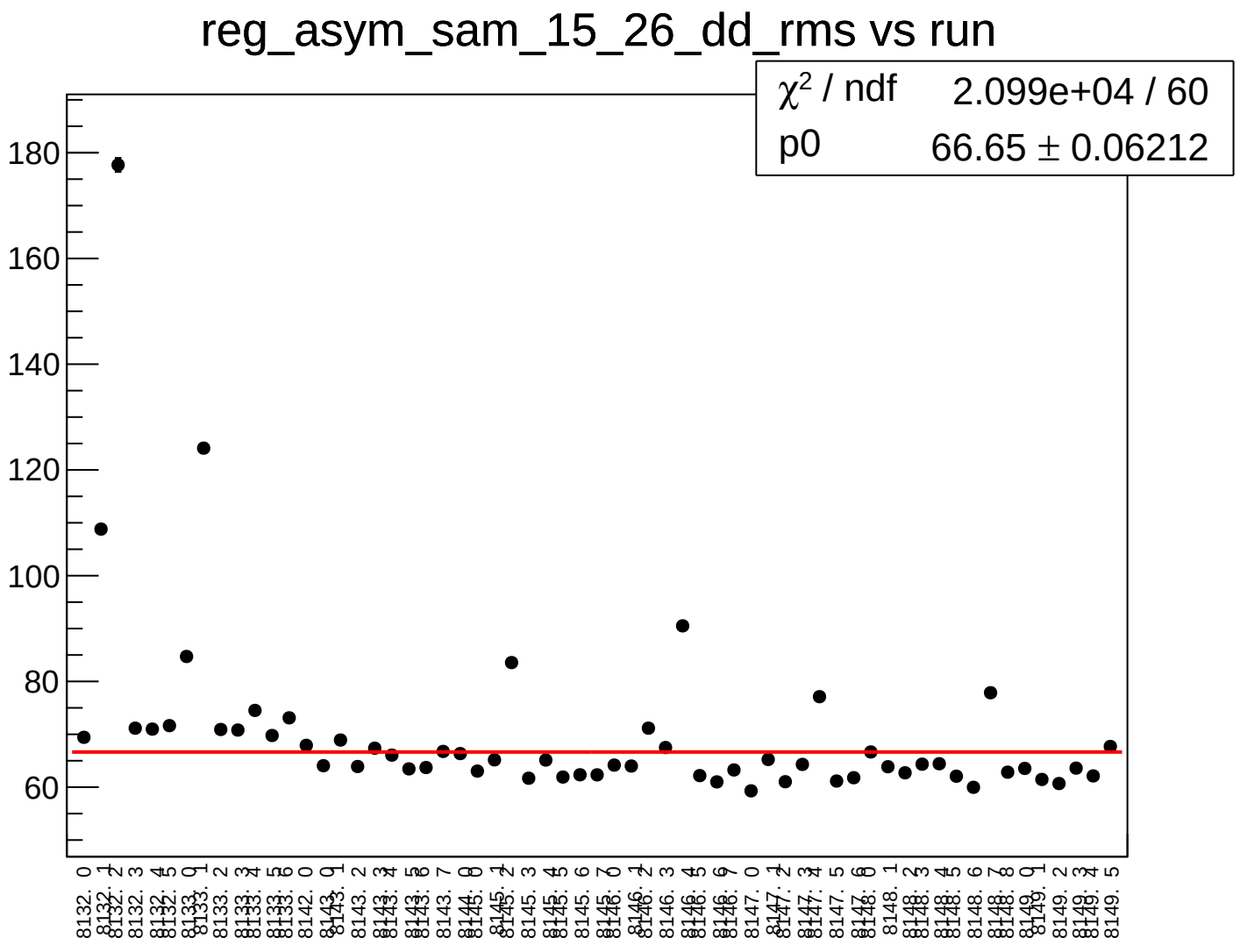

asym_sam_37_48_dd_mean vs run
χ² / ndf 69.99 / 60
p0 −114.8 ± 485.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 61
Mean −134.9
Std Dev 161.5
3
2
1
0
−1
−2
−3

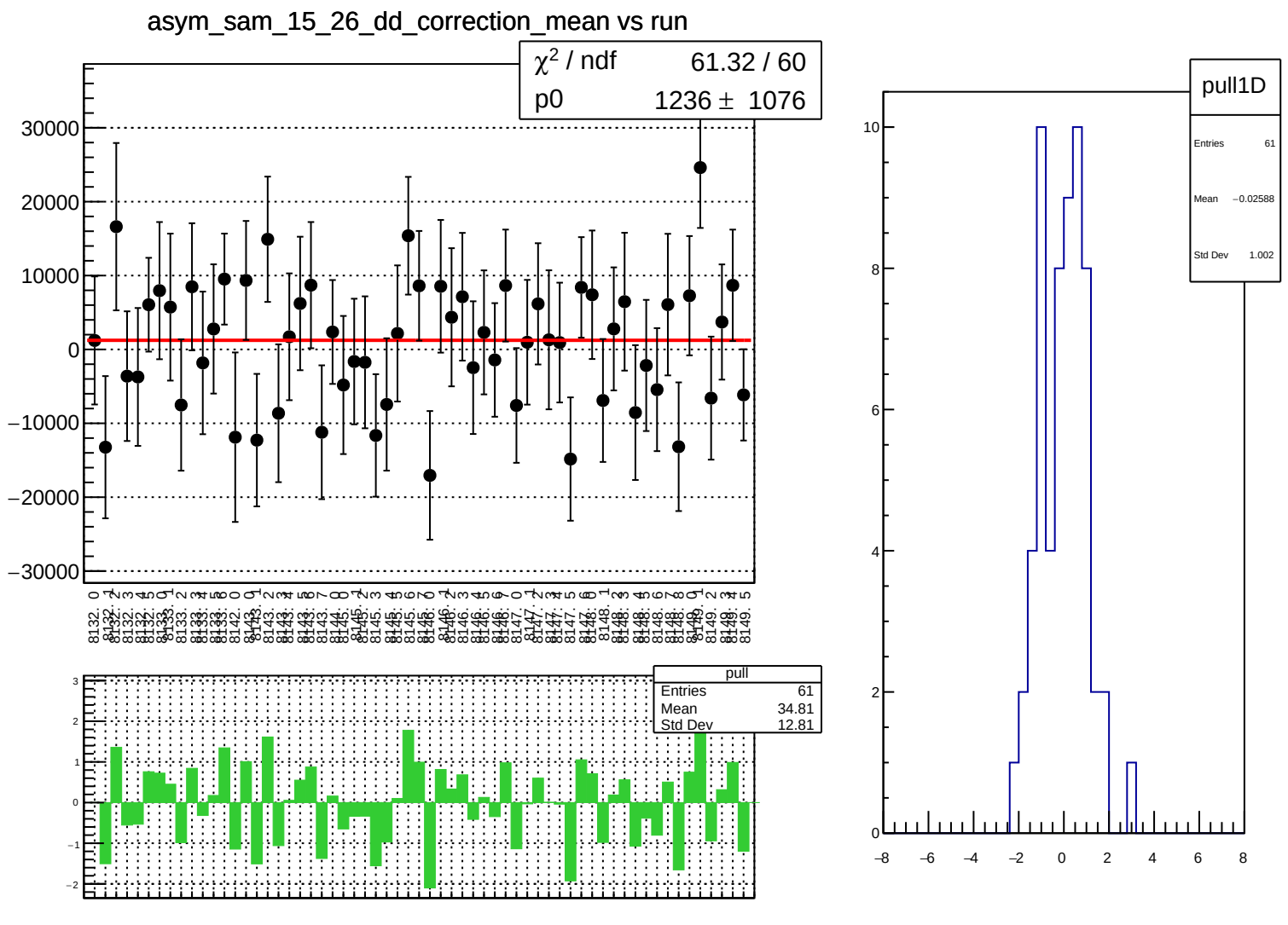

pull1D
Entries 61
Mean −0.02252
Std Dev 1.071
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

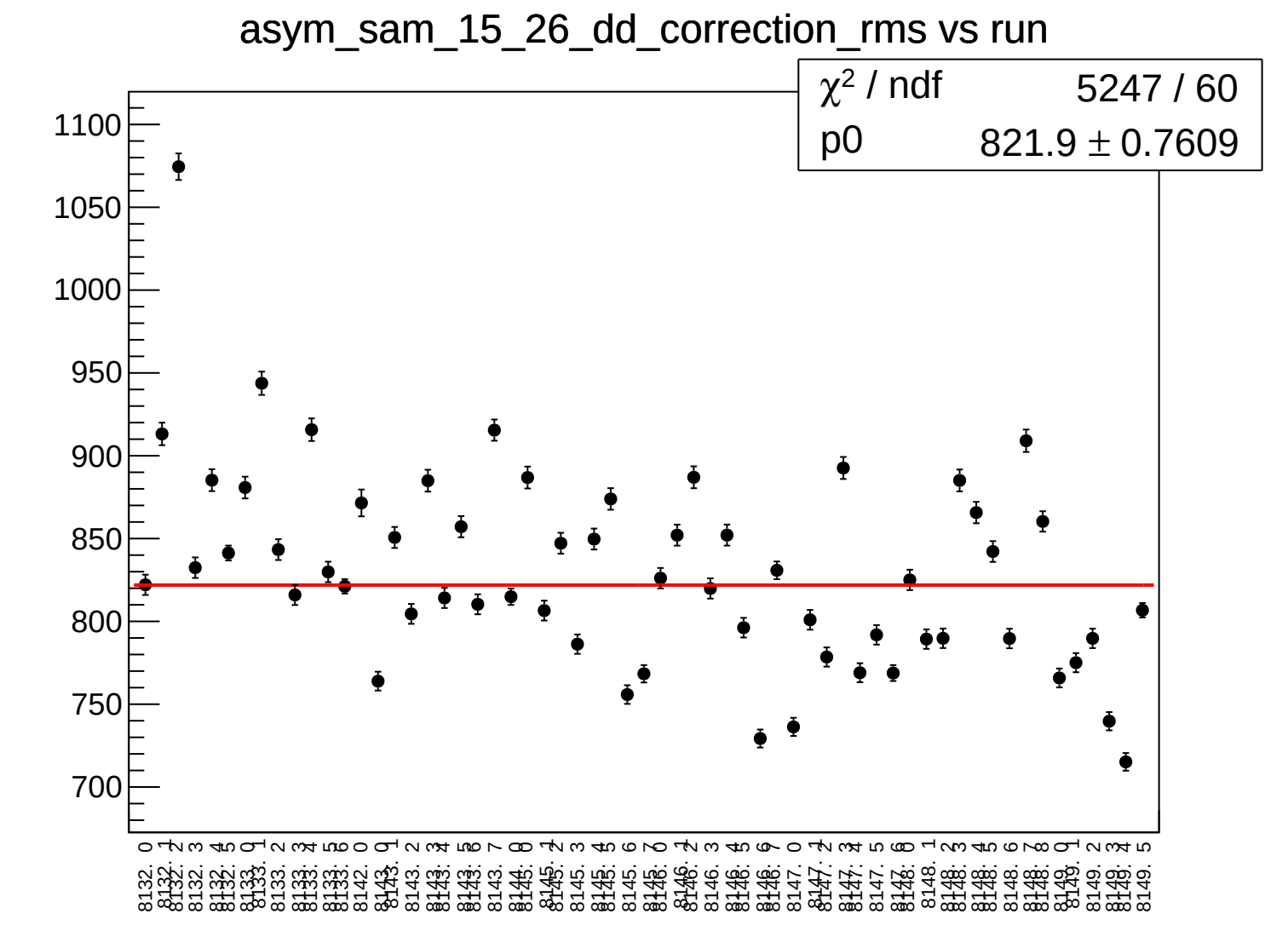

asym_sam_37_48_dd_rms vs run
χ² / ndf 6675 / 60
p0 370.7 ± 0.3434
500
450
400
350
300

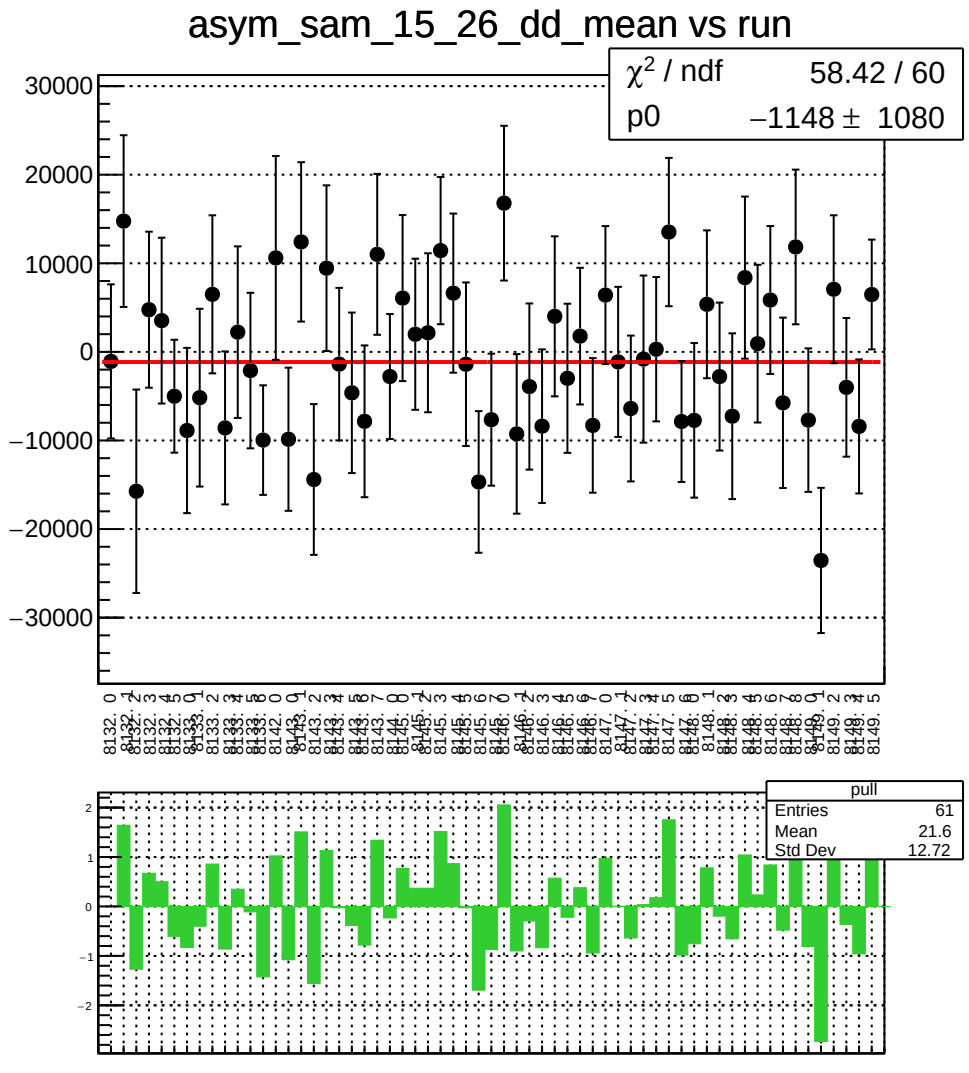

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 76.59 / 60
p0 48.1 ± 87.85
3000
2000
1000
0
−1000
−2000
pull
Entries 61
Mean −257.6
Std Dev 285.9
2
1
0
−1
−2

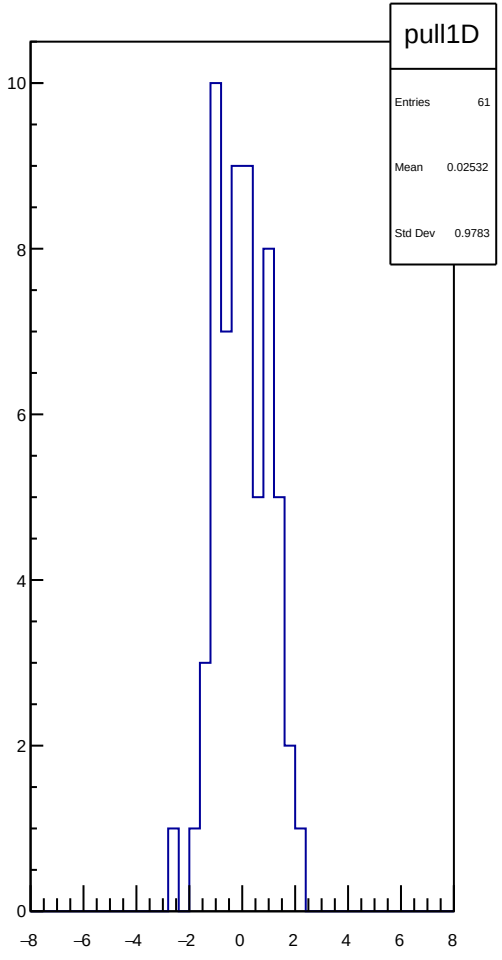

pull1D
Entries 61
Mean 0.01346
Std Dev 1.12
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

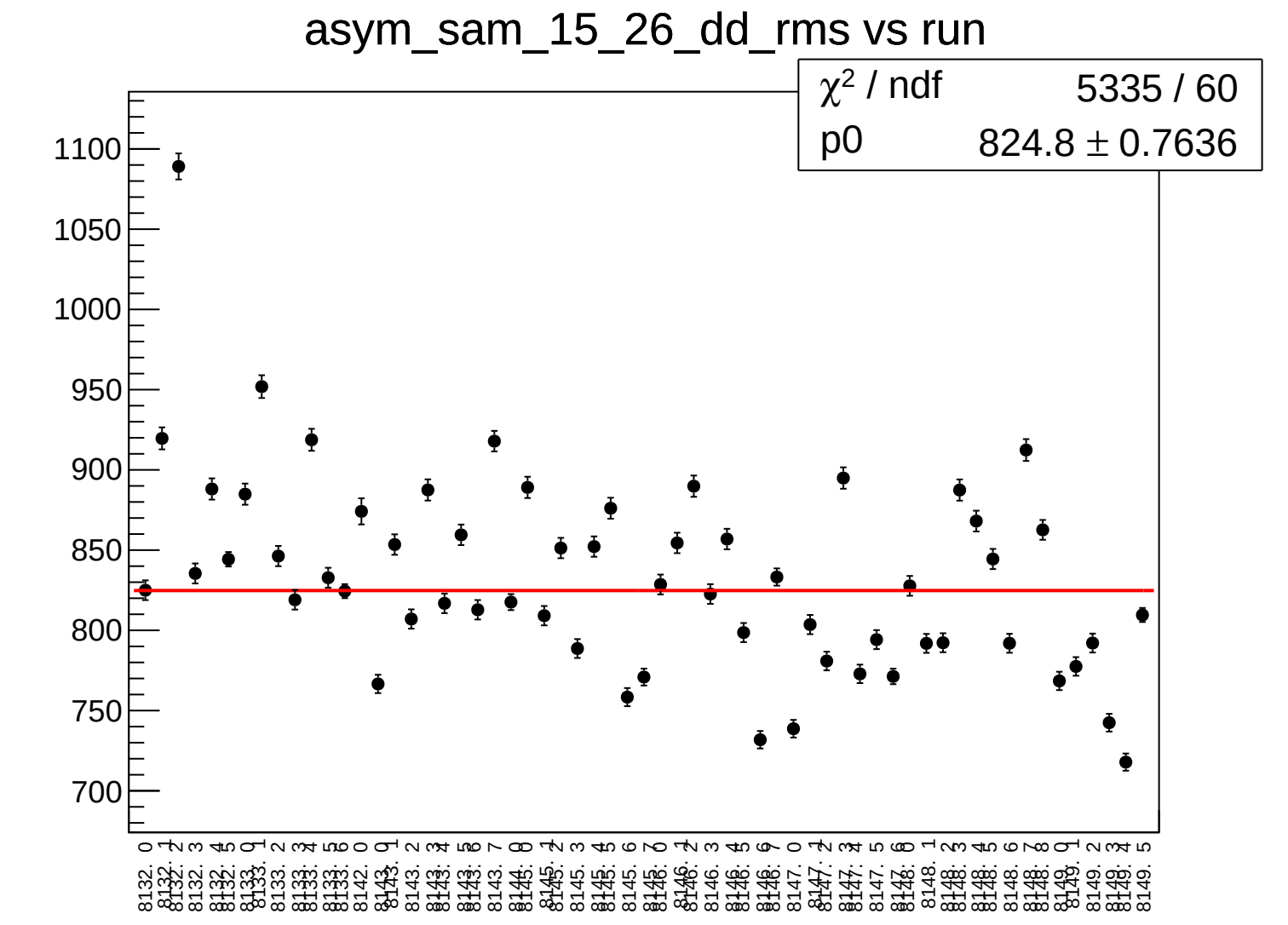

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.099e+04 / 60
p0 66.65 ± 0.06212
180
160
140
120
100
80
60

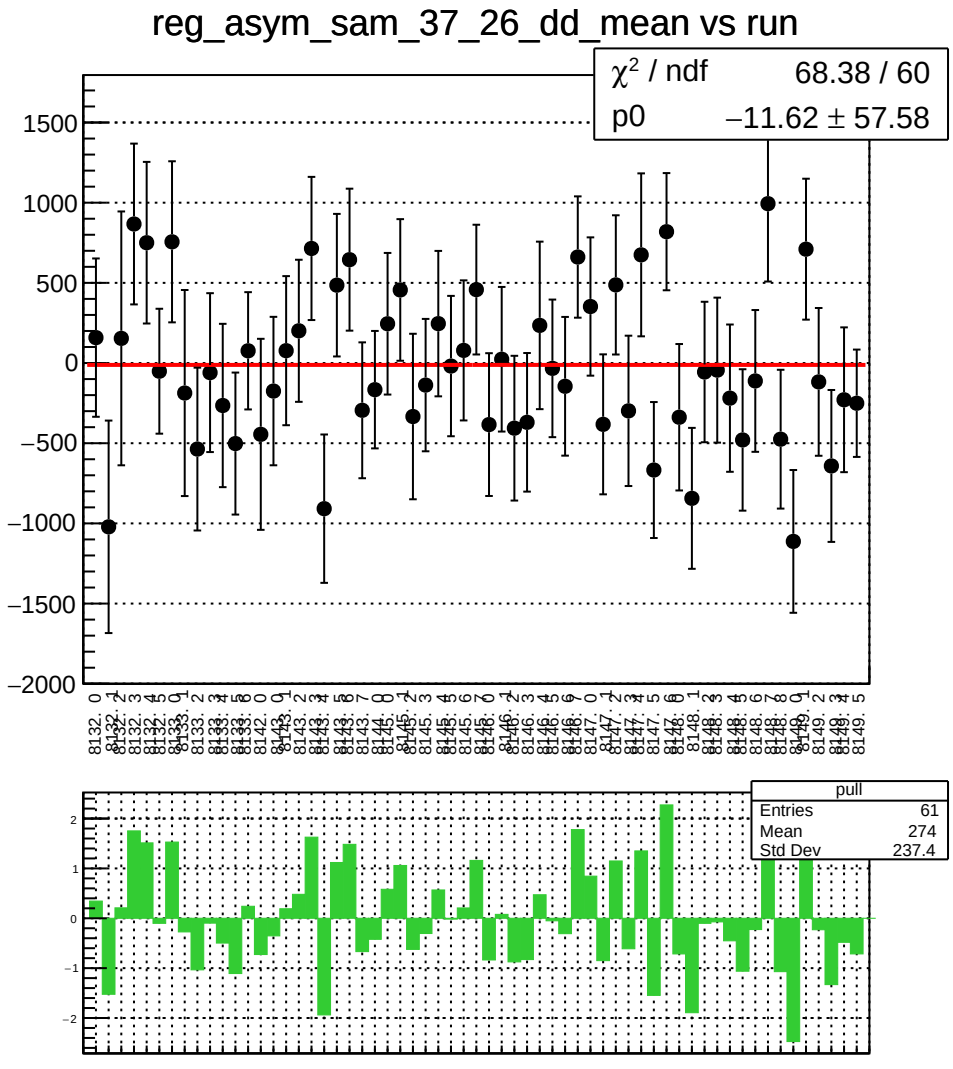

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 61.32 / 60
p0 1236 ± 1076
pull
Entries 61
Mean 34.81
Std Dev 12.81
pull1D
Entries 61
Mean −0.02588
Std Dev 1.002

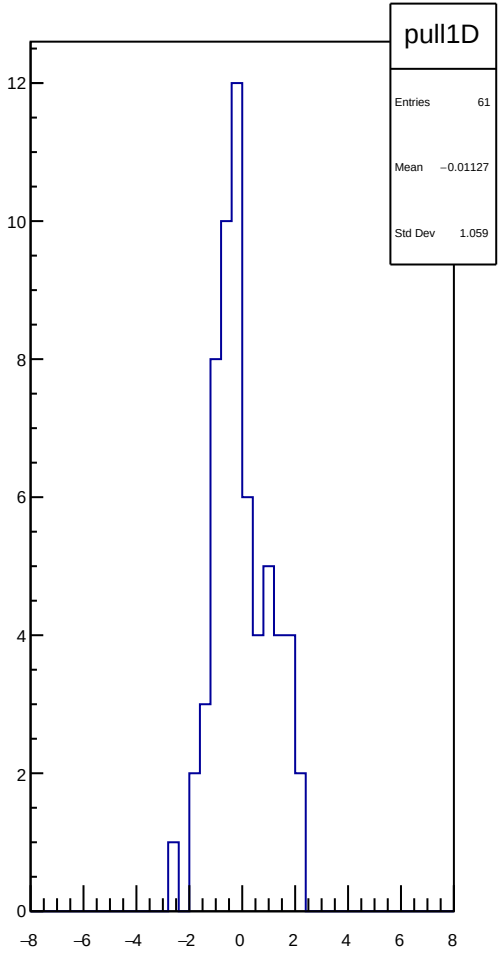

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 5247 / 60
p0 821.9 ± 0.7609
1100
1050
1000
950
900
850
800
750
700

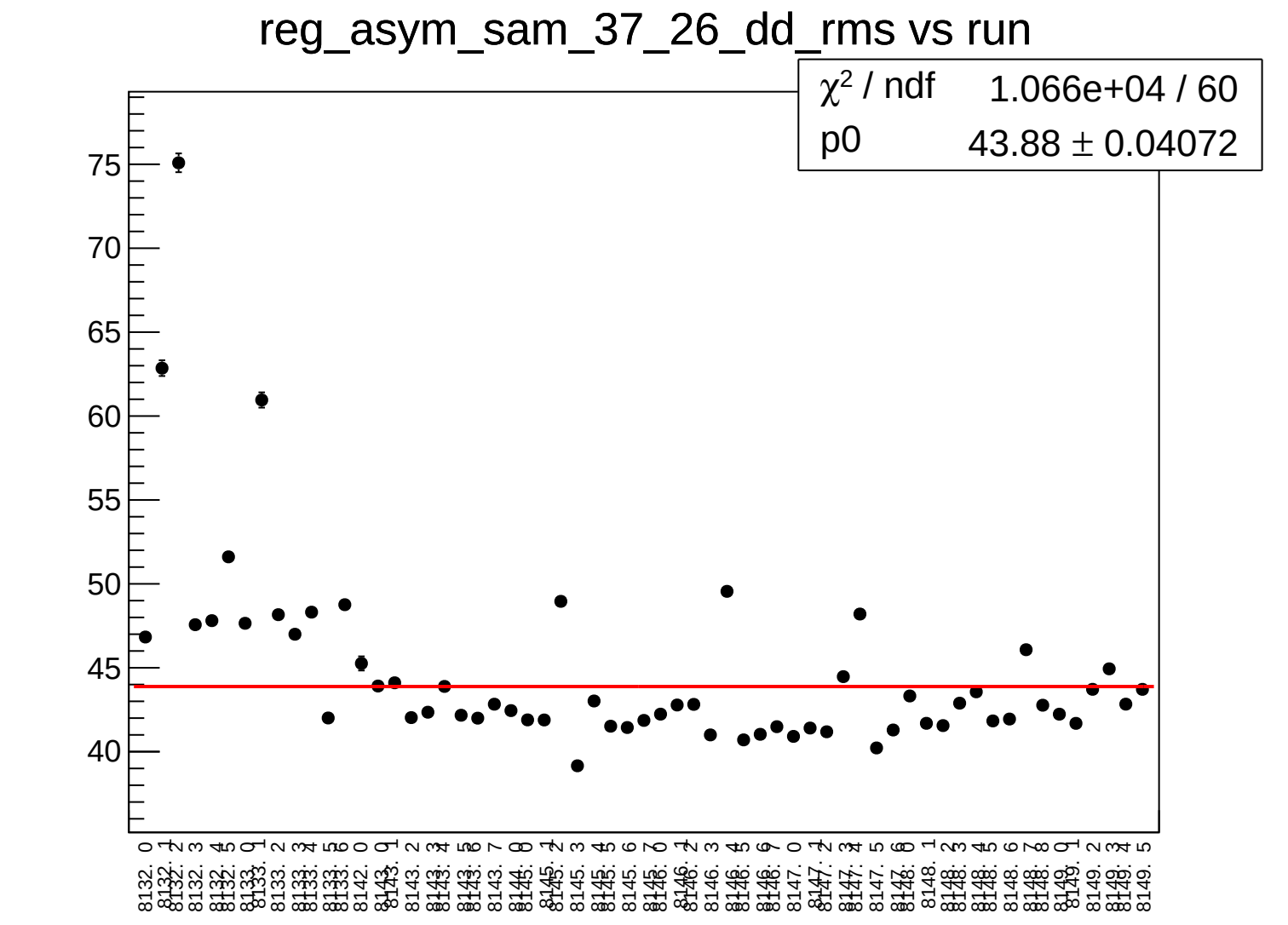

asym_sam_15_26_dd_mean vs run
χ² / ndf 58.42 / 60
p0 −1148 ± 1080
pull
Entries 61
Mean 21.6
Std Dev 12.72

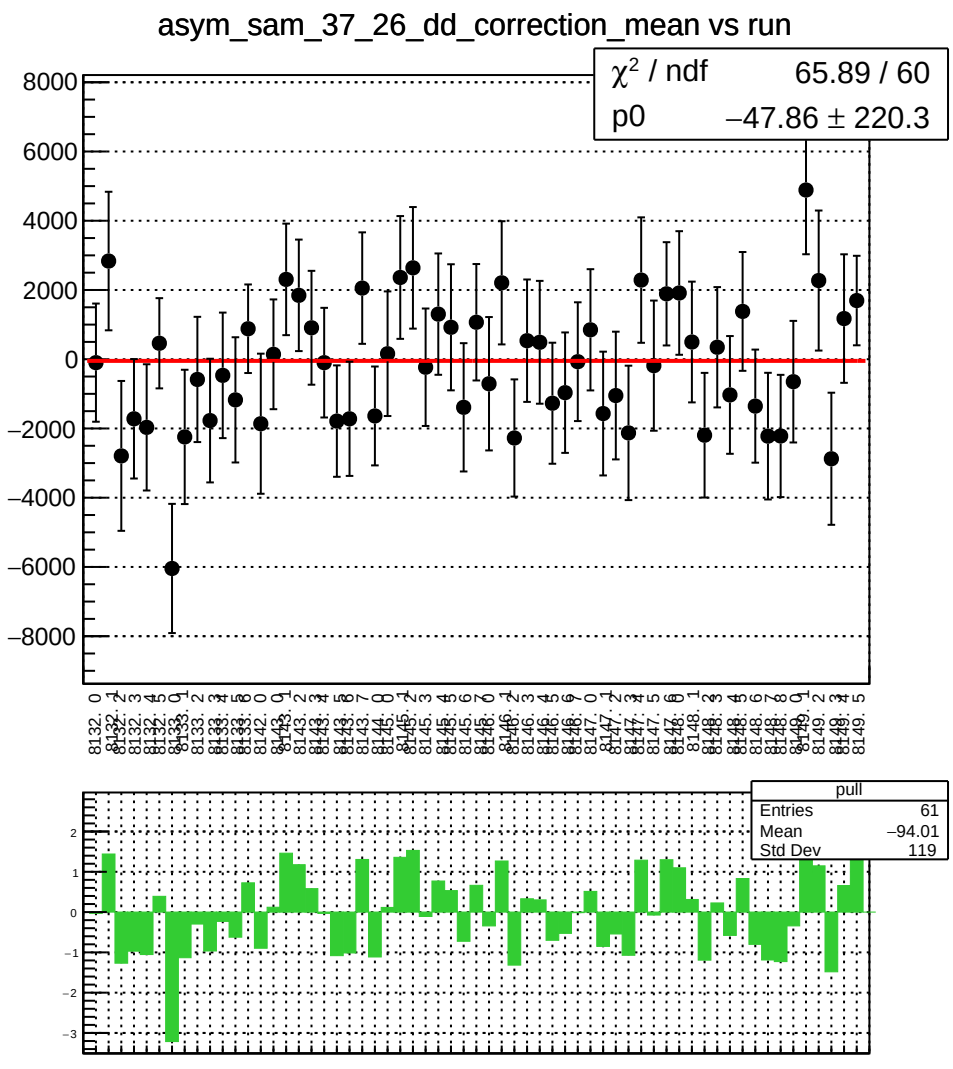

pull1D
Entries 61
Mean 0.02532
Std Dev 0.9783

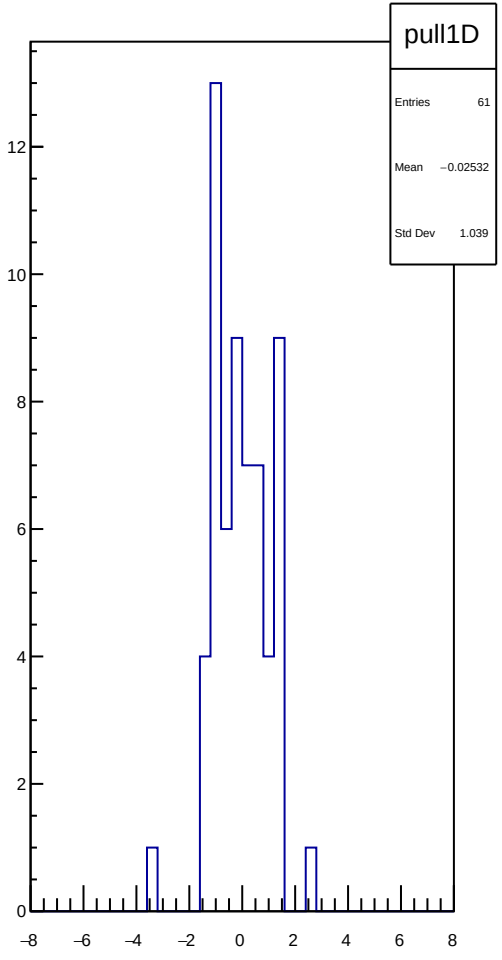

asym_sam_15_26_dd_rms vs run
χ² / ndf 5335 / 60
p0 824.8 ± 0.7636
1100
1050
1000
950
900
850
800
750
700

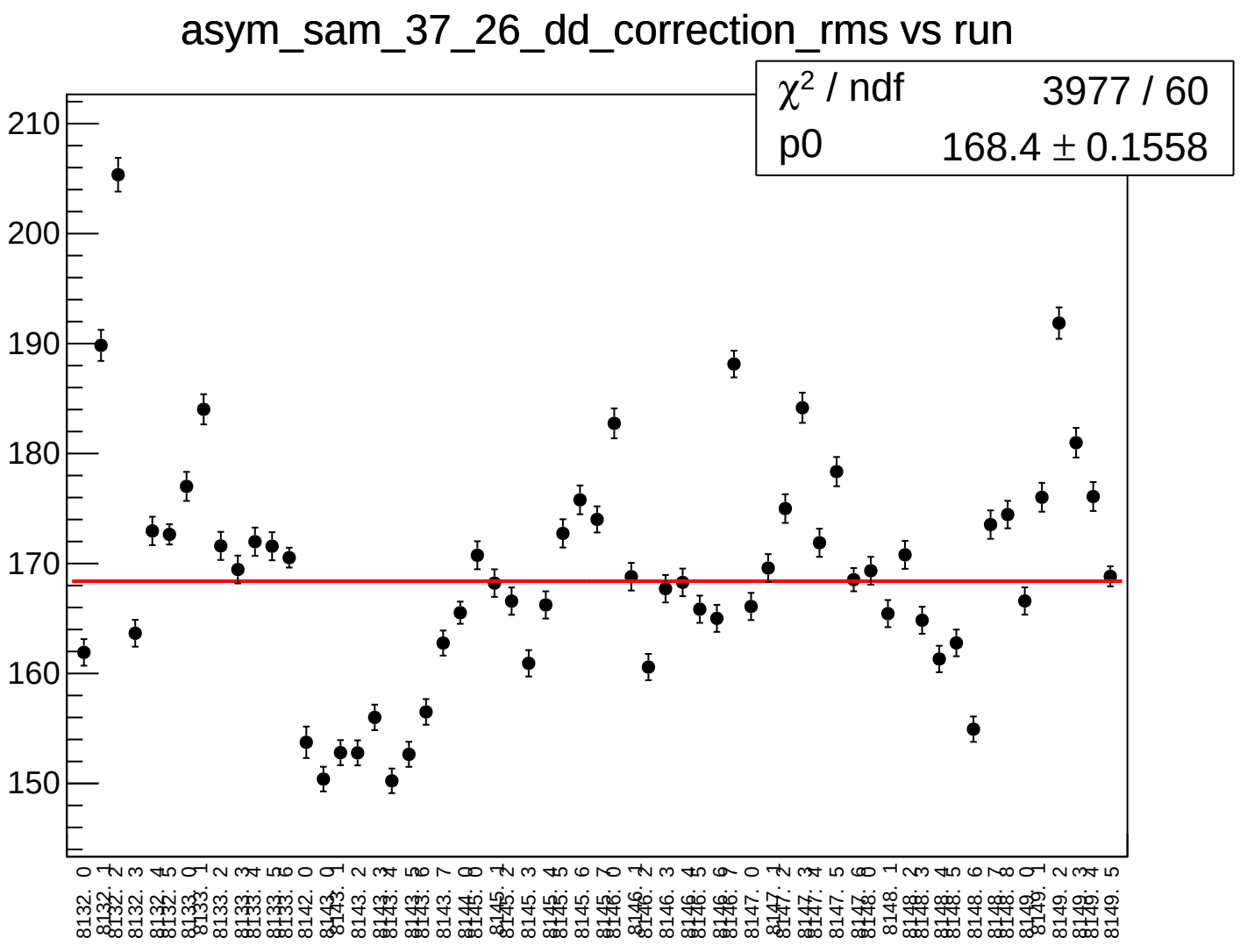

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 68.38 / 60
p0 −11.62 ± 57.58
pull
Entries 61
Mean 274
Std Dev 237.4

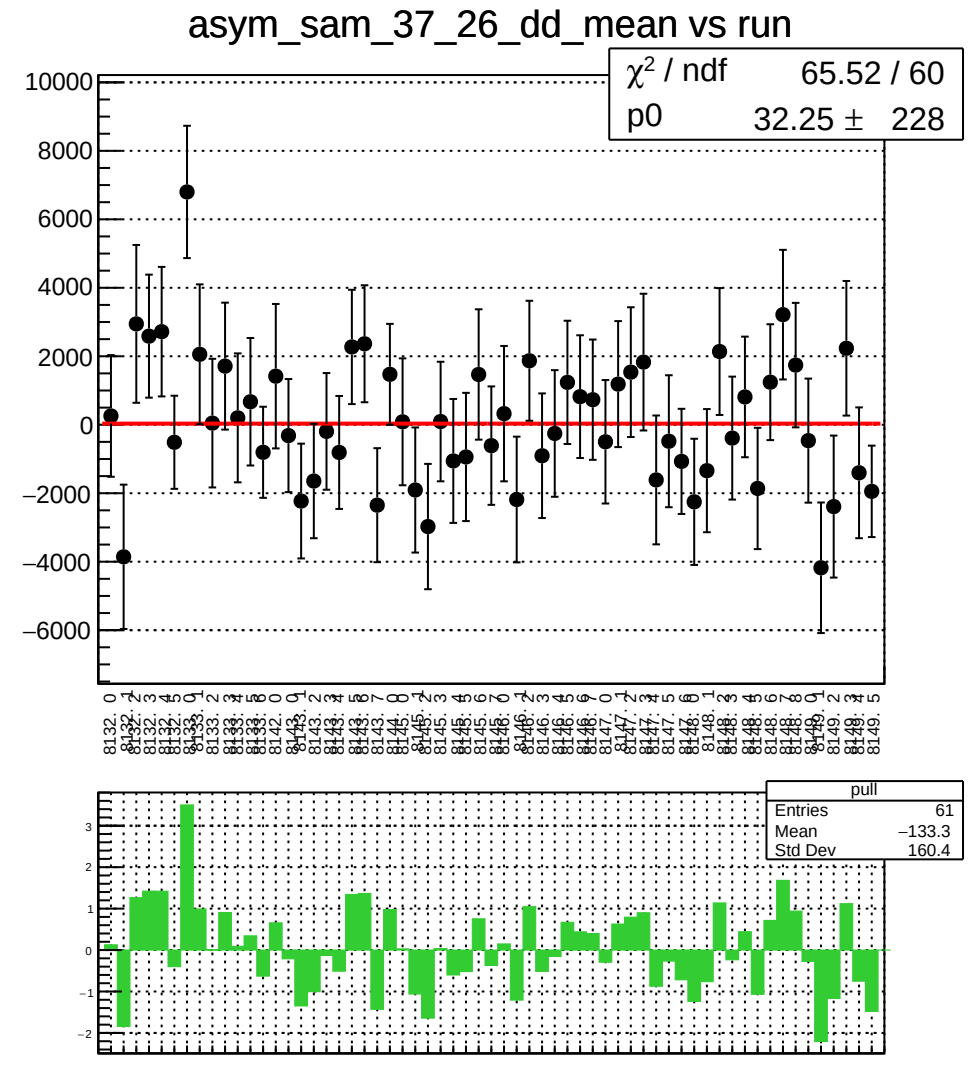

pull1D
Entries 61
Mean −0.01127
Std Dev 1.059

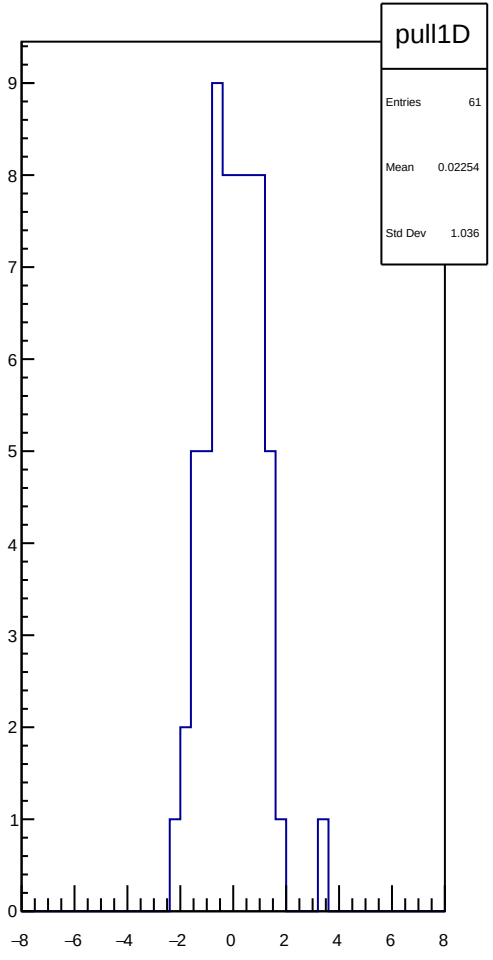

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.066e+04 / 60
p0 43.88 ± 0.04072
75
70
65
60
55
50
45
40

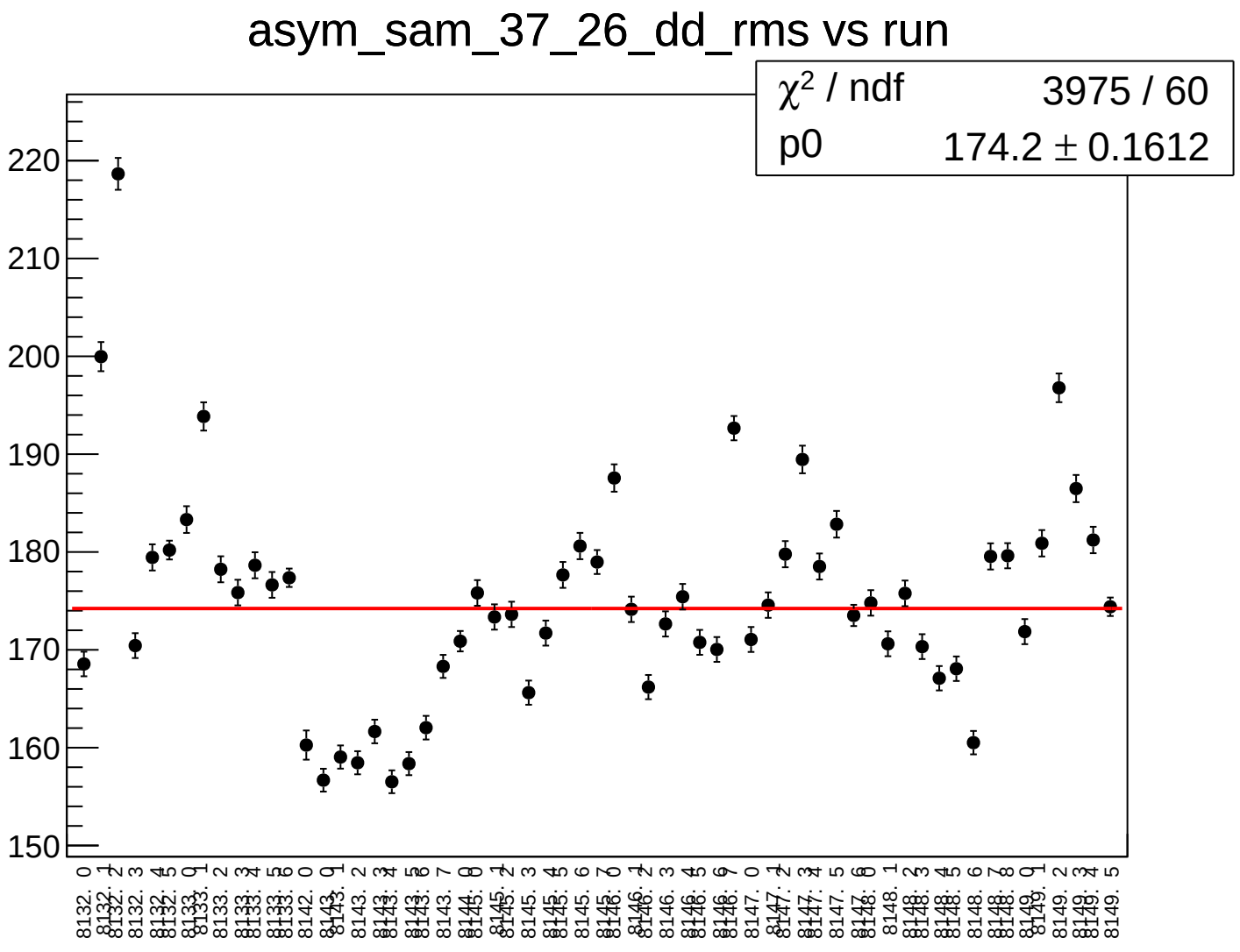

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 65.89 / 60
p0 −47.86 ± 220.3
pull
Entries 61
Mean −94.01
Std Dev 119

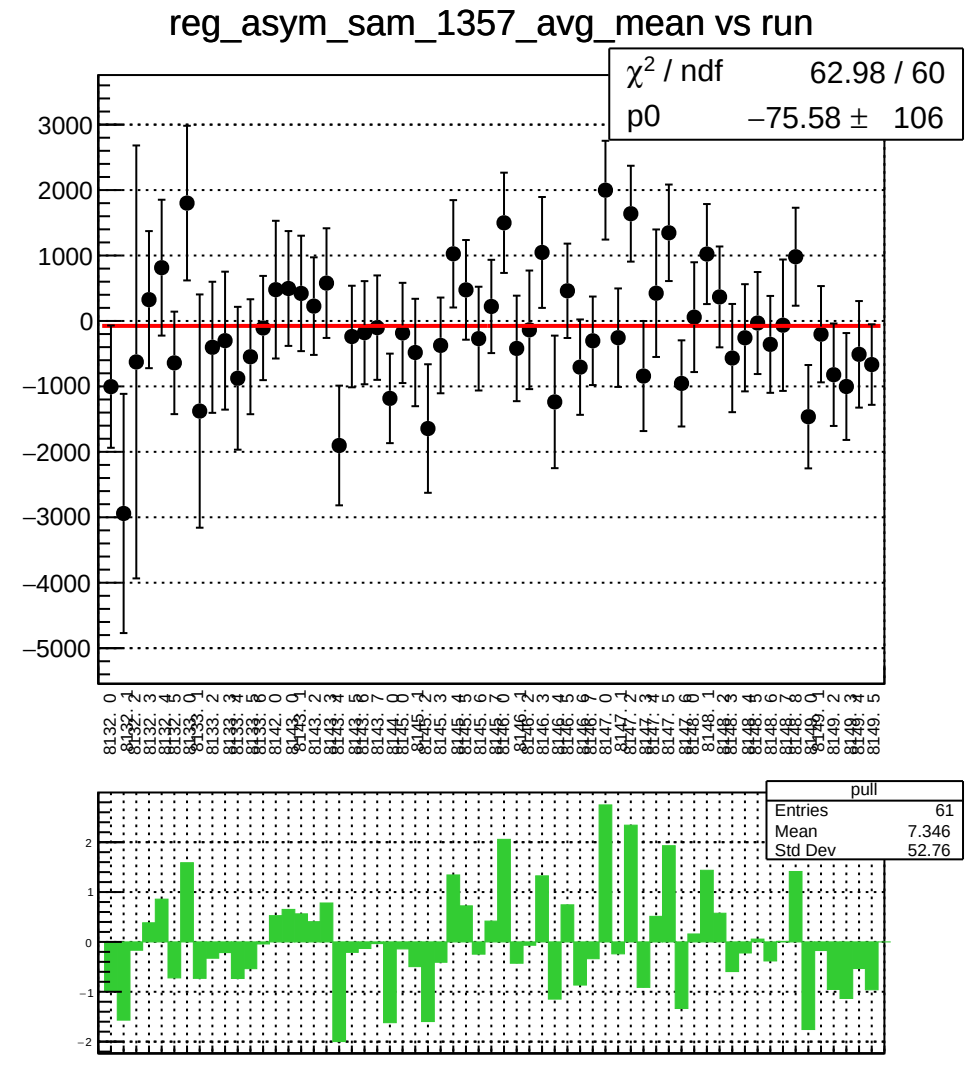

pull1D
Entries 61
Mean −0.02532
Std Dev 1.039

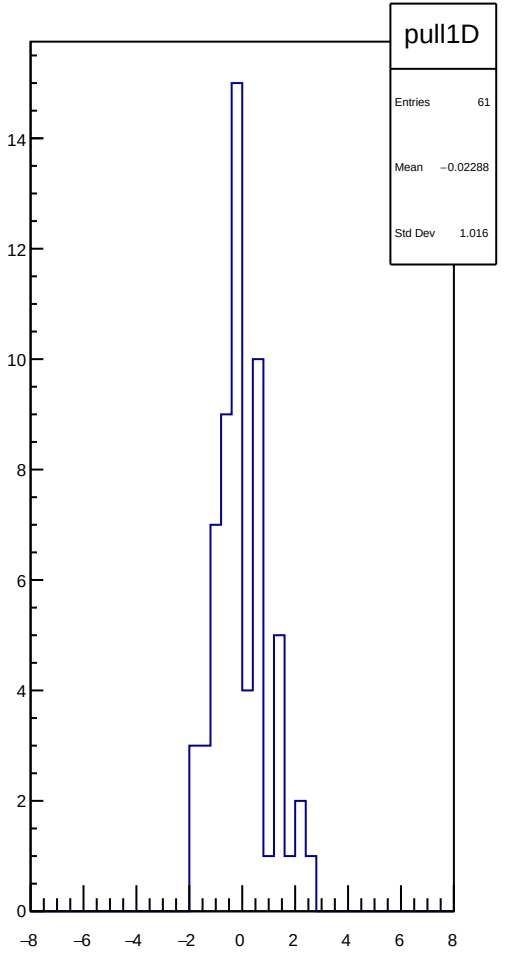

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 3977 / 60
p0 168.4 ± 0.1558
210
200
190
180
170
160
150

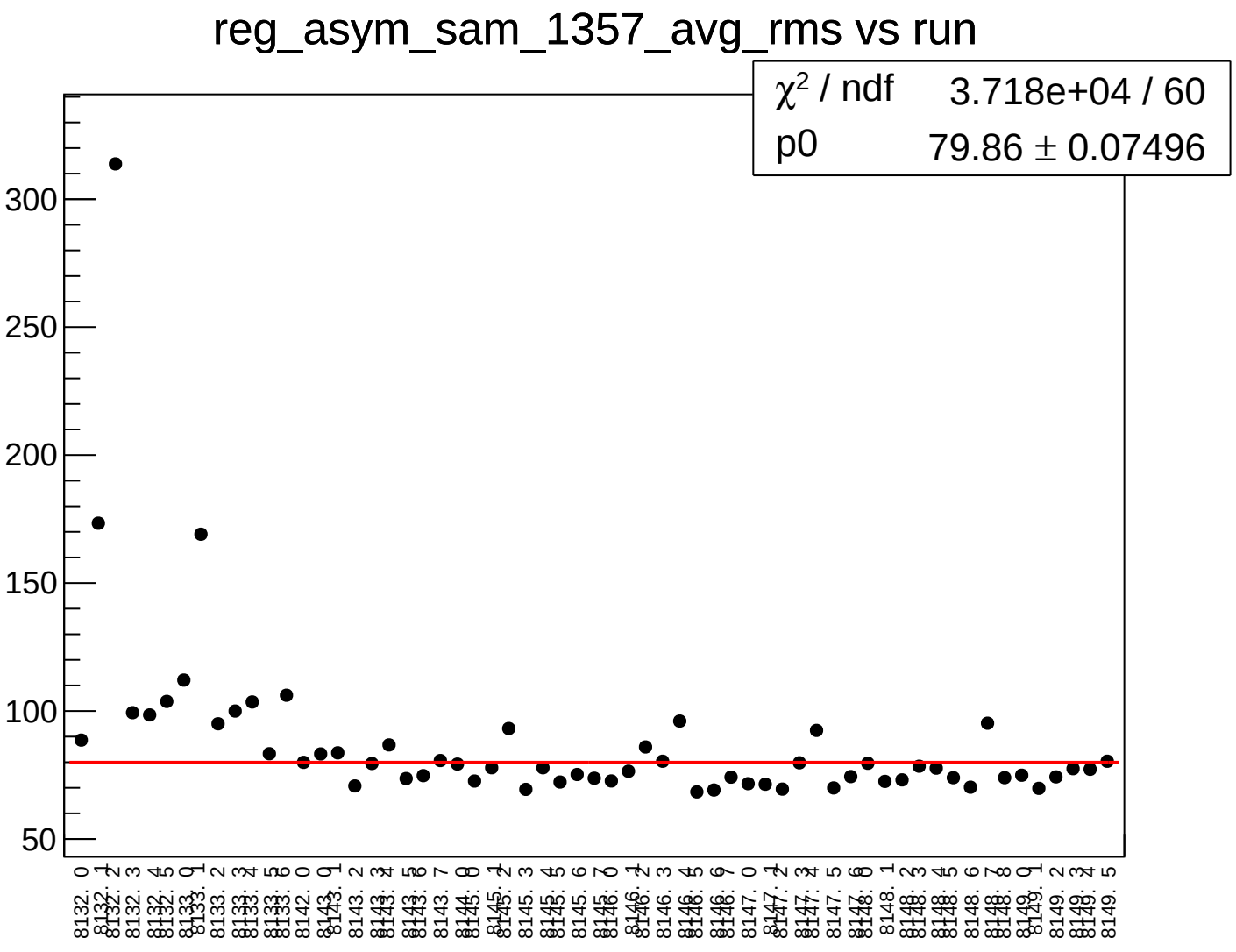

asym_sam_37_26_dd_mean vs run
χ² / ndf 65.52 / 60
p0 32.25 ± 228
pull
Entries 61
Mean −133.3
Std Dev 160.4

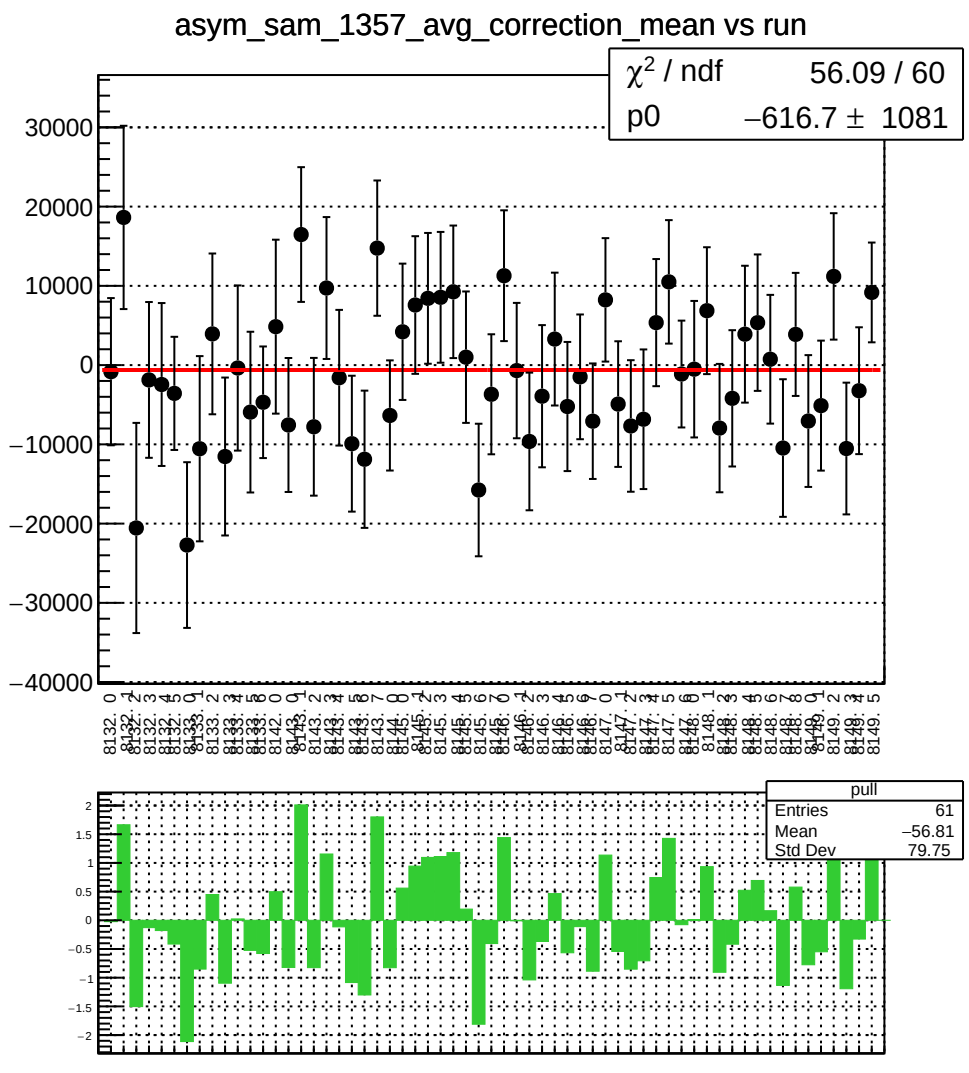

pull1D
Entries 61
Mean 0.02254
Std Dev 1.036

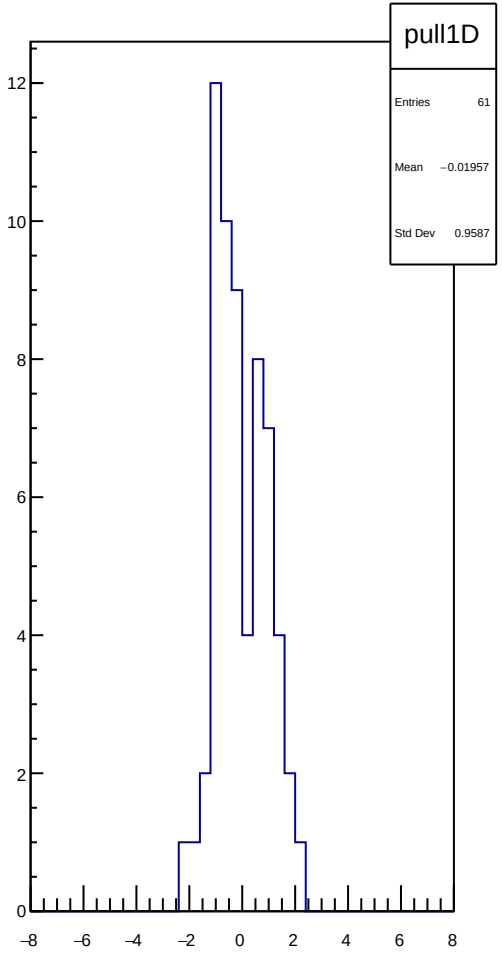

asym_sam_37_26_dd_rms vs run
χ² / ndf 3975 / 60
p0 174.2 ± 0.1612
220
210
200
190
180
170
160
150

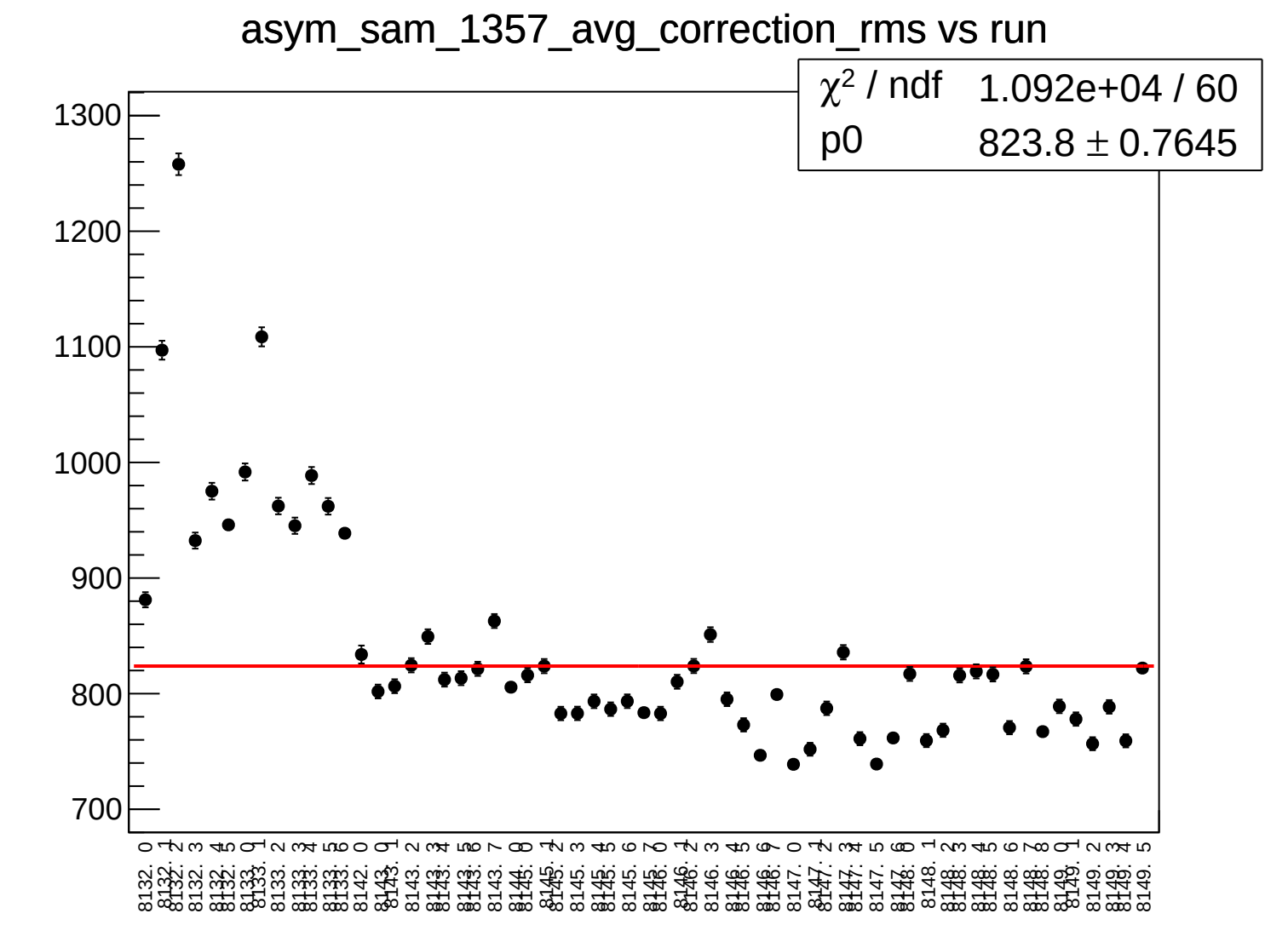

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 62.98 / 60
p0 −75.58 ± 106
pull
Entries 61
Mean 7.346
Std Dev 52.76

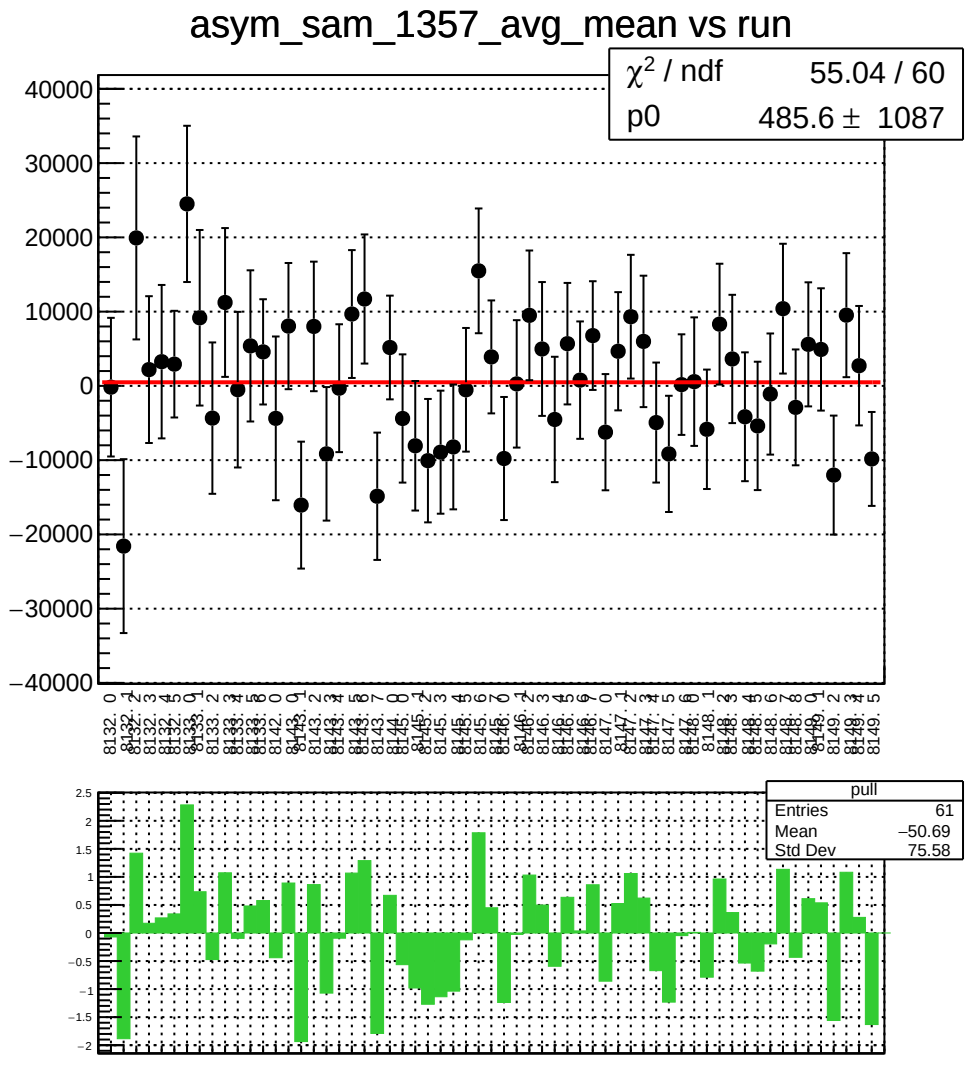

pull1D
Entries 61
Mean −0.02288
Std Dev 1.016

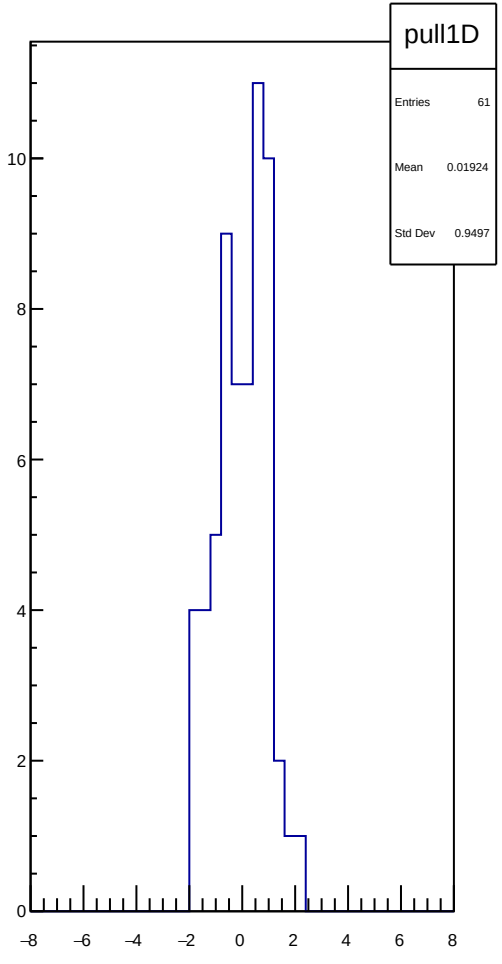

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 3.718e+04 / 60
p0 79.86 ± 0.07496
300
250
200
150
100
50

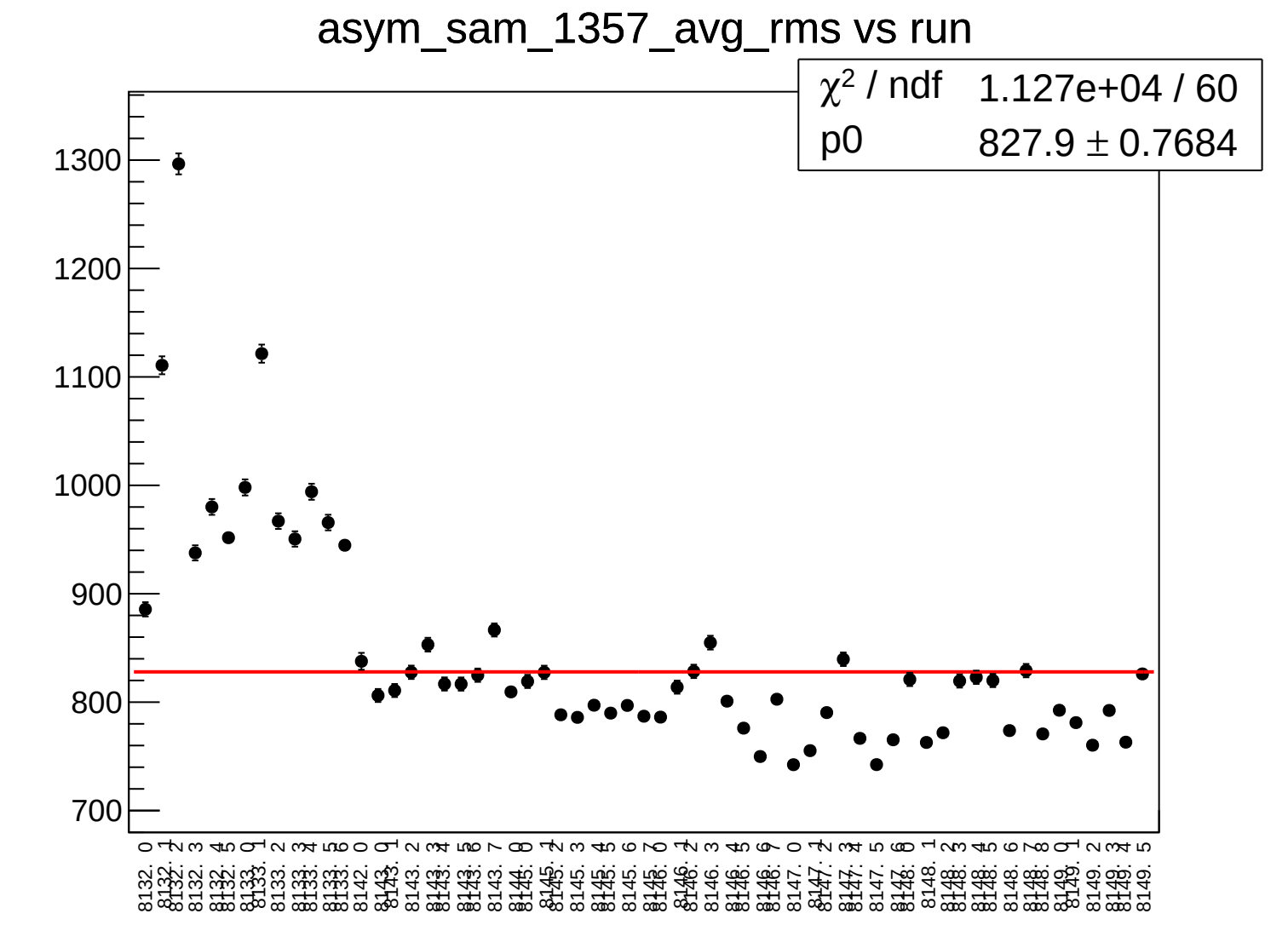

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 56.09 / 60
p0 −616.7 ± 1081
pull
Entries 61
Mean −56.81
Std Dev 79.75

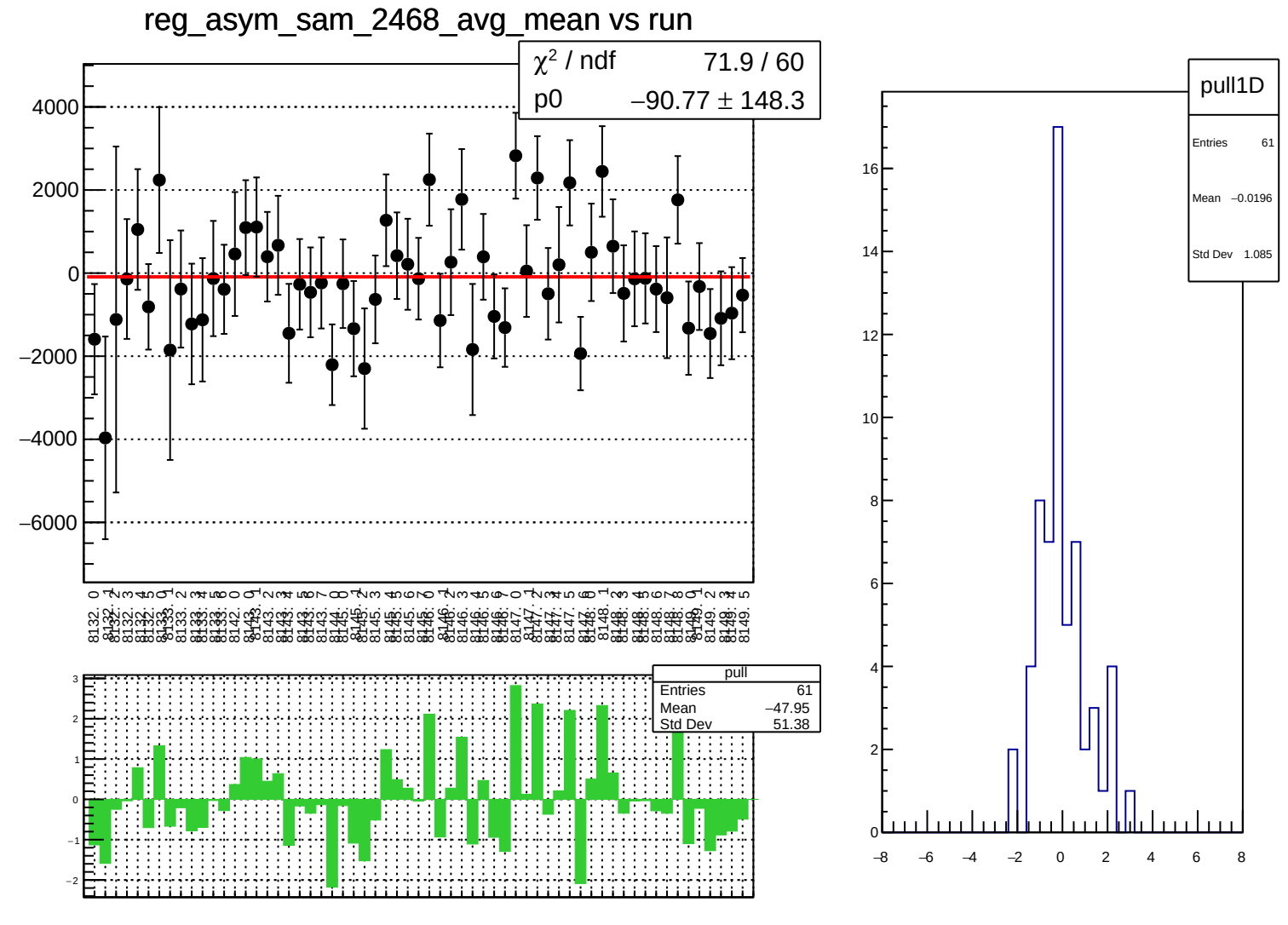

pull1D
Entries 61
Mean −0.01957
Std Dev 0.9587

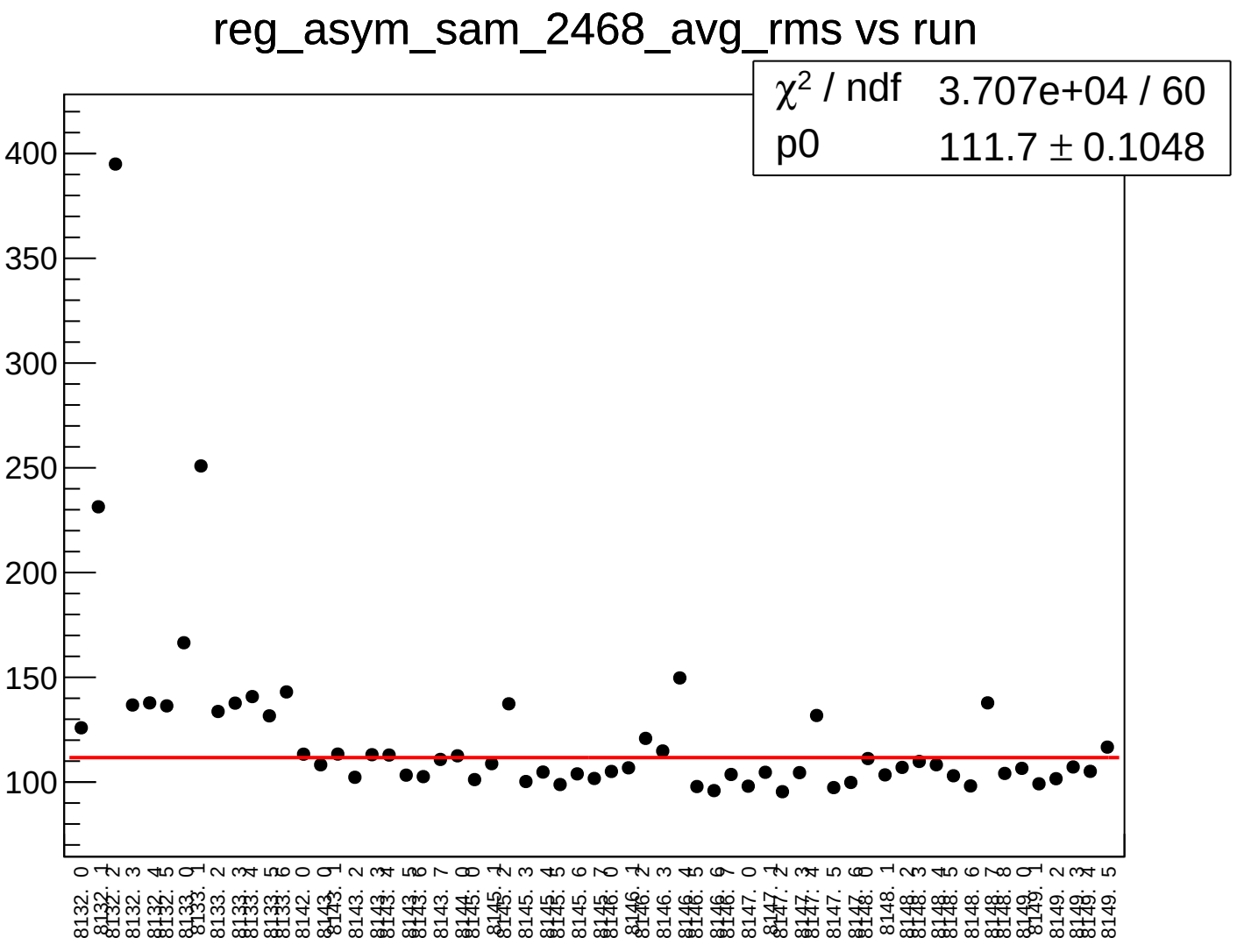

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 1.092e+04 / 60
p0 823.8 ± 0.7645
1300
1200
1100
1000
900
800
700

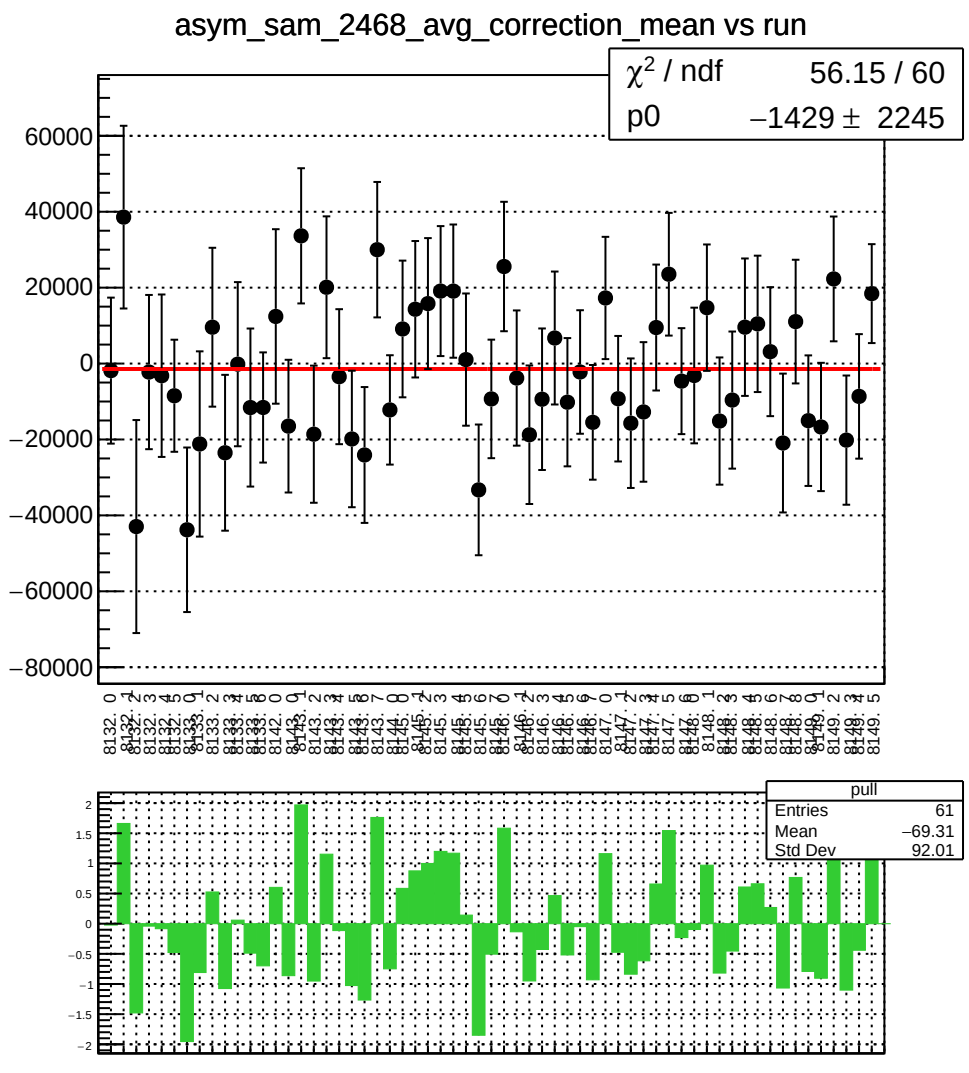

asym_sam_1357_avg_mean vs run
χ² / ndf 55.04 / 60
p0 485.6 ± 1087
pull
Entries 61
Mean −50.69
Std Dev 75.58

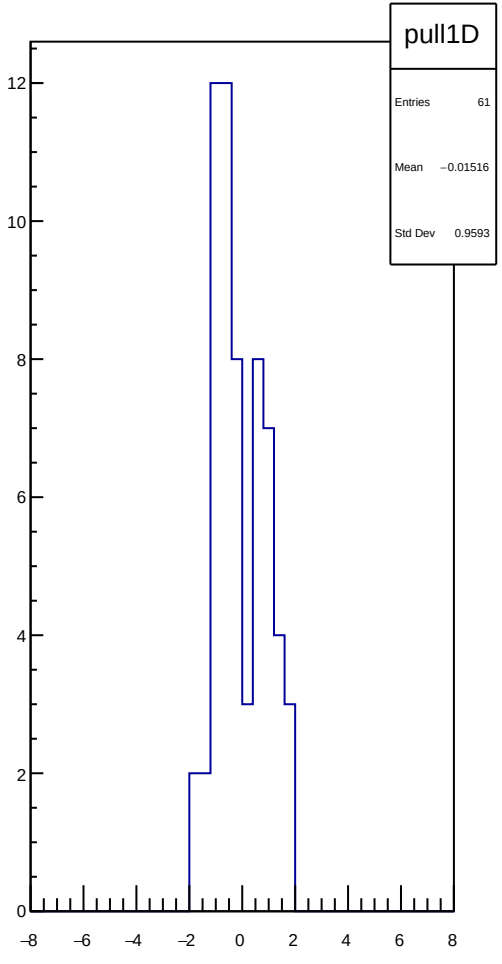

pull1D
Entries 61
Mean 0.01924
Std Dev 0.9497

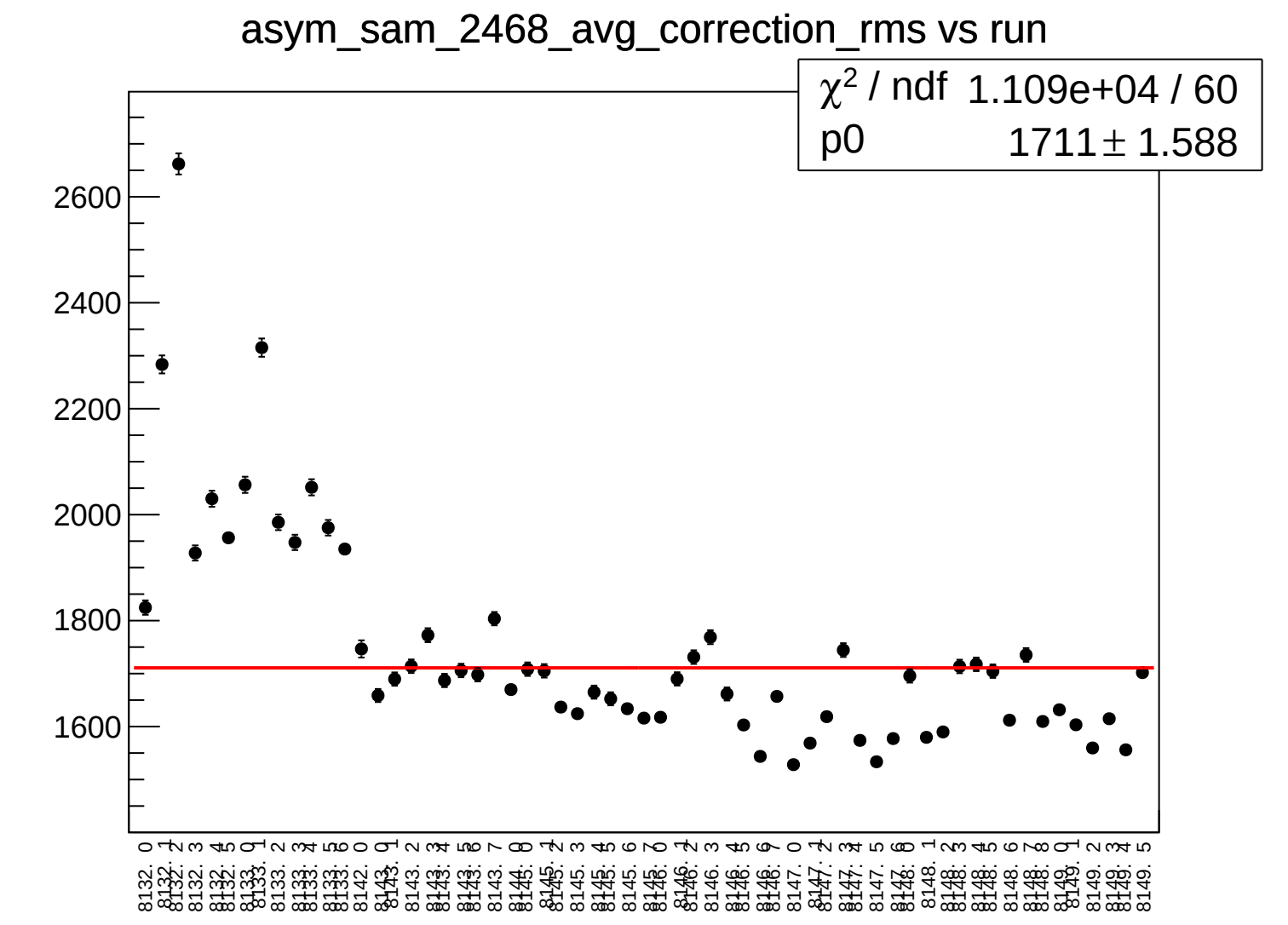

asym_sam_1357_avg_rms vs run
χ² / ndf 1.127e+04 / 60
p0 827.9 ± 0.7684
1300
1200
1100
1000
900
800
700

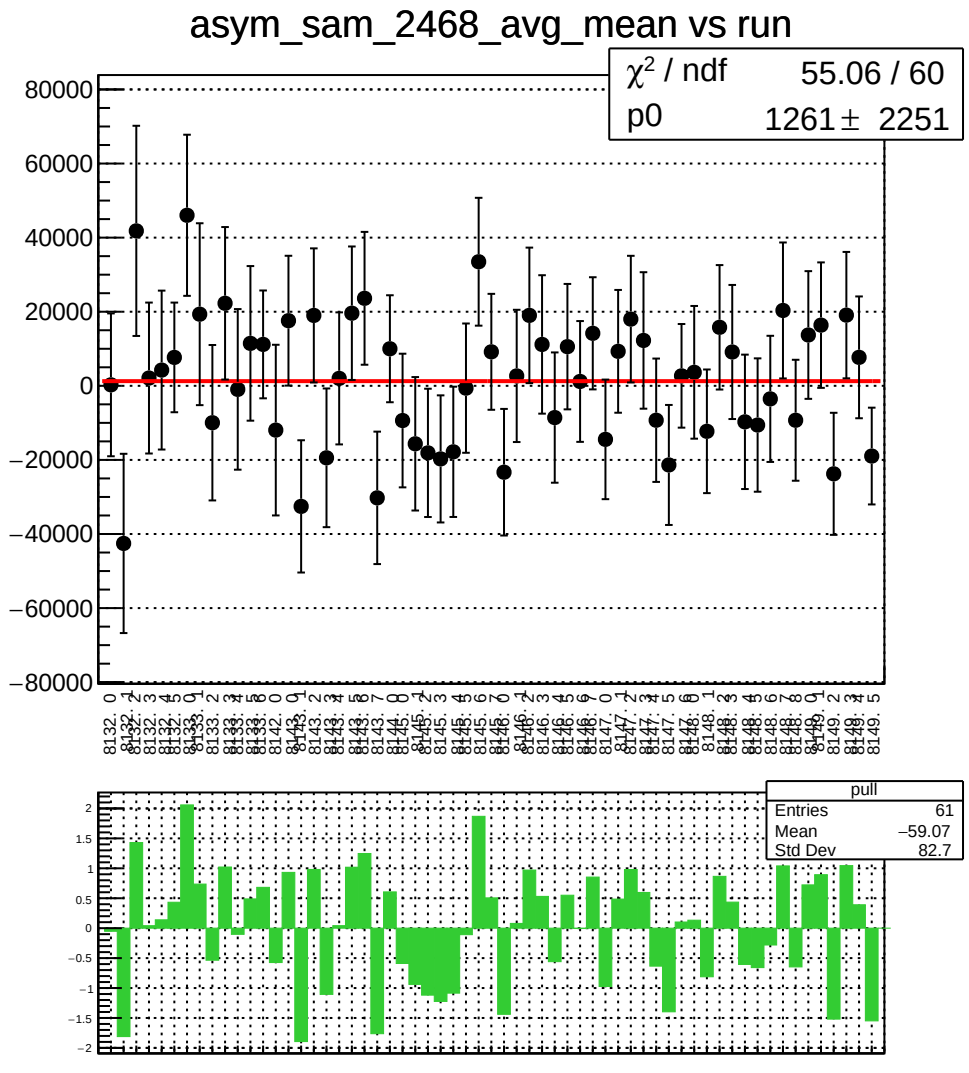

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 71.9 / 60
p0 −90.77 ± 148.3
pull
Entries 61
Mean −47.95
Std Dev 51.38
pull1D
Entries 61
Mean −0.0196
Std Dev 1.085

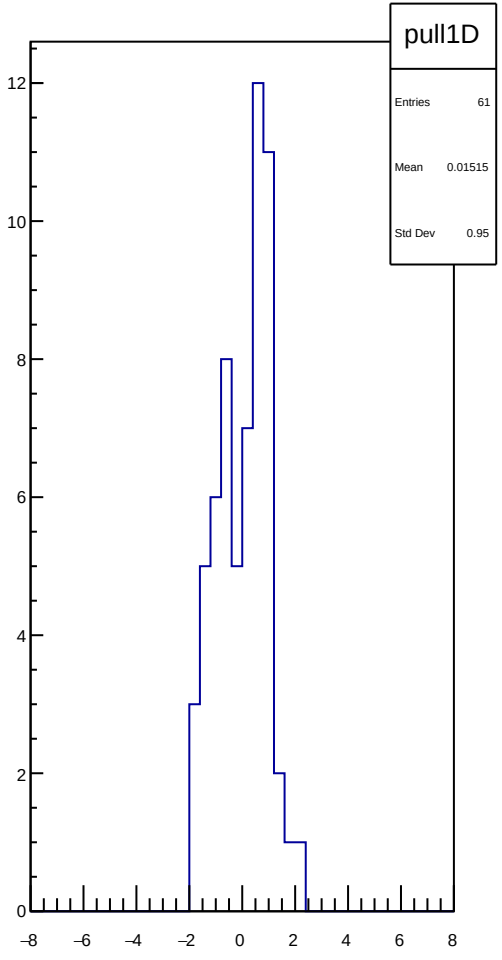

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 3.707e+04 / 60
p0 111.7 ± 0.1048
400
350
300
250
200
150
100

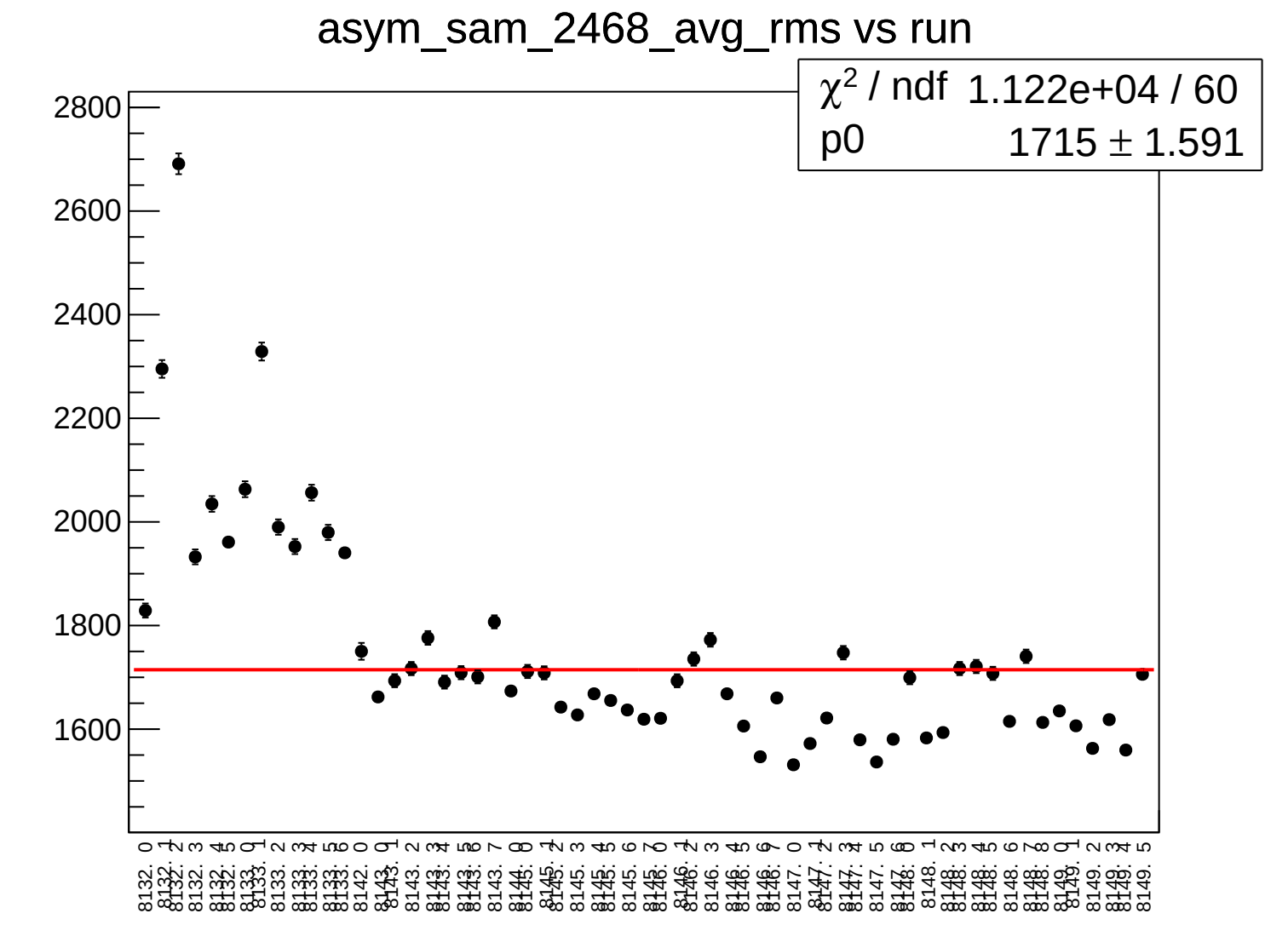

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 56.15 / 60
p0 −1429 ± 2245
pull
Entries 61
Mean −69.31
Std Dev 92.01

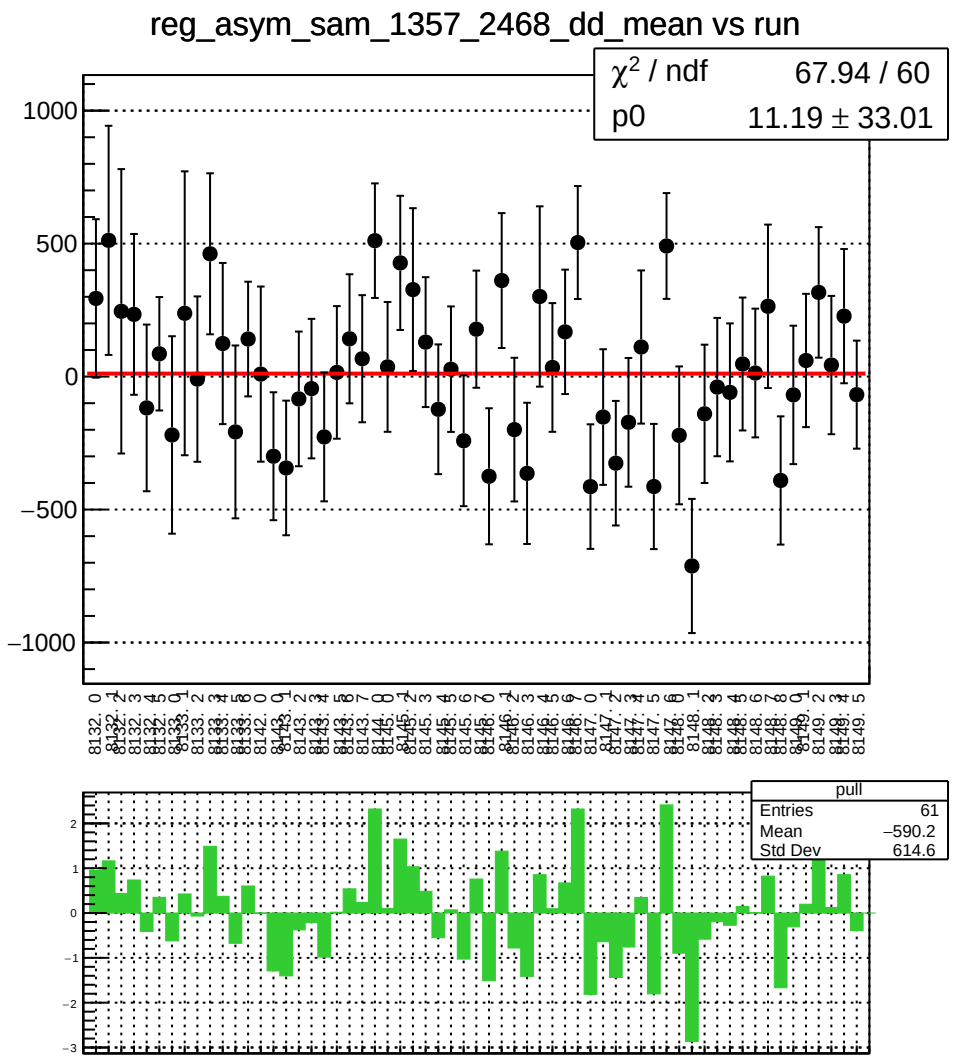

pull1D
Entries 61
Mean −0.01516
Std Dev 0.9593

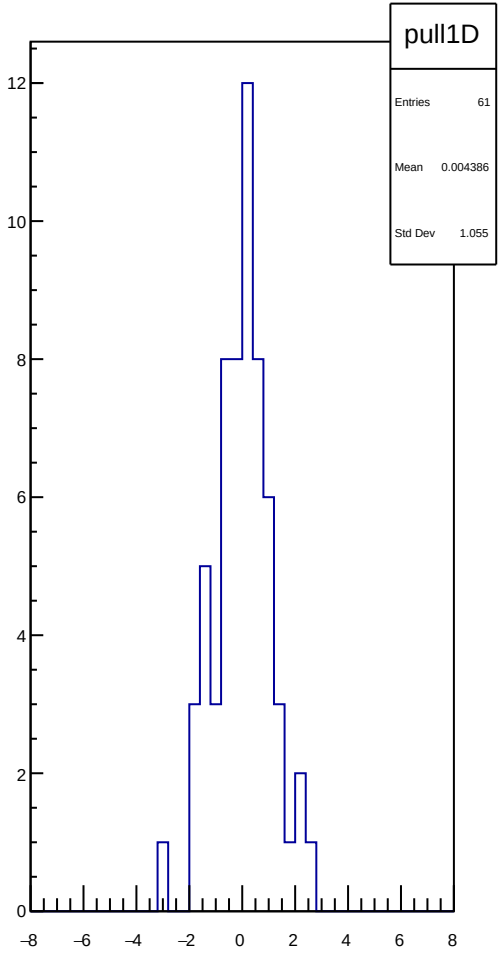

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 1.109e+04 / 60
p0 1711 ± 1.588
2600
2400
2200
2000
1800
1600

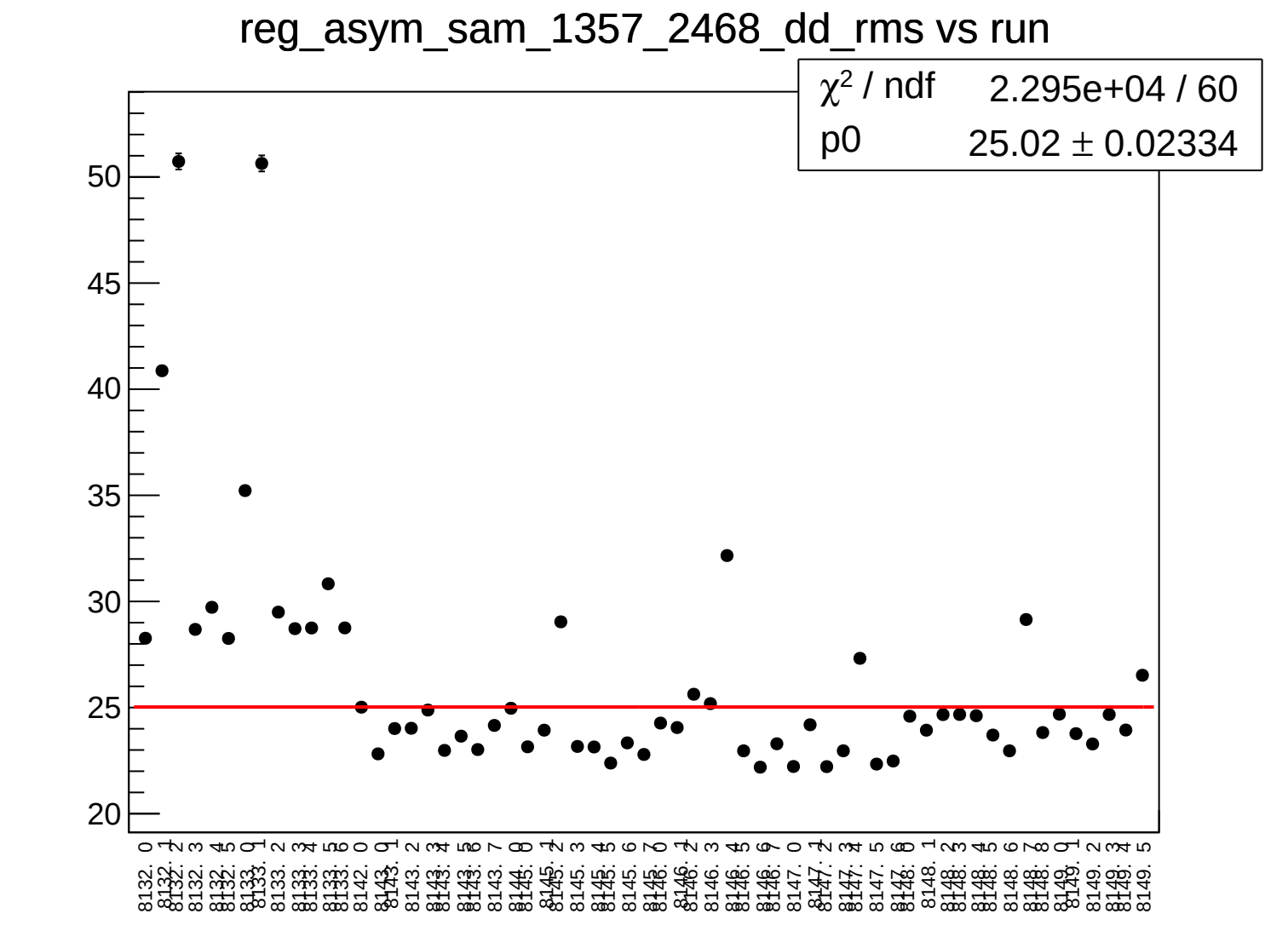

asym_sam_2468_avg_mean vs run
χ² / ndf 55.06 / 60
p0 1261 ± 2251
pull
Entries 61
Mean −59.07
Std Dev 82.7

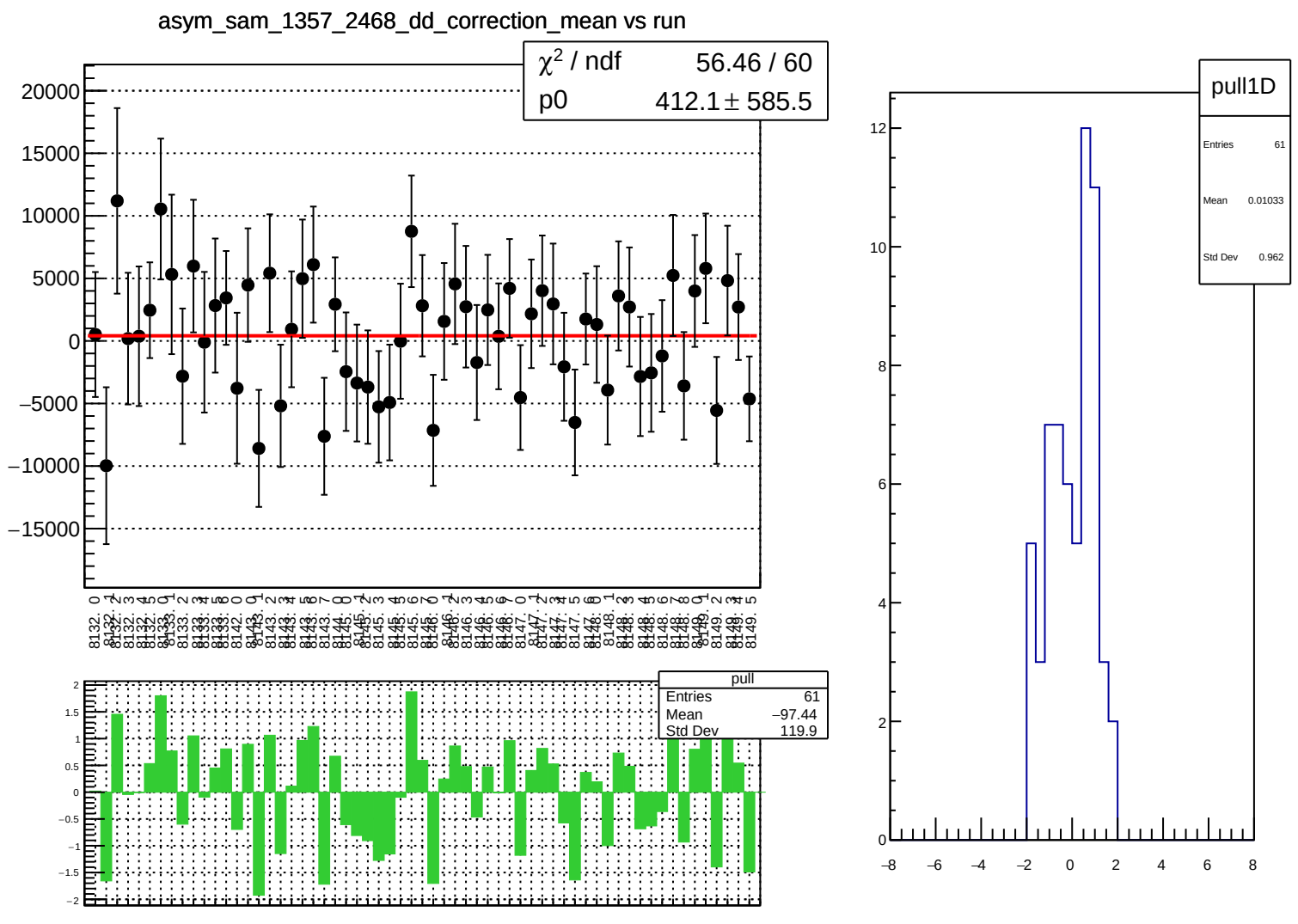

pull1D
Entries 61
Mean 0.01515
Std Dev 0.95

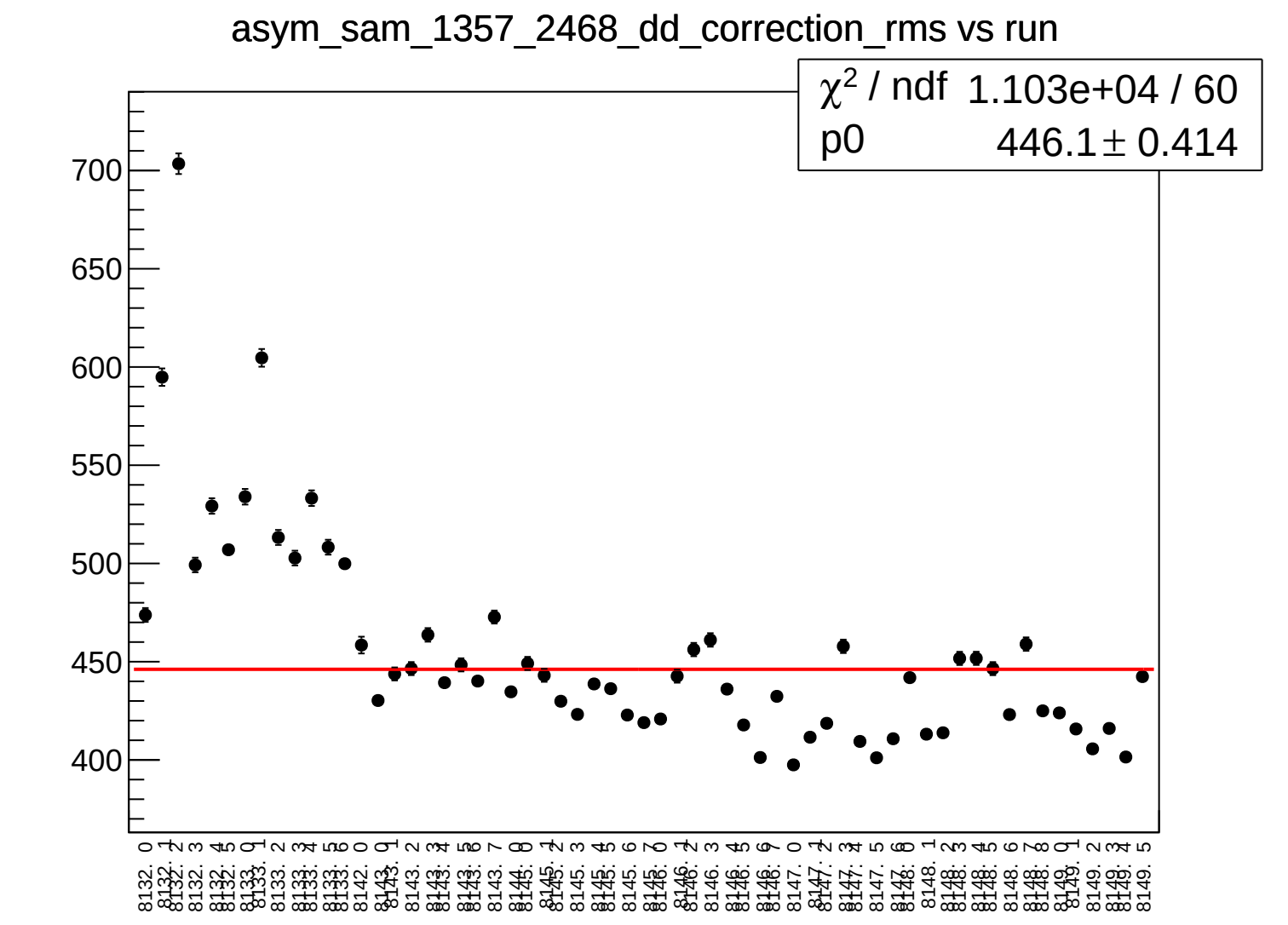

asym_sam_2468_avg_rms vs run
χ² / ndf 1.122e+04 / 60
p0 1715 ± 1.591
2800
2600
2400
2200
2000
1800
1600

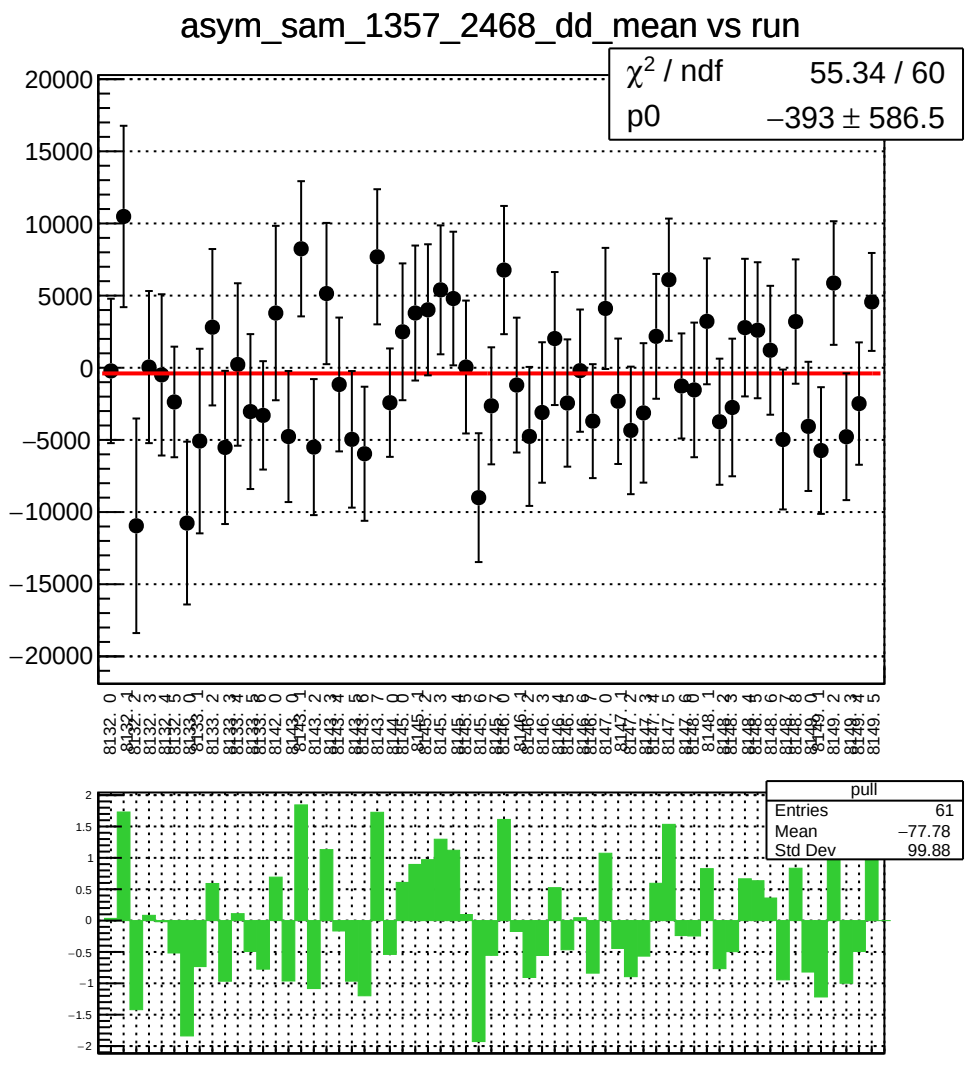

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 67.94 / 60
p0 11.19 ± 33.01
pull
Entries 61
Mean −590.2
Std Dev 614.6

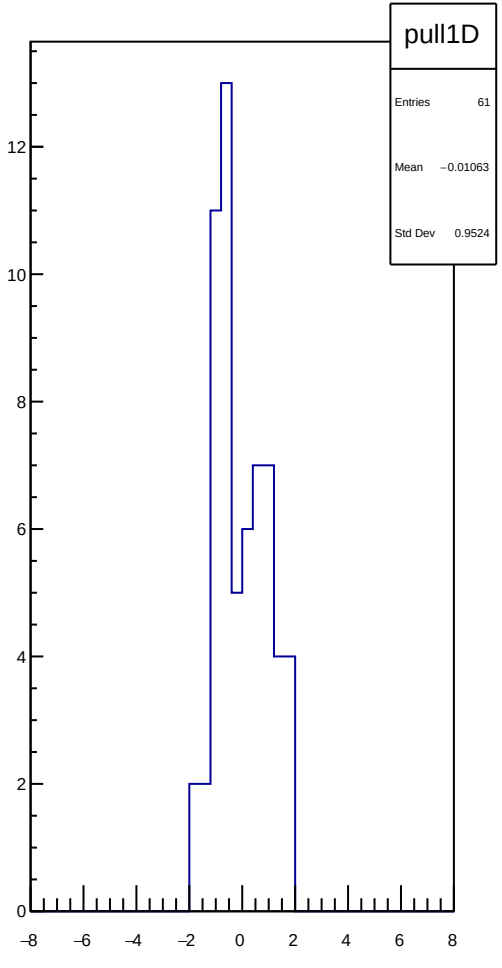

pull1D
Entries 61
Mean 0.004386
Std Dev 1.055

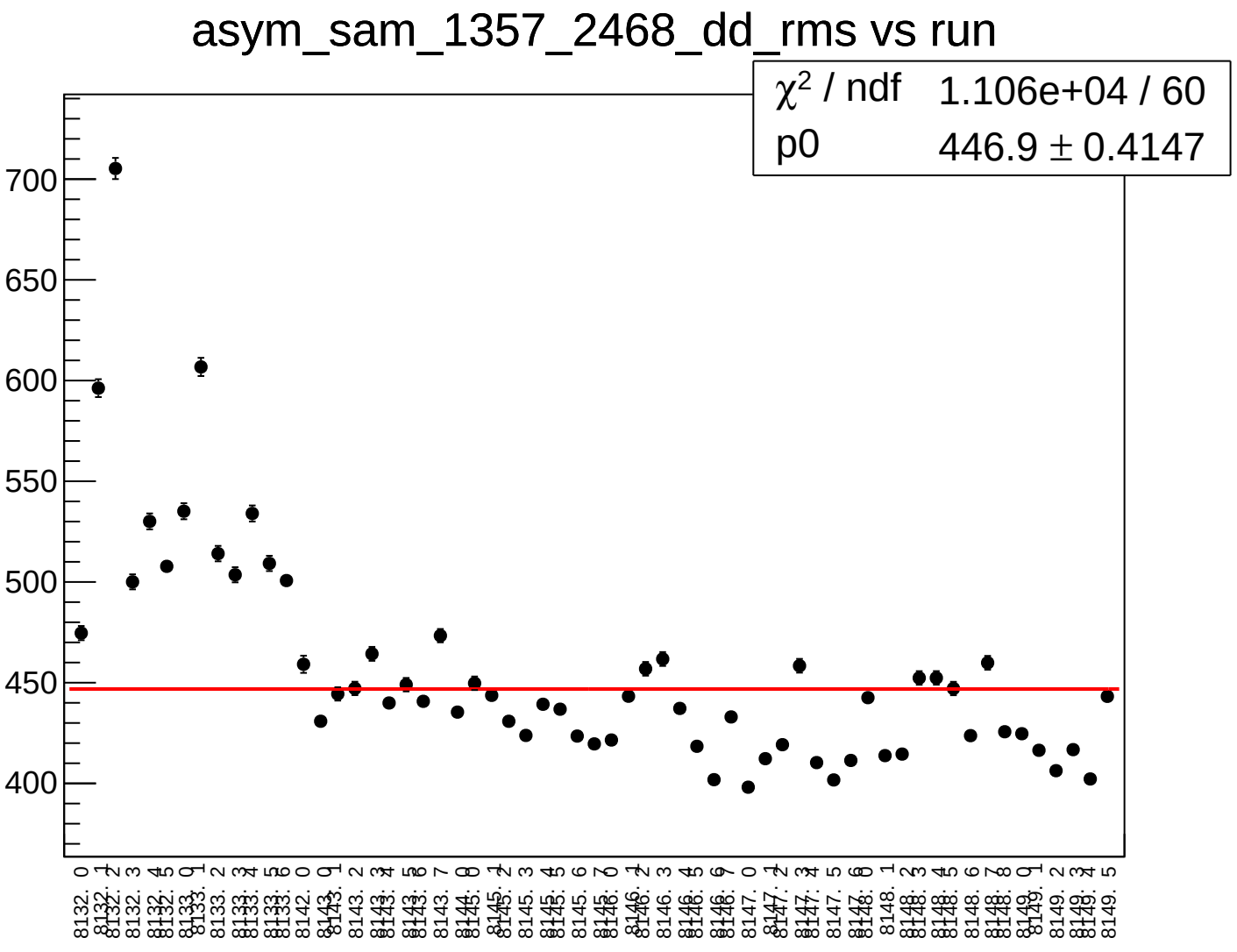

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.295e+04 / 60
p0 25.02 ± 0.02334
50
45
40
35
30
25
20

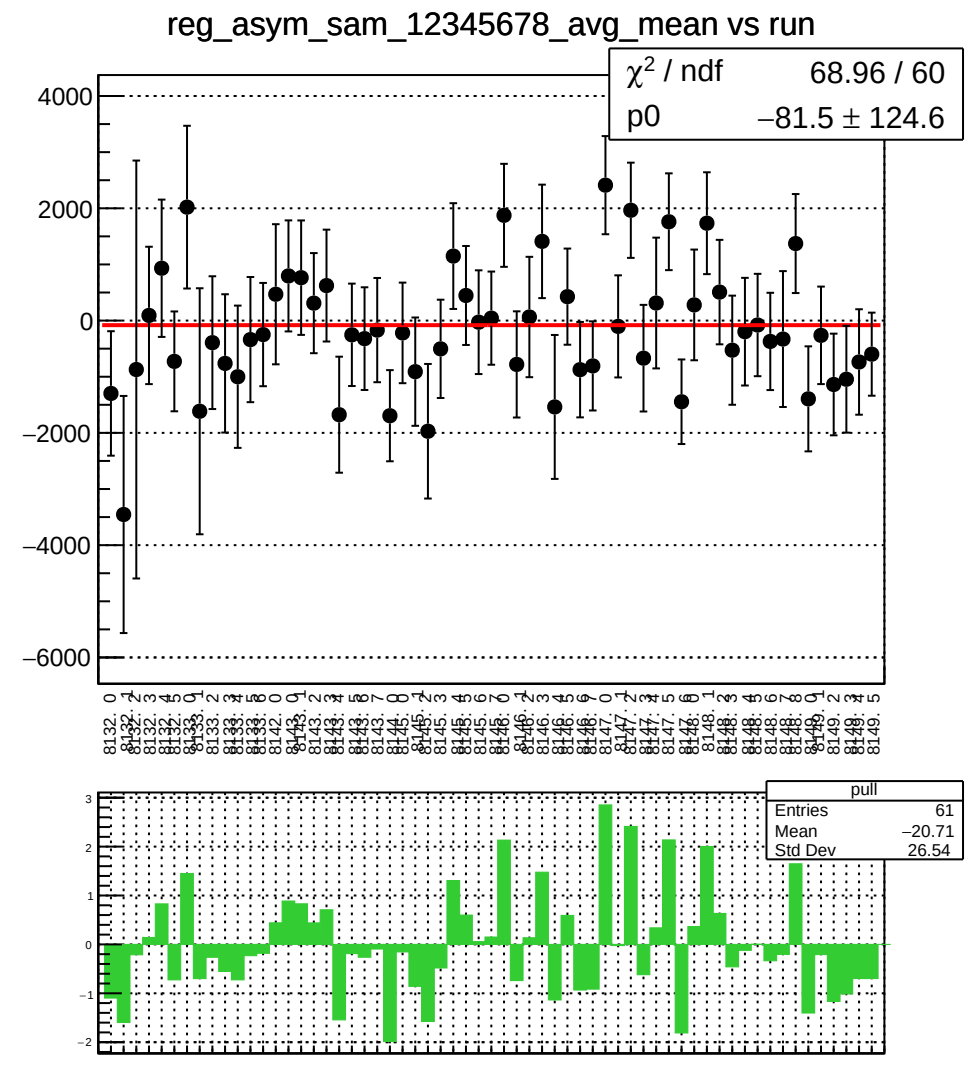

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 56.46 / 60
p0 412.1 ± 585.5
pull
Entries 61
Mean −97.44
Std Dev 119.9
pull1D
Entries 61
Mean 0.01033
Std Dev 0.962

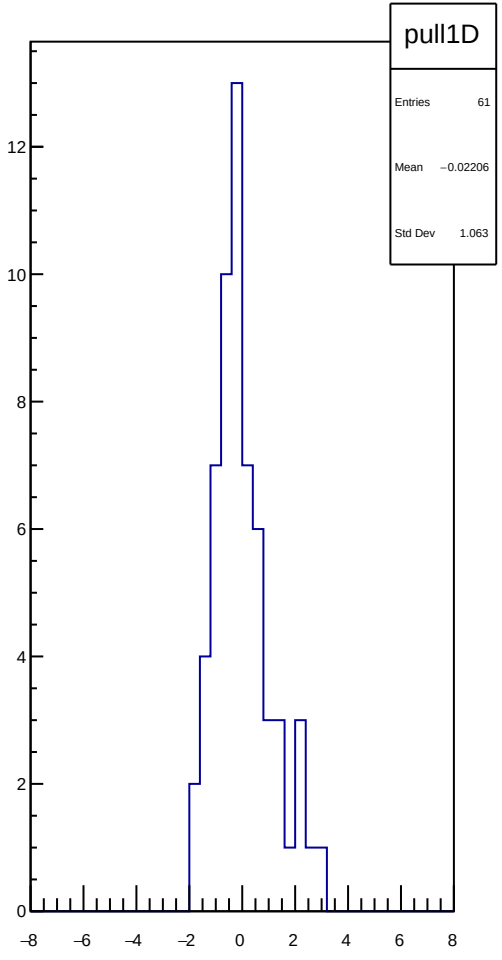

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1.103e+04 / 60
p0 446.1 ± 0.414
700
650
600
550
500
450
400

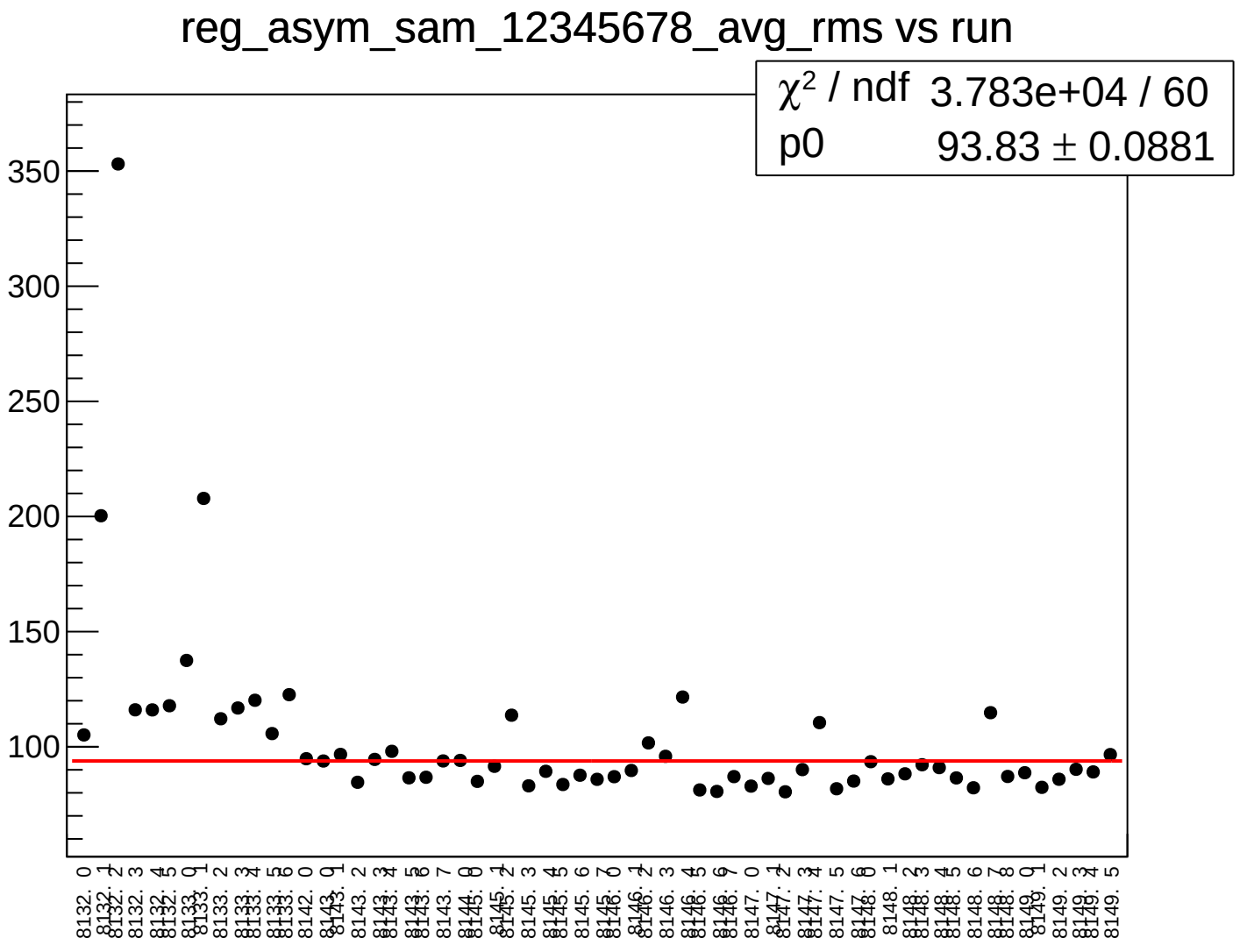

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 55.34 / 60
p0 −393 ± 586.5
pull
Entries 61
Mean −77.78
Std Dev 99.88

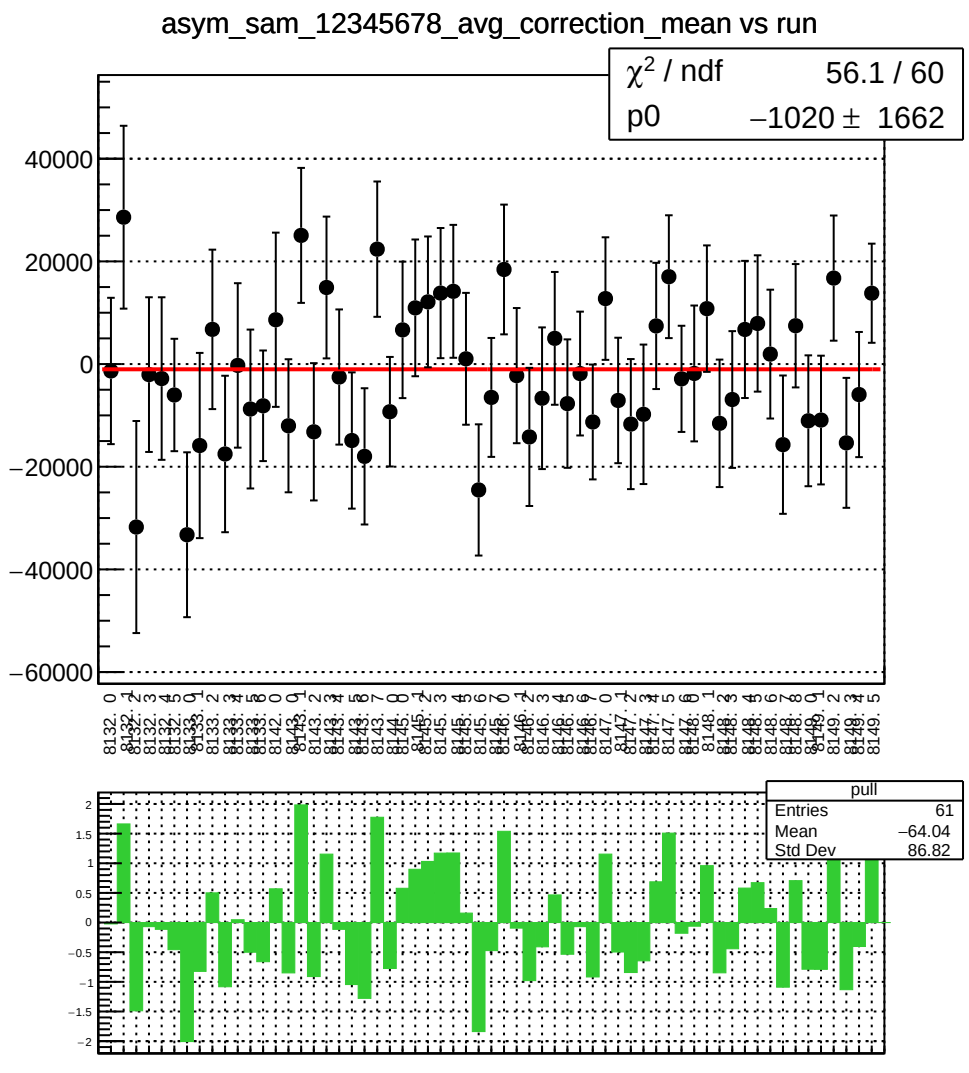

pull1D
Entries 61
Mean −0.01063
Std Dev 0.9524

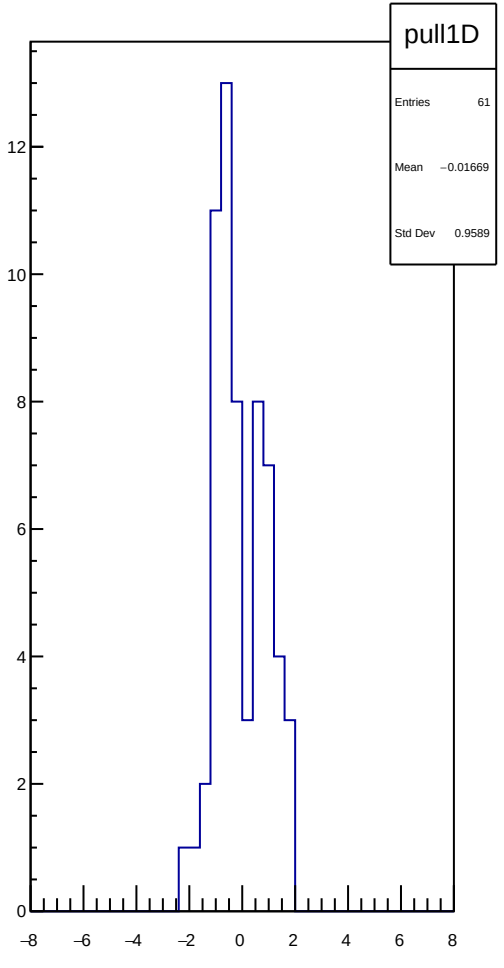

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.106e+04 / 60
p0 446.9 ± 0.4147
700
650
600
550
500
450
400

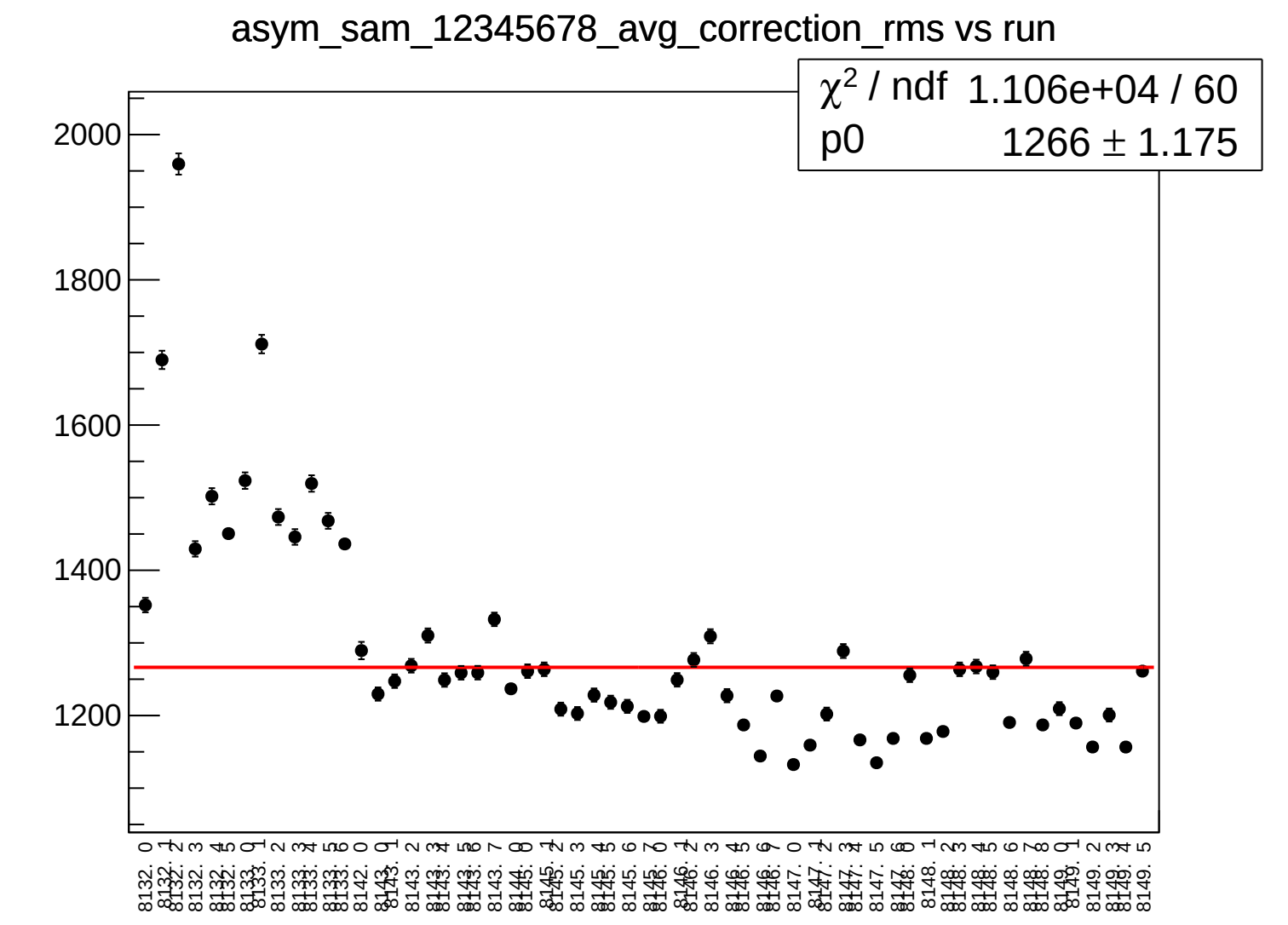

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 68.96 / 60
p0 −81.5 ± 124.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 61
Mean −20.71
Std Dev 26.54
3
2
1
0
−1
−2

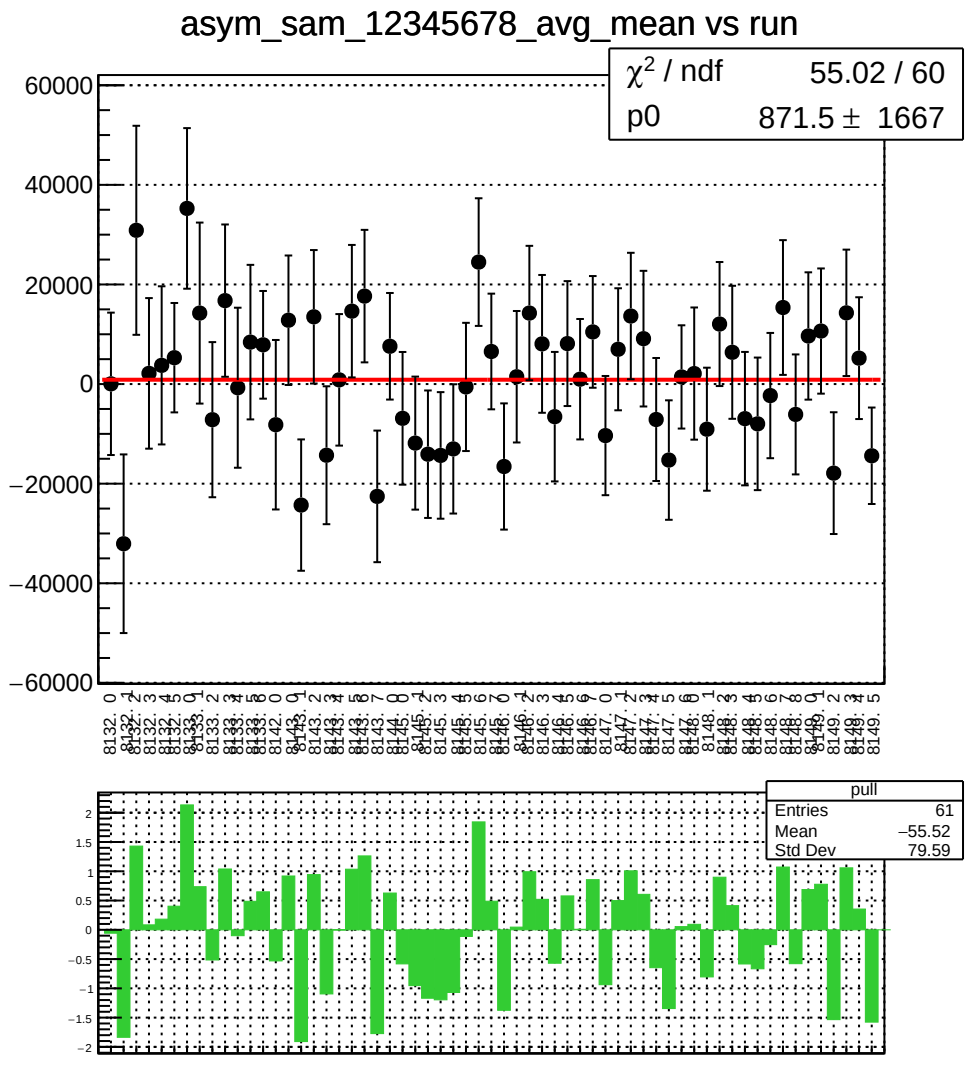

pull1D
Entries 61
Mean −0.02206
Std Dev 1.063
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

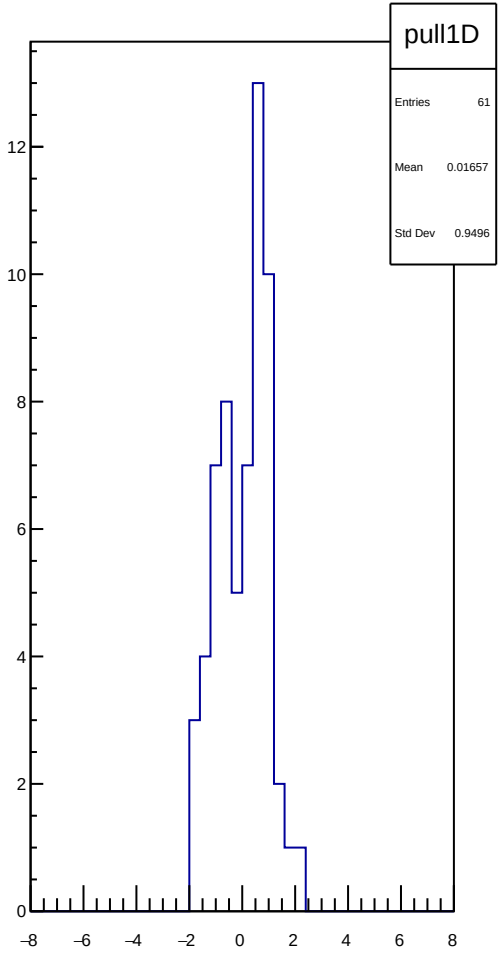

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.783e+04 / 60
p0 93.83 ± 0.0881
350
300
250
200
150
100

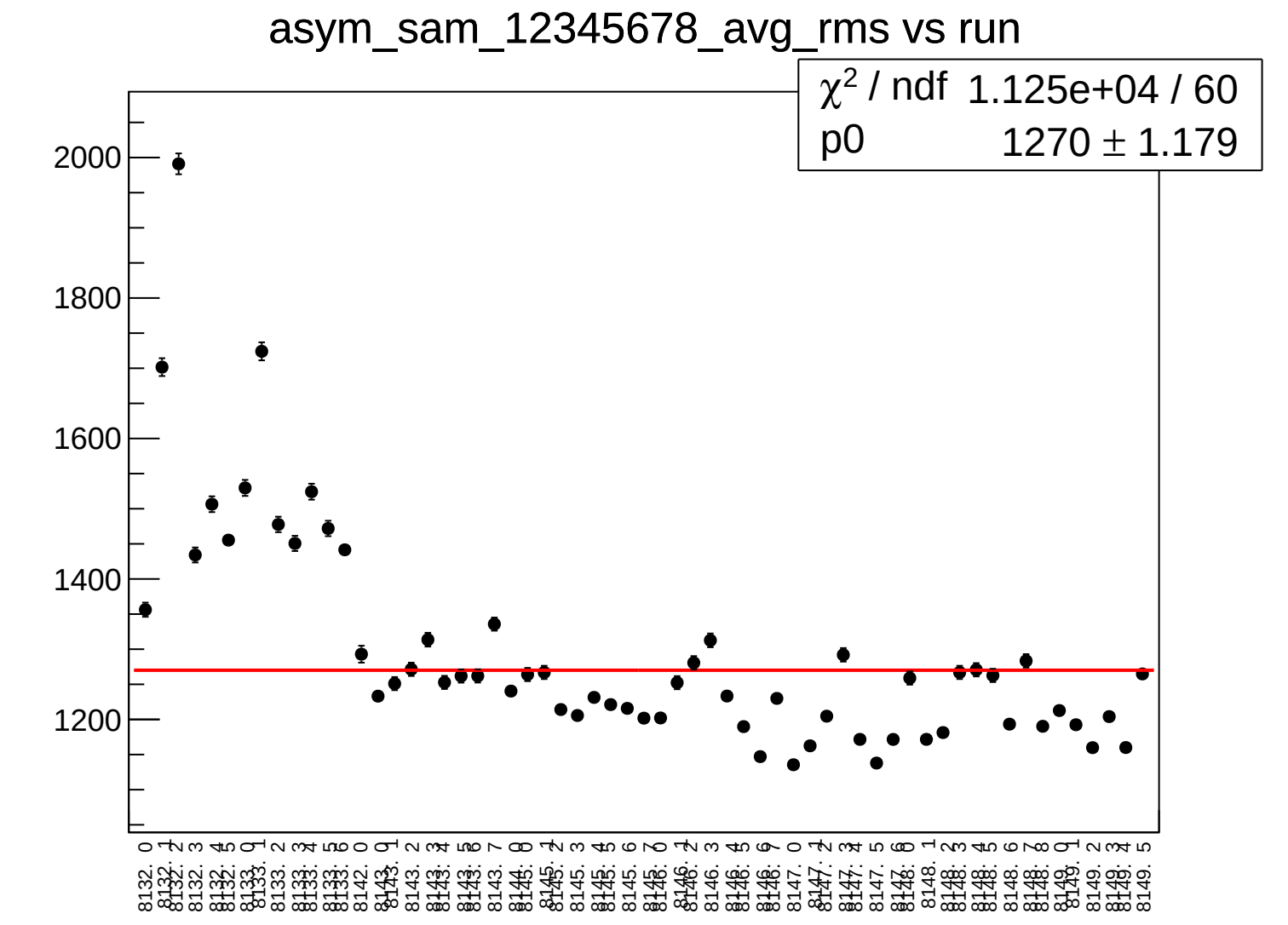

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 56.1 / 60
p0 −1020 ± 1662
40000
20000
0
−20000
−40000
−60000
pull
Entries 61
Mean −64.04
Std Dev 86.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

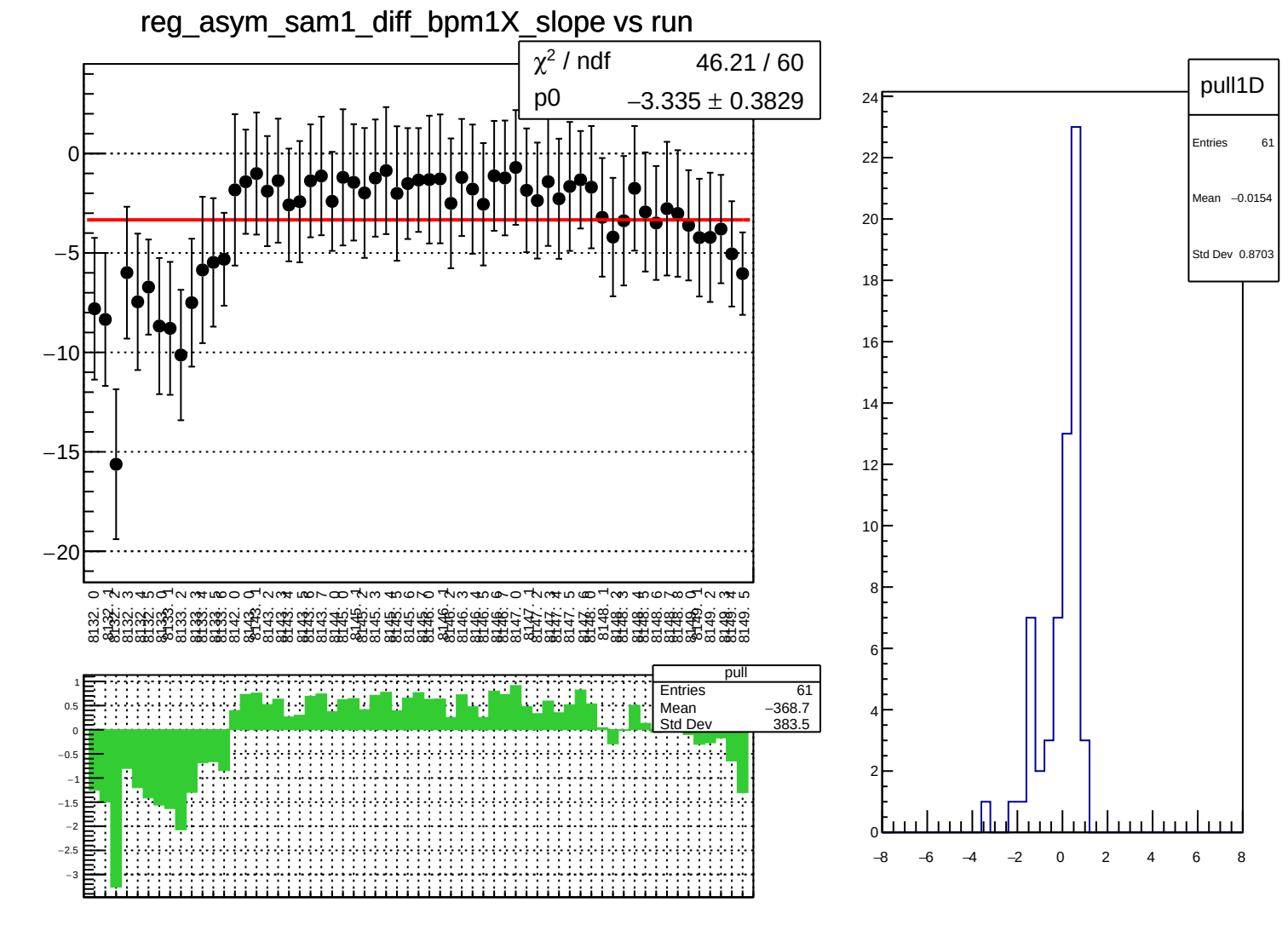

pull1D
Entries 61
Mean −0.01669
Std Dev 0.9589
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

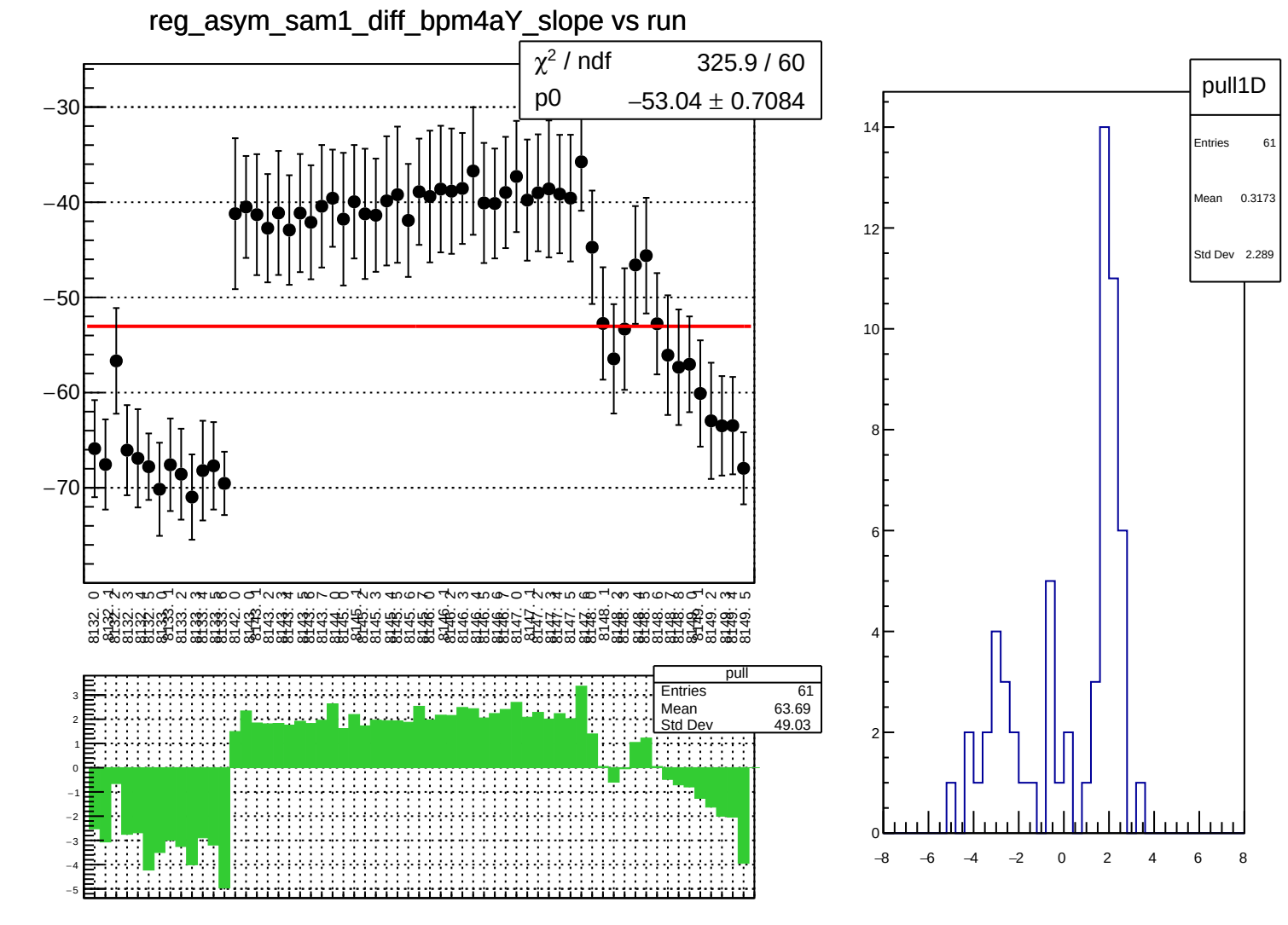

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 1.106e+04 / 60
p0 1266 ± 1.175
2000
1800
1600
1400
1200

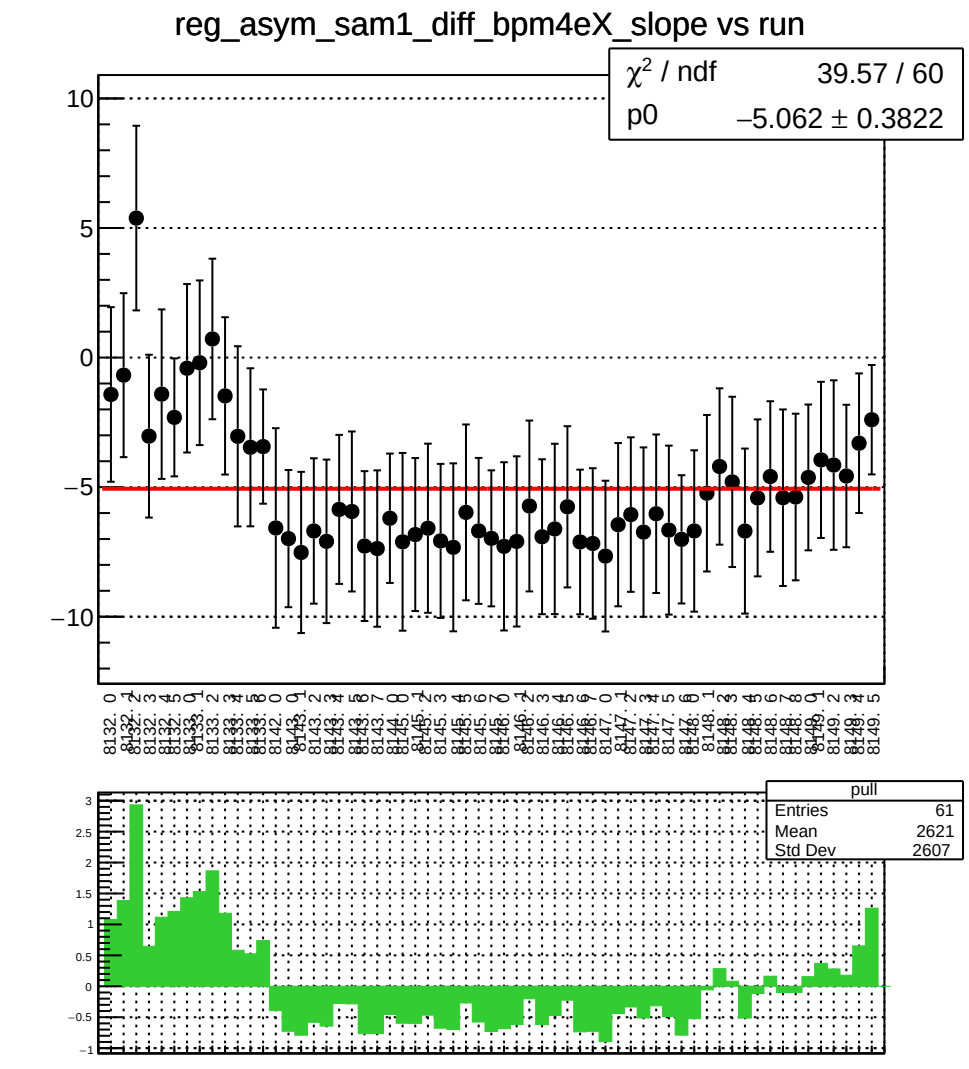

asym_sam_12345678_avg_mean vs run
χ² / ndf 55.02 / 60
p0 871.5 ± 1667
pull
Entries 61
Mean −55.52
Std Dev 79.59

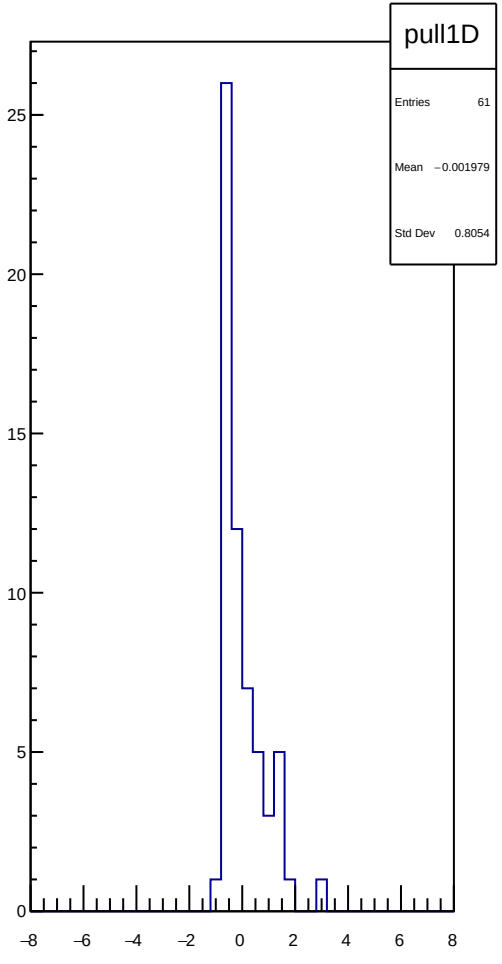

pull1D
Entries 61
Mean 0.01657
Std Dev 0.9496

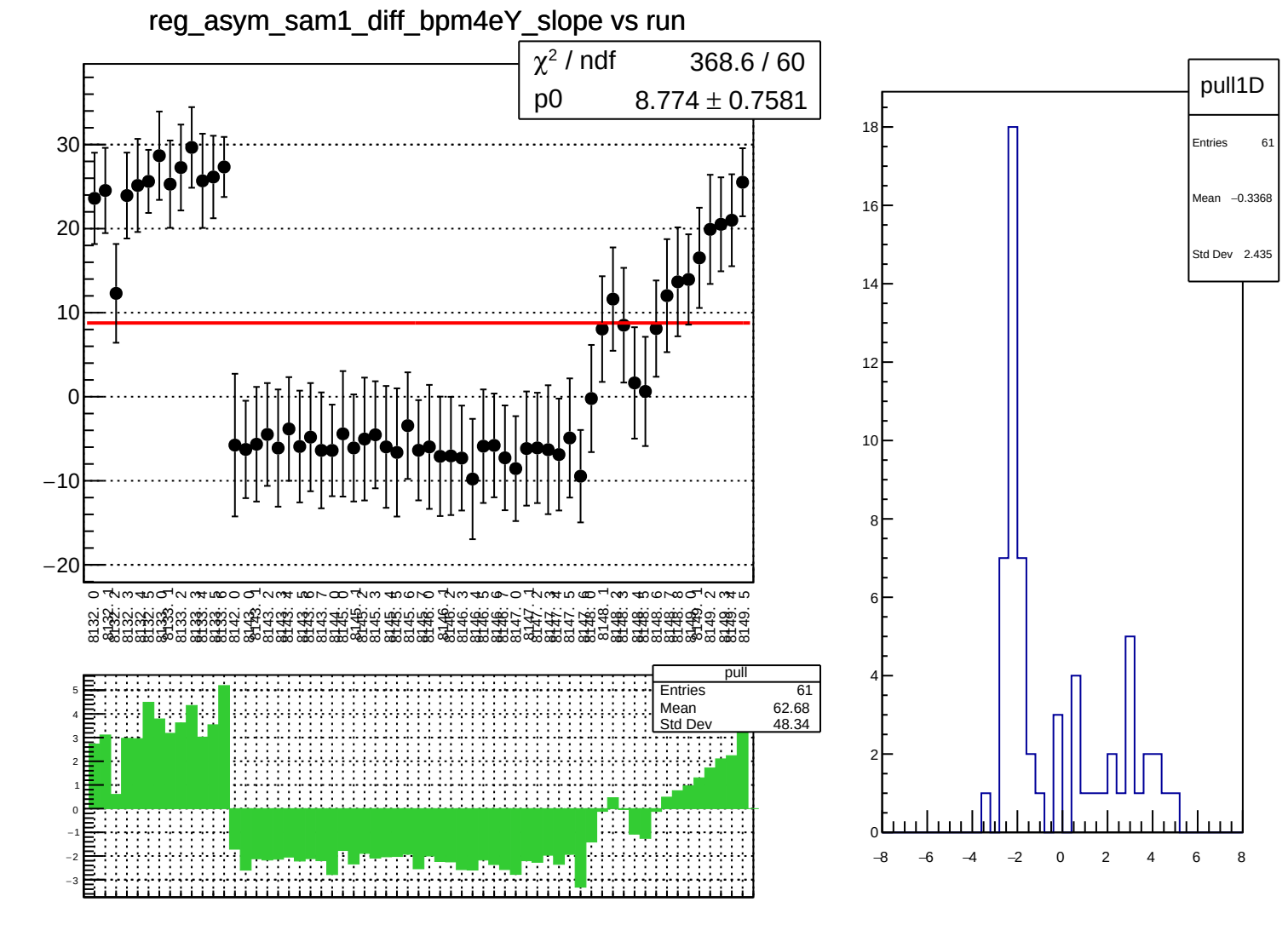

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.125e+04 / 60
p0 1270 ± 1.179
2000
1800
1600
1400
1200

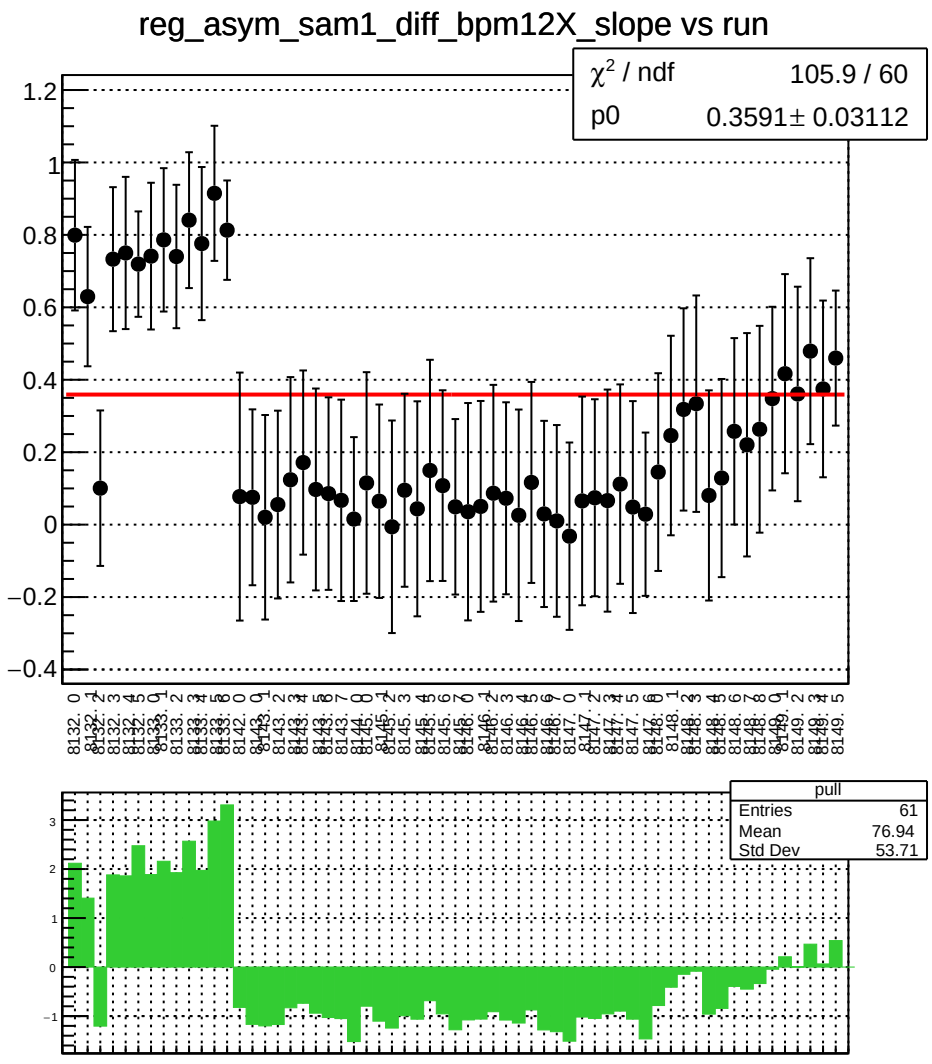

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 46.21 / 60
p0 −3.335 ± 0.3829
pull
Entries 61
Mean −368.7
Std Dev 383.5
pull1D
Entries 61
Mean −0.0154
Std Dev 0.8703

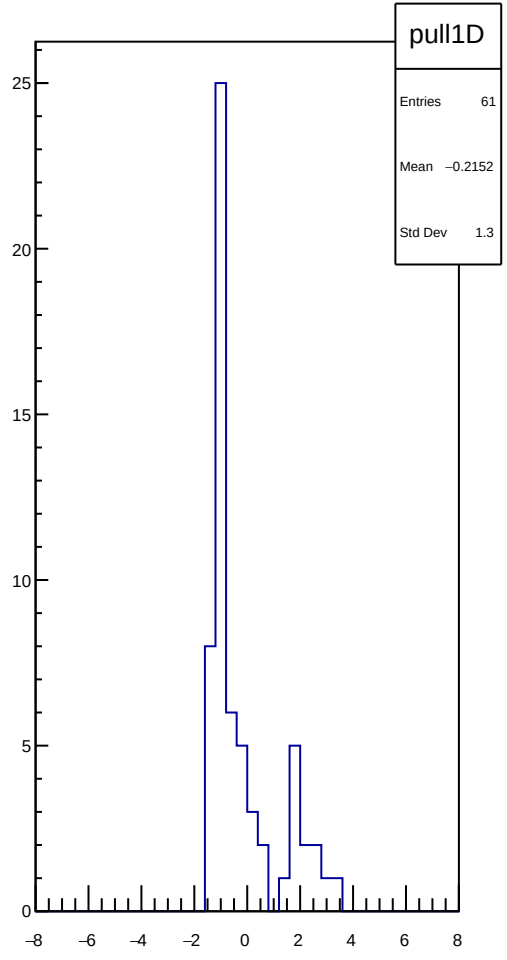

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 325.9 / 60
p0 −53.04 ± 0.7084
pull
Entries 61
Mean 63.69
Std Dev 49.03
pull1D
Entries 61
Mean 0.3173
Std Dev 2.289

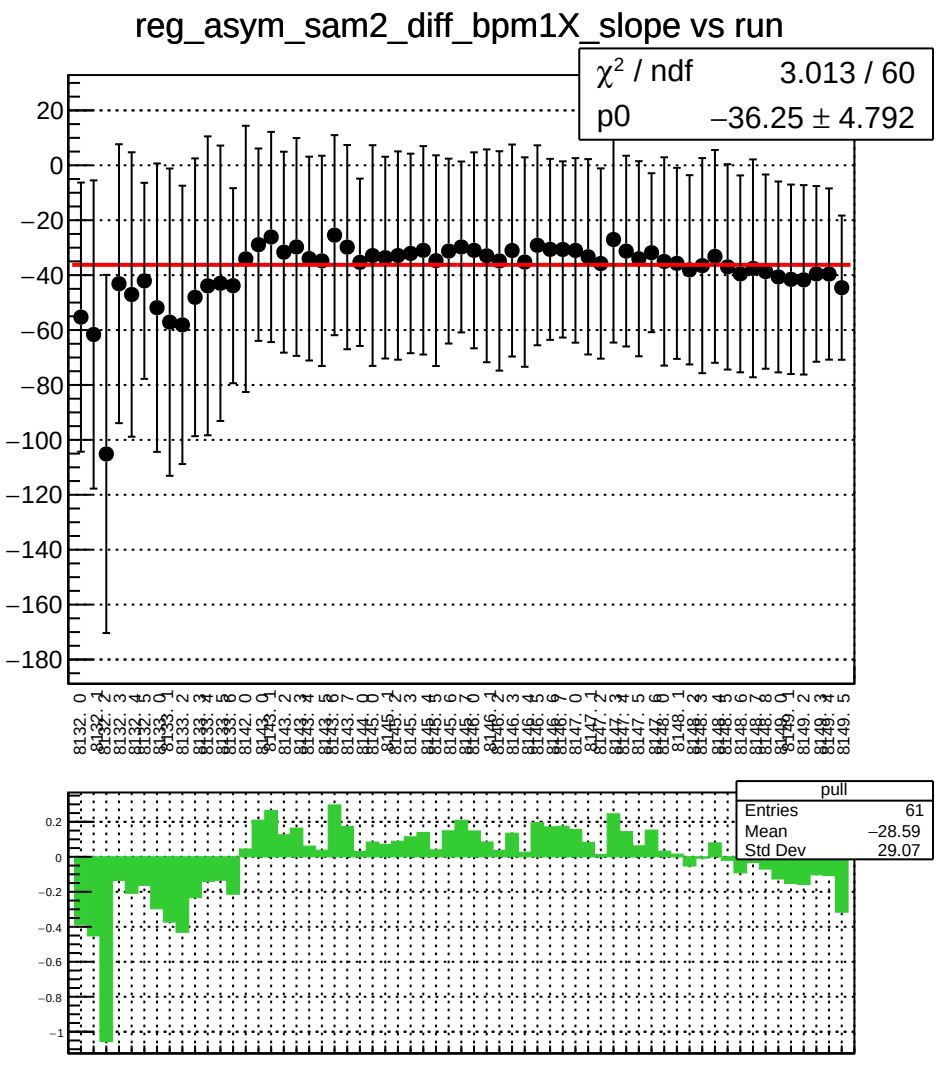

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 39.57 / 60
p0 −5.062 ± 0.3822
pull
Entries 61
Mean 2621
Std Dev 2607

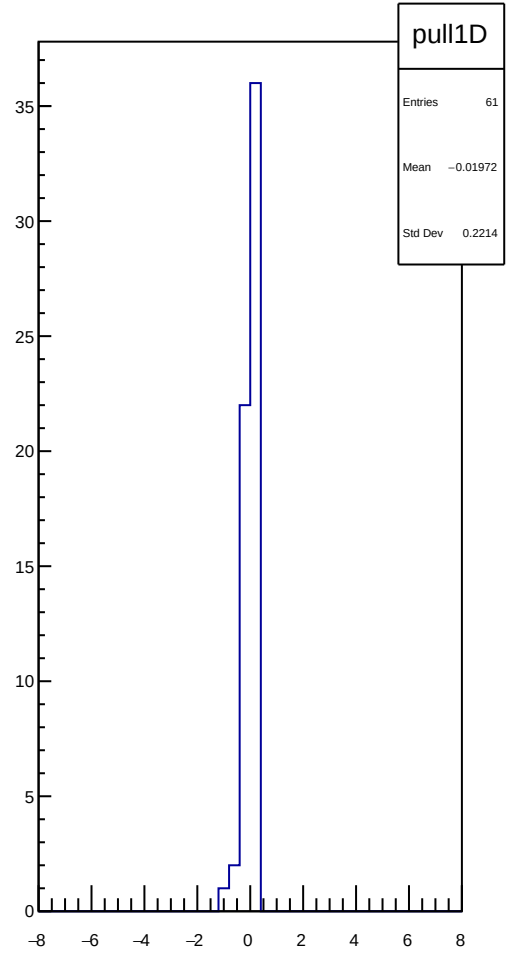

pull1D
Entries 61
Mean −0.001979
Std Dev 0.8054

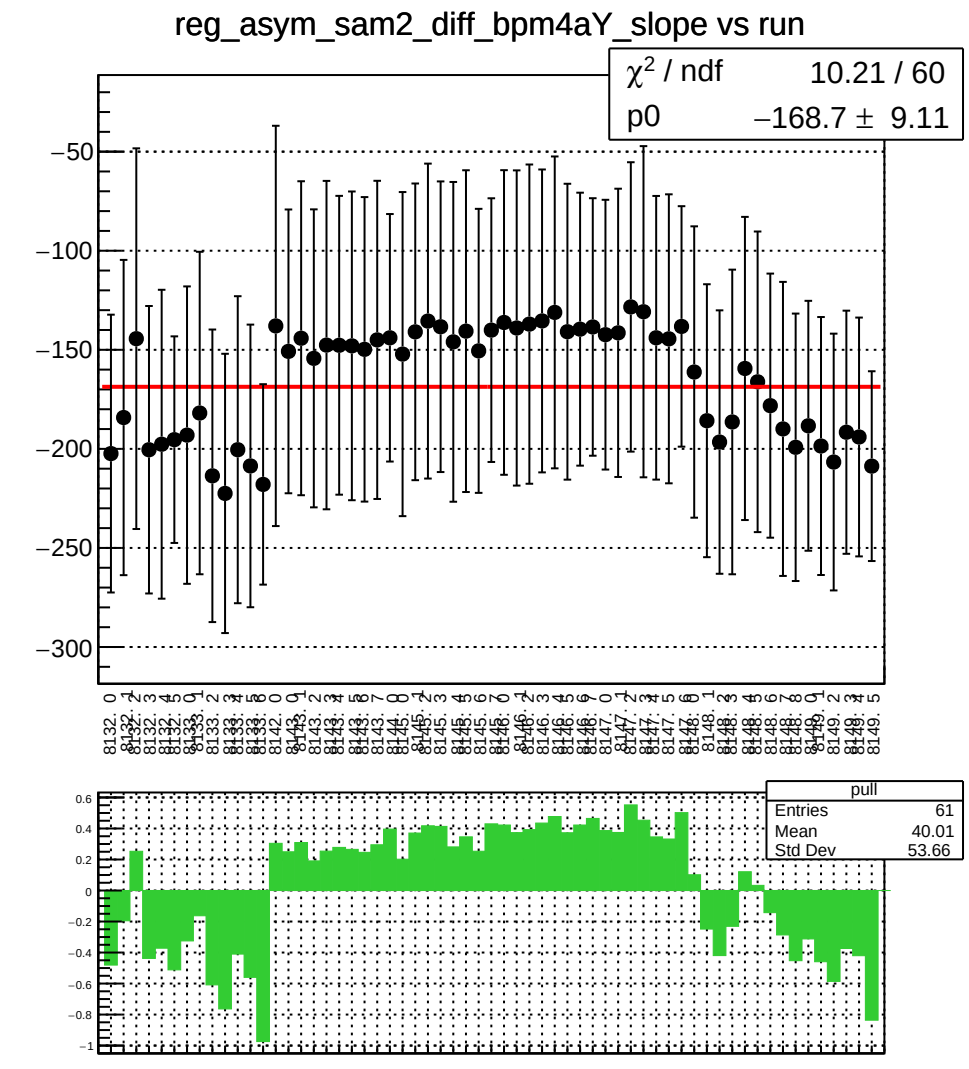

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 368.6 / 60
p0 8.774 ± 0.7581
pull
Entries 61
Mean 62.68
Std Dev 48.34
pull1D
Entries 61
Mean −0.3368
Std Dev 2.435

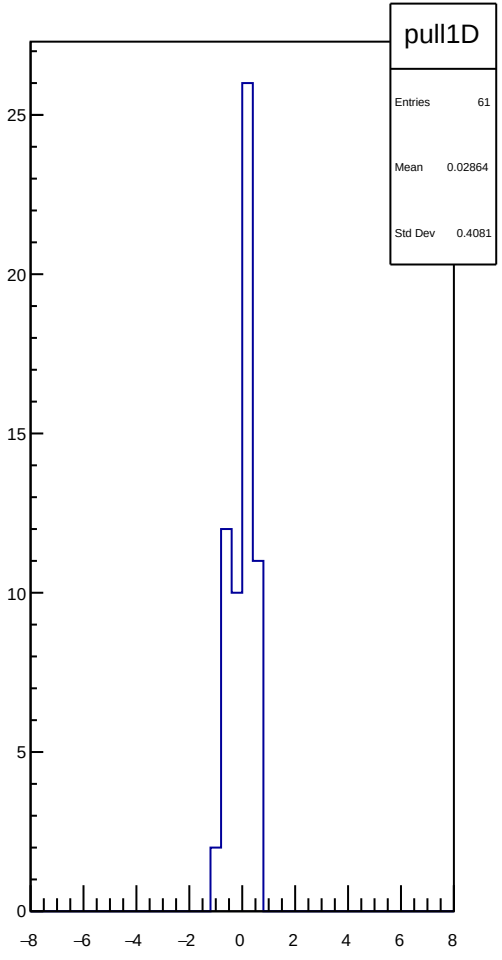

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 105.9 / 60
p0 0.3591± 0.03112
pull
Entries 61
Mean 76.94
Std Dev 53.71

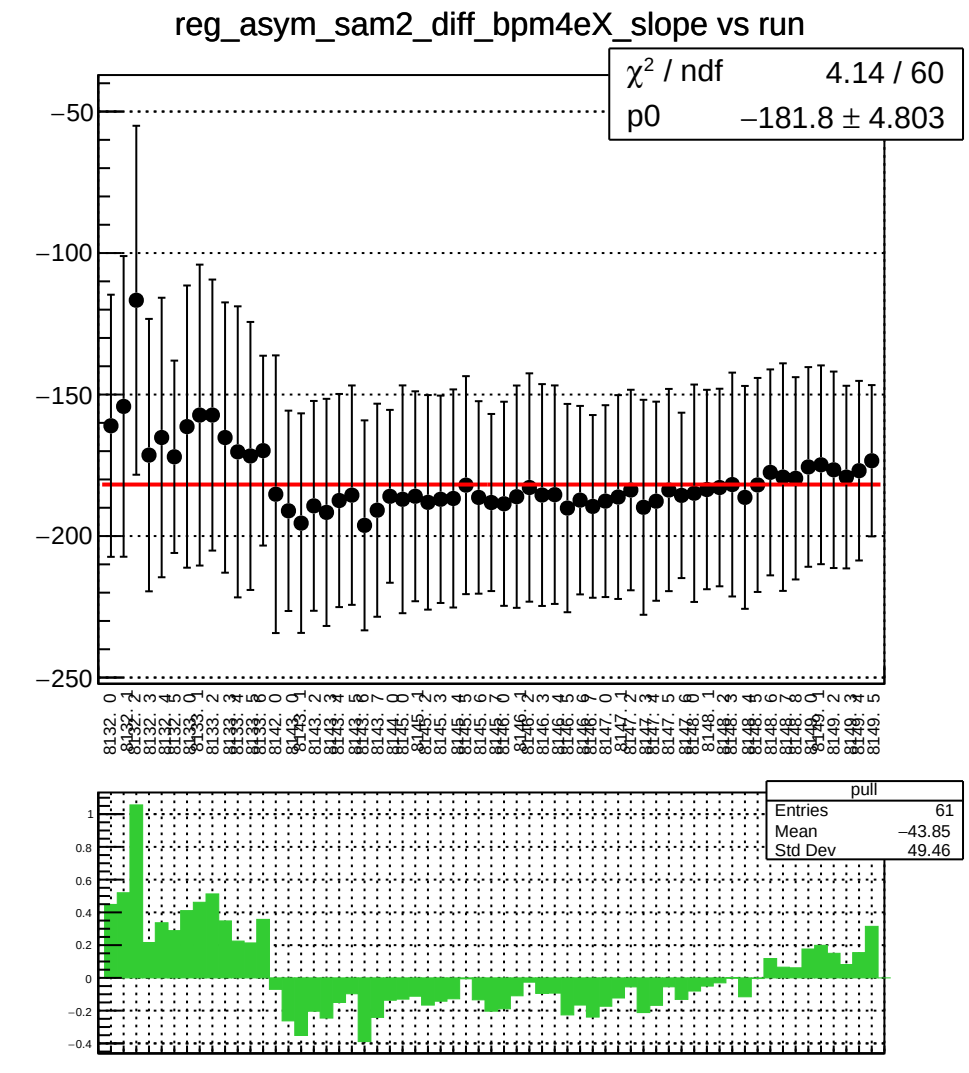

pull1D
Entries 61
Mean −0.2152
Std Dev 1.3

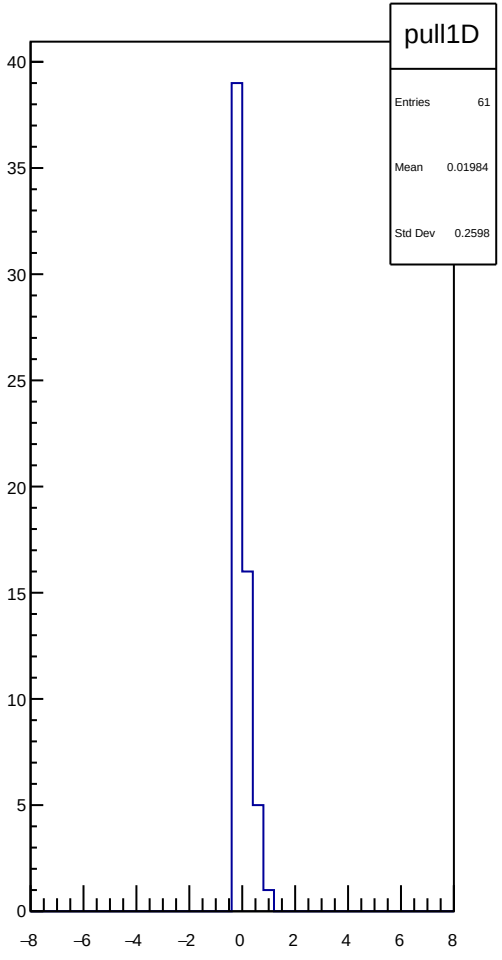

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 3.013 / 60
p0 −36.25 ± 4.792
pull
Entries 61
Mean −28.59
Std Dev 29.07

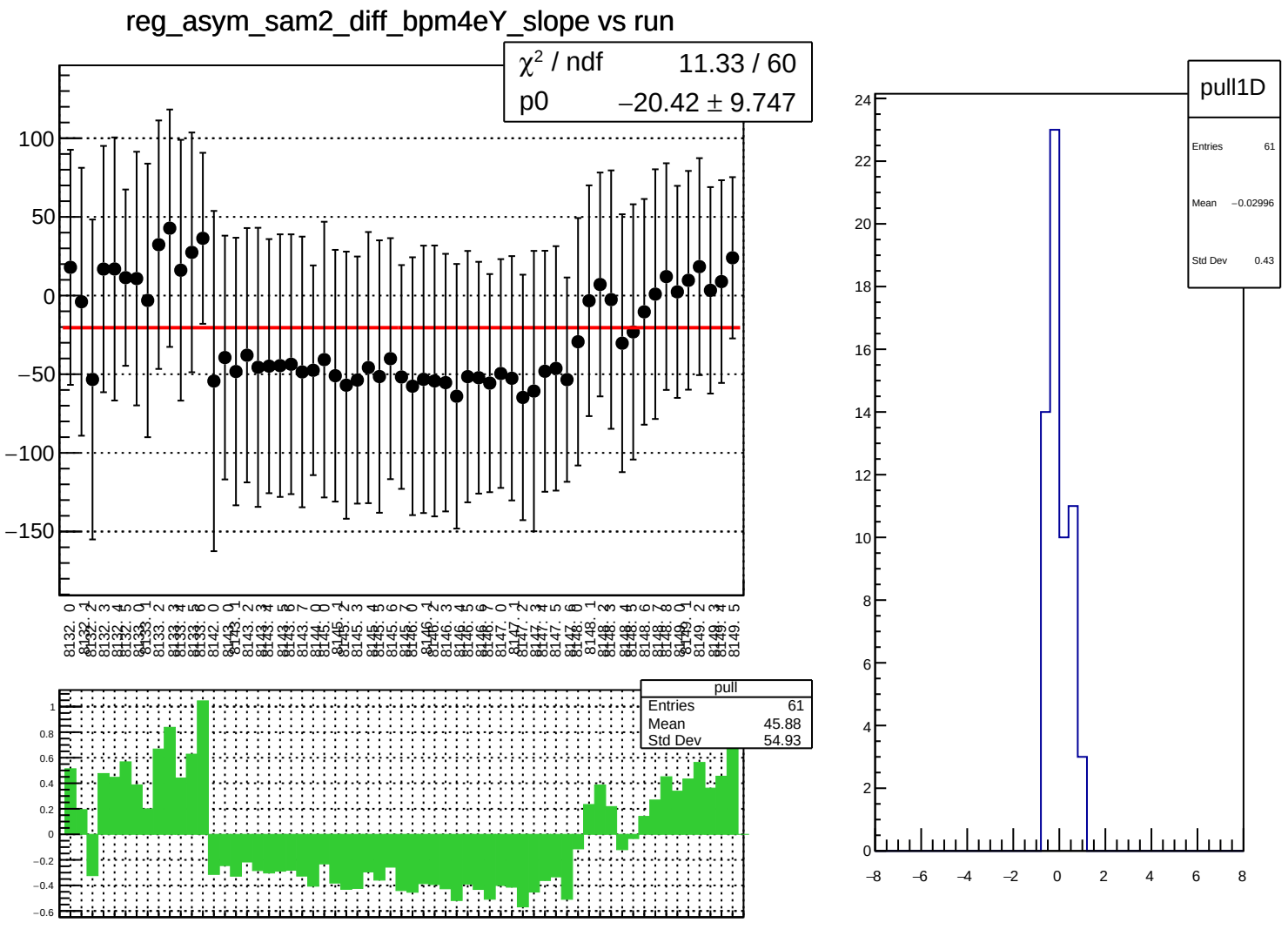

pull1D
Entries 61
Mean −0.01972
Std Dev 0.2214

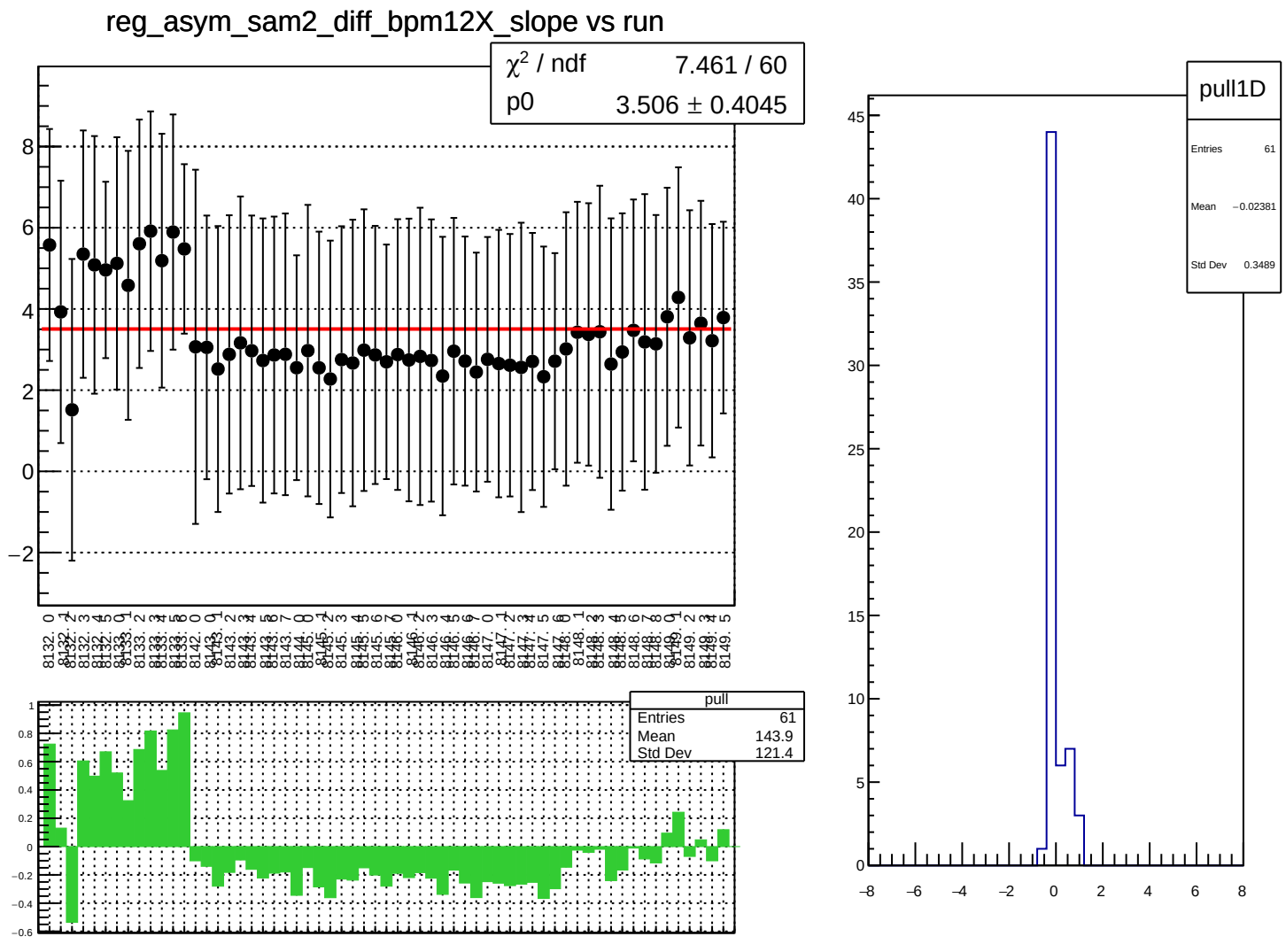

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 10.21 / 60
p0 −168.7 ± 9.11
pull
Entries 61
Mean 40.01
Std Dev 53.66

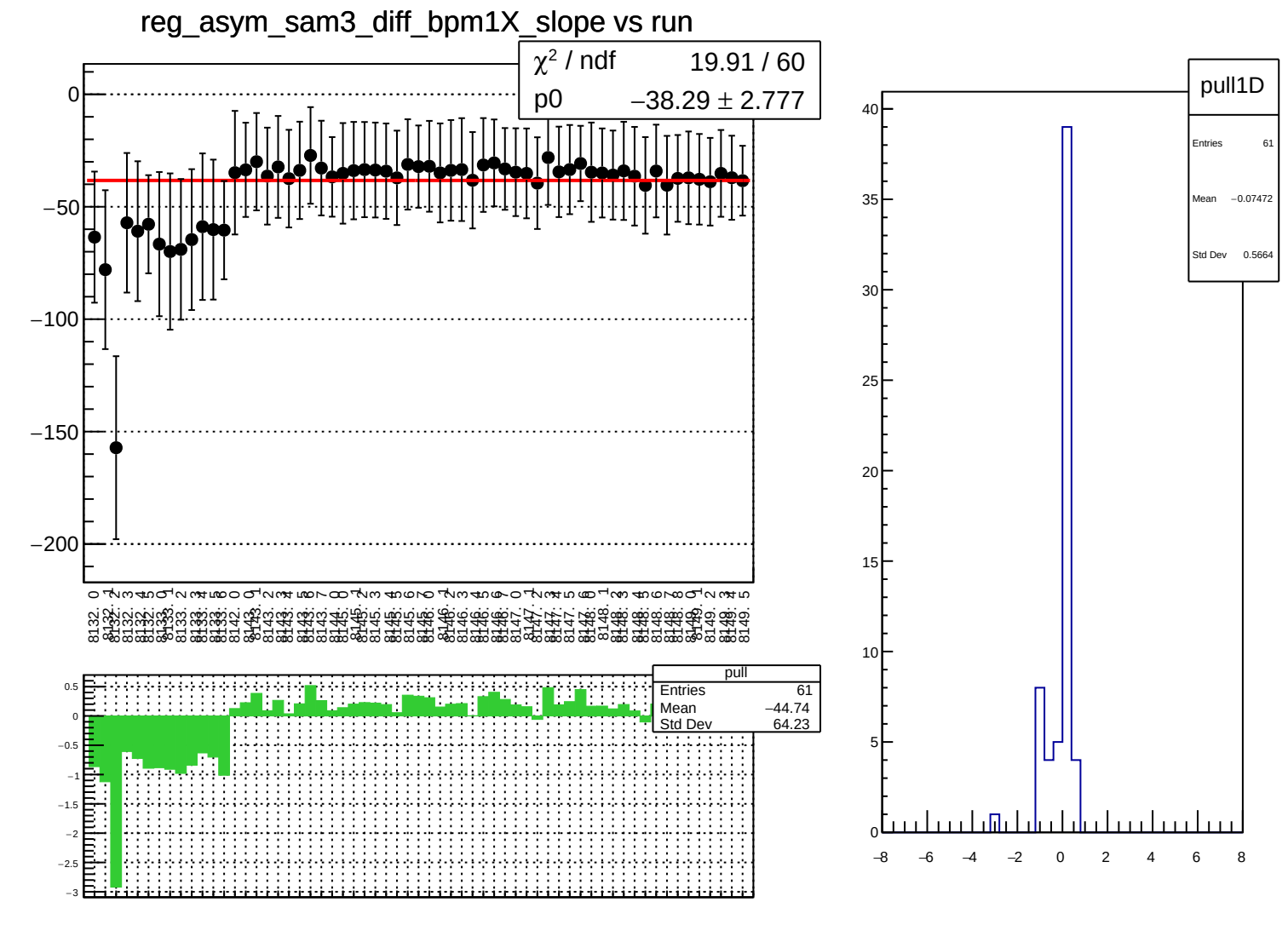

pull1D
Entries 61
Mean 0.02864
Std Dev 0.4081

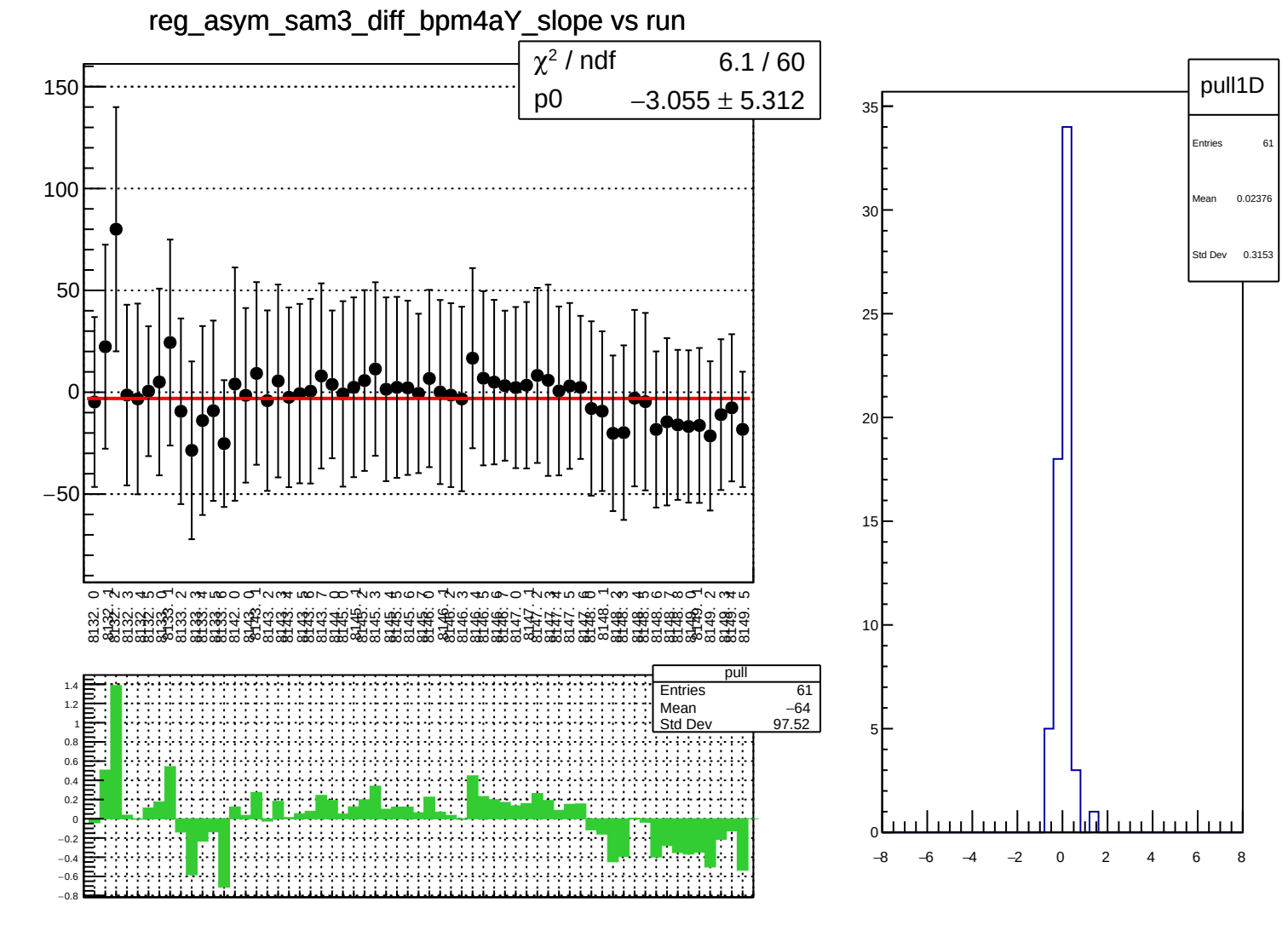

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 4.14 / 60
p0 −181.8 ± 4.803
pull
Entries 61
Mean −43.85
Std Dev 49.46

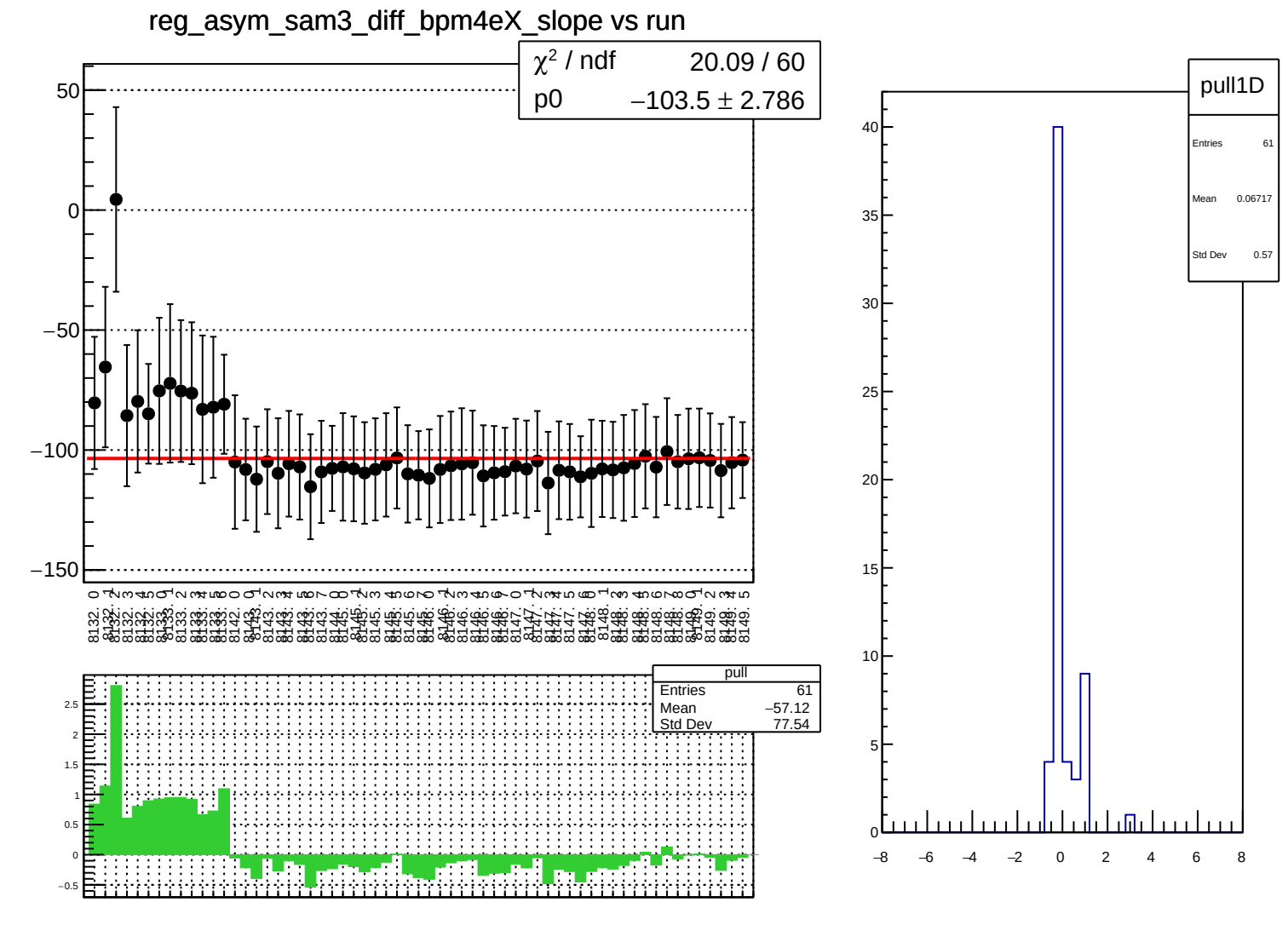

pull1D
Entries 61
Mean 0.01984
Std Dev 0.2598

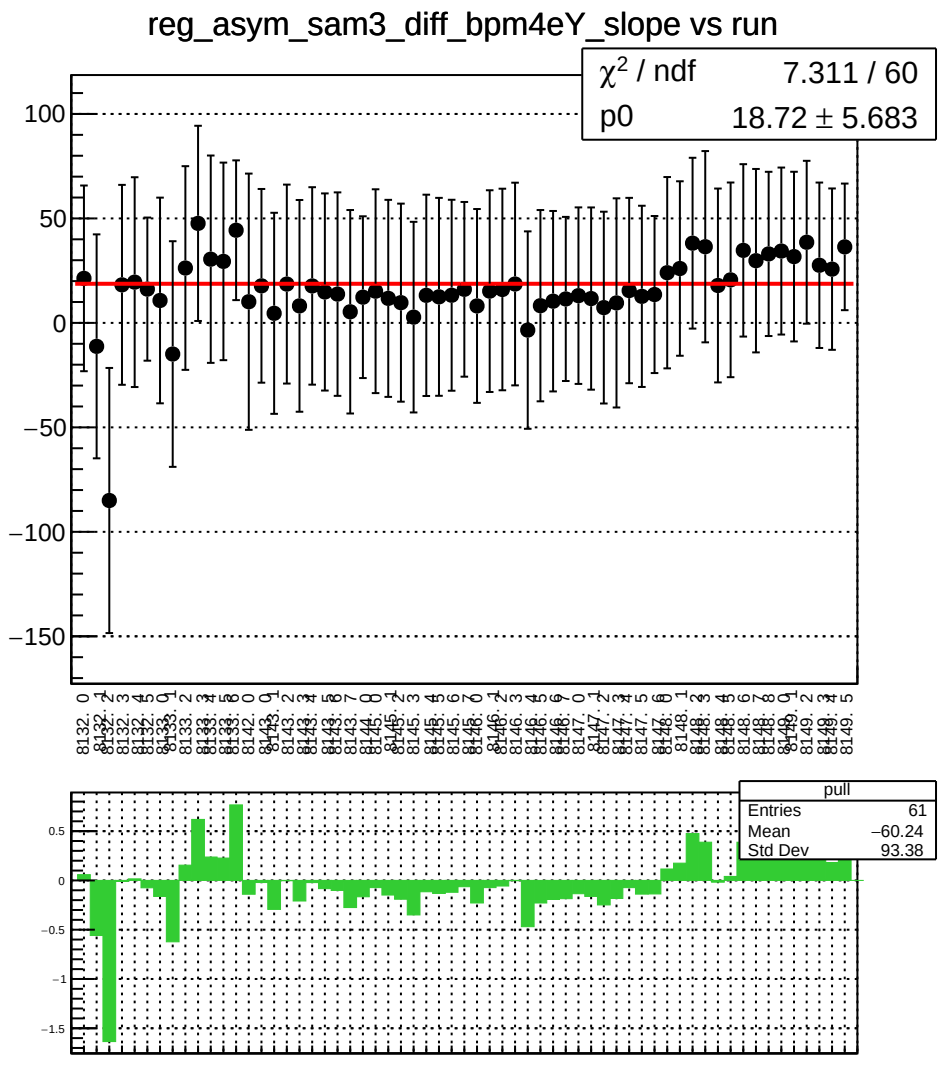

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 11.33 / 60
p0 −20.42 ± 9.747
pull
Entries 61
Mean 45.88
Std Dev 54.93
pull1D
Entries 61
Mean −0.02996
Std Dev 0.43

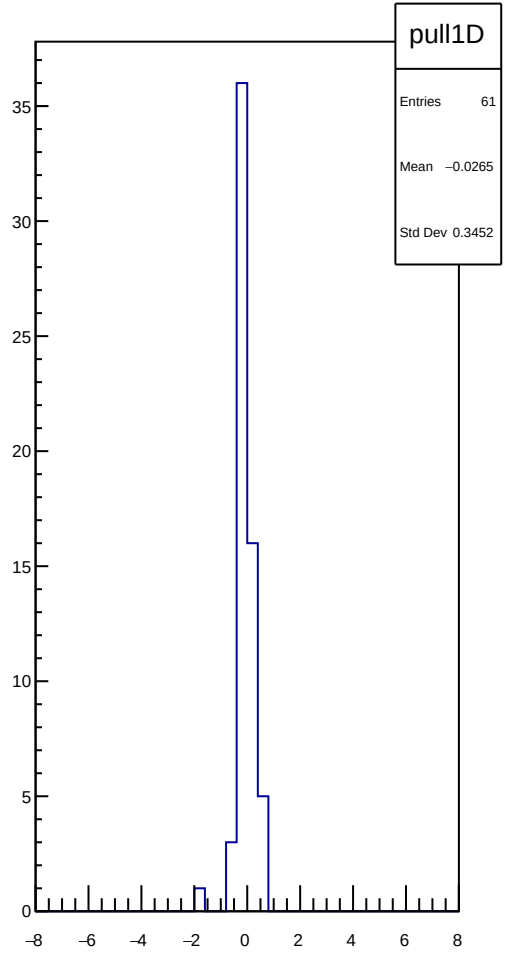

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 7.461 / 60
p0 3.506 ± 0.4045
pull
Entries 61
Mean 143.9
Std Dev 121.4
pull1D
Entries 61
Mean −0.02381
Std Dev 0.3489

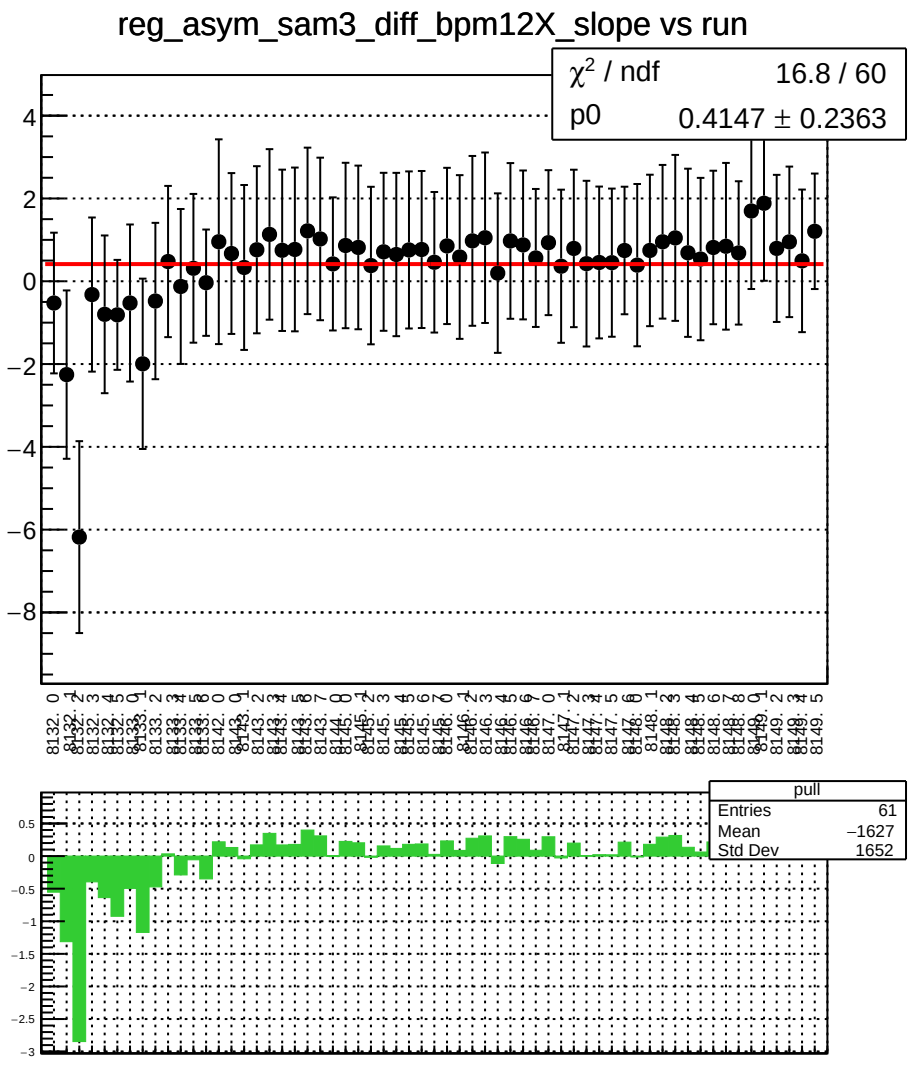

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 19.91 / 60
p0 −38.29 ± 2.777
pull
Entries 61
Mean −44.74
Std Dev 64.23
pull1D
Entries 61
Mean −0.07472
Std Dev 0.5664

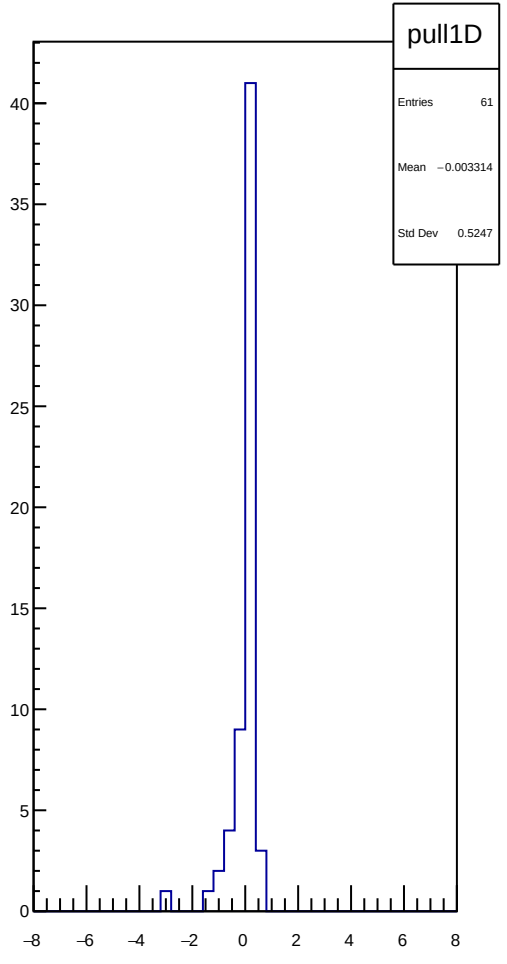

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 6.1 / 60
p0 −3.055 ± 5.312
pull
Entries 61
Mean −64
Std Dev 97.52
pull1D
Entries 61
Mean 0.02376
Std Dev 0.3153

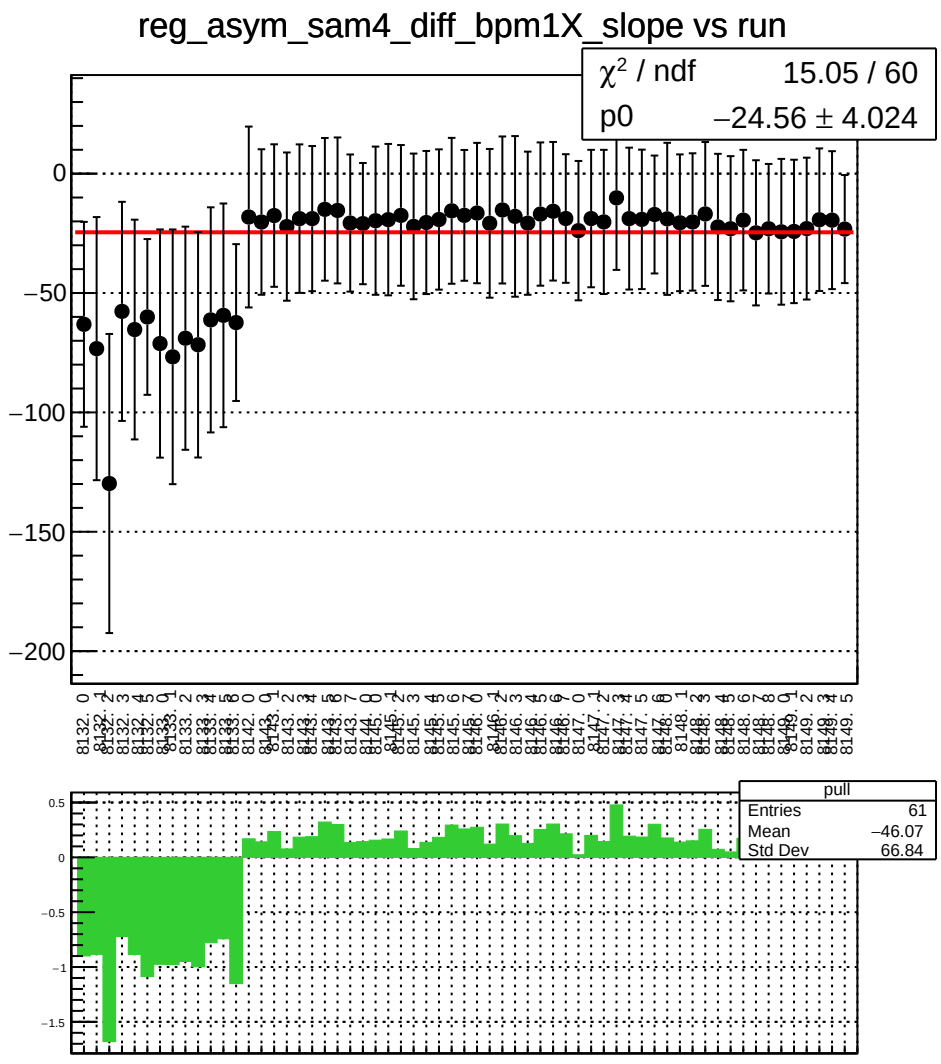

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 20.09 / 60
p0 −103.5 ± 2.786
pull
Entries 61
Mean −57.12
Std Dev 77.54
pull1D
Entries 61
Mean 0.06717
Std Dev 0.57

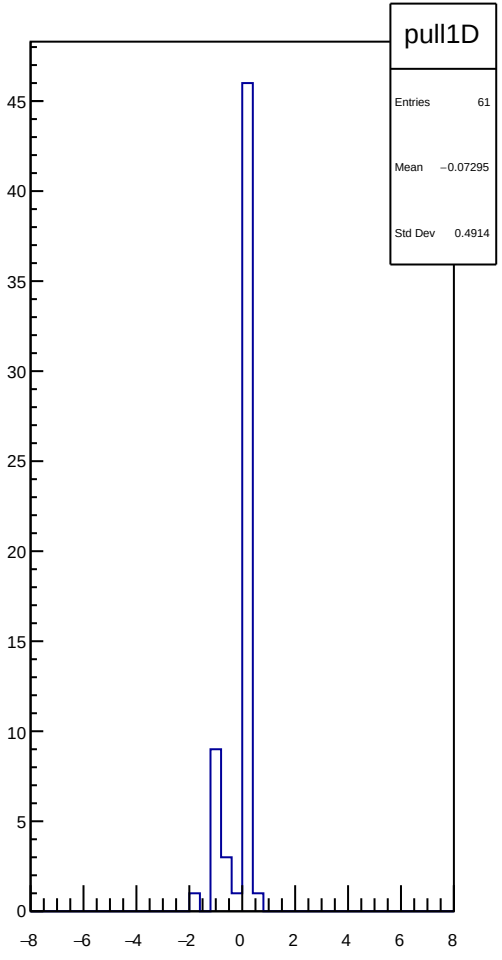

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 7.311 / 60
p0 18.72 ± 5.683
pull
Entries 61
Mean −60.24
Std Dev 93.38

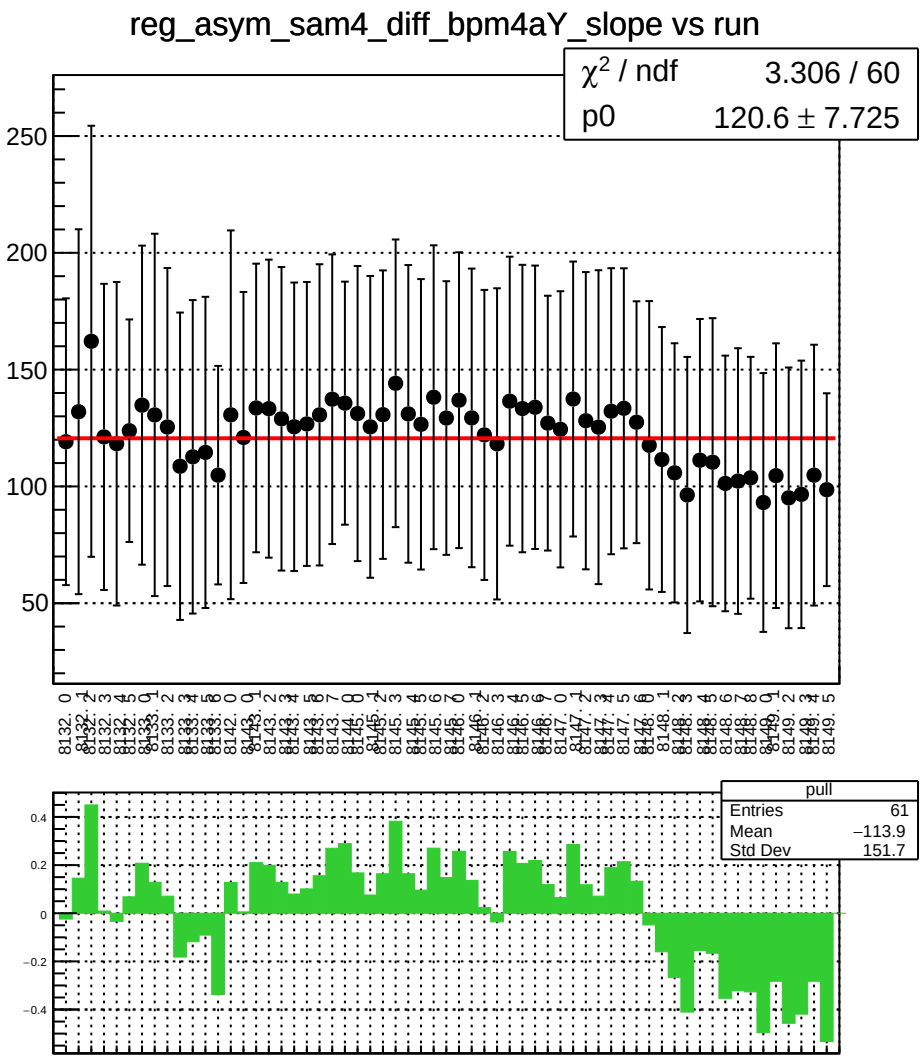

pull1D
Entries 61
Mean −0.0265
Std Dev 0.3452

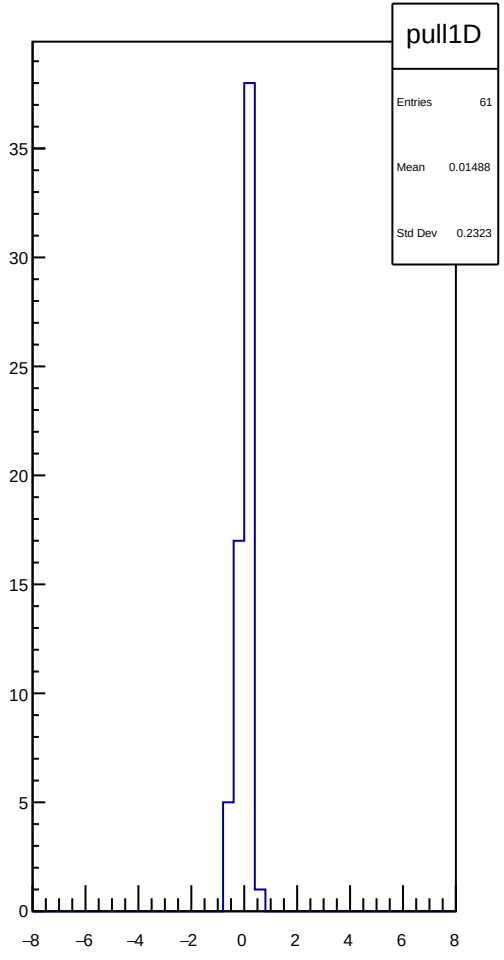

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 16.8 / 60
p0 0.4147 ± 0.2363
pull
Entries 61
Mean −1627
Std Dev 1652

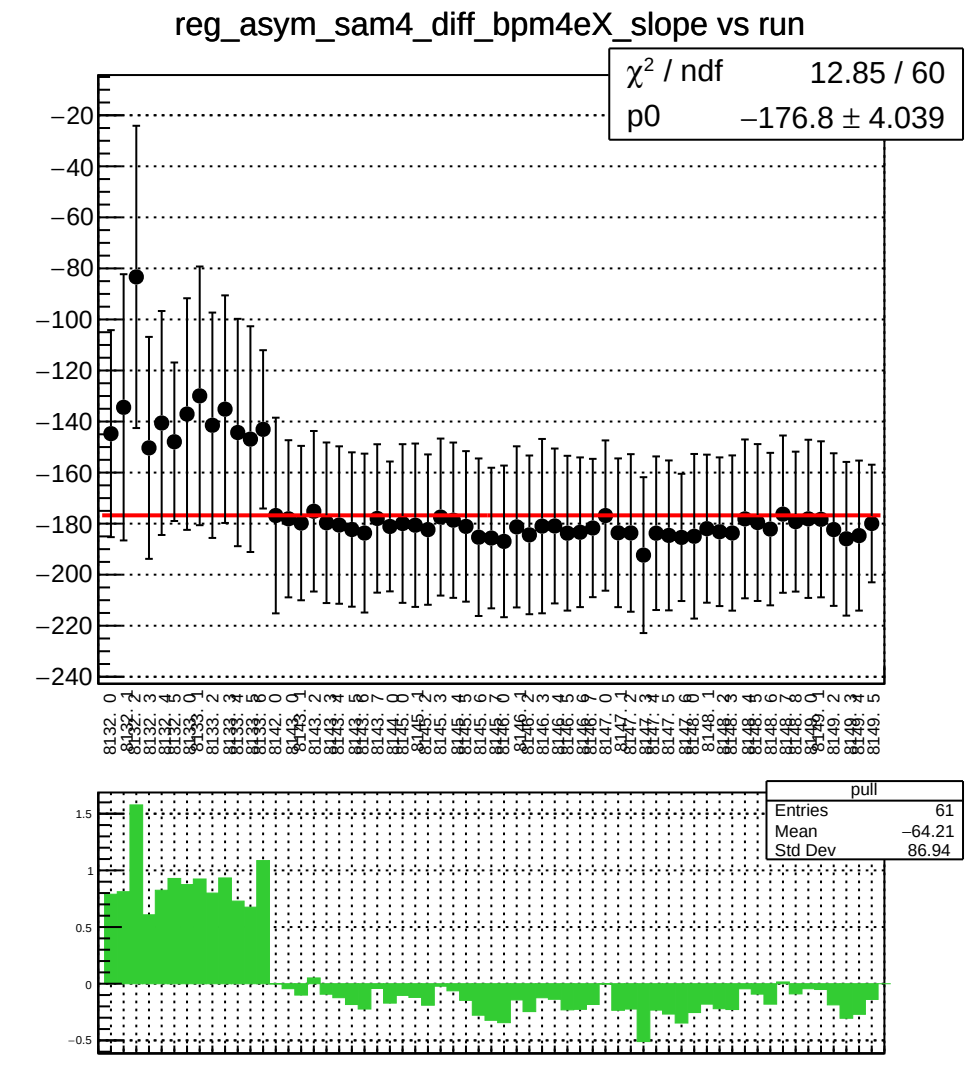

pull1D
Entries 61
Mean −0.003314
Std Dev 0.5247

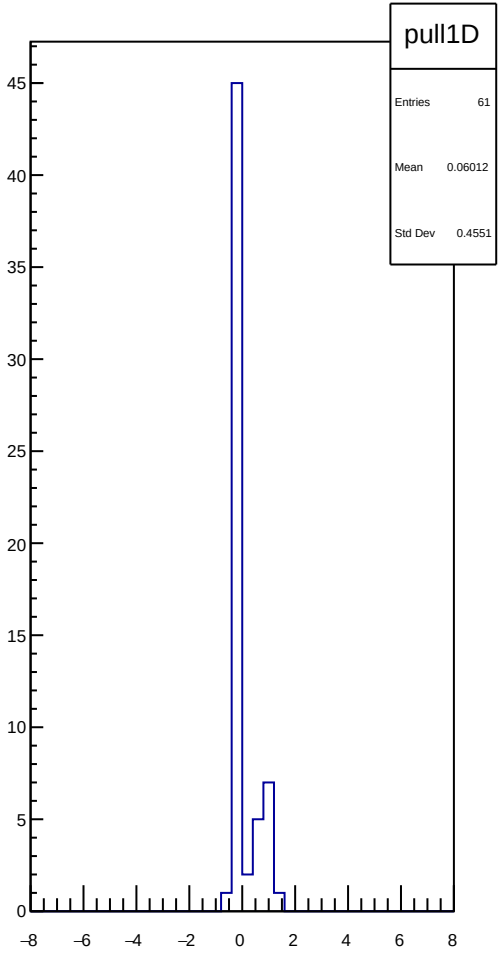

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 15.05 / 60
p0 −24.56 ± 4.024
pull
Entries 61
Mean −46.07
Std Dev 66.84

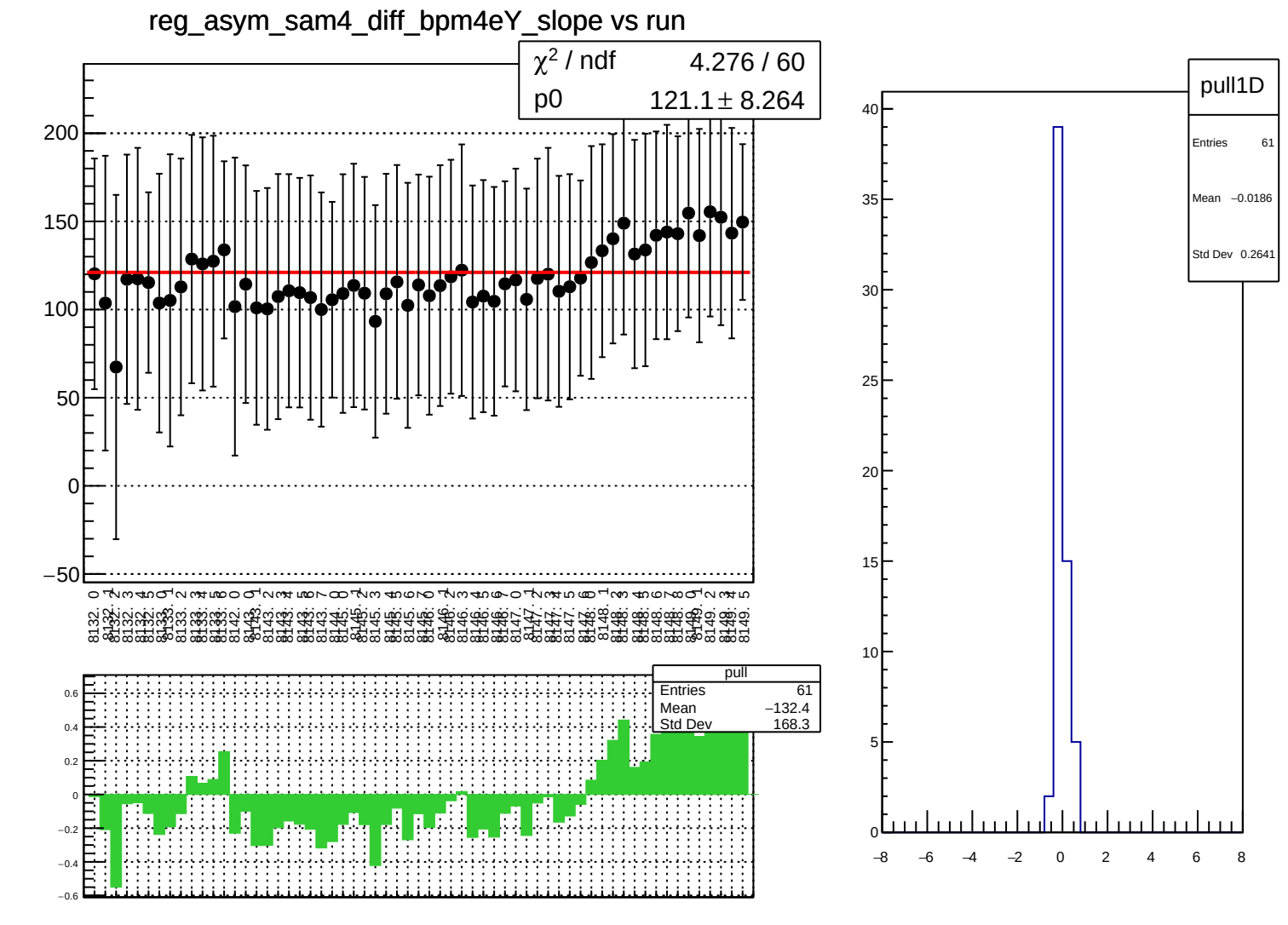

pull1D
Entries 61
Mean −0.07295
Std Dev 0.4914

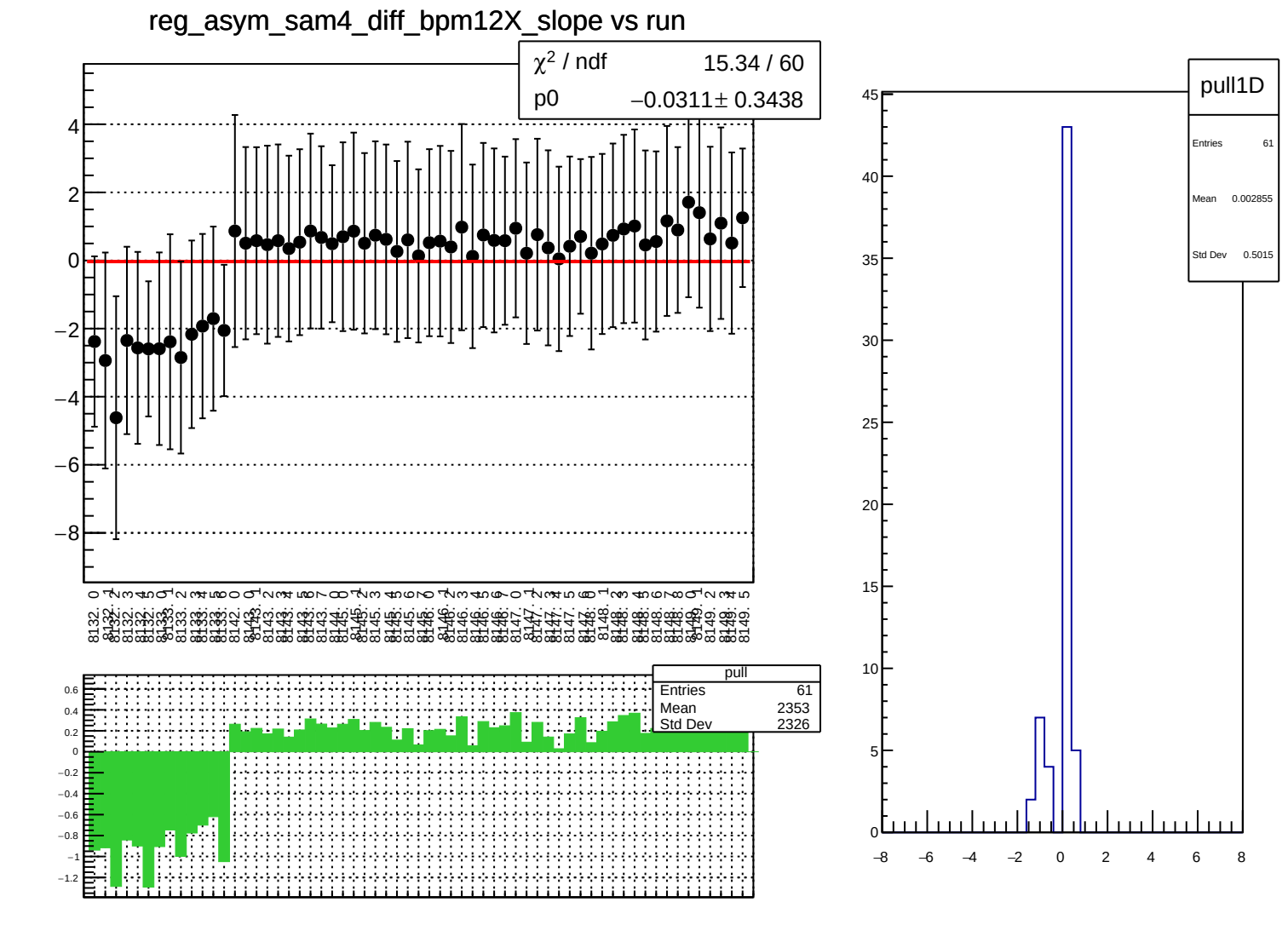

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 3.306 / 60
p0 120.6 ± 7.725
250
200
150
100
50
pull
Entries 61
Mean −113.9
Std Dev 151.7
0.4
0.2
0
−0.2
−0.4

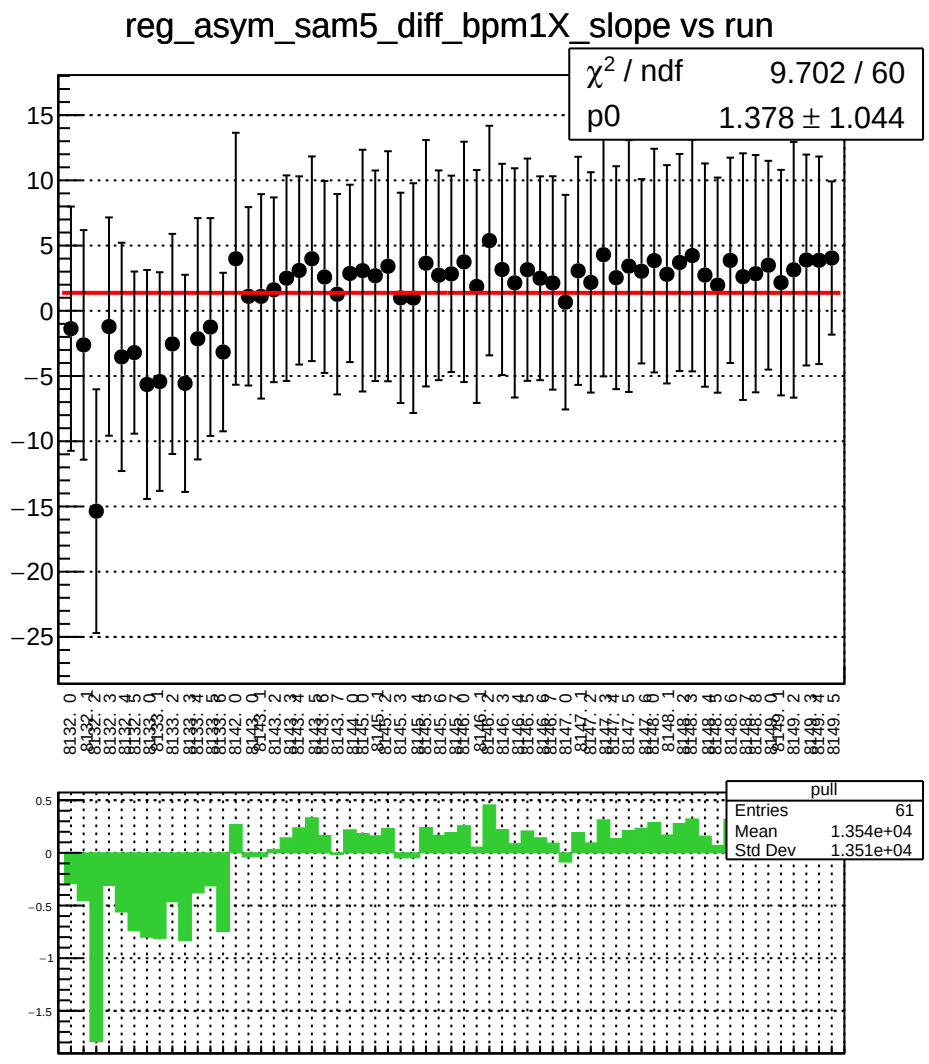

pull1D
Entries 61
Mean 0.01488
Std Dev 0.2323
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

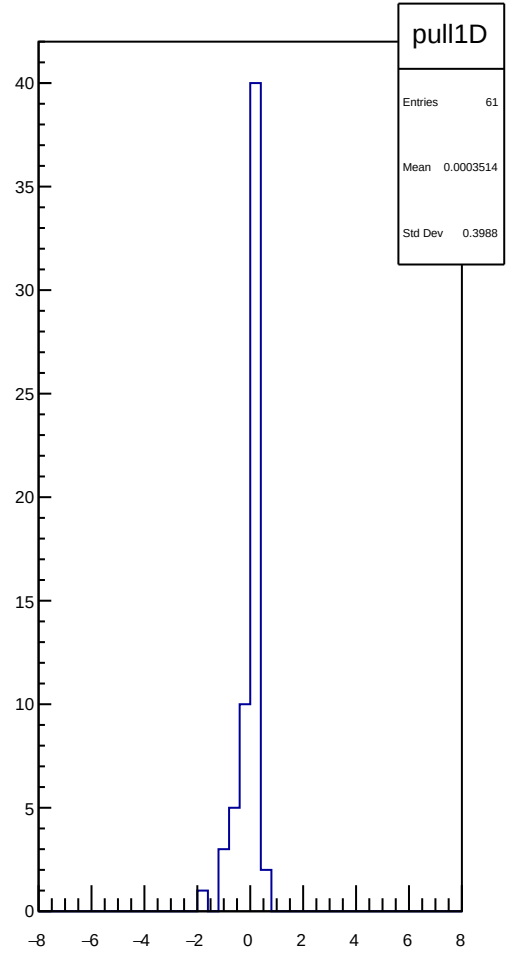

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 12.85 / 60
p0 −176.8 ± 4.039
pull
Entries 61
Mean −64.21
Std Dev 86.94

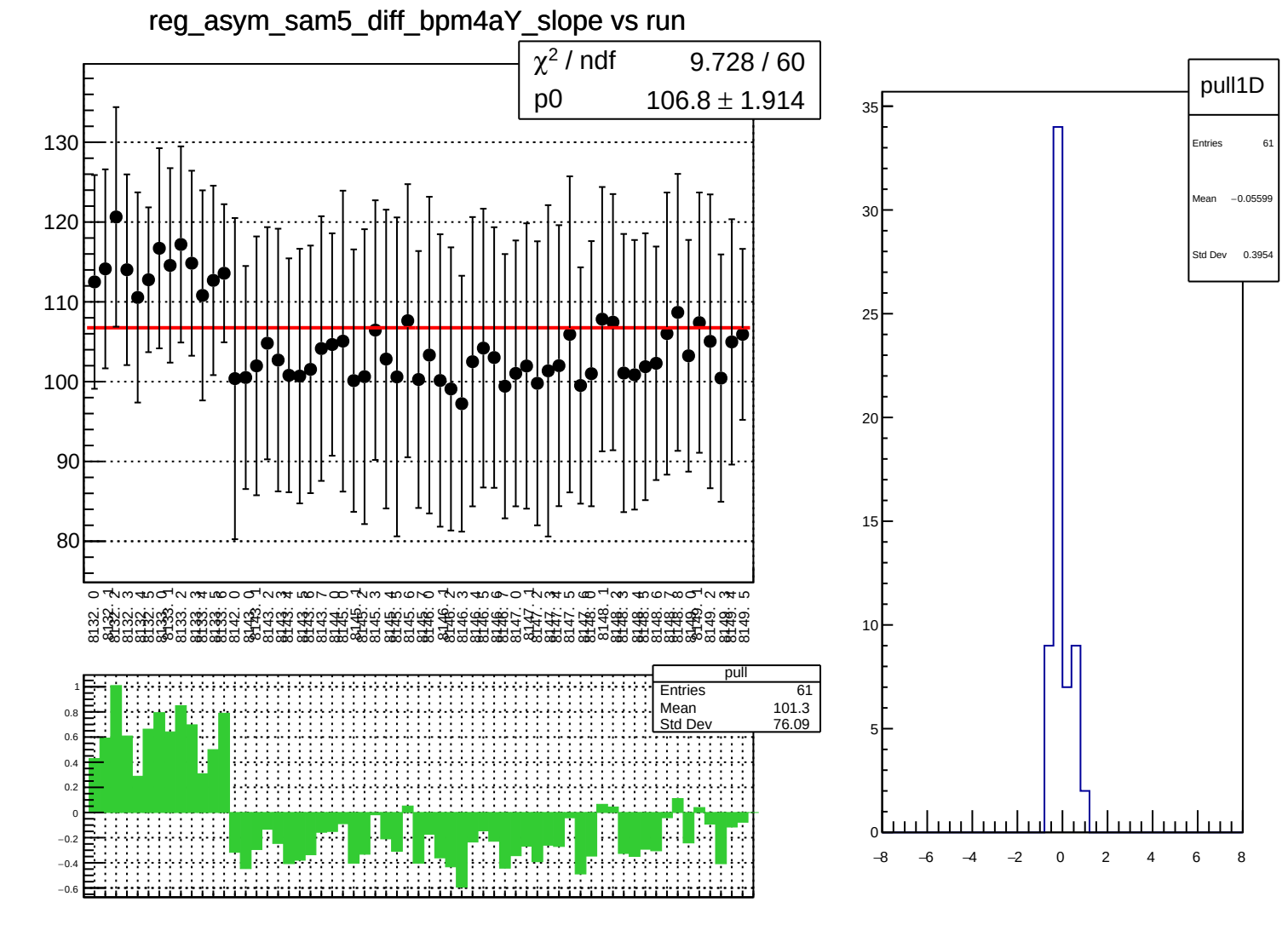

pull1D
Entries 61
Mean 0.06012
Std Dev 0.4551

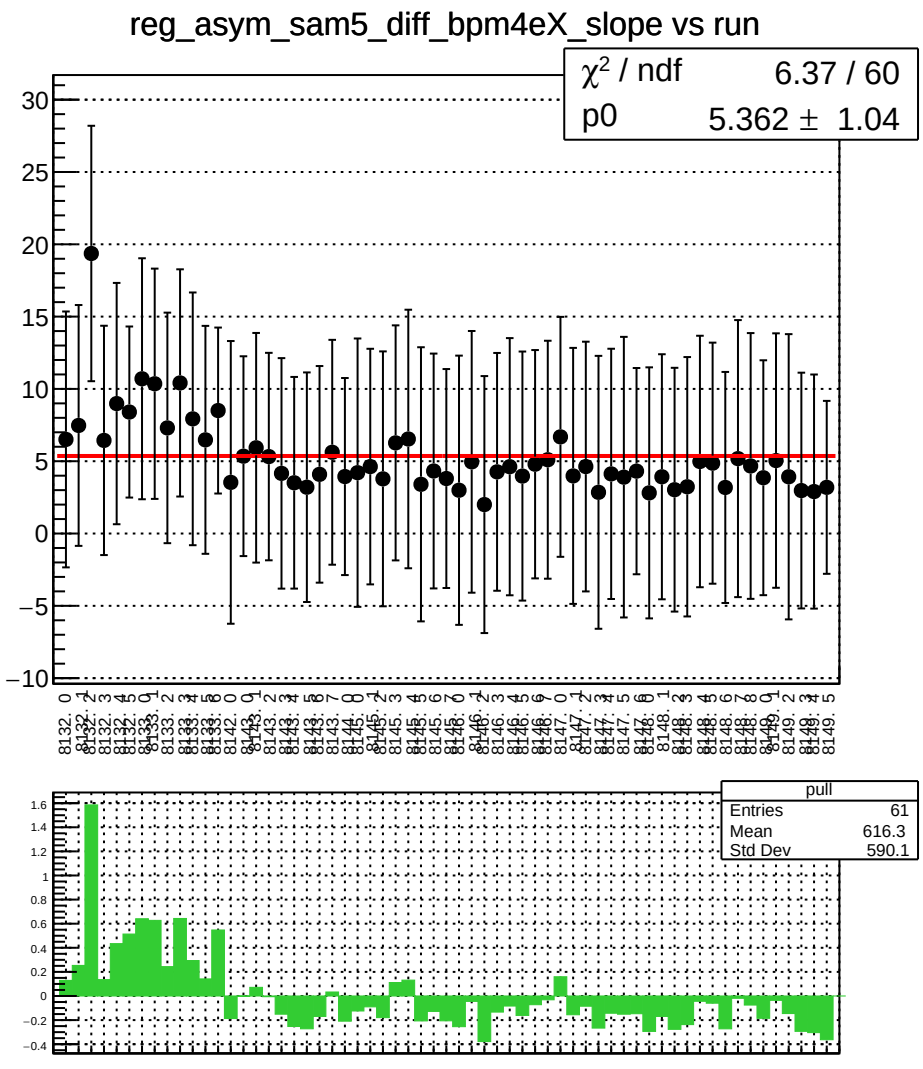

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 4.276 / 60
p0 121.1 ± 8.264
pull
Entries 61
Mean −132.4
Std Dev 168.3
pull1D
Entries 61
Mean −0.0186
Std Dev 0.2641

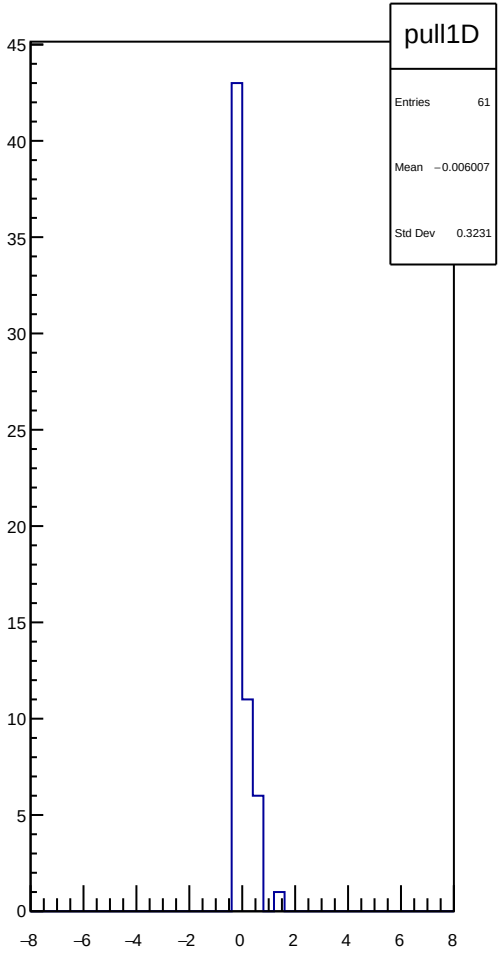

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 15.34 / 60
p0 −0.0311± 0.3438
pull
Entries 61
Mean 2353
Std Dev 2326
pull1D
Entries 61
Mean 0.002855
Std Dev 0.5015

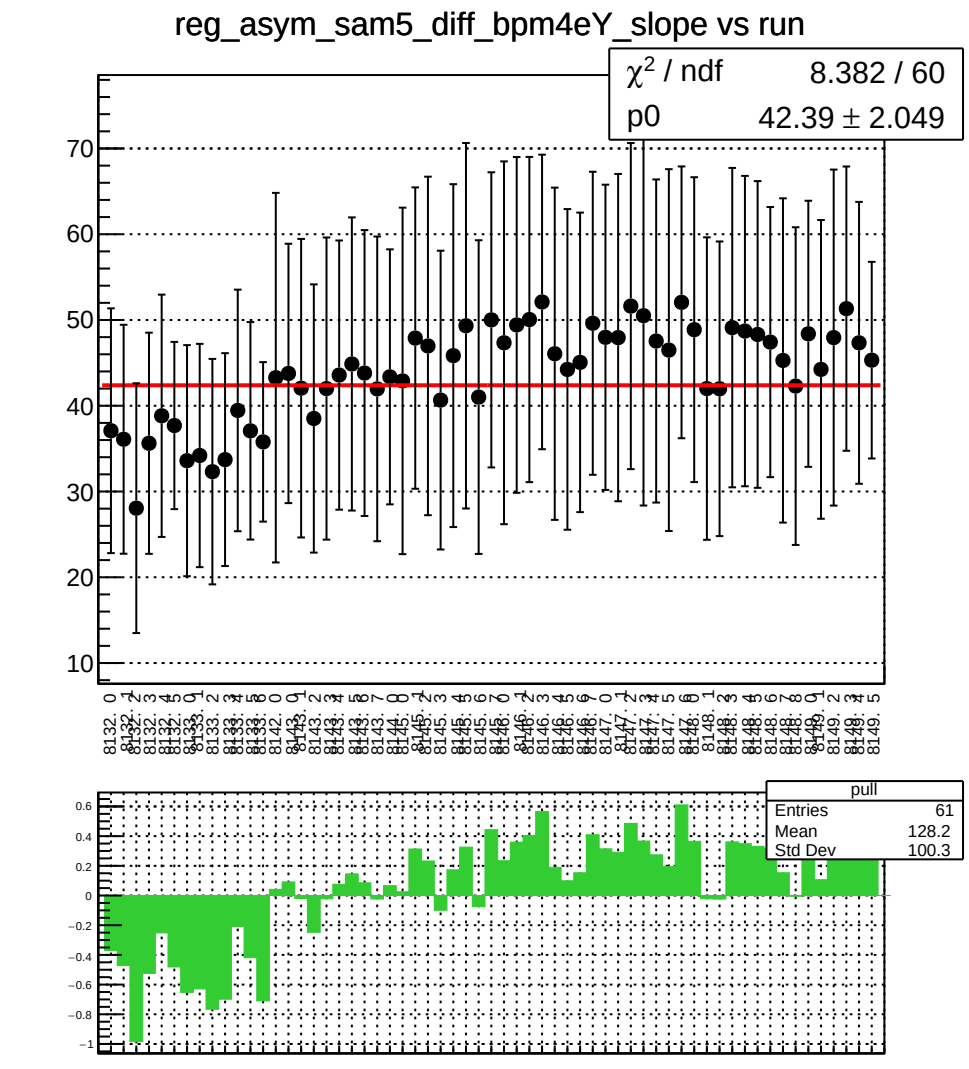

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 9.702 / 60
p0 1.378 ± 1.044
pull
Entries 61
Mean 1.354e+04
Std Dev 1.351e+04

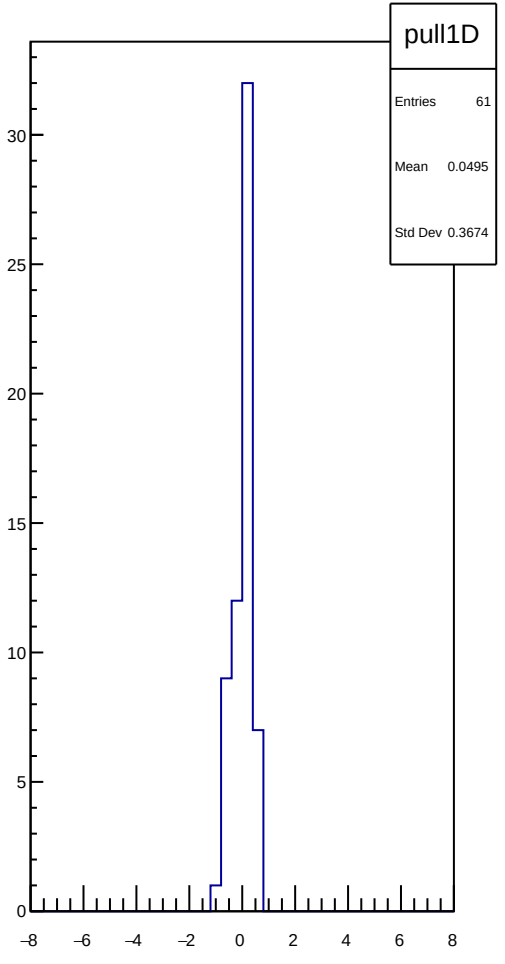

pull1D
Entries 61
Mean 0.0003514
Std Dev 0.3988

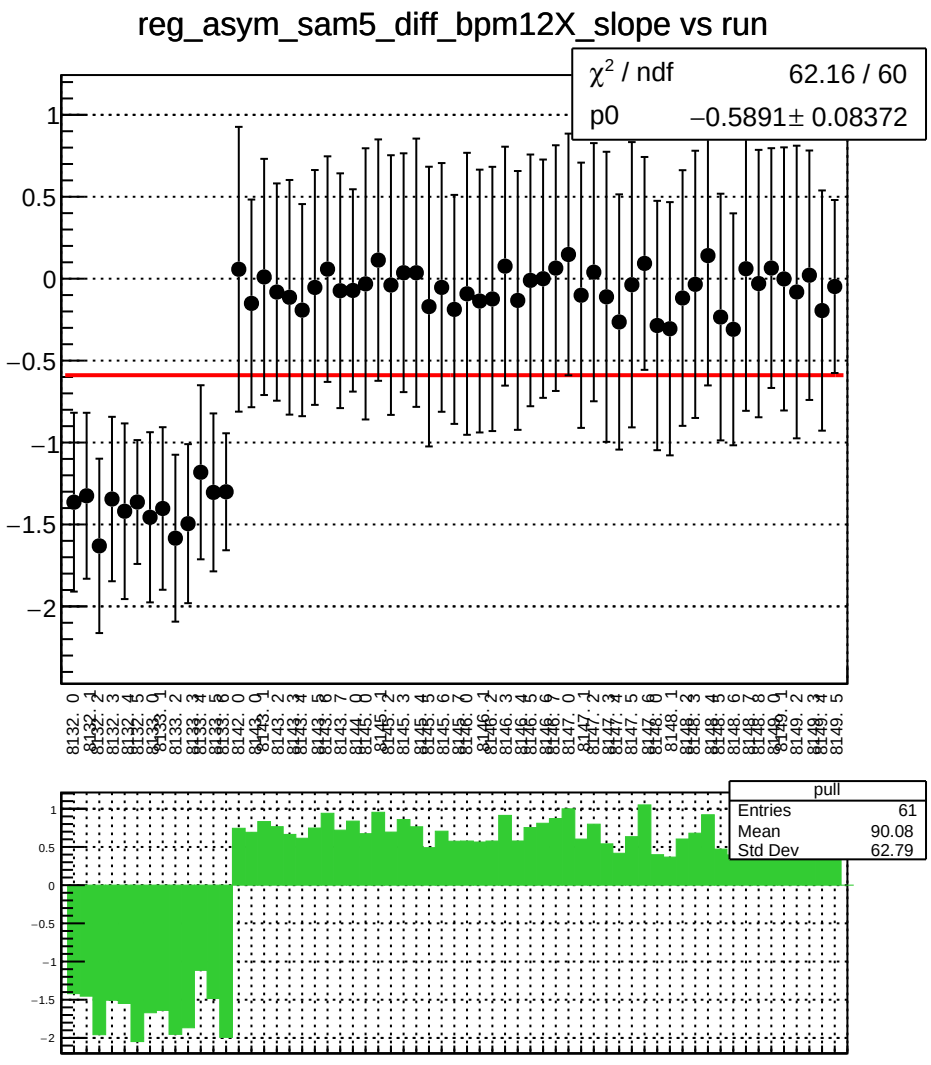

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 9.728 / 60
p0 106.8 ± 1.914
pull
Entries 61
Mean 101.3
Std Dev 76.09
pull1D
Entries 61
Mean −0.05599
Std Dev 0.3954

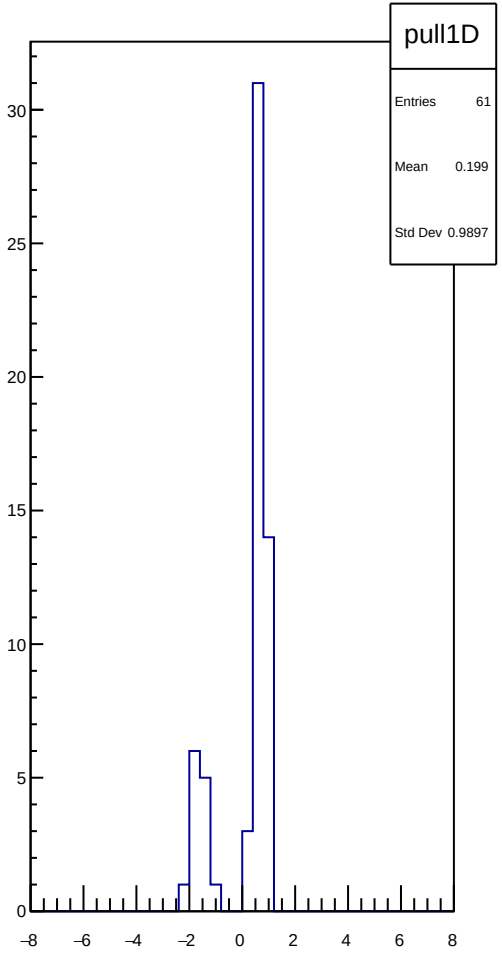

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 6.37 / 60
p0 5.362 ± 1.04
pull
Entries 61
Mean 616.3
Std Dev 590.1

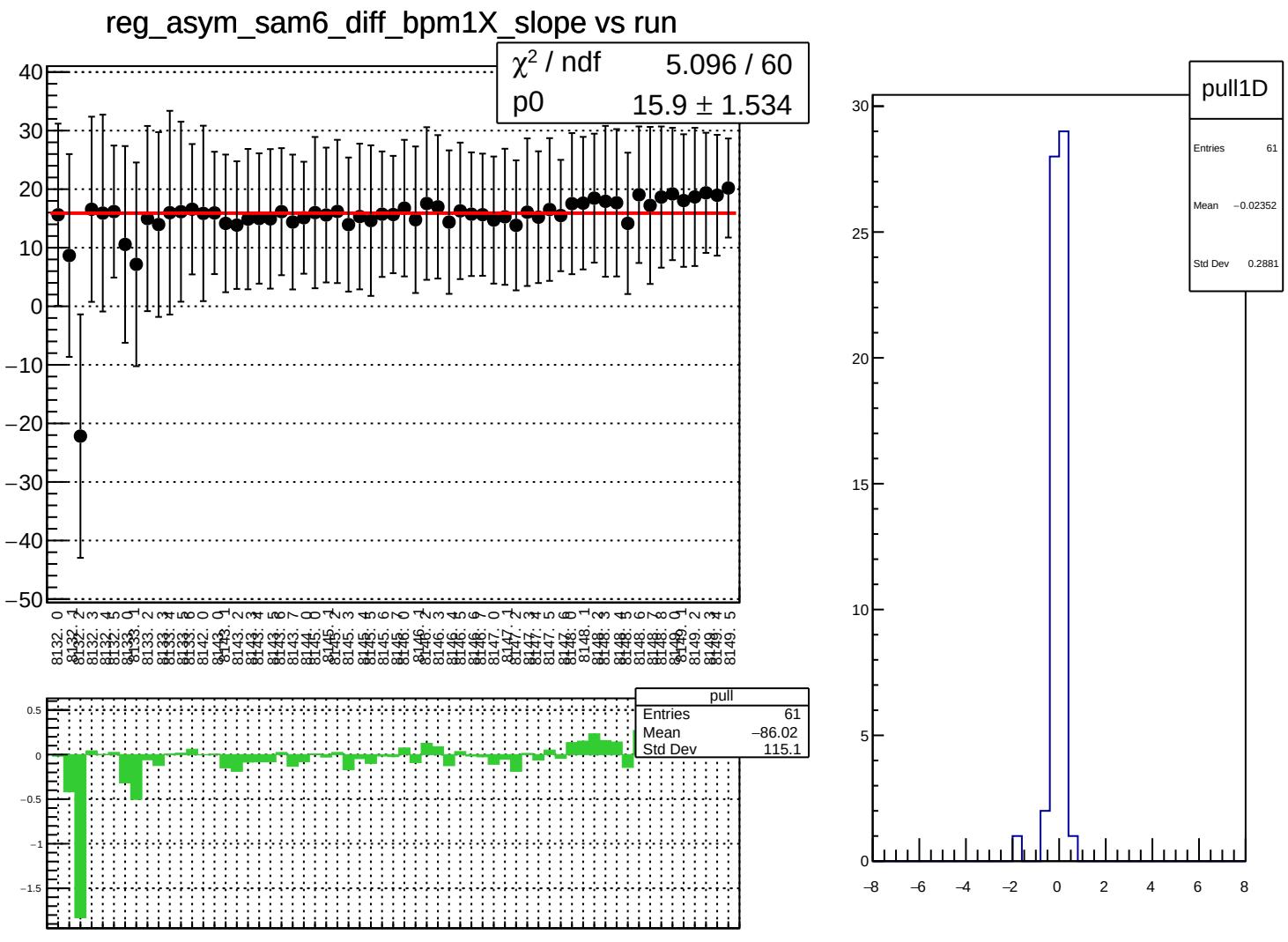

pull1D
Entries 61
Mean −0.006007
Std Dev 0.3231

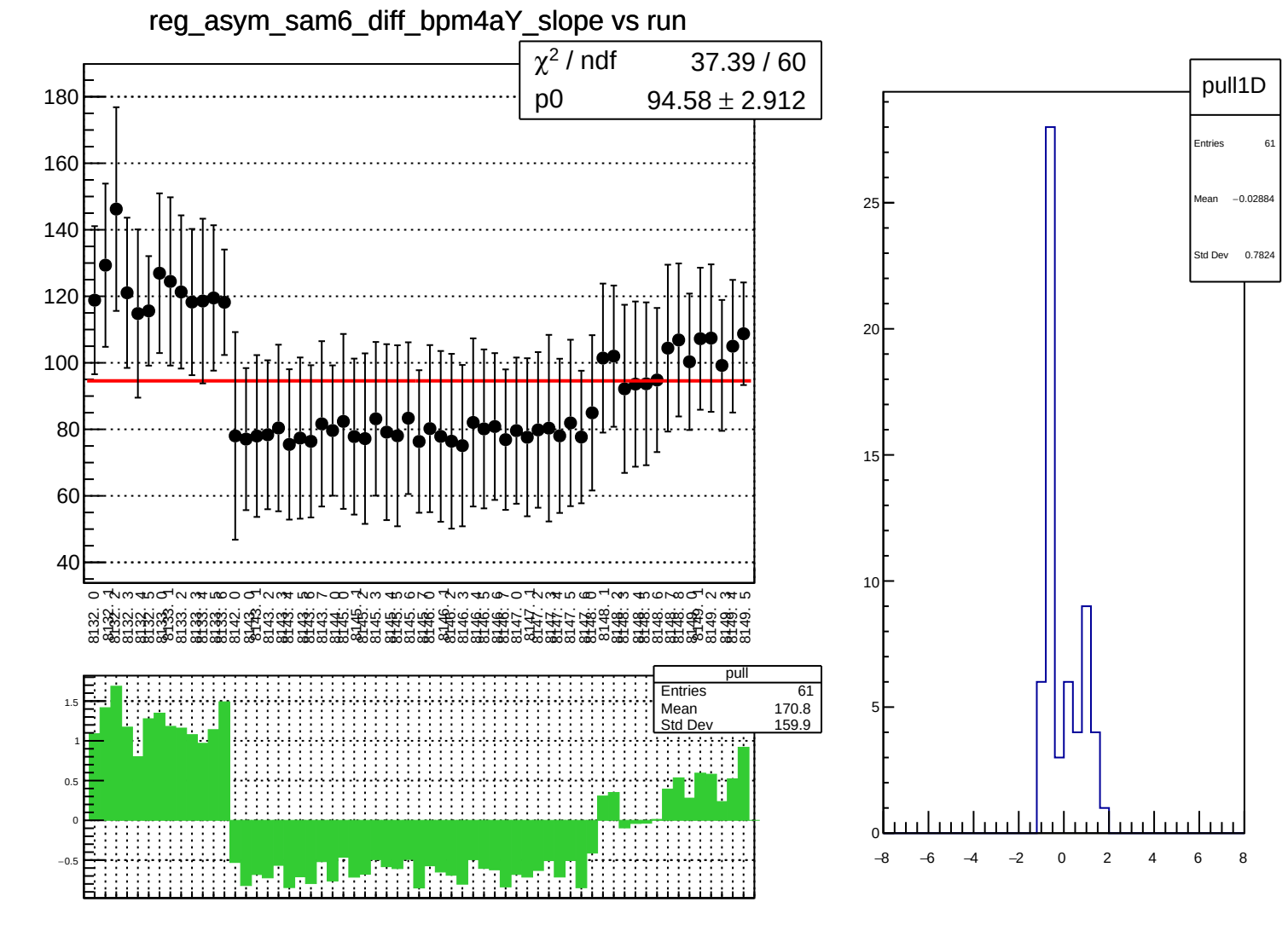

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 8.382 / 60
p0 42.39 ± 2.049
pull
Entries 61
Mean 128.2
Std Dev 100.3

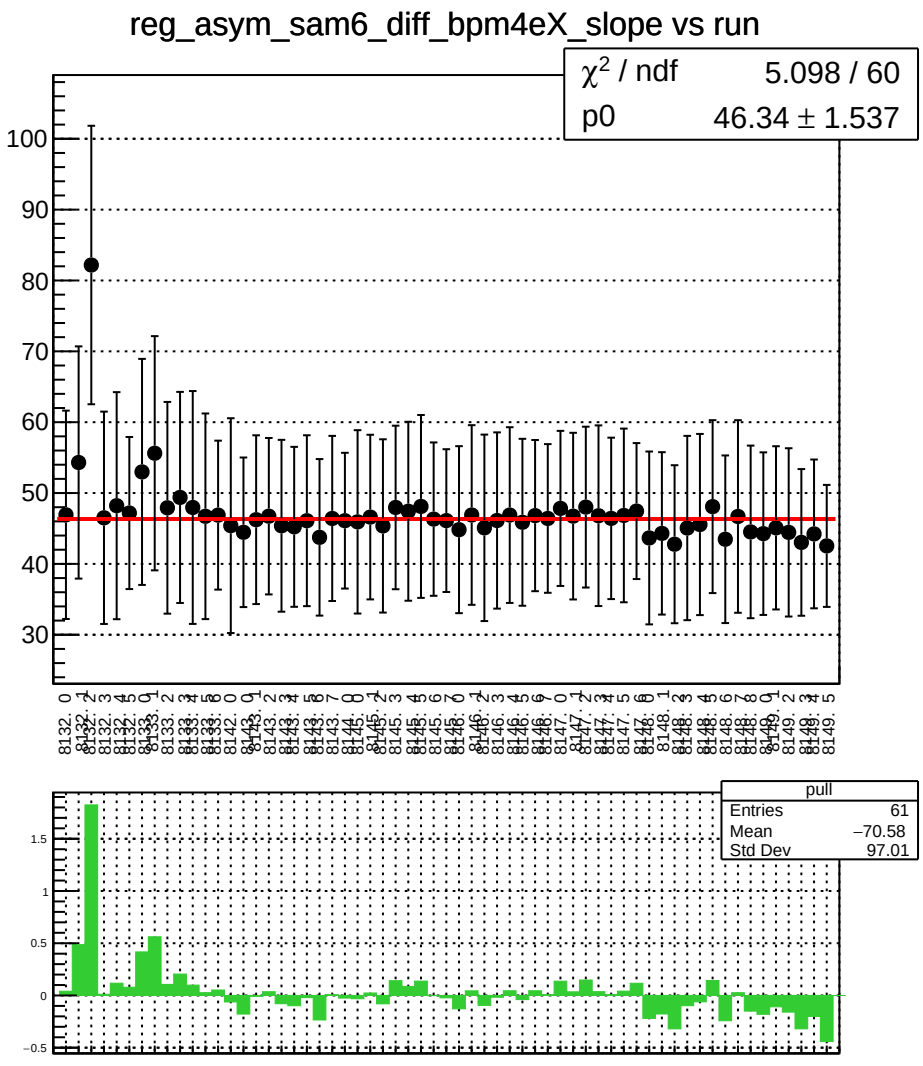

pull1D
Entries 61
Mean 0.0495
Std Dev 0.3674

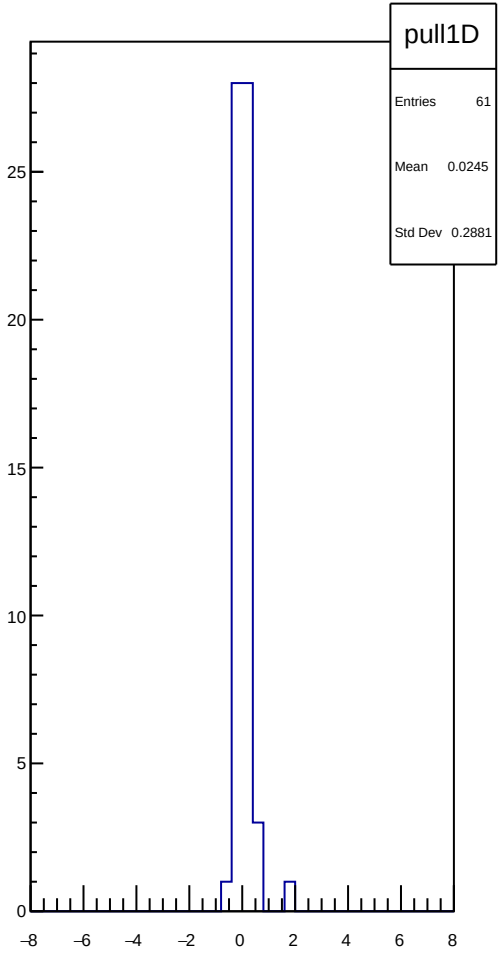

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 62.16 / 60
p0 −0.5891± 0.08372
pull
Entries 61
Mean 90.08
Std Dev 62.79

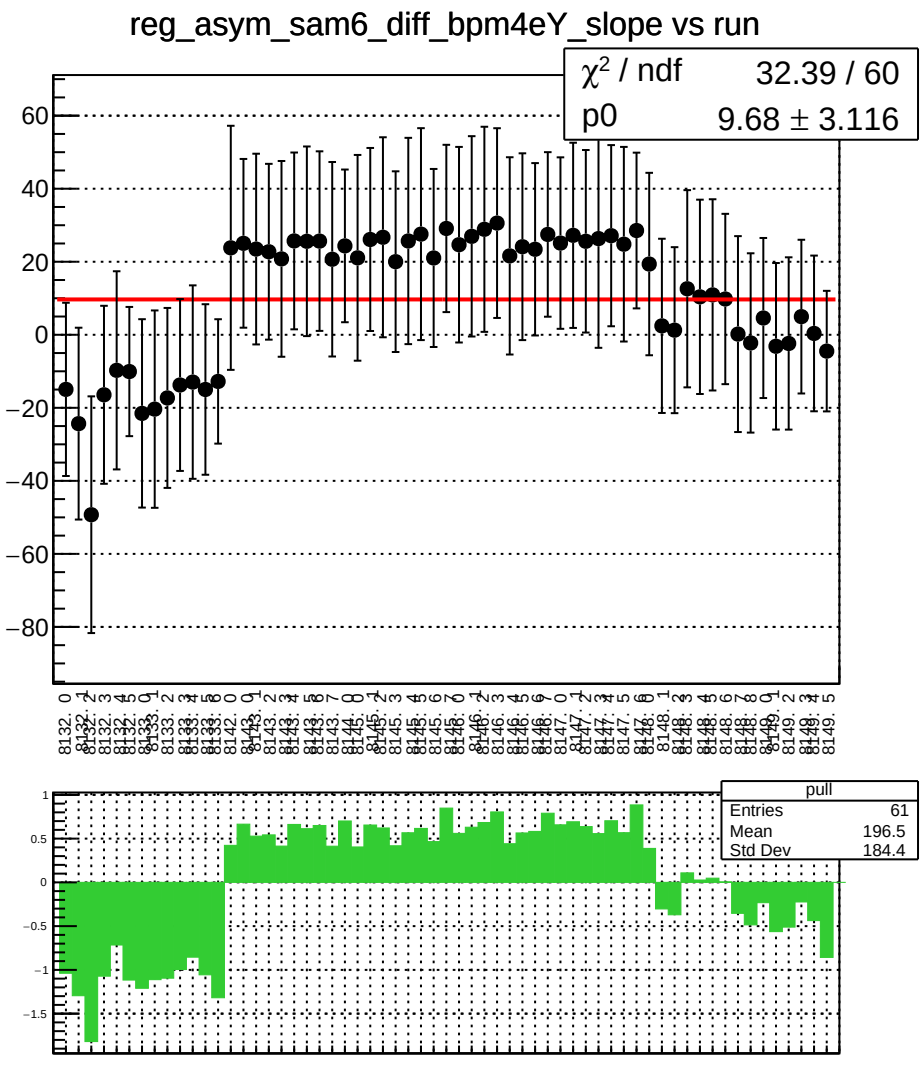

pull1D
Entries 61
Mean 0.199
Std Dev 0.9897

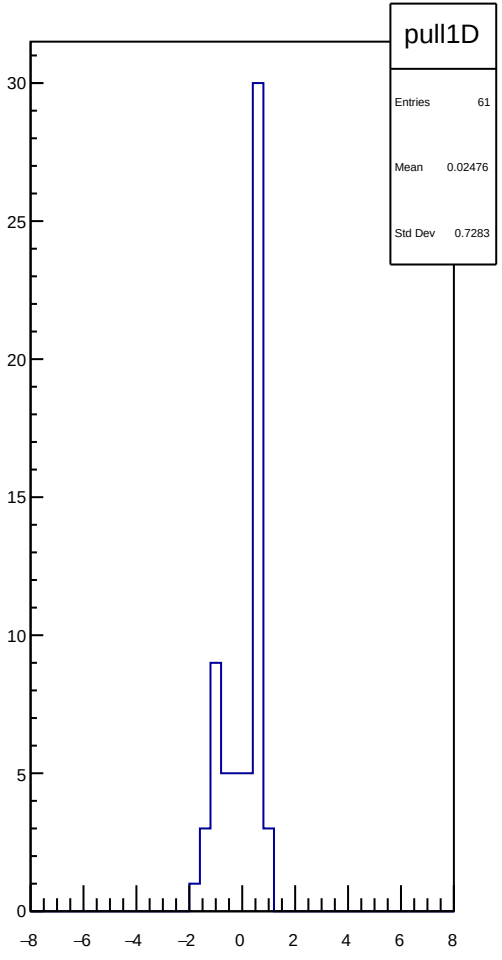

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 5.096 / 60
p0 15.9 ± 1.534
pull
Entries 61
Mean −86.02
Std Dev 115.1
pull1D
Entries 61
Mean −0.02352
Std Dev 0.2881

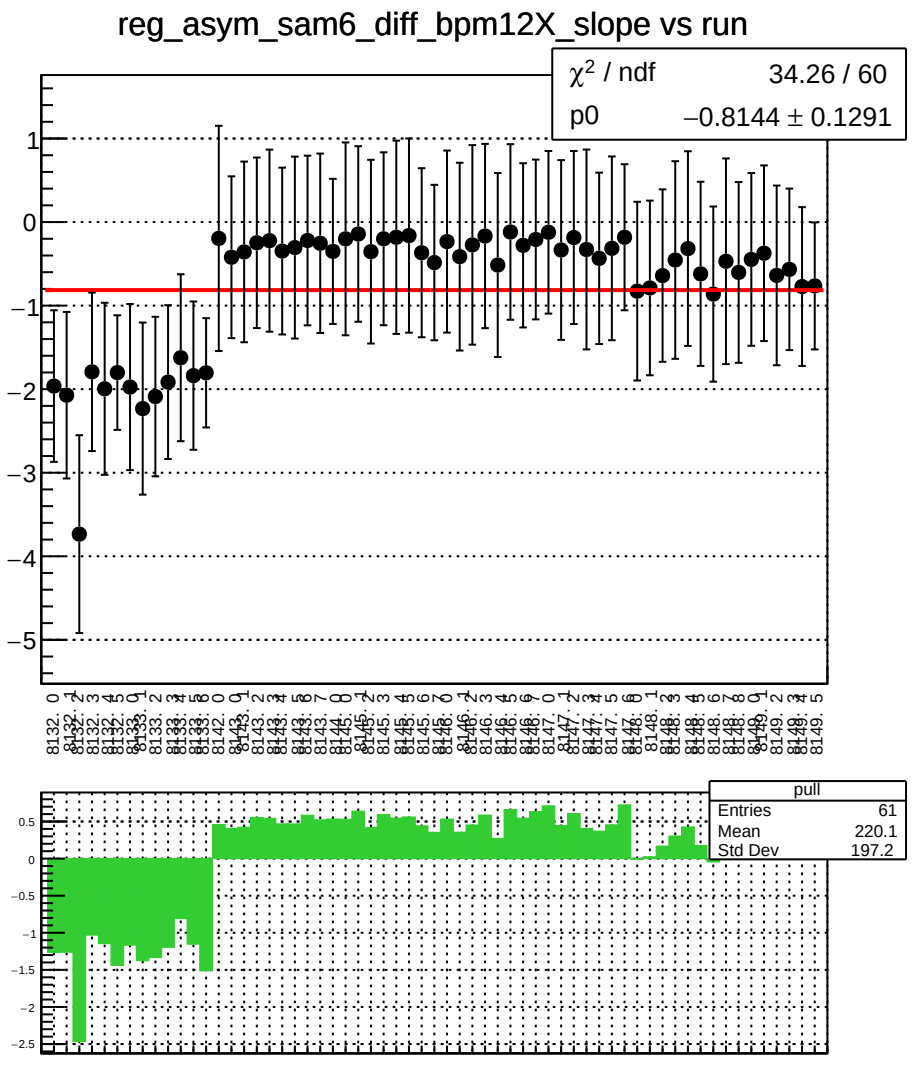

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 37.39 / 60
p0 94.58 ± 2.912
pull
Entries 61
Mean 170.8
Std Dev 159.9
pull1D
Entries 61
Mean −0.02884
Std Dev 0.7824

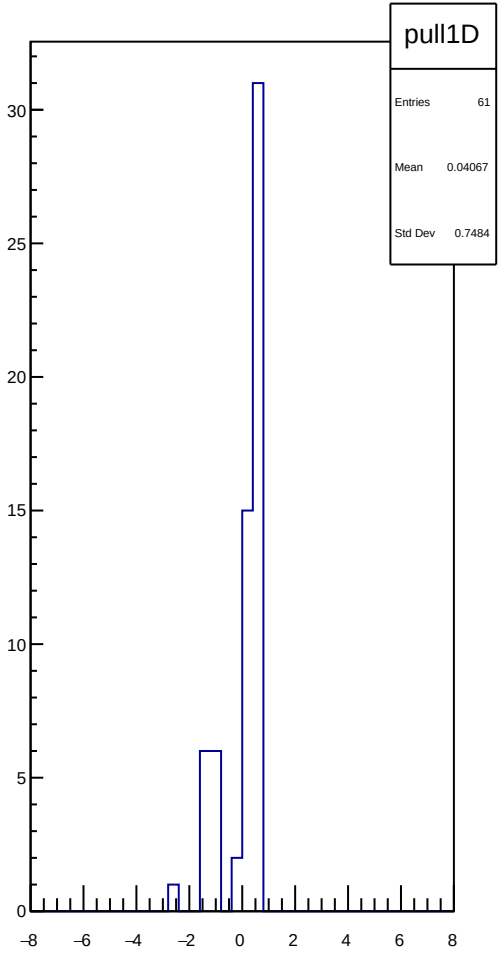

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 5.098 / 60
p0 46.34 ± 1.537
pull
Entries 61
Mean −70.58
Std Dev 97.01

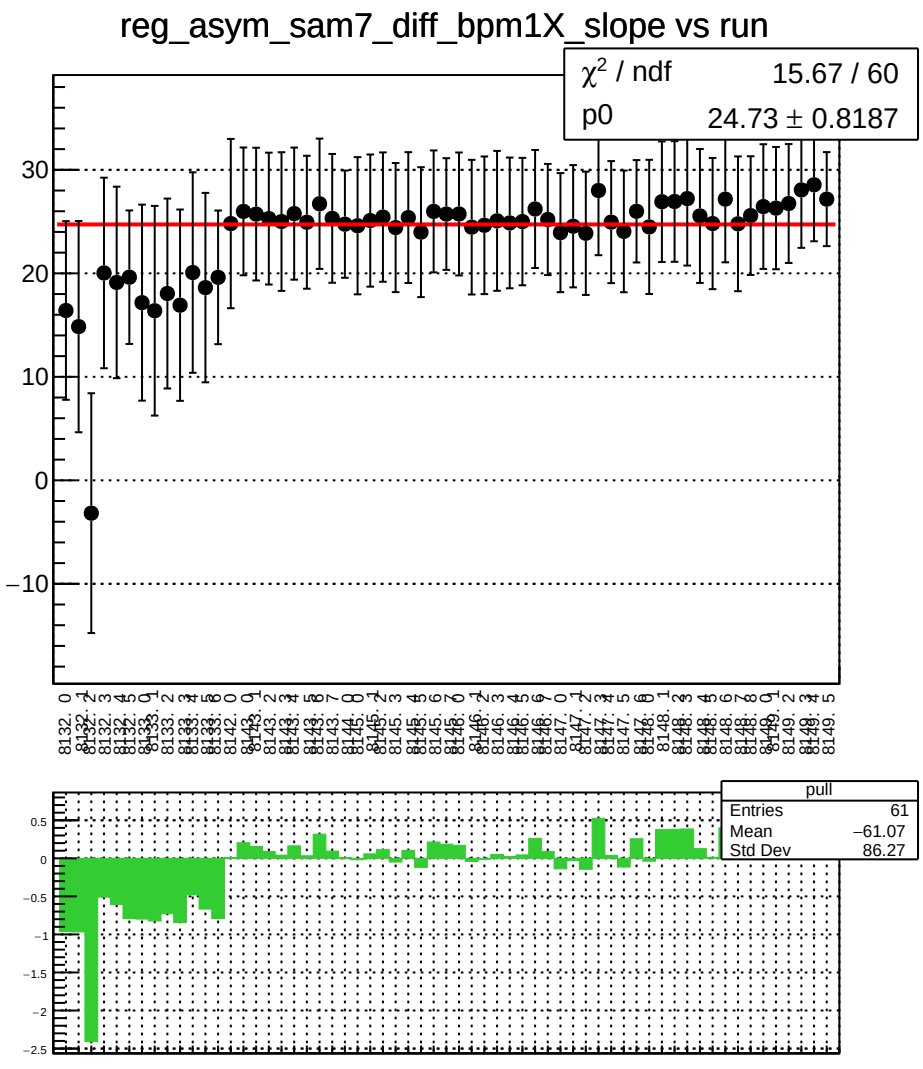

pull1D
Entries 61
Mean 0.0245
Std Dev 0.2881

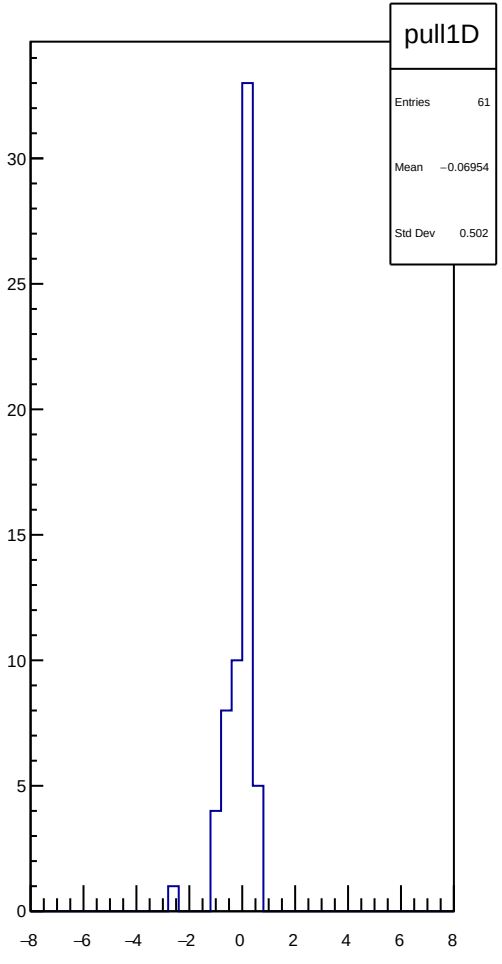

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 32.39 / 60
p0 9.68 ± 3.116
pull
Entries 61
Mean 196.5
Std Dev 184.4

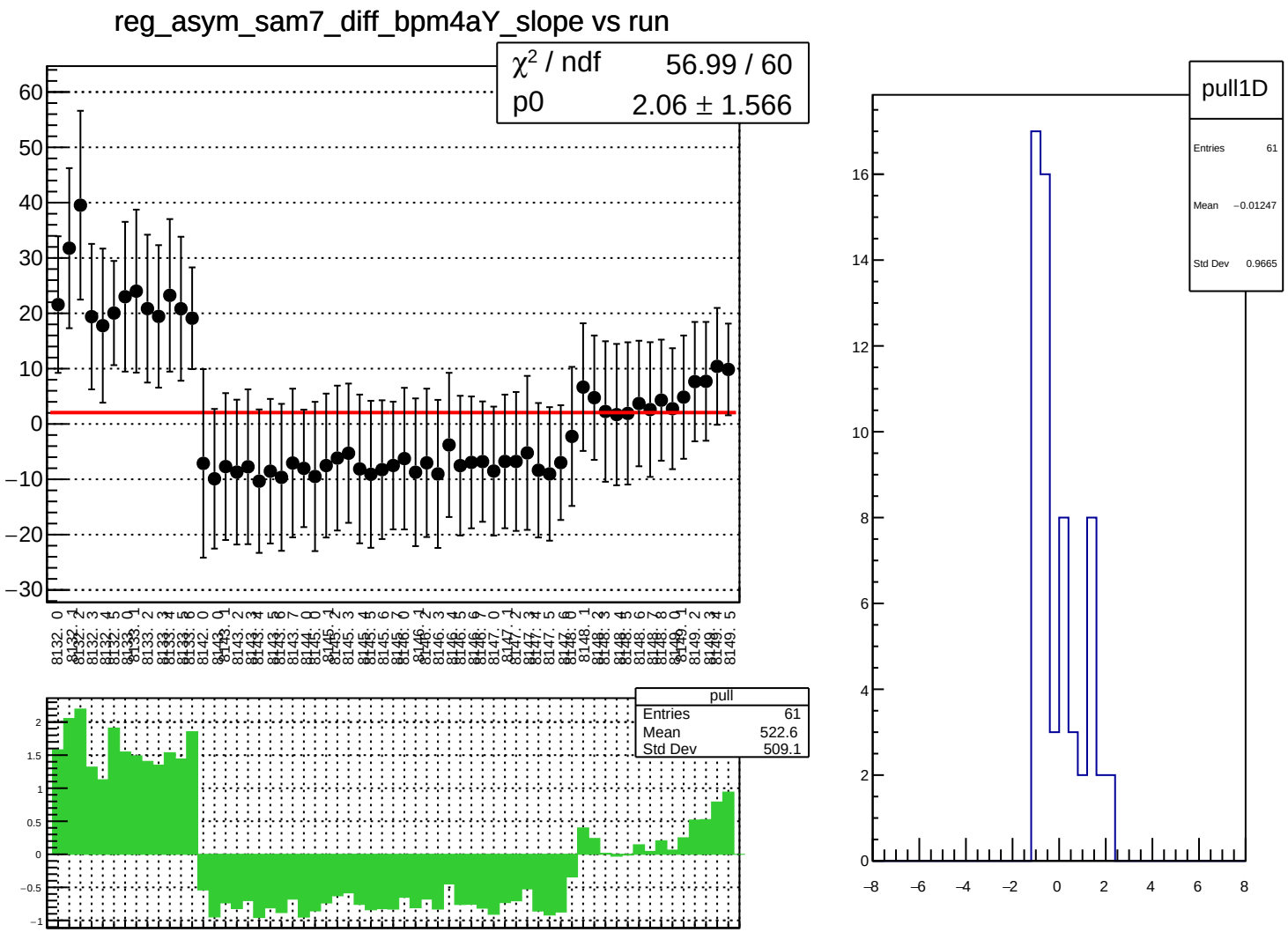

pull1D
Entries 61
Mean 0.02476
Std Dev 0.7283

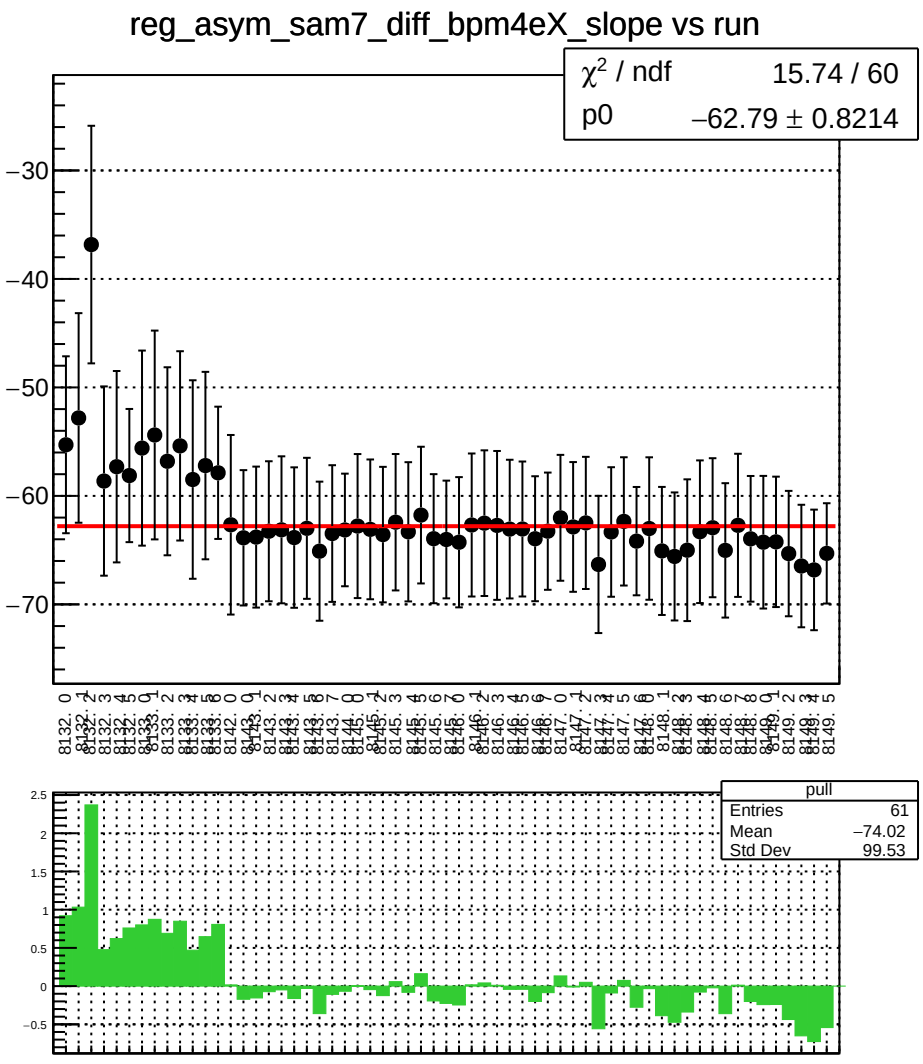

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 34.26 / 60
p0 −0.8144 ± 0.1291
pull
Entries 61
Mean 220.1
Std Dev 197.2

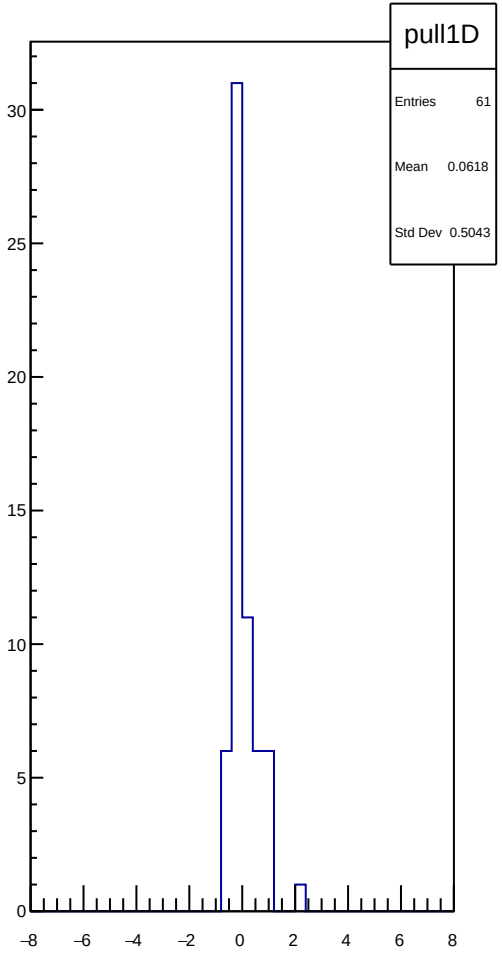

pull1D
Entries 61
Mean 0.04067
Std Dev 0.7484

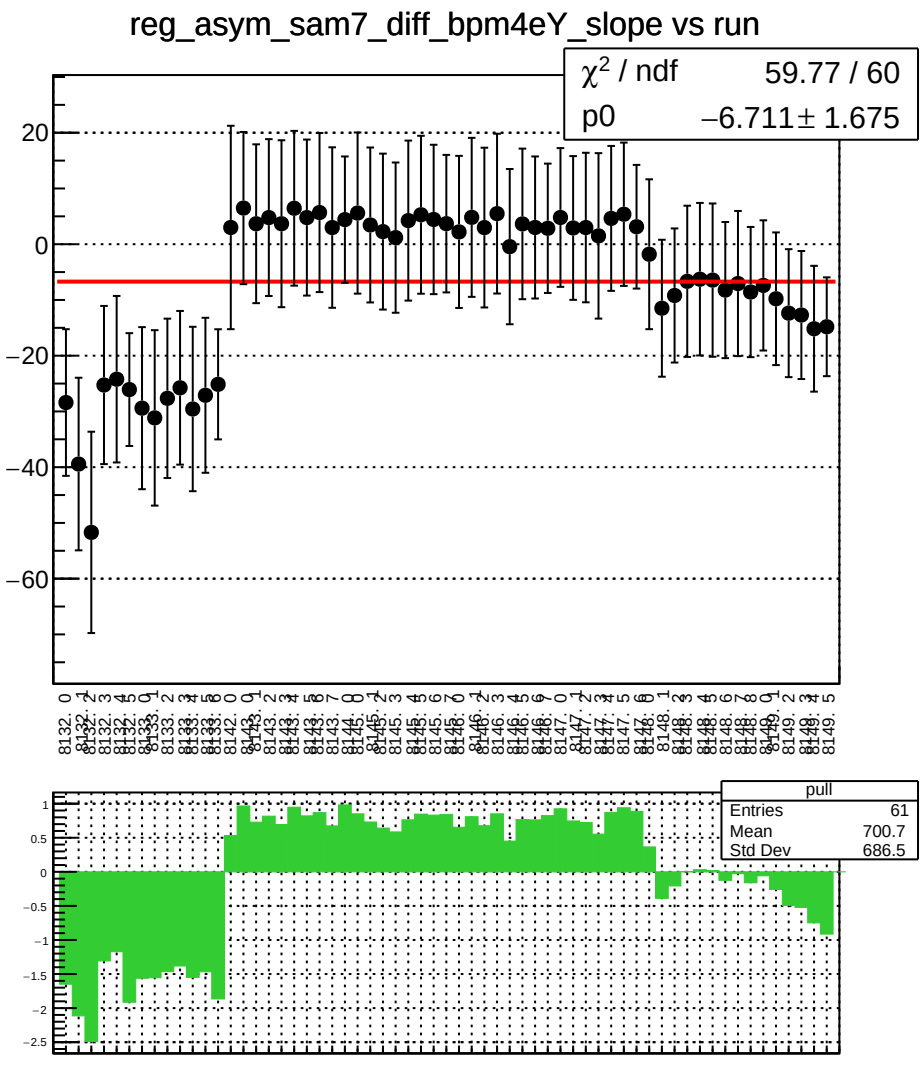

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 15.67 / 60
p0 24.73 ± 0.8187
pull
Entries 61
Mean −61.07
Std Dev 86.27

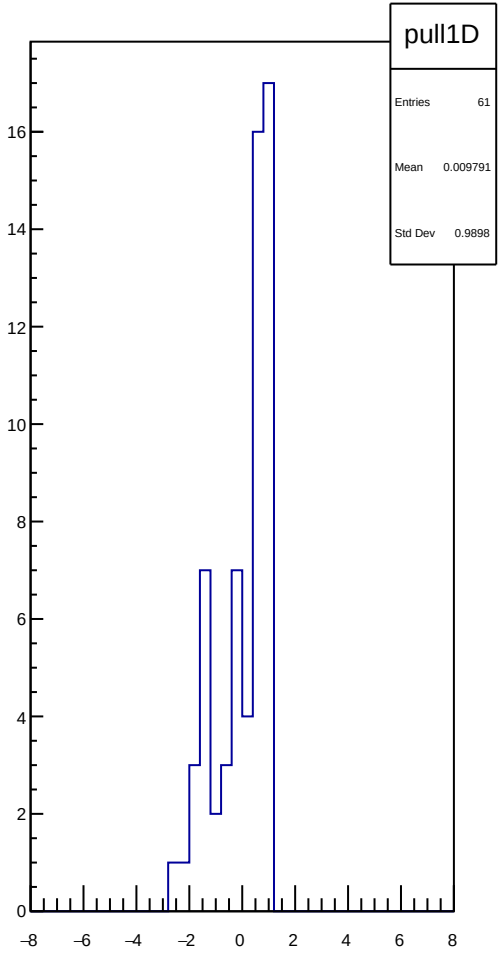

pull1D
Entries 61
Mean −0.06954
Std Dev 0.502

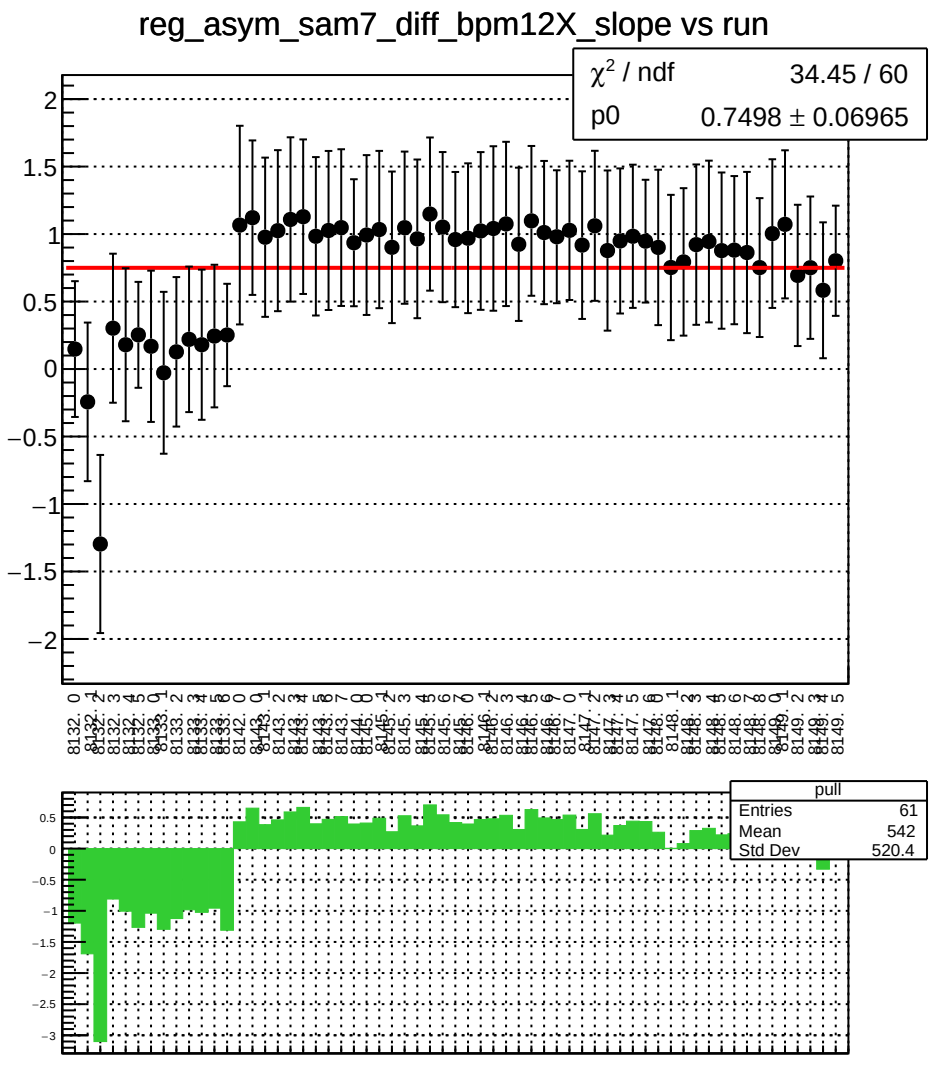

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 56.99 / 60
p0 2.06 ± 1.566
pull
Entries 61
Mean 522.6
Std Dev 509.1
pull1D
Entries 61
Mean −0.01247
Std Dev 0.9665

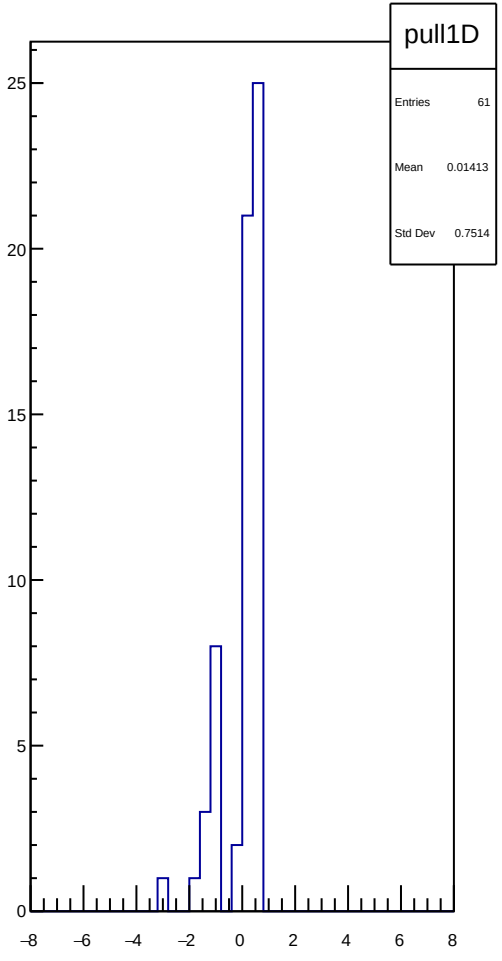

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 15.74 / 60
p0 −62.79 ± 0.8214
pull
Entries 61
Mean −74.02
Std Dev 99.53

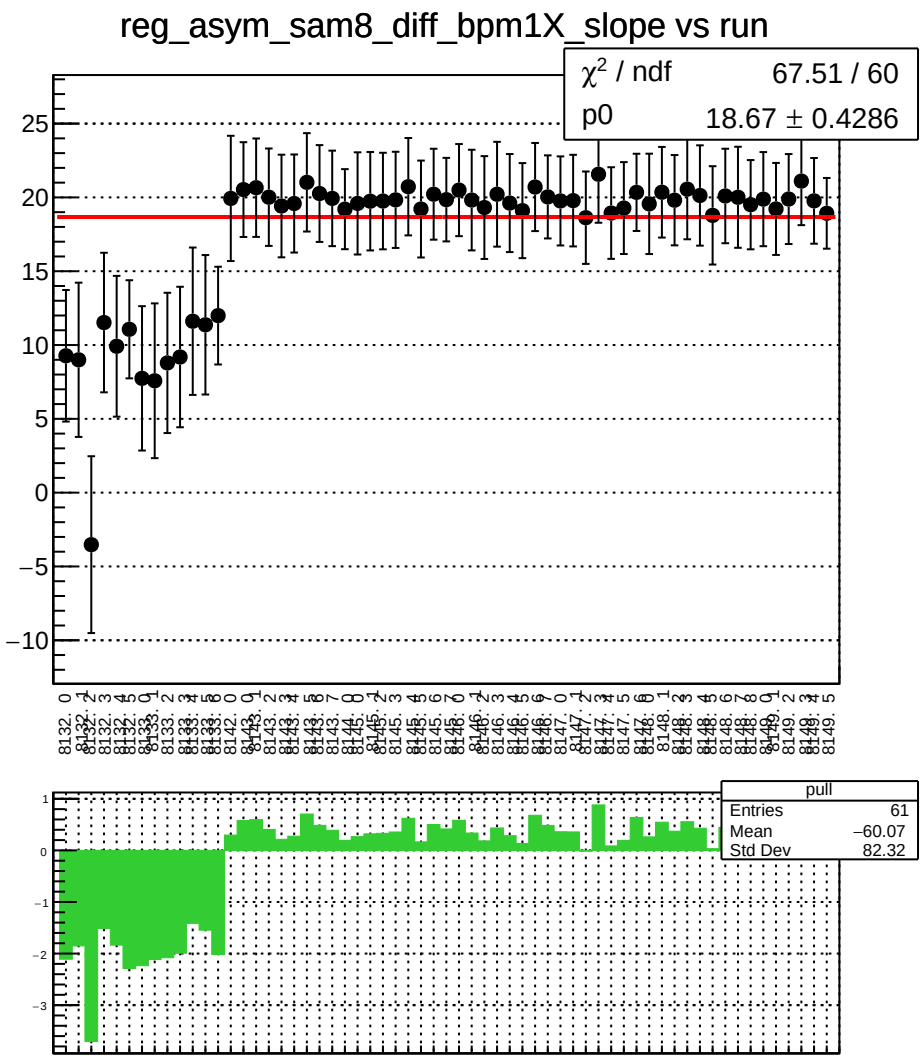

pull1D
Entries 61
Mean 0.0618
Std Dev 0.5043

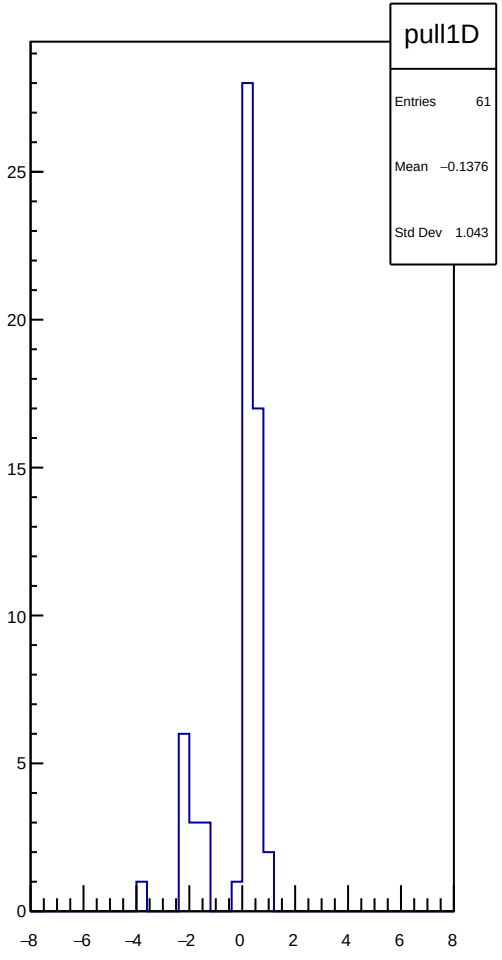

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 59.77 / 60
p0 −6.711± 1.675
pull
Entries 61
Mean 700.7
Std Dev 686.5

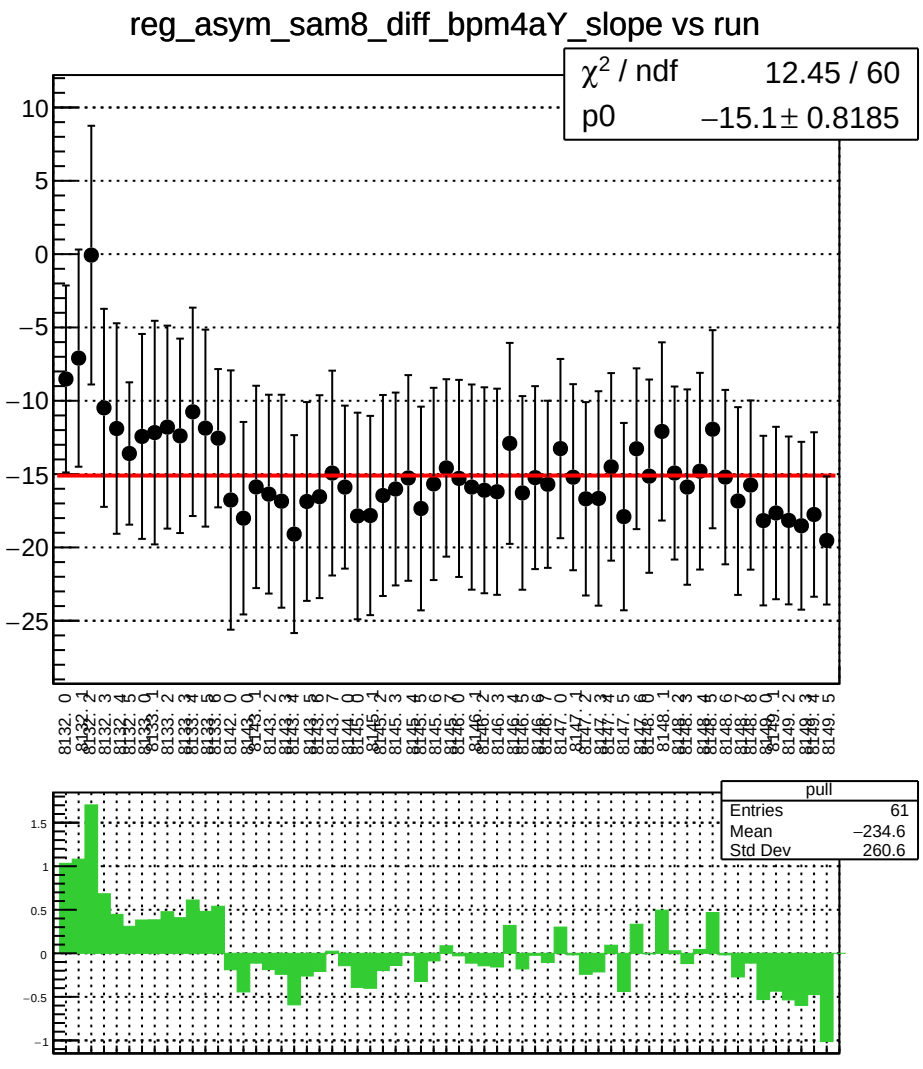

pull1D
Entries 61
Mean 0.009791
Std Dev 0.9898

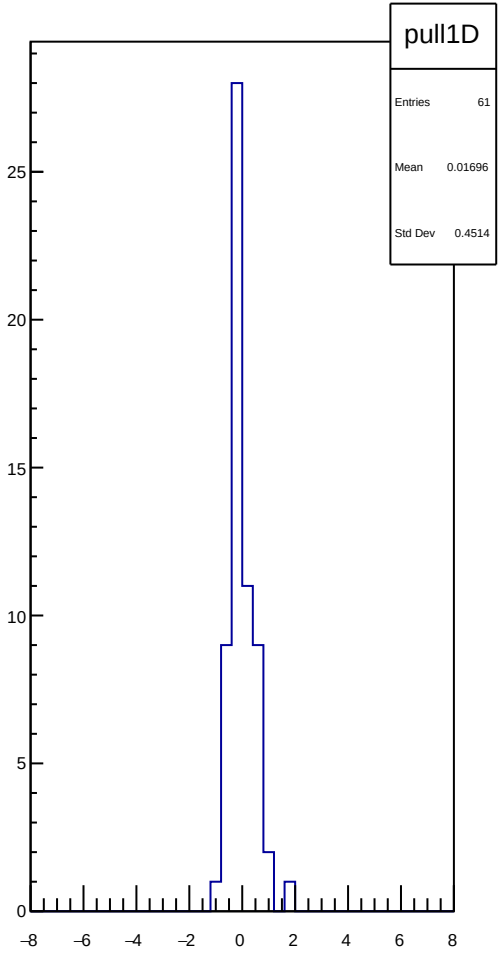

reg_asym_sam7_diff_bpm12X_slope vs run
χ^2 / ndf 34.45 / 60
p0 0.7498 ± 0.06965
pull
Entries 61
Mean 542
Std Dev 520.4

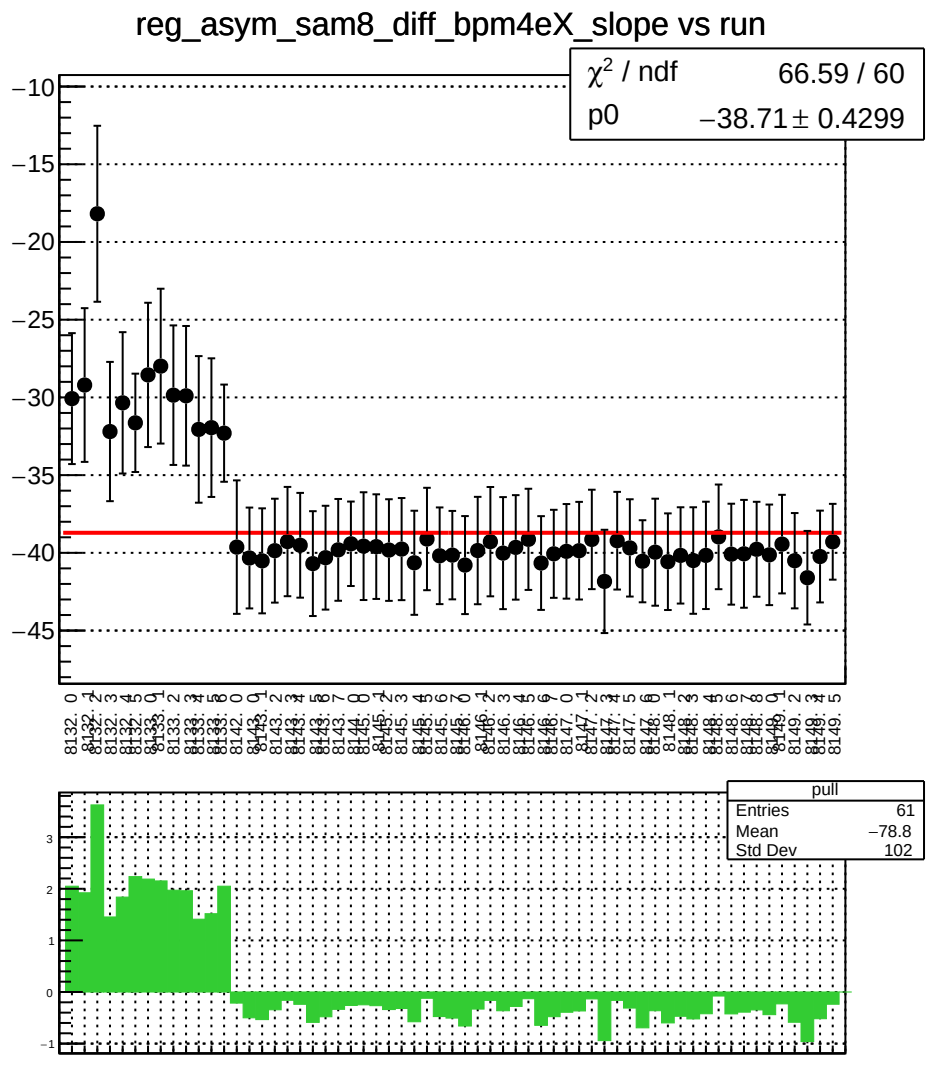

pull1D
Entries 61
Mean 0.01413
Std Dev 0.7514

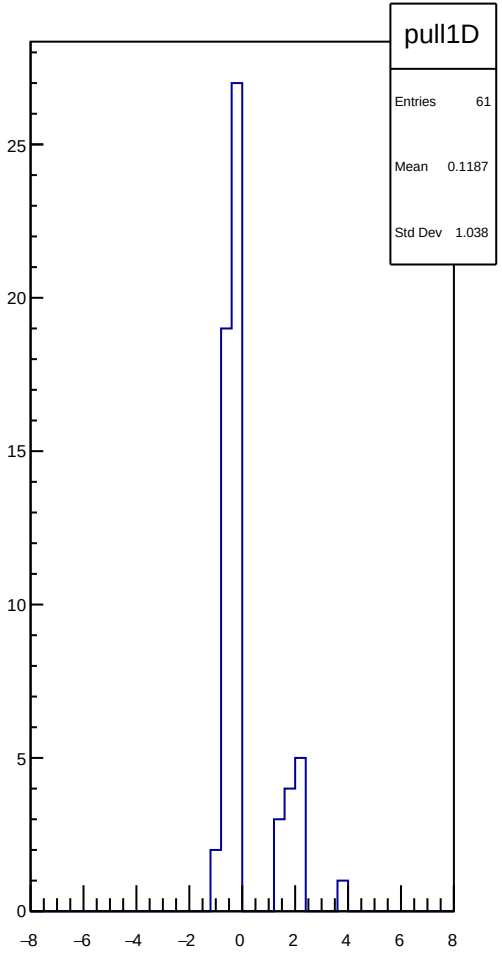

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 67.51 / 60
p0 18.67 ± 0.4286
pull
Entries 61
Mean −60.07
Std Dev 82.32

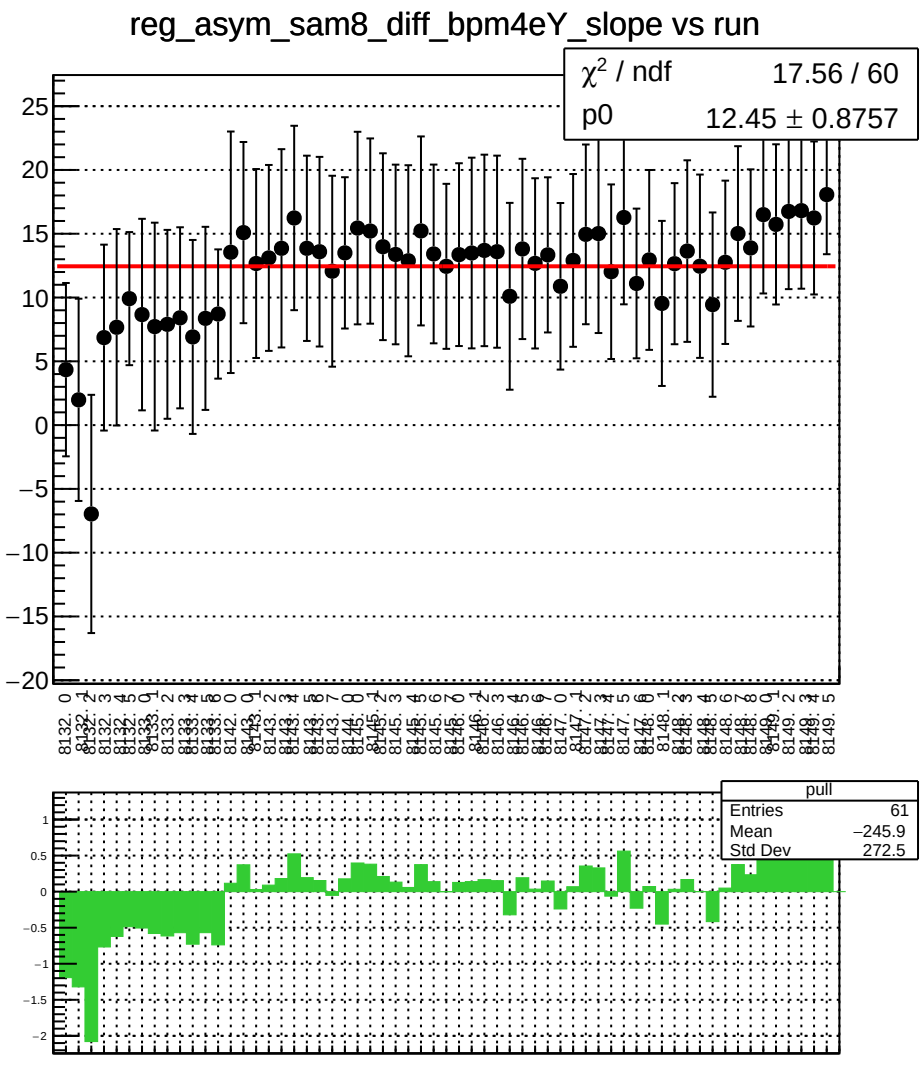

pull1D
Entries 61
Mean −0.1376
Std Dev 1.043

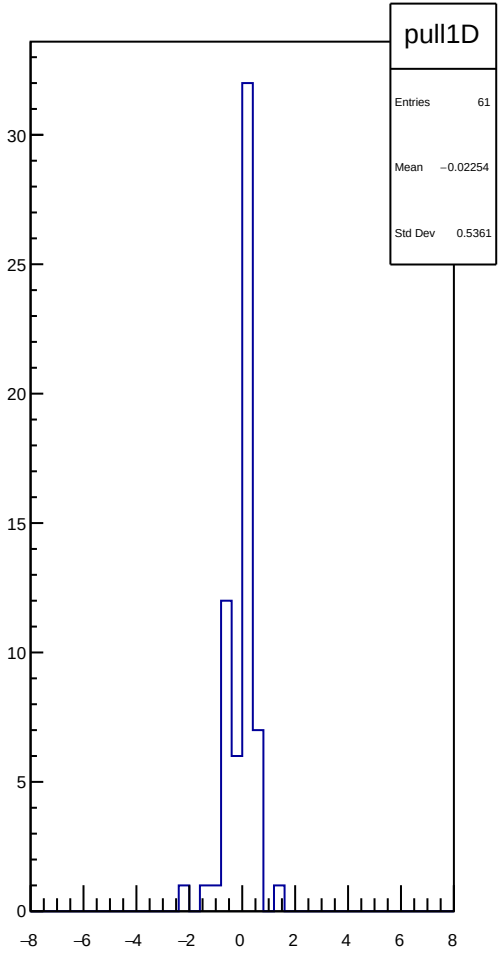

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 12.45 / 60
p0 −15.1 ± 0.8185
pull
Entries 61
Mean −234.6
Std Dev 260.6

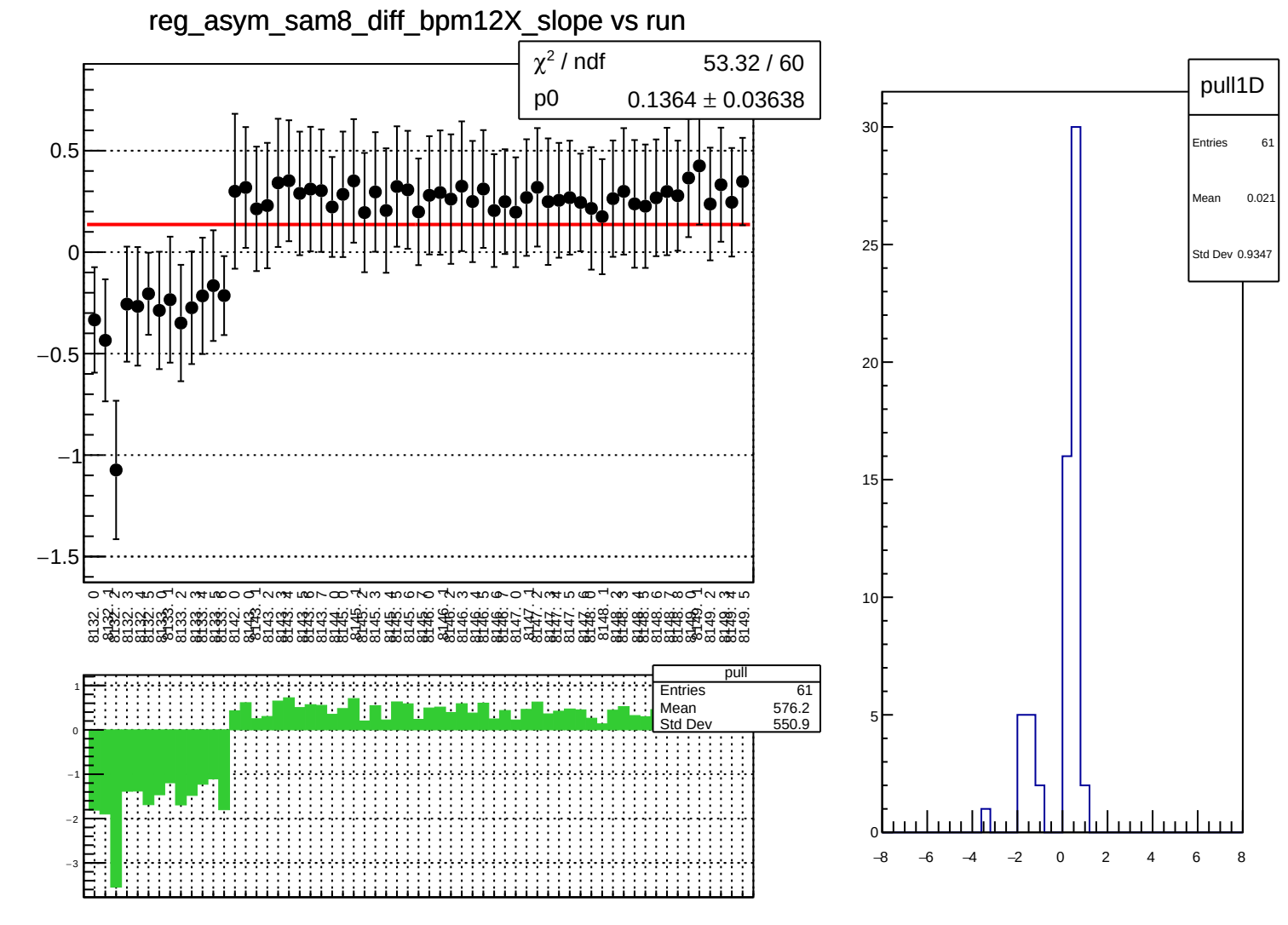

pull1D
Entries 61
Mean 0.01696
Std Dev 0.4514

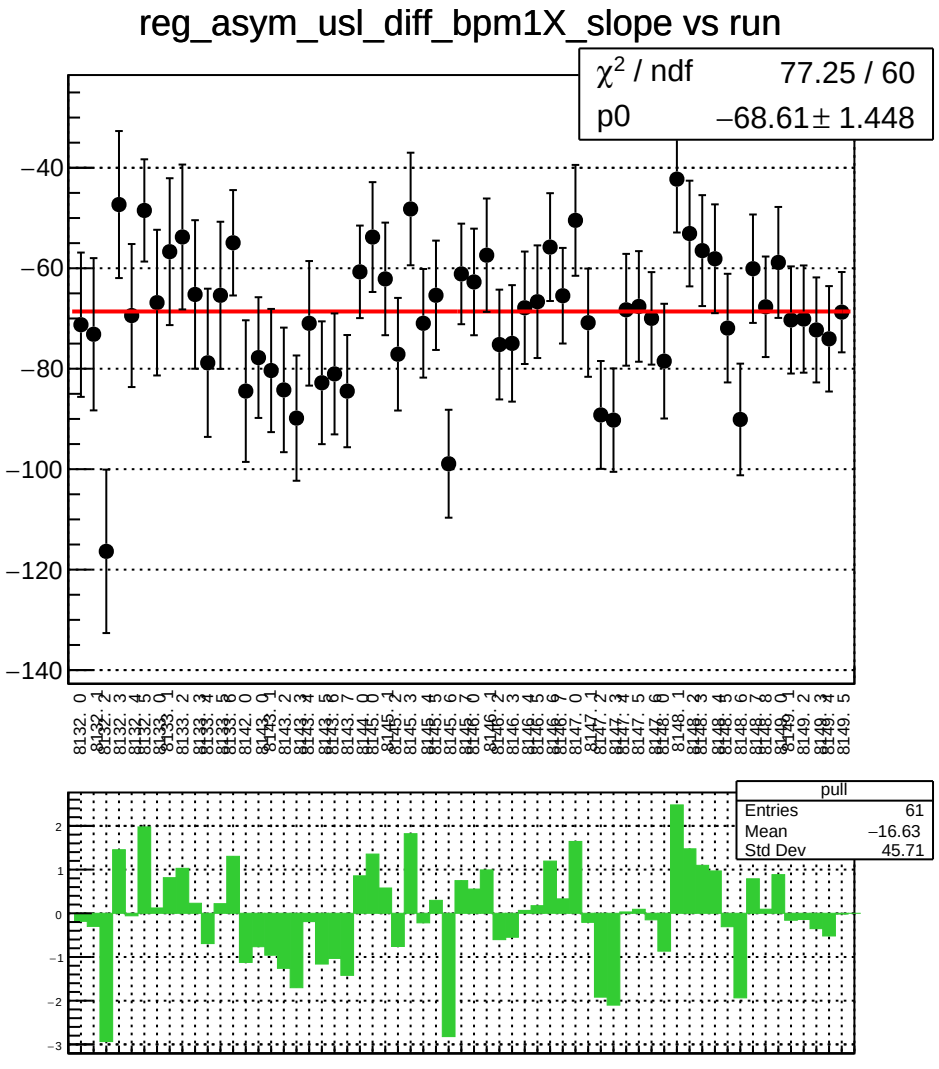

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 66.59 / 60
p0 −38.71 ± 0.4299
pull
Entries 61
Mean −78.8
Std Dev 102

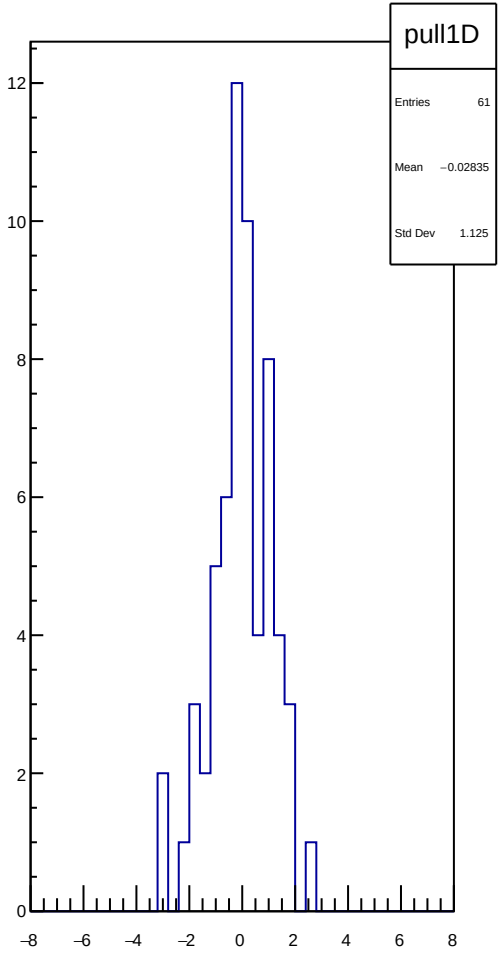

pull1D
Entries 61
Mean 0.1187
Std Dev 1.038

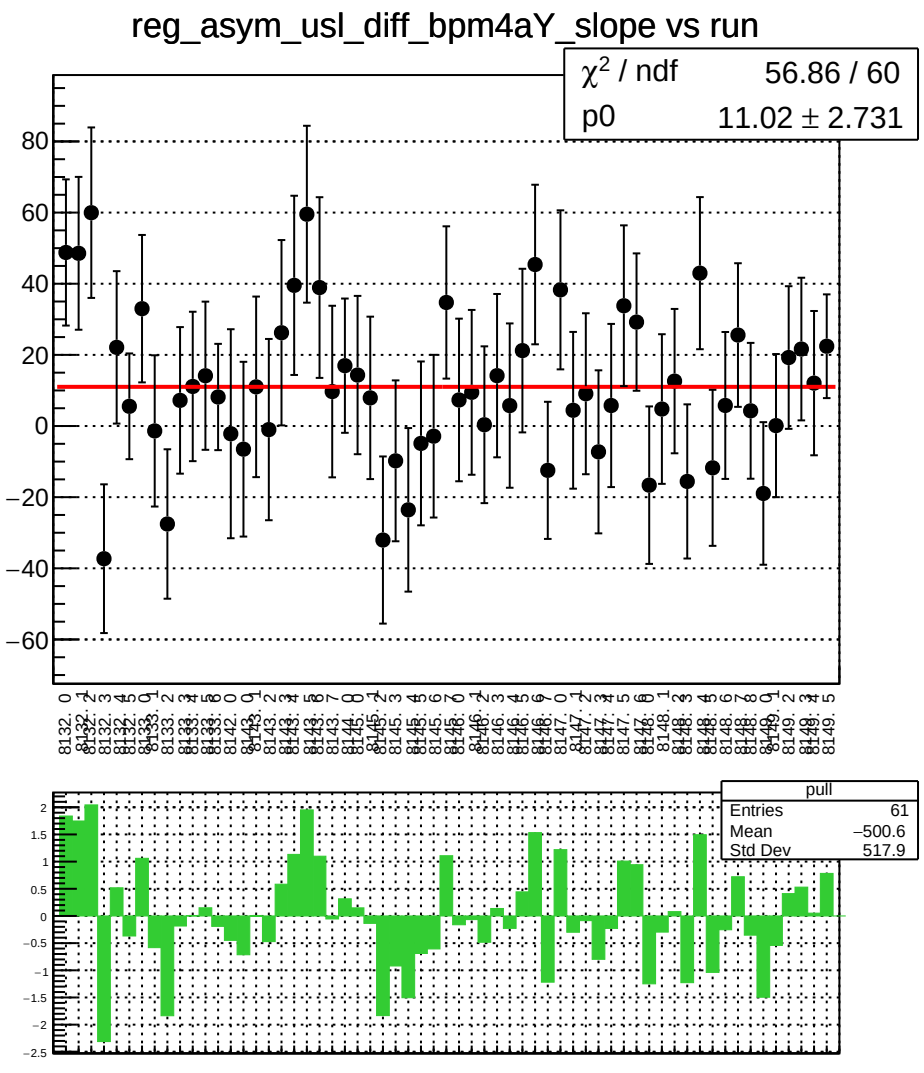

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 17.56 / 60
p0 12.45 ± 0.8757
pull
Entries 61
Mean −245.9
Std Dev 272.5

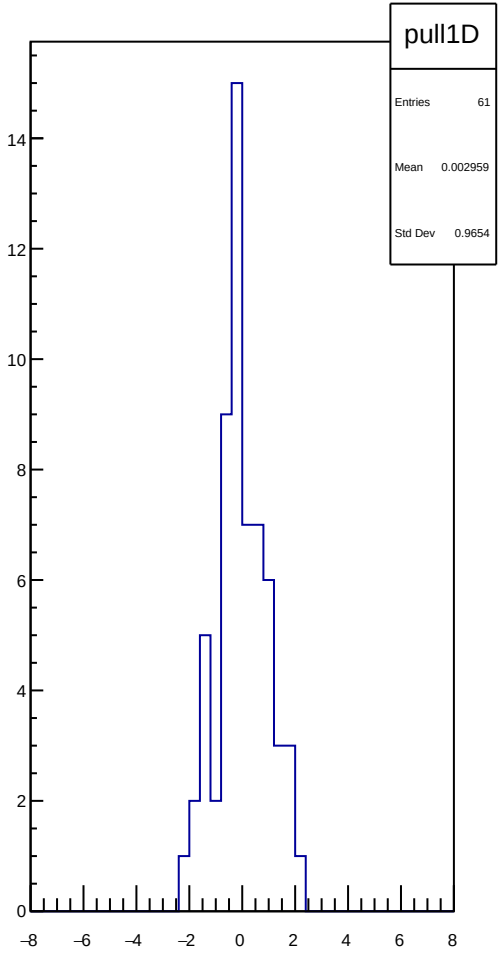

pull1D
Entries 61
Mean −0.02254
Std Dev 0.5361

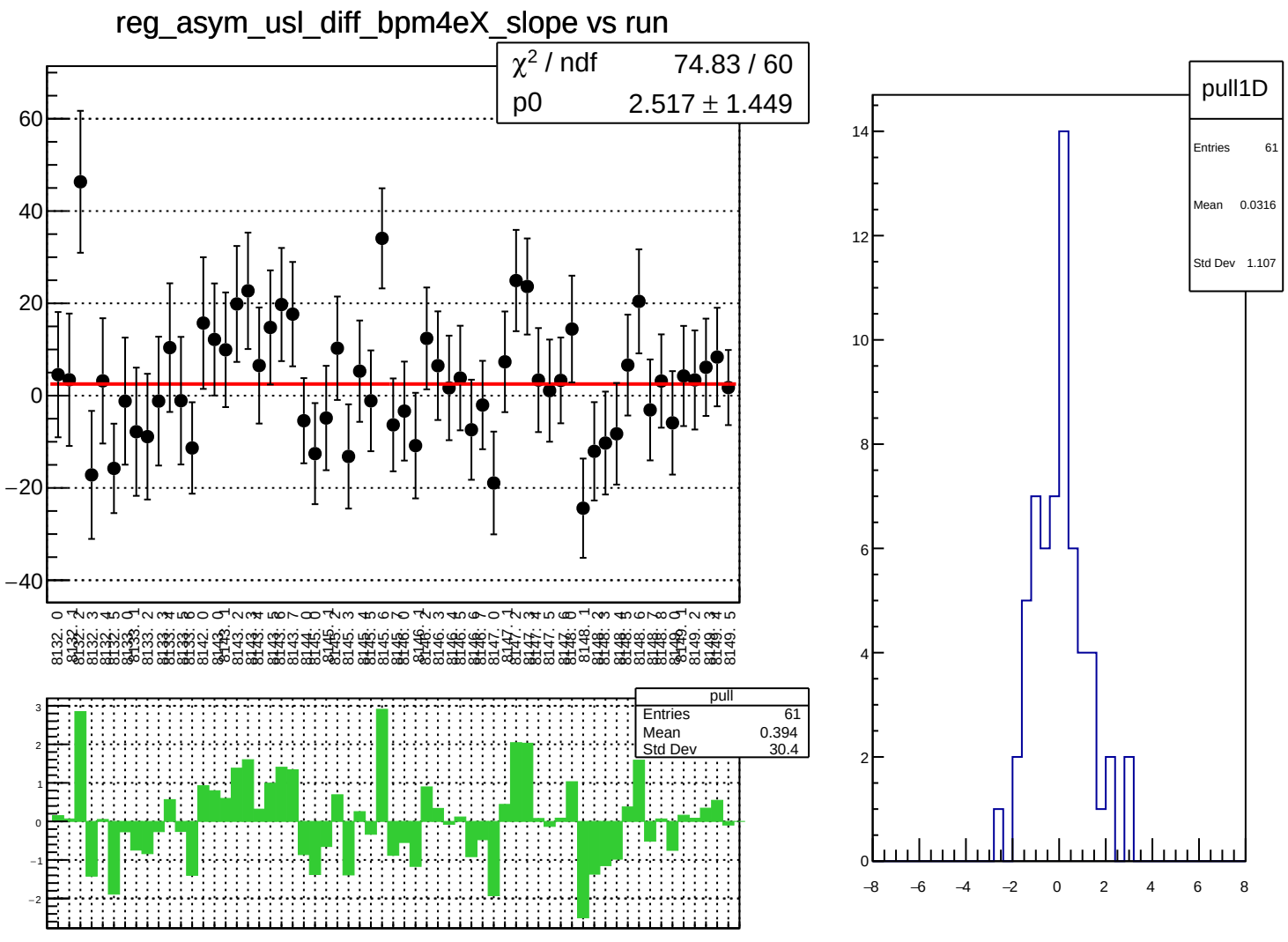

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 53.32 / 60
p0 0.1364 ± 0.03638
pull
Entries 61
Mean 576.2
Std Dev 550.9
pull1D
Entries 61
Mean 0.021
Std Dev 0.9347

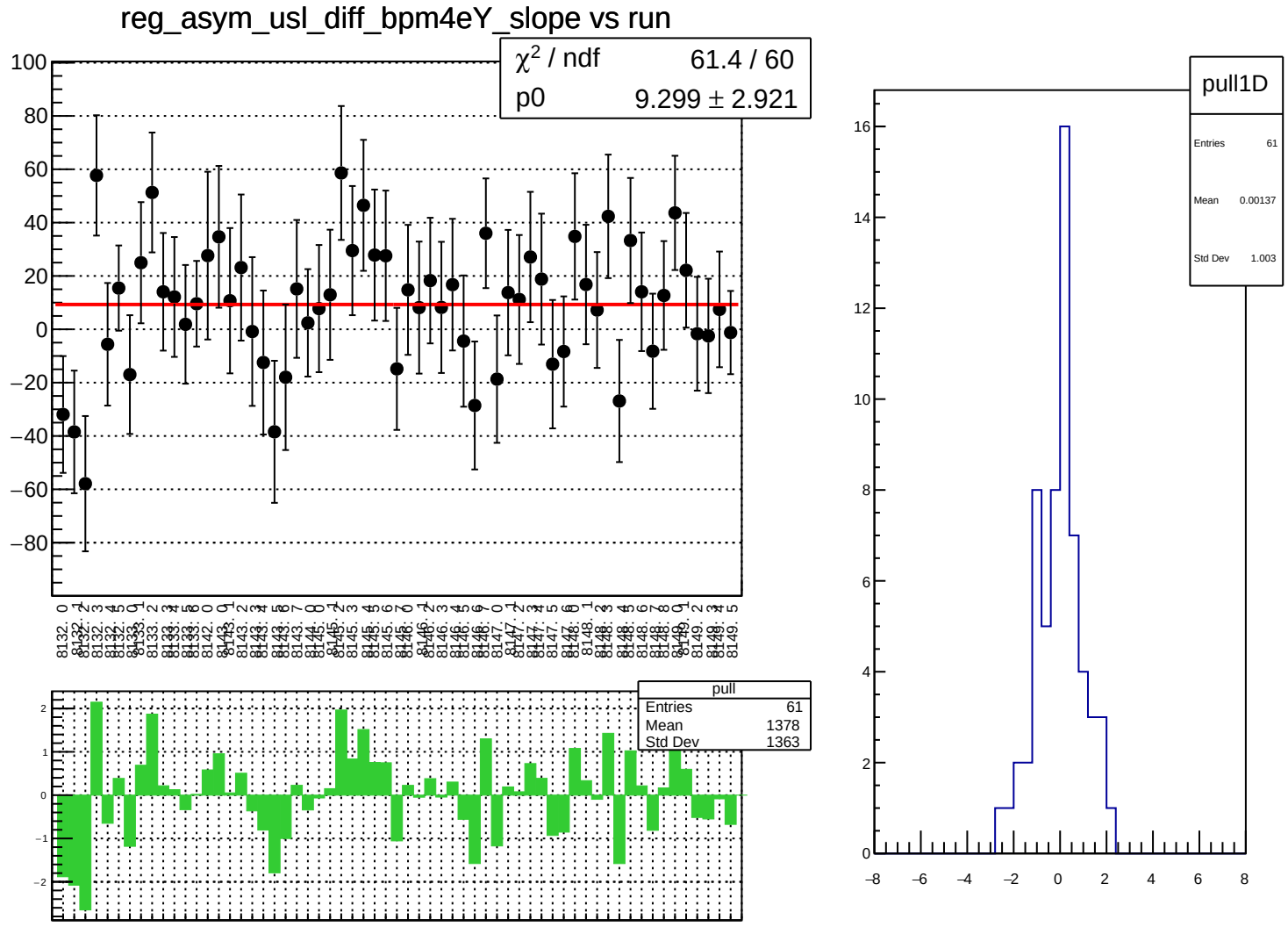

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 77.25 / 60
p0 −68.61 ± 1.448
pull
Entries 61
Mean −16.63
Std Dev 45.71

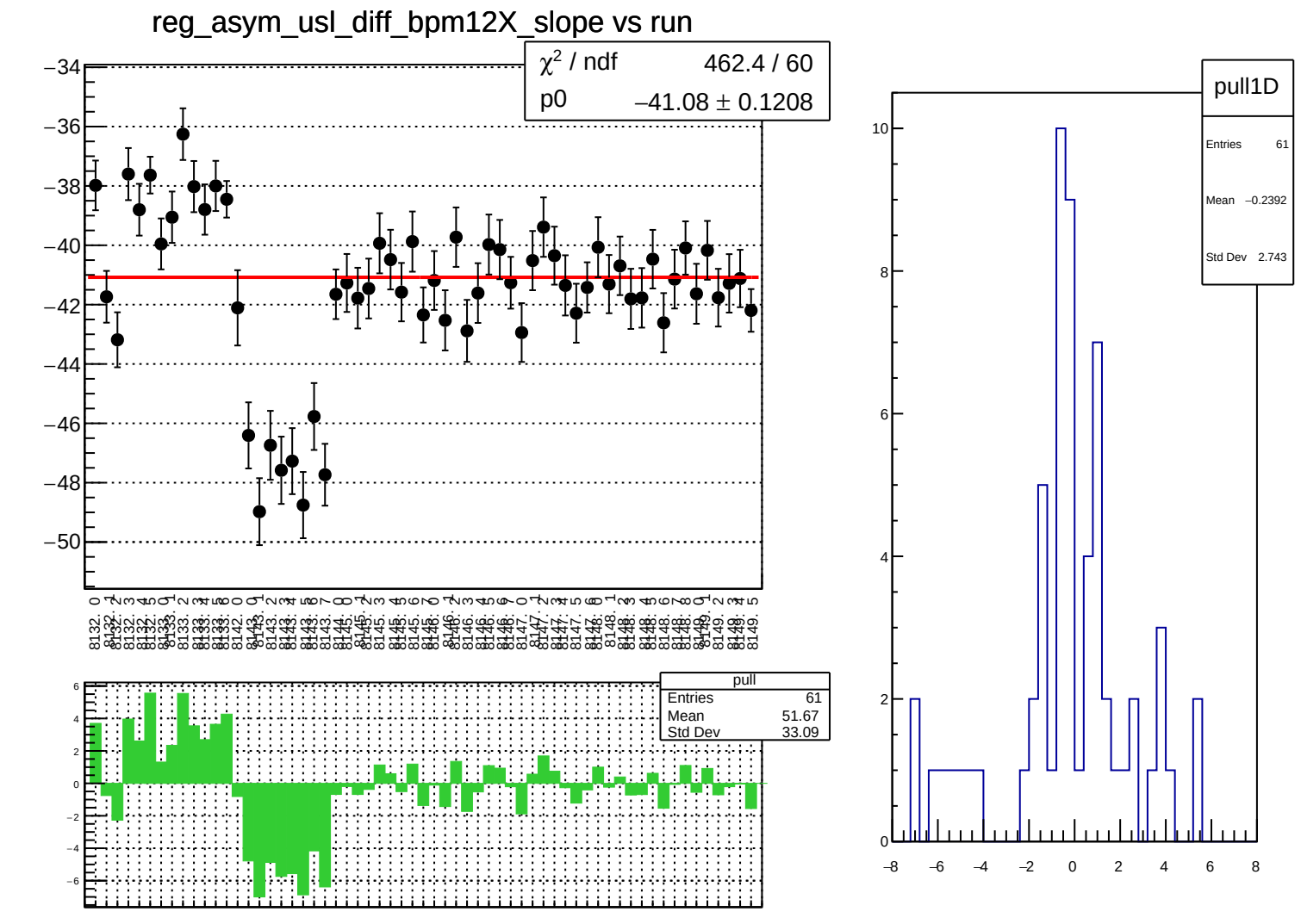

pull1D
Entries 61
Mean −0.02835
Std Dev 1.125

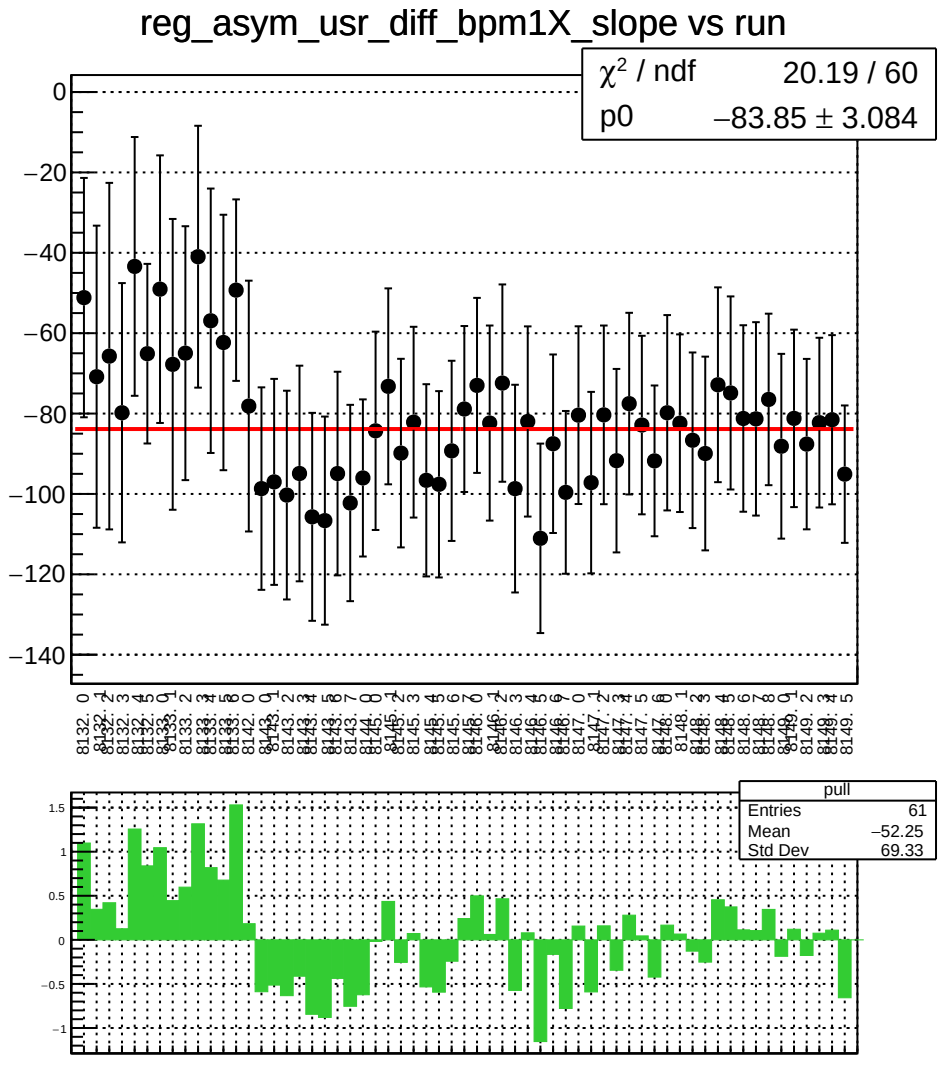

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 56.86 / 60
p0 11.02 ± 2.731
pull
Entries 61
Mean −500.6
Std Dev 517.9

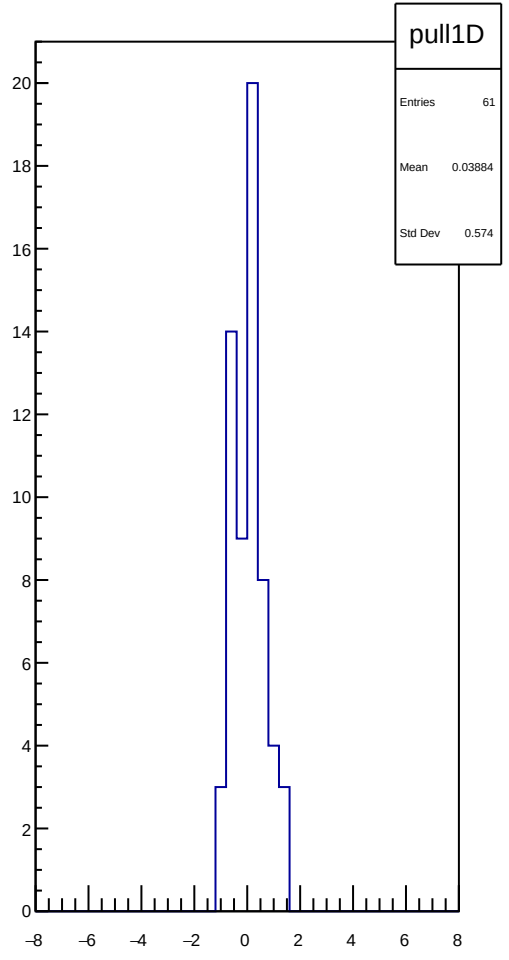

pull1D
Entries 61
Mean 0.002959
Std Dev 0.9654

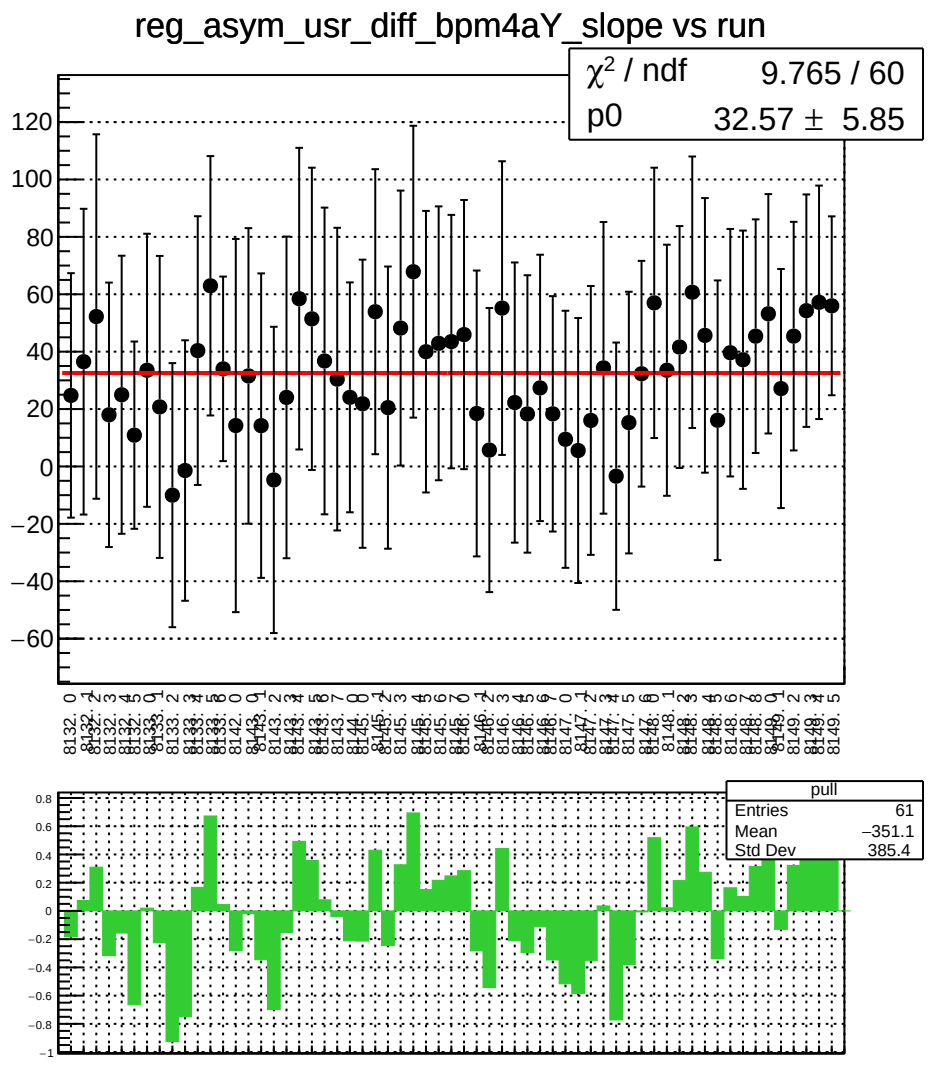

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 74.83 / 60
p0 2.517 ± 1.449
pull
Entries 61
Mean 0.394
Std Dev 30.4
pull1D
Entries 61
Mean 0.0316
Std Dev 1.107

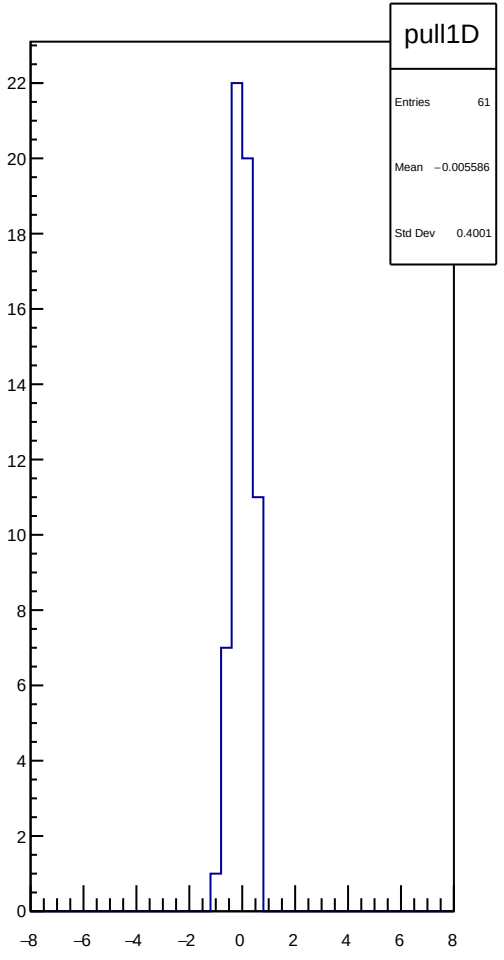

reg_asym_usl_diff_bpm4eY_slope vs run
χ^2 / ndf 61.4 / 60
p0 9.299 ± 2.921
pull
Entries 61
Mean 1378
Std Dev 1363
pull1D
Entries 61
Mean 0.00137
Std Dev 1.003

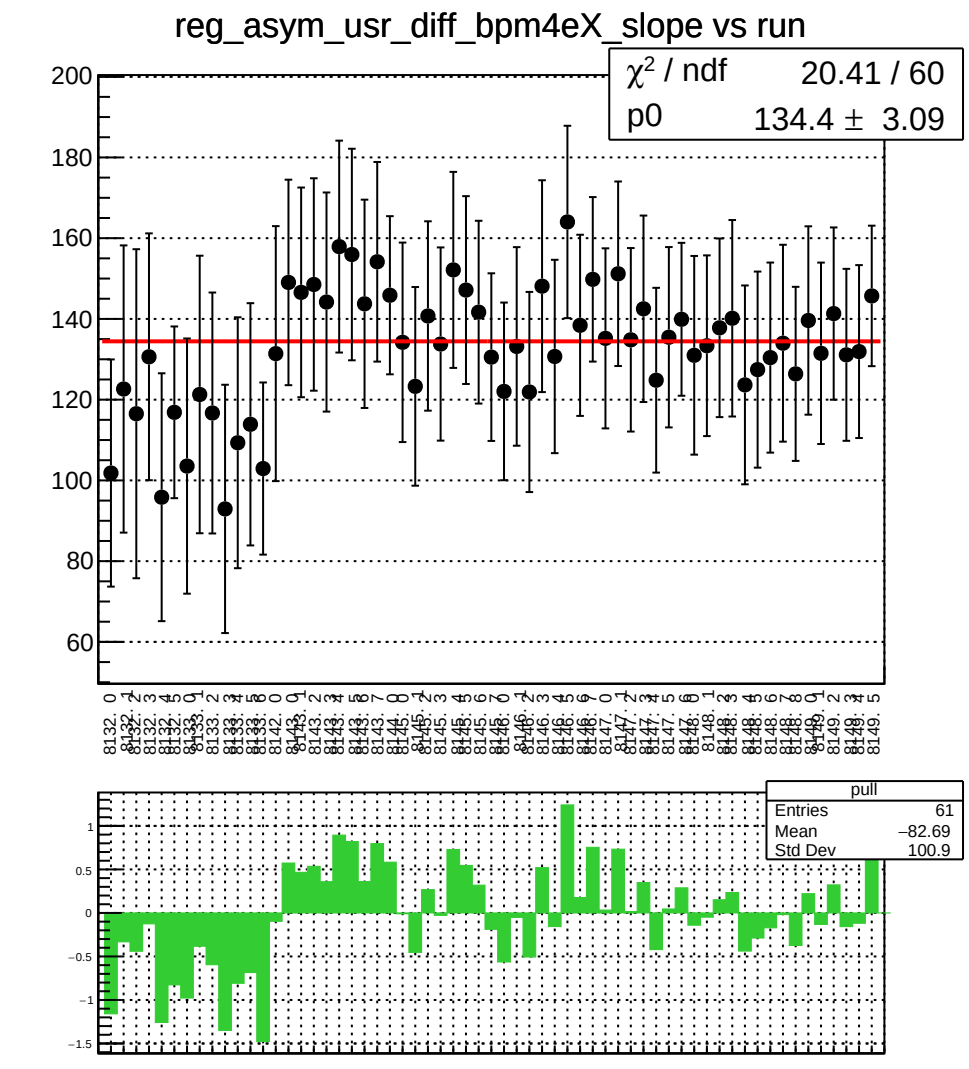

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 462.4 / 60
p0 −41.08 ± 0.1208
pull
Entries 61
Mean 51.67
Std Dev 33.09
pull1D
Entries 61
Mean −0.2392
Std Dev 2.743

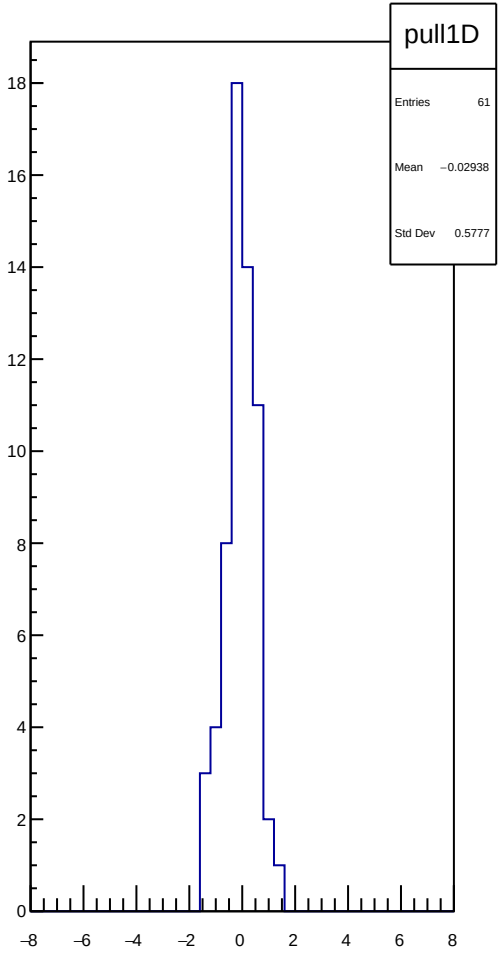

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 20.19 / 60
p0 −83.85 ± 3.084
pull
Entries 61
Mean −52.25
Std Dev 69.33

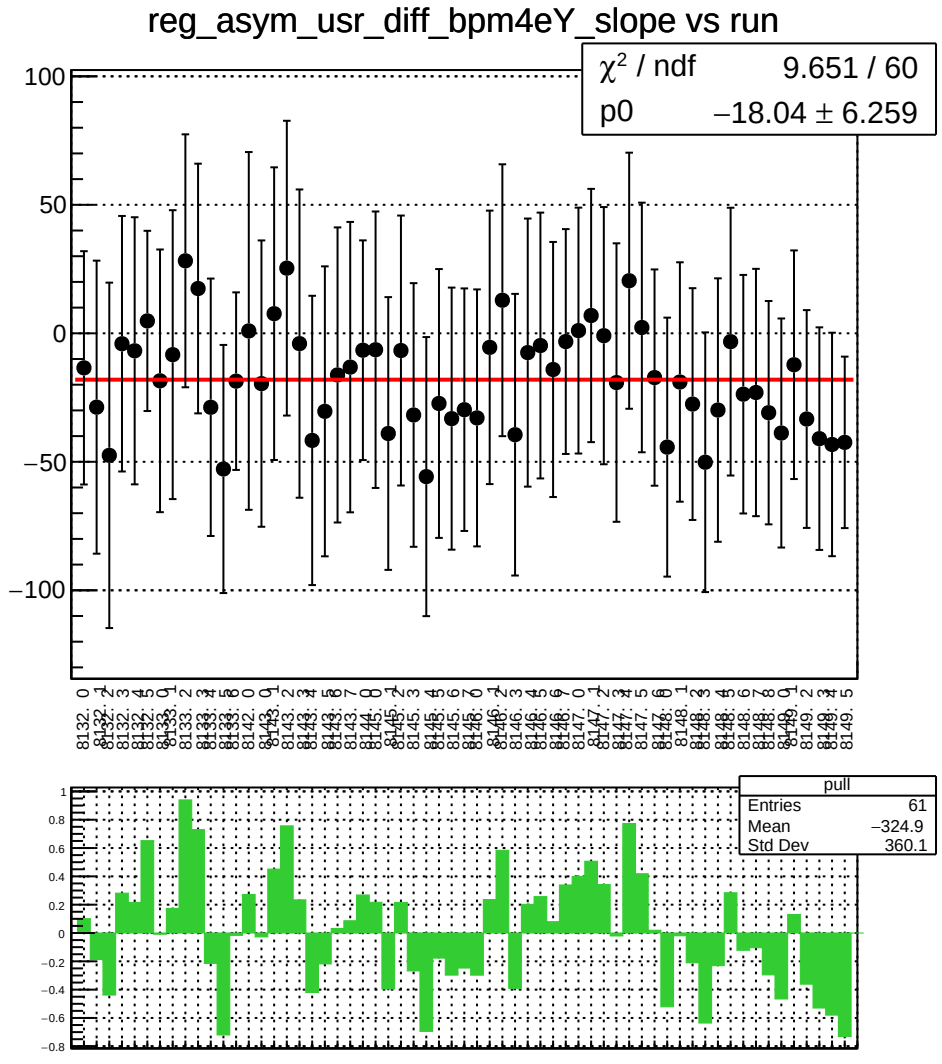

pull1D
Entries 61
Mean 0.03884
Std Dev 0.574

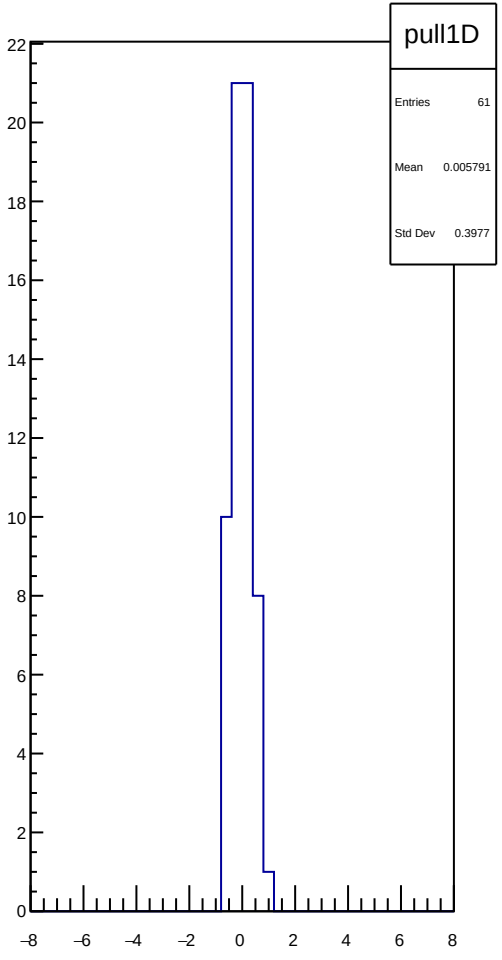

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 9.765 / 60
p0 32.57 ± 5.85
pull
Entries 61
Mean −351.1
Std Dev 385.4

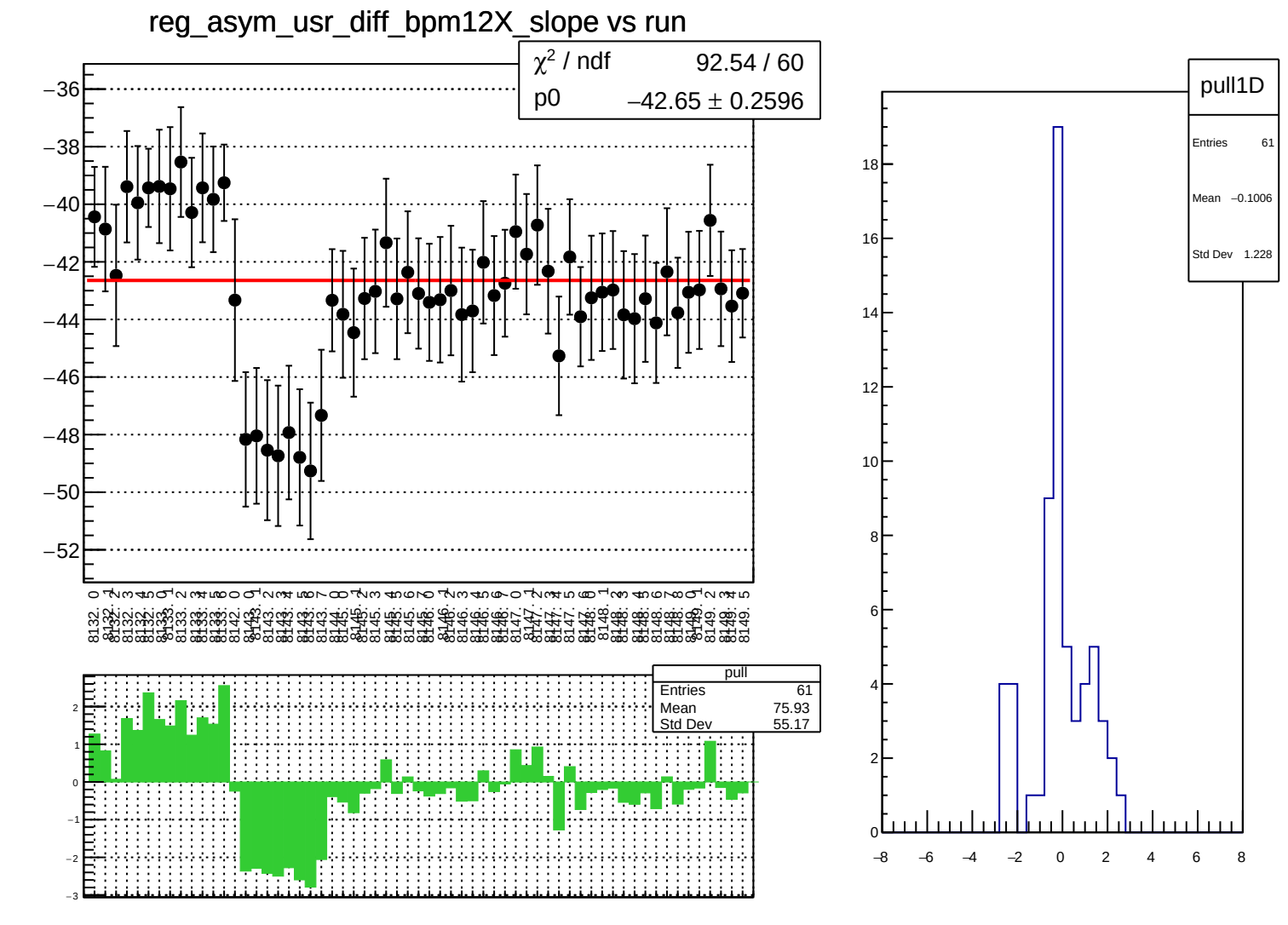

pull1D
Entries 61
Mean −0.005586
Std Dev 0.4001

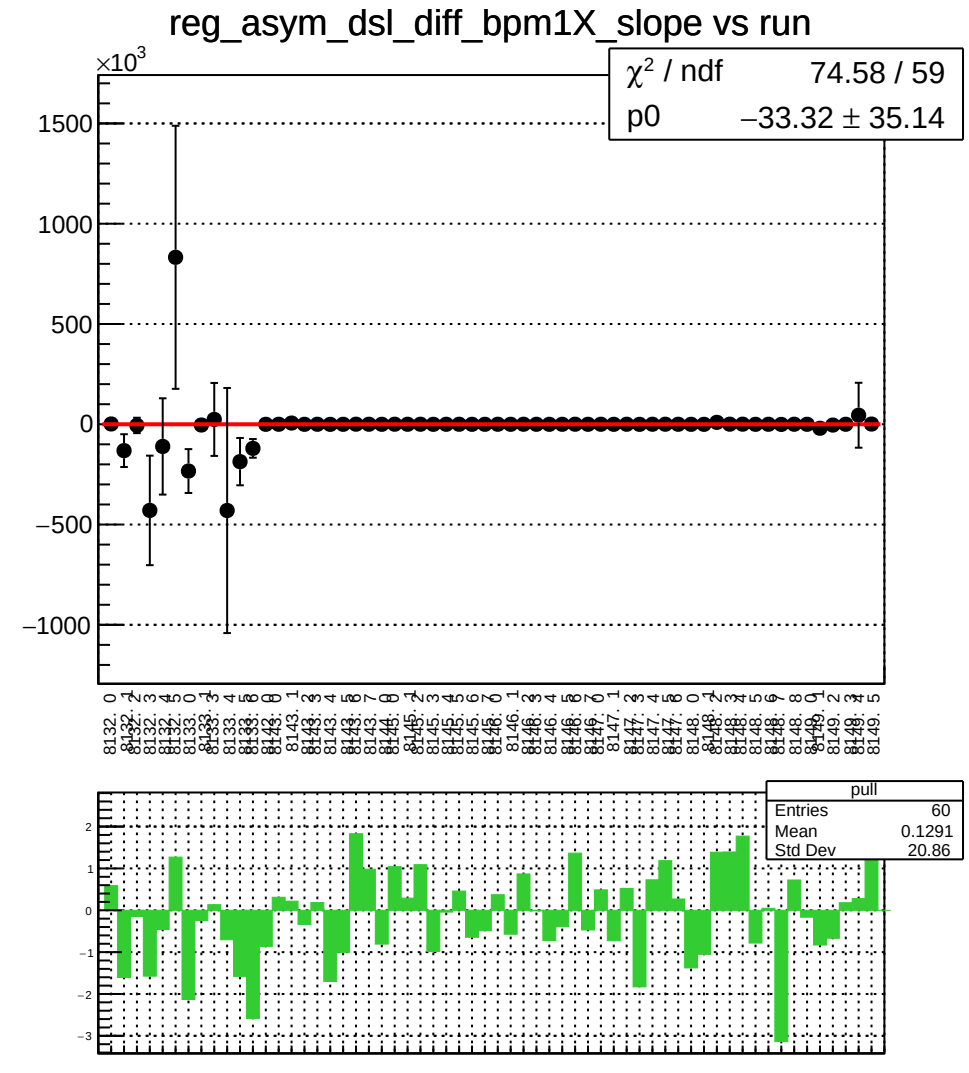

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 20.41 / 60
p0 134.4 ± 3.09
pull
Entries 61
Mean −82.69
Std Dev 100.9

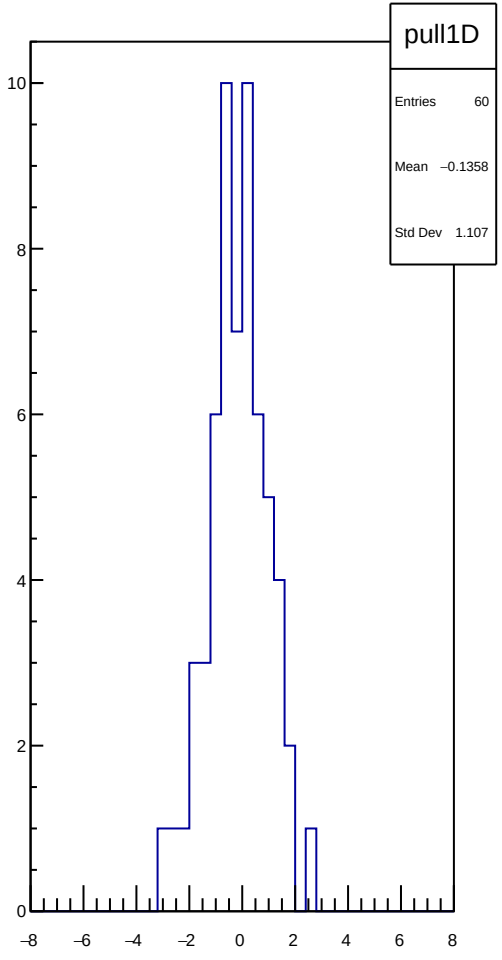

pull1D
Entries 61
Mean −0.02938
Std Dev 0.5777

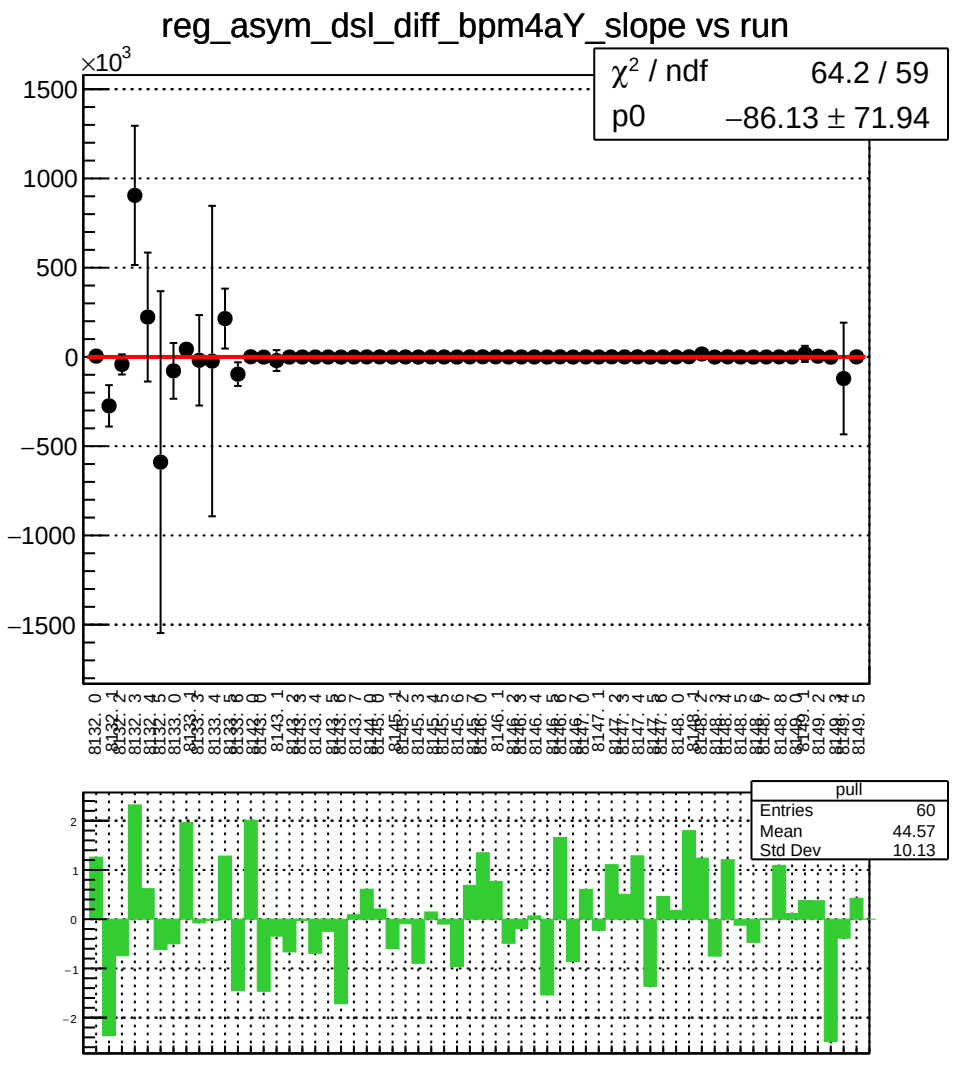

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 9.651 / 60
p0 −18.04 ± 6.259
pull
Entries 61
Mean −324.9
Std Dev 360.1

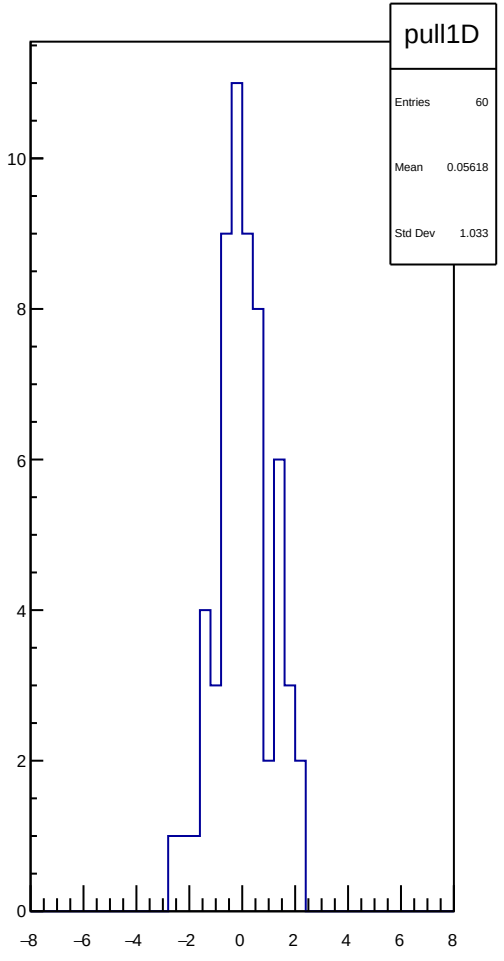

pull1D
Entries 61
Mean 0.005791
Std Dev 0.3977

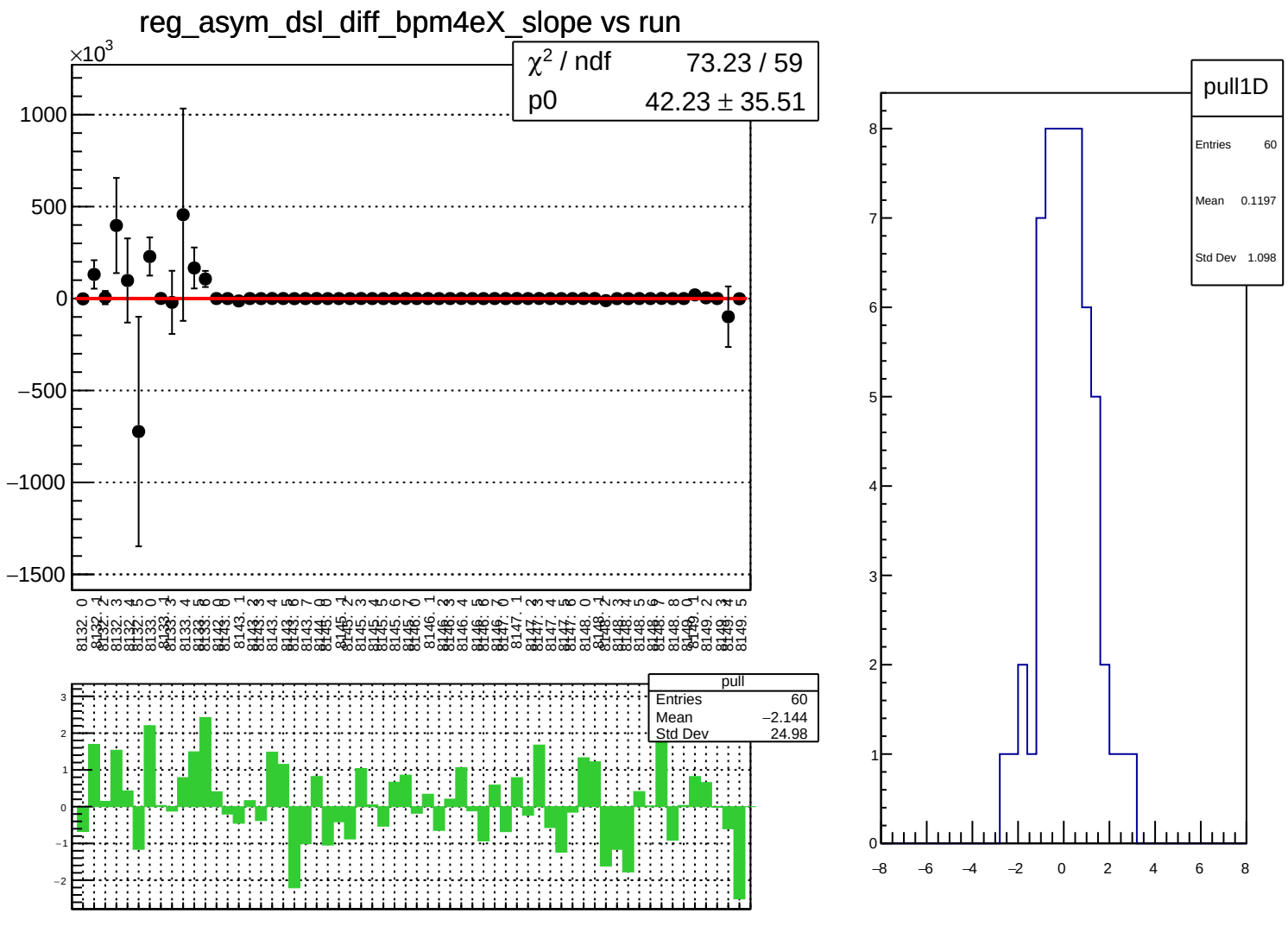

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 92.54 / 60
p0 −42.65 ± 0.2596
pull
Entries 61
Mean 75.93
Std Dev 55.17
pull1D
Entries 61
Mean −0.1006
Std Dev 1.228

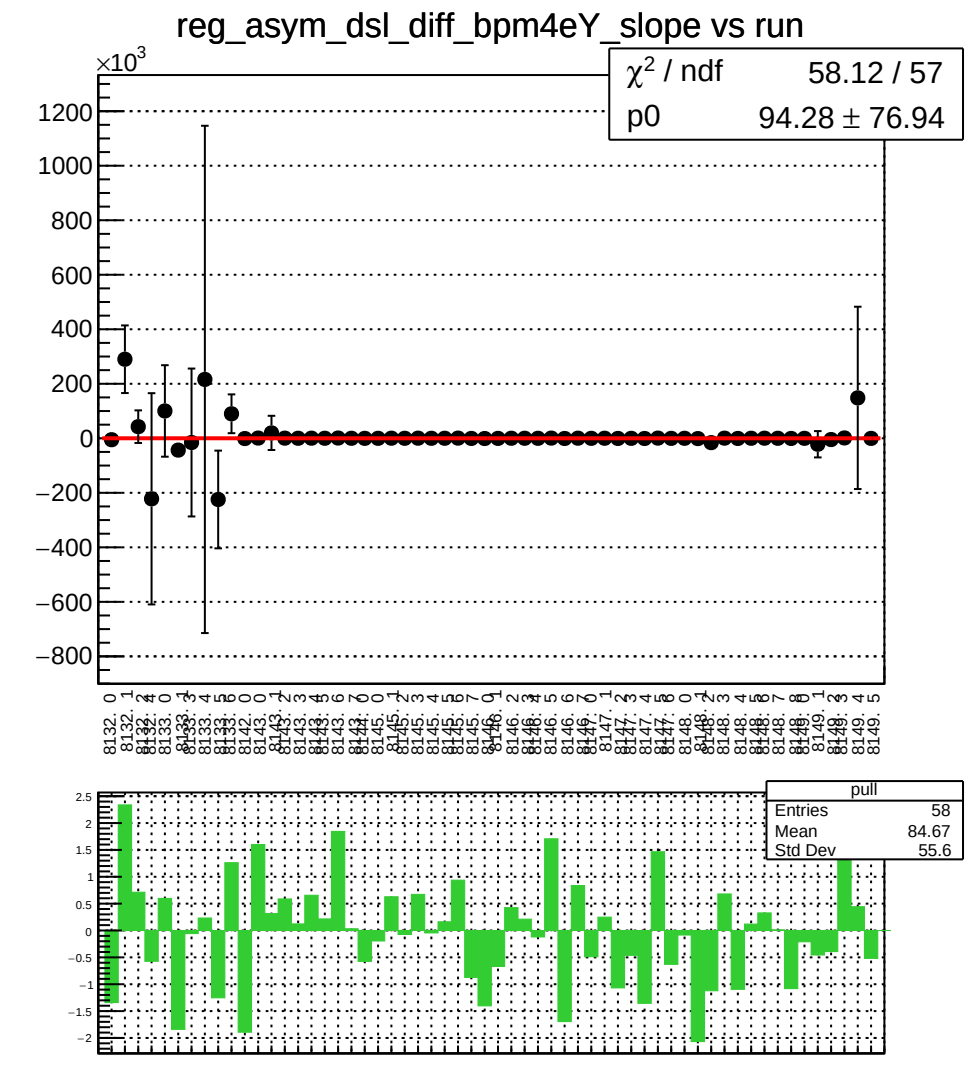

reg_asym_dsl_diff_bpm1X_slope vs run
×10^3
χ² / ndf 74.58 / 59
p0 −33.32 ± 35.14
1500
1000
500
0
−500
−1000
pull
Entries 60
Mean 0.1291
Std Dev 20.86
2
1
0
−1
−2
−3

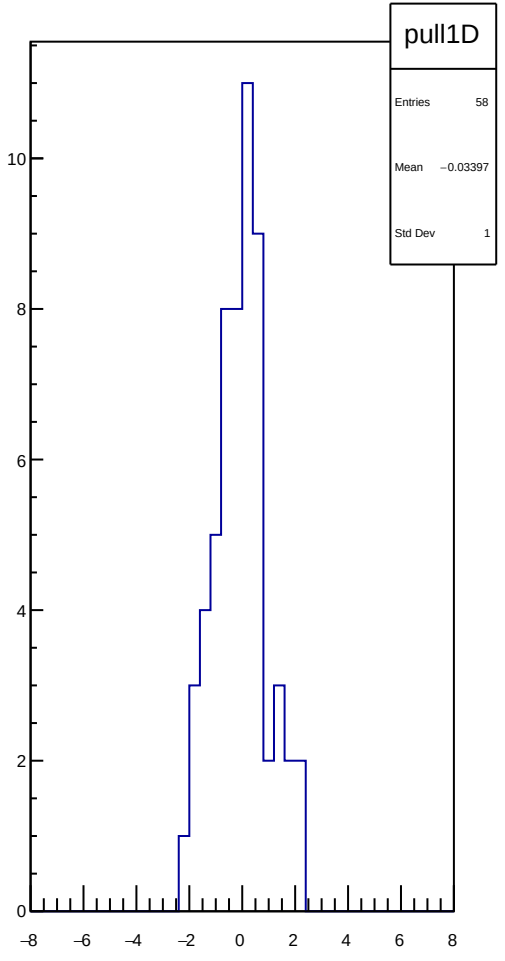

pull1D
Entries 60
Mean −0.1358
Std Dev 1.107
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

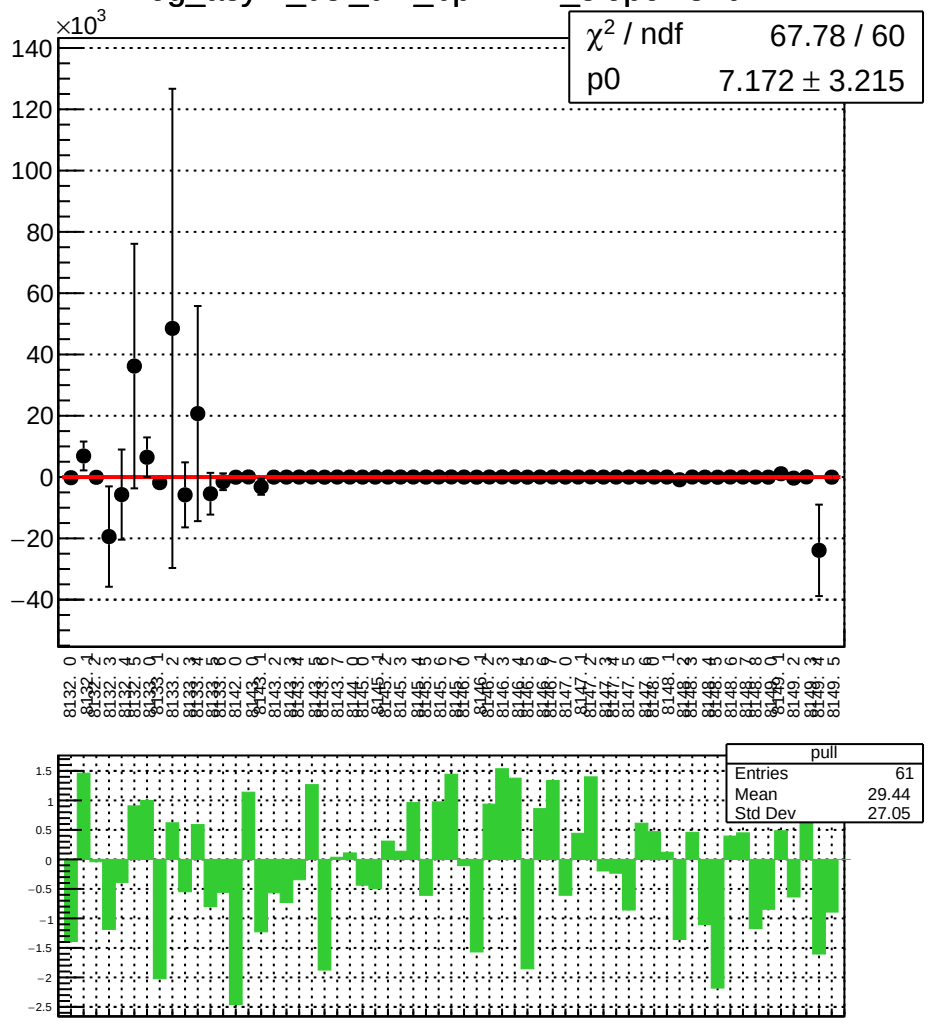

reg_asym_dsl_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 64.2 / 59
p0 −86.13 ± 71.94
pull
Entries 60
Mean 44.57
Std Dev 10.13

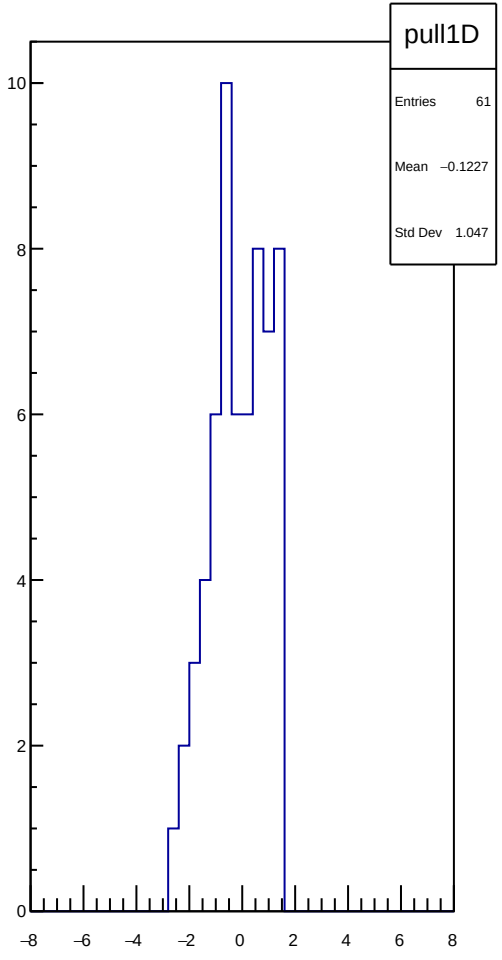

pull1D
Entries 60
Mean 0.05618
Std Dev 1.033

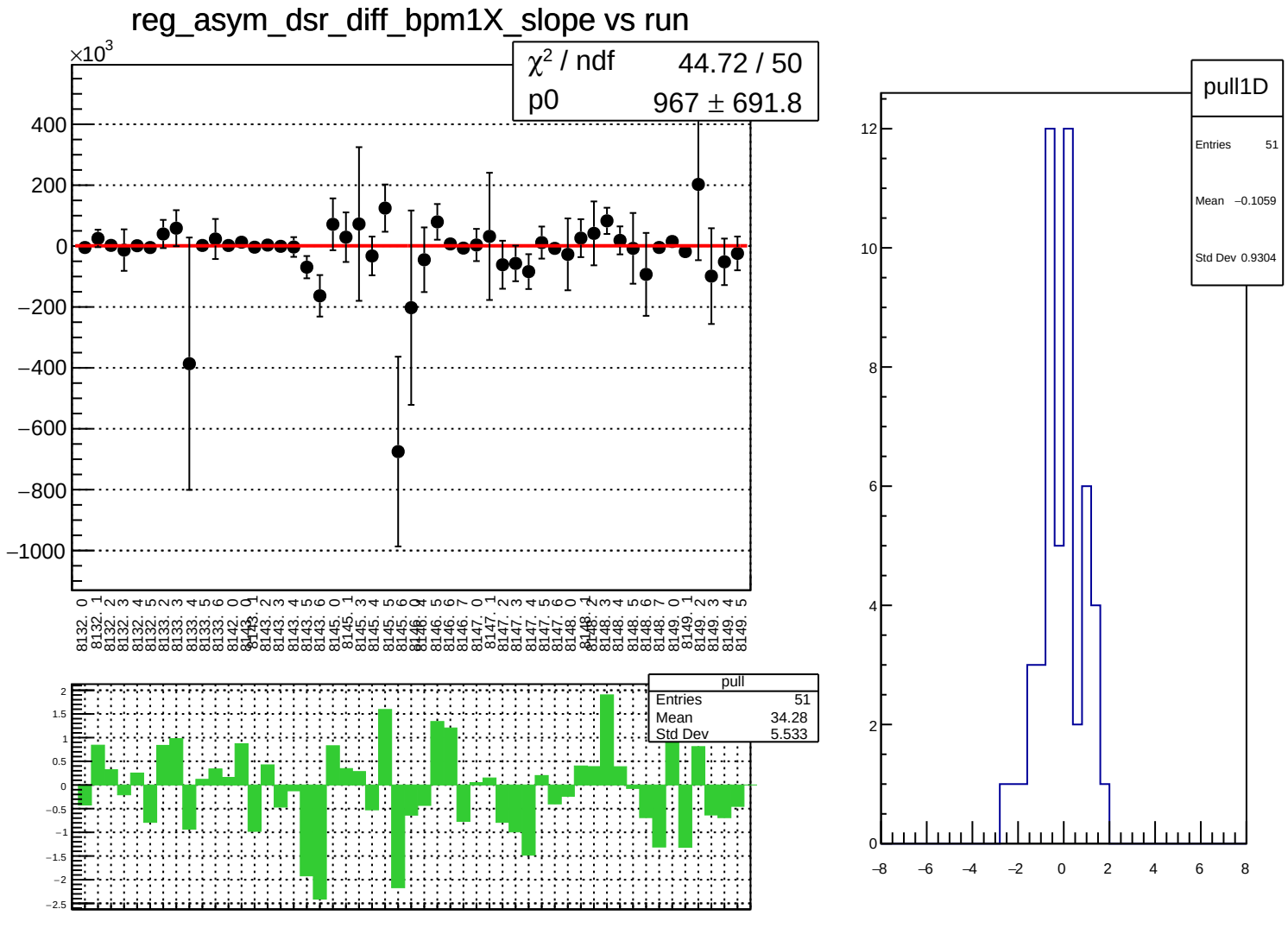

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 73.23 / 59
p0 42.23 ± 35.51
×10³
1000
500
0
−500
−1000
−1500
pull
Entries 60
Mean −2.144
Std Dev 24.98
pull1D
Entries 60
Mean 0.1197
Std Dev 1.098

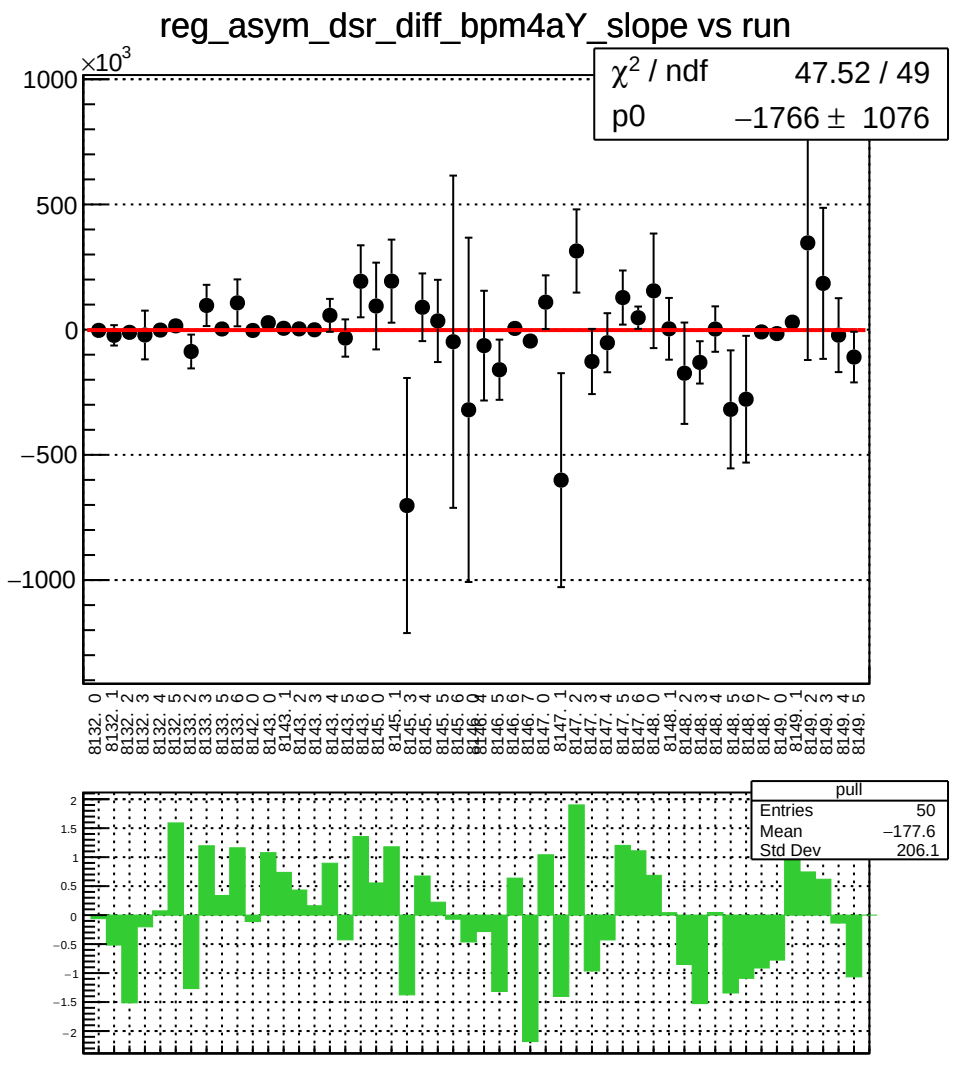

reg_asym_dsl_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 58.12 / 57
p0 94.28 ± 76.94
pull
Entries 58
Mean 84.67
Std Dev 55.6

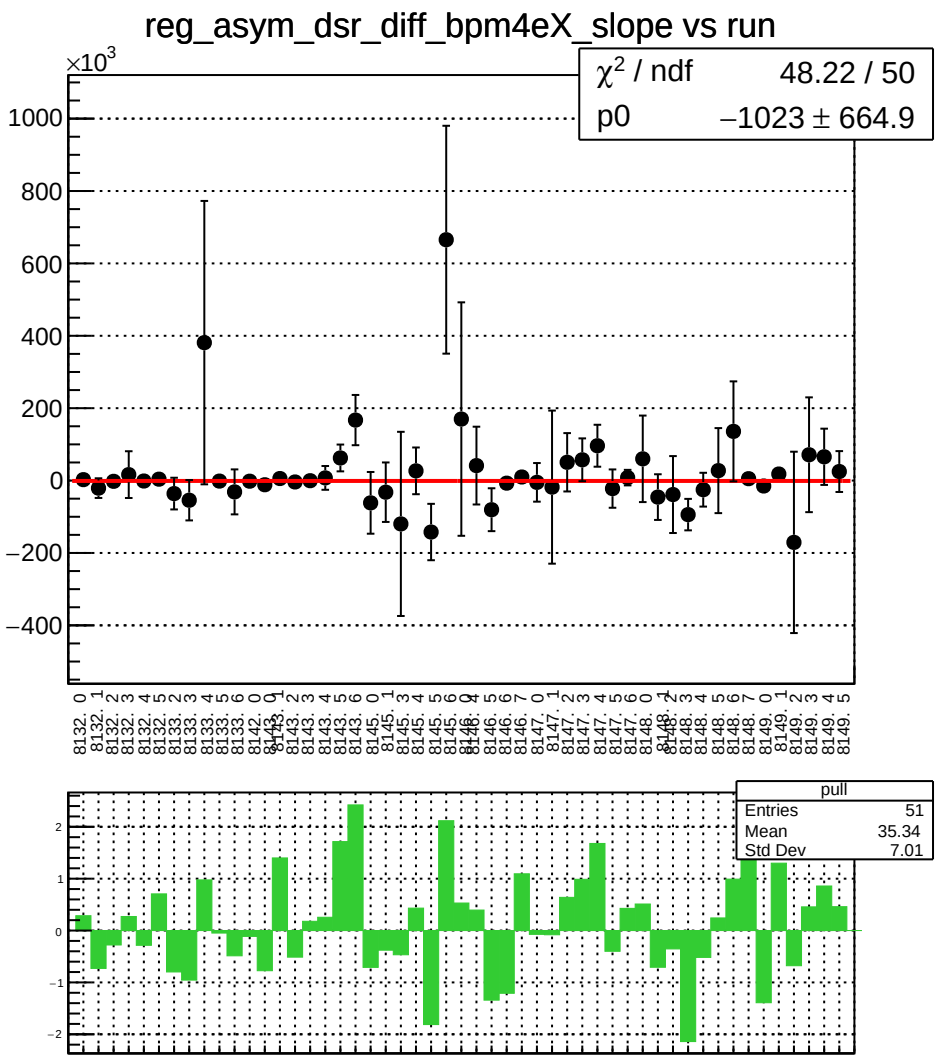

pull1D
Entries 58
Mean −0.03397
Std Dev 1

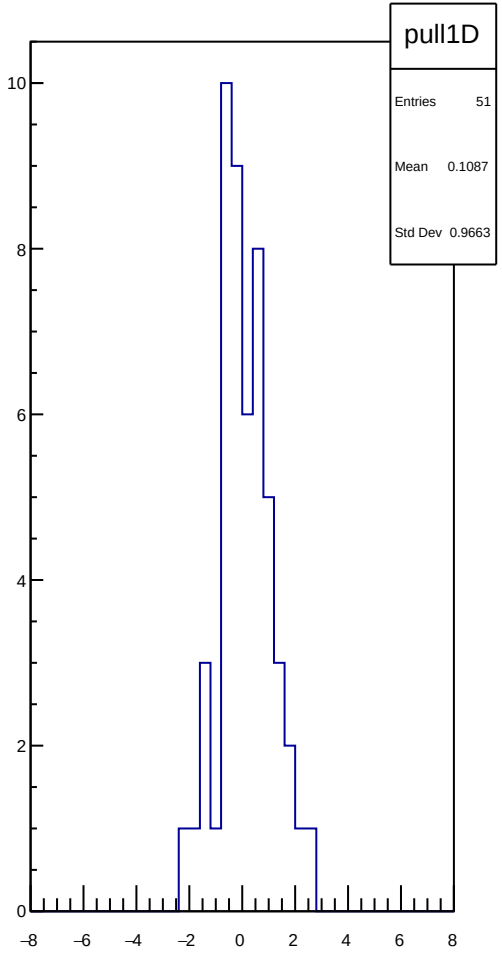

reg_asym_dsl_diff_bpm12X_slope vs run
×10^3
χ² / ndf 67.78 / 60
p0 7.172 ± 3.215
pull
Entries 61
Mean 29.44
Std Dev 27.05

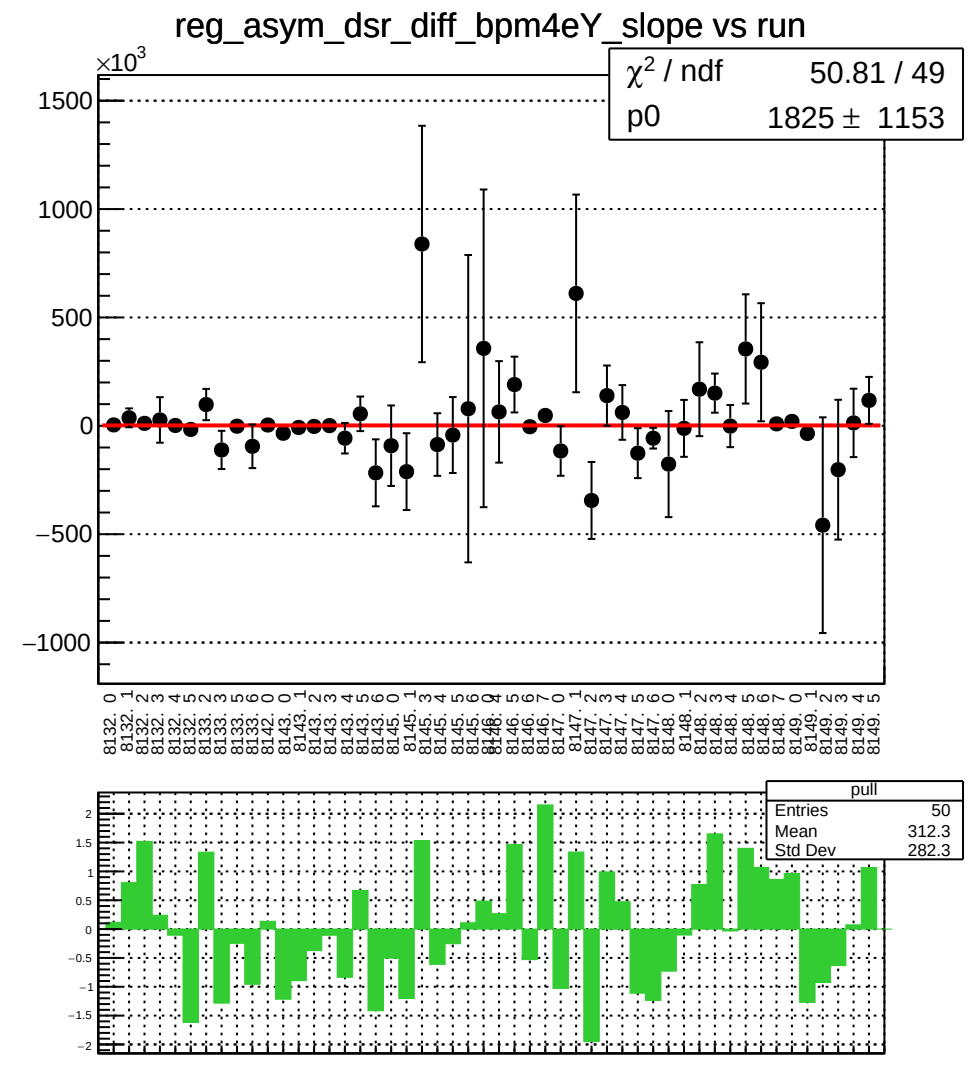

pull1D
Entries 61
Mean −0.1227
Std Dev 1.047

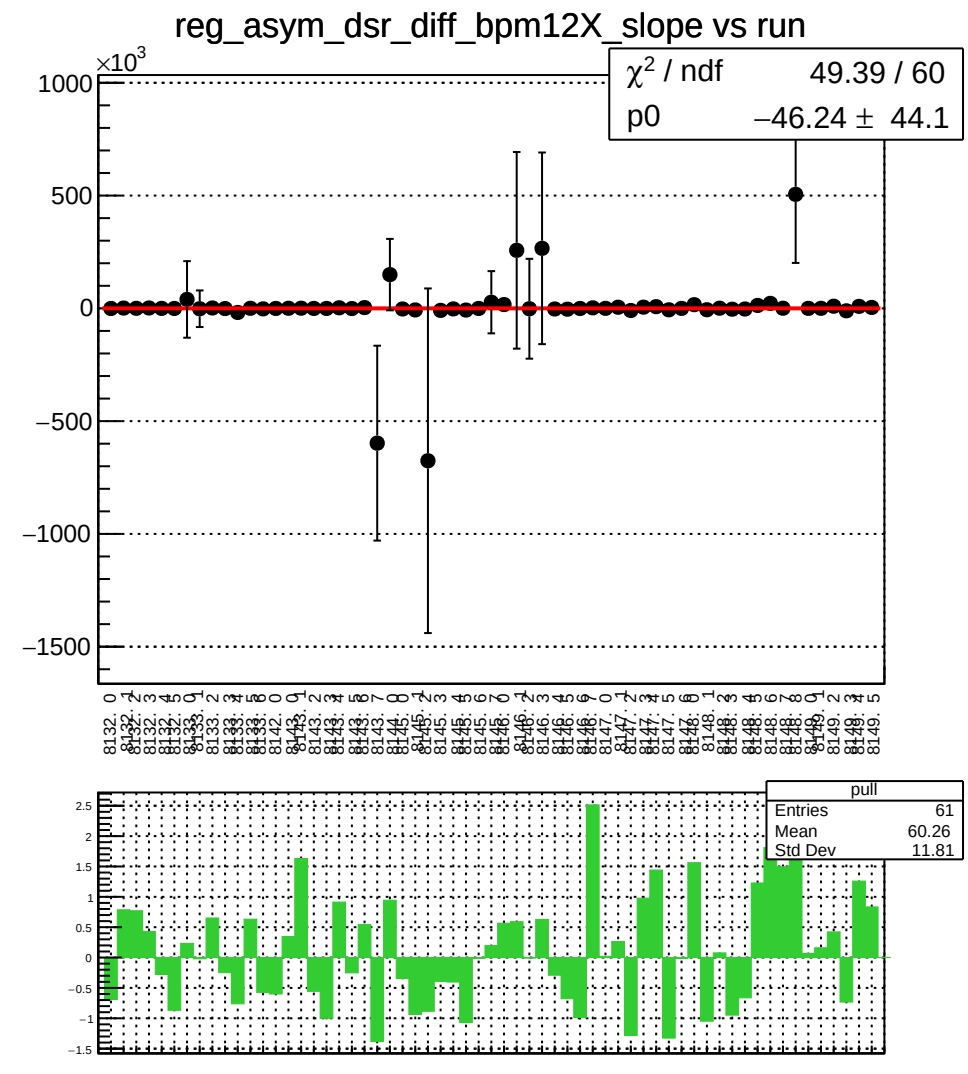

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 44.72 / 50
p0 967 ± 691.8
×10³
pull
Entries 51
Mean 34.28
Std Dev 5.533
pull1D
Entries 51
Mean −0.1059
Std Dev 0.9304

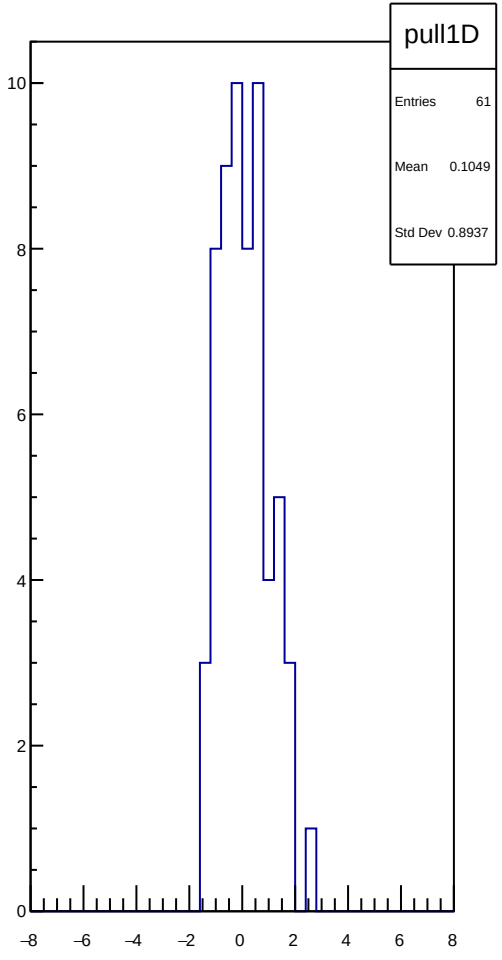

reg_asym_dsr_diff_bpm4aY_slope vs run
×10^3
1000
500
0
−500
−1000
χ² / ndf 47.52 / 49
p0 −1766 ± 1076
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 2
8133. 3
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8145. 0
8145. 1
8145. 3
8145. 4
8145. 5
8145. 6
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5
pull
Entries 50
Mean −177.6
Std Dev 206.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.01104
Std Dev 0.9748
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

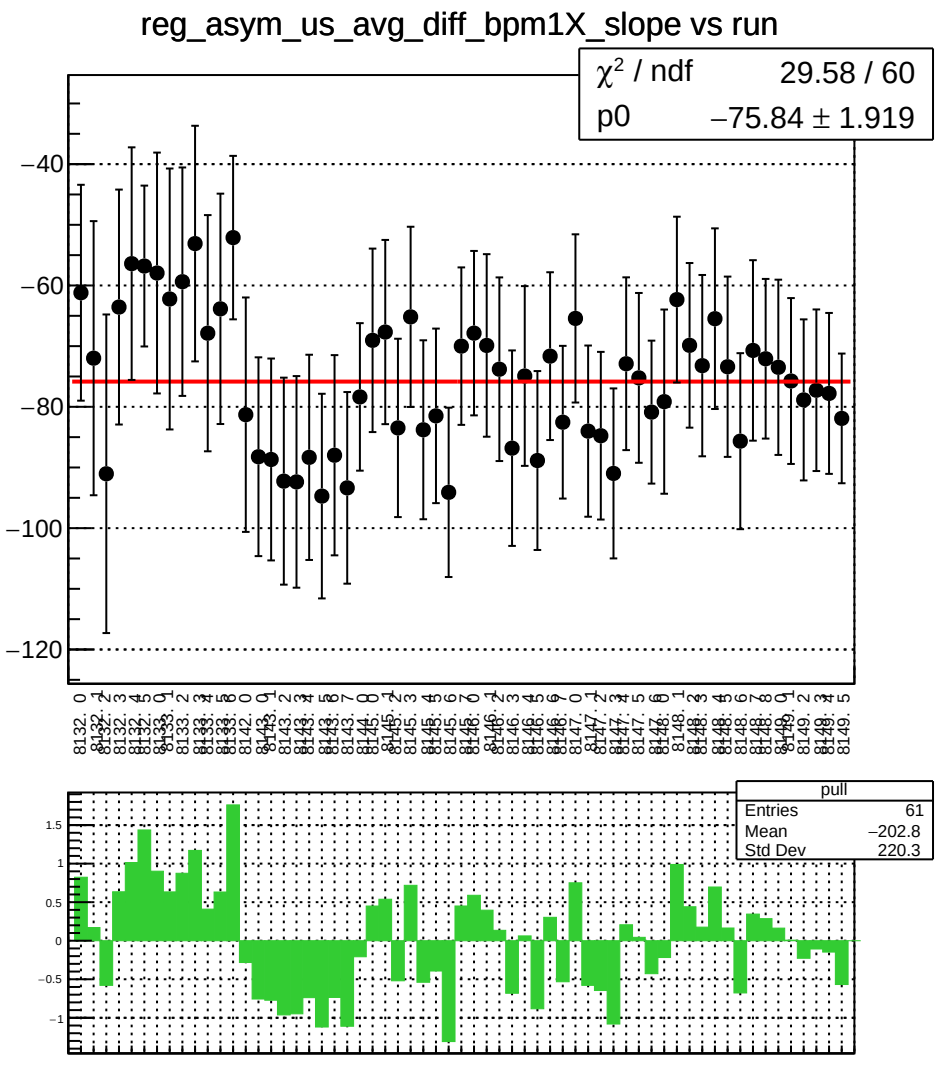

reg_asym_dsr_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 48.22 / 50
p0 −1023 ± 664.9
1000
800
600
400
200
0
−200
−400
pull
Entries 51
Mean 35.34
Std Dev 7.01
2
1
0
−1
−2

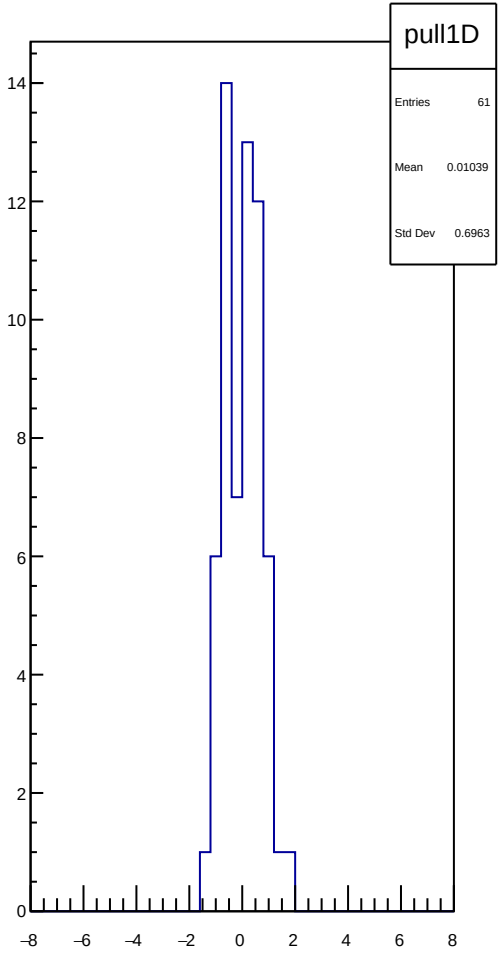

pull1D
Entries 51
Mean 0.1087
Std Dev 0.9663
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

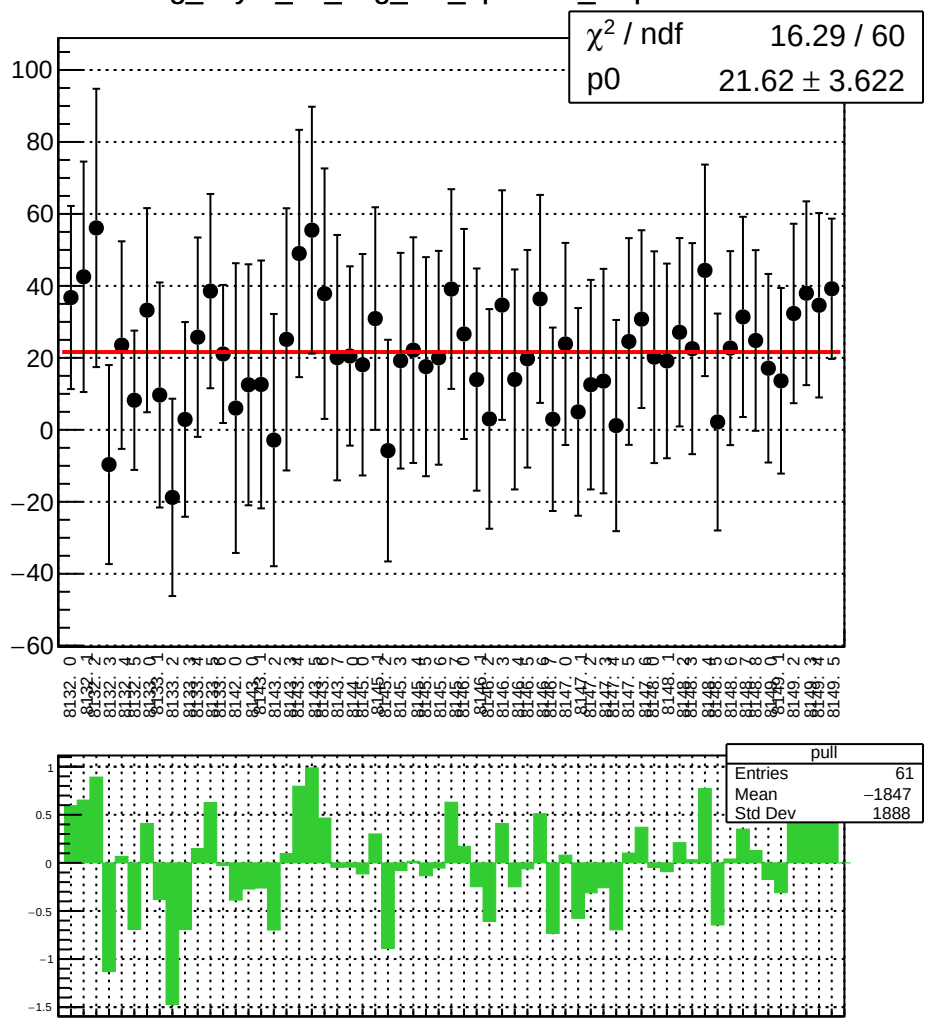

reg_asym_dsr_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 50.81 / 49
p0 1825 ± 1153
1500
1000
500
0
−500
−1000
8132. 0
8132. 1
8132. 2
8132. 3
8132. 4
8132. 5
8133. 2
8133. 3
8133. 5
8133. 6
8142. 0
8143. 0
8143. 1
8143. 2
8143. 3
8143. 4
8143. 5
8143. 6
8145. 0
8145. 1
8145. 3
8145. 4
8145. 5
8145. 6
8146. 4
8146. 5
8146. 6
8146. 7
8147. 0
8147. 1
8147. 2
8147. 3
8147. 4
8147. 5
8147. 6
8148. 0
8148. 1
8148. 2
8148. 3
8148. 4
8148. 5
8148. 6
8148. 7
8149. 0
8149. 1
8149. 2
8149. 3
8149. 4
8149. 5
pull
Entries 50
Mean 312.3
Std Dev 282.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.006505
Std Dev 1.008
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

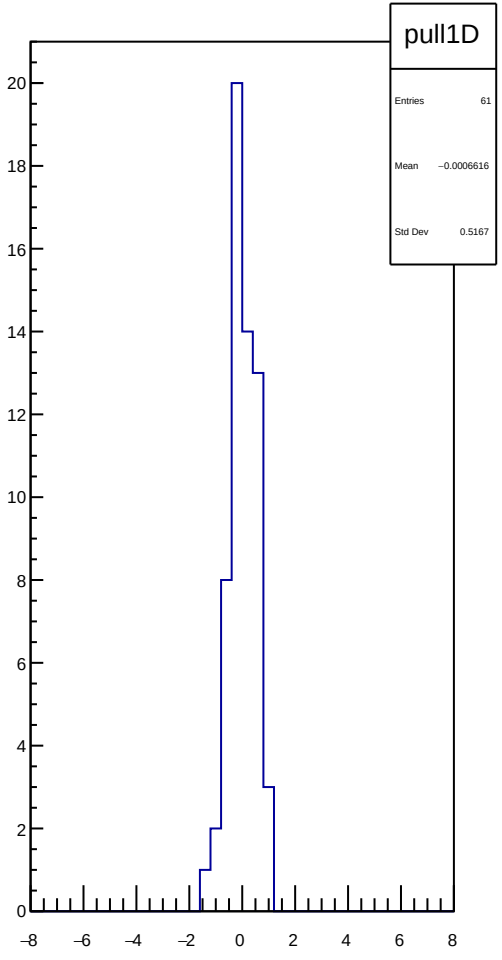

reg_asym_dsr_diff_bpm12X_slope vs run
×10^3
χ² / ndf 49.39 / 60
p0 −46.24 ± 44.1
pull
Entries 61
Mean 60.26
Std Dev 11.81

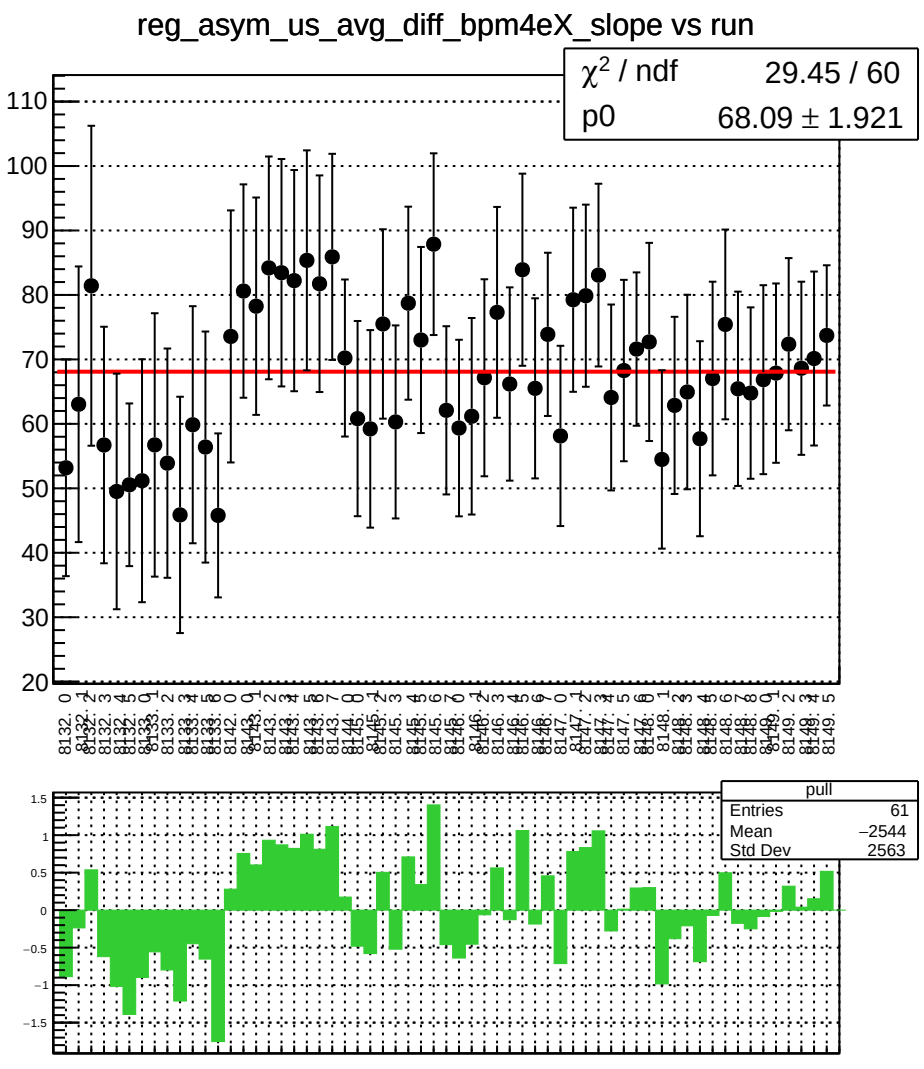

pull1D
Entries 61
Mean 0.1049
Std Dev 0.8937

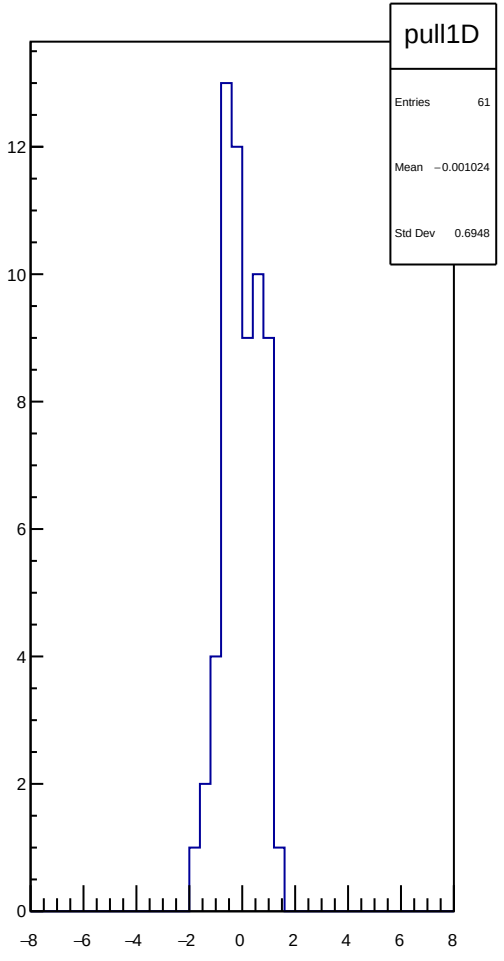

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 29.58 / 60
p0 −75.84 ± 1.919
pull
Entries 61
Mean −202.8
Std Dev 220.3

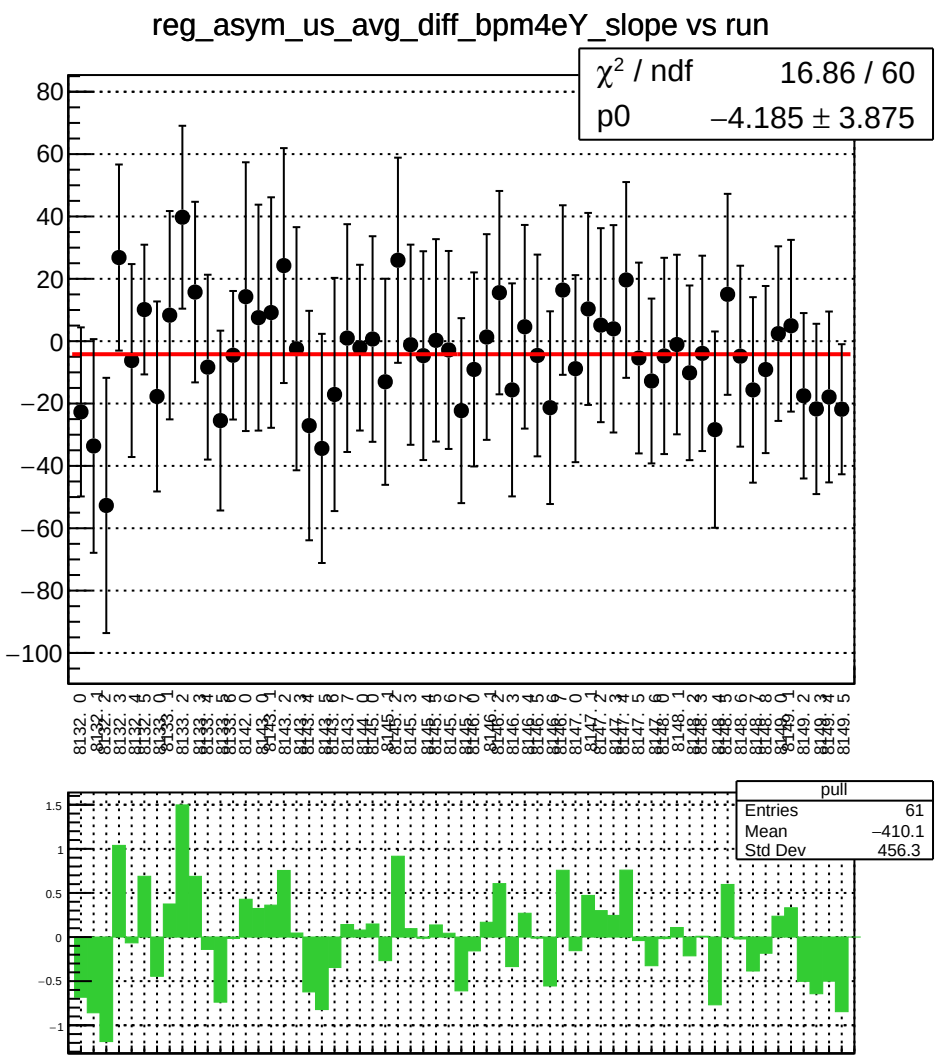

pull1D
Entries 61
Mean 0.01039
Std Dev 0.6963

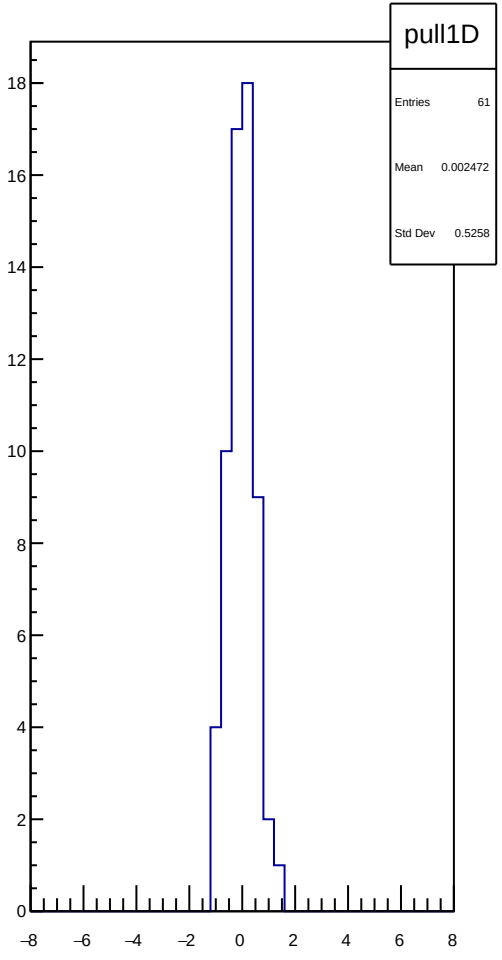

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.29 / 60
p0 21.62 ± 3.622
pull
Entries 61
Mean −1847
Std Dev 1888

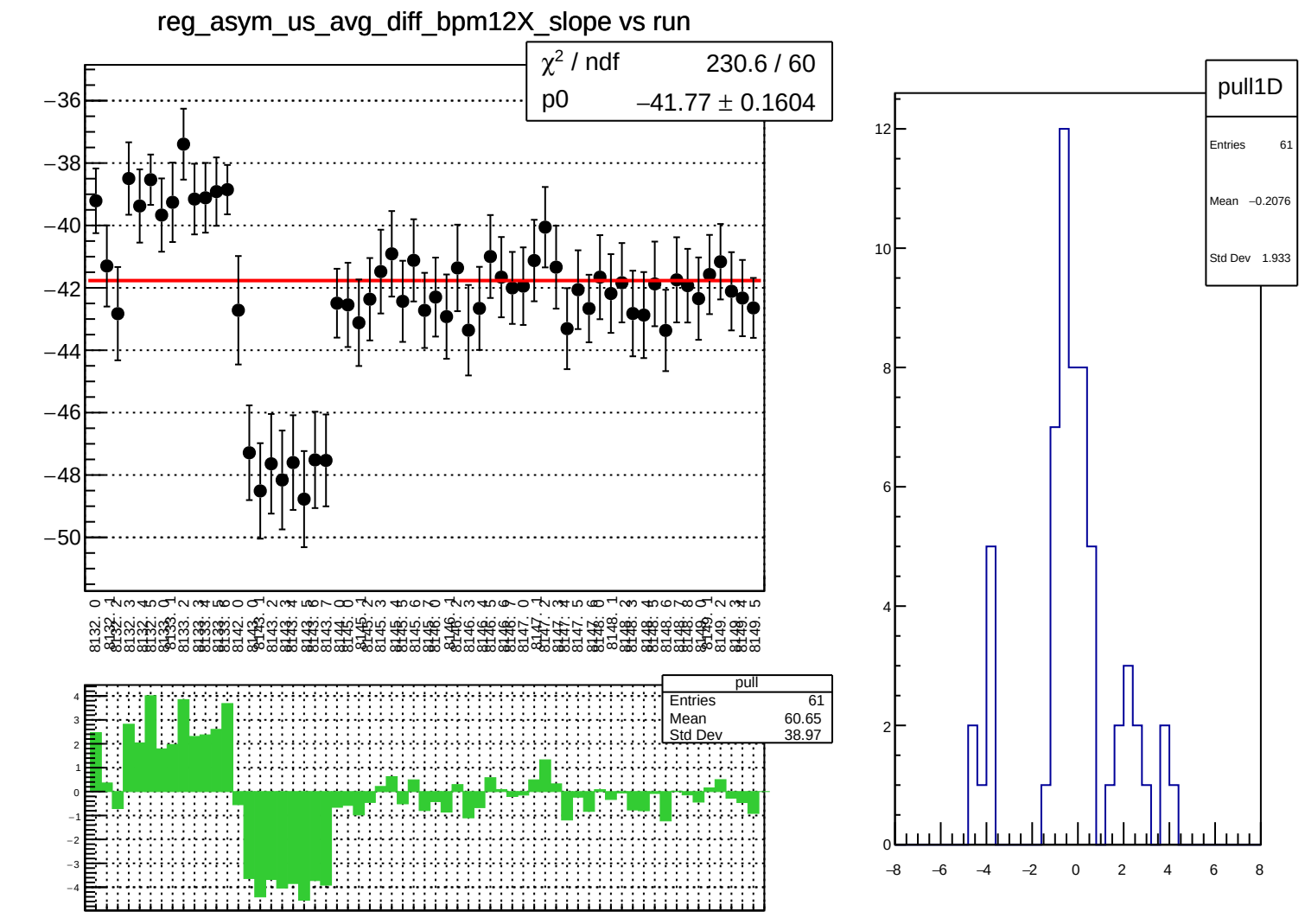

pull1D
Entries 61
Mean −0.0006616
Std Dev 0.5167

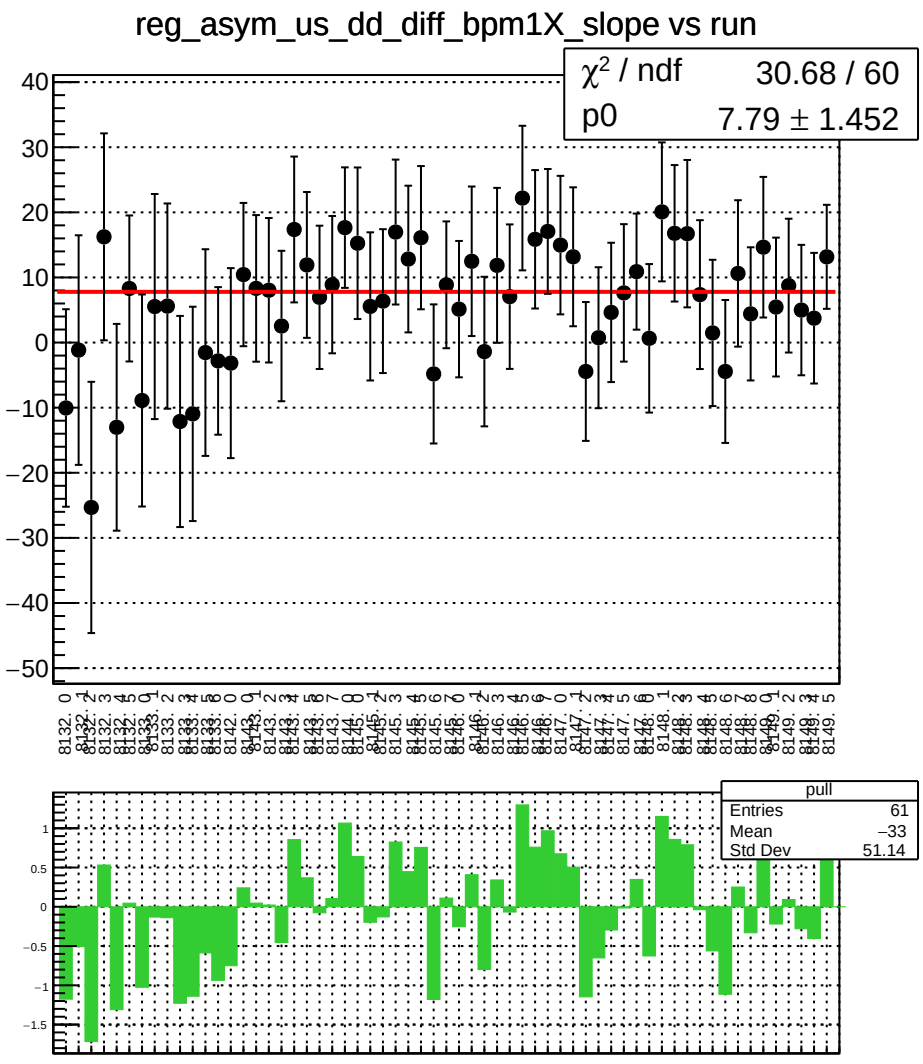

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.45 / 60
p0 68.09 ± 1.921
pull
Entries 61
Mean −2544
Std Dev 2563

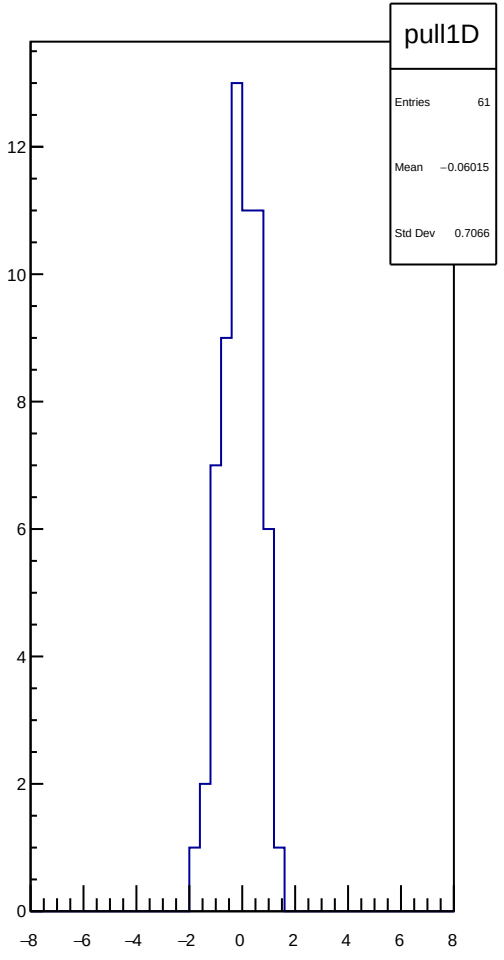

pull1D
Entries 61
Mean −0.001024
Std Dev 0.6948

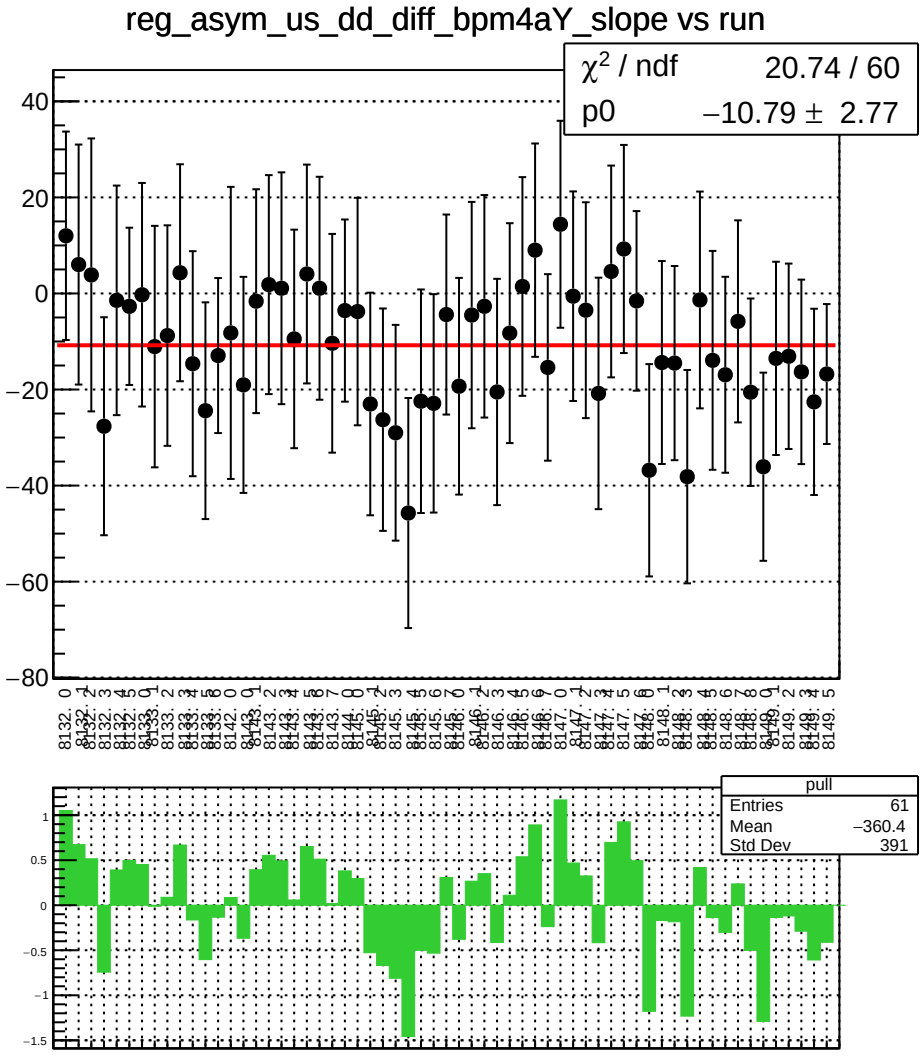

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.86 / 60
p0 −4.185 ± 3.875
pull
Entries 61
Mean −410.1
Std Dev 456.3

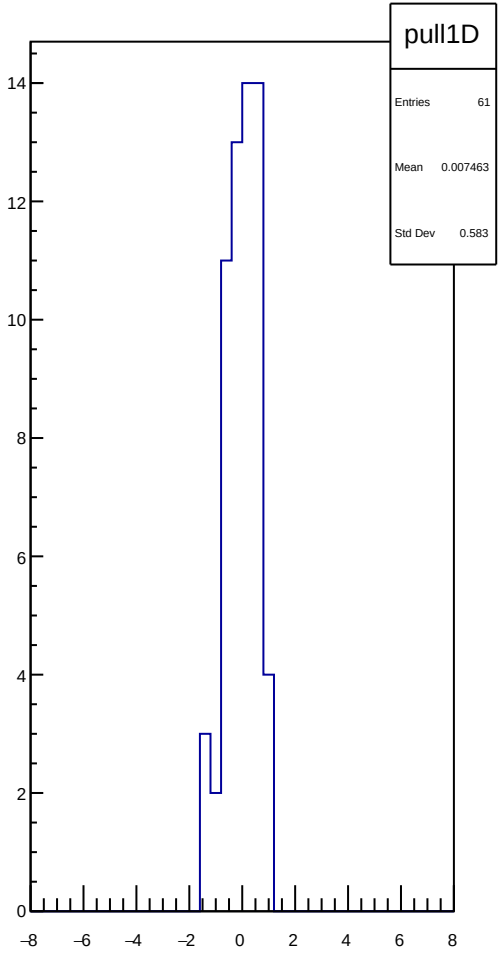

pull1D
Entries 61
Mean 0.002472
Std Dev 0.5258

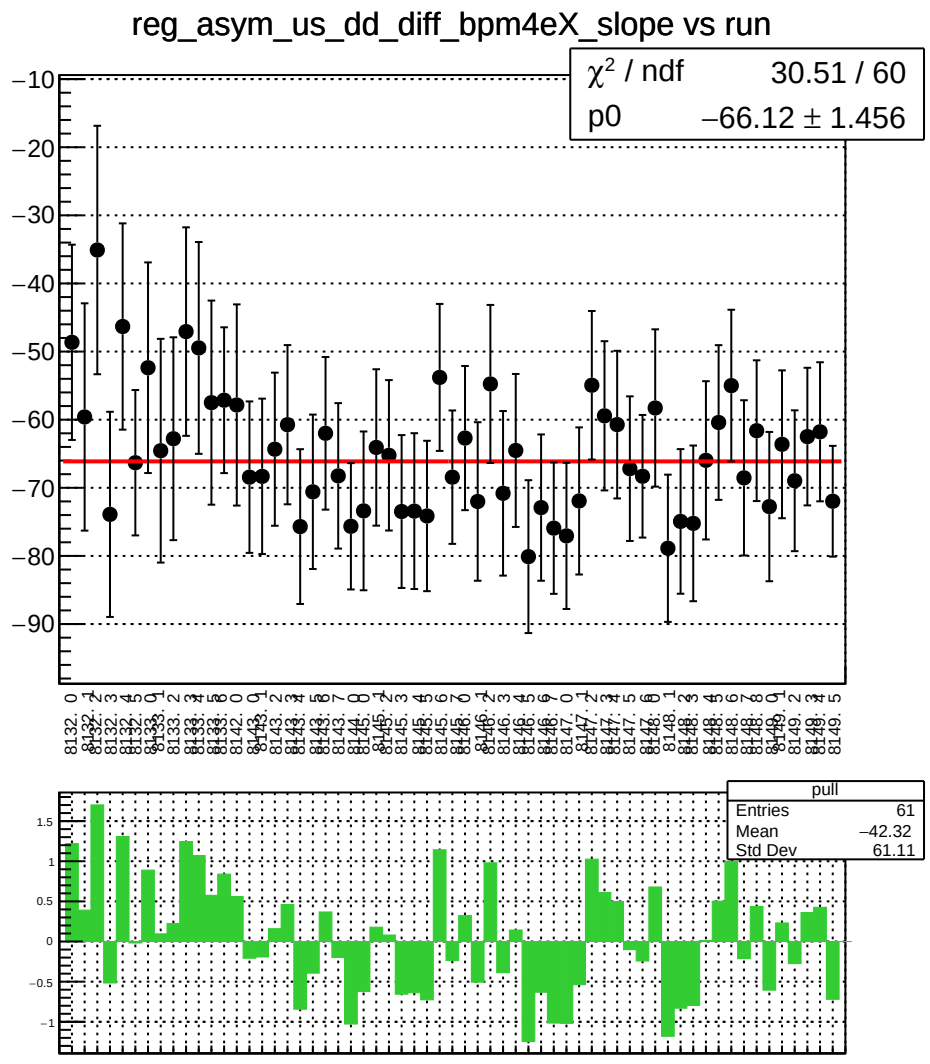

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 230.6 / 60
p0 −41.77 ± 0.1604
pull
Entries 61
Mean 60.65
Std Dev 38.97
pull1D
Entries 61
Mean −0.2076
Std Dev 1.933

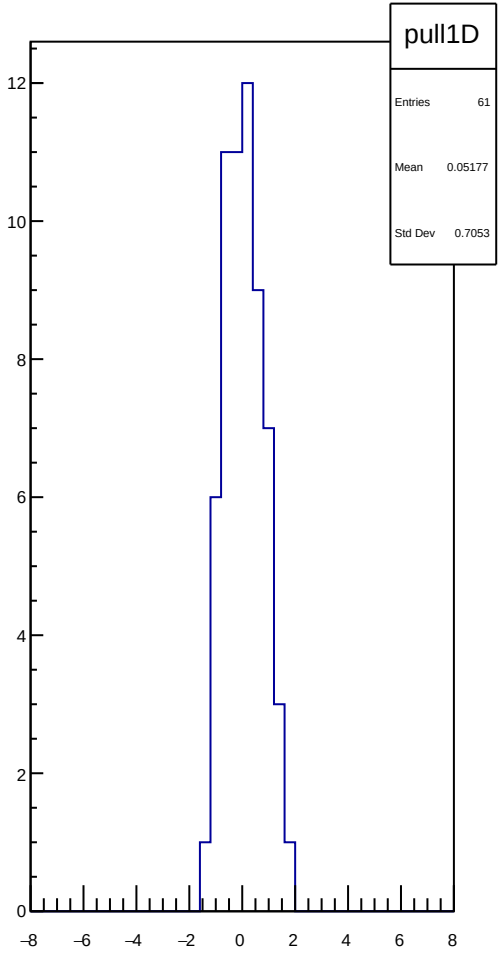

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 30.68 / 60
p0 7.79 ± 1.452
pull
Entries 61
Mean −33
Std Dev 51.14

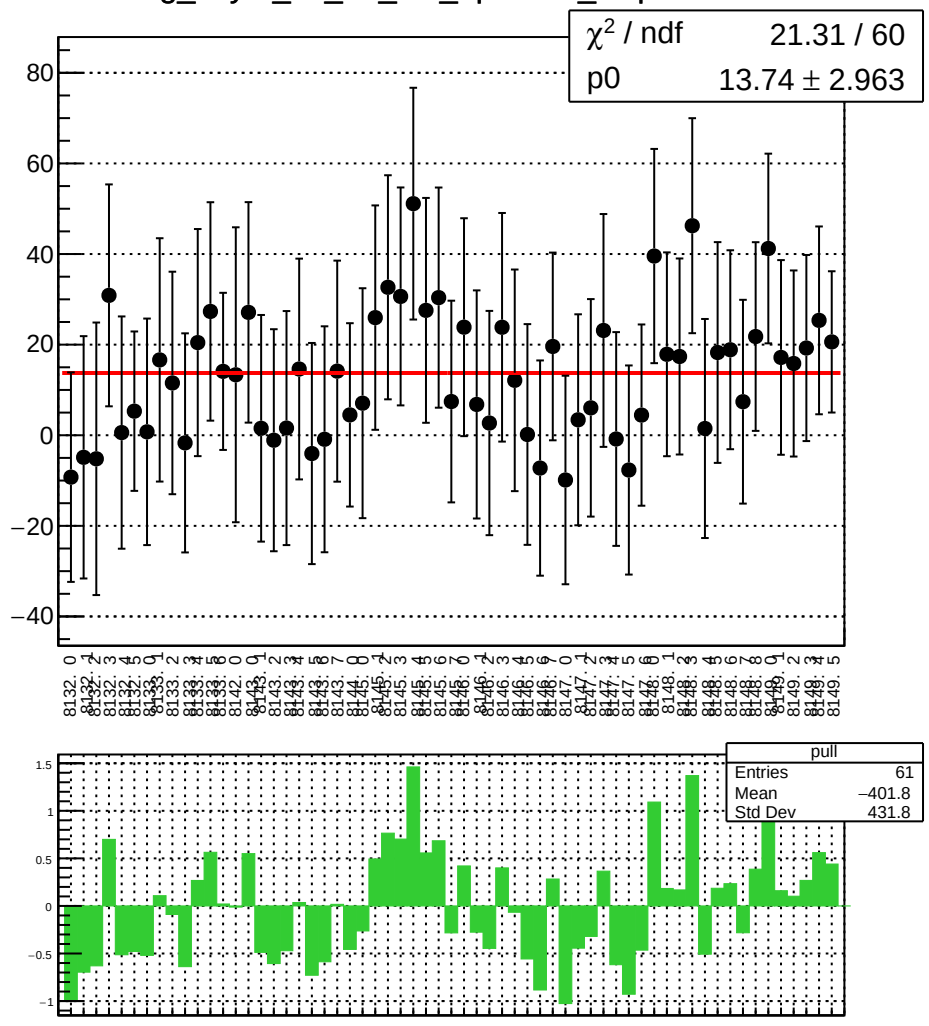

pull1D
Entries 61
Mean −0.06015
Std Dev 0.7066

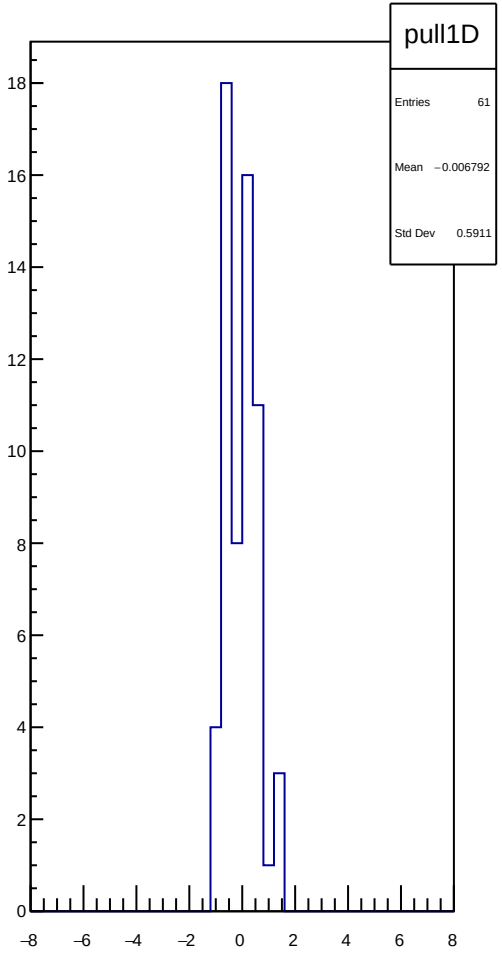

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.74 / 60
p0 −10.79 ± 2.77
pull
Entries 61
Mean −360.4
Std Dev 391

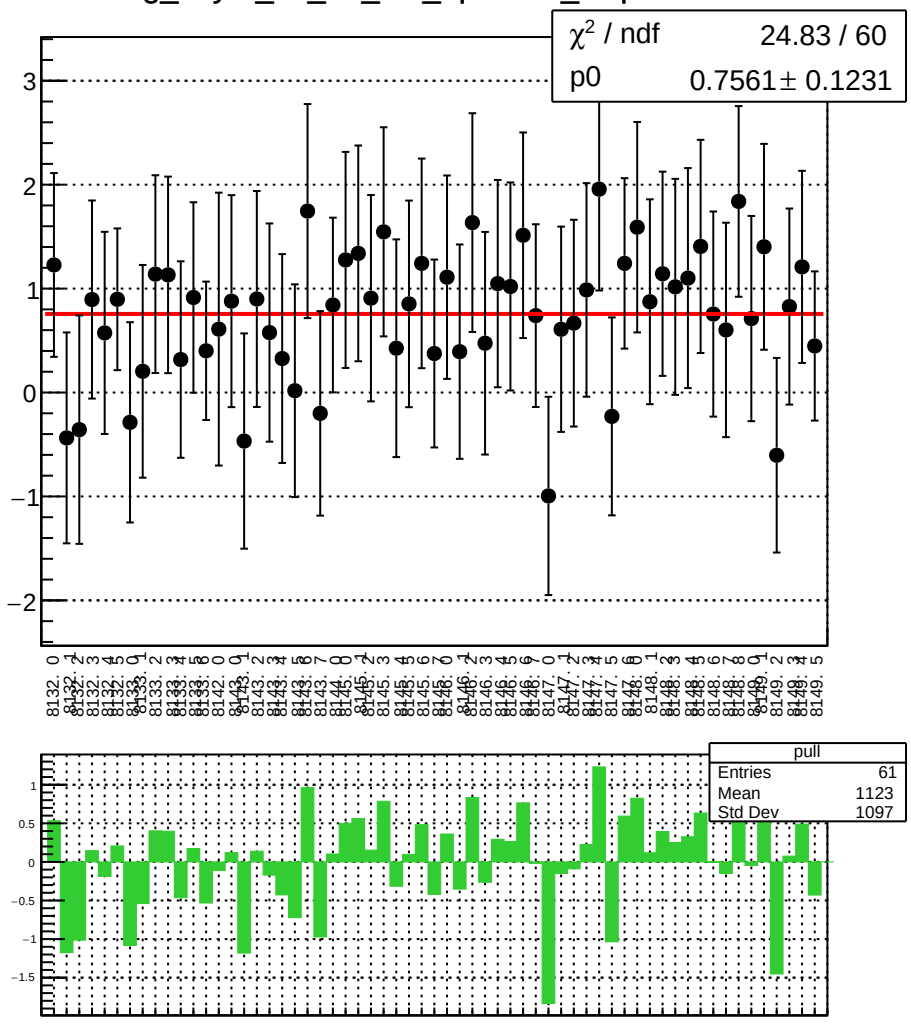

pull1D
Entries 61
Mean 0.007463
Std Dev 0.583

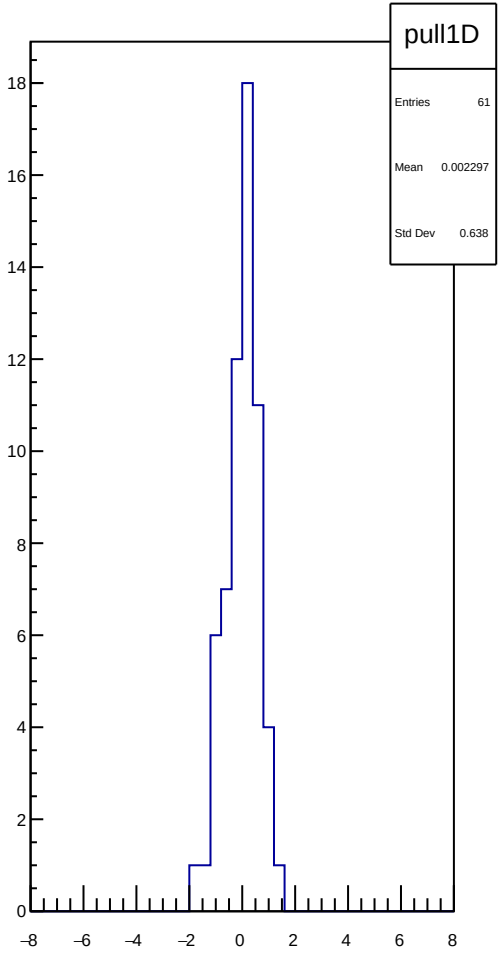

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.51 / 60
p0 −66.12 ± 1.456
pull
Entries 61
Mean −42.32
Std Dev 61.11

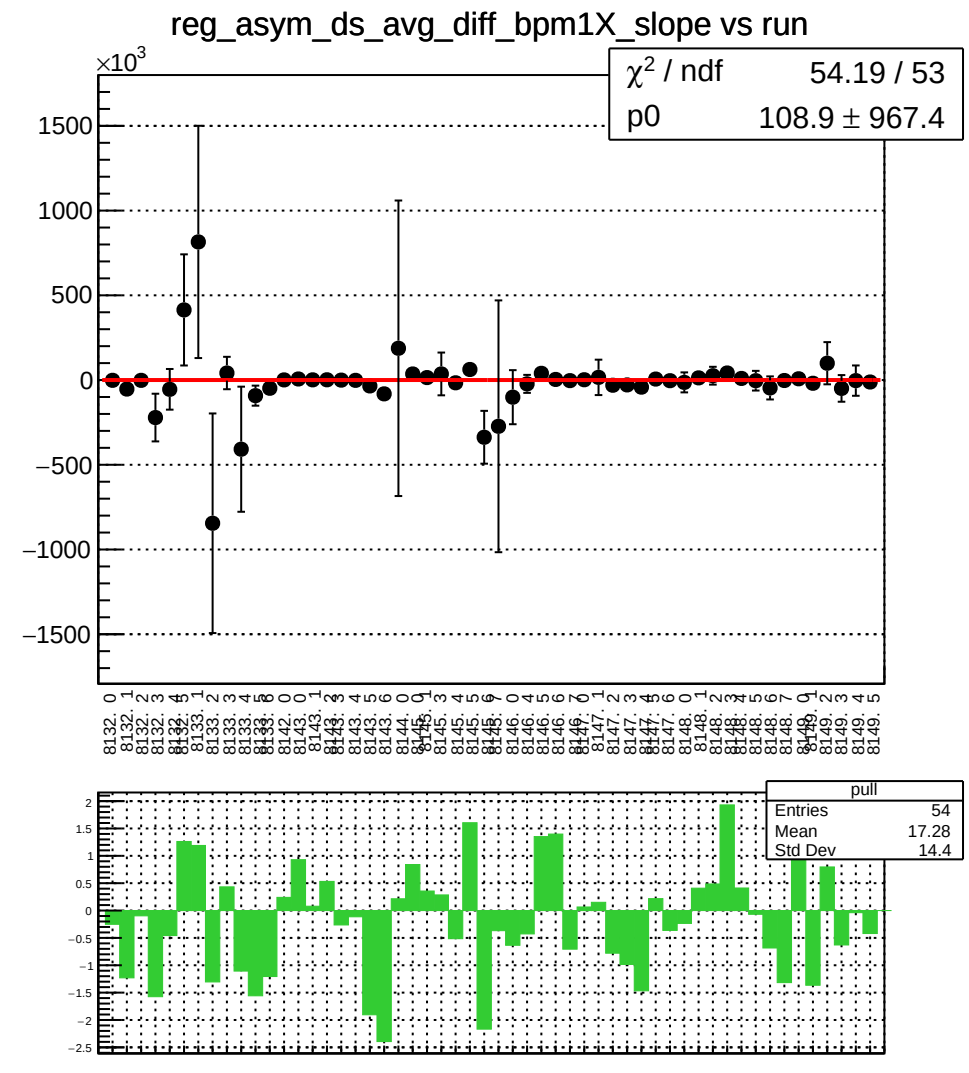

pull1D
Entries 61
Mean 0.05177
Std Dev 0.7053

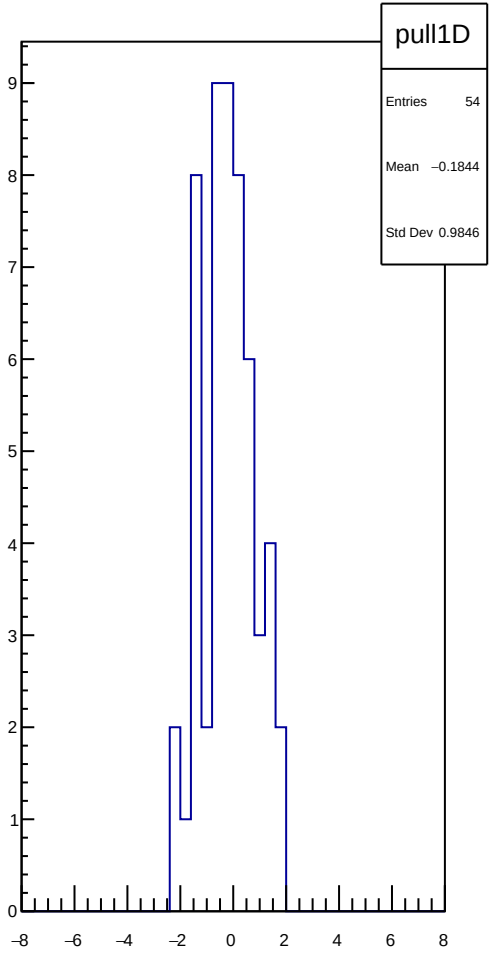

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.31 / 60
p0 13.74 ± 2.963
pull
Entries 61
Mean −401.8
Std Dev 431.8

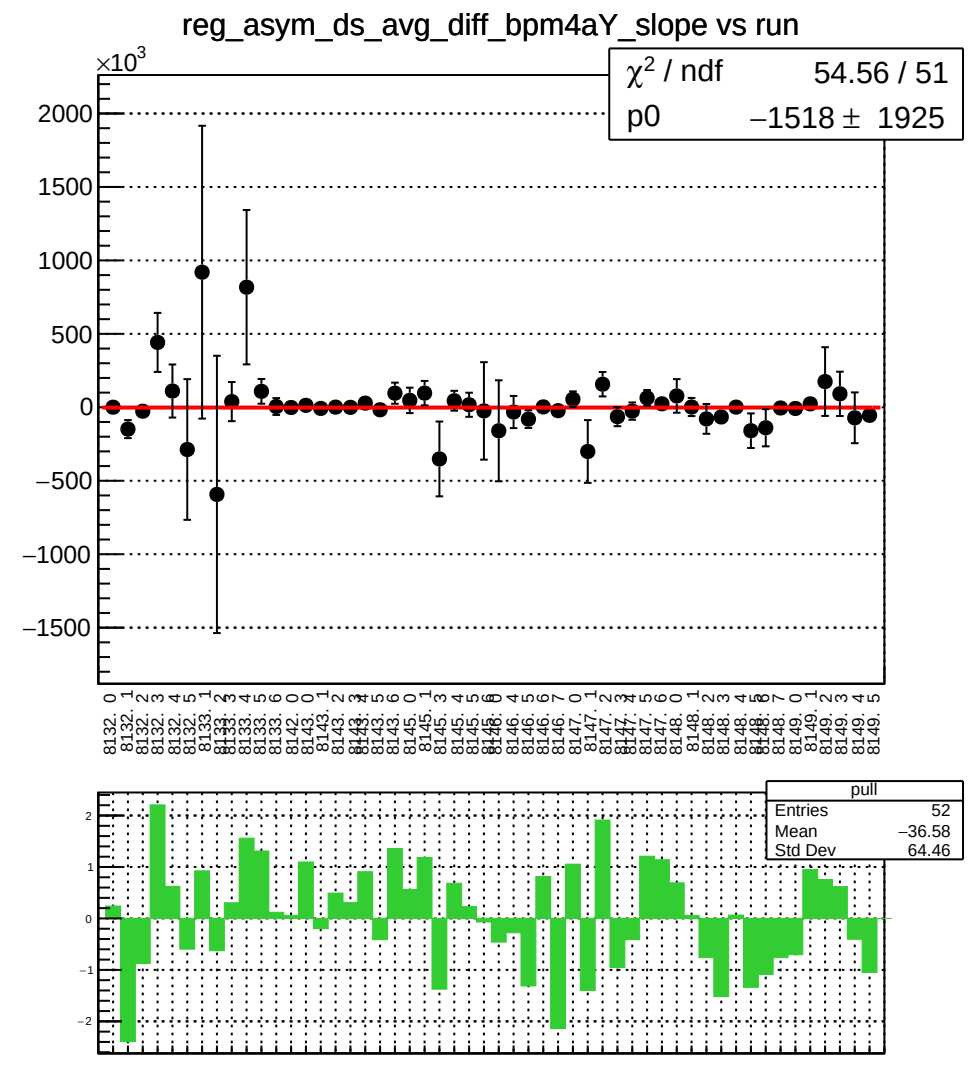

pull1D
Entries 61
Mean −0.006792
Std Dev 0.5911

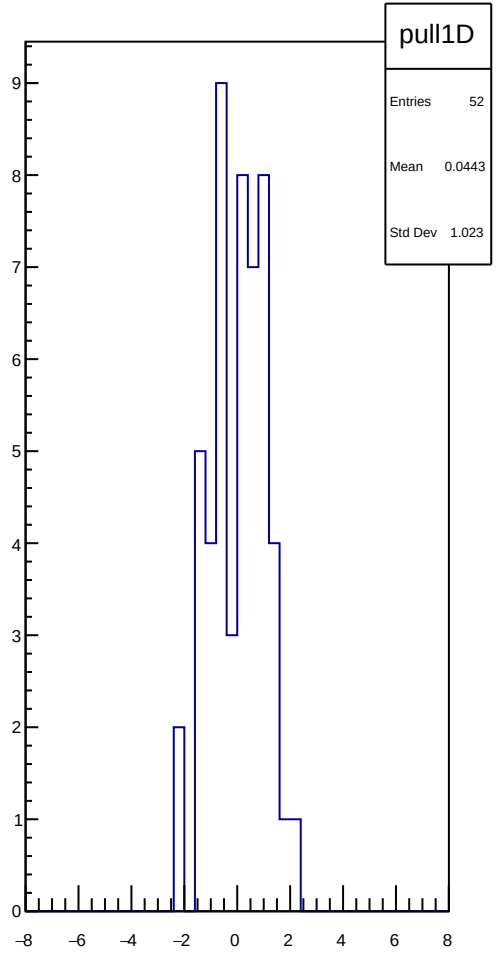

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 24.83 / 60
p0 0.7561 ± 0.1231
pull
Entries 61
Mean 1123
Std Dev 1097

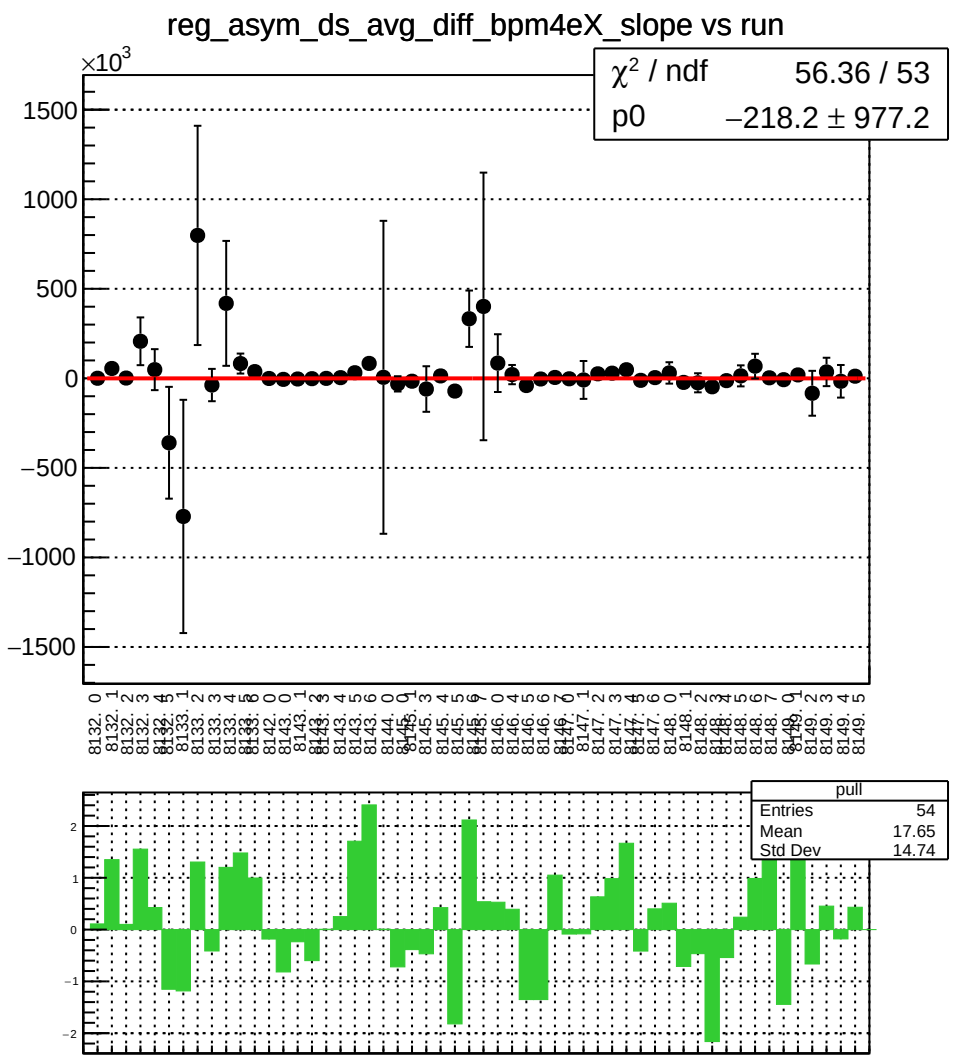

pull1D
Entries 61
Mean 0.002297
Std Dev 0.638

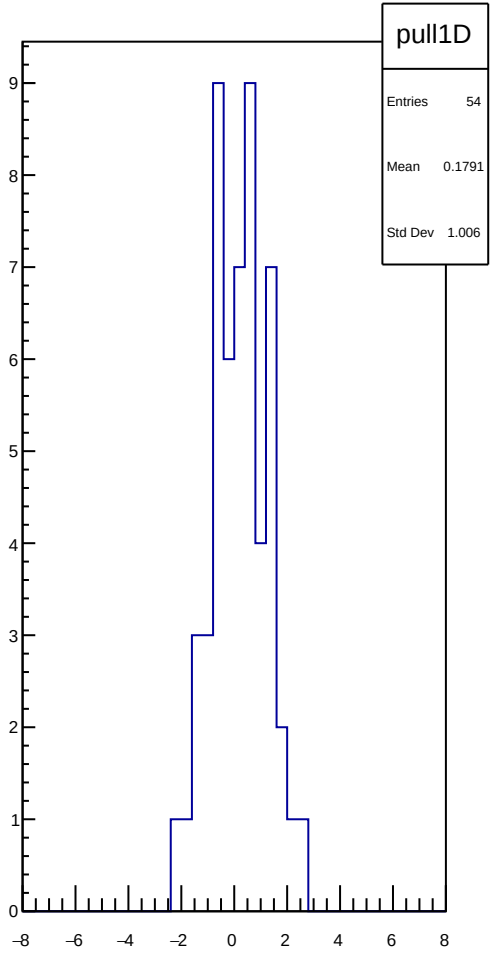

reg_asym_ds_avg_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 54.19 / 53
p0 108.9 ± 967.4
1500
1000
500
0
−500
−1000
−1500
pull
Entries 54
Mean 17.28
Std Dev 14.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

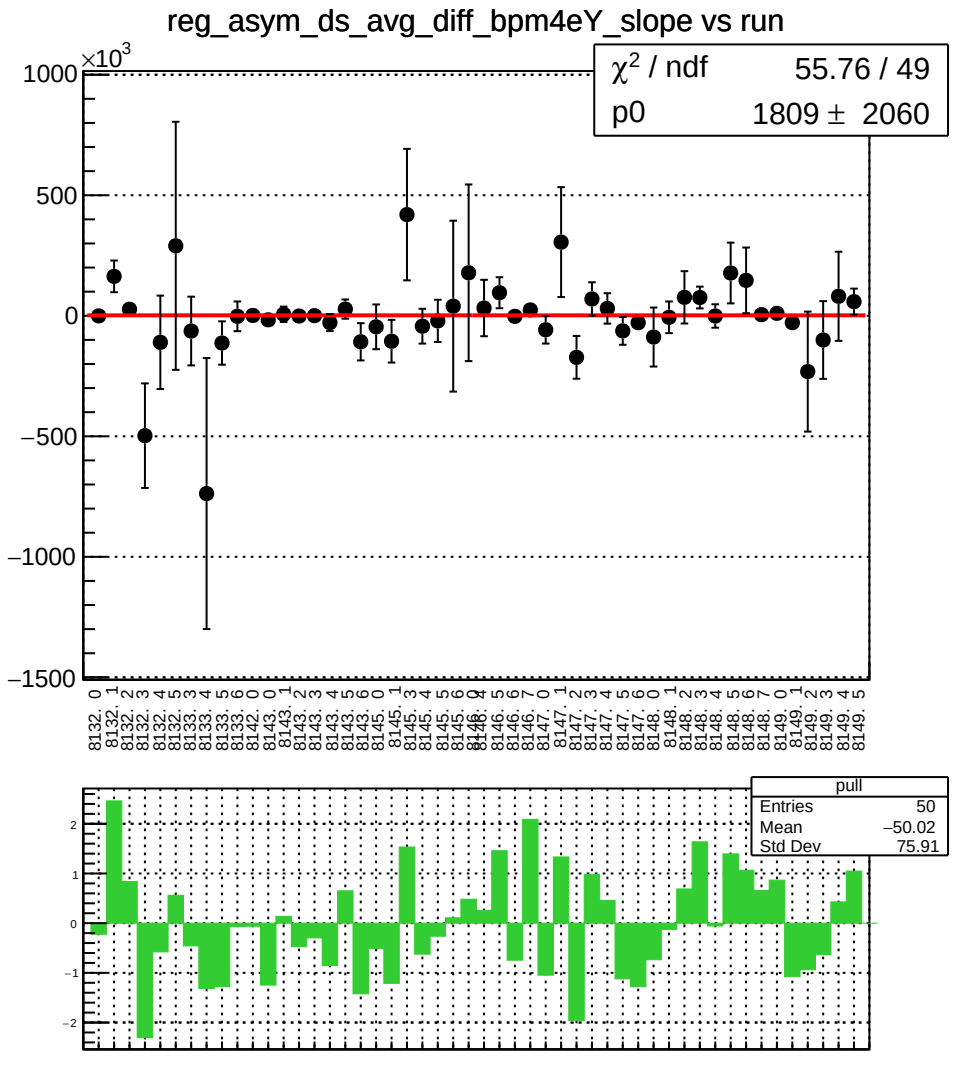

pull1D
Entries 54
Mean −0.1844
Std Dev 0.9846
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

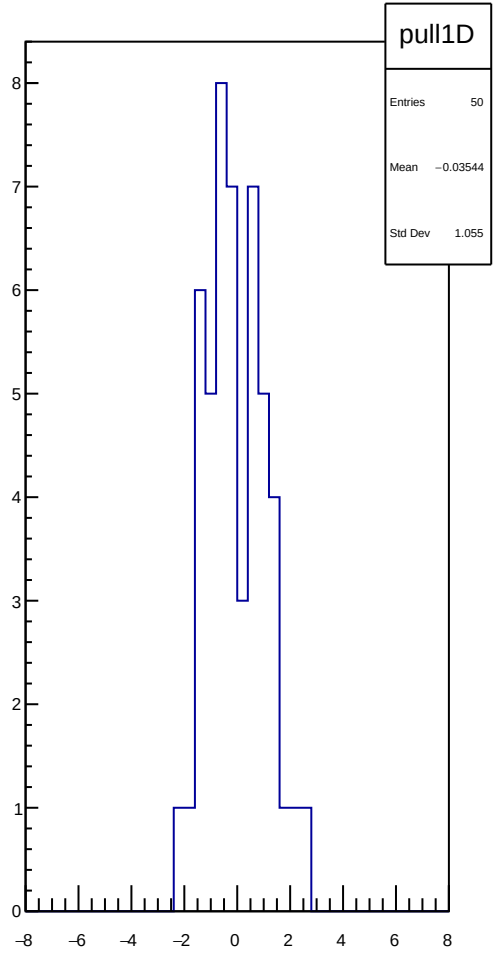

reg_asym_ds_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 54.56 / 51
p0 −1518 ± 1925
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 52
Mean −36.58
Std Dev 64.46
2
1
0
−1
−2

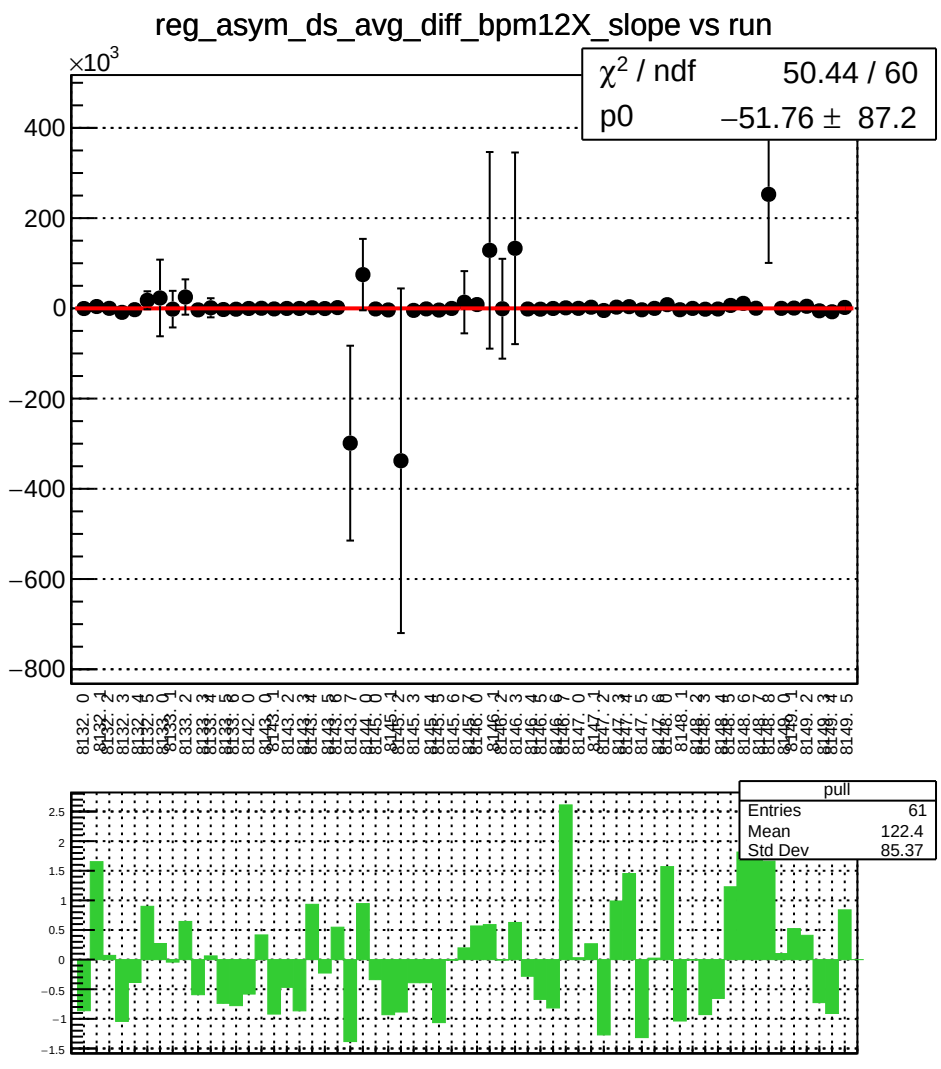

pull1D
Entries 52
Mean 0.0443
Std Dev 1.023
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

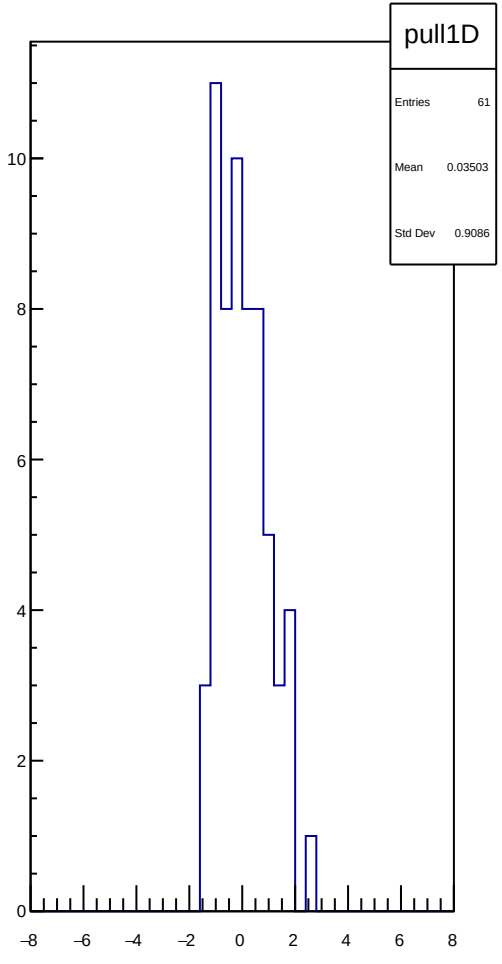

reg_asym_ds_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 56.36 / 53
p0 −218.2 ± 977.2
1500
1000
500
0
−500
−1000
−1500
pull
Entries 54
Mean 17.65
Std Dev 14.74
2
1
0
−1
−2

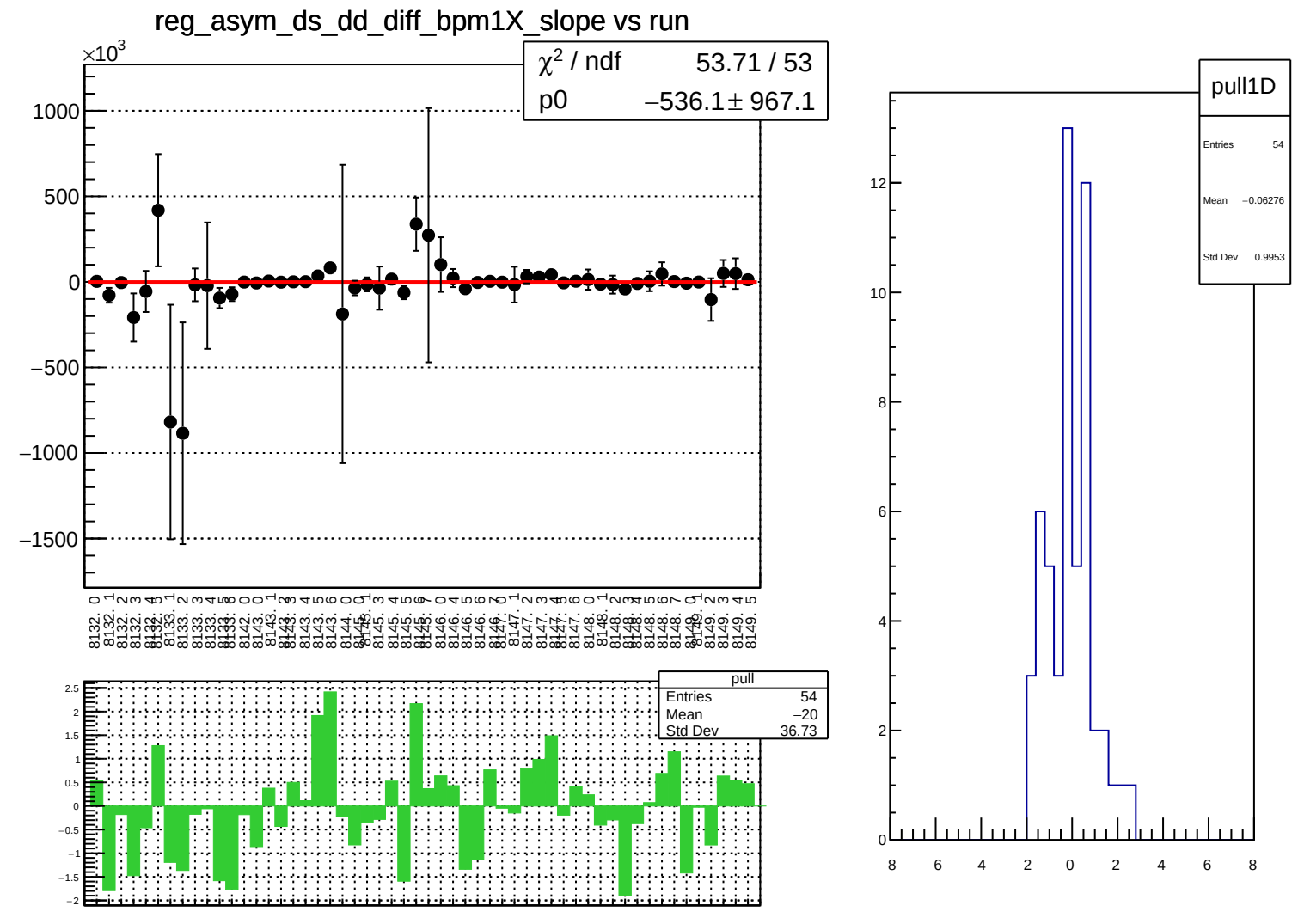

pull1D
Entries 54
Mean 0.1791
Std Dev 1.006
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

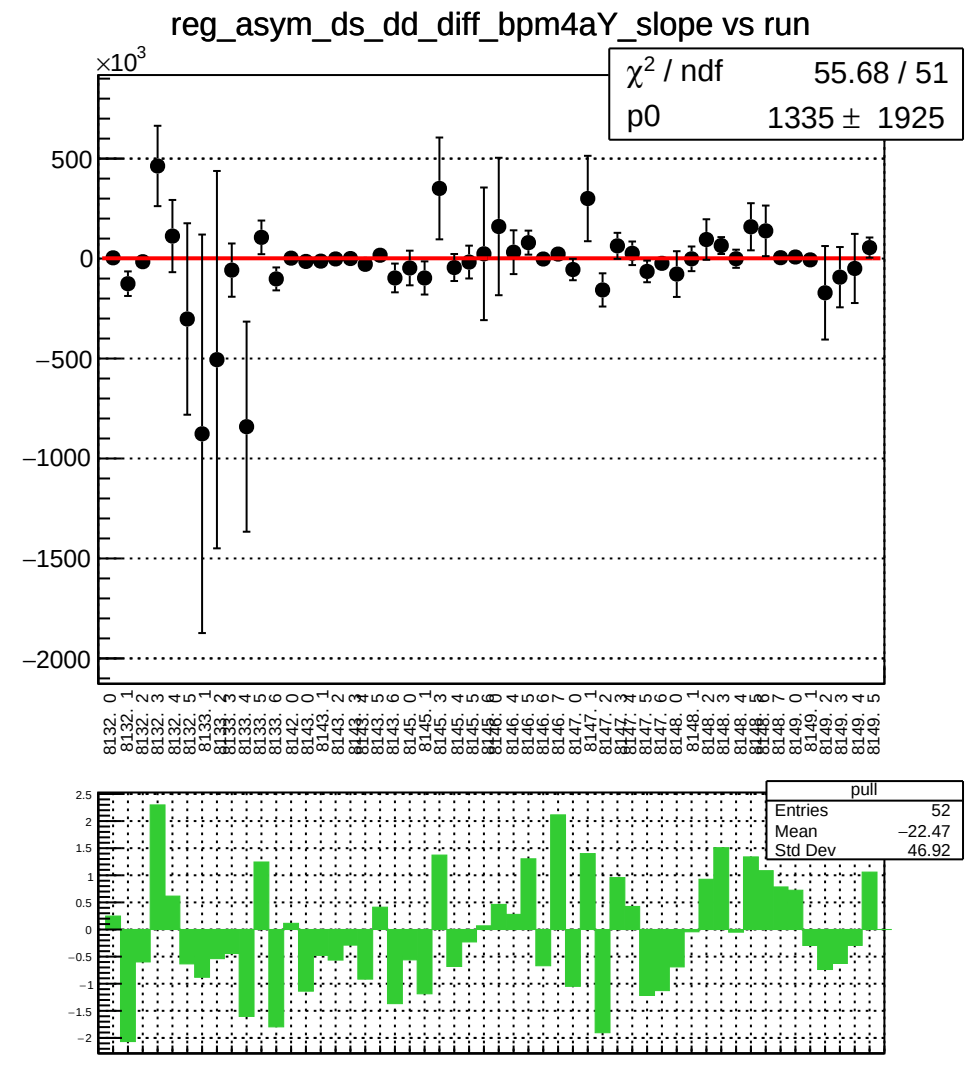

reg_asym_ds_avg_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 55.76 / 49
p0 1809 ± 2060
pull
Entries 50
Mean −50.02
Std Dev 75.91

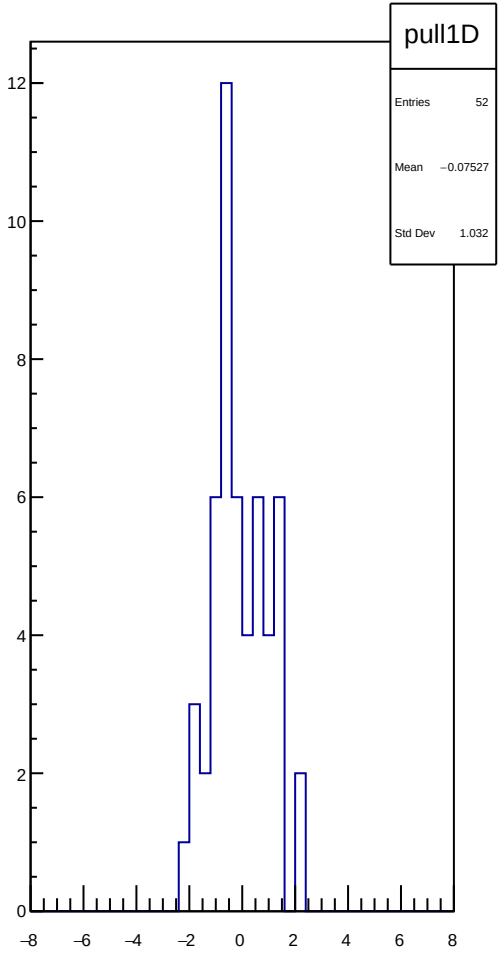

pull1D
Entries 50
Mean −0.03544
Std Dev 1.055

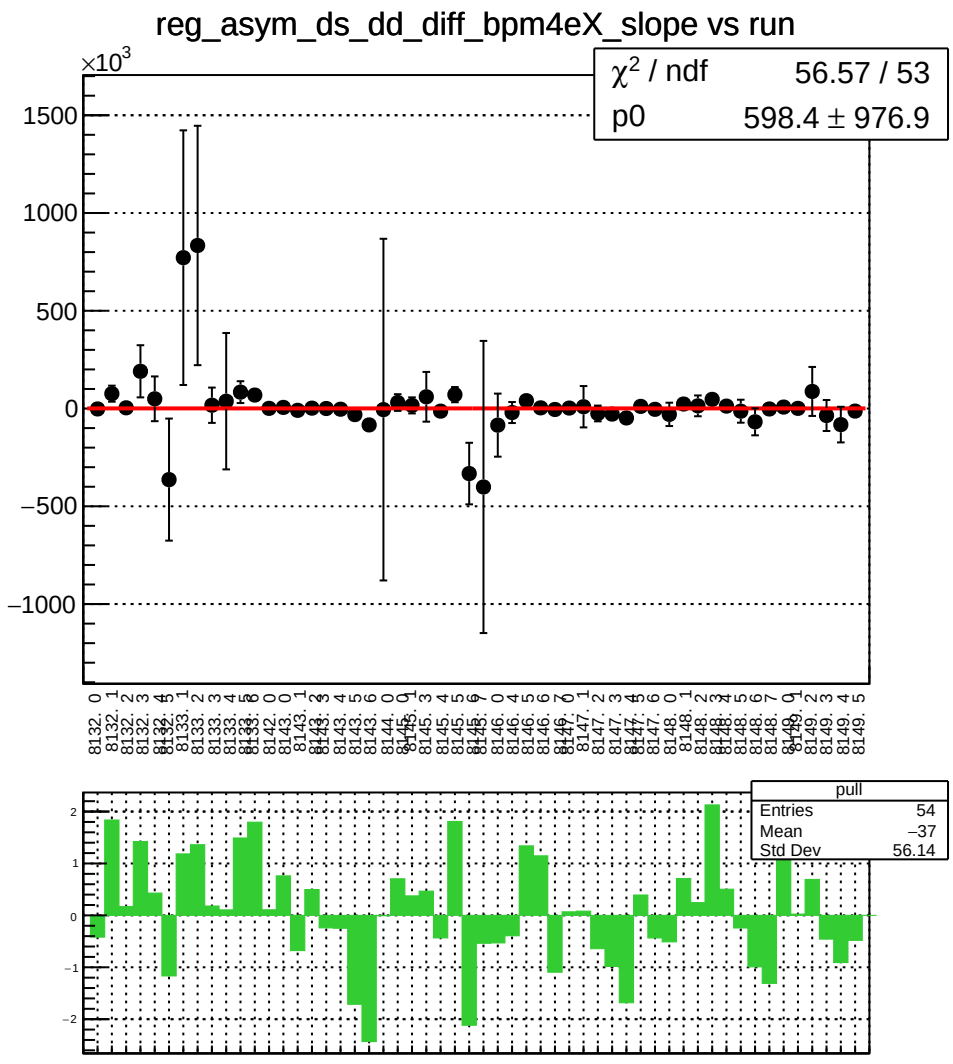

reg_asym_ds_avg_diff_bpm12X_slope vs run
×10^3
χ^2 / ndf 50.44 / 60
p0 −51.76 ± 87.2
pull
Entries 61
Mean 122.4
Std Dev 85.37

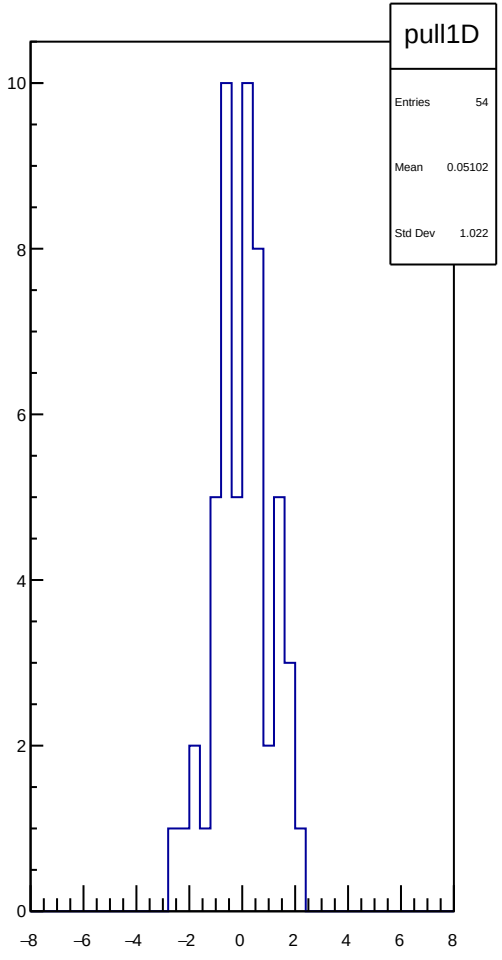

pull1D
Entries 61
Mean 0.03503
Std Dev 0.9086

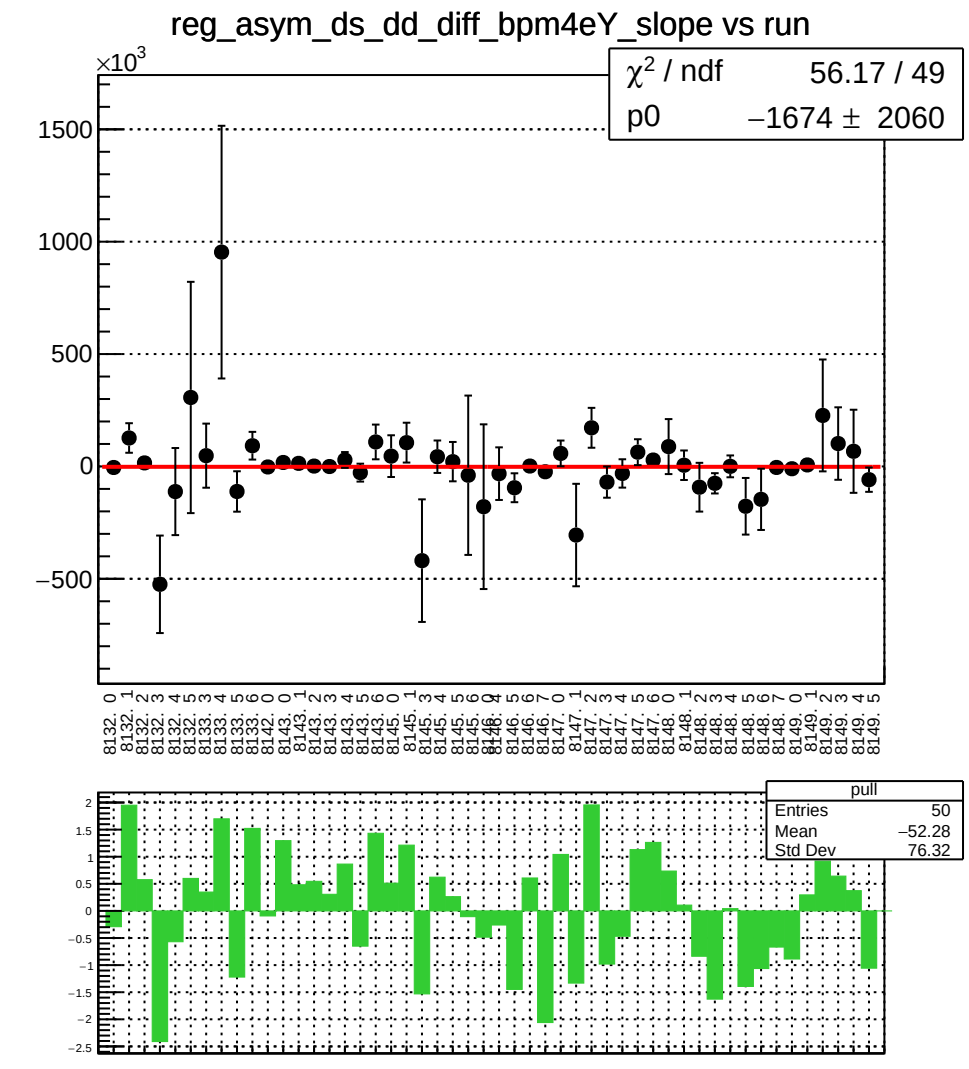

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 53.71 / 53
p0 −536.1 ± 967.1
×10³
1000
500
0
−500
−1000
−1500
pull
Entries 54
Mean −20
Std Dev 36.73
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 54
Mean −0.06276
Std Dev 0.9953
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

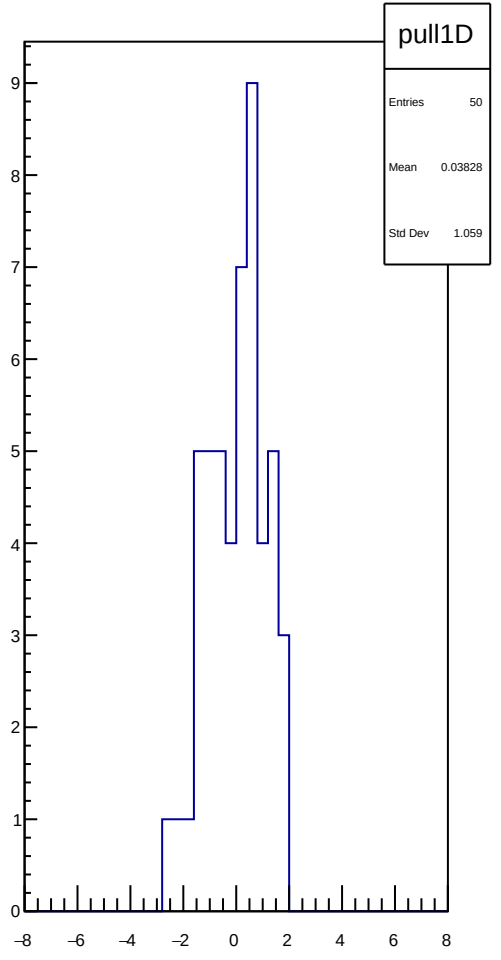

reg_asym_ds_dd_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 55.68 / 51
p0 1335 ± 1925
500
0
−500
−1000
−1500
−2000
pull
Entries 52
Mean −22.47
Std Dev 46.92
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

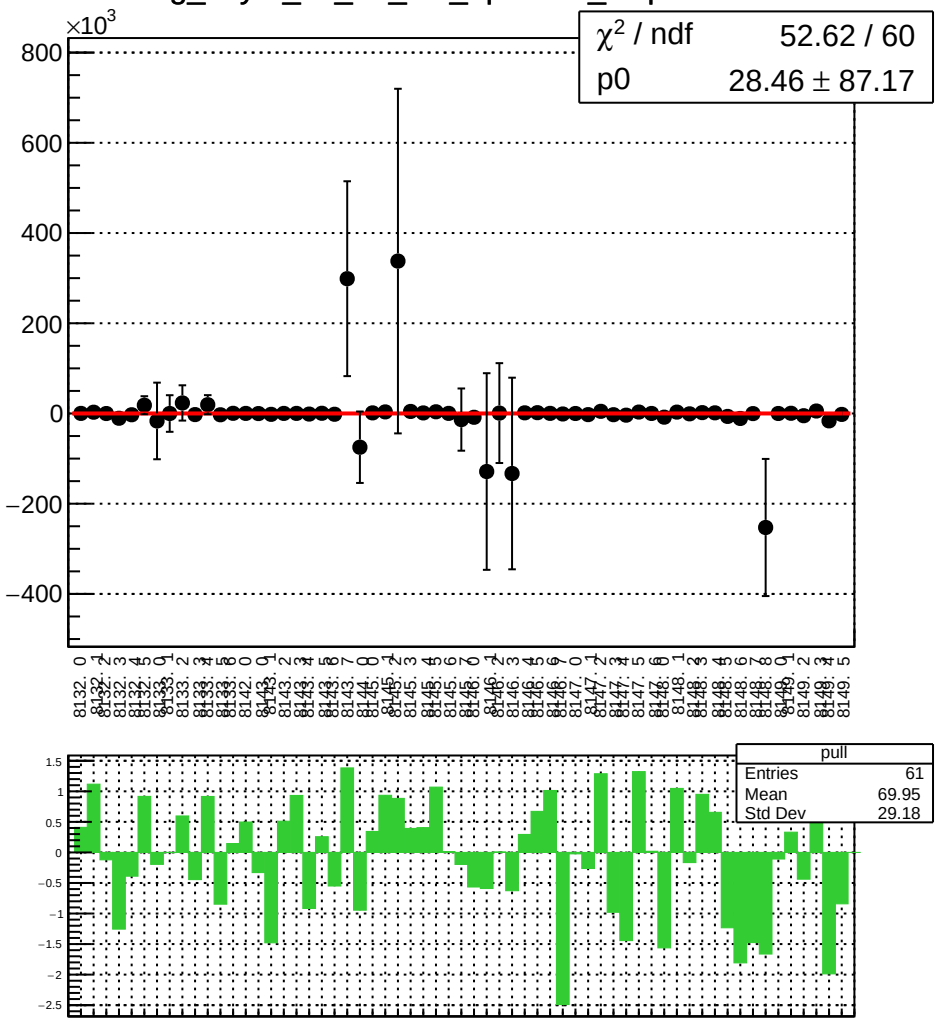

pull1D
Entries 52
Mean −0.07527
Std Dev 1.032
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

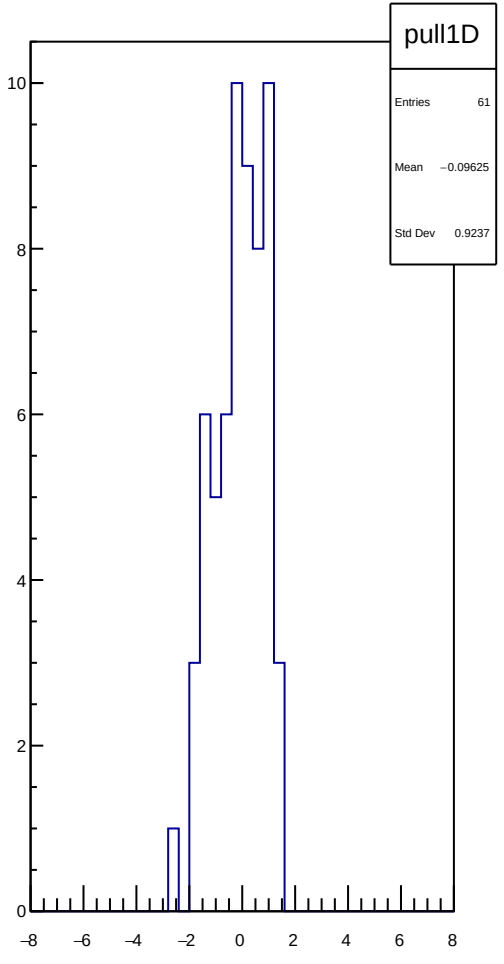

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 56.57 / 53
p0 598.4 ± 976.9
×10³
1500
1000
500
0
−500
−1000
pull
Entries 54
Mean −37
Std Dev 56.14
2
1
0
−1
−2

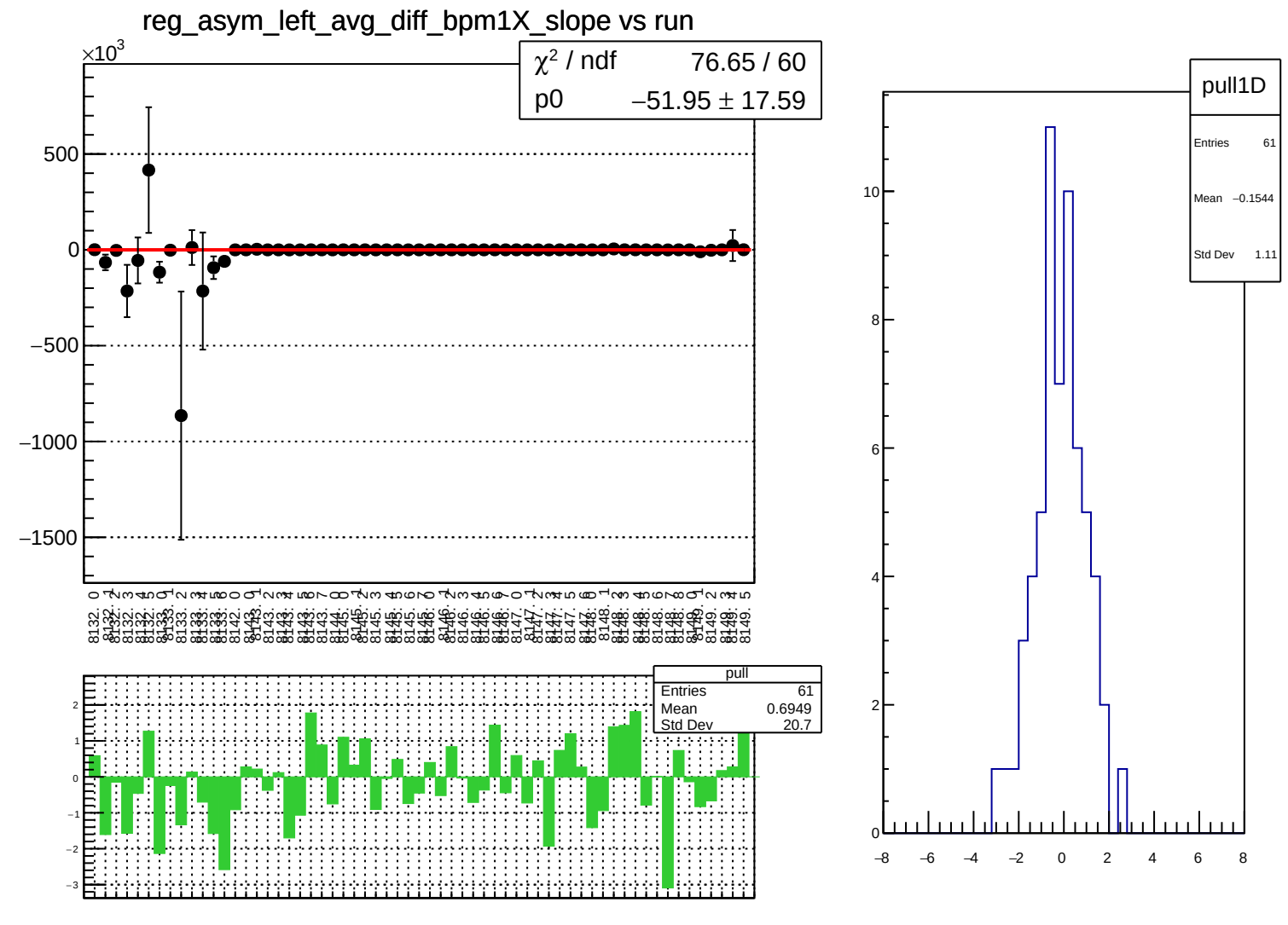

pull1D
Entries 54
Mean 0.05102
Std Dev 1.022
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

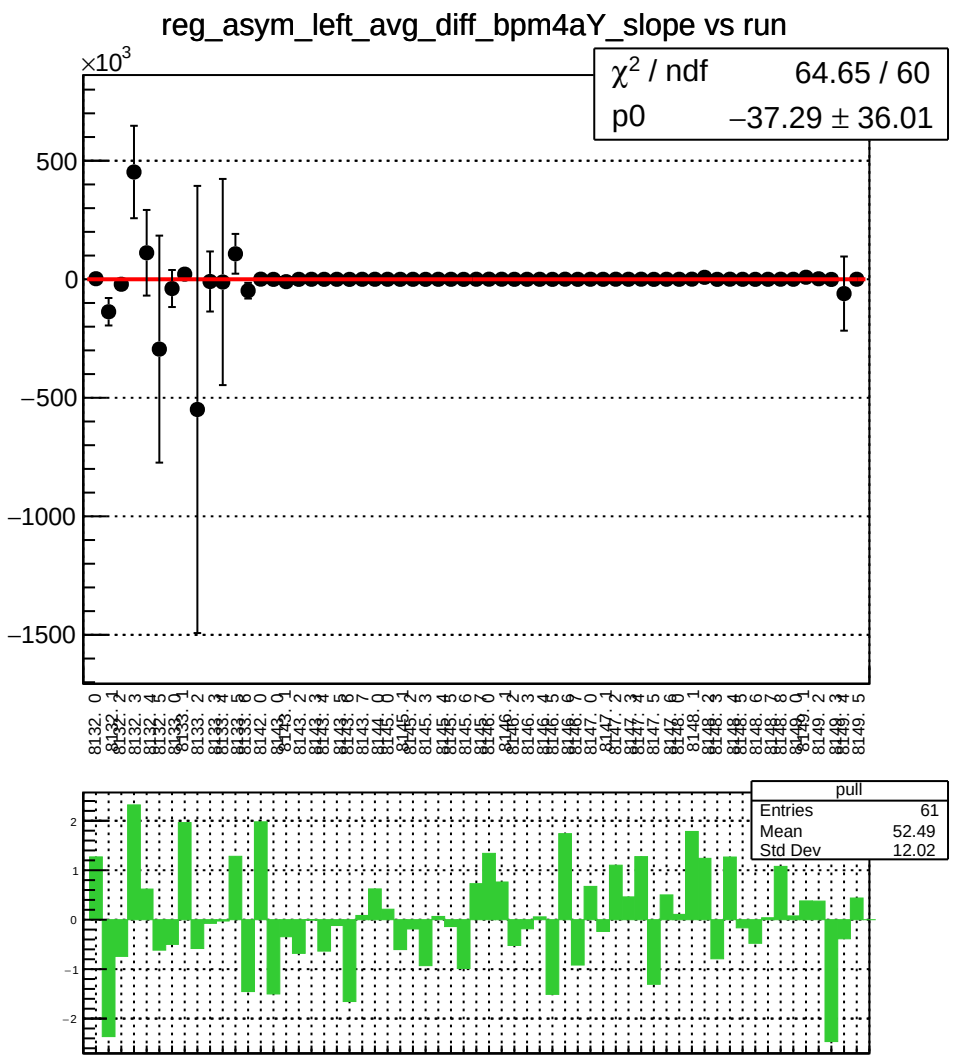

reg_asym_ds_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 56.17 / 49
p0 −1674 ± 2060
1500
1000
500
0
−500
pull
Entries 50
Mean −52.28
Std Dev 76.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

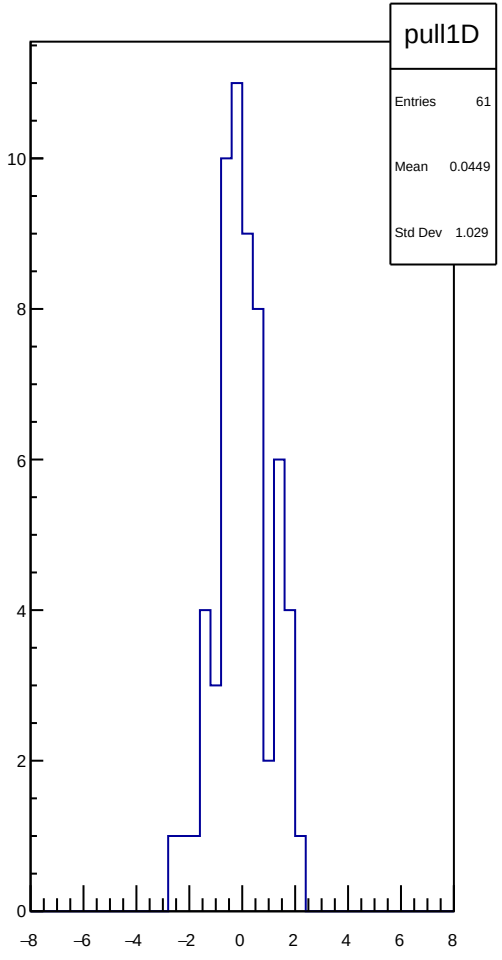

pull1D
Entries 50
Mean 0.03828
Std Dev 1.059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

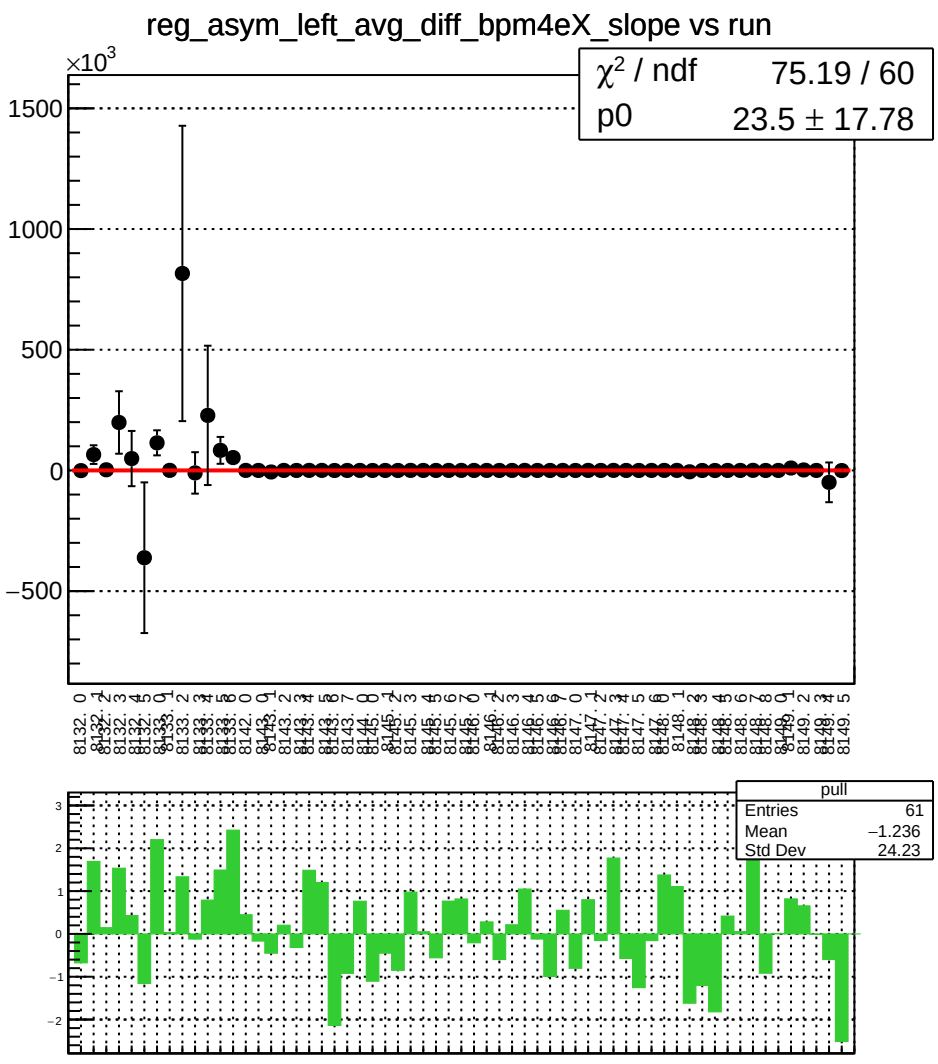

reg_asym_ds_dd_diff_bpm12X_slope vs run
×10^3
χ² / ndf 52.62 / 60
p0 28.46 ± 87.17
pull
Entries 61
Mean 69.95
Std Dev 29.18

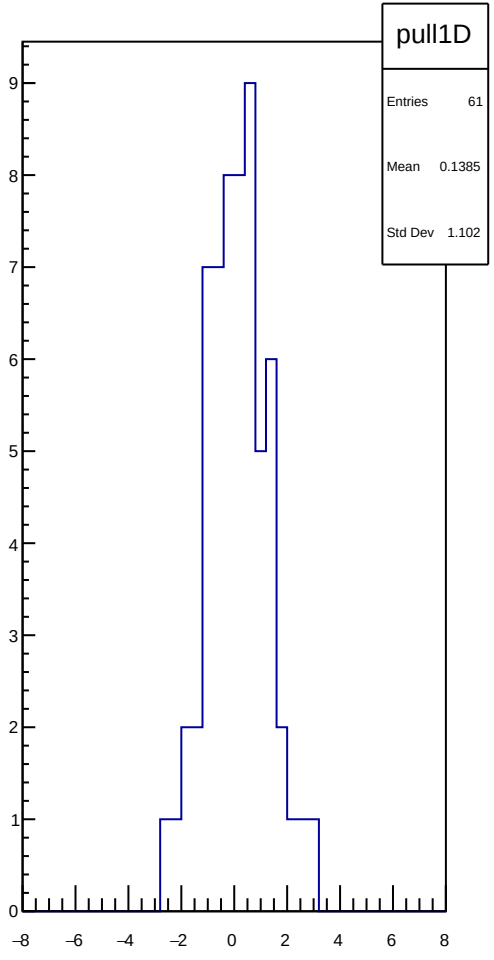

pull1D
Entries 61
Mean −0.09625
Std Dev 0.9237

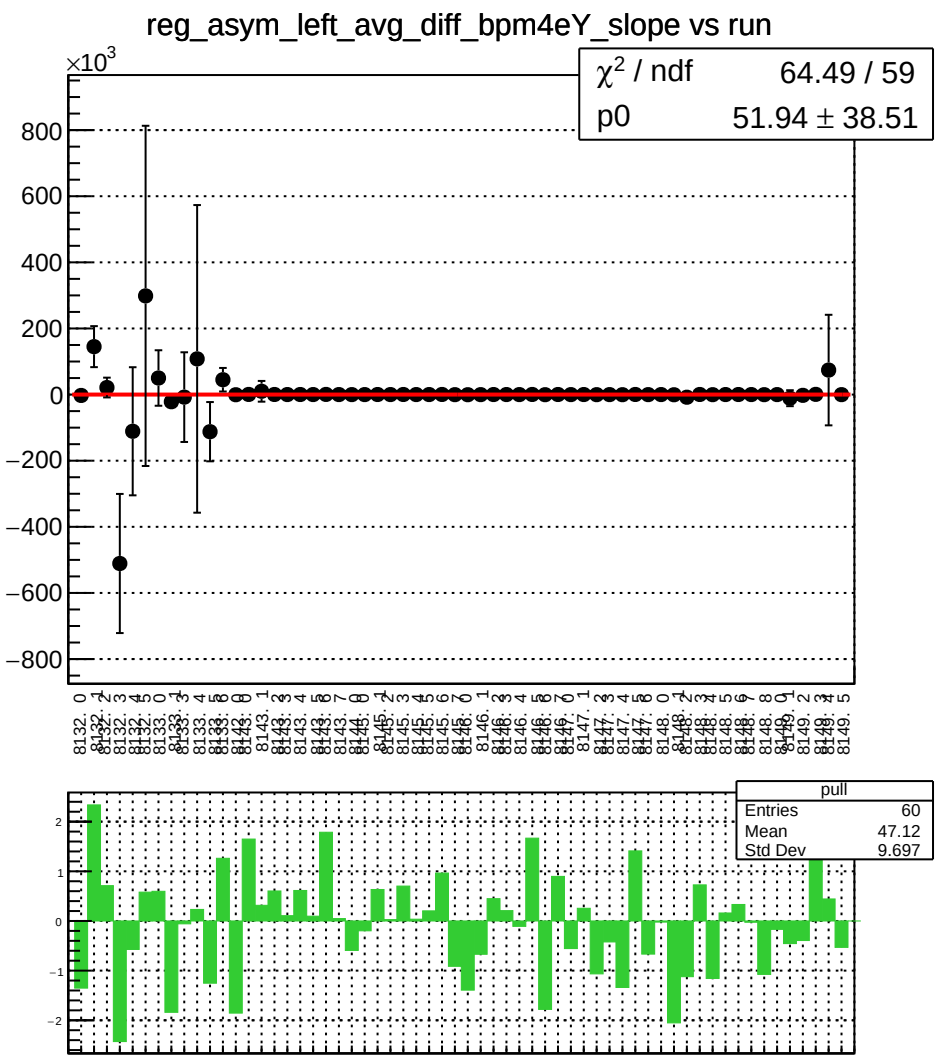

reg_asym_left_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 76.65 / 60
p0 −51.95 ± 17.59
500
0
−500
−1000
−1500
pull
Entries 61
Mean 0.6949
Std Dev 20.7
pull1D
Entries 61
Mean −0.1544
Std Dev 1.11

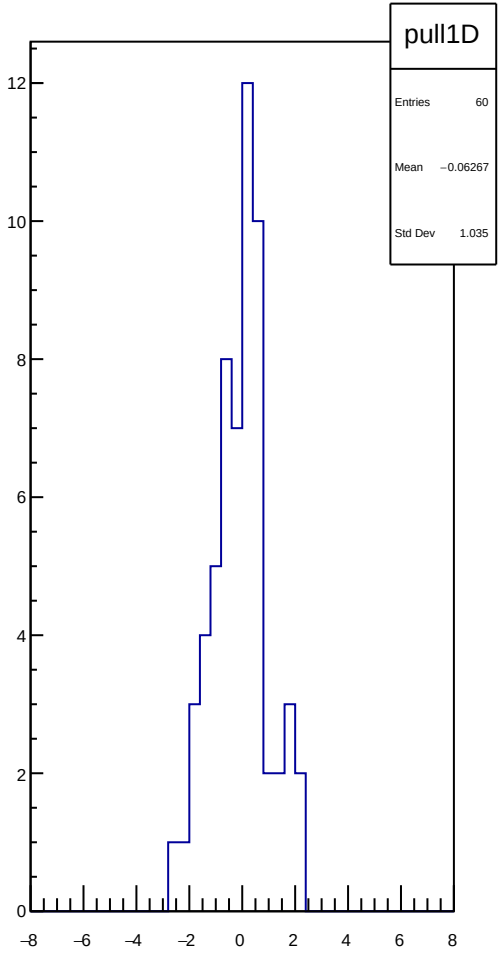

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 64.65 / 60
p0 −37.29 ± 36.01
×10³
500
0
−500
−1000
−1500
pull
Entries 61
Mean 52.49
Std Dev 12.02
2
1
0
−1
−2

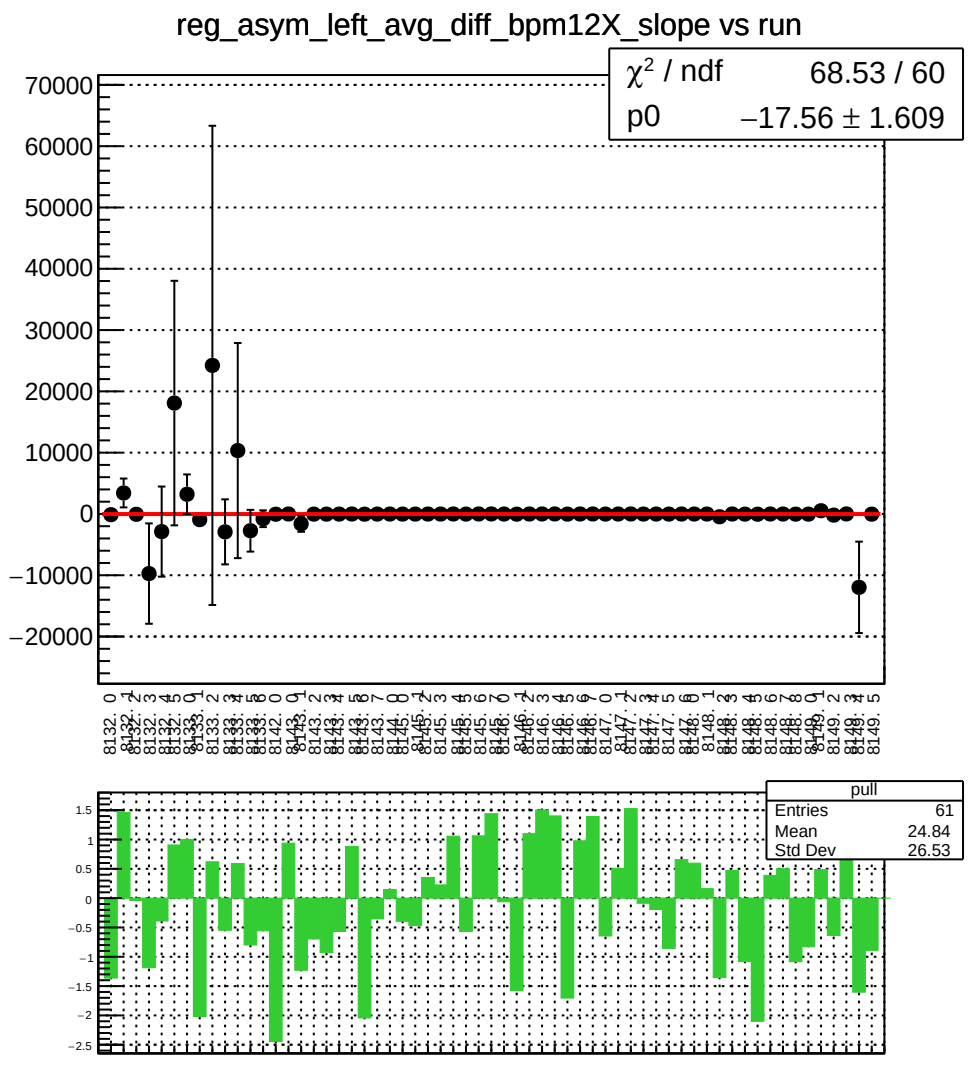

pull1D
Entries 61
Mean 0.0449
Std Dev 1.029
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

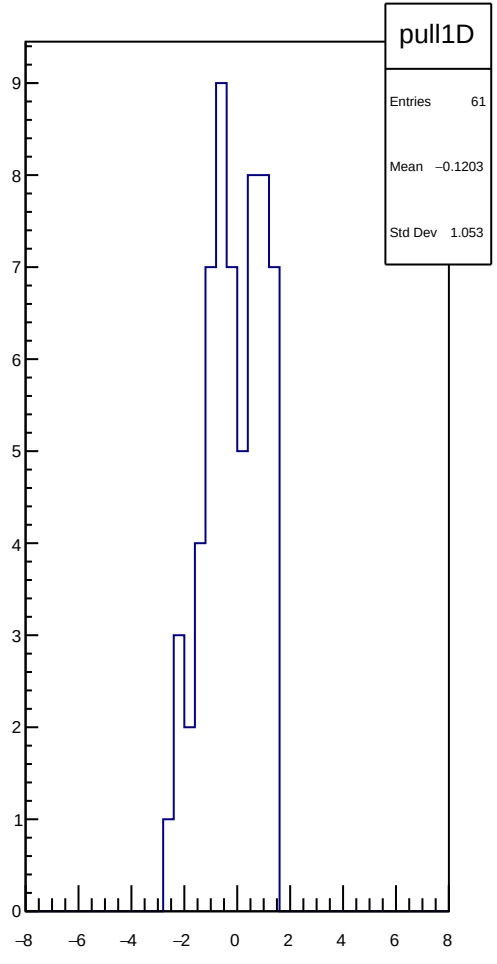

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 75.19 / 60
p0 23.5 ± 17.78
×10³
1500
1000
500
0
−500
pull
Entries 61
Mean −1.236
Std Dev 24.23

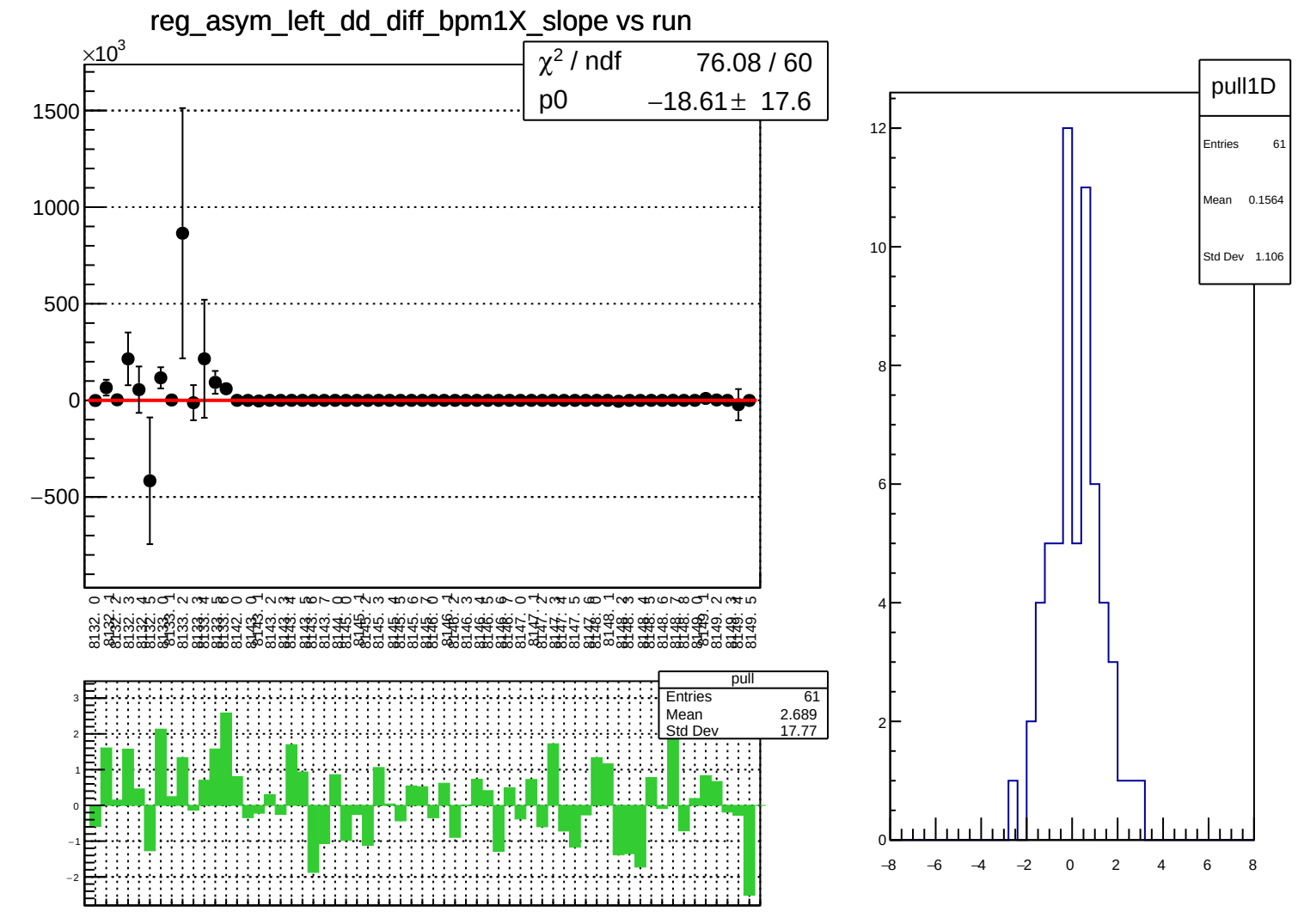

pull1D
Entries 61
Mean 0.1385
Std Dev 1.102

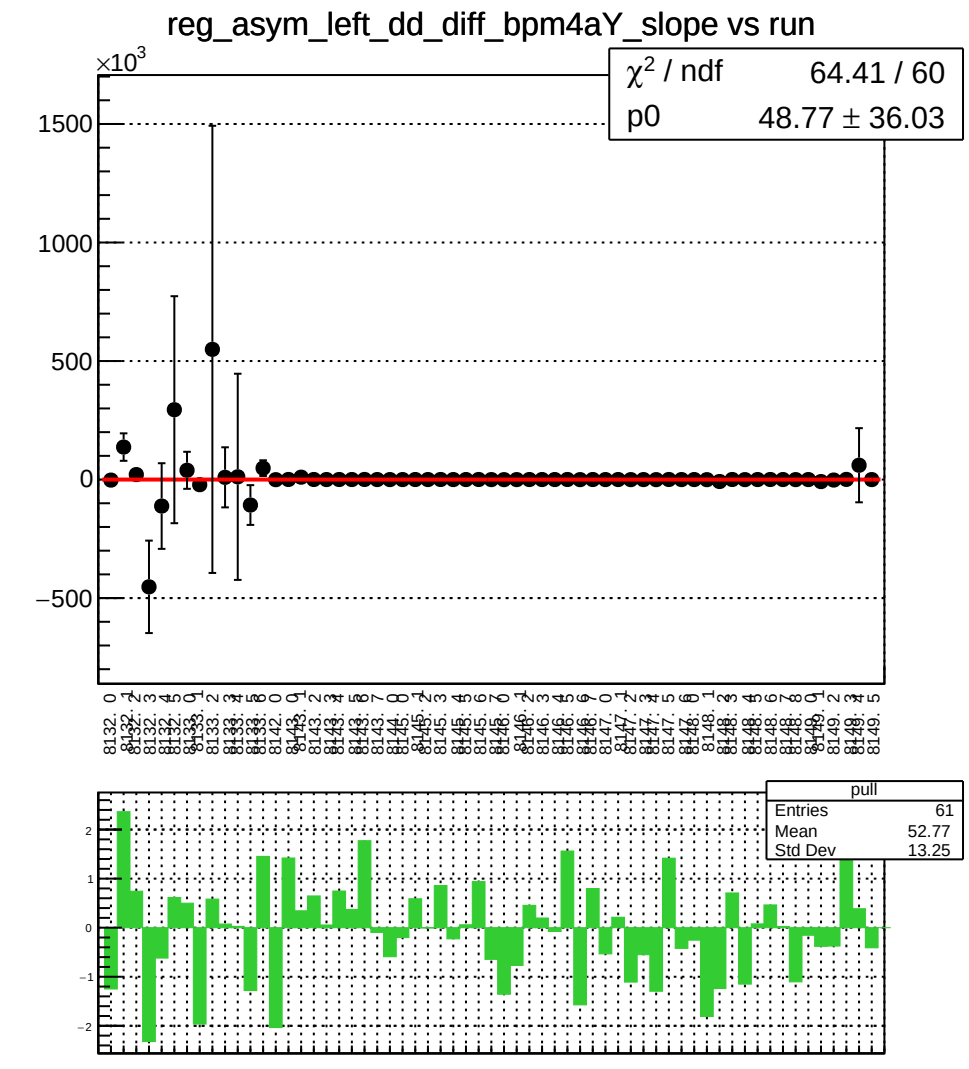

reg_asym_left_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 64.49 / 59
p0 51.94 ± 38.51
pull
Entries 60
Mean 47.12
Std Dev 9.697

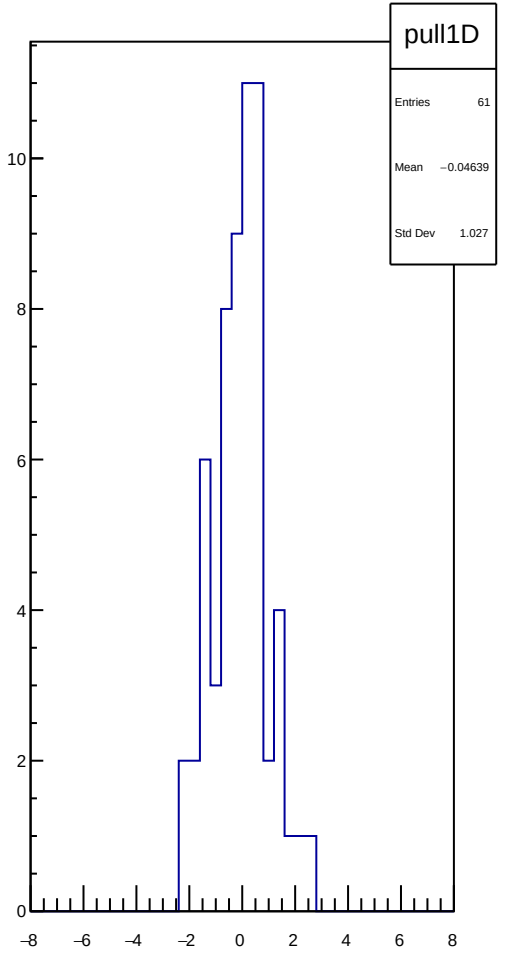

pull1D
Entries 60
Mean −0.06267
Std Dev 1.035

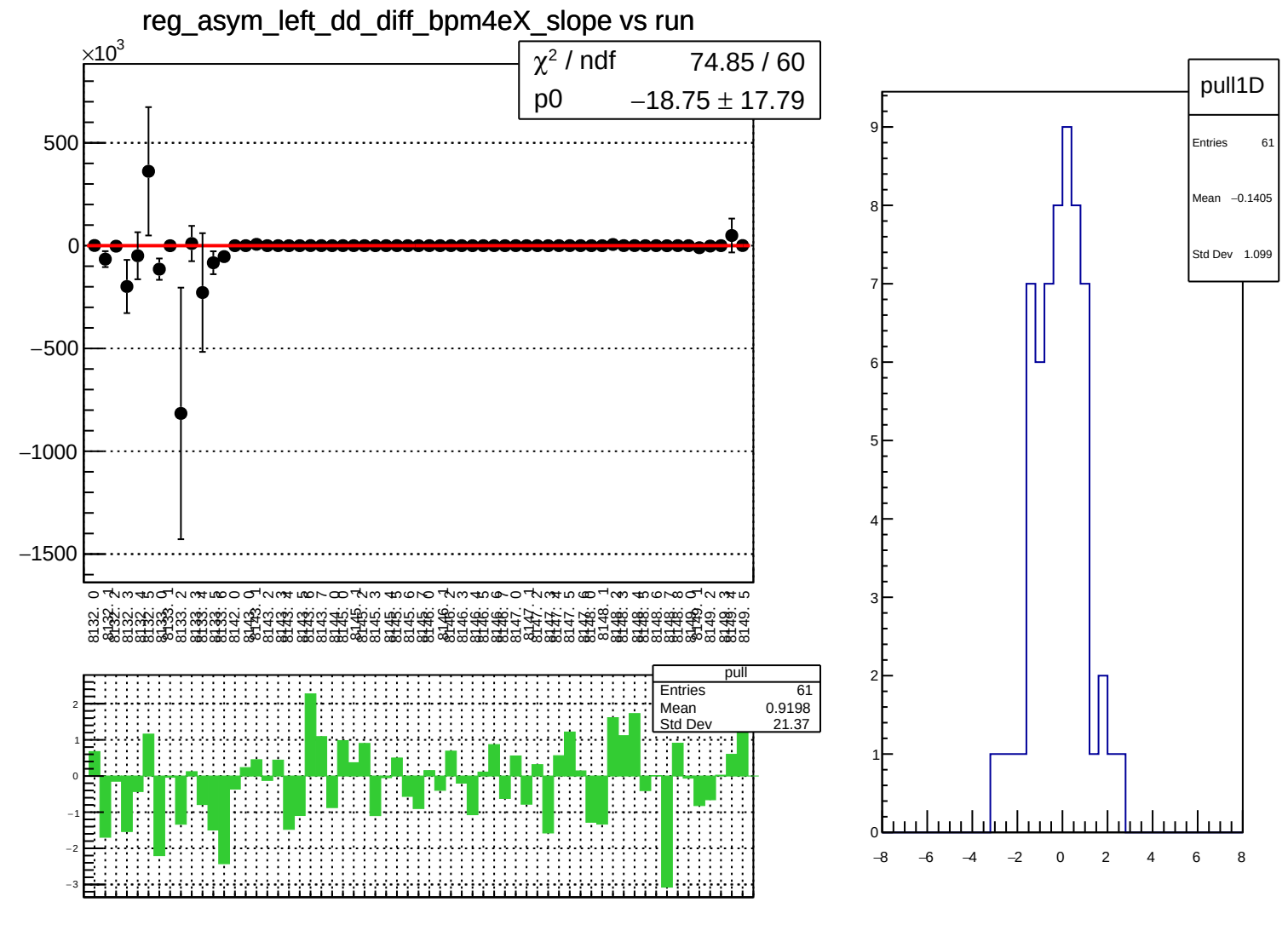

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 68.53 / 60
p0 −17.56 ± 1.609
pull
Entries 61
Mean 24.84
Std Dev 26.53

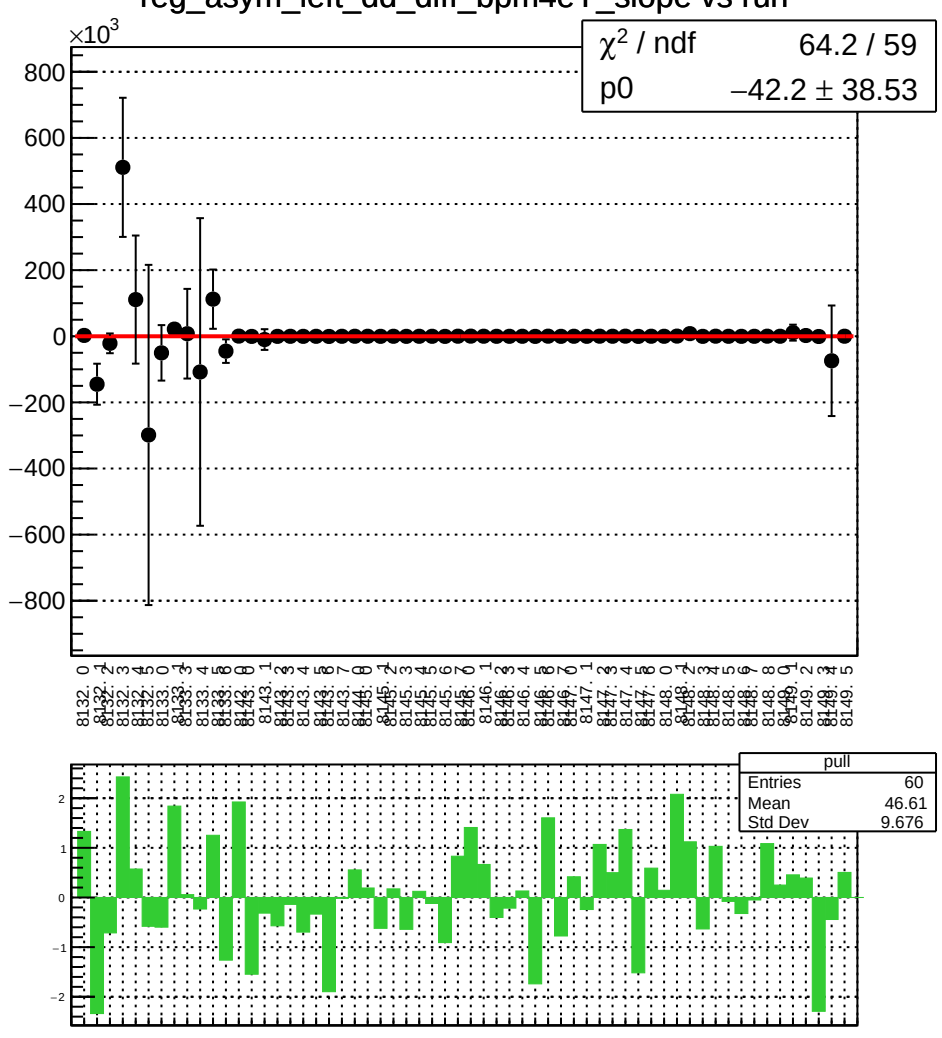

pull1D
Entries 61
Mean −0.1203
Std Dev 1.053

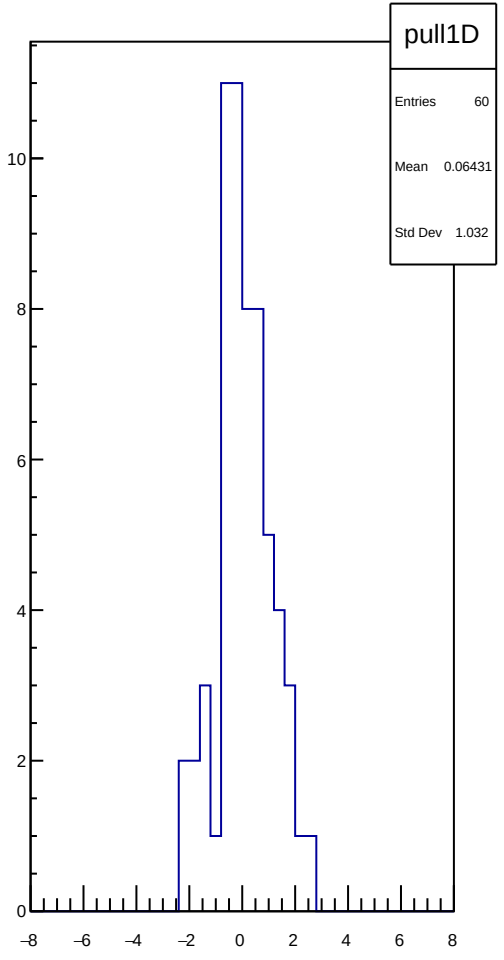

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 76.08 / 60
p0 −18.61± 17.6
×10³
1500
1000
500
0
−500
pull
Entries 61
Mean 2.689
Std Dev 17.77
pull1D
Entries 61
Mean 0.1564
Std Dev 1.106
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

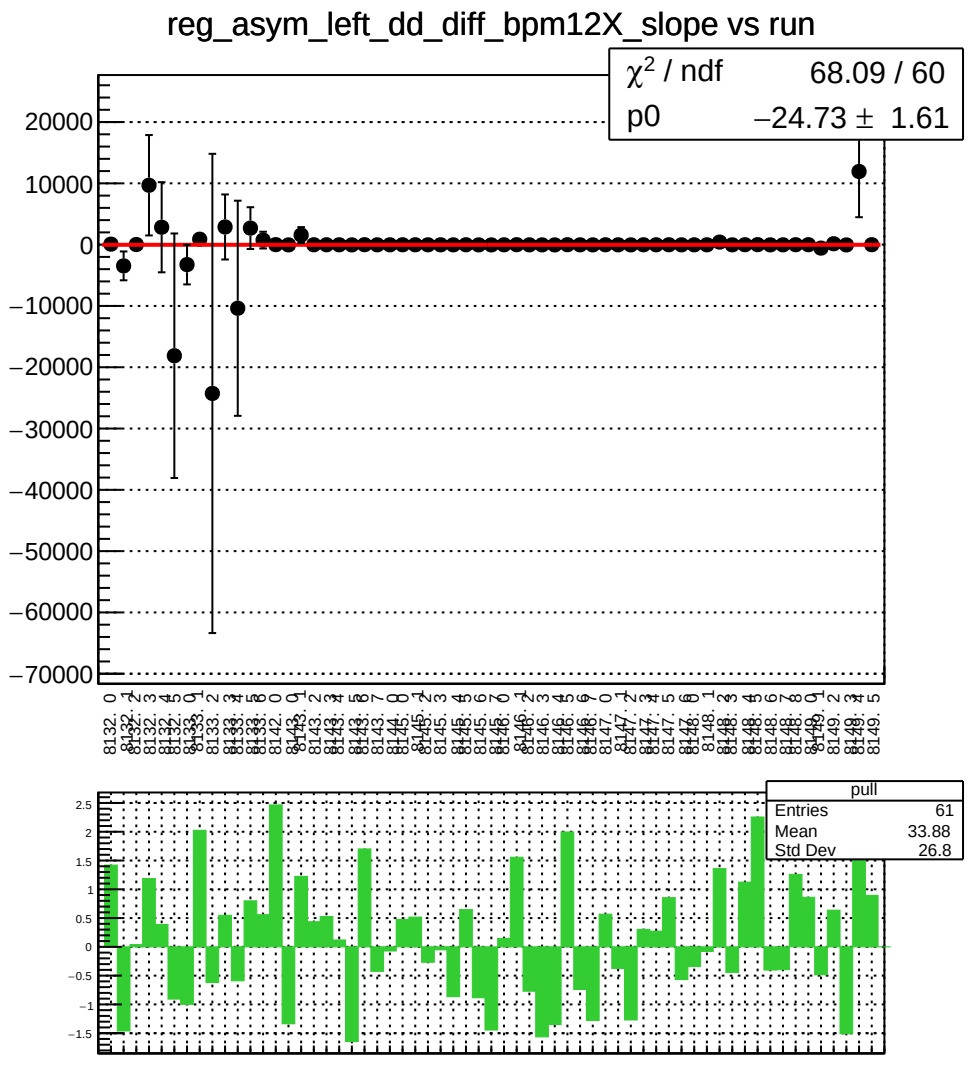

reg_asym_left_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 64.41 / 60
p0 48.77 ± 36.03
1500
1000
500
0
−500
pull
Entries 61
Mean 52.77
Std Dev 13.25
2
1
0
−1
−2

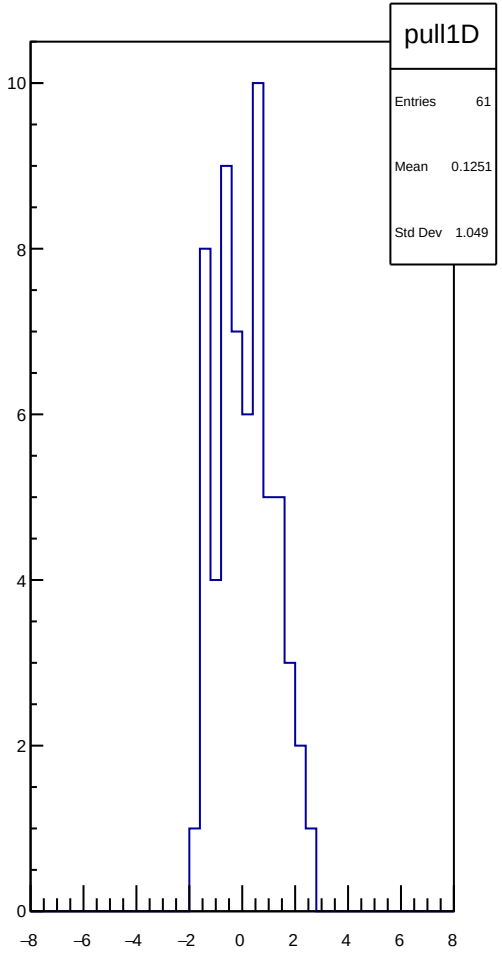

pull1D
Entries 61
Mean −0.04639
Std Dev 1.027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

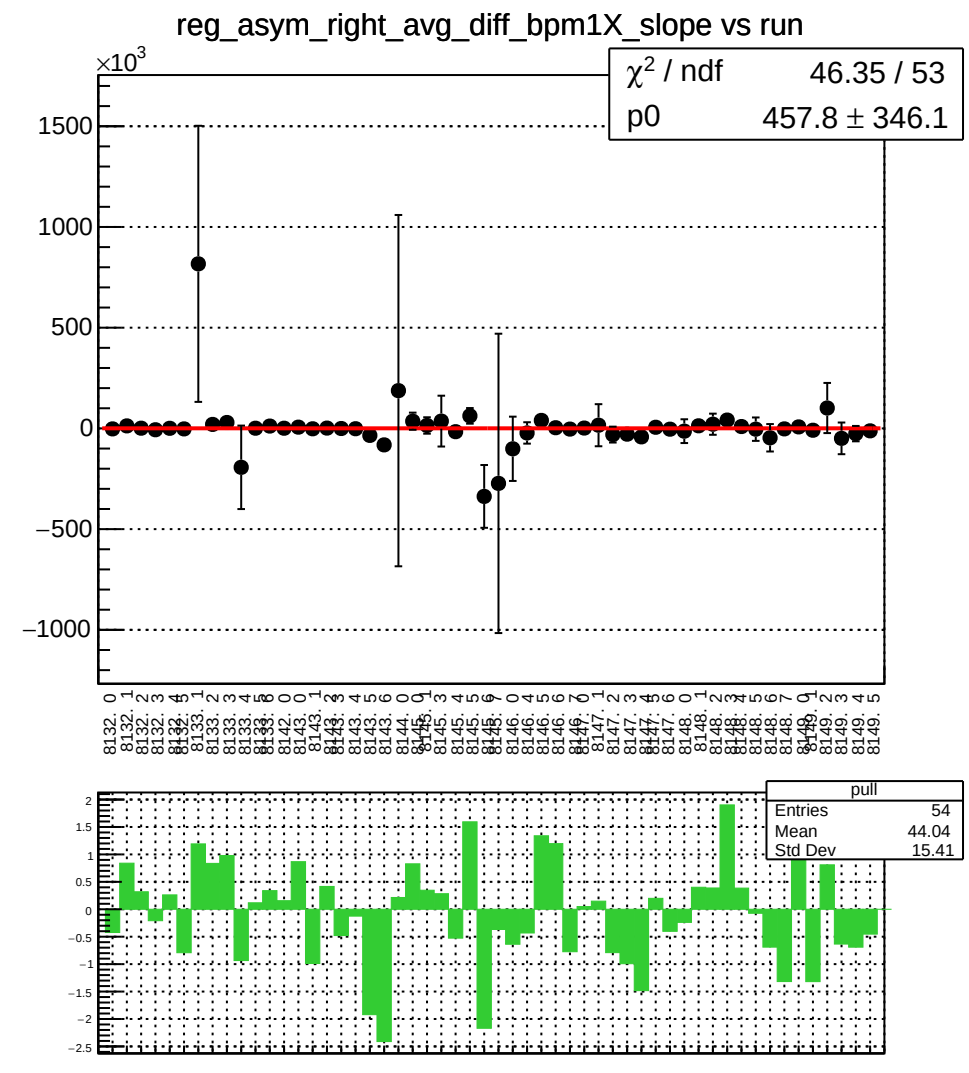

reg_asym_left_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 74.85 / 60
p0 −18.75 ± 17.79
500
0
−500
−1000
−1500
pull
Entries 61
Mean 0.9198
Std Dev 21.37
pull1D
Entries 61
Mean −0.1405
Std Dev 1.099

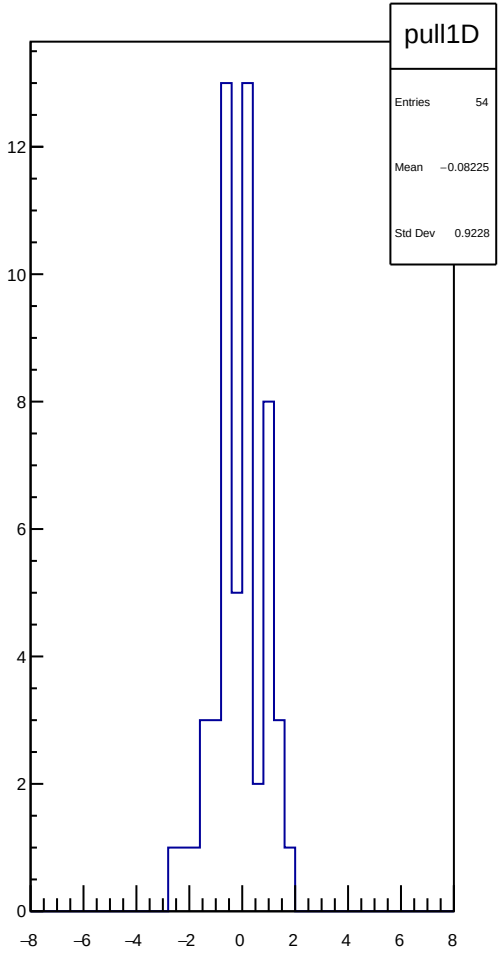

reg_asym_left_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 64.2 / 59
p0 −42.2 ± 38.53
pull
Entries 60
Mean 46.61
Std Dev 9.676

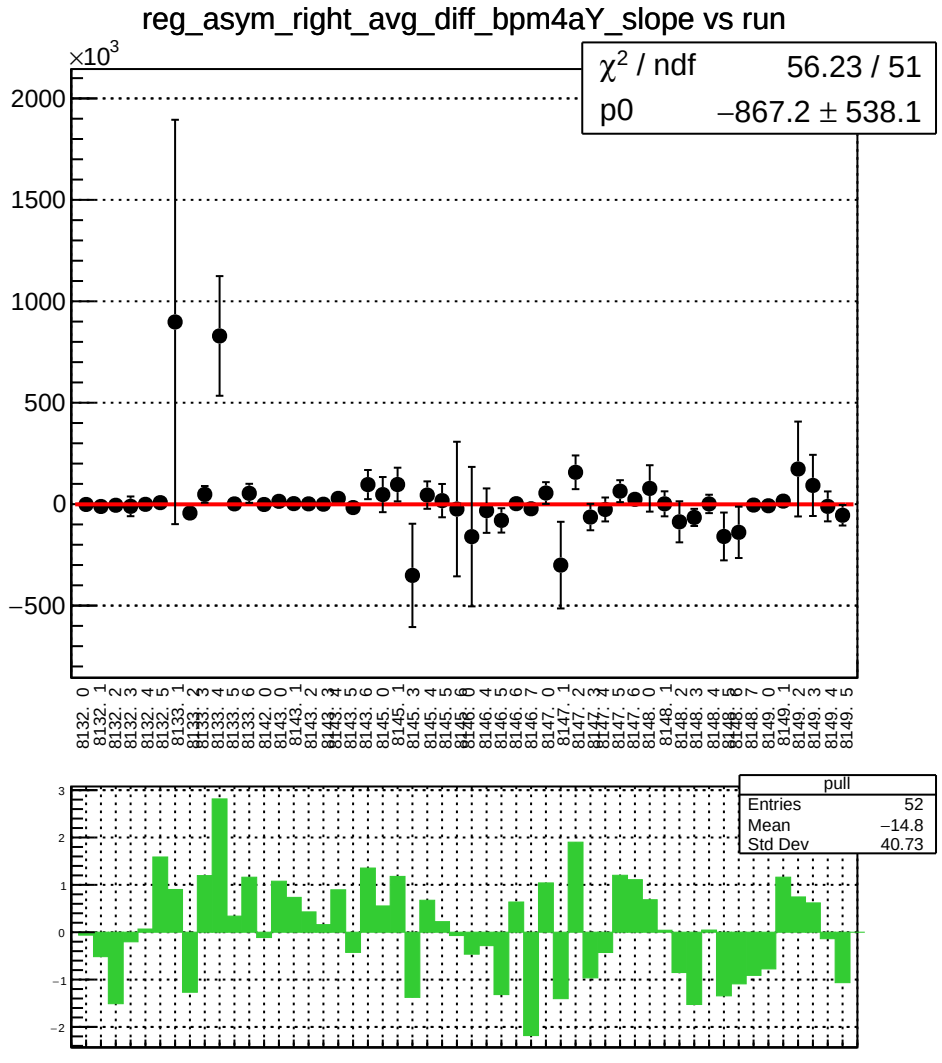

pull1D
Entries 60
Mean 0.06431
Std Dev 1.032

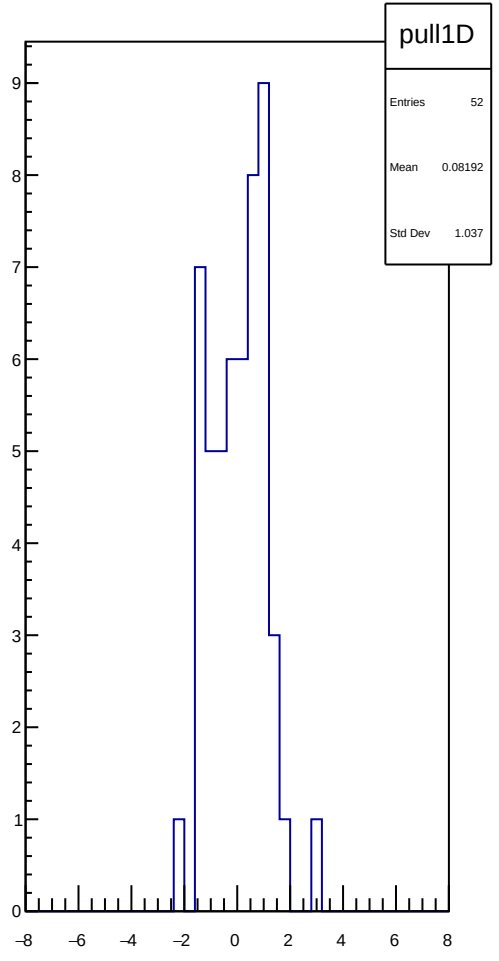

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 68.09 / 60
p0 −24.73 ± 1.61
pull
Entries 61
Mean 33.88
Std Dev 26.8

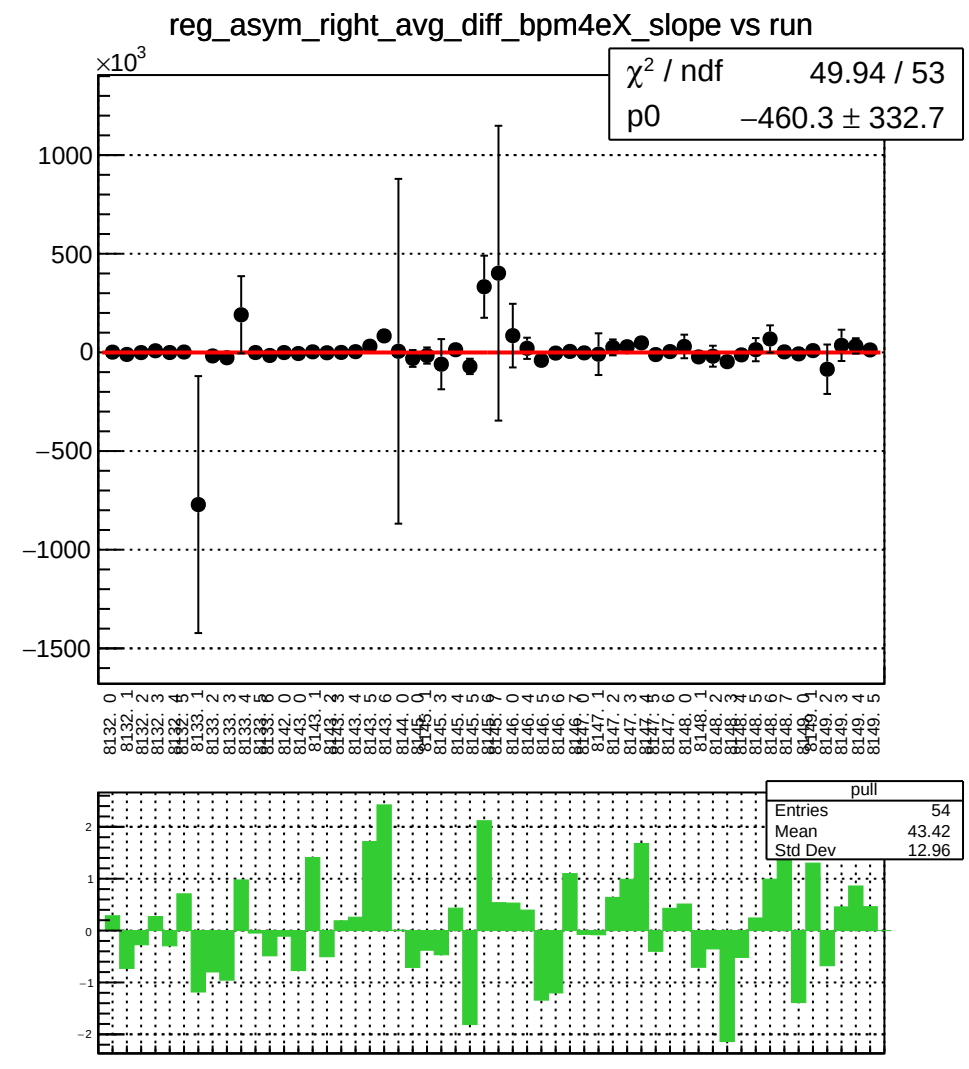

pull1D
Entries 61
Mean 0.1251
Std Dev 1.049

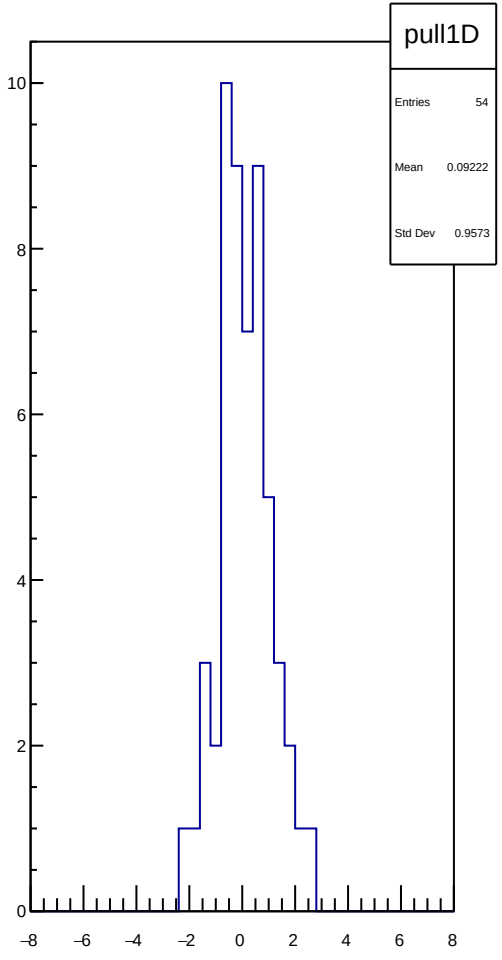

reg_asym_right_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 46.35 / 53
p0 457.8 ± 346.1
1500
1000
500
0
−500
−1000
pull
Entries 54
Mean 44.04
Std Dev 15.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

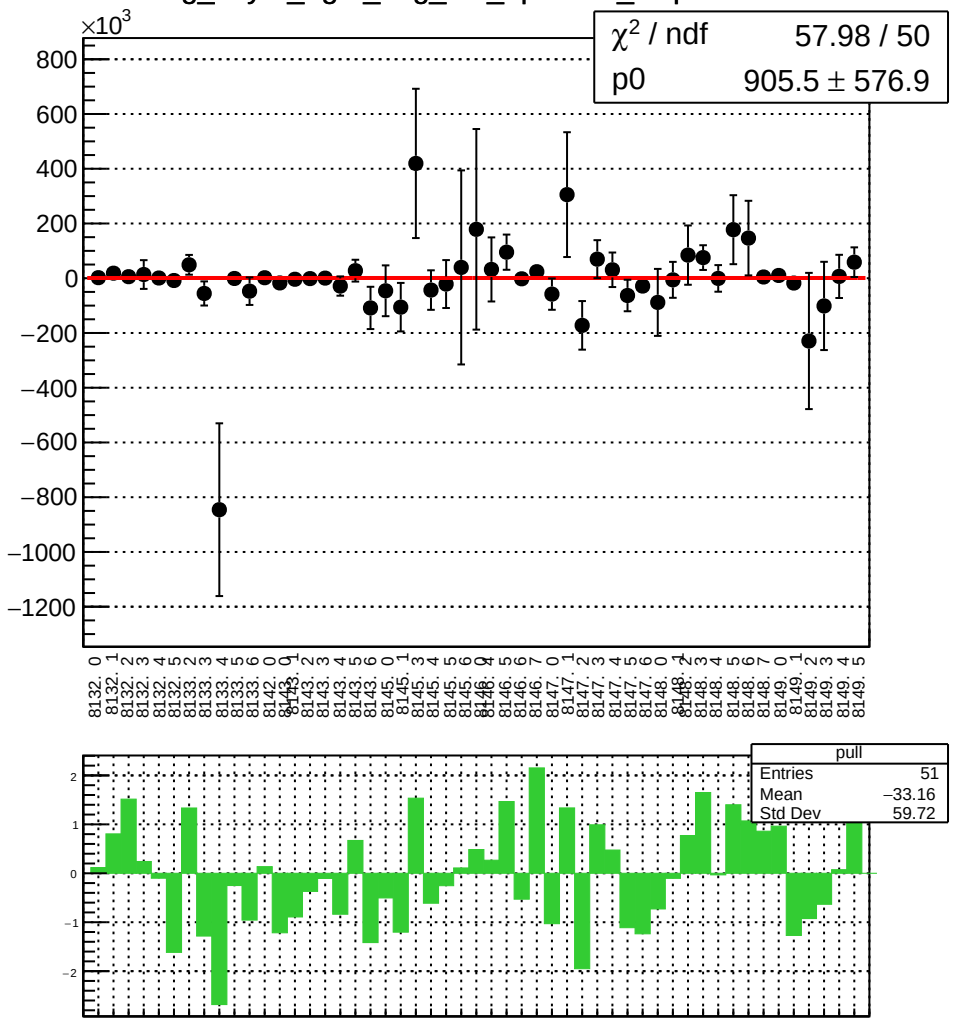

pull1D
Entries 54
Mean −0.08225
Std Dev 0.9228
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

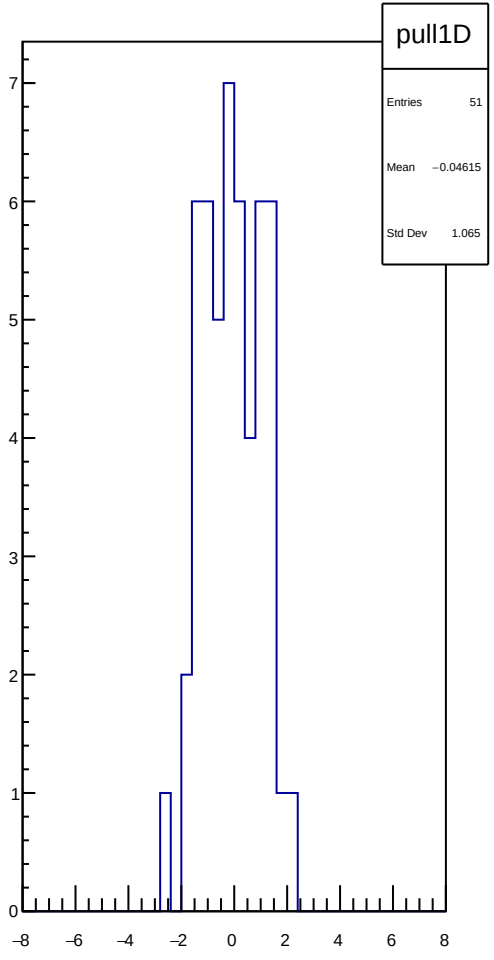

reg_asym_right_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 56.23 / 51
p0 −867.2 ± 538.1
2000
1500
1000
500
0
−500
pull
Entries 52
Mean −14.8
Std Dev 40.73
3
2
1
0
−1
−2

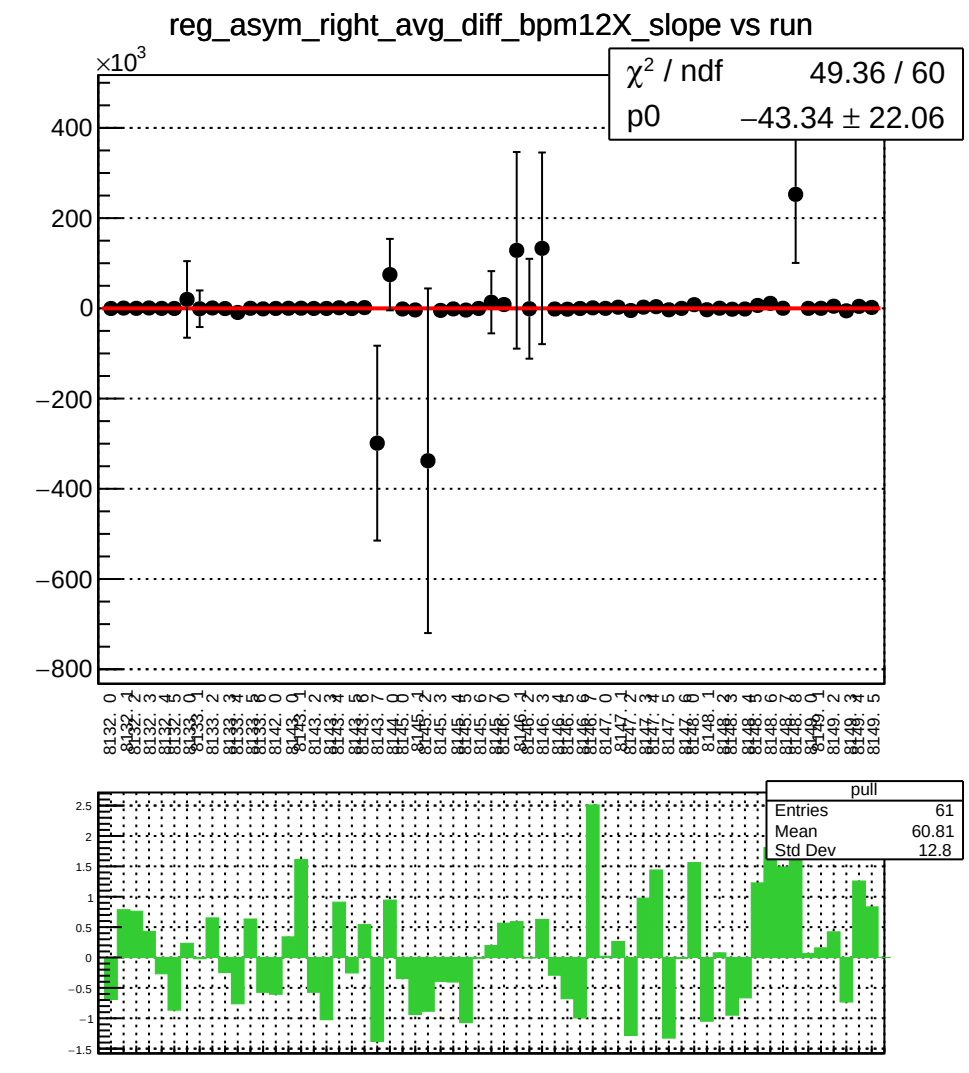

pull1D
Entries 52
Mean 0.08192
Std Dev 1.037
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

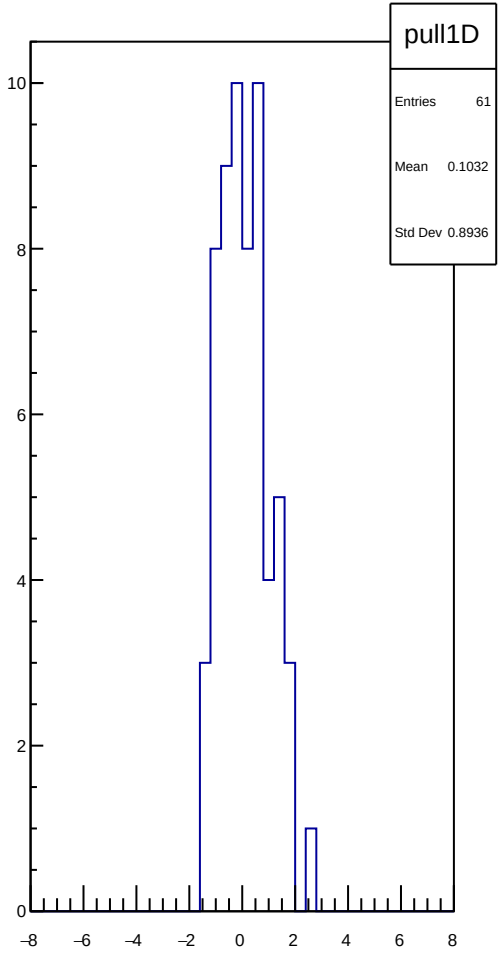

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.94 / 53
p0 −460.3 ± 332.7
×10³
1000
500
0
−500
−1000
−1500
pull
Entries 54
Mean 43.42
Std Dev 12.96
2
1
0
−1
−2

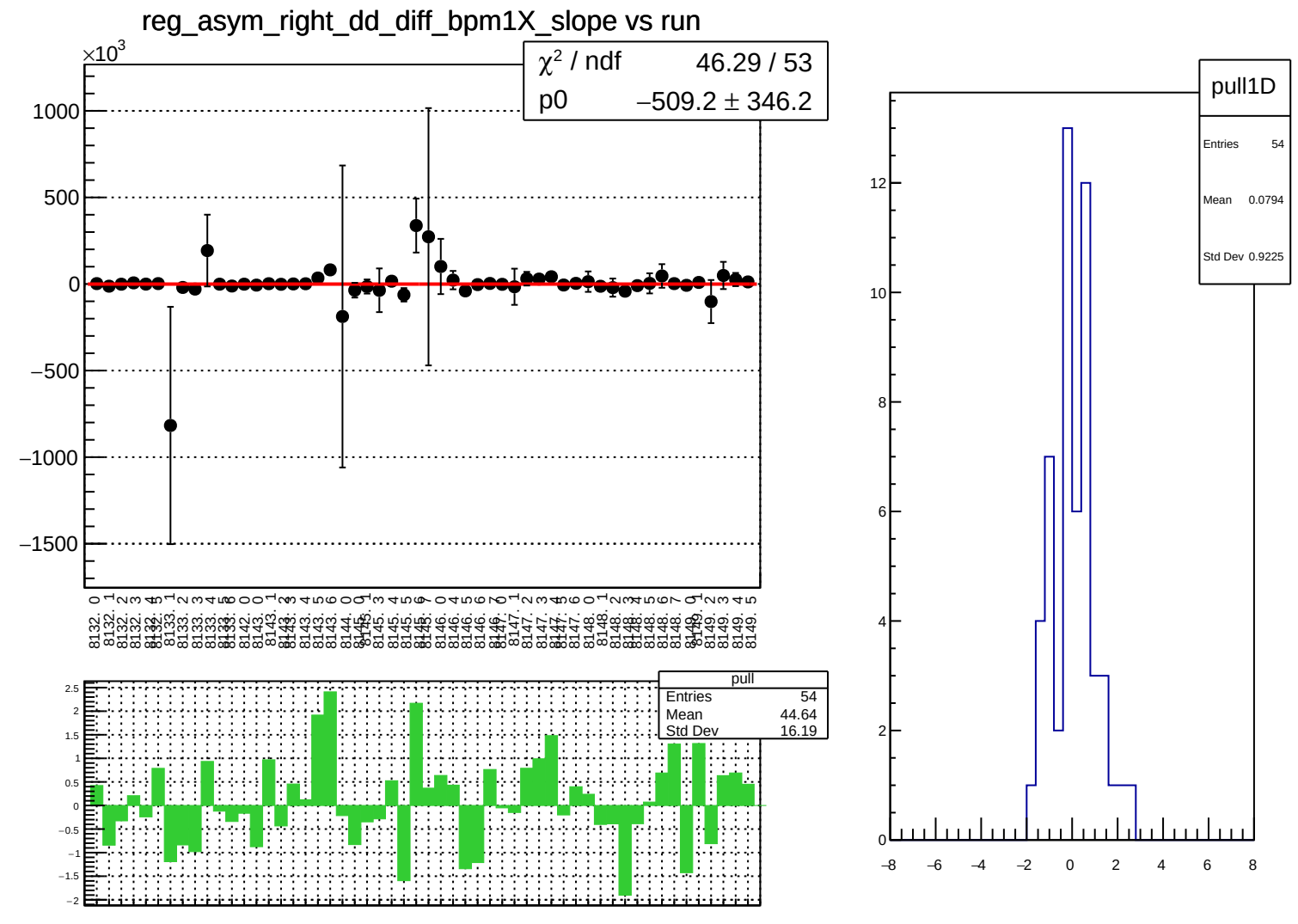

pull1D
Entries 54
Mean 0.09222
Std Dev 0.9573
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

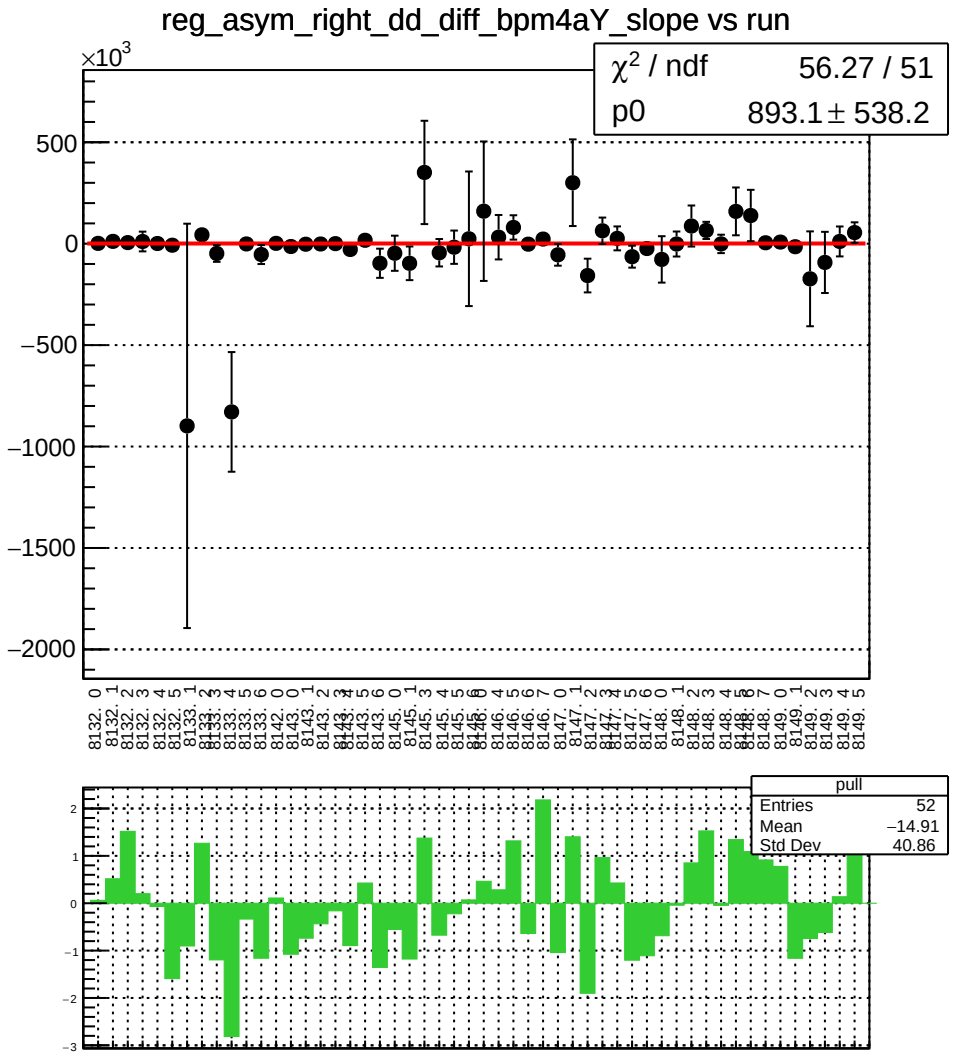

reg_asym_right_avg_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 57.98 / 50
p0 905.5 ± 576.9
pull
Entries 51
Mean −33.16
Std Dev 59.72

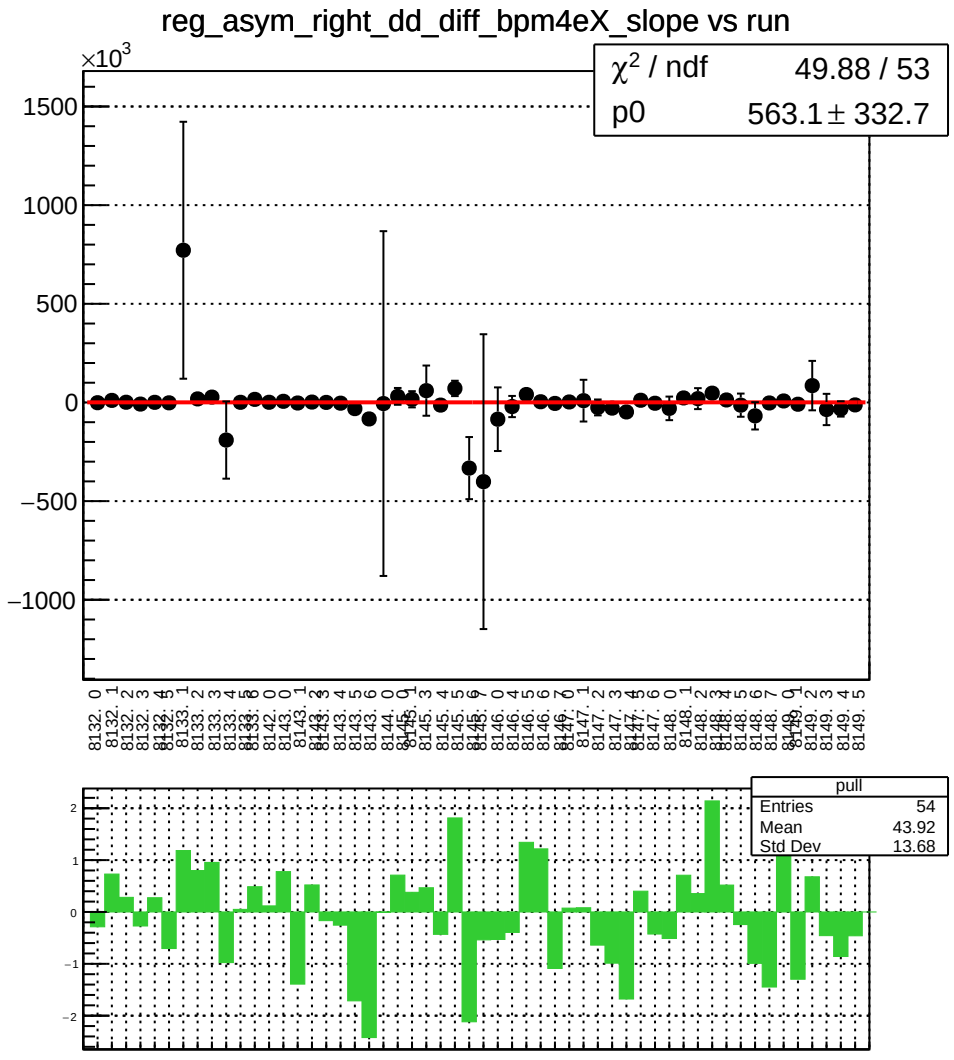

pull1D
Entries 51
Mean −0.04615
Std Dev 1.065

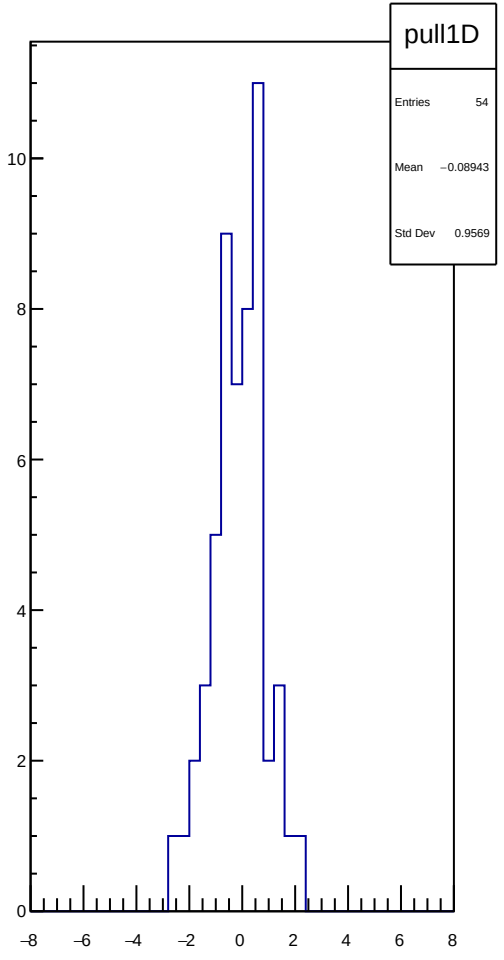

reg_asym_right_avg_diff_bpm12X_slope vs run
×10^3
χ² / ndf 49.36 / 60
p0 −43.34 ± 22.06
pull
Entries 61
Mean 60.81
Std Dev 12.8

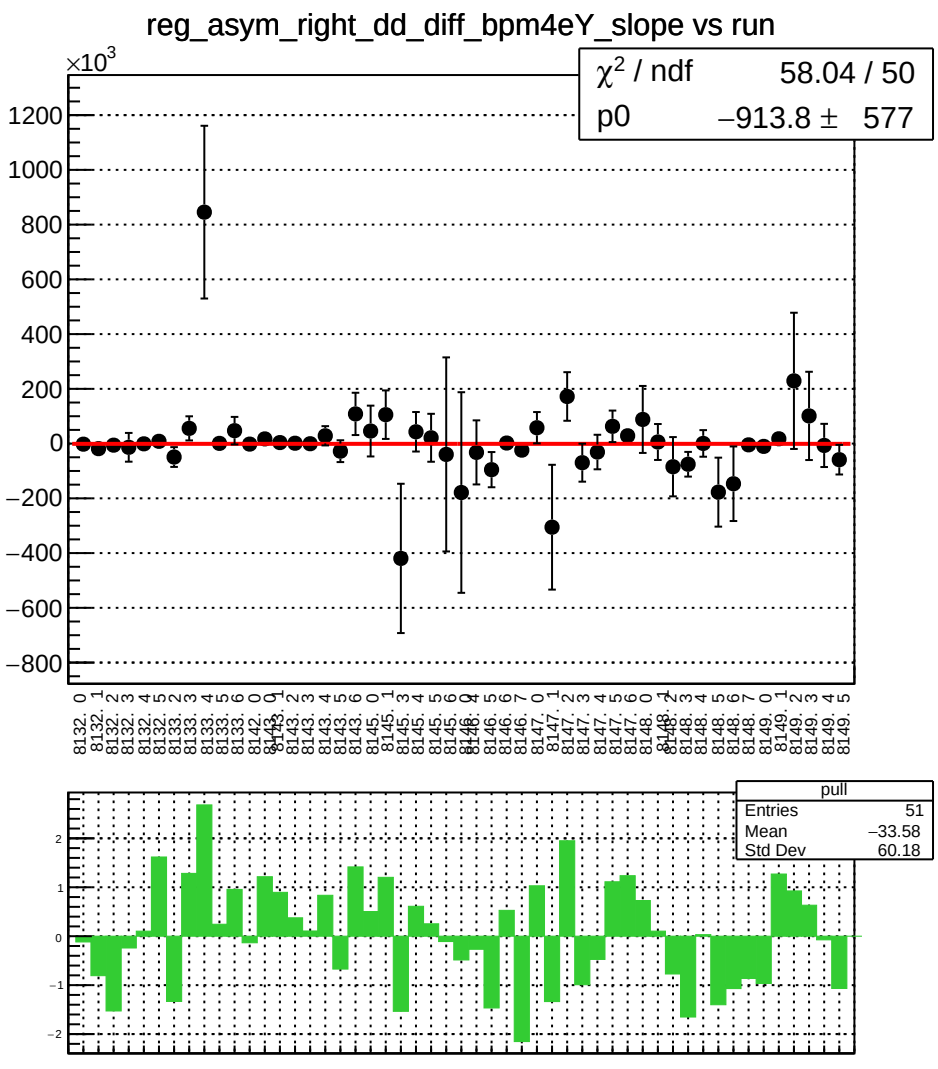

pull1D
Entries 61
Mean 0.1032
Std Dev 0.8936

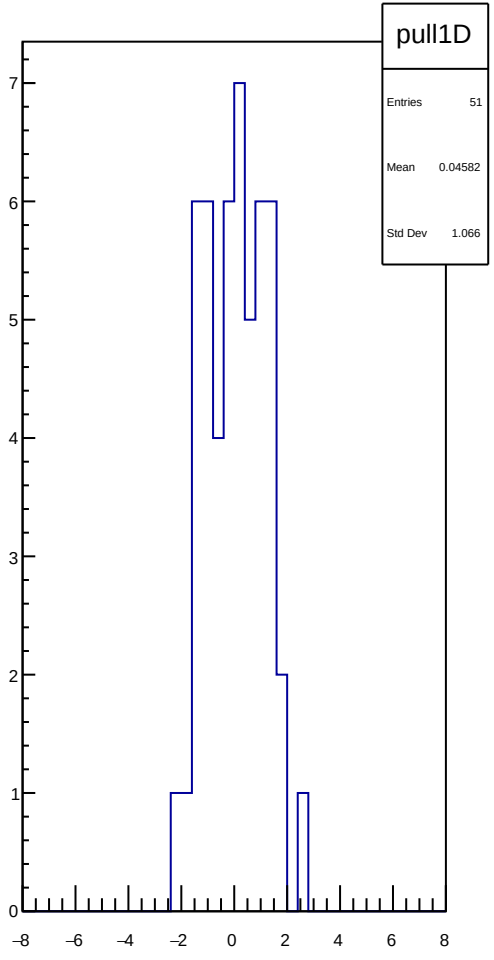

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 46.29 / 53
p0 −509.2 ± 346.2
×10³
1000
500
0
−500
−1000
−1500
pull
Entries 54
Mean 44.64
Std Dev 16.19
pull1D
Entries 54
Mean 0.0794
Std Dev 0.9225

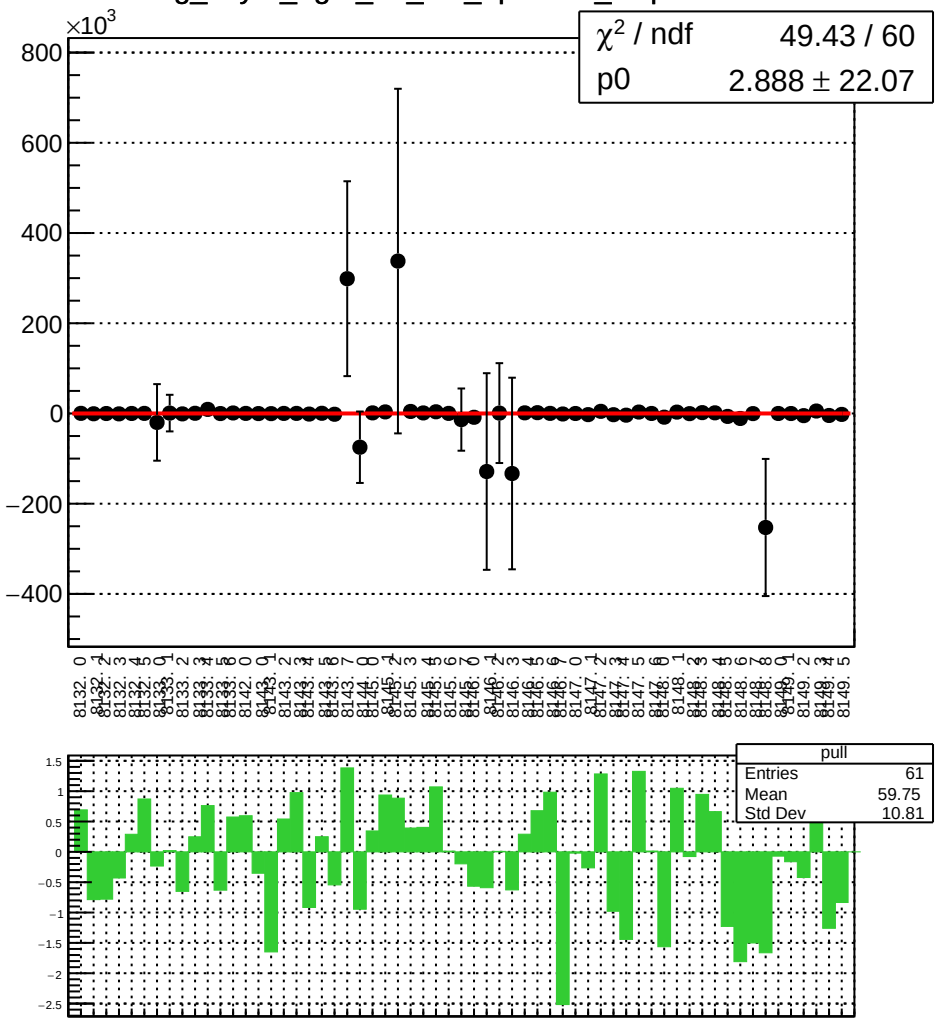

reg_asym_right_dd_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 56.27 / 51
p0 893.1 ± 538.2
500
0
−500
−1000
−1500
−2000
pull
Entries 52
Mean −14.91
Std Dev 40.86
pull1D
Entries 52
Mean −0.08173
Std Dev 1.037

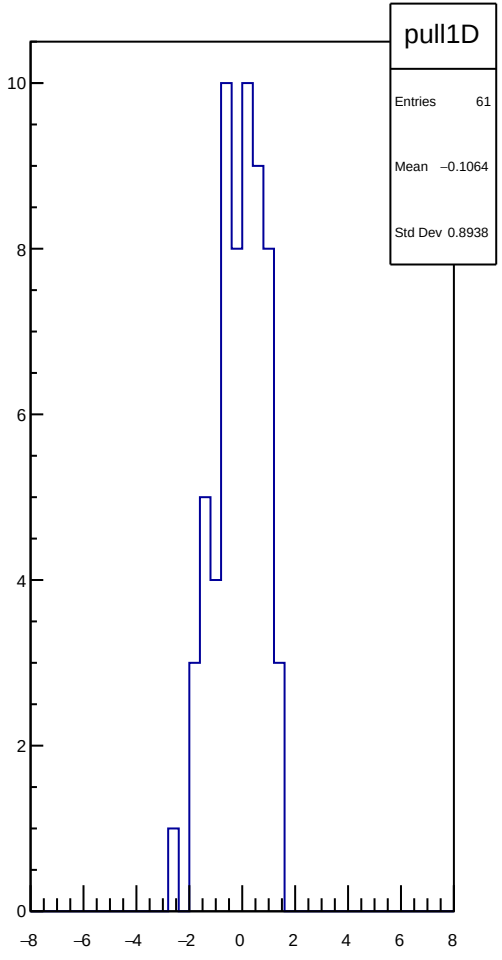

reg_asym_right_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 49.88 / 53
p0 563.1 ± 332.7
1500
1000
500
0
−500
−1000
pull
Entries 54
Mean 43.92
Std Dev 13.68
2
1
0
−1
−2

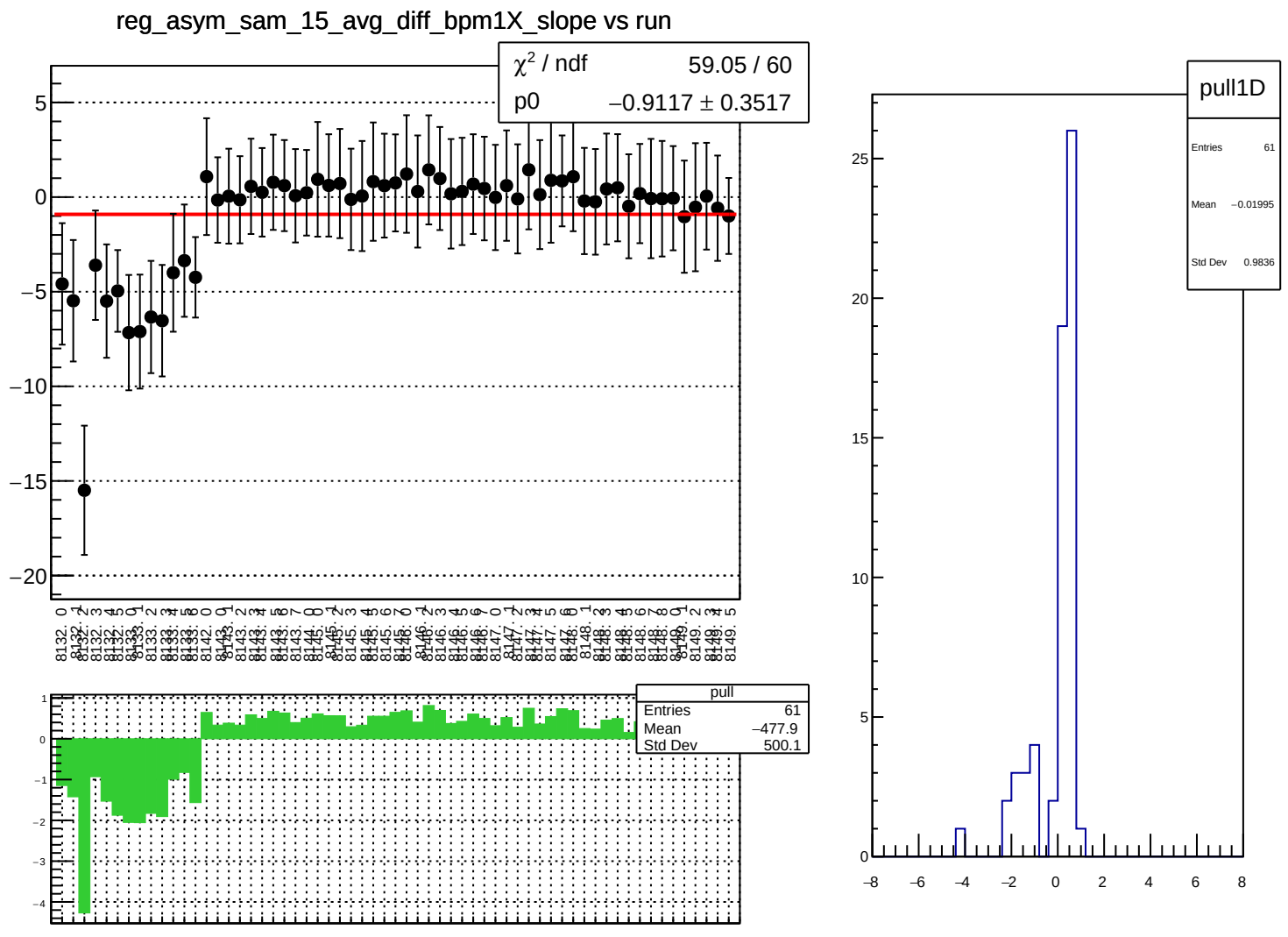

pull1D
Entries 54
Mean −0.08943
Std Dev 0.9569
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

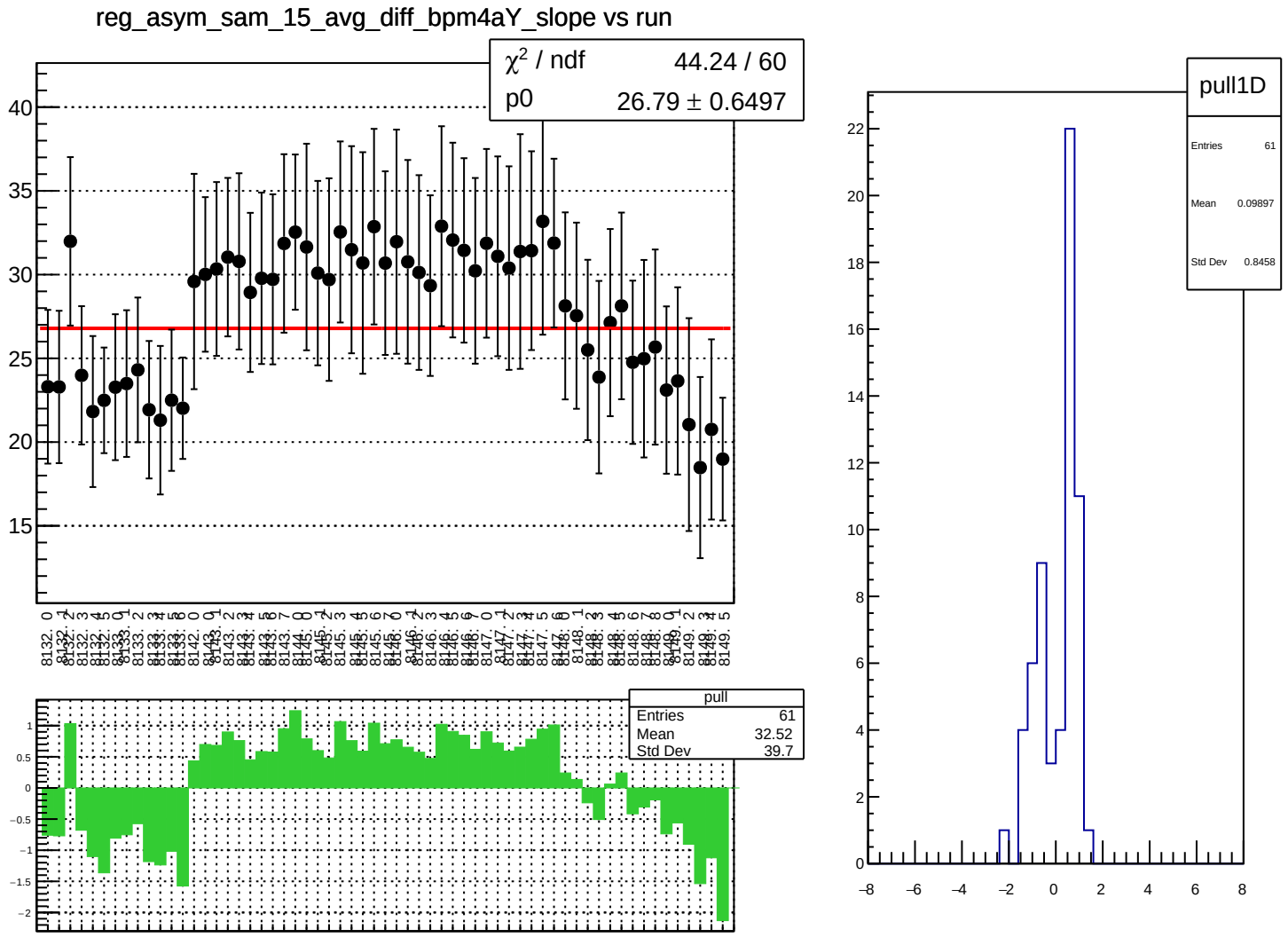

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.04 / 50
p0 −913.8 ± 577
×10³
pull
Entries 51
Mean −33.58
Std Dev 60.18

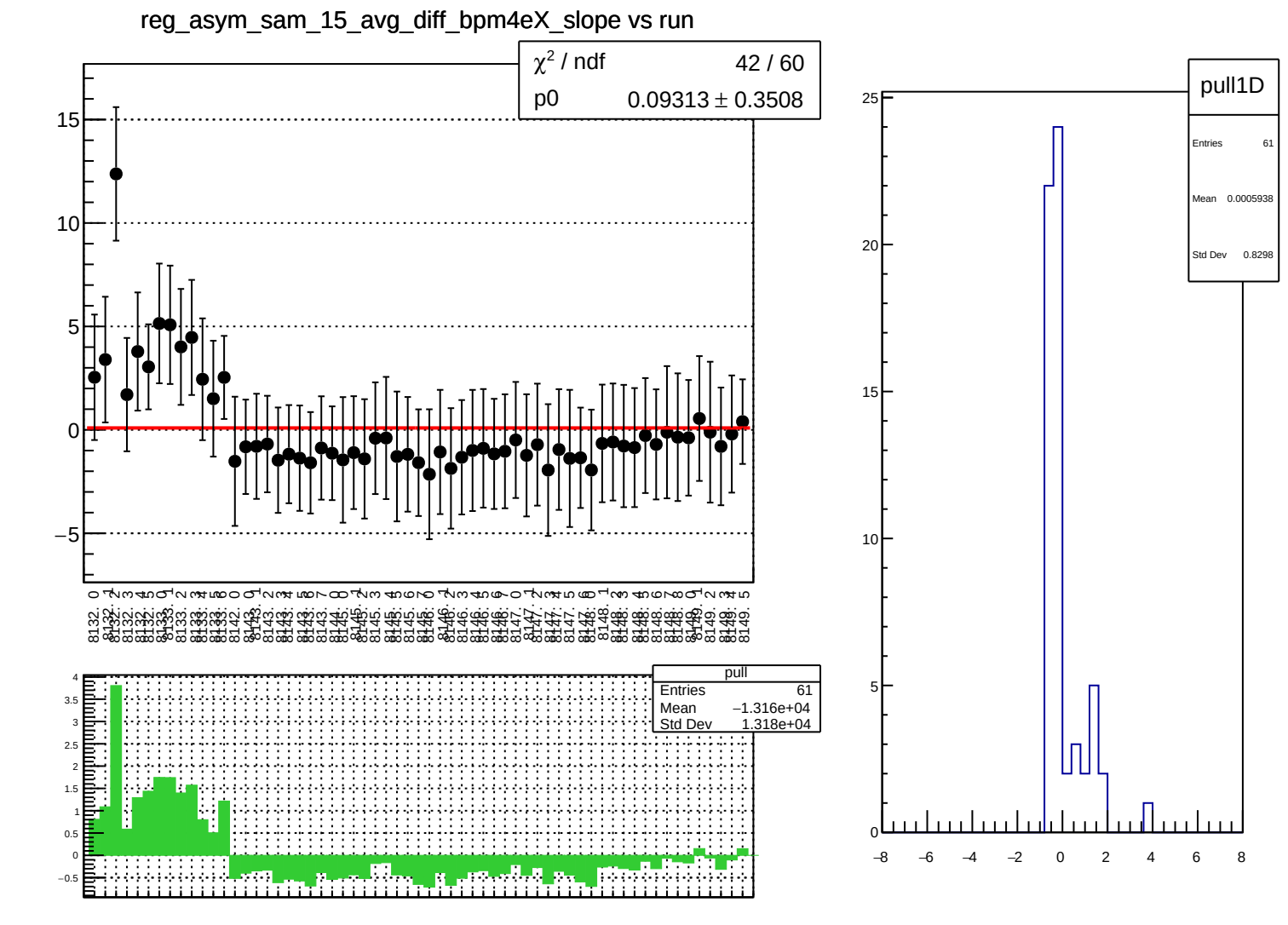

pull1D
Entries 51
Mean 0.04582
Std Dev 1.066

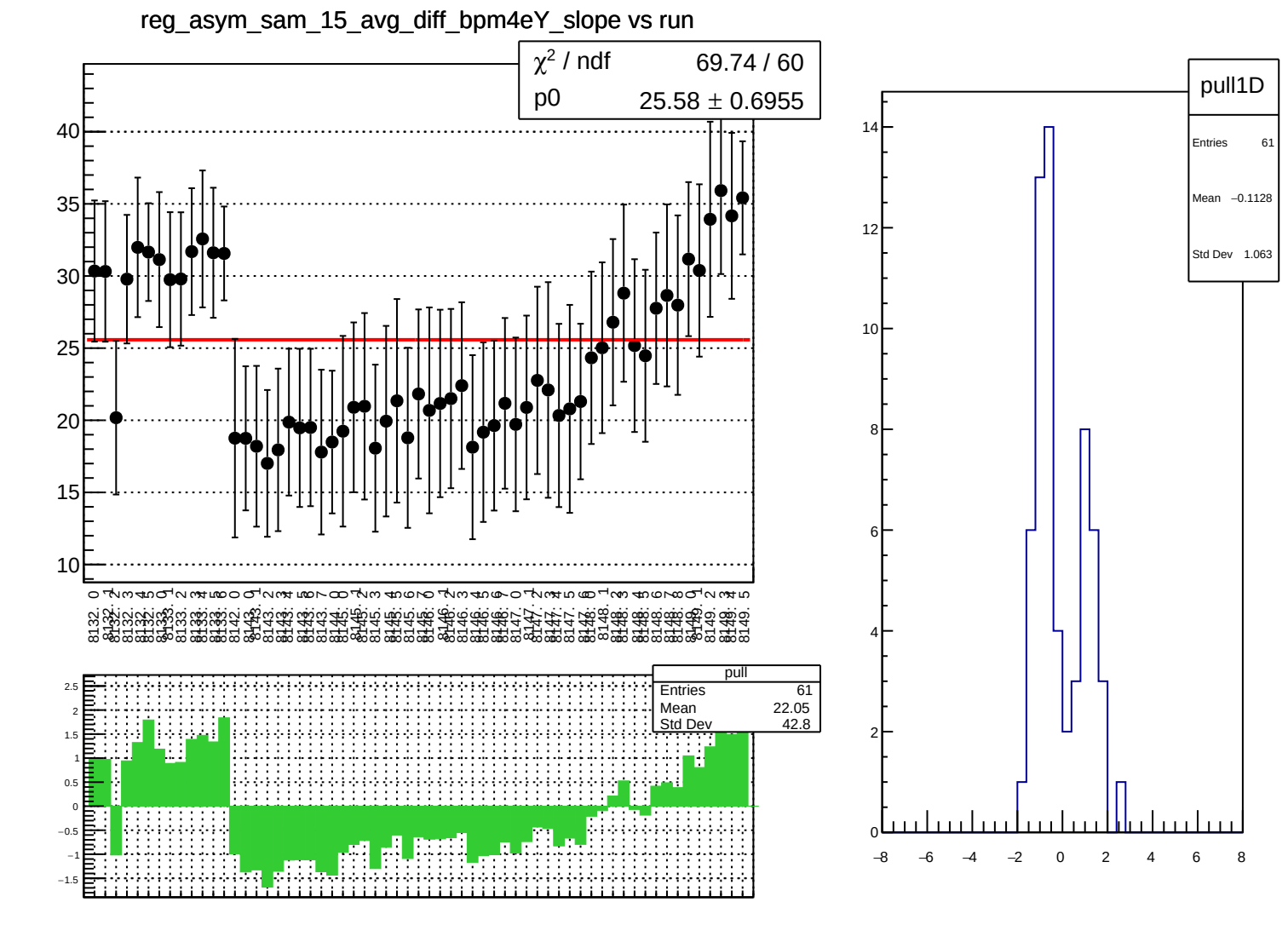

reg_asym_right_dd_diff_bpm12X_slope vs run
×10^3
χ² / ndf 49.43 / 60
p0 2.888 ± 22.07
pull
Entries 61
Mean 59.75
Std Dev 10.81

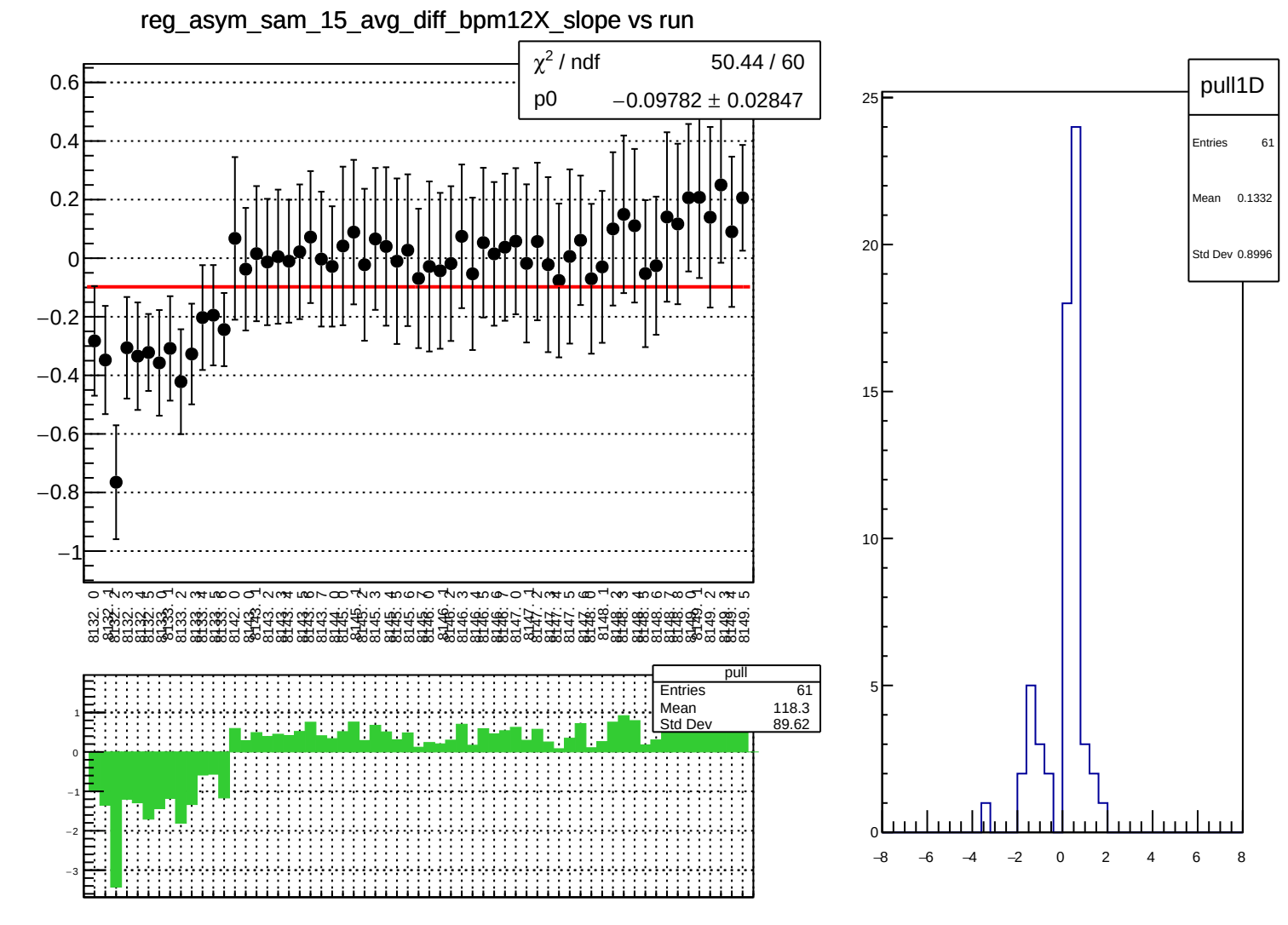

pull1D
Entries 61
Mean −0.1064
Std Dev 0.8938

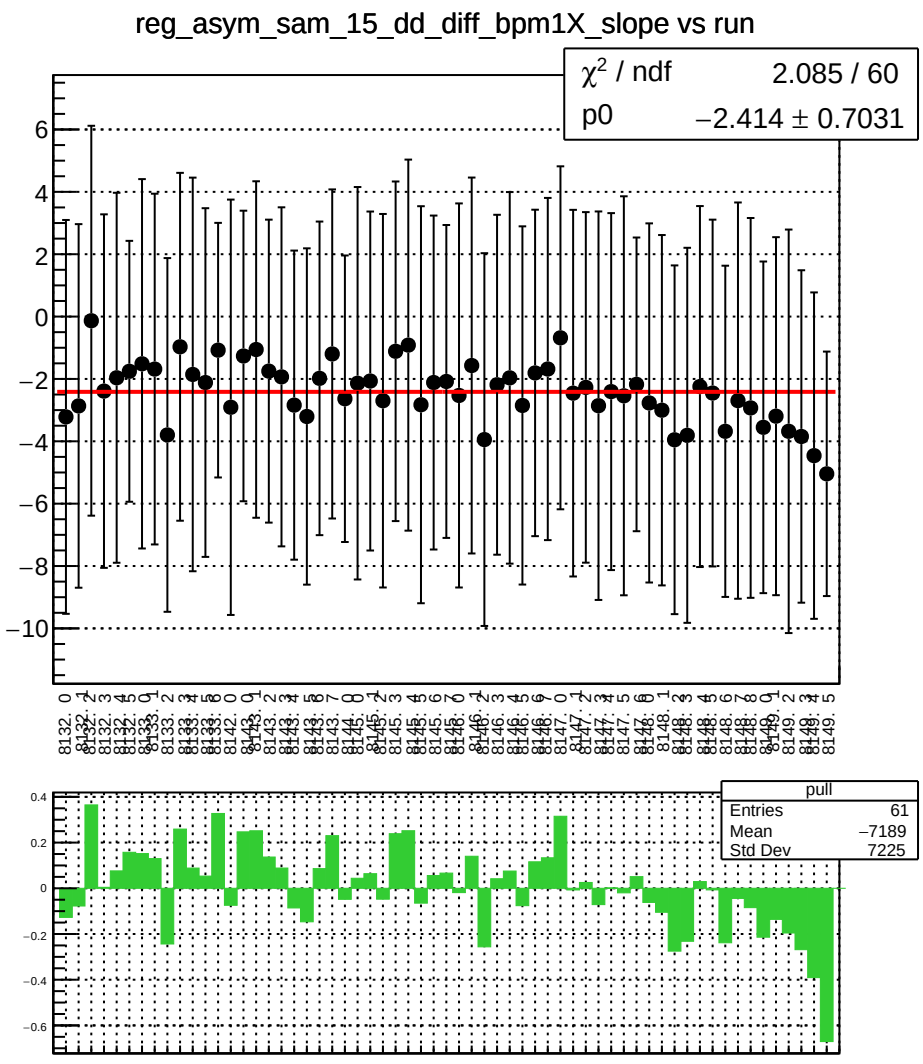

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 59.05 / 60
p0 −0.9117 ± 0.3517
pull
Entries 61
Mean −477.9
Std Dev 500.1
pull1D
Entries 61
Mean −0.01995
Std Dev 0.9836

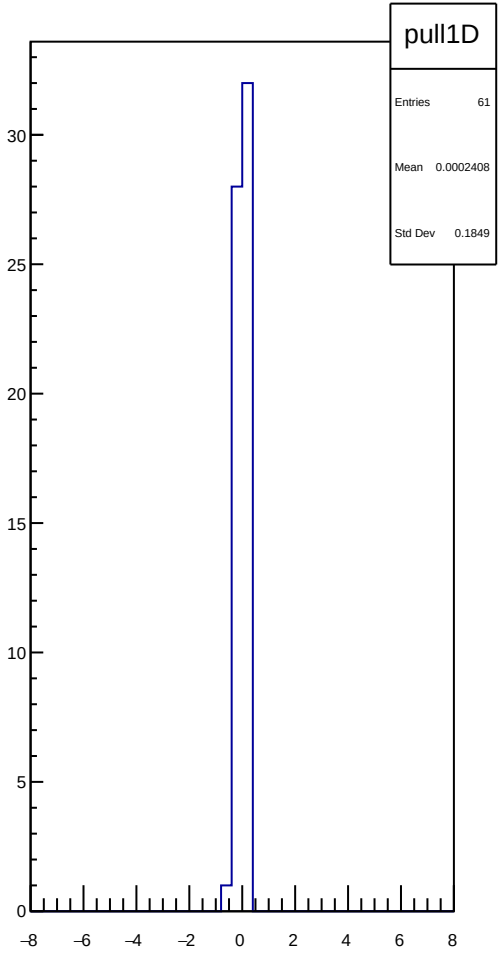

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.24 / 60
p0 26.79 ± 0.6497
pull
Entries 61
Mean 32.52
Std Dev 39.7
pull1D
Entries 61
Mean 0.09897
Std Dev 0.8458

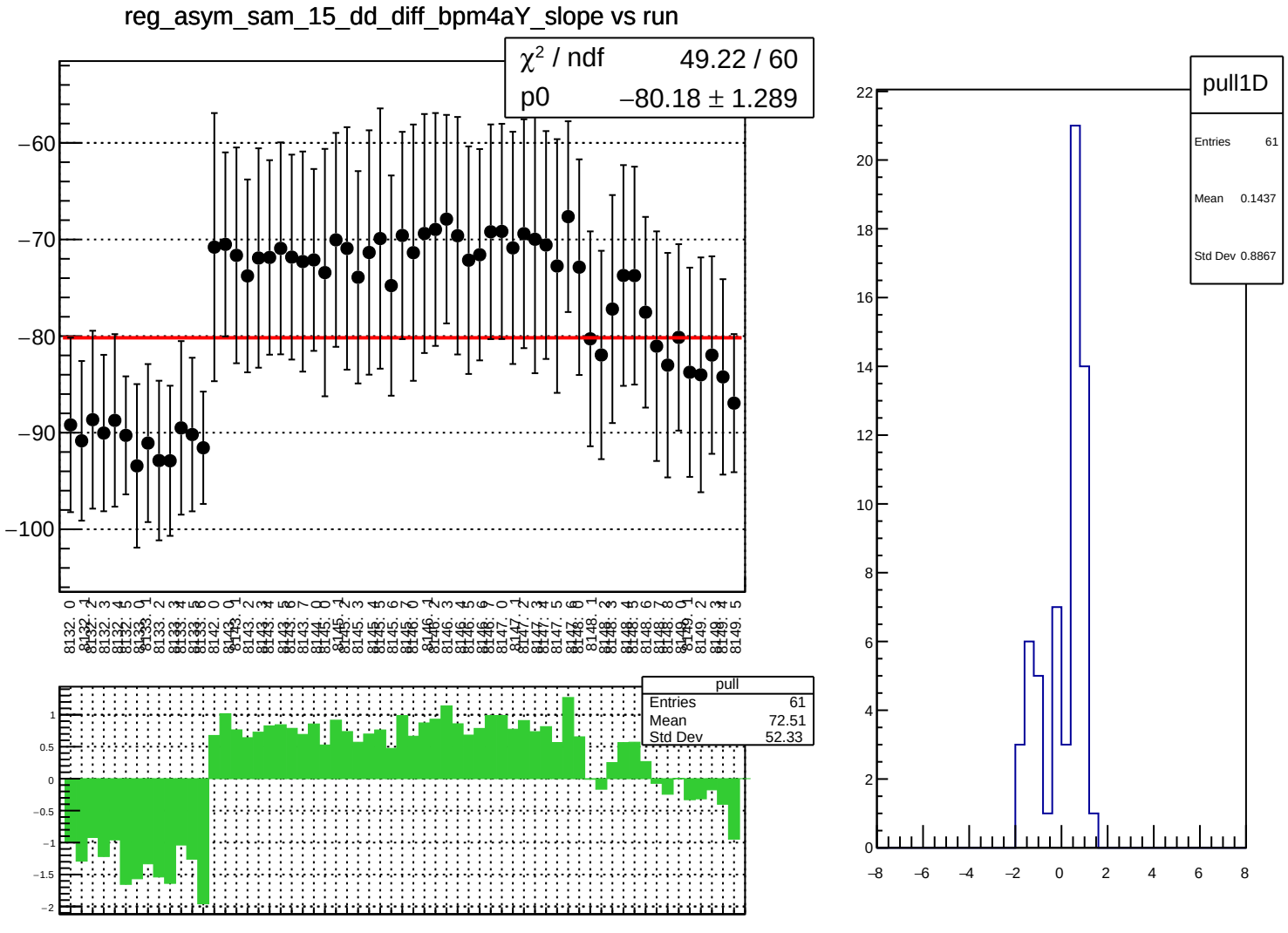

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 42 / 60
p0 0.09313 ± 0.3508
pull
Entries 61
Mean −1.316e+04
Std Dev 1.318e+04
pull1D
Entries 61
Mean 0.0005938
Std Dev 0.8298

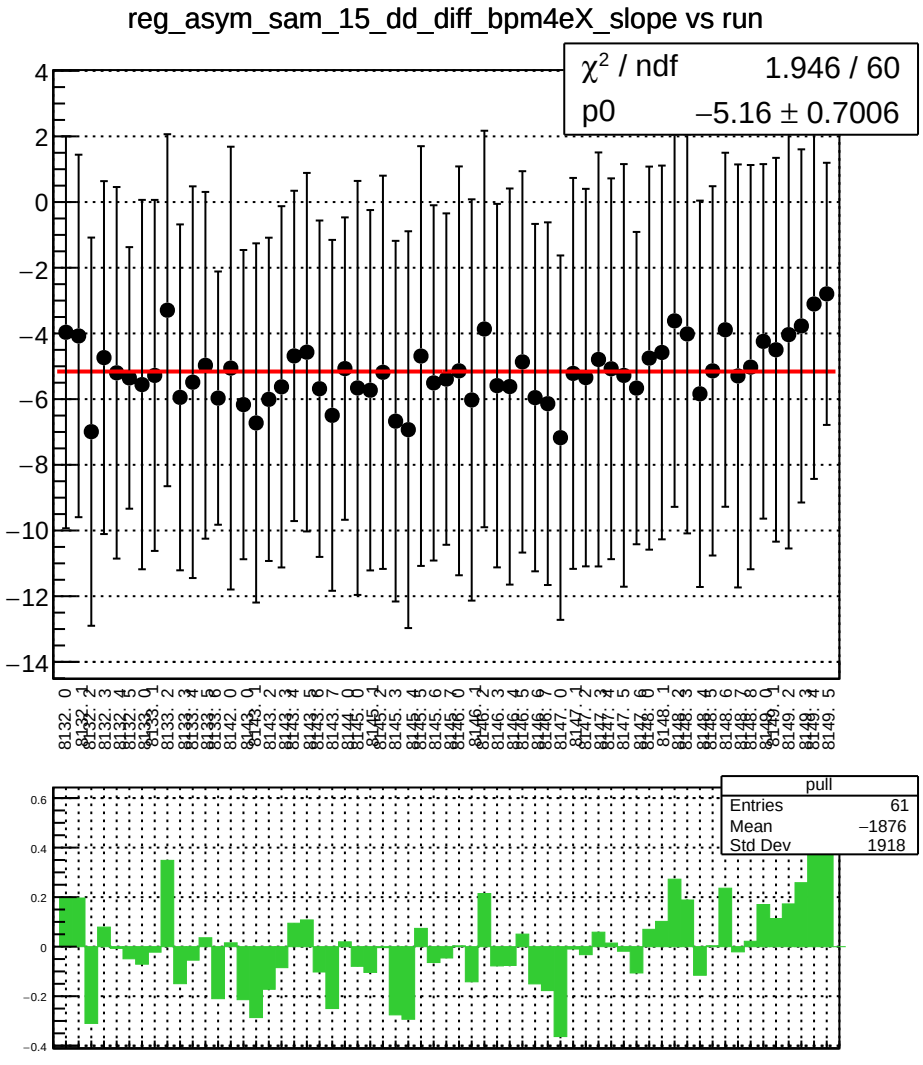

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 69.74 / 60
p0 25.58 ± 0.6955
pull
Entries 61
Mean 22.05
Std Dev 42.8
pull1D
Entries 61
Mean −0.1128
Std Dev 1.063

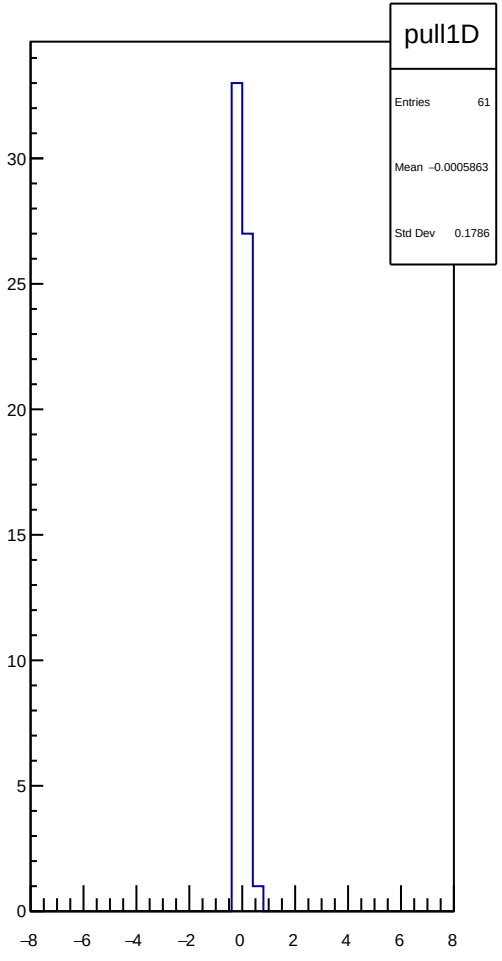

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 50.44 / 60
p0 −0.09782 ± 0.02847
pull
Entries 61
Mean 118.3
Std Dev 89.62
pull1D
Entries 61
Mean 0.1332
Std Dev 0.8996

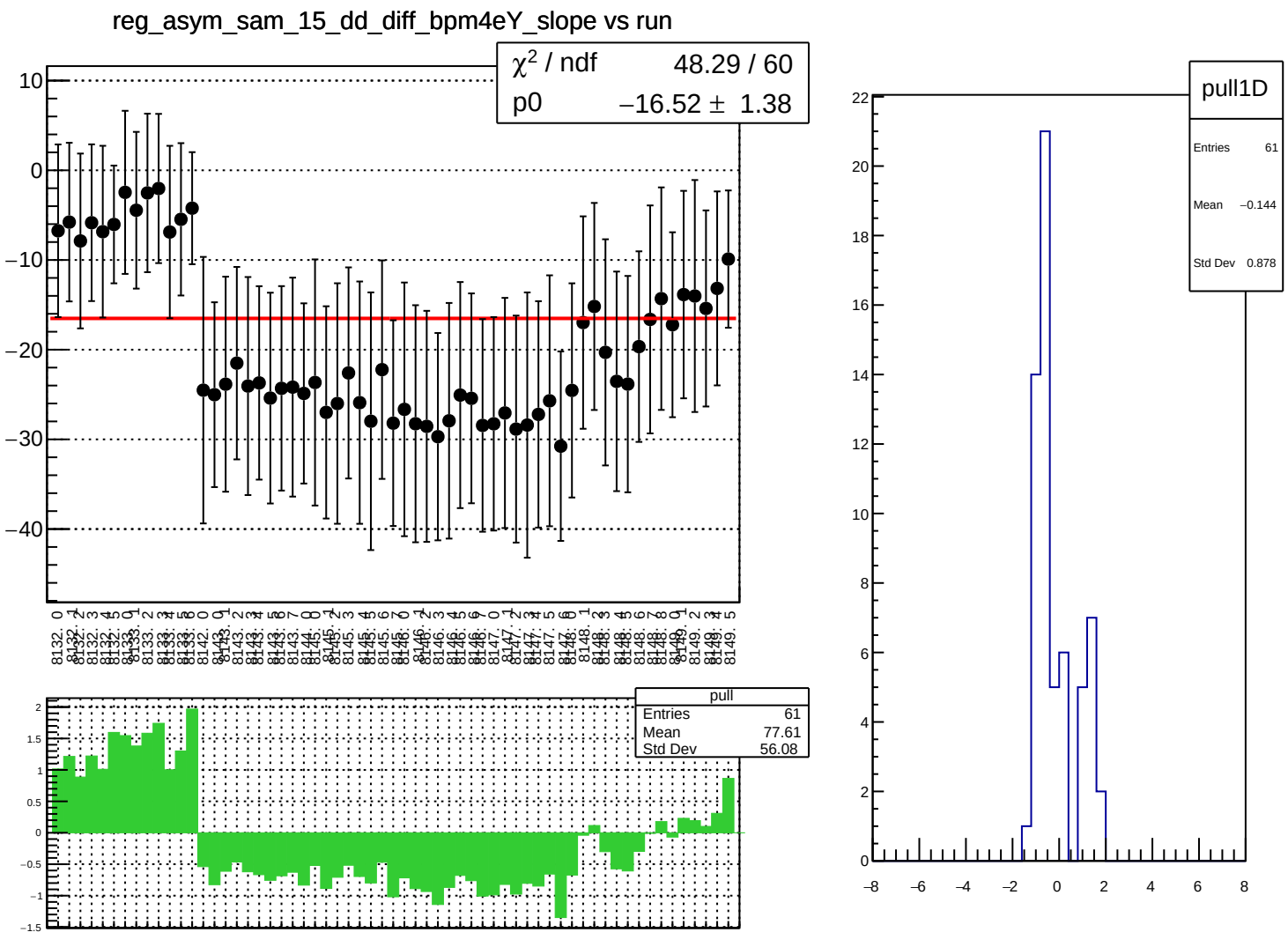

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 2.085 / 60
p0 −2.414 ± 0.7031
pull
Entries 61
Mean −7189
Std Dev 7225

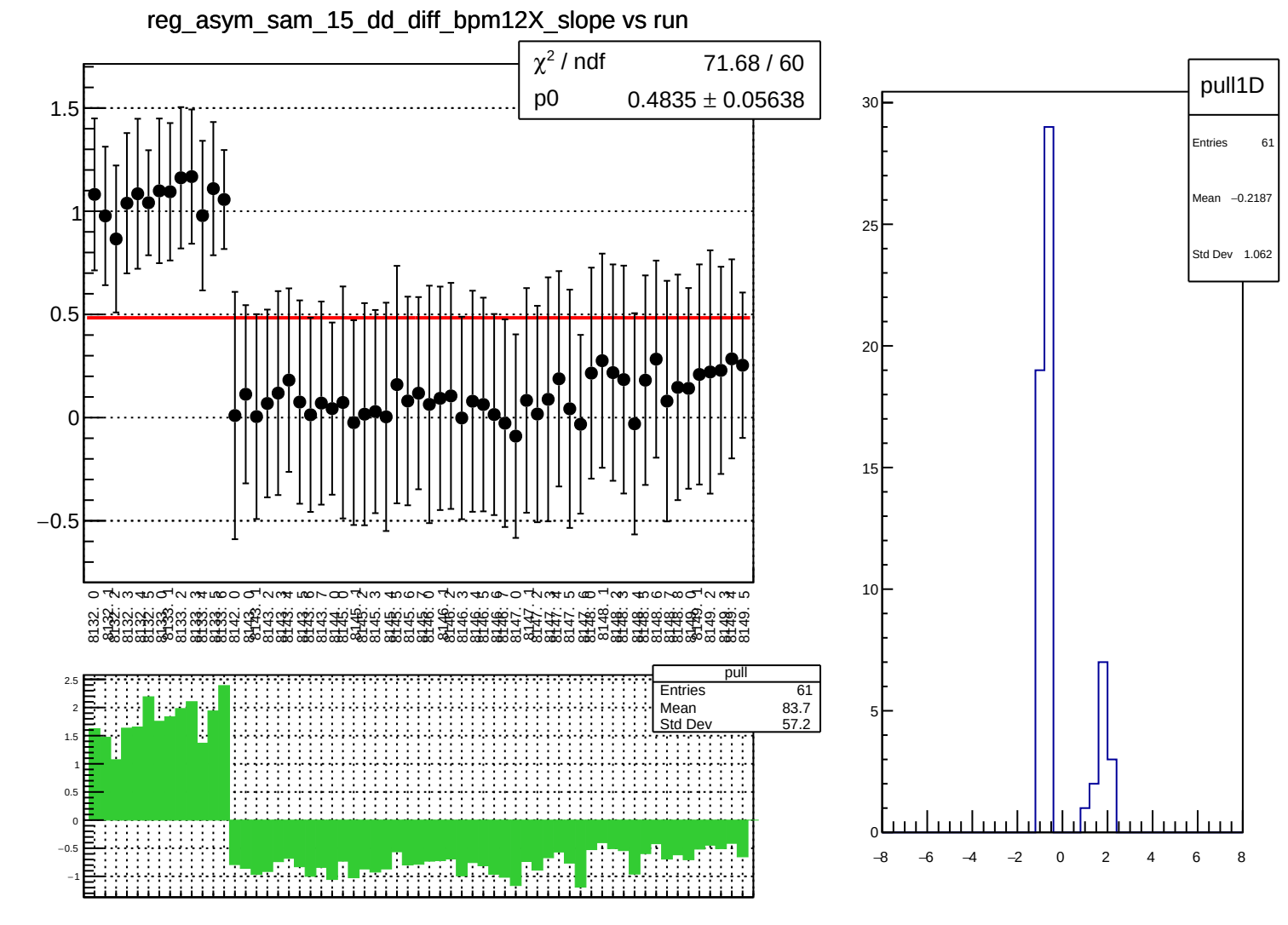

pull1D
Entries 61
Mean 0.0002408
Std Dev 0.1849

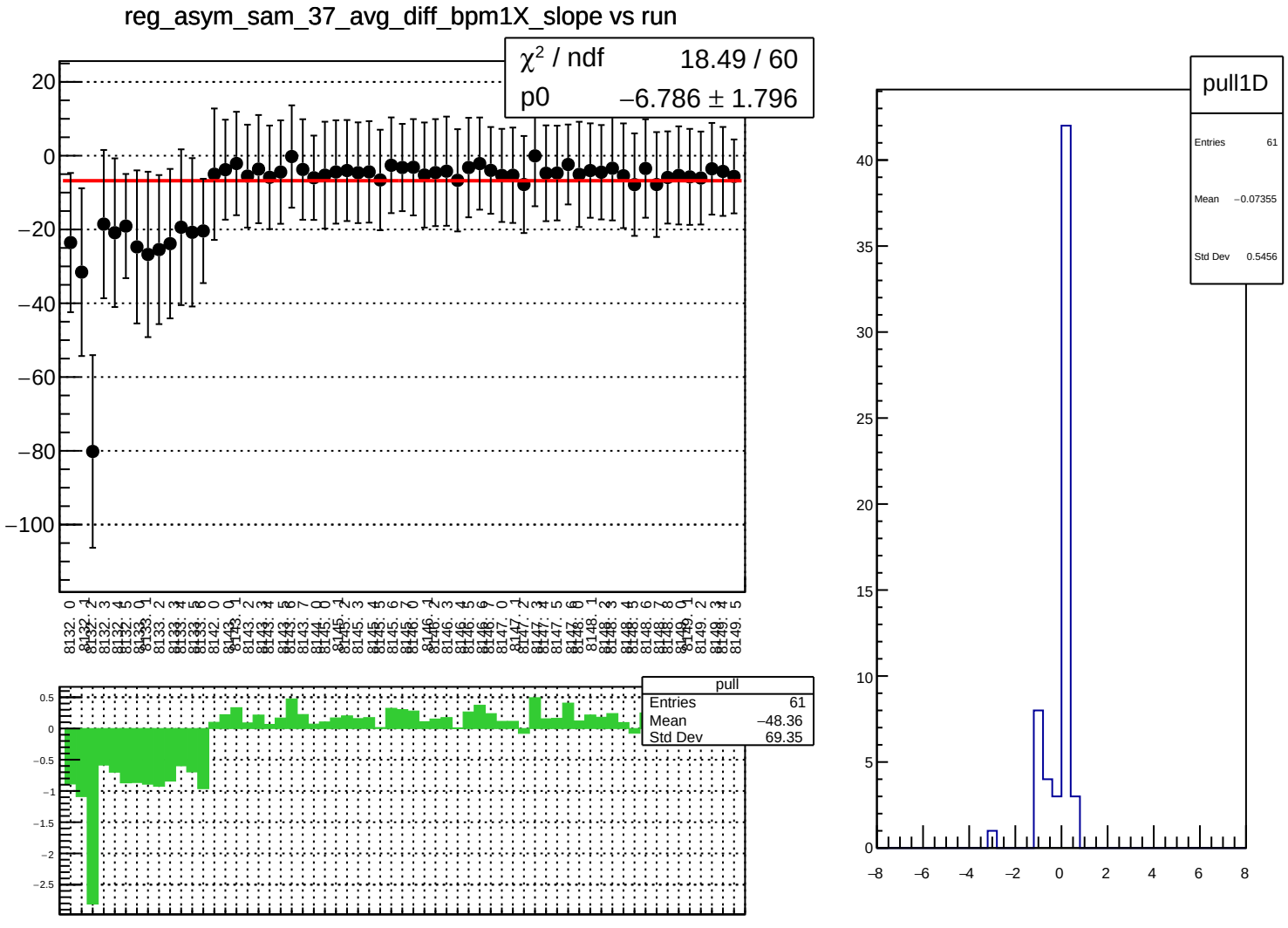

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.22 / 60
p0 −80.18 ± 1.289
pull
Entries 61
Mean 72.51
Std Dev 52.33
pull1D
Entries 61
Mean 0.1437
Std Dev 0.8867

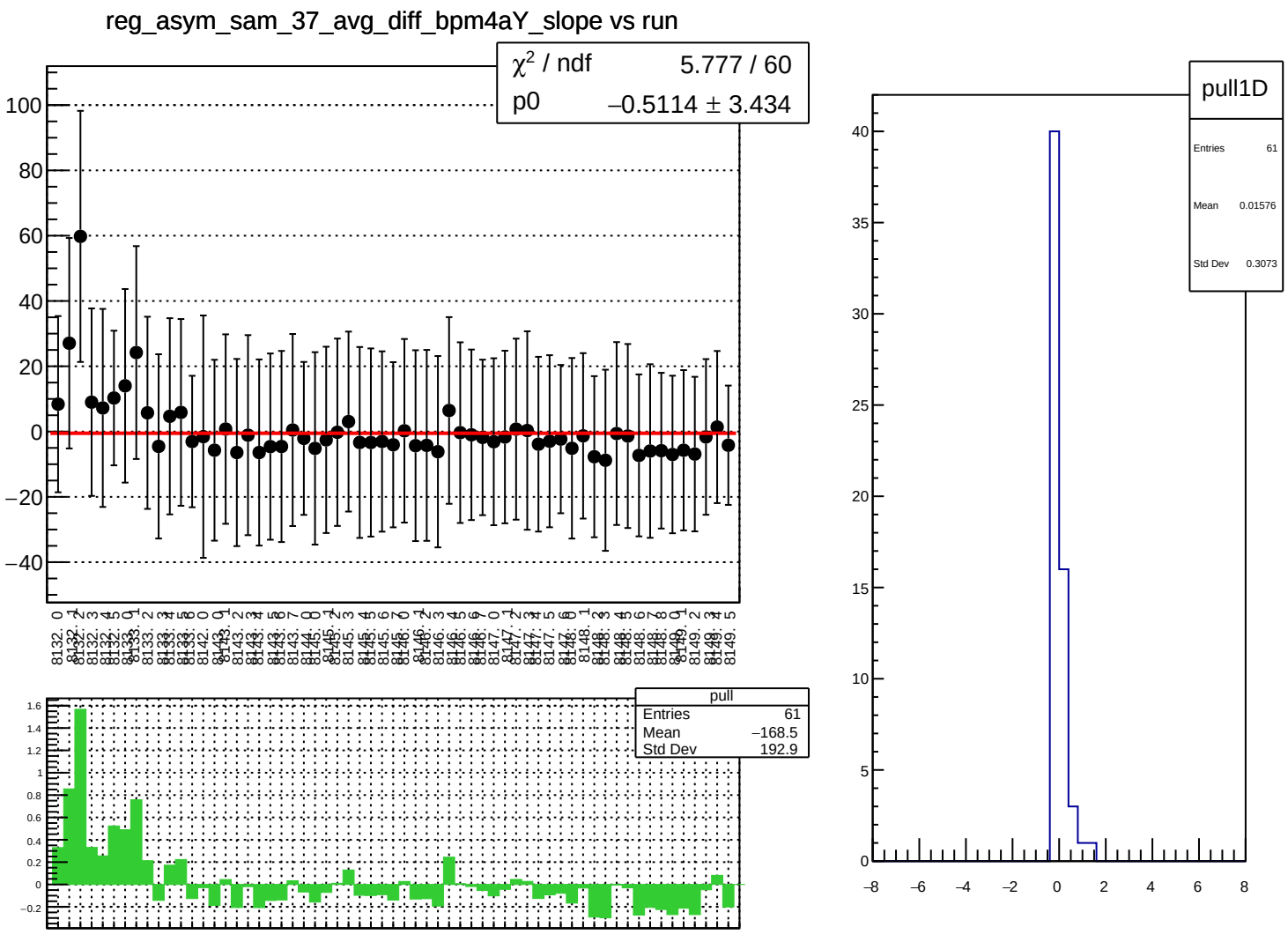

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.946 / 60
p0 −5.16 ± 0.7006
pull
Entries 61
Mean −1876
Std Dev 1918

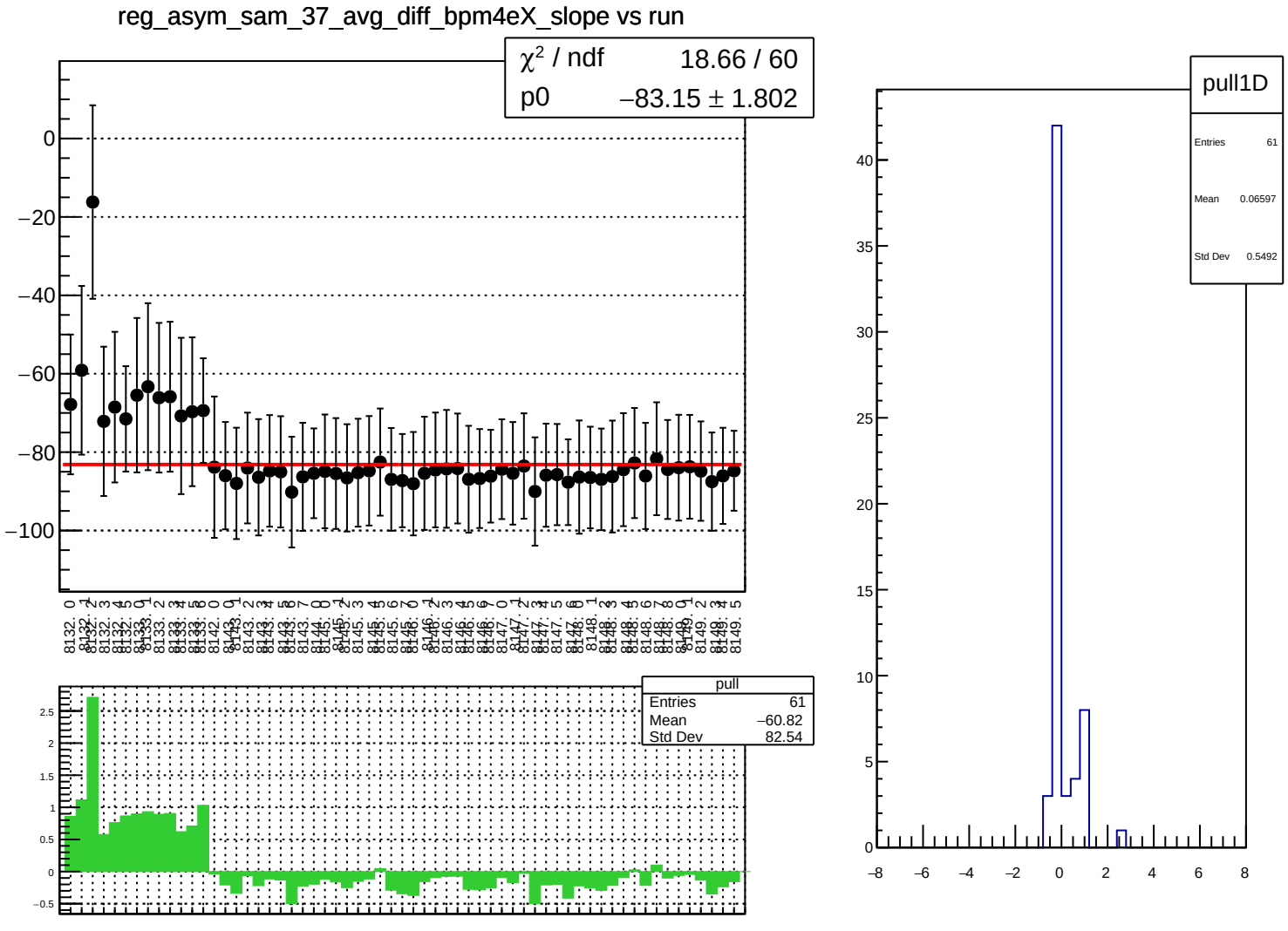

pull1D
Entries 61
Mean −0.0005863
Std Dev 0.1786

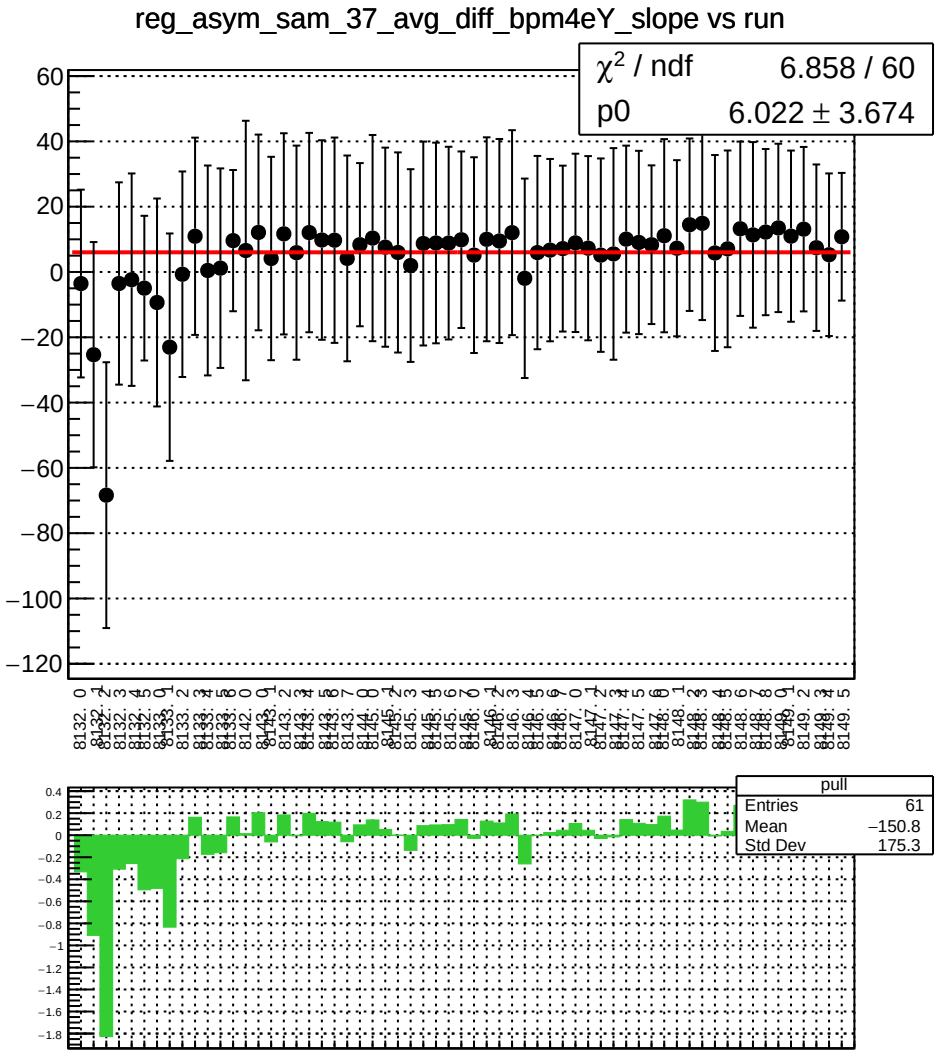

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.29 / 60
p0 −16.52 ± 1.38
pull
Entries 61
Mean 77.61
Std Dev 56.08
pull1D
Entries 61
Mean −0.144
Std Dev 0.878

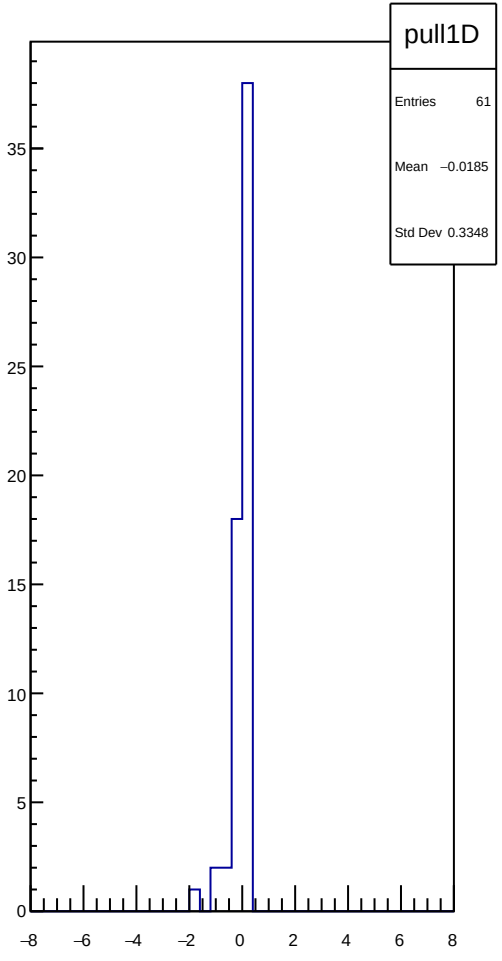

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 71.68 / 60
p0 0.4835 ± 0.05638
pull
Entries 61
Mean 83.7
Std Dev 57.2
pull1D
Entries 61
Mean −0.2187
Std Dev 1.062

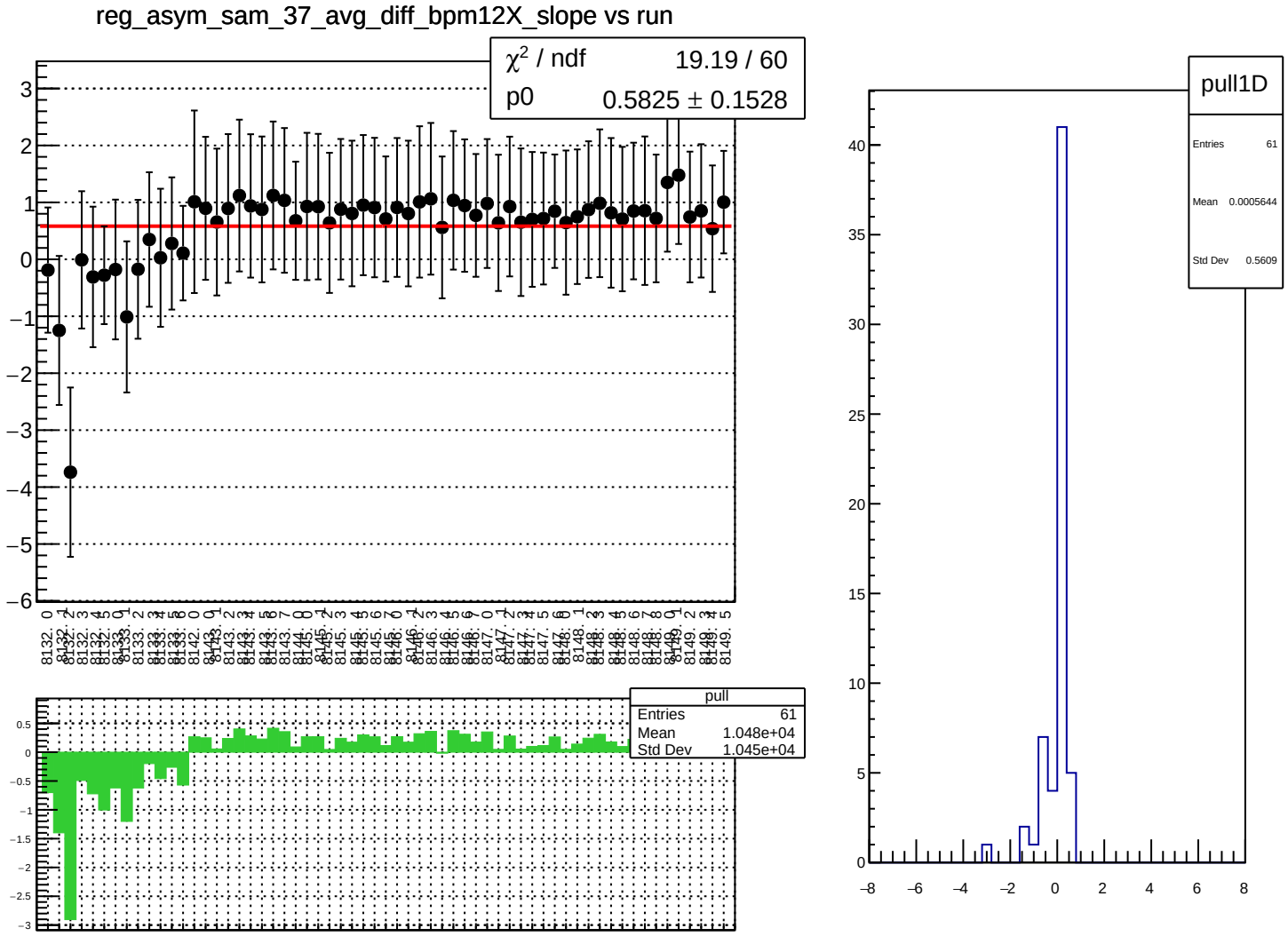

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 18.49 / 60
p0 −6.786 ± 1.796
pull
Entries 61
Mean −48.36
Std Dev 69.35
pull1D
Entries 61
Mean −0.07355
Std Dev 0.5456

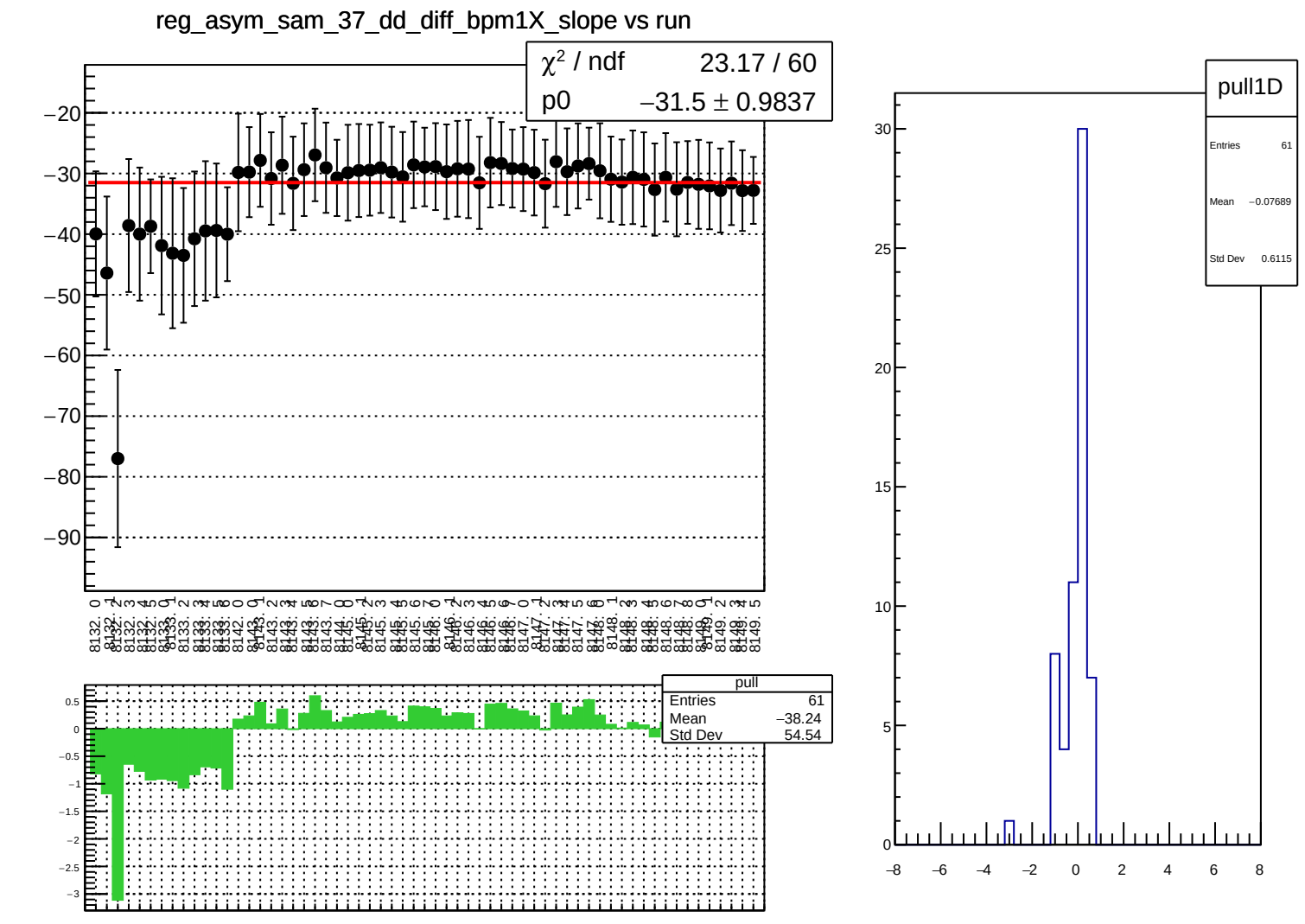

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.777 / 60
p0 −0.5114 ± 3.434
pull
Entries 61
Mean −168.5
Std Dev 192.9
pull1D
Entries 61
Mean 0.01576
Std Dev 0.3073

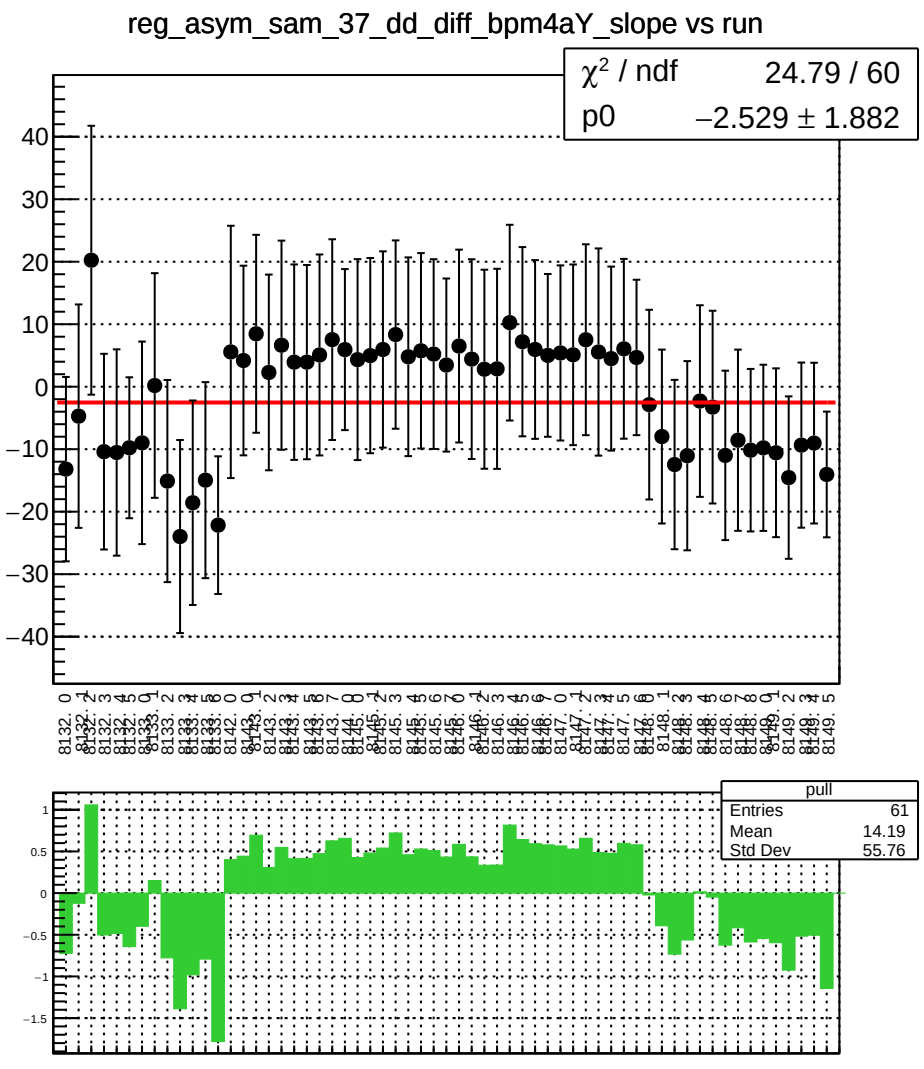

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.66 / 60
p0 −83.15 ± 1.802
pull
Entries 61
Mean −60.82
Std Dev 82.54
pull1D
Entries 61
Mean 0.06597
Std Dev 0.5492

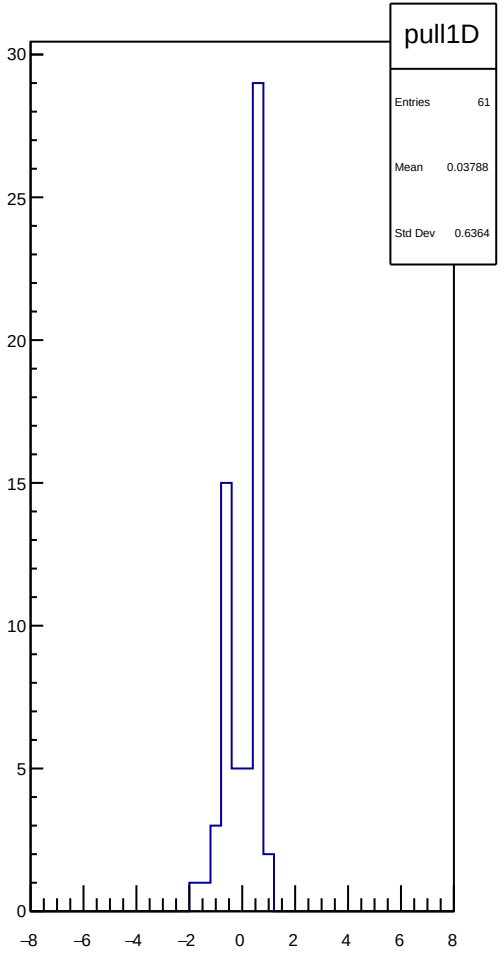

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.858 / 60
p0 6.022 ± 3.674
pull
Entries 61
Mean −150.8
Std Dev 175.3

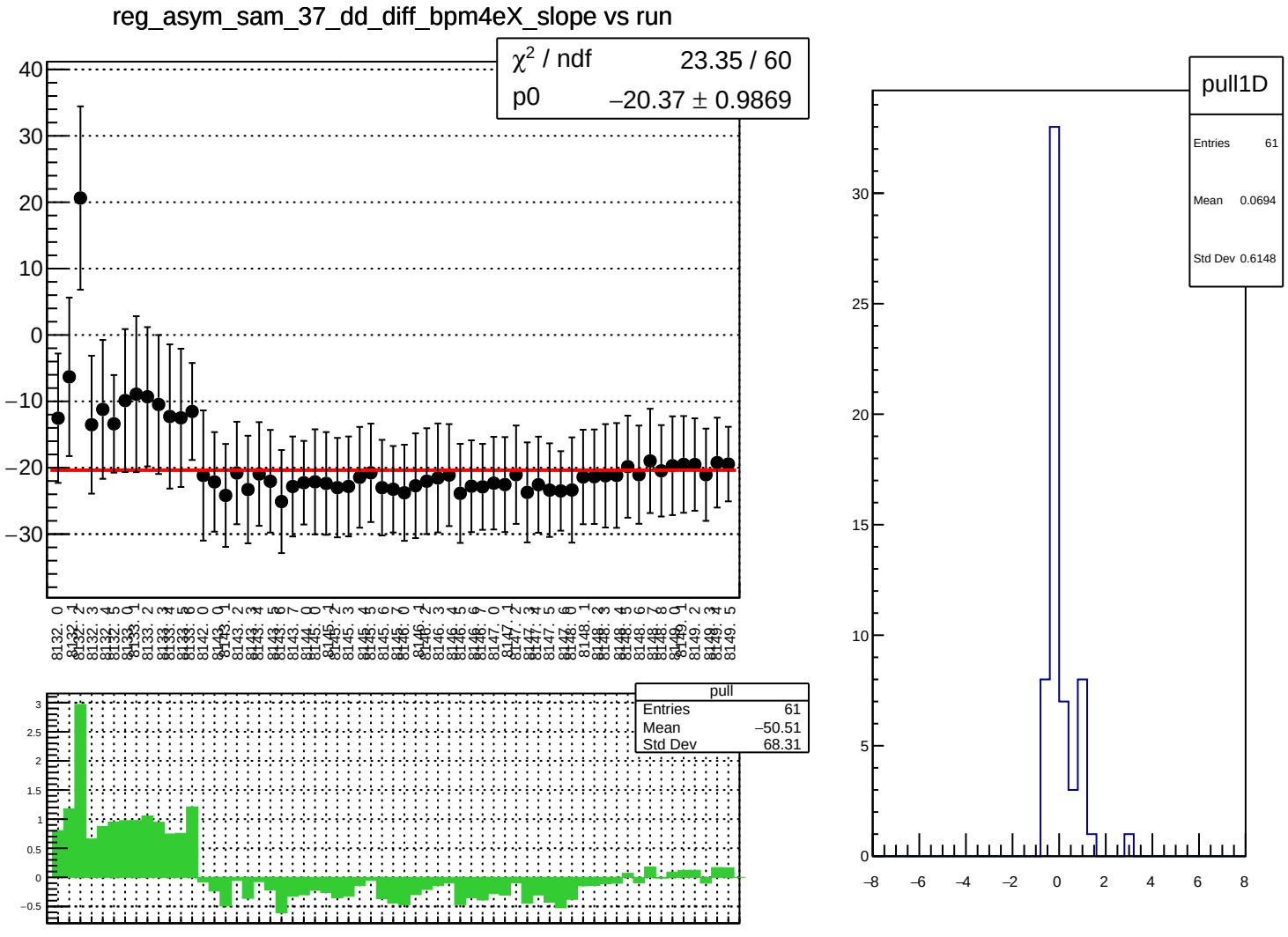

pull1D
Entries 61
Mean −0.0185
Std Dev 0.3348

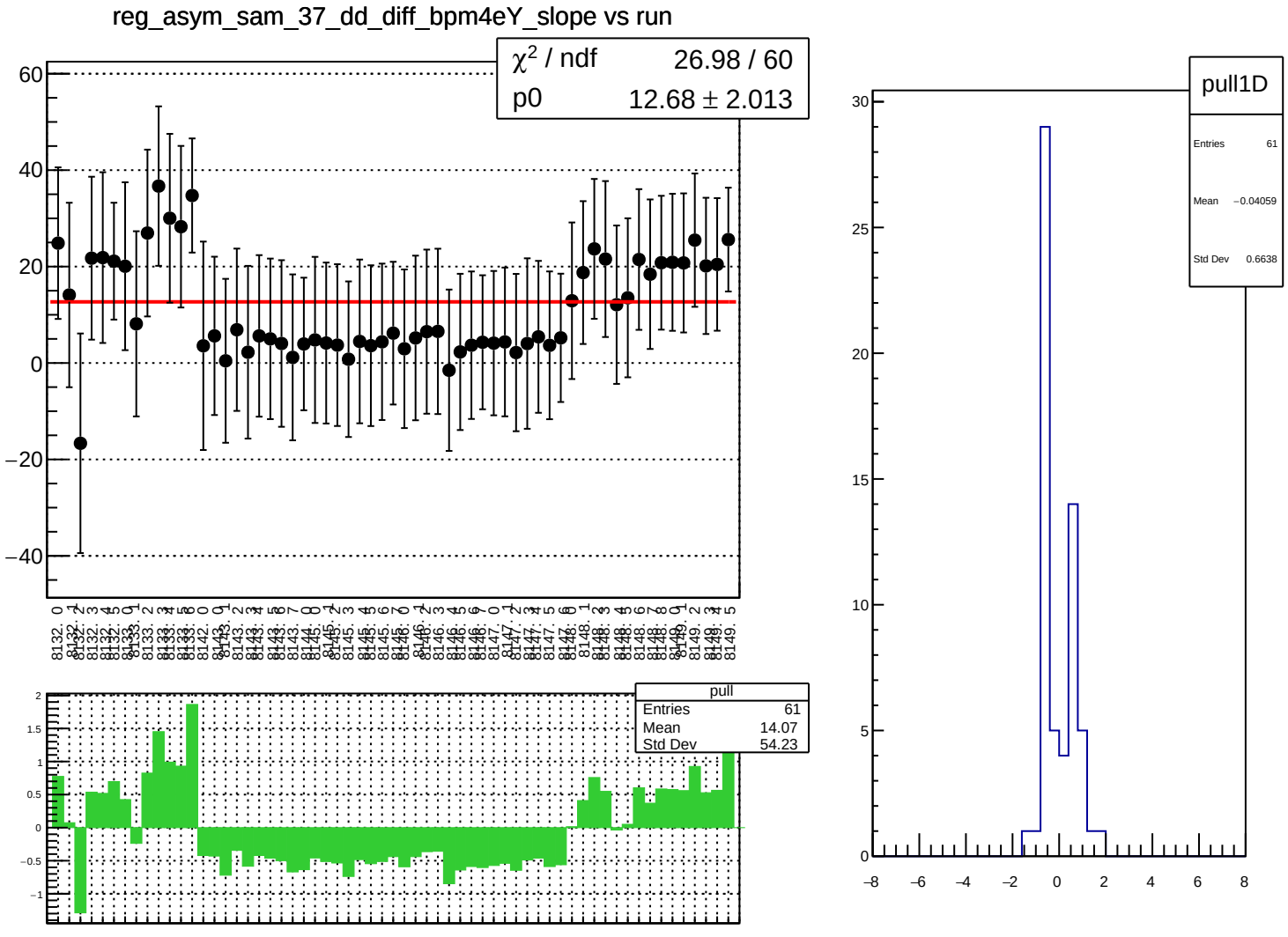

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 19.19 / 60
p0 0.5825 ± 0.1528
pull
Entries 61
Mean 1.048e+04
Std Dev 1.045e+04
pull1D
Entries 61
Mean 0.0005644
Std Dev 0.5609

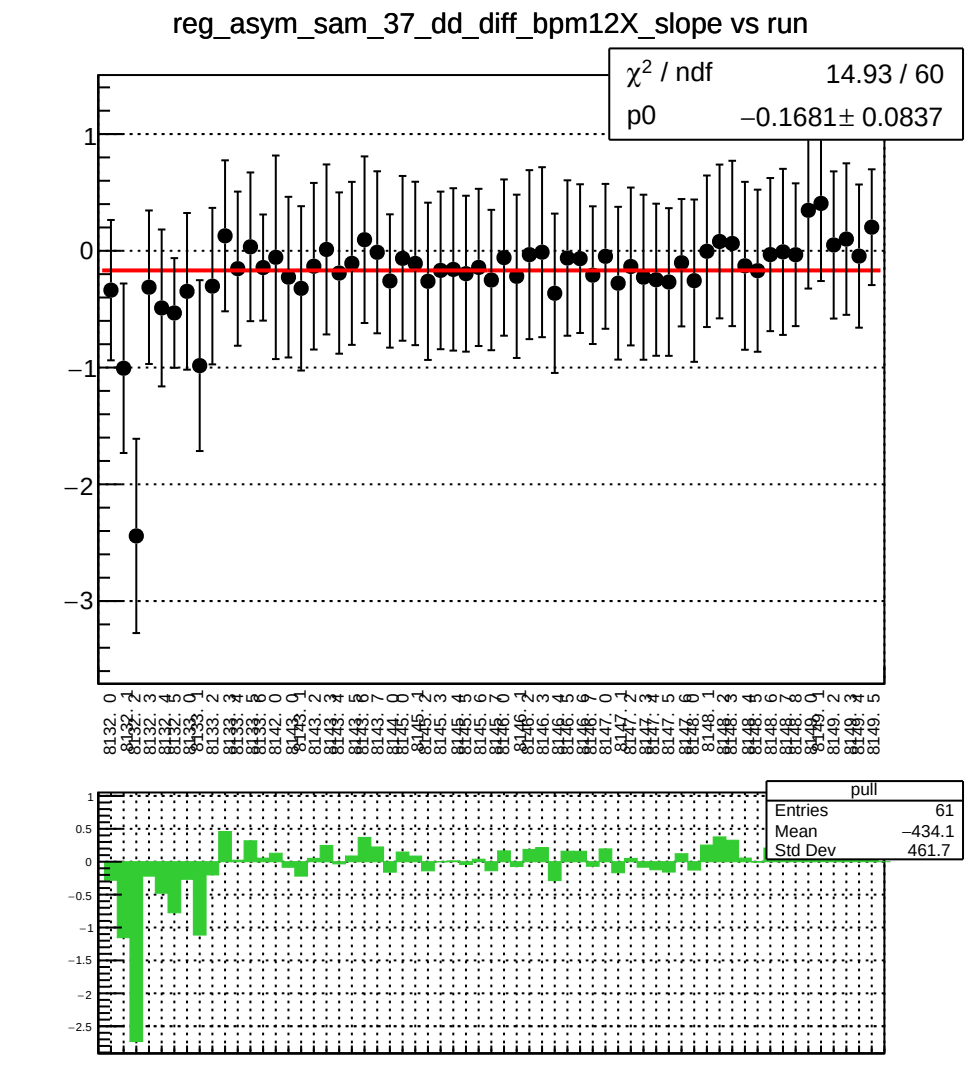

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 23.17 / 60
p0 −31.5 ± 0.9837
pull
Entries 61
Mean −38.24
Std Dev 54.54
pull1D
Entries 61
Mean −0.07689
Std Dev 0.6115

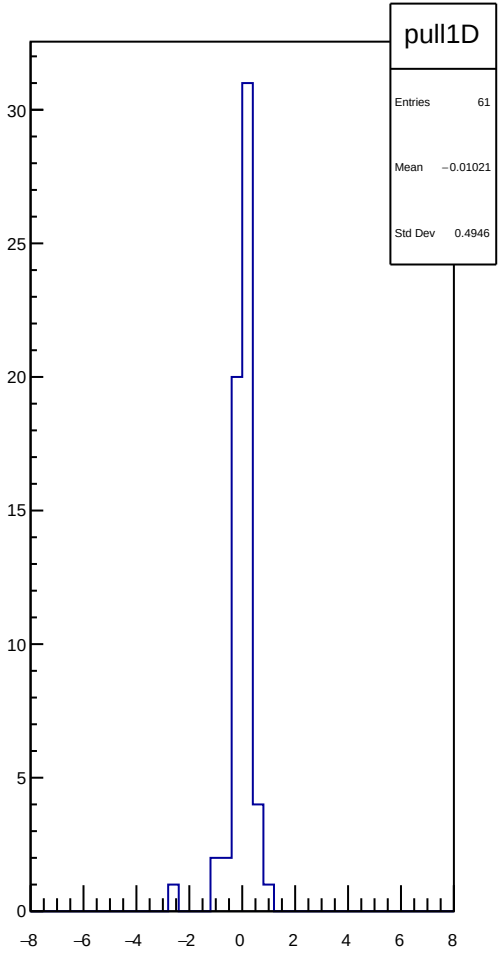

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.79 / 60
p0 −2.529 ± 1.882
pull
Entries 61
Mean 14.19
Std Dev 55.76

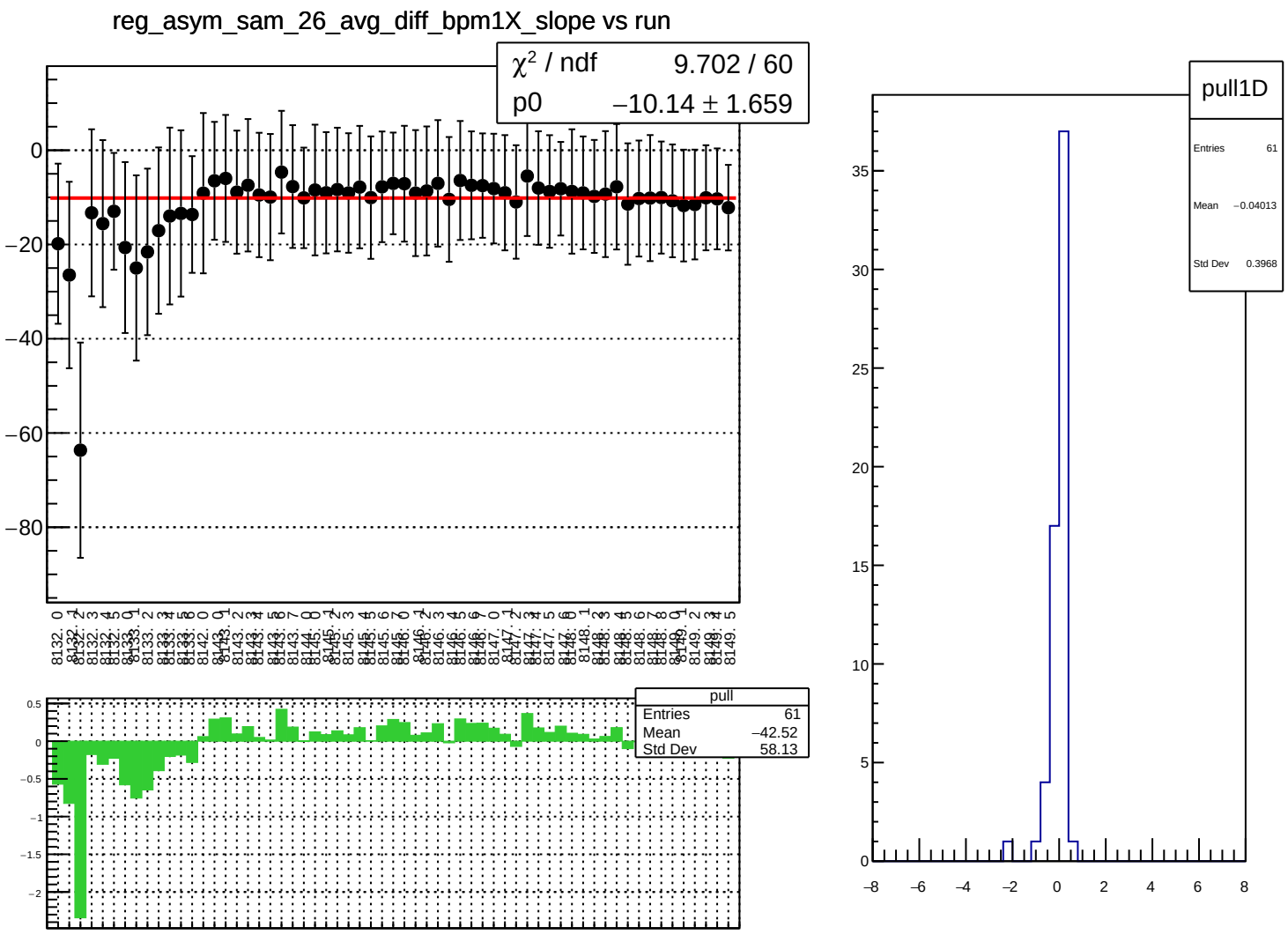

pull1D
Entries 61
Mean 0.03788
Std Dev 0.6364

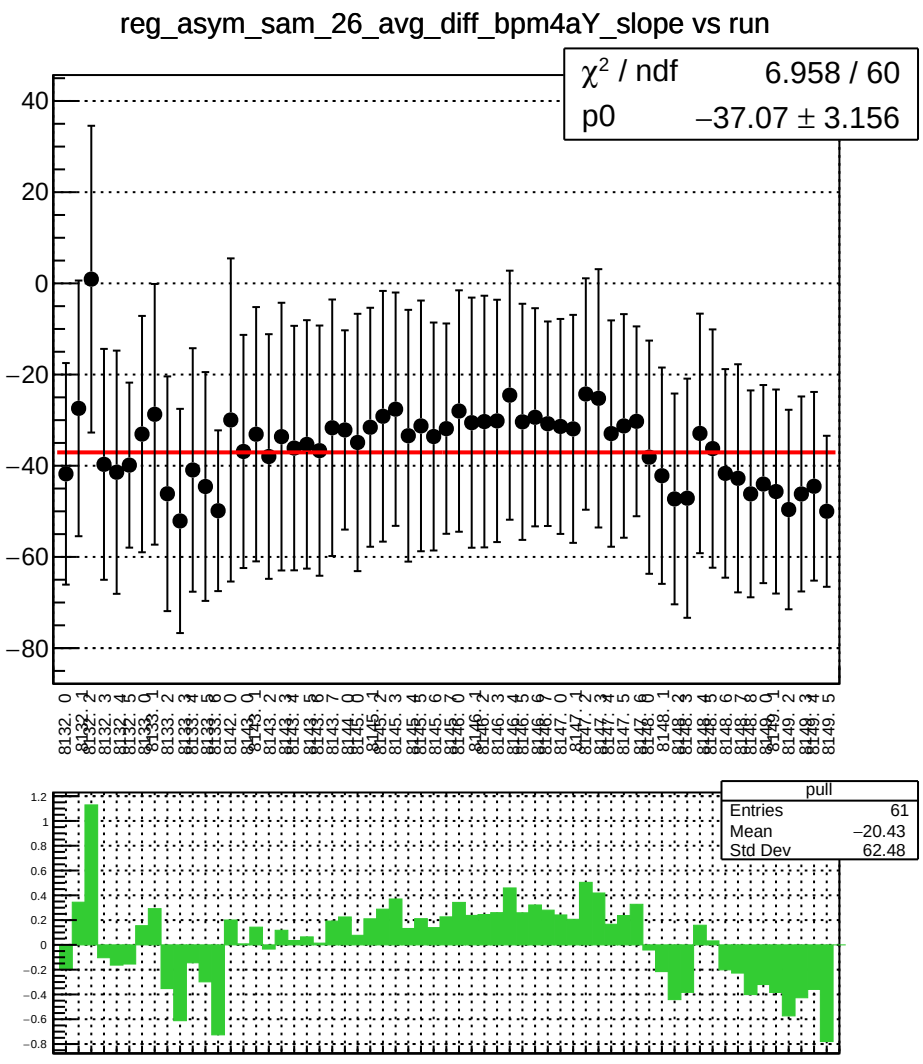

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.35 / 60
p0 −20.37 ± 0.9869
pull
Entries 61
Mean −50.51
Std Dev 68.31
pull1D
Entries 61
Mean 0.0694
Std Dev 0.6148

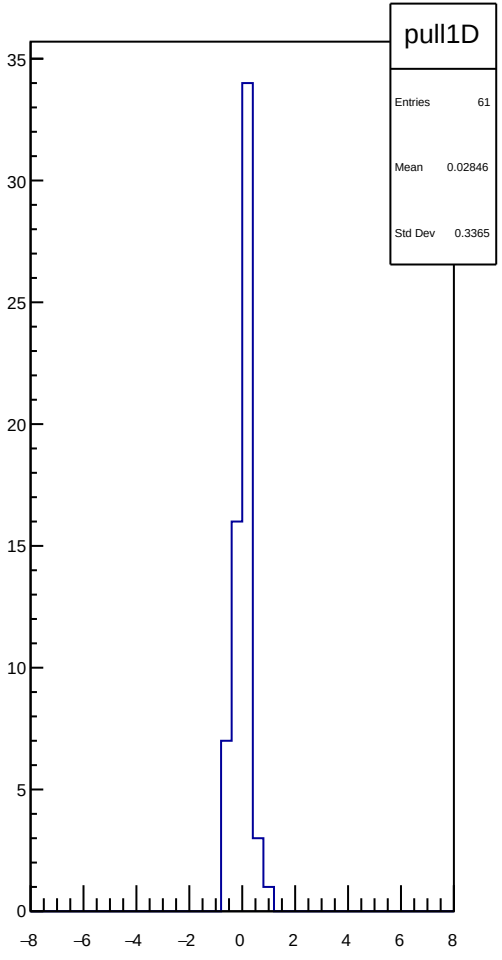

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.98 / 60
p0 12.68 ± 2.013
pull
Entries 61
Mean 14.07
Std Dev 54.23
pull1D
Entries 61
Mean −0.04059
Std Dev 0.6638

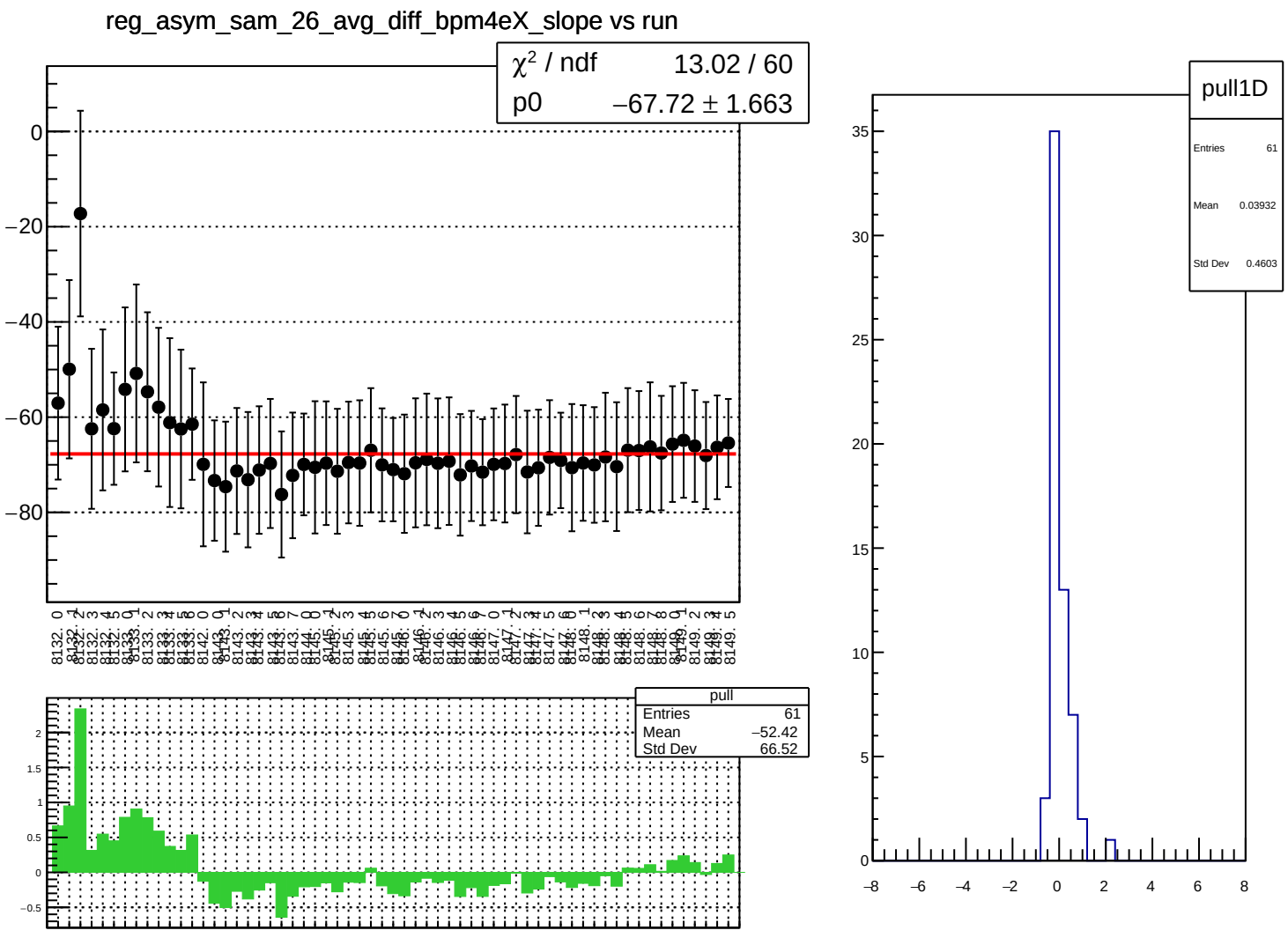

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 14.93 / 60
p0 −0.1681± 0.0837
pull
Entries 61
Mean −434.1
Std Dev 461.7

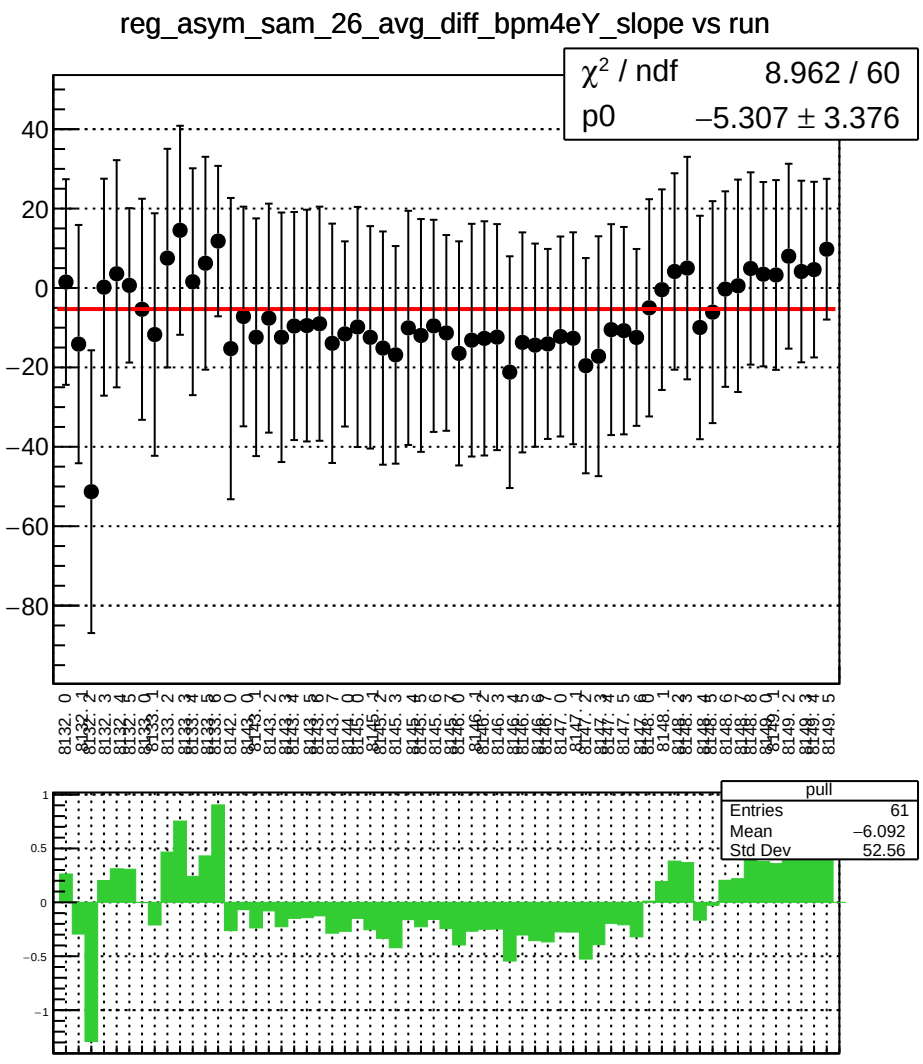

pull1D
Entries 61
Mean −0.01021
Std Dev 0.4946

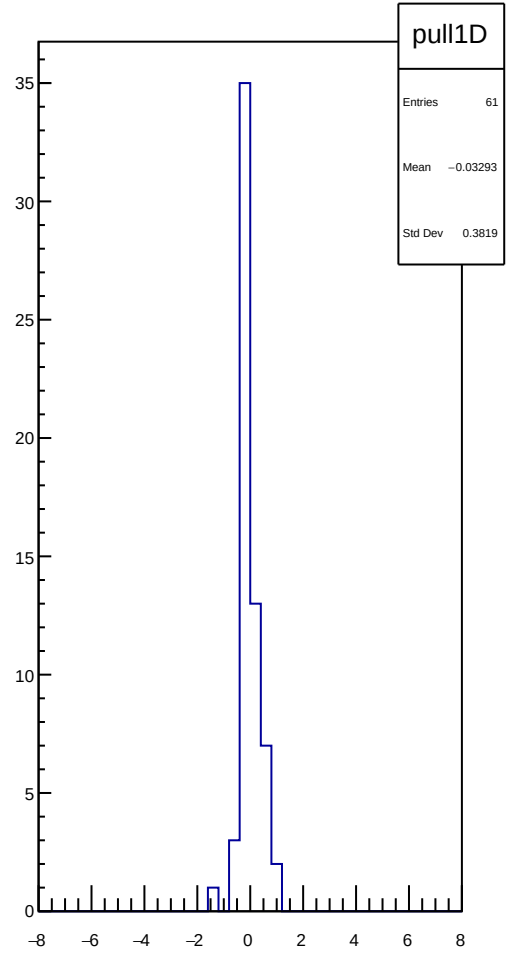

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 9.702 / 60
p0 −10.14 ± 1.659
pull
Entries 61
Mean −42.52
Std Dev 58.13
pull1D
Entries 61
Mean −0.04013
Std Dev 0.3968

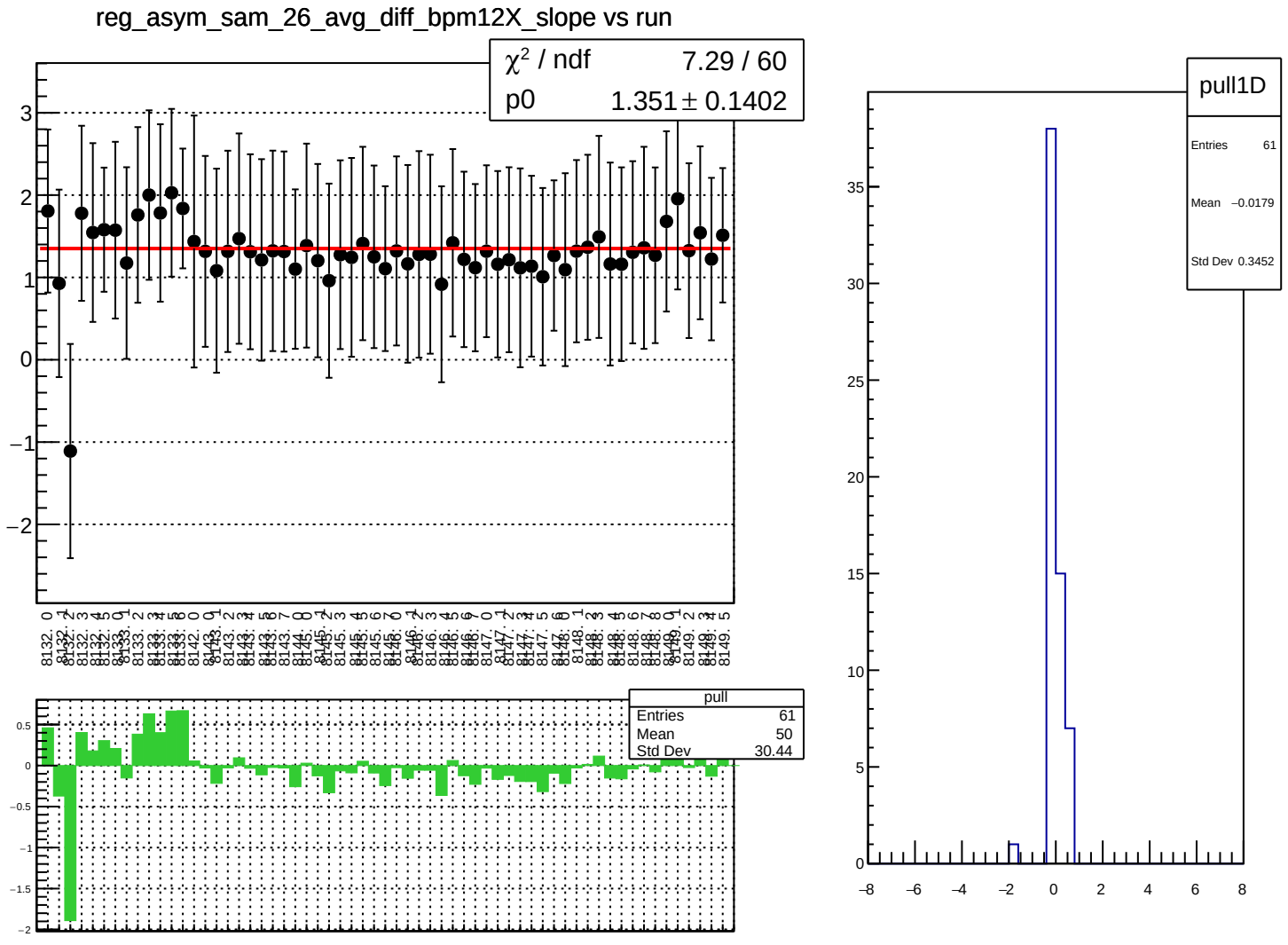

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.958 / 60
p0 −37.07 ± 3.156
pull
Entries 61
Mean −20.43
Std Dev 62.48

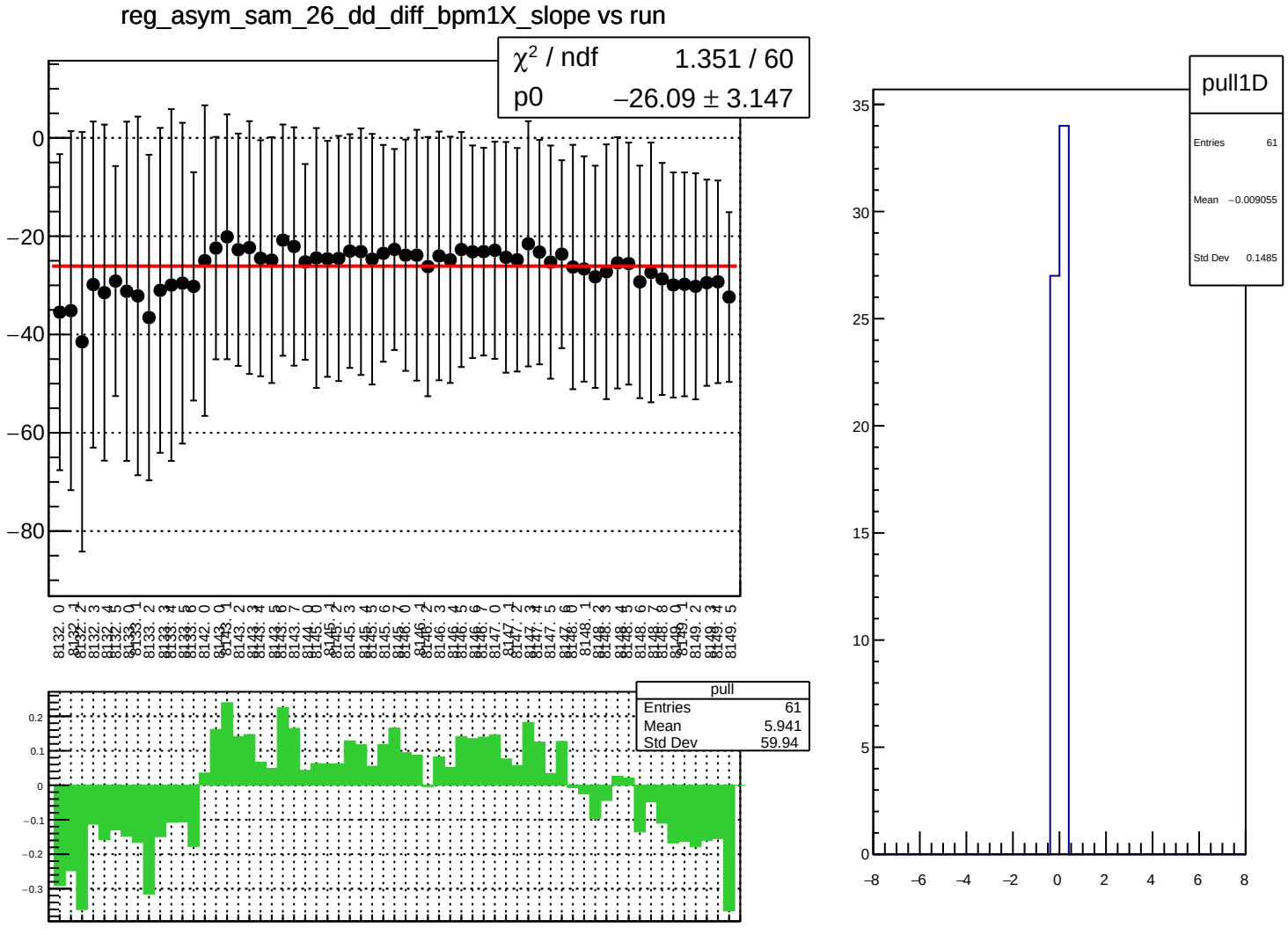

pull1D
Entries 61
Mean 0.02846
Std Dev 0.3365

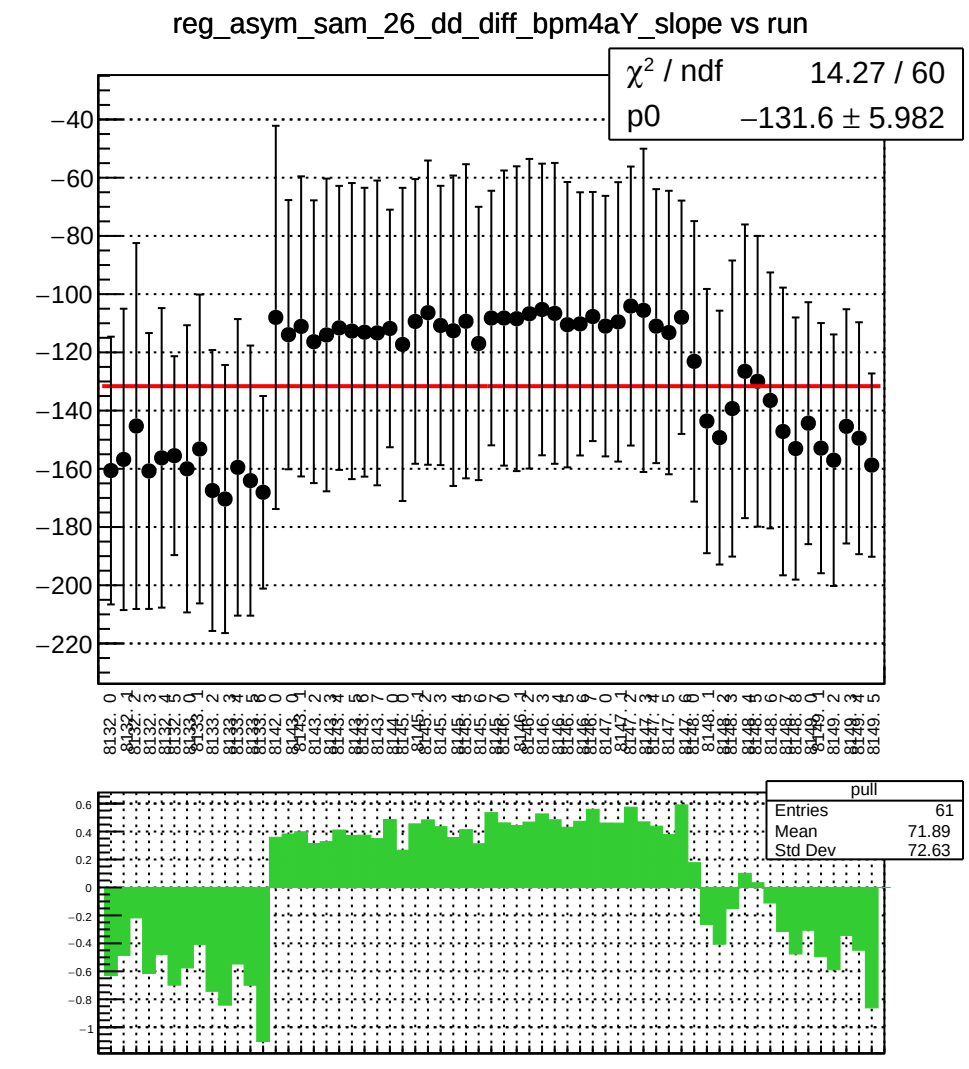

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.02 / 60
p0 −67.72 ± 1.663
pull
Entries 61
Mean −52.42
Std Dev 66.52
pull1D
Entries 61
Mean 0.03932
Std Dev 0.4603

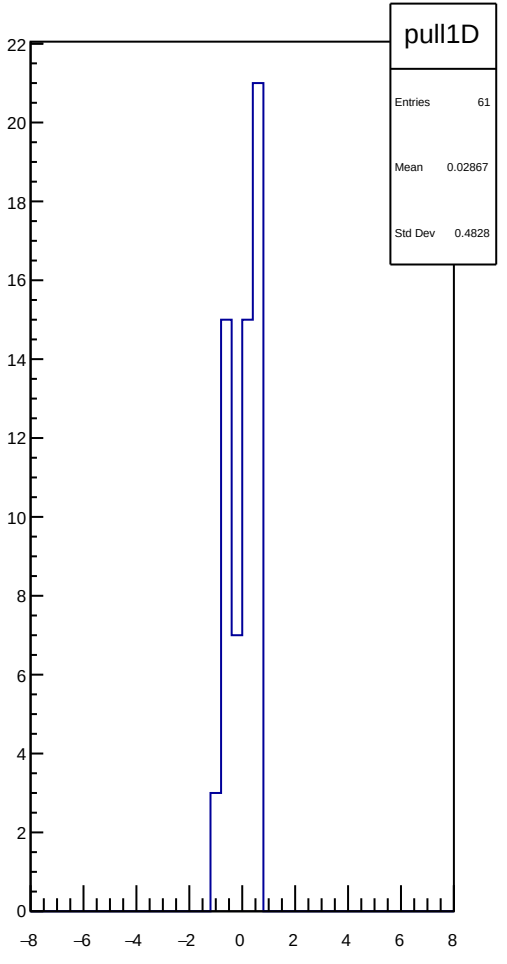

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.962 / 60
p0 −5.307 ± 3.376
pull
Entries 61
Mean −6.092
Std Dev 52.56

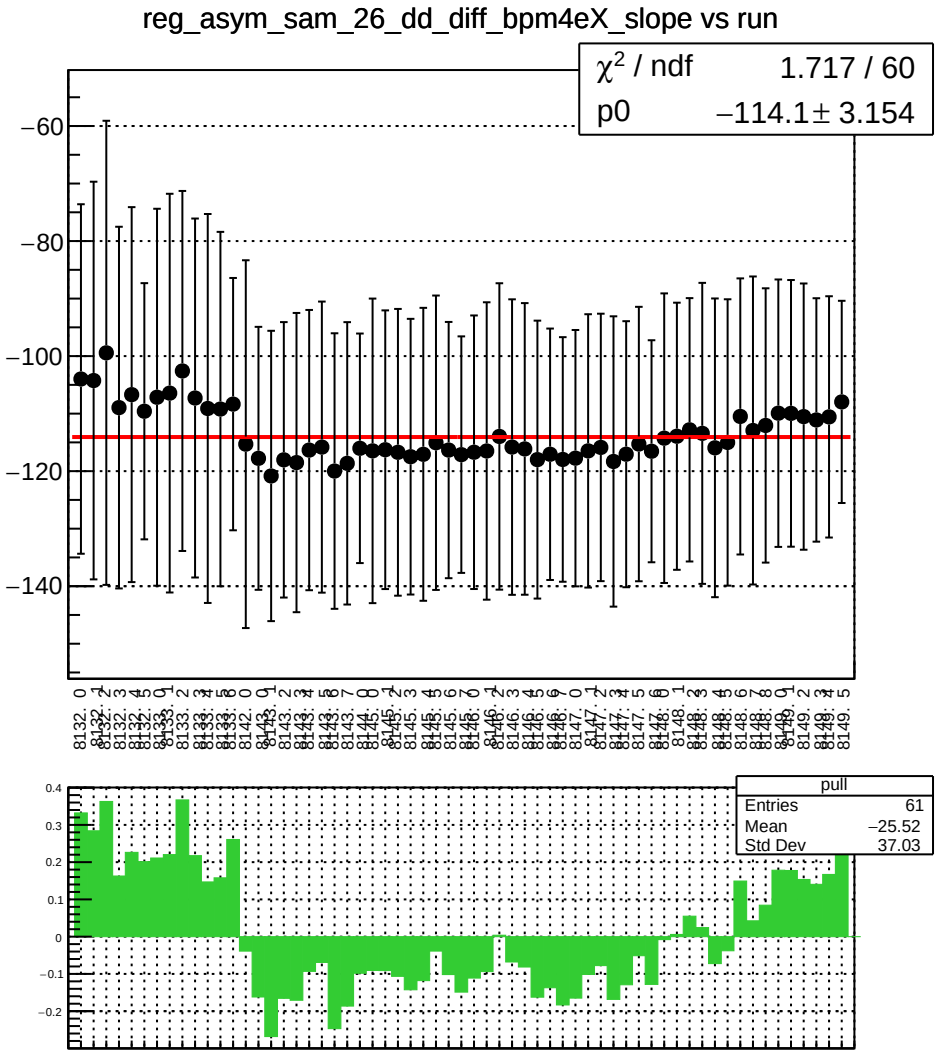

pull1D
Entries 61
Mean −0.03293
Std Dev 0.3819

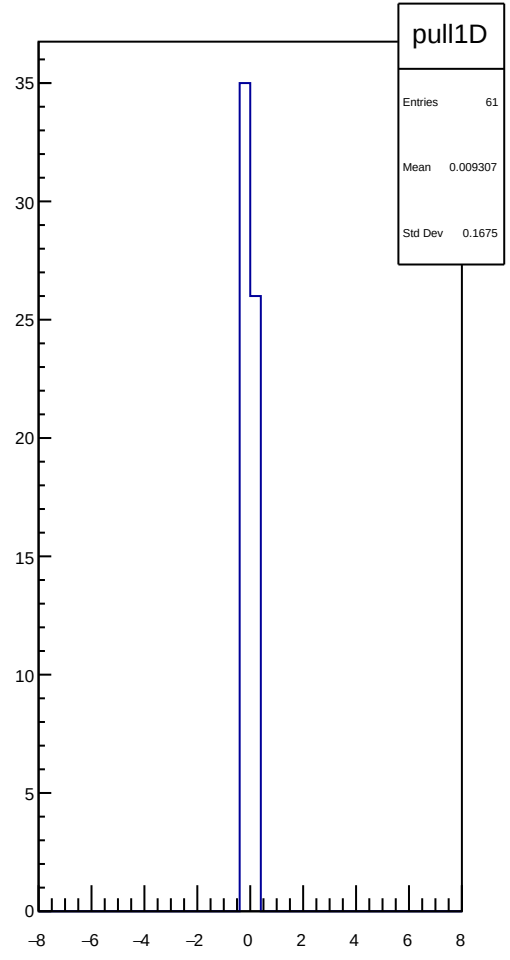

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 7.29 / 60
p0 1.351 ± 0.1402
pull
Entries 61
Mean 50
Std Dev 30.44
pull1D
Entries 61
Mean −0.0179
Std Dev 0.3452

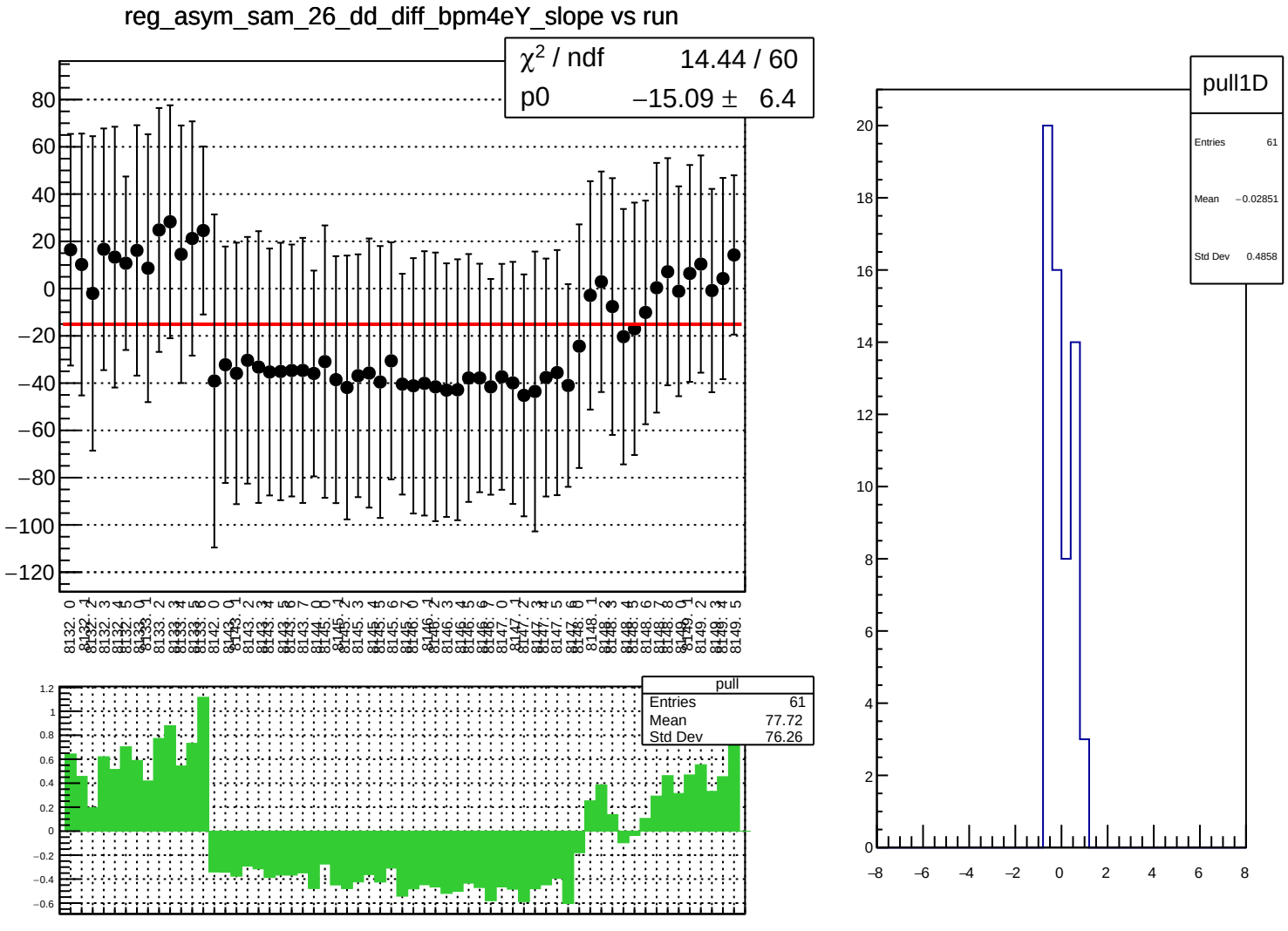

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.351 / 60
p0 −26.09 ± 3.147
pull
Entries 61
Mean 5.941
Std Dev 59.94
pull1D
Entries 61
Mean −0.009055
Std Dev 0.1485

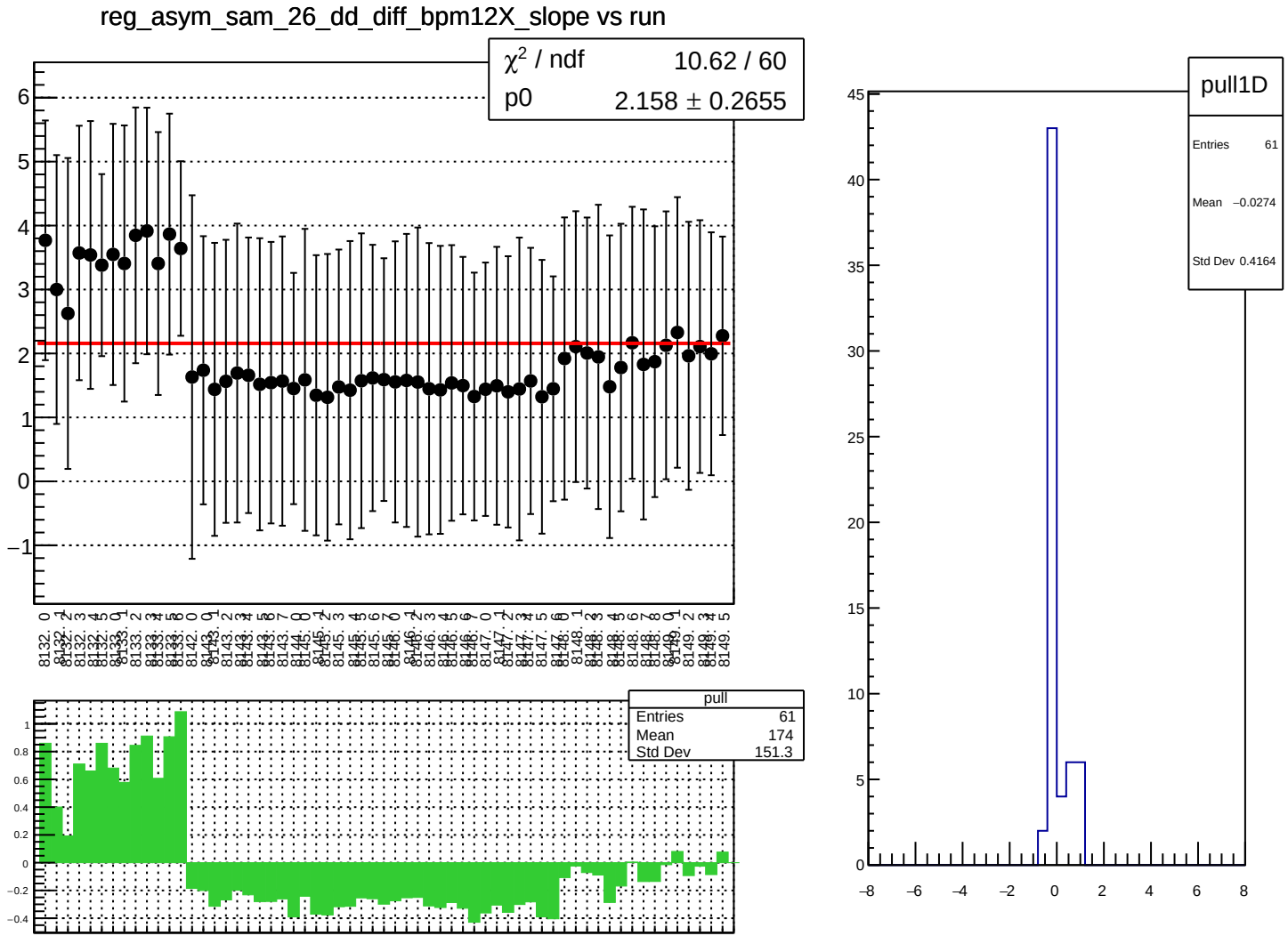

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.27 / 60
p0 −131.6 ± 5.982
pull
Entries 61
Mean 71.89
Std Dev 72.63

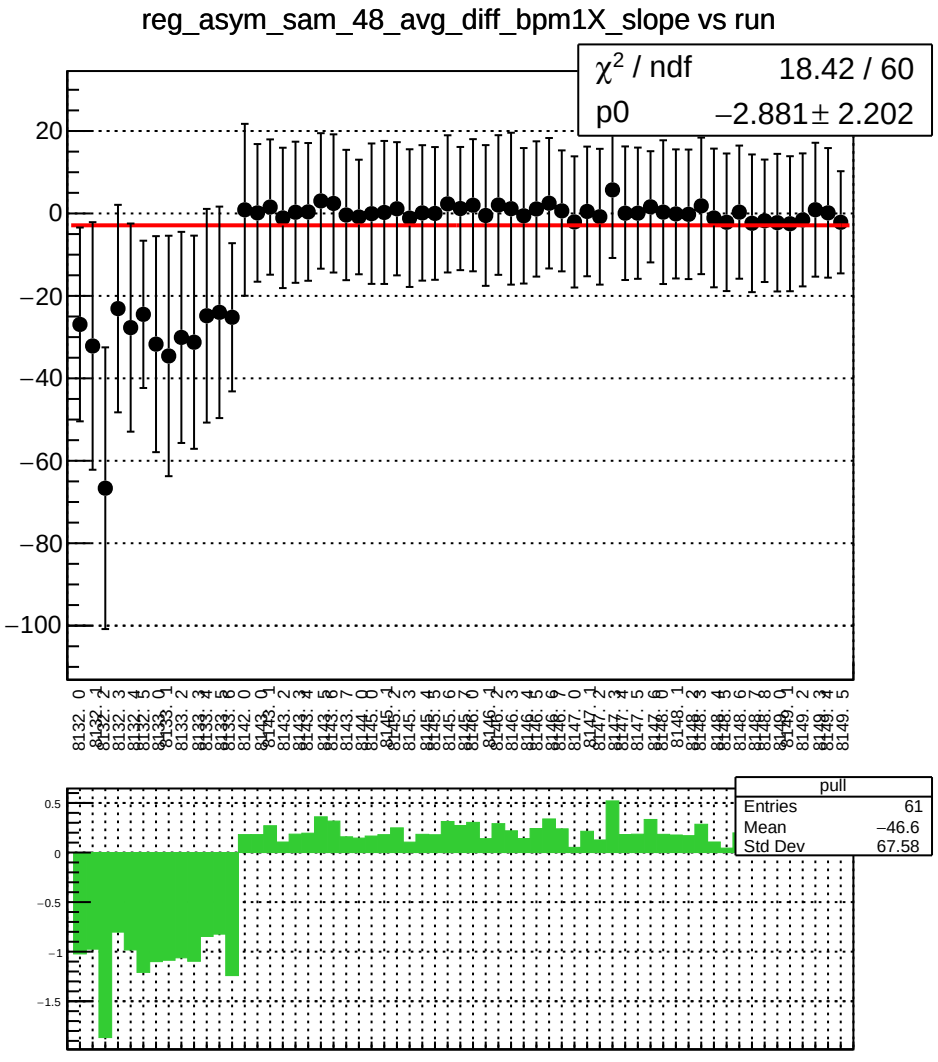

pull1D
Entries 61
Mean 0.02867
Std Dev 0.4828

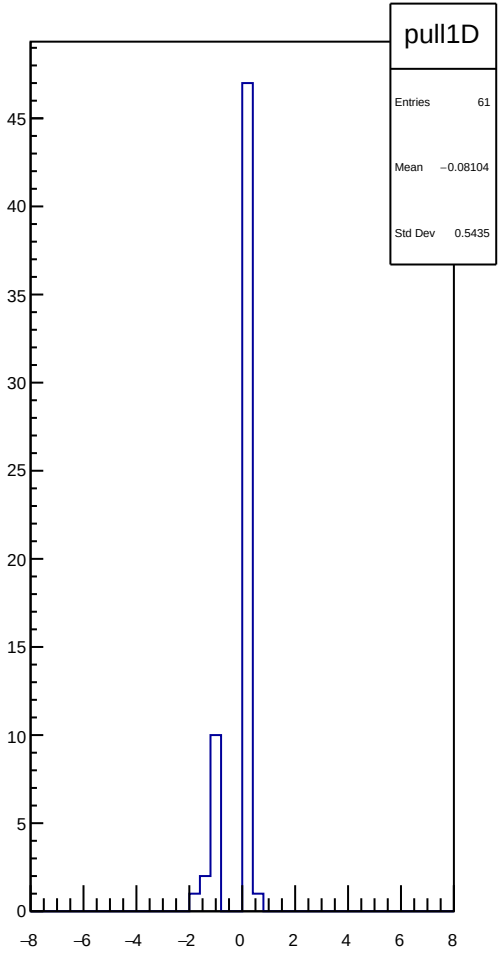

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.717 / 60
p0 −114.1± 3.154
pull
Entries 61
Mean −25.52
Std Dev 37.03

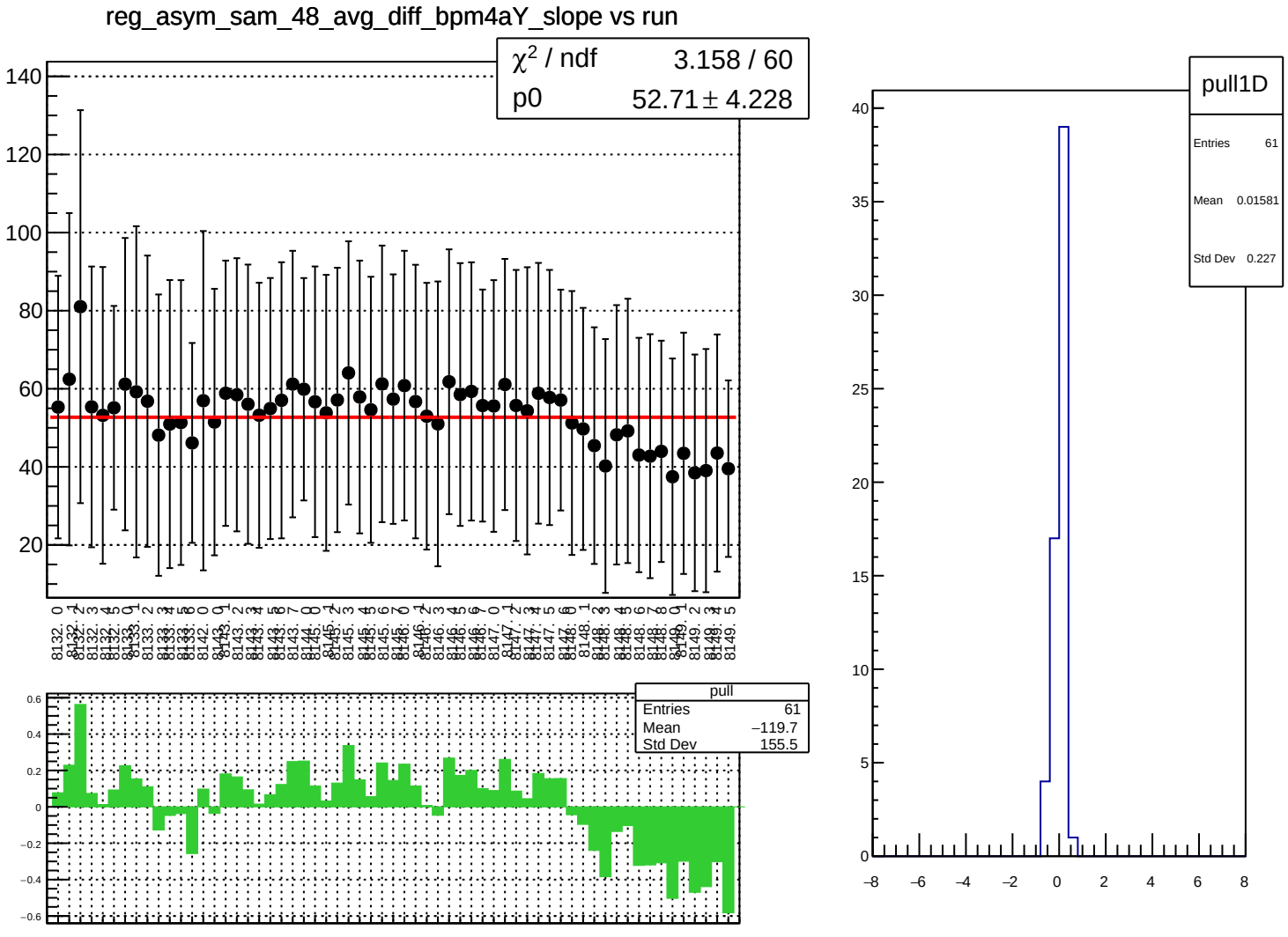

pull1D
Entries 61
Mean 0.009307
Std Dev 0.1675

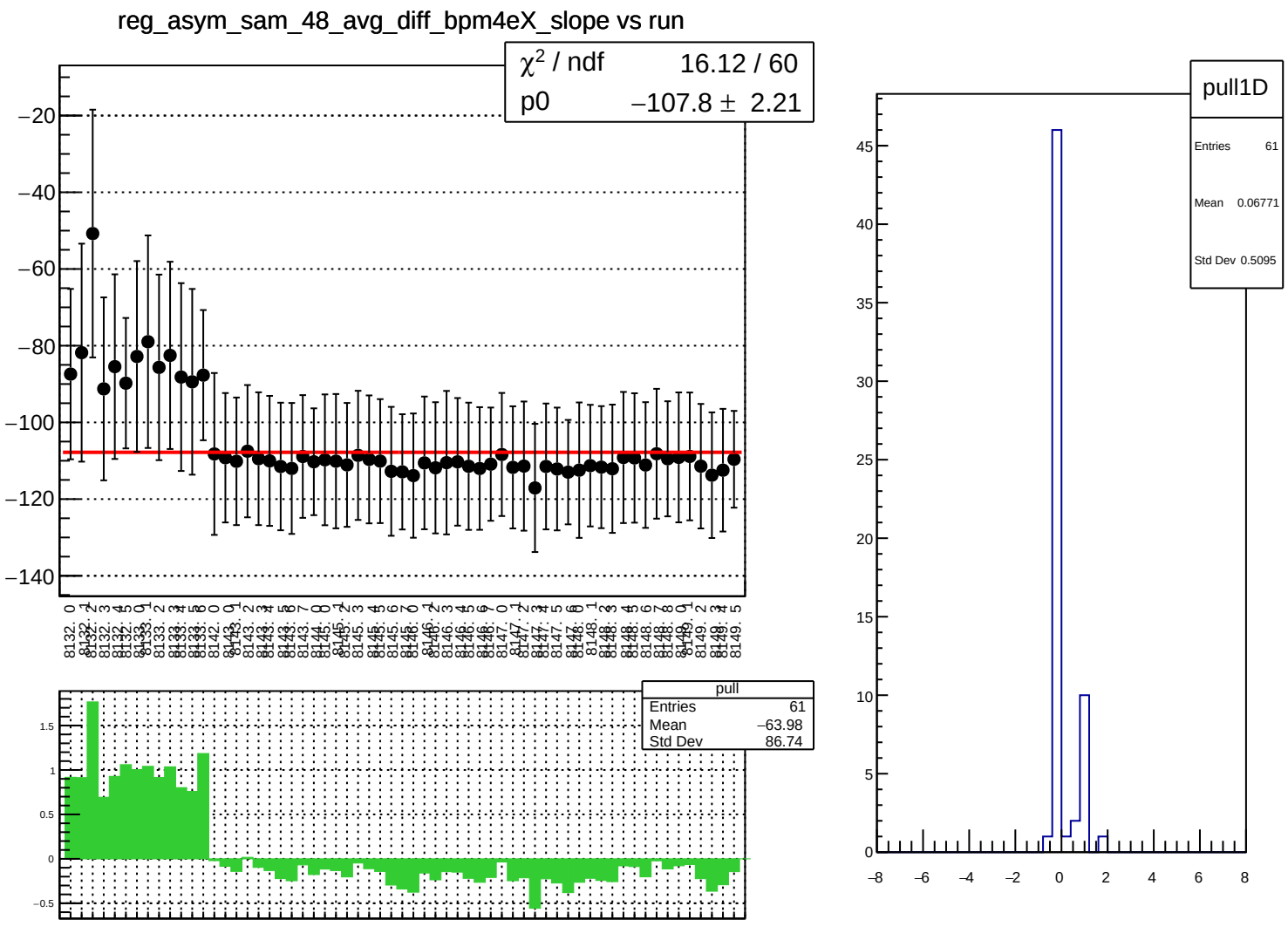

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.44 / 60
p0 −15.09 ± 6.4
pull
Entries 61
Mean 77.72
Std Dev 76.26
pull1D
Entries 61
Mean −0.02851
Std Dev 0.4858

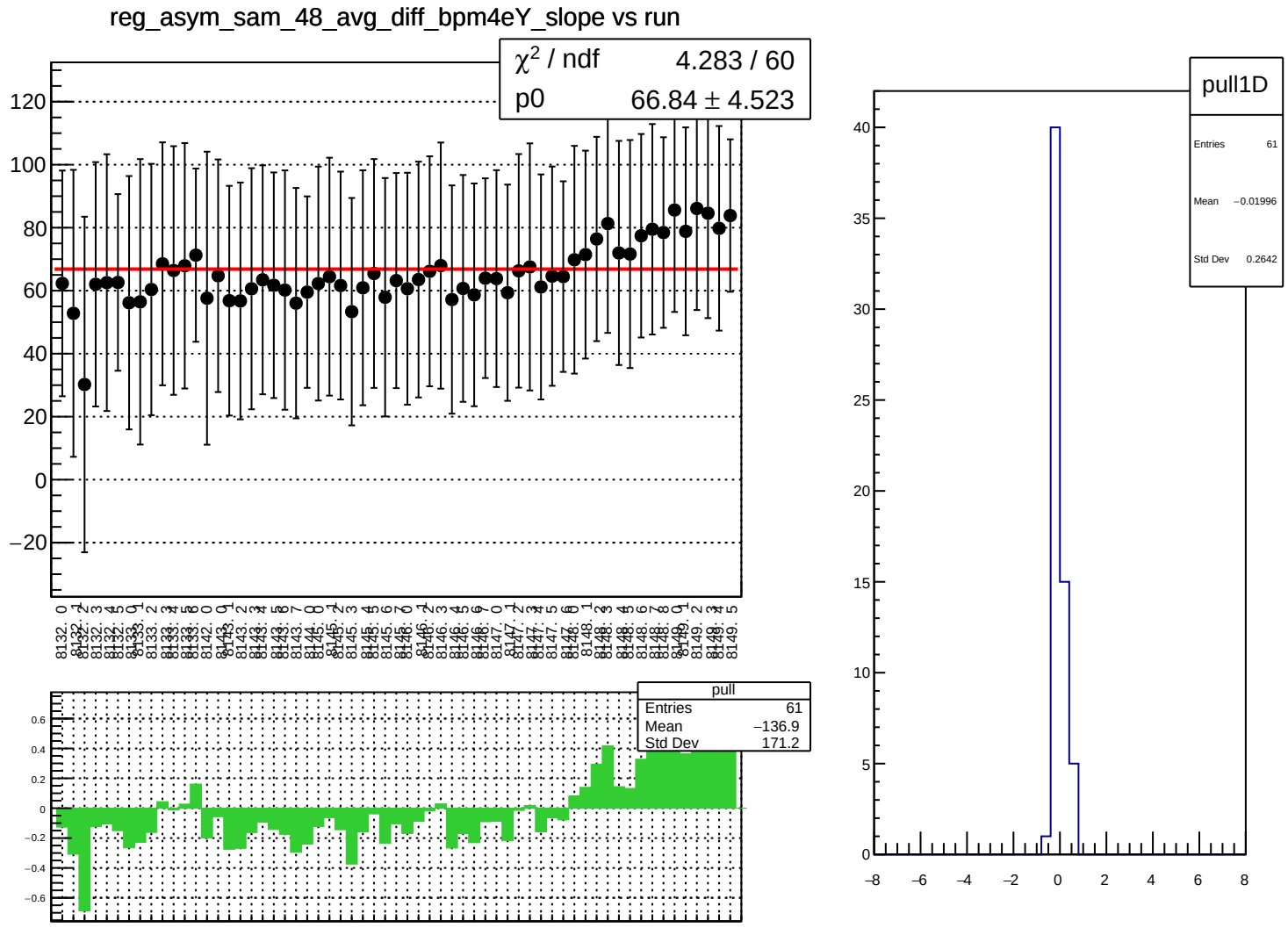

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 10.62 / 60
p0 2.158 ± 0.2655
pull
Entries 61
Mean 174
Std Dev 151.3
pull1D
Entries 61
Mean −0.0274
Std Dev 0.4164

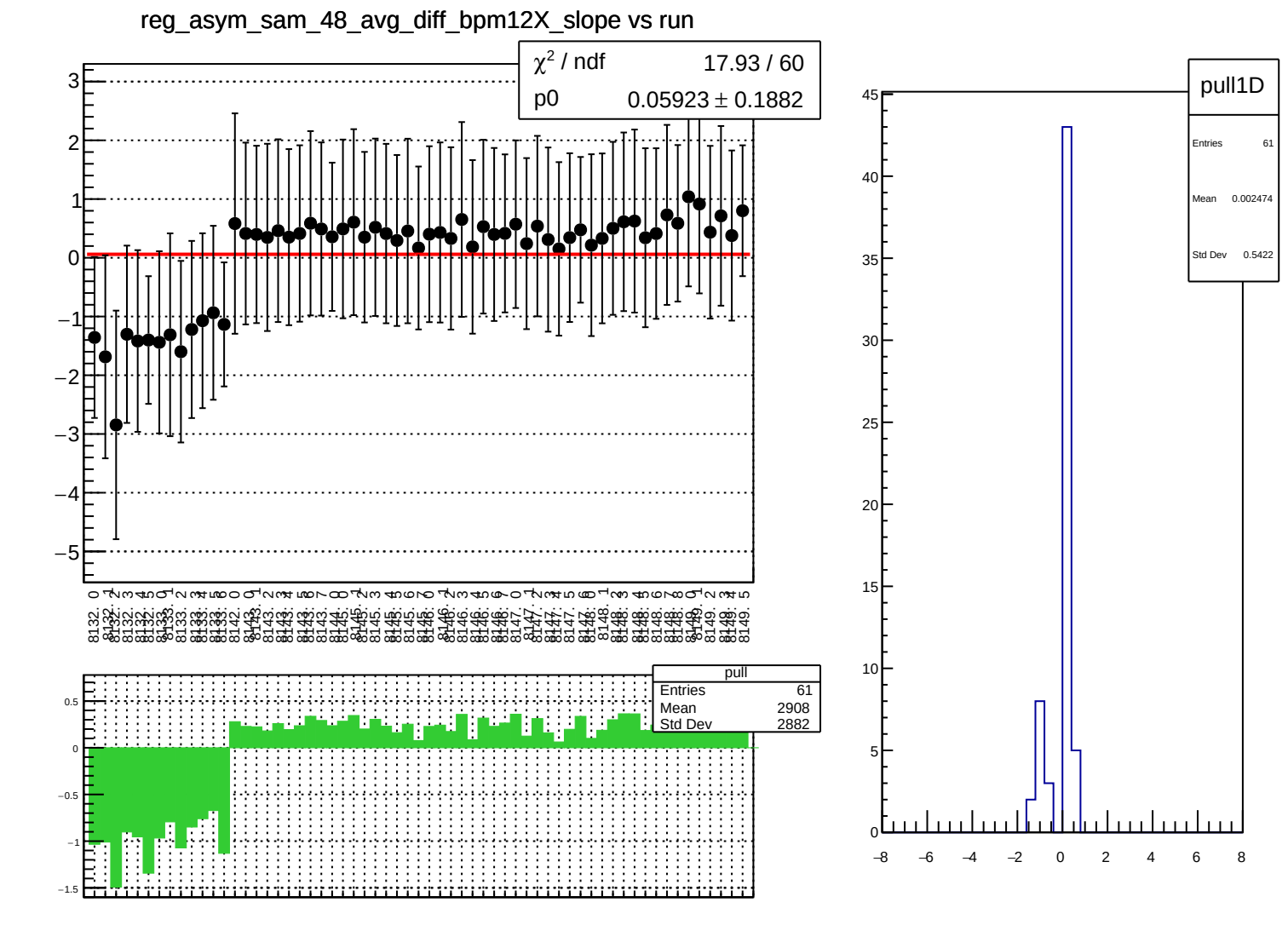

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 18.42 / 60
p0 −2.881 ± 2.202
pull
Entries 61
Mean −46.6
Std Dev 67.58

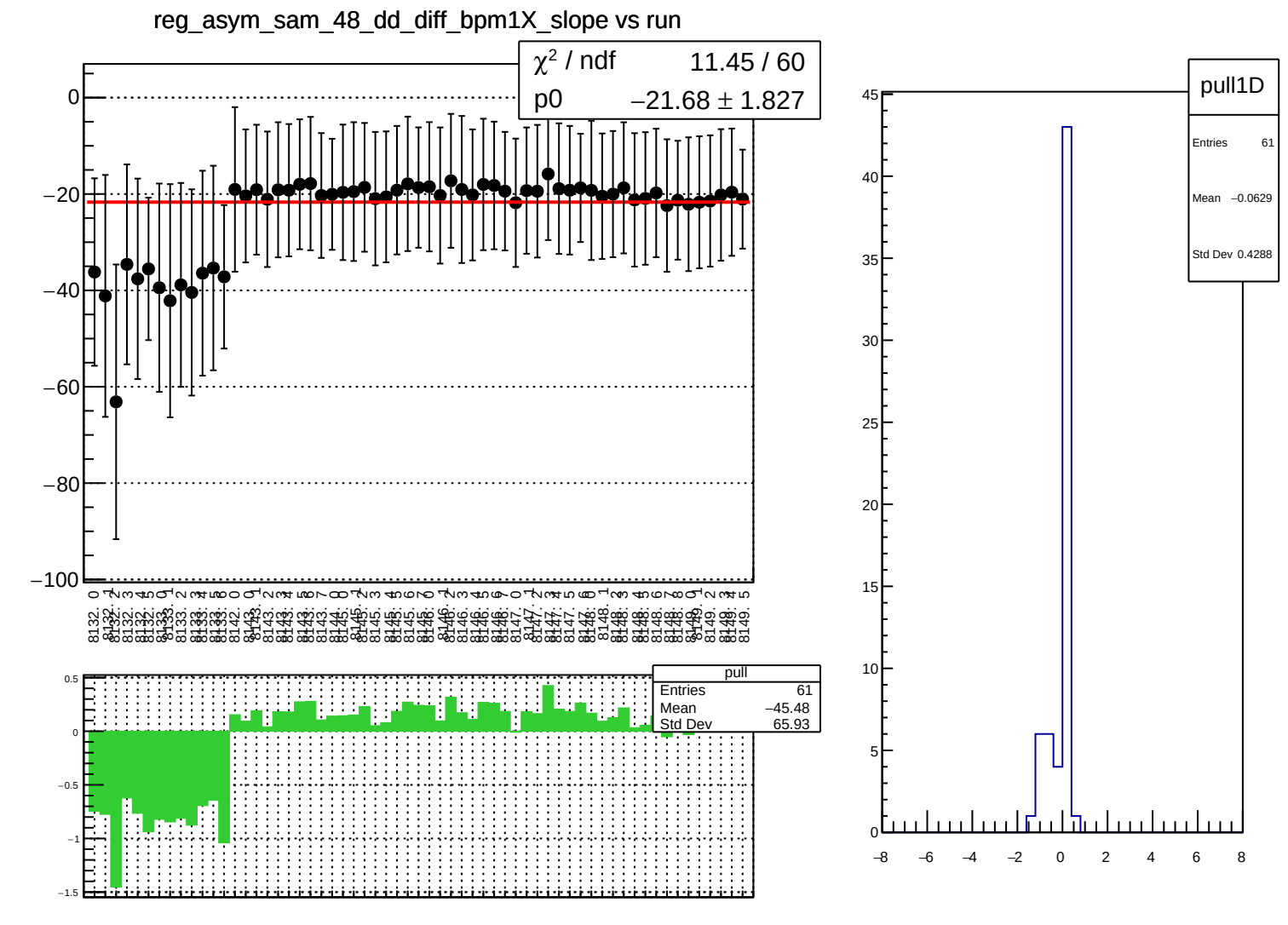

pull1D
Entries 61
Mean −0.08104
Std Dev 0.5435

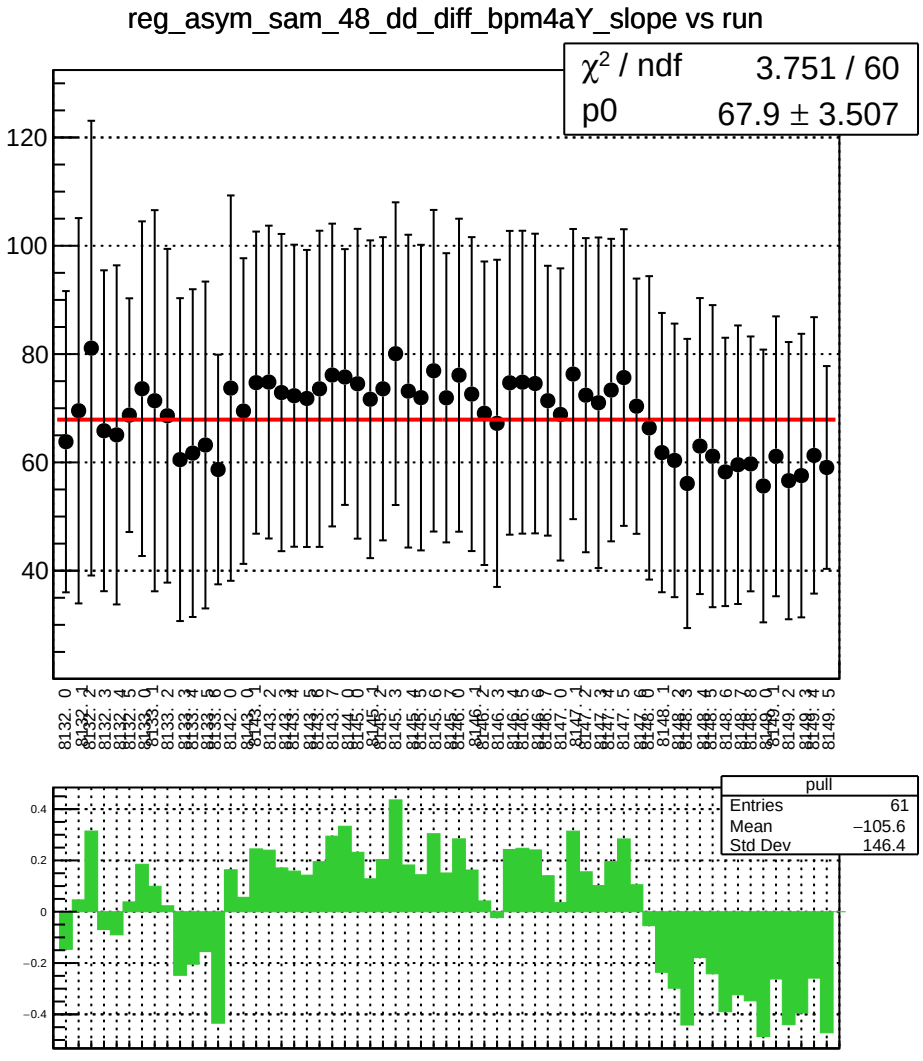

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.158 / 60
p0 52.71 ± 4.228
pull
Entries 61
Mean −119.7
Std Dev 155.5
pull1D
Entries 61
Mean 0.01581
Std Dev 0.227

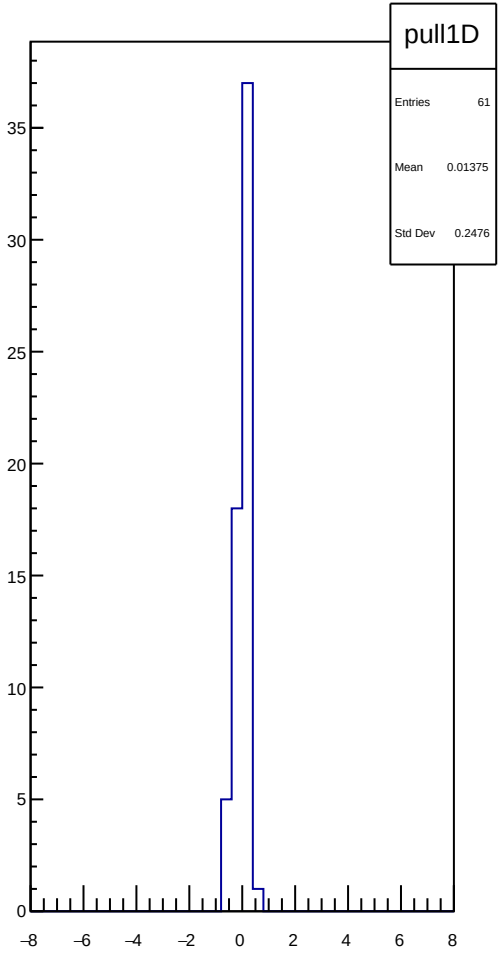

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.12 / 60
p0 −107.8 ± 2.21
pull
Entries 61
Mean −63.98
Std Dev 86.74
pull1D
Entries 61
Mean 0.06771
Std Dev 0.5095

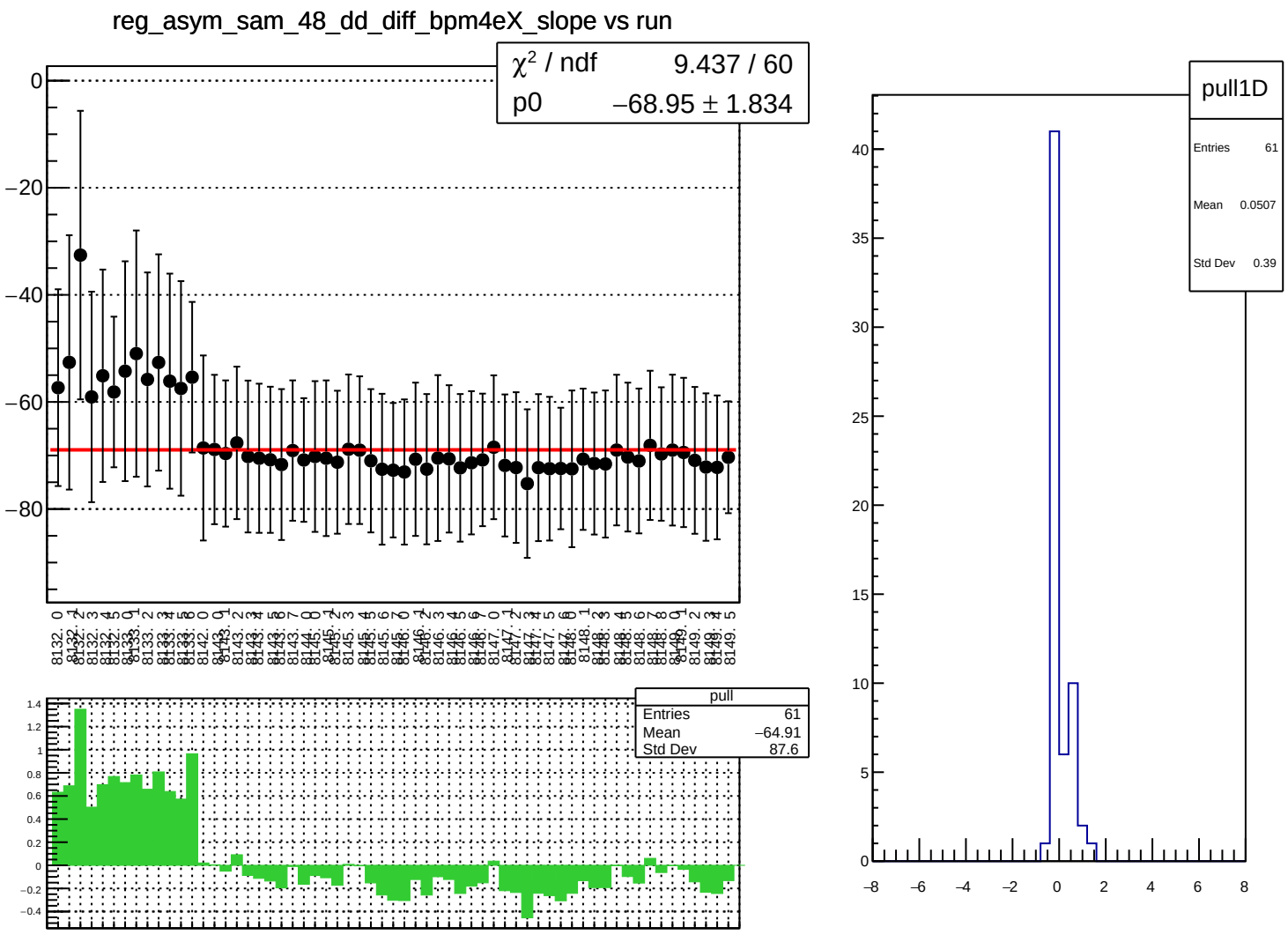

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.283 / 60
p0 66.84 ± 4.523
pull
Entries 61
Mean −136.9
Std Dev 171.2
pull1D
Entries 61
Mean −0.01996
Std Dev 0.2642

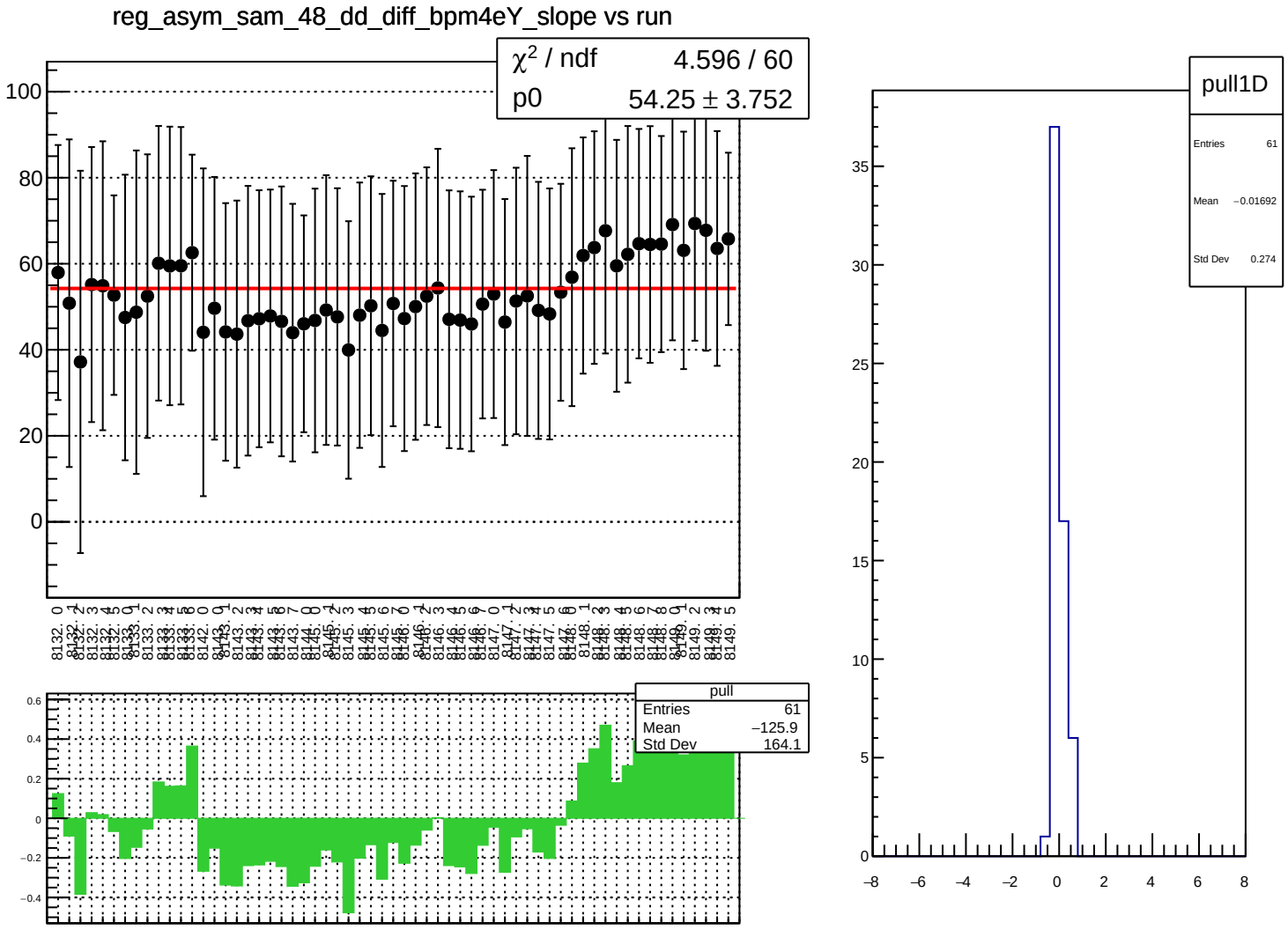

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 17.93 / 60
p0 0.05923 ± 0.1882
pull
Entries 61
Mean 2908
Std Dev 2882
pull1D
Entries 61
Mean 0.002474
Std Dev 0.5422

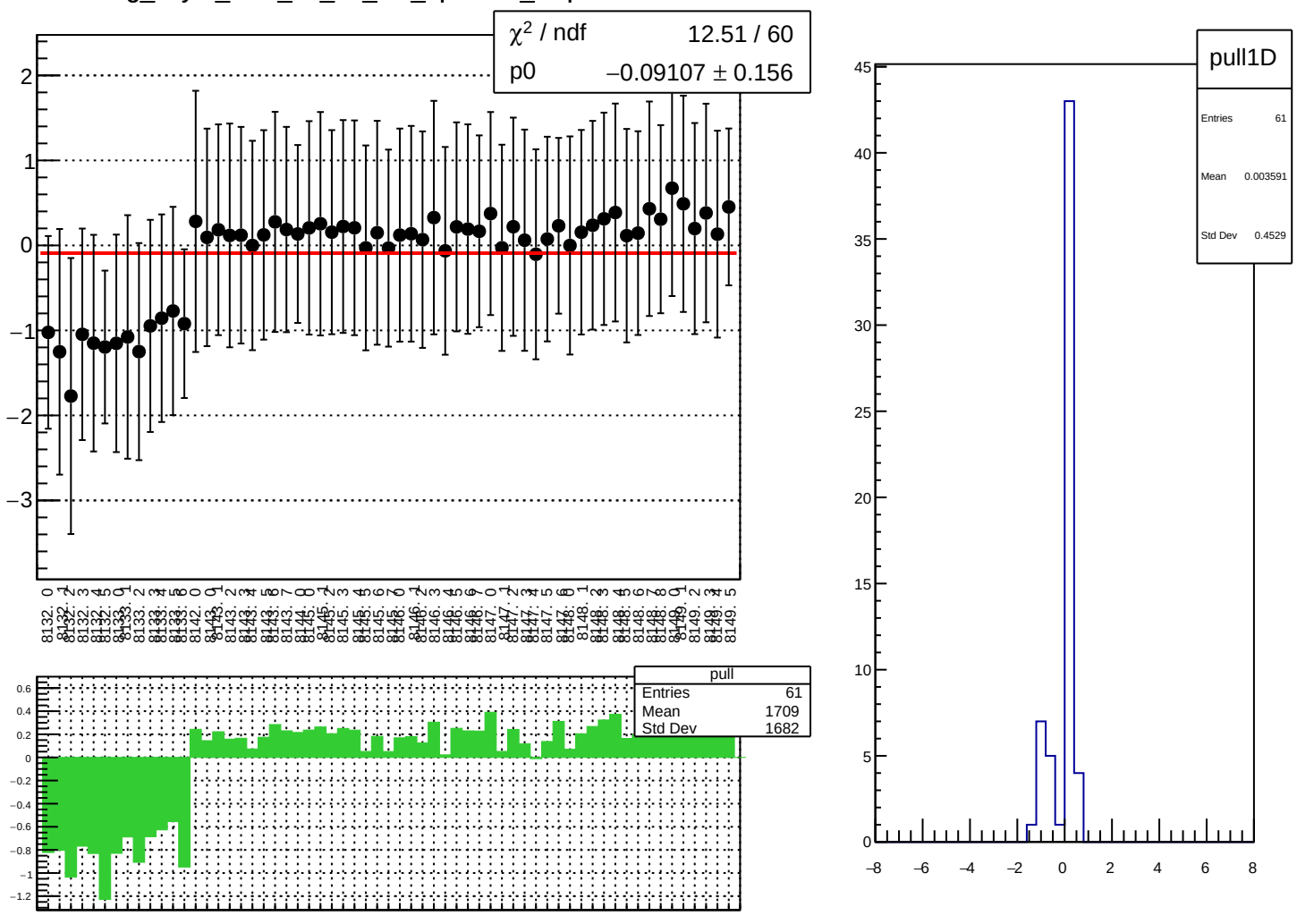

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 11.45 / 60
p0 −21.68 ± 1.827
pull
Entries 61
Mean −45.48
Std Dev 65.93
pull1D
Entries 61
Mean −0.0629
Std Dev 0.4288

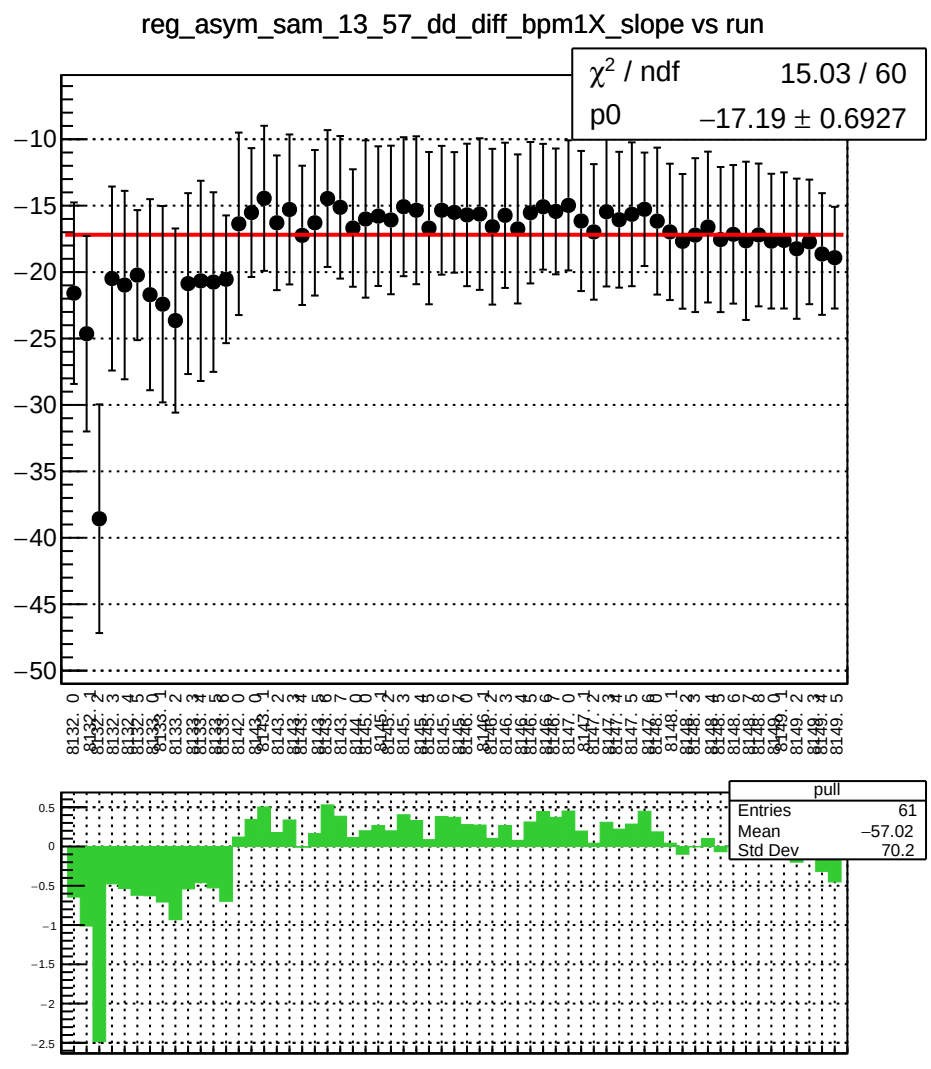

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.751 / 60
p0 67.9 ± 3.507
pull
Entries 61
Mean −105.6
Std Dev 146.4

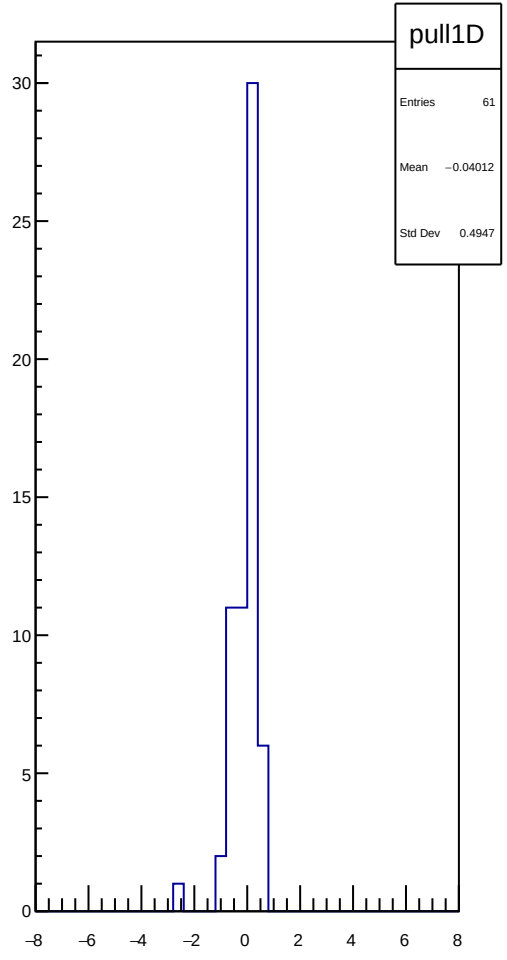

pull1D
Entries 61
Mean 0.01375
Std Dev 0.2476

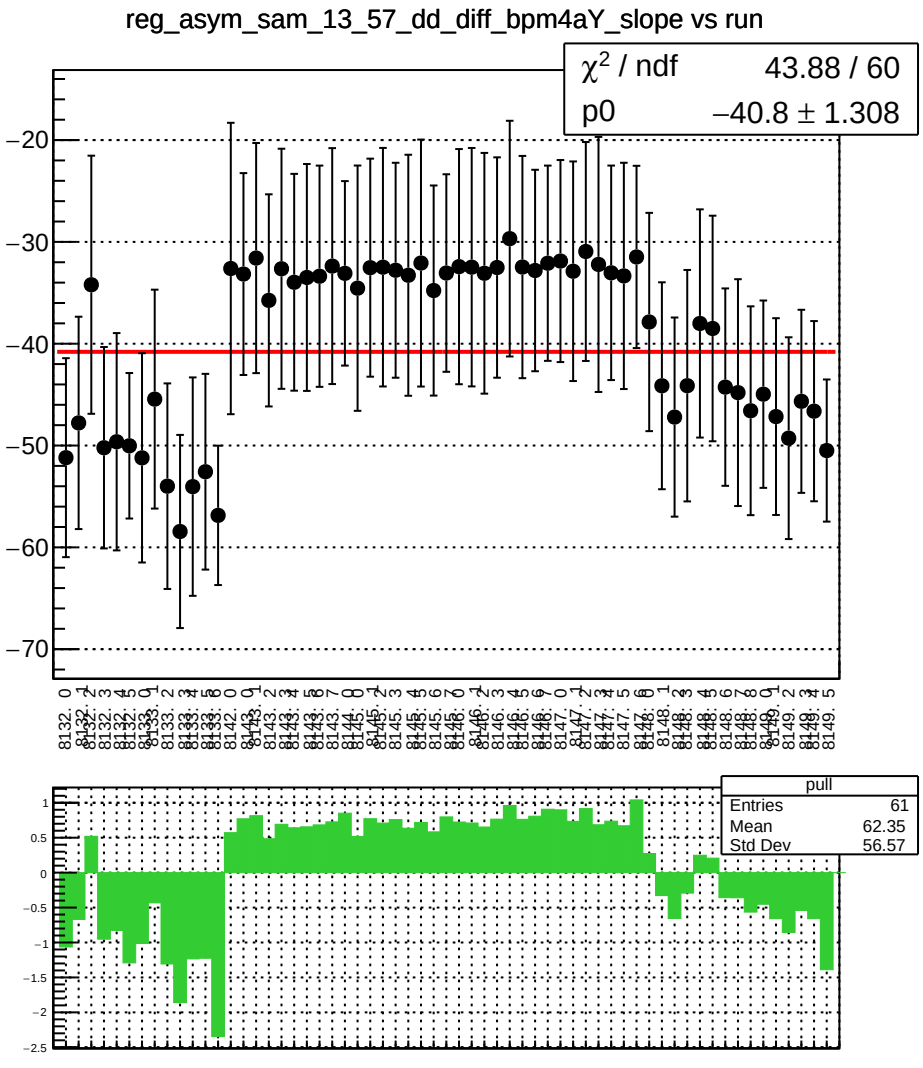

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.437 / 60
p0 −68.95 ± 1.834
pull
Entries 61
Mean −64.91
Std Dev 87.6
pull1D
Entries 61
Mean 0.0507
Std Dev 0.39

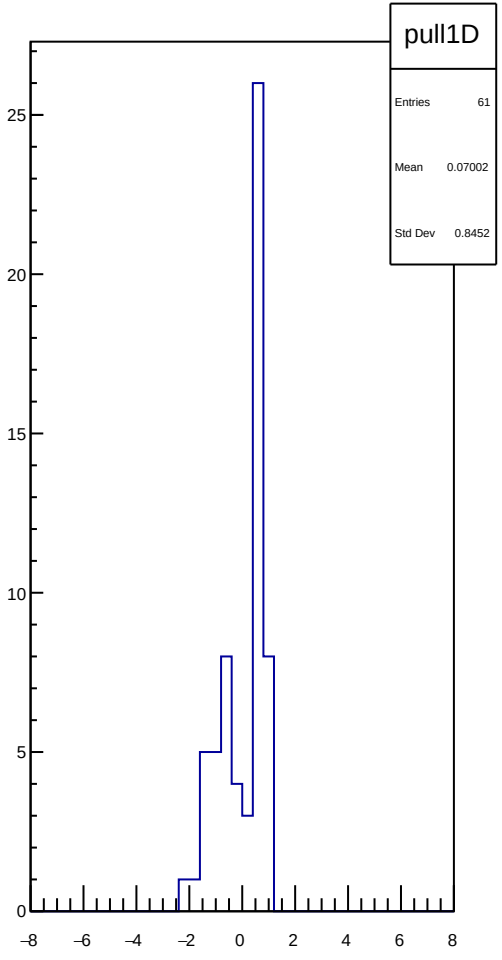

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.596 / 60
p0 54.25 ± 3.752
pull
Entries 61
Mean −125.9
Std Dev 164.1
pull1D
Entries 61
Mean −0.01692
Std Dev 0.274

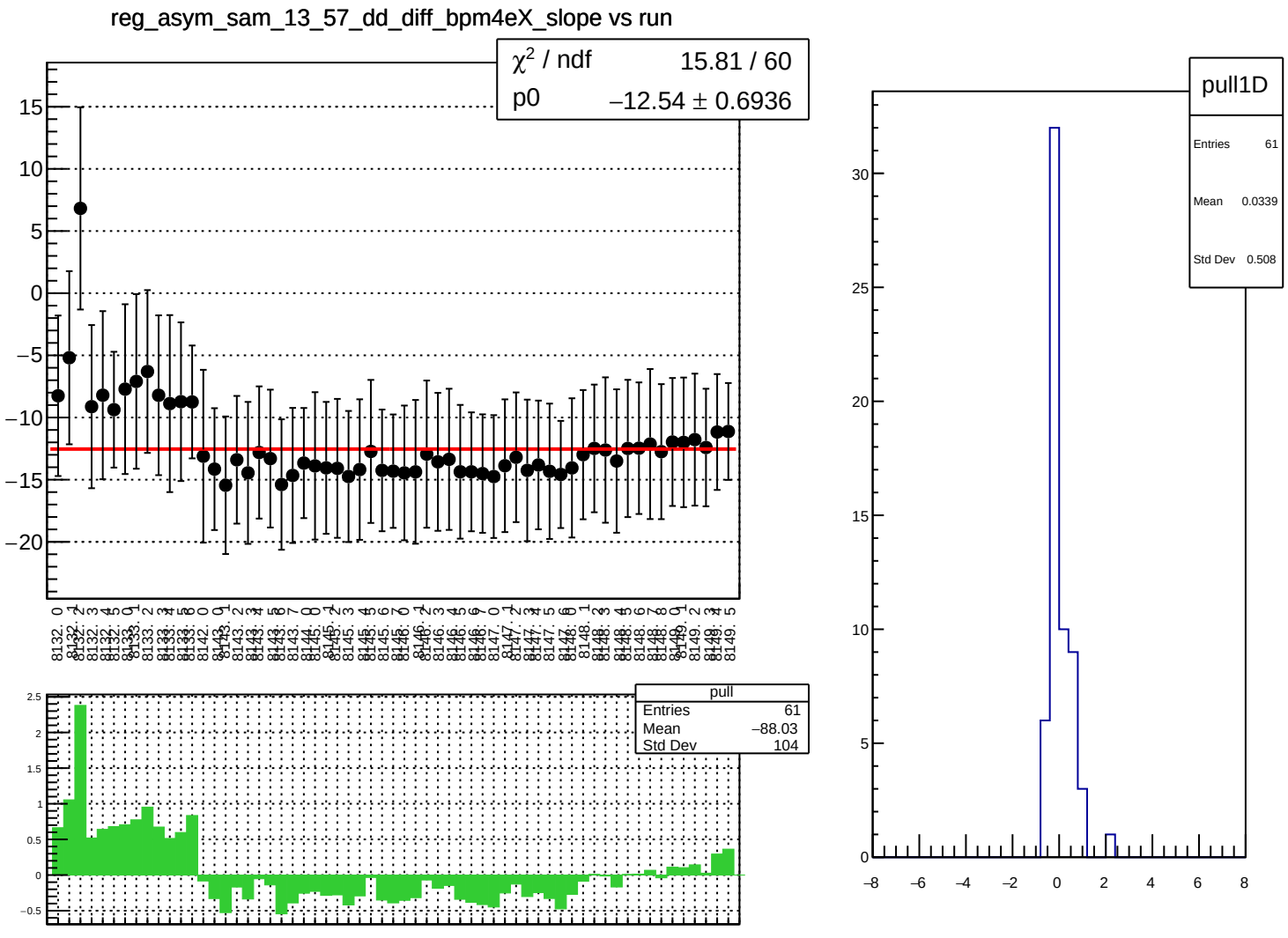

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 12.51 / 60
p0 −0.09107 ± 0.156
pull
Entries 61
Mean 1709
Std Dev 1682
pull1D
Entries 61
Mean 0.003591
Std Dev 0.4529

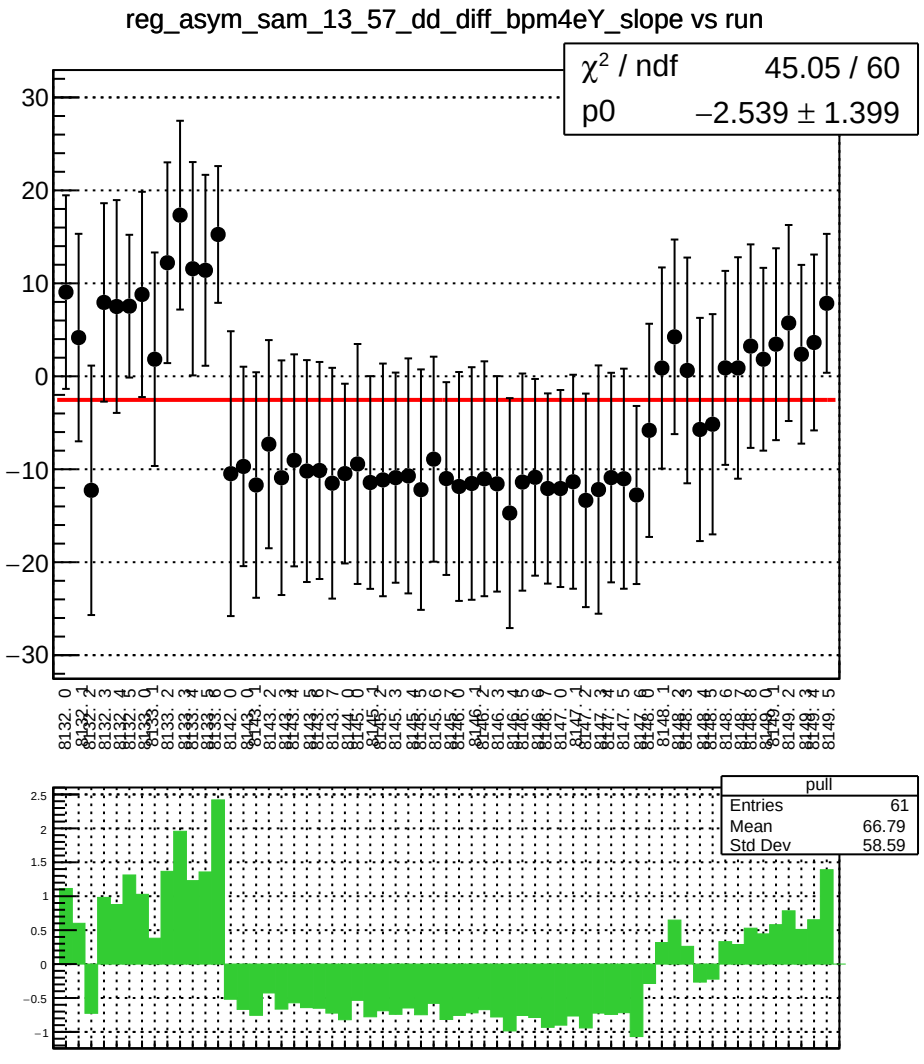

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 15.03 / 60
p0 −17.19 ± 0.6927
pull
Entries 61
Mean −57.02
Std Dev 70.2

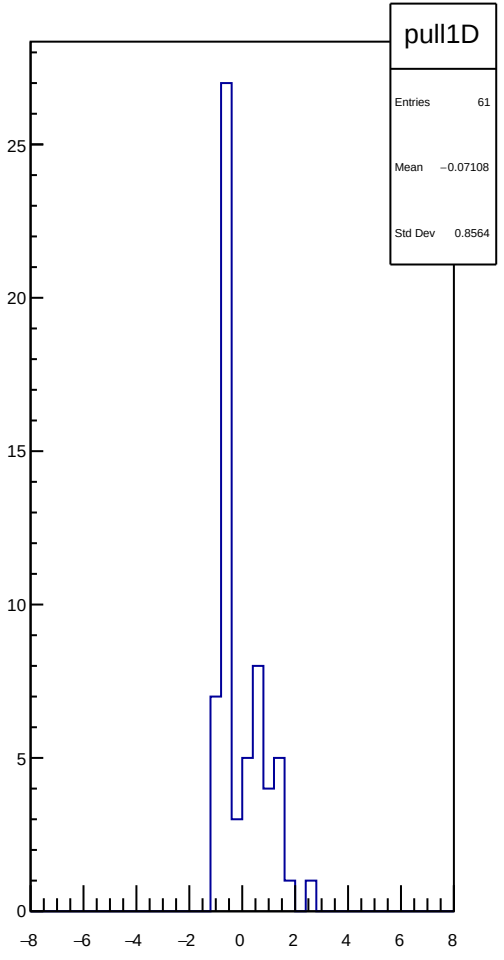

pull1D
Entries 61
Mean −0.04012
Std Dev 0.4947

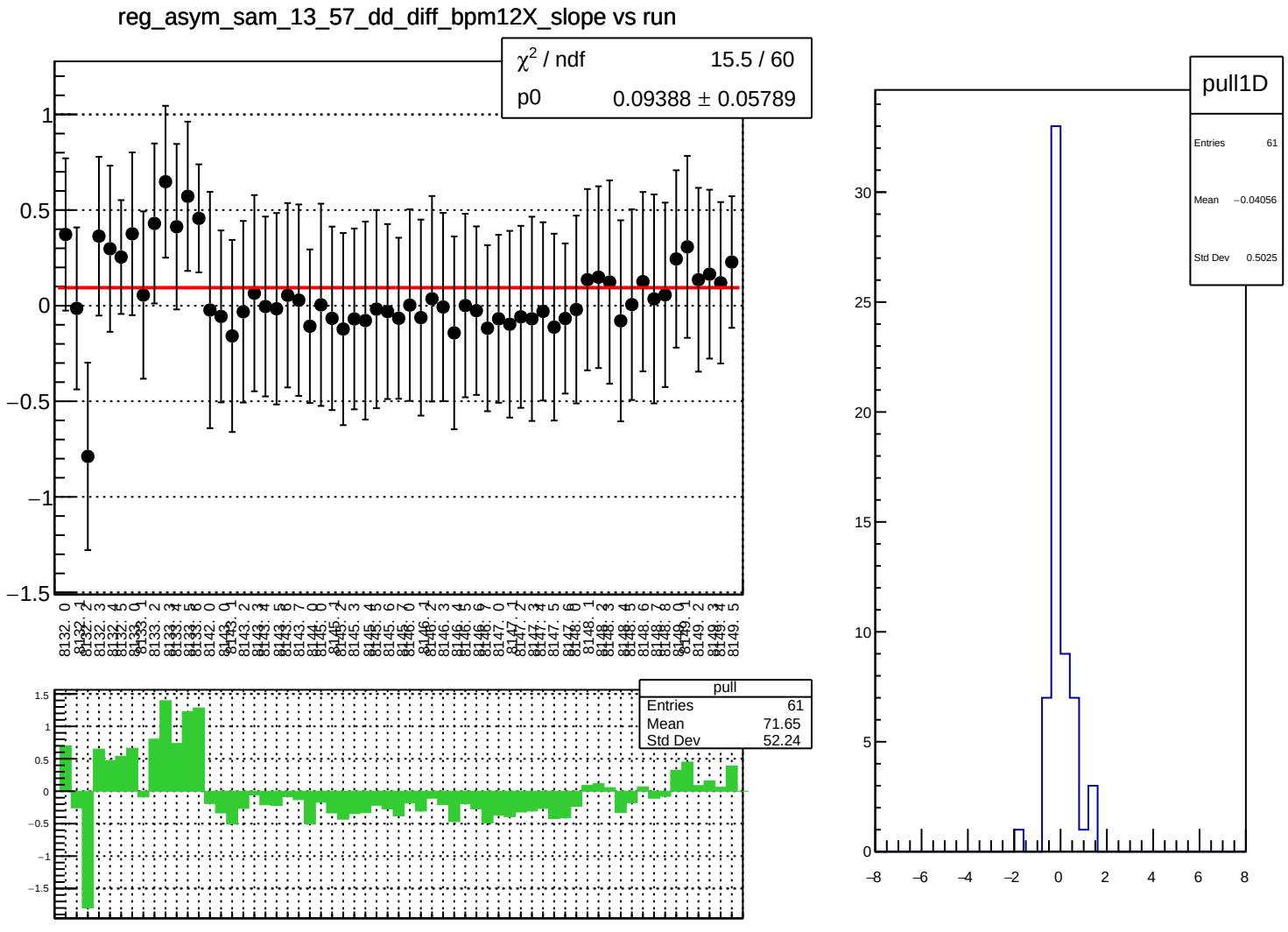

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.88 / 60
p0 −40.8 ± 1.308
pull
Entries 61
Mean 62.35
Std Dev 56.57

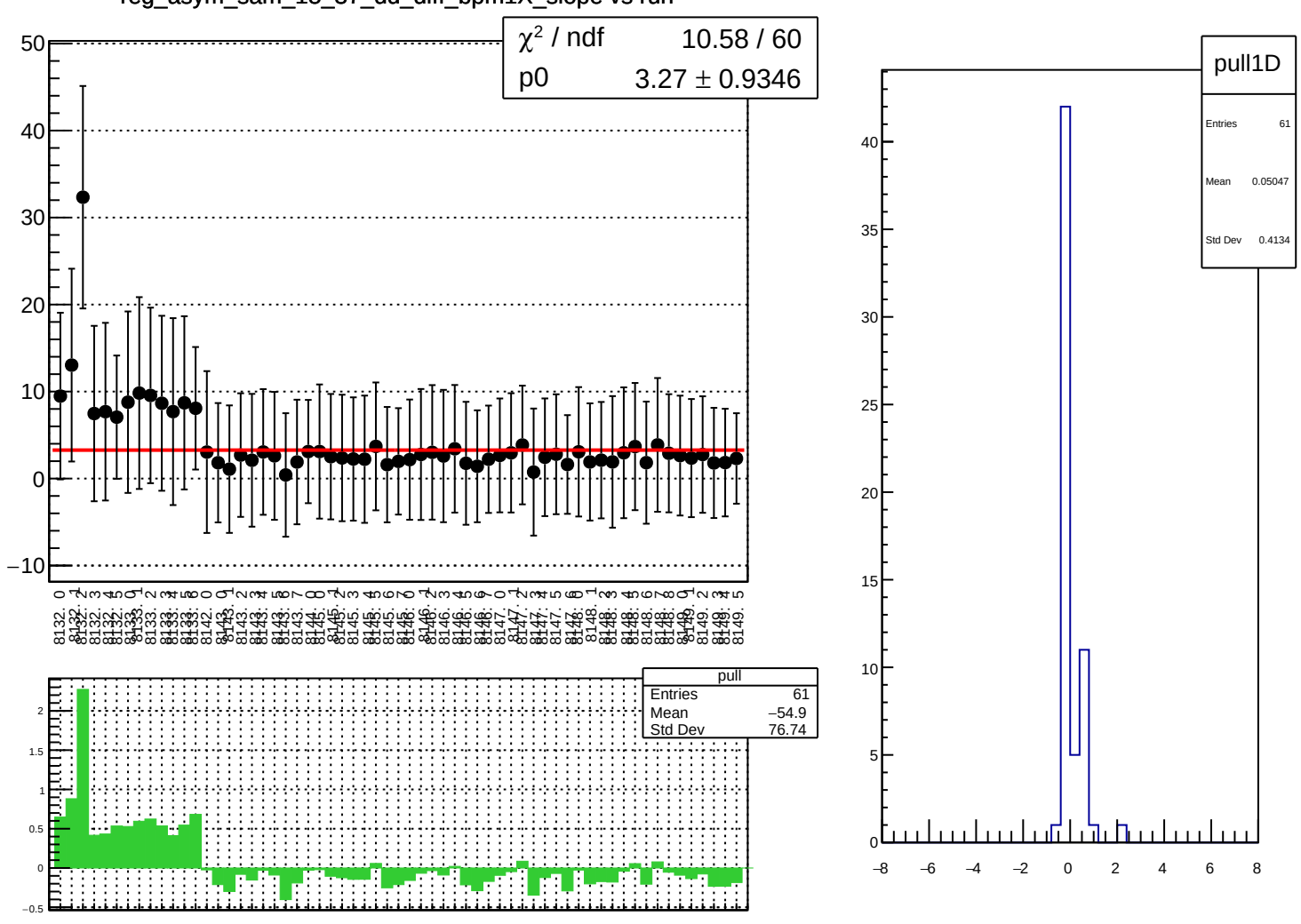

pull1D
Entries 61
Mean 0.07002
Std Dev 0.8452

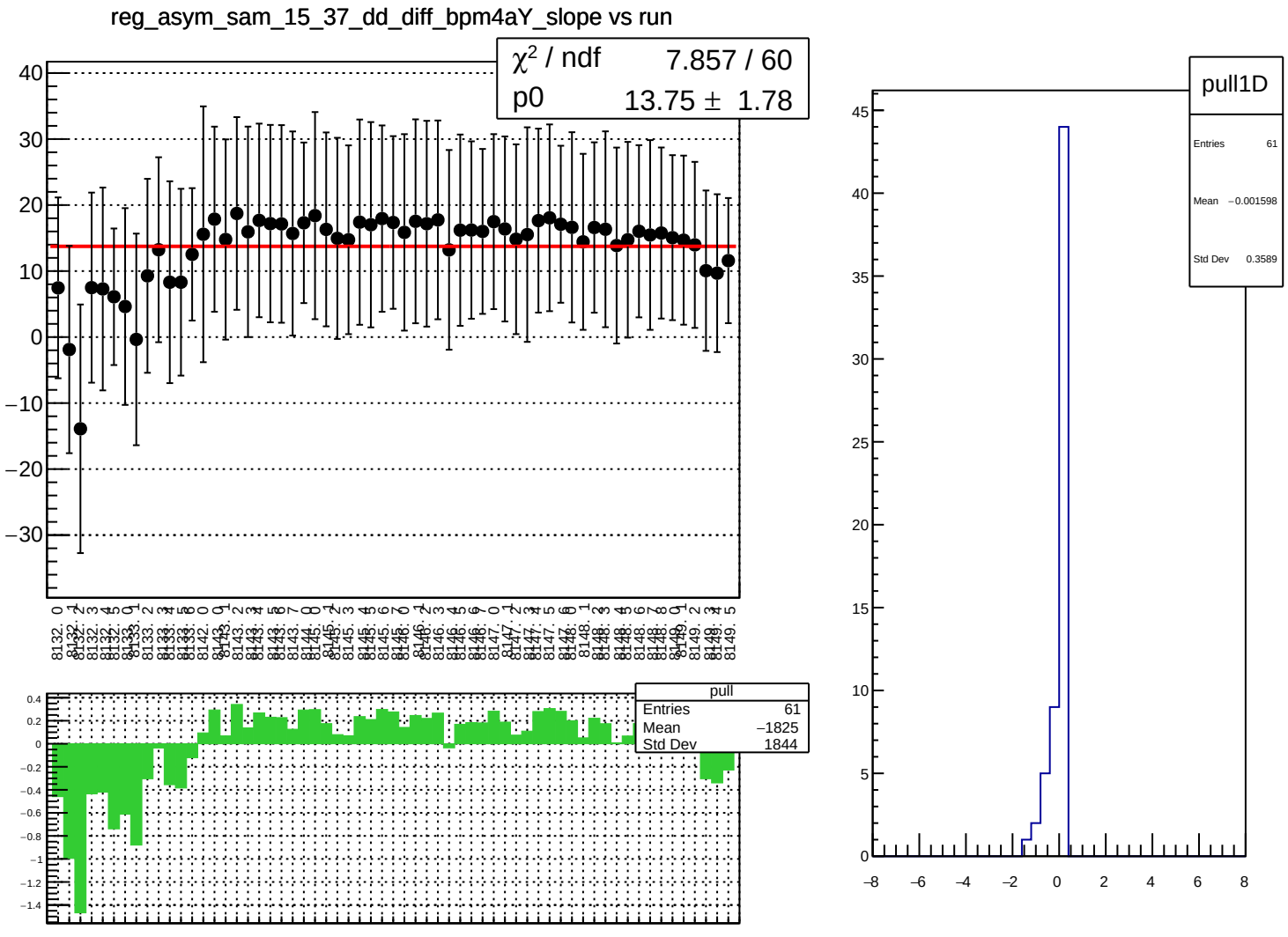

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.81 / 60
p0 −12.54 ± 0.6936
pull
Entries 61
Mean −88.03
Std Dev 104
pull1D
Entries 61
Mean 0.0339
Std Dev 0.508

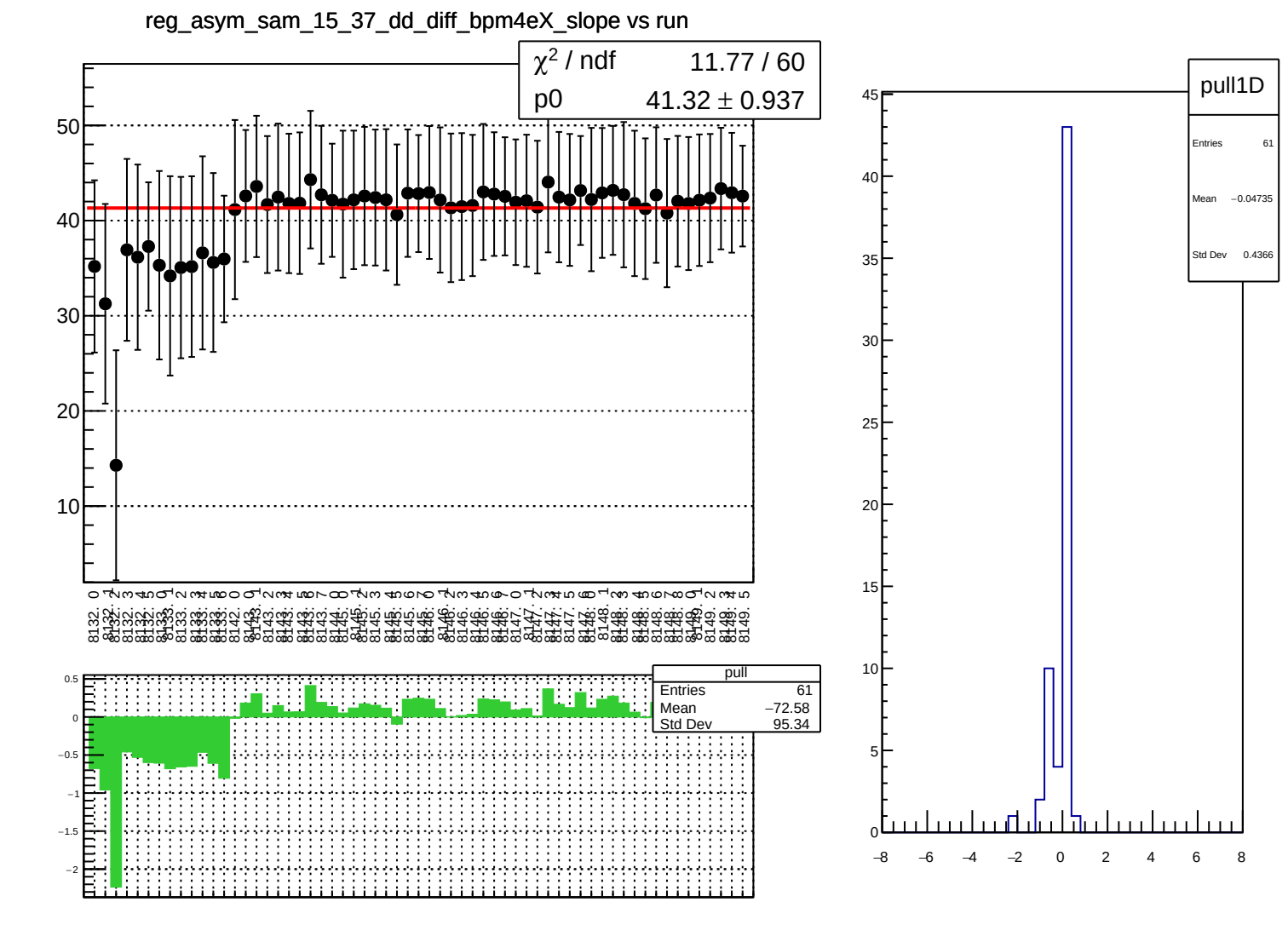

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.05 / 60
p0 −2.539 ± 1.399
pull
Entries 61
Mean 66.79
Std Dev 58.59

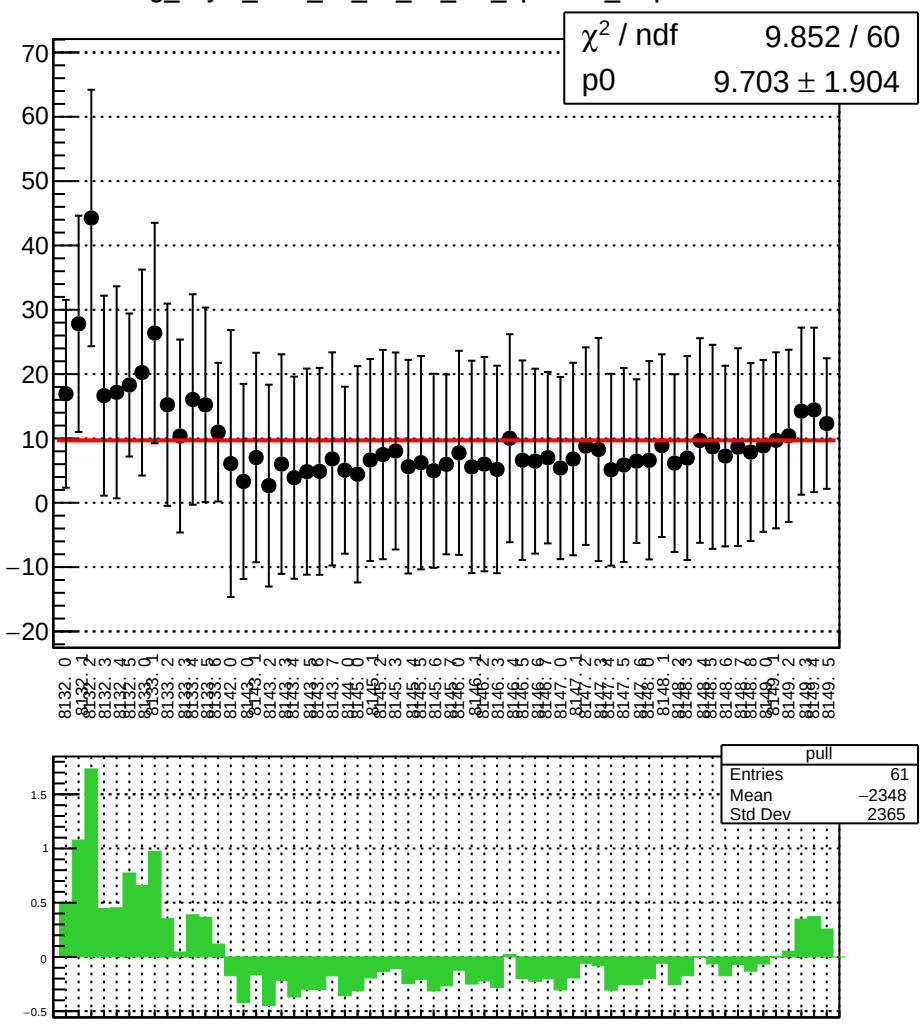

pull1D
Entries 61
Mean −0.07108
Std Dev 0.8564

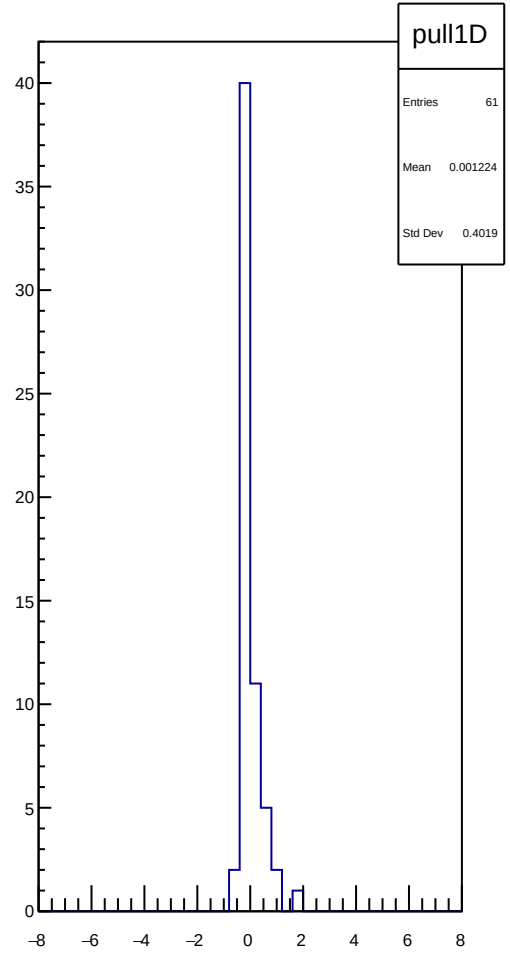

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 15.5 / 60
p0 0.09388 ± 0.05789
pull
Entries 61
Mean 71.65
Std Dev 52.24
pull1D
Entries 61
Mean −0.04056
Std Dev 0.5025

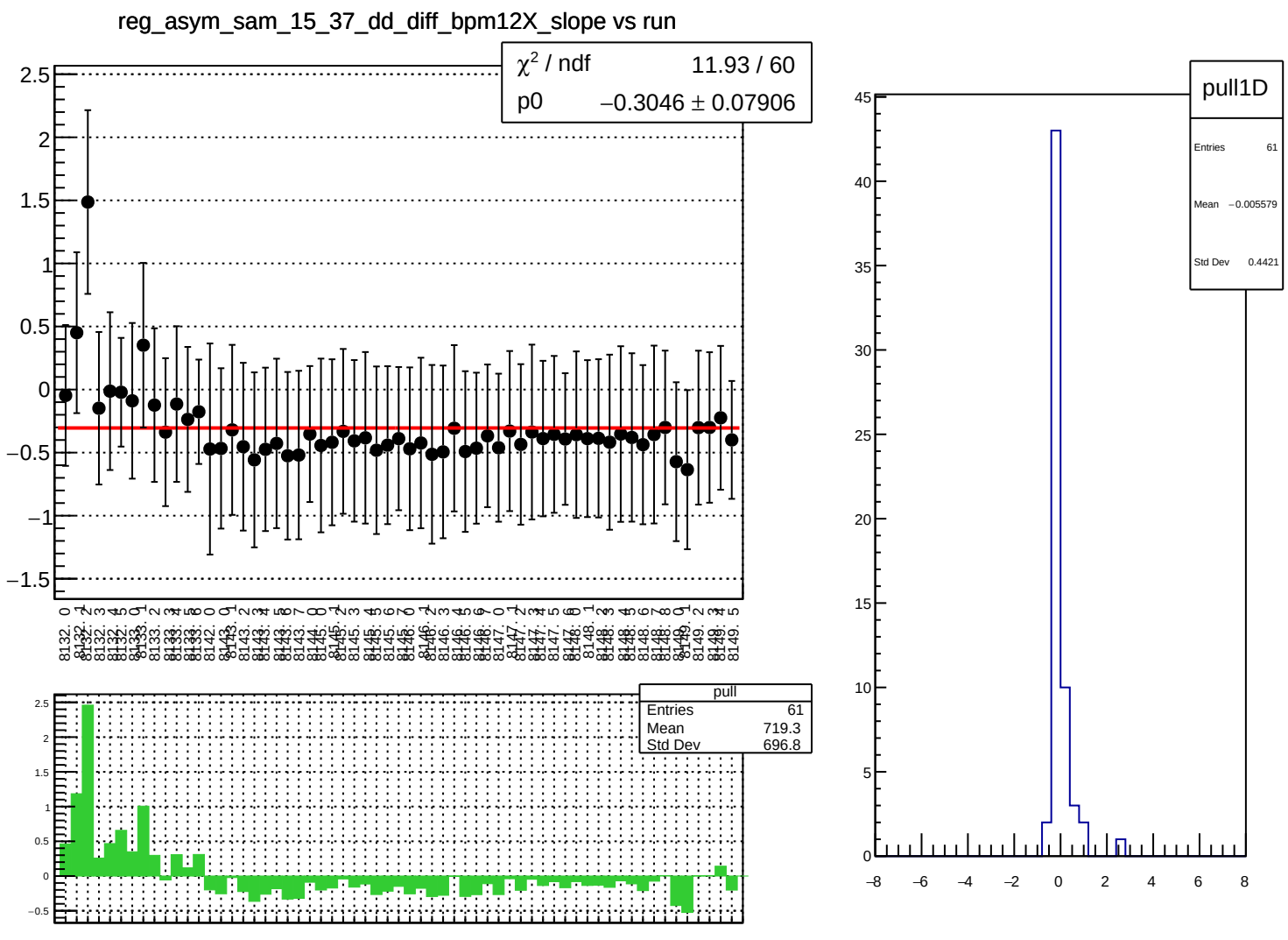

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 10.58 / 60
p0 3.27 ± 0.9346
pull
Entries 61
Mean −54.9
Std Dev 76.74
pull1D
Entries 61
Mean 0.05047
Std Dev 0.4134

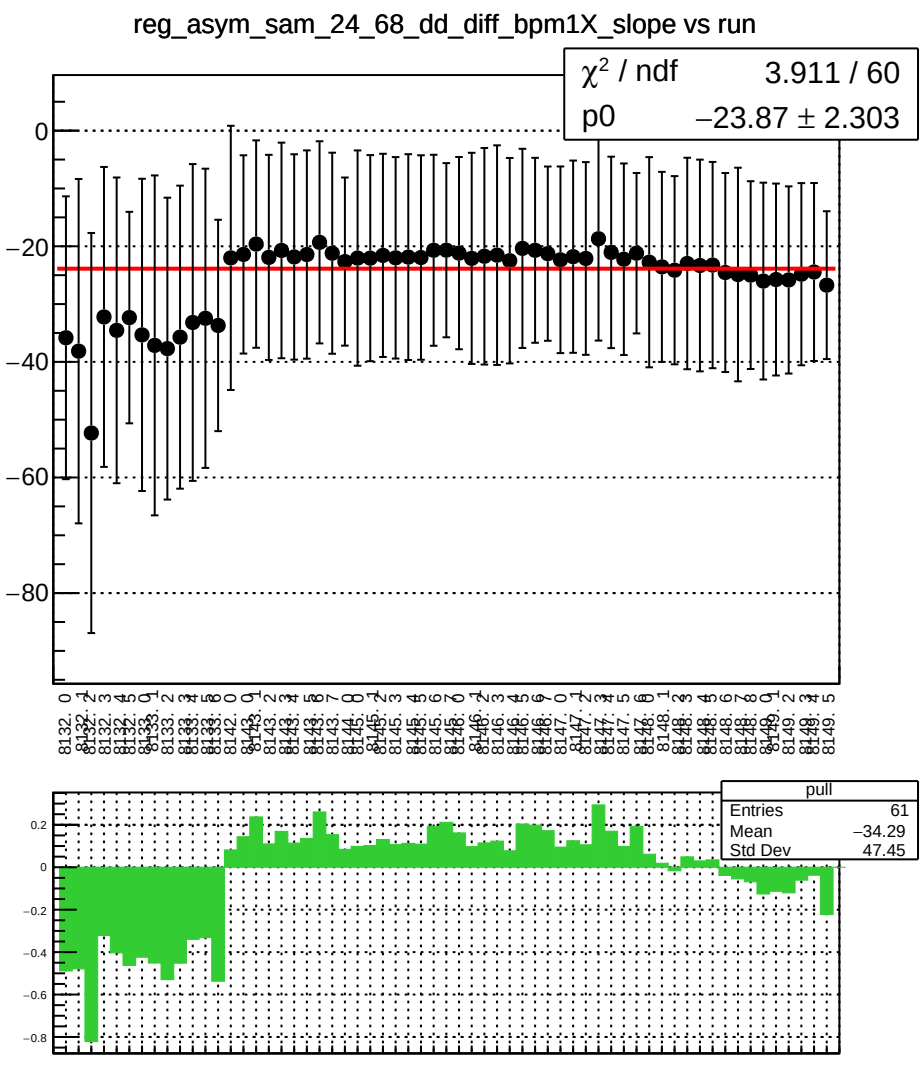

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.857 / 60
p0 13.75 ± 1.78
pull
Entries 61
Mean −1825
Std Dev 1844
pull1D
Entries 61
Mean −0.001598
Std Dev 0.3589

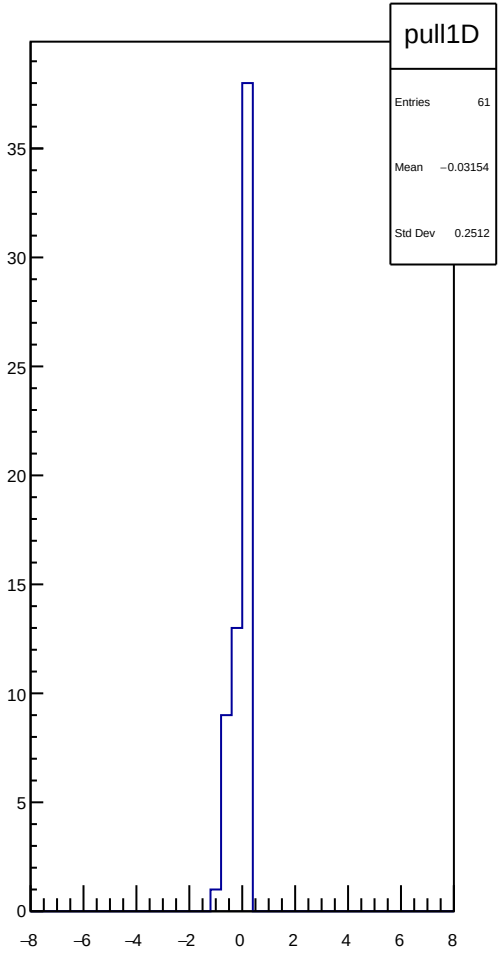

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.77 / 60
p0 41.32 ± 0.937
pull
Entries 61
Mean −72.58
Std Dev 95.34
pull1D
Entries 61
Mean −0.04735
Std Dev 0.4366

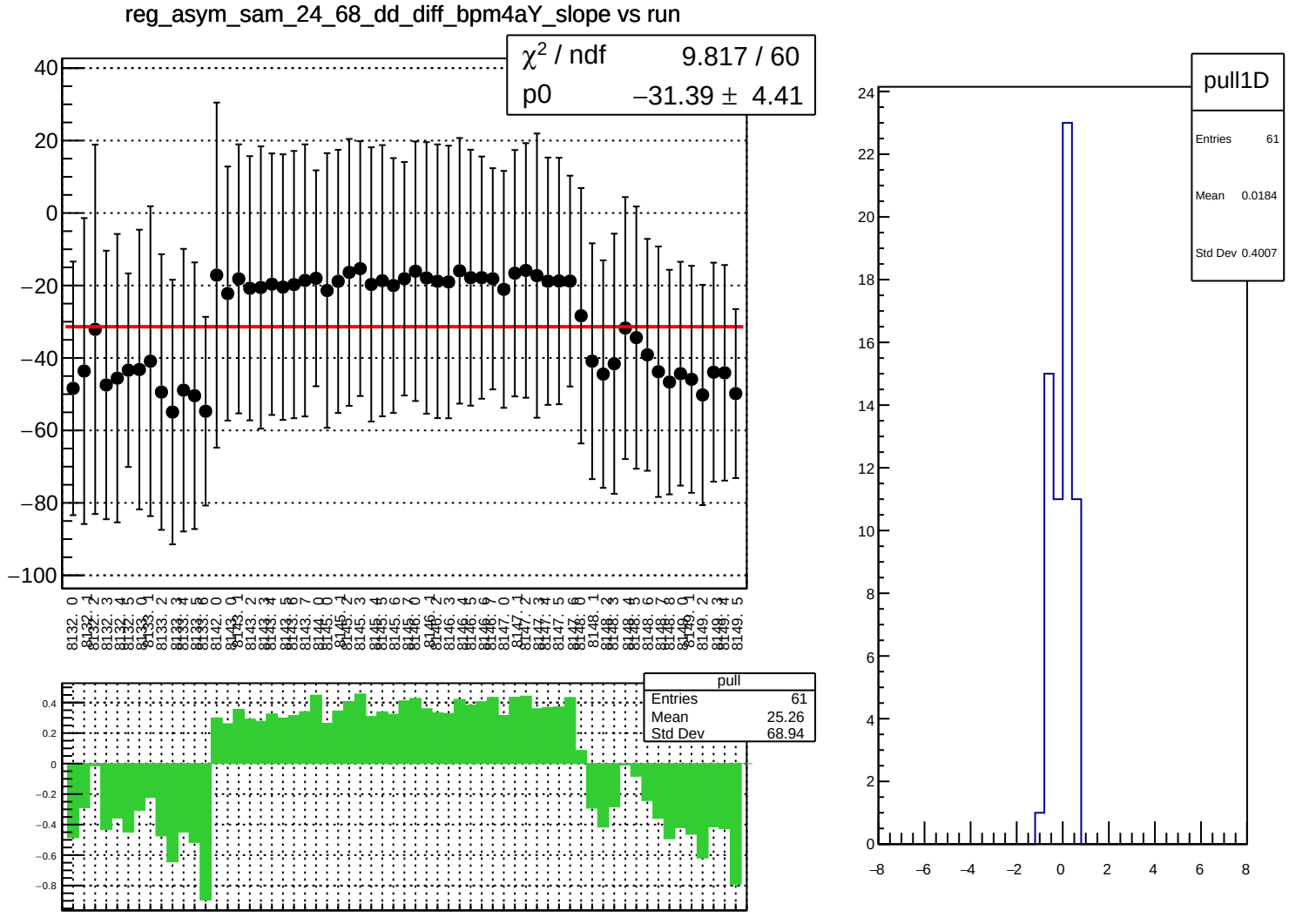

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.852 / 60
p0 9.703 ± 1.904
pull
Entries 61
Mean −2348
Std Dev 2365

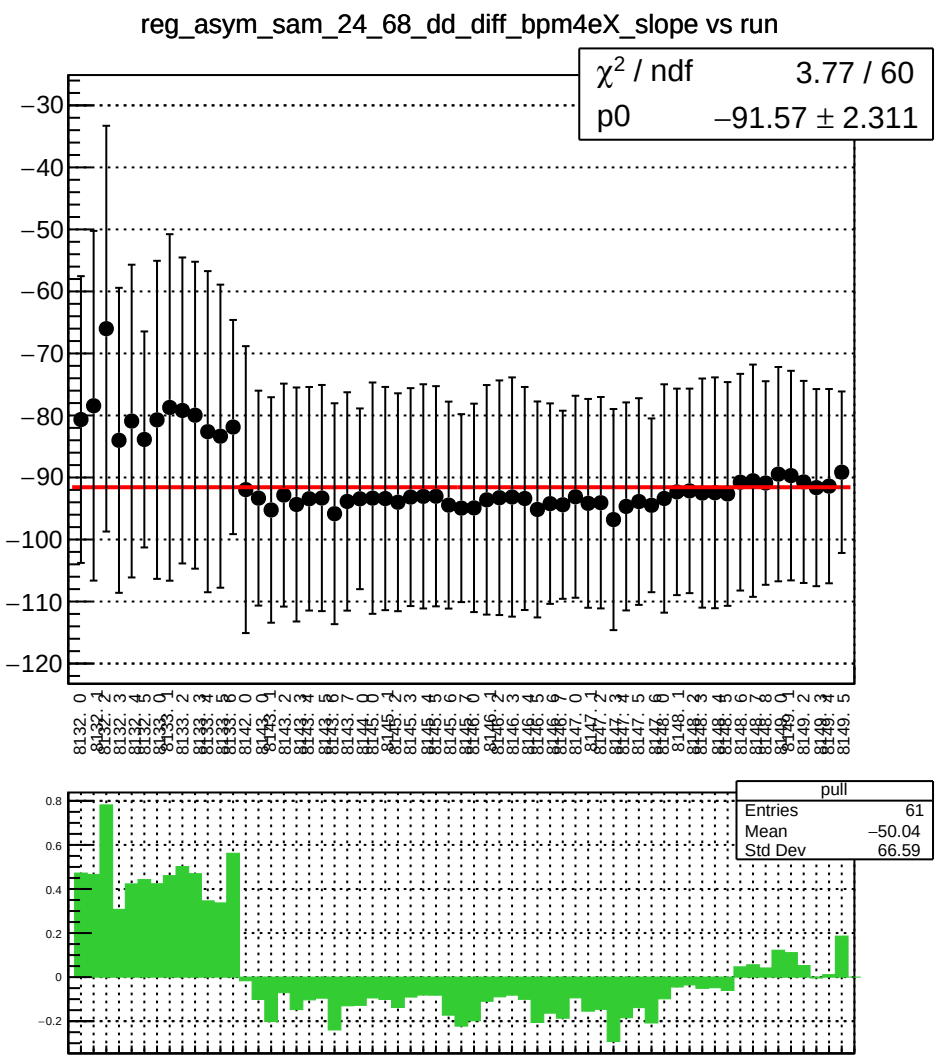

pull1D
Entries 61
Mean 0.001224
Std Dev 0.4019

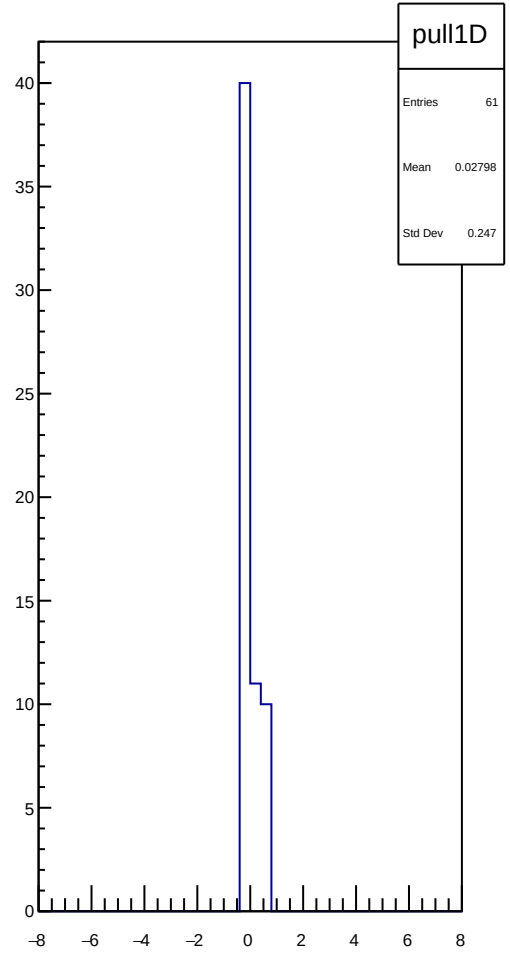

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 11.93 / 60
p0 −0.3046 ± 0.07906
pull
Entries 61
Mean 719.3
Std Dev 696.8
pull1D
Entries 61
Mean −0.005579
Std Dev 0.4421

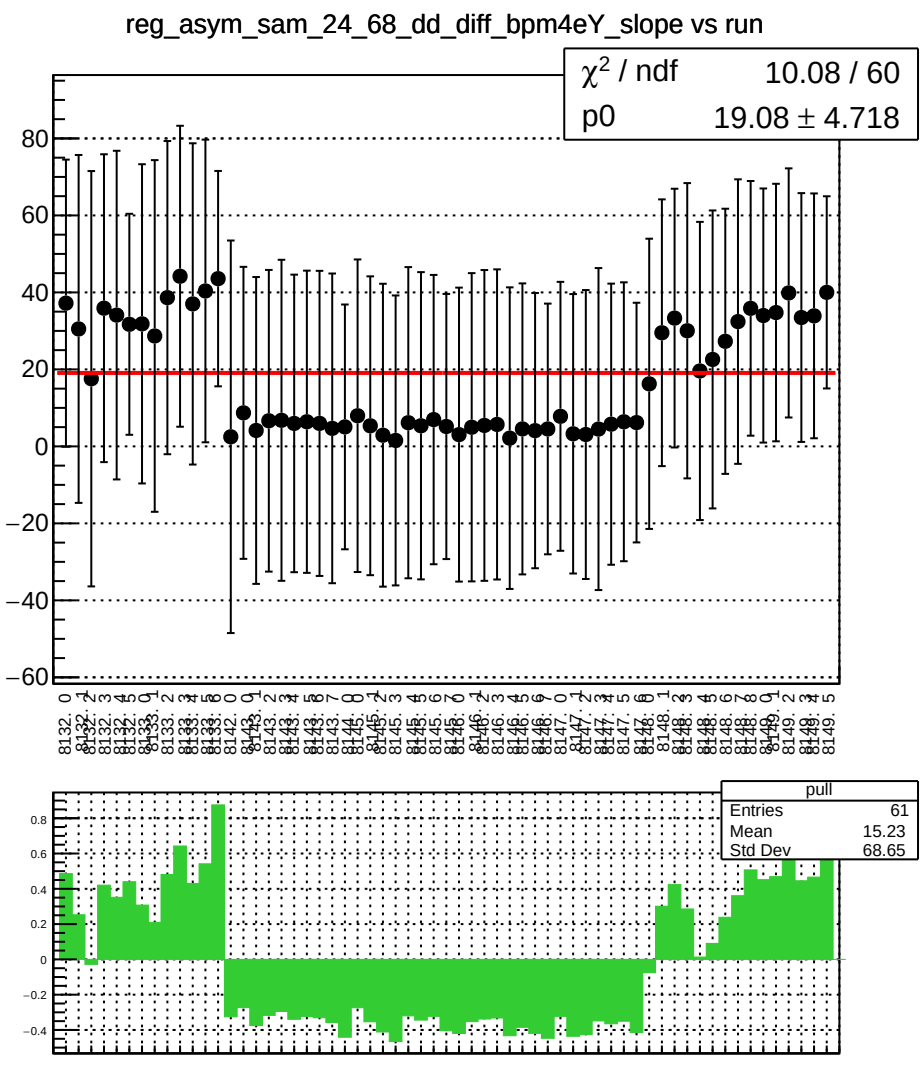

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 3.911 / 60
p0 −23.87 ± 2.303
pull
Entries 61
Mean −34.29
Std Dev 47.45

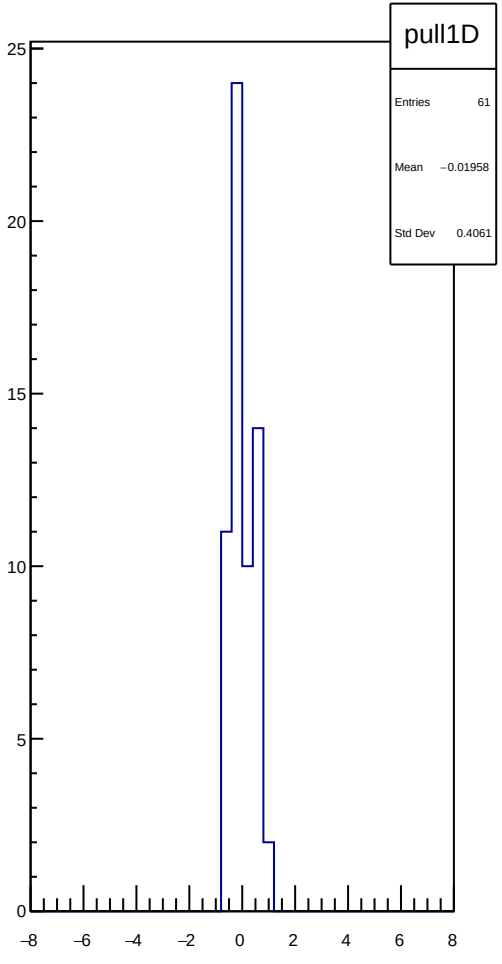

pull1D
Entries 61
Mean −0.03154
Std Dev 0.2512

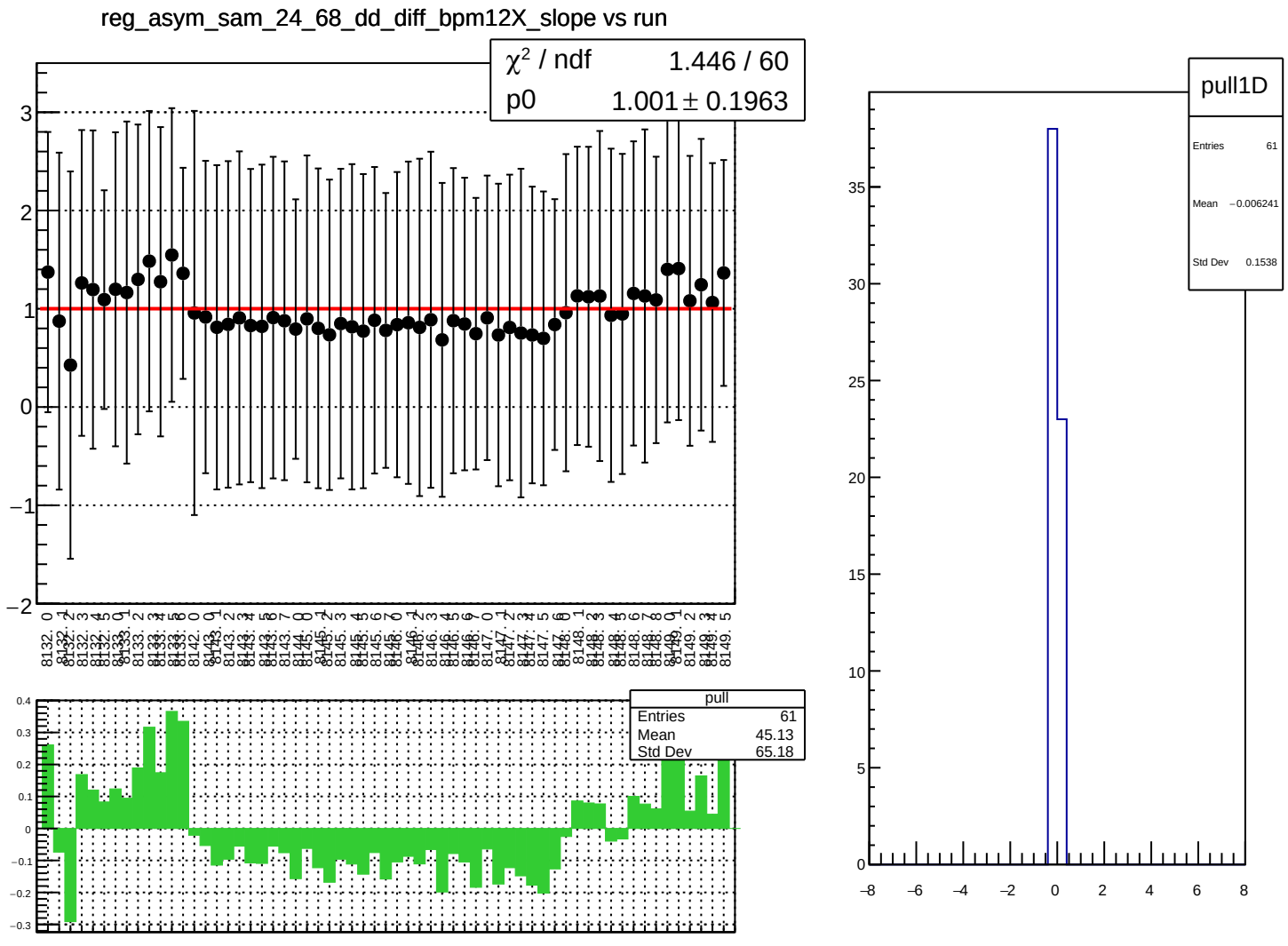

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.817 / 60
p0 −31.39 ± 4.41
pull
Entries 61
Mean 25.26
Std Dev 68.94
pull1D
Entries 61
Mean 0.0184
Std Dev 0.4007

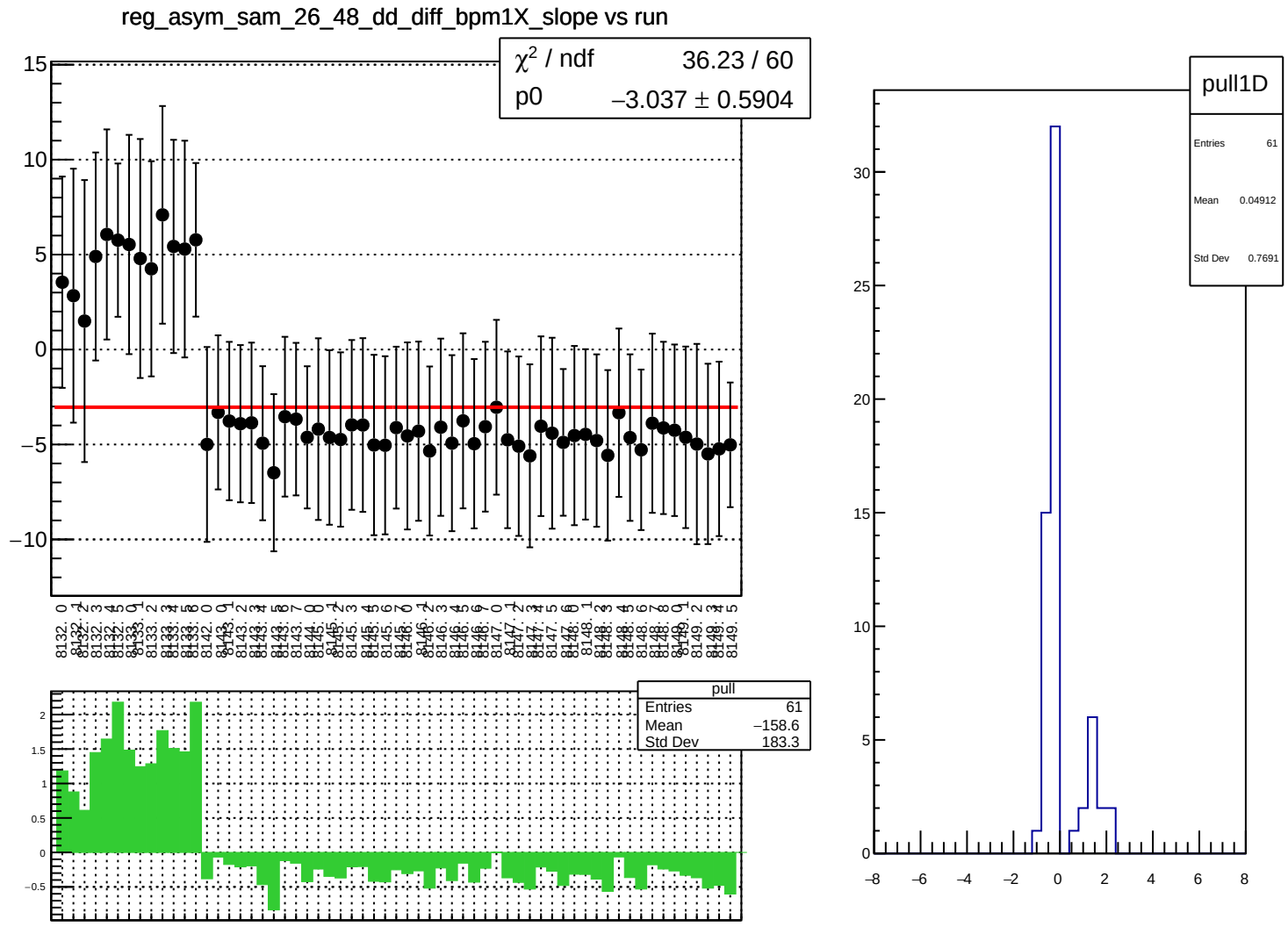

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.77 / 60
p0 −91.57 ± 2.311
pull
Entries 61
Mean −50.04
Std Dev 66.59

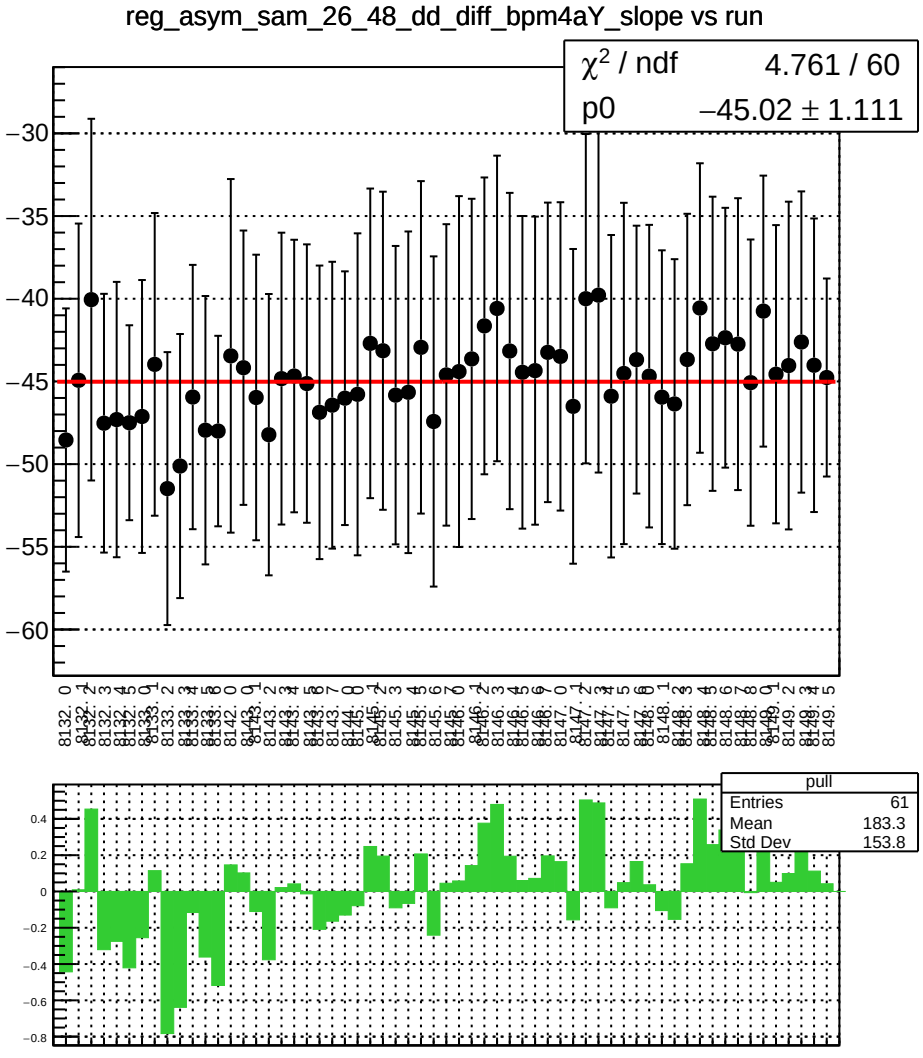

pull1D
Entries 61
Mean 0.02798
Std Dev 0.247

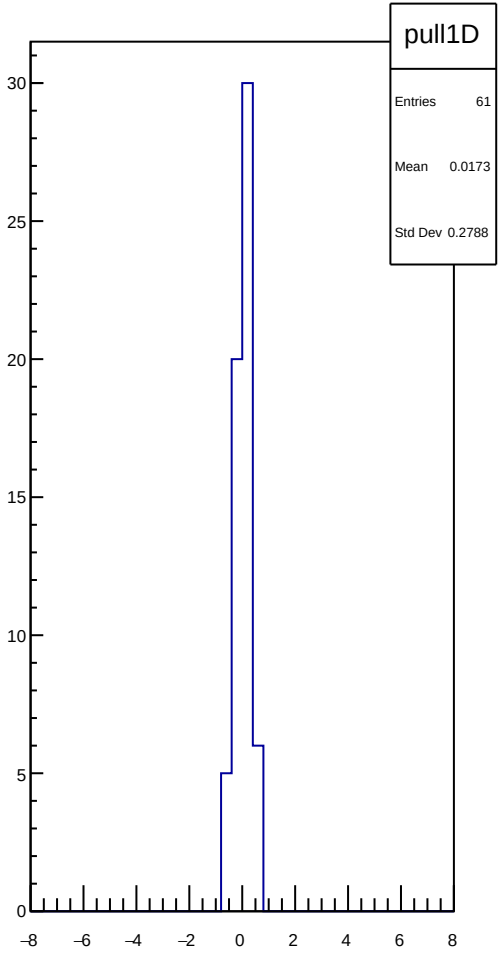

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.08 / 60
p0 19.08 ± 4.718
pull
Entries 61
Mean 15.23
Std Dev 68.65

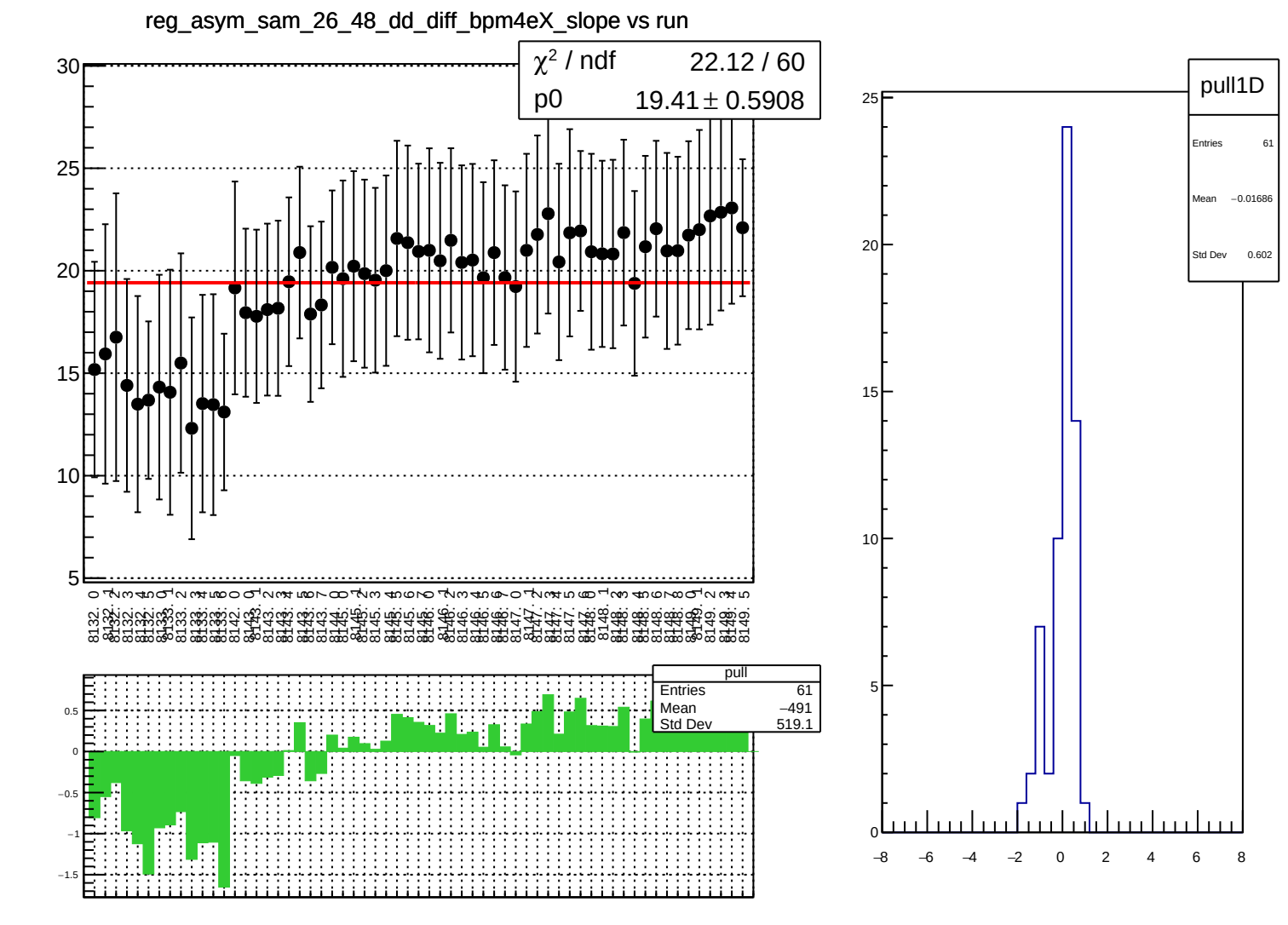

pull1D
Entries 61
Mean −0.01958
Std Dev 0.4061

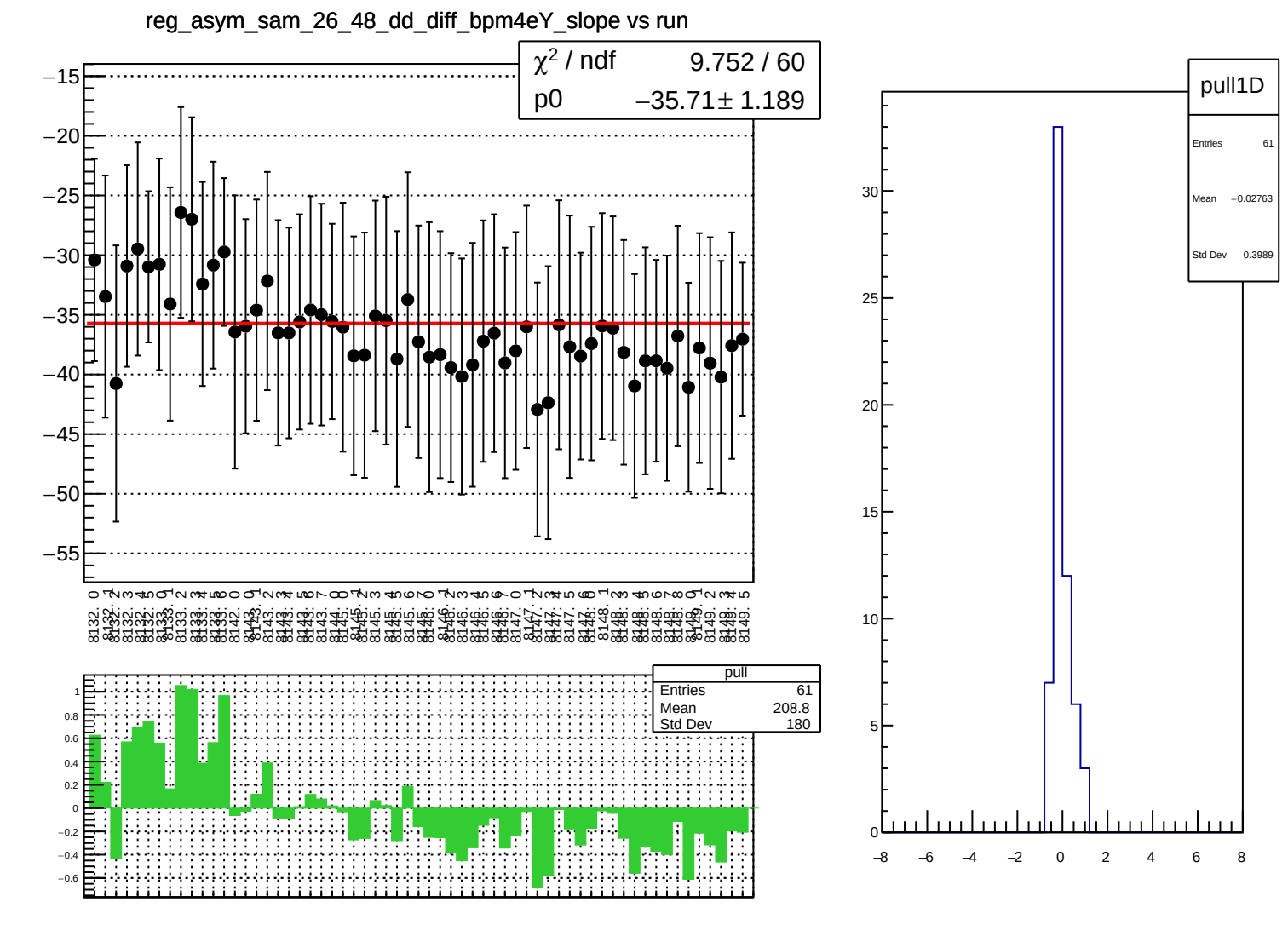

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 1.446 / 60
p0 1.001 ± 0.1963
pull
Entries 61
Mean 45.13
Std Dev 65.18
pull1D
Entries 61
Mean −0.006241
Std Dev 0.1538

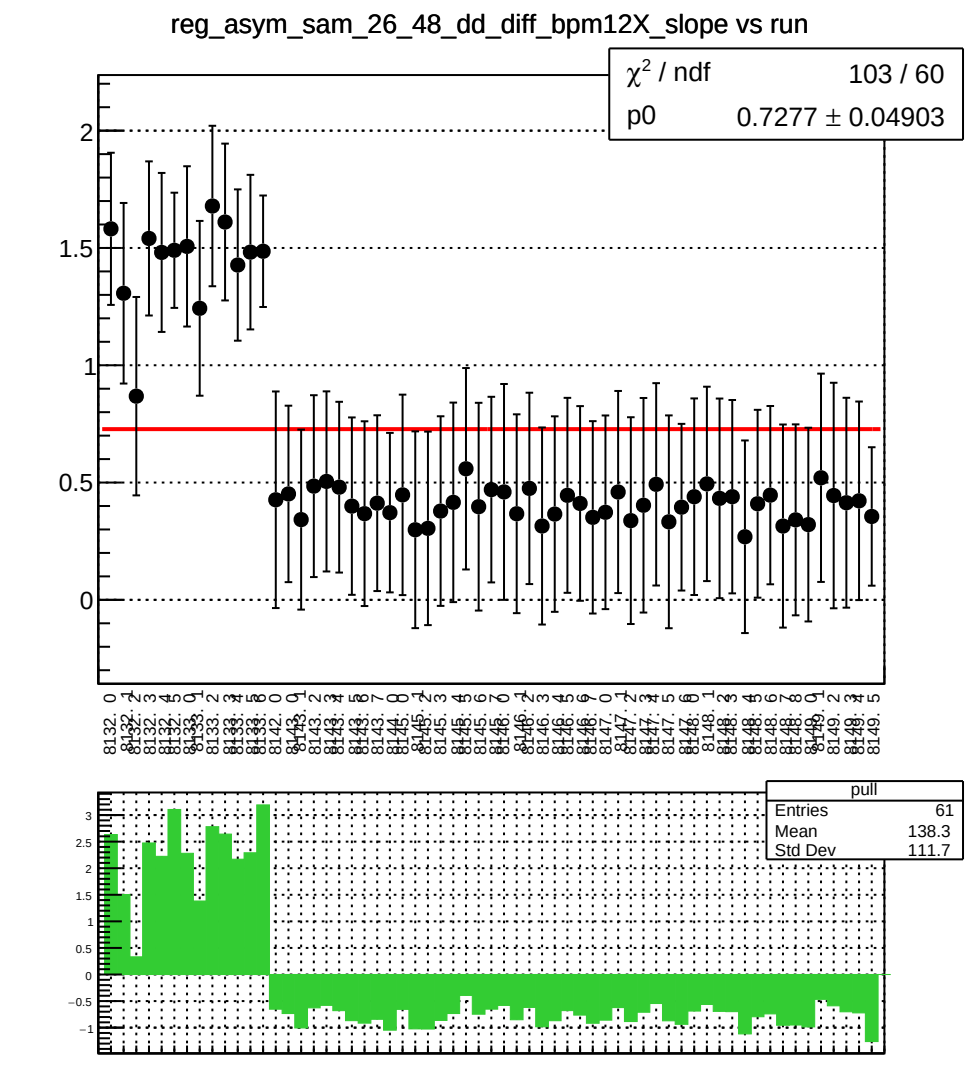

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 36.23 / 60
p0 −3.037 ± 0.5904
pull
Entries 61
Mean −158.6
Std Dev 183.3
pull1D
Entries 61
Mean 0.04912
Std Dev 0.7691

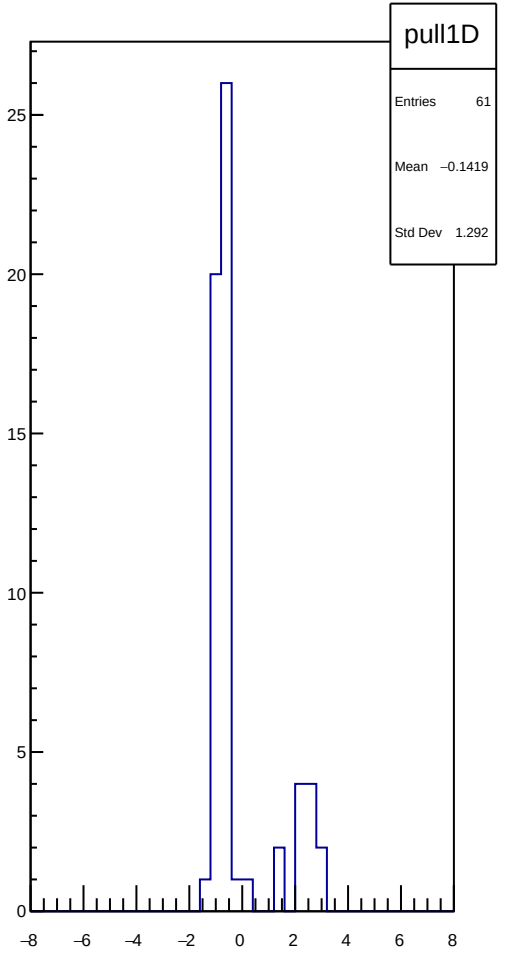

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.761 / 60
p0 −45.02 ± 1.111
pull
Entries 61
Mean 183.3
Std Dev 153.8

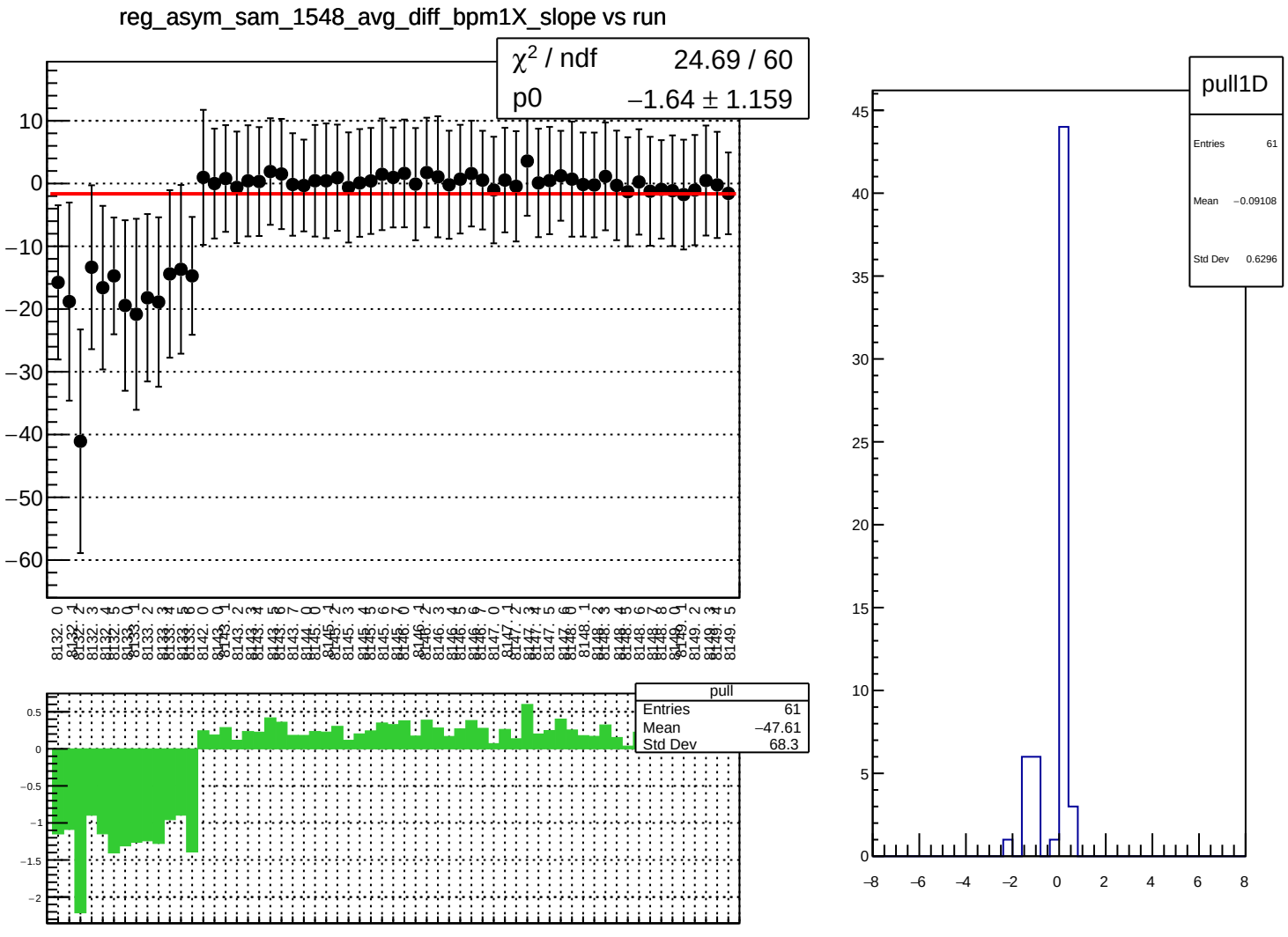

pull1D
Entries 61
Mean 0.0173
Std Dev 0.2788

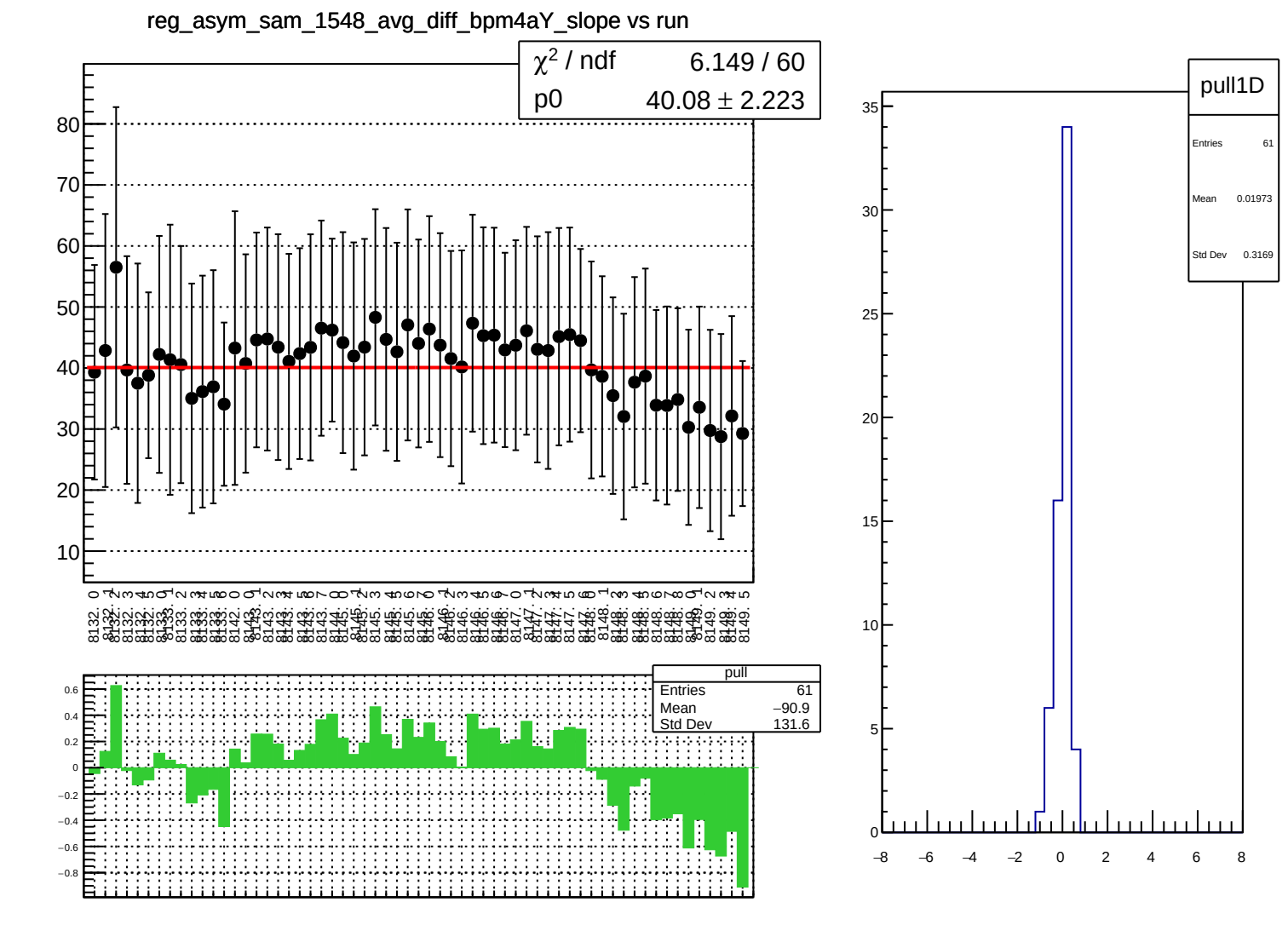

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.12 / 60
p0 19.41 ± 0.5908
pull
Entries 61
Mean −491
Std Dev 519.1
pull1D
Entries 61
Mean −0.01686
Std Dev 0.602

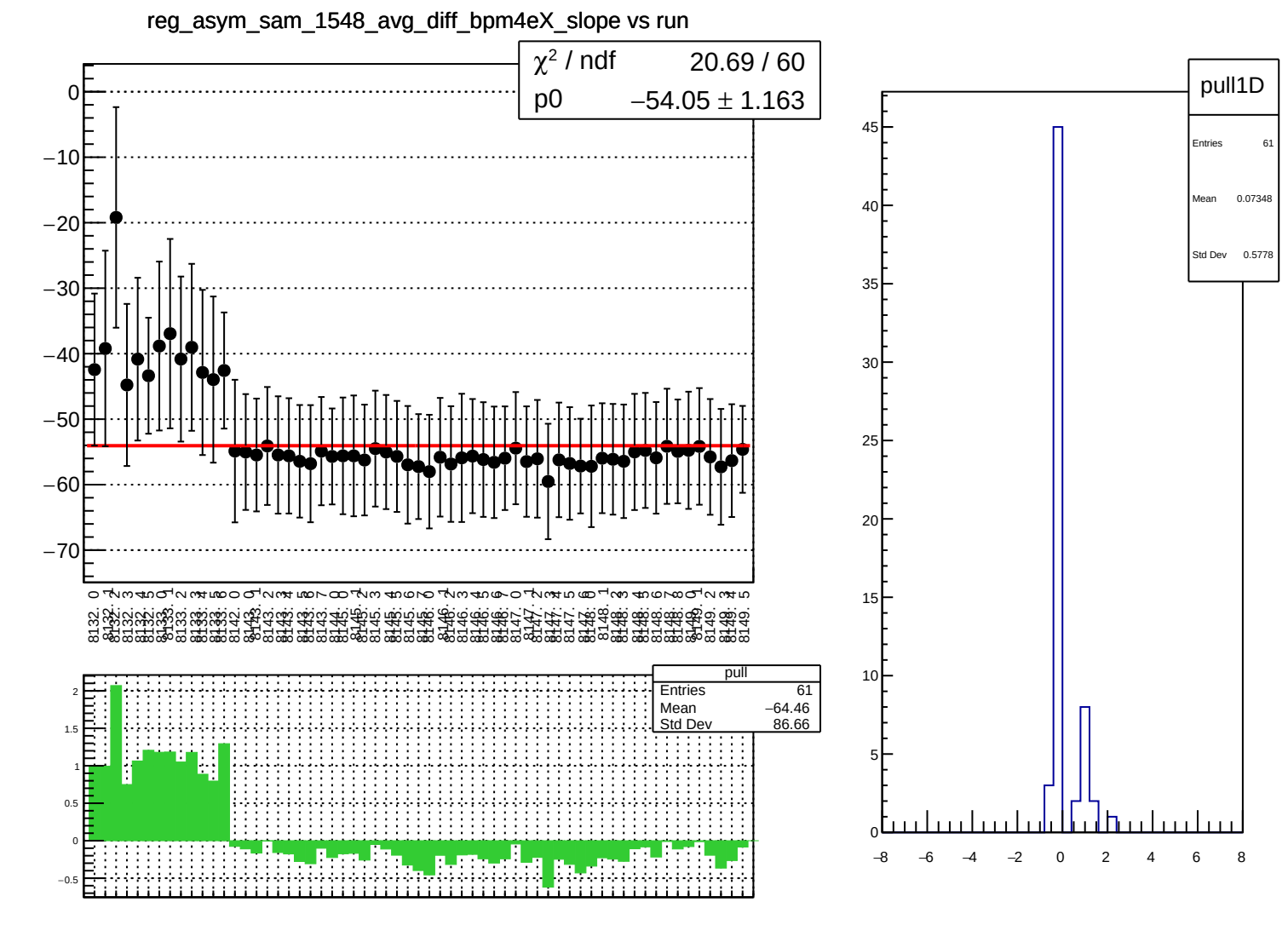

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.752 / 60
p0 −35.71 ± 1.189
pull
Entries 61
Mean 208.8
Std Dev 180
pull1D
Entries 61
Mean −0.02763
Std Dev 0.3989

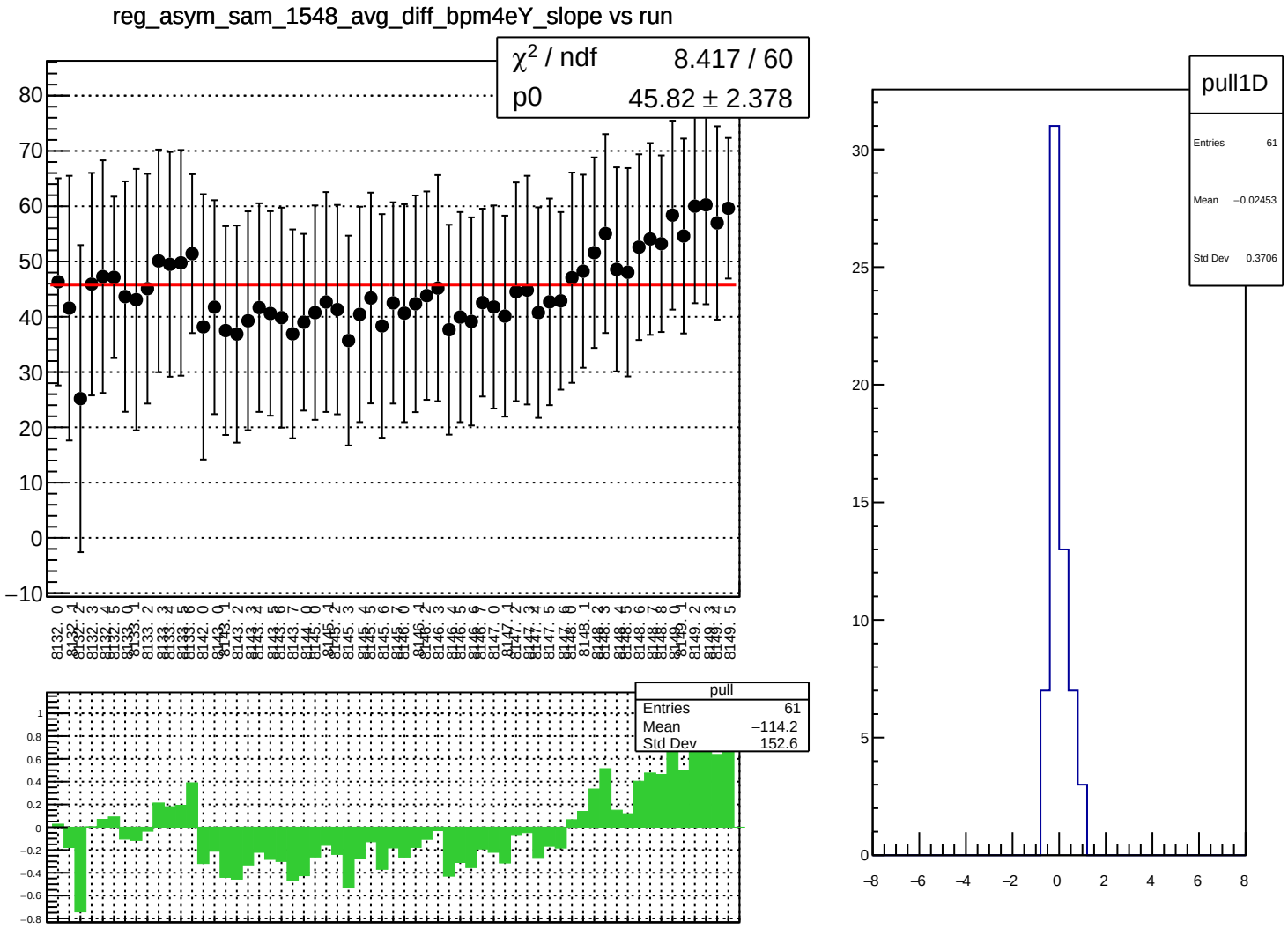

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 103 / 60
p0 0.7277 ± 0.04903
pull
Entries 61
Mean 138.3
Std Dev 111.7

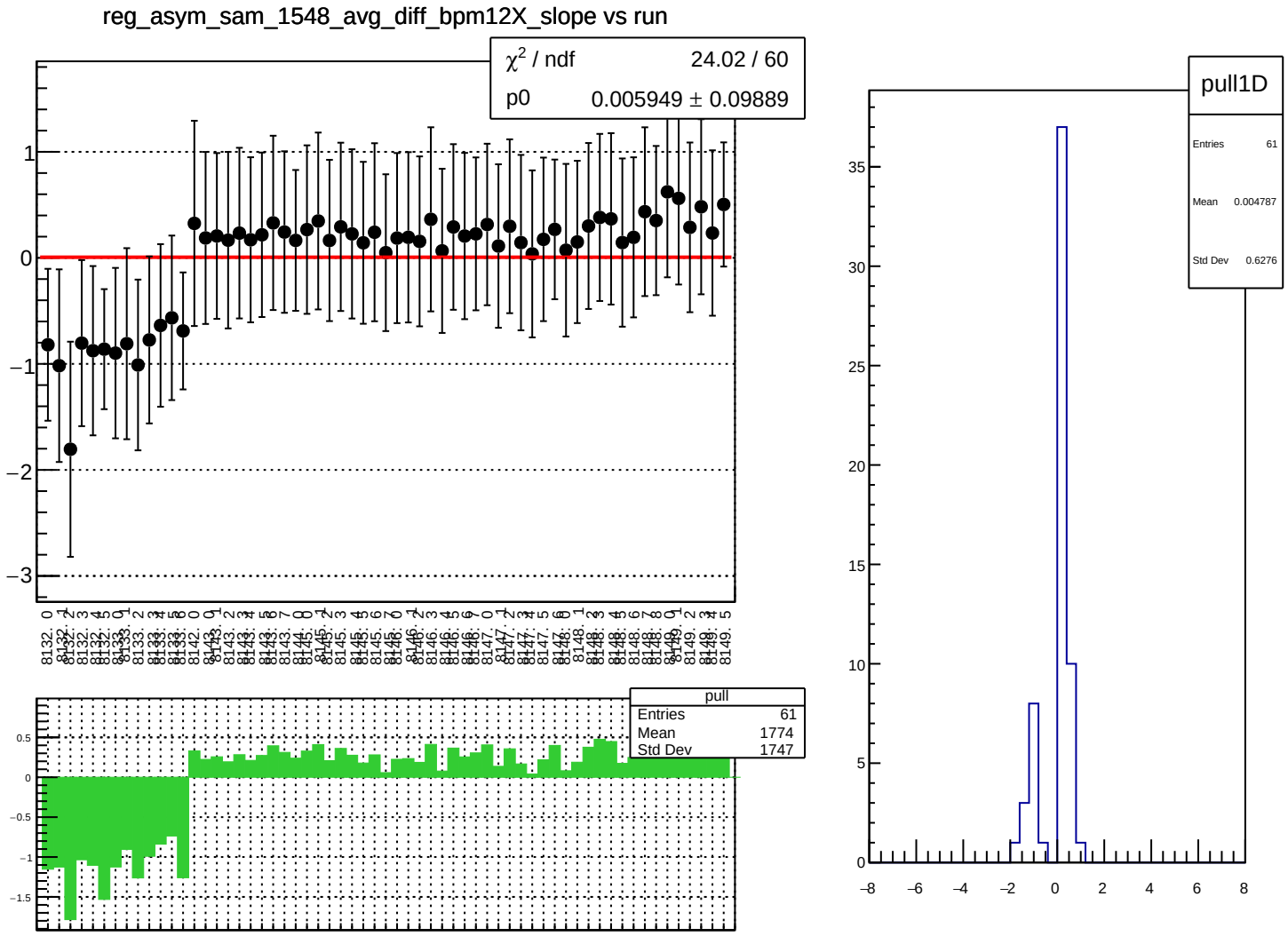

pull1D
Entries 61
Mean −0.1419
Std Dev 1.292

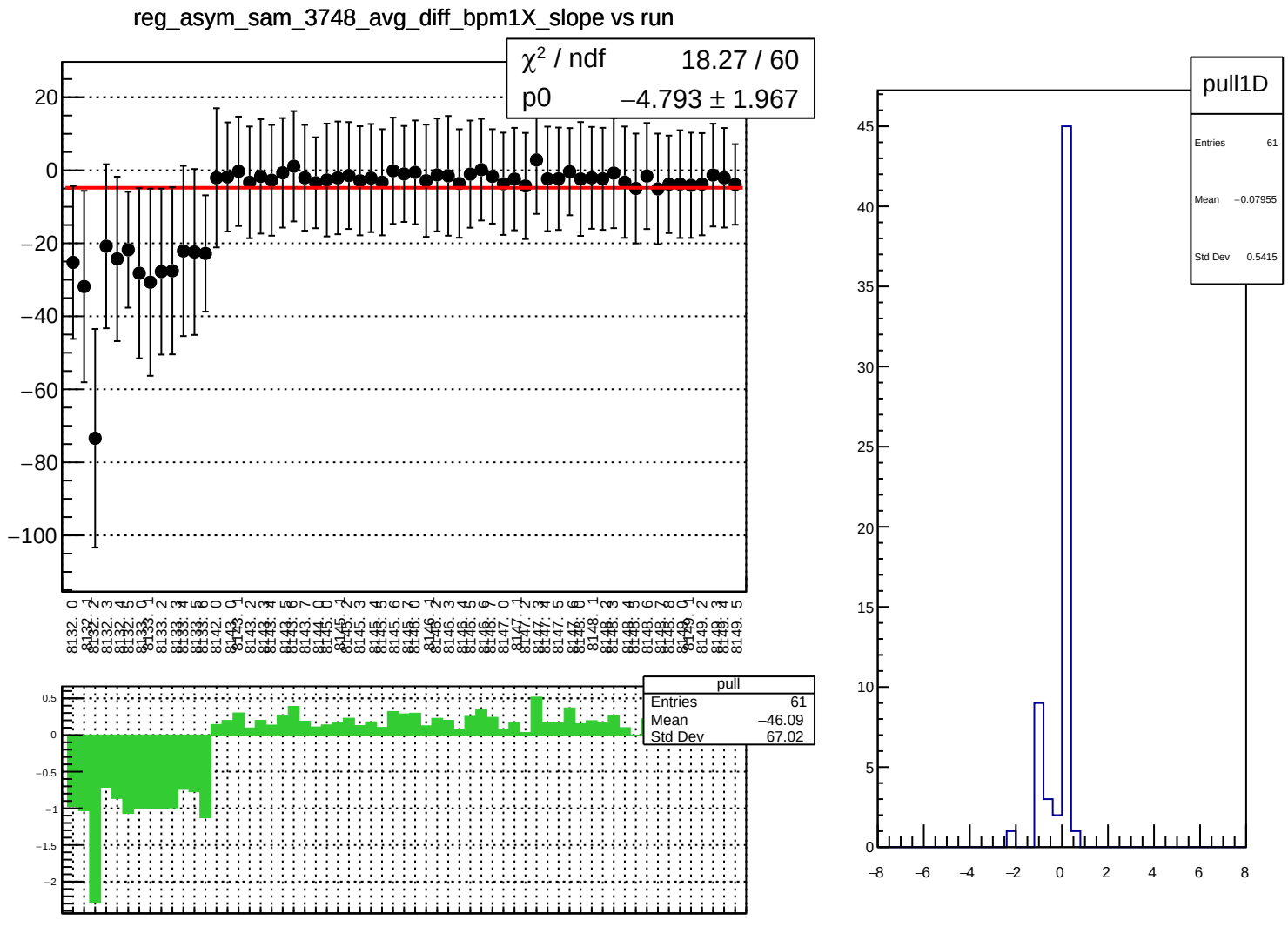

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 24.69 / 60
p0 −1.64 ± 1.159
pull
Entries 61
Mean −47.61
Std Dev 68.3
pull1D
Entries 61
Mean −0.09108
Std Dev 0.6296

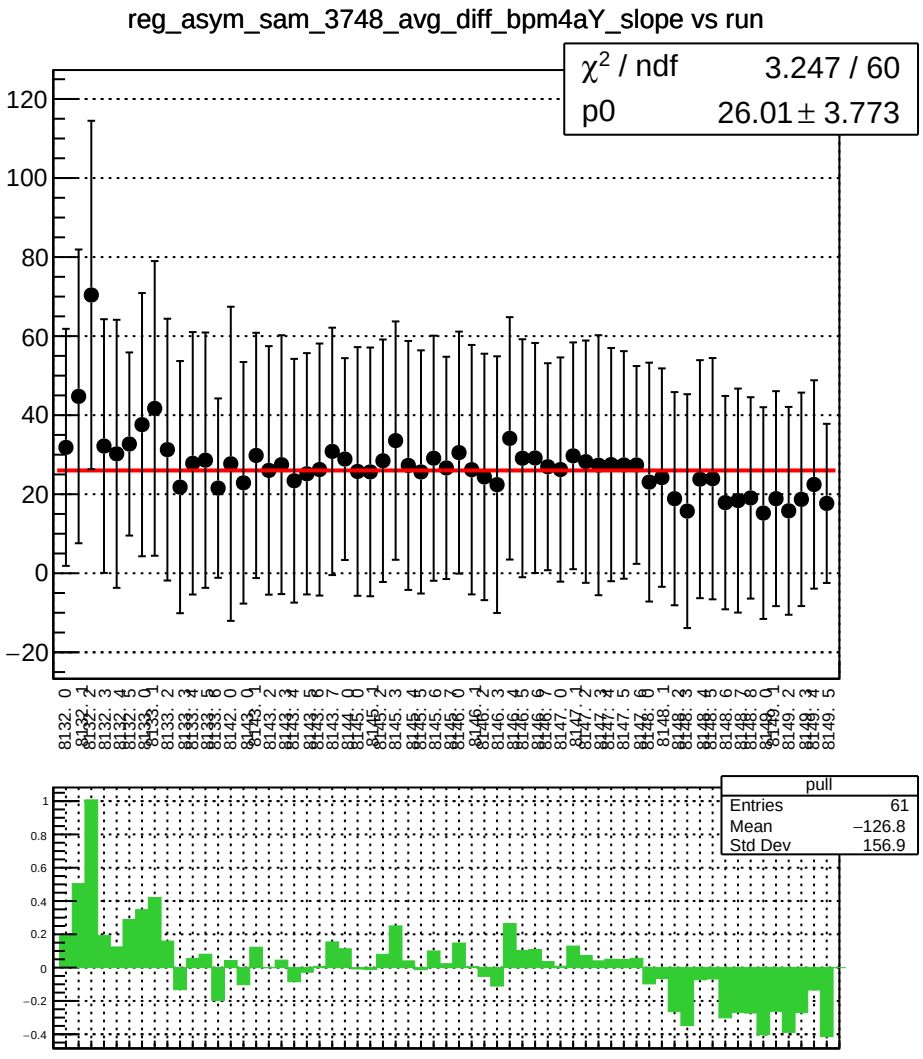

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.149 / 60
p0 40.08 ± 2.223
pull
Entries 61
Mean −90.9
Std Dev 131.6
pull1D
Entries 61
Mean 0.01973
Std Dev 0.3169

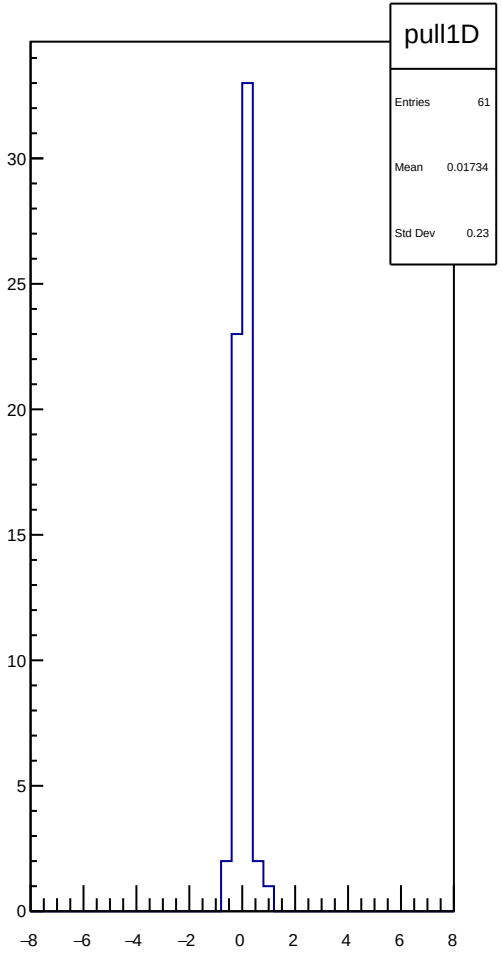

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.69 / 60
p0 −54.05 ± 1.163
pull
Entries 61
Mean −64.46
Std Dev 86.66
pull1D
Entries 61
Mean 0.07348
Std Dev 0.5778

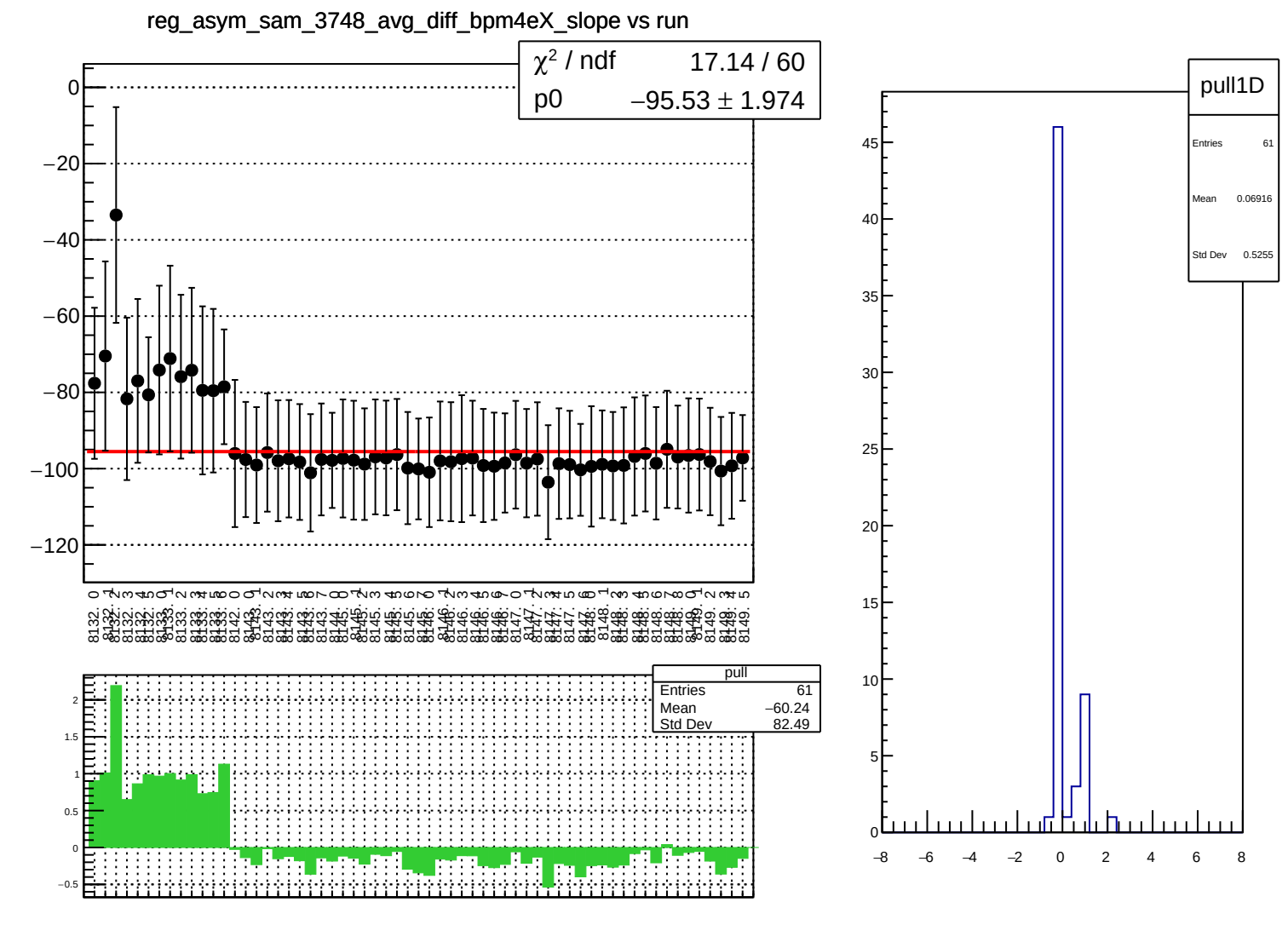

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.417 / 60
p0 45.82 ± 2.378
pull
Entries 61
Mean −114.2
Std Dev 152.6
pull1D
Entries 61
Mean −0.02453
Std Dev 0.3706

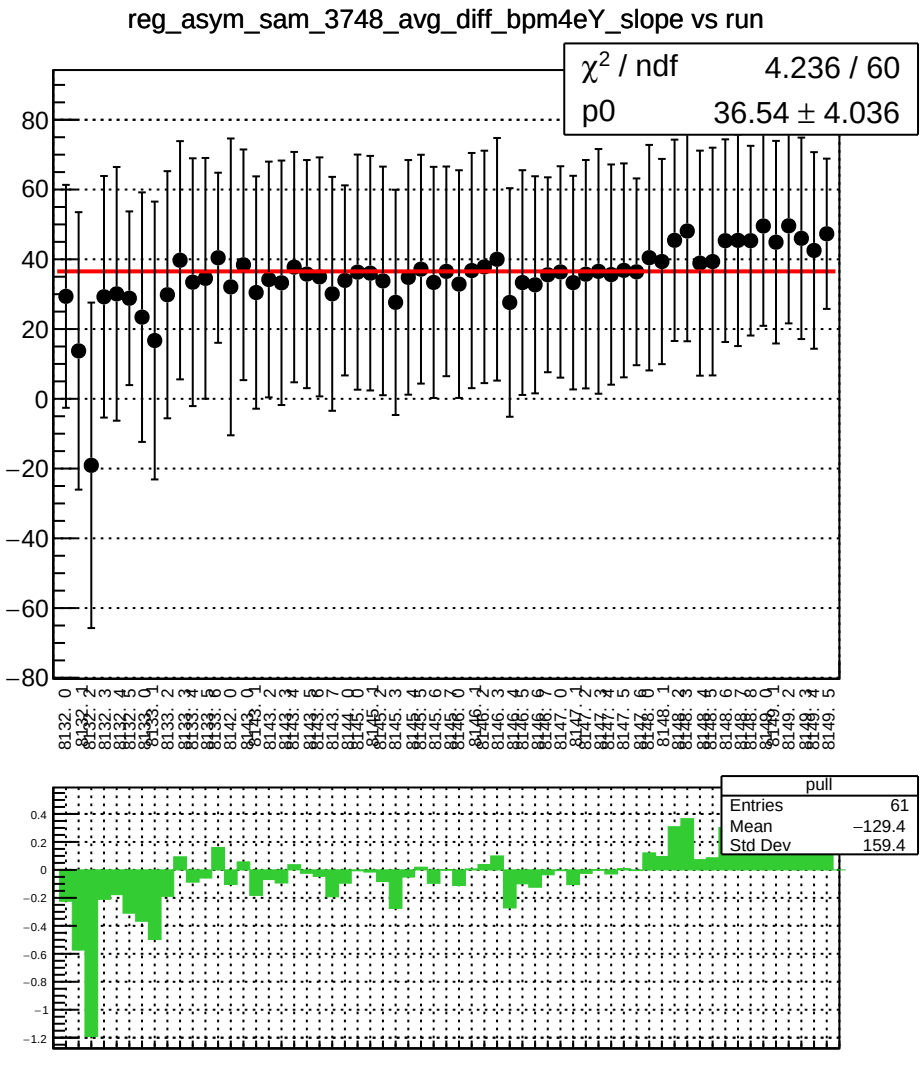

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 24.02 / 60
p0 0.005949 ± 0.09889
pull
Entries 61
Mean 1774
Std Dev 1747
pull1D
Entries 61
Mean 0.004787
Std Dev 0.6276

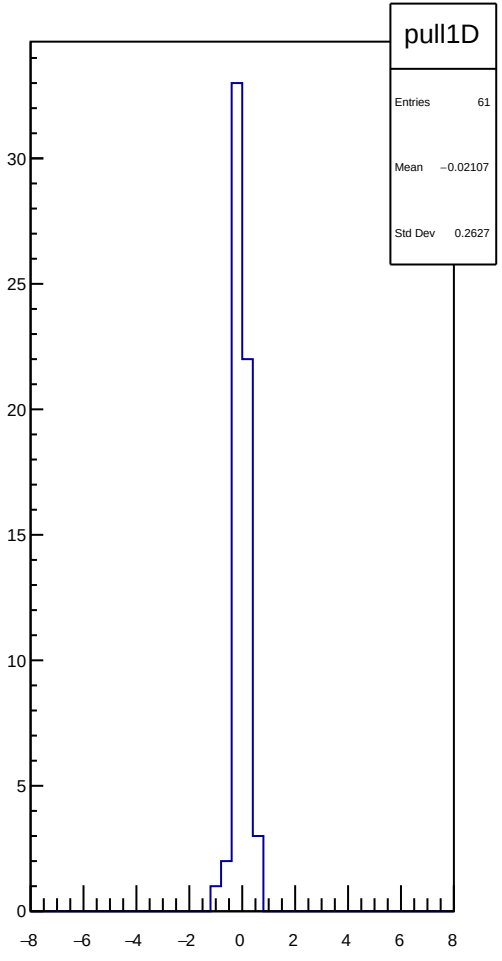

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 18.27 / 60
p0 −4.793 ± 1.967
pull
Entries 61
Mean −46.09
Std Dev 67.02
pull1D
Entries 61
Mean −0.07955
Std Dev 0.5415

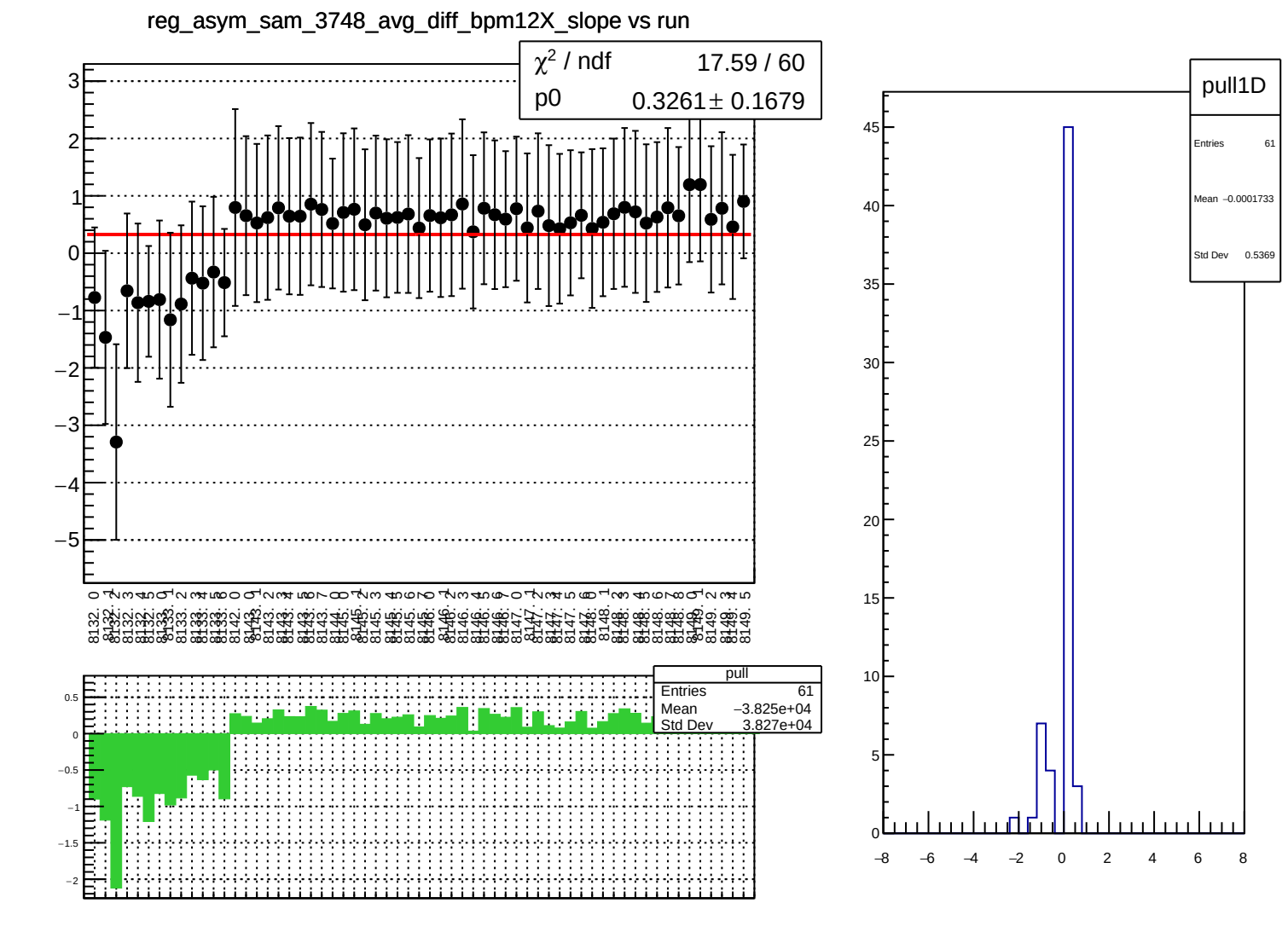

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.247 / 60
p0 26.01 ± 3.773
pull
Entries 61
Mean −126.8
Std Dev 156.9

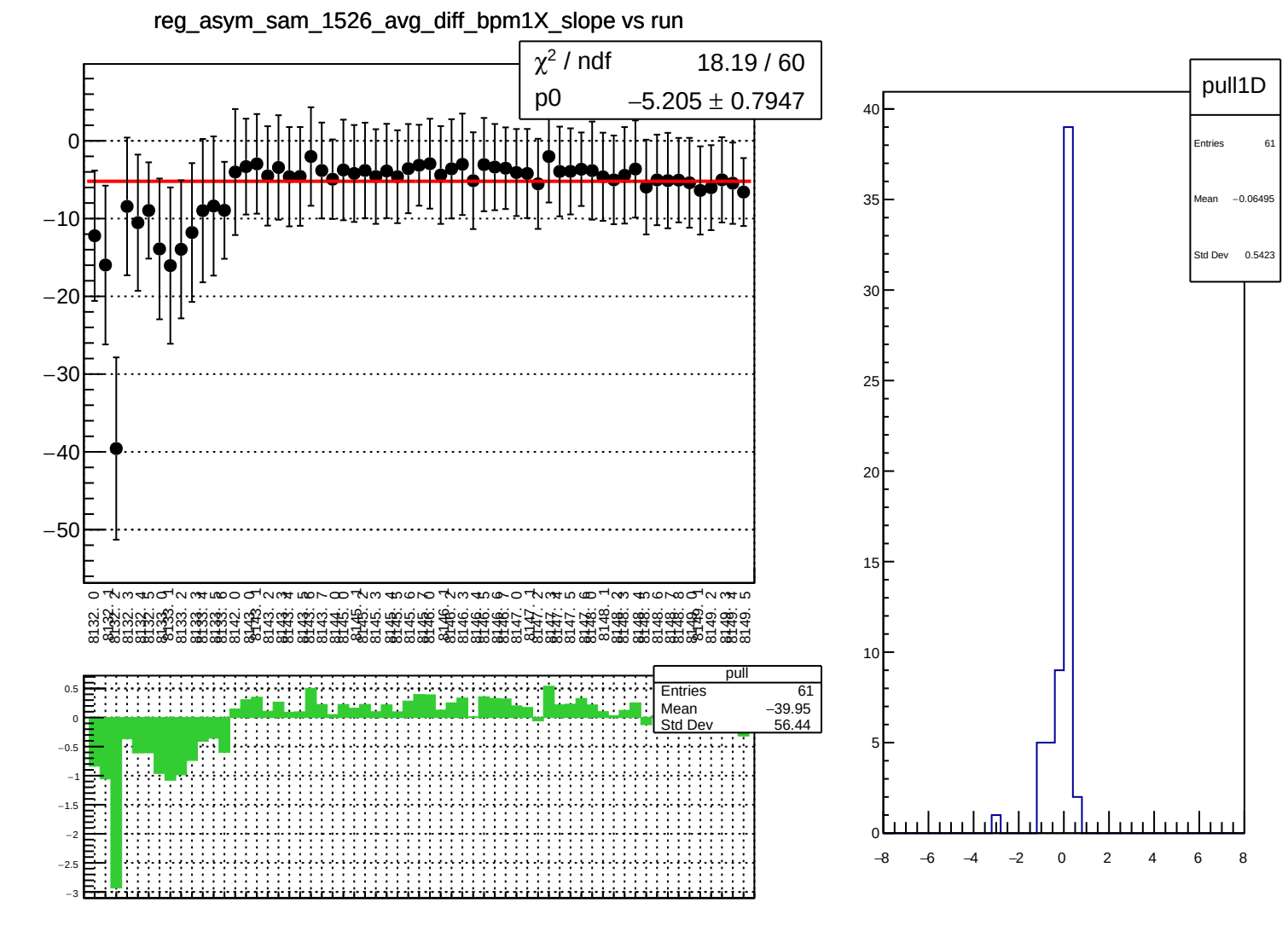

pull1D
Entries 61
Mean 0.01734
Std Dev 0.23

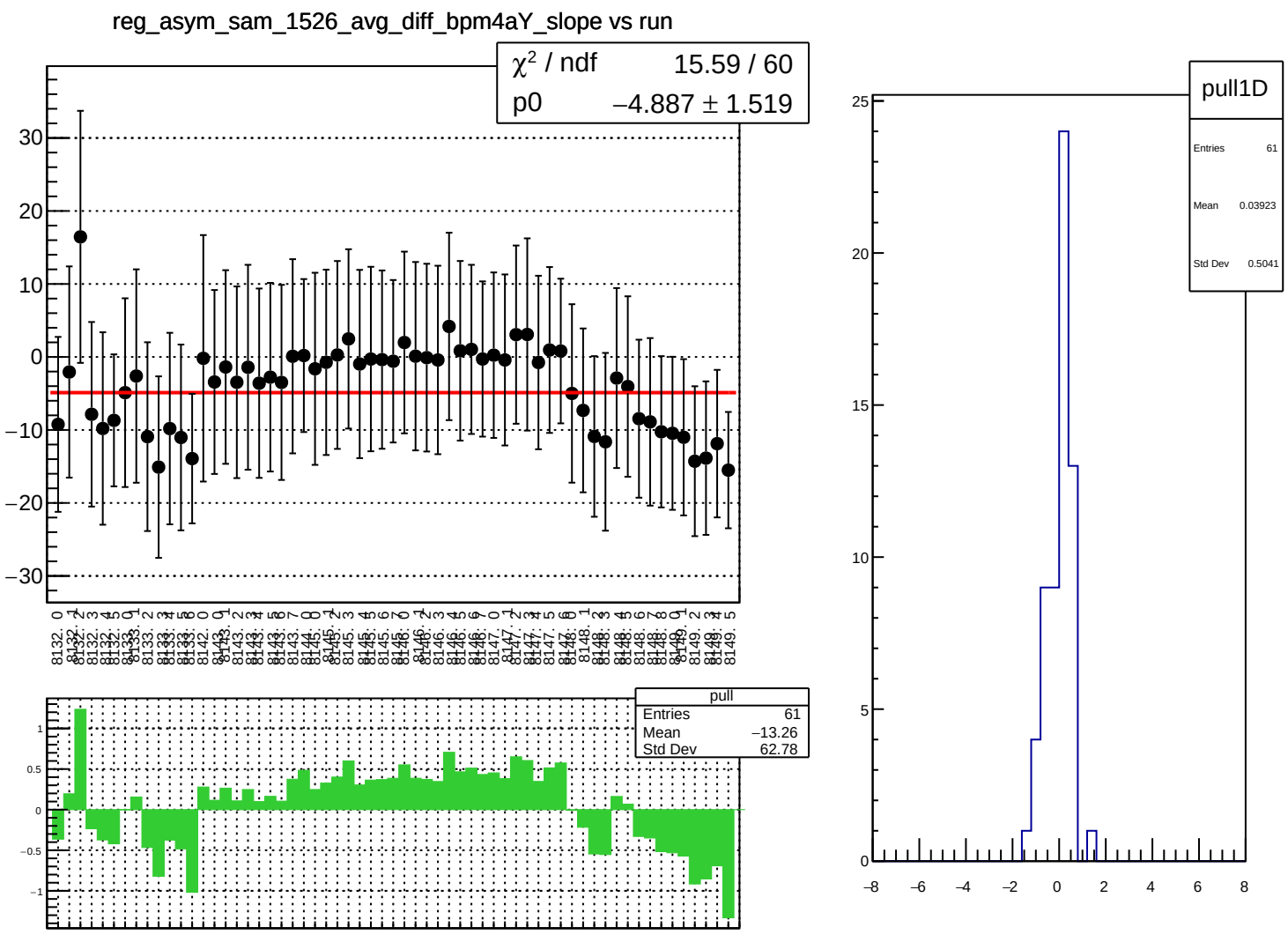

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.14 / 60
p0 −95.53 ± 1.974
pull
Entries 61
Mean −60.24
Std Dev 82.49
pull1D
Entries 61
Mean 0.06916
Std Dev 0.5255

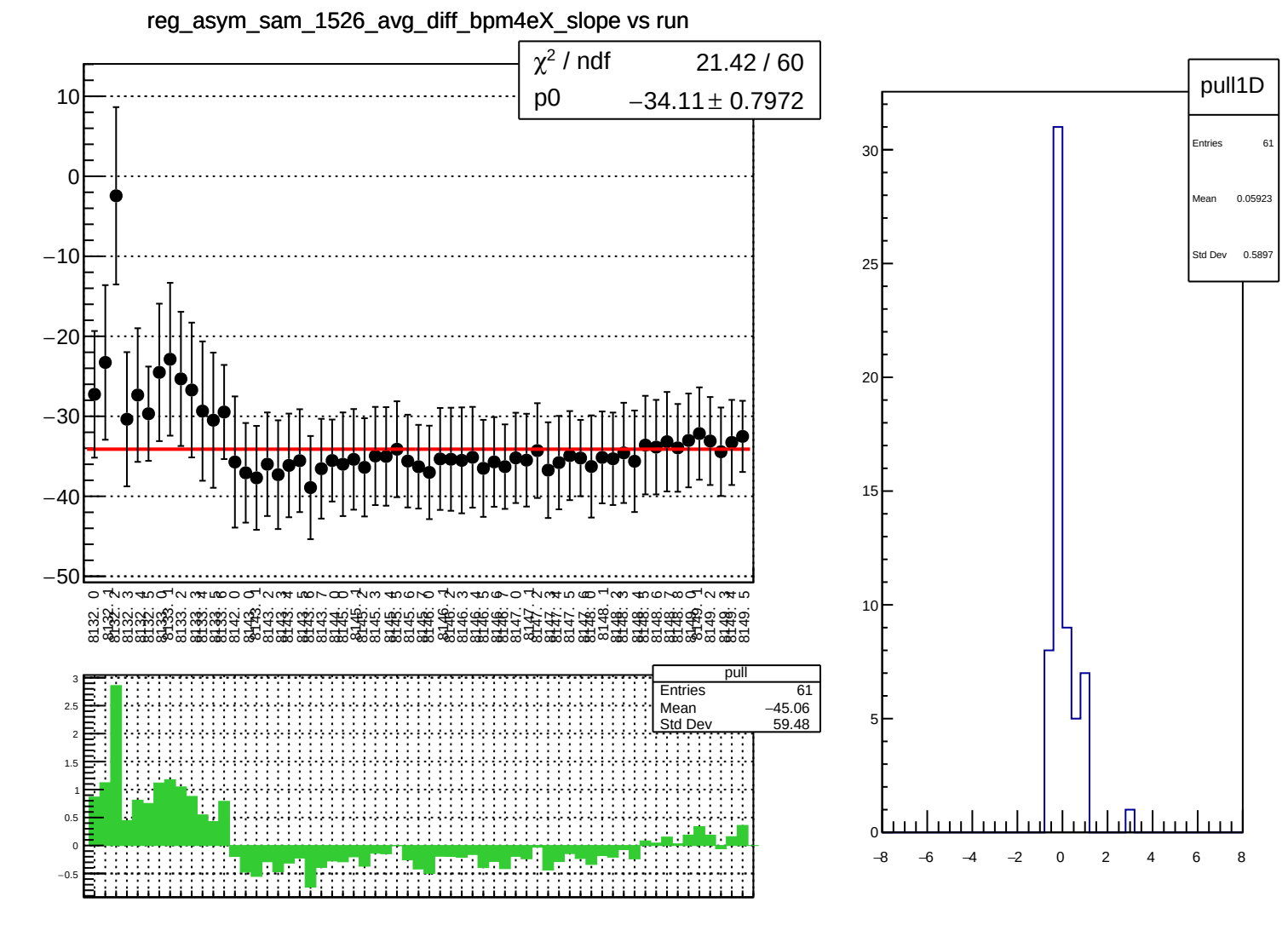

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.236 / 60
p0 36.54 ± 4.036
pull
Entries 61
Mean −129.4
Std Dev 159.4

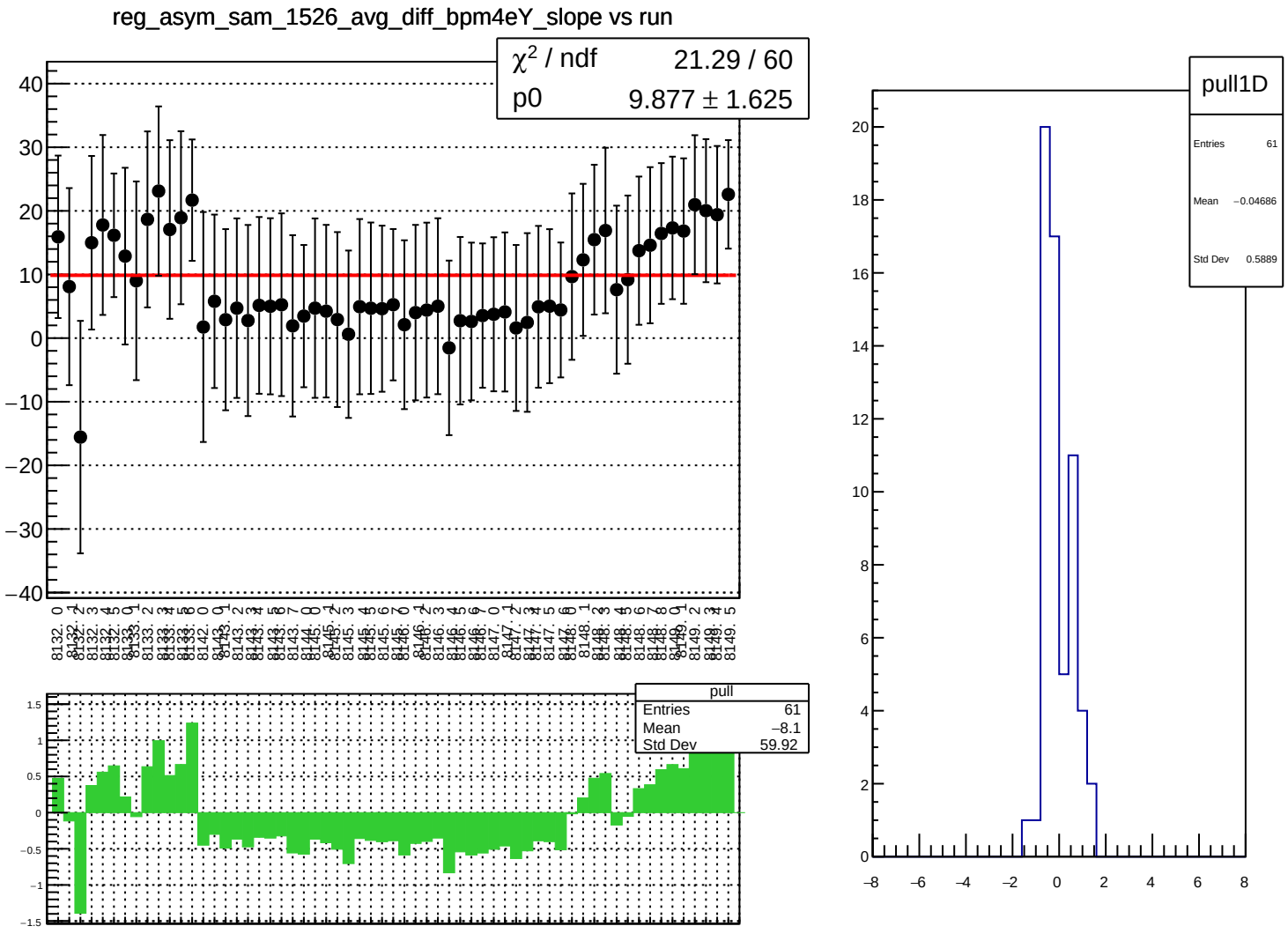

pull1D
Entries 61
Mean −0.02107
Std Dev 0.2627

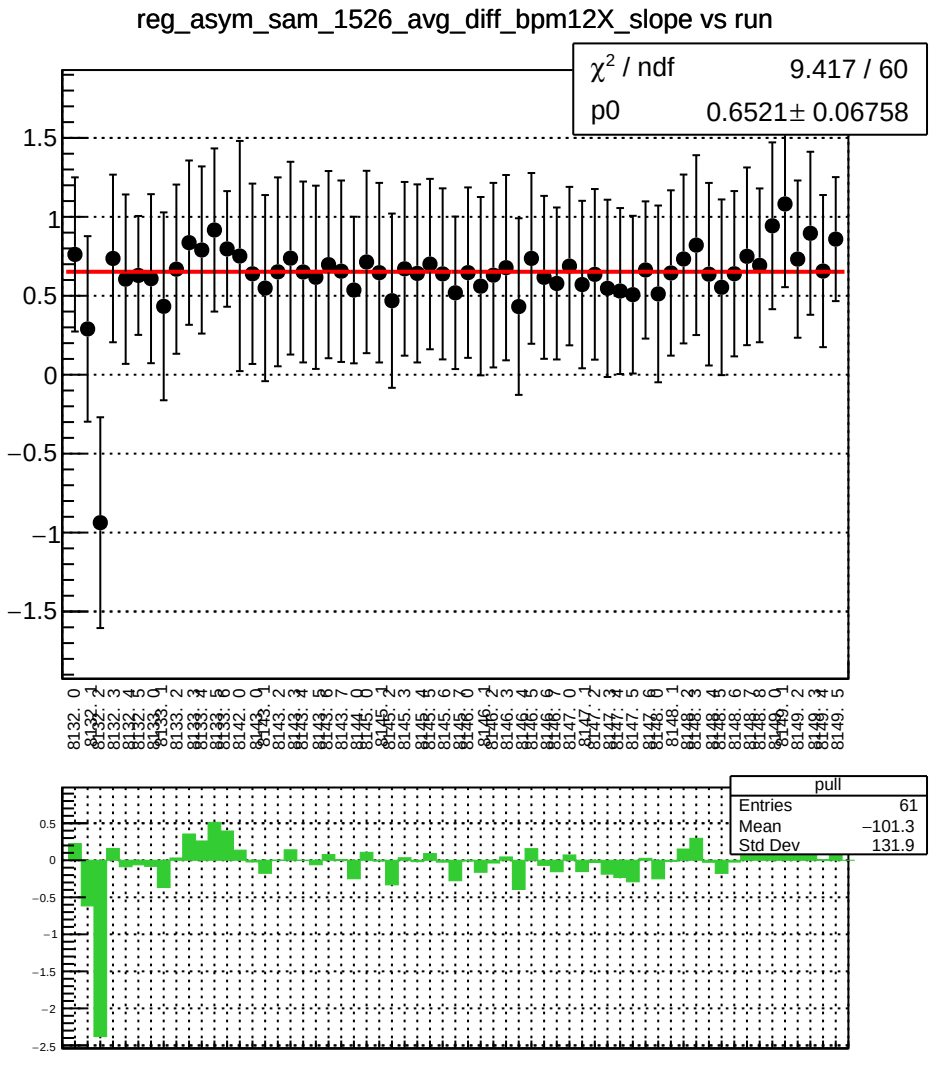

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 17.59 / 60
p0 0.3261 ± 0.1679
pull
Entries 61
Mean −3.825e+04
Std Dev 3.827e+04
pull1D
Entries 61
Mean −0.0001733
Std Dev 0.5369

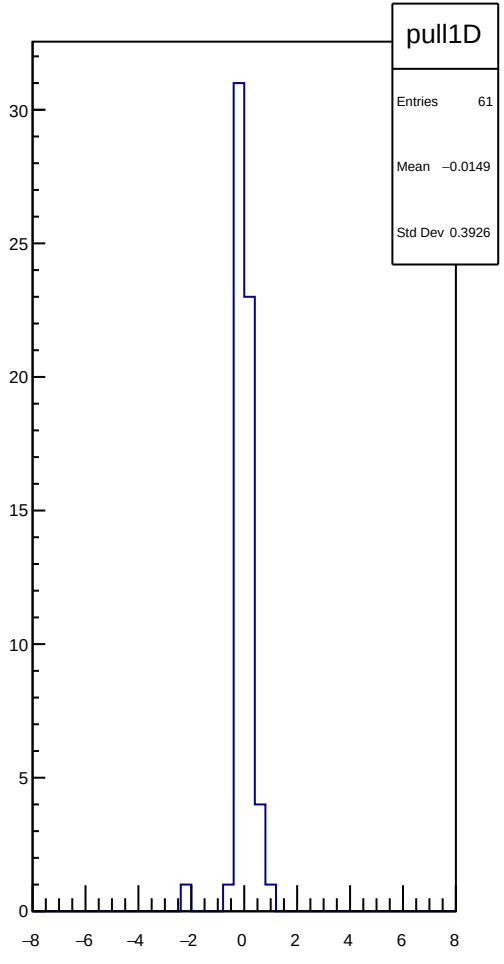

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 18.19 / 60
p0 −5.205 ± 0.7947
pull
Entries 61
Mean −39.95
Std Dev 56.44
pull1D
Entries 61
Mean −0.06495
Std Dev 0.5423

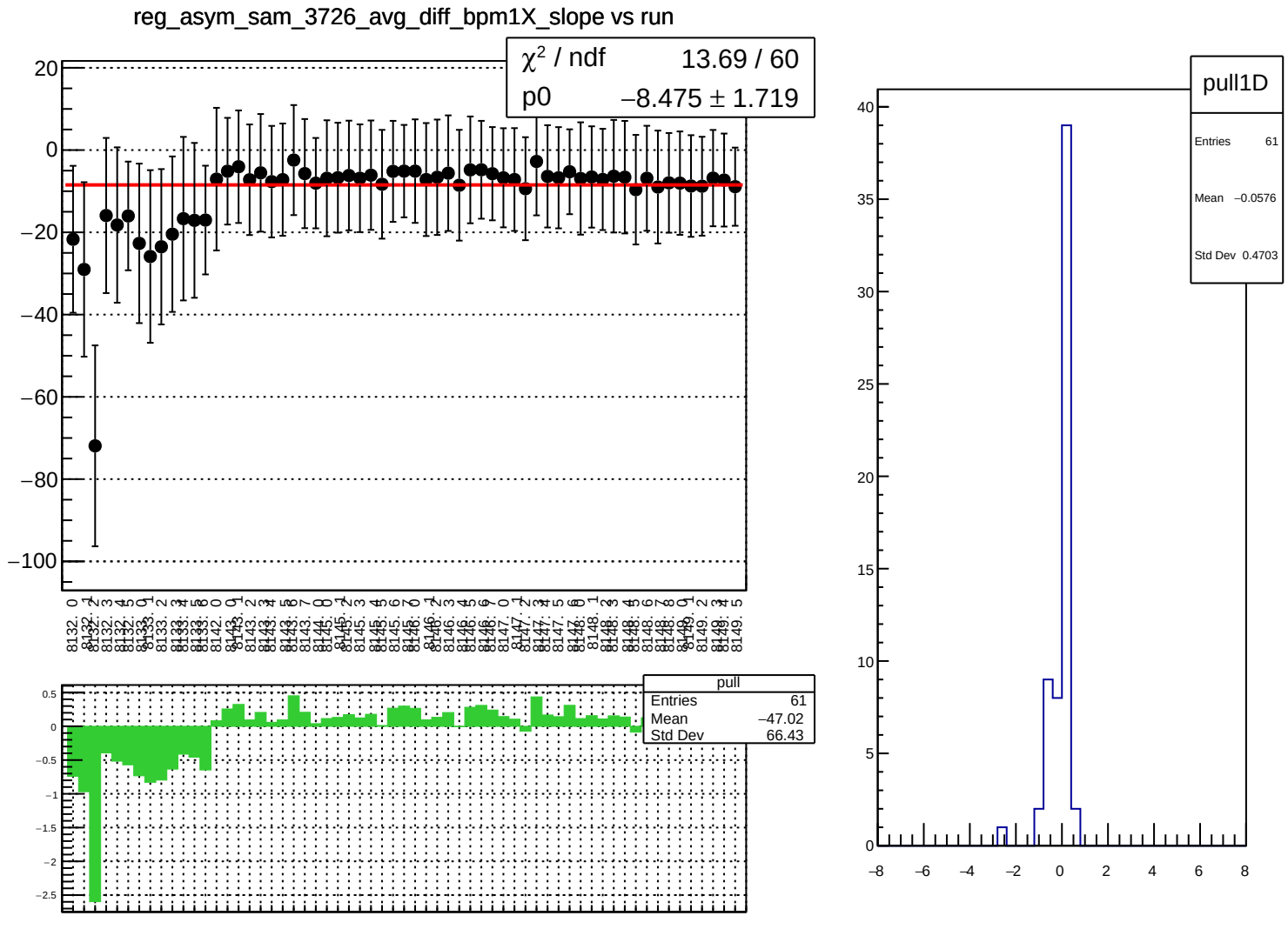

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.59 / 60
p0 −4.887 ± 1.519
pull
Entries 61
Mean −13.26
Std Dev 62.78
pull1D
Entries 61
Mean 0.03923
Std Dev 0.5041

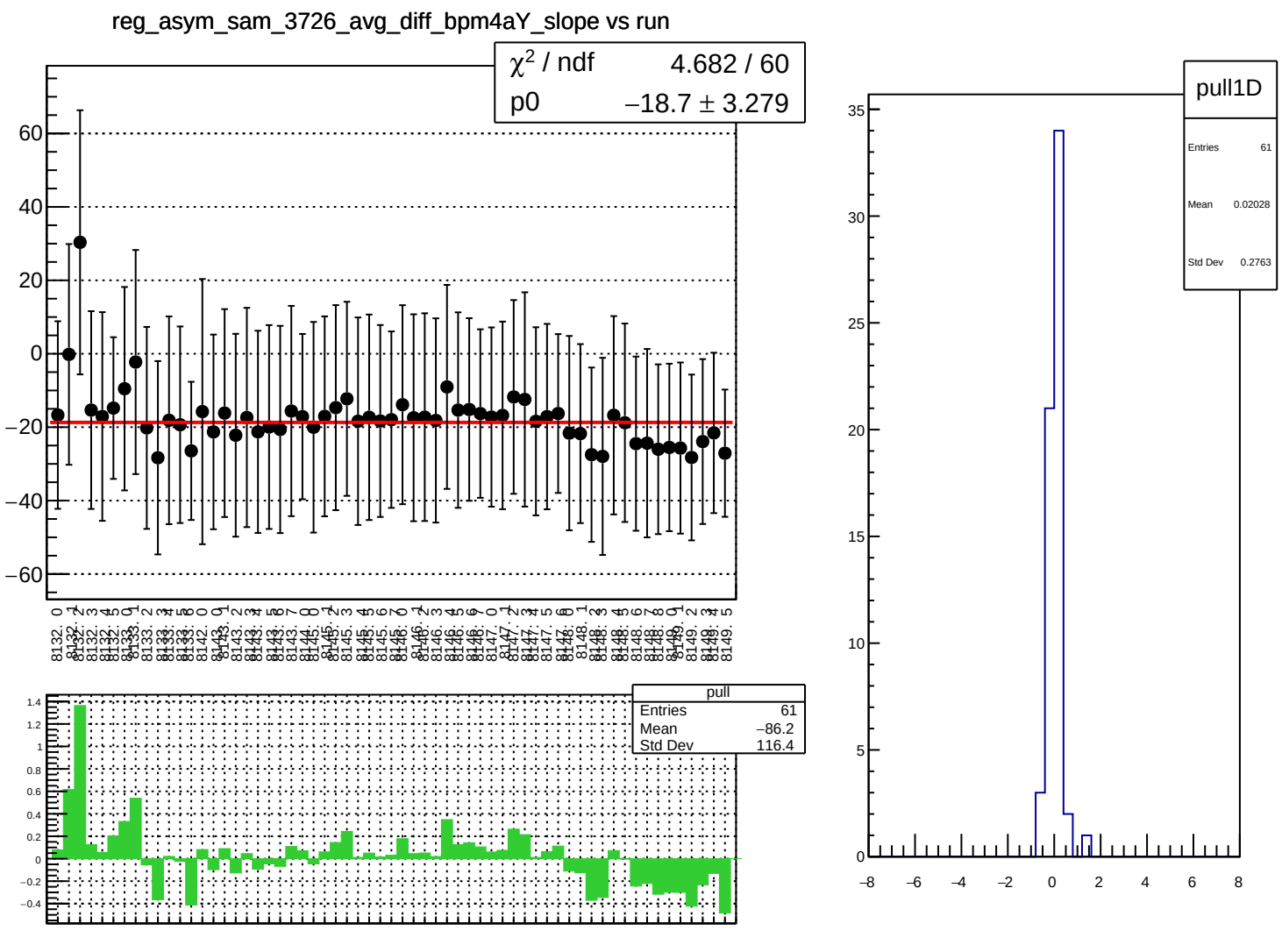

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.42 / 60
p0 −34.11 ± 0.7972
pull
Entries 61
Mean −45.06
Std Dev 59.48
pull1D
Entries 61
Mean 0.05923
Std Dev 0.5897

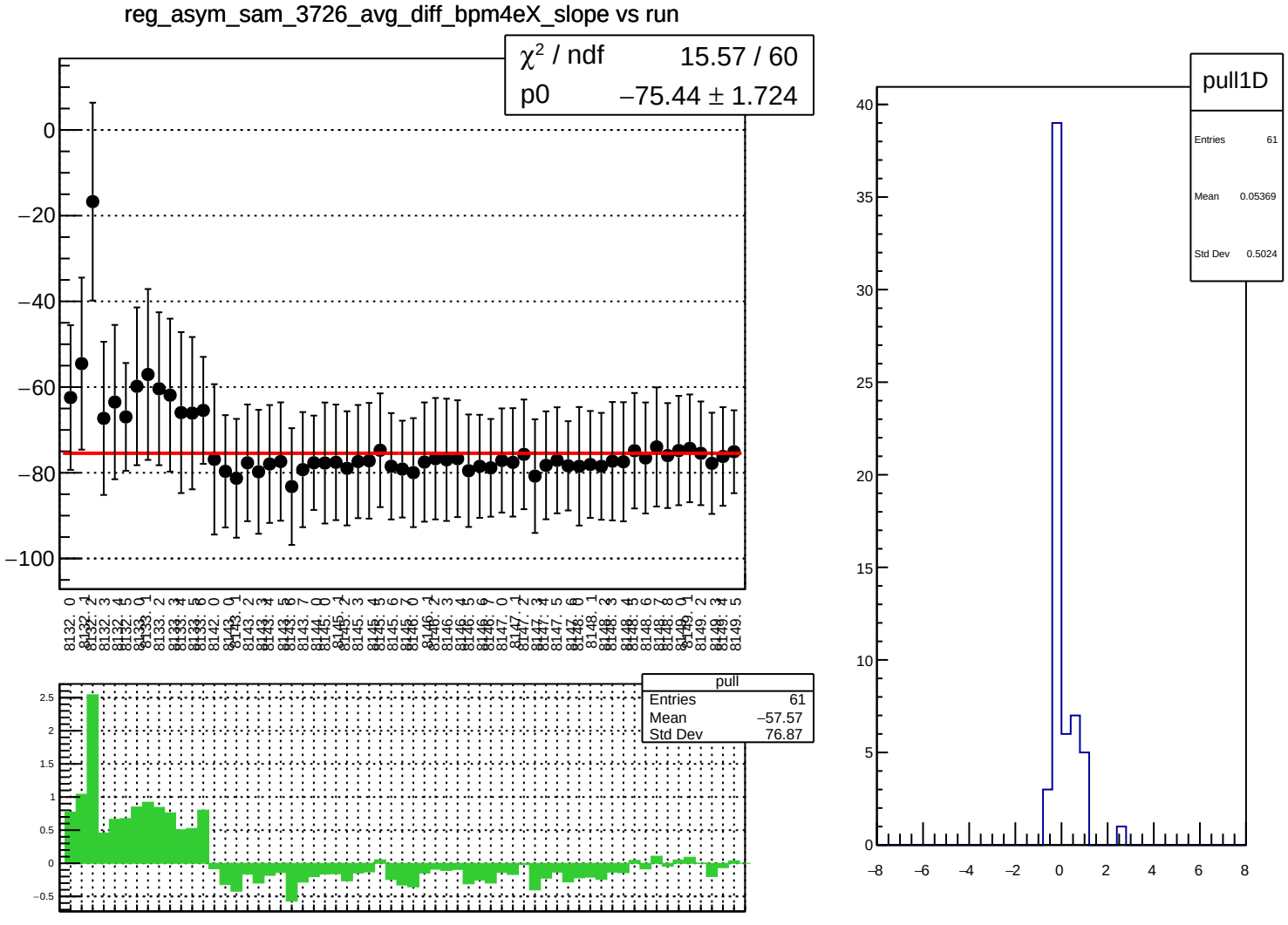

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.29 / 60
p0 9.877 ± 1.625
pull
Entries 61
Mean −8.1
Std Dev 59.92
pull1D
Entries 61
Mean −0.04686
Std Dev 0.5889

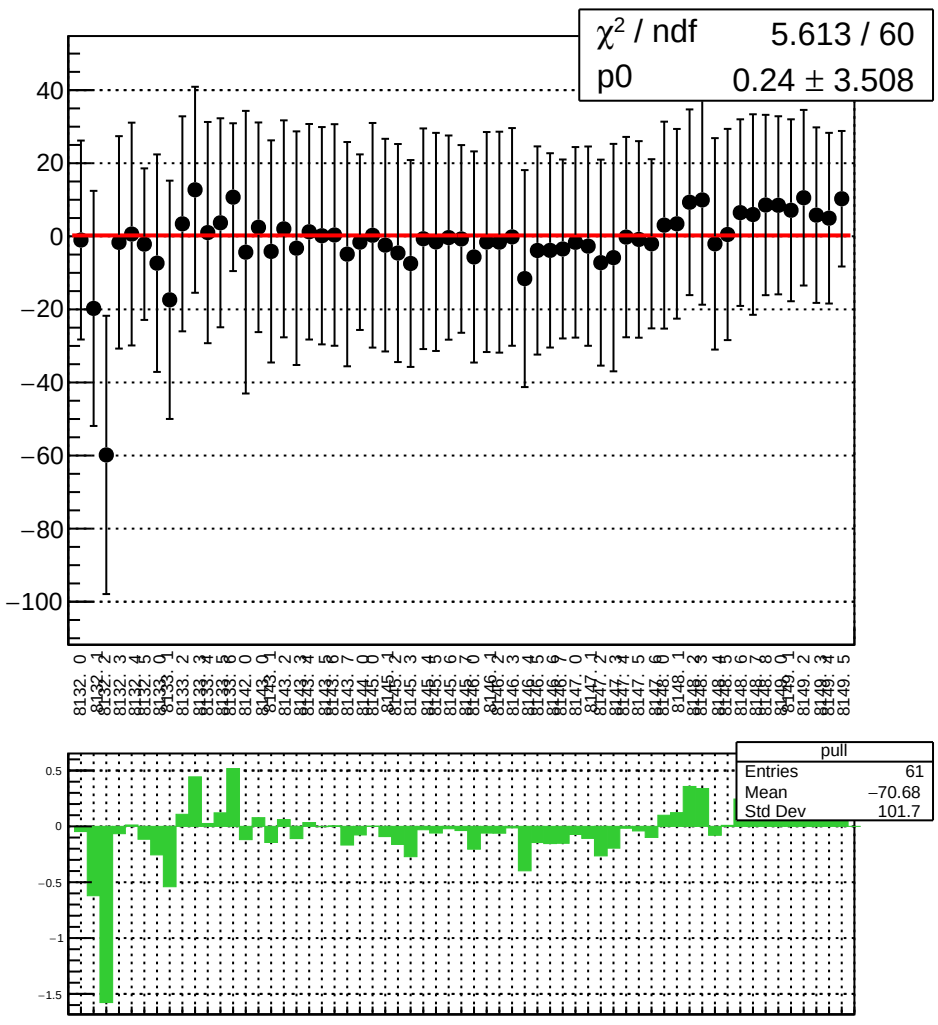

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 9.417 / 60
p0 0.6521± 0.06758
pull
Entries 61
Mean −101.3
Std Dev 131.9

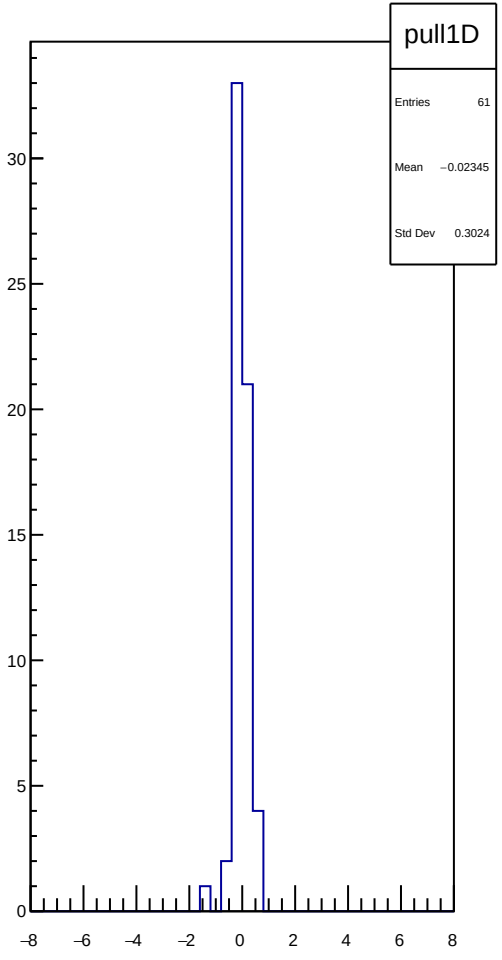

pull1D
Entries 61
Mean −0.0149
Std Dev 0.3926

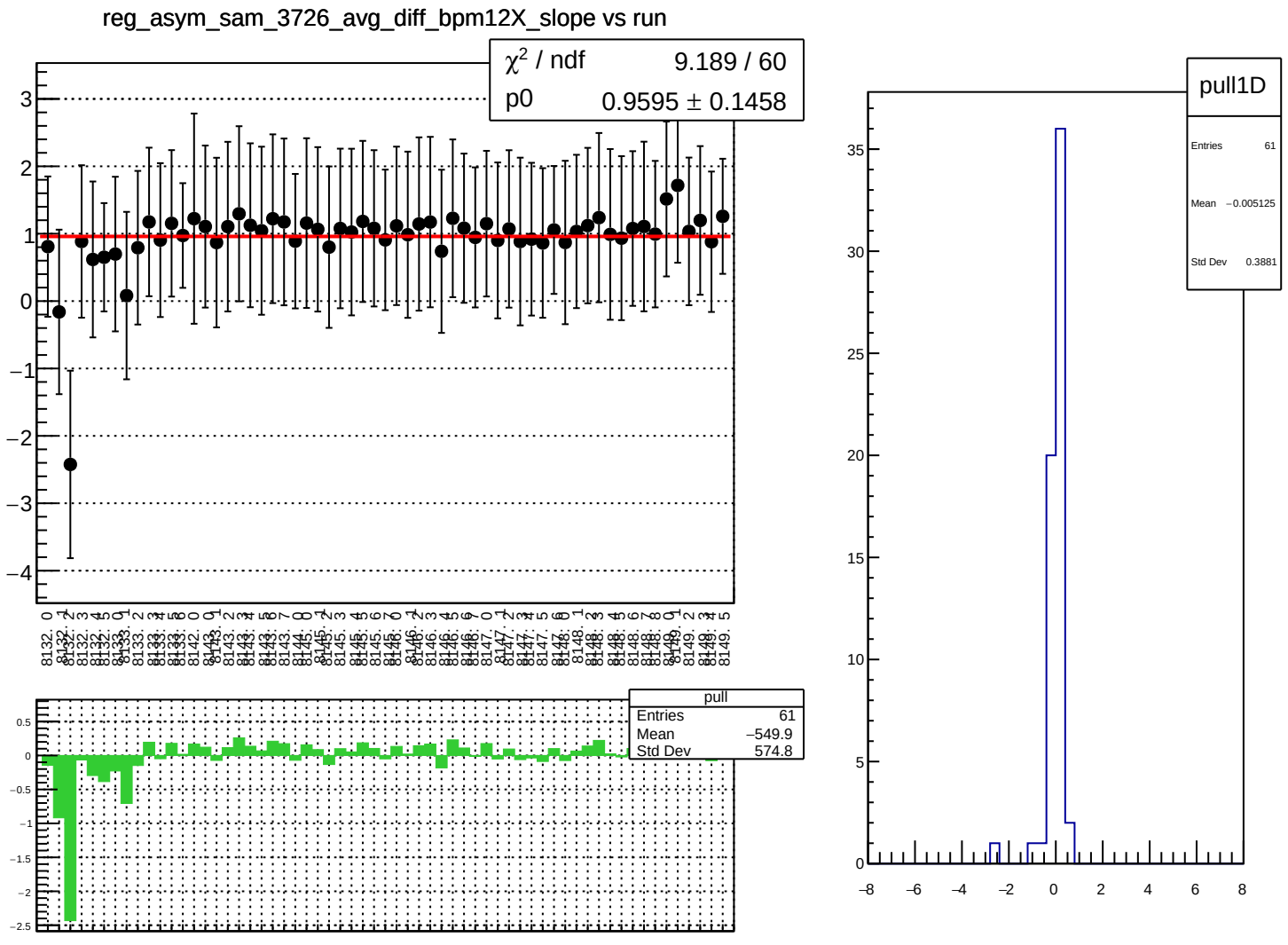

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 13.69 / 60
p0 −8.475 ± 1.719
pull
Entries 61
Mean −47.02
Std Dev 66.43
pull1D
Entries 61
Mean −0.0576
Std Dev 0.4703

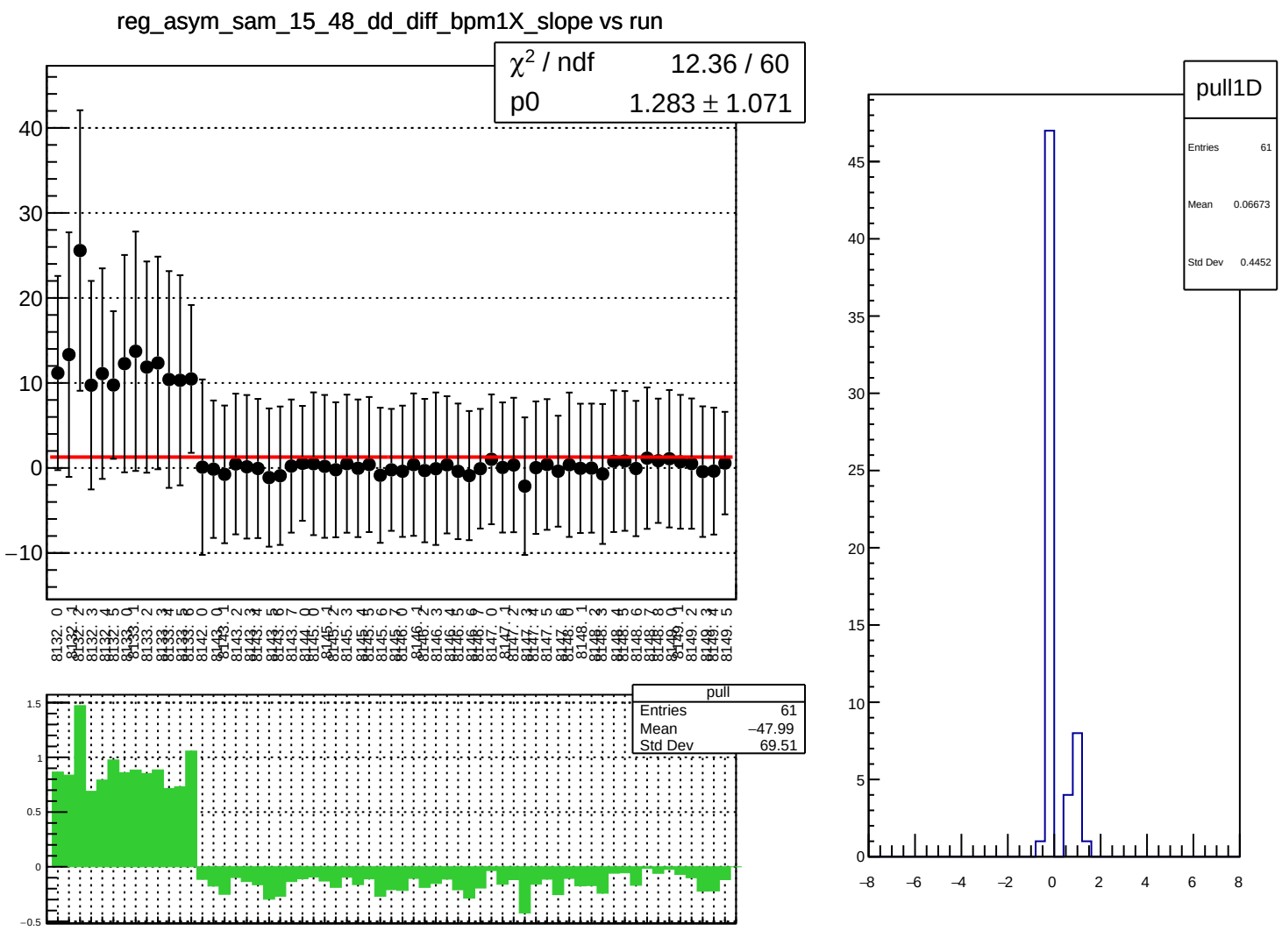

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.682 / 60
p0 −18.7 ± 3.279
pull
Entries 61
Mean −86.2
Std Dev 116.4
pull1D
Entries 61
Mean 0.02028
Std Dev 0.2763

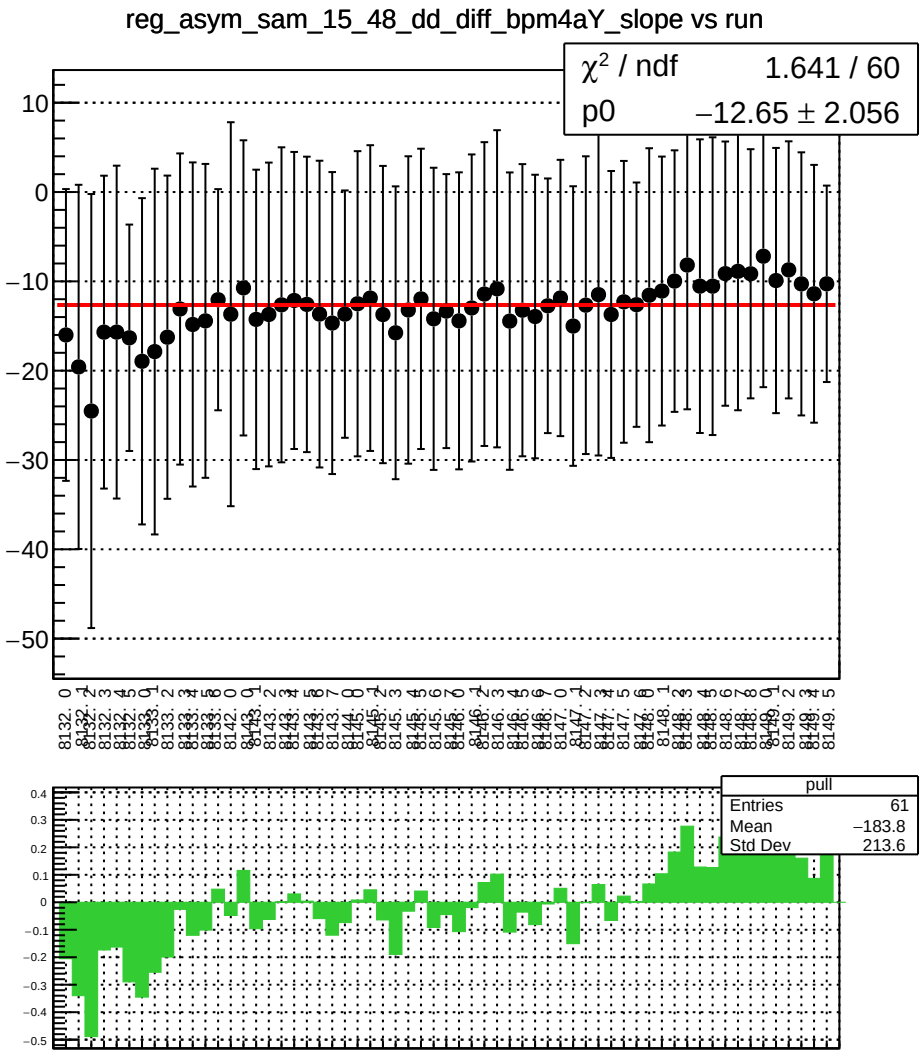

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.57 / 60
p0 −75.44 ± 1.724
pull
Entries 61
Mean −57.57
Std Dev 76.87
pull1D
Entries 61
Mean 0.05369
Std Dev 0.5024

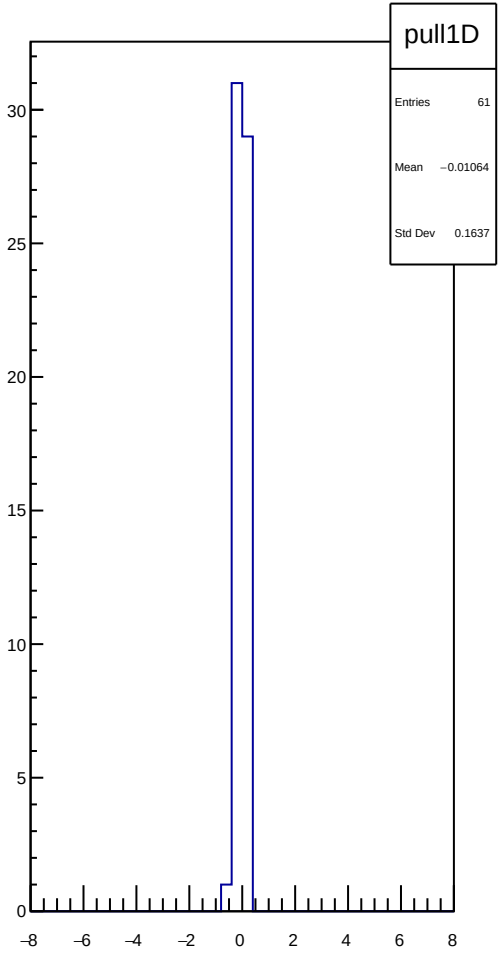

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.613 / 60
p0 0.24 ± 3.508
pull
Entries 61
Mean −70.68
Std Dev 101.7

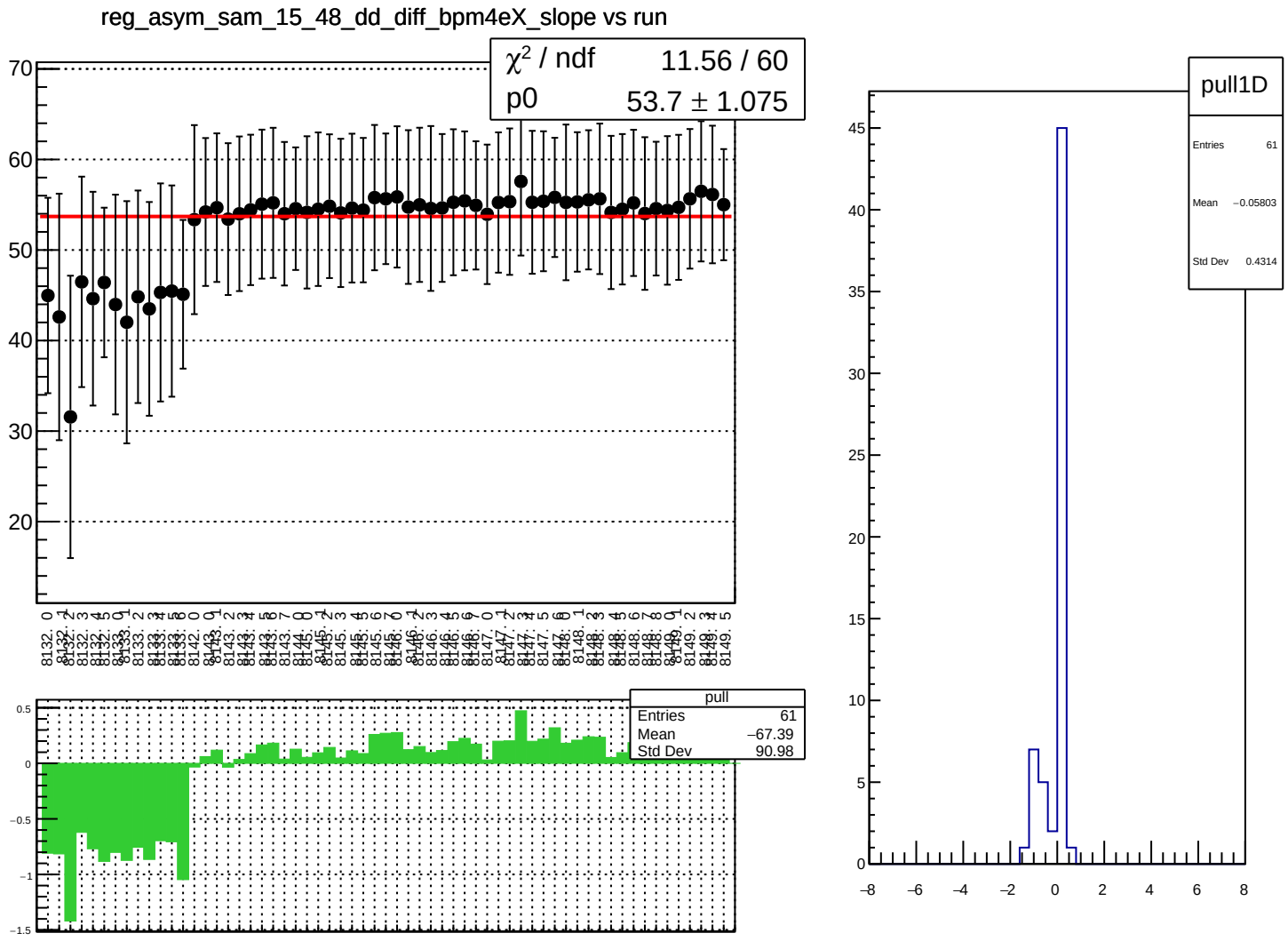

pull1D
Entries 61
Mean −0.02345
Std Dev 0.3024

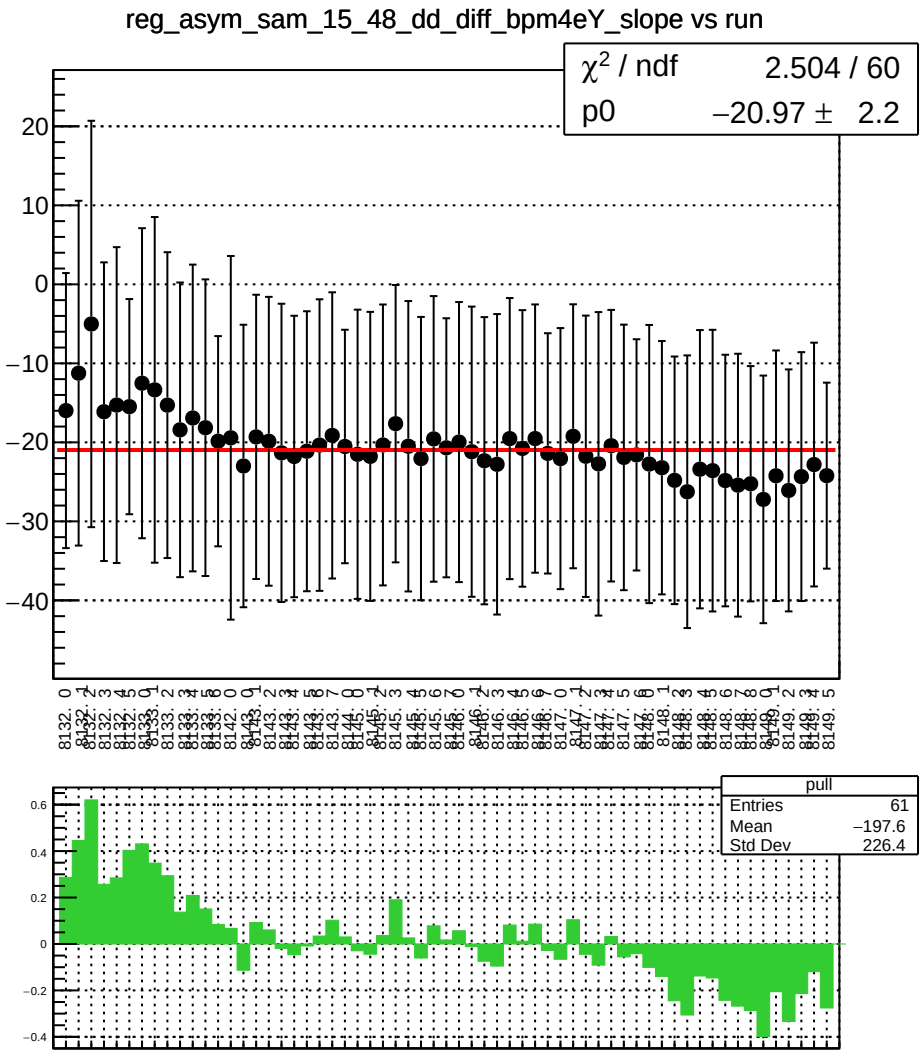

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 9.189 / 60
p0 0.9595 ± 0.1458
pull
Entries 61
Mean −549.9
Std Dev 574.8
pull1D
Entries 61
Mean −0.005125
Std Dev 0.3881

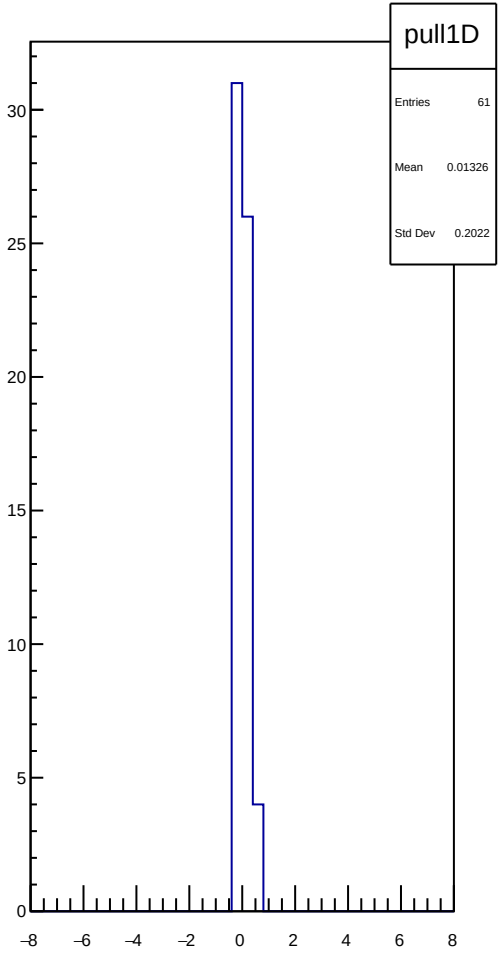

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 12.36 / 60
p0 1.283 ± 1.071
pull
Entries 61
Mean −47.99
Std Dev 69.51
pull1D
Entries 61
Mean 0.06673
Std Dev 0.4452

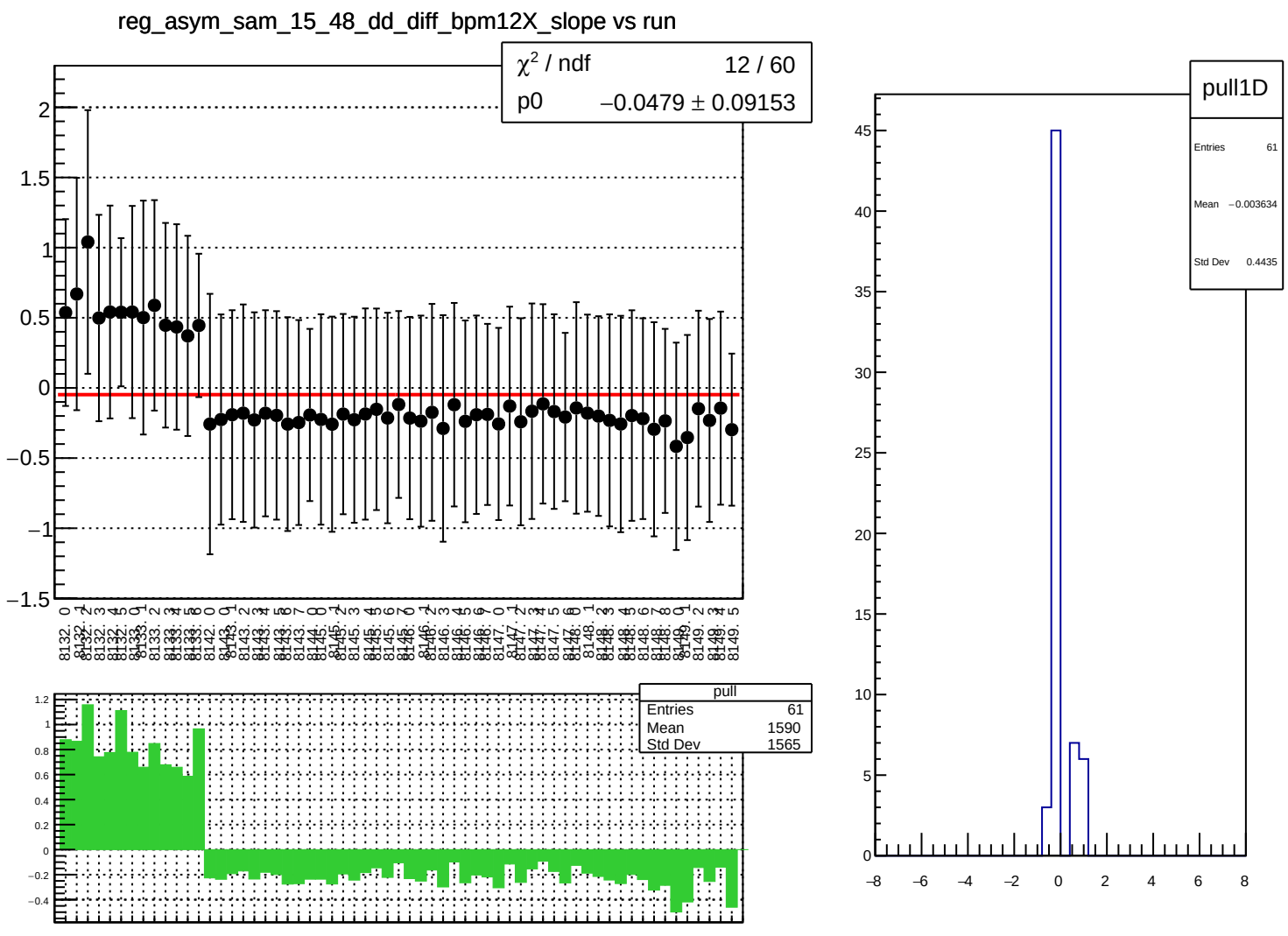

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.641 / 60
p0 −12.65 ± 2.056
pull
Entries 61
Mean −183.8
Std Dev 213.6

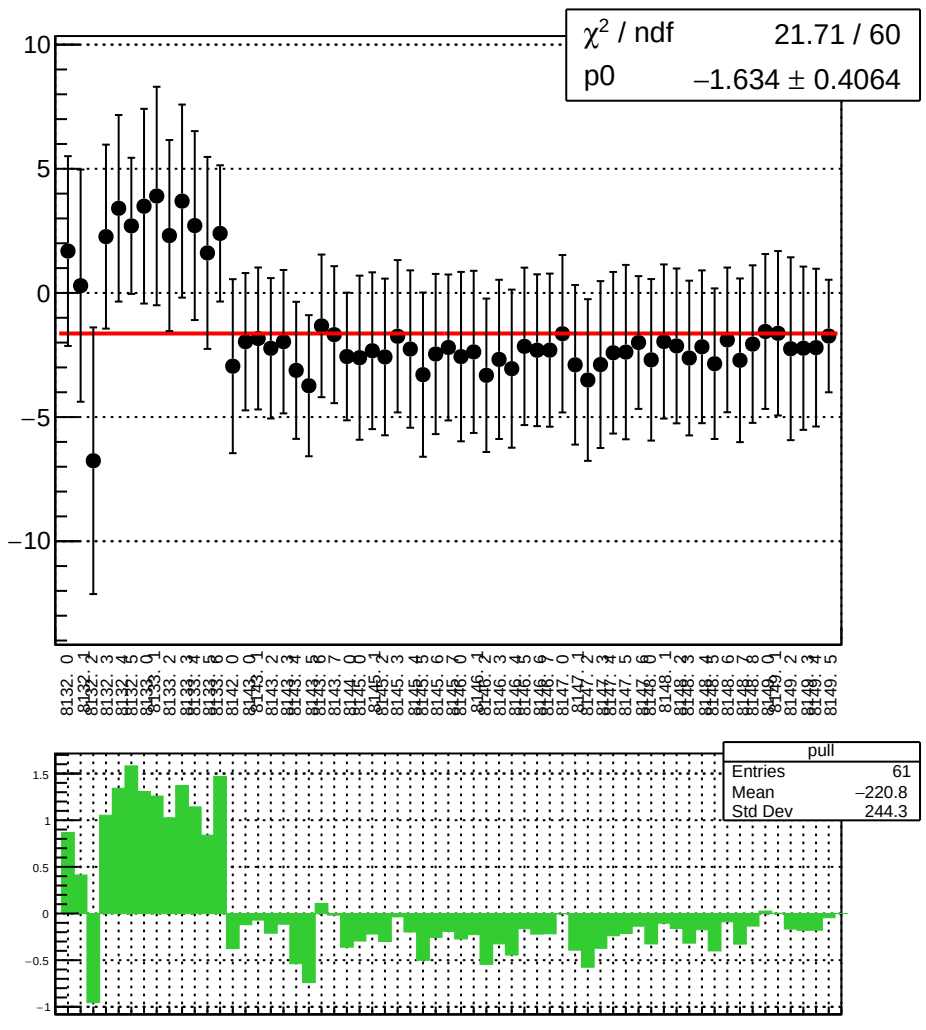

pull1D
Entries 61
Mean −0.01064
Std Dev 0.1637

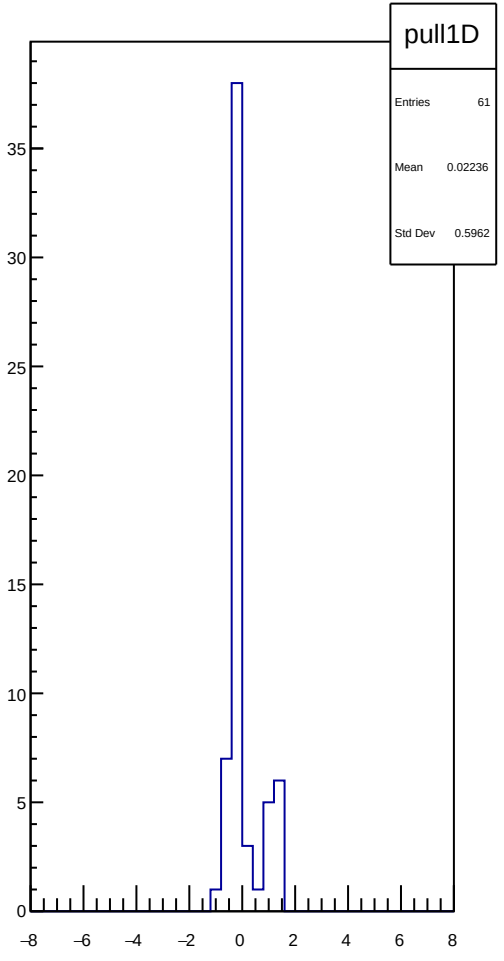

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.56 / 60
p0 53.7 ± 1.075
pull
Entries 61
Mean −67.39
Std Dev 90.98
pull1D
Entries 61
Mean −0.05803
Std Dev 0.4314

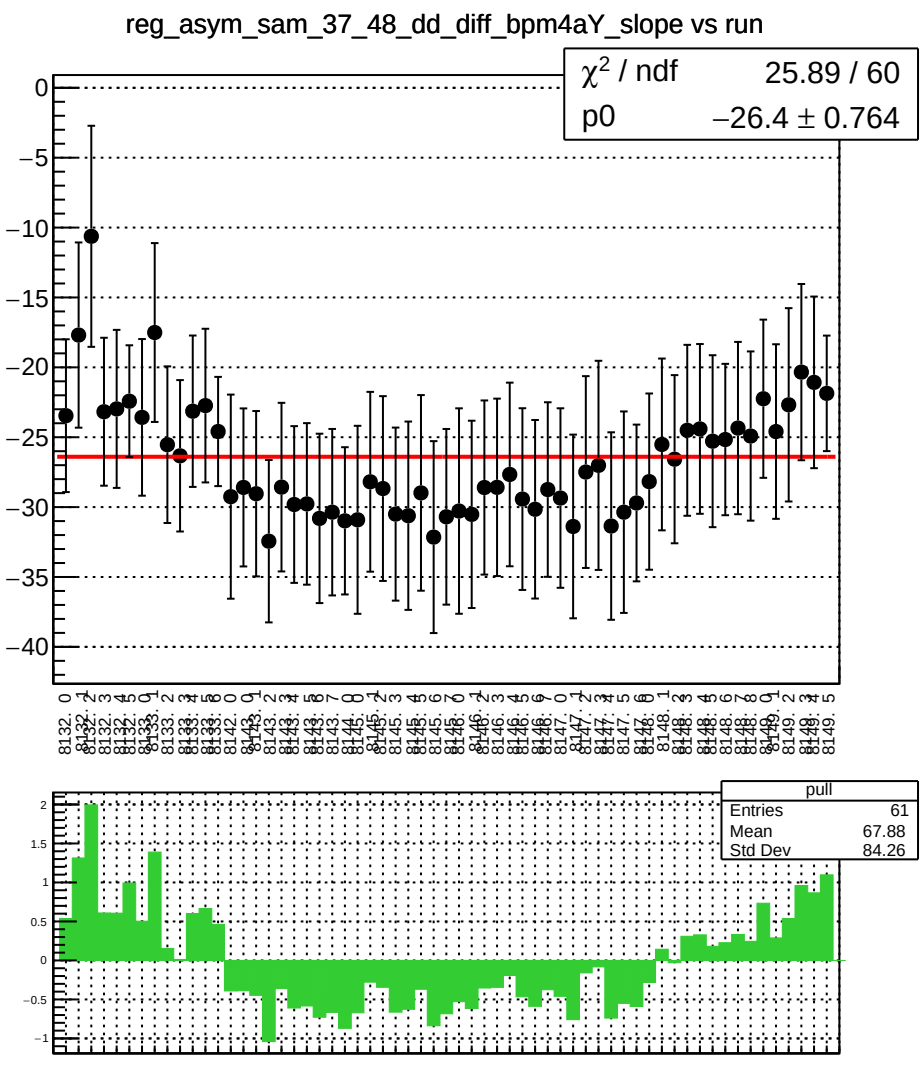

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.504 / 60
p0 −20.97 ± 2.2
pull
Entries 61
Mean −197.6
Std Dev 226.4

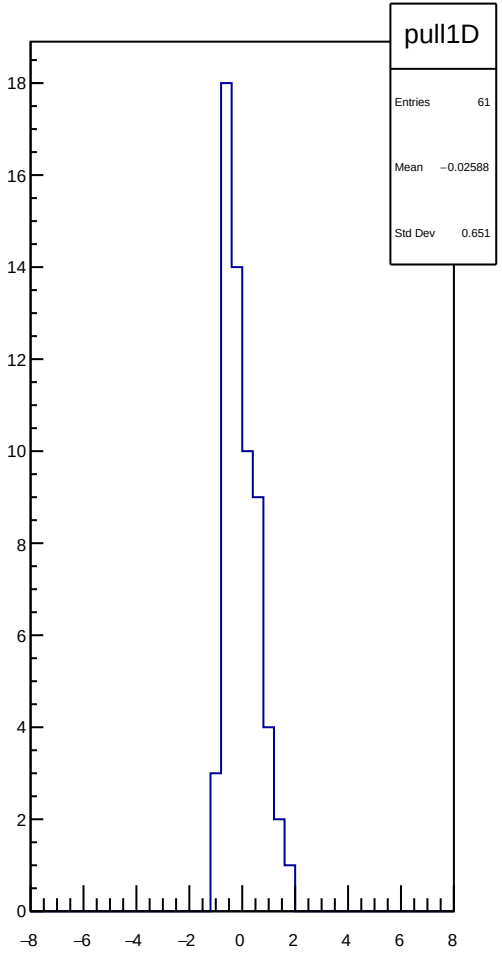

pull1D
Entries 61
Mean 0.01326
Std Dev 0.2022

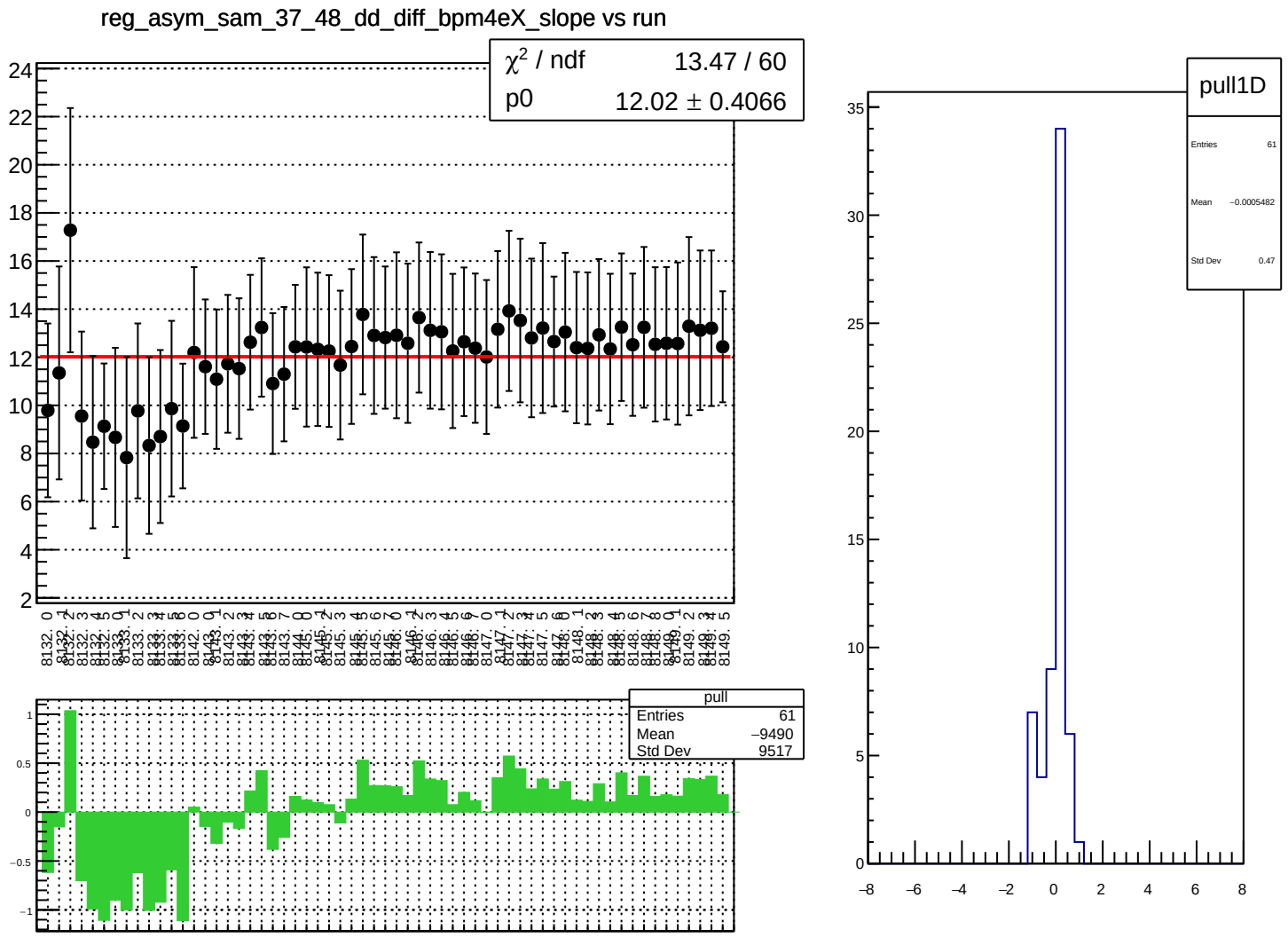

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 12 / 60
p0 −0.0479 ± 0.09153
pull
Entries 61
Mean 1590
Std Dev 1565
pull1D
Entries 61
Mean −0.003634
Std Dev 0.4435

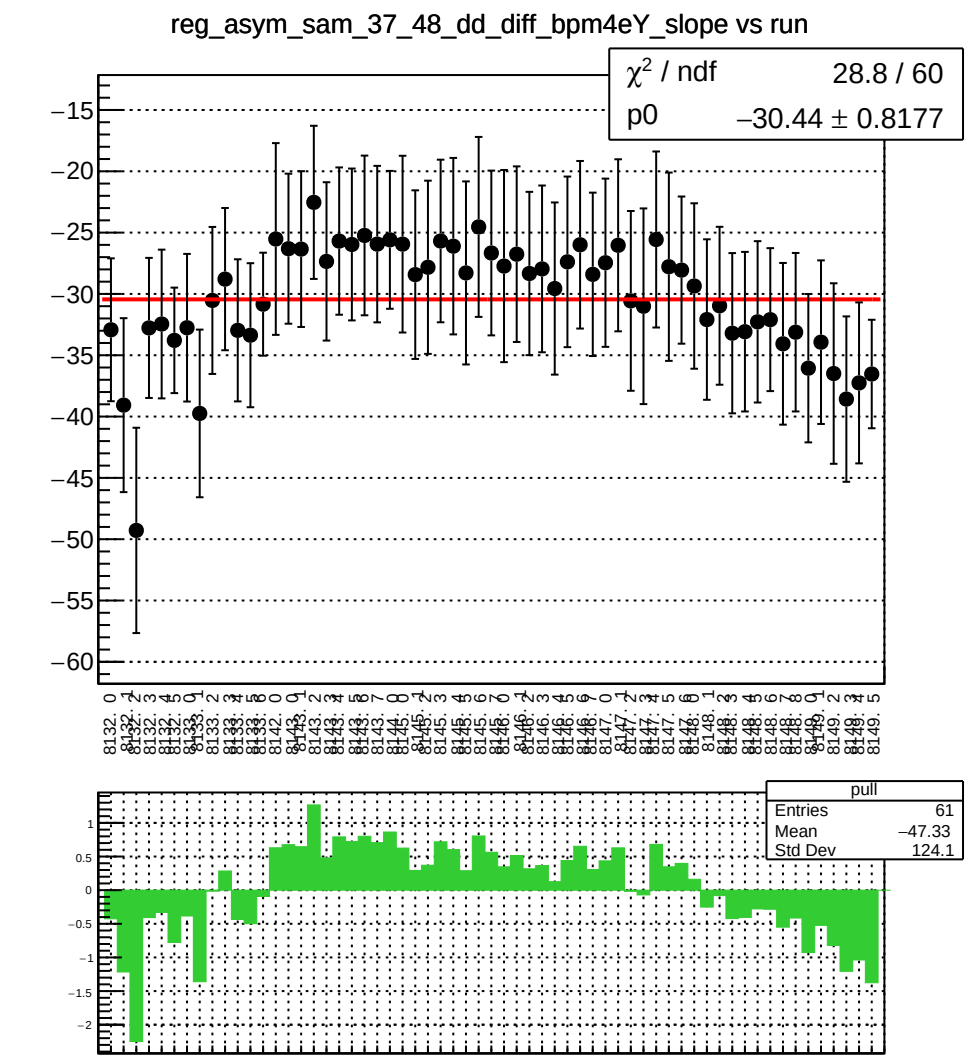

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 21.71 / 60
p0 −1.634 ± 0.4064
pull
Entries 61
Mean −220.8
Std Dev 244.3

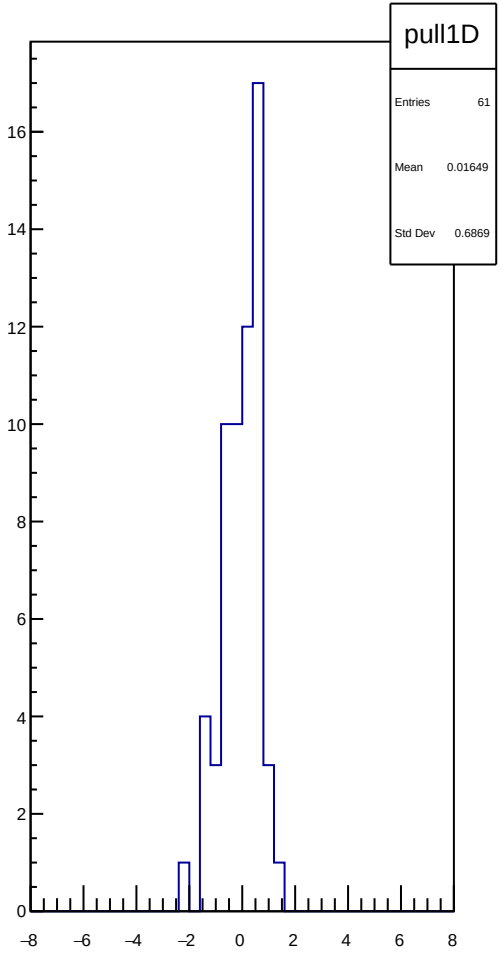

pull1D
Entries 61
Mean 0.02236
Std Dev 0.5962

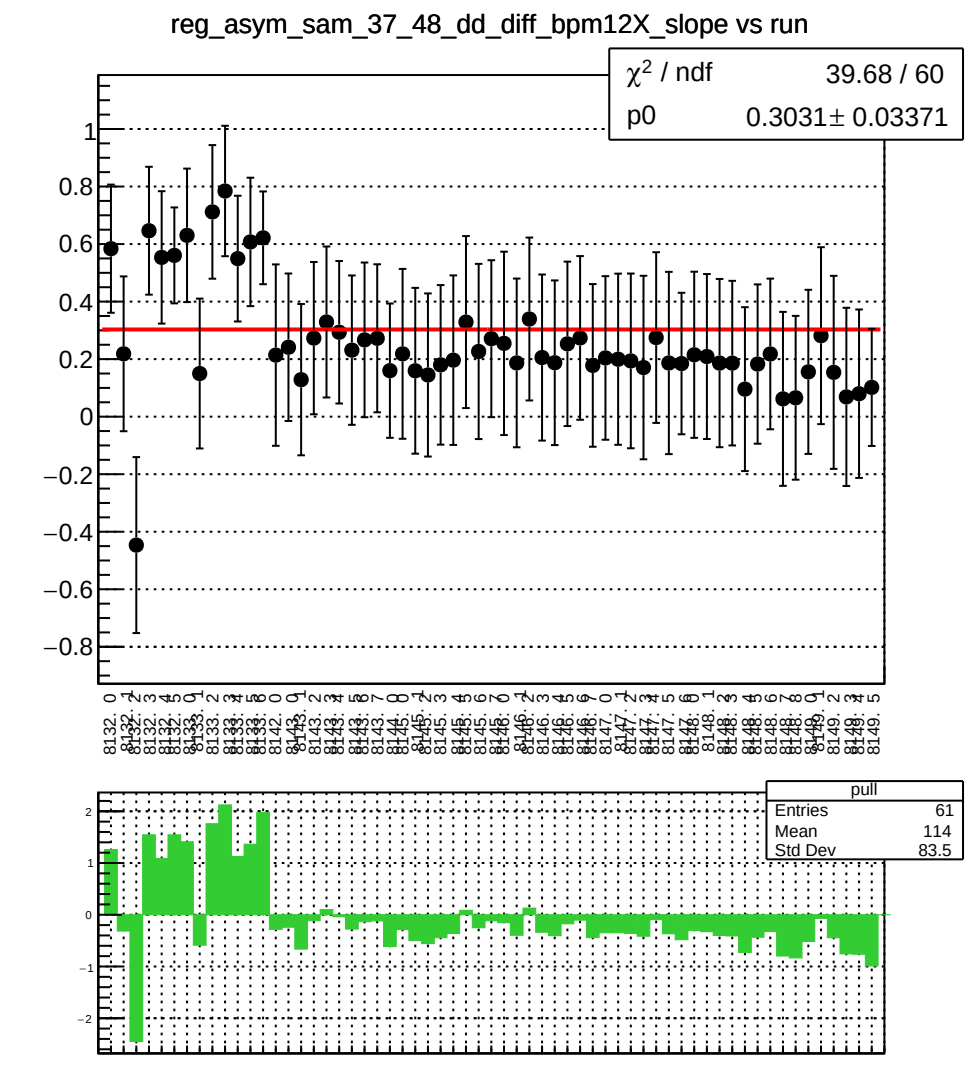

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.89 / 60
p0 −26.4 ± 0.764
pull
Entries 61
Mean 67.88
Std Dev 84.26

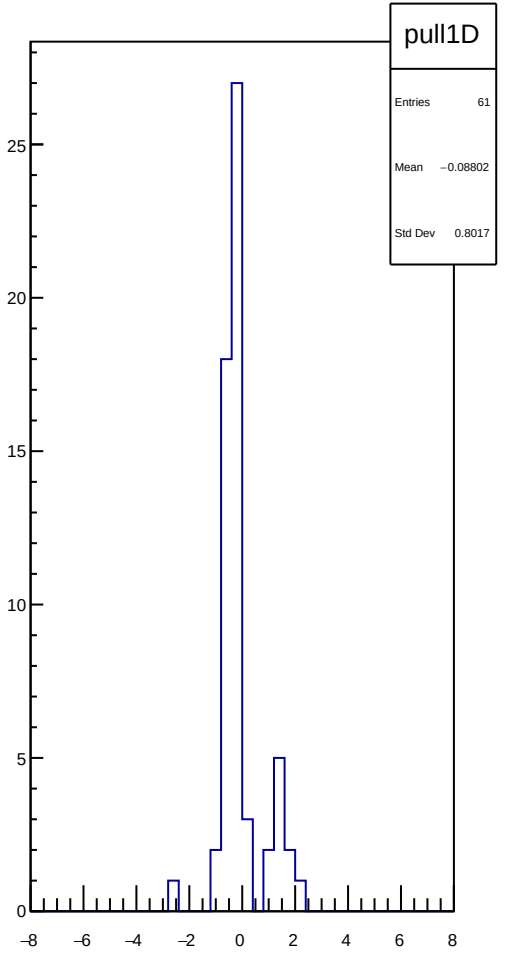

pull1D
Entries 61
Mean −0.02588
Std Dev 0.651

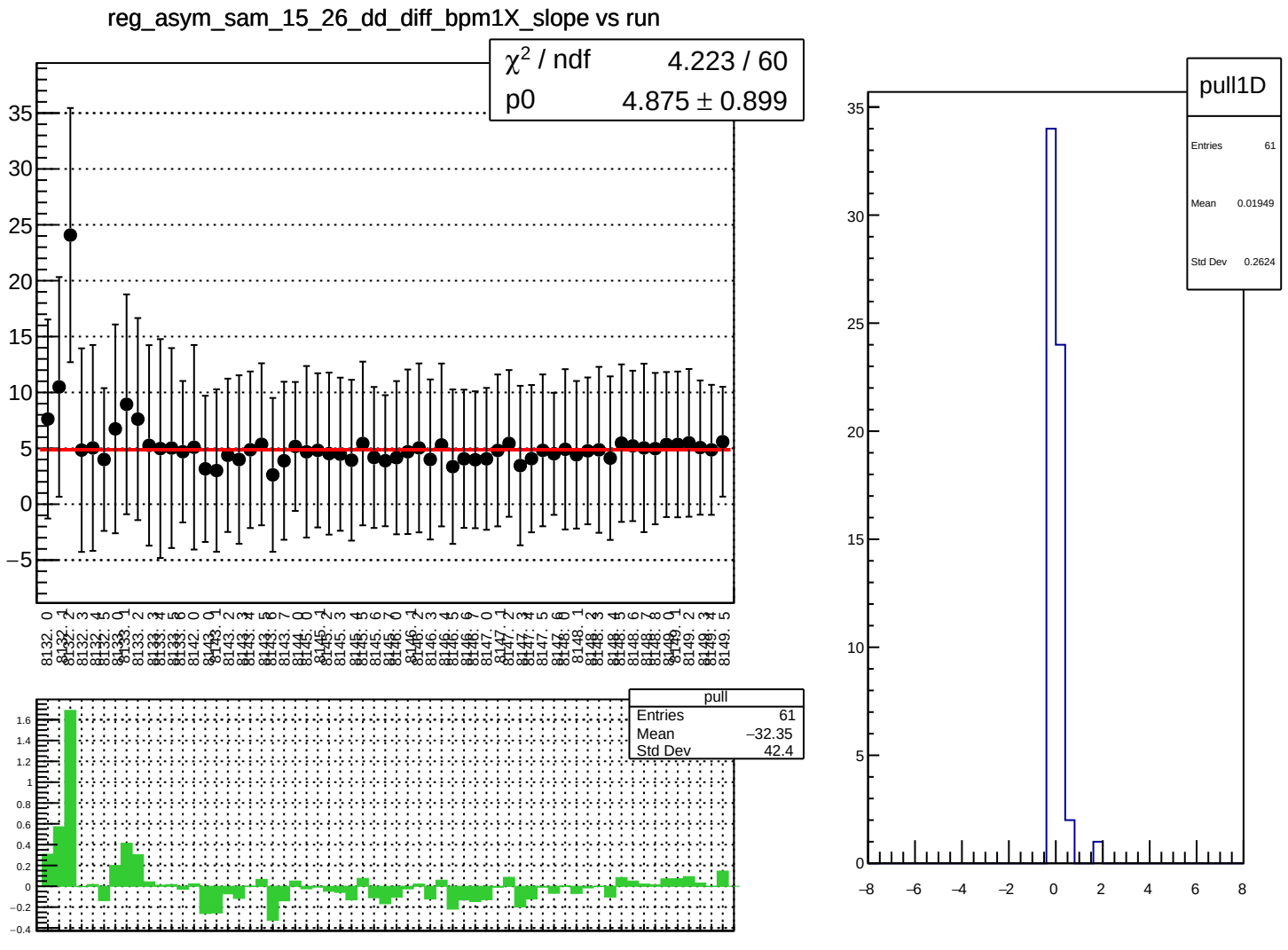

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.47 / 60
p0 12.02 ± 0.4066
pull
Entries 61
Mean −9490
Std Dev 9517
pull1D
Entries 61
Mean −0.0005482
Std Dev 0.47

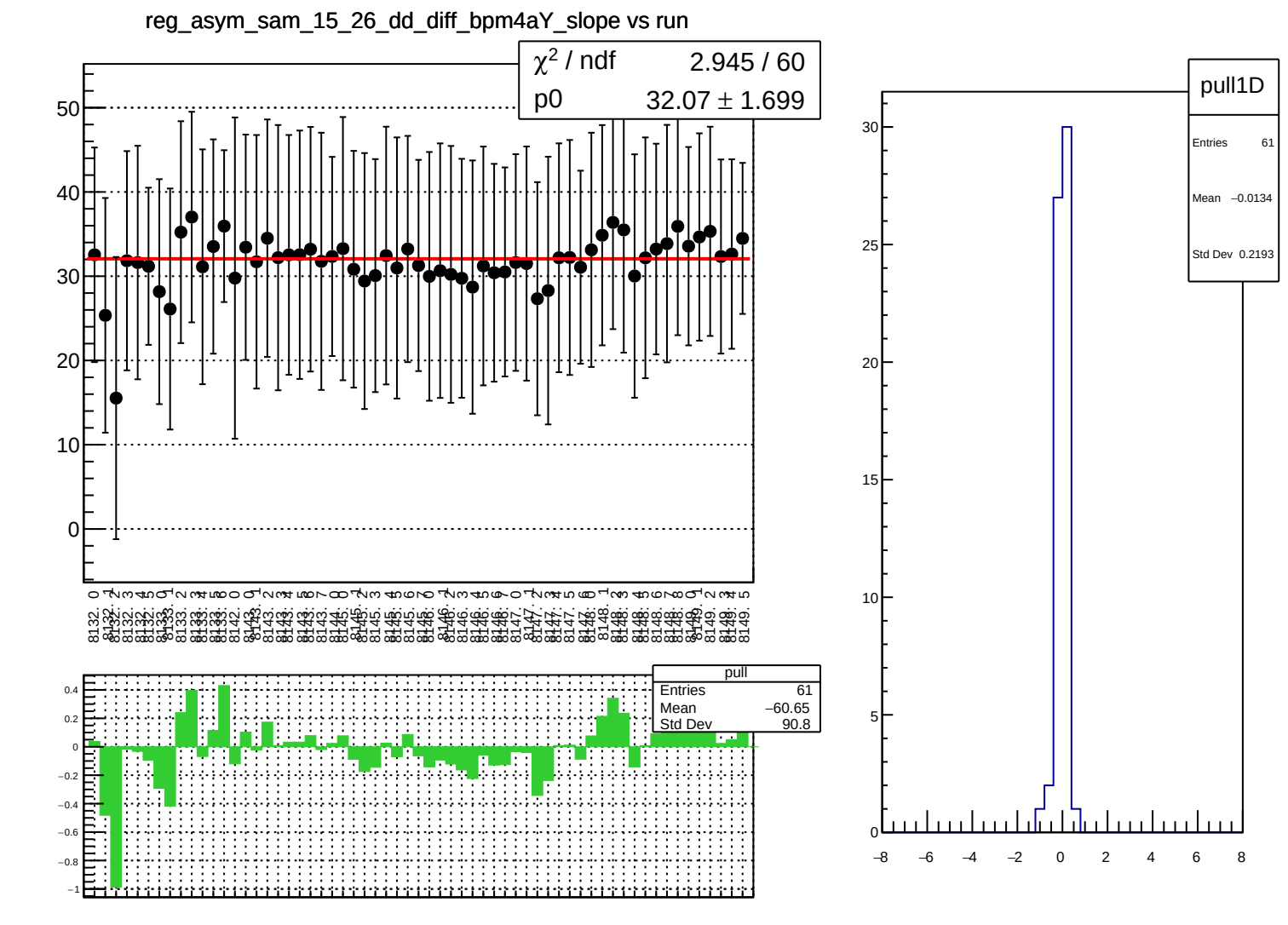

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.8 / 60
p0 −30.44 ± 0.8177
pull
Entries 61
Mean −47.33
Std Dev 124.1

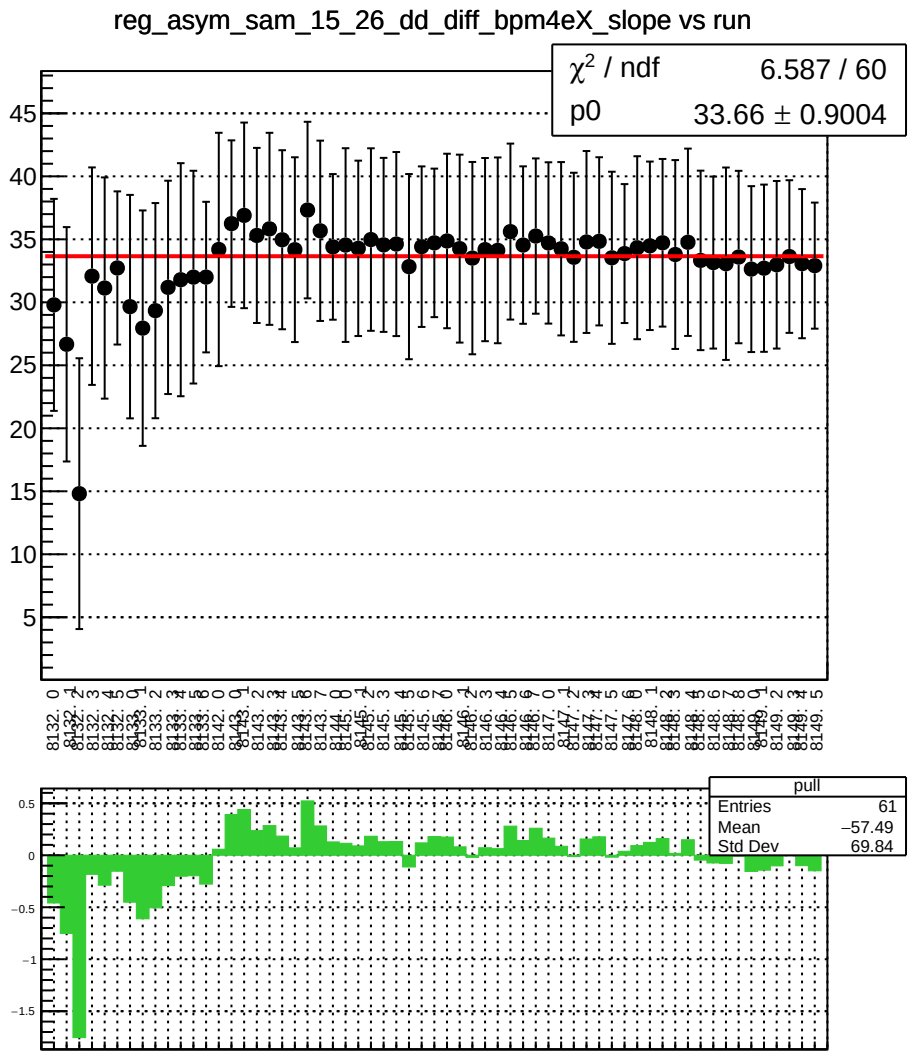

pull1D
Entries 61
Mean 0.01649
Std Dev 0.6869

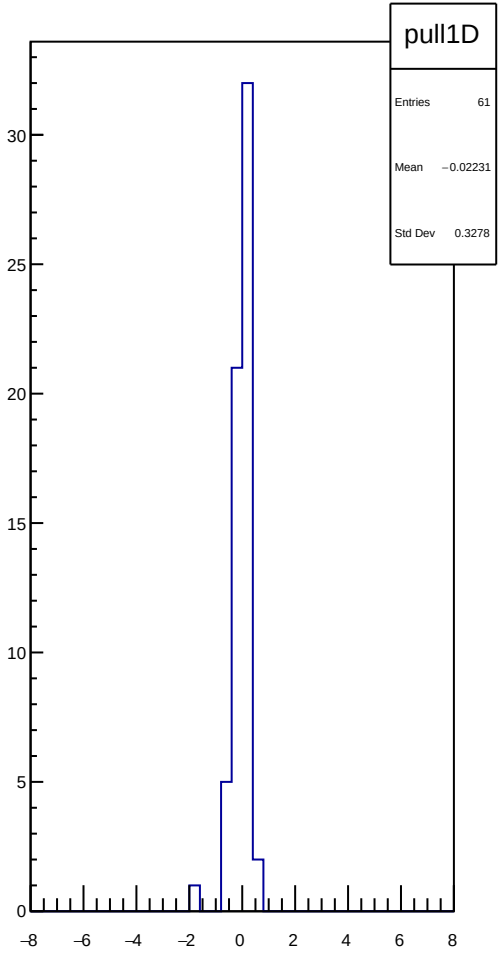

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 39.68 / 60
p0 0.3031± 0.03371
pull
Entries 61
Mean 114
Std Dev 83.5

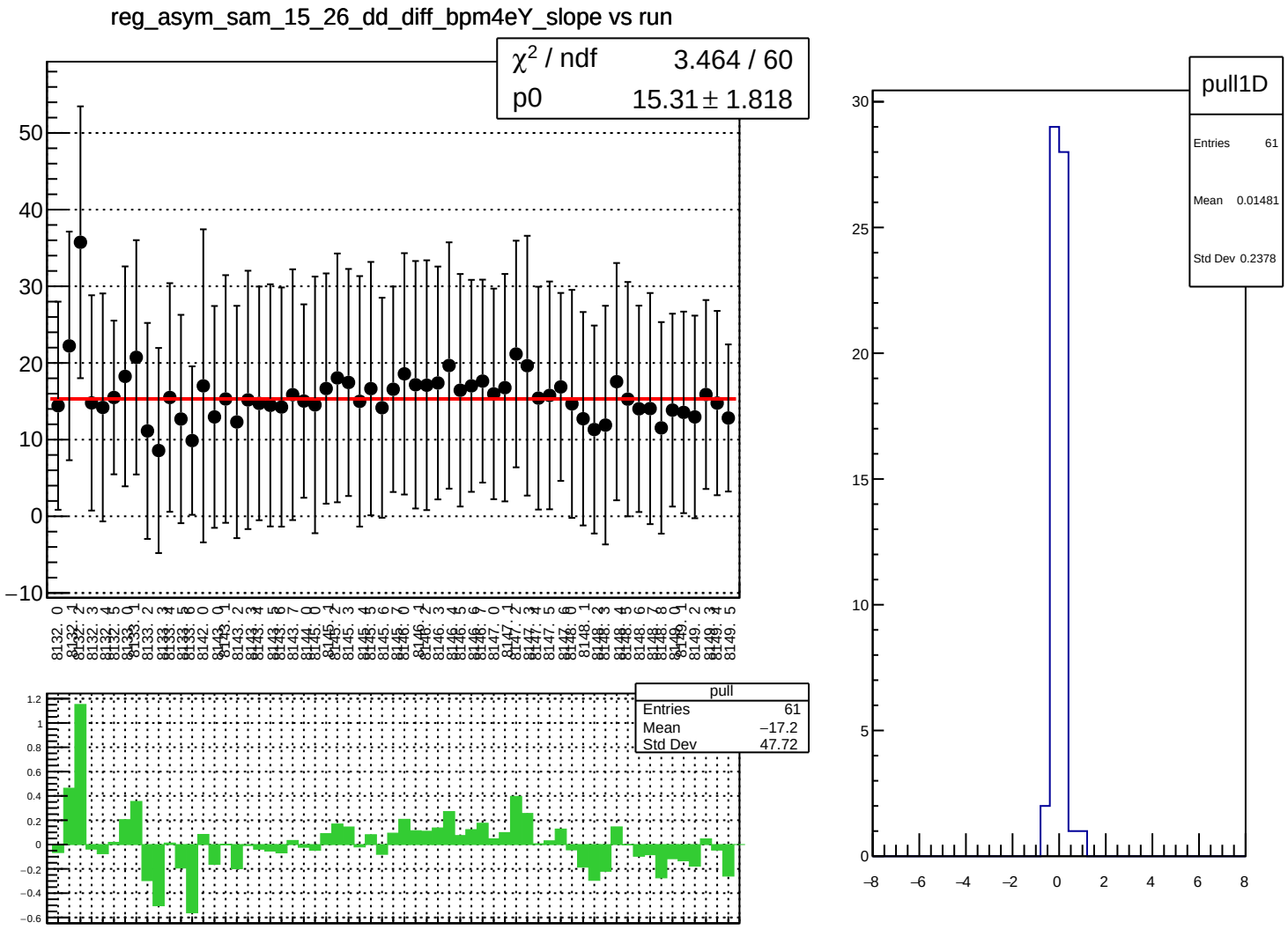

pull1D
Entries 61
Mean −0.08802
Std Dev 0.8017

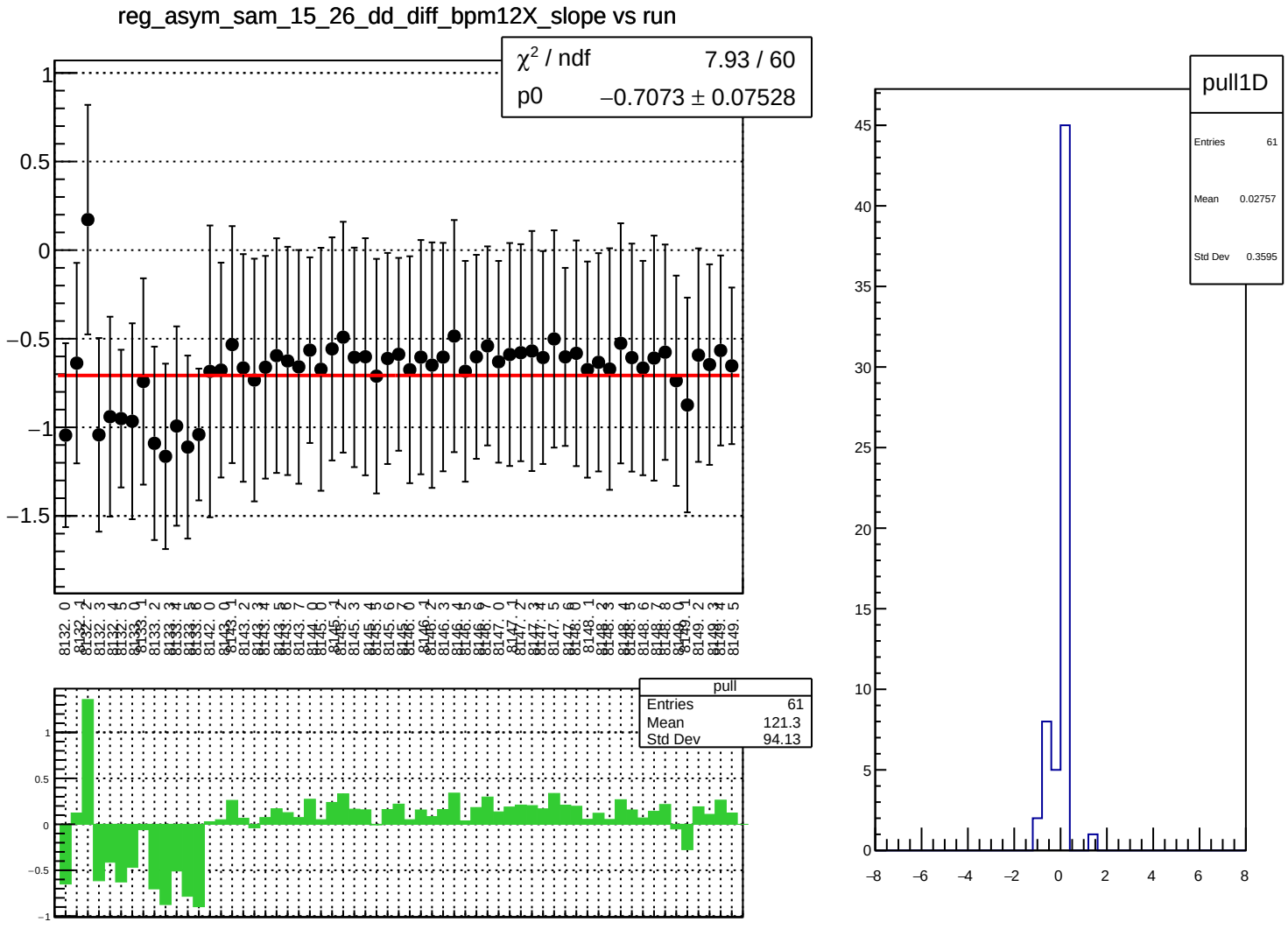

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 4.223 / 60
p0 4.875 ± 0.899
pull
Entries 61
Mean −32.35
Std Dev 42.4
pull1D
Entries 61
Mean 0.01949
Std Dev 0.2624

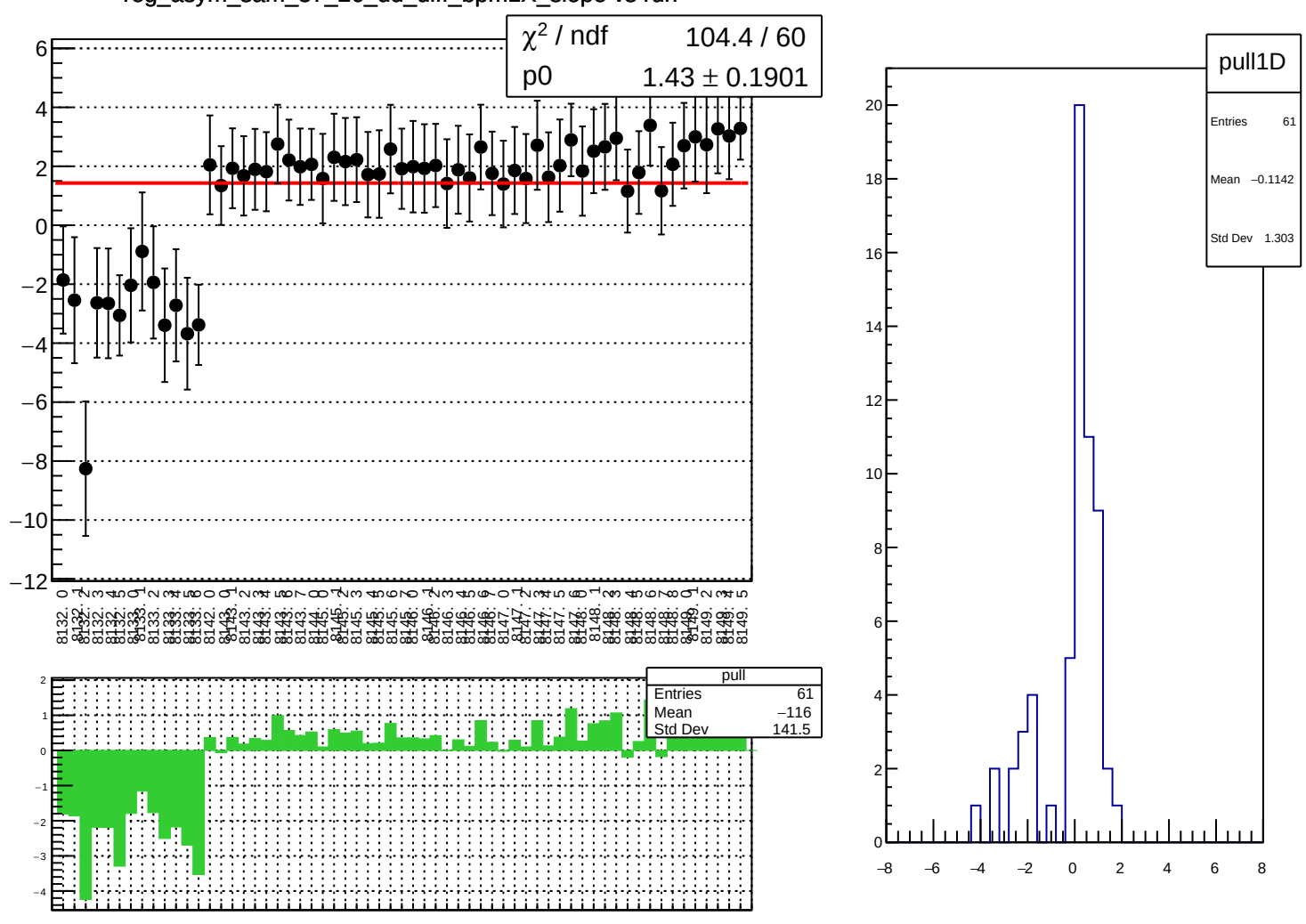

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.945 / 60
p0 32.07 ± 1.699
pull
Entries 61
Mean −60.65
Std Dev 90.8
pull1D
Entries 61
Mean −0.0134
Std Dev 0.2193

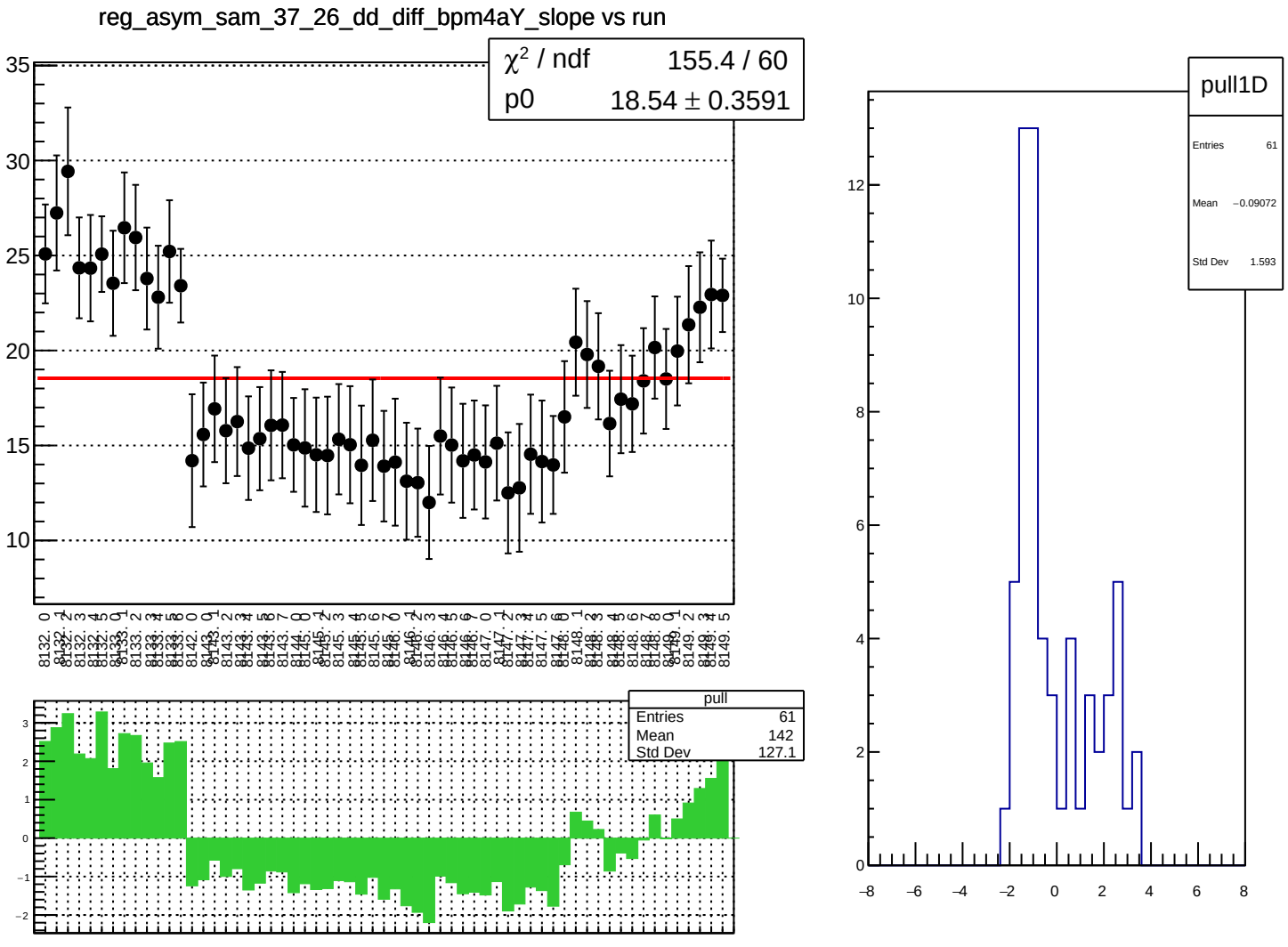

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.587 / 60
p0 33.66 ± 0.9004
pull
Entries 61
Mean −57.49
Std Dev 69.84

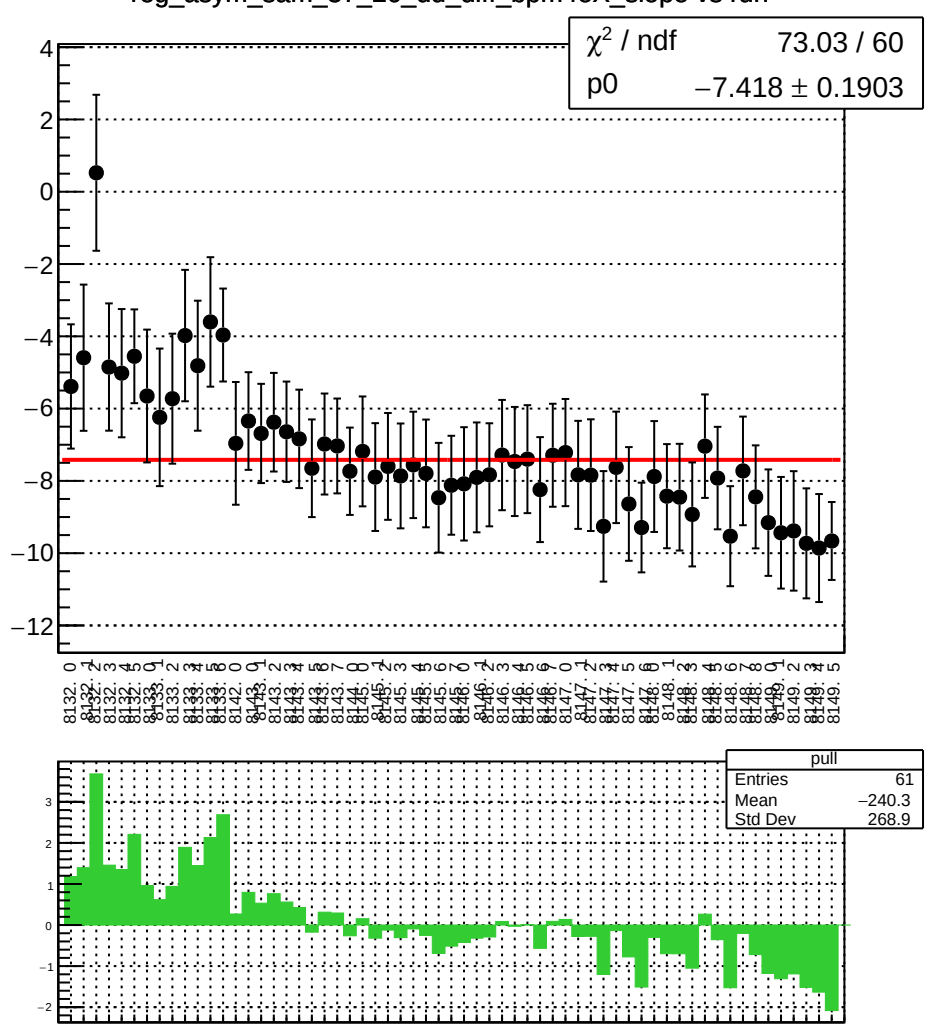

pull1D
Entries 61
Mean −0.02231
Std Dev 0.3278

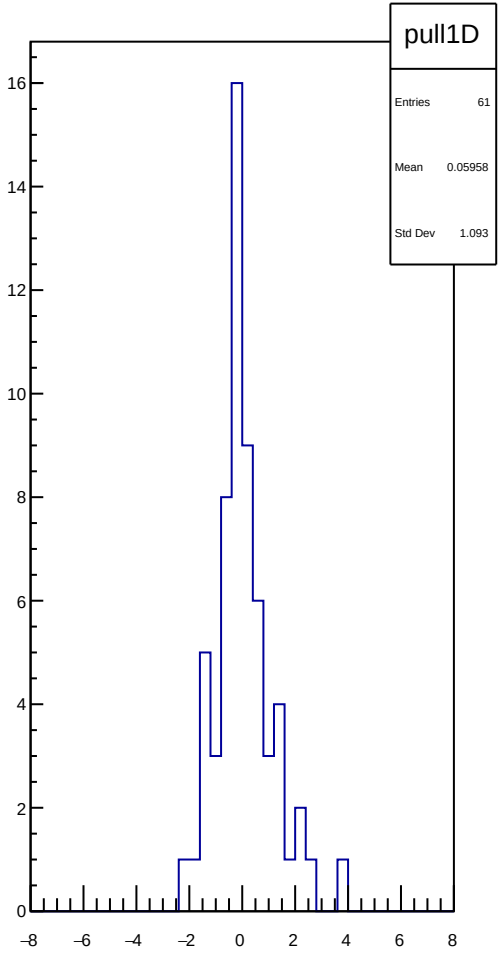

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.464 / 60
p0 15.31 ± 1.818
pull
Entries 61
Mean −17.2
Std Dev 47.72
pull1D
Entries 61
Mean 0.01481
Std Dev 0.2378

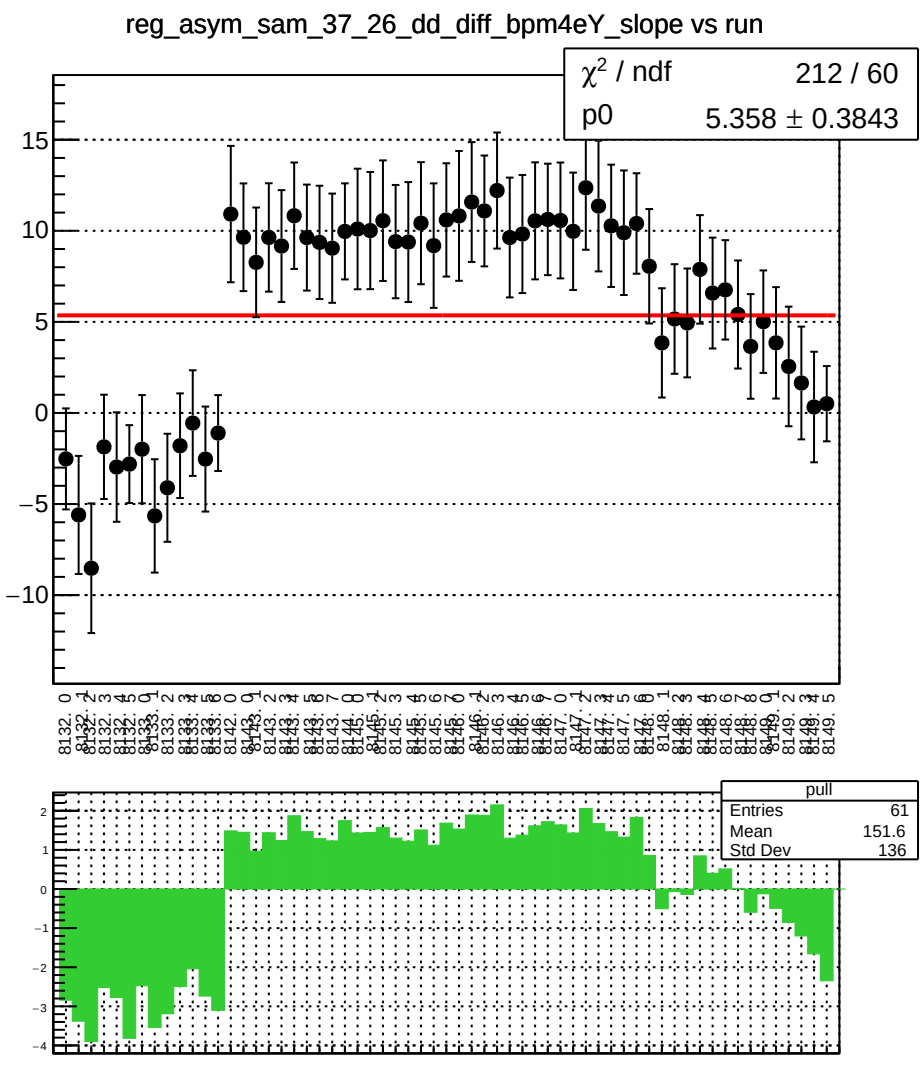

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 7.93 / 60
p0 −0.7073 ± 0.07528
pull
Entries 61
Mean 121.3
Std Dev 94.13
pull1D
Entries 61
Mean 0.02757
Std Dev 0.3595

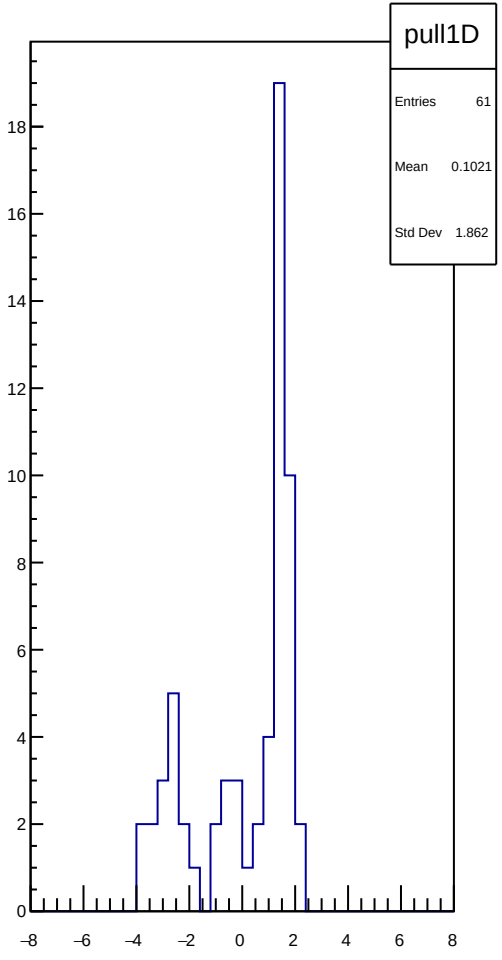

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 104.4 / 60
p0 1.43 ± 0.1901
pull
Entries 61
Mean −116
Std Dev 141.5
pull1D
Entries 61
Mean −0.1142
Std Dev 1.303

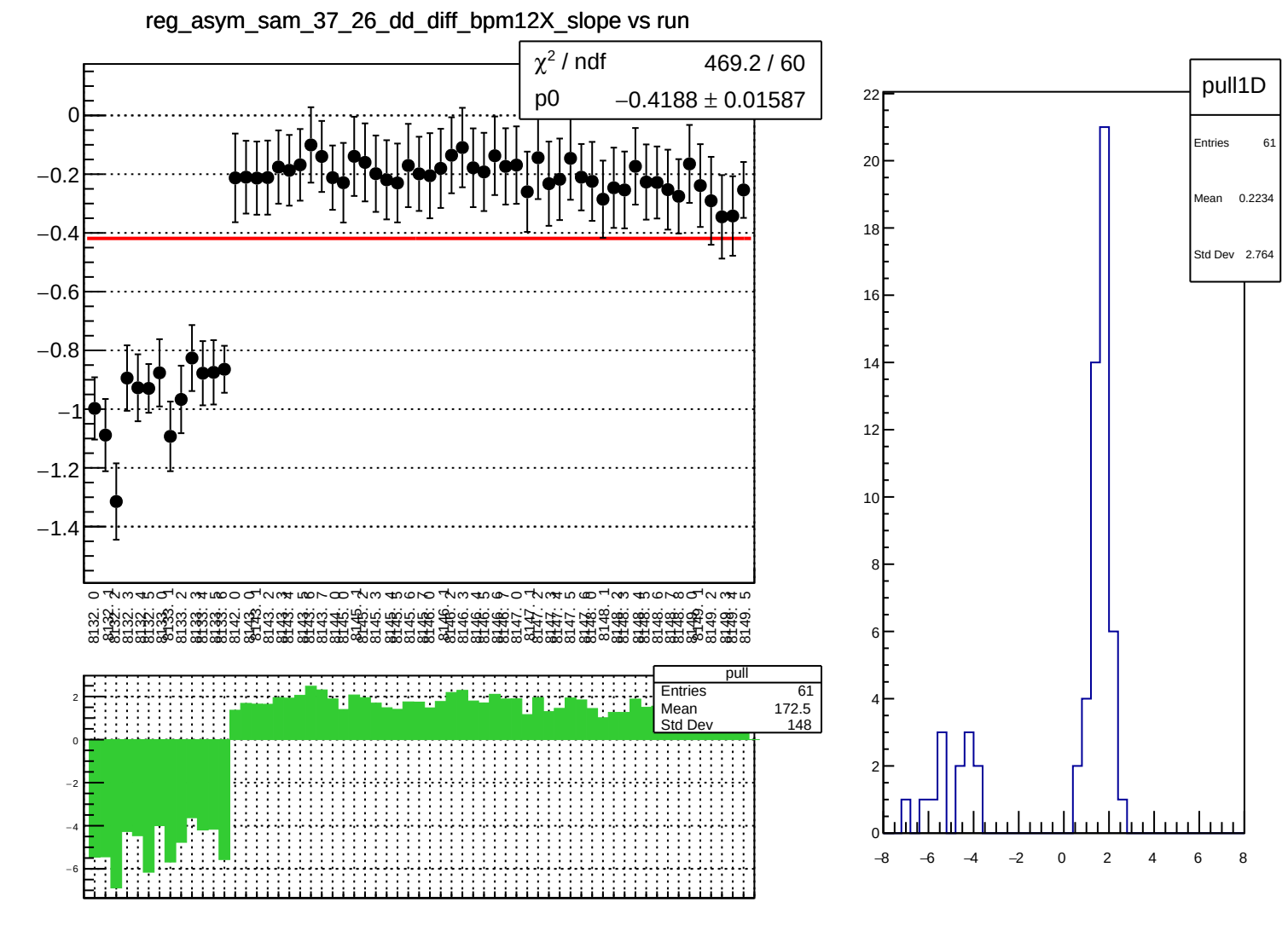

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 155.4 / 60
p0 18.54 ± 0.3591
pull
Entries 61
Mean 142
Std Dev 127.1
pull1D
Entries 61
Mean −0.09072
Std Dev 1.593

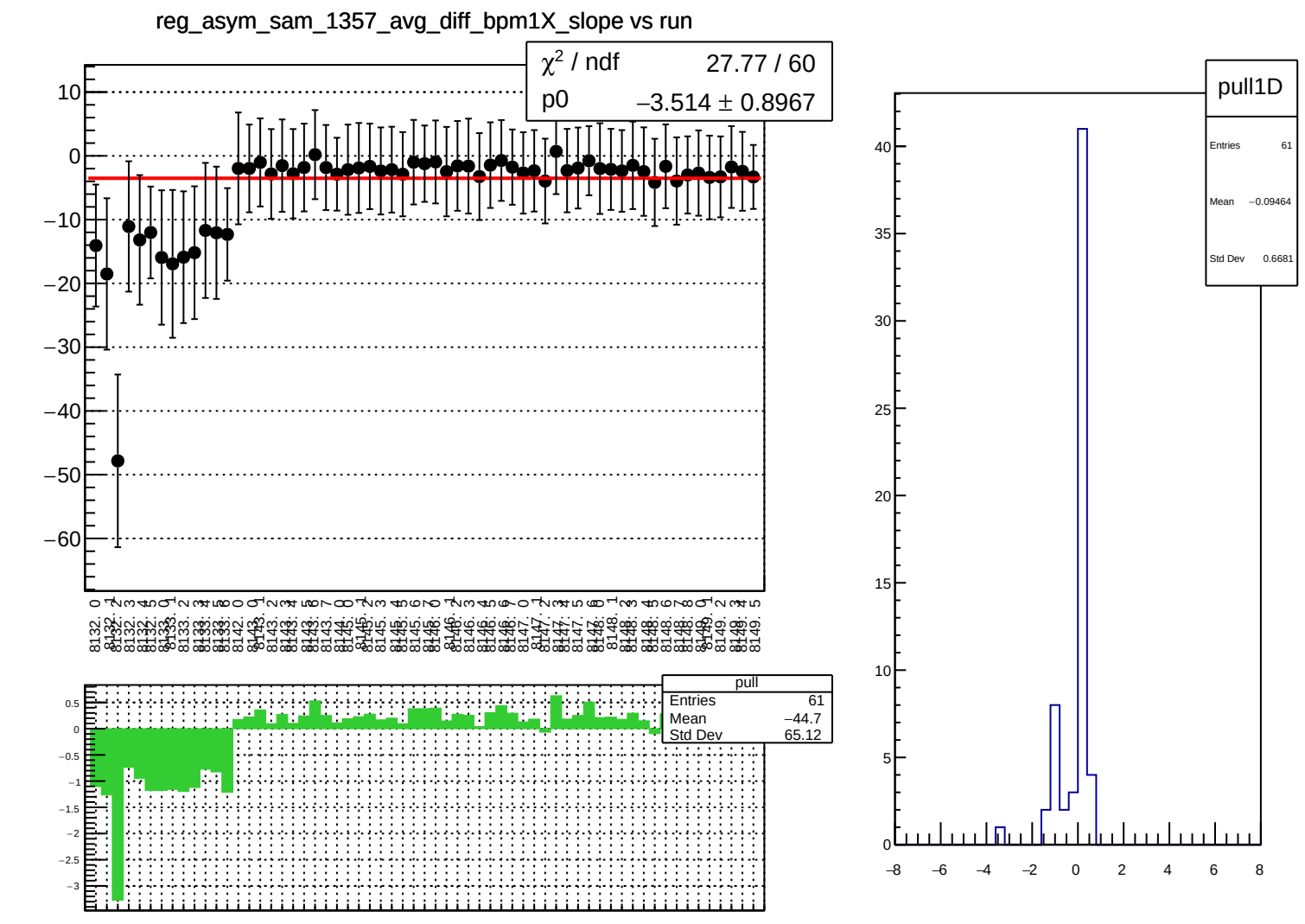

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.03 / 60
p0 −7.418 ± 0.1903
pull
Entries 61
Mean −240.3
Std Dev 268.9

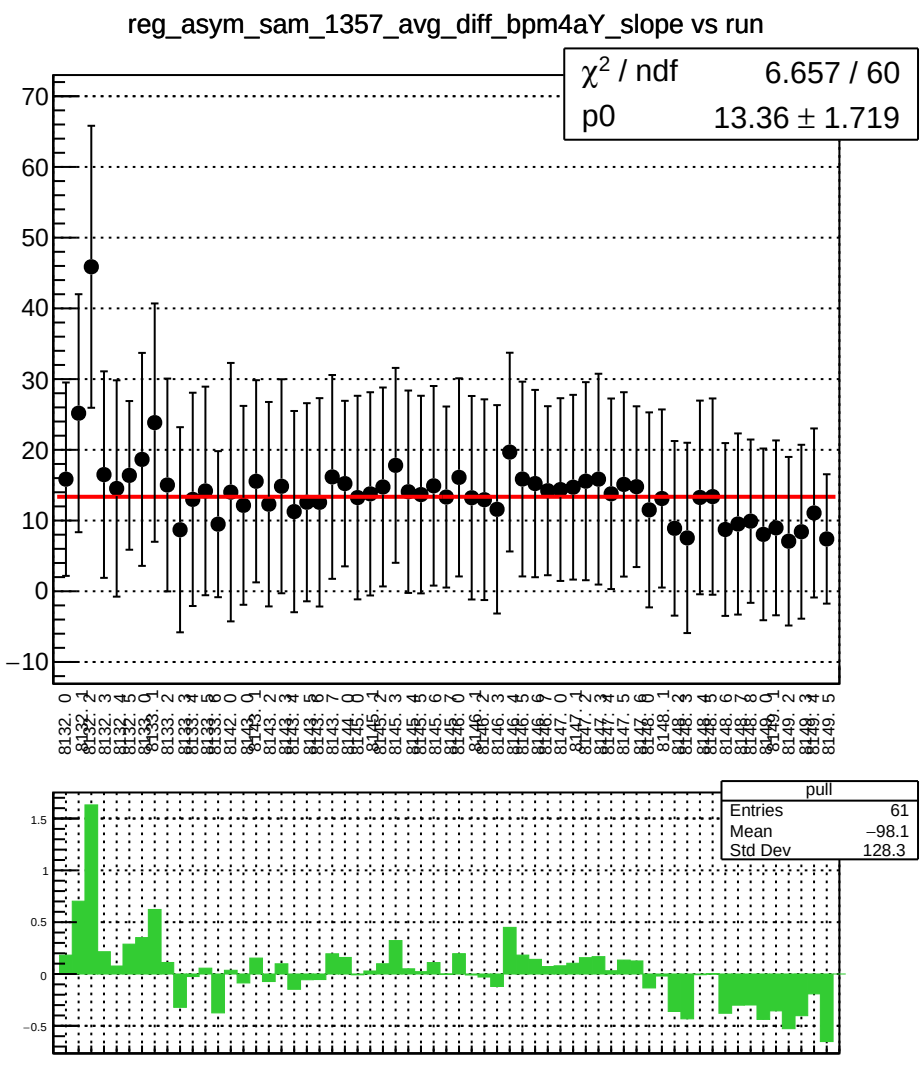

pull1D
Entries 61
Mean 0.05958
Std Dev 1.093

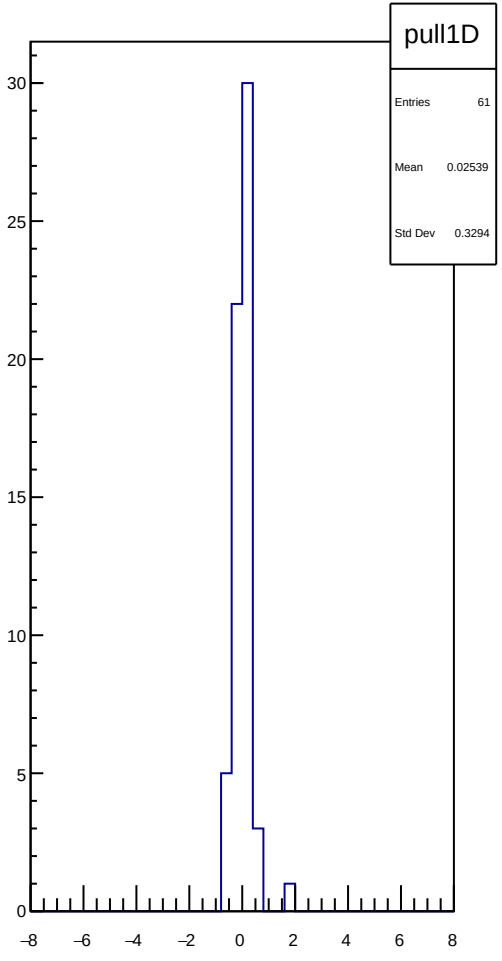

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 212 / 60
p0 5.358 ± 0.3843
pull
Entries 61
Mean 151.6
Std Dev 136

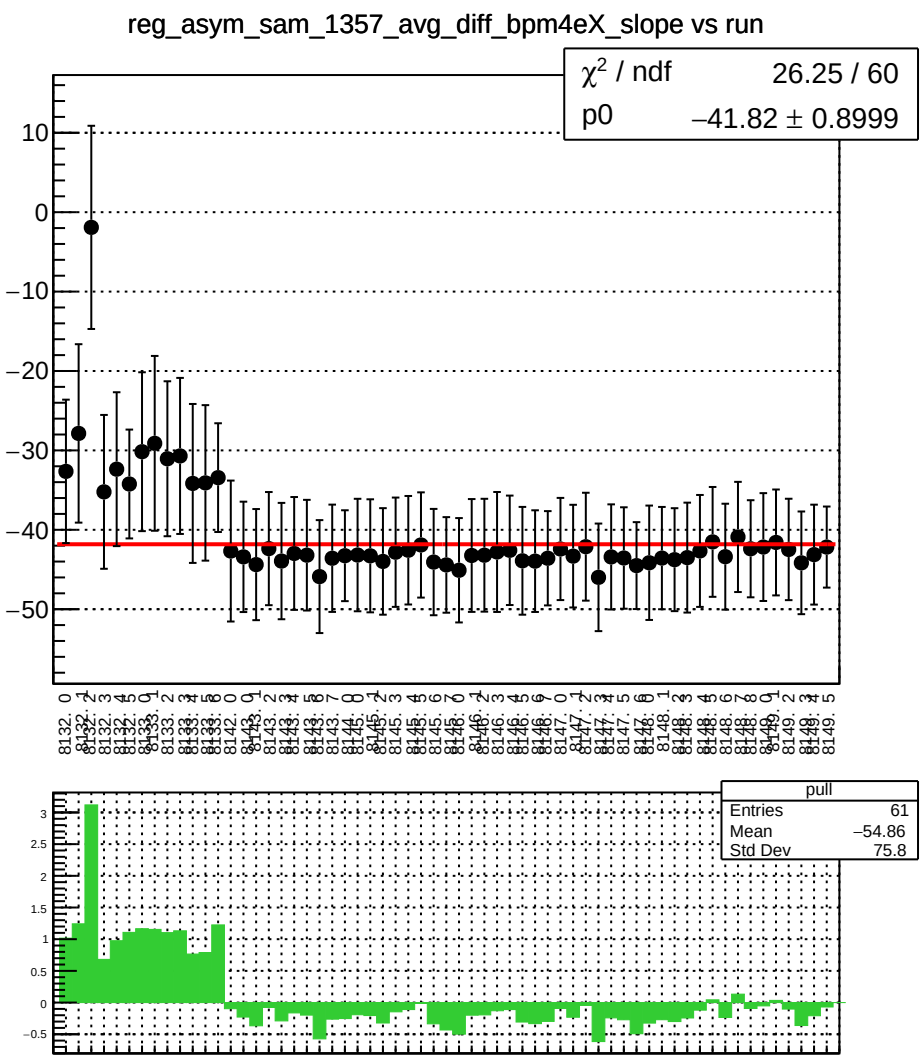

pull1D
Entries 61
Mean 0.1021
Std Dev 1.862

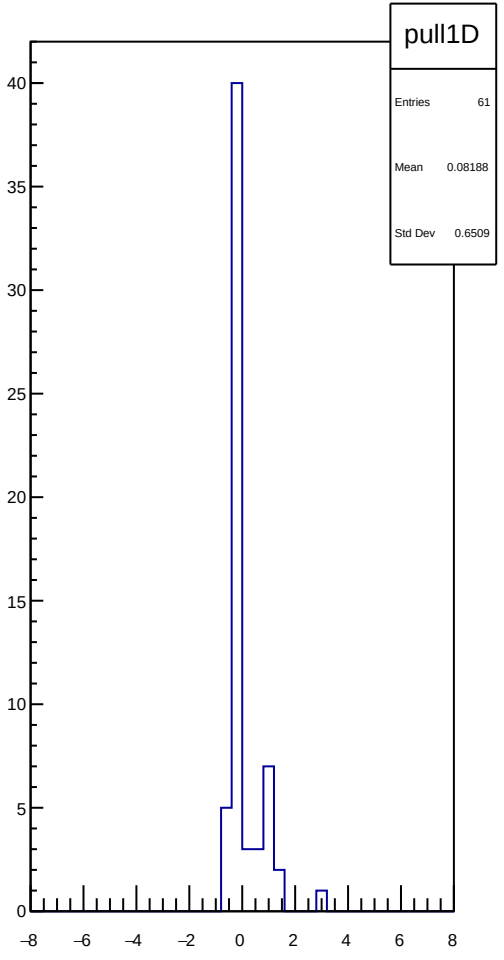

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 469.2 / 60
p0 −0.4188 ± 0.01587
pull
Entries 61
Mean 172.5
Std Dev 148
pull1D
Entries 61
Mean 0.2234
Std Dev 2.764

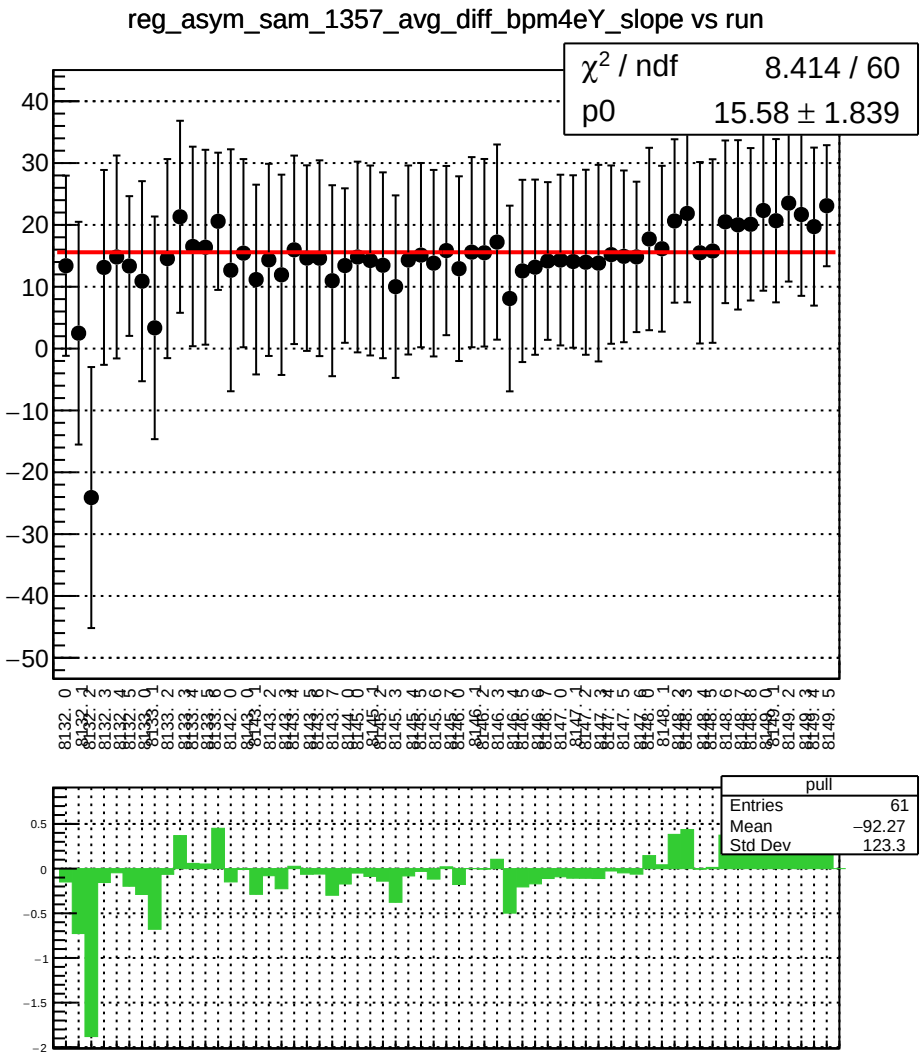

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 27.77 / 60
p0 −3.514 ± 0.8967
pull
Entries 61
Mean −44.7
Std Dev 65.12
pull1D
Entries 61
Mean −0.09464
Std Dev 0.6681

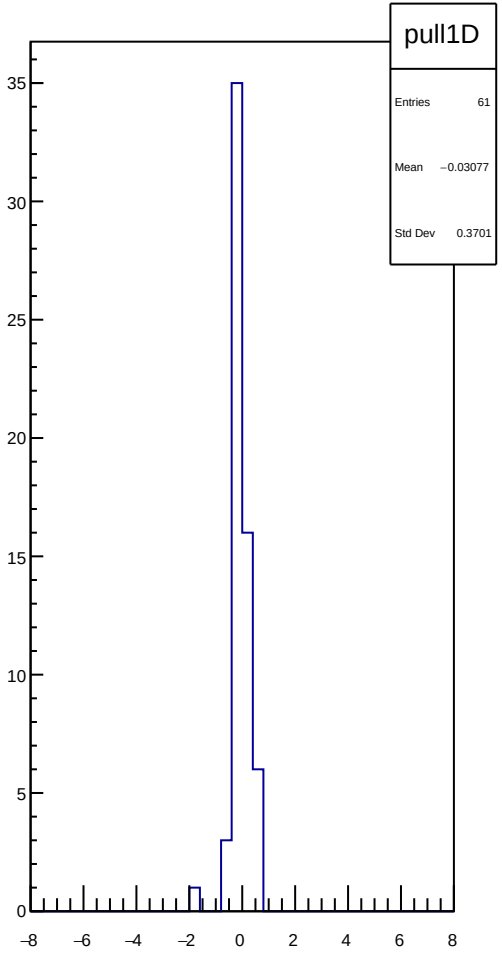

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.657 / 60
p0 13.36 ± 1.719
pull
Entries 61
Mean −98.1
Std Dev 128.3

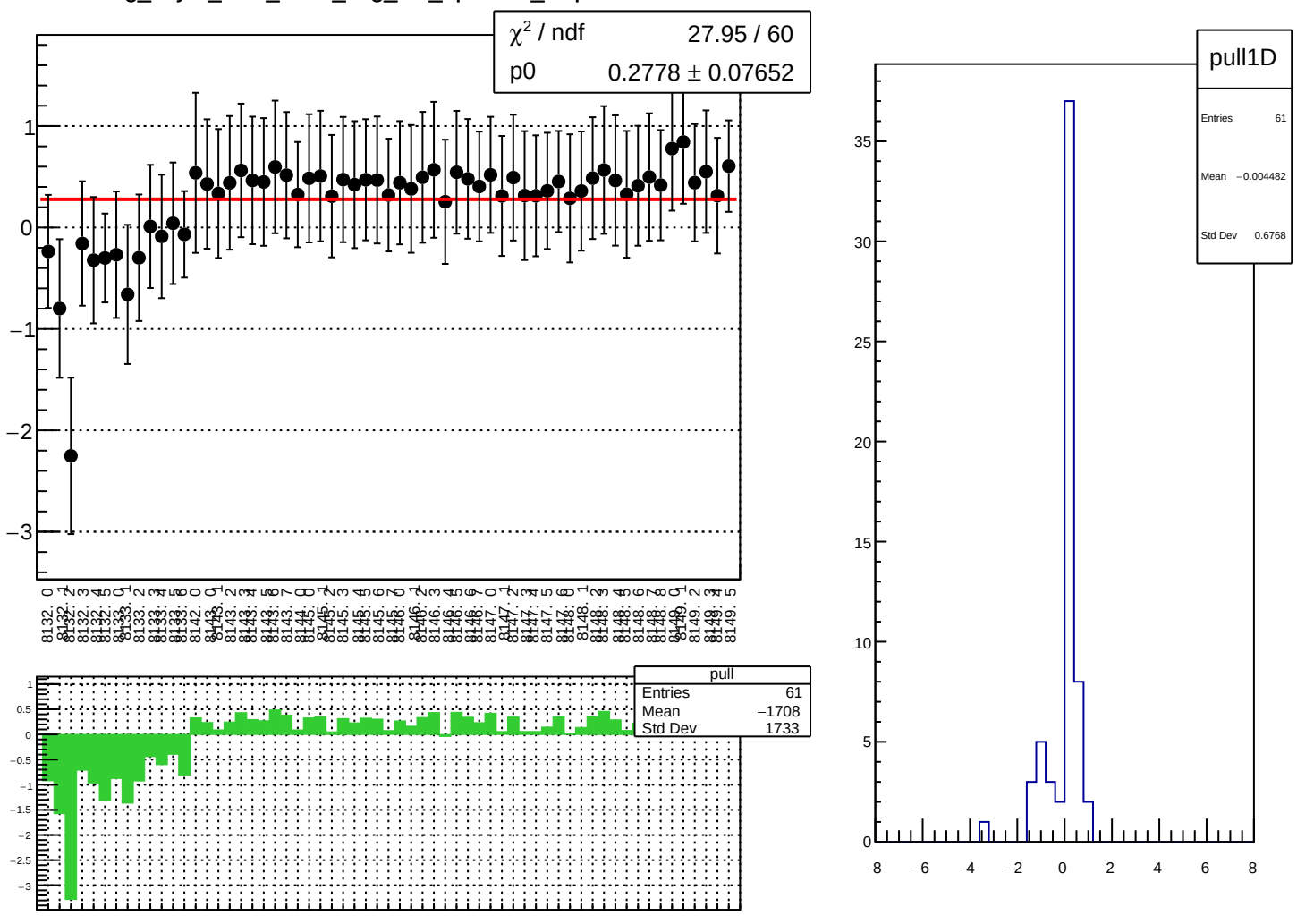

pull1D
Entries 61
Mean 0.02539
Std Dev 0.3294

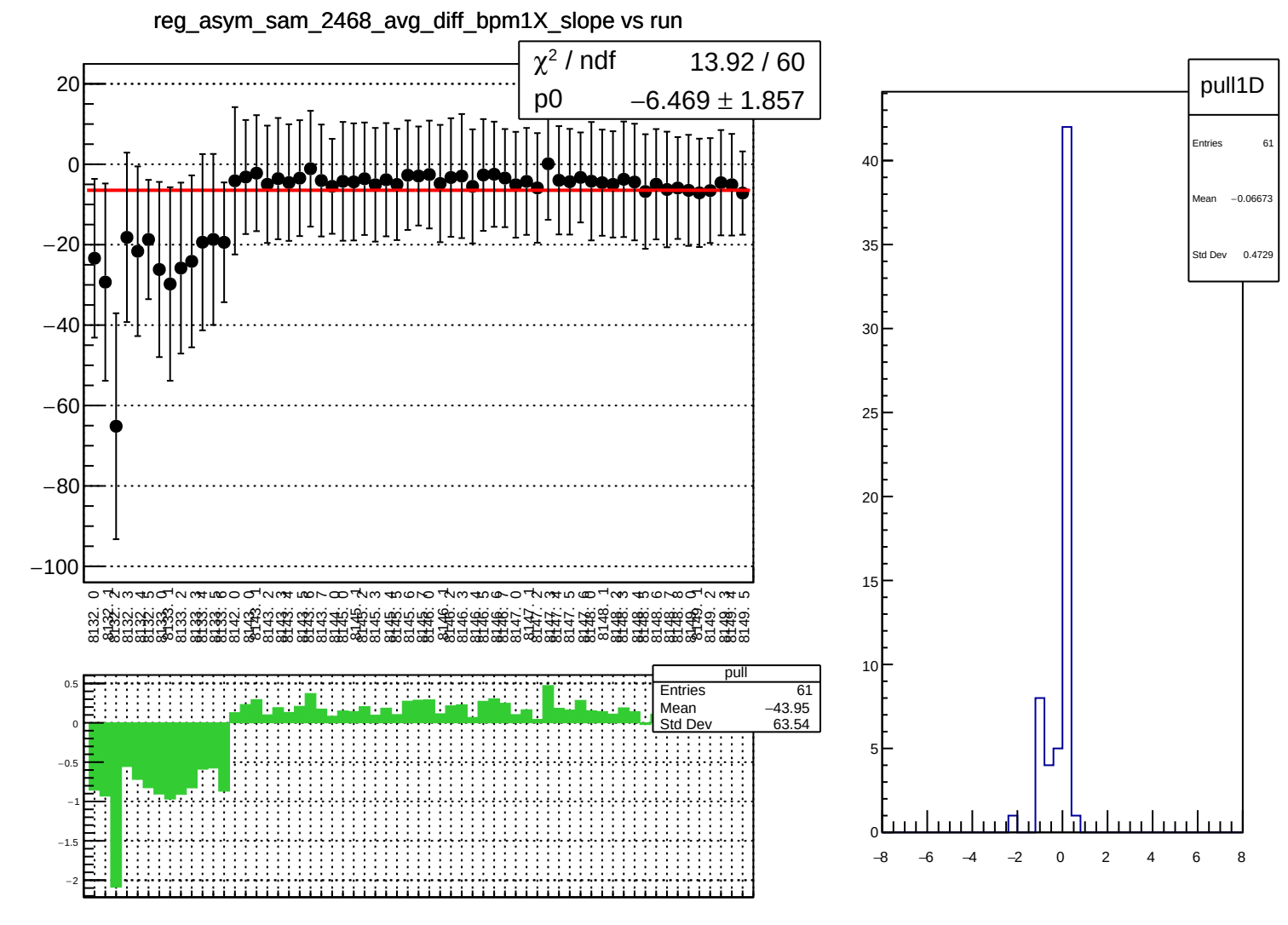

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.25 / 60
p0 −41.82 ± 0.8999
pull
Entries 61
Mean −54.86
Std Dev 75.8

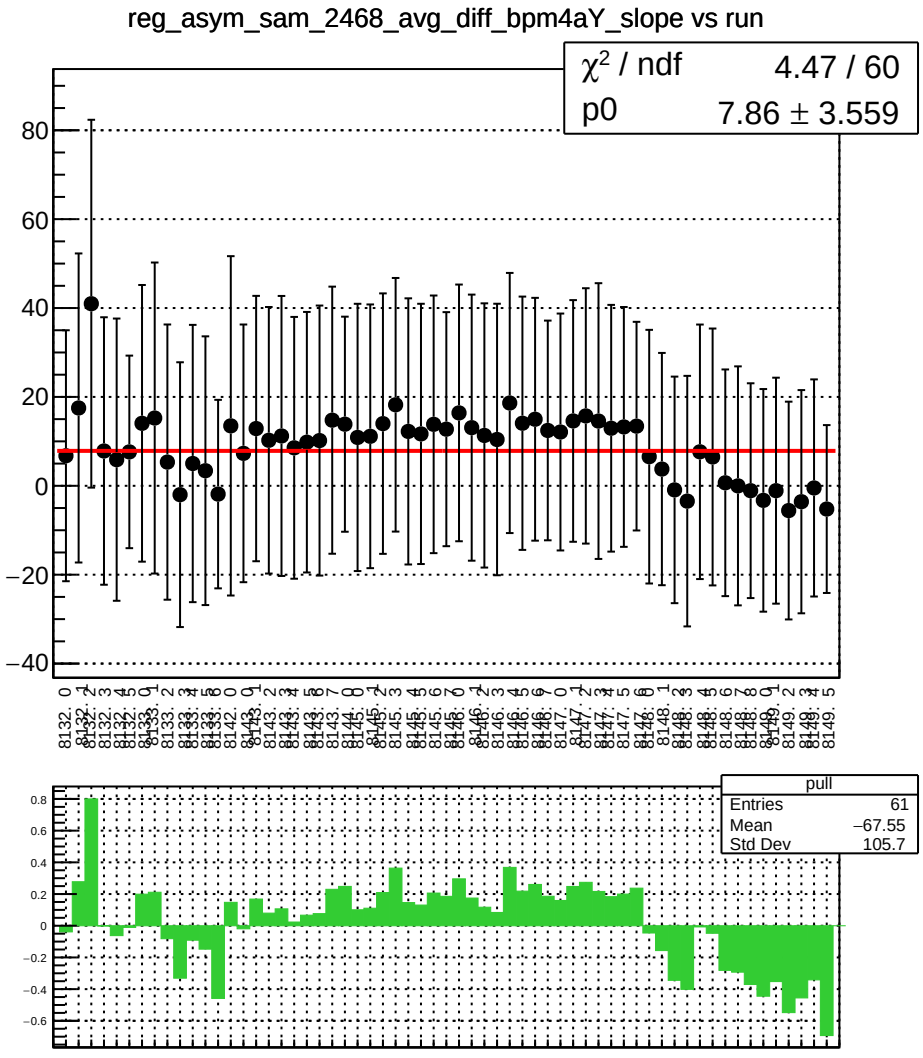

pull1D
Entries 61
Mean 0.08188
Std Dev 0.6509

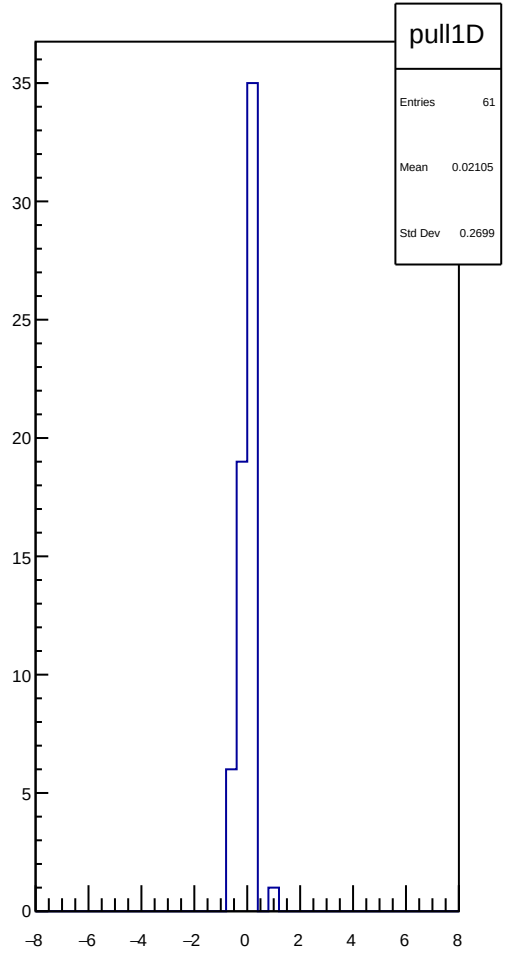

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.414 / 60
p0 15.58 ± 1.839
pull
Entries 61
Mean −92.27
Std Dev 123.3

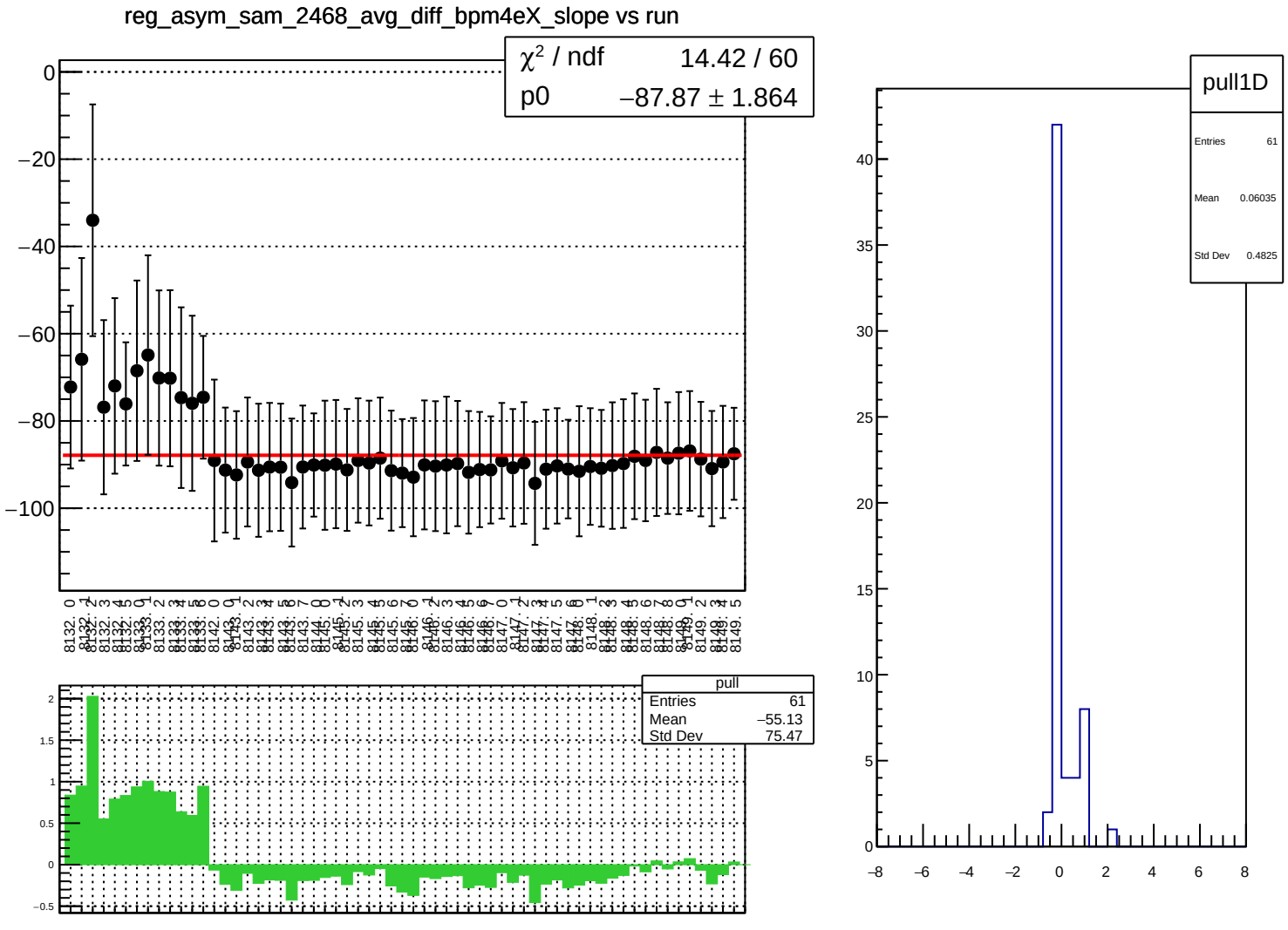

pull1D
Entries 61
Mean −0.03077
Std Dev 0.3701

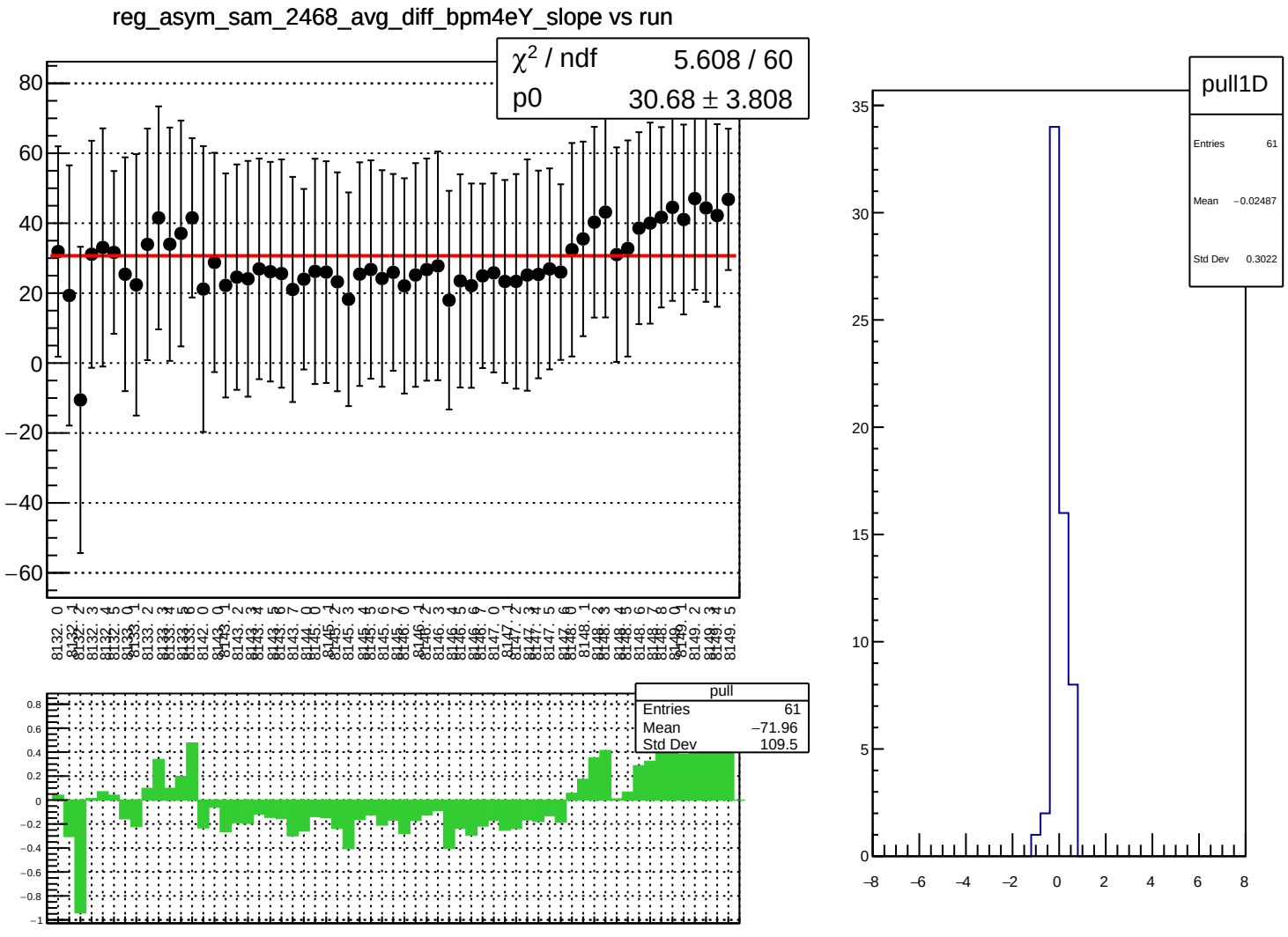

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 27.95 / 60
p0 0.2778 ± 0.07652
pull
Entries 61
Mean −1708
Std Dev 1733
pull1D
Entries 61
Mean −0.004482
Std Dev 0.6768

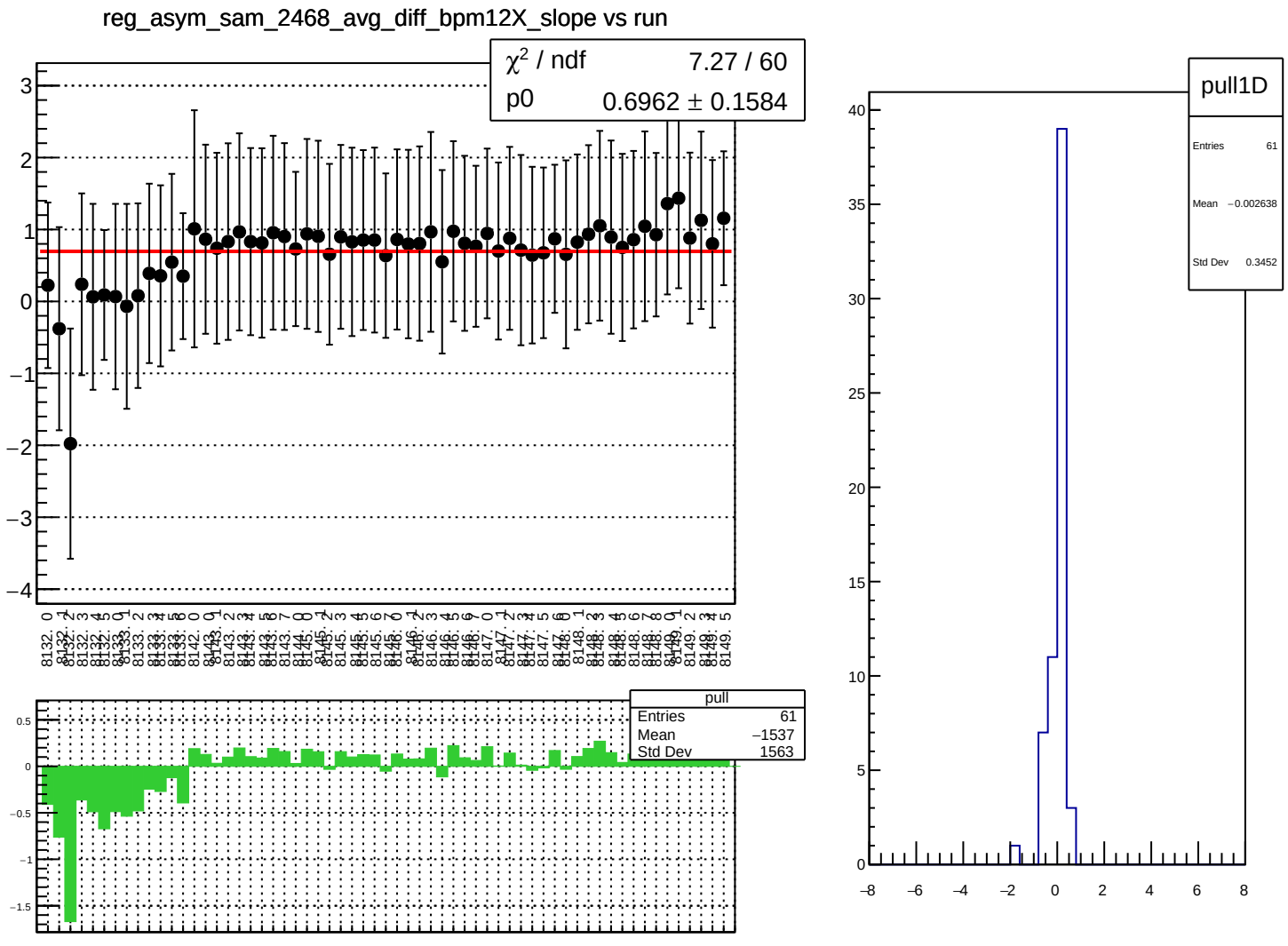

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 13.92 / 60
p0 −6.469 ± 1.857
pull
Entries 61
Mean −43.95
Std Dev 63.54
pull1D
Entries 61
Mean −0.06673
Std Dev 0.4729

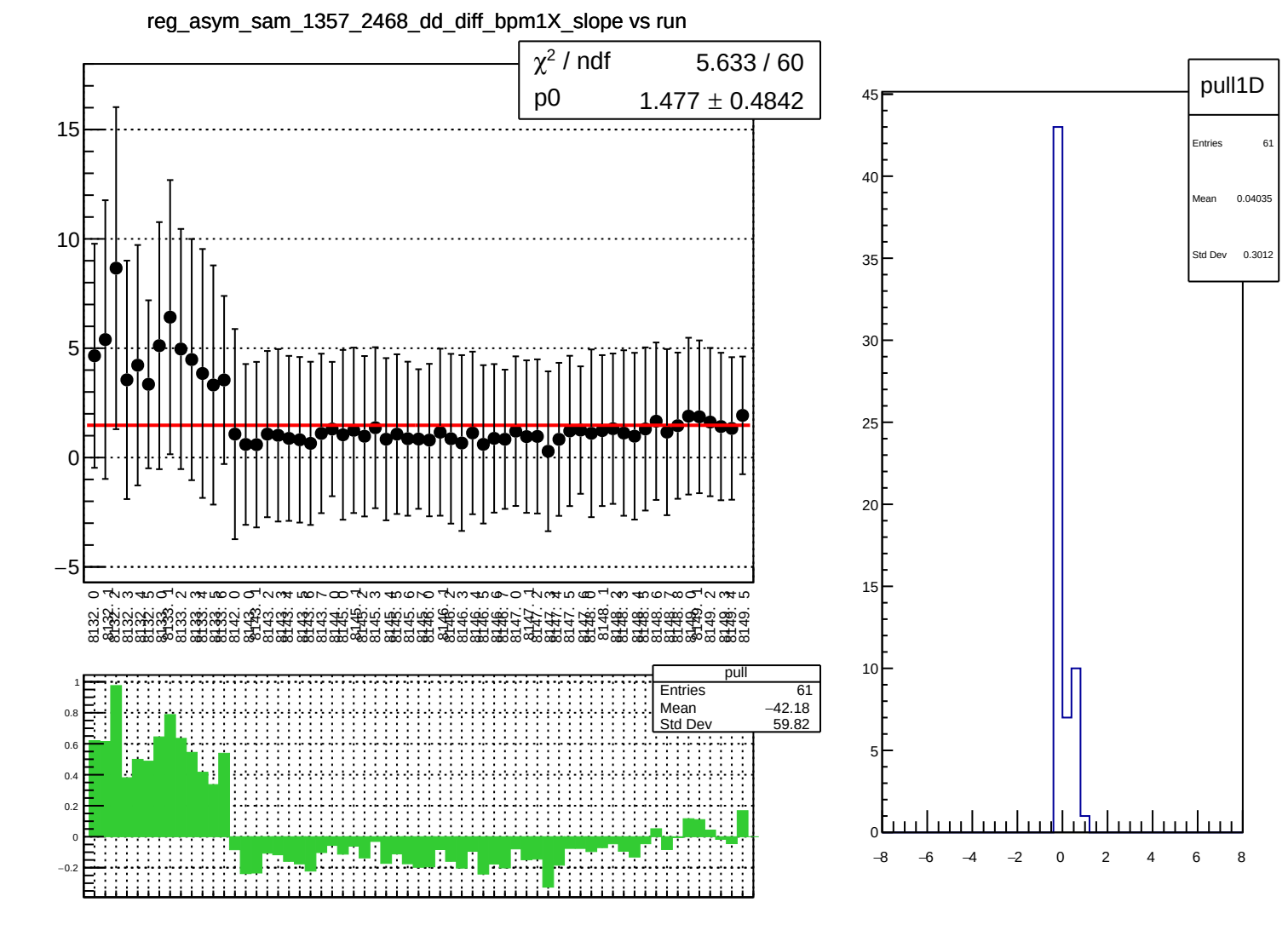

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.47 / 60
p0 7.86 ± 3.559
pull
Entries 61
Mean −67.55
Std Dev 105.7

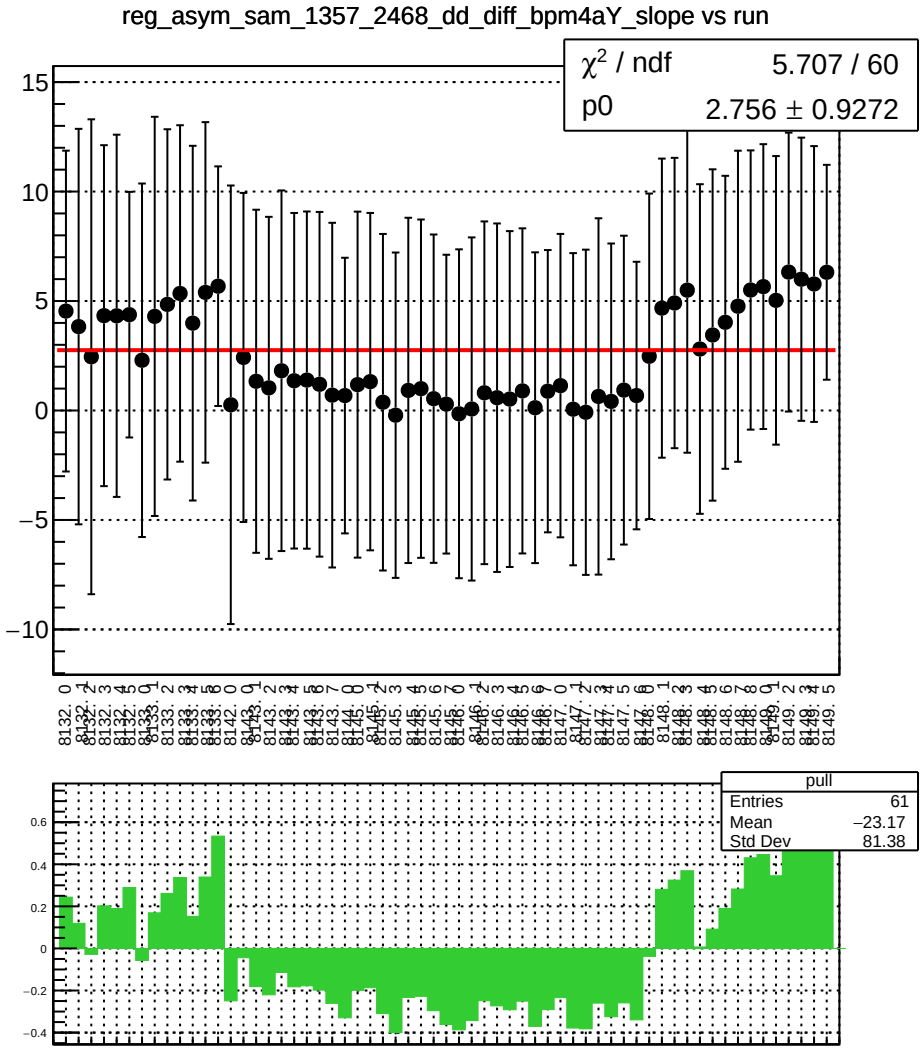

pull1D
Entries 61
Mean 0.02105
Std Dev 0.2699

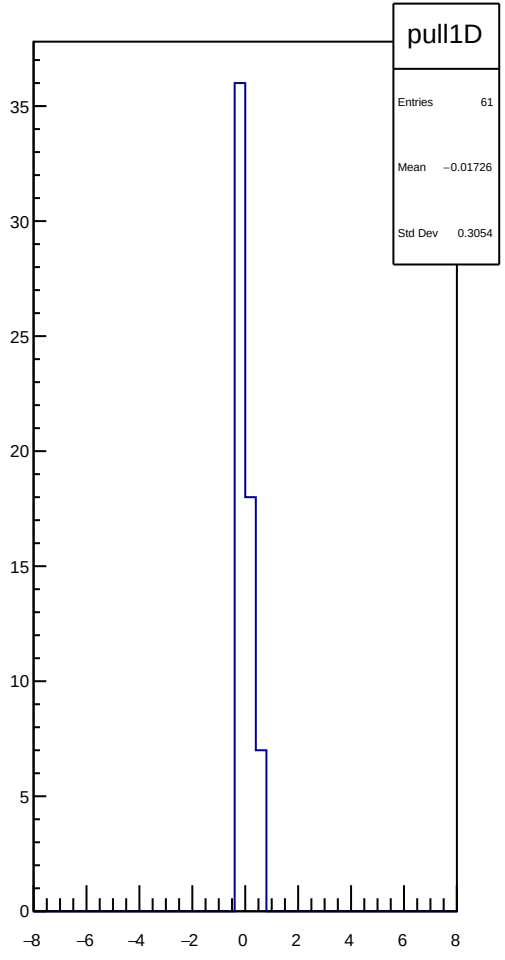

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.42 / 60
p0 −87.87 ± 1.864
pull
Entries 61
Mean −55.13
Std Dev 75.47
pull1D
Entries 61
Mean 0.06035
Std Dev 0.4825

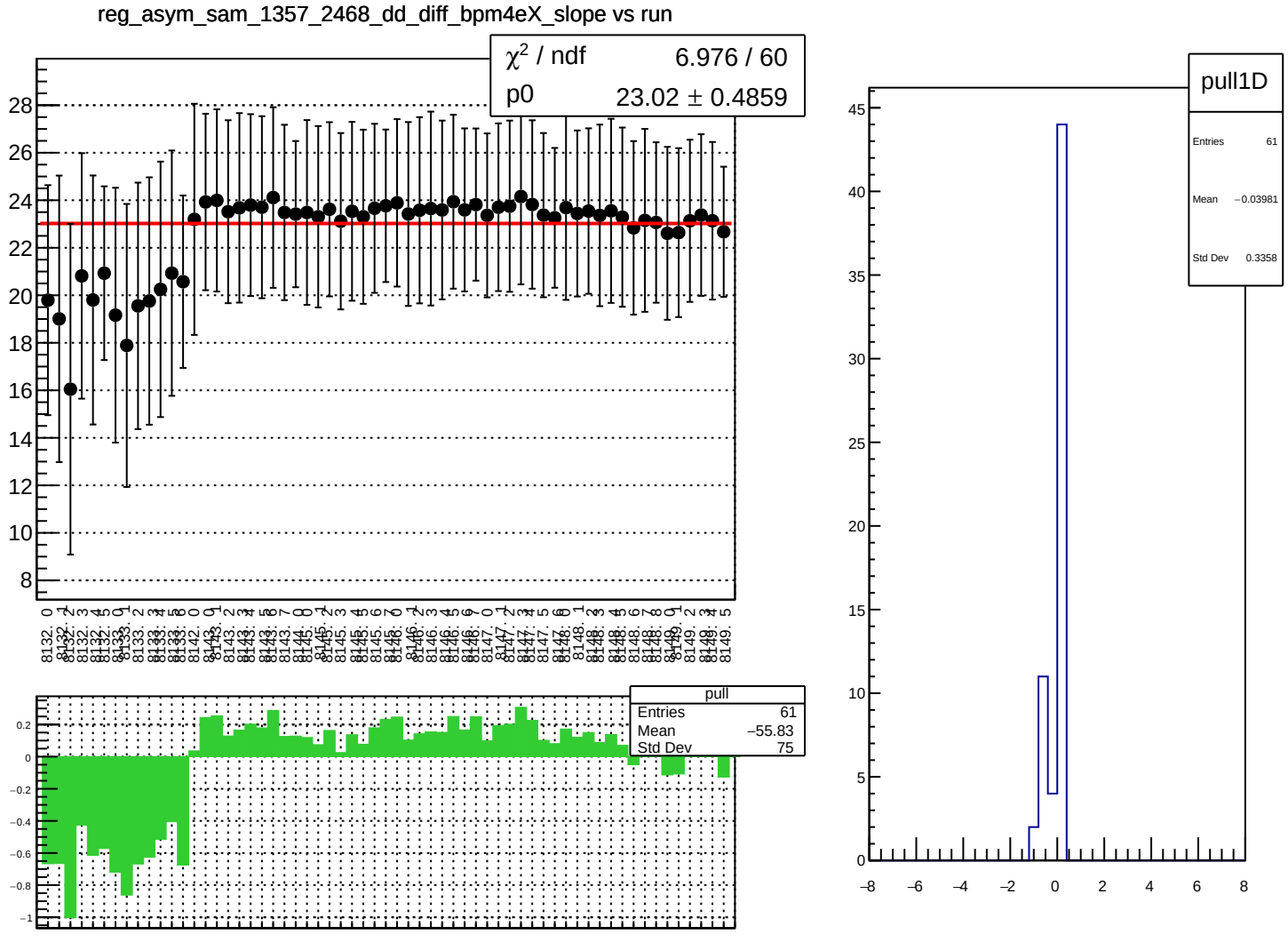

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.608 / 60
p0 30.68 ± 3.808
pull
Entries 61
Mean −71.96
Std Dev 109.5
pull1D
Entries 61
Mean −0.02487
Std Dev 0.3022

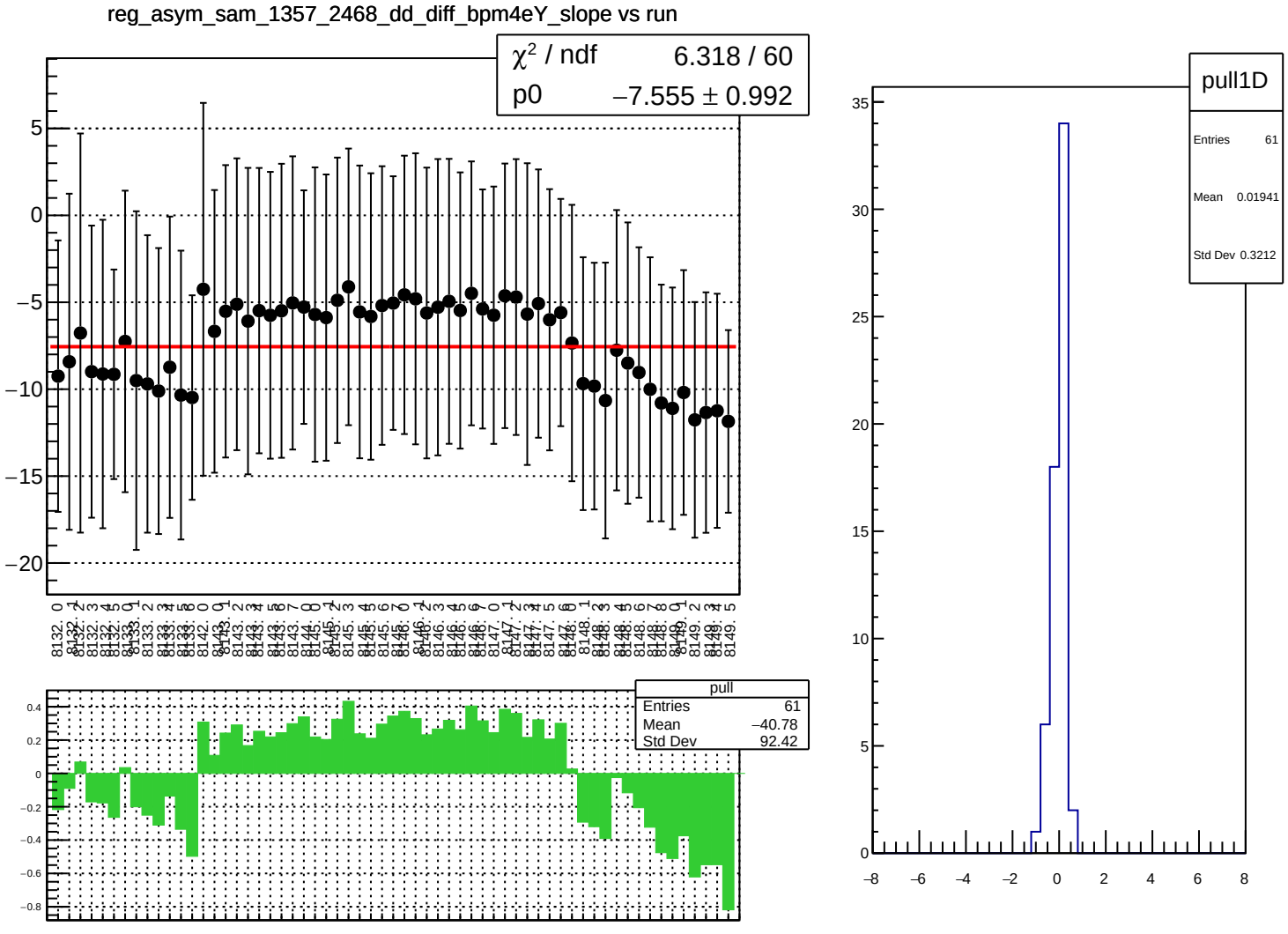

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 7.27 / 60
p0 0.6962 ± 0.1584
pull
Entries 61
Mean −1537
Std Dev 1563
pull1D
Entries 61
Mean −0.002638
Std Dev 0.3452

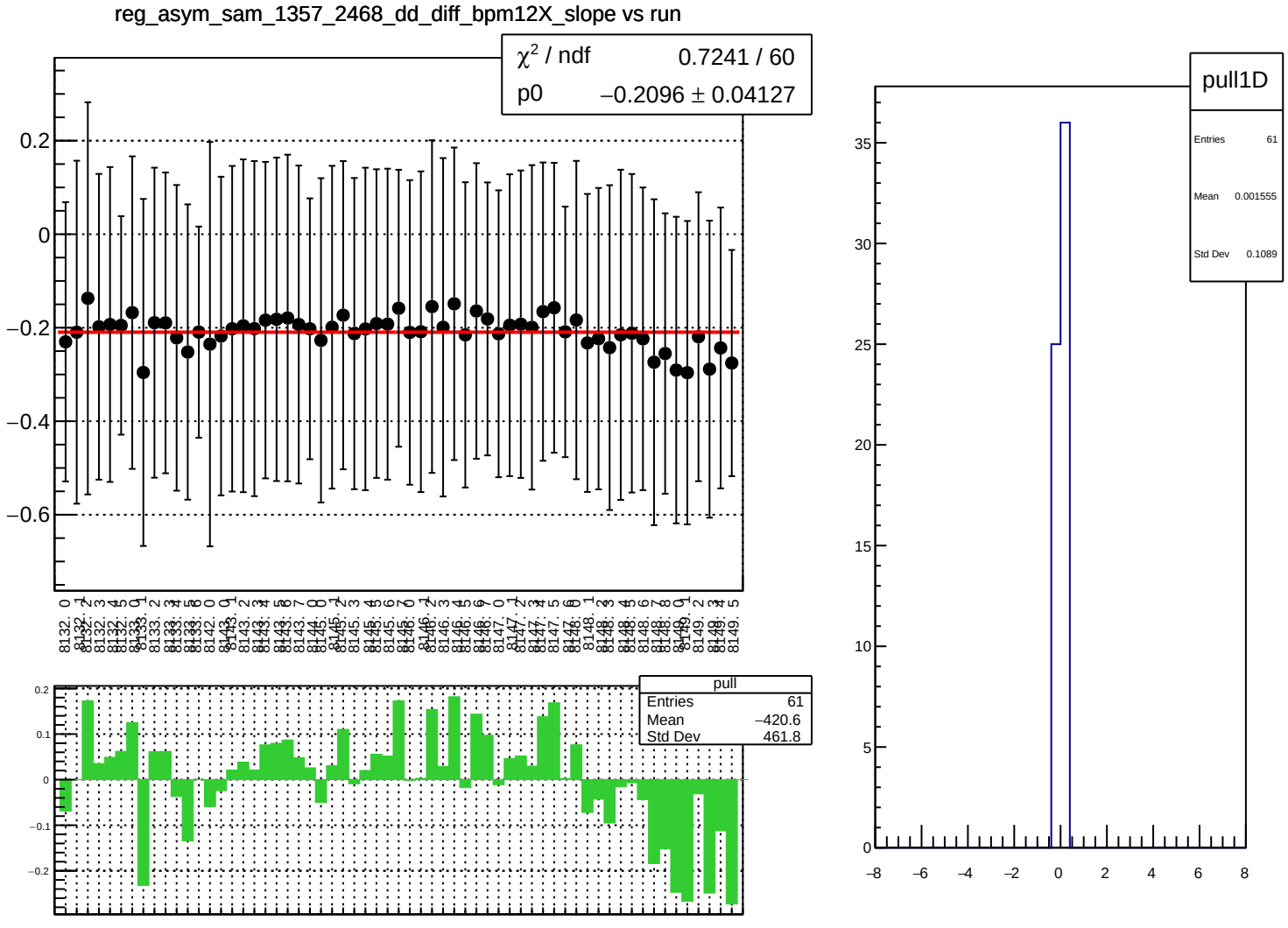

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 5.633 / 60
p0 1.477 ± 0.4842
pull
Entries 61
Mean −42.18
Std Dev 59.82
pull1D
Entries 61
Mean 0.04035
Std Dev 0.3012

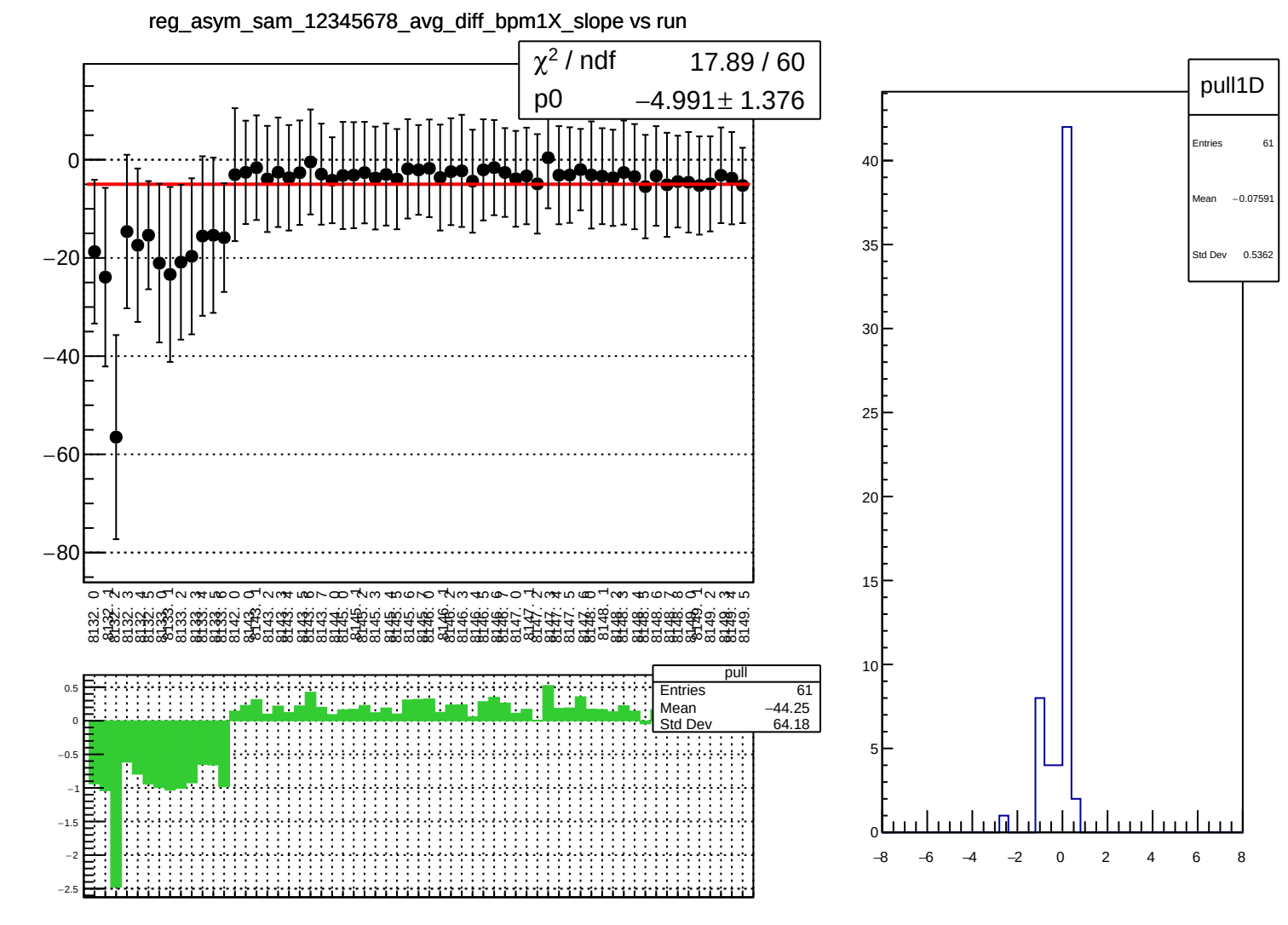

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.707 / 60
p0 2.756 ± 0.9272
pull
Entries 61
Mean −23.17
Std Dev 81.38

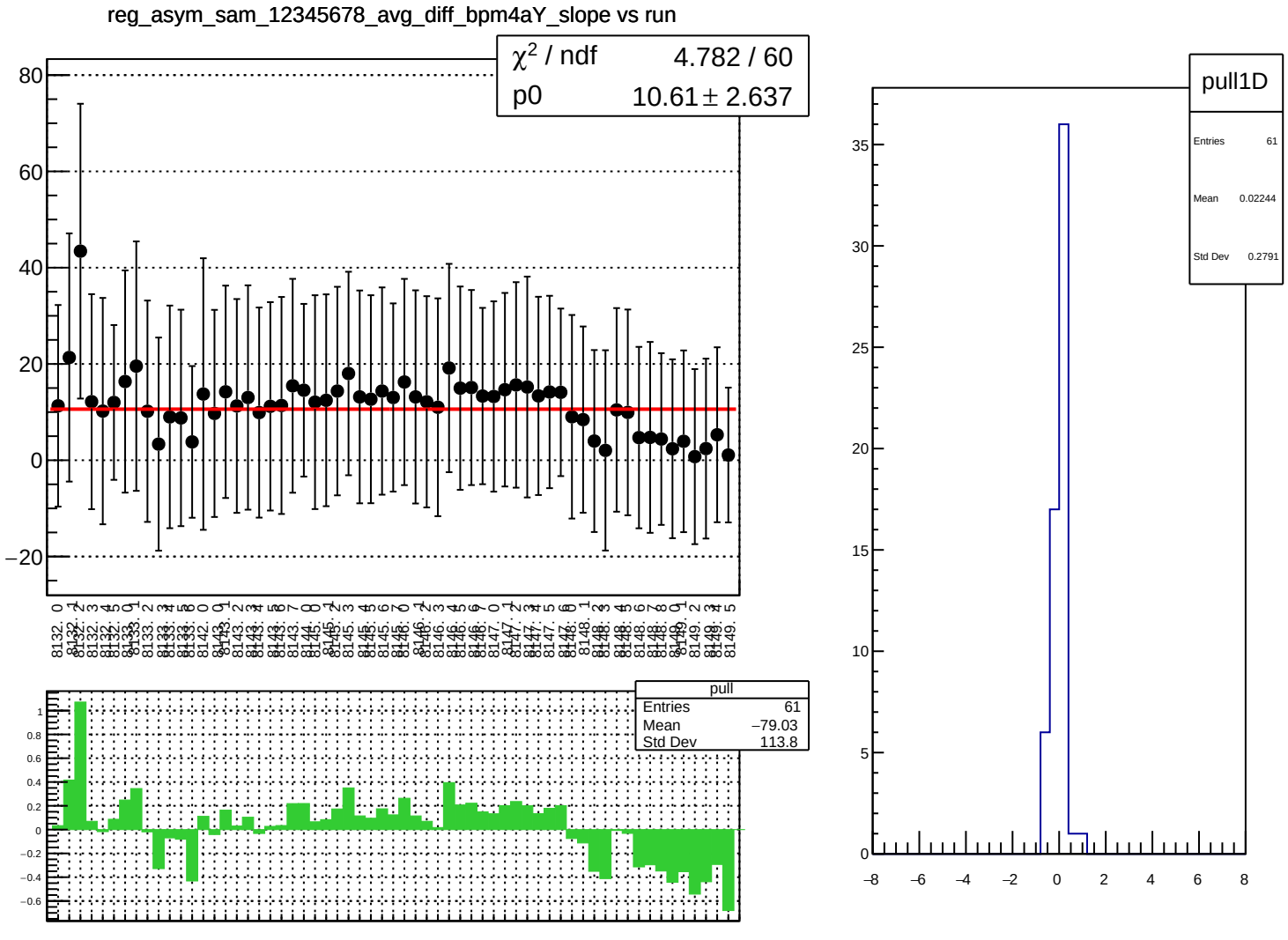

pull1D
Entries 61
Mean −0.01726
Std Dev 0.3054

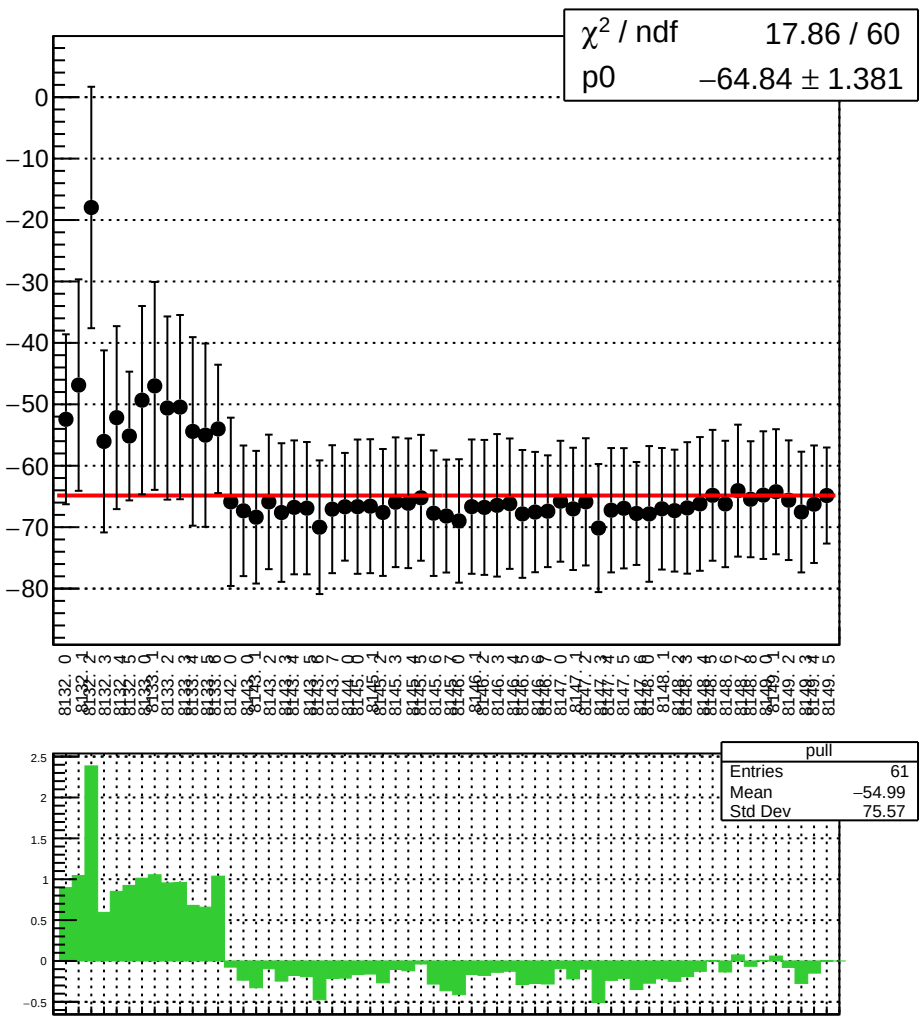

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.976 / 60
p0 23.02 ± 0.4859
pull
Entries 61
Mean −55.83
Std Dev 75
pull1D
Entries 61
Mean −0.03981
Std Dev 0.3358

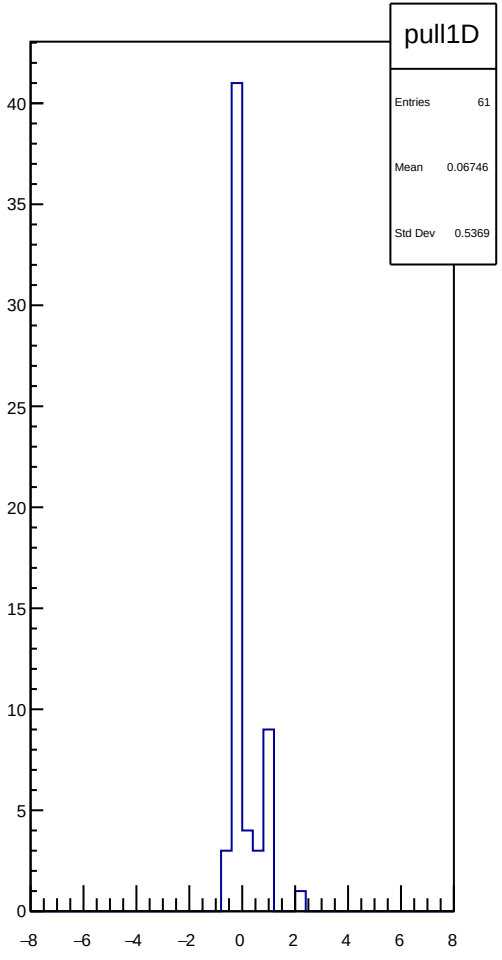

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.318 / 60
p0 −7.555 ± 0.992
pull
Entries 61
Mean −40.78
Std Dev 92.42
pull1D
Entries 61
Mean 0.01941
Std Dev 0.3212

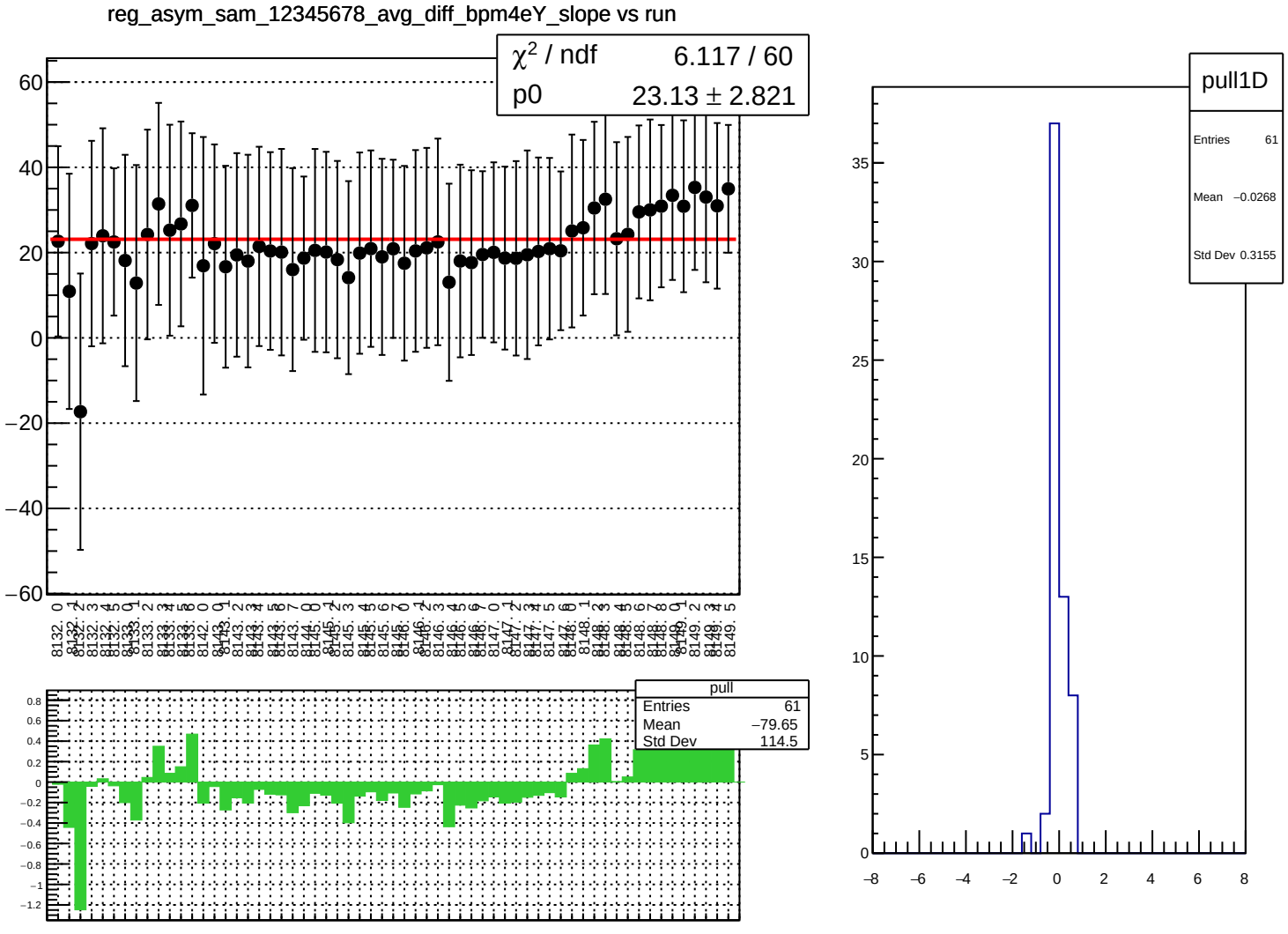

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7241 / 60
p0 −0.2096 ± 0.04127
pull
Entries 61
Mean −420.6
Std Dev 461.8
pull1D
Entries 61
Mean 0.001555
Std Dev 0.1089

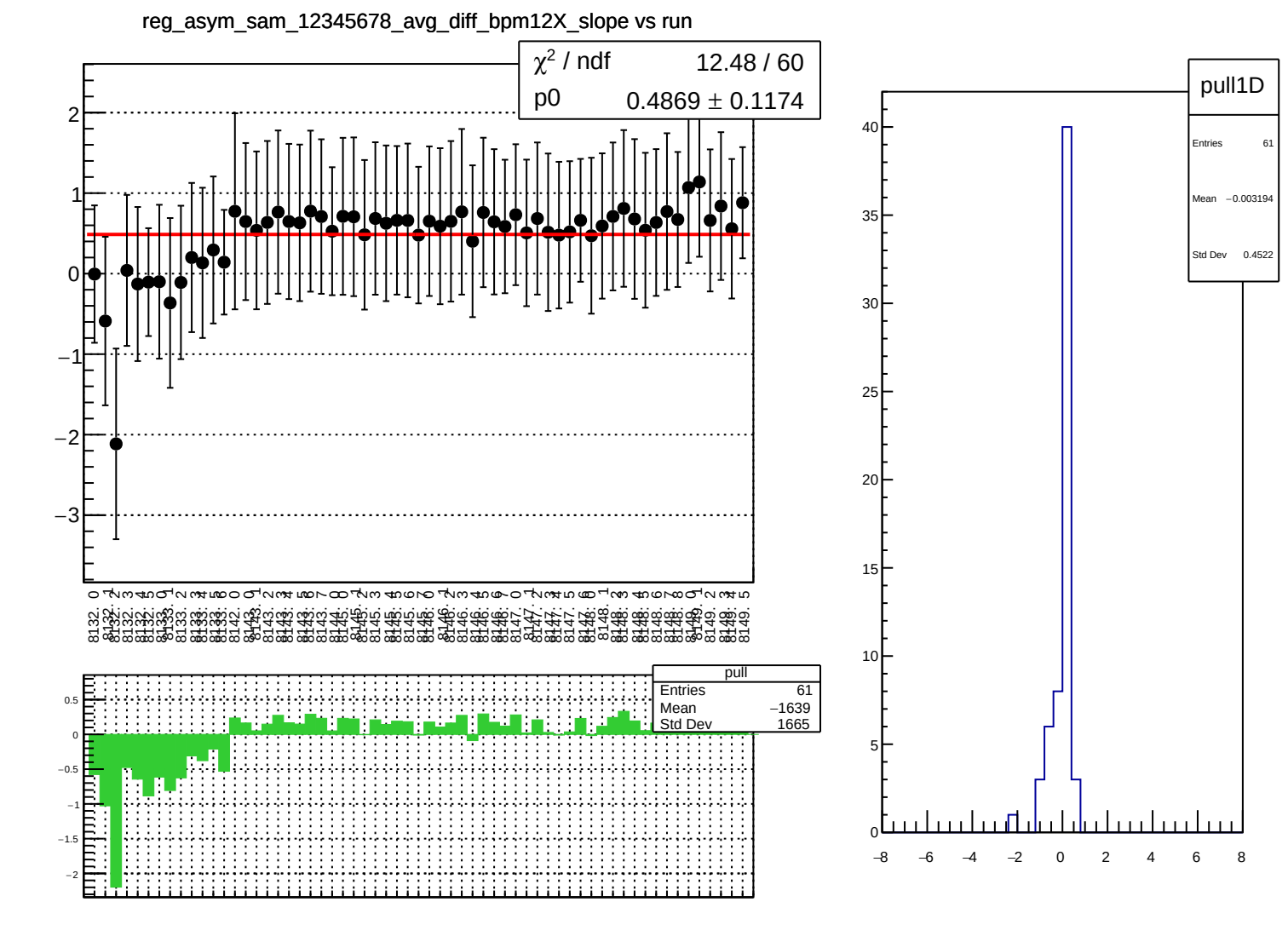

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 17.89 / 60
p0 −4.991 ± 1.376
pull
Entries 61
Mean −44.25
Std Dev 64.18
pull1D
Entries 61
Mean −0.07591
Std Dev 0.5362

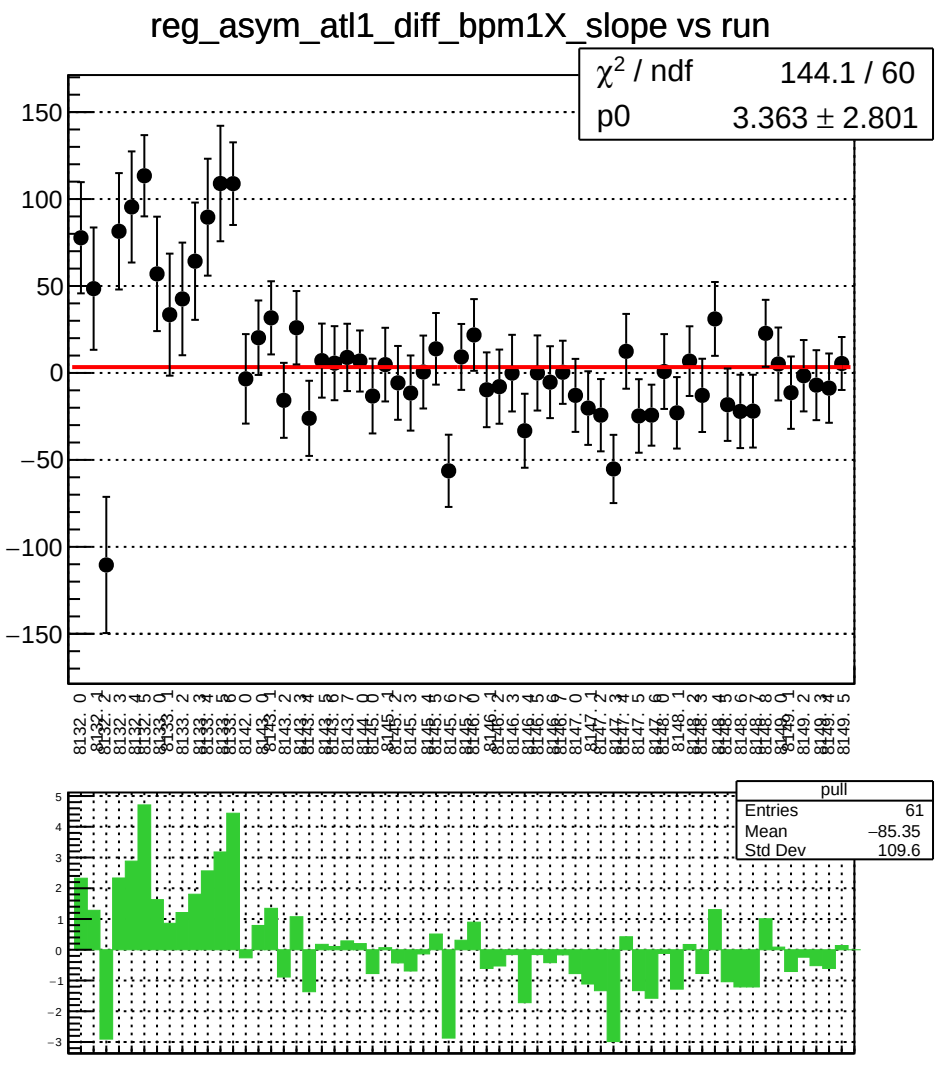

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.782 / 60
p0 10.61 ± 2.637
pull
Entries 61
Mean −79.03
Std Dev 113.8
pull1D
Entries 61
Mean 0.02244
Std Dev 0.2791

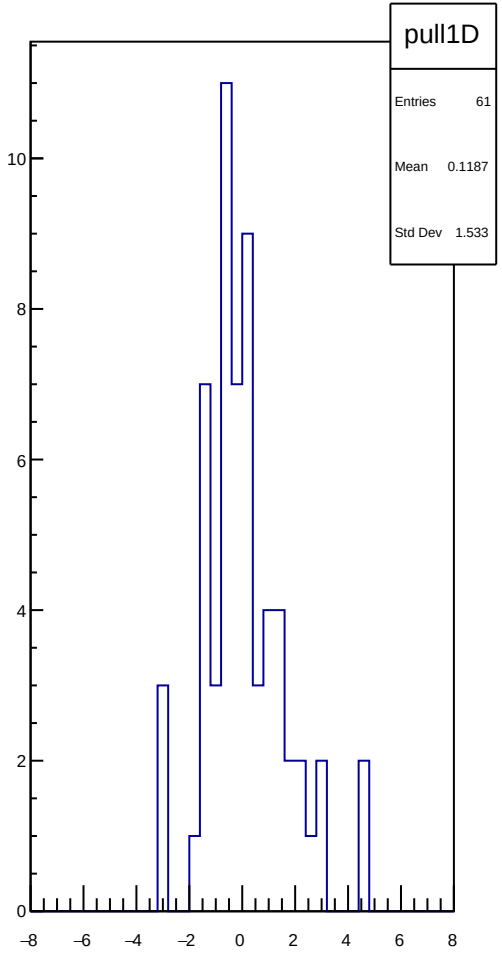

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.86 / 60
p0 −64.84 ± 1.381
pull
Entries 61
Mean −54.99
Std Dev 75.57

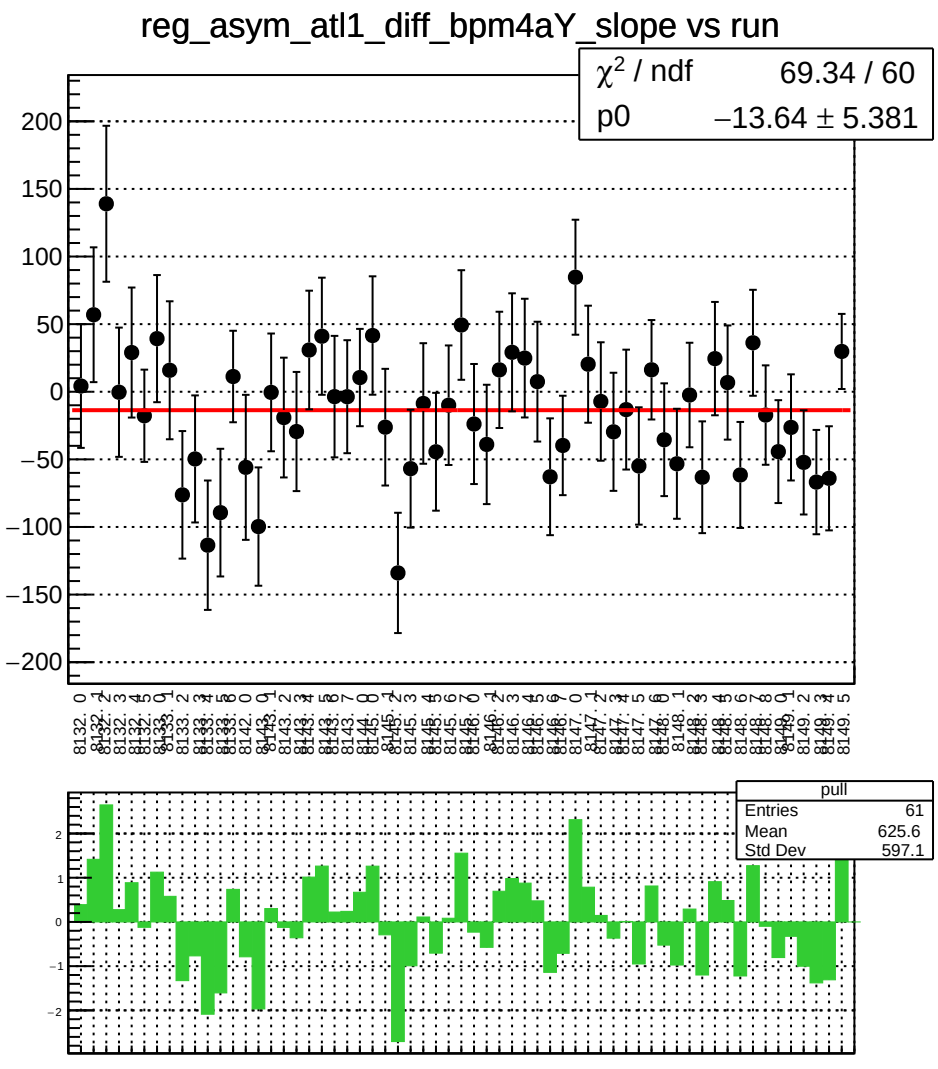

pull1D
Entries 61
Mean 0.06746
Std Dev 0.5369

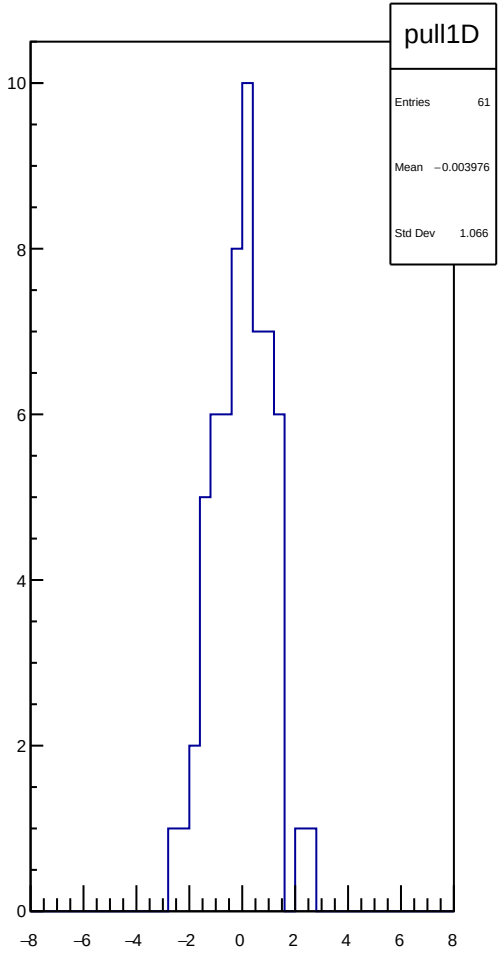

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.117 / 60
p0 23.13 ± 2.821
pull
Entries 61
Mean −79.65
Std Dev 114.5
pull1D
Entries 61
Mean −0.0268
Std Dev 0.3155

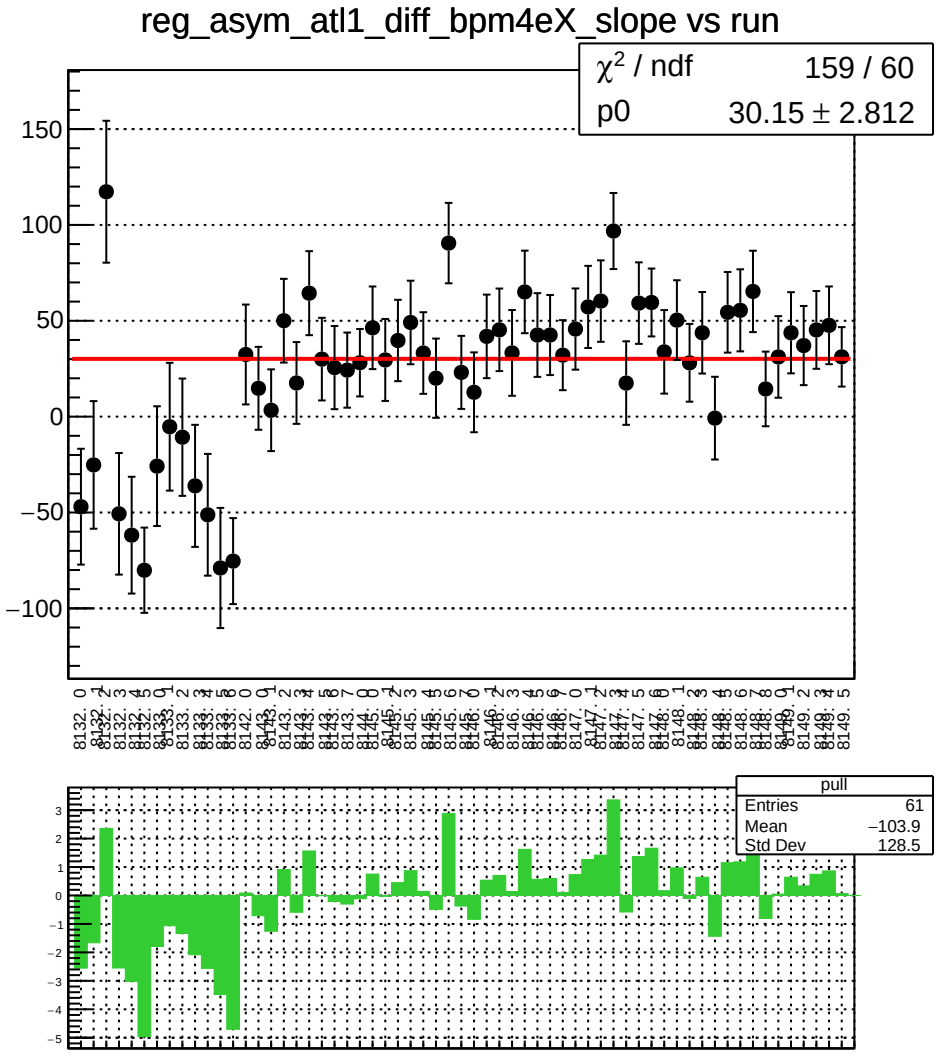

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 12.48 / 60
p0 0.4869 ± 0.1174
pull
Entries 61
Mean −1639
Std Dev 1665
pull1D
Entries 61
Mean −0.003194
Std Dev 0.4522

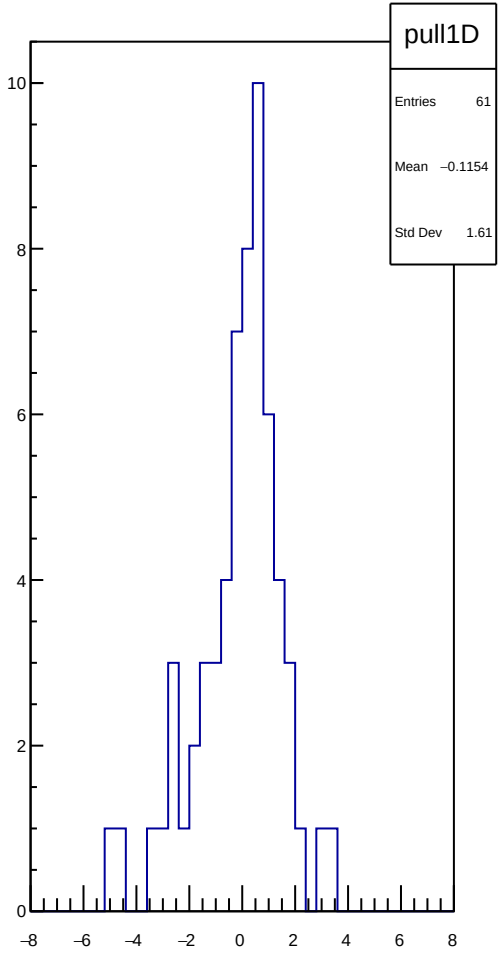

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 144.1 / 60
p0 3.363 ± 2.801
pull
Entries 61
Mean −85.35
Std Dev 109.6

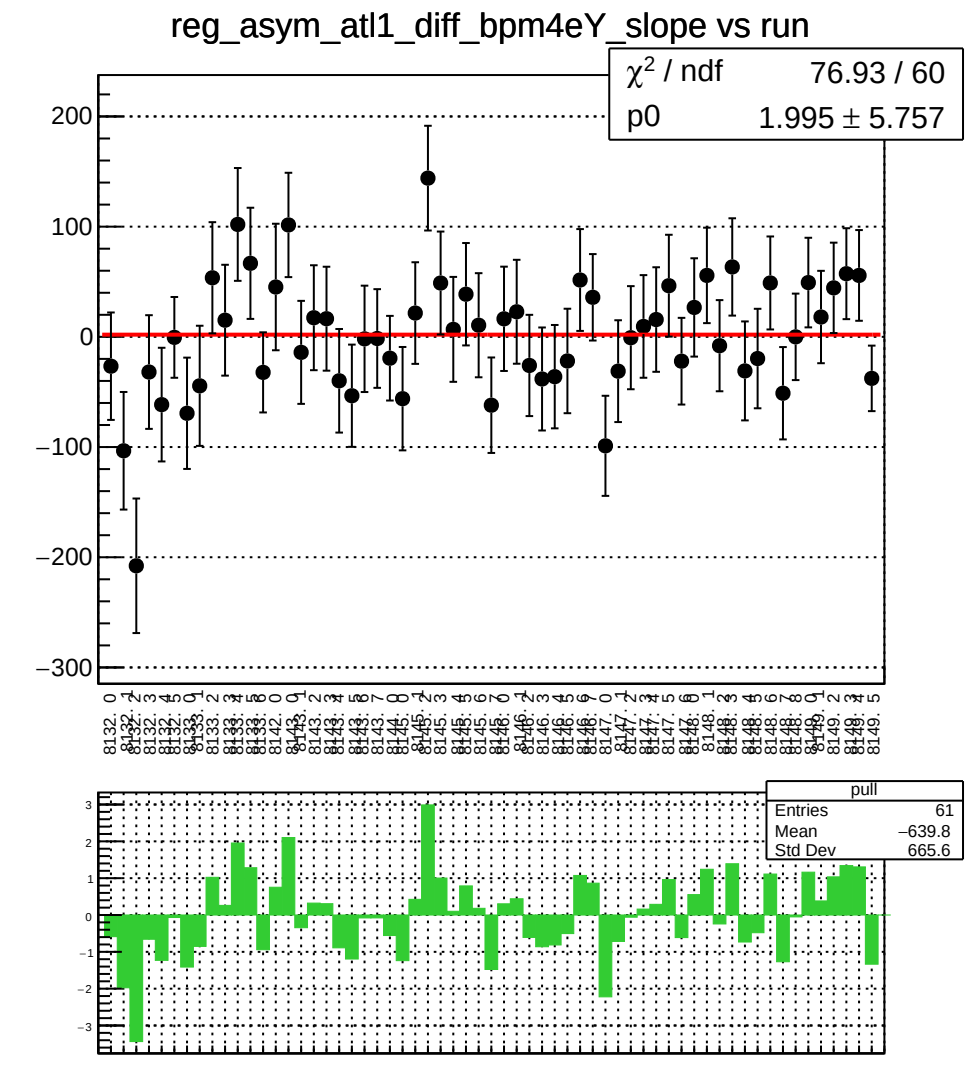

pull1D
Entries 61
Mean 0.1187
Std Dev 1.533

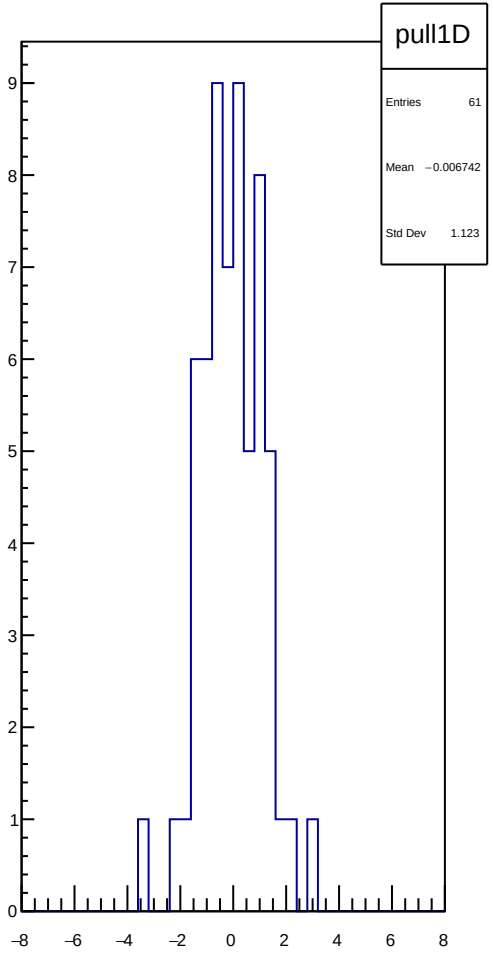

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 69.34 / 60
p0 −13.64 ± 5.381
pull
Entries 61
Mean 625.6
Std Dev 597.1

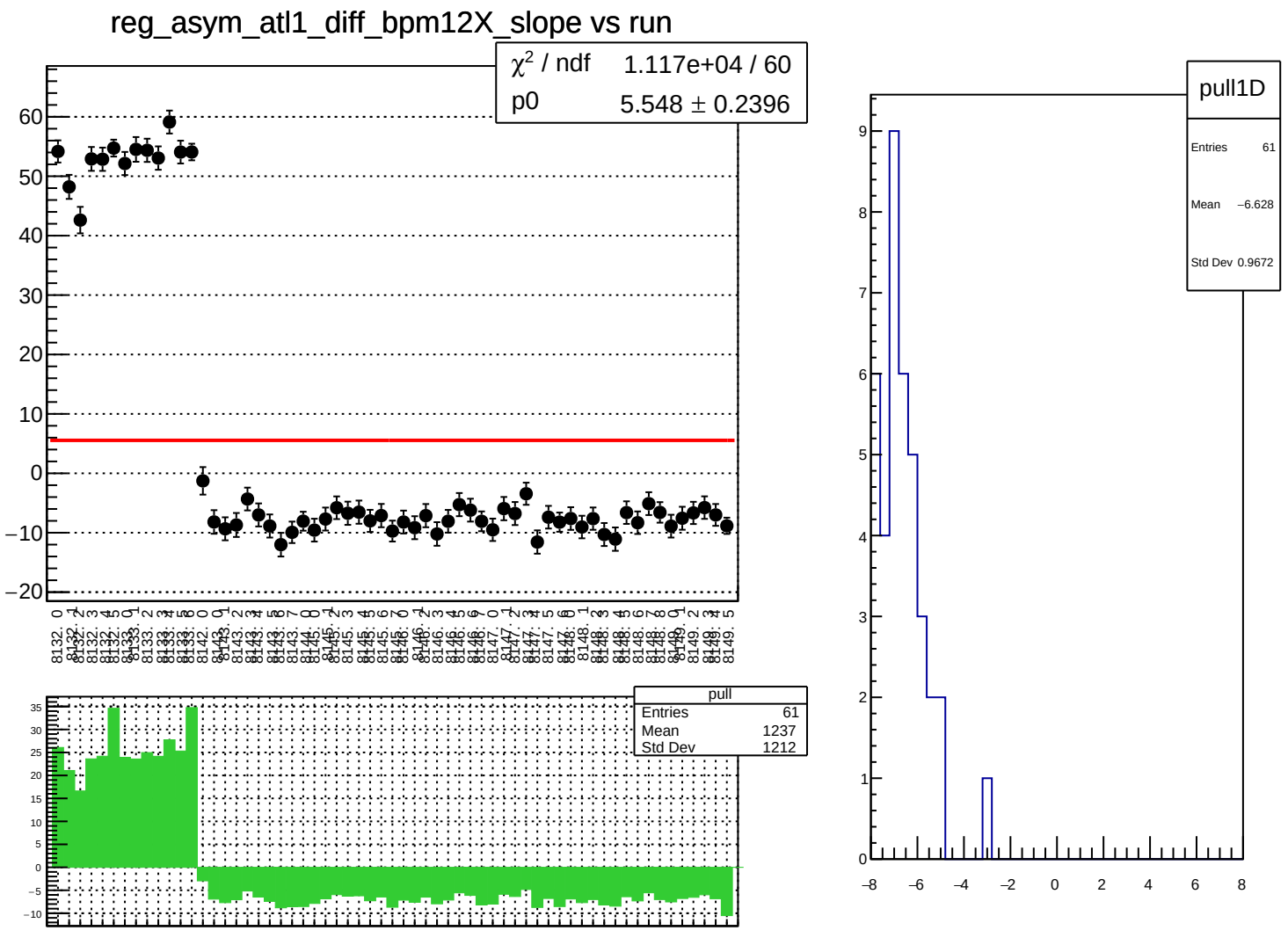

pull1D
Entries 61
Mean −0.003976
Std Dev 1.066

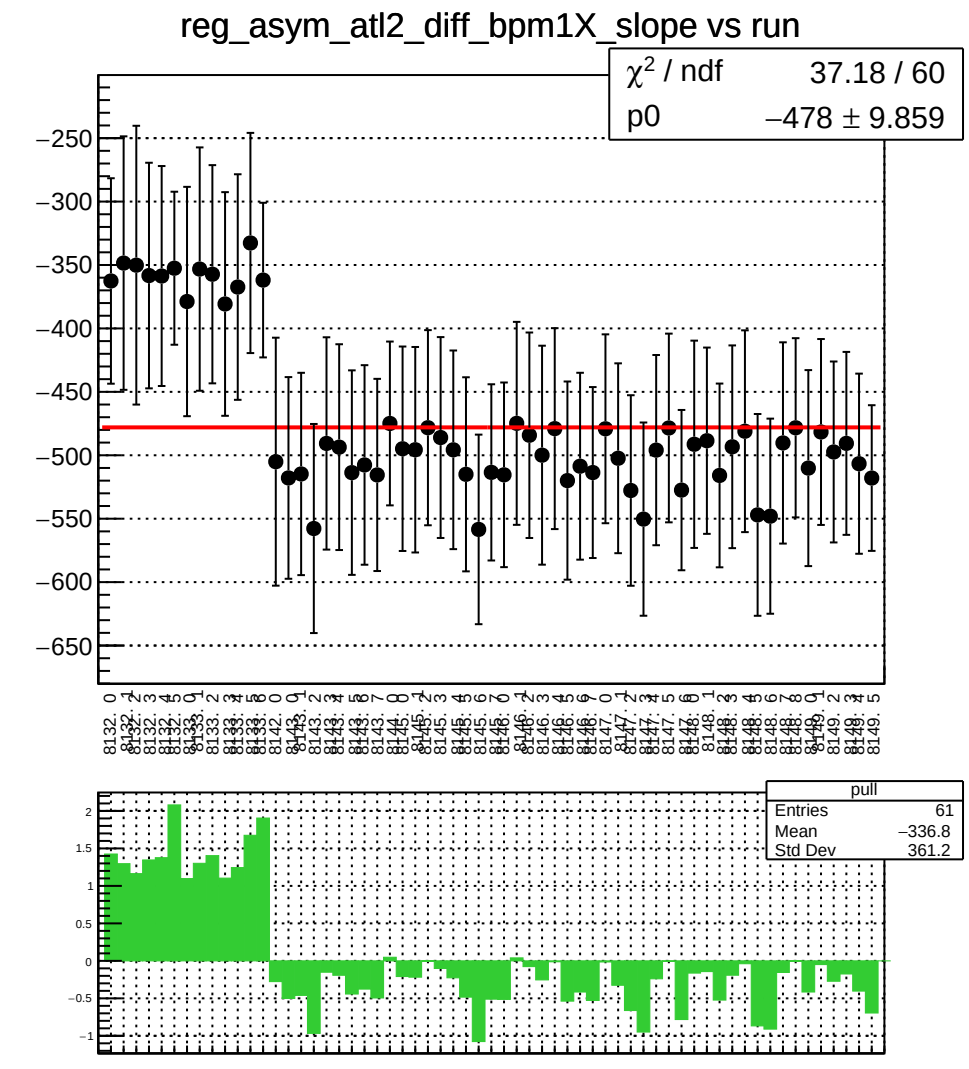

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 159 / 60
p0 30.15 ± 2.812
pull
Entries 61
Mean −103.9
Std Dev 128.5

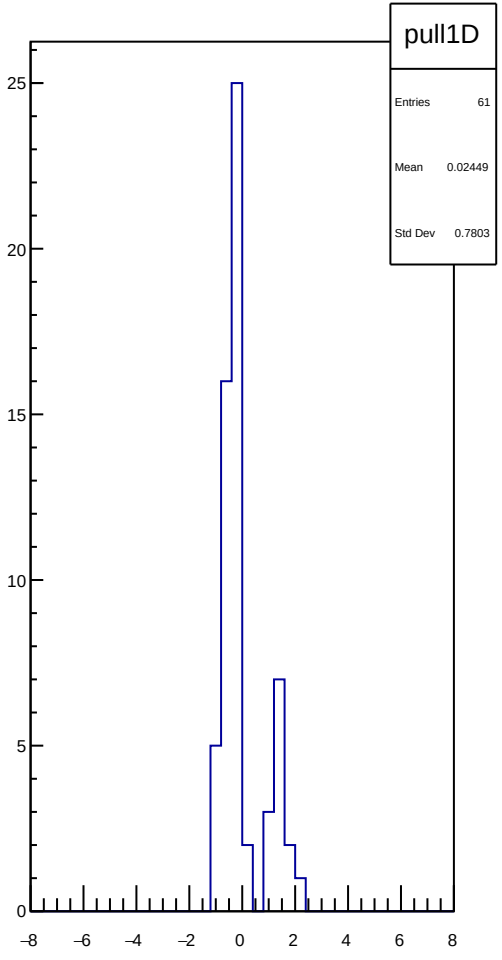

pull1D
Entries 61
Mean −0.1154
Std Dev 1.61

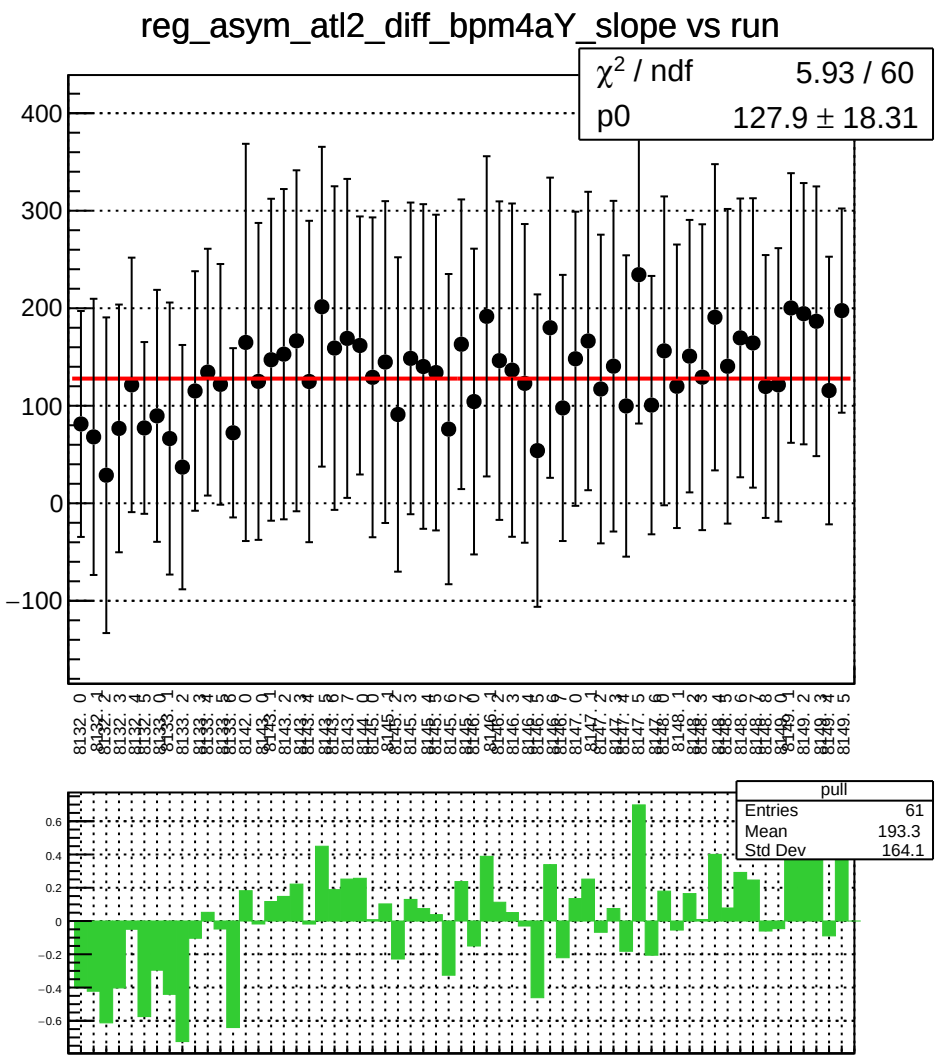

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 76.93 / 60
p0 1.995 ± 5.757
pull
Entries 61
Mean −639.8
Std Dev 665.6

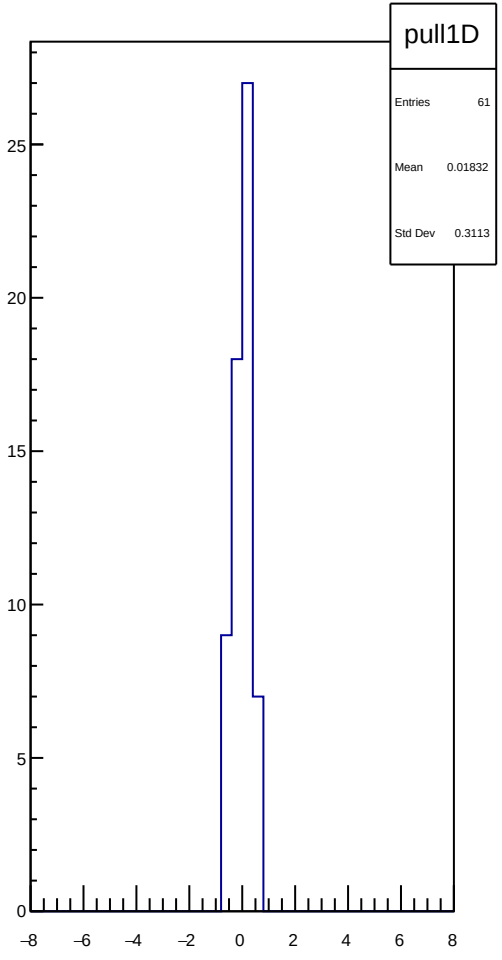

pull1D
Entries 61
Mean −0.006742
Std Dev 1.123

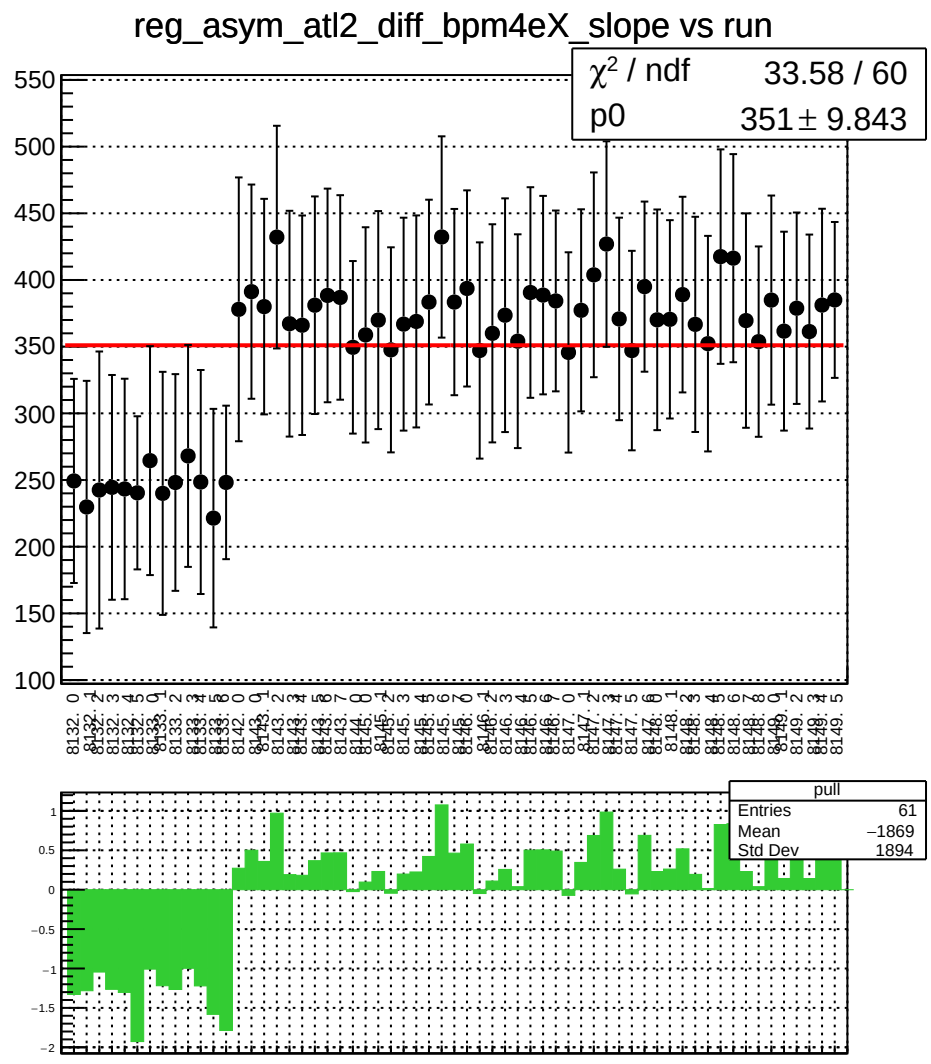

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 1.117e+04 / 60
p0 5.548 ± 0.2396
pull
Entries 61
Mean 1237
Std Dev 1212
pull1D
Entries 61
Mean −6.628
Std Dev 0.9672

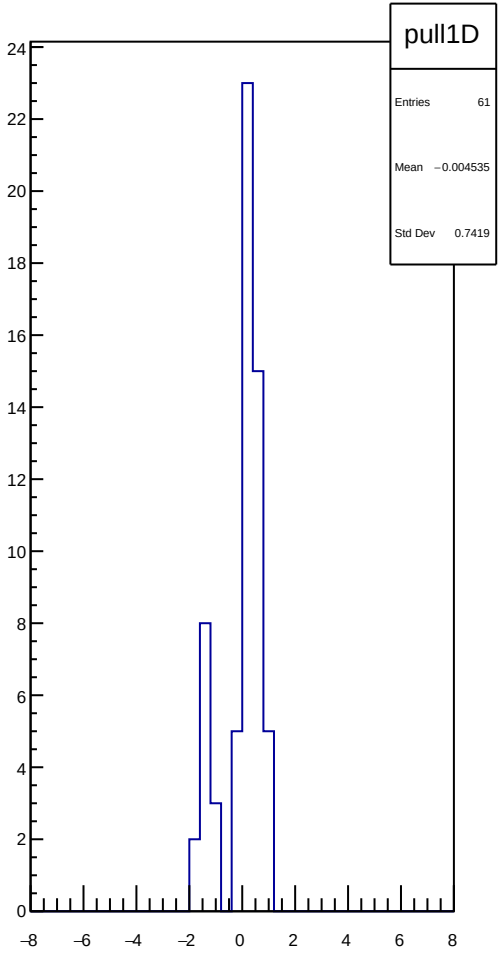

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 37.18 / 60
p0 −478 ± 9.859
pull
Entries 61
Mean −336.8
Std Dev 361.2

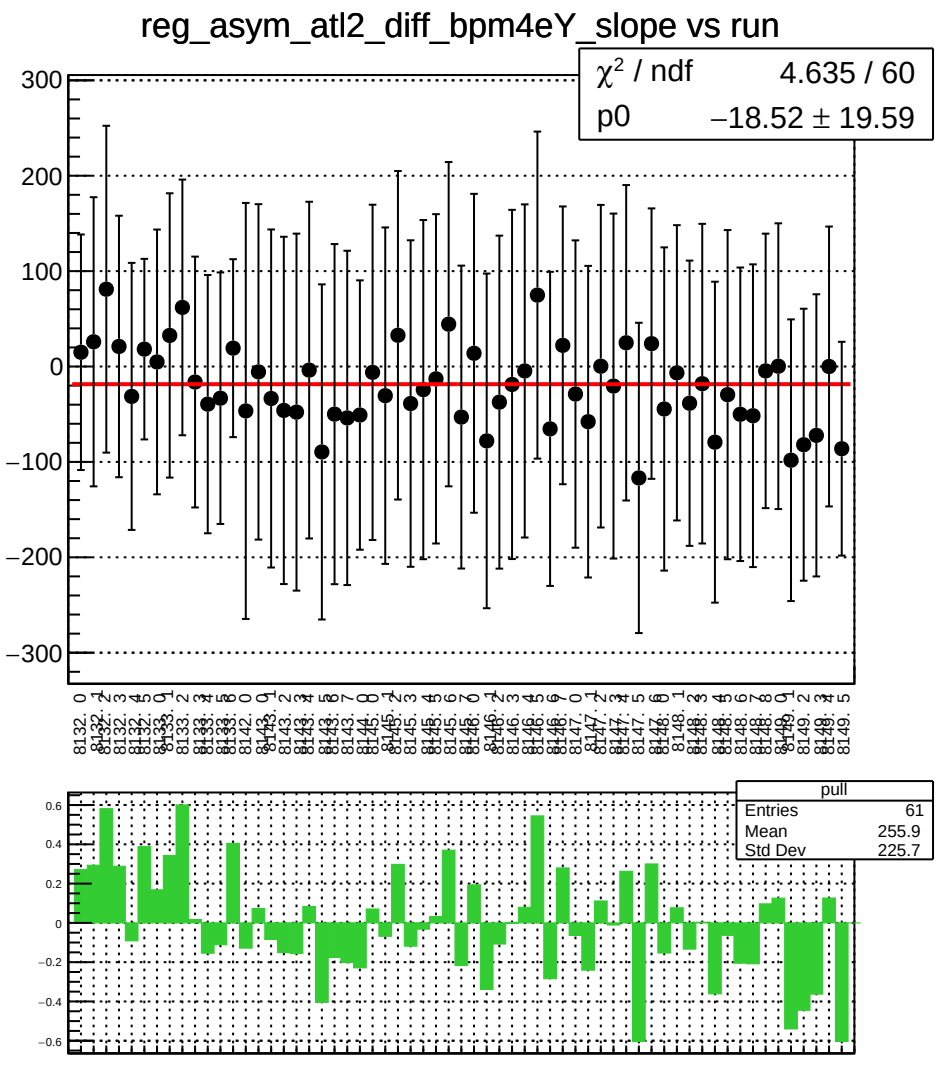

pull1D
Entries 61
Mean 0.02449
Std Dev 0.7803

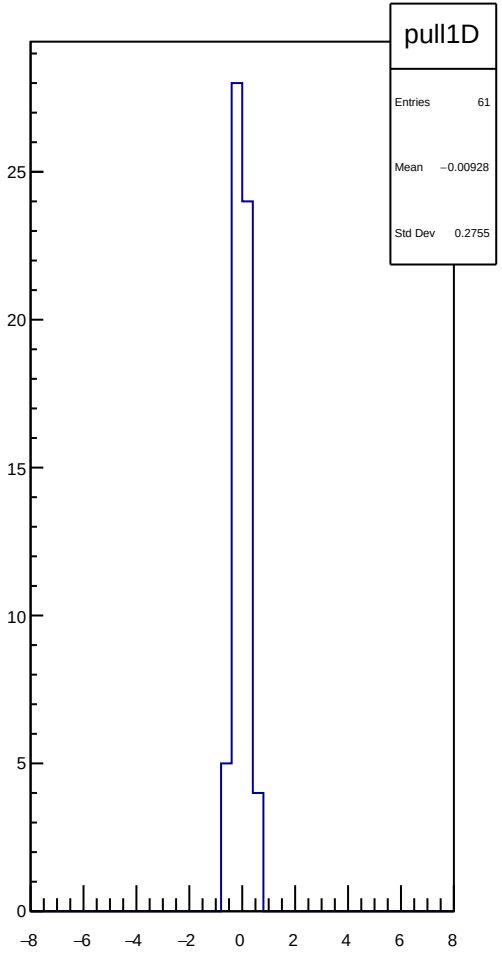

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.93 / 60
p0 127.9 ± 18.31
pull
Entries 61
Mean 193.3
Std Dev 164.1

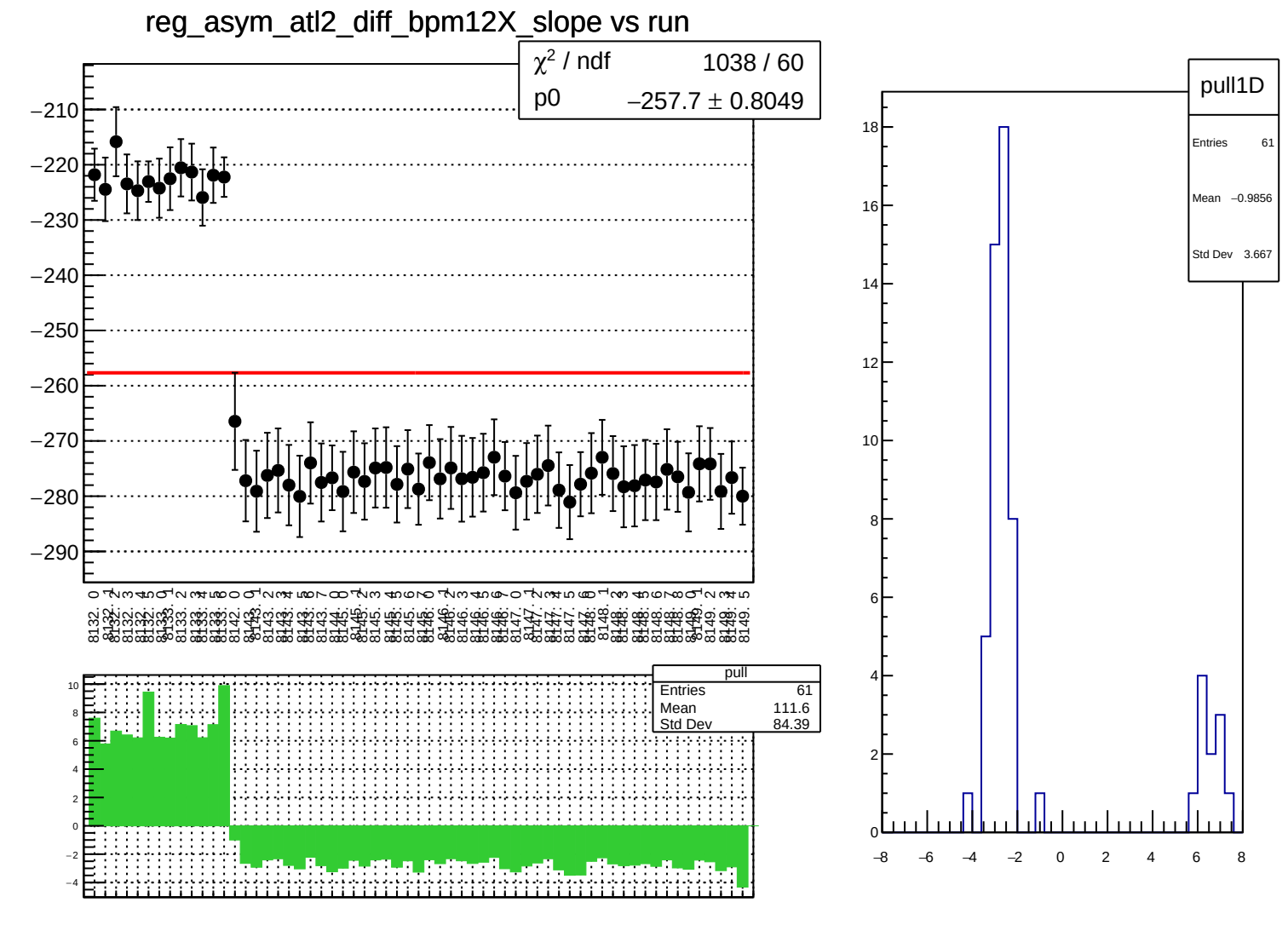

pull1D
Entries 61
Mean 0.01832
Std Dev 0.3113

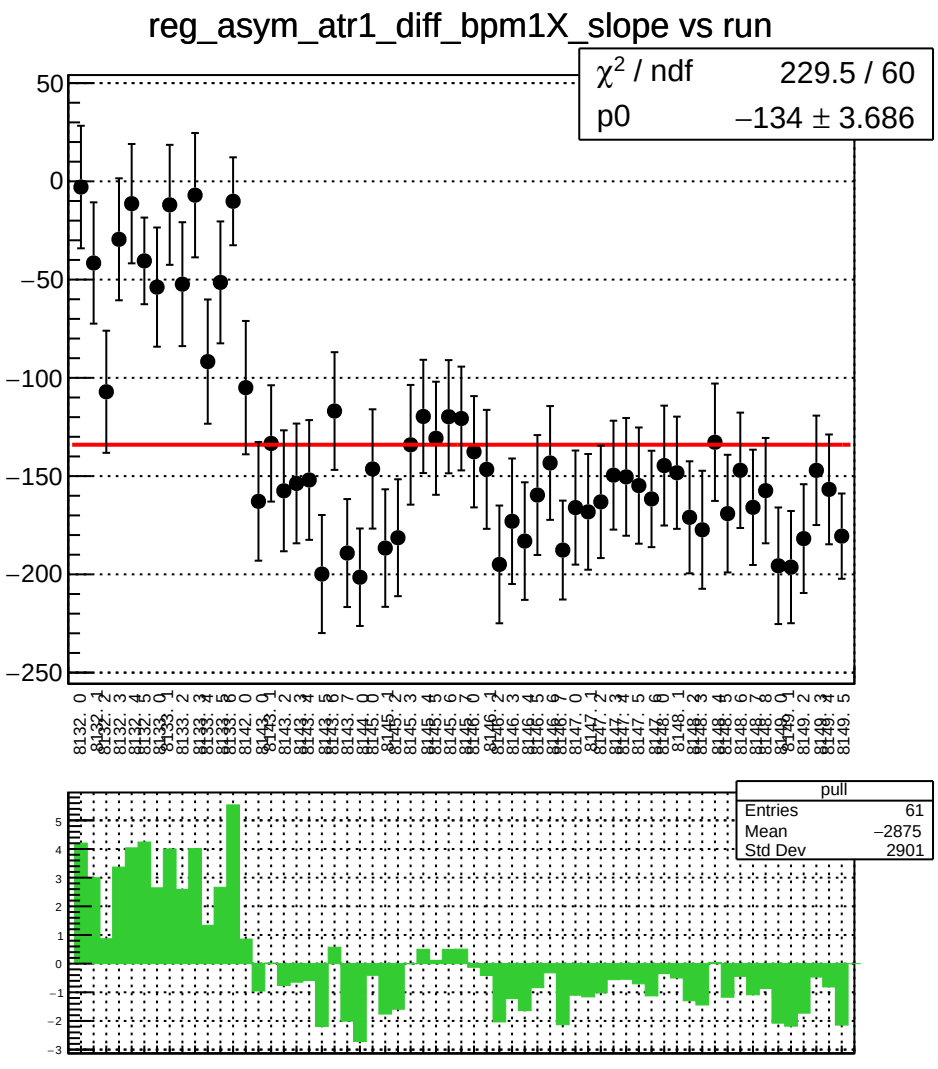

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 33.58 / 60
p0 351 ± 9.843
pull
Entries 61
Mean −1869
Std Dev 1894

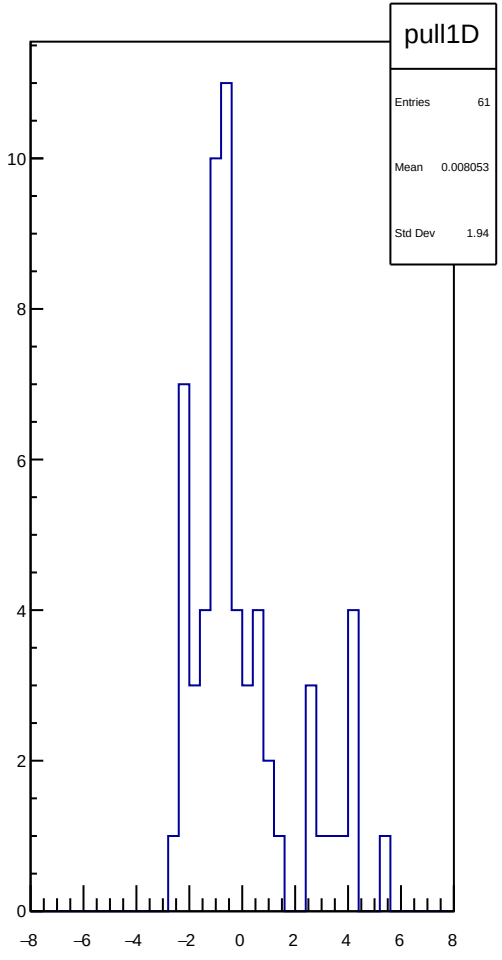

pull1D
Entries 61
Mean −0.004535
Std Dev 0.7419

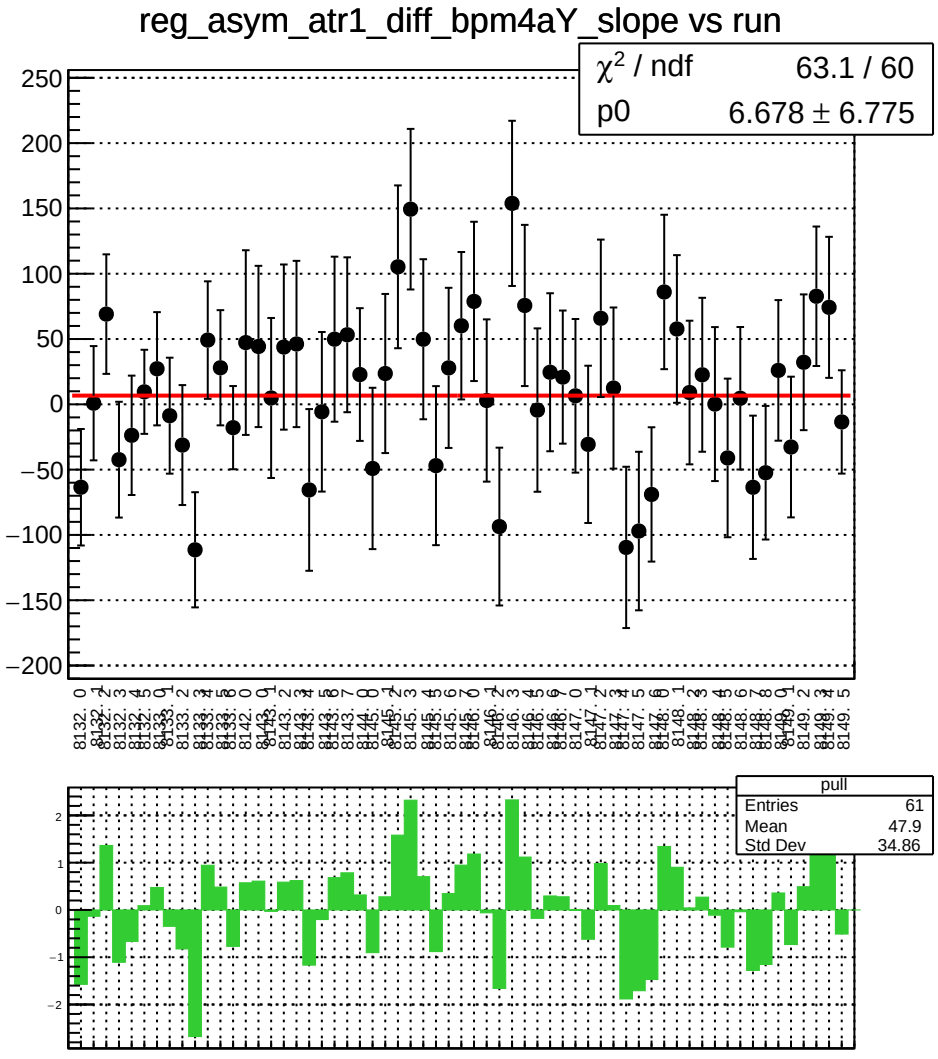

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 4.635 / 60
p0 −18.52 ± 19.59
pull
Entries 61
Mean 255.9
Std Dev 225.7

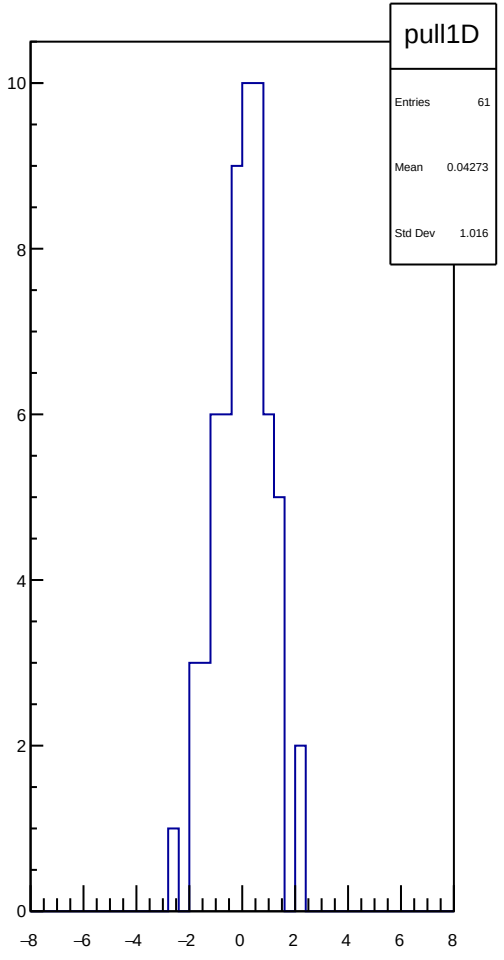

pull1D
Entries 61
Mean −0.00928
Std Dev 0.2755

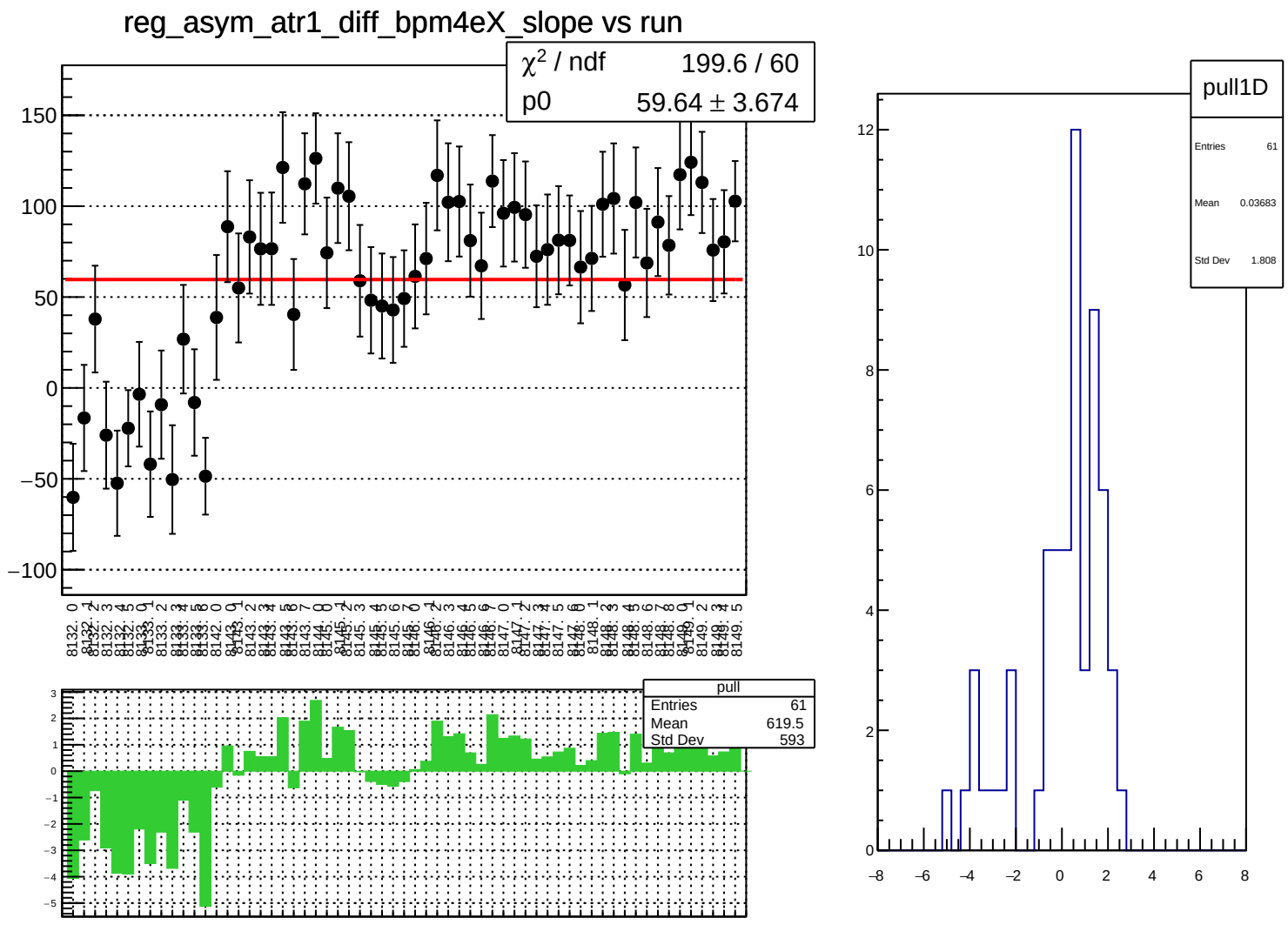

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 1038 / 60
p0 −257.7 ± 0.8049
pull
Entries 61
Mean 111.6
Std Dev 84.39
pull1D
Entries 61
Mean −0.9856
Std Dev 3.667

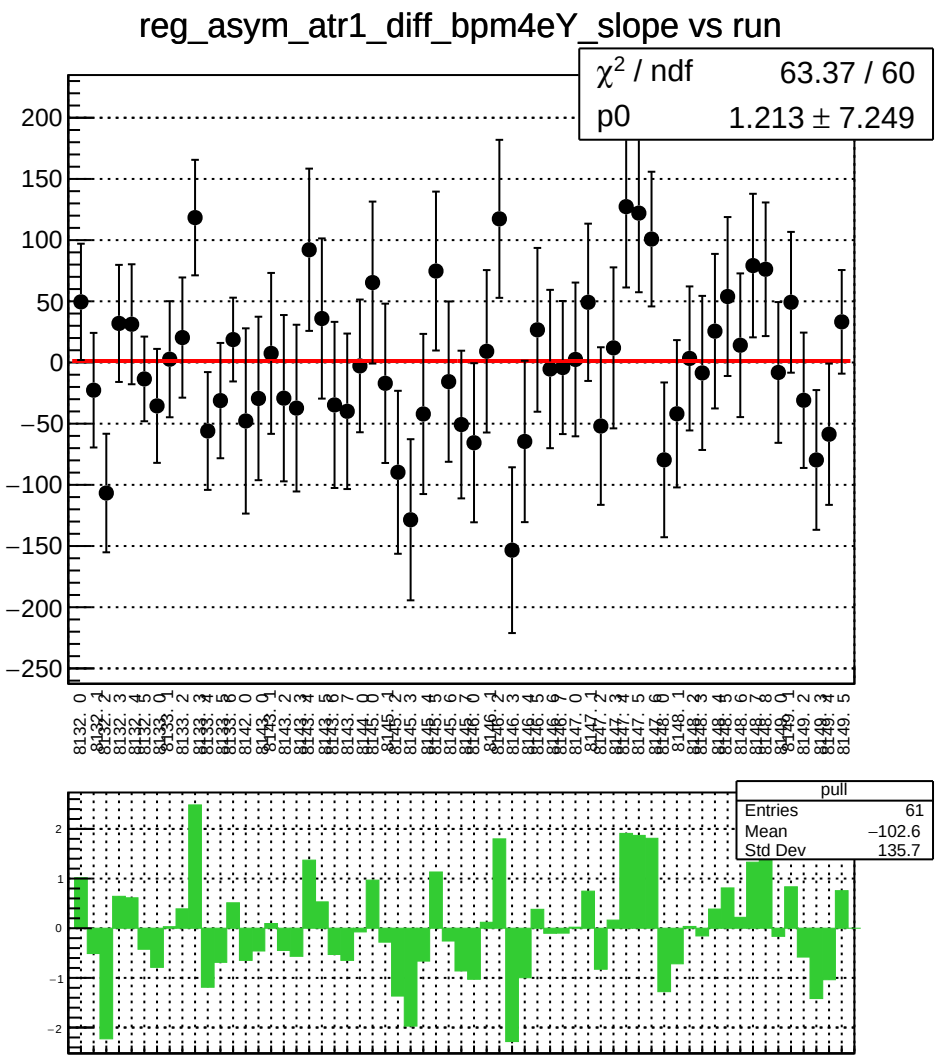

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 229.5 / 60
p0 −134 ± 3.686
pull
Entries 61
Mean −2875
Std Dev 2901

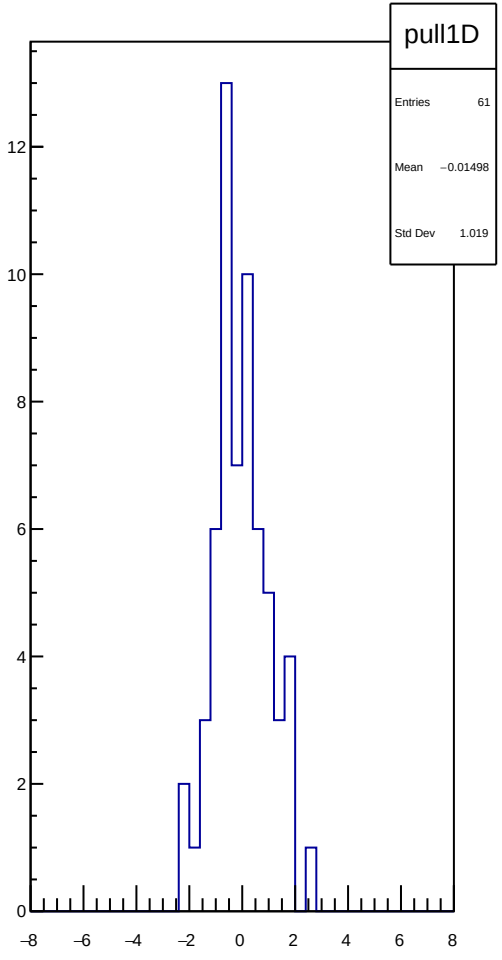

pull1D
Entries 61
Mean 0.008053
Std Dev 1.94

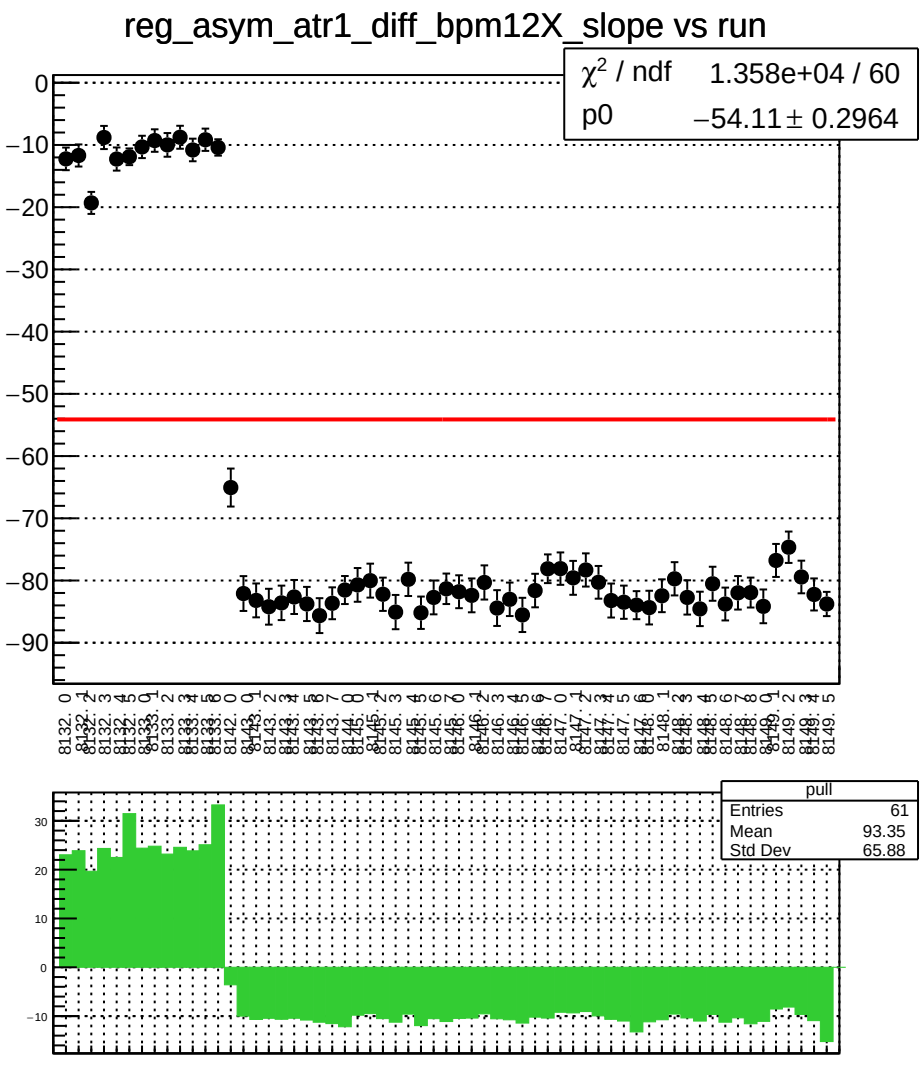

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 63.1 / 60
p0 6.678 ± 6.775
pull
Entries 61
Mean 47.9
Std Dev 34.86

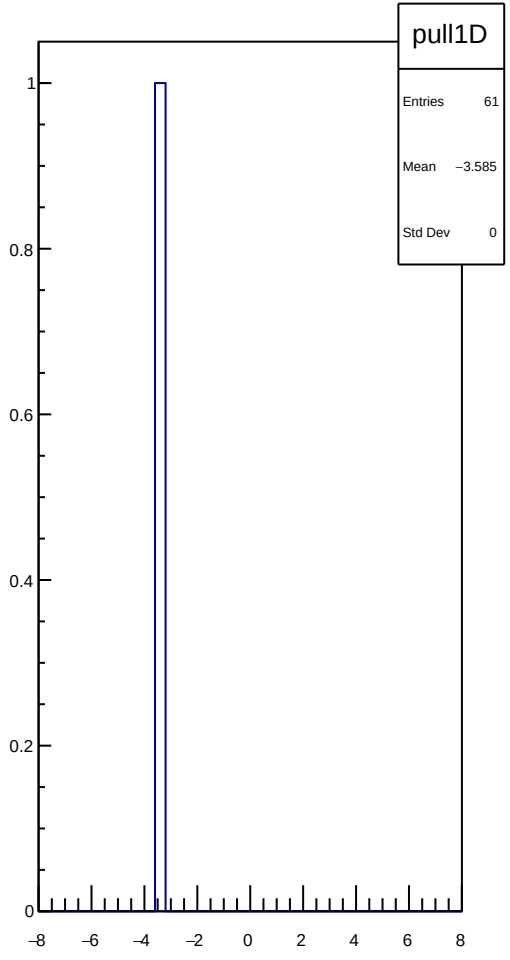

pull1D
Entries 61
Mean 0.04273
Std Dev 1.016

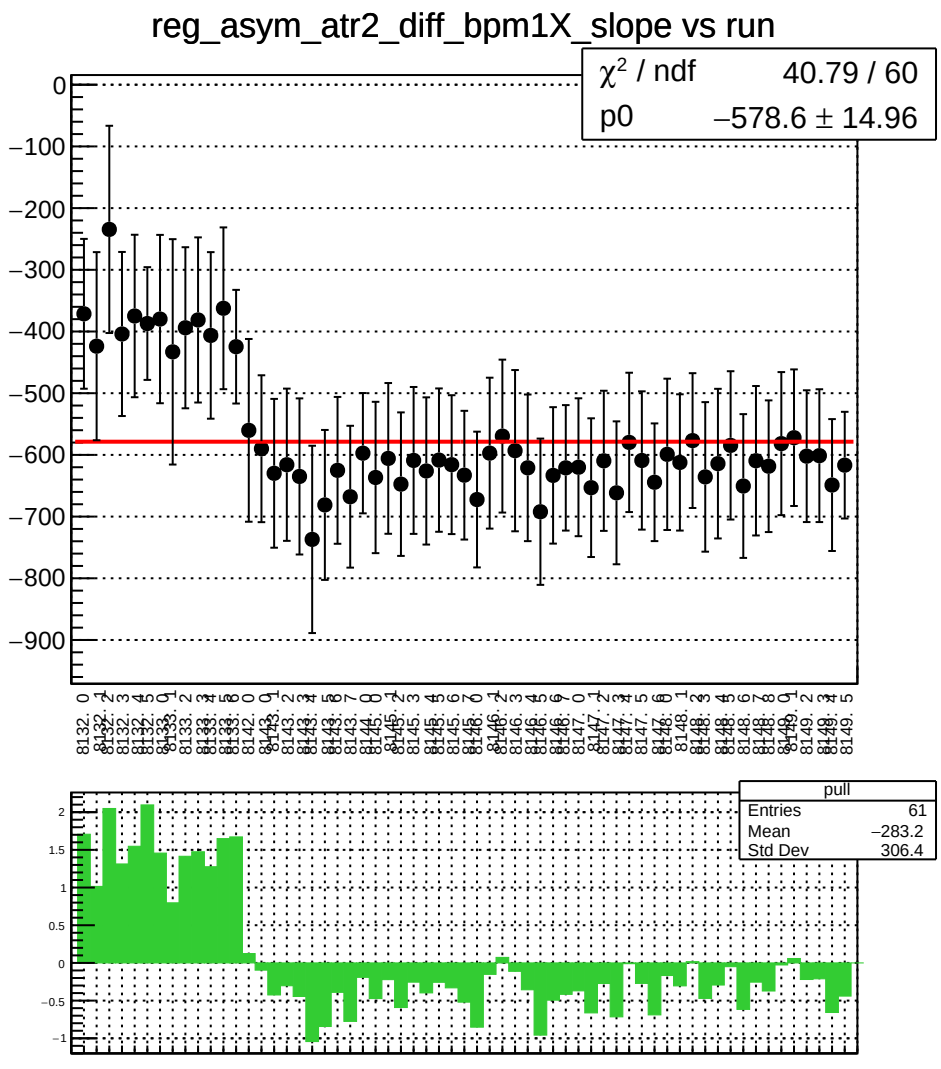

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 199.6 / 60
p0 59.64 ± 3.674
pull
Entries 61
Mean 619.5
Std Dev 593
pull1D
Entries 61
Mean 0.03683
Std Dev 1.808

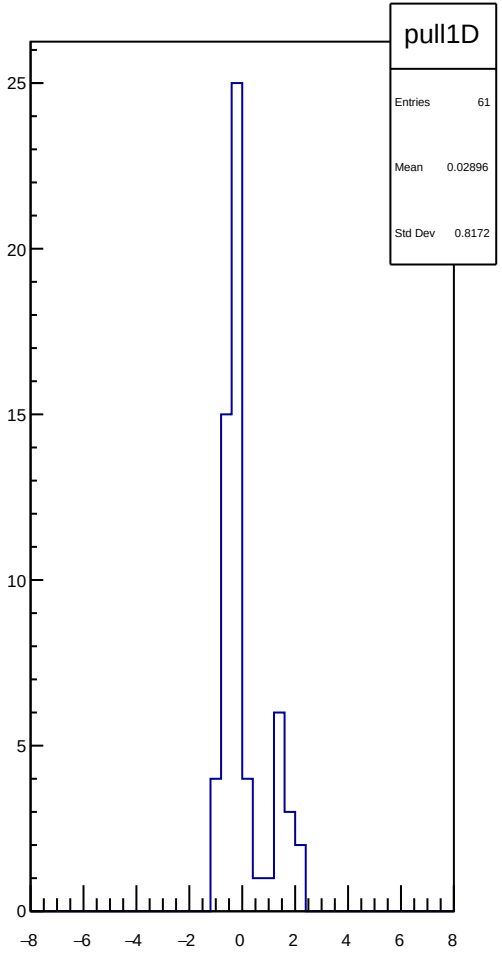

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 63.37 / 60
p0 1.213 ± 7.249
pull
Entries 61
Mean −102.6
Std Dev 135.7

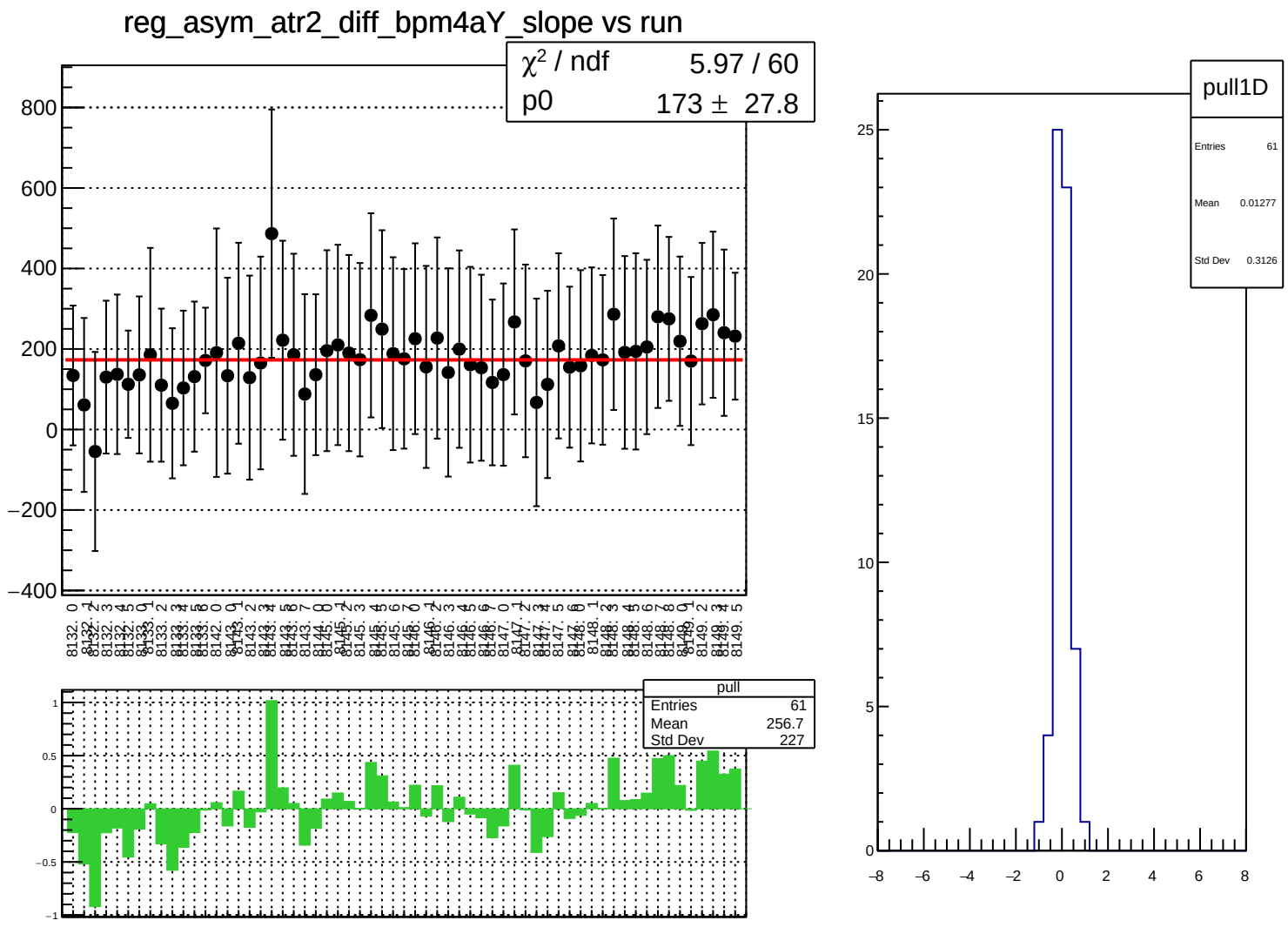

pull1D
Entries 61
Mean −0.01498
Std Dev 1.019

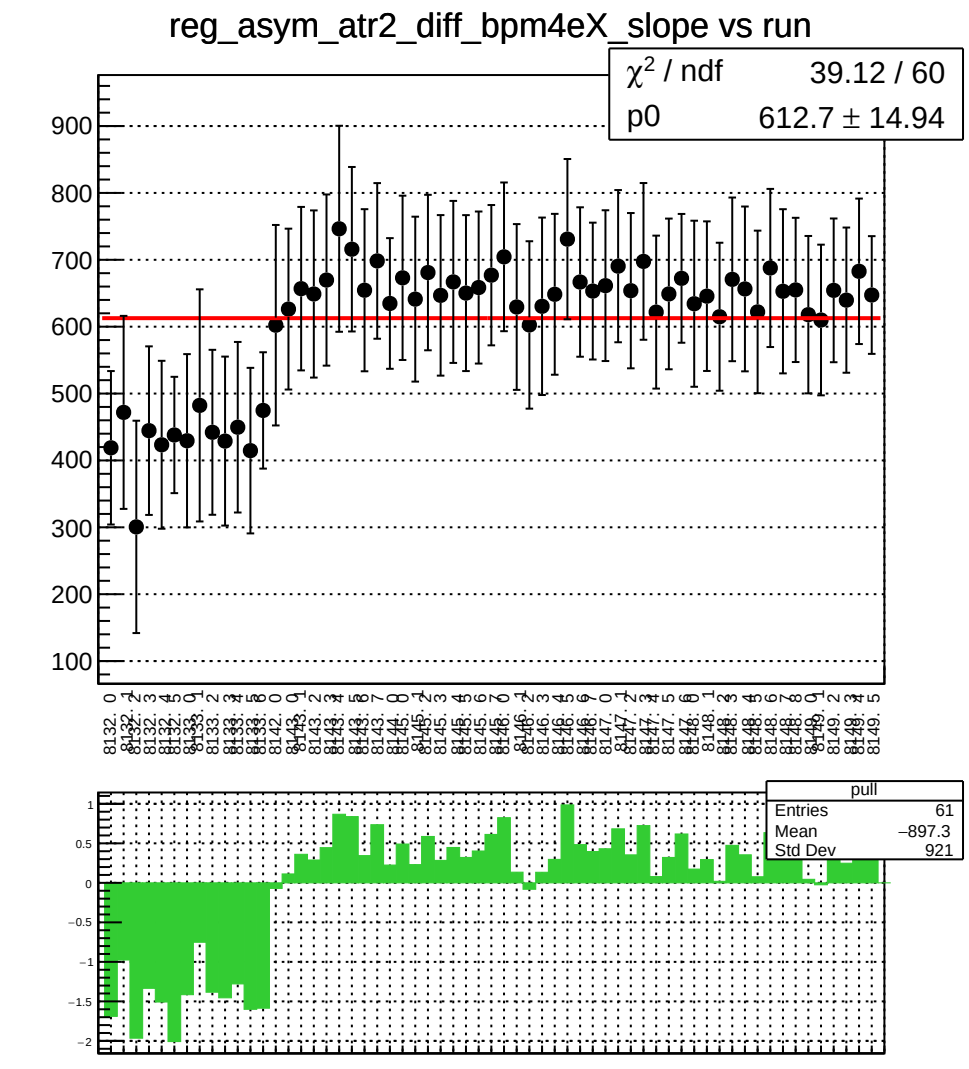

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 1.358e+04 / 60
p0 −54.11 ± 0.2964
pull
Entries 61
Mean 93.35
Std Dev 65.88

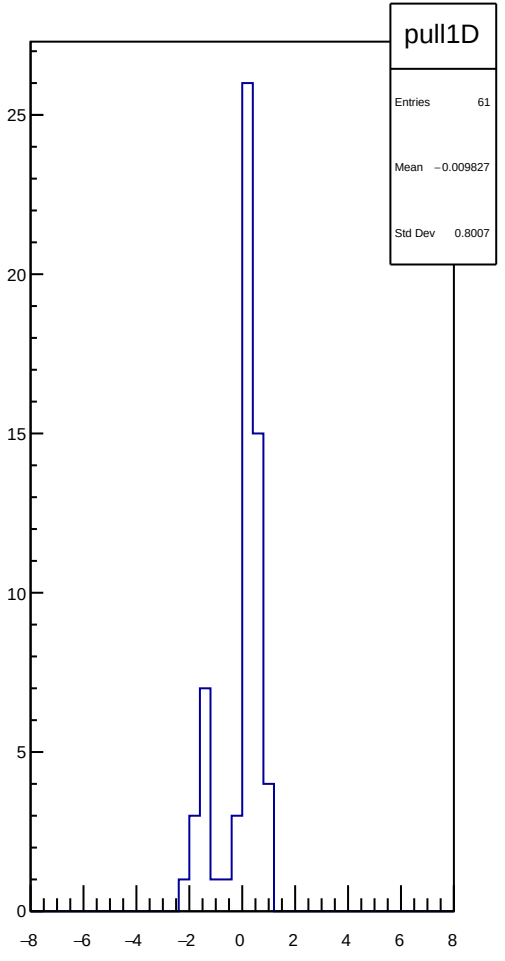

pull1D
Entries 61
Mean −3.585
Std Dev 0

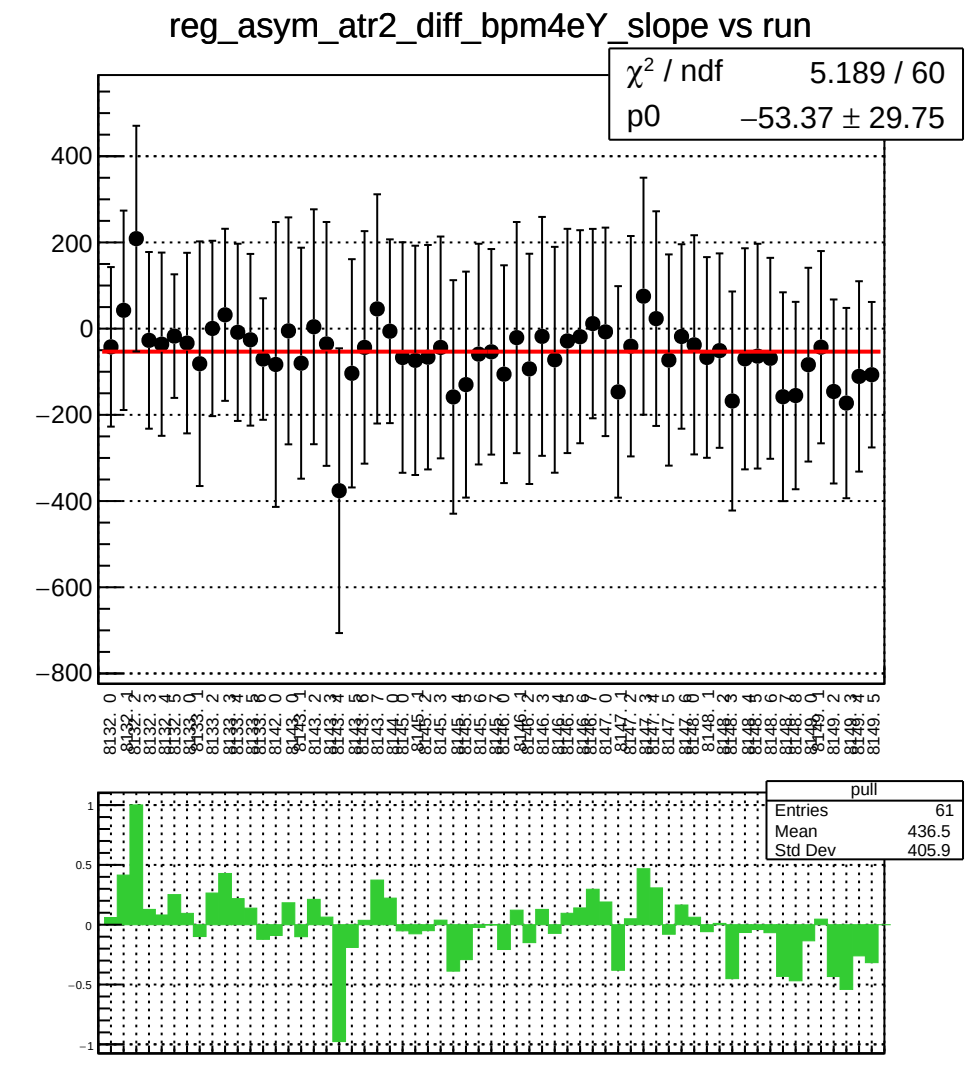

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 40.79 / 60
p0 −578.6 ± 14.96
pull
Entries 61
Mean −283.2
Std Dev 306.4

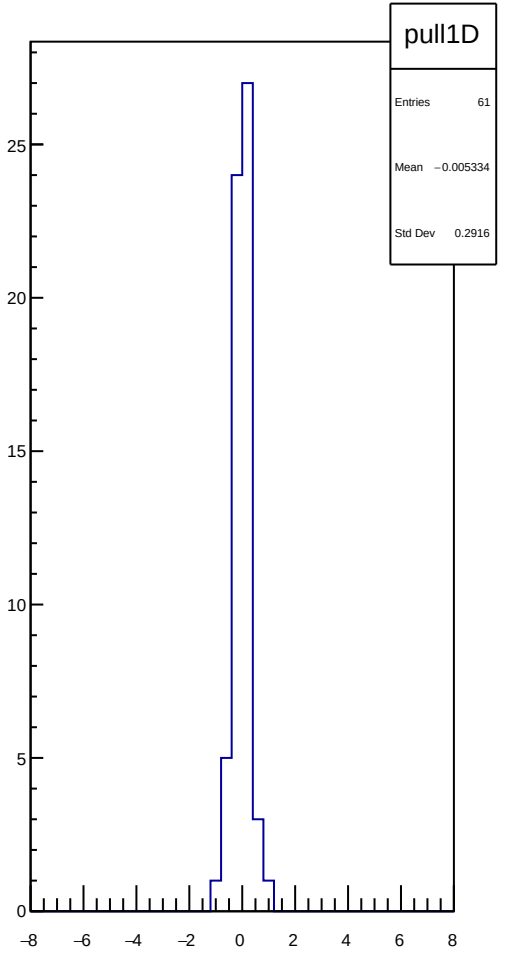

pull1D
Entries 61
Mean 0.02896
Std Dev 0.8172

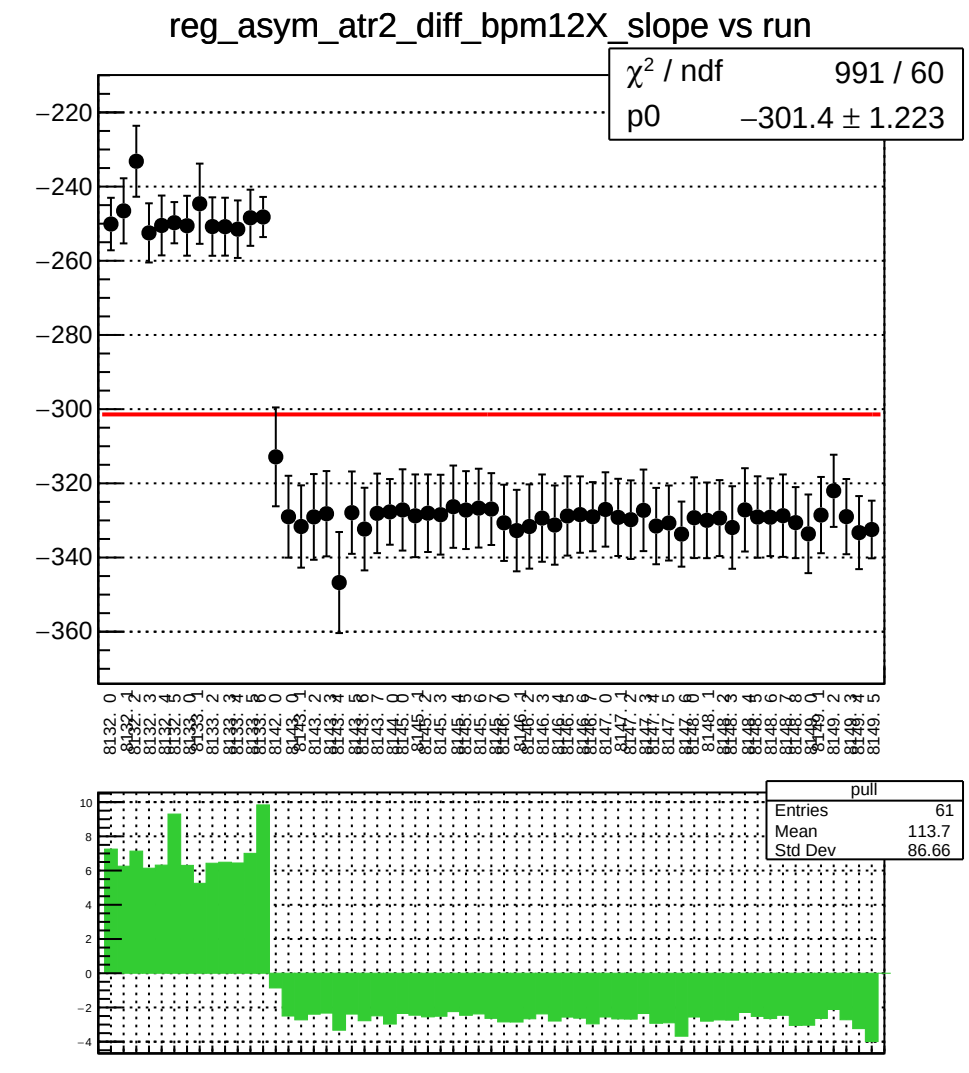

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 5.97 / 60
p0 173 ± 27.8
pull
Entries 61
Mean 256.7
Std Dev 227
pull1D
Entries 61
Mean 0.01277
Std Dev 0.3126

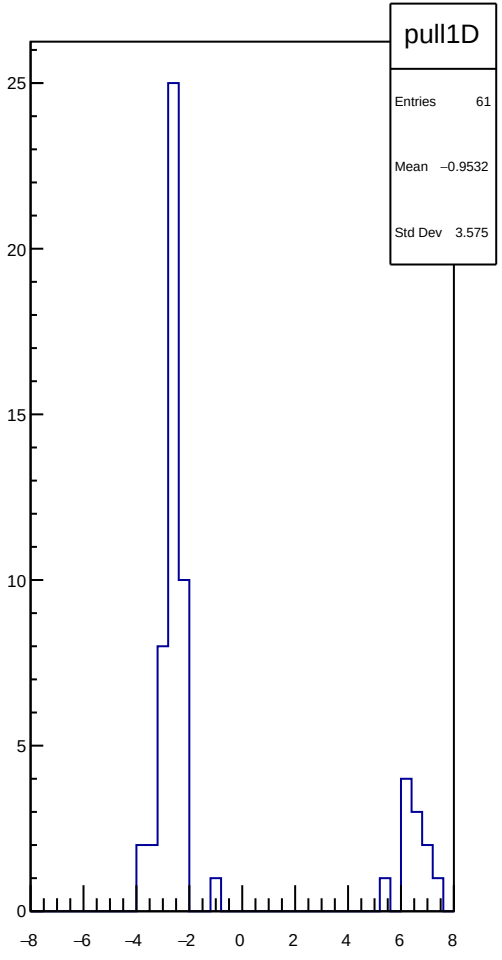

reg_asym_atr2_diff_bpm4eX_slope vs run
χ^2 / ndf 39.12 / 60
p0 612.7 ± 14.94
pull
Entries 61
Mean −897.3
Std Dev 921

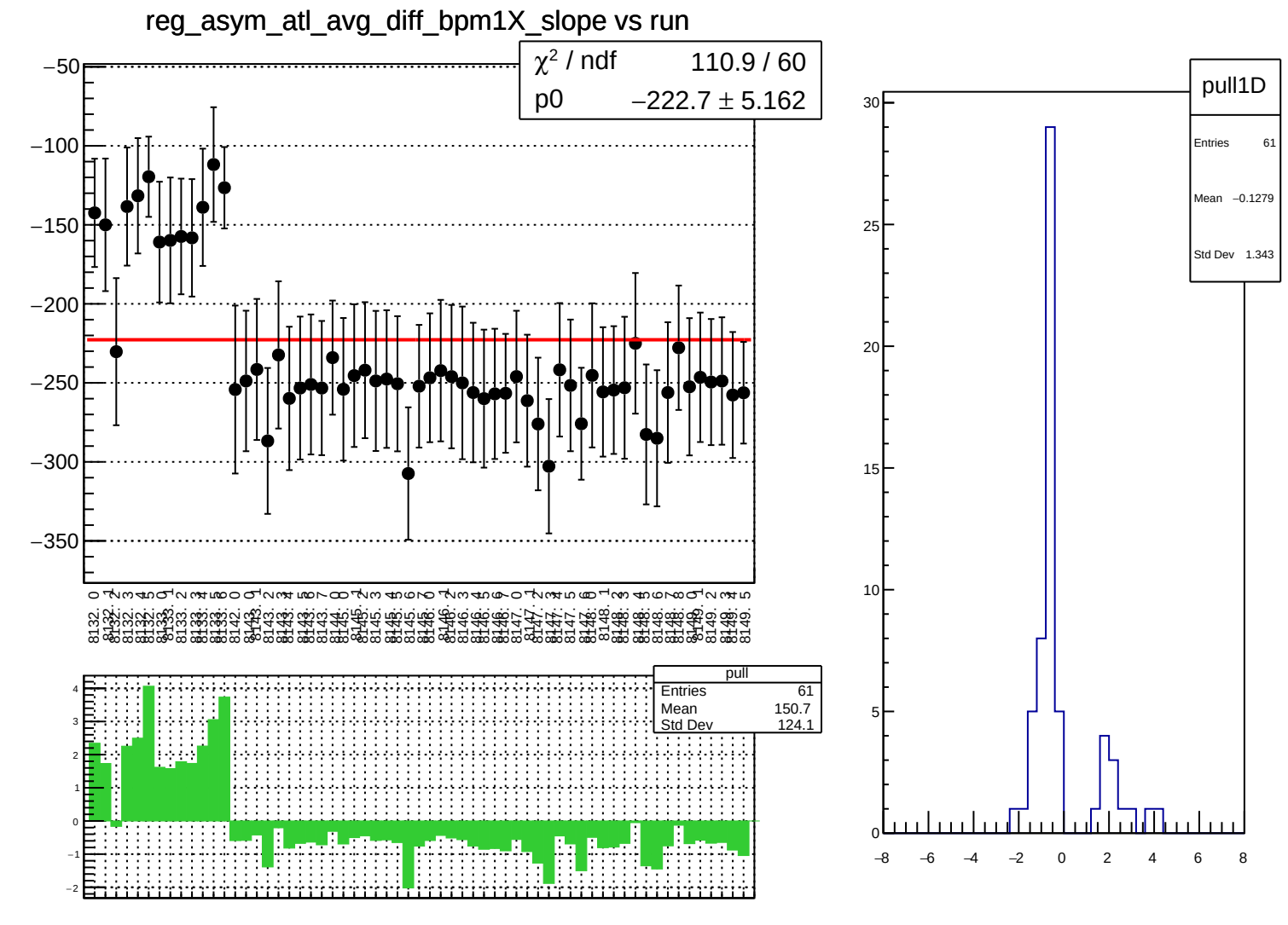

pull1D
Entries 61
Mean −0.009827
Std Dev 0.8007

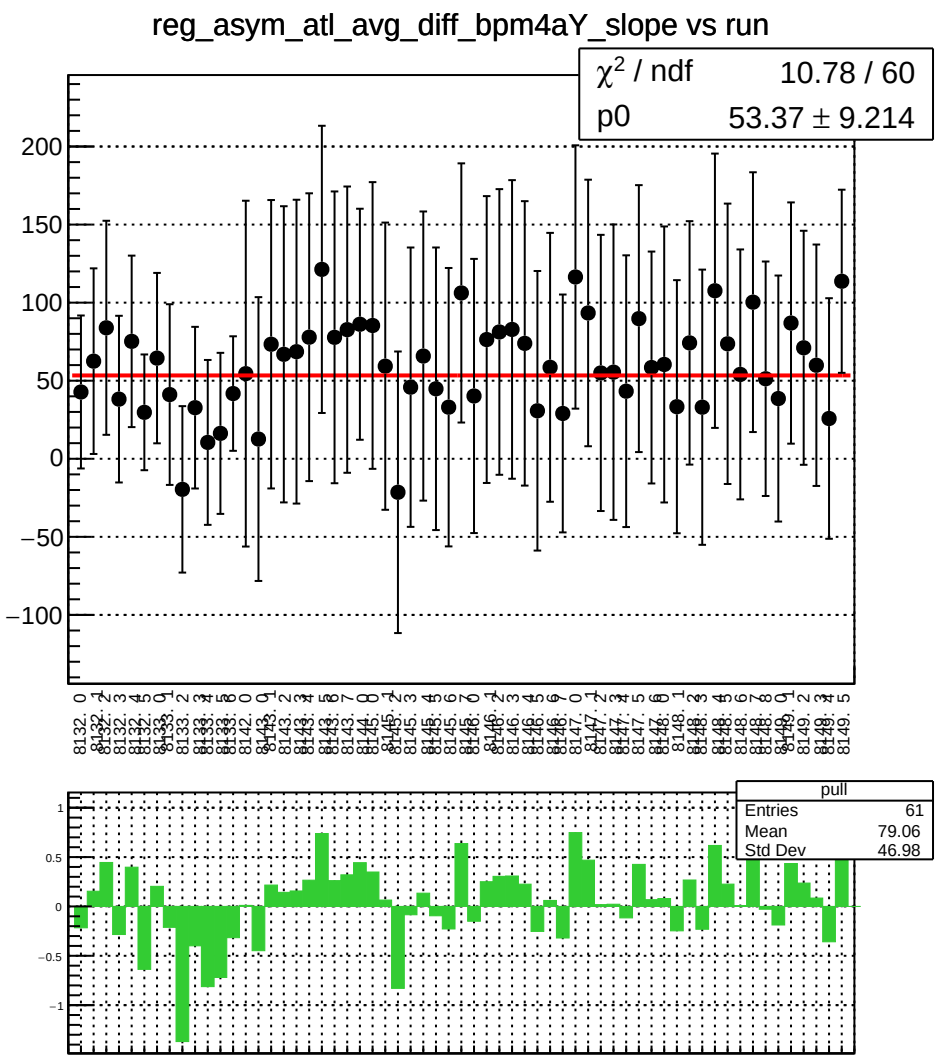

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 5.189 / 60
p0 −53.37 ± 29.75
pull
Entries 61
Mean 436.5
Std Dev 405.9

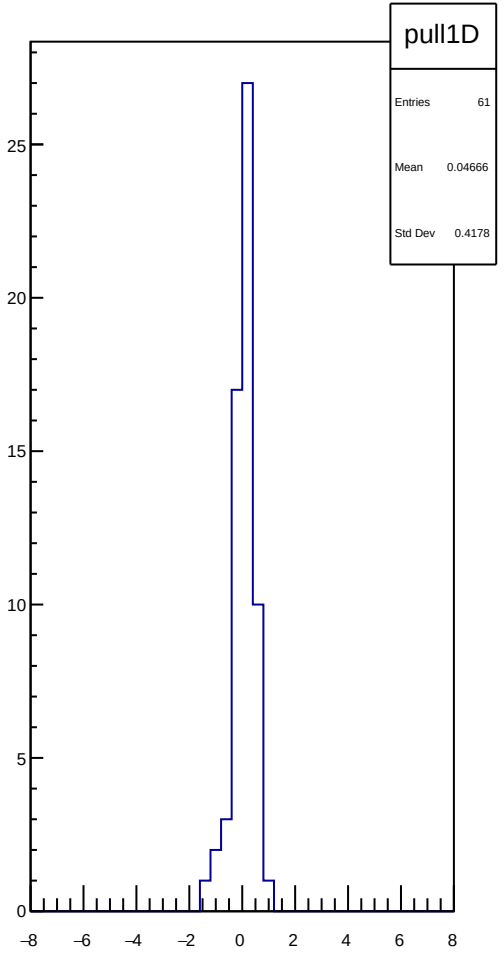

pull1D
Entries 61
Mean −0.005334
Std Dev 0.2916

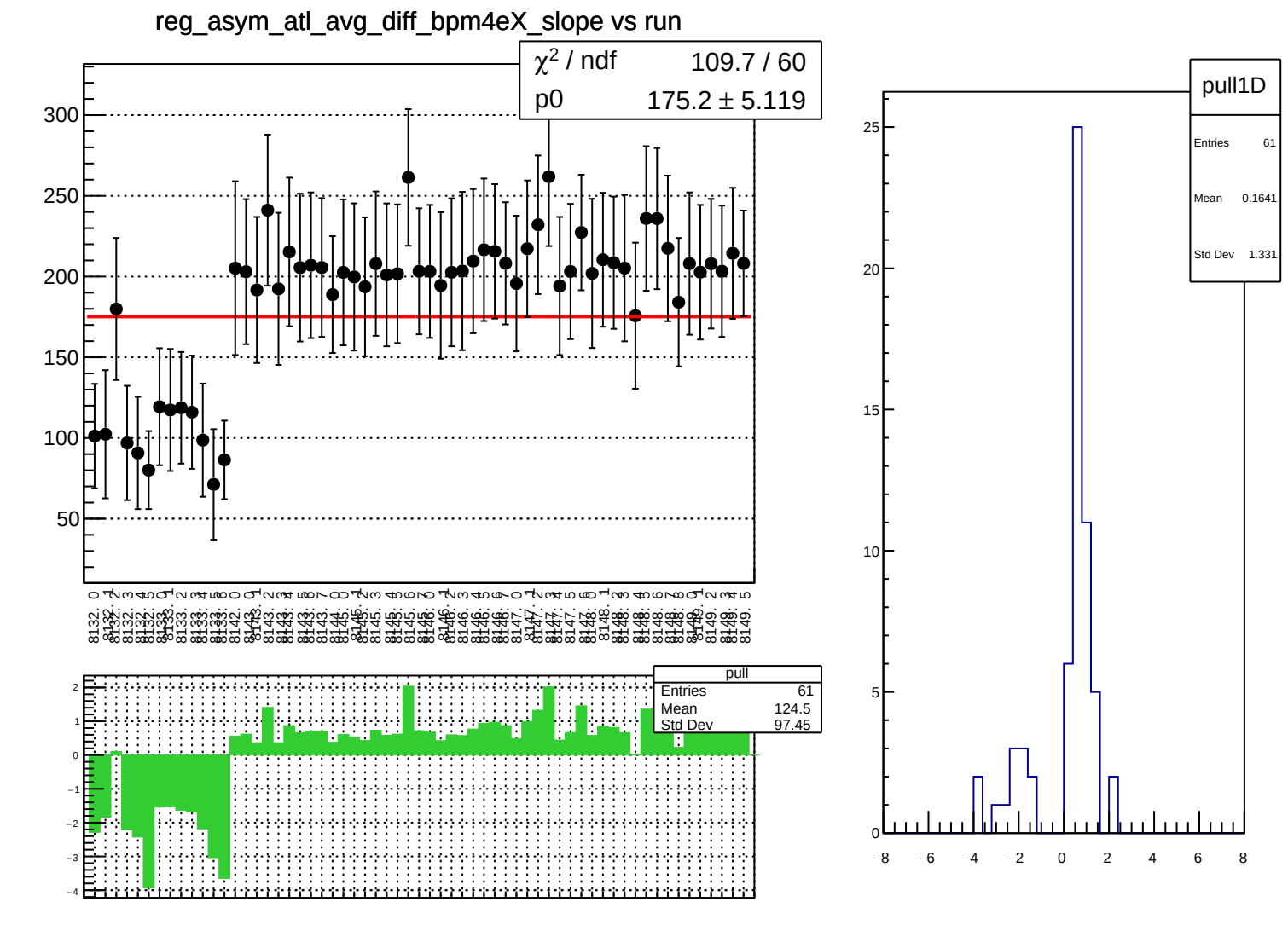

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 991 / 60
p0 −301.4 ± 1.223
pull
Entries 61
Mean 113.7
Std Dev 86.66

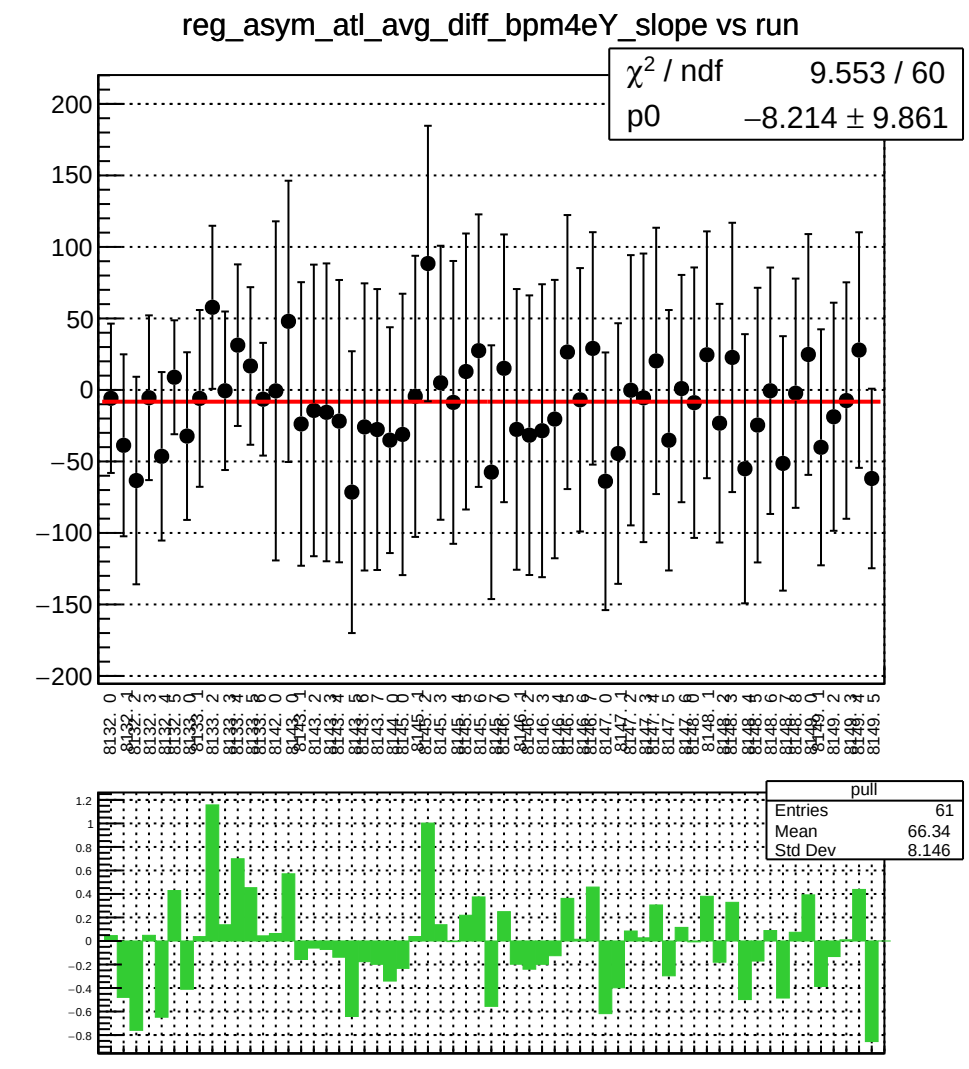

pull1D
Entries 61
Mean −0.9532
Std Dev 3.575

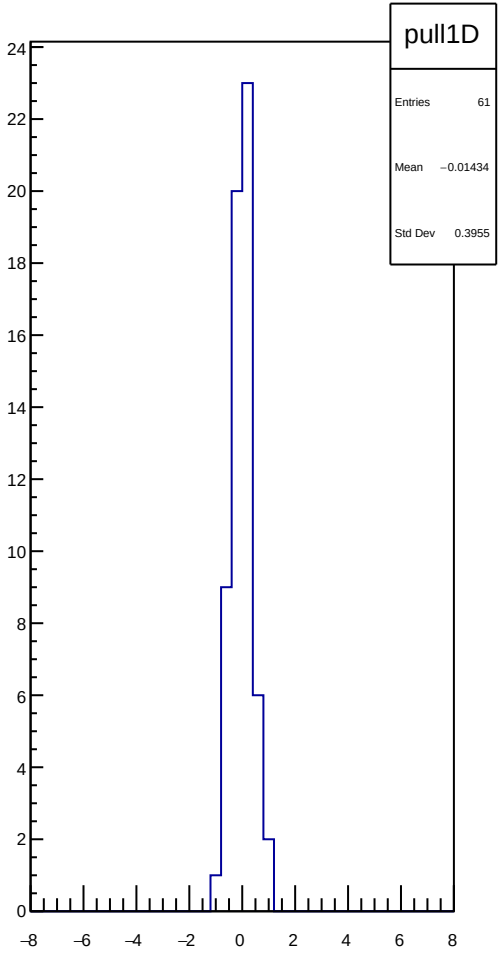

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 110.9 / 60
p0 −222.7 ± 5.162
pull
Entries 61
Mean 150.7
Std Dev 124.1
pull1D
Entries 61
Mean −0.1279
Std Dev 1.343

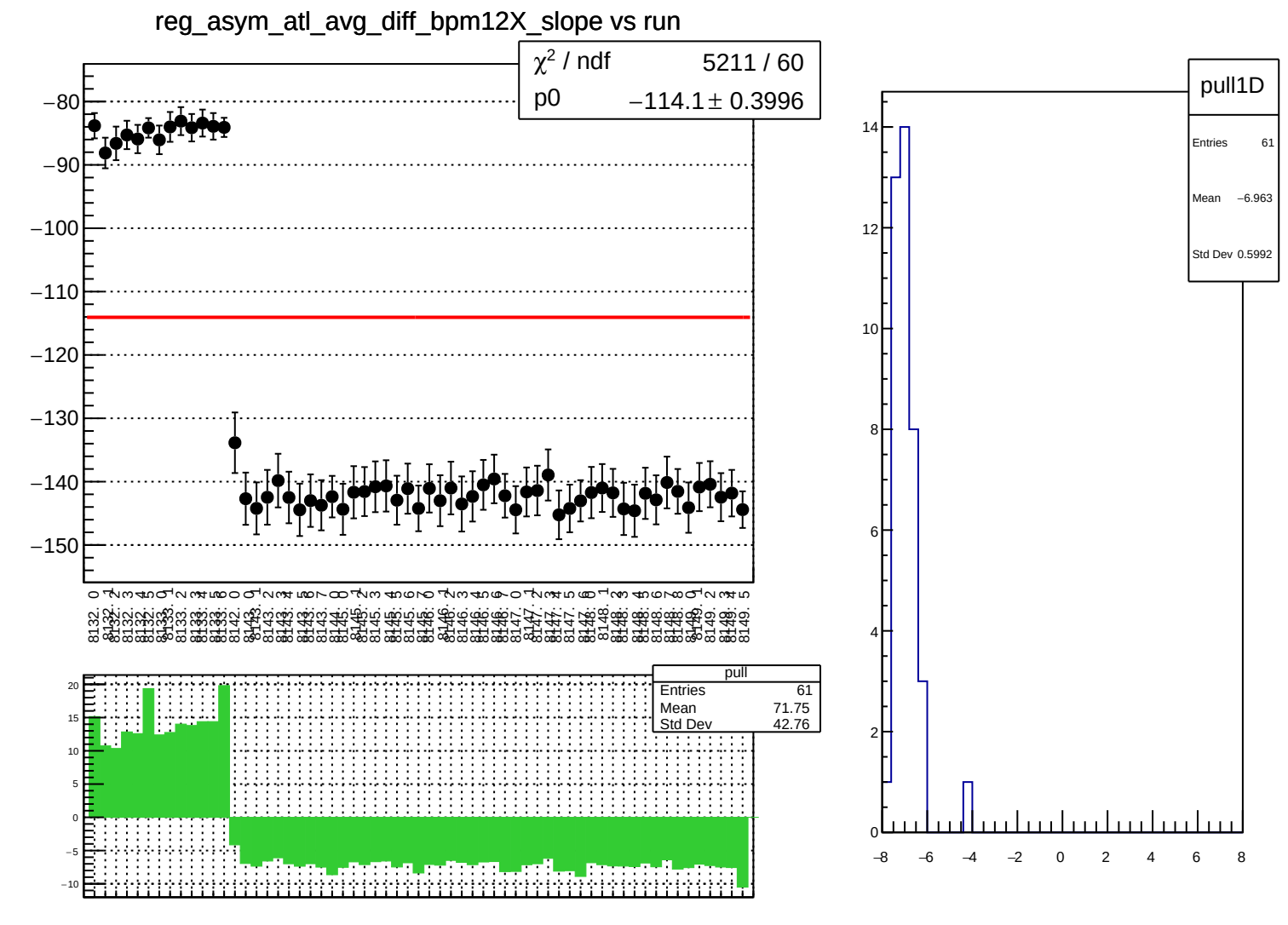

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.78 / 60
p0 53.37 ± 9.214
pull
Entries 61
Mean 79.06
Std Dev 46.98

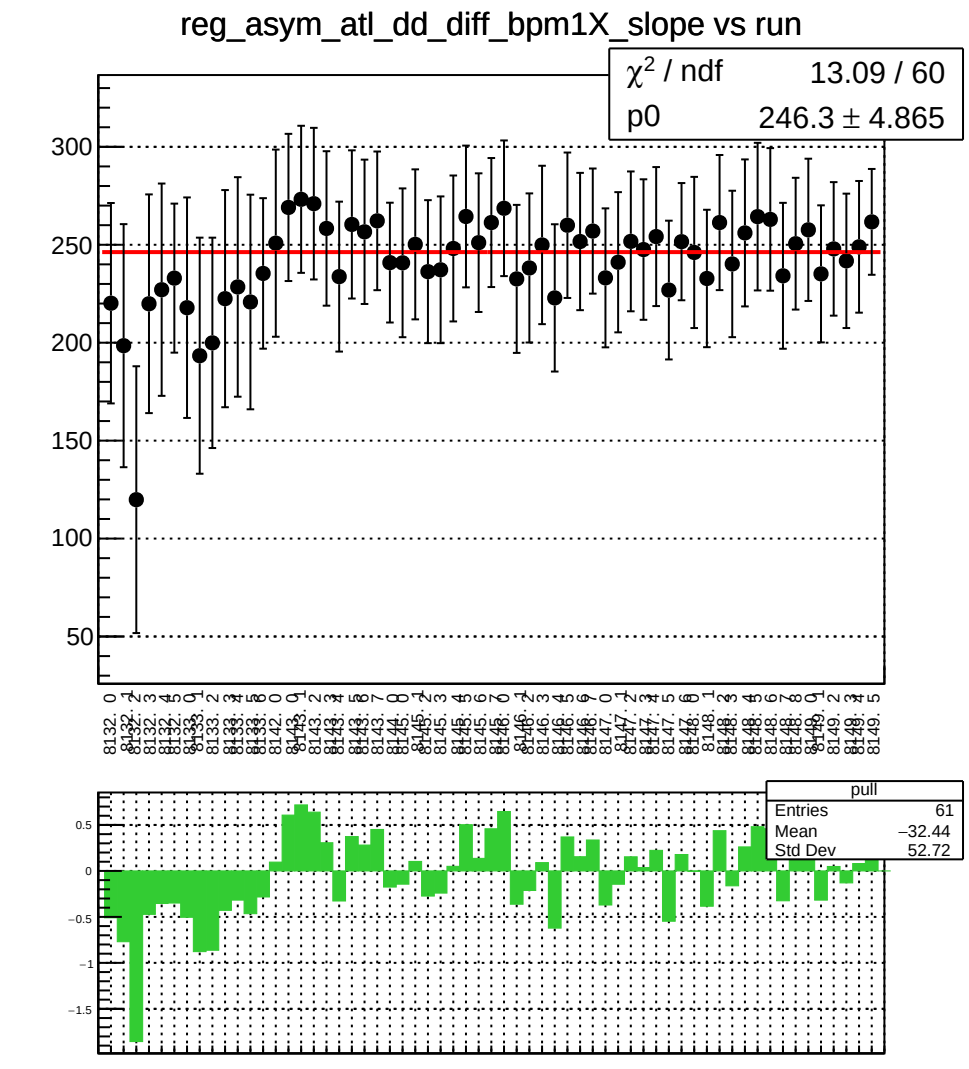

pull1D
Entries 61
Mean 0.04666
Std Dev 0.4178

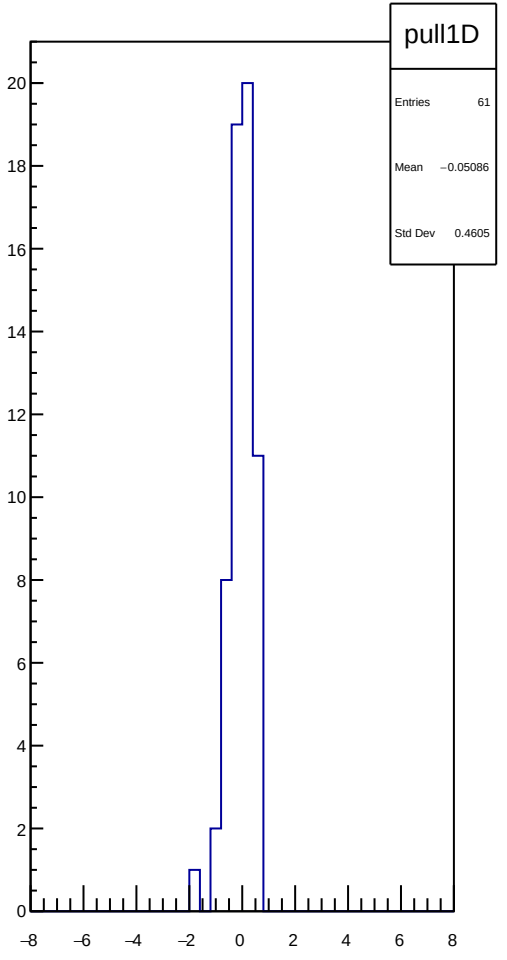

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 109.7 / 60
p0 175.2 ± 5.119
pull
Entries 61
Mean 124.5
Std Dev 97.45
pull1D
Entries 61
Mean 0.1641
Std Dev 1.331

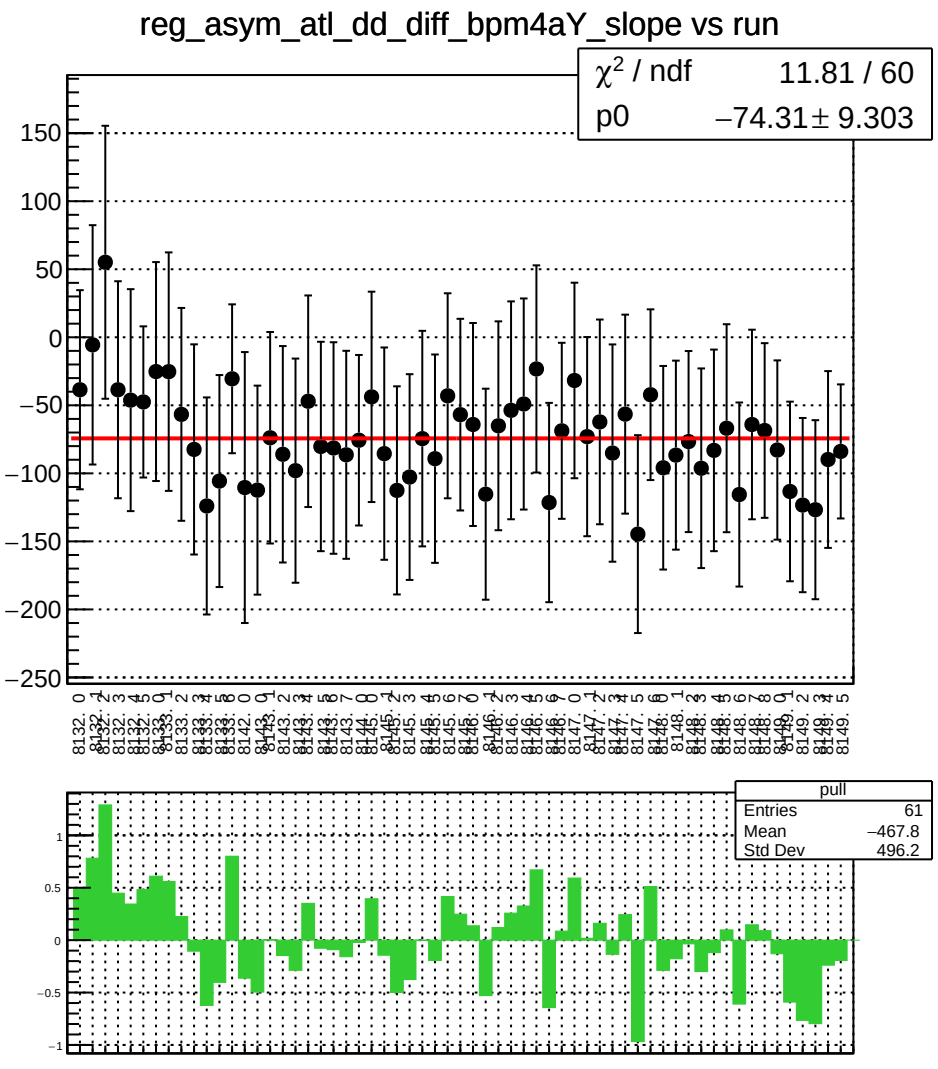

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.553 / 60
p0 −8.214 ± 9.861
pull
Entries 61
Mean 66.34
Std Dev 8.146

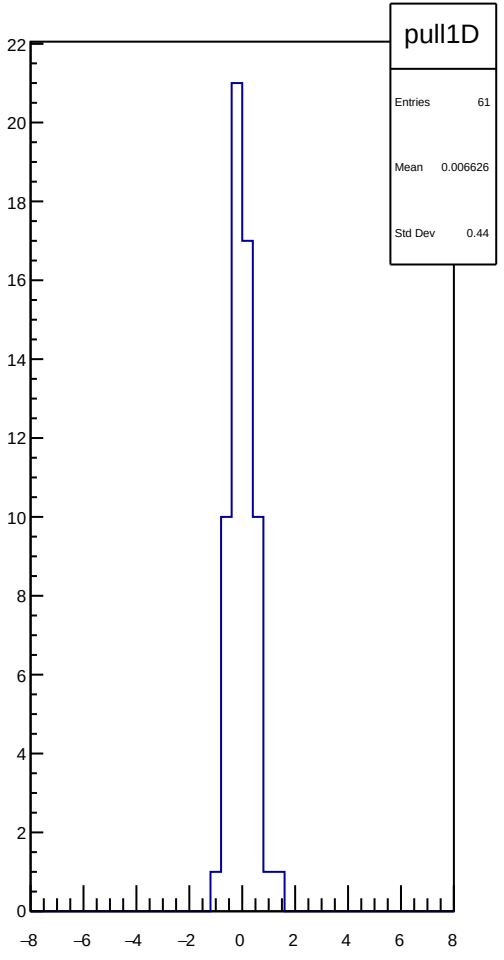

pull1D
Entries 61
Mean −0.01434
Std Dev 0.3955

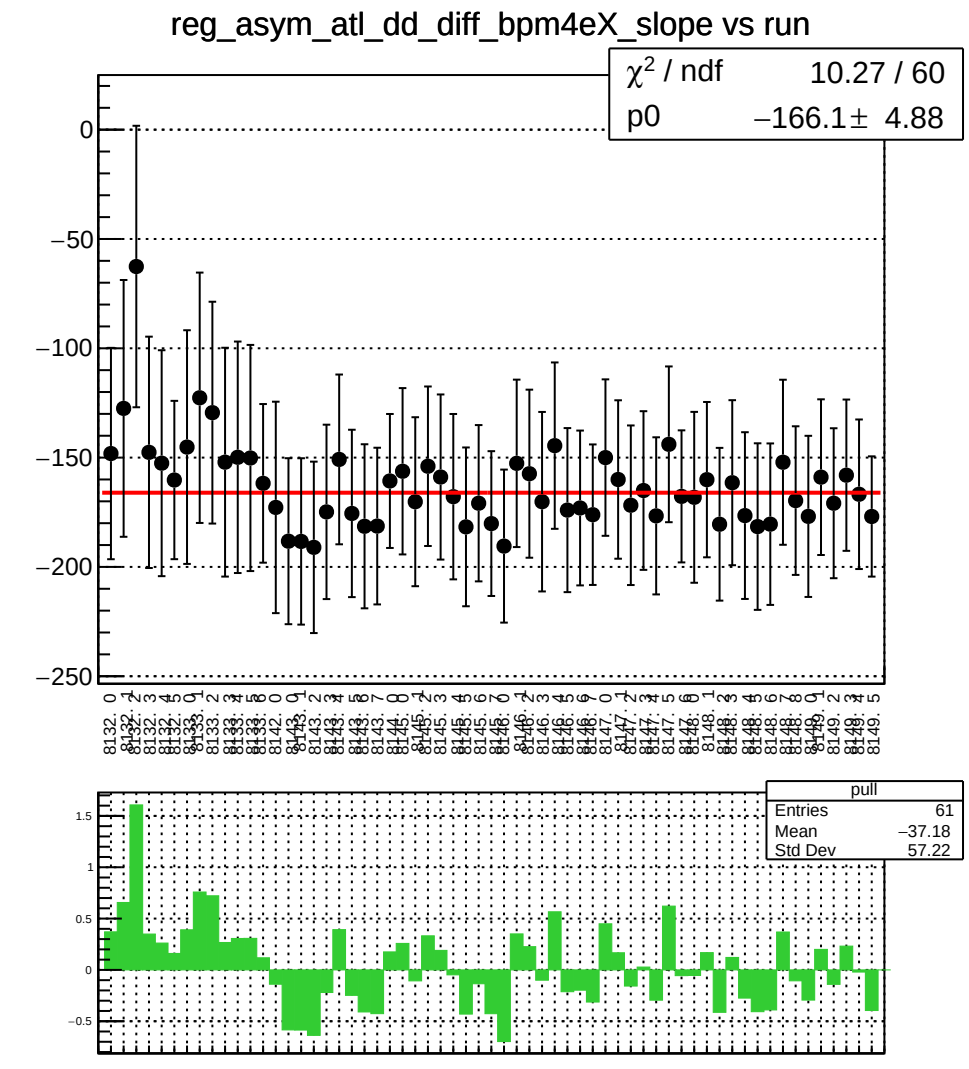

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 5211 / 60
p0 −114.1 ± 0.3996
pull
Entries 61
Mean 71.75
Std Dev 42.76
pull1D
Entries 61
Mean −6.963
Std Dev 0.5992

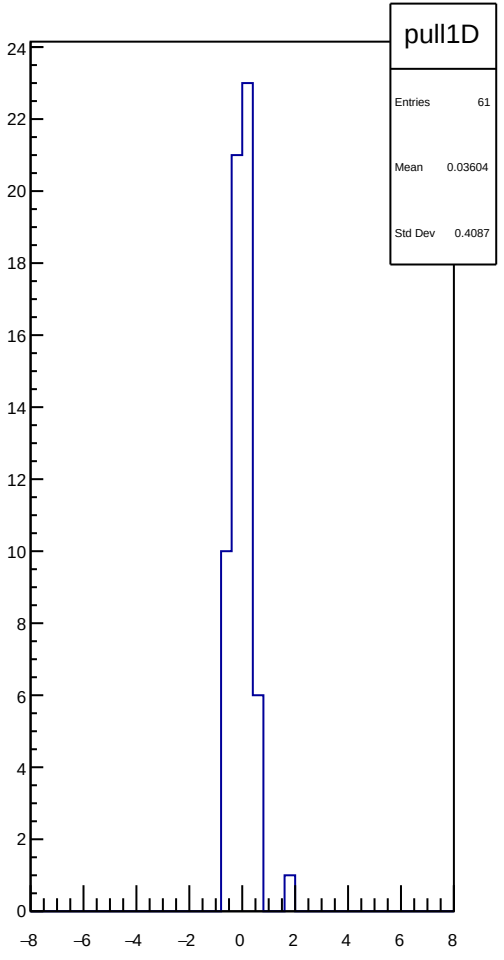

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 13.09 / 60
p0 246.3 ± 4.865
300
250
200
150
100
50
pull
Entries 61
Mean −32.44
Std Dev 52.72
0.5
0
−0.5
−1
−1.5

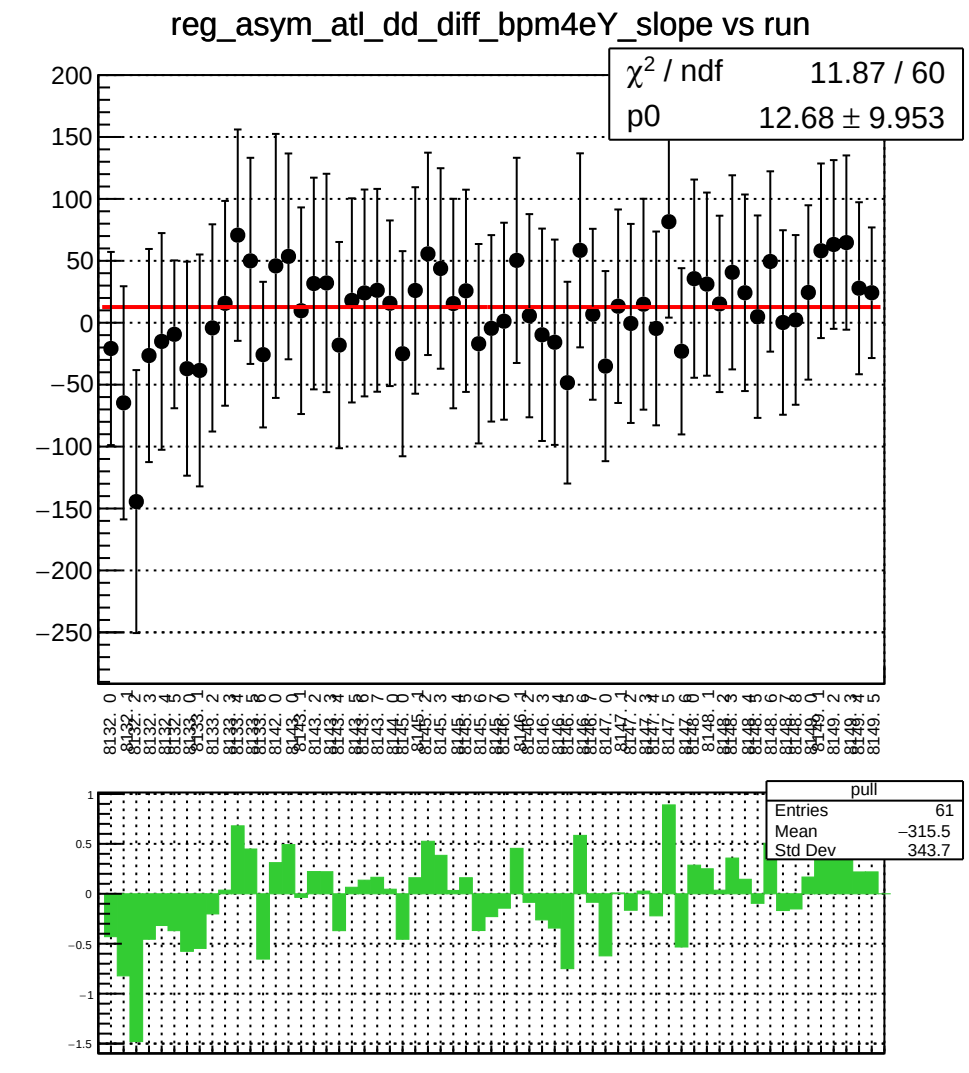

pull1D
Entries 61
Mean −0.05086
Std Dev 0.4605
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

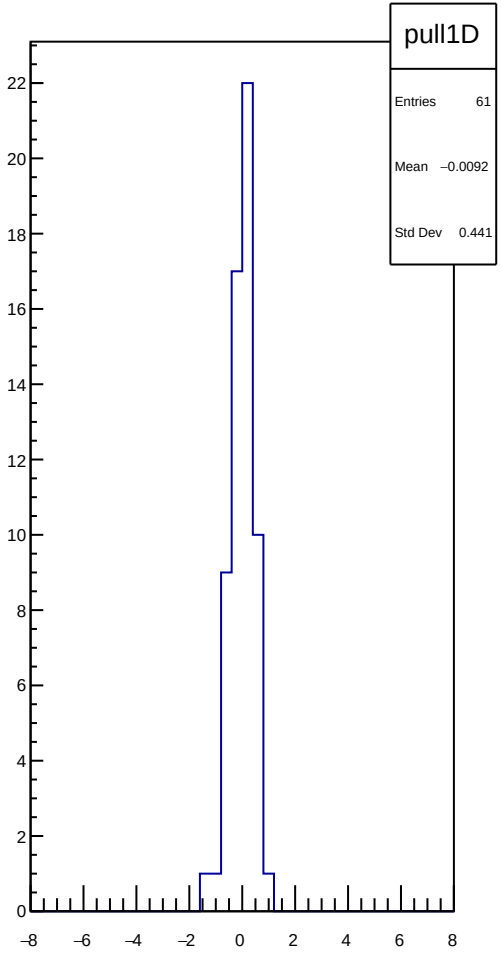

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.81 / 60
p0 −74.31 ± 9.303
pull
Entries 61
Mean −467.8
Std Dev 496.2

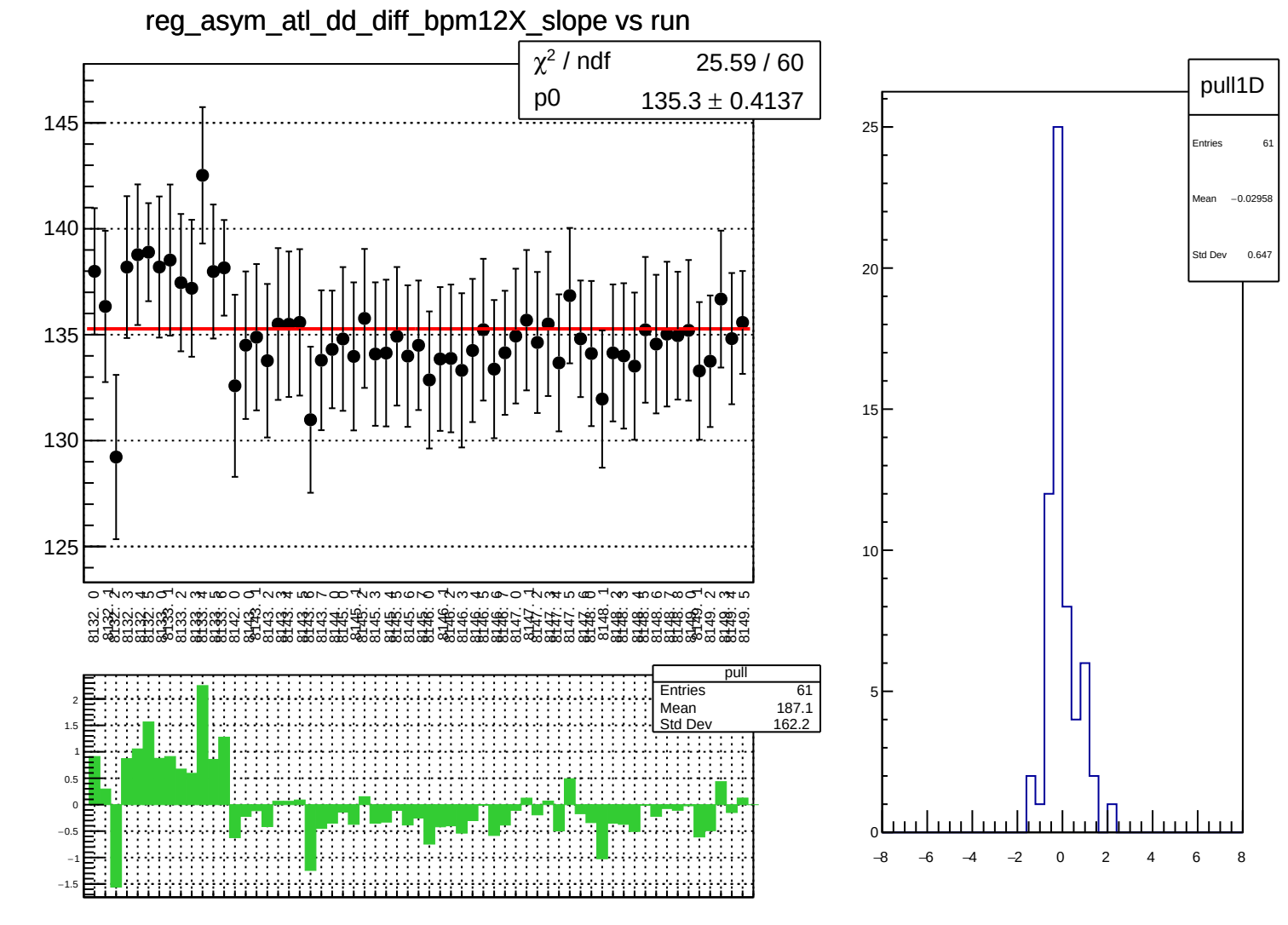

pull1D
Entries 61
Mean 0.006626
Std Dev 0.44

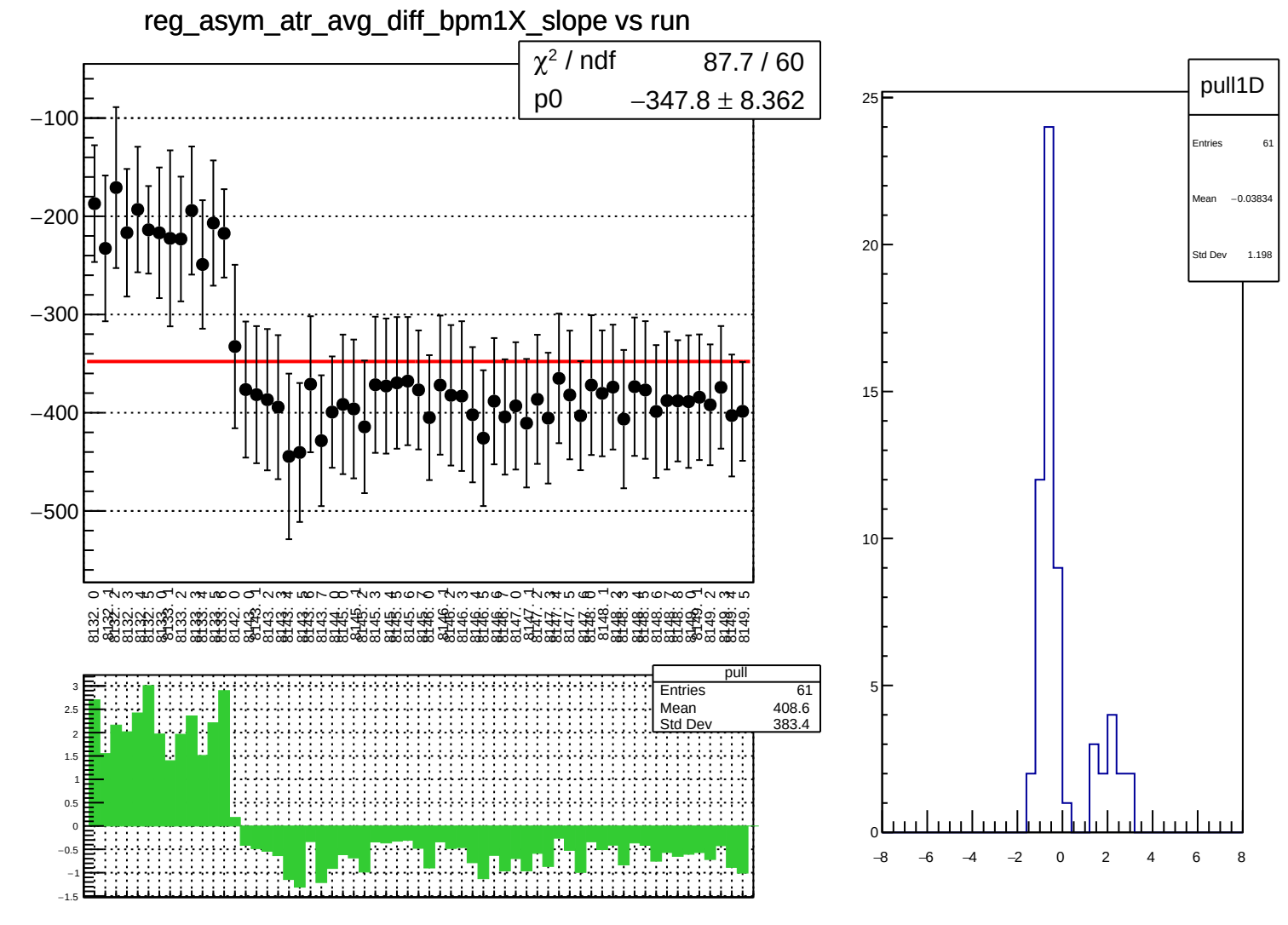

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.27 / 60
p0 −166.1± 4.88
pull
Entries 61
Mean −37.18
Std Dev 57.22

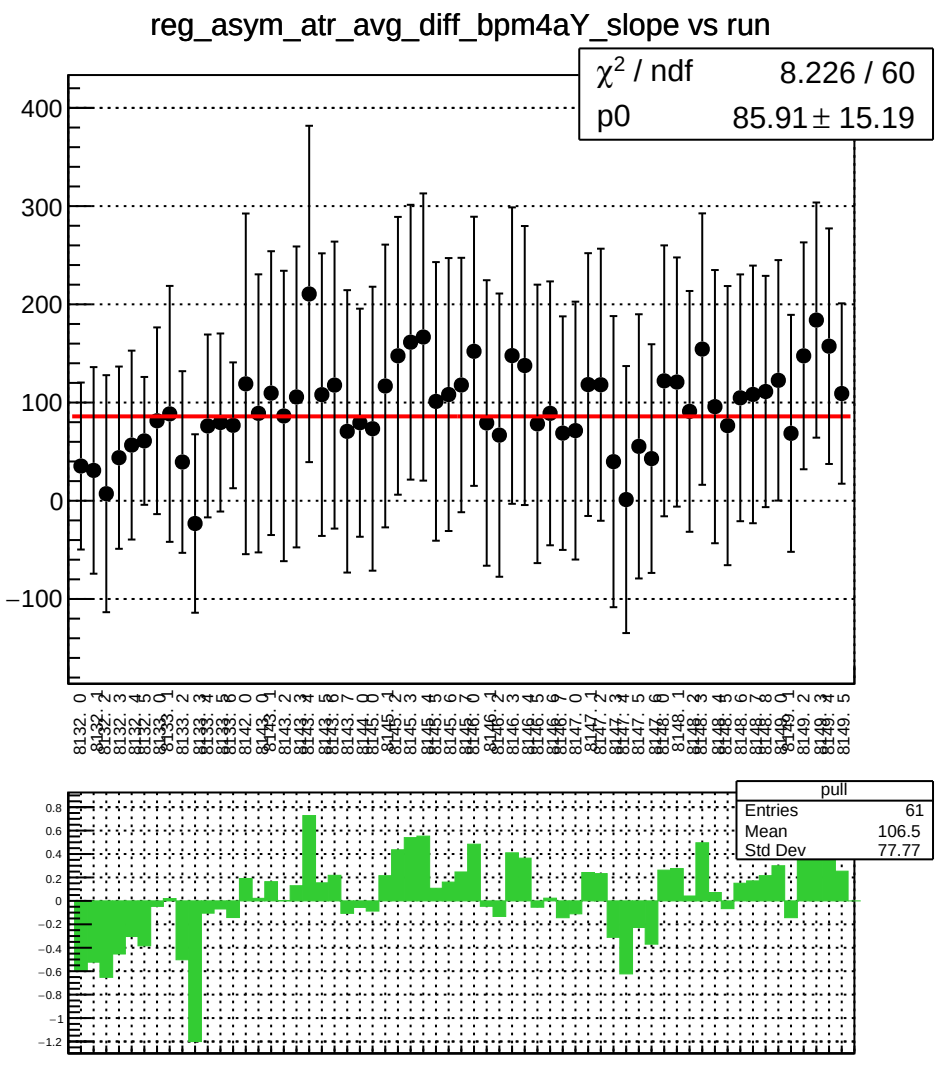

pull1D
Entries 61
Mean 0.03604
Std Dev 0.4087

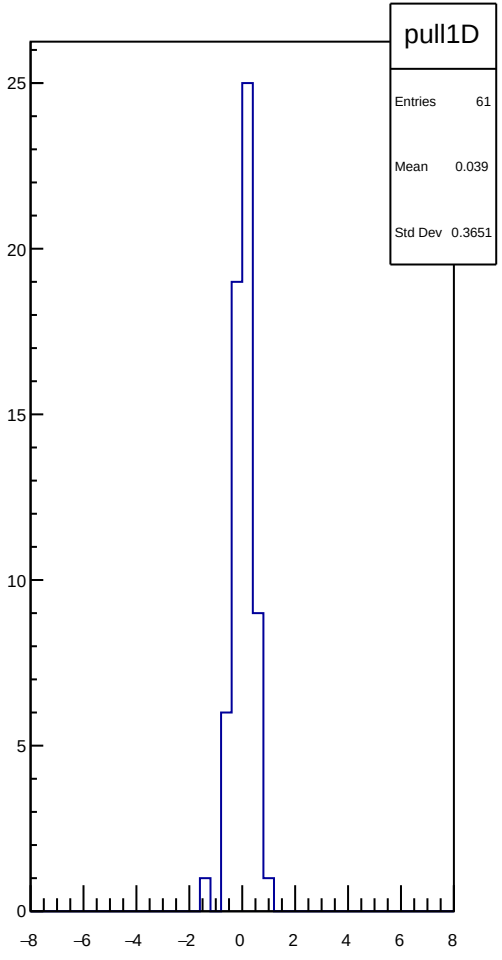

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.87 / 60
p0 12.68 ± 9.953
pull
Entries 61
Mean −315.5
Std Dev 343.7

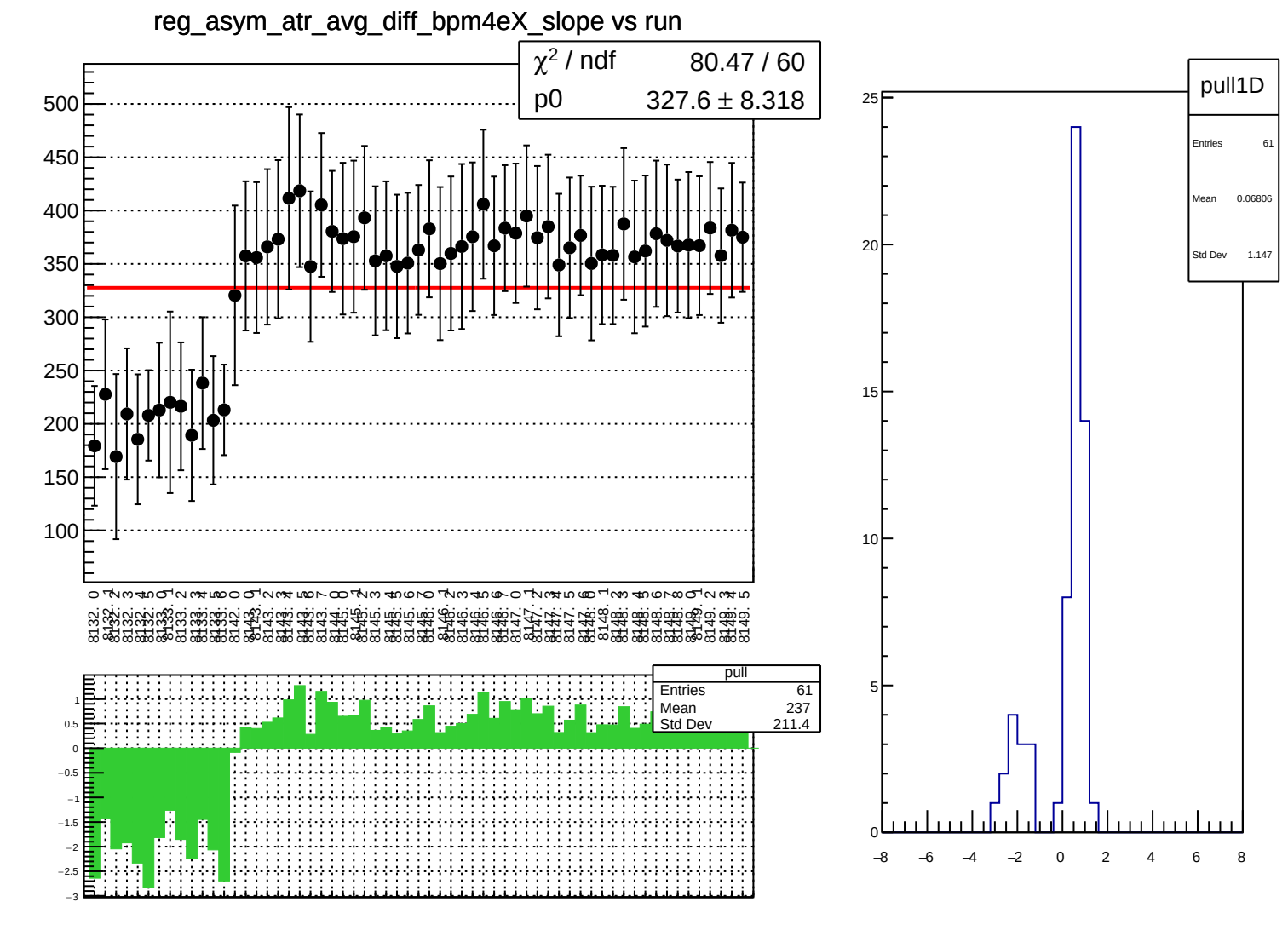

pull1D
Entries 61
Mean −0.0092
Std Dev 0.441

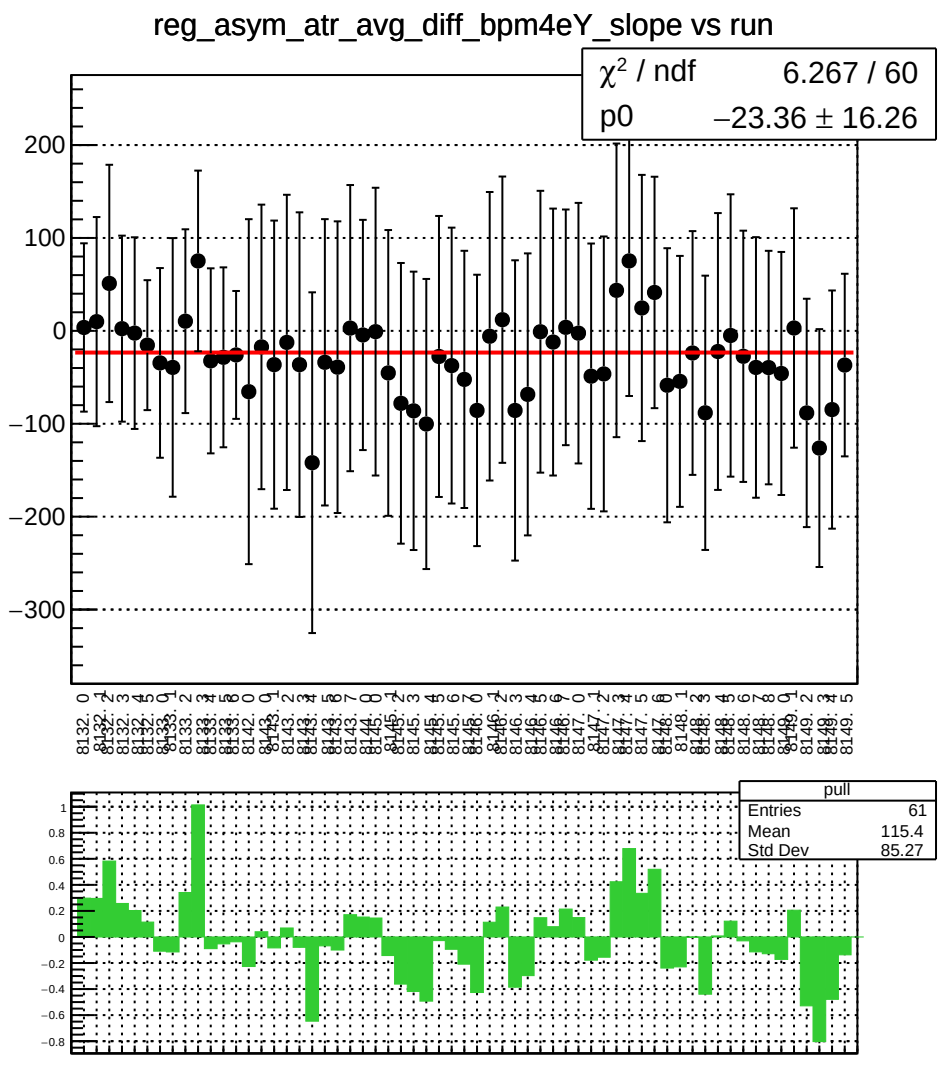

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 25.59 / 60
p0 135.3 ± 0.4137
pull
Entries 61
Mean 187.1
Std Dev 162.2
pull1D
Entries 61
Mean −0.02958
Std Dev 0.647

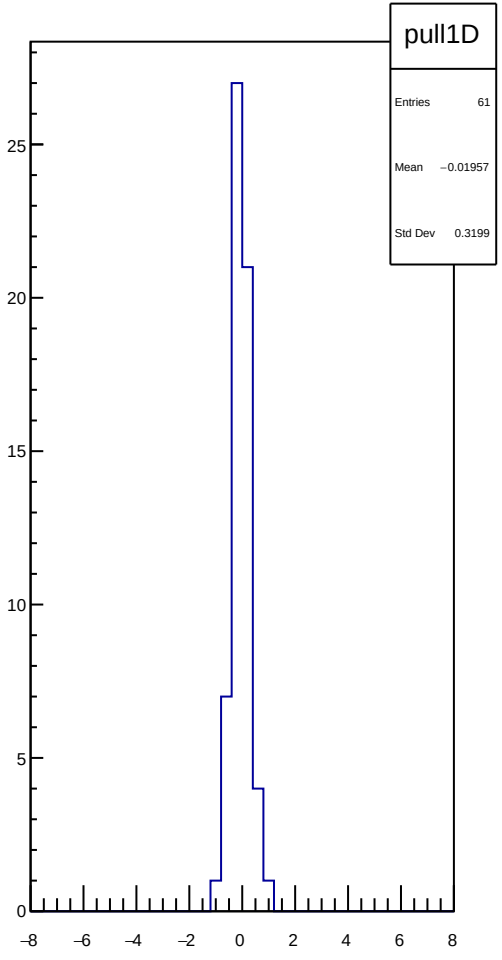

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 87.7 / 60
p0 −347.8 ± 8.362
pull
Entries 61
Mean 408.6
Std Dev 383.4
pull1D
Entries 61
Mean −0.03834
Std Dev 1.198

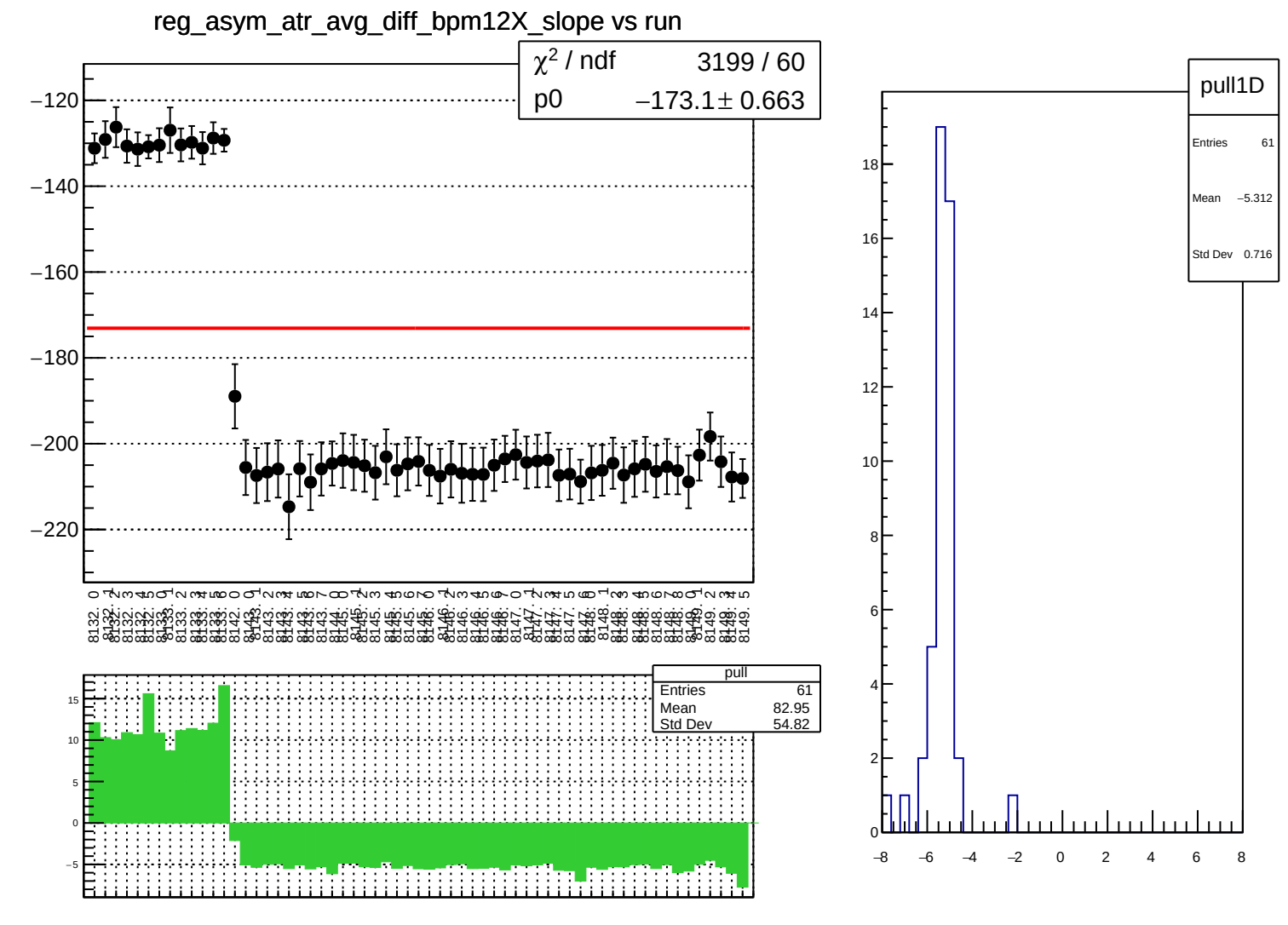

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.226 / 60
p0 85.91 ± 15.19
pull
Entries 61
Mean 106.5
Std Dev 77.77

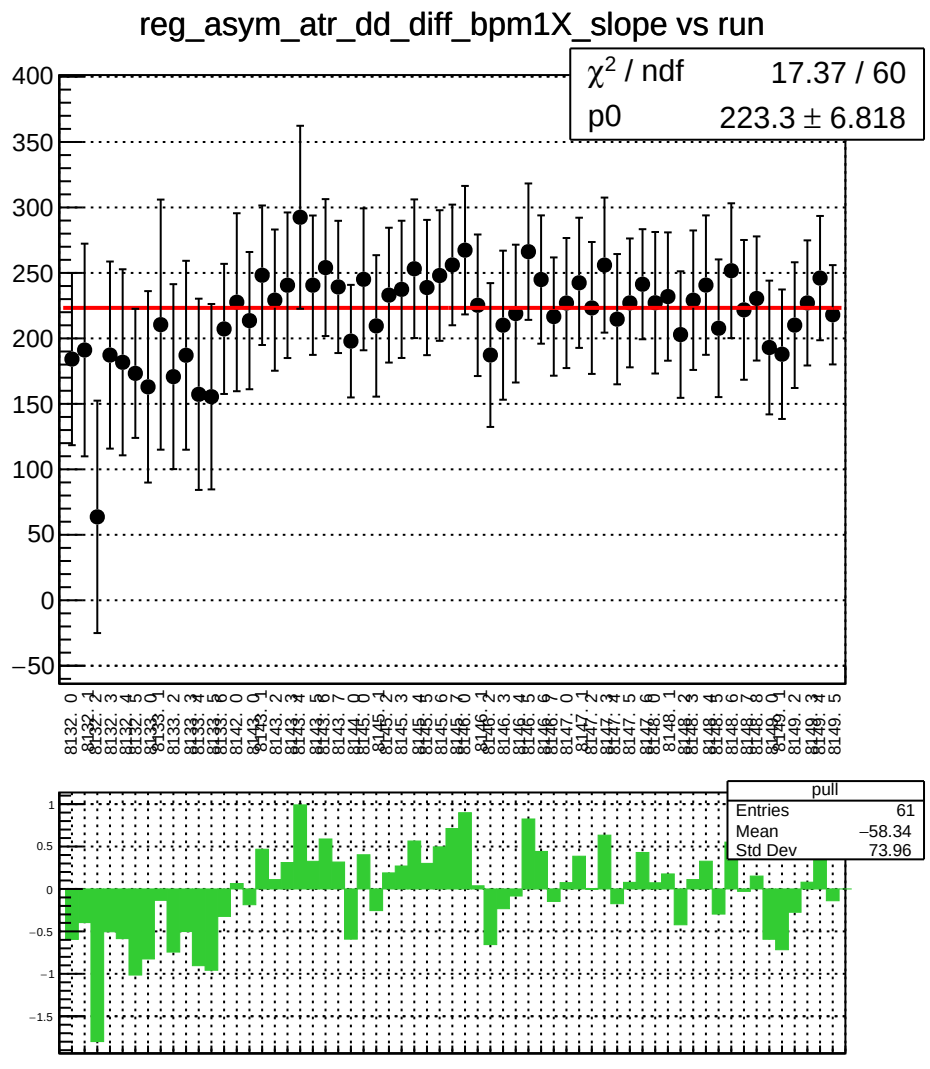

pull1D
Entries 61
Mean 0.039
Std Dev 0.3651

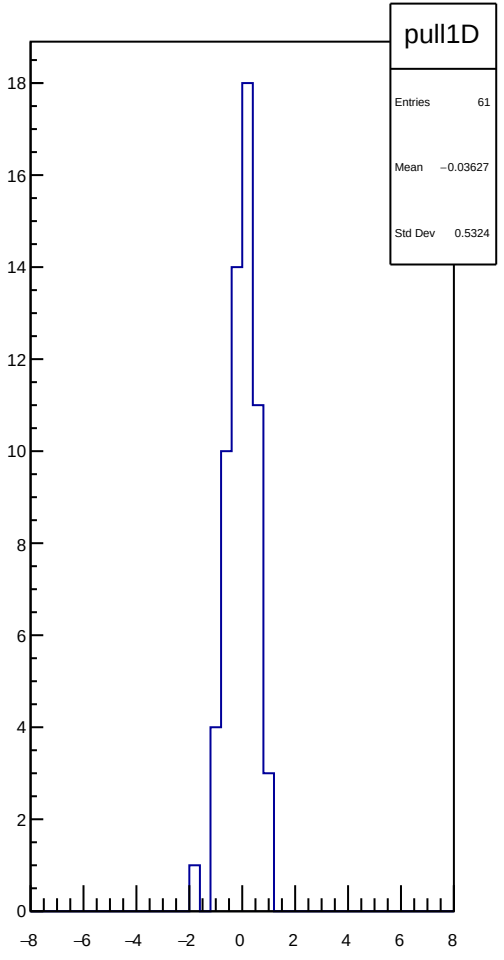

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.47 / 60
p0 327.6 ± 8.318
pull
Entries 61
Mean 237
Std Dev 211.4
pull1D
Entries 61
Mean 0.06806
Std Dev 1.147

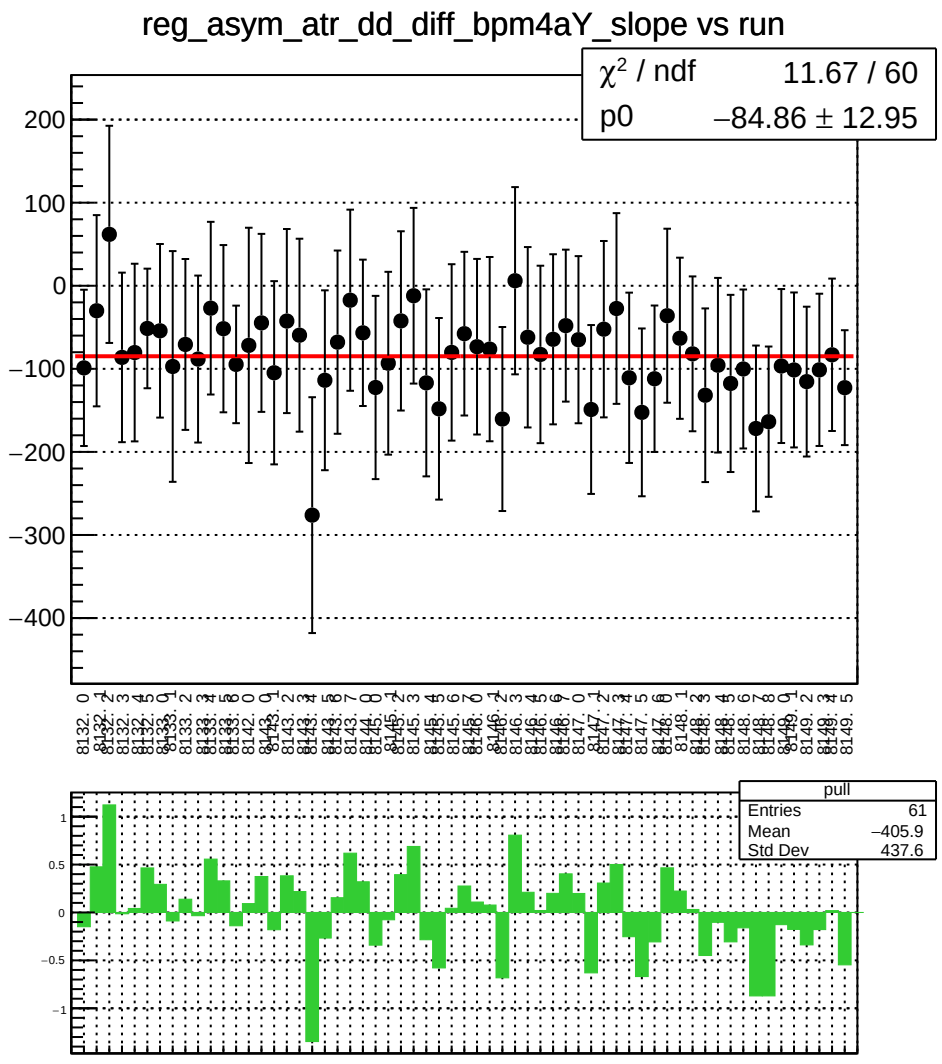

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.267 / 60
p0 −23.36 ± 16.26
pull
Entries 61
Mean 115.4
Std Dev 85.27

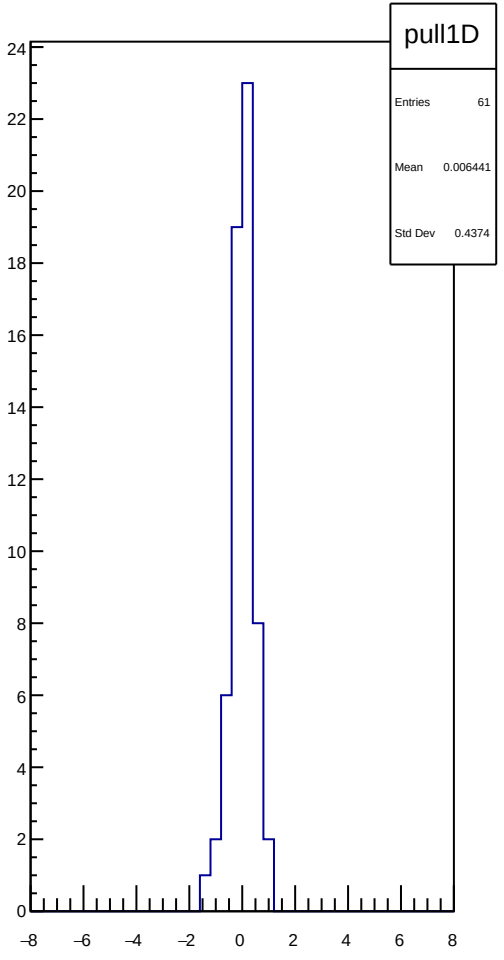

pull1D
Entries 61
Mean −0.01957
Std Dev 0.3199

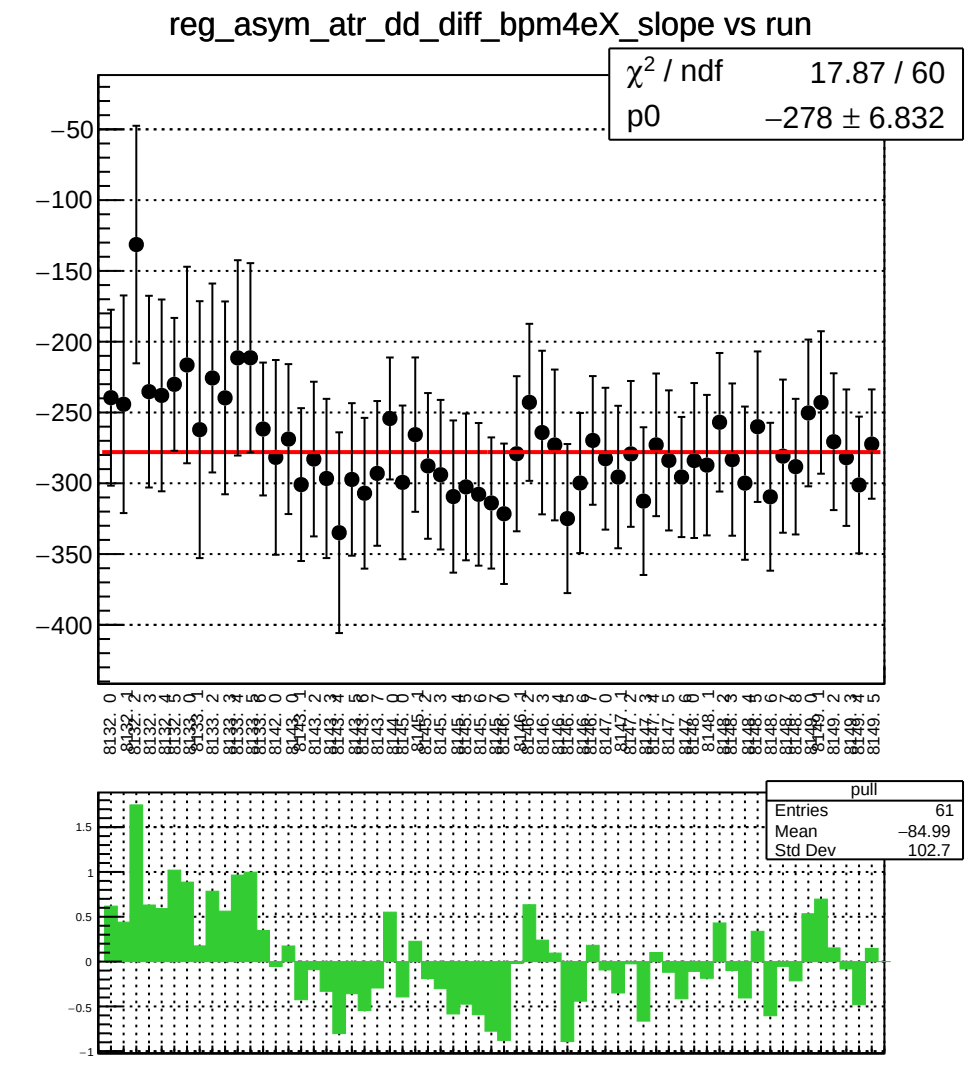

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 3199 / 60
p0 −173.1 ± 0.663
pull
Entries 61
Mean 82.95
Std Dev 54.82
pull1D
Entries 61
Mean −5.312
Std Dev 0.716

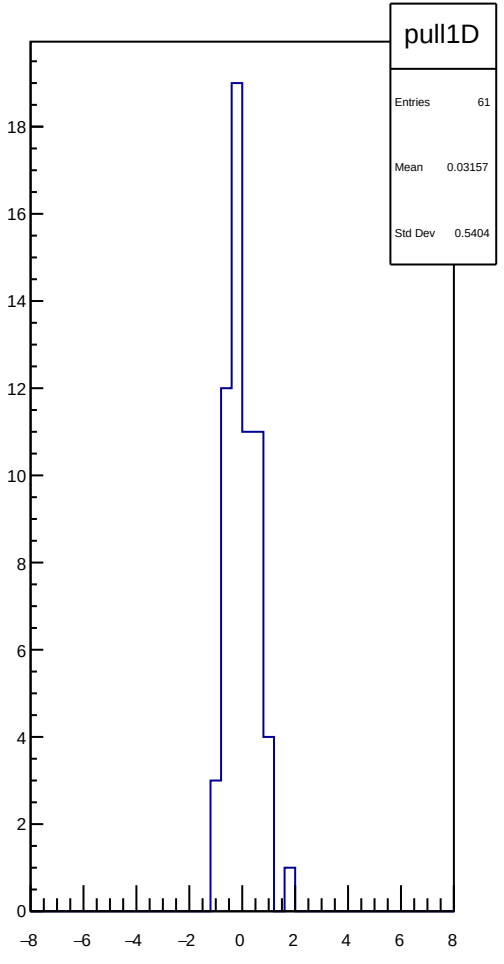

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 17.37 / 60
p0 223.3 ± 6.818
pull
Entries 61
Mean −58.34
Std Dev 73.96

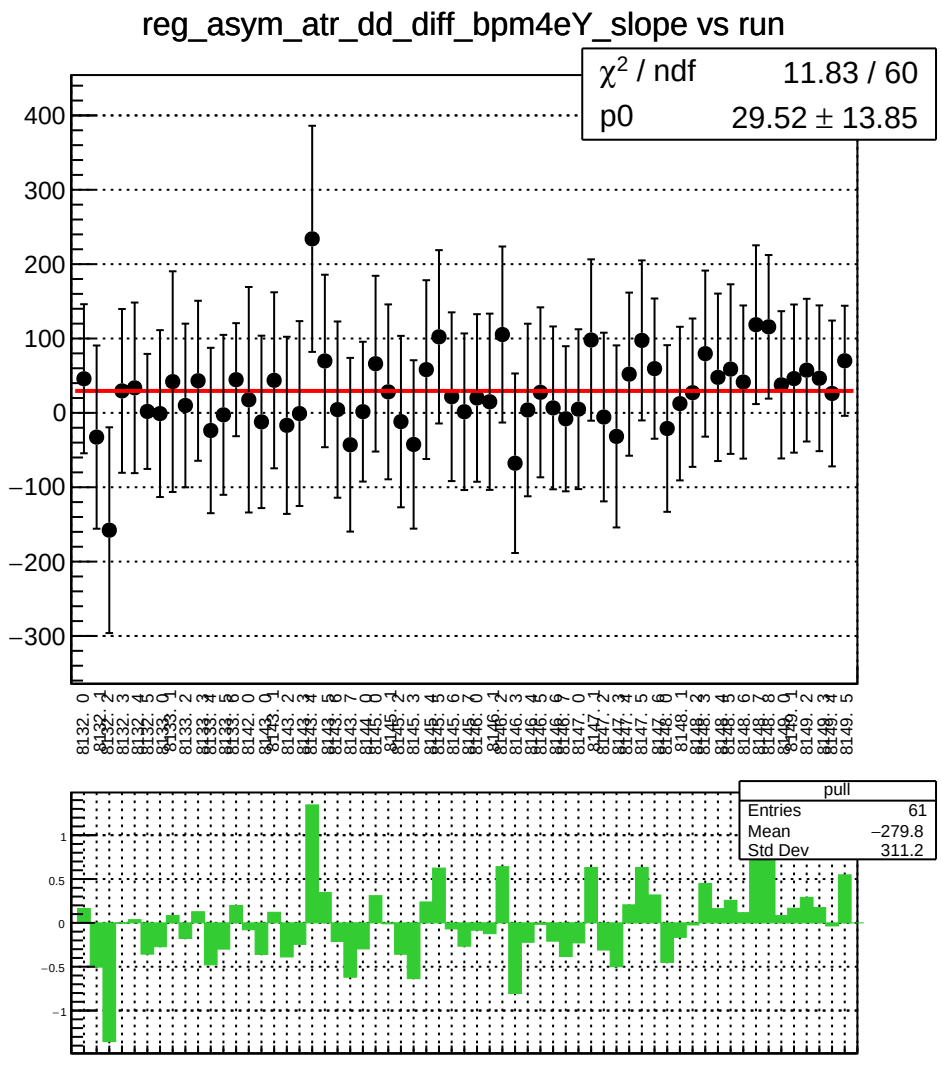

pull1D
Entries 61
Mean −0.03627
Std Dev 0.5324

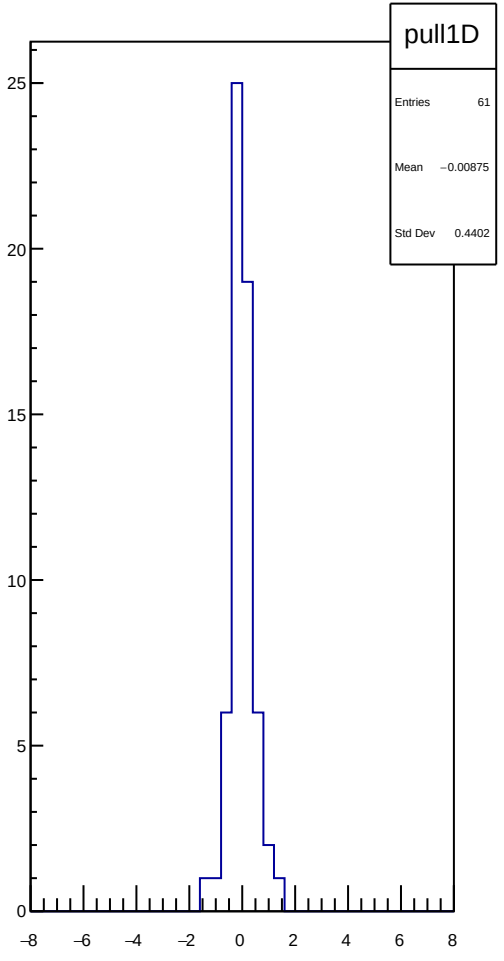

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.67 / 60
p0 −84.86 ± 12.95
pull
Entries 61
Mean −405.9
Std Dev 437.6

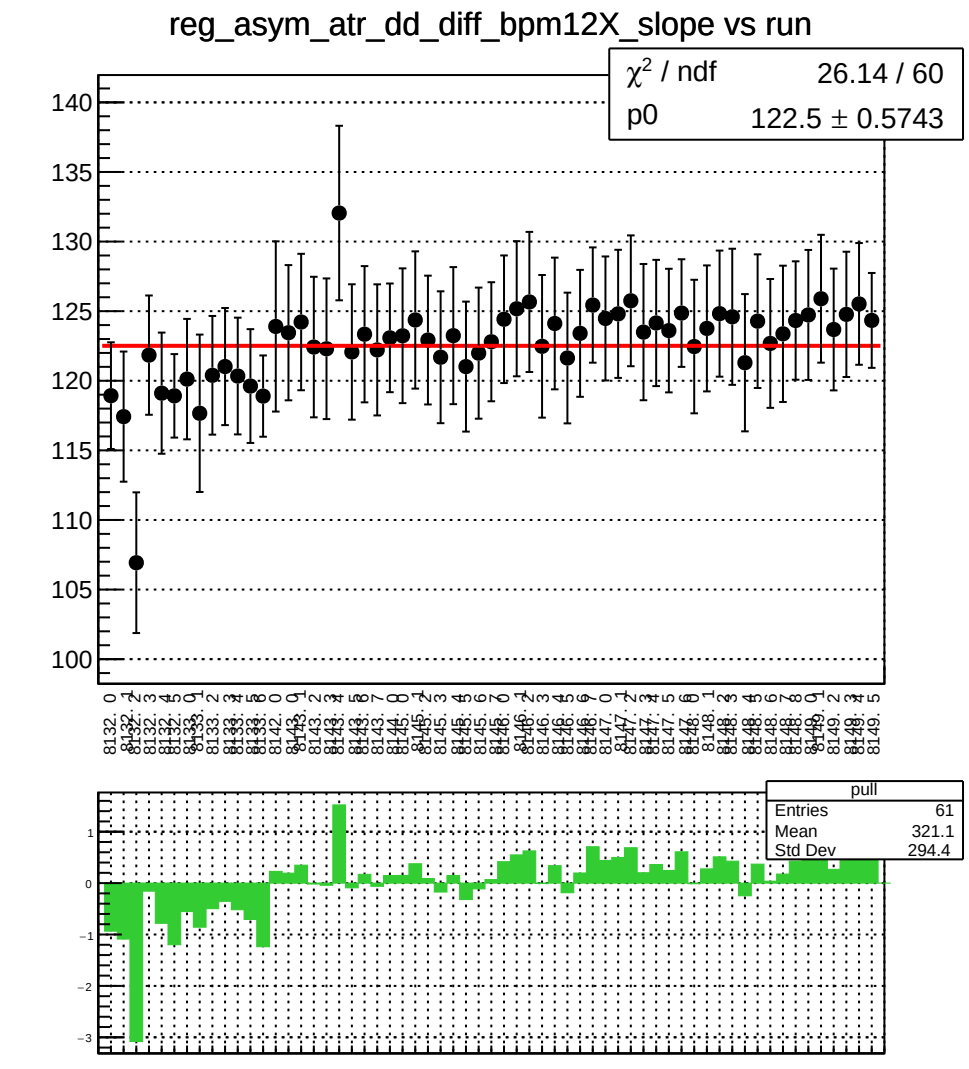

pull1D
Entries 61
Mean 0.006441
Std Dev 0.4374

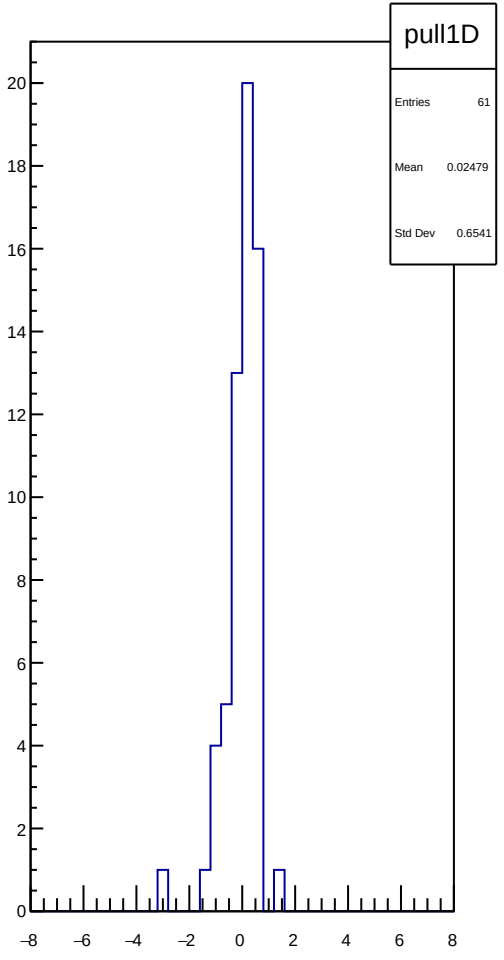

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.87 / 60
p0 −278 ± 6.832
pull
Entries 61
Mean −84.99
Std Dev 102.7

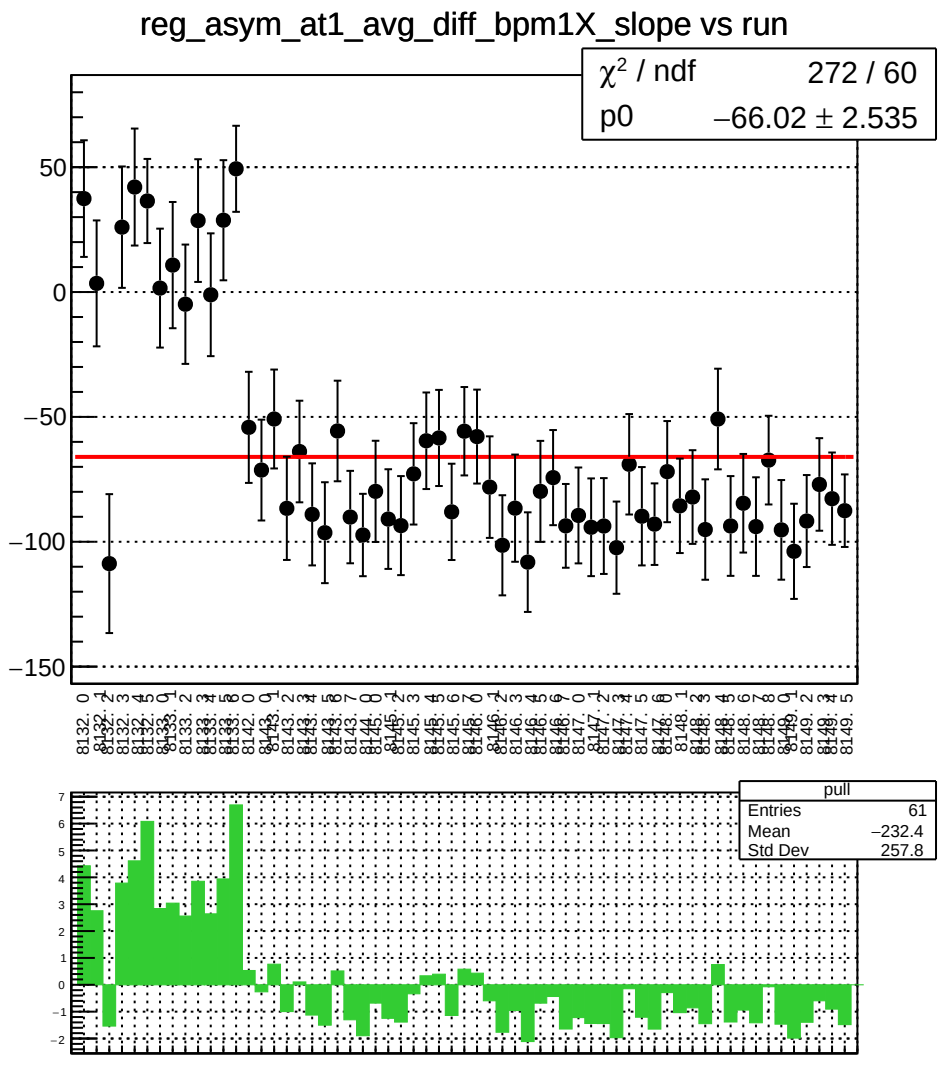

pull1D
Entries 61
Mean 0.03157
Std Dev 0.5404

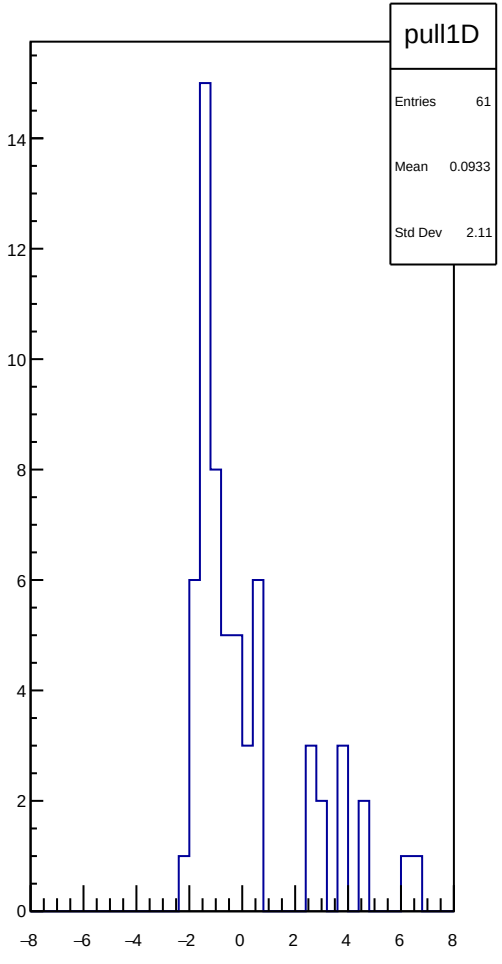

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.83 / 60
p0 29.52 ± 13.85
pull
Entries 61
Mean −279.8
Std Dev 311.2

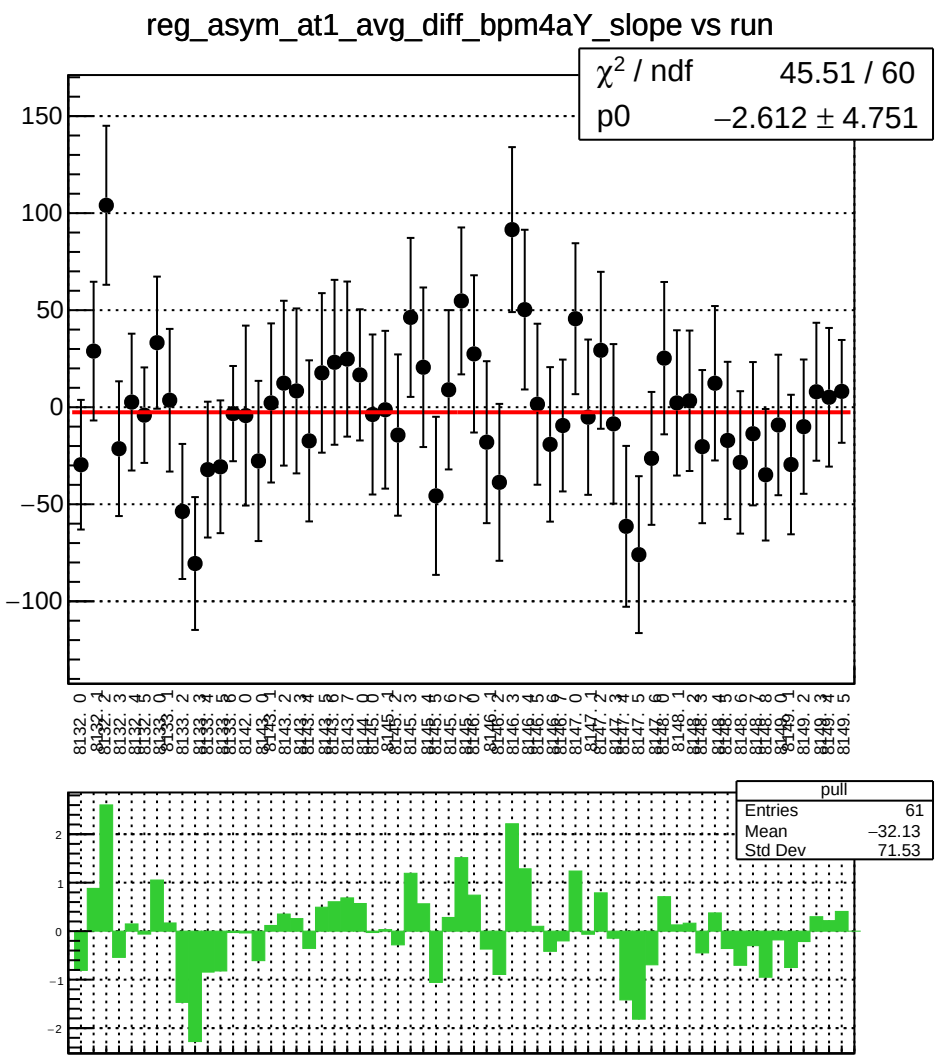

pull1D
Entries 61
Mean −0.00875
Std Dev 0.4402

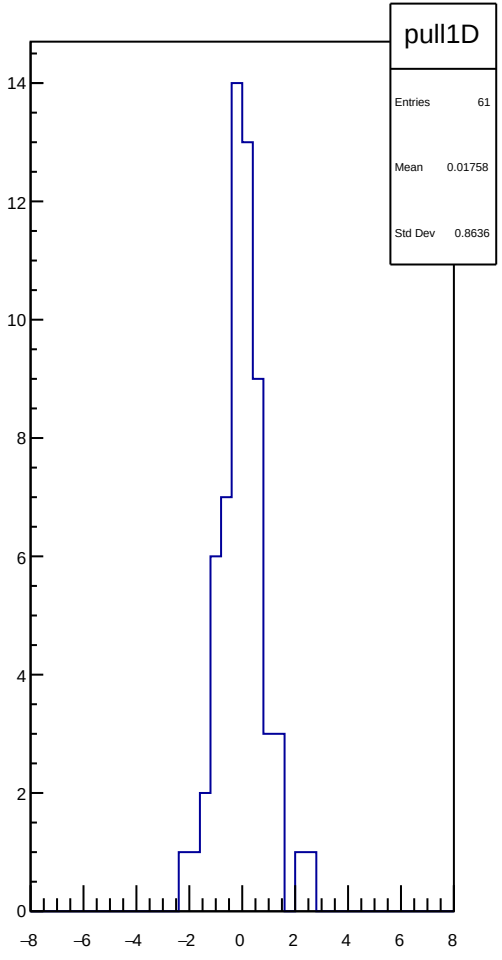

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 26.14 / 60
p0 122.5 ± 0.5743
pull
Entries 61
Mean 321.1
Std Dev 294.4

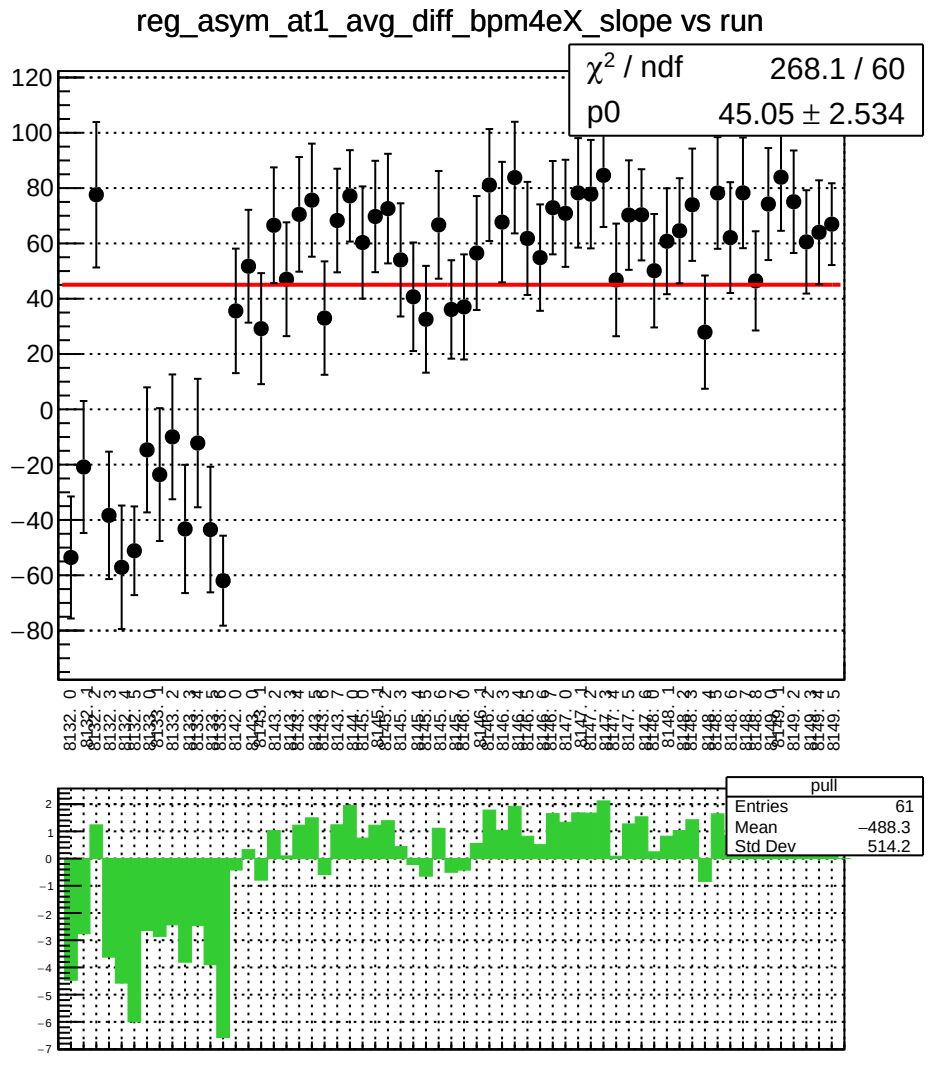

pull1D
Entries 61
Mean 0.02479
Std Dev 0.6541

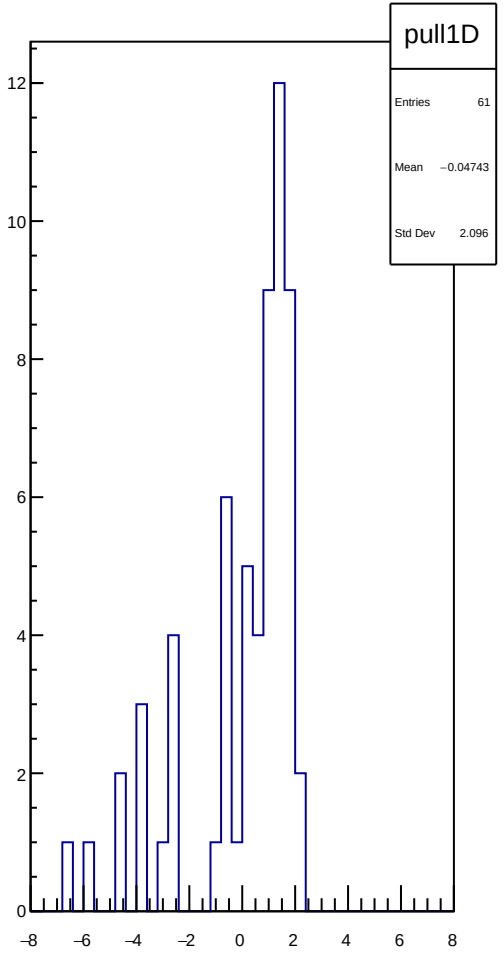

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 272 / 60
p0 −66.02 ± 2.535
pull
Entries 61
Mean −232.4
Std Dev 257.8

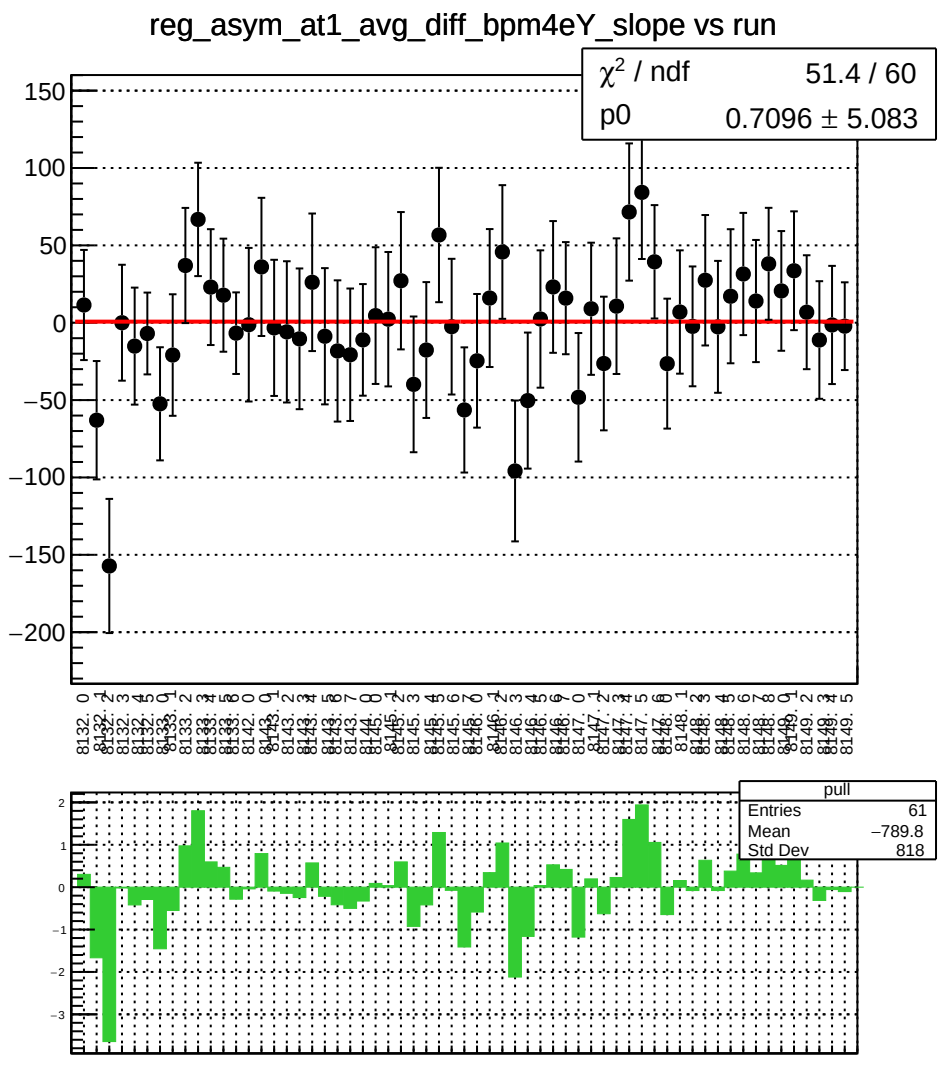

pull1D
Entries 61
Mean 0.0933
Std Dev 2.11

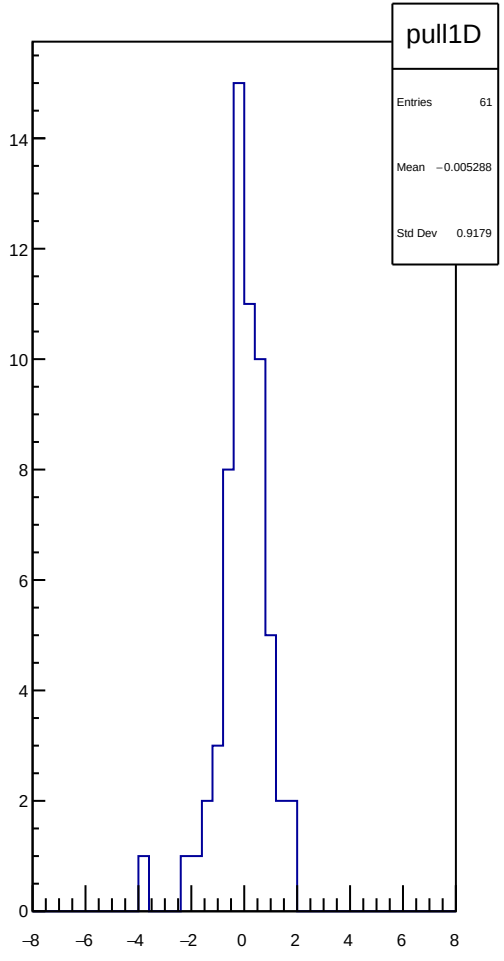

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.51 / 60
p0 −2.612 ± 4.751
150
100
50
0
−50
−100
pull
Entries 61
Mean −32.13
Std Dev 71.53
2
1
0
−1
−2

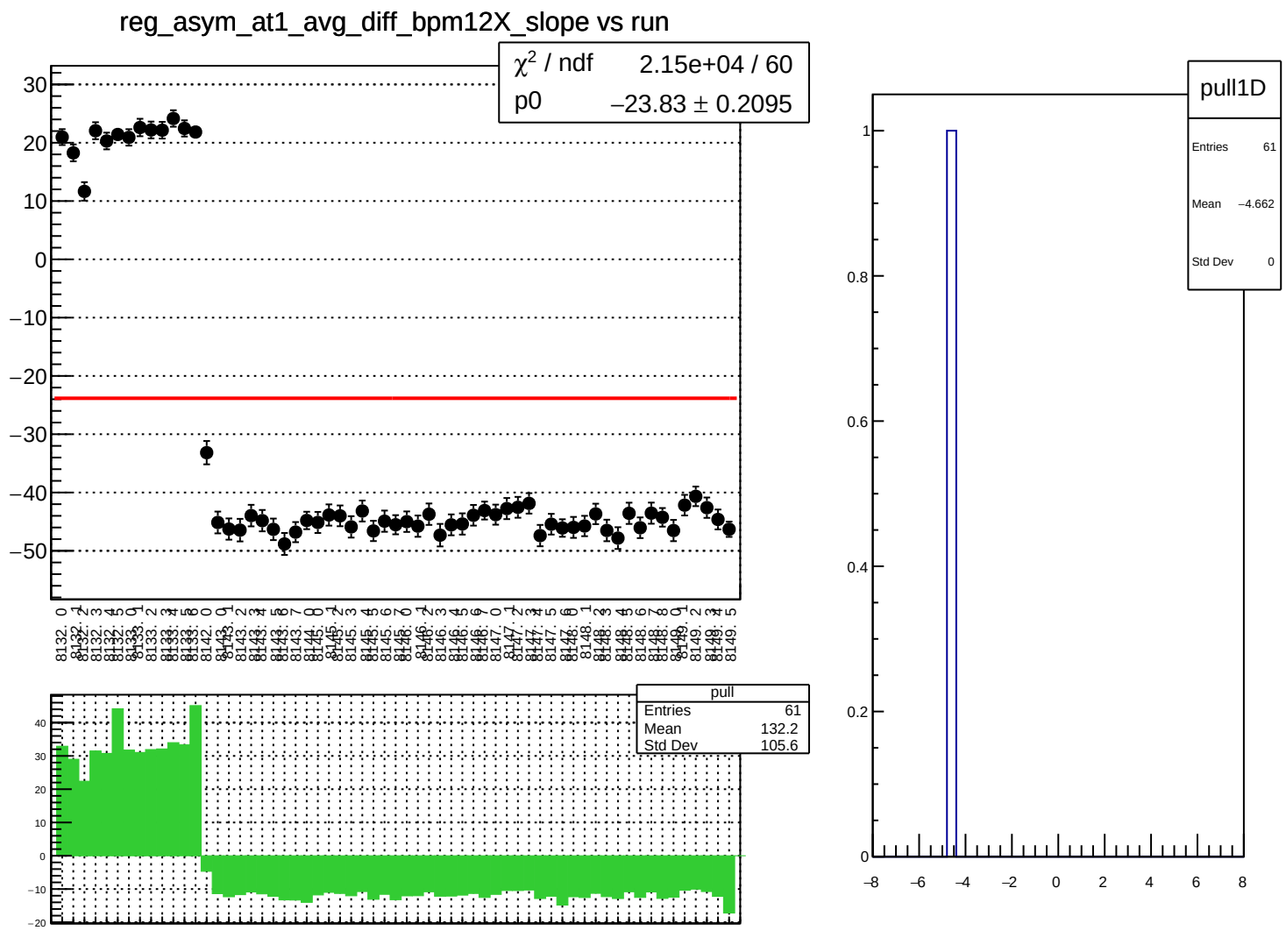

pull1D
Entries 61
Mean 0.01758
Std Dev 0.8636
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

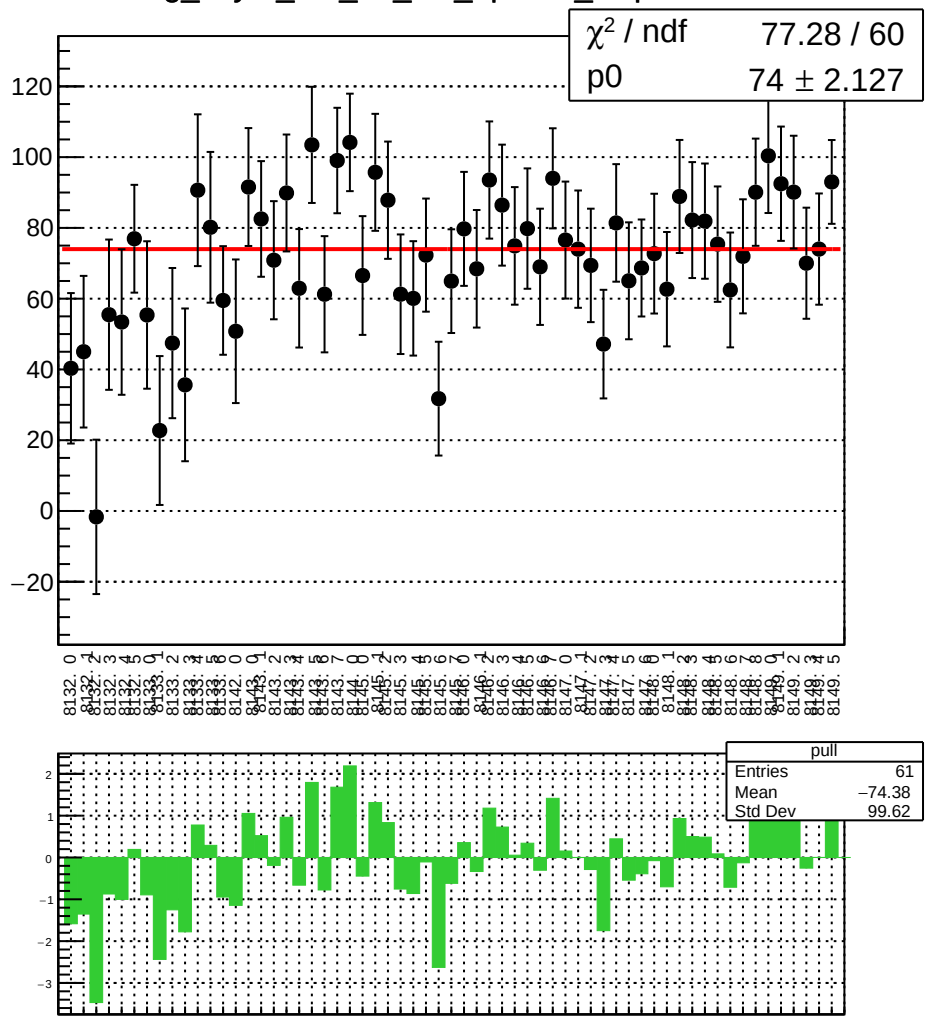

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 268.1 / 60
p0 45.05 ± 2.534
pull
Entries 61
Mean −488.3
Std Dev 514.2

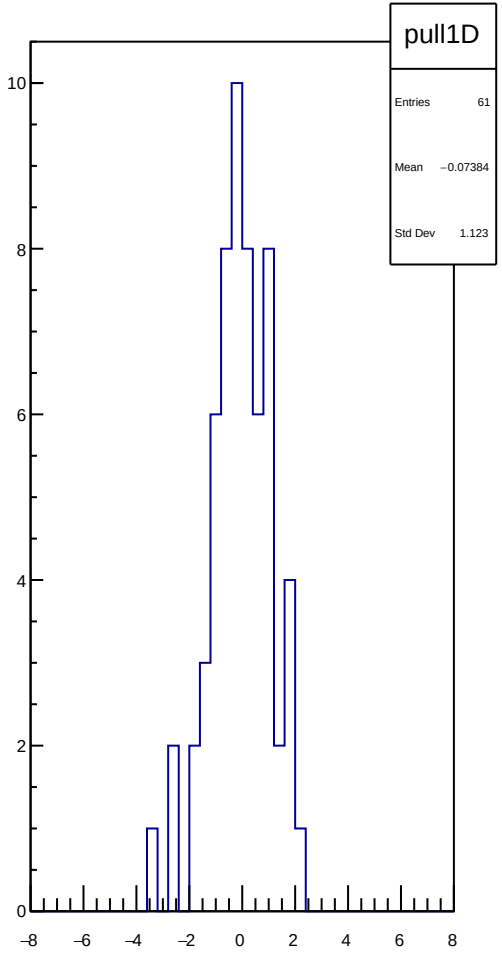

pull1D
Entries 61
Mean −0.04743
Std Dev 2.096

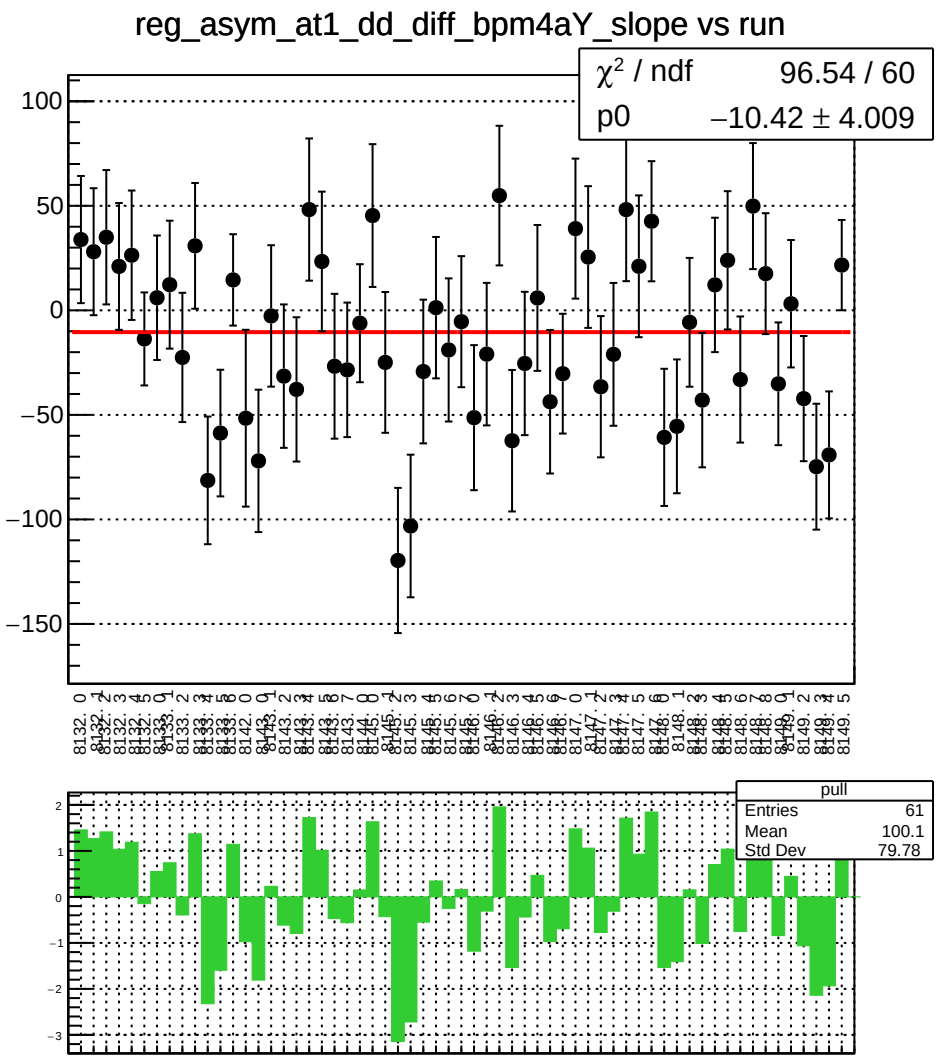

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.4 / 60
p0 0.7096 ± 5.083
pull
Entries 61
Mean −789.8
Std Dev 818

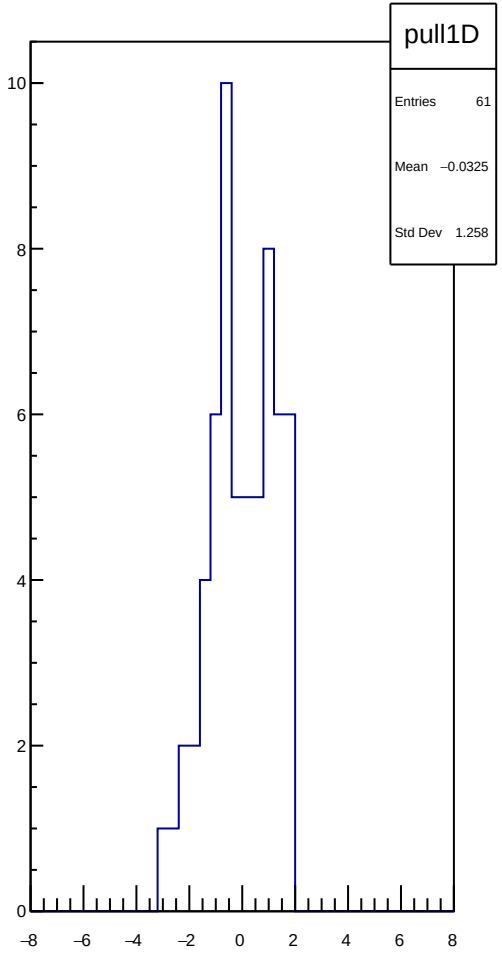

pull1D
Entries 61
Mean −0.005288
Std Dev 0.9179

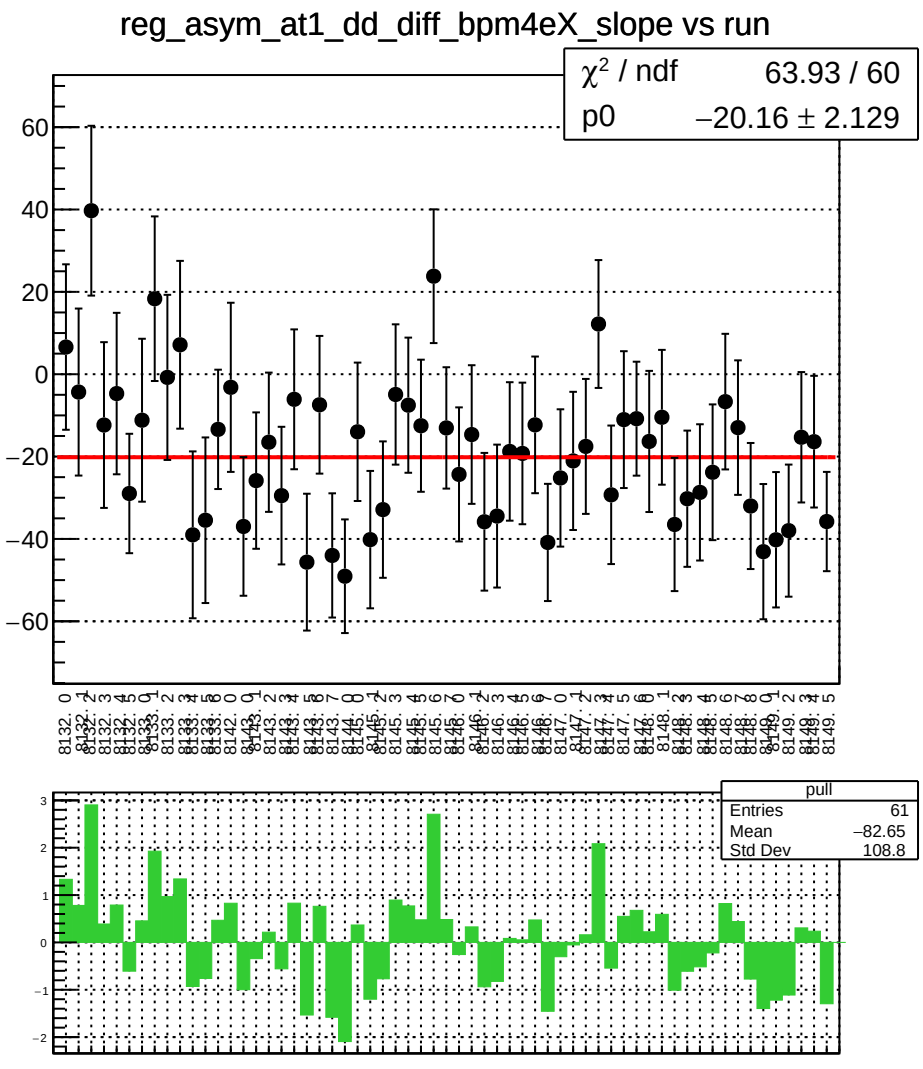

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 2.15e+04 / 60
p0 −23.83 ± 0.2095
pull
Entries 61
Mean 132.2
Std Dev 105.6
pull1D
Entries 61
Mean −4.662
Std Dev 0

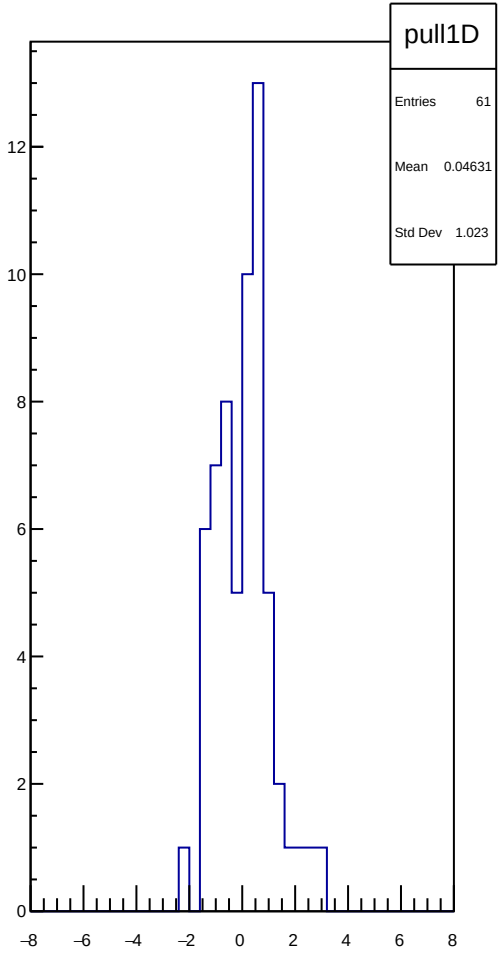

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 77.28 / 60
p0 74 ± 2.127
pull
Entries 61
Mean −74.38
Std Dev 99.62

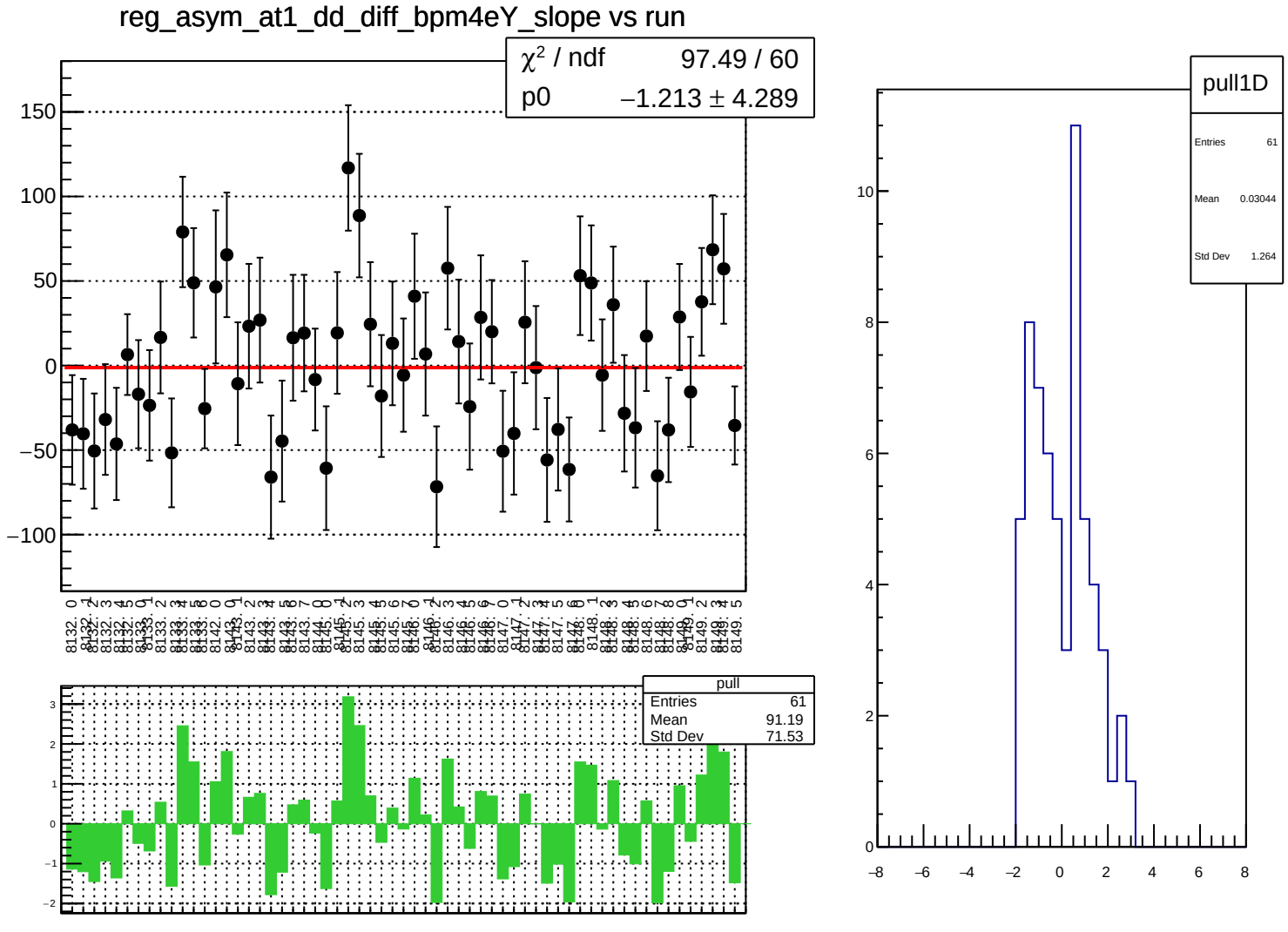

pull1D
Entries 61
Mean −0.07384
Std Dev 1.123

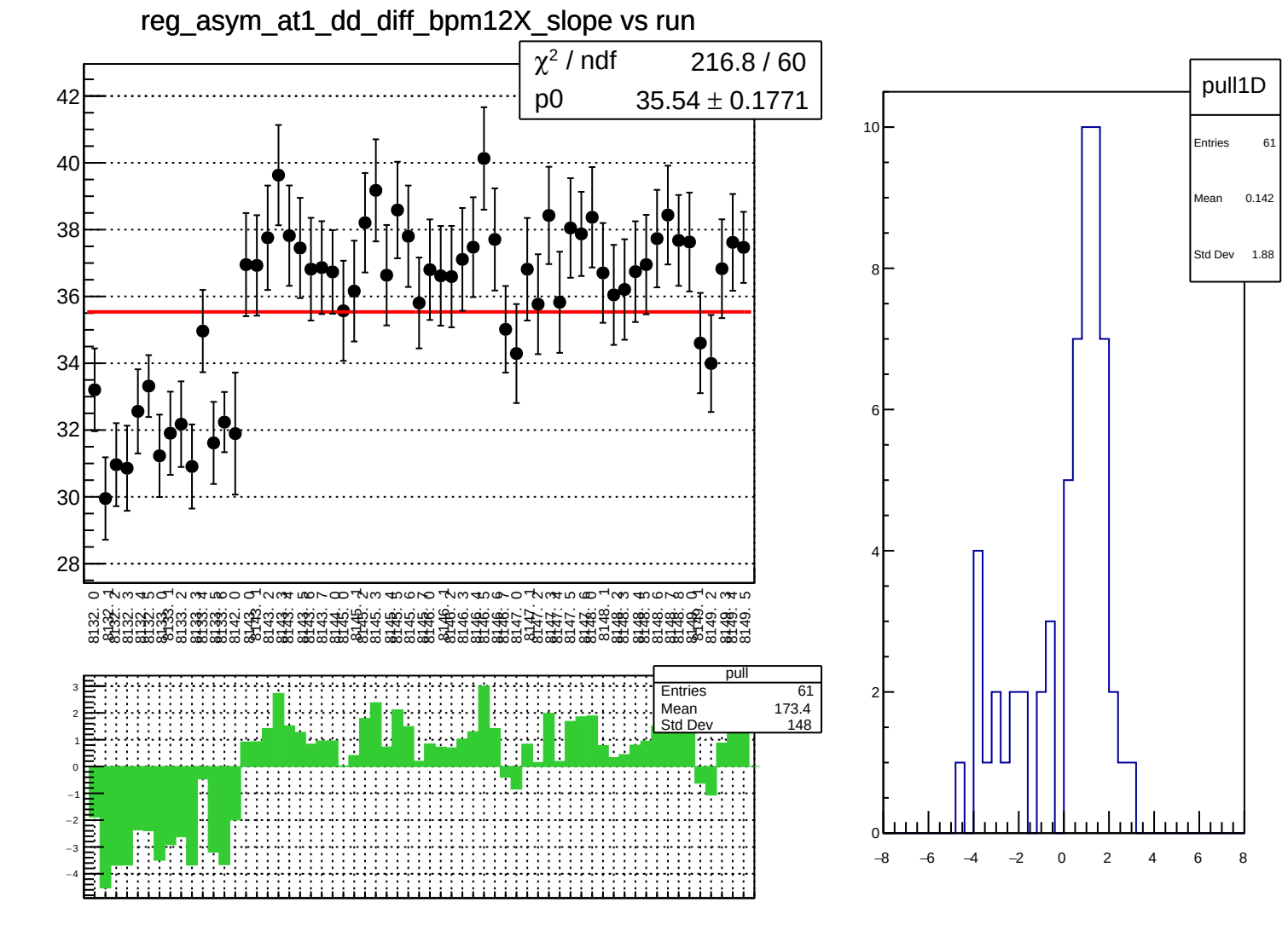

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 96.54 / 60
p0 −10.42 ± 4.009
pull
Entries 61
Mean 100.1
Std Dev 79.78

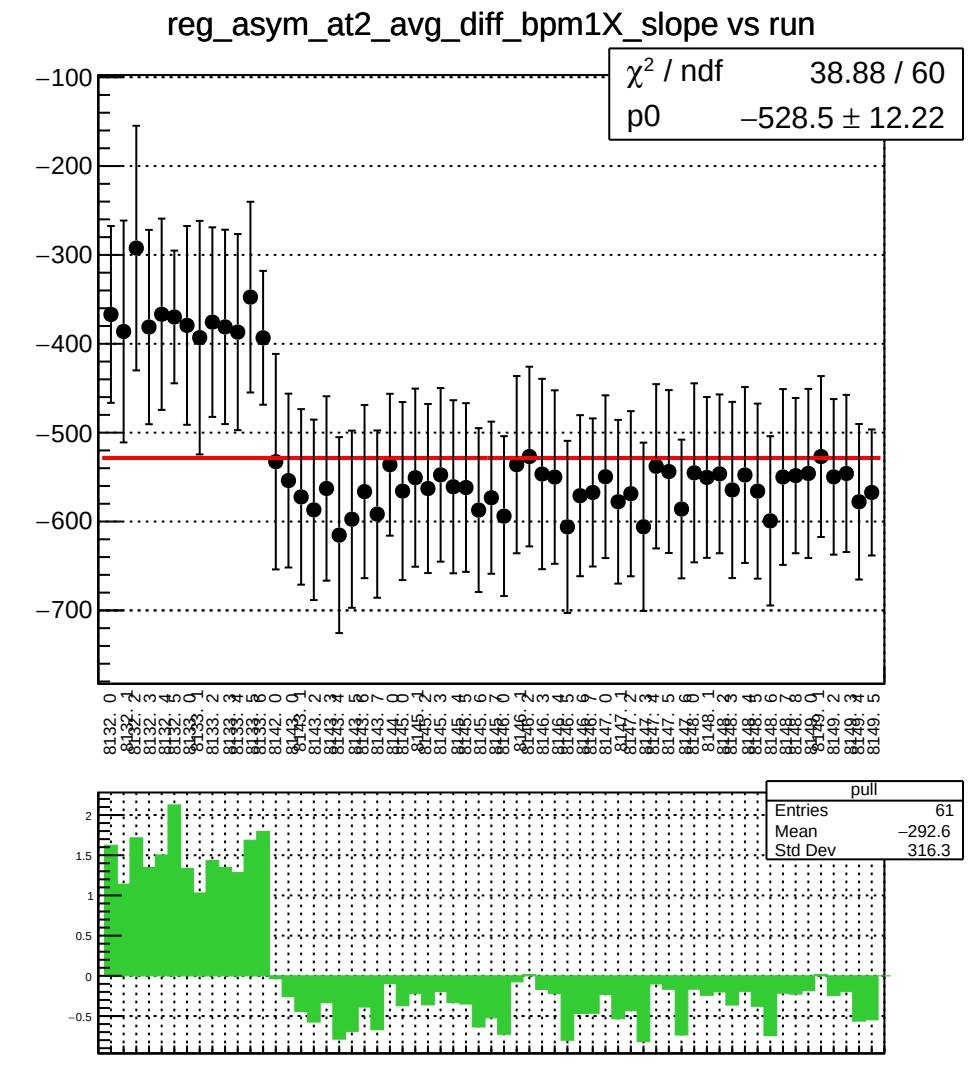

pull1D
Entries 61
Mean −0.0325
Std Dev 1.258

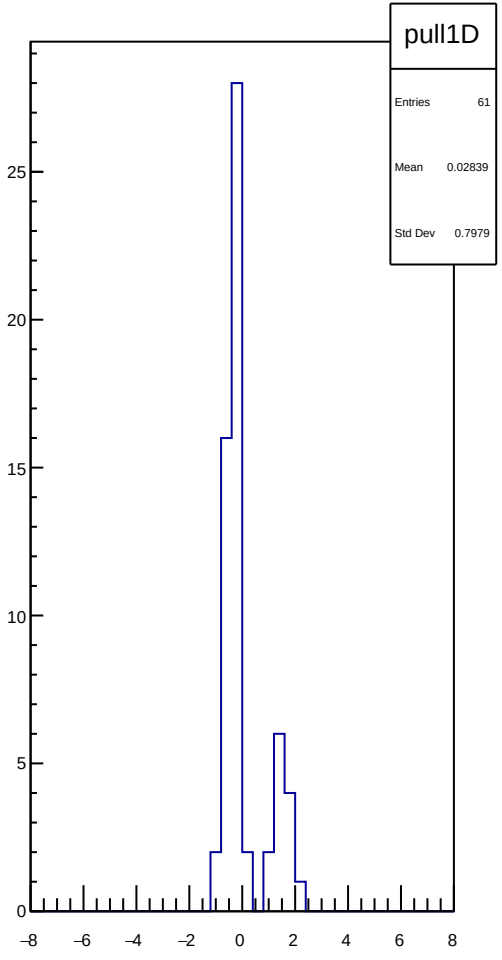

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.93 / 60
p0 −20.16 ± 2.129
pull
Entries 61
Mean −82.65
Std Dev 108.8

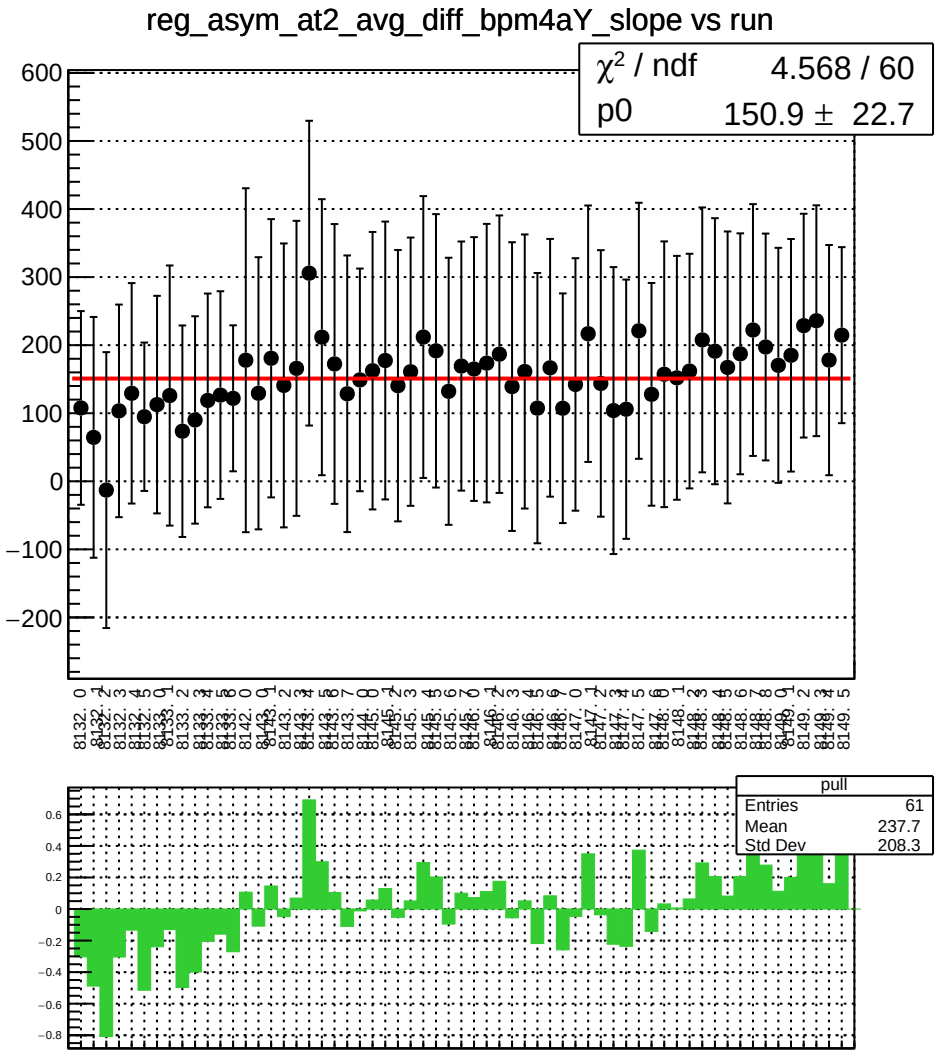

pull1D
Entries 61
Mean 0.04631
Std Dev 1.023

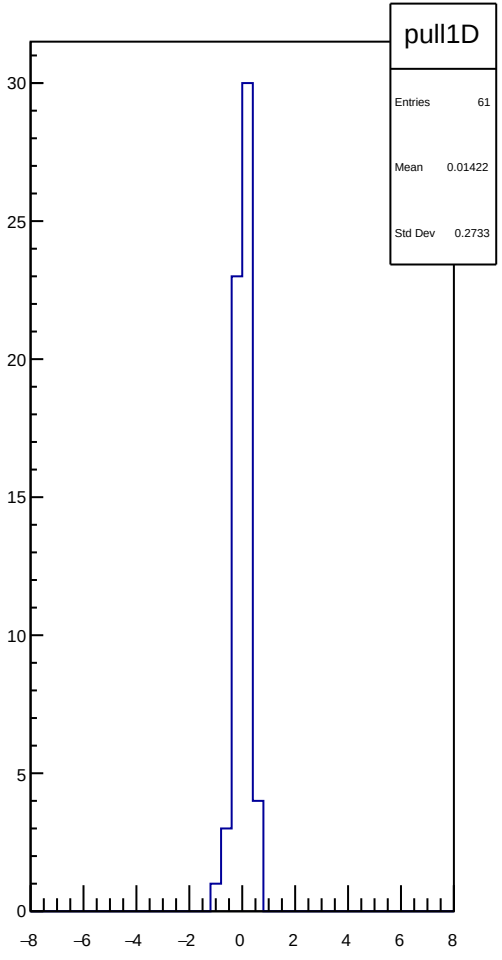

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 97.49 / 60
p0 −1.213 ± 4.289
150
100
50
0
−50
−100
pull
Entries 61
Mean 91.19
Std Dev 71.53
3
2
1
0
−1
−2
pull1D
Entries 61
Mean 0.03044
Std Dev 1.264
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

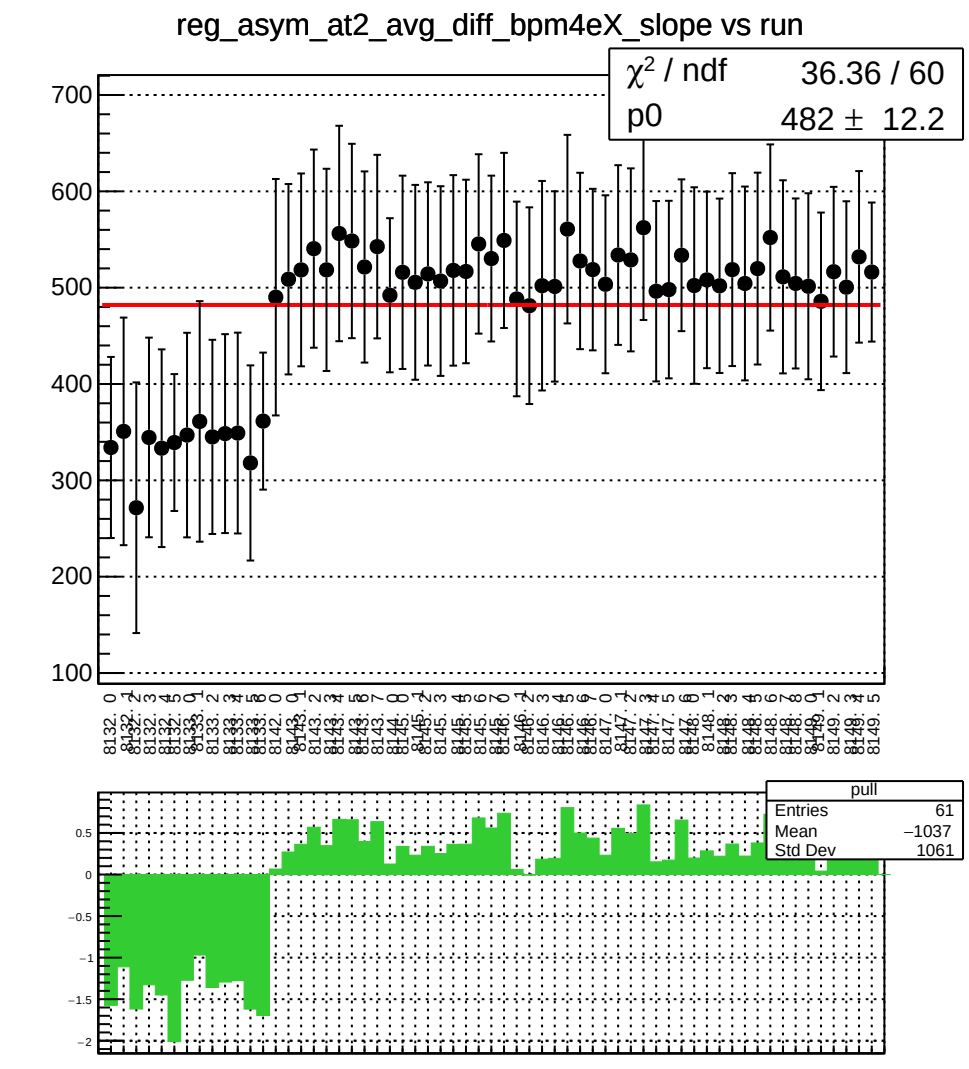

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 216.8 / 60
p0 35.54 ± 0.1771
pull
Entries 61
Mean 173.4
Std Dev 148
pull1D
Entries 61
Mean 0.142
Std Dev 1.88

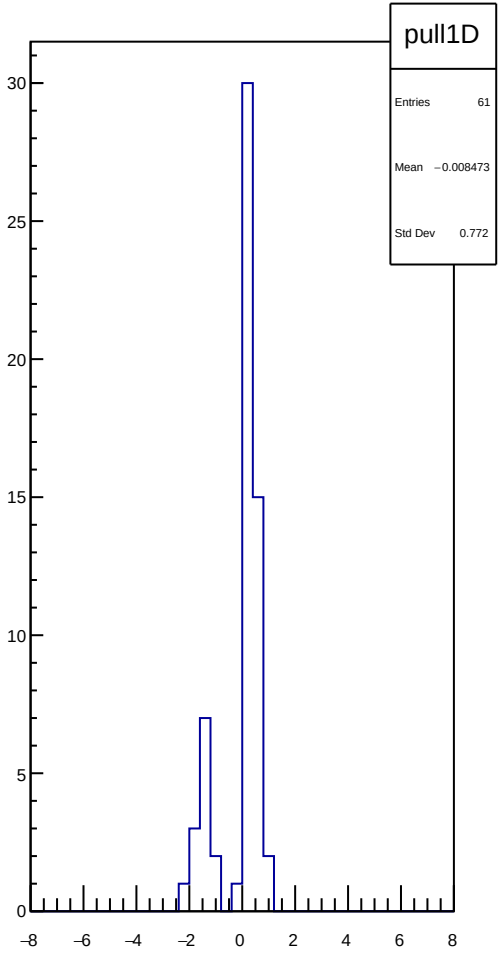

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 38.88 / 60
p0 −528.5 ± 12.22
pull
Entries 61
Mean −292.6
Std Dev 316.3

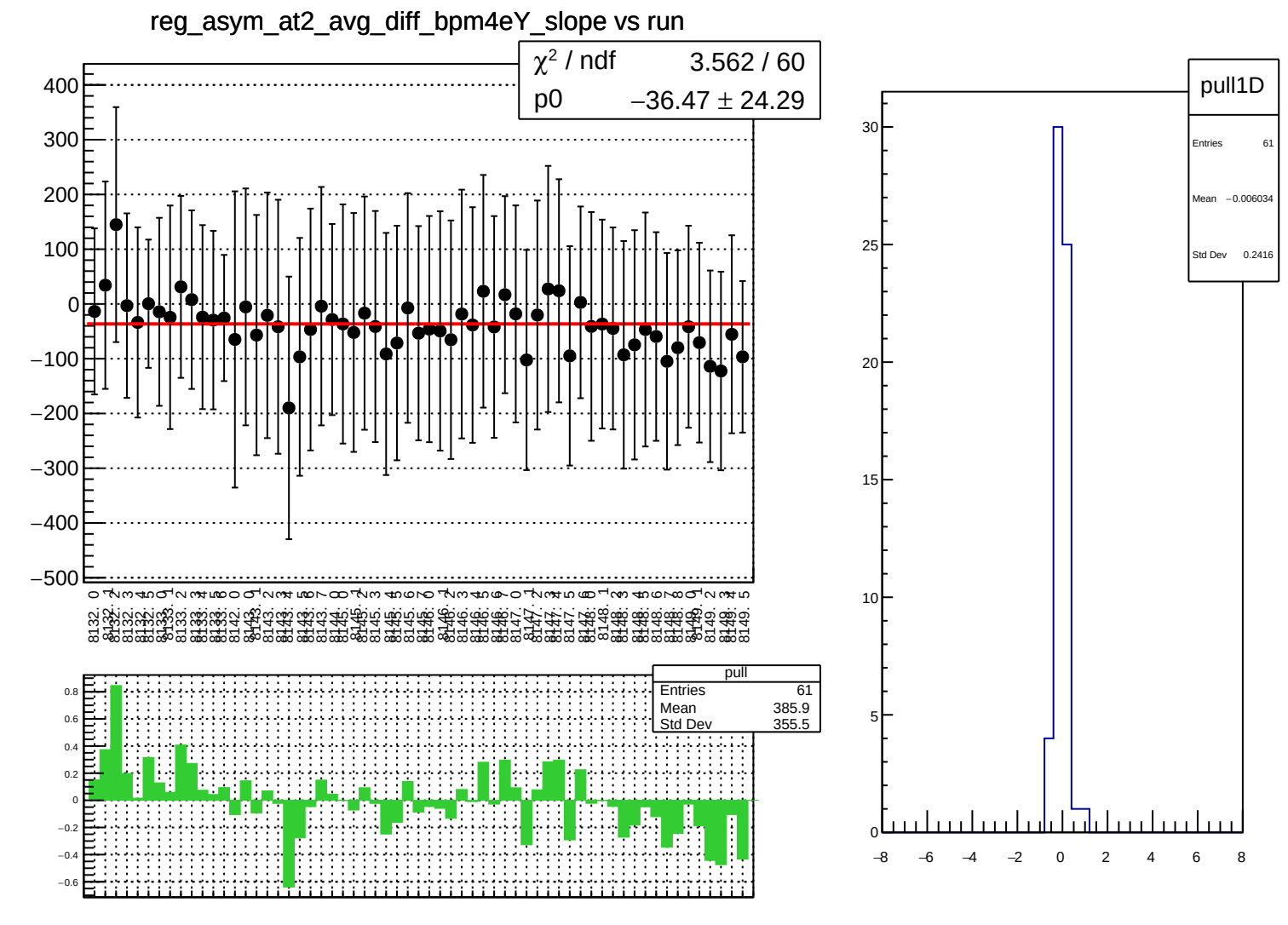

pull1D
Entries 61
Mean 0.02839
Std Dev 0.7979

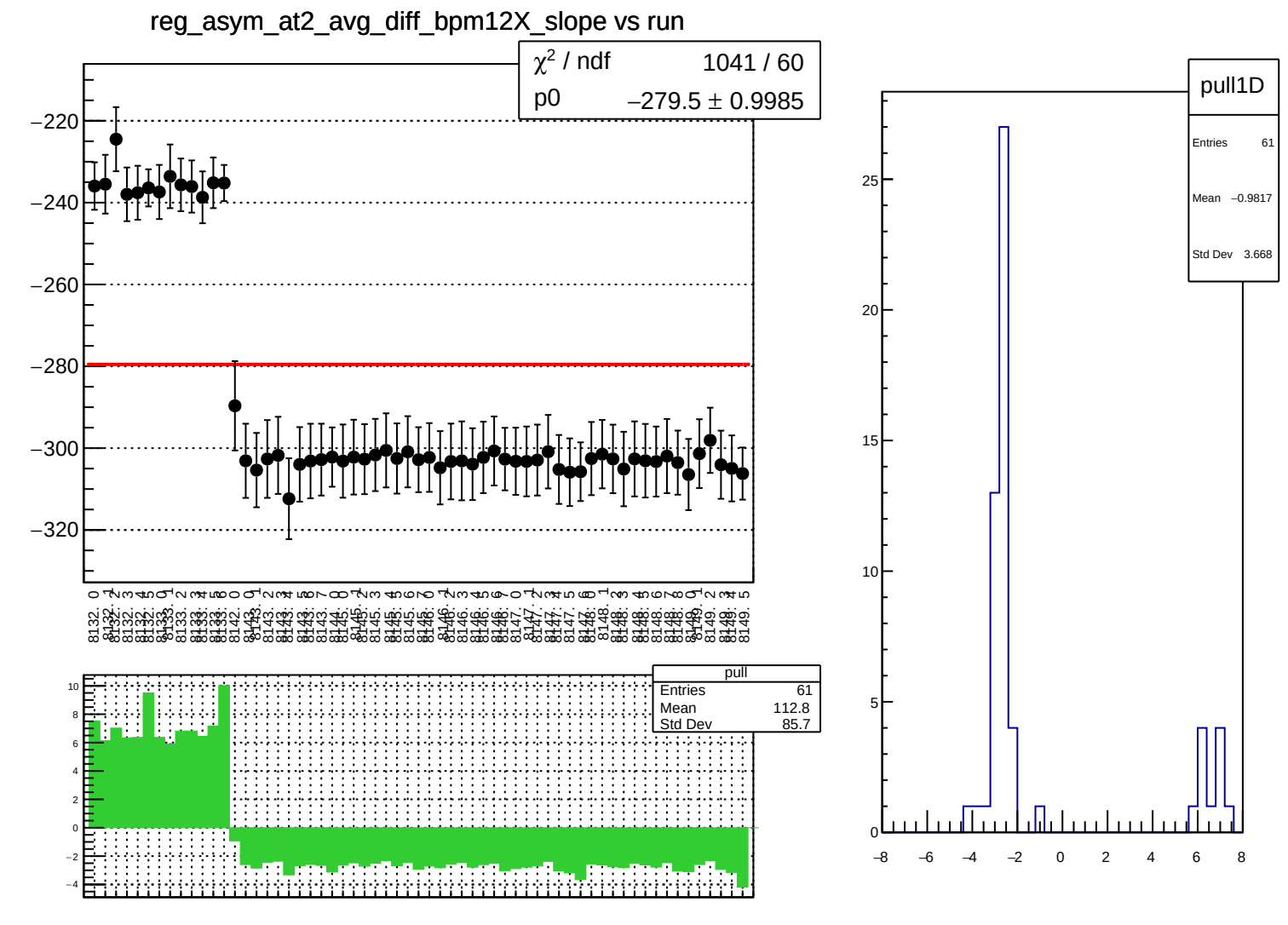

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.568 / 60
p0 150.9 ± 22.7
pull
Entries 61
Mean 237.7
Std Dev 208.3

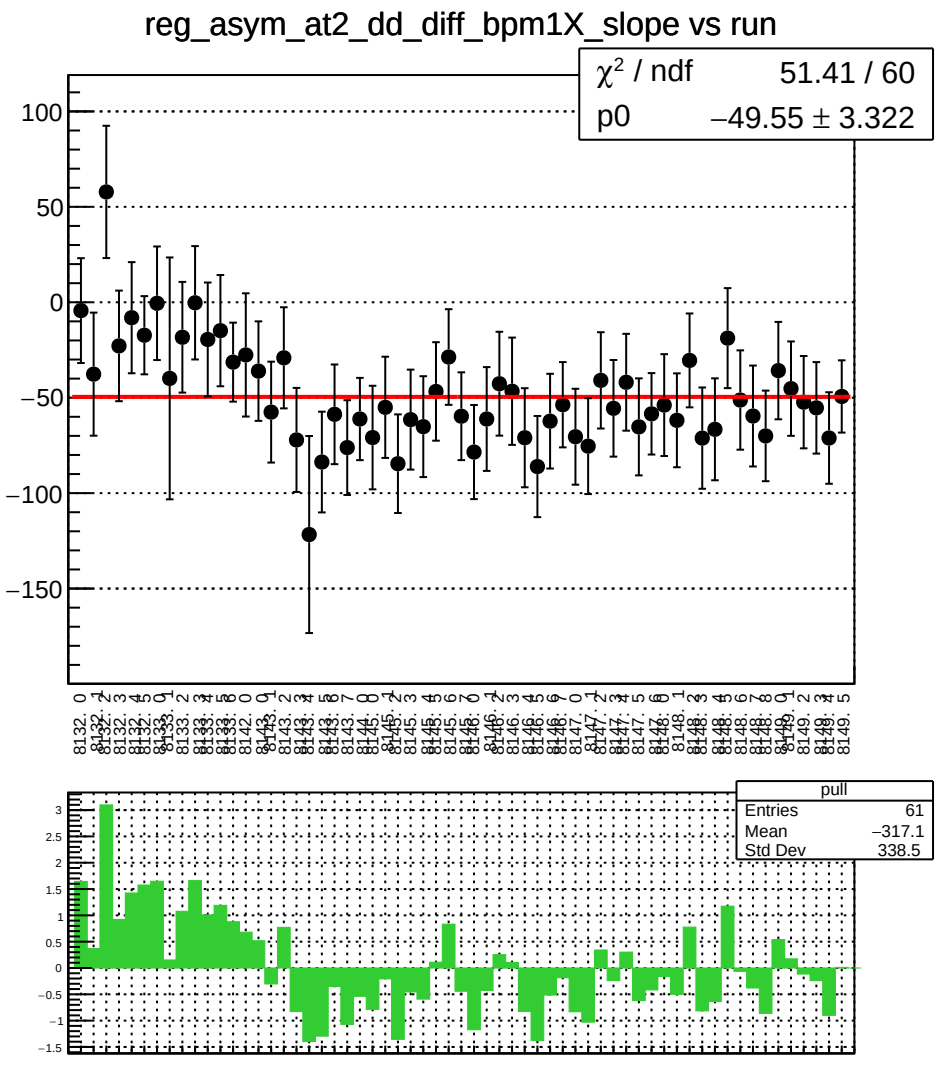

pull1D
Entries 61
Mean 0.01422
Std Dev 0.2733

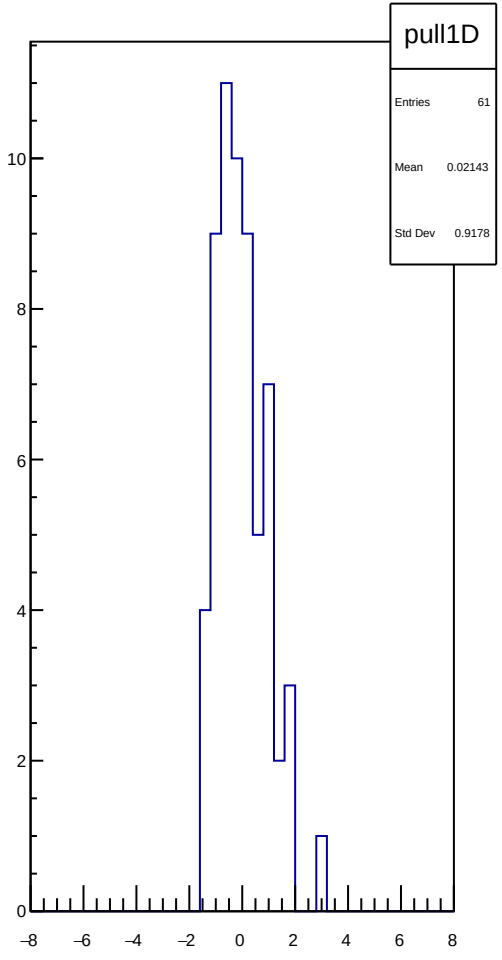

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.36 / 60
p0 482 ± 12.2
pull
Entries 61
Mean −1037
Std Dev 1061

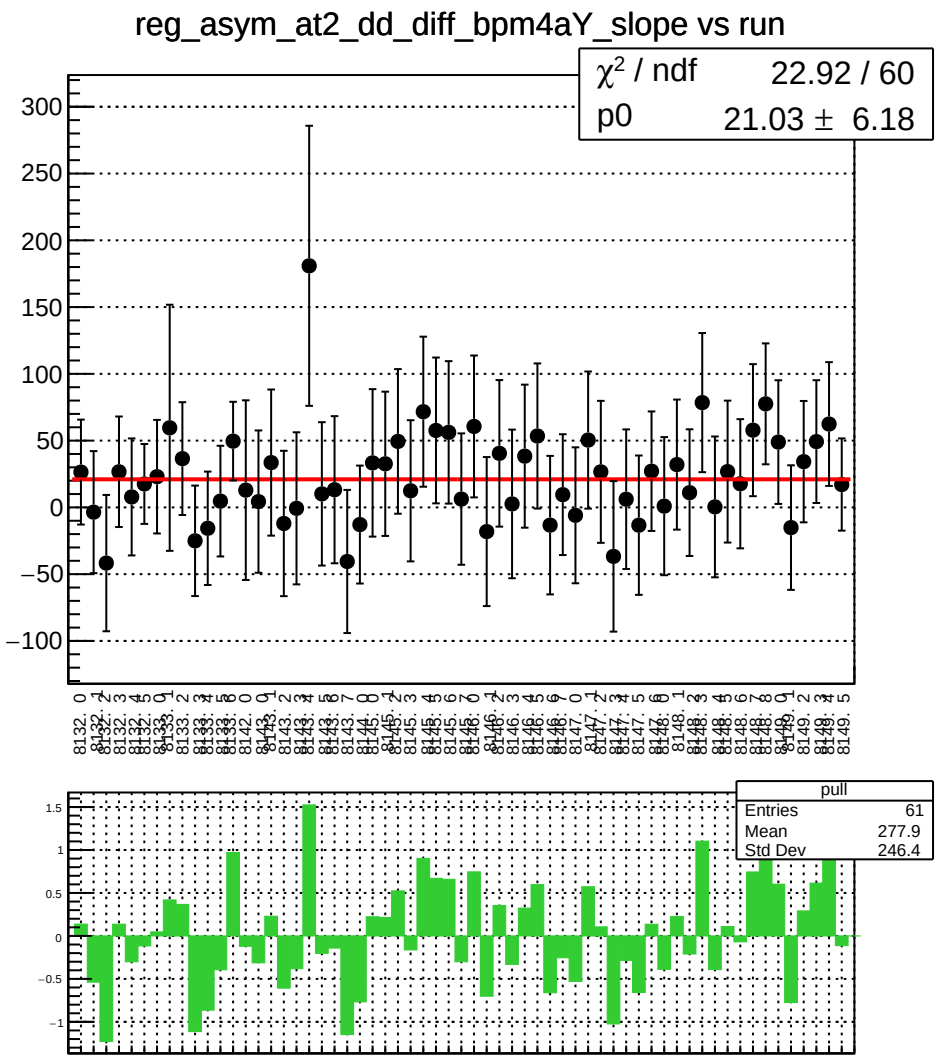

pull1D
Entries 61
Mean −0.008473
Std Dev 0.772

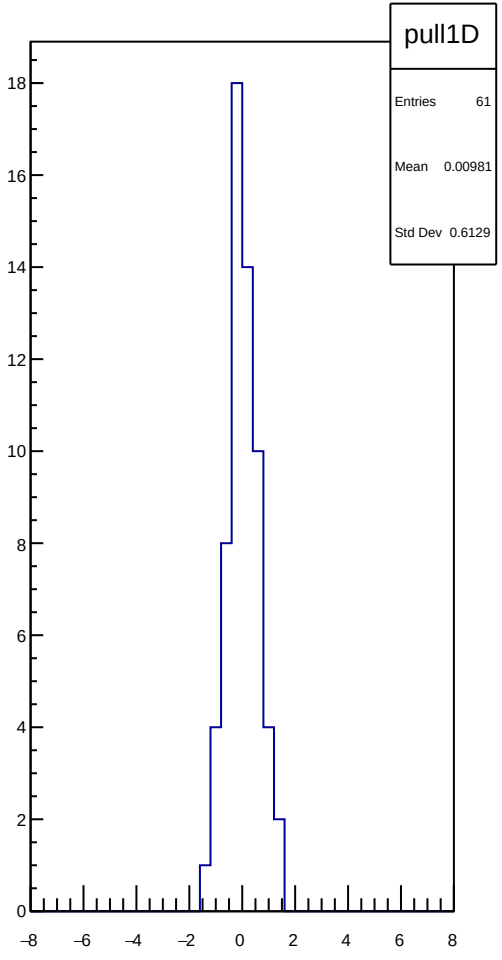

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.562 / 60
p0 −36.47 ± 24.29
pull
Entries 61
Mean 385.9
Std Dev 355.5
pull1D
Entries 61
Mean −0.006034
Std Dev 0.2416

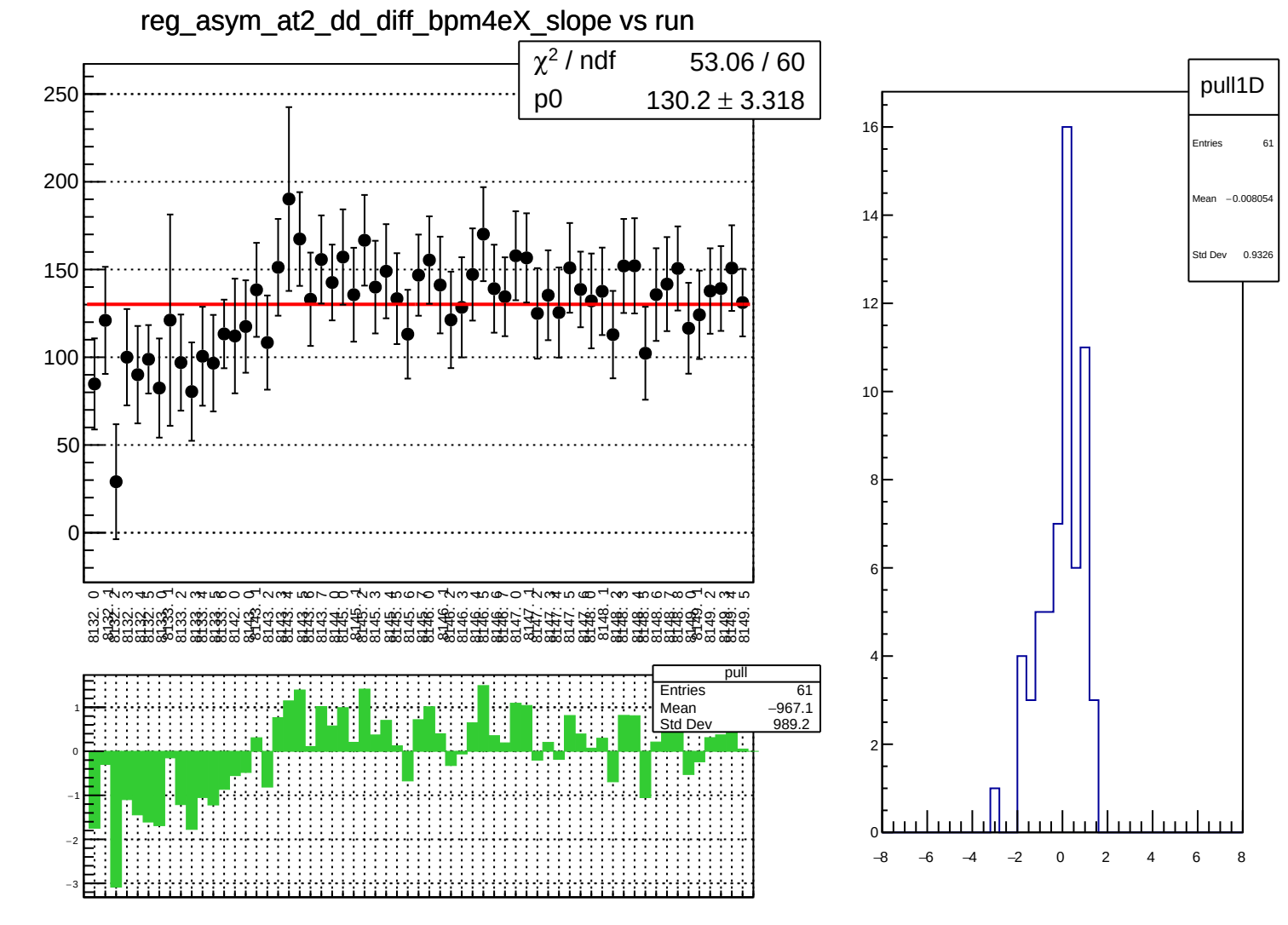

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 1041 / 60
p0 −279.5 ± 0.9985
pull
Entries 61
Mean 112.8
Std Dev 85.7
pull1D
Entries 61
Mean −0.9817
Std Dev 3.668

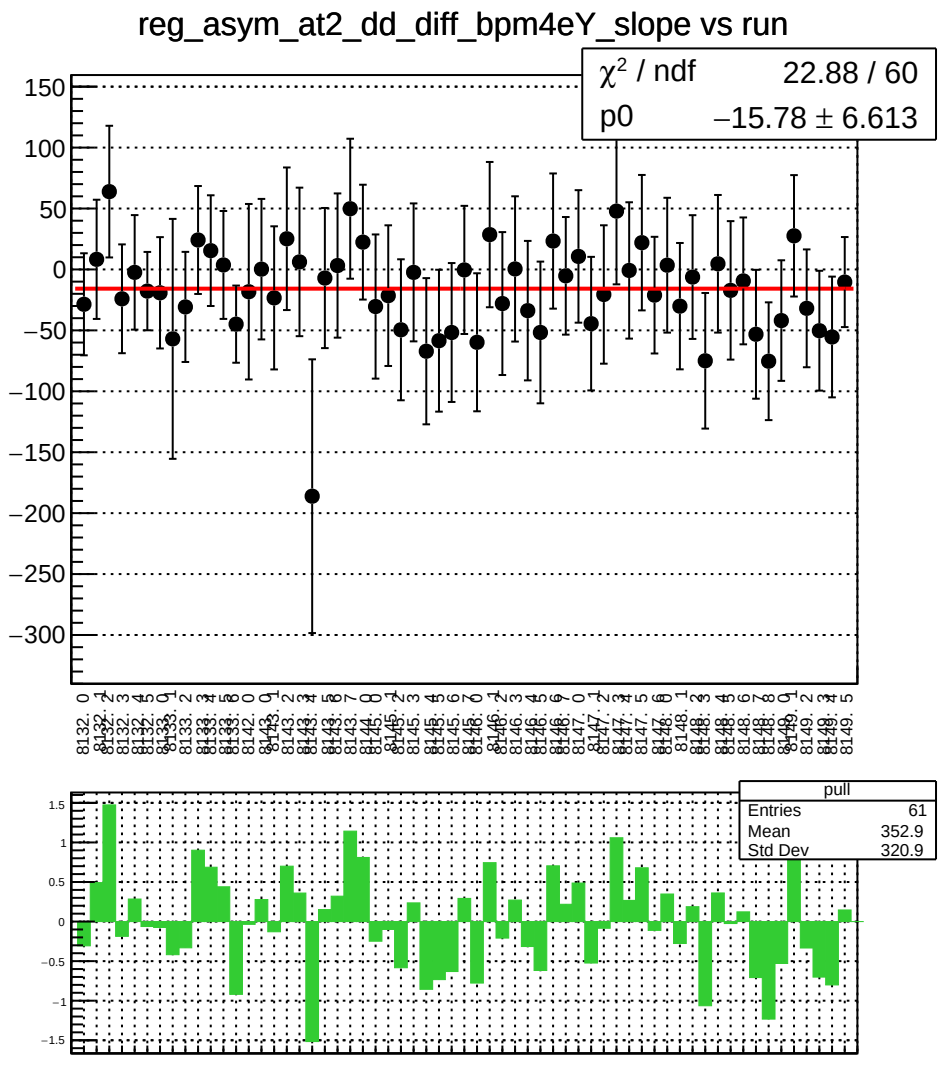

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 51.41 / 60
p0 −49.55 ± 3.322
pull
Entries 61
Mean −317.1
Std Dev 338.5

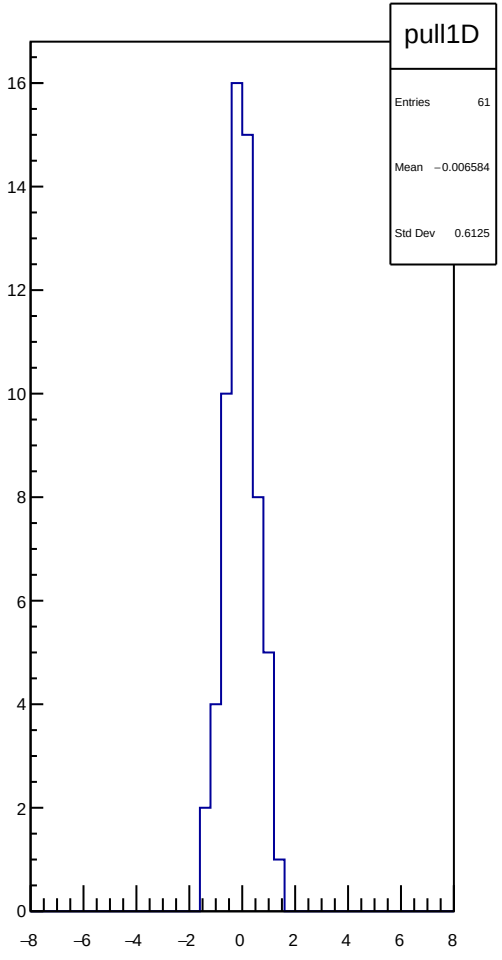

pull1D
Entries 61
Mean 0.02143
Std Dev 0.9178

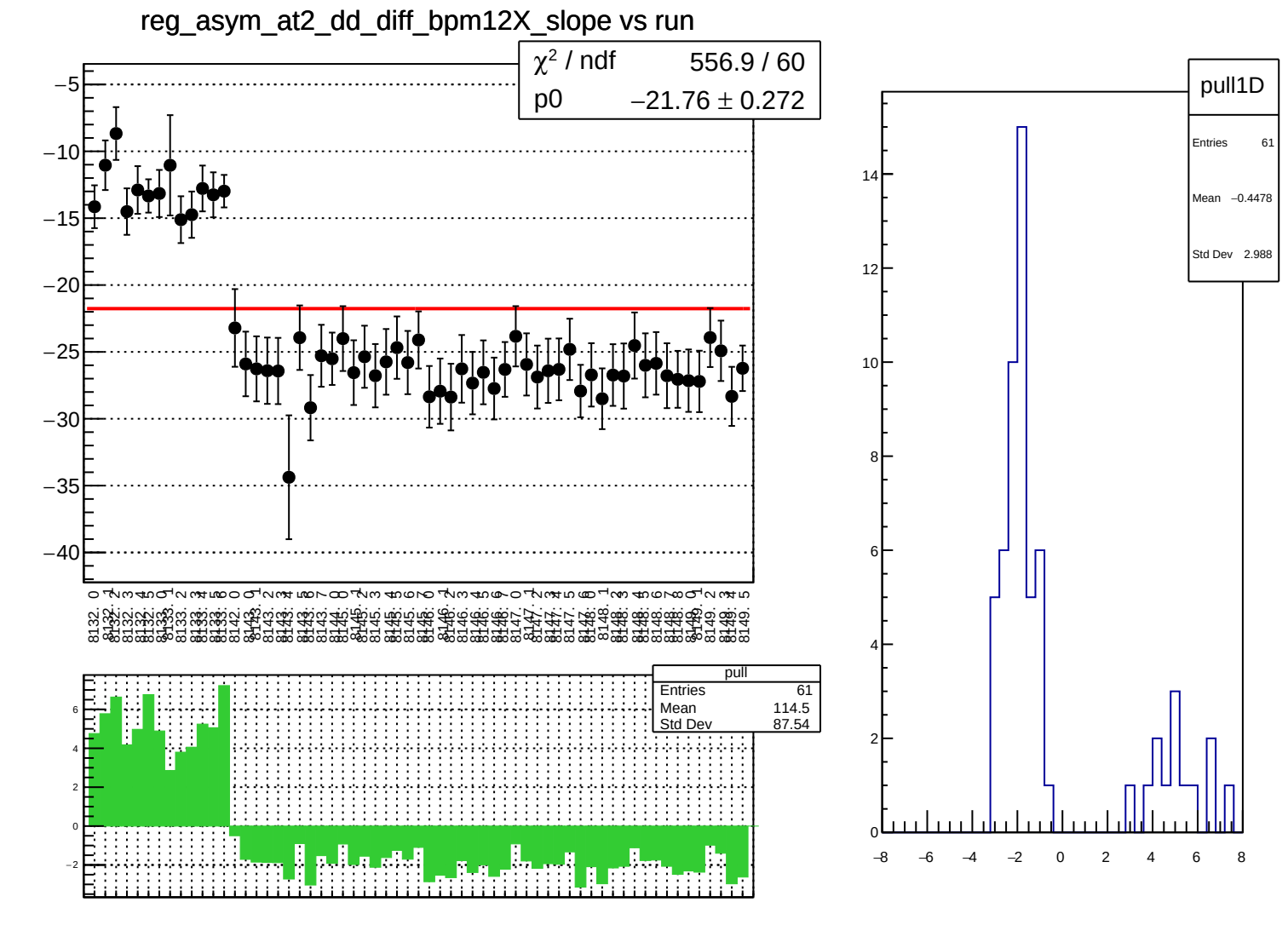

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.92 / 60
p0 21.03 ± 6.18
pull
Entries 61
Mean 277.9
Std Dev 246.4

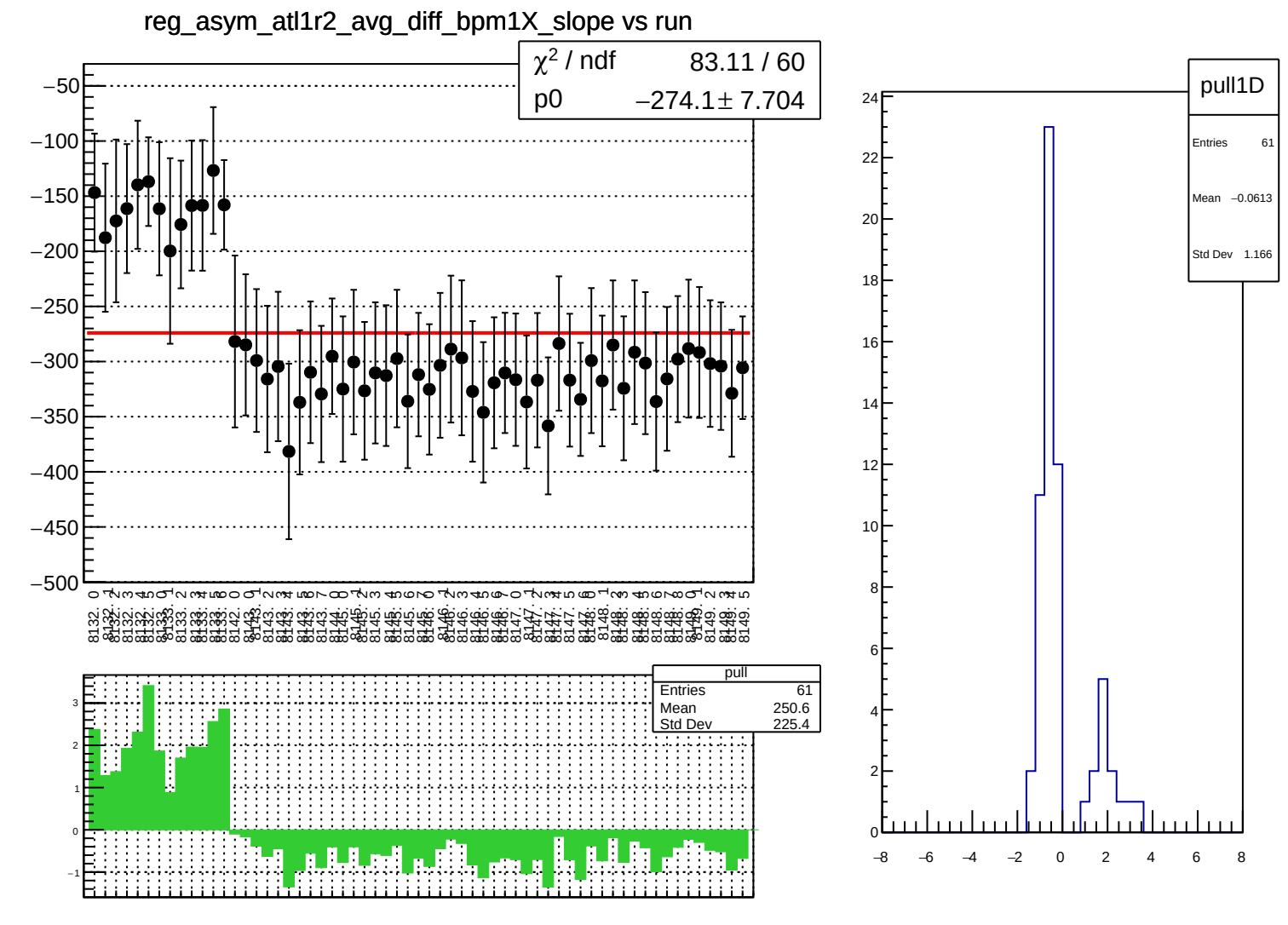

pull1D
Entries 61
Mean 0.00981
Std Dev 0.6129

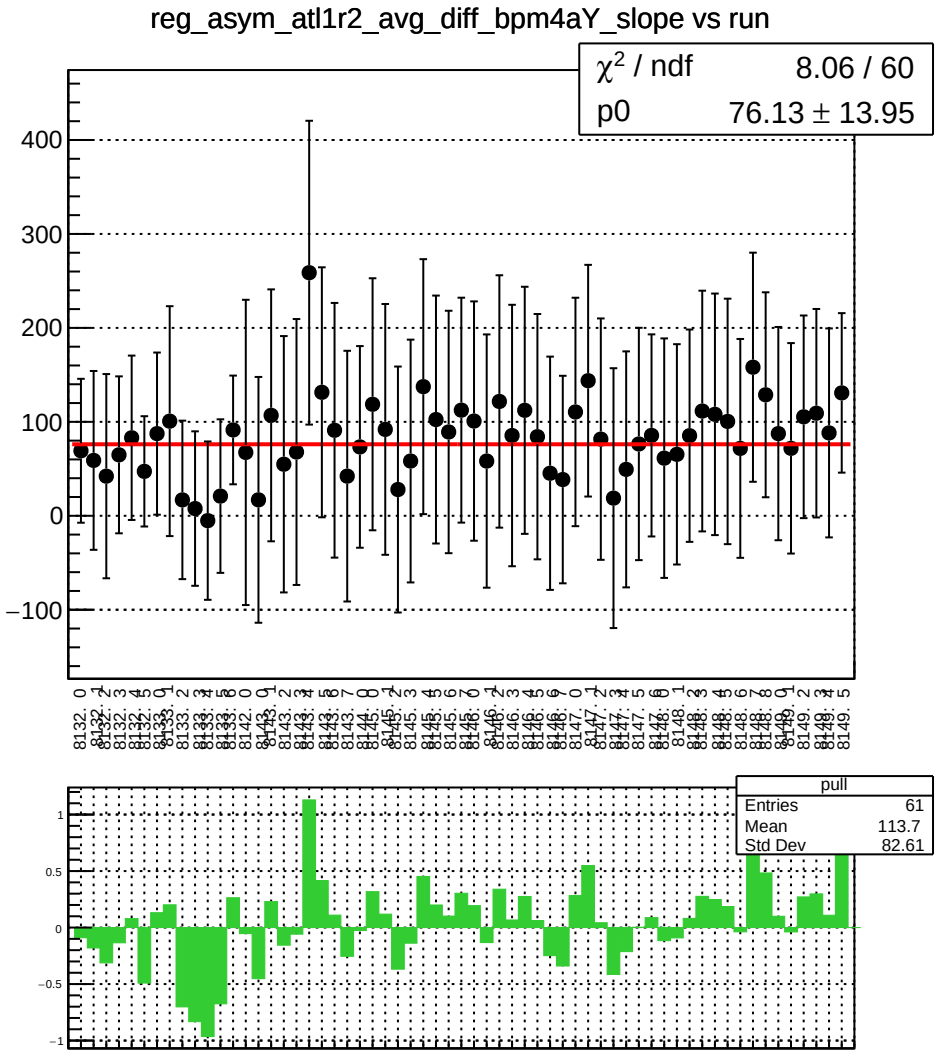

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 53.06 / 60
p0 130.2 ± 3.318
pull
Entries 61
Mean −967.1
Std Dev 989.2
pull1D
Entries 61
Mean −0.008054
Std Dev 0.9326

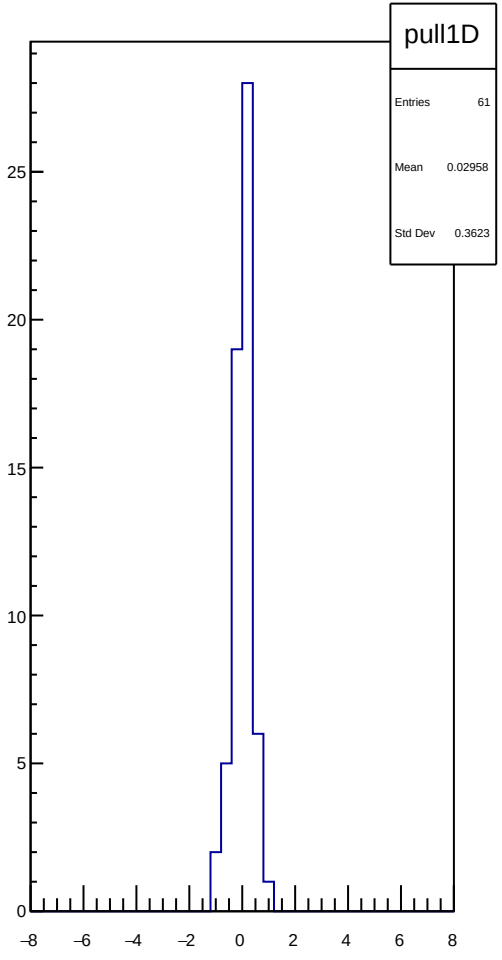

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.88 / 60
p0 −15.78 ± 6.613
pull
Entries 61
Mean 352.9
Std Dev 320.9

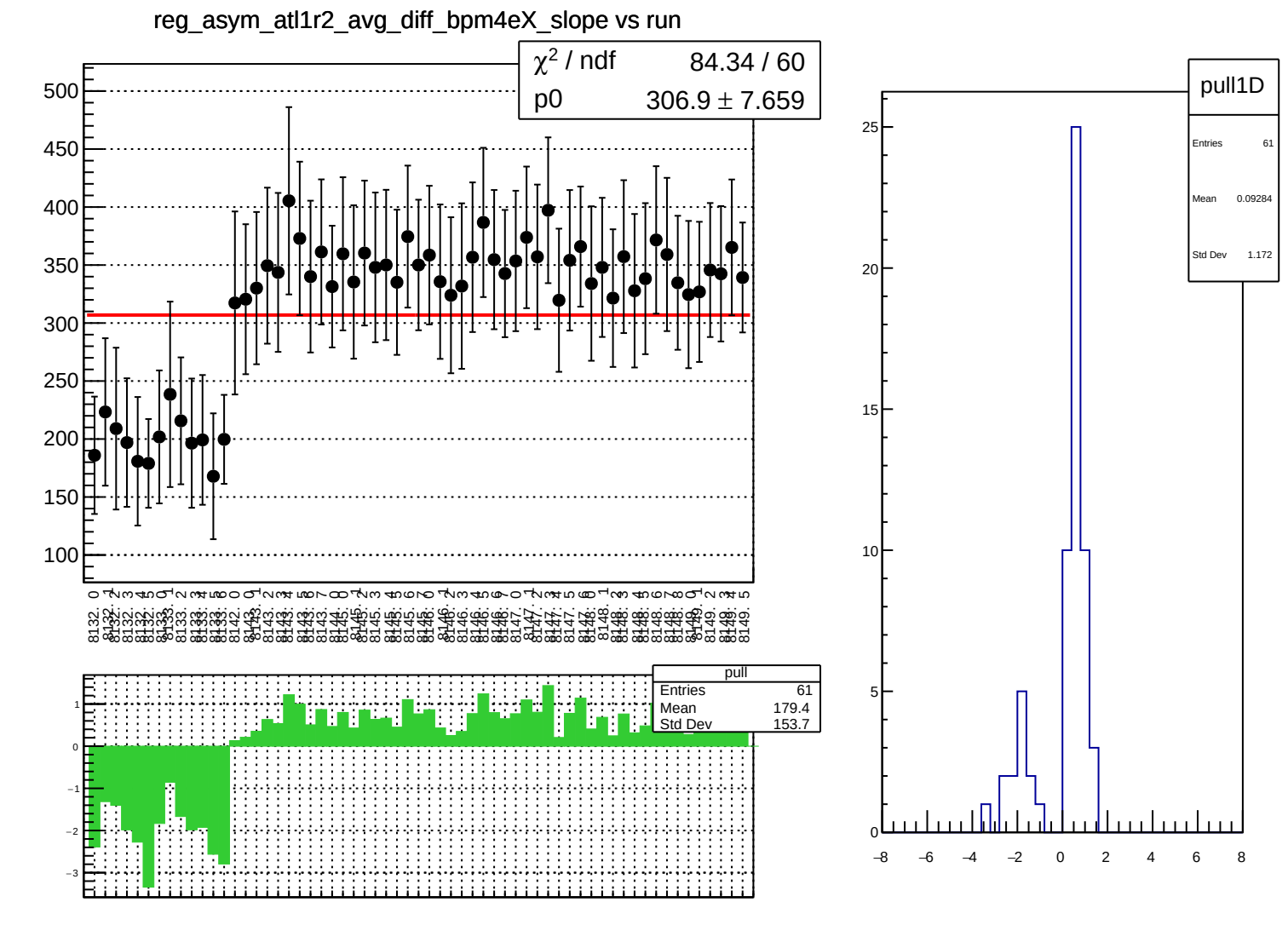

pull1D
Entries 61
Mean −0.006584
Std Dev 0.6125

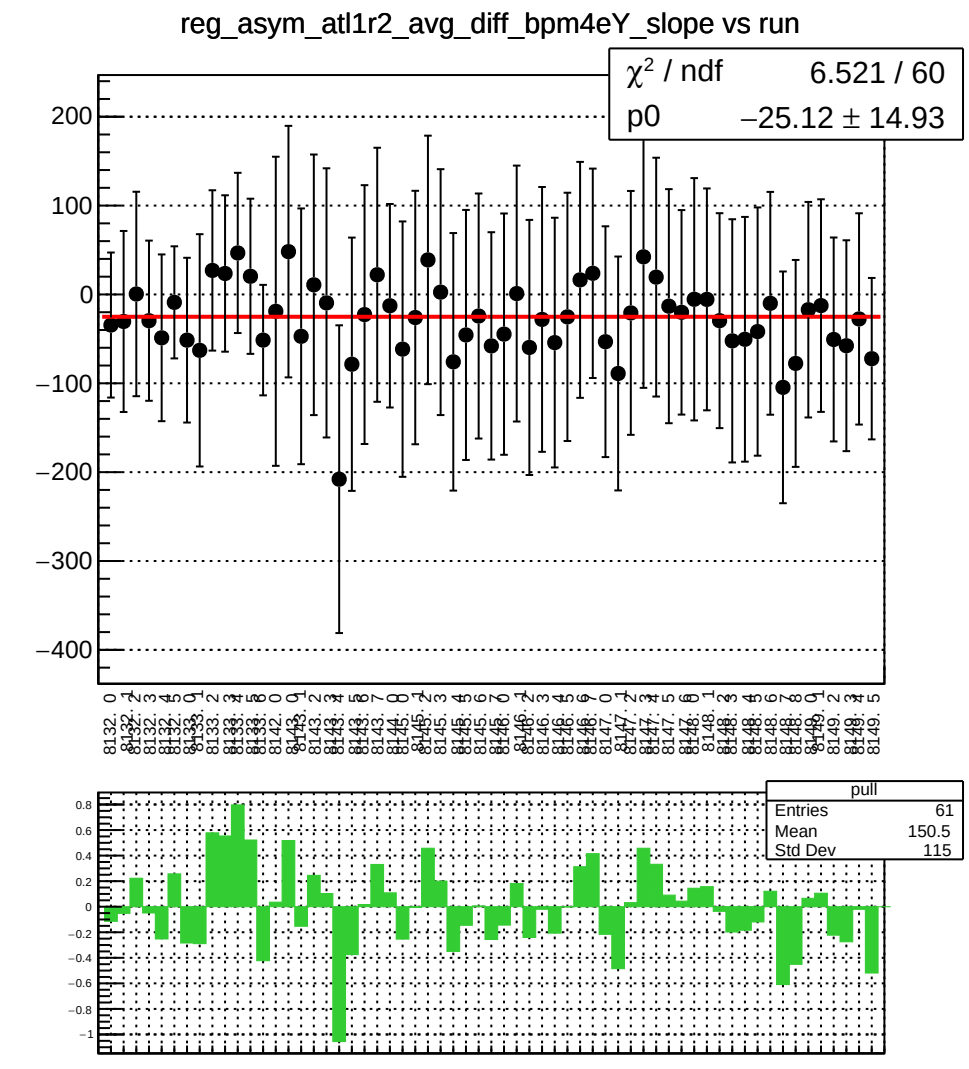

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 556.9 / 60
p0 −21.76 ± 0.272
pull
Entries 61
Mean 114.5
Std Dev 87.54
pull1D
Entries 61
Mean −0.4478
Std Dev 2.988

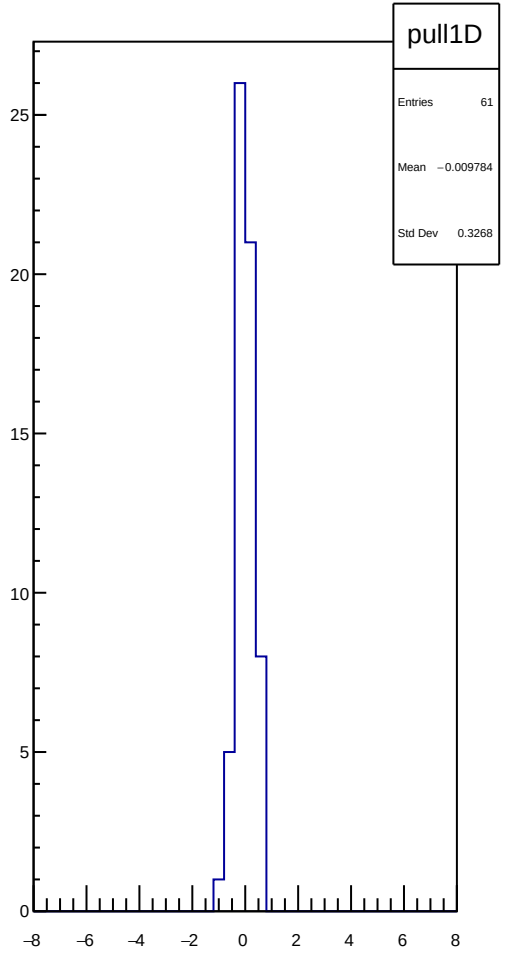

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 83.11 / 60
p0 −274.1± 7.704
pull
Entries 61
Mean 250.6
Std Dev 225.4
pull1D
Entries 61
Mean −0.0613
Std Dev 1.166

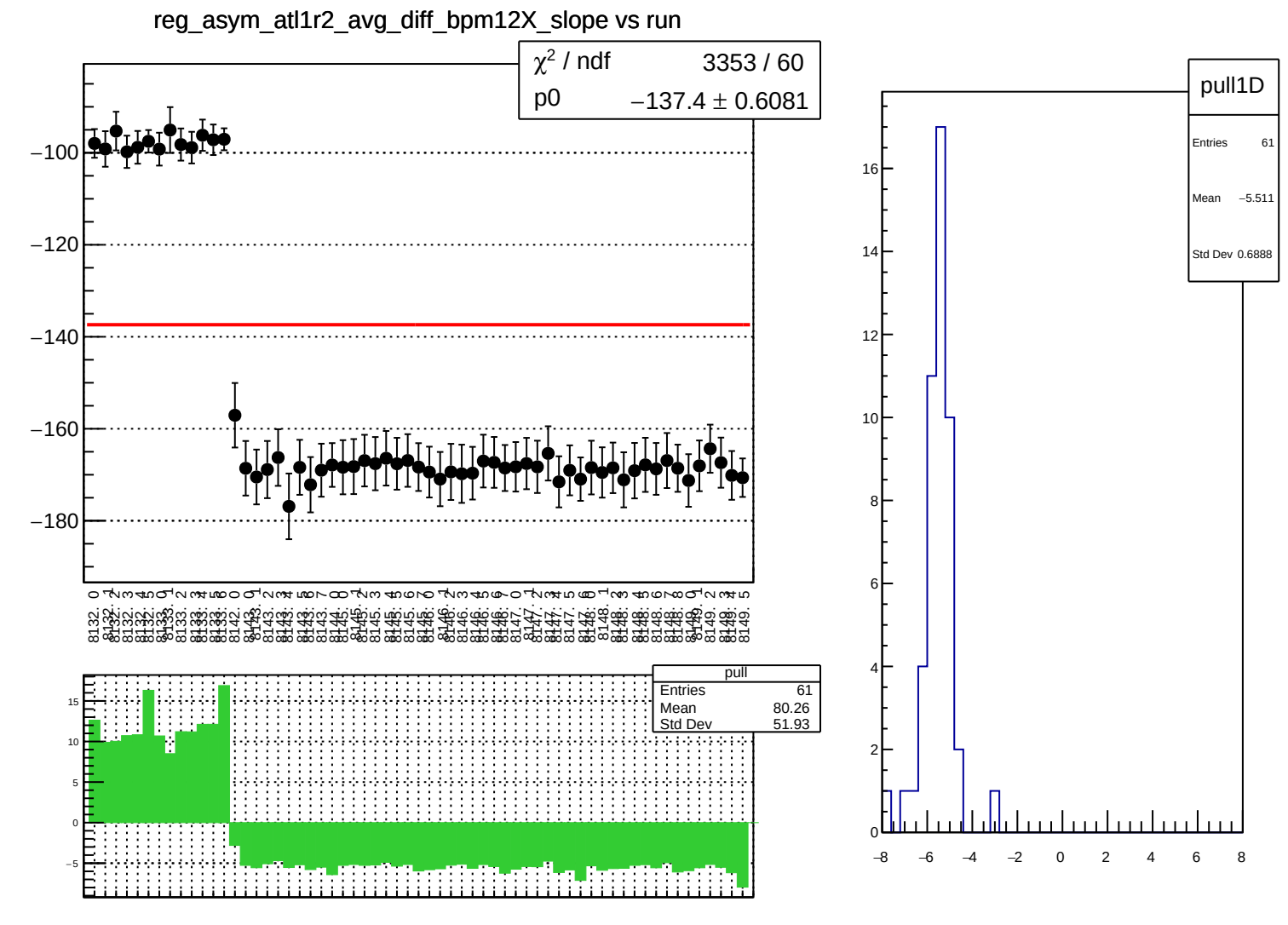

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.06 / 60
p0 76.13 ± 13.95
pull
Entries 61
Mean 113.7
Std Dev 82.61

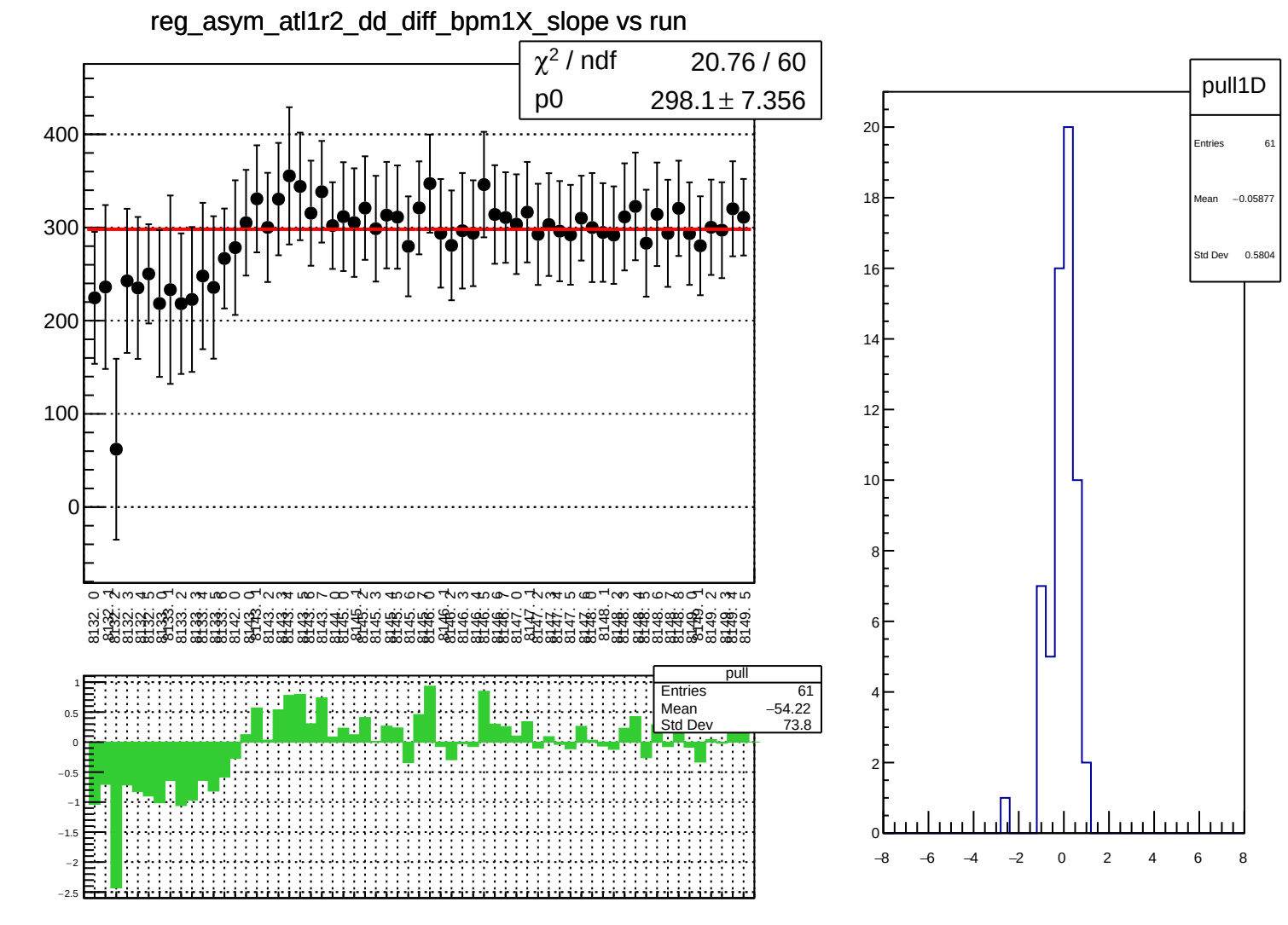

pull1D
Entries 61
Mean 0.02958
Std Dev 0.3623

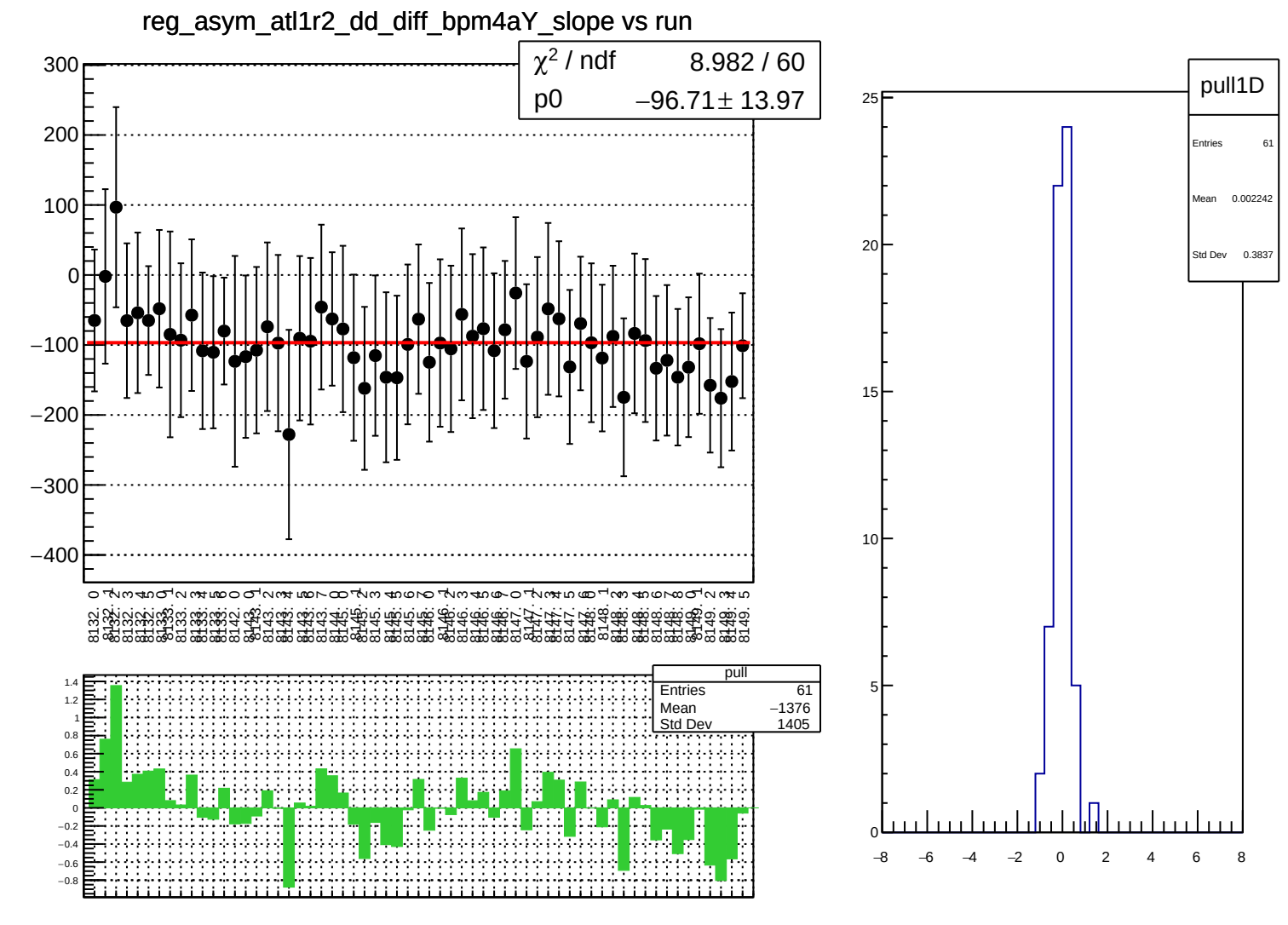

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.34 / 60
p0 306.9 ± 7.659
pull
Entries 61
Mean 179.4
Std Dev 153.7
pull1D
Entries 61
Mean 0.09284
Std Dev 1.172

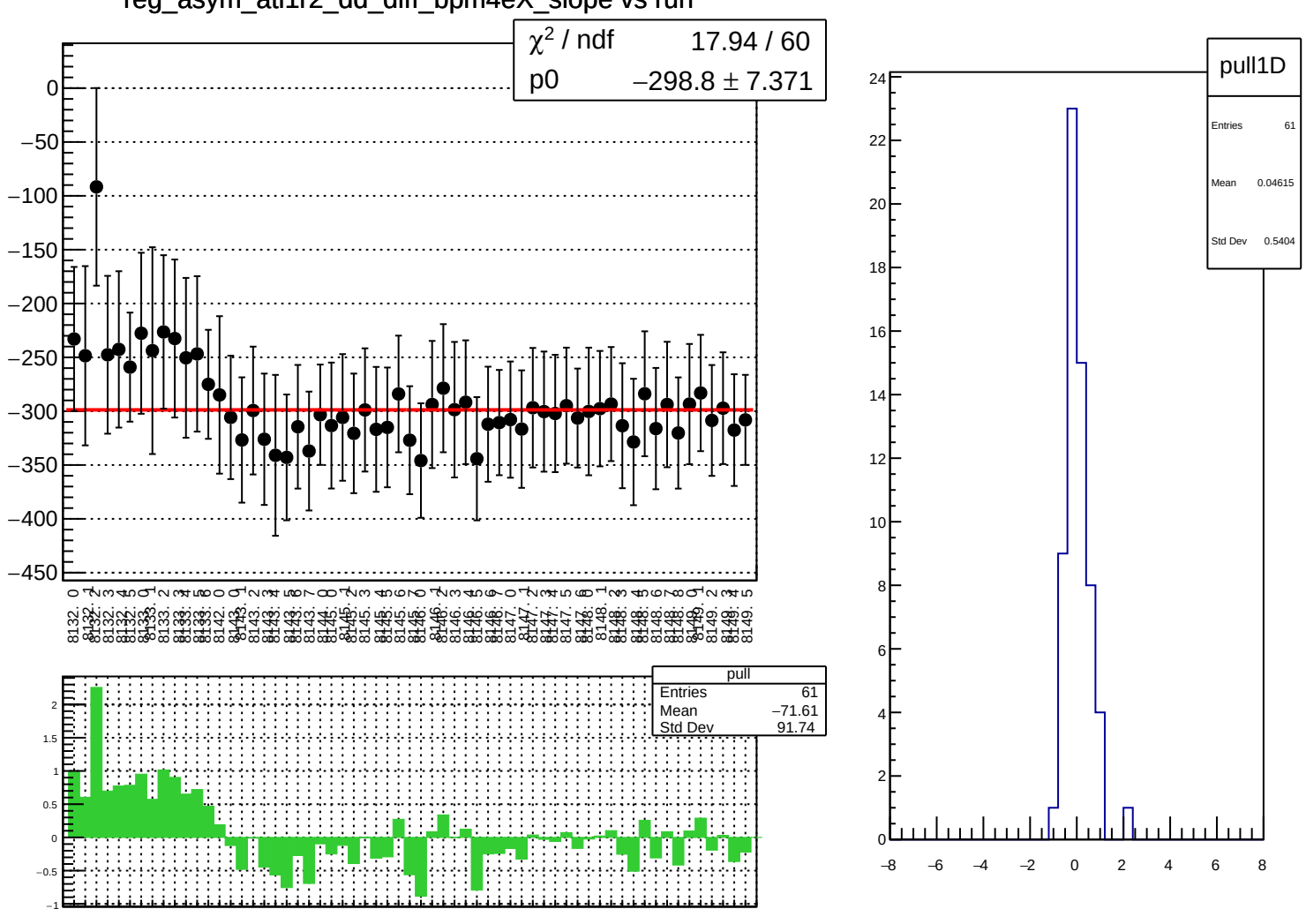

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.521 / 60
p0 −25.12 ± 14.93
pull
Entries 61
Mean 150.5
Std Dev 115

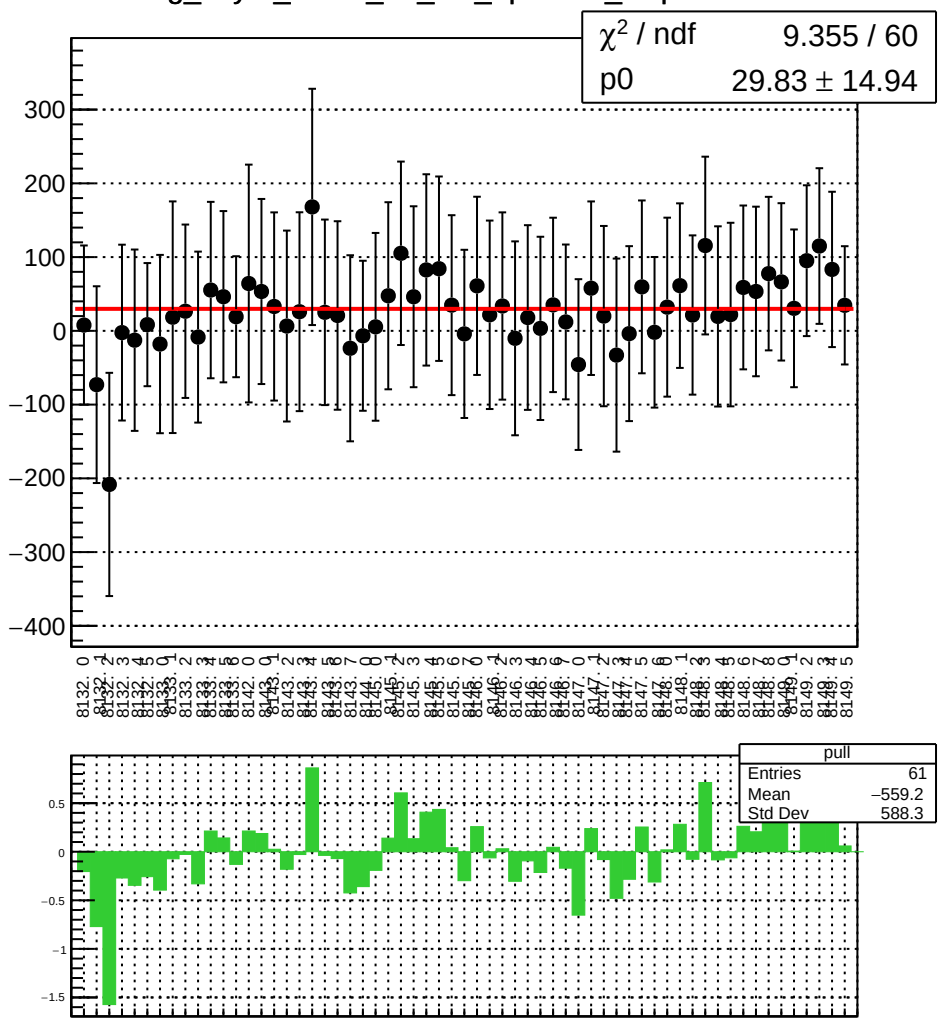

pull1D
Entries 61
Mean −0.009784
Std Dev 0.3268

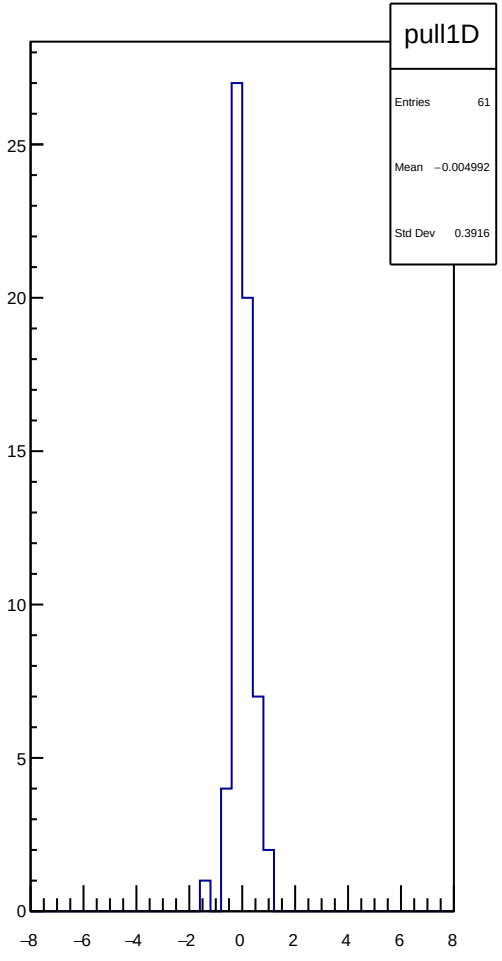

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 3353 / 60
p0 −137.4 ± 0.6081
pull
Entries 61
Mean 80.26
Std Dev 51.93
pull1D
Entries 61
Mean −5.511
Std Dev 0.6888

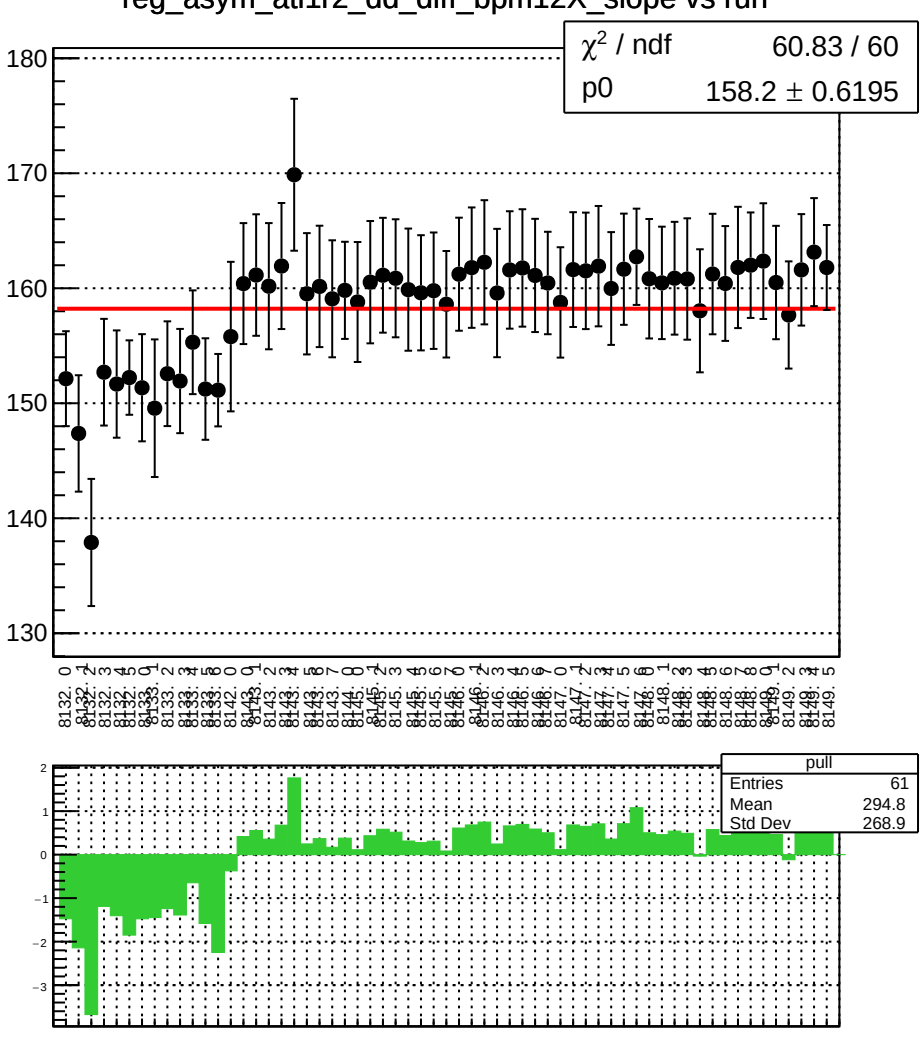

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 20.76 / 60
p0 298.1 ± 7.356
pull
Entries 61
Mean −54.22
Std Dev 73.8
pull1D
Entries 61
Mean −0.05877
Std Dev 0.5804

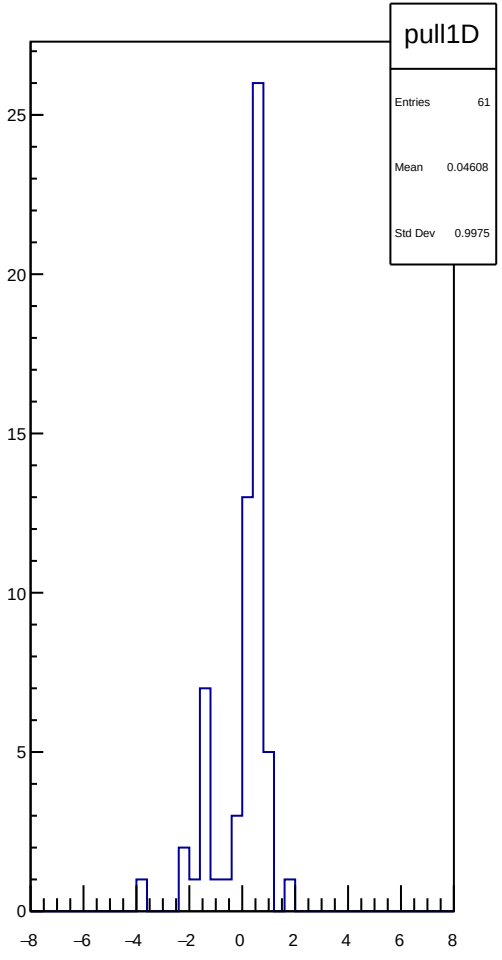

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.982 / 60
p0 −96.71 ± 13.97
pull
Entries 61
Mean −1376
Std Dev 1405
pull1D
Entries 61
Mean 0.002242
Std Dev 0.3837

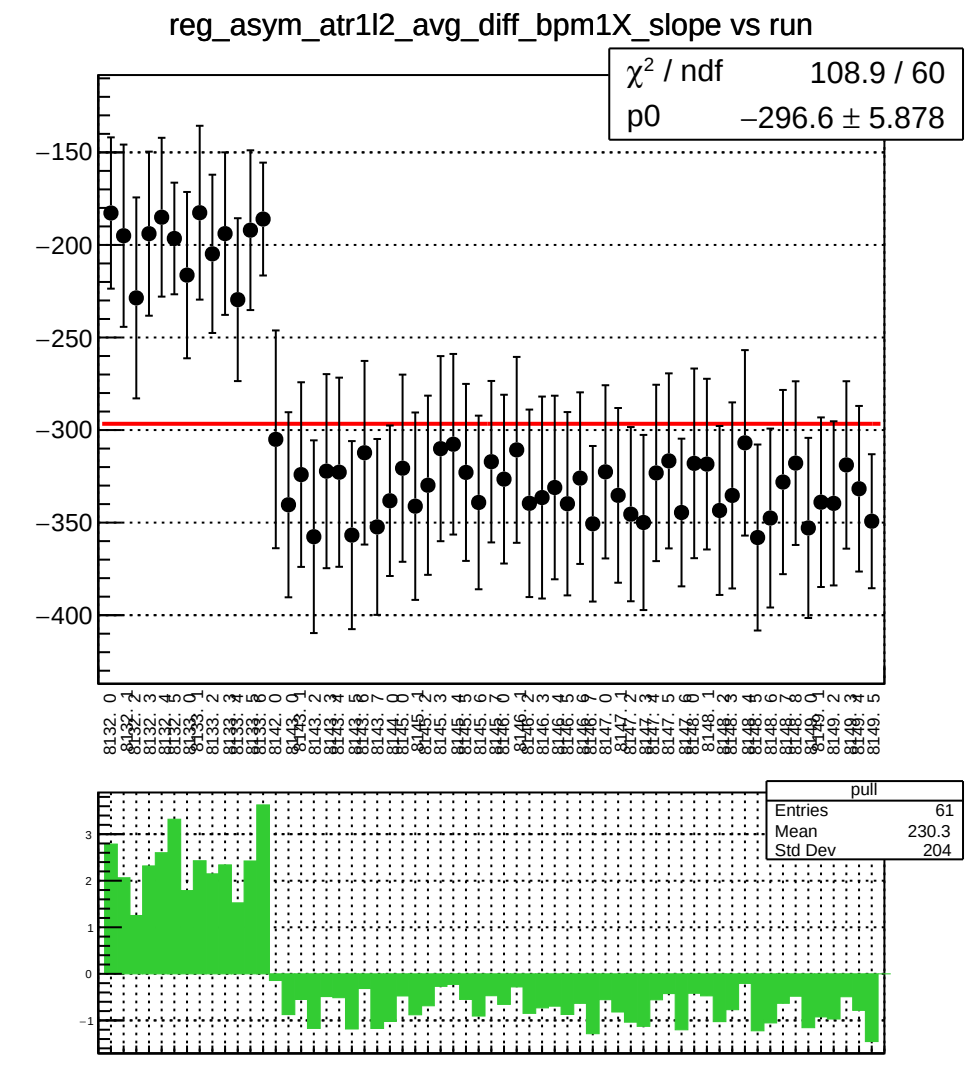

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.94 / 60
p0 −298.8 ± 7.371
pull
Entries 61
Mean −71.61
Std Dev 91.74
pull1D
Entries 61
Mean 0.04615
Std Dev 0.5404

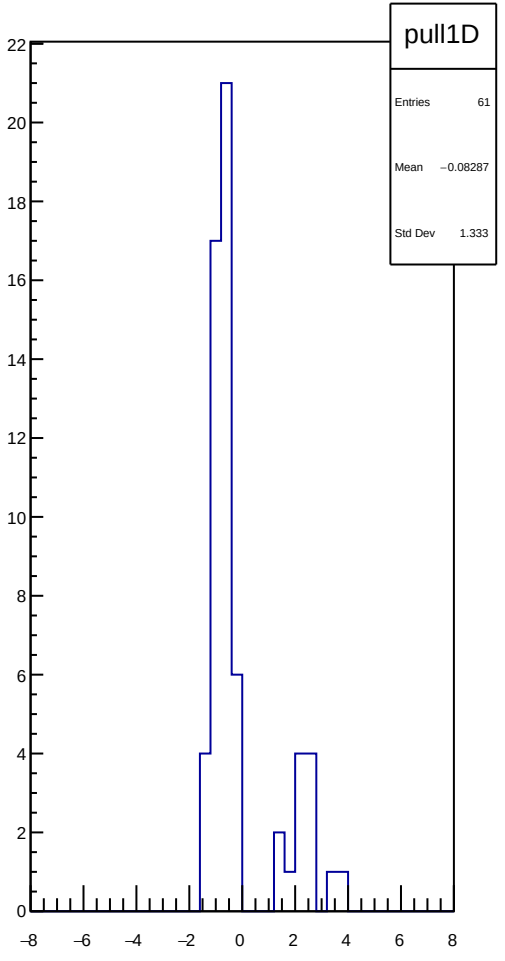

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.355 / 60
p0 29.83 ± 14.94
pull
Entries 61
Mean −559.2
Std Dev 588.3

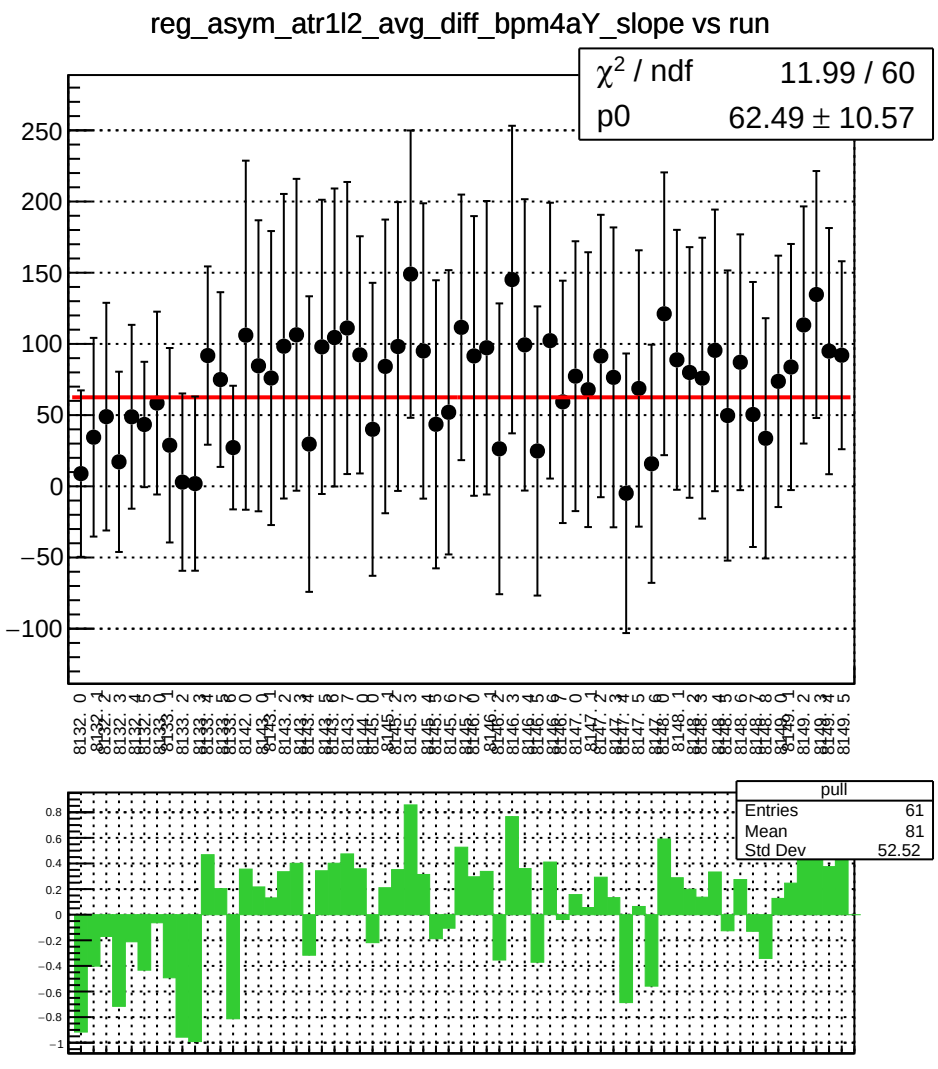

pull1D
Entries 61
Mean −0.004992
Std Dev 0.3916

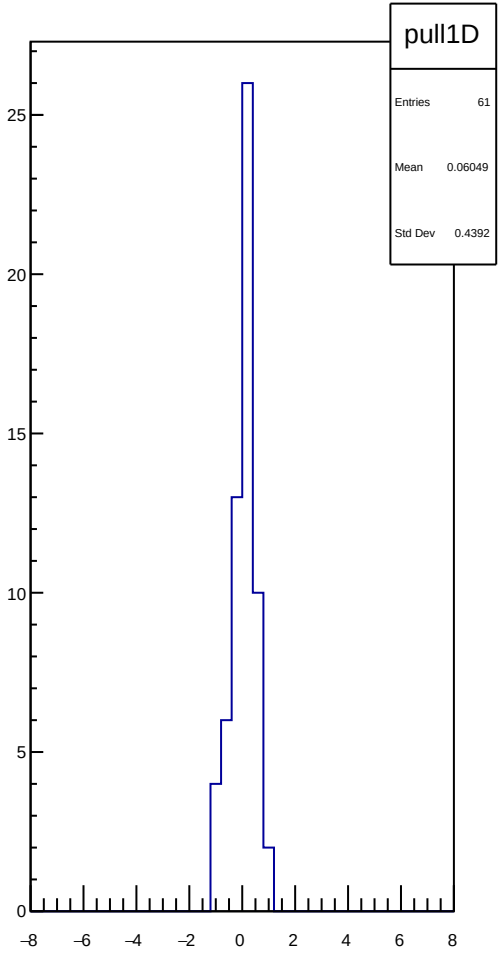

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 60.83 / 60
p0 158.2 ± 0.6195
pull
Entries 61
Mean 294.8
Std Dev 268.9

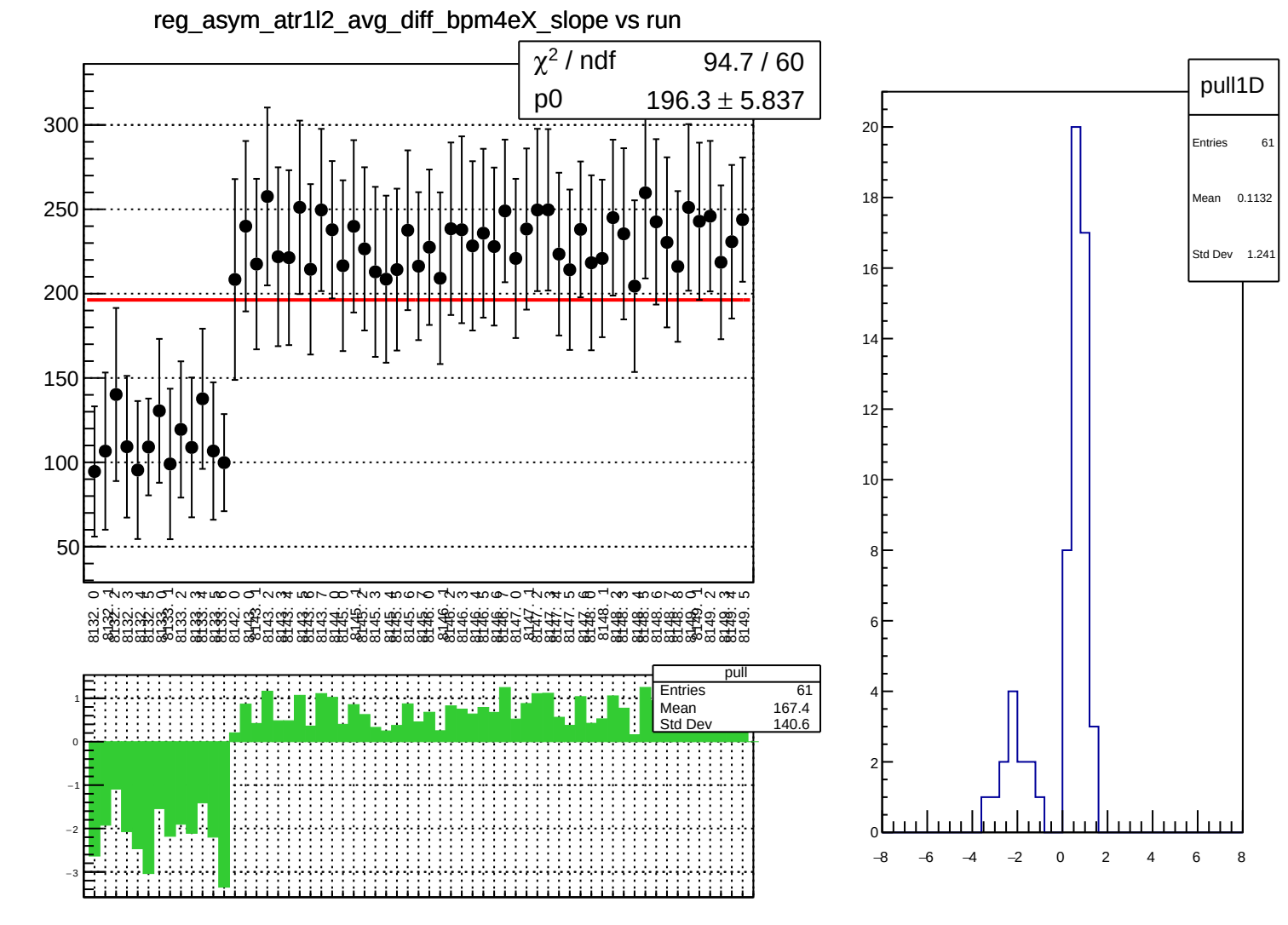

pull1D
Entries 61
Mean 0.04608
Std Dev 0.9975

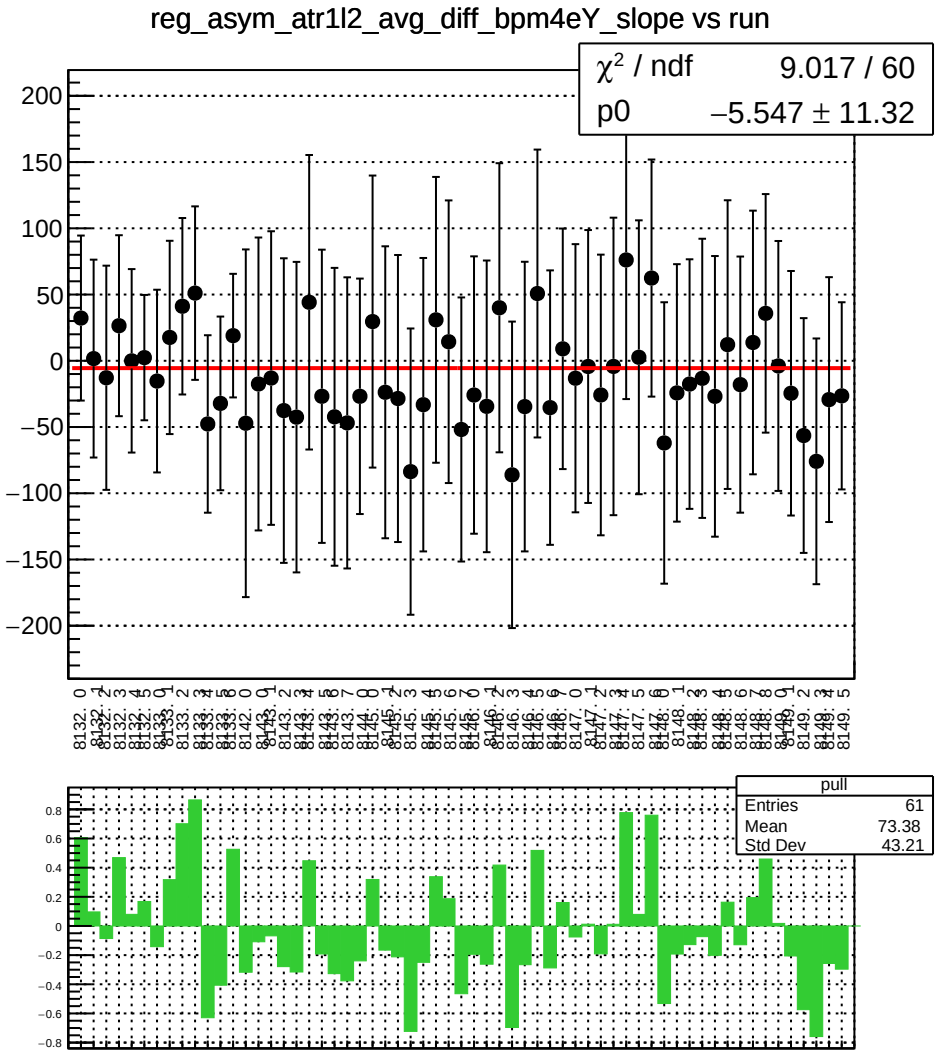

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 108.9 / 60
p0 −296.6 ± 5.878
pull
Entries 61
Mean 230.3
Std Dev 204

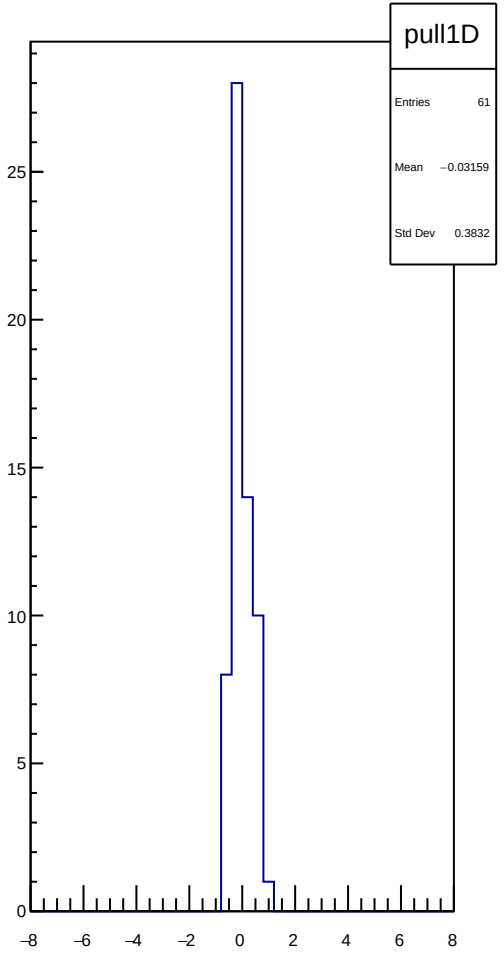

pull1D
Entries 61
Mean −0.08287
Std Dev 1.333

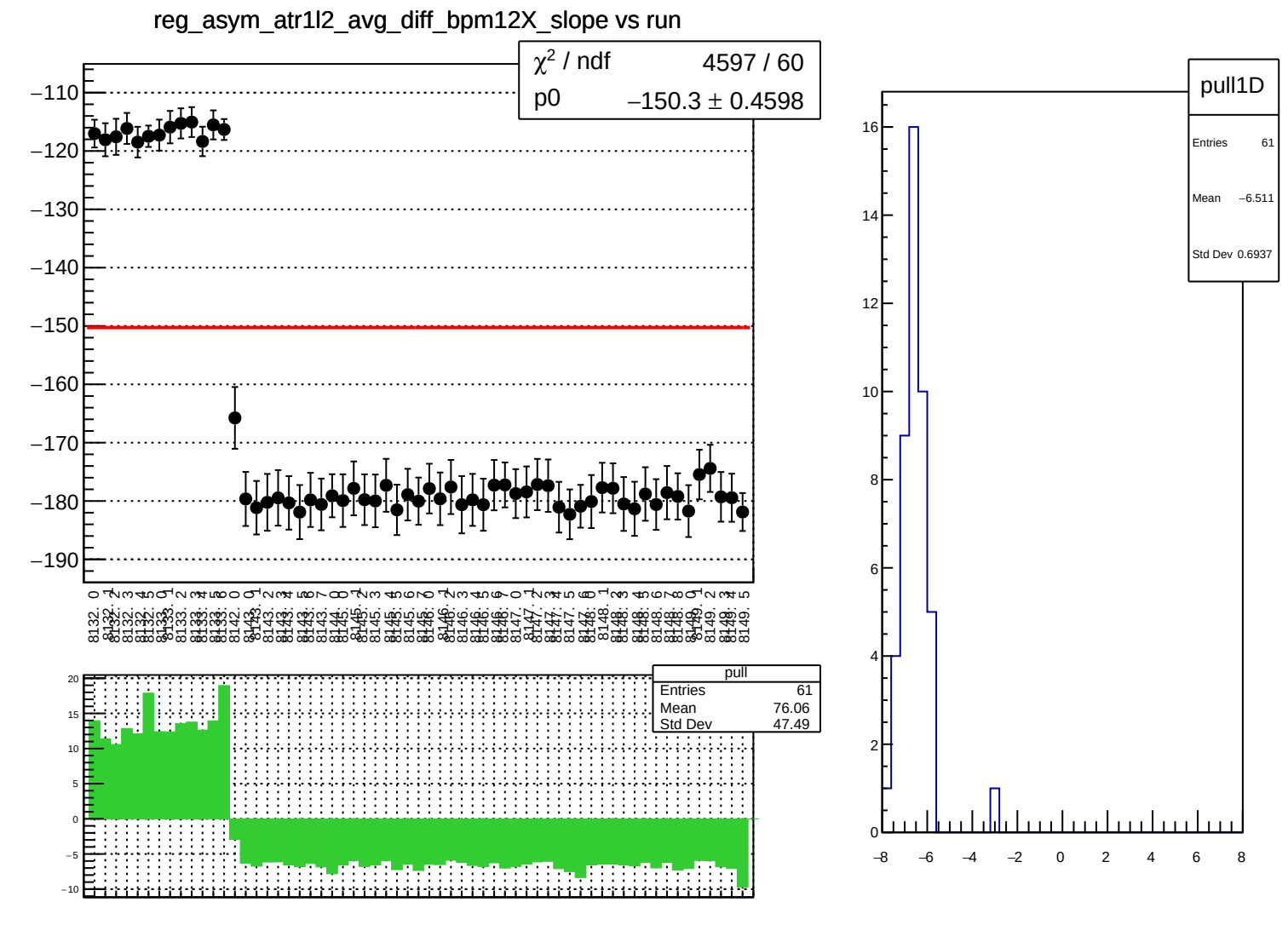

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.99 / 60
p0 62.49 ± 10.57
pull
Entries 61
Mean 81
Std Dev 52.52

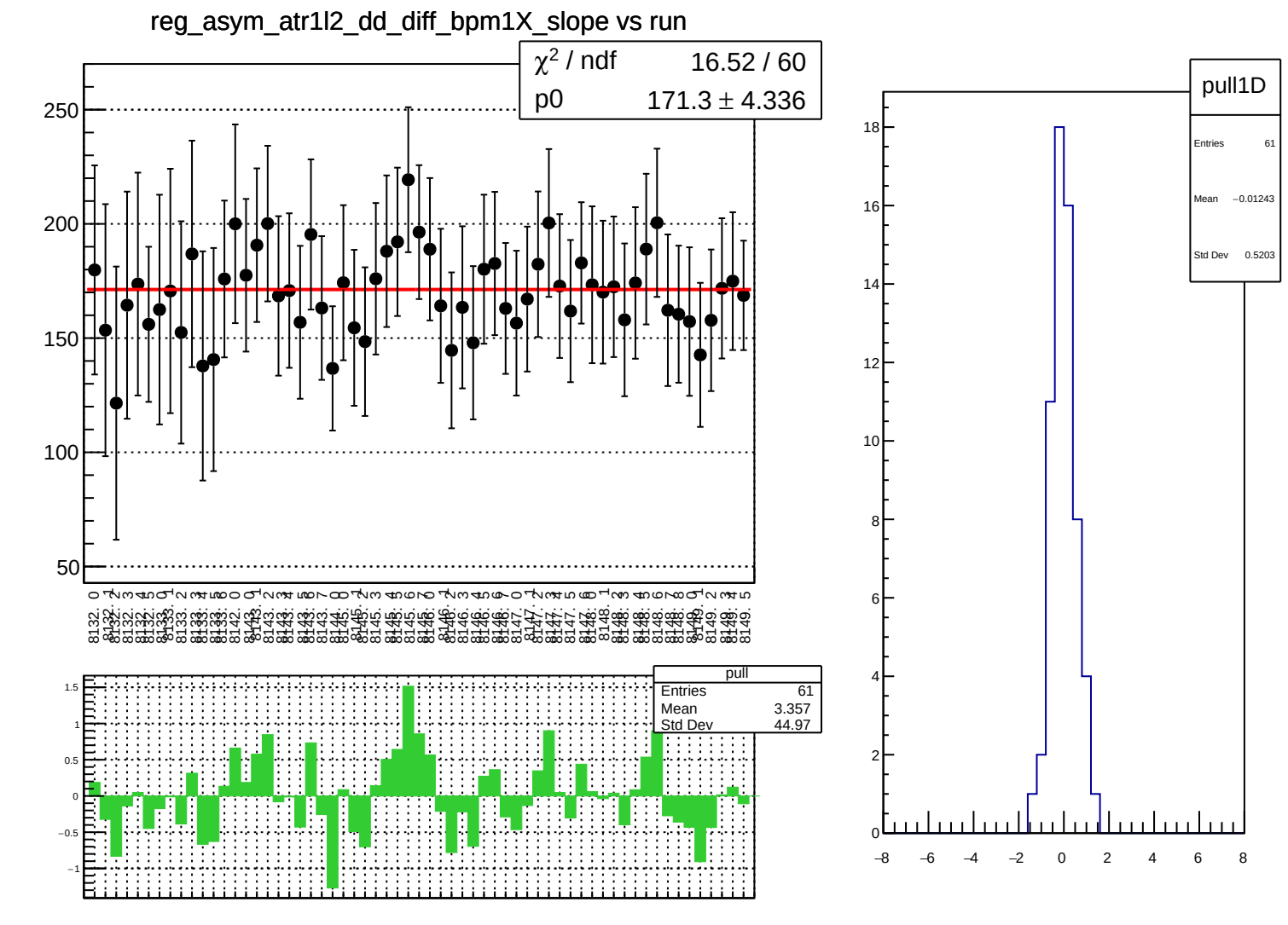

pull1D
Entries 61
Mean 0.06049
Std Dev 0.4392

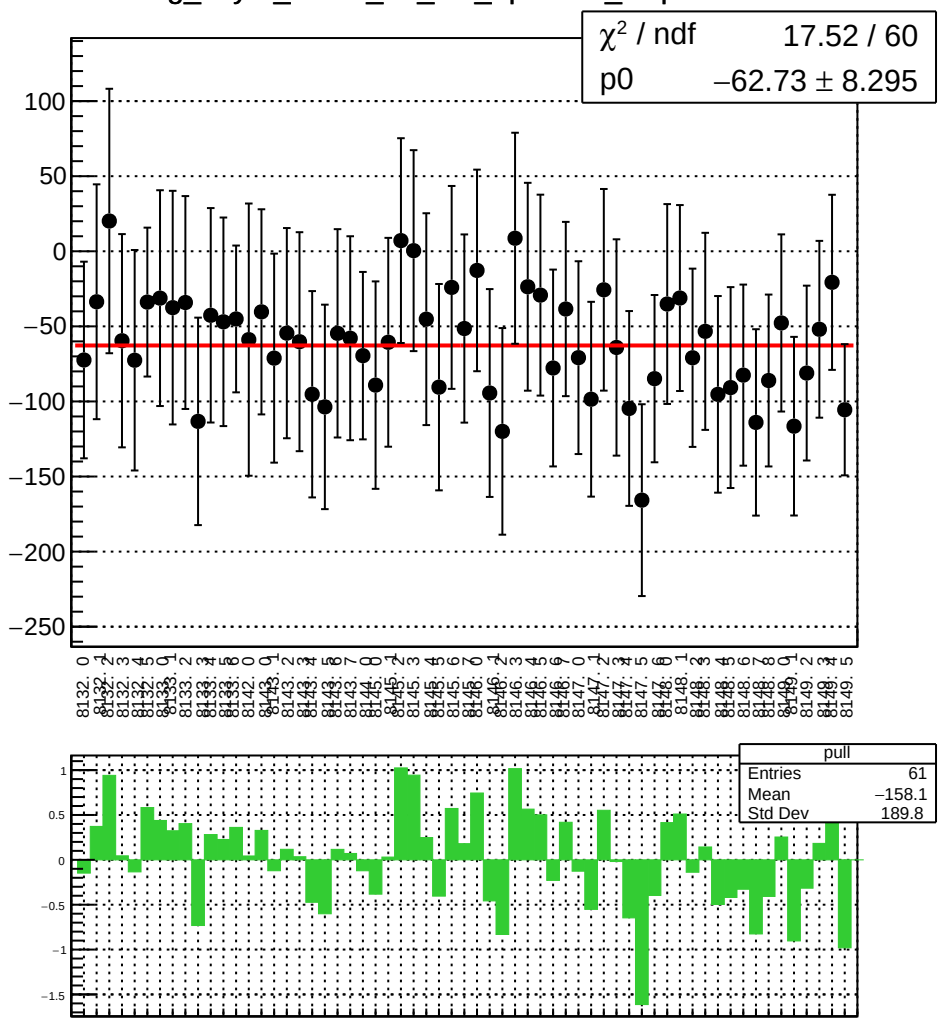

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 94.7 / 60
p0 196.3 ± 5.837
pull
Entries 61
Mean 167.4
Std Dev 140.6
pull1D
Entries 61
Mean 0.1132
Std Dev 1.241

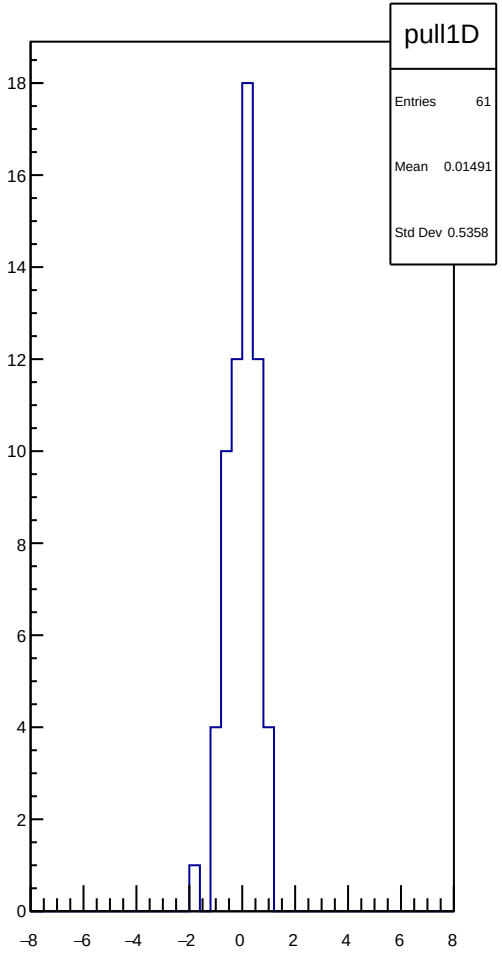

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.017 / 60
p0 −5.547 ± 11.32
pull
Entries 61
Mean 73.38
Std Dev 43.21

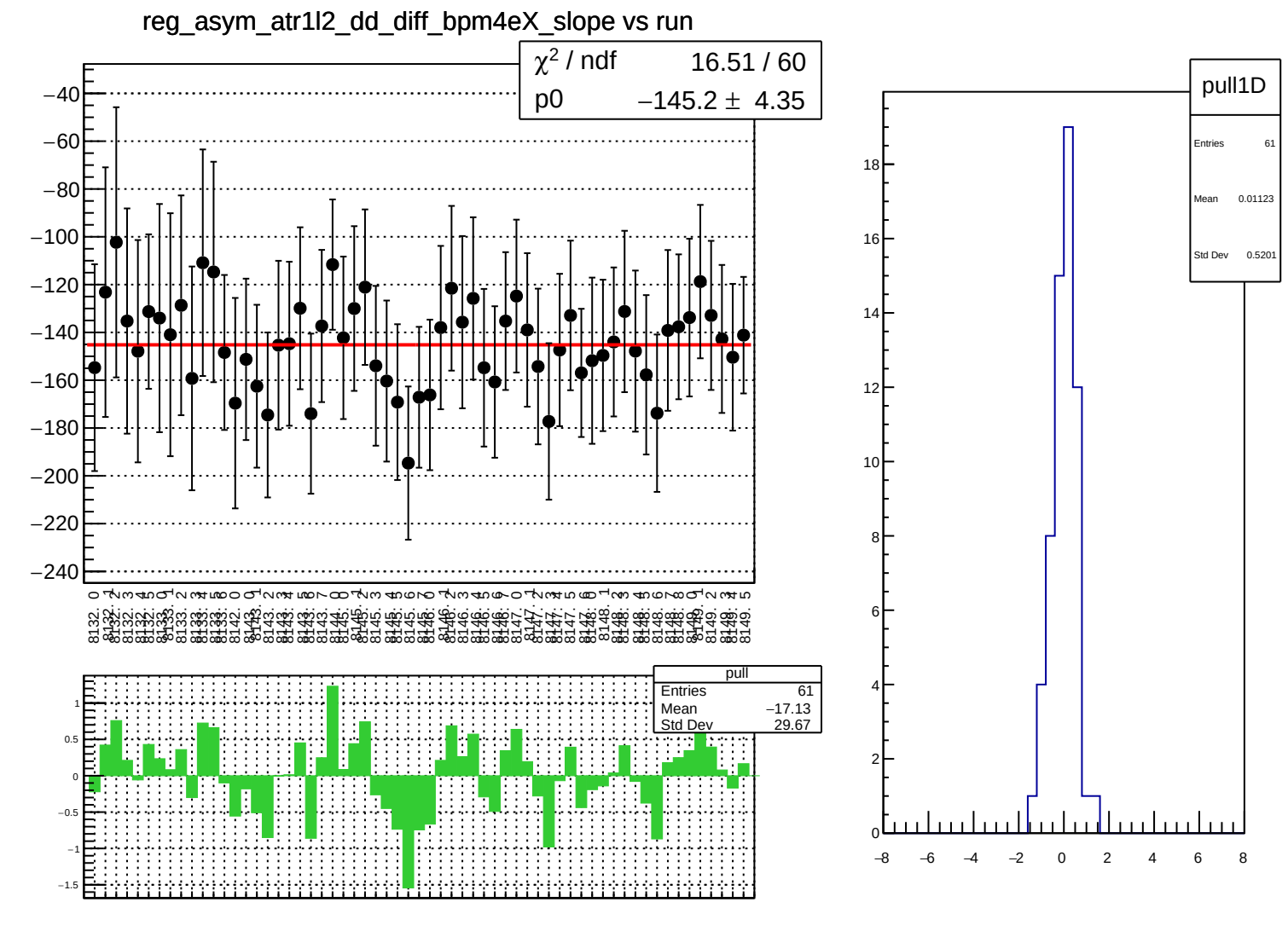

pull1D
Entries 61
Mean −0.03159
Std Dev 0.3832

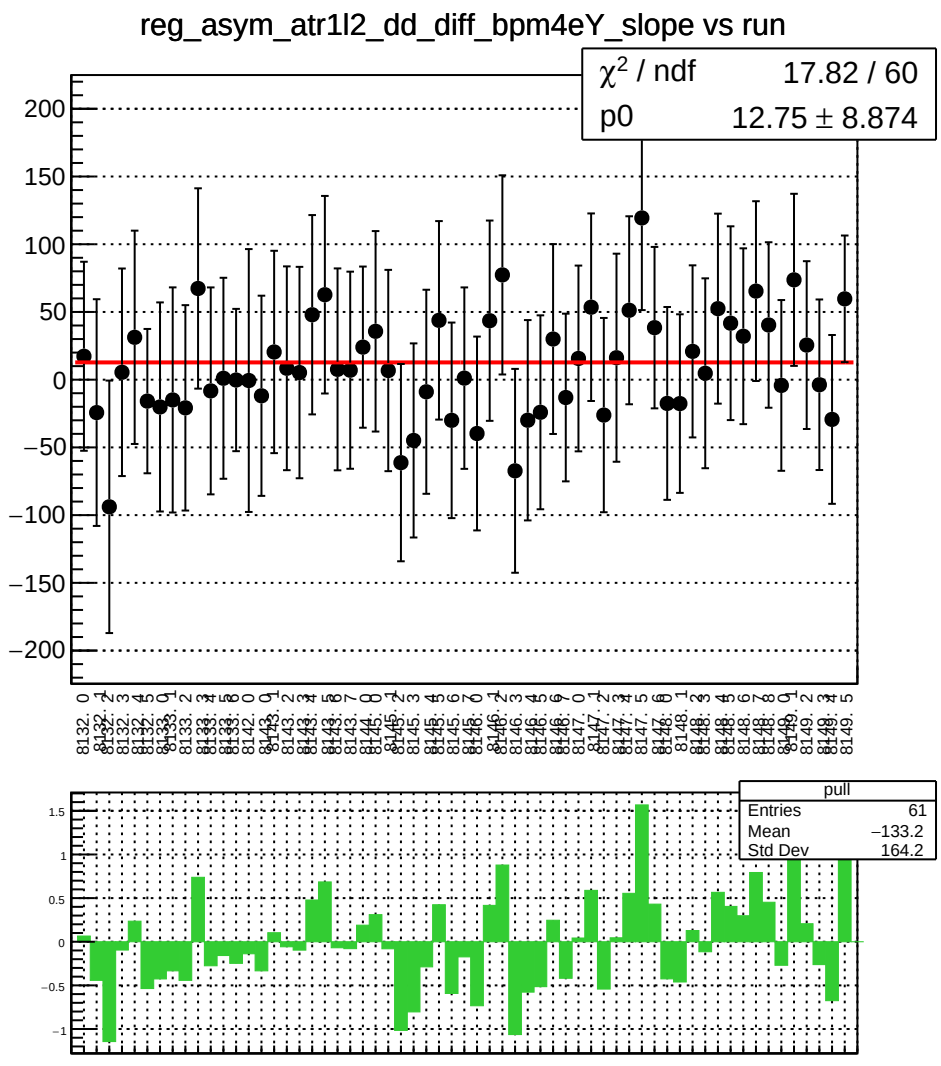

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 4597 / 60
p0 −150.3 ± 0.4598
pull
Entries 61
Mean 76.06
Std Dev 47.49
pull1D
Entries 61
Mean −6.511
Std Dev 0.6937

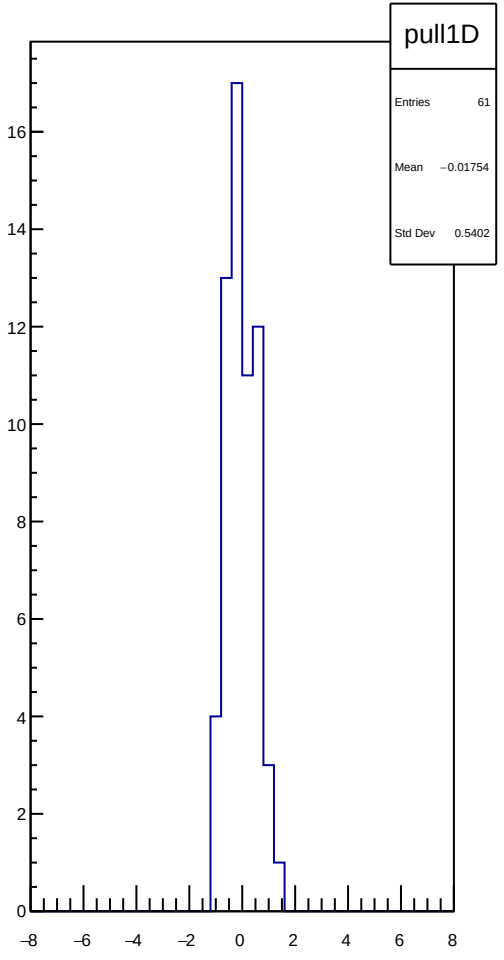

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 16.52 / 60
p0 171.3 ± 4.336
pull
Entries 61
Mean 3.357
Std Dev 44.97
pull1D
Entries 61
Mean −0.01243
Std Dev 0.5203

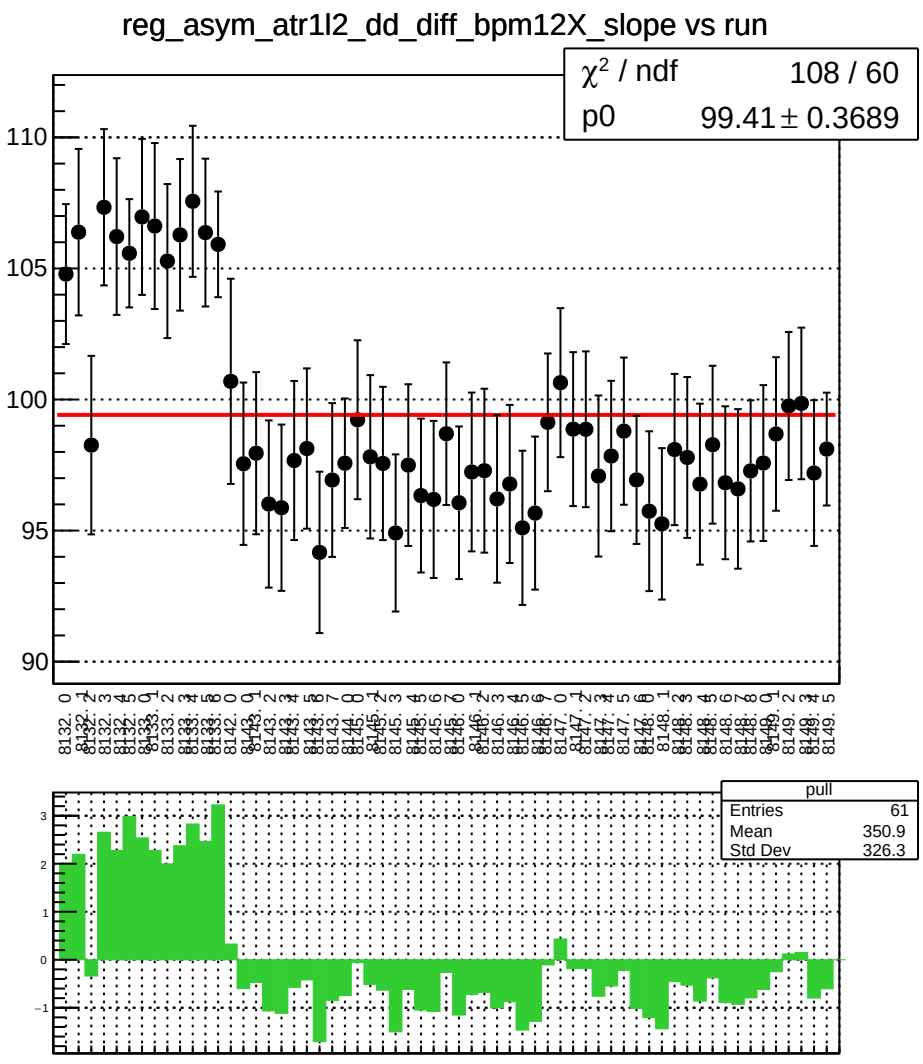

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.52 / 60
p0 −62.73 ± 8.295
pull
Entries 61
Mean −158.1
Std Dev 189.8

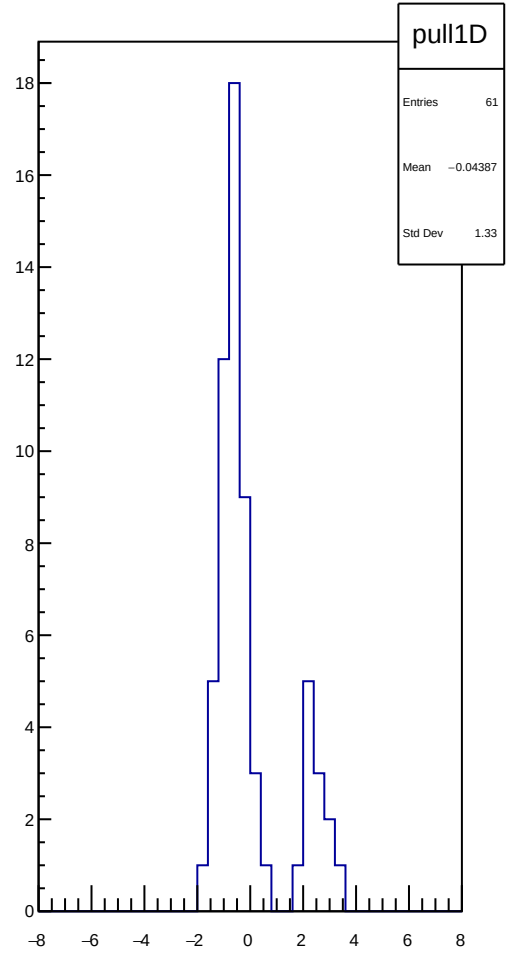

pull1D
Entries 61
Mean 0.01491
Std Dev 0.5358

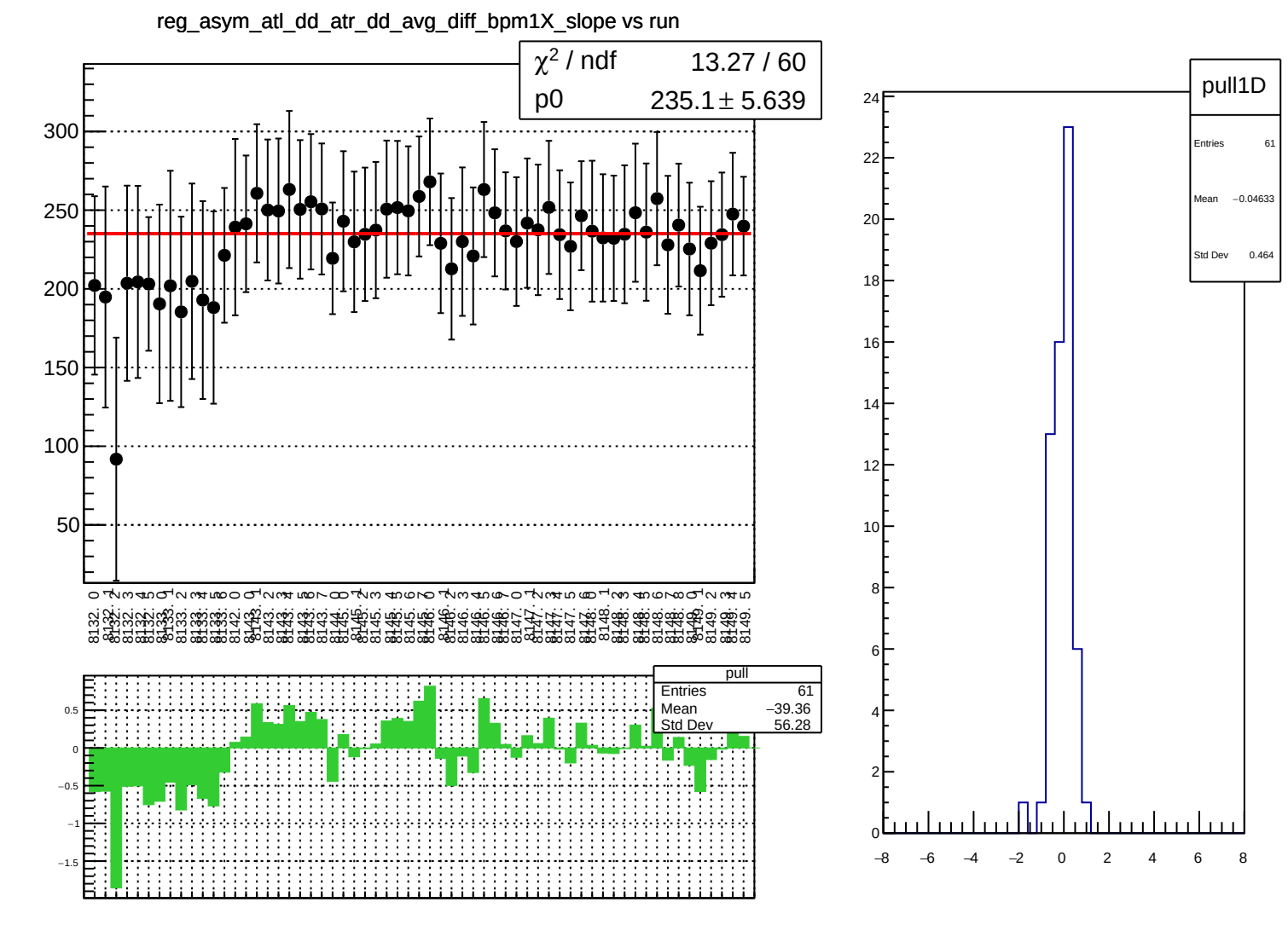

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.51 / 60
p0 −145.2 ± 4.35
pull
Entries 61
Mean −17.13
Std Dev 29.67
pull1D
Entries 61
Mean 0.01123
Std Dev 0.5201

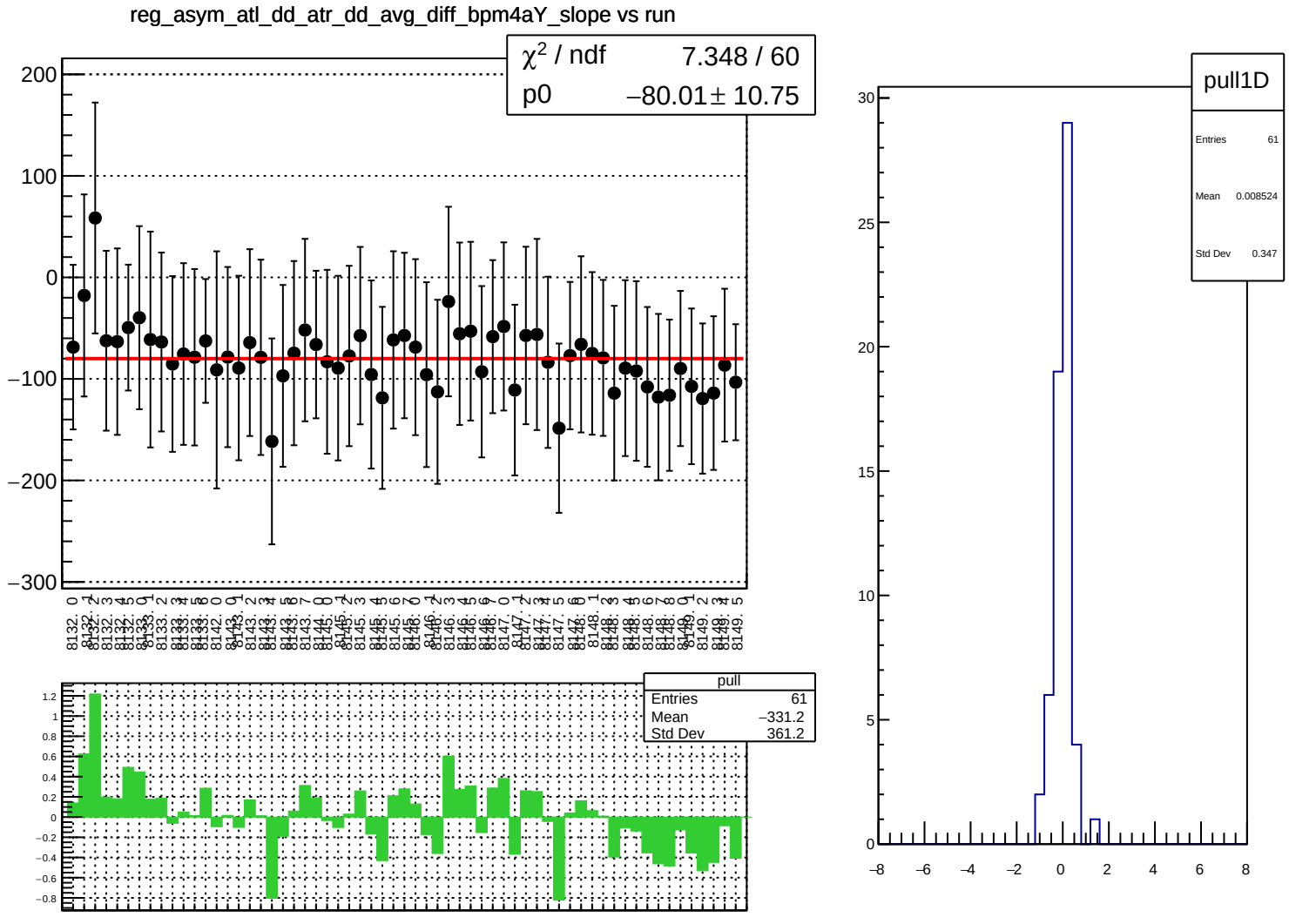

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.82 / 60
p0 12.75 ± 8.874
pull
Entries 61
Mean −133.2
Std Dev 164.2

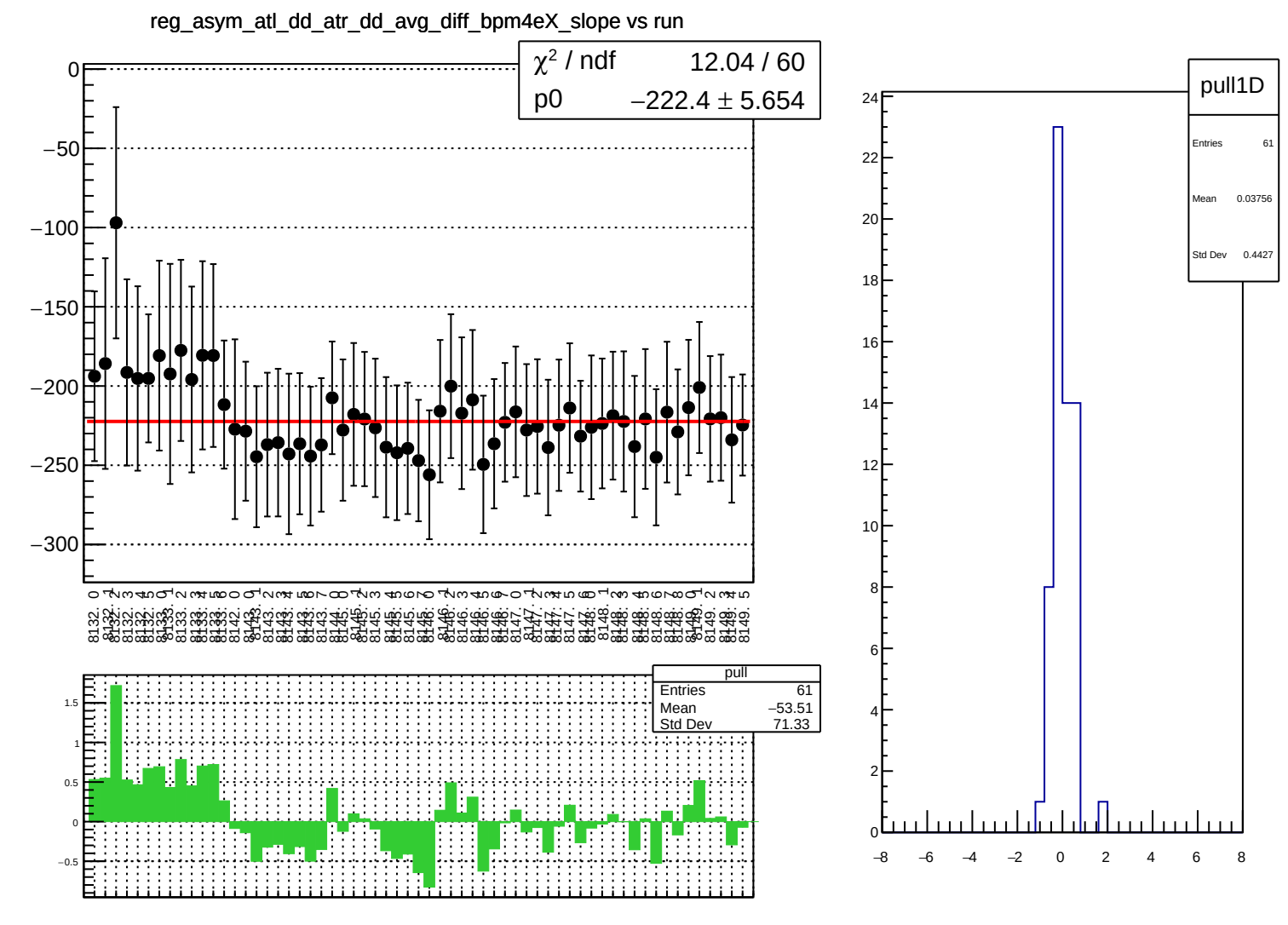

pull1D
Entries 61
Mean −0.01754
Std Dev 0.5402

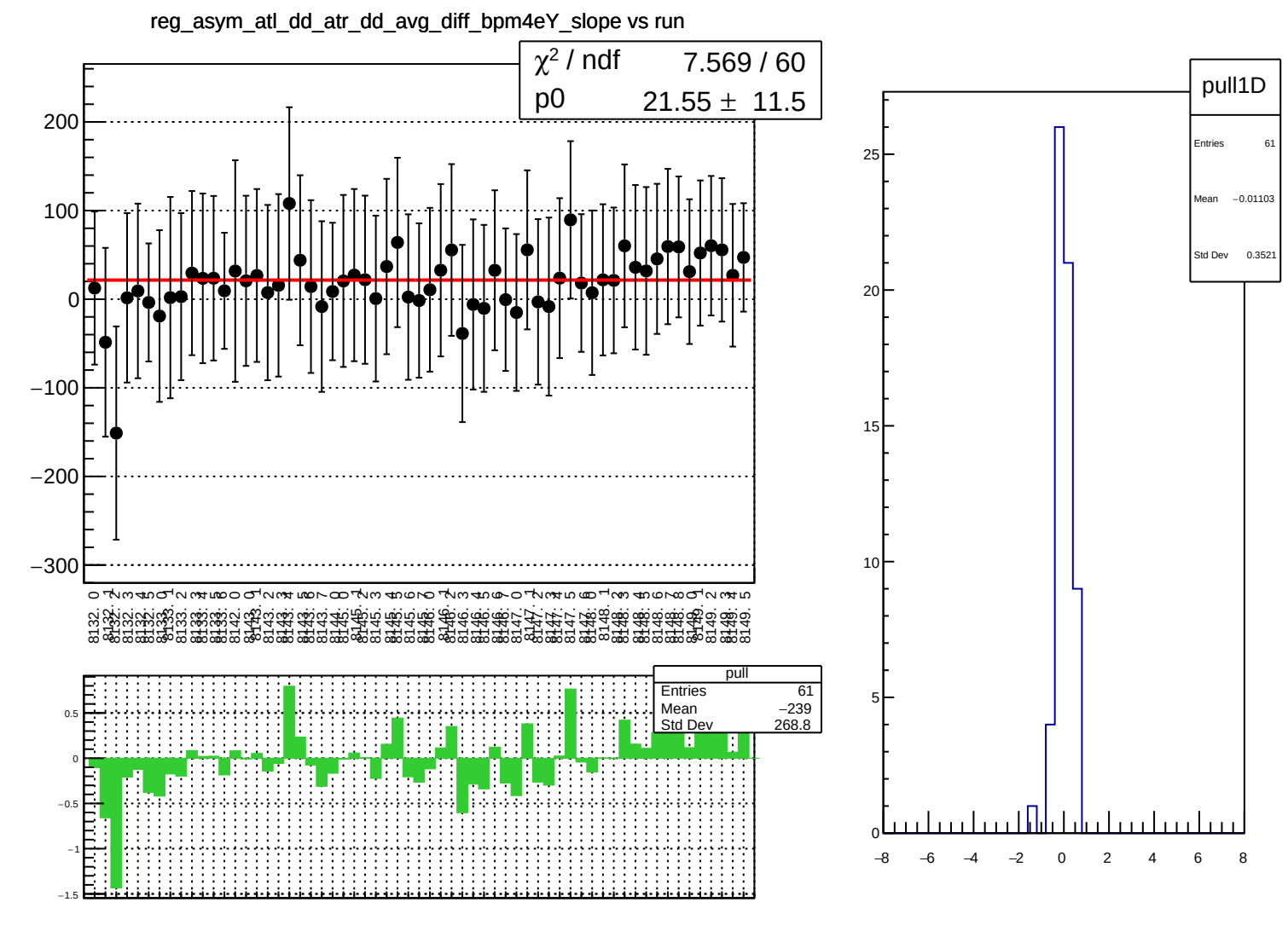

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 108 / 60
p0 99.41 ± 0.3689
110
105
100
95
90
pull
Entries 61
Mean 350.9
Std Dev 326.3
3
2
1
0
−1

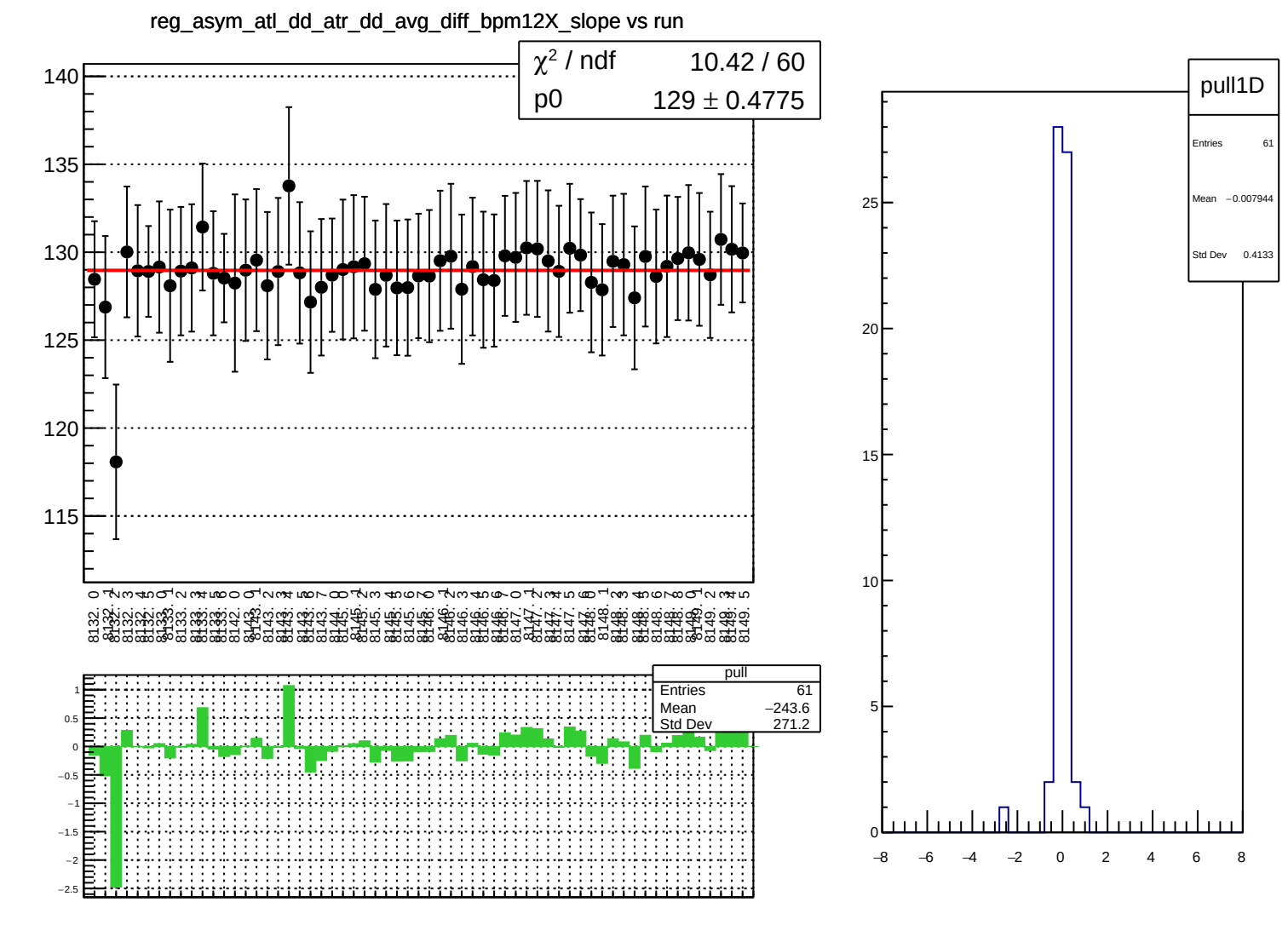

pull1D
Entries 61
Mean −0.04387
Std Dev 1.33
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

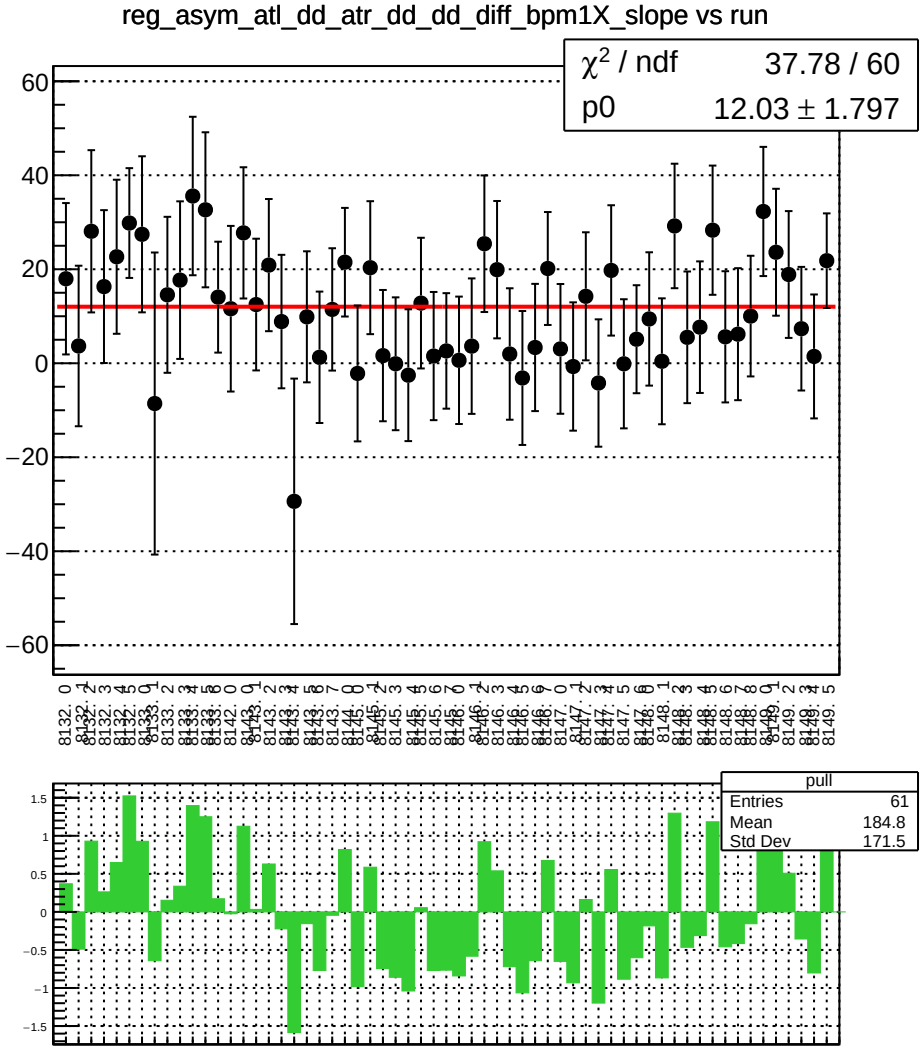

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 13.27 / 60
p0 235.1 ± 5.639
300
250
200
150
100
50
pull
Entries 61
Mean −39.36
Std Dev 56.28
0.5
0
−0.5
−1
−1.5
pull1D
Entries 61
Mean −0.04633
Std Dev 0.464
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

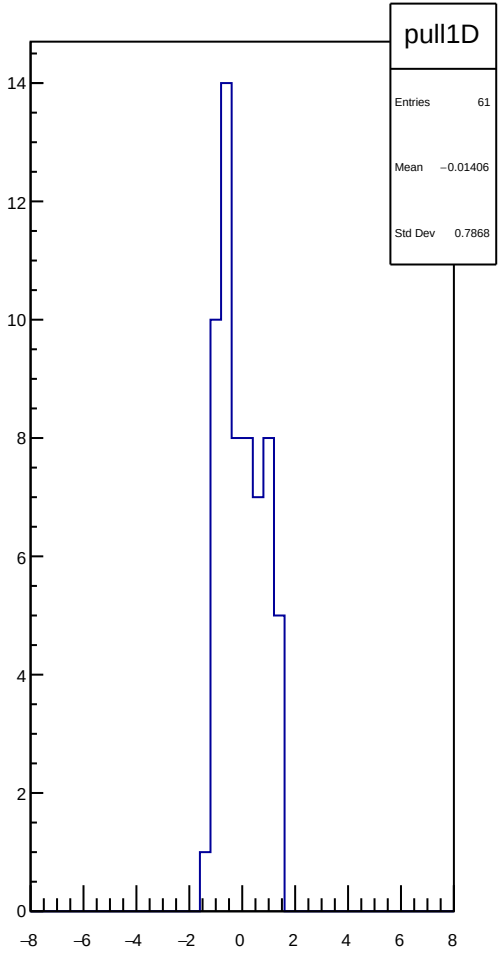

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.348 / 60
p0 −80.01 ± 10.75
pull
Entries 61
Mean −331.2
Std Dev 361.2
pull1D
Entries 61
Mean 0.008524
Std Dev 0.347

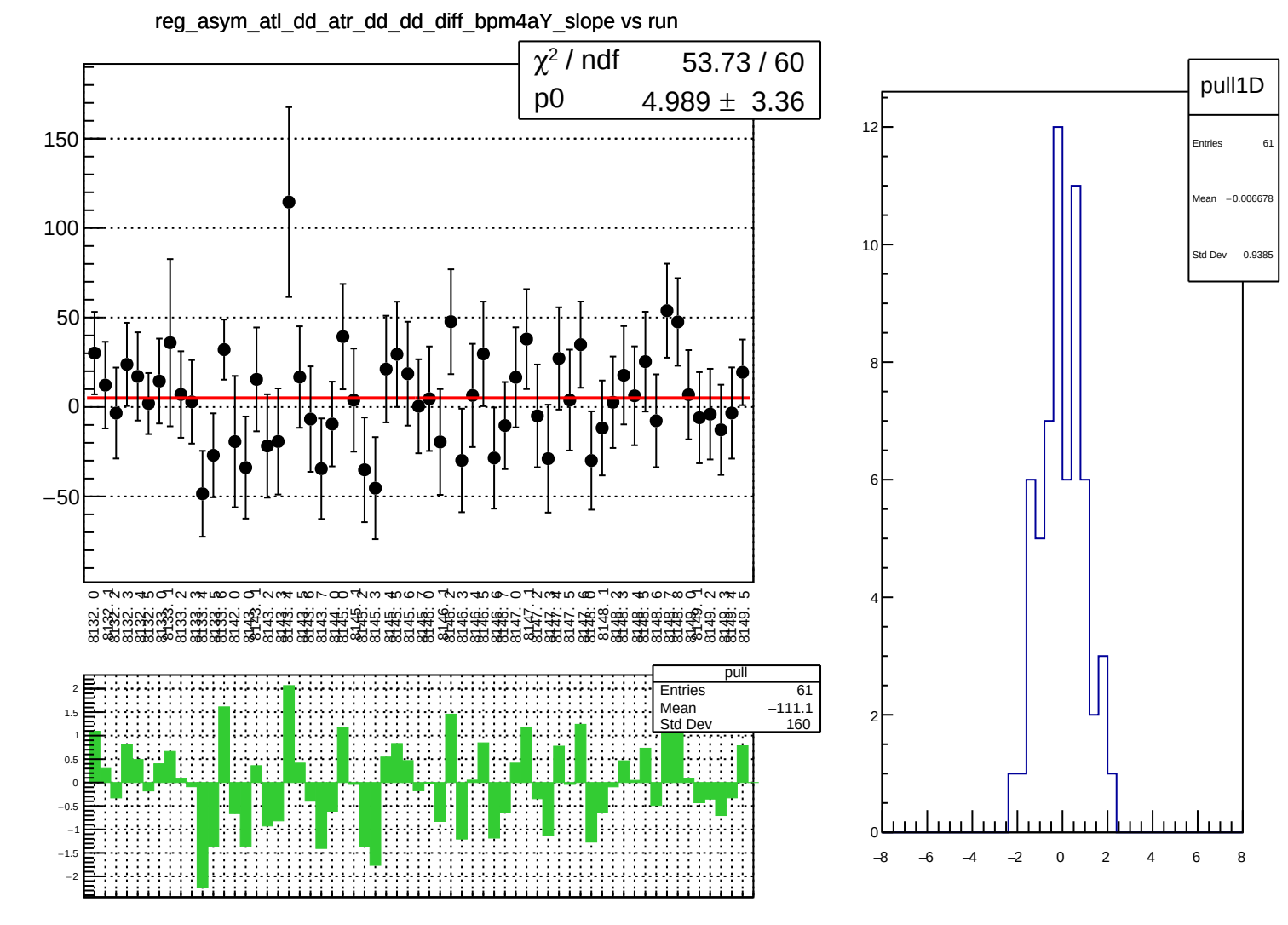

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.04 / 60
p0 −222.4 ± 5.654
pull
Entries 61
Mean −53.51
Std Dev 71.33
pull1D
Entries 61
Mean 0.03756
Std Dev 0.4427

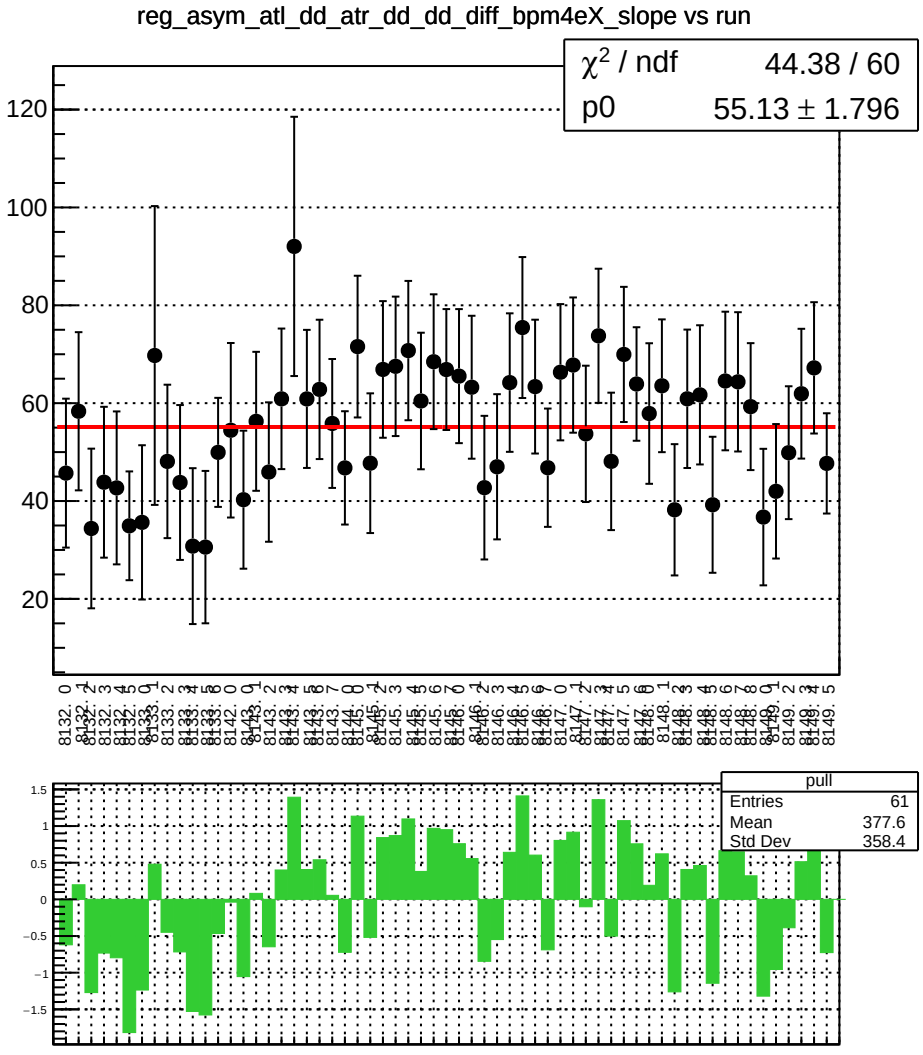

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.569 / 60
p0 21.55 ± 11.5
pull
Entries 61
Mean −239
Std Dev 268.8
pull1D
Entries 61
Mean −0.01103
Std Dev 0.3521

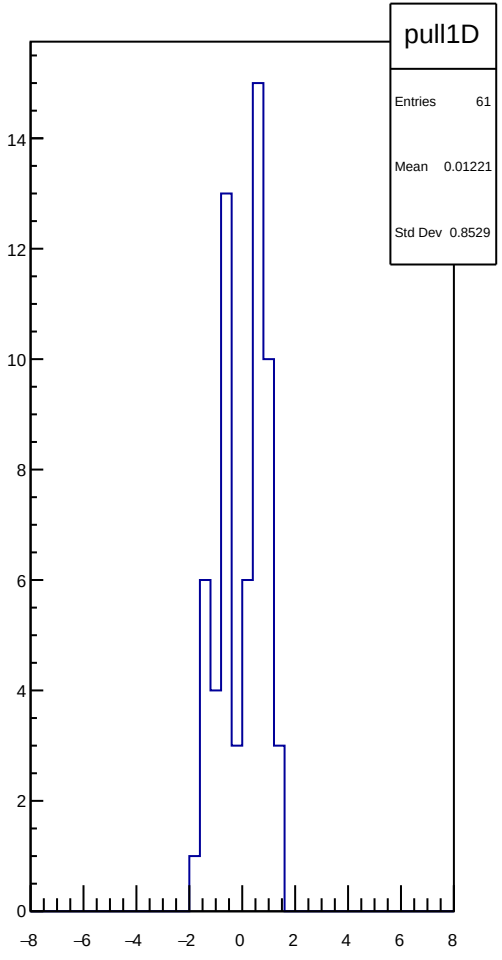

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 10.42 / 60
p0 129 ± 0.4775
pull
Entries 61
Mean −243.6
Std Dev 271.2
pull1D
Entries 61
Mean −0.007944
Std Dev 0.4133

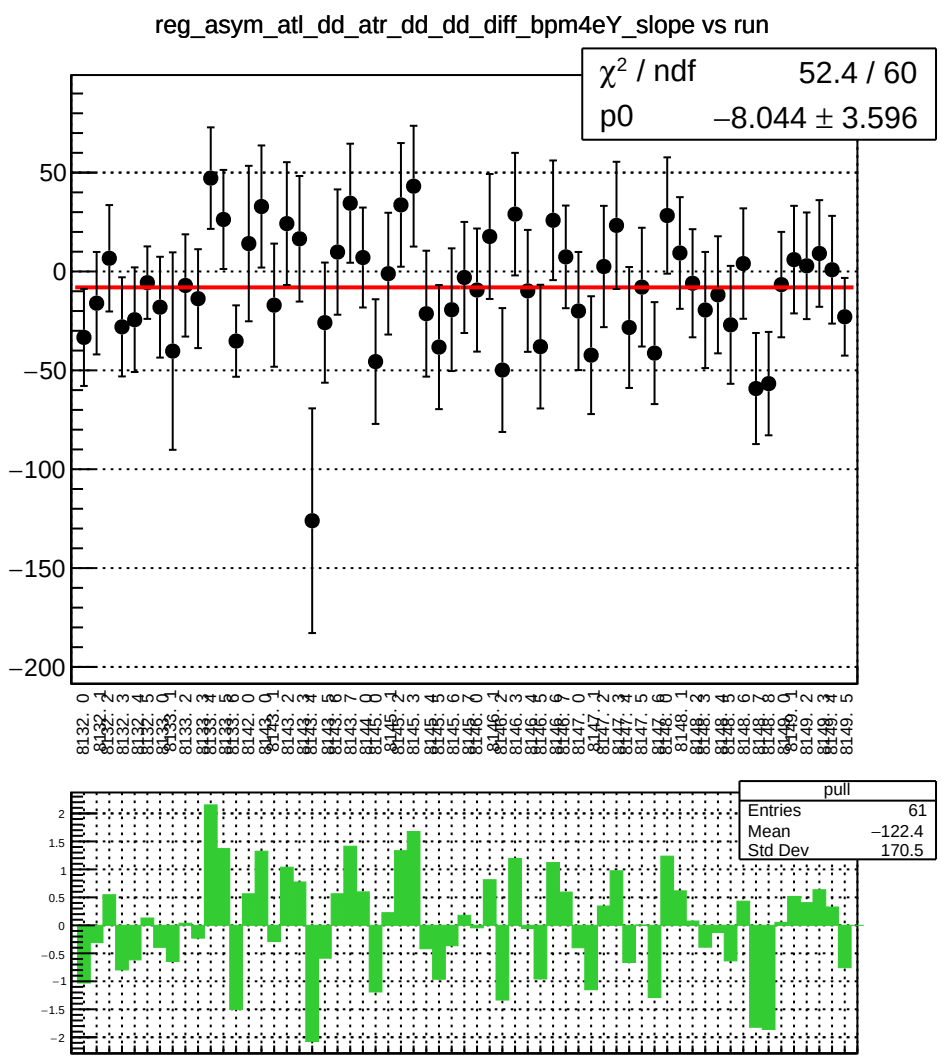

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 37.78 / 60
p0 12.03 ± 1.797
pull
Entries 61
Mean 184.8
Std Dev 171.5

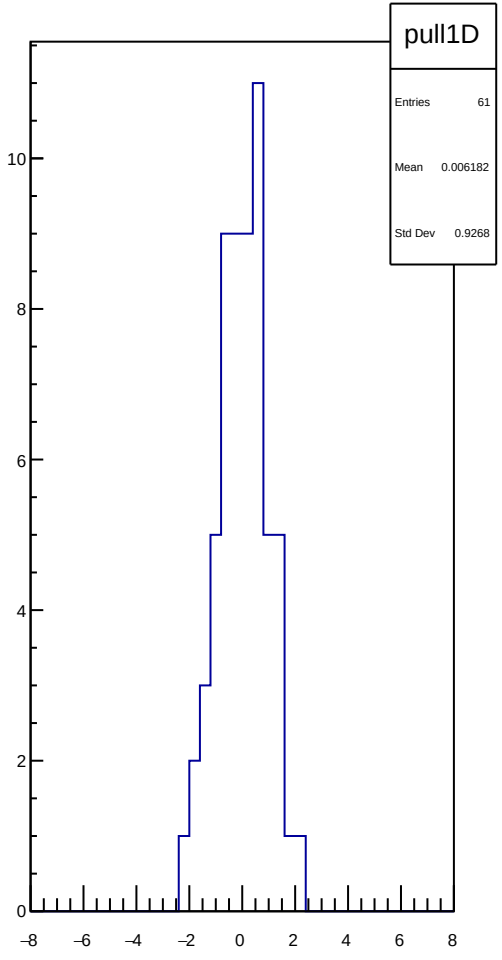

pull1D
Entries 61
Mean −0.01406
Std Dev 0.7868

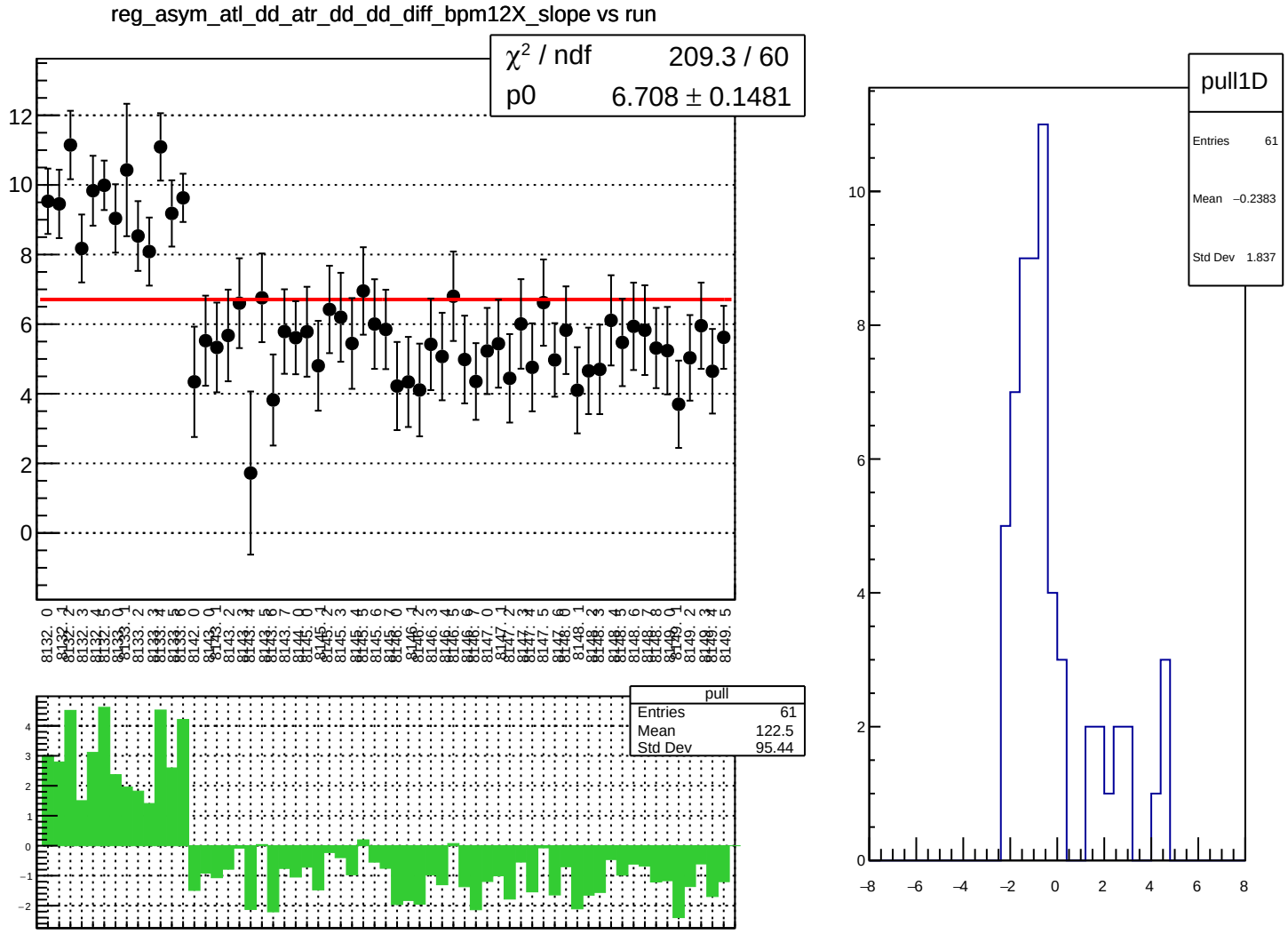

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.73 / 60
p0 4.989 ± 3.36
150
100
50
0
−50
pull
Entries 61
Mean −111.1
Std Dev 160
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 61
Mean −0.006678
Std Dev 0.9385
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

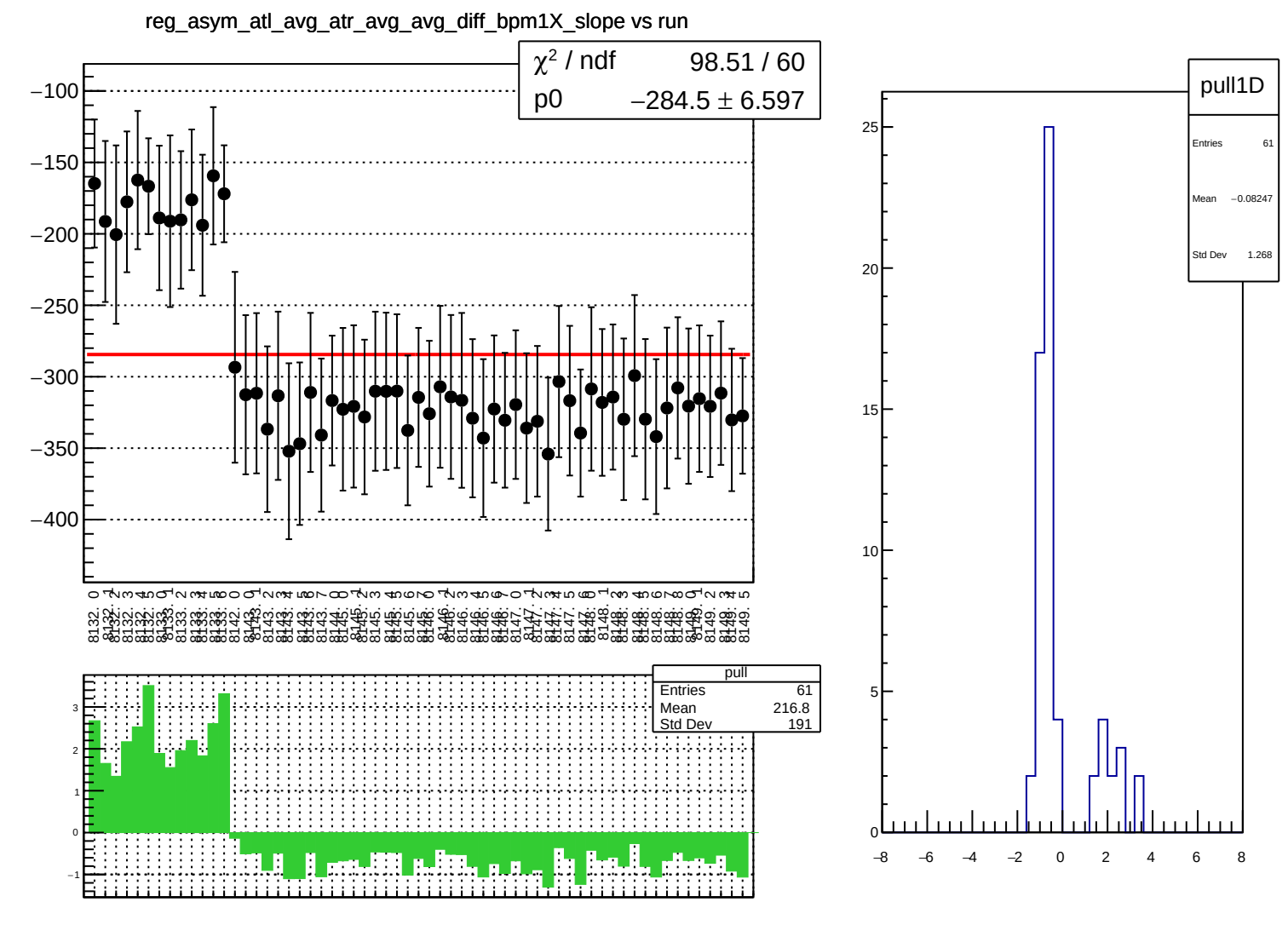

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.38 / 60
p0 55.13 ± 1.796
pull
Entries 61
Mean 377.6
Std Dev 358.4

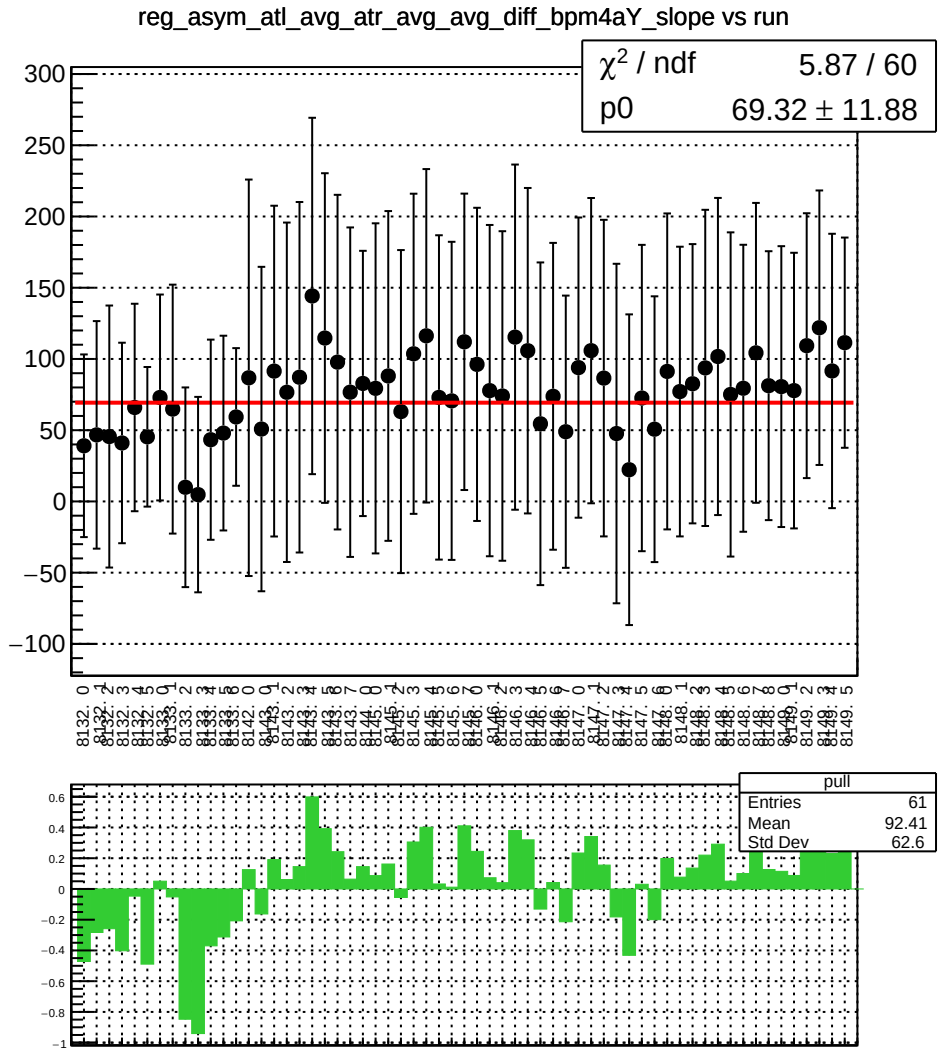

pull1D
Entries 61
Mean 0.01221
Std Dev 0.8529

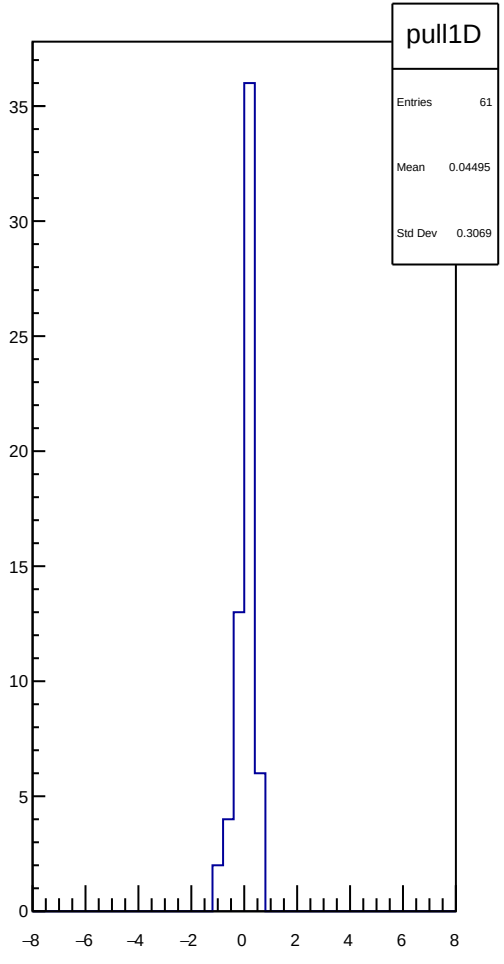

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.4 / 60
p0 −8.044 ± 3.596
pull
Entries 61
Mean −122.4
Std Dev 170.5

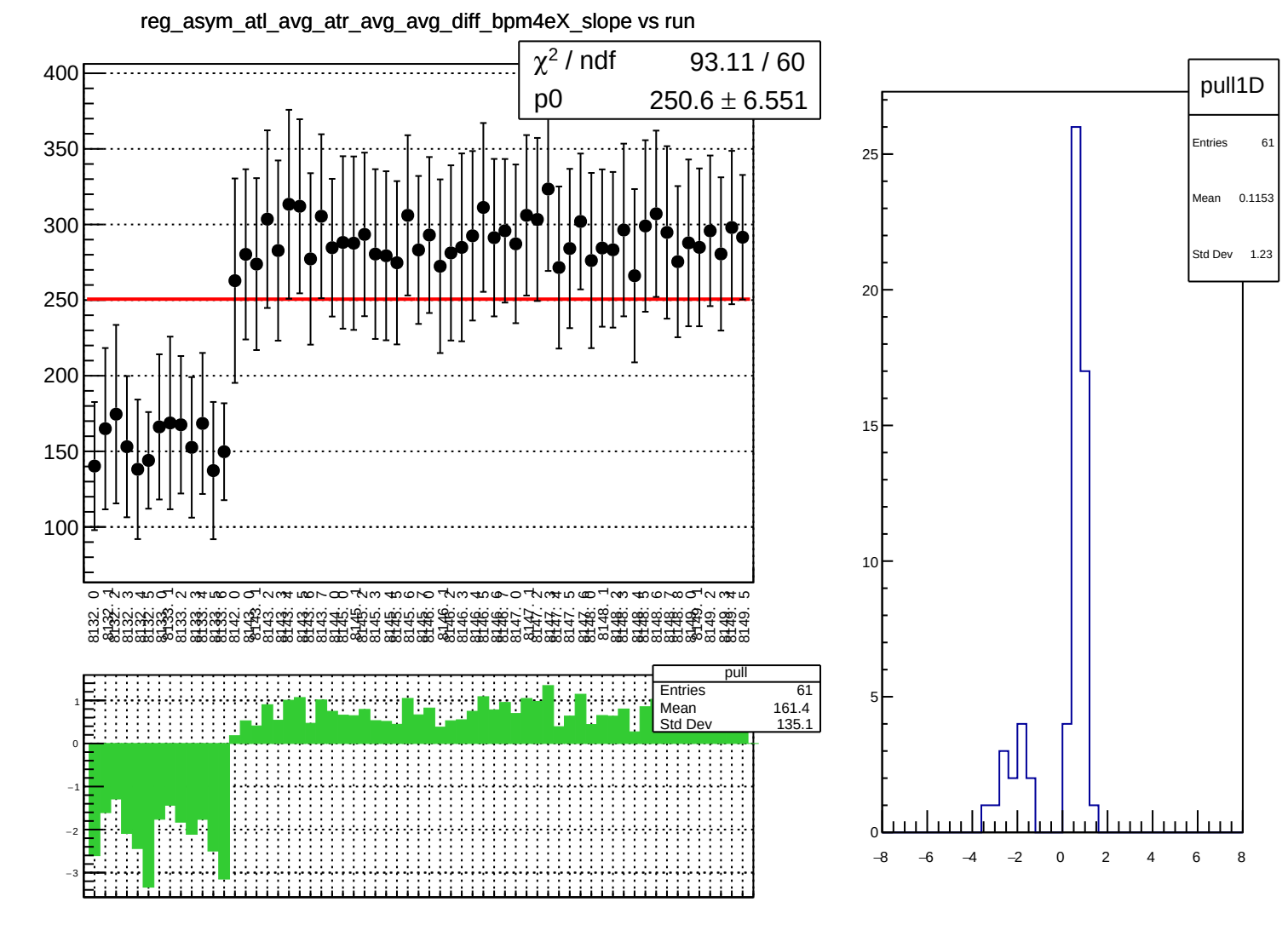

pull1D
Entries 61
Mean 0.006182
Std Dev 0.9268

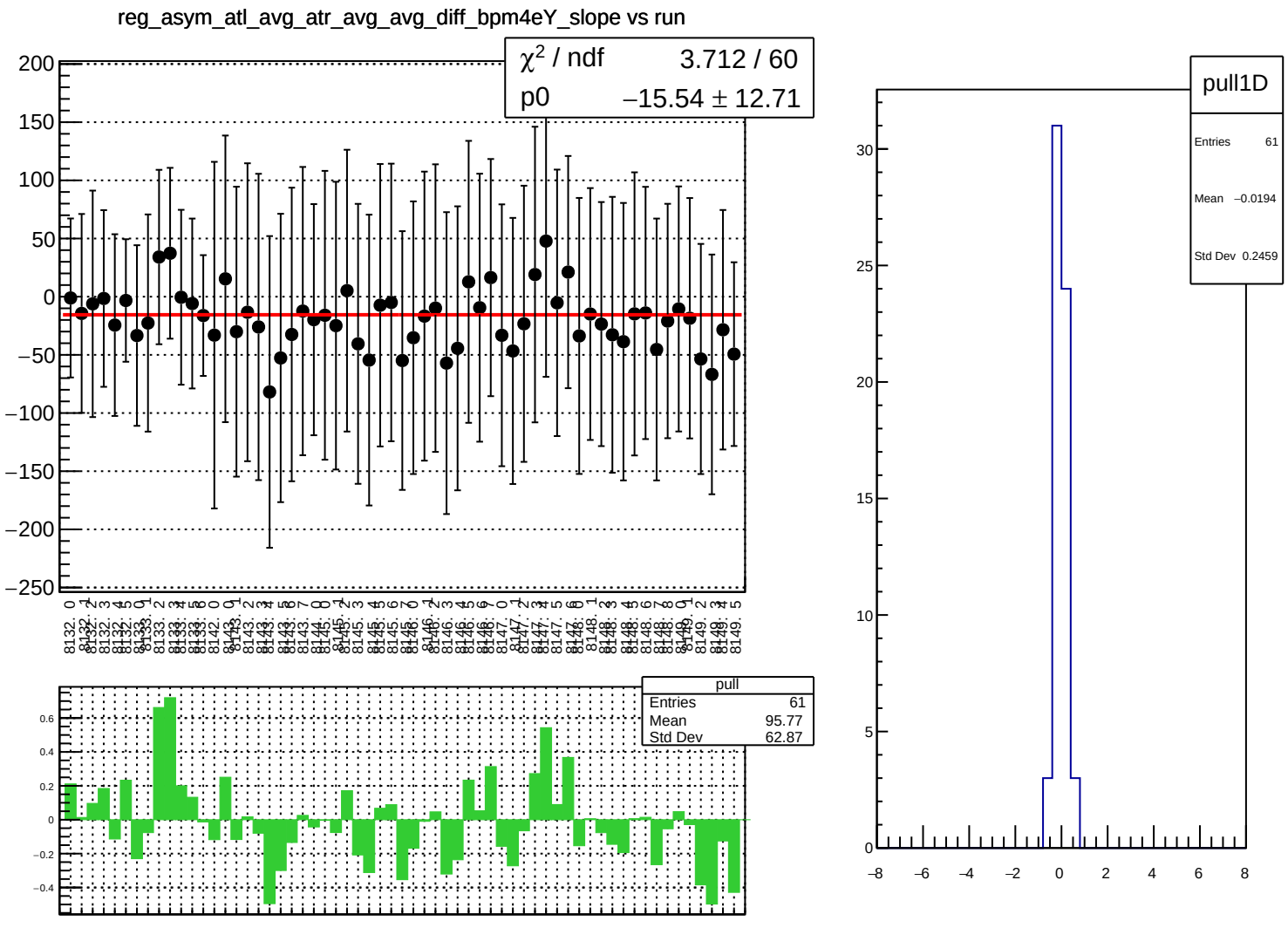

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 209.3 / 60
p0 6.708 ± 0.1481
pull
Entries 61
Mean 122.5
Std Dev 95.44
pull1D
Entries 61
Mean −0.2383
Std Dev 1.837

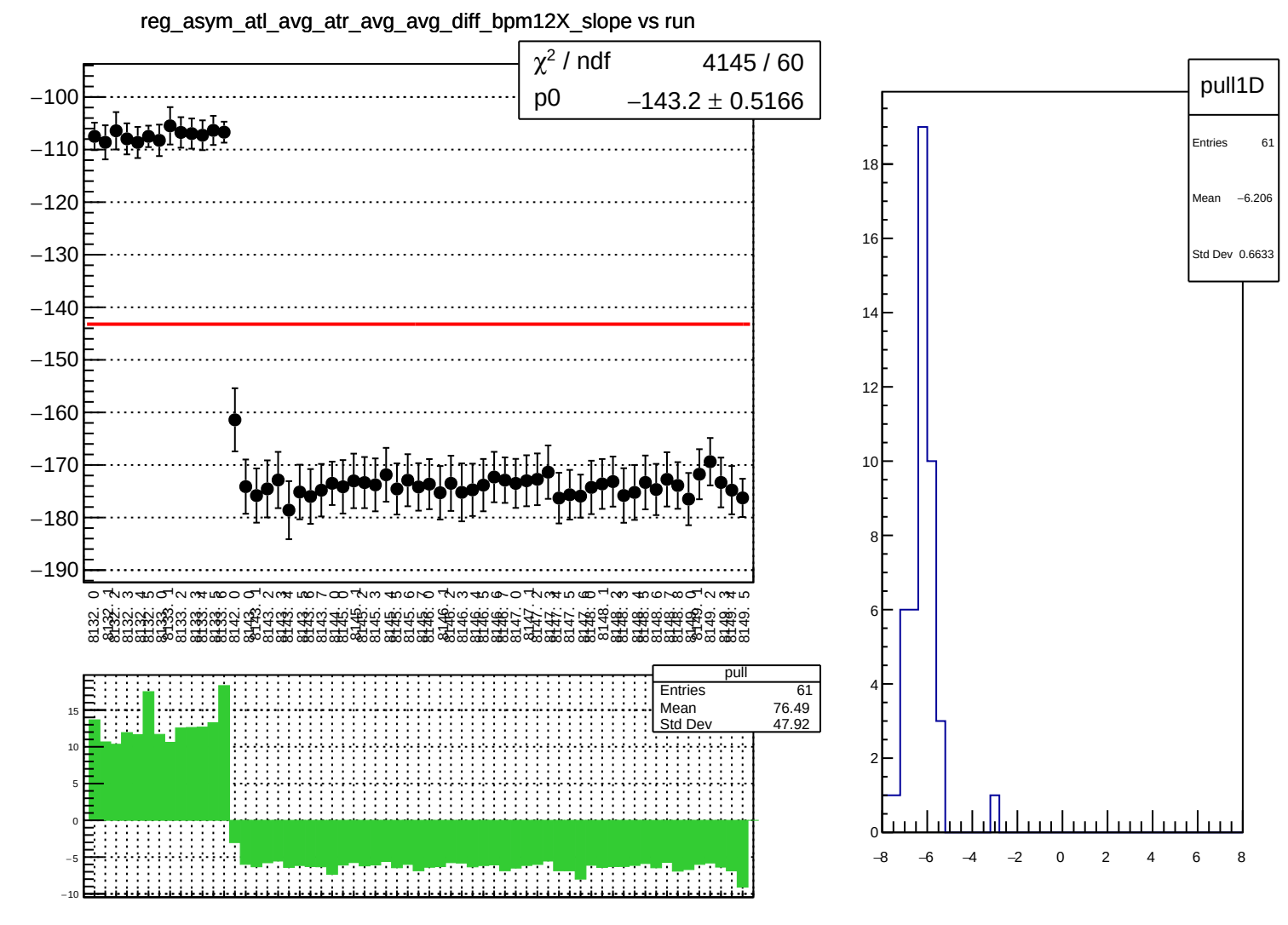

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 98.51 / 60
p0 −284.5 ± 6.597
pull
Entries 61
Mean 216.8
Std Dev 191
pull1D
Entries 61
Mean −0.08247
Std Dev 1.268

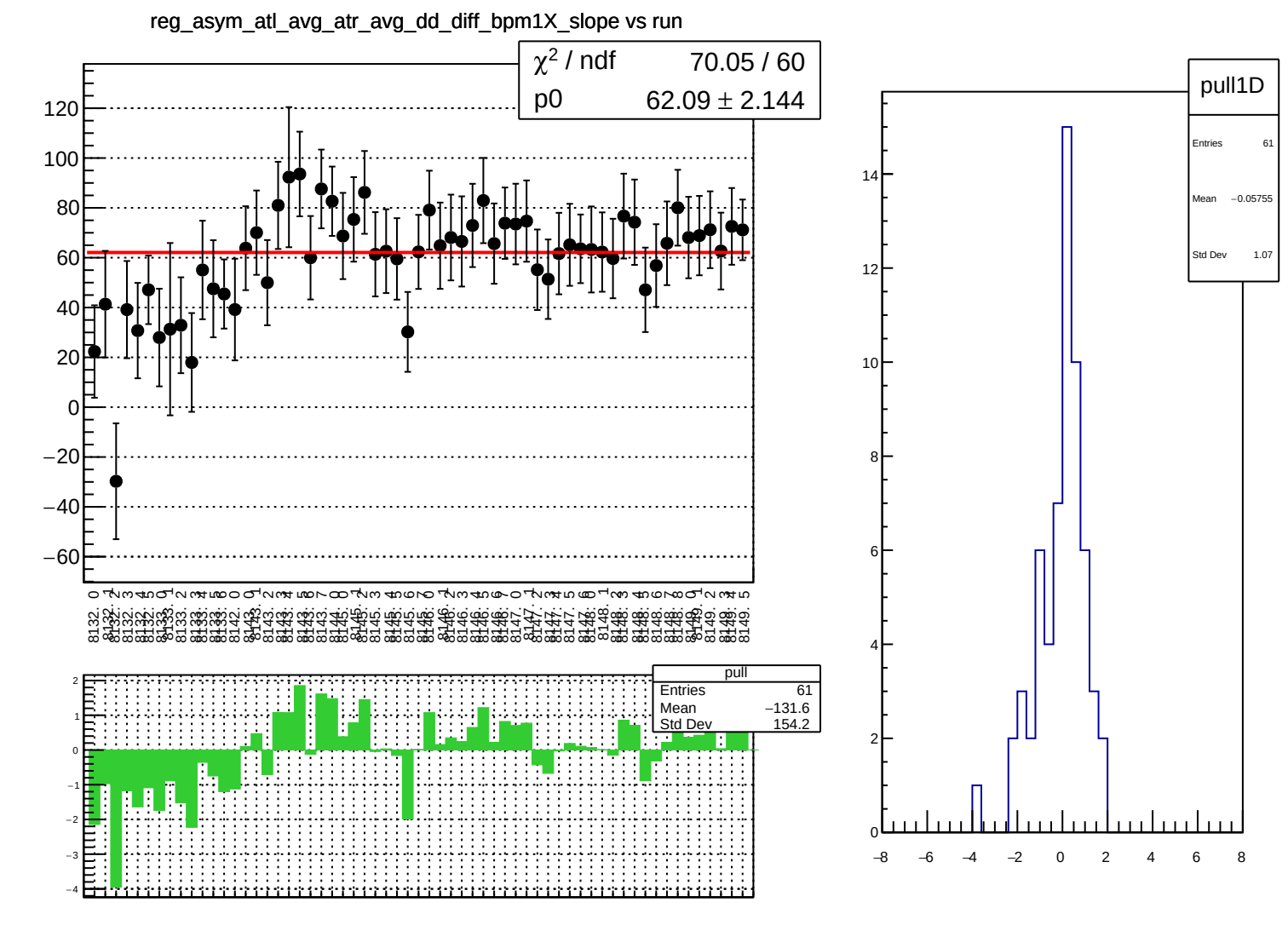

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.87 / 60
p0 69.32 ± 11.88
pull
Entries 61
Mean 92.41
Std Dev 62.6

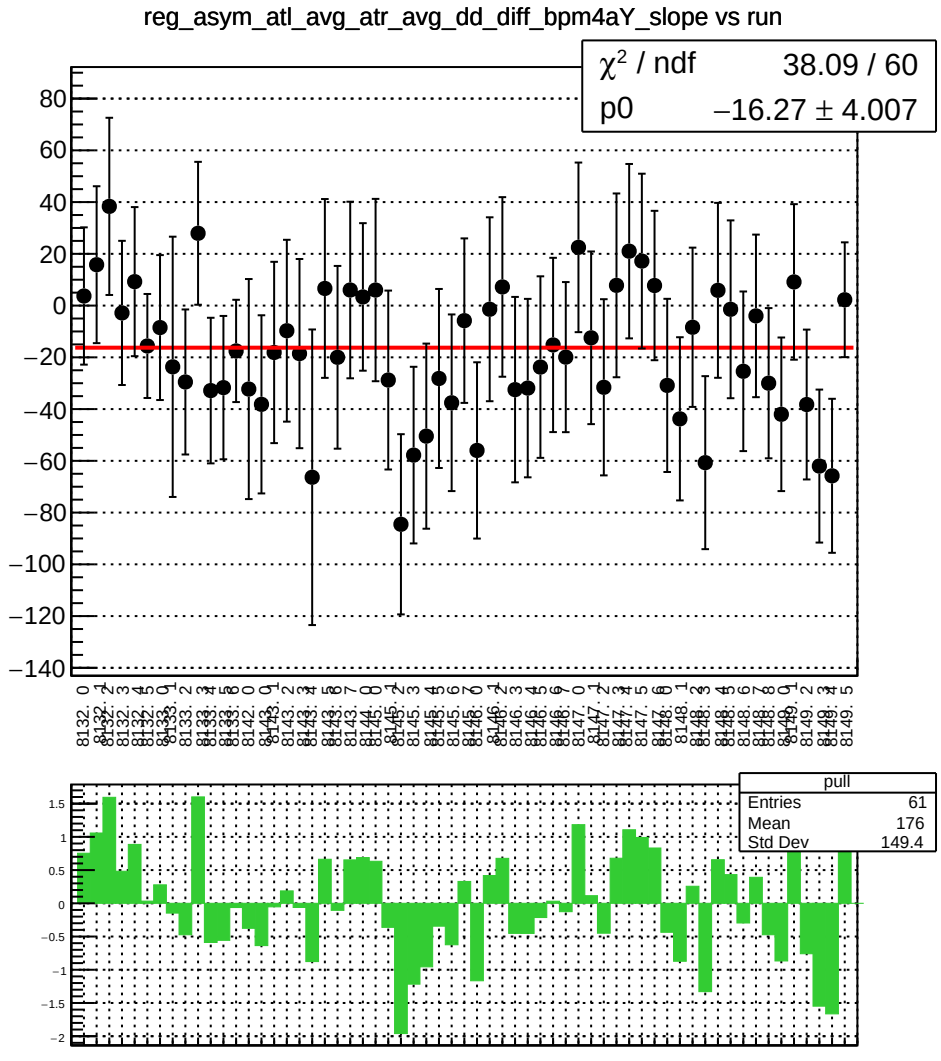

pull1D
Entries 61
Mean 0.04495
Std Dev 0.3069

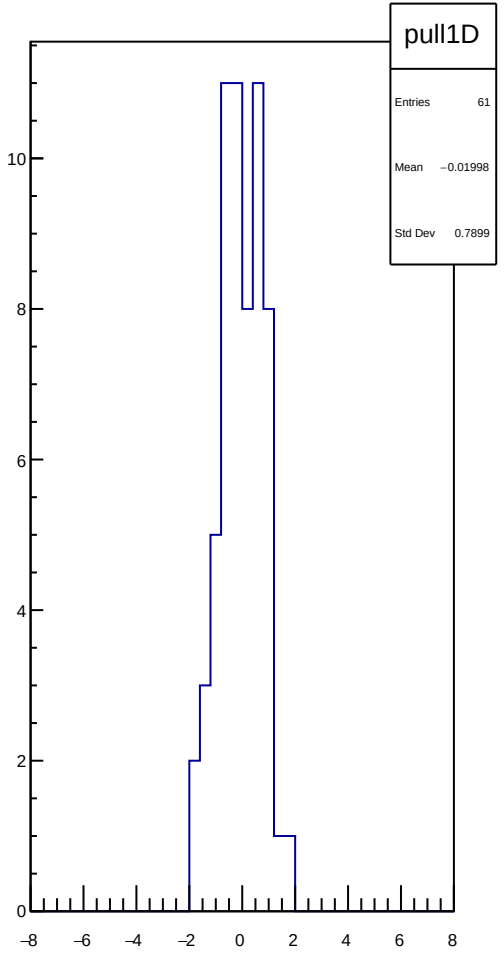

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 93.11 / 60
p0 250.6 ± 6.551
pull
Entries 61
Mean 161.4
Std Dev 135.1
pull1D
Entries 61
Mean 0.1153
Std Dev 1.23

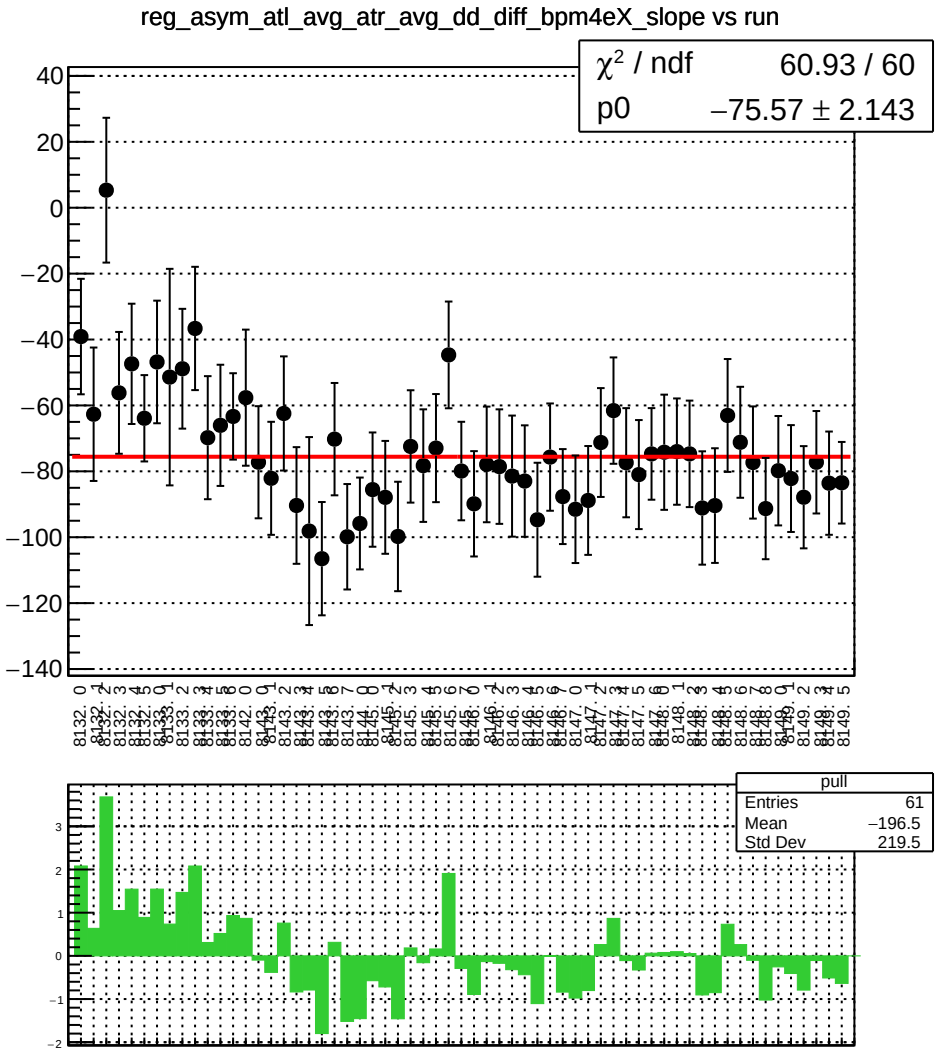

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.712 / 60
p0 −15.54 ± 12.71
pull
Entries 61
Mean 95.77
Std Dev 62.87
pull1D
Entries 61
Mean −0.0194
Std Dev 0.2459

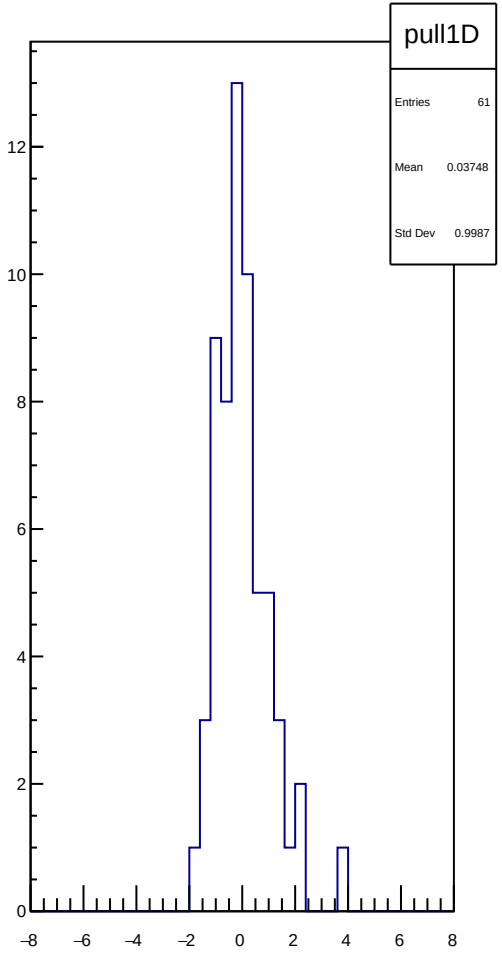

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 4145 / 60
p0 −143.2 ± 0.5166
pull
Entries 61
Mean 76.49
Std Dev 47.92
pull1D
Entries 61
Mean −6.206
Std Dev 0.6633

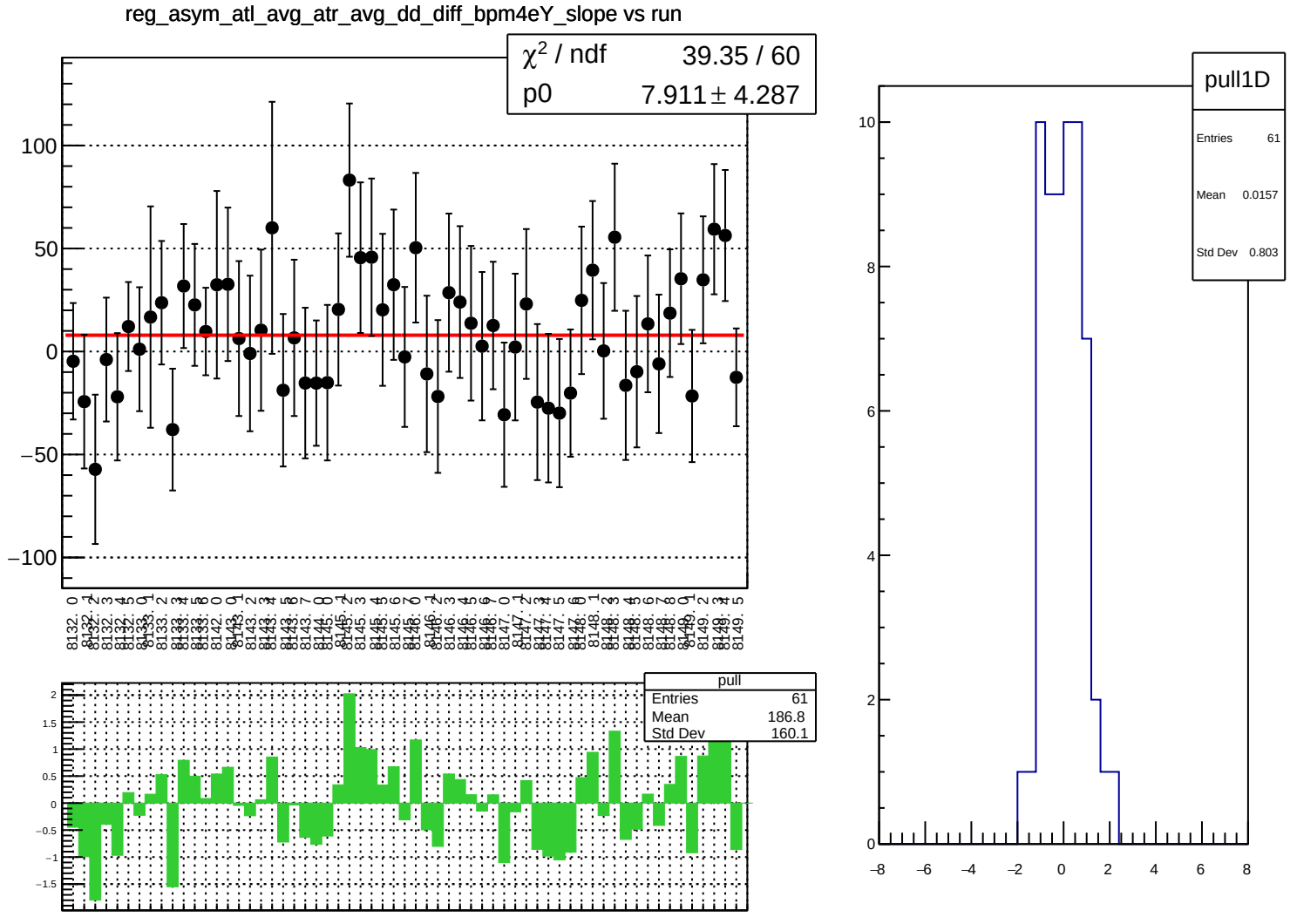

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 70.05 / 60
p0 62.09 ± 2.144
pull
Entries 61
Mean −131.6
Std Dev 154.2
pull1D
Entries 61
Mean −0.05755
Std Dev 1.07

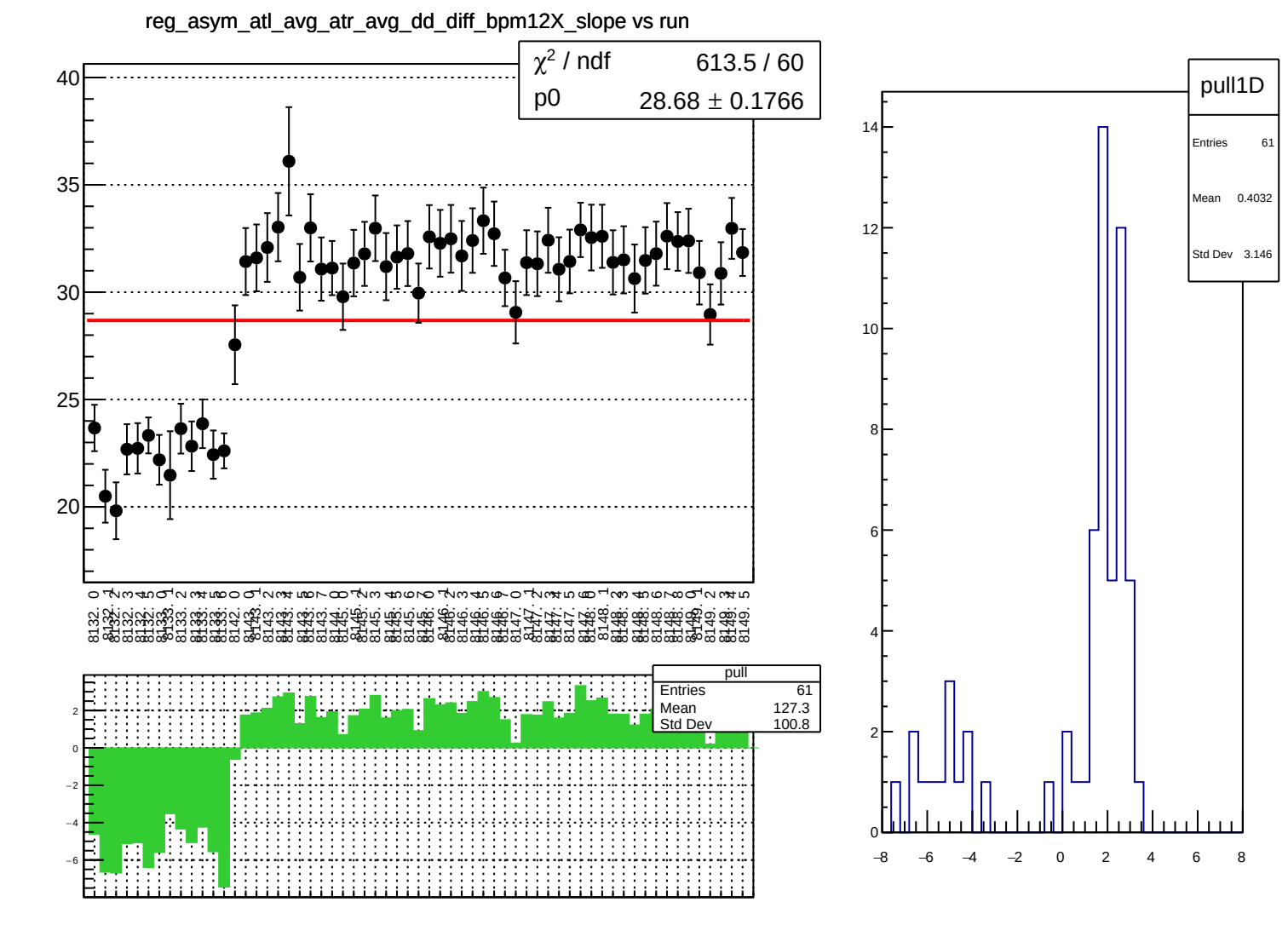

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.09 / 60
p0 −16.27 ± 4.007
pull
Entries 61
Mean 176
Std Dev 149.4

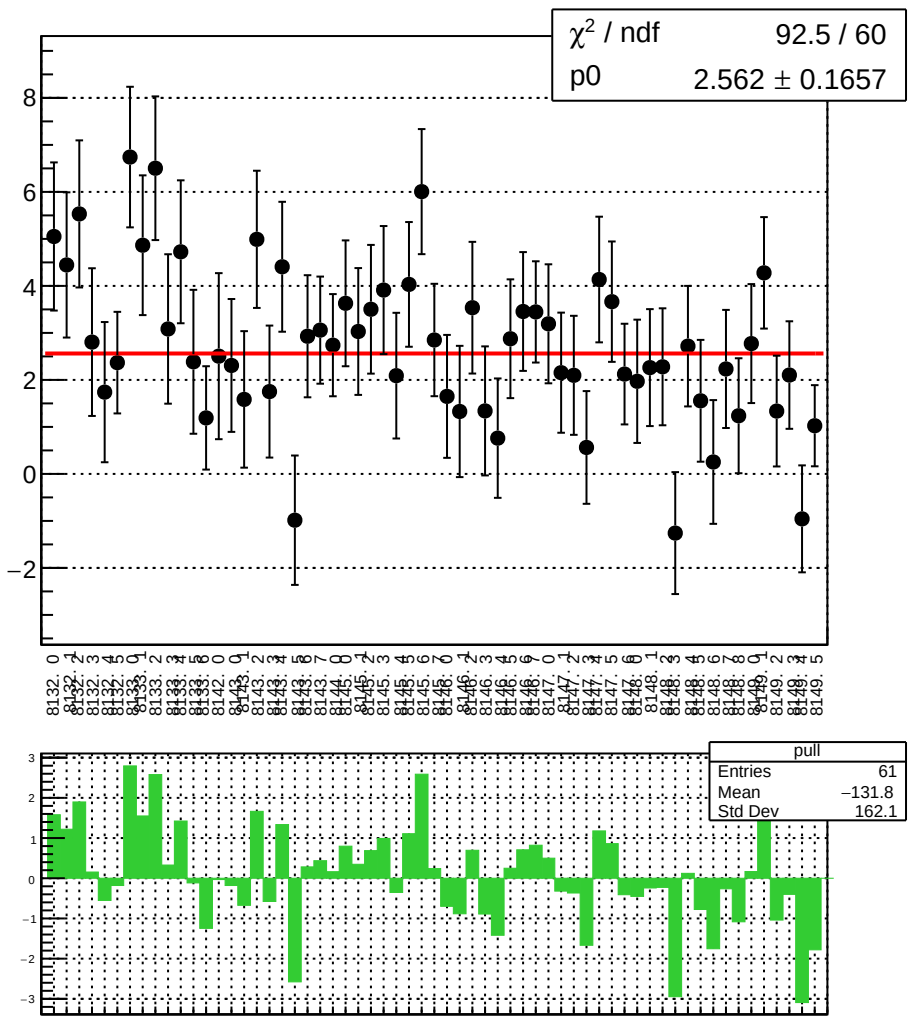

pull1D
Entries 61
Mean −0.01998
Std Dev 0.7899

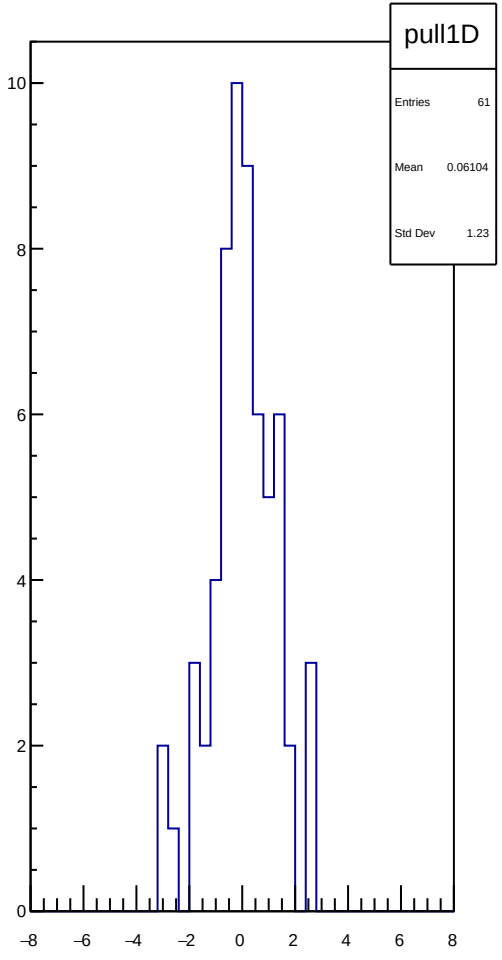

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.93 / 60
p0 −75.57 ± 2.143
pull
Entries 61
Mean −196.5
Std Dev 219.5

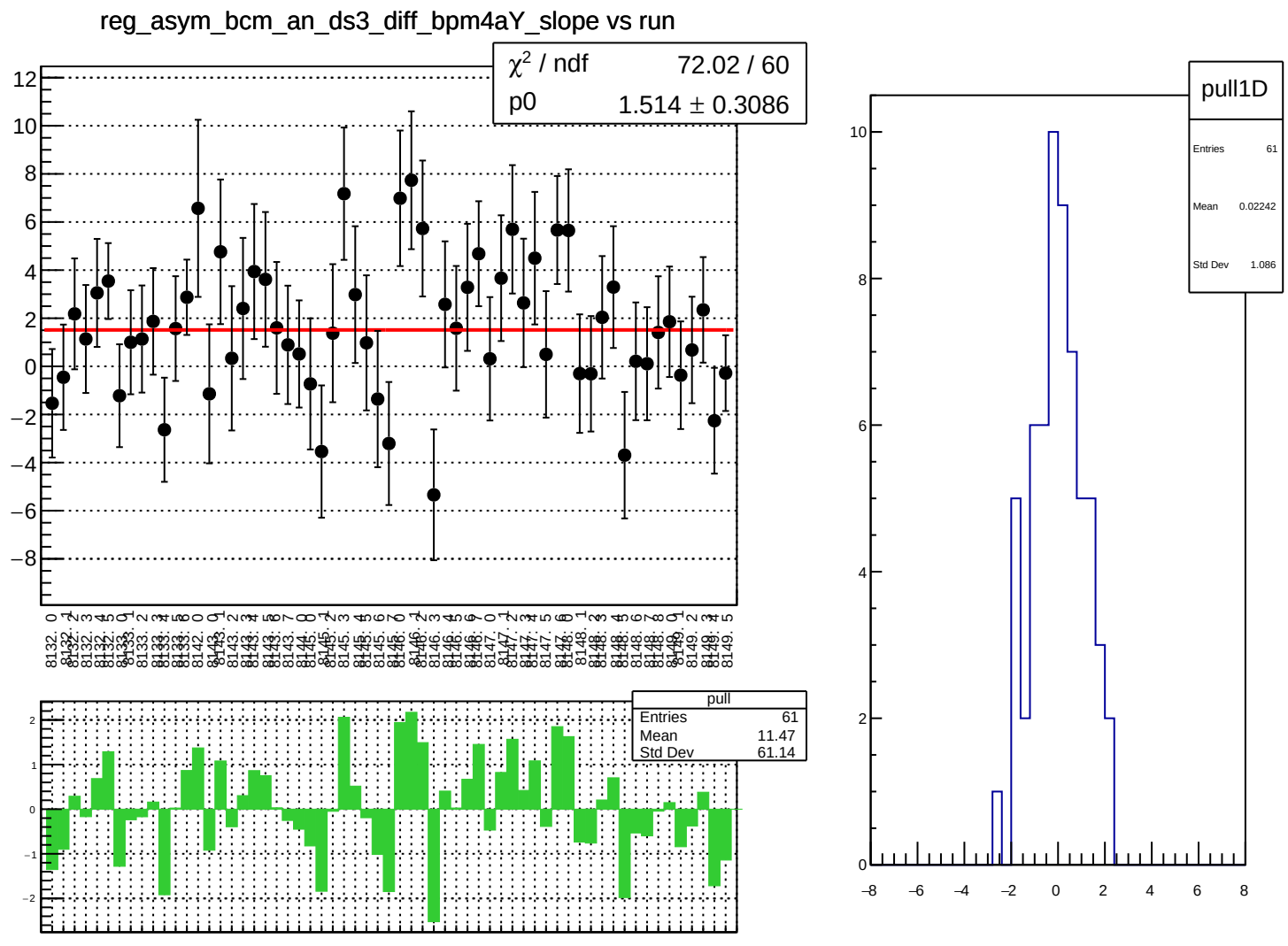

pull1D
Entries 61
Mean 0.03748
Std Dev 0.9987

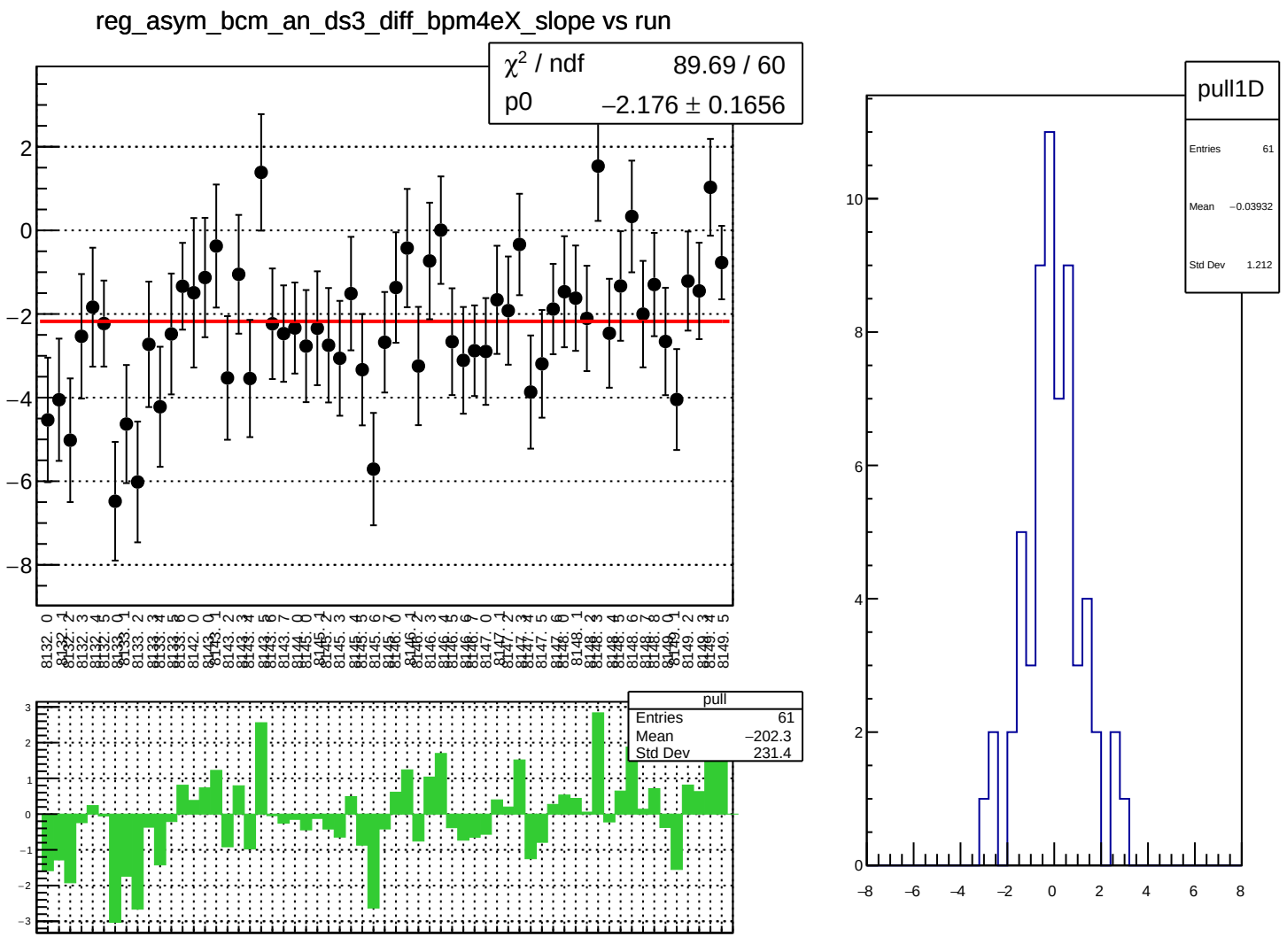

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.35 / 60
p0 7.911 ± 4.287
100
50
0
−50
−100
pull
Entries 61
Mean 186.8
Std Dev 160.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 61
Mean 0.0157
Std Dev 0.803
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

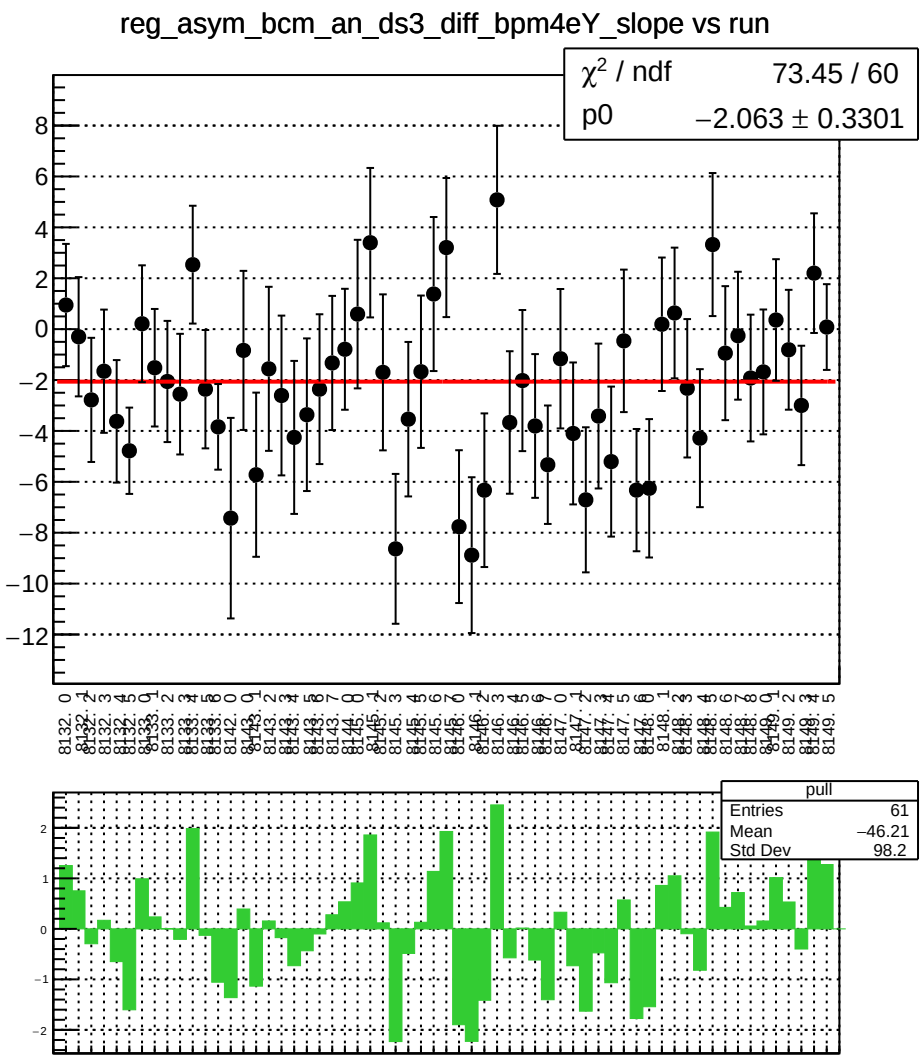

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 613.5 / 60
p0 28.68 ± 0.1766
pull
Entries 61
Mean 127.3
Std Dev 100.8
pull1D
Entries 61
Mean 0.4032
Std Dev 3.146

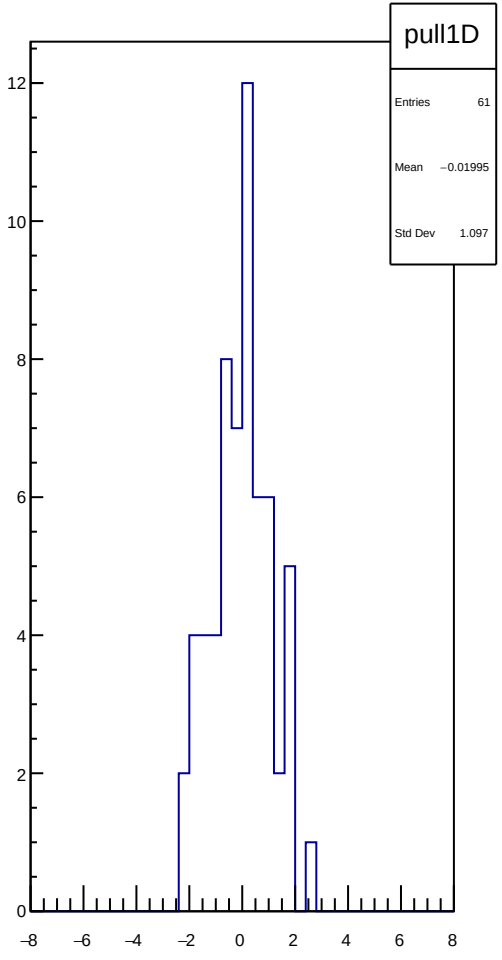

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 92.5 / 60
p0 2.562 ± 0.1657
pull
Entries 61
Mean −131.8
Std Dev 162.1

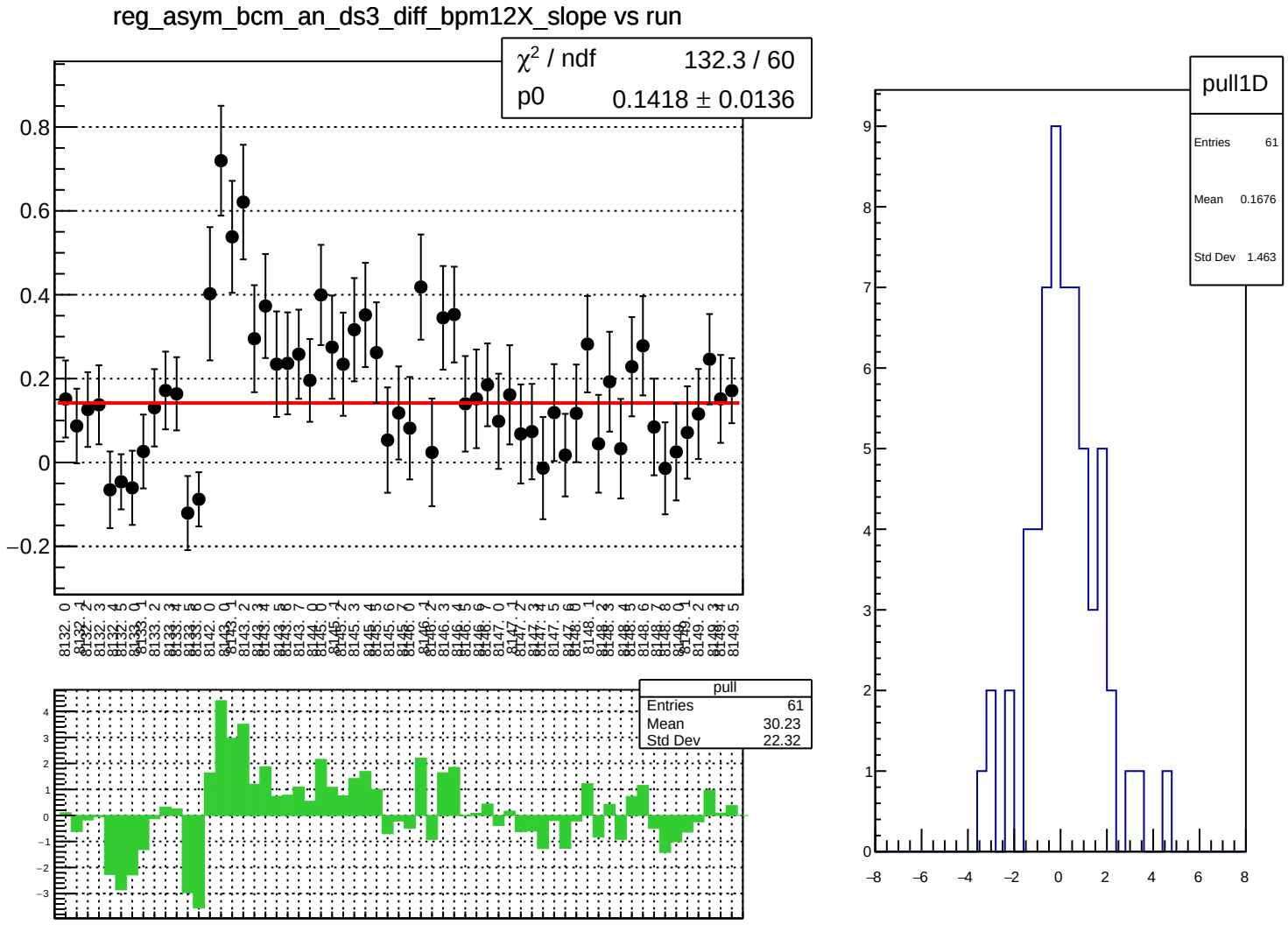

pull1D
Entries 61
Mean 0.06104
Std Dev 1.23

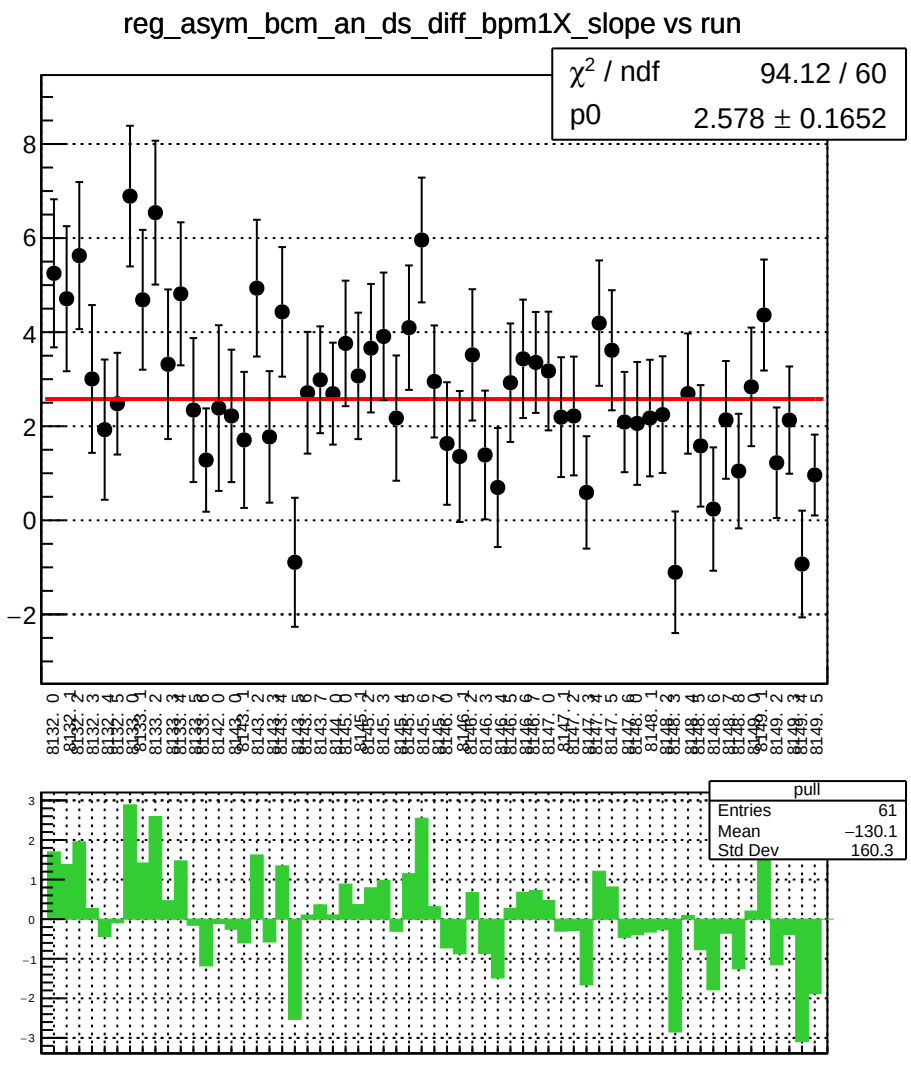

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 72.02 / 60
p0 1.514 ± 0.3086
pull
Entries 61
Mean 11.47
Std Dev 61.14
pull1D
Entries 61
Mean 0.02242
Std Dev 1.086

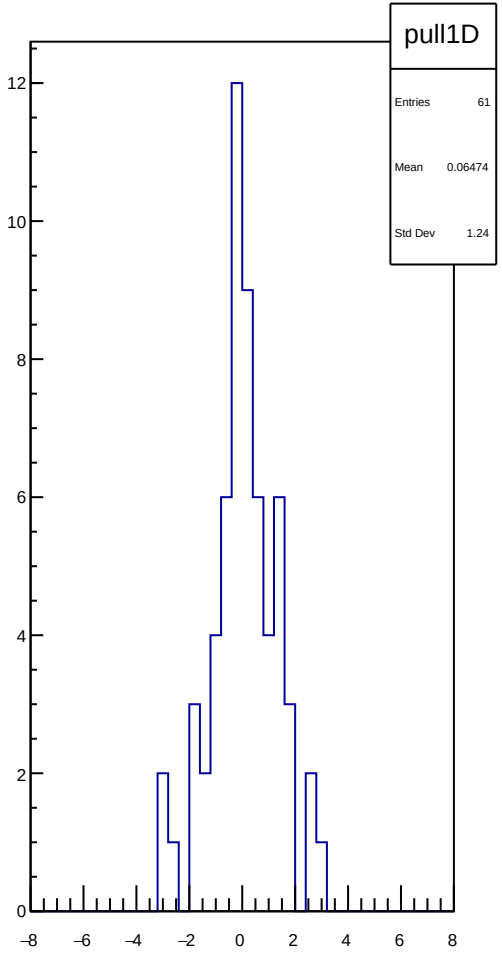

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 89.69 / 60
p0 −2.176 ± 0.1656
pull
Entries 61
Mean −202.3
Std Dev 231.4
pull1D
Entries 61
Mean −0.03932
Std Dev 1.212

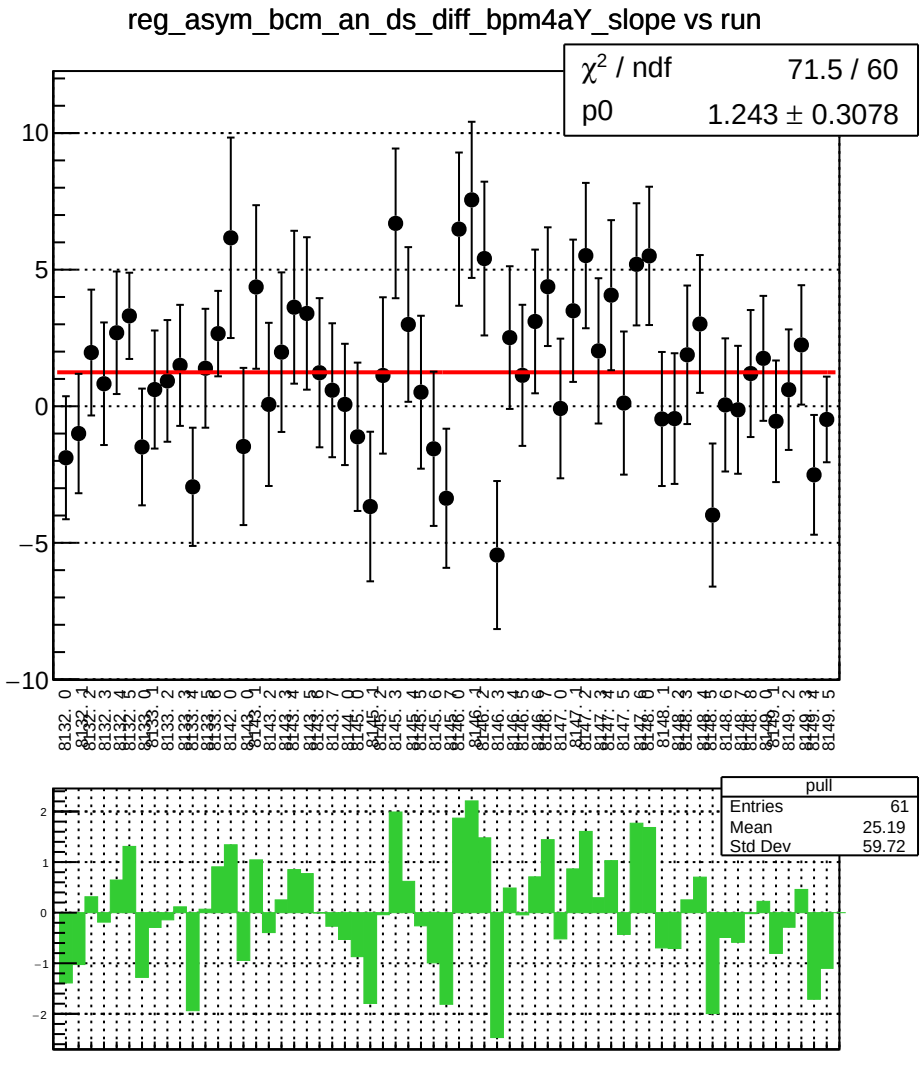

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 73.45 / 60
p0 −2.063 ± 0.3301
pull
Entries 61
Mean −46.21
Std Dev 98.2

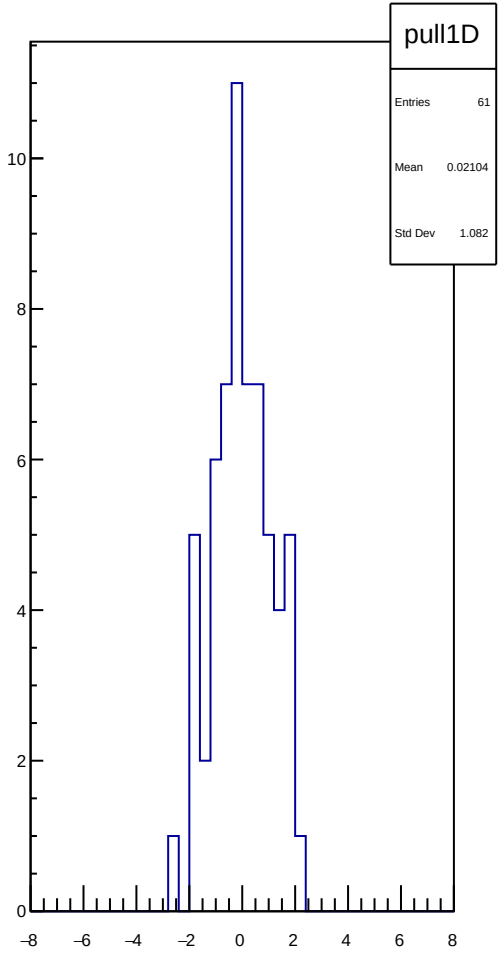

pull1D
Entries 61
Mean −0.01995
Std Dev 1.097

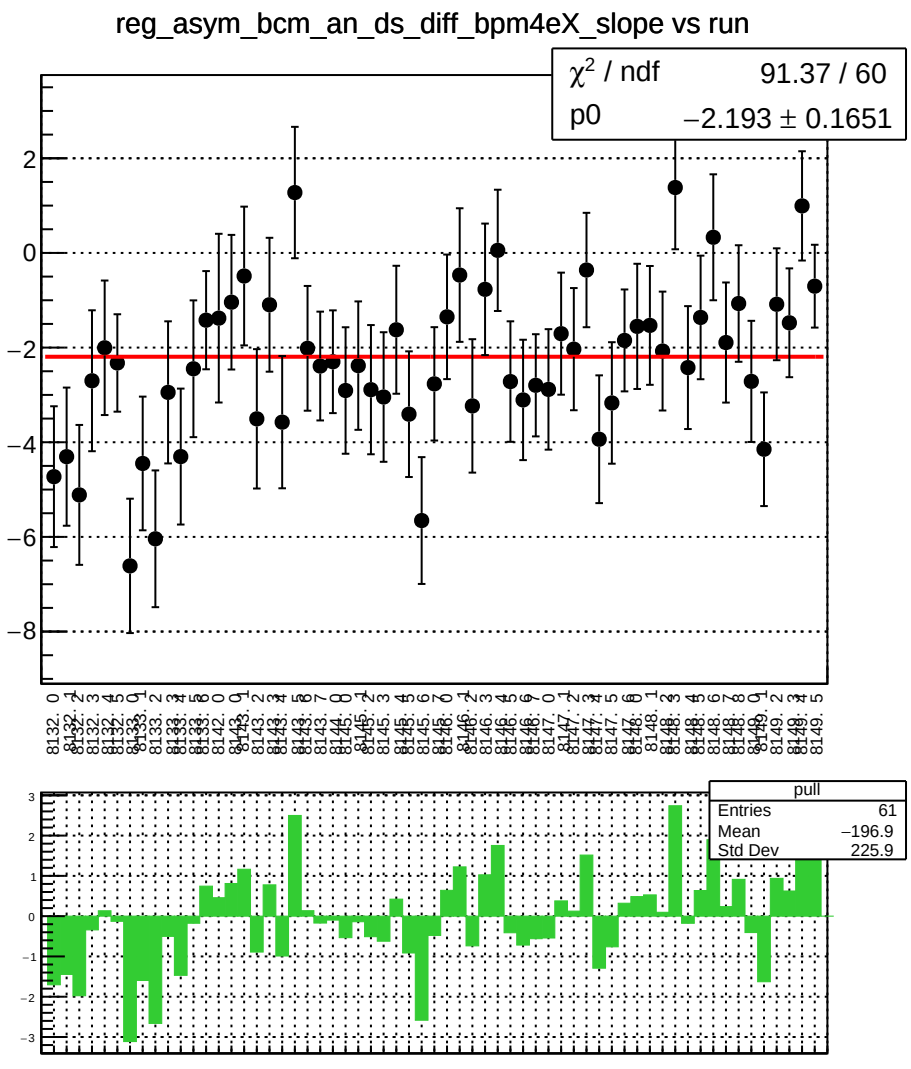

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 132.3 / 60
p0 0.1418 ± 0.0136
pull
Entries 61
Mean 30.23
Std Dev 22.32
pull1D
Entries 61
Mean 0.1676
Std Dev 1.463

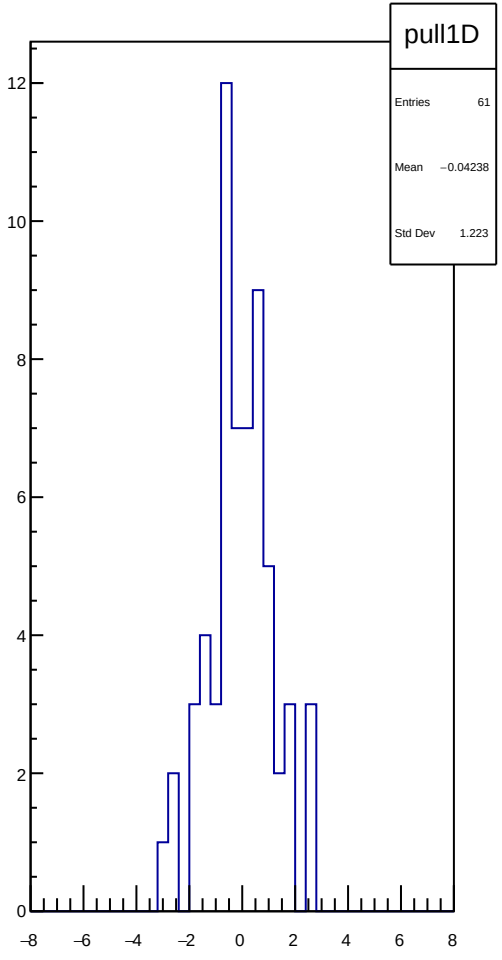

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 94.12 / 60
p0 2.578 ± 0.1652
pull
Entries 61
Mean −130.1
Std Dev 160.3

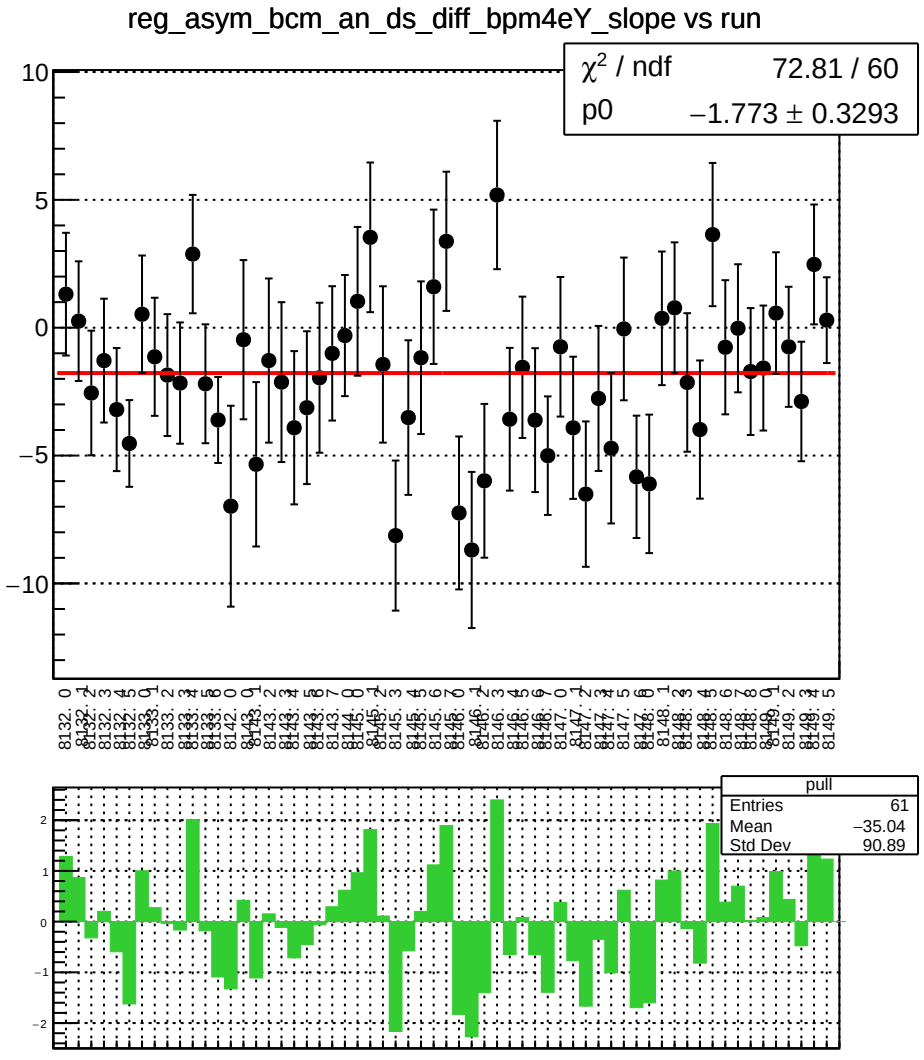

pull1D
Entries 61
Mean 0.06474
Std Dev 1.24

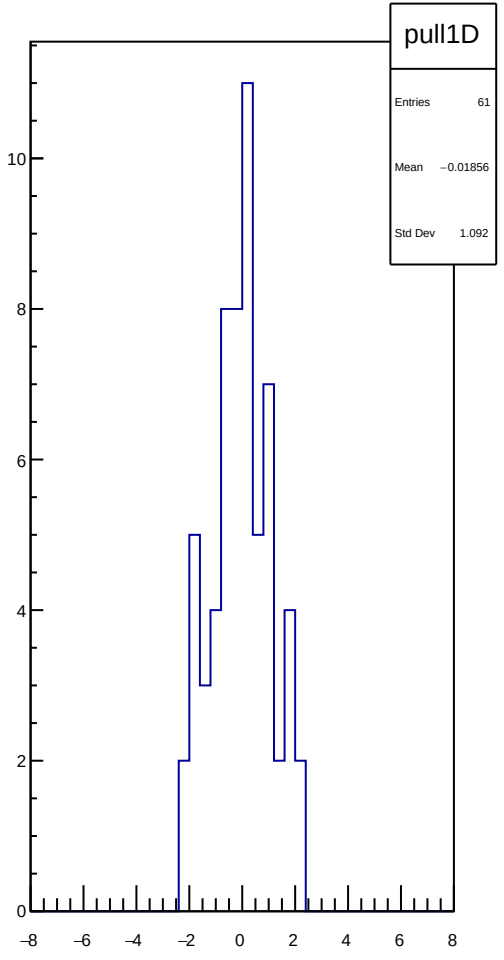

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 71.5 / 60
p0 1.243 ± 0.3078
pull
Entries 61
Mean 25.19
Std Dev 59.72

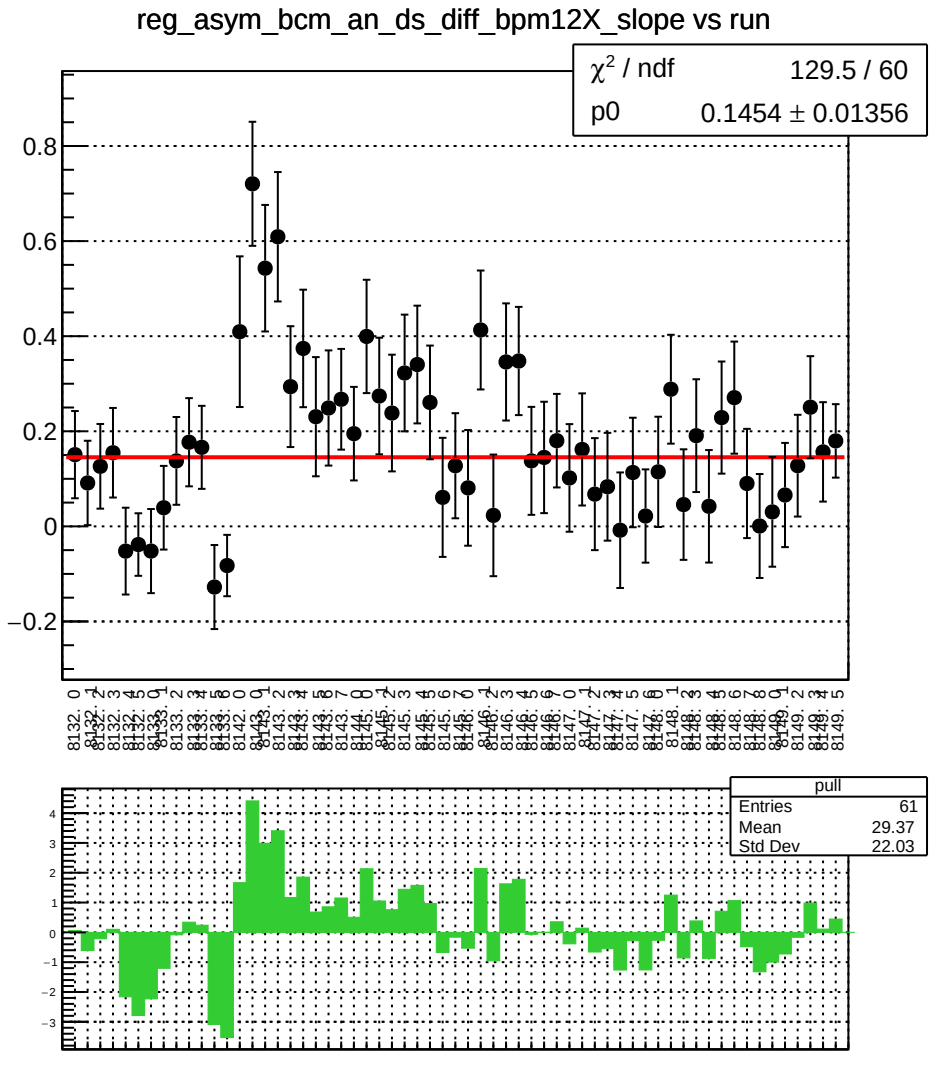

pull1D
Entries 61
Mean 0.02104
Std Dev 1.082

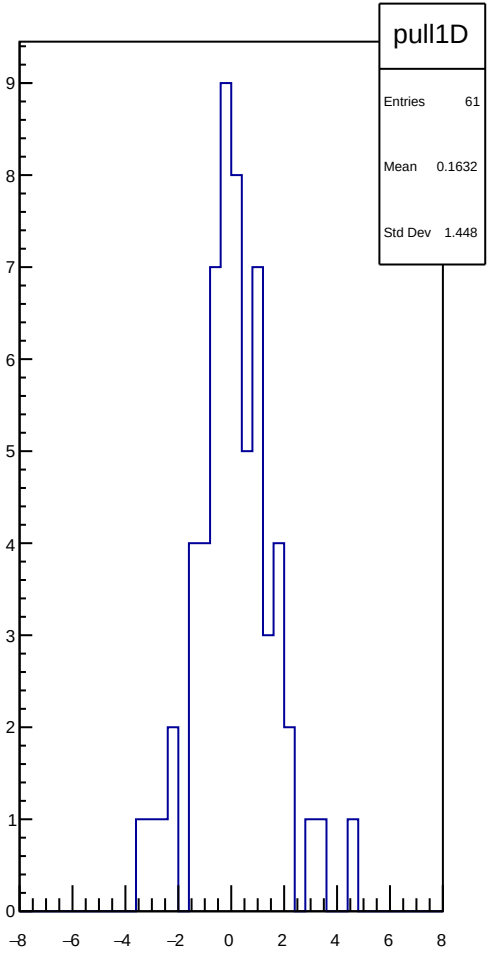

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 91.37 / 60
p0 −2.193 ± 0.1651
pull
Entries 61
Mean −196.9
Std Dev 225.9

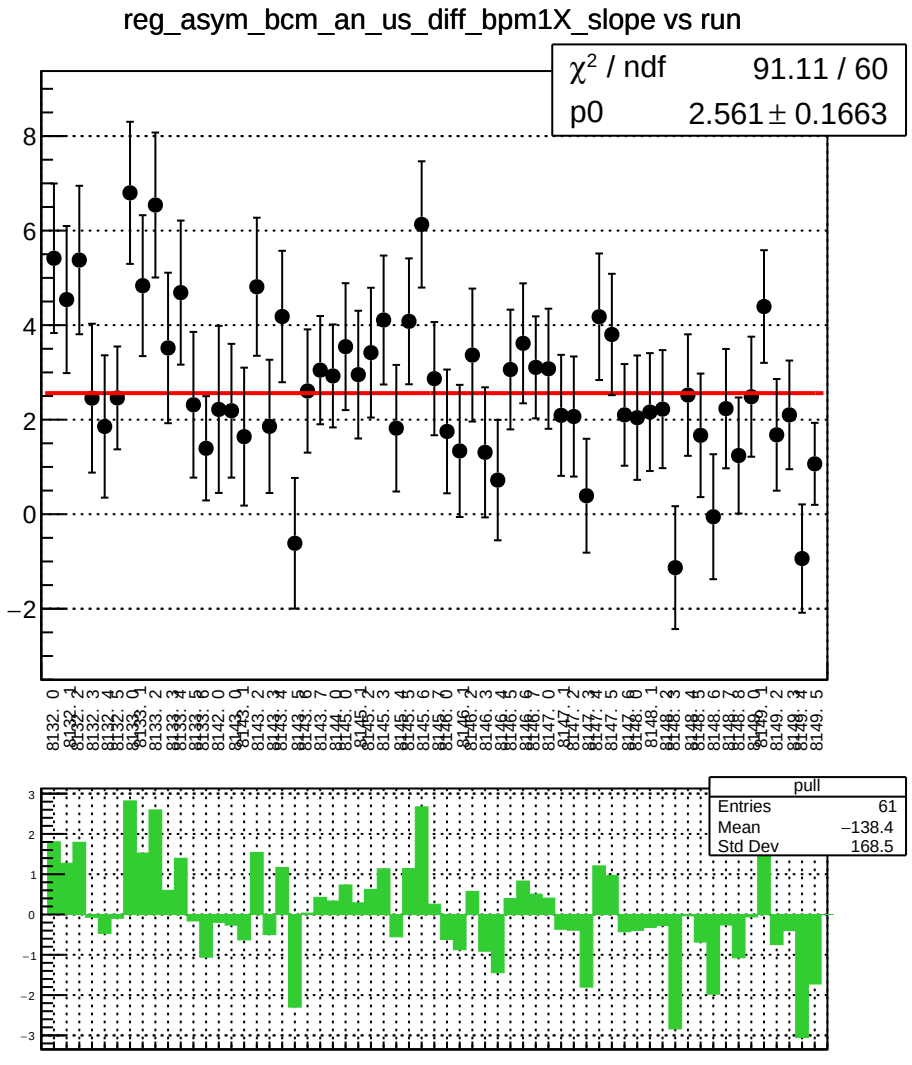

pull1D
Entries 61
Mean −0.04238
Std Dev 1.223

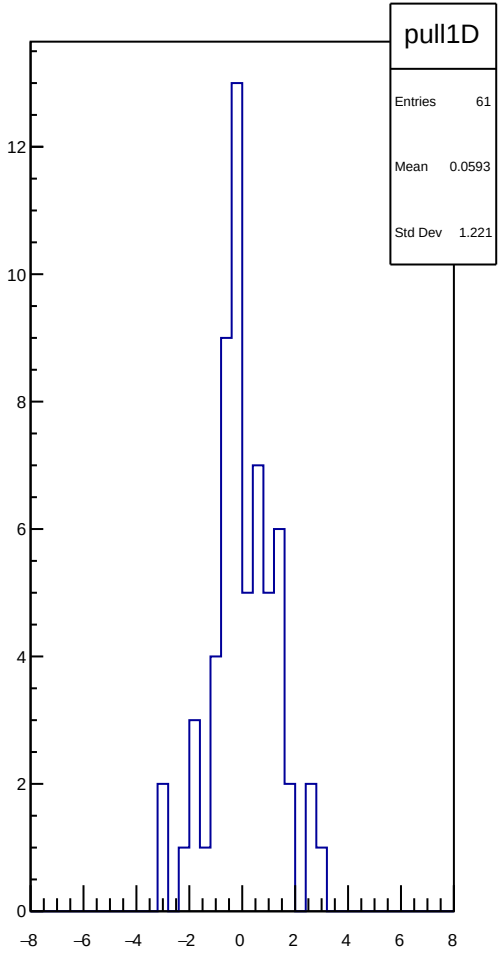

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 72.81 / 60
p0 −1.773 ± 0.3293
pull
Entries 61
Mean −35.04
Std Dev 90.89

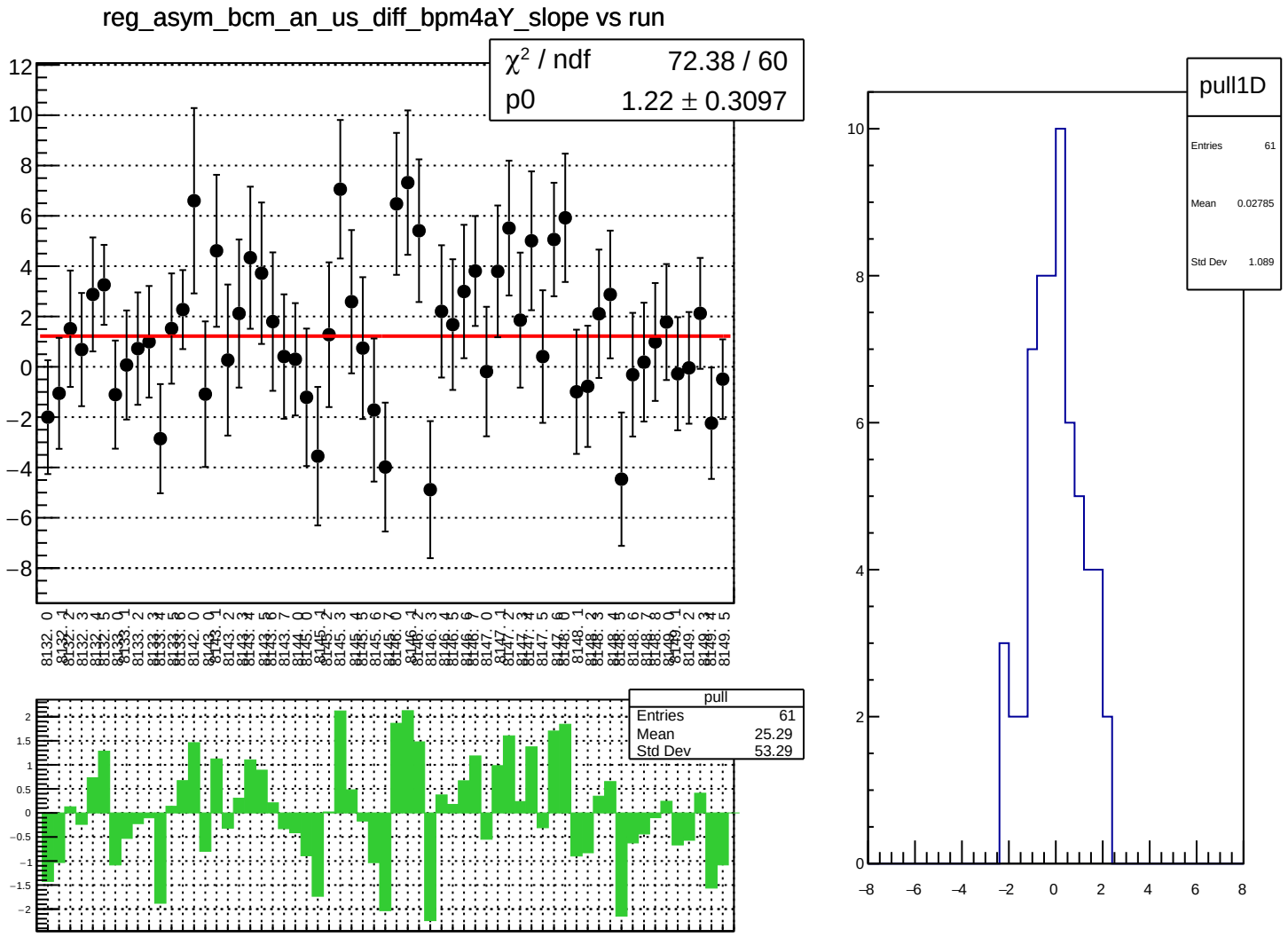

pull1D
Entries 61
Mean −0.01856
Std Dev 1.092

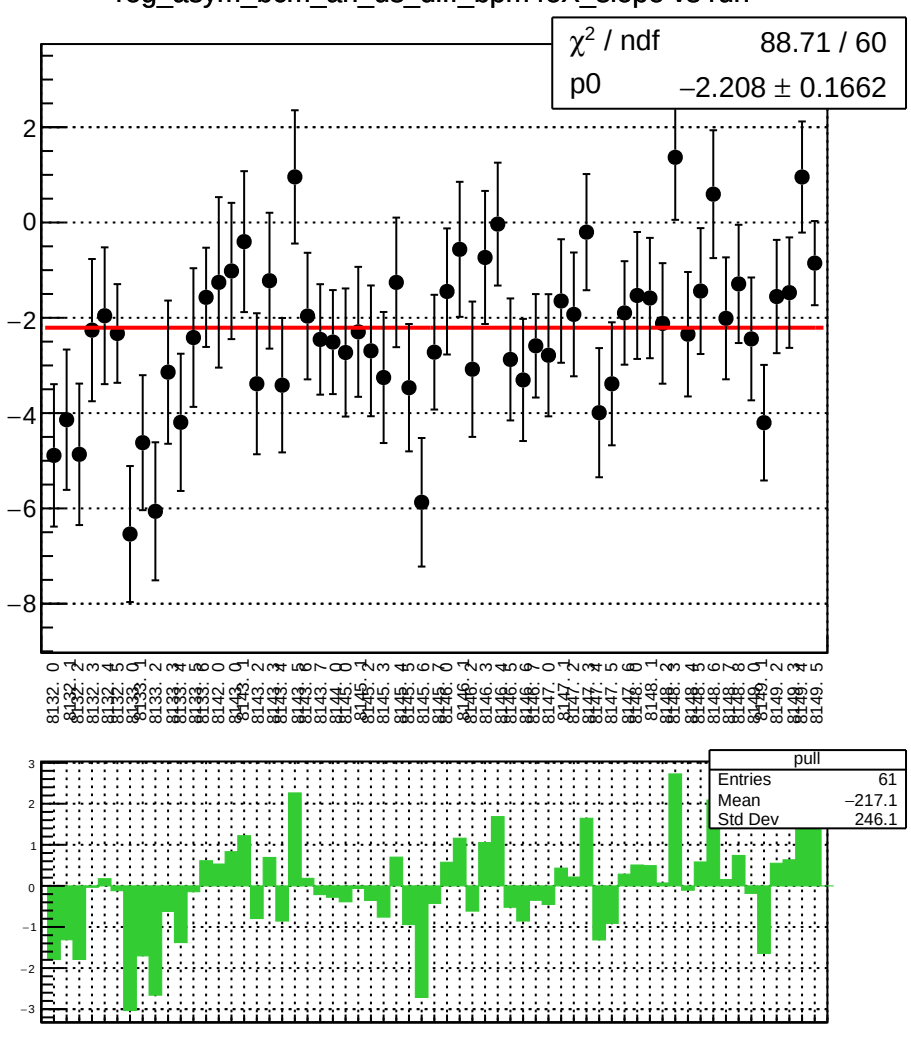

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 129.5 / 60
p0 0.1454 ± 0.01356
pull
Entries 61
Mean 29.37
Std Dev 22.03

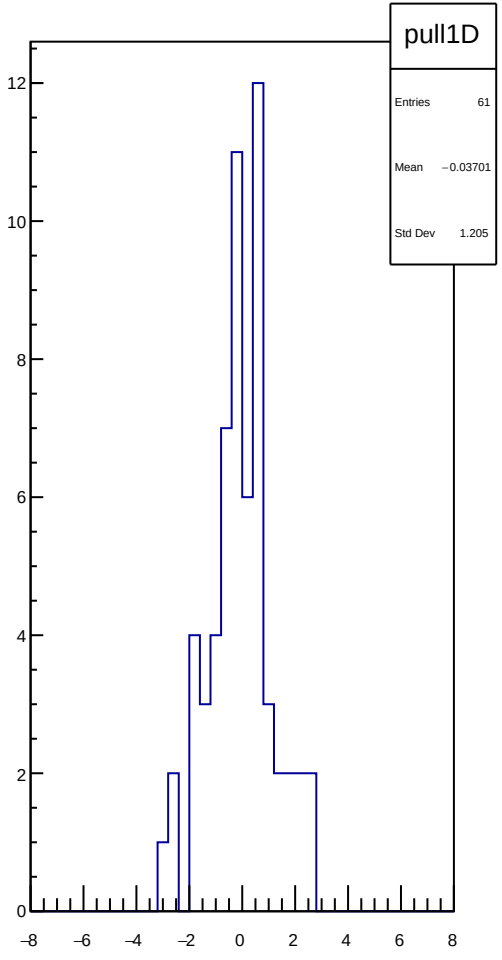

pull1D
Entries 61
Mean 0.1632
Std Dev 1.448

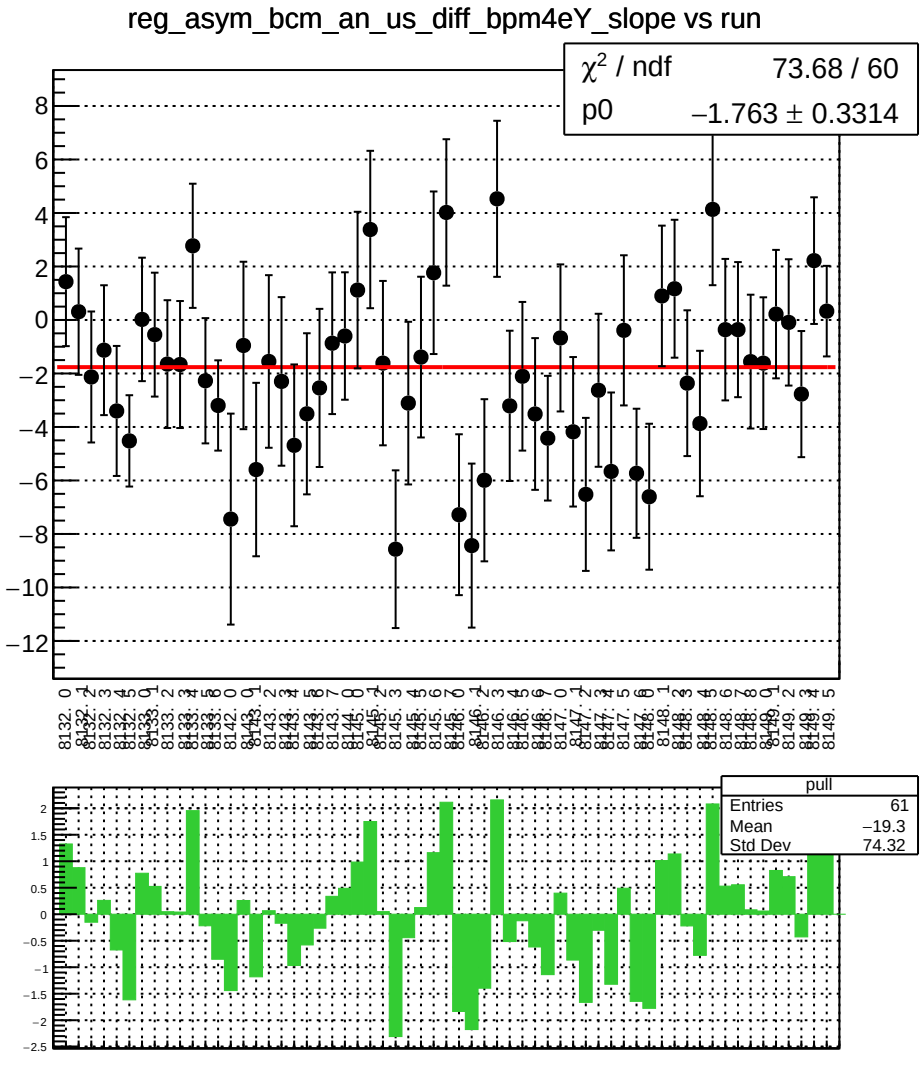

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 91.11 / 60
p0 2.561 ± 0.1663
pull
Entries 61
Mean −138.4
Std Dev 168.5

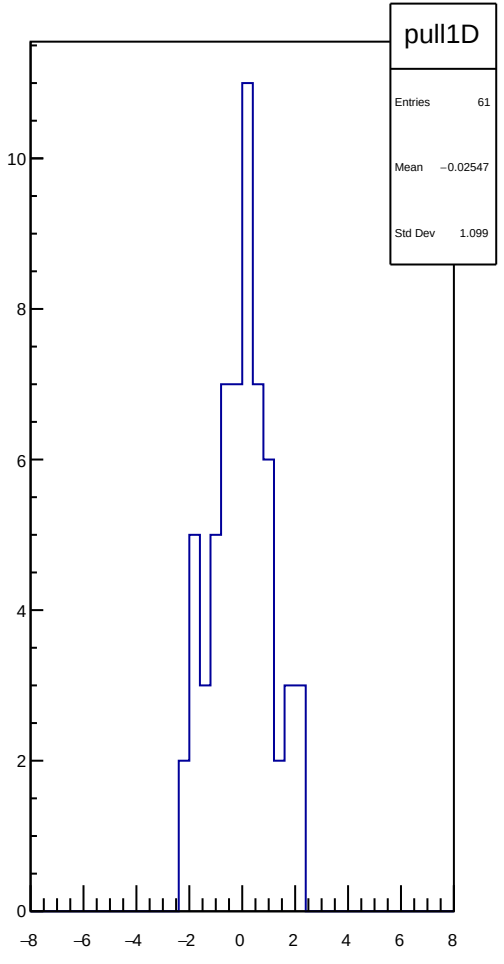

pull1D
Entries 61
Mean 0.0593
Std Dev 1.221

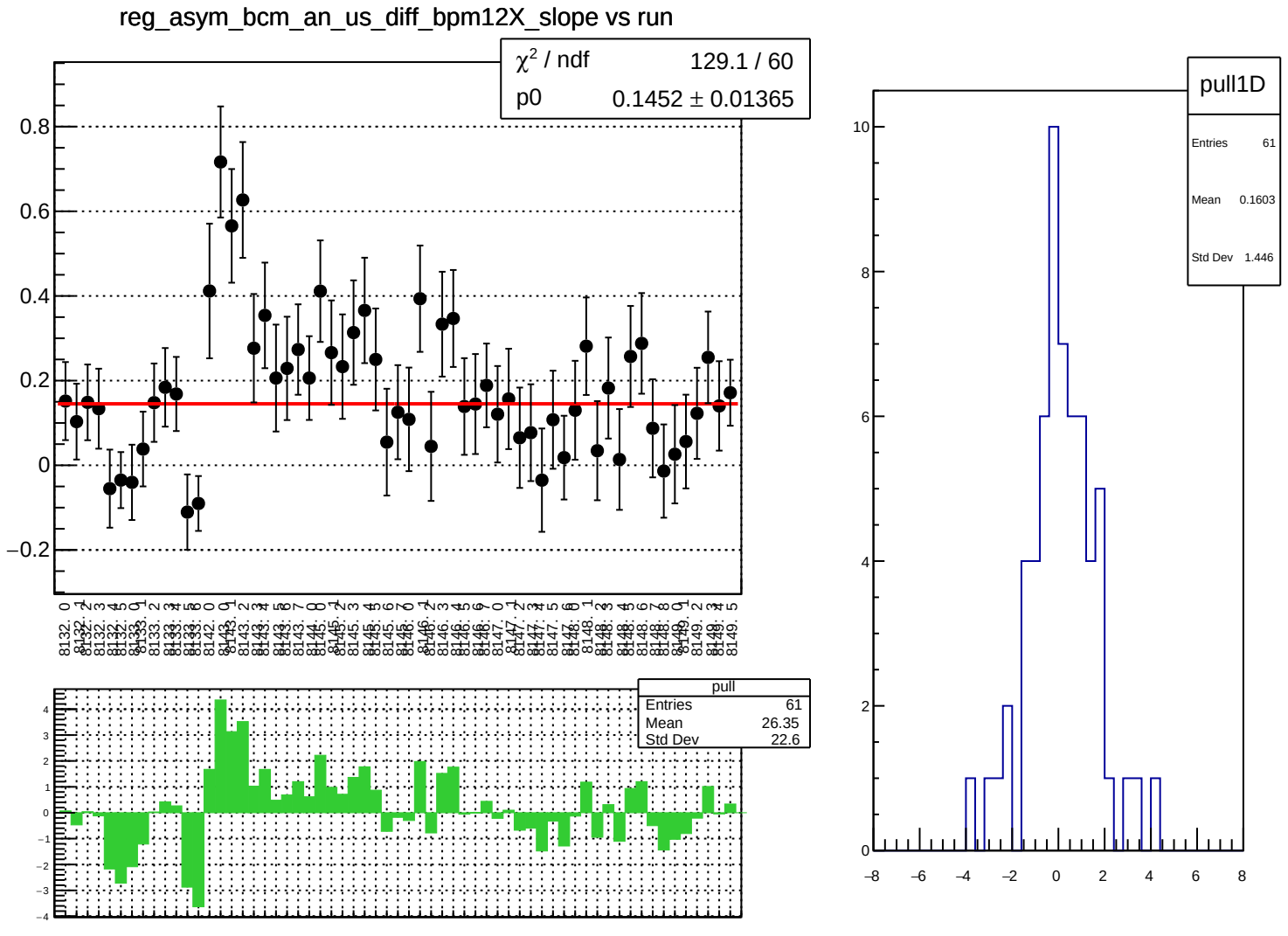

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 72.38 / 60
p0 1.22 ± 0.3097
pull
Entries 61
Mean 25.29
Std Dev 53.29
pull1D
Entries 61
Mean 0.02785
Std Dev 1.089

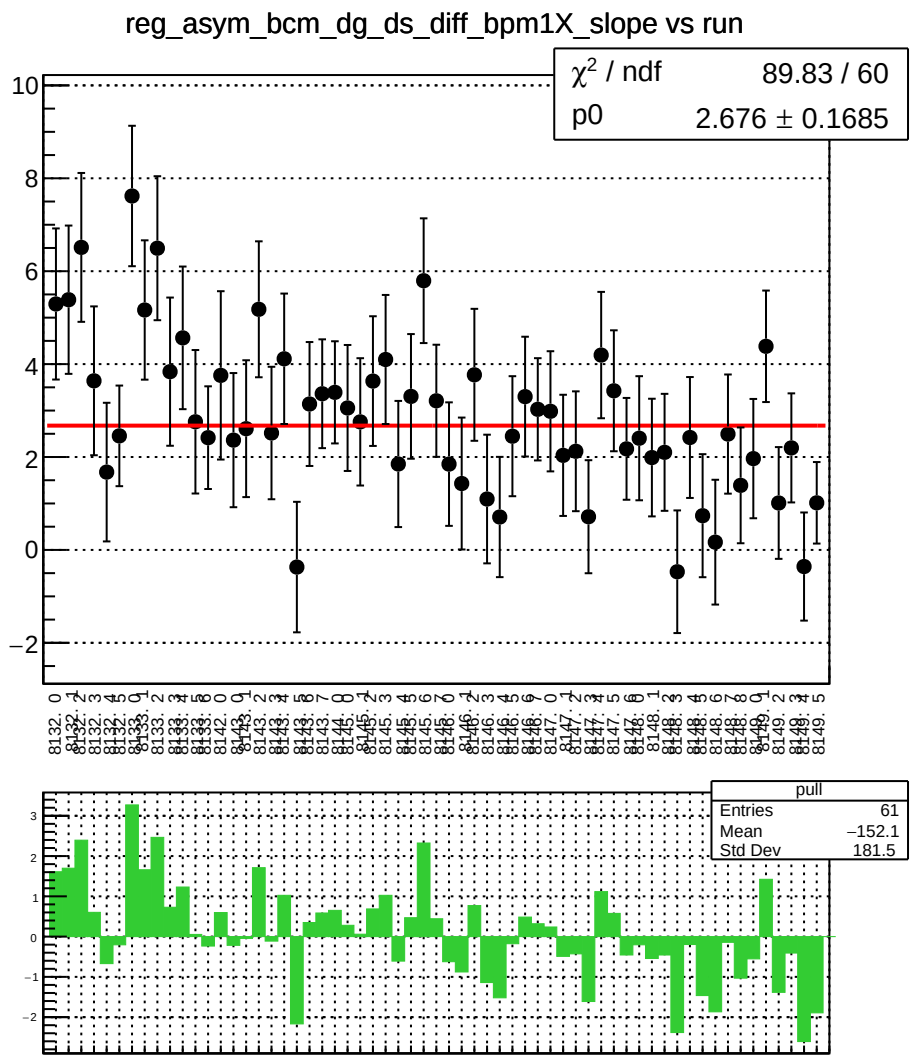

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 88.71 / 60
p0 −2.208 ± 0.1662
pull
Entries 61
Mean −217.1
Std Dev 246.1

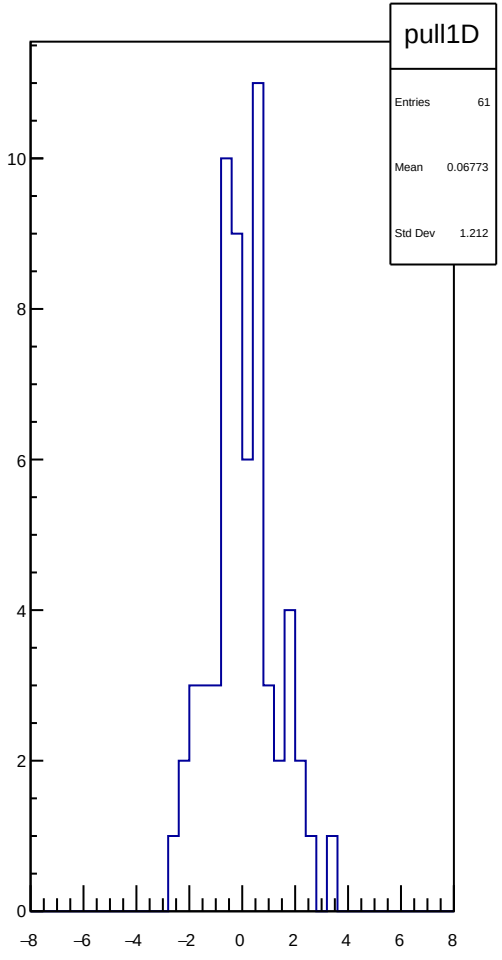

pull1D
Entries 61
Mean −0.03701
Std Dev 1.205

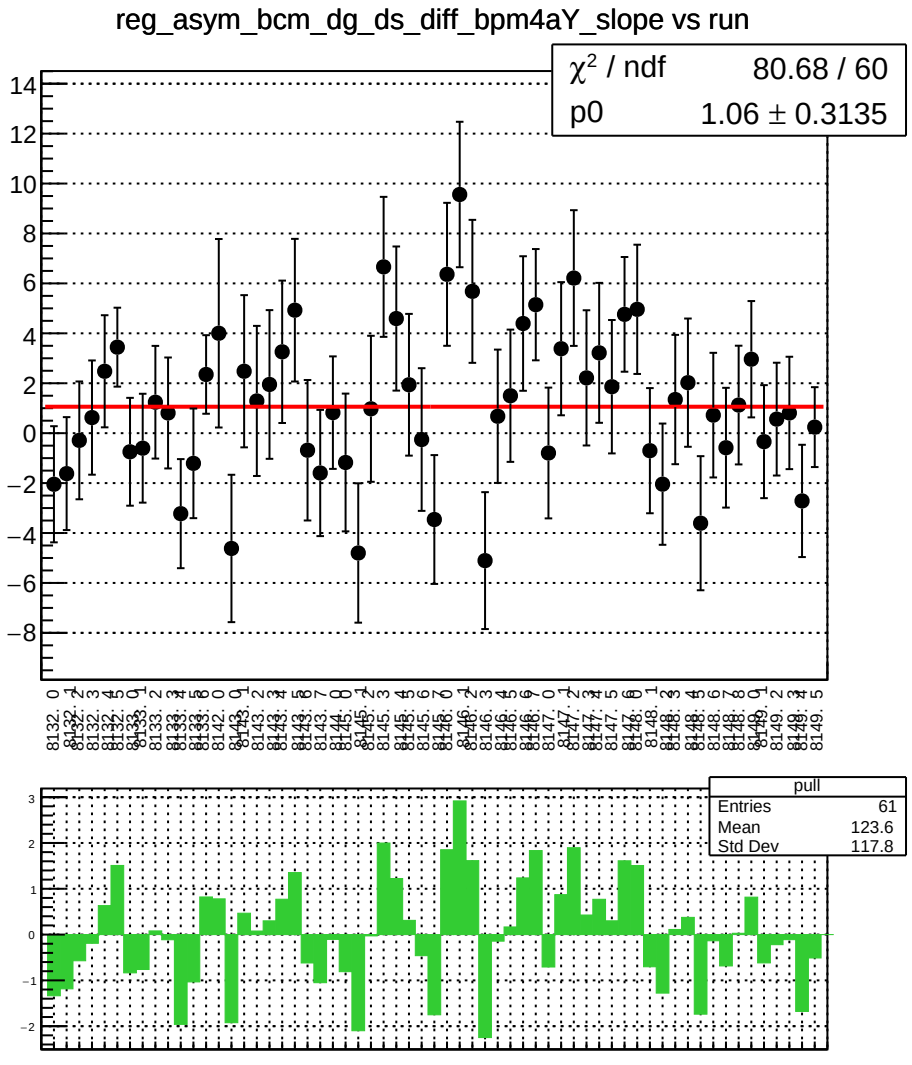

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 73.68 / 60
p0 −1.763 ± 0.3314
pull
Entries 61
Mean −19.3
Std Dev 74.32

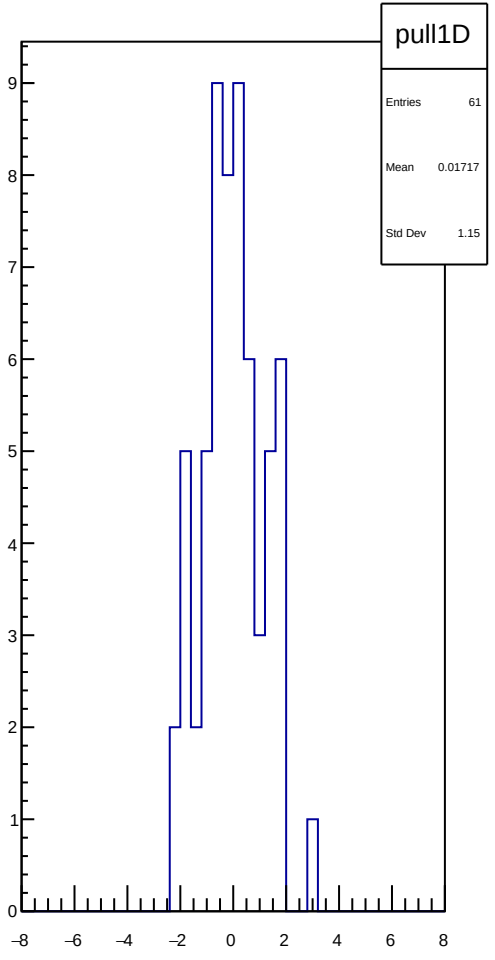

pull1D
Entries 61
Mean −0.02547
Std Dev 1.099

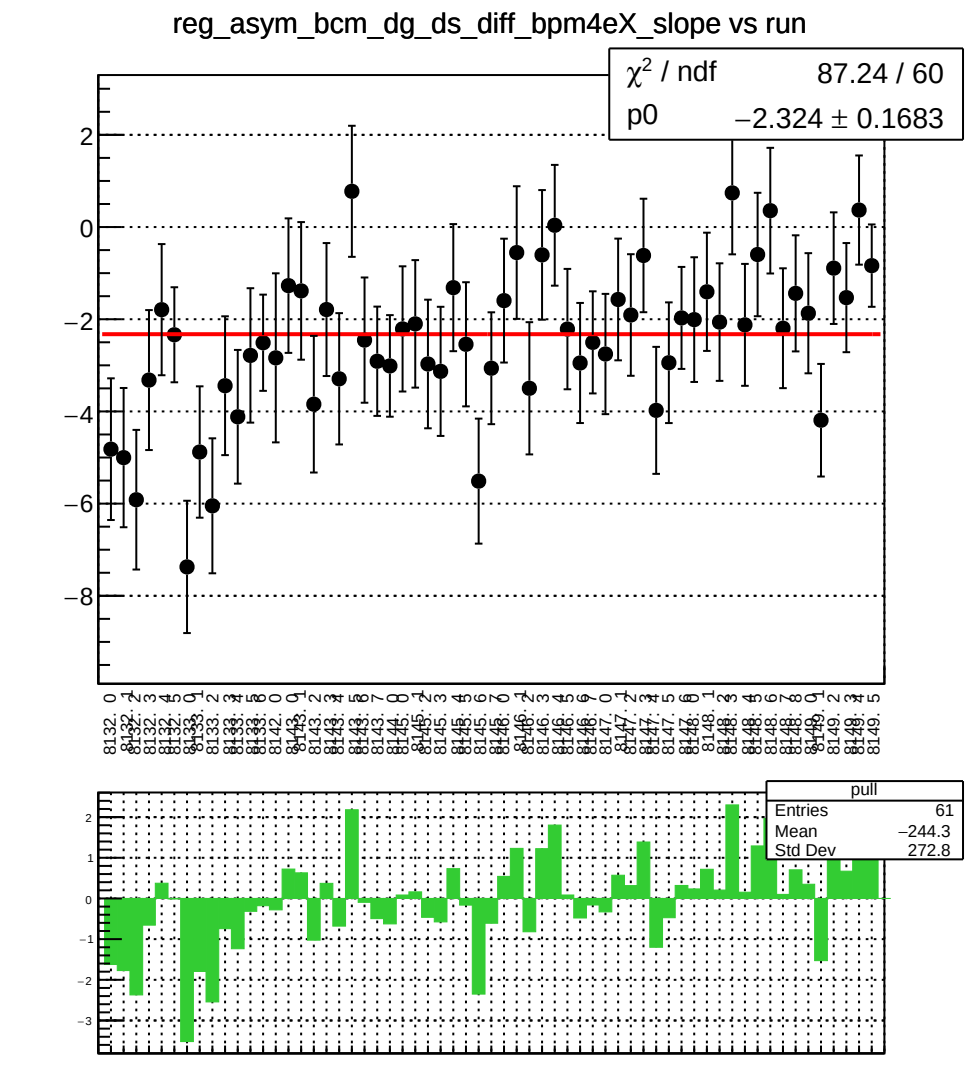

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 129.1 / 60
p0 0.1452 ± 0.01365
pull
Entries 61
Mean 26.35
Std Dev 22.6
pull1D
Entries 61
Mean 0.1603
Std Dev 1.446

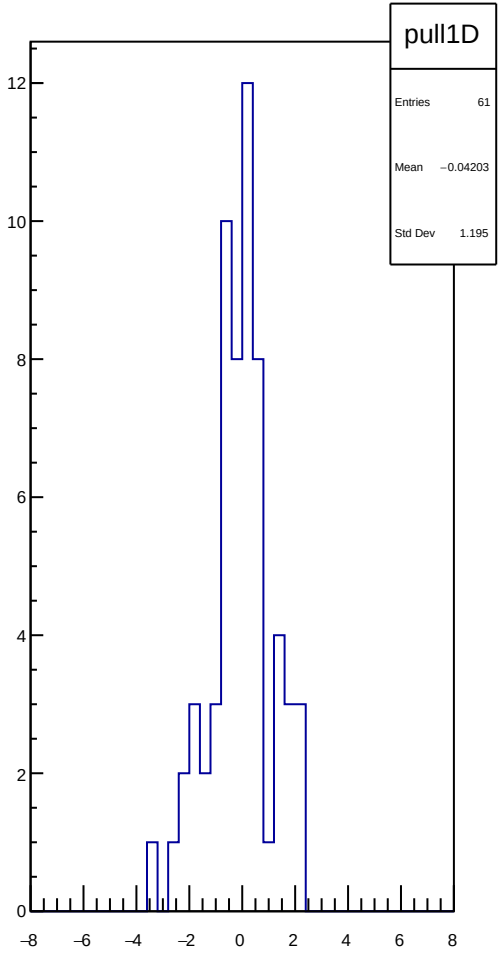

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 89.83 / 60
p0 2.676 ± 0.1685
pull
Entries 61
Mean −152.1
Std Dev 181.5

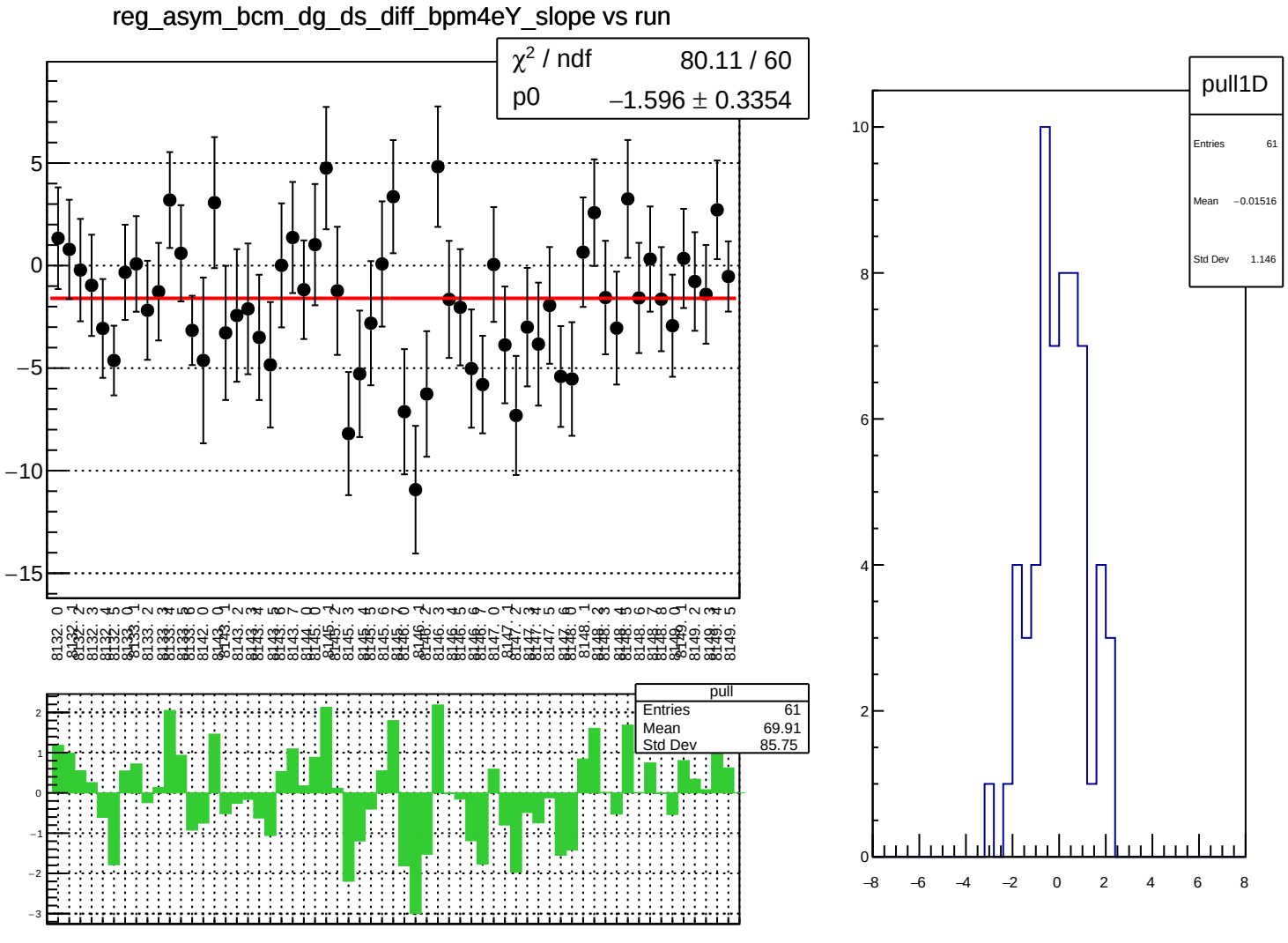

pull1D
Entries 61
Mean 0.06773
Std Dev 1.212

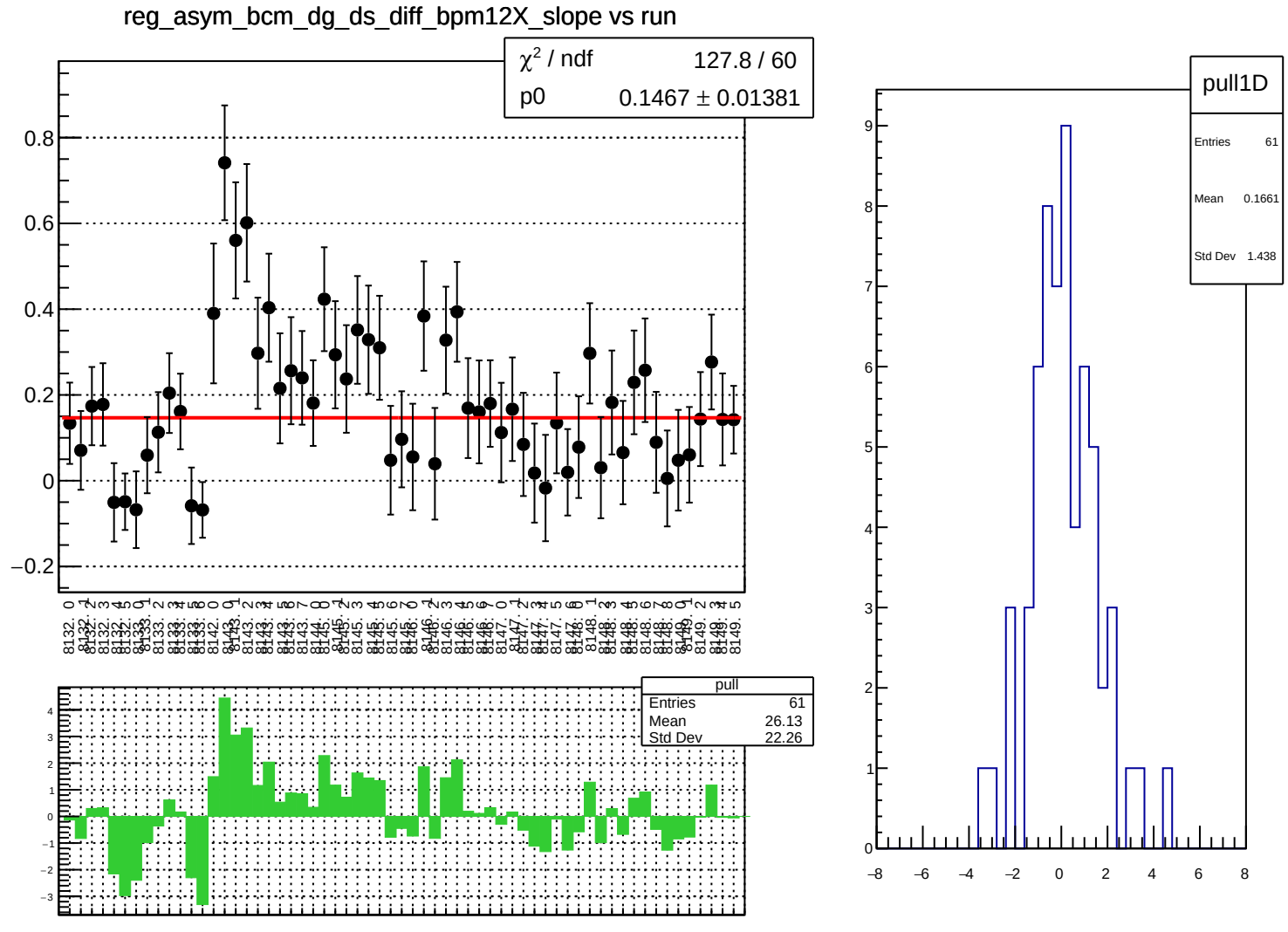

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 80.68 / 60
p0 1.06 ± 0.3135
pull
Entries 61
Mean 123.6
Std Dev 117.8

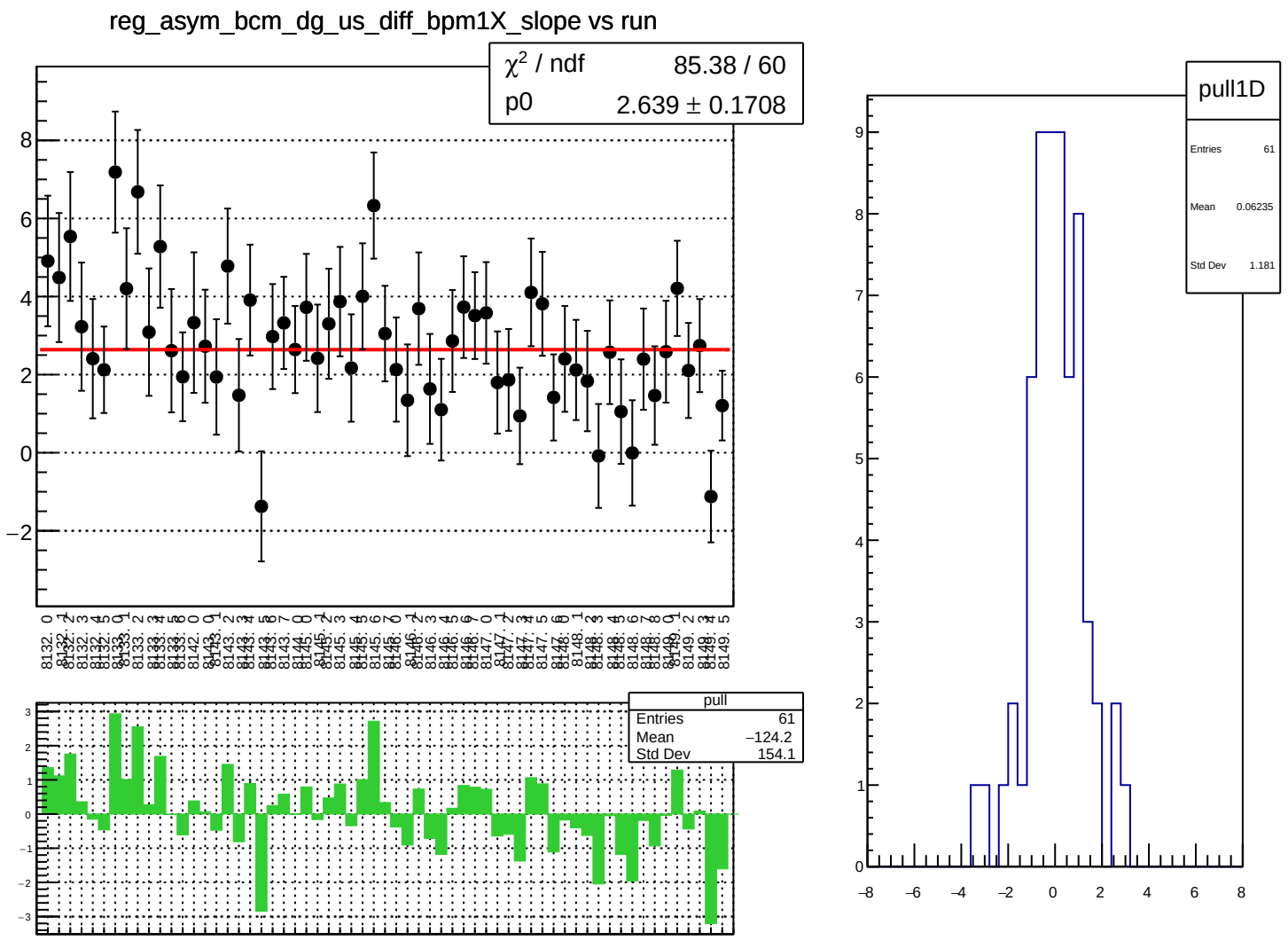

pull1D
Entries 61
Mean 0.01717
Std Dev 1.15

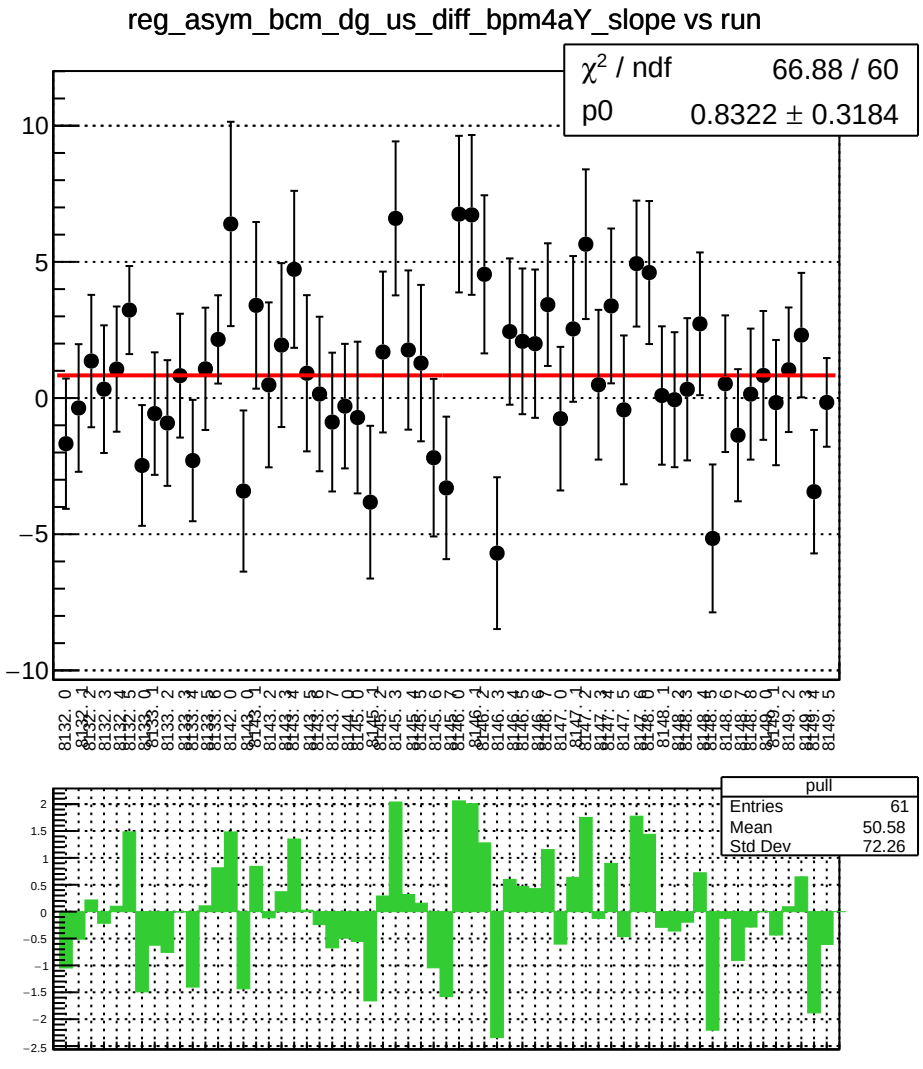

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 87.24 / 60
p0 −2.324 ± 0.1683
pull
Entries 61
Mean −244.3
Std Dev 272.8

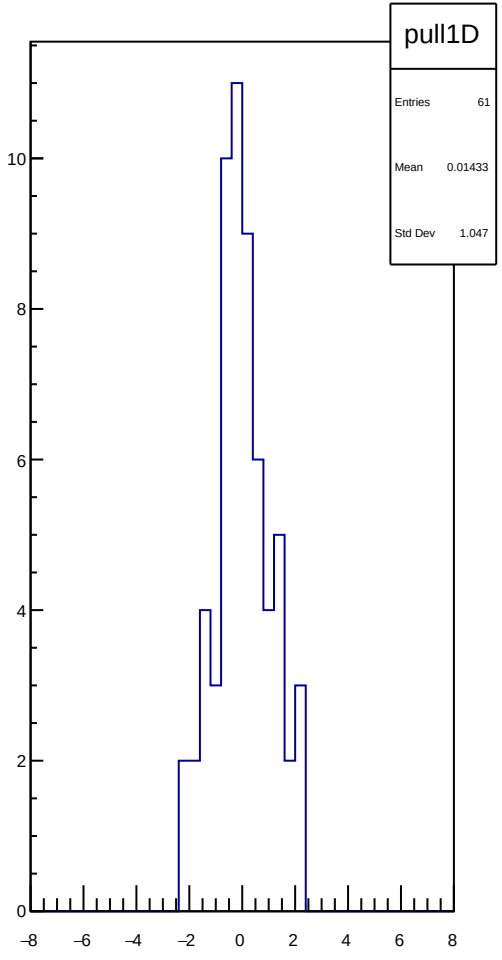

pull1D
Entries 61
Mean −0.04203
Std Dev 1.195

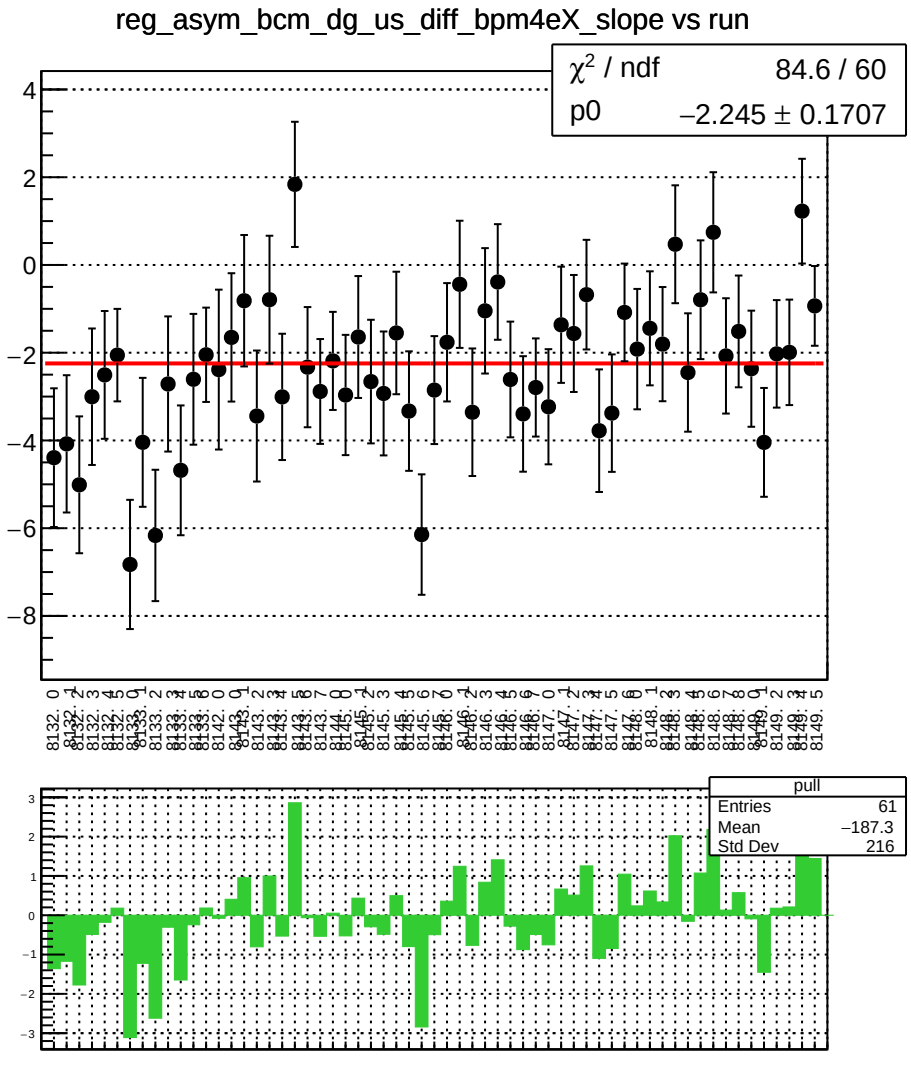

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 80.11 / 60
p0 −1.596 ± 0.3354
pull
Entries 61
Mean 69.91
Std Dev 85.75
pull1D
Entries 61
Mean −0.01516
Std Dev 1.146

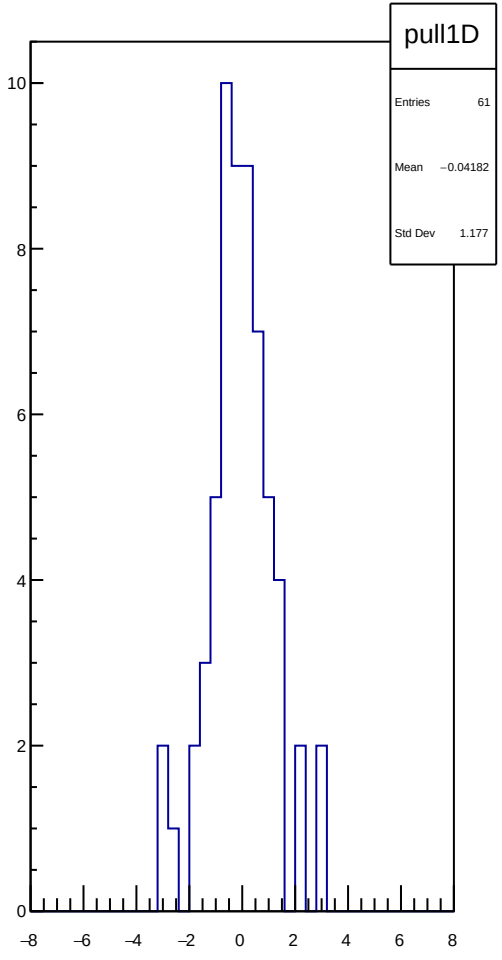

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 127.8 / 60
p0 0.1467 ± 0.01381
pull
Entries 61
Mean 26.13
Std Dev 22.26
pull1D
Entries 61
Mean 0.1661
Std Dev 1.438

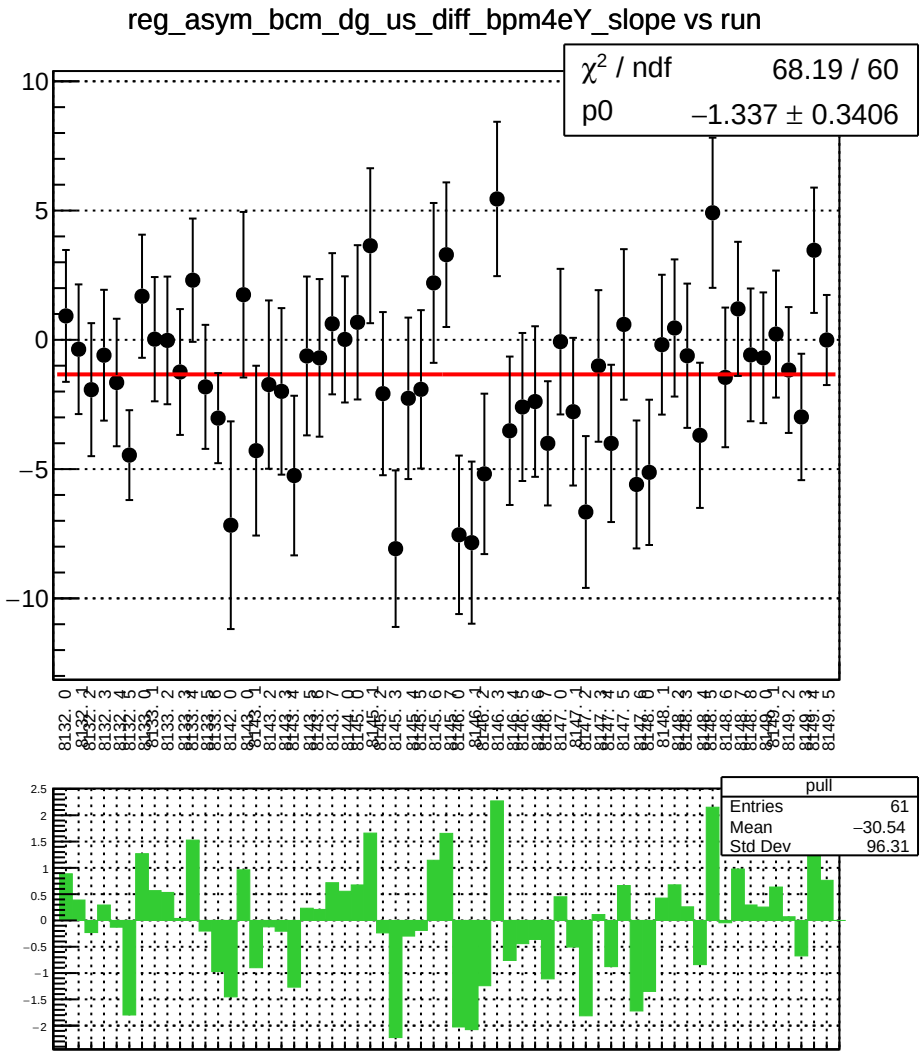

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 85.38 / 60
p0 2.639 ± 0.1708
pull
Entries 61
Mean −124.2
Std Dev 154.1
pull1D
Entries 61
Mean 0.06235
Std Dev 1.181

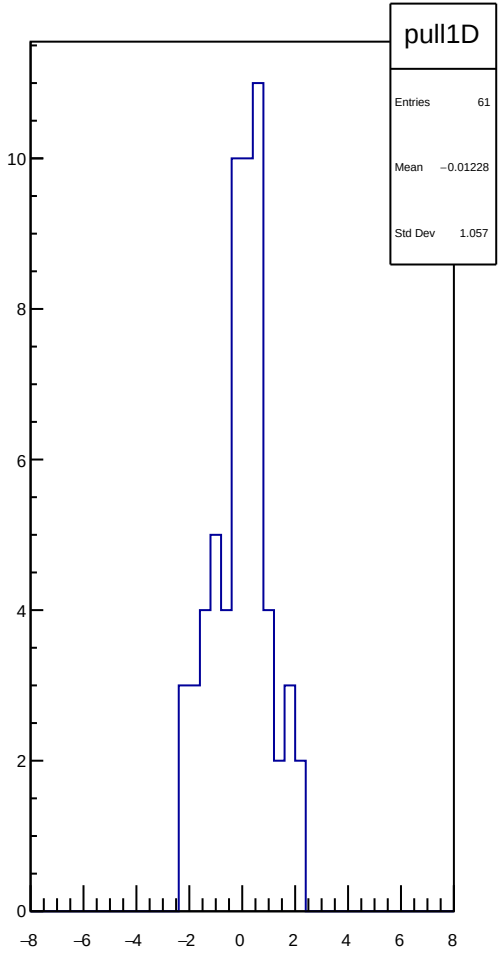

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 66.88 / 60
p0 0.8322 ± 0.3184
pull
Entries 61
Mean 50.58
Std Dev 72.26

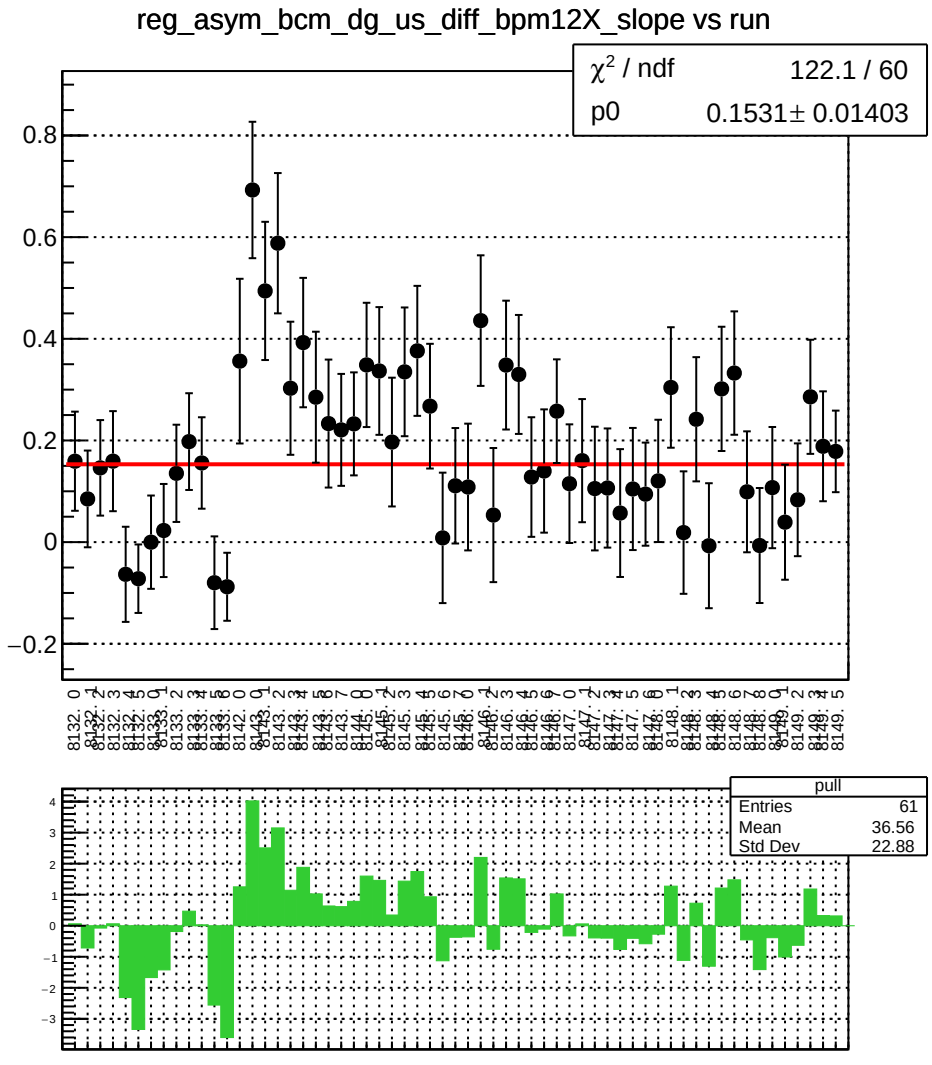

pull1D
Entries 61
Mean 0.01433
Std Dev 1.047

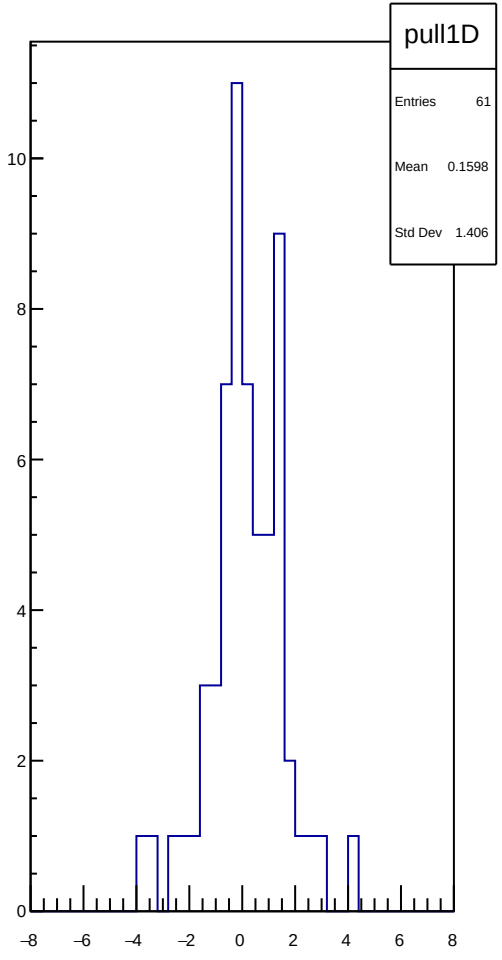

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 84.6 / 60
p0 −2.245 ± 0.1707
pull
Entries 61
Mean −187.3
Std Dev 216

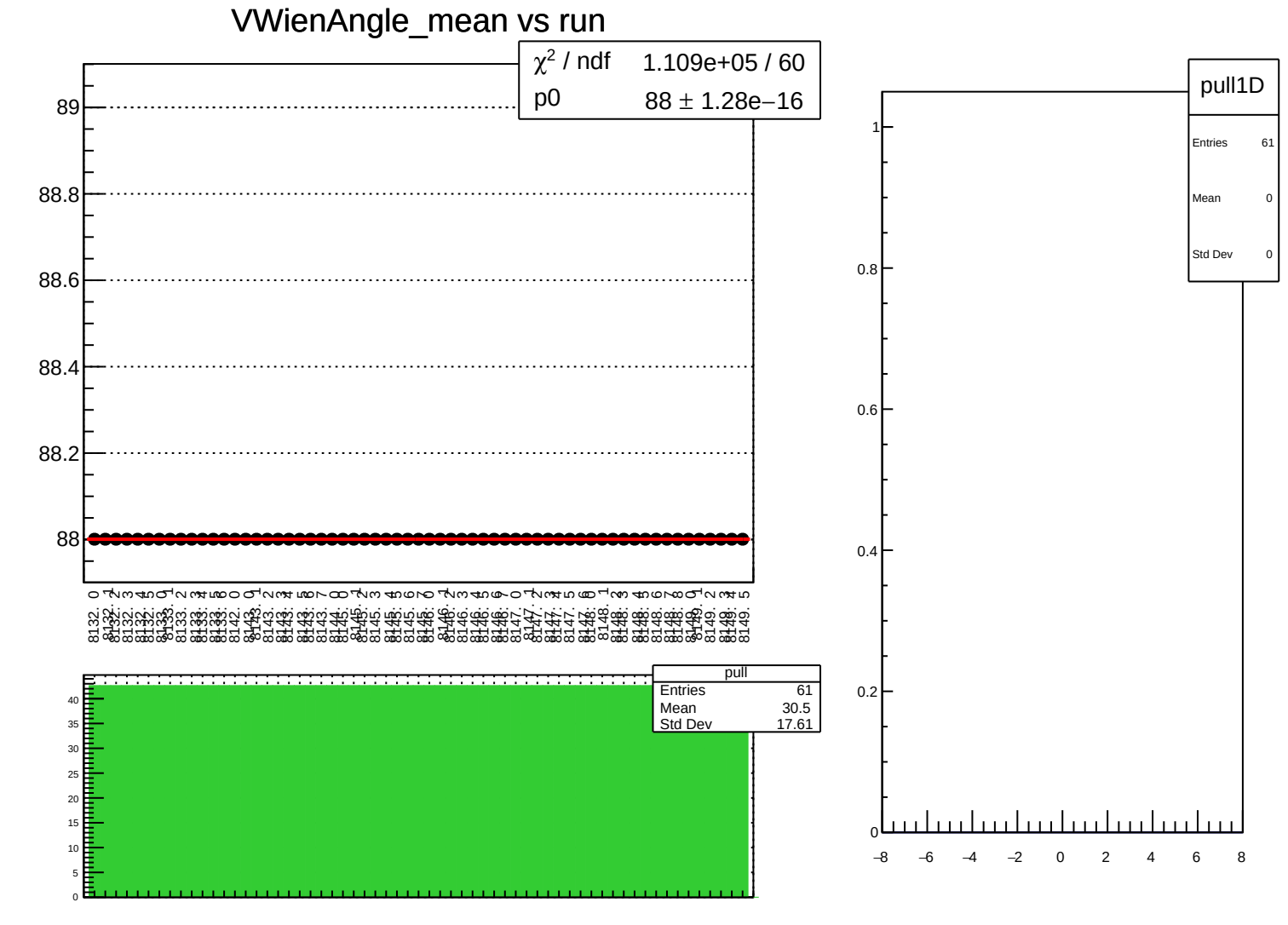

pull1D
Entries 61
Mean −0.04182
Std Dev 1.177

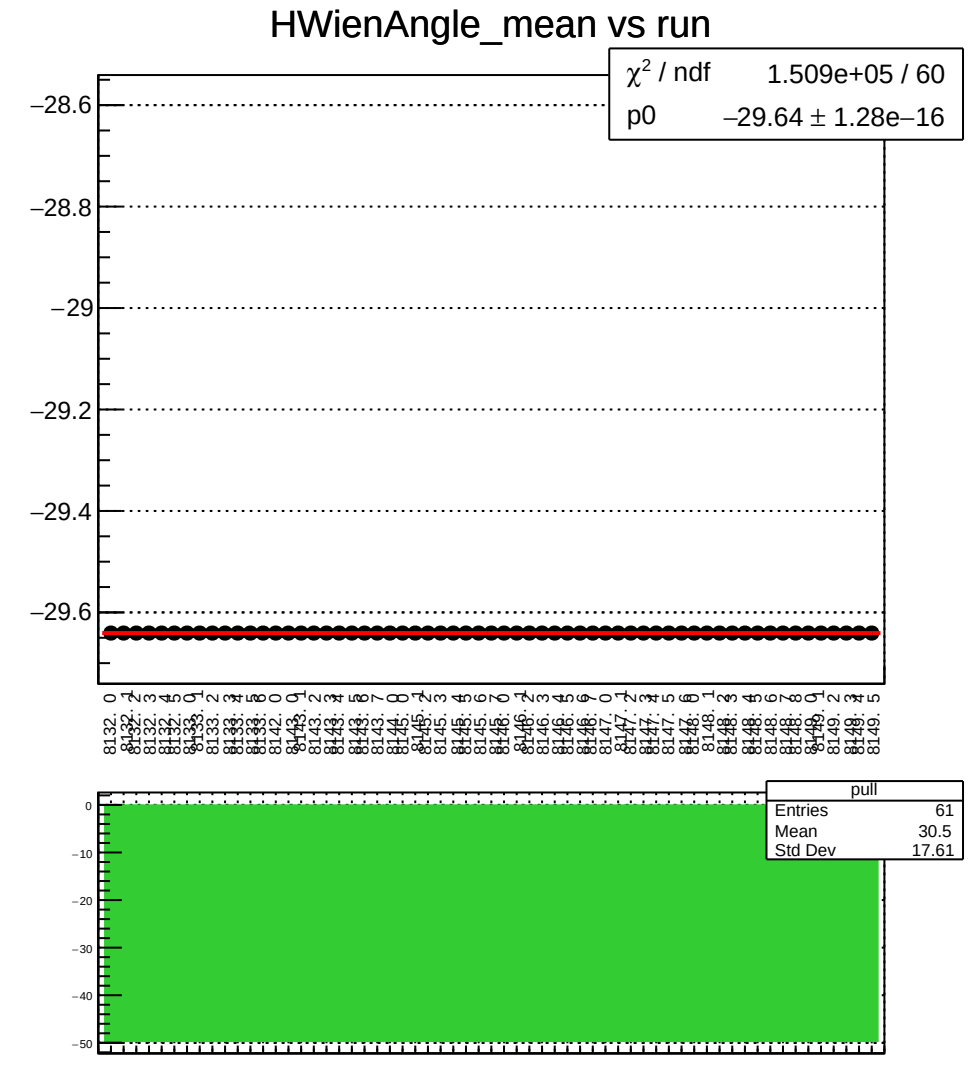

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 68.19 / 60
p0 −1.337 ± 0.3406
pull
Entries 61
Mean −30.54
Std Dev 96.31

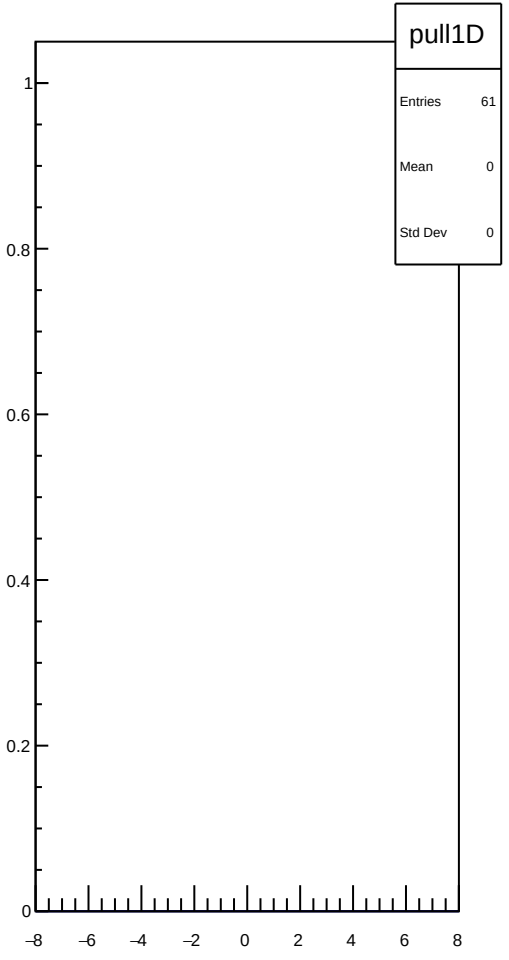

pull1D
Entries 61
Mean −0.01228
Std Dev 1.057

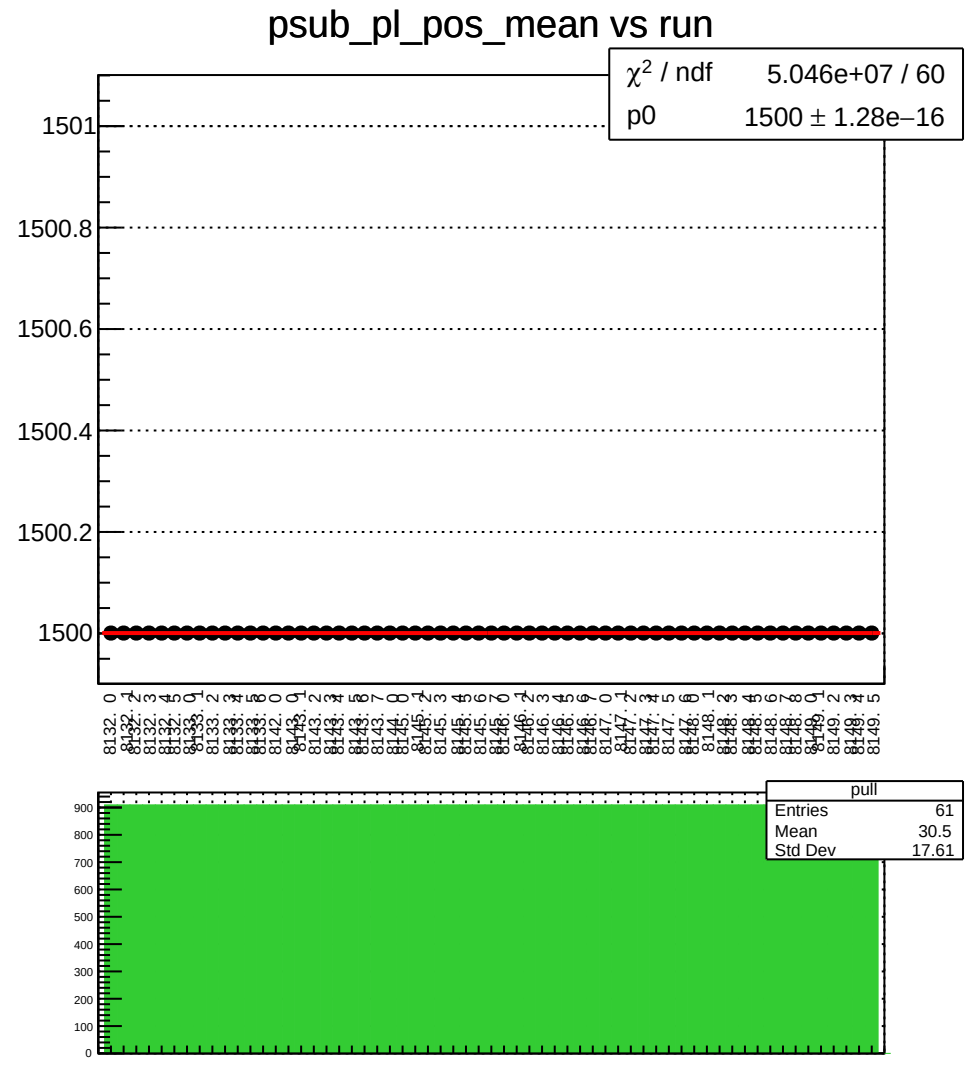

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 122.1 / 60
p0 0.1531± 0.01403
pull
Entries 61
Mean 36.56
Std Dev 22.88

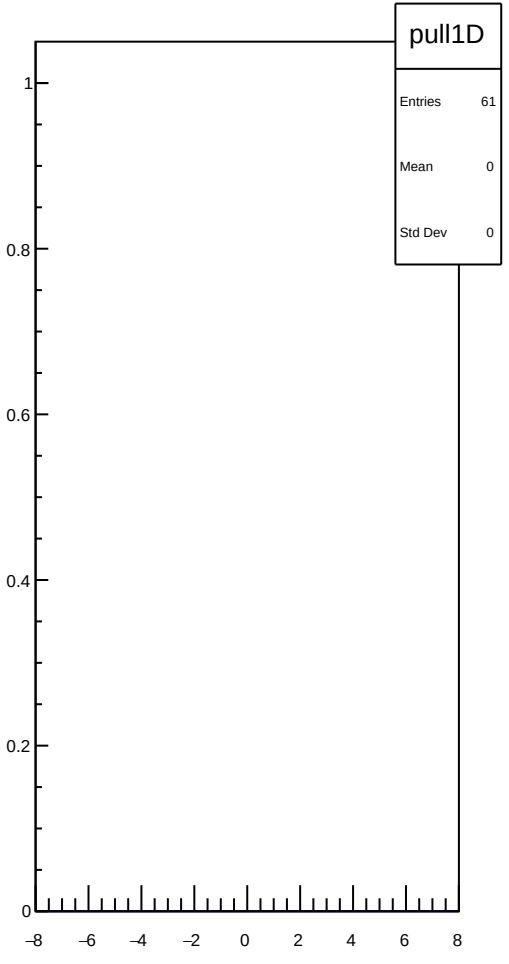

pull1D
Entries 61
Mean 0.1598
Std Dev 1.406

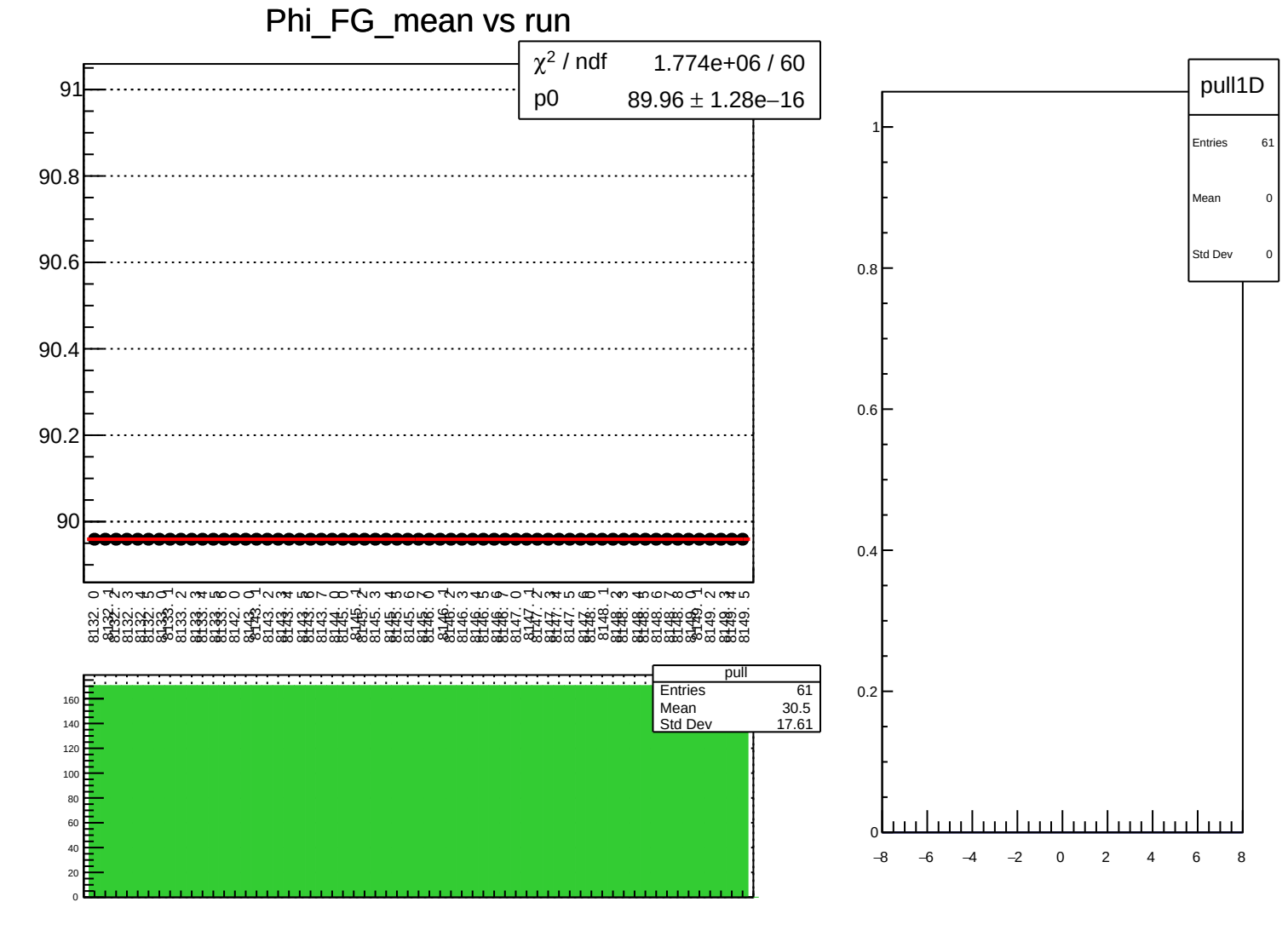

VWienAngle_mean vs run
χ² / ndf 1.109e+05 / 60
p0 88 ± 1.28e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 61
Mean 30.5
Std Dev 17.61
40
35
30
25
20
15
10
5
0
pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

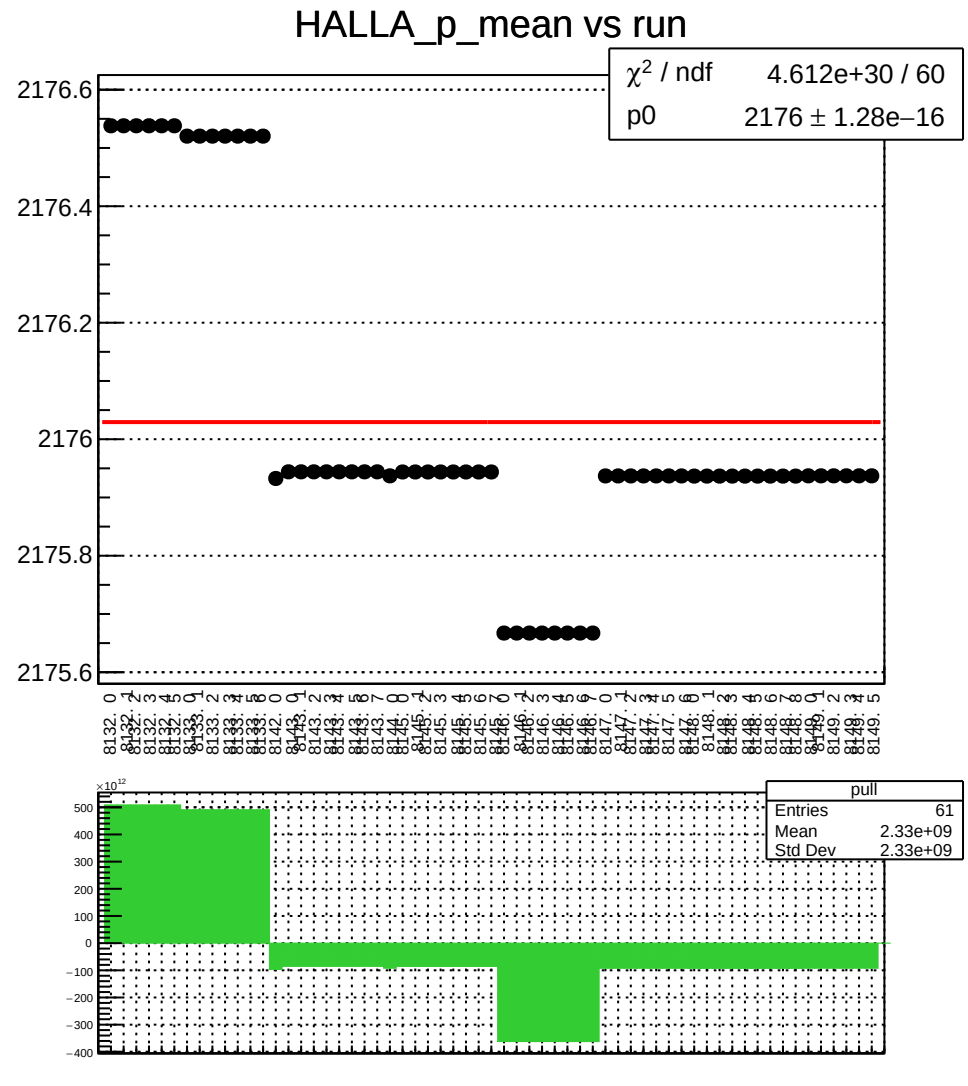

HWienAngle_mean vs run
χ² / ndf 1.509e+05 / 60
p0 −29.64 ± 1.28e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 61
Mean 30.5
Std Dev 17.61
0
−10
−20
−30
−40
−50

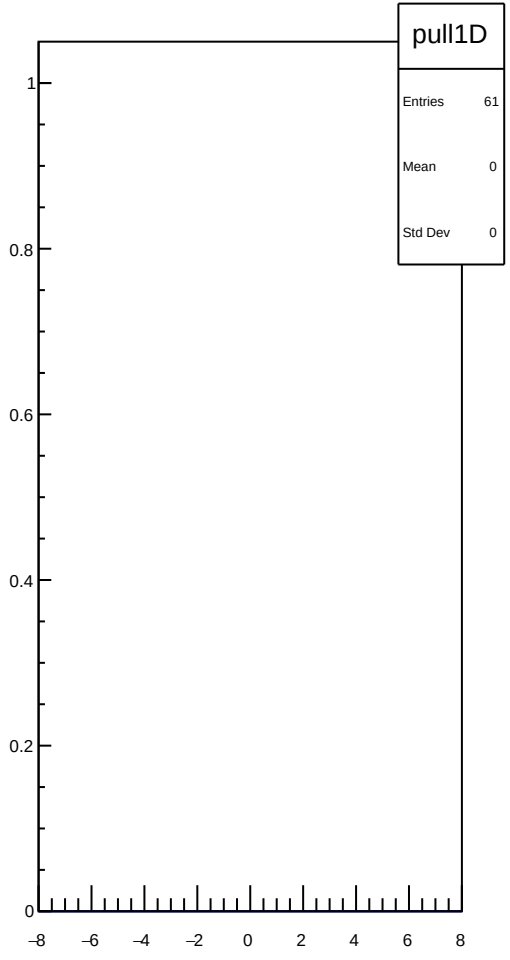

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

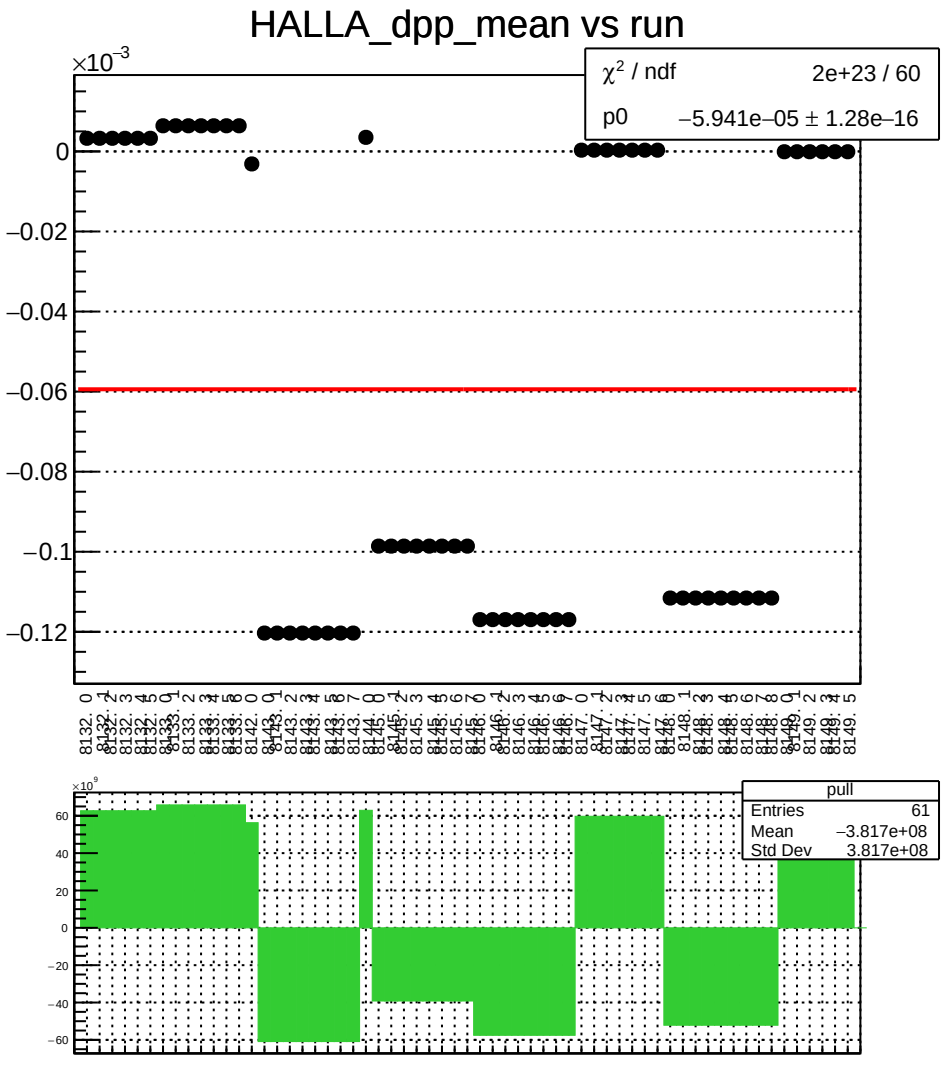

psub_pl_pos_mean vs run
χ² / ndf 5.046e+07 / 60
p0 1500 ± 1.28e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 61
Mean 30.5
Std Dev 17.61
900
800
700
600
500
400
300
200
100
0

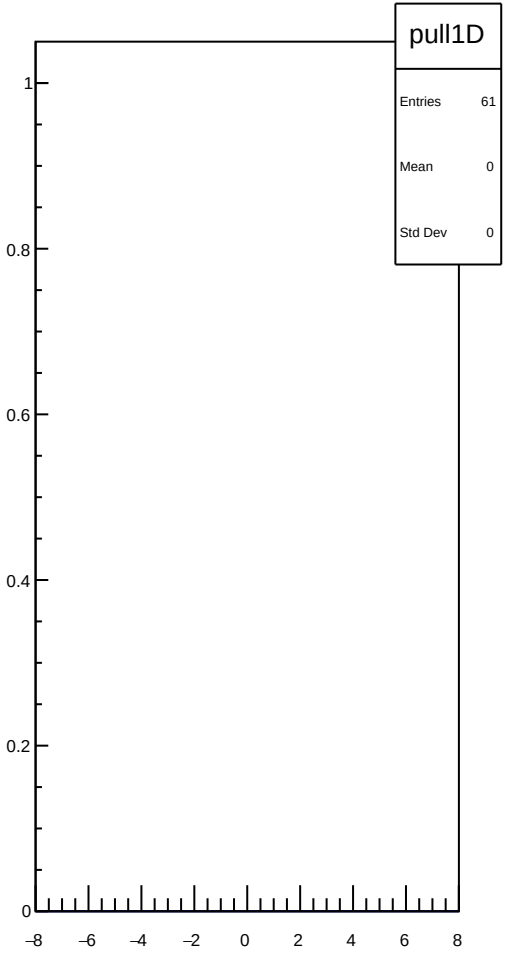

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

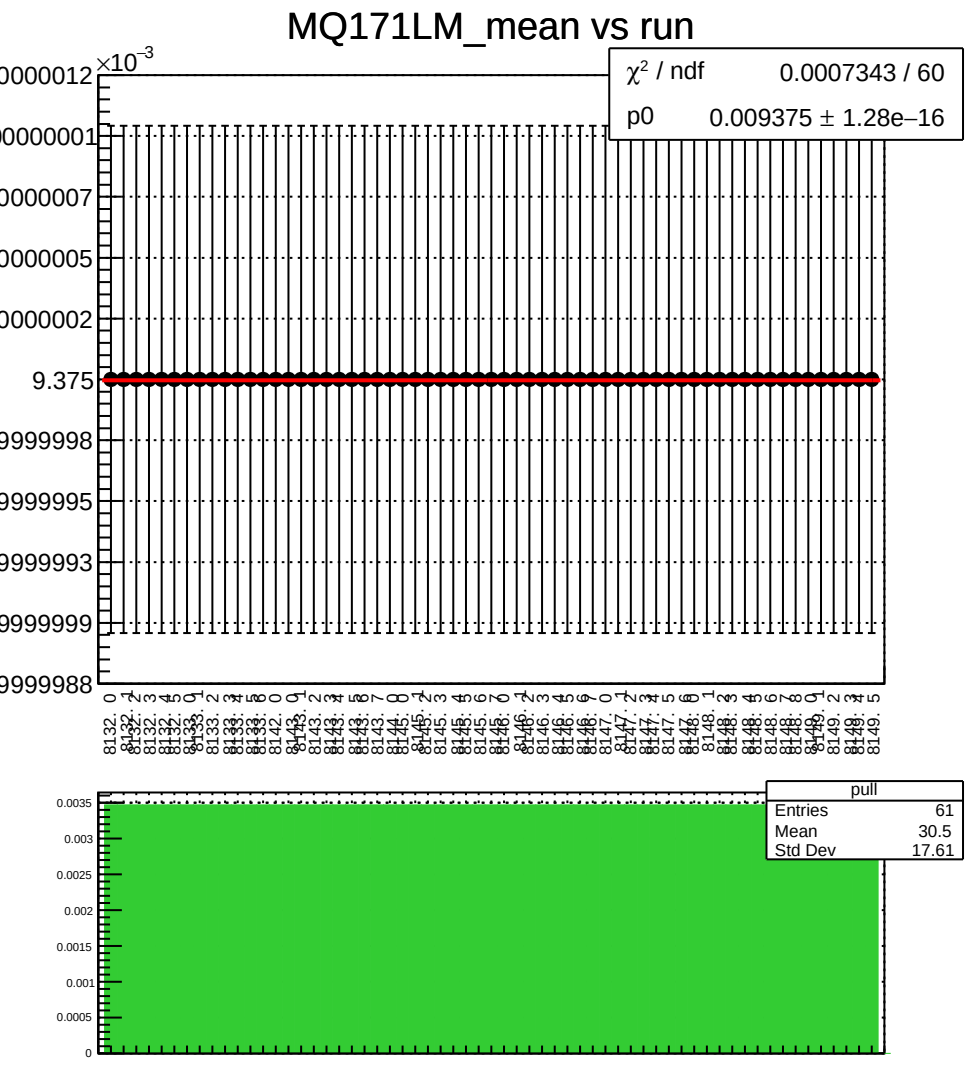

Phi_FG_mean vs run
χ² / ndf 1.774e+06 / 60
p0 89.96 ± 1.28e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 61
Mean 30.5
Std Dev 17.61
160
140
120
100
80
60
40
20
0
pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

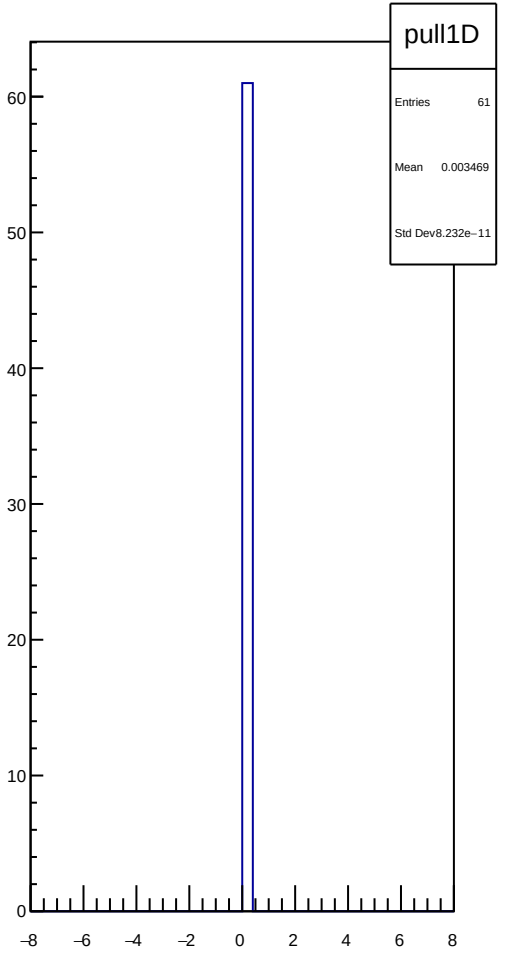

HALLA_p_mean vs run
χ² / ndf 4.612e+30 / 60
p0 2176 ± 1.28e−16
2176.6
2176.4
2176.2
2176
2175.8
2175.6
pull
Entries 61
Mean 2.33e+09
Std Dev 2.33e+09
×10¹²
500
400
300
200
100
0
−100
−200
−300
−400

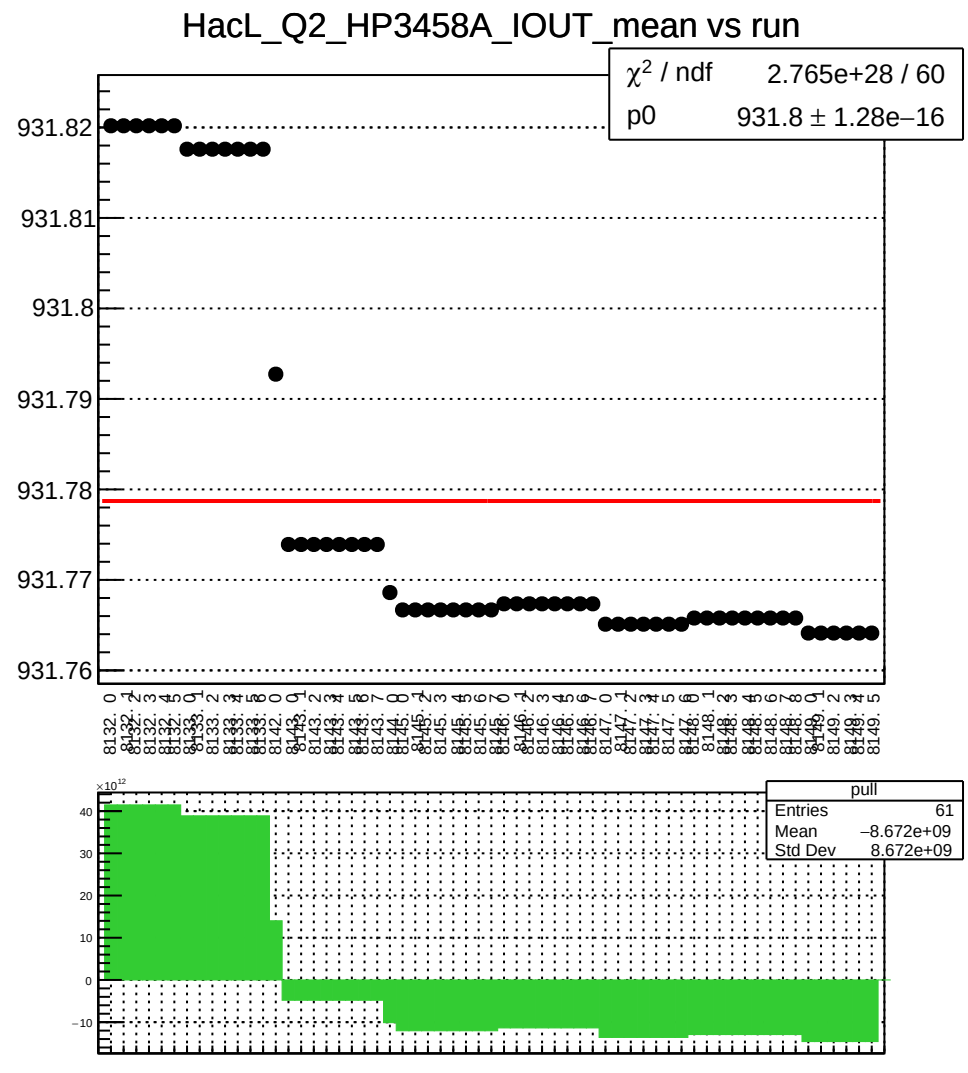

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

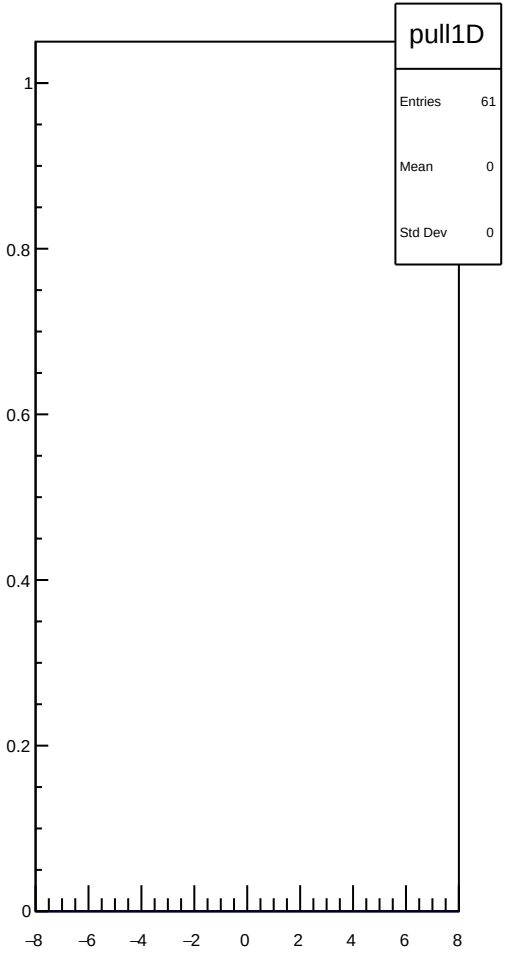

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2e+23 / 60
p0 −5.941e−05 ± 1.28e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
pull
Entries 61
Mean −3.817e+08
Std Dev 3.817e+08
60
40
20
0
−20
−40
−60

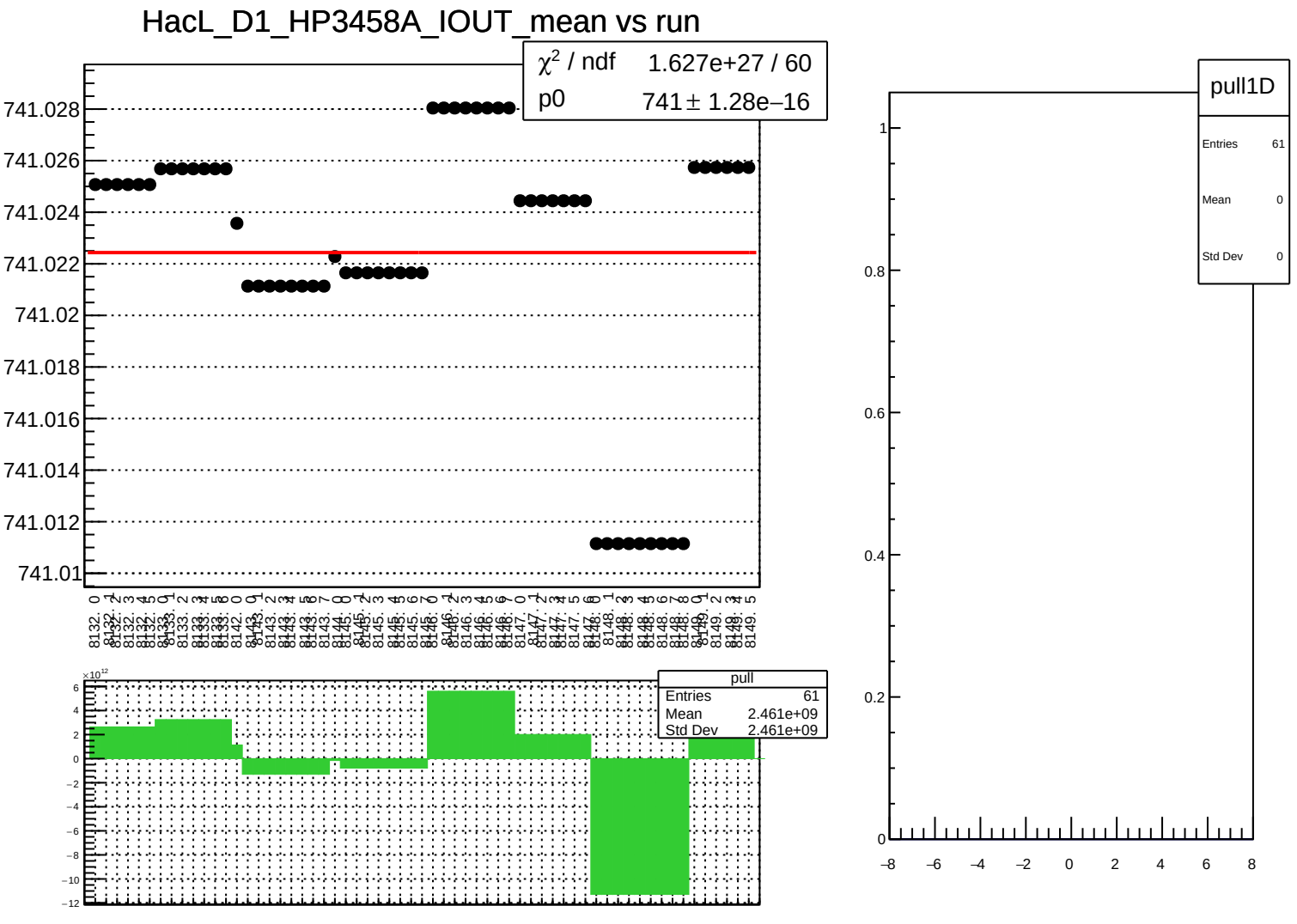

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

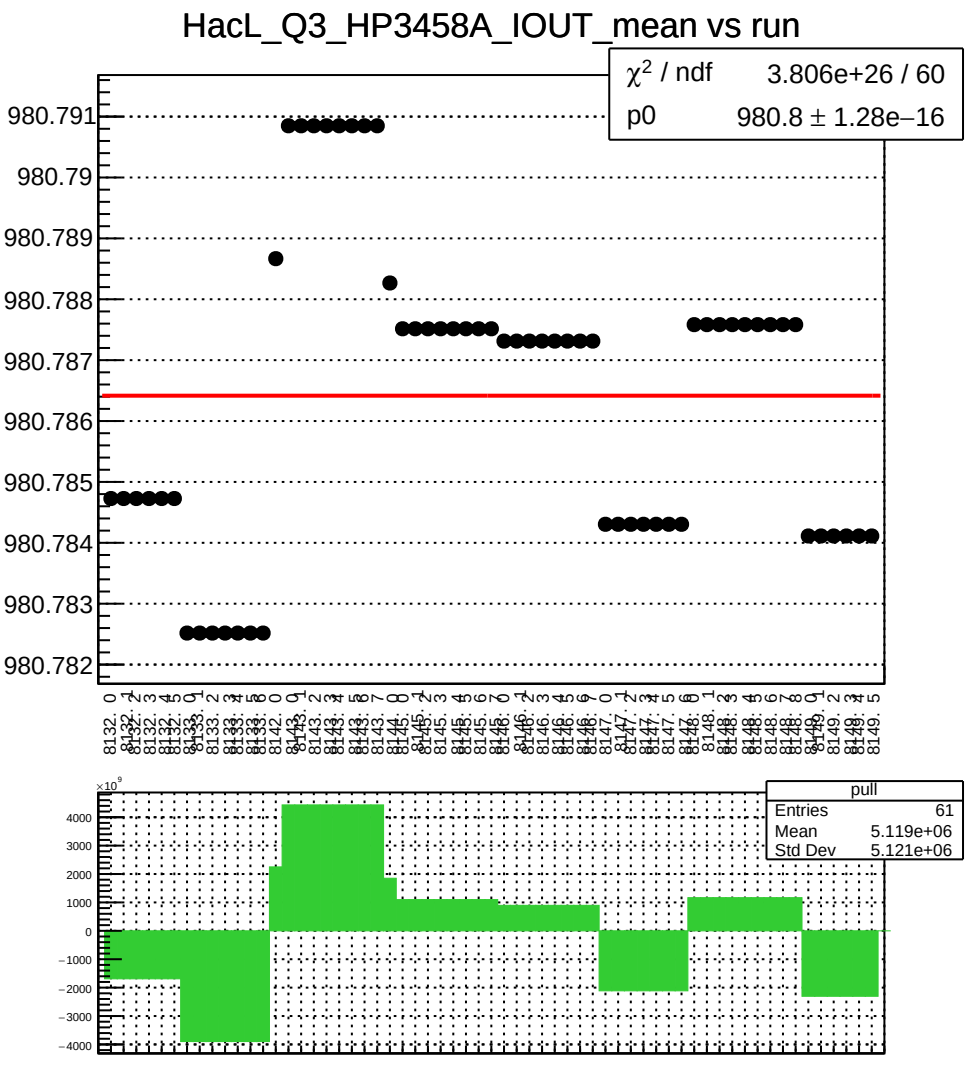

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.0007343 / 60
p0 0.009375 ± 1.28e−16
pull
Entries 61
Mean 30.5
Std Dev 17.61

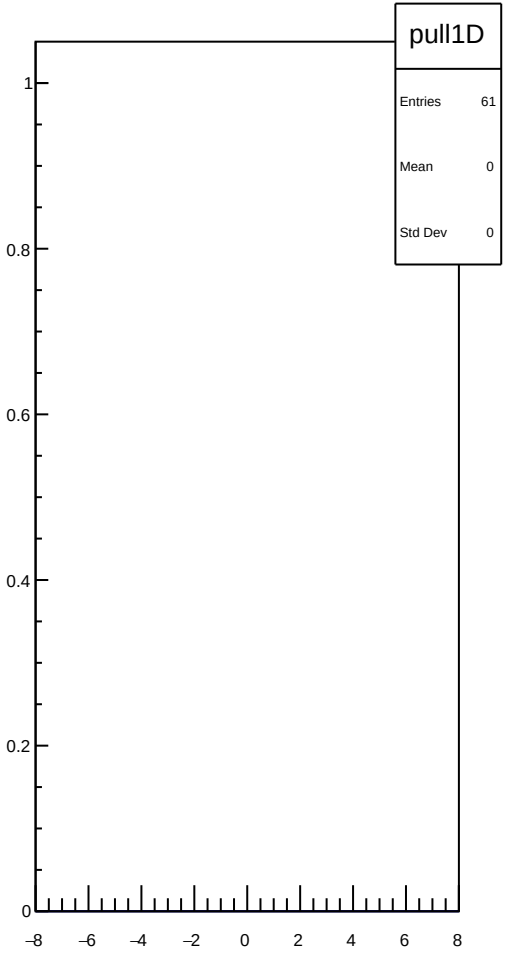

pull1D
Entries 61
Mean 0.003469
Std Dev 8.232e−11

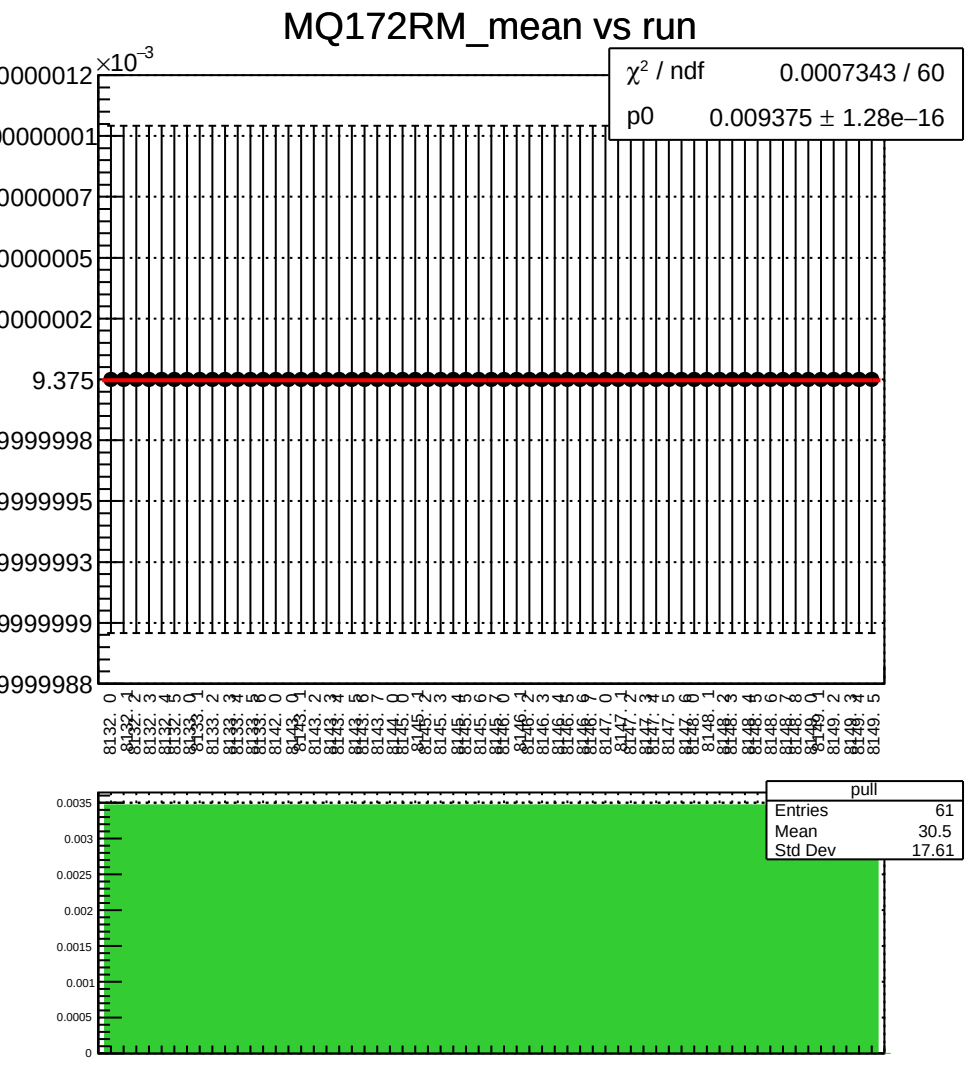

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.765e+28 / 60
p0 931.8 ± 1.28e−16
931.82
931.81
931.8
931.79
931.78
931.77
931.76
pull
Entries 61
Mean −8.672e+09
Std Dev 8.672e+09
×10¹²
40
30
20
10
0
−10

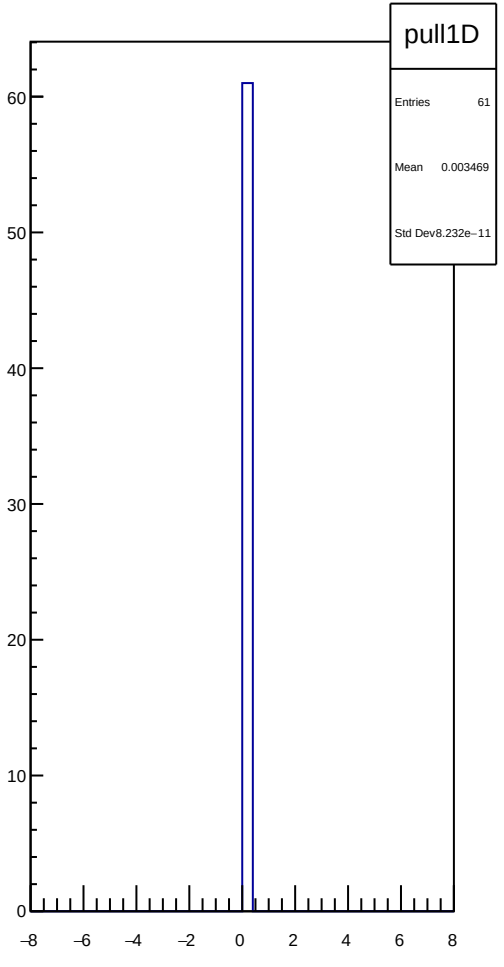

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

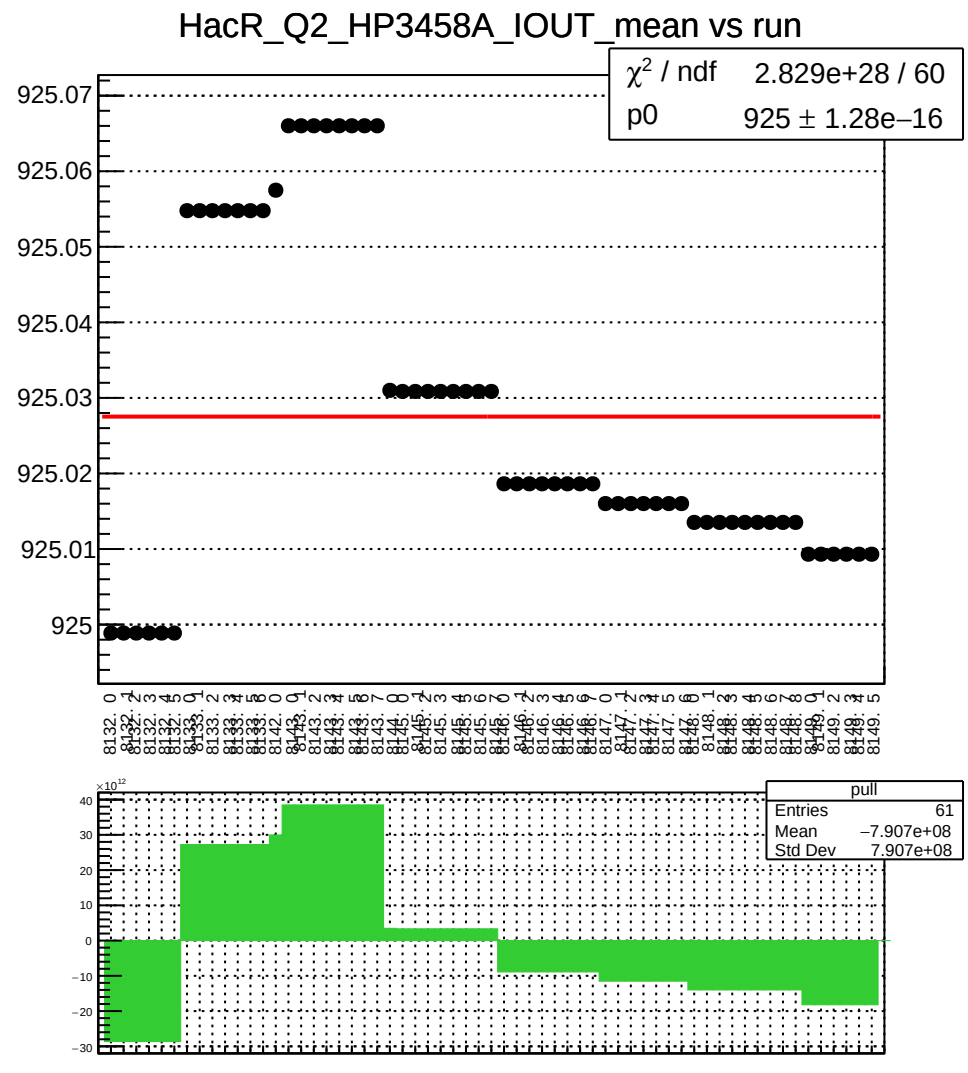

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.627e+27 / 60
p0 741 ± 1.28e−16
741.028
741.026
741.024
741.022
741.02
741.018
741.016
741.014
741.012
741.01
×10¹²
pull
Entries 61
Mean 2.461e+09
Std Dev 2.461e+09
pull1D
Entries 61
Mean 0
Std Dev 0

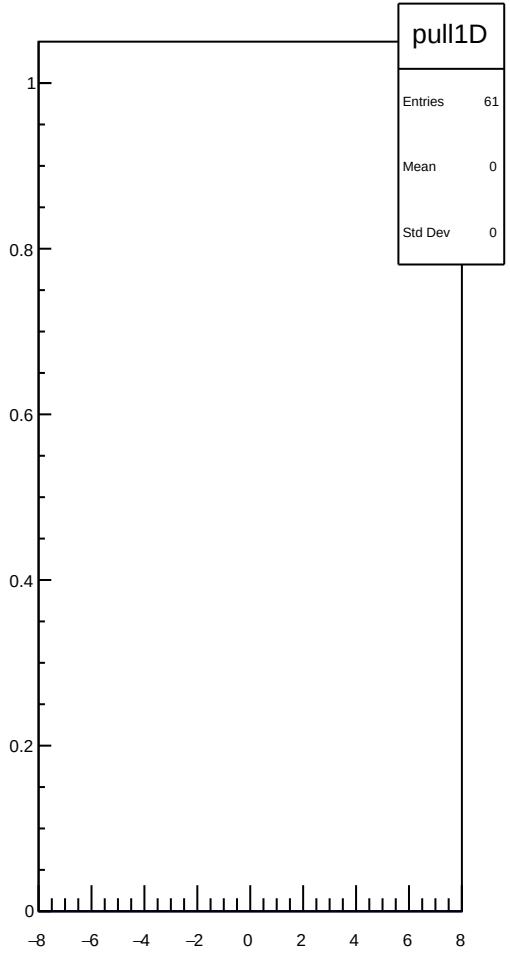

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.806e+26 / 60
p0 980.8 ± 1.28e−16
980.791
980.79
980.789
980.788
980.787
980.786
980.785
980.784
980.783
980.782
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 61
Mean 5.119e+06
Std Dev 5.121e+06

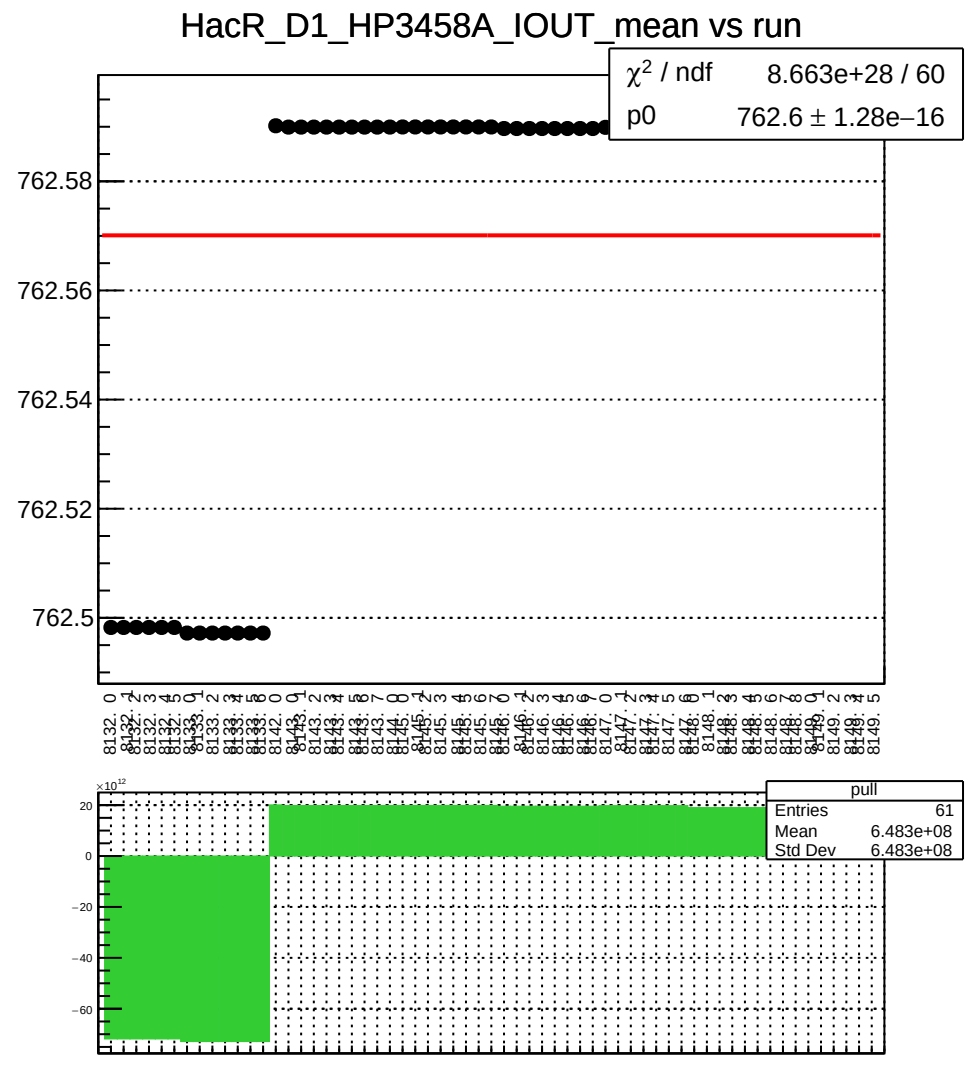

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

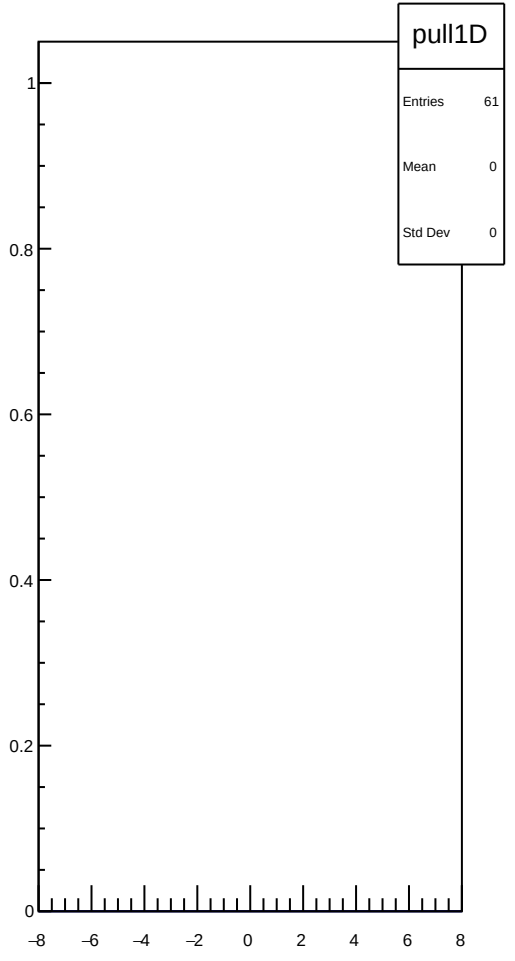

MQ172RM_mean vs run
χ² / ndf 0.0007343 / 60
p0 0.009375 ± 1.28e−16
×10⁻³
pull
Entries 61
Mean 30.5
Std Dev 17.61

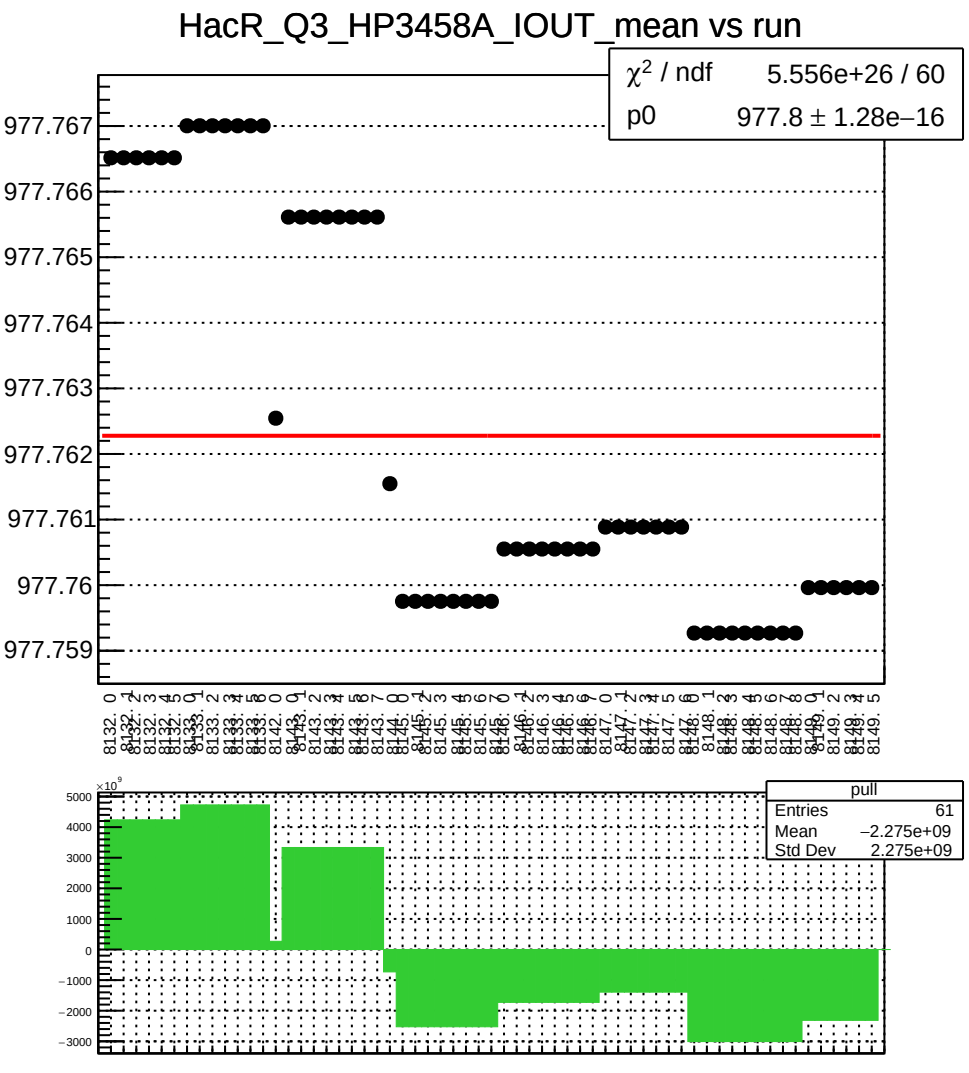

pull1D
Entries 61
Mean 0.003469
Std Dev 8.232e−11

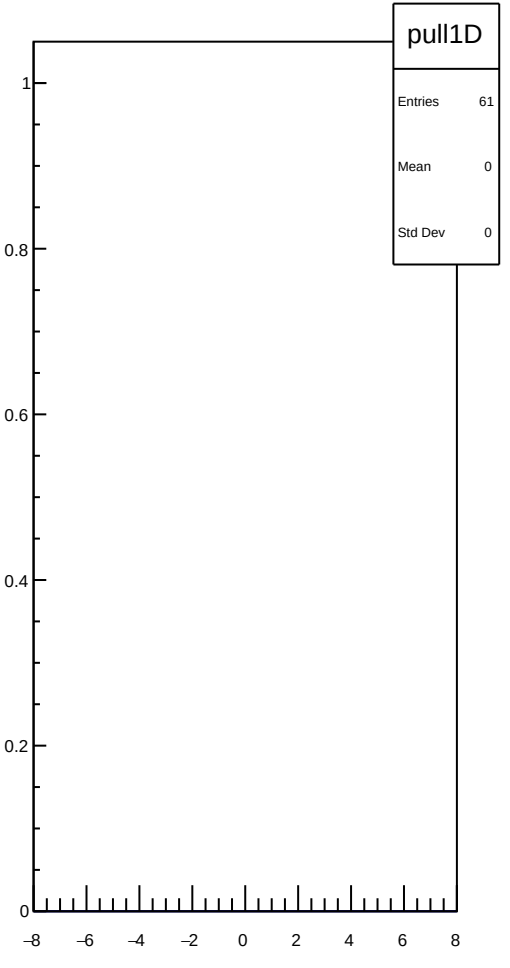

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.829e+28 / 60
p0 925 ± 1.28e−16
925.07
925.06
925.05
925.04
925.03
925.02
925.01
925
pull
Entries 61
Mean −7.907e+08
Std Dev 7.907e+08
×10¹²
40
30
20
10
0
−10
−20
−30

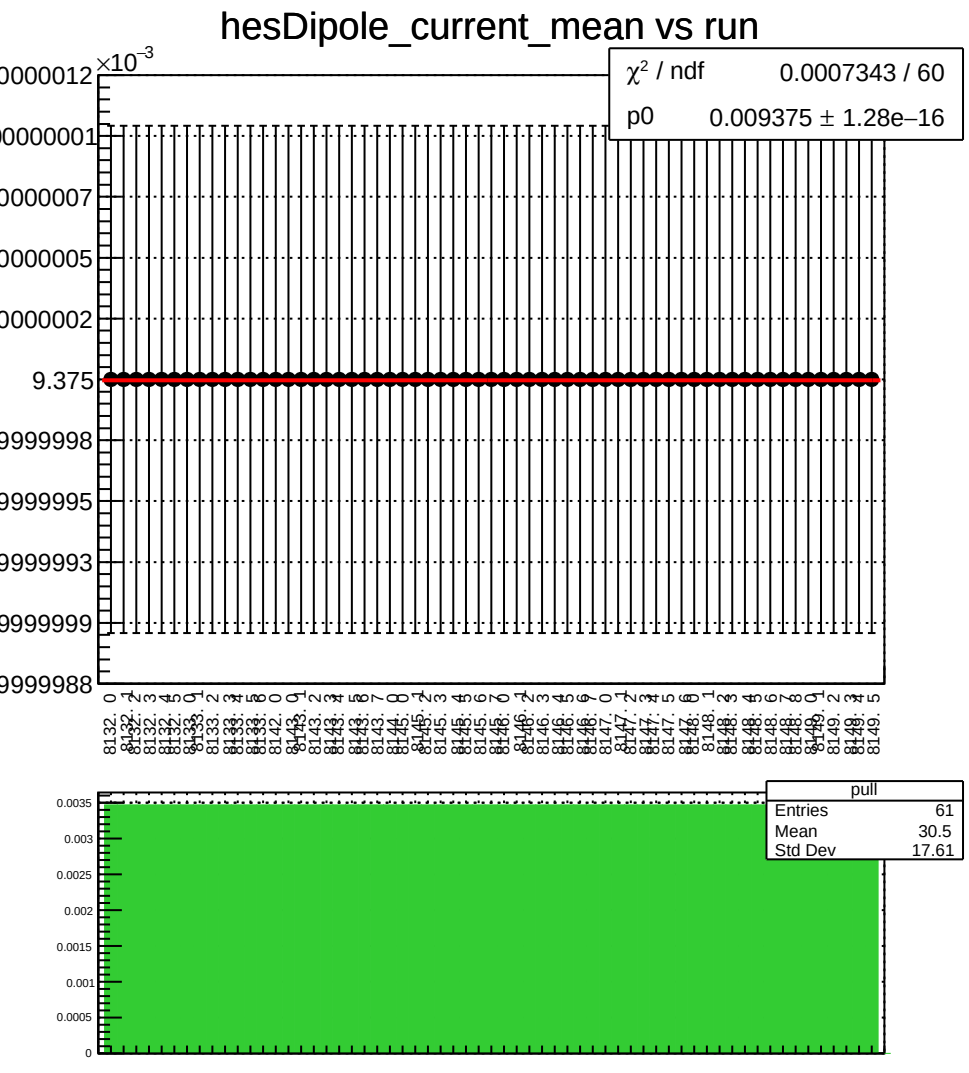

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

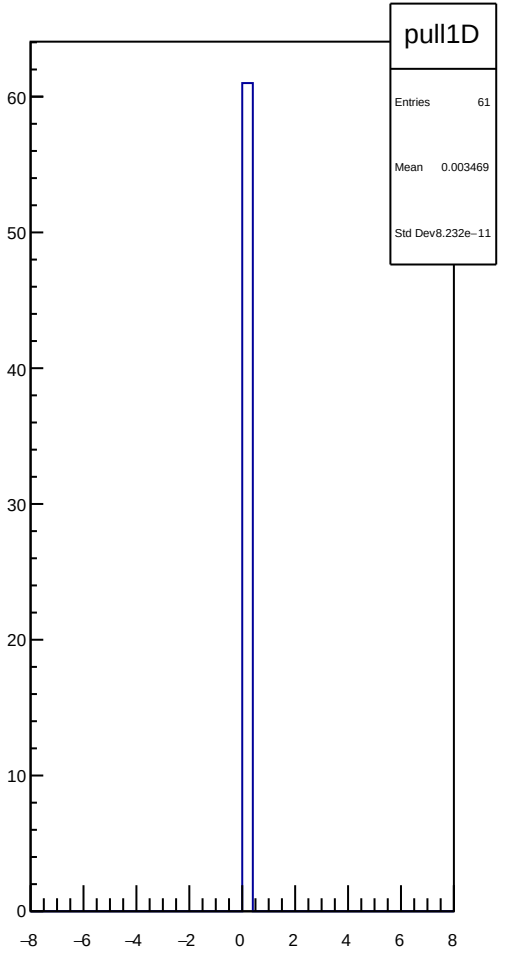

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 8.663e+28 / 60
p0 762.6 ± 1.28e−16
762.58
762.56
762.54
762.52
762.5
pull
Entries 61
Mean 6.483e+08
Std Dev 6.483e+08
×10¹²
20
0
−20
−40
−60

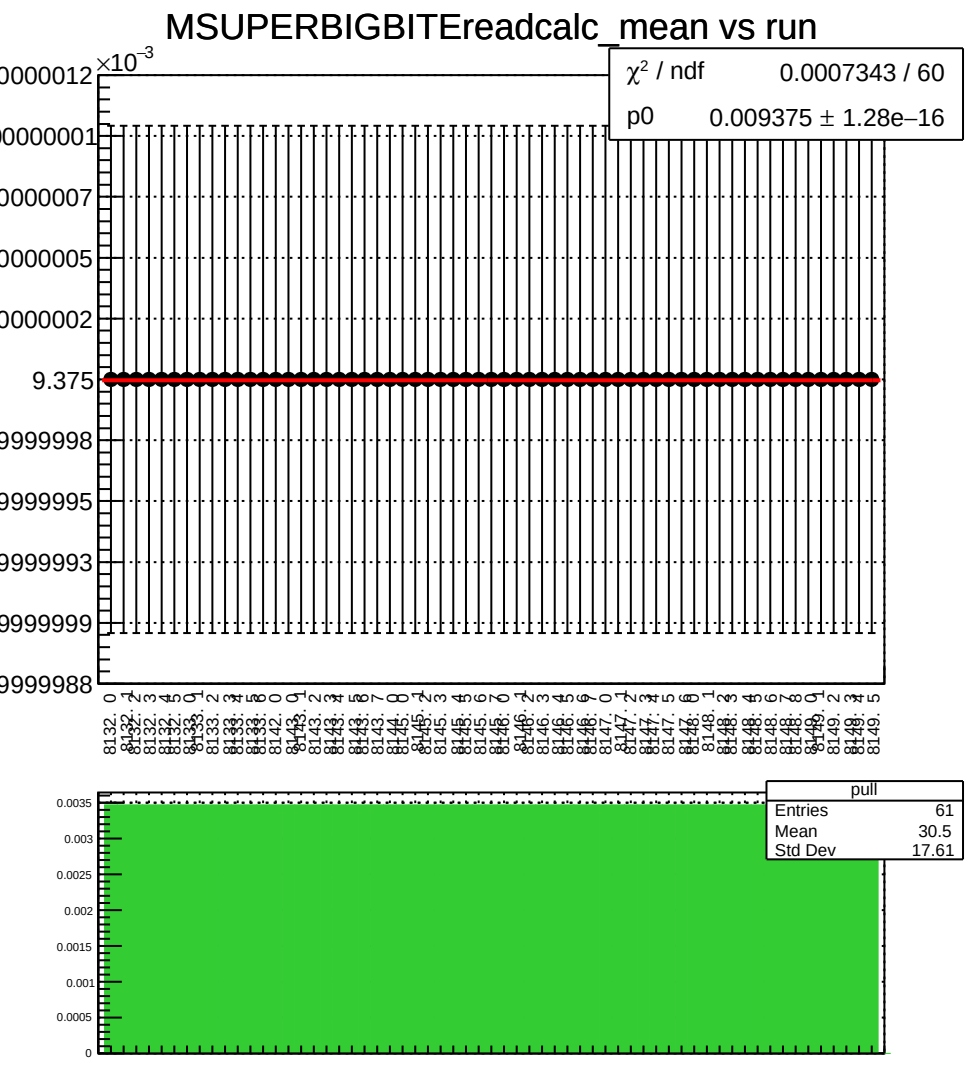

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

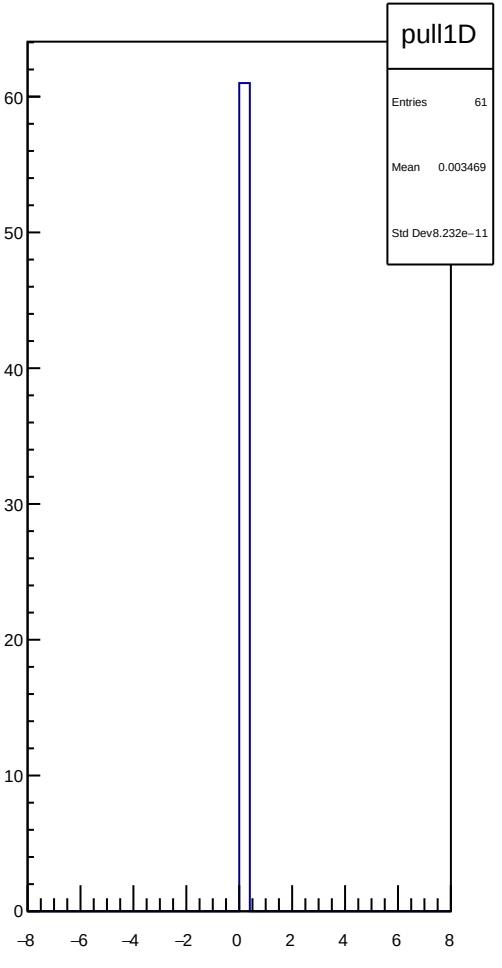

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.556e+26 / 60
p0 977.8 ± 1.28e−16
977.767
977.766
977.765
977.764
977.763
977.762
977.761
977.76
977.759
pull
Entries 61
Mean −2.275e+09
Std Dev 2.275e+09
×10⁹
5000
4000
3000
2000
1000
0
−1000
−2000
−3000

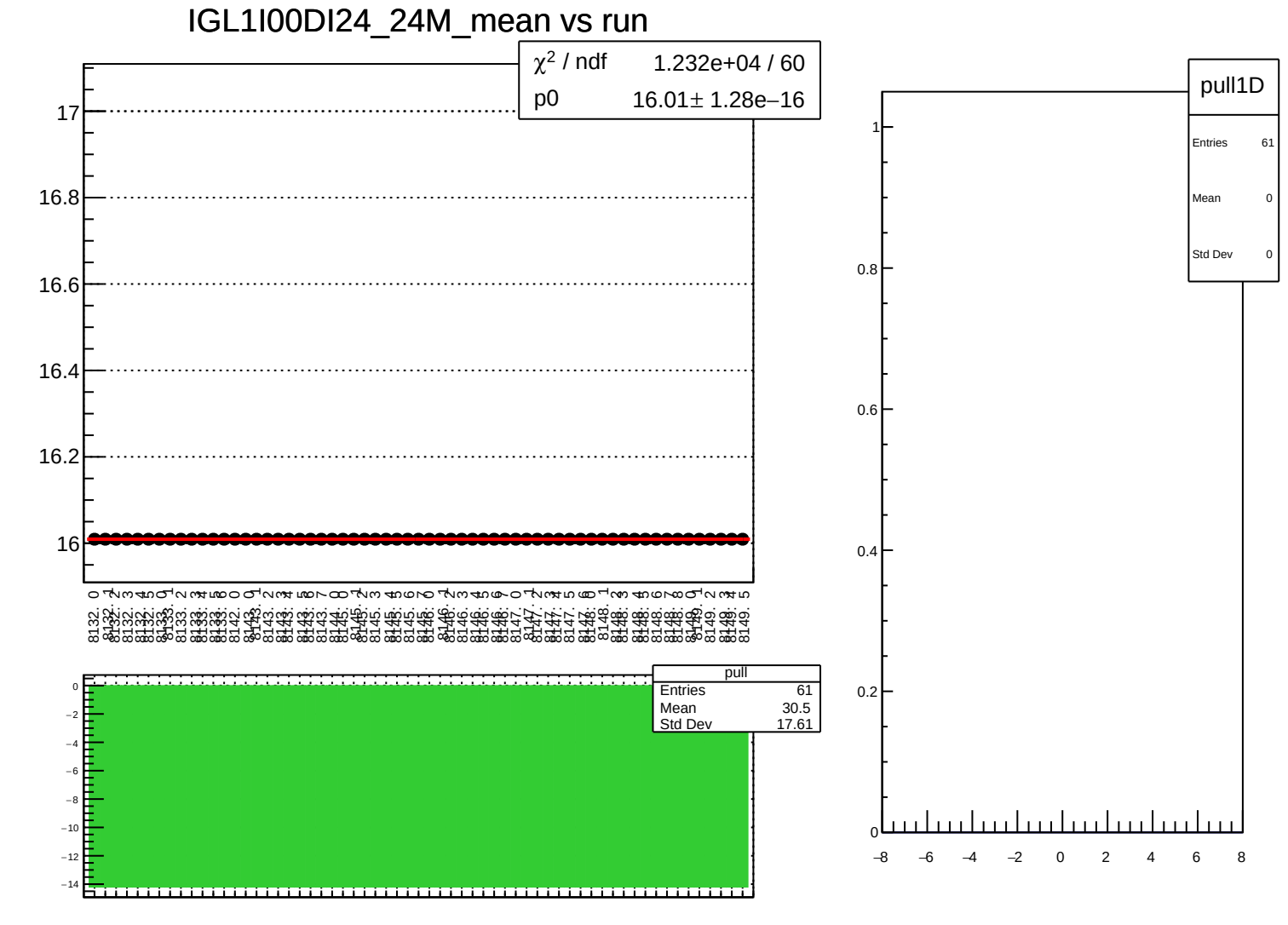

pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

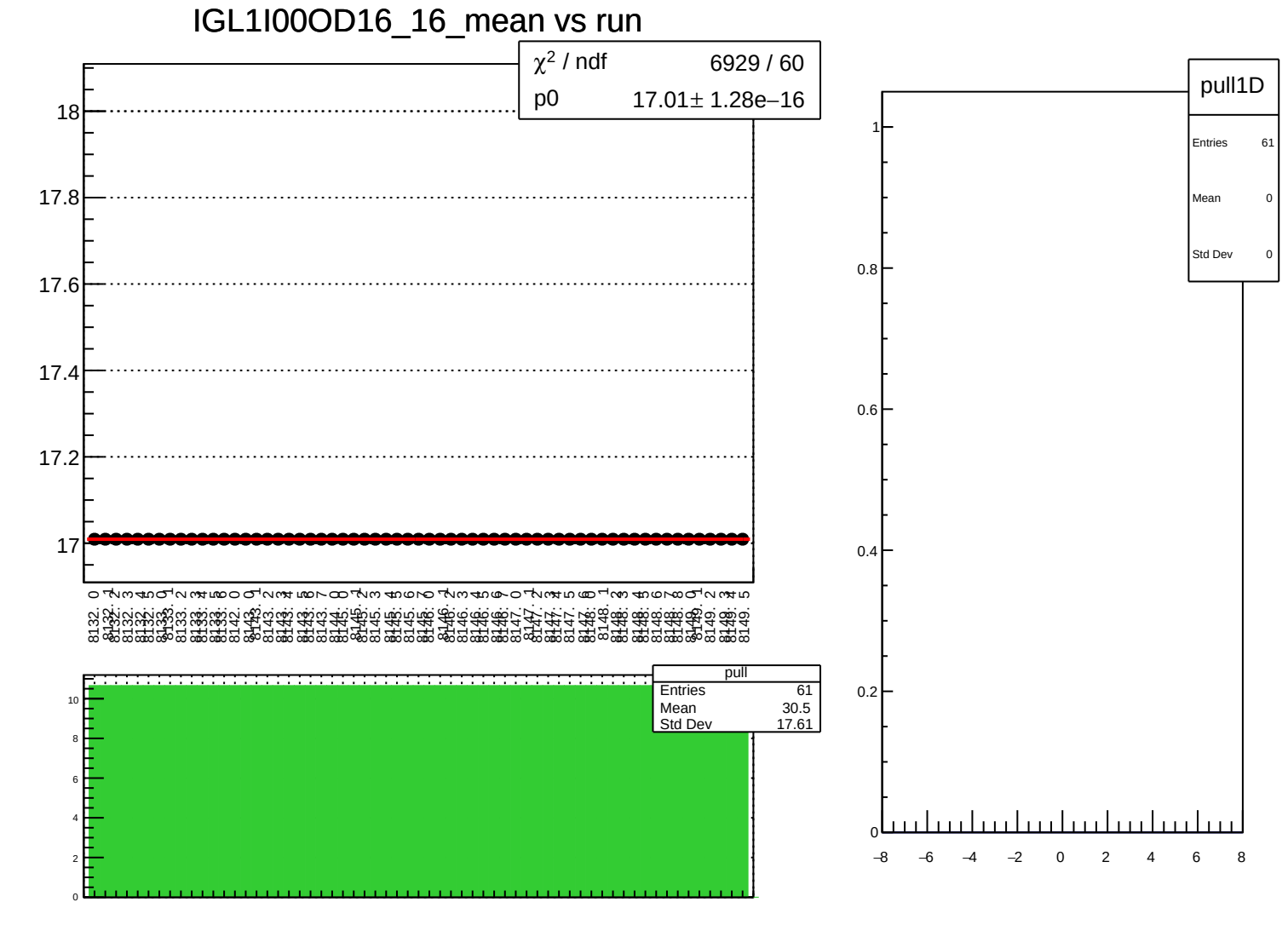

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.0007343 / 60
p0 0.009375 ± 1.28e−16
pull
Entries 61
Mean 30.5
Std Dev 17.61

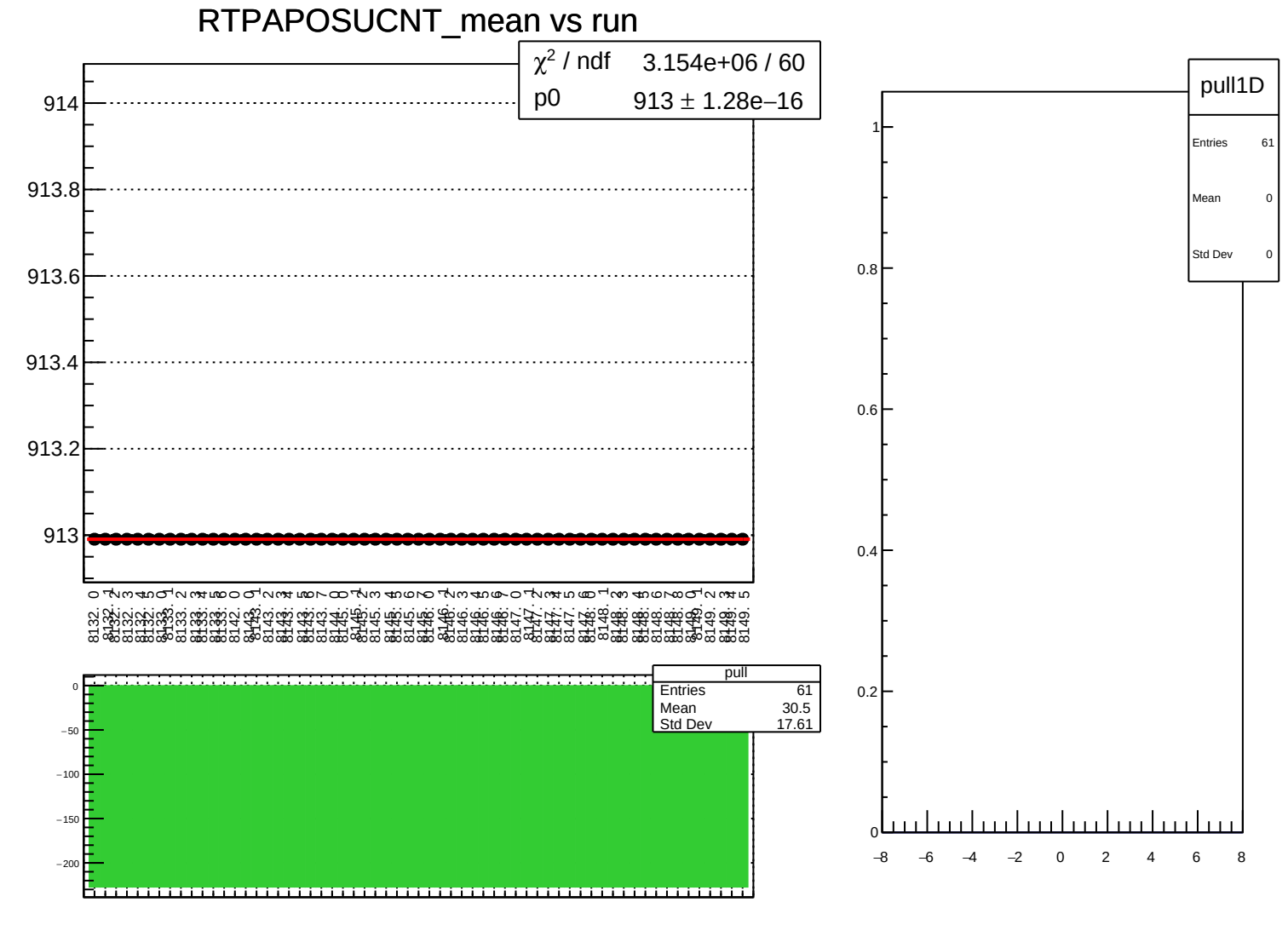

pull1D
Entries 61
Mean 0.003469
Std Dev 8.232e−11

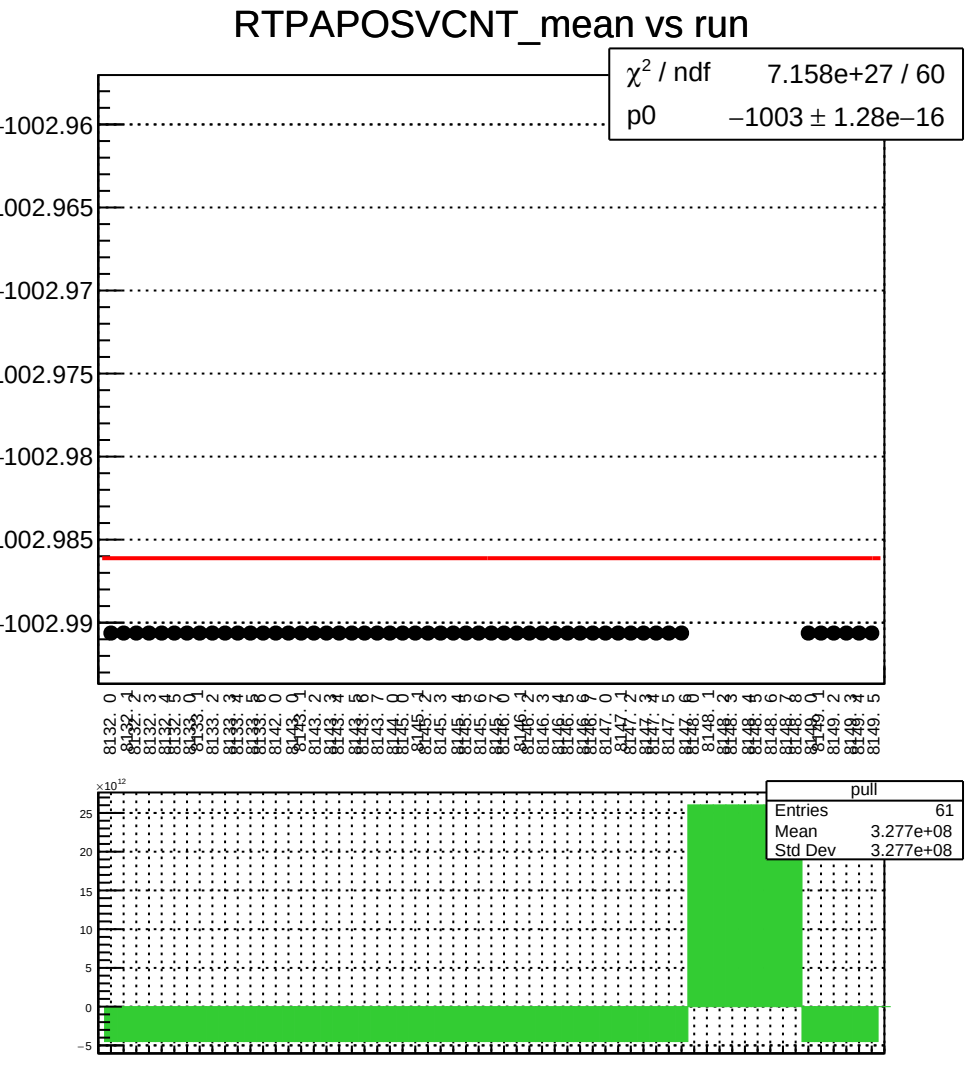

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0007343 / 60
p0 0.009375 ± 1.28e−16
×10⁻³
pull
Entries 61
Mean 30.5
Std Dev 17.61

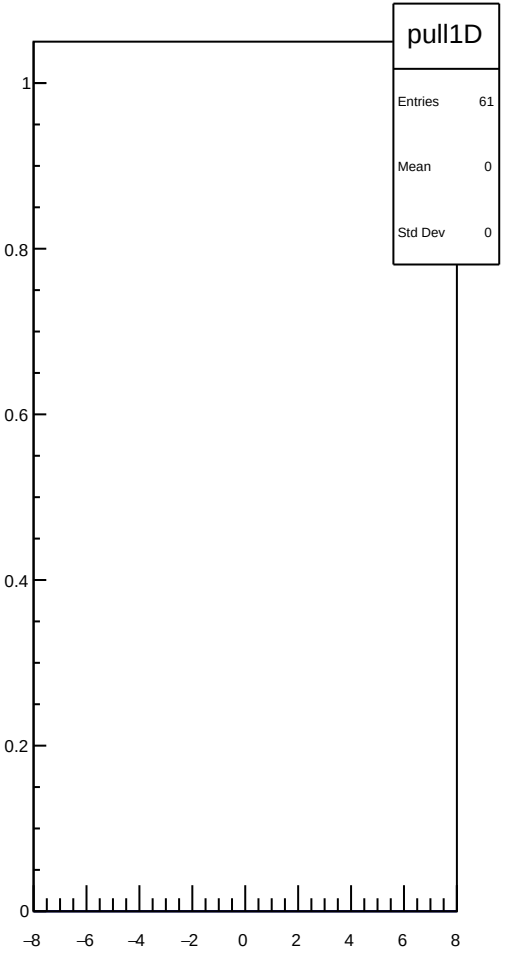

pull1D
Entries 61
Mean 0.003469
Std Dev 8.232e−11


IGL1I00DI24_24M_mean vs run
χ² / ndf 1.232e+04 / 60
p0 16.01± 1.28e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 61
Mean 30.5
Std Dev 17.61
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00OD16_16_mean vs run
χ² / ndf 6929 / 60
p0 17.01± 1.28e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 61
Mean 30.5
Std Dev 17.61
10
8
6
4
2
0
pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 3.154e+06 / 60
p0 913 ± 1.28e−16
914
913.8
913.6
913.4
913.2
913
pull
Entries 61
Mean 30.5
Std Dev 17.61
0
−50
−100
−150
−200
pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 7.158e+27 / 60
p0 −1003 ± 1.28e−16
−1002.96
−1002.965
−1002.97
−1002.975
−1002.98
−1002.985
−1002.99
pull
Entries 61
Mean 3.277e+08
Std Dev 3.277e+08
×10¹²
25
20
15
10
5
0
−5


pull1D
Entries 61
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8