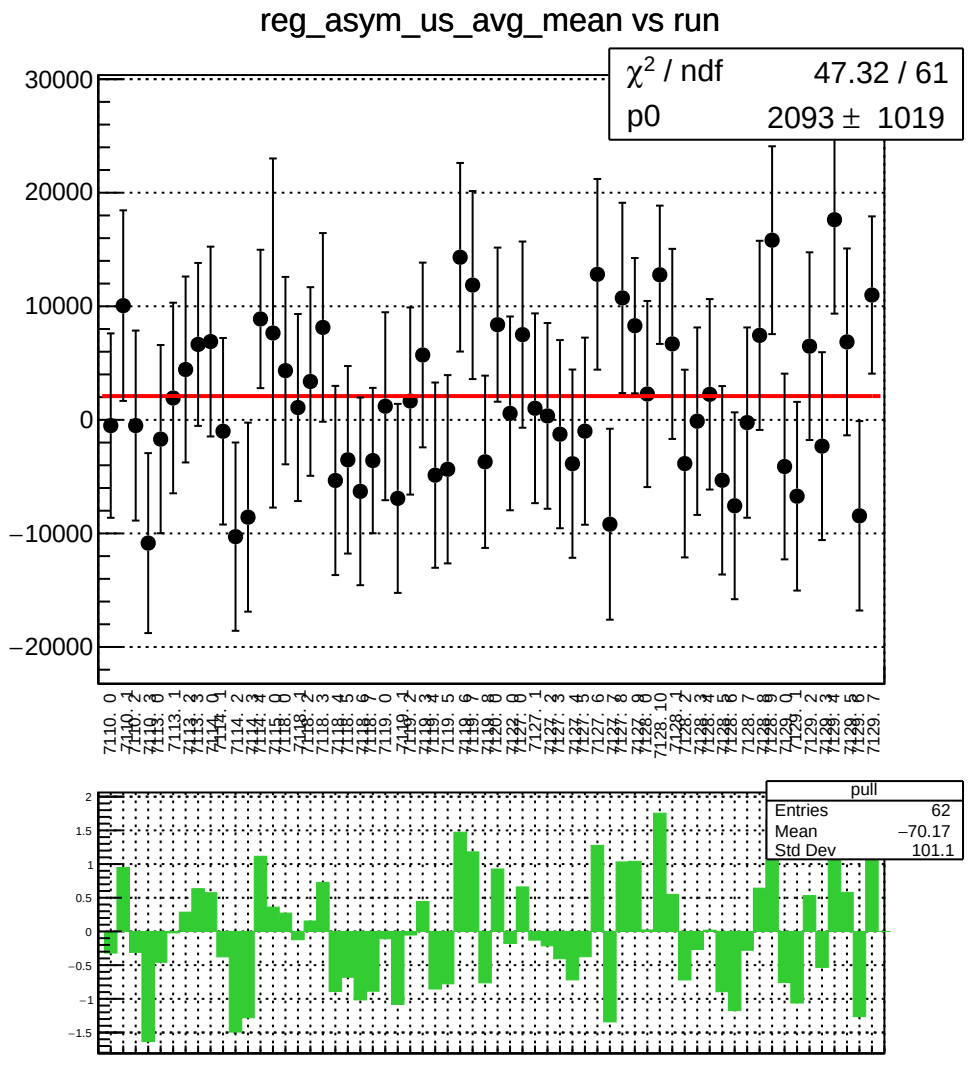
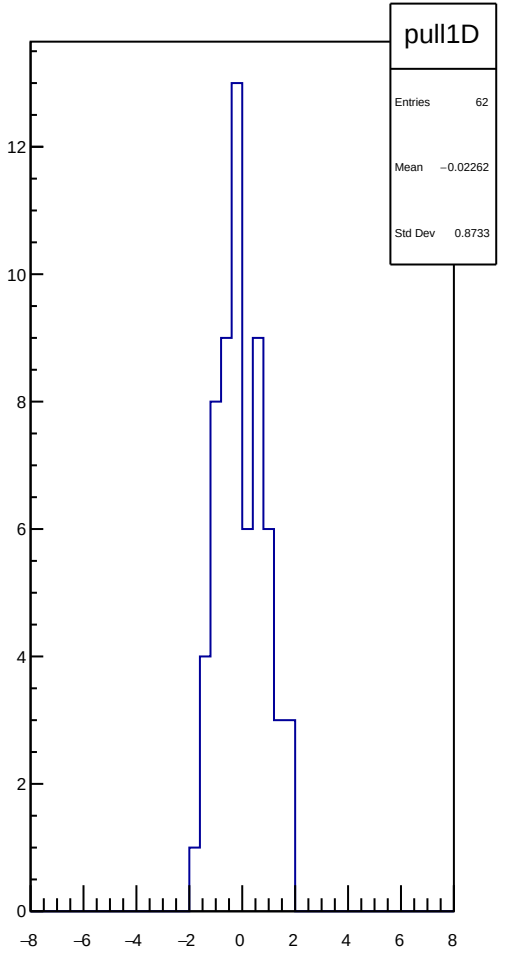
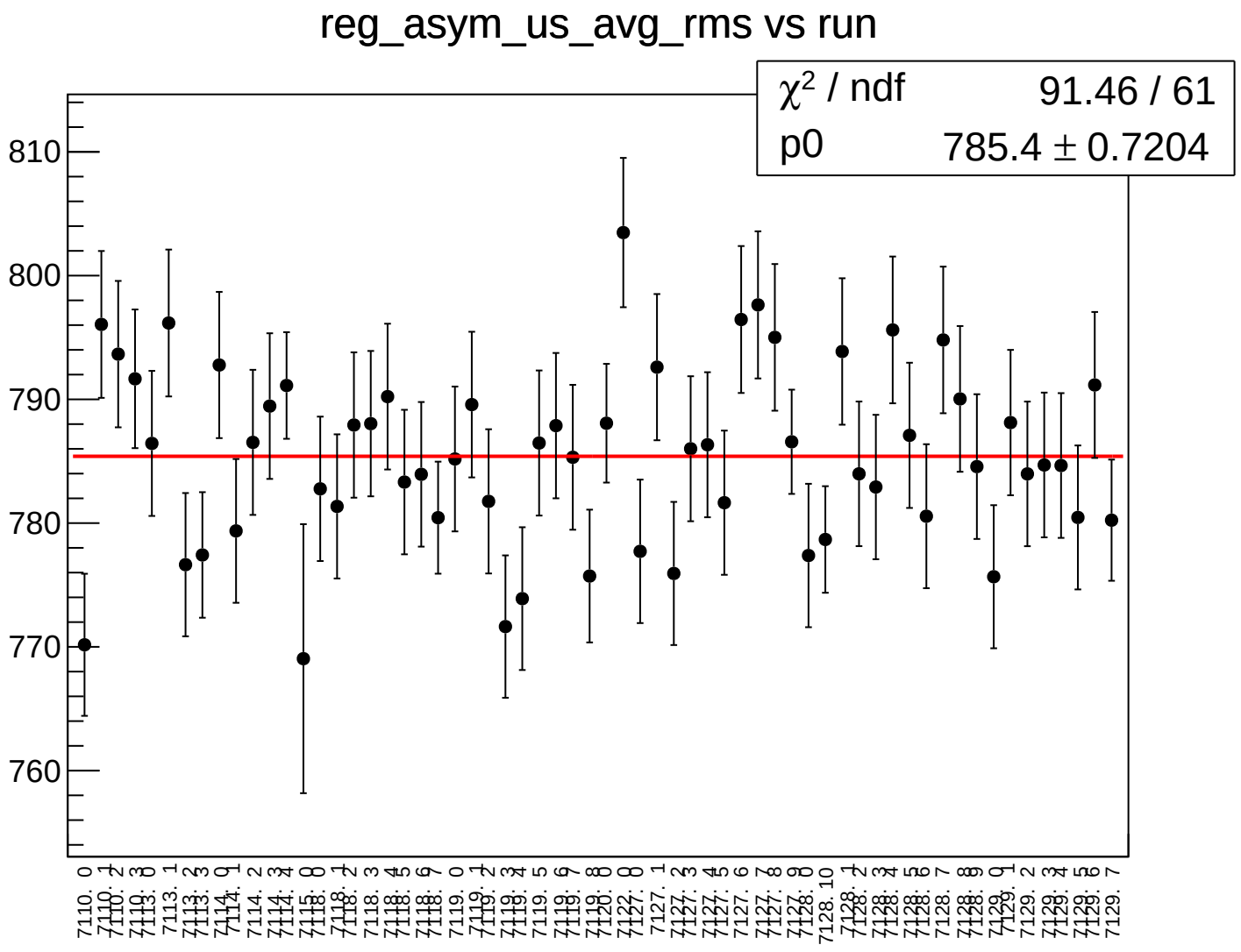
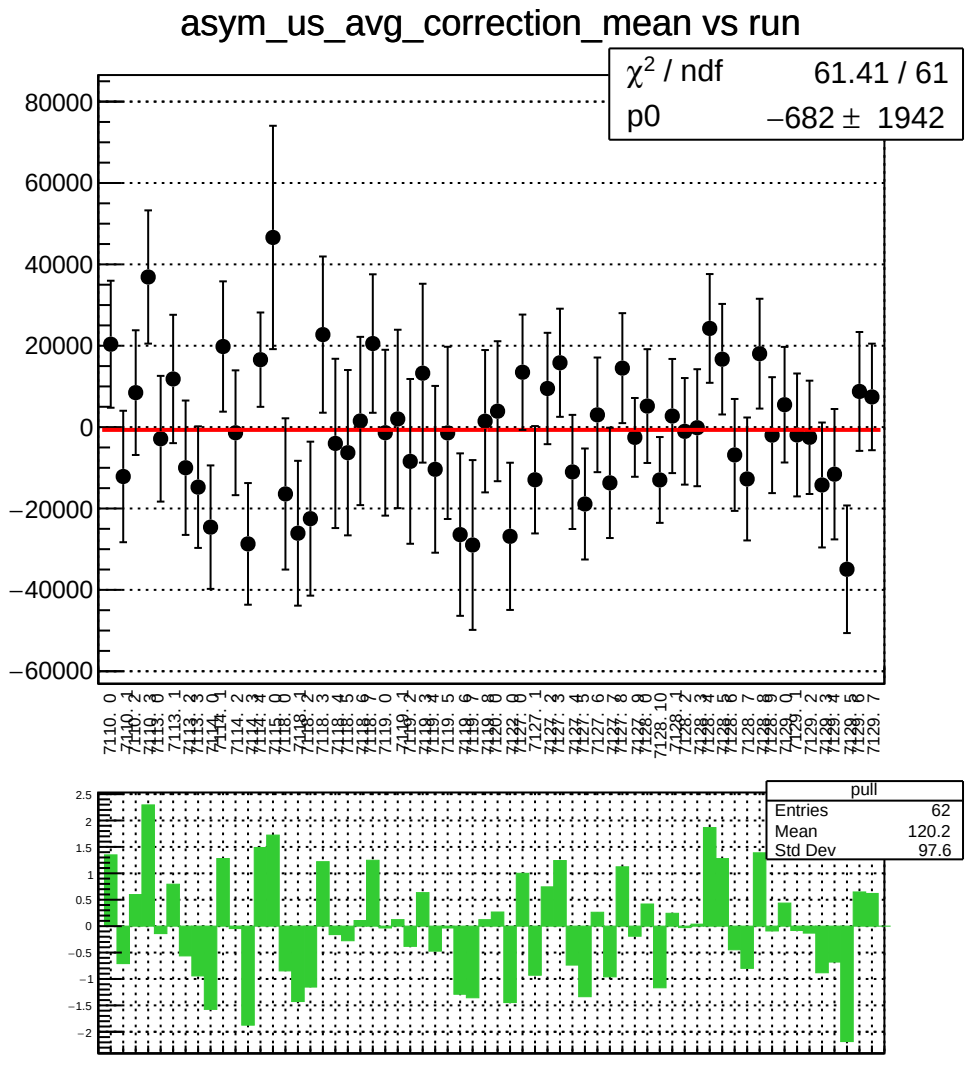
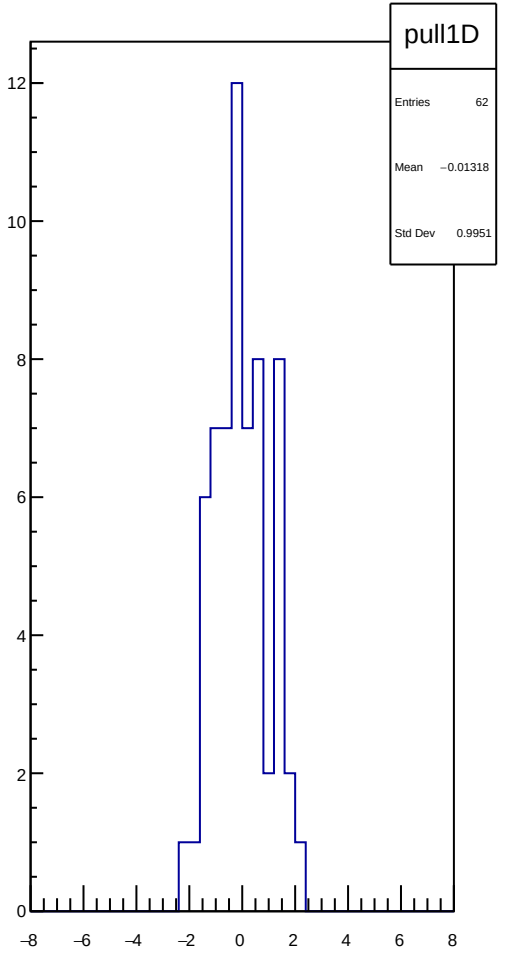
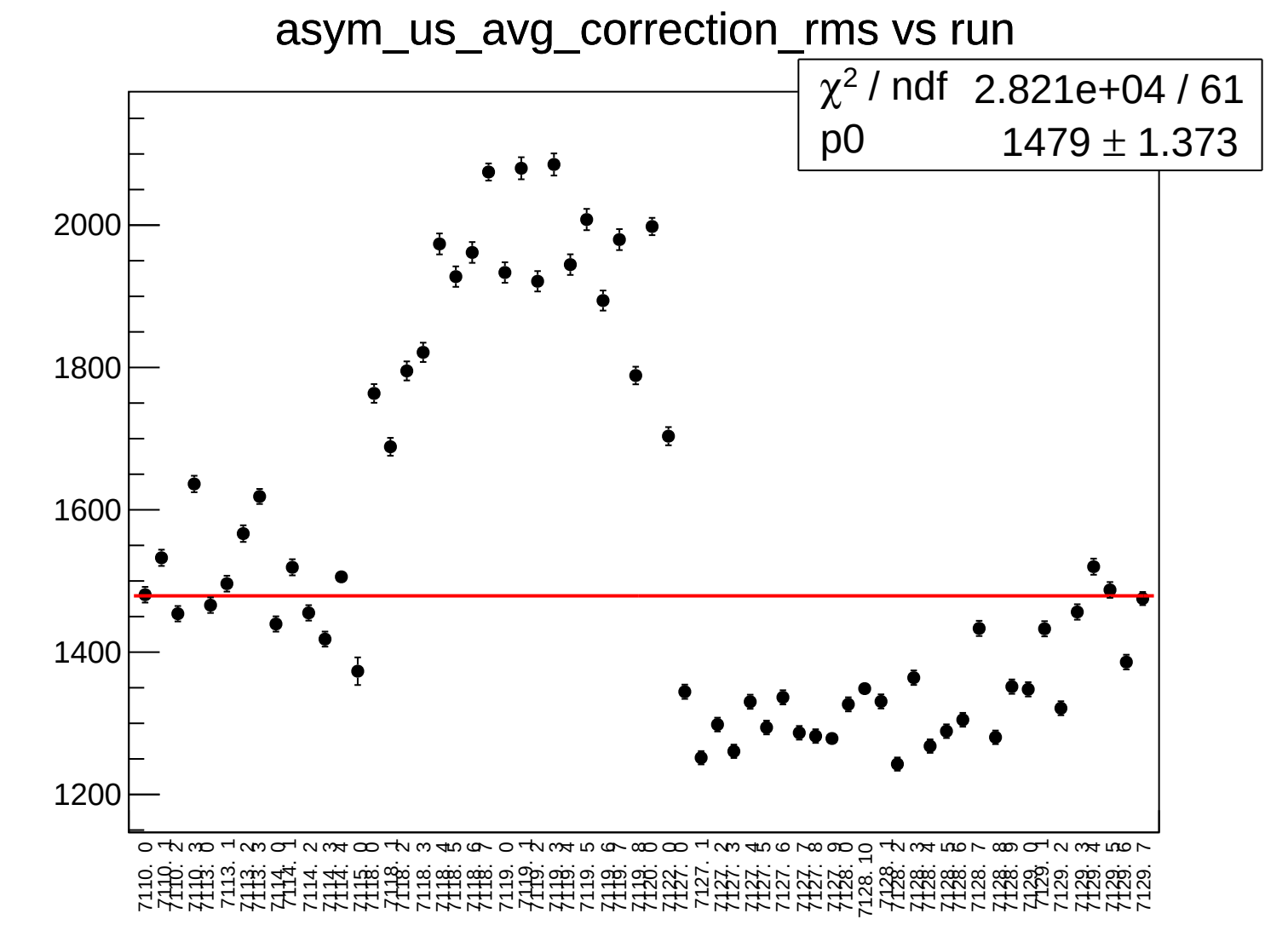

reg_asym_us_avg_mean vs run
χ² / ndf 47.32 / 61
p0 2093 ± 1019
pull
Entries 62
Mean −70.17
Std Dev 101.1

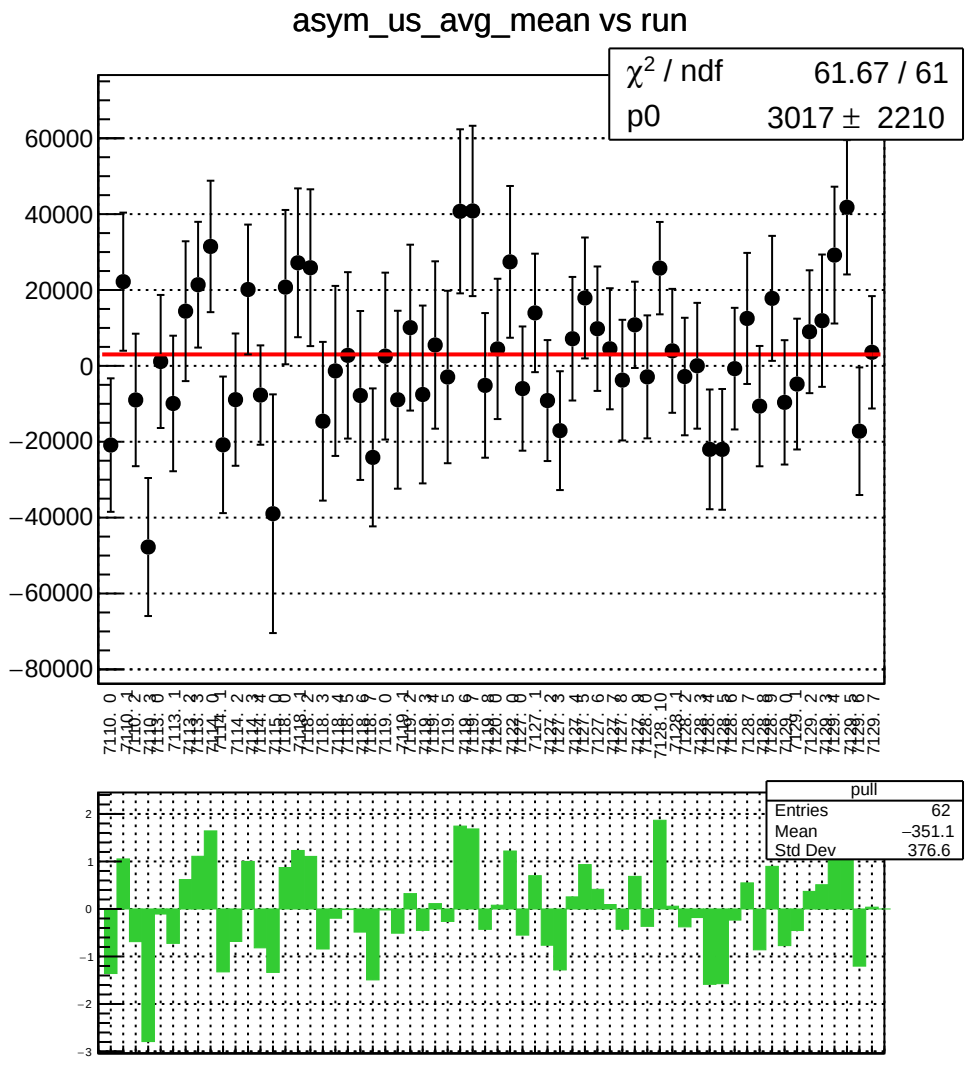

pull1D
Entries 62
Mean −0.02262
Std Dev 0.8733

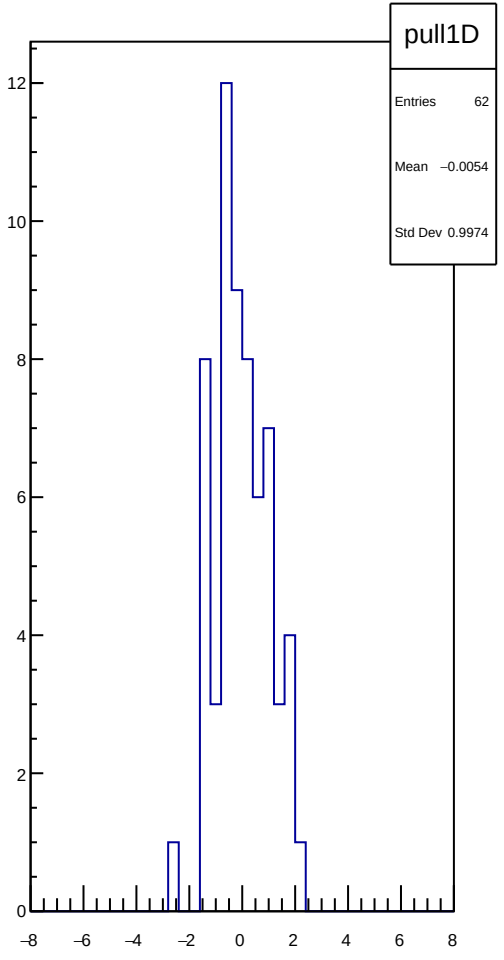

reg_asym_us_avg_rms vs run
χ^2 / ndf 91.46 / 61
p0 785.4 ± 0.7204
810
800
790
780
770
760
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 1
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

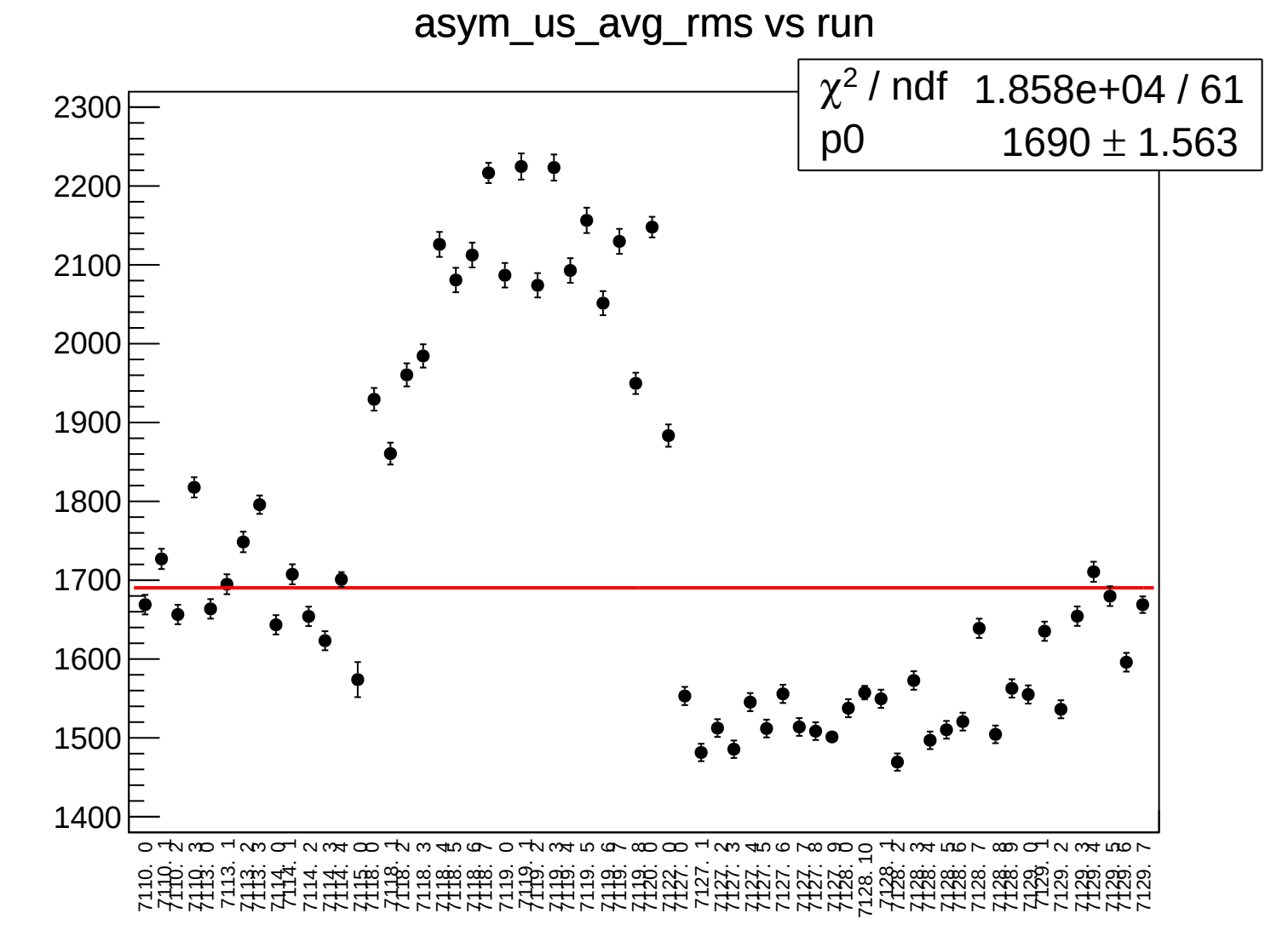

asym_us_avg_correction_mean vs run
χ² / ndf 61.41 / 61
p0 −682 ± 1942
pull
Entries 62
Mean 120.2
Std Dev 97.6

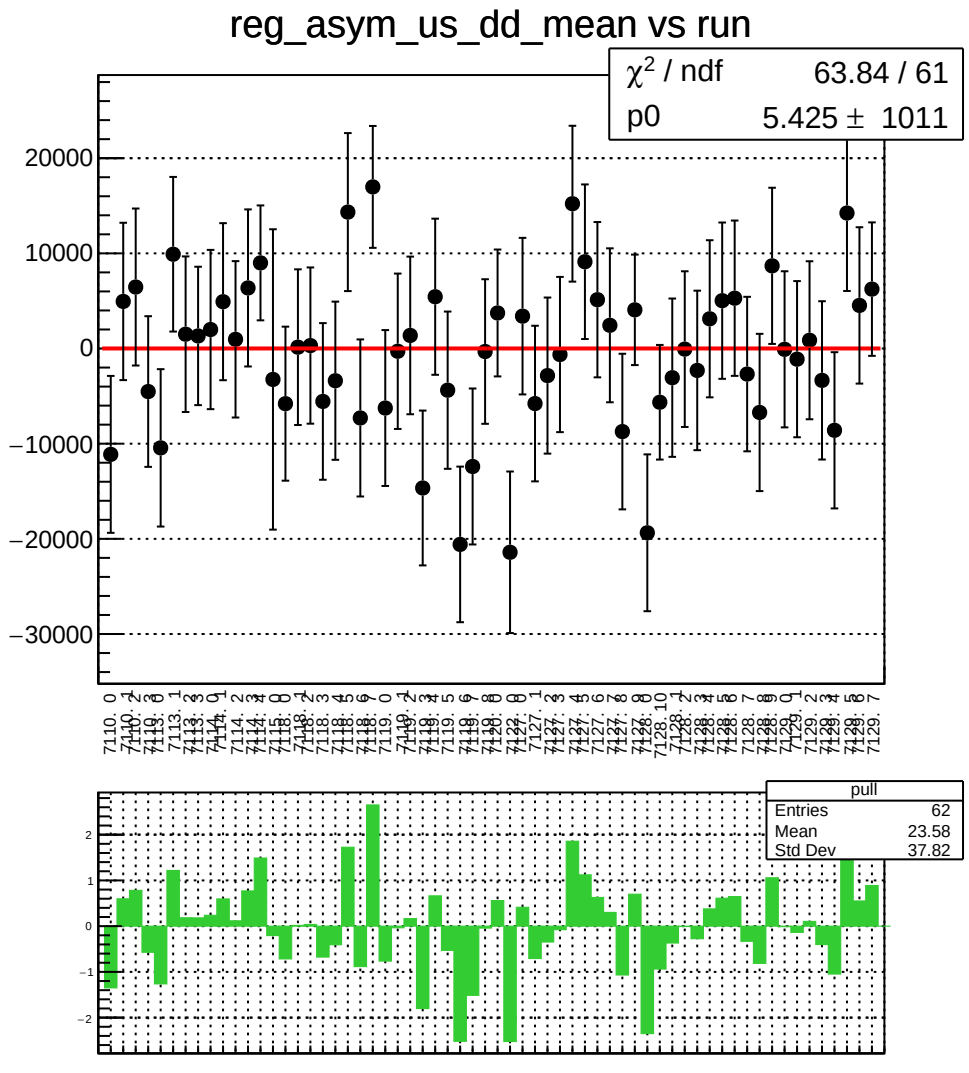

pull1D
Entries 62
Mean −0.01318
Std Dev 0.9951

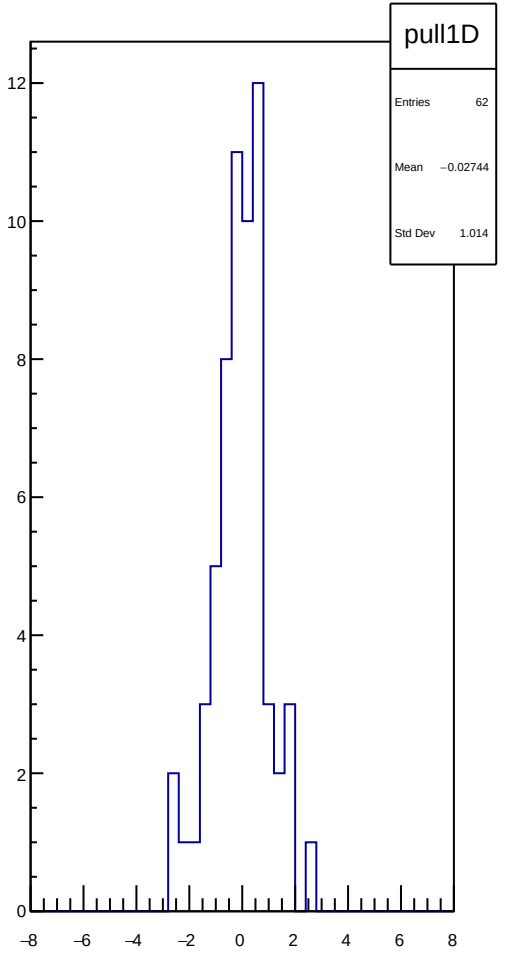

asym_us_avg_correction_rms vs run
χ² / ndf 2.821e+04 / 61
p0 1479 ± 1.373
2000
1800
1600
1400
1200
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

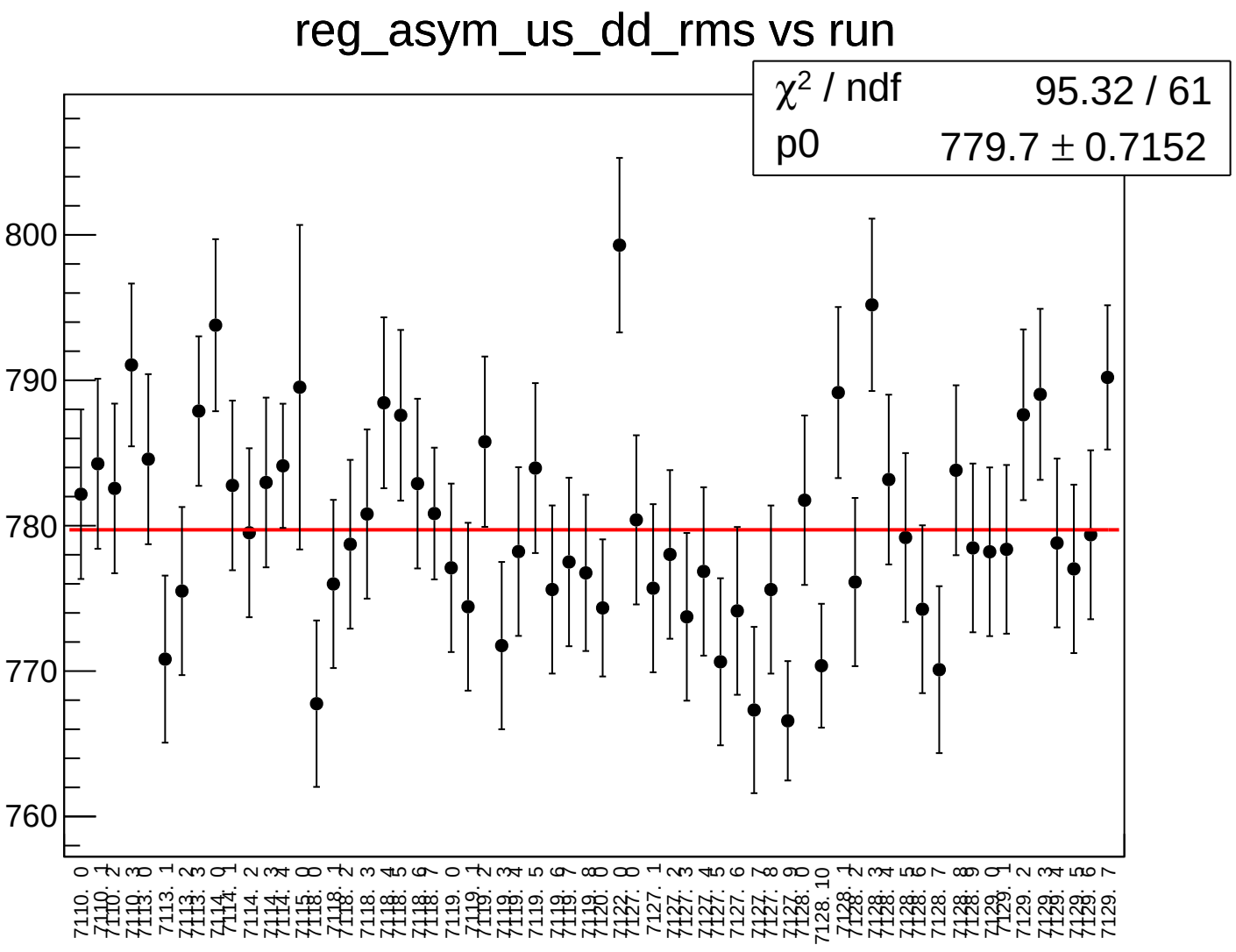

asym_us_avg_mean vs run
χ² / ndf 61.67 / 61
p0 3017 ± 2210
pull
Entries 62
Mean −351.1
Std Dev 376.6

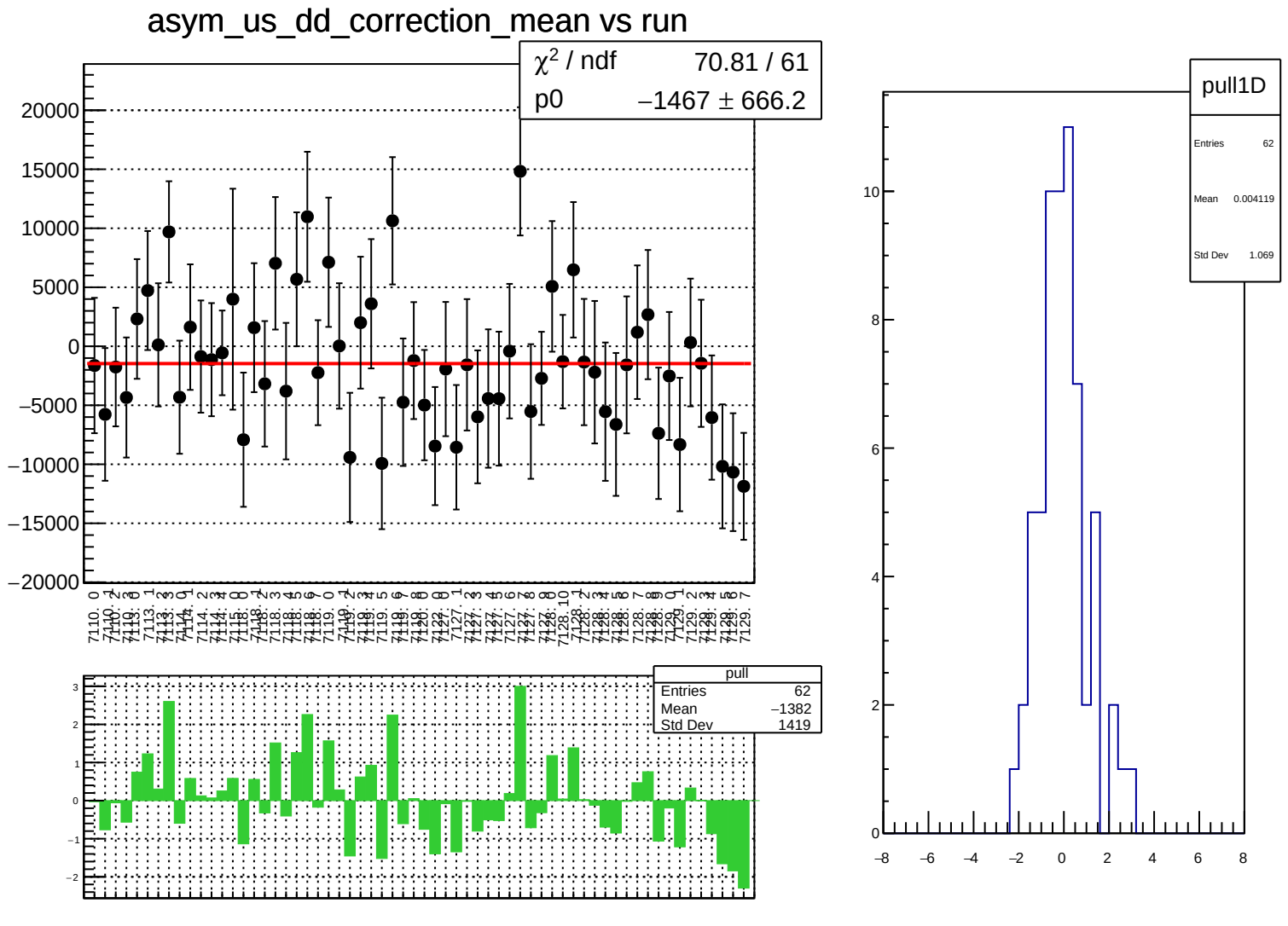

pull1D
Entries 62
Mean −0.0054
Std Dev 0.9974

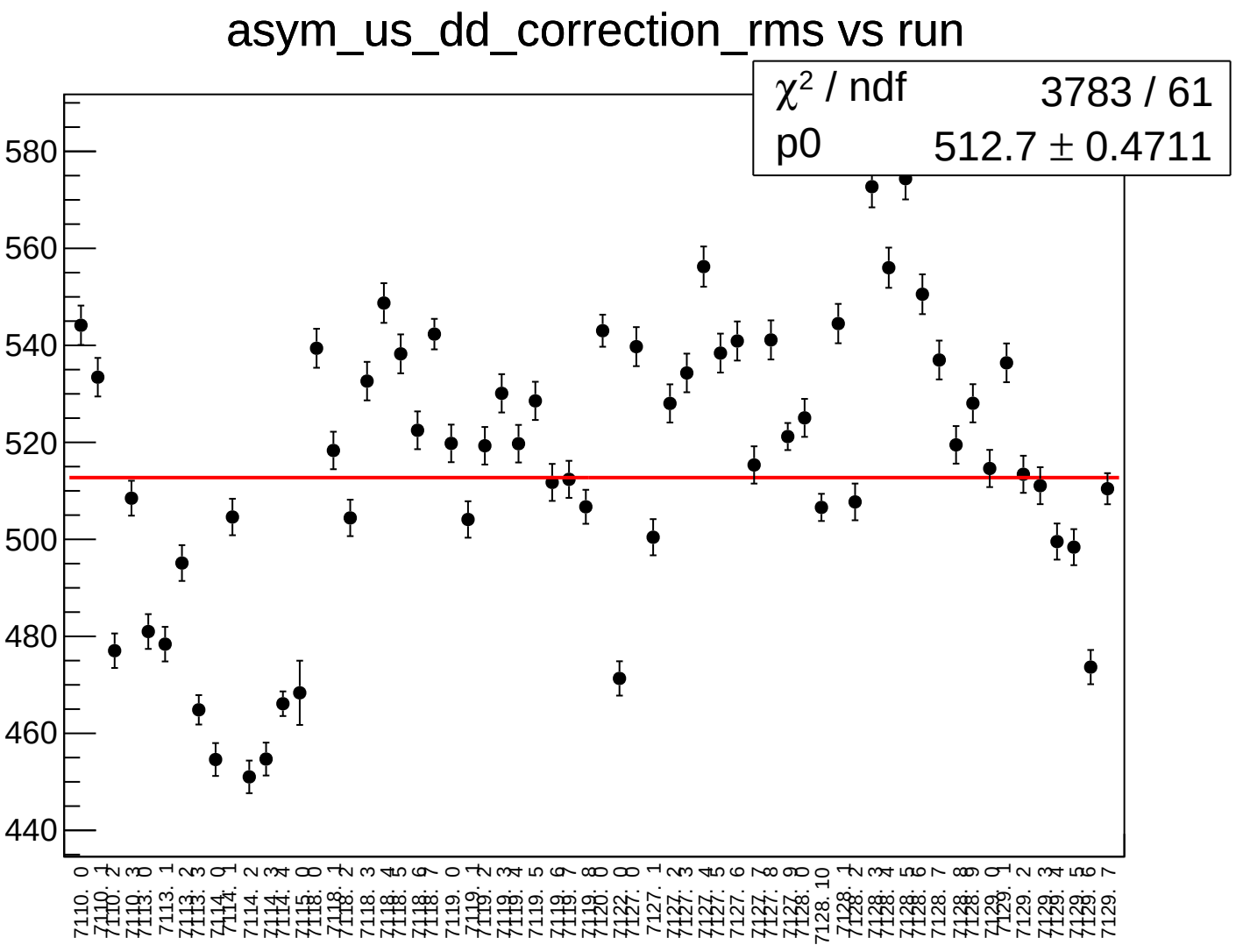

asym_us_avg_rms vs run
χ² / ndf 1.858e+04 / 61
p0 1690 ± 1.563
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

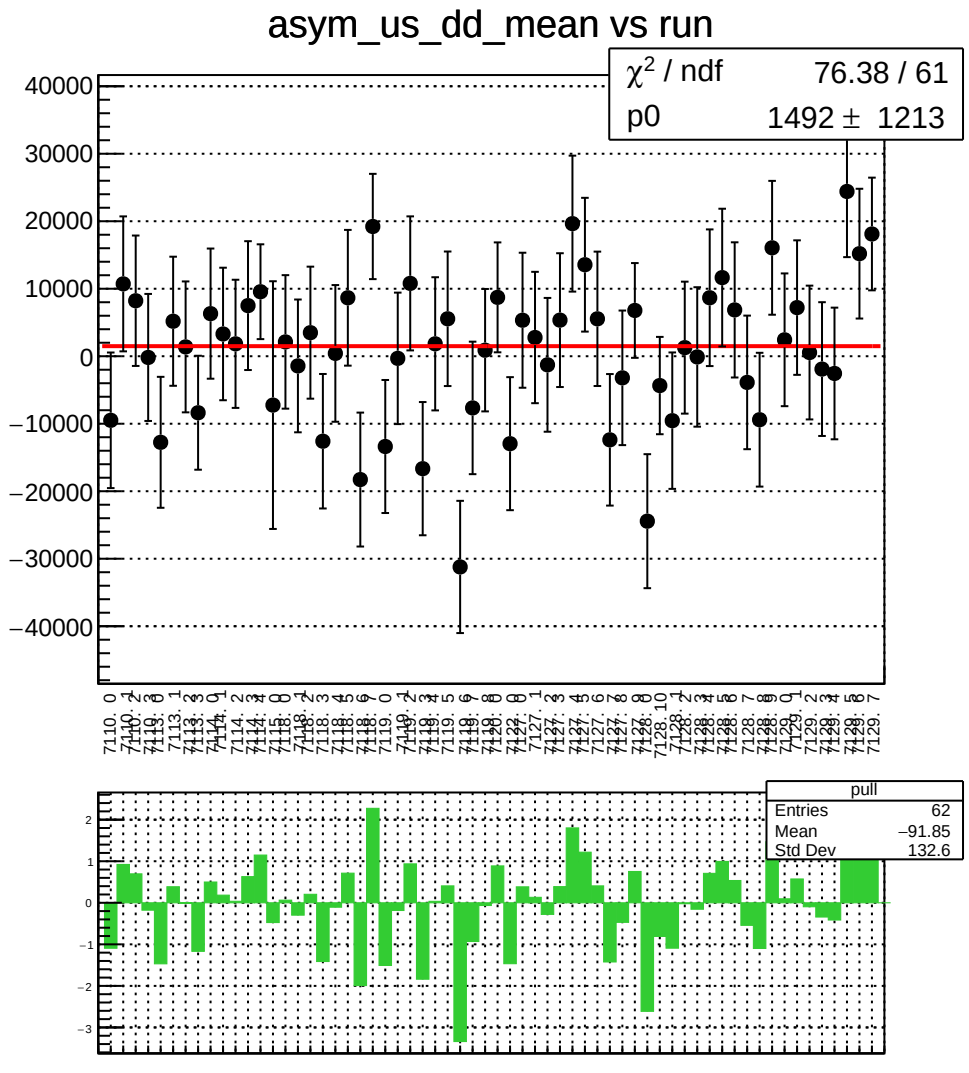

reg_asym_us_dd_mean vs run
χ² / ndf 63.84 / 61
p0 5.425 ± 1011
pull
Entries 62
Mean 23.58
Std Dev 37.82

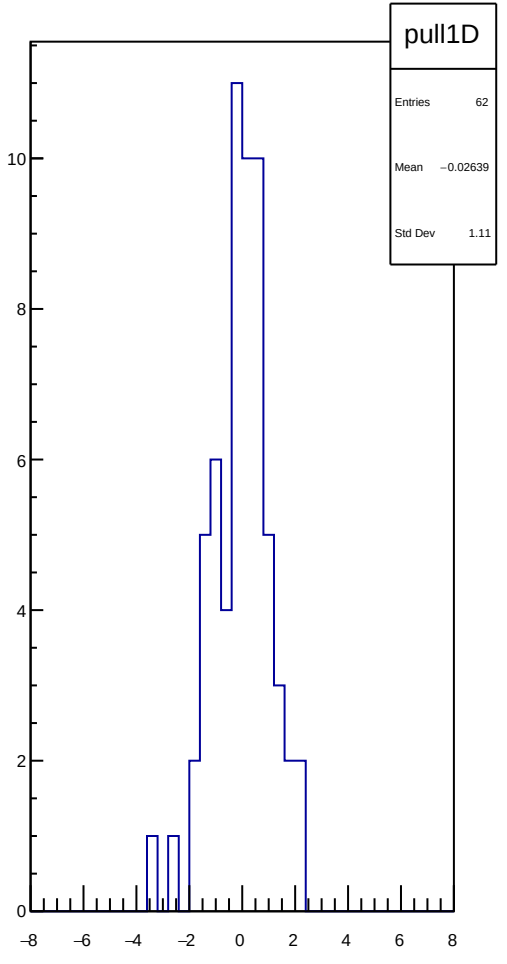

pull1D
Entries 62
Mean −0.02744
Std Dev 1.014

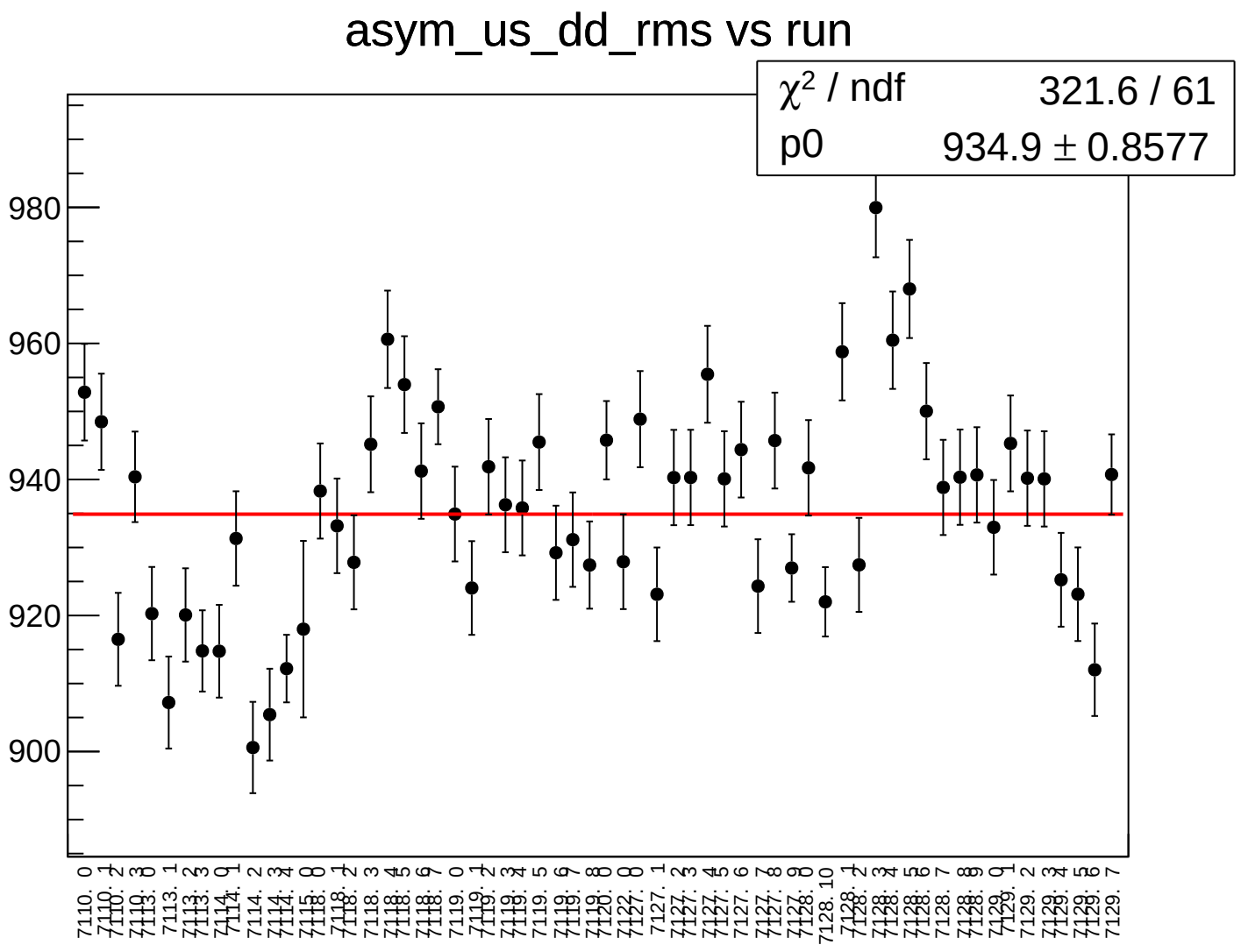

reg_asym_us_dd_rms vs run
χ^2 / ndf 95.32 / 61
p0 779.7 ± 0.7152
800
790
780
770
760

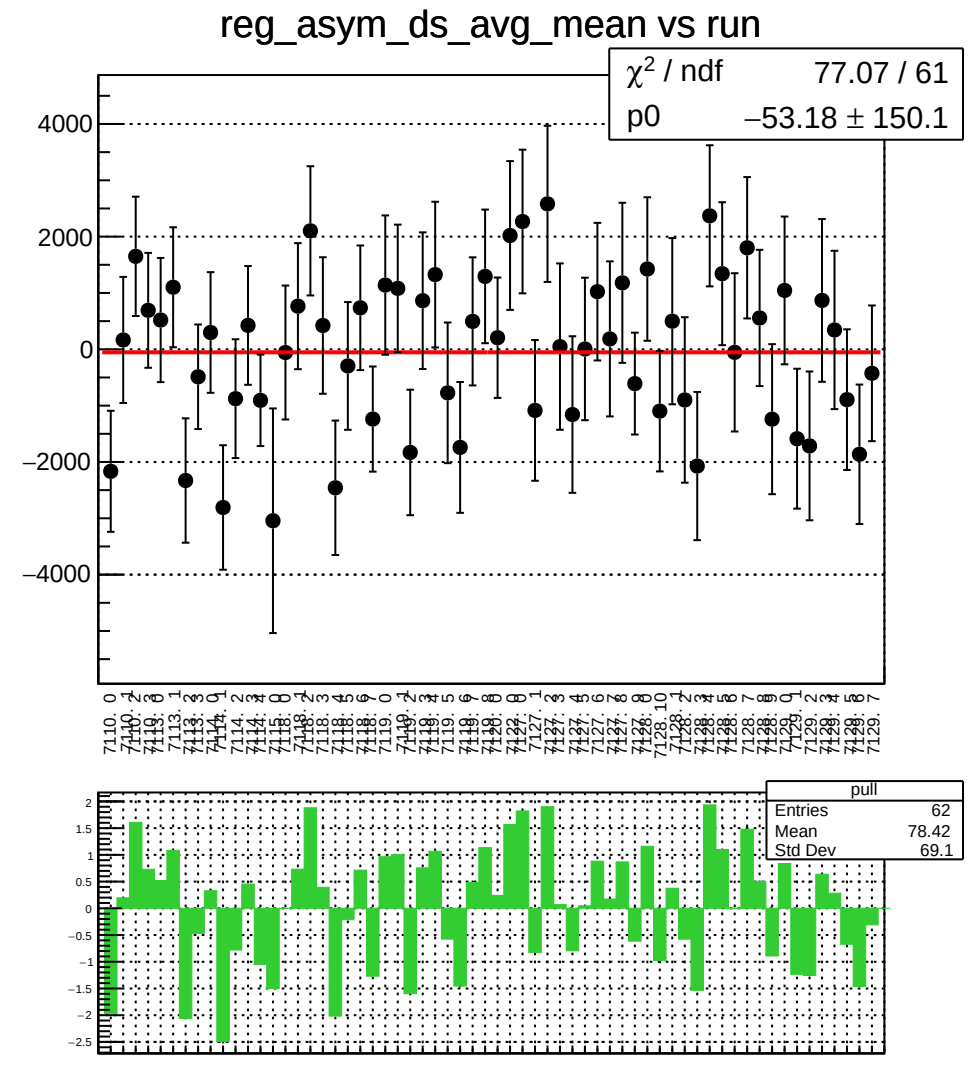

asym_us_dd_correction_mean vs run
χ^2 / ndf 70.81 / 61
p0 −1467 ± 666.2
pull
Entries 62
Mean −1382
Std Dev 1419
pull1D
Entries 62
Mean 0.004119
Std Dev 1.069

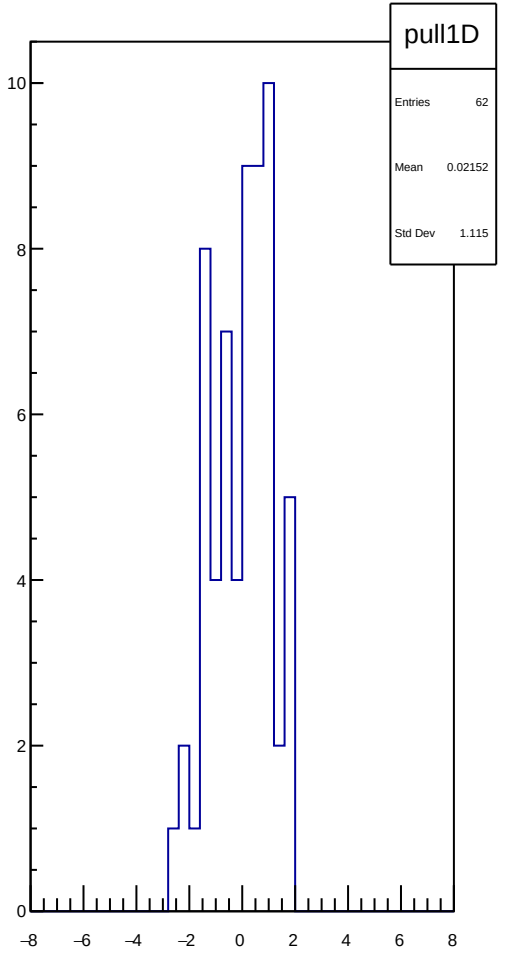

asym_us_dd_correction_rms vs run
χ² / ndf 3783 / 61
p0 512.7 ± 0.4711
580
560
540
520
500
480
460
440
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

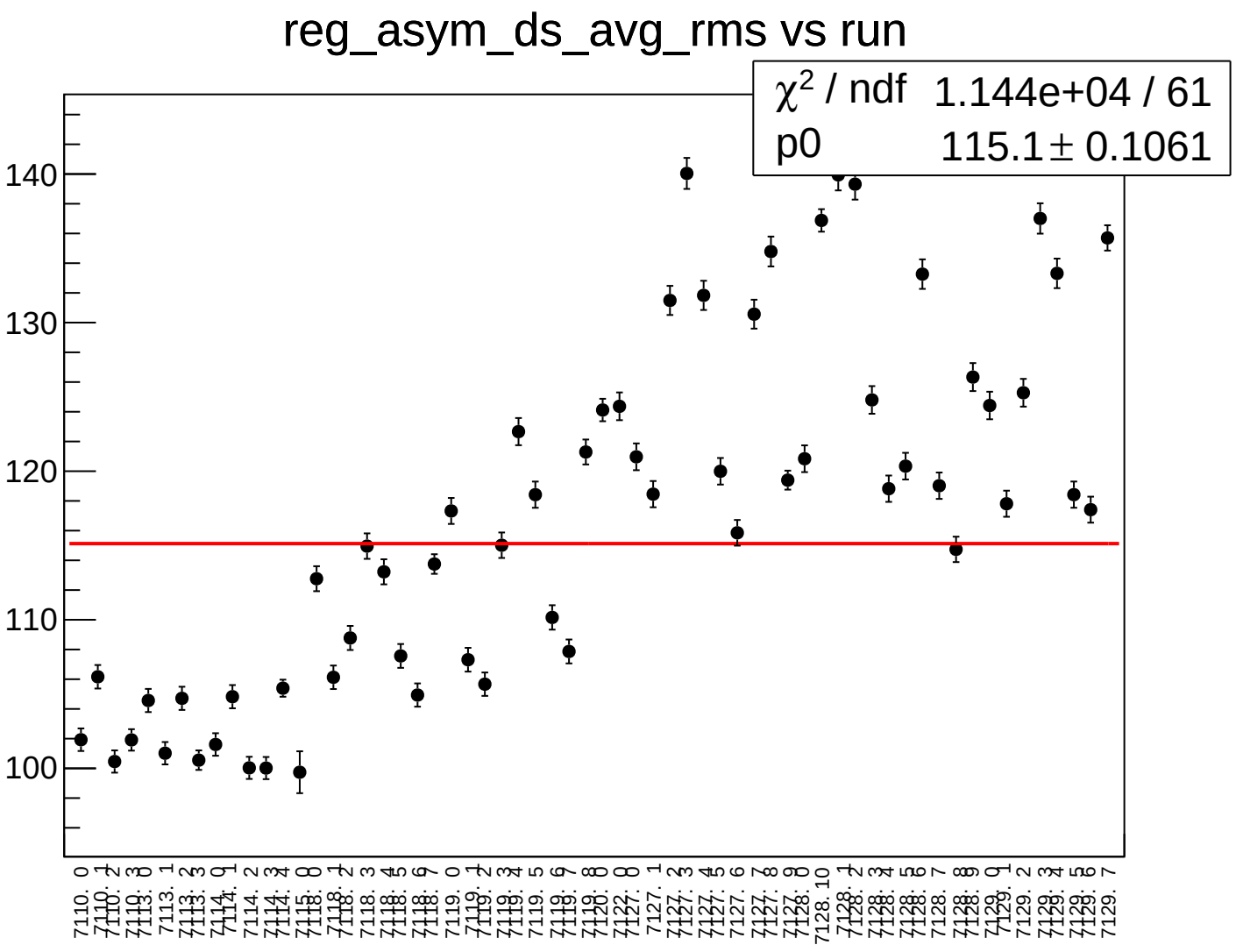

asym_us_dd_mean vs run
χ² / ndf 76.38 / 61
p0 1492 ± 1213
pull
Entries 62
Mean −91.85
Std Dev 132.6

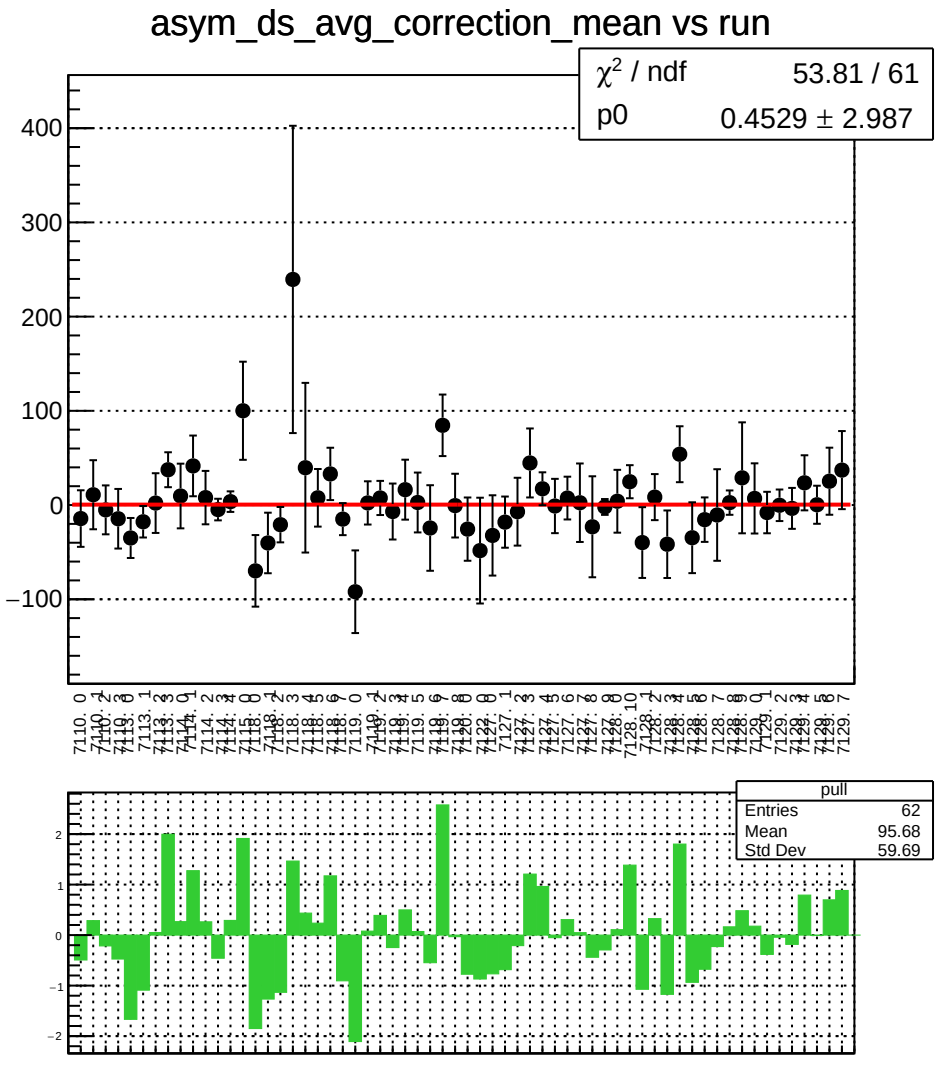

pull1D
Entries 62
Mean −0.02639
Std Dev 1.11

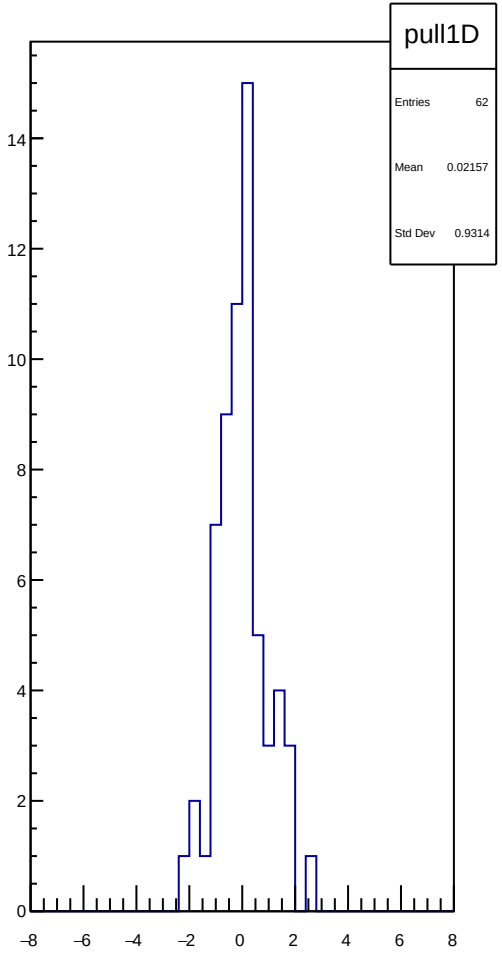

asym_us_dd_rms vs run
χ² / ndf 321.6 / 61
p0 934.9 ± 0.8577
980
960
940
920
900
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

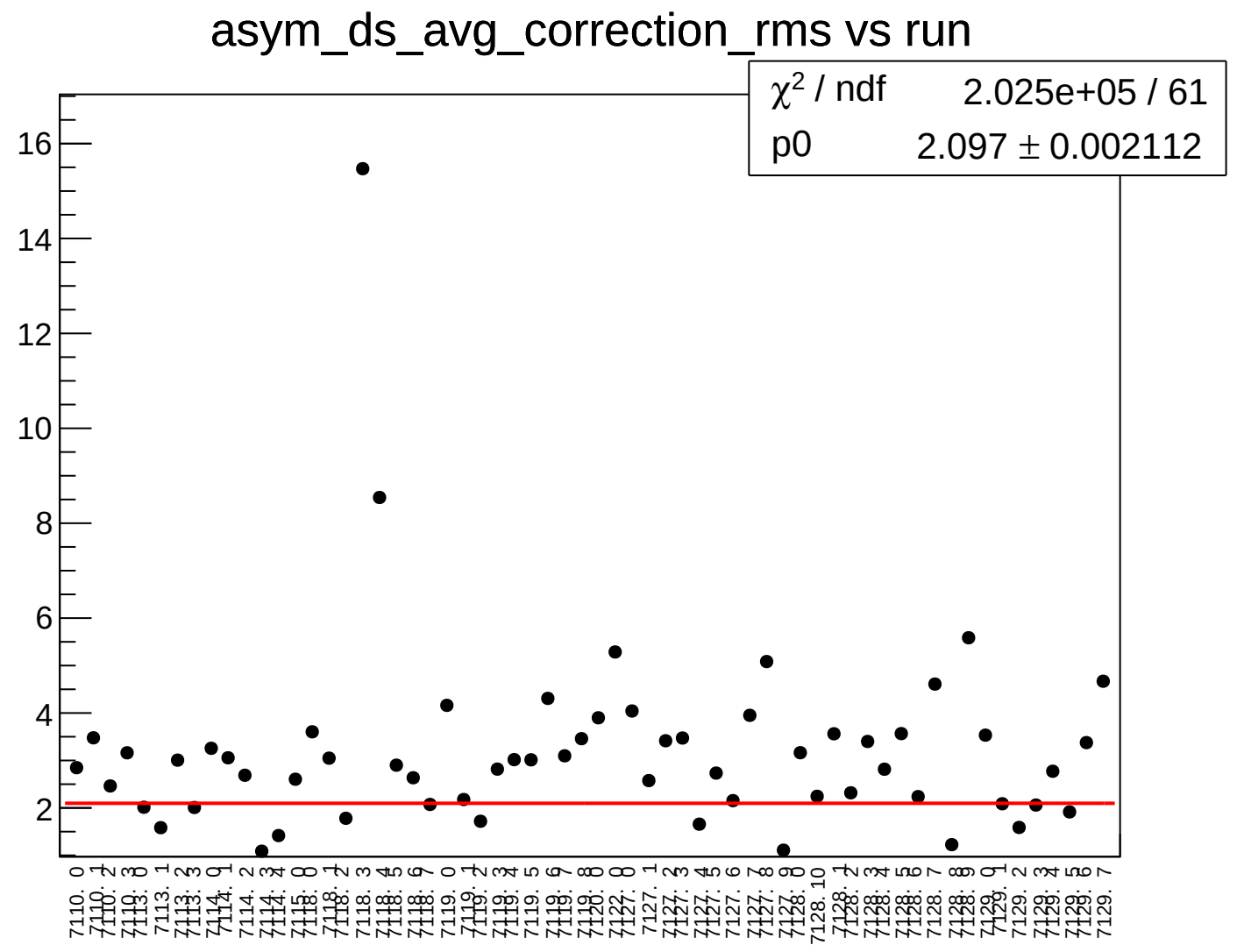

reg_asym_ds_avg_mean vs run
χ² / ndf 77.07 / 61
p0 −53.18 ± 150.1
4000
2000
0
−2000
−4000
pull
Entries 62
Mean 78.42
Std Dev 69.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

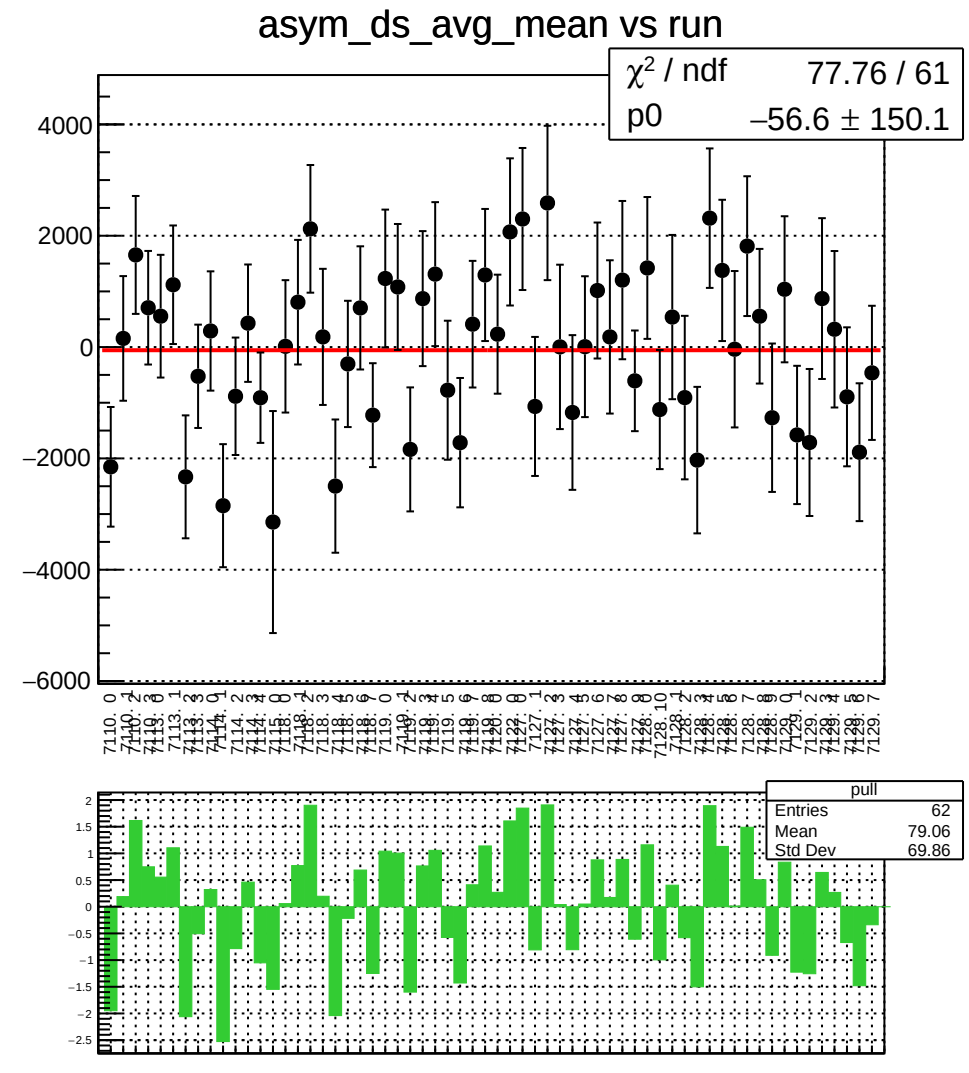

pull1D
Entries 62
Mean 0.02152
Std Dev 1.115
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

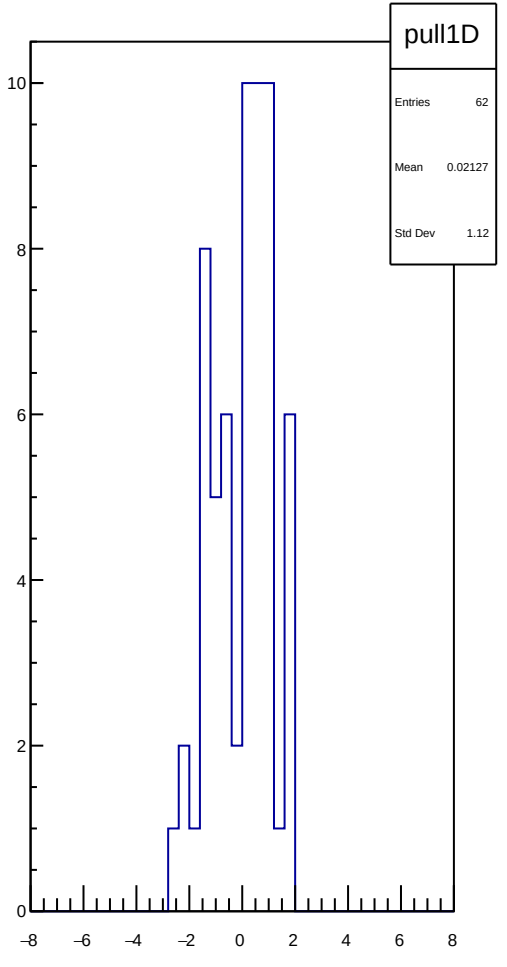

reg_asym_ds_avg_rms vs run
χ² / ndf 1.144e+04 / 61
p0 115.1 ± 0.1061
140
130
120
110
100
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

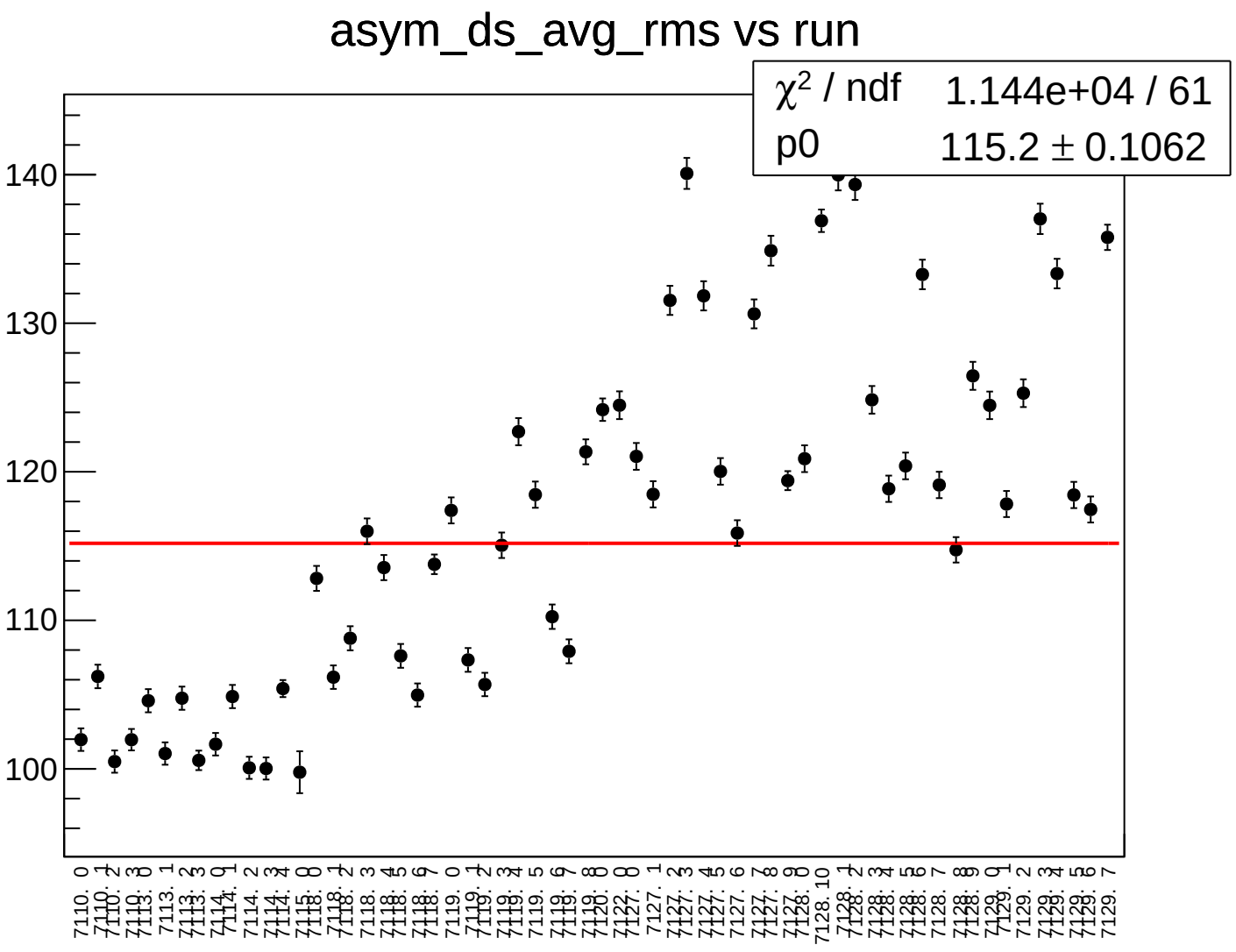

asym_ds_avg_correction_mean vs run
χ² / ndf 53.81 / 61
p0 0.4529 ± 2.987
pull
Entries 62
Mean 95.68
Std Dev 59.69

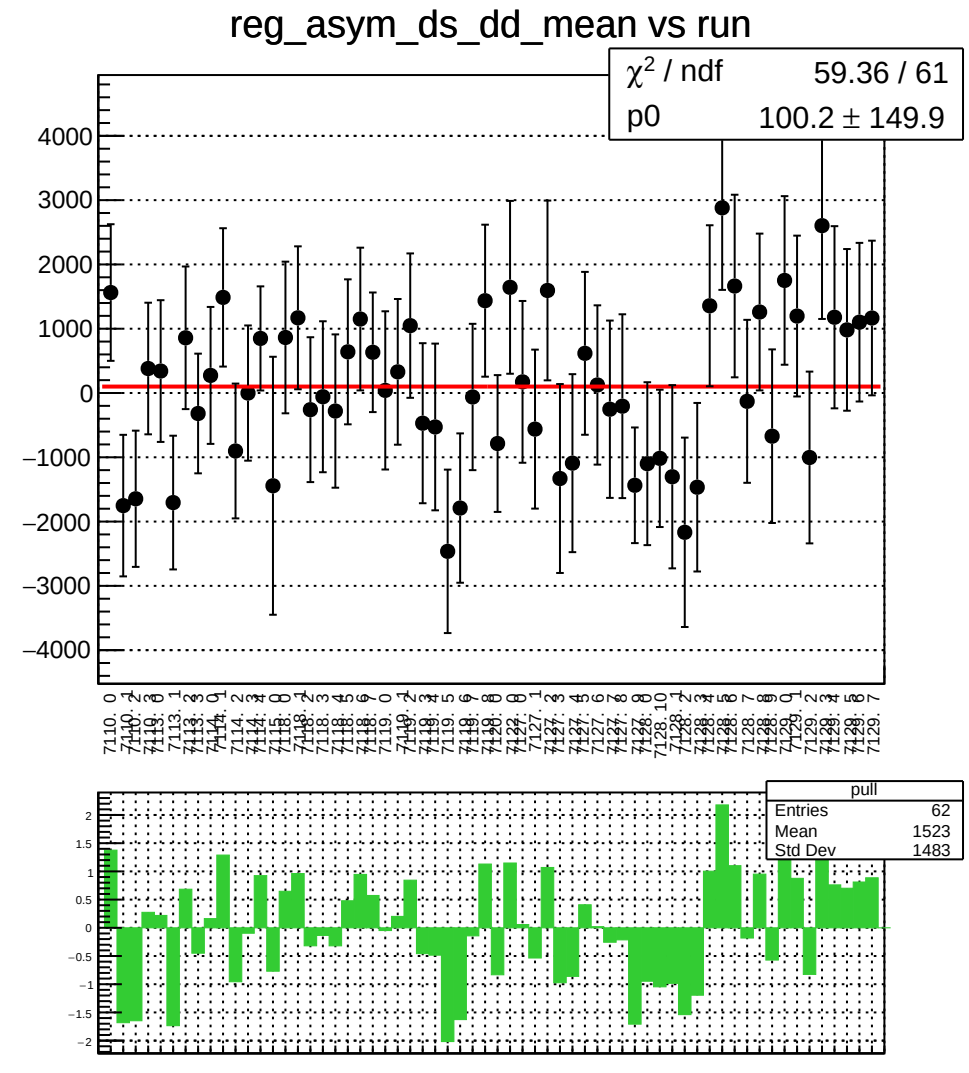

pull1D
Entries 62
Mean 0.02157
Std Dev 0.9314

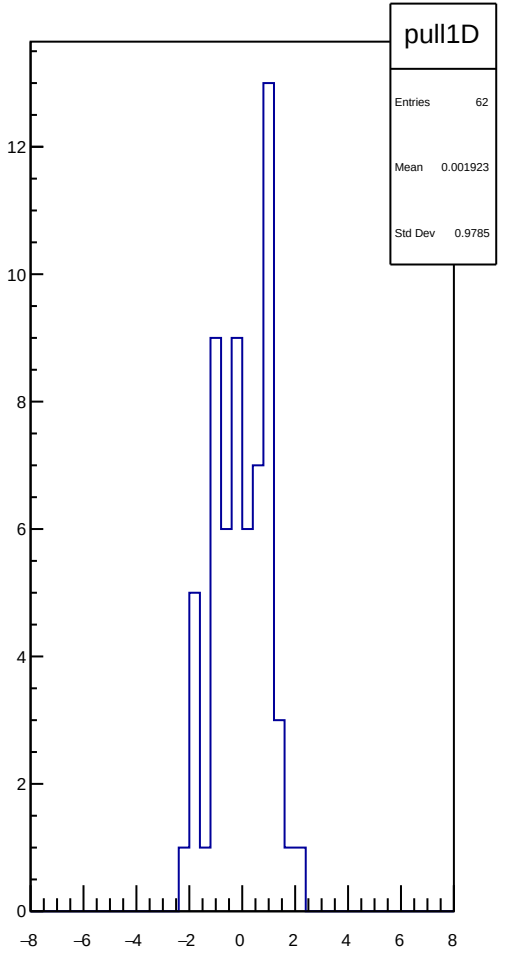

asym_ds_avg_correction_rms vs run
χ² / ndf 2.025e+05 / 61
p0 2.097 ± 0.002112
16
14
12
10
8
6
4
2

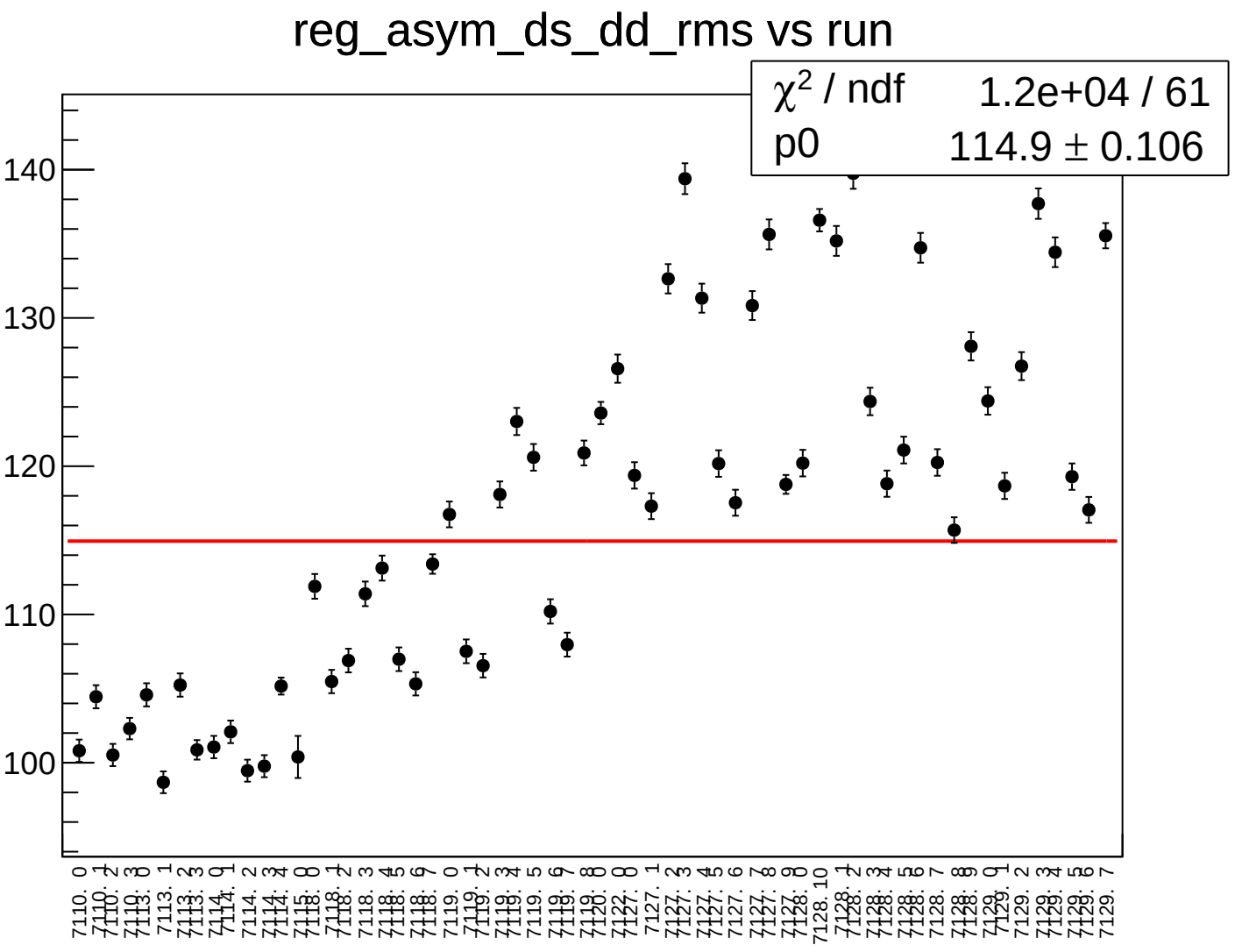

asym_ds_avg_mean vs run
χ² / ndf 77.76 / 61
p0 –56.6 ± 150.1
4000
2000
0
–2000
–4000
–6000
pull
Entries 62
Mean 79.06
Std Dev 69.86
2
1.5
1
0.5
0
–0.5
–1
–1.5
–2
–2.5

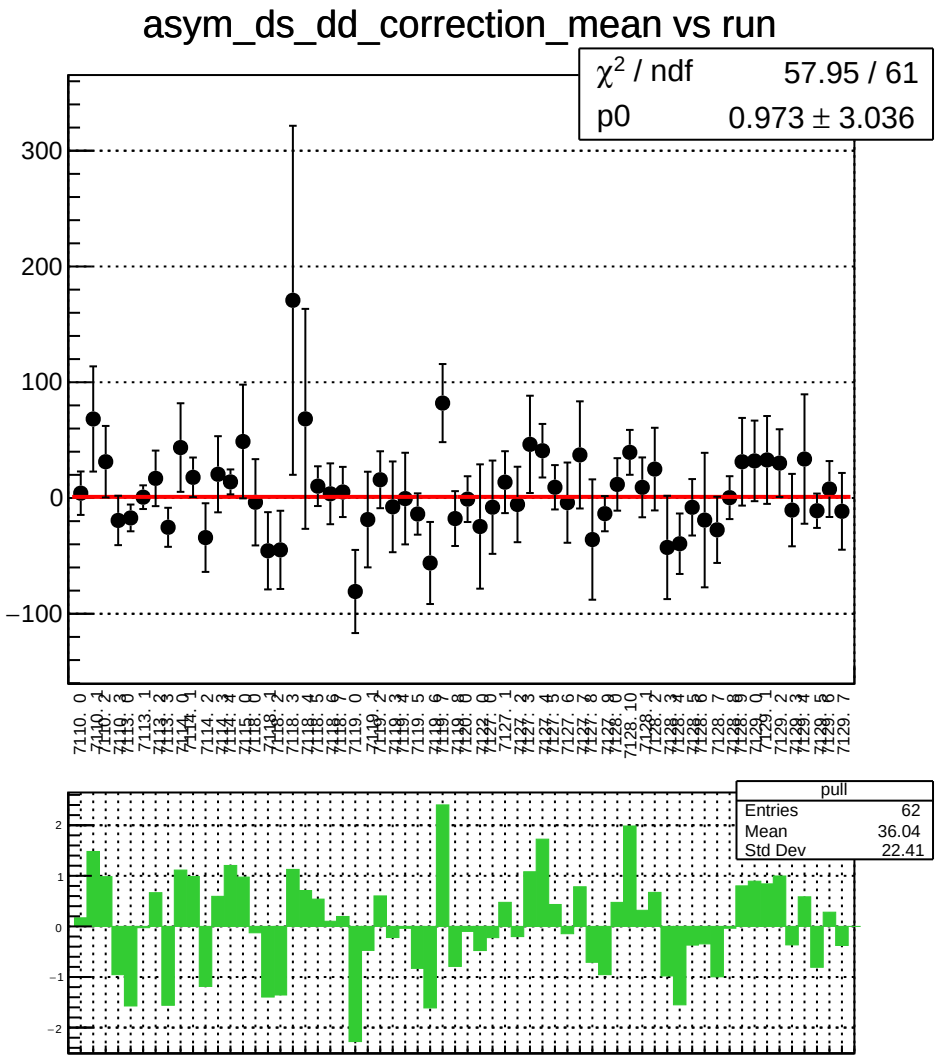

pull1D
Entries 62
Mean 0.02127
Std Dev 1.12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

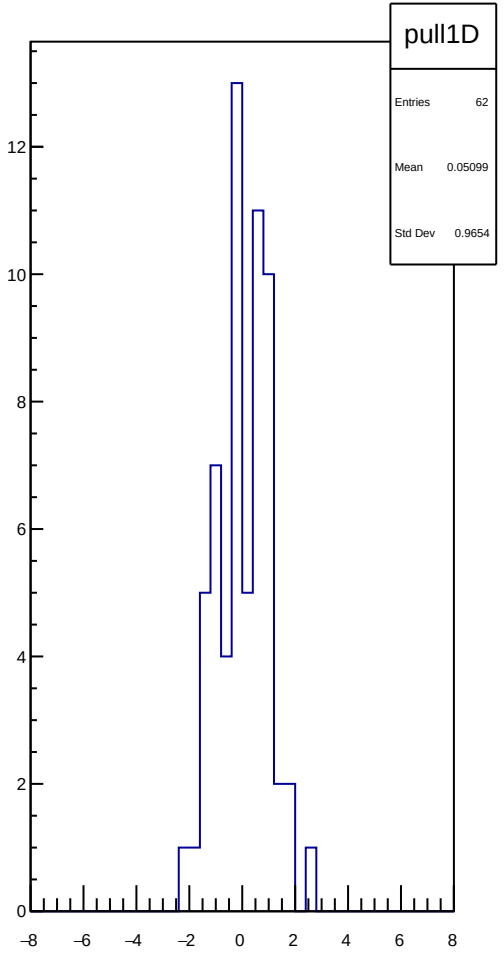

asym_ds_avg_rms vs run
χ² / ndf 1.144e+04 / 61
p0 115.2 ± 0.1062
140
130
120
110
100
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

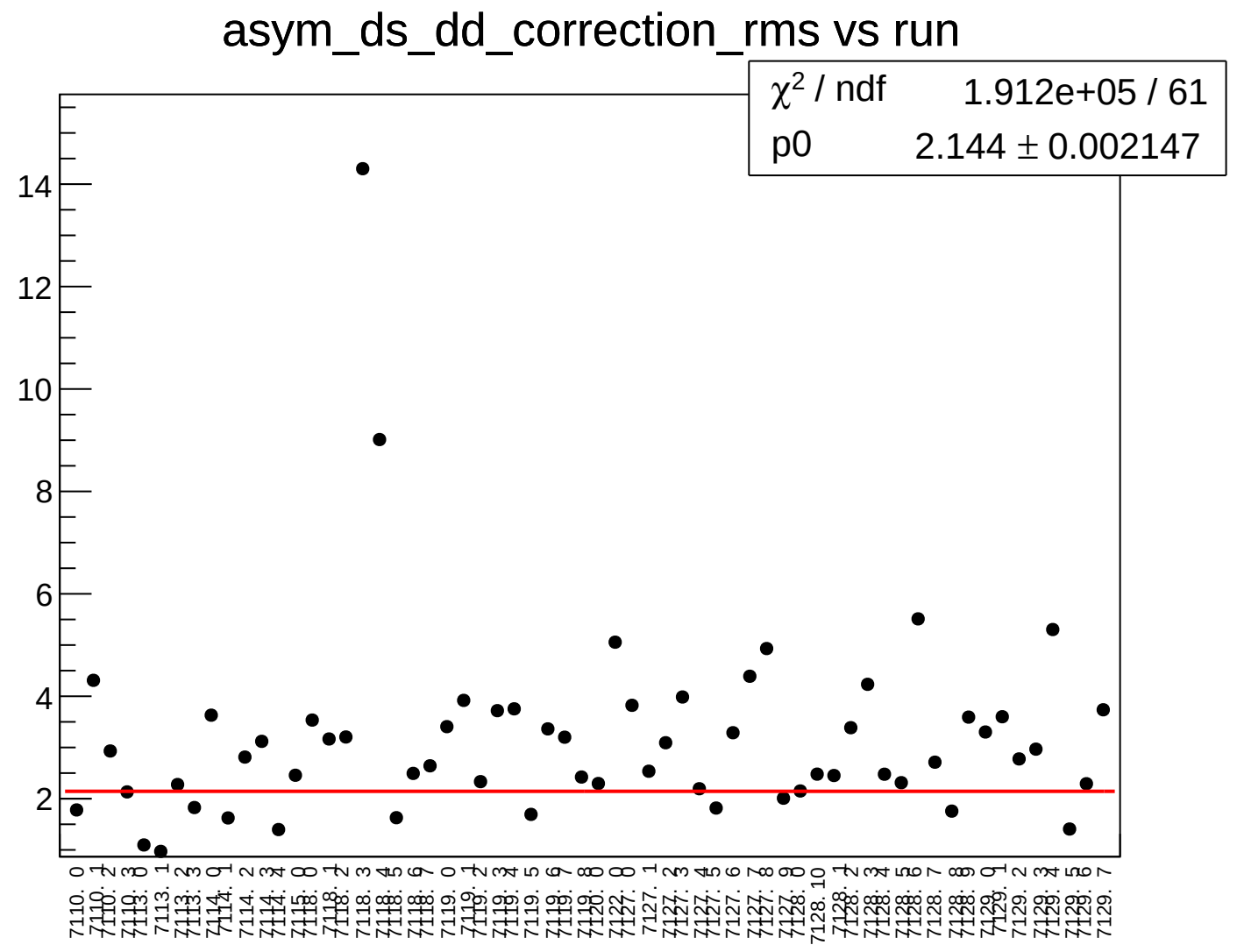

reg_asym_ds_dd_mean vs run
χ^2 / ndf 59.36 / 61
p0 100.2 ± 149.9
pull
Entries 62
Mean 1523
Std Dev 1483

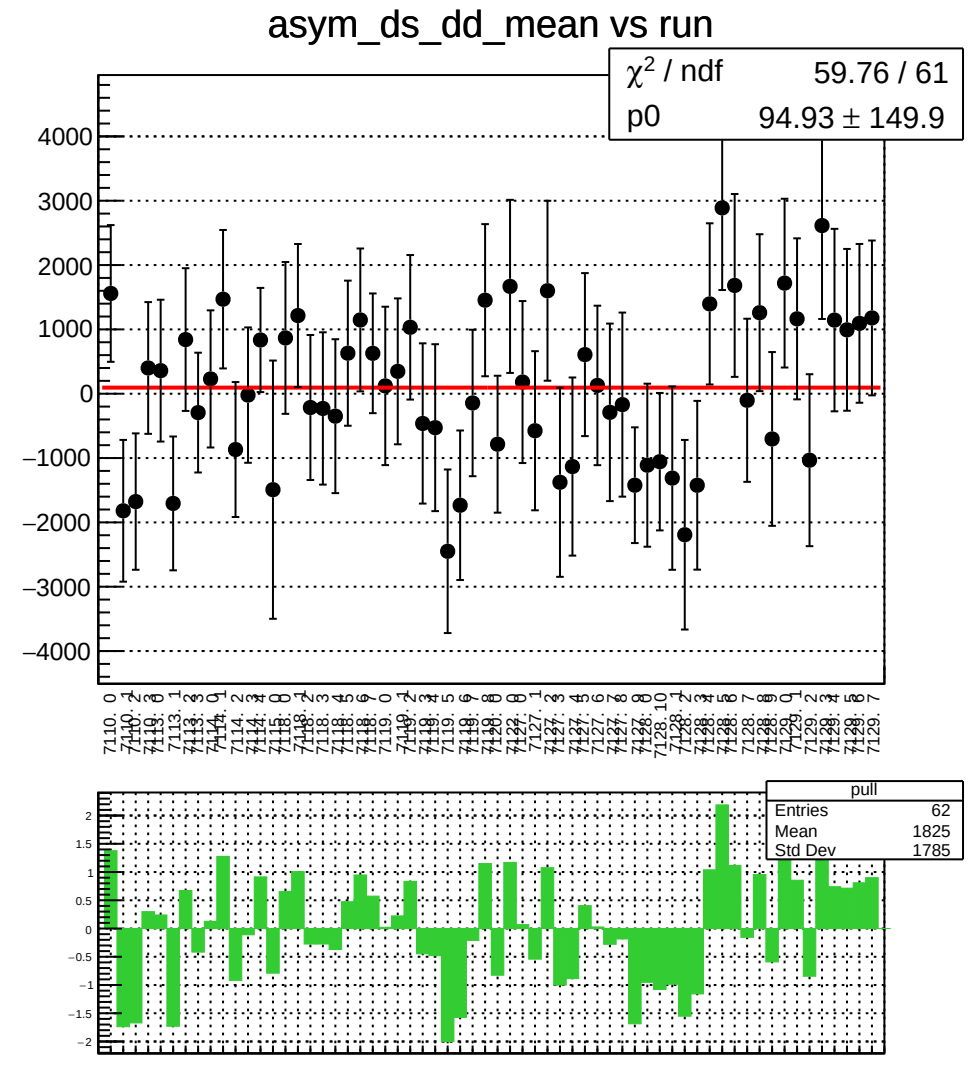

pull1D
Entries 62
Mean 0.001923
Std Dev 0.9785

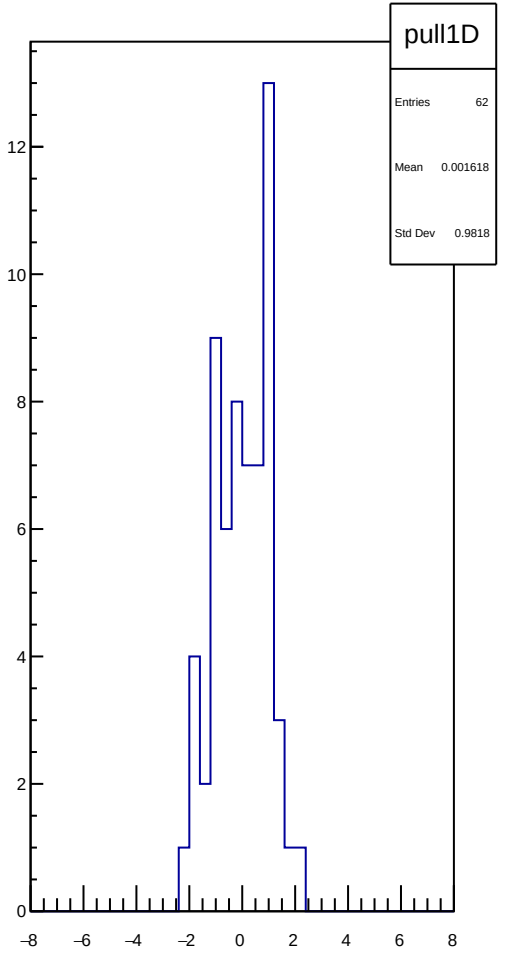

reg_asym_ds_dd_rms vs run
χ² / ndf 1.2e+04 / 61
p0 114.9 ± 0.106
140
130
120
110
100
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

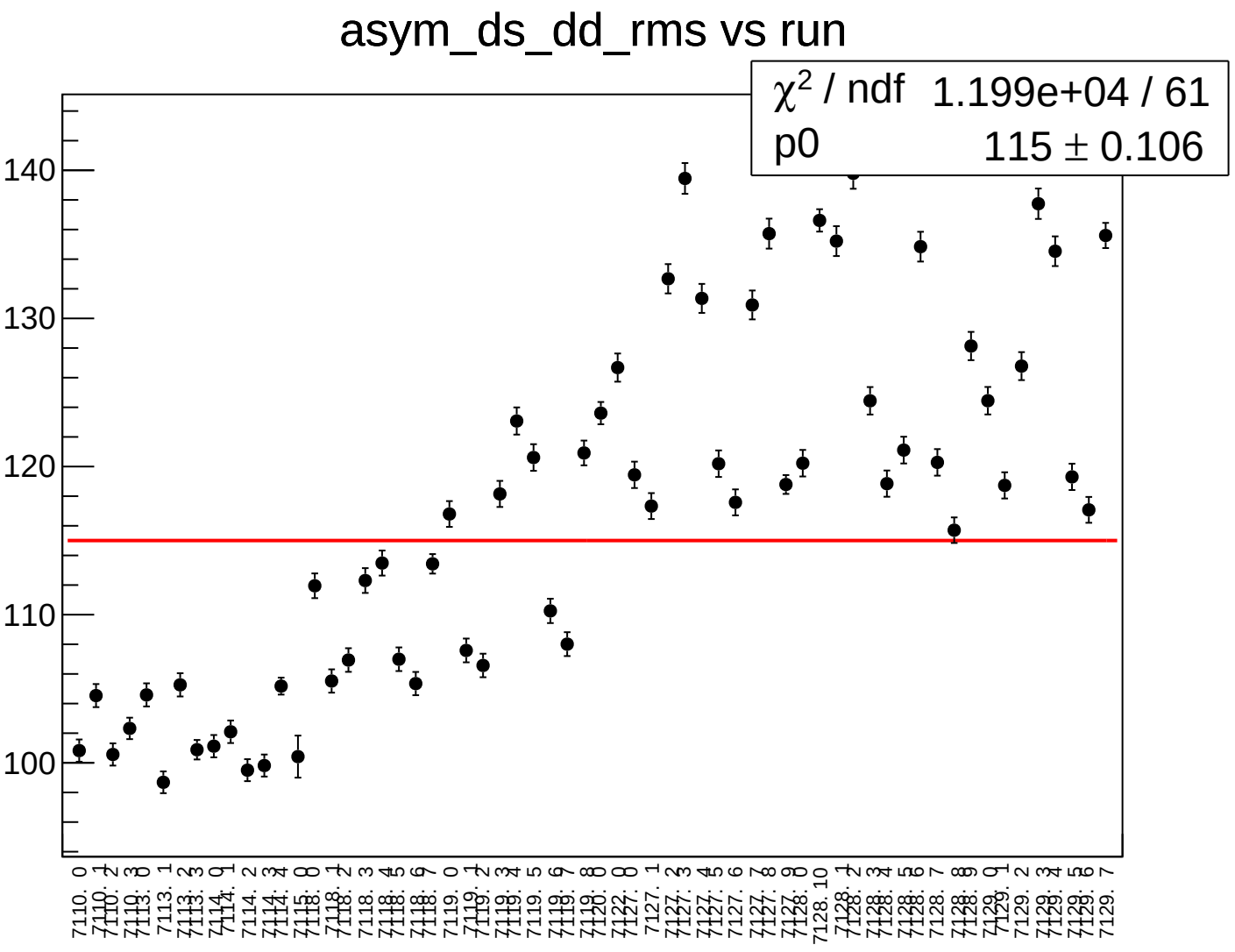

asym_ds_dd_correction_mean vs run
χ² / ndf 57.95 / 61
p0 0.973 ± 3.036
pull
Entries 62
Mean 36.04
Std Dev 22.41

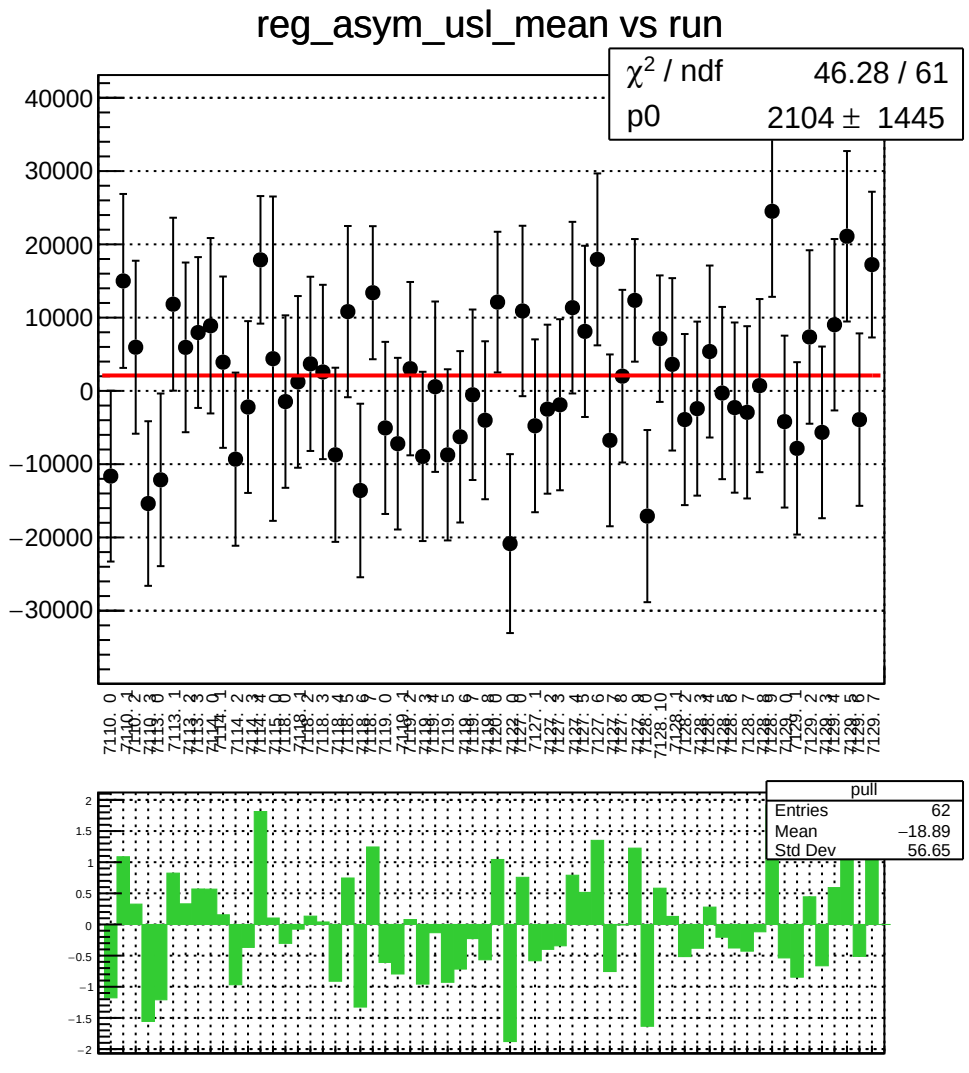

pull1D
Entries 62
Mean 0.05099
Std Dev 0.9654

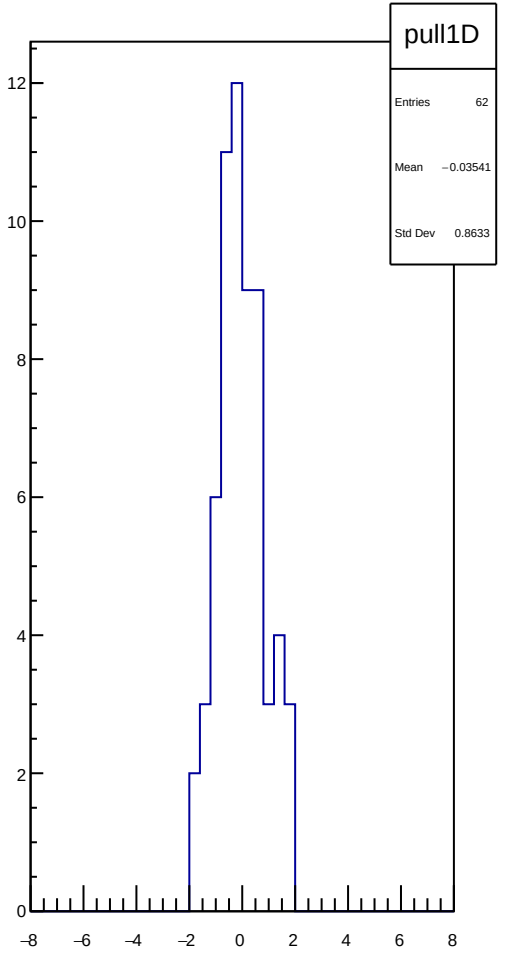

asym_ds_dd_correction_rms vs run
χ² / ndf 1.912e+05 / 61
p0 2.144 ± 0.002147
14
12
10
8
6
4
2
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

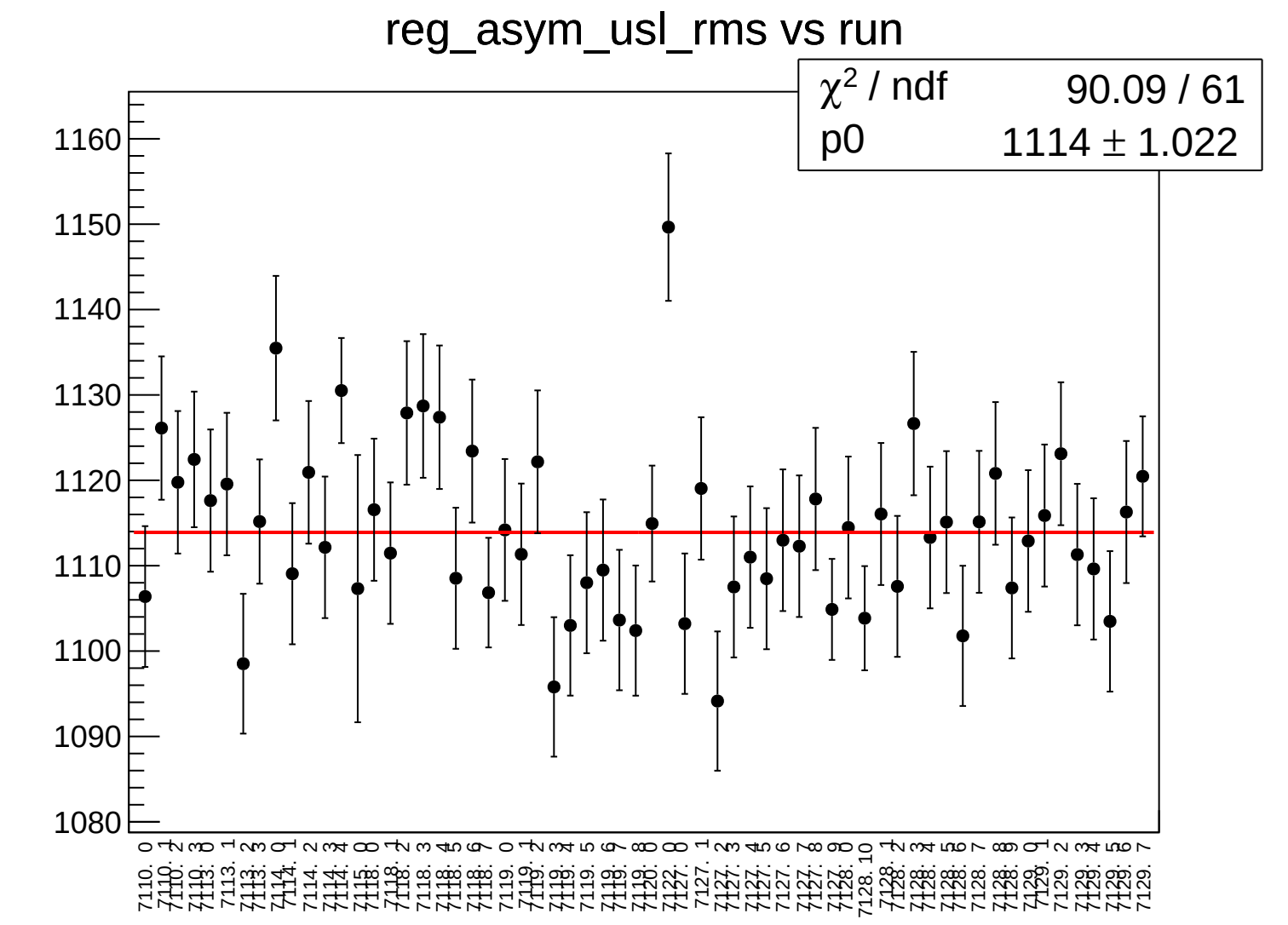

asym_ds_dd_mean vs run
χ^2 / ndf 59.76 / 61
p0 94.93 ± 149.9
pull
Entries 62
Mean 1825
Std Dev 1785

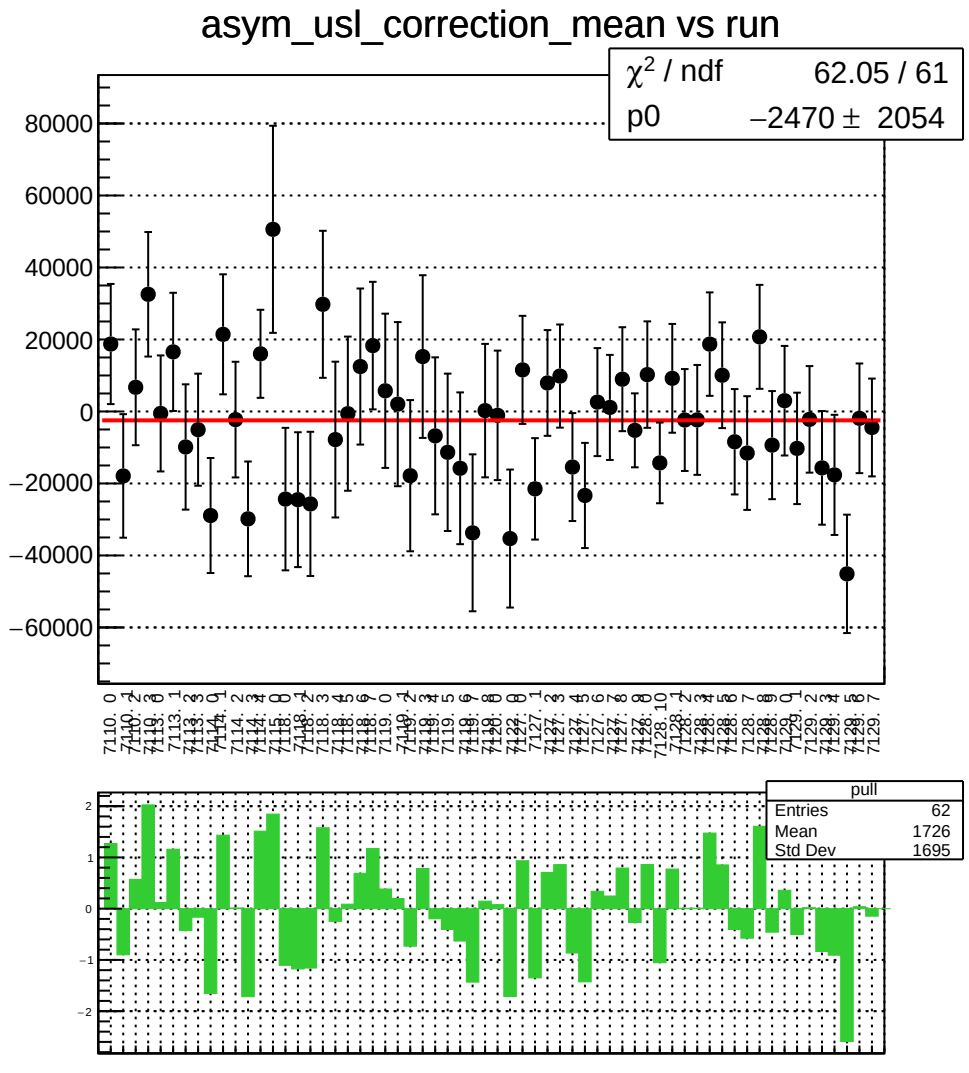

pull1D
Entries 62
Mean 0.001618
Std Dev 0.9818

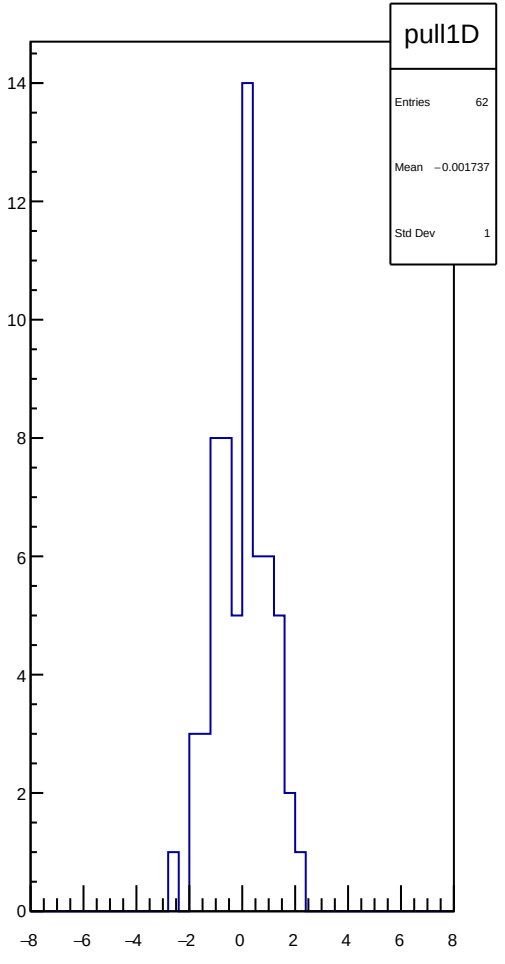

asym_ds_dd_rms vs run
χ^2 / ndf 1.199e+04 / 61
p0 115 ± 0.106
140
130
120
110
100
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

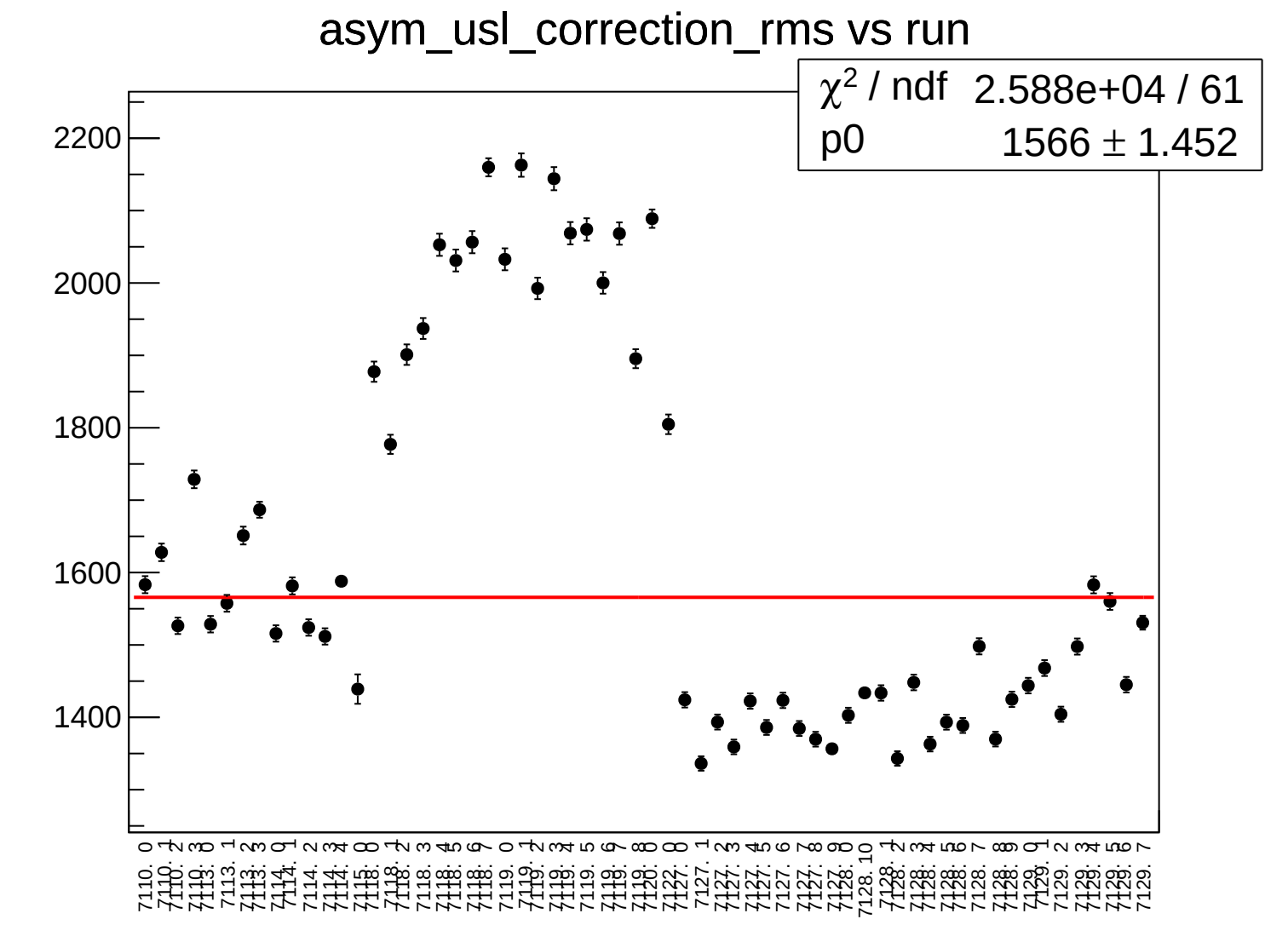

reg_asym_usl_mean vs run
χ² / ndf 46.28 / 61
p0 2104 ± 1445
pull
Entries 62
Mean −18.89
Std Dev 56.65

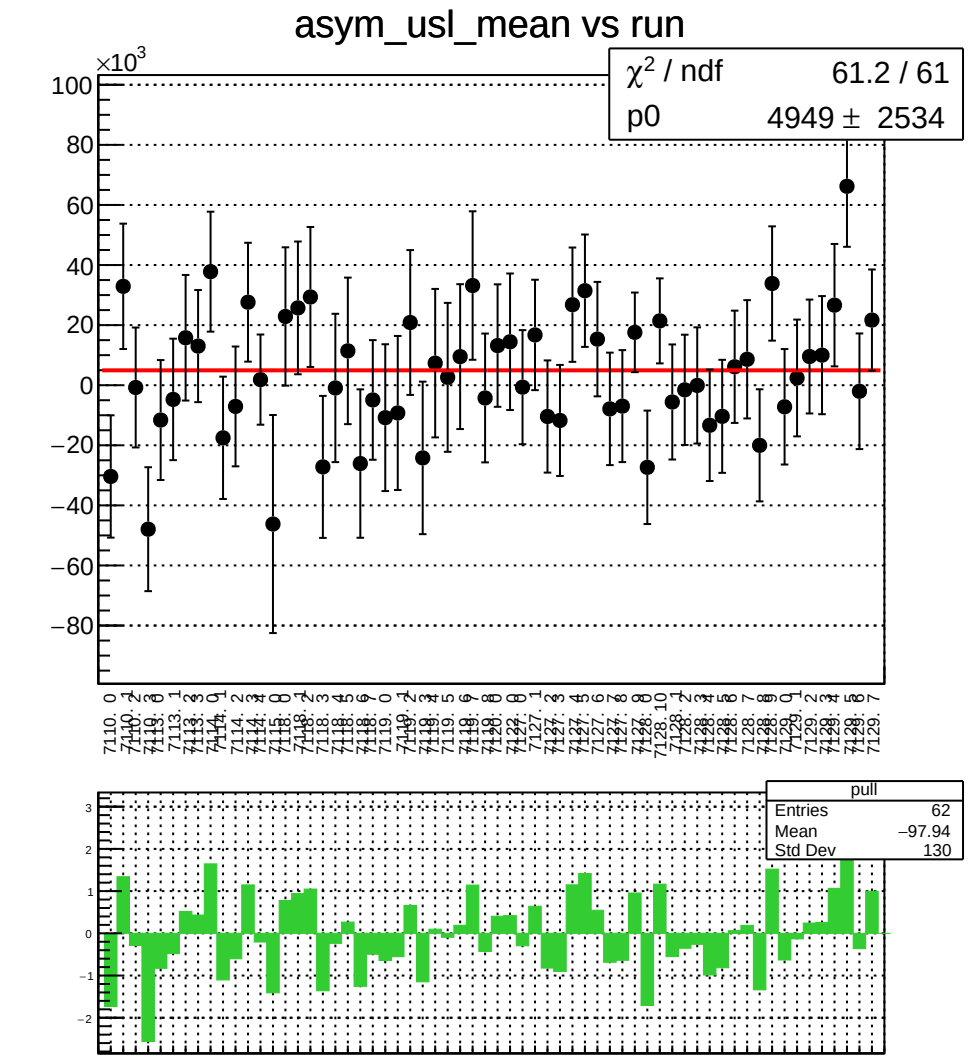

pull1D
Entries 62
Mean −0.03541
Std Dev 0.8633

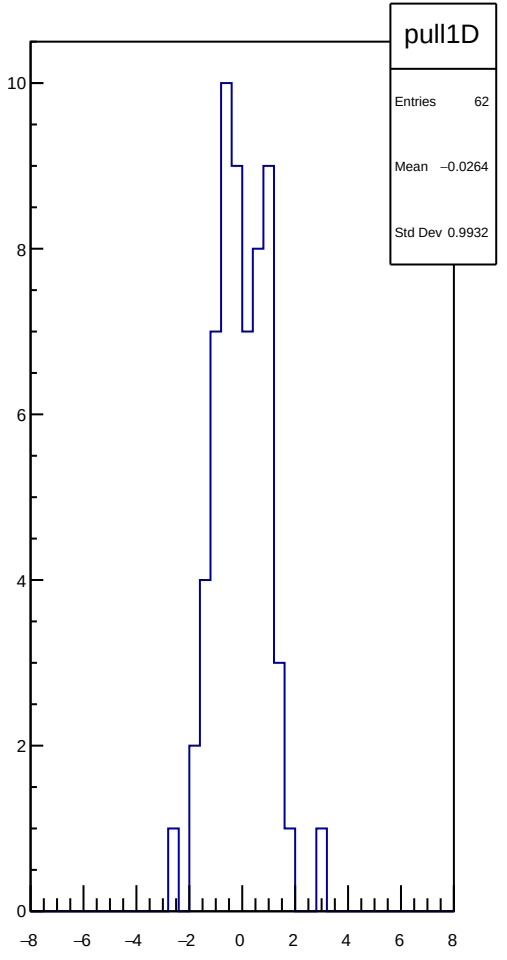

reg_asym_usl_rms vs run
χ² / ndf 90.09 / 61
p0 1114 ± 1.022
1160
1150
1140
1130
1120
1110
1100
1090
1080

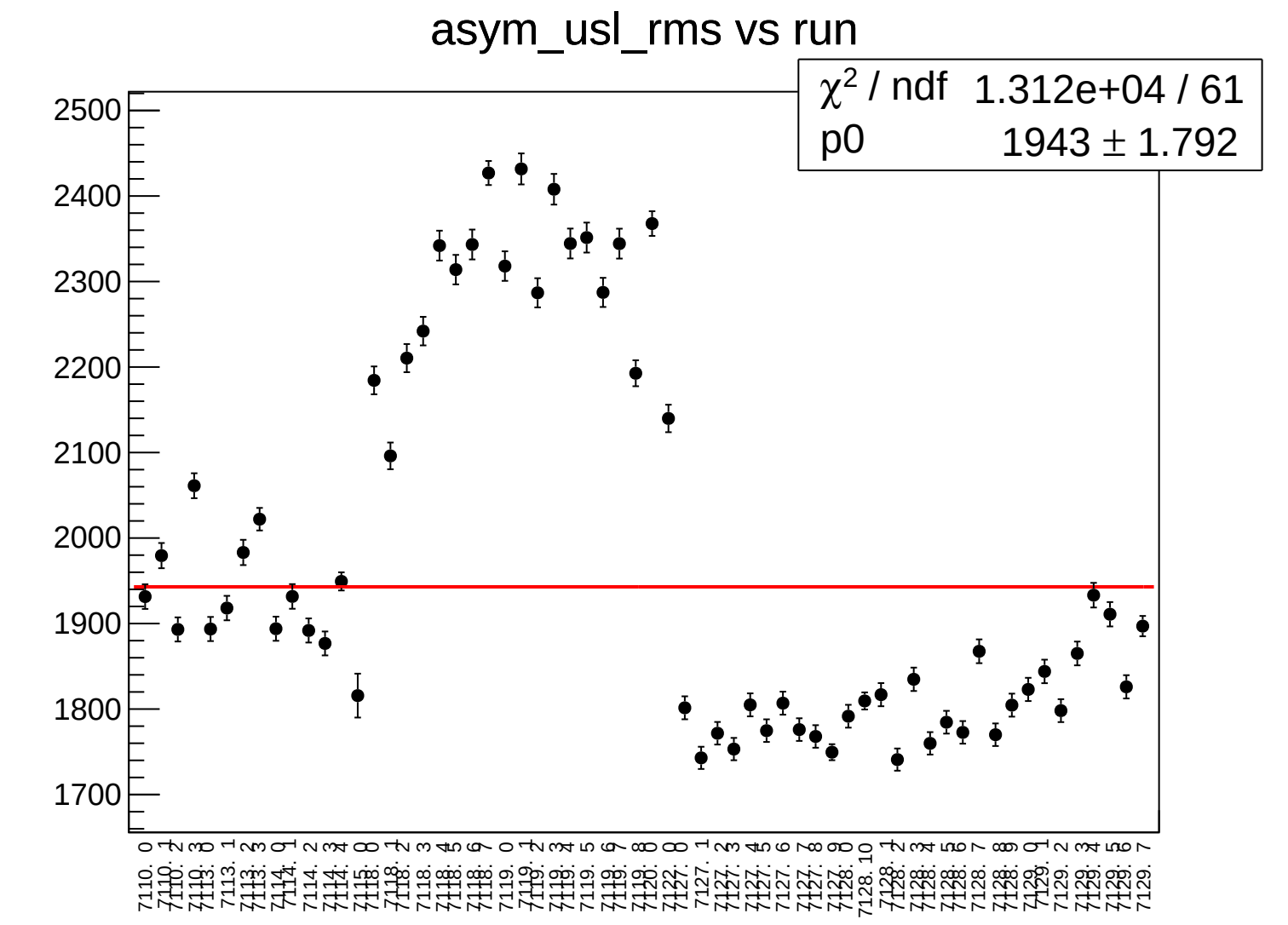

asym_usl_correction_mean vs run
χ² / ndf 62.05 / 61
p0 −2470 ± 2054
pull
Entries 62
Mean 1726
Std Dev 1695

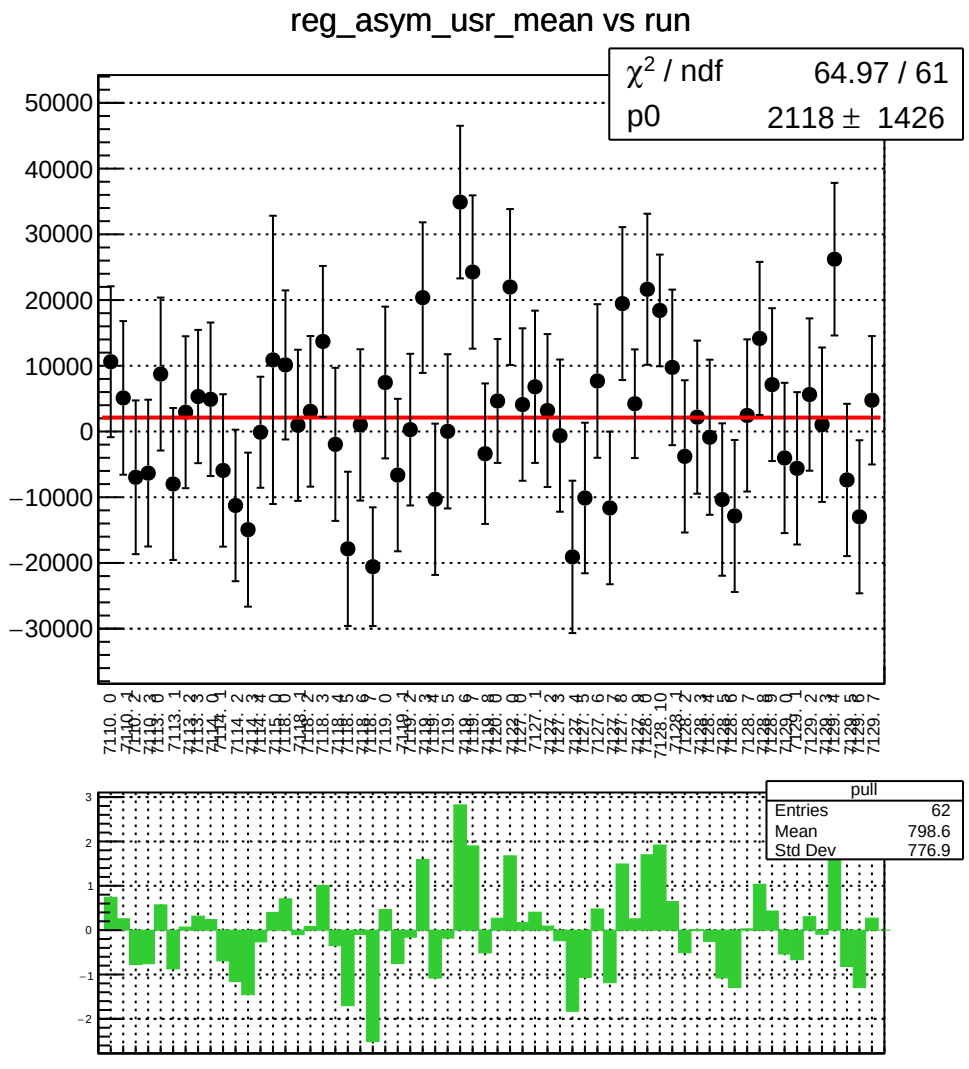

pull1D
Entries 62
Mean −0.001737
Std Dev 1

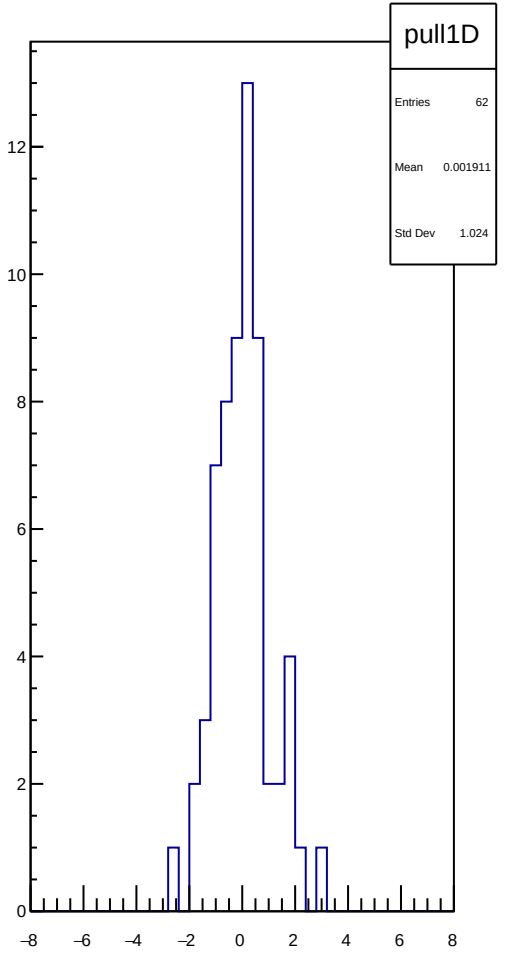

asym_usl_correction_rms vs run
χ² / ndf 2.588e+04 / 61
p0 1566 ± 1.452
2200
2000
1800
1600
1400
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

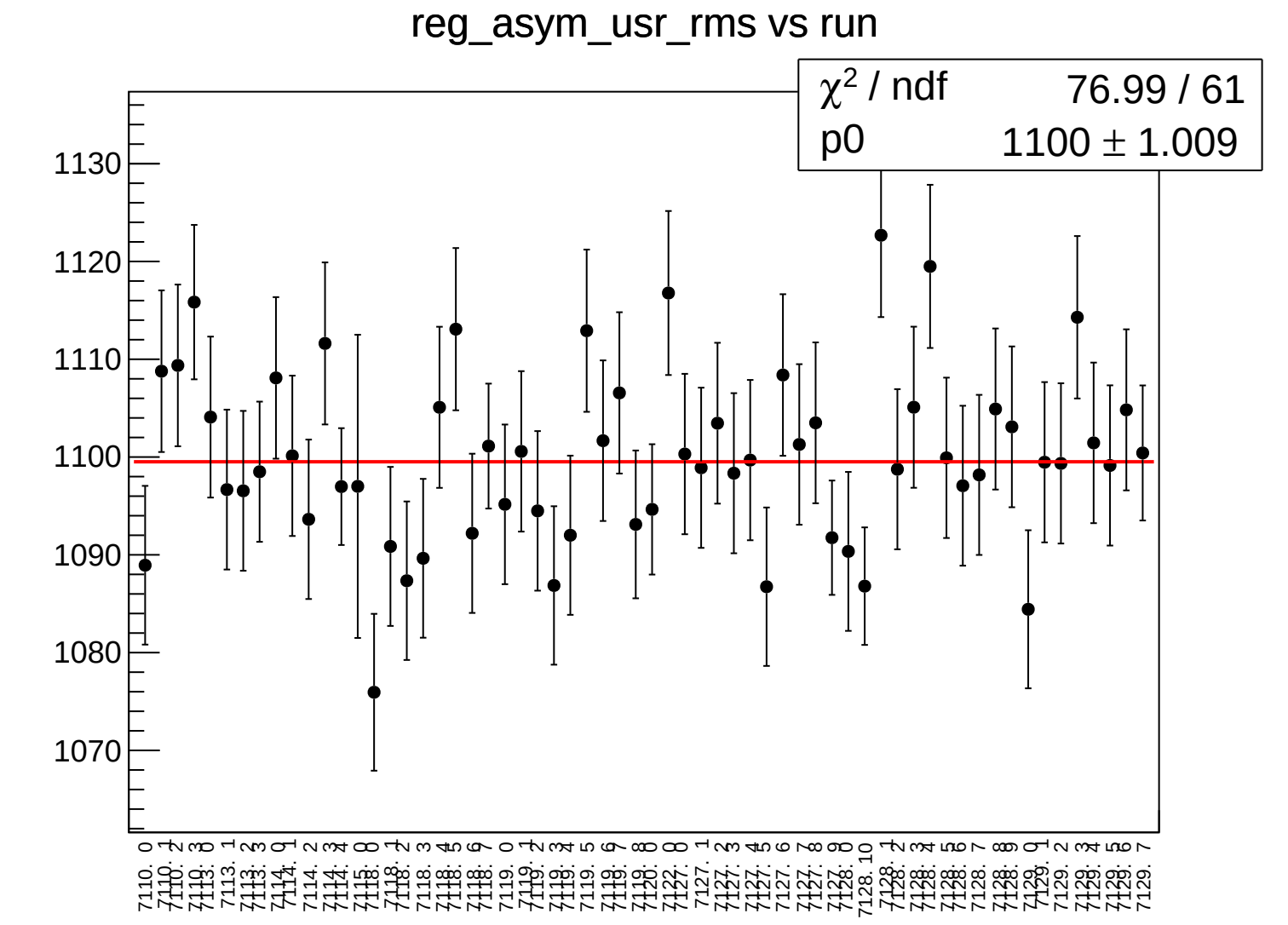

asym_usl_mean vs run
×10^3
χ^2 / ndf 61.2 / 61
p0 4949 ± 2534
pull
Entries 62
Mean −97.94
Std Dev 130

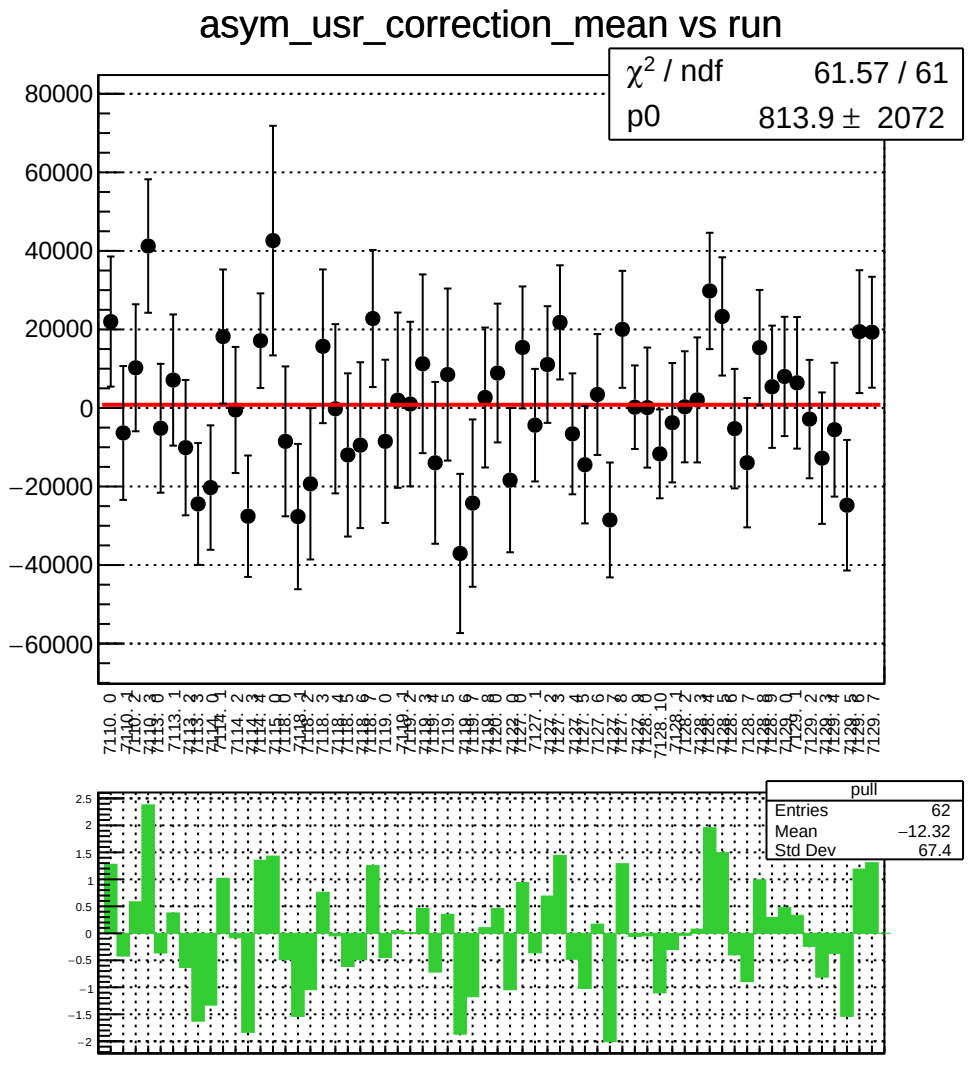

pull1D
Entries 62
Mean −0.0264
Std Dev 0.9932

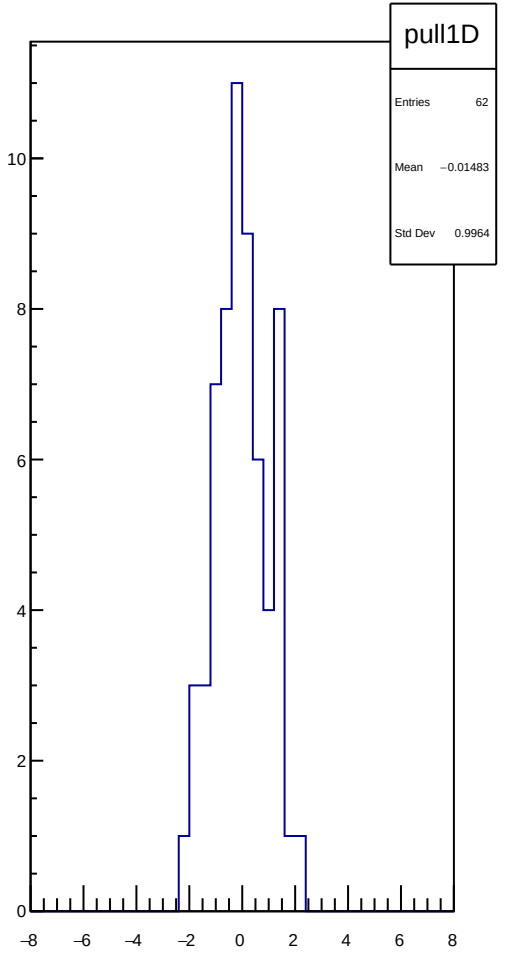

asym_usl_rms vs run
χ² / ndf 1.312e+04 / 61
p0 1943 ± 1.792
2500
2400
2300
2200
2100
2000
1900
1800
1700

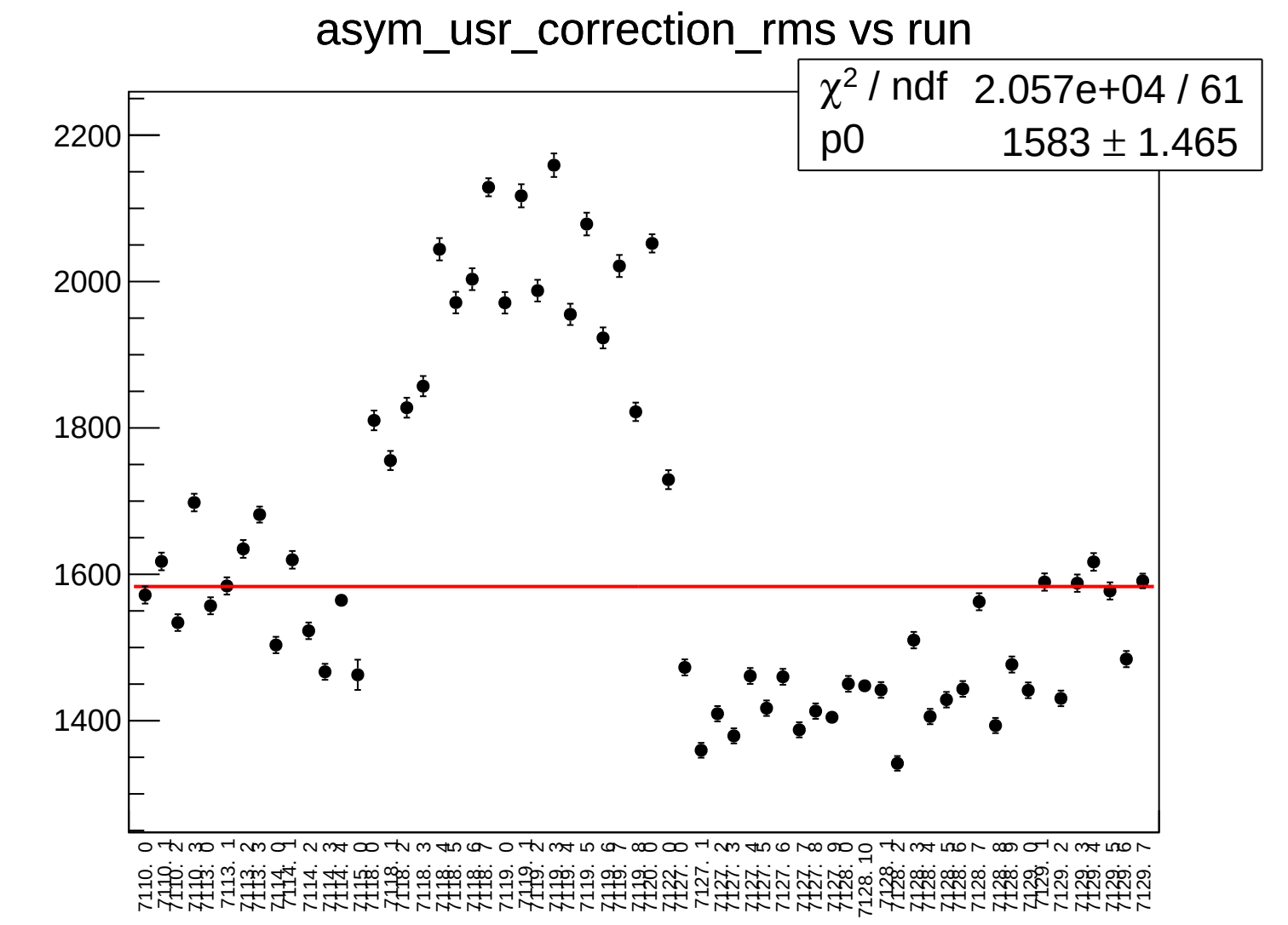

reg_asym_usr_mean vs run
χ^2 / ndf 64.97 / 61
p0 2118 ± 1426
pull
Entries 62
Mean 798.6
Std Dev 776.9

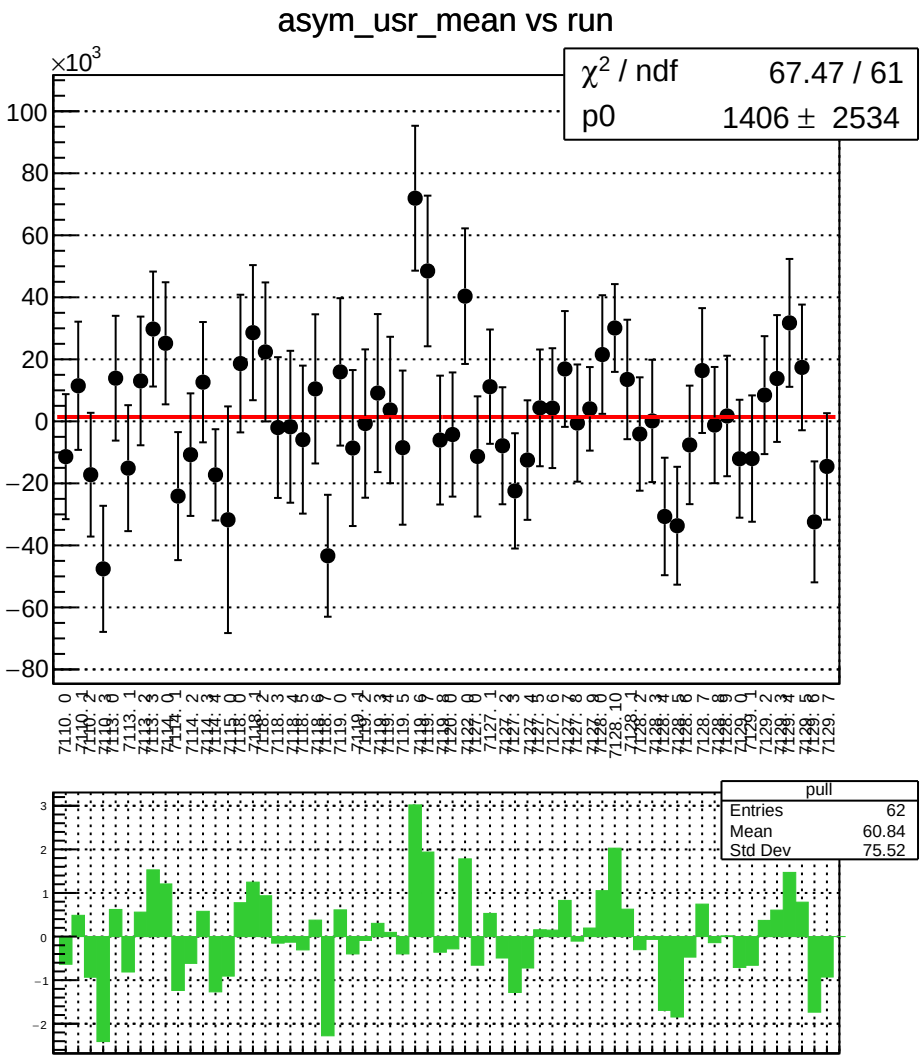

pull1D
Entries 62
Mean 0.001911
Std Dev 1.024

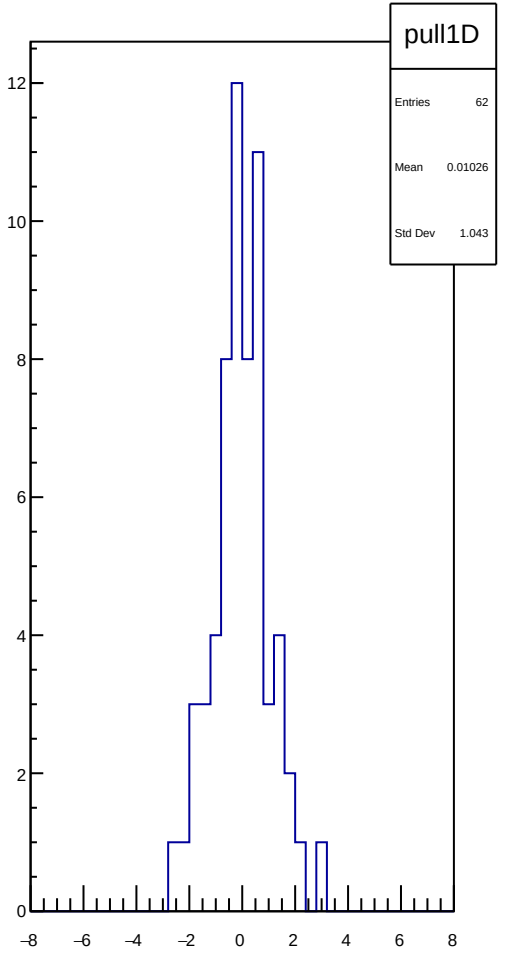

reg_asym_usr_rms vs run
χ² / ndf 76.99 / 61
p0 1100 ± 1.009
1130
1120
1110
1100
1090
1080
1070
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

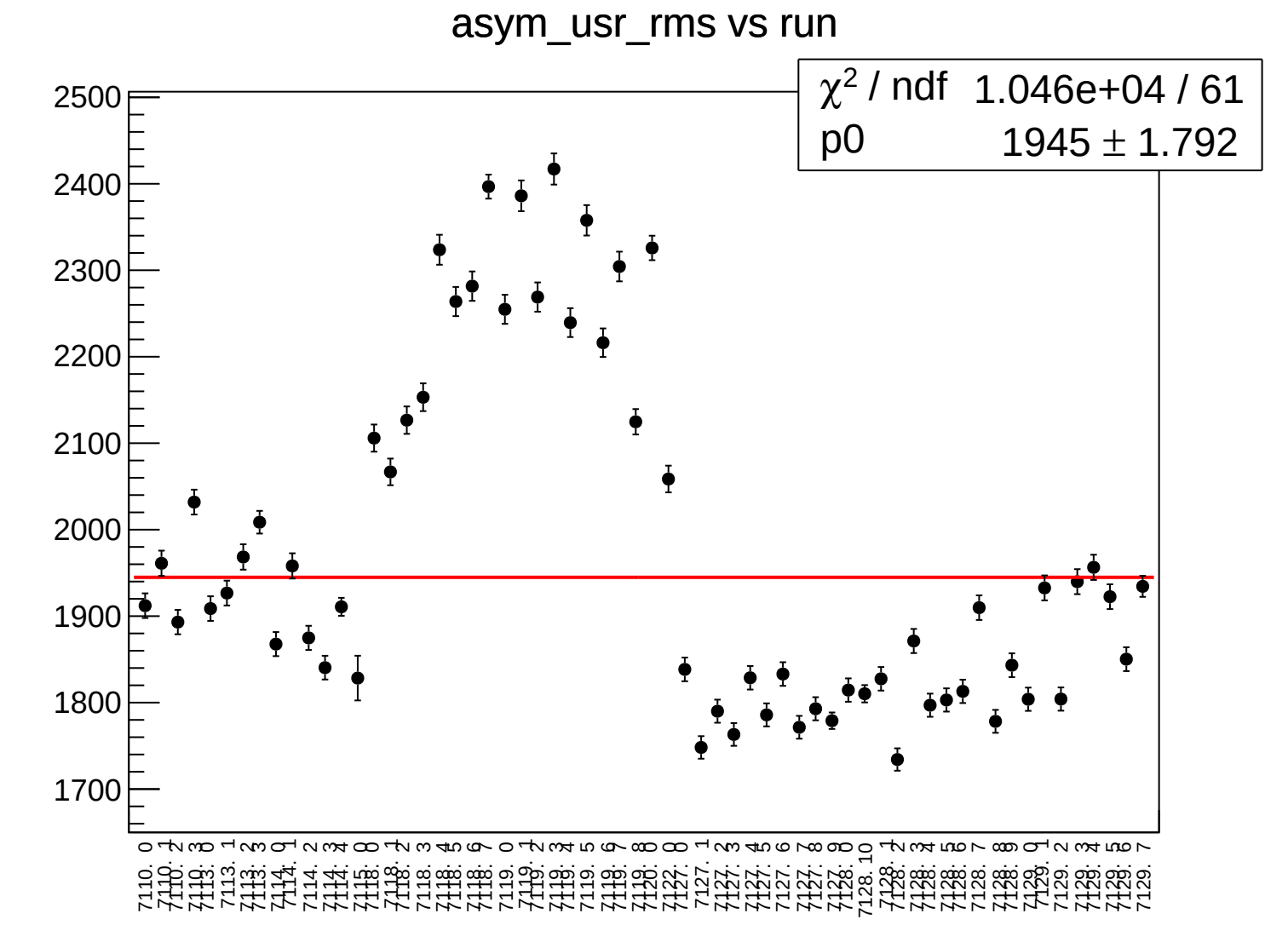

asym_usr_correction_mean vs run
χ² / ndf 61.57 / 61
p0 813.9 ± 2072
pull
Entries 62
Mean −12.32
Std Dev 67.4

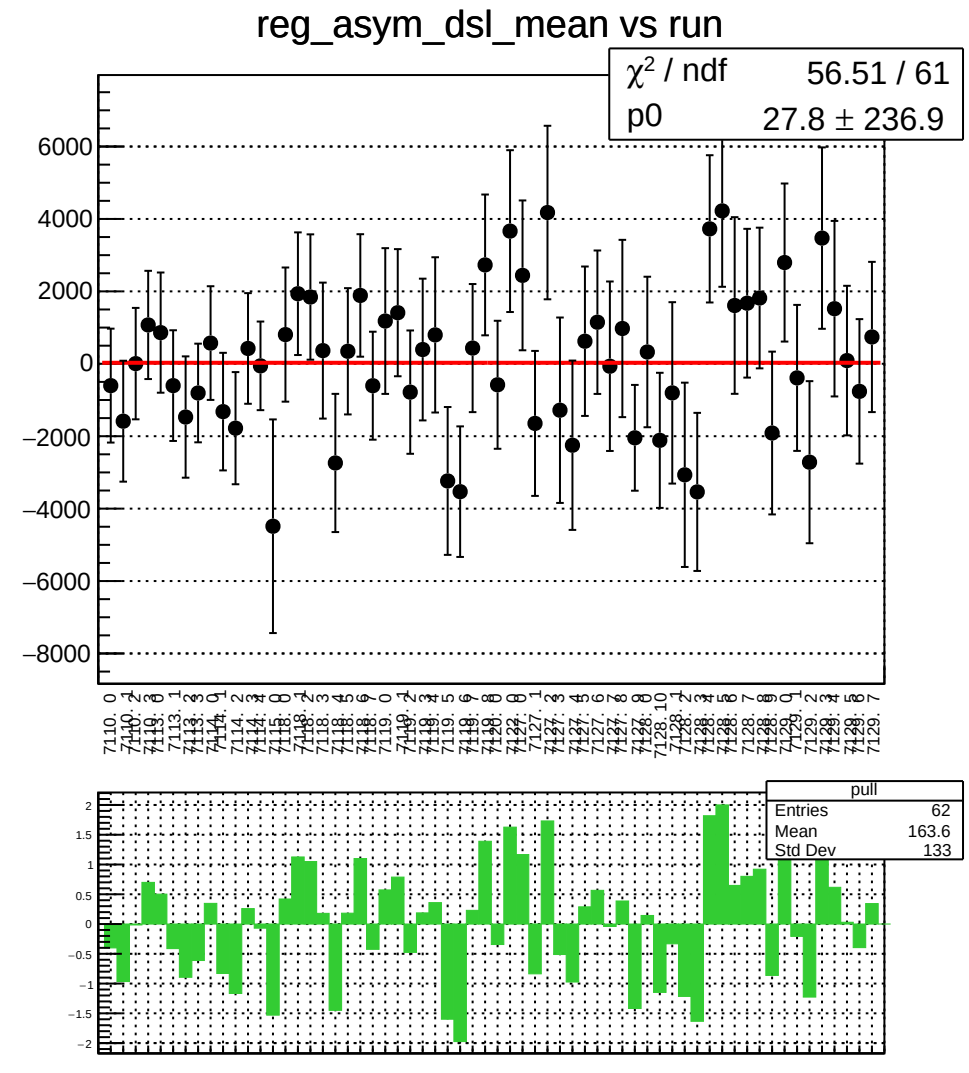

pull1D
Entries 62
Mean −0.01483
Std Dev 0.9964

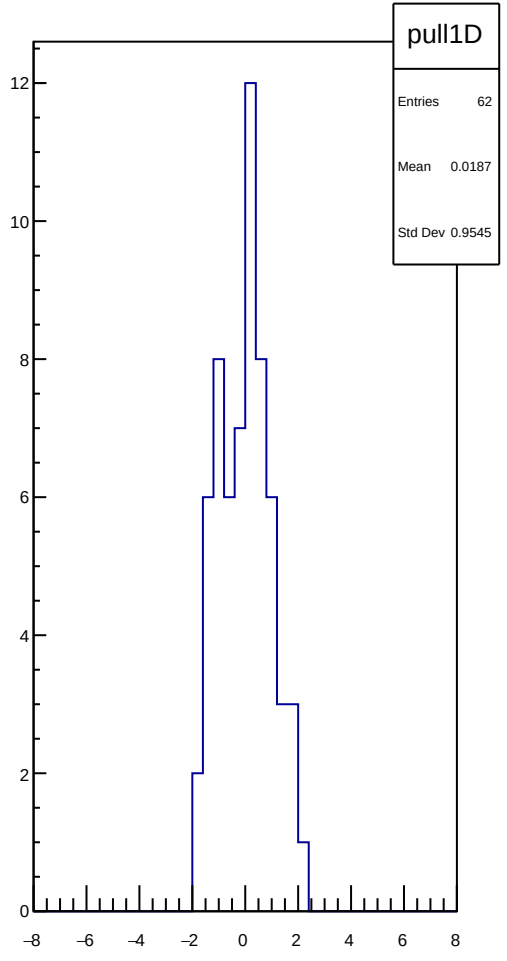

asym_usr_correction_rms vs run
χ² / ndf 2.057e+04 / 61
p0 1583 ± 1.465
2200
2000
1800
1600
1400
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 8
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

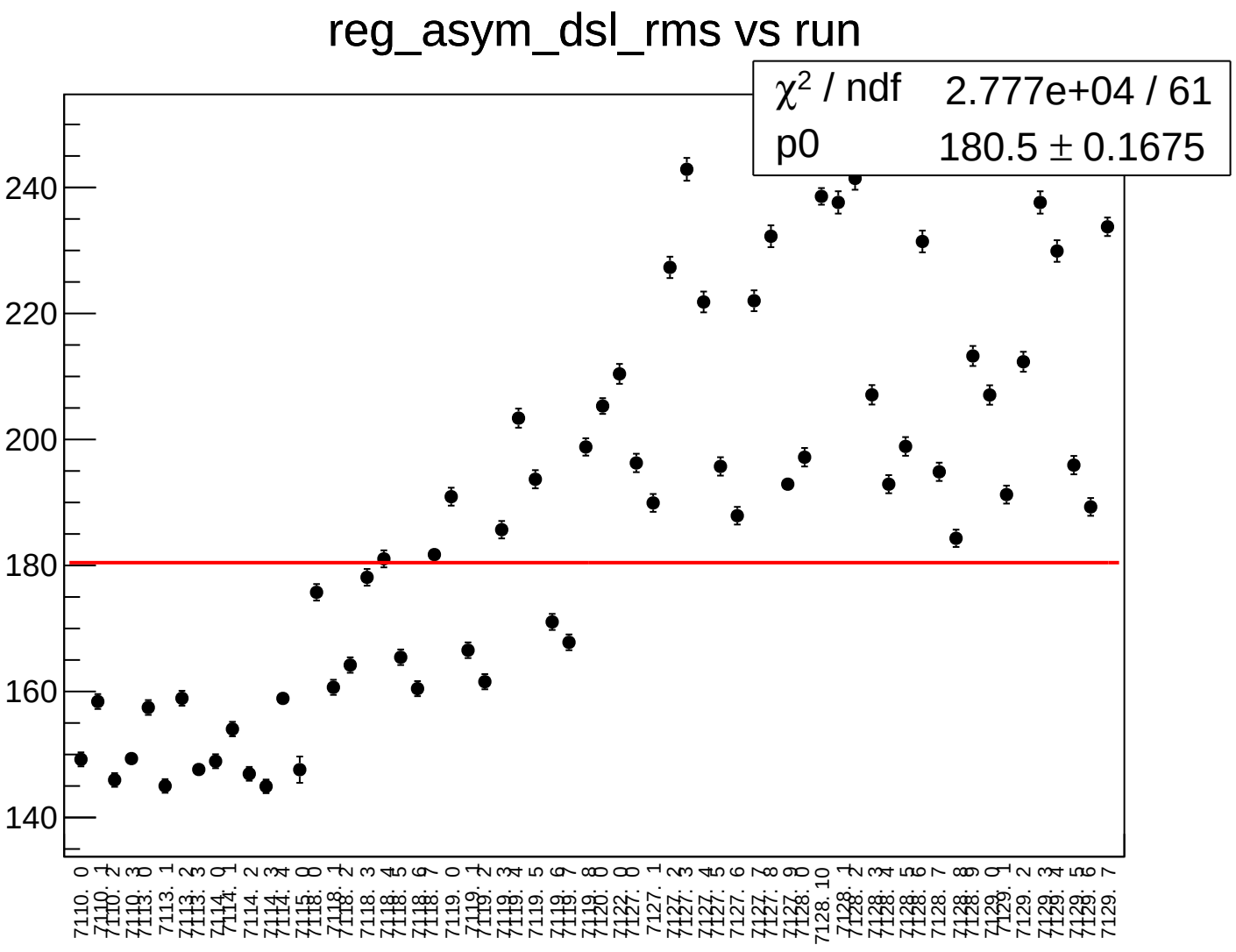

asym_usr_mean vs run
×10^3
χ² / ndf 67.47 / 61
p0 1406 ± 2534
pull
Entries 62
Mean 60.84
Std Dev 75.52

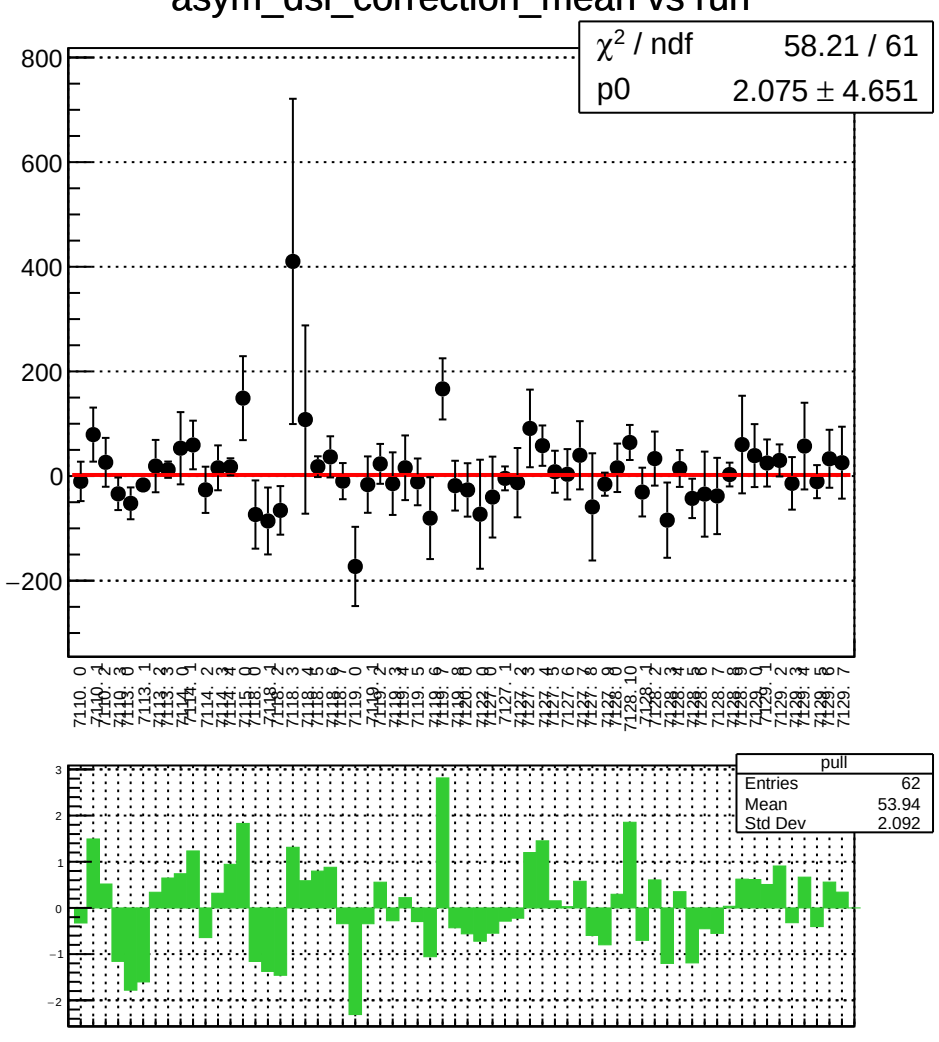

pull1D
Entries 62
Mean 0.01026
Std Dev 1.043

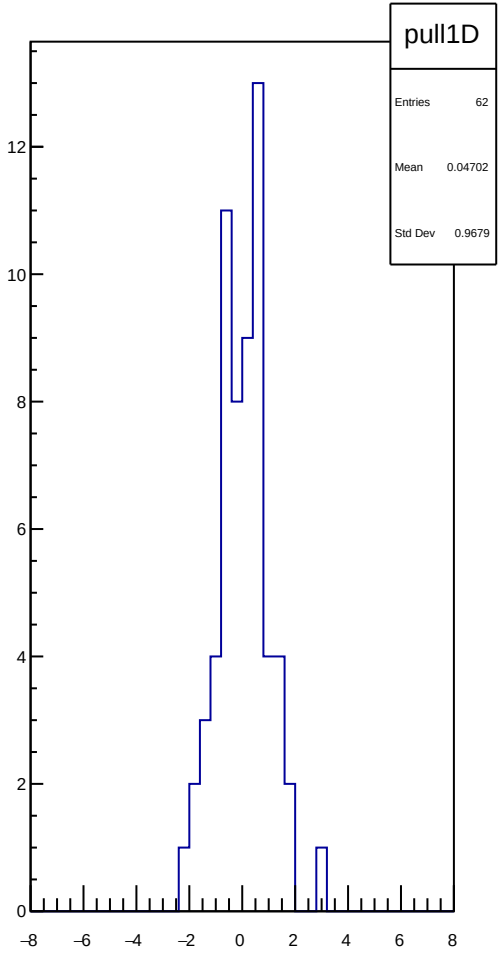

asym_usr_rms vs run
χ² / ndf 1.046e+04 / 61
p0 1945 ± 1.792
2500
2400
2300
2200
2100
2000
1900
1800
1700

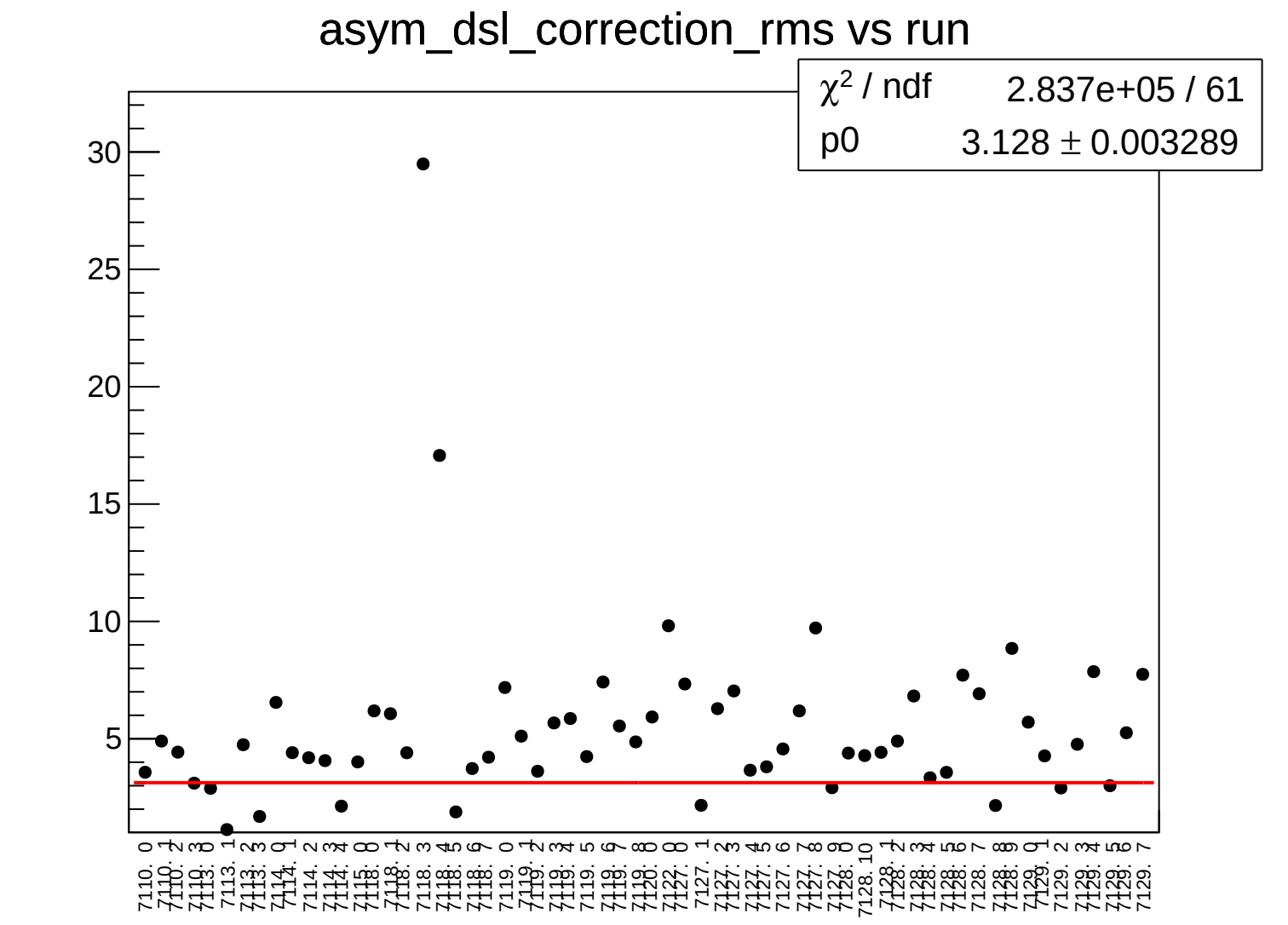

reg_asym_dsl_mean vs run
χ² / ndf 56.51 / 61
p0 27.8 ± 236.9
pull
Entries 62
Mean 163.6
Std Dev 133

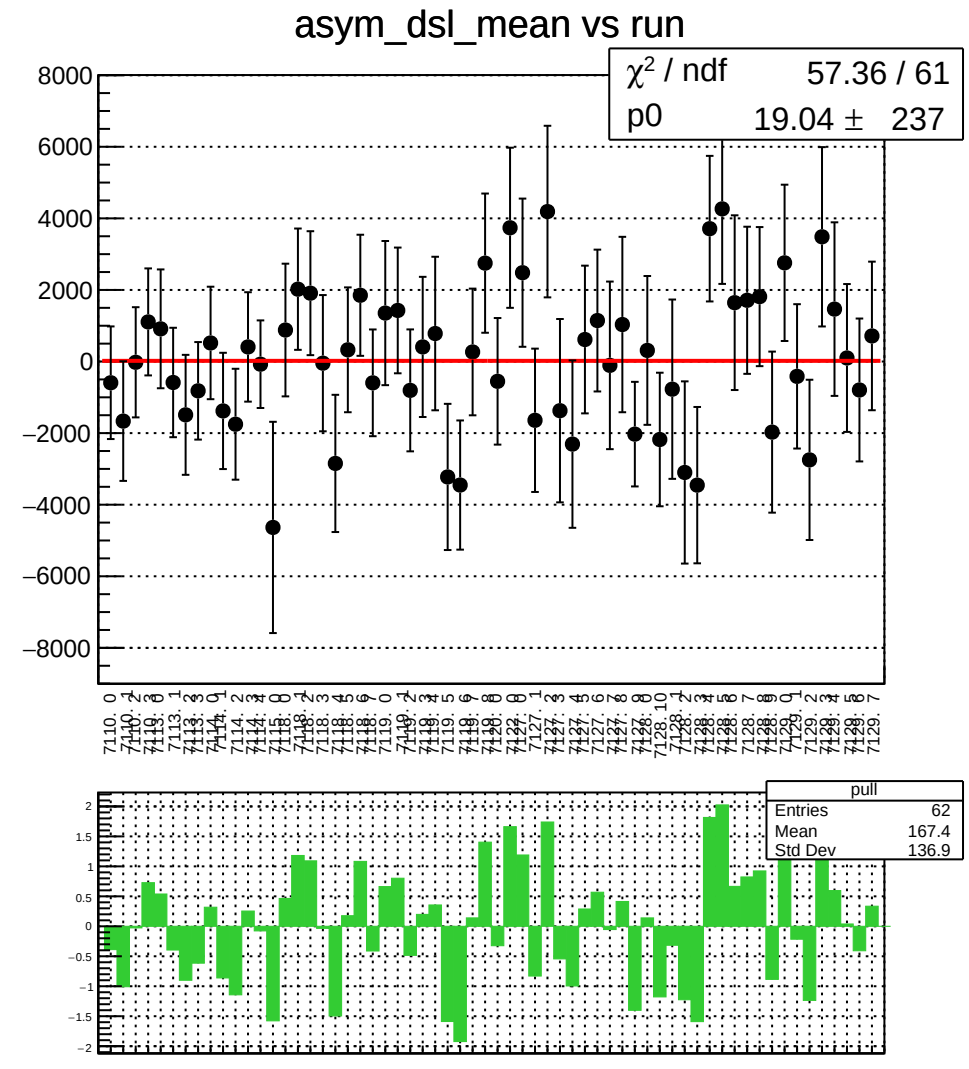

pull1D
Entries 62
Mean 0.0187
Std Dev 0.9545

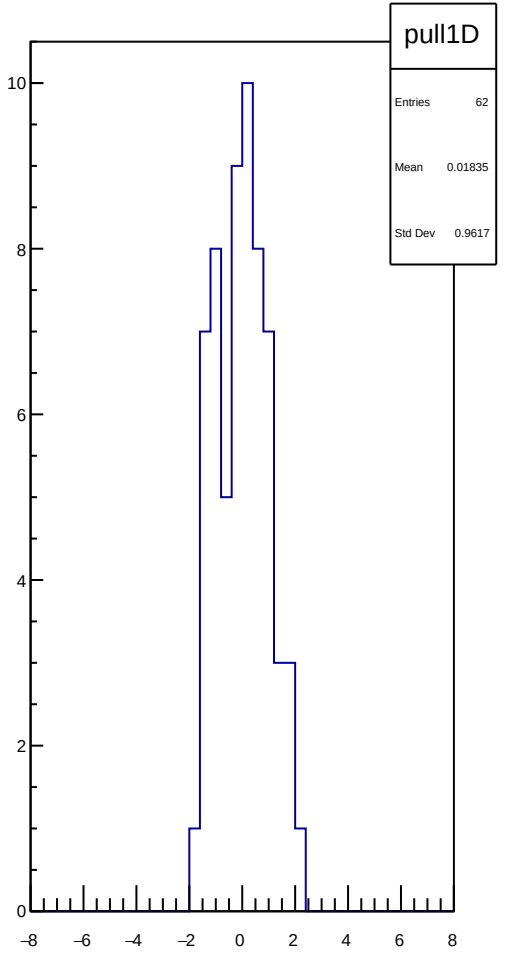

reg_asym_dsl_rms vs run
χ² / ndf 2.777e+04 / 61
p0 180.5 ± 0.1675
240
220
200
180
160
140
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

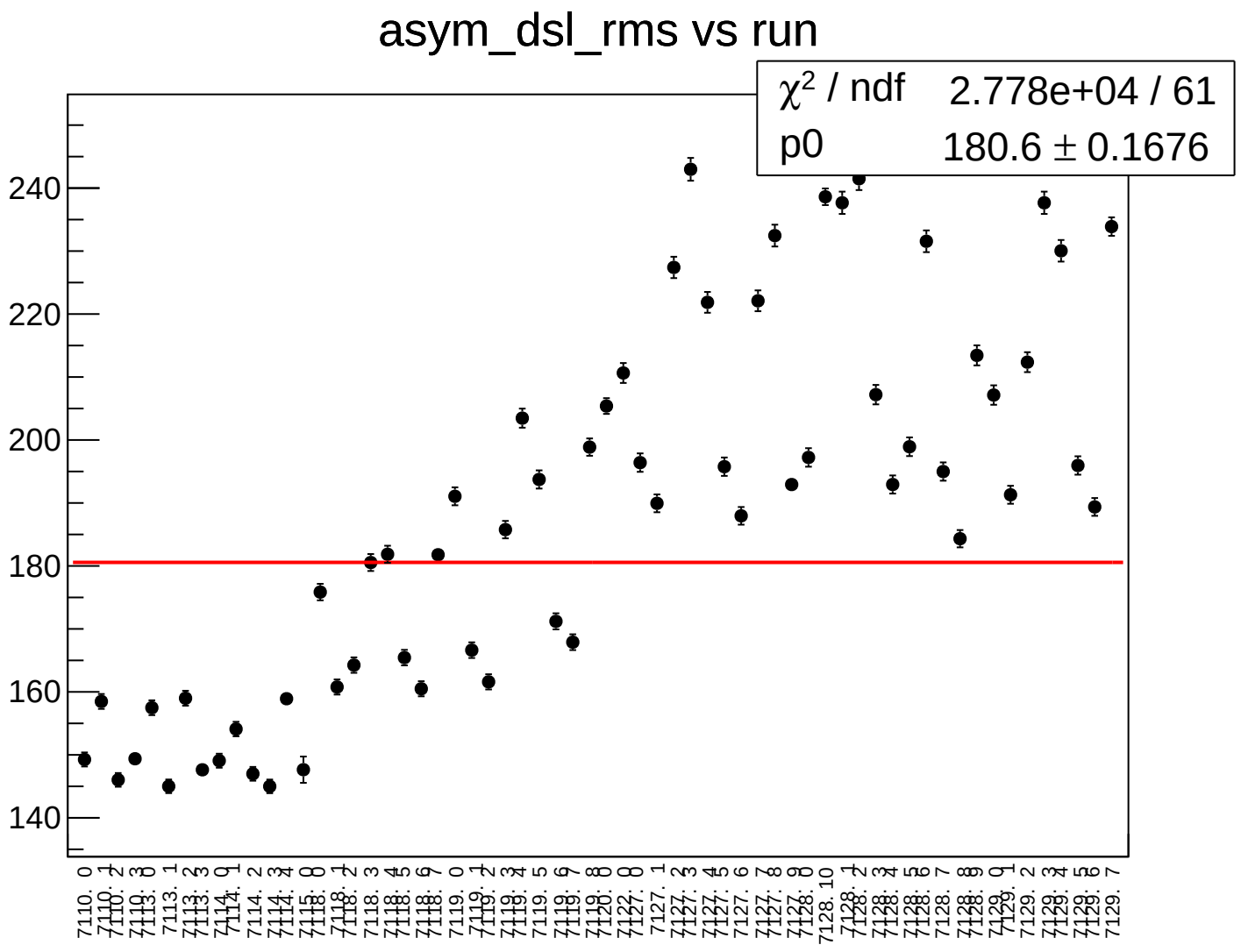

asym_dsl_correction_mean vs run
χ² / ndf 58.21 / 61
p0 2.075 ± 4.651
pull
Entries 62
Mean 53.94
Std Dev 2.092

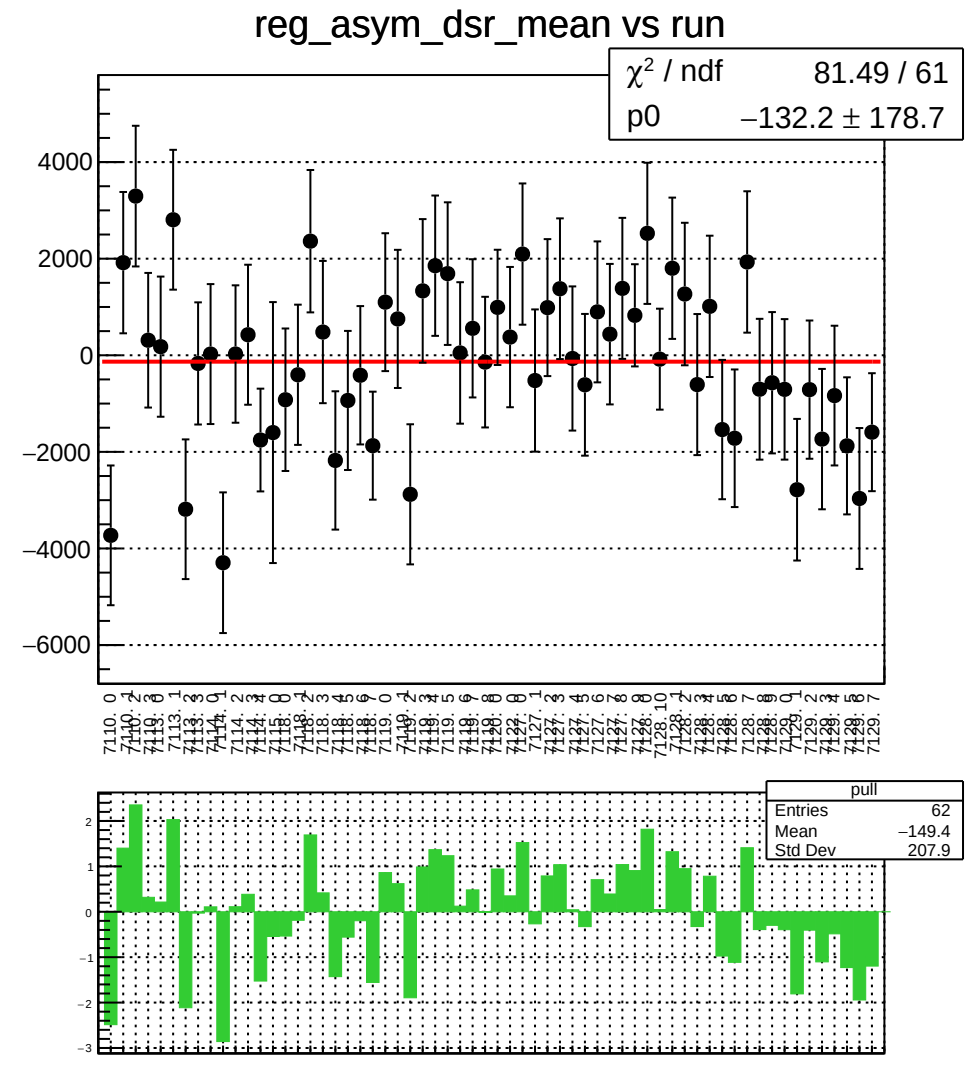

pull1D
Entries 62
Mean 0.04702
Std Dev 0.9679

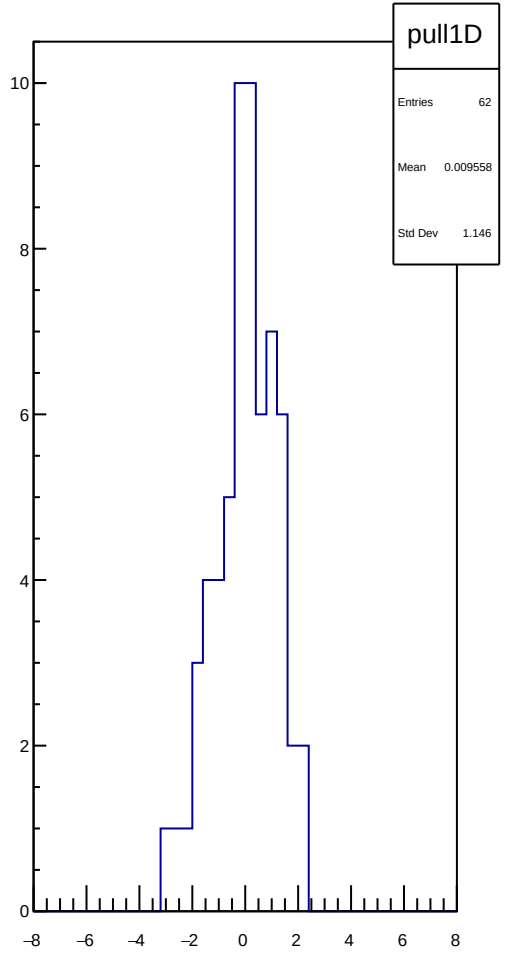

asym_dsl_correction_rms vs run
χ^2 / ndf 2.837e+05 / 61
p0 3.128 ± 0.003289
30
25
20
15
10
5

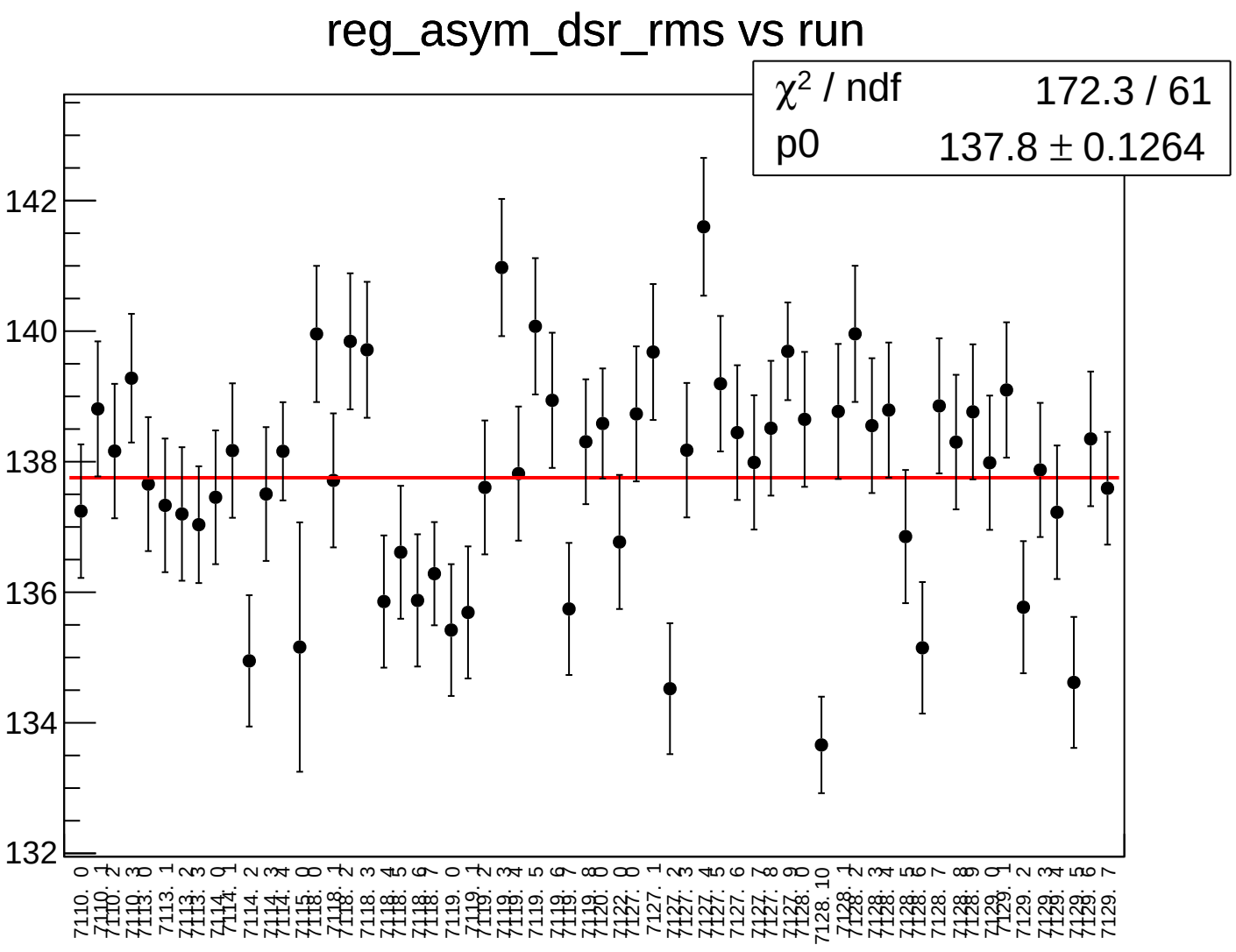

asym_dsl_mean vs run
χ² / ndf 57.36 / 61
p0 19.04 ± 237
pull
Entries 62
Mean 167.4
Std Dev 136.9

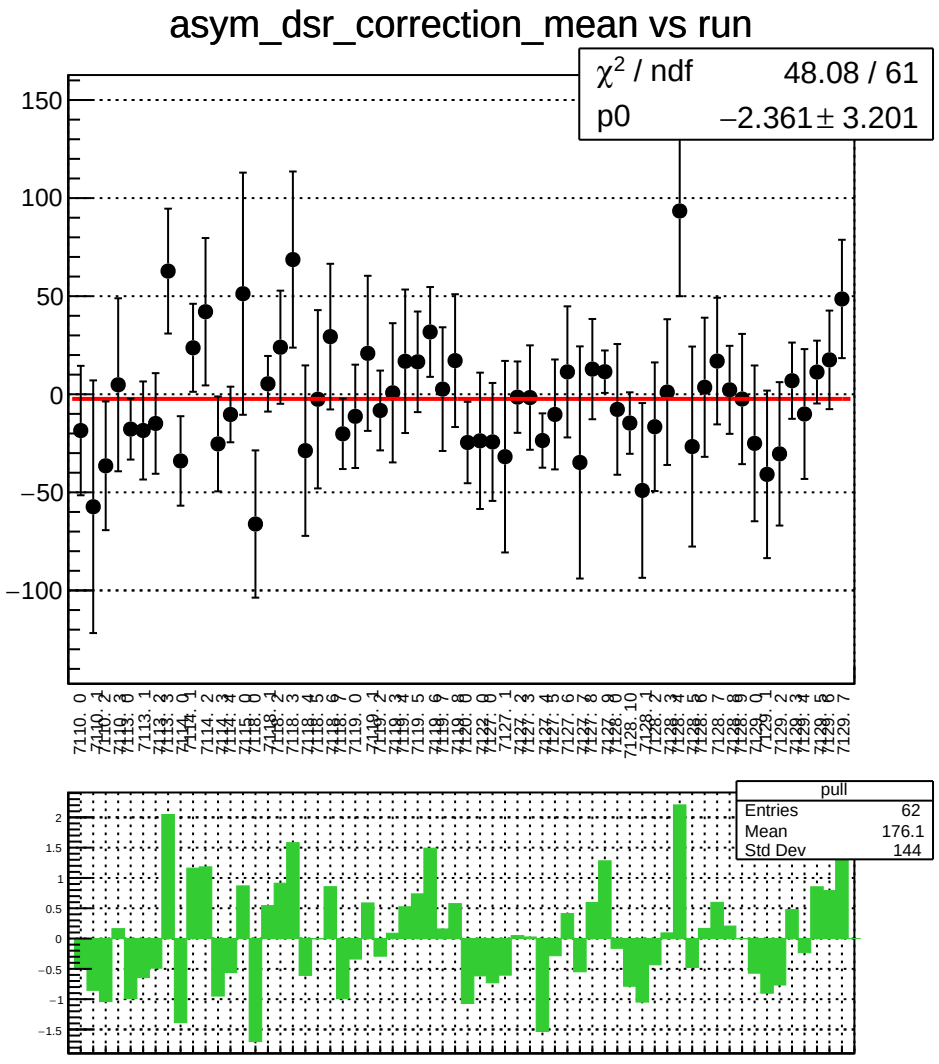

pull1D
Entries 62
Mean 0.01835
Std Dev 0.9617

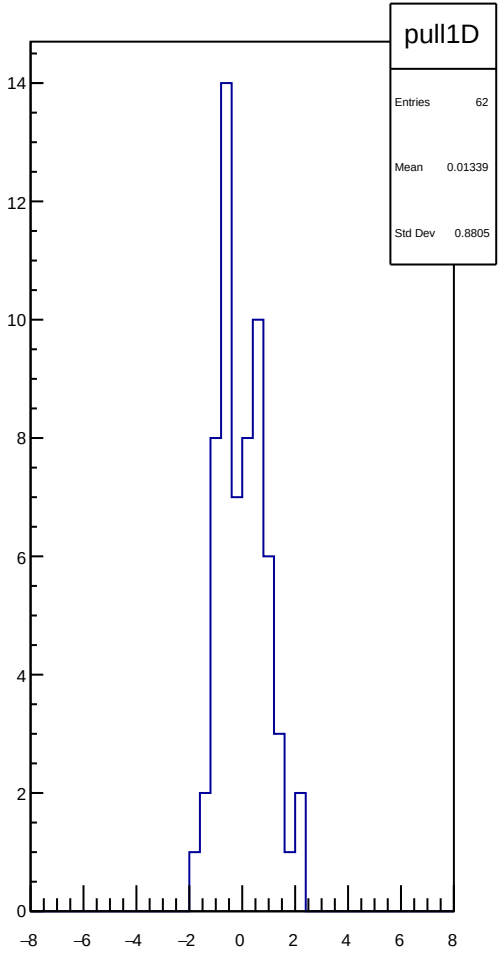

asym_dsl_rms vs run
χ² / ndf 2.778e+04 / 61
p0 180.6 ± 0.1676
240
220
200
180
160
140
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

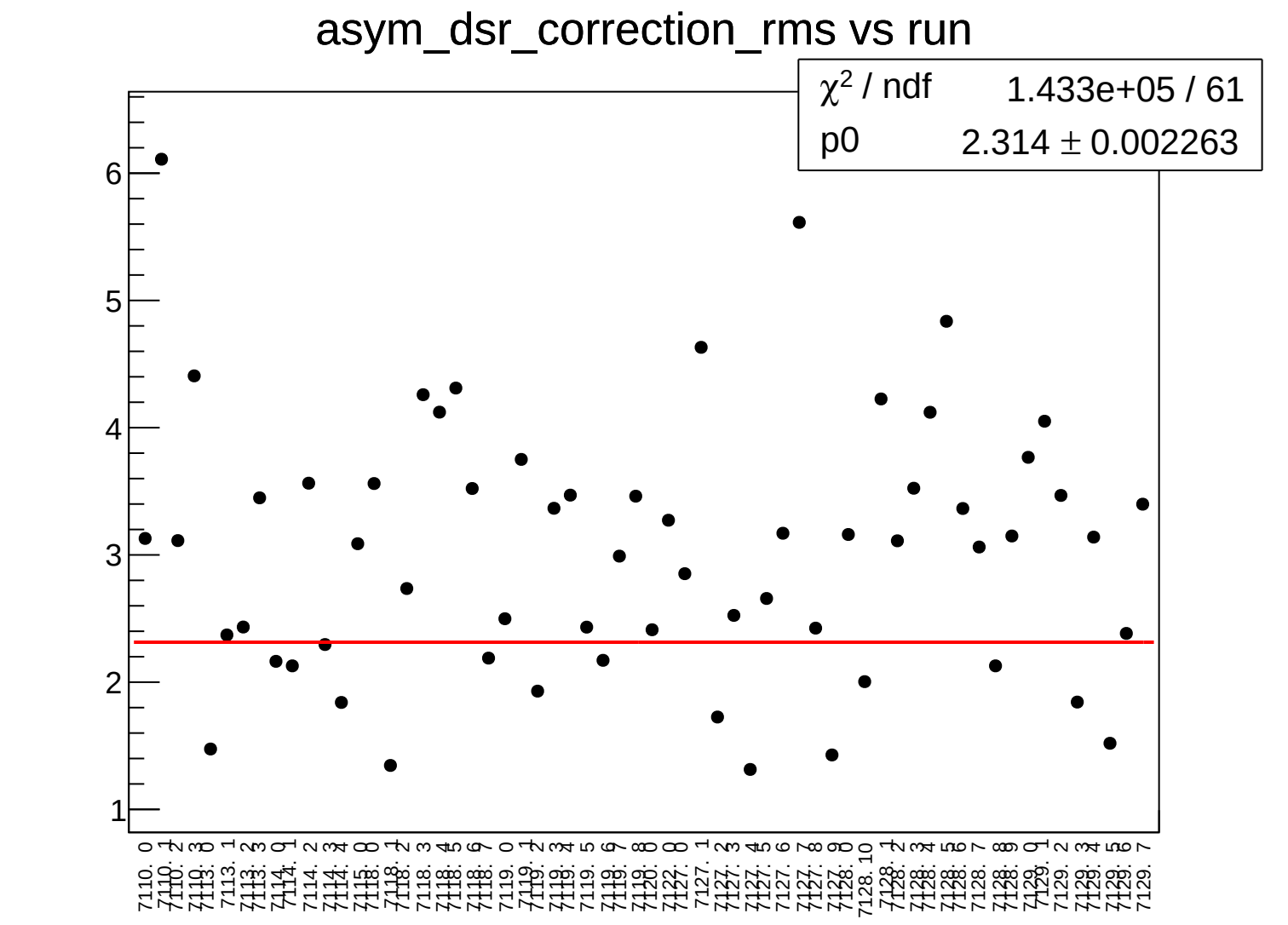

reg_asym_dsr_mean vs run
χ² / ndf 81.49 / 61
p0 −132.2 ± 178.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 62
Mean −149.4
Std Dev 207.9
2
1
0
−1
−2
−3

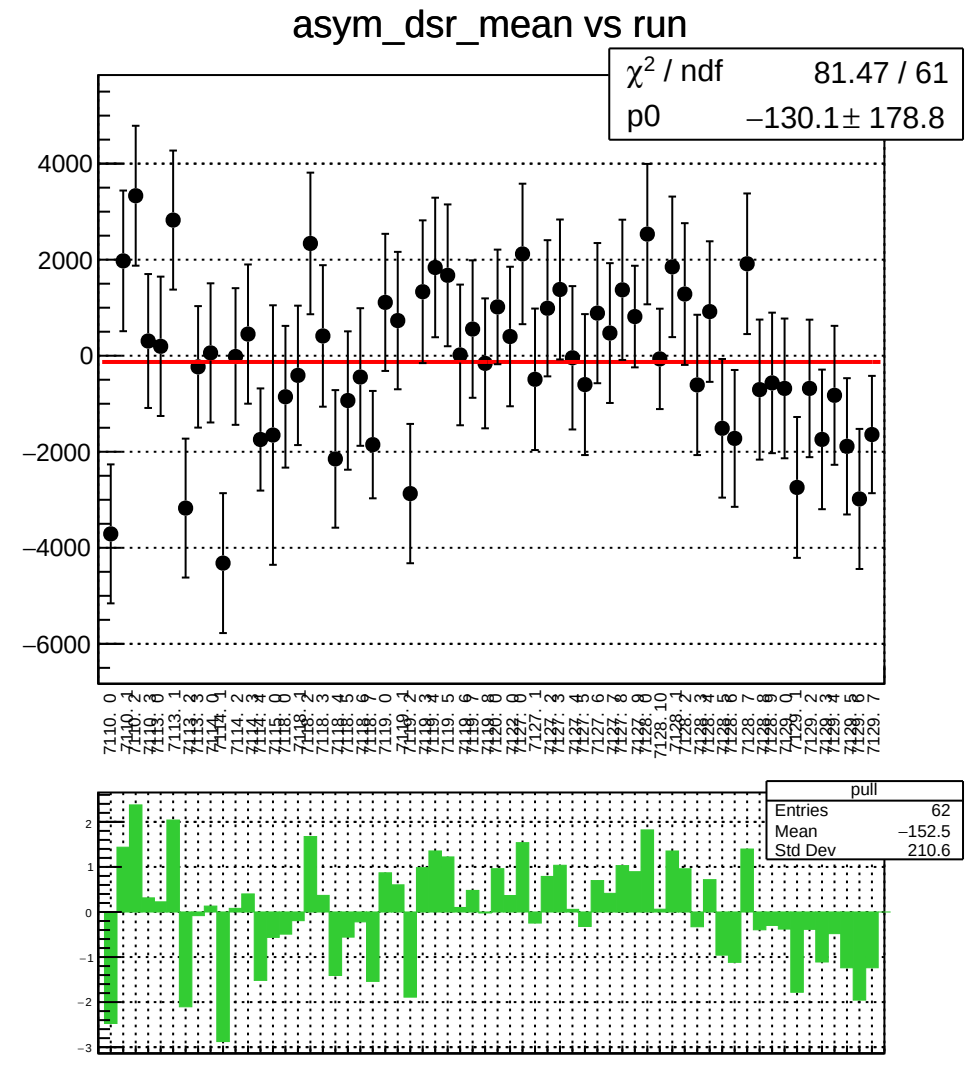

pull1D
Entries 62
Mean 0.009558
Std Dev 1.146
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

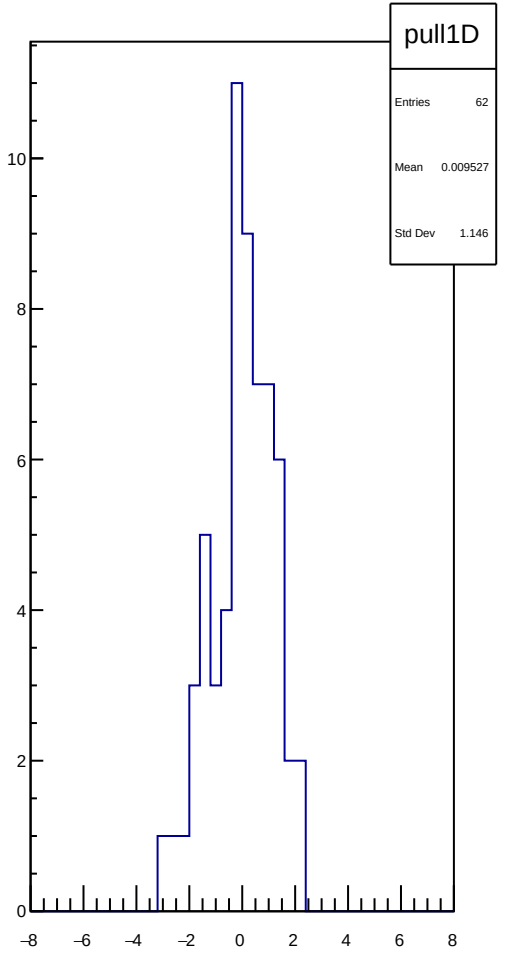

reg_asym_dsr_rms vs run
χ² / ndf 172.3 / 61
p0 137.8 ± 0.1264
142
140
138
136
134
132
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 8
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

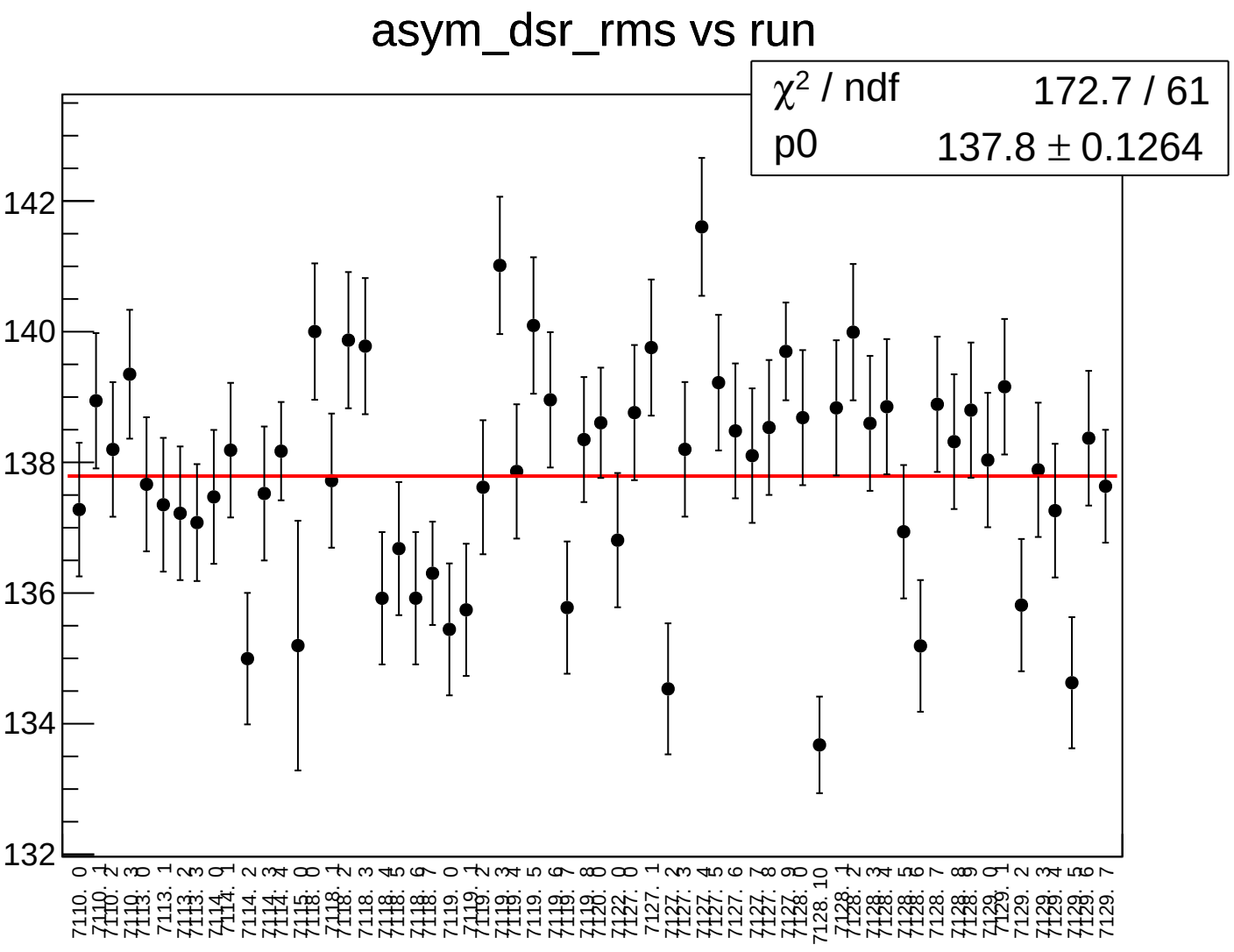

asym_dsr_correction_mean vs run
χ² / ndf 48.08 / 61
p0 −2.361 ± 3.201
150
100
50
0
−50
−100
pull
Entries 62
Mean 176.1
Std Dev 144
2
1.5
1
0.5
0
−0.5
−1
−1.5

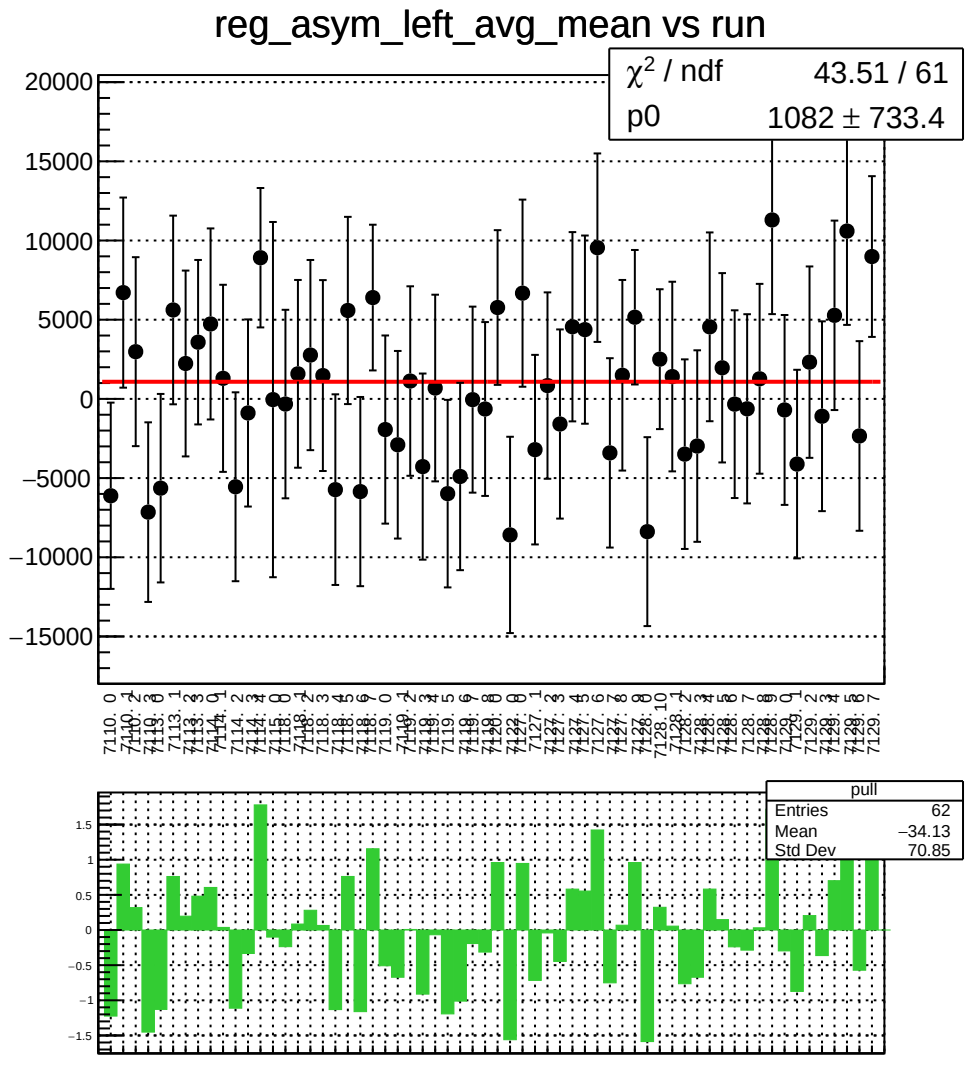

pull1D
Entries 62
Mean 0.01339
Std Dev 0.8805
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

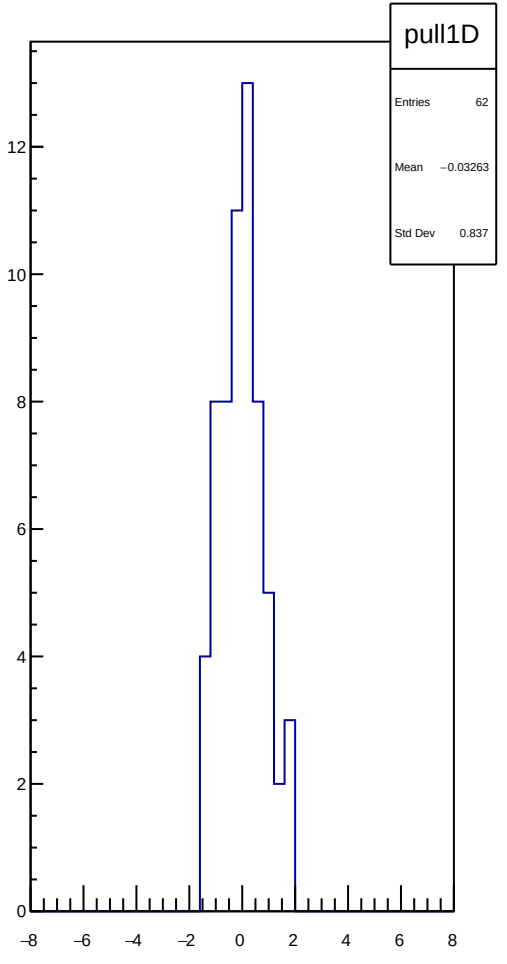

asym_dsr_correction_rms vs run
χ^2 / ndf 1.433e+05 / 61
p0 2.314 ± 0.002263
6
5
4
3
2
1
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

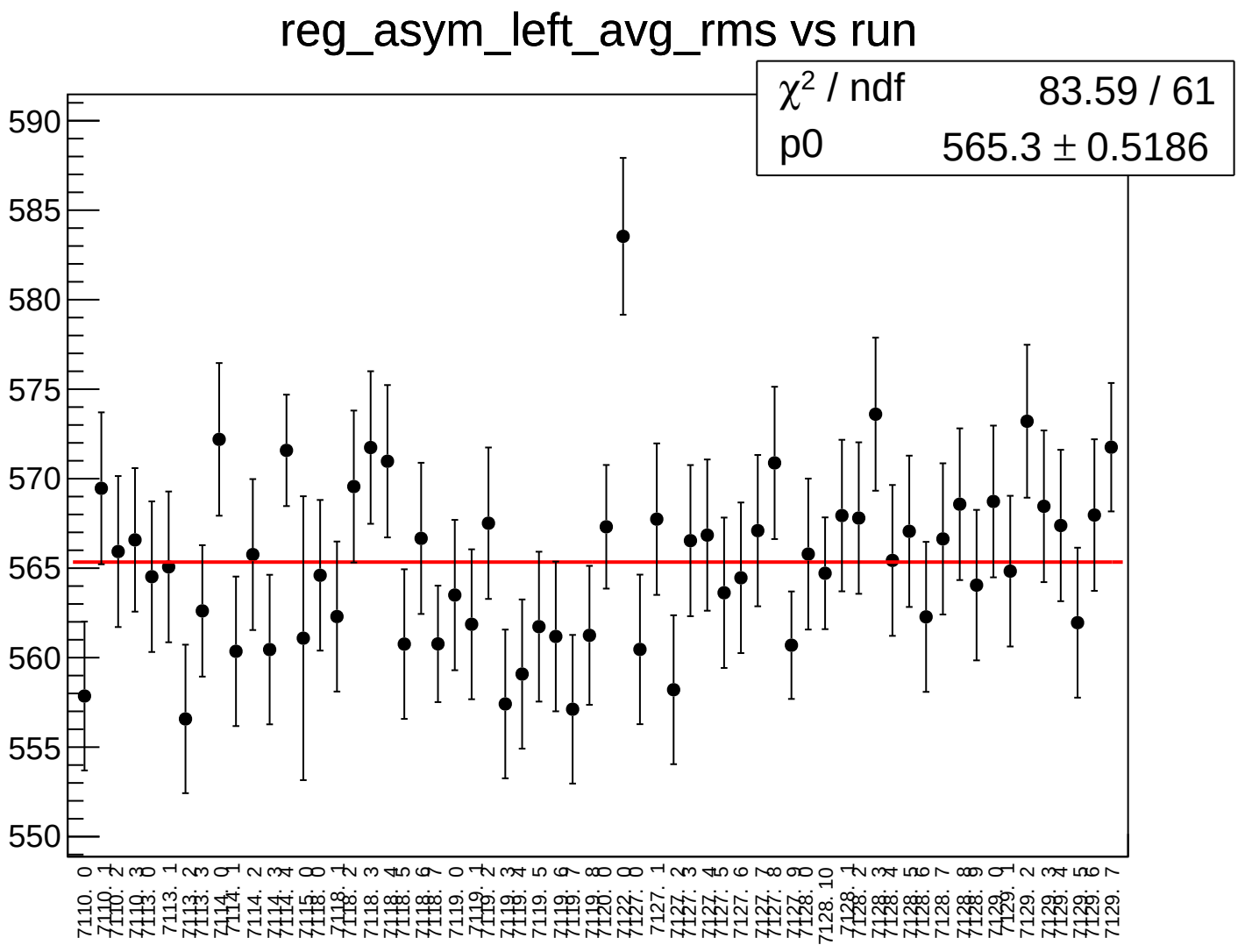

asym_dsr_mean vs run
χ² / ndf 81.47 / 61
p0 −130.1± 178.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 62
Mean −152.5
Std Dev 210.6
2
1
0
−1
−2
−3

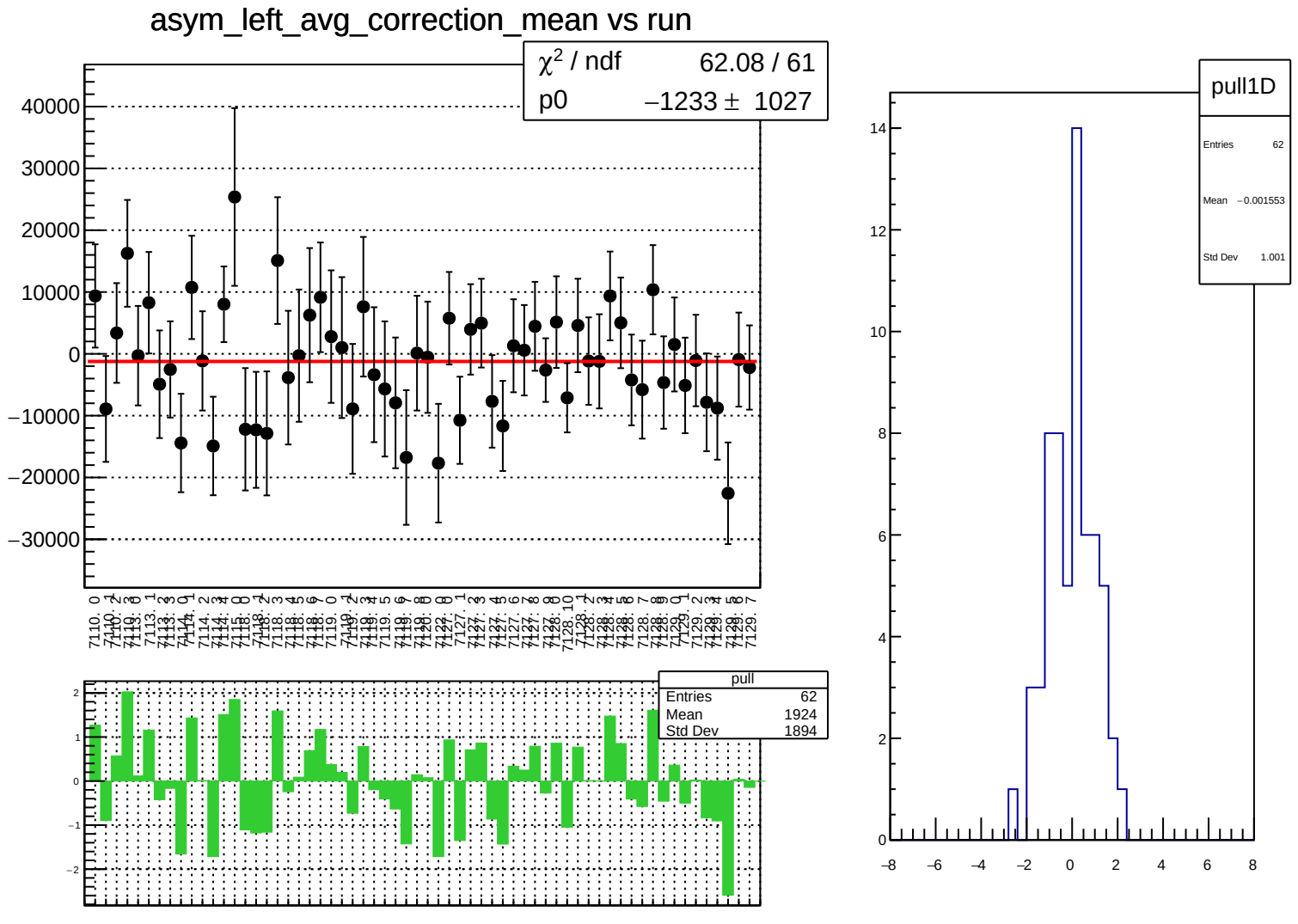

pull1D
Entries 62
Mean 0.009527
Std Dev 1.146
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

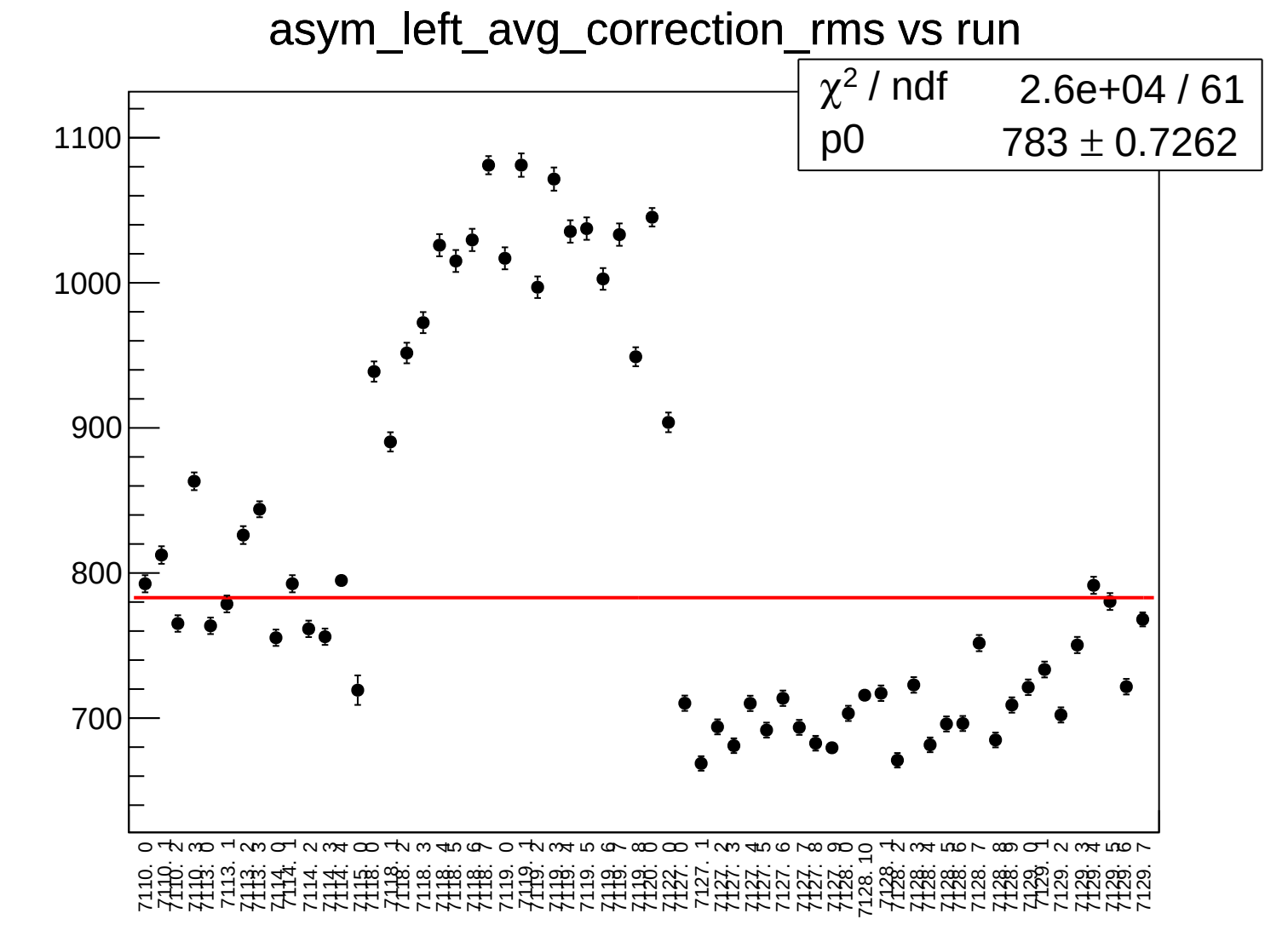

asym_dsr_rms vs run
χ^2 / ndf 172.7 / 61
p0 137.8 ± 0.1264
142
140
138
136
134
132
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 1
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

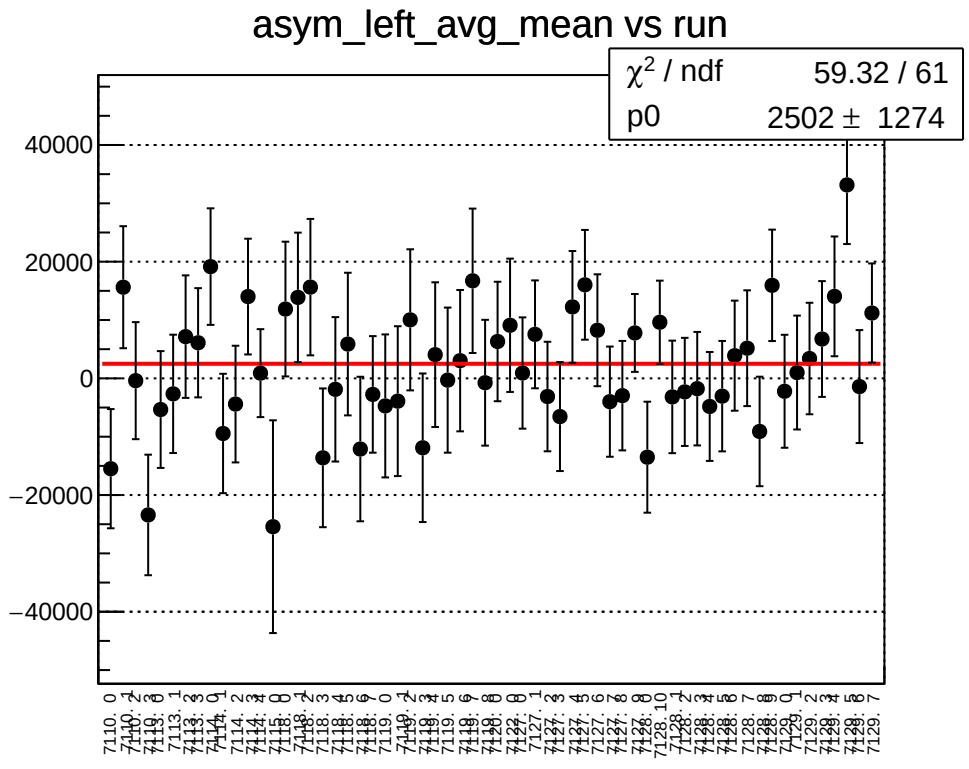

reg_asym_left_avg_mean vs run
χ² / ndf 43.51 / 61
p0 1082 ± 733.4
pull
Entries 62
Mean −34.13
Std Dev 70.85

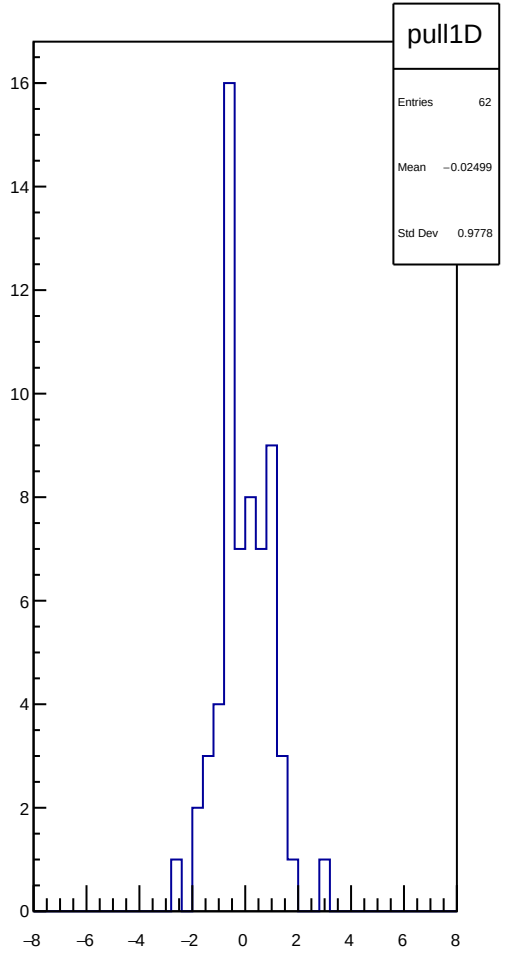

pull1D
Entries 62
Mean −0.03263
Std Dev 0.837

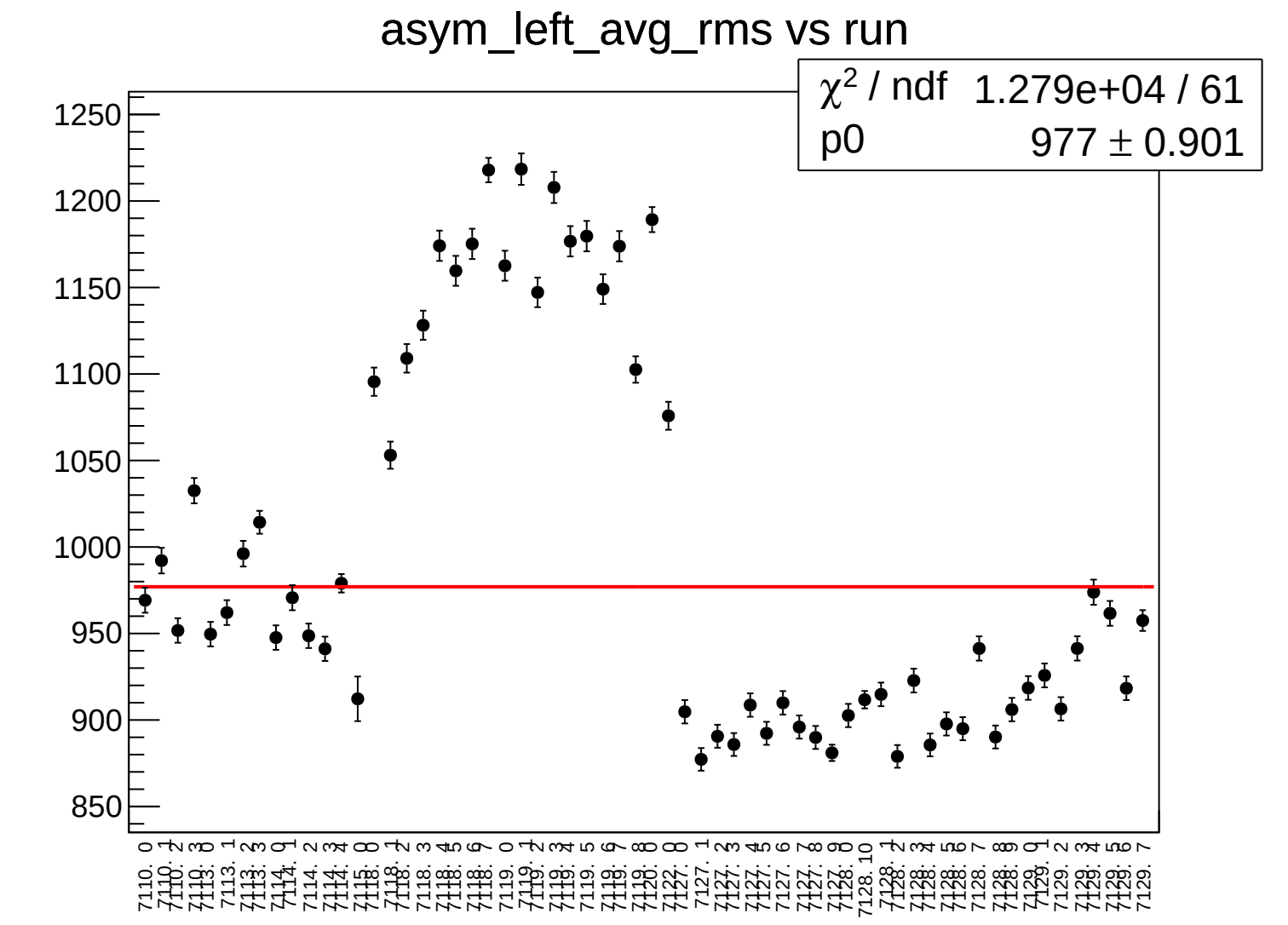

reg_asym_left_avg_rms vs run
χ² / ndf 83.59 / 61
p0 565.3 ± 0.5186
590
585
580
575
570
565
560
555
550

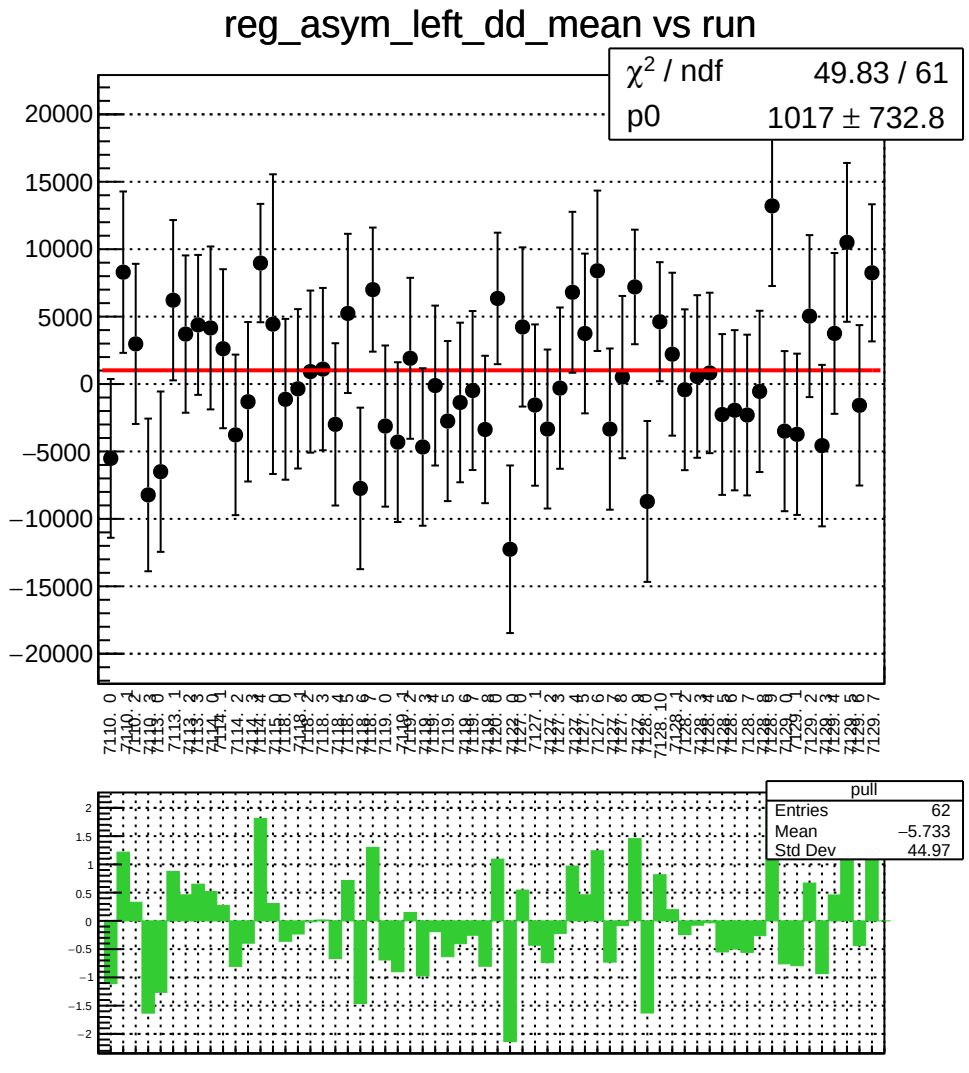

asym_left_avg_correction_mean vs run
χ² / ndf 62.08 / 61
p0 −1233 ± 1027
pull
Entries 62
Mean 1924
Std Dev 1894
pull1D
Entries 62
Mean −0.001553
Std Dev 1.001

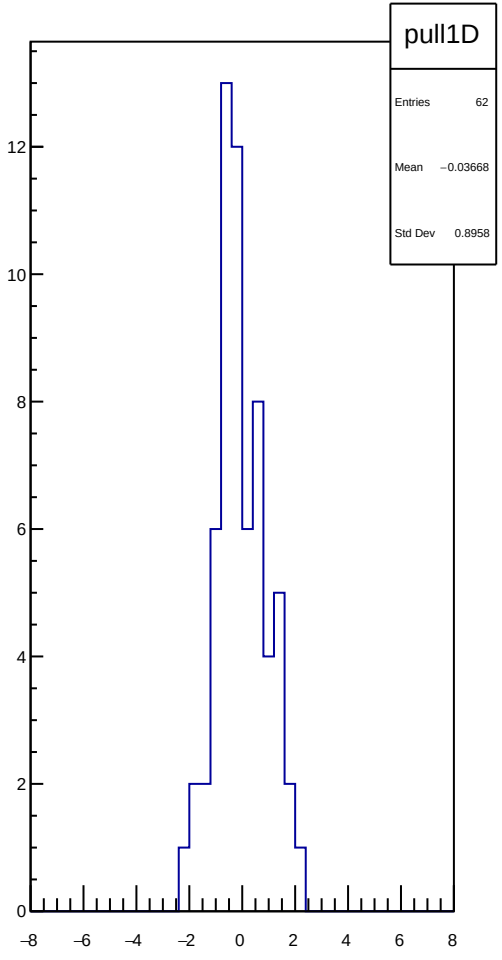

asym_left_avg_correction_rms vs run
χ² / ndf 2.6e+04 / 61
p0 783 ± 0.7262
1100
1000
900
800
700
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

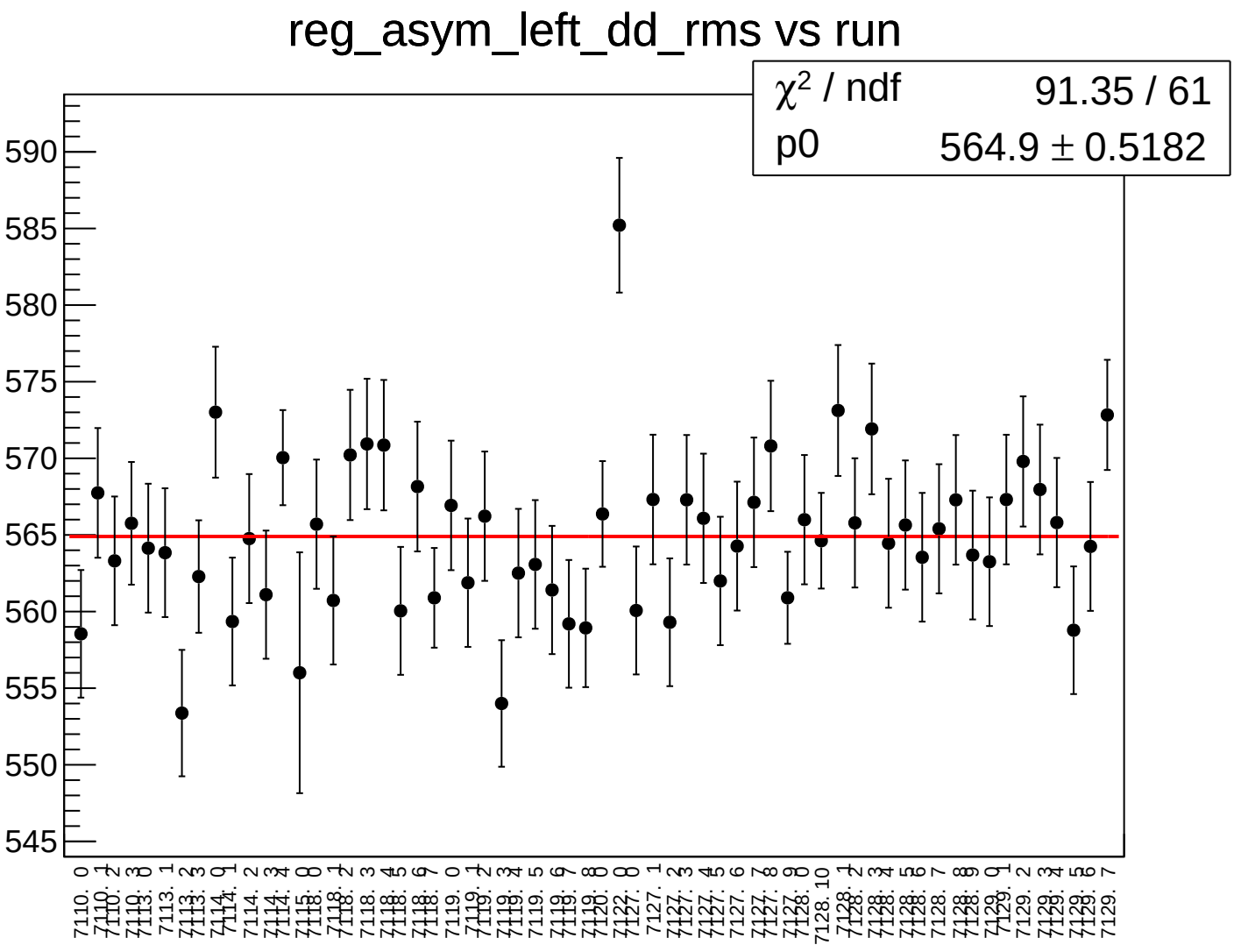

asym_left_avg_mean vs run
χ² / ndf 59.32 / 61
p0 2502 ± 1274
40000
20000
0
−20000
−40000
pull
Entries 62
Mean −113.7
Std Dev 145.8
3
2
1
0
−1
−2

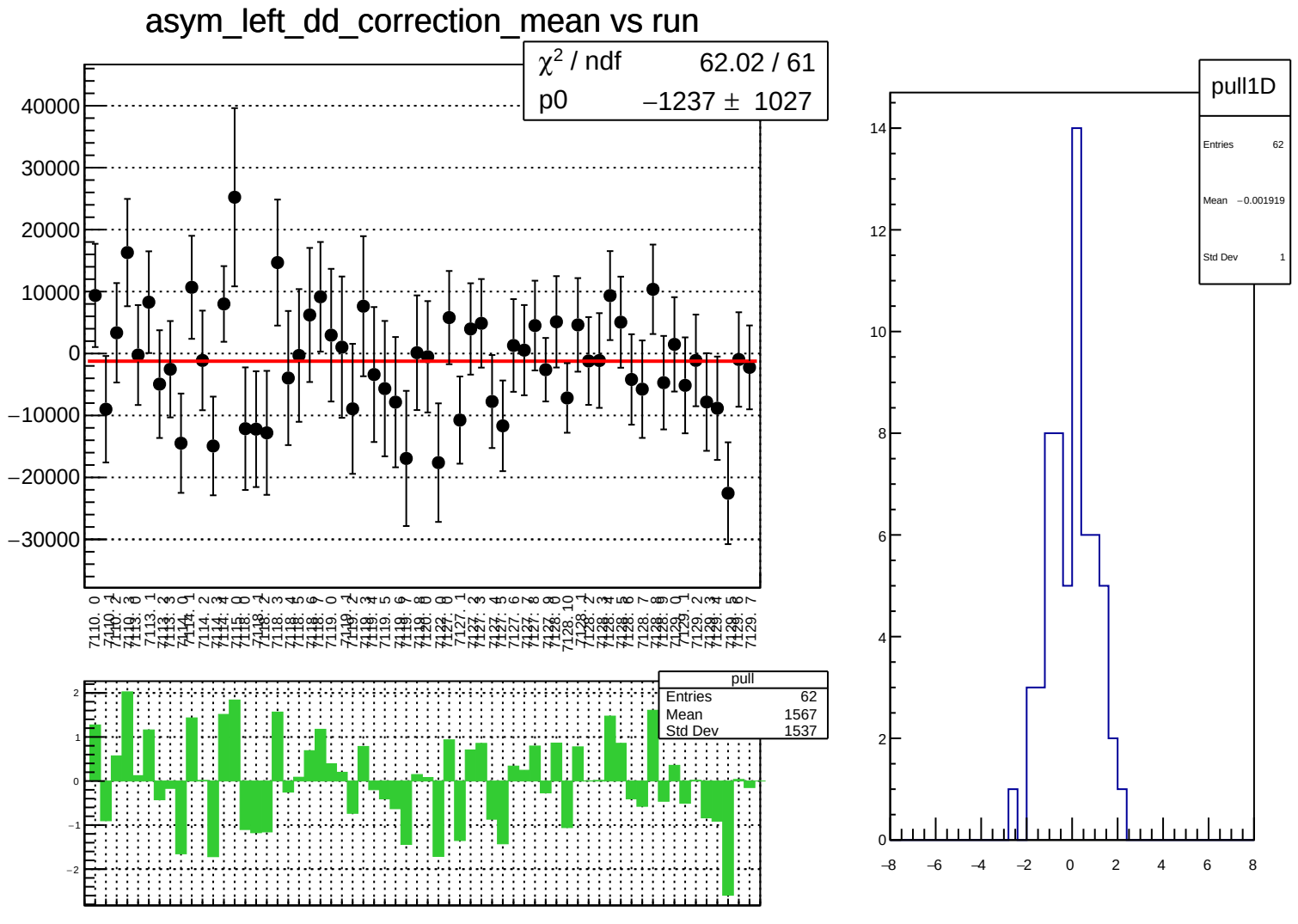

pull1D
Entries 62
Mean −0.02499
Std Dev 0.9778
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

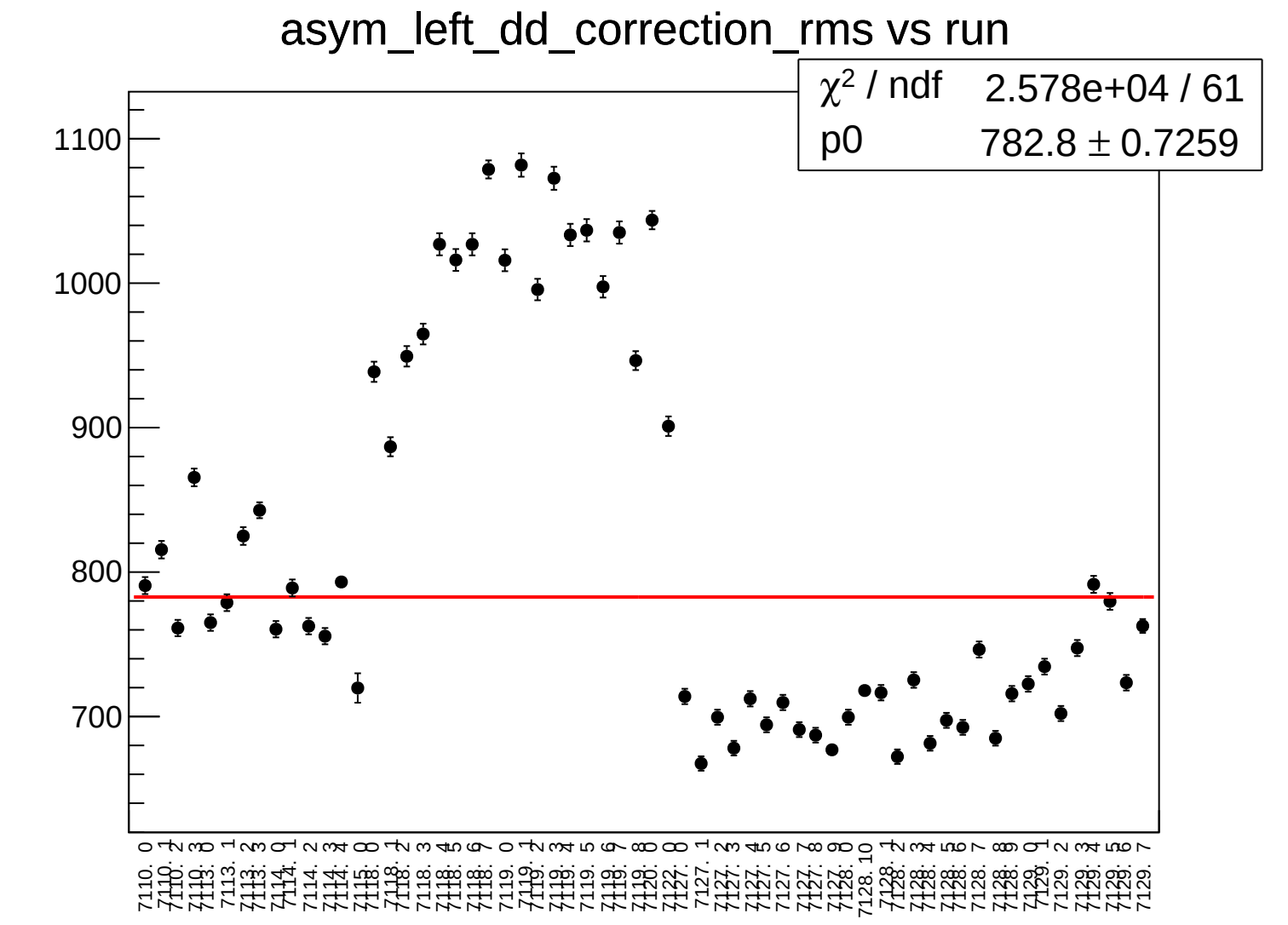

asym_left_avg_rms vs run
χ² / ndf 1.279e+04 / 61
p0 977 ± 0.901
1250
1200
1150
1100
1050
1000
950
900
850

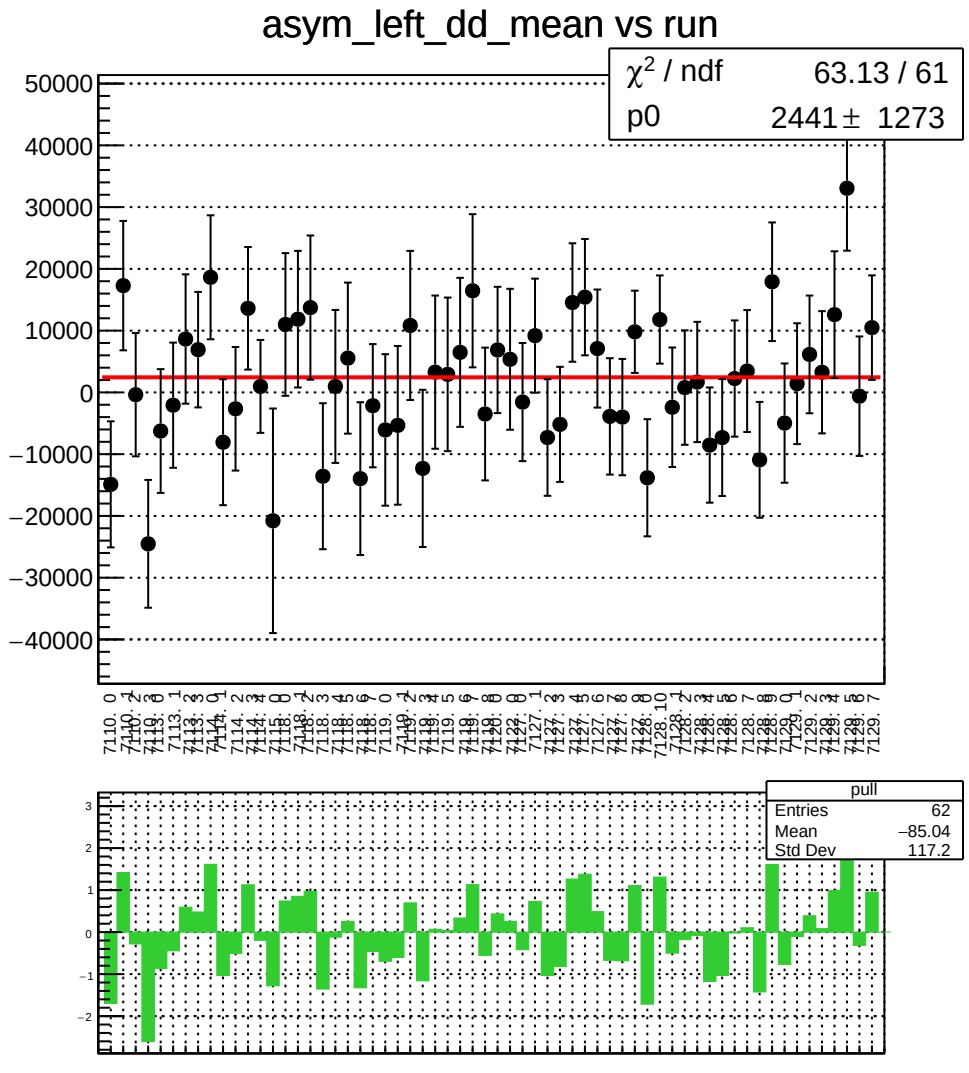

reg_asym_left_dd_mean vs run
χ² / ndf 49.83 / 61
p0 1017 ± 732.8
pull
Entries 62
Mean −5.733
Std Dev 44.97

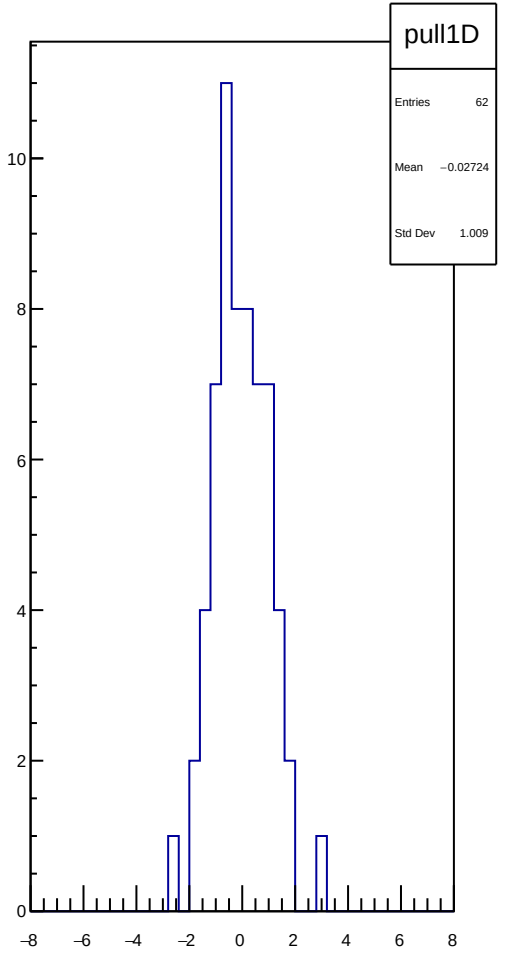

pull1D
Entries 62
Mean −0.03668
Std Dev 0.8958

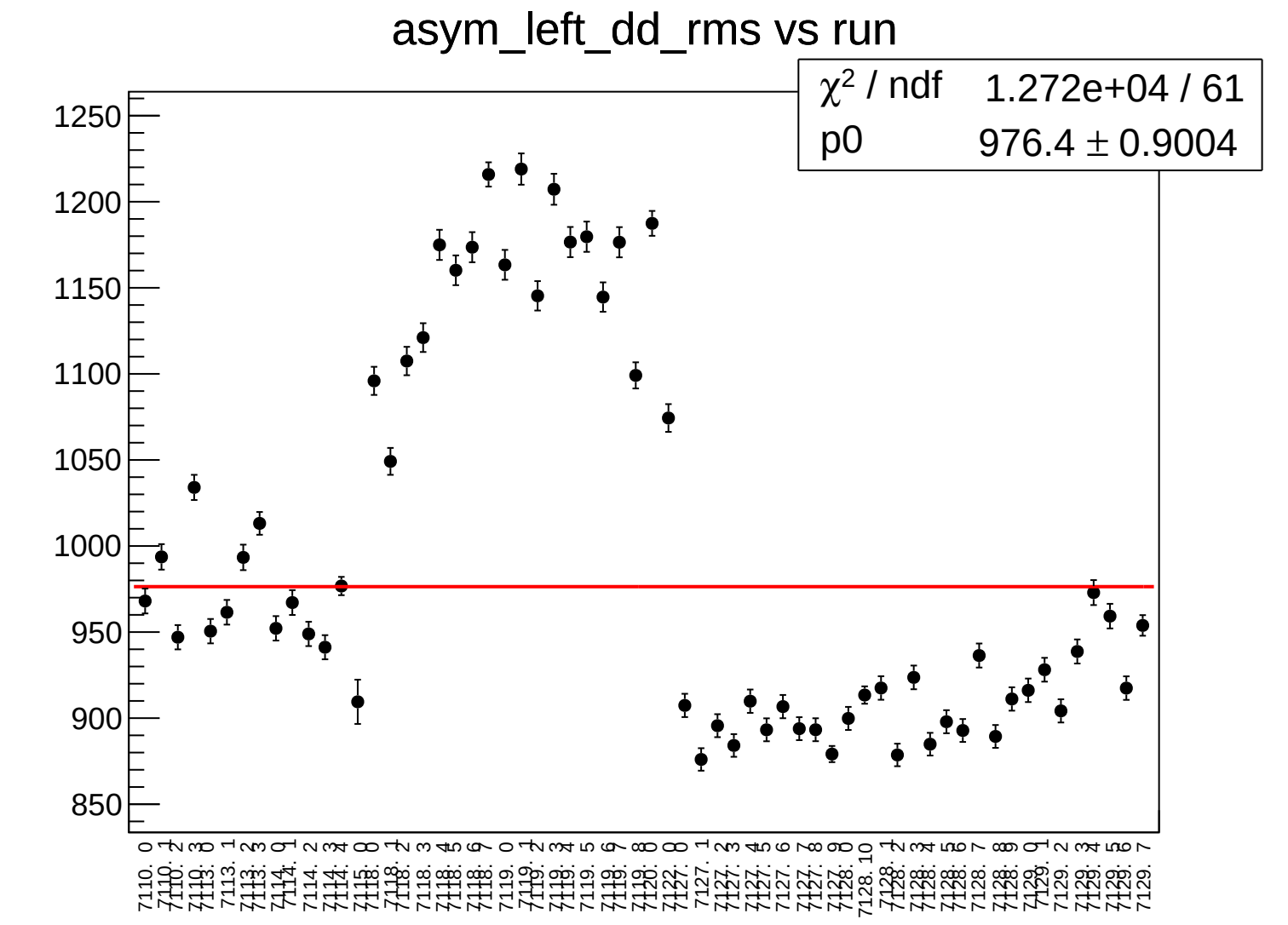

reg_asym_left_dd_rms vs run
χ² / ndf 91.35 / 61
p0 564.9 ± 0.5182
590
585
580
575
570
565
560
555
550
545
7110. 0
7110. 1
7110. 2
7110. 3
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

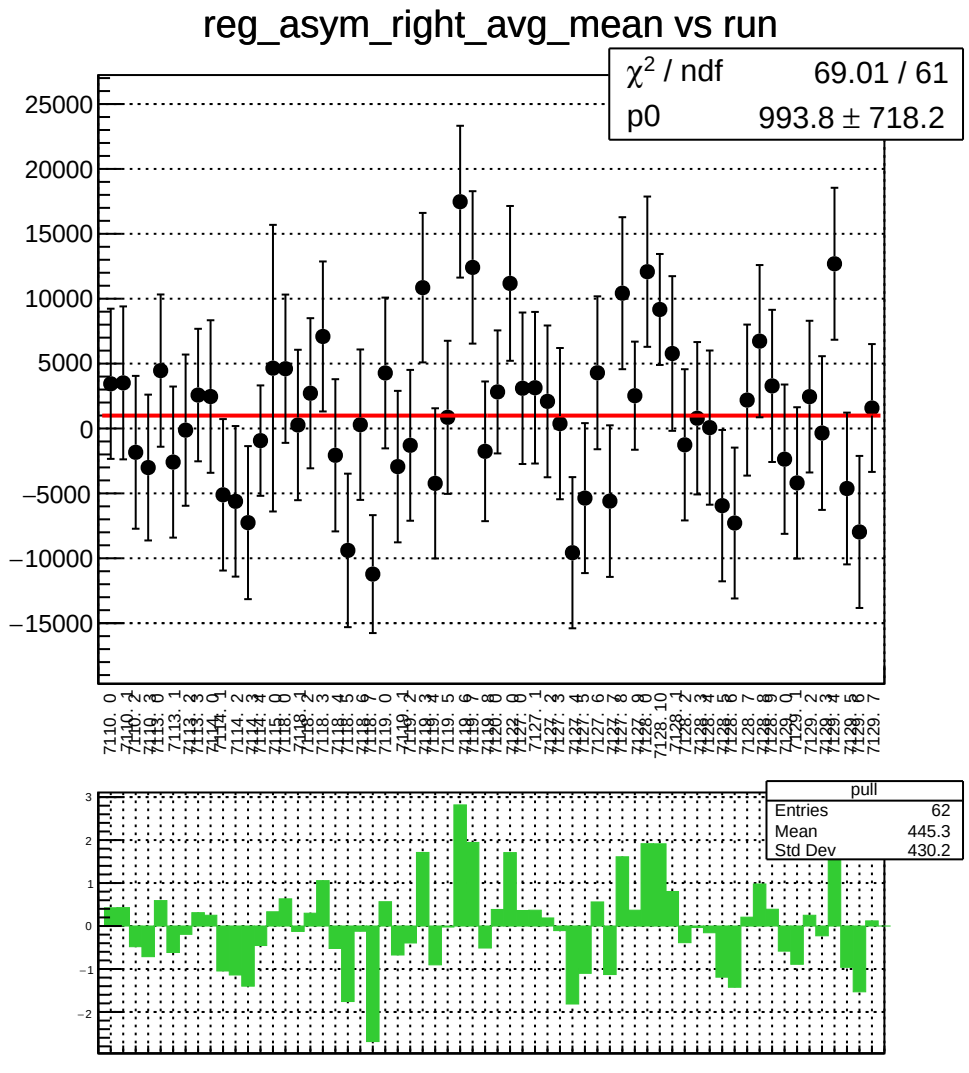

asym_left_dd_correction_mean vs run
χ² / ndf 62.02 / 61
p0 −1237 ± 1027
pull
Entries 62
Mean 1567
Std Dev 1537
pull1D
Entries 62
Mean −0.001919
Std Dev 1

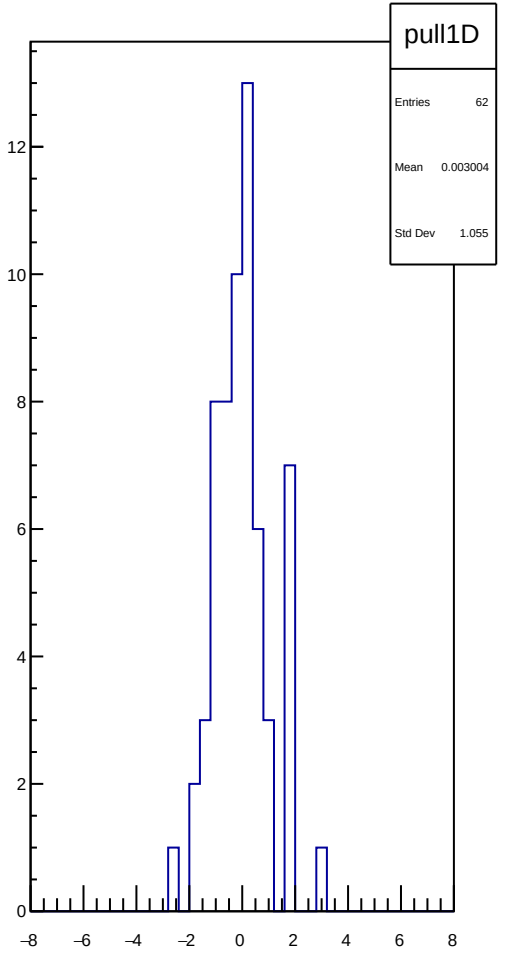

asym_left_dd_correction_rms vs run
χ² / ndf 2.578e+04 / 61
p0 782.8 ± 0.7259
1100
1000
900
800
700

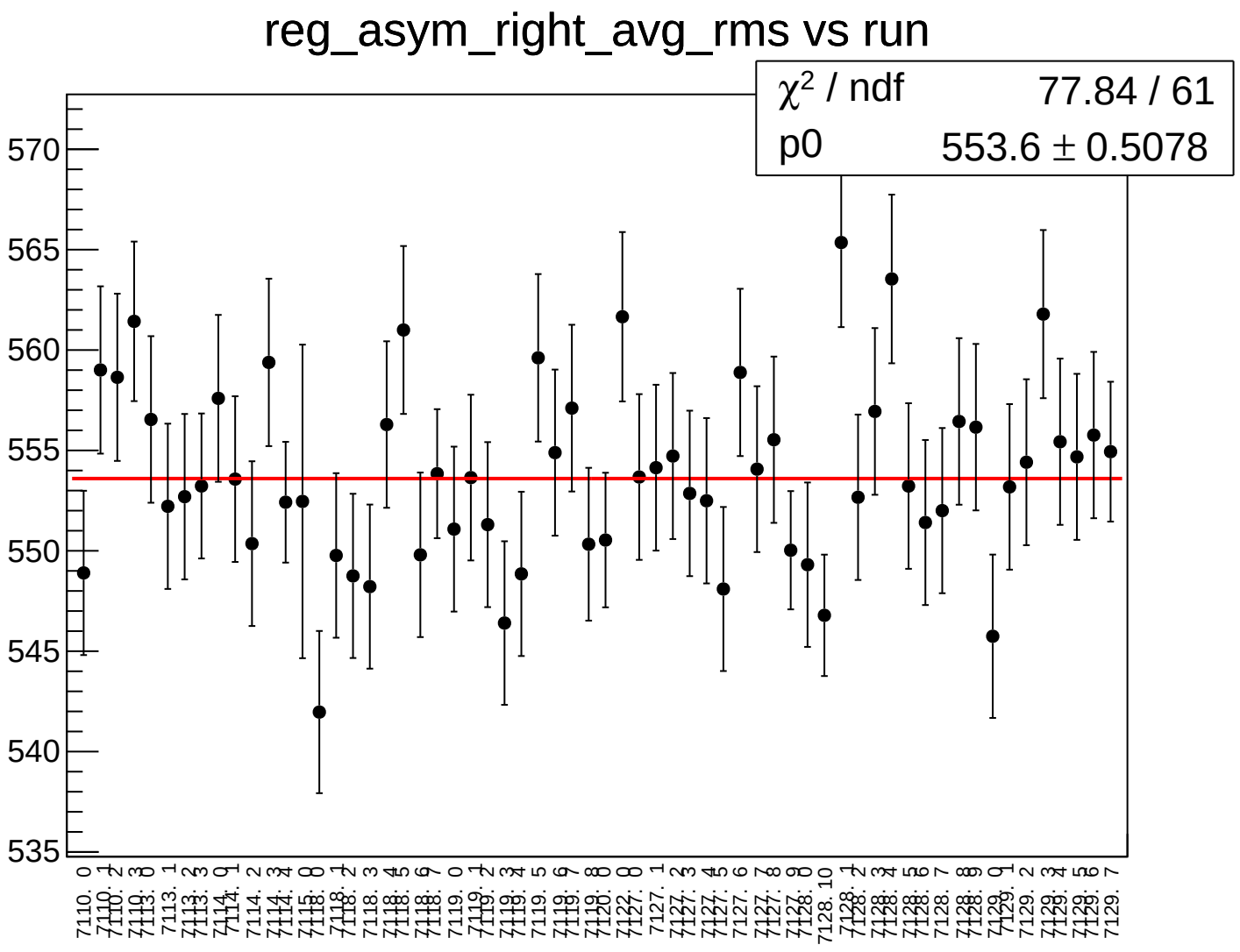

asym_left_dd_mean vs run
χ² / ndf 63.13 / 61
p0 2441 ± 1273
pull
Entries 62
Mean −85.04
Std Dev 117.2

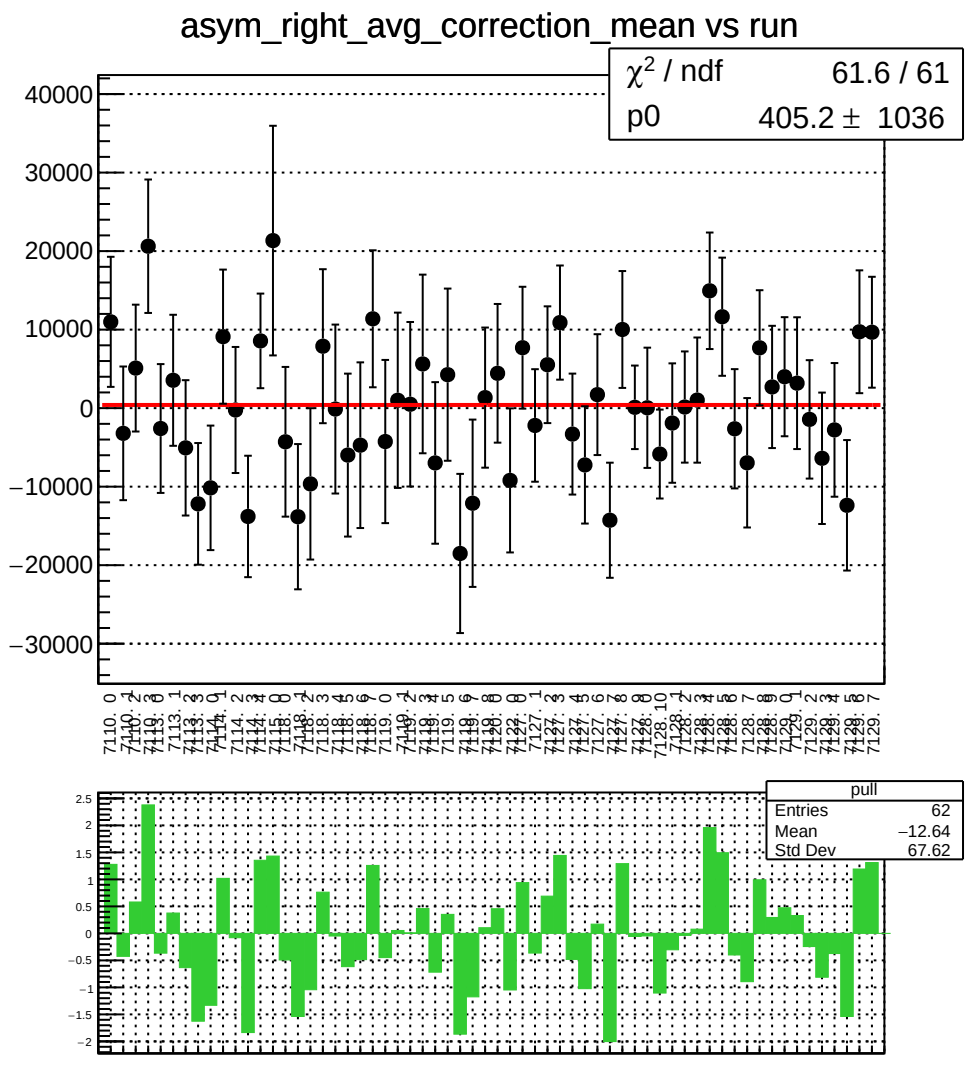

pull1D
Entries 62
Mean −0.02724
Std Dev 1.009

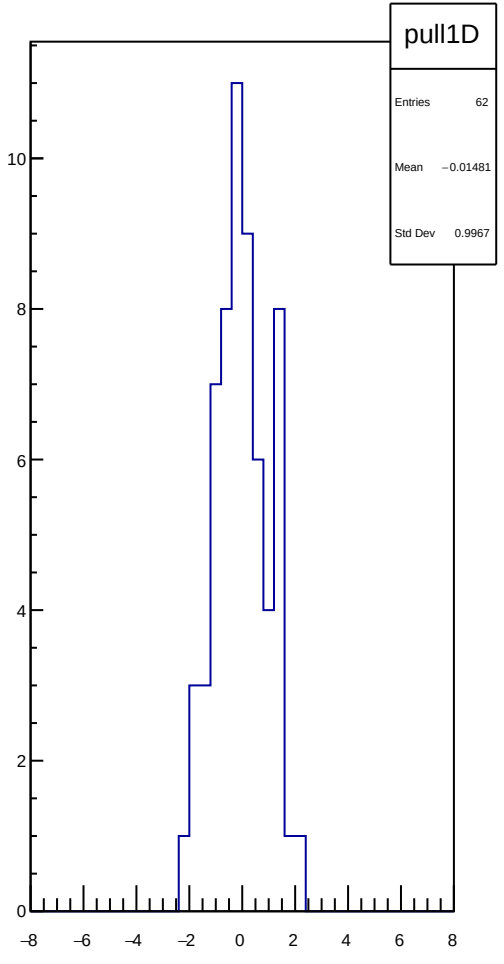

asym_left_dd_rms vs run
χ² / ndf 1.272e+04 / 61
p0 976.4 ± 0.9004
1250
1200
1150
1100
1050
1000
950
900
850
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

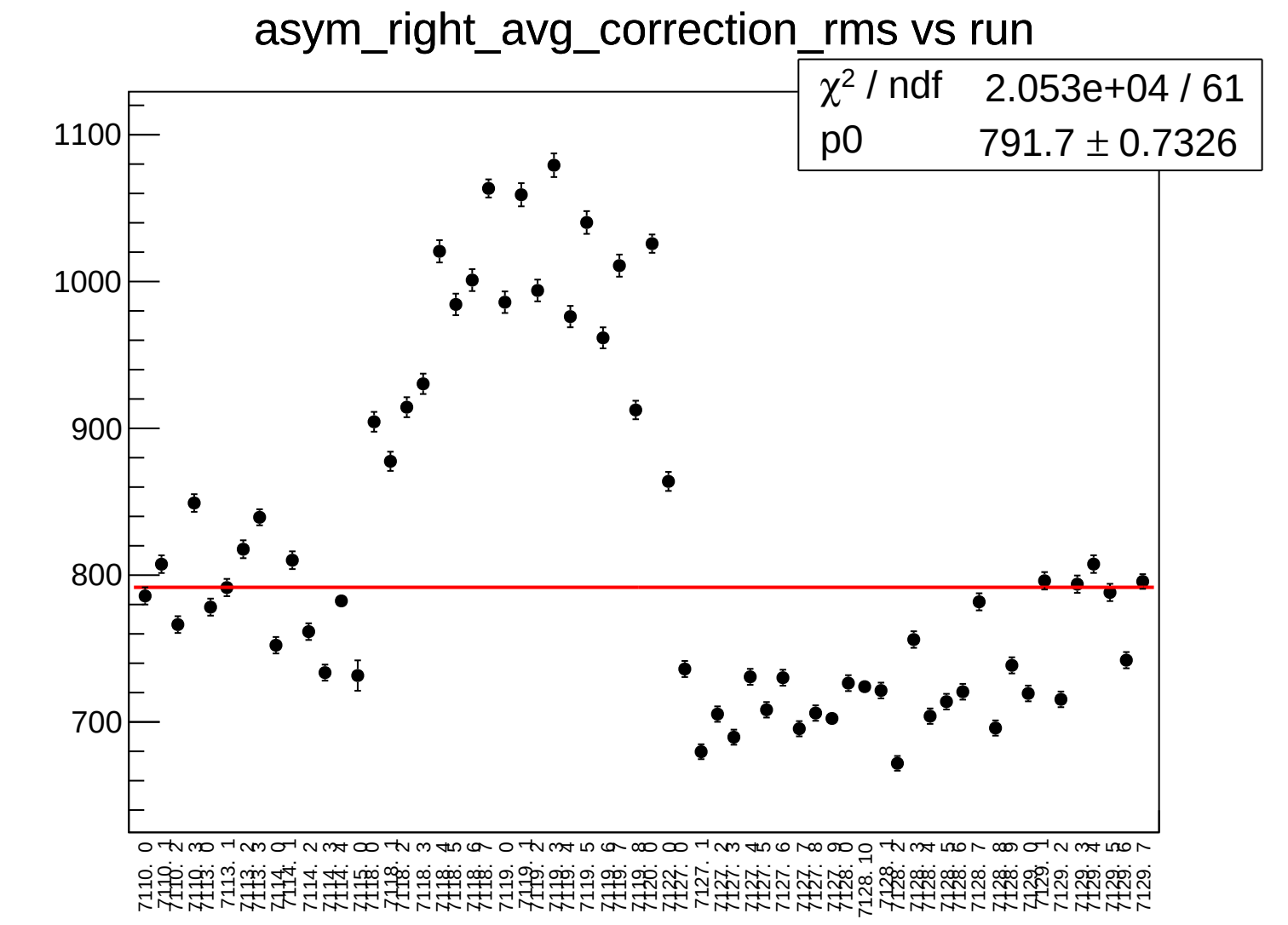

reg_asym_right_avg_mean vs run
χ^2 / ndf 69.01 / 61
p0 993.8 ± 718.2
pull
Entries 62
Mean 445.3
Std Dev 430.2

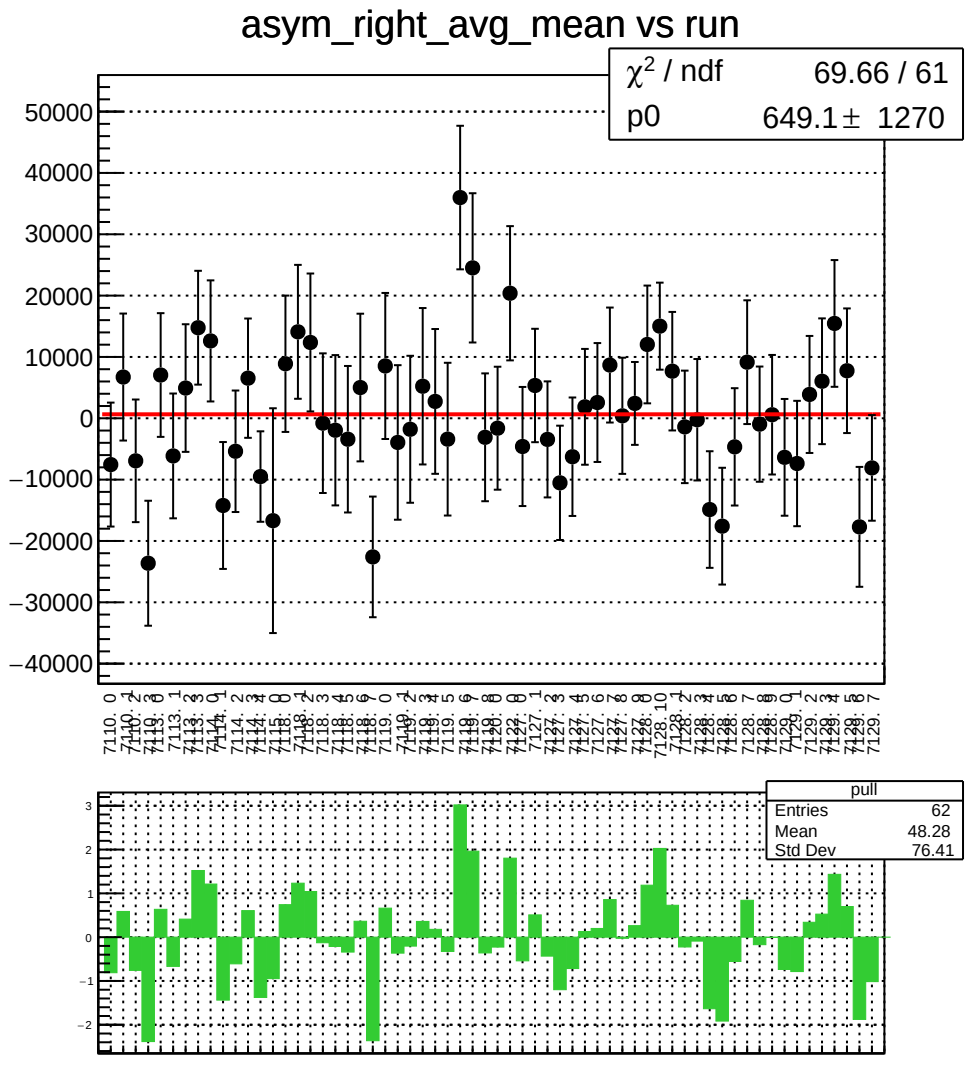

pull1D
Entries 62
Mean 0.003004
Std Dev 1.055

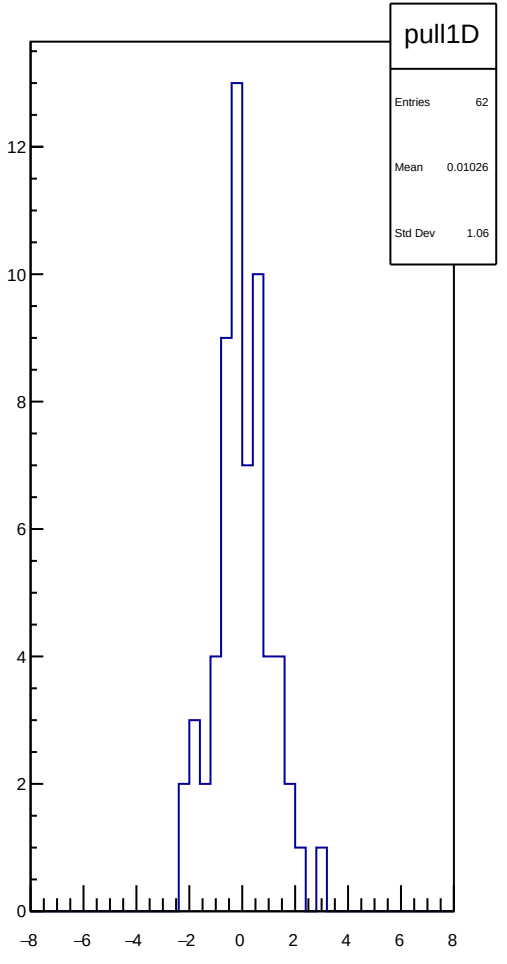

reg_asym_right_avg_rms vs run
χ² / ndf 77.84 / 61
p0 553.6 ± 0.5078
570
565
560
555
550
545
540
535

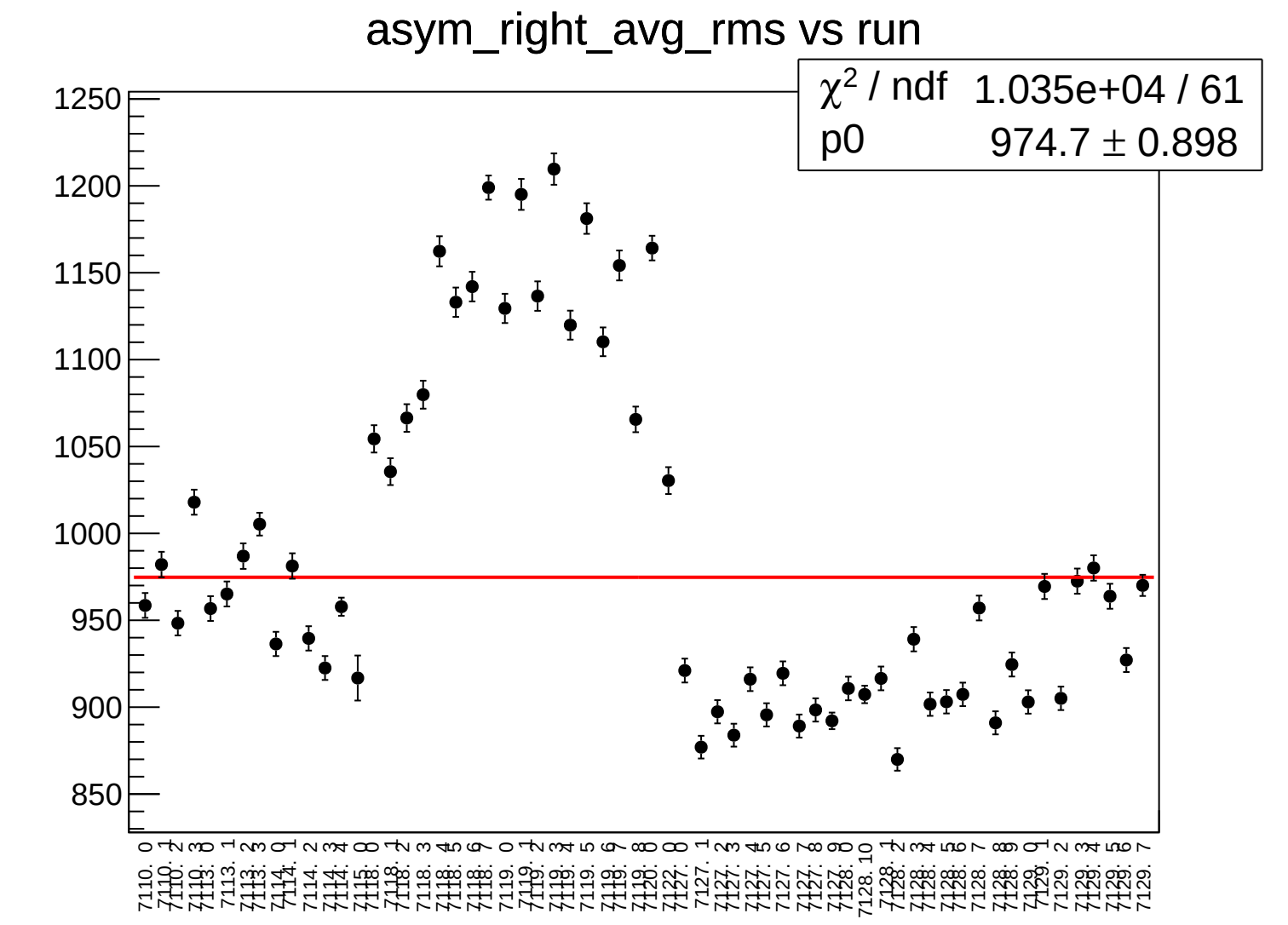

asym_right_avg_correction_mean vs run
χ² / ndf 61.6 / 61
p0 405.2 ± 1036
pull
Entries 62
Mean −12.64
Std Dev 67.62

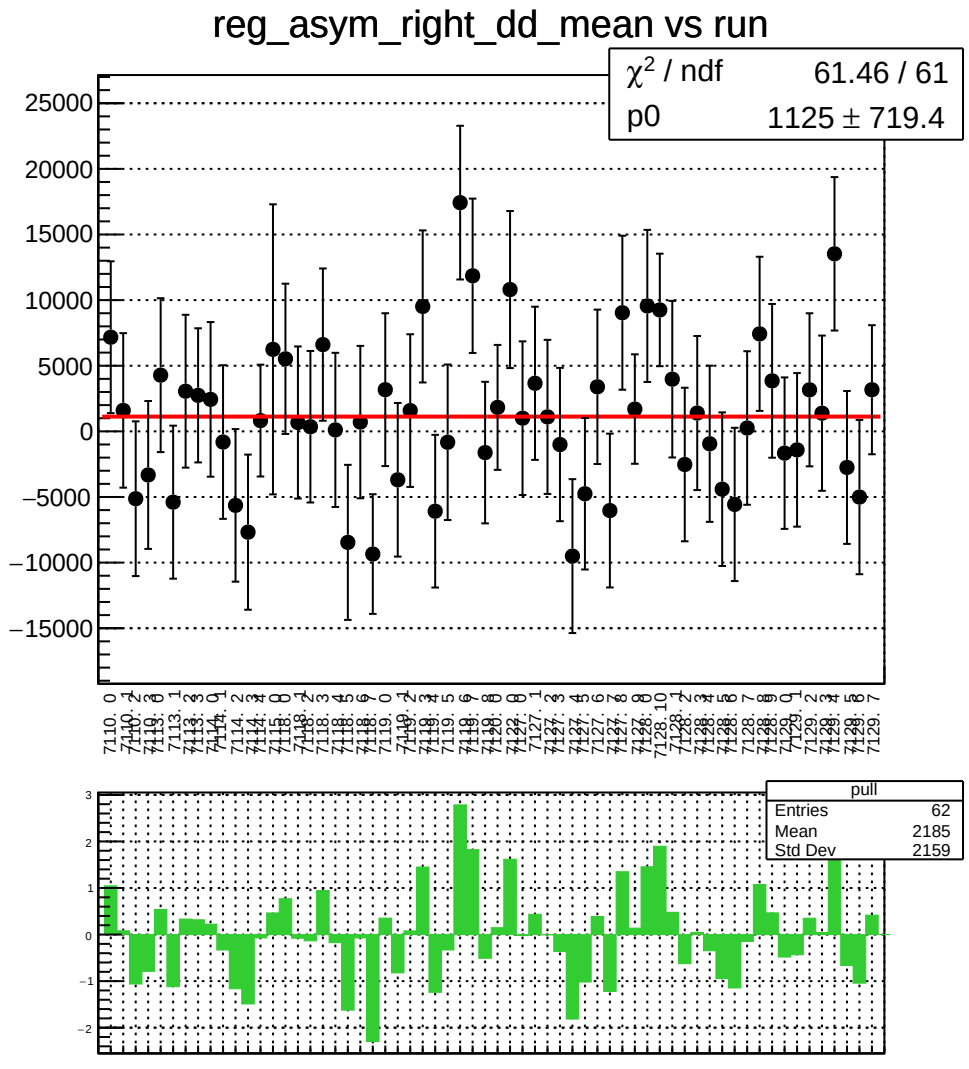

pull1D
Entries 62
Mean −0.01481
Std Dev 0.9967

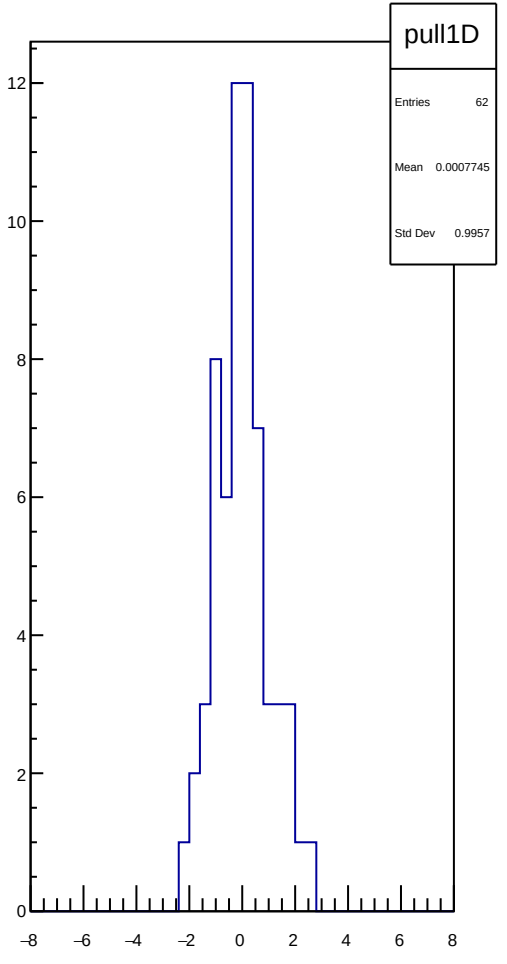

asym_right_avg_correction_rms vs run
χ² / ndf 2.053e+04 / 61
p0 791.7 ± 0.7326
1100
1000
900
800
700
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

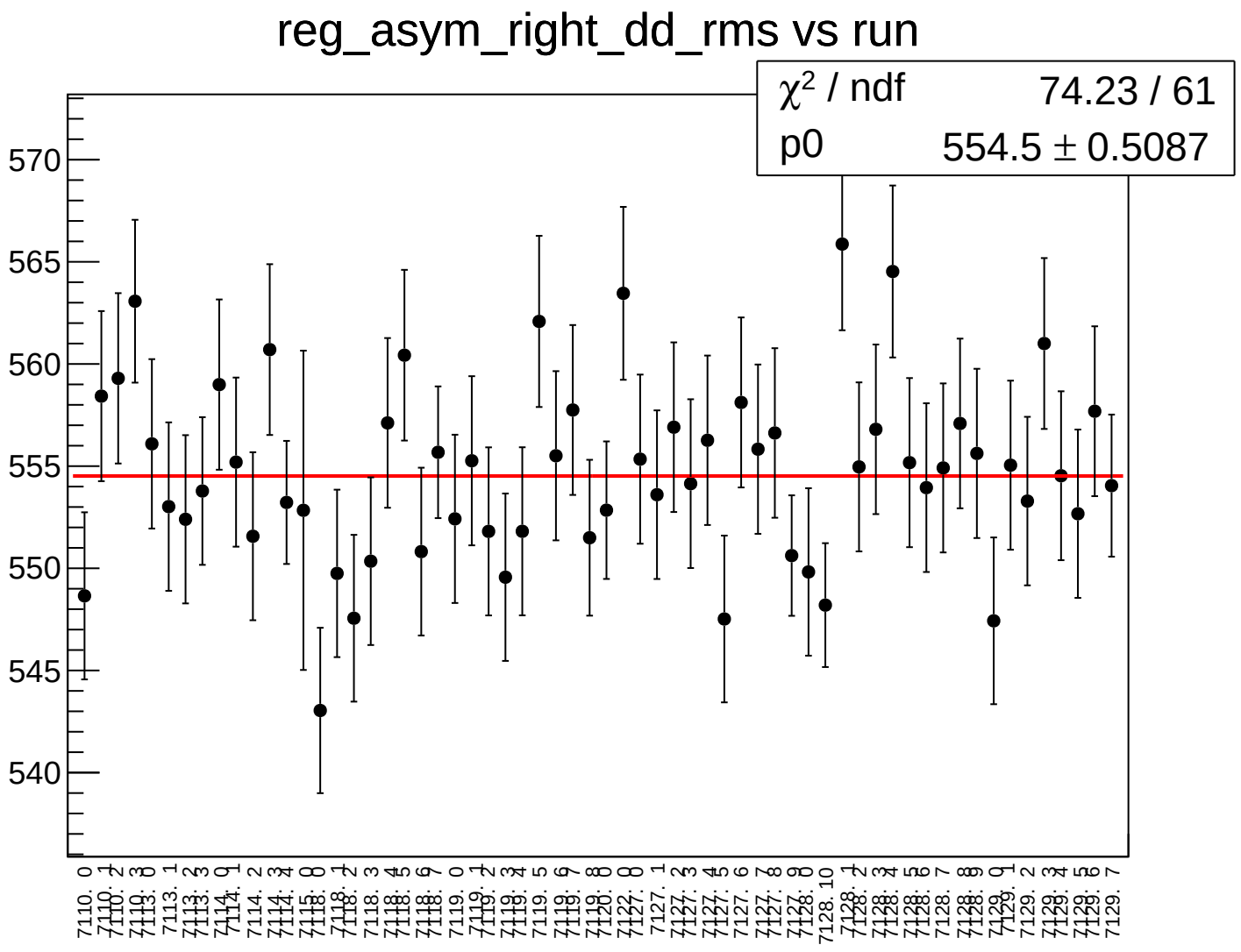

asym_right_avg_mean vs run
χ² / ndf 69.66 / 61
p0 649.1 ± 1270
pull
Entries 62
Mean 48.28
Std Dev 76.41

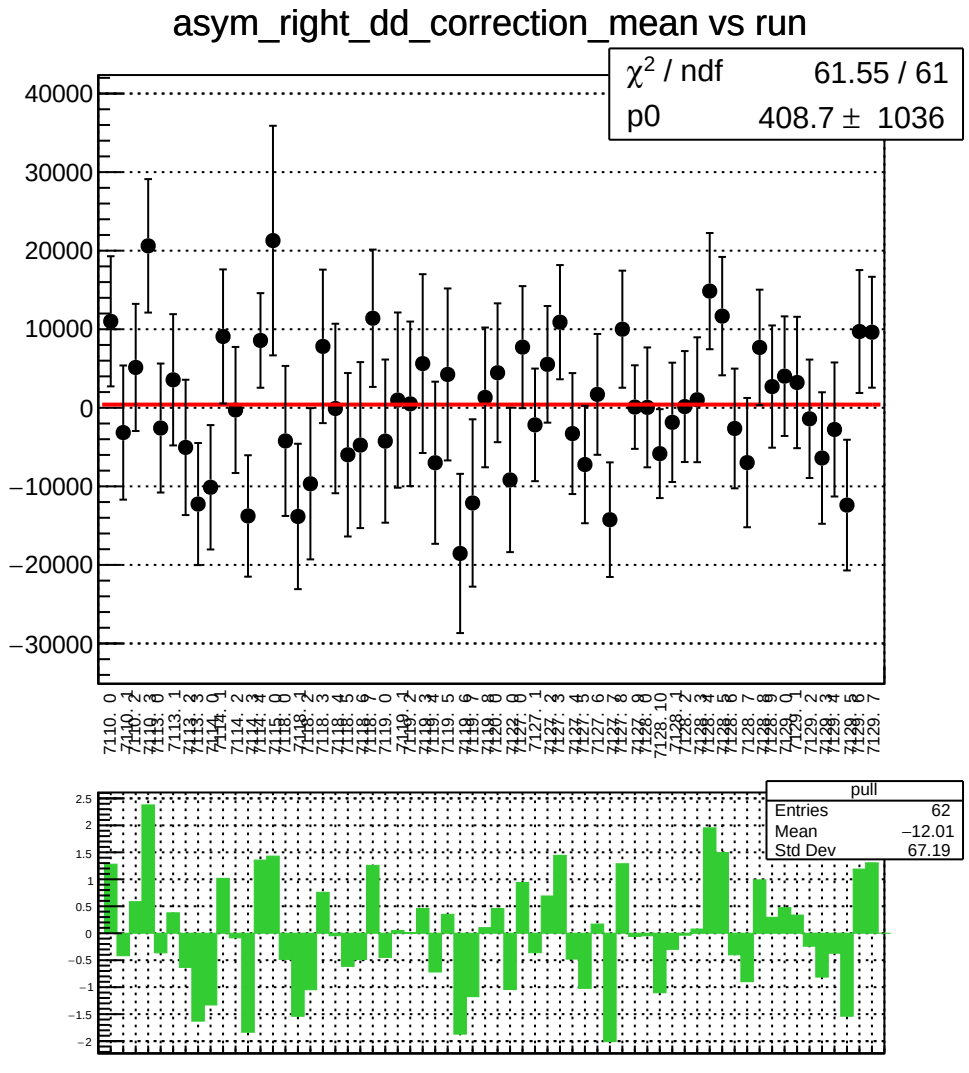

pull1D
Entries 62
Mean 0.01026
Std Dev 1.06

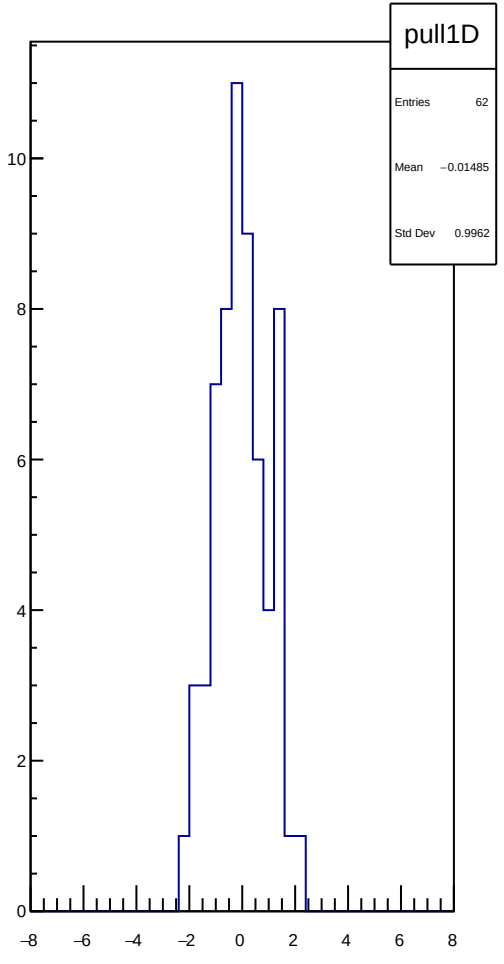

asym_right_avg_rms vs run
χ² / ndf 1.035e+04 / 61
p0 974.7 ± 0.898
1250
1200
1150
1100
1050
1000
950
900
850

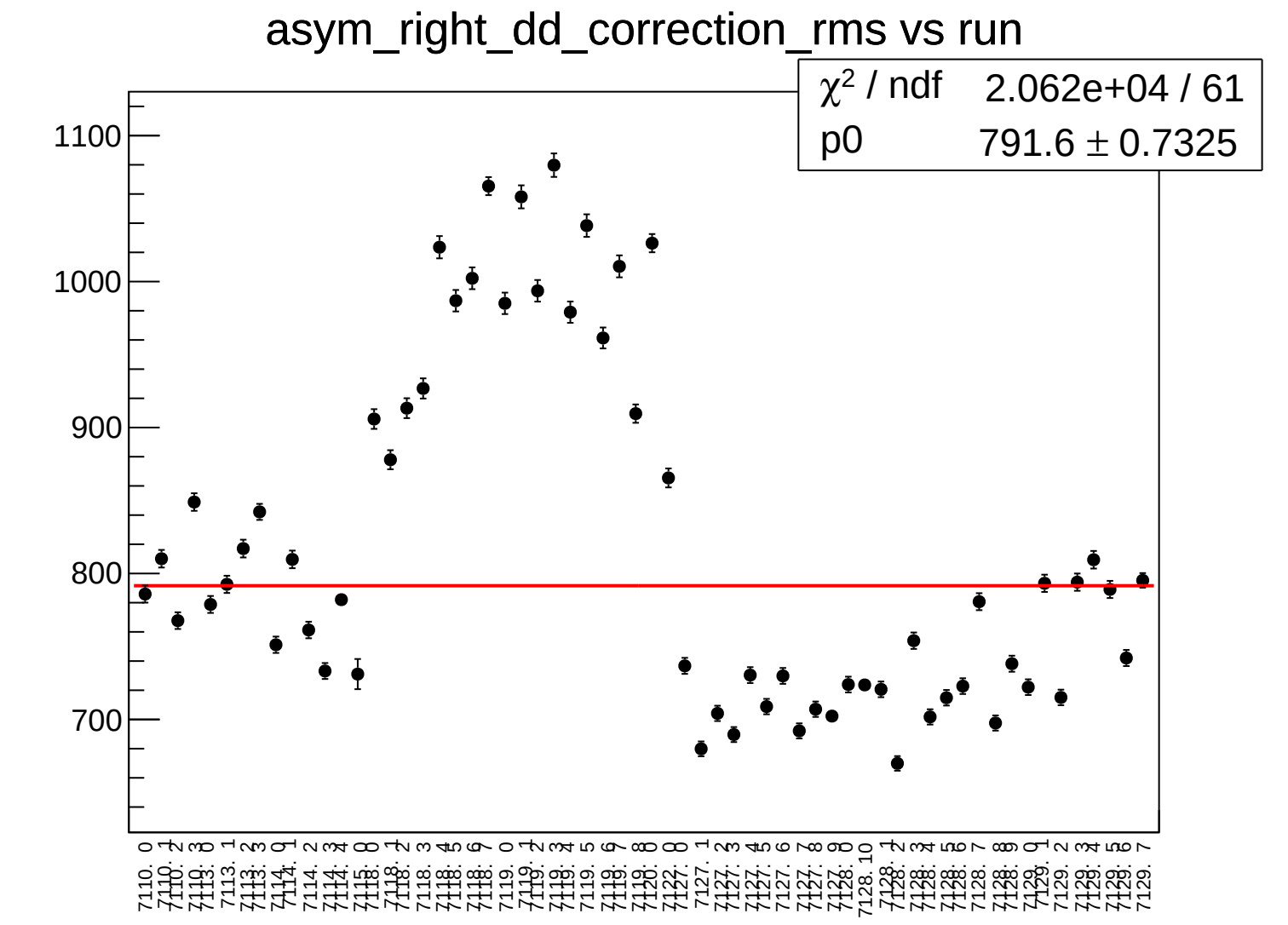

reg_asym_right_dd_mean vs run
χ² / ndf 61.46 / 61
p0 1125 ± 719.4
pull
Entries 62
Mean 2185
Std Dev 2159

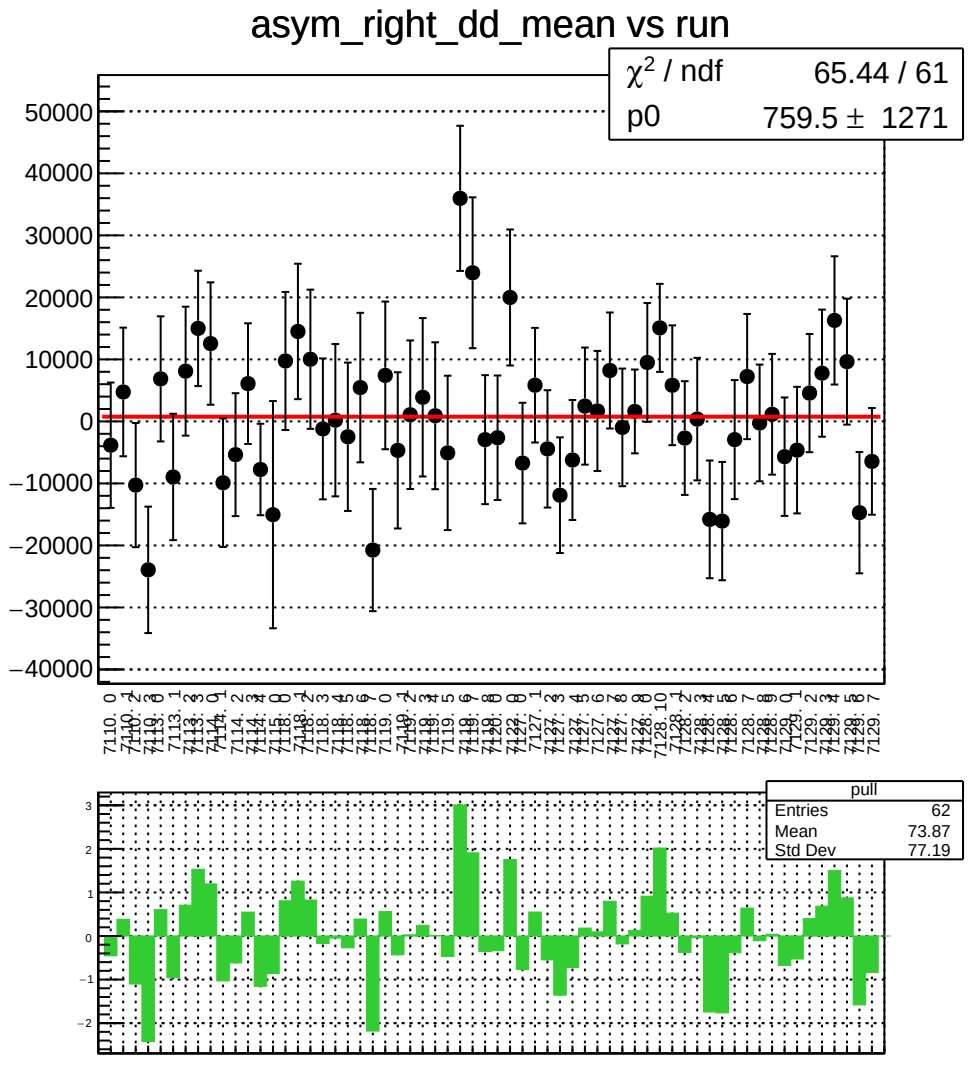

pull1D
Entries 62
Mean 0.0007745
Std Dev 0.9957

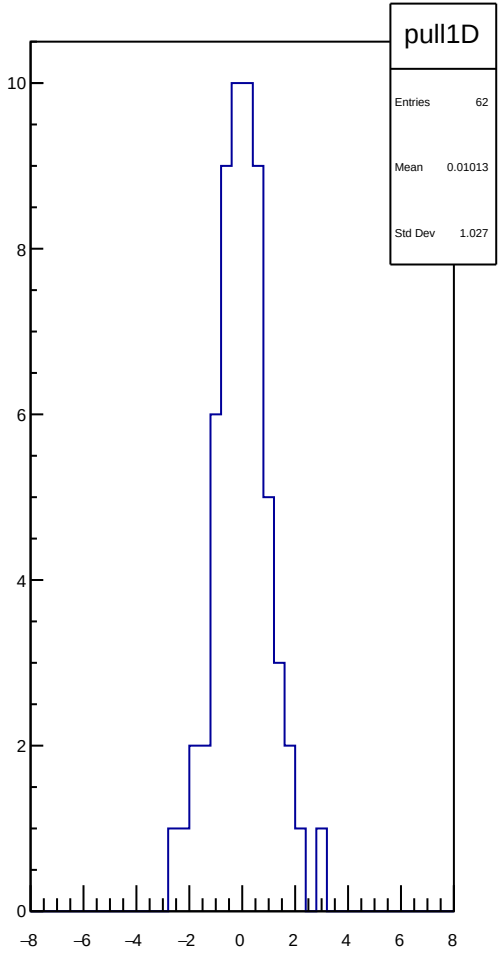

reg_asym_right_dd_rms vs run
χ² / ndf 74.23 / 61
p0 554.5 ± 0.5087
570
565
560
555
550
545
540
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

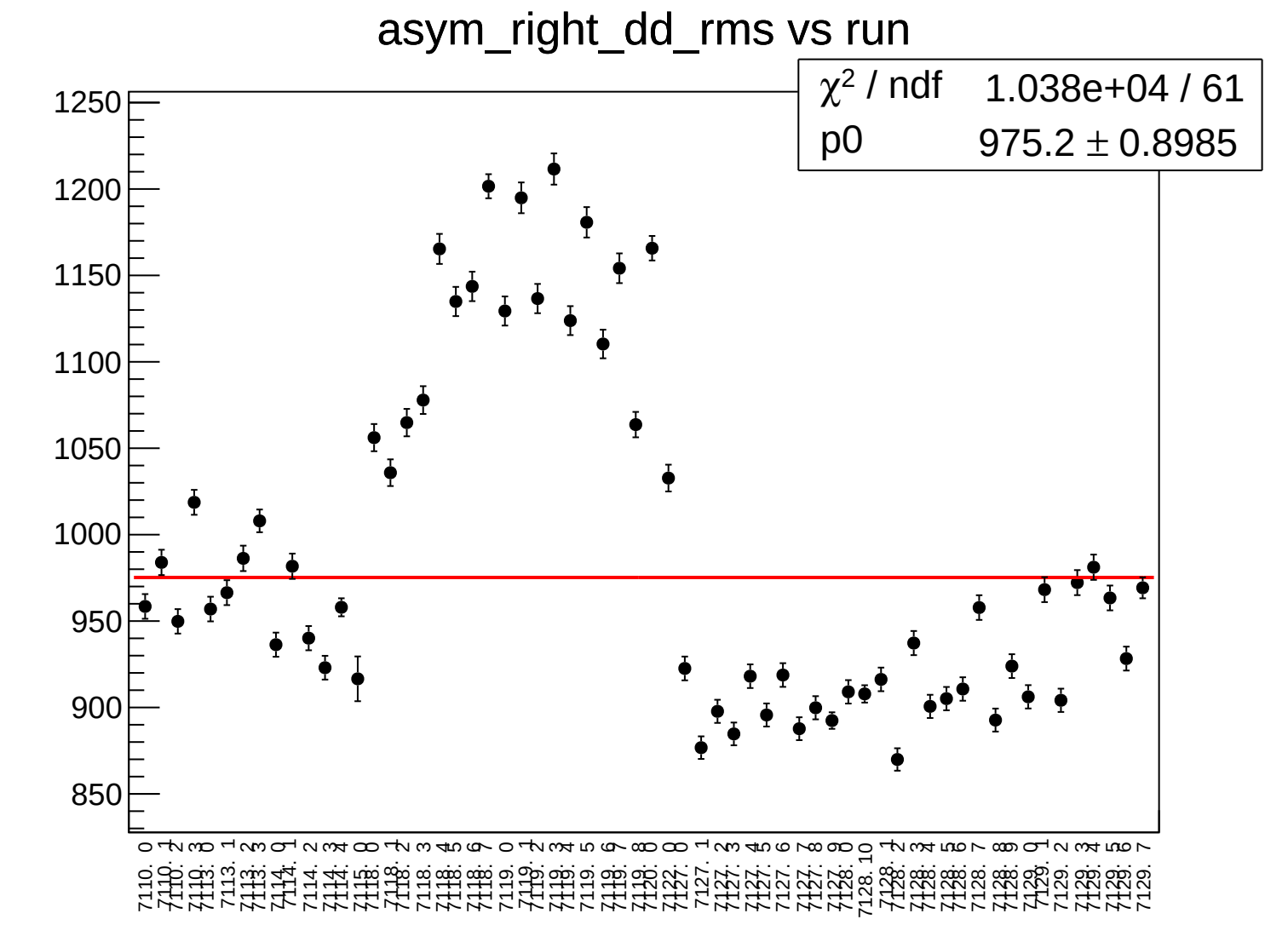

asym_right_dd_correction_mean vs run
χ² / ndf 61.55 / 61
p0 408.7 ± 1036
pull
Entries 62
Mean −12.01
Std Dev 67.19

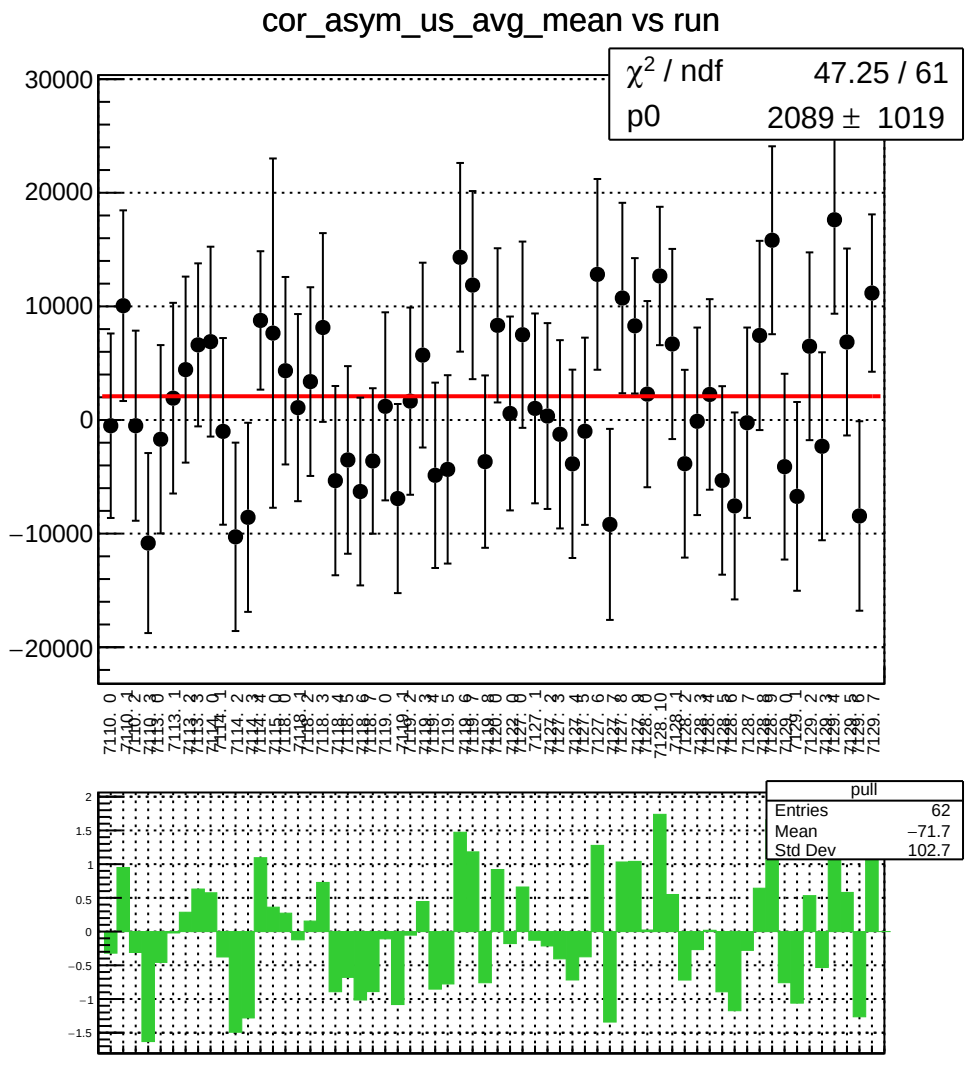

pull1D
Entries 62
Mean −0.01485
Std Dev 0.9962

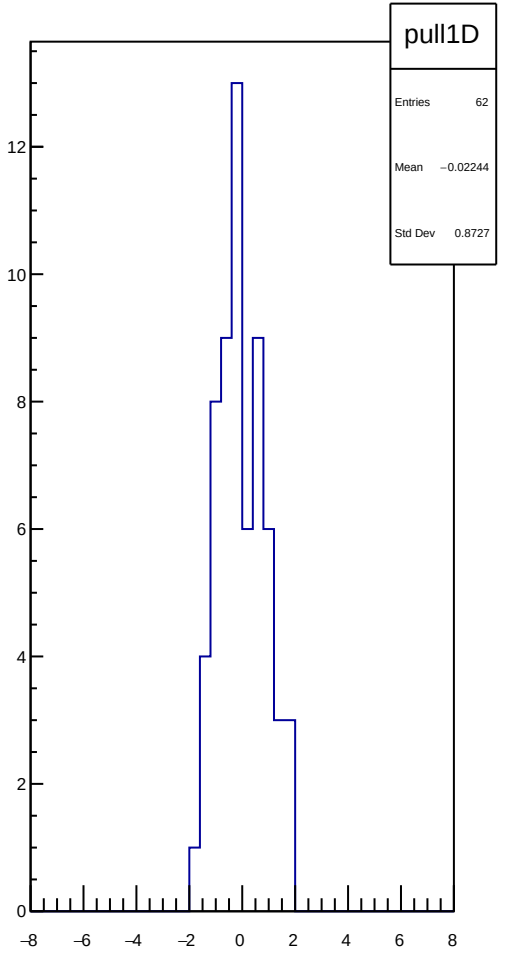

asym_right_dd_correction_rms vs run
χ² / ndf 2.062e+04 / 61
p0 791.6 ± 0.7325
1100
1000
900
800
700
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

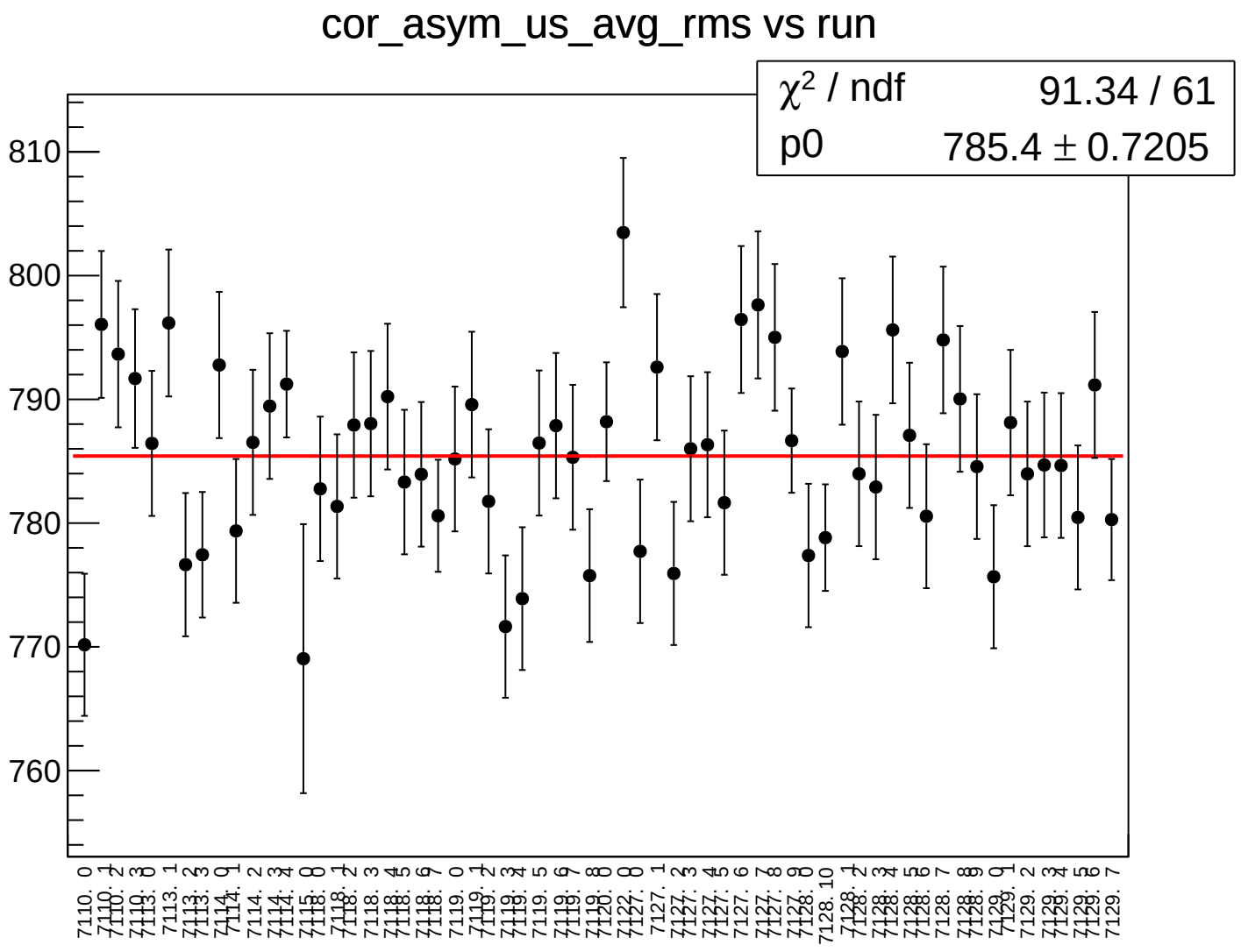

asym_right_dd_mean vs run
χ² / ndf 65.44 / 61
p0 759.5 ± 1271
pull
Entries 62
Mean 73.87
Std Dev 77.19

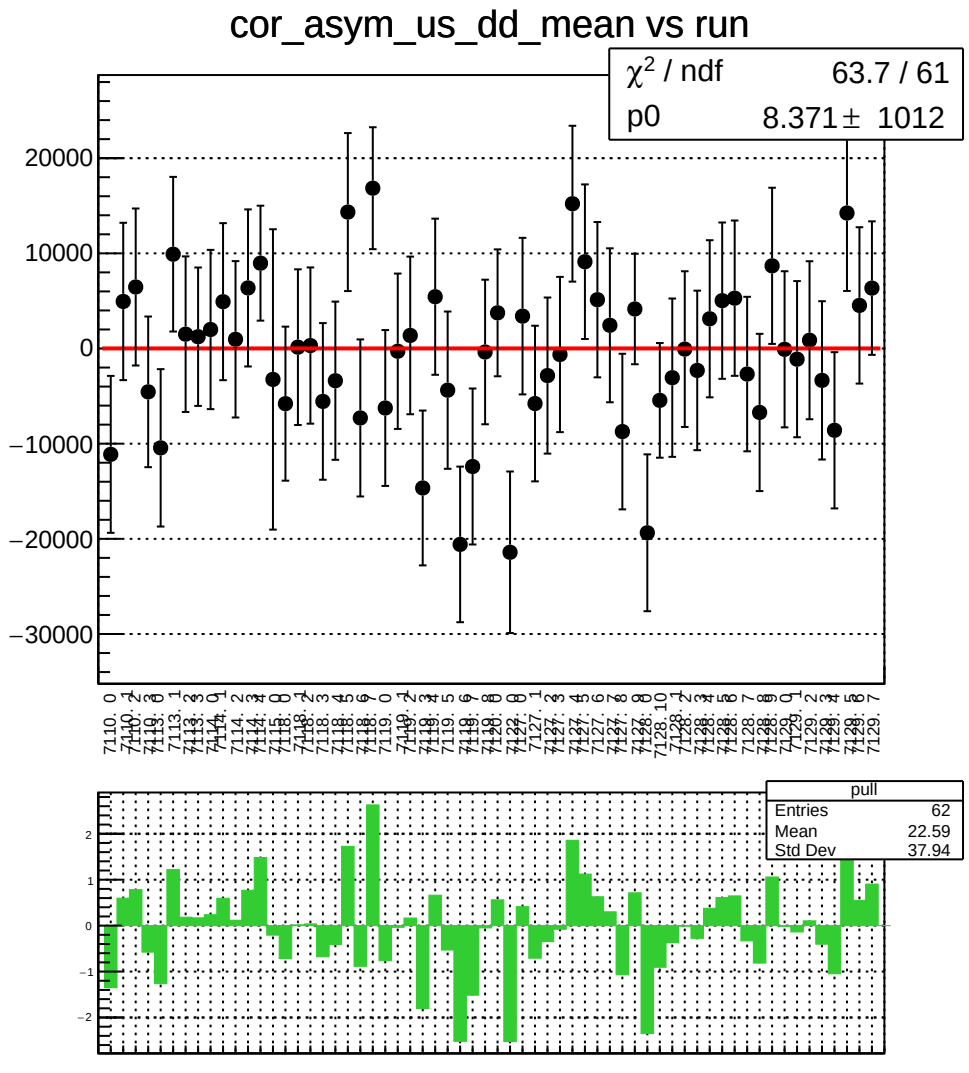

pull1D
Entries 62
Mean 0.01013
Std Dev 1.027

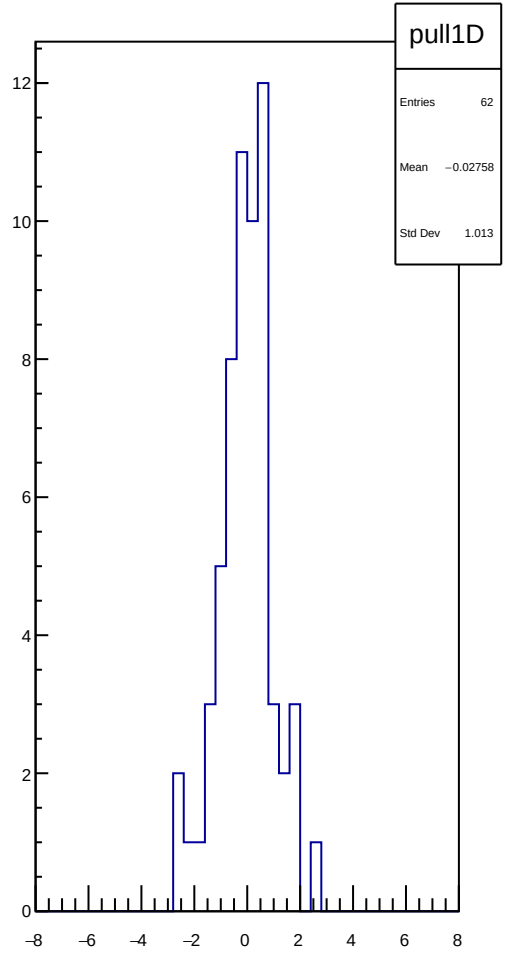

asym_right_dd_rms vs run
χ² / ndf 1.038e+04 / 61
p0 975.2 ± 0.8985
1250
1200
1150
1100
1050
1000
950
900
850

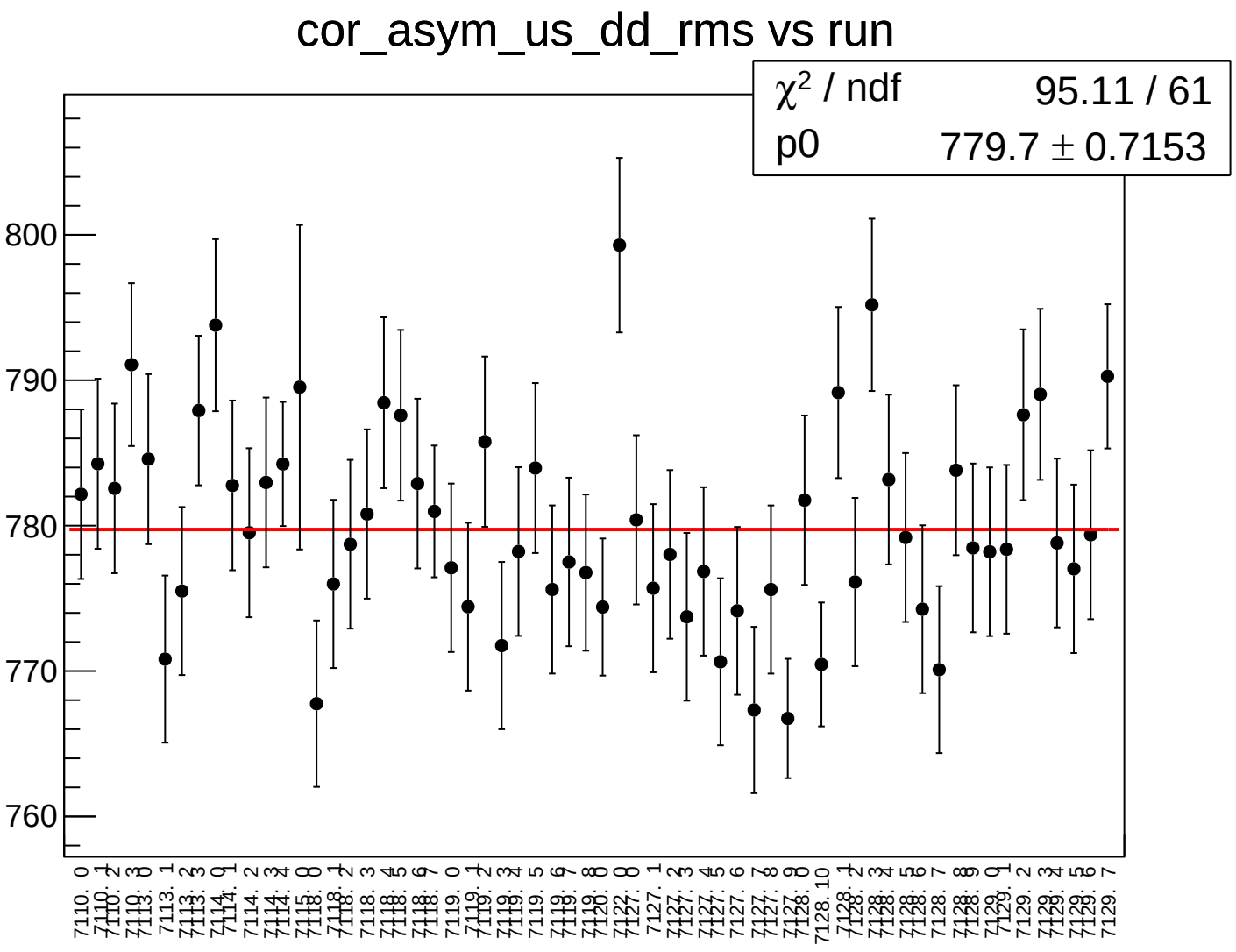

cor_asym_us_avg_mean vs run
χ² / ndf 47.25 / 61
p0 2089 ± 1019
pull
Entries 62
Mean −71.7
Std Dev 102.7

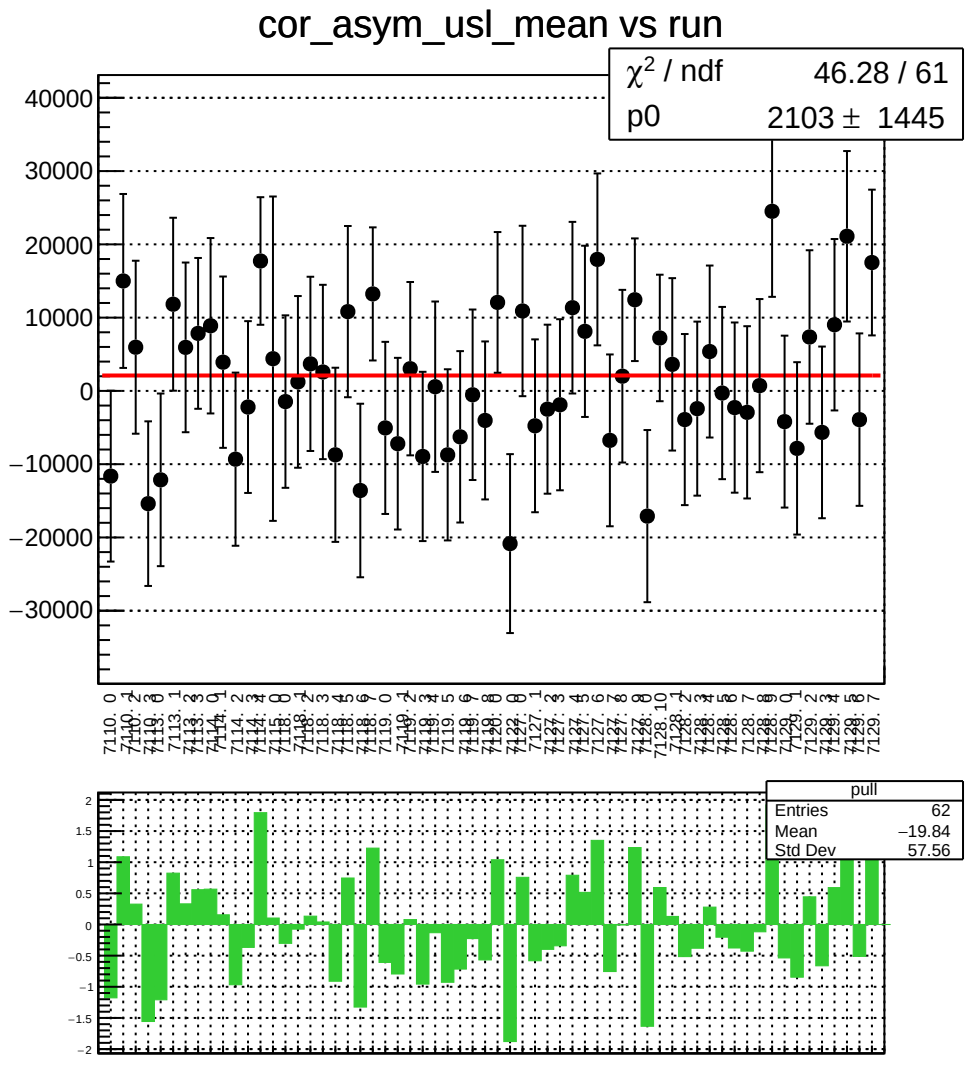

pull1D
Entries 62
Mean −0.02244
Std Dev 0.8727

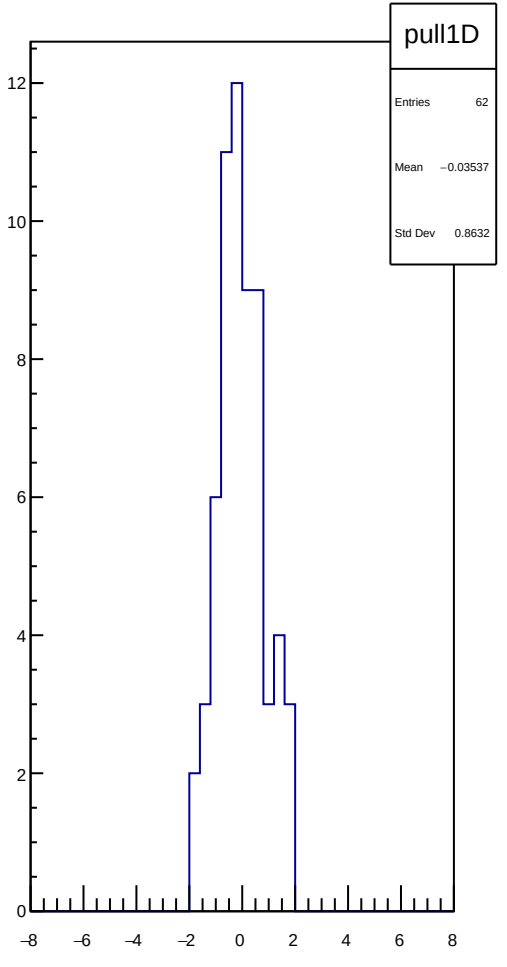

cor_asym_us_avg_rms vs run
χ^2 / ndf 91.34 / 61
p0 785.4 ± 0.7205
810
800
790
780
770
760

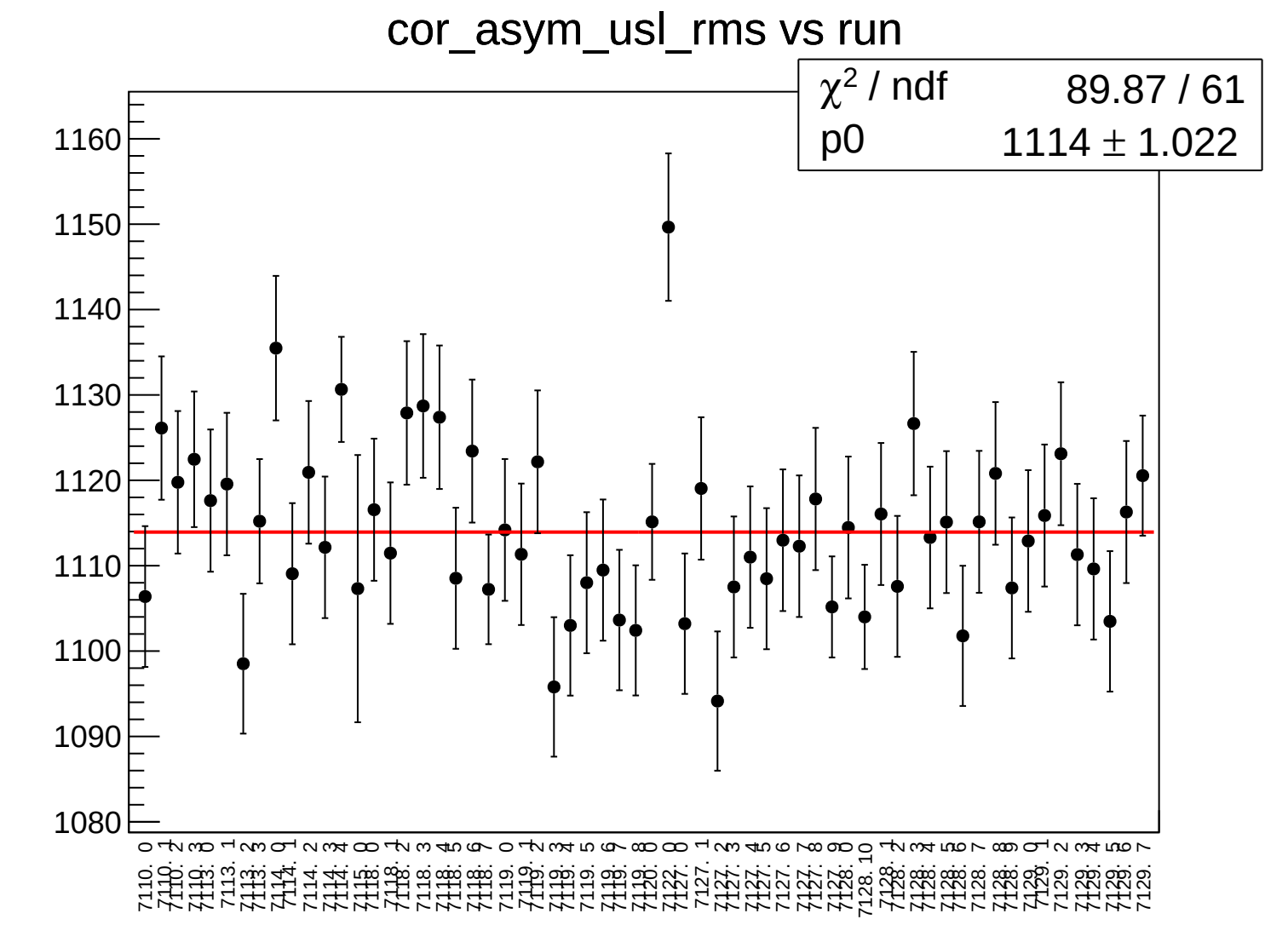

cor_asym_us_dd_mean vs run
χ² / ndf 63.7 / 61
p0 8.371 ± 1012
20000
10000
0
−10000
−20000
−30000
pull
Entries 62
Mean 22.59
Std Dev 37.94
2
1
0
−1
−2

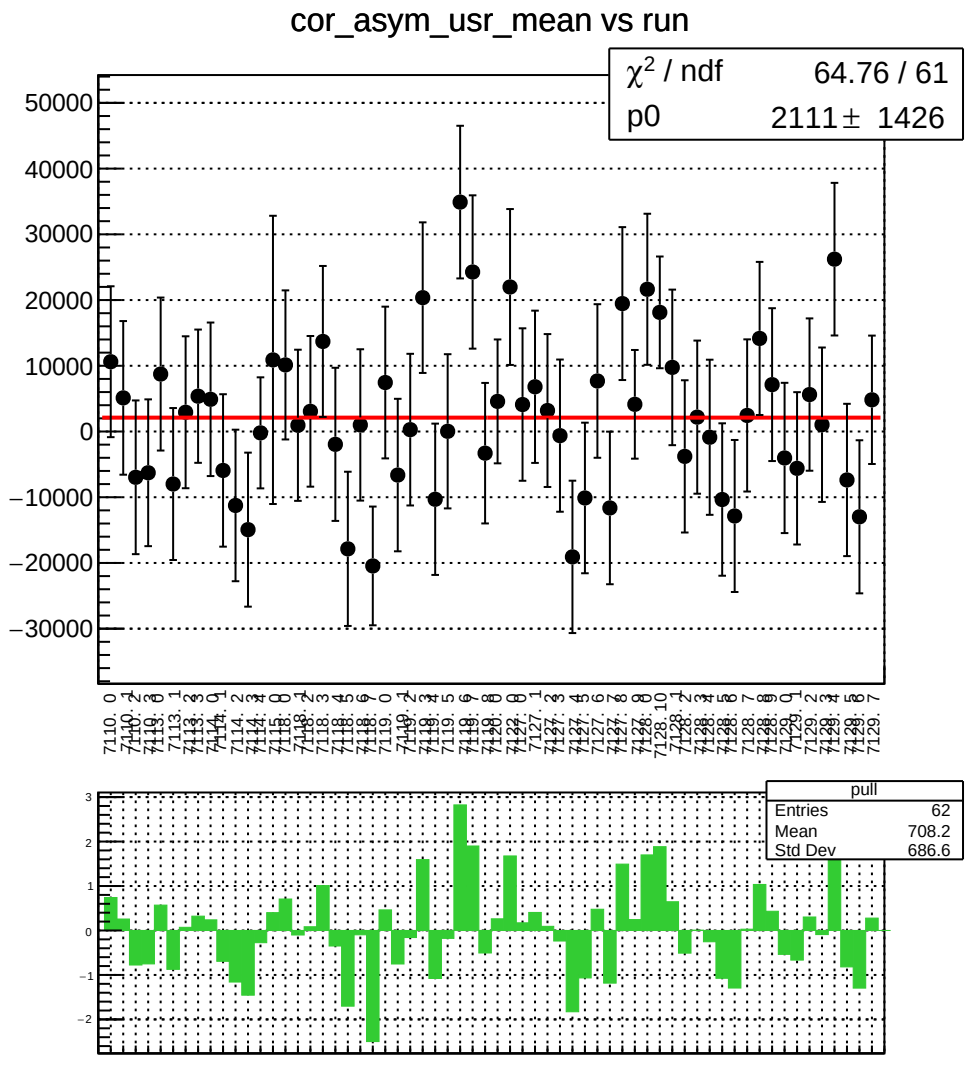

pull1D
Entries 62
Mean −0.02758
Std Dev 1.013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

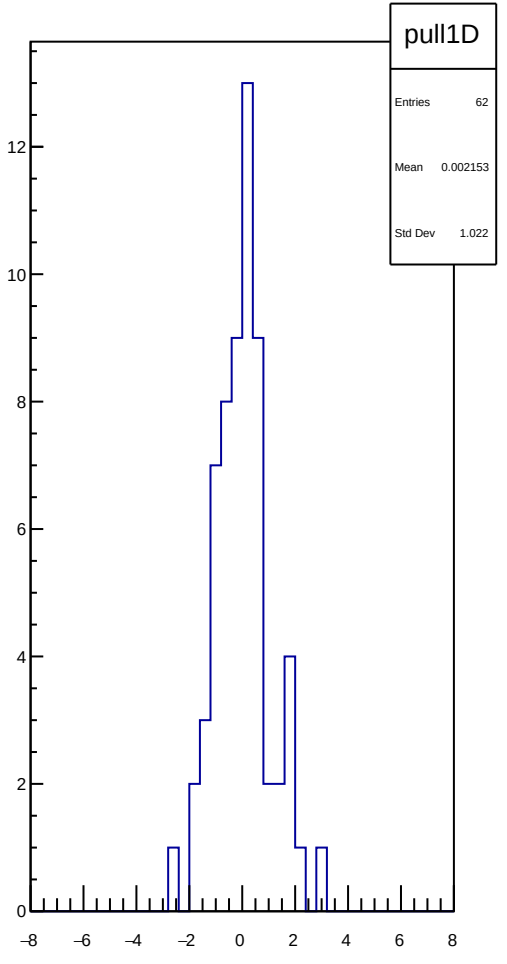

cor_asym_us_dd_rms vs run
χ² / ndf 95.11 / 61
p0 779.7 ± 0.7153
800
790
780
770
760

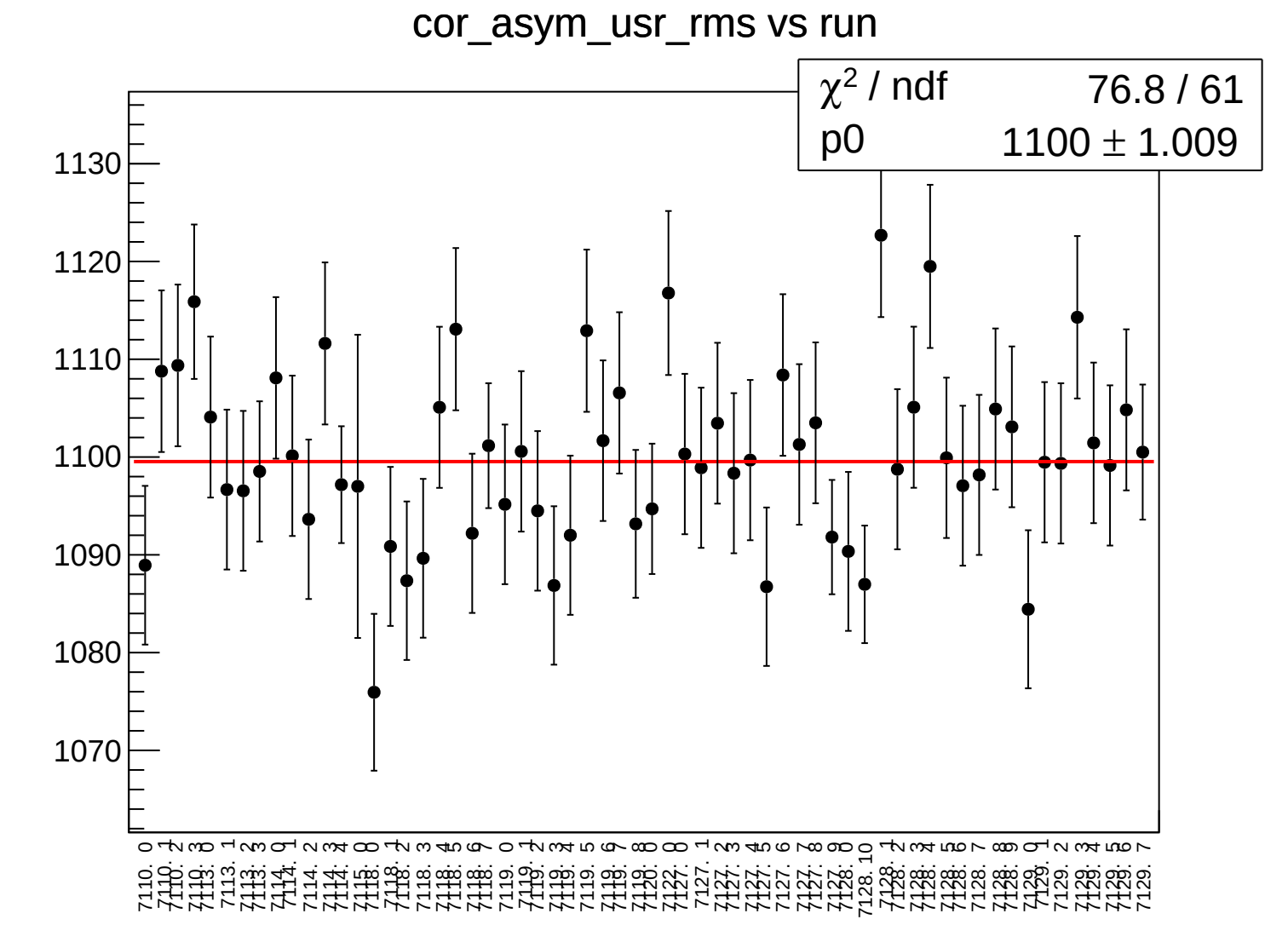

cor_asym_usl_mean vs run
χ² / ndf 46.28 / 61
p0 2103 ± 1445
pull
Entries 62
Mean −19.84
Std Dev 57.56

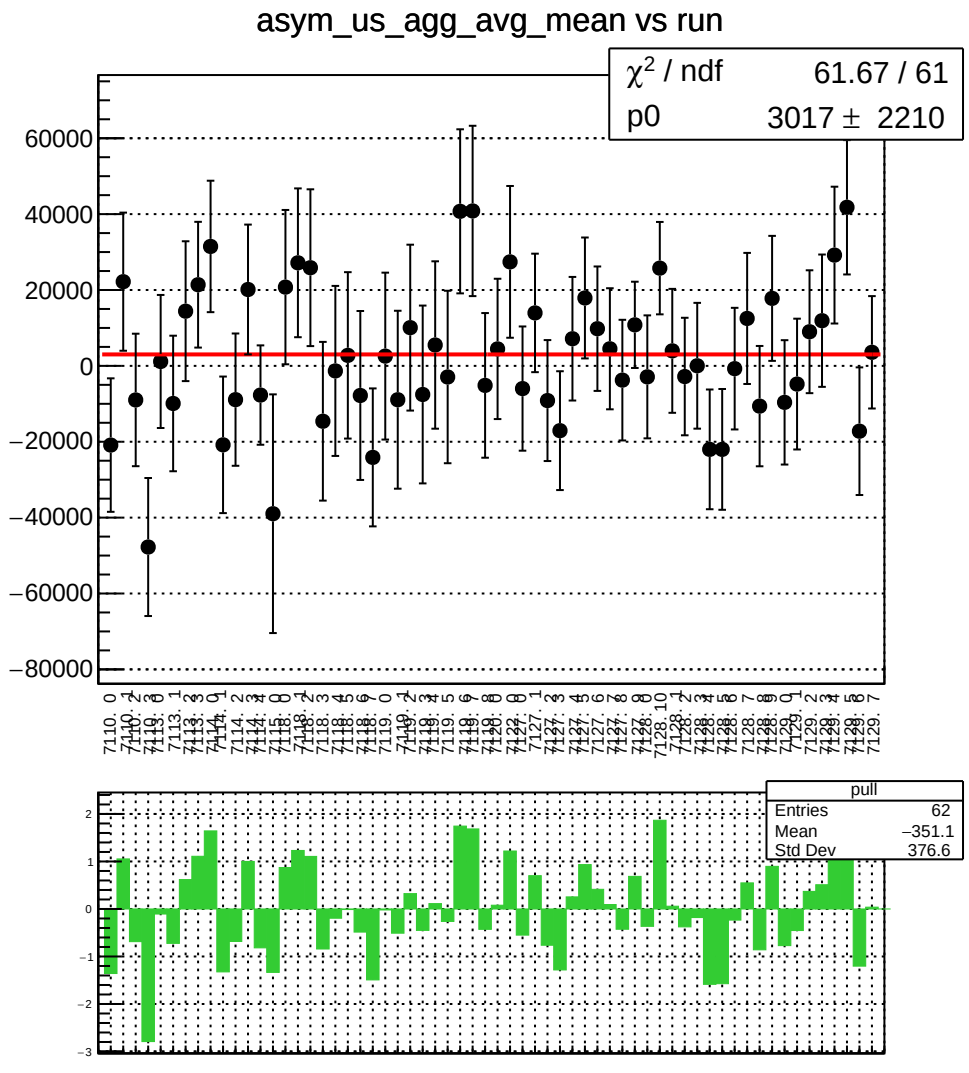

pull1D
Entries 62
Mean −0.03537
Std Dev 0.8632

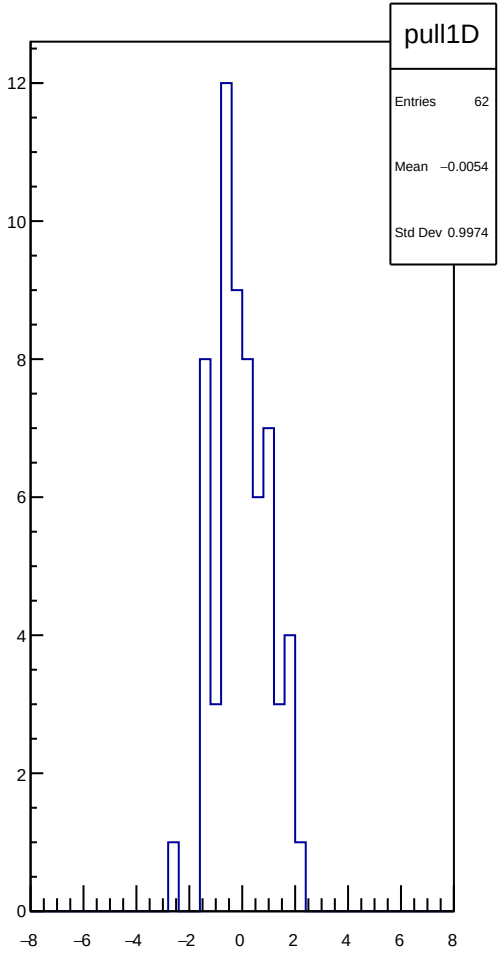

cor_asym_usl_rms vs run
χ^2 / ndf 89.87 / 61
p0 1114 ± 1.022
1160
1150
1140
1130
1120
1110
1100
1090
1080

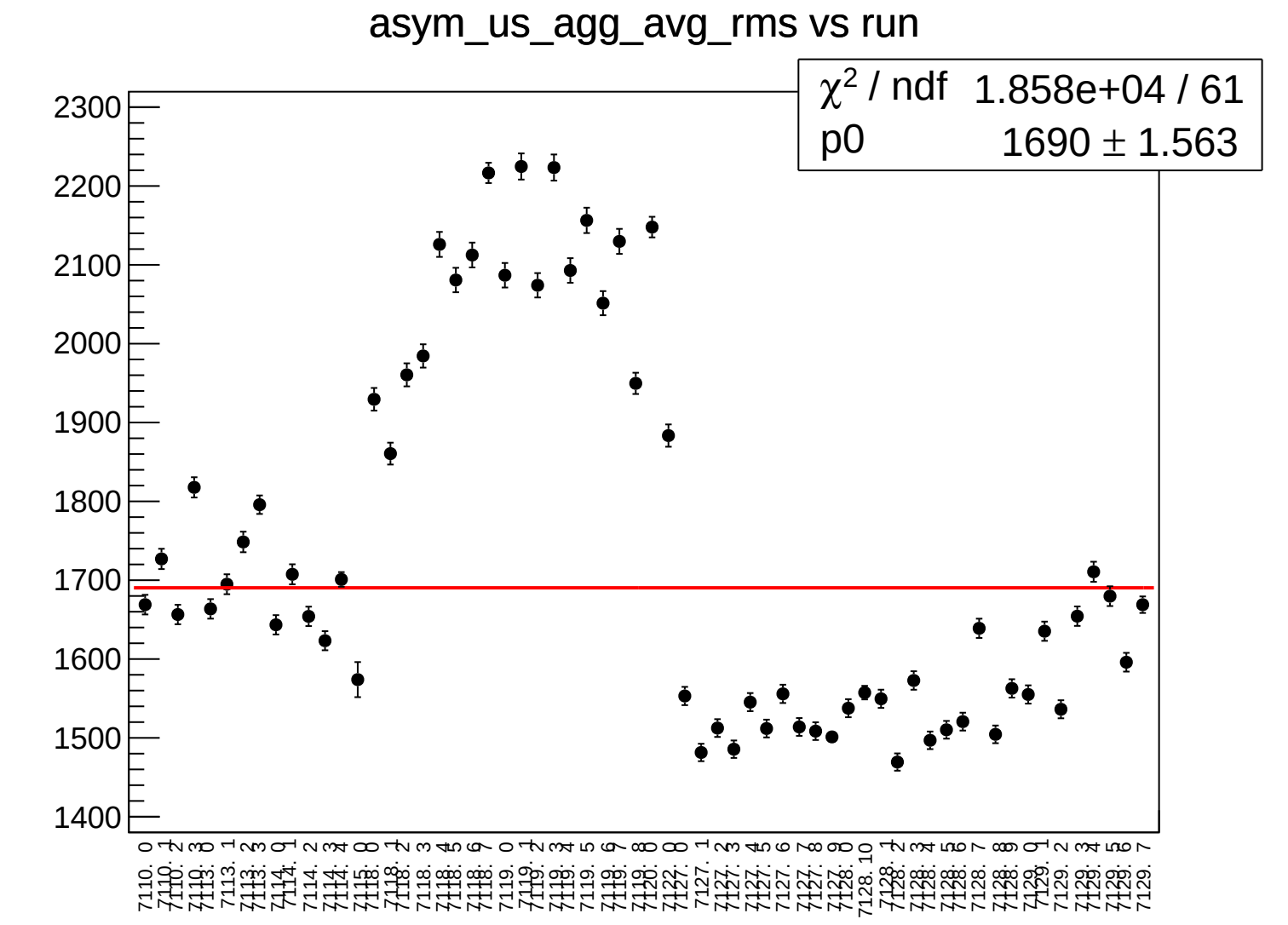

cor_asym_usr_mean vs run
χ² / ndf 64.76 / 61
p0 2111 ± 1426
pull
Entries 62
Mean 708.2
Std Dev 686.6

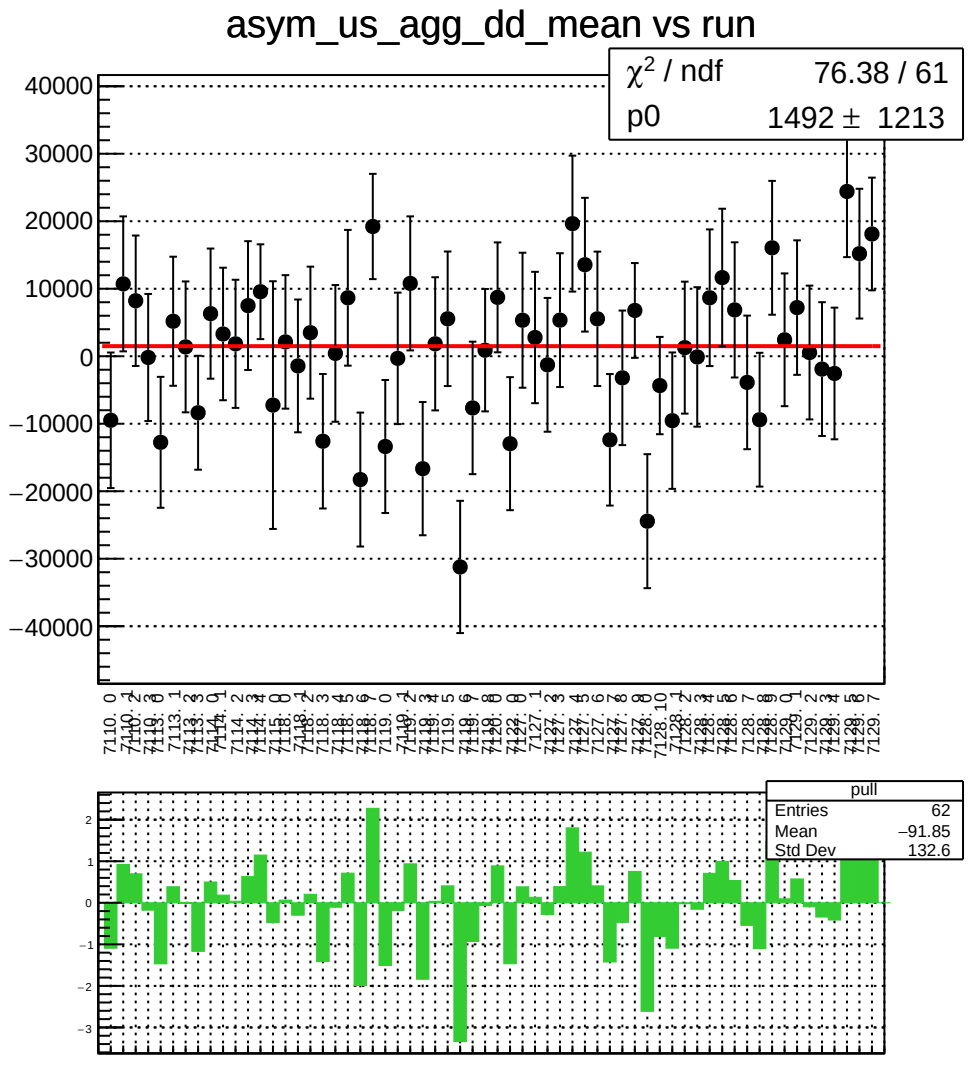

pull1D
Entries 62
Mean 0.002153
Std Dev 1.022

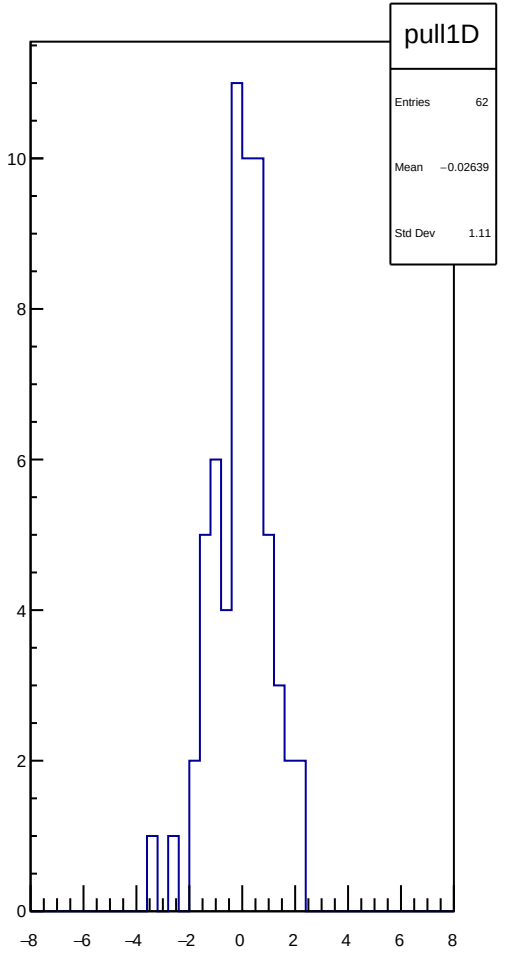

cor_asym_usr_rms vs run
χ² / ndf 76.8 / 61
p0 1100 ± 1.009
1130
1120
1110
1100
1090
1080
1070
7110. 0
7110. 1
7110. 2
7110. 3
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

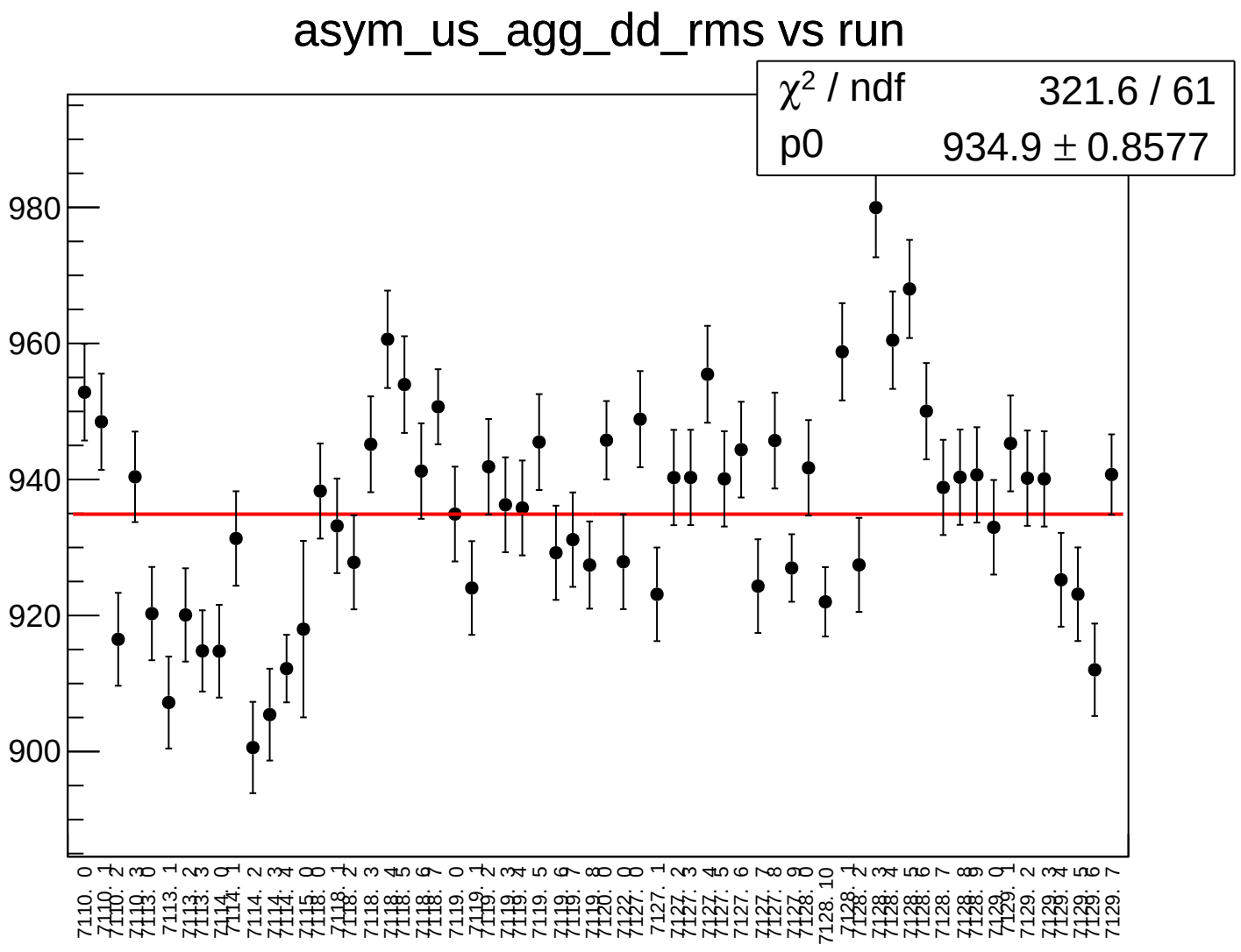

asym_us_agg_avg_mean vs run
χ² / ndf 61.67 / 61
p0 3017 ± 2210
pull
Entries 62
Mean −351.1
Std Dev 376.6

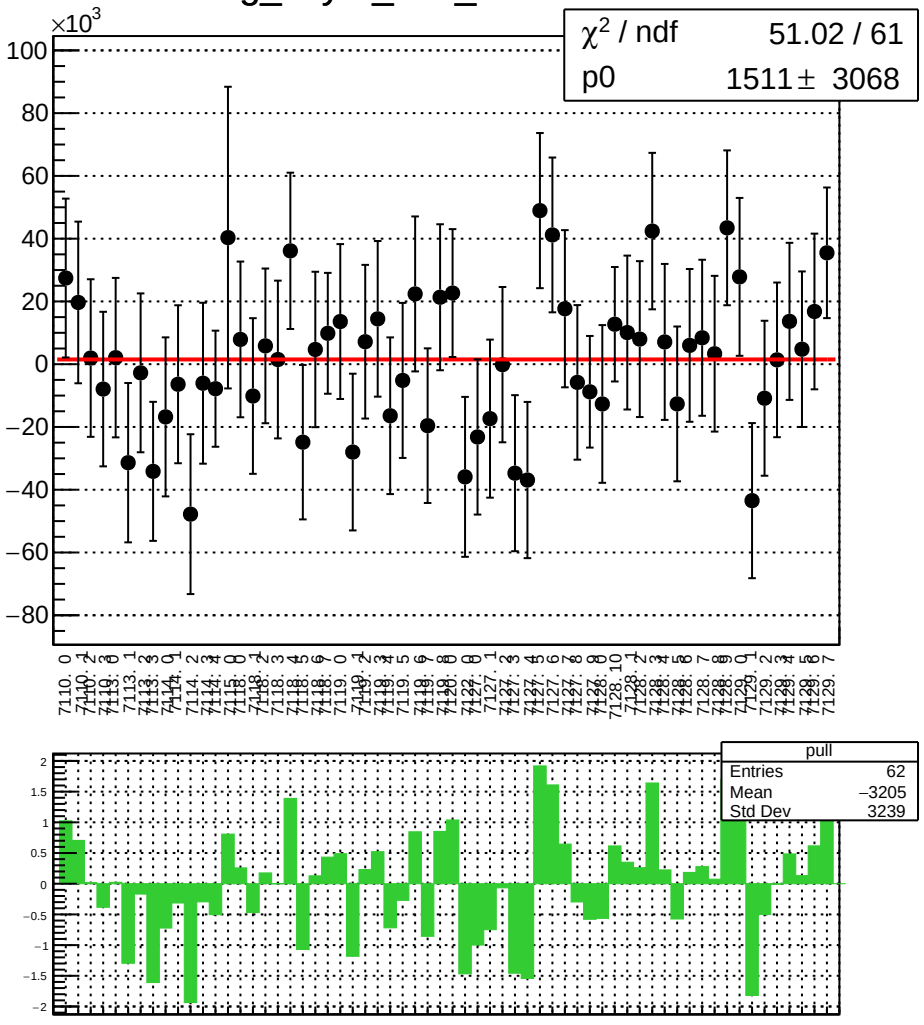

pull1D
Entries 62
Mean −0.0054
Std Dev 0.9974

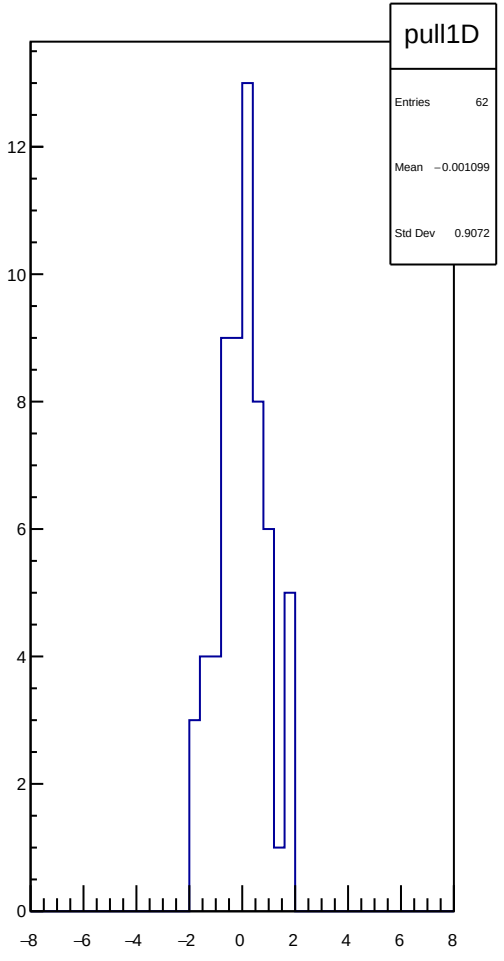

asym_us_agg_avg_rms vs run
χ² / ndf 1.858e+04 / 61
p0 1690 ± 1.563
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

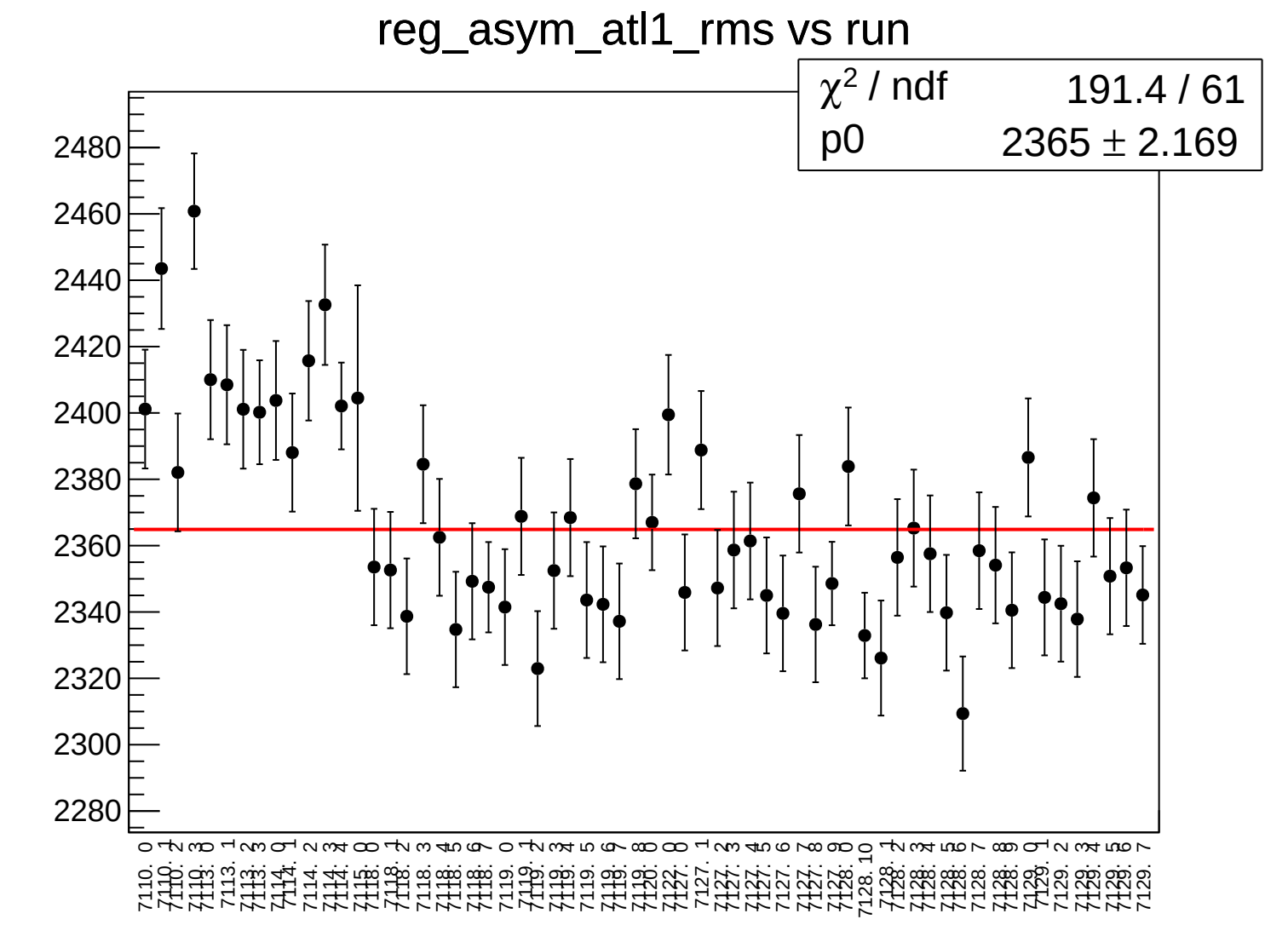

asym_us_agg_dd_mean vs run
χ² / ndf 76.38 / 61
p0 1492 ± 1213
pull
Entries 62
Mean −91.85
Std Dev 132.6

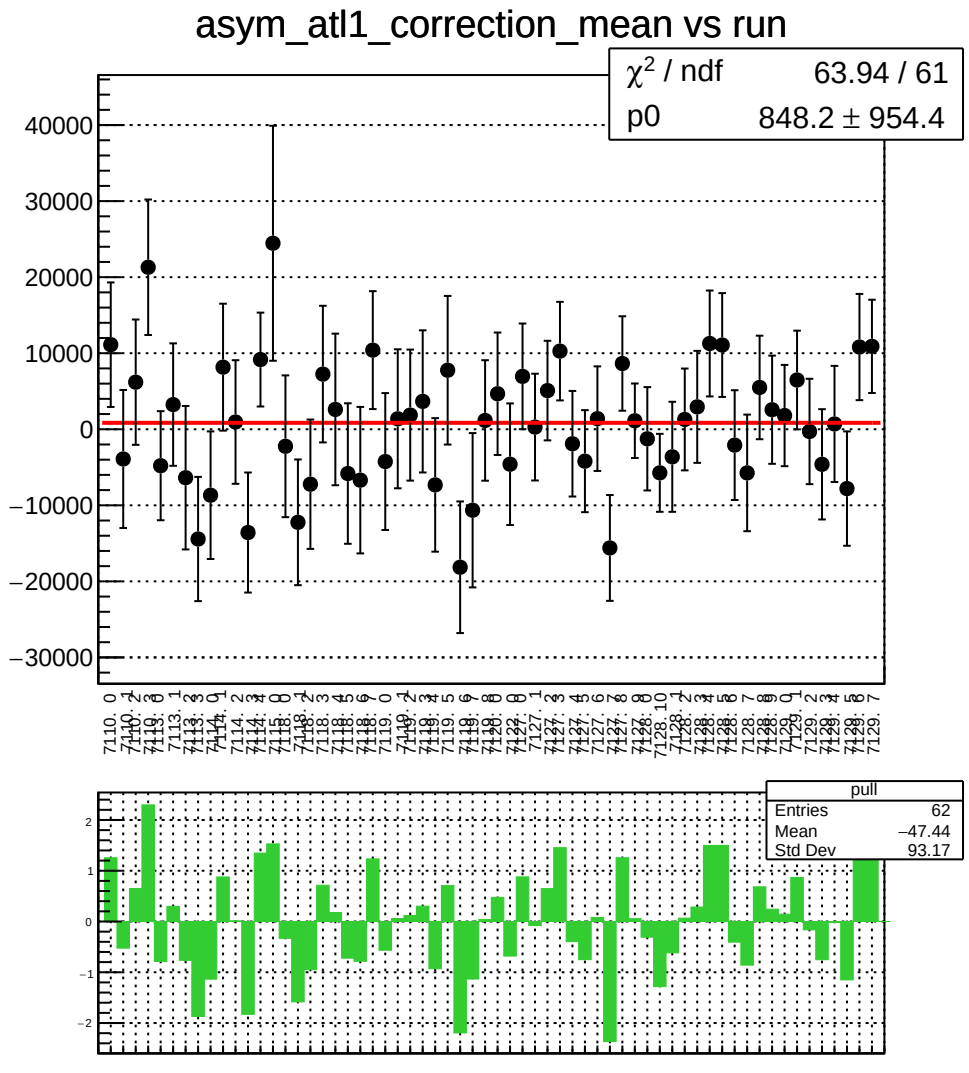

pull1D
Entries 62
Mean −0.02639
Std Dev 1.11

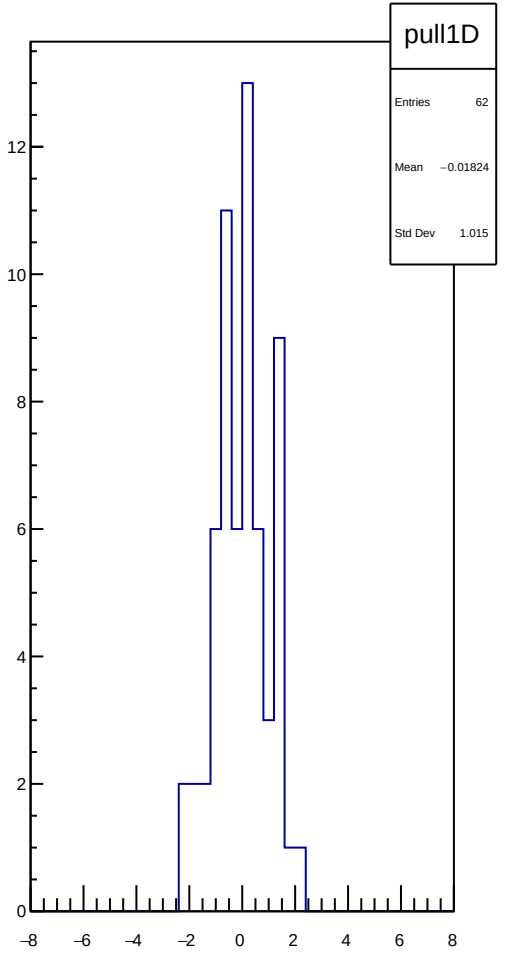

asym_us_agg_dd_rms vs run
χ^2 / ndf 321.6 / 61
p0 934.9 ± 0.8577
980
960
940
920
900

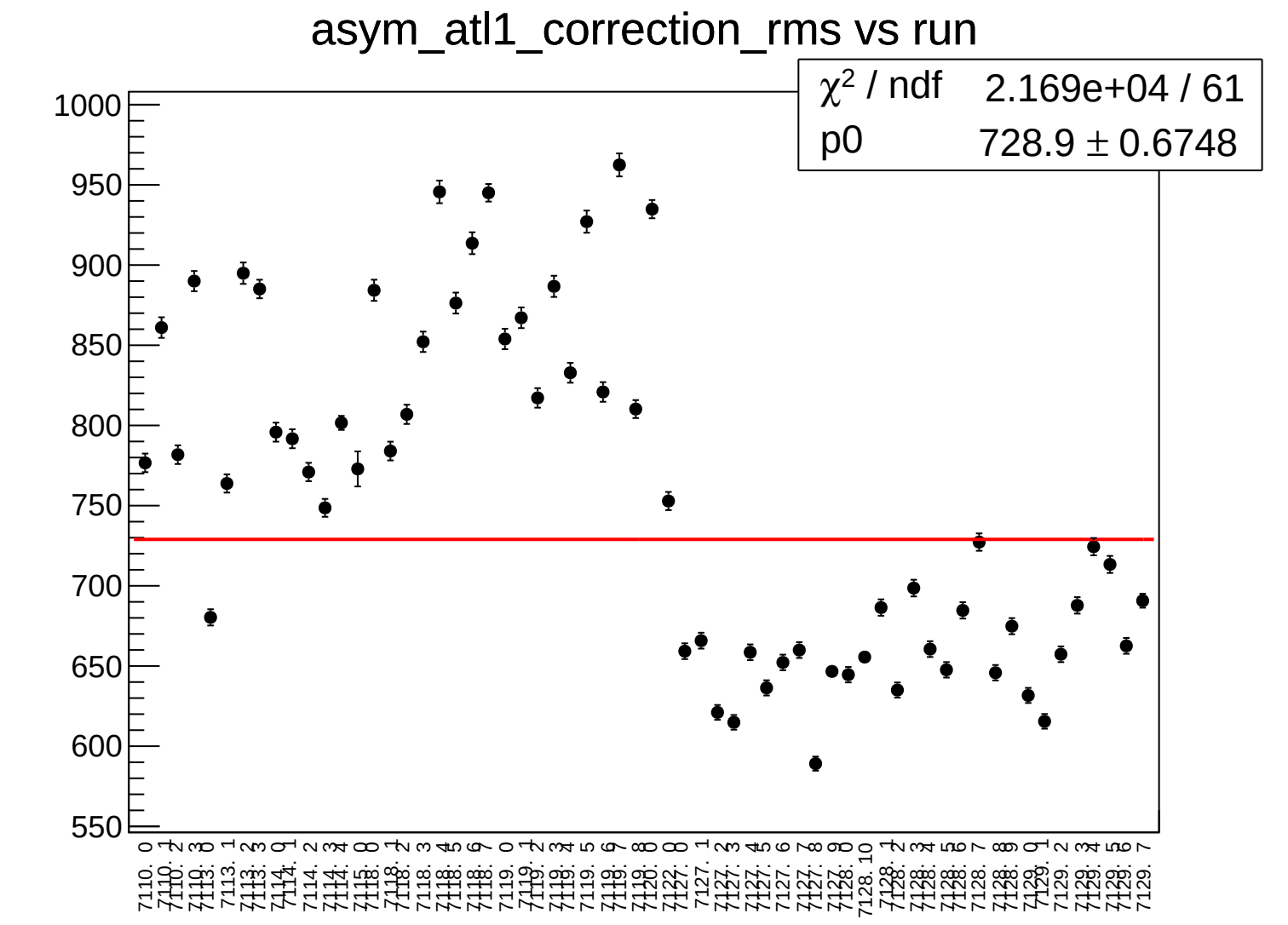

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 51.02 / 61
p0 1511 ± 3068
pull
Entries 62
Mean −3205
Std Dev 3239

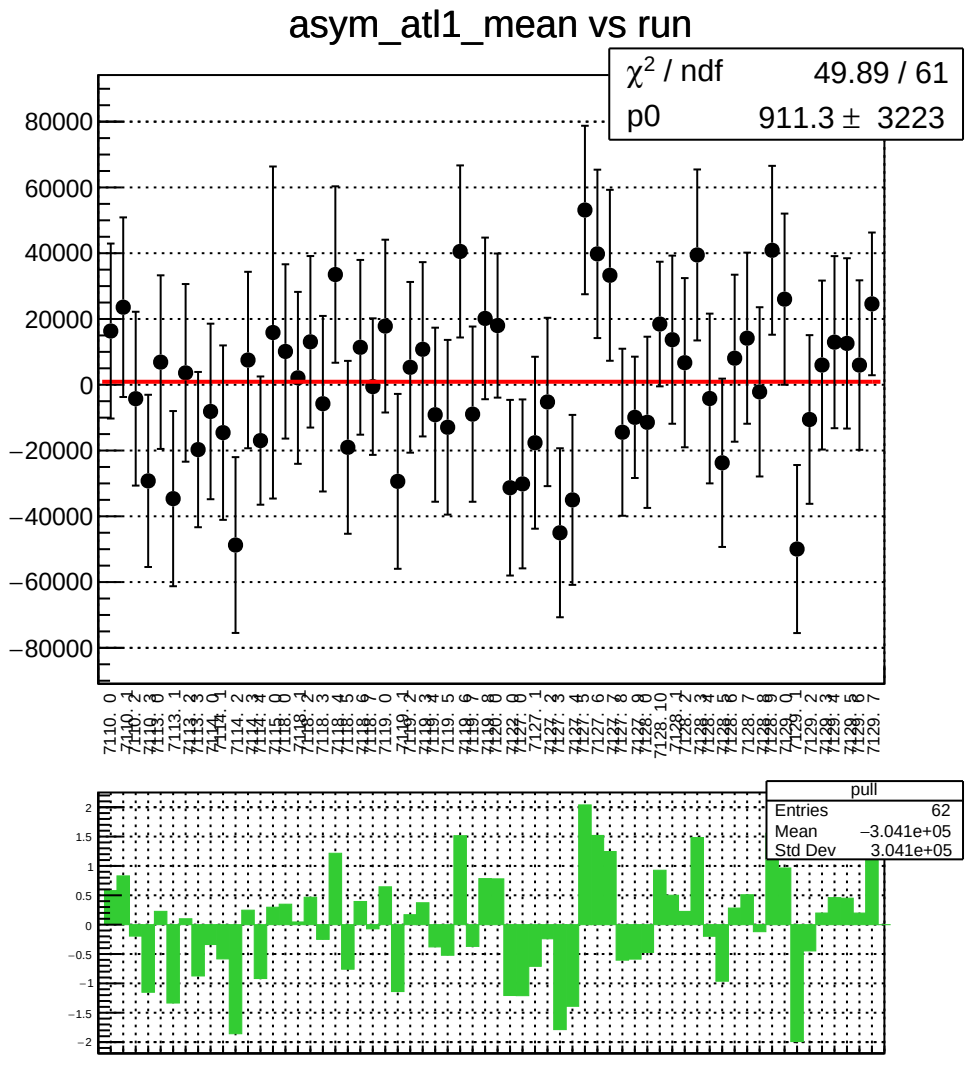

pull1D
Entries 62
Mean −0.001099
Std Dev 0.9072

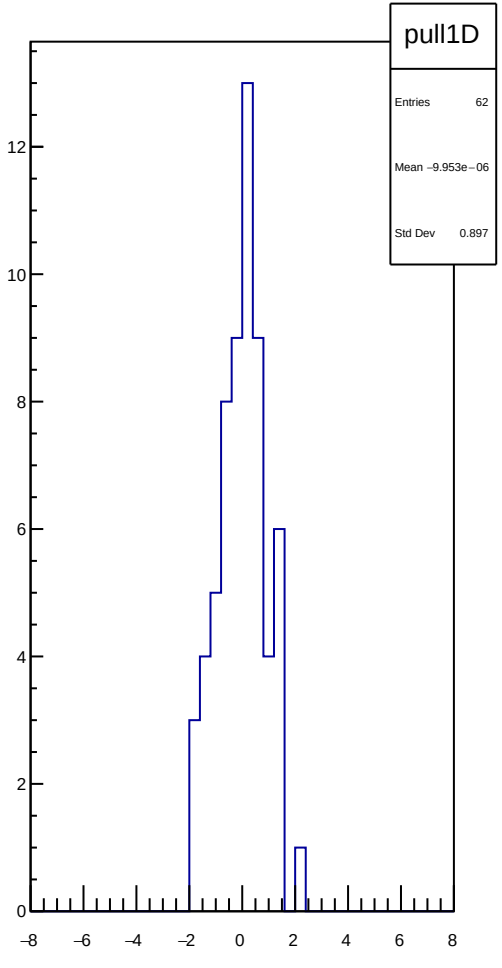

reg_asym_atl1_rms vs run
χ^2 / ndf 191.4 / 61
p0 2365 ± 2.169
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280

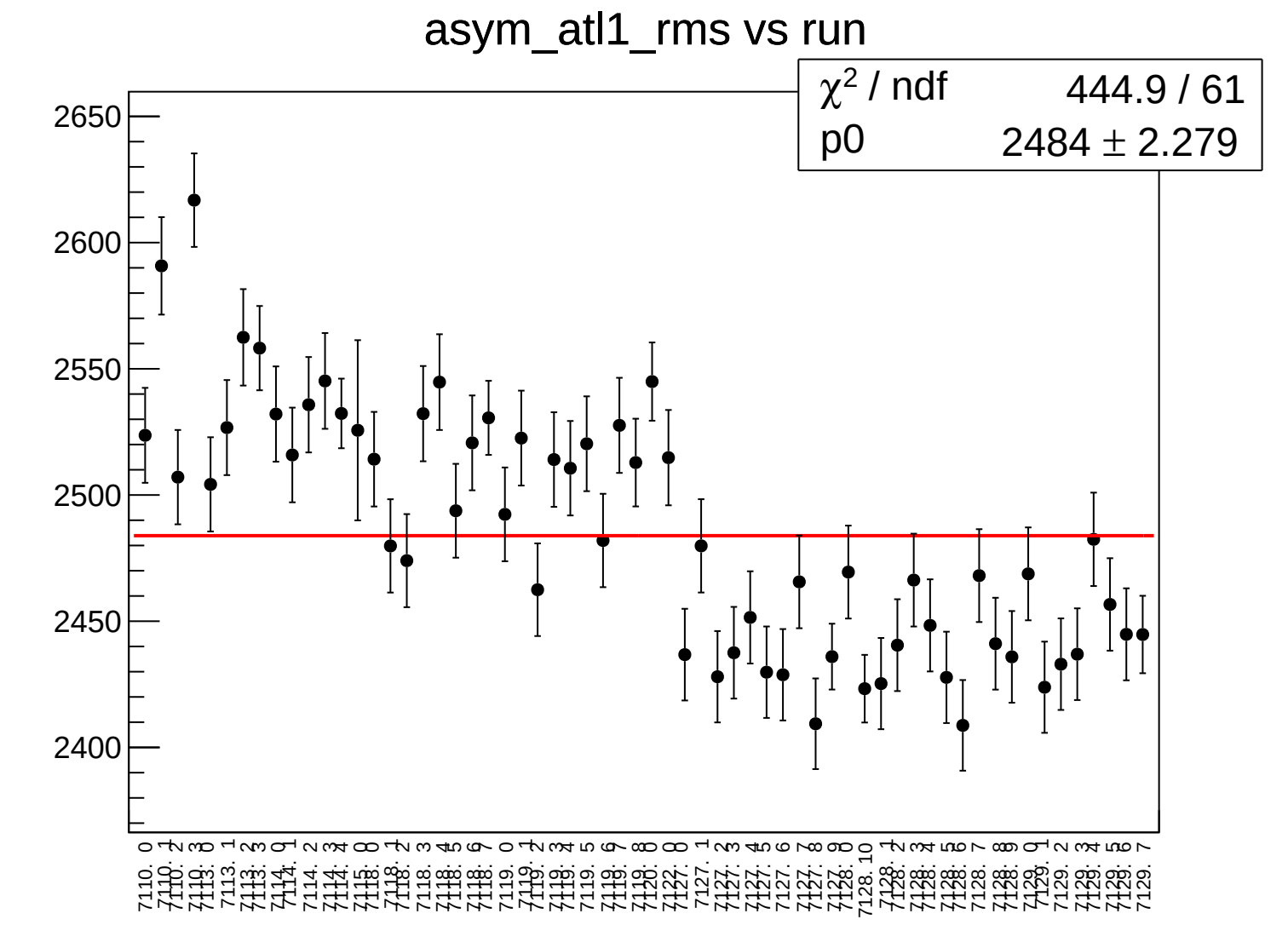

asym_atl1_correction_mean vs run
χ² / ndf 63.94 / 61
p0 848.2 ± 954.4
pull
Entries 62
Mean −47.44
Std Dev 93.17

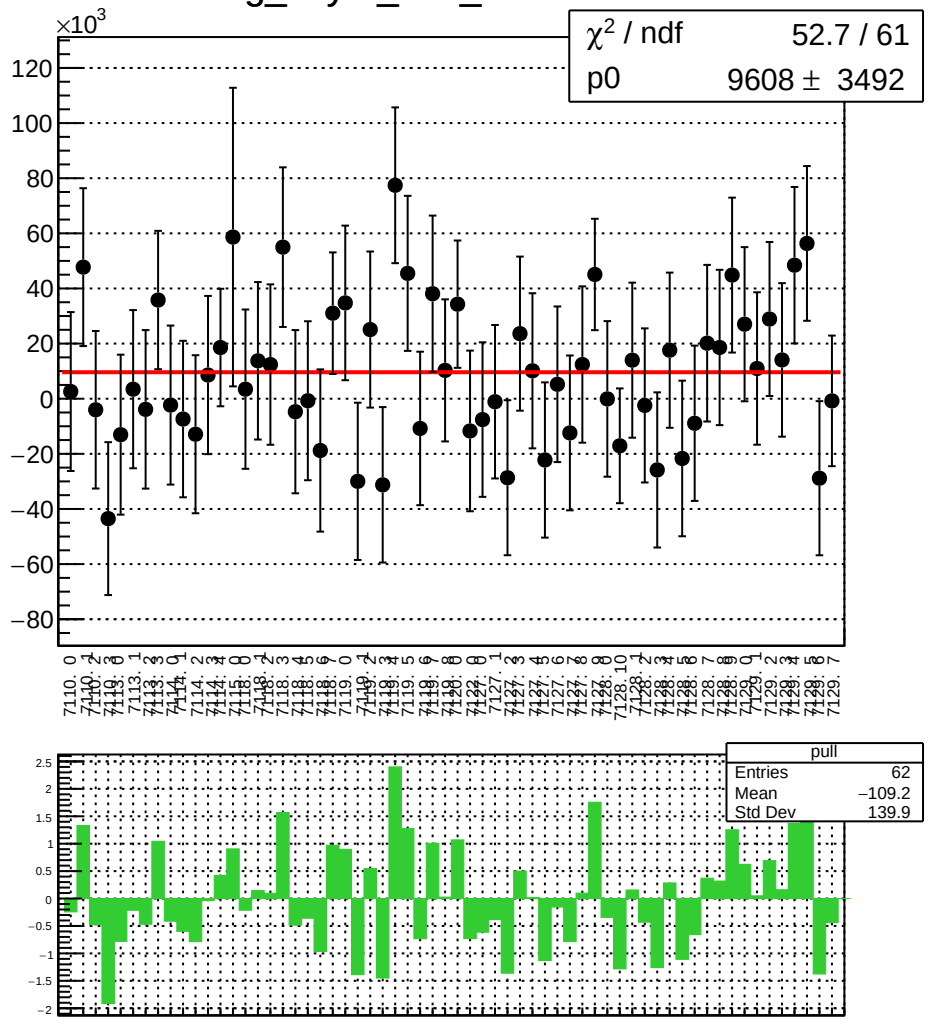

pull1D
Entries 62
Mean −0.01824
Std Dev 1.015

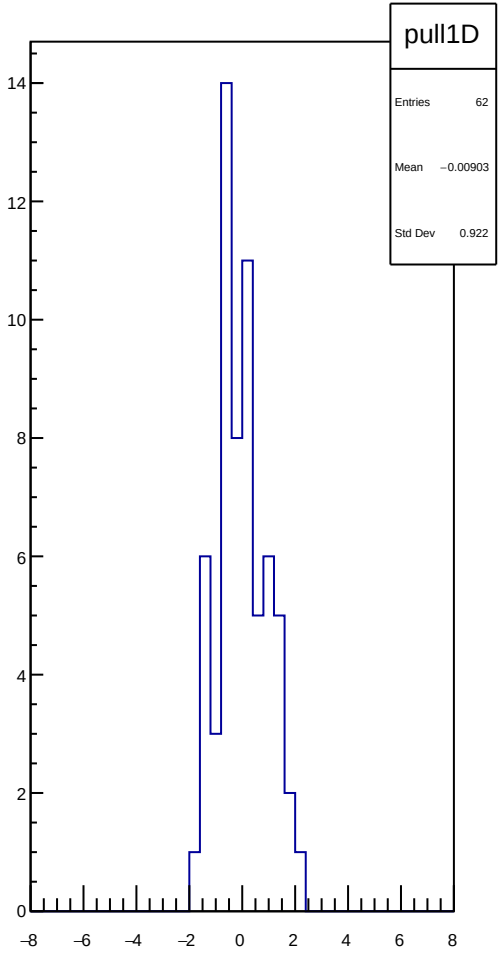

asym_atl1_correction_rms vs run
χ² / ndf 2.169e+04 / 61
p0 728.9 ± 0.6748
1000
950
900
850
800
750
700
650
600
550

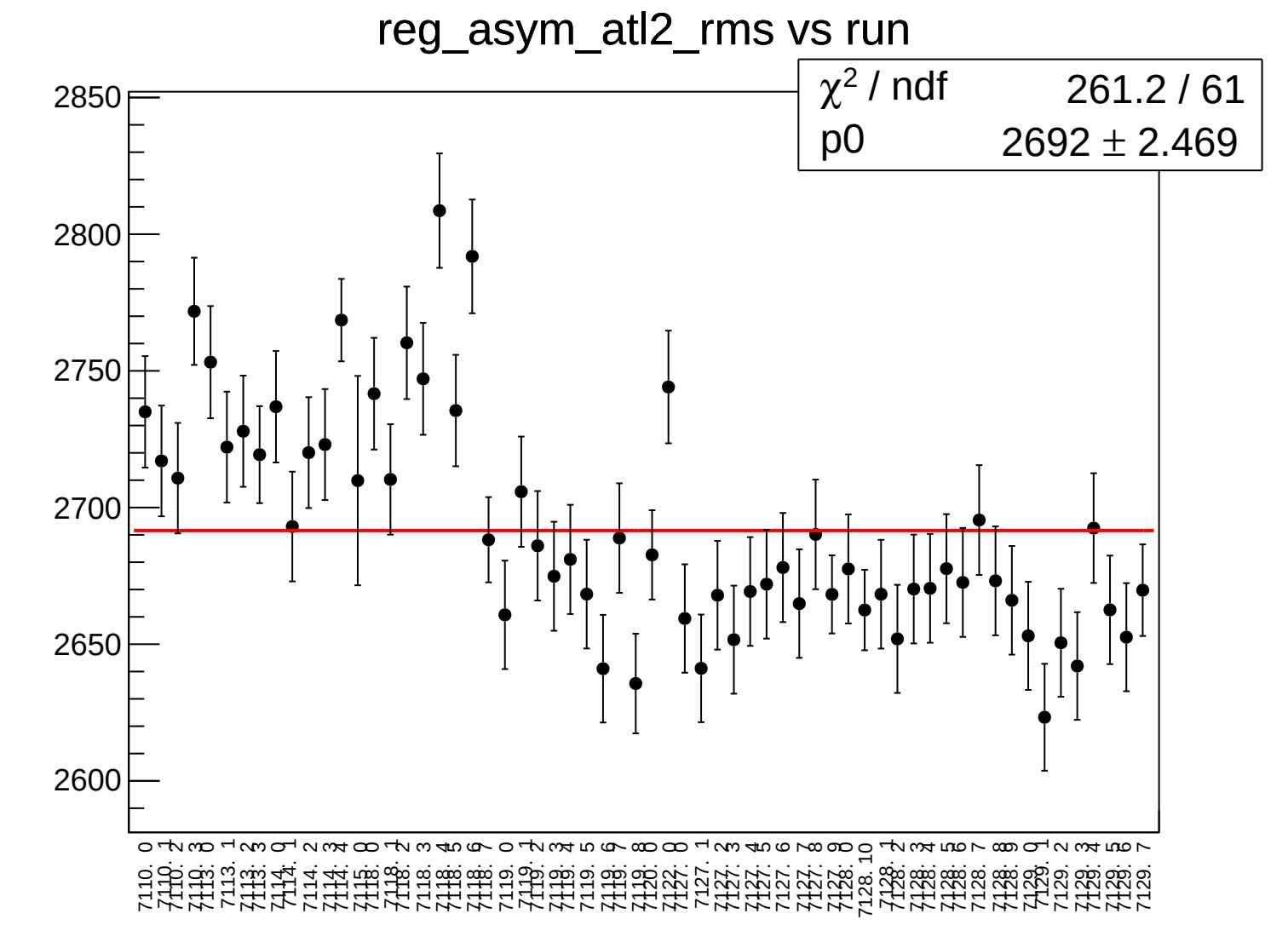

asym_atl1_mean vs run
χ² / ndf 49.89 / 61
p0 911.3 ± 3223
pull
Entries 62
Mean −3.041e+05
Std Dev 3.041e+05

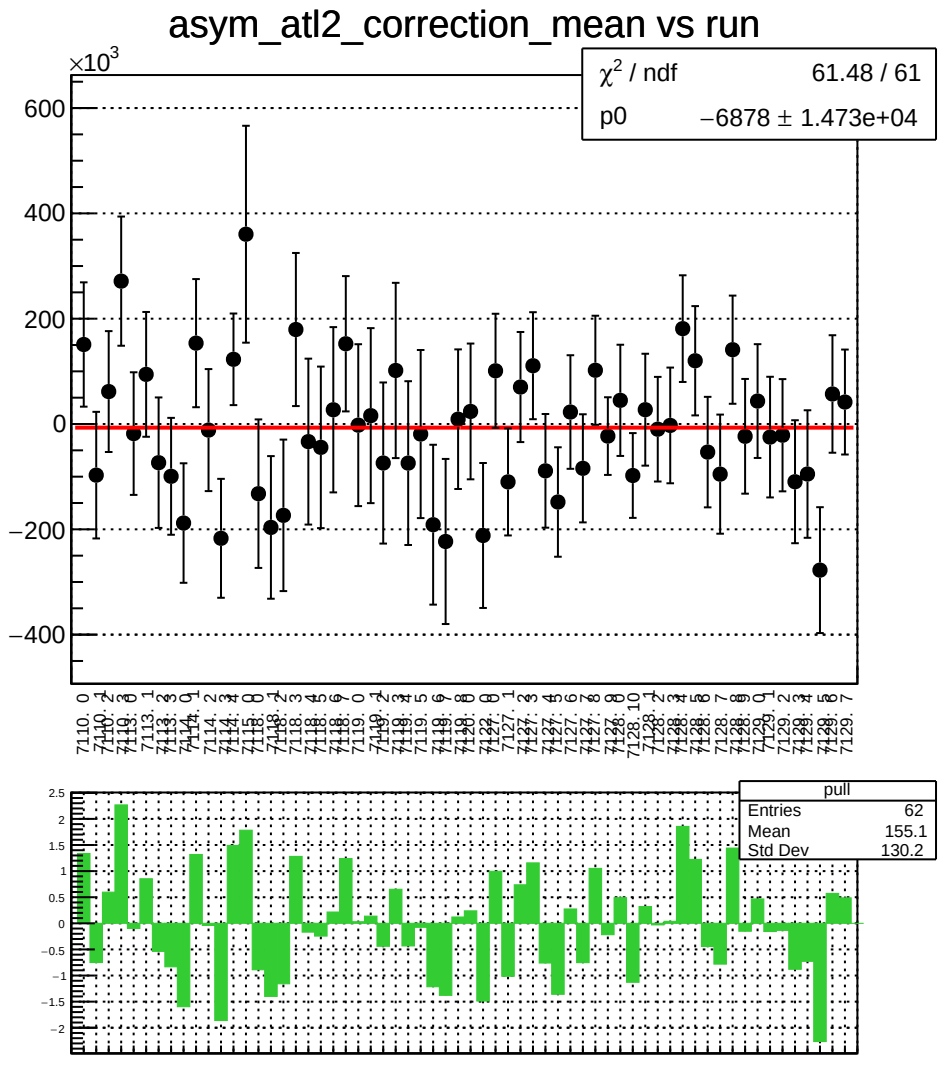

pull1D
Entries 62
Mean −9.953e−06
Std Dev 0.897

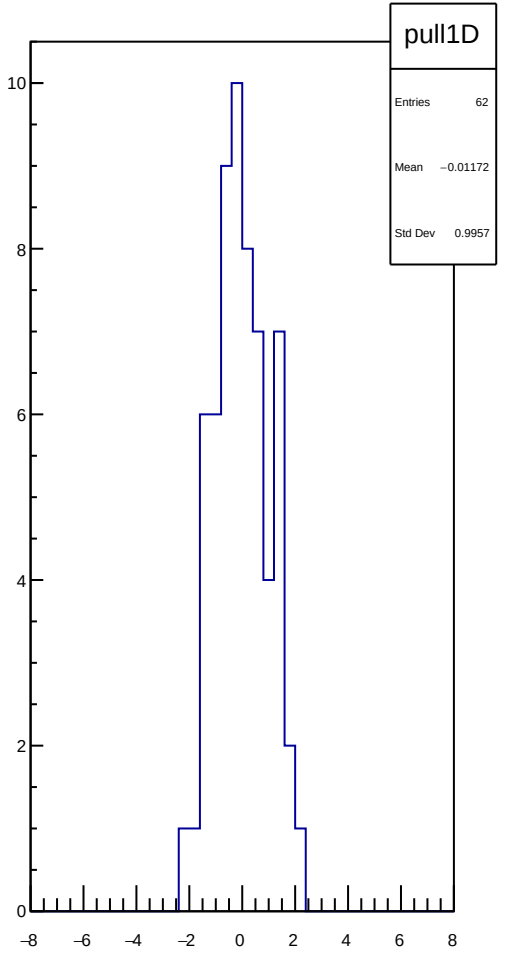

asym_atl1_rms vs run
χ^2 / ndf 444.9 / 61
p0 2484 ± 2.279
2650
2600
2550
2500
2450
2400

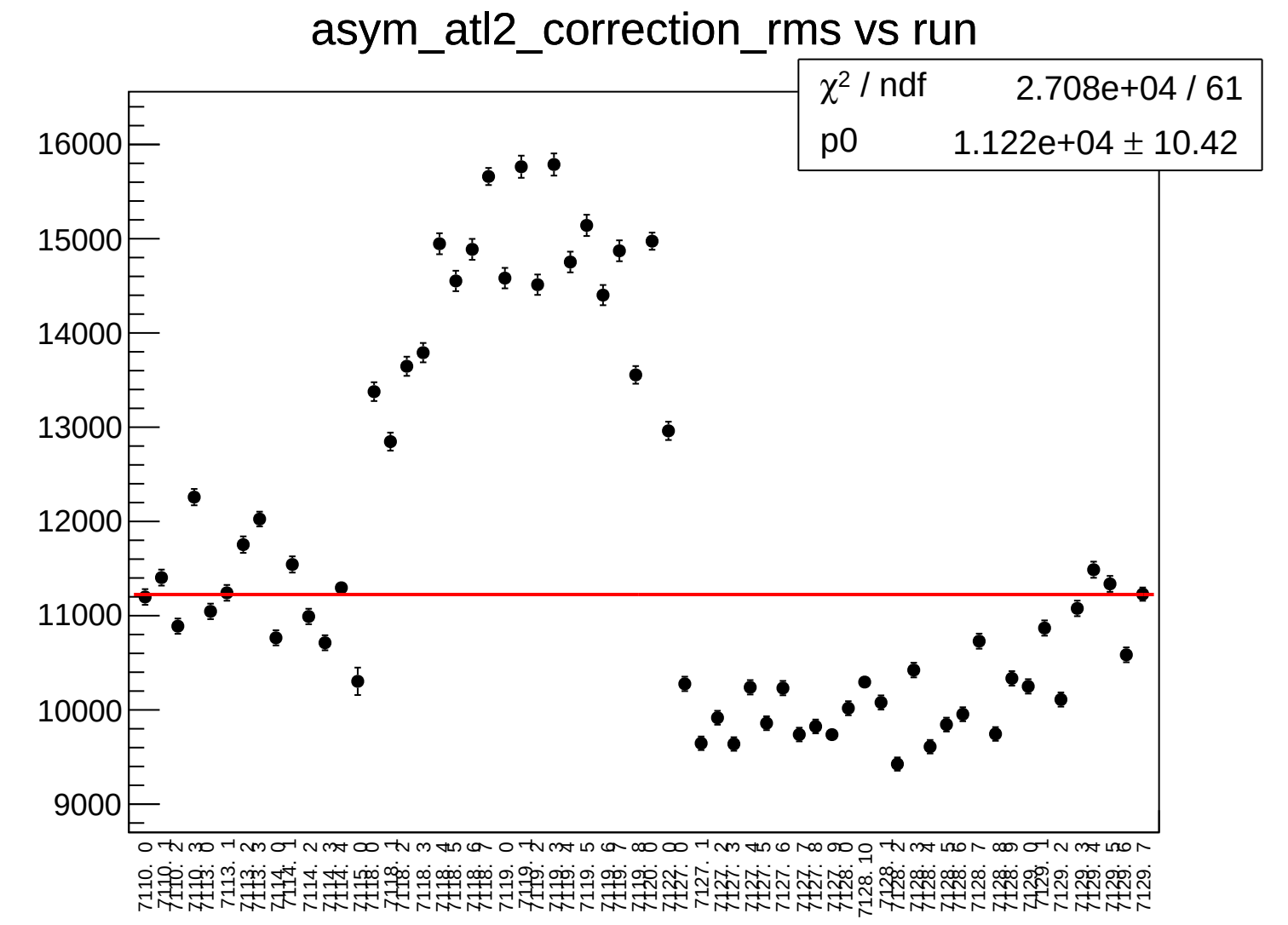

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 52.7 / 61
p0 9608 ± 3492
pull
Entries 62
Mean −109.2
Std Dev 139.9

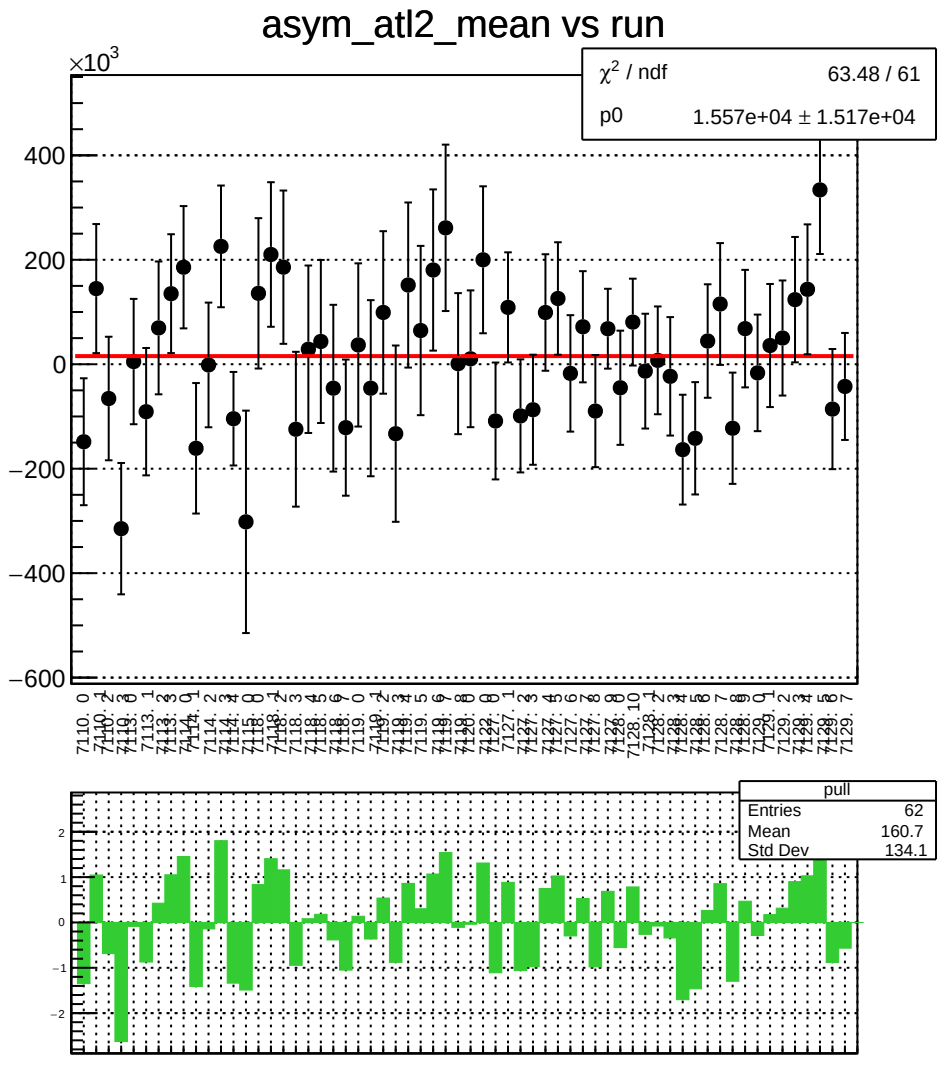

pull1D
Entries 62
Mean −0.00903
Std Dev 0.922

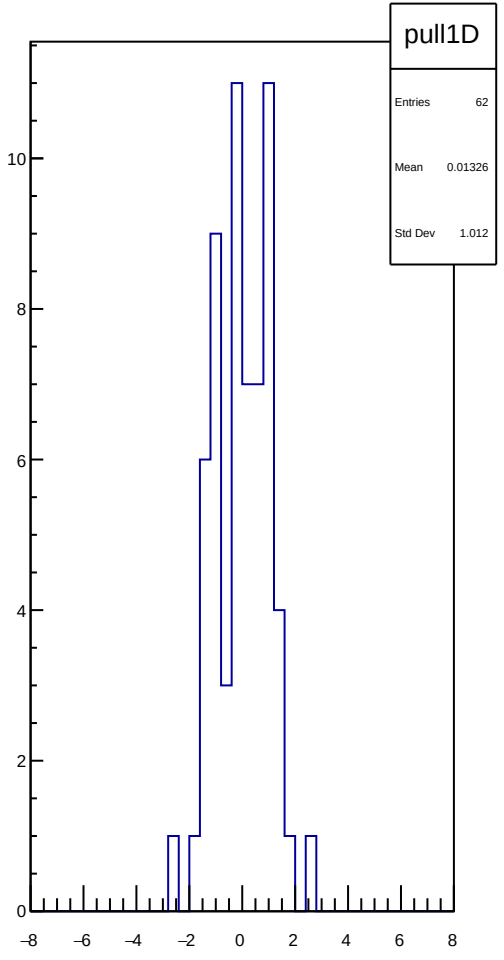

reg_asym_atl2_rms vs run
χ² / ndf 261.2 / 61
p0 2692 ± 2.469
2850
2800
2750
2700
2650
2600

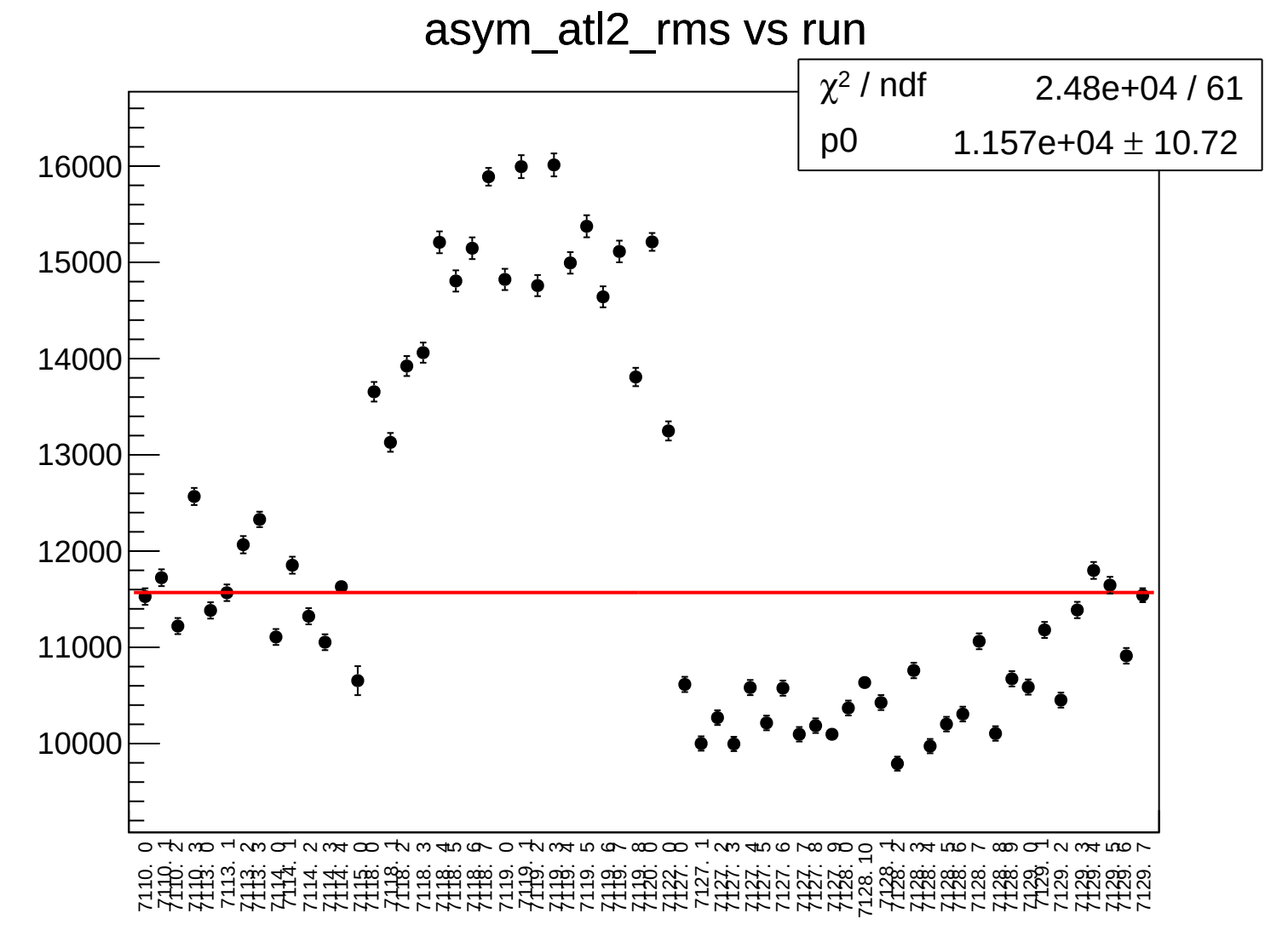

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 61.48 / 61
p0 −6878 ± 1.473e+04
600
400
200
0
−200
−400
pull
Entries 62
Mean 155.1
Std Dev 130.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

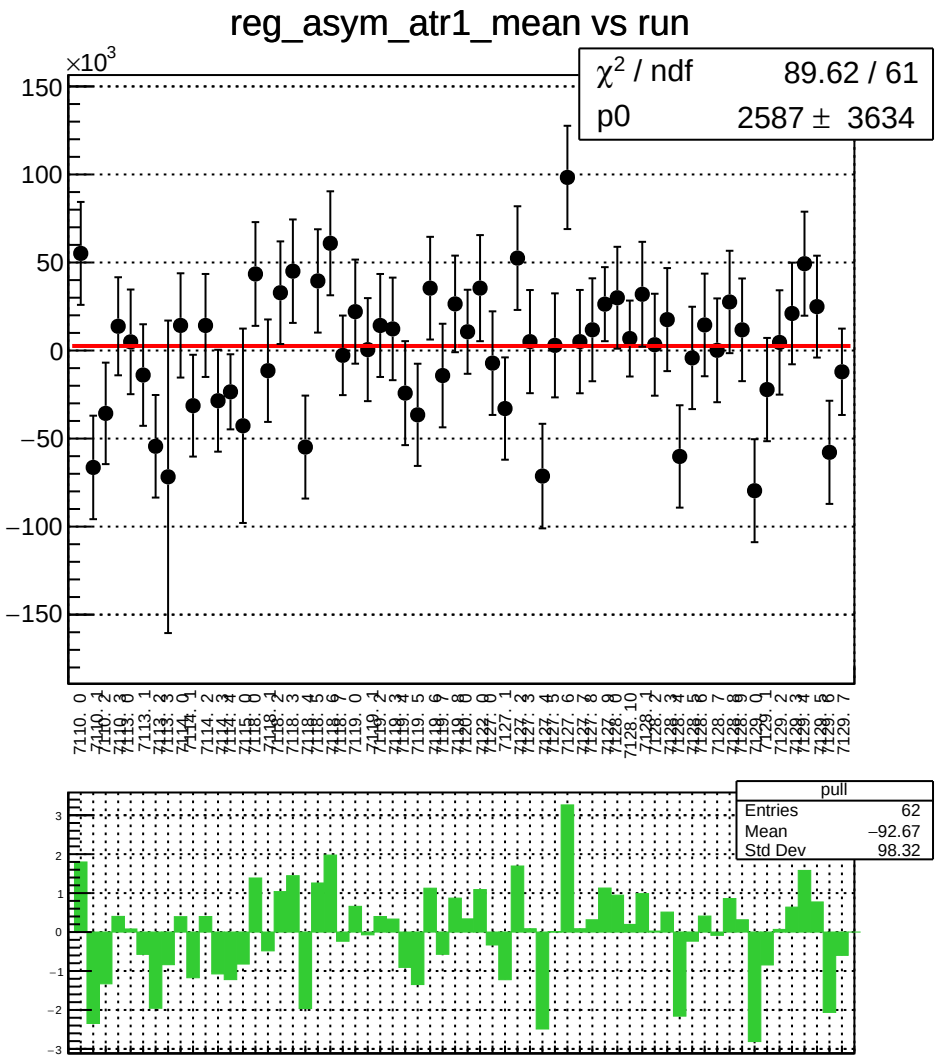

pull1D
Entries 62
Mean −0.01172
Std Dev 0.9957
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

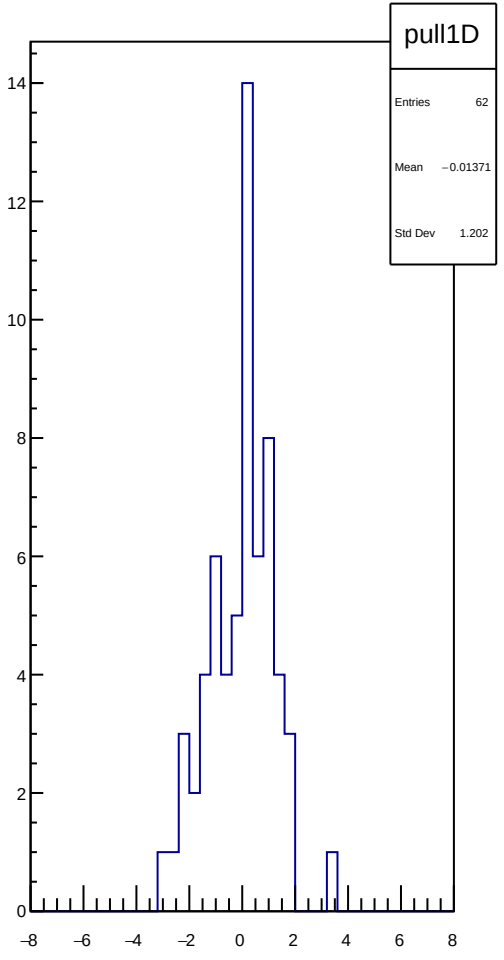

asym_atl2_correction_rms vs run
χ² / ndf 2.708e+04 / 61
p0 1.122e+04 ± 10.42
16000
15000
14000
13000
12000
11000
10000
9000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

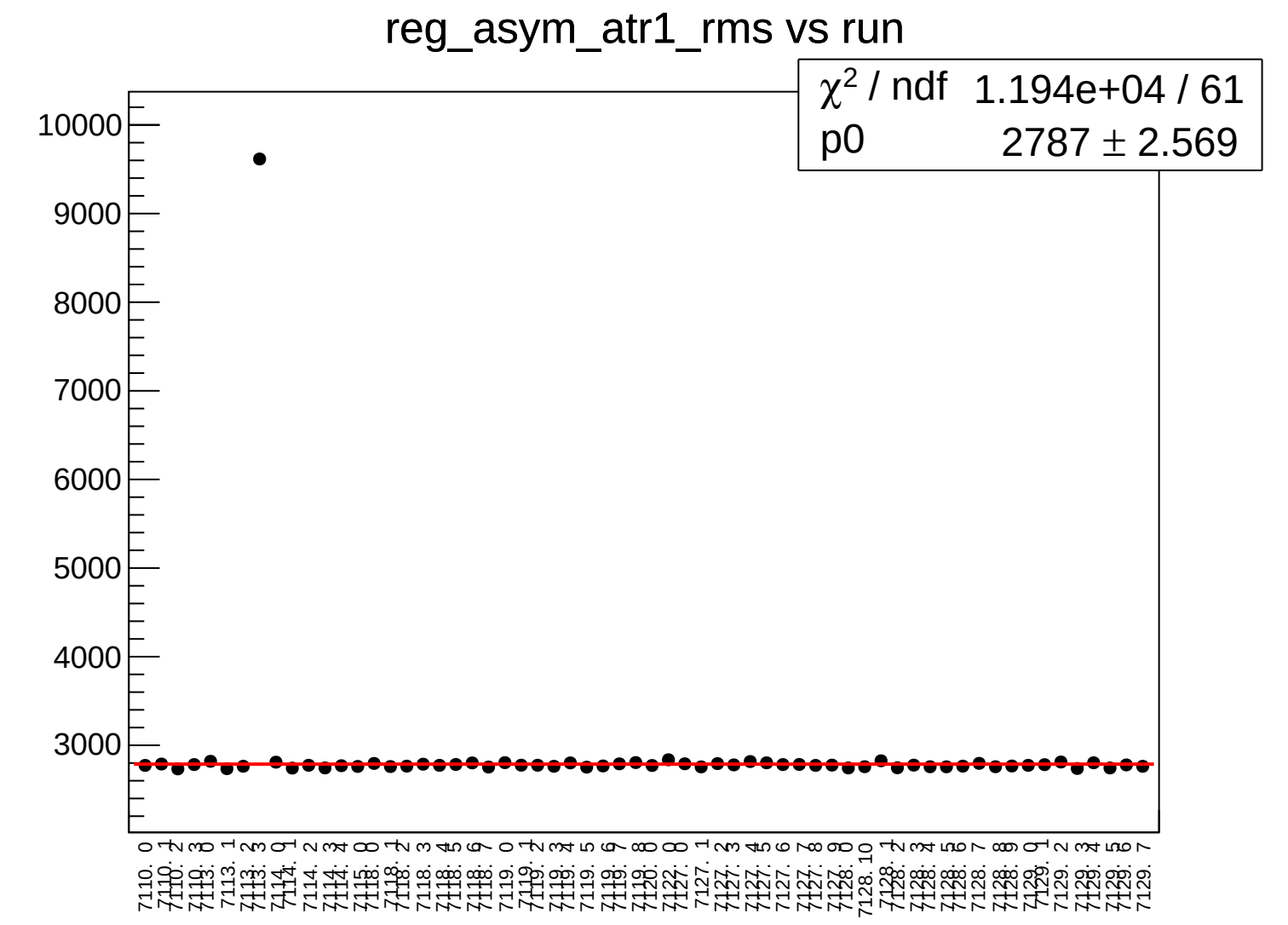

asym_atl2_mean vs run
×10^3
χ² / ndf 63.48 / 61
p0 1.557e+04 ± 1.517e+04
400
200
0
−200
−400
−600
pull
Entries 62
Mean 160.7
Std Dev 134.1
2
1
0
−1
−2

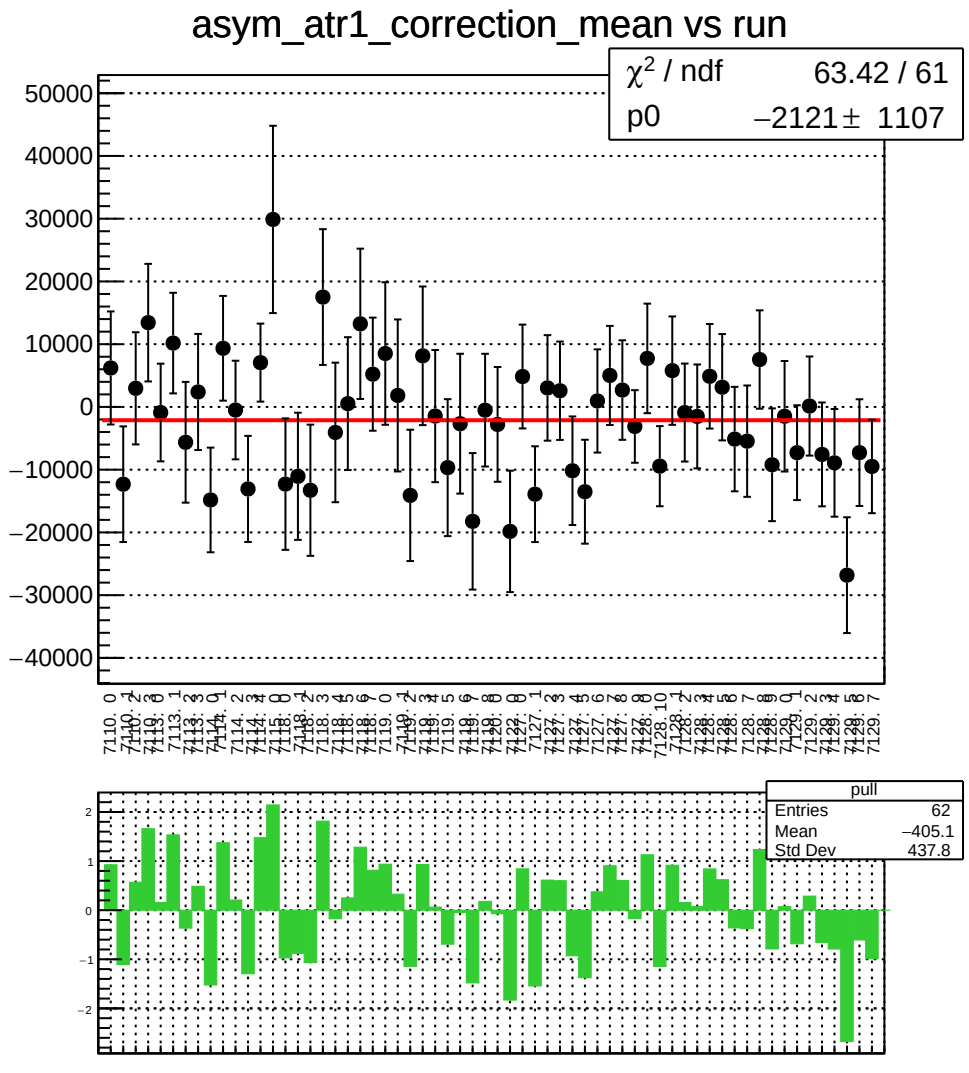

pull1D
Entries 62
Mean 0.01326
Std Dev 1.012
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

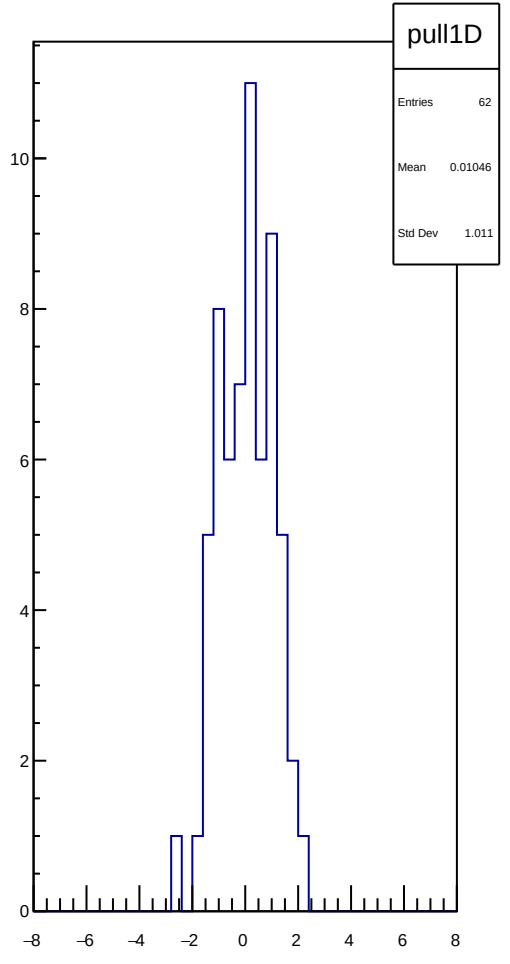

asym_atl2_rms vs run
χ² / ndf 2.48e+04 / 61
p0 1.157e+04 ± 10.72
16000
15000
14000
13000
12000
11000
10000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

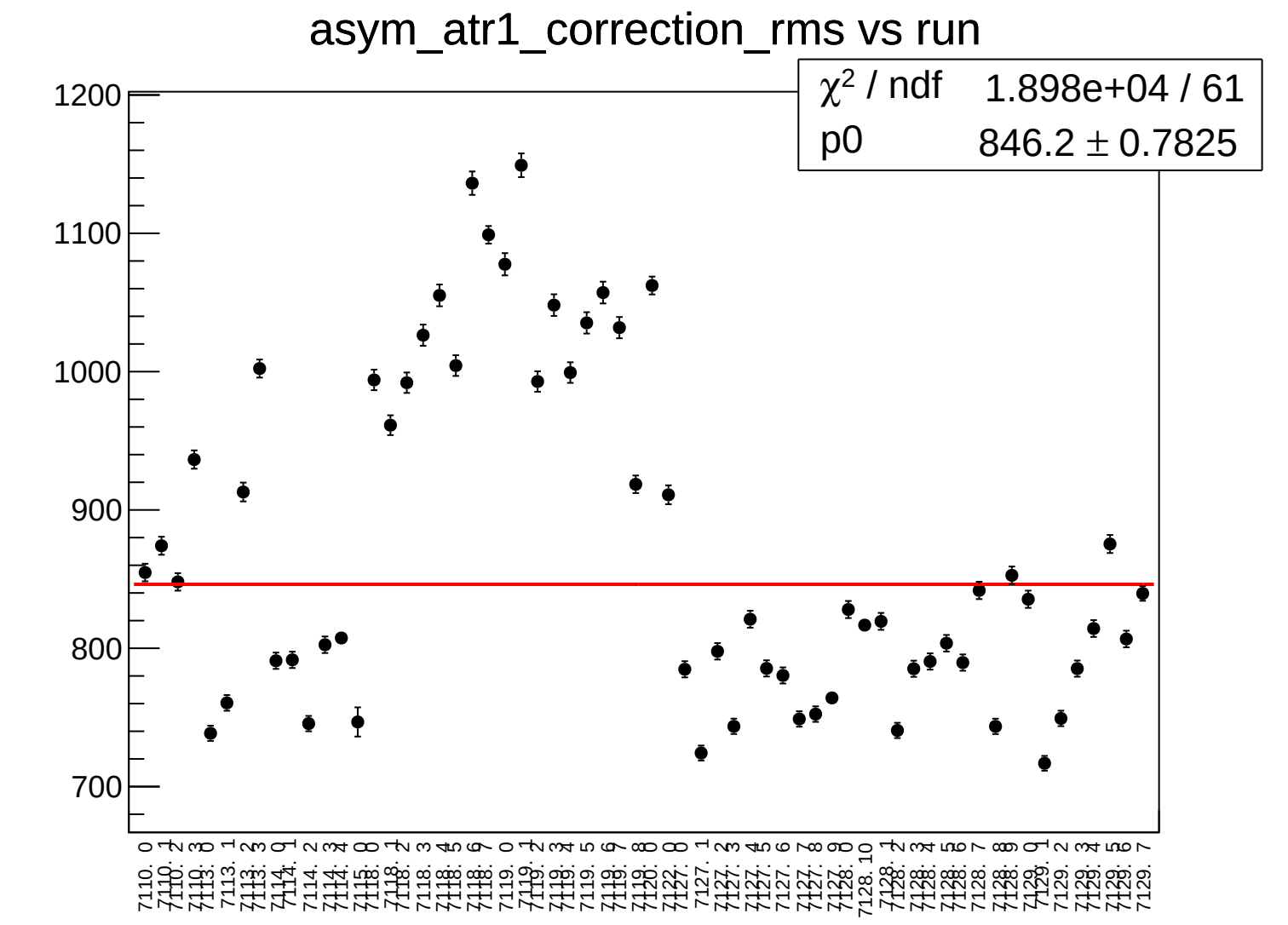

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 89.62 / 61
p0 2587 ± 3634
pull
Entries 62
Mean −92.67
Std Dev 98.32

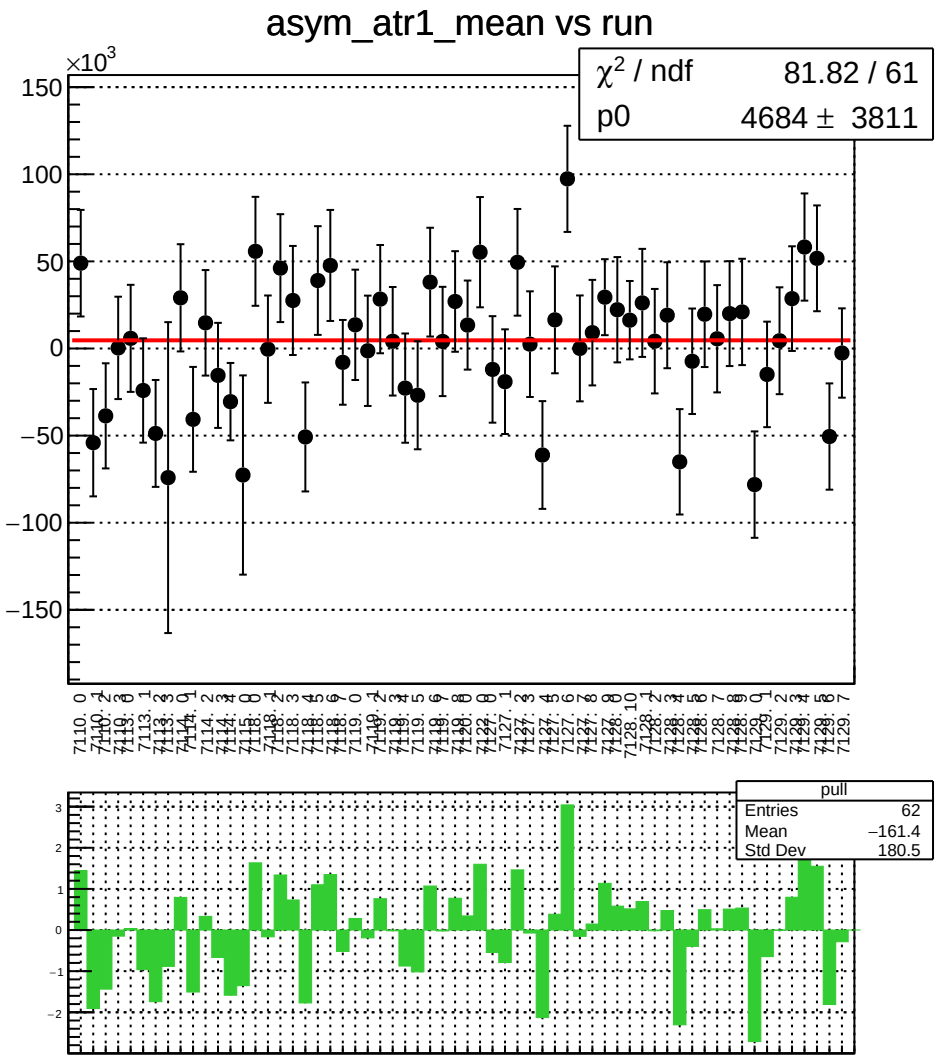

pull1D
Entries 62
Mean −0.01371
Std Dev 1.202

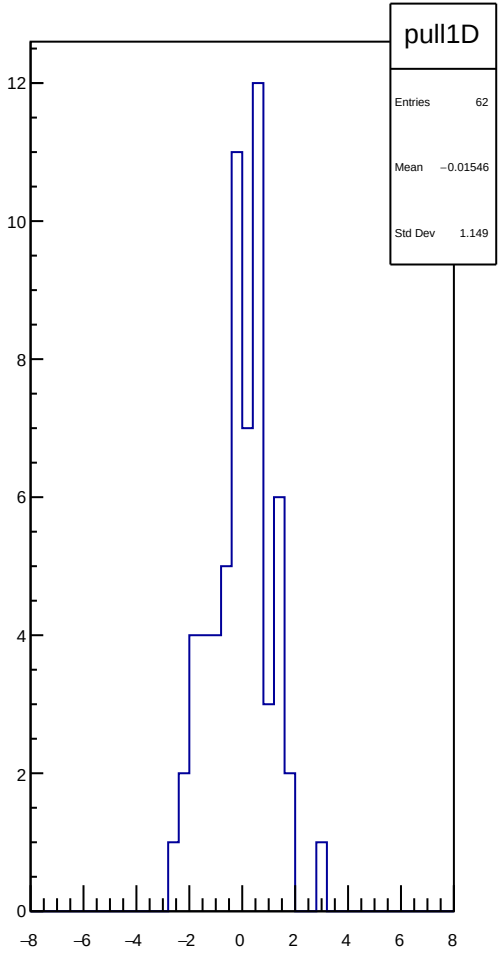

reg_asym_atr1_rms vs run
χ^2 / ndf 1.194e+04 / 61
p0 2787 ± 2.569
10000
9000
8000
7000
6000
5000
4000
3000

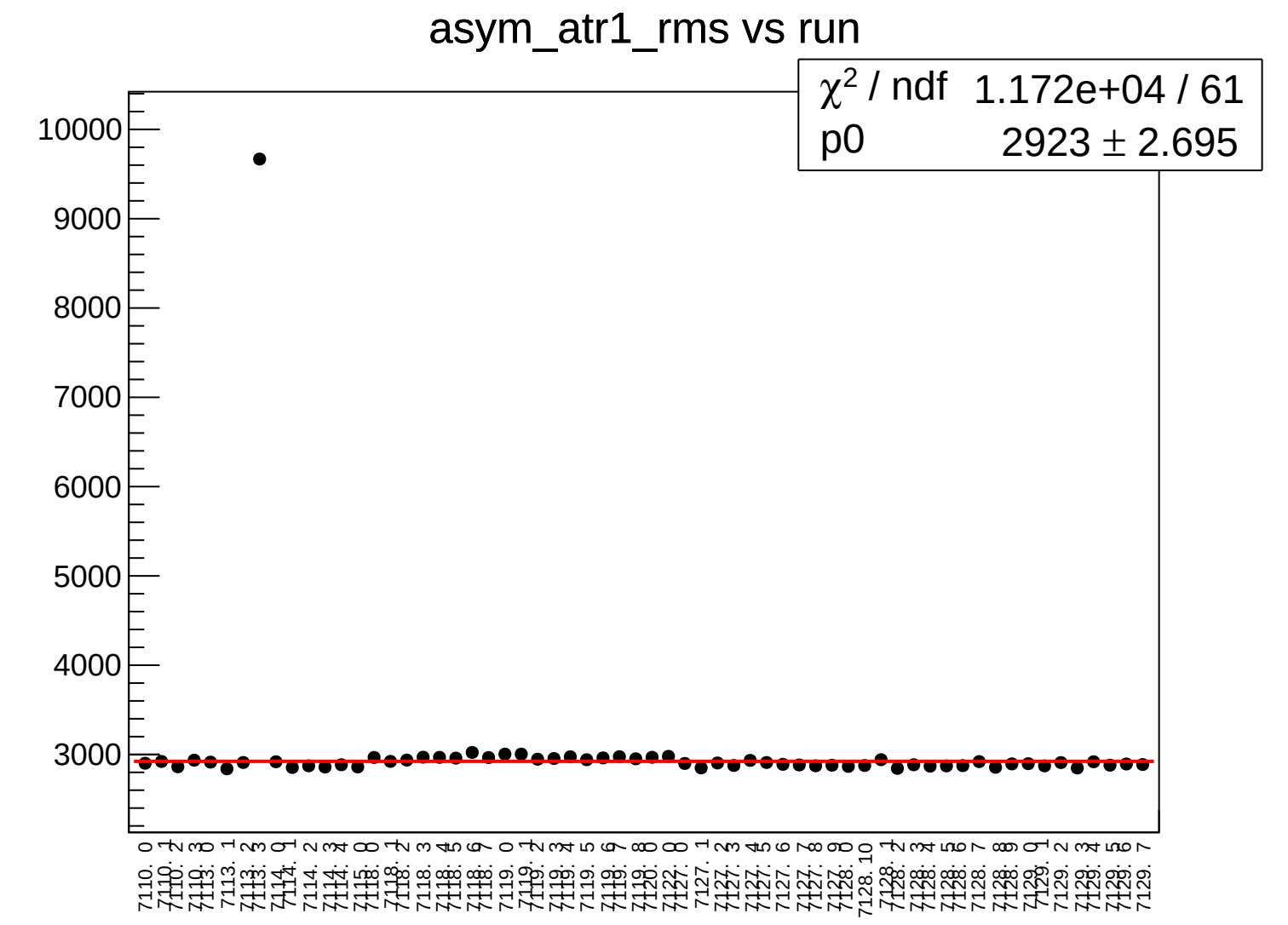

asym_atr1_correction_mean vs run
χ² / ndf 63.42 / 61
p0 −2121 ± 1107
pull
Entries 62
Mean −405.1
Std Dev 437.8

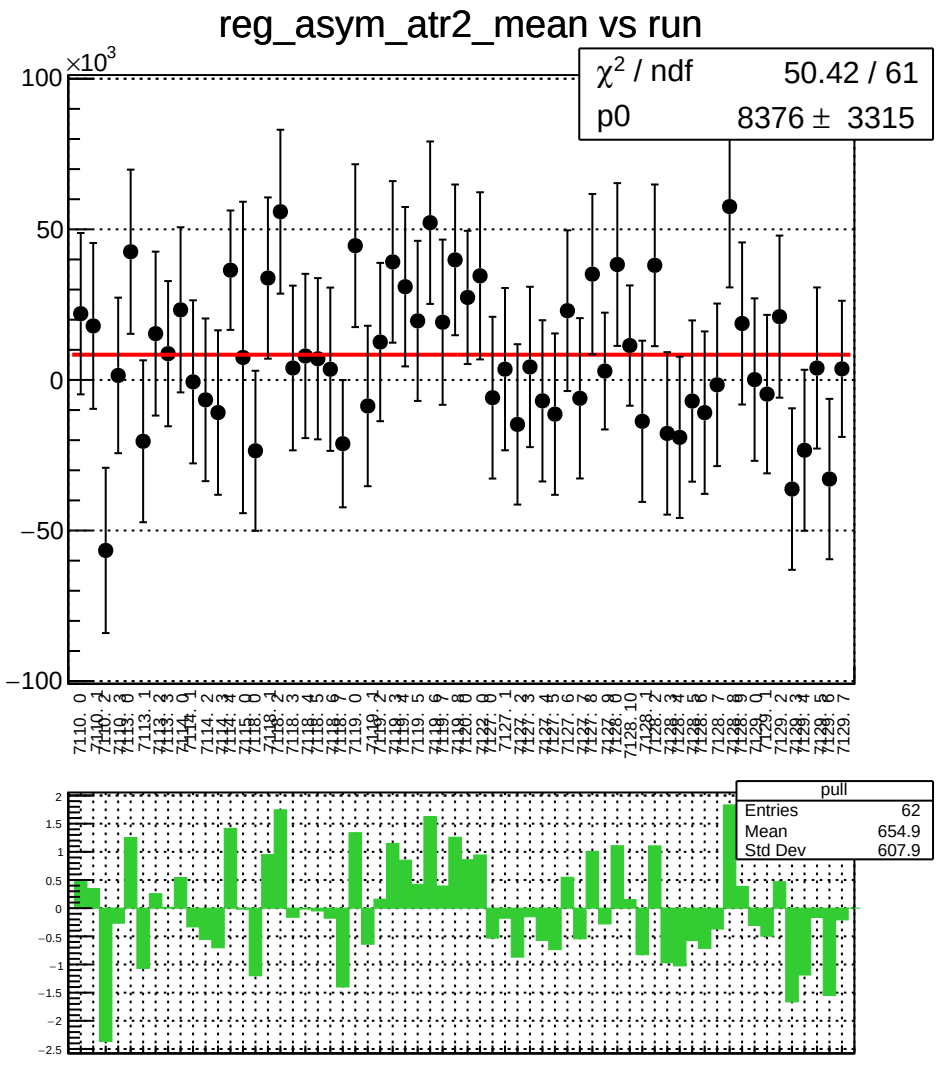

pull1D
Entries 62
Mean 0.01046
Std Dev 1.011

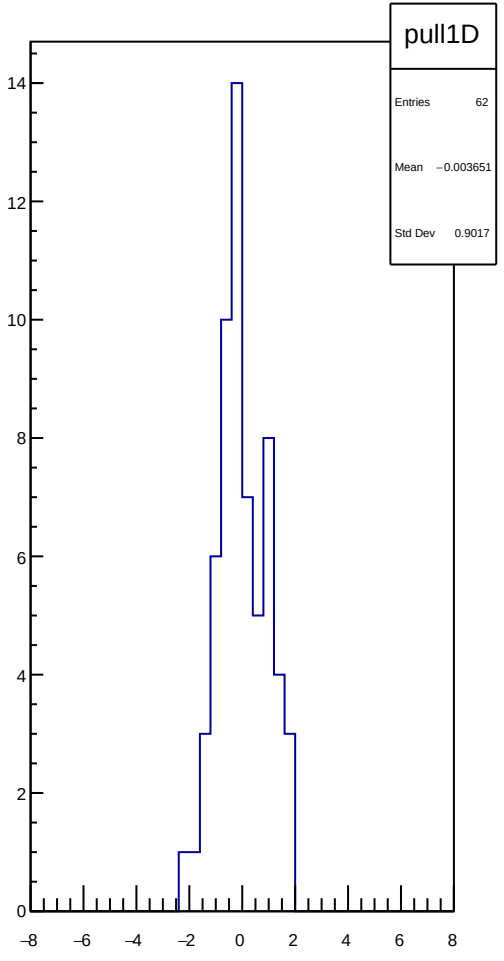

asym_atr1_correction_rms vs run
χ² / ndf 1.898e+04 / 61
p0 846.2 ± 0.7825
1200
1100
1000
900
800
700

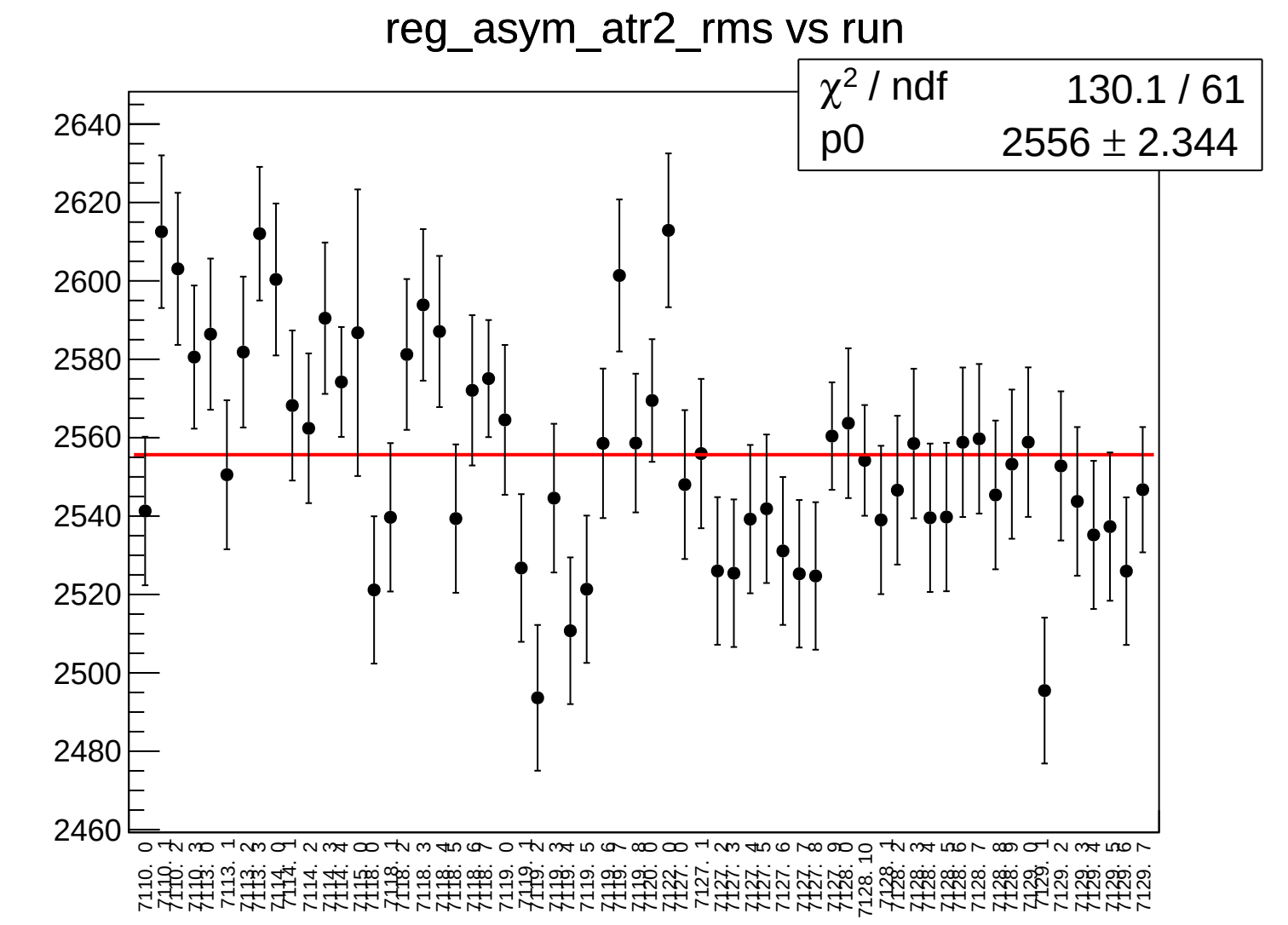

asym_atr1_mean vs run
×10^3
χ² / ndf 81.82 / 61
p0 4684 ± 3811
pull
Entries 62
Mean −161.4
Std Dev 180.5

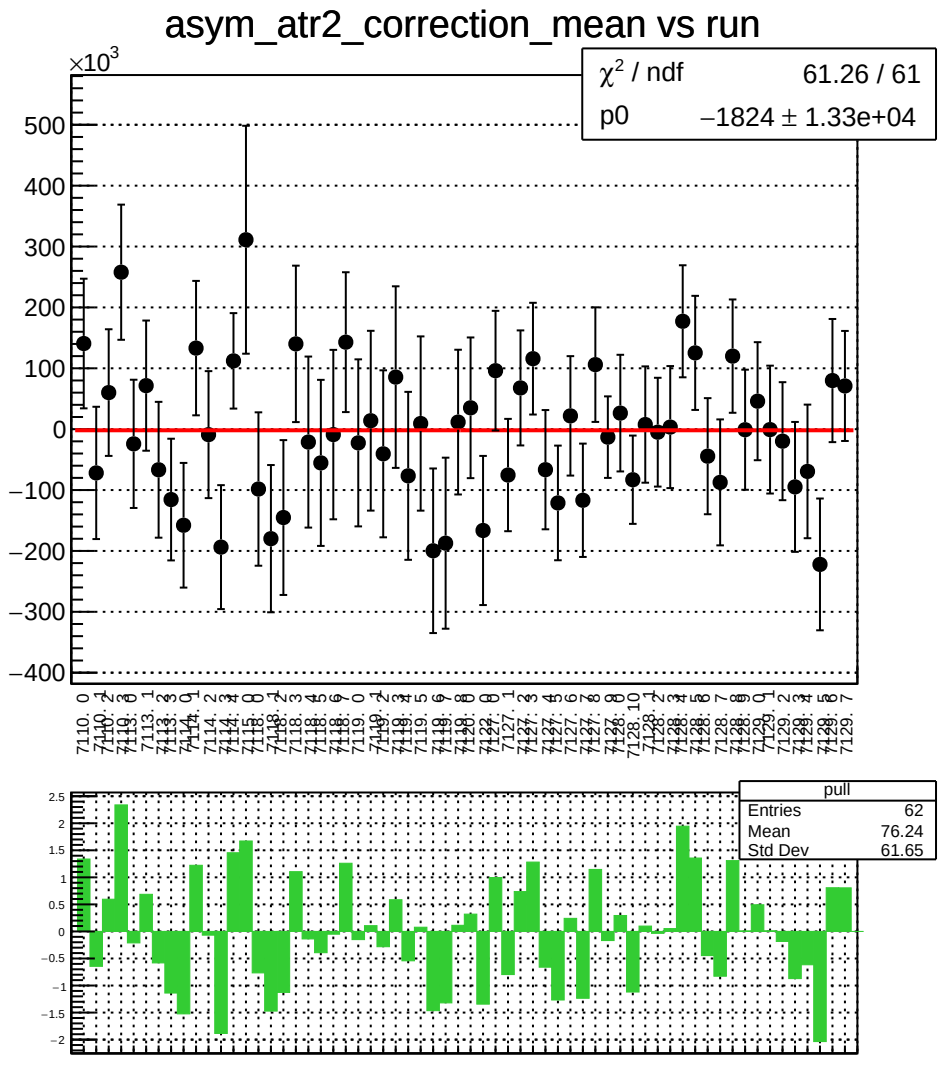

pull1D
Entries 62
Mean −0.01546
Std Dev 1.149

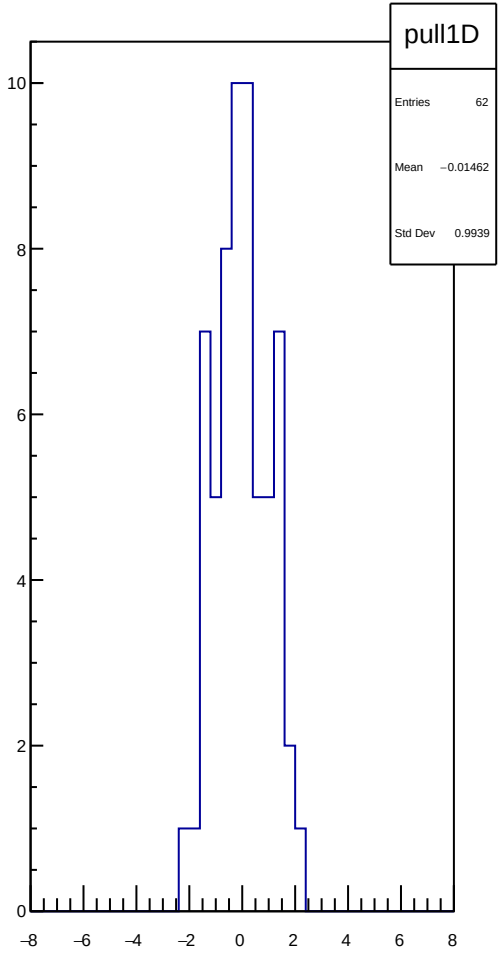

asym_atr1_rms vs run
χ² / ndf 1.172e+04 / 61
p0 2923 ± 2.695
10000
9000
8000
7000
6000
5000
4000
3000

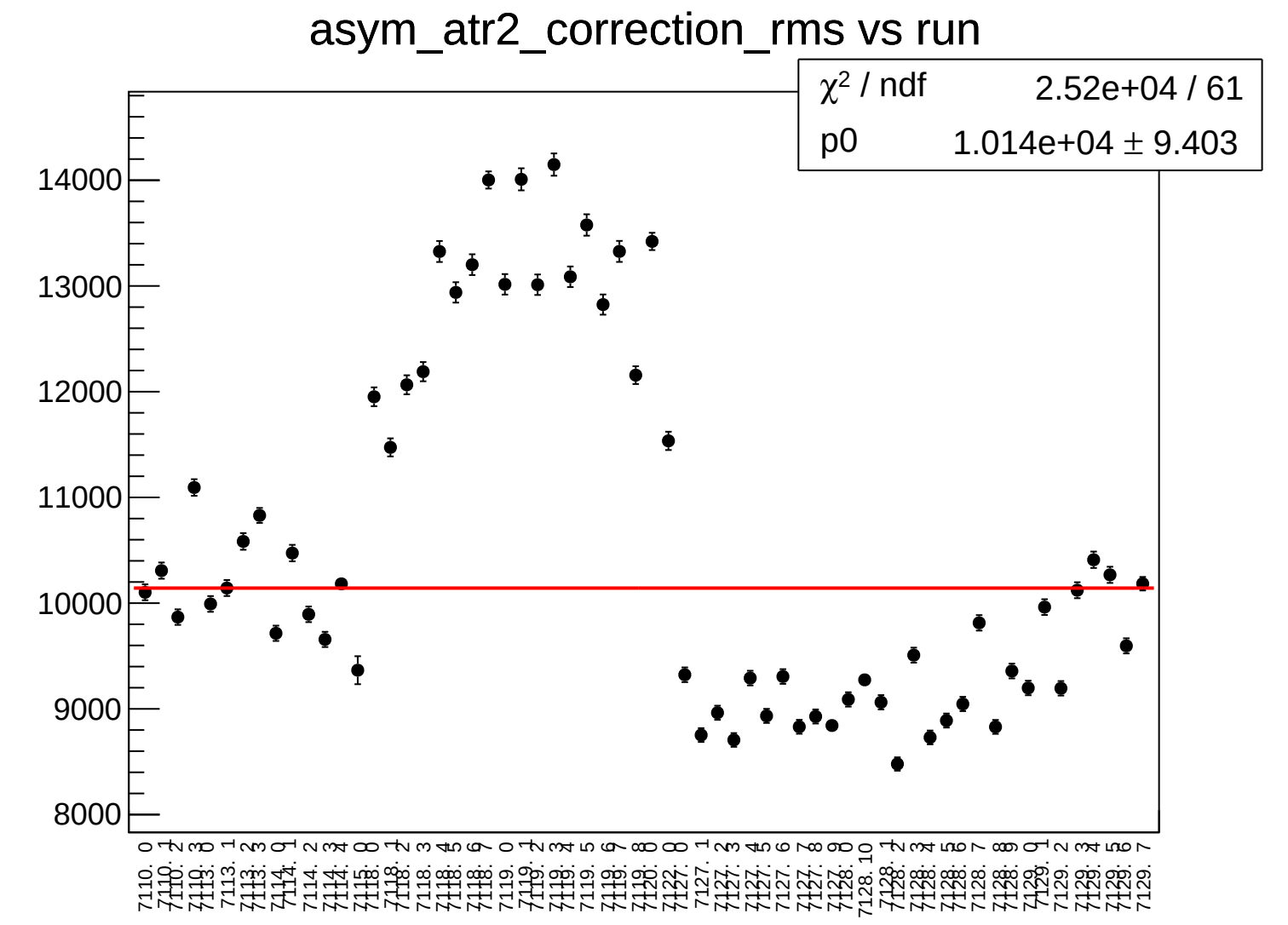

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 50.42 / 61
p0 8376 ± 3315
pull
Entries 62
Mean 654.9
Std Dev 607.9

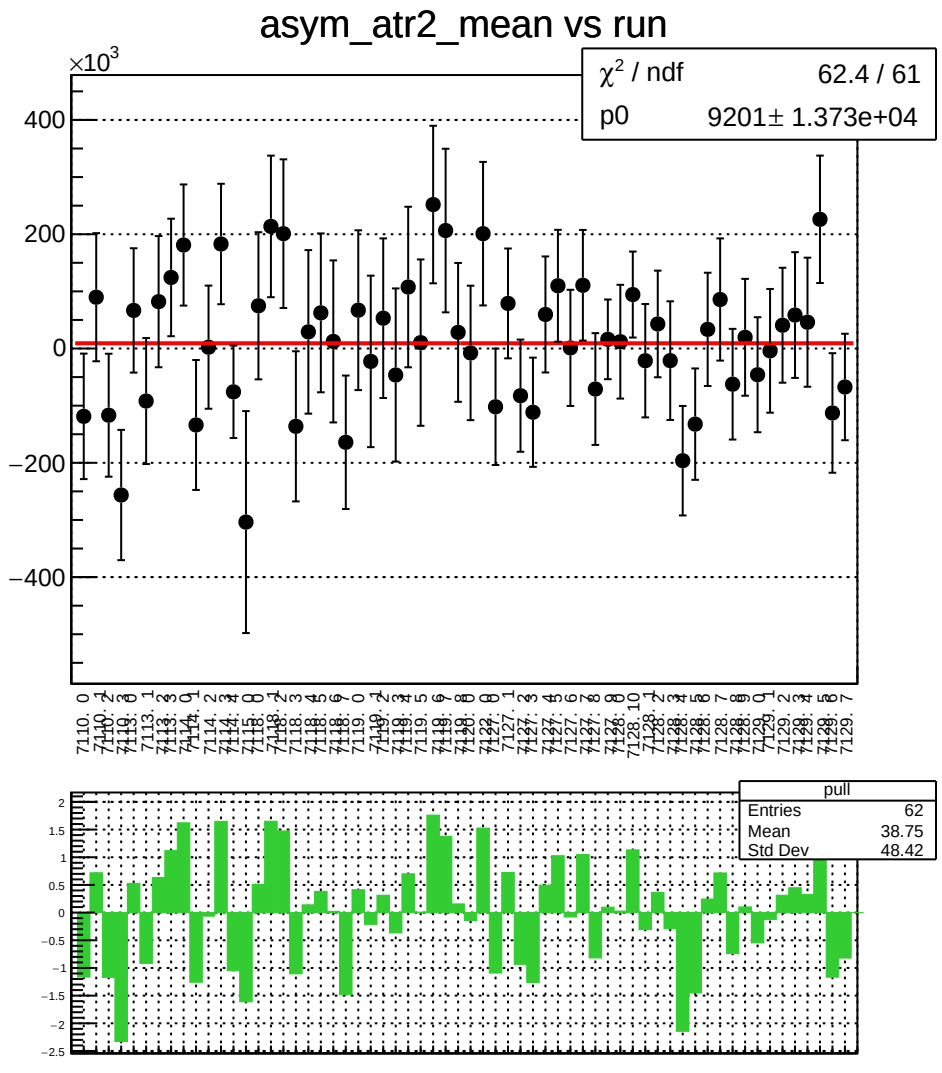

pull1D
Entries 62
Mean −0.003651
Std Dev 0.9017

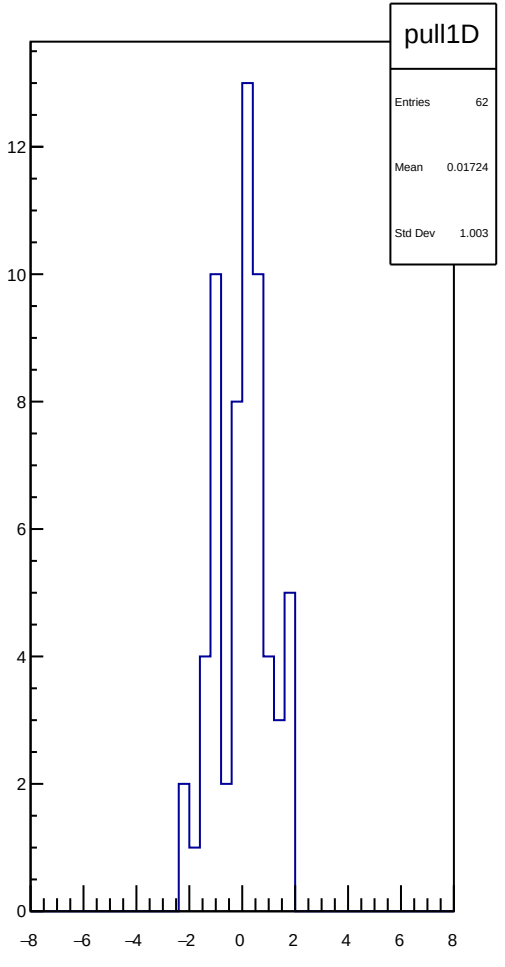

reg_asym_atr2_rms vs run
χ^2 / ndf 130.1 / 61
p0 2556 ± 2.344
2640
2620
2600
2580
2560
2540
2520
2500
2480
2460
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

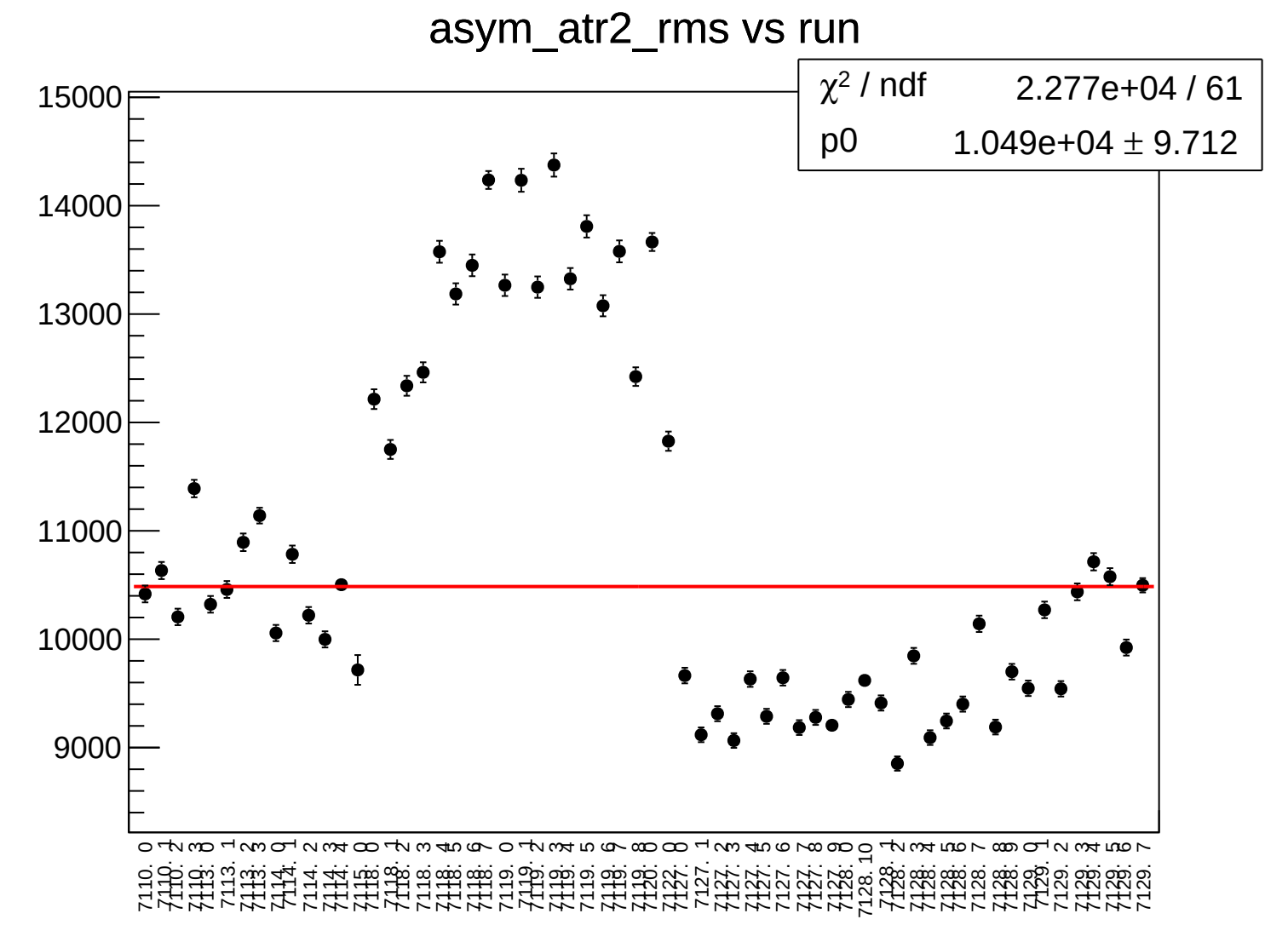

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 61.26 / 61
p0 −1824 ± 1.33e+04
pull
Entries 62
Mean 76.24
Std Dev 61.65

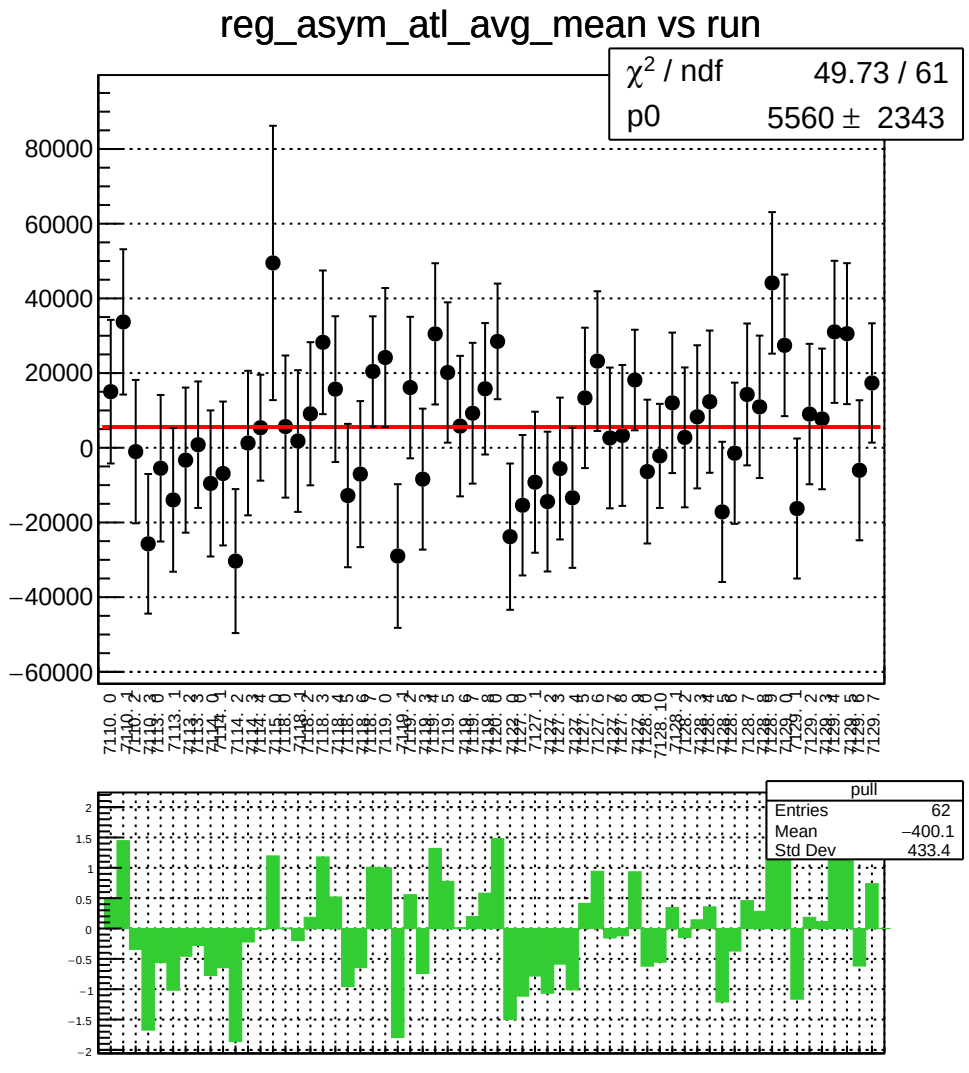

pull1D
Entries 62
Mean −0.01462
Std Dev 0.9939

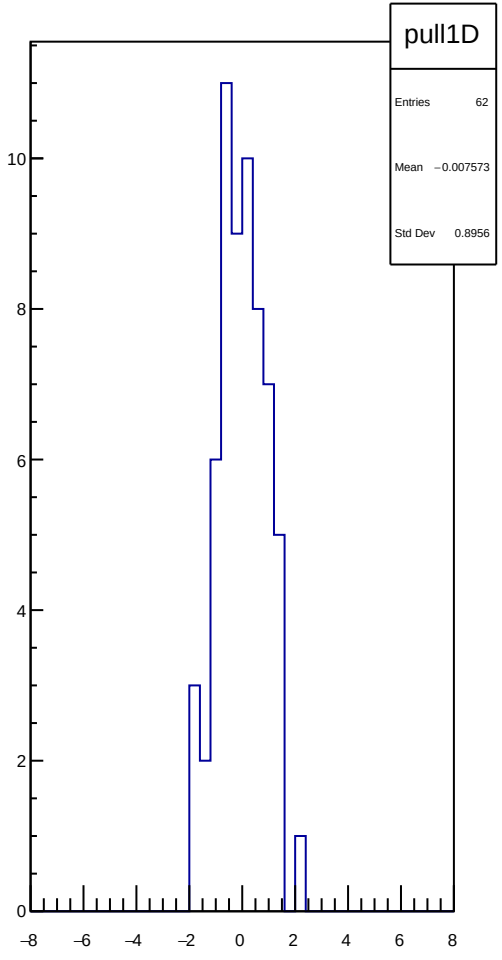

asym_atr2_correction_rms vs run
χ² / ndf 2.52e+04 / 61
p0 1.014e+04 ± 9.403
14000
13000
12000
11000
10000
9000
8000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 1
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

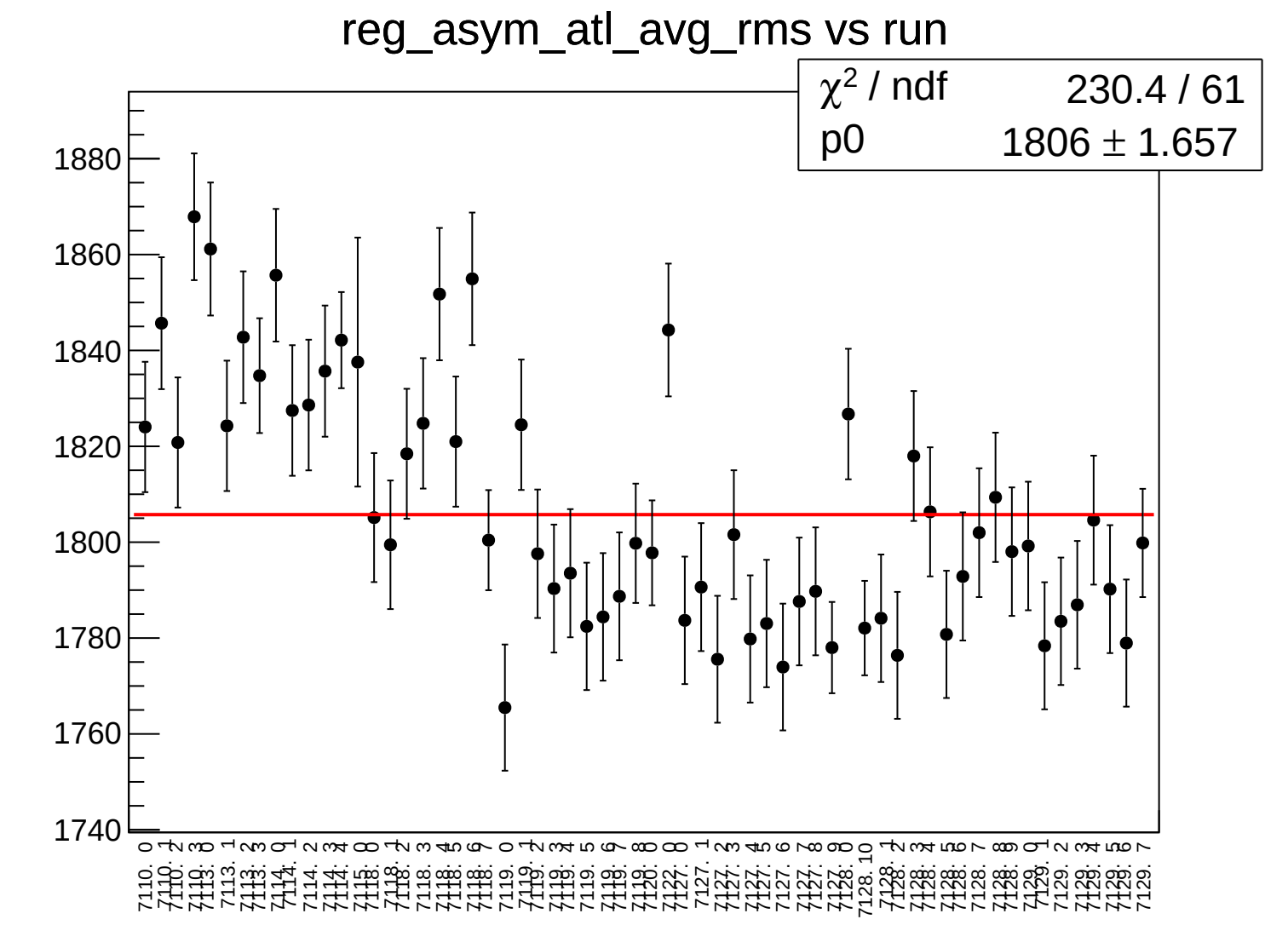

asym_atr2_mean vs run
×10^3
χ² / ndf 62.4 / 61
p0 9201± 1.373e+04
400
200
0
−200
−400
pull
Entries 62
Mean 38.75
Std Dev 48.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

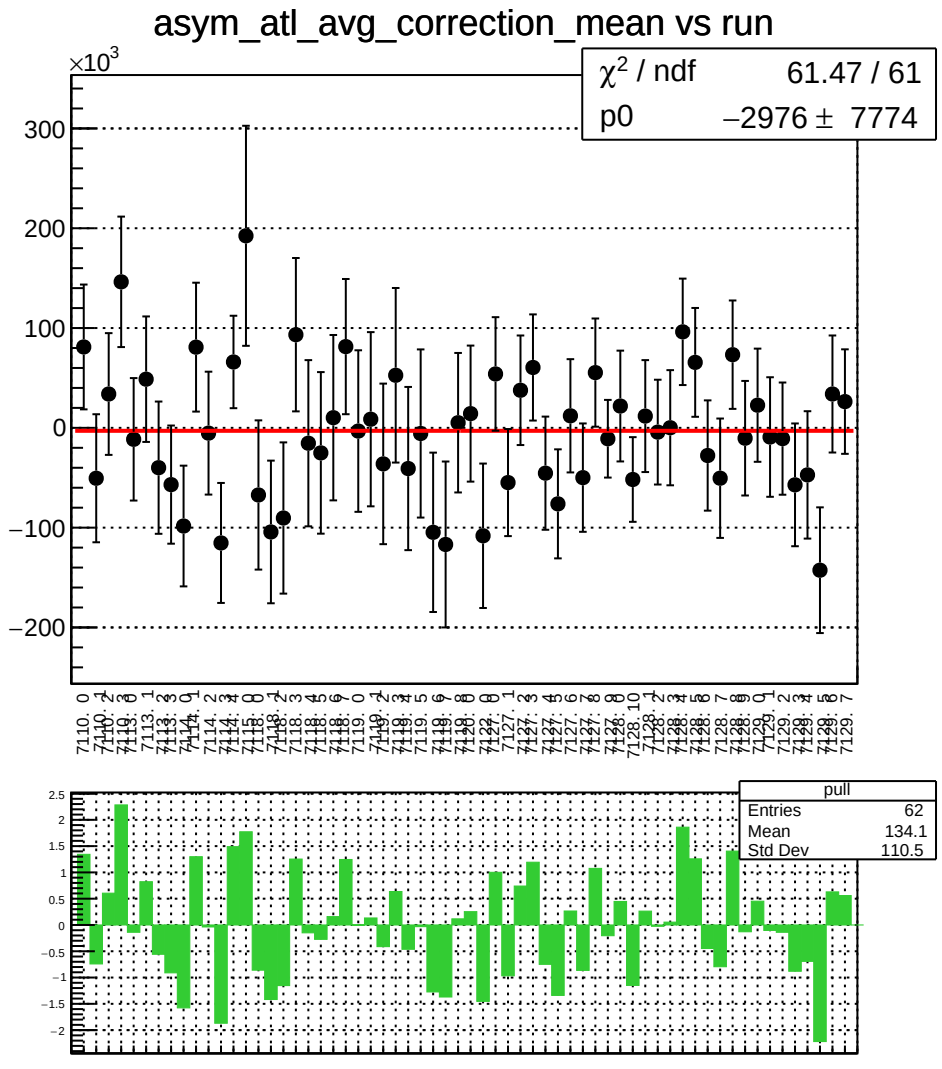

pull1D
Entries 62
Mean 0.01724
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

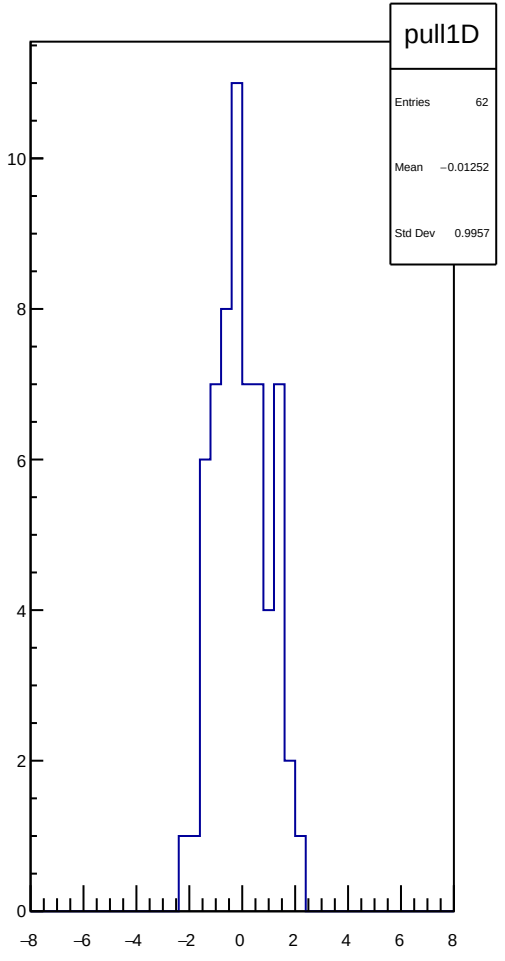

asym_atr2_rms vs run
χ^2 / ndf 2.277e+04 / 61
p0 1.049e+04 ± 9.712
15000
14000
13000
12000
11000
10000
9000

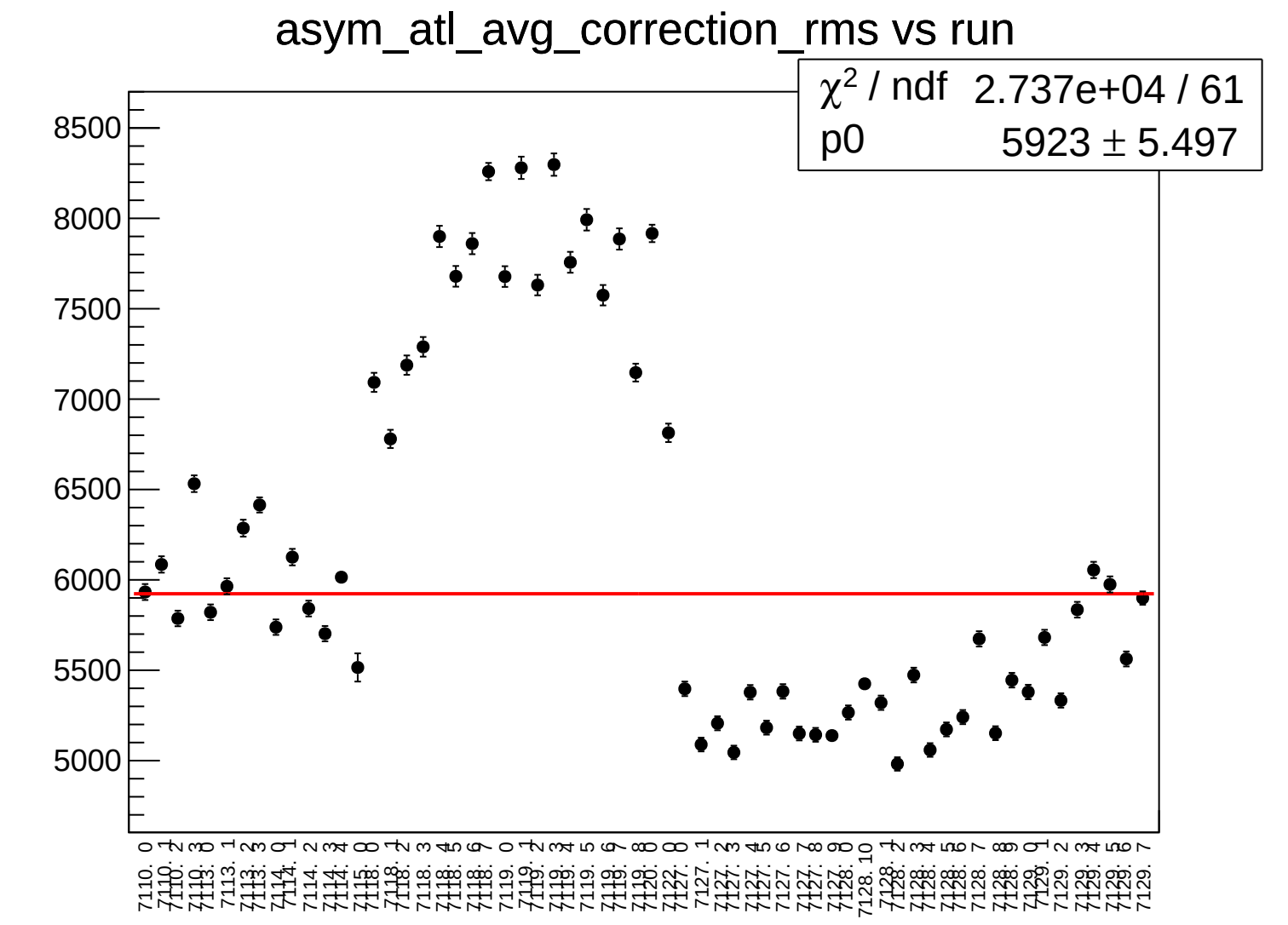

reg_asym_atl_avg_mean vs run
χ² / ndf 49.73 / 61
p0 5560 ± 2343
pull
Entries 62
Mean −400.1
Std Dev 433.4

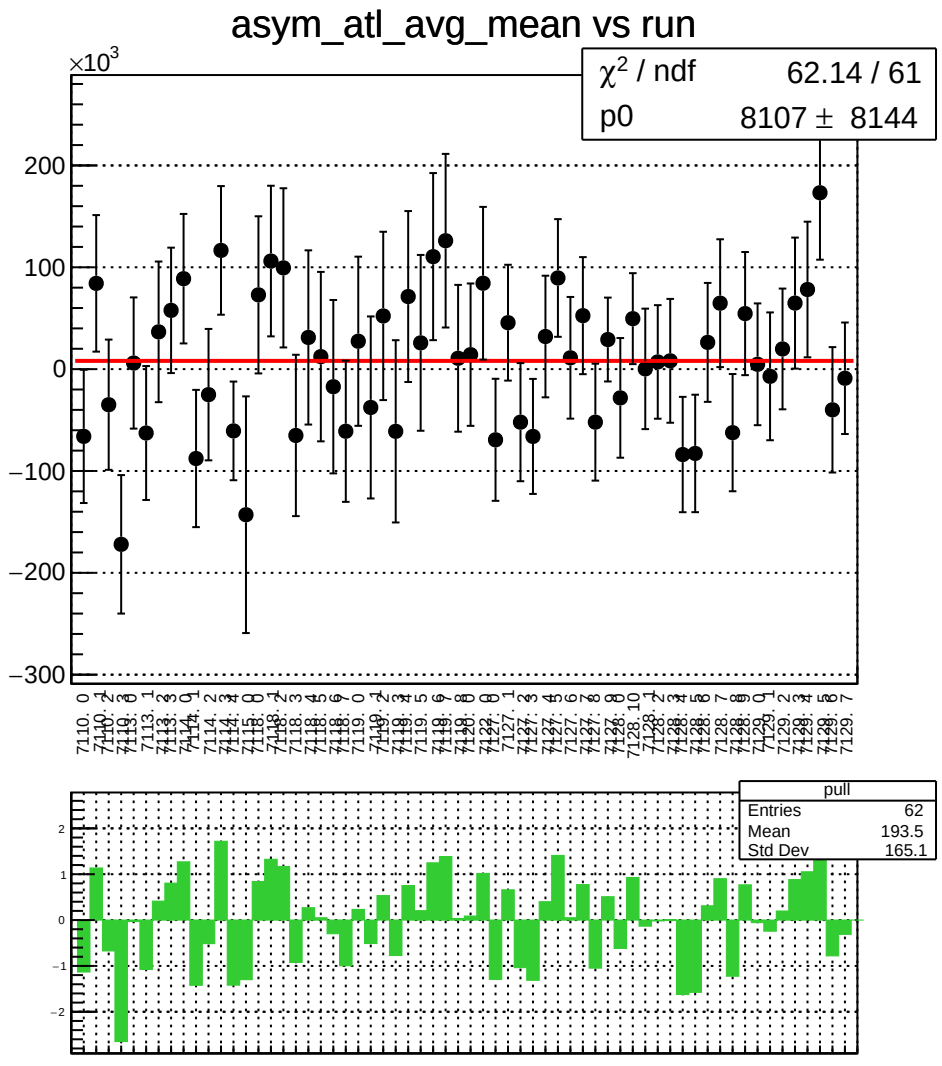

pull1D
Entries 62
Mean −0.007573
Std Dev 0.8956

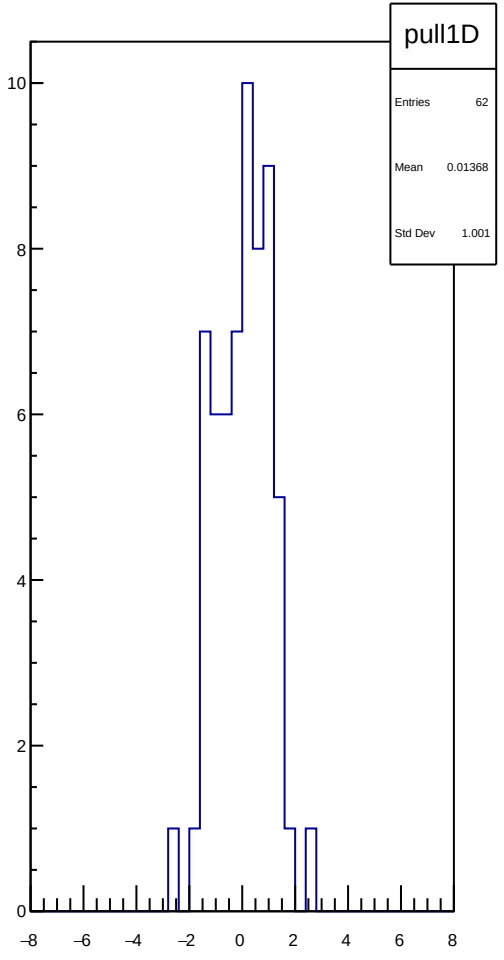

reg_asym_atl_avg_rms vs run
χ^2 / ndf 230.4 / 61
p0 1806 ± 1.657
1880
1860
1840
1820
1800
1780
1760
1740

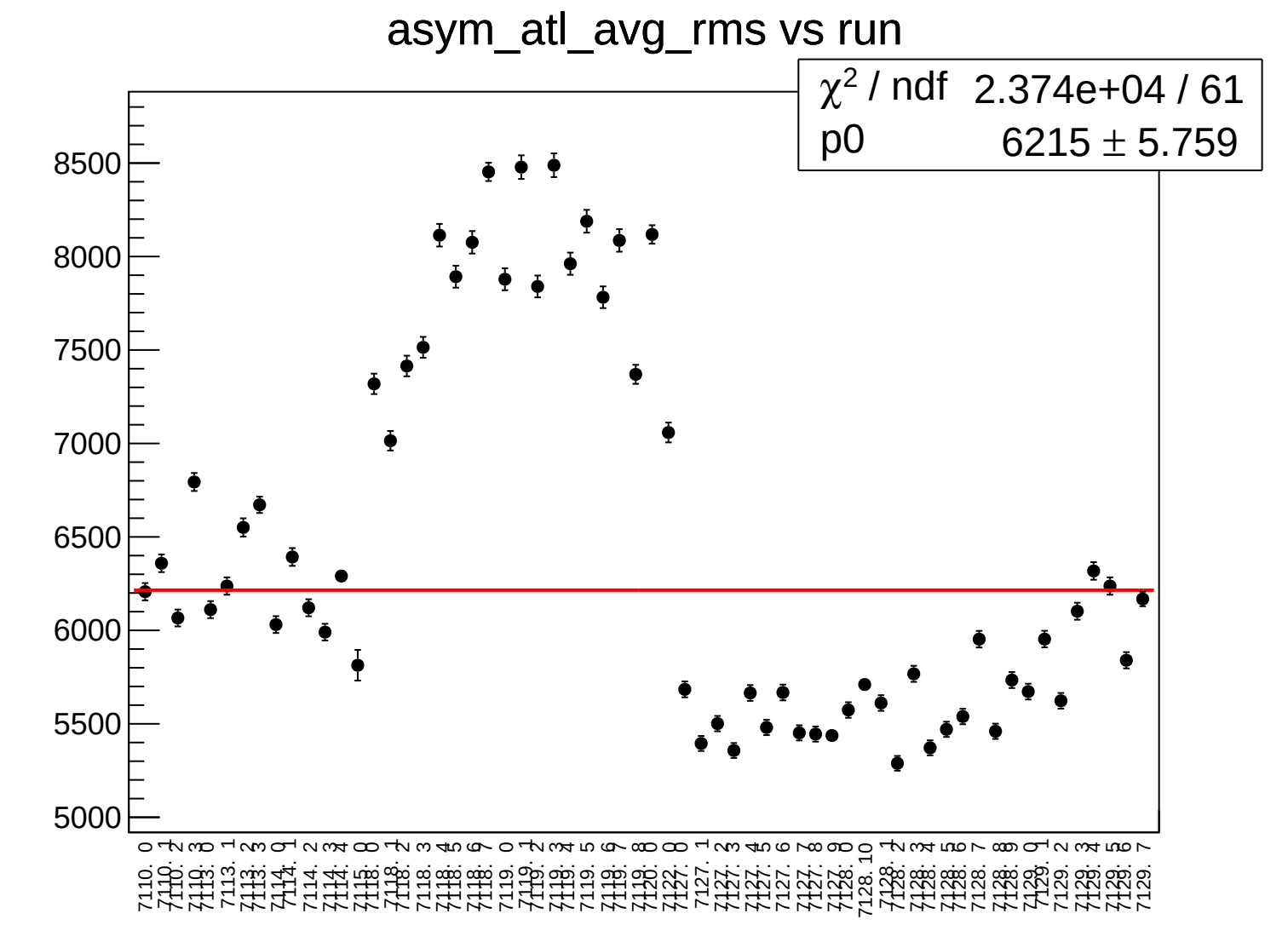

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 61.47 / 61
p0 −2976 ± 7774
300
200
100
0
−100
−200
pull
Entries 62
Mean 134.1
Std Dev 110.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

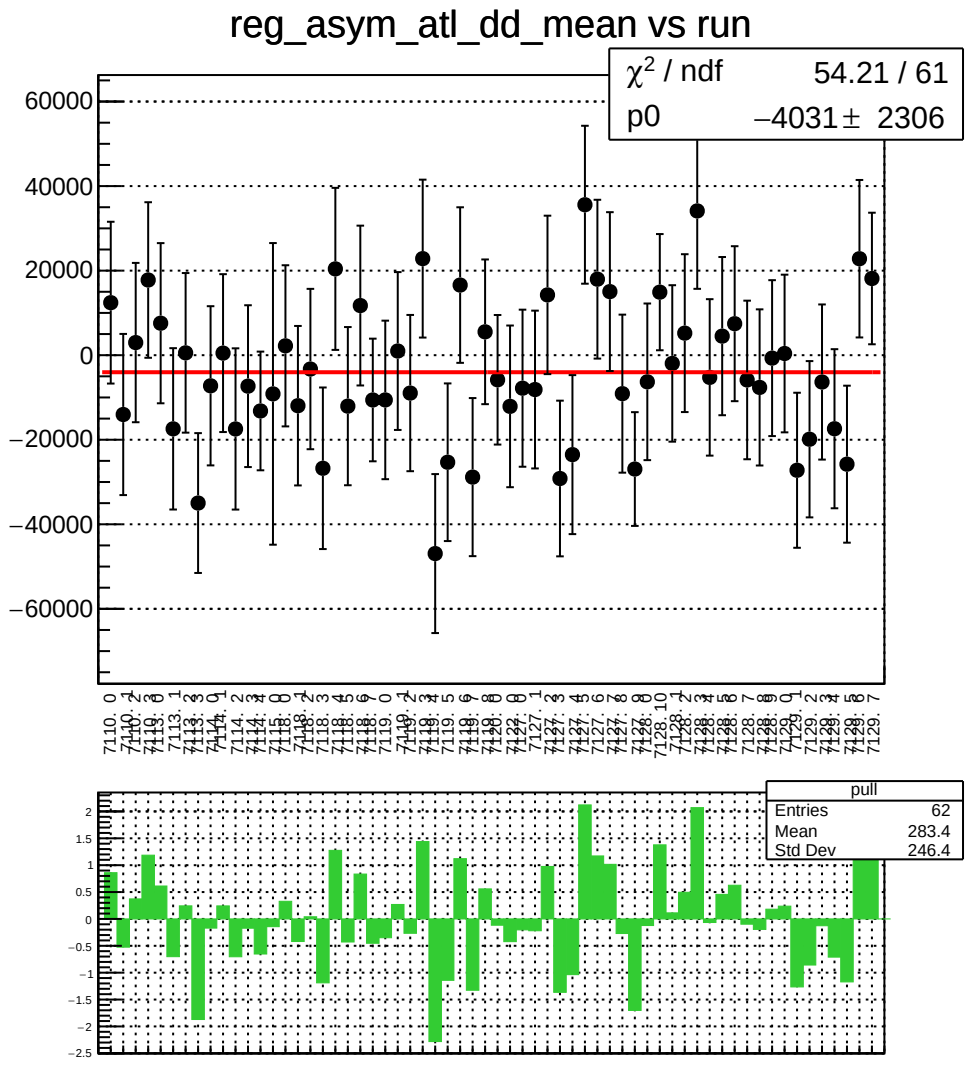

pull1D
Entries 62
Mean −0.01252
Std Dev 0.9957
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

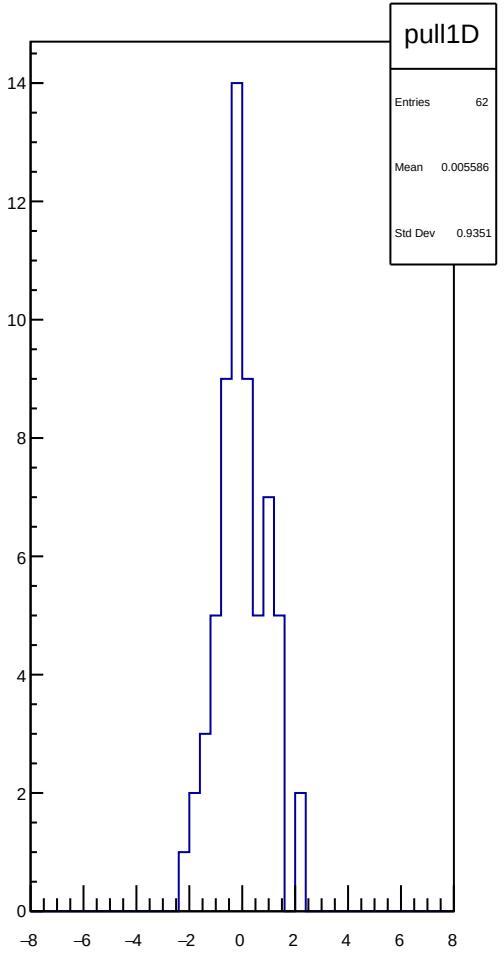

asym_atl_avg_correction_rms vs run
χ^2 / ndf 2.737e+04 / 61
p0 5923 ± 5.497
8500
8000
7500
7000
6500
6000
5500
5000

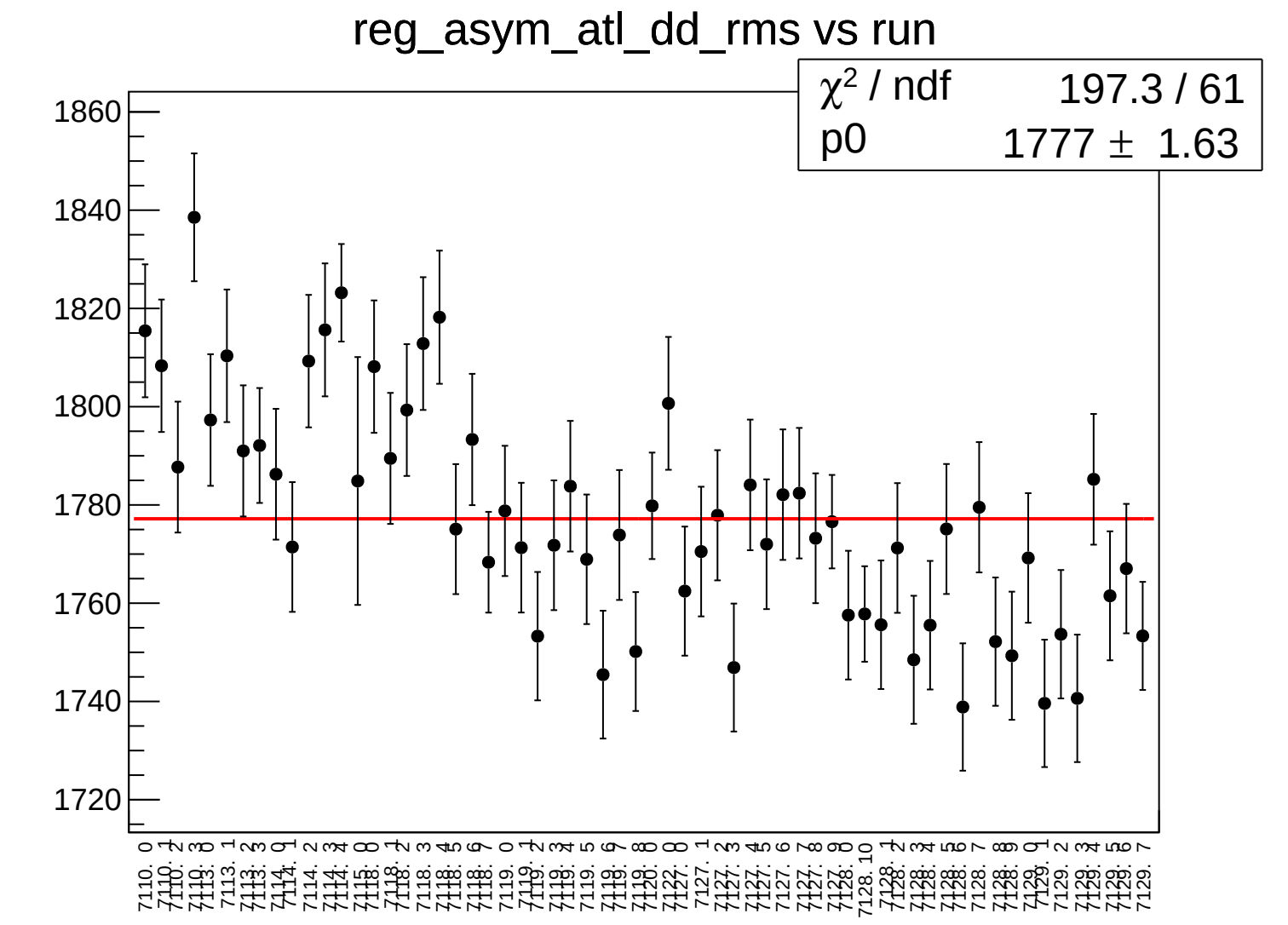

asym_atl_avg_mean vs run
×10^3
χ² / ndf 62.14 / 61
p0 8107 ± 8144
200
100
0
−100
−200
−300
pull
Entries 62
Mean 193.5
Std Dev 165.1
2
1
0
−1
−2

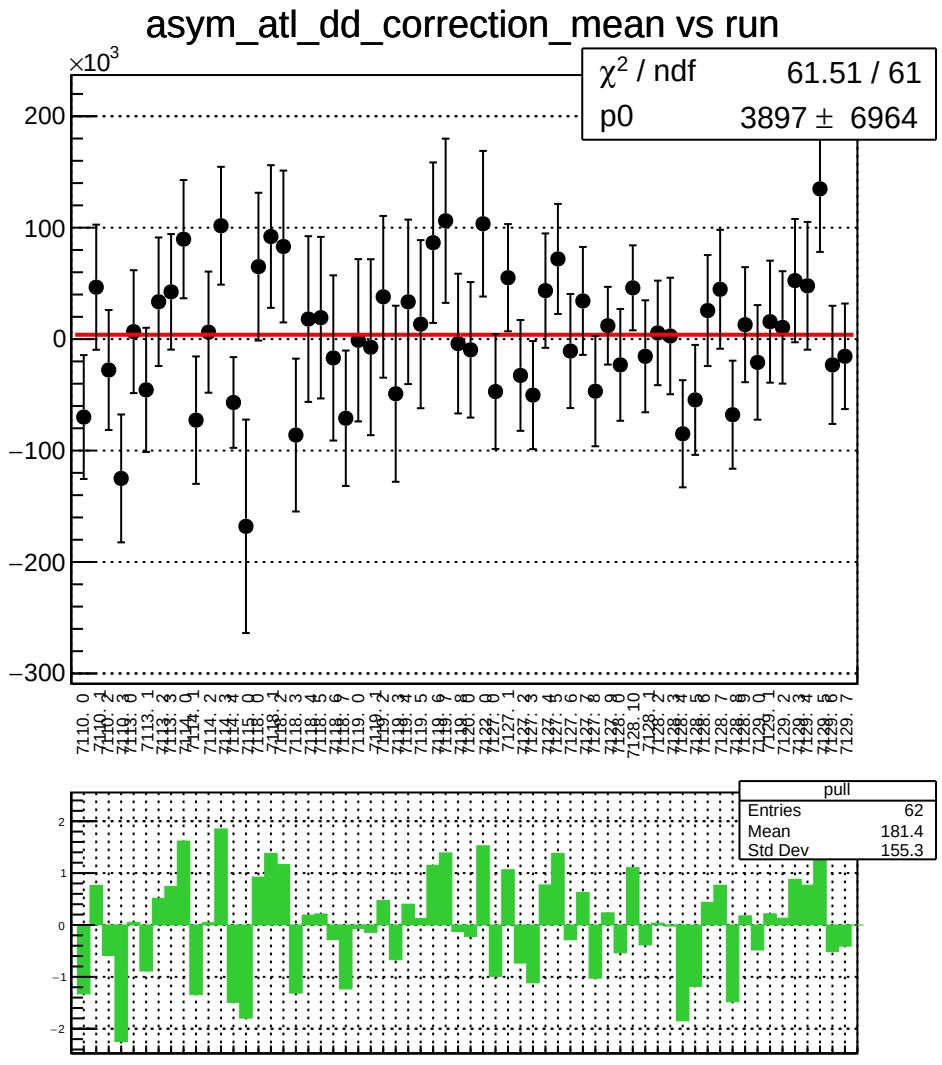

pull1D
Entries 62
Mean 0.01368
Std Dev 1.001
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

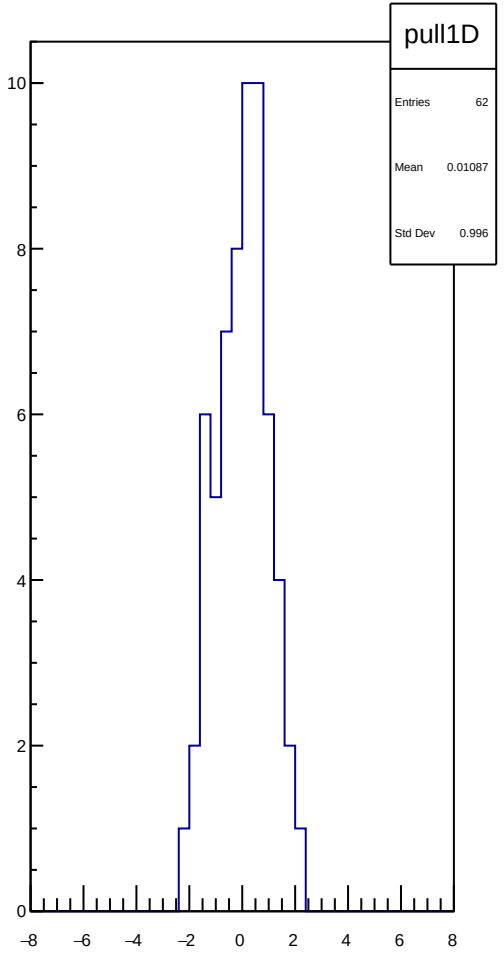

asym_atl_avg_rms vs run
χ^2 / ndf 2.374e+04 / 61
p0 6215 ± 5.759
8500
8000
7500
7000
6500
6000
5500
5000
7110. 0
7110. 1
7110. 2
7110. 3
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

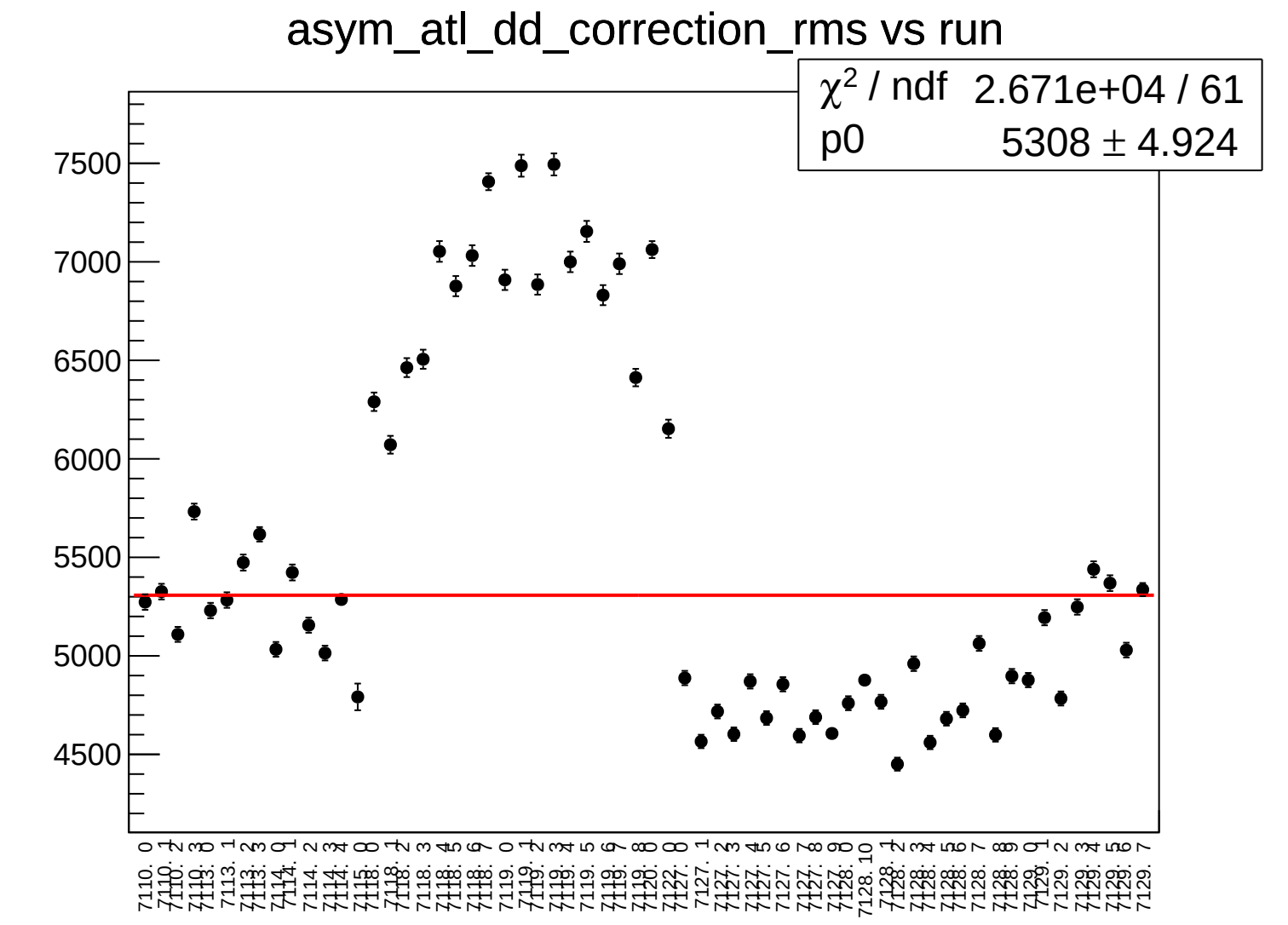

reg_asym_atl_dd_mean vs run
χ² / ndf 54.21 / 61
p0 −4031 ± 2306
pull
Entries 62
Mean 283.4
Std Dev 246.4

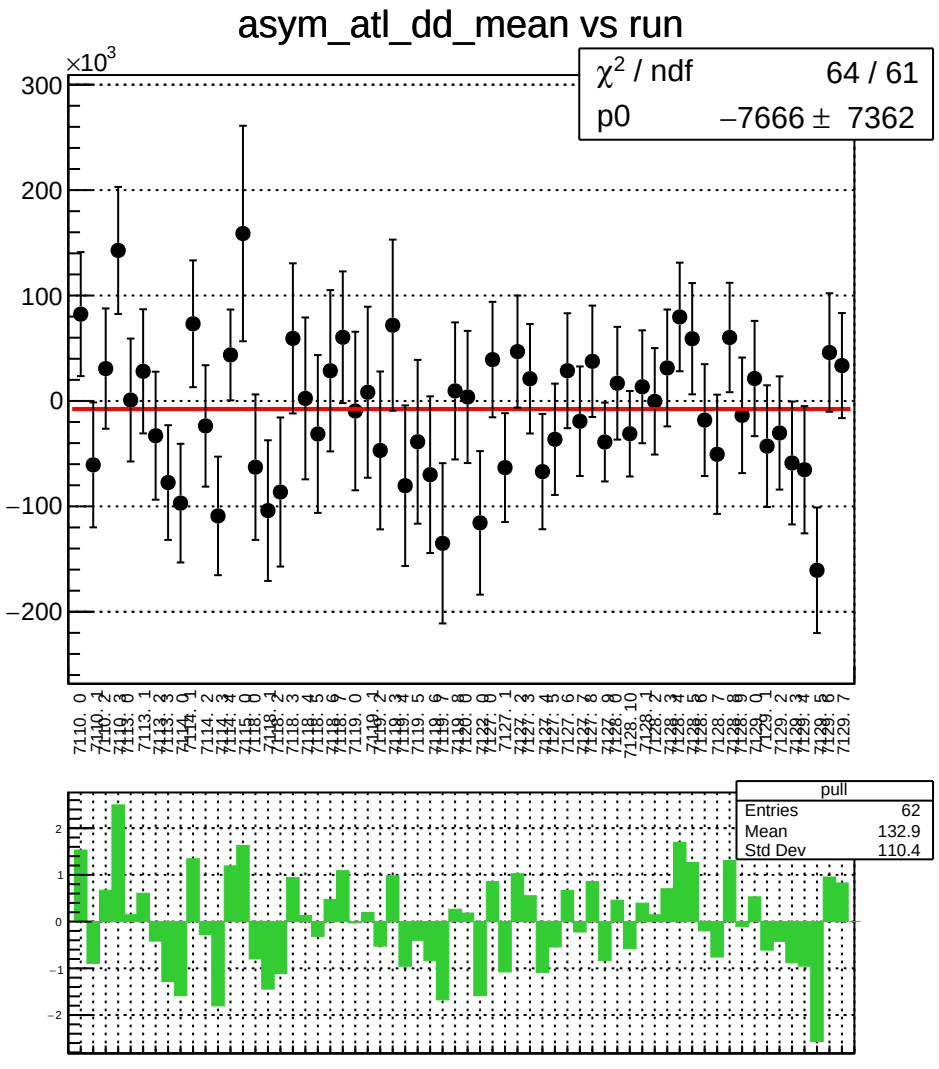

pull1D
Entries 62
Mean 0.005586
Std Dev 0.9351

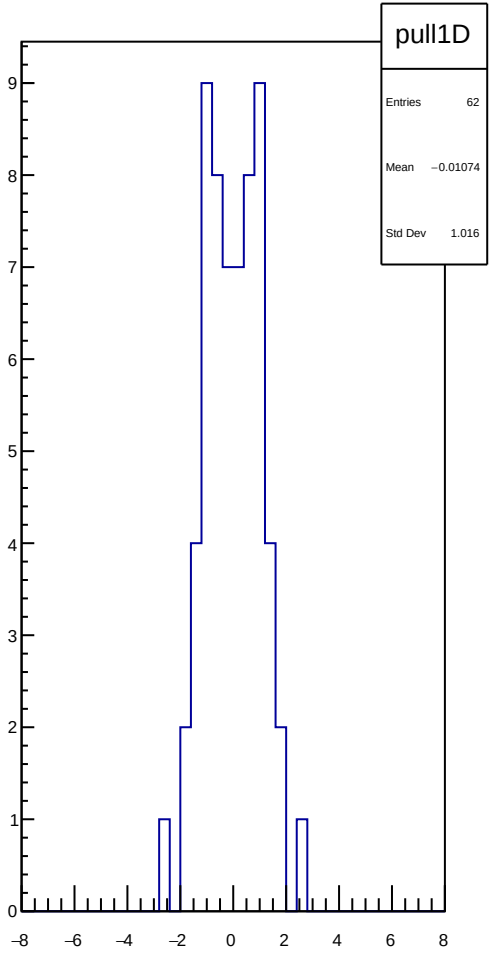

reg_asym_atl_dd_rms vs run
χ² / ndf 197.3 / 61
p0 1777 ± 1.63
1860
1840
1820
1800
1780
1760
1740
1720

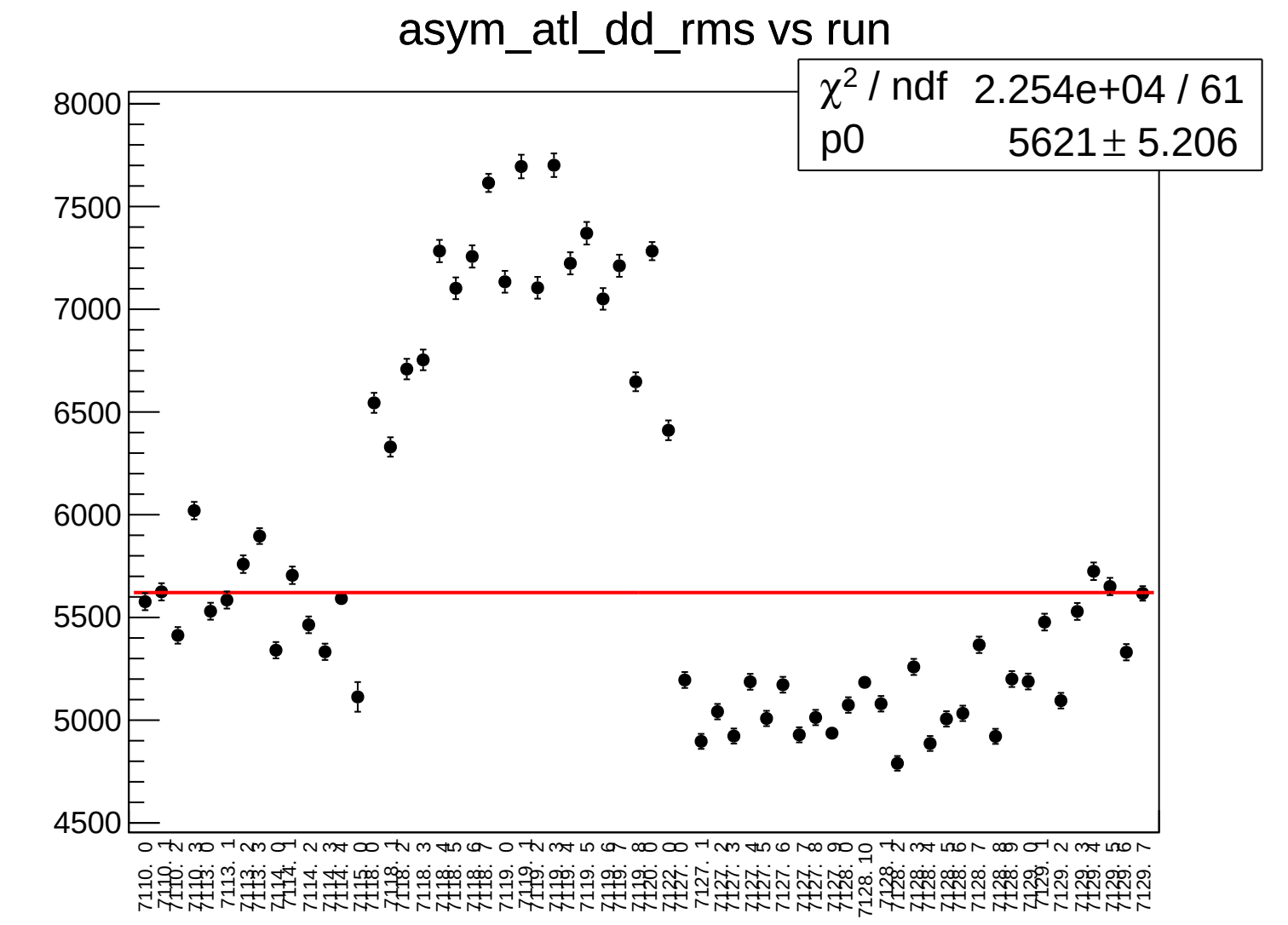

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 61.51 / 61
p0 3897 ± 6964
200
100
0
−100
−200
−300
pull
Entries 62
Mean 181.4
Std Dev 155.3
2
1
0
−1
−2

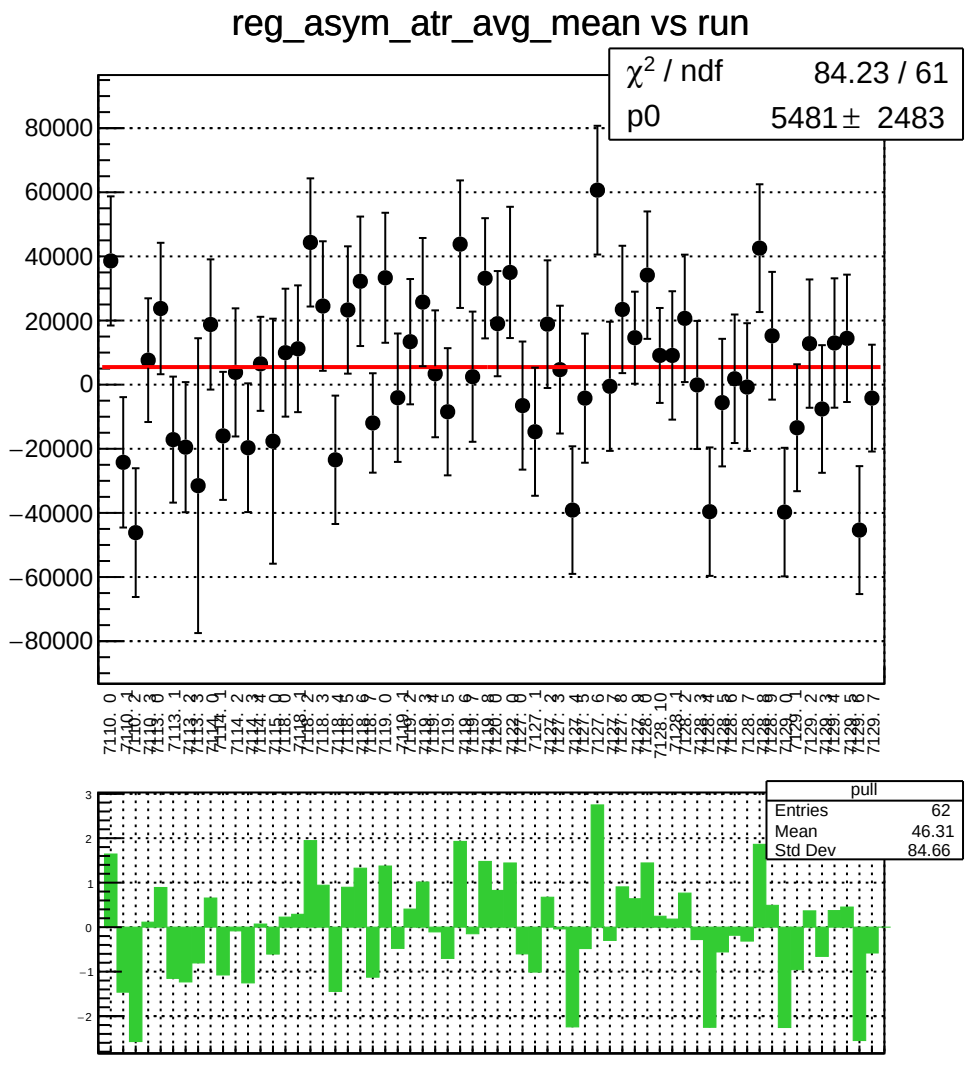

pull1D
Entries 62
Mean 0.01087
Std Dev 0.996
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

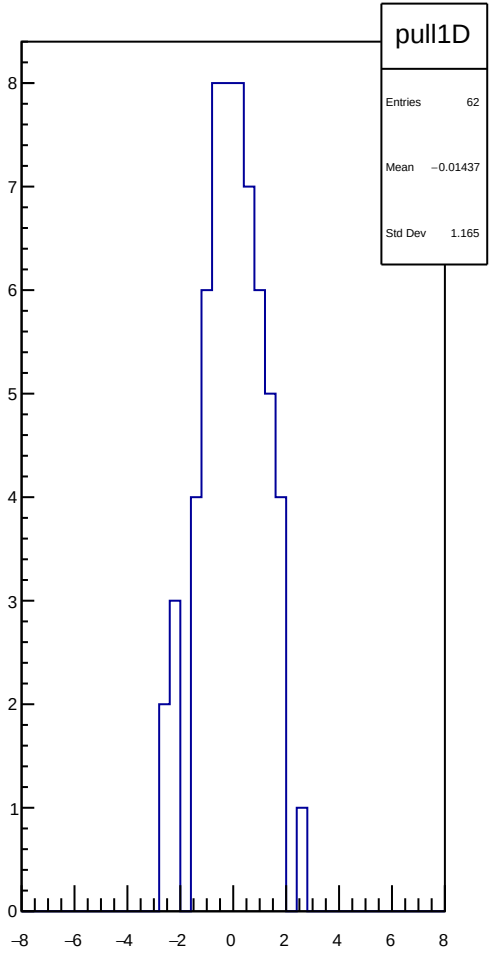

asym_atl_dd_correction_rms vs run
χ² / ndf 2.671e+04 / 61
p0 5308 ± 4.924
7500
7000
6500
6000
5500
5000
4500

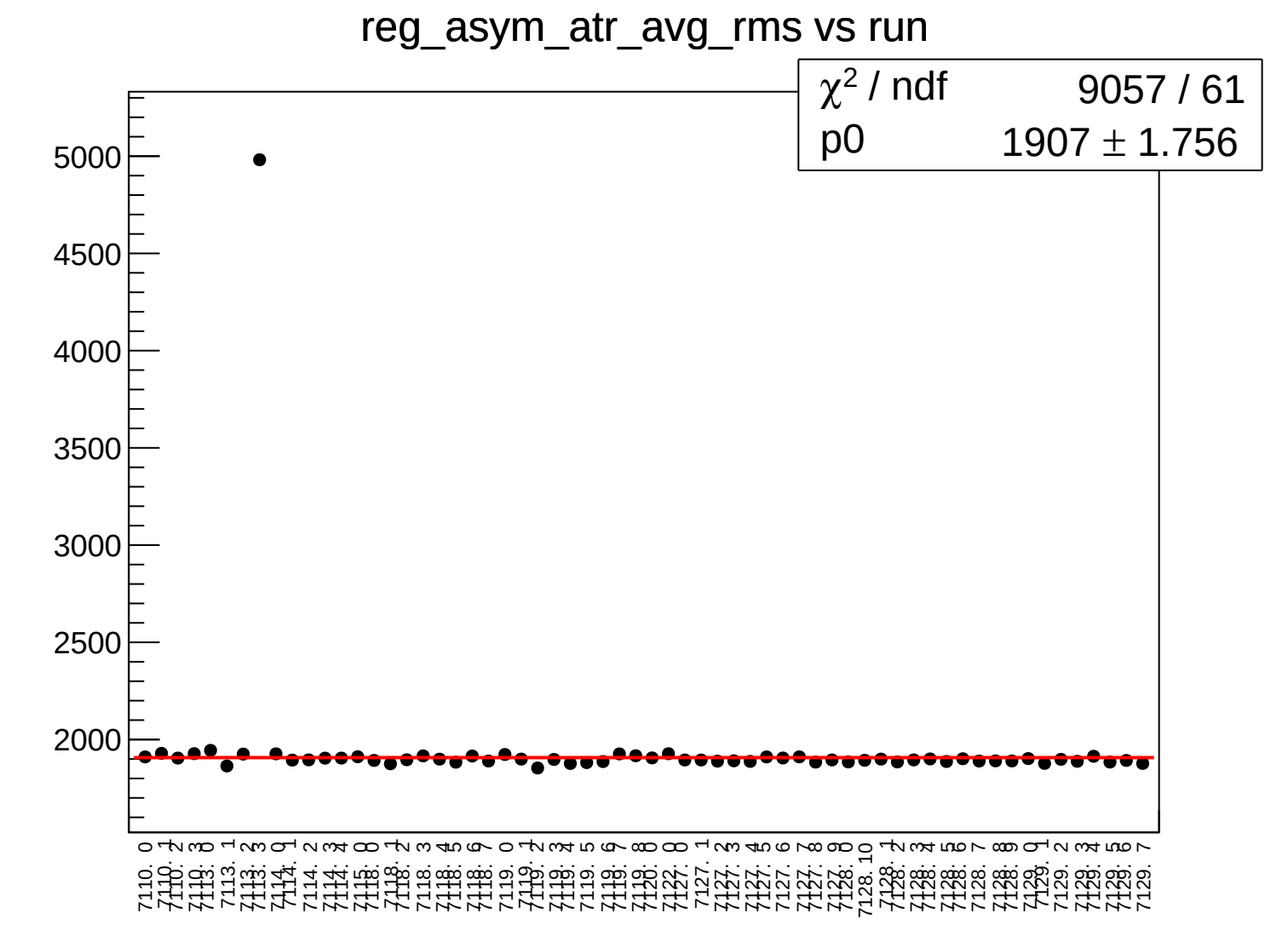

asym_atl_dd_mean vs run
×10^3
χ² / ndf 64 / 61
p0 −7666 ± 7362
pull
Entries 62
Mean 132.9
Std Dev 110.4

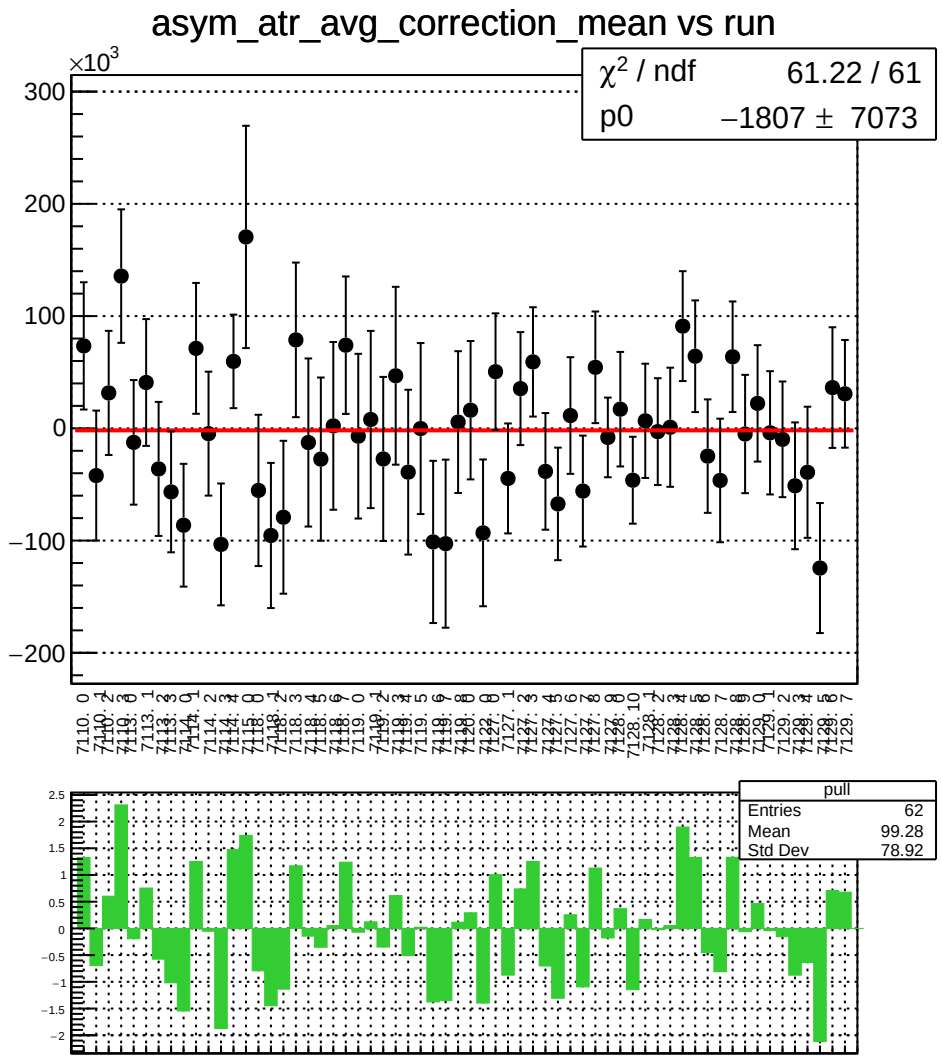

pull1D
Entries 62
Mean −0.01074
Std Dev 1.016

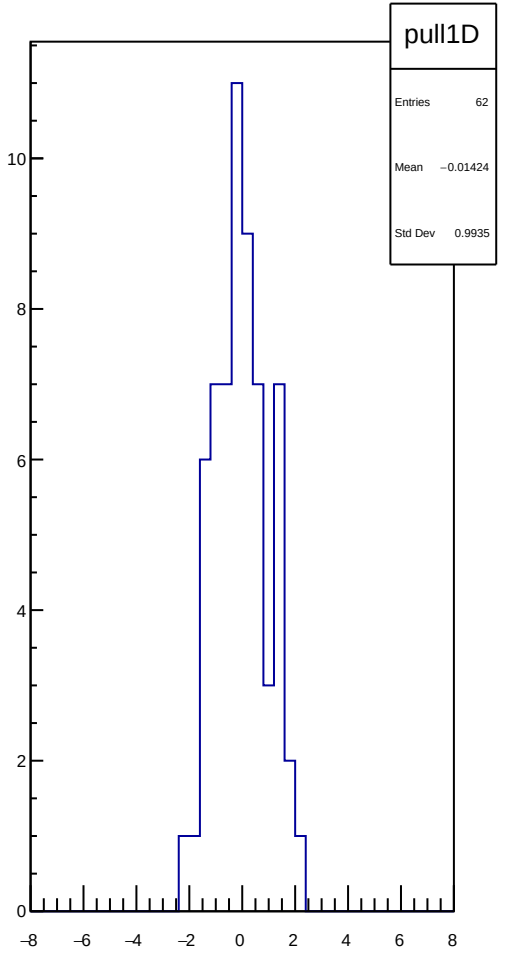

asym_atl_dd_rms vs run
χ² / ndf 2.254e+04 / 61
p0 5621 ± 5.206
8000
7500
7000
6500
6000
5500
5000
4500
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

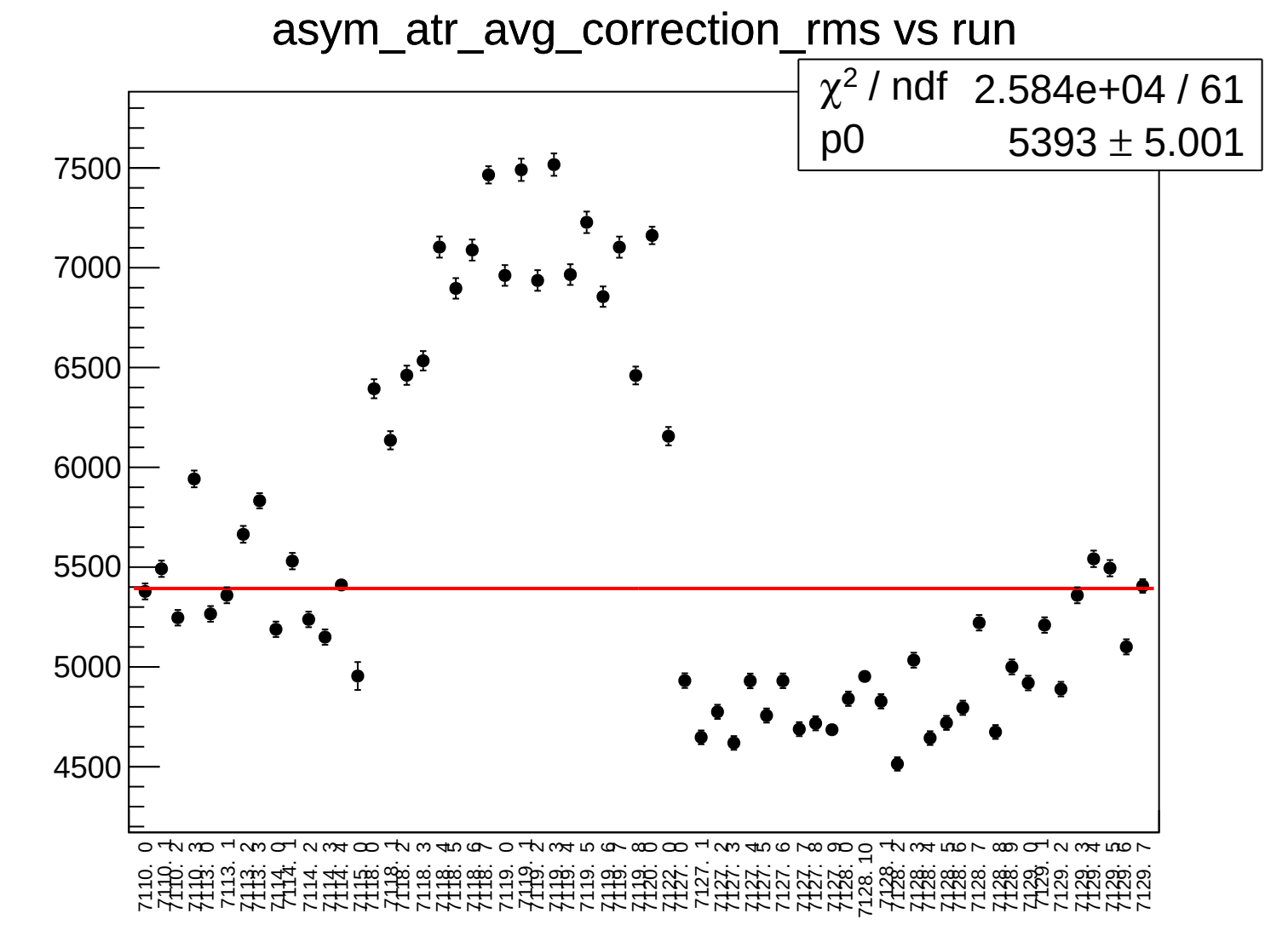

reg_asym_atr_avg_mean vs run
χ² / ndf 84.23 / 61
p0 5481 ± 2483
pull
Entries 62
Mean 46.31
Std Dev 84.66

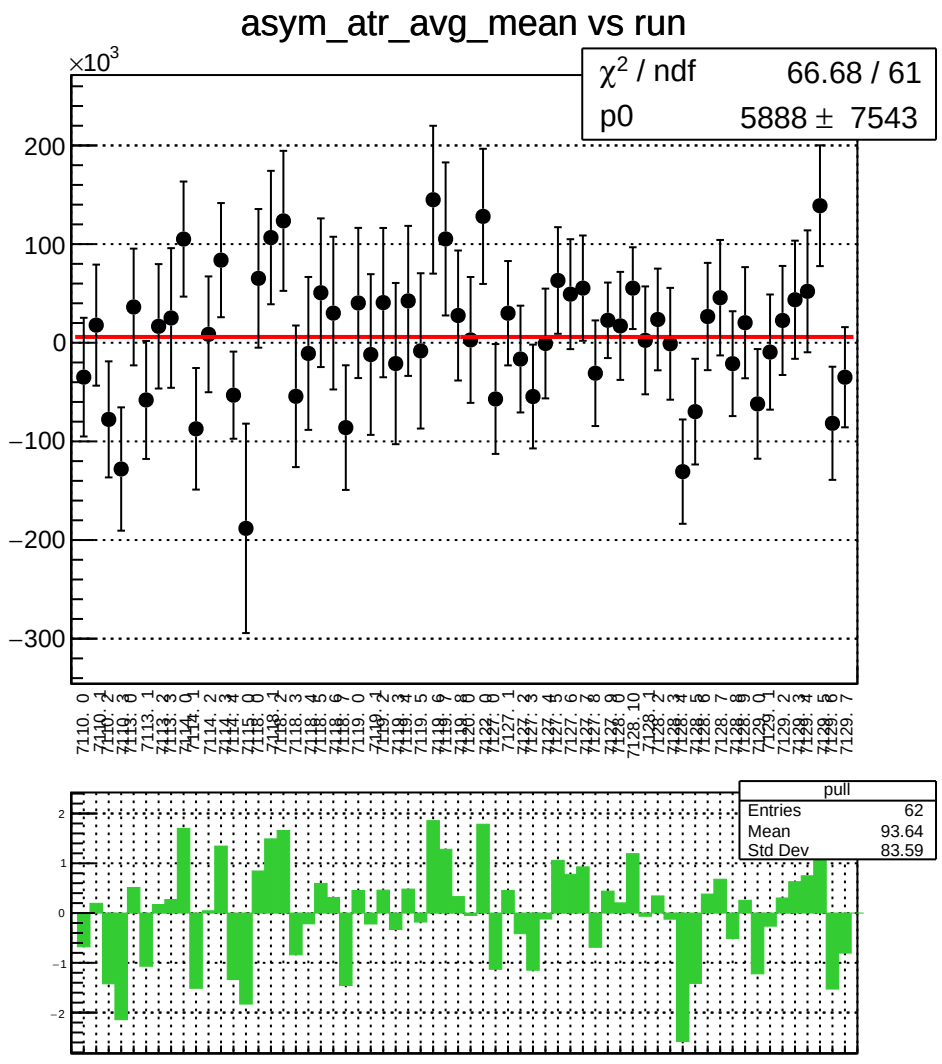

pull1D
Entries 62
Mean −0.01437
Std Dev 1.165

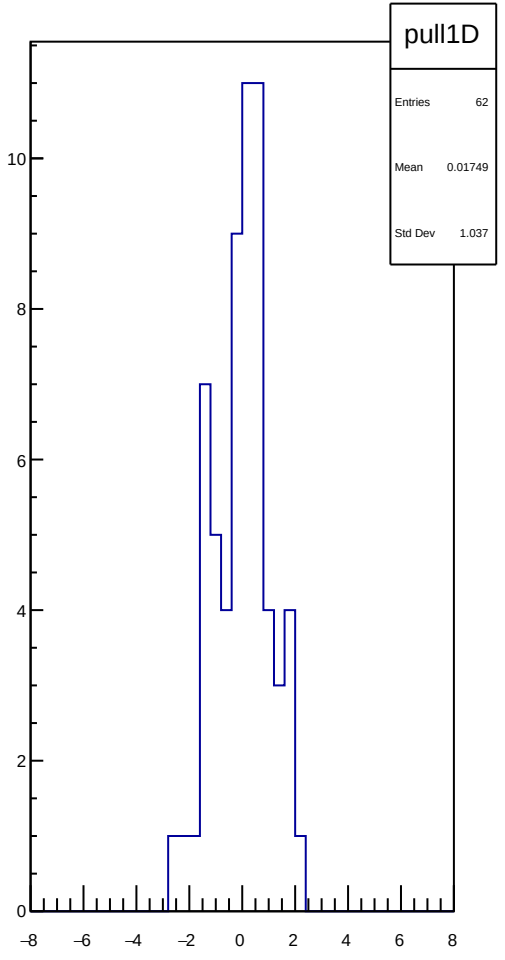

reg_asym_atr_avg_rms vs run
χ^2 / ndf 9057 / 61
p0 1907 ± 1.756
5000
4500
4000
3500
3000
2500
2000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

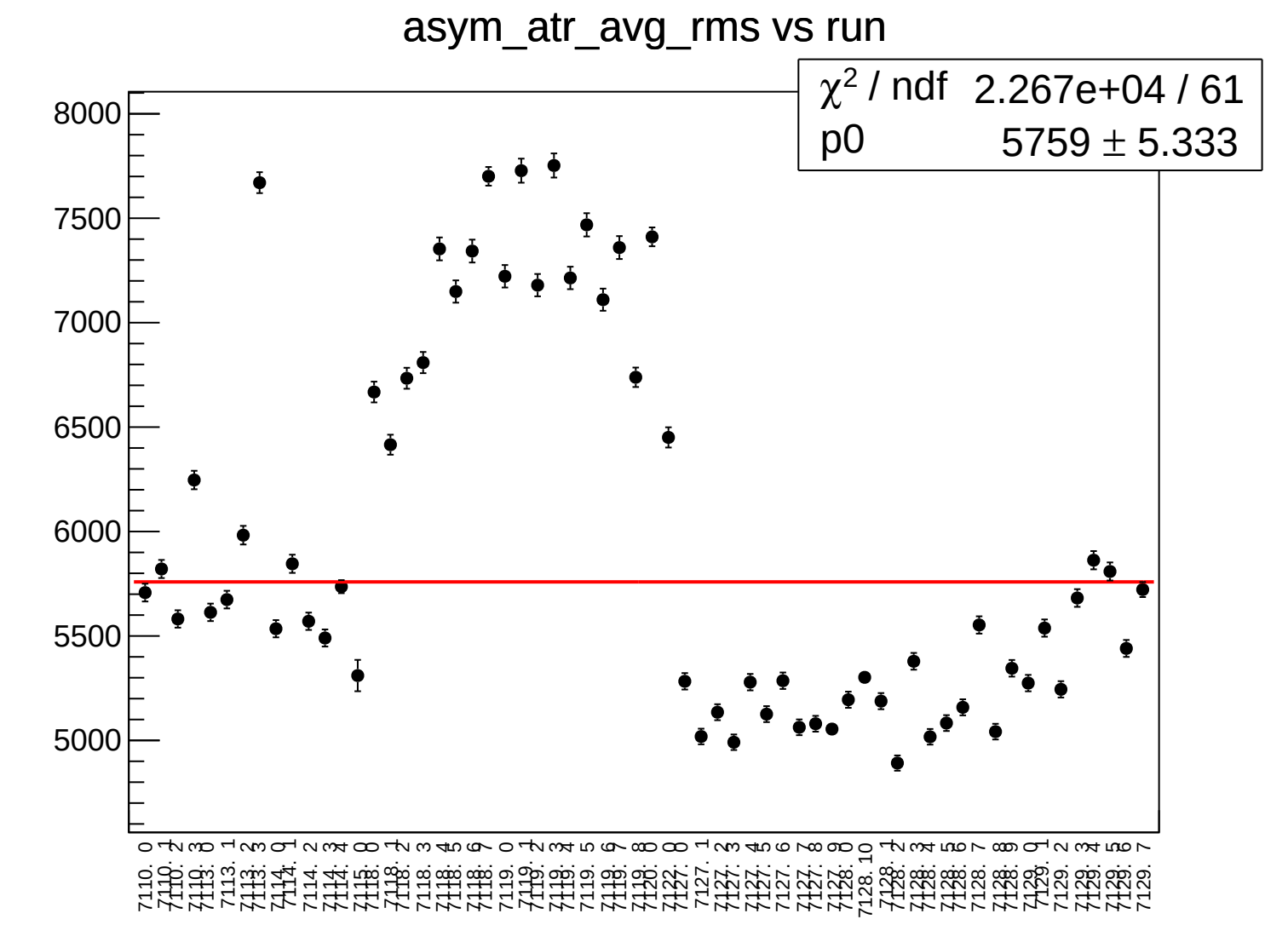

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 61.22 / 61
p0 −1807 ± 7073
pull
Entries 62
Mean 99.28
Std Dev 78.92

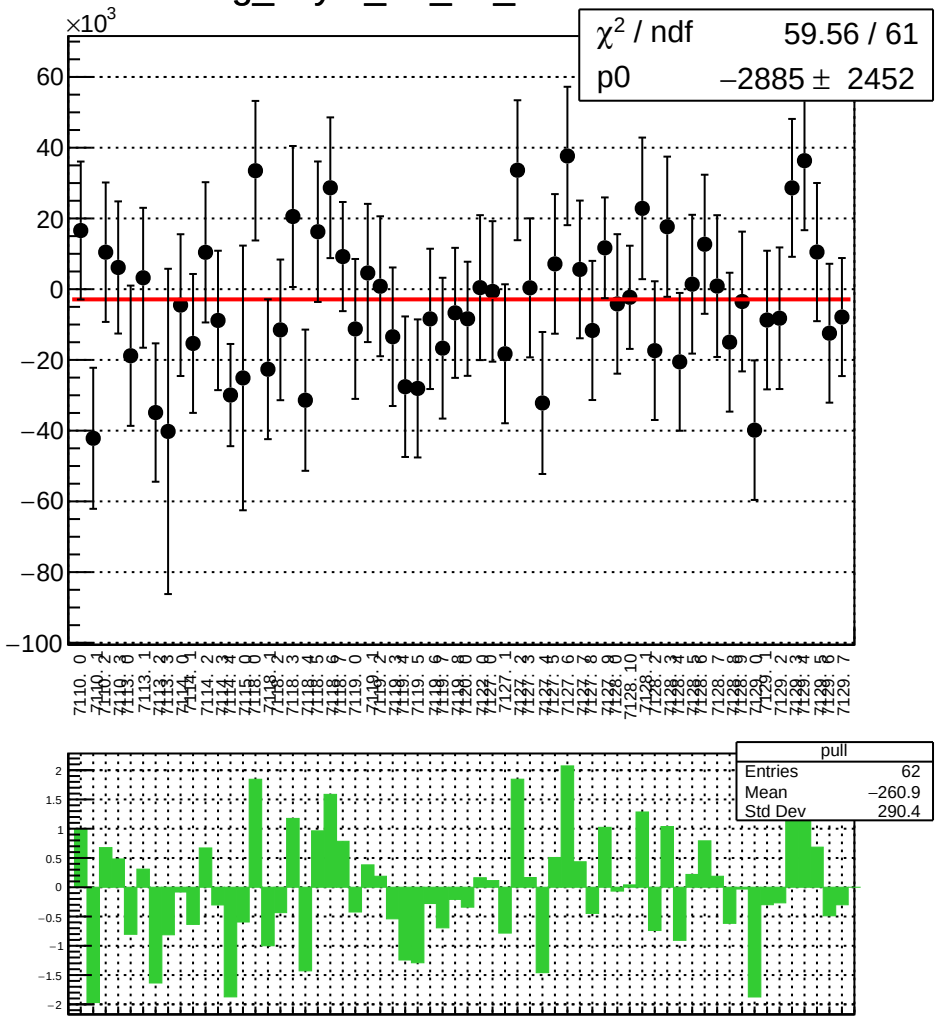

pull1D
Entries 62
Mean −0.01424
Std Dev 0.9935

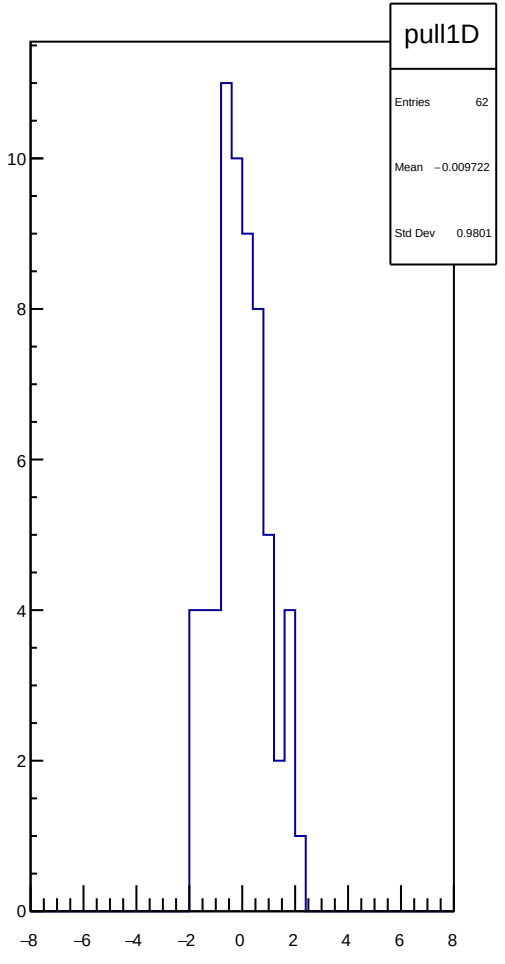

asym_atr_avg_correction_rms vs run
χ² / ndf 2.584e+04 / 61
p0 5393 ± 5.001
7500
7000
6500
6000
5500
5000
4500

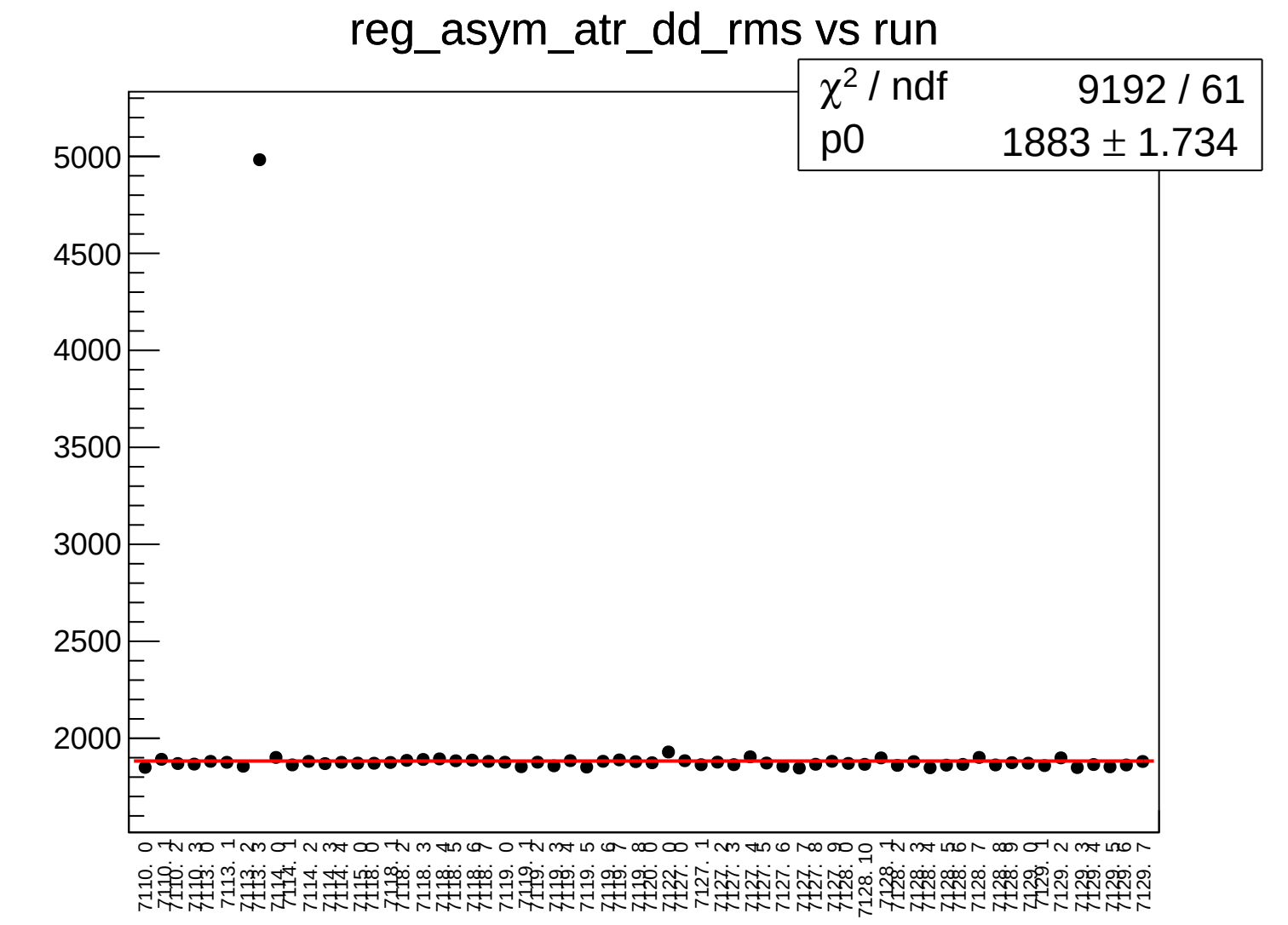

asym_atr_avg_mean vs run
×10^3
χ² / ndf 66.68 / 61
p0 5888 ± 7543
200
100
0
−100
−200
−300
pull
Entries 62
Mean 93.64
Std Dev 83.59
2
1
0
−1
−2

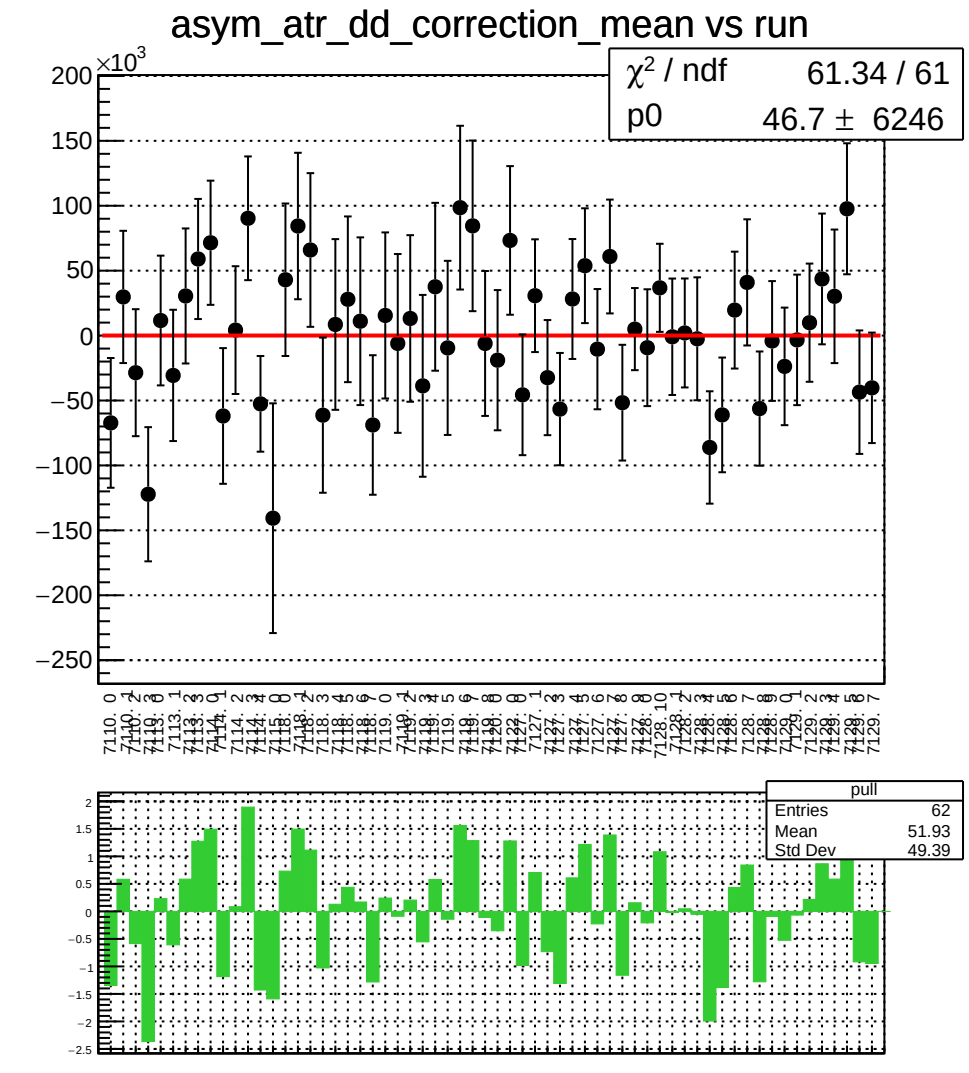

pull1D
Entries 62
Mean 0.01749
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

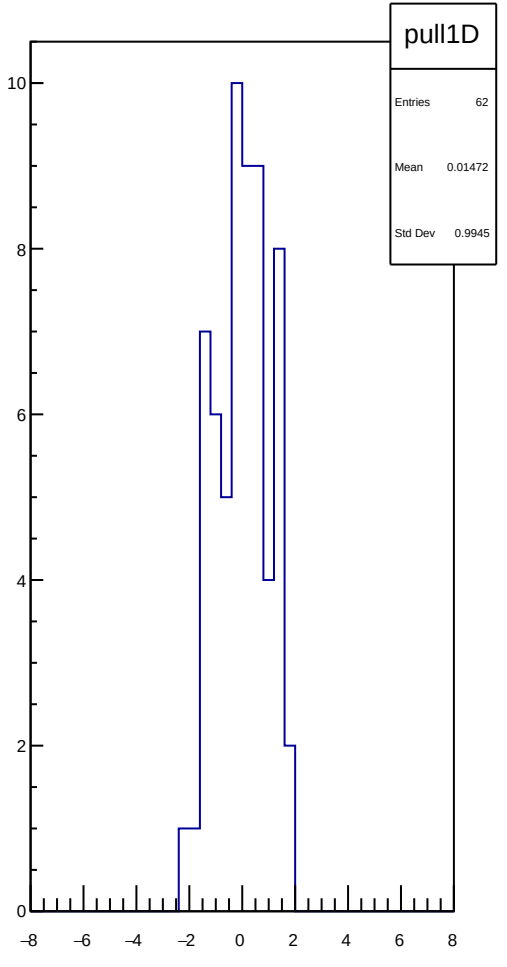

asym_atr_avg_rms vs run
χ² / ndf 2.267e+04 / 61
p0 5759 ± 5.333
8000
7500
7000
6500
6000
5500
5000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

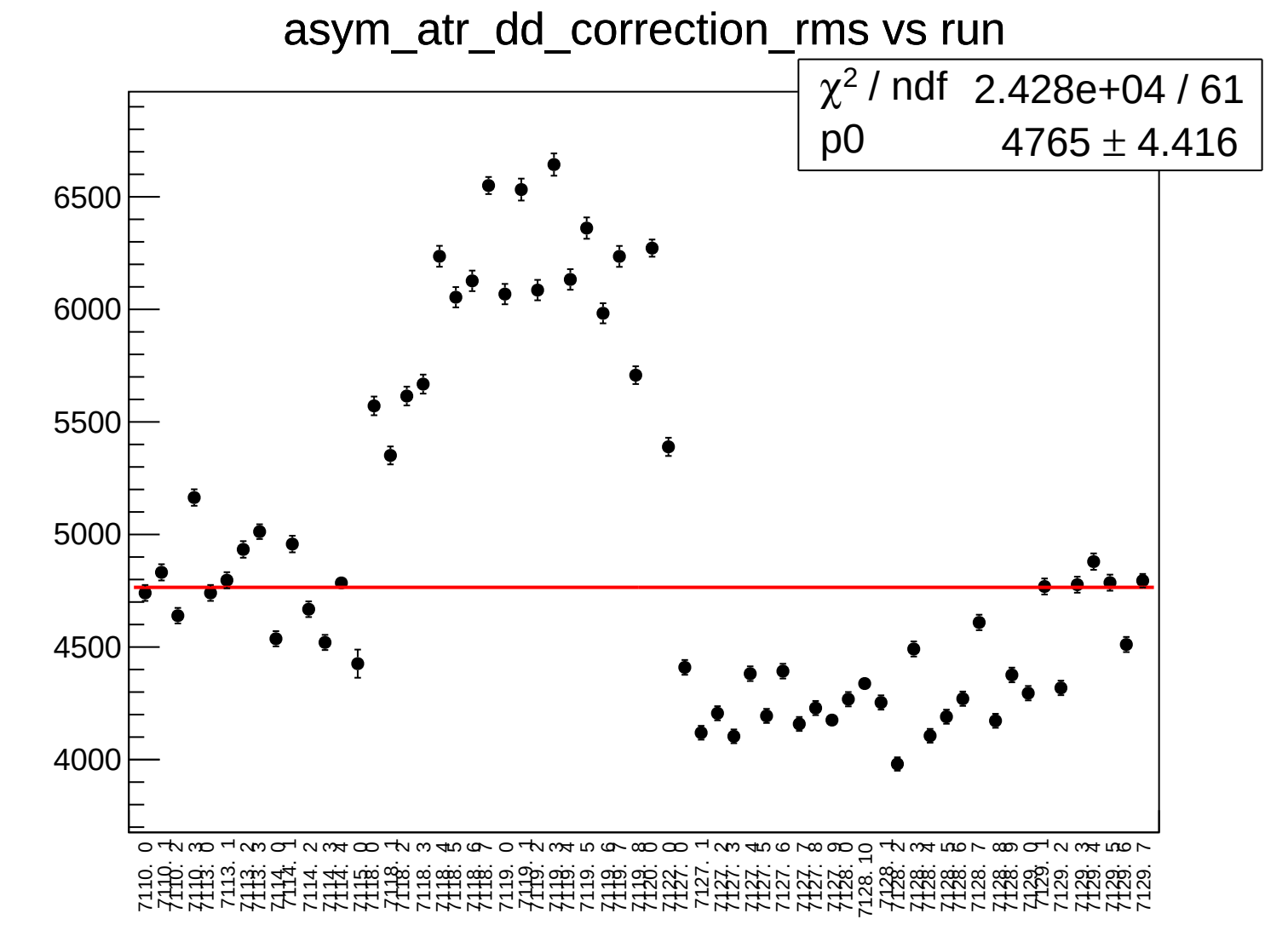

reg_asym_atr_dd_mean vs run
χ² / ndf 59.56 / 61
p0 −2885 ± 2452
pull
Entries 62
Mean −260.9
Std Dev 290.4

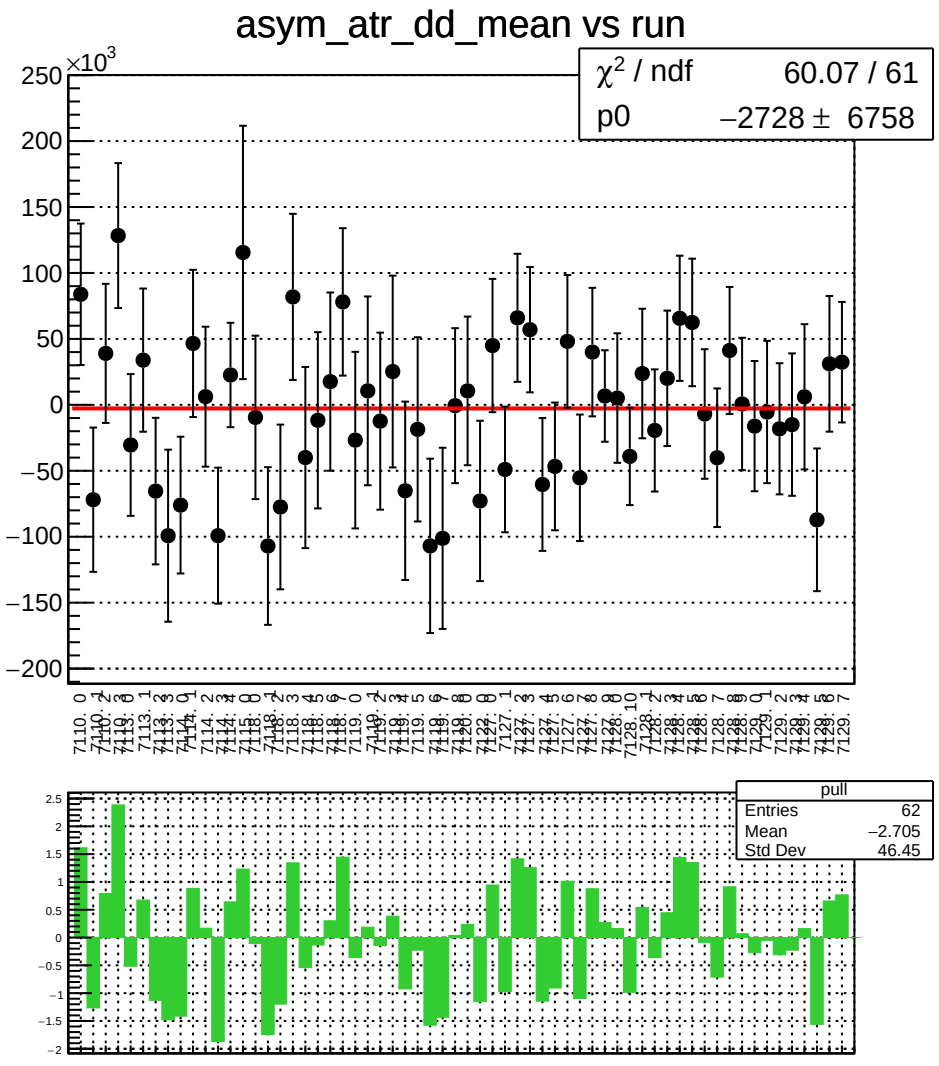

pull1D
Entries 62
Mean −0.009722
Std Dev 0.9801

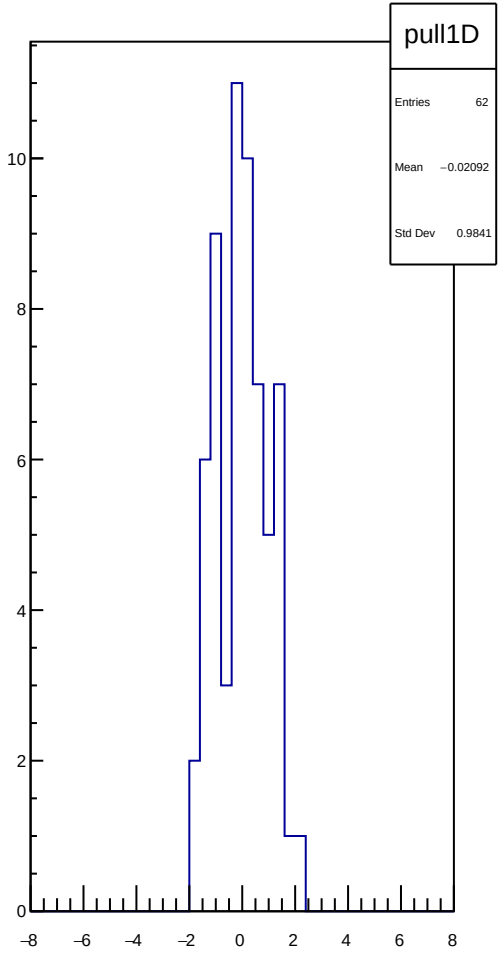

reg_asym_atr_dd_rms vs run
χ^2 / ndf 9192 / 61
p0 1883 ± 1.734
5000
4500
4000
3500
3000
2500
2000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

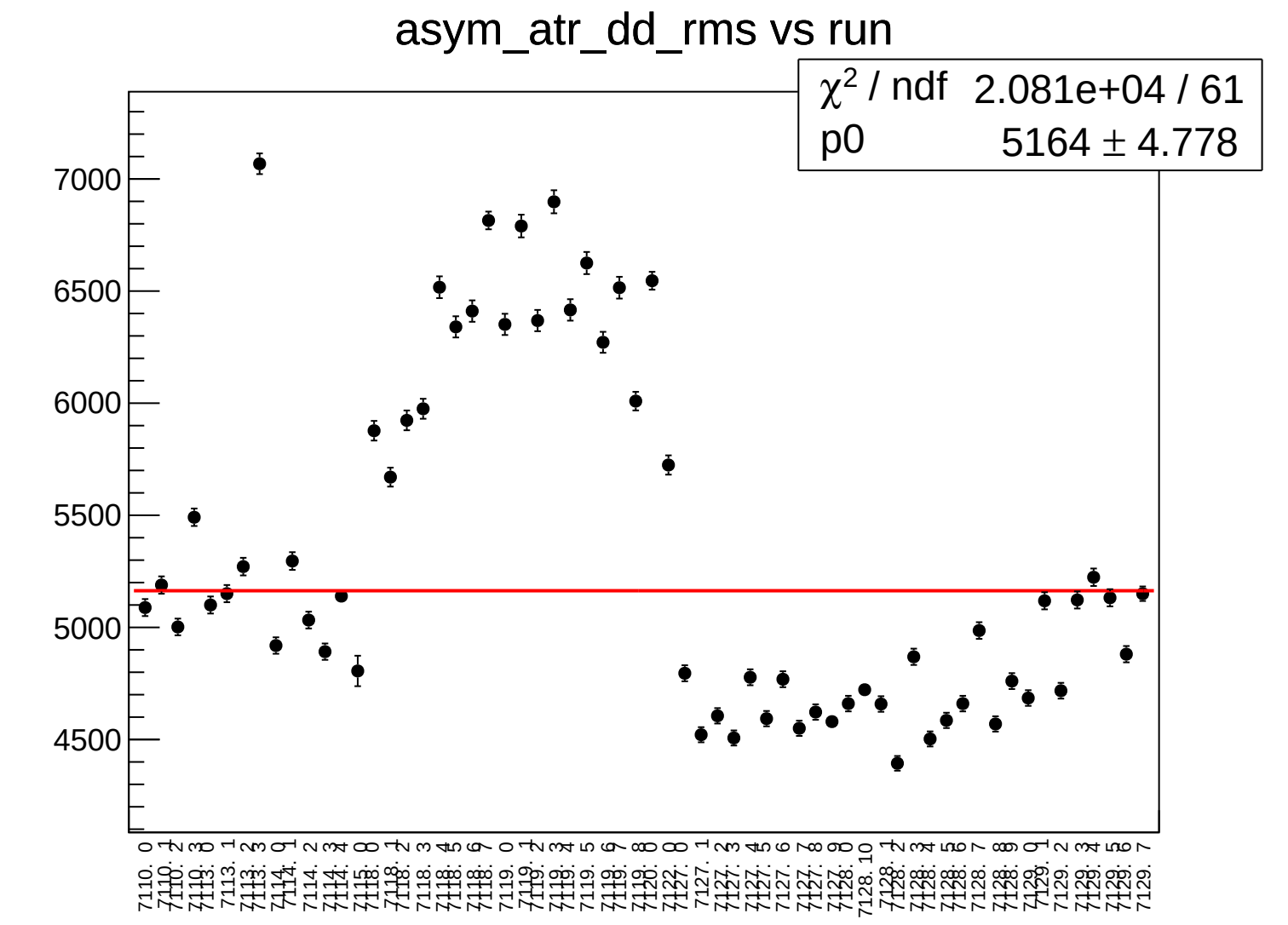

asym_atr_dd_correction_mean vs run
χ² / ndf 61.34 / 61
p0 46.7 ± 6246
pull
Entries 62
Mean 51.93
Std Dev 49.39

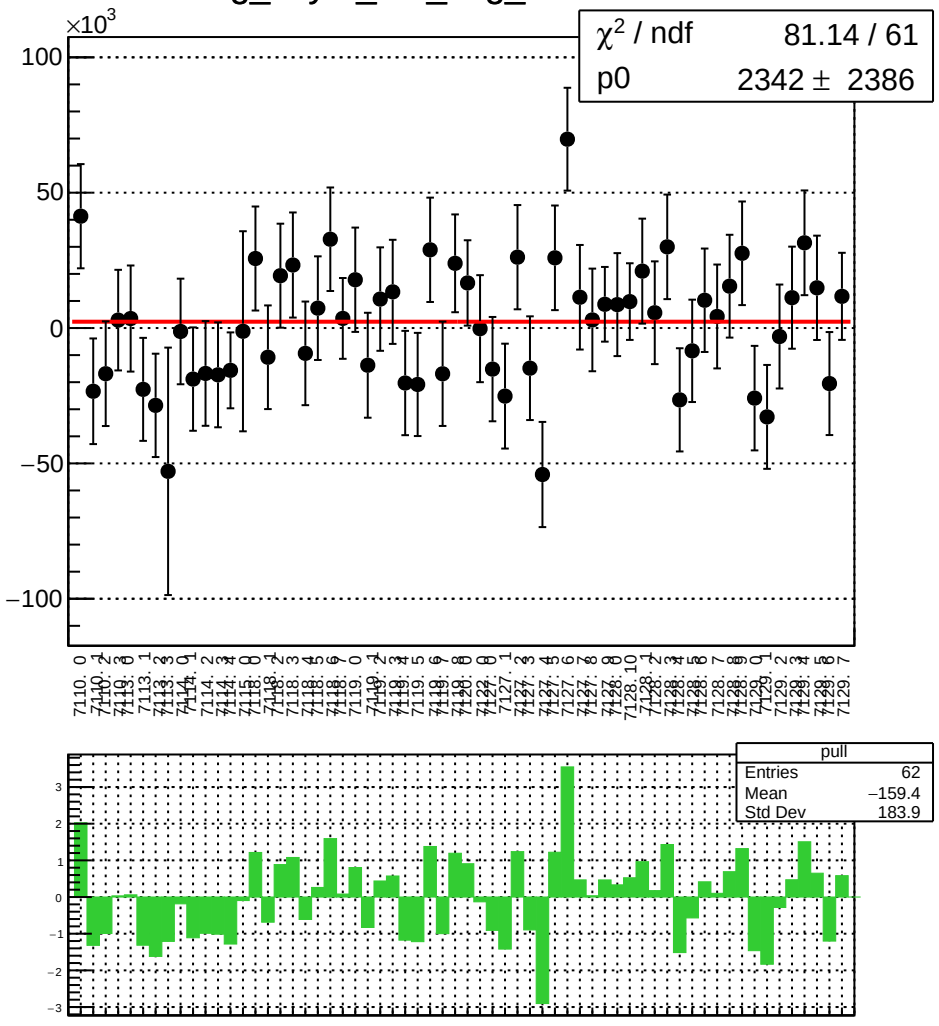

pull1D
Entries 62
Mean 0.01472
Std Dev 0.9945

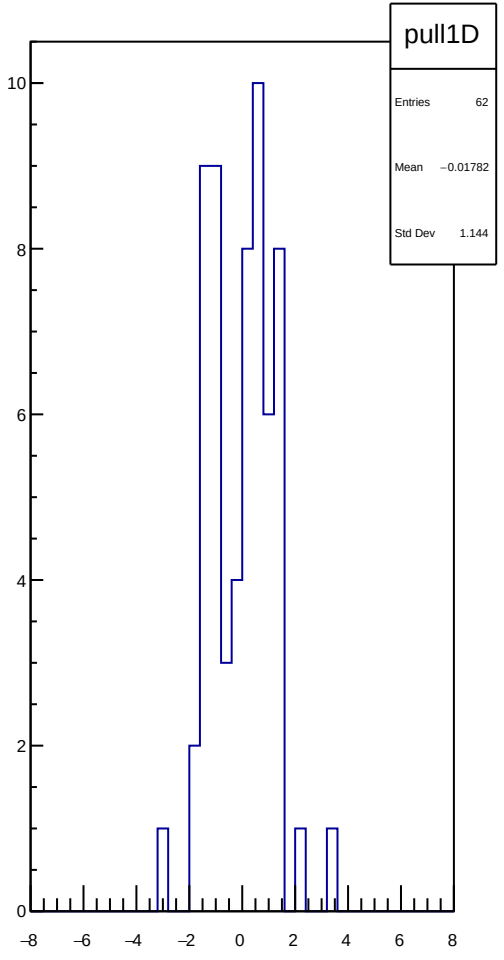

asym_atr_dd_correction_rms vs run
χ² / ndf 2.428e+04 / 61
p0 4765 ± 4.416
6500
6000
5500
5000
4500
4000

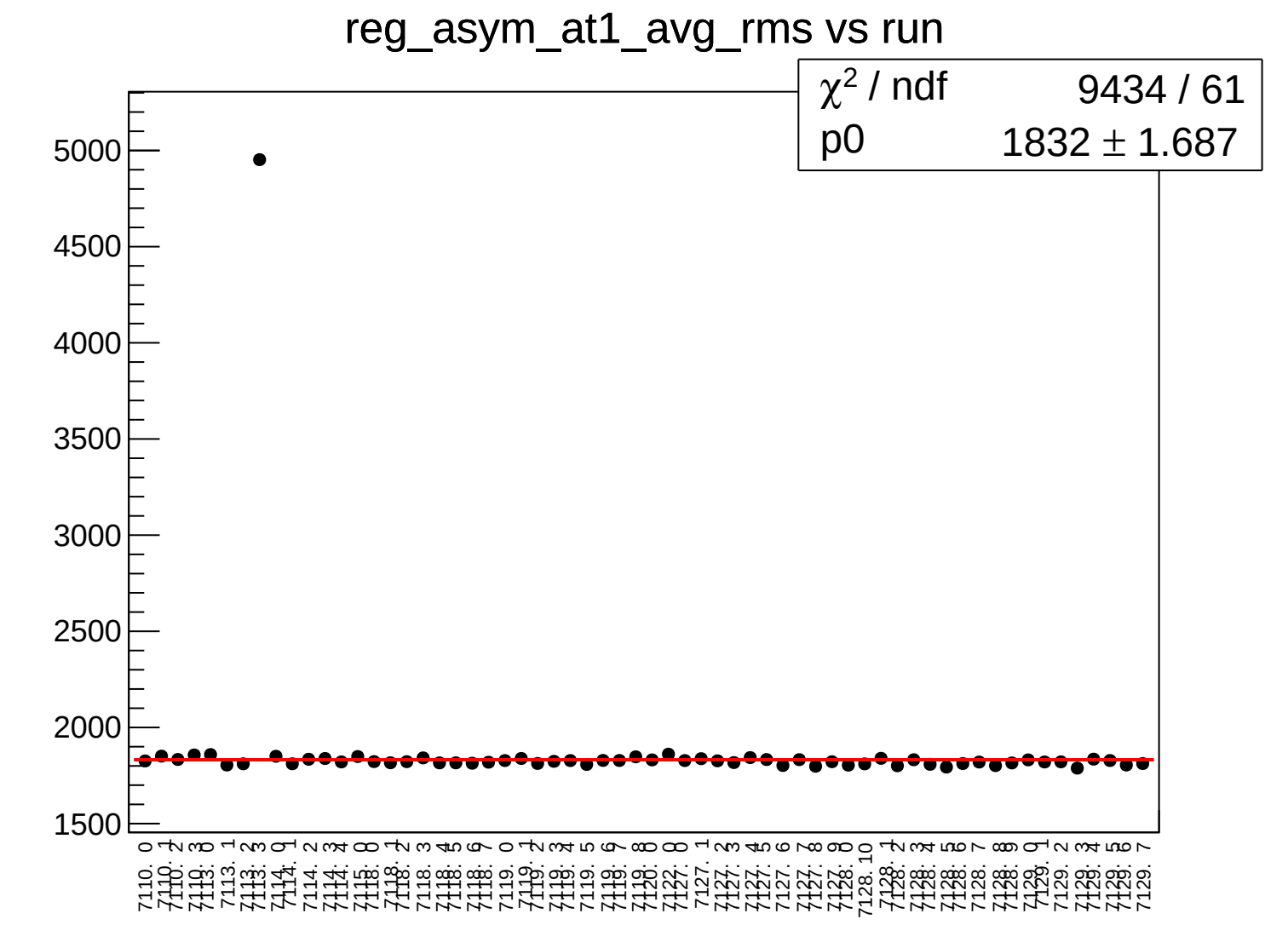

asym_atr_dd_mean vs run
χ² / ndf 60.07 / 61
p0 −2728 ± 6758
×10³
pull
Entries 62
Mean −2.705
Std Dev 46.45

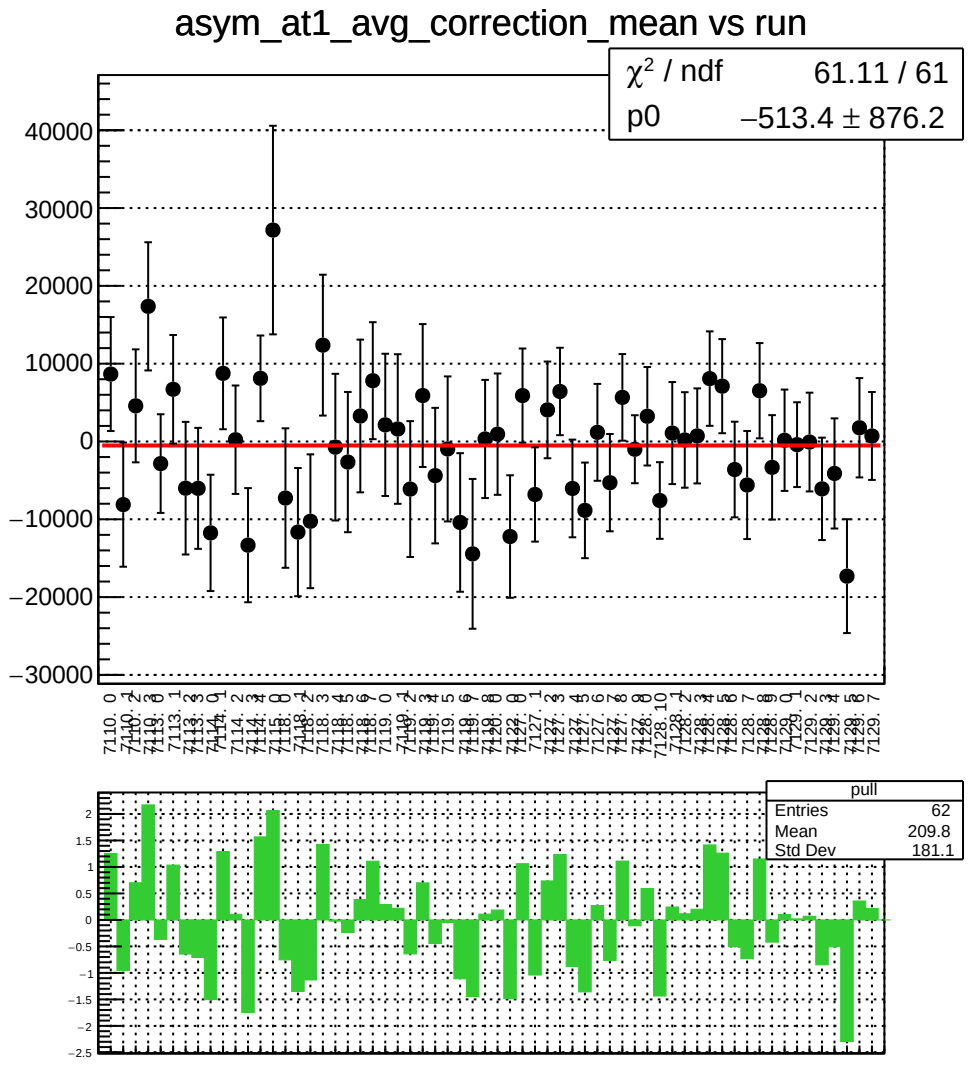

pull1D
Entries 62
Mean −0.02092
Std Dev 0.9841

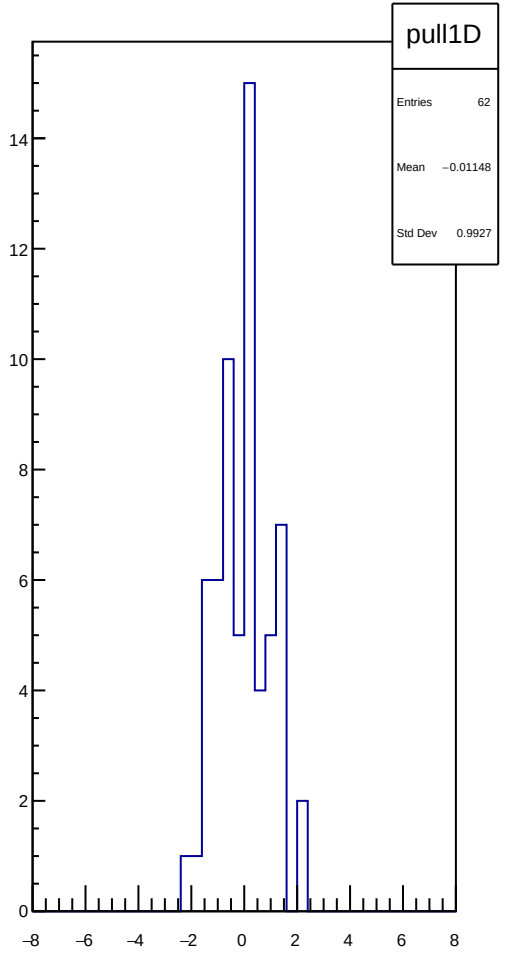

asym_atr_dd_rms vs run
χ^2 / ndf 2.081e+04 / 61
p0 5164 ± 4.778
7000
6500
6000
5500
5000
4500

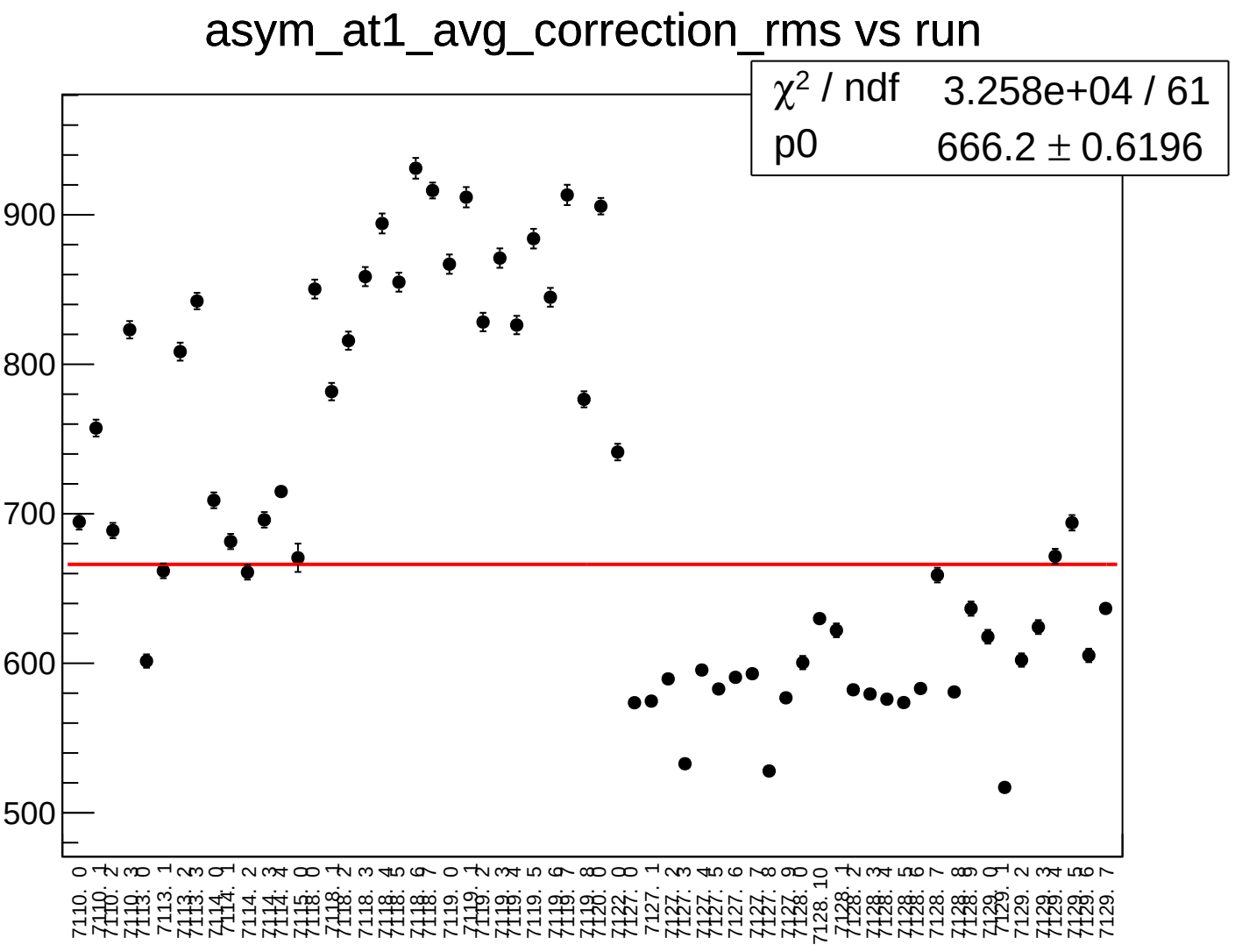

reg_asym_at1_avg_mean vs run
×10^3
χ² / ndf 81.14 / 61
p0 2342 ± 2386
pull
Entries 62
Mean −159.4
Std Dev 183.9

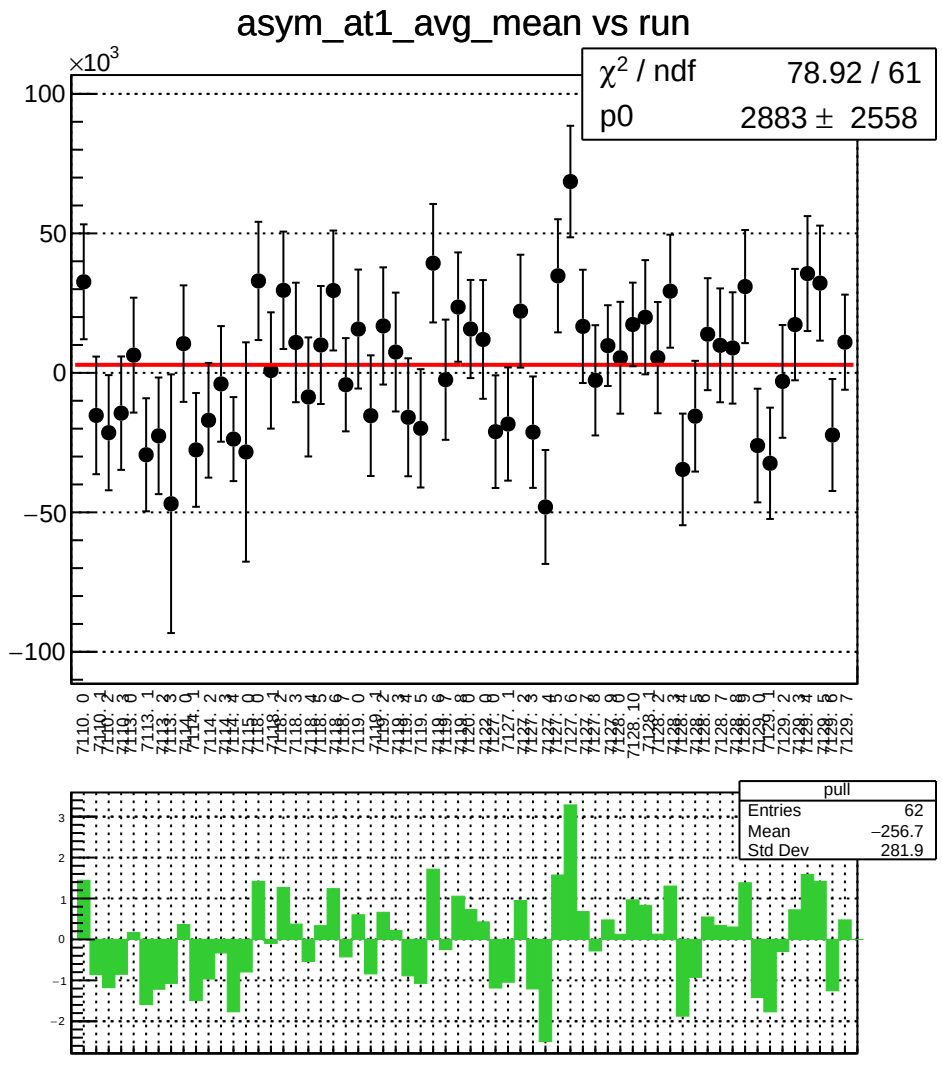

pull1D
Entries 62
Mean −0.01782
Std Dev 1.144

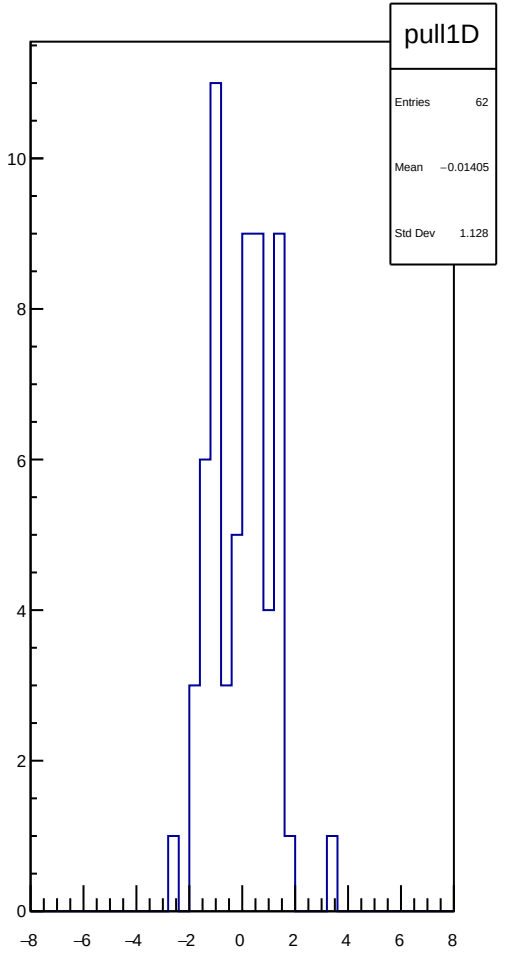

reg_asym_at1_avg_rms vs run
χ^2 / ndf 9434 / 61
p0 1832 ± 1.687
5000
4500
4000
3500
3000
2500
2000
1500
7110. 0
7110. 1
7110. 2
7110. 3
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 8
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

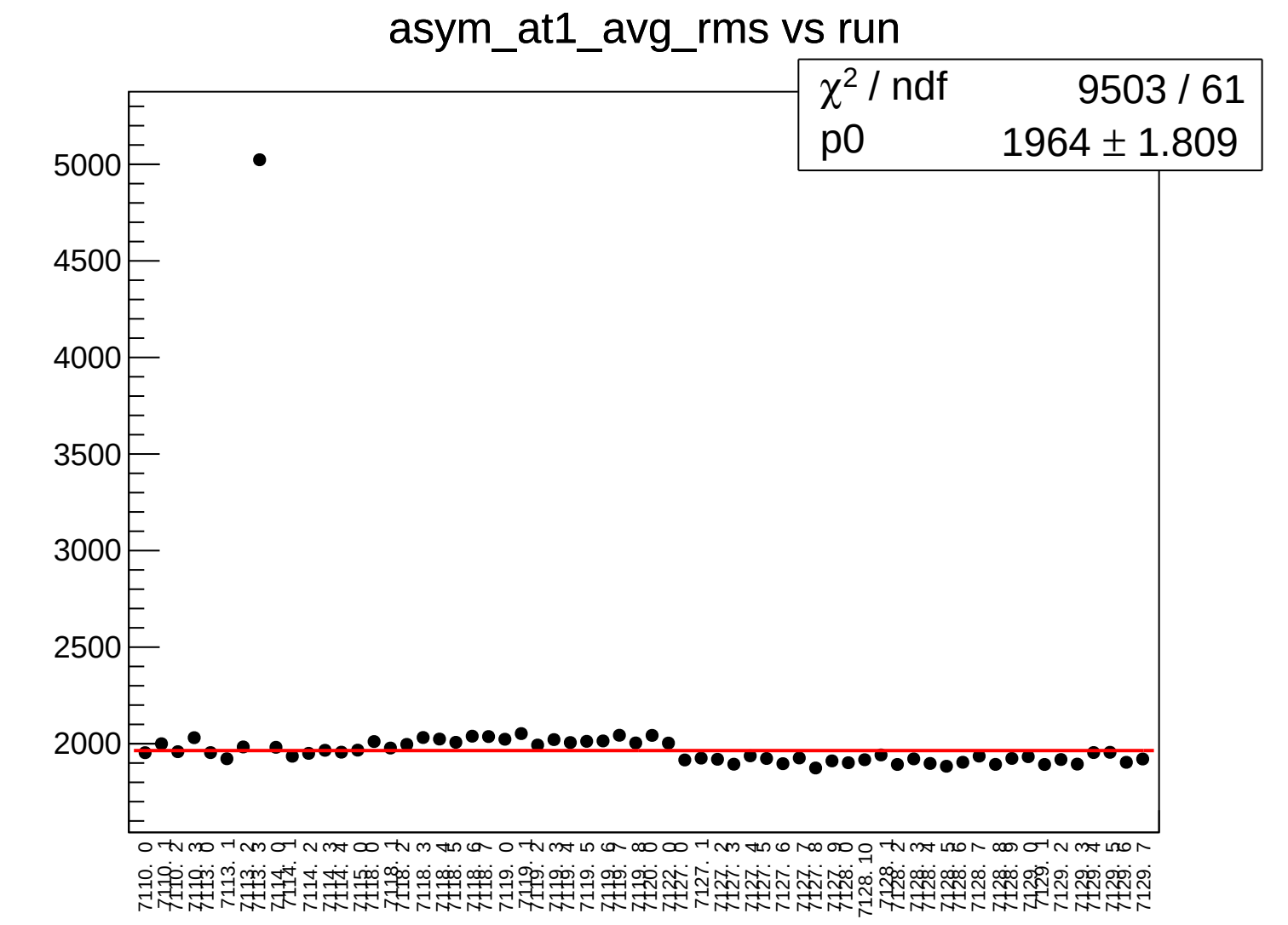

asym_at1_avg_correction_mean vs run
χ² / ndf 61.11 / 61
p0 −513.4 ± 876.2
pull
Entries 62
Mean 209.8
Std Dev 181.1

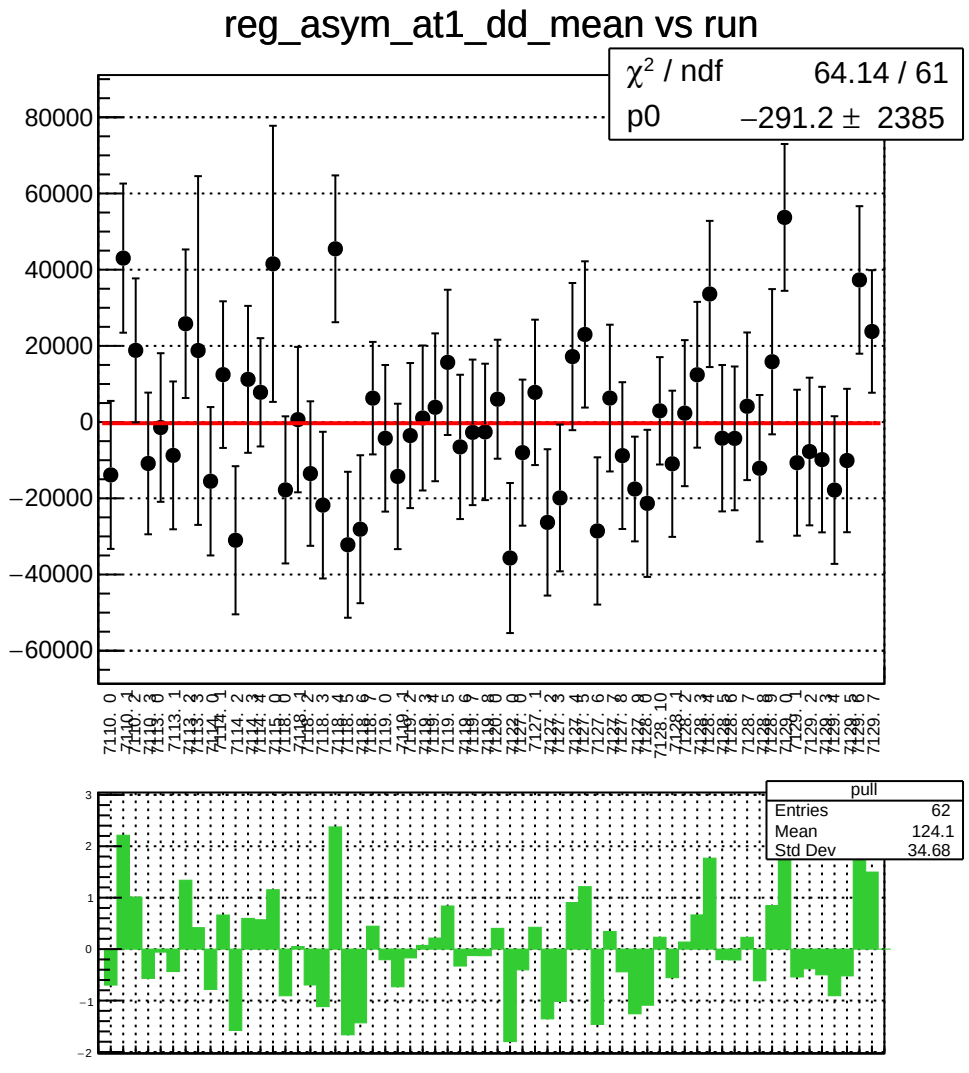

pull1D
Entries 62
Mean −0.01148
Std Dev 0.9927

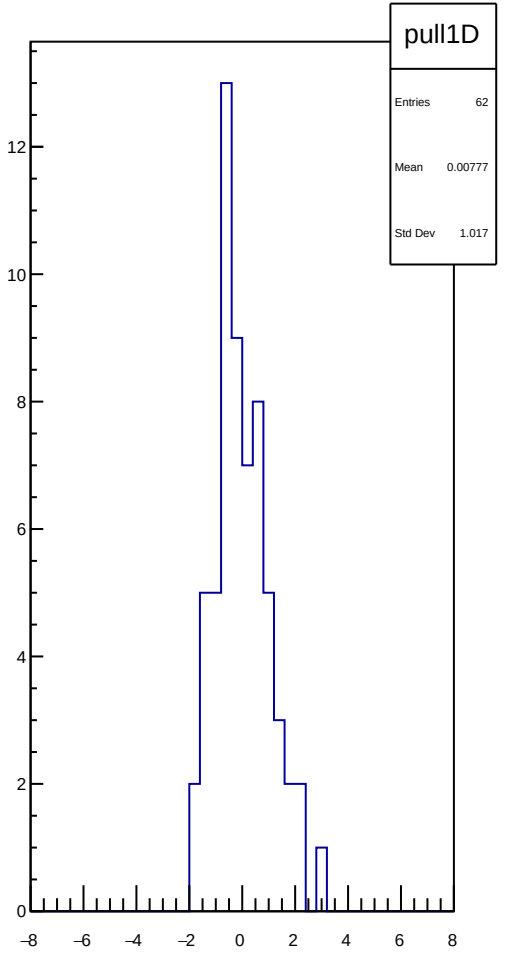

asym_at1_avg_correction_rms vs run
χ² / ndf 3.258e+04 / 61
p0 666.2 ± 0.6196
900
800
700
600
500
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

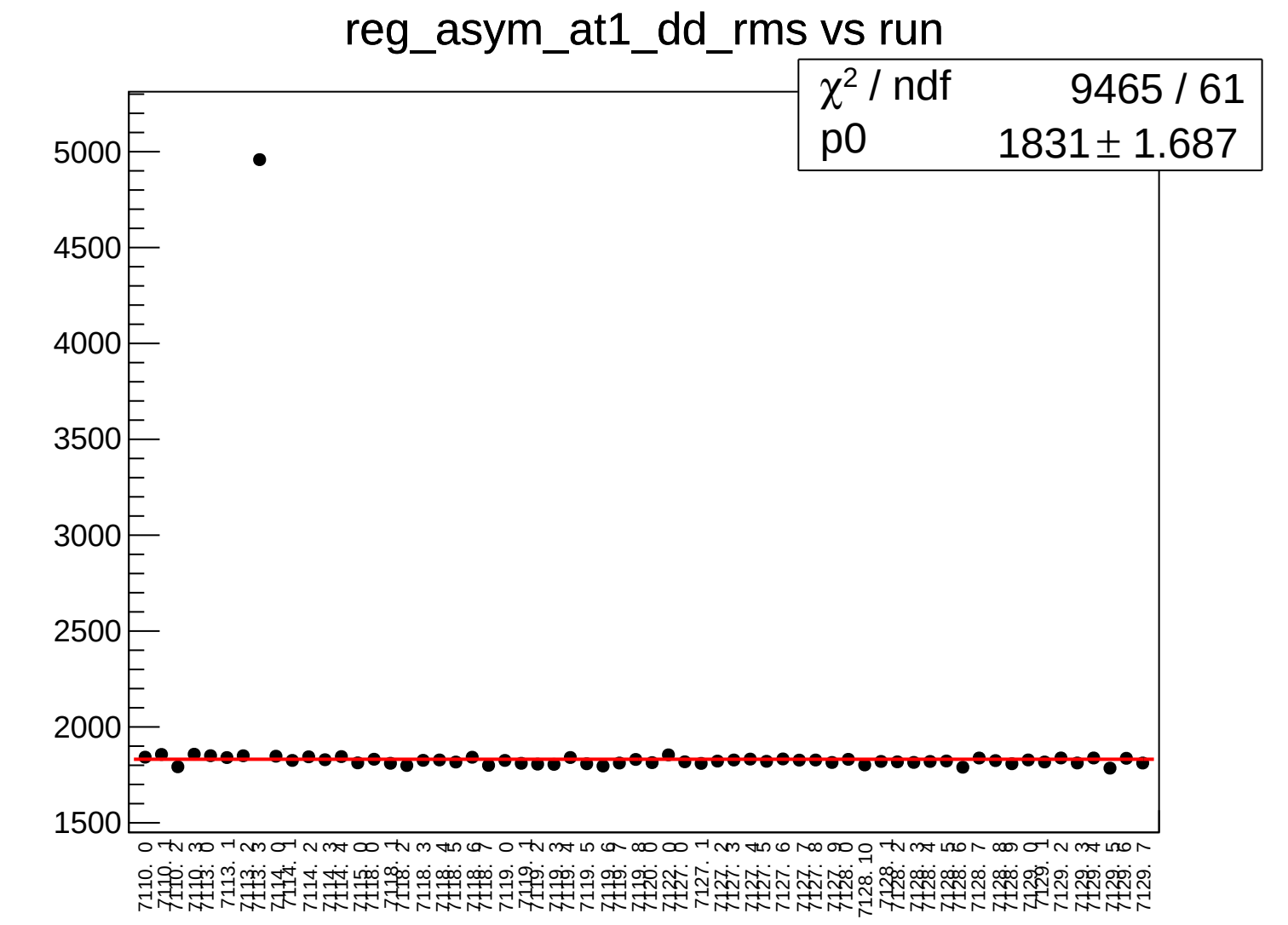

asym_at1_avg_mean vs run
×10^3
χ² / ndf 78.92 / 61
p0 2883 ± 2558
100
50
0
−50
−100
pull
Entries 62
Mean −256.7
Std Dev 281.9
3
2
1
0
−1
−2

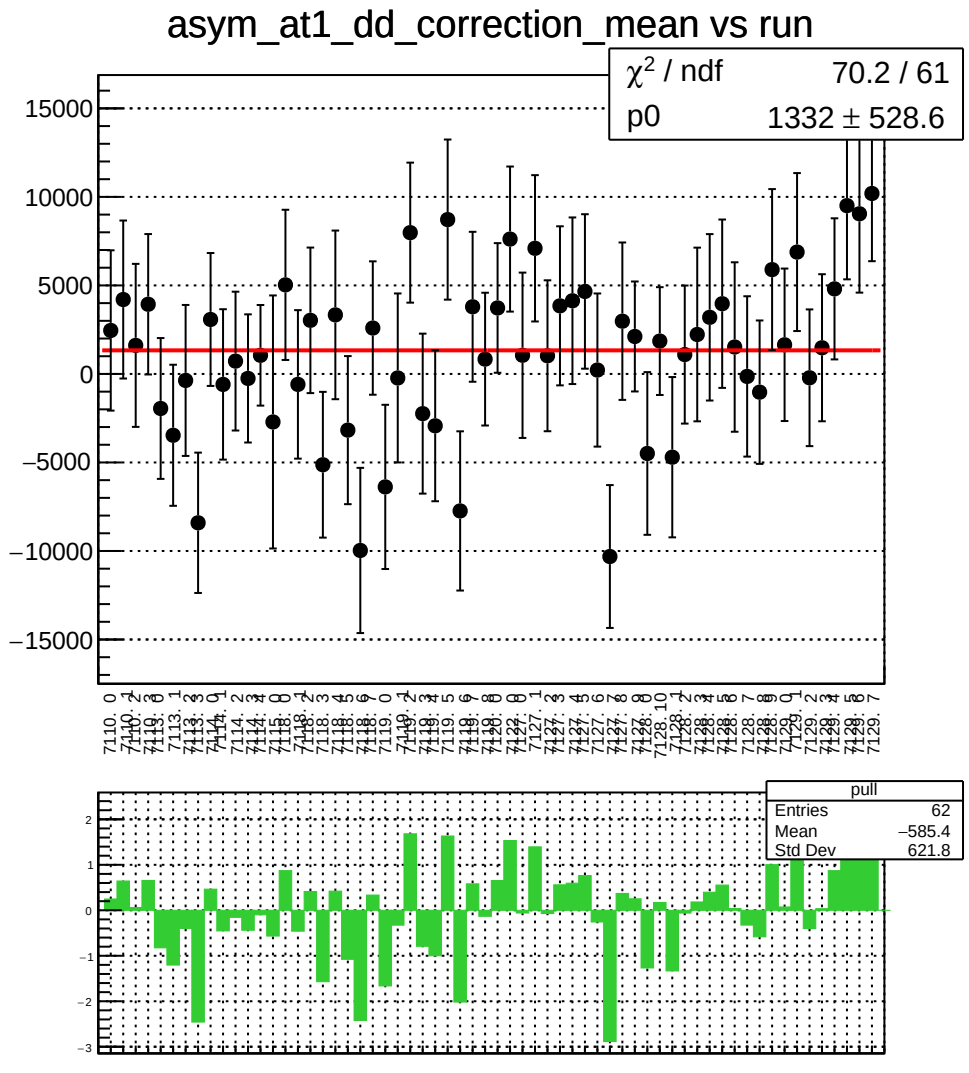

pull1D
Entries 62
Mean −0.01405
Std Dev 1.128
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

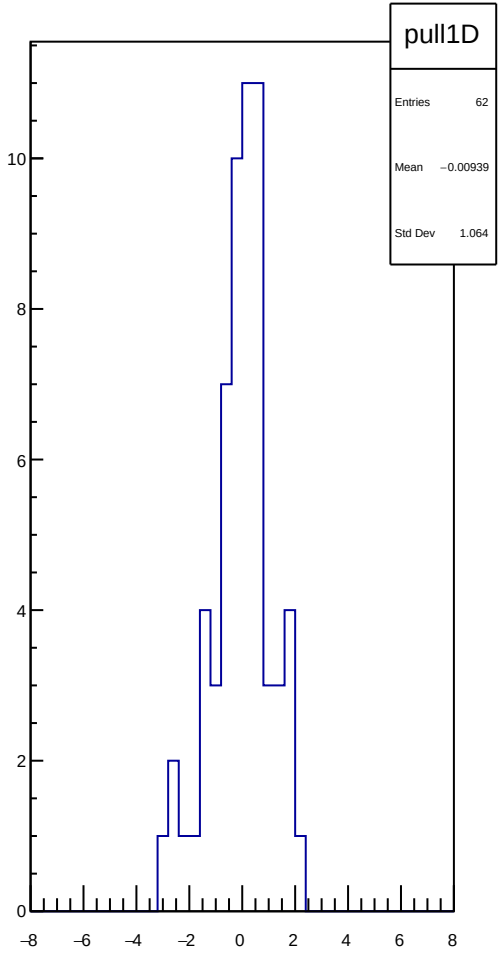

asym_at1_avg_rms vs run
χ^2 / ndf 9503 / 61
p0 1964 ± 1.809
5000
4500
4000
3500
3000
2500
2000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 8
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

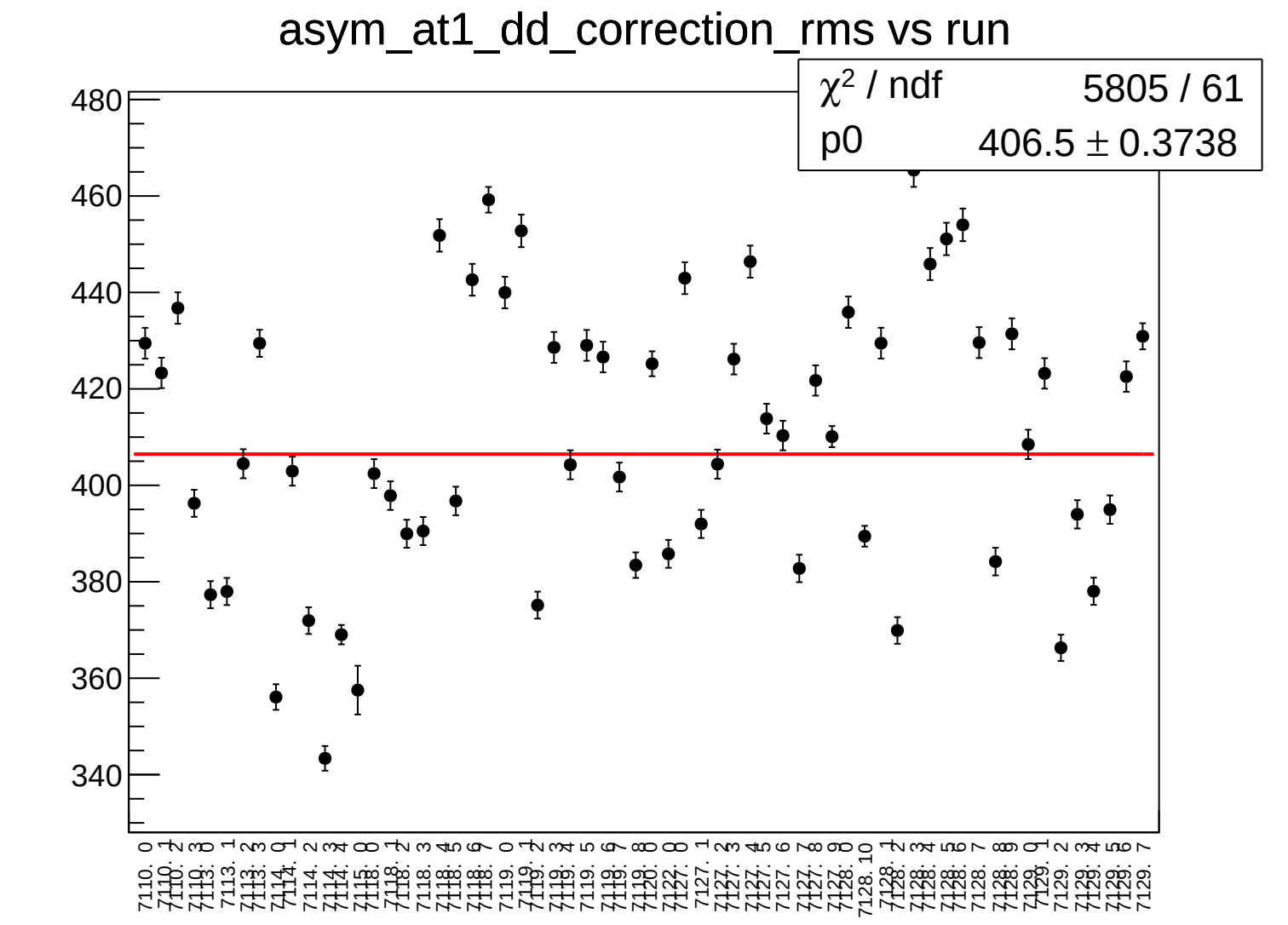

reg_asym_at1_dd_mean vs run
χ² / ndf 64.14 / 61
p0 −291.2 ± 2385
pull
Entries 62
Mean 124.1
Std Dev 34.68

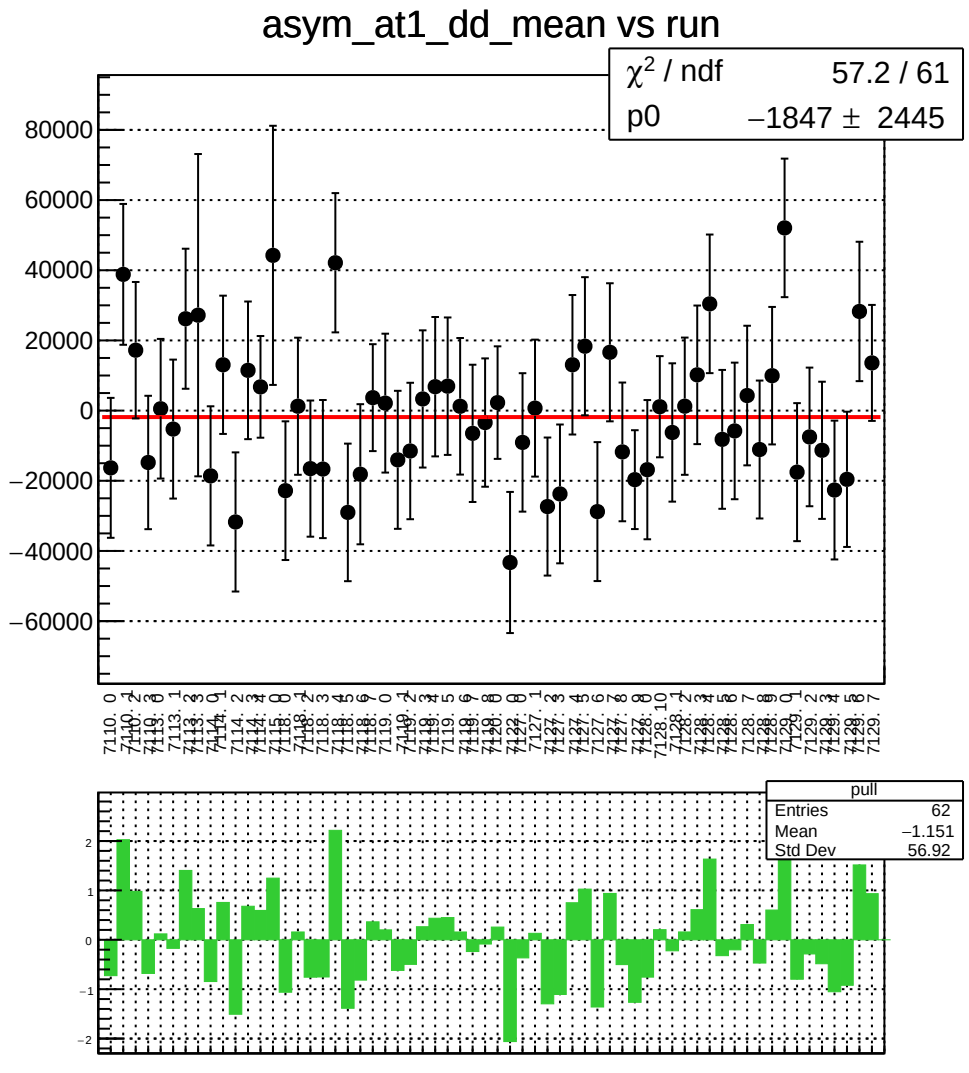

pull1D
Entries 62
Mean 0.00777
Std Dev 1.017

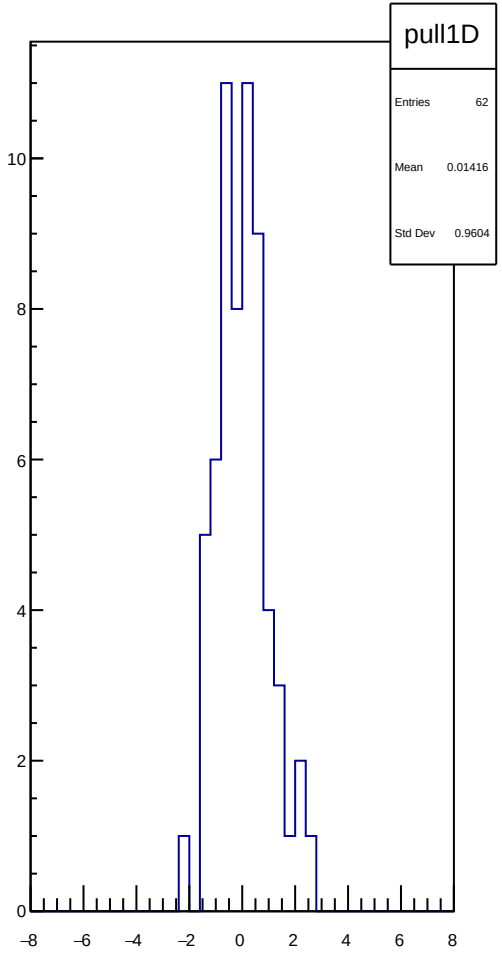

reg_asym_at1_dd_rms vs run
χ^2 / ndf 9465 / 61
p0 1831 ± 1.687
5000
4500
4000
3500
3000
2500
2000
1500
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

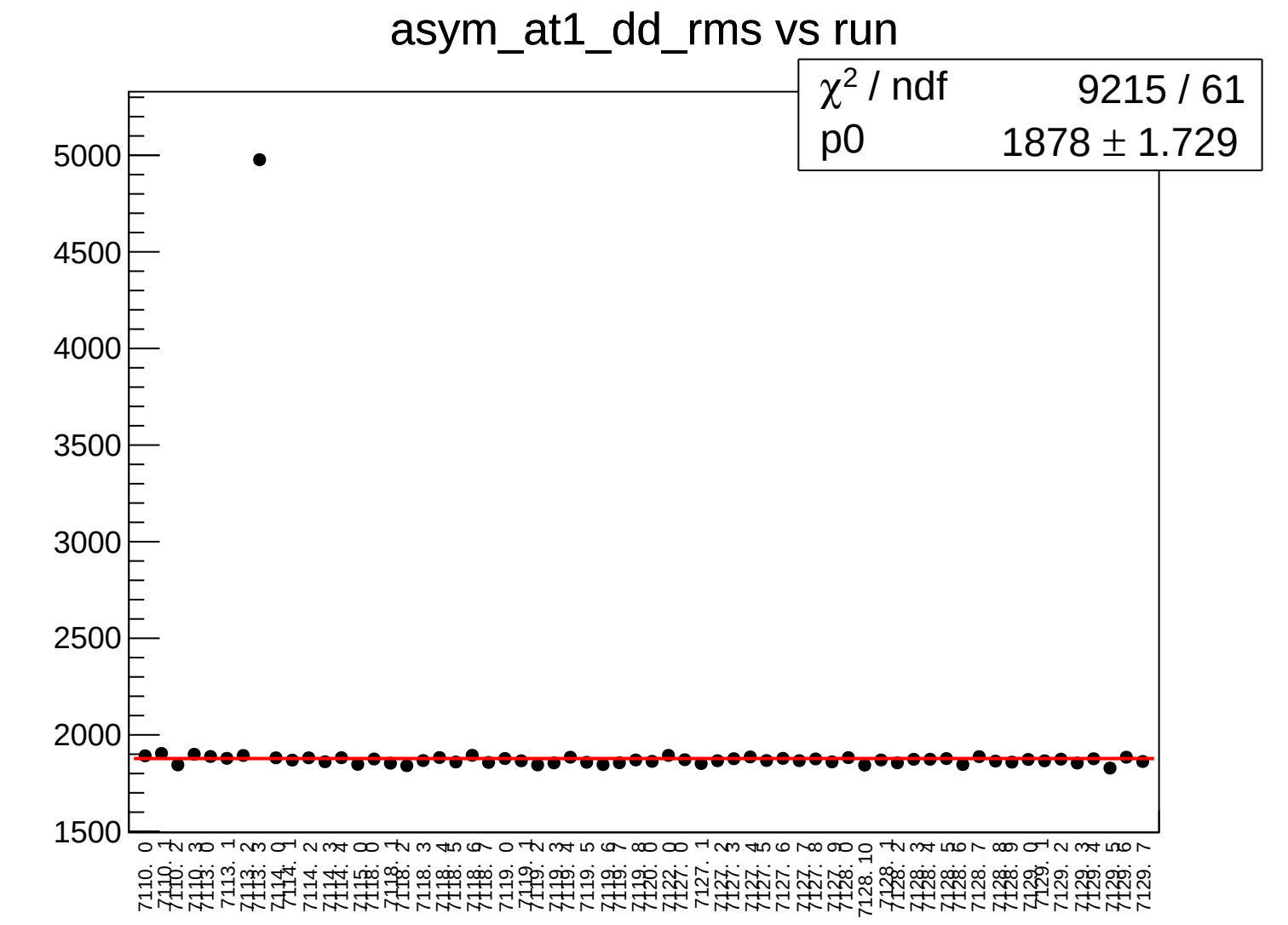

asym_at1_dd_correction_mean vs run
χ² / ndf 70.2 / 61
p0 1332 ± 528.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 62
Mean −585.4
Std Dev 621.8
2
1
0
−1
−2
−3

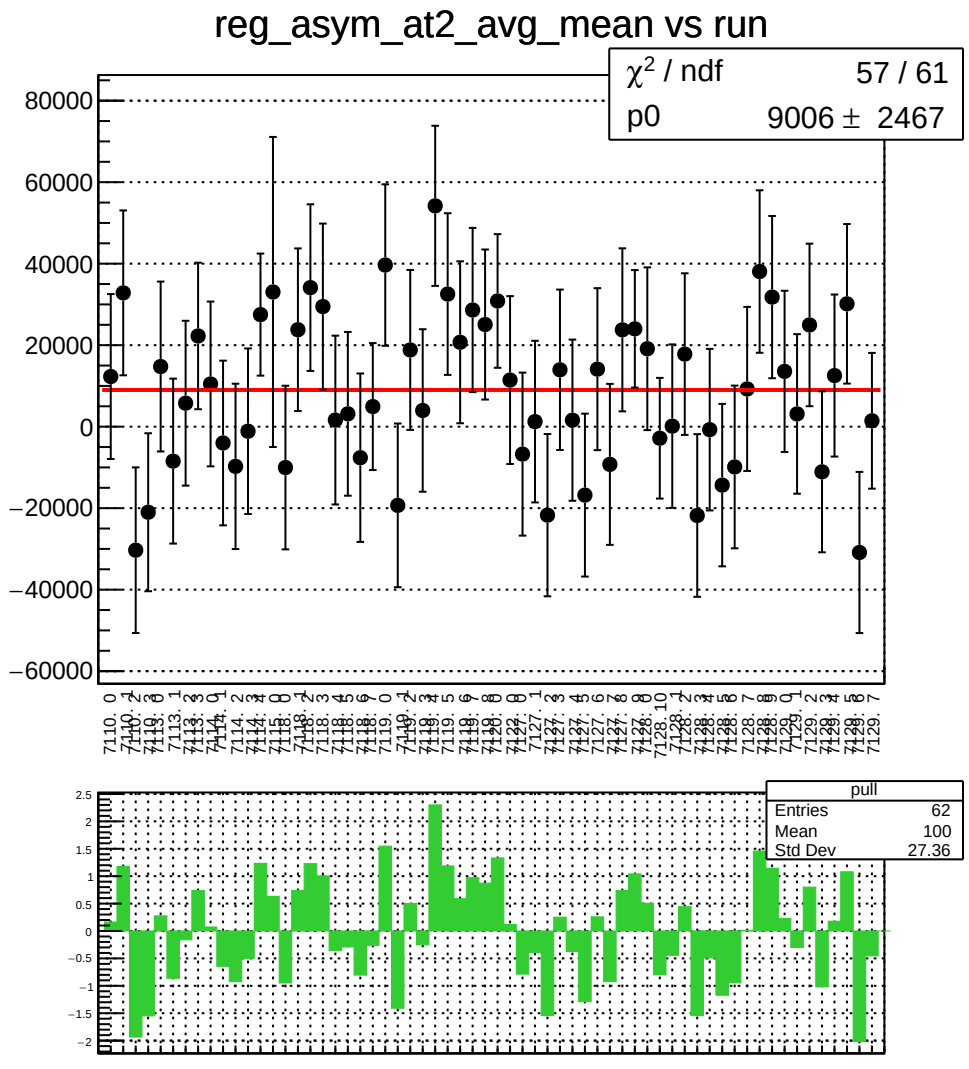

pull1D
Entries 62
Mean −0.00939
Std Dev 1.064
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

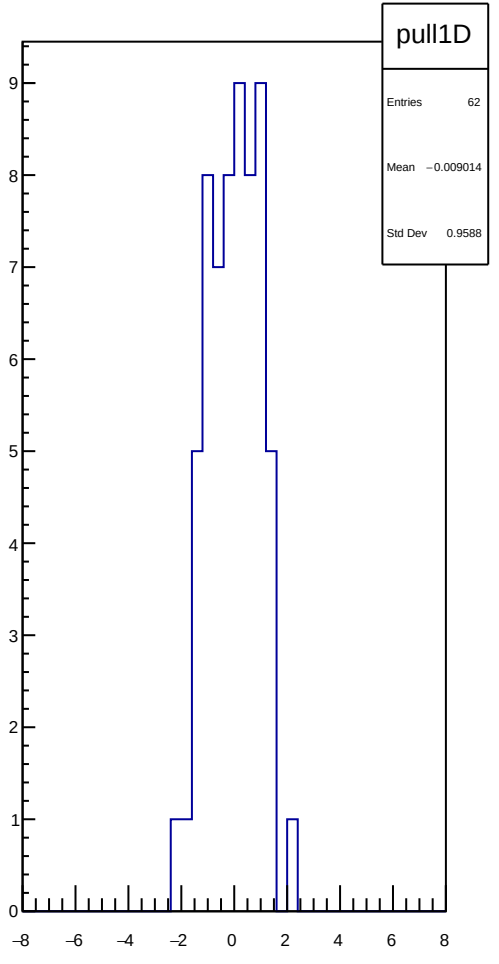

asym_at1_dd_correction_rms vs run
χ² / ndf 5805 / 61
p0 406.5 ± 0.3738
480
460
440
420
400
380
360
340

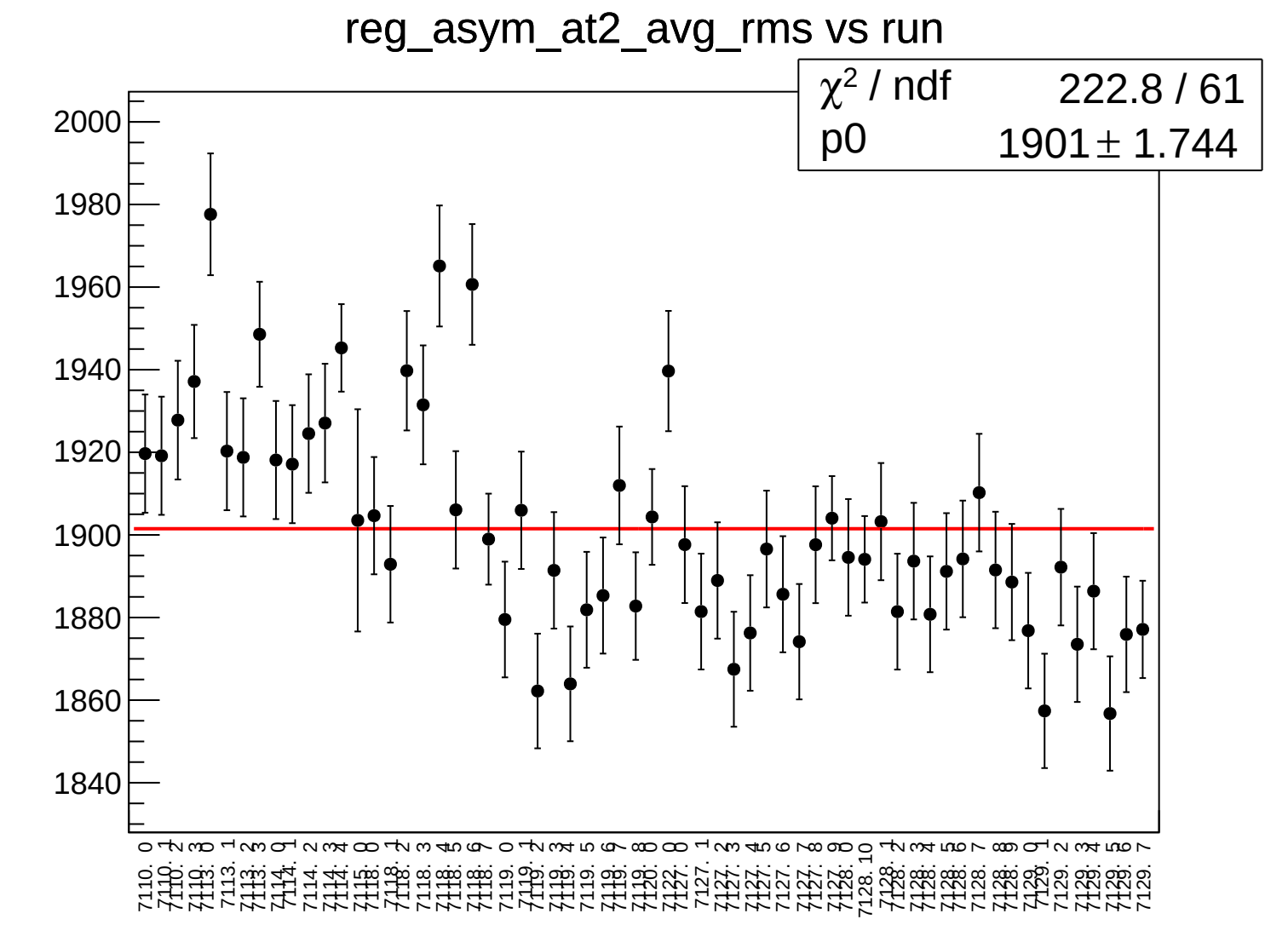

asym_at1_dd_mean vs run
χ² / ndf 57.2 / 61
p0 −1847 ± 2445
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 62
Mean −1.151
Std Dev 56.92
2
1
0
−1
−2

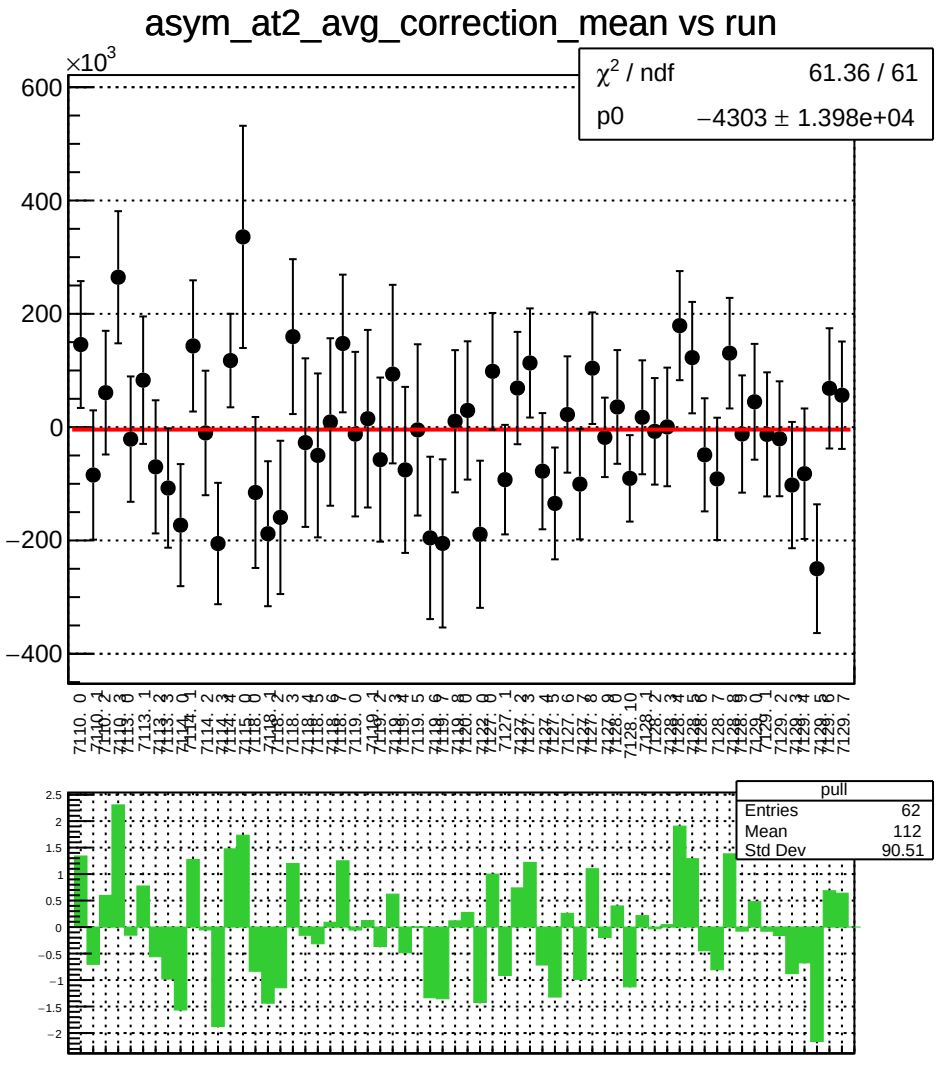

pull1D
Entries 62
Mean 0.01416
Std Dev 0.9604
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

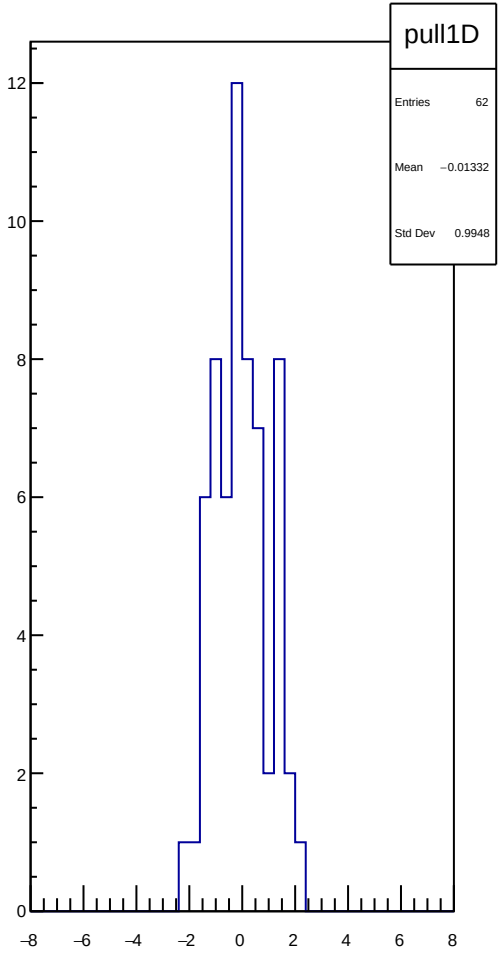

asym_at1_dd_rms vs run
χ^2 / ndf 9215 / 61
p0 1878 ± 1.729
5000
4500
4000
3500
3000
2500
2000
1500

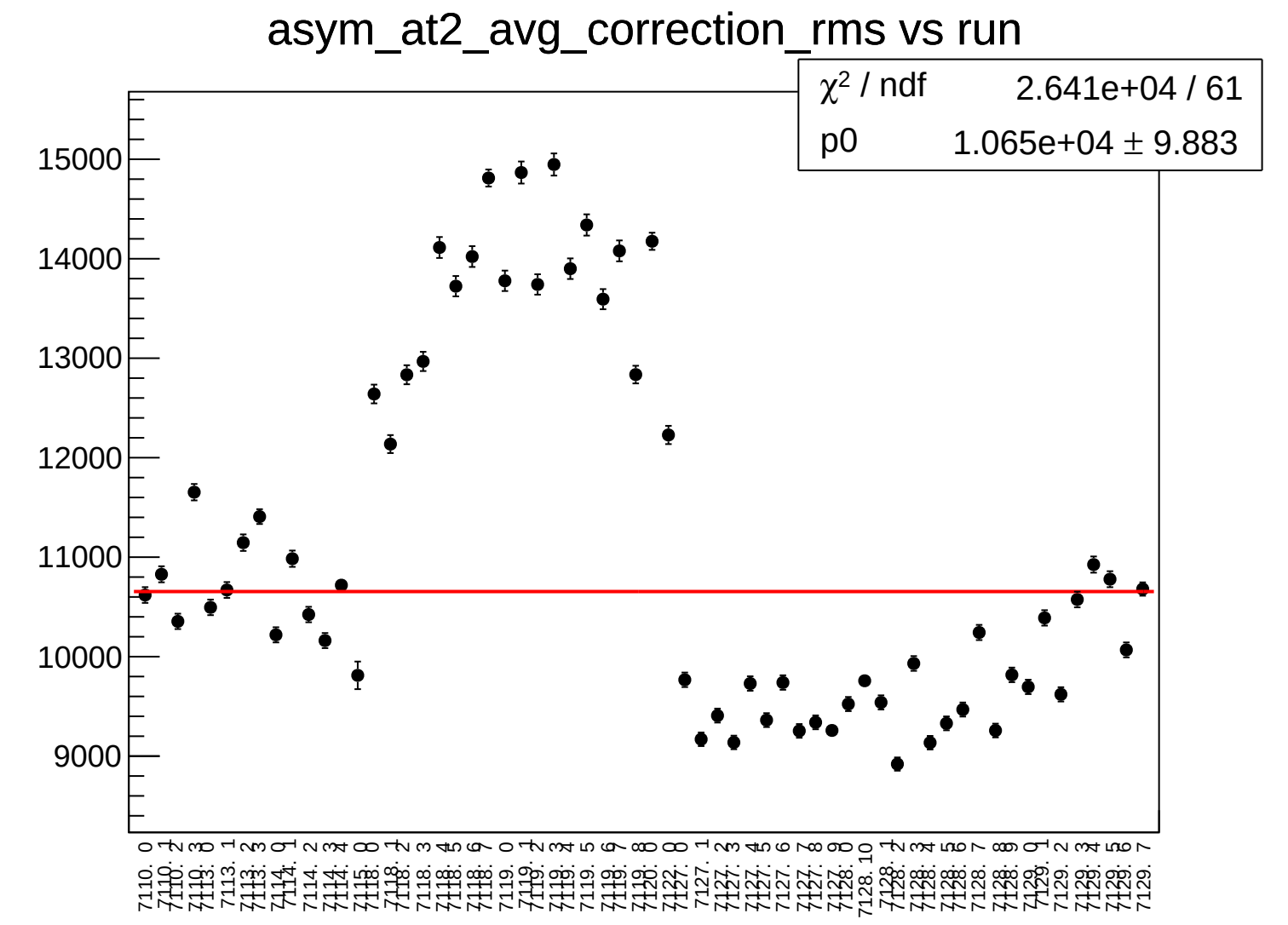

reg_asym_at2_avg_mean vs run
χ² / ndf 57 / 61
p0 9006 ± 2467
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 62
Mean 100
Std Dev 27.36
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

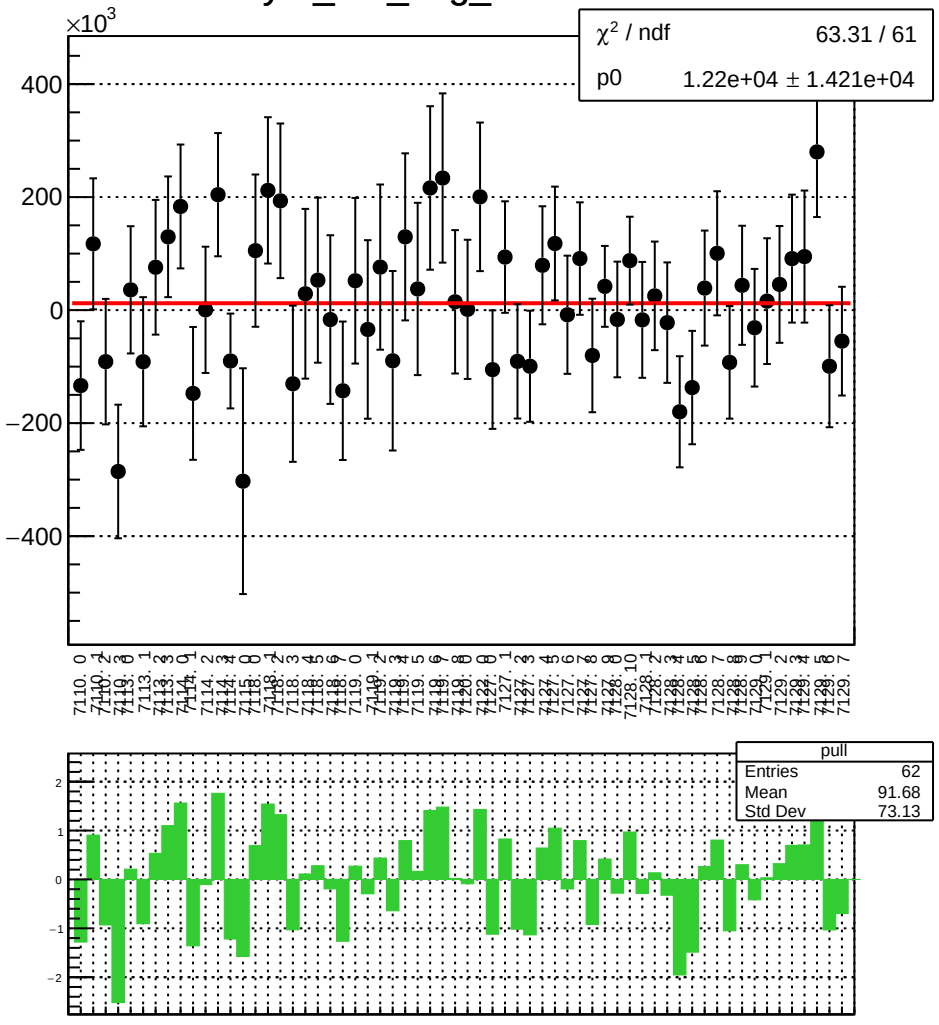

pull1D
Entries 62
Mean −0.009014
Std Dev 0.9588
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

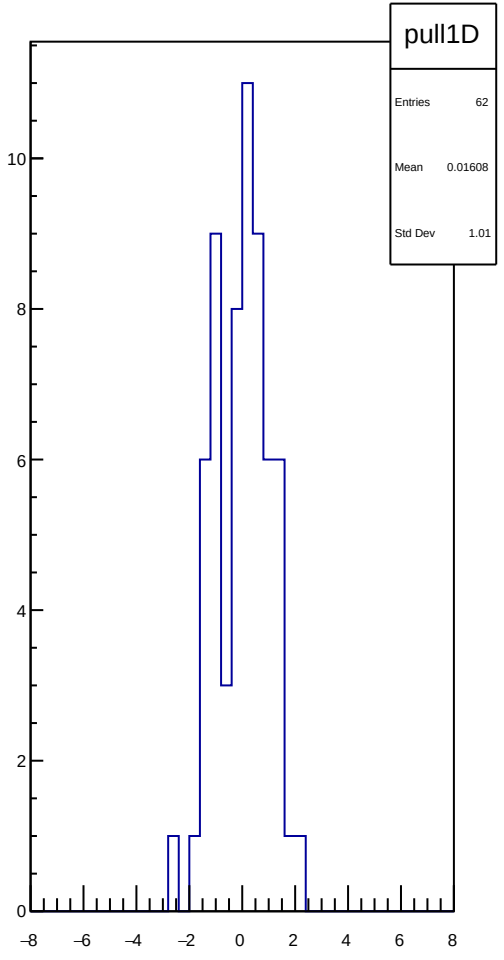

reg_asym_at2_avg_rms vs run
χ² / ndf 222.8 / 61
p0 1901 ± 1.744
2000
1980
1960
1940
1920
1900
1880
1860
1840
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

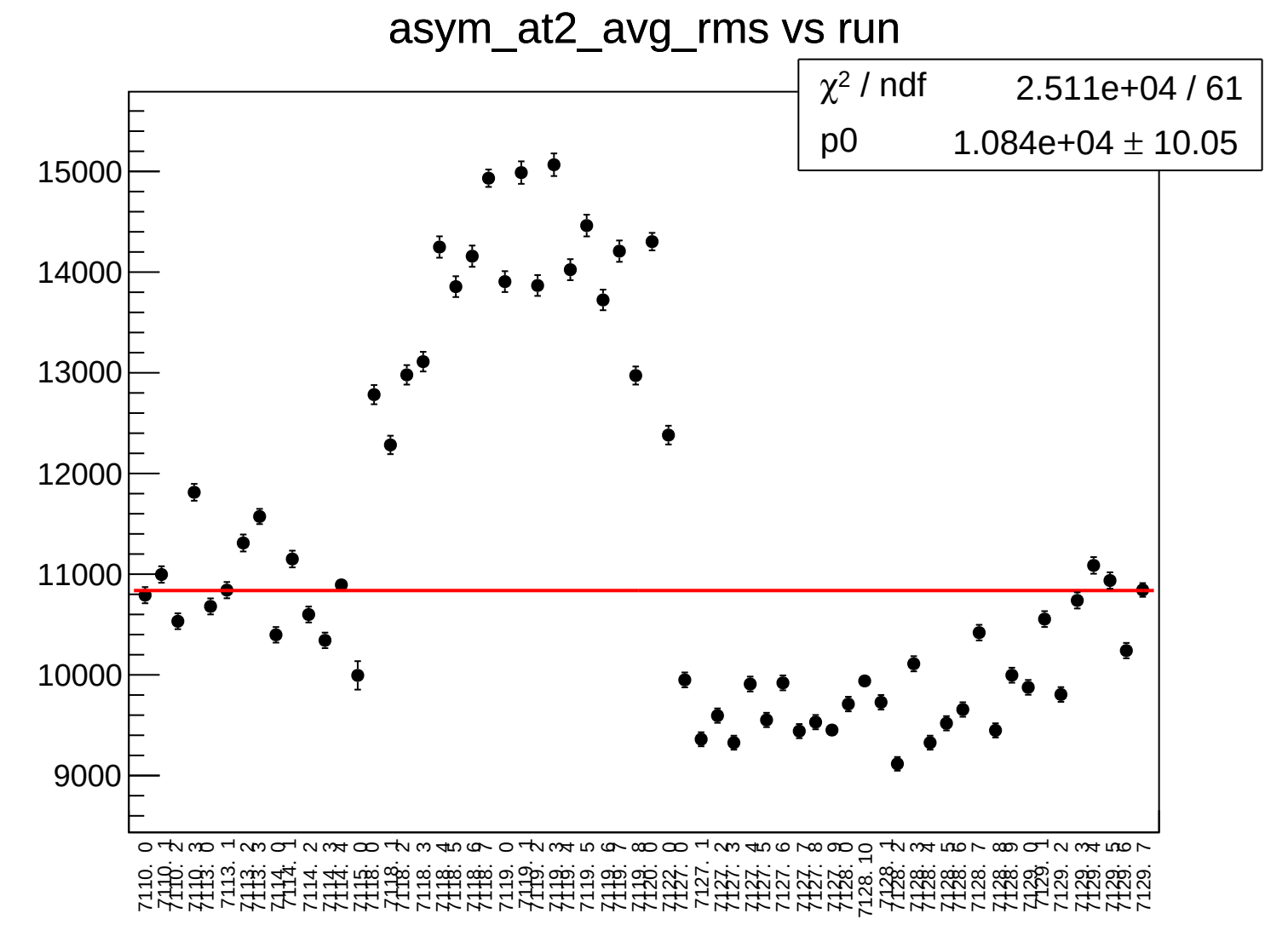

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 61.36 / 61
p0 −4303 ± 1.398e+04
600
400
200
0
−200
−400
pull
Entries 62
Mean 112
Std Dev 90.51
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

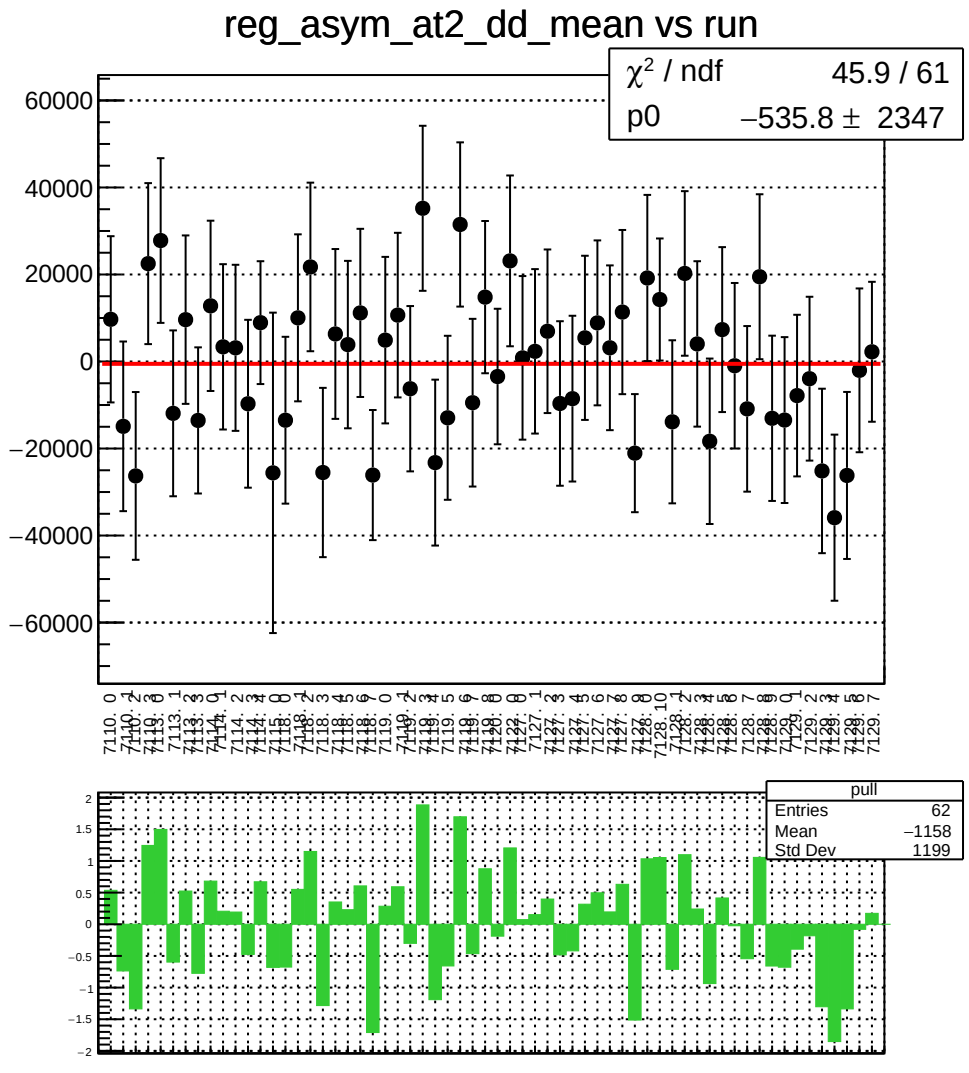

pull1D
Entries 62
Mean −0.01332
Std Dev 0.9948
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

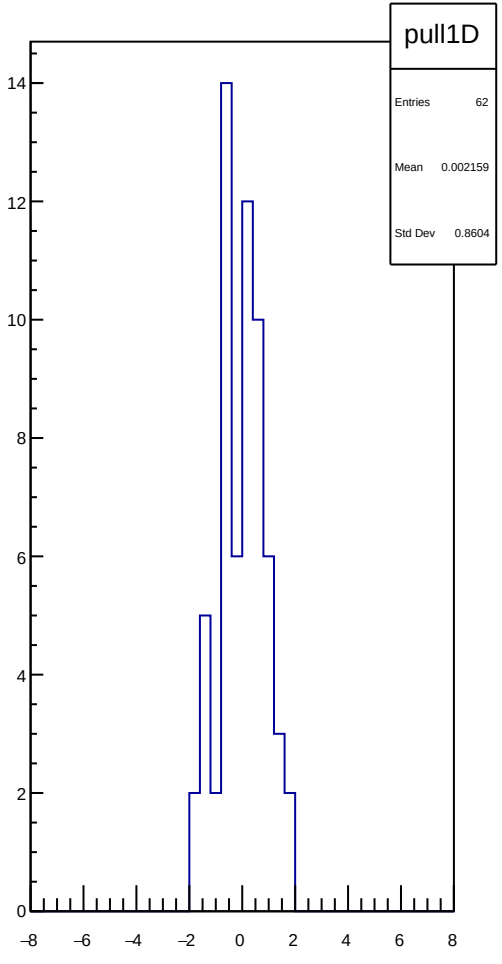

asym_at2_avg_correction_rms vs run
χ² / ndf 2.641e+04 / 61
p0 1.065e+04 ± 9.883
15000
14000
13000
12000
11000
10000
9000

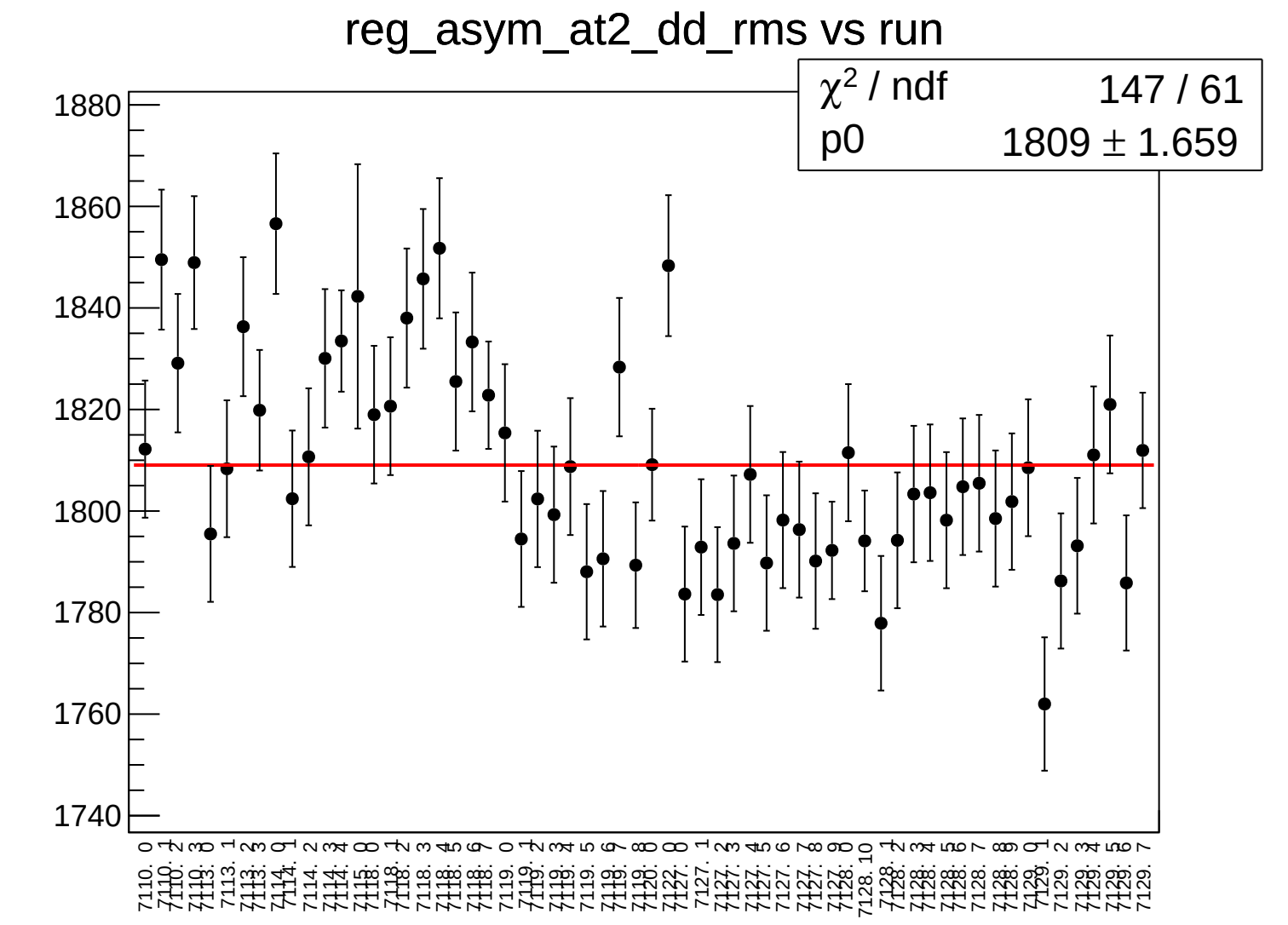

asym_at2_avg_mean vs run
×10^3
χ² / ndf 63.31 / 61
p0 1.22e+04 ± 1.421e+04
pull
Entries 62
Mean 91.68
Std Dev 73.13

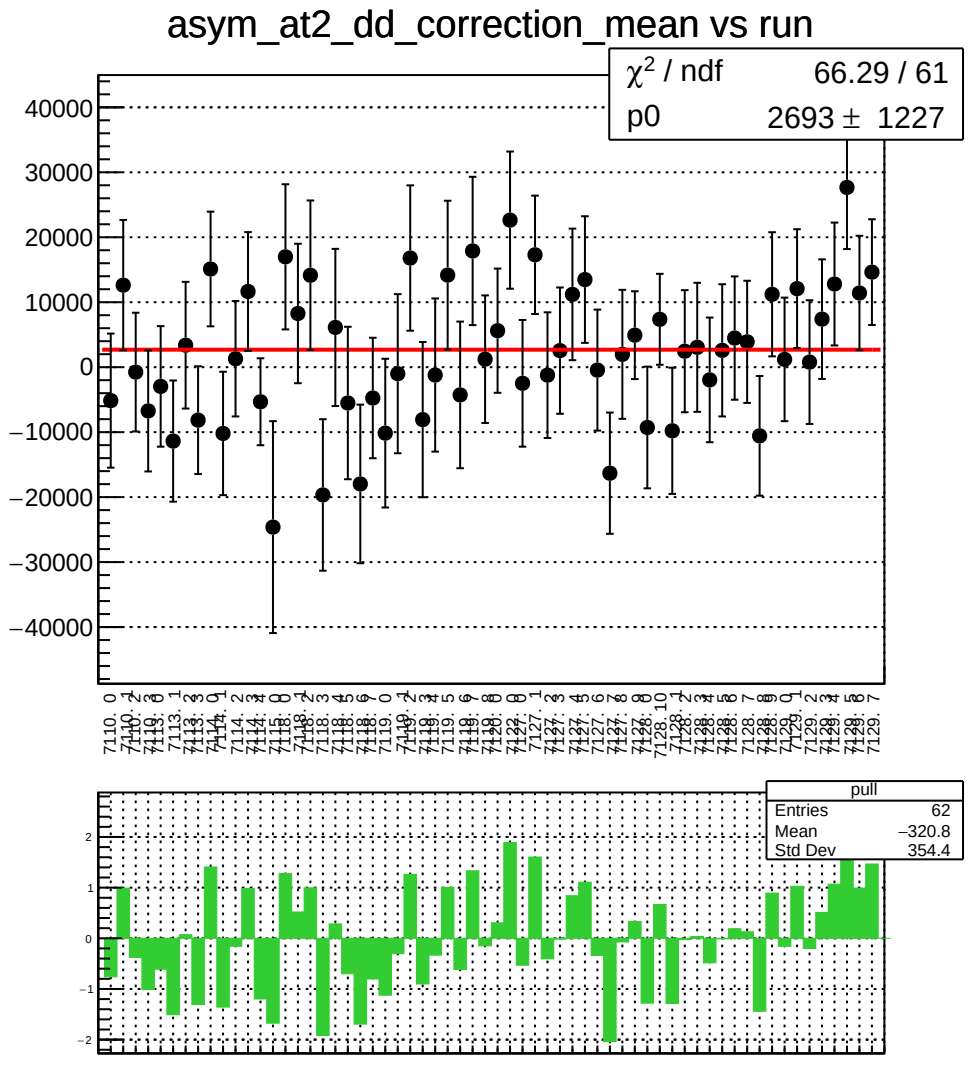

pull1D
Entries 62
Mean 0.01608
Std Dev 1.01

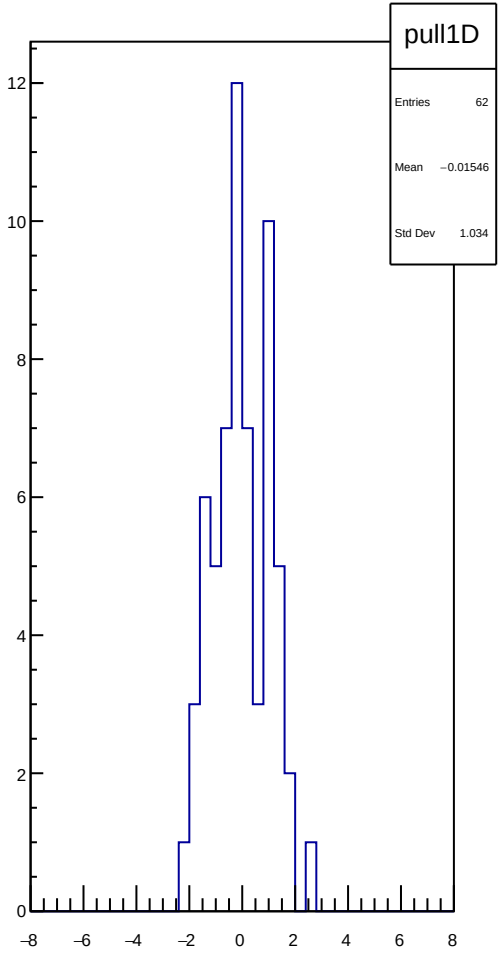

asym_at2_avg_rms vs run
χ² / ndf 2.511e+04 / 61
p0 1.084e+04 ± 10.05
15000
14000
13000
12000
11000
10000
9000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 8
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

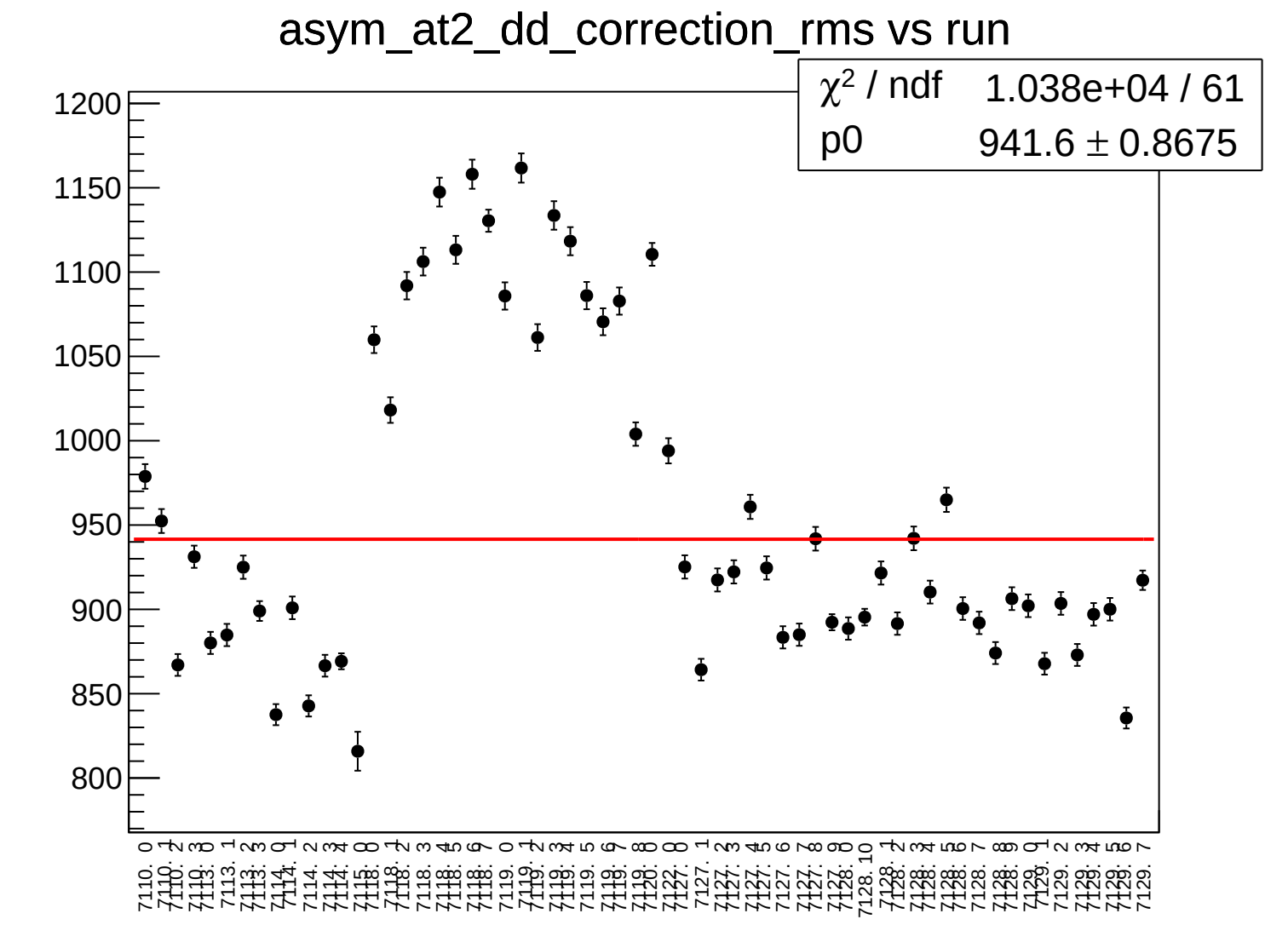

reg_asym_at2_dd_mean vs run
χ² / ndf 45.9 / 61
p0 −535.8 ± 2347
pull
Entries 62
Mean −1158
Std Dev 1199

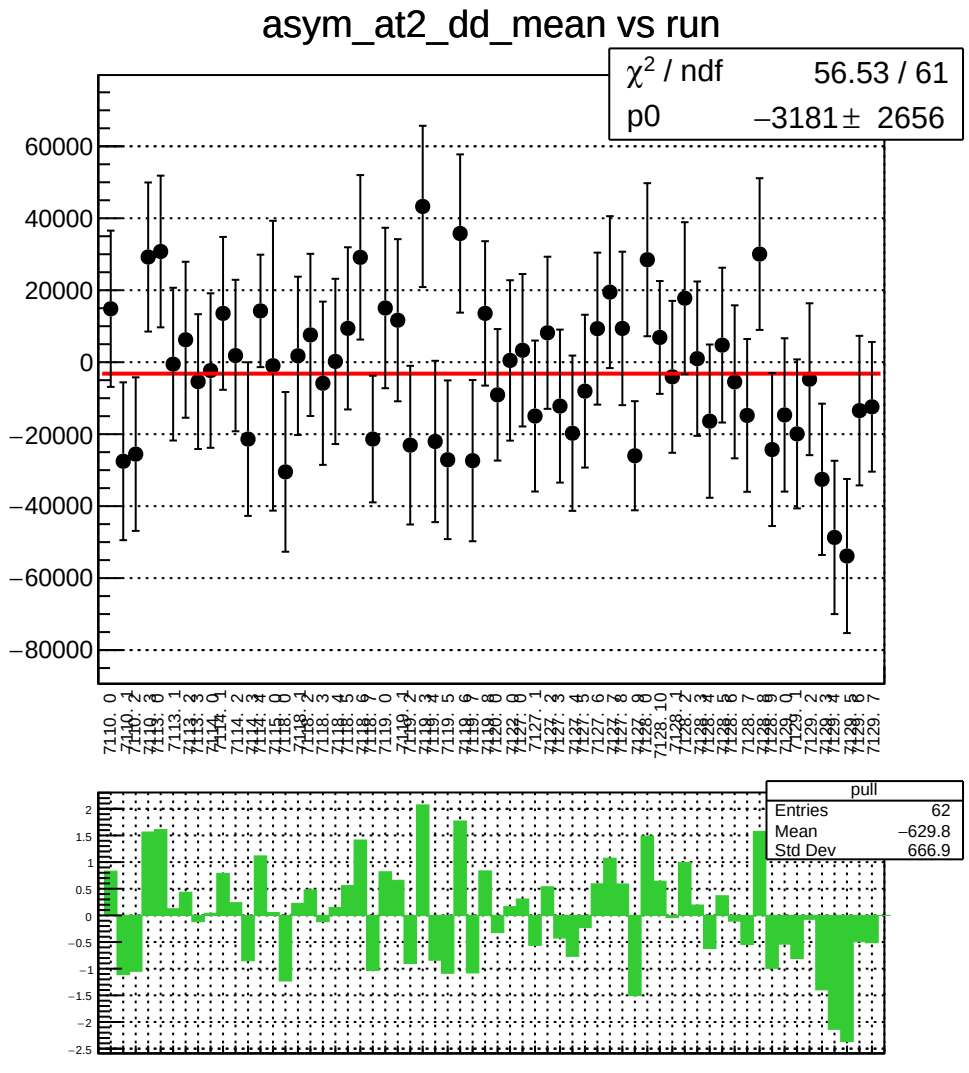

pull1D
Entries 62
Mean 0.002159
Std Dev 0.8604

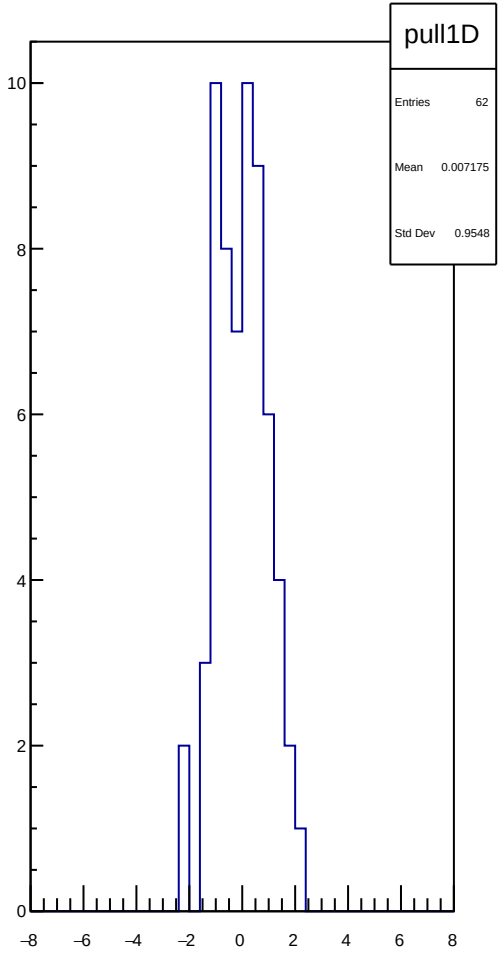

reg_asym_at2_dd_rms vs run
χ² / ndf 147 / 61
p0 1809 ± 1.659
1880
1860
1840
1820
1800
1780
1760
1740

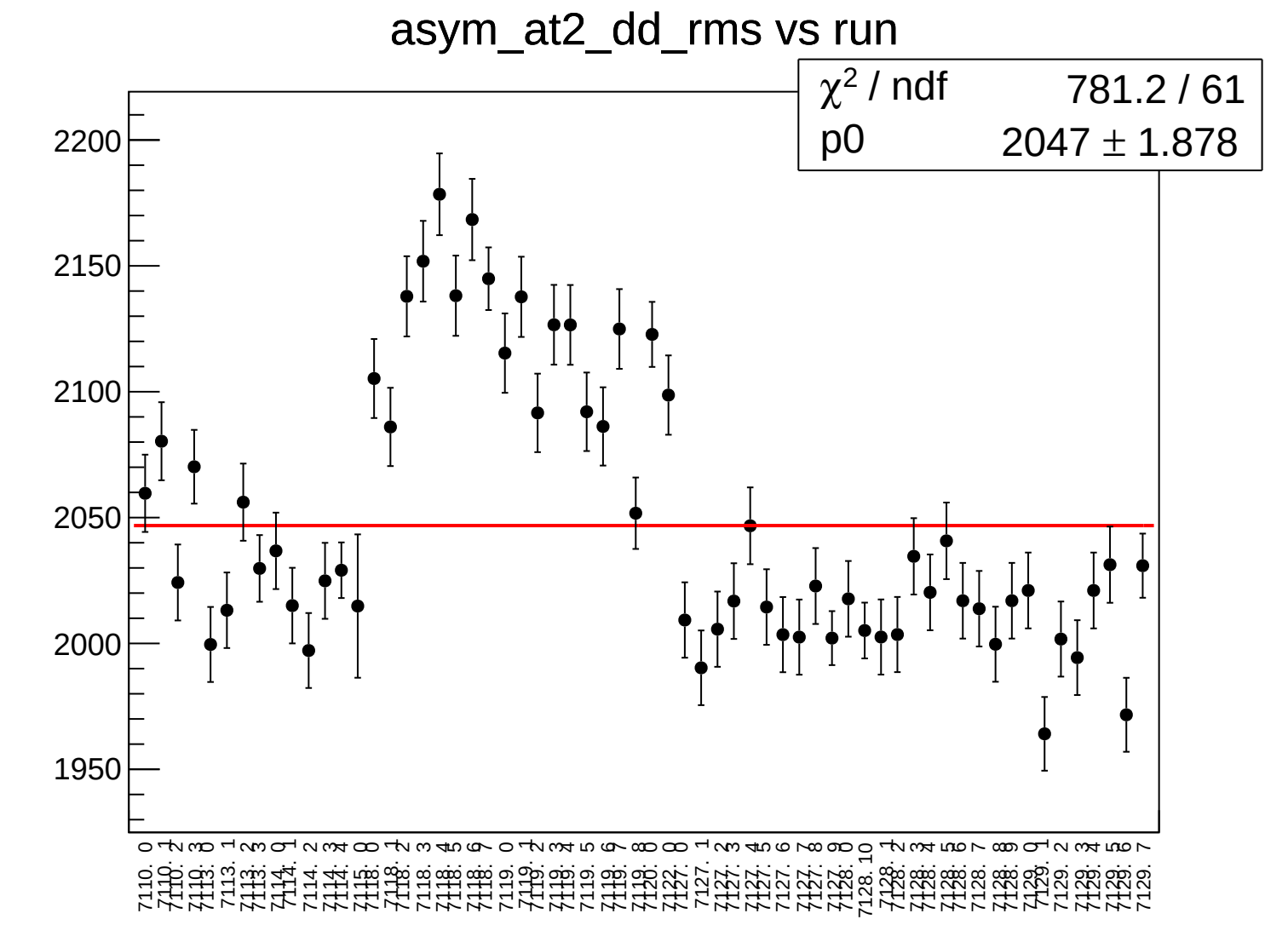

asym_at2_dd_correction_mean vs run
χ² / ndf 66.29 / 61
p0 2693 ± 1227
pull
Entries 62
Mean −320.8
Std Dev 354.4

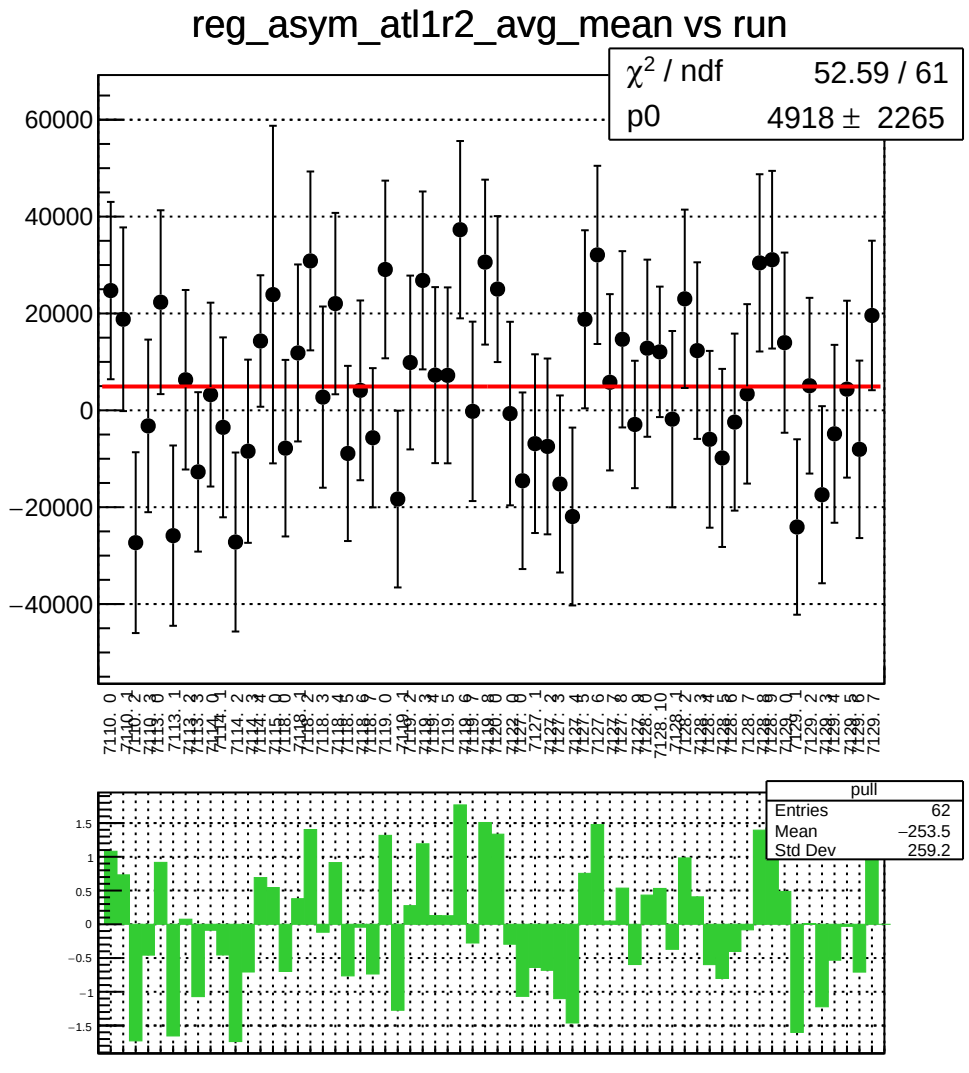

pull1D
Entries 62
Mean −0.01546
Std Dev 1.034

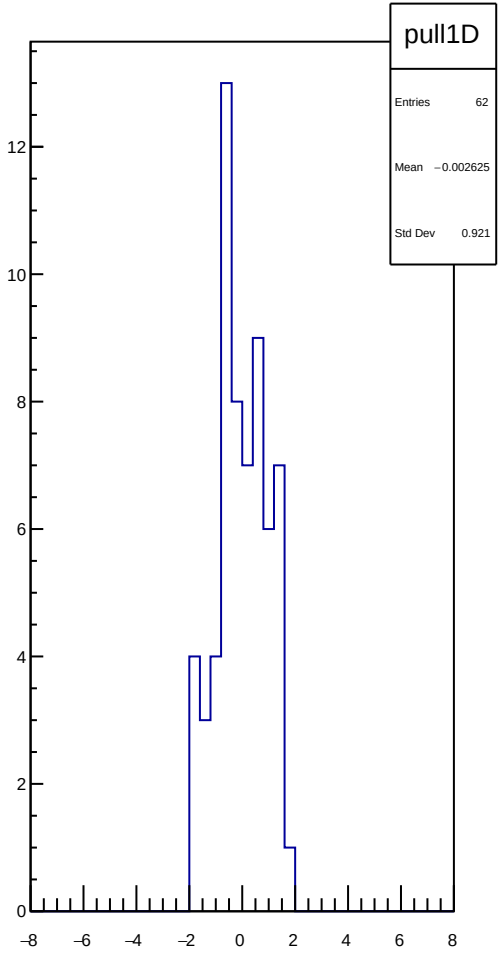

asym_at2_dd_correction_rms vs run
χ² / ndf 1.038e+04 / 61
p0 941.6 ± 0.8675
1200
1150
1100
1050
1000
950
900
850
800
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 1
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

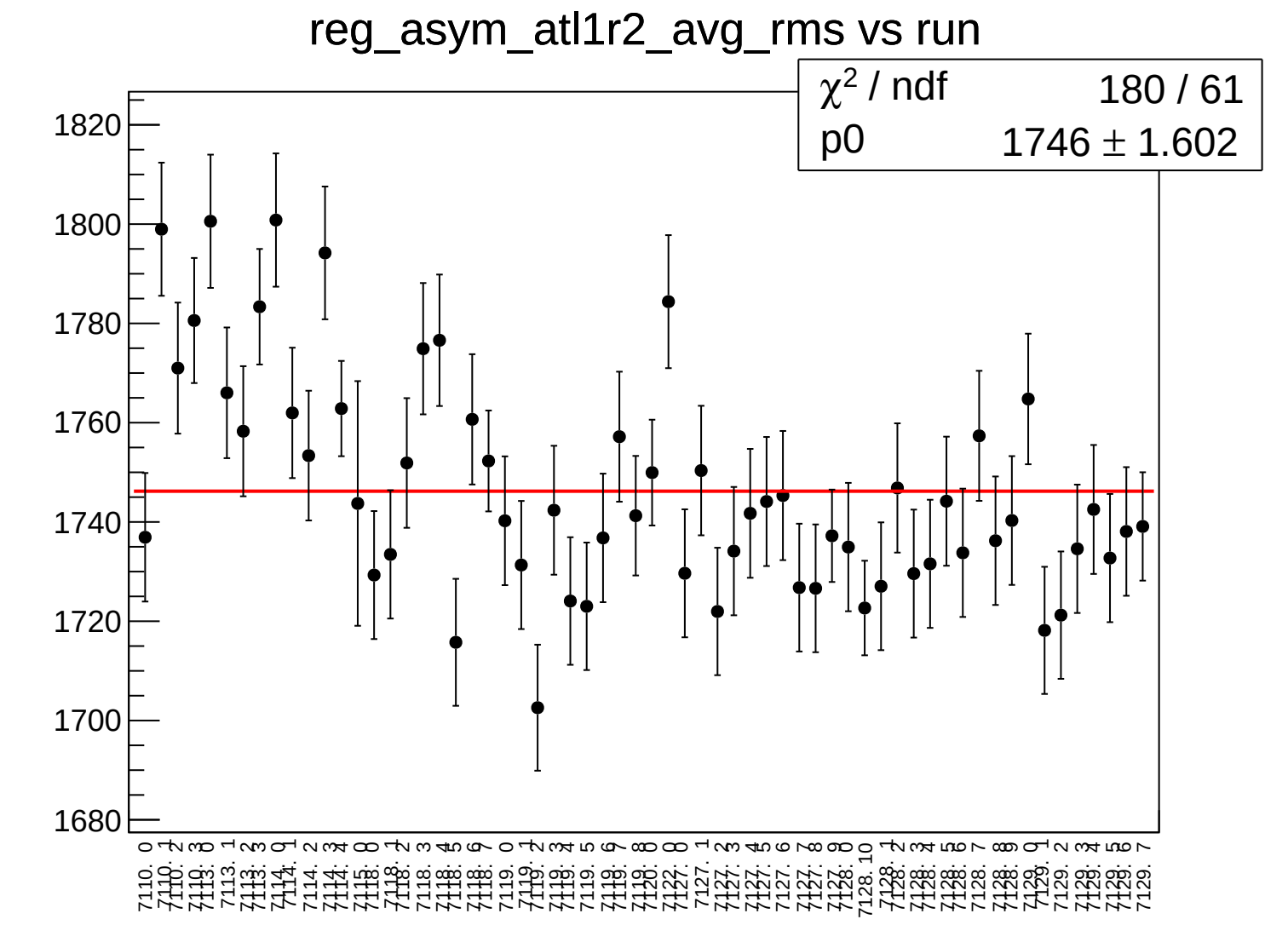

asym_at2_dd_mean vs run
χ² / ndf 56.53 / 61
p0 −3181 ± 2656
pull
Entries 62
Mean −629.8
Std Dev 666.9

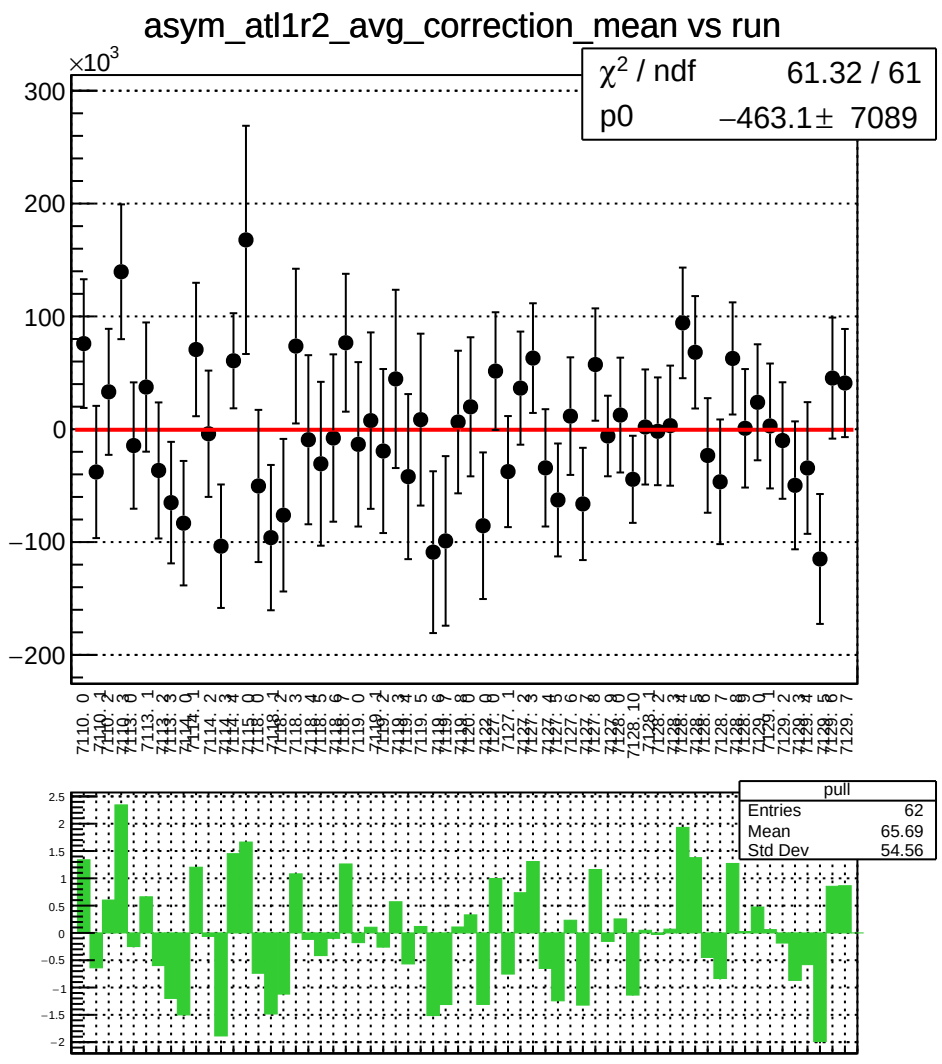

pull1D
Entries 62
Mean 0.007175
Std Dev 0.9548

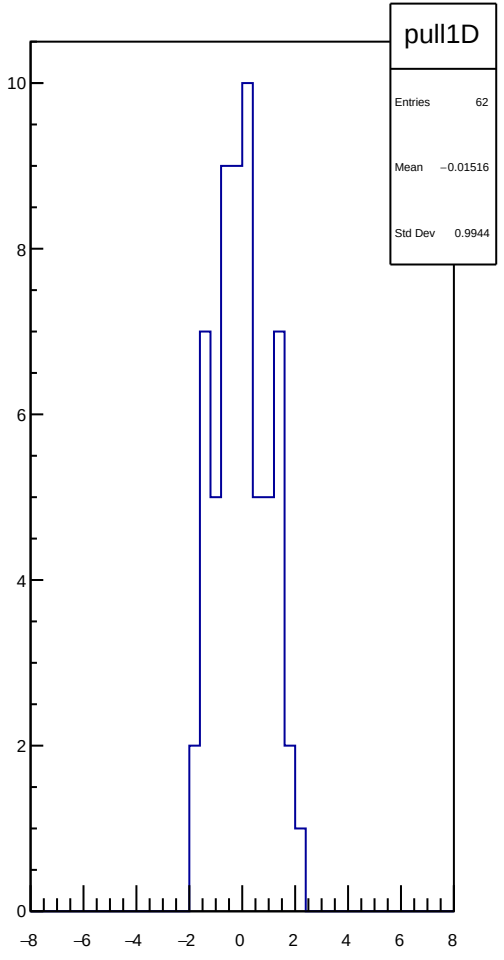

asym_at2_dd_rms vs run
χ^2 / ndf 781.2 / 61
p0 2047 ± 1.878
2200
2150
2100
2050
2000
1950

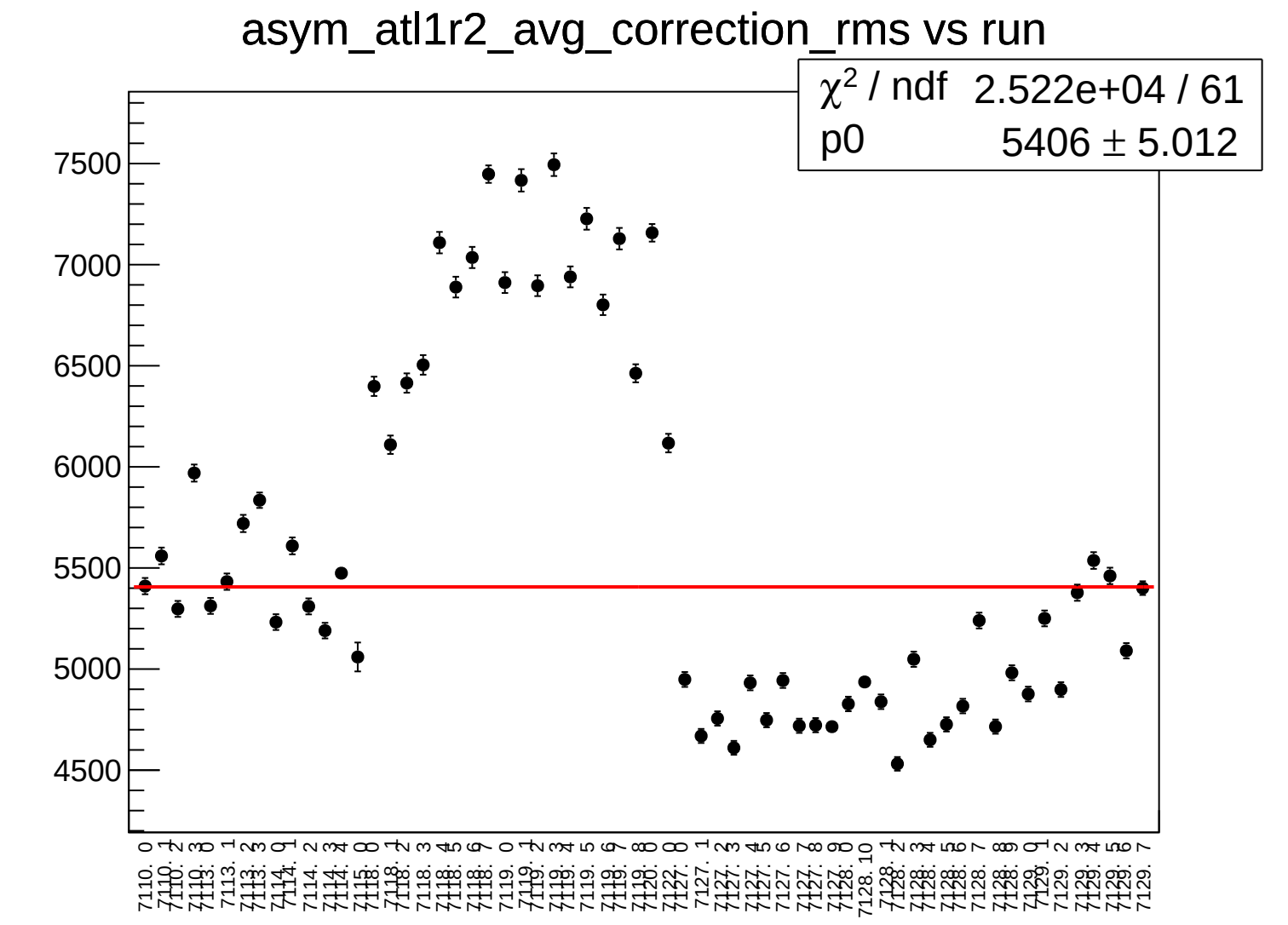

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 52.59 / 61
p0 4918 ± 2265
60000
40000
20000
0
−20000
−40000
pull
Entries 62
Mean −253.5
Std Dev 259.2
1.5
1
0.5
0
−0.5
−1
−1.5

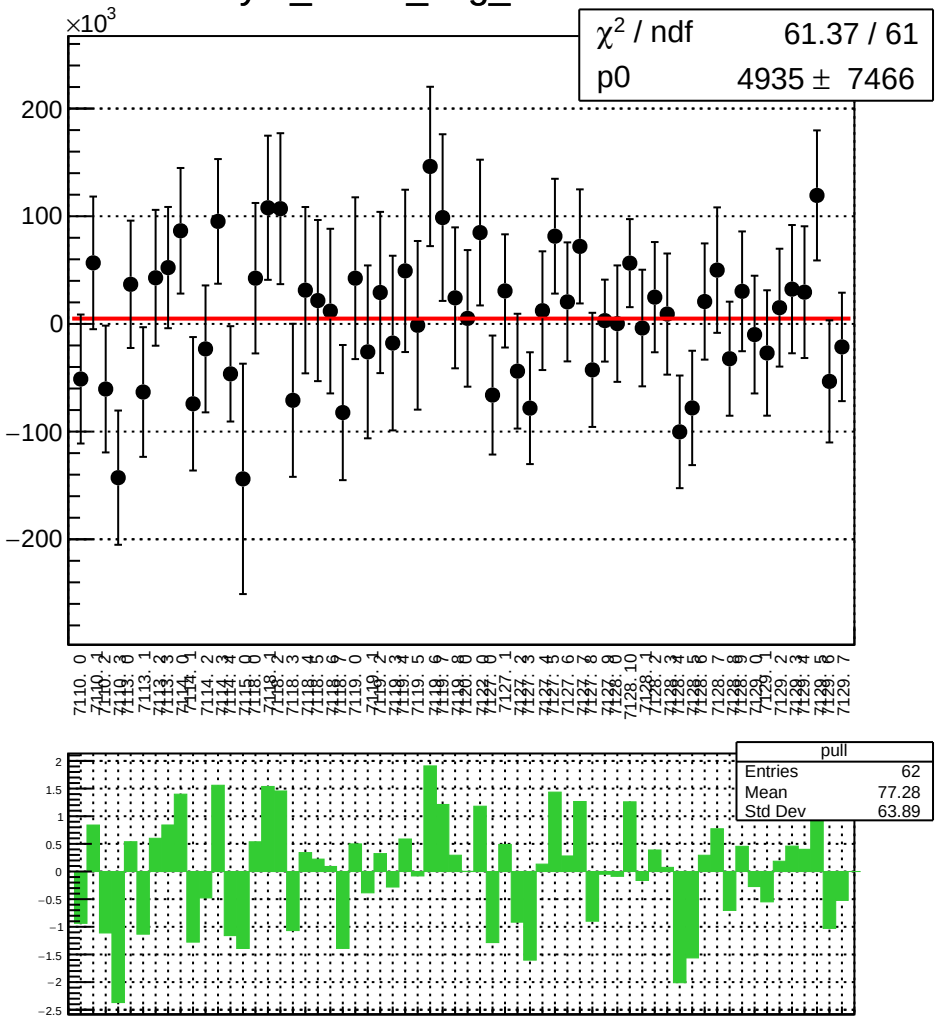

pull1D
Entries 62
Mean −0.002625
Std Dev 0.921
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

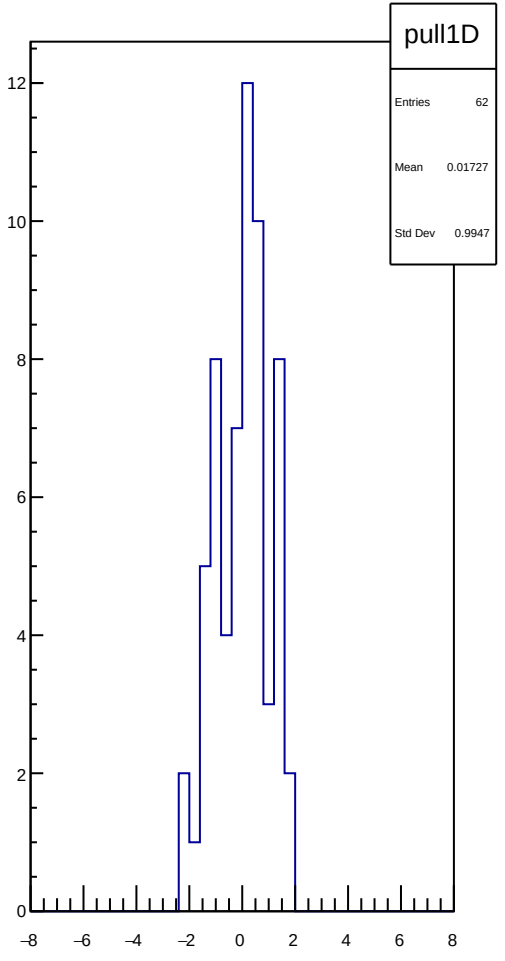

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 180 / 61
p0 1746 ± 1.602
1820
1800
1780
1760
1740
1720
1700
1680

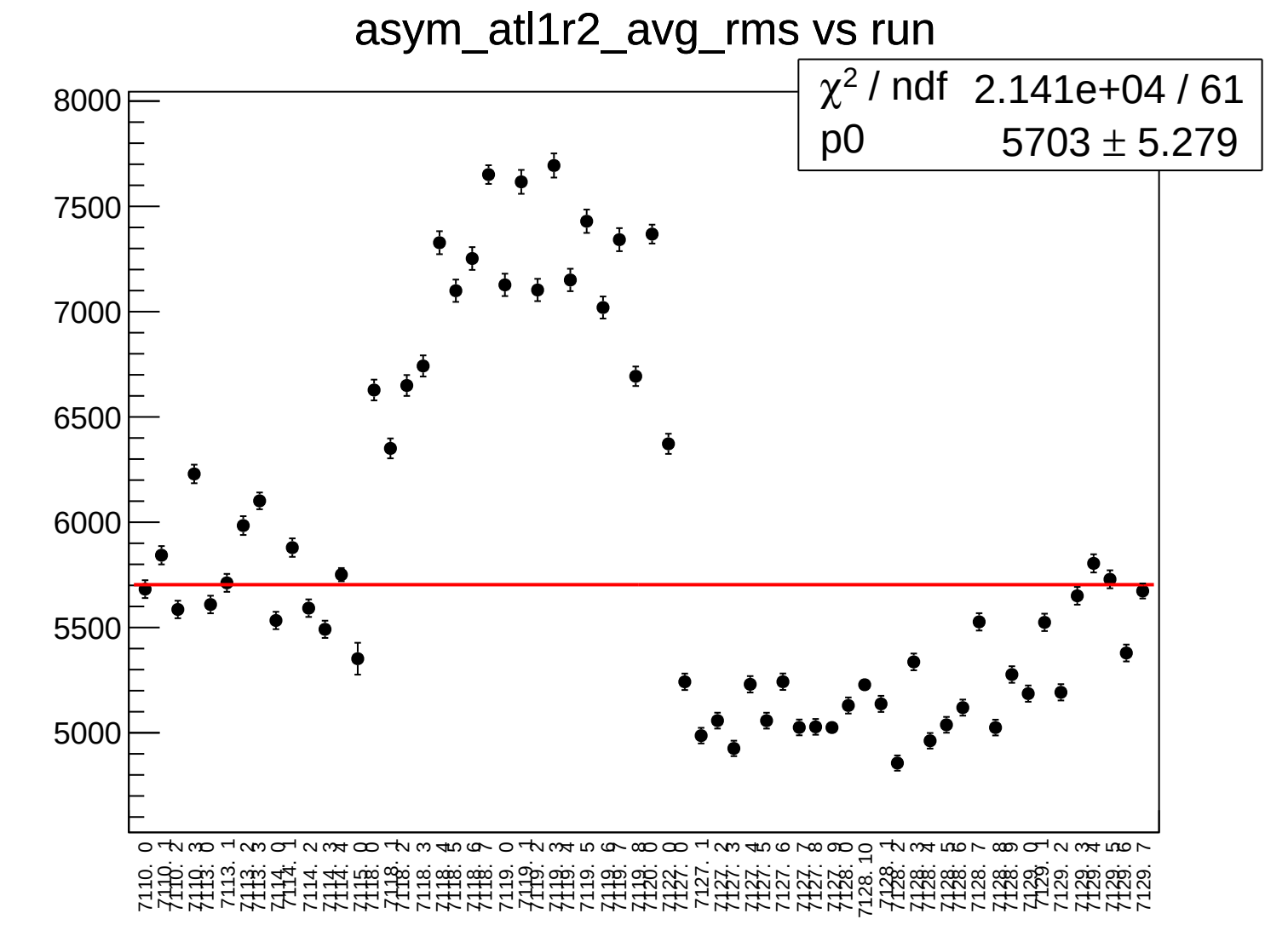

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 61.32 / 61
p0 −463.1± 7089
pull
Entries 62
Mean 65.69
Std Dev 54.56

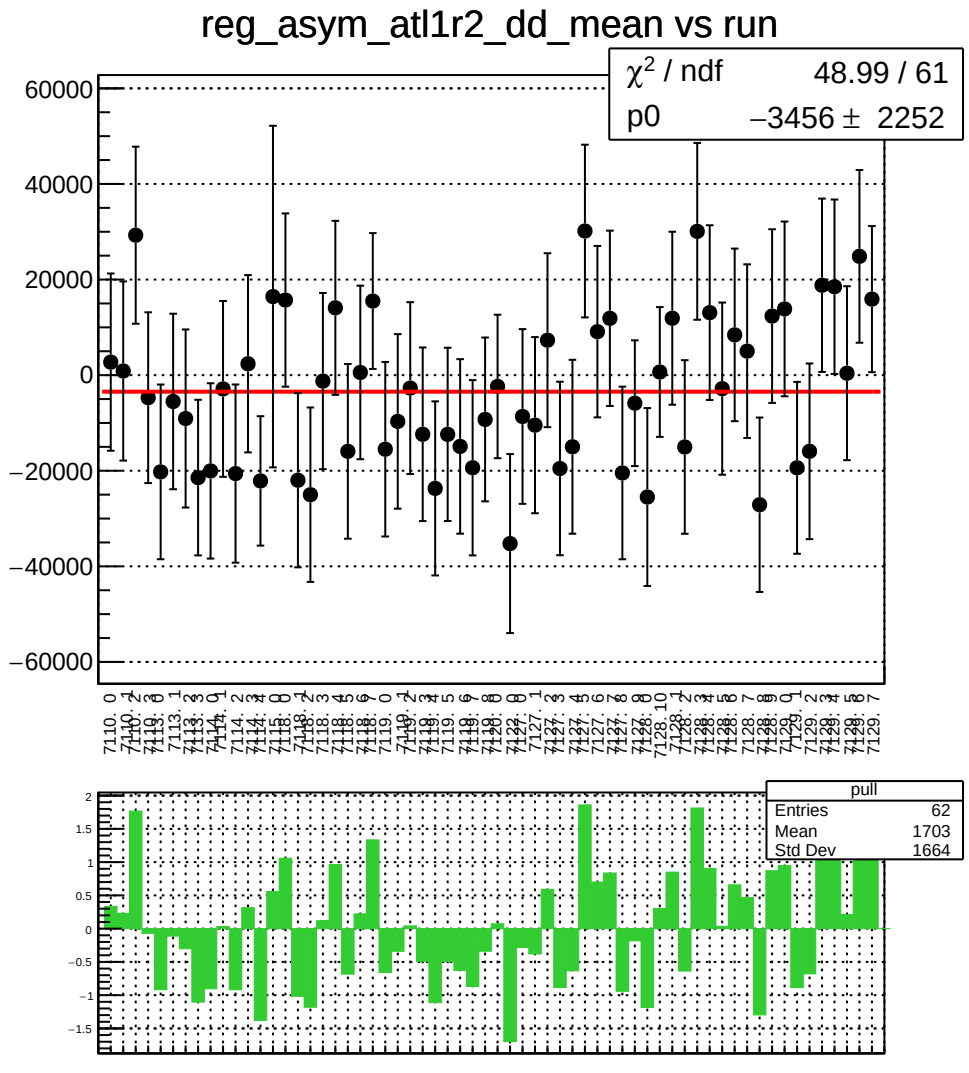

pull1D
Entries 62
Mean −0.01516
Std Dev 0.9944

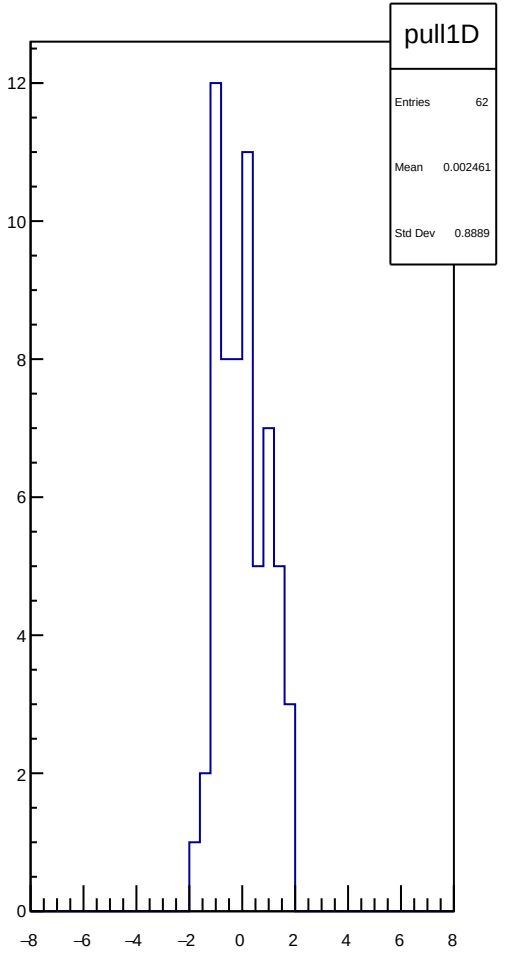

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 2.522e+04 / 61
p0 5406 ± 5.012
7500
7000
6500
6000
5500
5000
4500

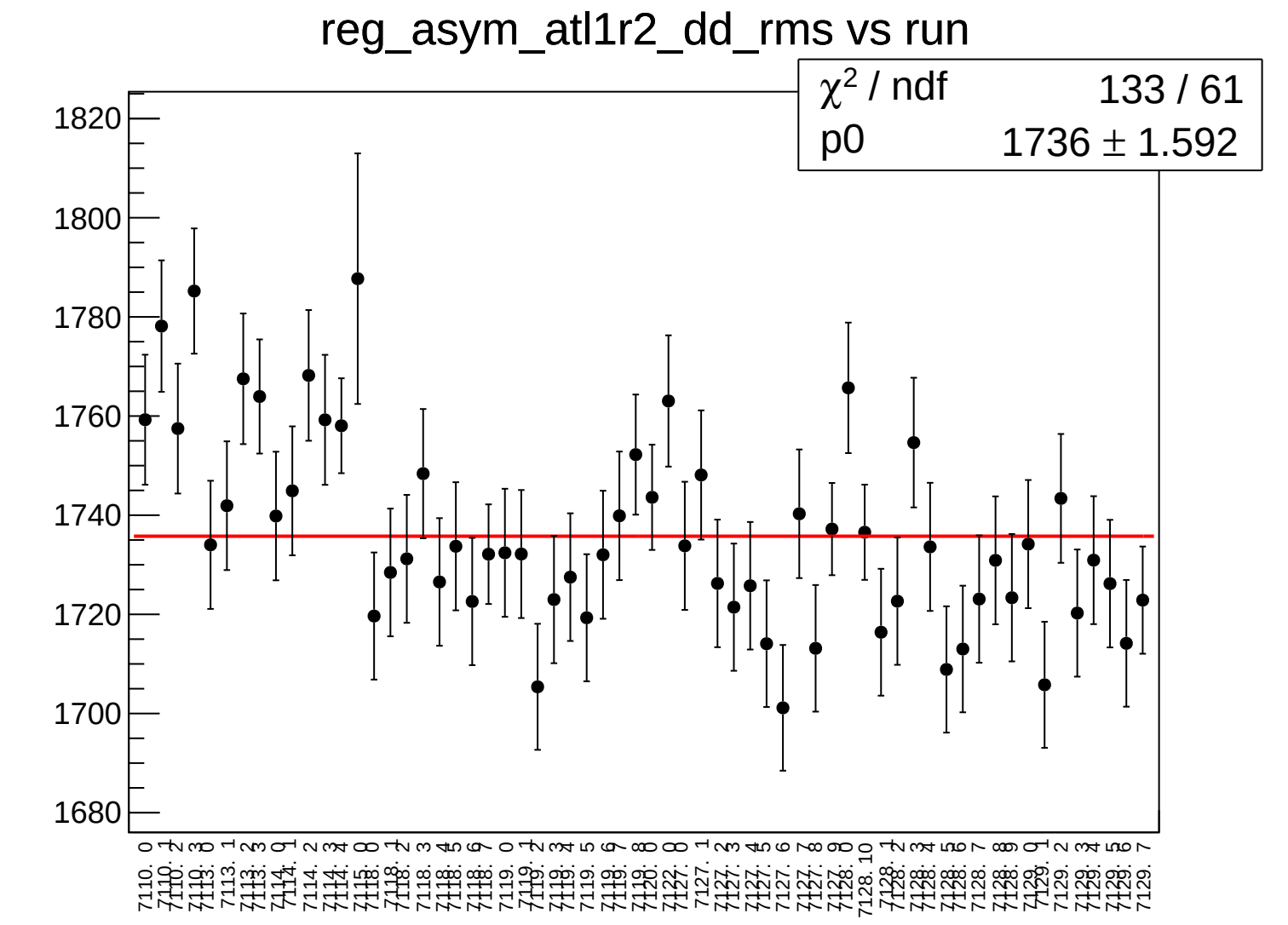

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 61.37 / 61
p0 4935 ± 7466
200
100
0
−100
−200
pull
Entries 62
Mean 77.28
Std Dev 63.89
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

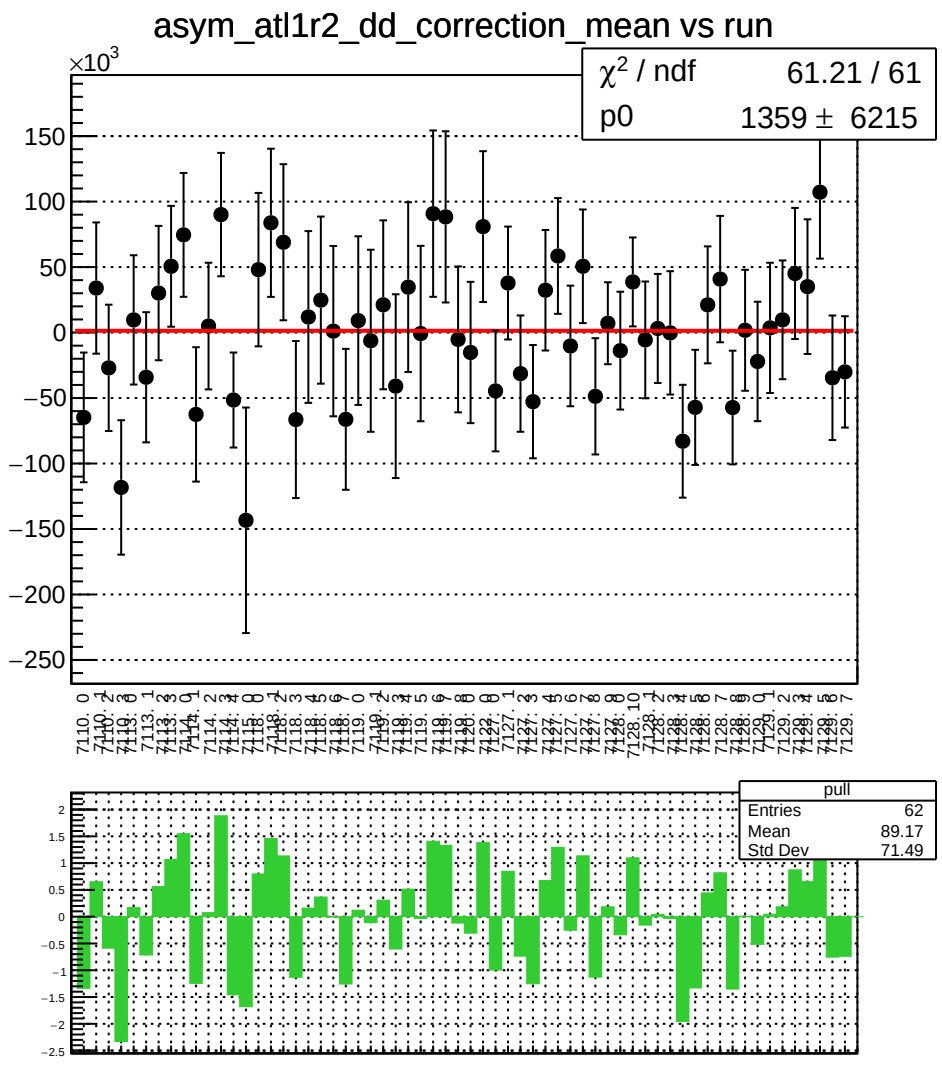

pull1D
Entries 62
Mean 0.01727
Std Dev 0.9947
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

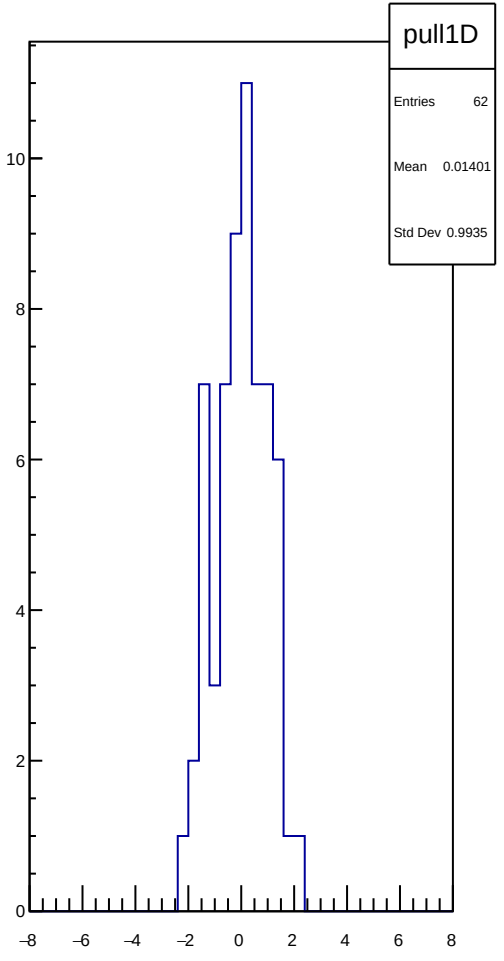

asym_atl1r2_avg_rms vs run
χ² / ndf 2.141e+04 / 61
p0 5703 ± 5.279
8000
7500
7000
6500
6000
5500
5000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 8
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

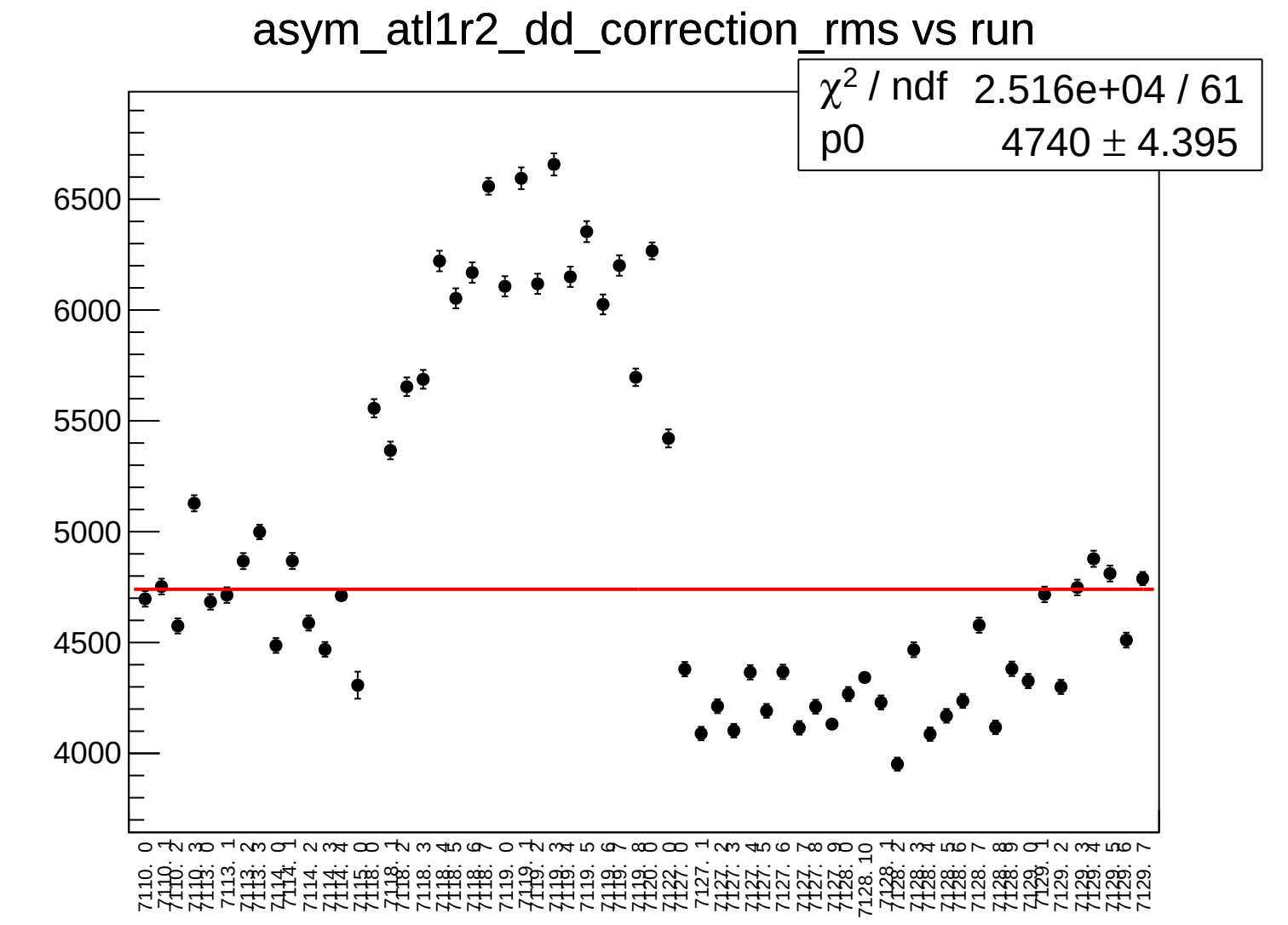

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 48.99 / 61
p0 −3456 ± 2252
pull
Entries 62
Mean 1703
Std Dev 1664

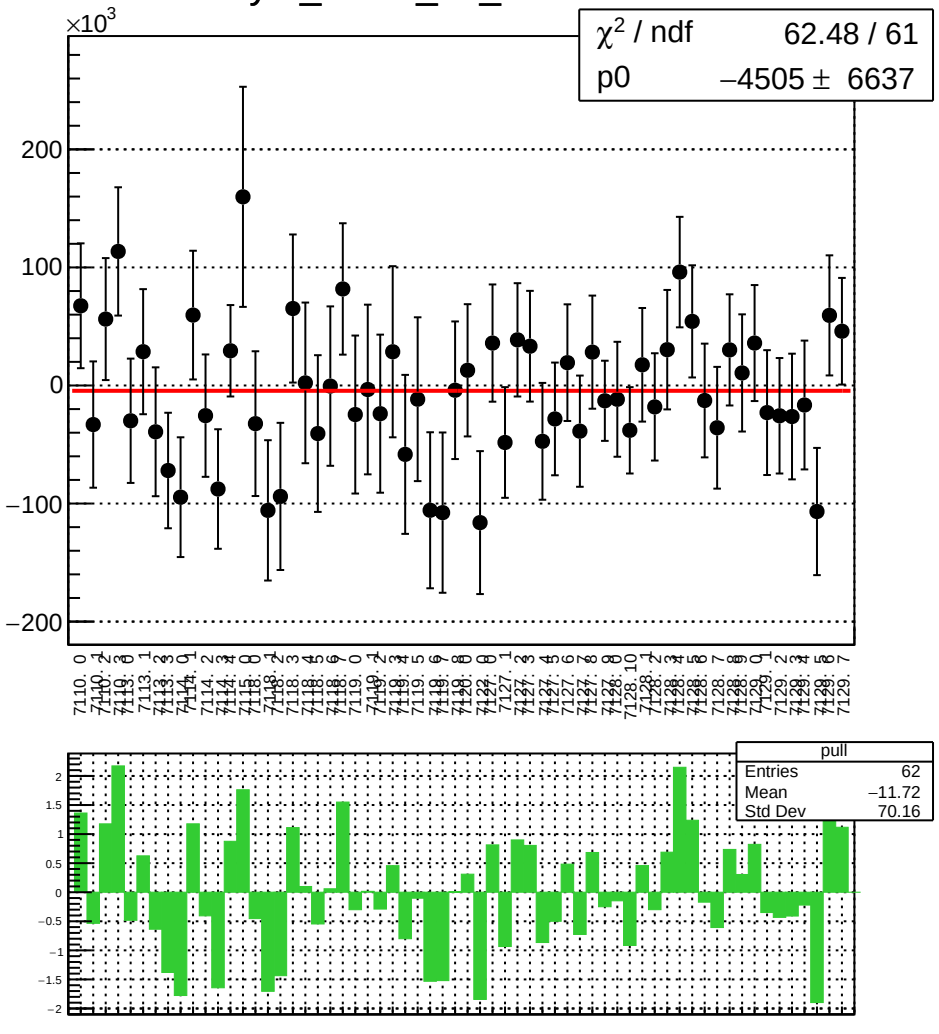

pull1D
Entries 62
Mean 0.002461
Std Dev 0.8889

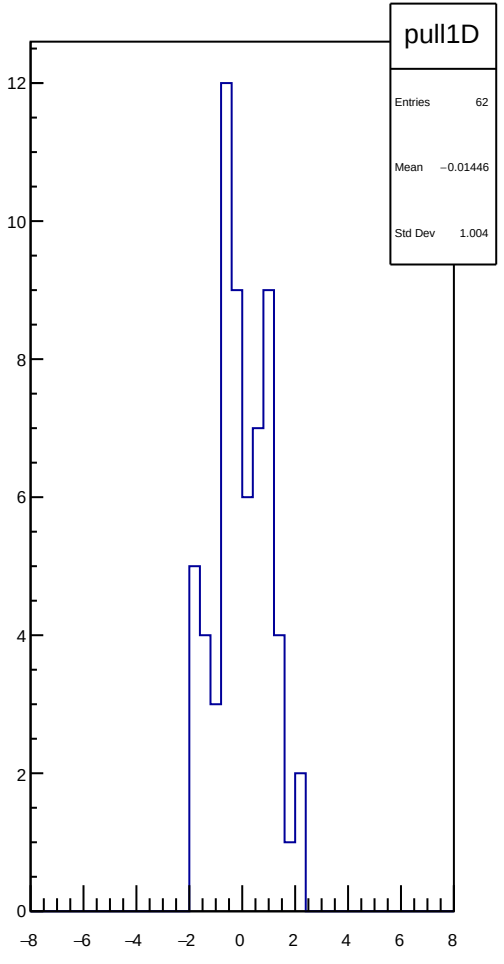

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 133 / 61
p0 1736 ± 1.592
1820
1800
1780
1760
1740
1720
1700
1680

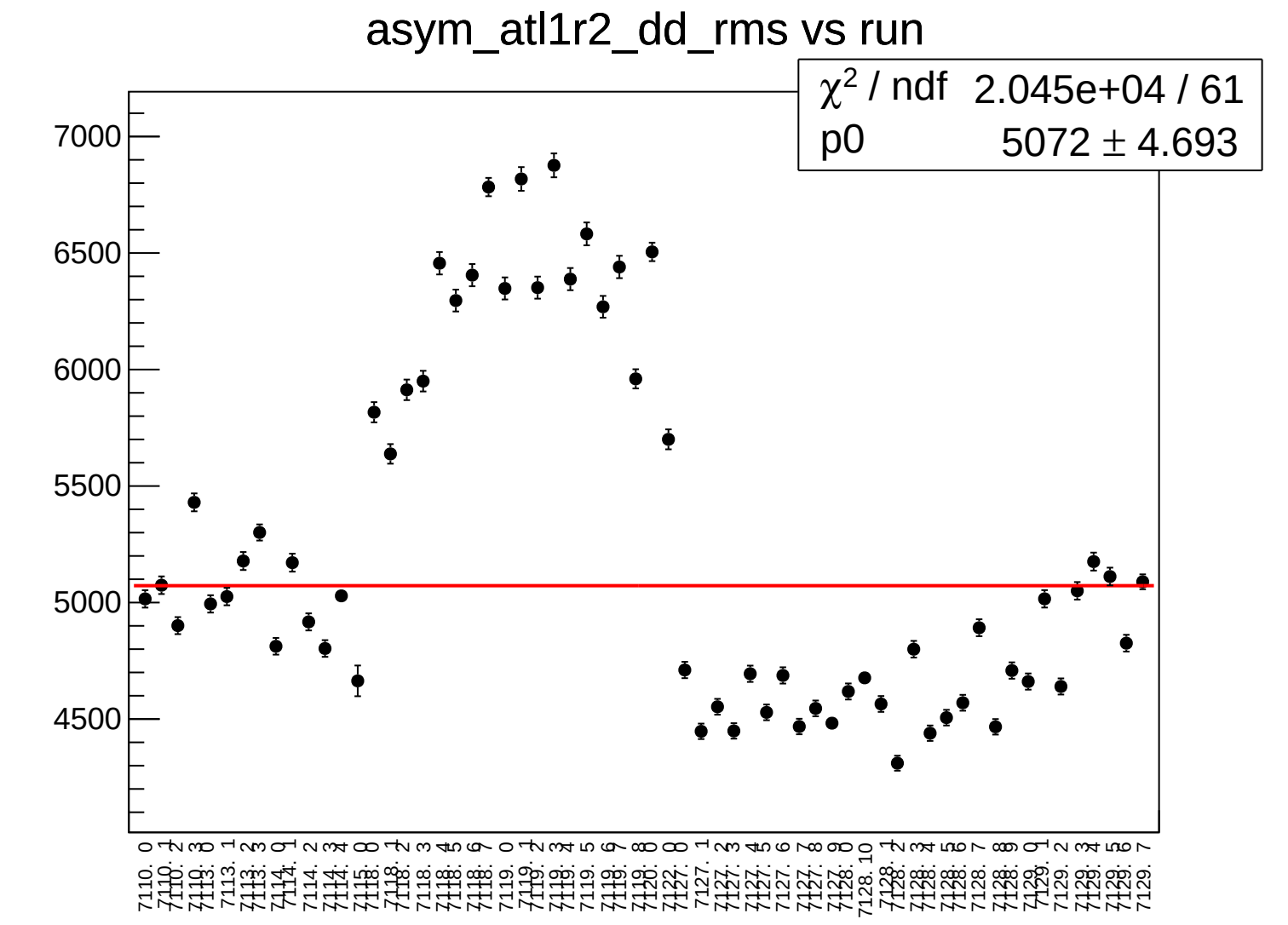

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 61.21 / 61
p0 1359 ± 6215
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 62
Mean 89.17
Std Dev 71.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

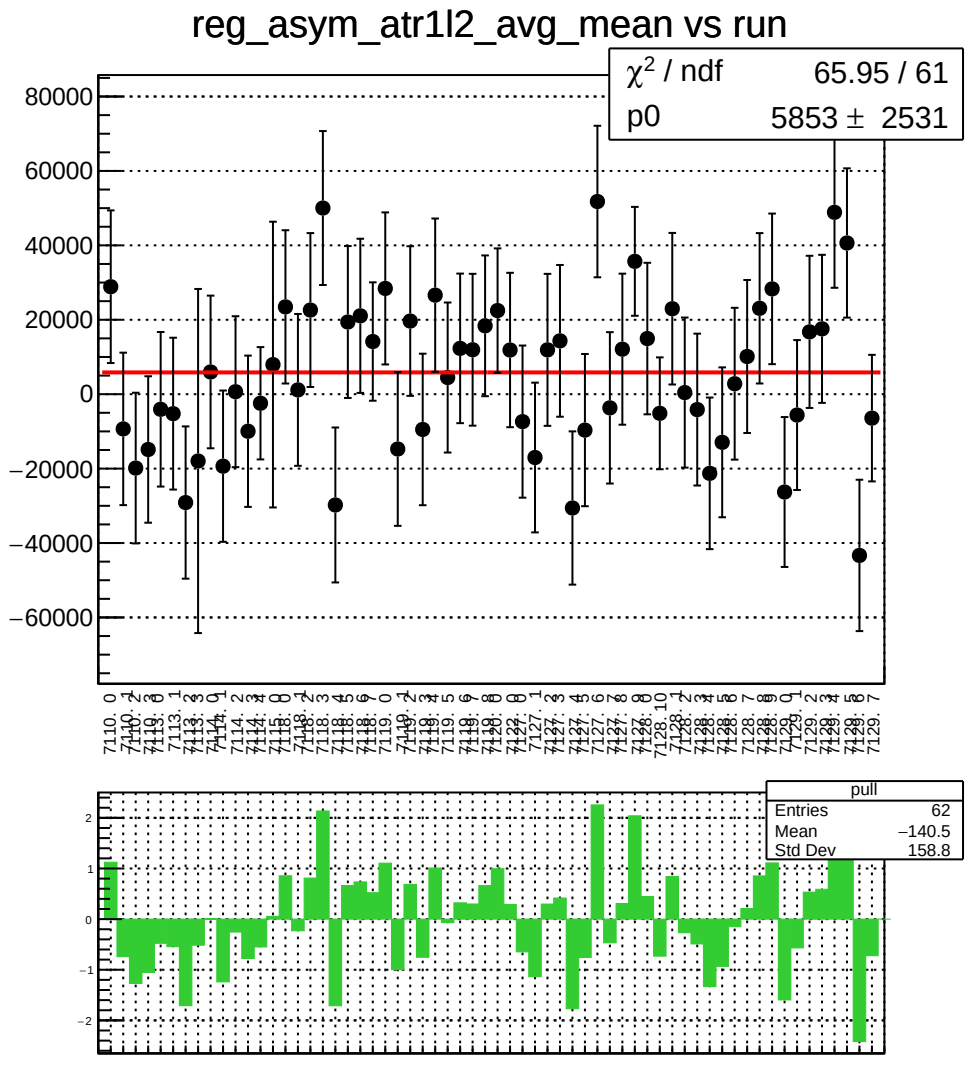

pull1D
Entries 62
Mean 0.01401
Std Dev 0.9935
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

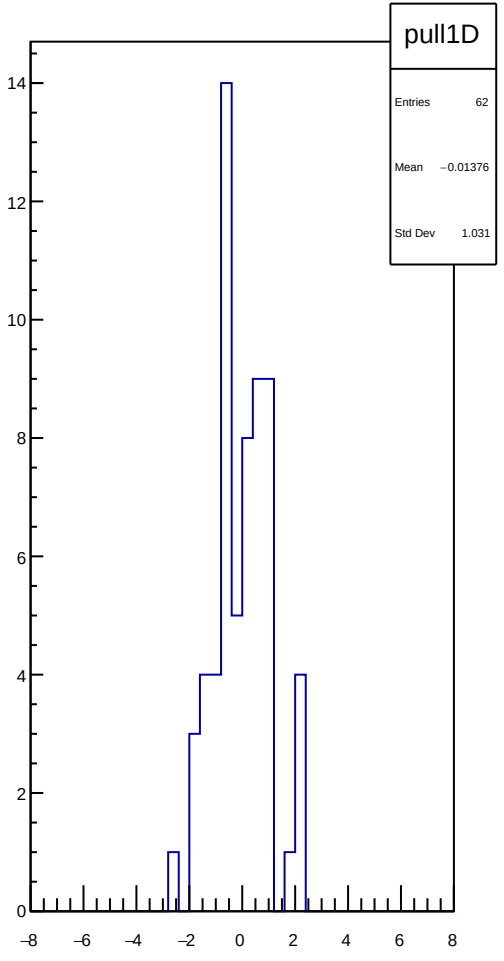

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 2.516e+04 / 61
p0 4740 ± 4.395
6500
6000
5500
5000
4500
4000

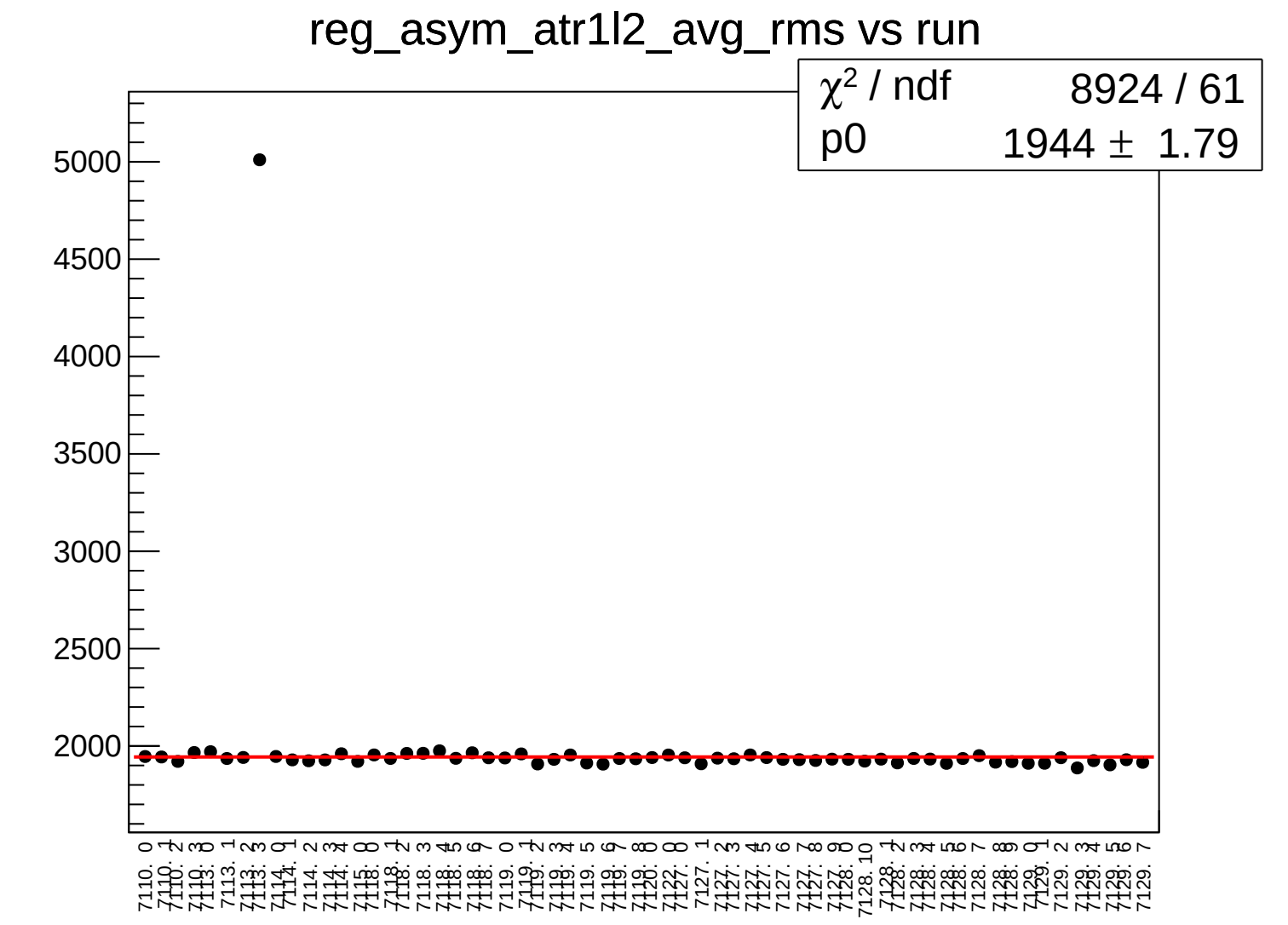

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 62.48 / 61
p0 −4505 ± 6637
200
100
0
−100
−200
pull
Entries 62
Mean −11.72
Std Dev 70.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

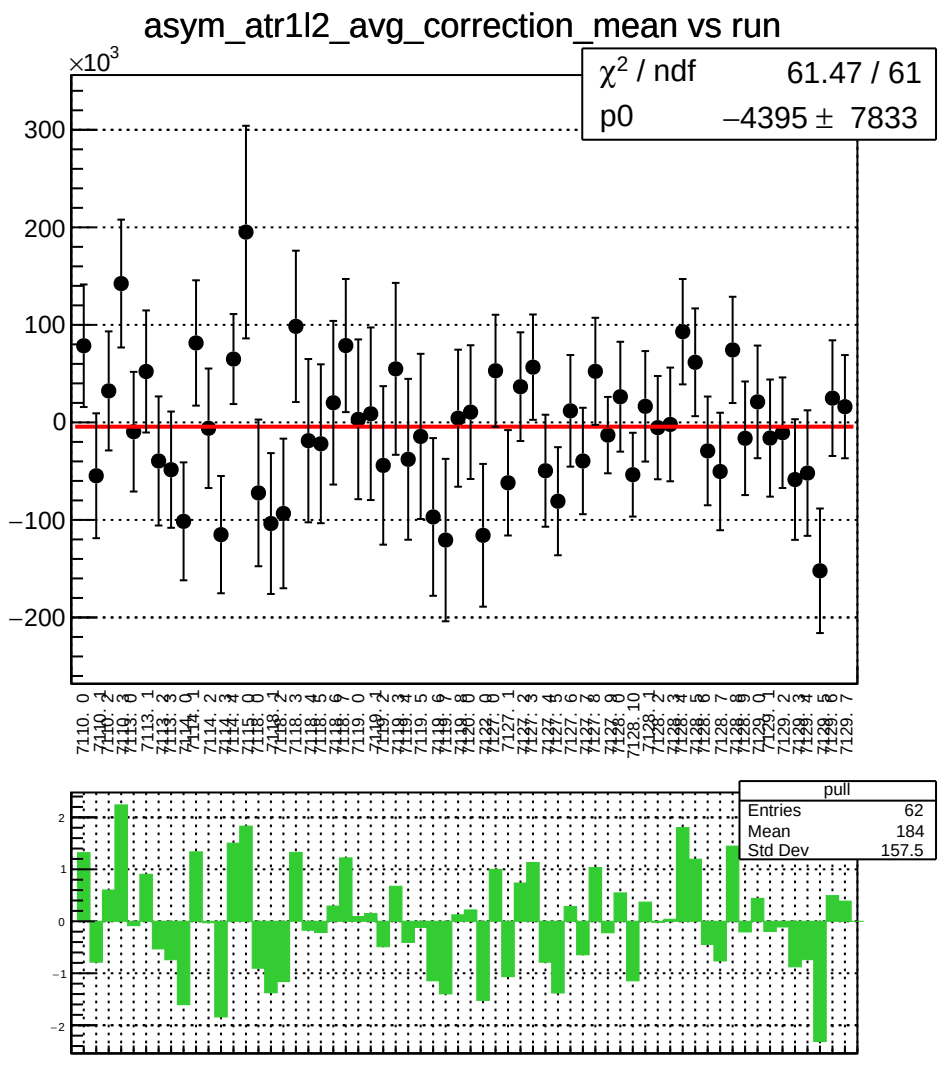

pull1D
Entries 62
Mean −0.01446
Std Dev 1.004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

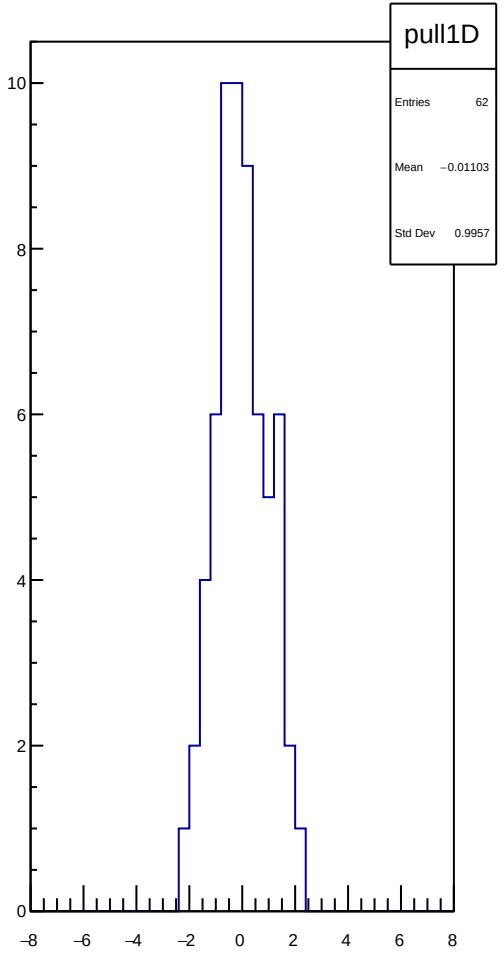

asym_atl1r2_dd_rms vs run
χ² / ndf 2.045e+04 / 61
p0 5072 ± 4.693
7000
6500
6000
5500
5000
4500

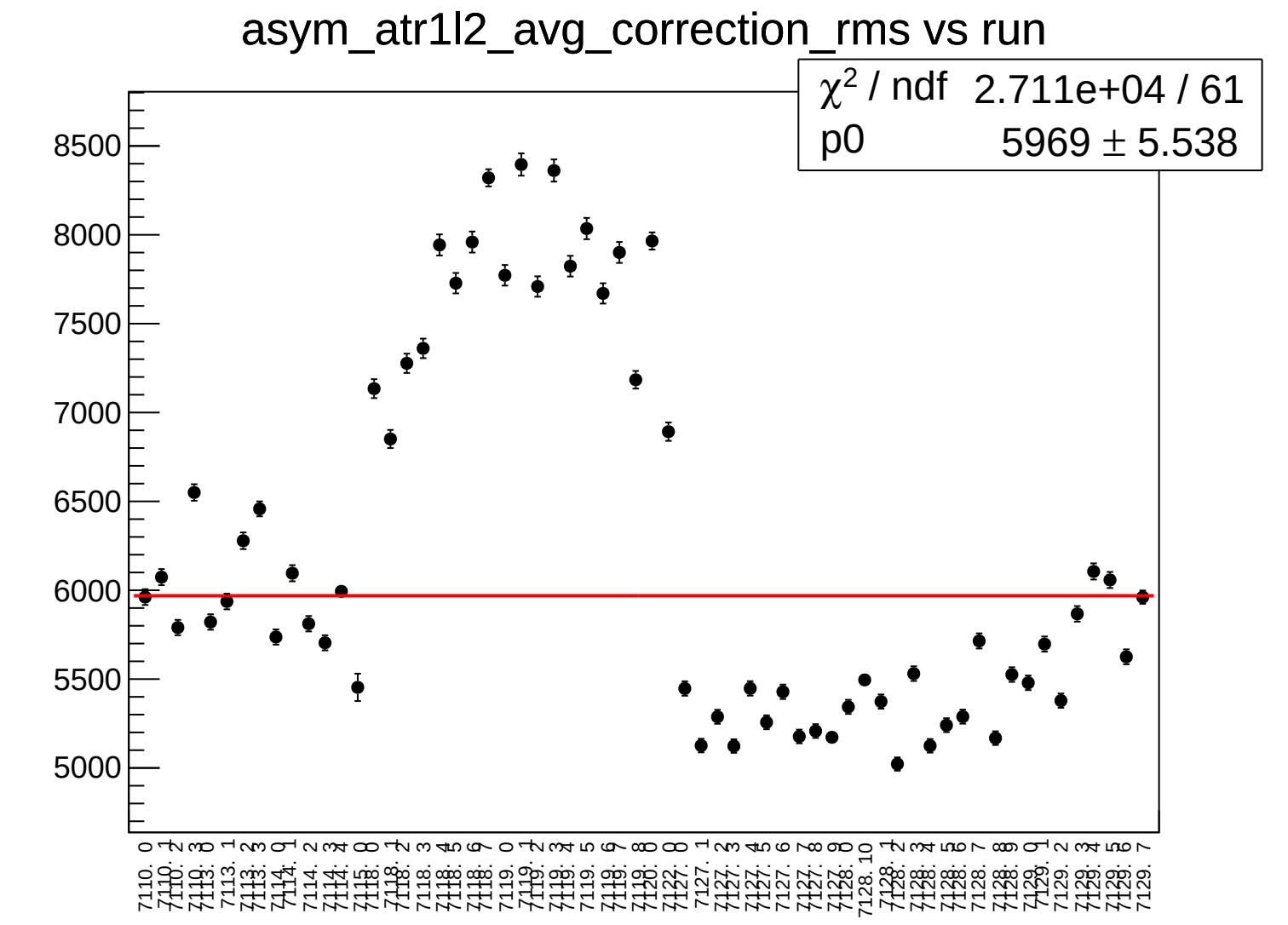

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 65.95 / 61
p0 5853 ± 2531
pull
Entries 62
Mean −140.5
Std Dev 158.8

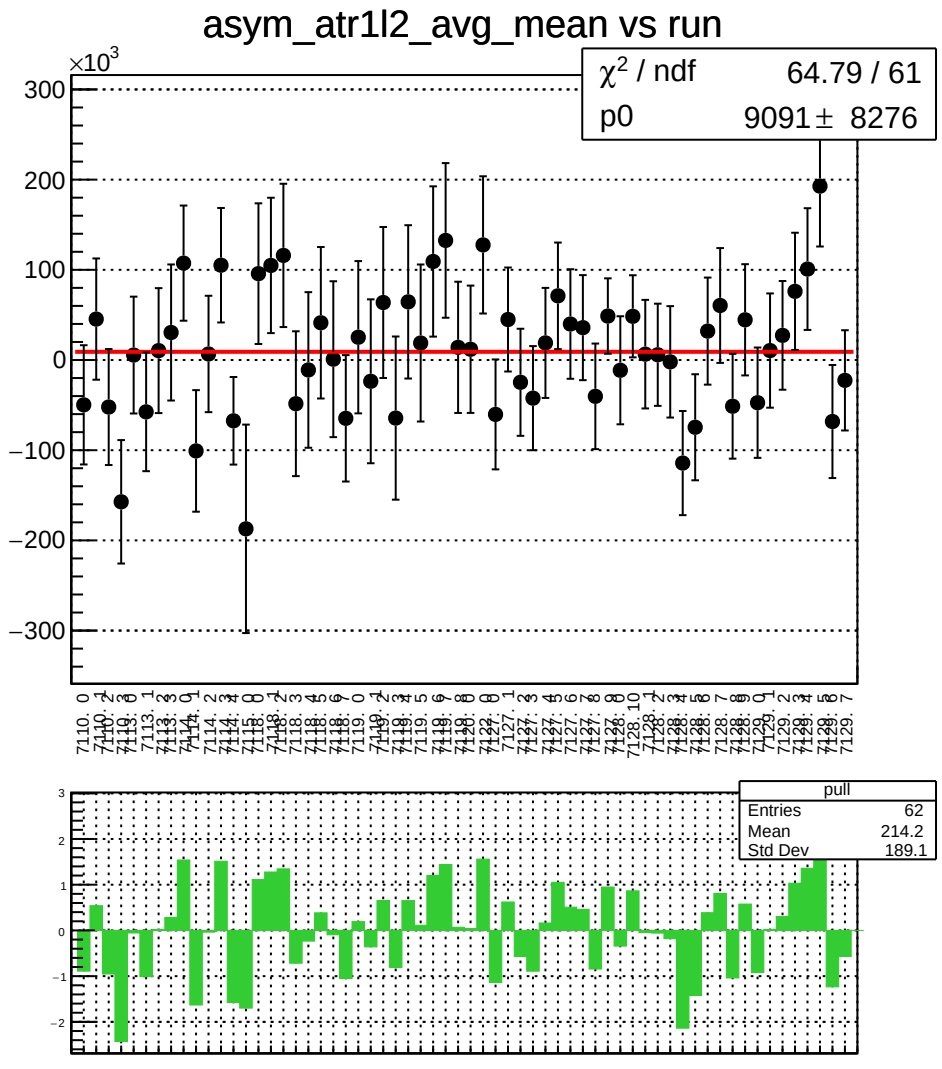

pull1D
Entries 62
Mean −0.01376
Std Dev 1.031

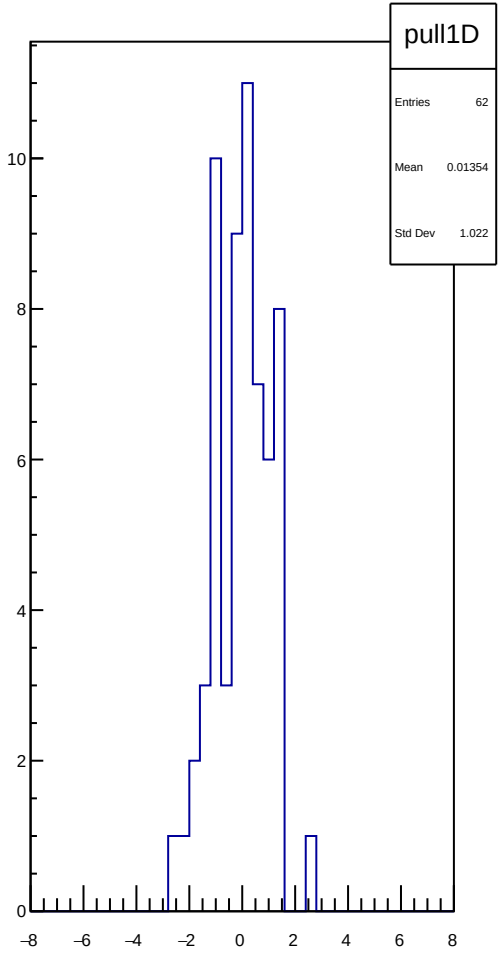

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 8924 / 61
p0 1944 ± 1.79
5000
4500
4000
3500
3000
2500
2000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 8
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

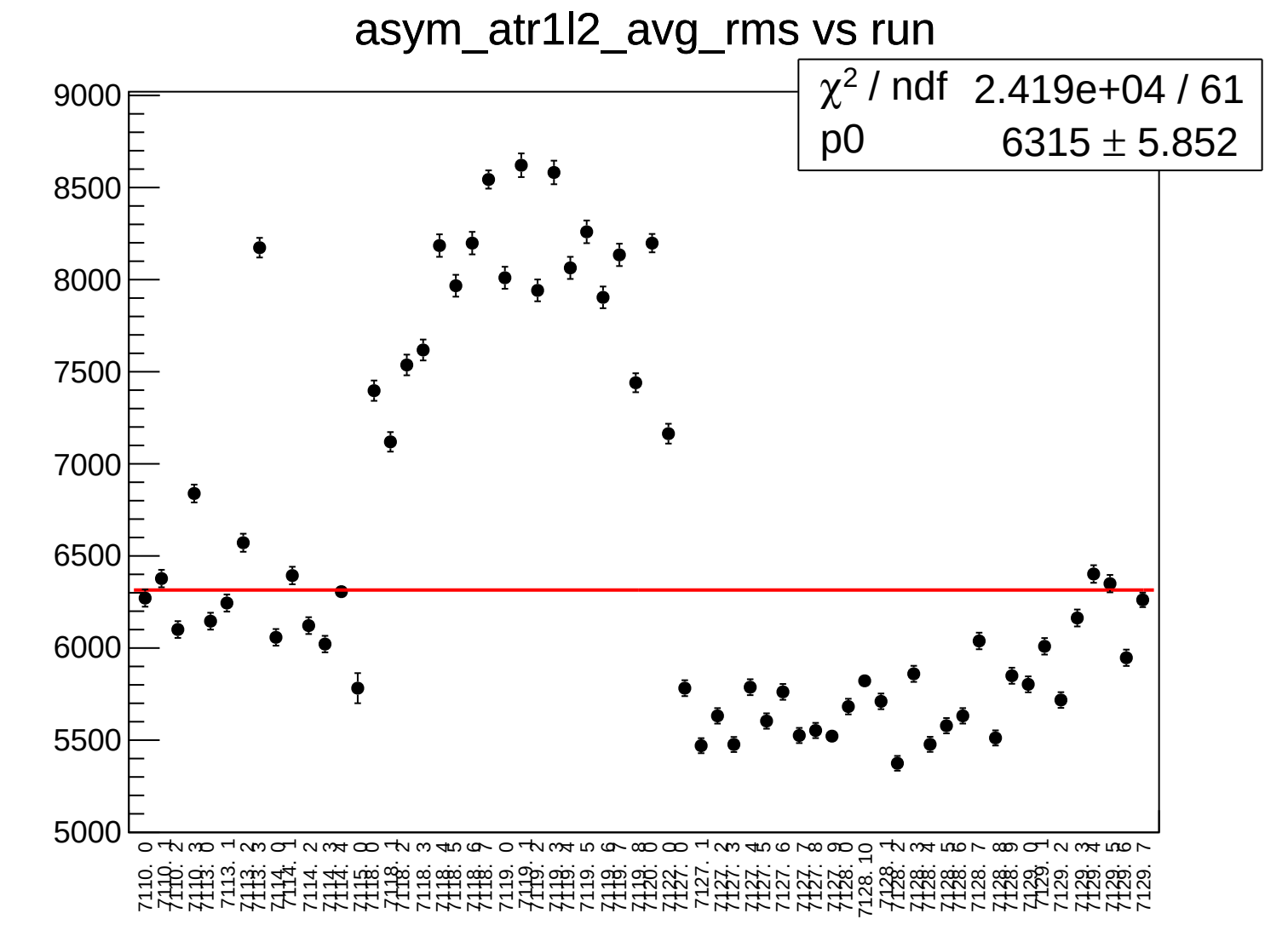

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 61.47 / 61
p0 −4395 ± 7833
300
200
100
0
−100
−200
pull
Entries 62
Mean 184
Std Dev 157.5
2
1
0
−1
−2

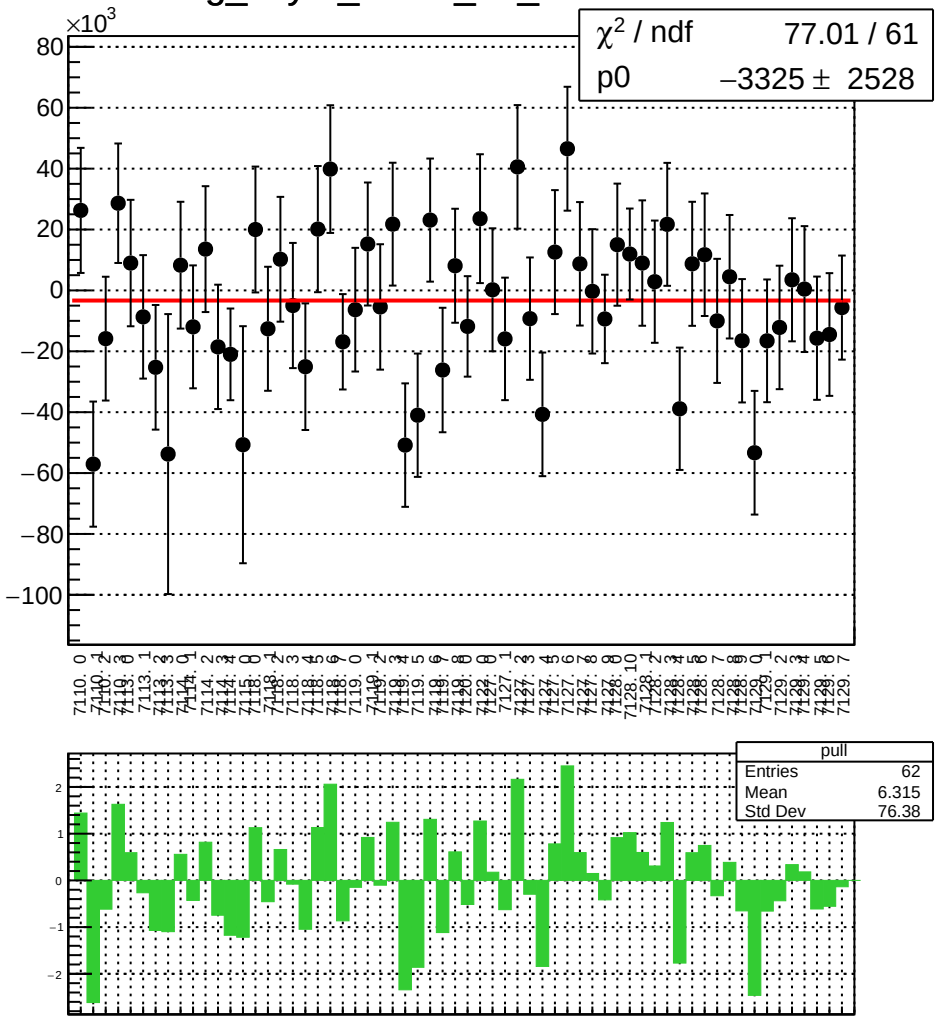

pull1D
Entries 62
Mean −0.01103
Std Dev 0.9957
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

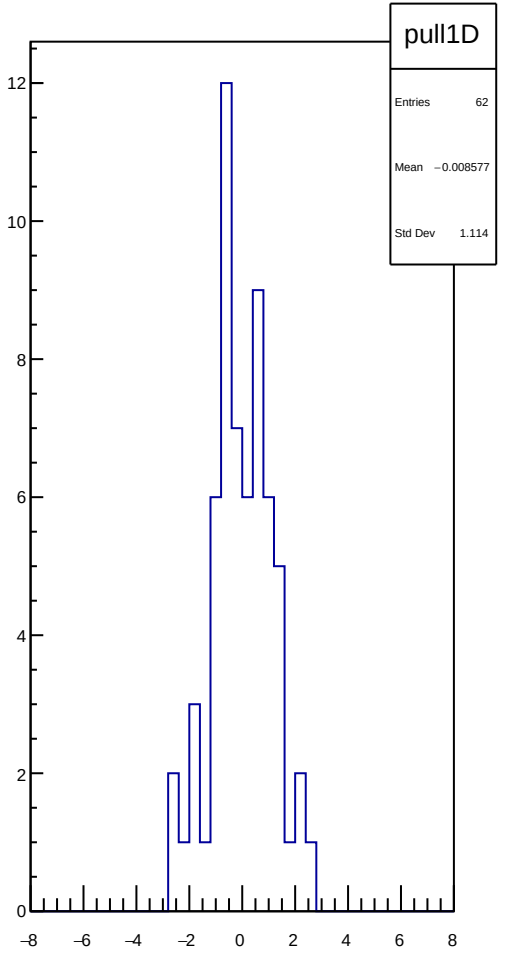

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 2.711e+04 / 61
p0 5969 ± 5.538
8500
8000
7500
7000
6500
6000
5500
5000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

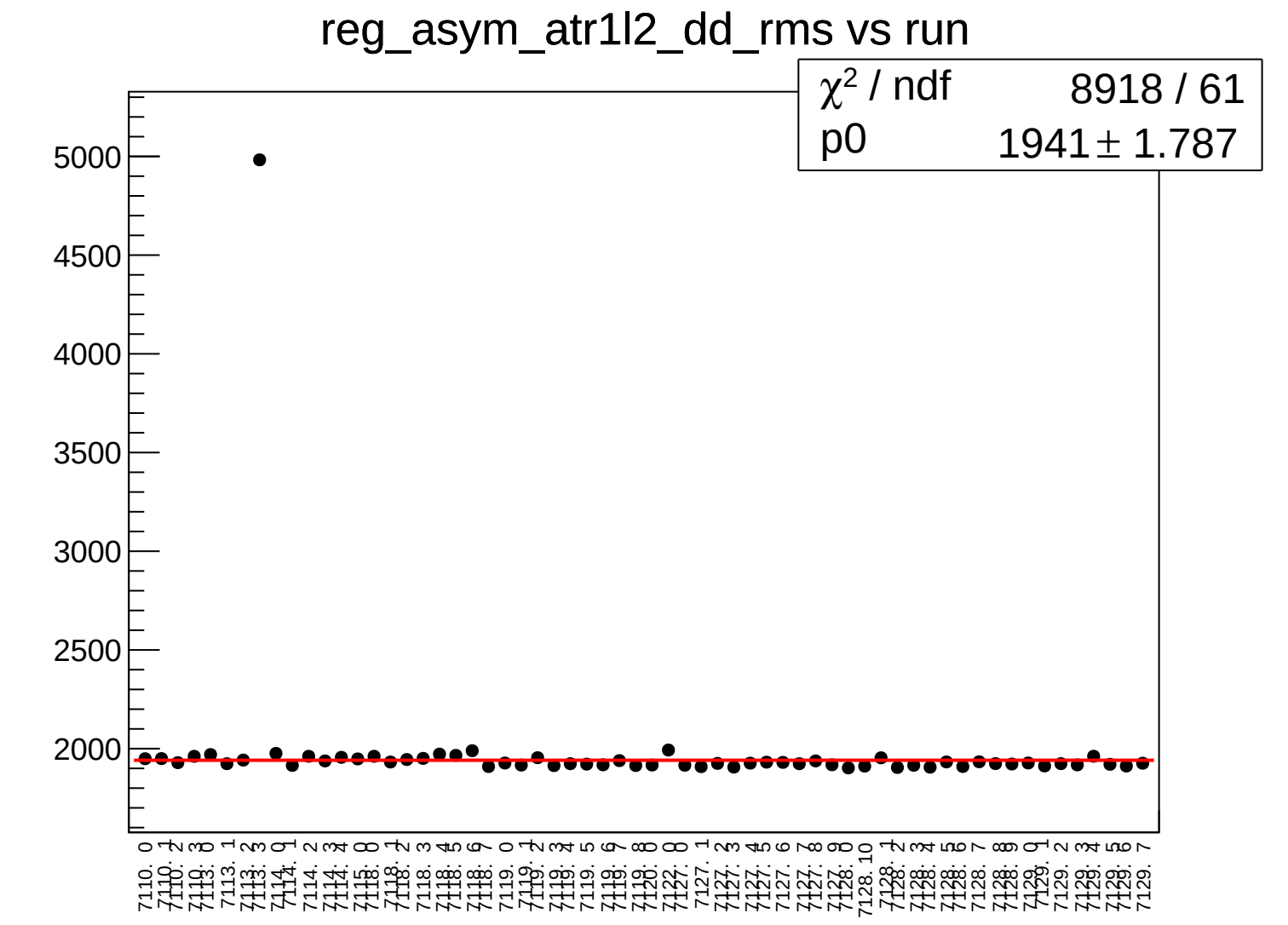

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 64.79 / 61
p0 9091 ± 8276
300
200
100
0
−100
−200
−300
pull
Entries 62
Mean 214.2
Std Dev 189.1
3
2
1
0
−1
−2

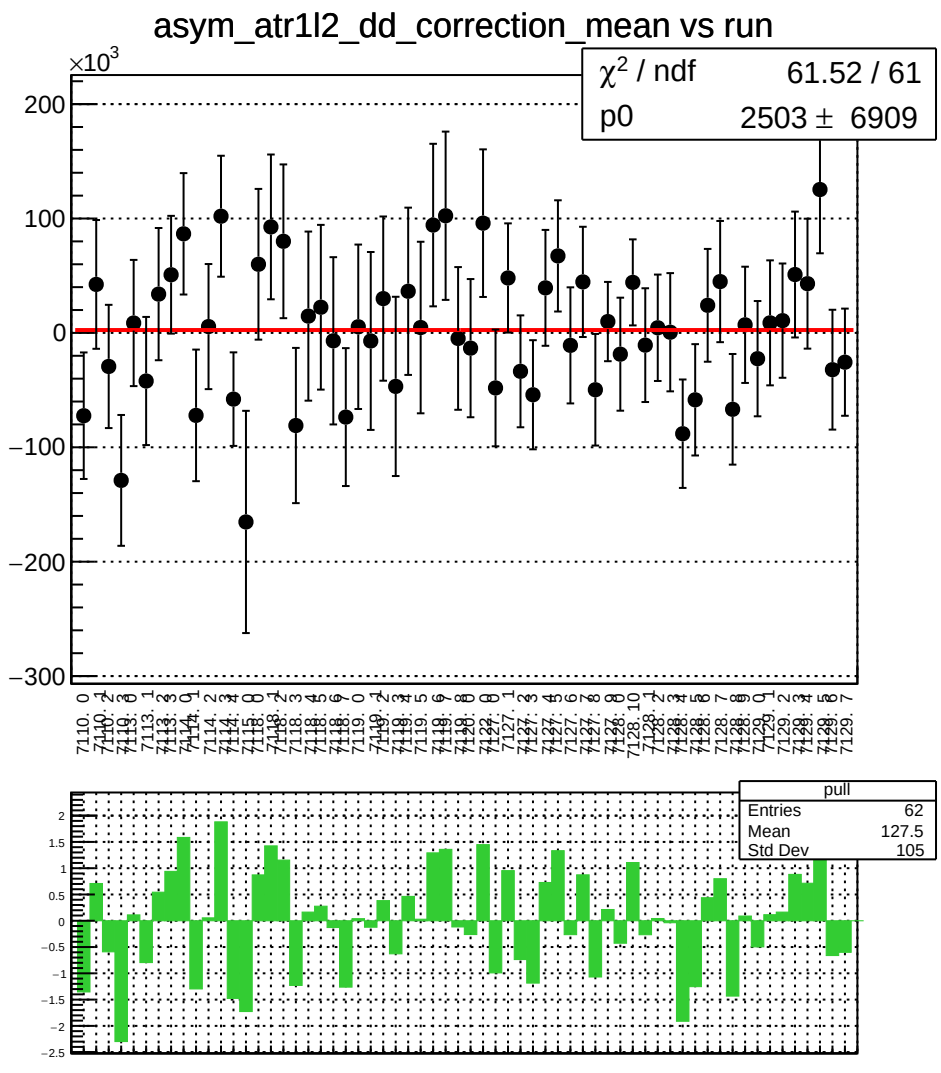

pull1D
Entries 62
Mean 0.01354
Std Dev 1.022
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

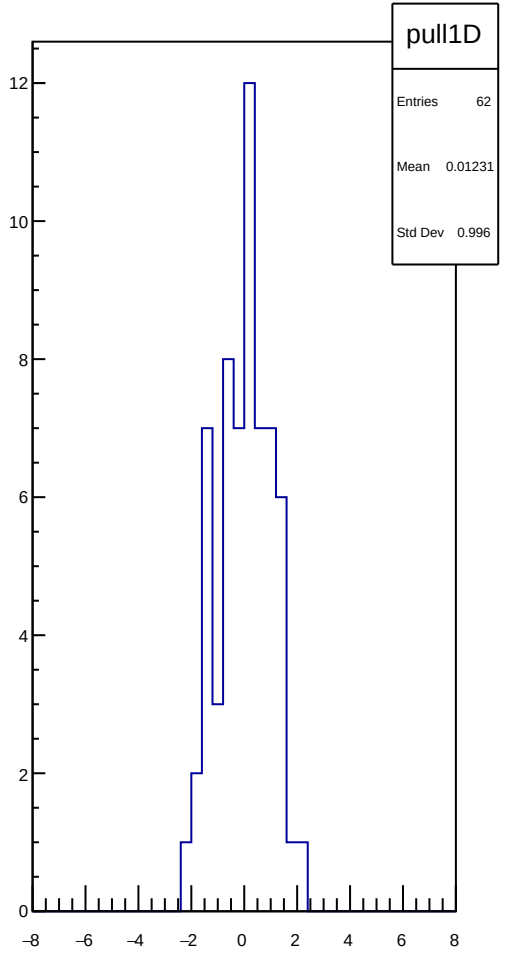

asym_atr1l2_avg_rms vs run
χ² / ndf 2.419e+04 / 61
p0 6315 ± 5.852
9000
8500
8000
7500
7000
6500
6000
5500
5000

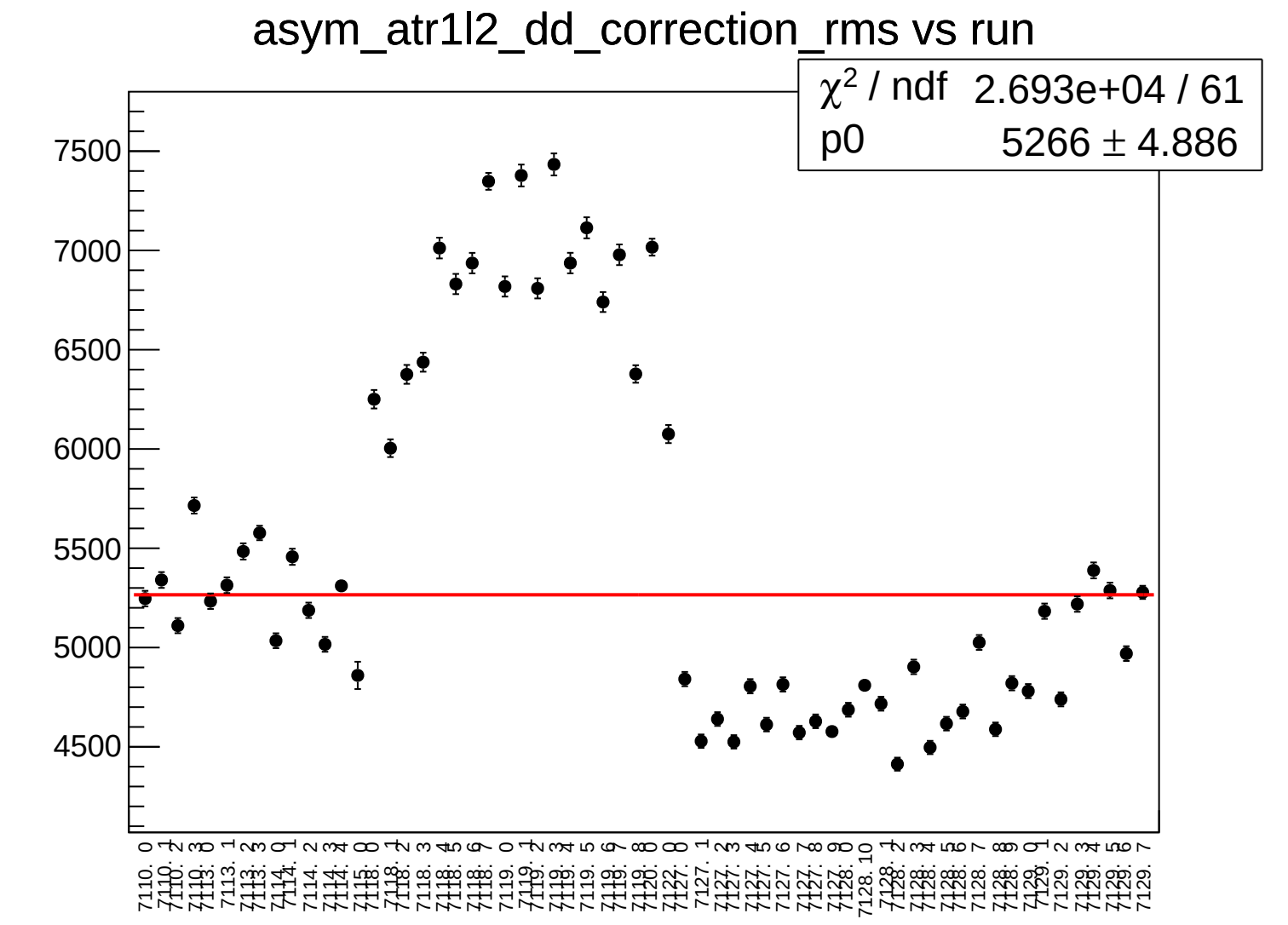

reg_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 77.01 / 61
p0 −3325 ± 2528
pull
Entries 62
Mean 6.315
Std Dev 76.38

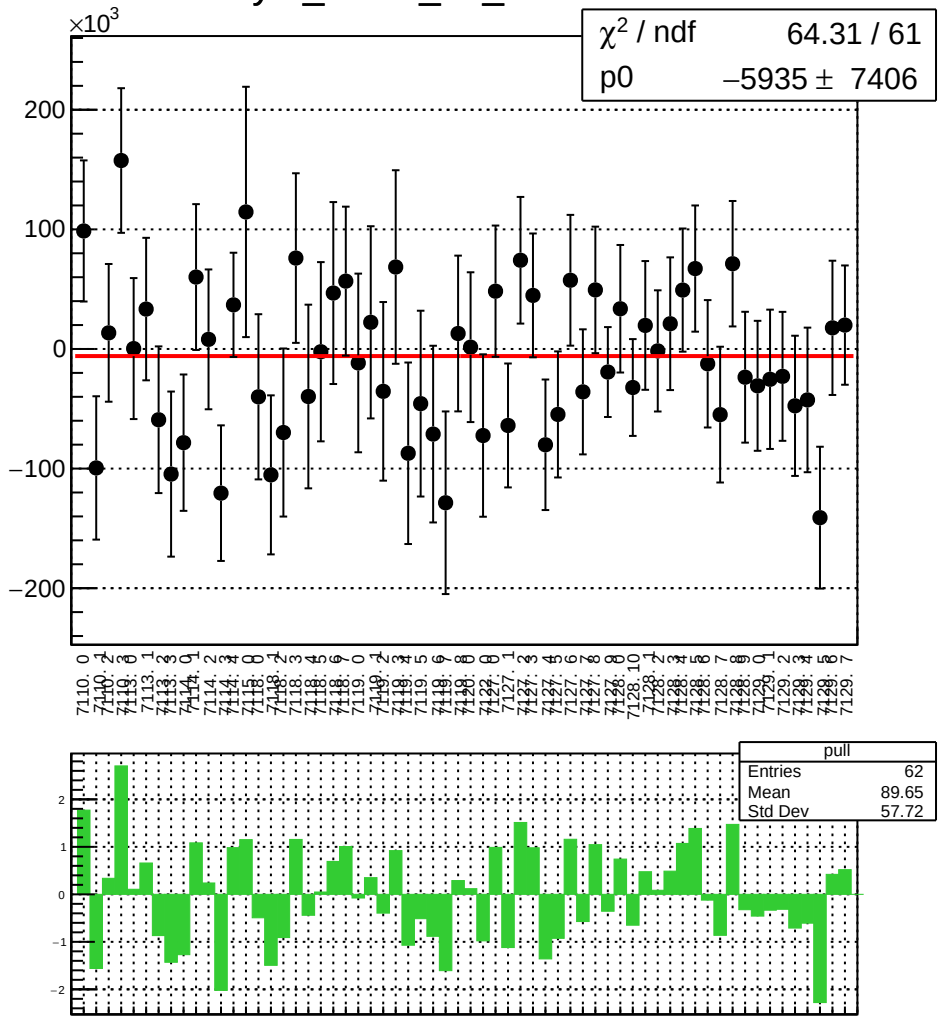

pull1D
Entries 62
Mean −0.008577
Std Dev 1.114

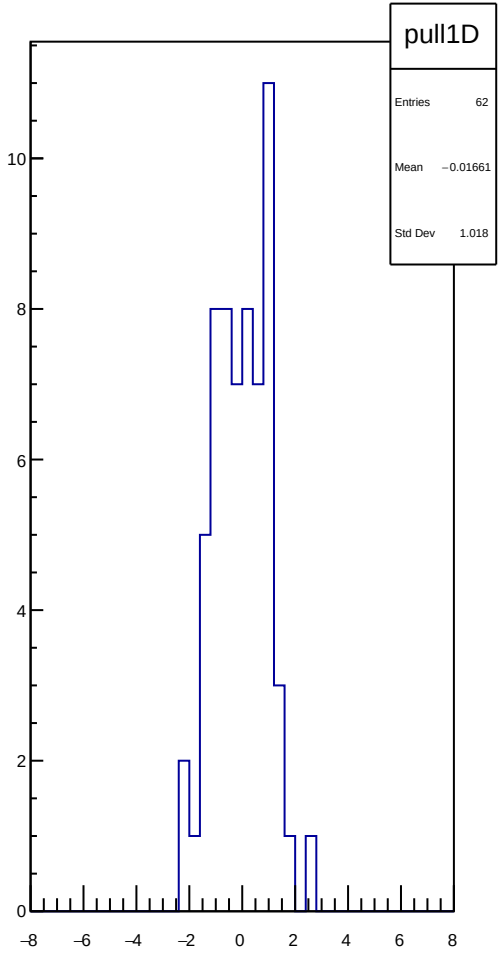

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 8918 / 61
p0 1941 ± 1.787
5000
4500
4000
3500
3000
2500
2000

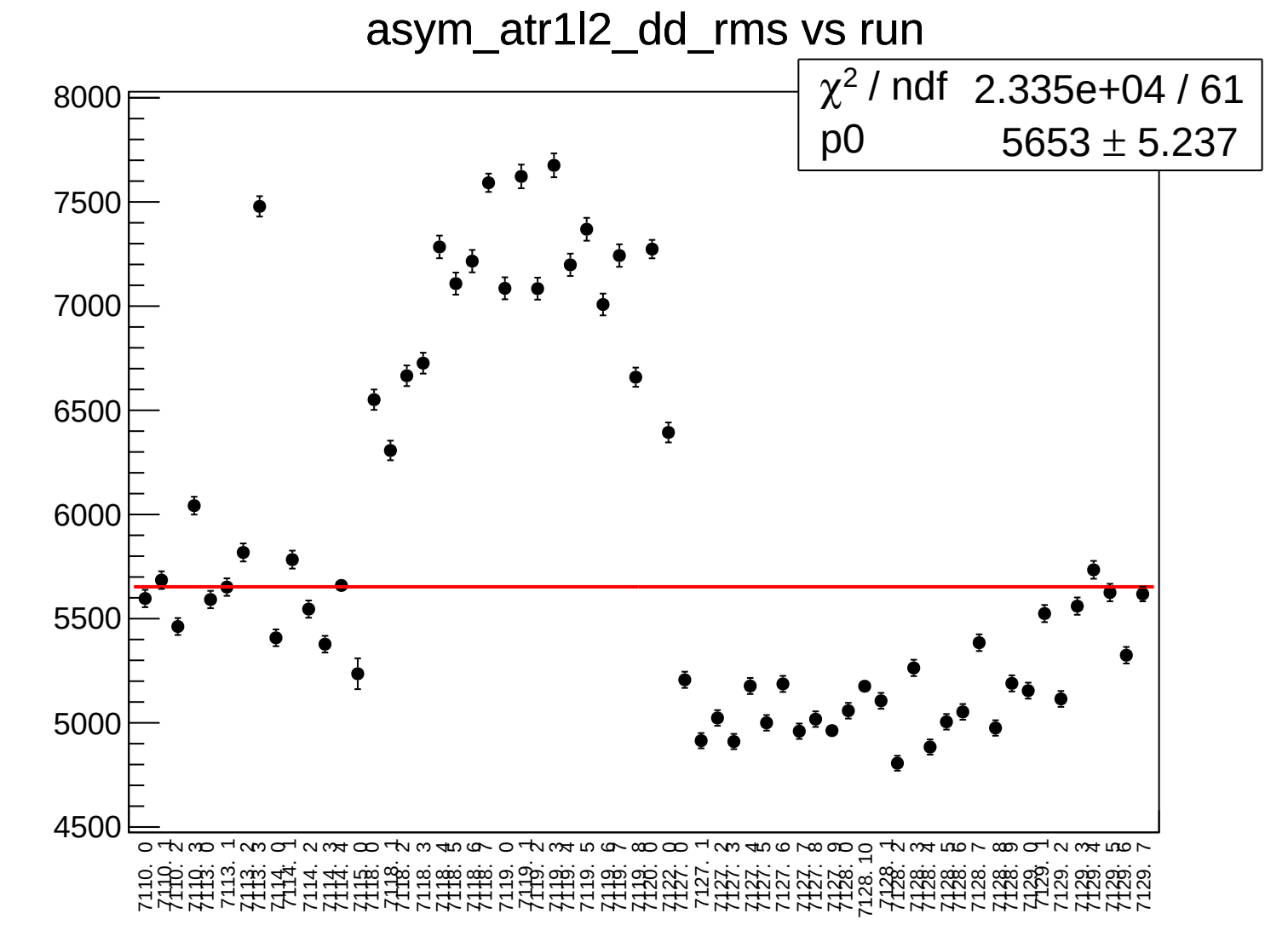

asym_atr1l2_dd_correction_mean vs run
×10^3
χ^2 / ndf 61.52 / 61
p0 2503 ± 6909
200
100
0
−100
−200
−300
pull
Entries 62
Mean 127.5
Std Dev 105
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

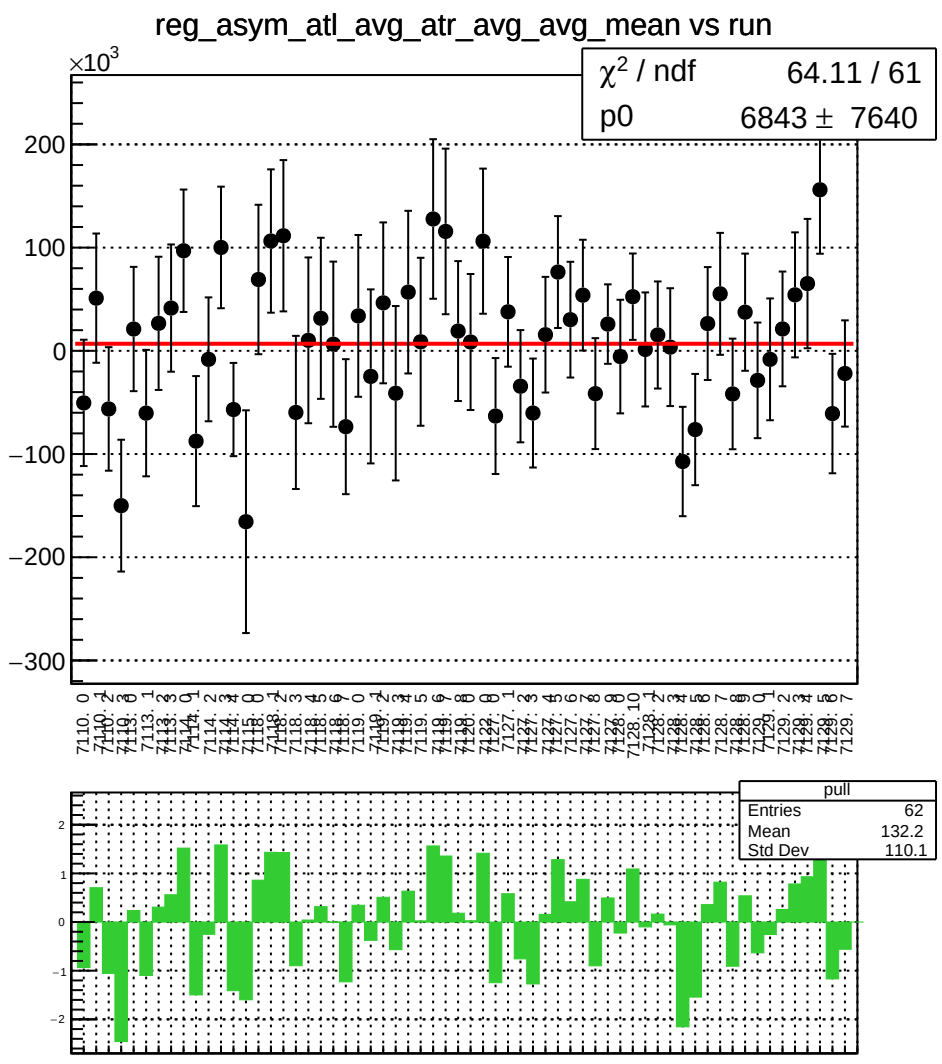

pull1D
Entries 62
Mean 0.01231
Std Dev 0.996
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

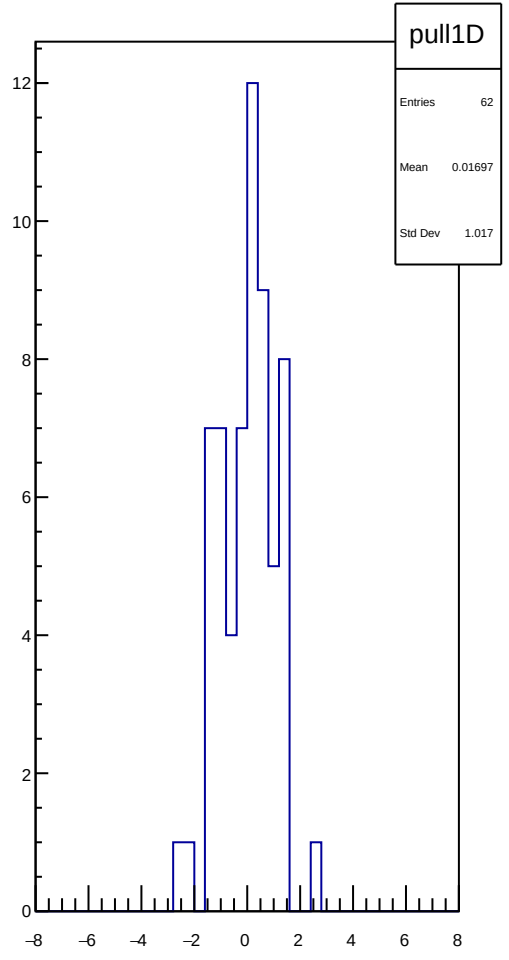

asym_atr1l2_dd_correction_rms vs run
χ^2 / ndf 2.693e+04 / 61
p0 5266 ± 4.886
7500
7000
6500
6000
5500
5000
4500

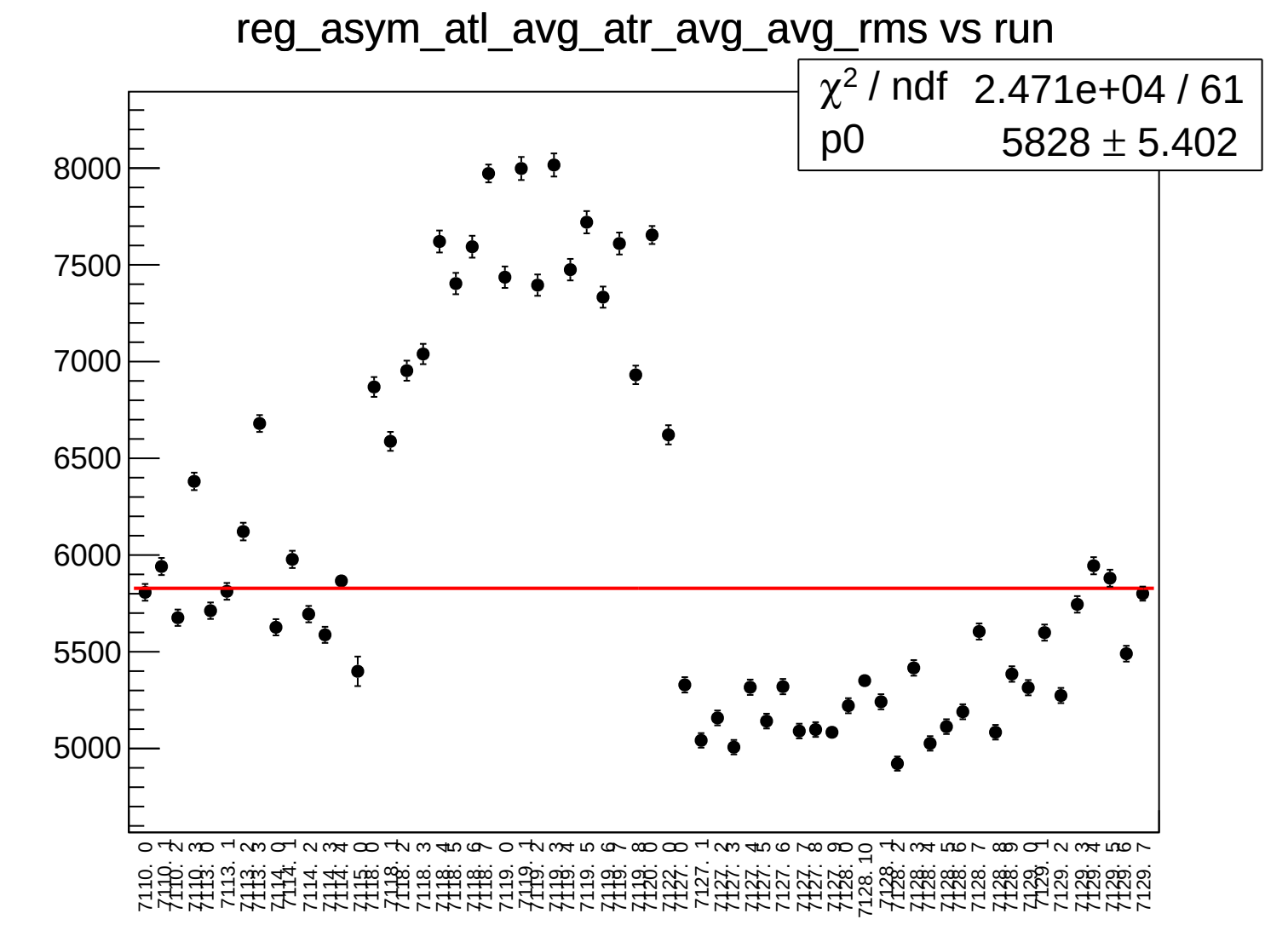

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 64.31 / 61
p0 −5935 ± 7406
200
100
0
−100
−200
pull
Entries 62
Mean 89.65
Std Dev 57.72
2
1
0
−1
−2

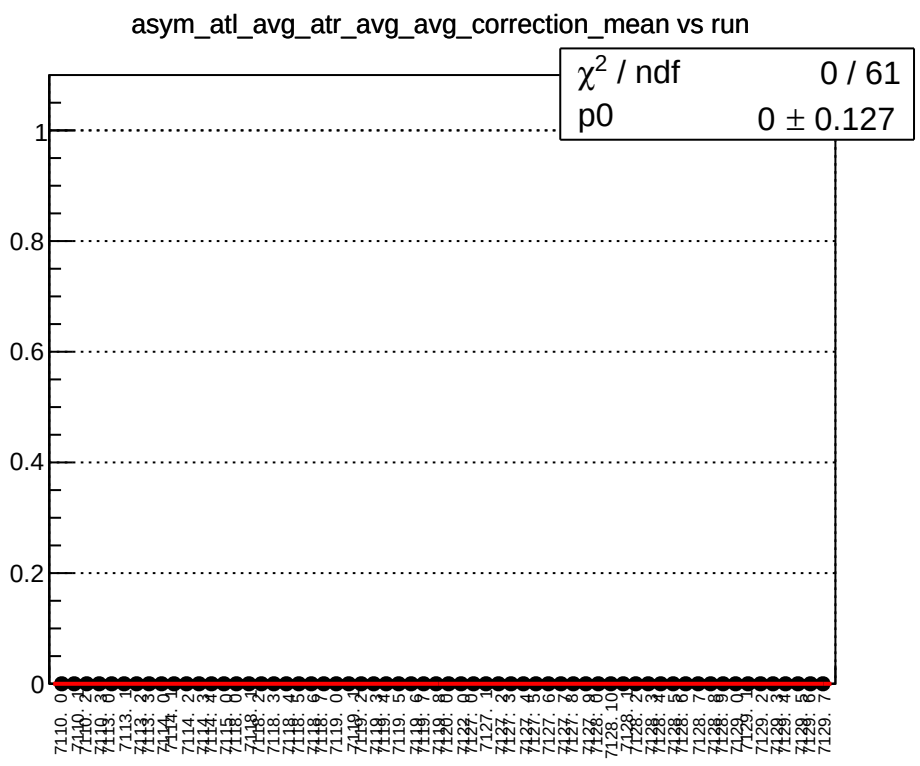

pull1D
Entries 62
Mean −0.01661
Std Dev 1.018
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

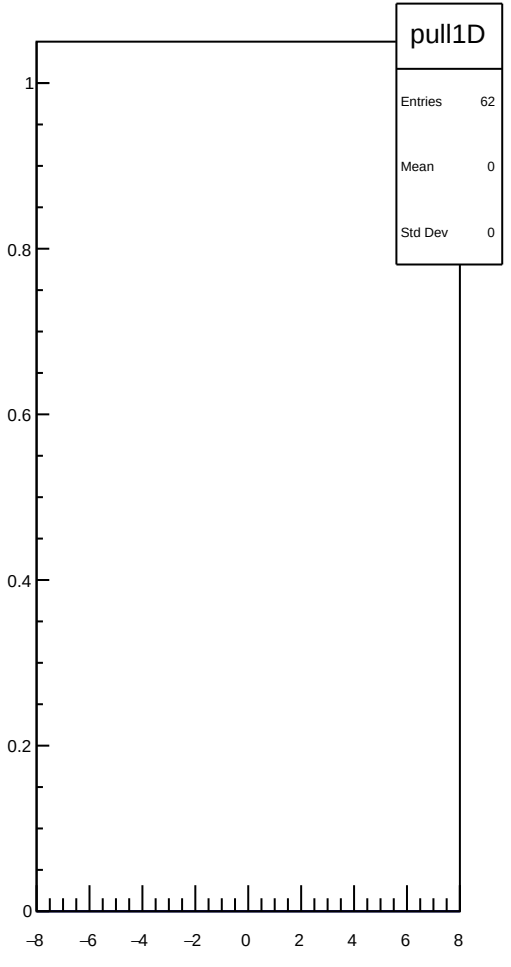

asym_atr1l2_dd_rms vs run
χ² / ndf 2.335e+04 / 61
p0 5653 ± 5.237
8000
7500
7000
6500
6000
5500
5000
4500
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

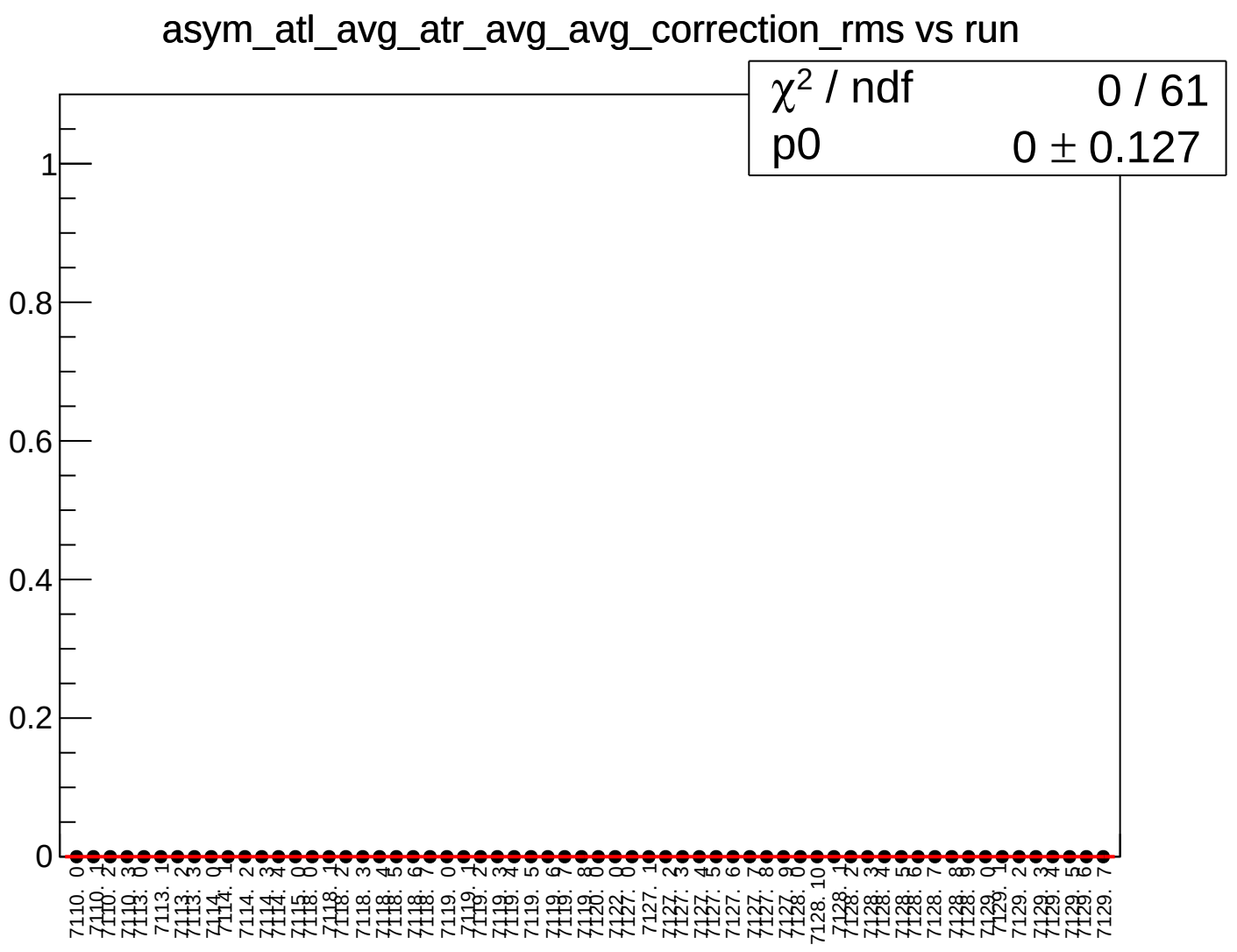

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 64.11 / 61
p0 6843 ± 7640
200
100
0
−100
−200
−300
pull
Entries 62
Mean 132.2
Std Dev 110.1
2
1
0
−1
−2

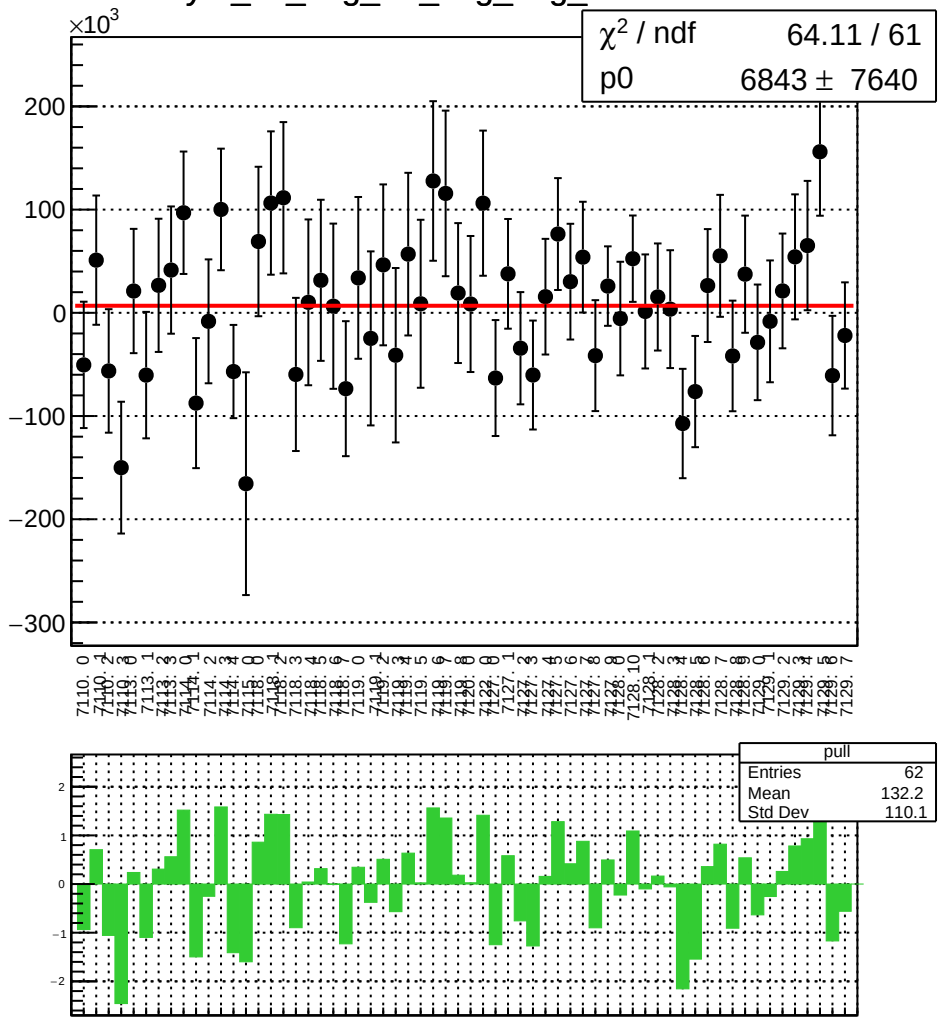

pull1D
Entries 62
Mean 0.01697
Std Dev 1.017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

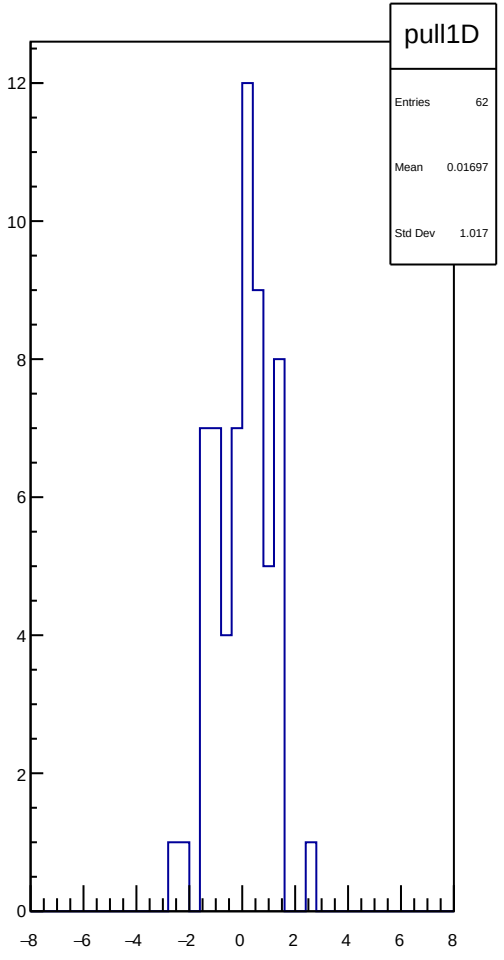

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2.471e+04 / 61
p0 5828 ± 5.402
8000
7500
7000
6500
6000
5500
5000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 8
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

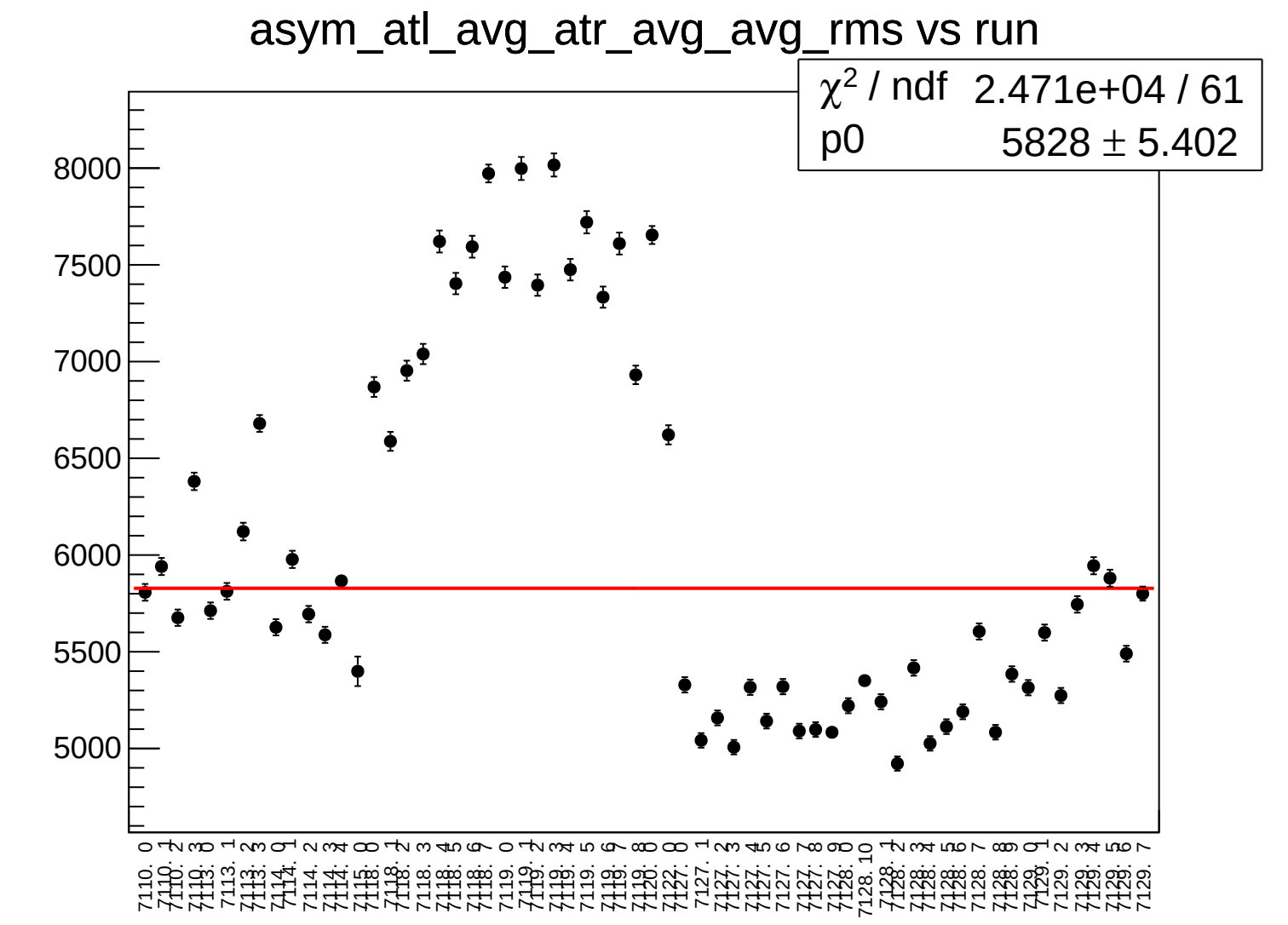

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

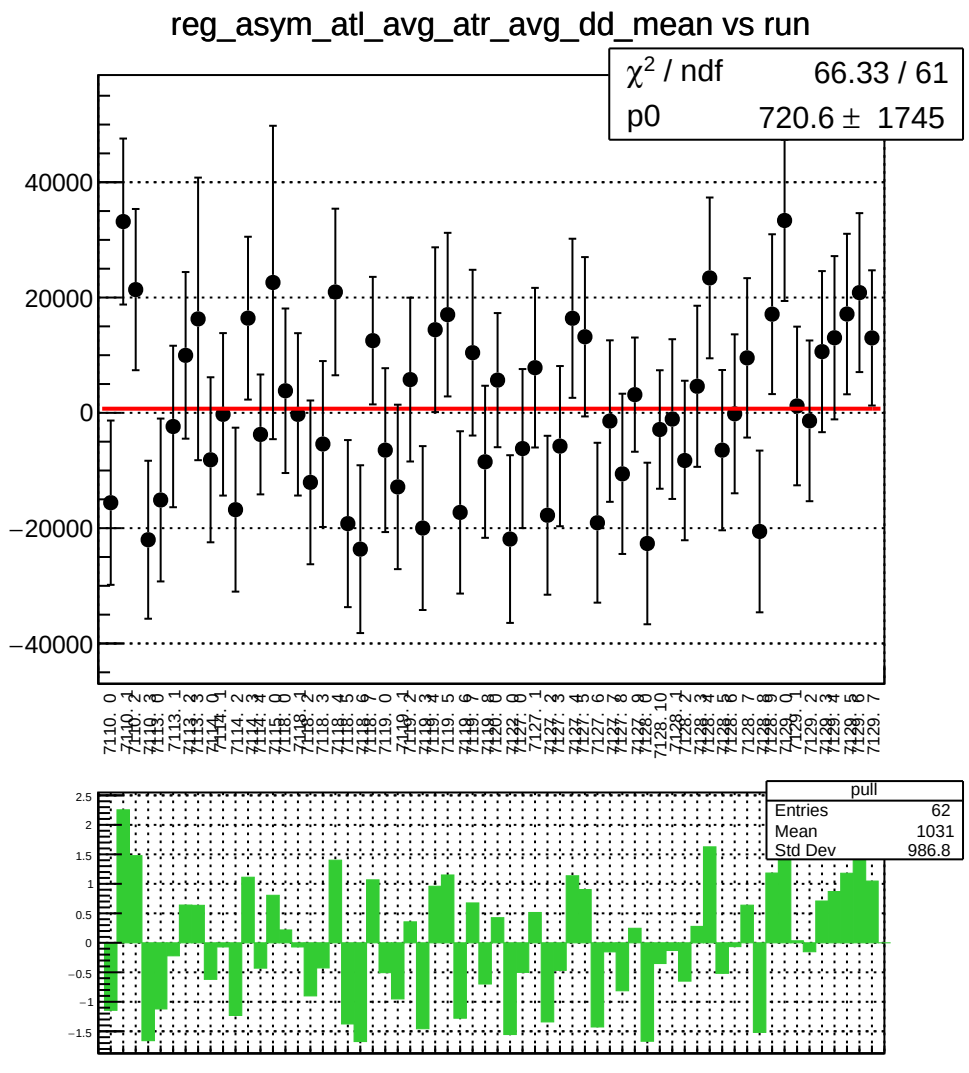

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

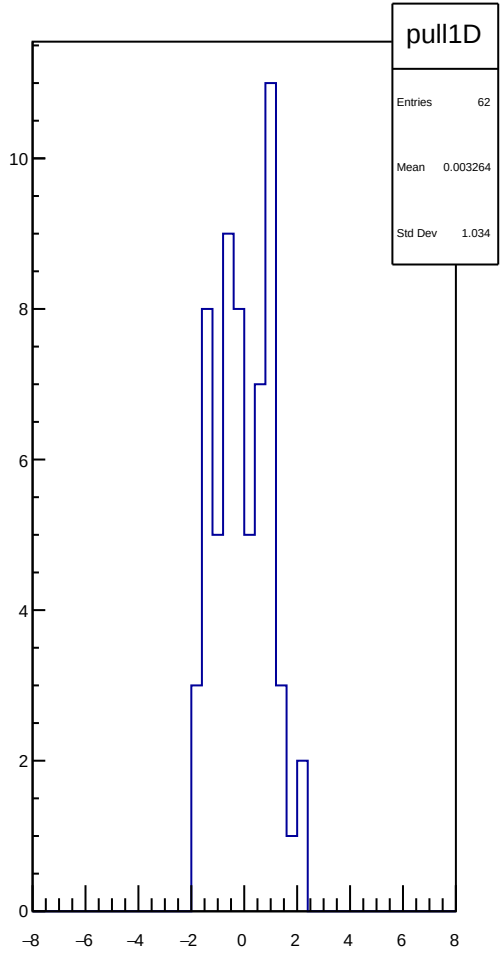

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7115. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 8
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

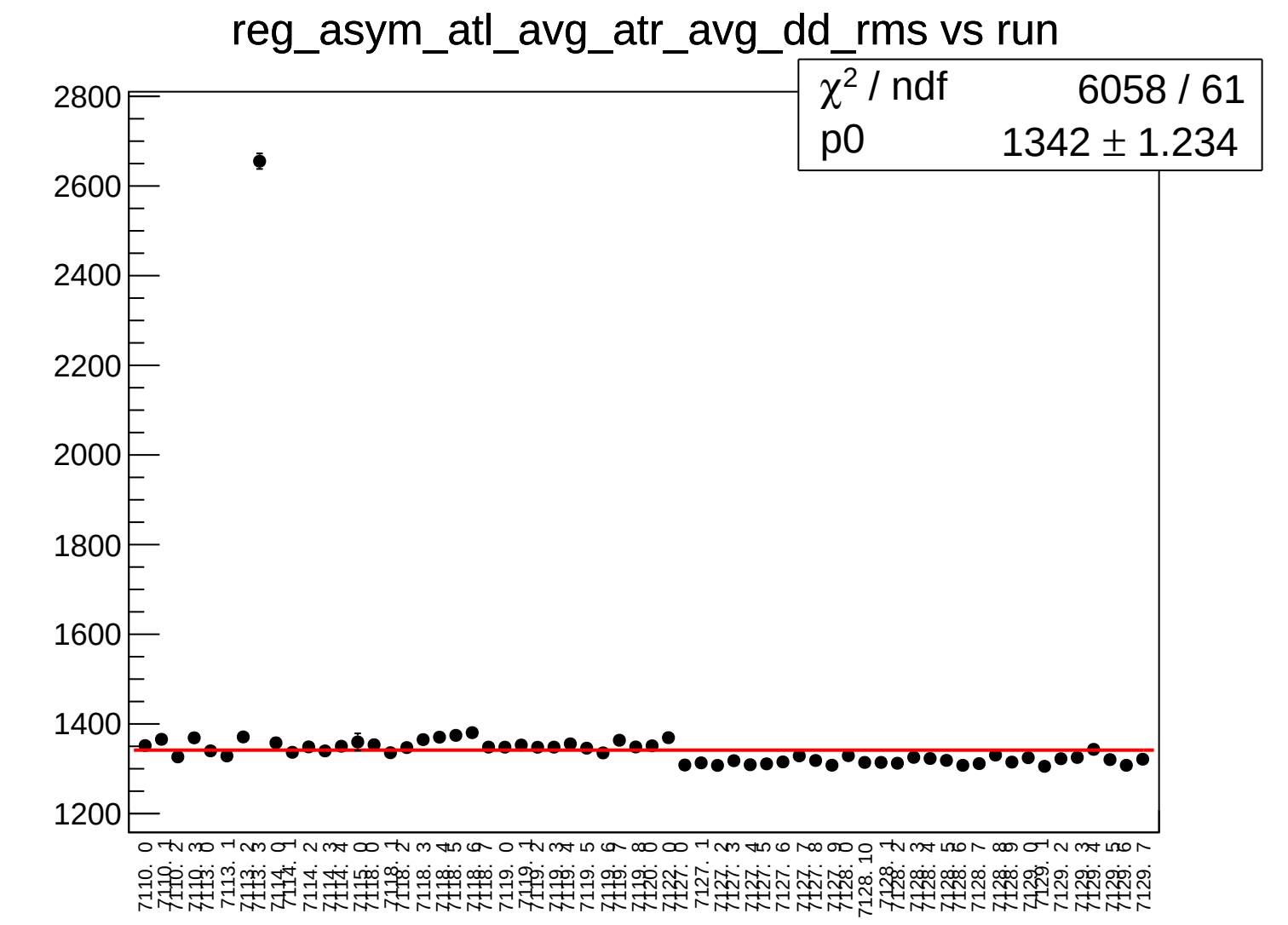

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 64.11 / 61
p0 6843 ± 7640
pull
Entries 62
Mean 132.2
Std Dev 110.1

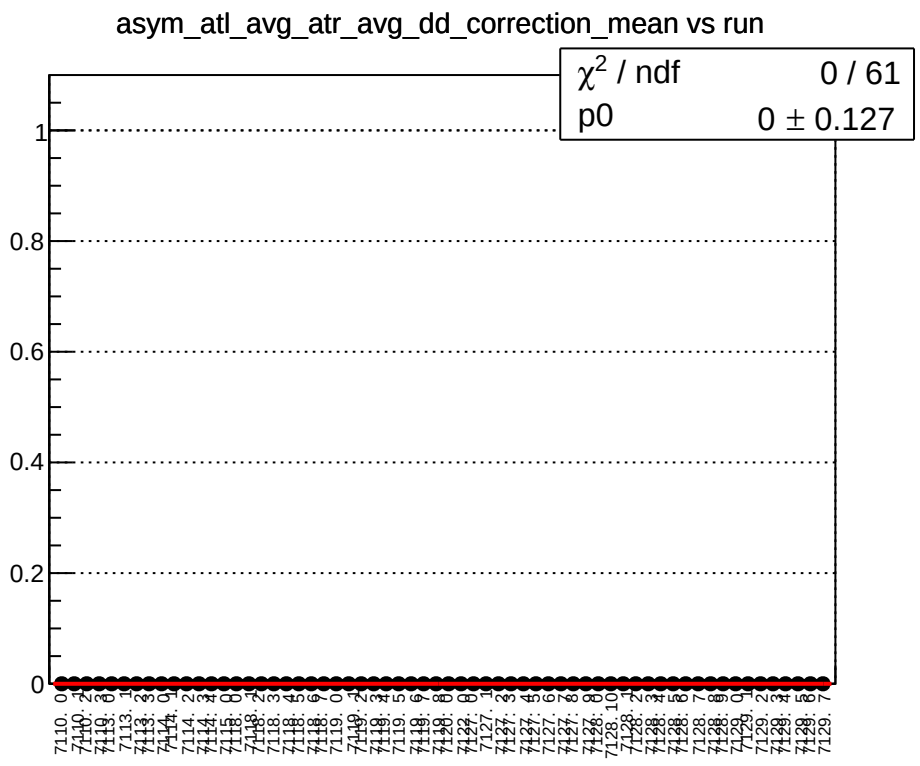

pull1D
Entries 62
Mean 0.01697
Std Dev 1.017

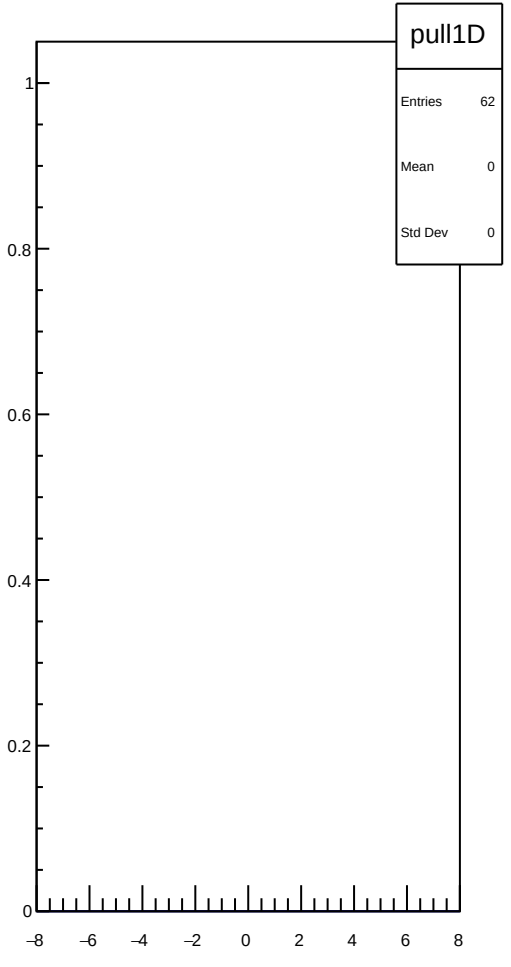

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2.471e+04 / 61
p0 5828 ± 5.402
8000
7500
7000
6500
6000
5500
5000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

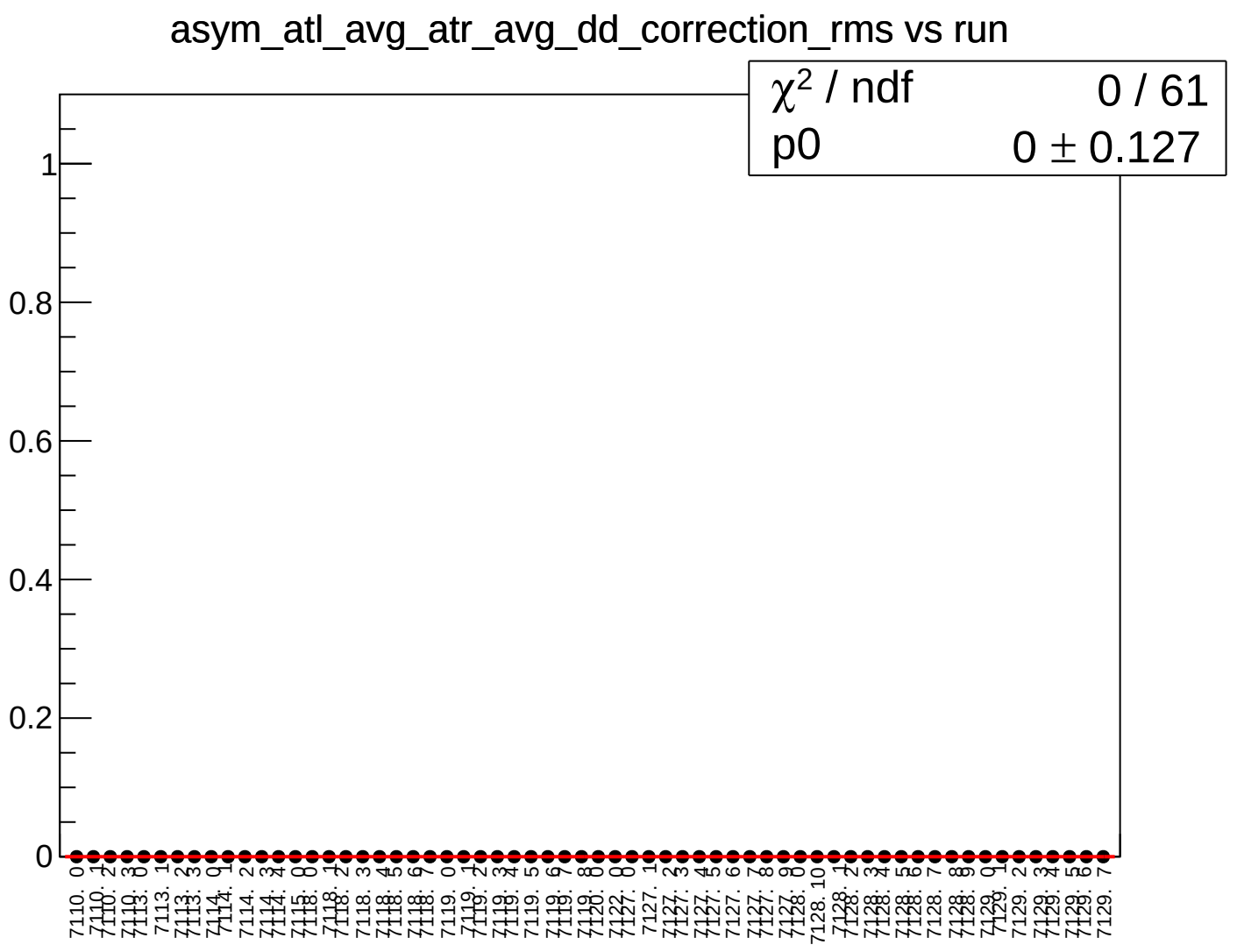

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 66.33 / 61
p0 720.6 ± 1745
40000
20000
0
−20000
−40000
pull
Entries 62
Mean 1031
Std Dev 986.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

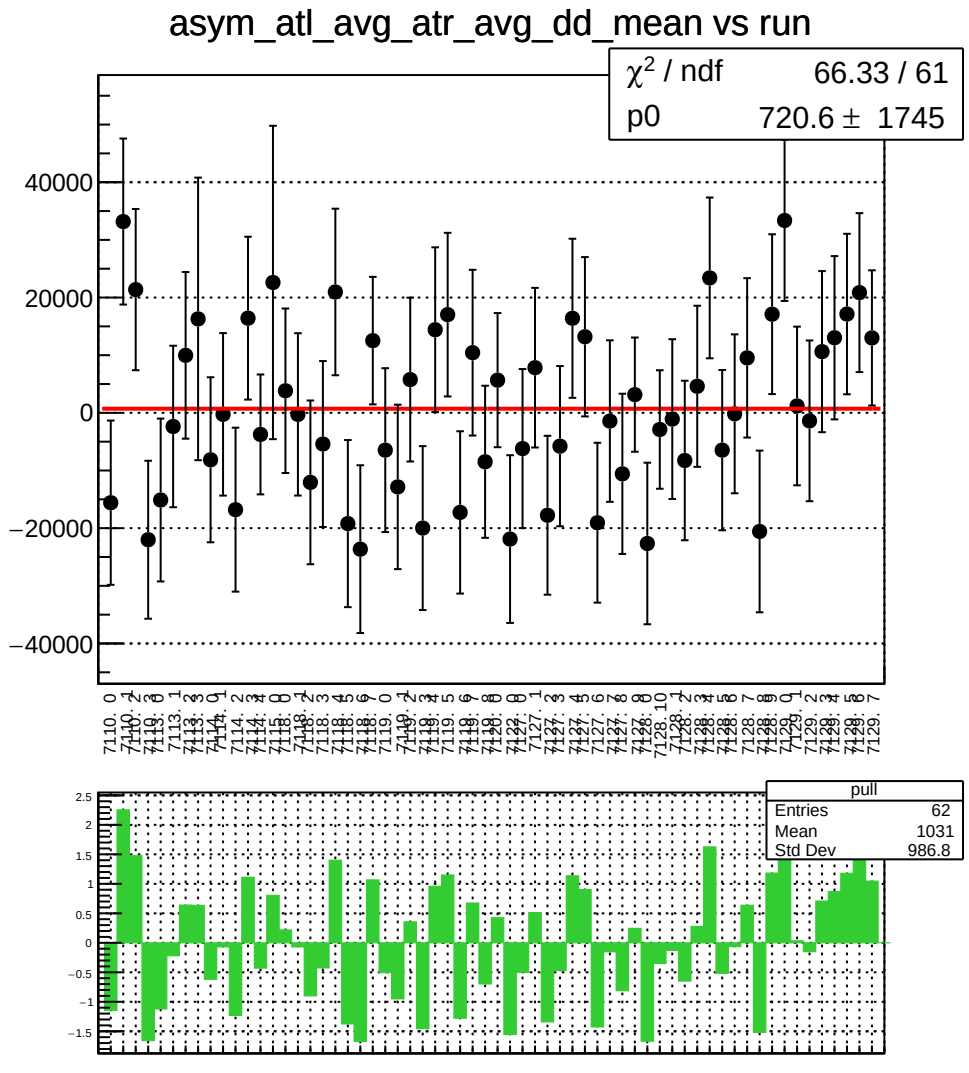

pull1D
Entries 62
Mean 0.003264
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

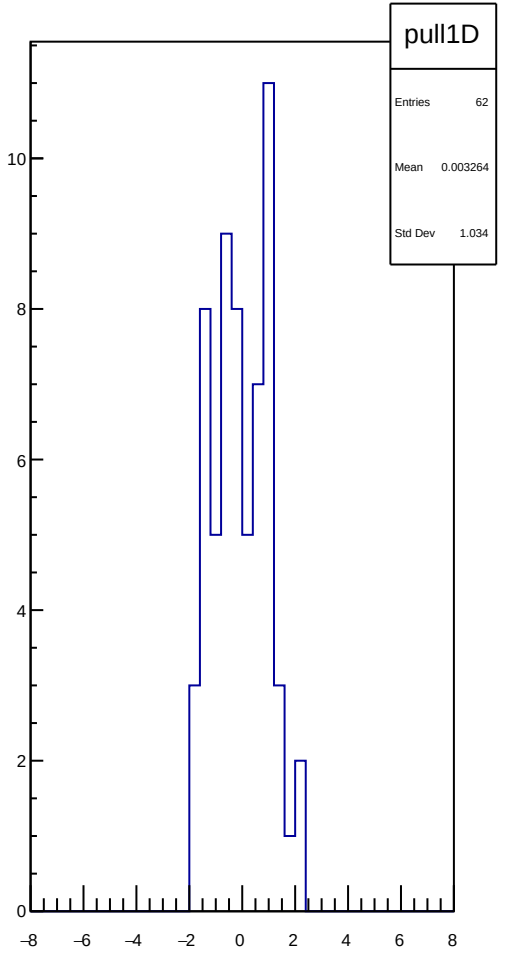

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ^2 / ndf 6058 / 61
p0 1342 ± 1.234
2800
2600
2400
2200
2000
1800
1600
1400
1200

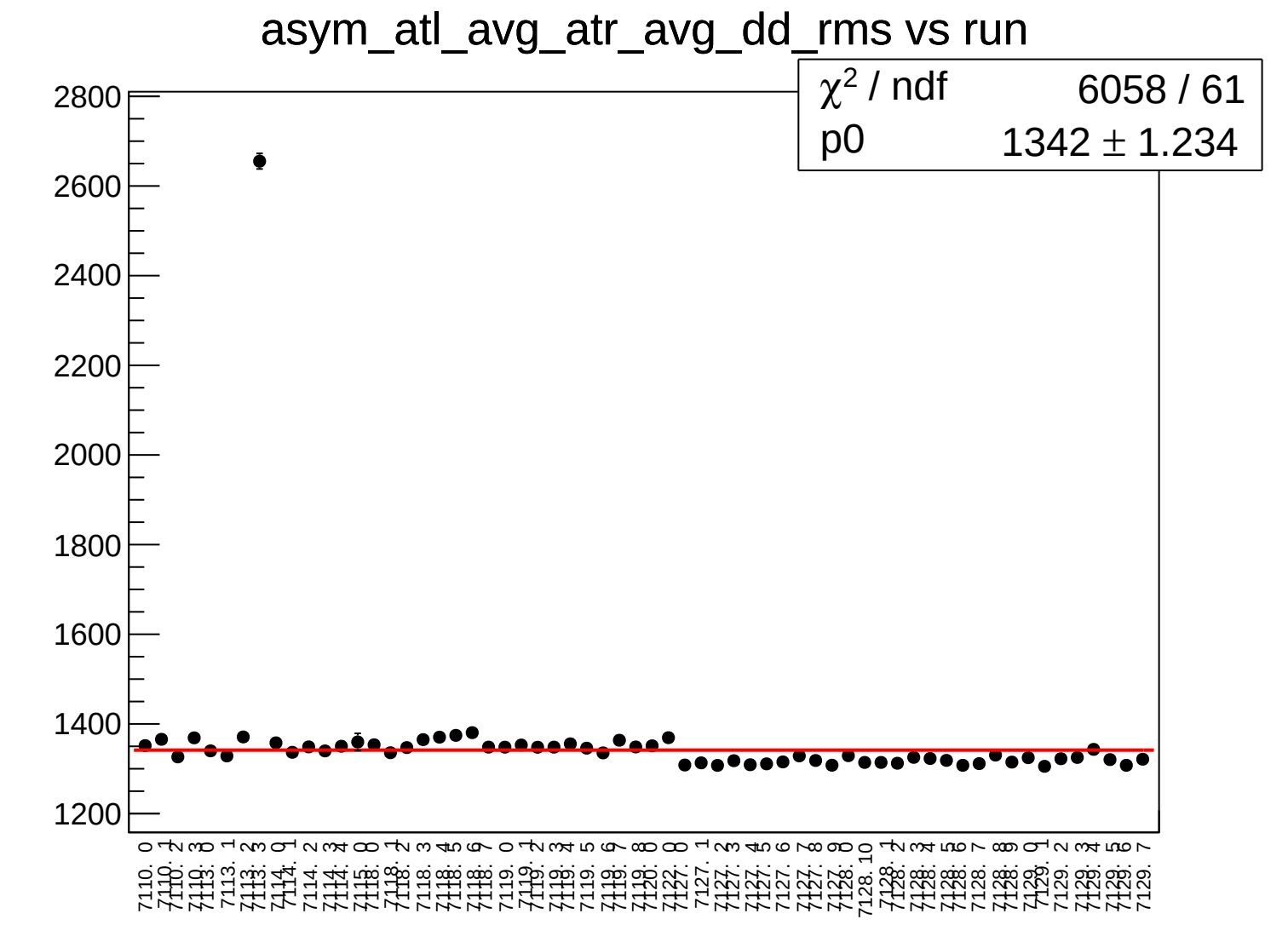

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

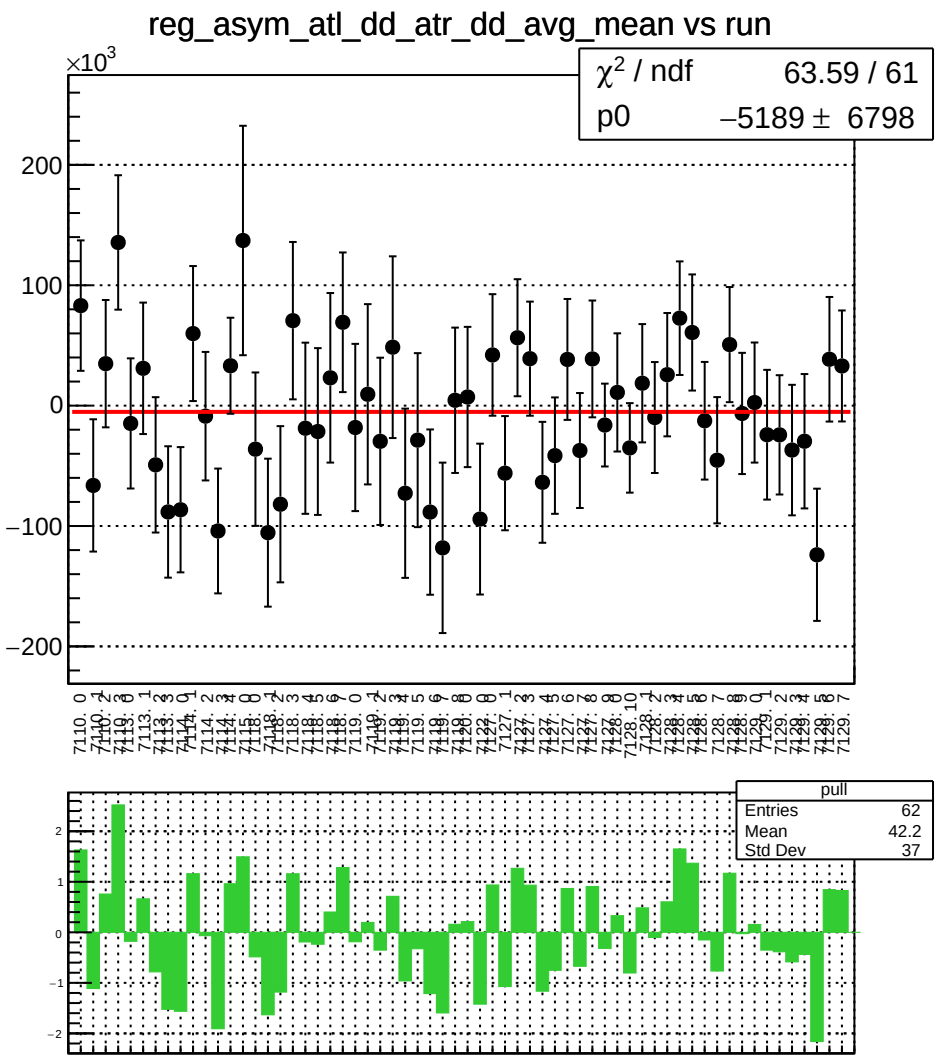

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

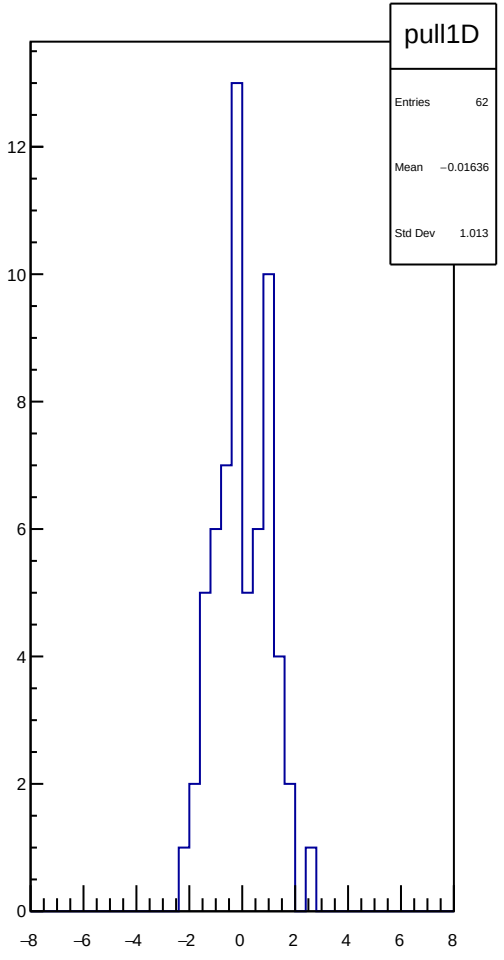

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7115. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

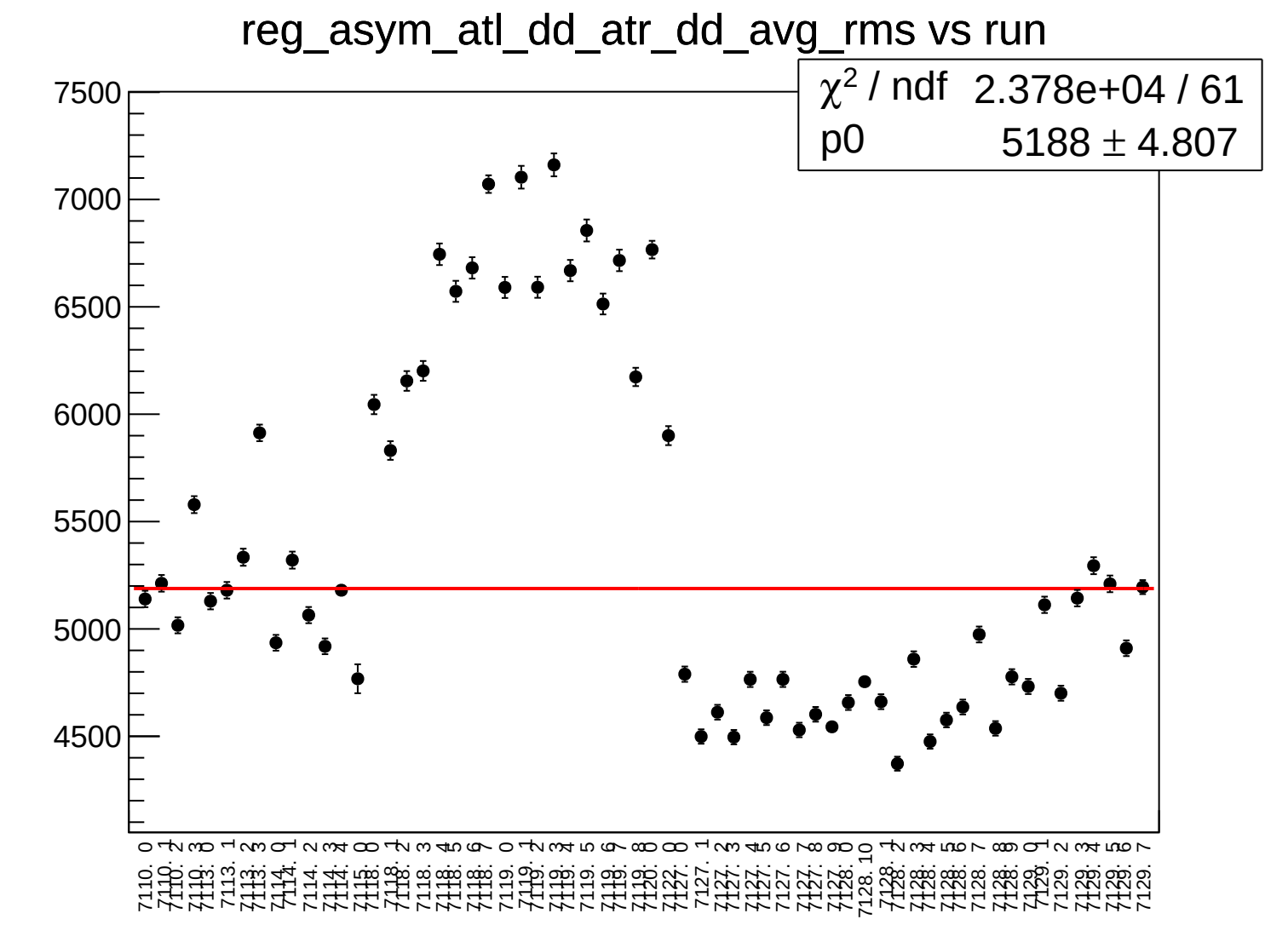

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 66.33 / 61
p0 720.6 ± 1745
40000
20000
0
−20000
−40000
pull
Entries 62
Mean 1031
Std Dev 986.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

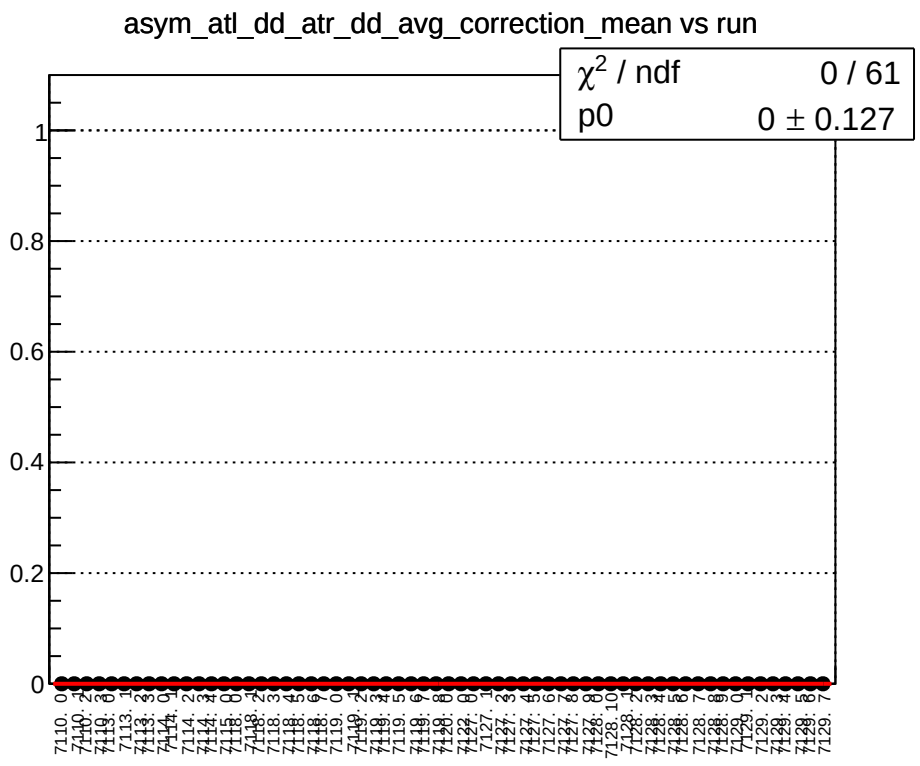

pull1D
Entries 62
Mean 0.003264
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

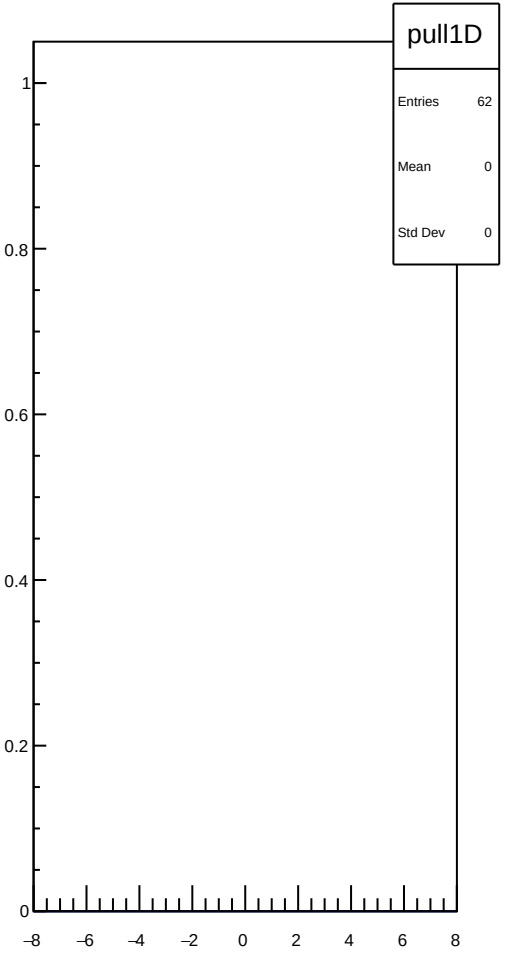

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 6058 / 61
p0 1342 ± 1.234
2800
2600
2400
2200
2000
1800
1600
1400
1200

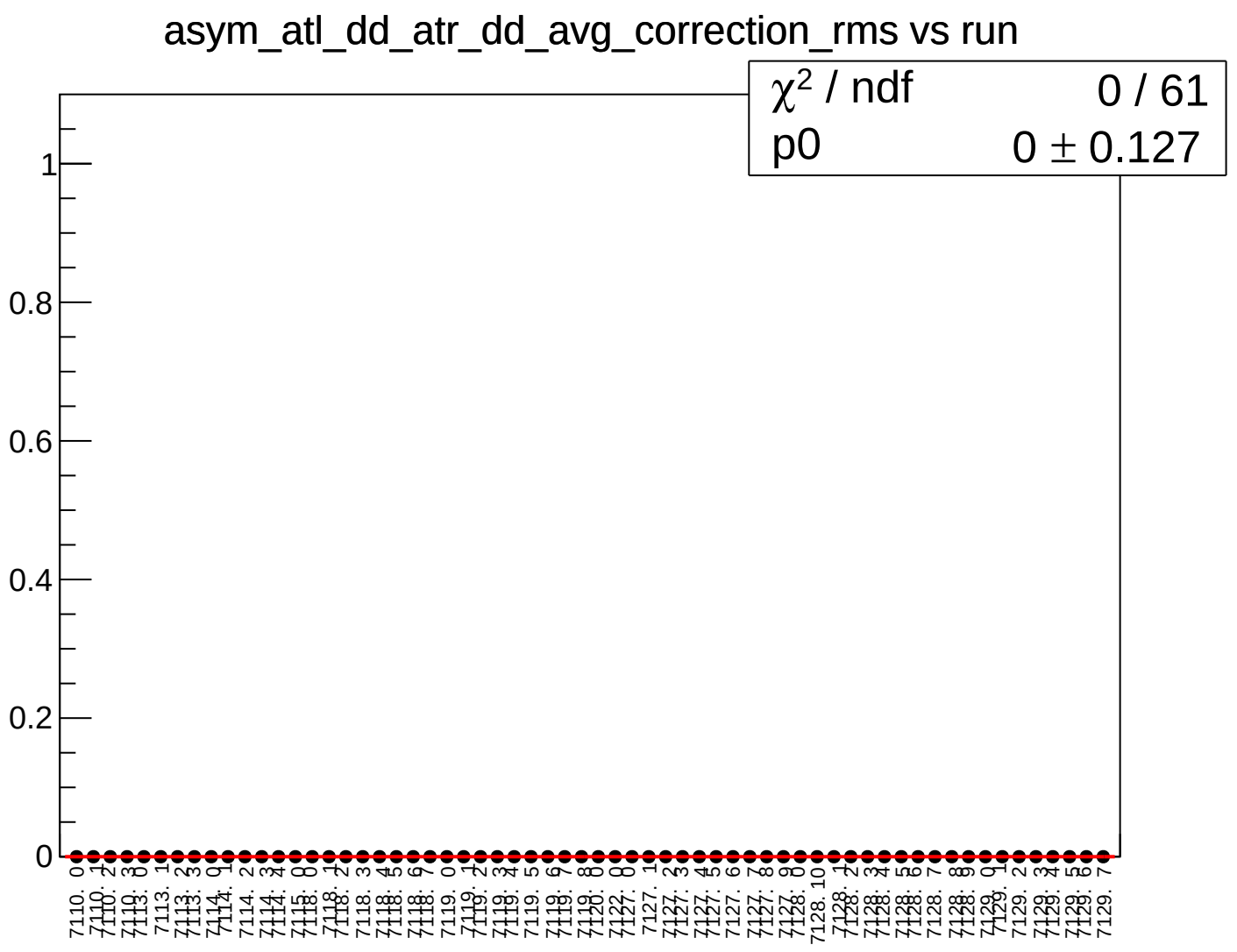

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 63.59 / 61
p0 −5189 ± 6798
200
100
0
−100
−200
pull
Entries 62
Mean 42.2
Std Dev 37
2
1
0
−1
−2

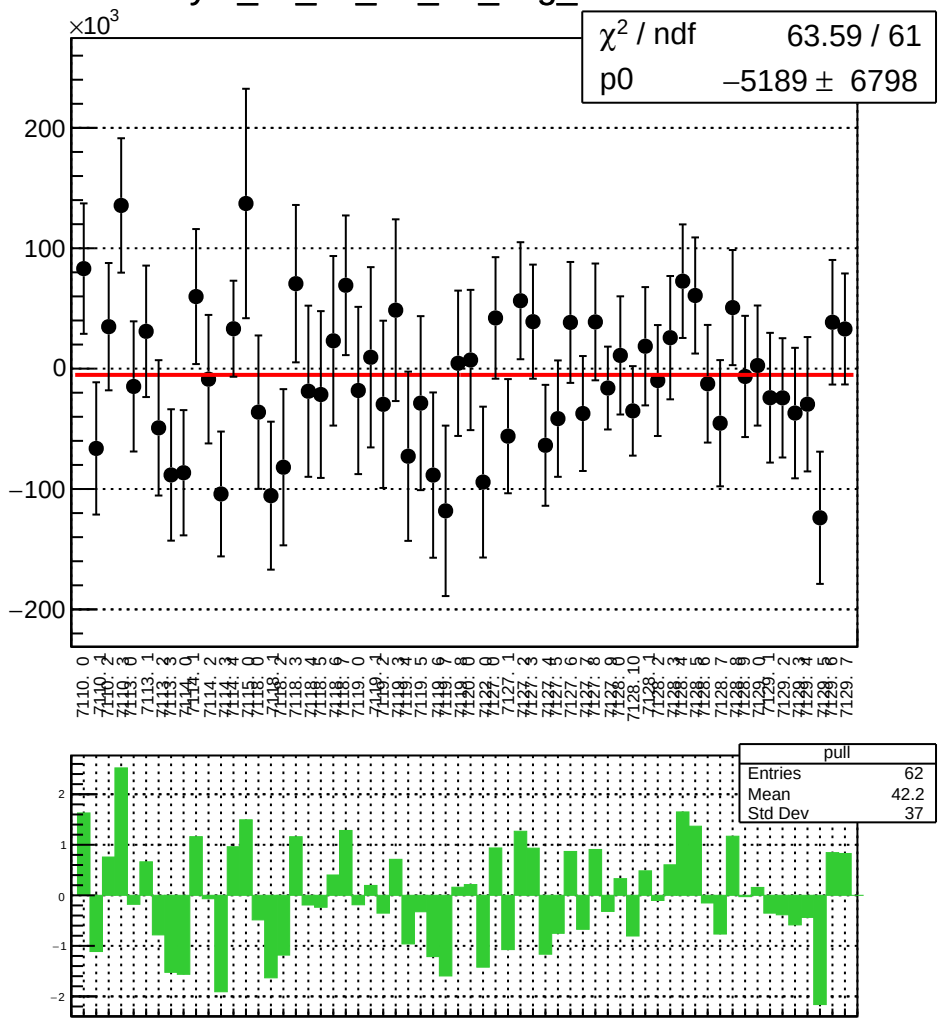

pull1D
Entries 62
Mean −0.01636
Std Dev 1.013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

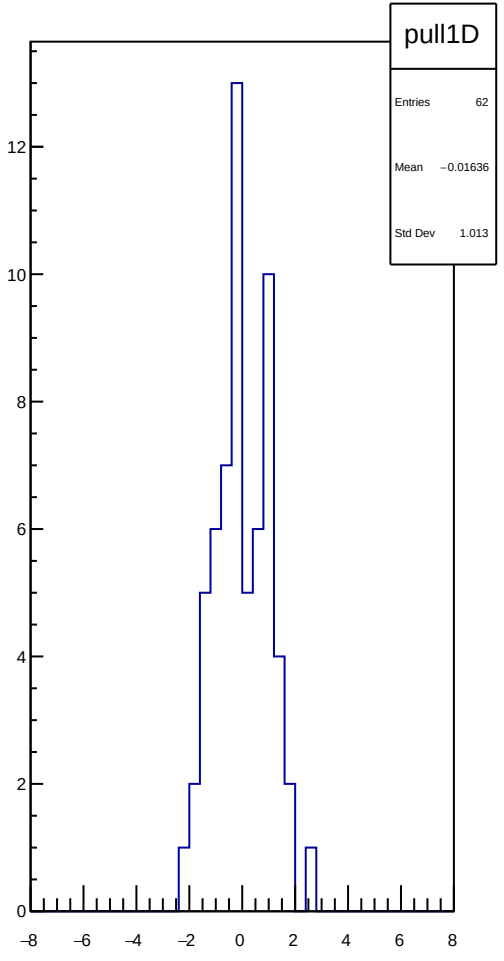

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2.378e+04 / 61
p0 5188 ± 4.807
7500
7000
6500
6000
5500
5000
4500

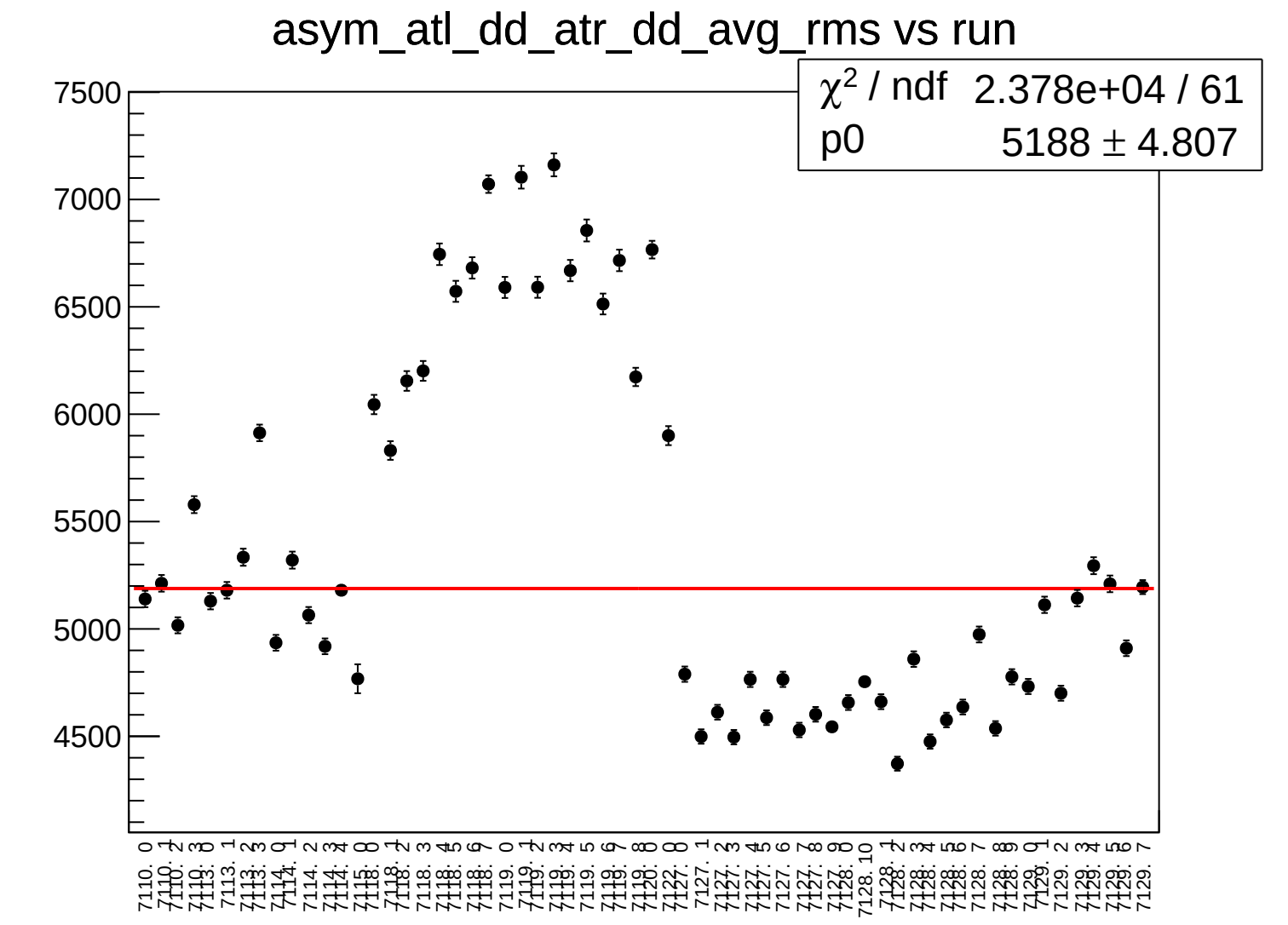

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

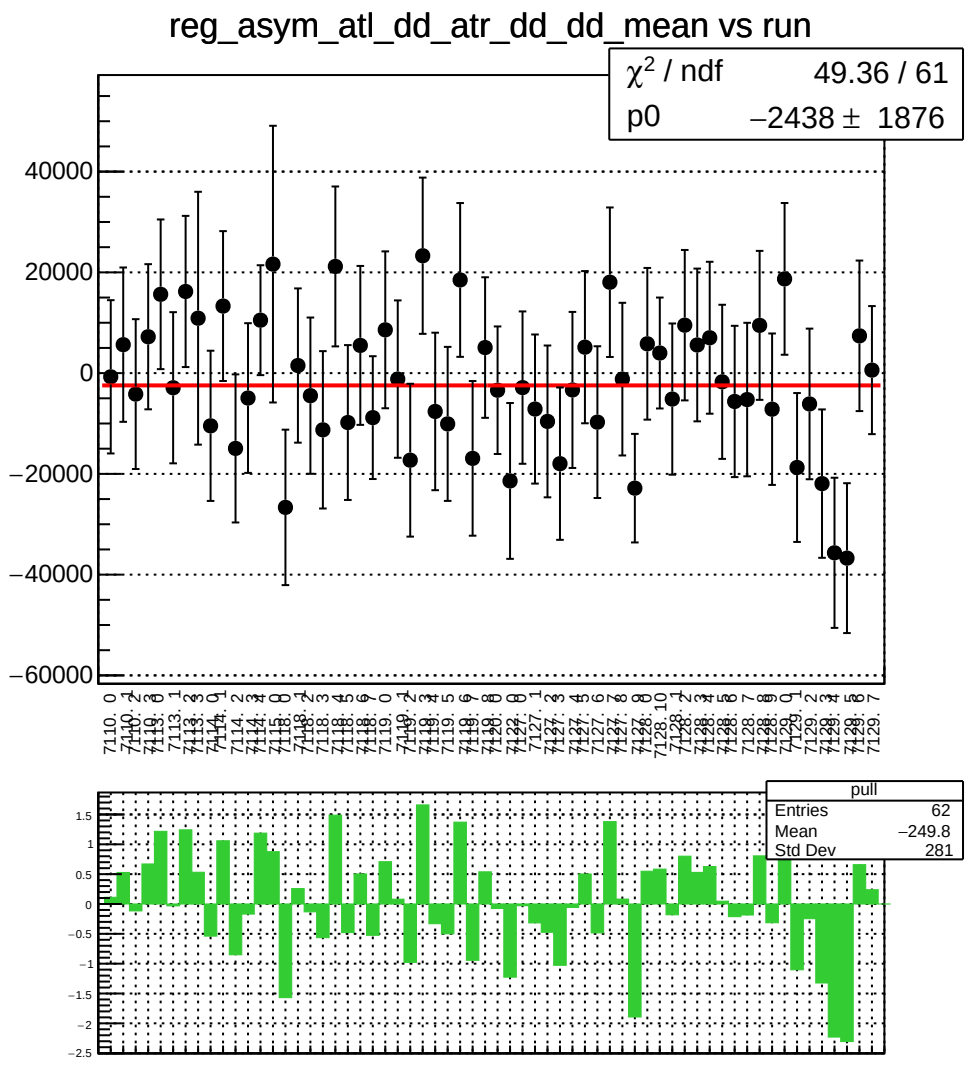

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

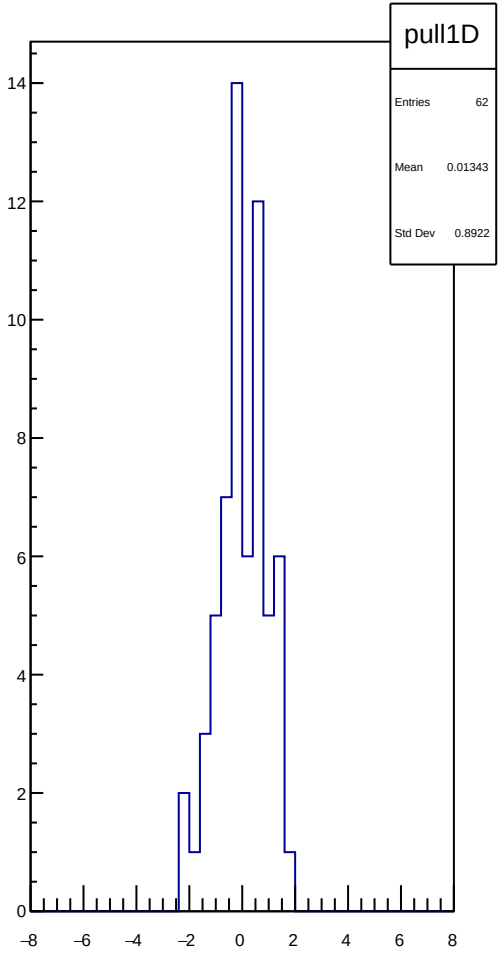

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7115. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

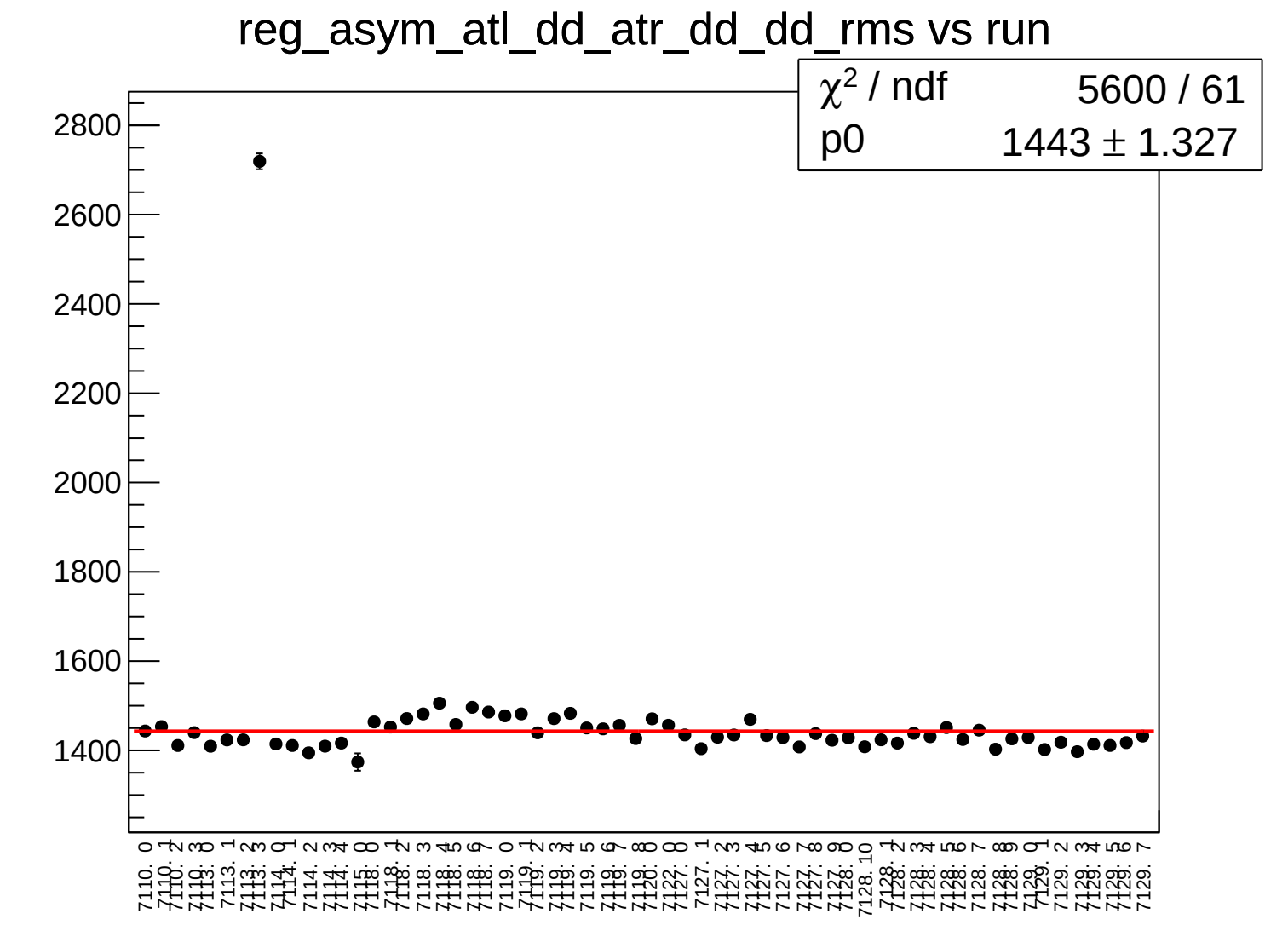

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 63.59 / 61
p0 −5189 ± 6798
200
100
0
−100
−200
pull
Entries 62
Mean 42.2
Std Dev 37
2
1
0
−1
−2

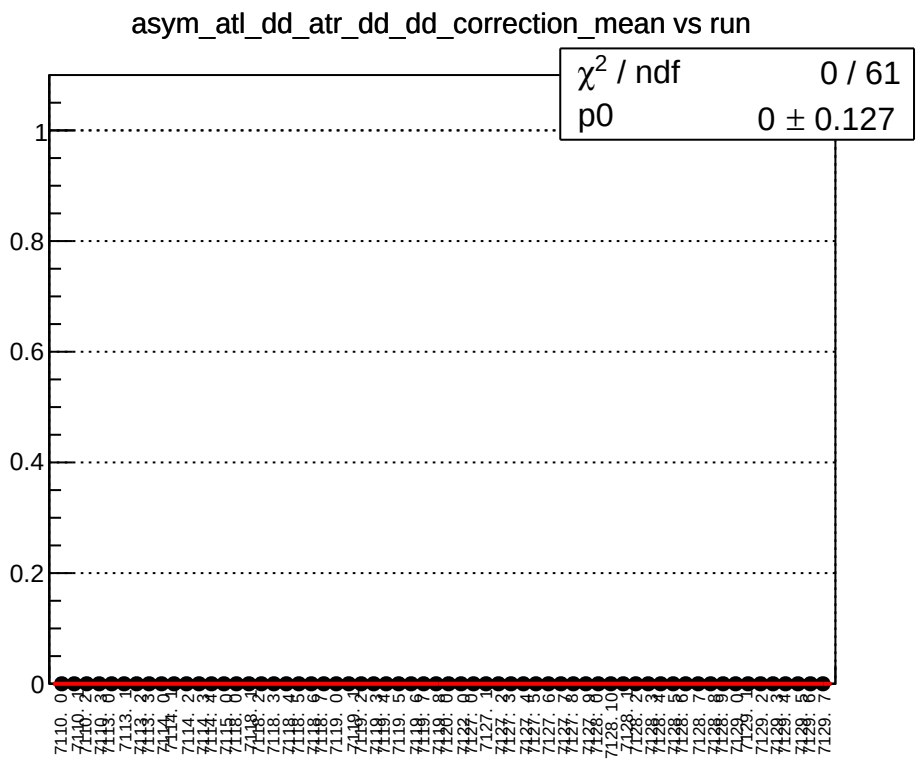

pull1D
Entries 62
Mean −0.01636
Std Dev 1.013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

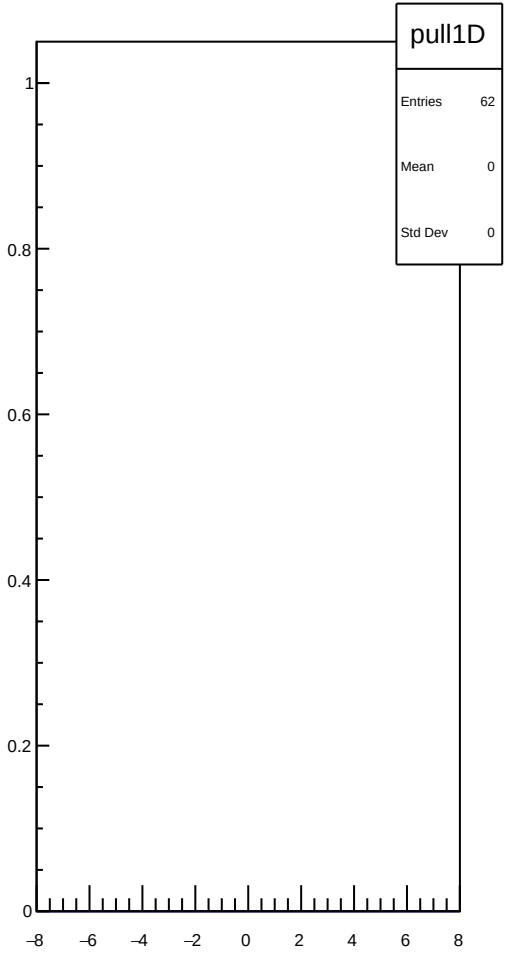

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2.378e+04 / 61
p0 5188 ± 4.807
7500
7000
6500
6000
5500
5000
4500

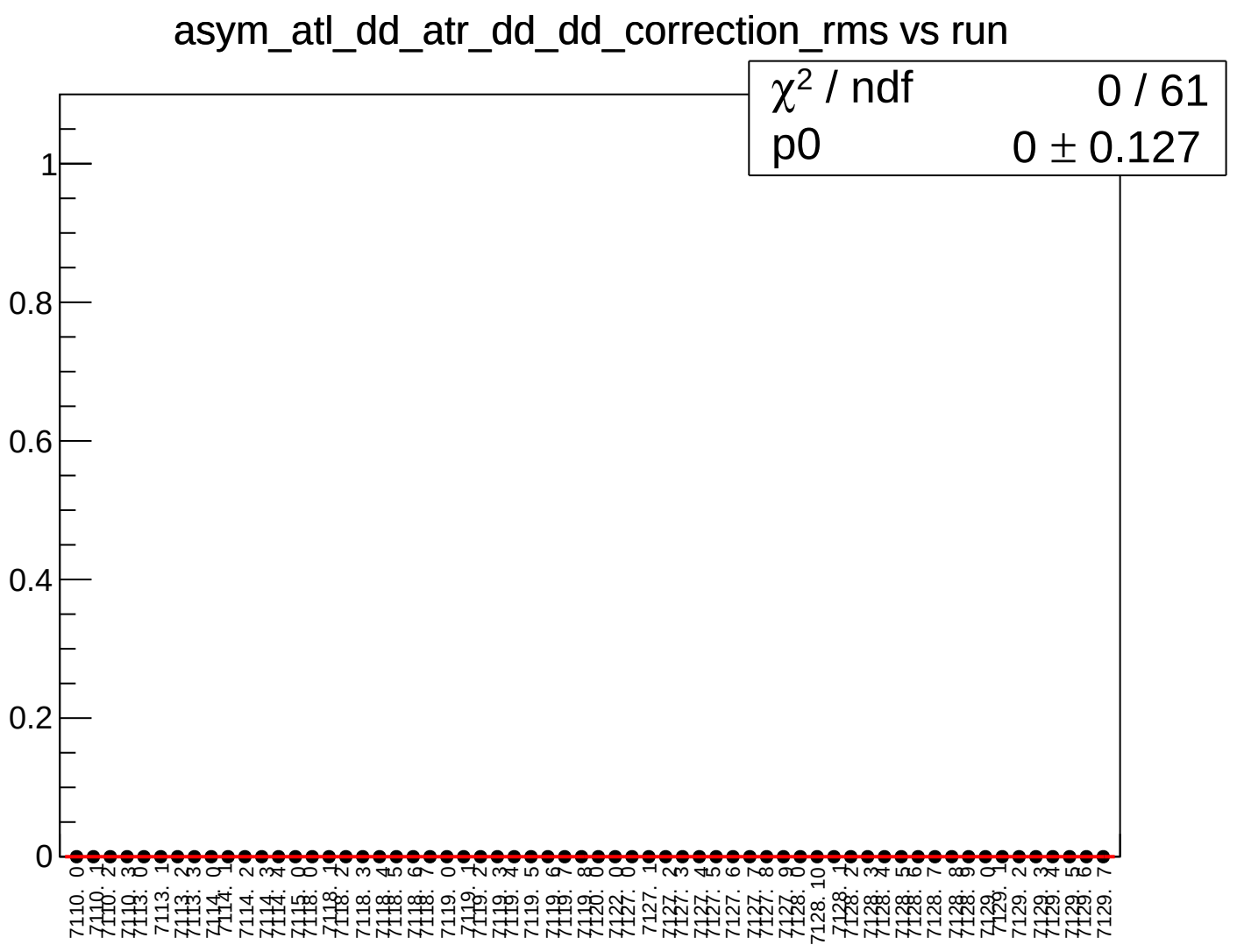

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 49.36 / 61
p0 −2438 ± 1876
40000
20000
0
−20000
−40000
−60000
pull
Entries 62
Mean −249.8
Std Dev 281
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

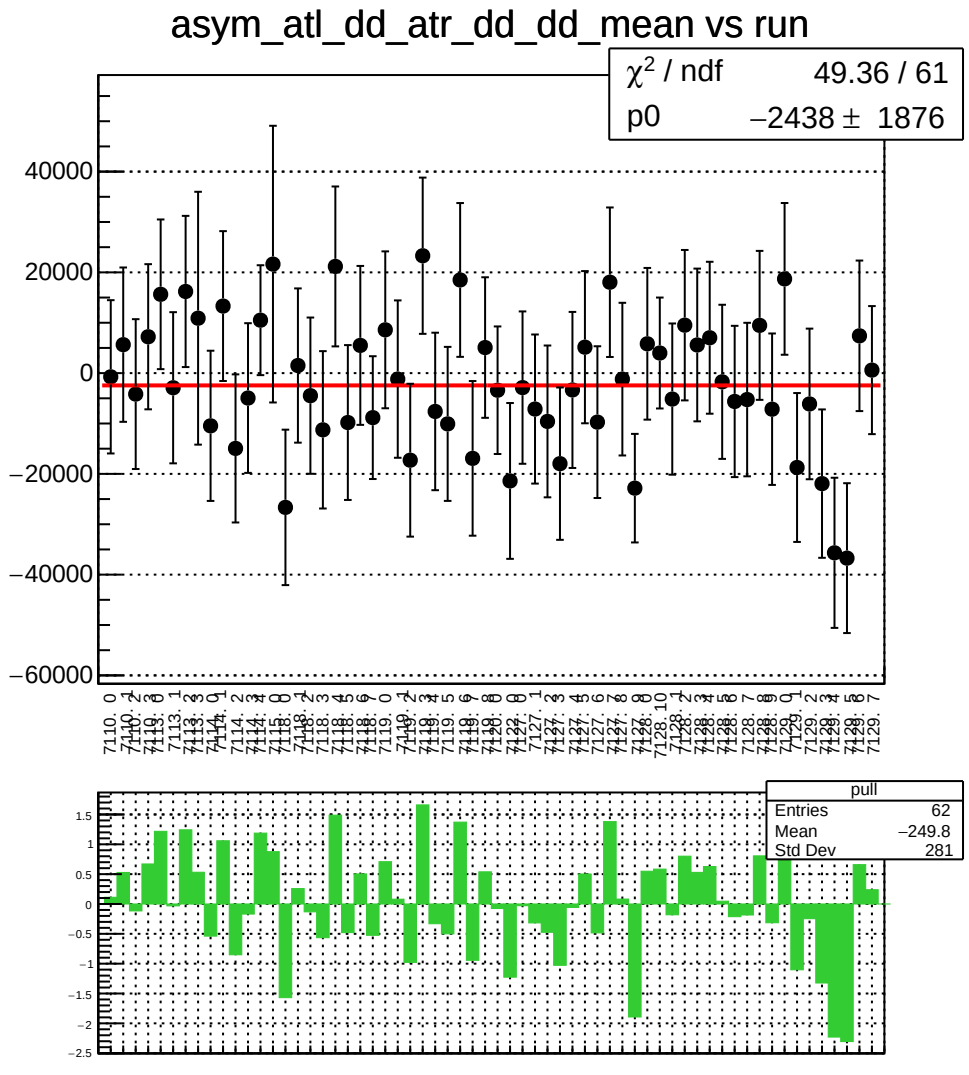

pull1D
Entries 62
Mean 0.01343
Std Dev 0.8922
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

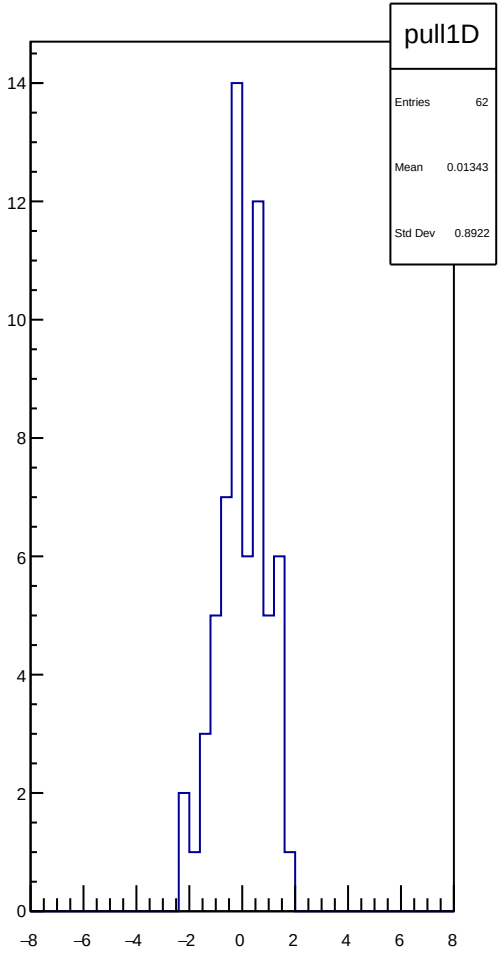

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 5600 / 61
p0 1443 ± 1.327
2800
2600
2400
2200
2000
1800
1600
1400

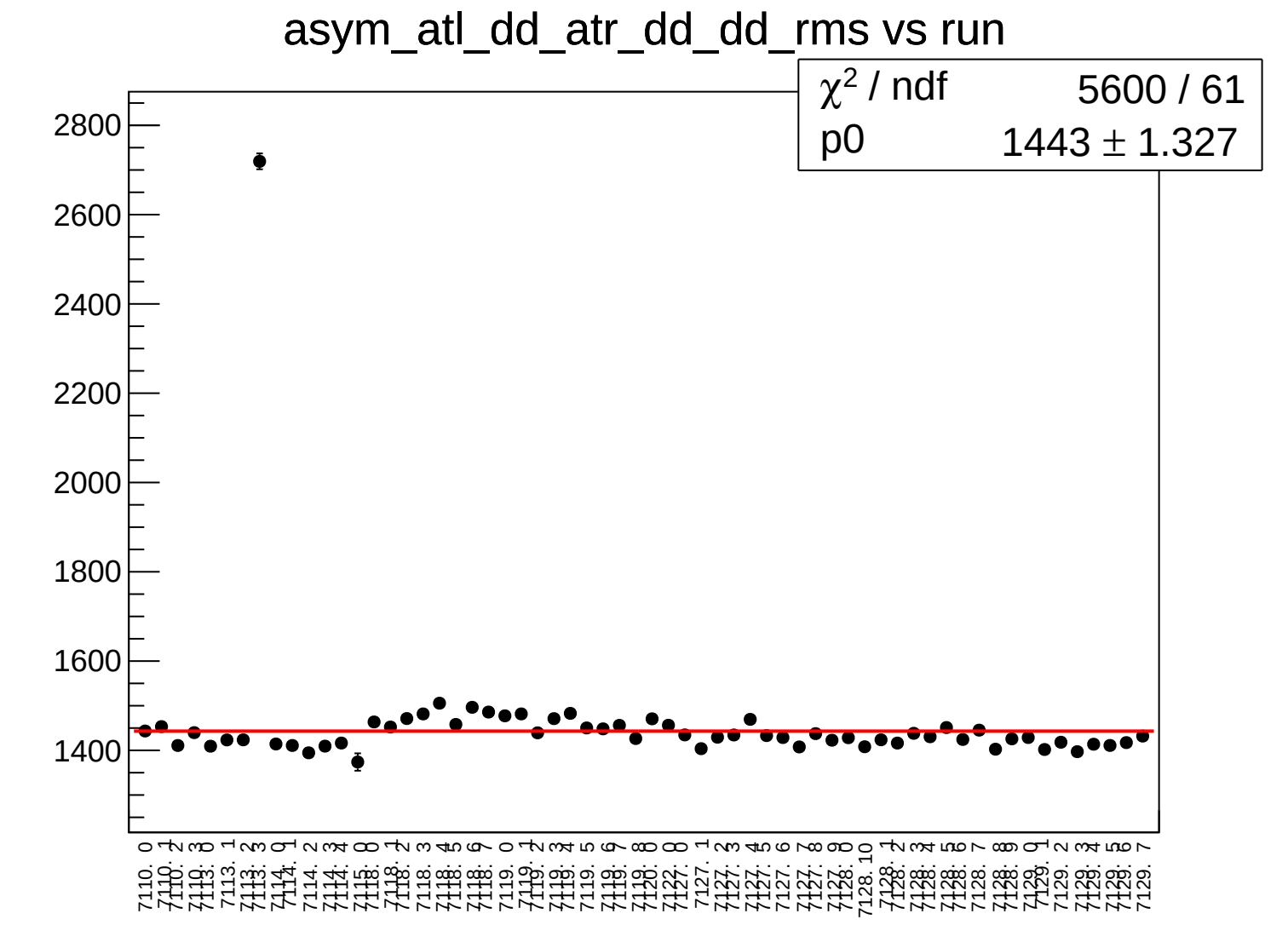

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

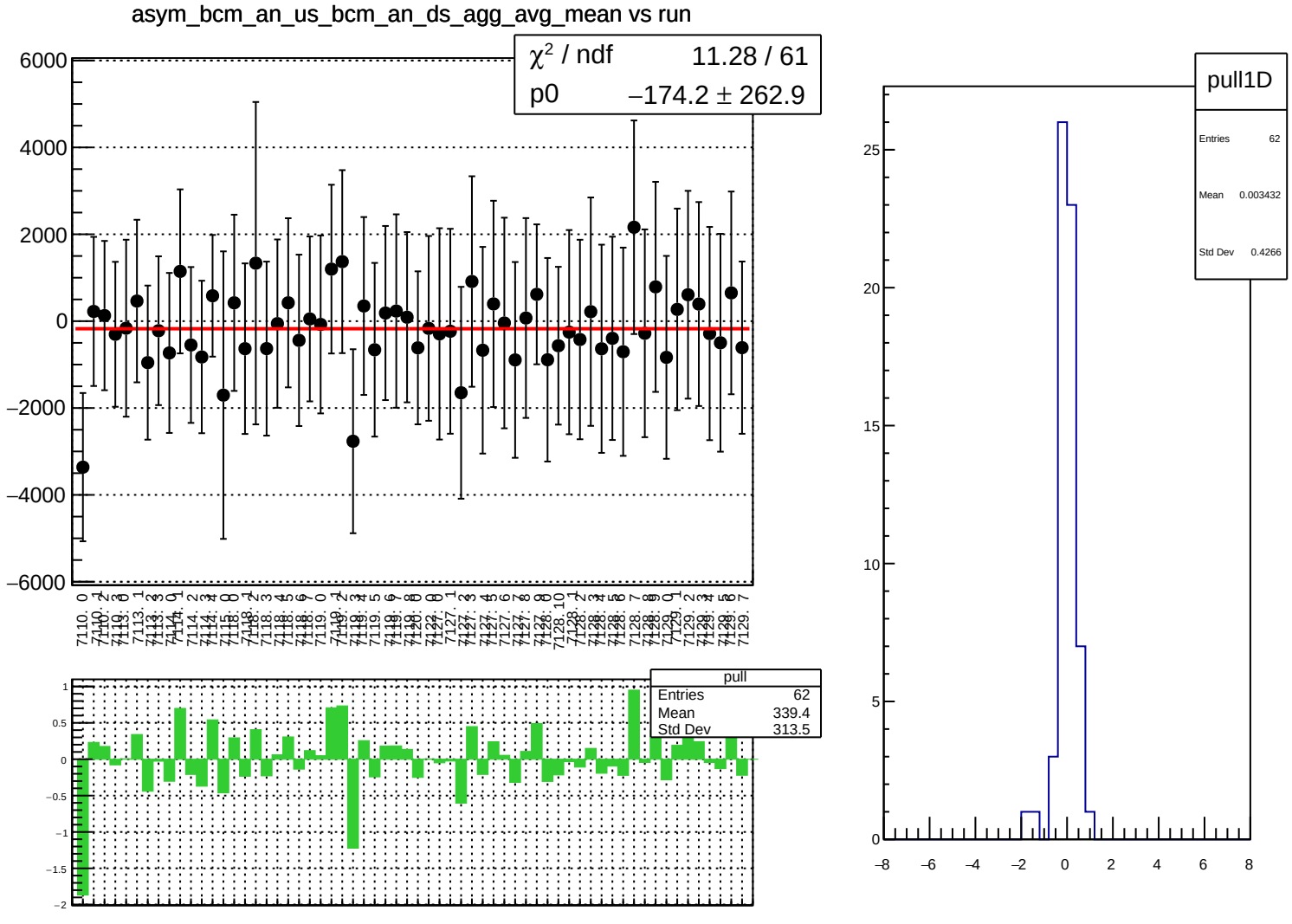

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

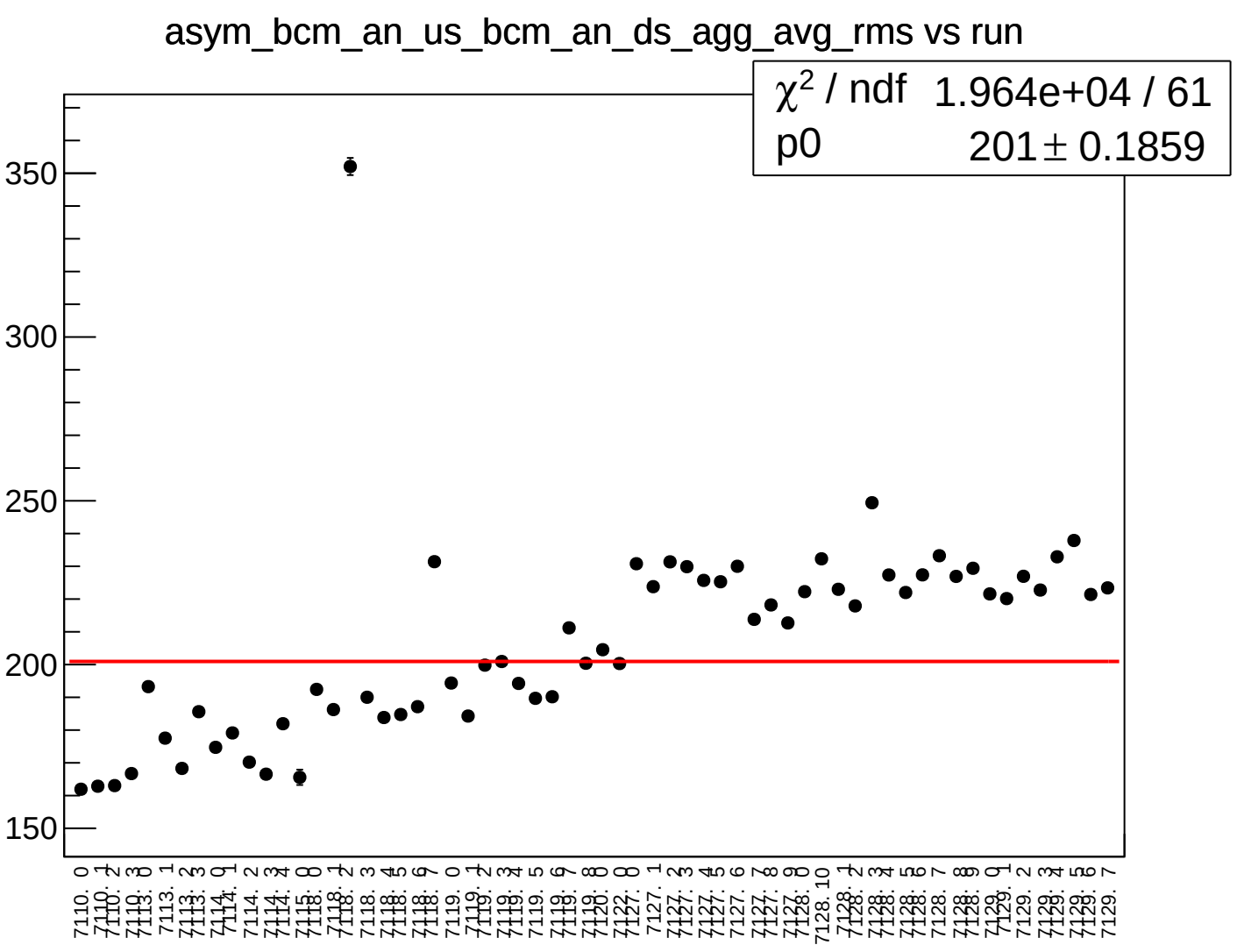

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7115. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

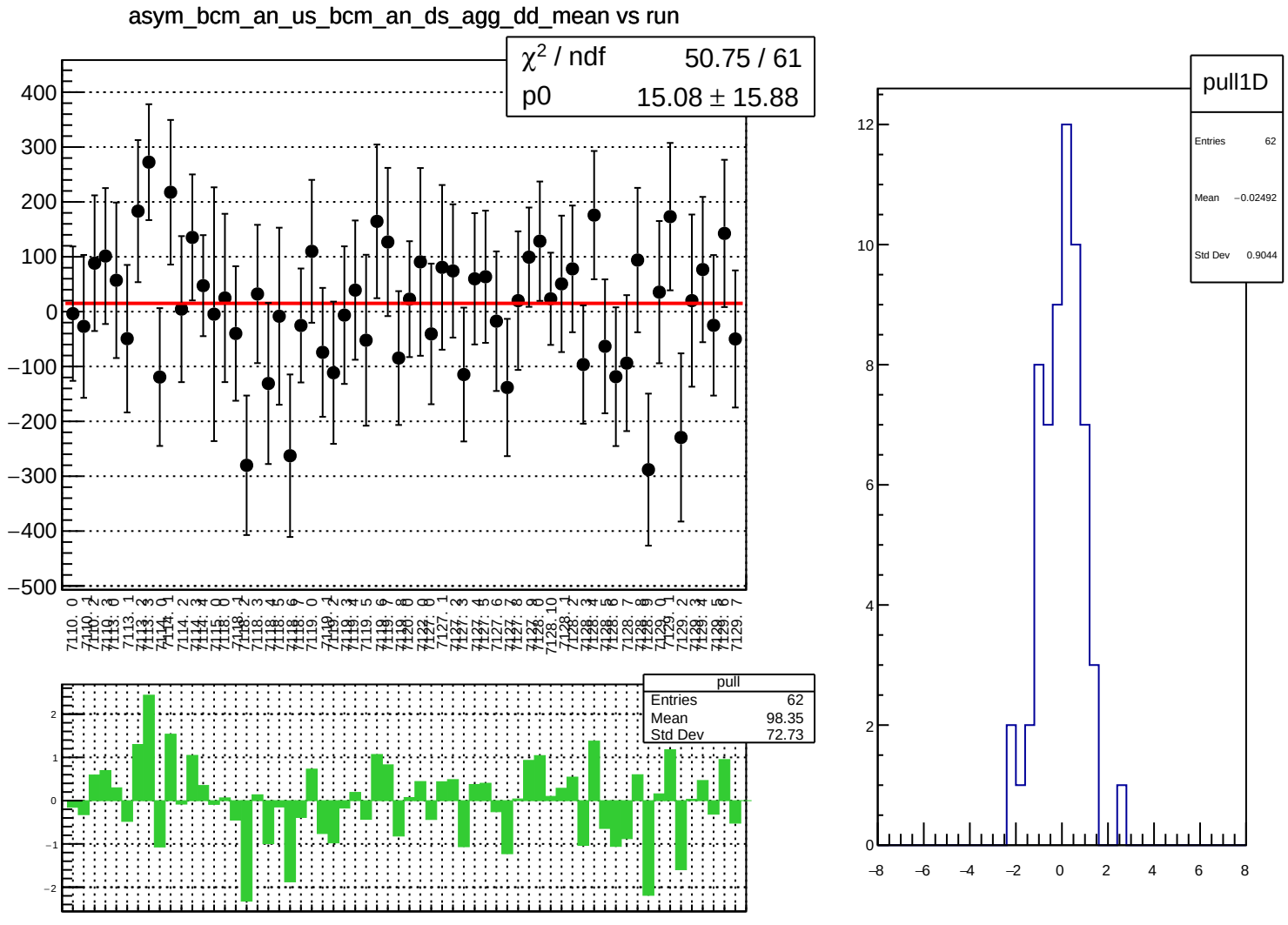

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 49.36 / 61
p0 −2438 ± 1876
40000
20000
0
−20000
−40000
−60000
pull
Entries 62
Mean −249.8
Std Dev 281
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

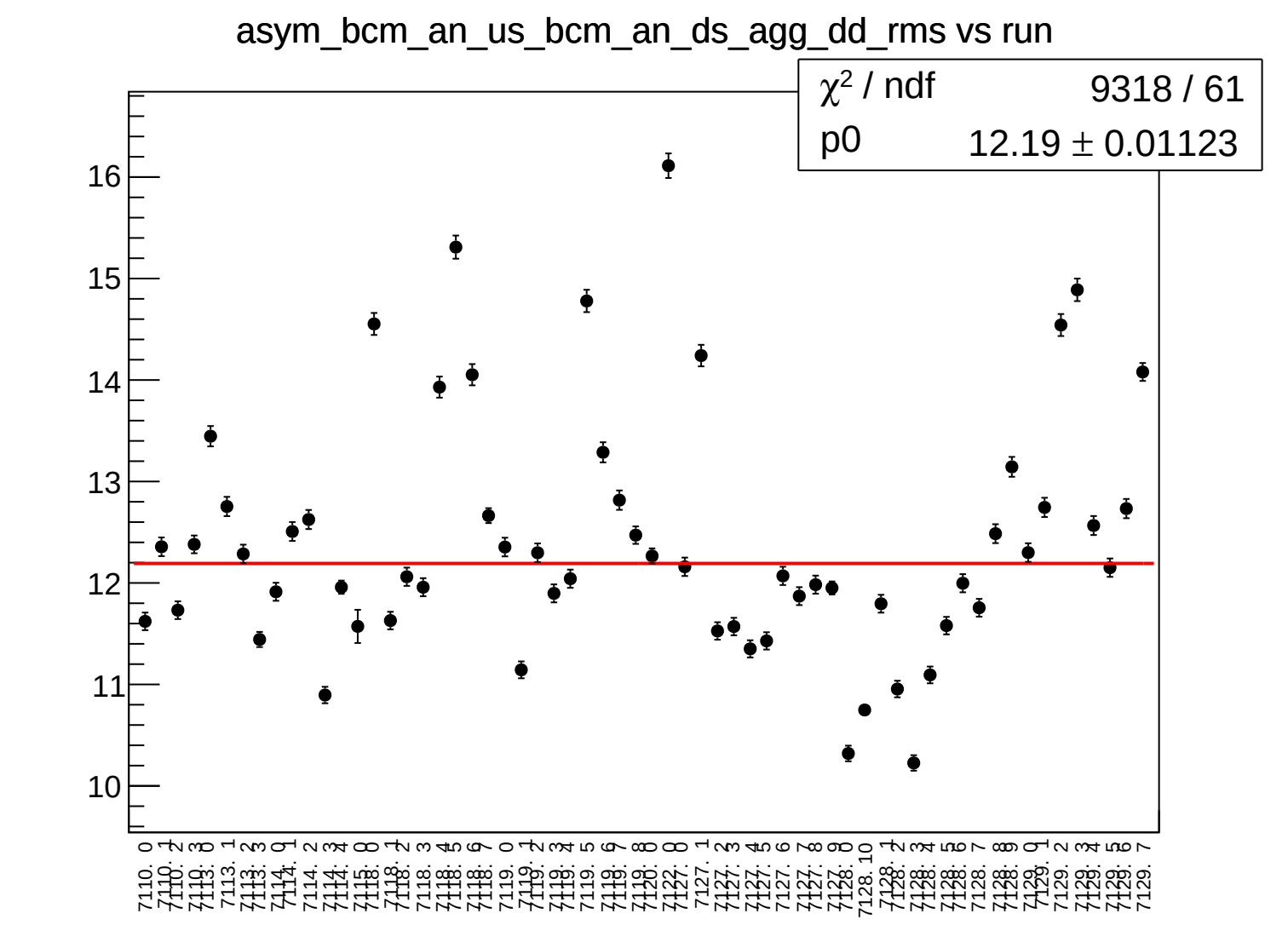

pull1D
Entries 62
Mean 0.01343
Std Dev 0.8922
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

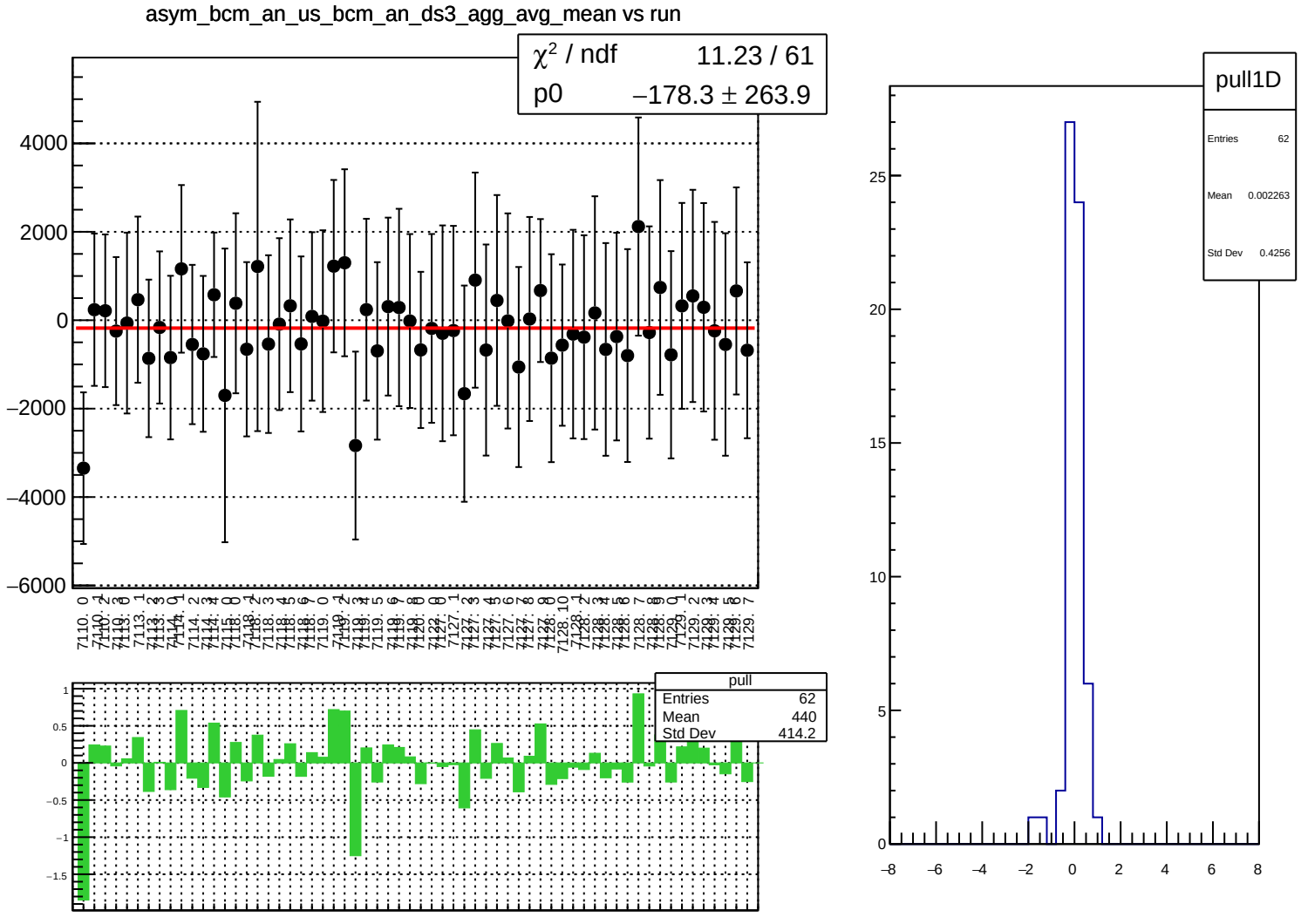

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 5600 / 61
p0 1443 ± 1.327
2800
2600
2400
2200
2000
1800
1600
1400

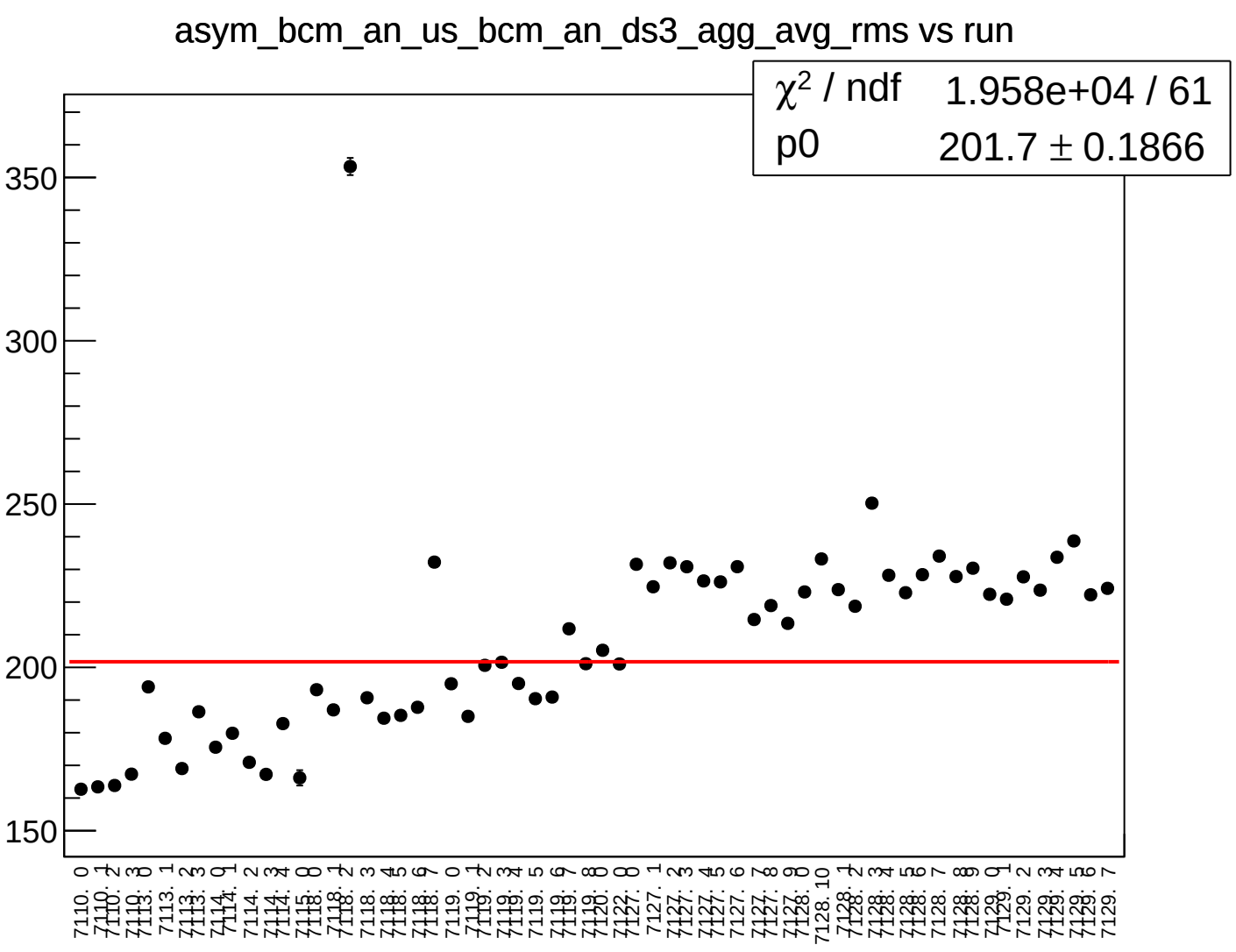

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.28 / 61
p0 −174.2 ± 262.9
pull
Entries 62
Mean 339.4
Std Dev 313.5
pull1D
Entries 62
Mean 0.003432
Std Dev 0.4266

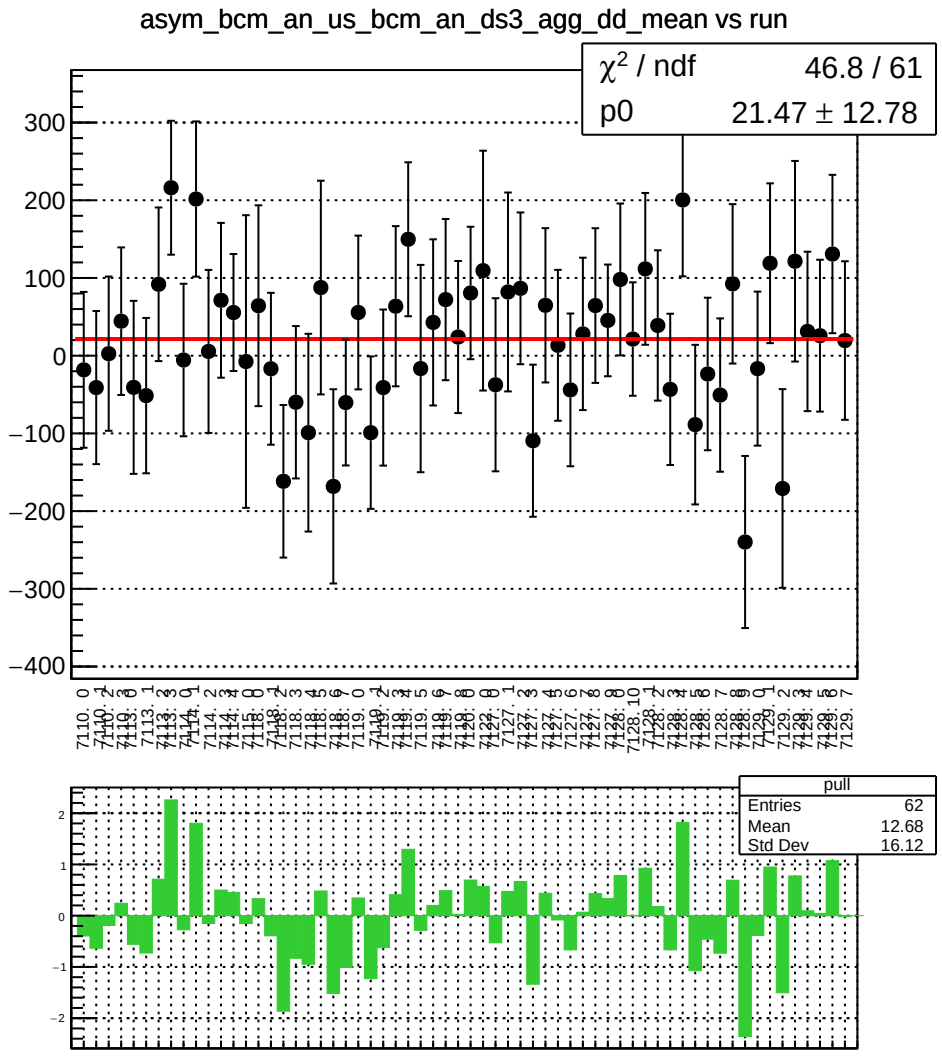

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.964e+04 / 61
p0 201 ± 0.1859
350
300
250
200
150
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

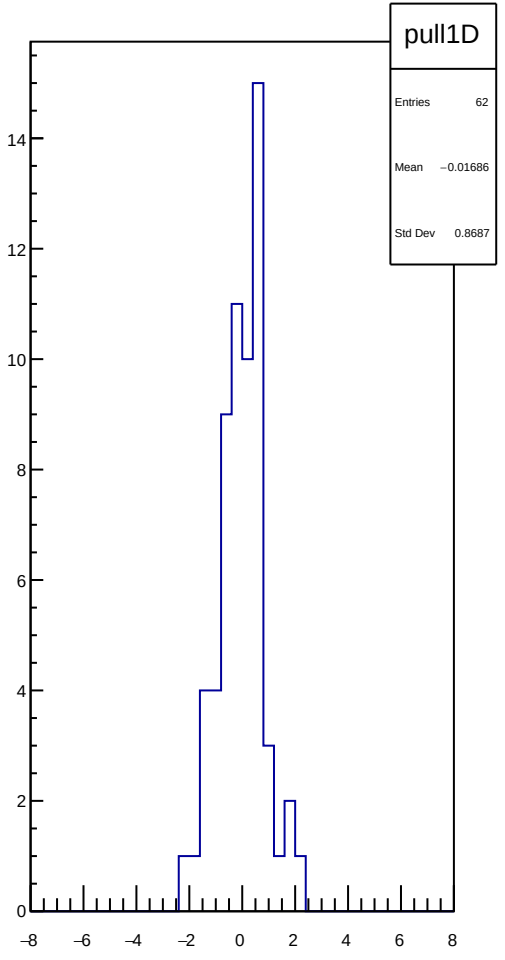

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 50.75 / 61
p0 15.08 ± 15.88
pull
Entries 62
Mean 98.35
Std Dev 72.73
pull1D
Entries 62
Mean −0.02492
Std Dev 0.9044

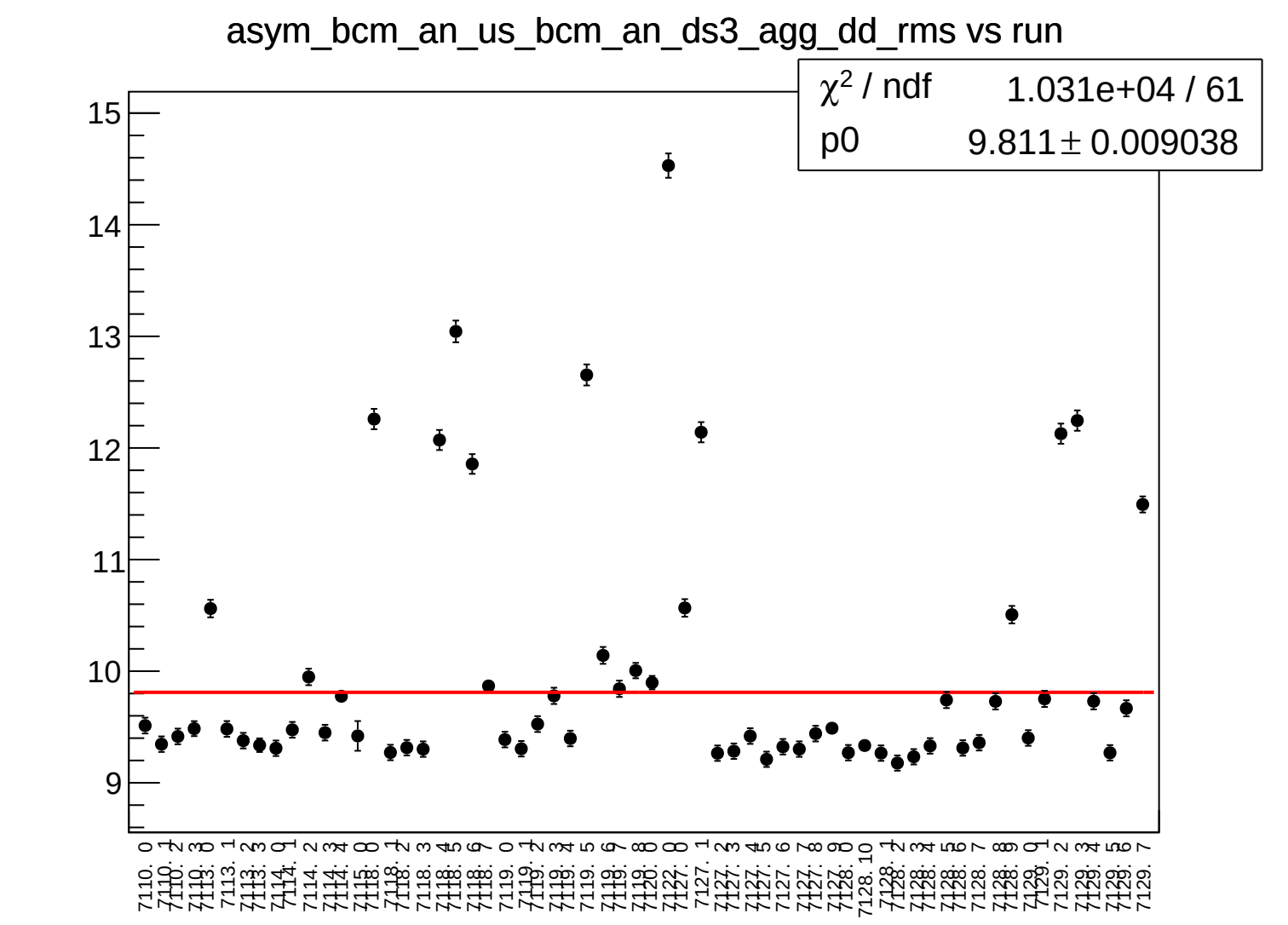

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 9318 / 61
p0 12.19 ± 0.01123
16
15
14
13
12
11
10
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

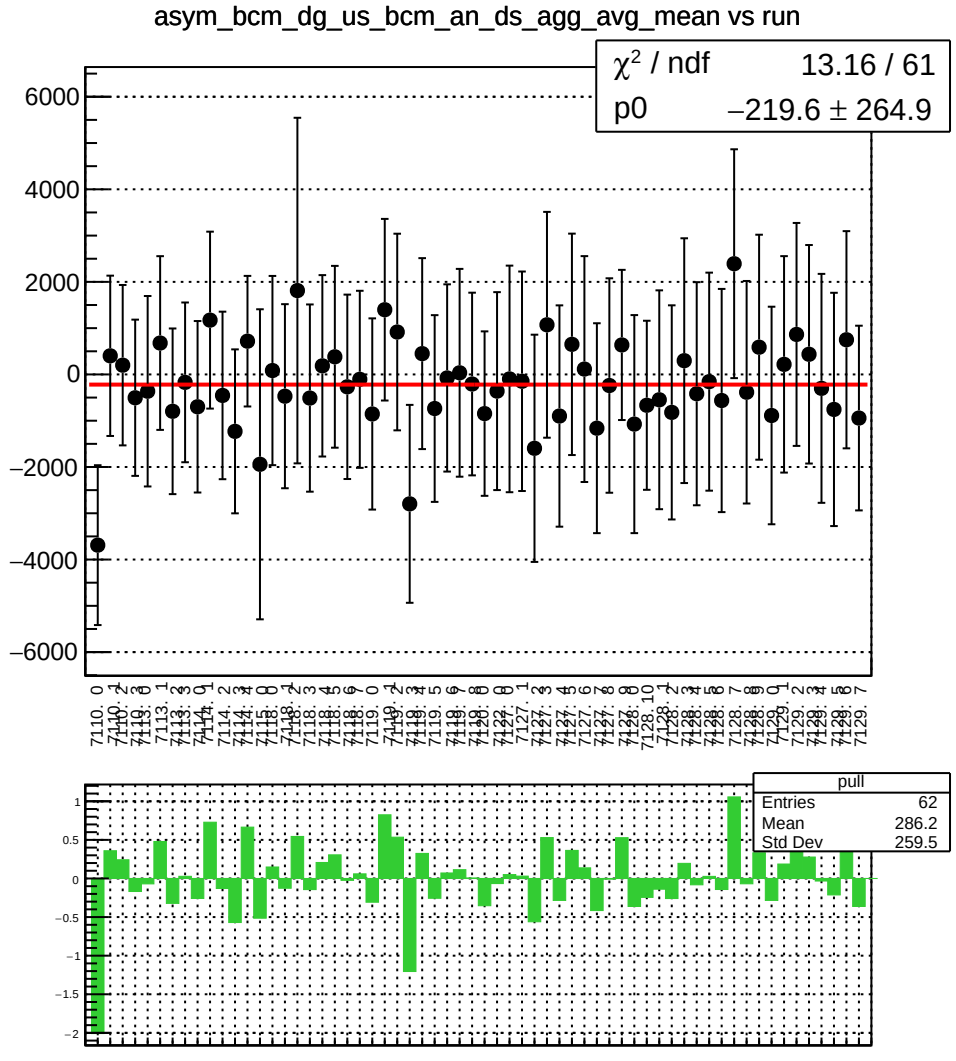

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 11.23 / 61
p0 −178.3 ± 263.9
pull
Entries 62
Mean 440
Std Dev 414.2
pull1D
Entries 62
Mean 0.002263
Std Dev 0.4256

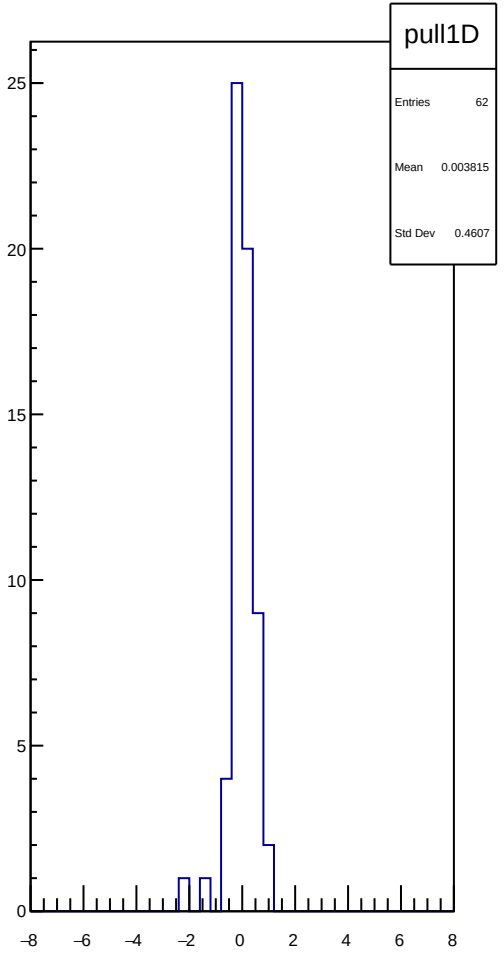

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.958e+04 / 61
p0 201.7 ± 0.1866
350
300
250
200
150
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

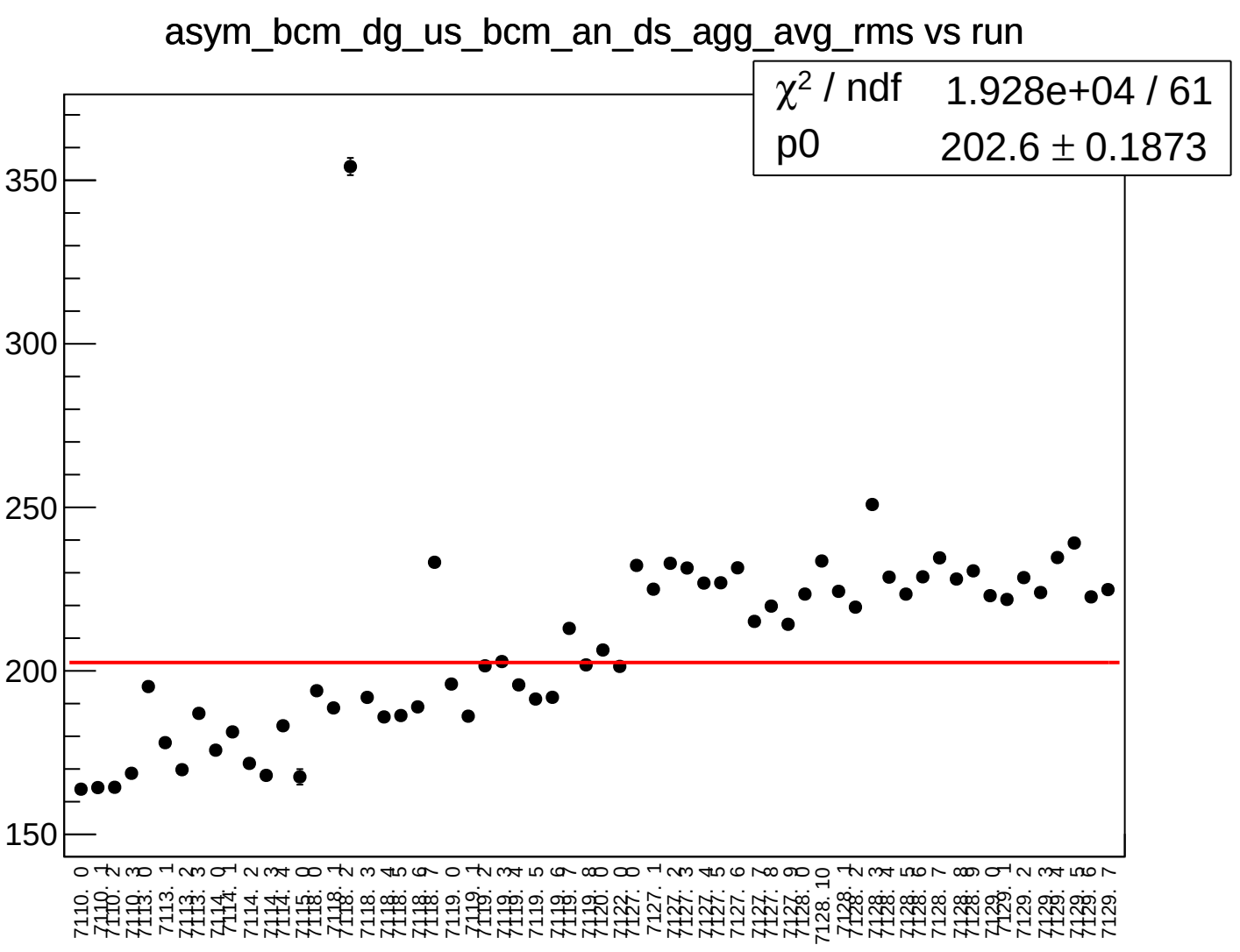

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 46.8 / 61
p0 21.47 ± 12.78
pull
Entries 62
Mean 12.68
Std Dev 16.12

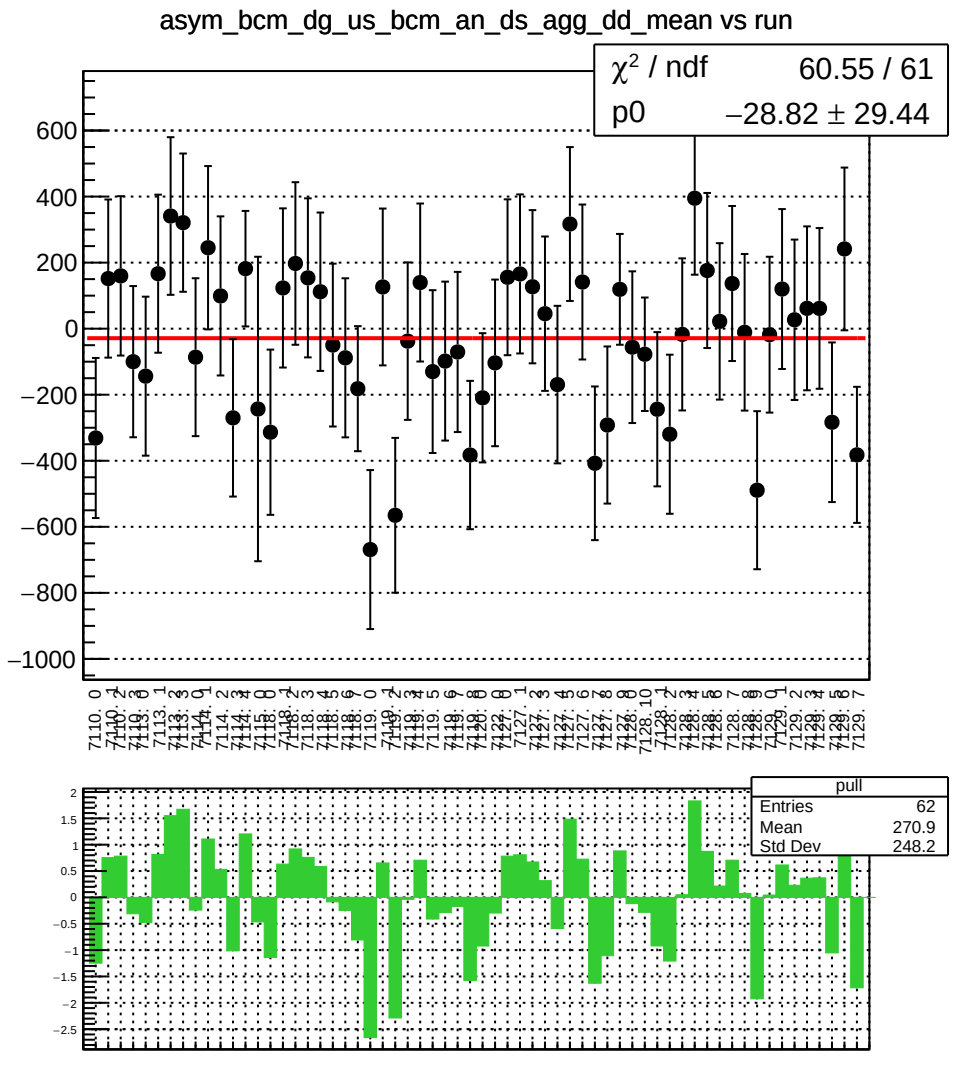

pull1D
Entries 62
Mean −0.01686
Std Dev 0.8687

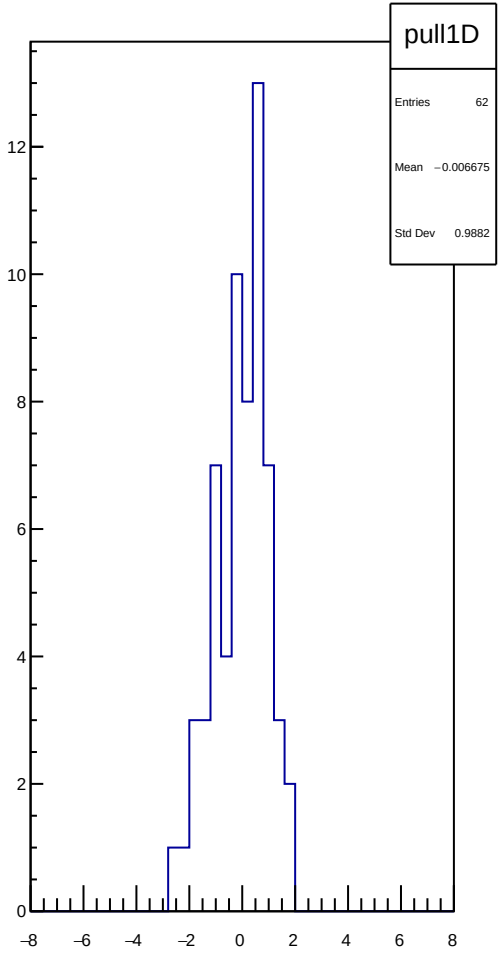

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ^2 / ndf 1.031e+04 / 61
p0 9.811 ± 0.009038
15
14
13
12
11
10
9
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

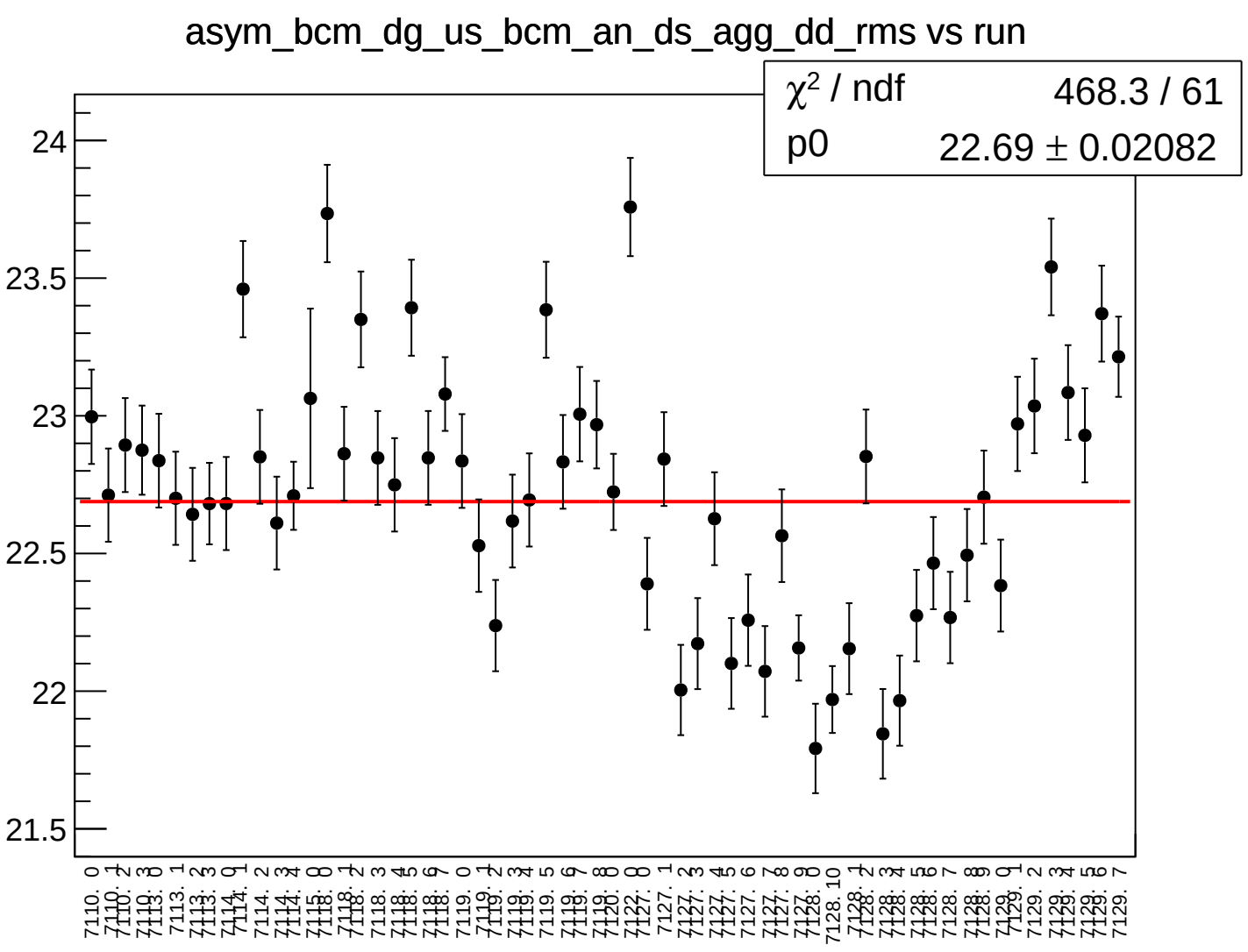

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.16 / 61
p0 −219.6 ± 264.9
pull
Entries 62
Mean 286.2
Std Dev 259.5

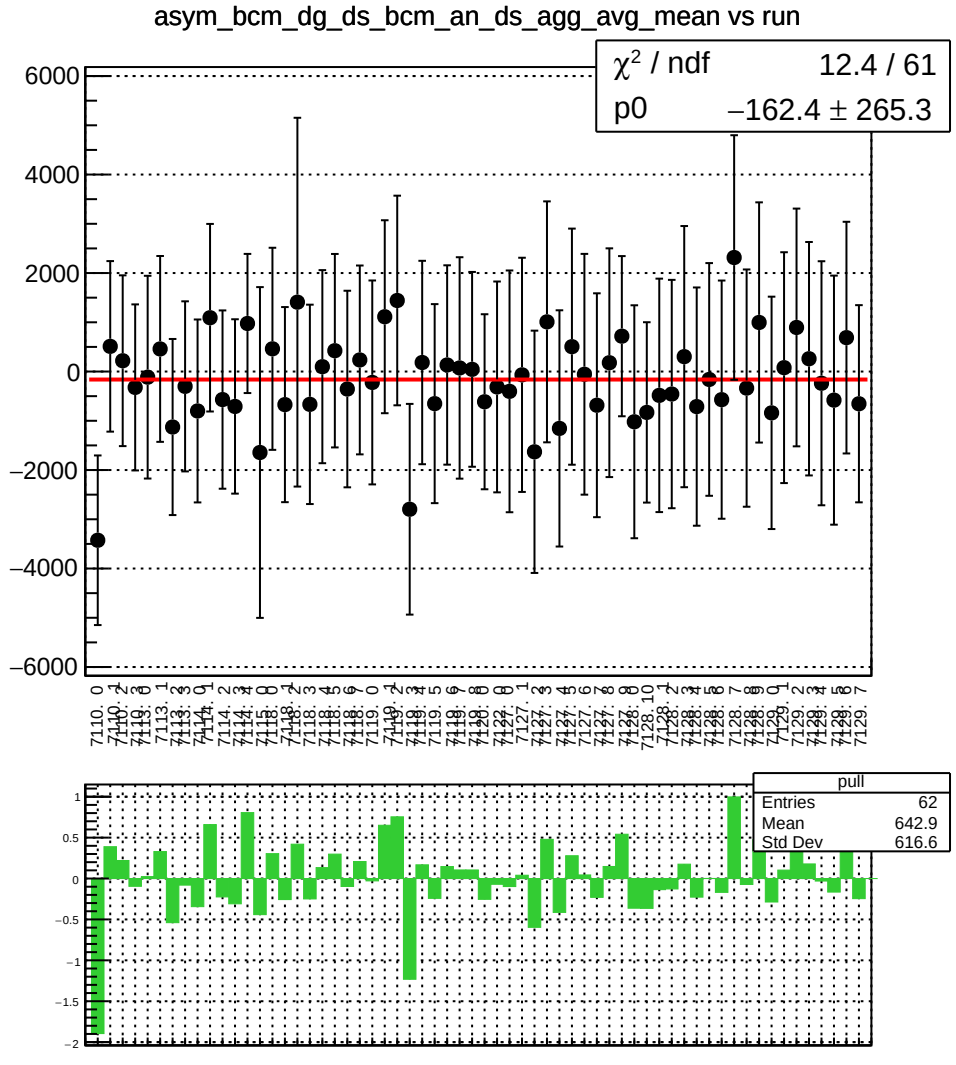

pull1D
Entries 62
Mean 0.003815
Std Dev 0.4607

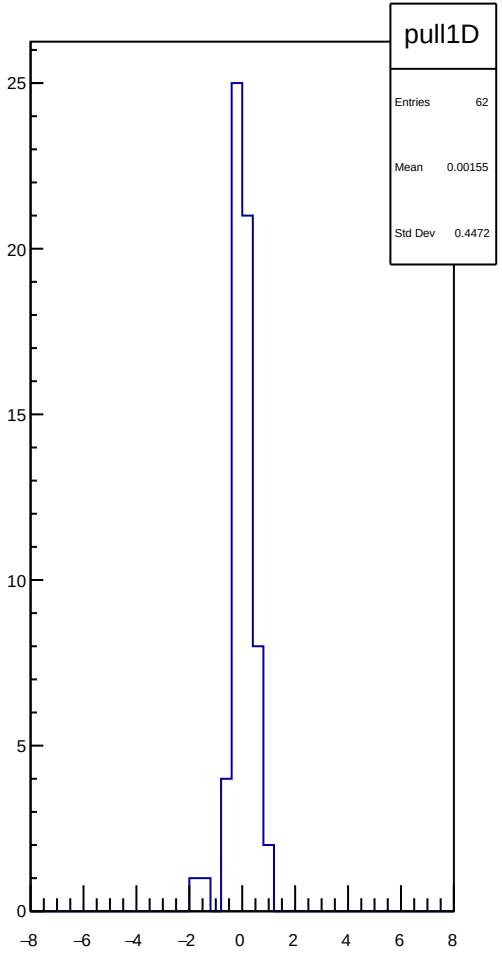

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.928e+04 / 61
p0 202.6 ± 0.1873
350
300
250
200
150
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

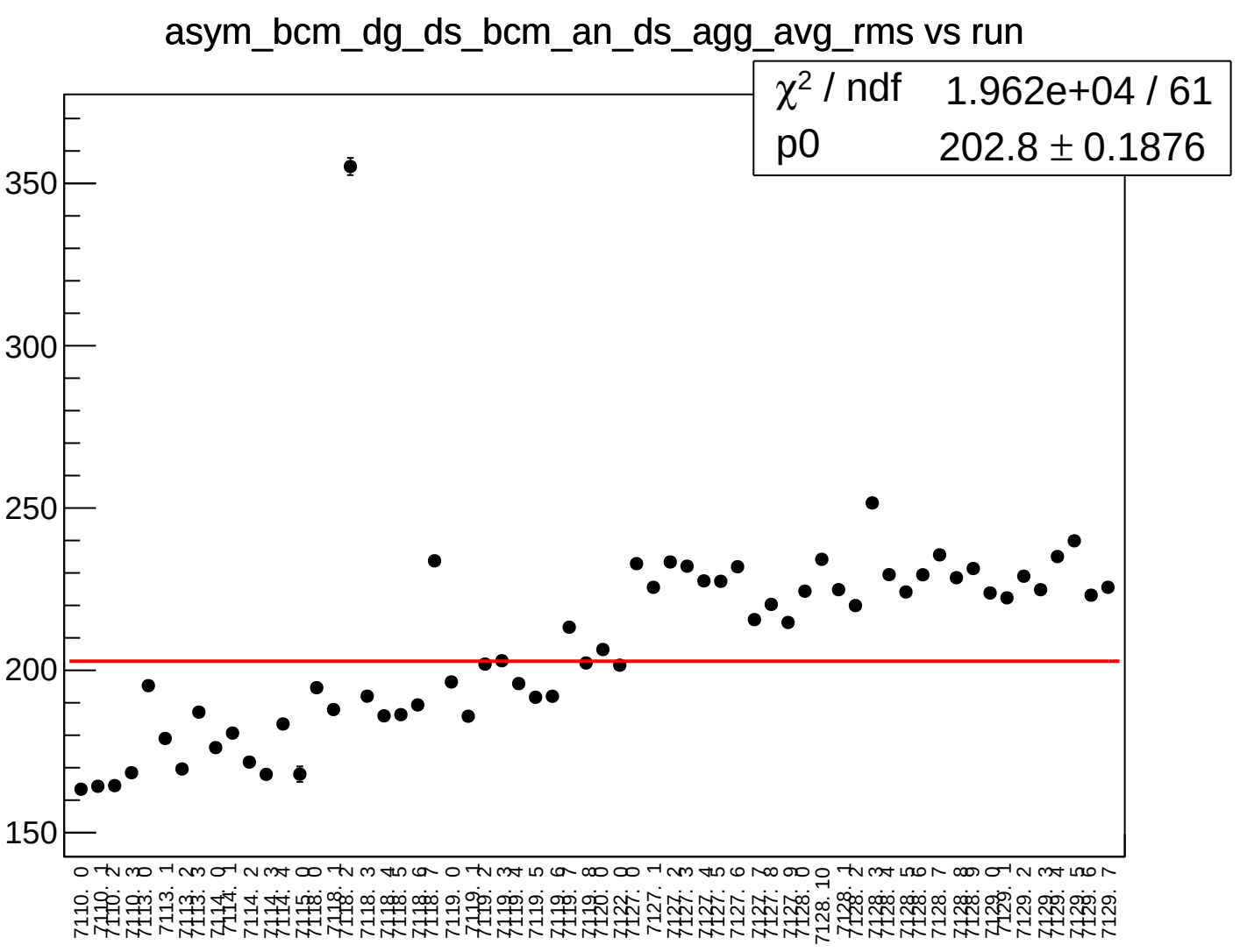

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 60.55 / 61
p0 −28.82 ± 29.44
pull
Entries 62
Mean 270.9
Std Dev 248.2

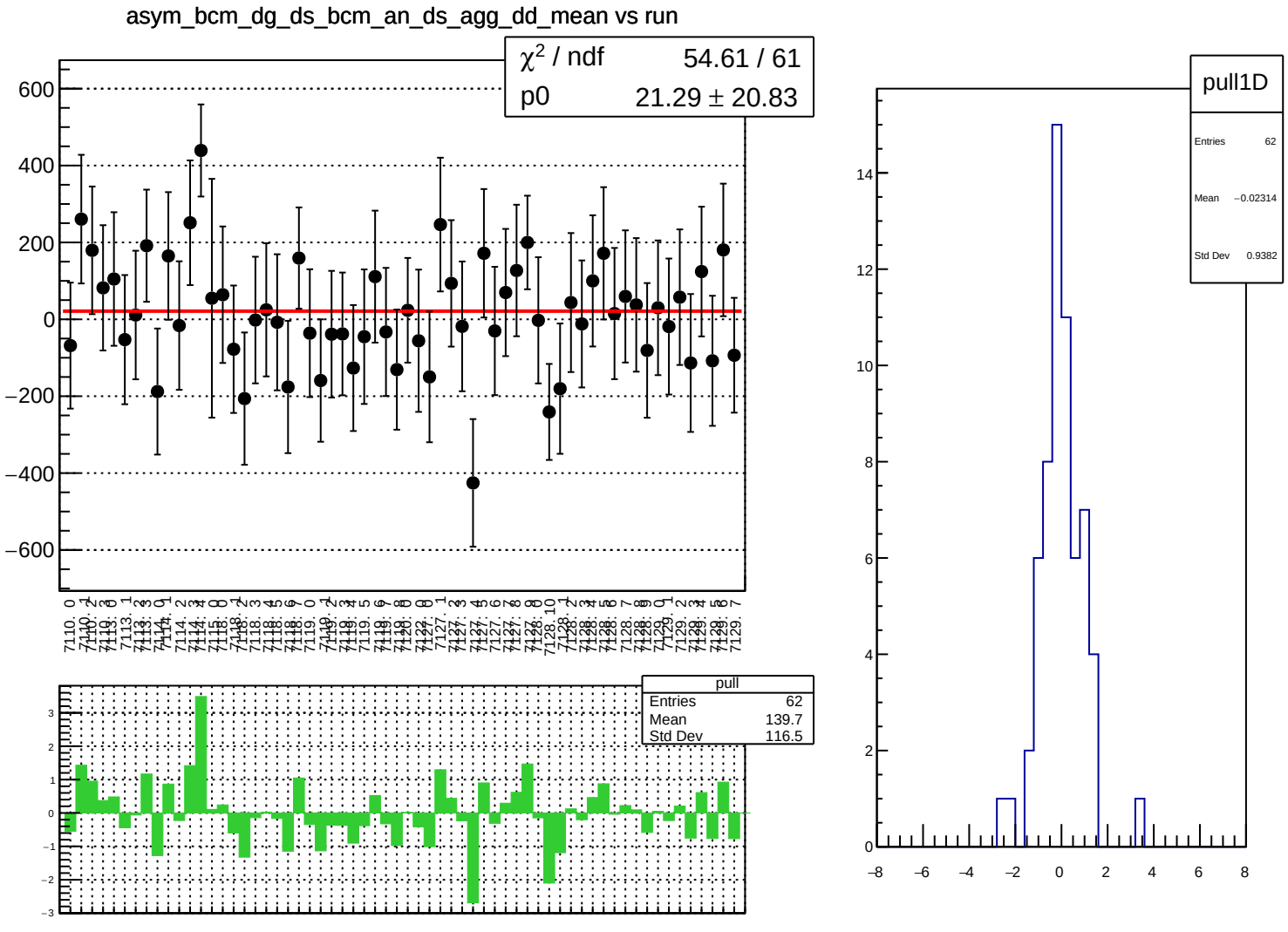

pull1D
Entries 62
Mean −0.006675
Std Dev 0.9882

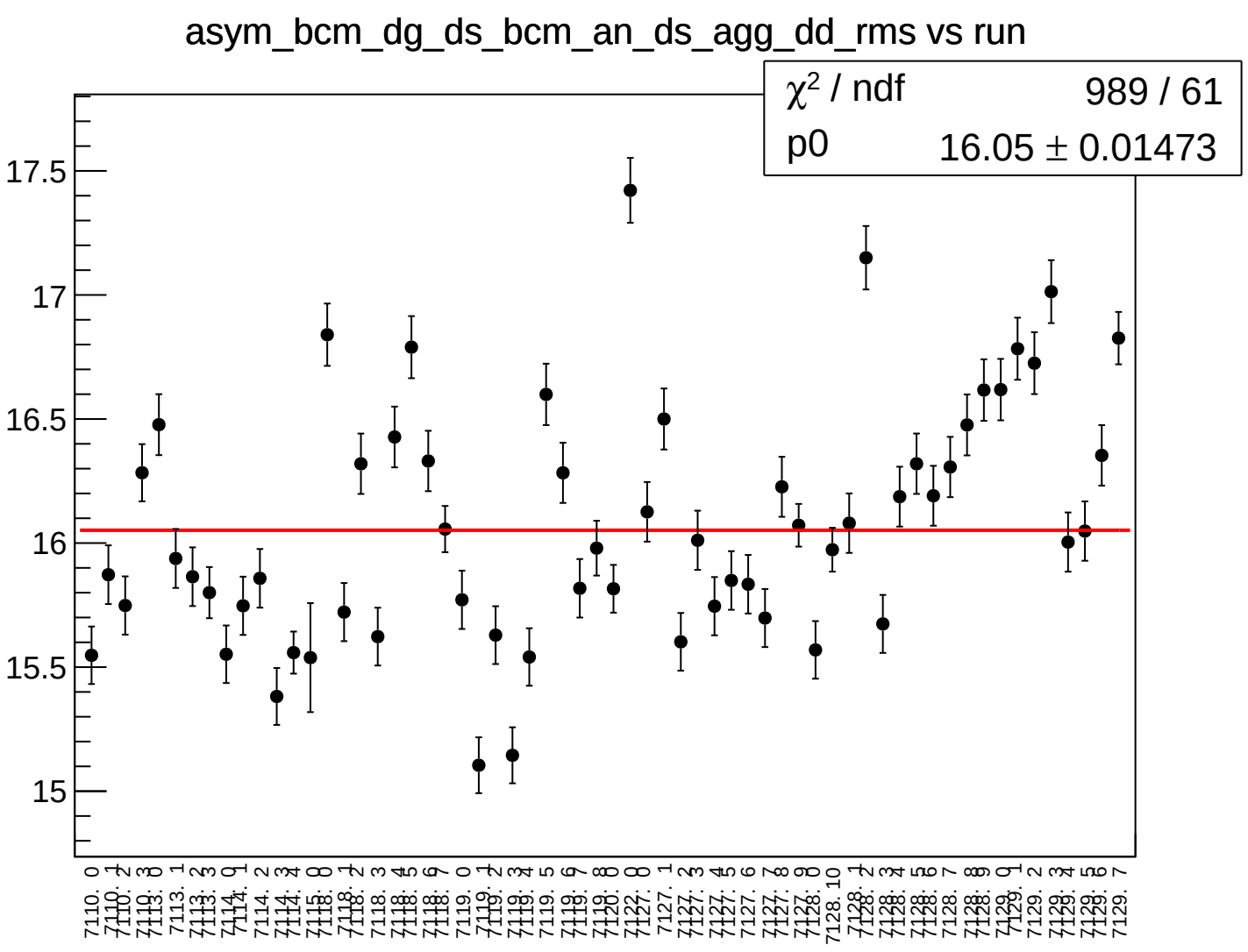

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 468.3 / 61
p0 22.69 ± 0.02082
24
23.5
23
22.5
22
21.5

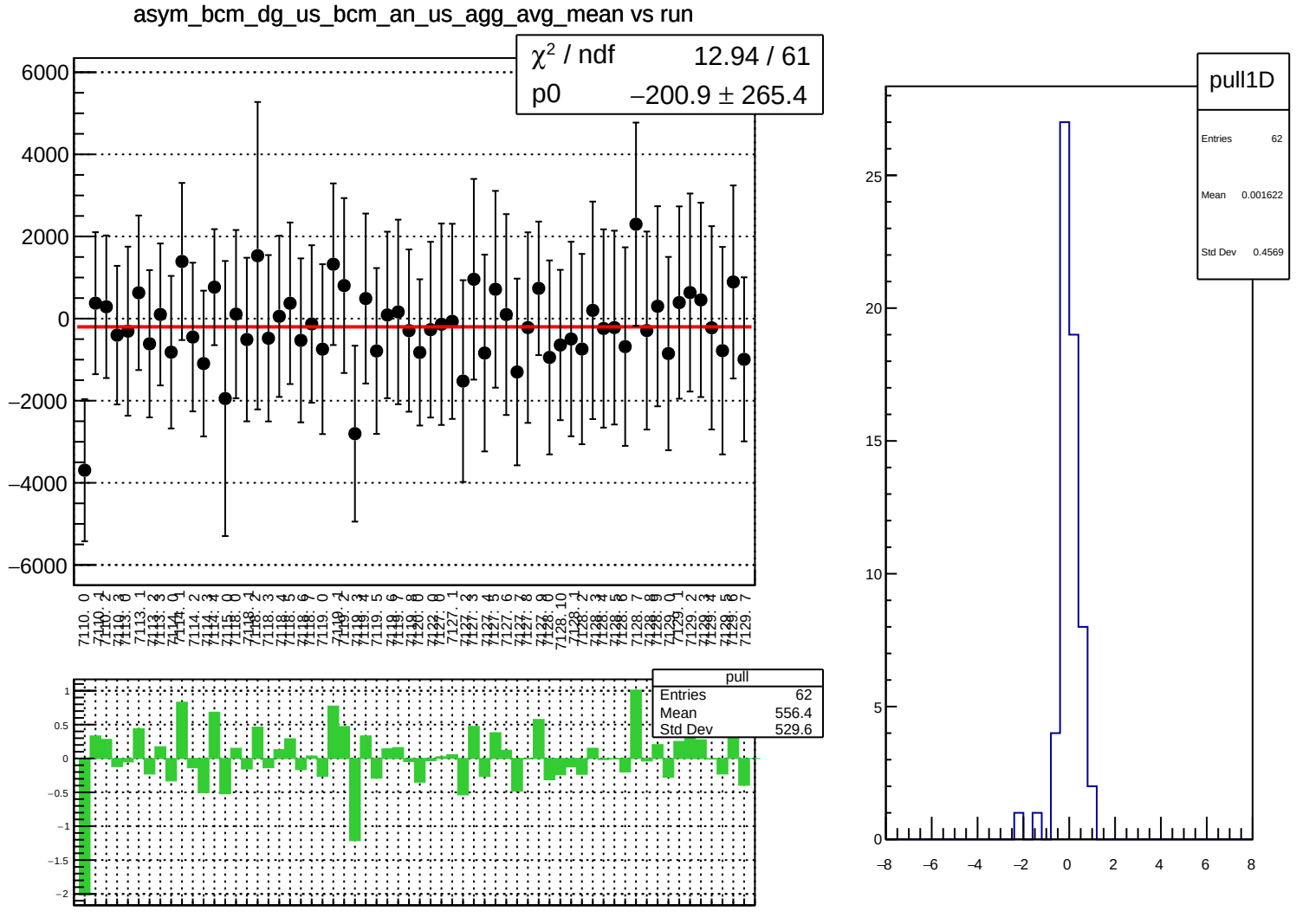

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.4 / 61
p0 −162.4 ± 265.3
pull
Entries 62
Mean 642.9
Std Dev 616.6

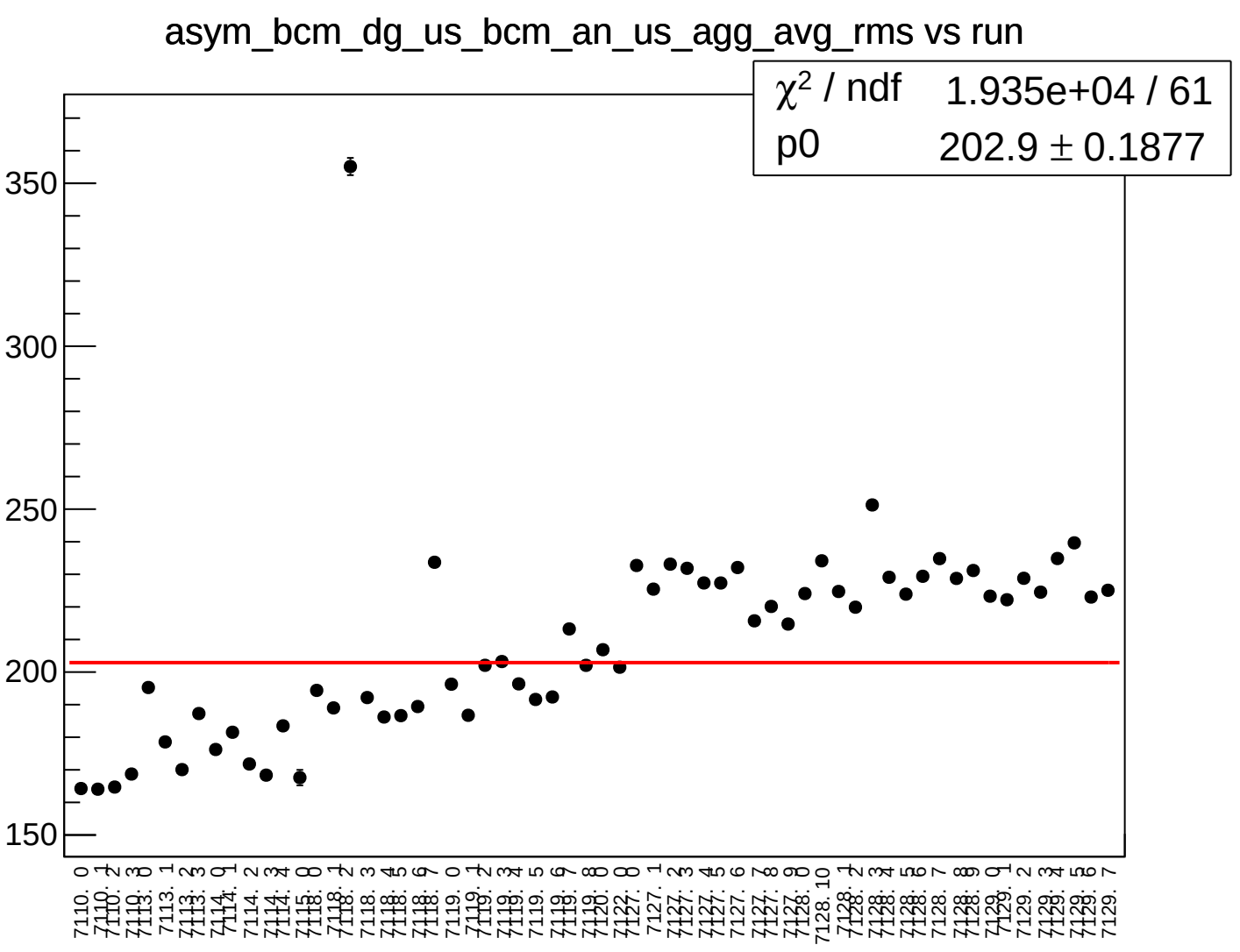

pull1D
Entries 62
Mean 0.00155
Std Dev 0.4472

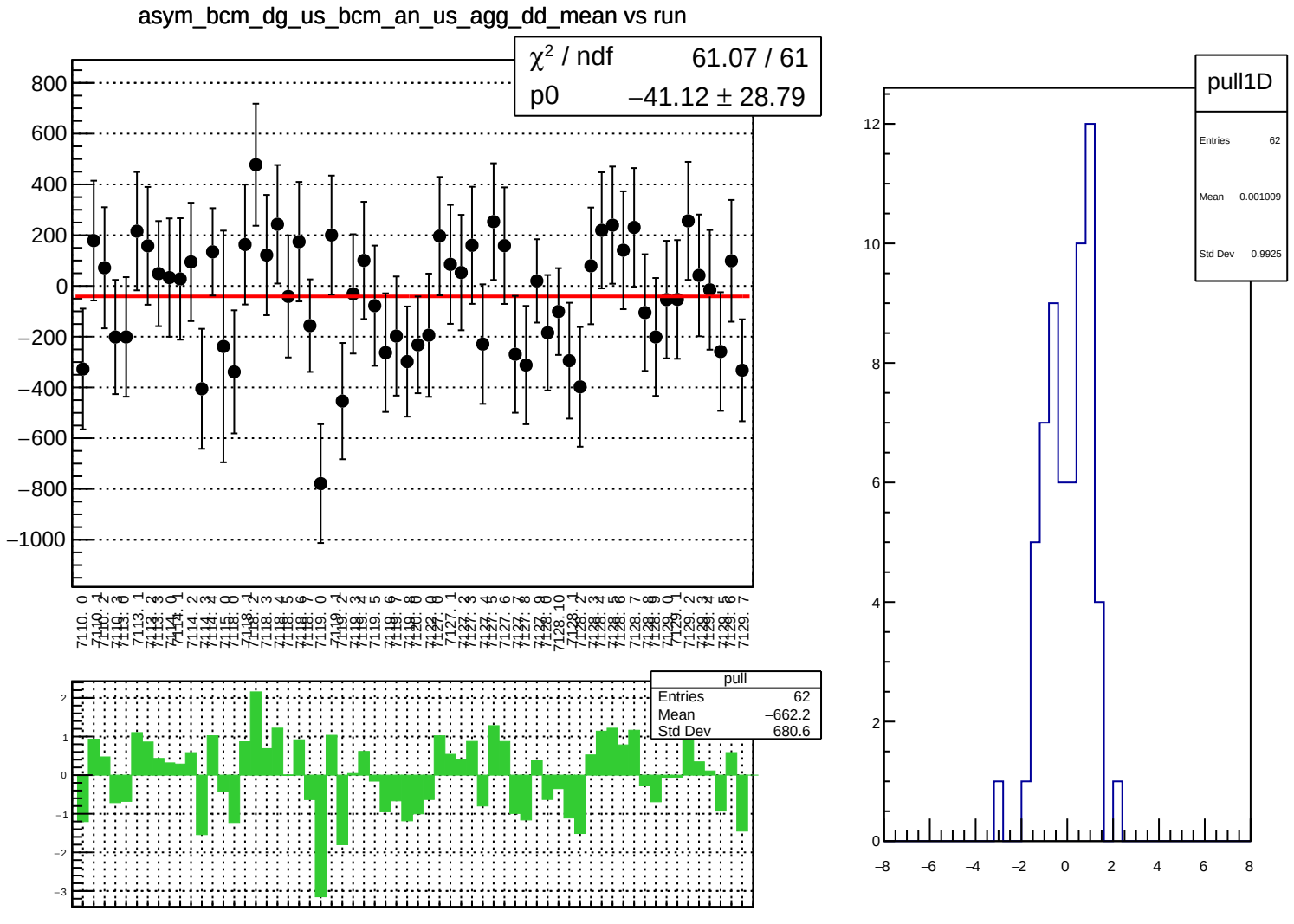

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.962e+04 / 61
p0 202.8 ± 0.1876
350
300
250
200
150
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 8
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

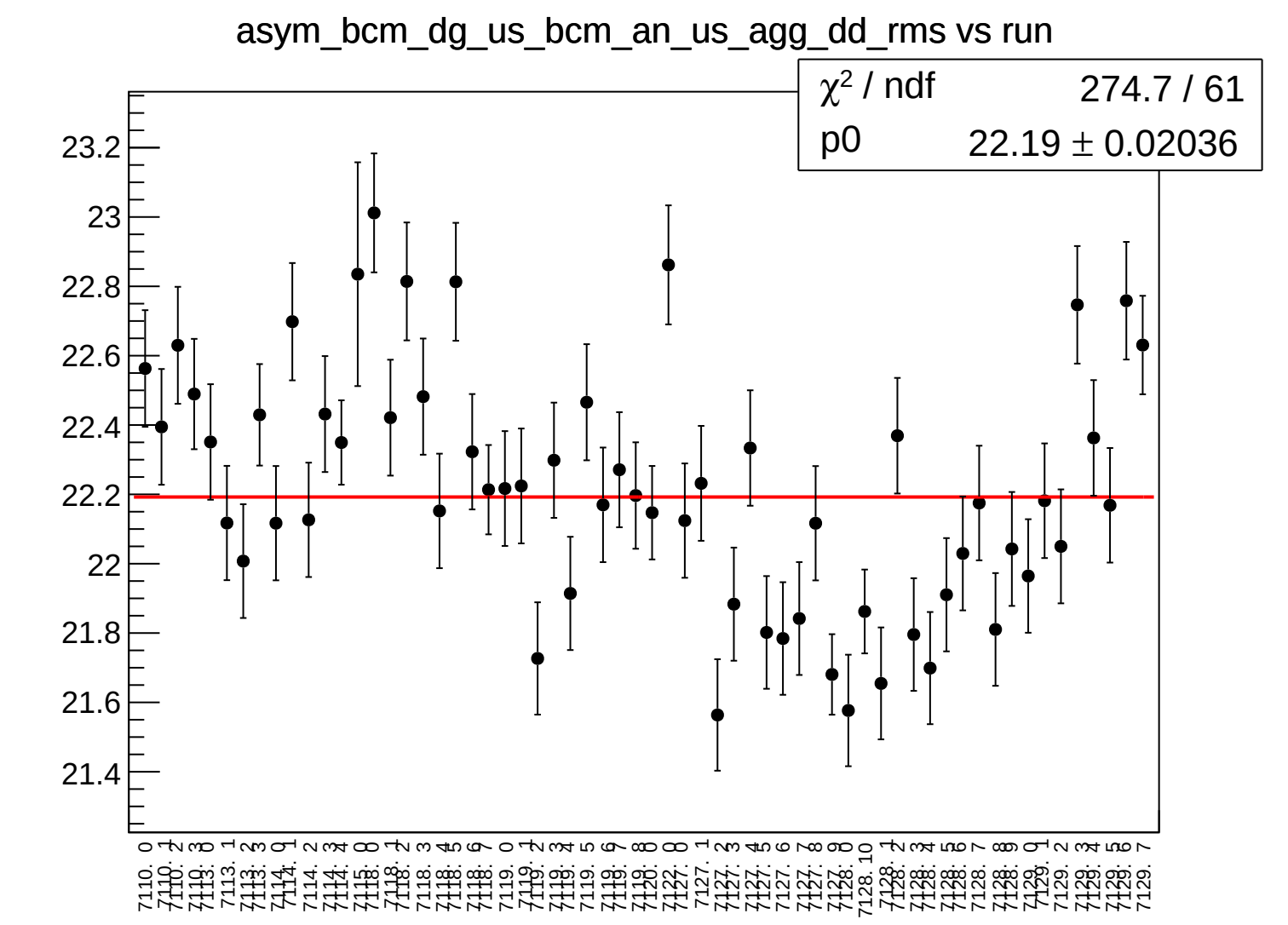

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 54.61 / 61
p0 21.29 ± 20.83
pull
Entries 62
Mean 139.7
Std Dev 116.5
pull1D
Entries 62
Mean −0.02314
Std Dev 0.9382

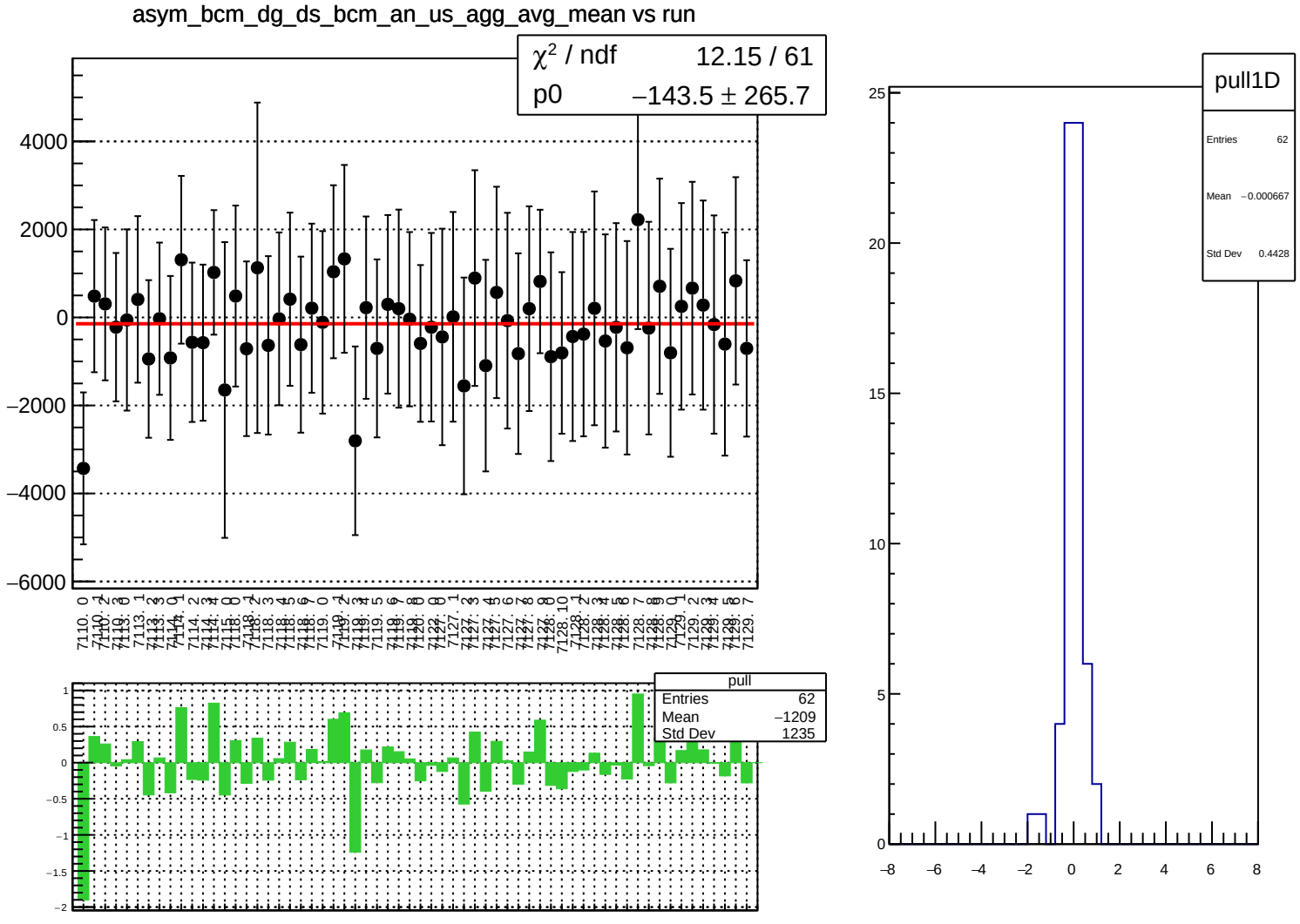

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 989 / 61
p0 16.05 ± 0.01473
17.5
17
16.5
16
15.5
15

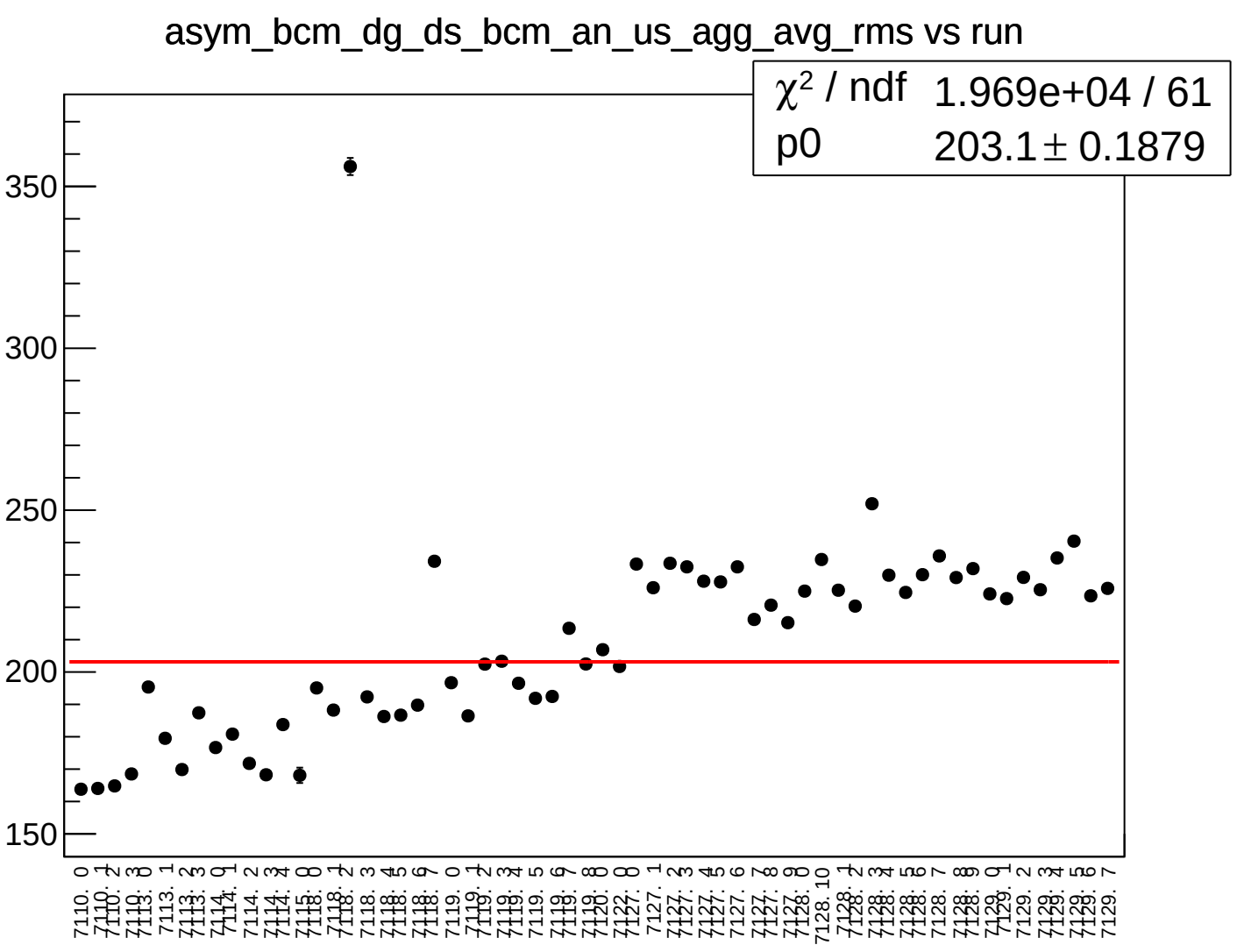

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 12.94 / 61
p0 −200.9 ± 265.4
pull
Entries 62
Mean 556.4
Std Dev 529.6
pull1D
Entries 62
Mean 0.001622
Std Dev 0.4569

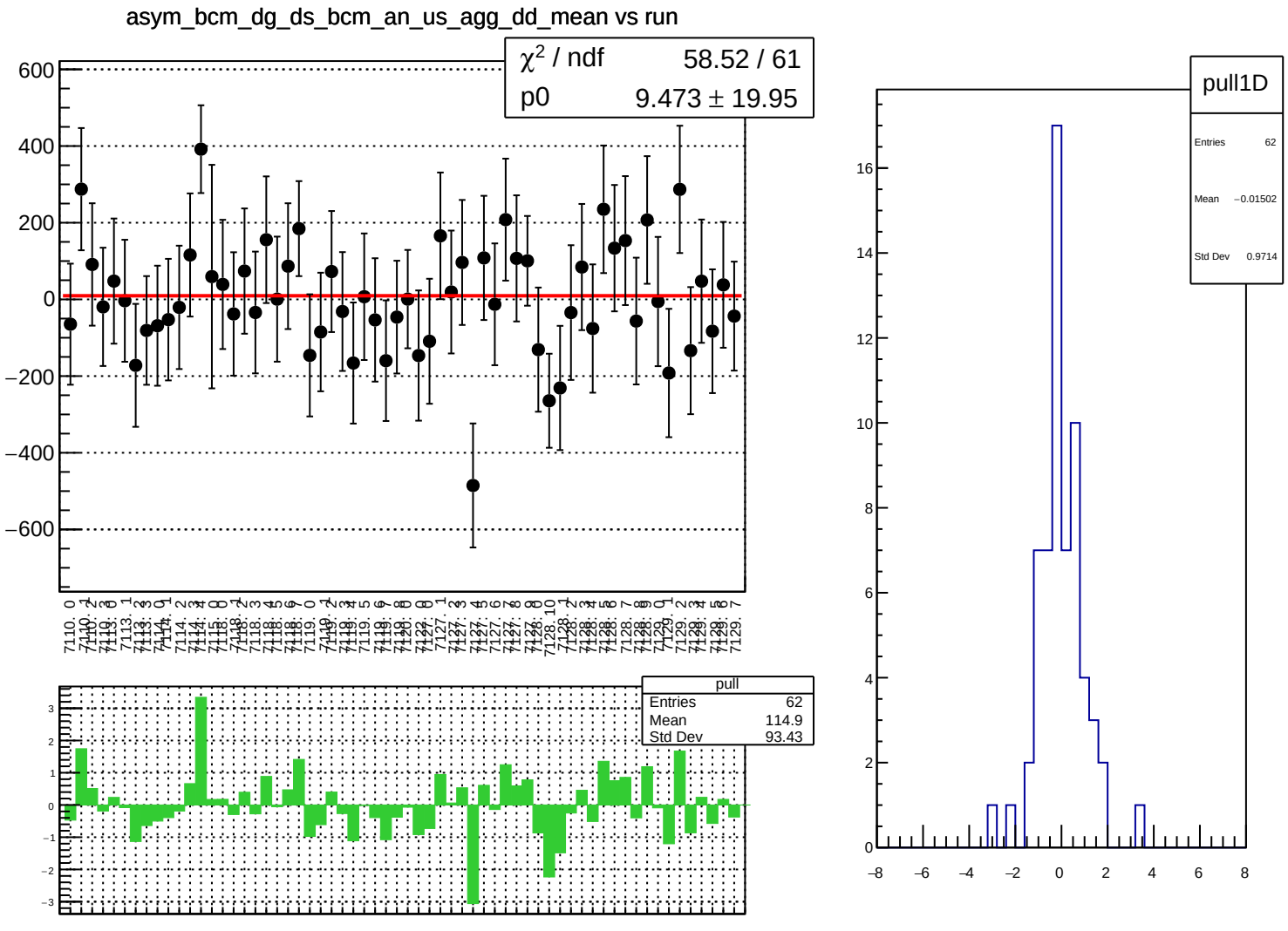

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.935e+04 / 61
p0 202.9 ± 0.1877
350
300
250
200
150
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

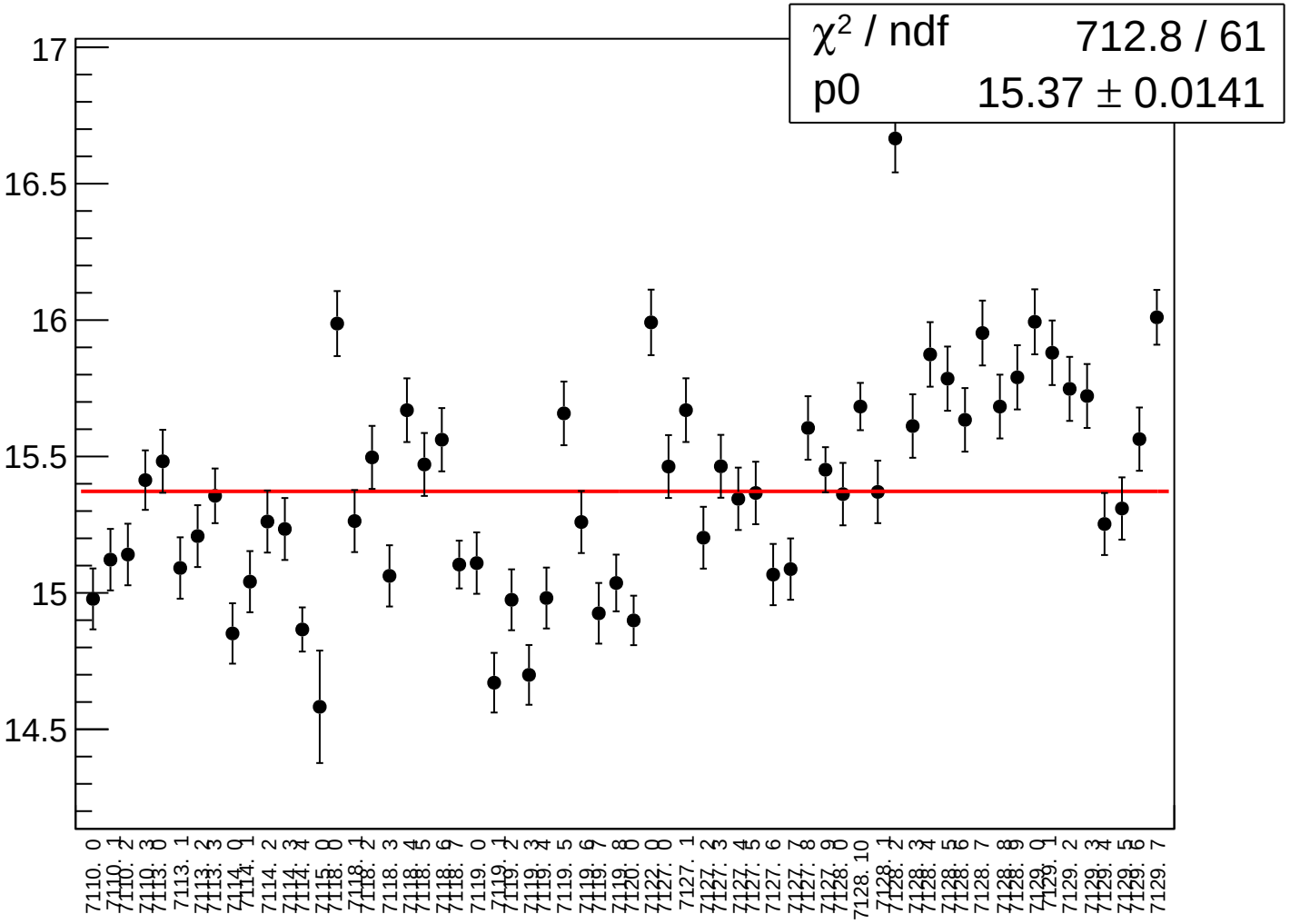

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 61.07 / 61
p0 −41.12 ± 28.79
pull
Entries 62
Mean −662.2
Std Dev 680.6
pull1D
Entries 62
Mean 0.001009
Std Dev 0.9925

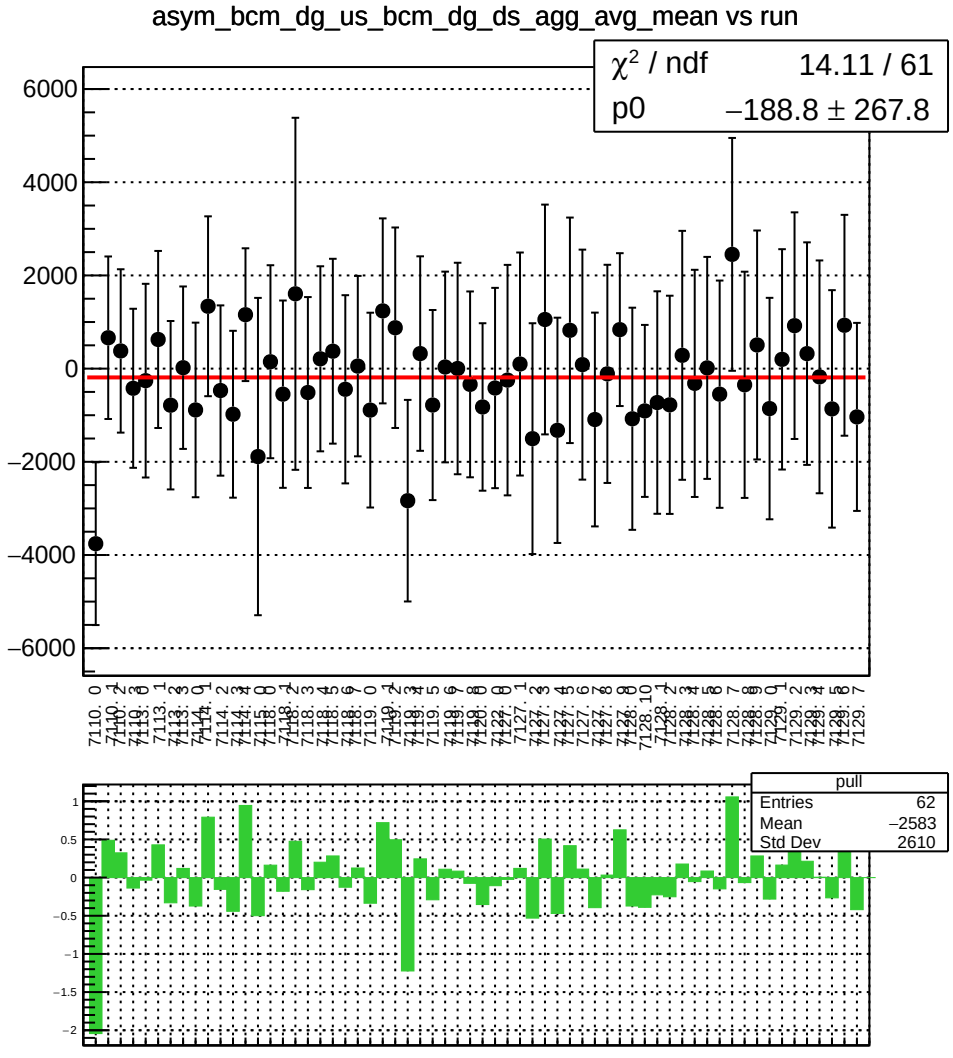

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 274.7 / 61
p0 22.19 ± 0.02036
23.2
23
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4

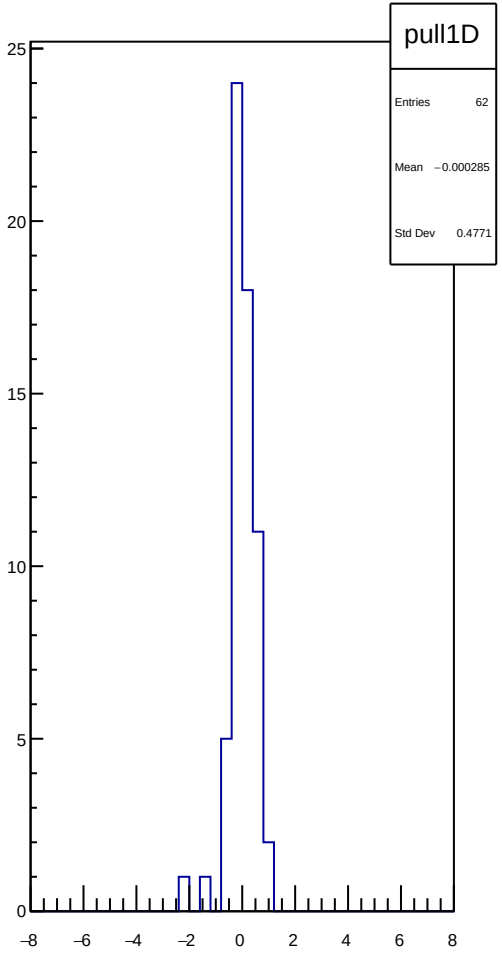

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 12.15 / 61
p0 −143.5 ± 265.7
pull
Entries 62
Mean −1209
Std Dev 1235
pull1D
Entries 62
Mean −0.000667
Std Dev 0.4428

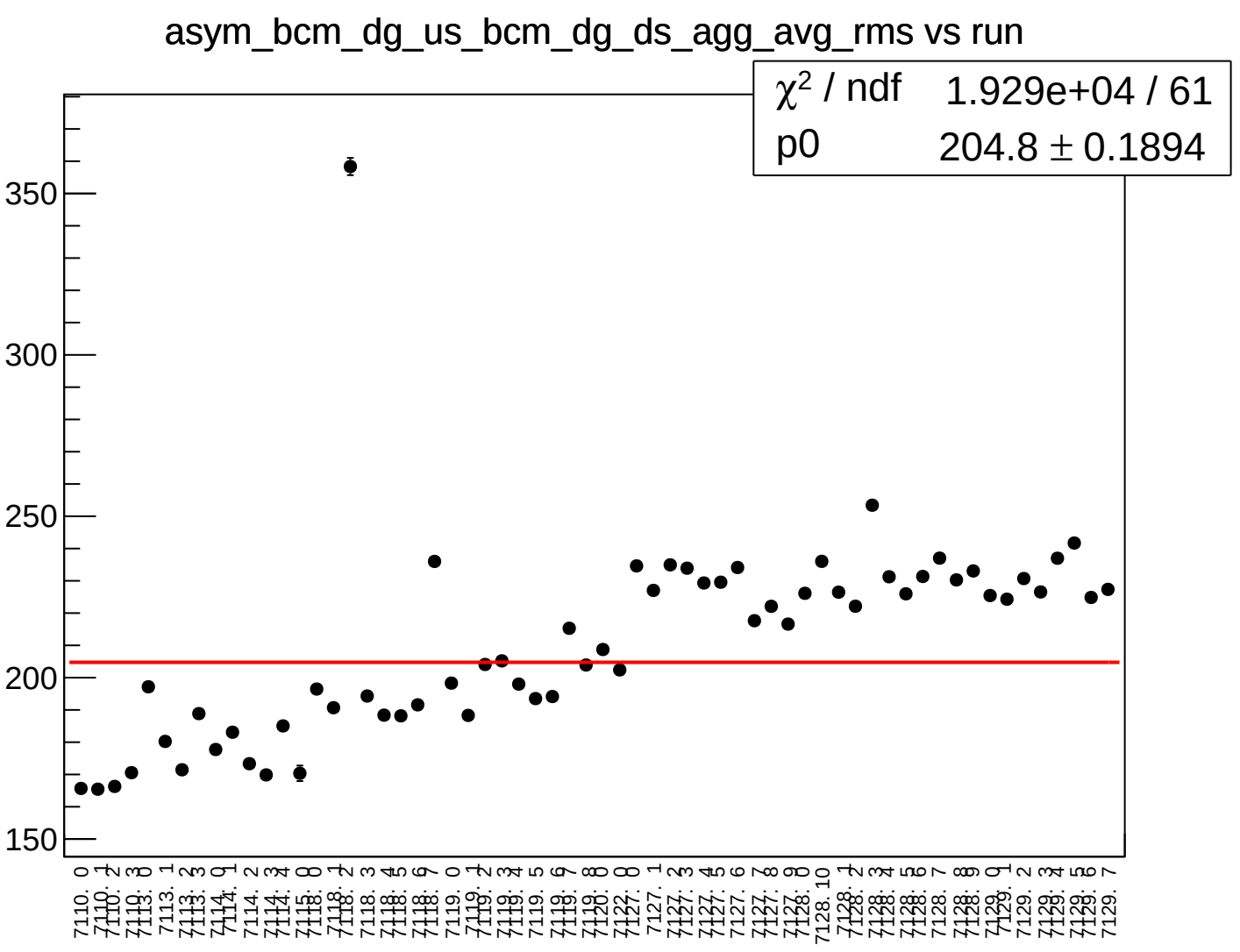

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.969e+04 / 61
p0 203.1 ± 0.1879
350
300
250
200
150
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

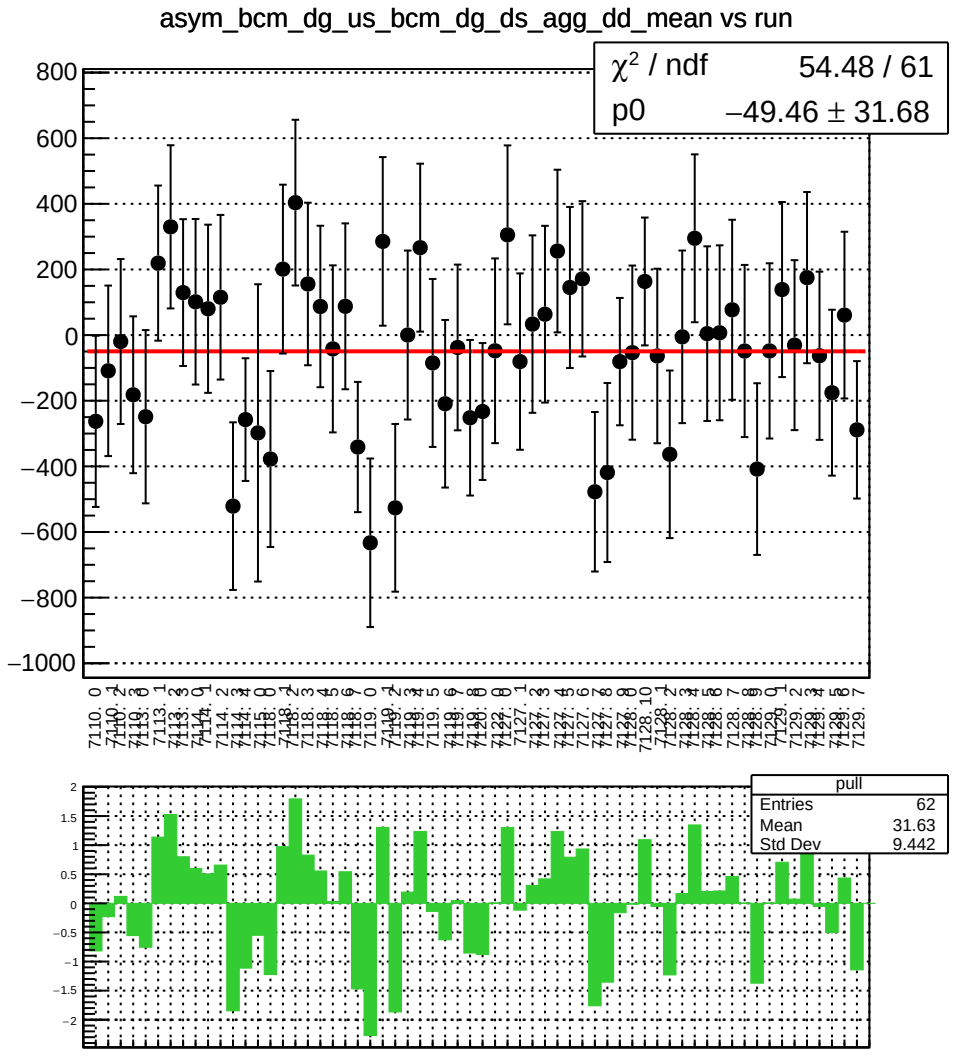

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 58.52 / 61
p0 9.473 ± 19.95
pull
Entries 62
Mean 114.9
Std Dev 93.43
pull1D
Entries 62
Mean −0.01502
Std Dev 0.9714

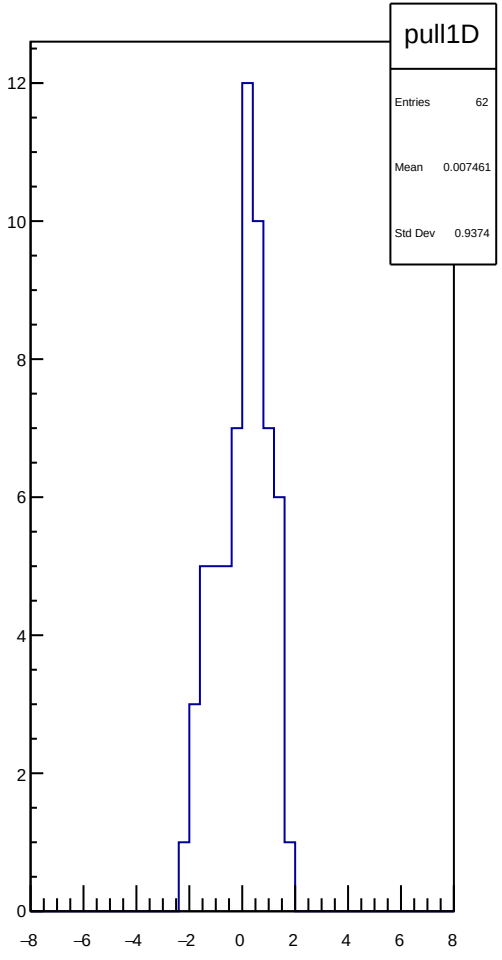

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 712.8 / 61
p0 15.37 ± 0.0141
17
16.5
16
15.5
15
14.5

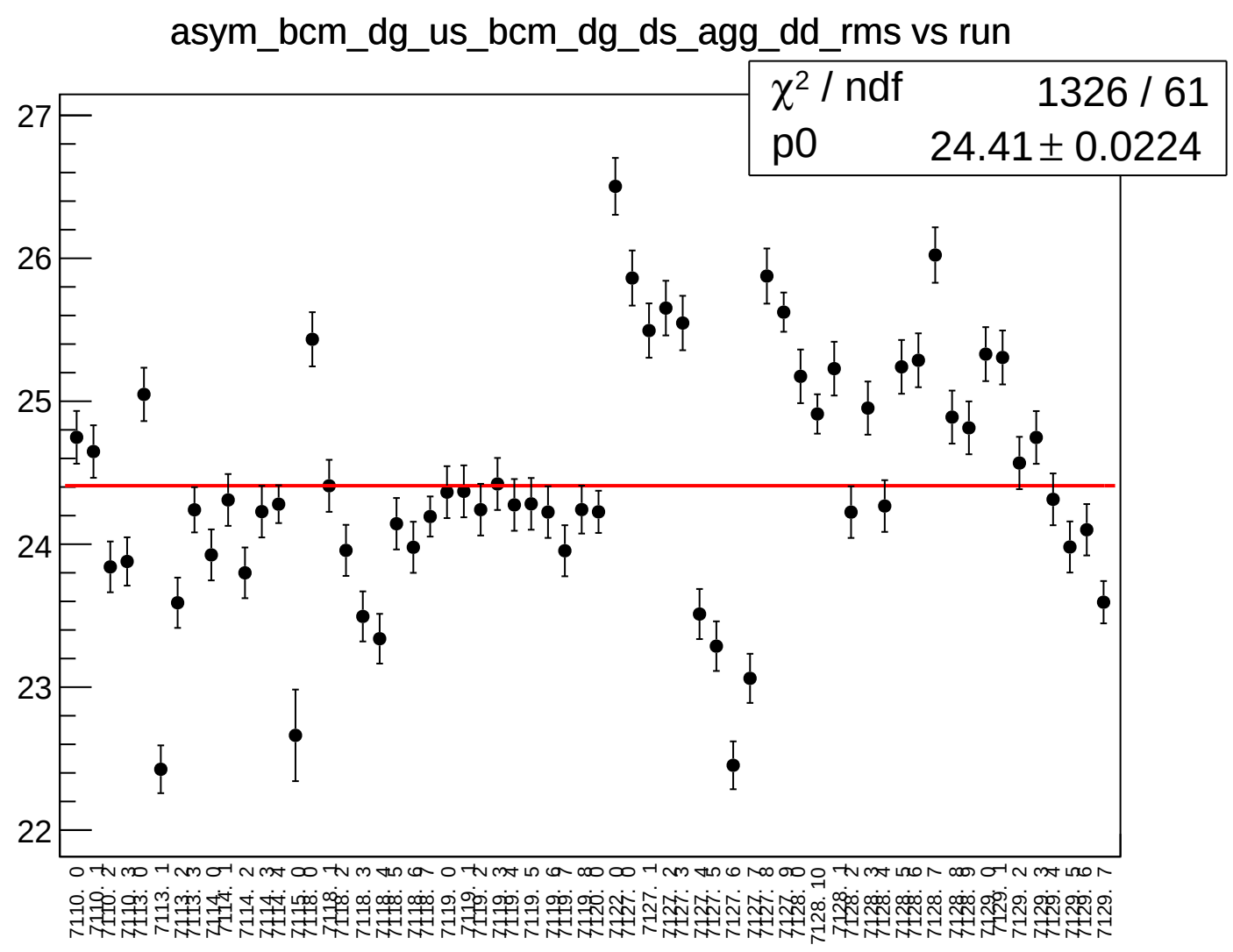

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 14.11 / 61
p0 −188.8 ± 267.8
pull
Entries 62
Mean −2583
Std Dev 2610

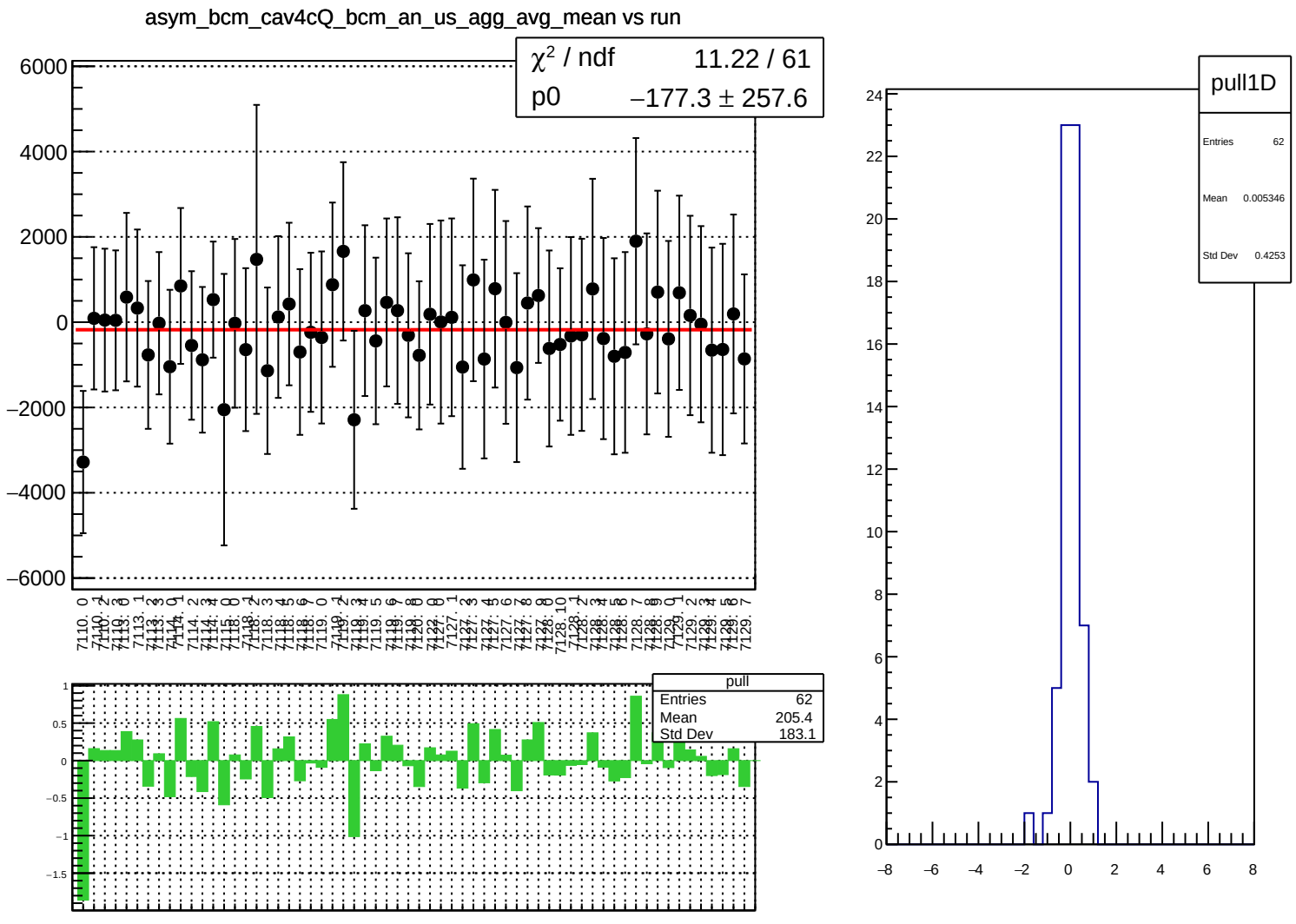

pull1D
Entries 62
Mean −0.000285
Std Dev 0.4771

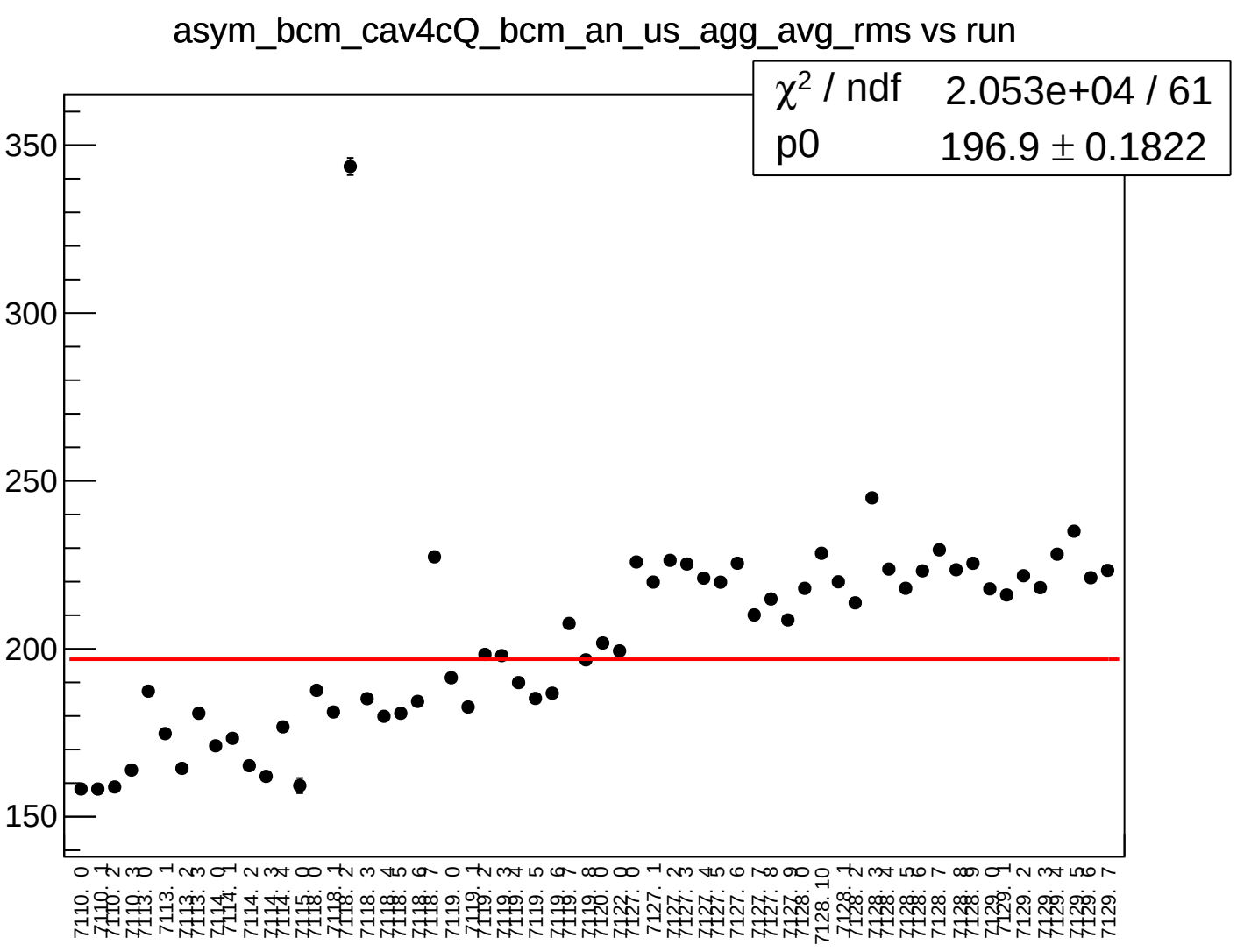

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.929e+04 / 61
p0 204.8 ± 0.1894
350
300
250
200
150
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

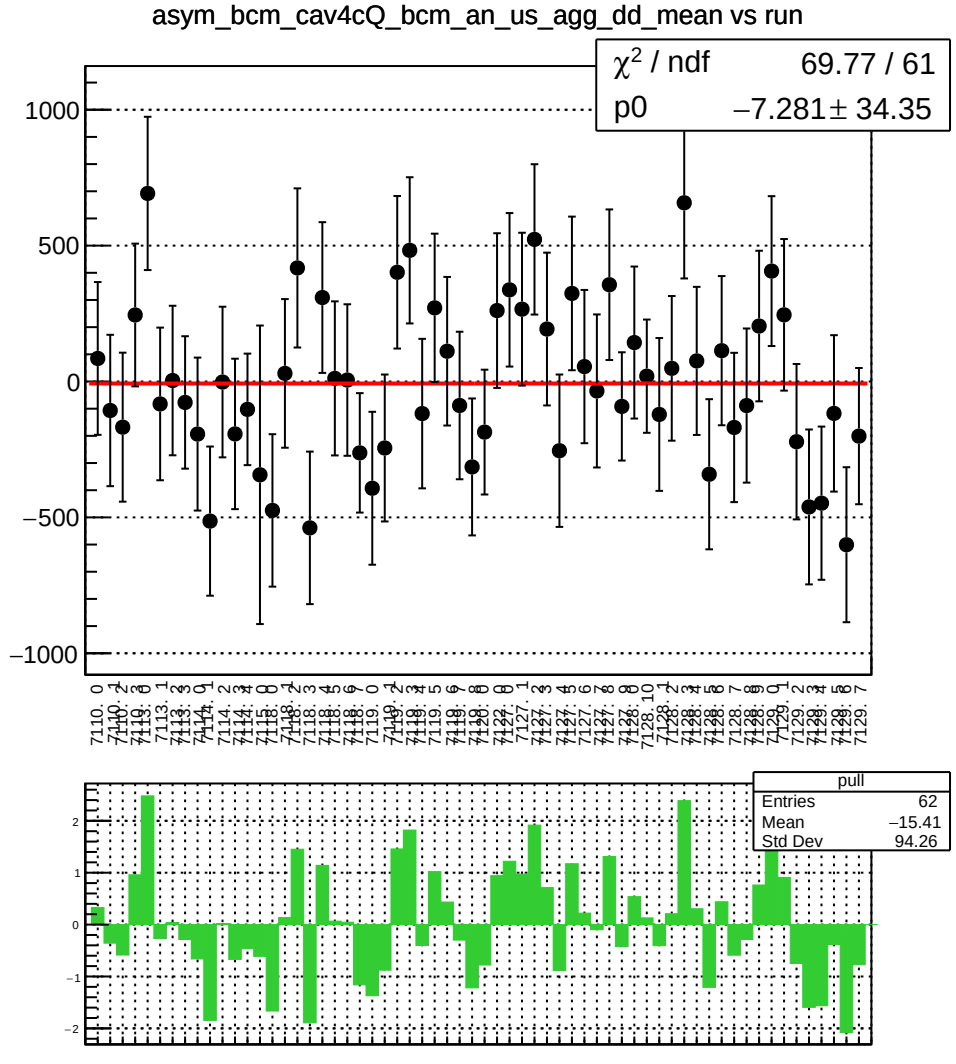

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 54.48 / 61
p0 −49.46 ± 31.68
pull
Entries 62
Mean 31.63
Std Dev 9.442

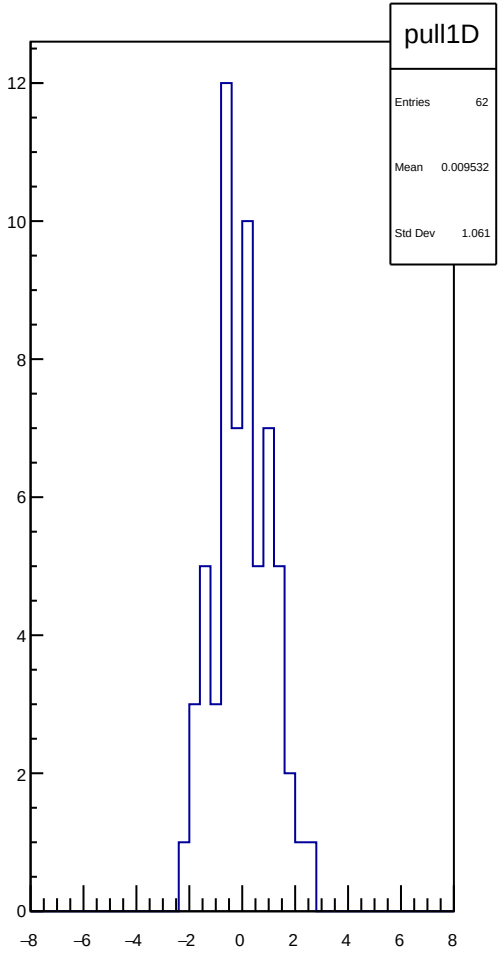

pull1D
Entries 62
Mean 0.007461
Std Dev 0.9374

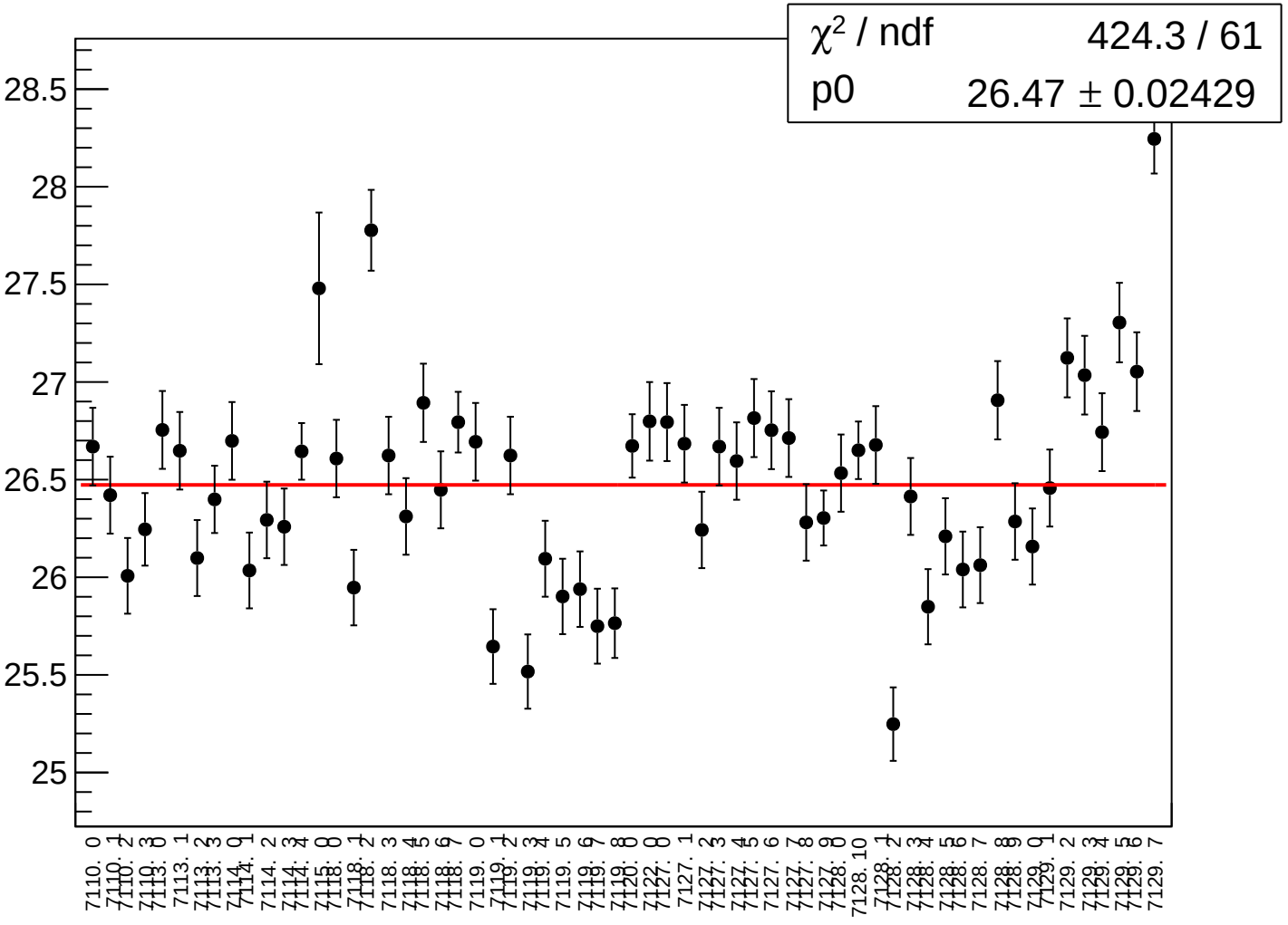

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1326 / 61
p0 24.41 ± 0.0224
27
26
25
24
23
22
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

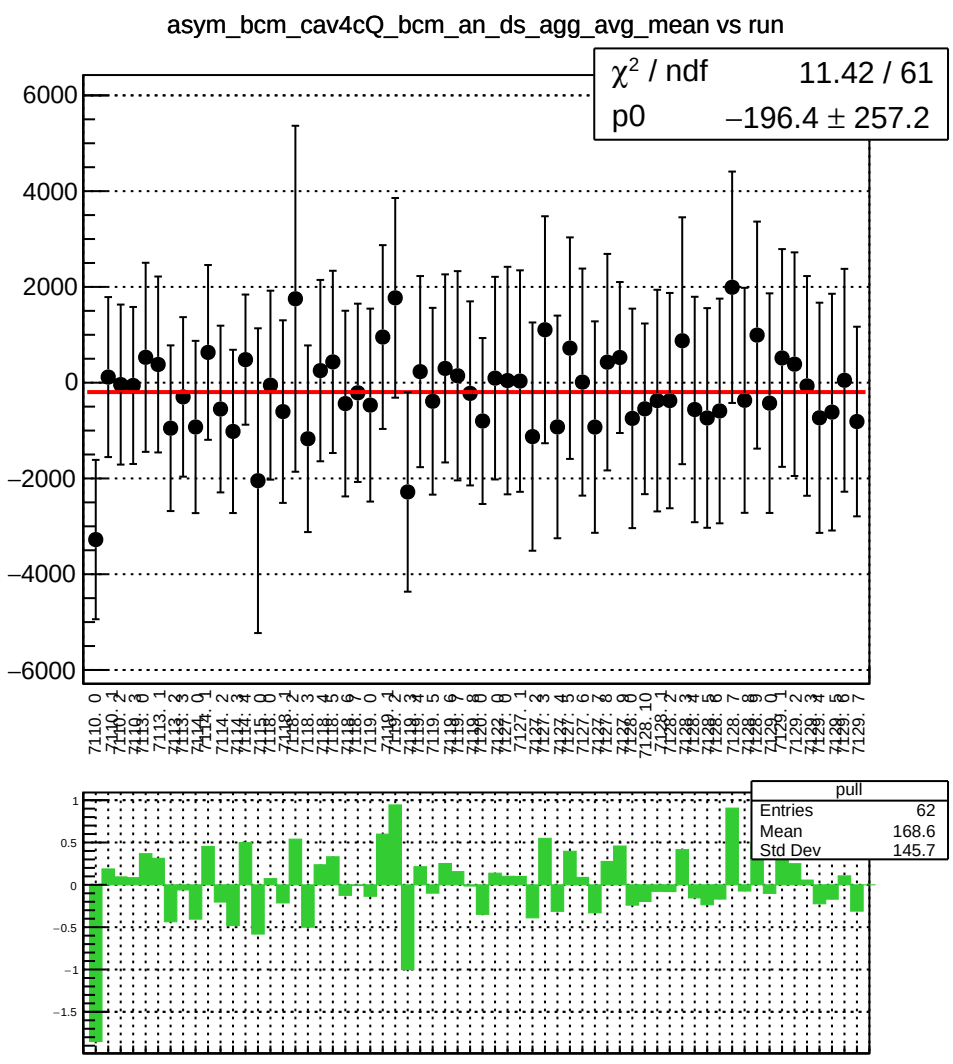

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 11.22 / 61
p0 −177.3 ± 257.6
pull
Entries 62
Mean 205.4
Std Dev 183.1
pull1D
Entries 62
Mean 0.005346
Std Dev 0.4253

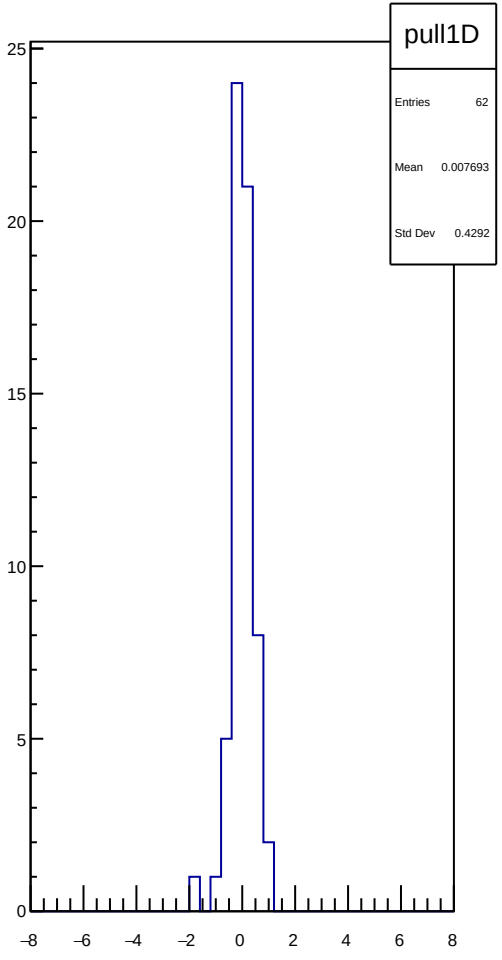

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ^2 / ndf 2.053e+04 / 61
p0 196.9 ± 0.1822
350
300
250
200
150
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

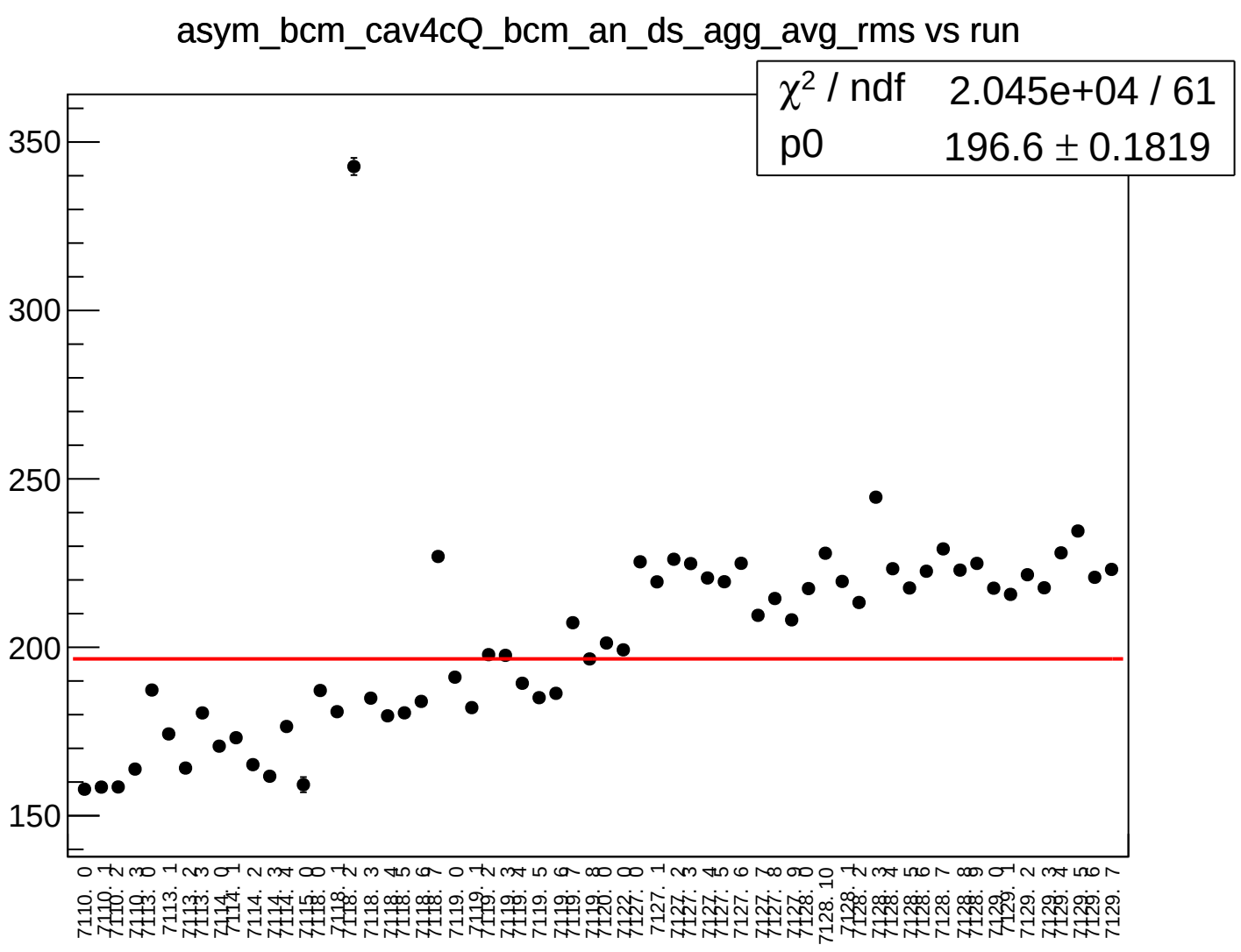

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 69.77 / 61
p0 −7.281 ± 34.35
1000
500
0
−500
−1000
pull
Entries 62
Mean −15.41
Std Dev 94.26
2
1
0
−1
−2

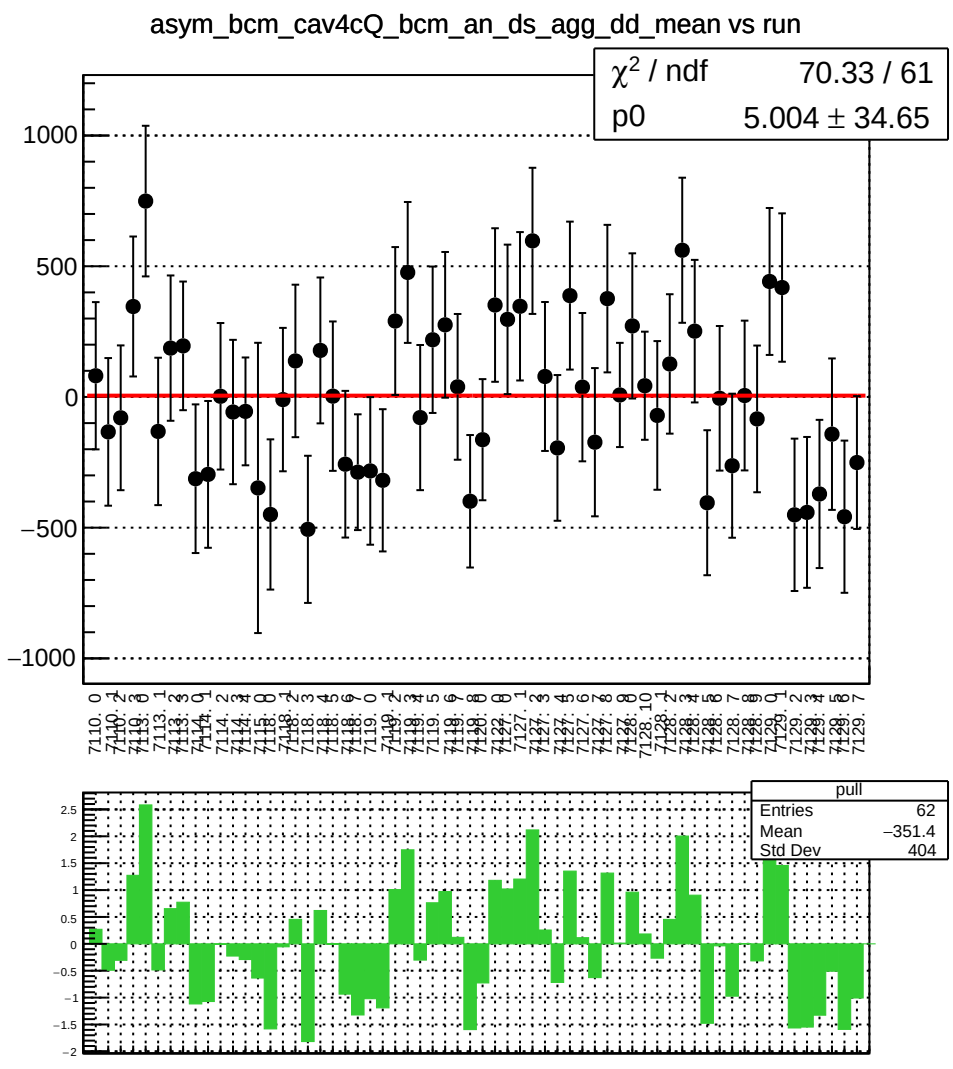

pull1D
Entries 62
Mean 0.009532
Std Dev 1.061
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

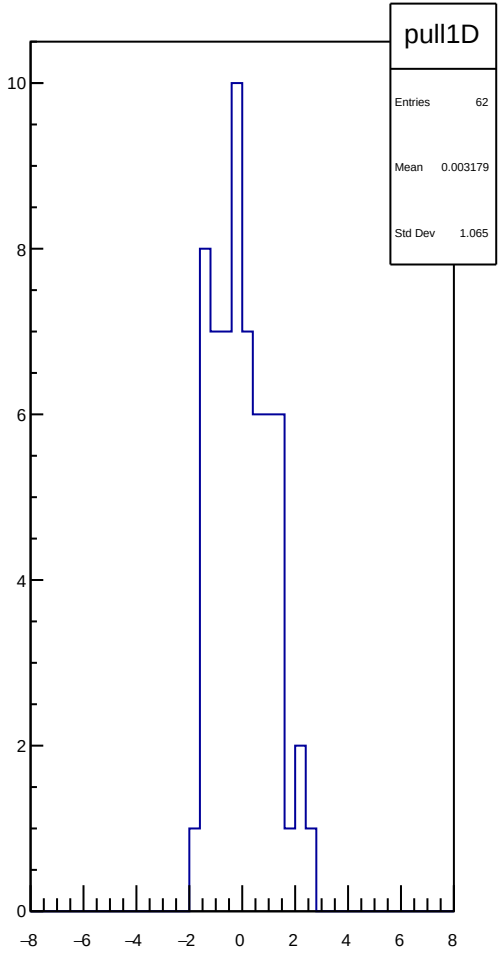

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 424.3 / 61
p0 26.47 ± 0.02429
28.5
28
27.5
27
26.5
26
25.5
25

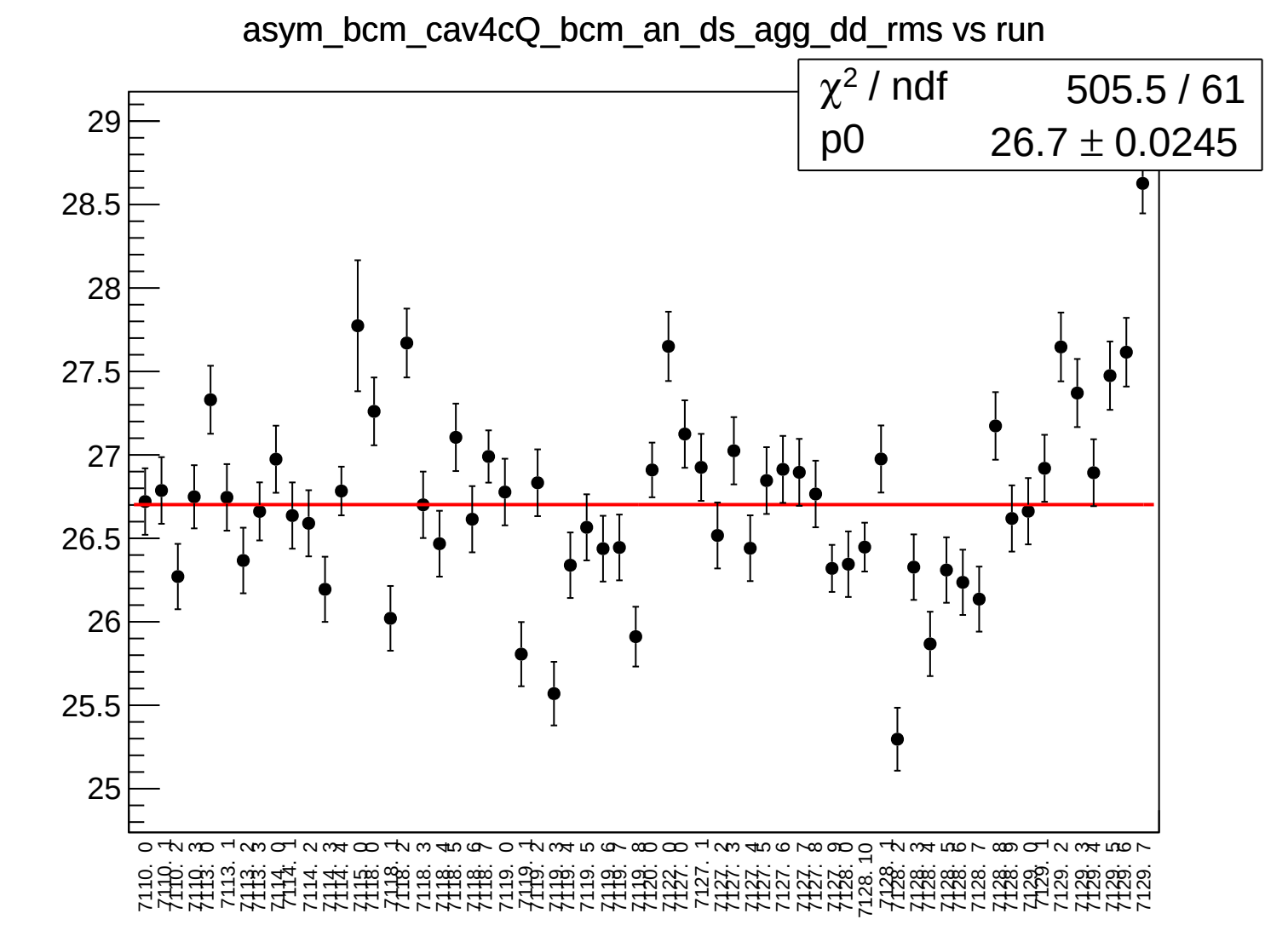

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.42 / 61
p0 −196.4 ± 257.2
pull
Entries 62
Mean 168.6
Std Dev 145.7

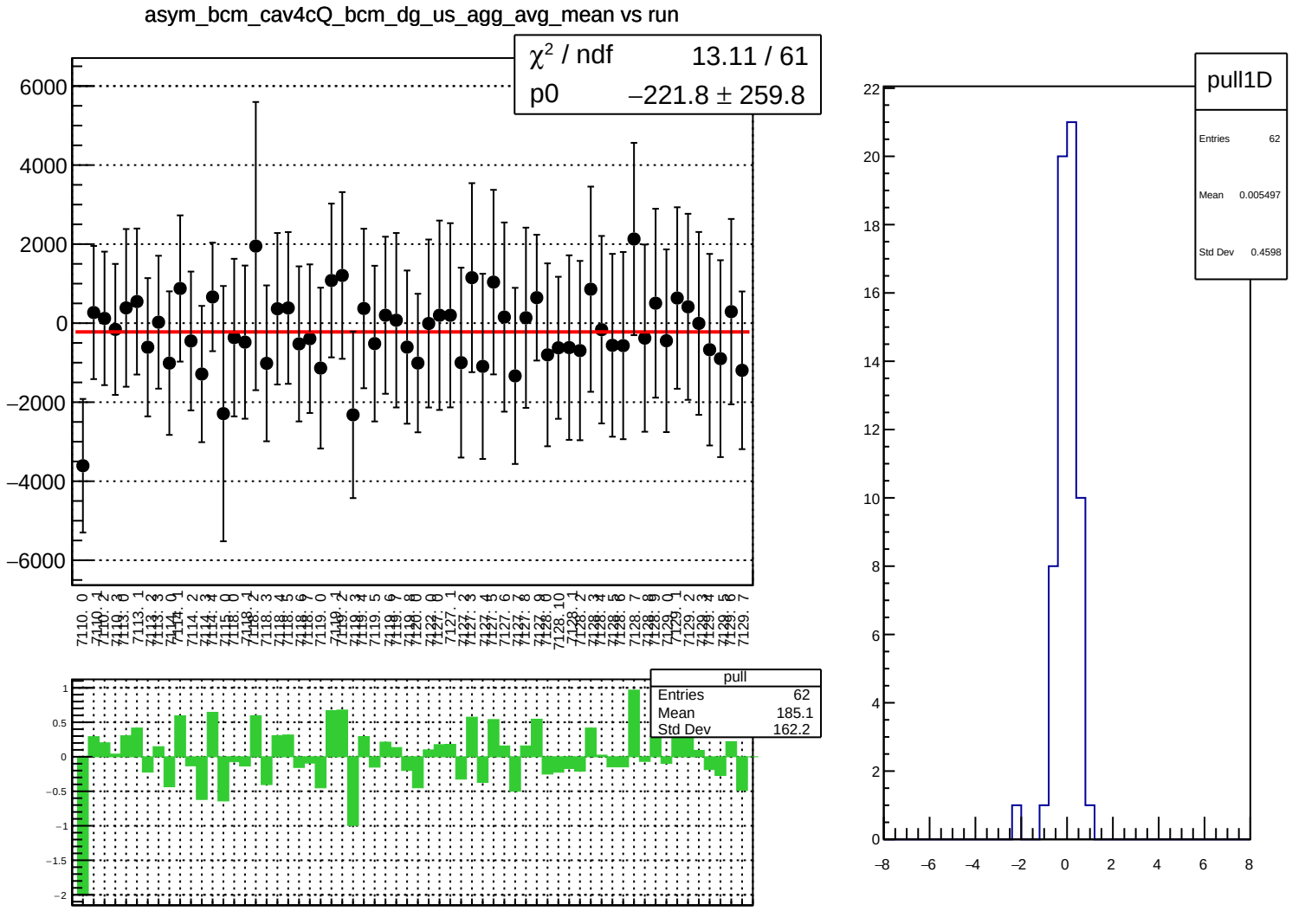

pull1D
Entries 62
Mean 0.007693
Std Dev 0.4292

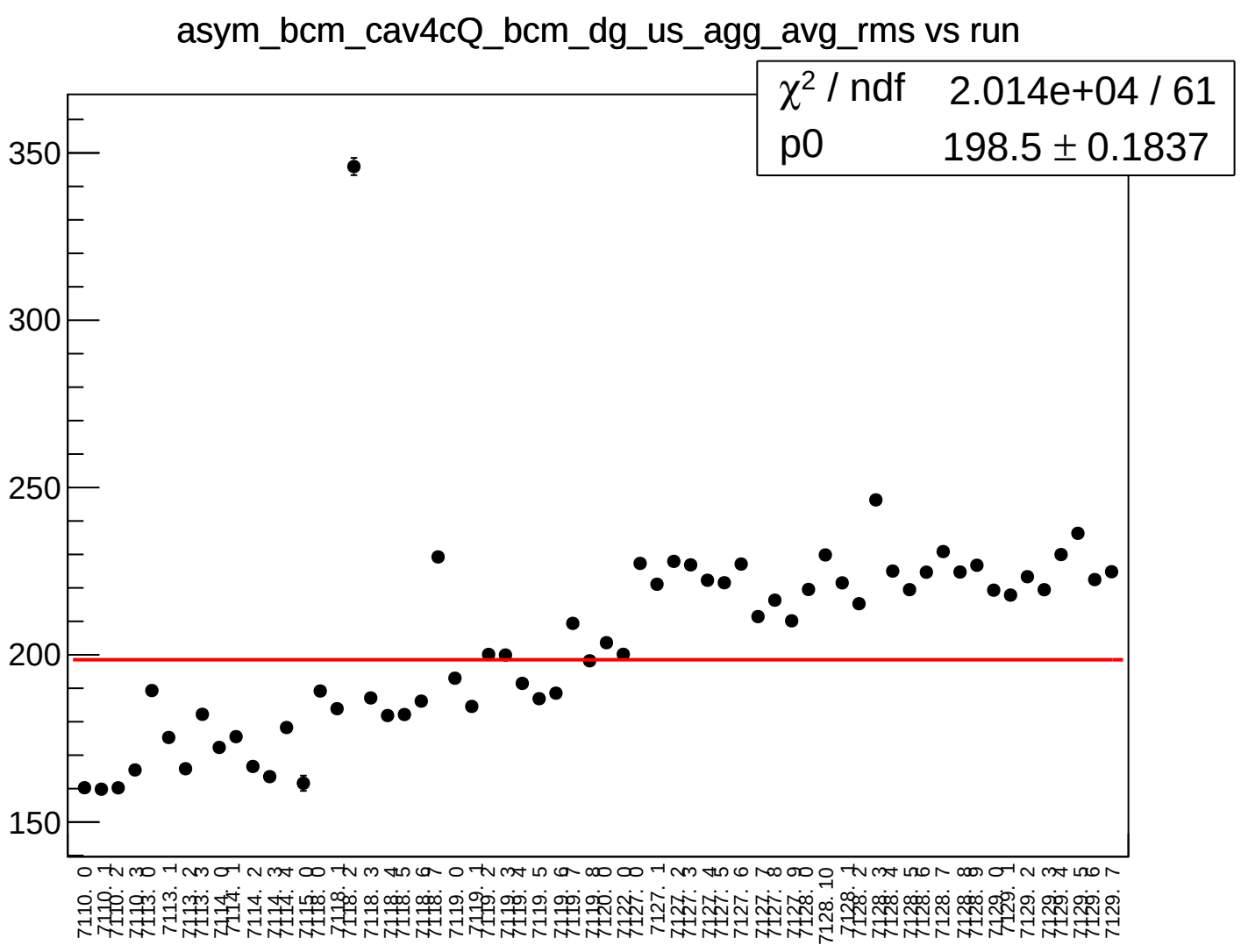

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ^2 / ndf 2.045e+04 / 61
p0 196.6 ± 0.1819
350
300
250
200
150
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

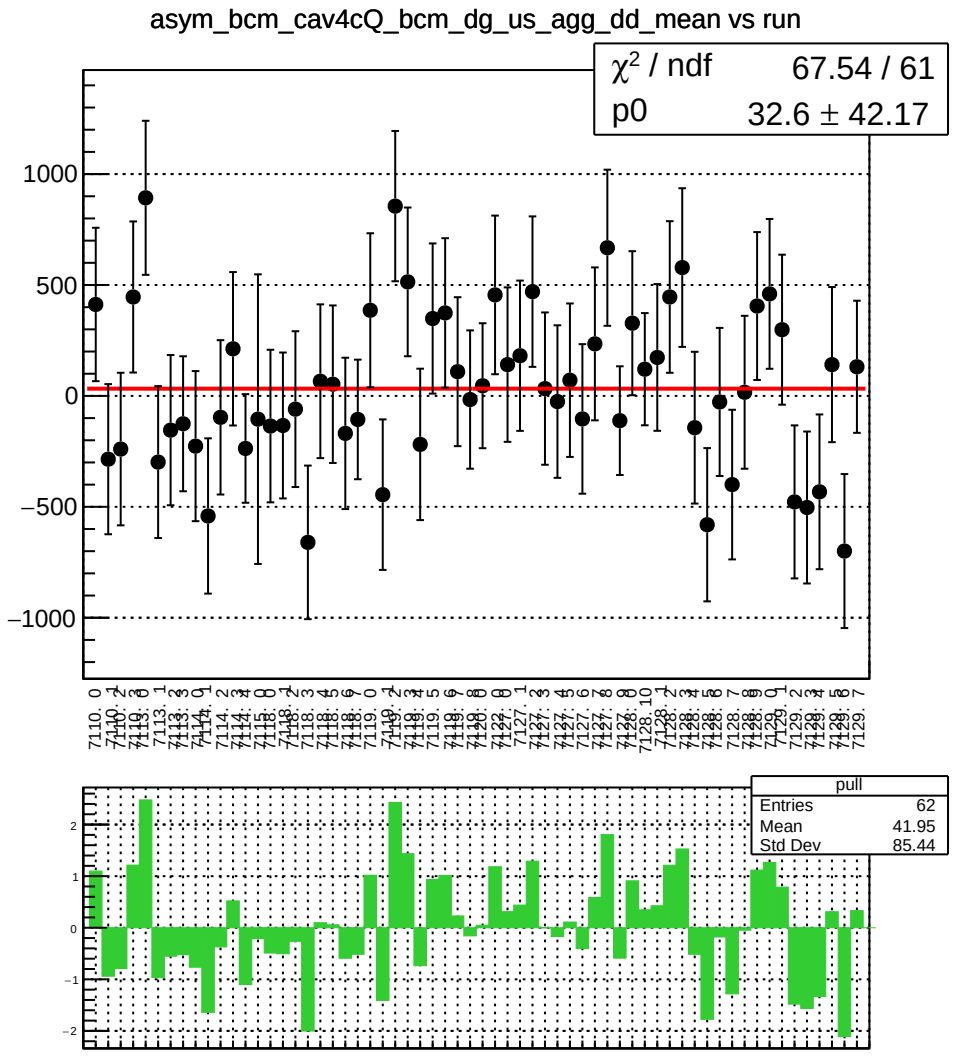

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 70.33 / 61
p0 5.004 ± 34.65
1000
500
0
−500
−1000
pull
Entries 62
Mean −351.4
Std Dev 404
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

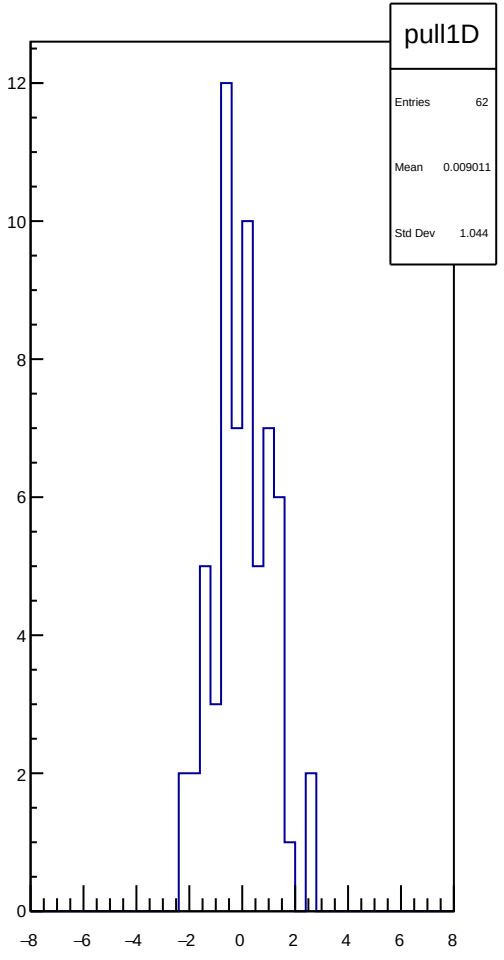

pull1D
Entries 62
Mean 0.003179
Std Dev 1.065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

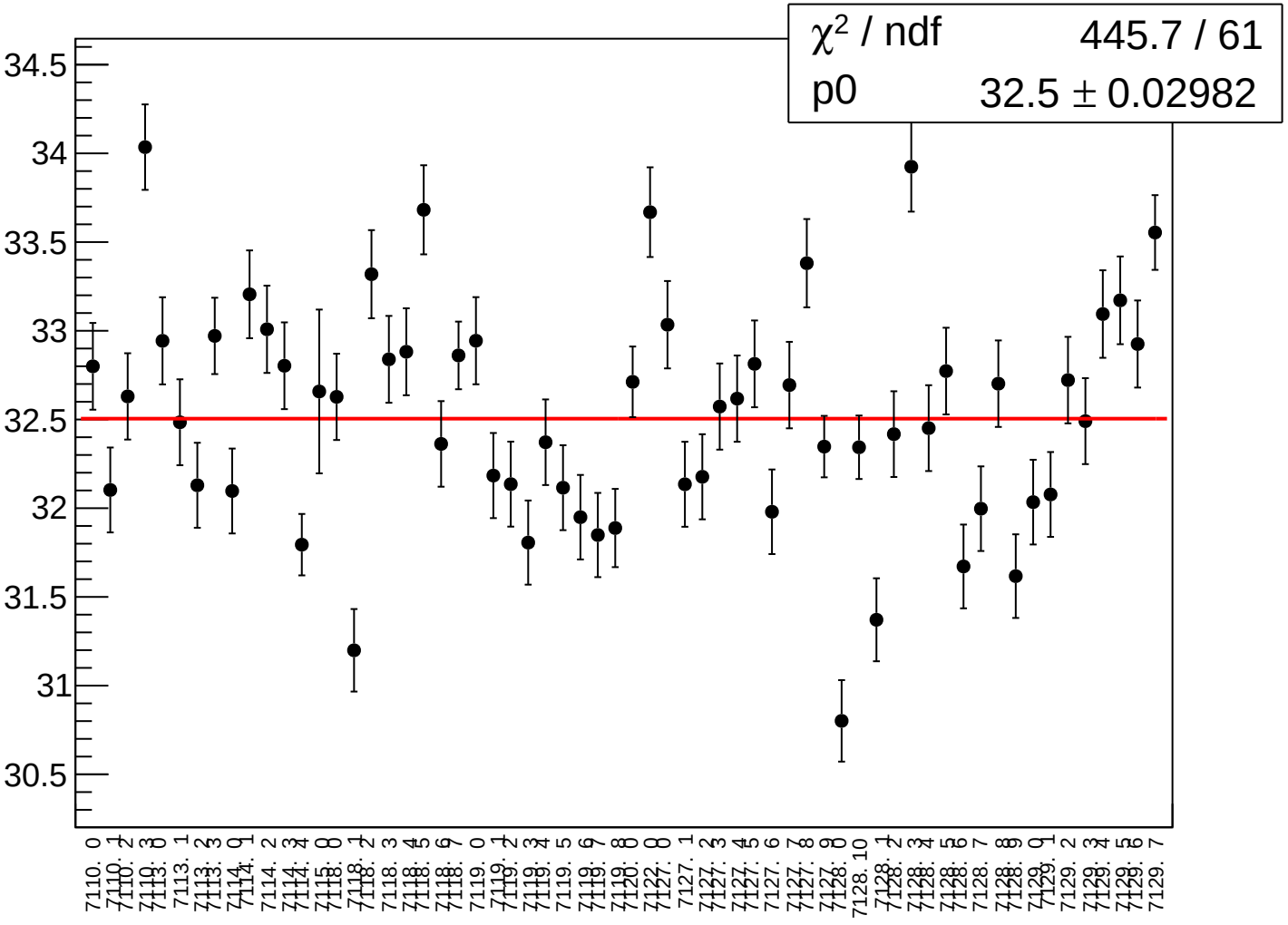

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 505.5 / 61
p0 26.7 ± 0.0245
29
28.5
28
27.5
27
26.5
26
25.5
25
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

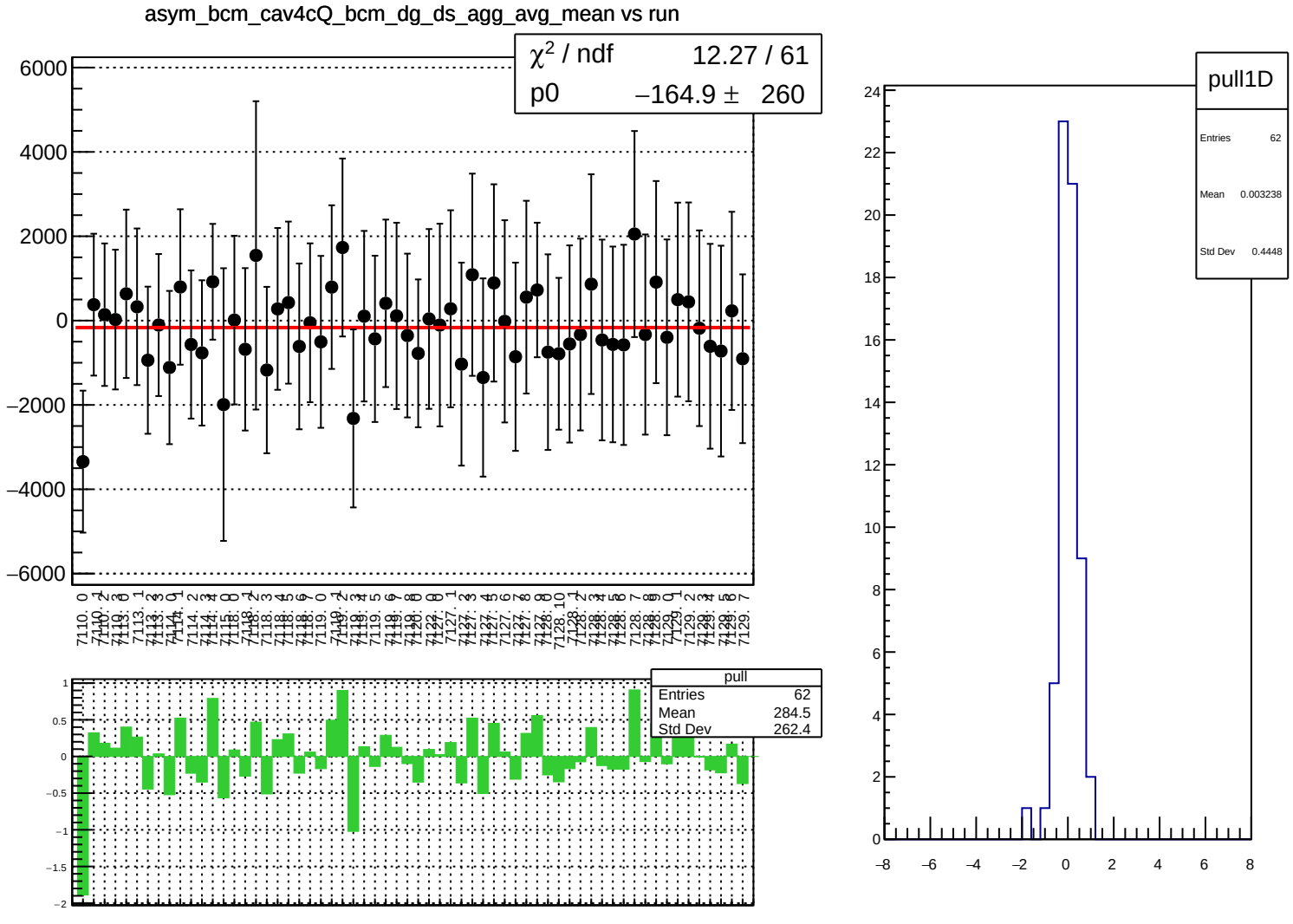

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 13.11 / 61
p0 −221.8 ± 259.8
pull
Entries 62
Mean 185.1
Std Dev 162.2
pull1D
Entries 62
Mean 0.005497
Std Dev 0.4598

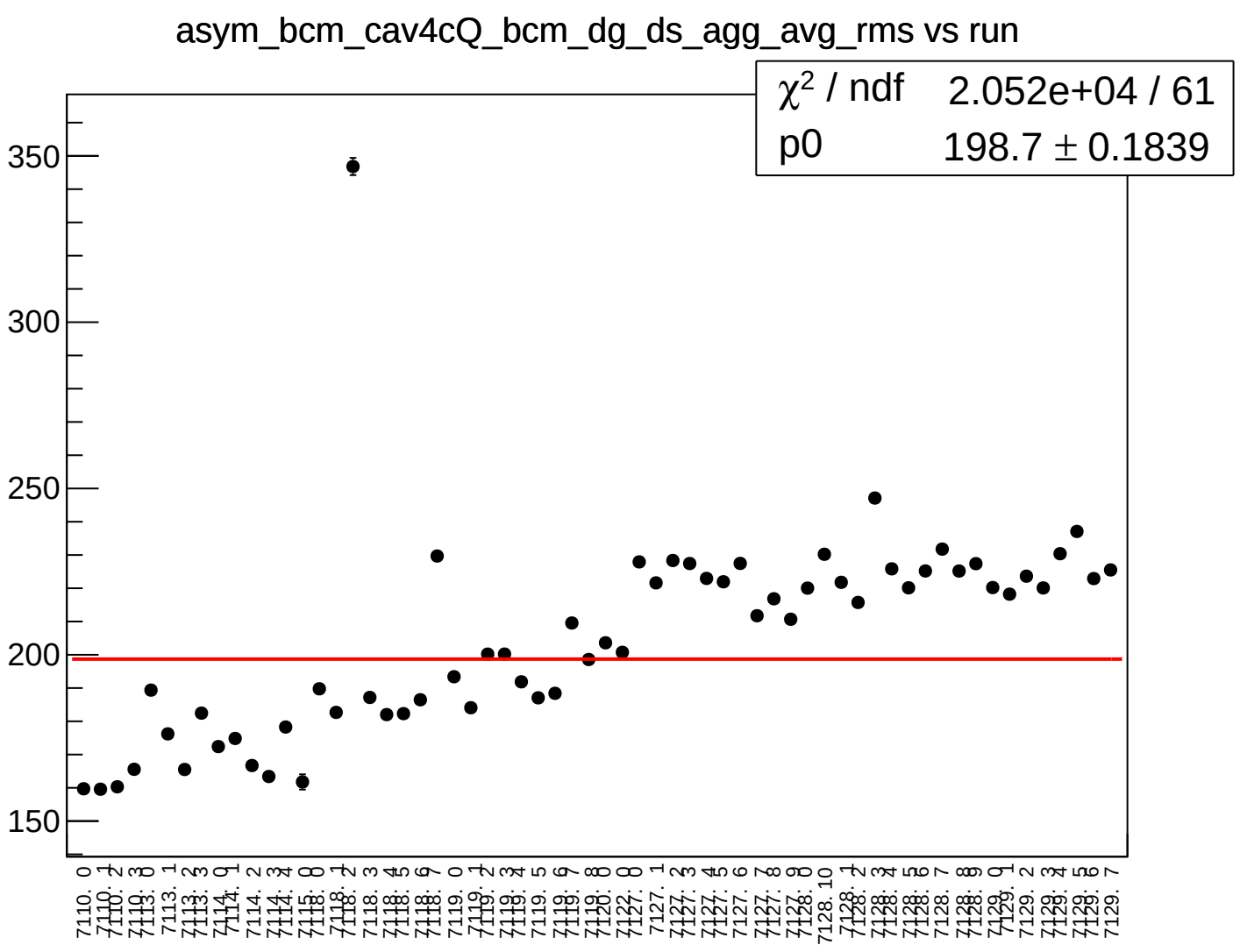

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ^2 / ndf 2.014e+04 / 61
p0 198.5 ± 0.1837
350
300
250
200
150
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

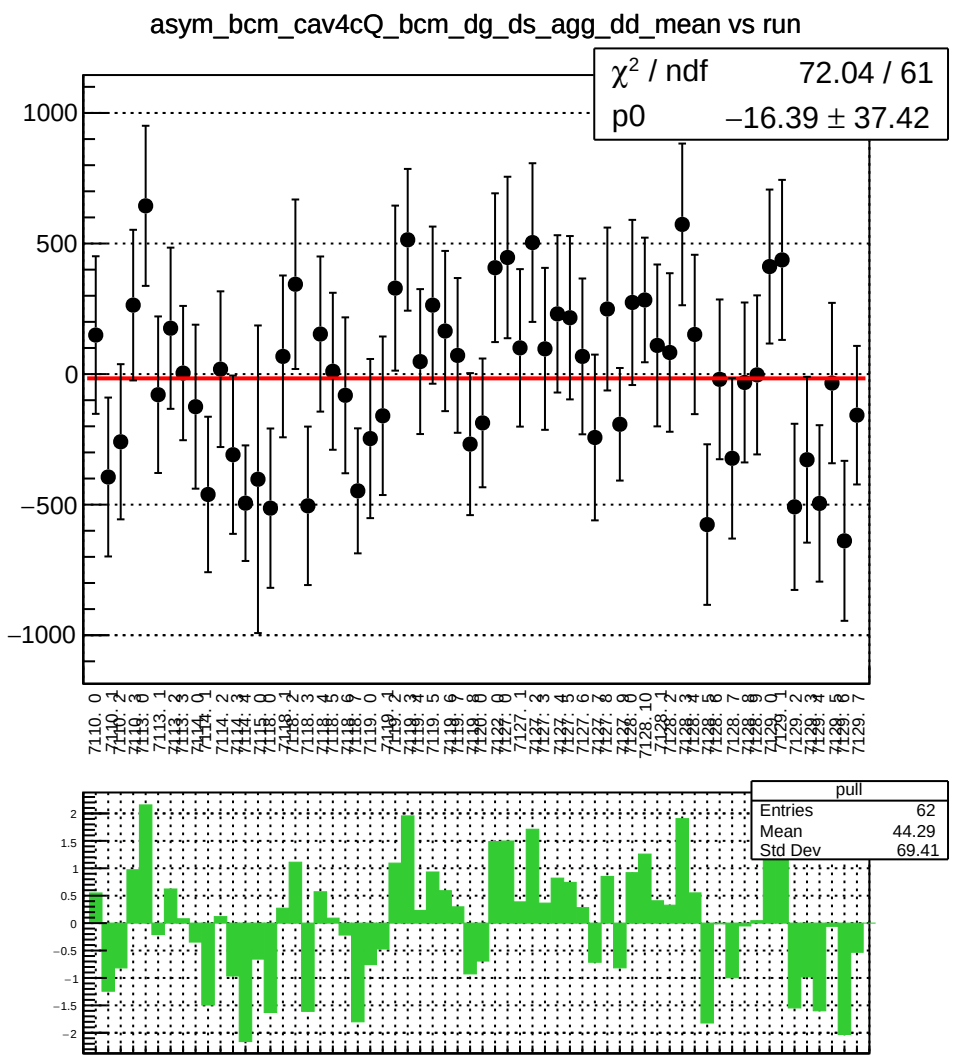

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 67.54 / 61
p0 32.6 ± 42.17
pull
Entries 62
Mean 41.95
Std Dev 85.44

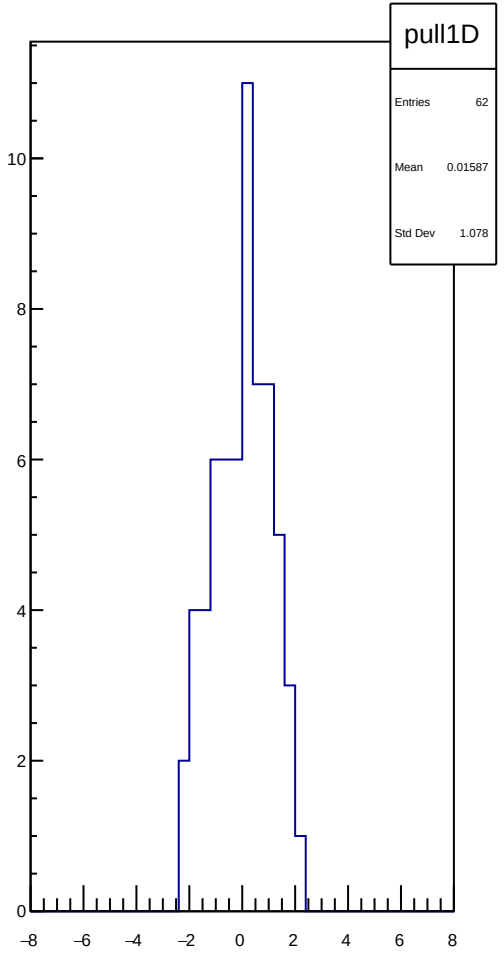

pull1D
Entries 62
Mean 0.009011
Std Dev 1.044

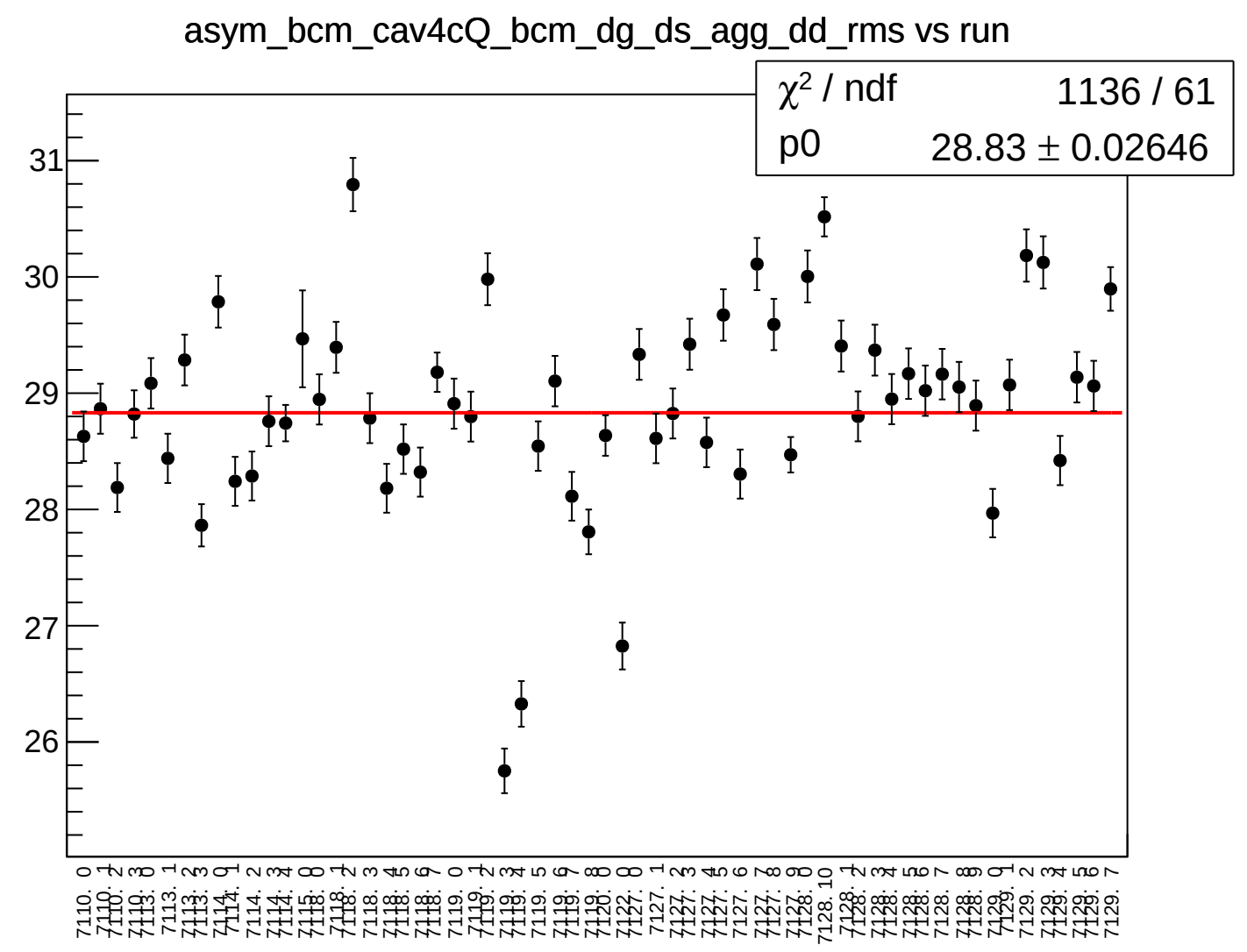

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 445.7 / 61
p0 32.5 ± 0.02982
34.5
34
33.5
33
32.5
32
31.5
31
30.5

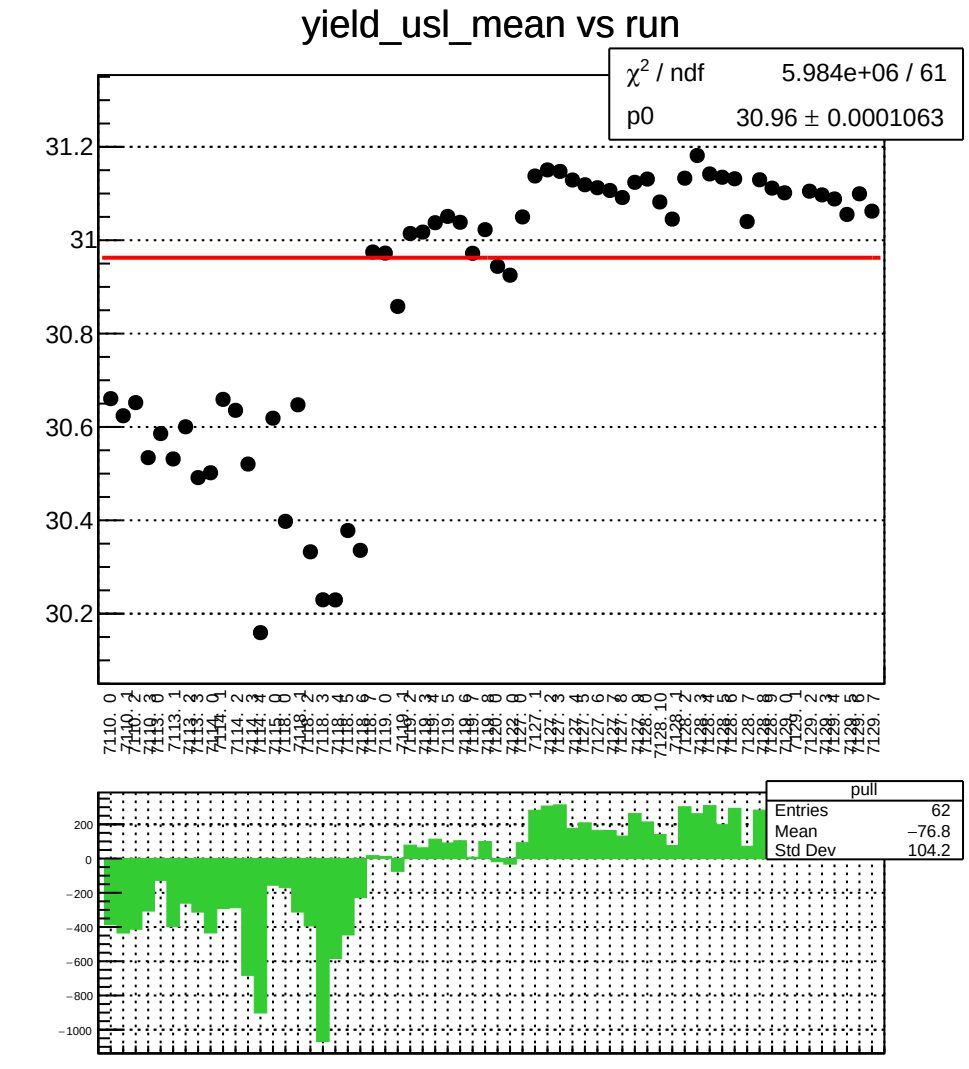

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 12.27 / 61
p0 −164.9 ± 260
pull
Entries 62
Mean 284.5
Std Dev 262.4
pull1D
Entries 62
Mean 0.003238
Std Dev 0.4448

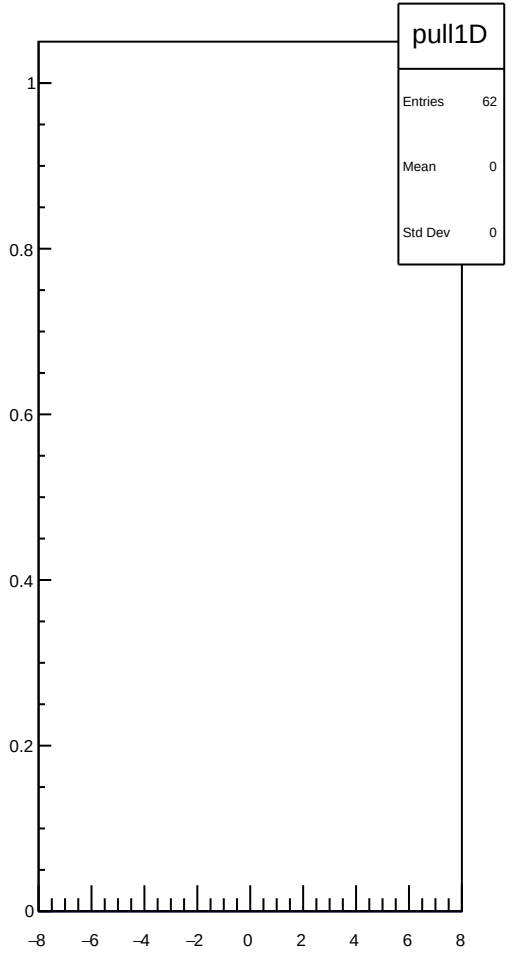

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.052e+04 / 61
p0 198.7 ± 0.1839
350
300
250
200
150
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

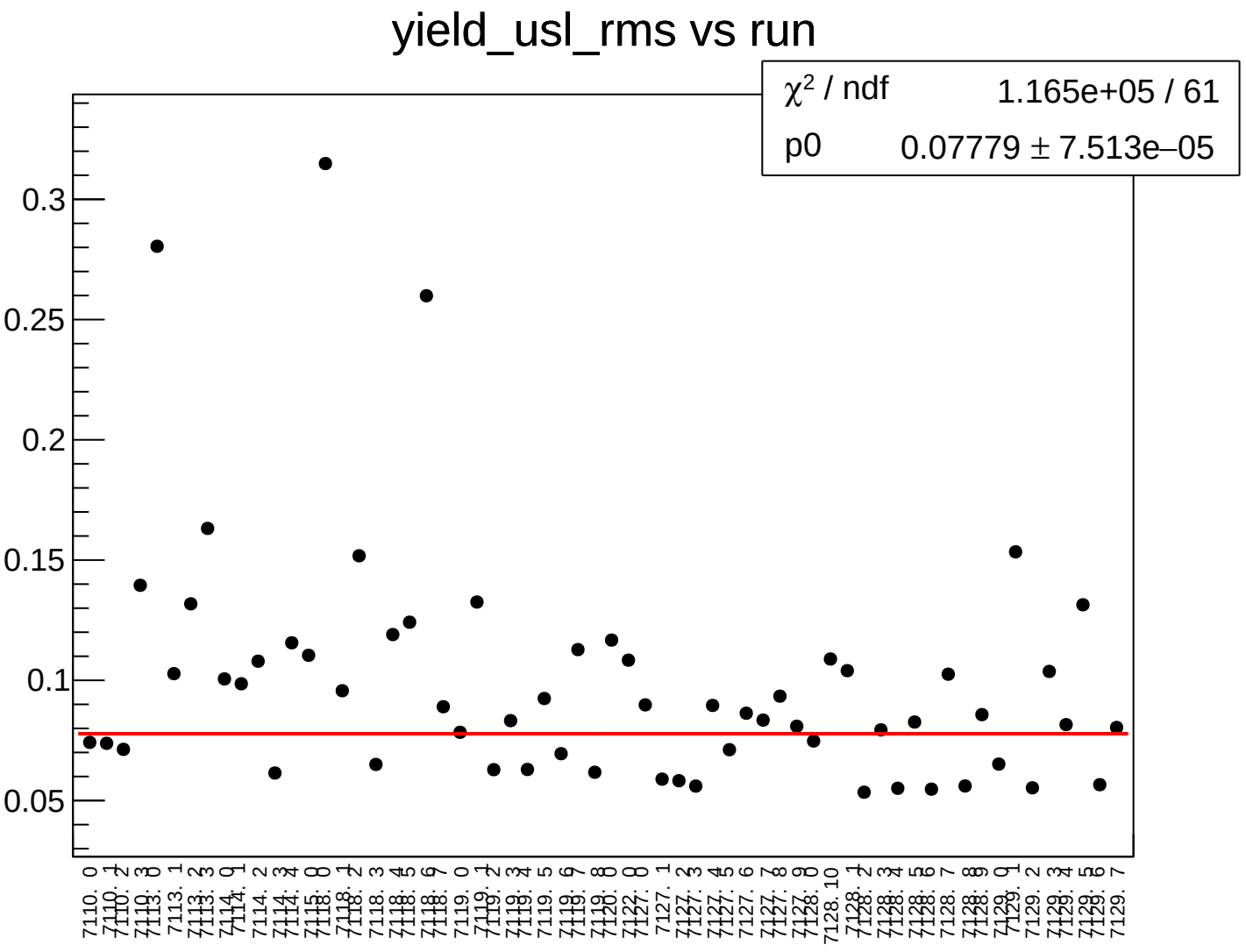

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 72.04 / 61
p0 −16.39 ± 37.42
1000
500
0
−500
−1000
pull
Entries 62
Mean 44.29
Std Dev 69.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

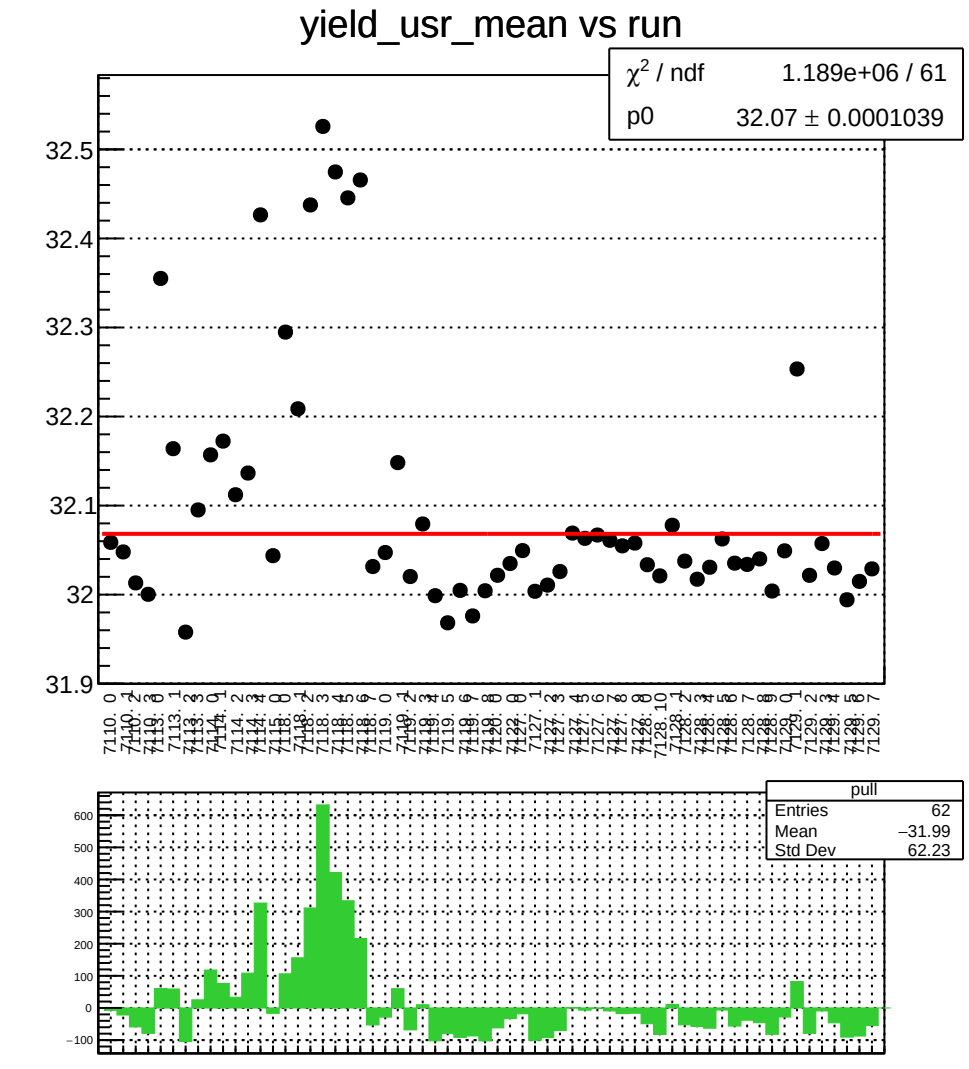

pull1D
Entries 62
Mean 0.01587
Std Dev 1.078
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

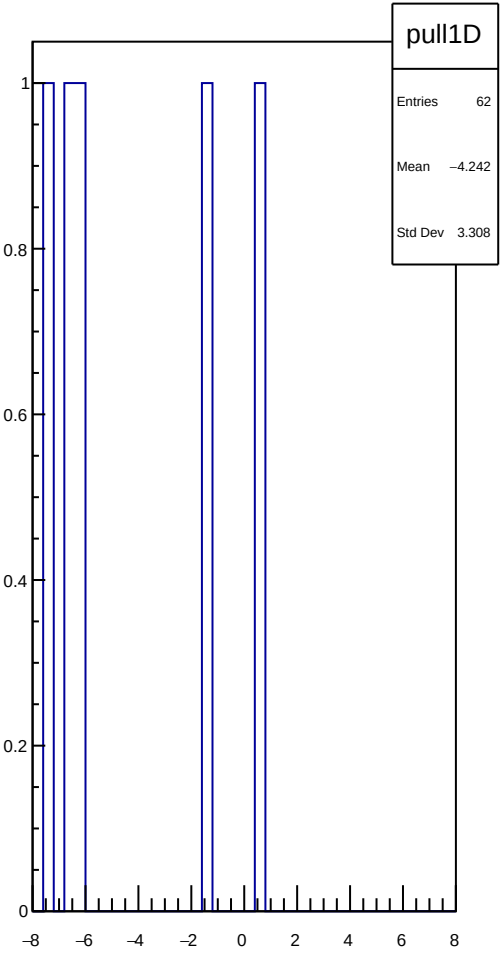

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1136 / 61
p0 28.83 ± 0.02646
31
30
29
28
27
26
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

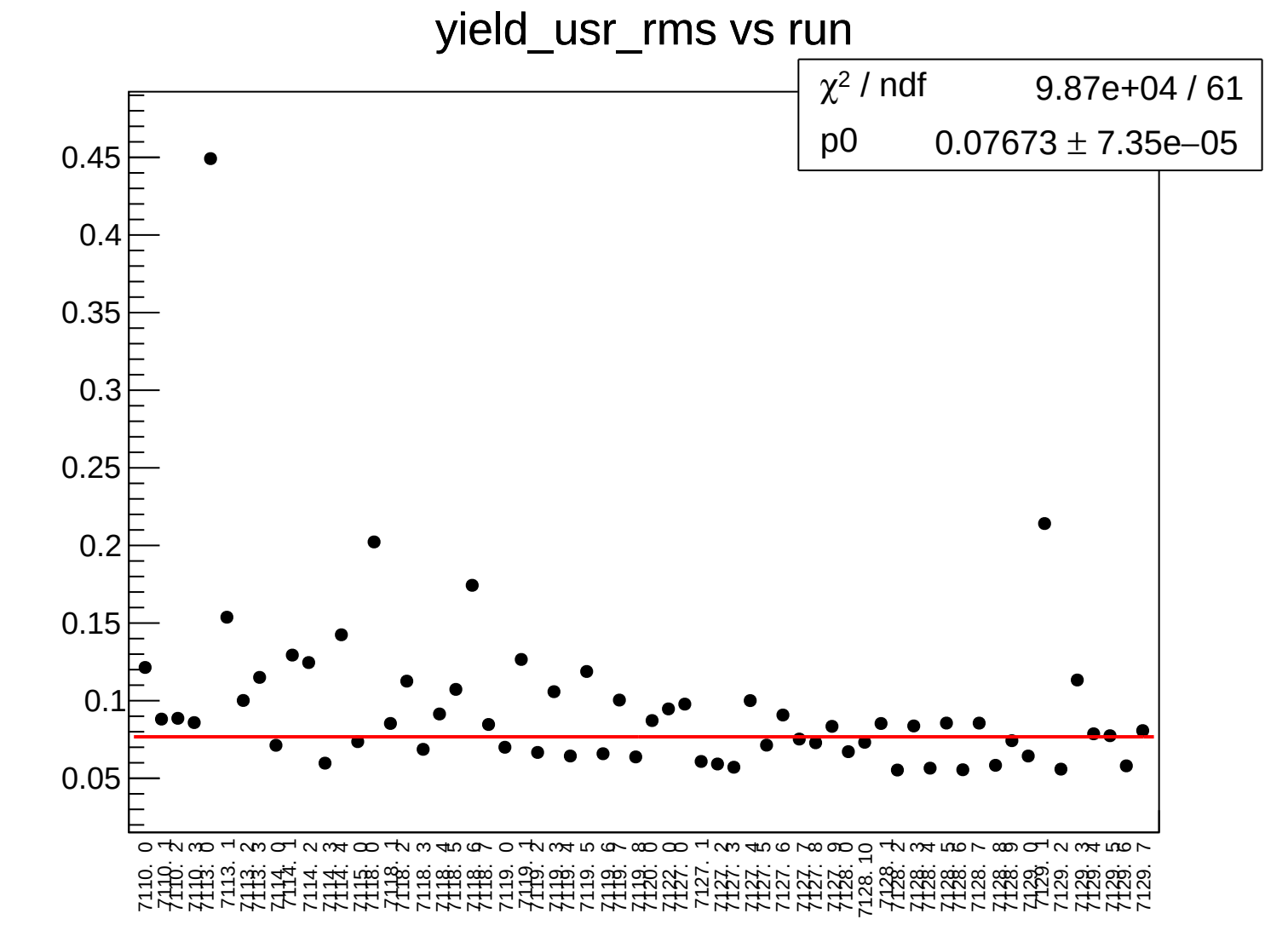

yield_usl_mean vs run
χ² / ndf 5.984e+06 / 61
p0 30.96 ± 0.0001063
31.2
31
30.8
30.6
30.4
30.2
pull
Entries 62
Mean −76.8
Std Dev 104.2
200
0
−200
−400
−600
−800
−1000

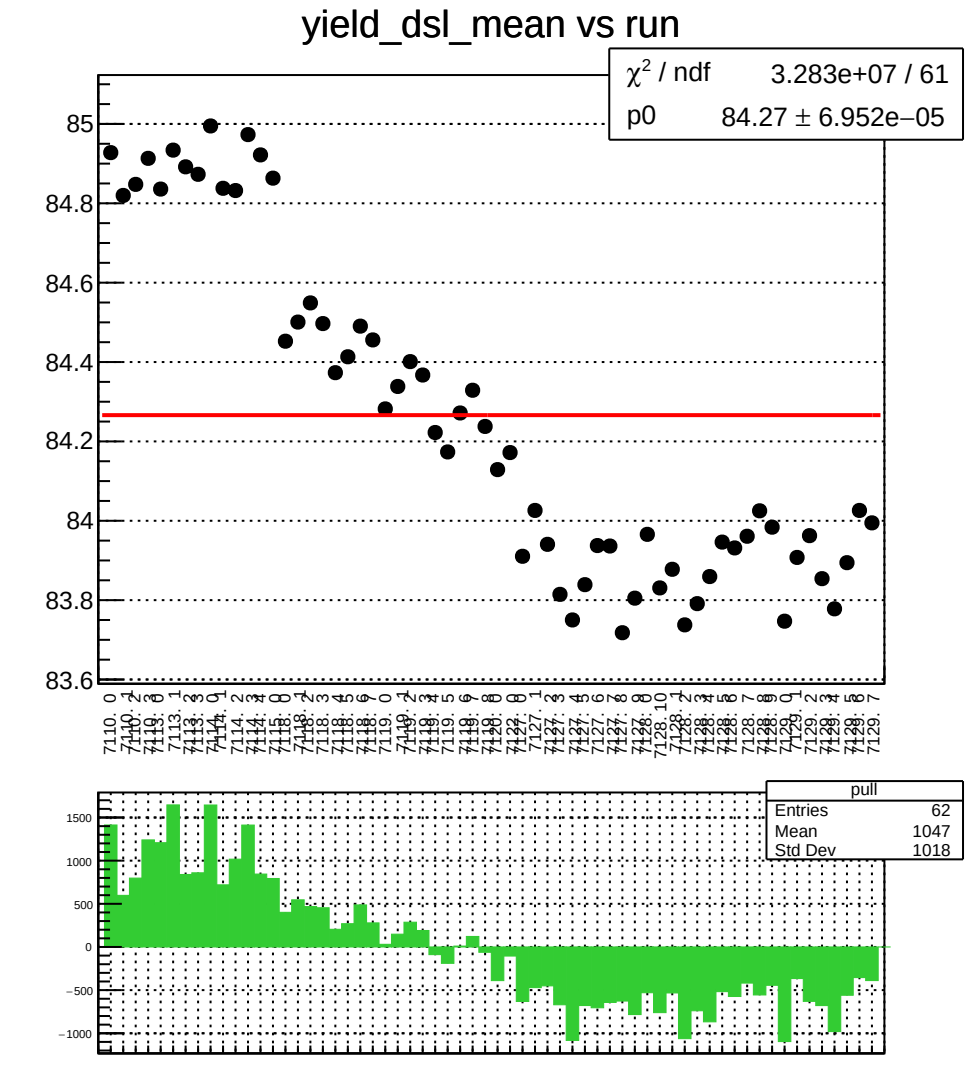

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

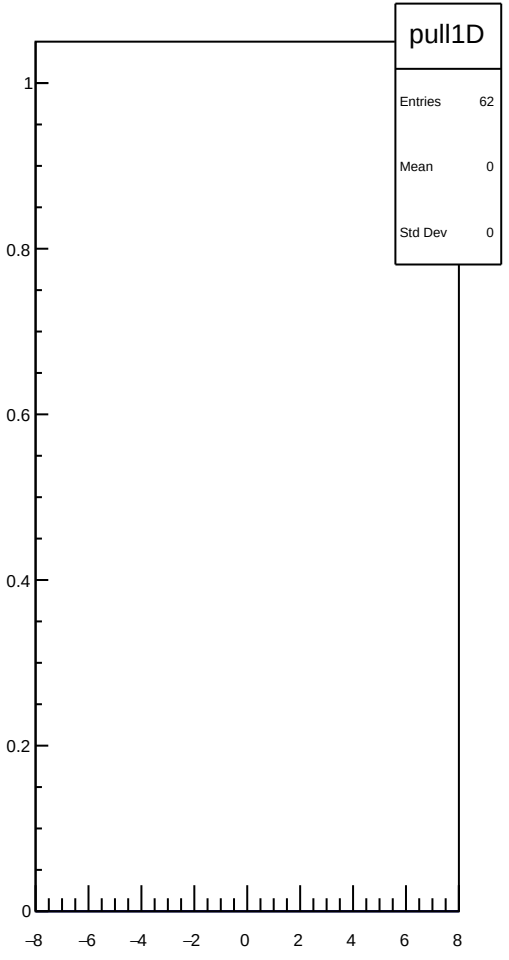

yield_usl_rms vs run
χ² / ndf 1.165e+05 / 61
p0 0.07779 ± 7.513e−05
0.3
0.25
0.2
0.15
0.1
0.05
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 8
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

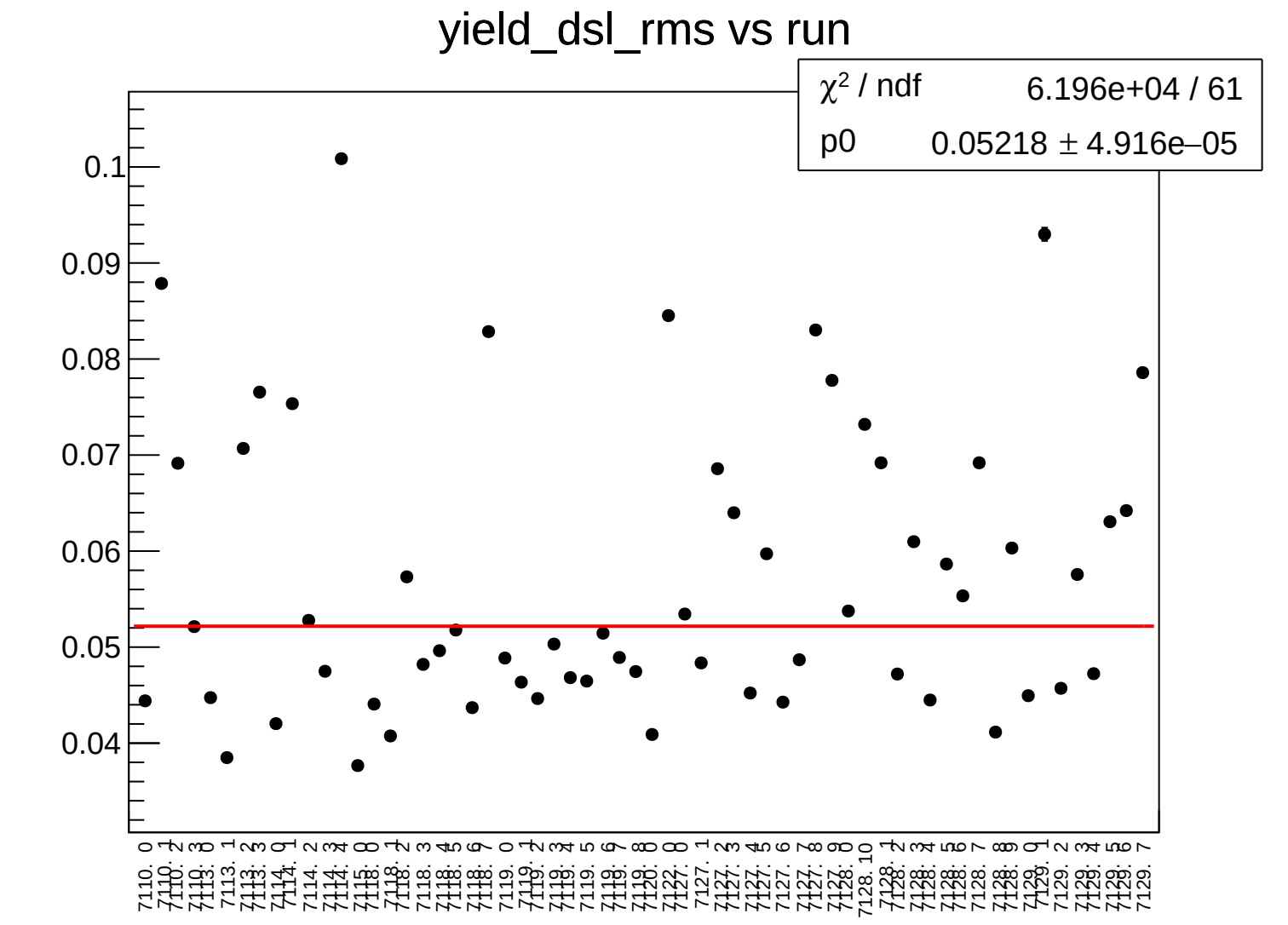

yield_usr_mean vs run
χ² / ndf 1.189e+06 / 61
p0 32.07 ± 0.0001039
32.5
32.4
32.3
32.2
32.1
32
31.9
pull
Entries 62
Mean −31.99
Std Dev 62.23
600
500
400
300
200
100
0
−100

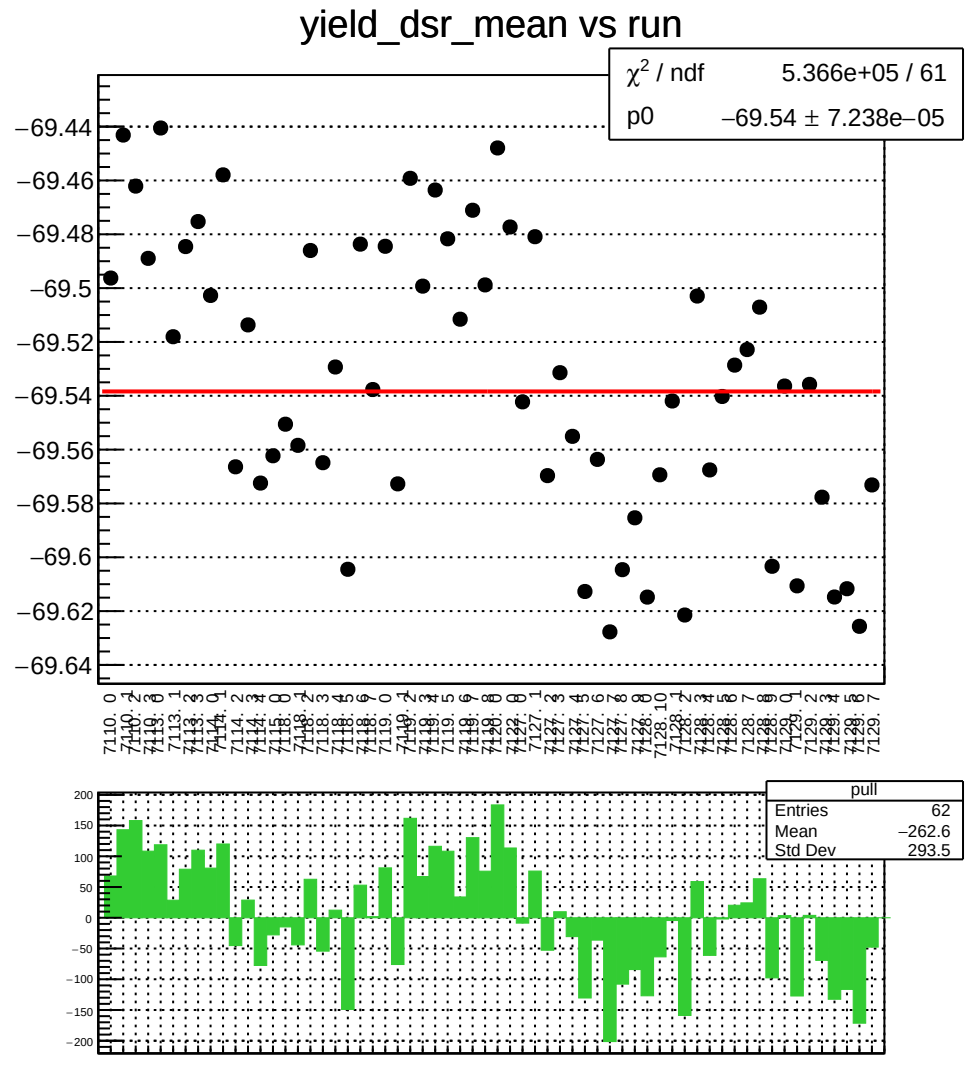

pull1D
Entries 62
Mean −4.242
Std Dev 3.308
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

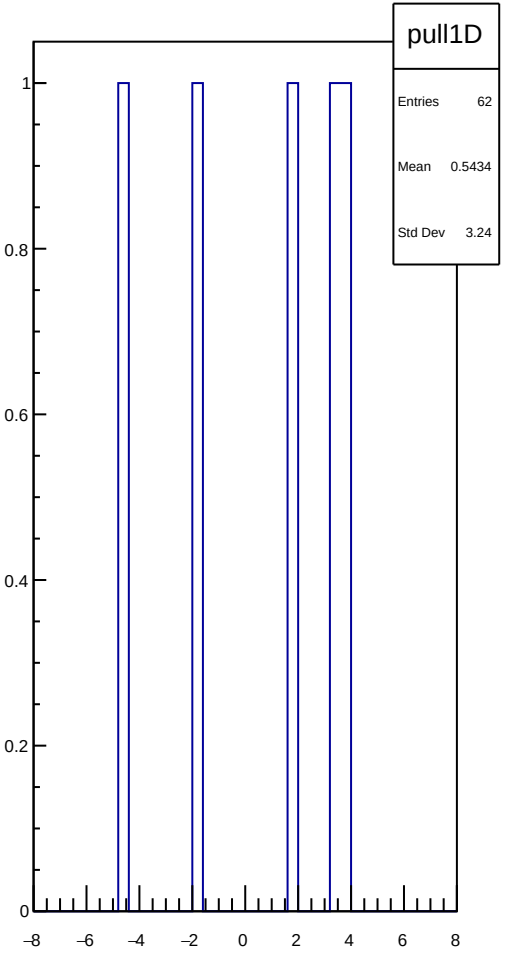

yield_usr_rms vs run
χ^2 / ndf 9.87e+04 / 61
p0 0.07673 ± 7.35e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

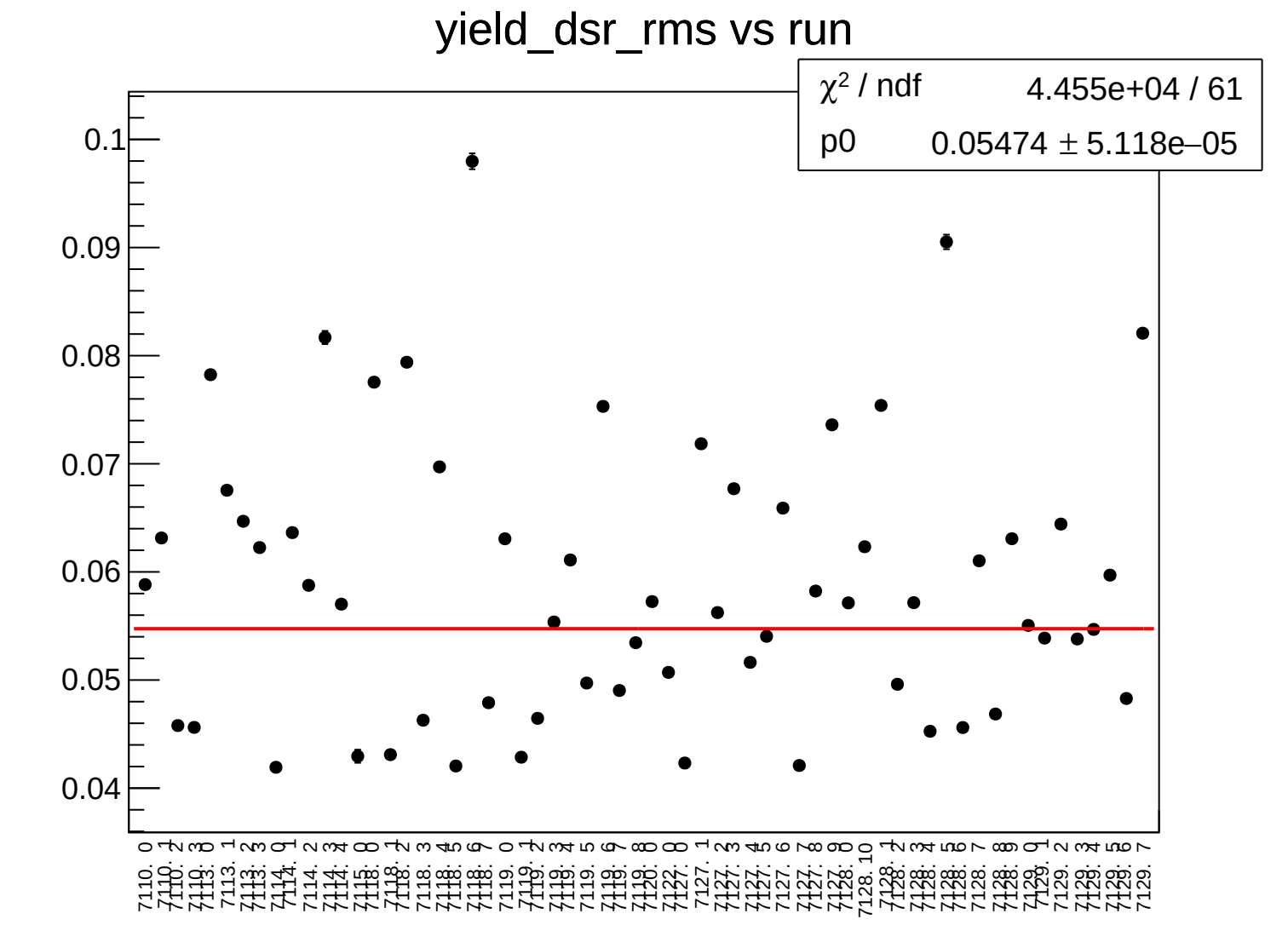

yield_dsl_mean vs run
χ² / ndf 3.283e+07 / 61
p0 84.27 ± 6.952e−05
85
84.8
84.6
84.4
84.2
84
83.8
83.6
pull
Entries 62
Mean 1047
Std Dev 1018
1500
1000
500
0
−500
−1000

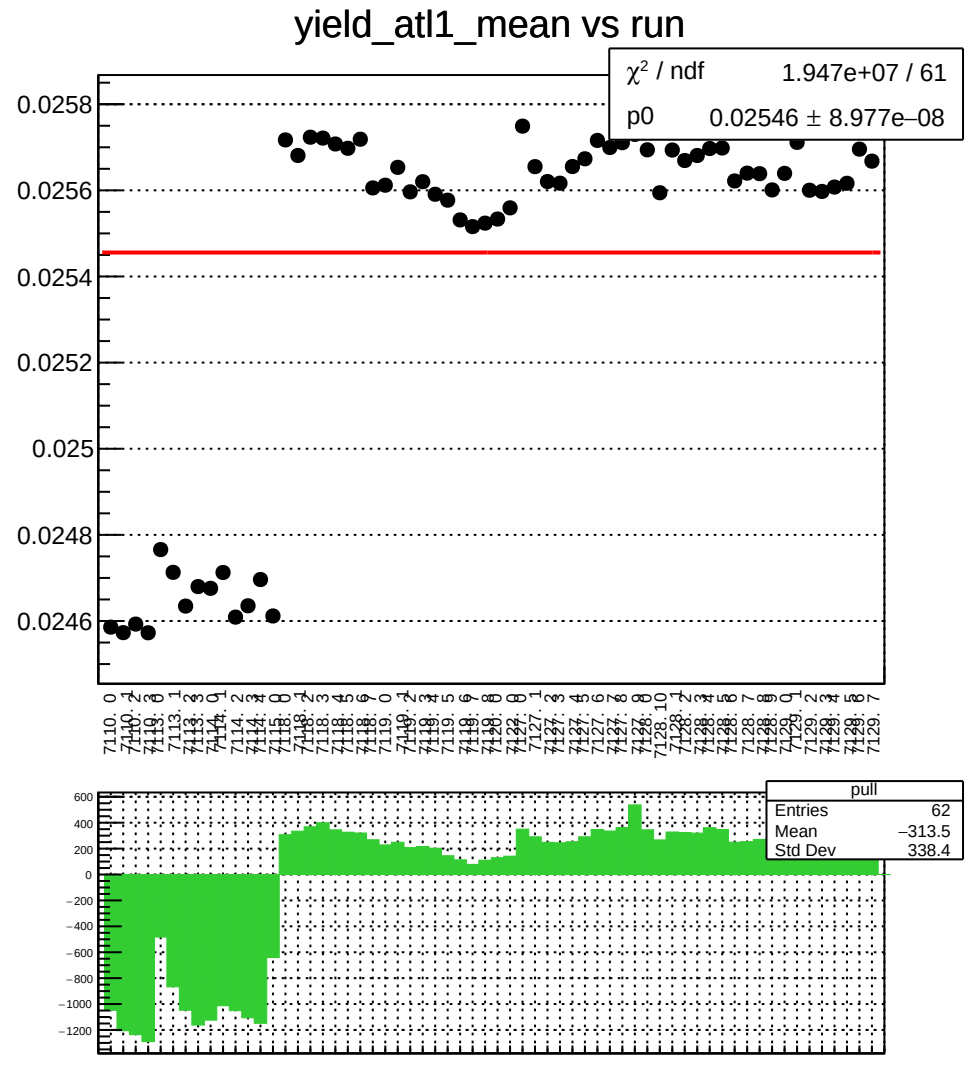

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

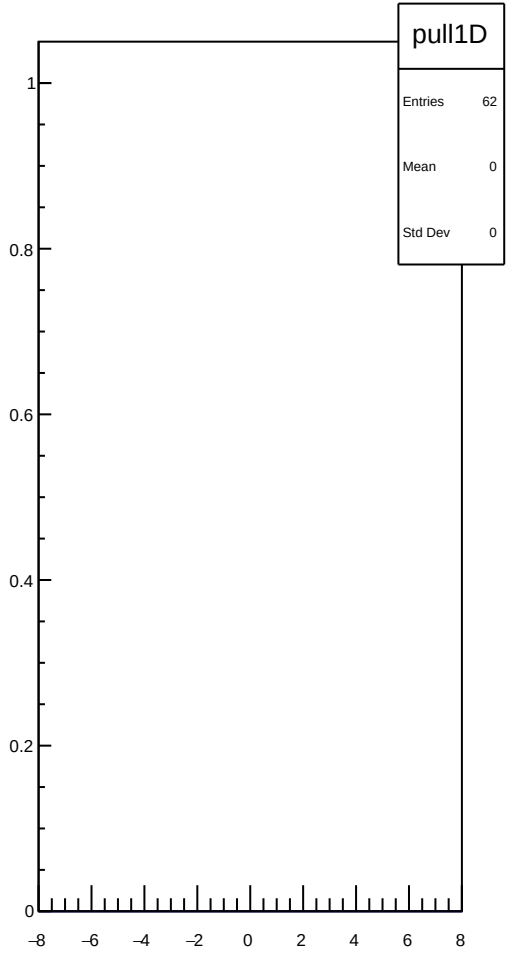

yield_dsl_rms vs run
χ² / ndf 6.196e+04 / 61
p0 0.05218 ± 4.916e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

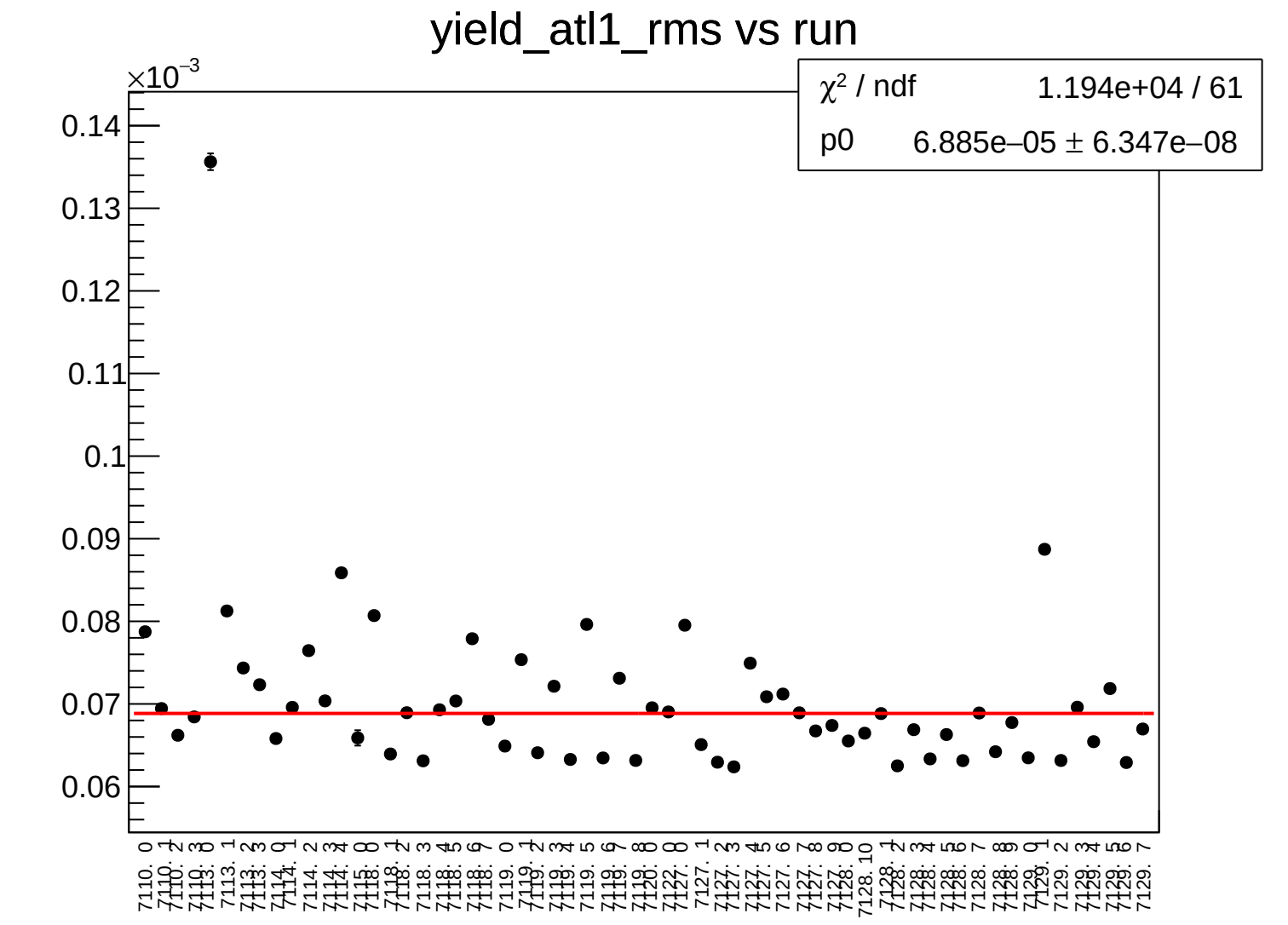

yield_dsr_mean vs run
χ² / ndf 5.366e+05 / 61
p0 −69.54 ± 7.238e−05
pull
Entries 62
Mean −262.6
Std Dev 293.5

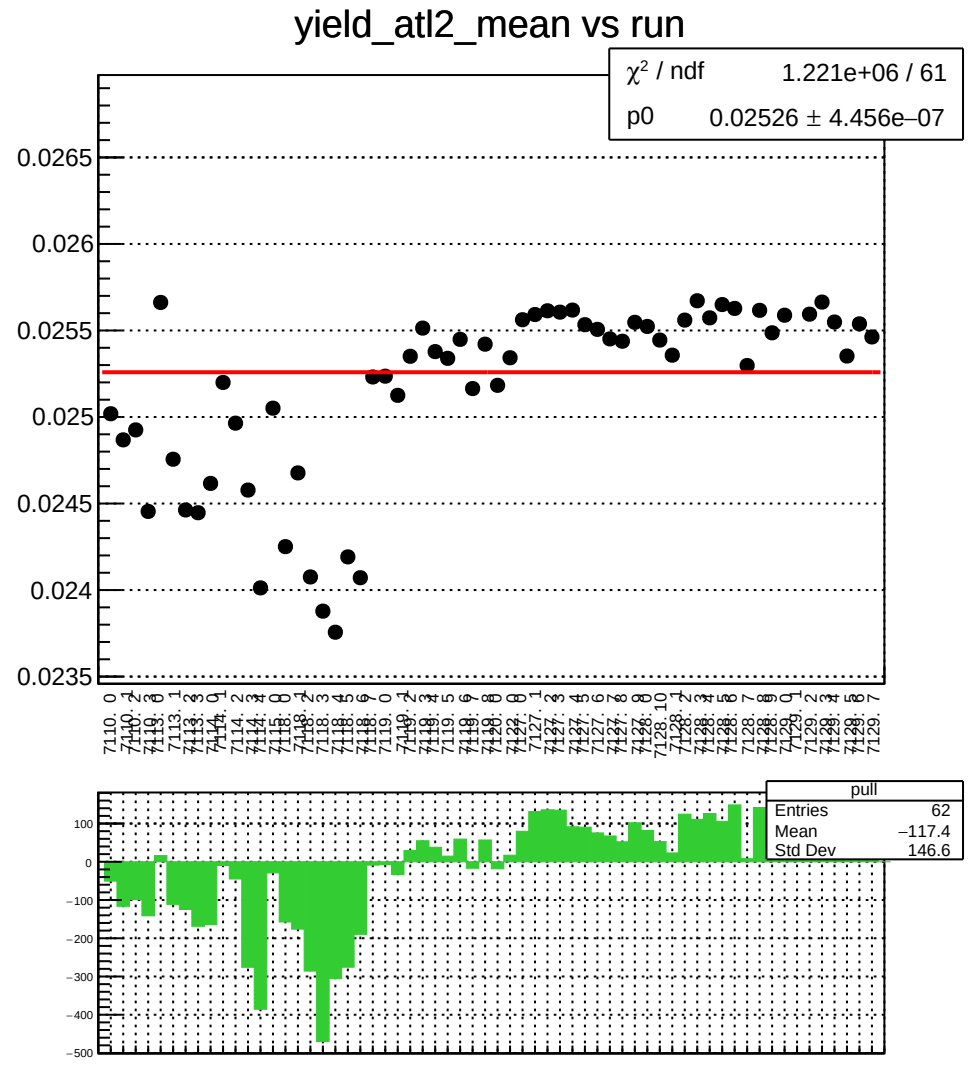

pull1D
Entries 62
Mean 0.5434
Std Dev 3.24

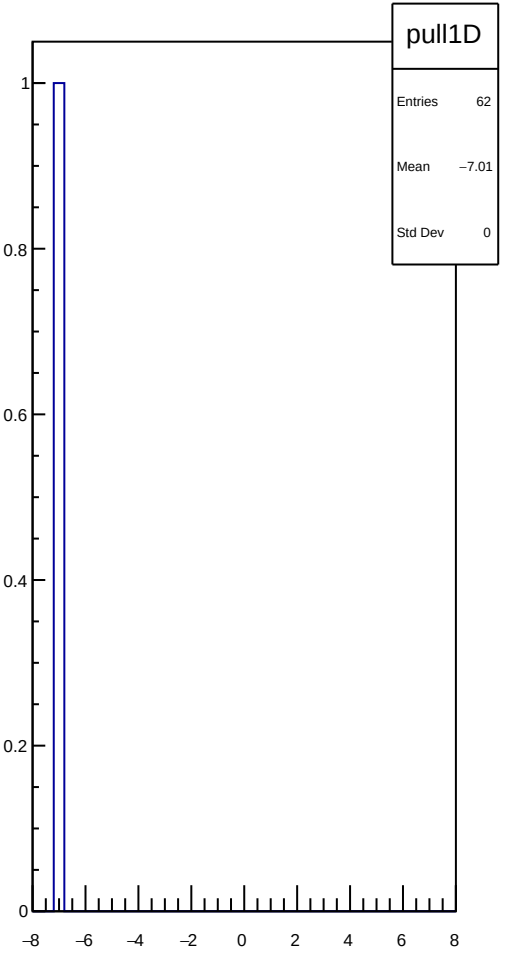

yield_dsr_rms vs run
χ² / ndf 4.455e+04 / 61
p0 0.05474 ± 5.118e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

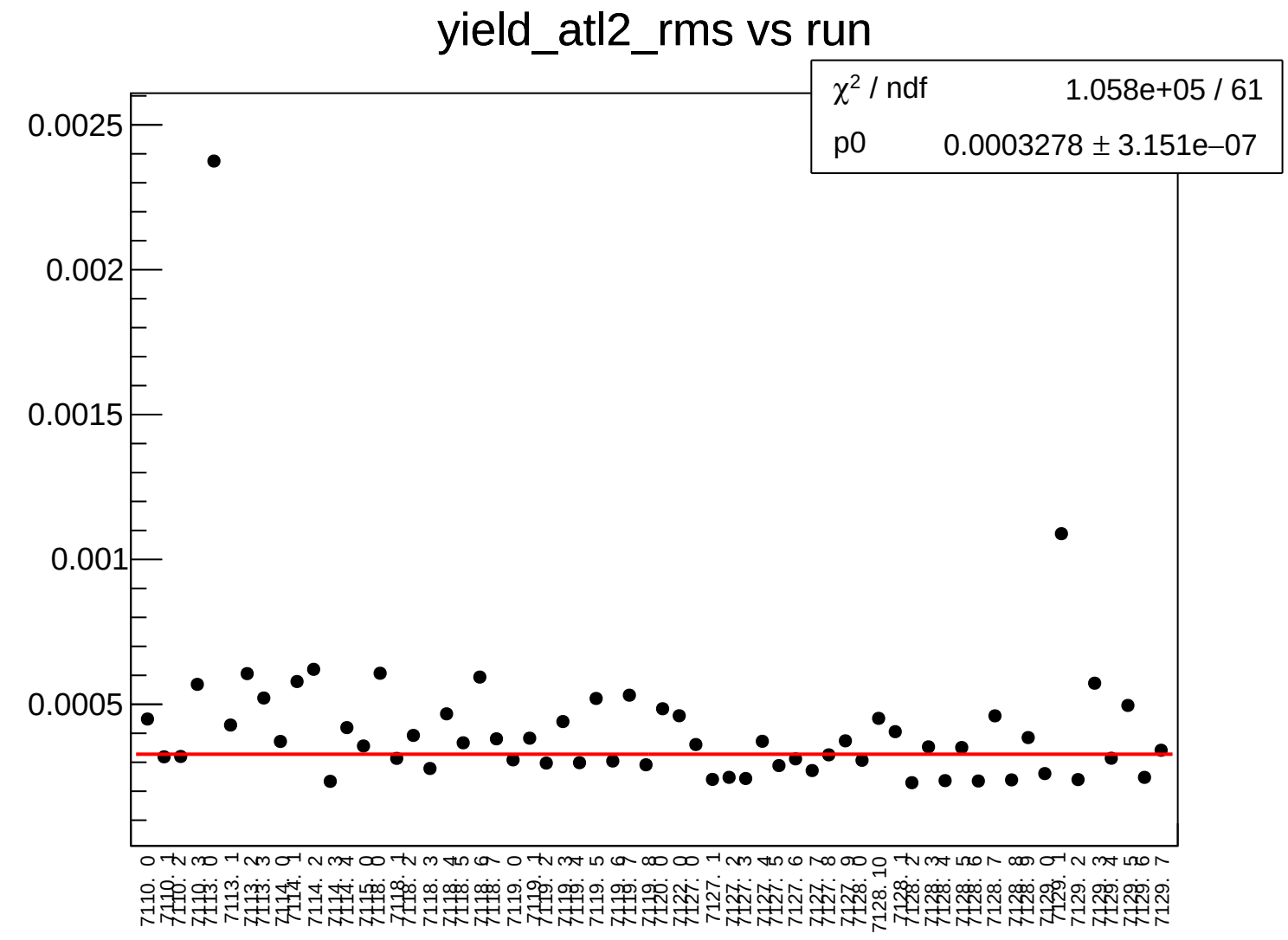

yield_atl1_mean vs run
χ² / ndf 1.947e+07 / 61
p0 0.02546 ± 8.977e−08
0.0258
0.0256
0.0254
0.0252
0.025
0.0248
0.0246
pull
Entries 62
Mean −313.5
Std Dev 338.4
600
400
200
0
−200
−400
−600
−800
−1000
−1200

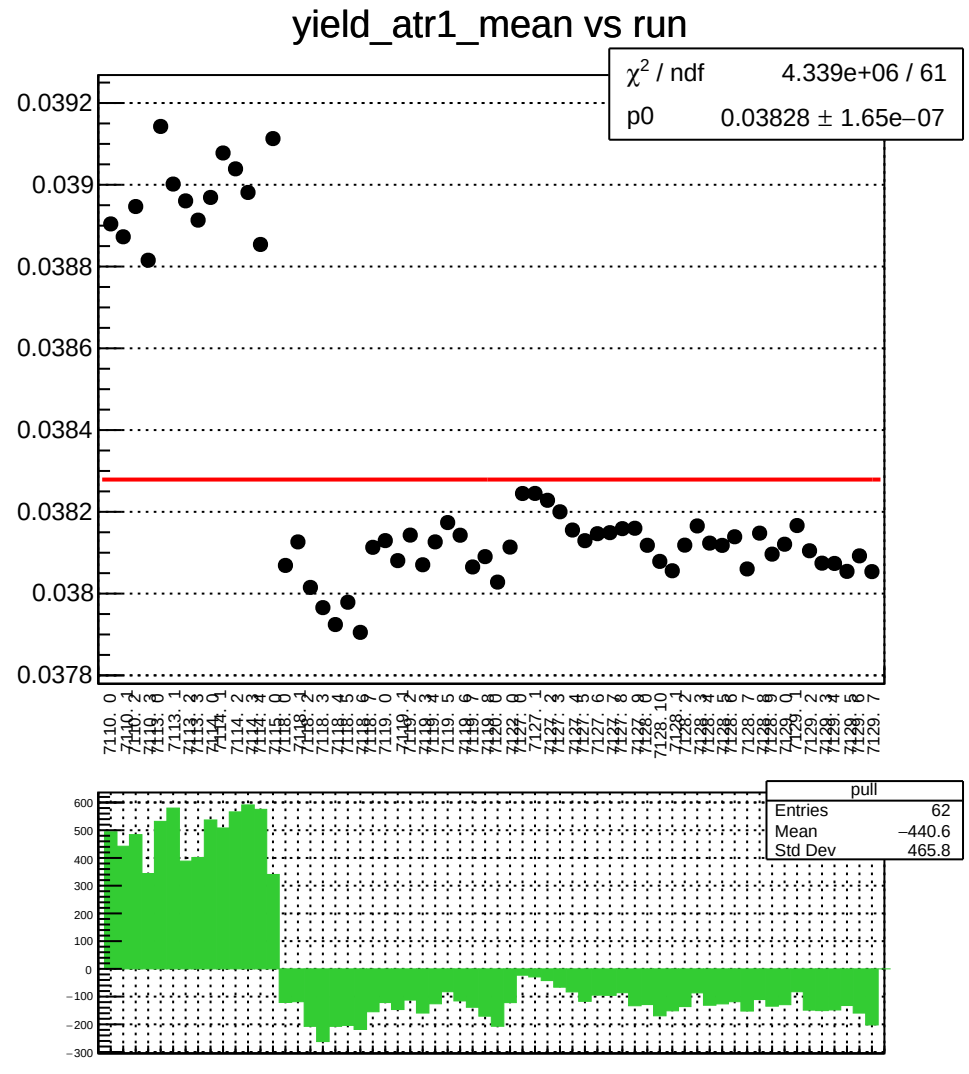

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

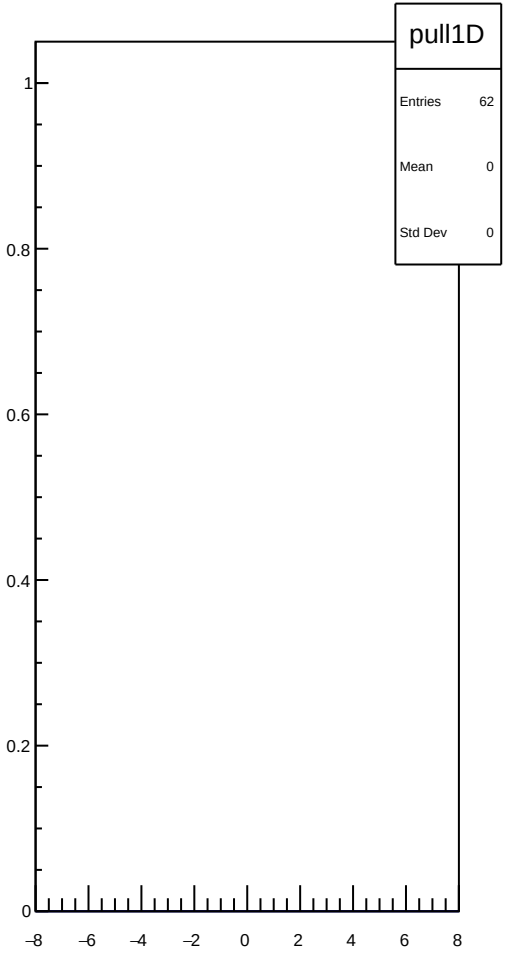

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.194e+04 / 61
p0 6.885e−05 ± 6.347e−08
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06

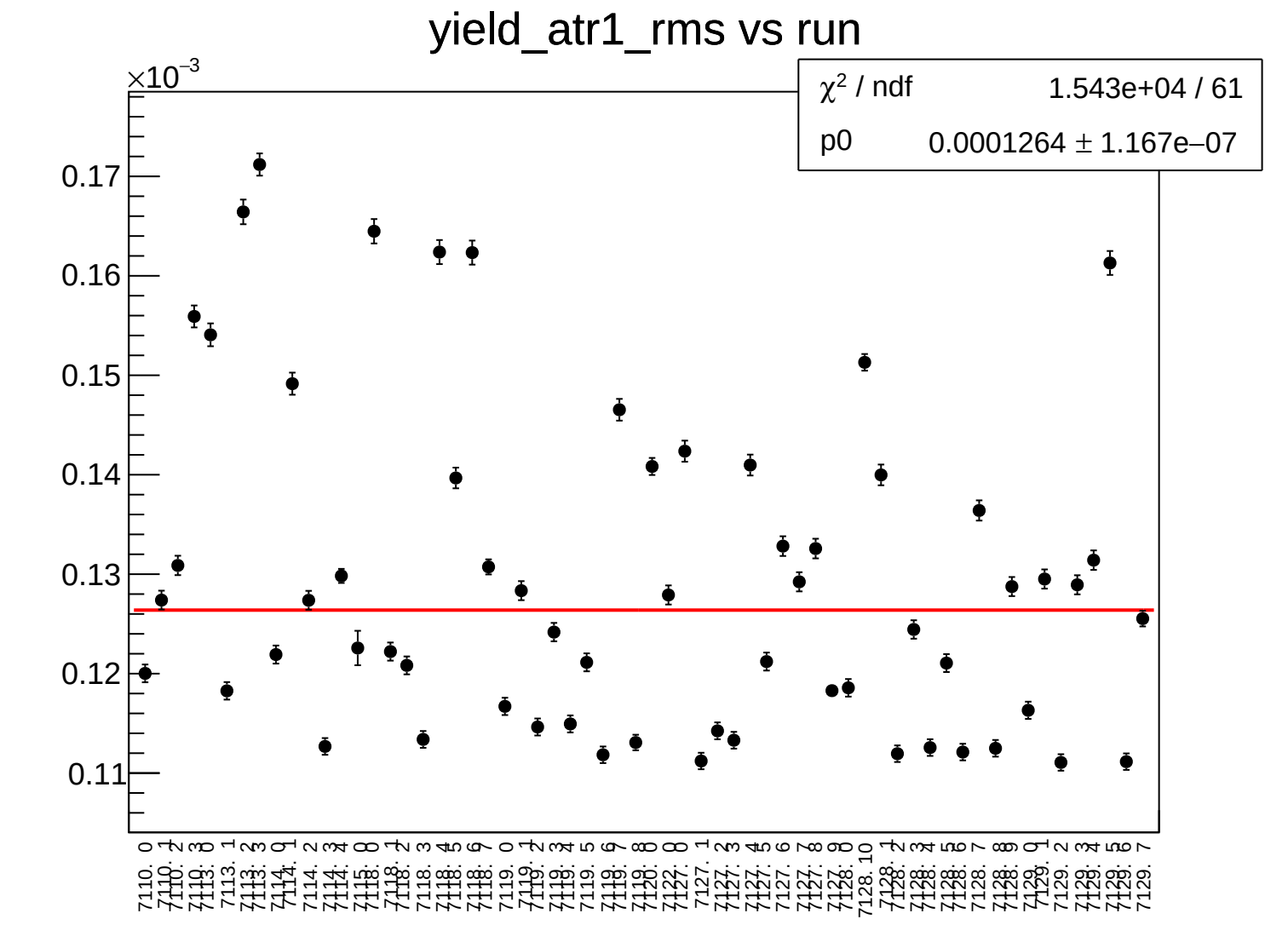

yield_atl2_mean vs run
χ² / ndf 1.221e+06 / 61
p0 0.02526 ± 4.456e−07
0.0265
0.026
0.0255
0.025
0.0245
0.024
0.0235
pull
Entries 62
Mean −117.4
Std Dev 146.6
100
0
−100
−200
−300
−400
−500

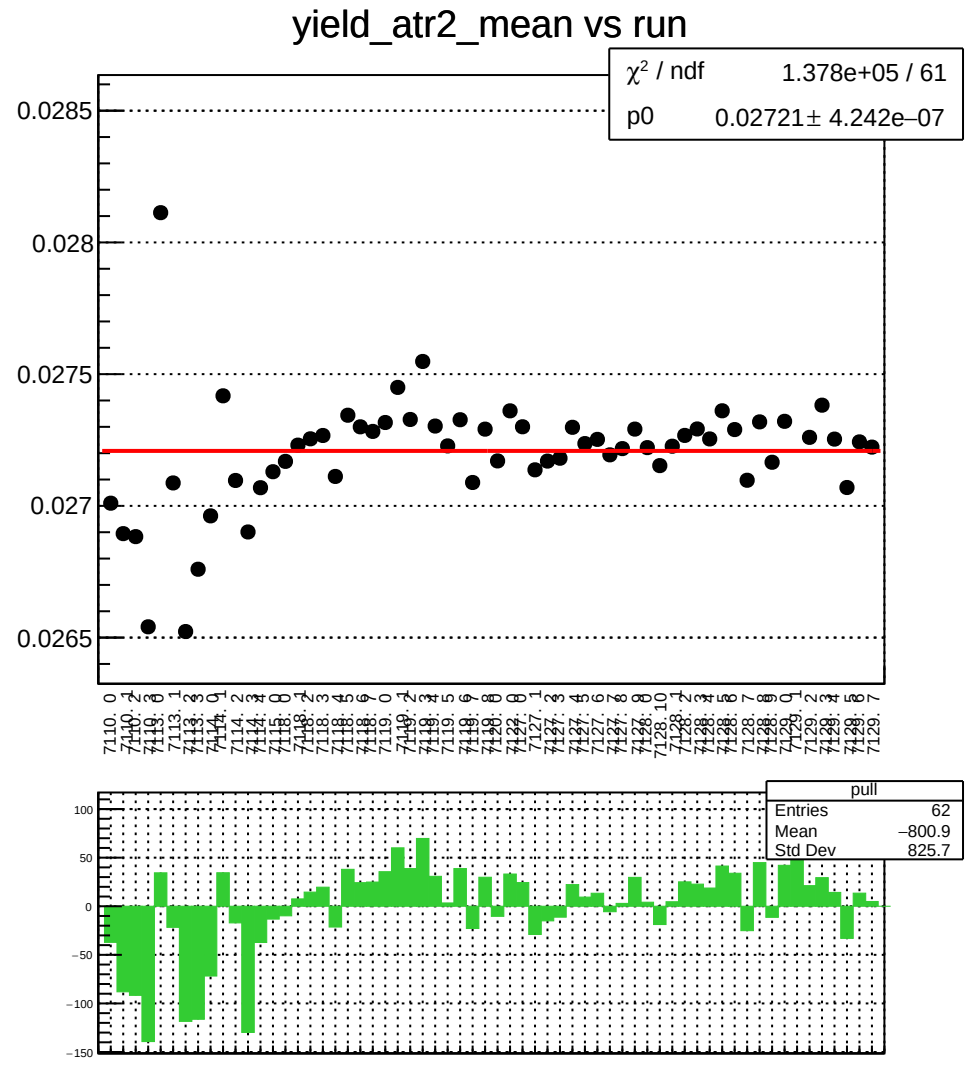

pull1D
Entries 62
Mean −7.01
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

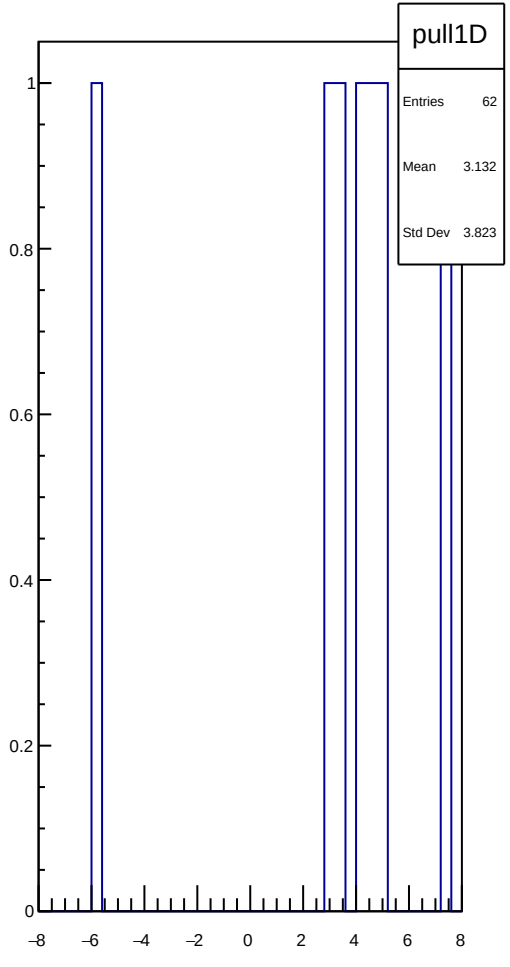

yield_atl2_rms vs run
χ² / ndf 1.058e+05 / 61
p0 0.0003278 ± 3.151e−07
0.0025
0.002
0.0015
0.001
0.0005

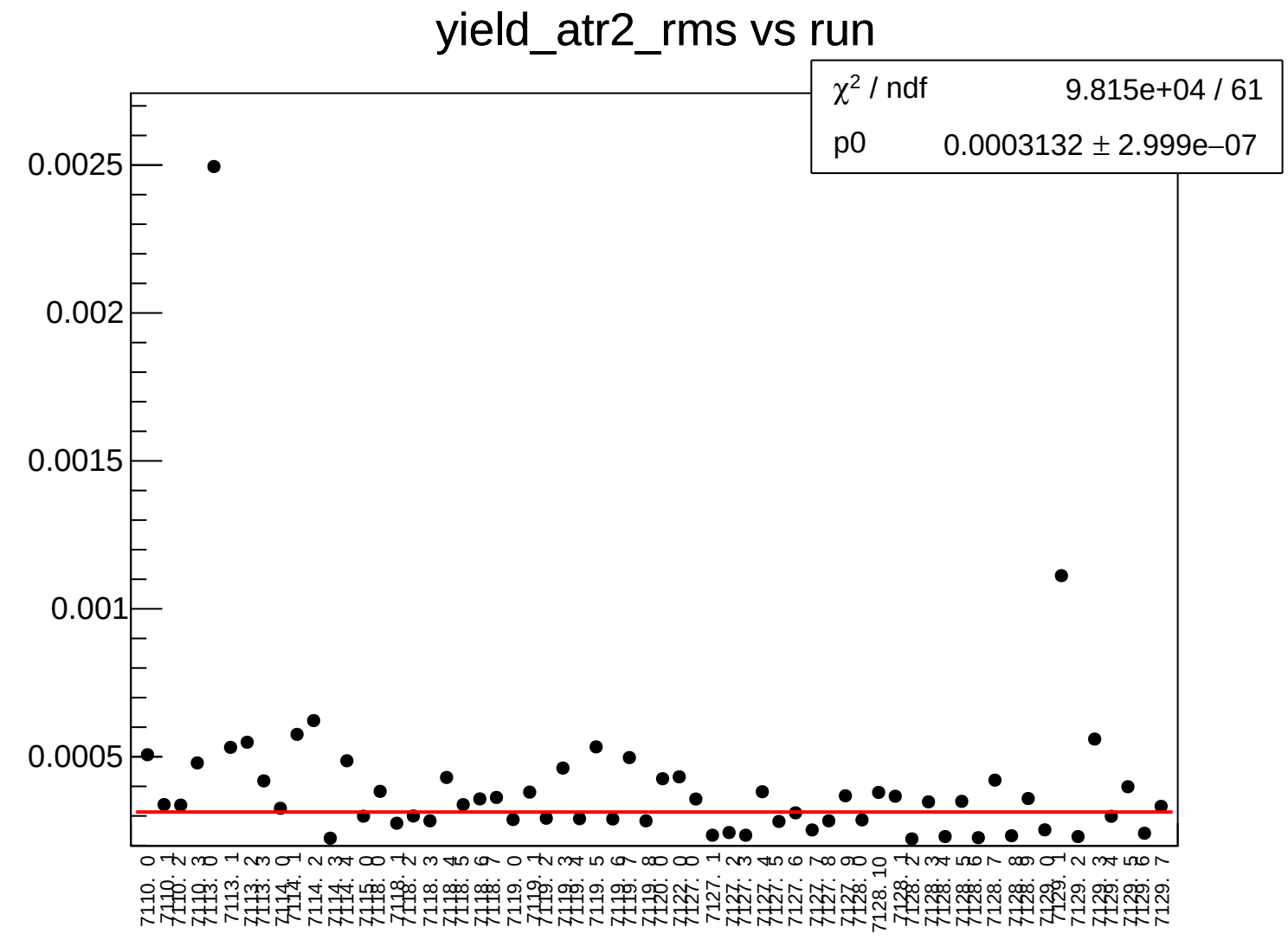

yield_atr1_mean vs run
χ² / ndf 4.339e+06 / 61
p0 0.03828 ± 1.65e−07
0.0392
0.039
0.0388
0.0386
0.0384
0.0382
0.038
0.0378
pull
Entries 62
Mean −440.6
Std Dev 465.8
600
500
400
300
200
100
0
−100
−200
−300

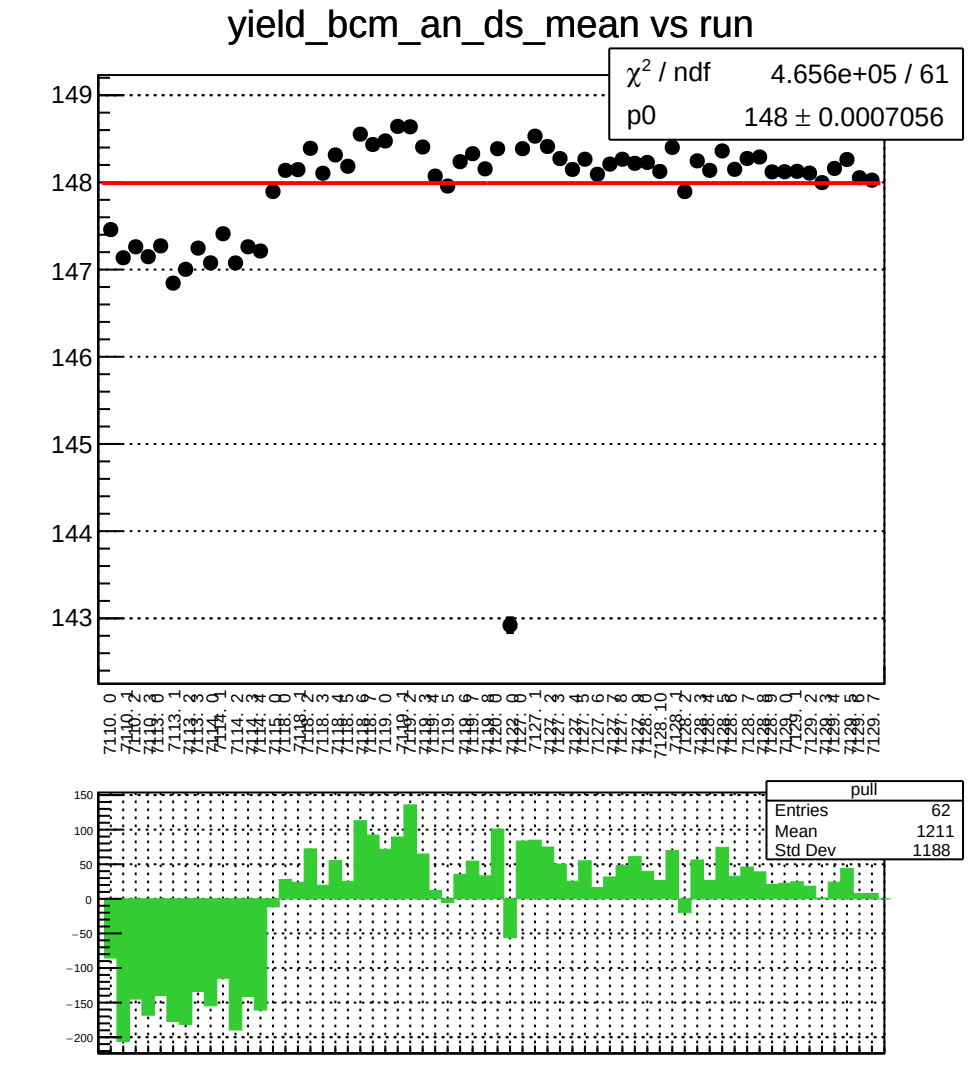

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

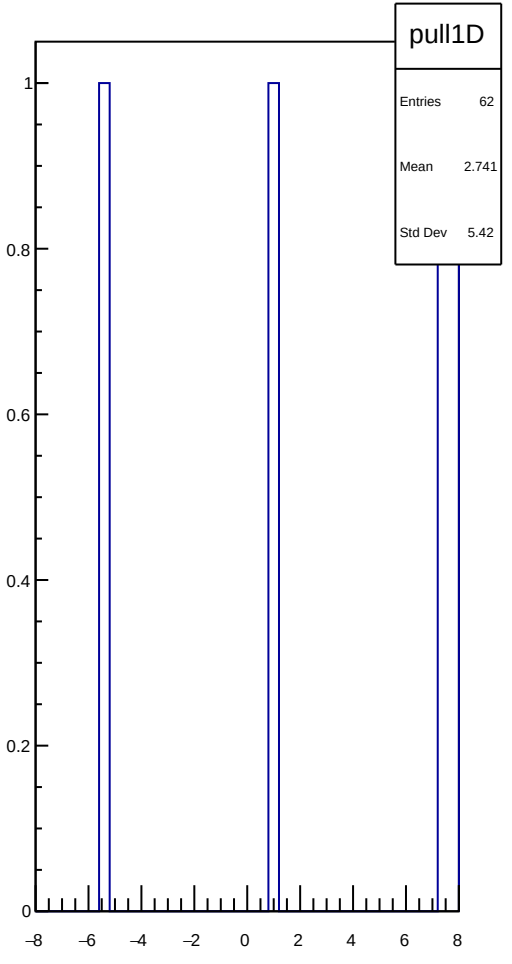

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.543e+04 / 61
p0 0.0001264 ± 1.167e−07
0.17
0.16
0.15
0.14
0.13
0.12
0.11

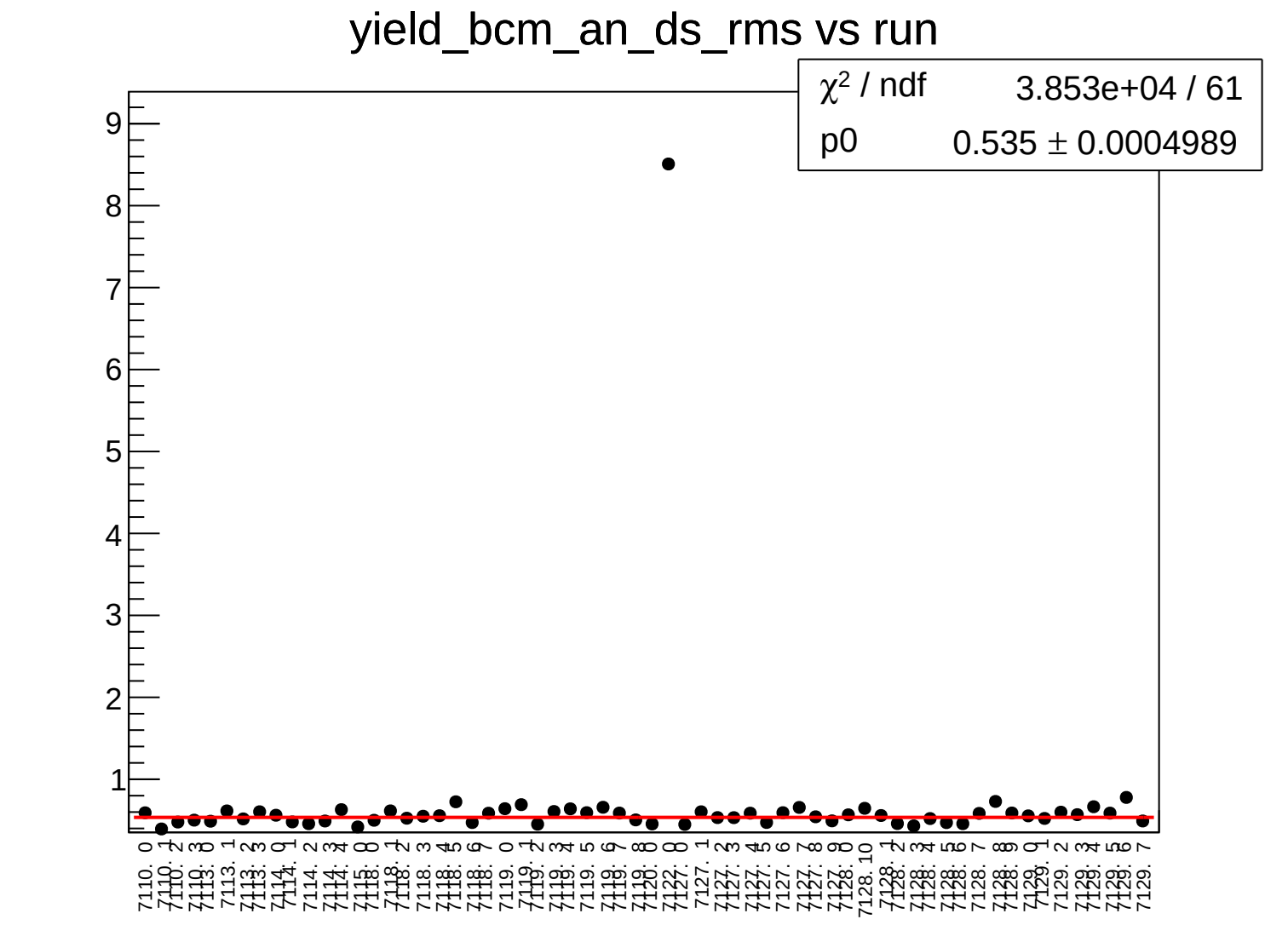

yield_atr2_mean vs run
χ² / ndf 1.378e+05 / 61
p0 0.02721± 4.242e–07
0.0285
0.028
0.0275
0.027
0.0265
pull
Entries 62
Mean –800.9
Std Dev 825.7
100
50
0
–50
–100
–150

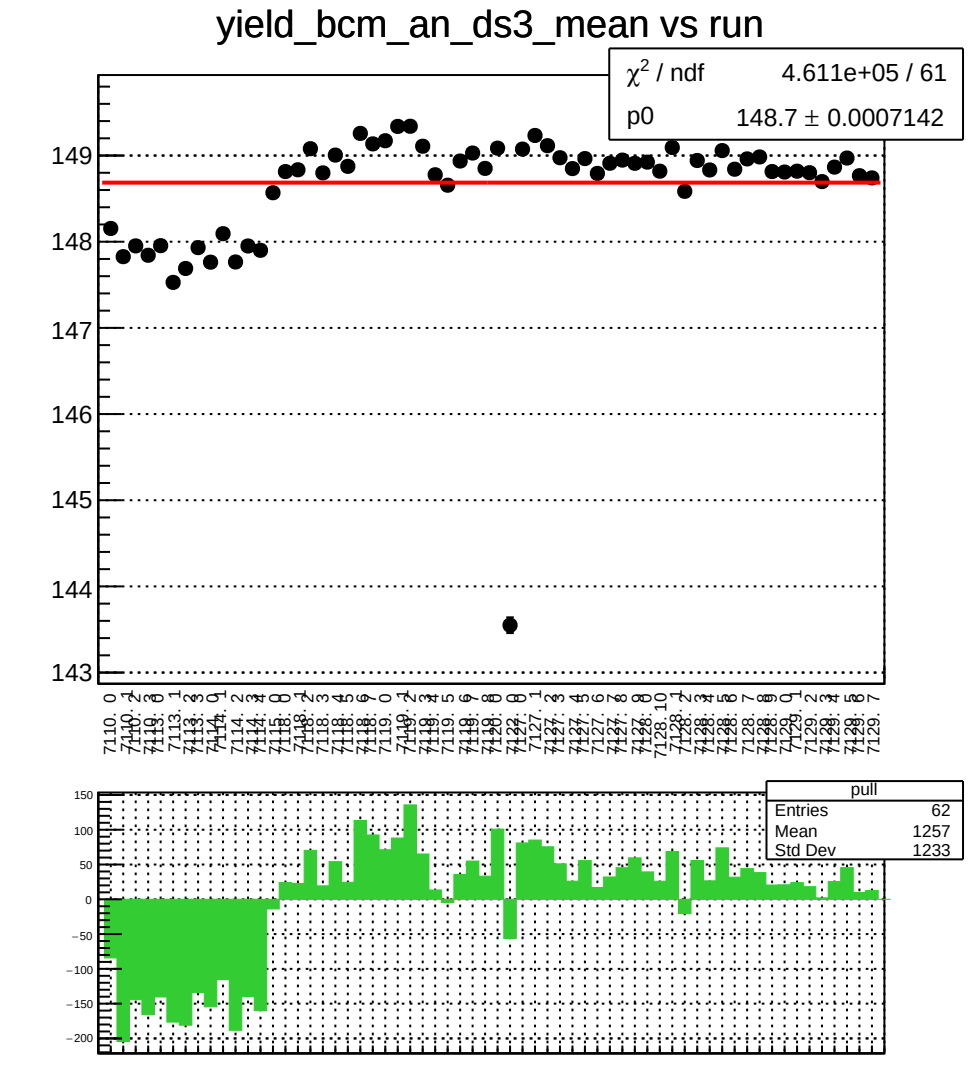

pull1D
Entries 62
Mean 3.132
Std Dev 3.823
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

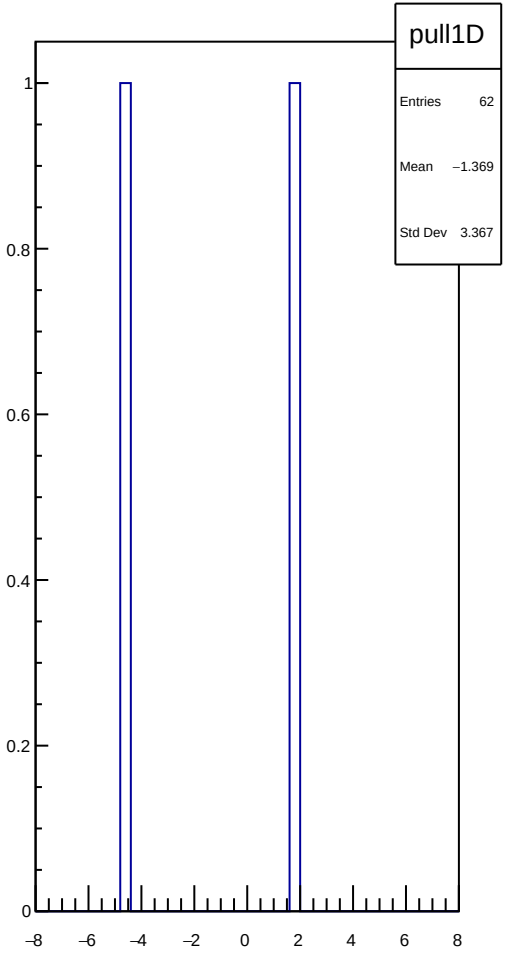

yield_atr2_rms vs run
χ² / ndf 9.815e+04 / 61
p0 0.0003132 ± 2.999e−07
0.0025
0.002
0.0015
0.001
0.0005

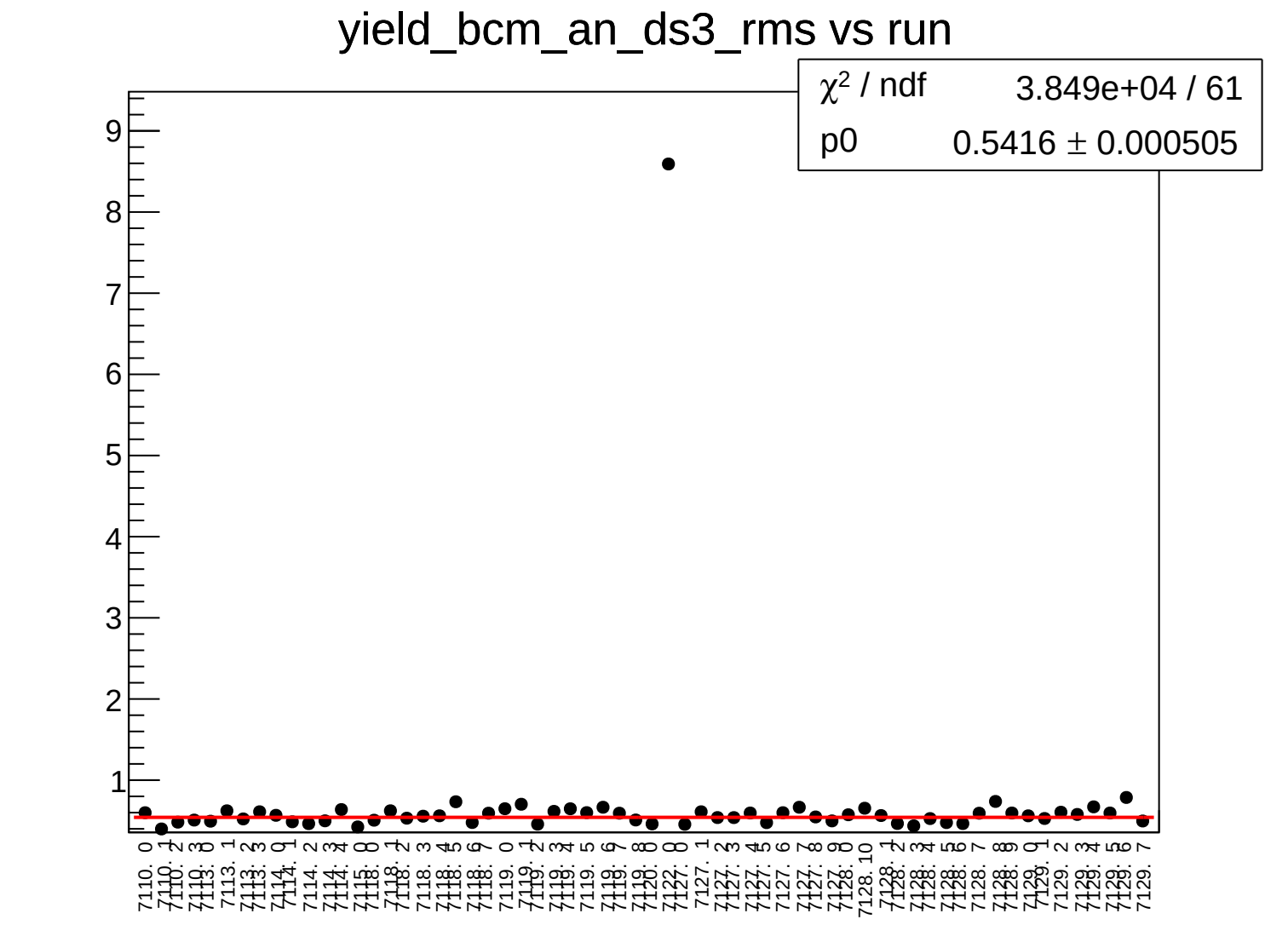

yield_bcm_an_ds_mean vs run
χ² / ndf 4.656e+05 / 61
p0 148 ± 0.0007056
149
148
147
146
145
144
143
pull
Entries 62
Mean 1211
Std Dev 1188
150
100
50
0
−50
−100
−150
−200

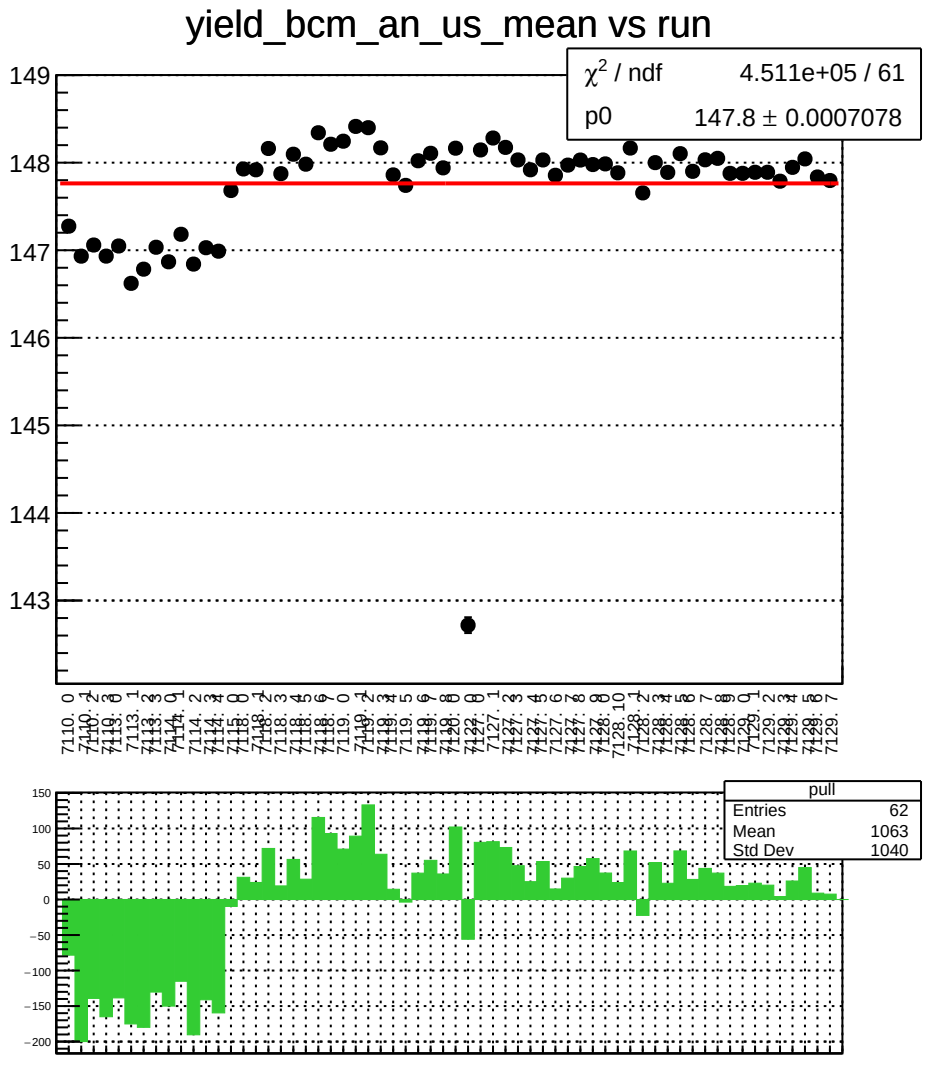

pull1D
Entries 62
Mean 2.741
Std Dev 5.42
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

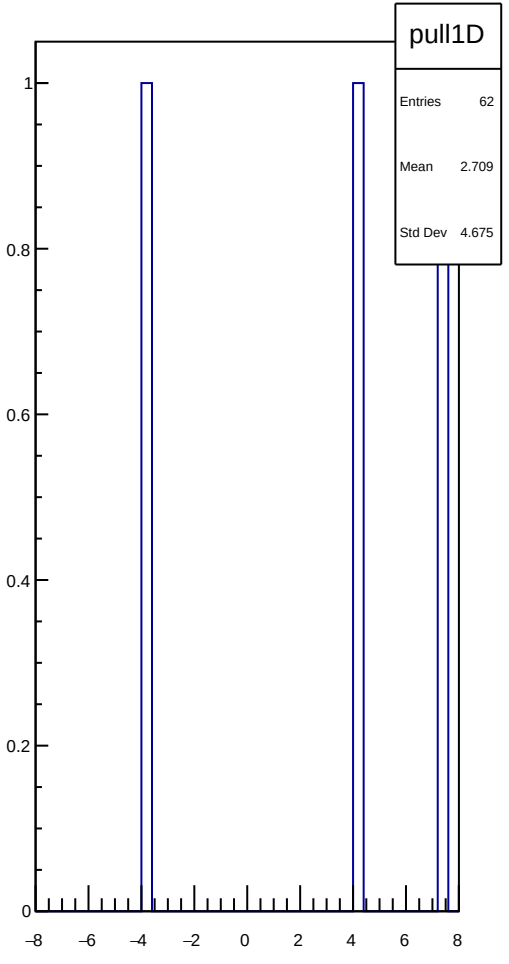

yield_bcm_an_ds_rms vs run
χ^2 / ndf 3.853e+04 / 61
p0 0.535 ± 0.0004989
9
8
7
6
5
4
3
2
1
7110. 0
7110. 1
7110. 2
7110. 3
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

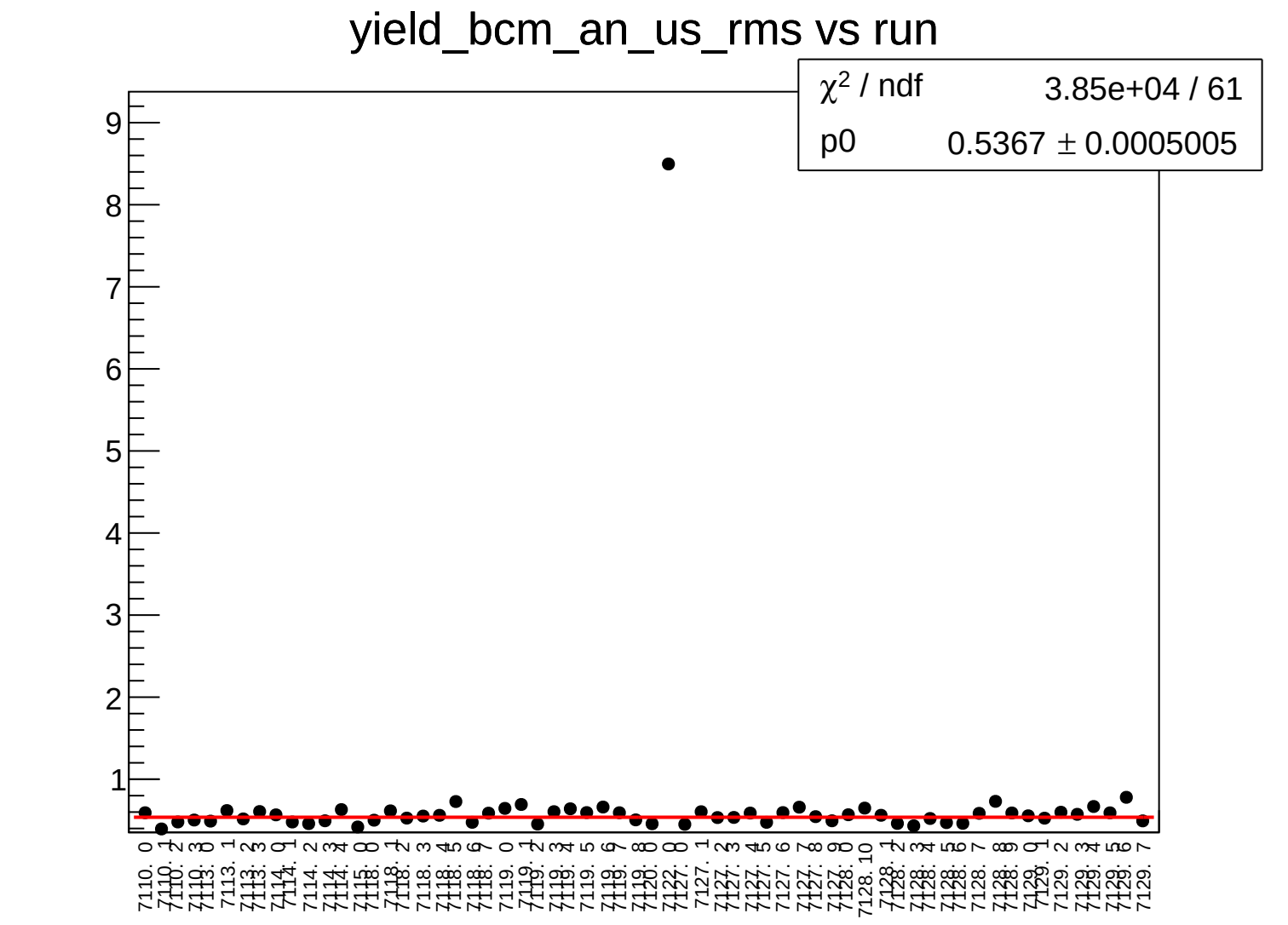

yield_bcm_an_ds3_mean vs run
χ² / ndf 4.611e+05 / 61
p0 148.7 ± 0.0007142
149
148
147
146
145
144
143
pull
Entries 62
Mean 1257
Std Dev 1233
150
100
50
0
−50
−100
−150
−200

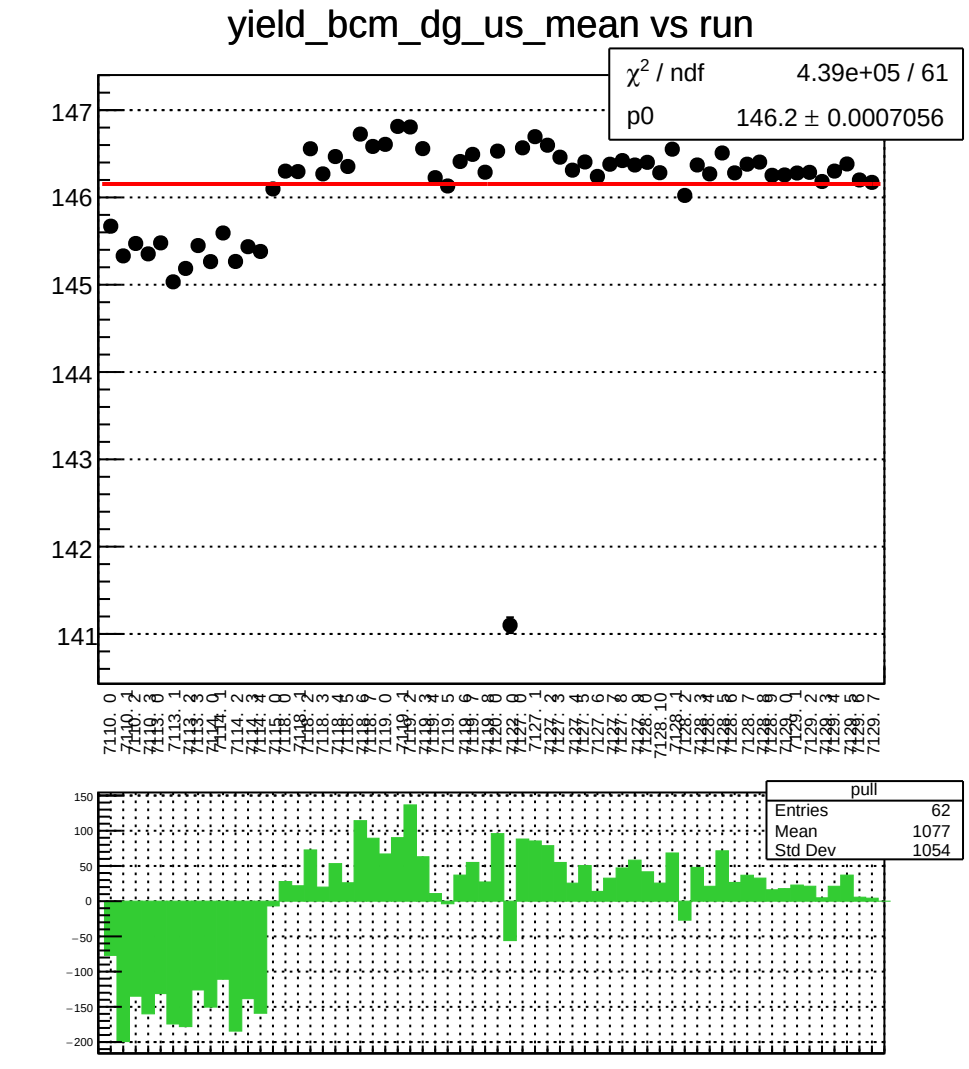

pull1D
Entries 62
Mean −1.369
Std Dev 3.367
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

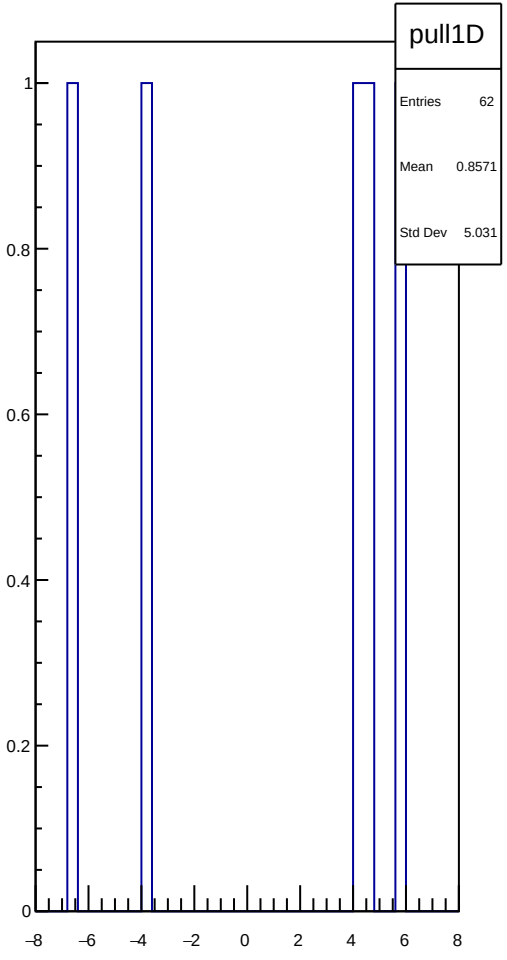

yield_bcm_an_ds3_rms vs run
χ^2 / ndf 3.849e+04 / 61
p0 0.5416 ± 0.000505
9
8
7
6
5
4
3
2
1
7110. 0
7110. 1
7110. 2
7110. 3
7110. 8
7113. 1
7113. 2
7113. 3
7113. 9
7114. 1
7114. 2
7114. 3
7114. 4
7115. 8
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 8
7122. 8
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

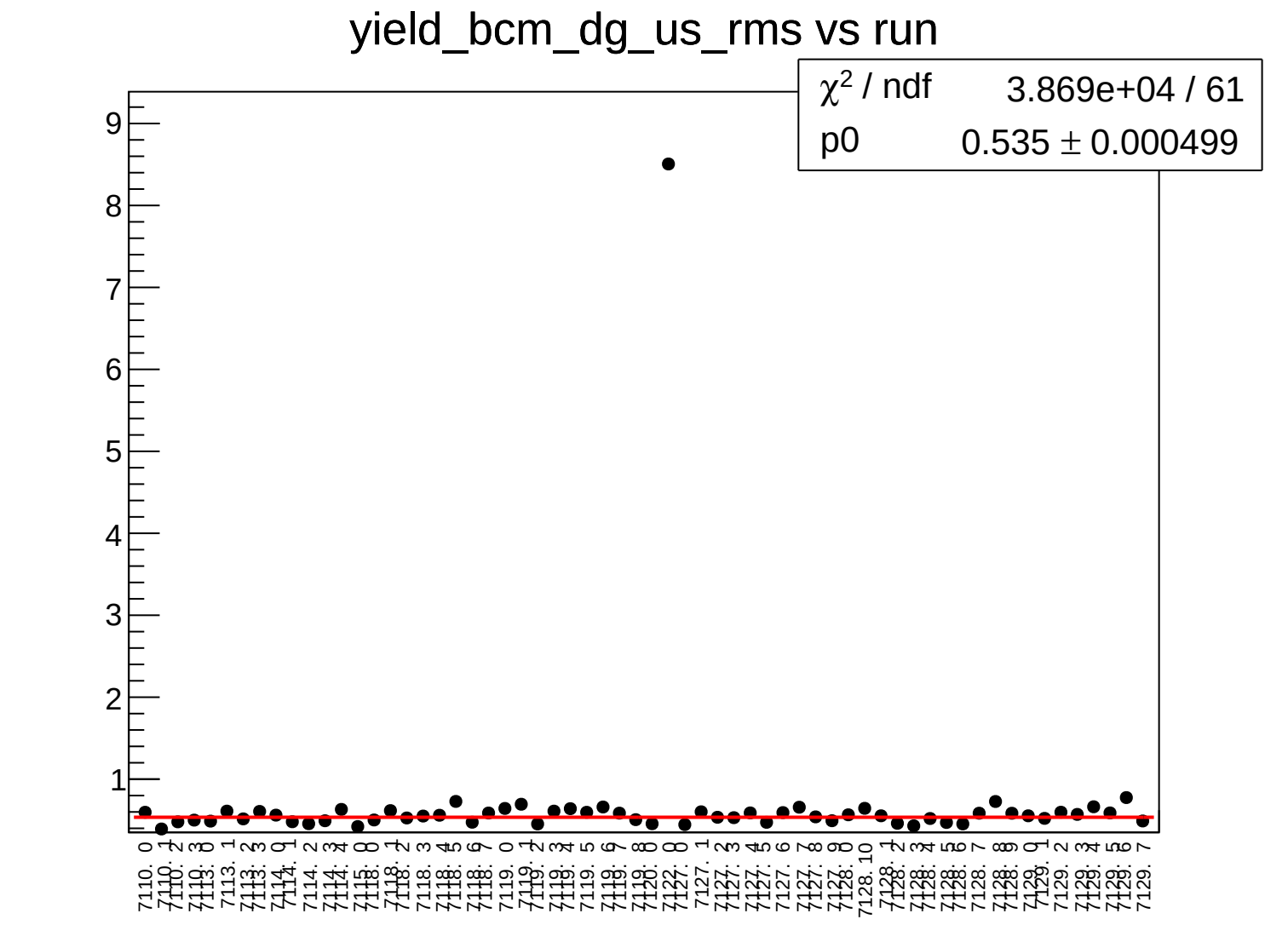

yield_bcm_an_us_mean vs run
χ² / ndf 4.511e+05 / 61
p0 147.8 ± 0.0007078
149
148
147
146
145
144
143
pull
Entries 62
Mean 1063
Std Dev 1040
150
100
50
0
−50
−100
−150
−200

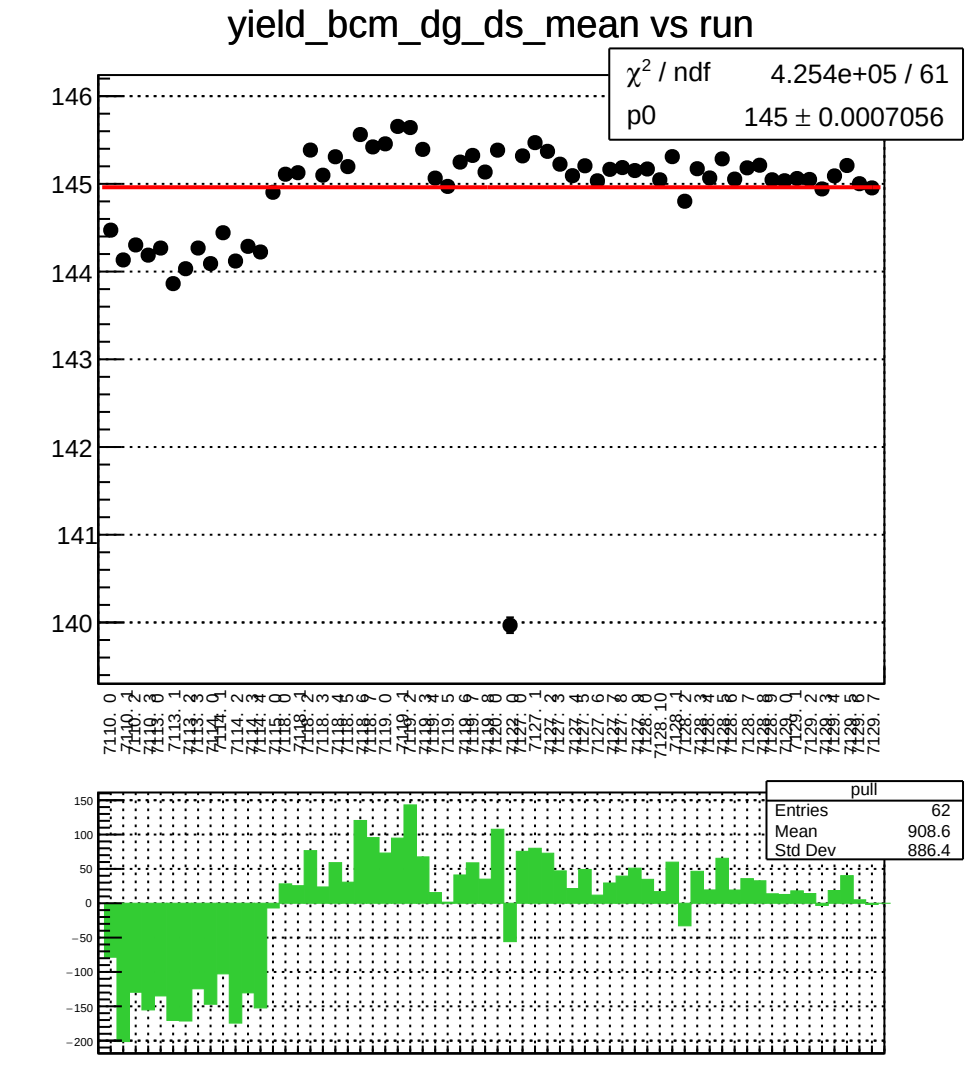

pull1D
Entries 62
Mean 2.709
Std Dev 4.675
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

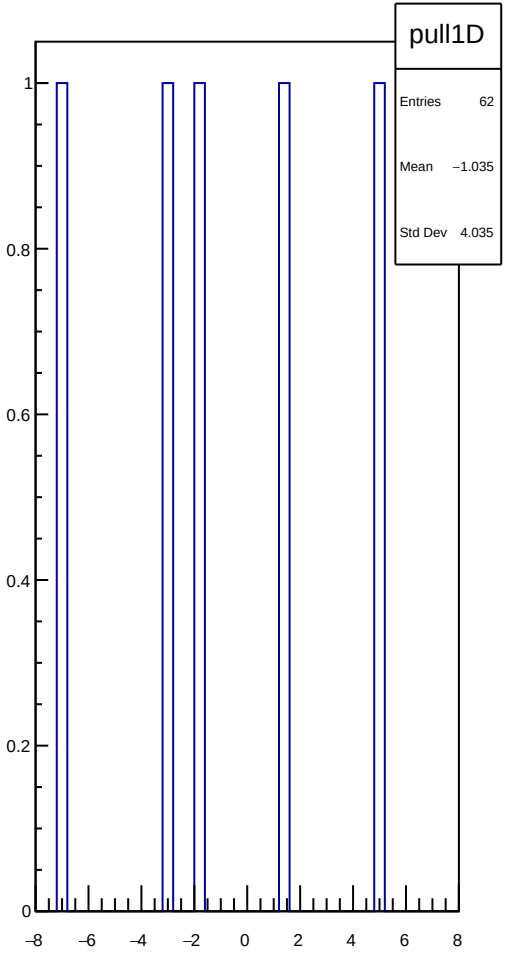

yield_bcm_an_us_rms vs run
χ^2 / ndf 3.85e+04 / 61
p0 0.5367 ± 0.0005005
9
8
7
6
5
4
3
2
1
7110. 0
7110. 1
7110. 2
7110. 3
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7115. 1
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

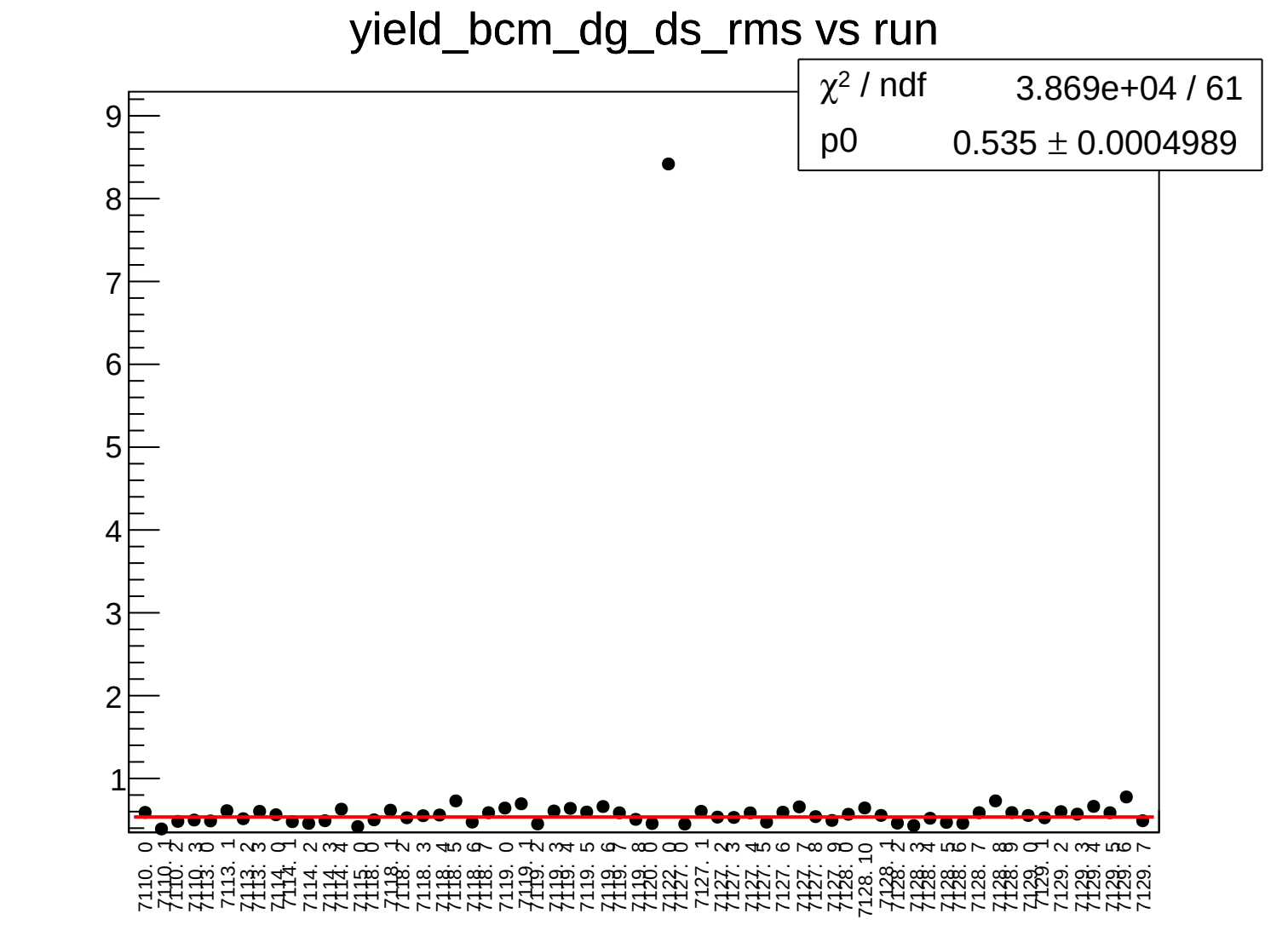

yield_bcm_dg_us_mean vs run
χ² / ndf 4.39e+05 / 61
p0 146.2 ± 0.0007056
147
146
145
144
143
142
141
pull
Entries 62
Mean 1077
Std Dev 1054
150
100
50
0
−50
−100
−150
−200

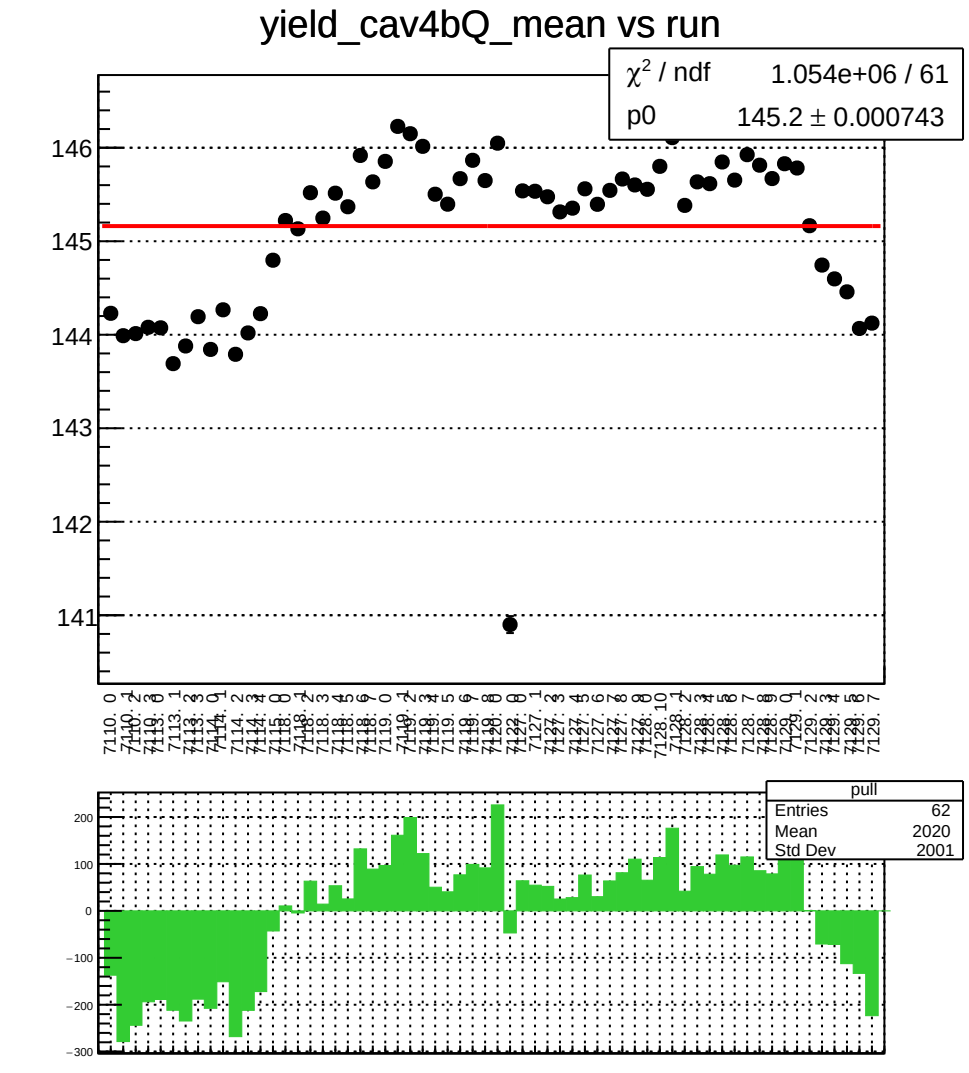

pull1D
Entries 62
Mean 0.8571
Std Dev 5.031
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

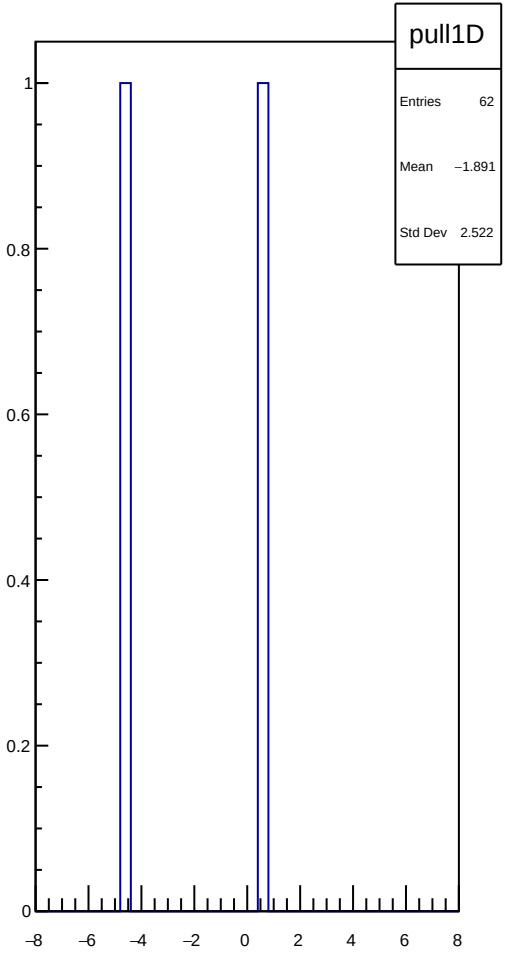

yield_bcm_dg_us_rms vs run
χ^2 / ndf 3.869e+04 / 61
p0 0.535 ± 0.000499
9
8
7
6
5
4
3
2
1

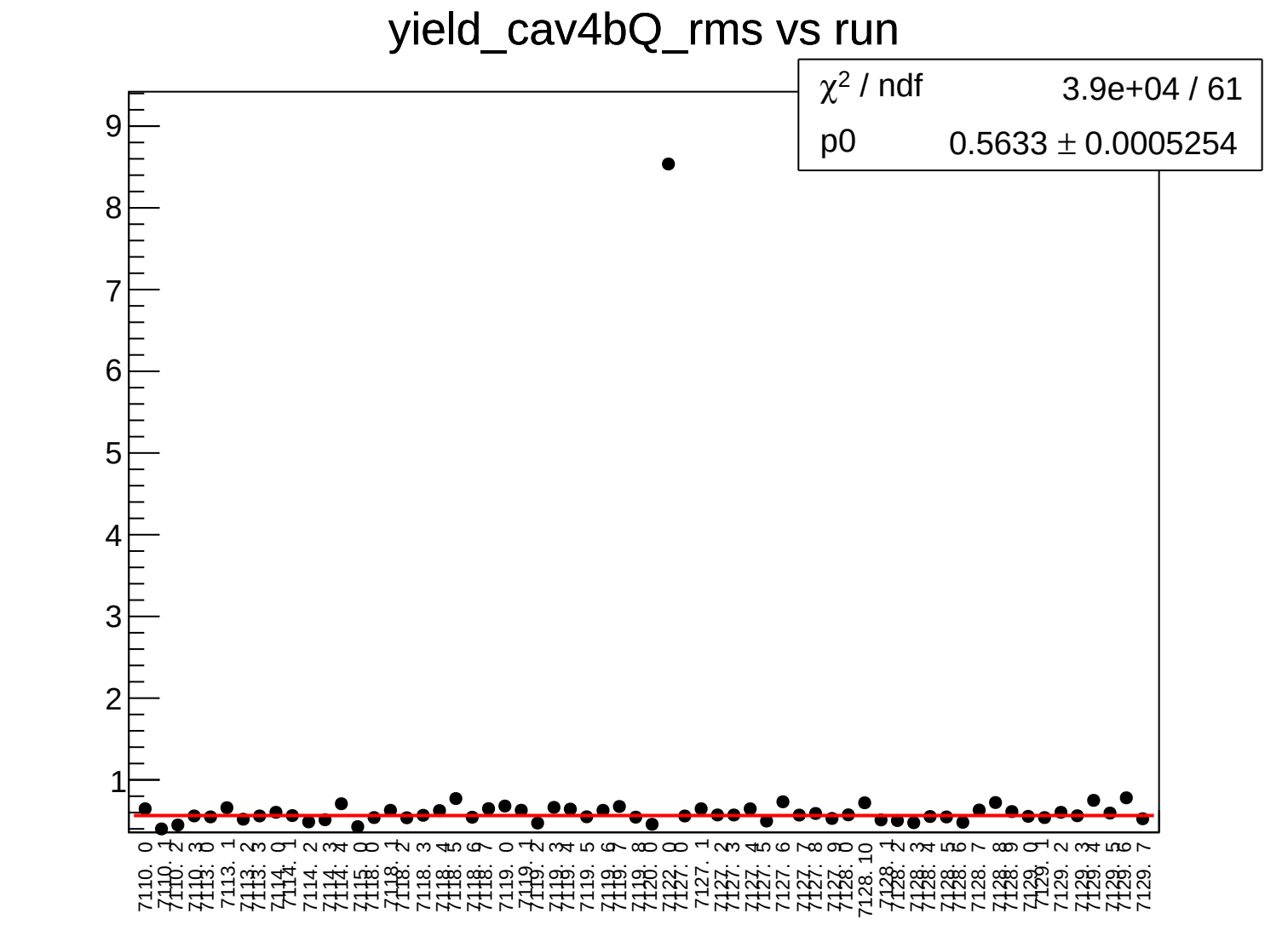

yield_bcm_dg_ds_mean vs run
χ² / ndf 4.254e+05 / 61
p0 145 ± 0.0007056
146
145
144
143
142
141
140
pull
Entries 62
Mean 908.6
Std Dev 886.4
150
100
50
0
−50
−100
−150
−200

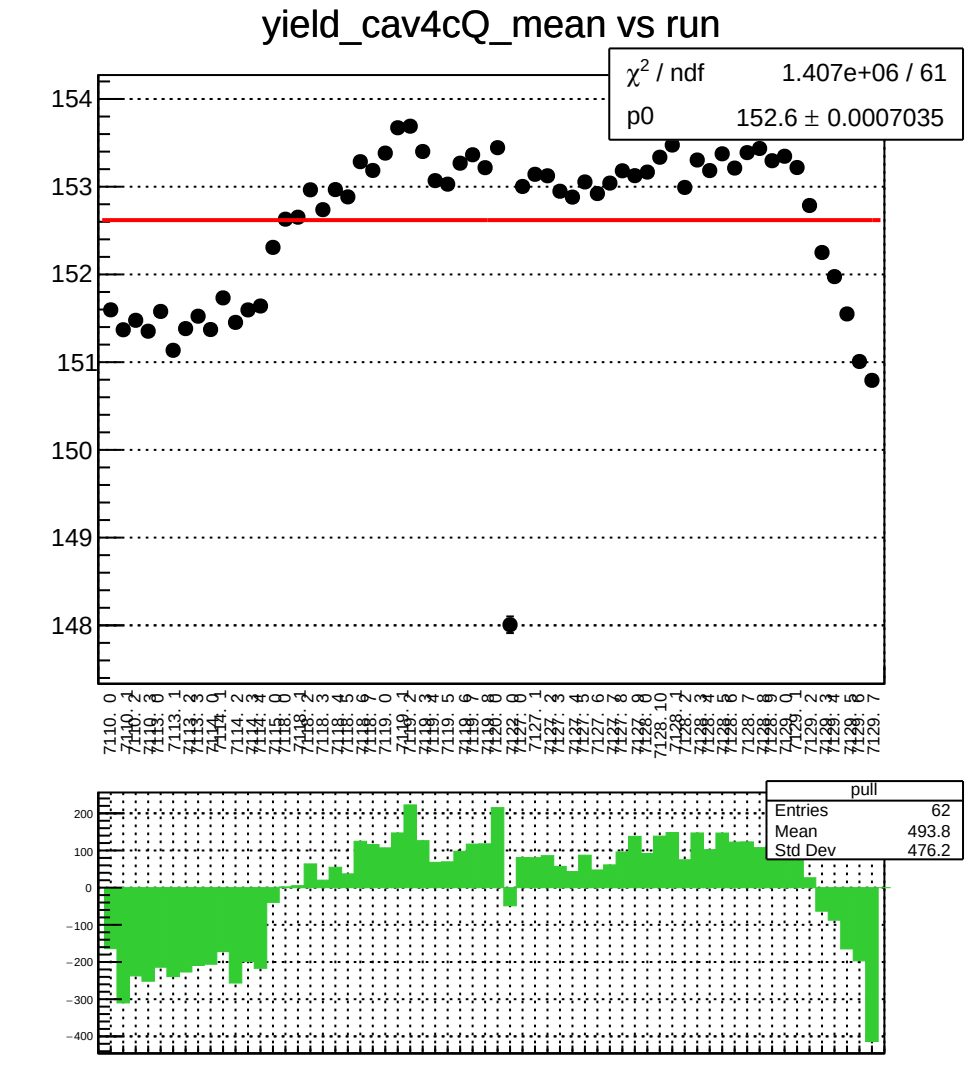

pull1D
Entries 62
Mean −1.035
Std Dev 4.035
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

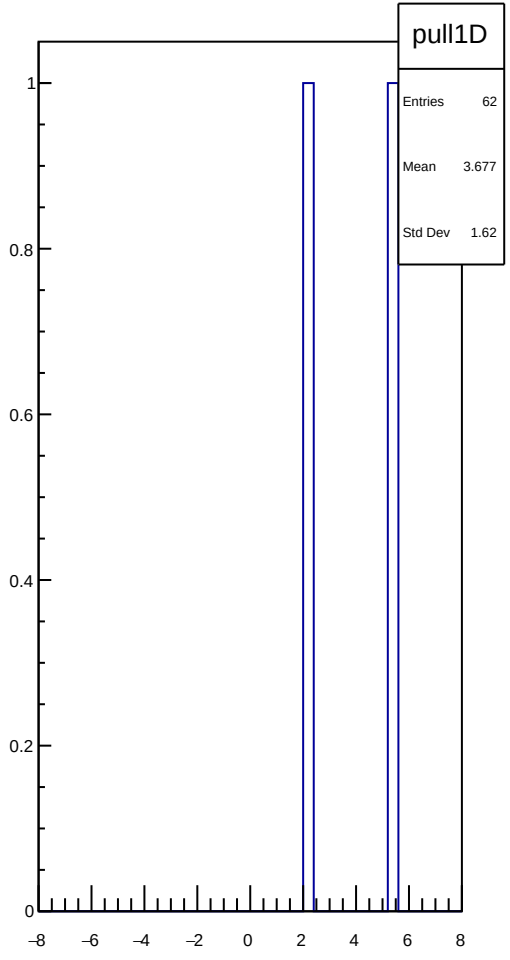

yield_bcm_dg_ds_rms vs run
χ² / ndf 3.869e+04 / 61
p0 0.535 ± 0.0004989
9
8
7
6
5
4
3
2
1
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 1
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

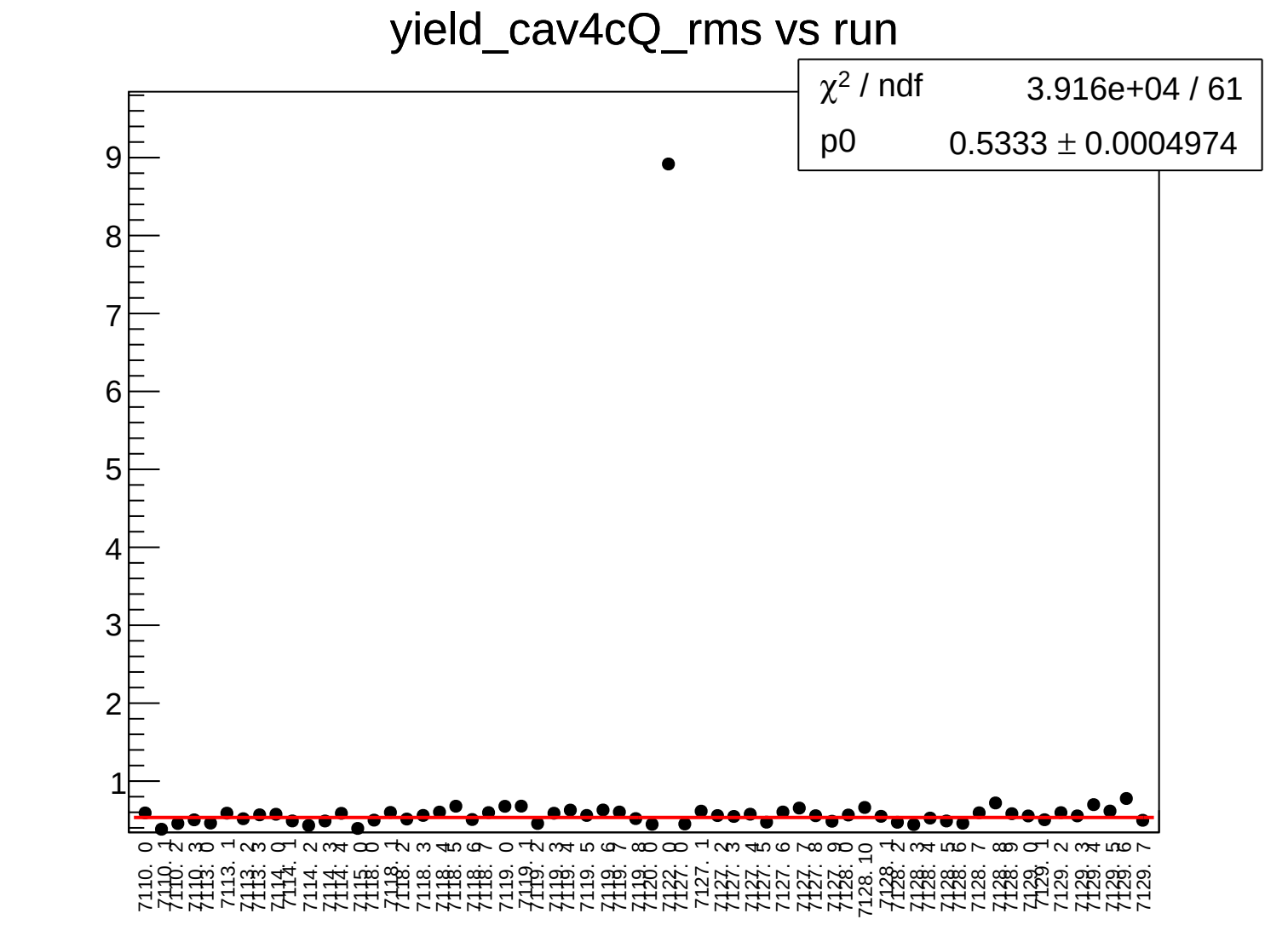

yield_cav4bQ_mean vs run
χ² / ndf 1.054e+06 / 61
p0 145.2 ± 0.000743
146
145
144
143
142
141
pull
Entries 62
Mean 2020
Std Dev 2001
200
100
0
−100
−200
−300

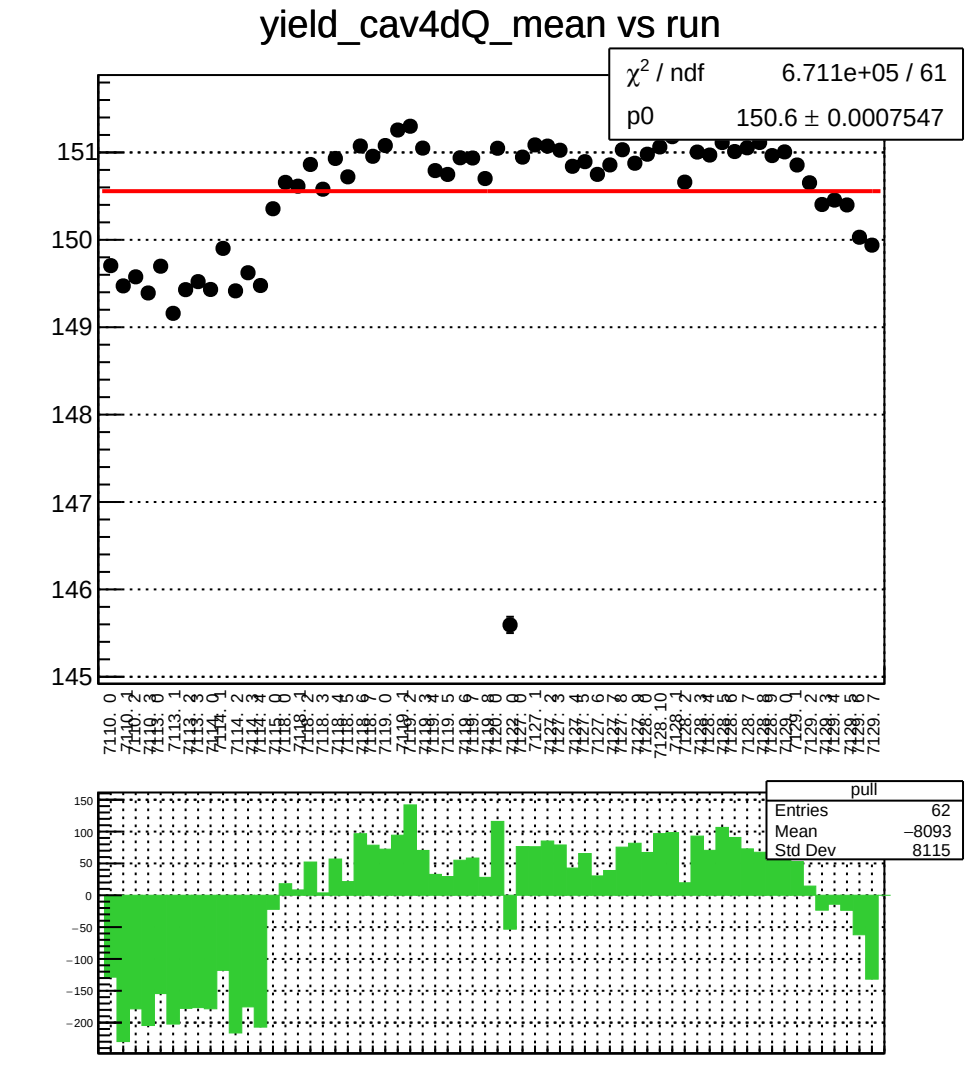

pull1D
Entries 62
Mean −1.891
Std Dev 2.522
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

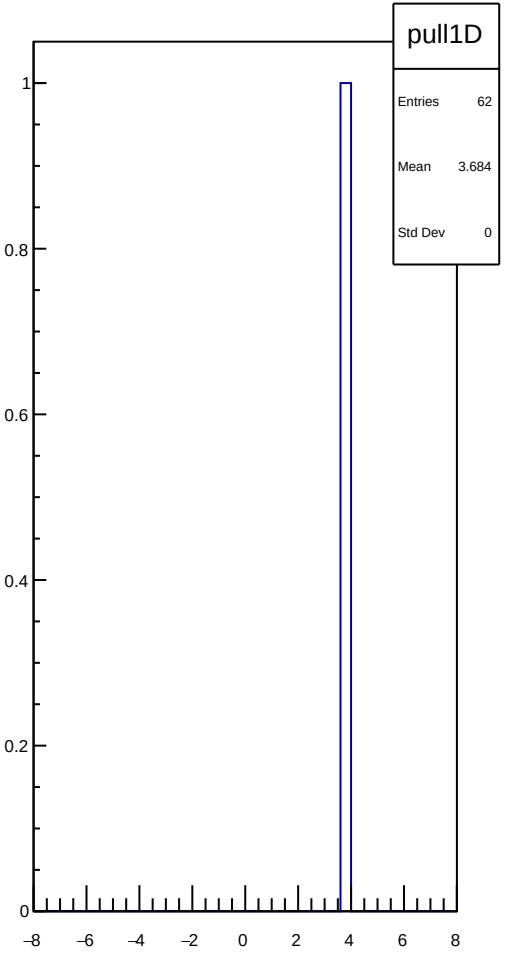

yield_cav4bQ_rms vs run
χ² / ndf 3.9e+04 / 61
p0 0.5633 ± 0.0005254
9
8
7
6
5
4
3
2
1
7110. 0
7110. 1
7110. 2
7110. 3
7110. 4
7113. 1
7113. 2
7113. 3
7113. 4
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

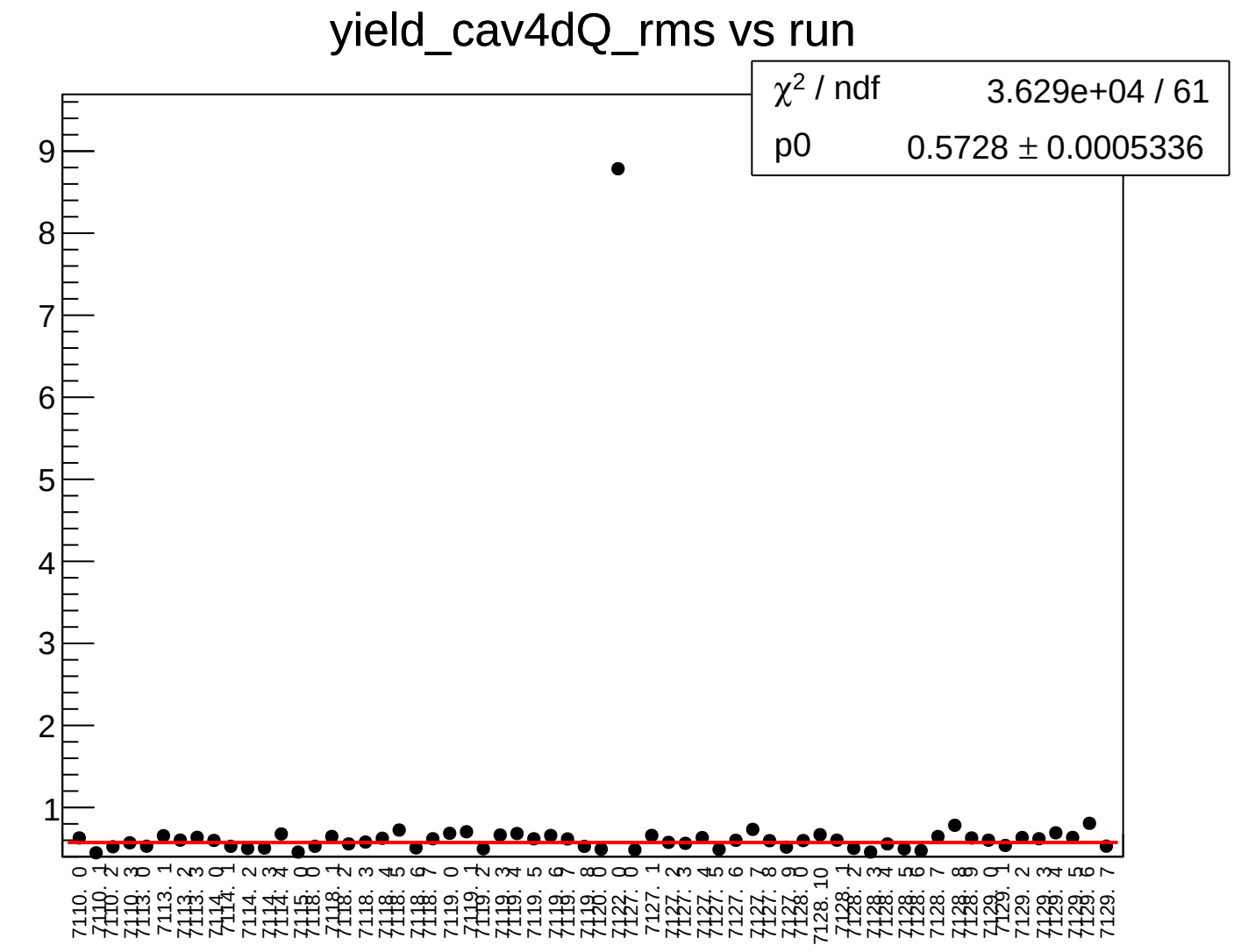

yield_cav4cQ_mean vs run
χ² / ndf 1.407e+06 / 61
p0 152.6 ± 0.0007035
154
153
152
151
150
149
148
pull
Entries 62
Mean 493.8
Std Dev 476.2
200
100
0
−100
−200
−300
−400

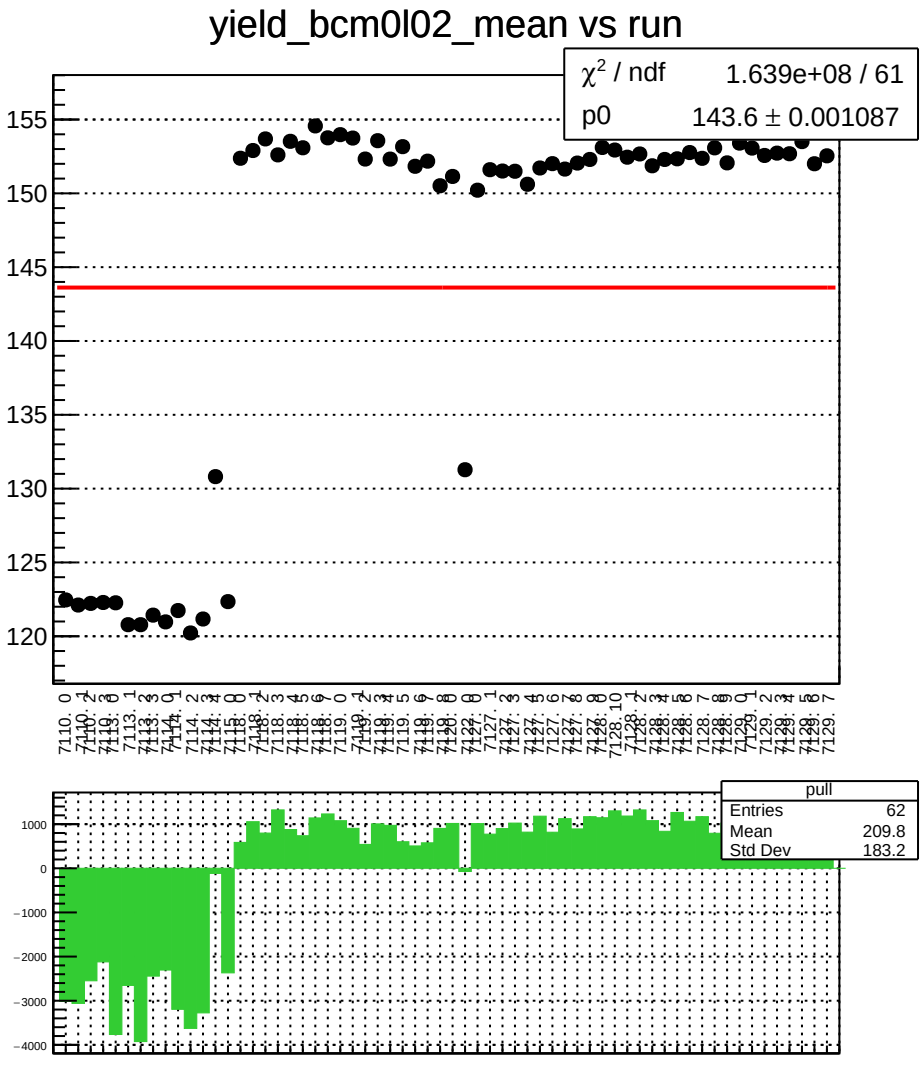

pull1D
Entries 62
Mean 3.677
Std Dev 1.62
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

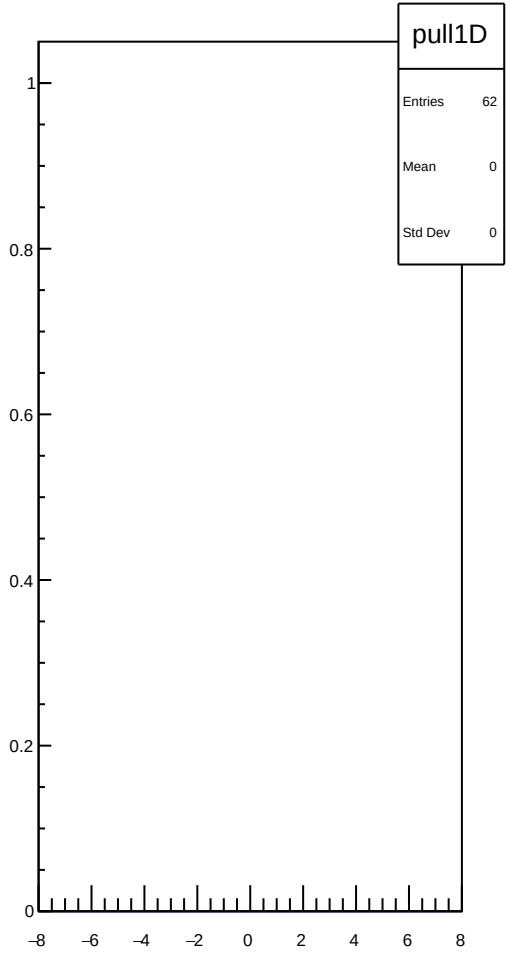

yield_cav4cQ_rms vs run
χ² / ndf 3.916e+04 / 61
p0 0.5333 ± 0.0004974
9
8
7
6
5
4
3
2
1
7110. 0
7110. 1
7110. 2
7110. 3
7110. 8
7113. 1
7113. 2
7113. 3
7113. 9
7114. 1
7114. 2
7114. 3
7114. 4
7115. 8
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 8
7122. 8
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

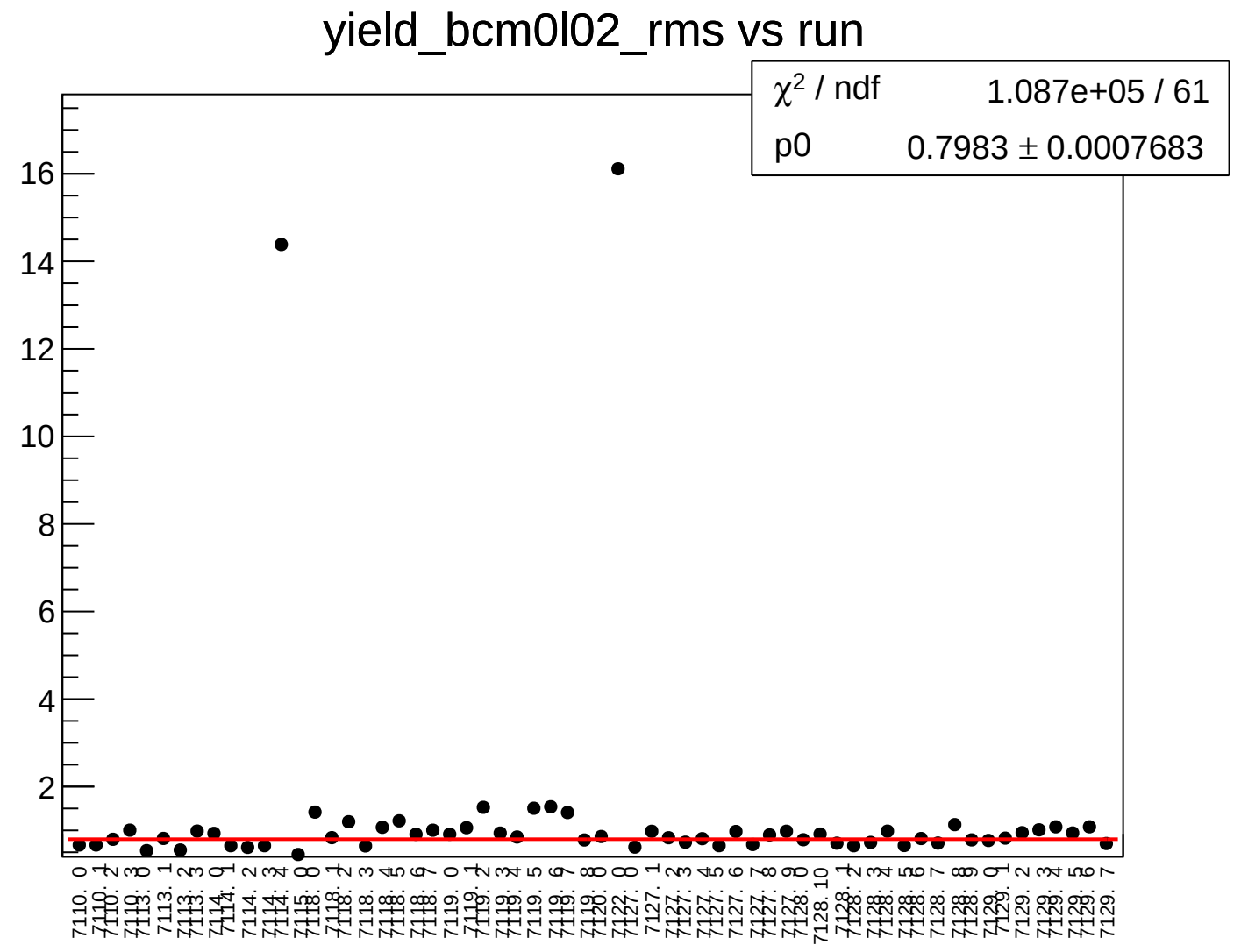

yield_cav4dQ_mean vs run
χ² / ndf 6.711e+05 / 61
p0 150.6 ± 0.0007547
151
150
149
148
147
146
145
pull
Entries 62
Mean −8093
Std Dev 8115
150
100
50
0
−50
−100
−150
−200

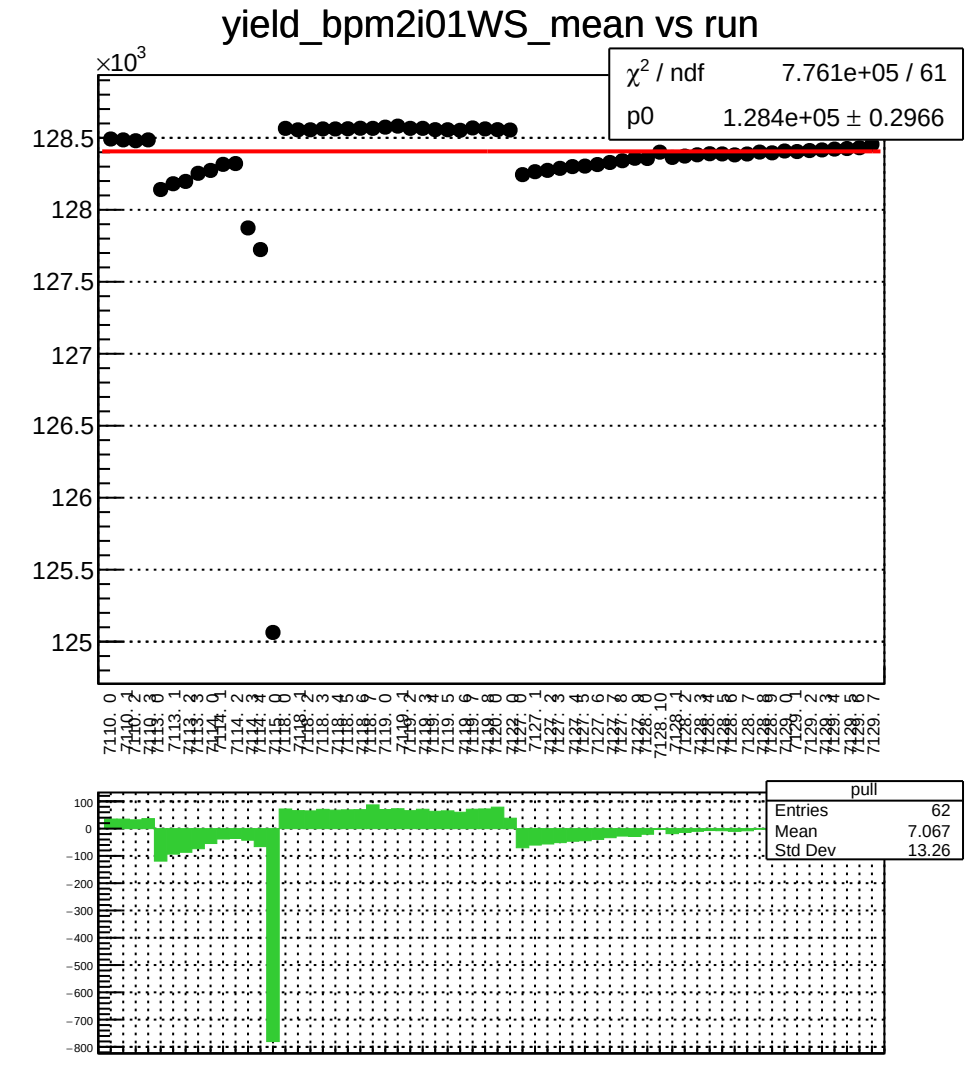

pull1D
Entries 62
Mean 3.684
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

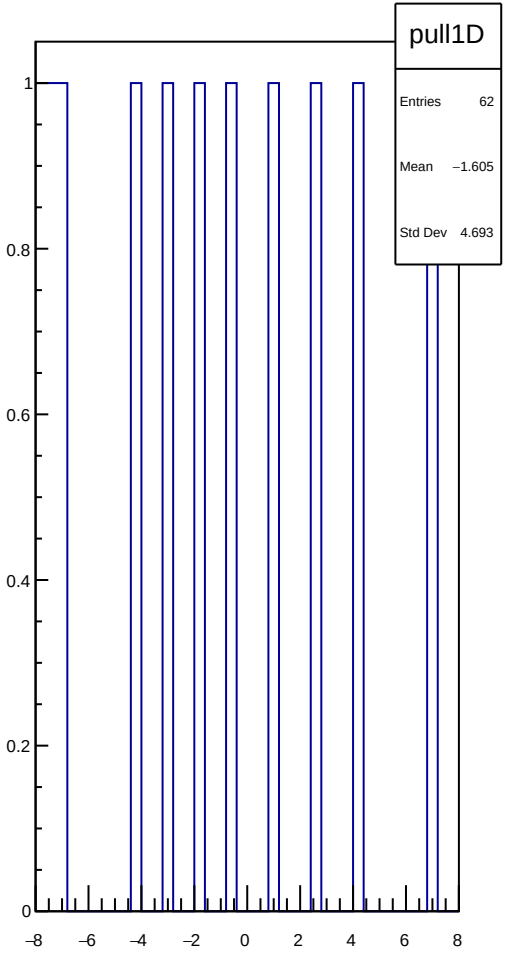

yield_cav4dQ_rms vs run
χ² / ndf 3.629e+04 / 61
p0 0.5728 ± 0.0005336
9
8
7
6
5
4
3
2
1
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

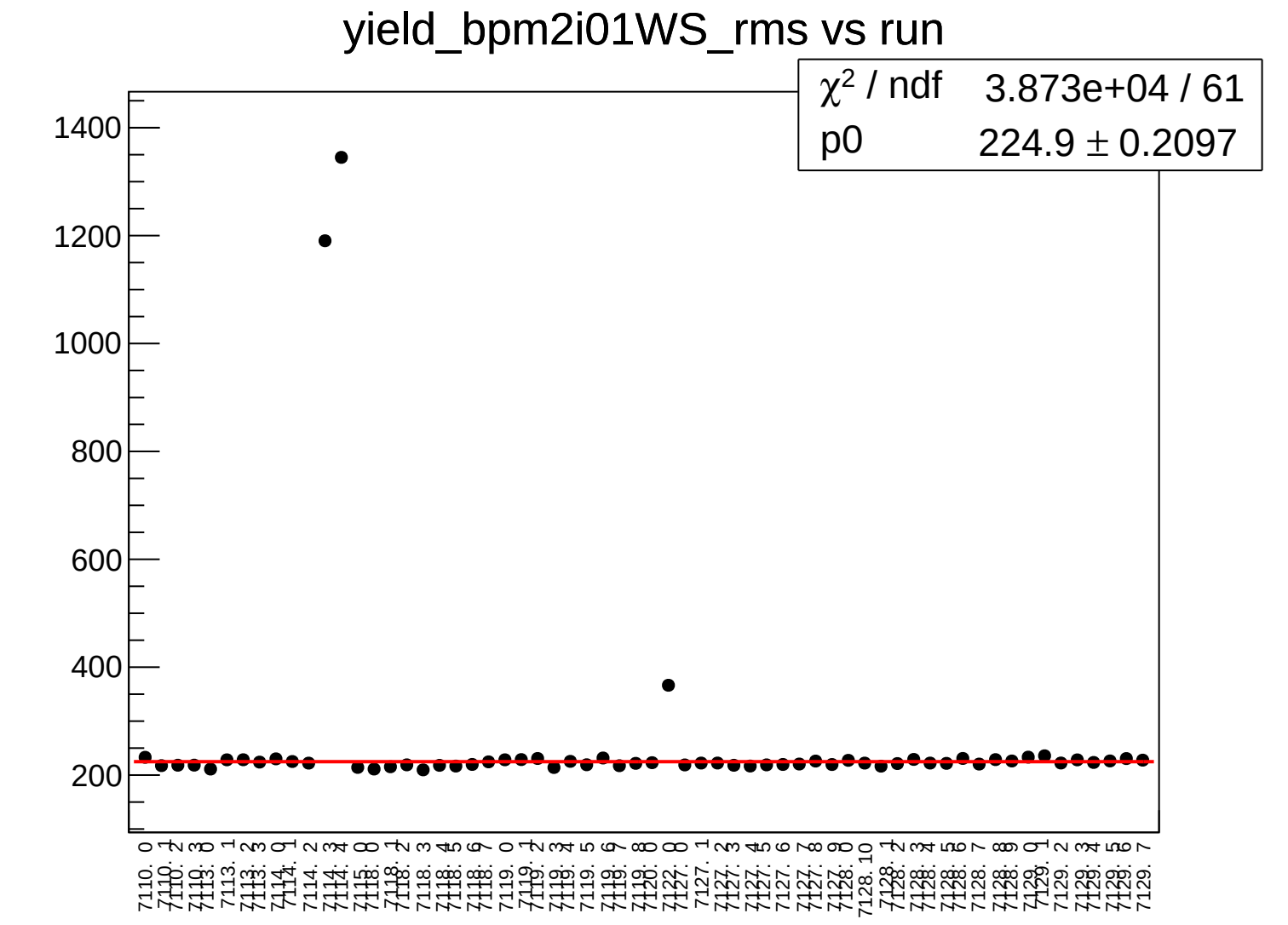

yield_bcm0l02_mean vs run
χ² / ndf 1.639e+08 / 61
p0 143.6 ± 0.001087
155
150
145
140
135
130
125
120
pull
Entries 62
Mean 209.8
Std Dev 183.2
1000
0
−1000
−2000
−3000
−4000

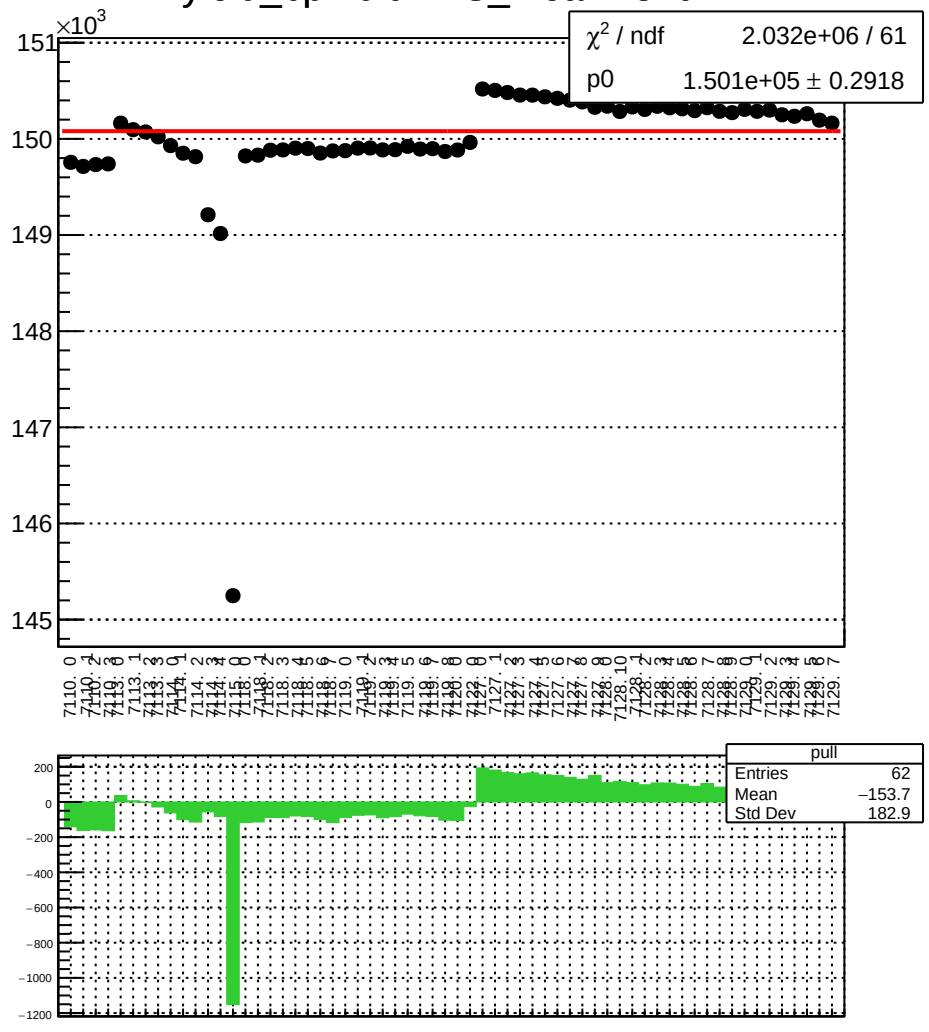

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

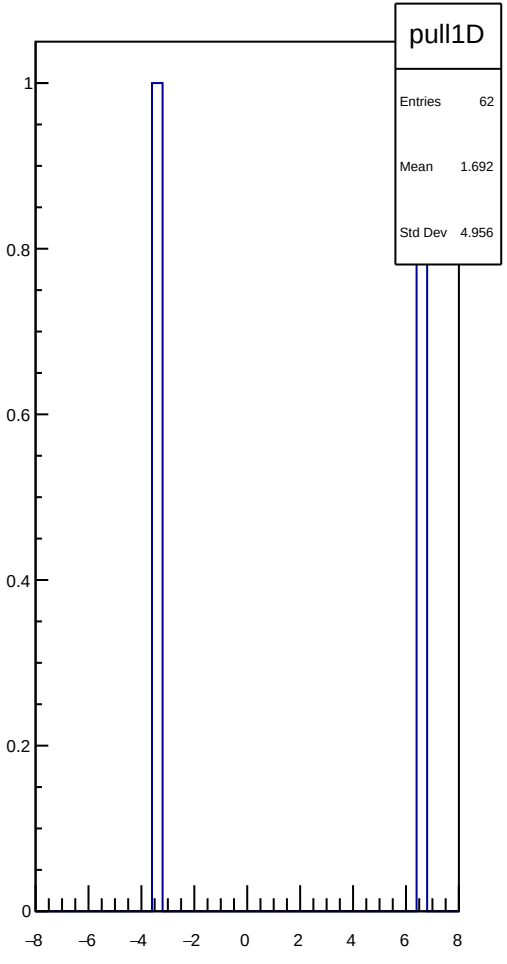

yield_bcm0l02_rms vs run
χ² / ndf 1.087e+05 / 61
p0 0.7983 ± 0.0007683
16
14
12
10
8
6
4
2

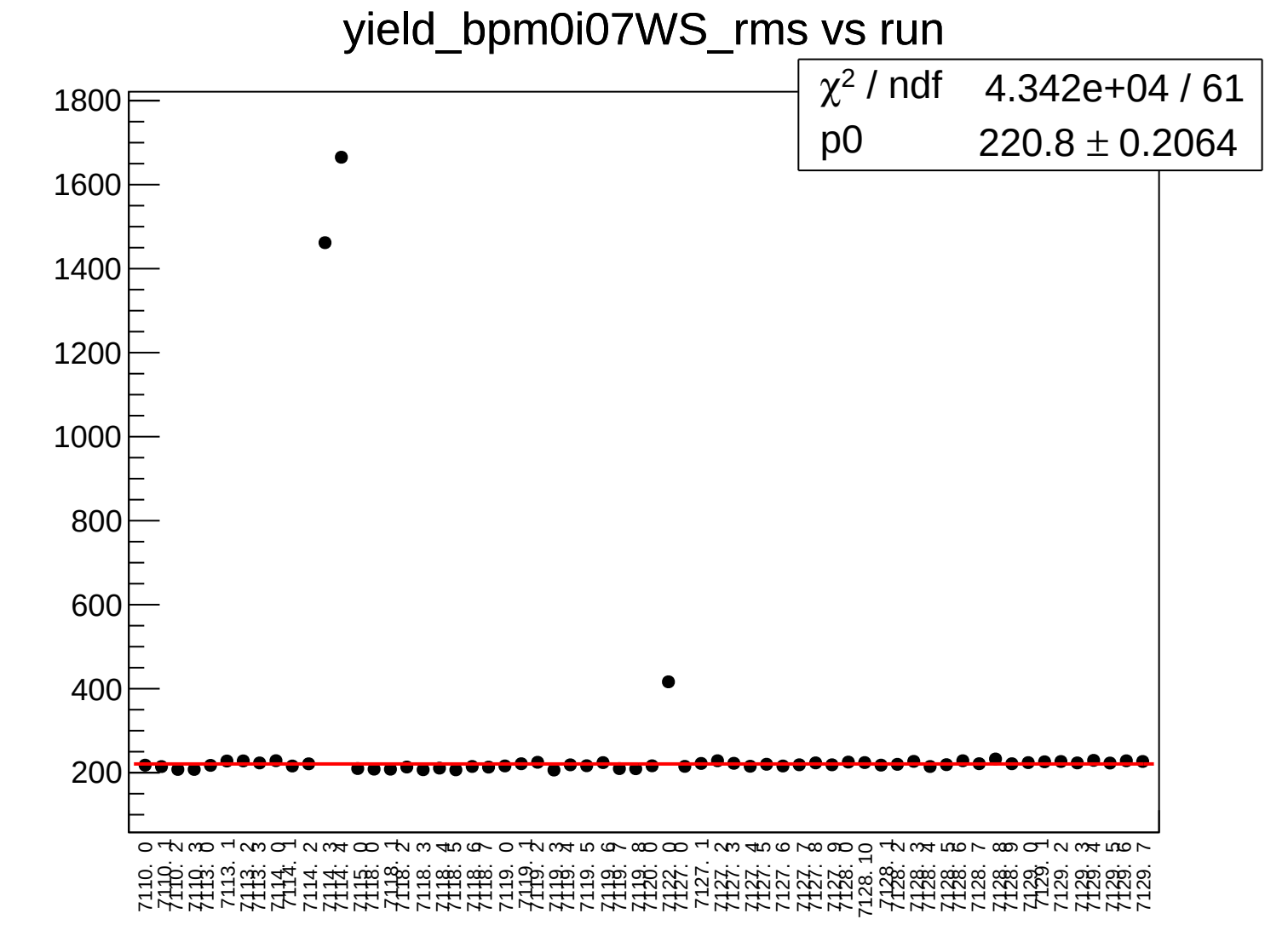

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 7.761e+05 / 61
p0 1.284e+05 ± 0.2966
128.5
128
127.5
127
126.5
126
125.5
125
pull
Entries 62
Mean 7.067
Std Dev 13.26
100
0
−100
−200
−300
−400
−500
−600
−700
−800

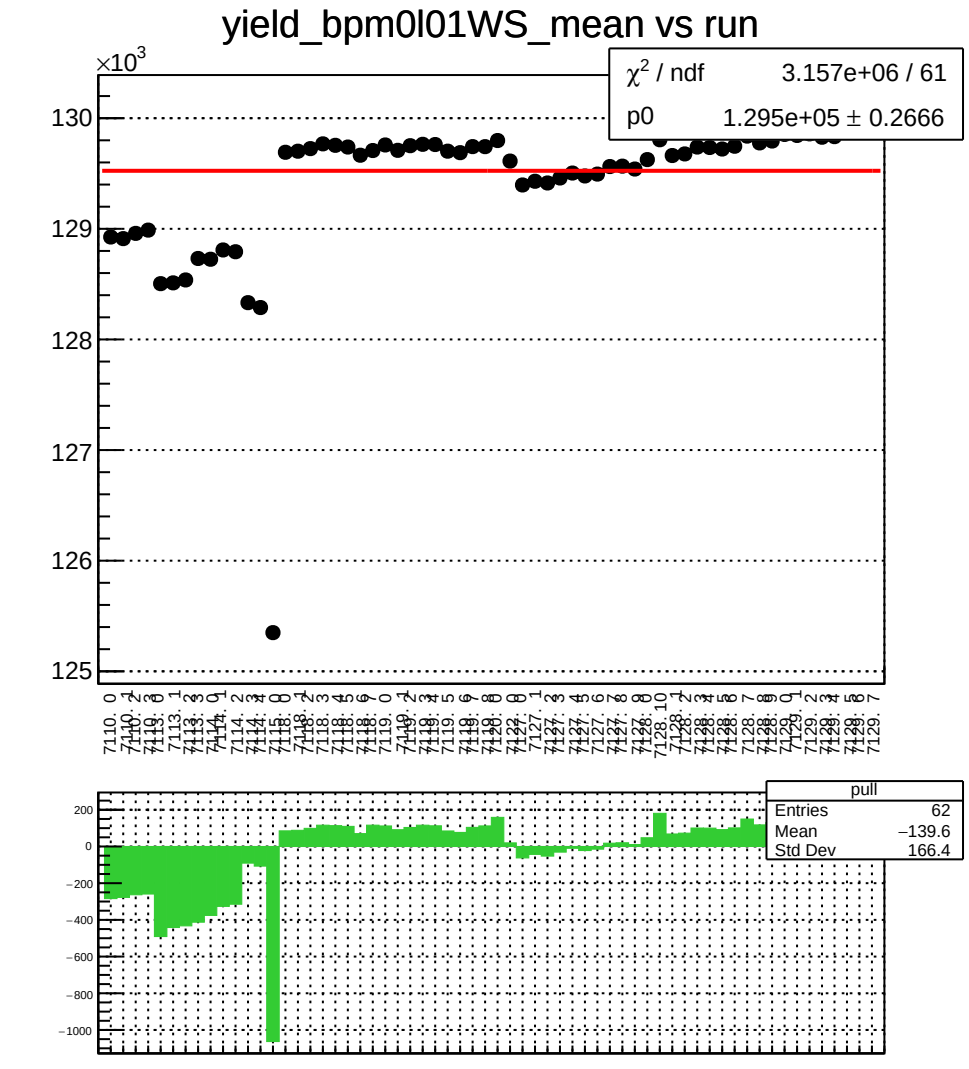

pull1D
Entries 62
Mean −1.605
Std Dev 4.693
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

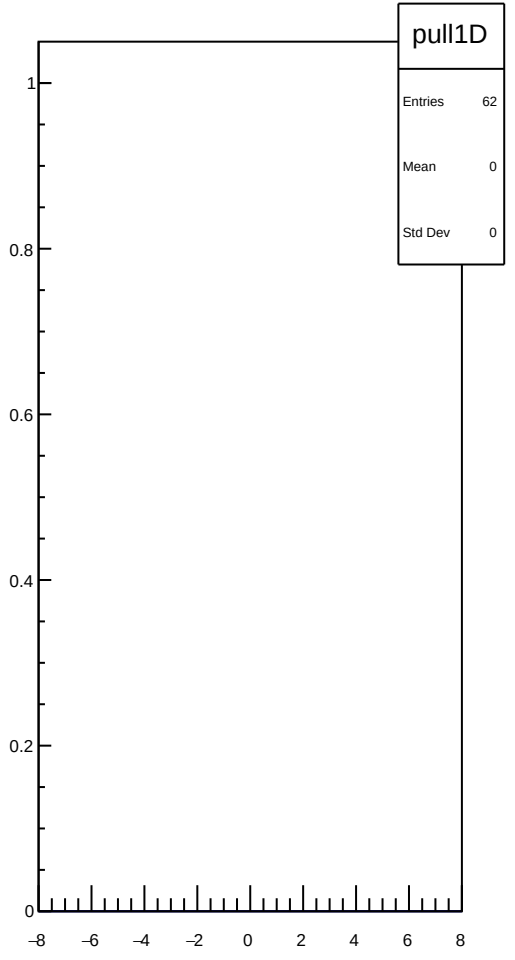

yield_bpm2i01WS_rms vs run
χ² / ndf 3.873e+04 / 61
p0 224.9 ± 0.2097
1400
1200
1000
800
600
400
200

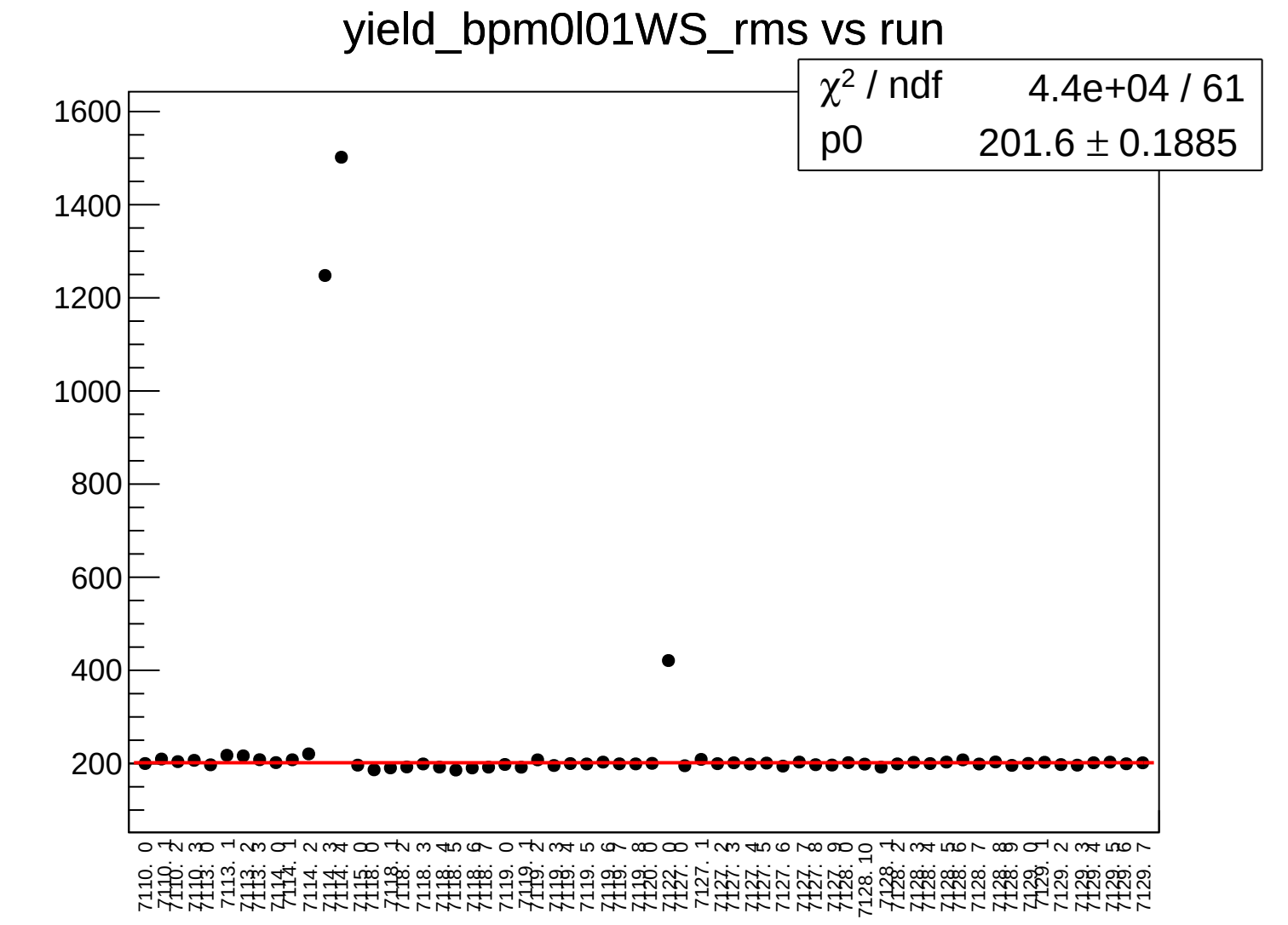

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 2.032e+06 / 61
p0 1.501e+05 ± 0.2918
151
150
149
148
147
146
145
pull
Entries 62
Mean −153.7
Std Dev 182.9
200
0
−200
−400
−600
−800
−1000
−1200

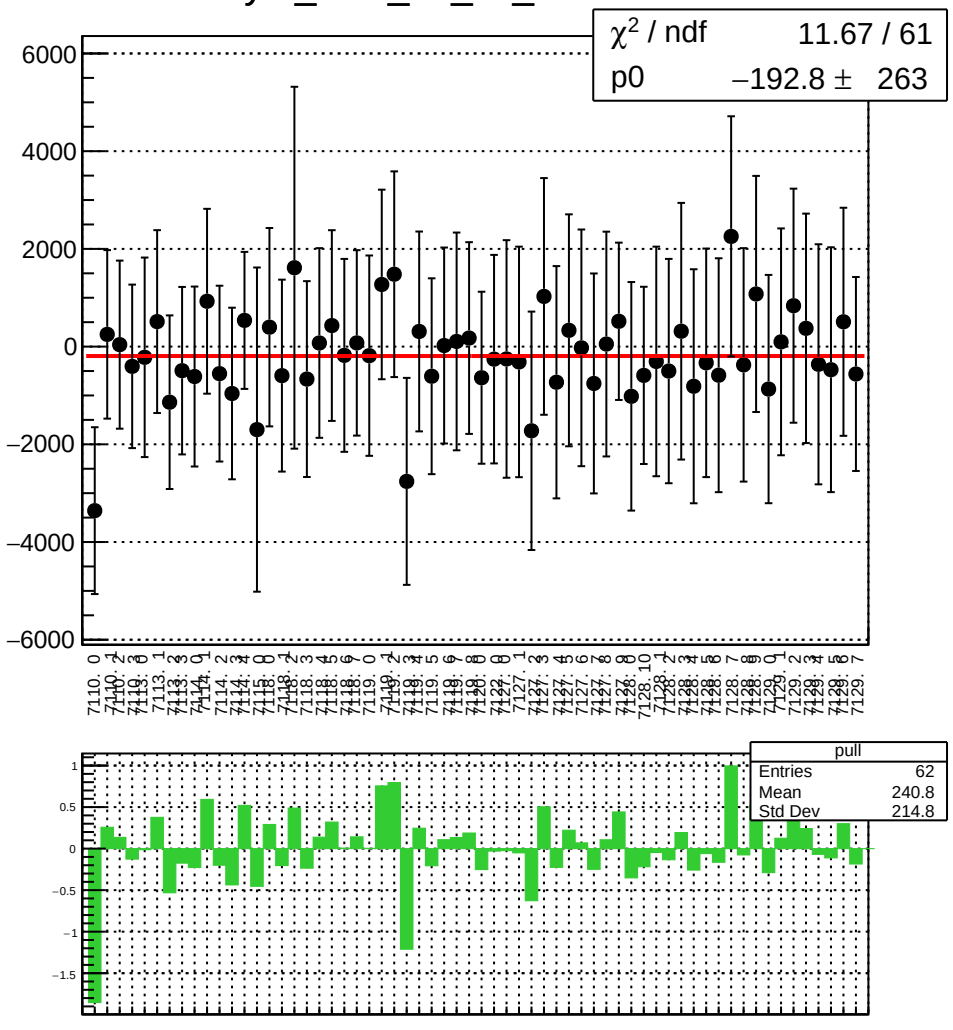

pull1D
Entries 62
Mean 1.692
Std Dev 4.956
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

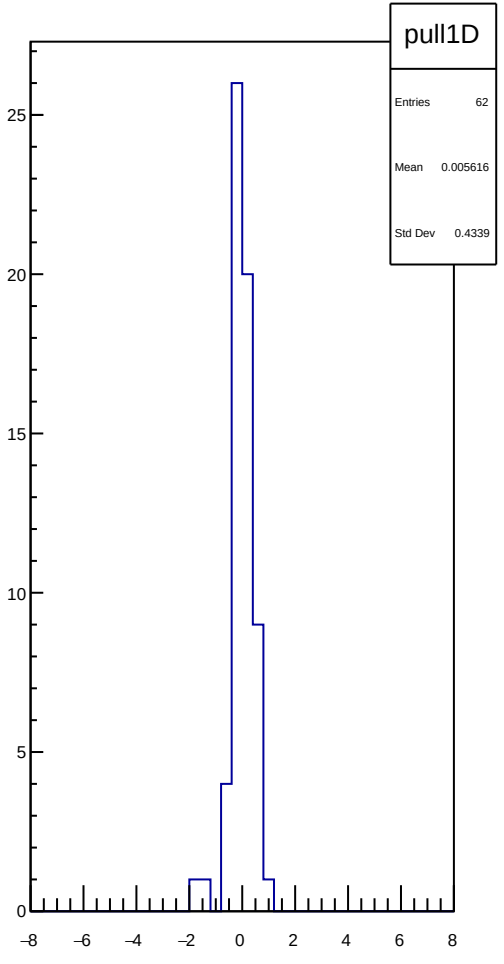

yield_bpm0i07WS_rms vs run
χ² / ndf 4.342e+04 / 61
p0 220.8 ± 0.2064
1800
1600
1400
1200
1000
800
600
400
200
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

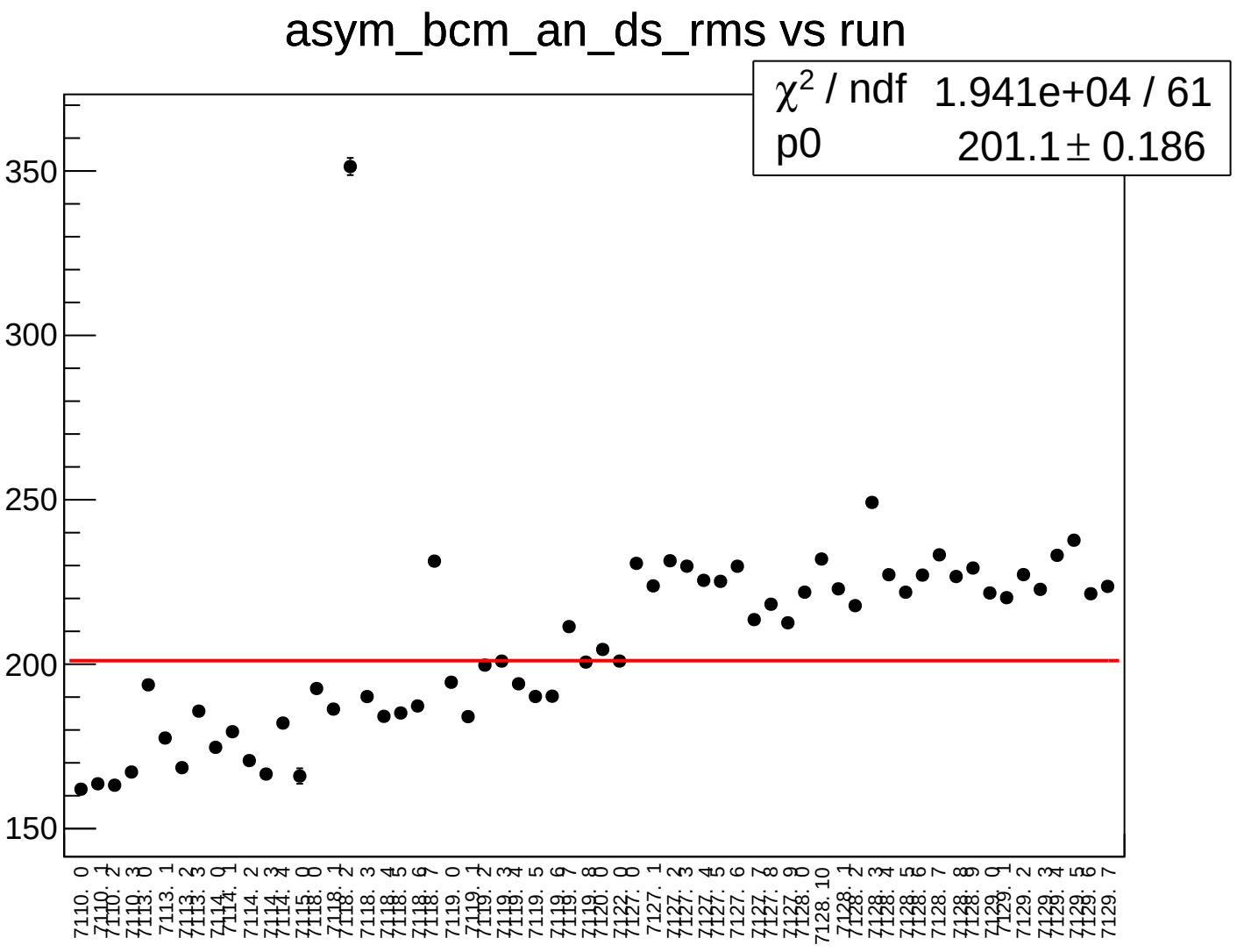

yield_bpm0l01WS_mean vs run
×10^3
130
129
128
127
126
125
χ² / ndf 3.157e+06 / 61
p0 1.295e+05 ± 0.2666
pull
Entries 62
Mean −139.6
Std Dev 166.4
200
0
−200
−400
−600
−800
−1000

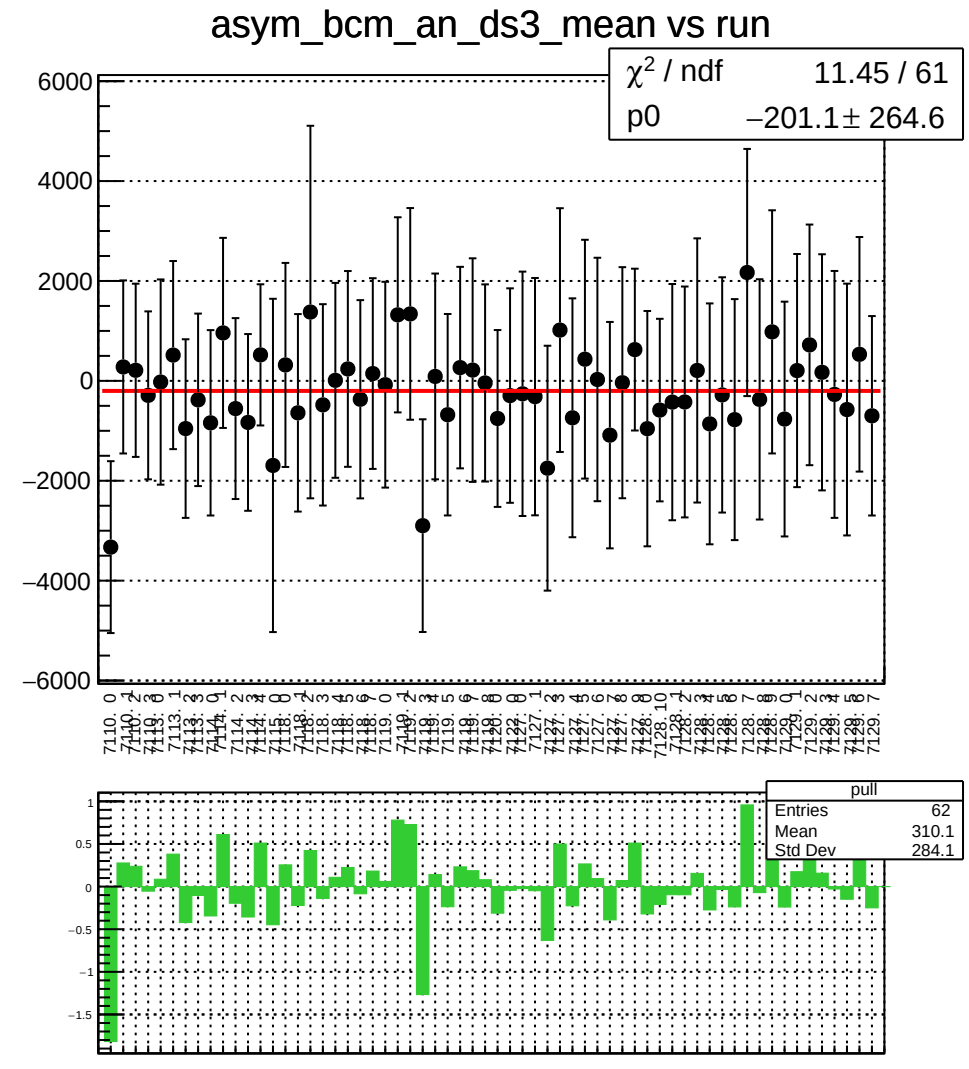

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

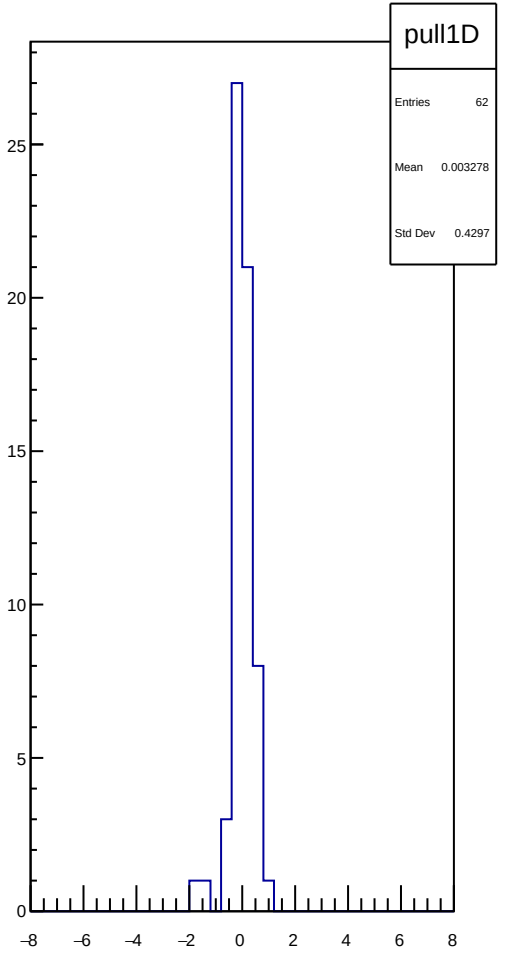

yield_bpm0l01WS_rms vs run
χ² / ndf 4.4e+04 / 61
p0 201.6 ± 0.1885
1600
1400
1200
1000
800
600
400
200
7110. 0
7110. 1
7110. 2
7110. 3
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

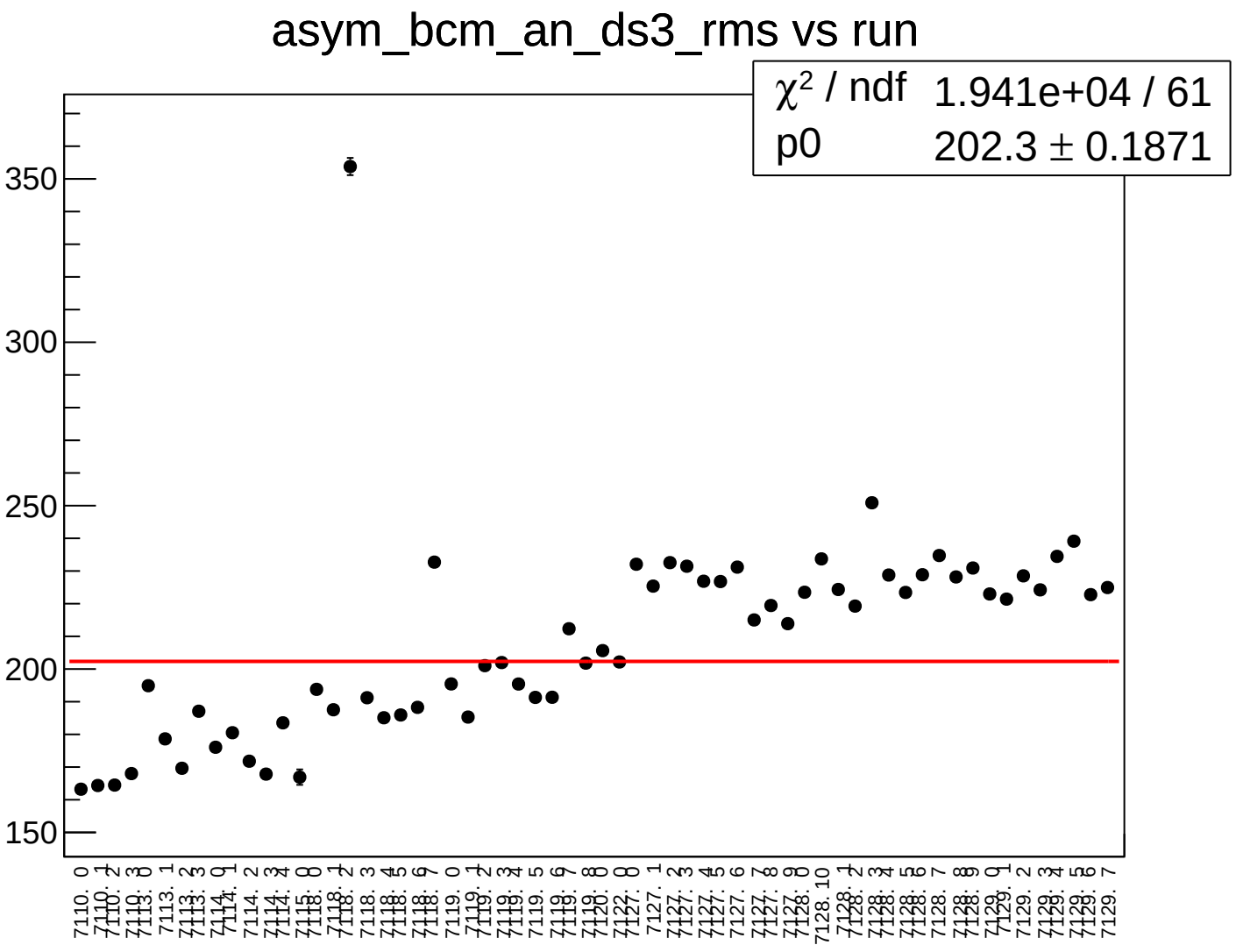

asym_bcm_an_ds_mean vs run
χ² / ndf 11.67 / 61
p0 −192.8 ± 263
pull
Entries 62
Mean 240.8
Std Dev 214.8

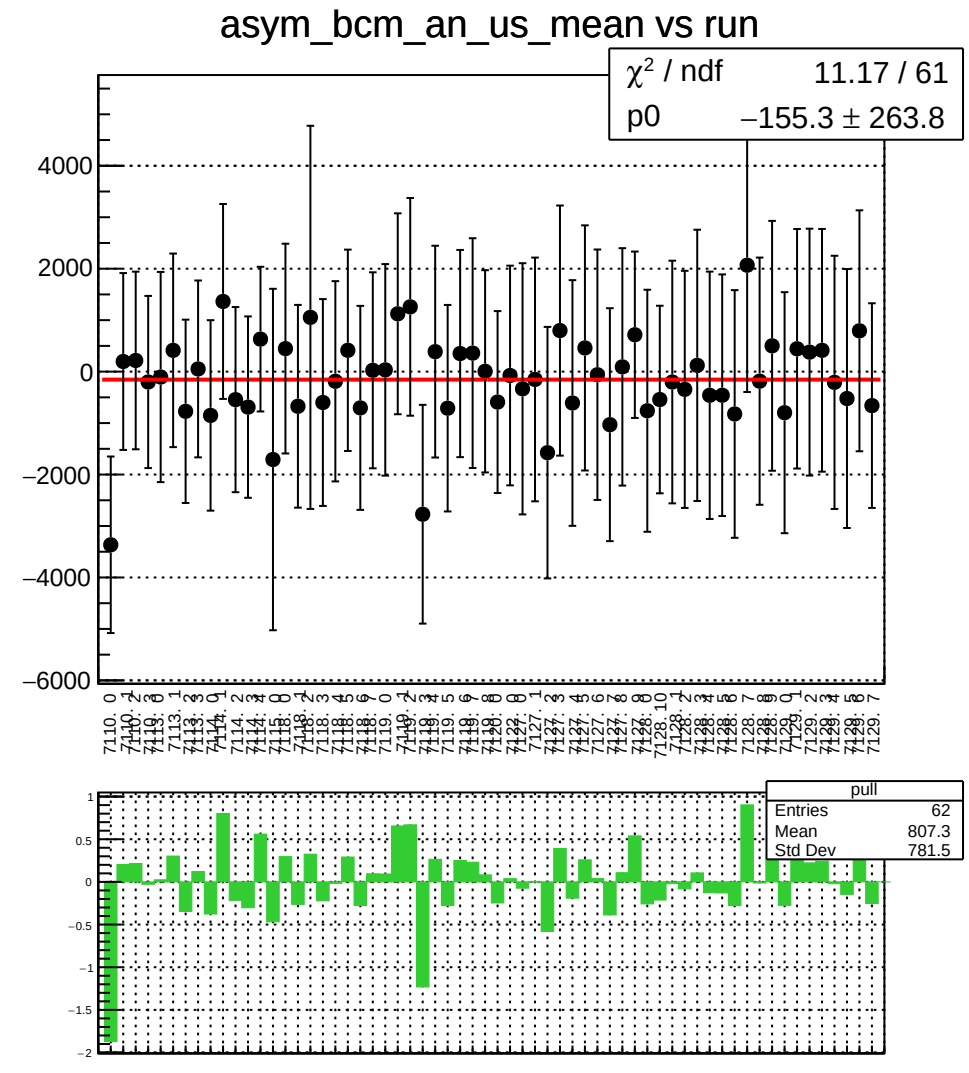

pull1D
Entries 62
Mean 0.005616
Std Dev 0.4339

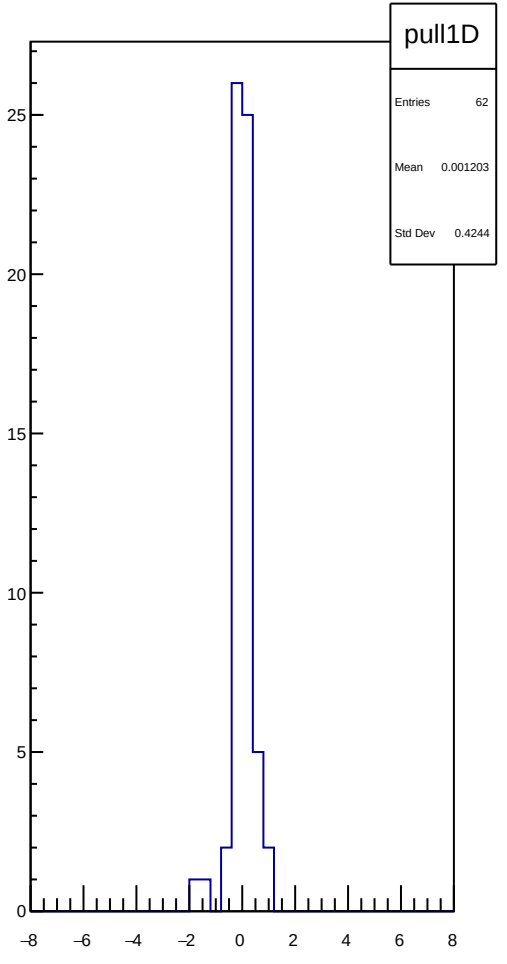

asym_bcm_an_ds_rms vs run
χ^2 / ndf 1.941e+04 / 61
p0 201.1 ± 0.186
350
300
250
200
150
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

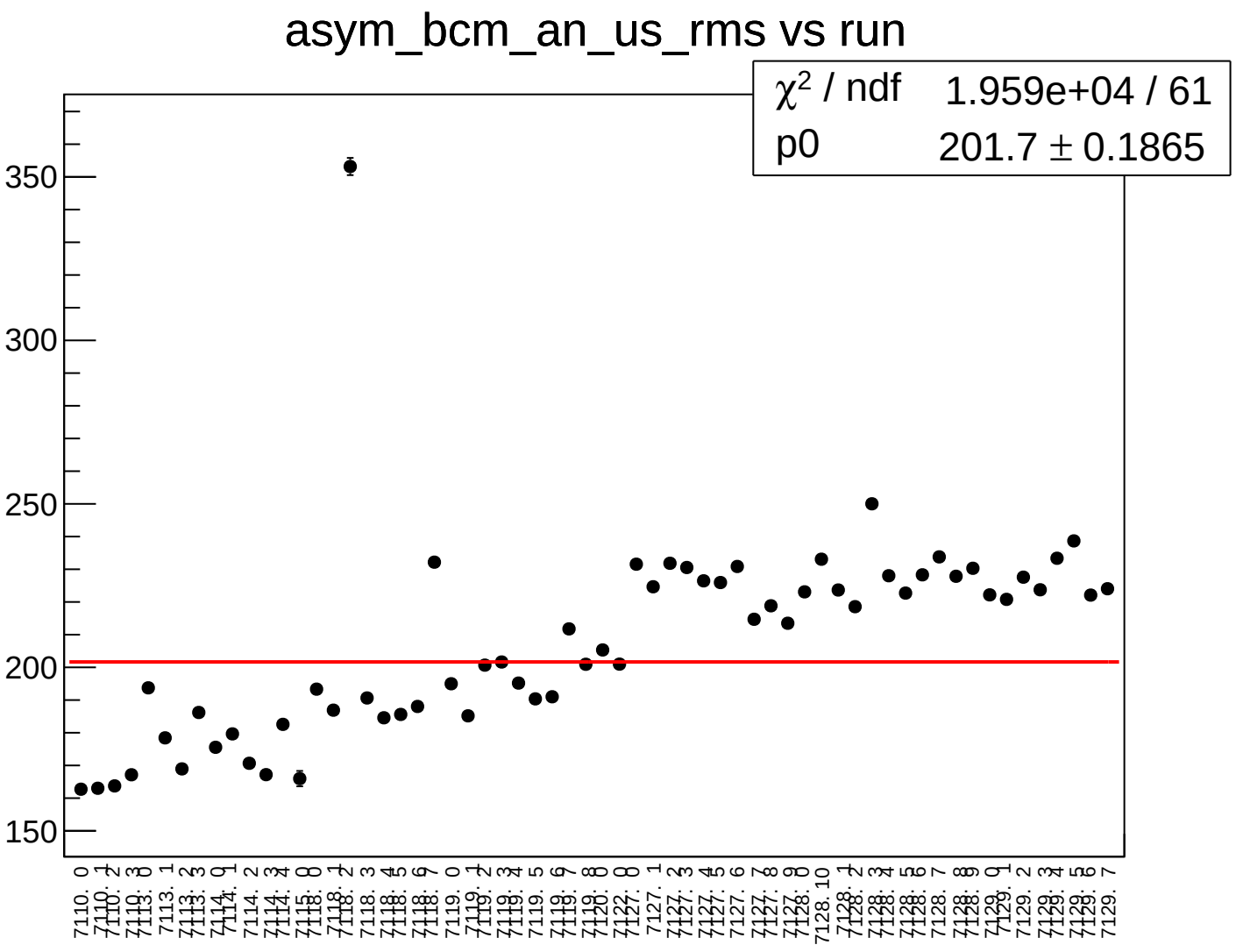

asym_bcm_an_ds3_mean vs run
χ² / ndf 11.45 / 61
p0 −201.1± 264.6
pull
Entries 62
Mean 310.1
Std Dev 284.1

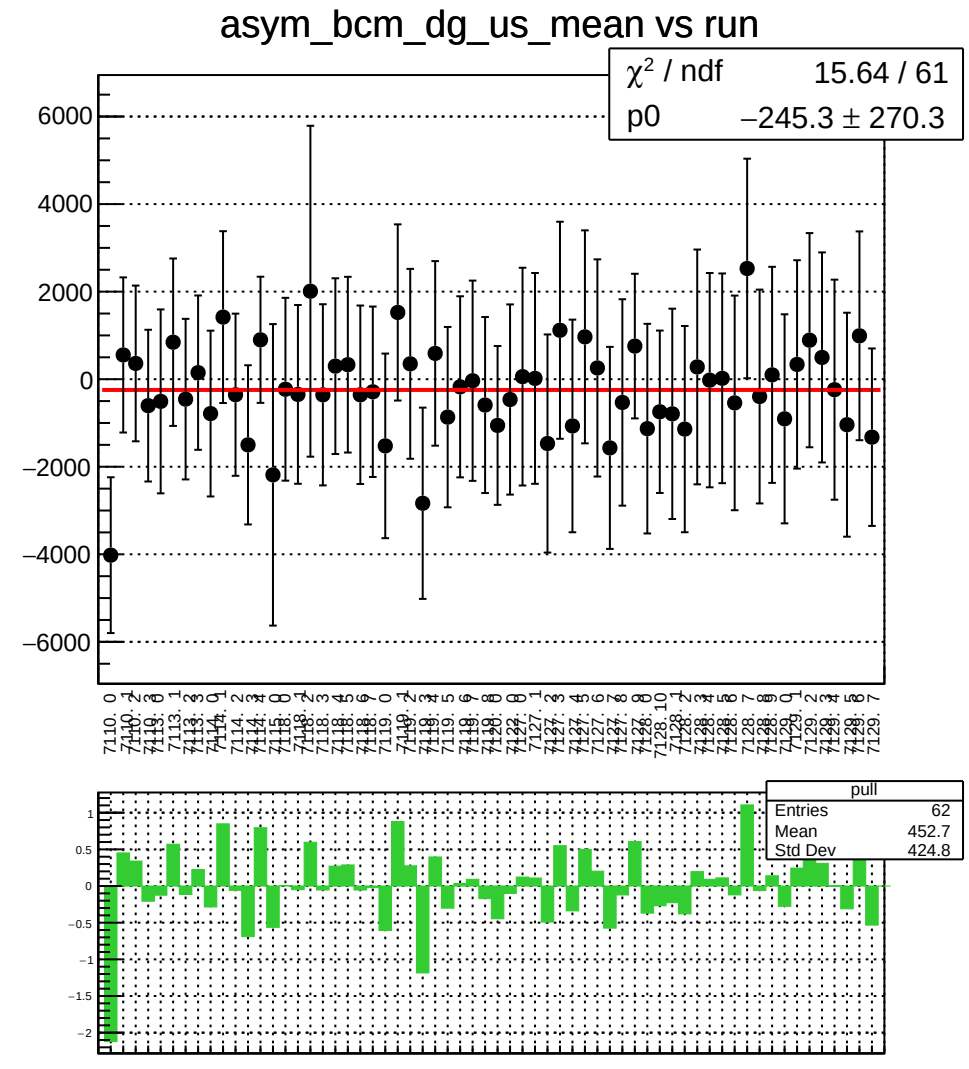

pull1D
Entries 62
Mean 0.003278
Std Dev 0.4297

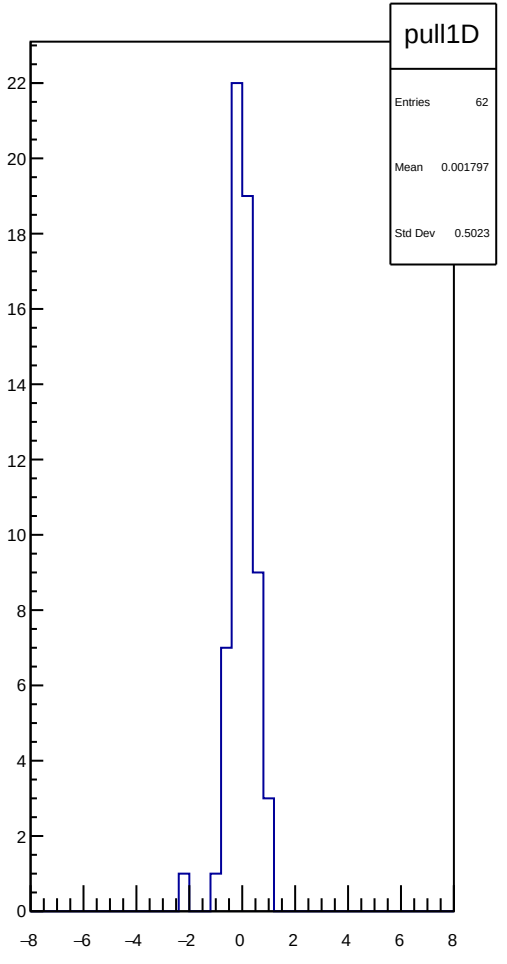

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.941e+04 / 61
p0 202.3 ± 0.1871
350
300
250
200
150
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

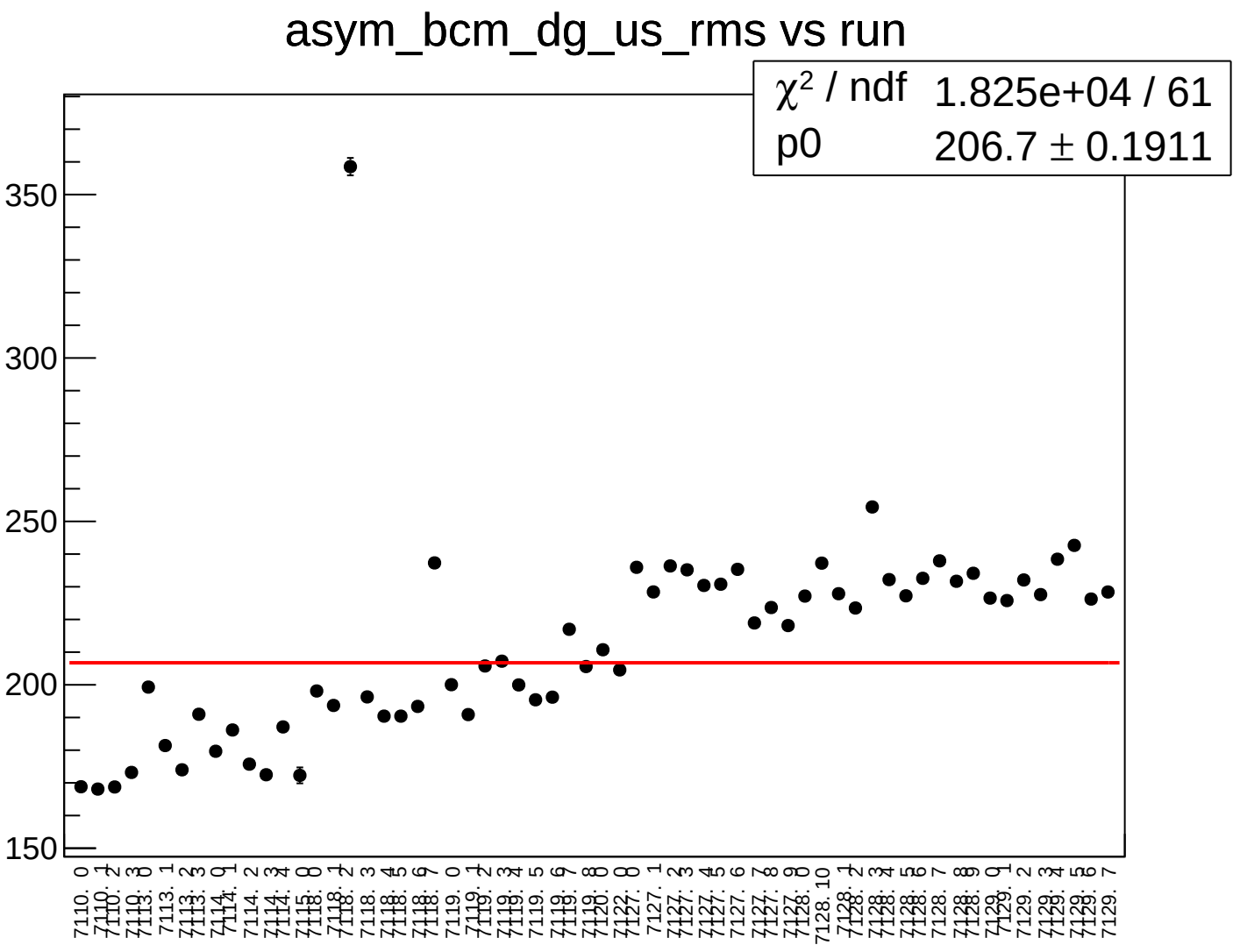

asym_bcm_an_us_mean vs run
χ² / ndf 11.17 / 61
p0 −155.3 ± 263.8
pull
Entries 62
Mean 807.3
Std Dev 781.5

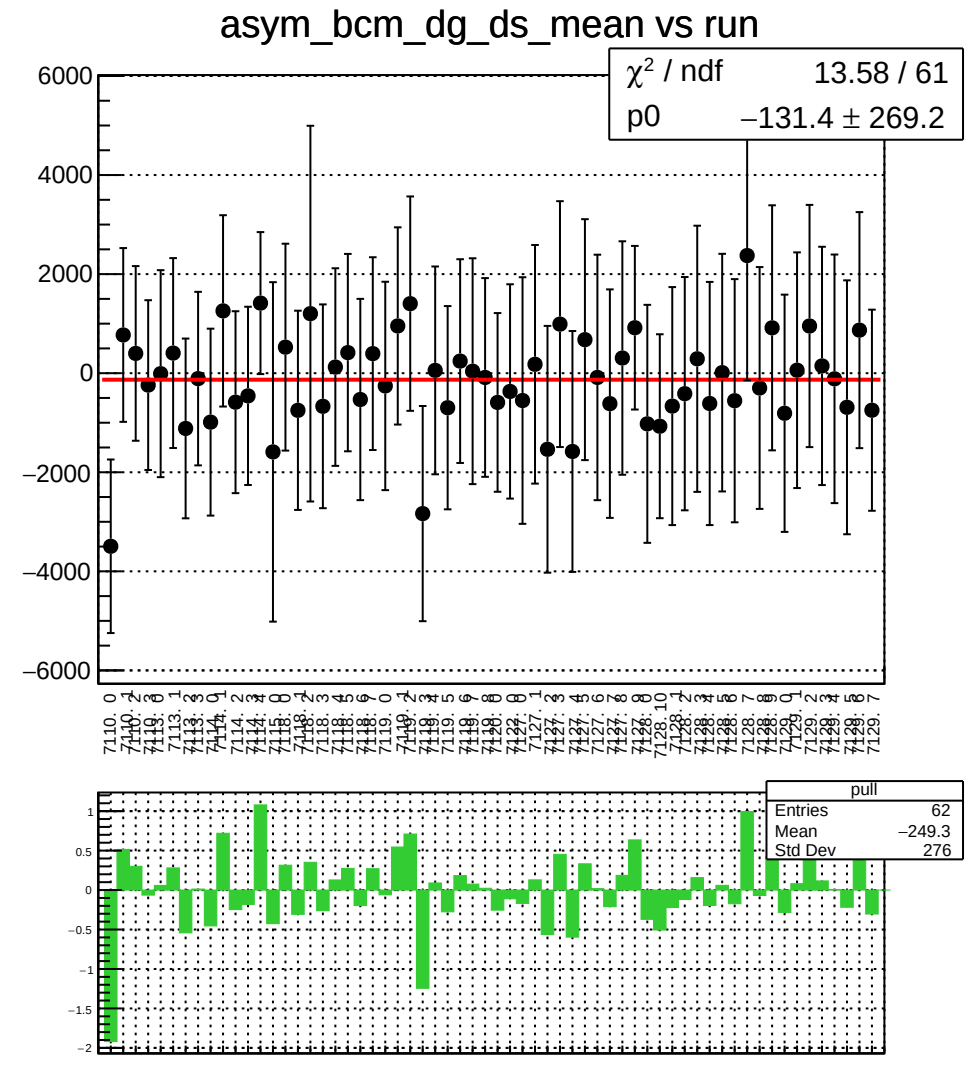

pull1D
Entries 62
Mean 0.001203
Std Dev 0.4244

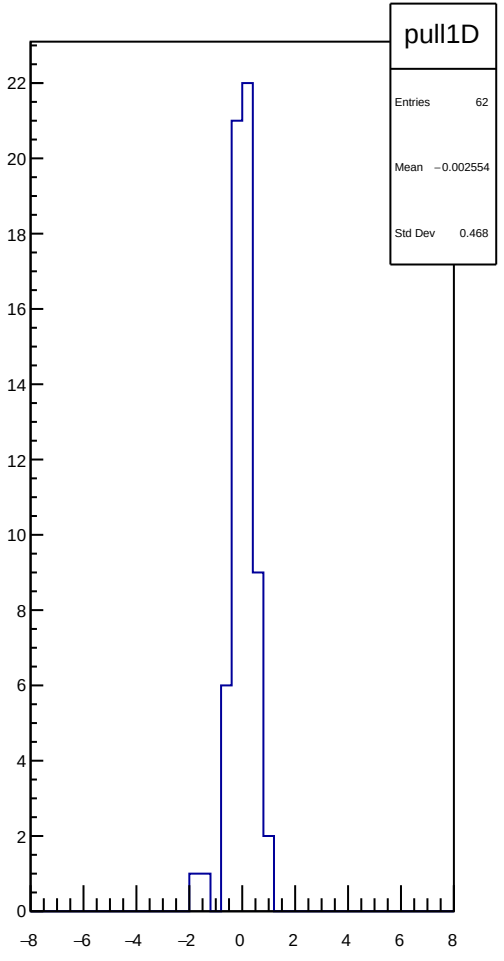

asym_bcm_an_us_rms vs run
χ² / ndf 1.959e+04 / 61
p0 201.7 ± 0.1865
350
300
250
200
150
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 8
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

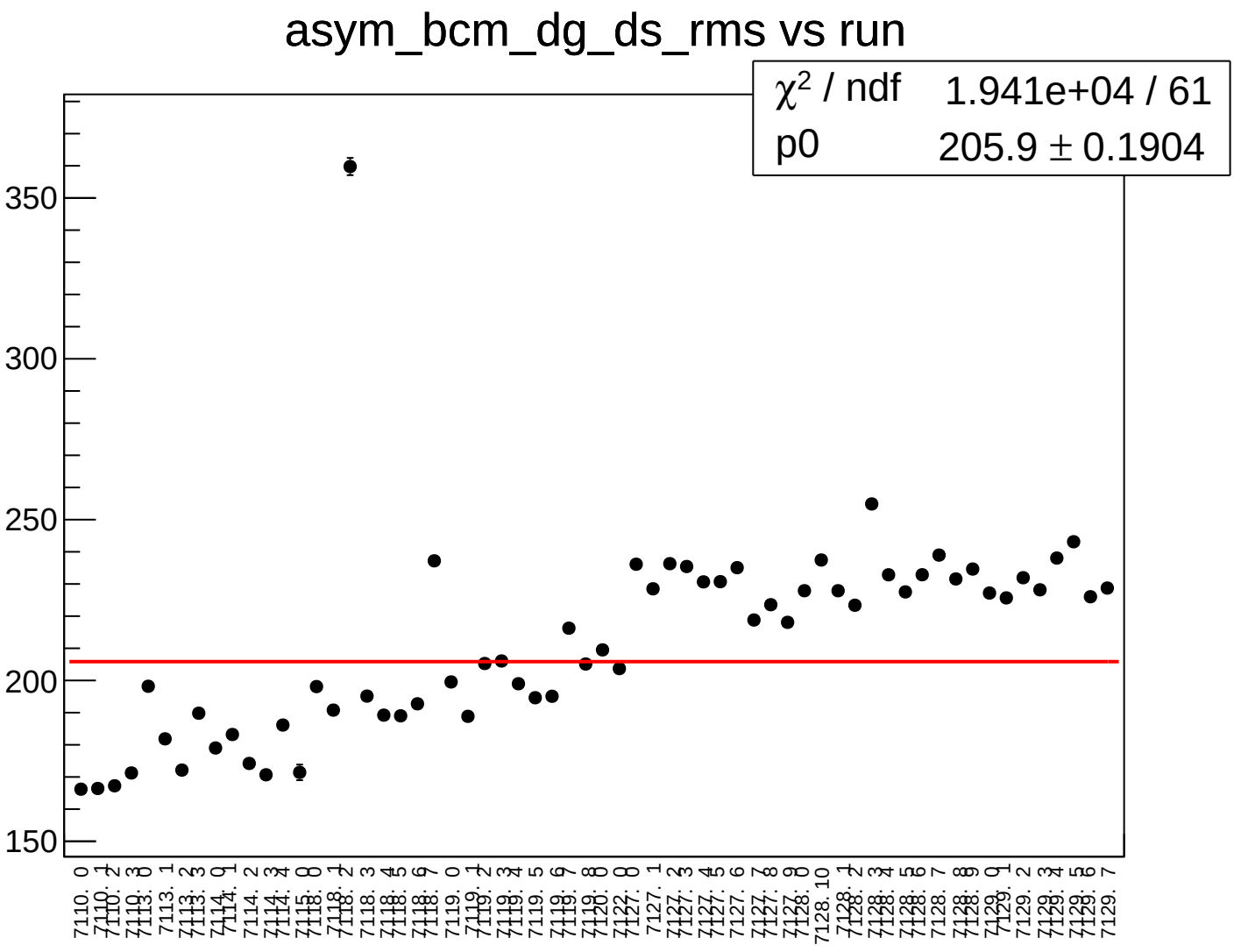

asym_bcm_dg_us_mean vs run
χ² / ndf 15.64 / 61
p0 −245.3 ± 270.3
pull
Entries 62
Mean 452.7
Std Dev 424.8

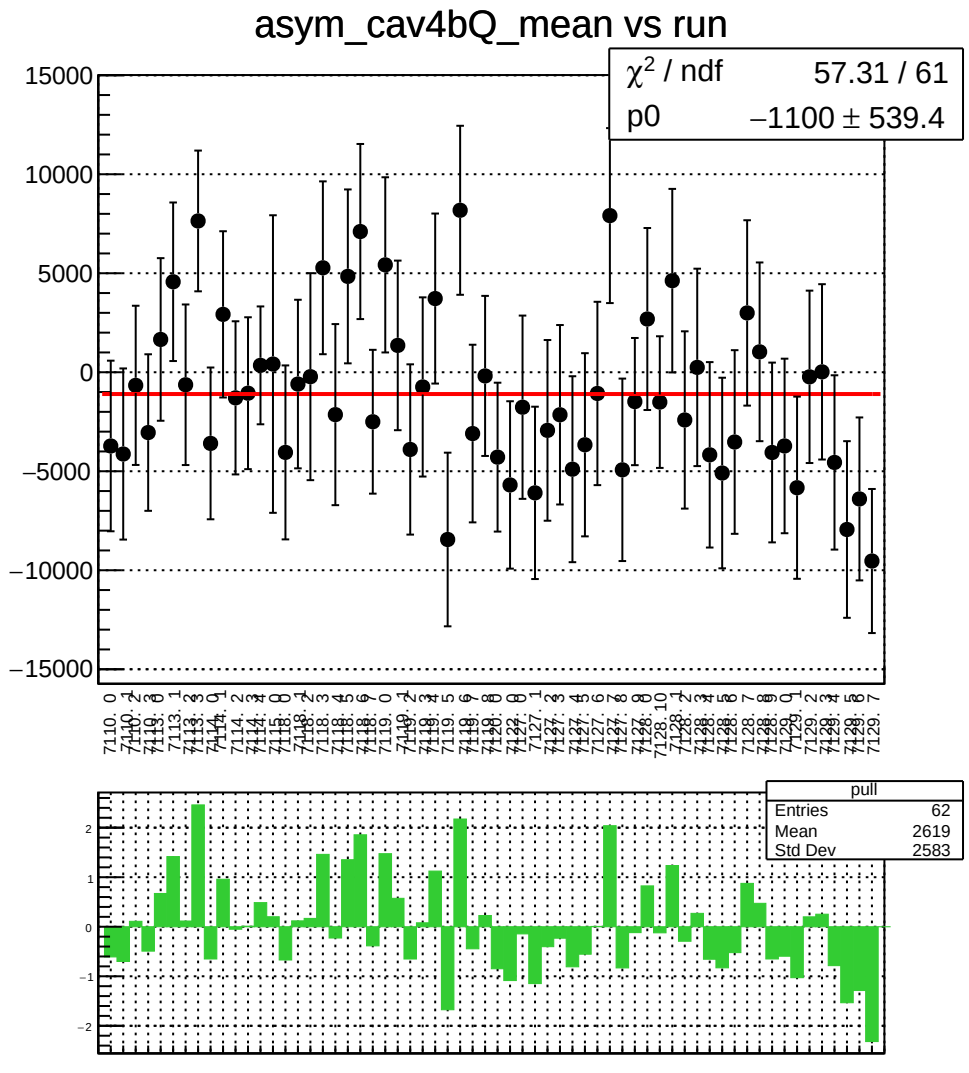

pull1D
Entries 62
Mean 0.001797
Std Dev 0.5023

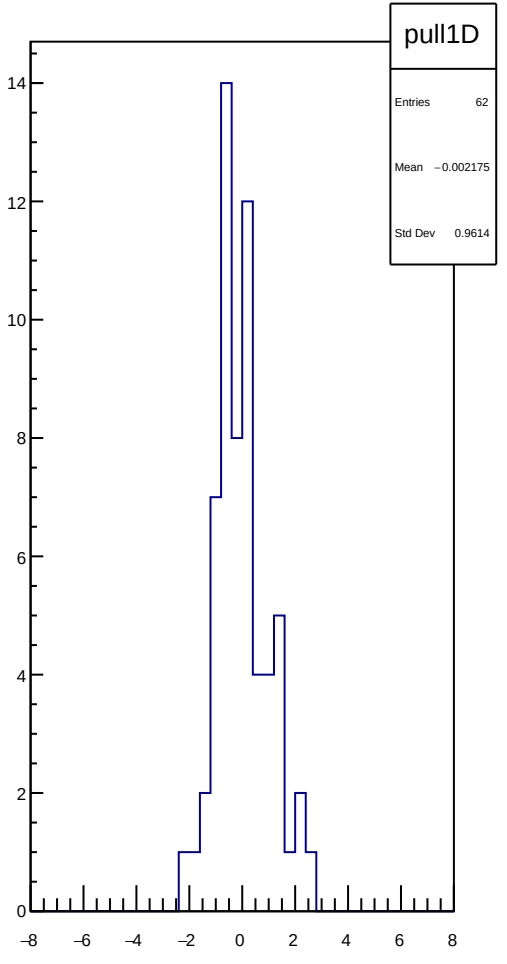

asym_bcm_dg_us_rms vs run
χ² / ndf 1.825e+04 / 61
p0 206.7 ± 0.1911
350
300
250
200
150
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

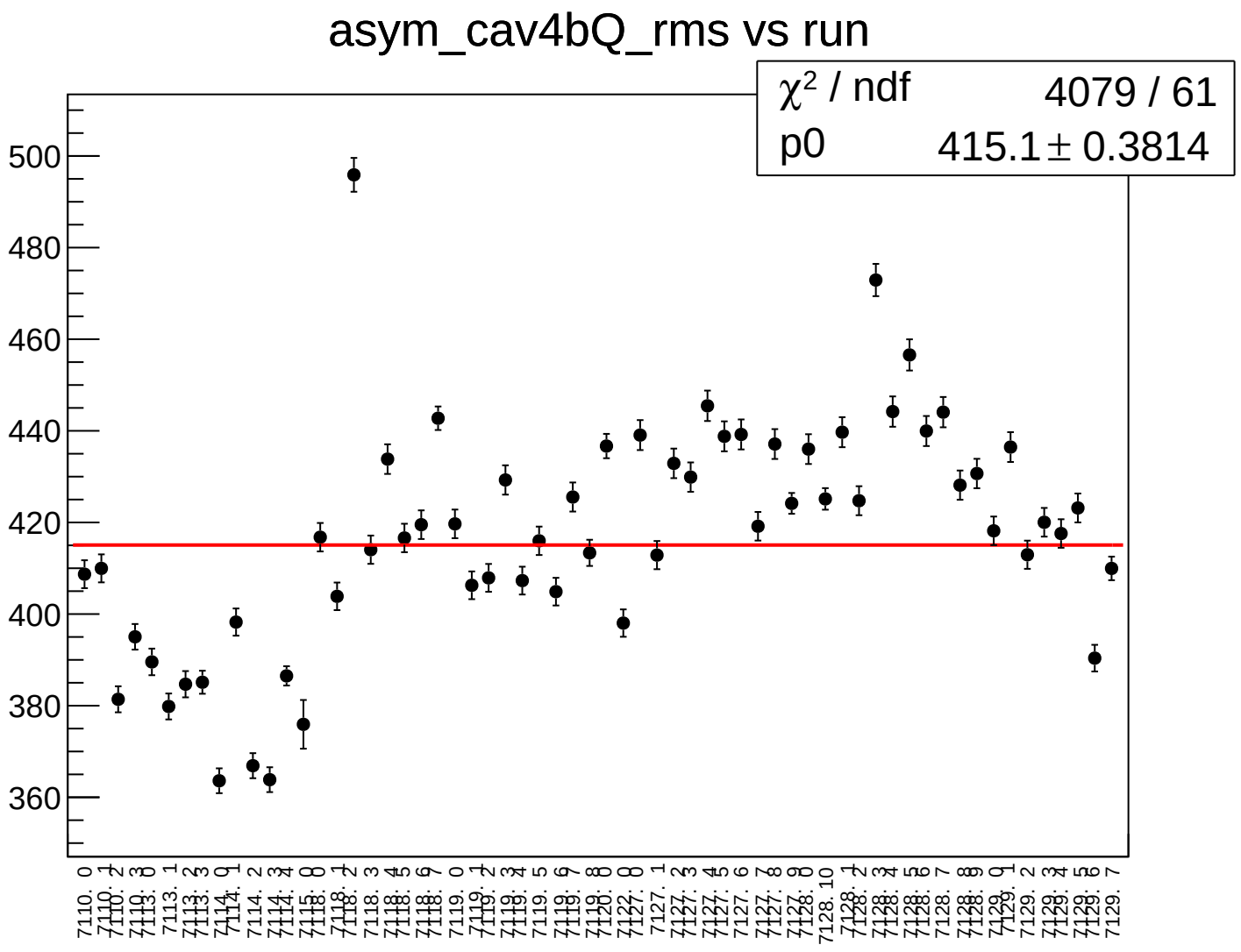

asym_bcm_dg_ds_mean vs run
χ² / ndf 13.58 / 61
p0 −131.4 ± 269.2
pull
Entries 62
Mean −249.3
Std Dev 276

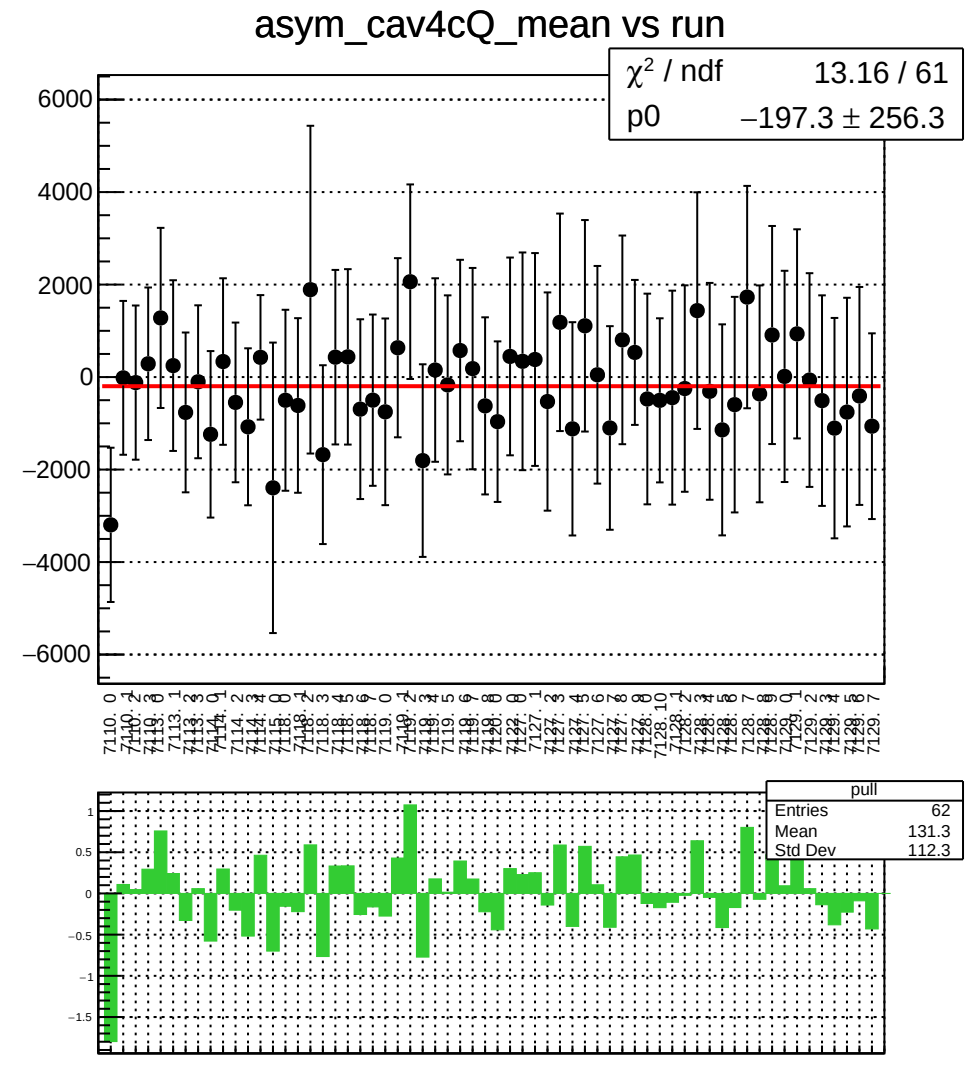

pull1D
Entries 62
Mean −0.002554
Std Dev 0.468

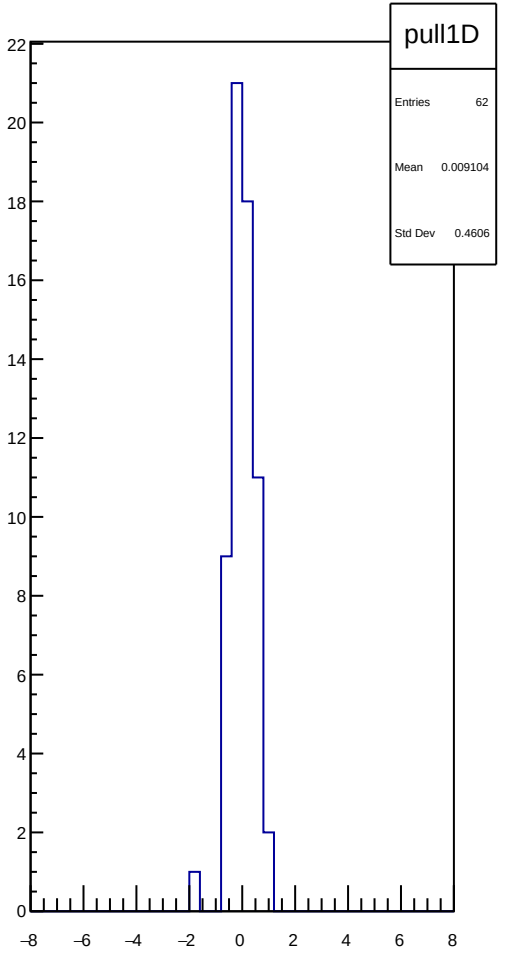

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.941e+04 / 61
p0 205.9 ± 0.1904
350
300
250
200
150
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 8
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

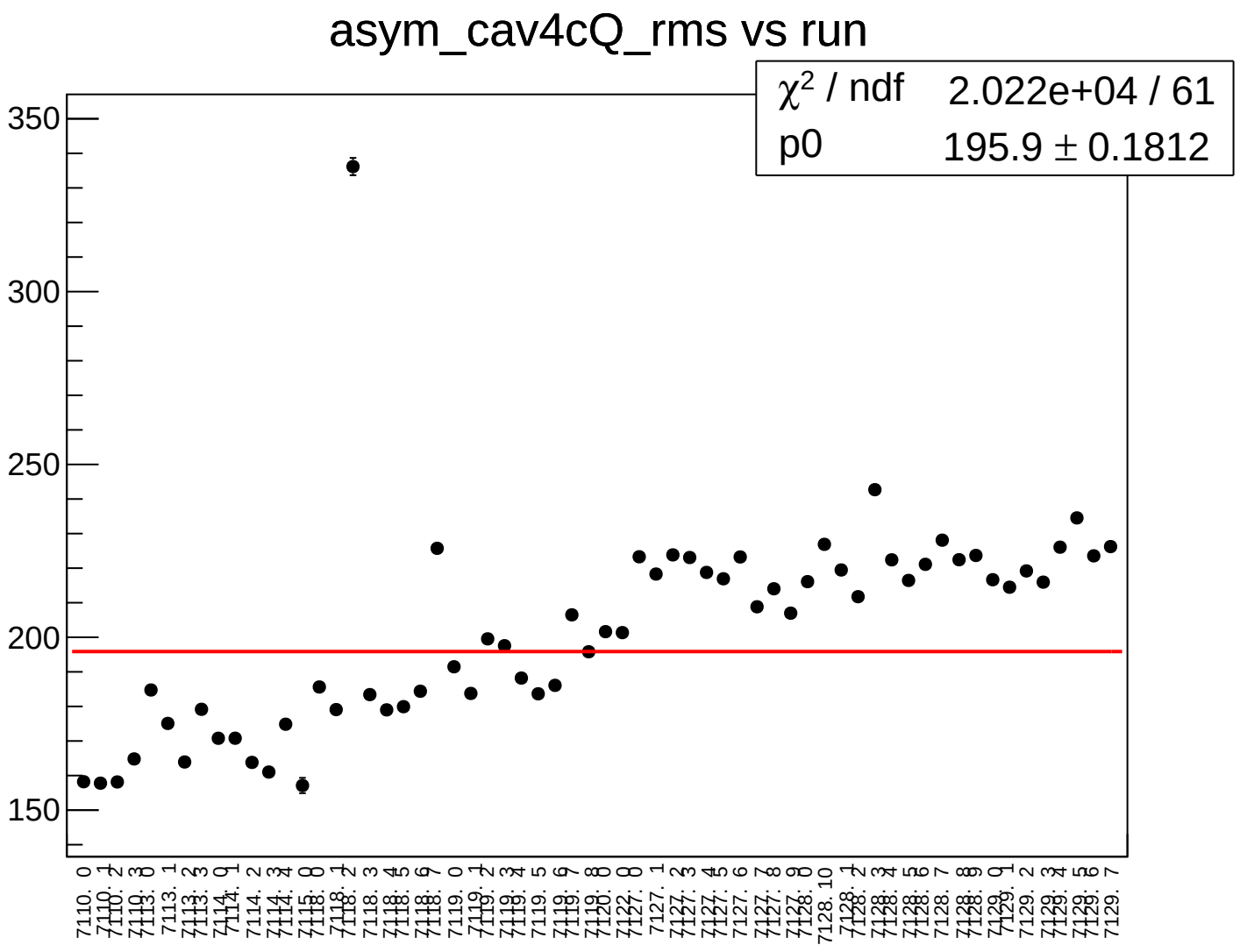

asym_cav4bQ_mean vs run
χ² / ndf 57.31 / 61
p0 −1100 ± 539.4
pull
Entries 62
Mean 2619
Std Dev 2583

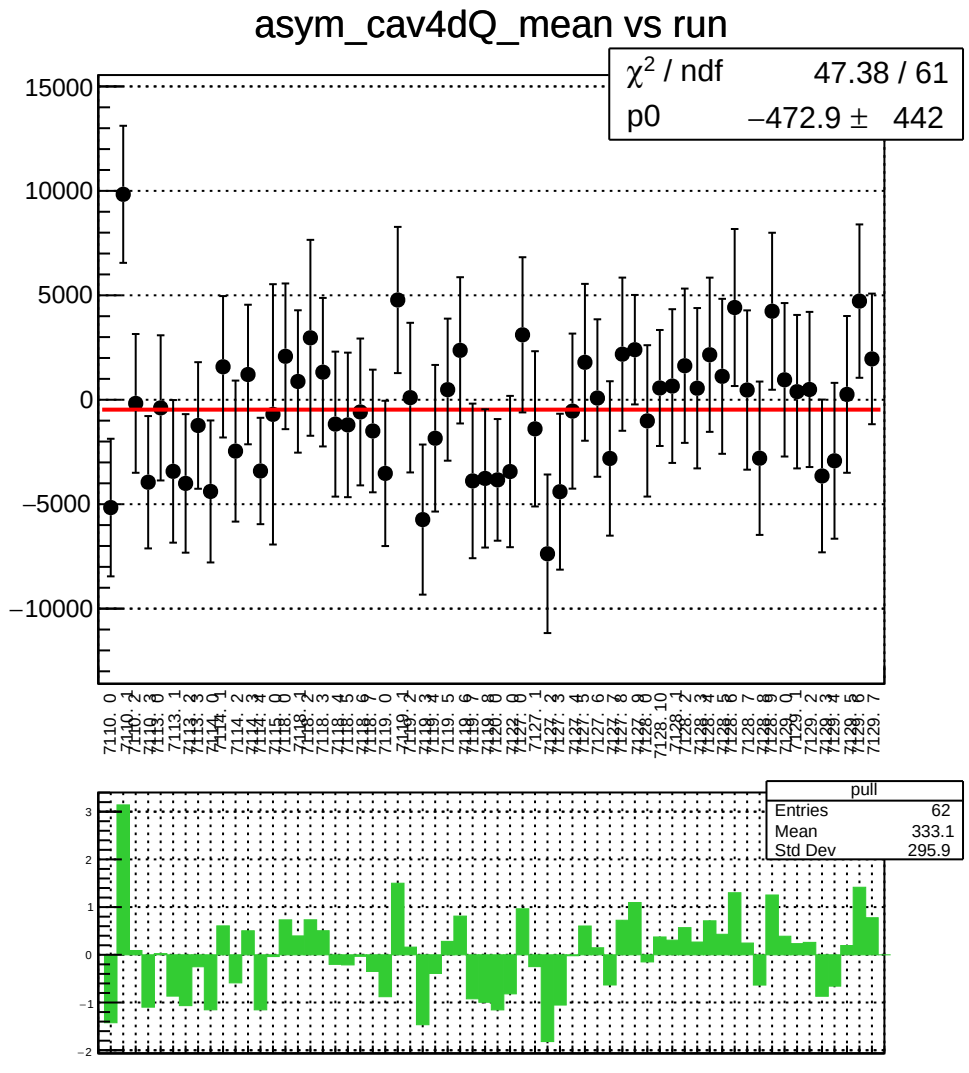

pull1D
Entries 62
Mean −0.002175
Std Dev 0.9614

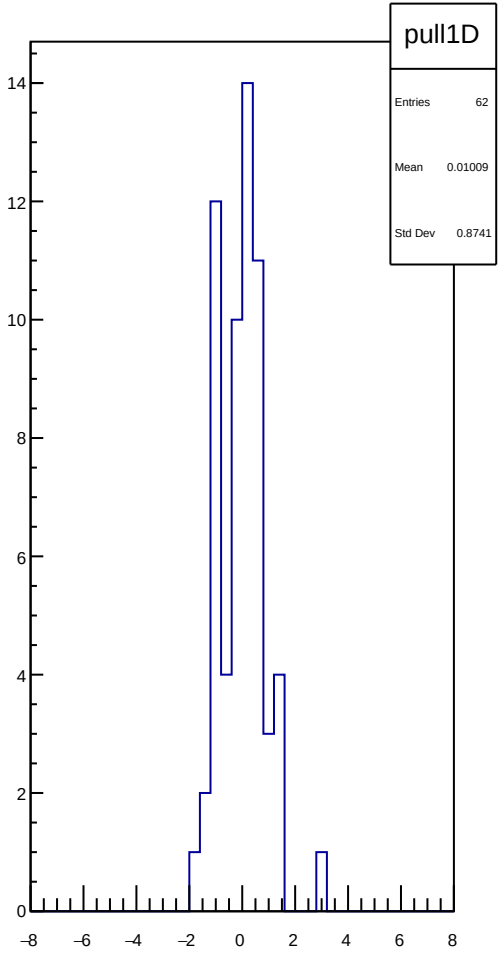

asym_cav4bQ_rms vs run
χ² / ndf 4079 / 61
p0 415.1 ± 0.3814
500
480
460
440
420
400
380
360
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

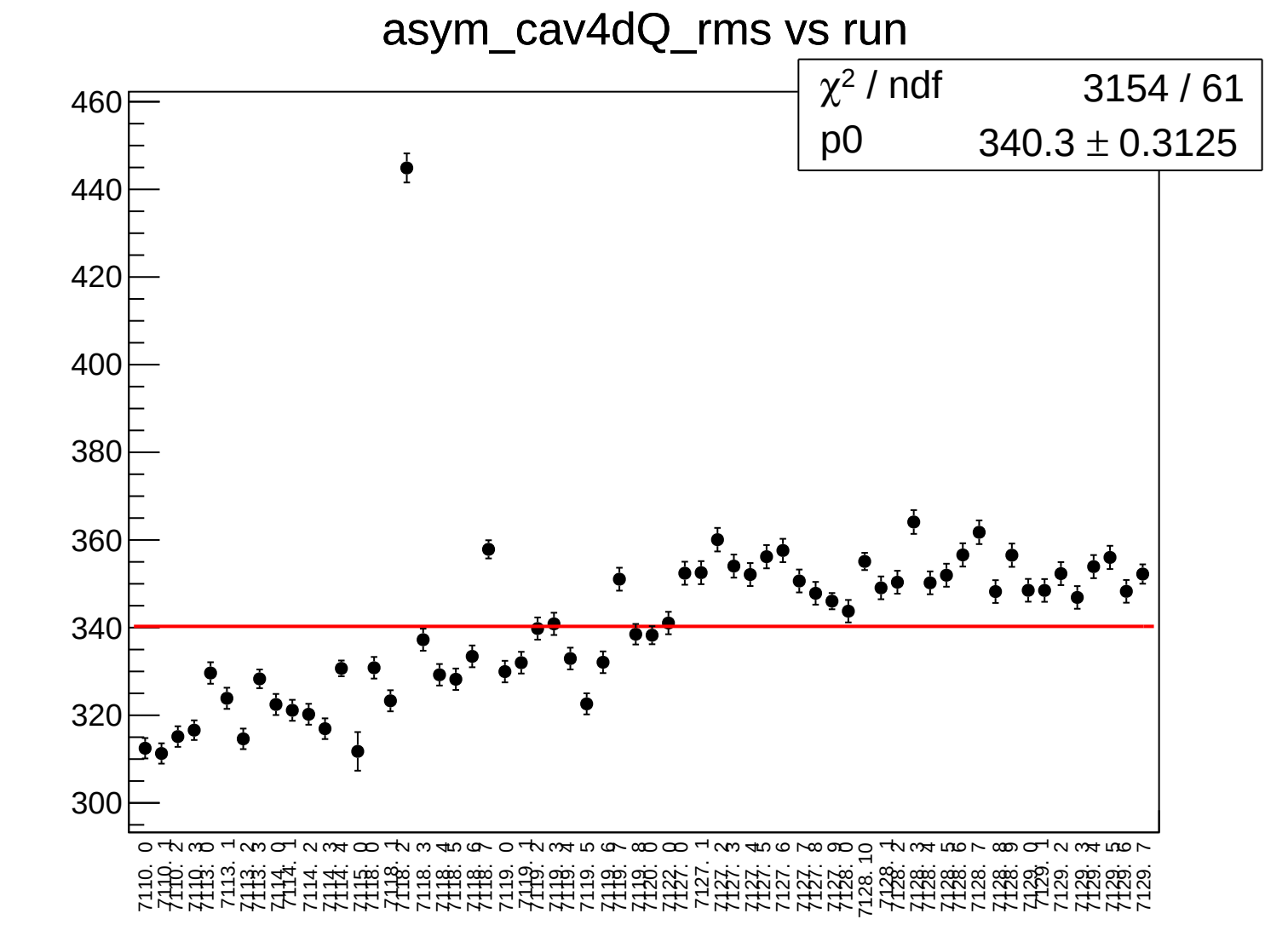

asym_cav4cQ_mean vs run
χ² / ndf 13.16 / 61
p0 −197.3 ± 256.3
pull
Entries 62
Mean 131.3
Std Dev 112.3

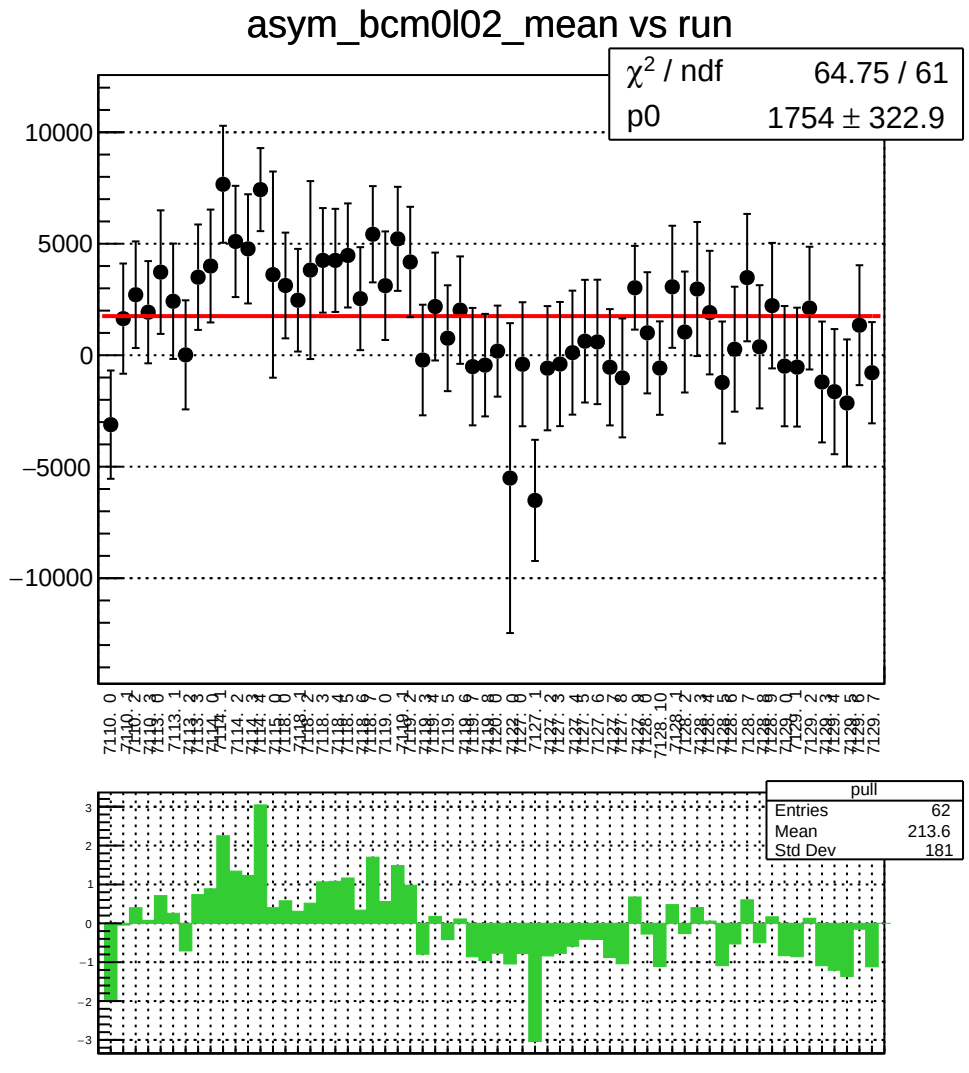

pull1D
Entries 62
Mean 0.009104
Std Dev 0.4606

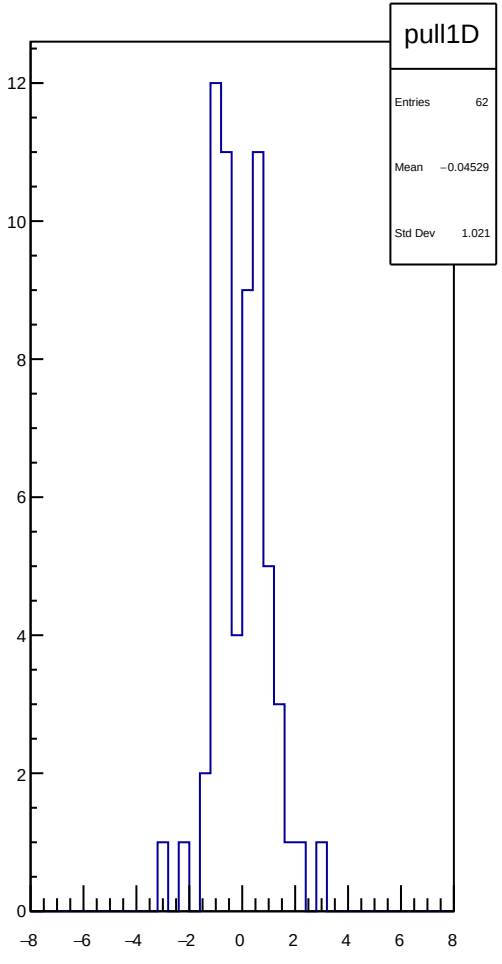

asym_cav4cQ_rms vs run
χ² / ndf 2.022e+04 / 61
p0 195.9 ± 0.1812
350
300
250
200
150

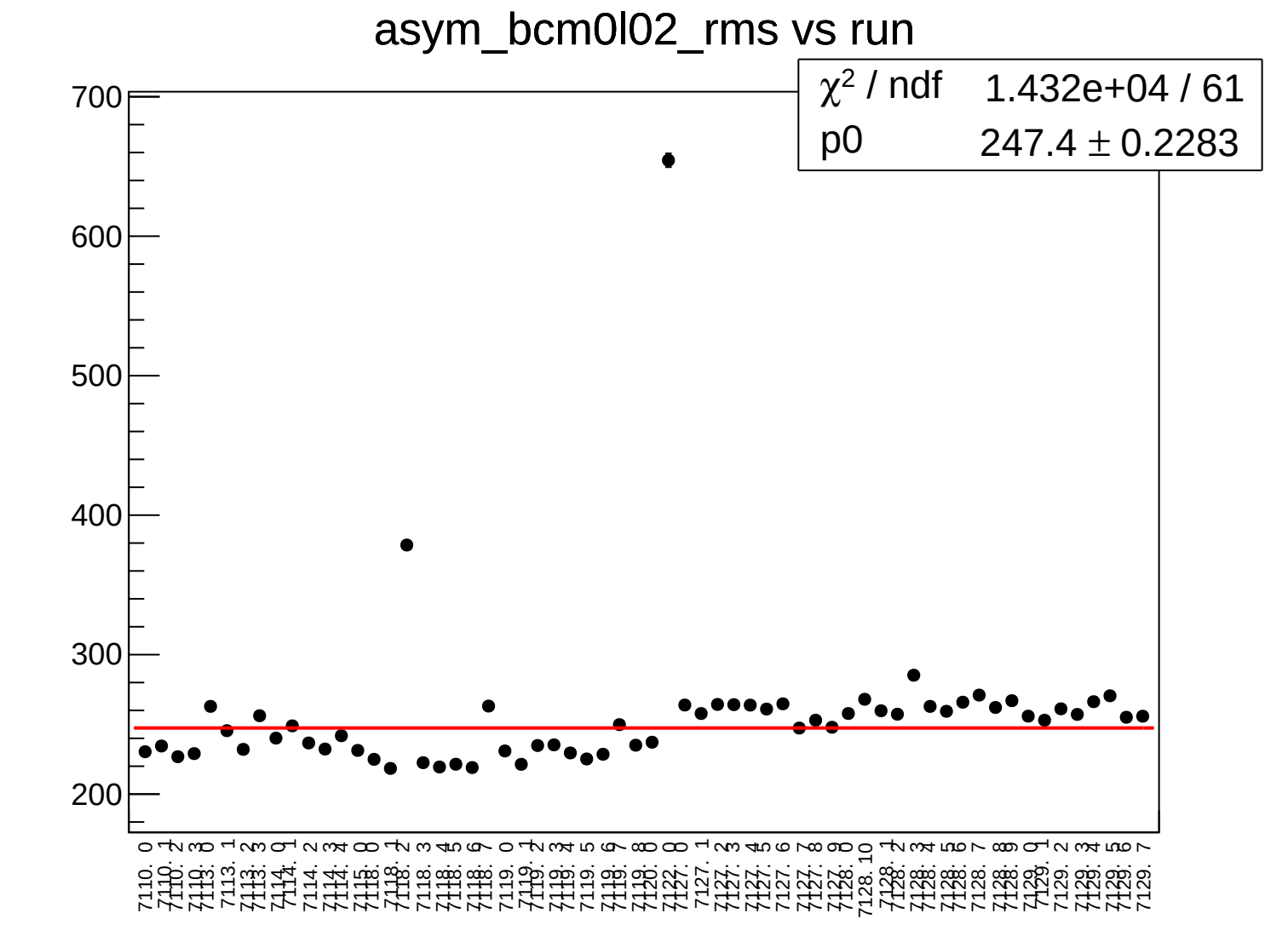

asym_cav4dQ_mean vs run
χ² / ndf 47.38 / 61
p0 −472.9 ± 442
15000
10000
5000
0
−5000
−10000
pull
Entries 62
Mean 333.1
Std Dev 295.9
3
2
1
0
−1
−2

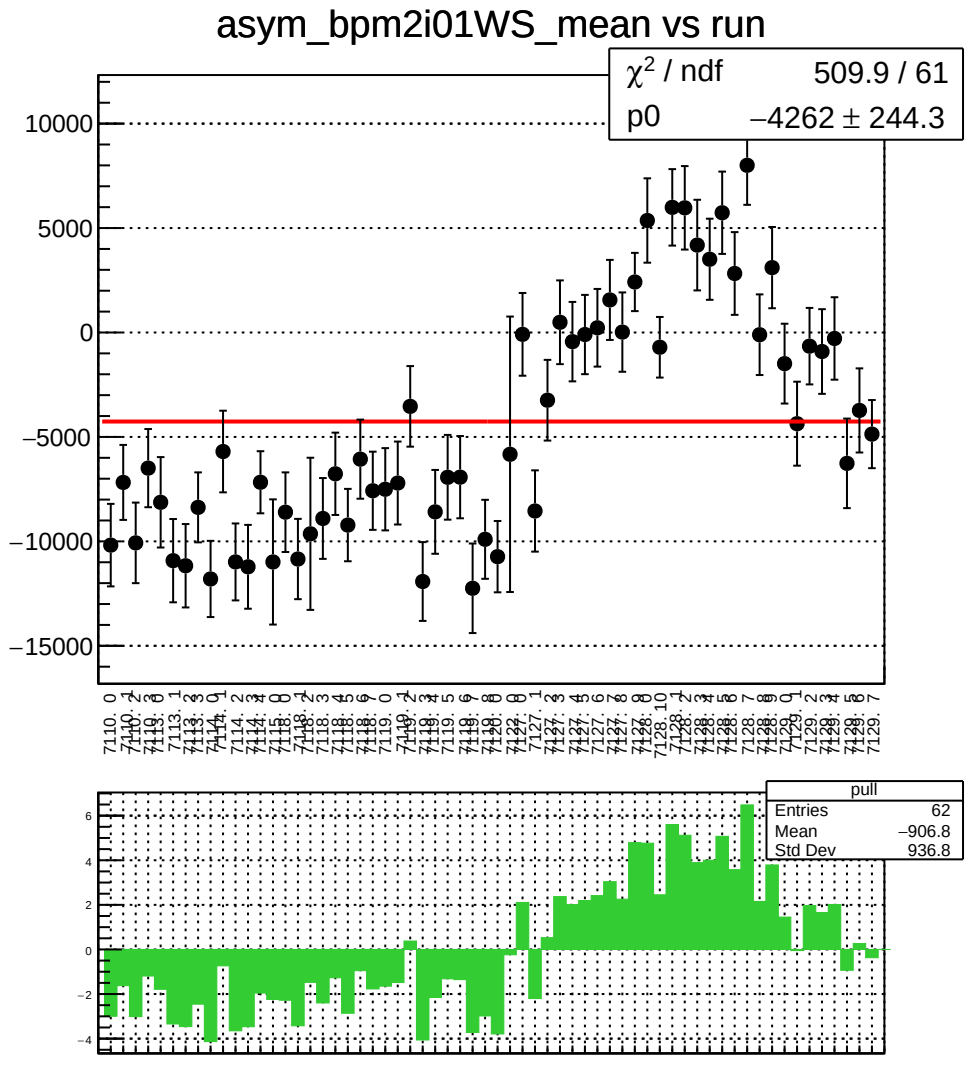

pull1D
Entries 62
Mean 0.01009
Std Dev 0.8741
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

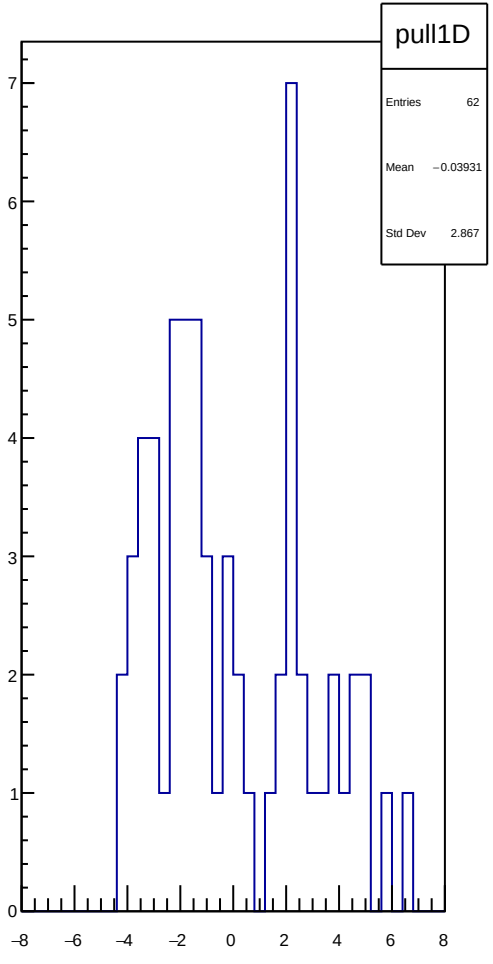

asym_cav4dQ_rms vs run
χ^2 / ndf 3154 / 61
p0 340.3 ± 0.3125
460
440
420
400
380
360
340
320
300
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

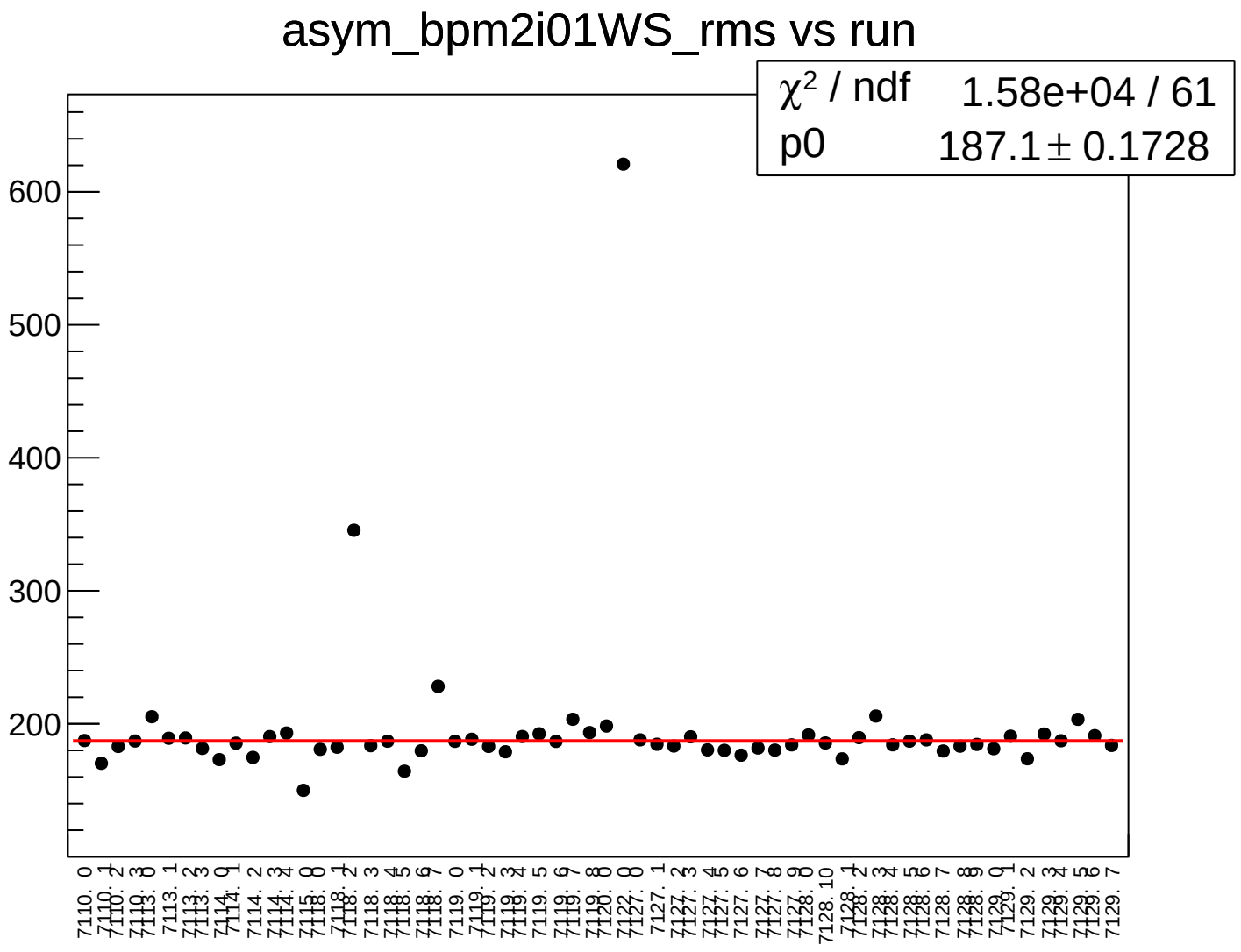

asym_bcm0l02_mean vs run
χ² / ndf 64.75 / 61
p0 1754 ± 322.9
10000
5000
0
−5000
−10000
pull
Entries 62
Mean 213.6
Std Dev 181
3
2
1
0
−1
−2
−3

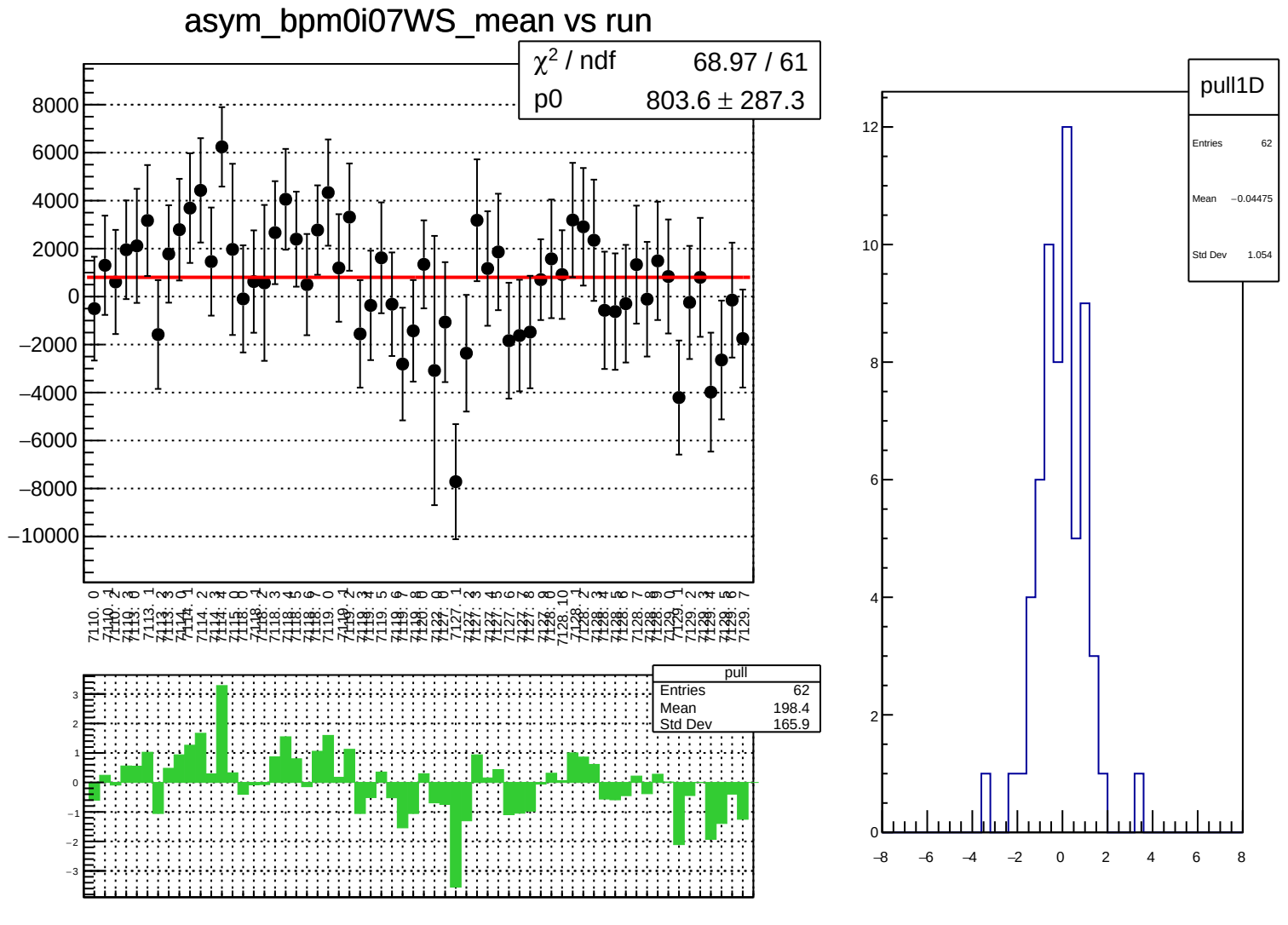

pull1D
Entries 62
Mean −0.04529
Std Dev 1.021
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

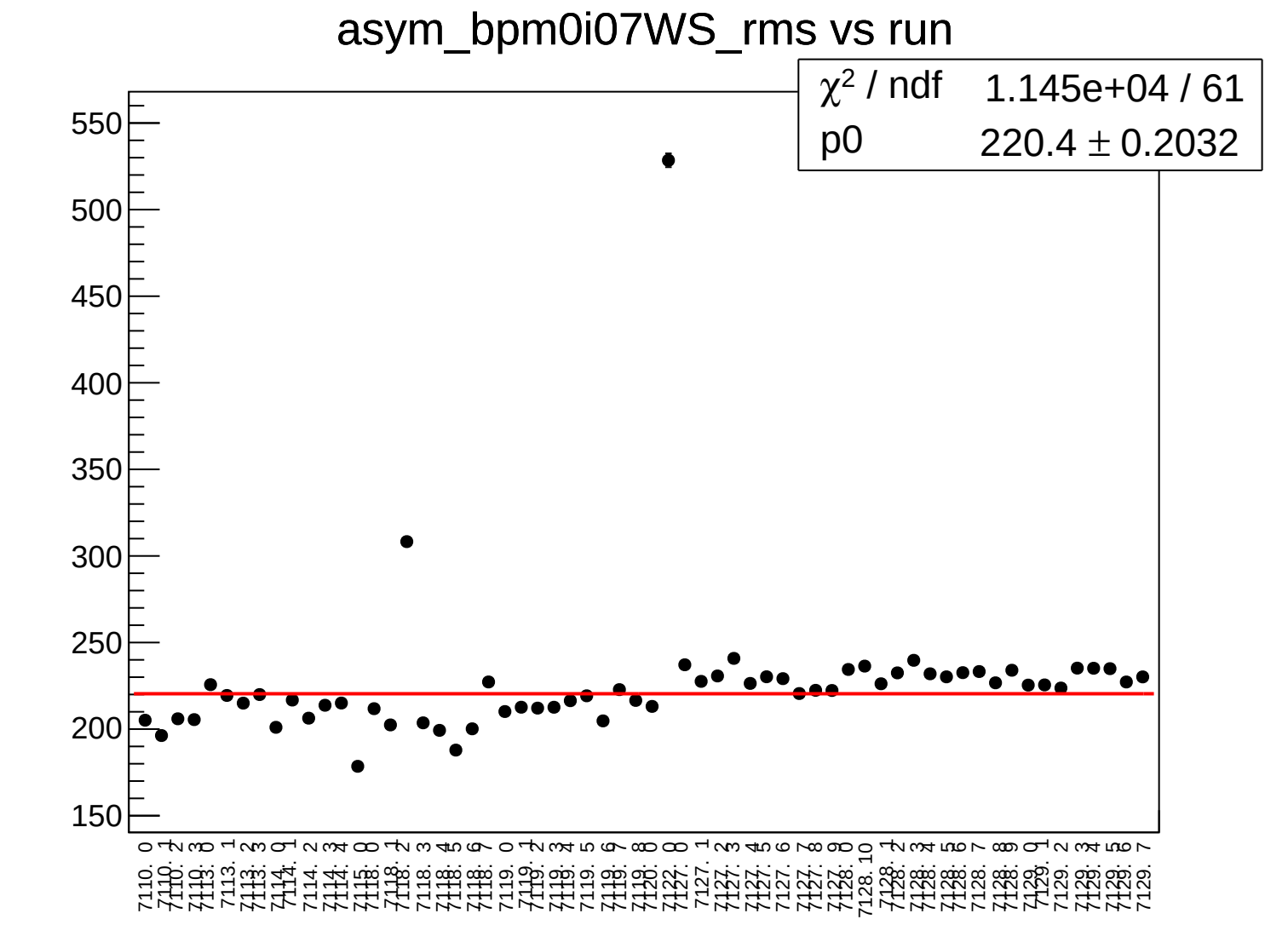

asym_bcm0l02_rms vs run
χ^2 / ndf 1.432e+04 / 61
p0 247.4 ± 0.2283
700
600
500
400
300
200

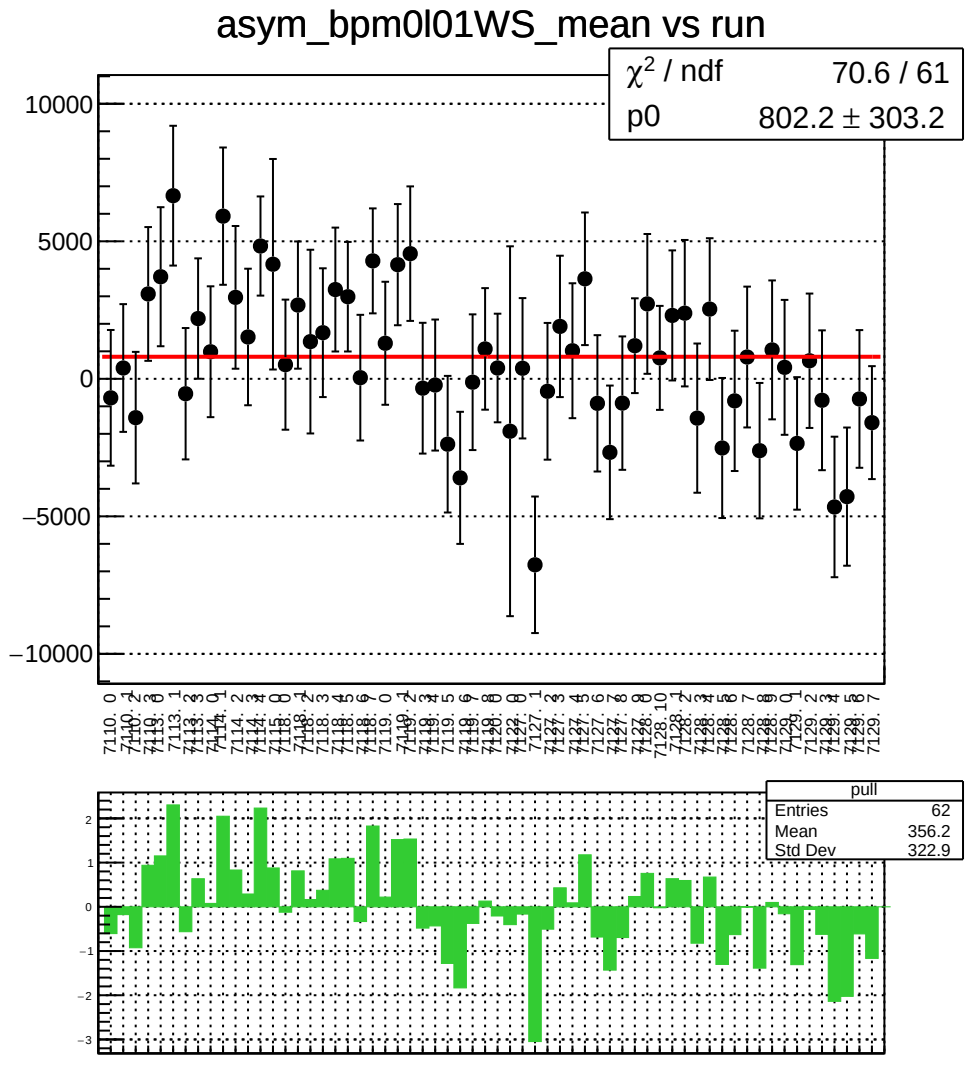

asym_bpm2i01WS_mean vs run
χ² / ndf 509.9 / 61
p0 −4262 ± 244.3
pull
Entries 62
Mean −906.8
Std Dev 936.8

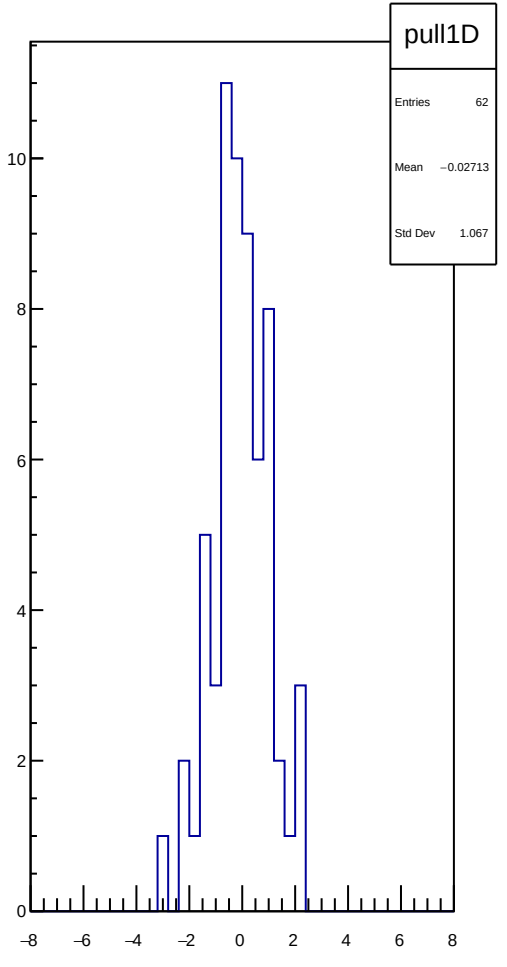

pull1D
Entries 62
Mean −0.03931
Std Dev 2.867

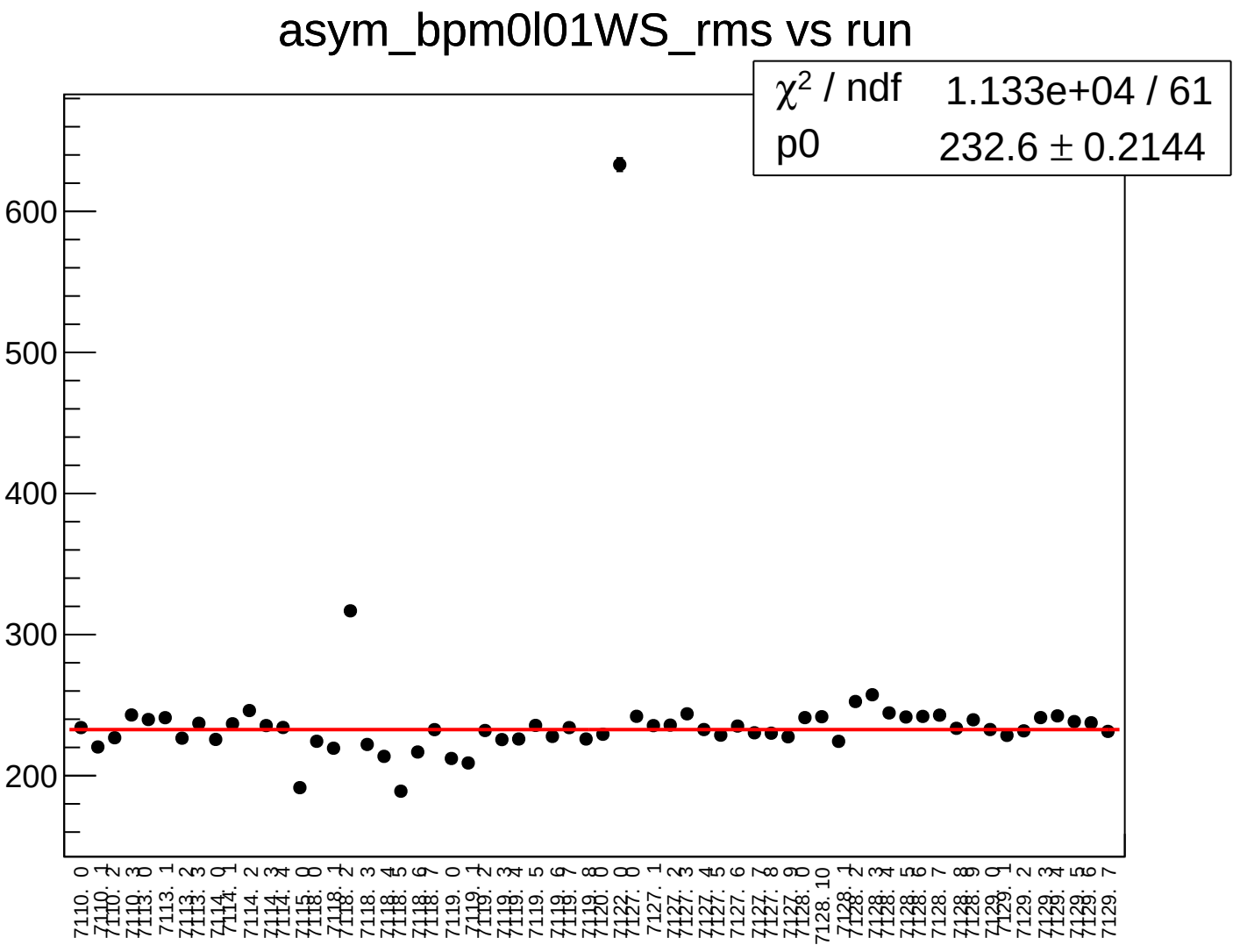

asym_bpm2i01WS_rms vs run
χ² / ndf 1.58e+04 / 61
p0 187.1 ± 0.1728
600
500
400
300
200

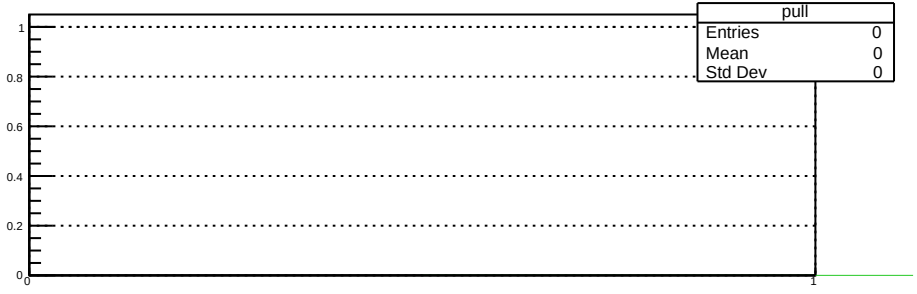

asym_bpm0i07WS_mean vs run
χ^2 / ndf 68.97 / 61
p0 803.6 ± 287.3
pull
Entries 62
Mean 198.4
Std Dev 165.9
pull1D
Entries 62
Mean −0.04475
Std Dev 1.054

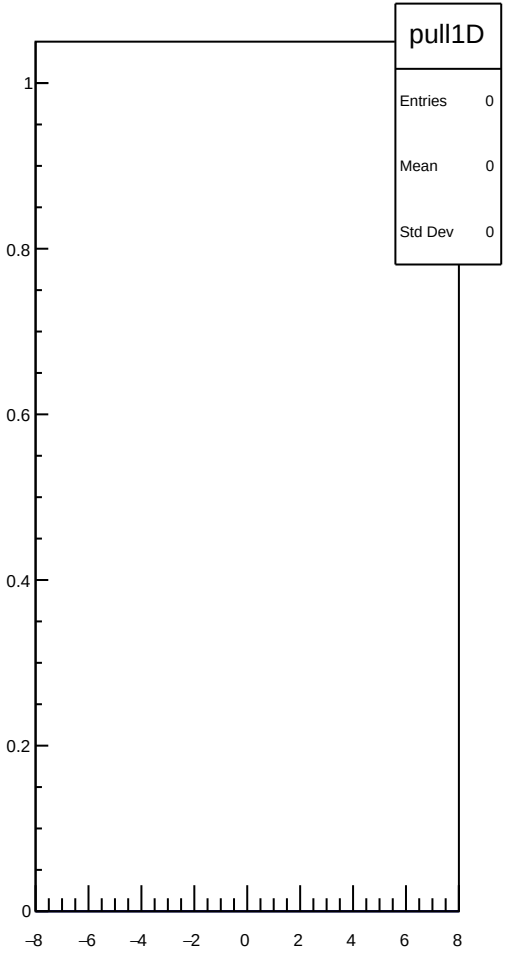

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.145e+04 / 61
p0 220.4 ± 0.2032
550
500
450
400
350
300
250
200
150
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

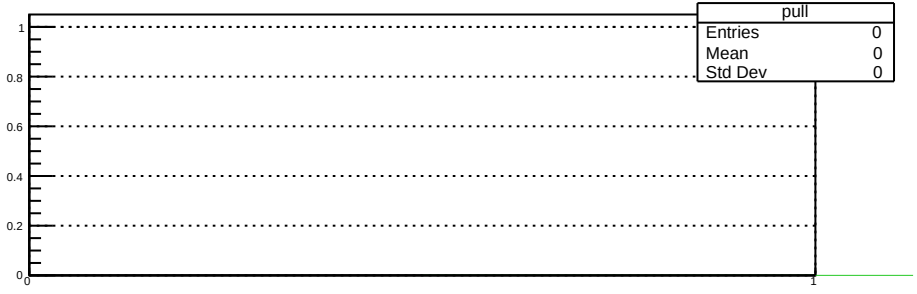

asym_bpm0l01WS_mean vs run
χ² / ndf 70.6 / 61
p0 802.2 ± 303.2
10000
5000
0
−5000
−10000
pull
Entries 62
Mean 356.2
Std Dev 322.9
2
1
0
−1
−2
−3

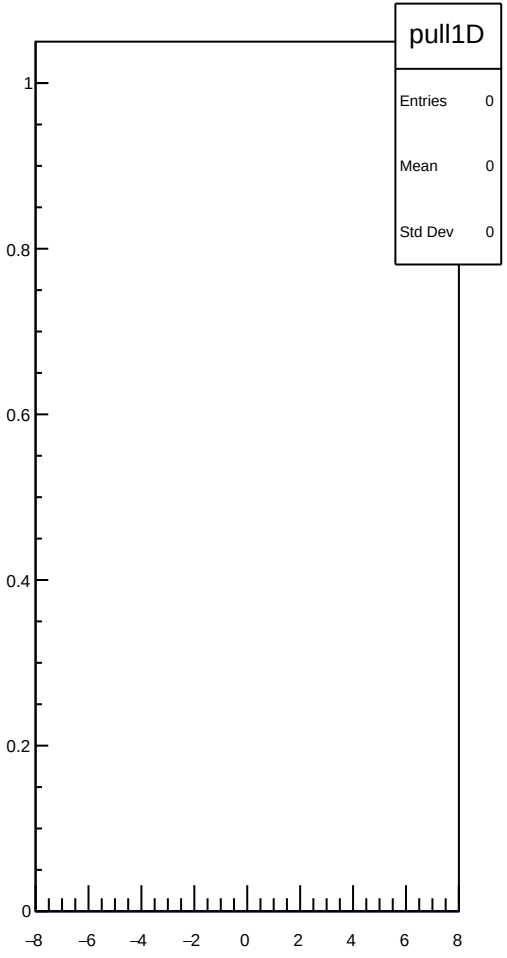

pull1D
Entries 62
Mean −0.02713
Std Dev 1.067
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

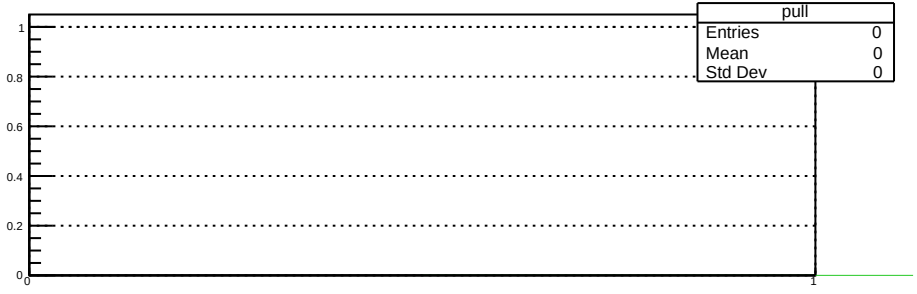

asym_bpm0l01WS_rms vs run
χ^2 / ndf 1.133e+04 / 61
p0 232.6 ± 0.2144
600
500
400
300
200
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

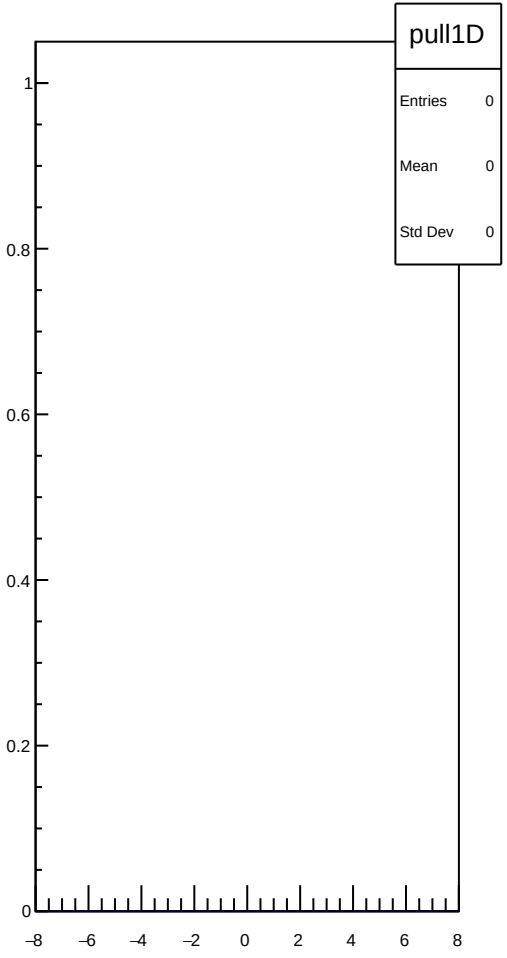

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

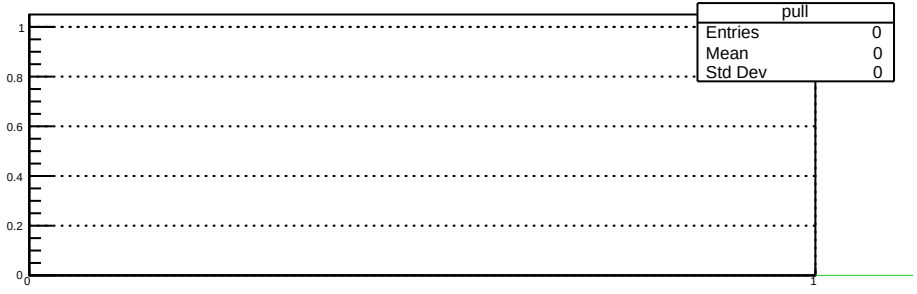

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

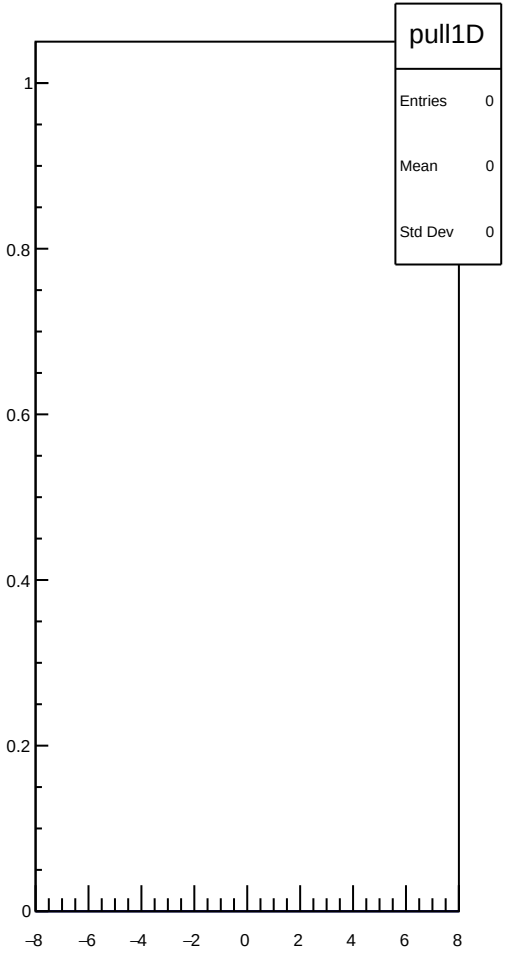

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

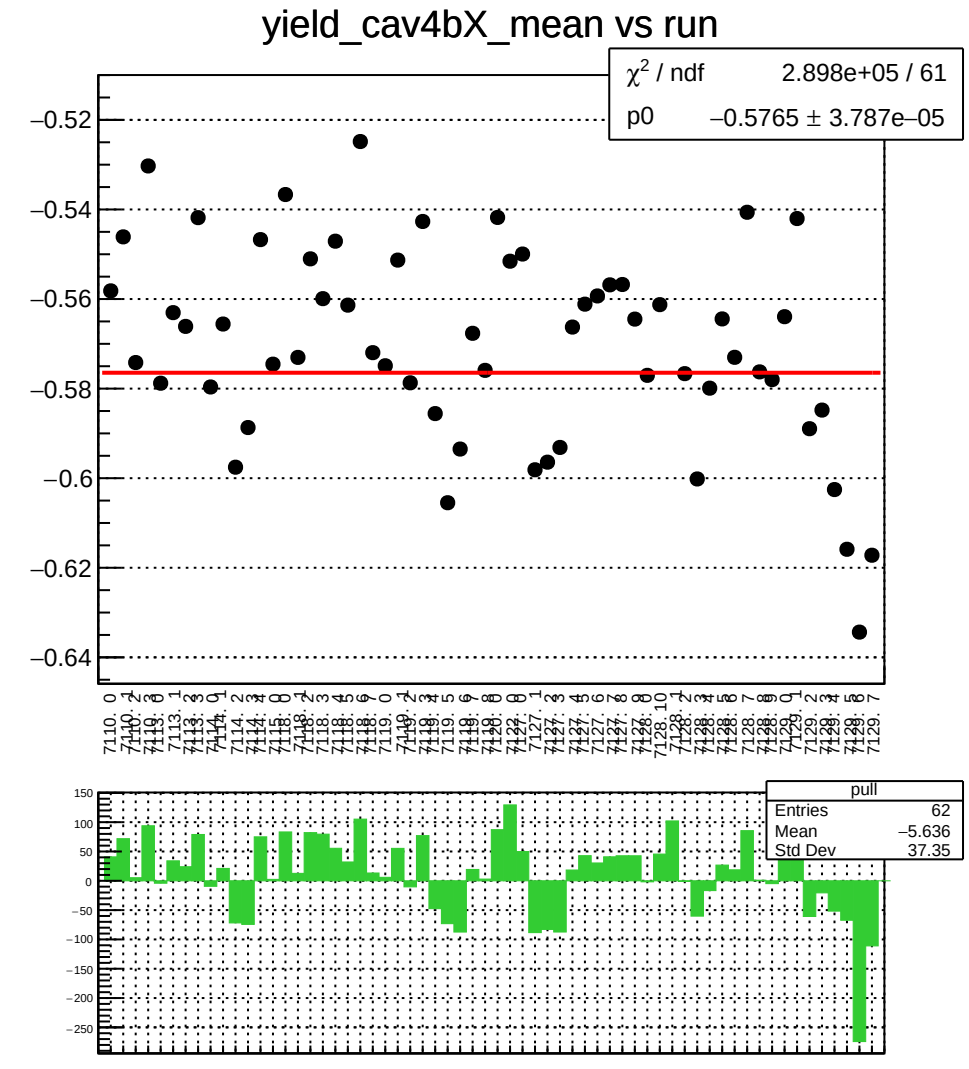

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

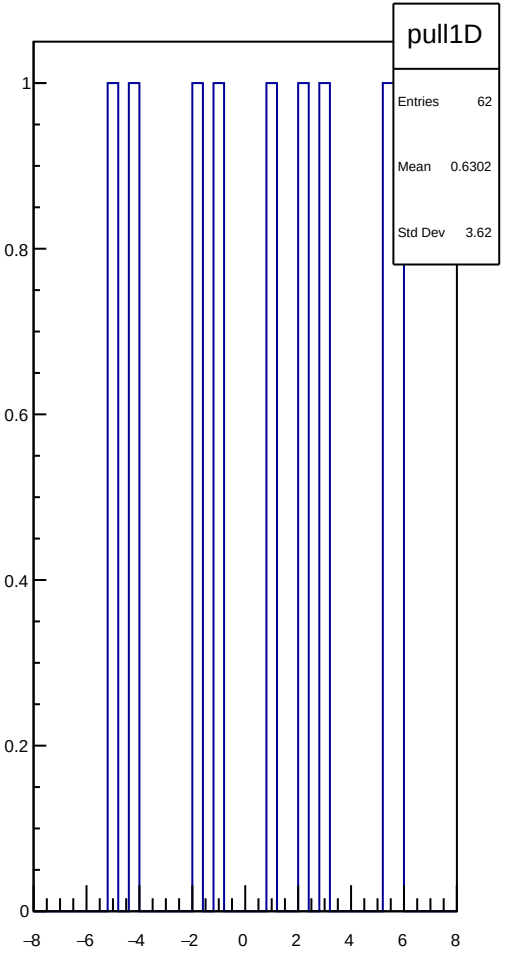

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

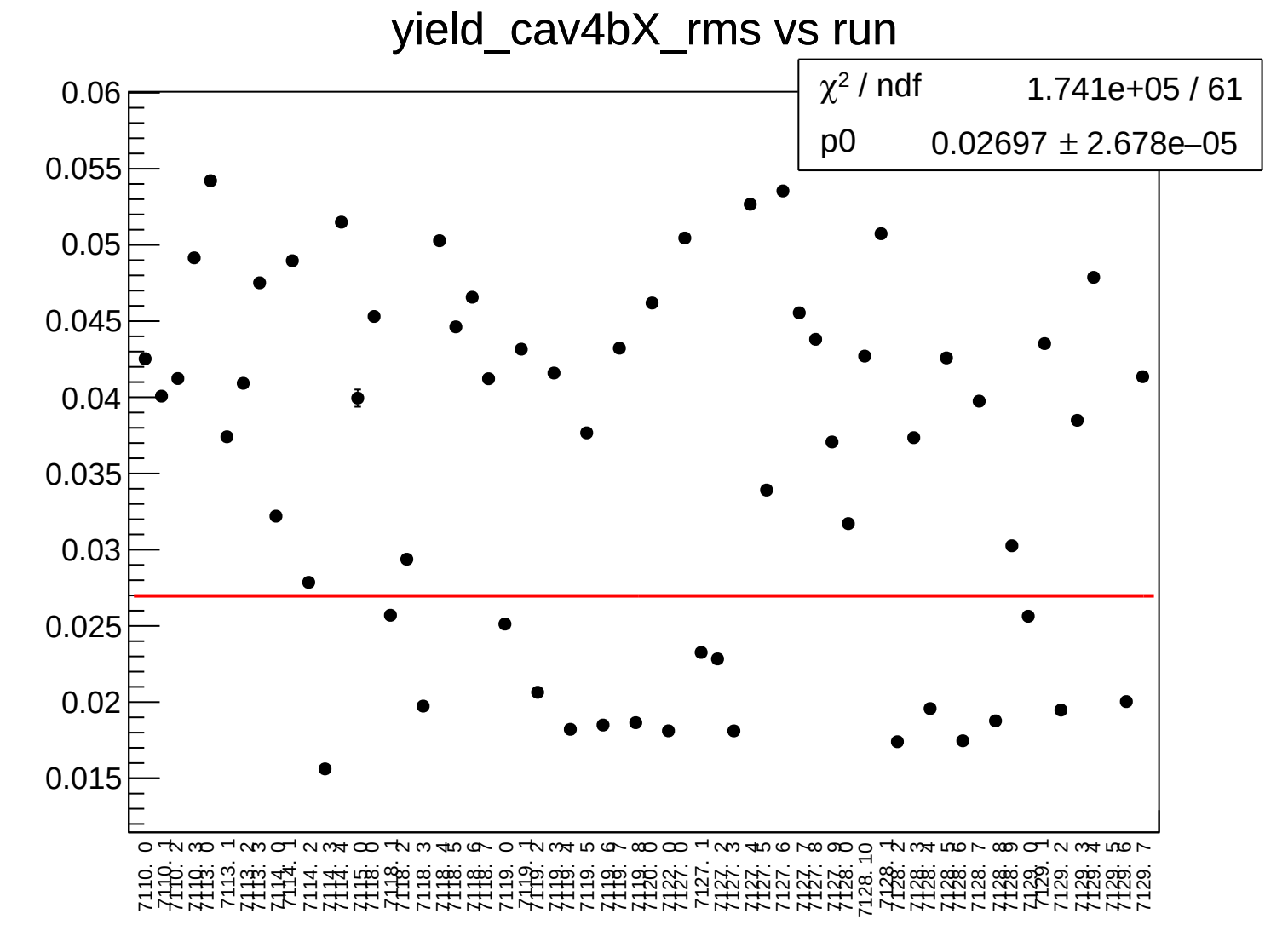

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

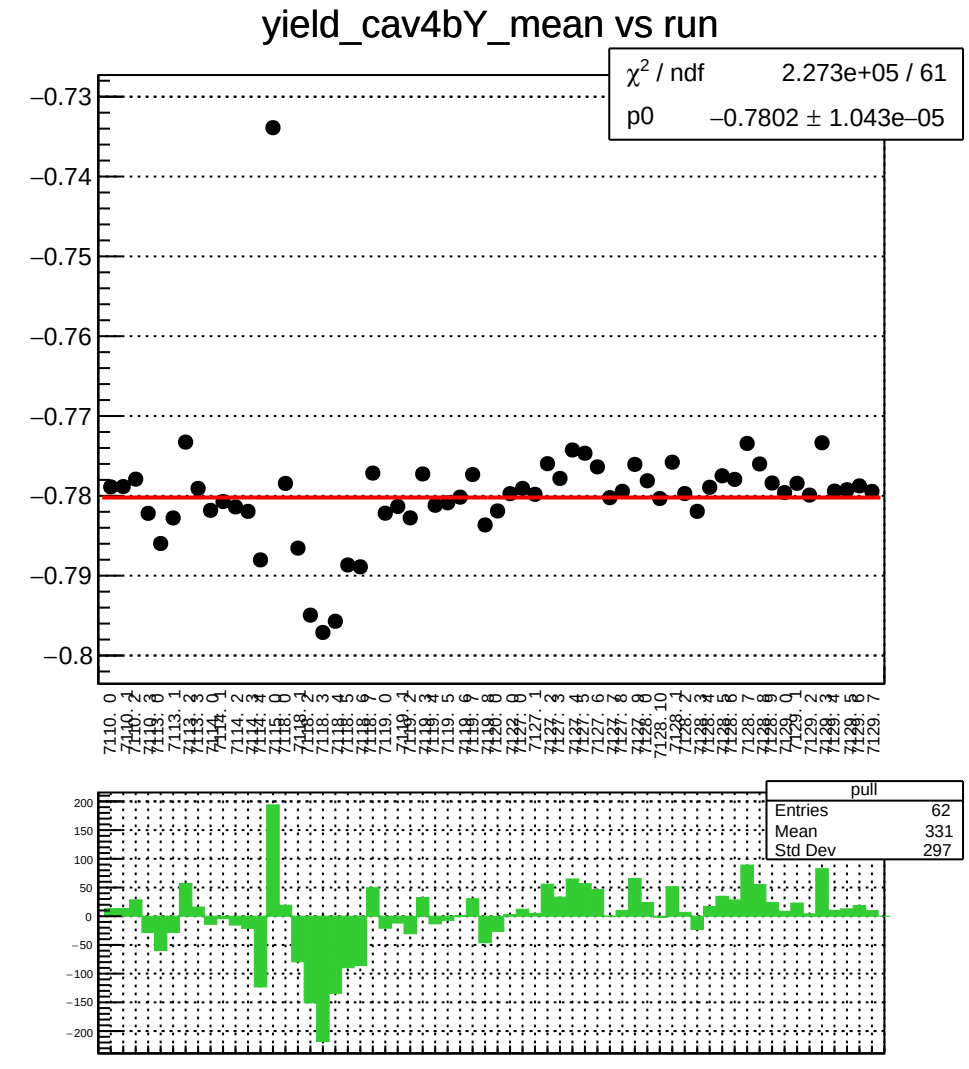

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

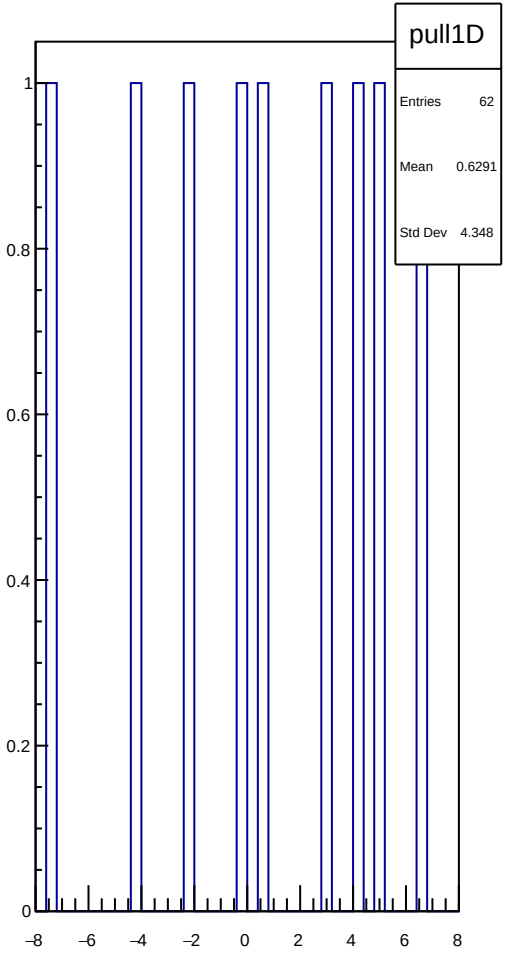

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

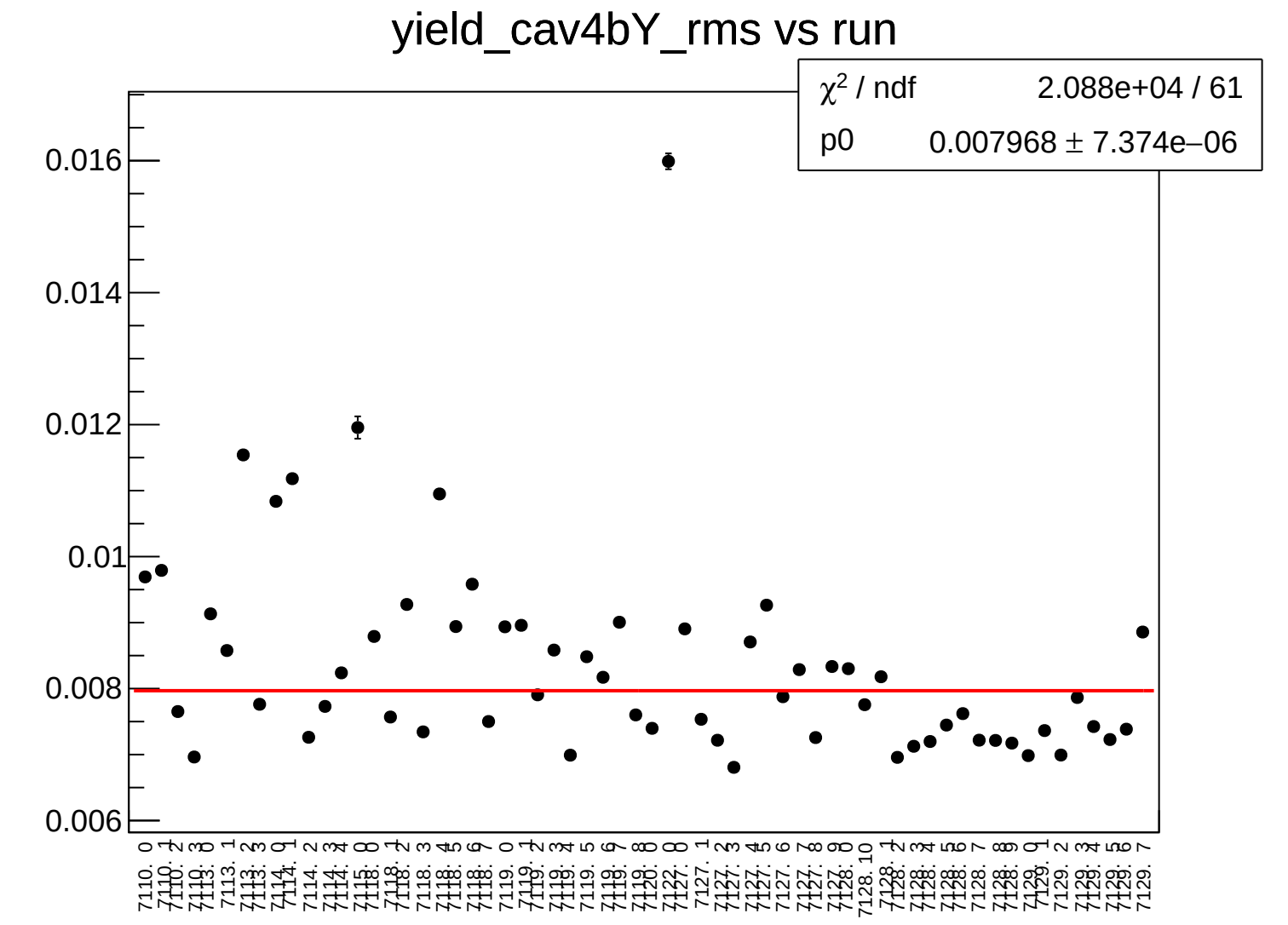

yield_cav4bX_mean vs run
χ² / ndf 2.898e+05 / 61
p0 −0.5765 ± 3.787e−05
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
pull
Entries 62
Mean −5.636
Std Dev 37.35
150
100
50
0
−50
−100
−150
−200
−250

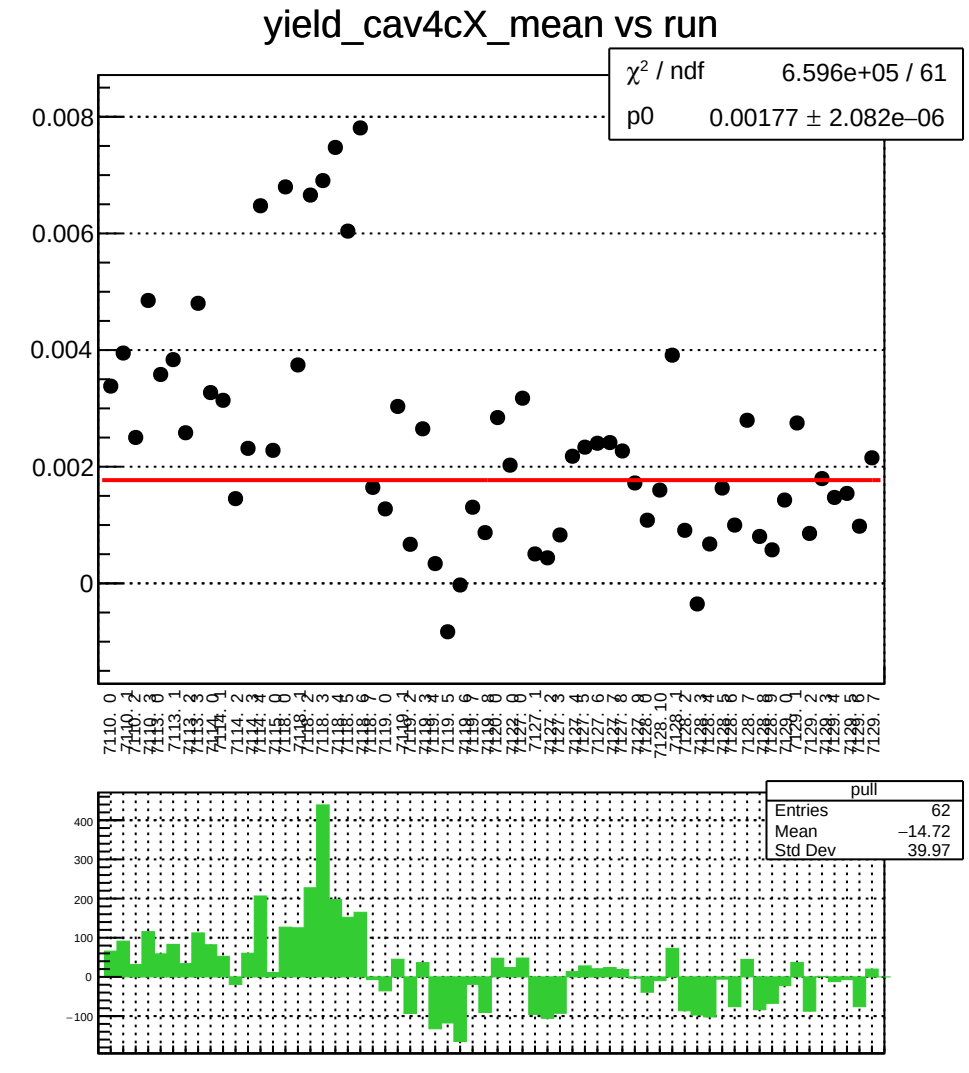

pull1D
Entries 62
Mean 0.6302
Std Dev 3.62
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

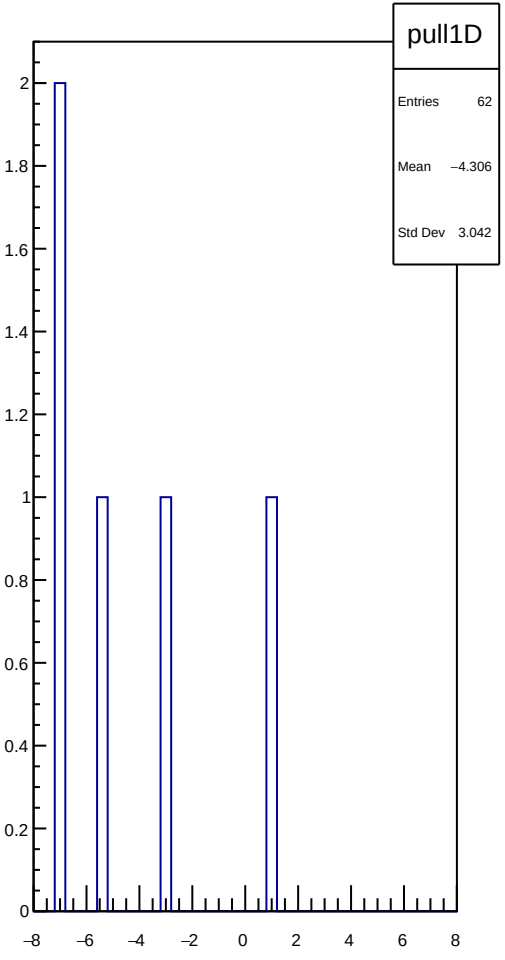

yield_cav4bX_rms vs run
χ² / ndf 1.741e+05 / 61
p0 0.02697 ± 2.678e−05
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

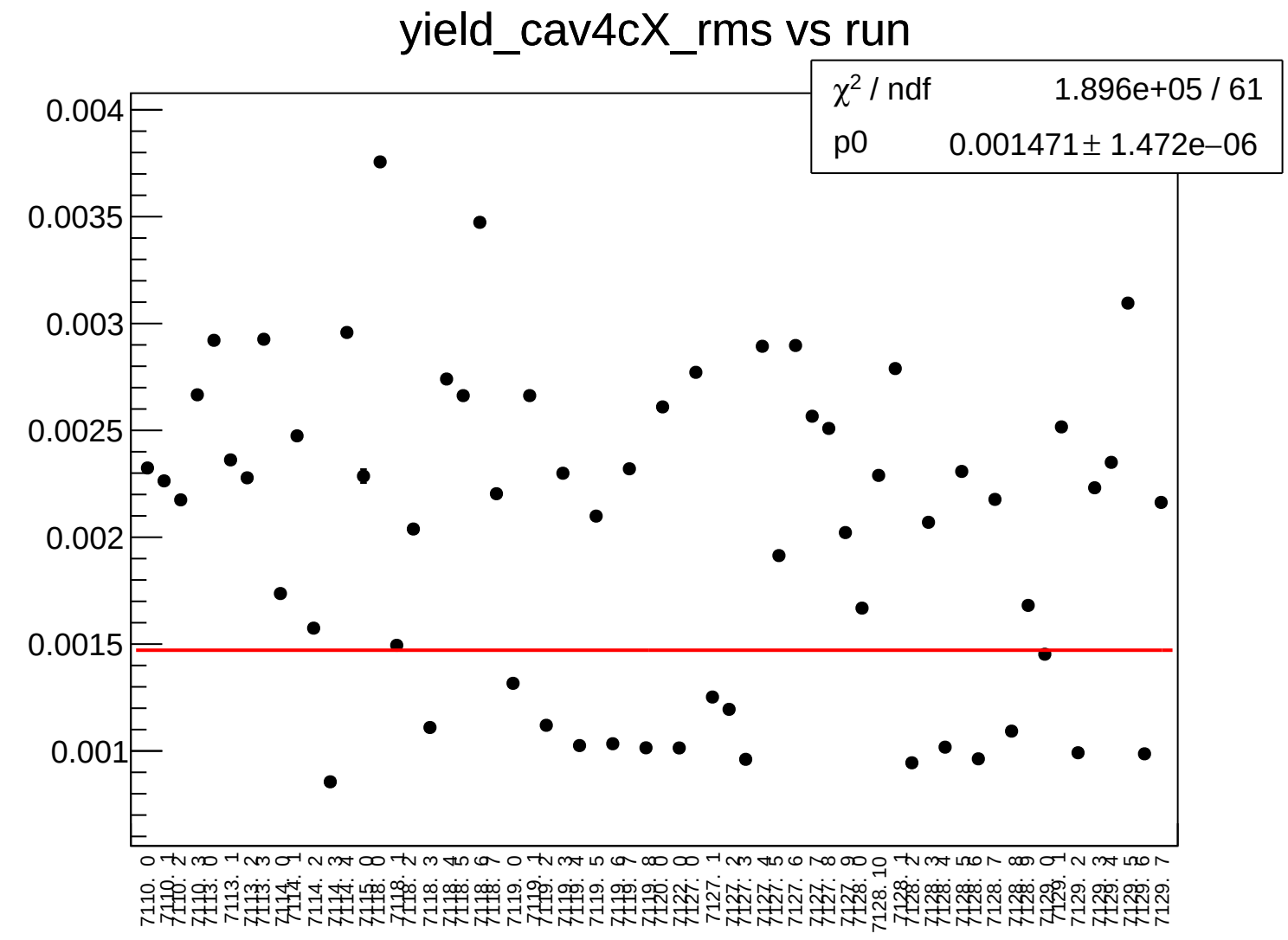

yield_cav4bY_mean vs run
χ² / ndf 2.273e+05 / 61
p0 −0.7802 ± 1.043e−05
−0.73
−0.74
−0.75
−0.76
−0.77
−0.78
−0.79
−0.8
pull
Entries 62
Mean 331
Std Dev 297
200
150
100
50
0
−50
−100
−150
−200

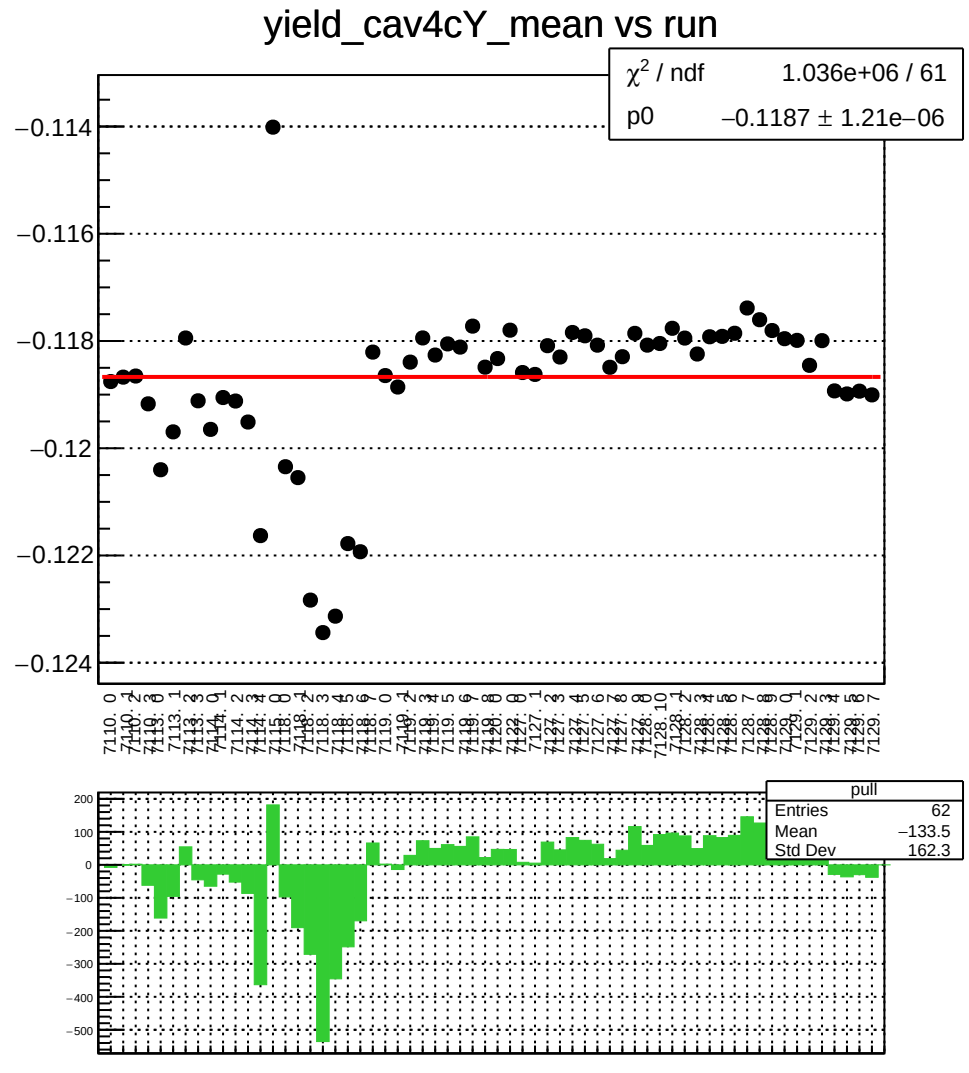

pull1D
Entries 62
Mean 0.6291
Std Dev 4.348
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

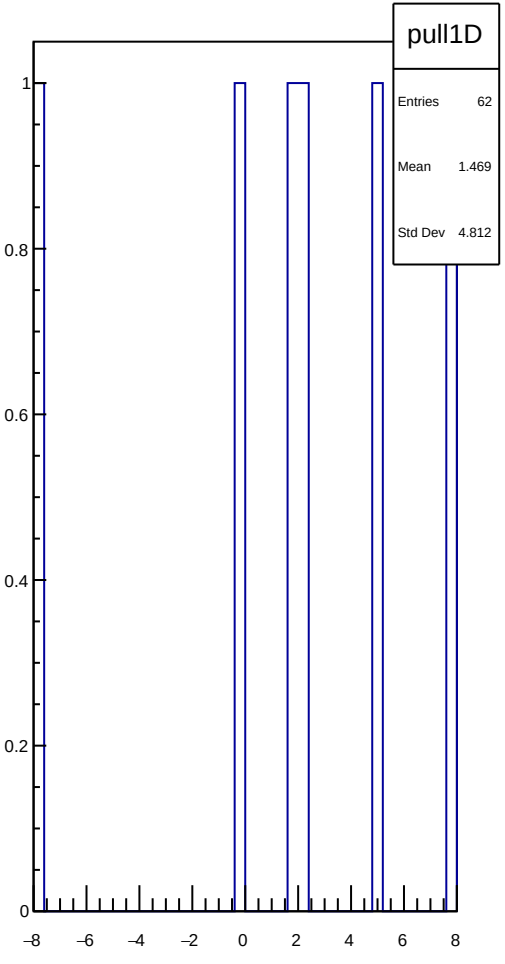

yield_cav4bY_rms vs run
χ² / ndf 2.088e+04 / 61
p0 0.007968 ± 7.374e−06
0.016
0.014
0.012
0.01
0.008
0.006

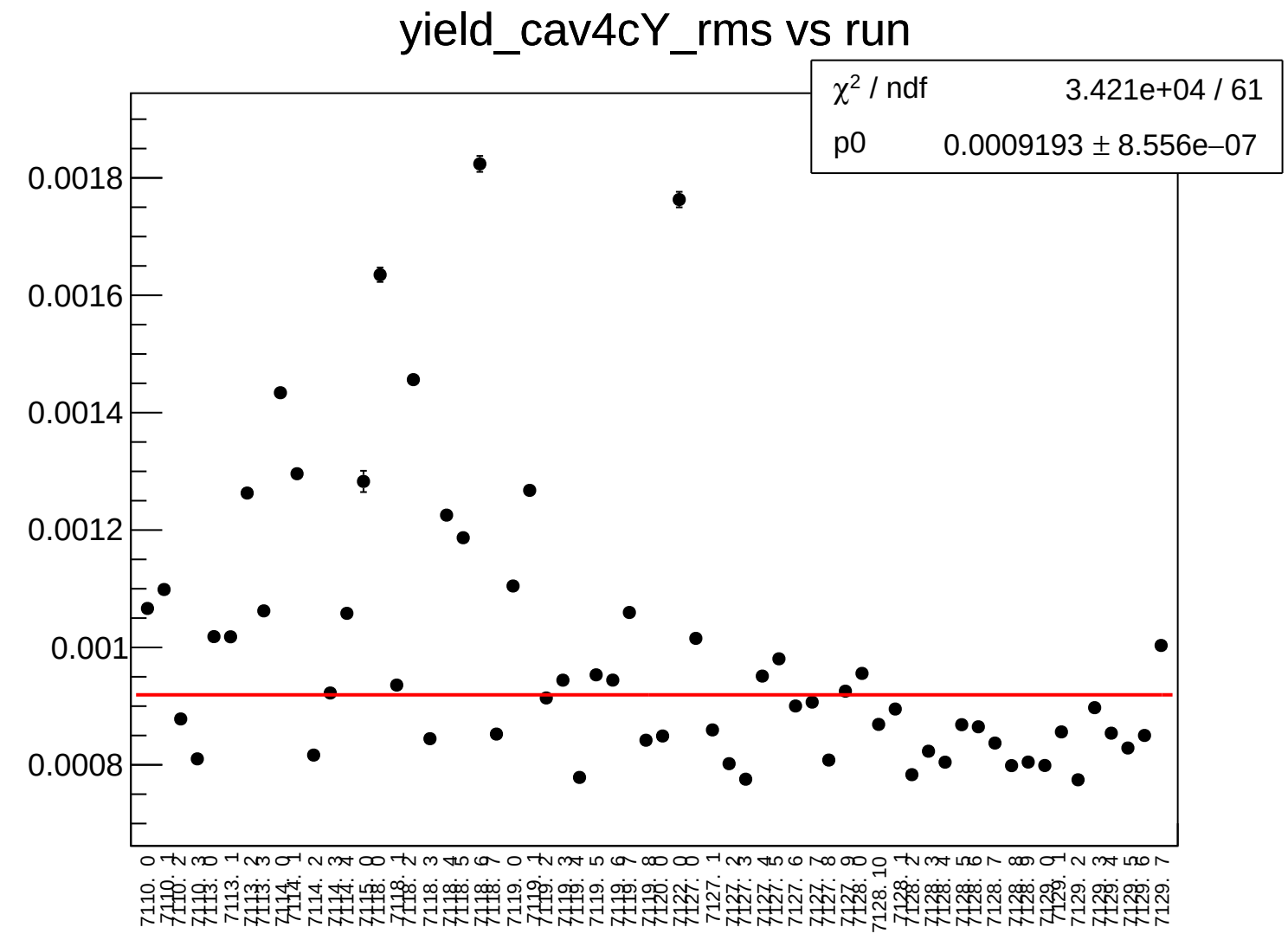

yield_cav4cX_mean vs run
χ² / ndf 6.596e+05 / 61
p0 0.00177 ± 2.082e−06
0.008
0.006
0.004
0.002
0
pull
Entries 62
Mean −14.72
Std Dev 39.97
400
300
200
100
0
−100

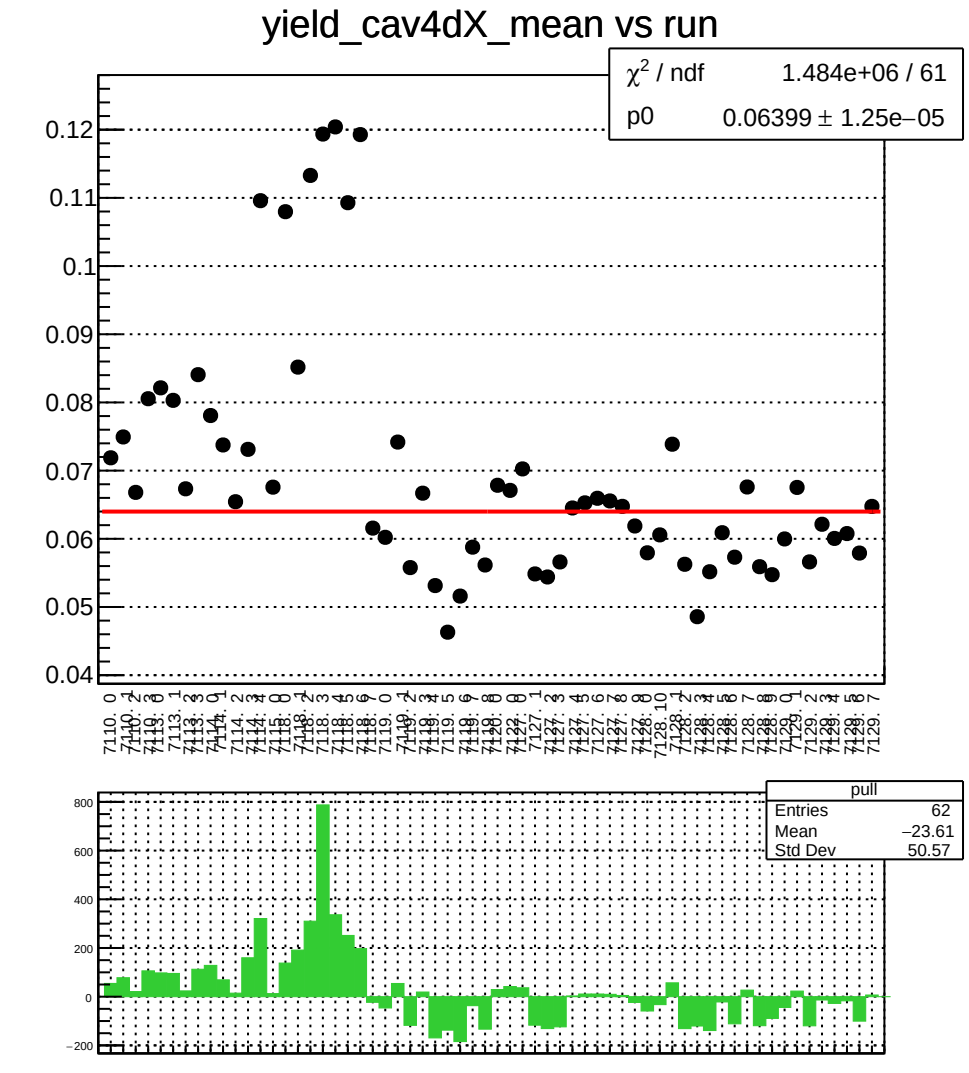

pull1D
Entries 62
Mean −4.306
Std Dev 3.042
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

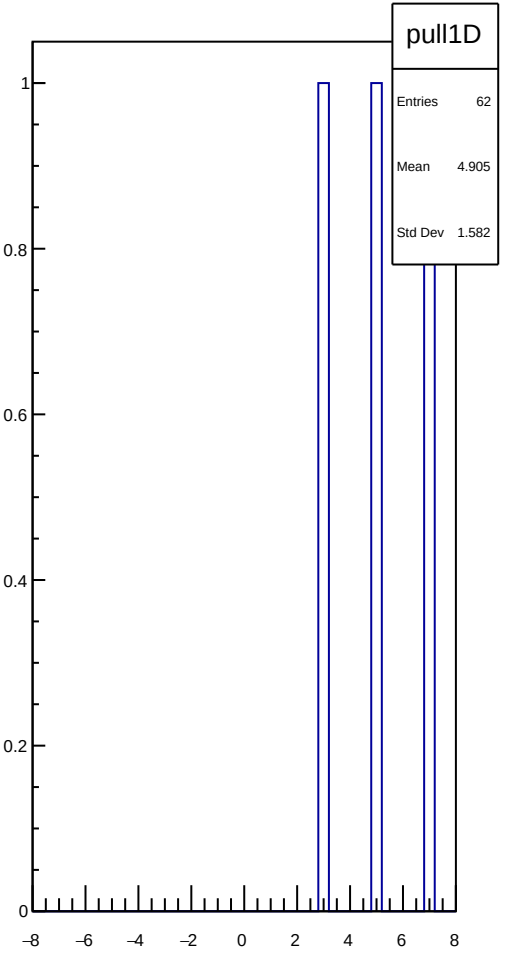

yield_cav4cX_rms vs run
χ² / ndf 1.896e+05 / 61
p0 0.001471 ± 1.472e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

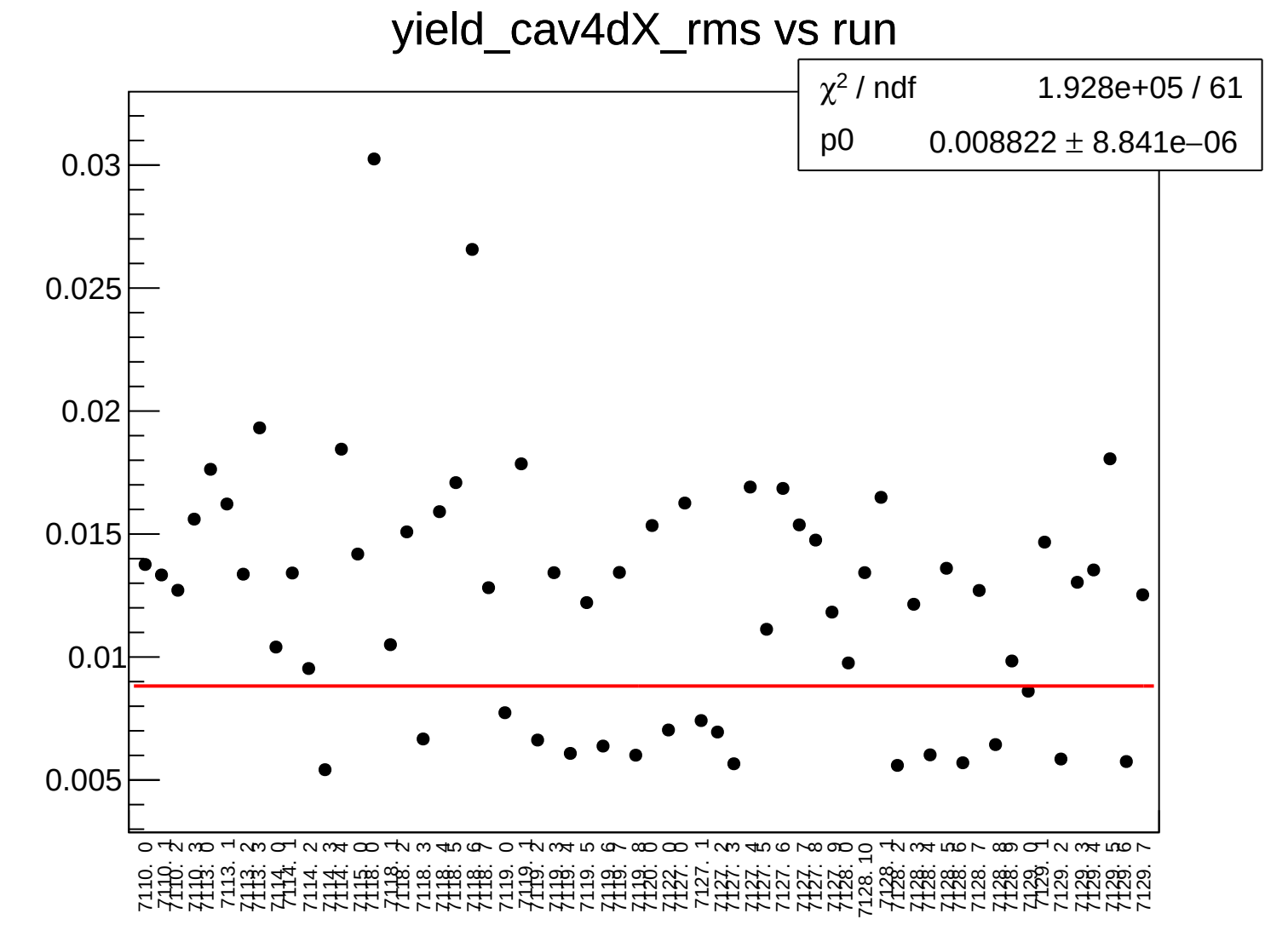

yield_cav4cY_mean vs run
χ² / ndf 1.036e+06 / 61
p0 −0.1187 ± 1.21e−06
−0.114
−0.116
−0.118
−0.12
−0.122
−0.124
pull
Entries 62
Mean −133.5
Std Dev 162.3
200
100
0
−100
−200
−300
−400
−500

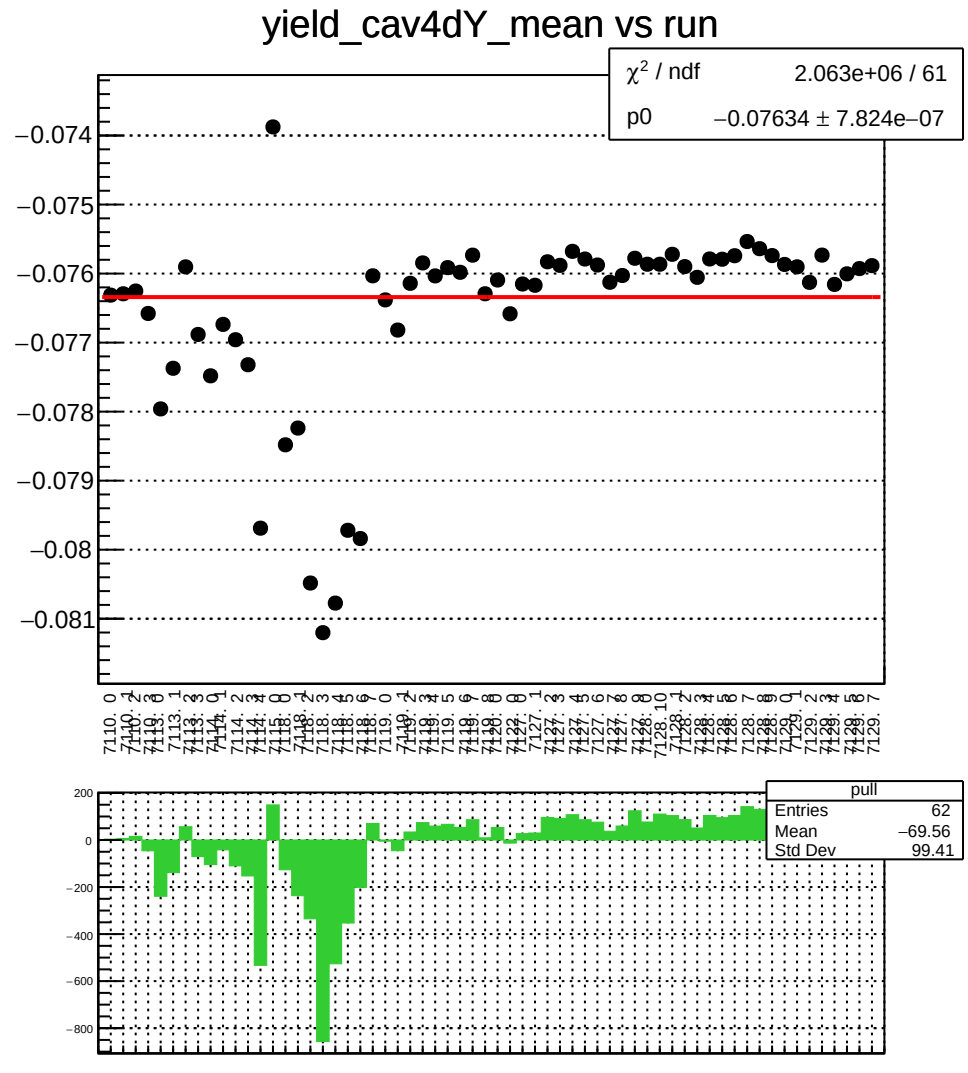

pull1D
Entries 62
Mean 1.469
Std Dev 4.812
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

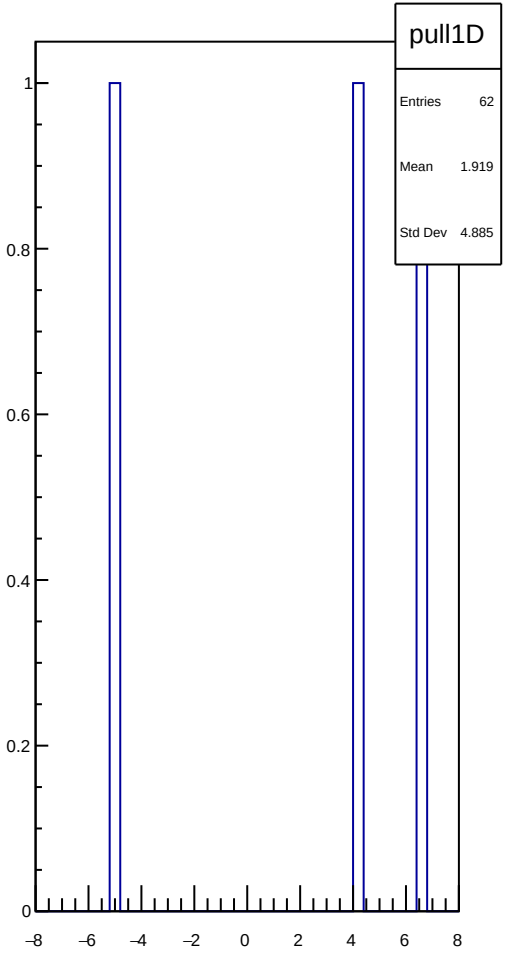

yield_cav4cY_rms vs run
χ² / ndf 3.421e+04 / 61
p0 0.0009193 ± 8.556e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

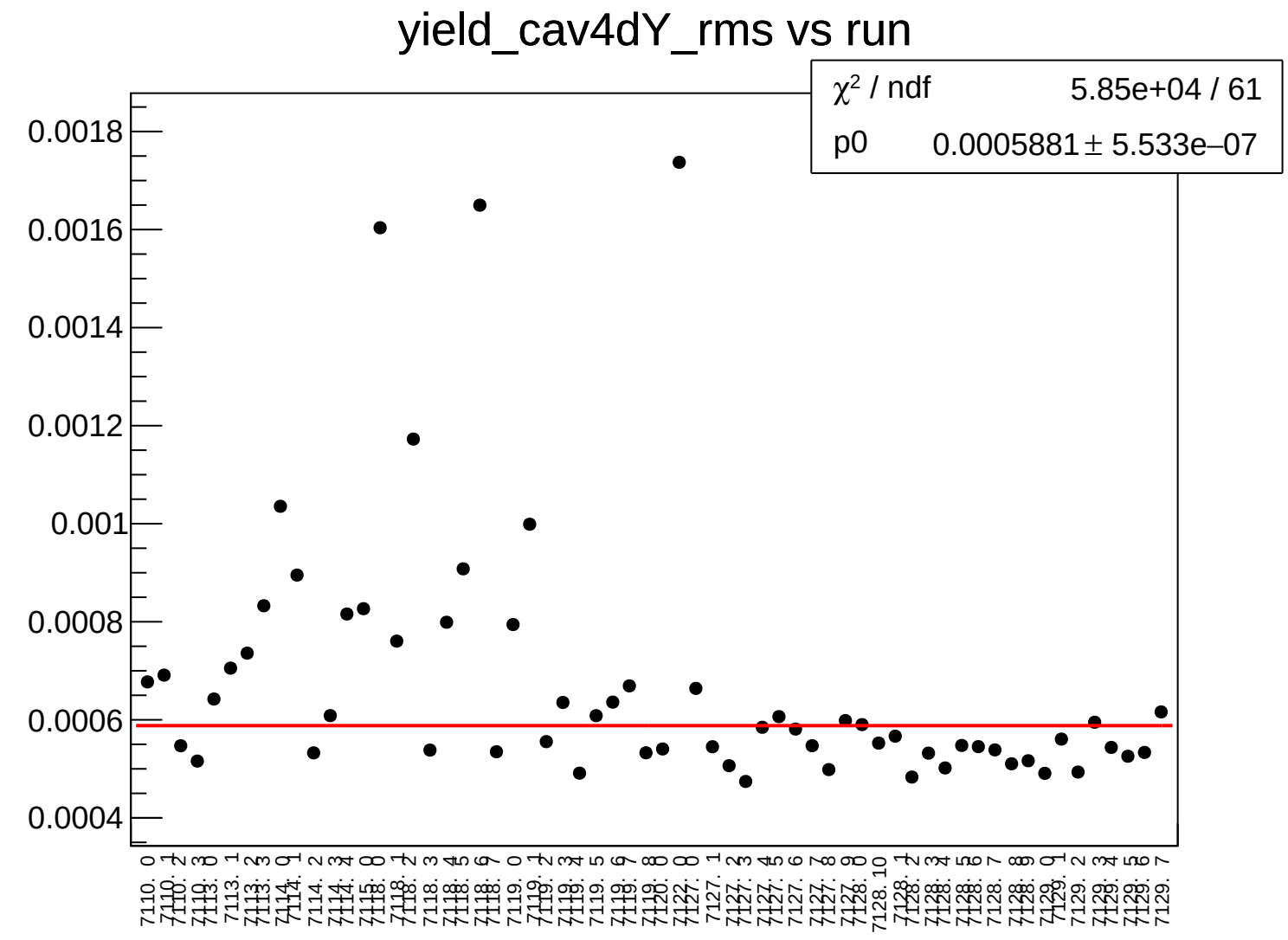

yield_cav4dX_mean vs run
χ² / ndf 1.484e+06 / 61
p0 0.06399 ± 1.25e−05
pull
Entries 62
Mean −23.61
Std Dev 50.57

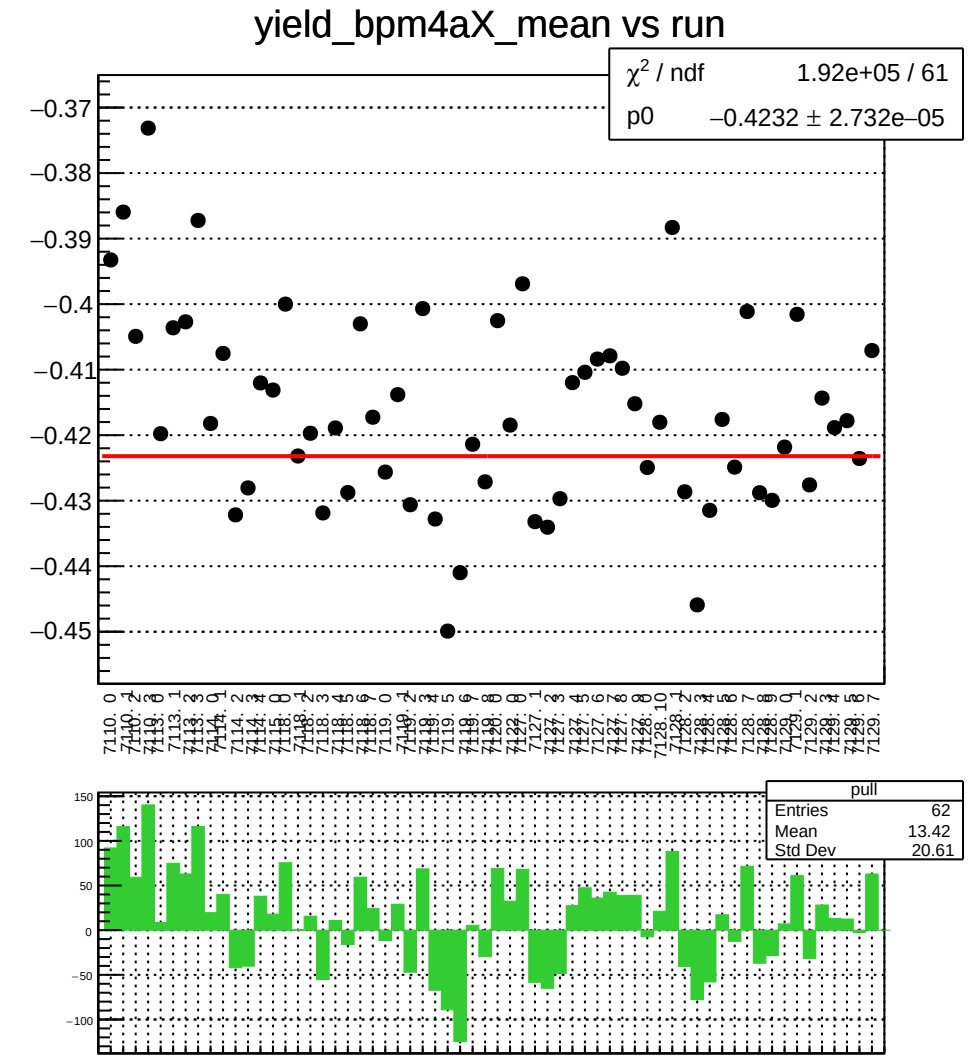

pull1D
Entries 62
Mean 4.905
Std Dev 1.582

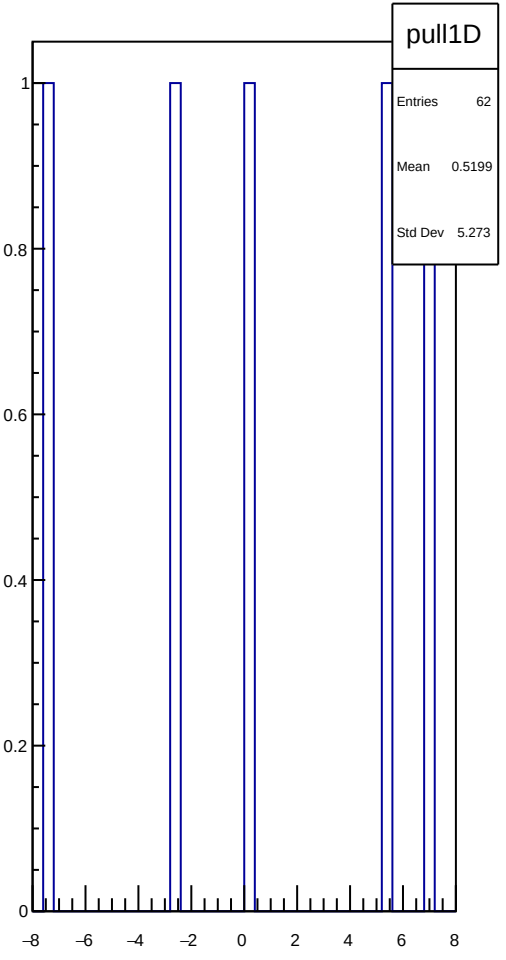

yield_cav4dX_rms vs run
χ² / ndf 1.928e+05 / 61
p0 0.008822 ± 8.841e−06
0.03
0.025
0.02
0.015
0.01
0.005

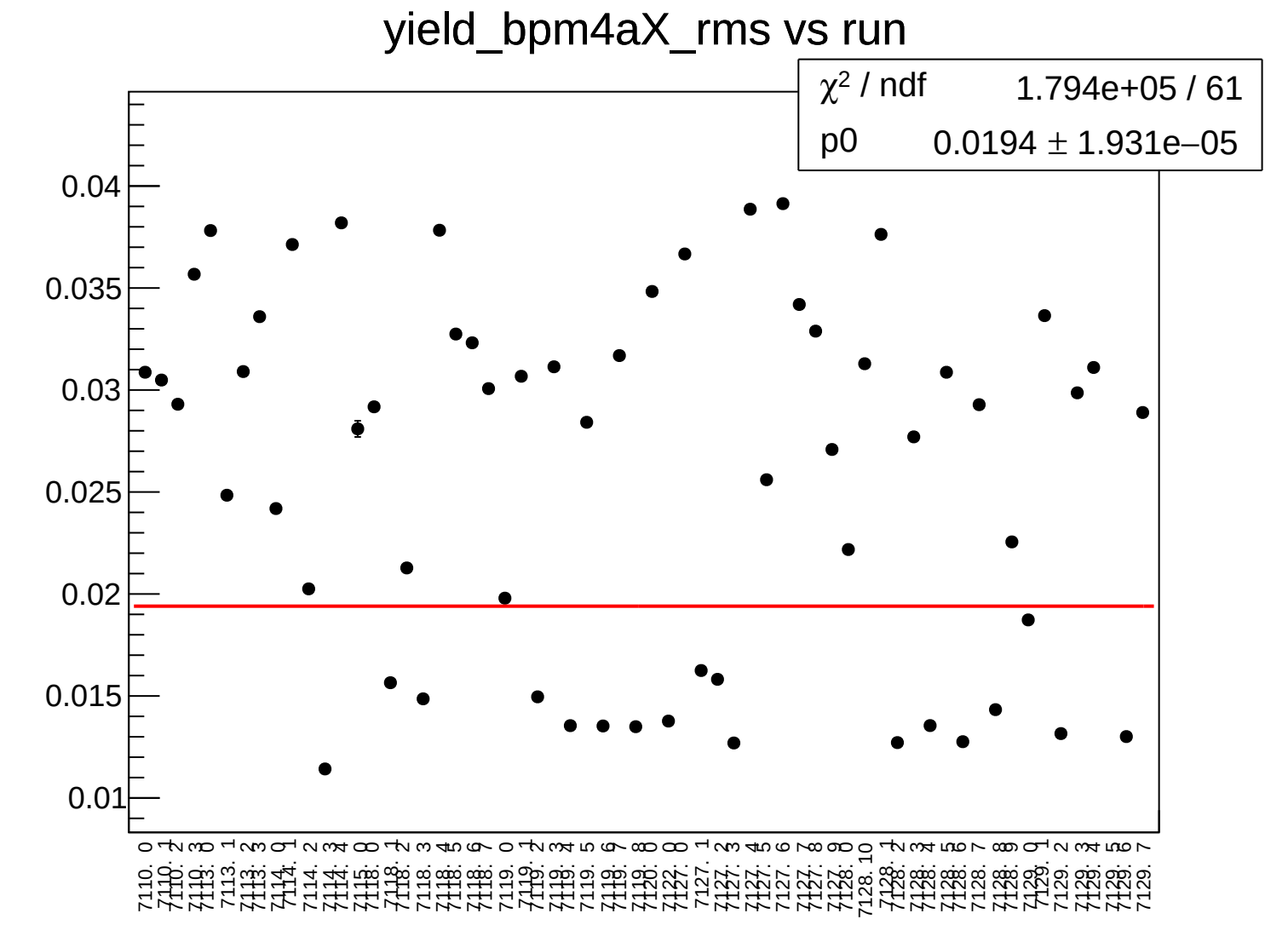

yield_cav4dY_mean vs run
χ² / ndf 2.063e+06 / 61
p0 −0.07634 ± 7.824e−07
−0.074
−0.075
−0.076
−0.077
−0.078
−0.079
−0.08
−0.081
pull
Entries 62
Mean −69.56
Std Dev 99.41
200
0
−200
−400
−600
−800

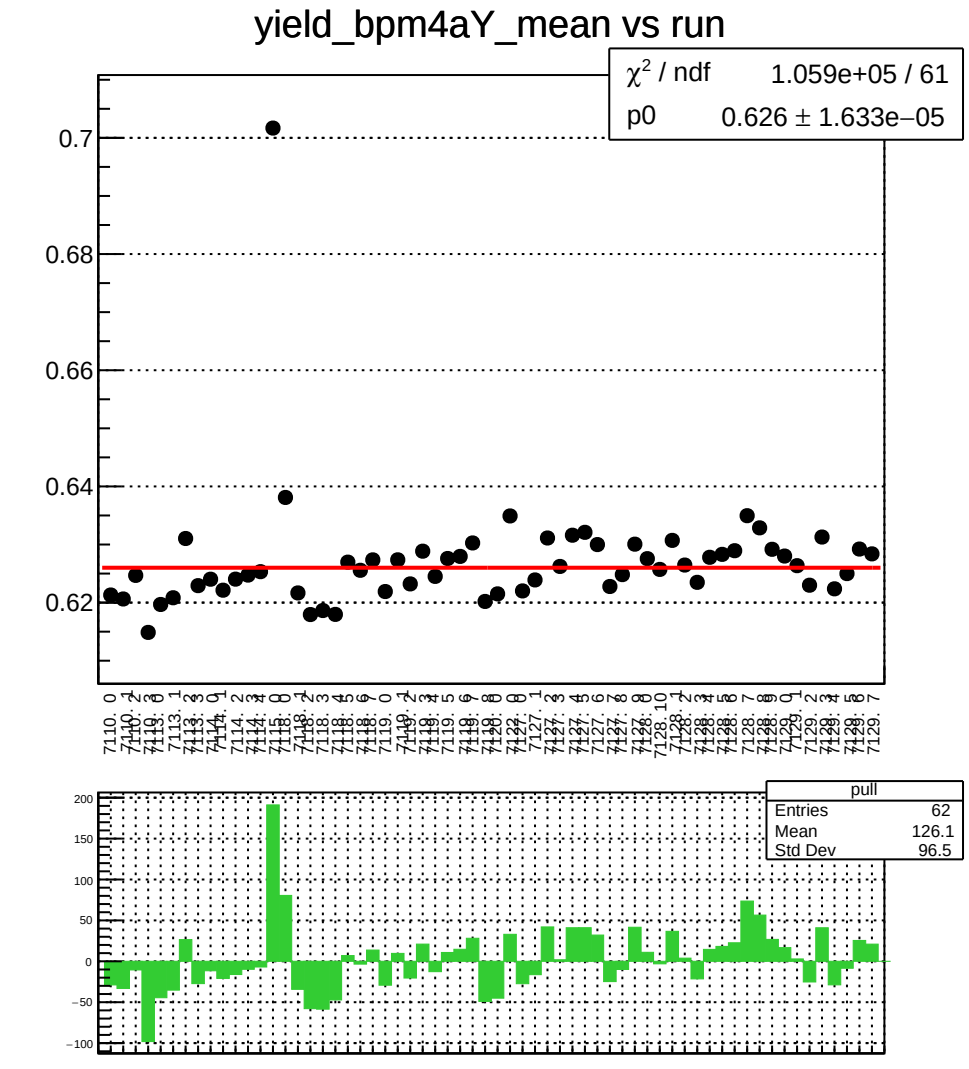

pull1D
Entries 62
Mean 1.919
Std Dev 4.885
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

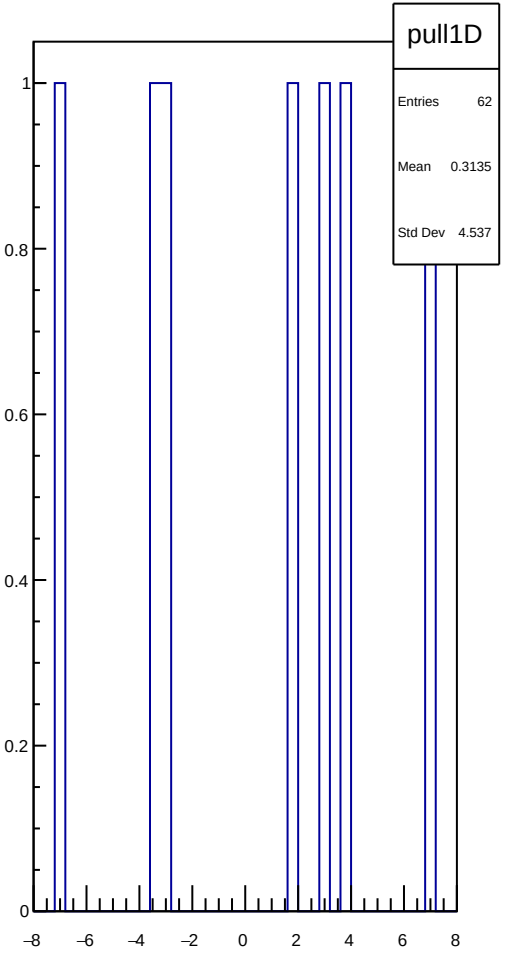

yield_cav4dY_rms vs run
χ² / ndf 5.85e+04 / 61
p0 0.0005881 ± 5.533e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

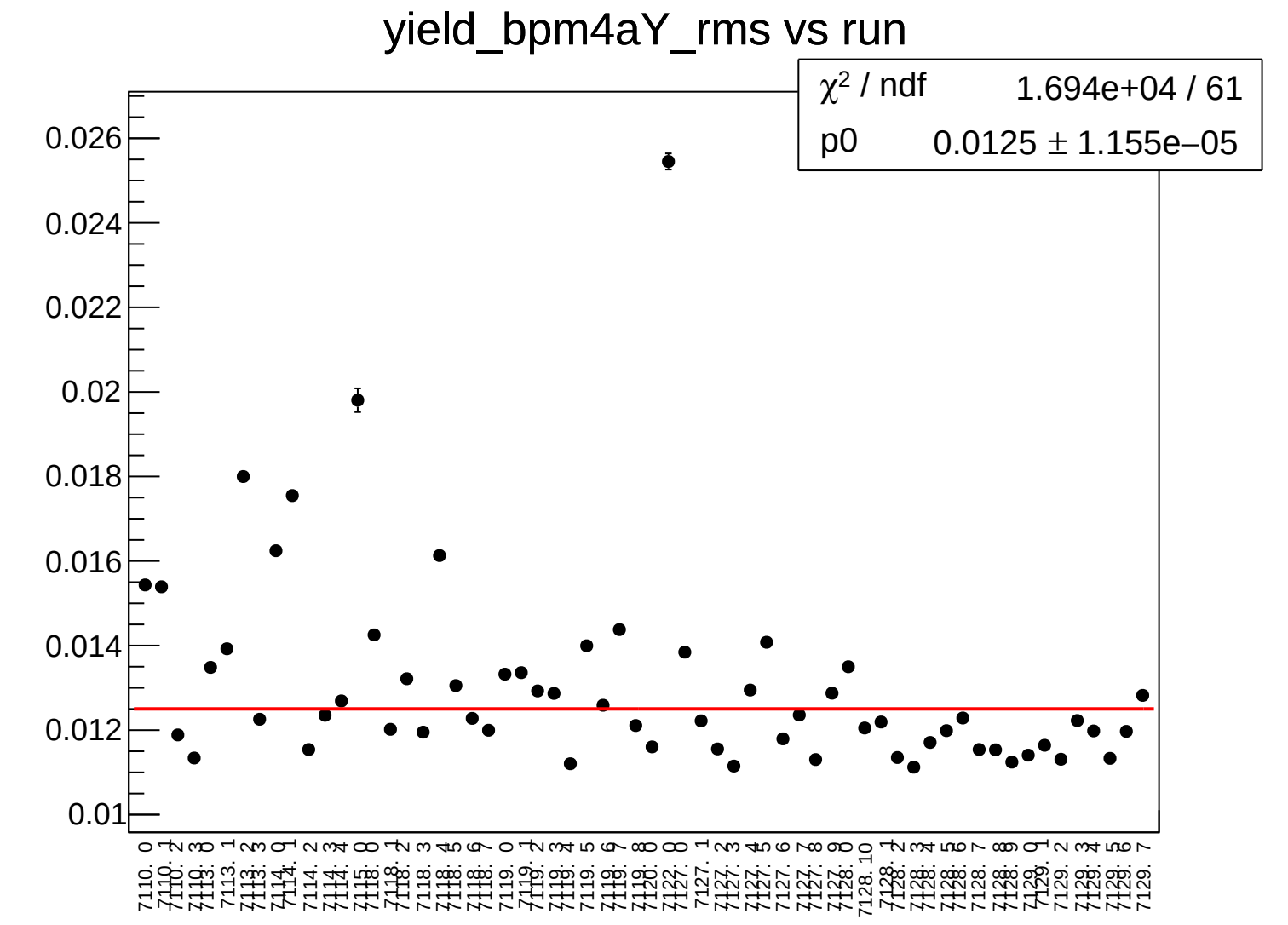

yield_bpm4aX_mean vs run
χ² / ndf 1.92e+05 / 61
p0 −0.4232 ± 2.732e−05
−0.37
−0.38
−0.39
−0.4
−0.41
−0.42
−0.43
−0.44
−0.45
pull
Entries 62
Mean 13.42
Std Dev 20.61
150
100
50
0
−50
−100

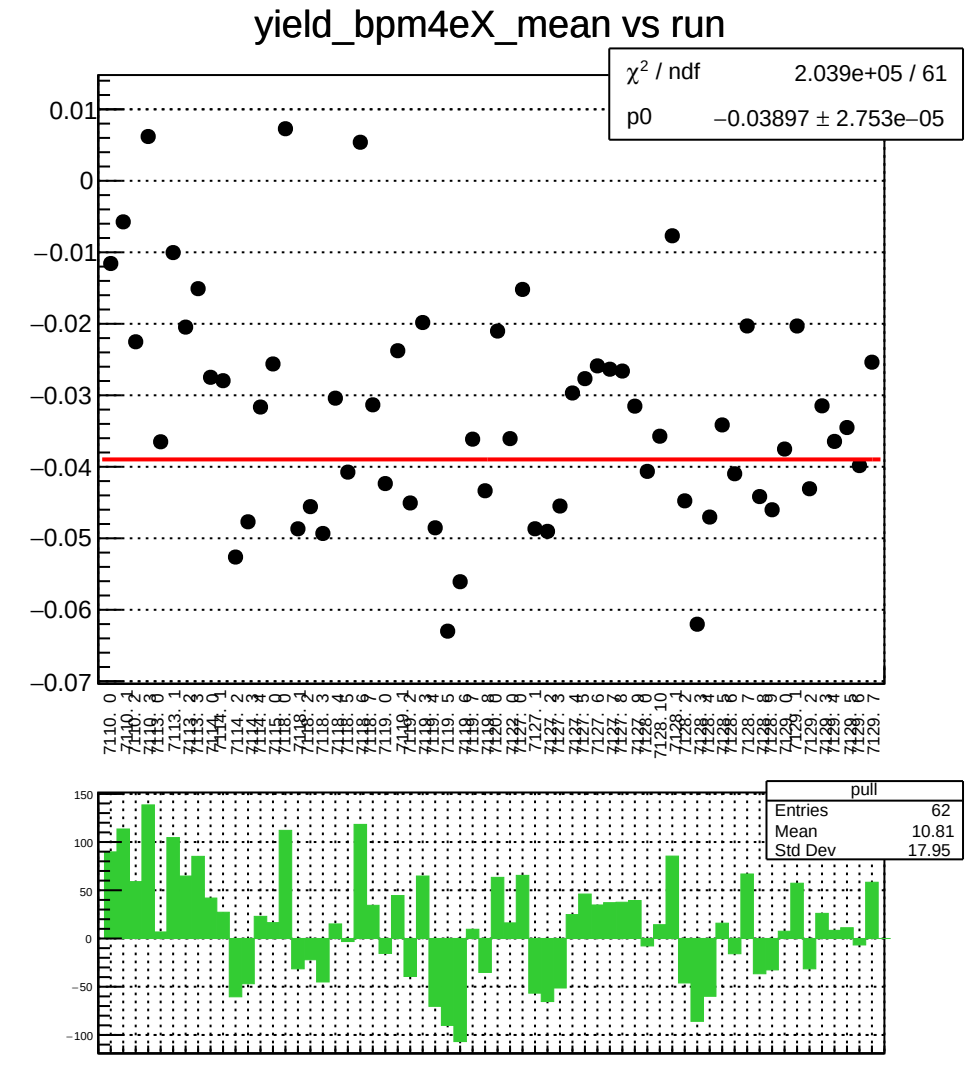

pull1D
Entries 62
Mean 0.5199
Std Dev 5.273
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

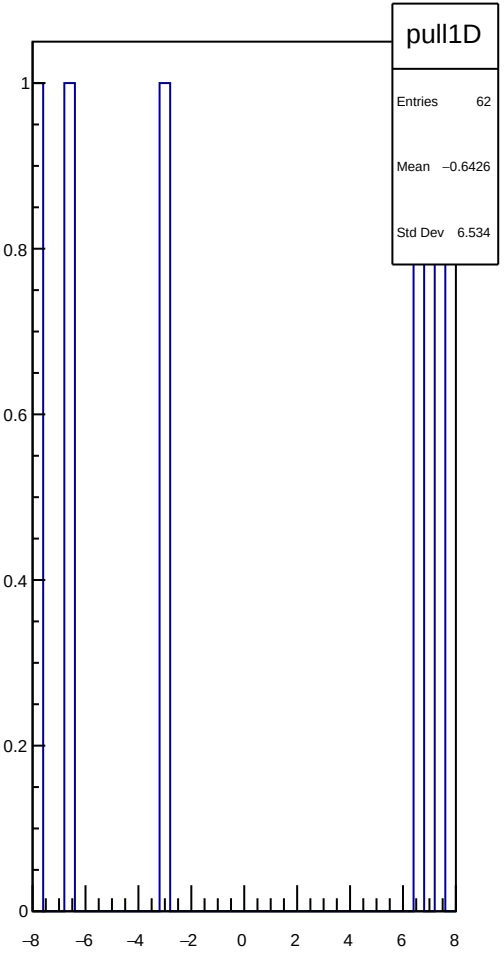

yield_bpm4aX_rms vs run
χ² / ndf 1.794e+05 / 61
p0 0.0194 ± 1.931e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

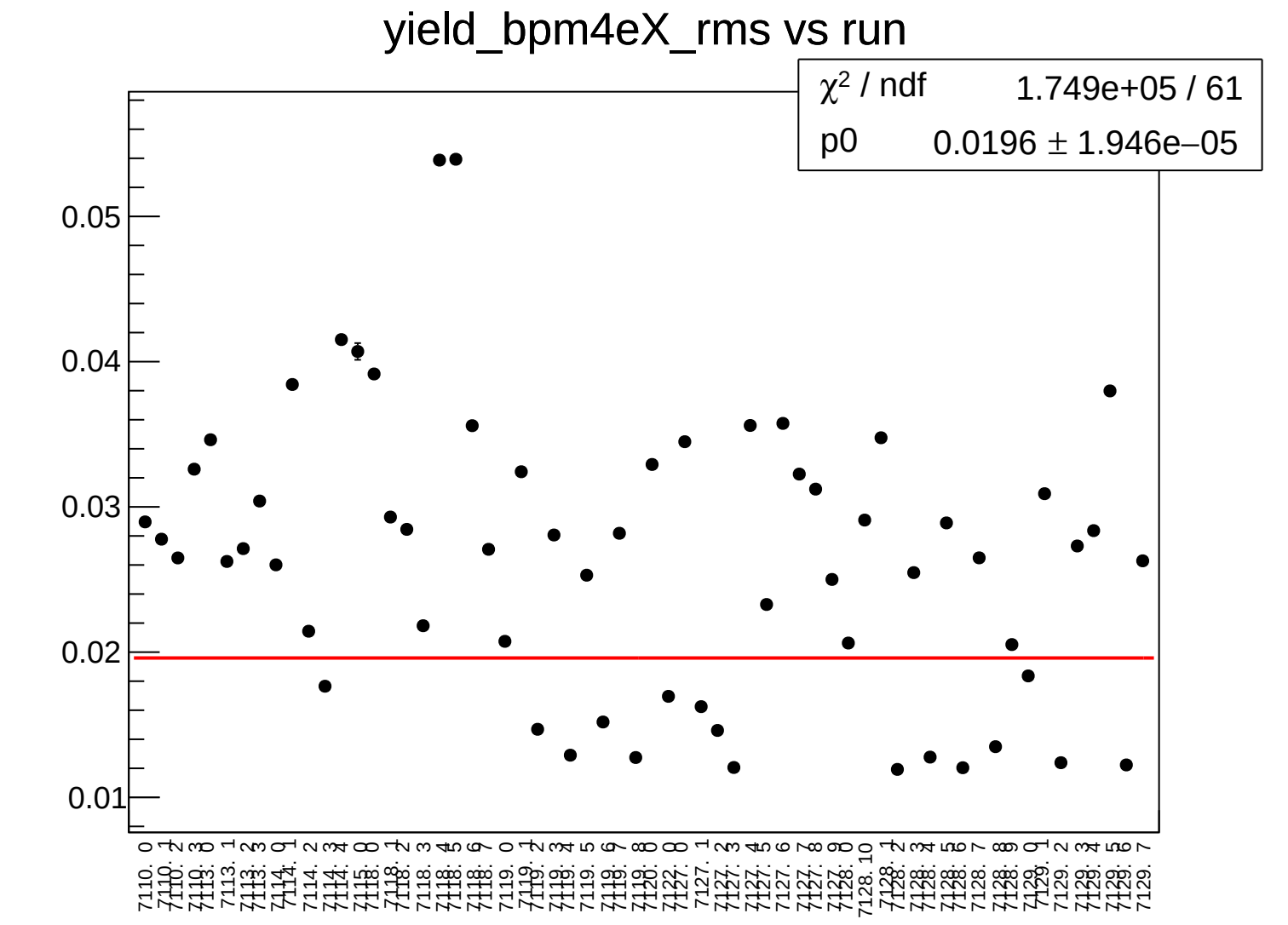

yield_bpm4aY_mean vs run
χ² / ndf 1.059e+05 / 61
p0 0.626 ± 1.633e−05
0.7
0.68
0.66
0.64
0.62
pull
Entries 62
Mean 126.1
Std Dev 96.5
200
150
100
50
0
−50
−100

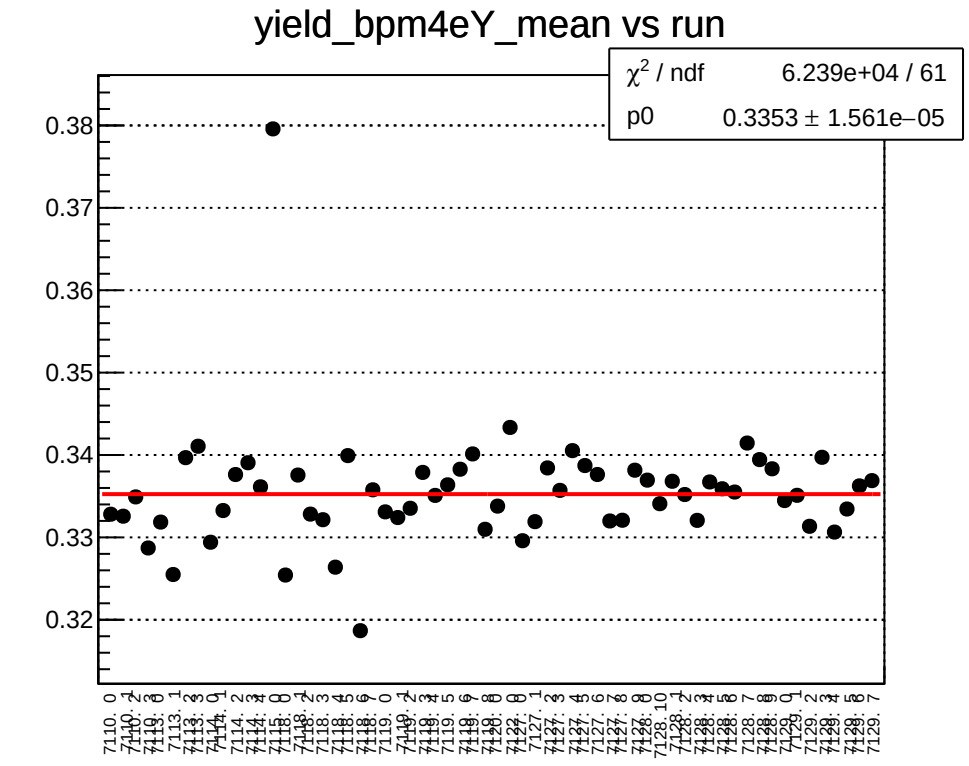

pull1D
Entries 62
Mean 0.3135
Std Dev 4.537
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

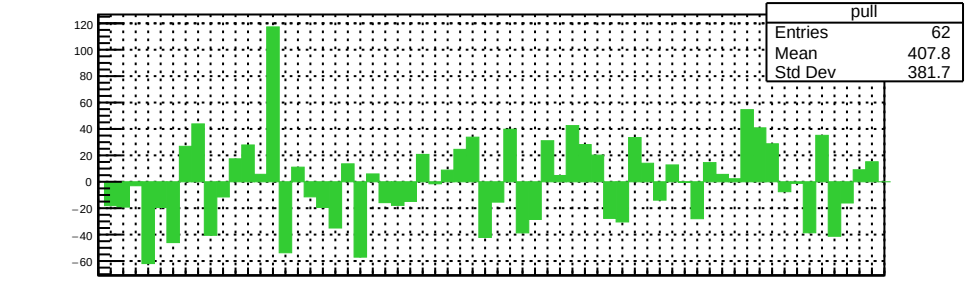

yield_bpm4aY_rms vs run
χ² / ndf 1.694e+04 / 61
p0 0.0125 ± 1.155e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

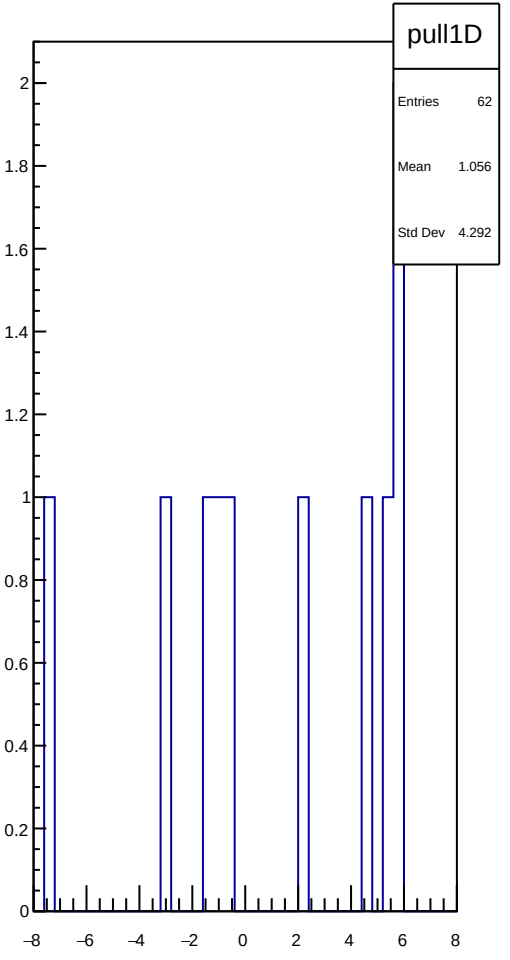

yield_bpm4eX_mean vs run
χ² / ndf 2.039e+05 / 61
p0 −0.03897 ± 2.753e−05
pull
Entries 62
Mean 10.81
Std Dev 17.95

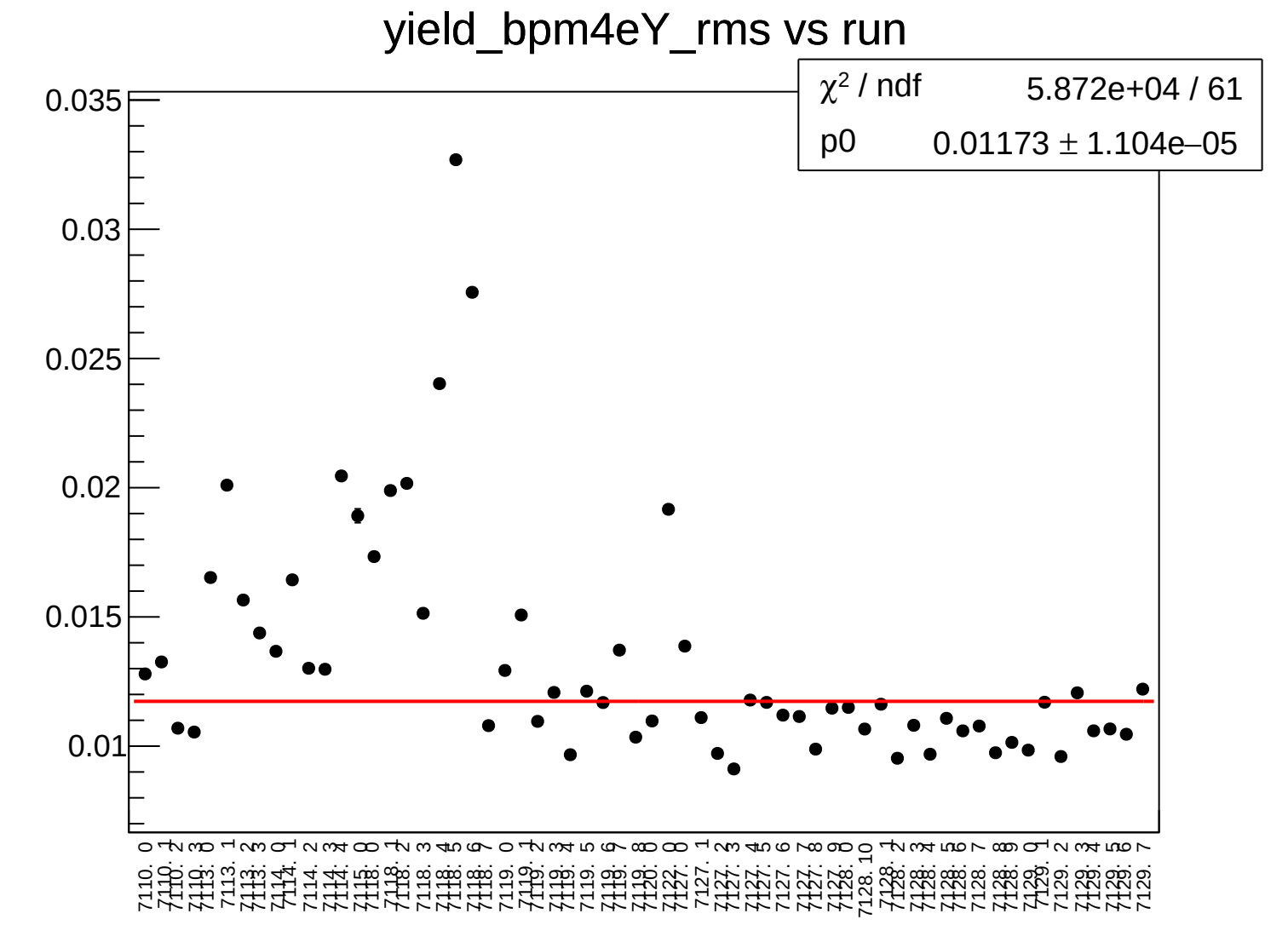

pull1D
Entries 62
Mean −0.6426
Std Dev 6.534

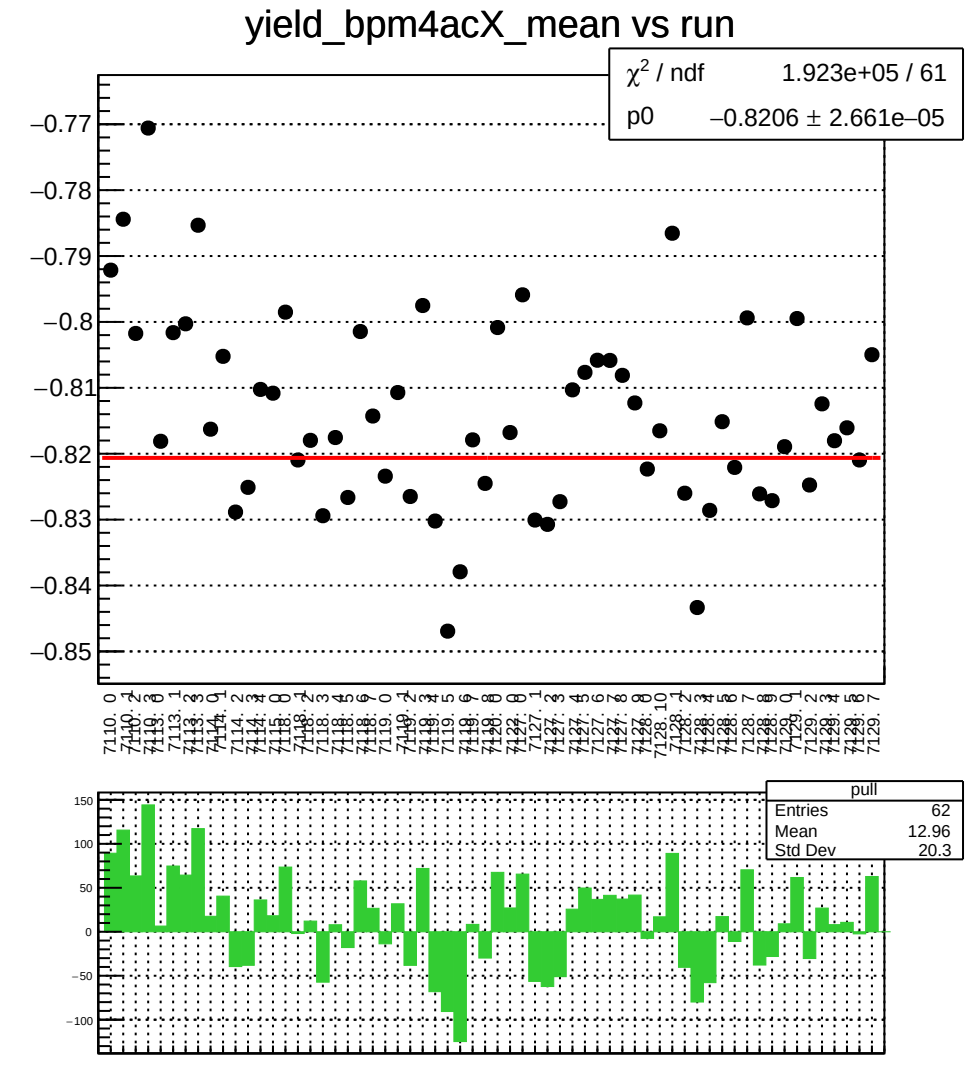

yield_bpm4eX_rms vs run
χ² / ndf 1.749e+05 / 61
p0 0.0196 ± 1.946e−05
0.05
0.04
0.03
0.02
0.01
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

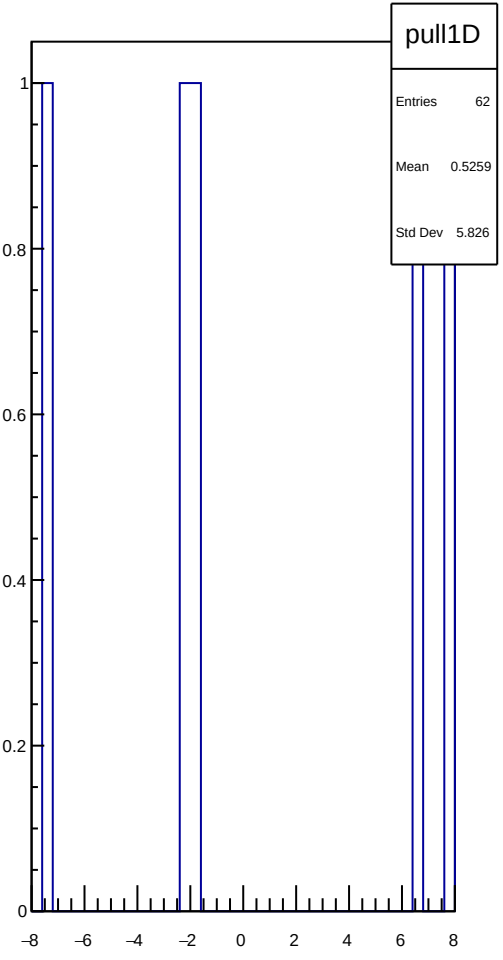

yield_bpm4eY_mean vs run
χ² / ndf 6.239e+04 / 61
p0 0.3353 ± 1.561e−05
0.38
0.37
0.36
0.35
0.34
0.33
0.32

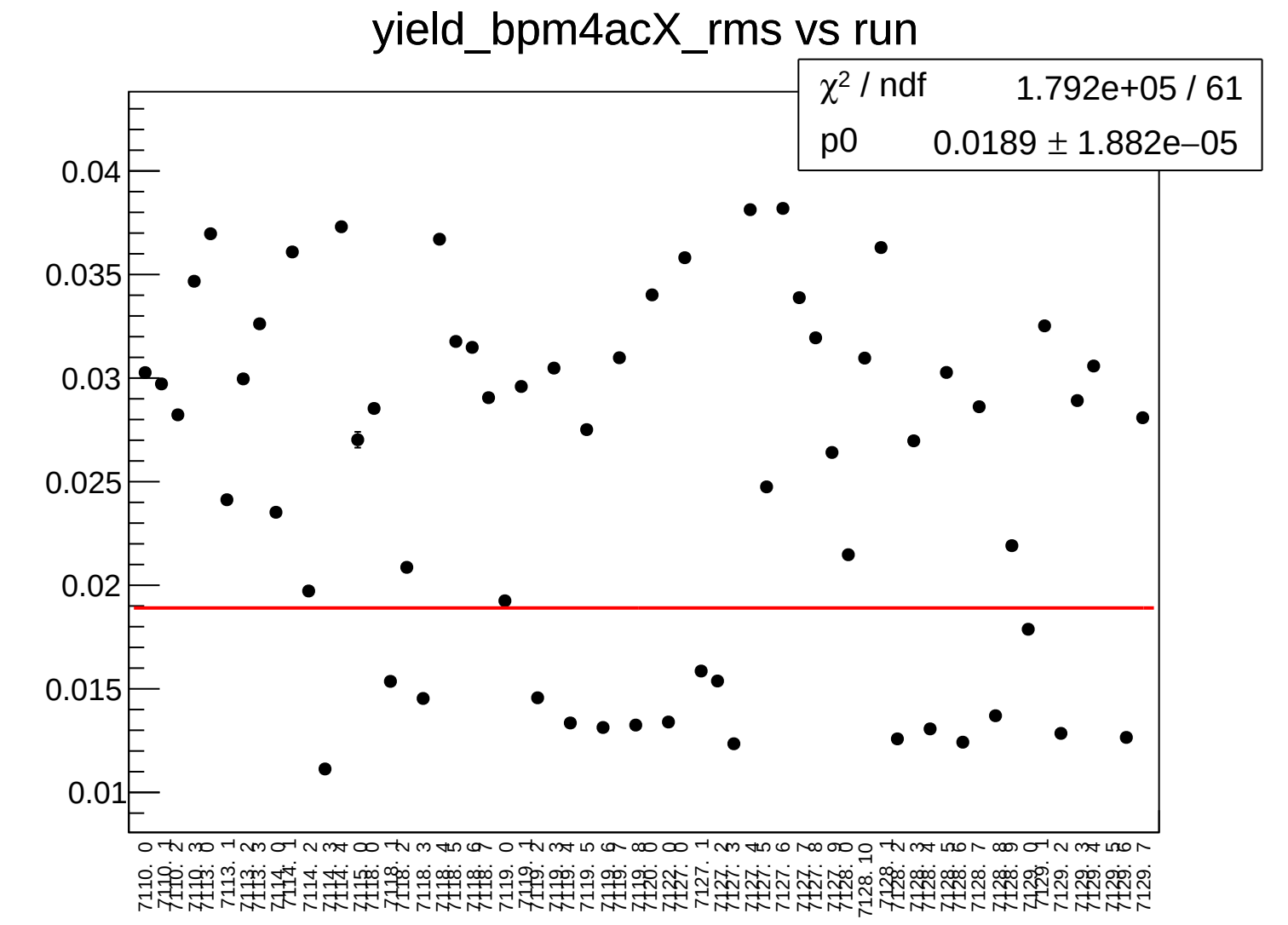

pull
Entries 62
Mean 407.8
Std Dev 381.7
120
100
80
60
40
20
0
−20
−40
−60

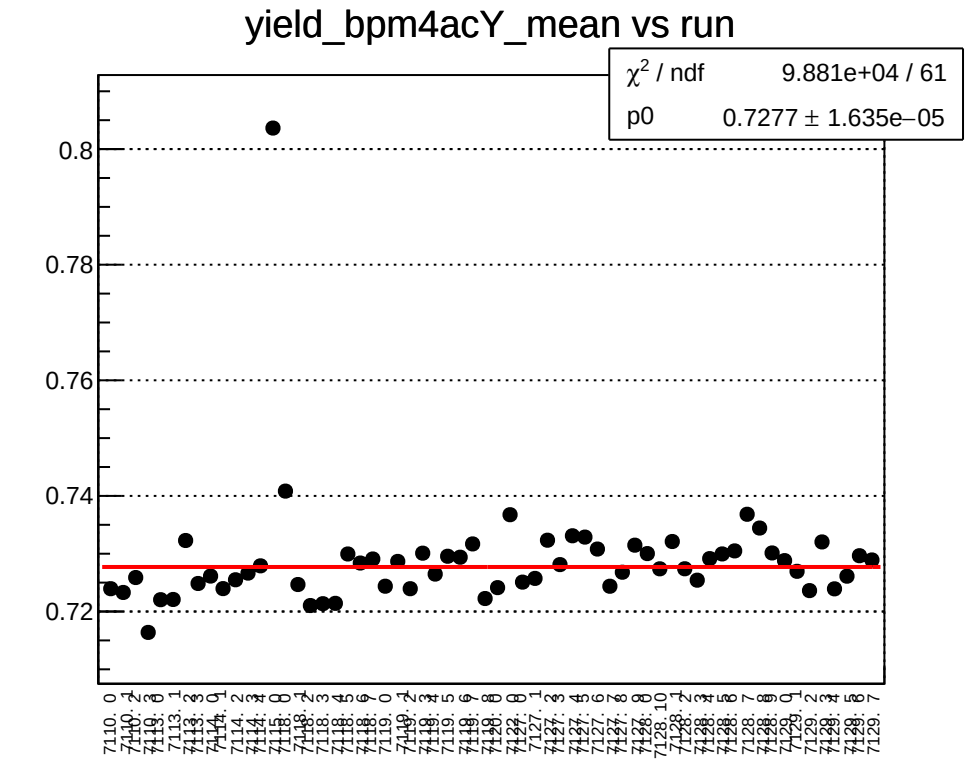

pull1D
Entries 62
Mean 1.056
Std Dev 4.292
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

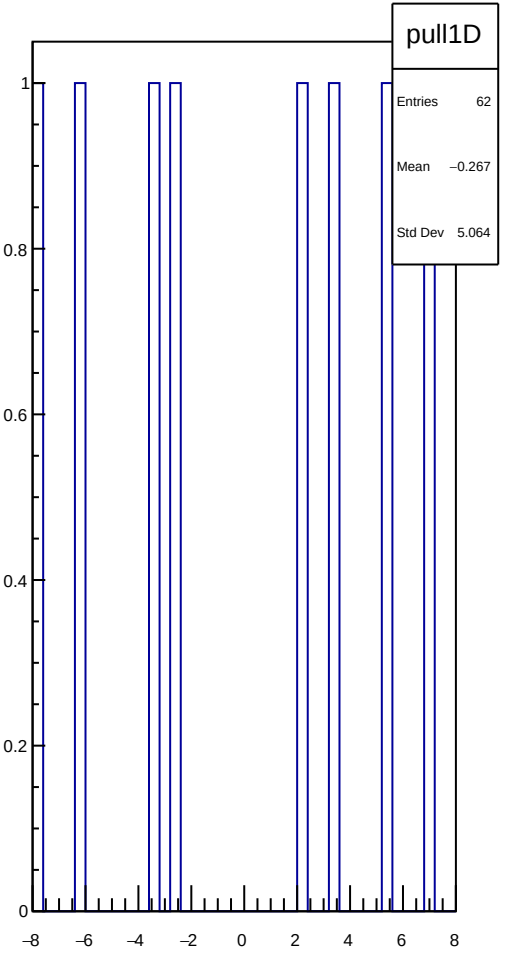

yield_bpm4eY_rms vs run
χ² / ndf 5.872e+04 / 61
p0 0.01173 ± 1.104e−05
0.035
0.03
0.025
0.02
0.015
0.01

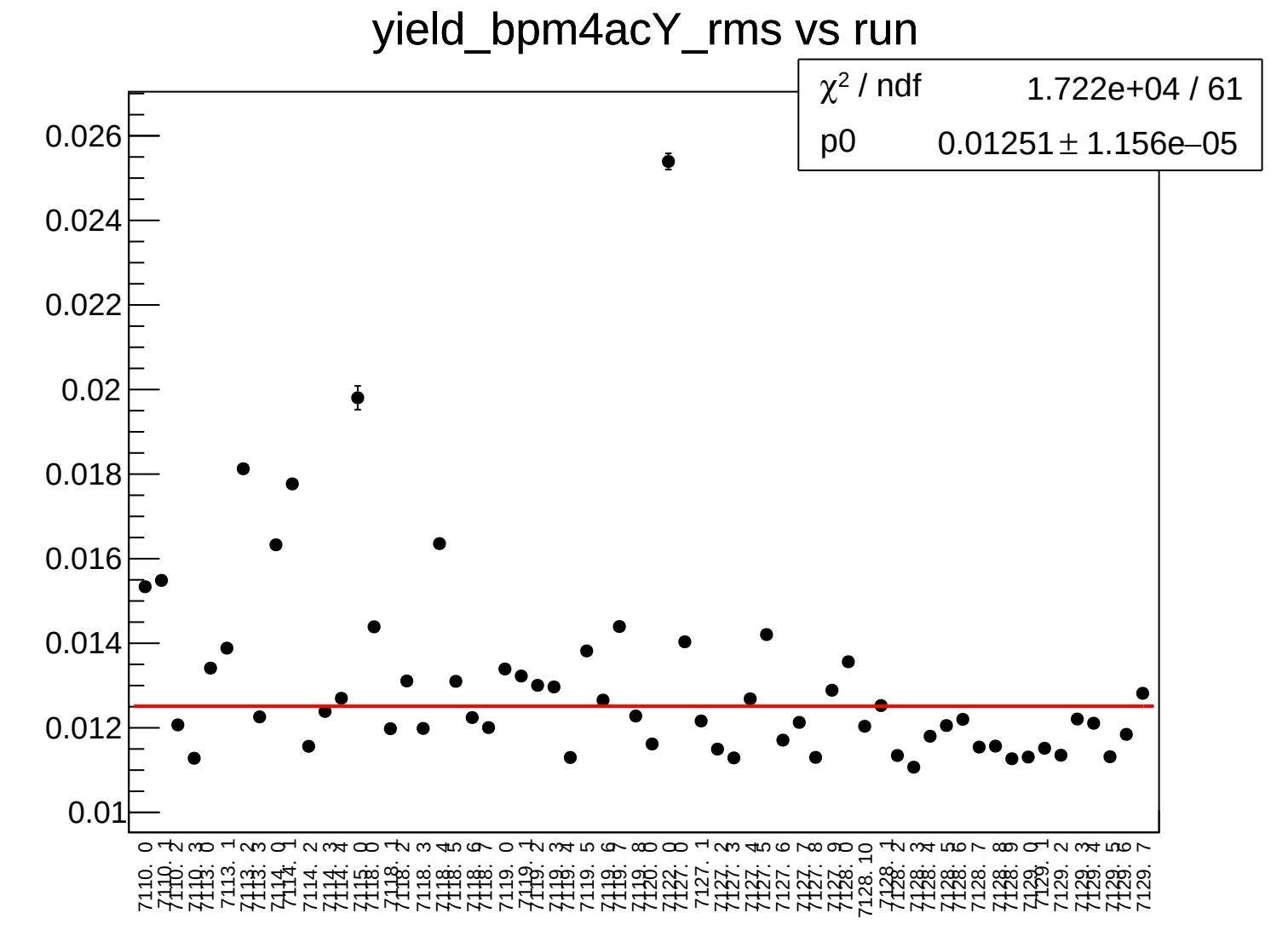

yield_bpm4acX_mean vs run
χ² / ndf 1.923e+05 / 61
p0 −0.8206 ± 2.661e−05
pull
Entries 62
Mean 12.96
Std Dev 20.3

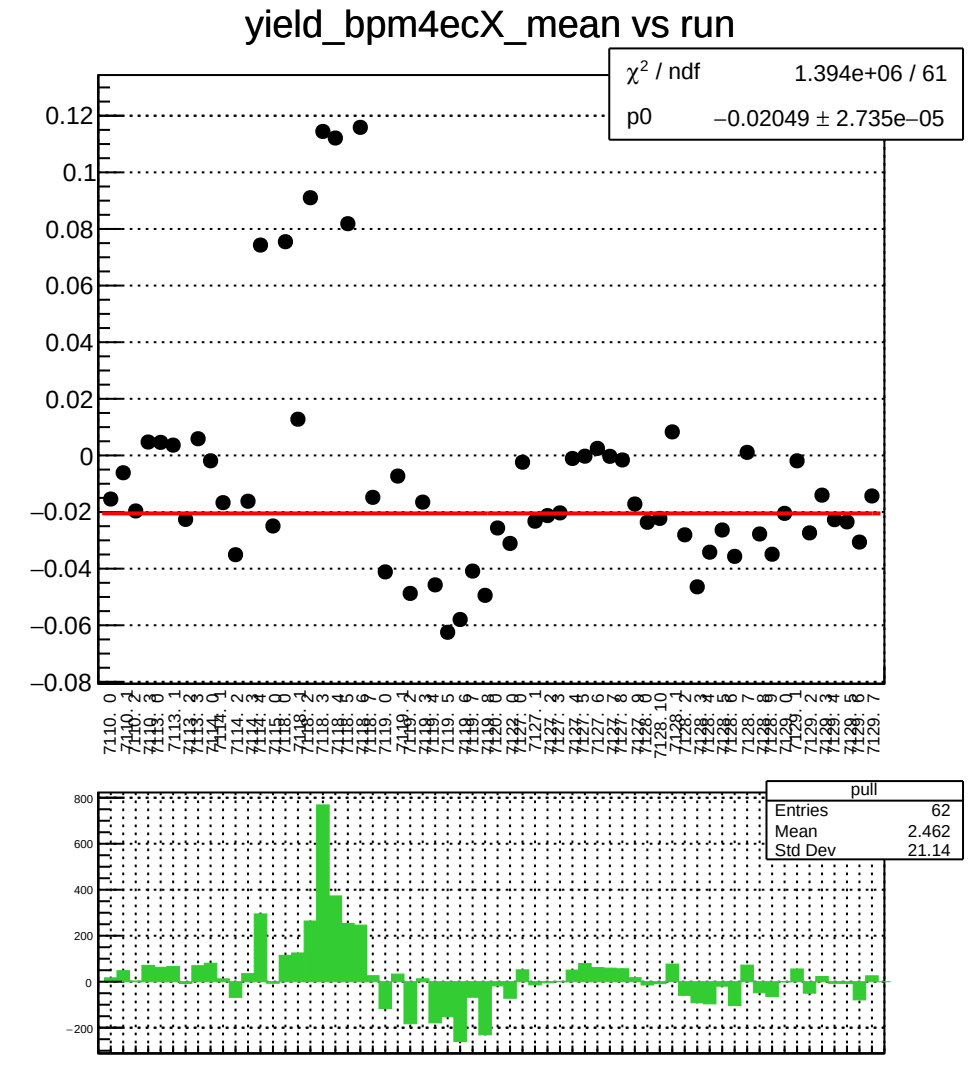

pull1D
Entries 62
Mean 0.5259
Std Dev 5.826

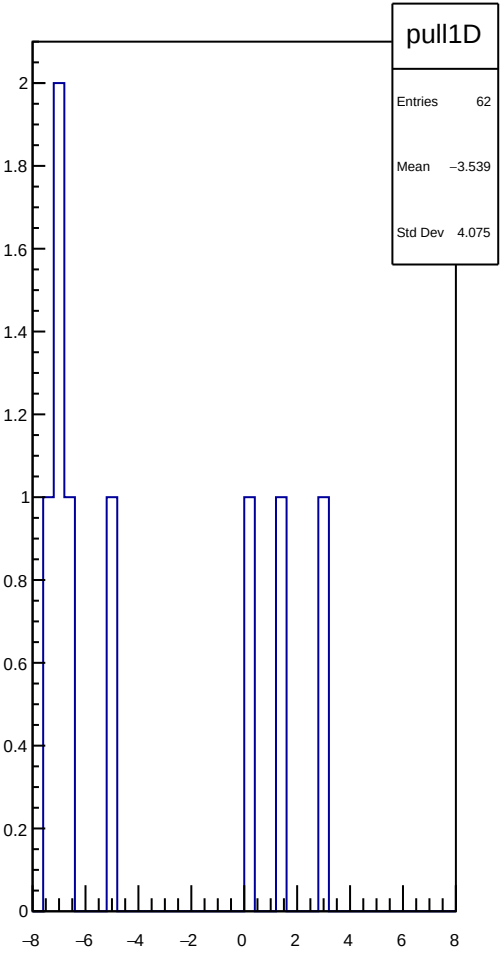

yield_bpm4acX_rms vs run
χ² / ndf 1.792e+05 / 61
p0 0.0189 ± 1.882e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

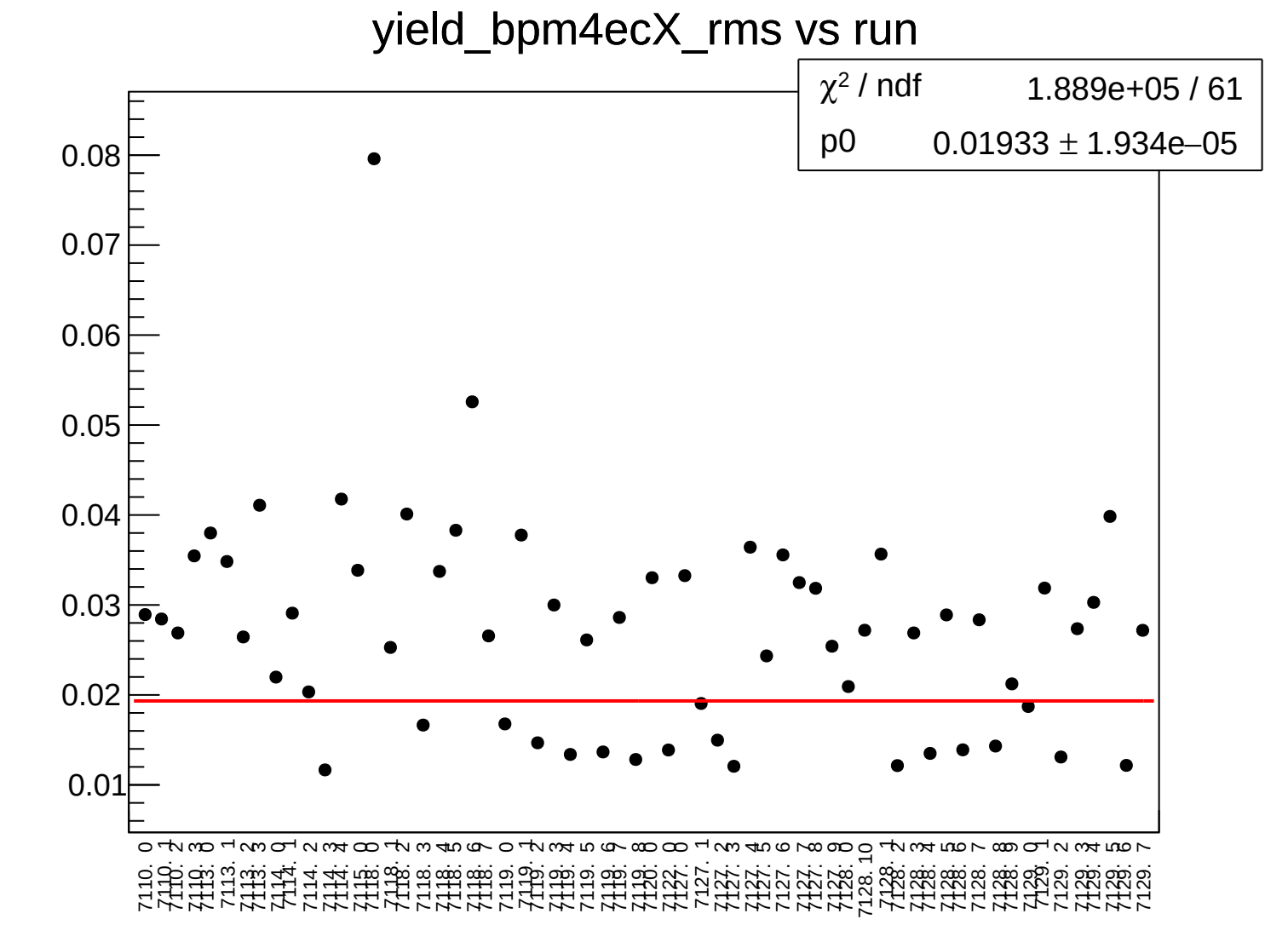

yield_bpm4acY_mean vs run
χ² / ndf 9.881e+04 / 61
p0 0.7277 ± 1.635e−05
0.8
0.78
0.76
0.74
0.72
pull
Entries 62
Mean 99.1
Std Dev 71.28
200
150
100
50
0
−50
−100

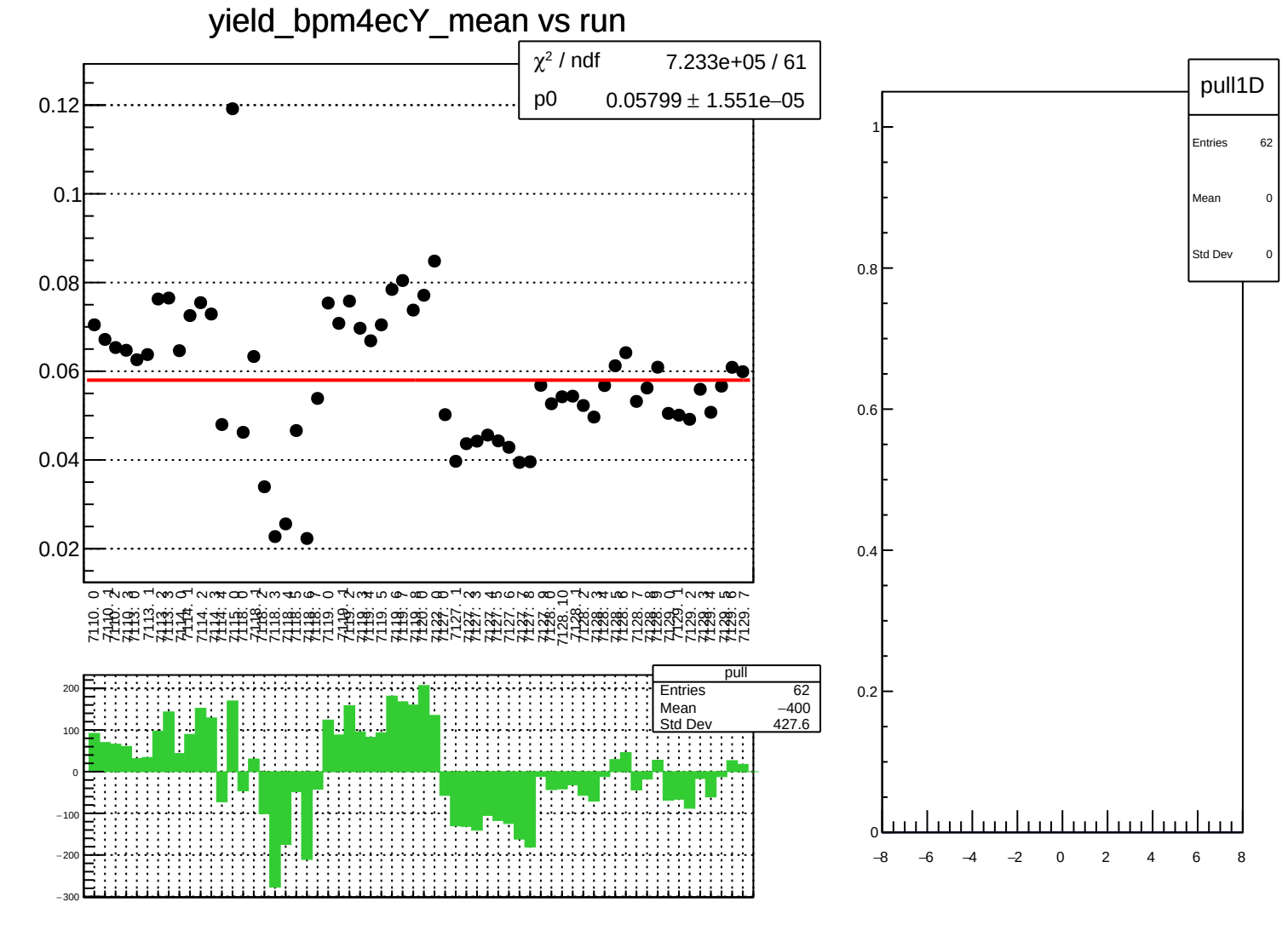

pull1D
Entries 62
Mean −0.267
Std Dev 5.064
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

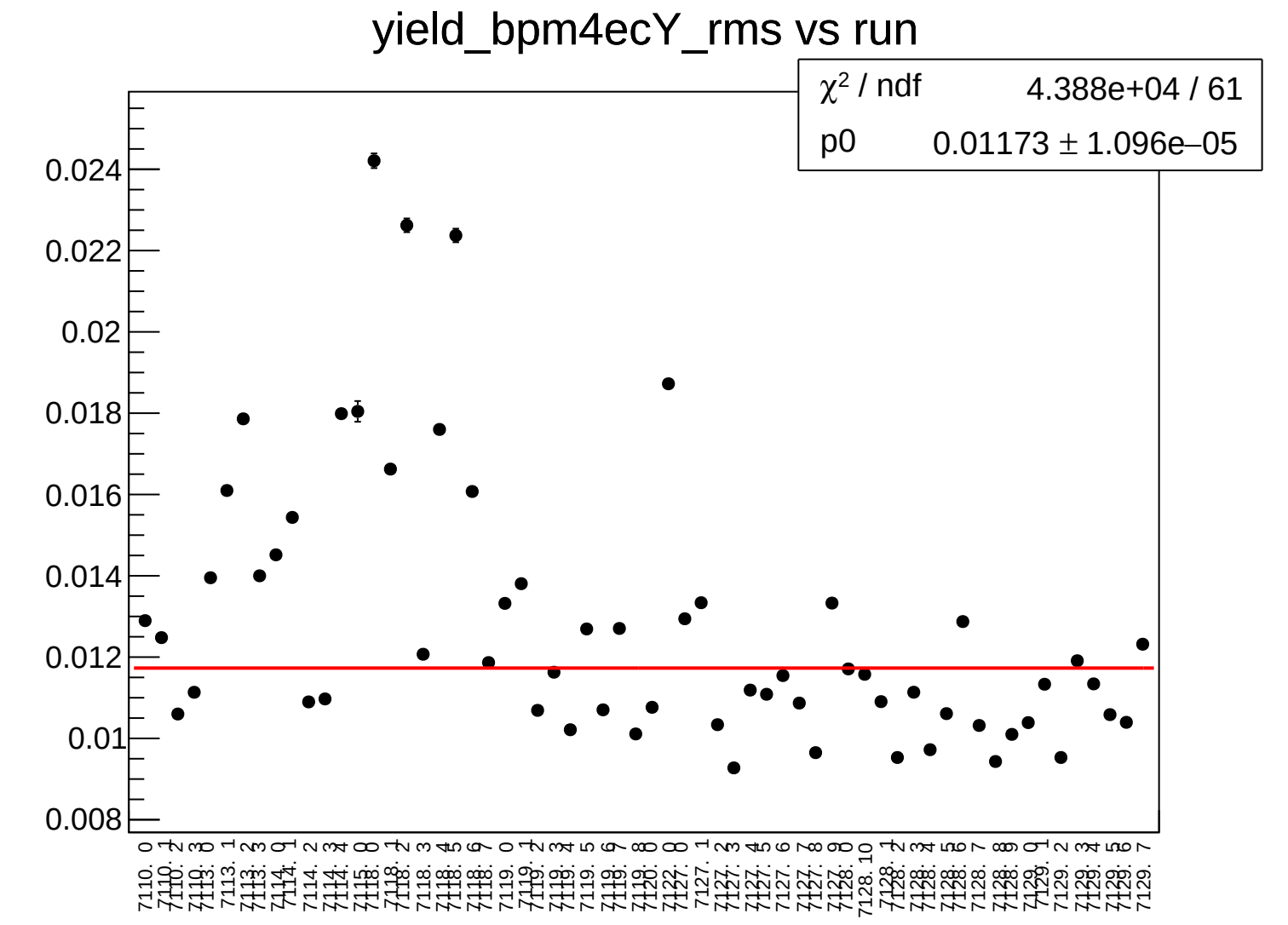

yield_bpm4acY_rms vs run
χ² / ndf 1.722e+04 / 61
p0 0.01251 ± 1.156e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

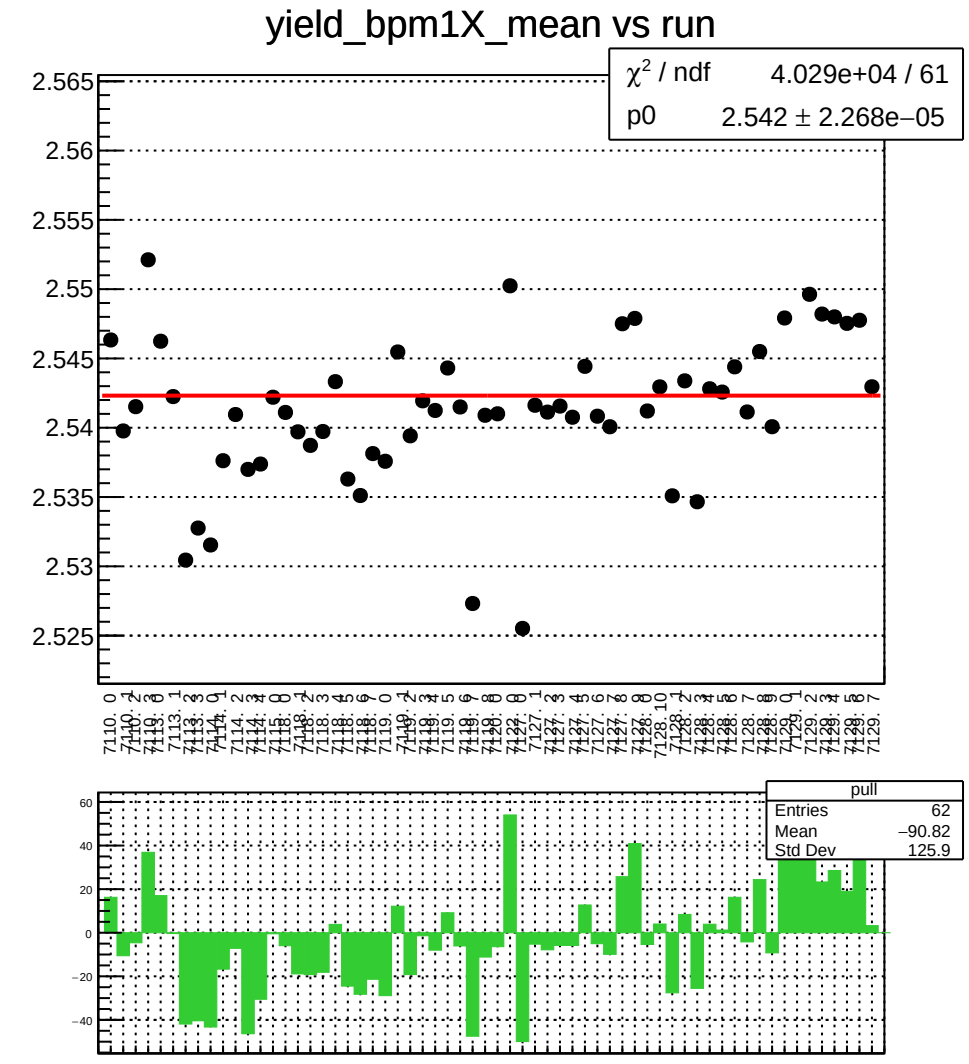

yield_bpm4ecX_mean vs run
χ² / ndf 1.394e+06 / 61
p0 −0.02049 ± 2.735e−05
pull
Entries 62
Mean 2.462
Std Dev 21.14

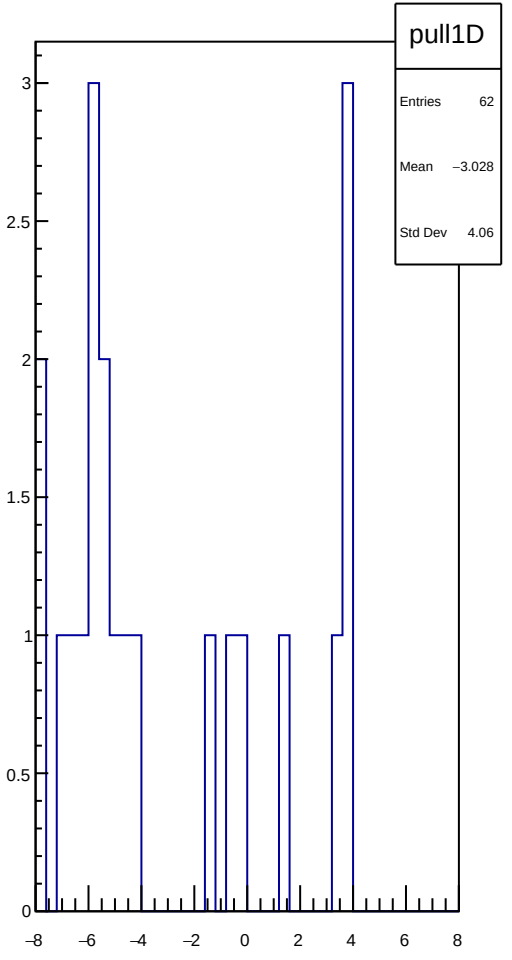

pull1D
Entries 62
Mean −3.539
Std Dev 4.075

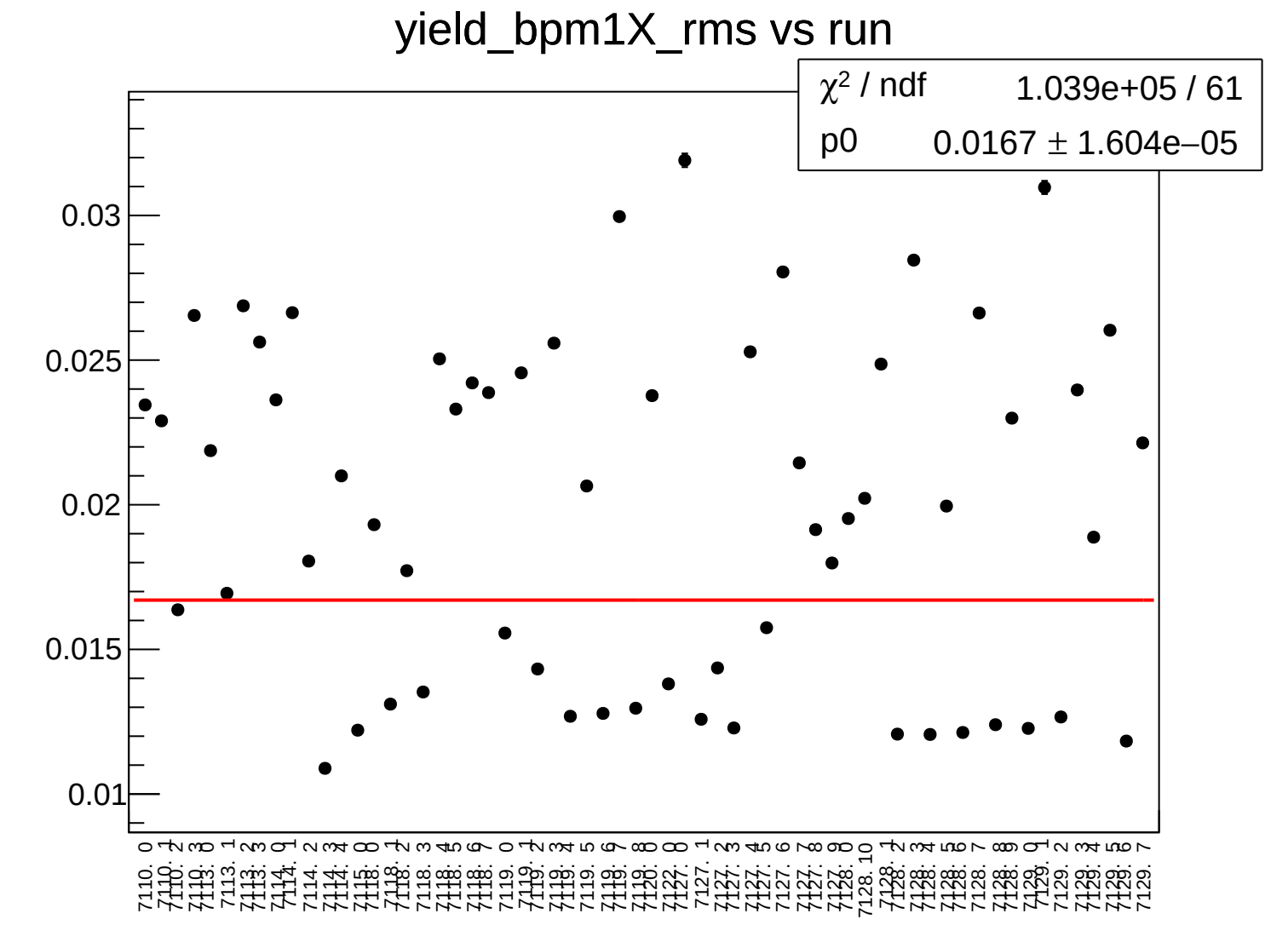

yield_bpm4ecX_rms vs run
χ² / ndf 1.889e+05 / 61
p0 0.01933 ± 1.934e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

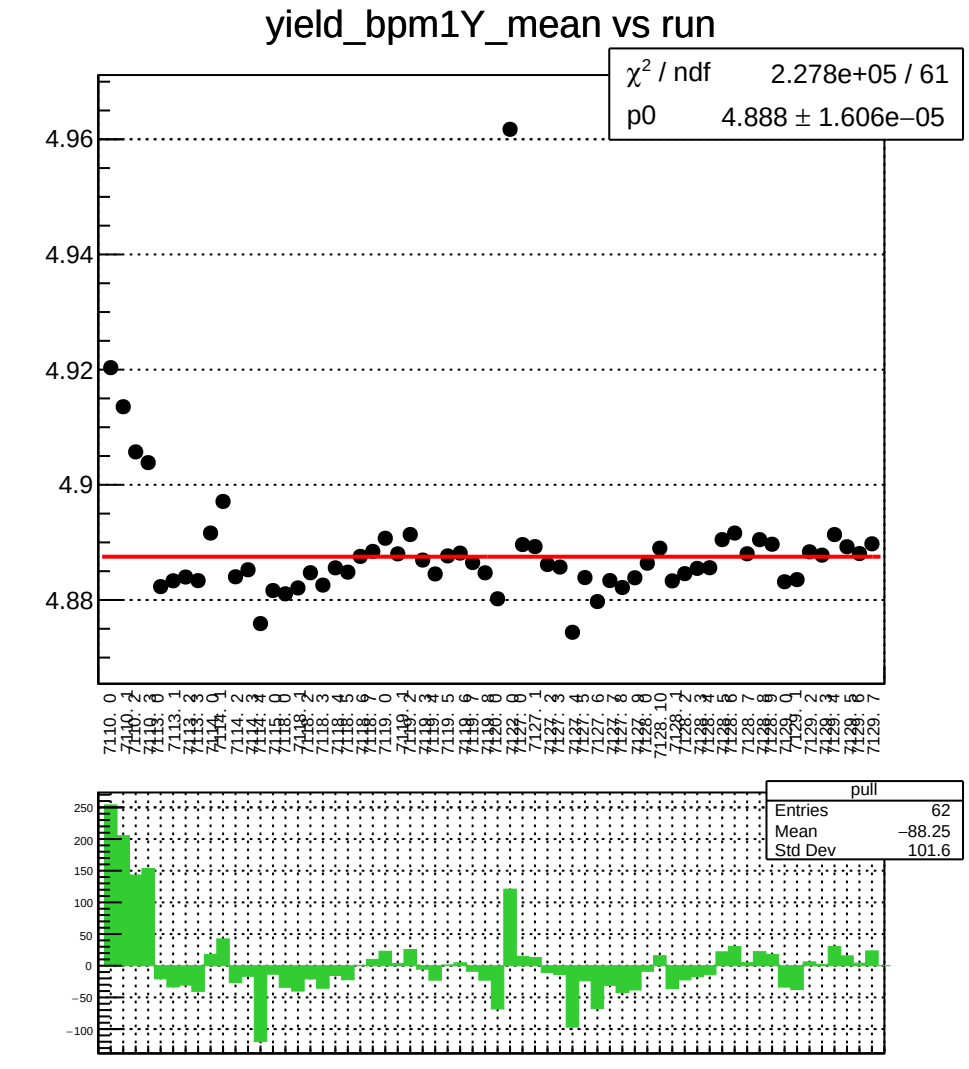

yield_bpm4ecY_mean vs run
χ² / ndf 7.233e+05 / 61
p0 0.05799 ± 1.551e−05
0.12
0.1
0.08
0.06
0.04
0.02
pull
Entries 62
Mean −400
Std Dev 427.6
200
100
0
−100
−200
−300
pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

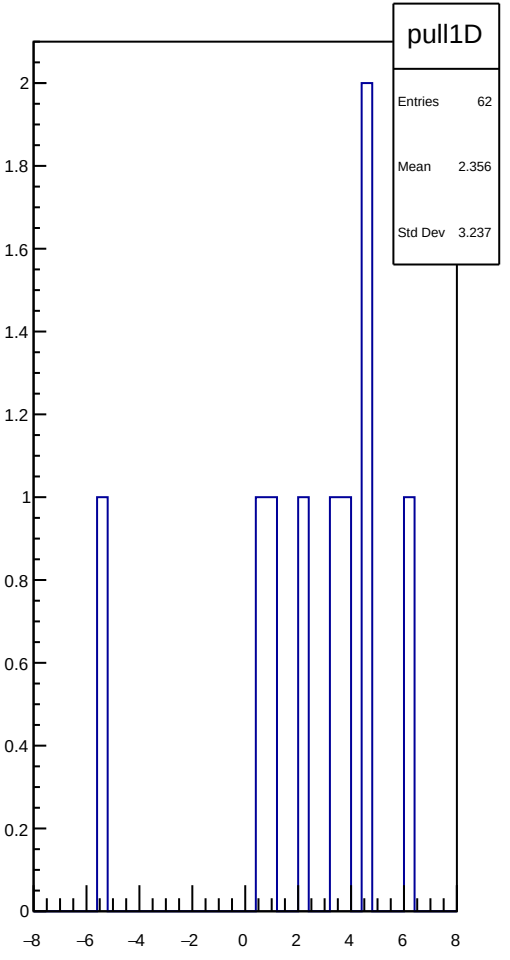

yield_bpm4ecY_rms vs run
χ² / ndf 4.388e+04 / 61
p0 0.01173 ± 1.096e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

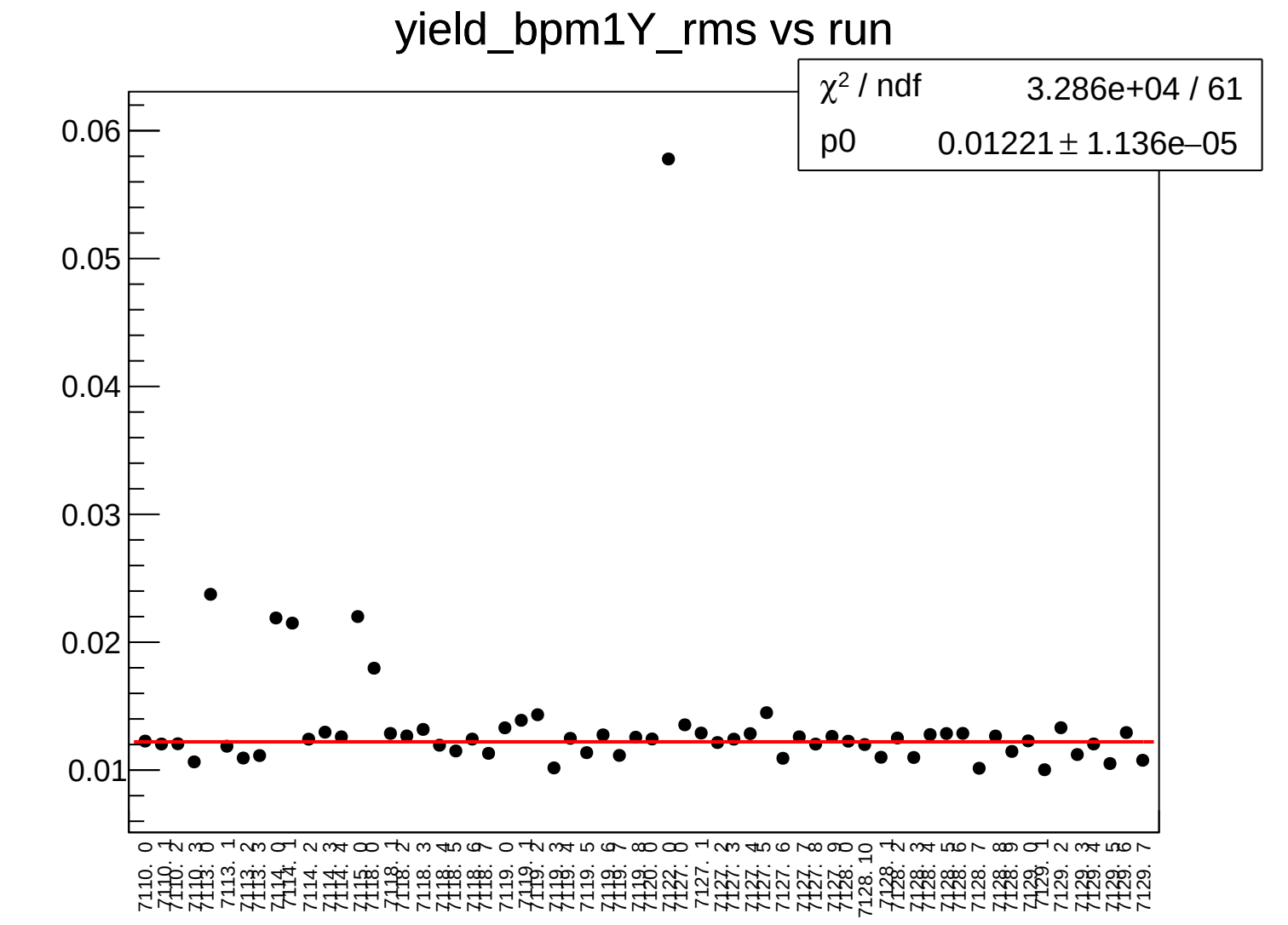

yield_bpm1X_mean vs run
χ² / ndf 4.029e+04 / 61
p0 2.542 ± 2.268e−05
2.565
2.56
2.555
2.55
2.545
2.54
2.535
2.53
2.525
pull
Entries 62
Mean −90.82
Std Dev 125.9
60
40
20
0
−20
−40

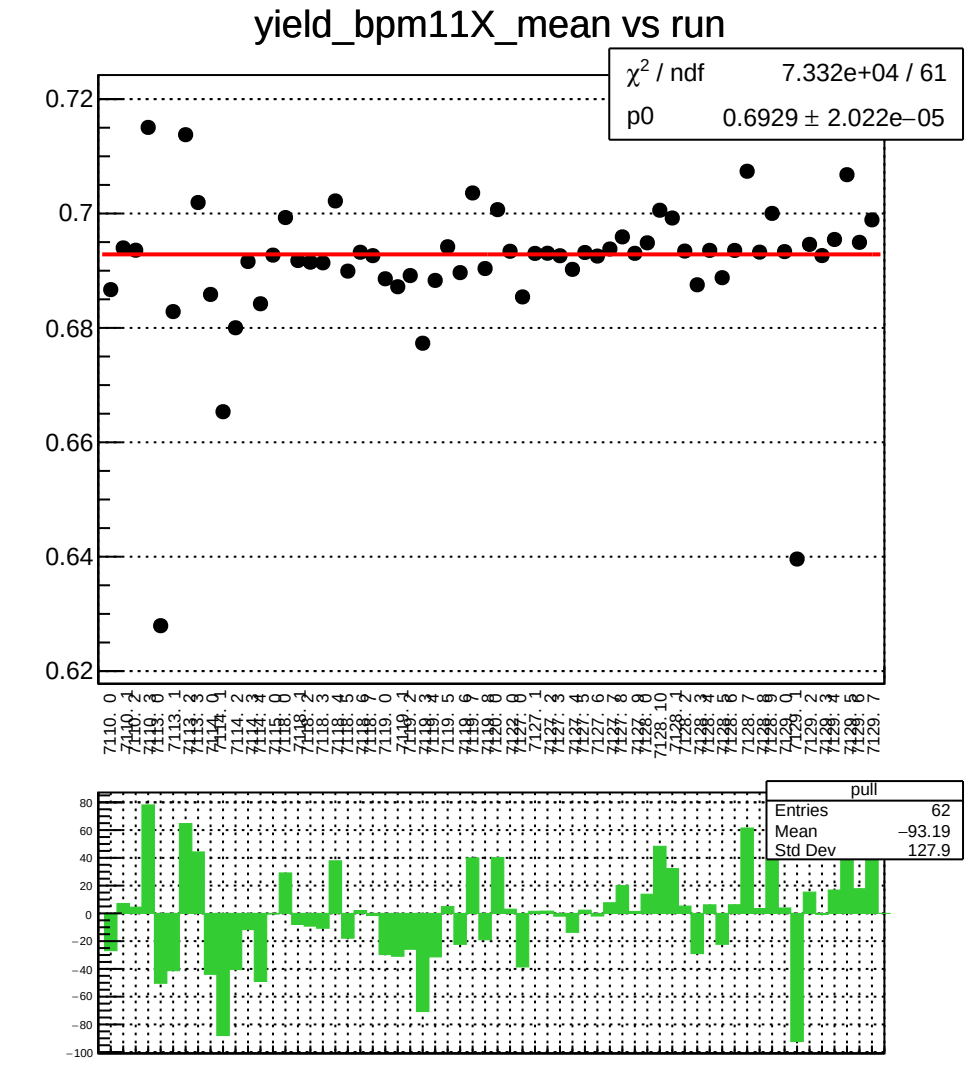

pull1D
Entries 62
Mean −3.028
Std Dev 4.06
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

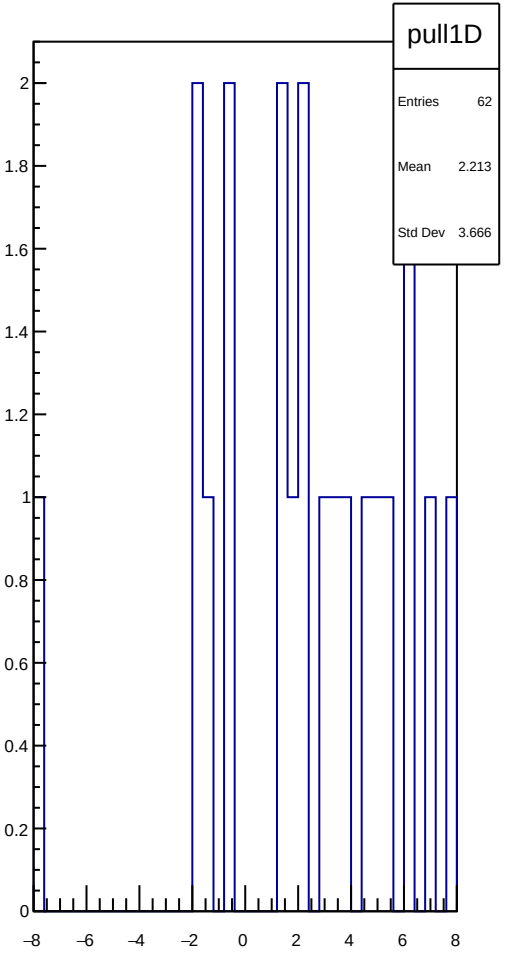

yield_bpm1X_rms vs run
χ² / ndf 1.039e+05 / 61
p0 0.0167 ± 1.604e−05
0.03
0.025
0.02
0.015
0.01

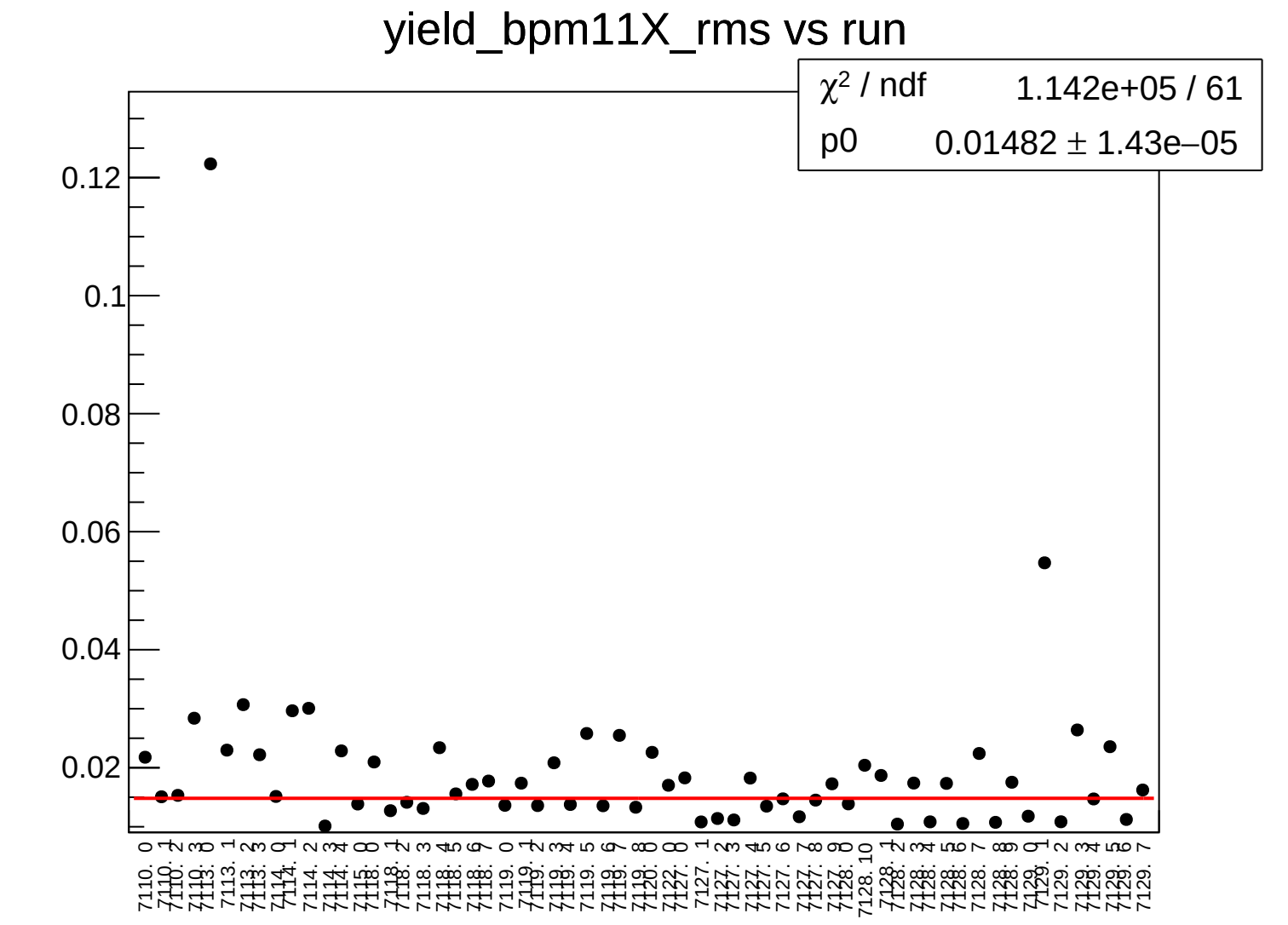

yield_bpm1Y_mean vs run
χ² / ndf 2.278e+05 / 61
p0 4.888 ± 1.606e−05
4.96
4.94
4.92
4.9
4.88
pull
Entries 62
Mean −88.25
Std Dev 101.6
250
200
150
100
50
0
−50
−100

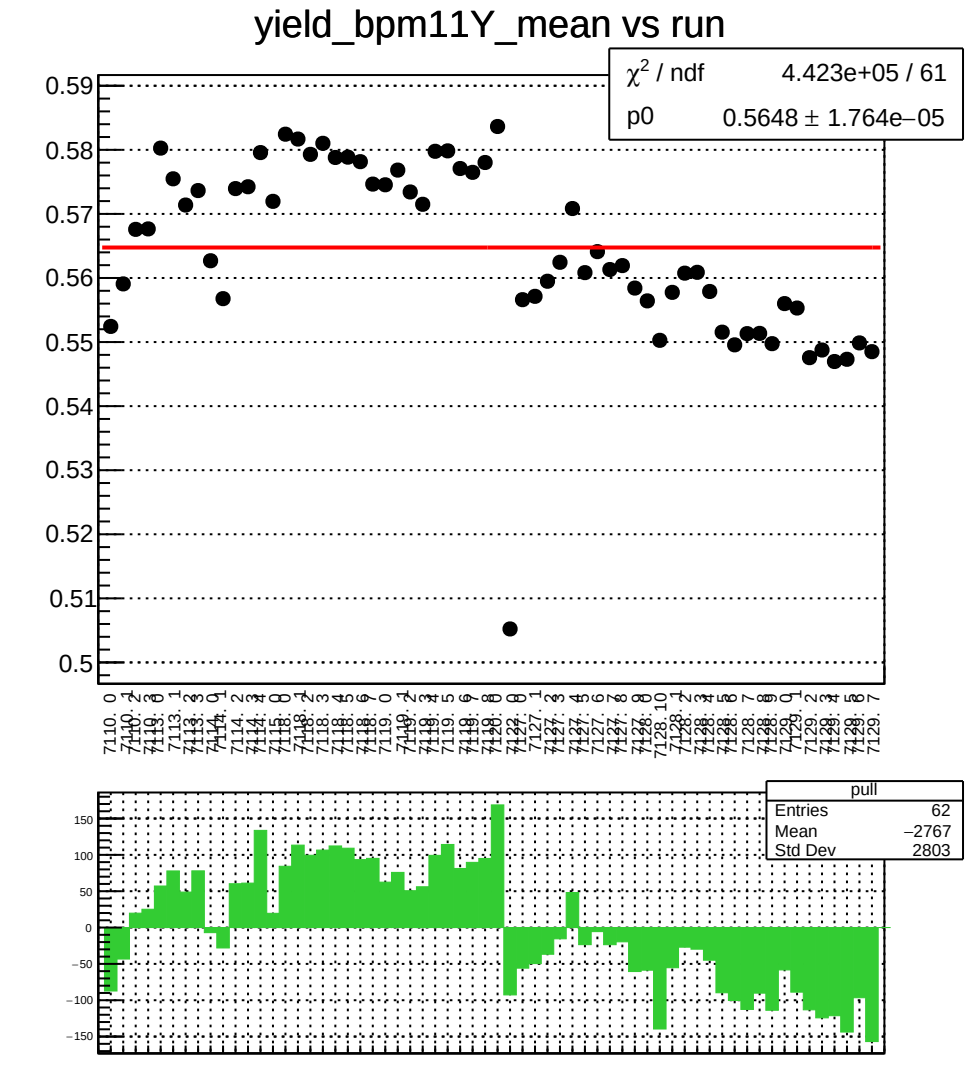

pull1D
Entries 62
Mean 2.356
Std Dev 3.237
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

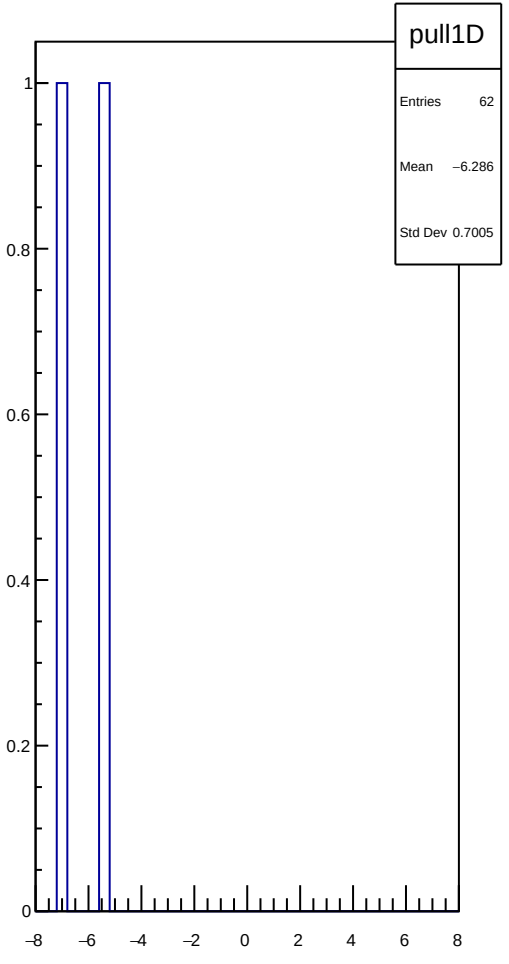

yield_bpm1Y_rms vs run
χ² / ndf 3.286e+04 / 61
p0 0.01221 ± 1.136e–05
0.06
0.05
0.04
0.03
0.02
0.01

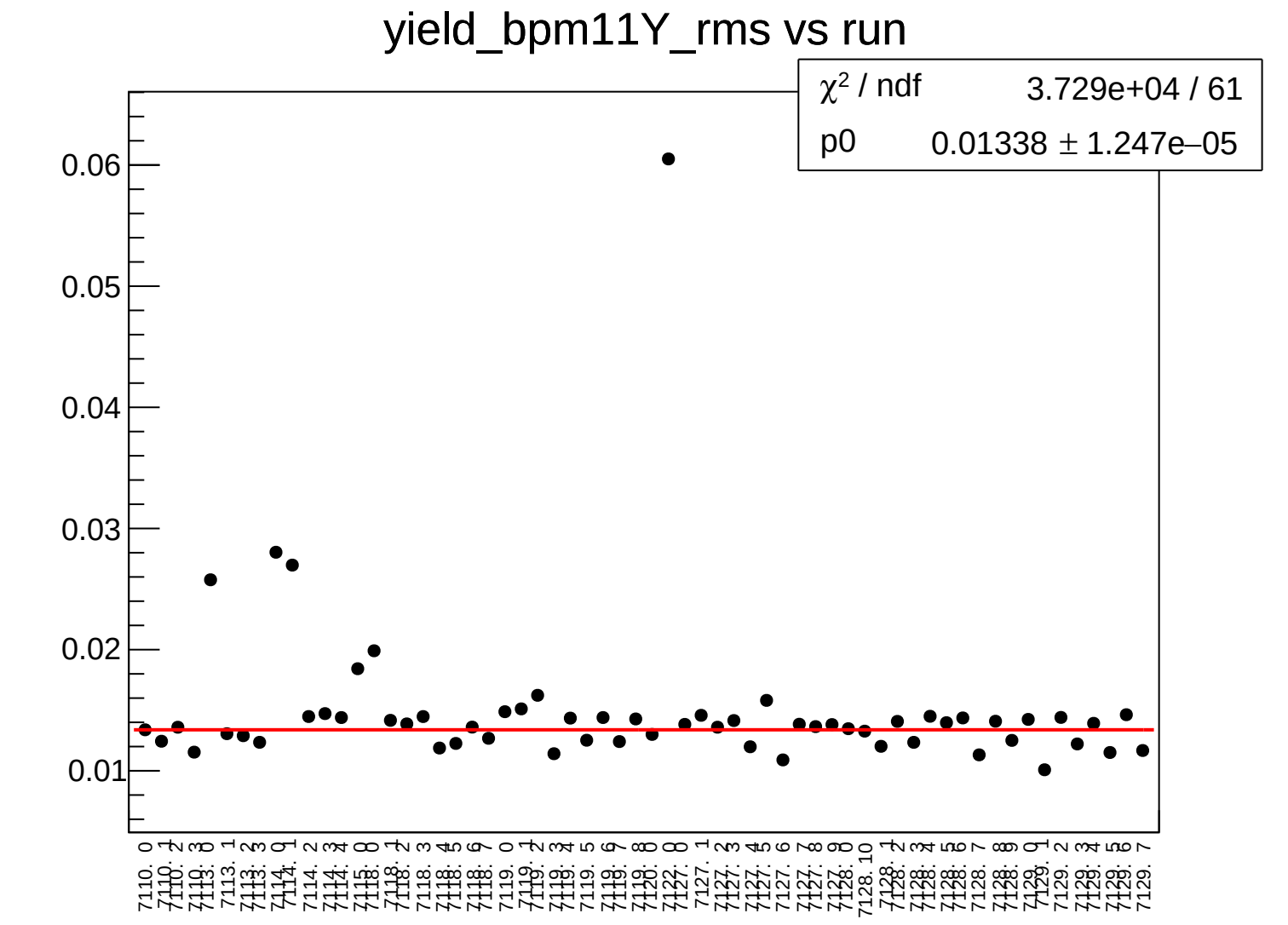

yield_bpm11X_mean vs run
χ² / ndf 7.332e+04 / 61
p0 0.6929 ± 2.022e−05
0.72
0.7
0.68
0.66
0.64
0.62
pull
Entries 62
Mean −93.19
Std Dev 127.9
80
60
40
20
0
−20
−40
−60
−80
−100

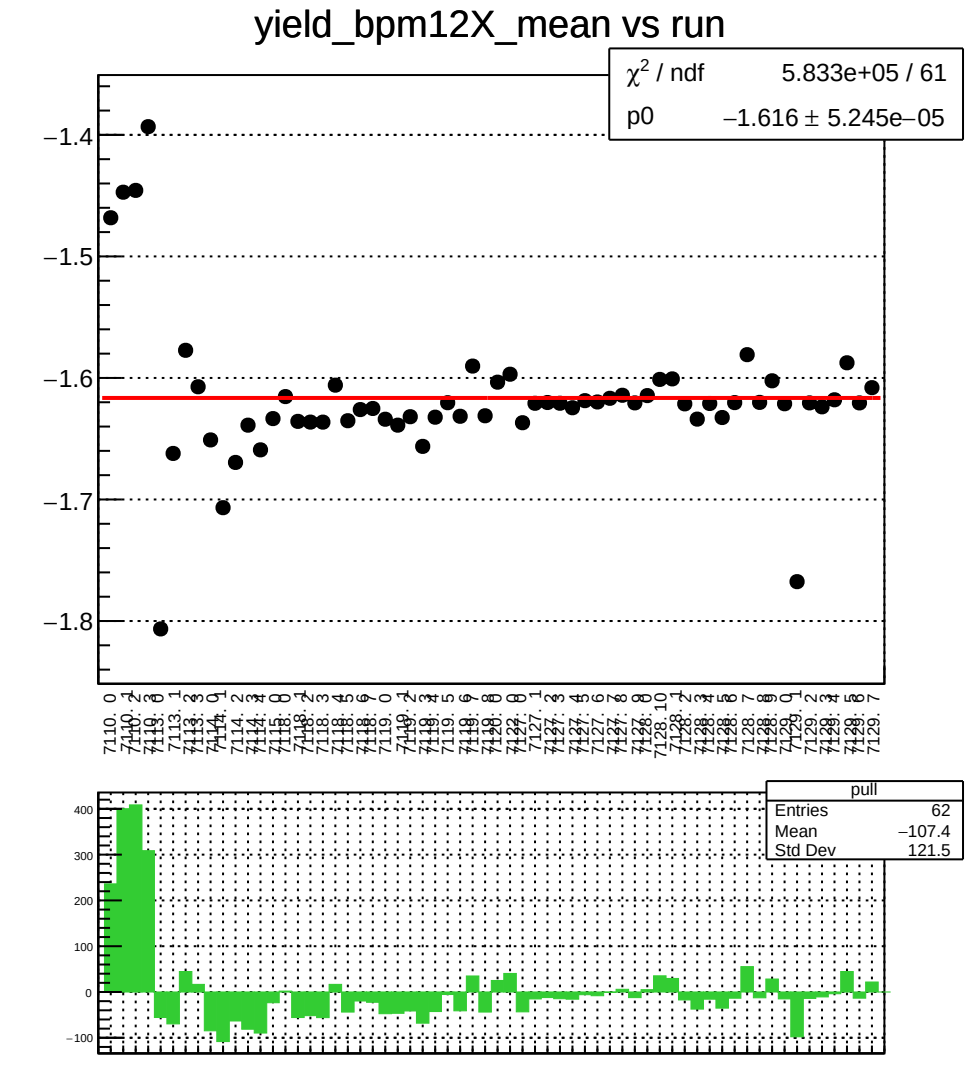

pull1D
Entries 62
Mean 2.213
Std Dev 3.666
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

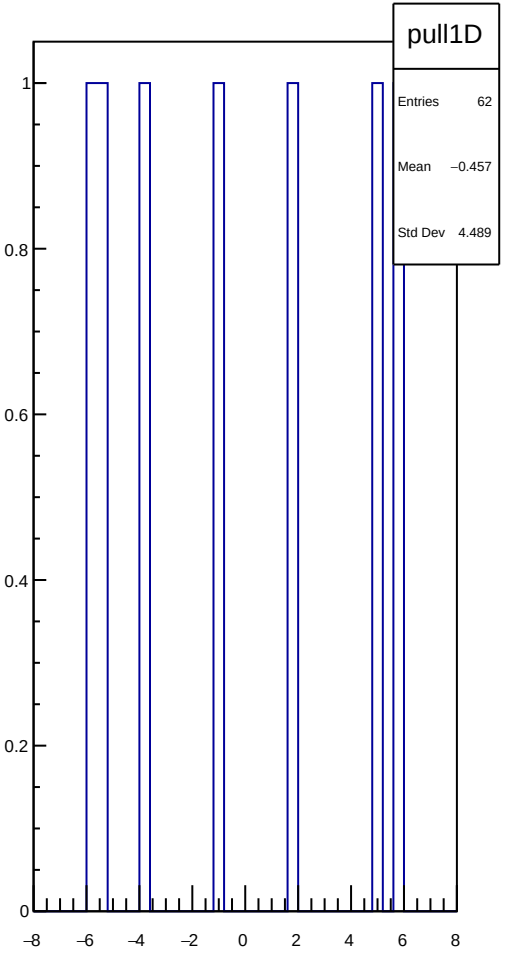

yield_bpm11X_rms vs run
χ² / ndf 1.142e+05 / 61
p0 0.01482 ± 1.43e−05
0.12
0.1
0.08
0.06
0.04
0.02

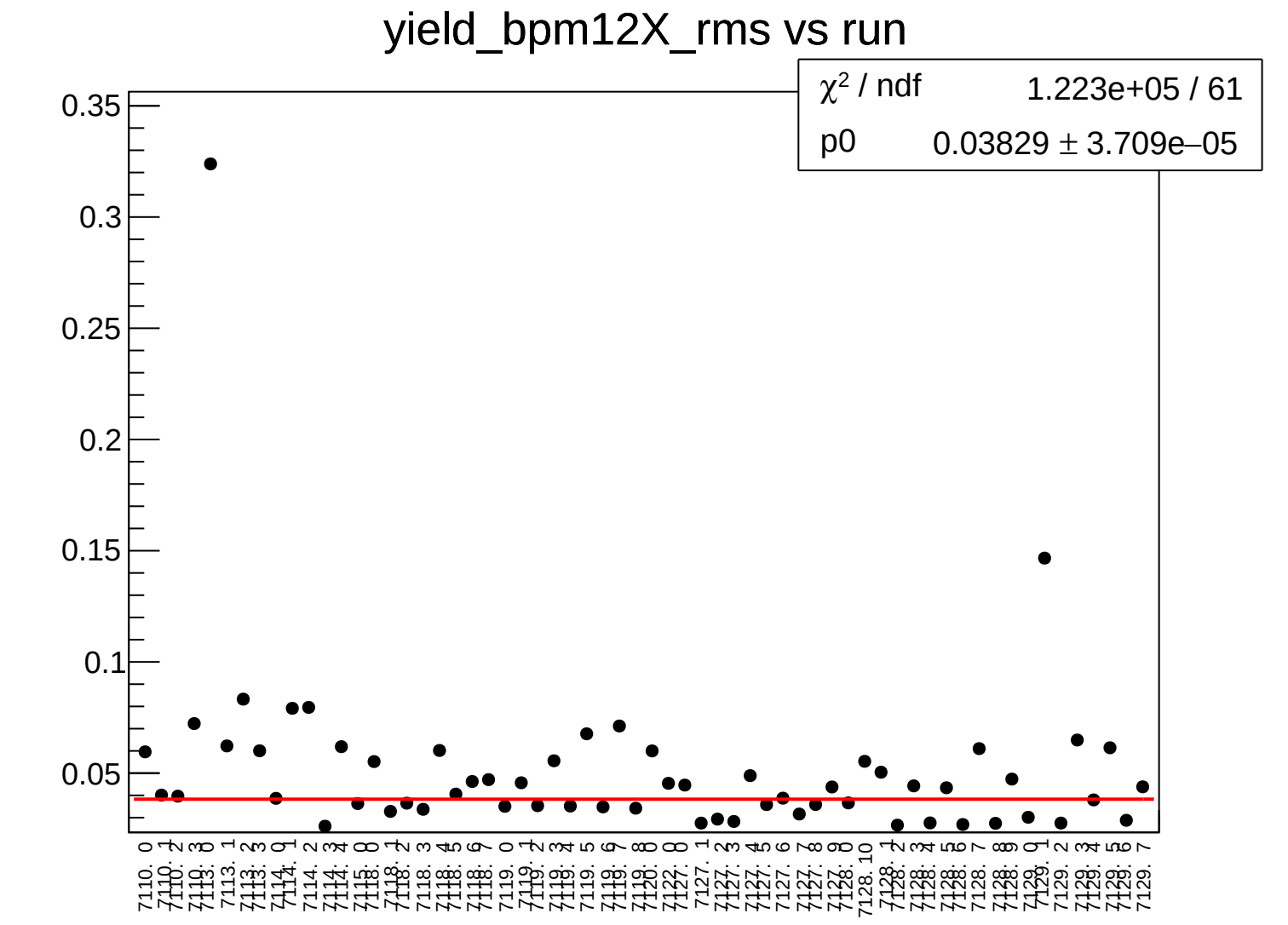

yield_bpm11Y_mean vs run
χ² / ndf 4.423e+05 / 61
p0 0.5648 ± 1.764e−05
0.59
0.58
0.57
0.56
0.55
0.54
0.53
0.52
0.51
0.5
pull
Entries 62
Mean −2767
Std Dev 2803
150
100
50
0
−50
−100
−150

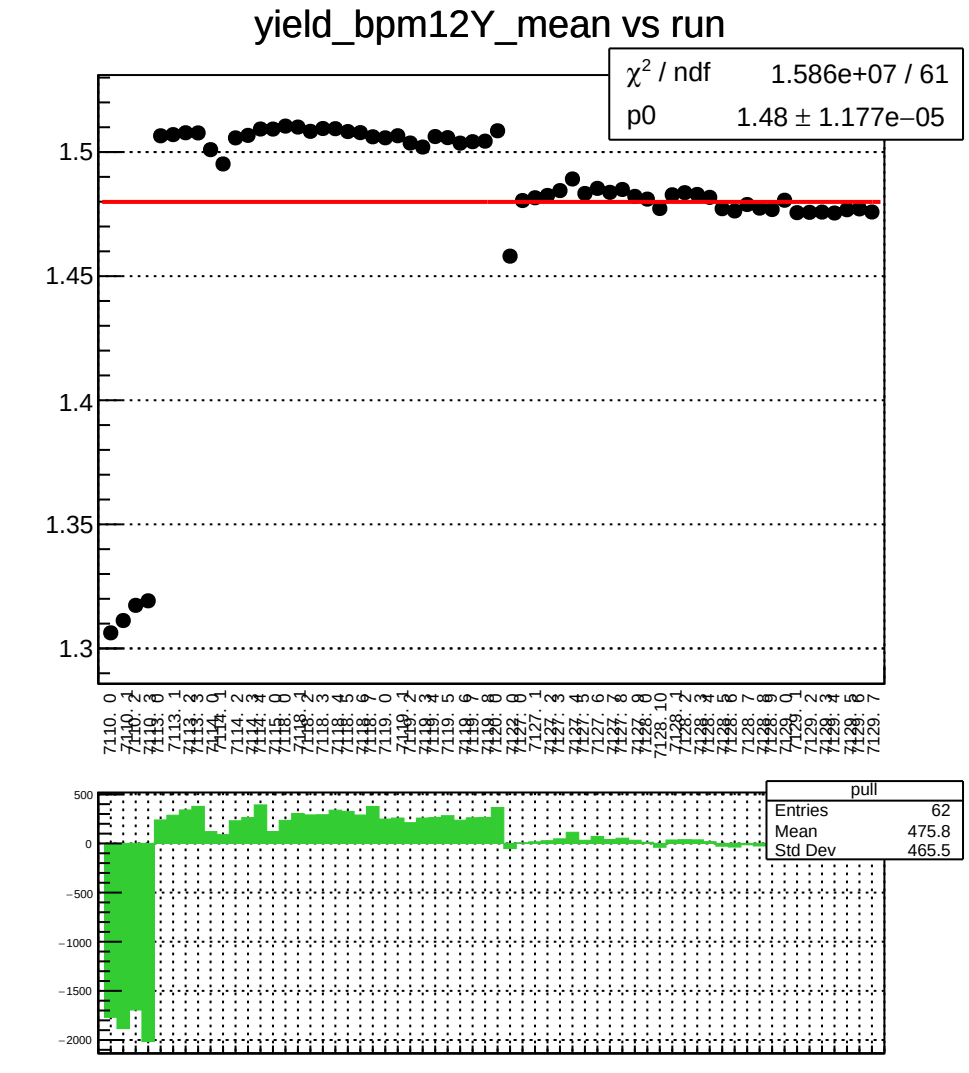

pull1D
Entries 62
Mean −6.286
Std Dev 0.7005
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

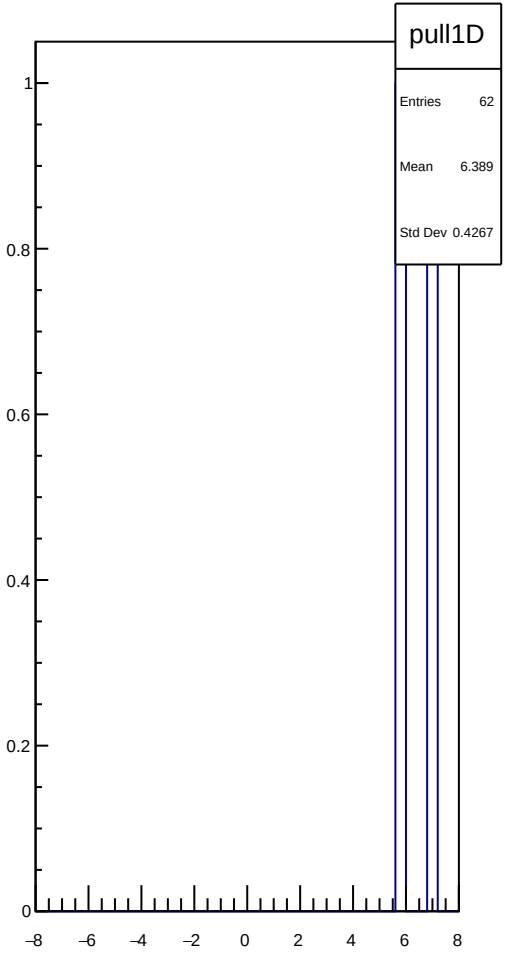

yield_bpm11Y_rms vs run
χ² / ndf 3.729e+04 / 61
p0 0.01338 ± 1.247e–05
0.06
0.05
0.04
0.03
0.02
0.01

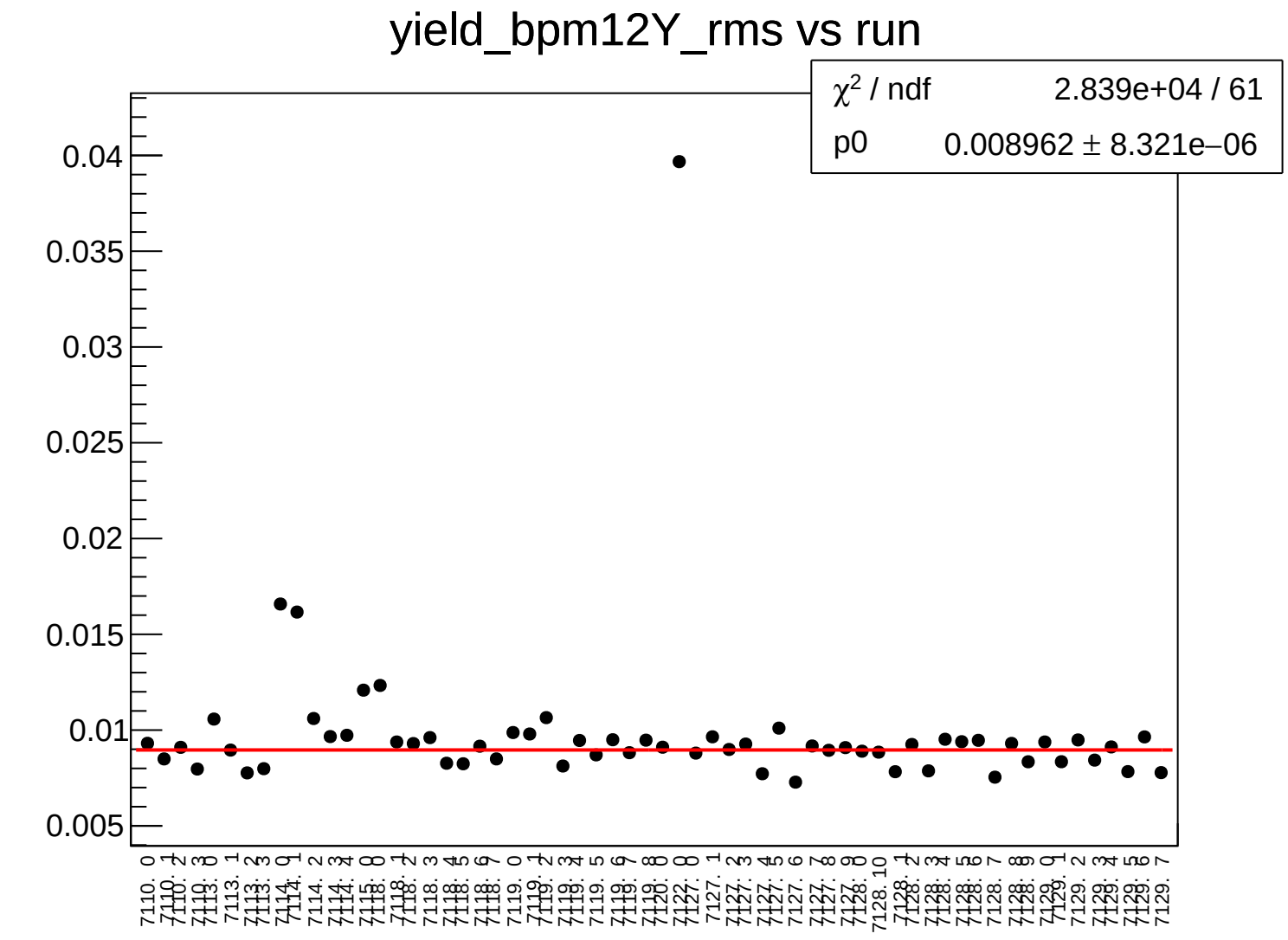

yield_bpm12X_mean vs run
χ² / ndf 5.833e+05 / 61
p0 −1.616 ± 5.245e−05
−1.4
−1.5
−1.6
−1.7
−1.8
pull
Entries 62
Mean −107.4
Std Dev 121.5
400
300
200
100
0
−100

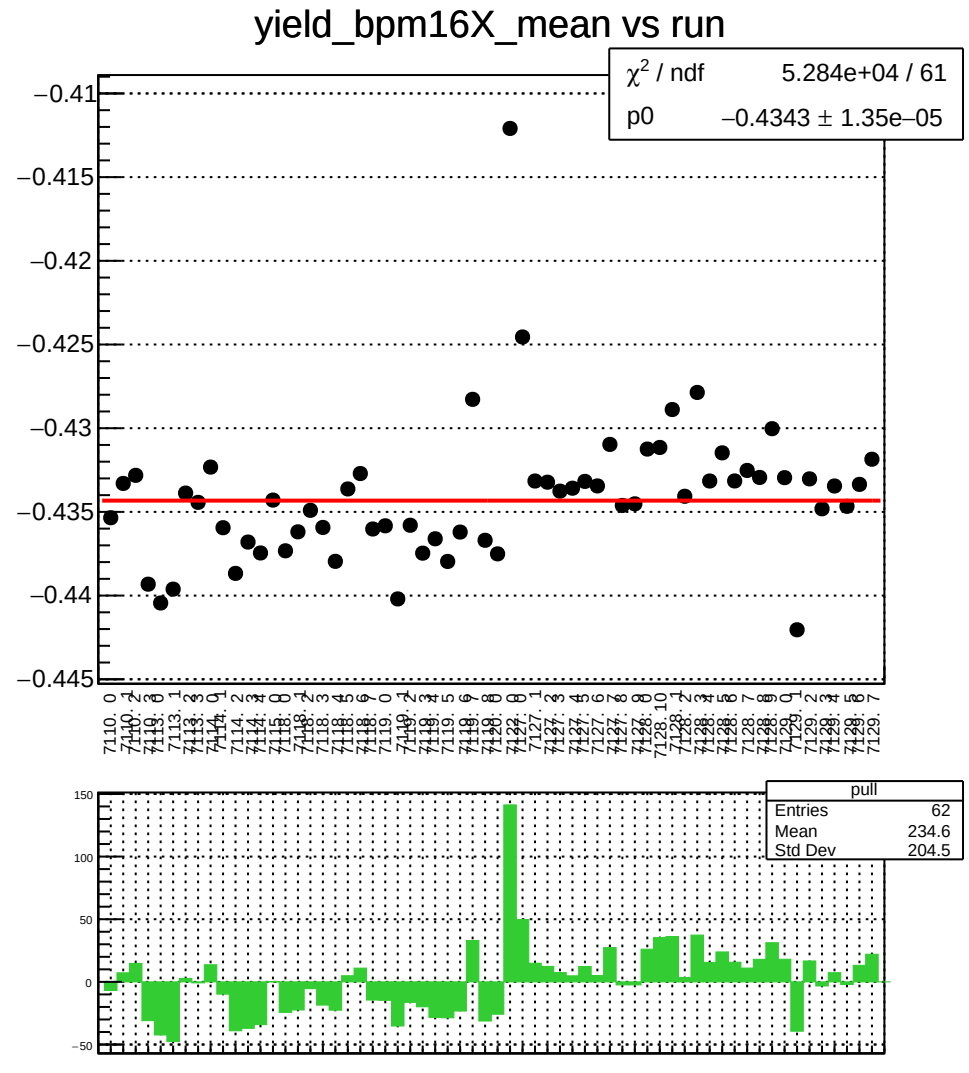

pull1D
Entries 62
Mean −0.457
Std Dev 4.489
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

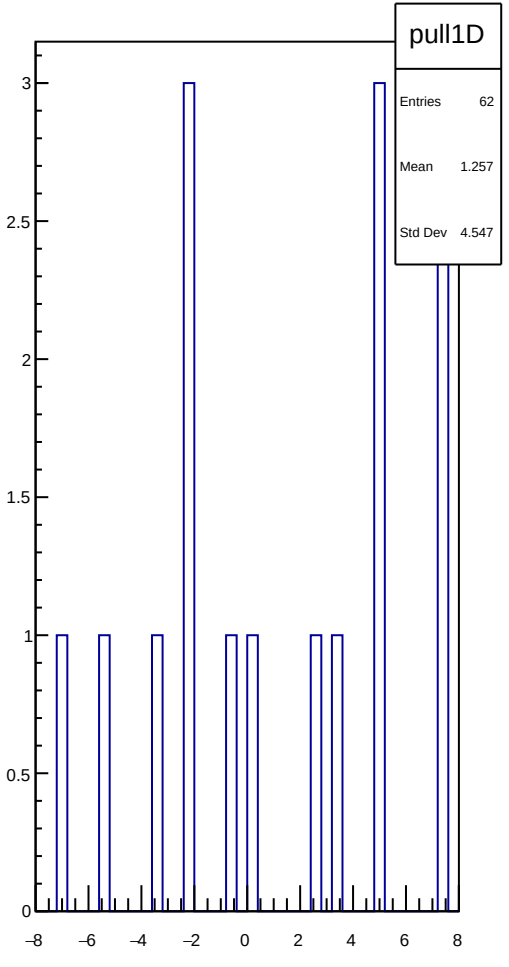

yield_bpm12X_rms vs run
χ² / ndf 1.223e+05 / 61
p0 0.03829 ± 3.709e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

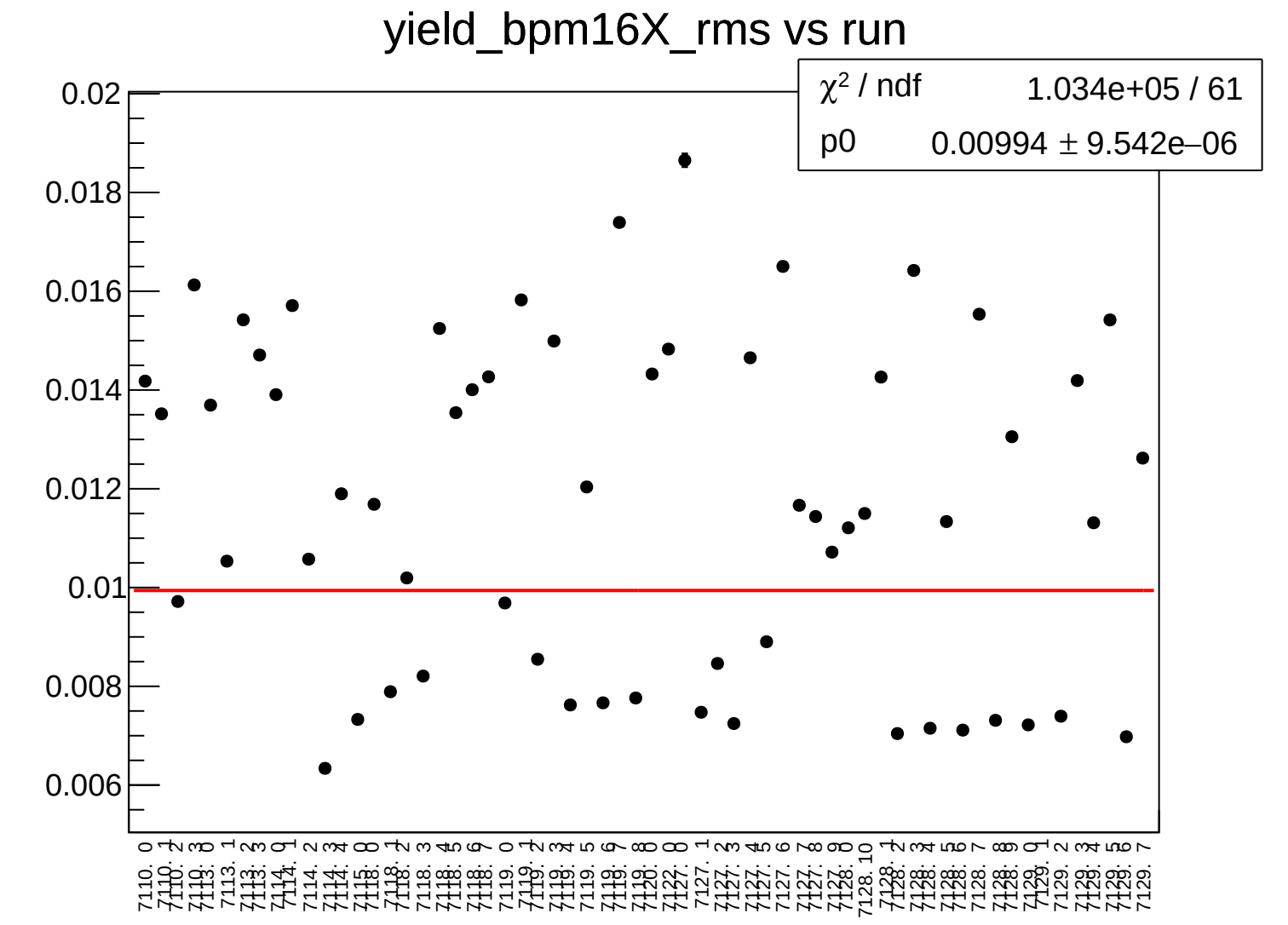

yield_bpm12Y_mean vs run
χ² / ndf 1.586e+07 / 61
p0 1.48 ± 1.177e−05
1.5
1.45
1.4
1.35
1.3
pull
Entries 62
Mean 475.8
Std Dev 465.5
500
0
−500
−1000
−1500
−2000

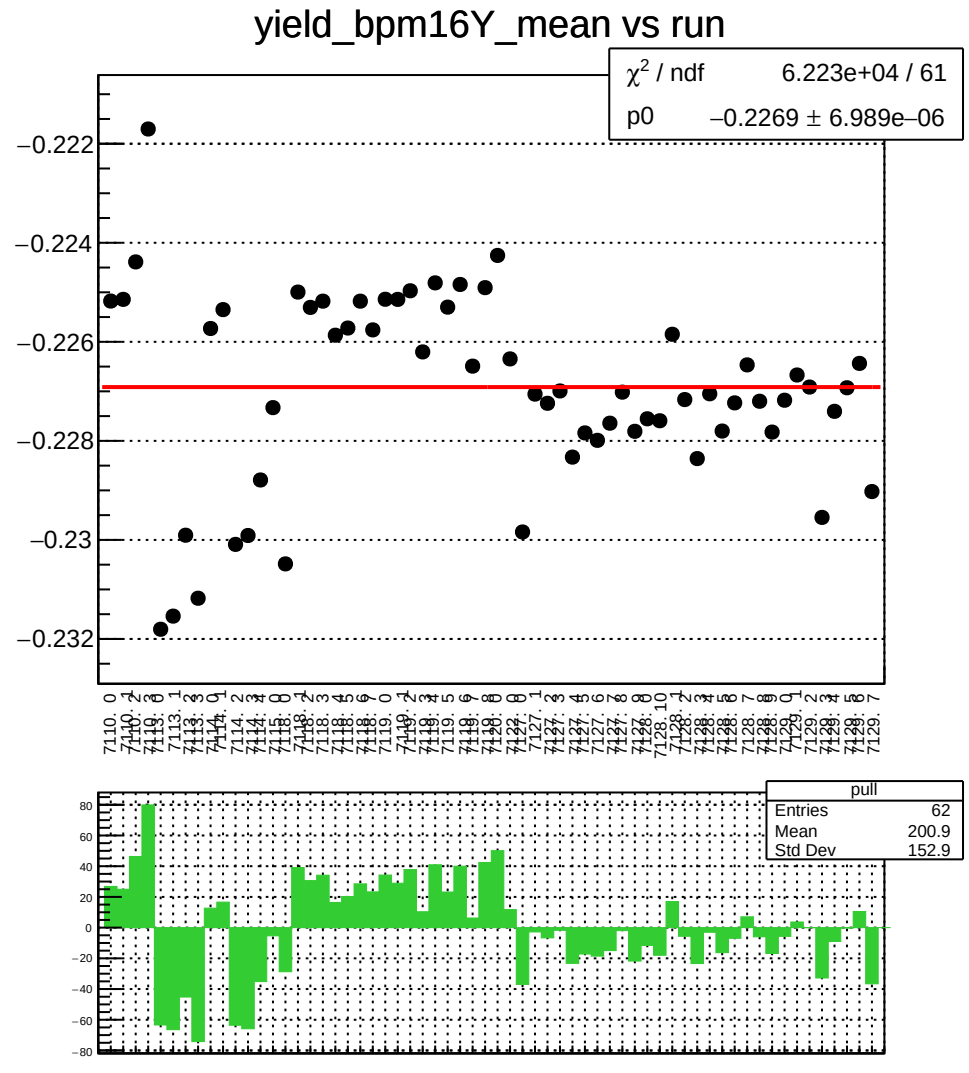

pull1D
Entries 62
Mean 6.389
Std Dev 0.4267
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

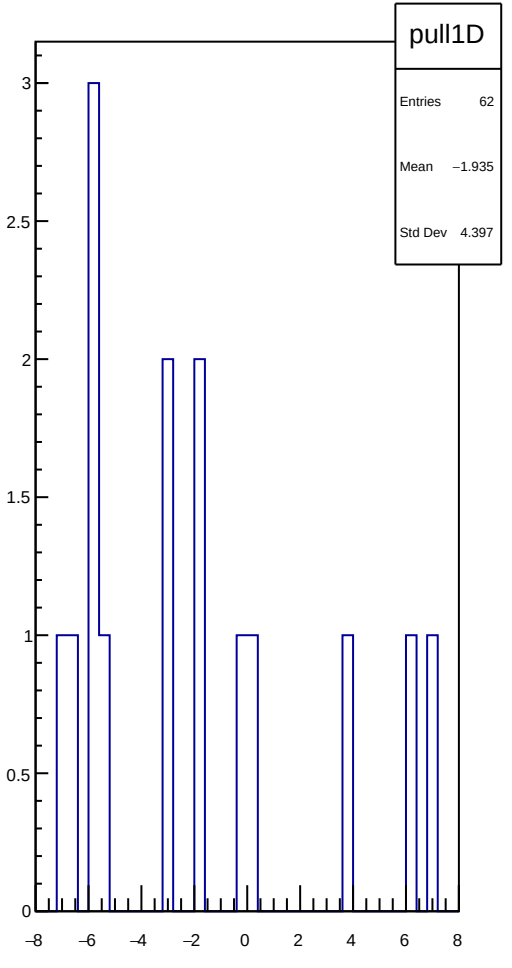

yield_bpm12Y_rms vs run
χ² / ndf 2.839e+04 / 61
p0 0.008962 ± 8.321e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

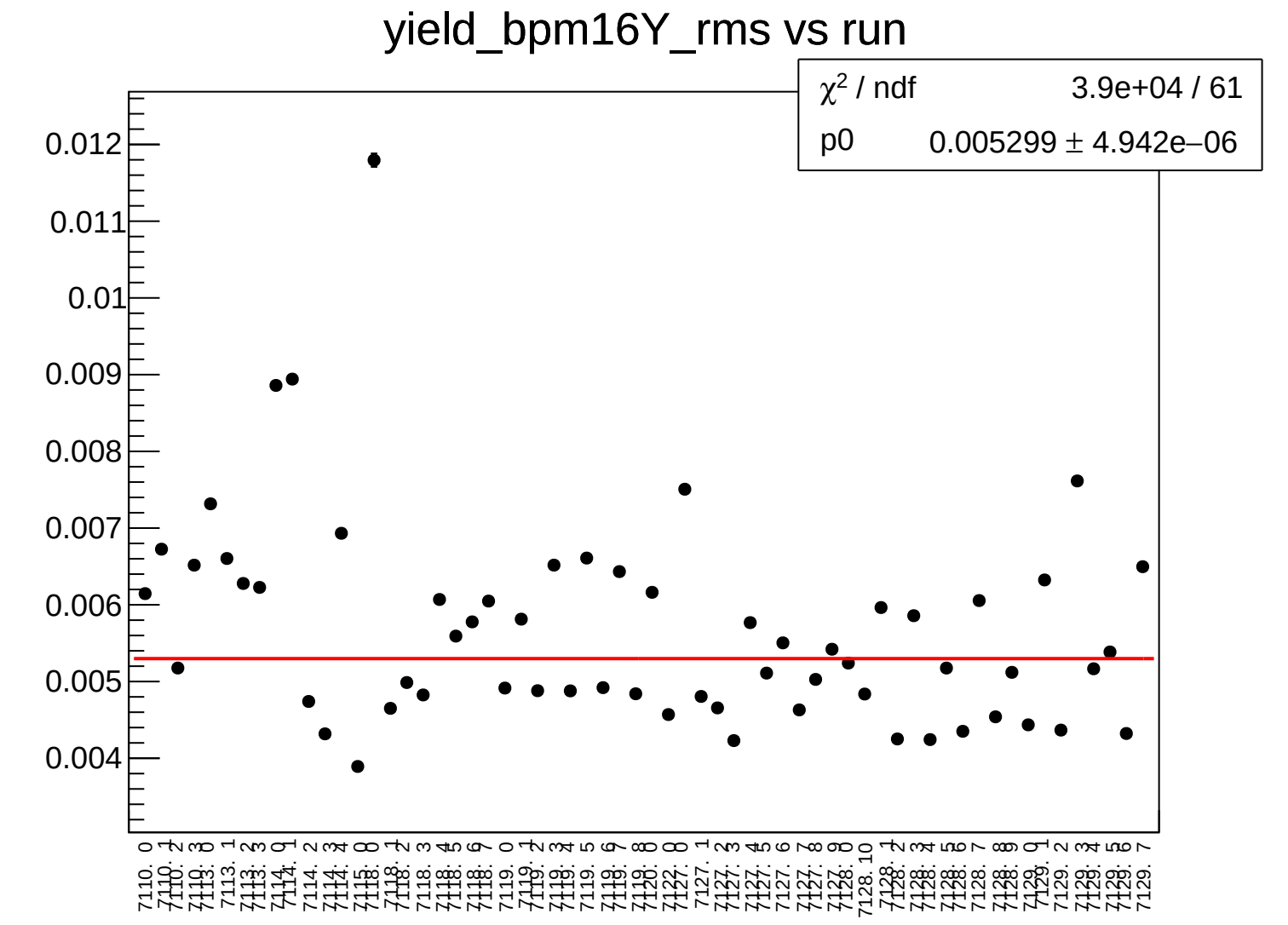

yield_bpm16X_mean vs run
χ² / ndf 5.284e+04 / 61
p0 −0.4343 ± 1.35e−05
pull
Entries 62
Mean 234.6
Std Dev 204.5

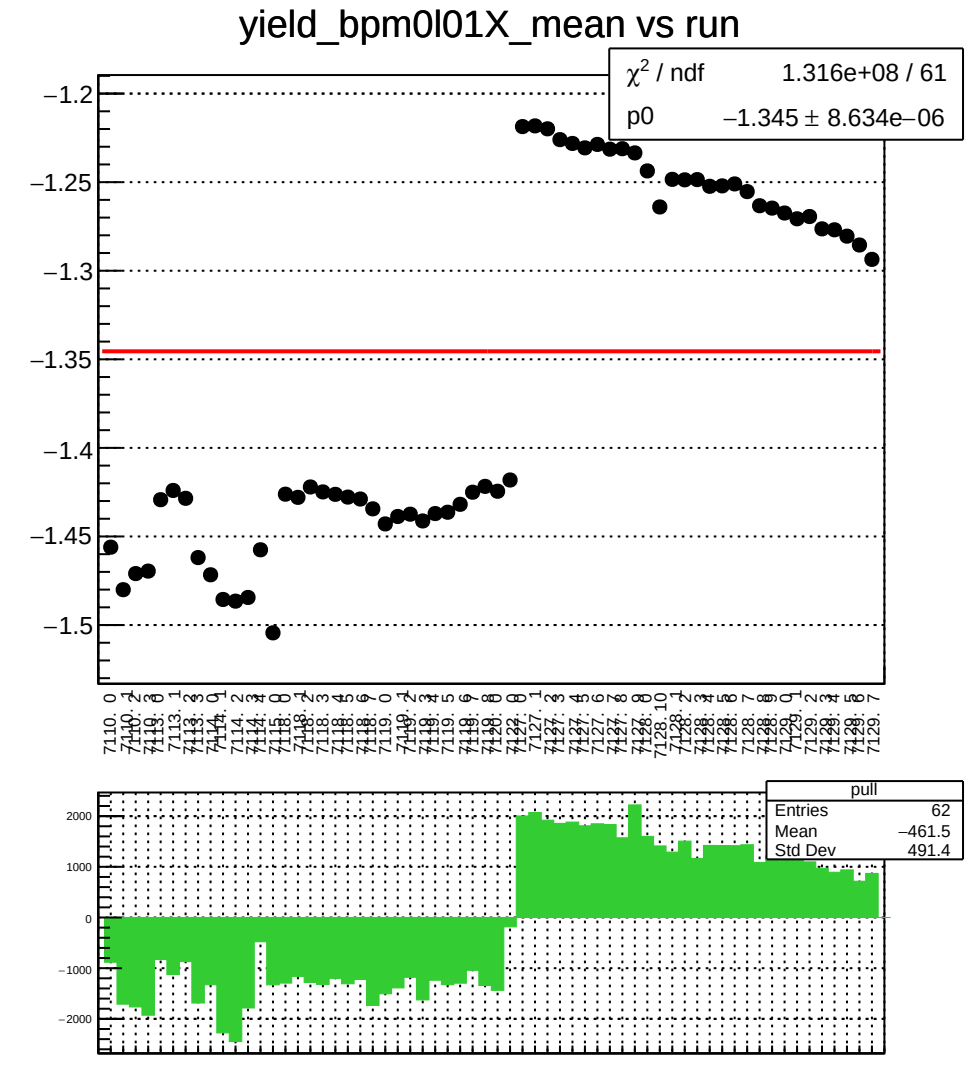

pull1D
Entries 62
Mean 1.257
Std Dev 4.547

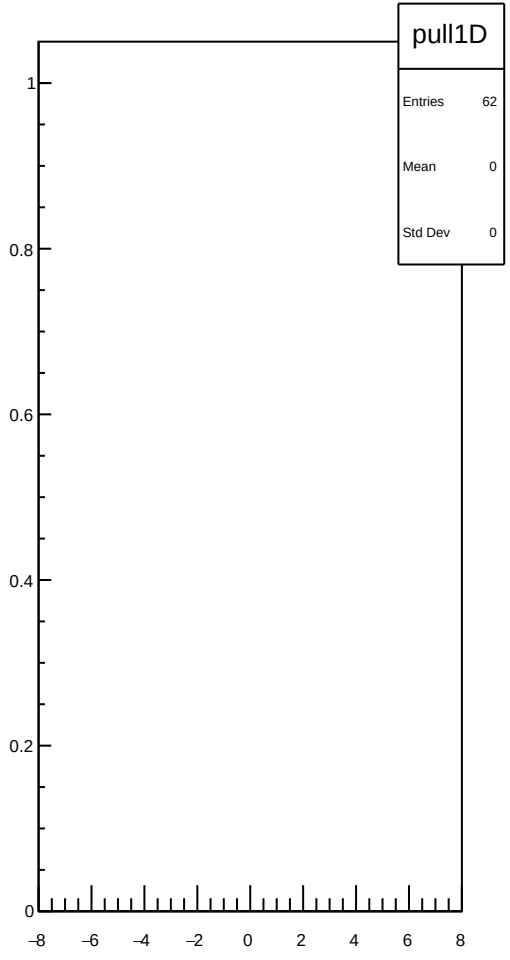

yield_bpm16X_rms vs run
χ² / ndf 1.034e+05 / 61
p0 0.00994 ± 9.542e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

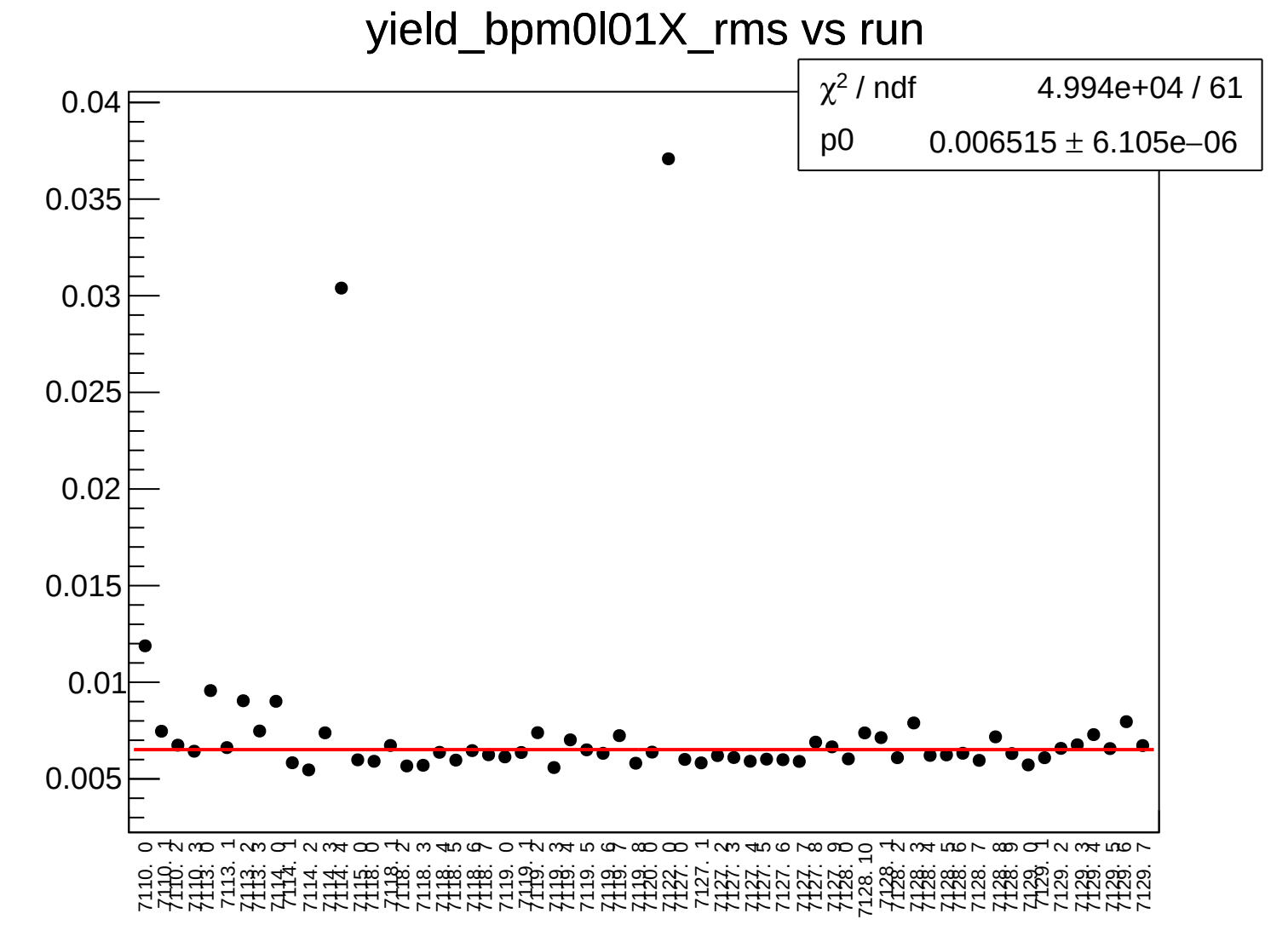

yield_bpm16Y_mean vs run
χ² / ndf 6.223e+04 / 61
p0 −0.2269 ± 6.989e−06
−0.222
−0.224
−0.226
−0.228
−0.23
−0.232
pull
Entries 62
Mean 200.9
Std Dev 152.9
80
60
40
20
0
−20
−40
−60
−80

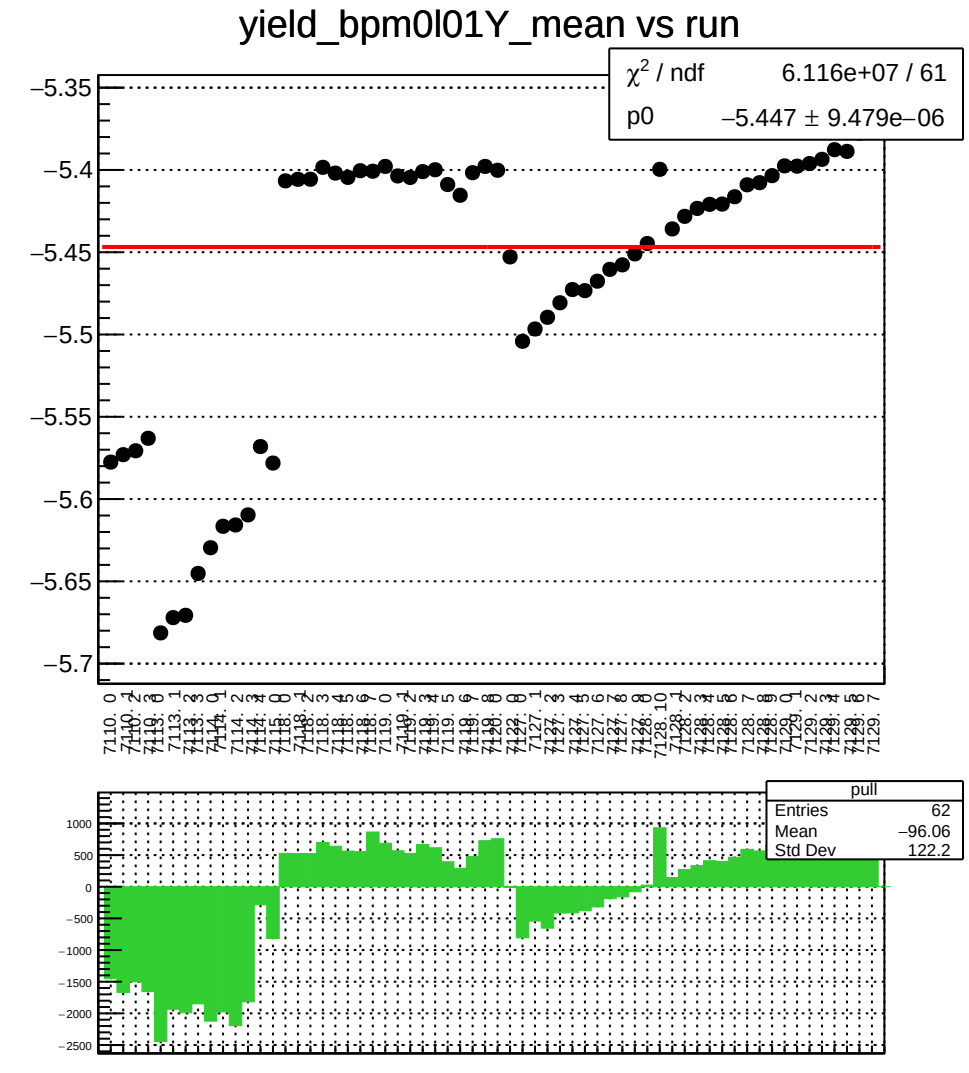

pull1D
Entries 62
Mean −1.935
Std Dev 4.397
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

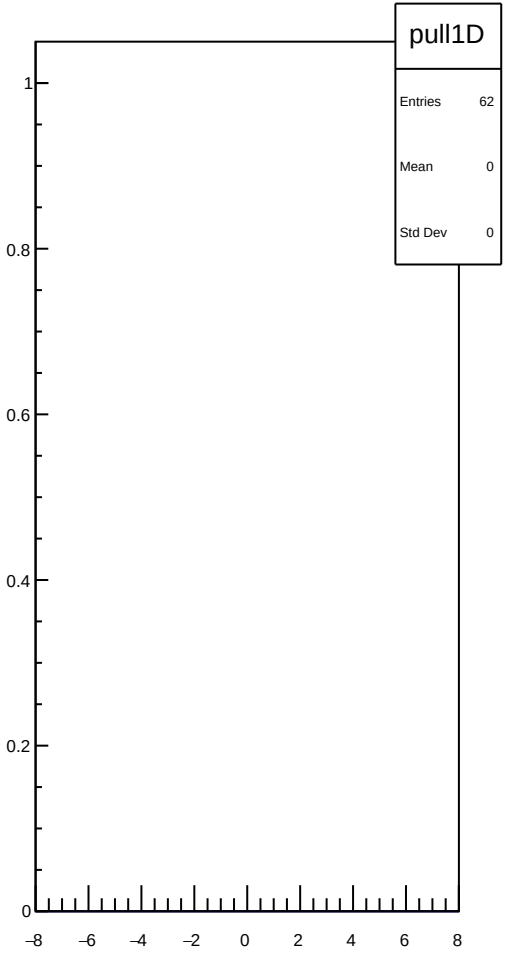

yield_bpm16Y_rms vs run
χ² / ndf 3.9e+04 / 61
p0 0.005299 ± 4.942e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

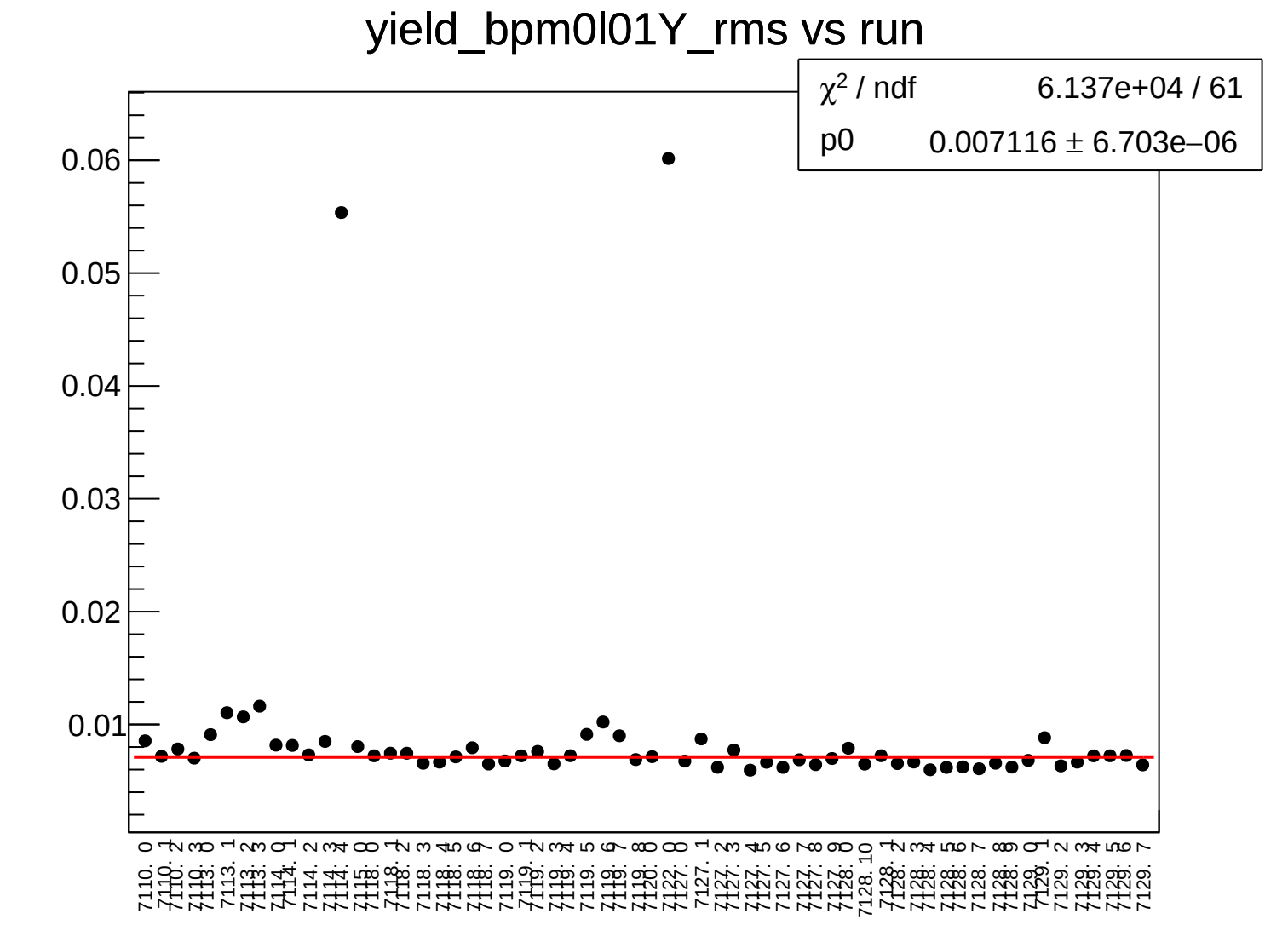

yield_bpm0l01X_mean vs run
χ² / ndf 1.316e+08 / 61
p0 −1.345 ± 8.634e−06
pull
Entries 62
Mean −461.5
Std Dev 491.4

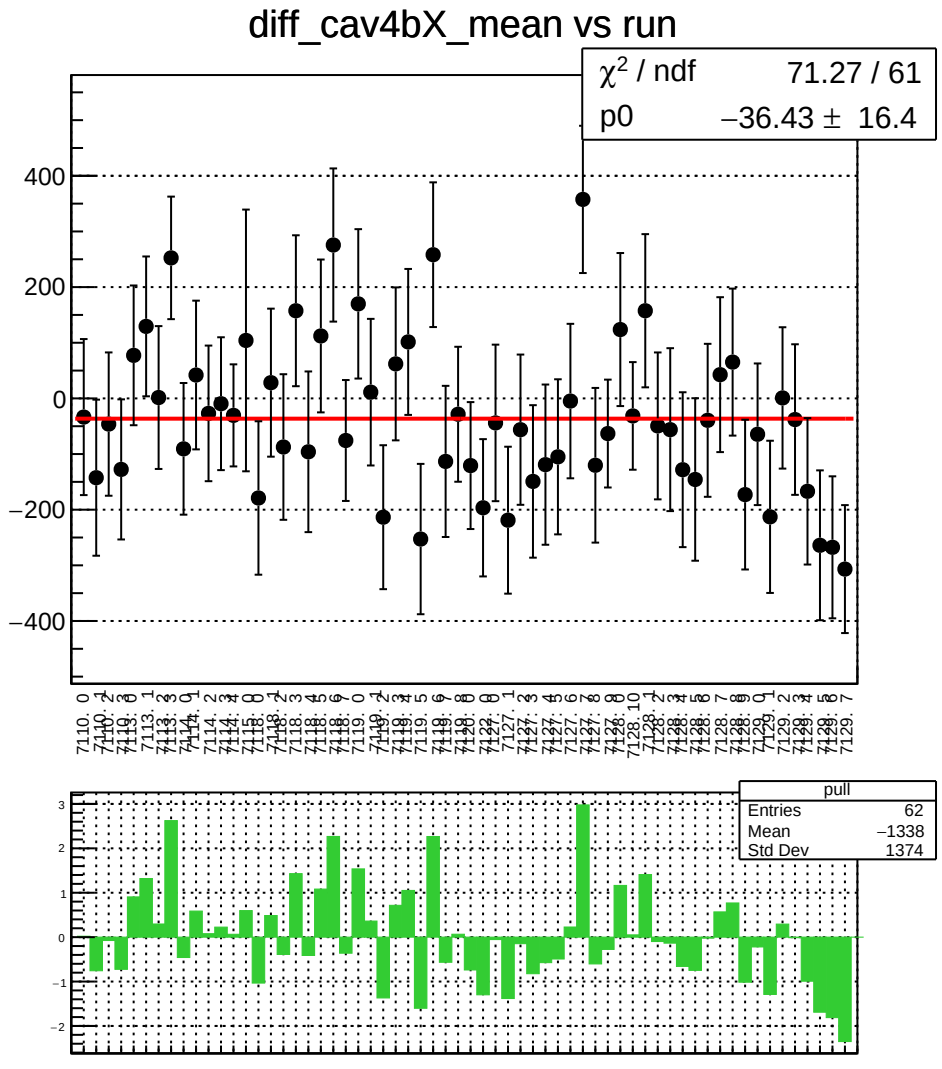

pull1D
Entries 62
Mean 0
Std Dev 0

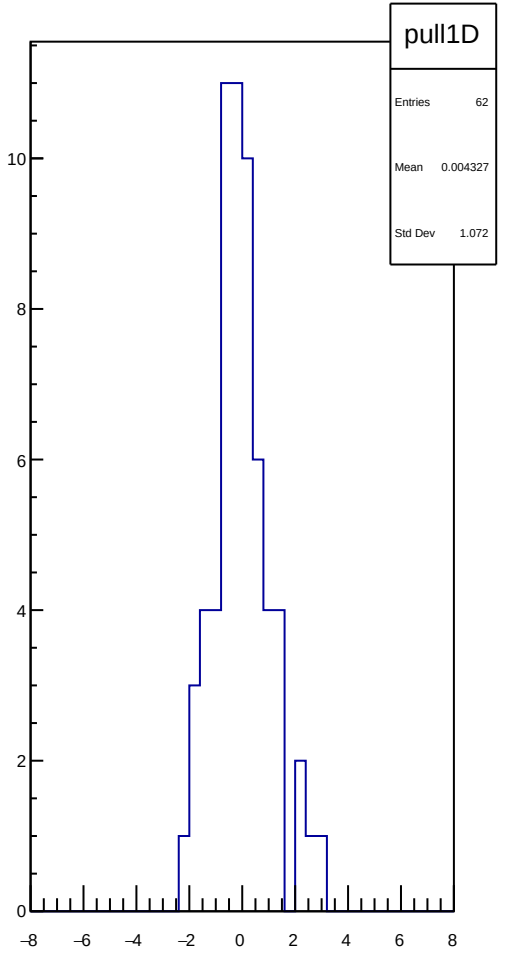

yield_bpm0l01X_rms vs run
χ² / ndf 4.994e+04 / 61
p0 0.006515 ± 6.105e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

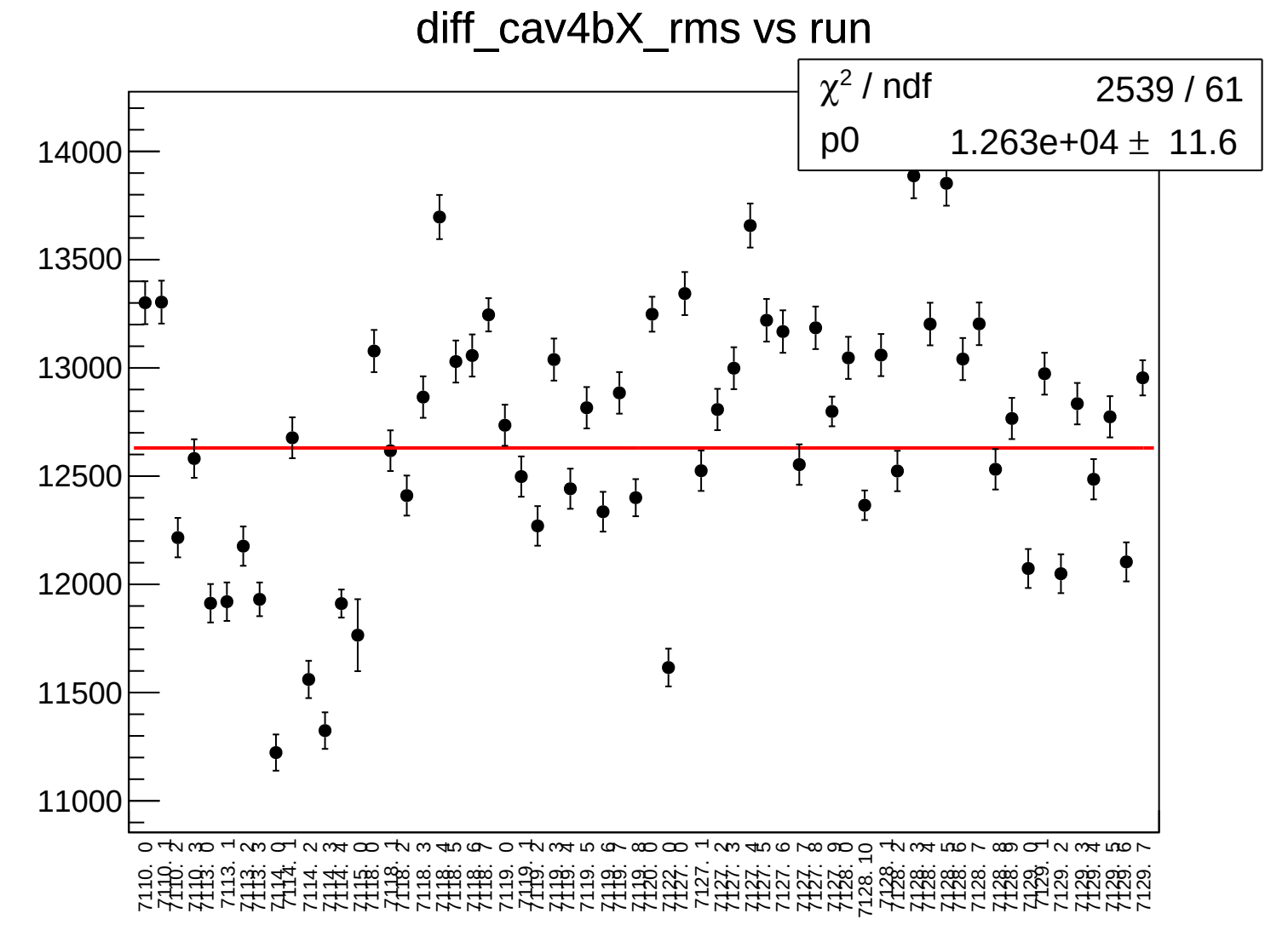

yield_bpm0l01Y_mean vs run
χ² / ndf 6.116e+07 / 61
p0 −5.447 ± 9.479e−06
−5.35
−5.4
−5.45
−5.5
−5.55
−5.6
−5.65
−5.7
pull
Entries 62
Mean −96.06
Std Dev 122.2
1000
500
0
−500
−1000
−1500
−2000
−2500

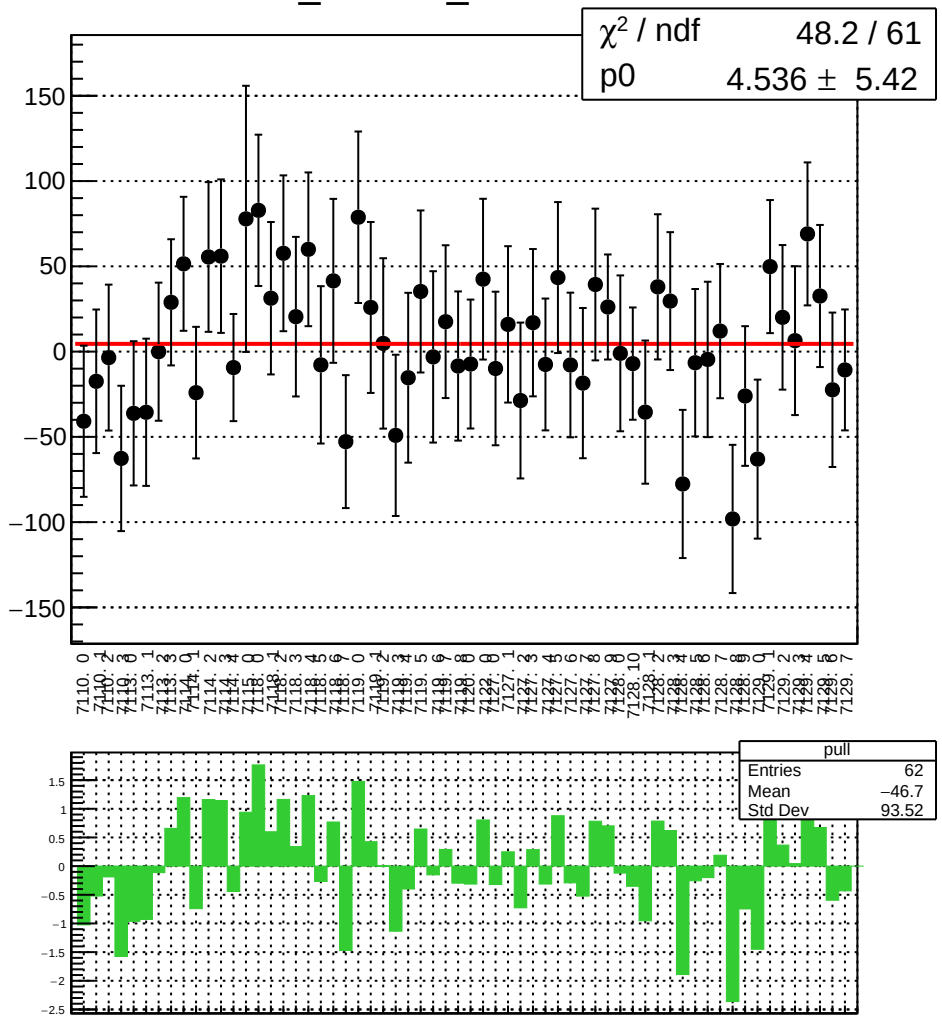

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

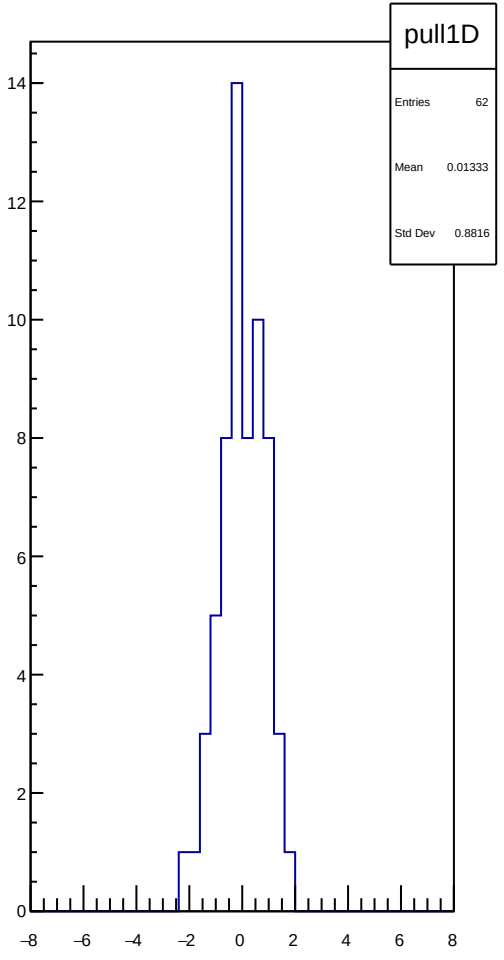

yield_bpm0l01Y_rms vs run
χ² / ndf 6.137e+04 / 61
p0 0.007116 ± 6.703e−06
0.06
0.05
0.04
0.03
0.02
0.01

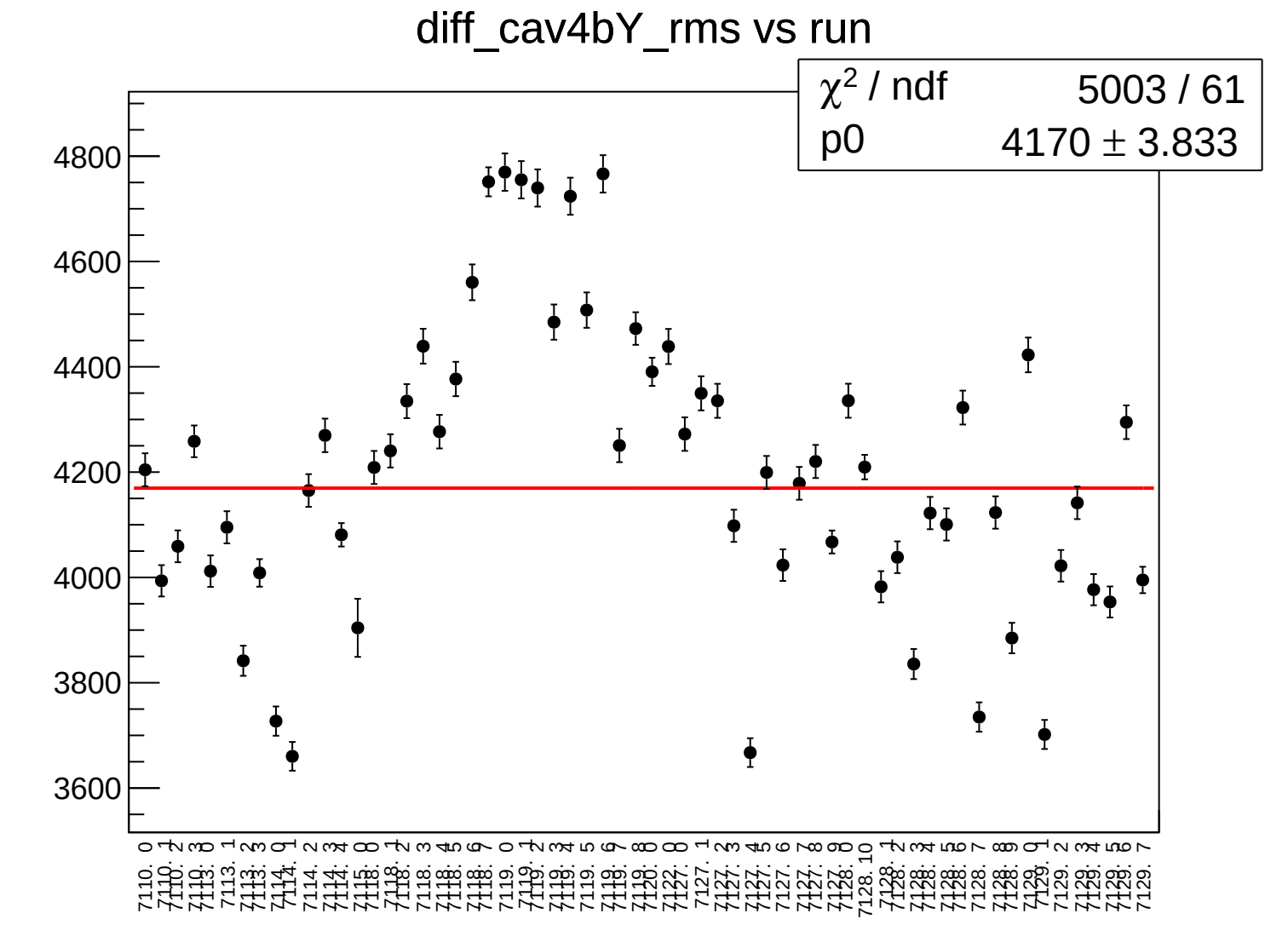

diff_cav4bX_mean vs run
χ² / ndf 71.27 / 61
p0 −36.43 ± 16.4
400
200
0
−200
−400
pull
Entries 62
Mean −1338
Std Dev 1374
3
2
1
0
−1
−2

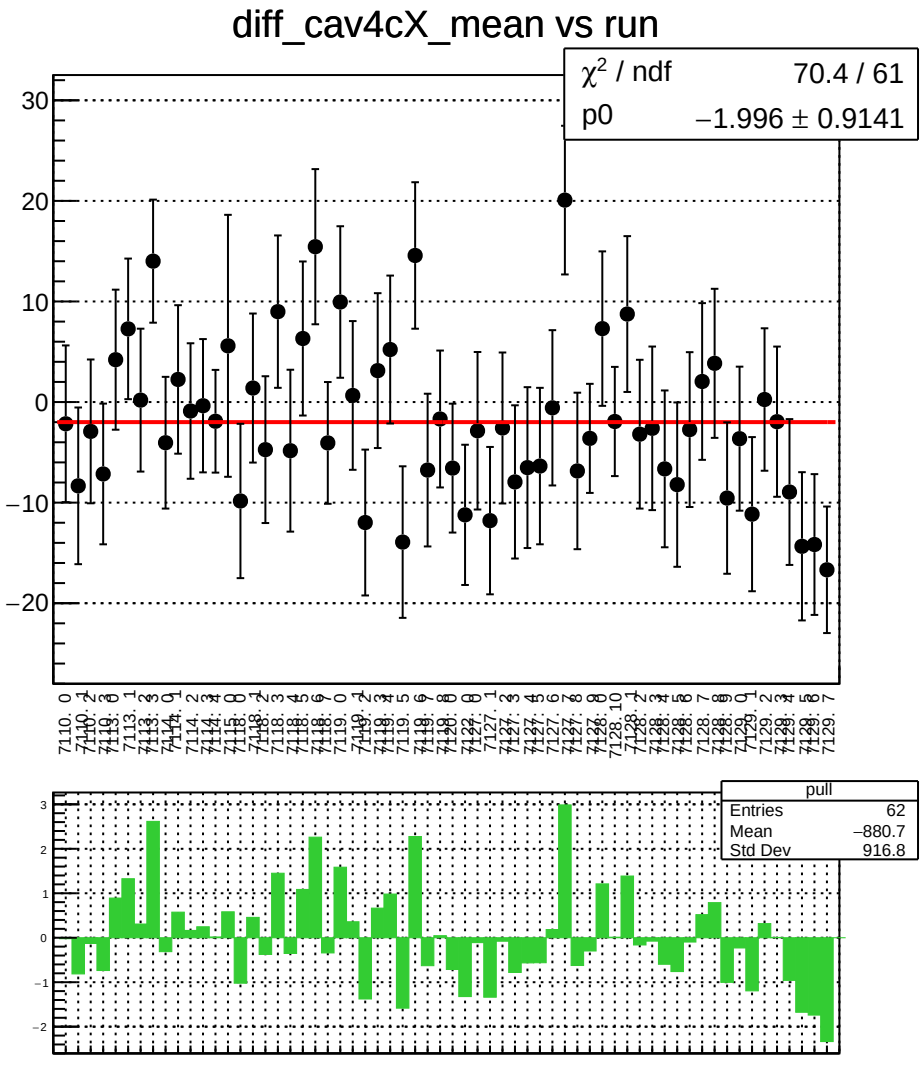

pull1D
Entries 62
Mean 0.004327
Std Dev 1.072
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

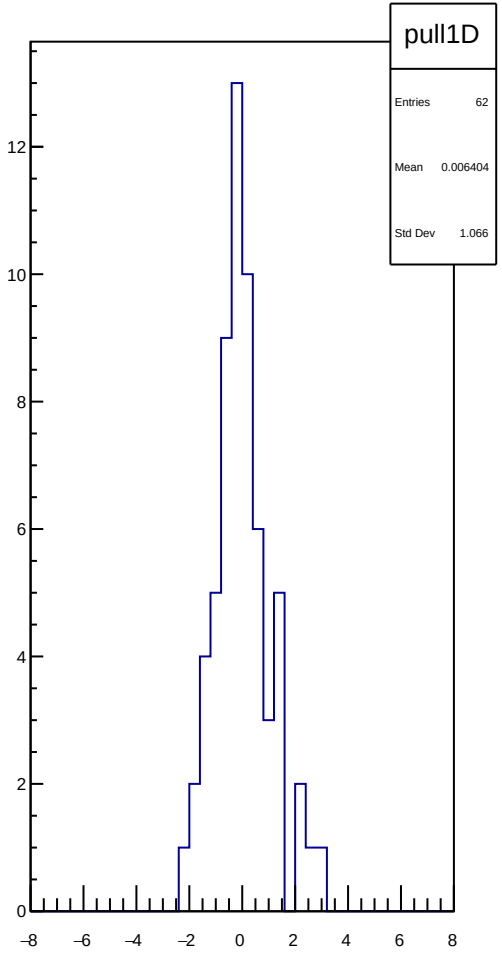

diff_cav4bX_rms vs run
χ² / ndf 2539 / 61
p0 1.263e+04 ± 11.6
14000
13500
13000
12500
12000
11500
11000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

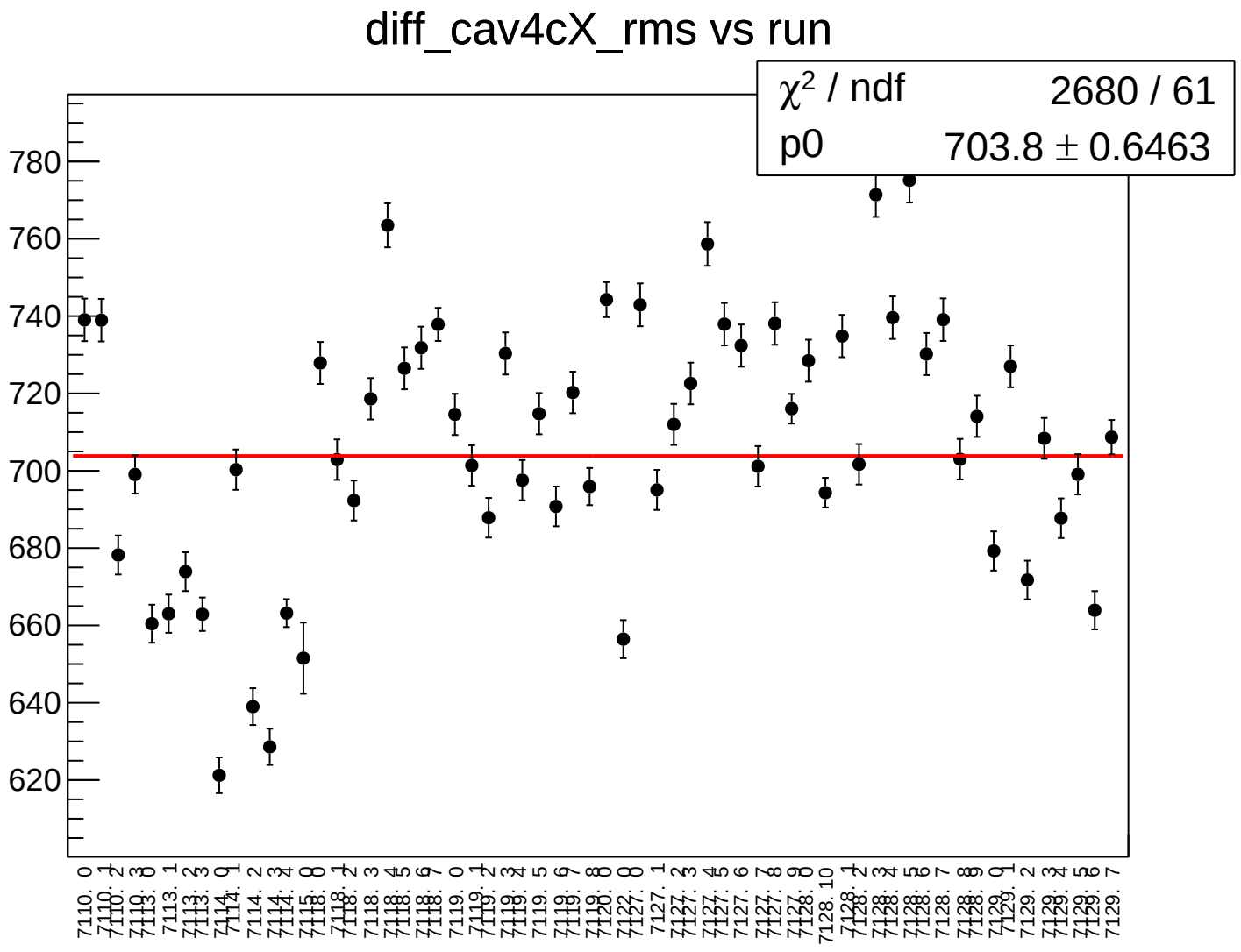

diff_cav4bY_mean vs run
χ² / ndf 48.2 / 61
p0 4.536 ± 5.42
pull
Entries 62
Mean −46.7
Std Dev 93.52

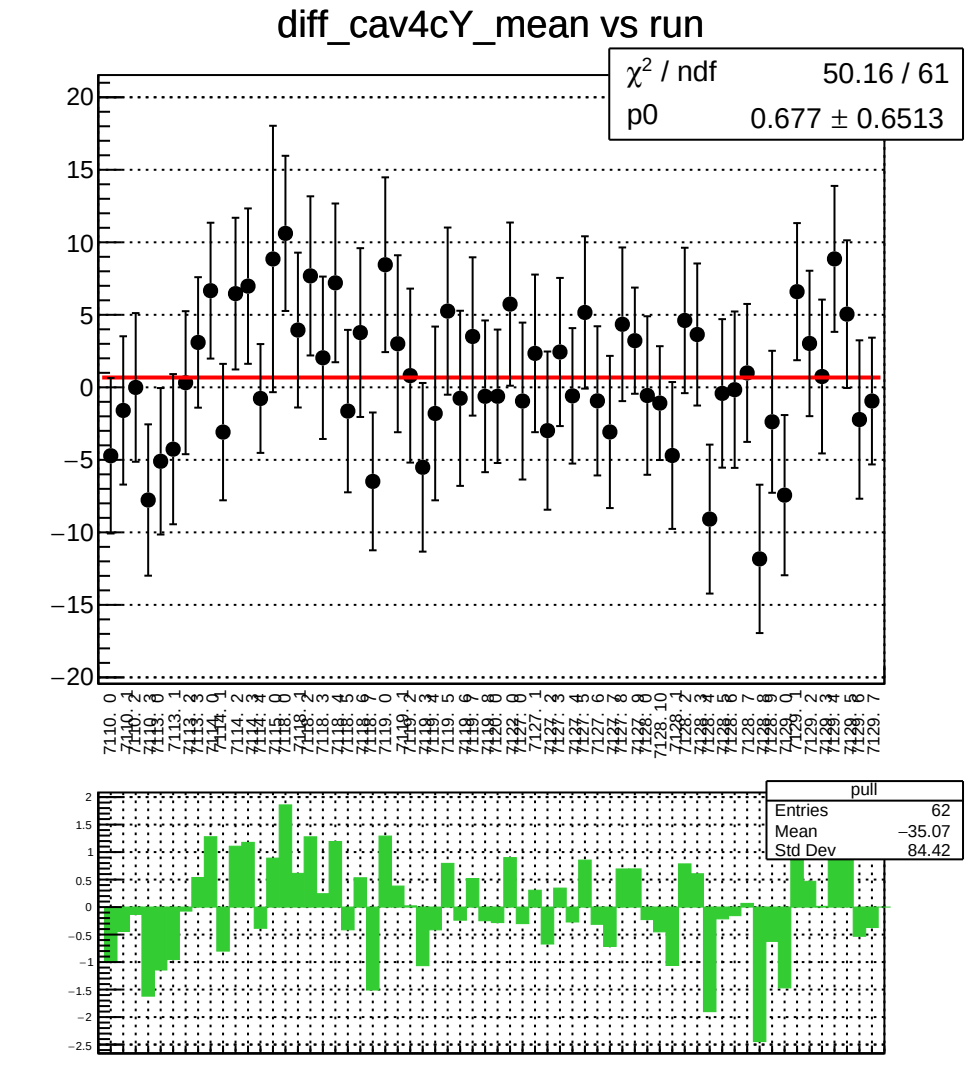

pull1D
Entries 62
Mean 0.01333
Std Dev 0.8816

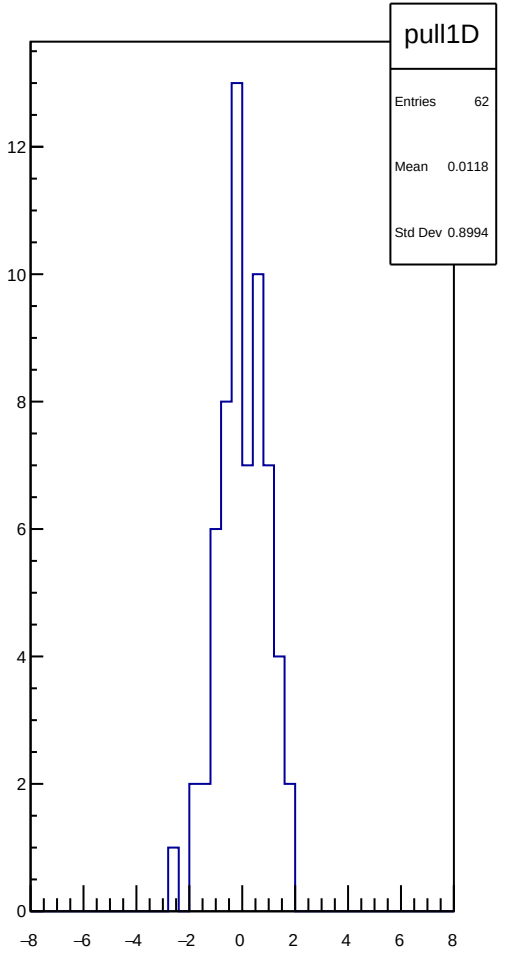

diff_cav4bY_rms vs run
χ² / ndf 5003 / 61
p0 4170 ± 3.833
4800
4600
4400
4200
4000
3800
3600

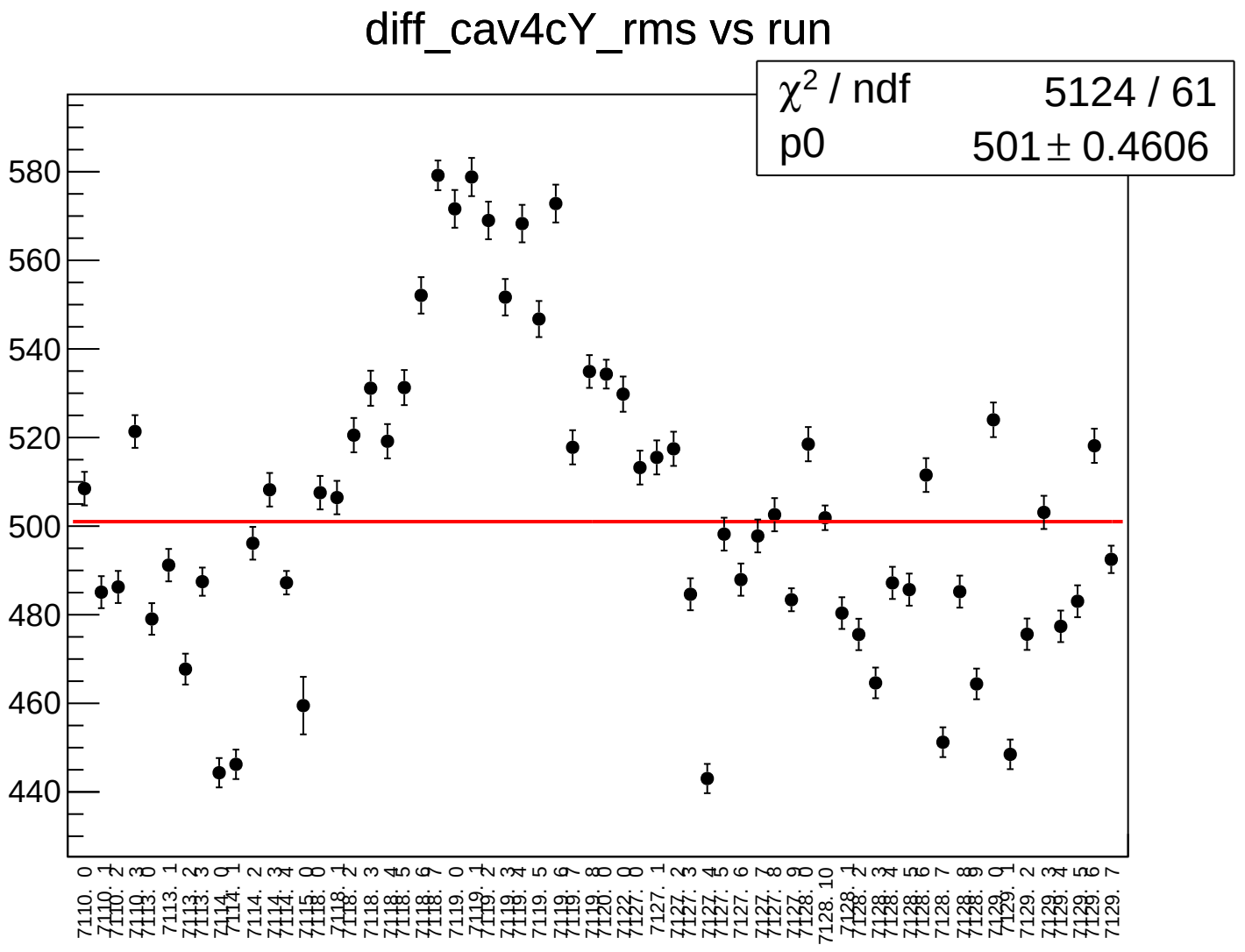

diff_cav4cX_mean vs run
χ² / ndf 70.4 / 61
p0 −1.996 ± 0.9141
pull
Entries 62
Mean −880.7
Std Dev 916.8

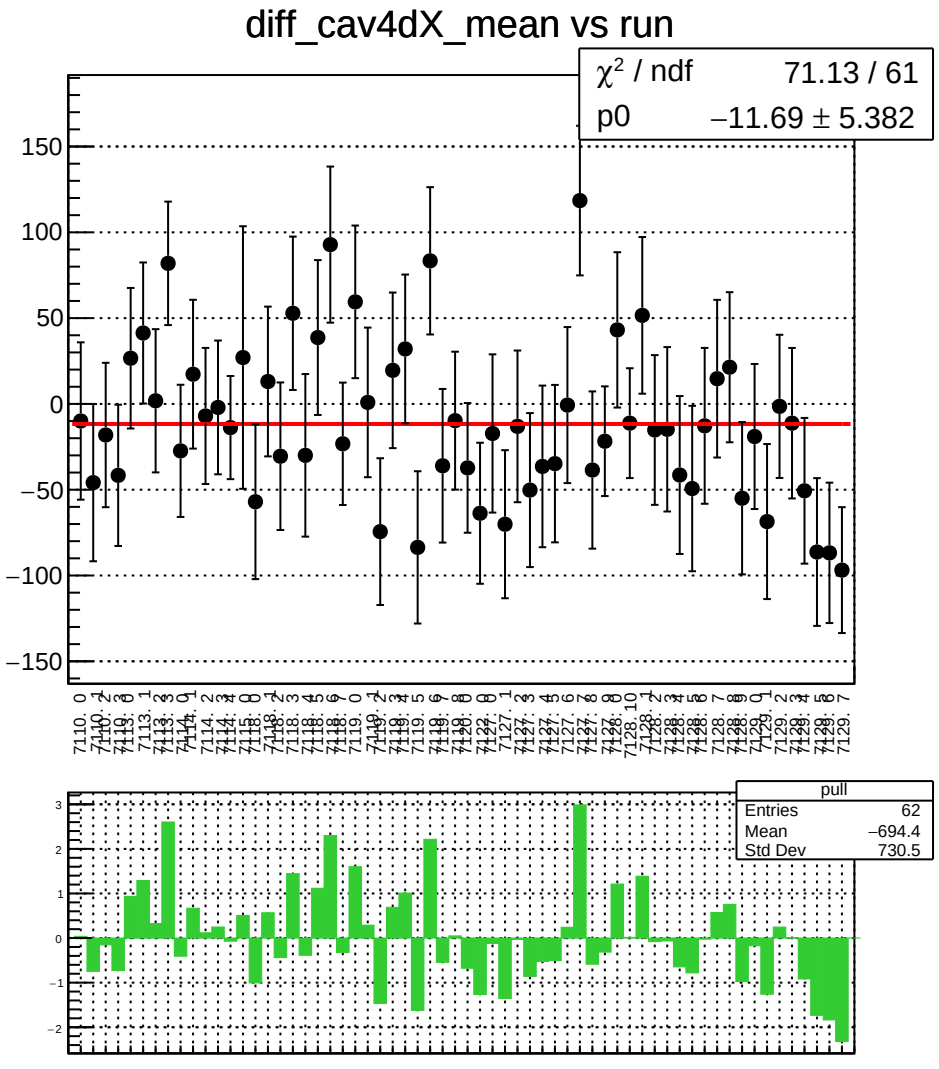

pull1D
Entries 62
Mean 0.006404
Std Dev 1.066

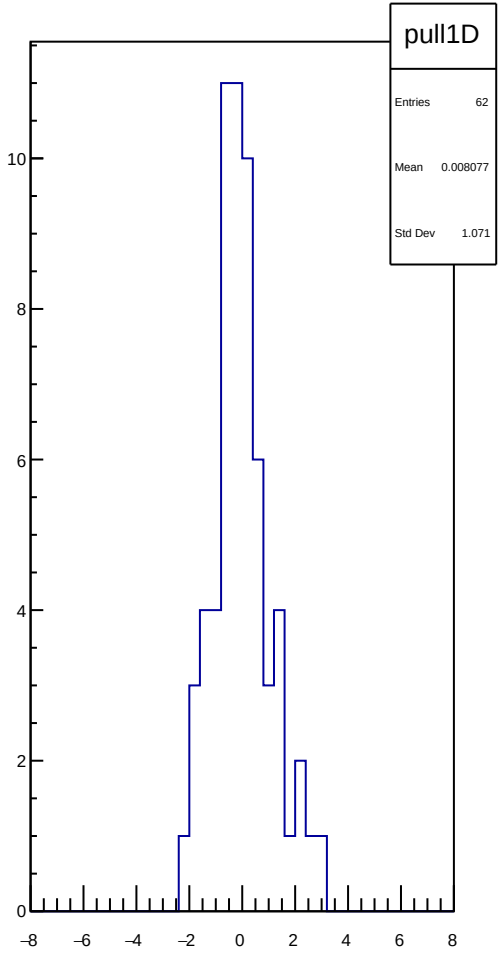

diff_cav4cX_rms vs run
χ² / ndf 2680 / 61
p0 703.8 ± 0.6463
780
760
740
720
700
680
660
640
620

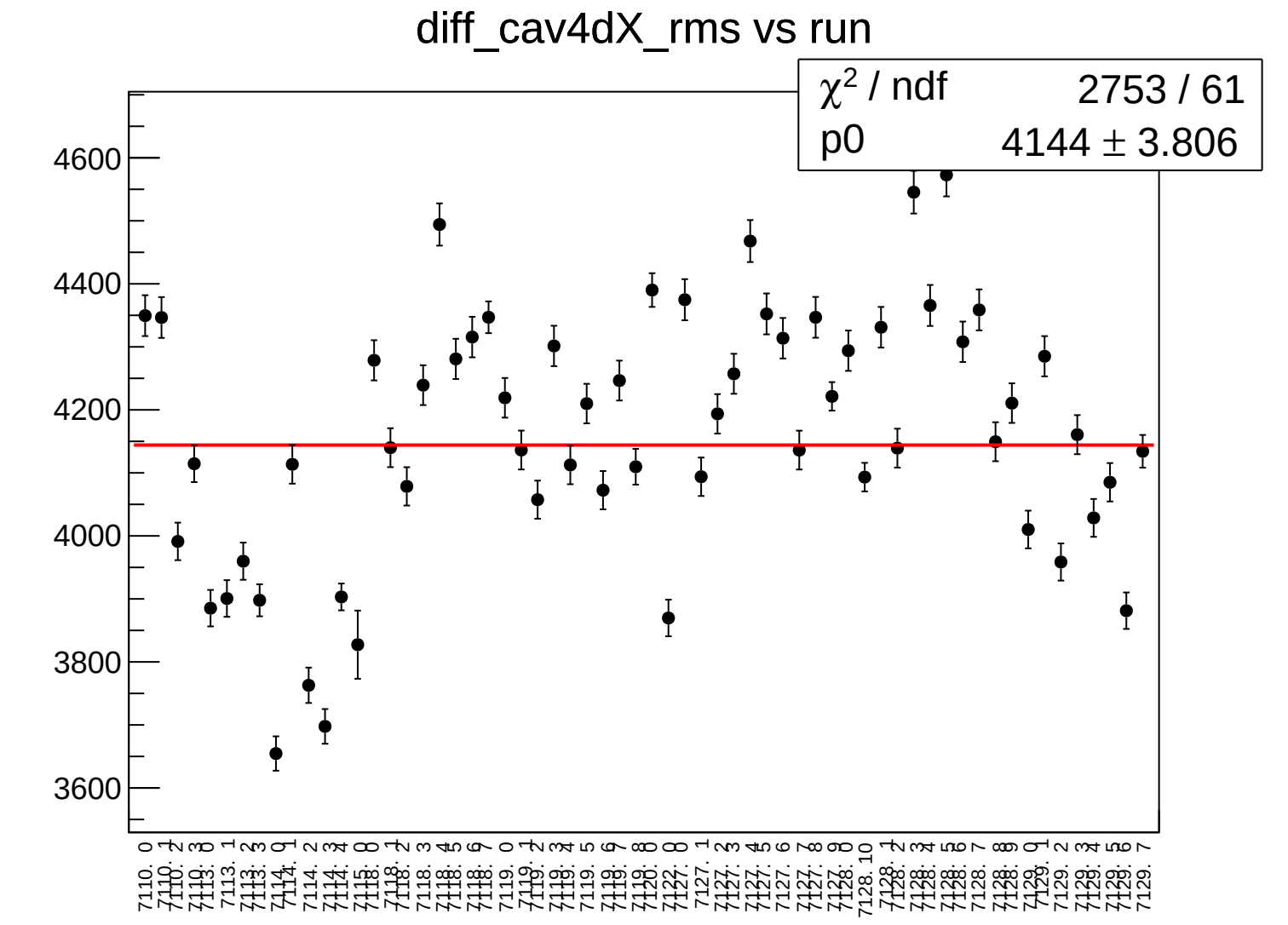

diff_cav4cY_mean vs run
χ² / ndf 50.16 / 61
p0 0.677 ± 0.6513
pull
Entries 62
Mean −35.07
Std Dev 84.42

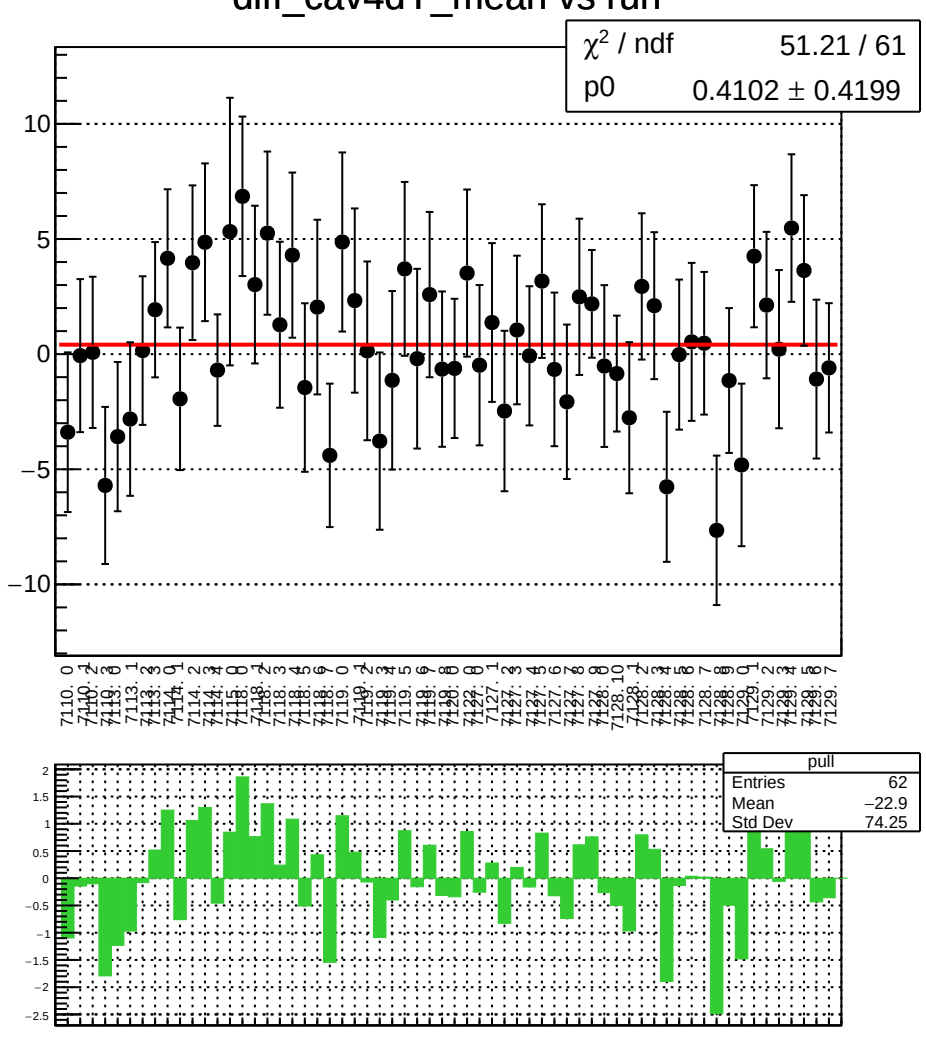

pull1D
Entries 62
Mean 0.0118
Std Dev 0.8994

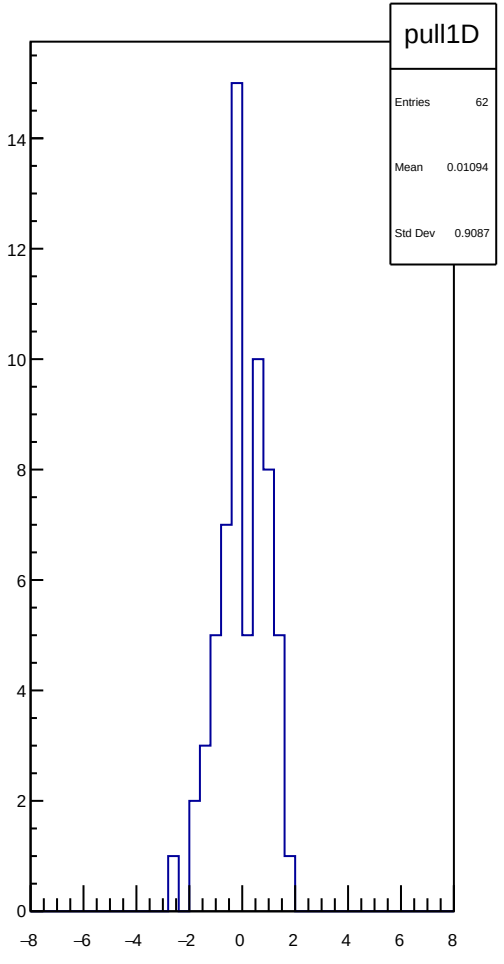

diff_cav4cY_rms vs run
χ² / ndf 5124 / 61
p0 501 ± 0.4606
580
560
540
520
500
480
460
440
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

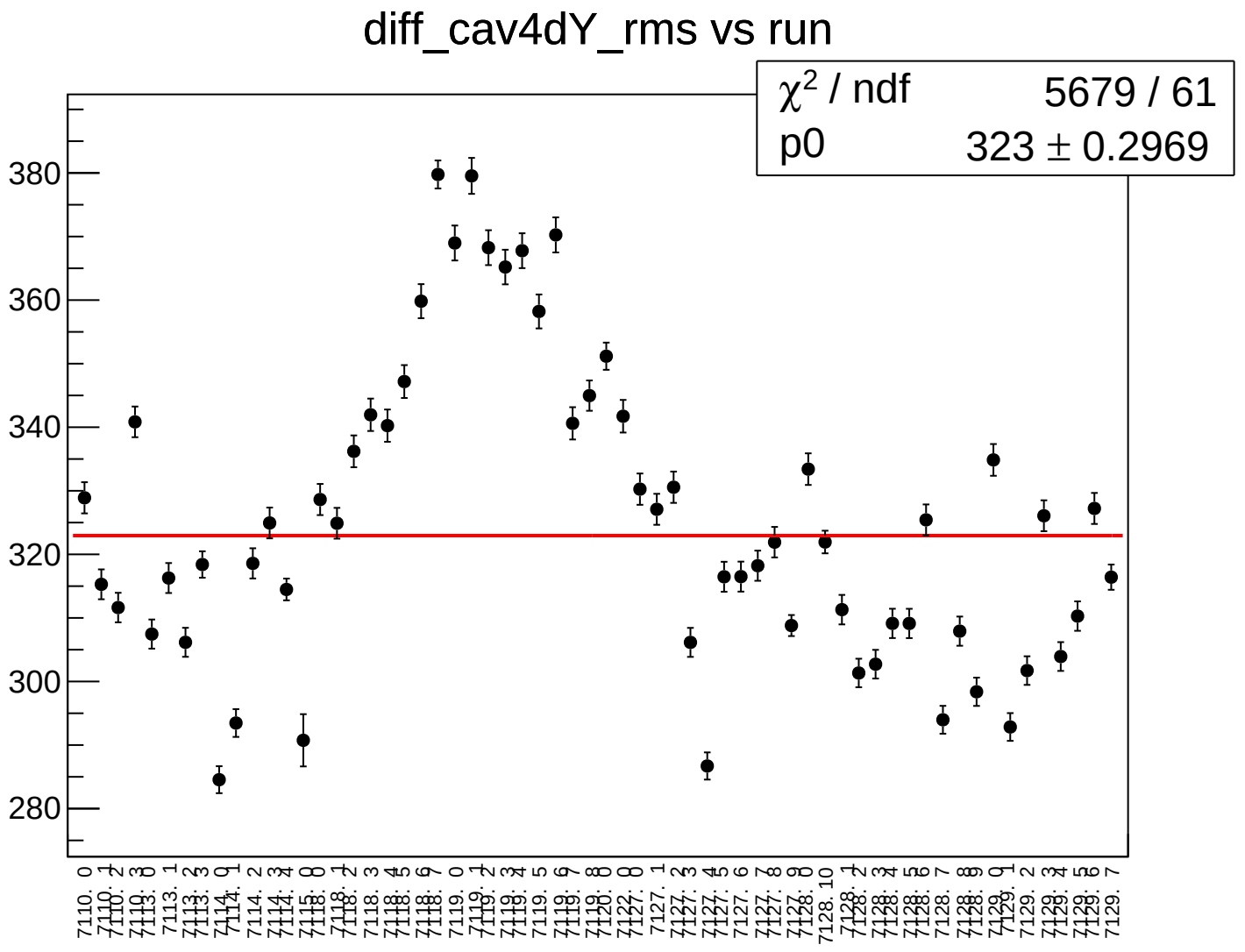

diff_cav4dX_mean vs run
χ² / ndf 71.13 / 61
p0 −11.69 ± 5.382
pull
Entries 62
Mean −694.4
Std Dev 730.5

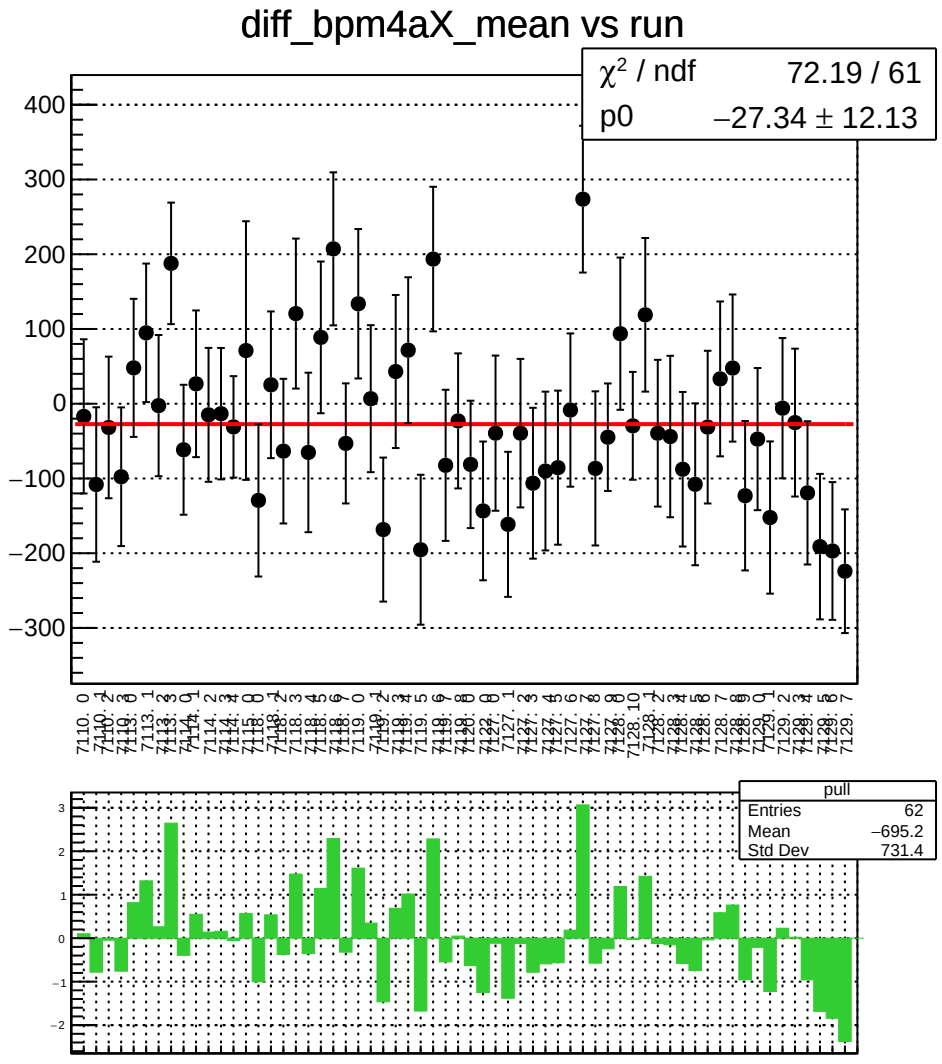

pull1D
Entries 62
Mean 0.008077
Std Dev 1.071

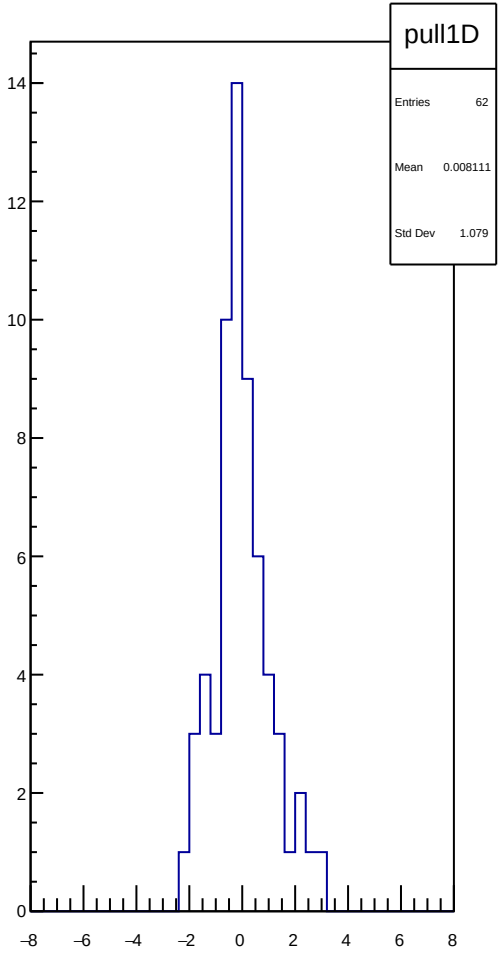

diff_cav4dX_rms vs run
χ² / ndf 2753 / 61
p0 4144 ± 3.806
4600
4400
4200
4000
3800
3600

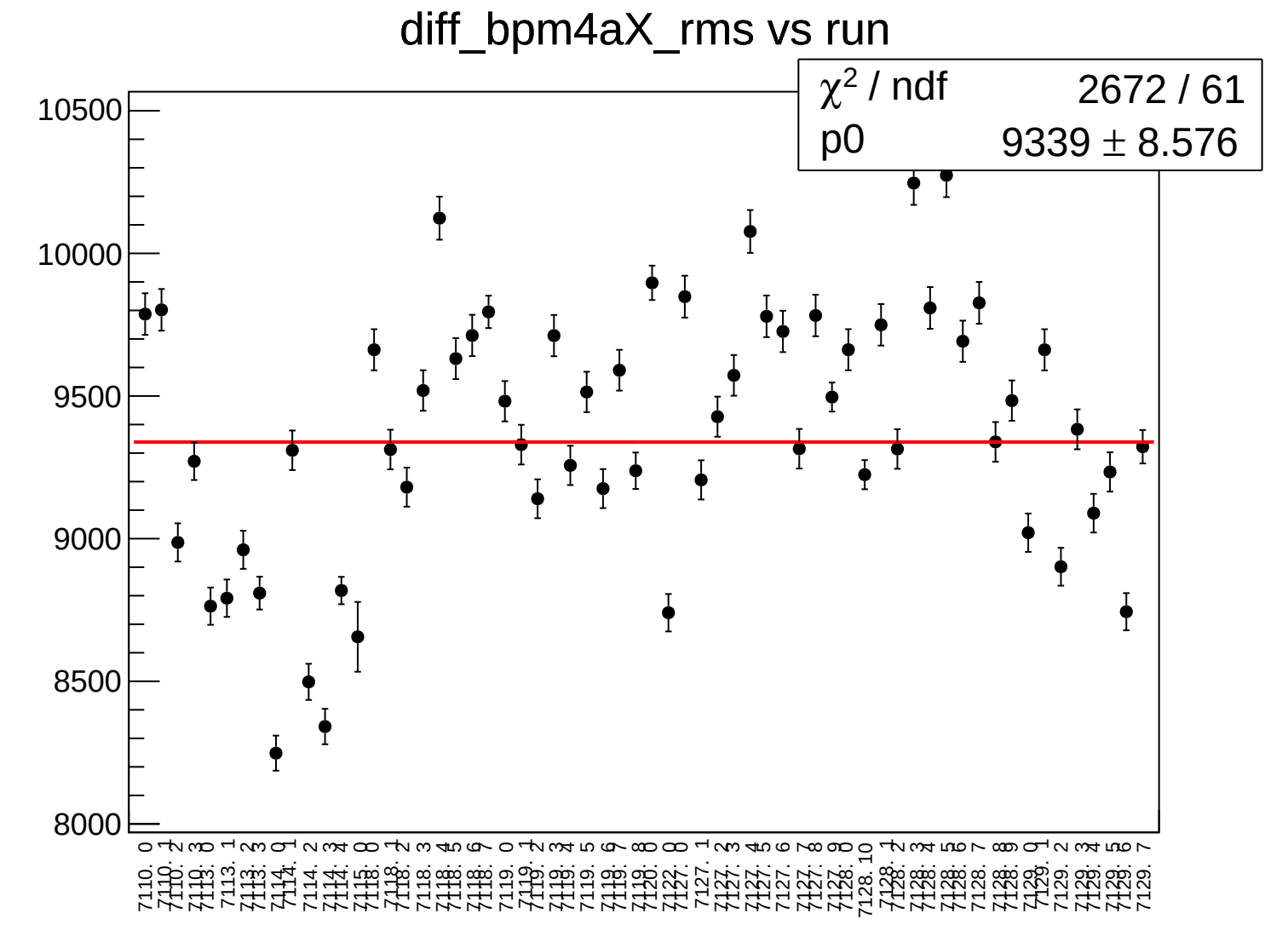

diff_cav4dY_mean vs run
χ² / ndf 51.21 / 61
p0 0.4102 ± 0.4199
pull
Entries 62
Mean −22.9
Std Dev 74.25

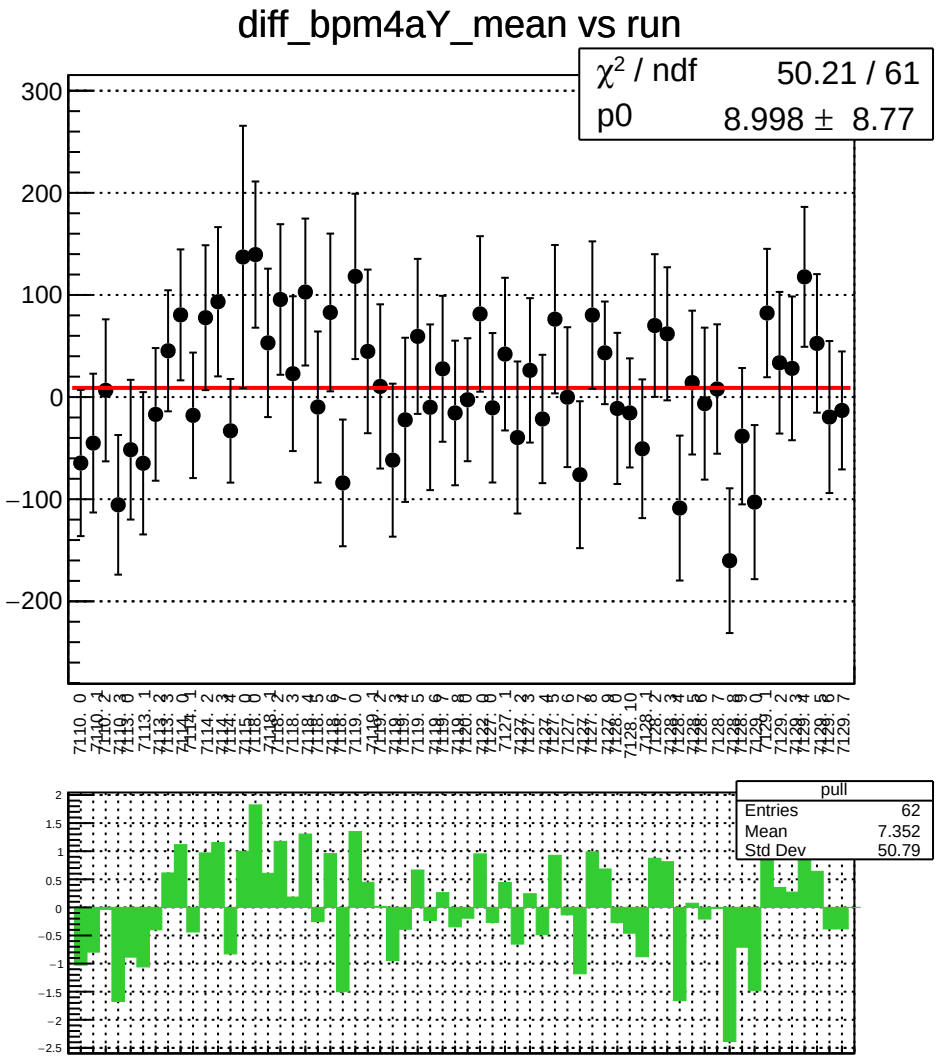

pull1D
Entries 62
Mean 0.01094
Std Dev 0.9087

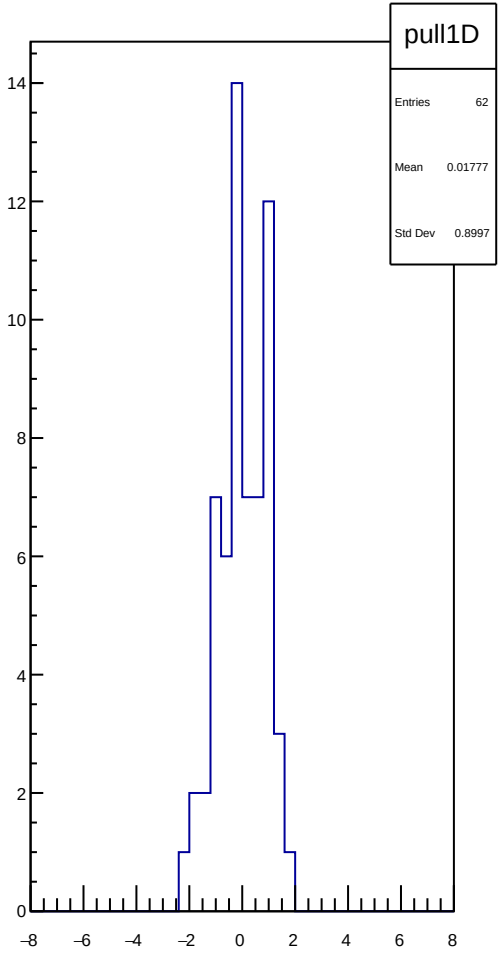

diff_cav4dY_rms vs run
χ² / ndf 5679 / 61
p0 323 ± 0.2969
380
360
340
320
300
280
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

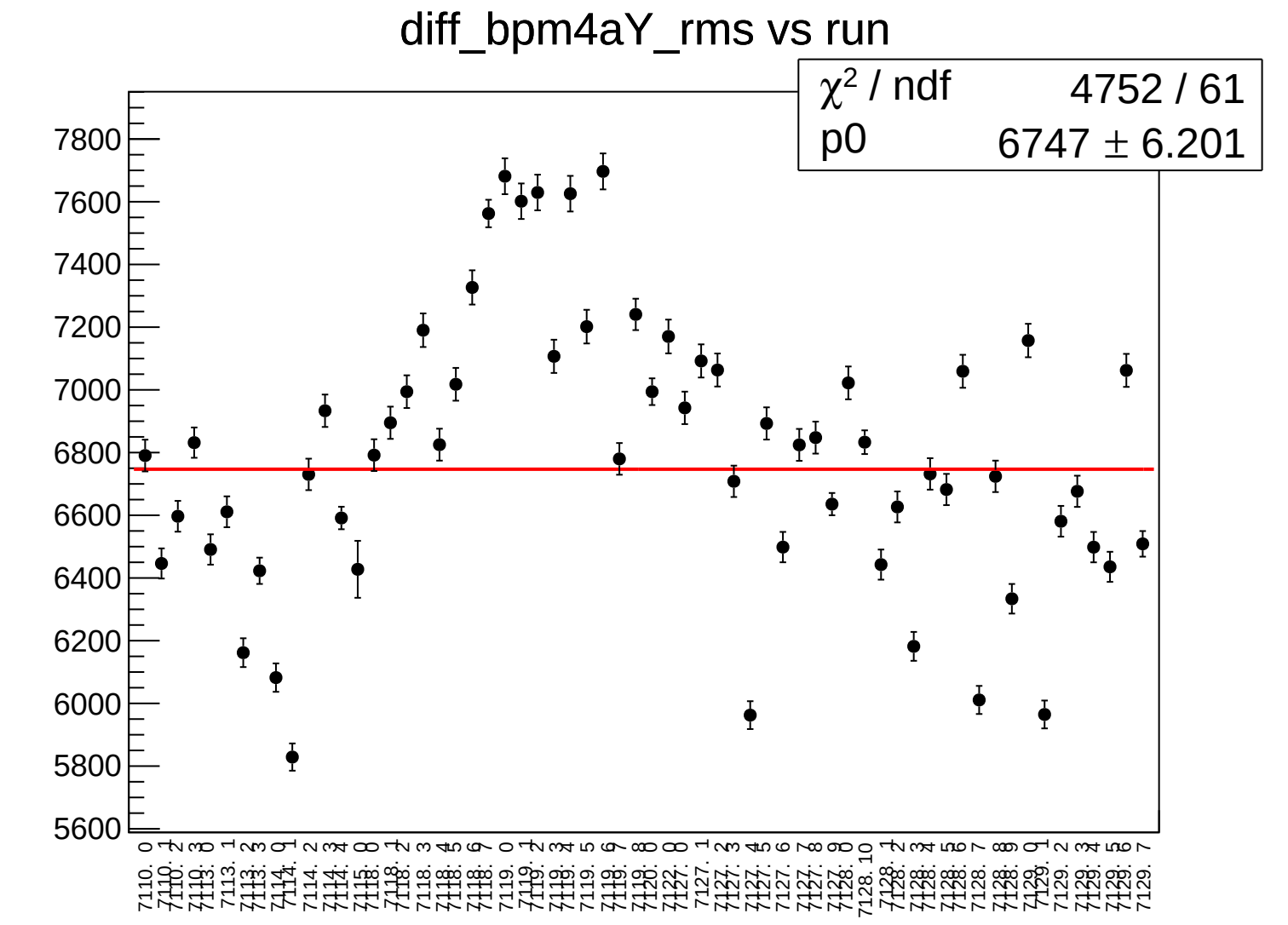

diff_bpm4aX_mean vs run
χ² / ndf 72.19 / 61
p0 −27.34 ± 12.13
pull
Entries 62
Mean −695.2
Std Dev 731.4

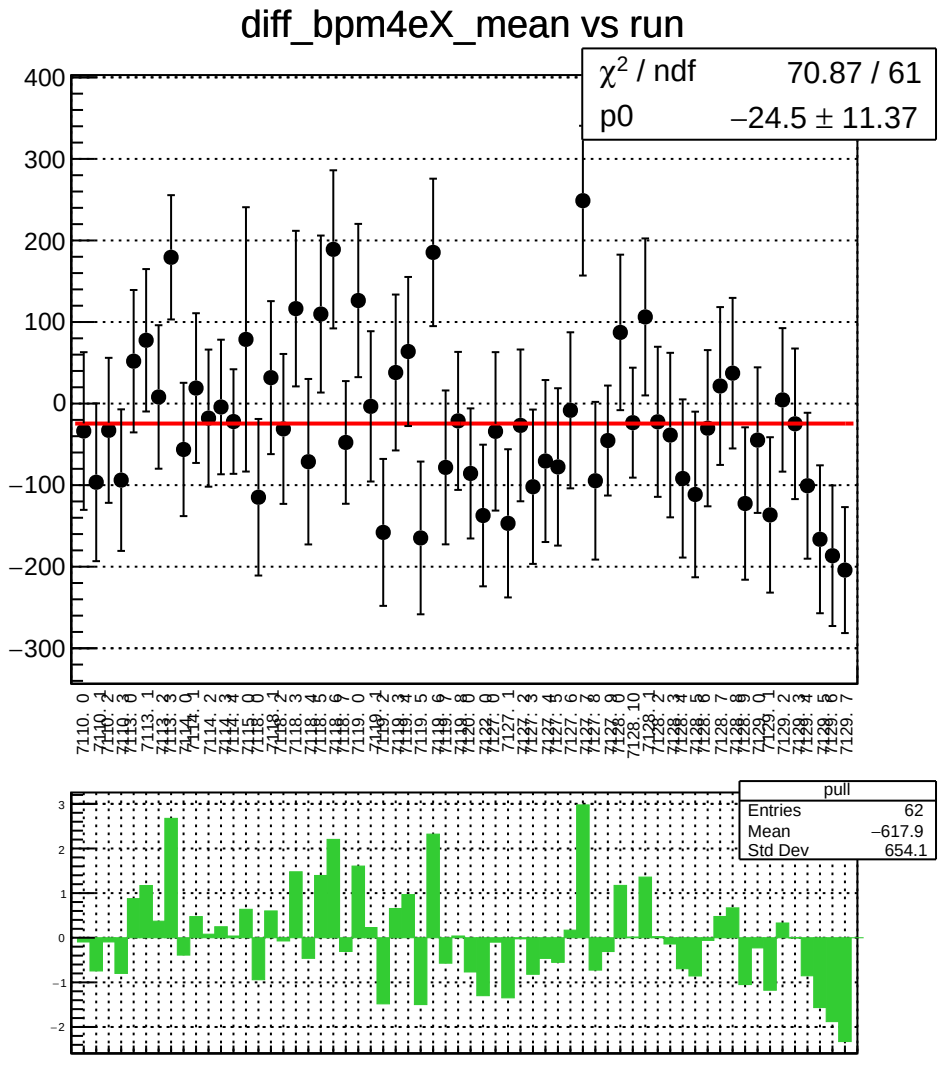

pull1D
Entries 62
Mean 0.008111
Std Dev 1.079

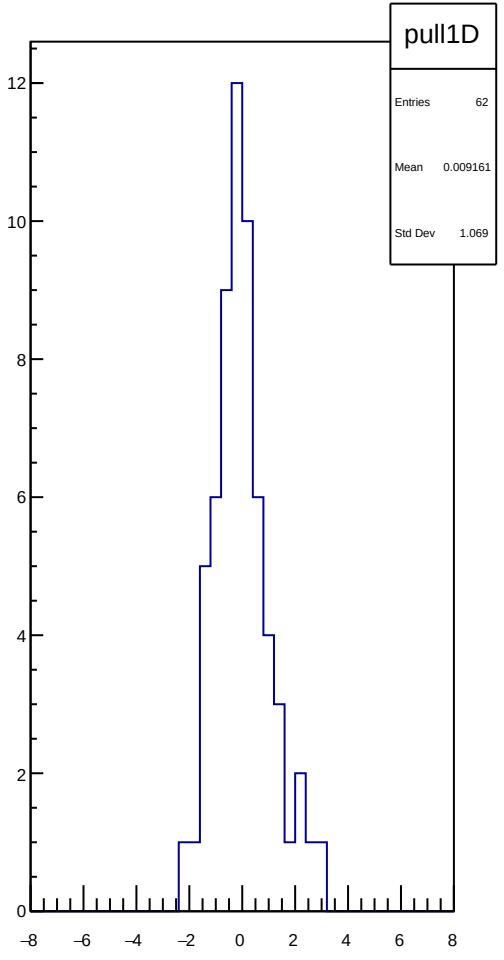

diff_bpm4aX_rms vs run
χ² / ndf 2672 / 61
p0 9339 ± 8.576
10500
10000
9500
9000
8500
8000

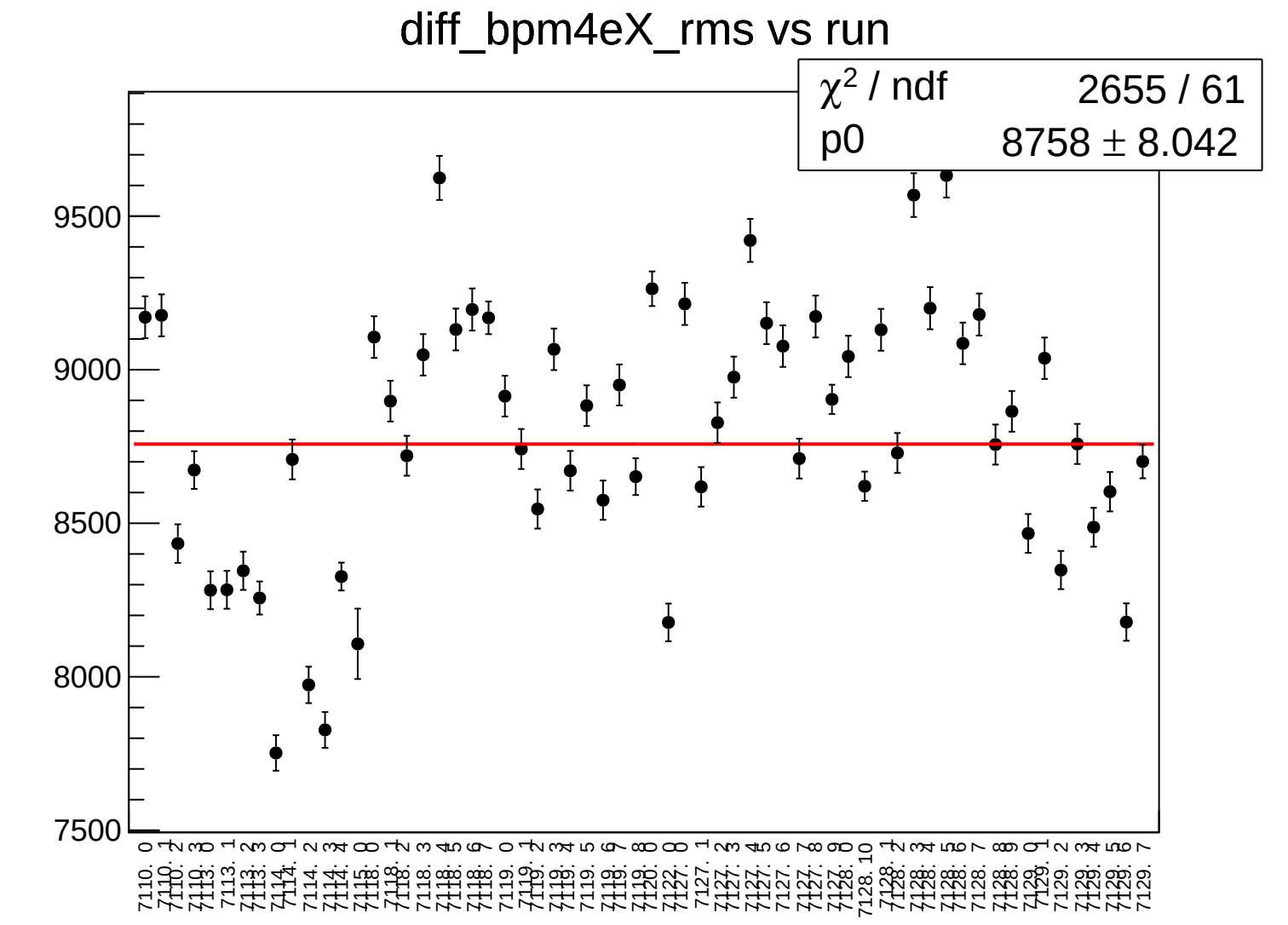

diff_bpm4aY_mean vs run
χ² / ndf 50.21 / 61
p0 8.998 ± 8.77
pull
Entries 62
Mean 7.352
Std Dev 50.79

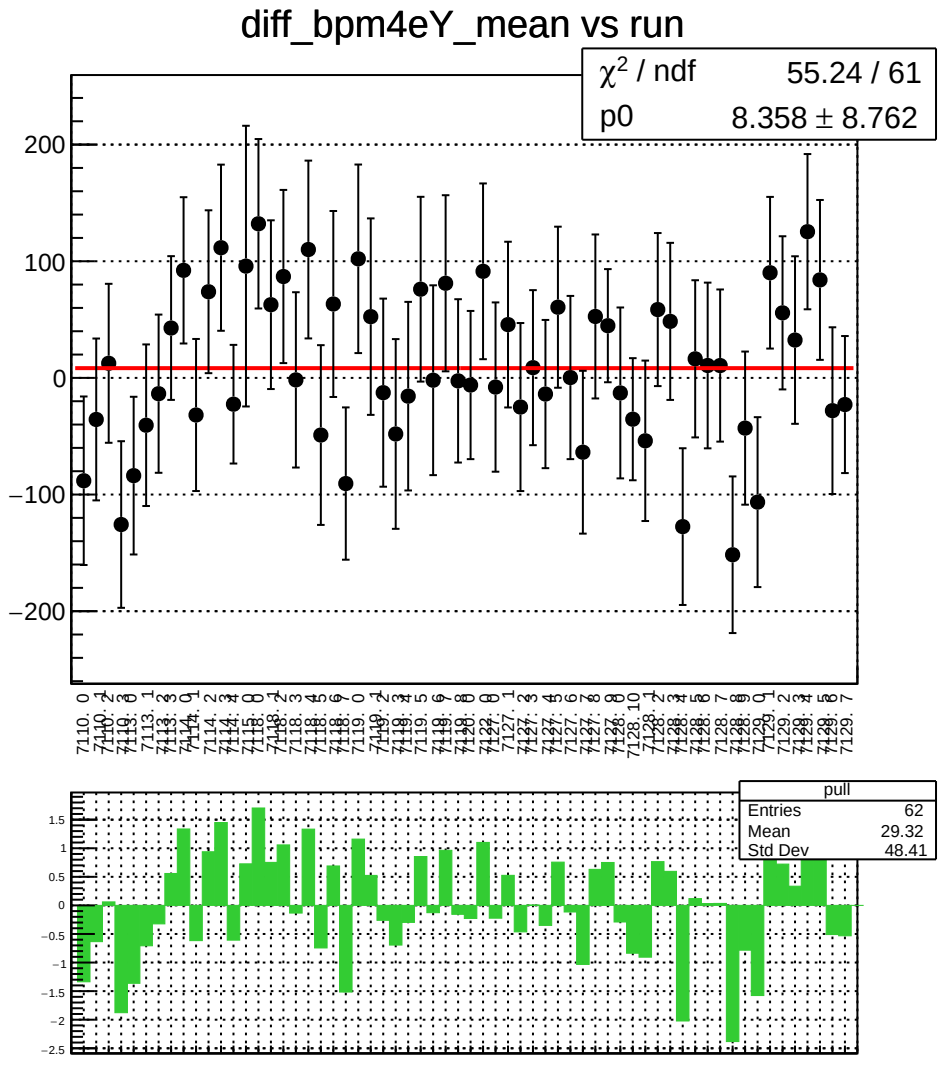

pull1D
Entries 62
Mean 0.01777
Std Dev 0.8997

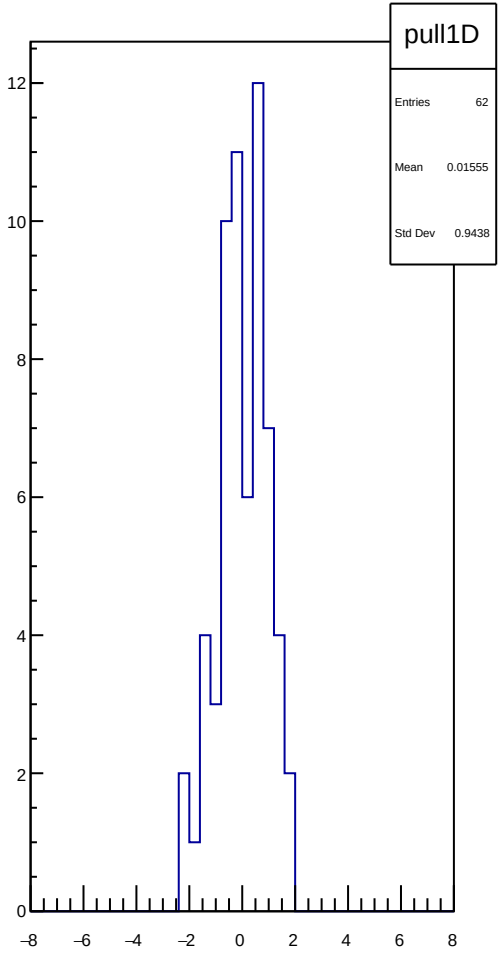

diff_bpm4aY_rms vs run
χ² / ndf 4752 / 61
p0 6747 ± 6.201
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
7110. 0
7110. 1
7110. 2
7110. 3
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 8
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

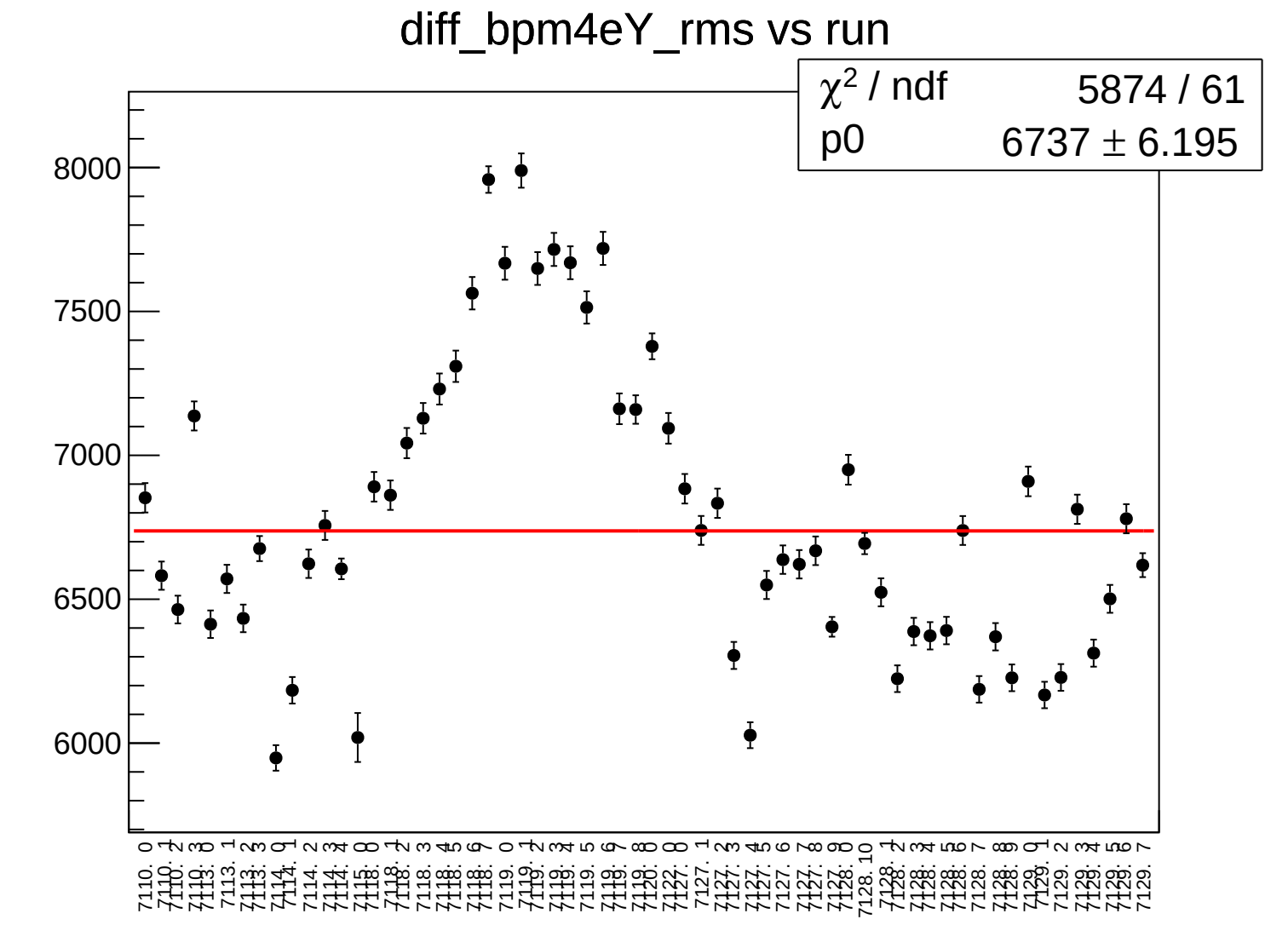

diff_bpm4eX_mean vs run
χ^2 / ndf 70.87 / 61
p0 −24.5 ± 11.37
pull
Entries 62
Mean −617.9
Std Dev 654.1

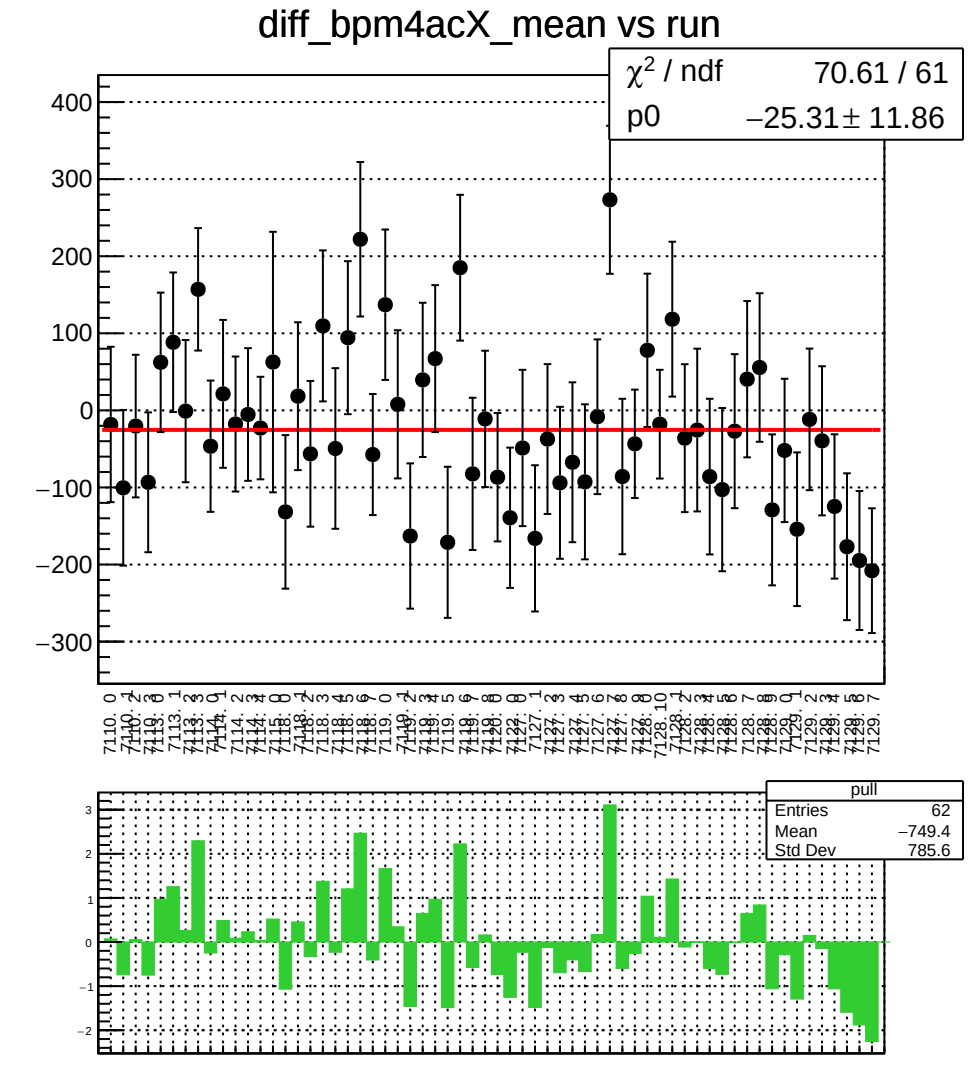

pull1D
Entries 62
Mean 0.009161
Std Dev 1.069

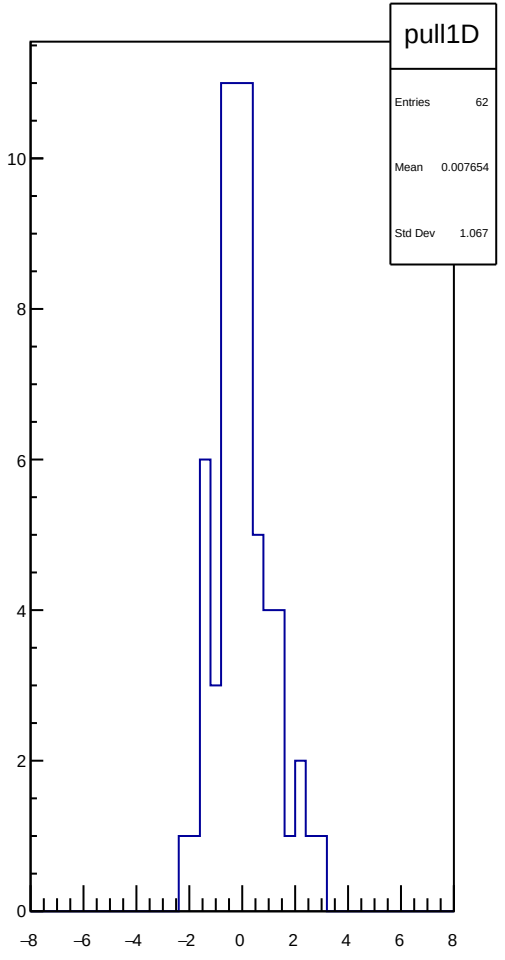

diff_bpm4eX_rms vs run
χ² / ndf 2655 / 61
p0 8758 ± 8.042
9500
9000
8500
8000
7500

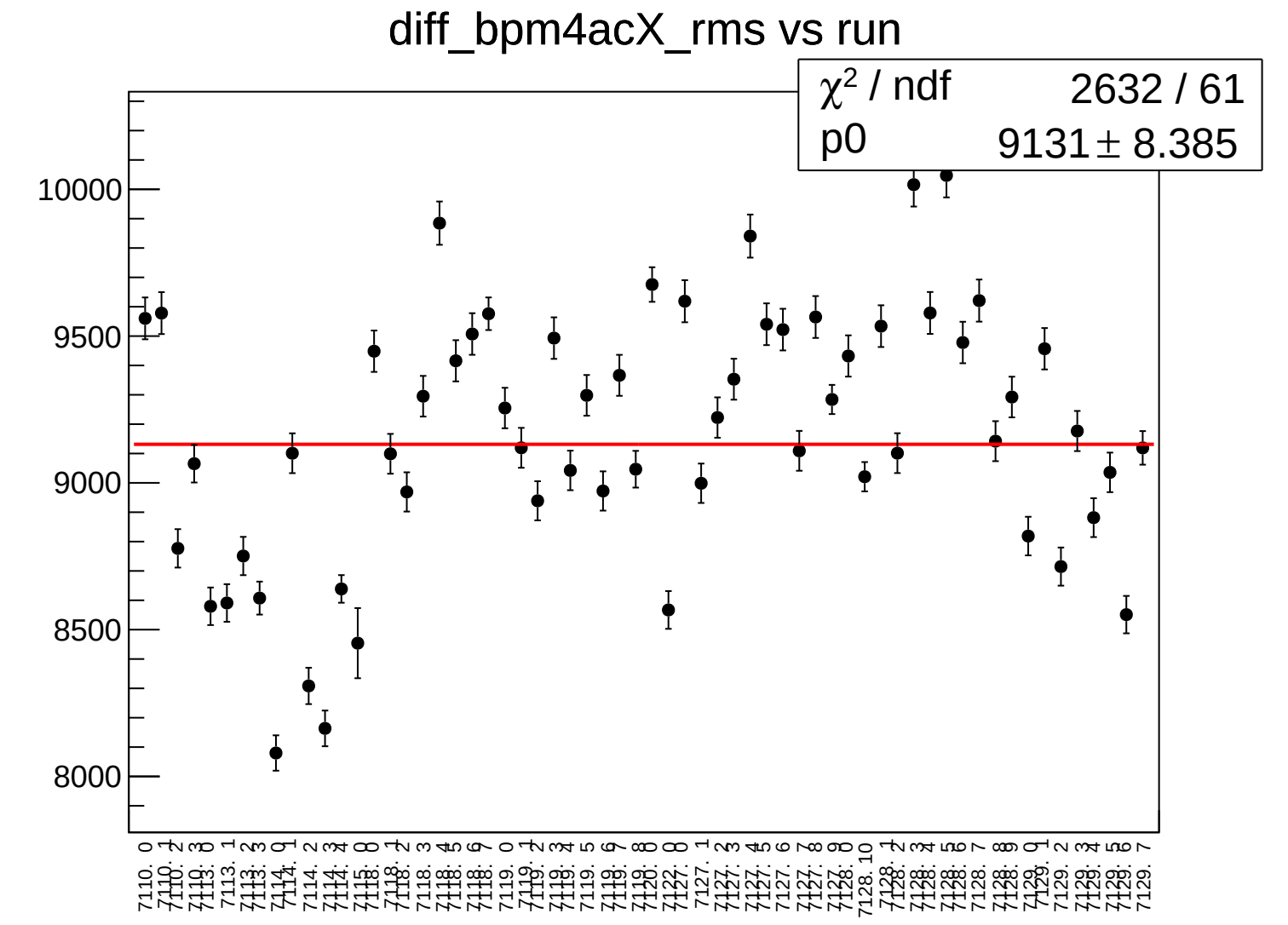

diff_bpm4eY_mean vs run
χ² / ndf 55.24 / 61
p0 8.358 ± 8.762
pull
Entries 62
Mean 29.32
Std Dev 48.41

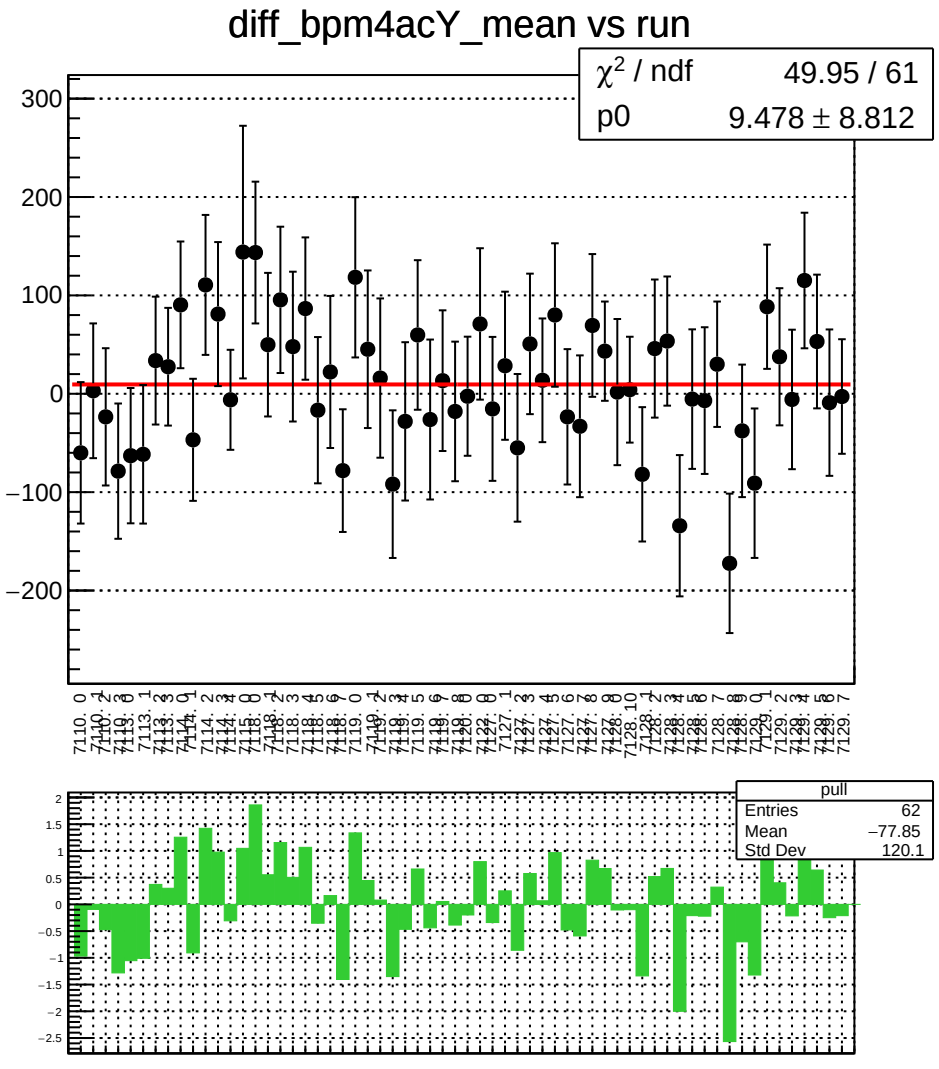

pull1D
Entries 62
Mean 0.01555
Std Dev 0.9438

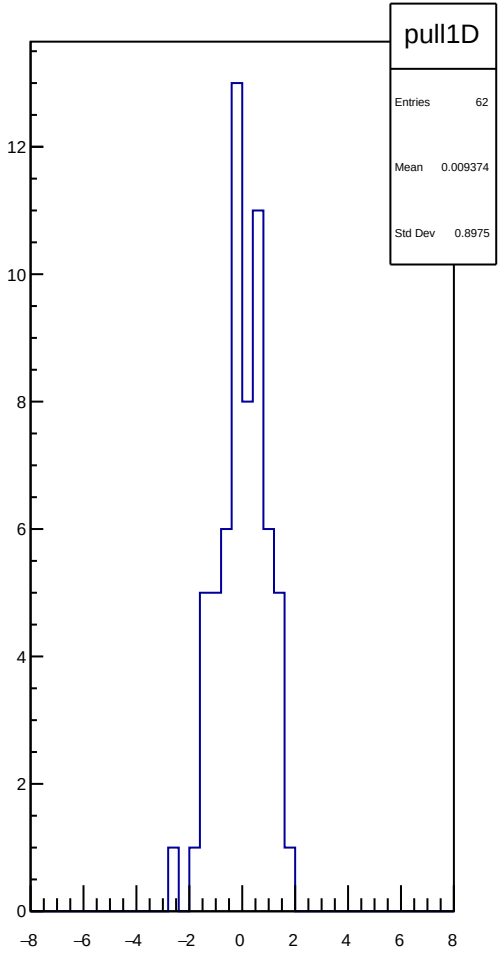

diff_bpm4eY_rms vs run
χ² / ndf 5874 / 61
p0 6737 ± 6.195
8000
7500
7000
6500
6000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 8
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

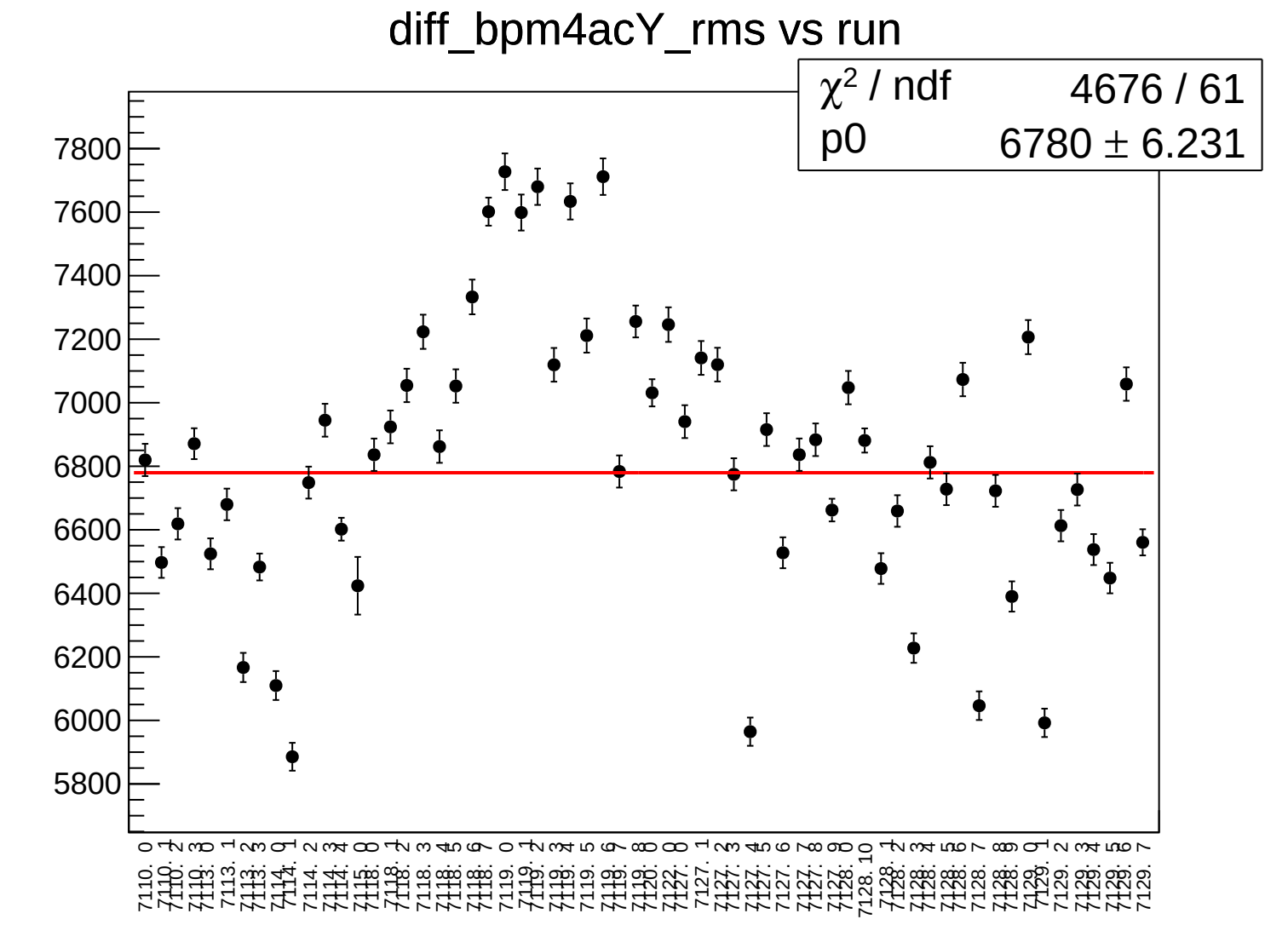

diff_bpm4acX_mean vs run
χ^2 / ndf 70.61 / 61
p0 −25.31 ± 11.86
pull
Entries 62
Mean −749.4
Std Dev 785.6

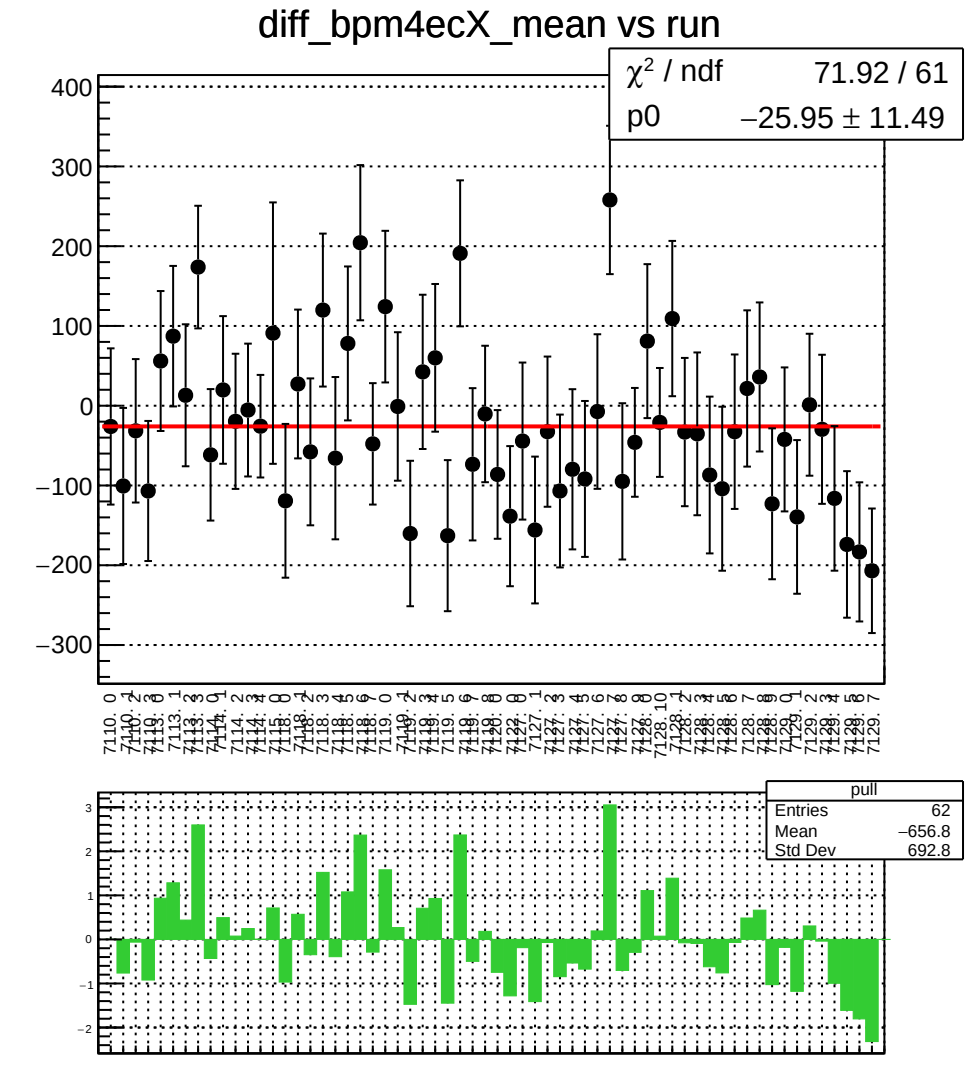

pull1D
Entries 62
Mean 0.007654
Std Dev 1.067

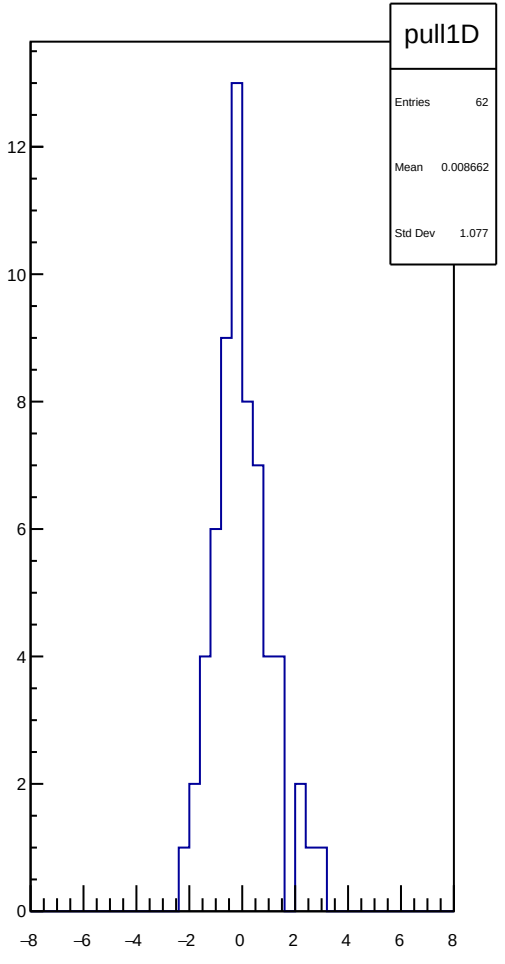

diff_bpm4acX_rms vs run
χ² / ndf 2632 / 61
p0 9131 ± 8.385
10000
9500
9000
8500
8000

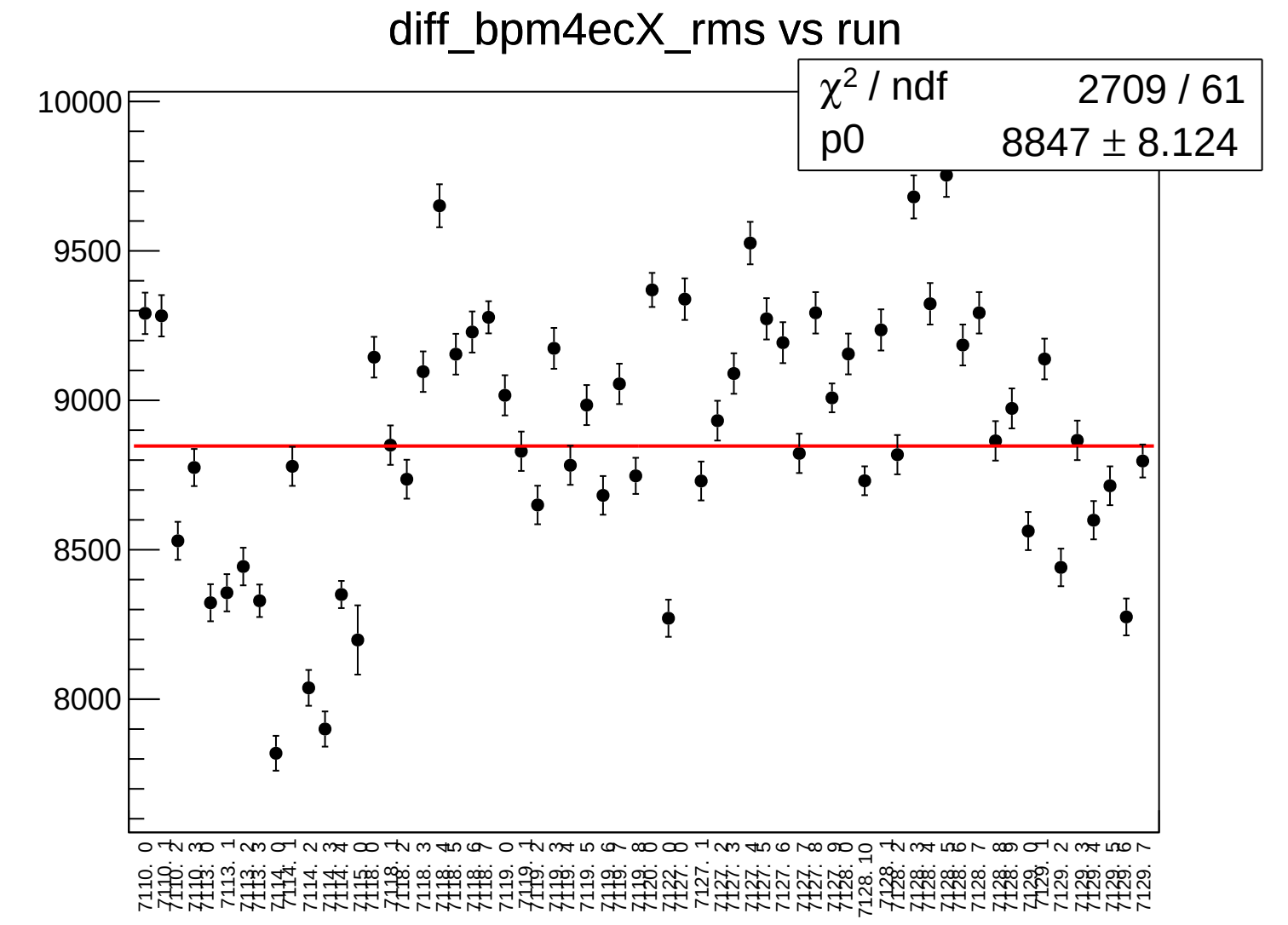

diff_bpm4acY_mean vs run
χ^2 / ndf 49.95 / 61
p0 9.478 ± 8.812
pull
Entries 62
Mean −77.85
Std Dev 120.1

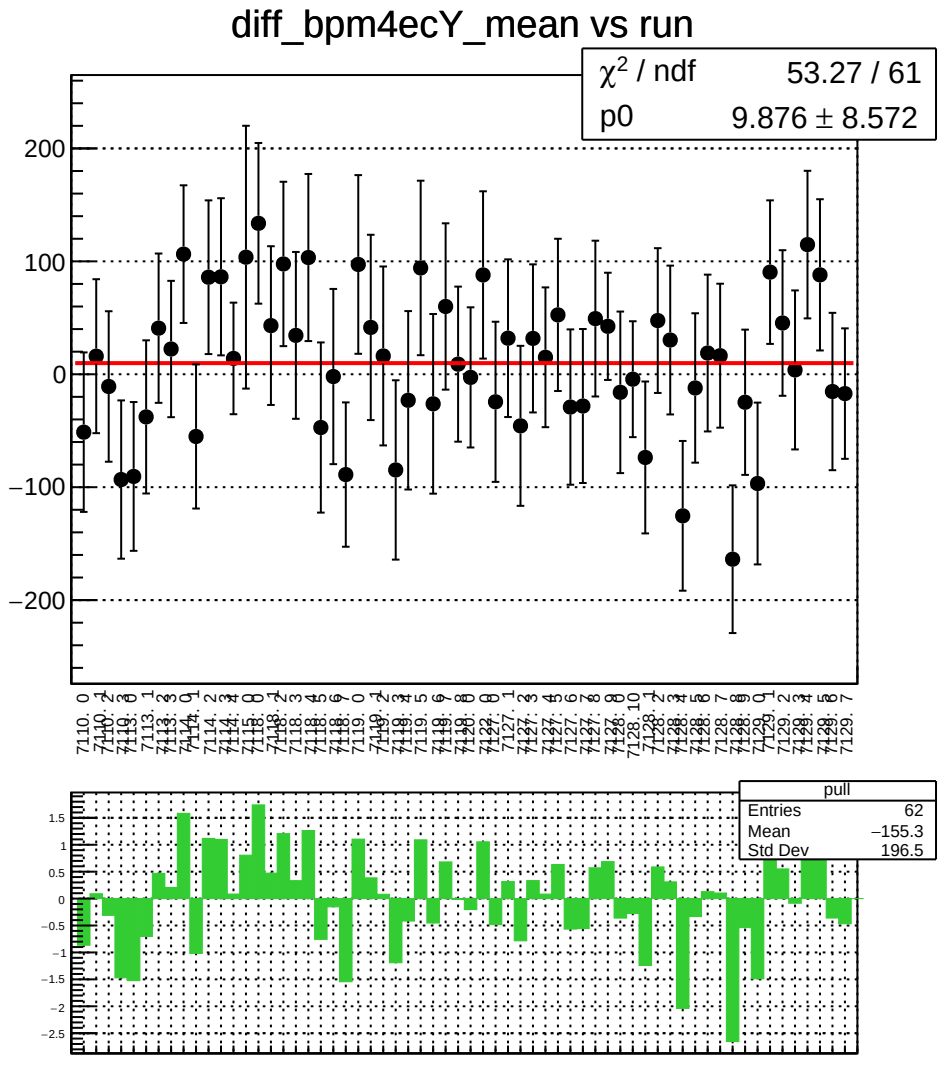

pull1D
Entries 62
Mean 0.009374
Std Dev 0.8975

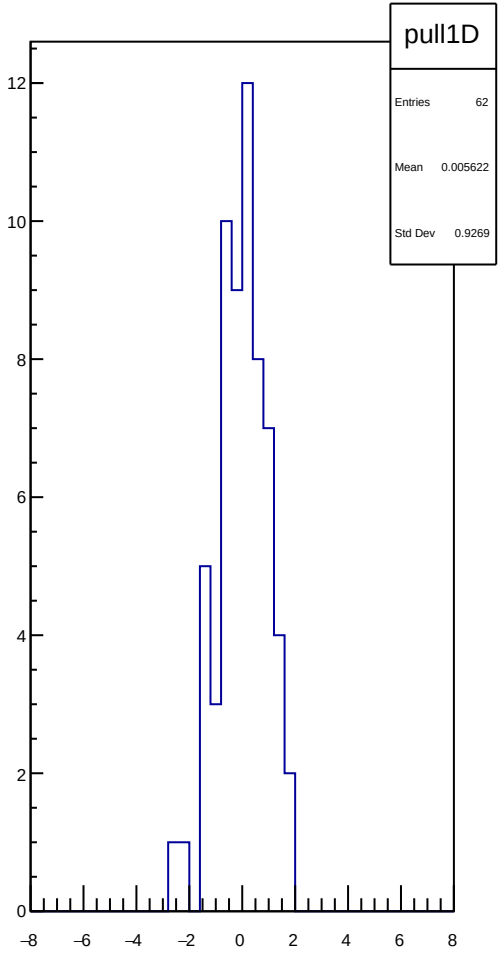

diff_bpm4acY_rms vs run
χ² / ndf 4676 / 61
p0 6780 ± 6.231
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

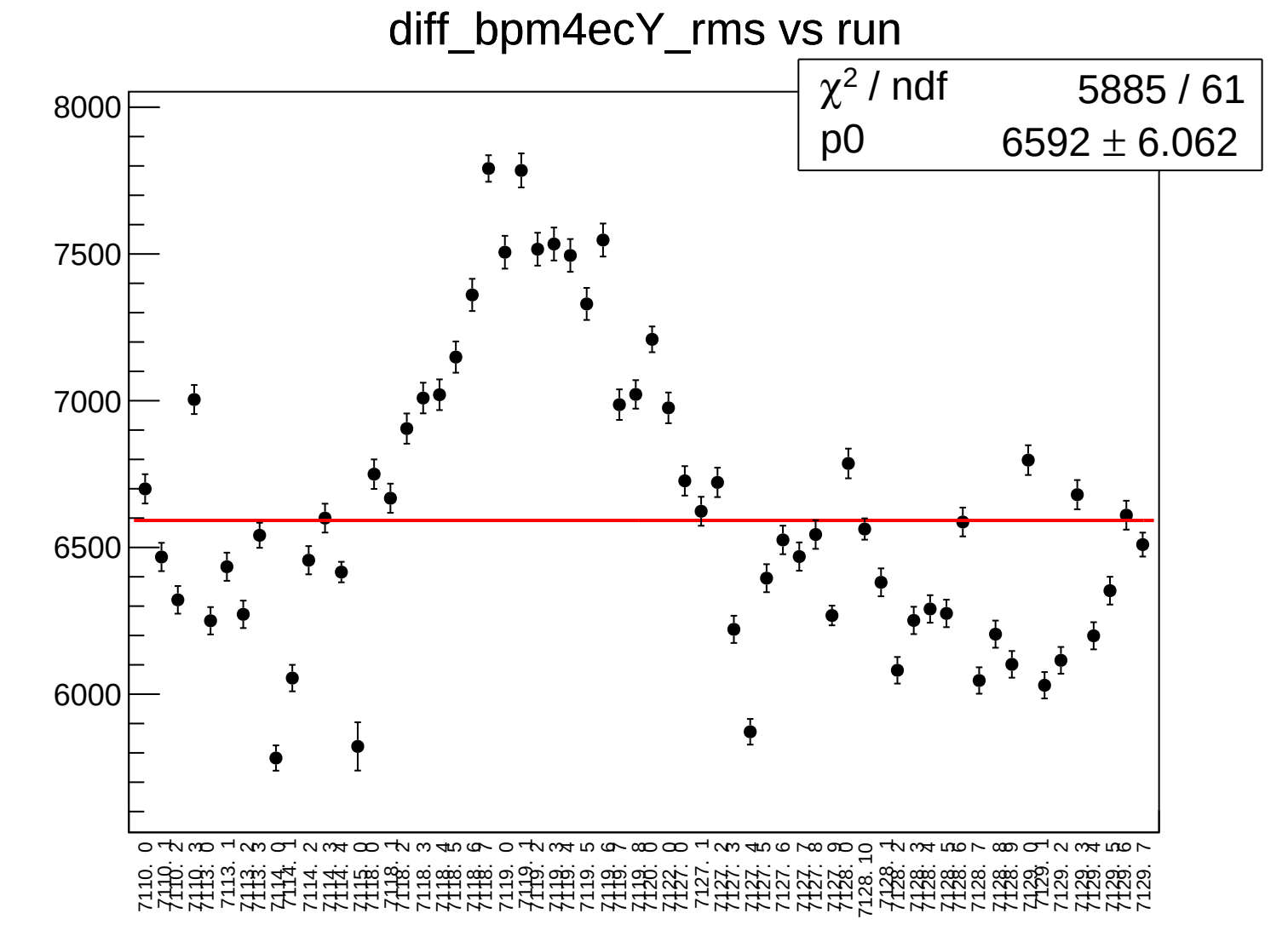

diff_bpm4ecX_mean vs run
χ^2 / ndf 71.92 / 61
p0 −25.95 ± 11.49
pull
Entries 62
Mean −656.8
Std Dev 692.8

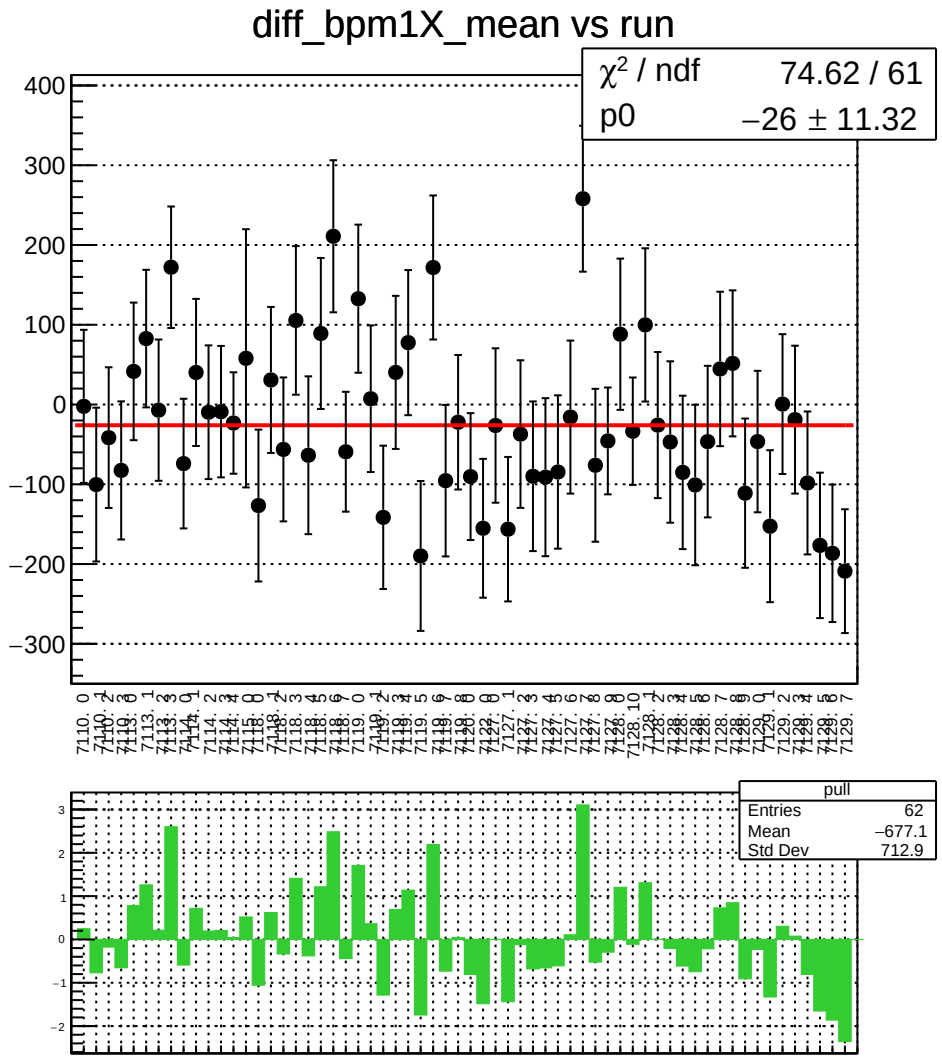

pull1D
Entries 62
Mean 0.008662
Std Dev 1.077

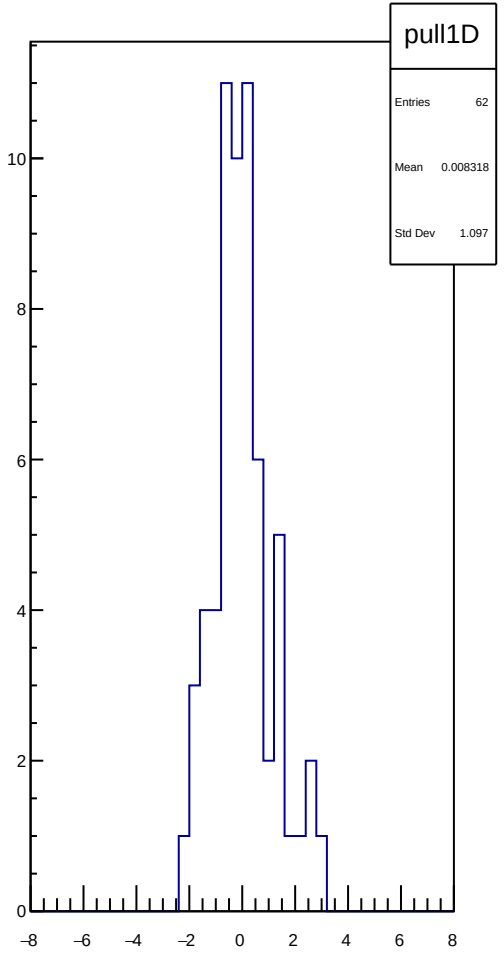

diff_bpm4ecX_rms vs run
χ² / ndf 2709 / 61
p0 8847 ± 8.124
10000
9500
9000
8500
8000

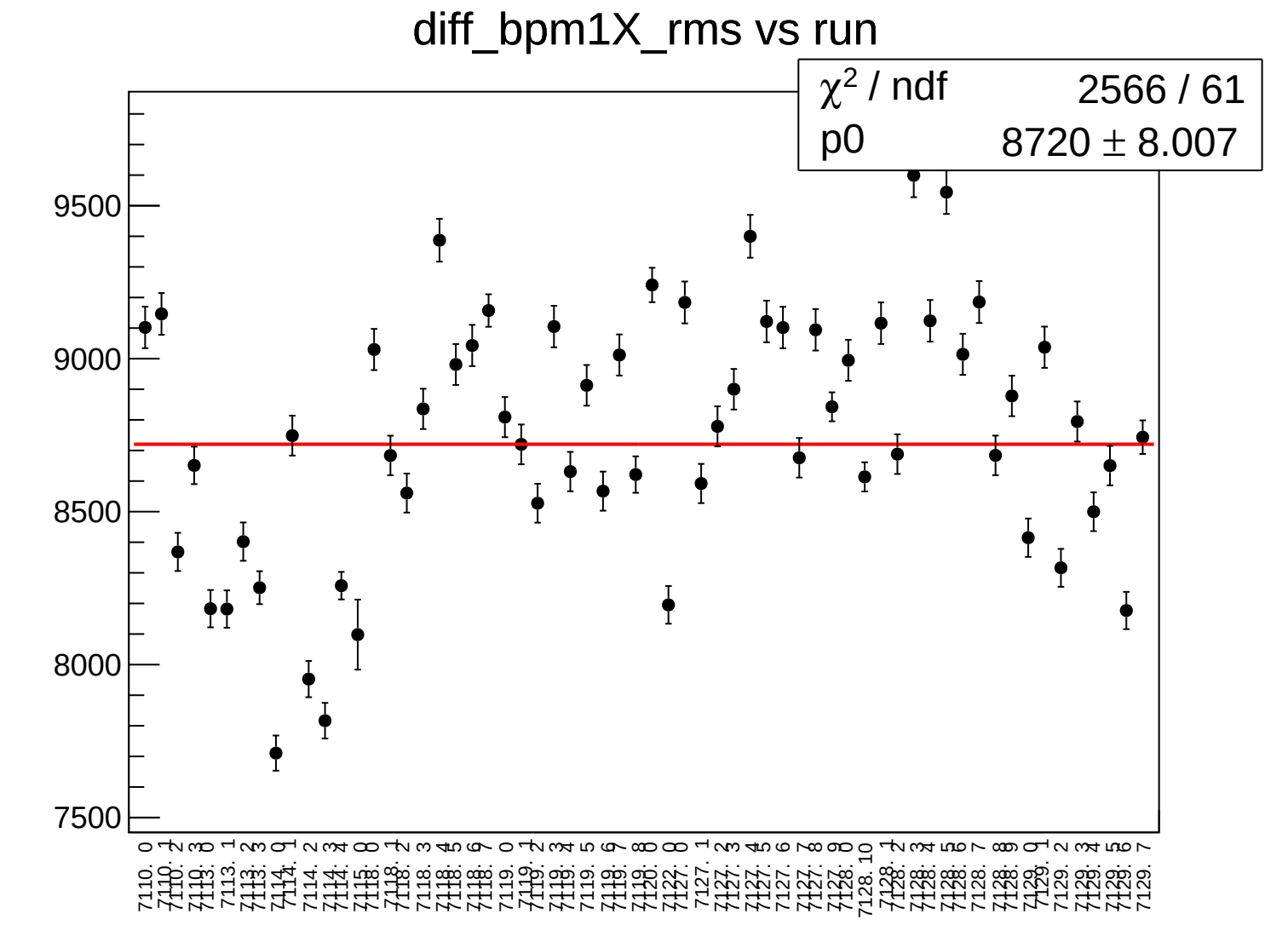

diff_bpm4ecY_mean vs run
χ² / ndf 53.27 / 61
p0 9.876 ± 8.572
pull
Entries 62
Mean −155.3
Std Dev 196.5

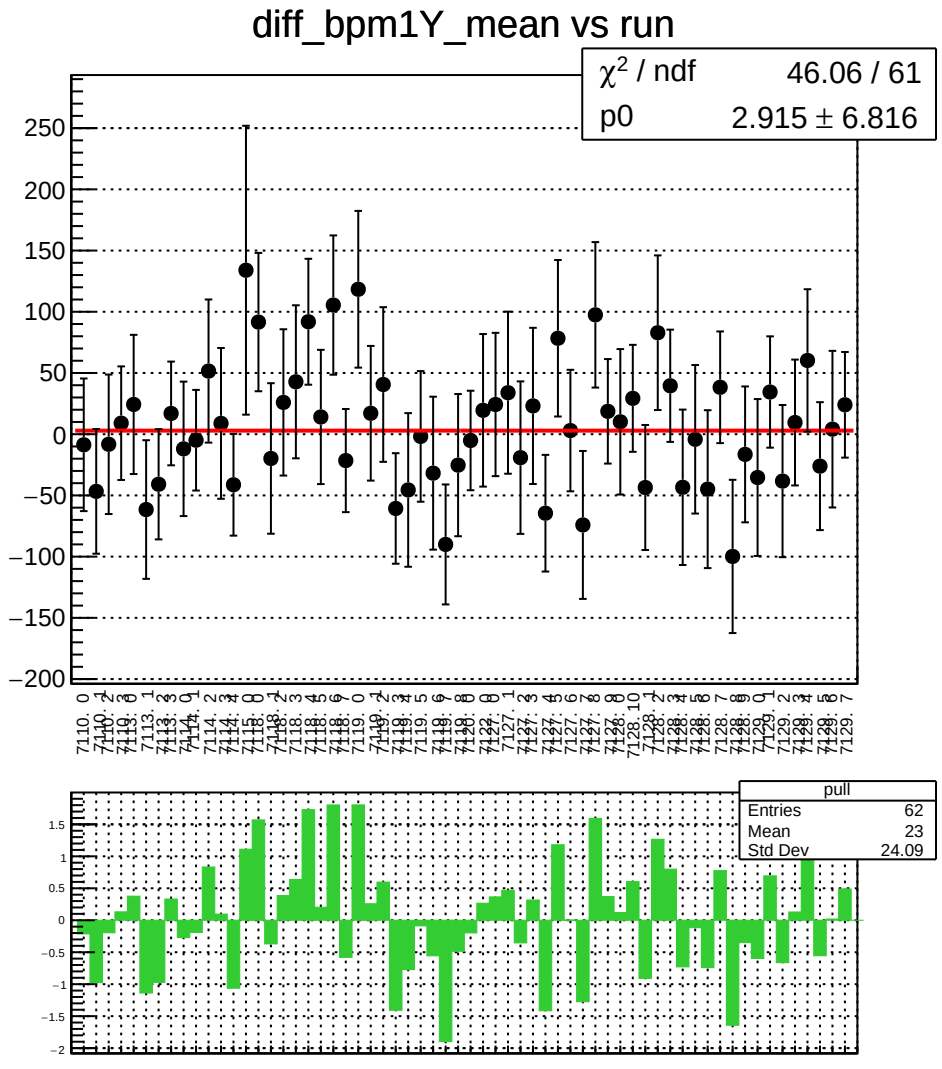

pull1D
Entries 62
Mean 0.005622
Std Dev 0.9269

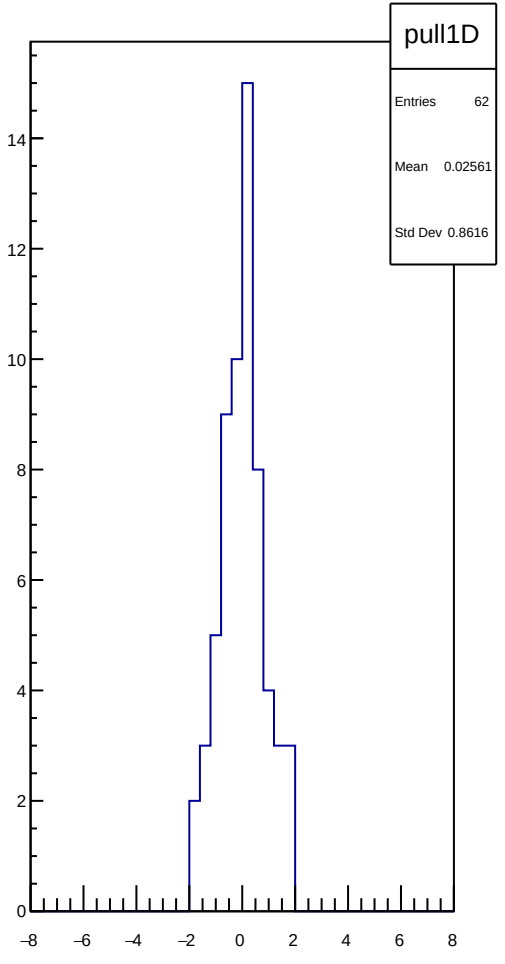

diff_bpm4ecY_rms vs run
χ² / ndf 5885 / 61
p0 6592 ± 6.062
8000
7500
7000
6500
6000
7110. 0
7110. 1
7110. 2
7110. 3
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 8
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

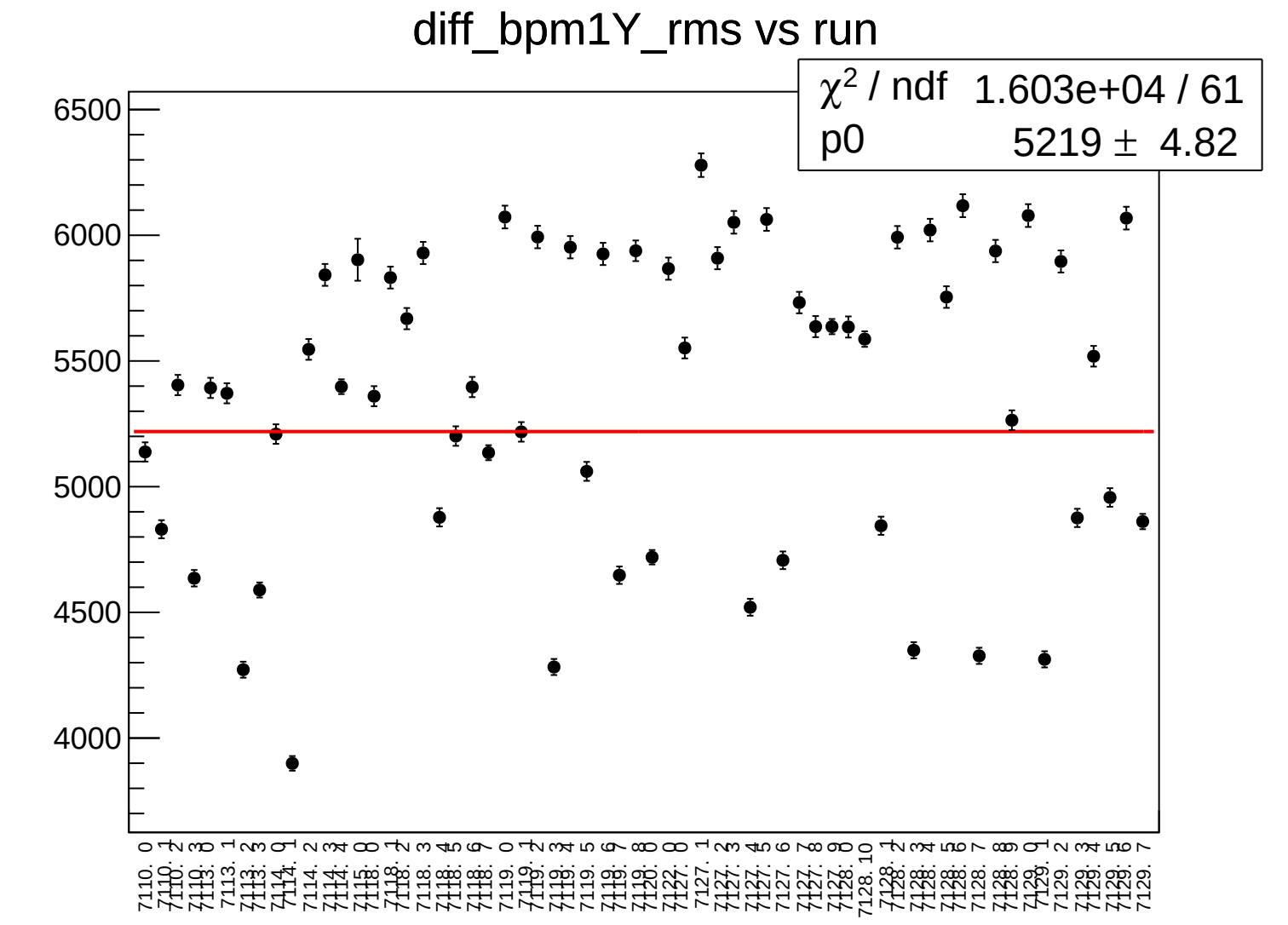

diff_bpm1X_mean vs run
χ² / ndf 74.62 / 61
p0 −26 ± 11.32
pull
Entries 62
Mean −677.1
Std Dev 712.9

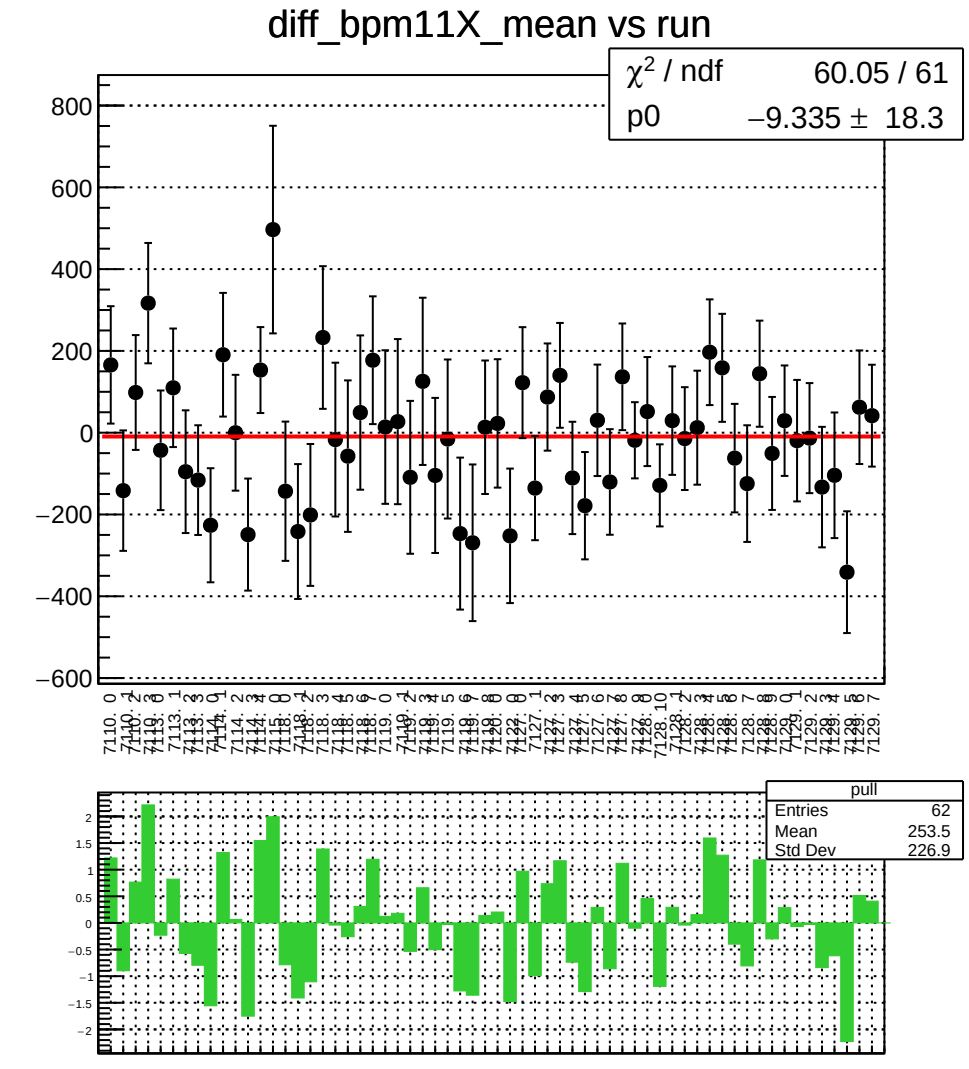

pull1D
Entries 62
Mean 0.008318
Std Dev 1.097

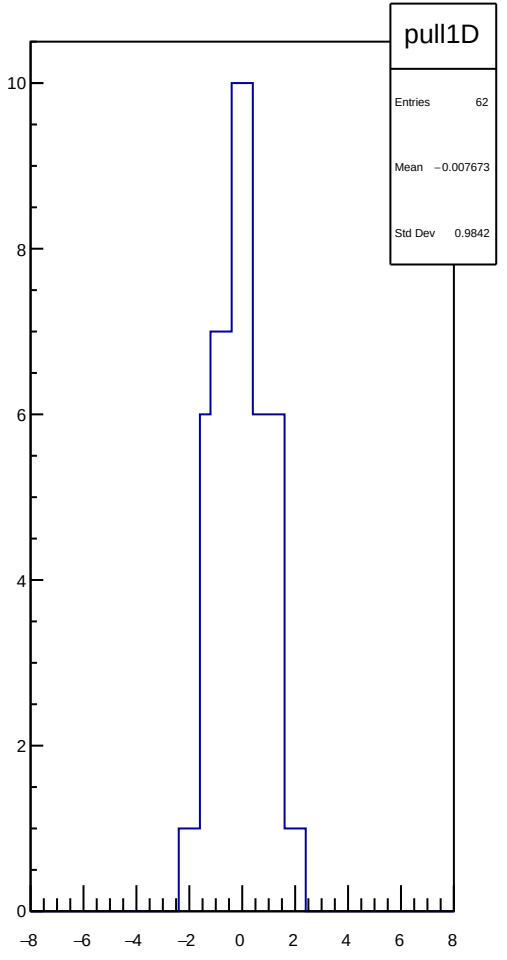

diff_bpm1X_rms vs run
χ² / ndf 2566 / 61
p0 8720 ± 8.007
9500
9000
8500
8000
7500
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

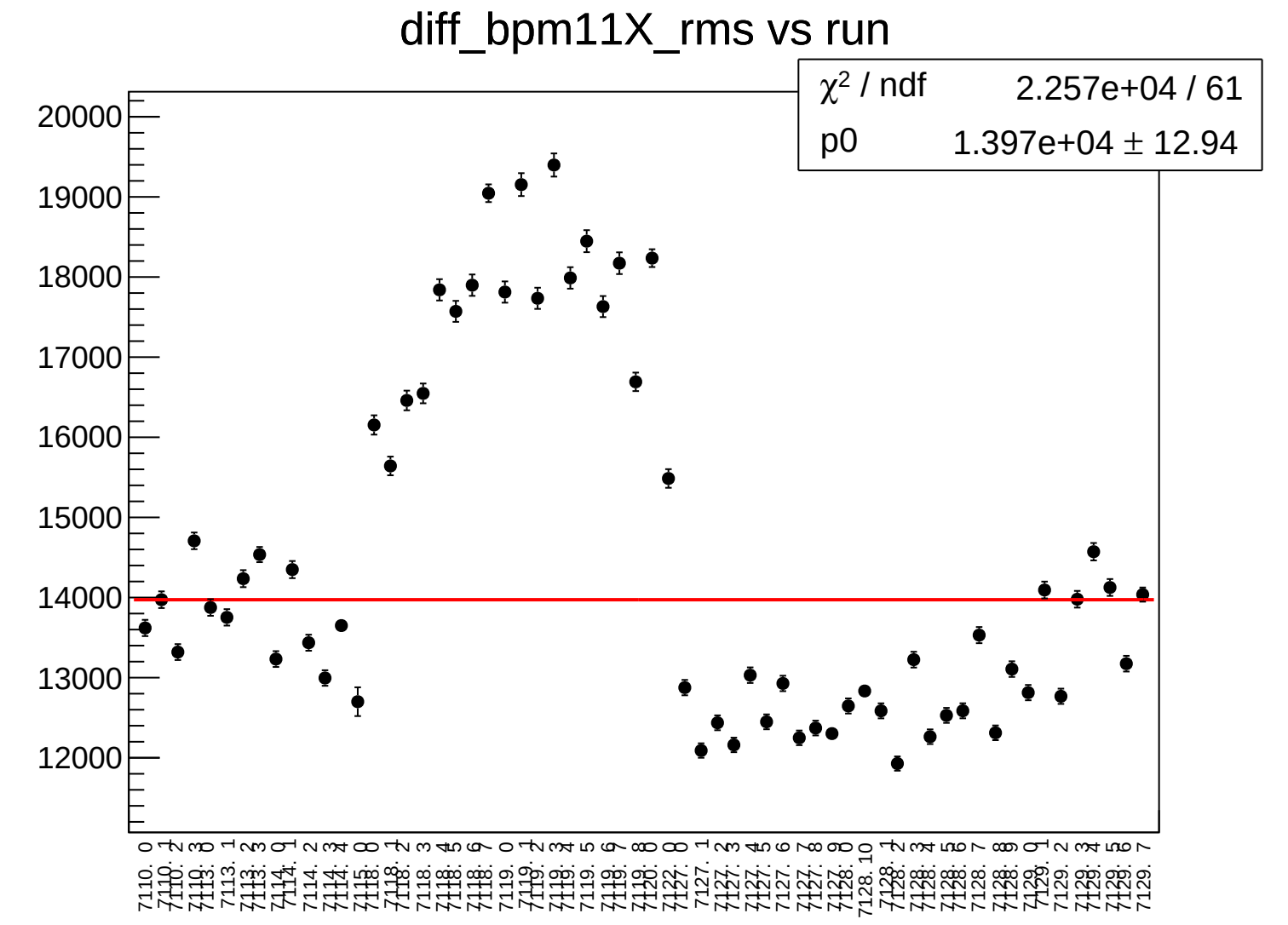

diff_bpm1Y_mean vs run
χ^2 / ndf 46.06 / 61
p0 2.915 ± 6.816
pull
Entries 62
Mean 23
Std Dev 24.09

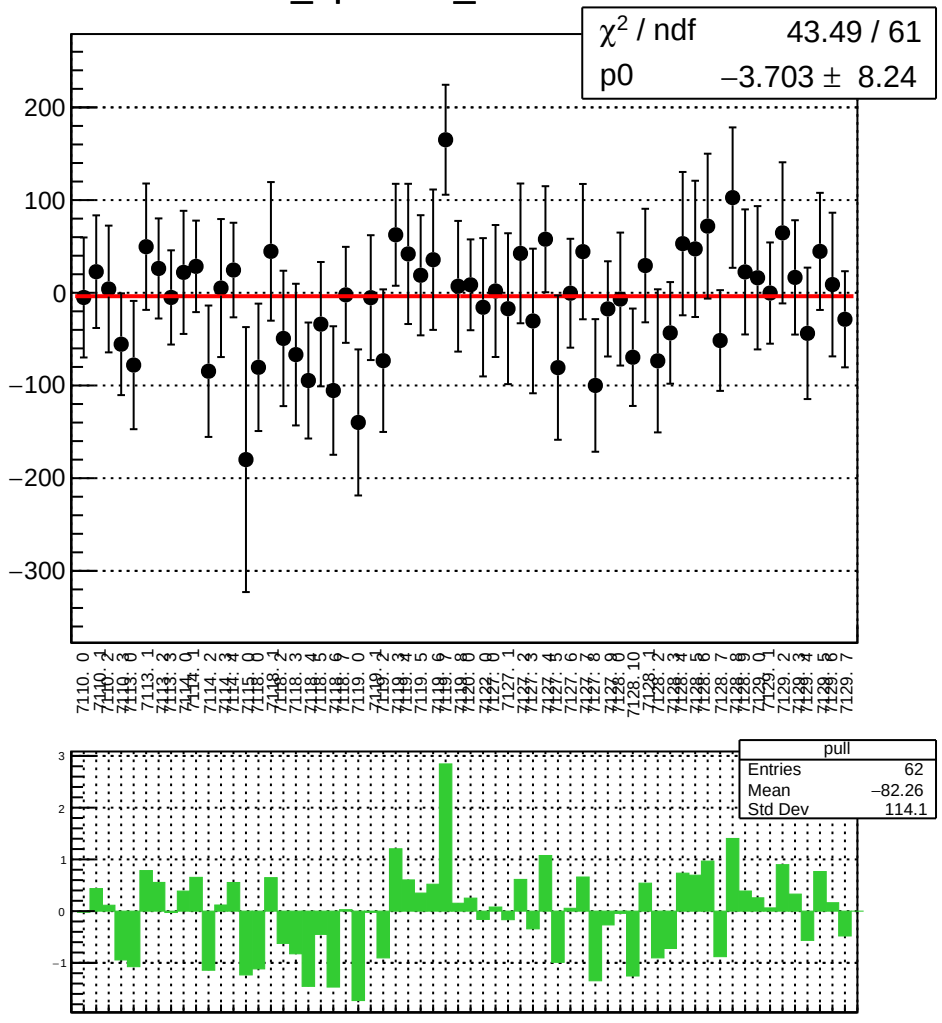

pull1D
Entries 62
Mean 0.02561
Std Dev 0.8616

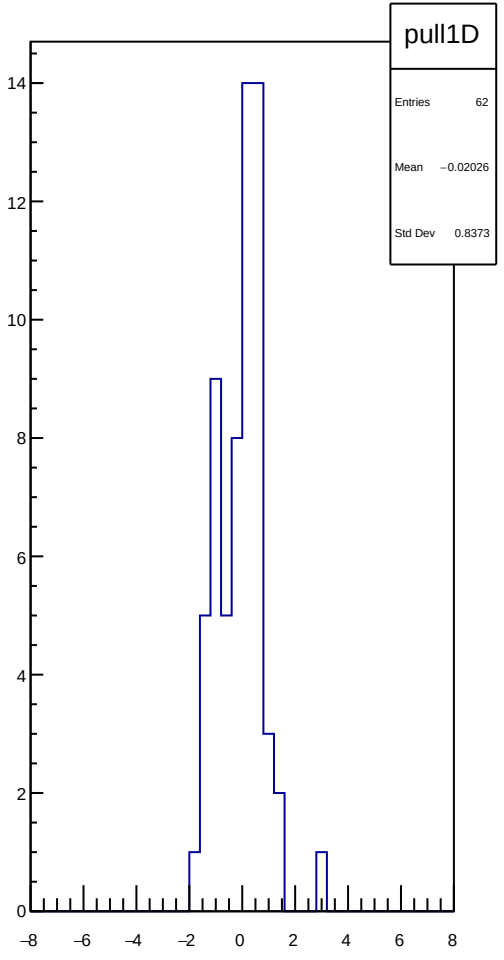

diff_bpm1Y_rms vs run
χ² / ndf 1.603e+04 / 61
p0 5219 ± 4.82
6500
6000
5500
5000
4500
4000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

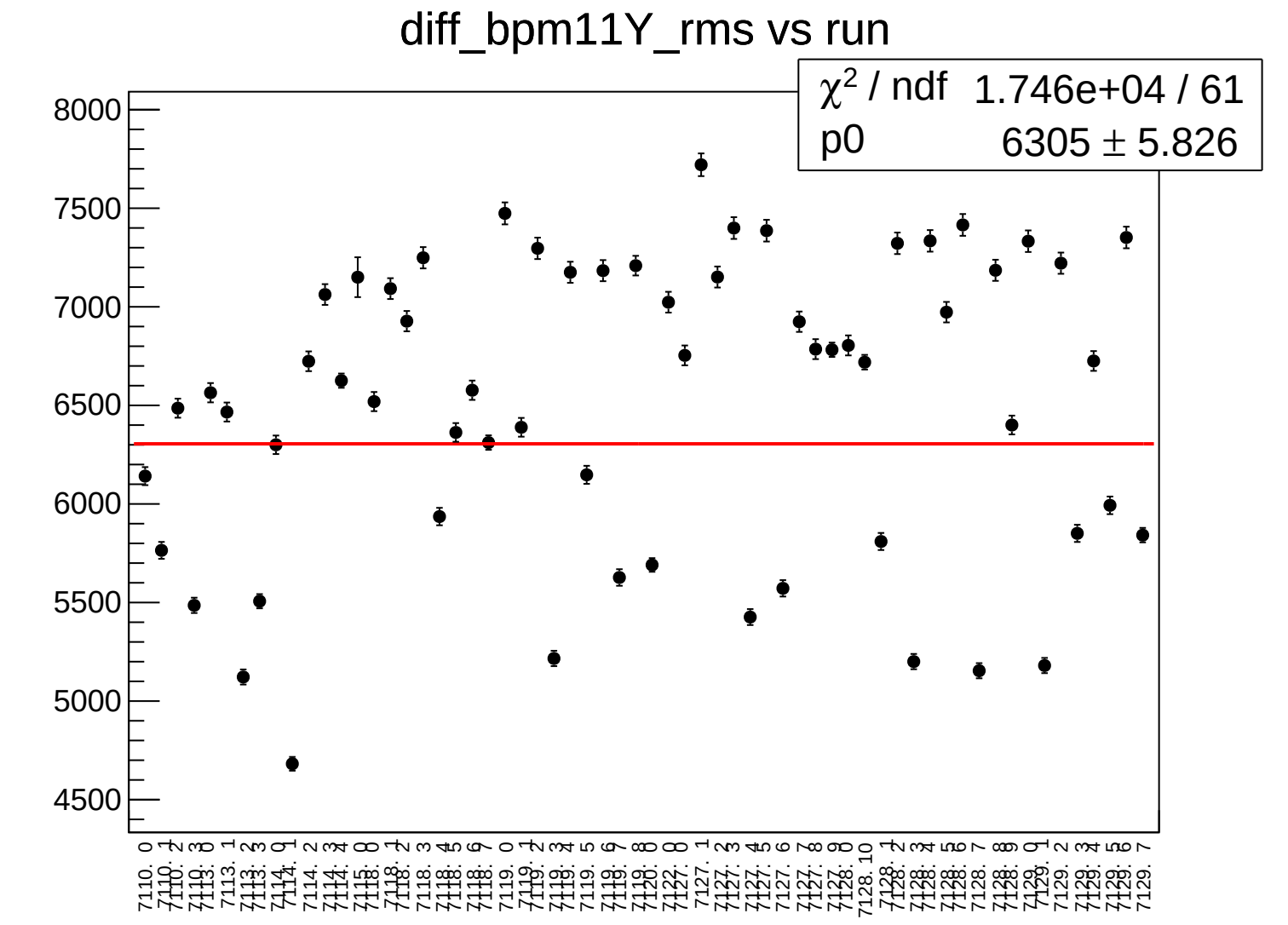

diff_bpm11X_mean vs run
χ² / ndf 60.05 / 61
p0 −9.335 ± 18.3
pull
Entries 62
Mean 253.5
Std Dev 226.9

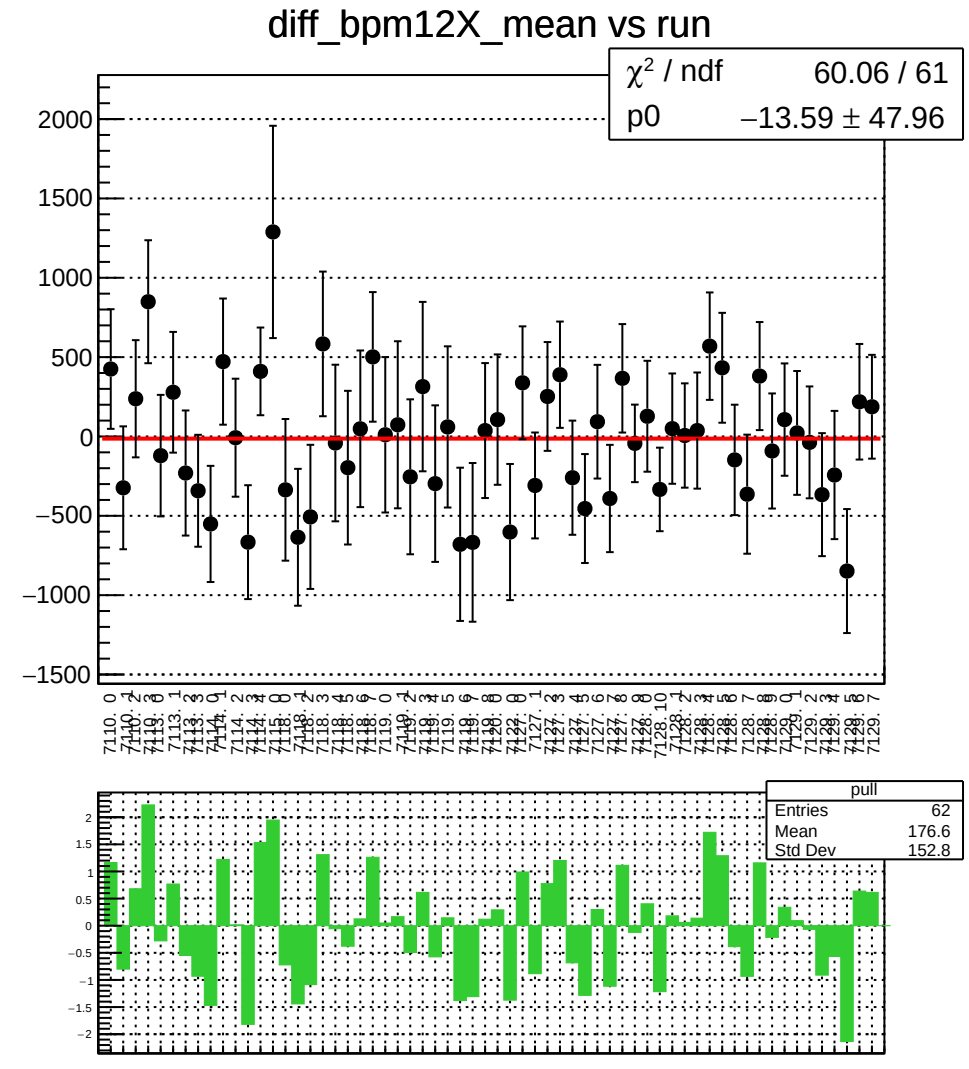

pull1D
Entries 62
Mean −0.007673
Std Dev 0.9842

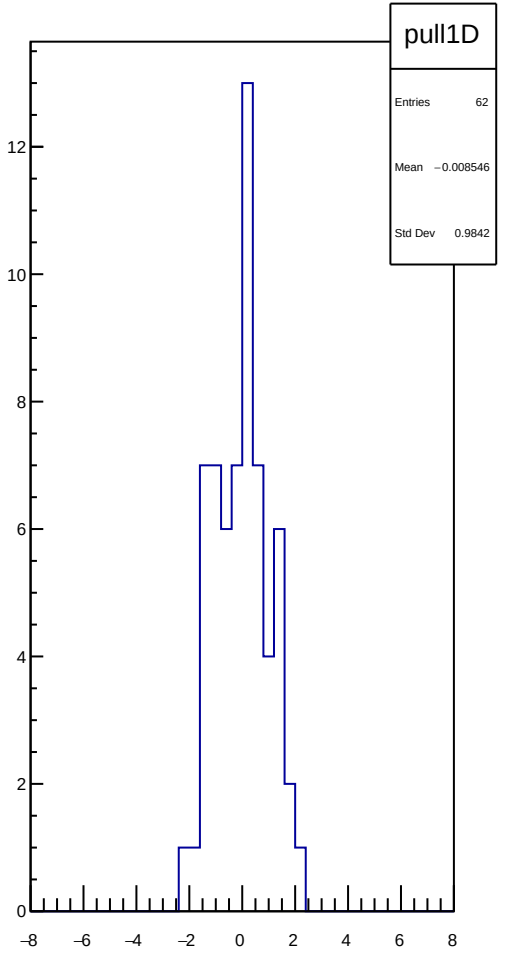

diff_bpm11X_rms vs run
χ² / ndf 2.257e+04 / 61
p0 1.397e+04 ± 12.94
20000
19000
18000
17000
16000
15000
14000
13000
12000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

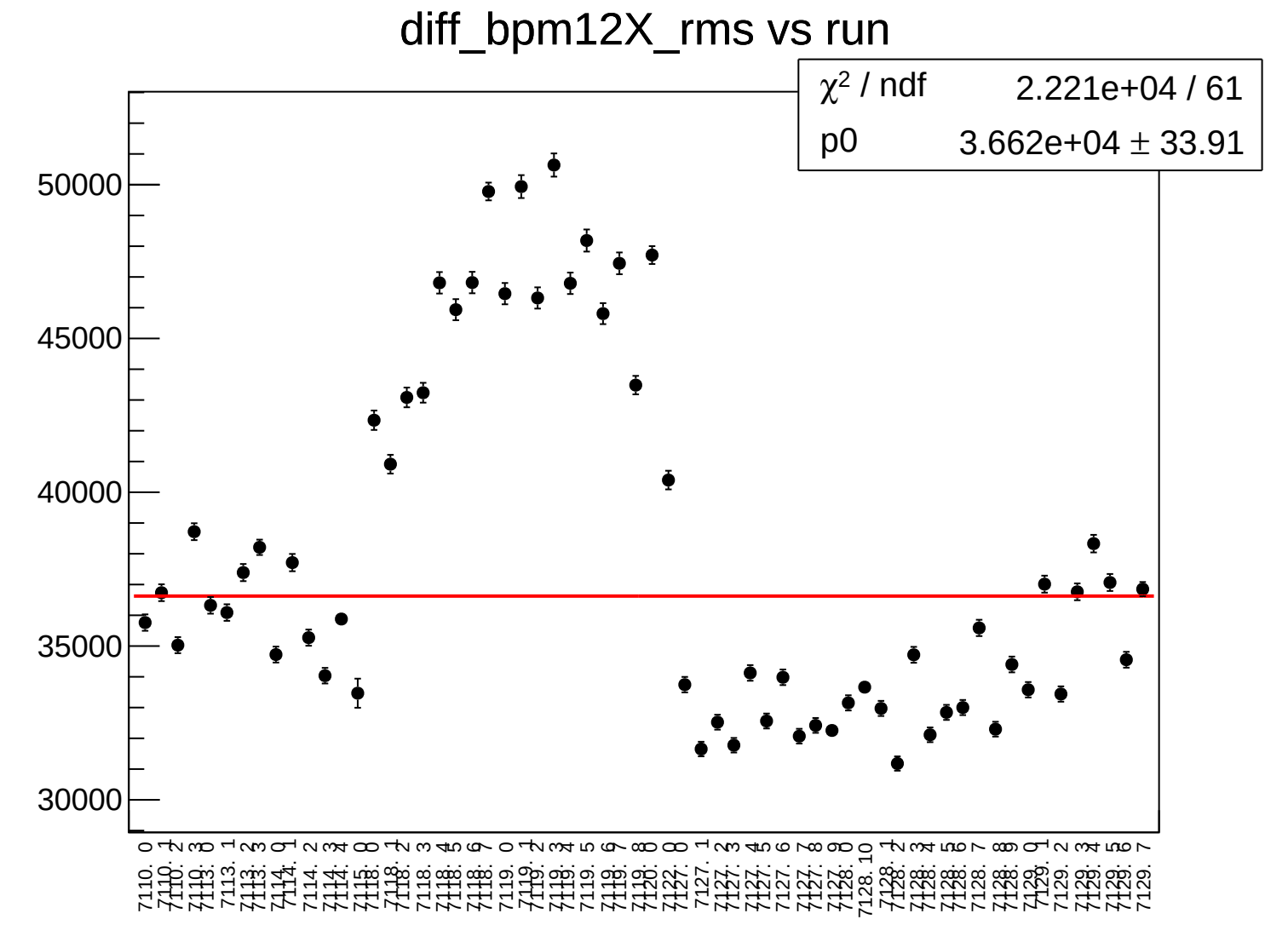

diff_bpm11Y_mean vs run
χ² / ndf 43.49 / 61
p0 −3.703 ± 8.24
pull
Entries 62
Mean −82.26
Std Dev 114.1

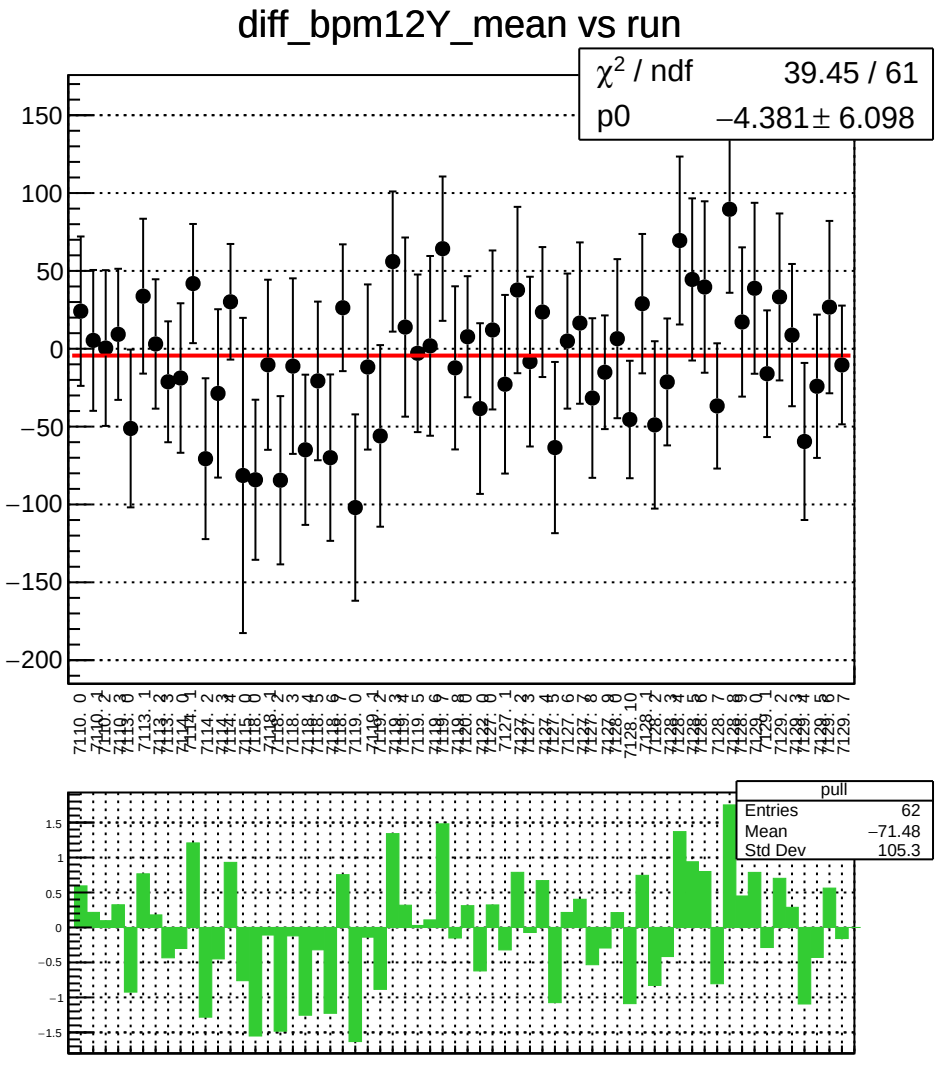

pull1D
Entries 62
Mean −0.02026
Std Dev 0.8373

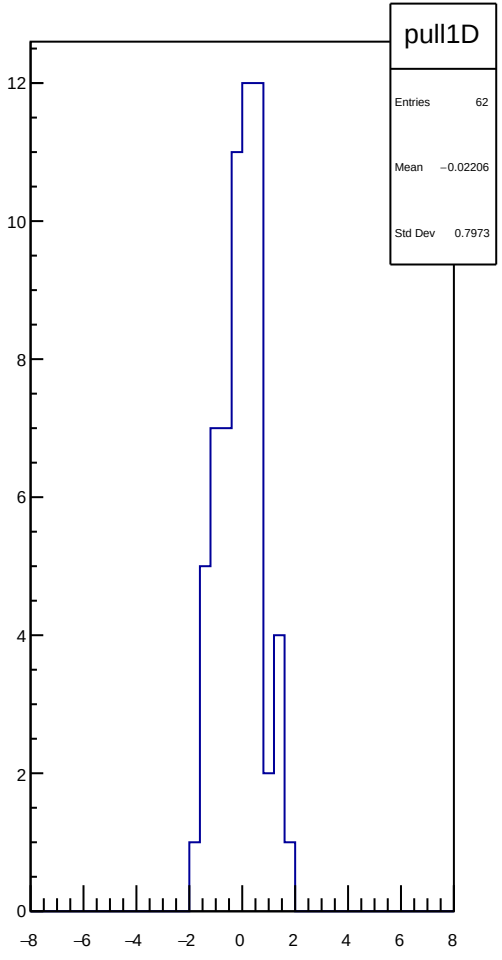

diff_bpm11Y_rms vs run
χ² / ndf 1.746e+04 / 61
p0 6305 ± 5.826
8000
7500
7000
6500
6000
5500
5000
4500
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

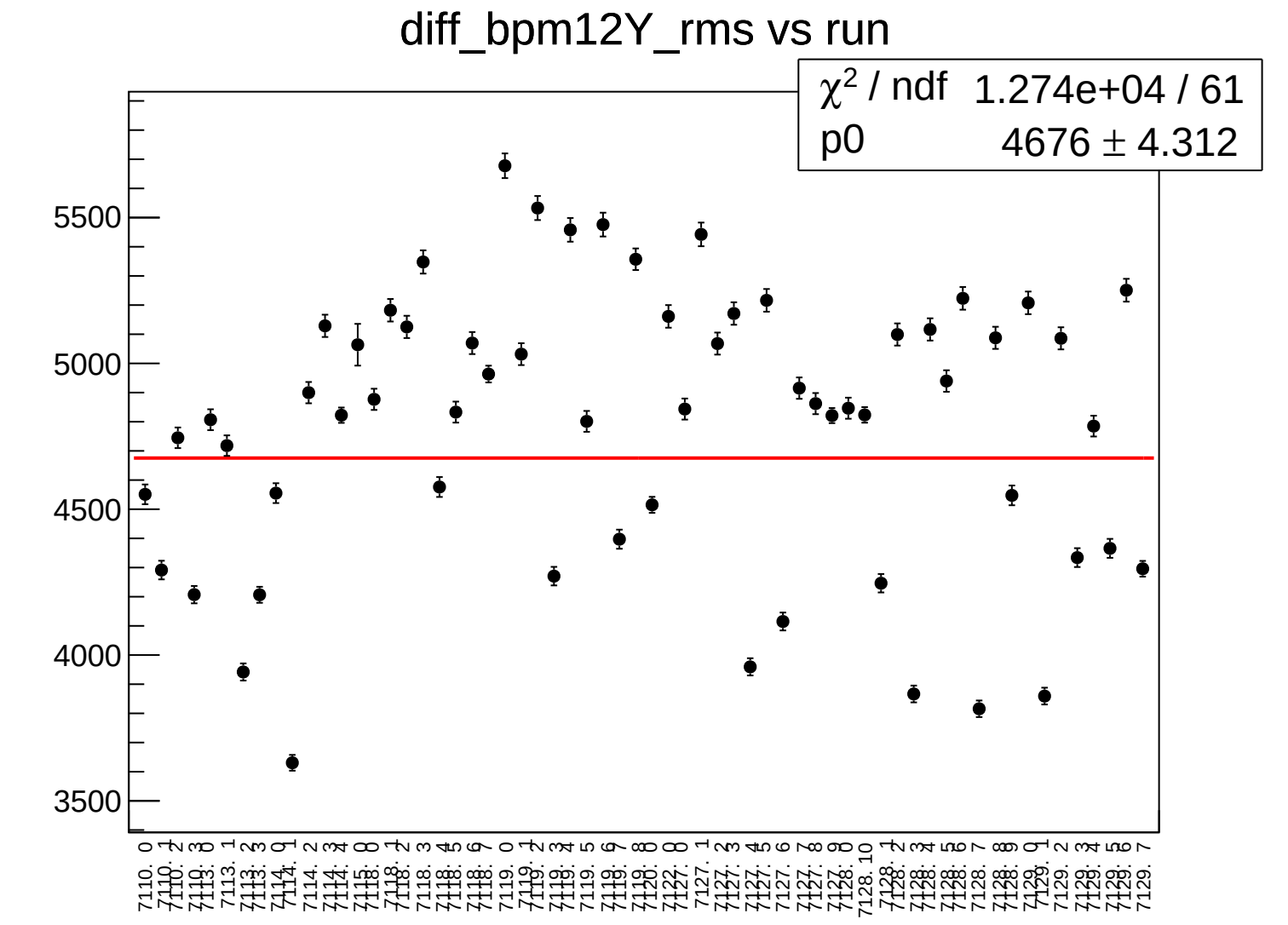

diff_bpm12X_mean vs run
χ² / ndf 60.06 / 61
p0 −13.59 ± 47.96
pull
Entries 62
Mean 176.6
Std Dev 152.8

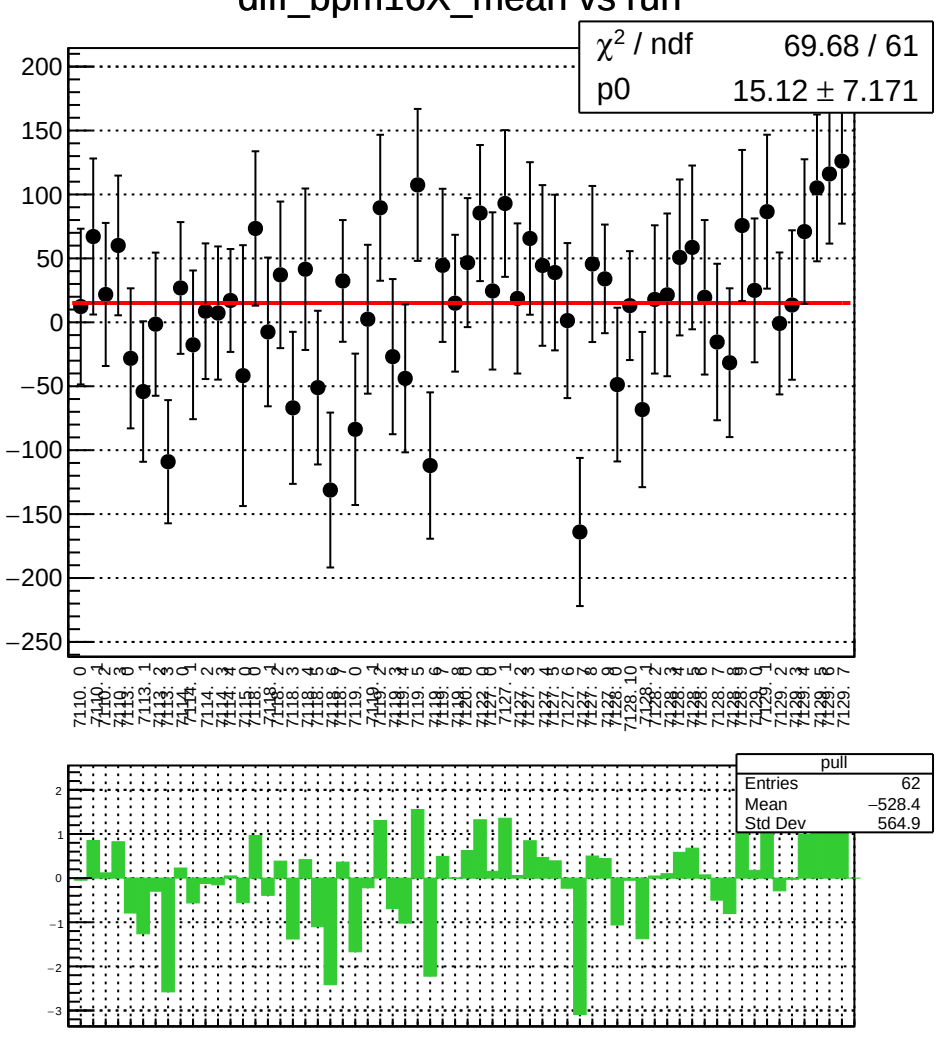

pull1D
Entries 62
Mean −0.008546
Std Dev 0.9842

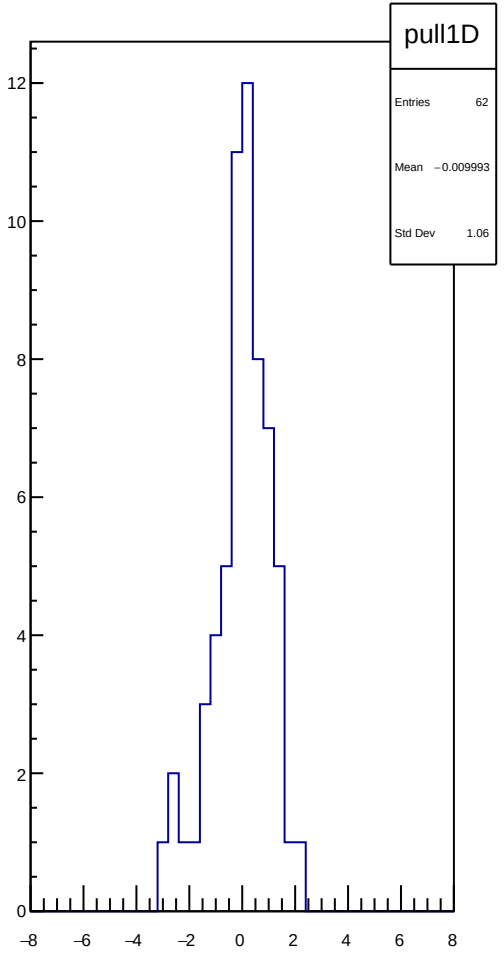

diff_bpm12X_rms vs run
χ² / ndf 2.221e+04 / 61
p0 3.662e+04 ± 33.91
50000
45000
40000
35000
30000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

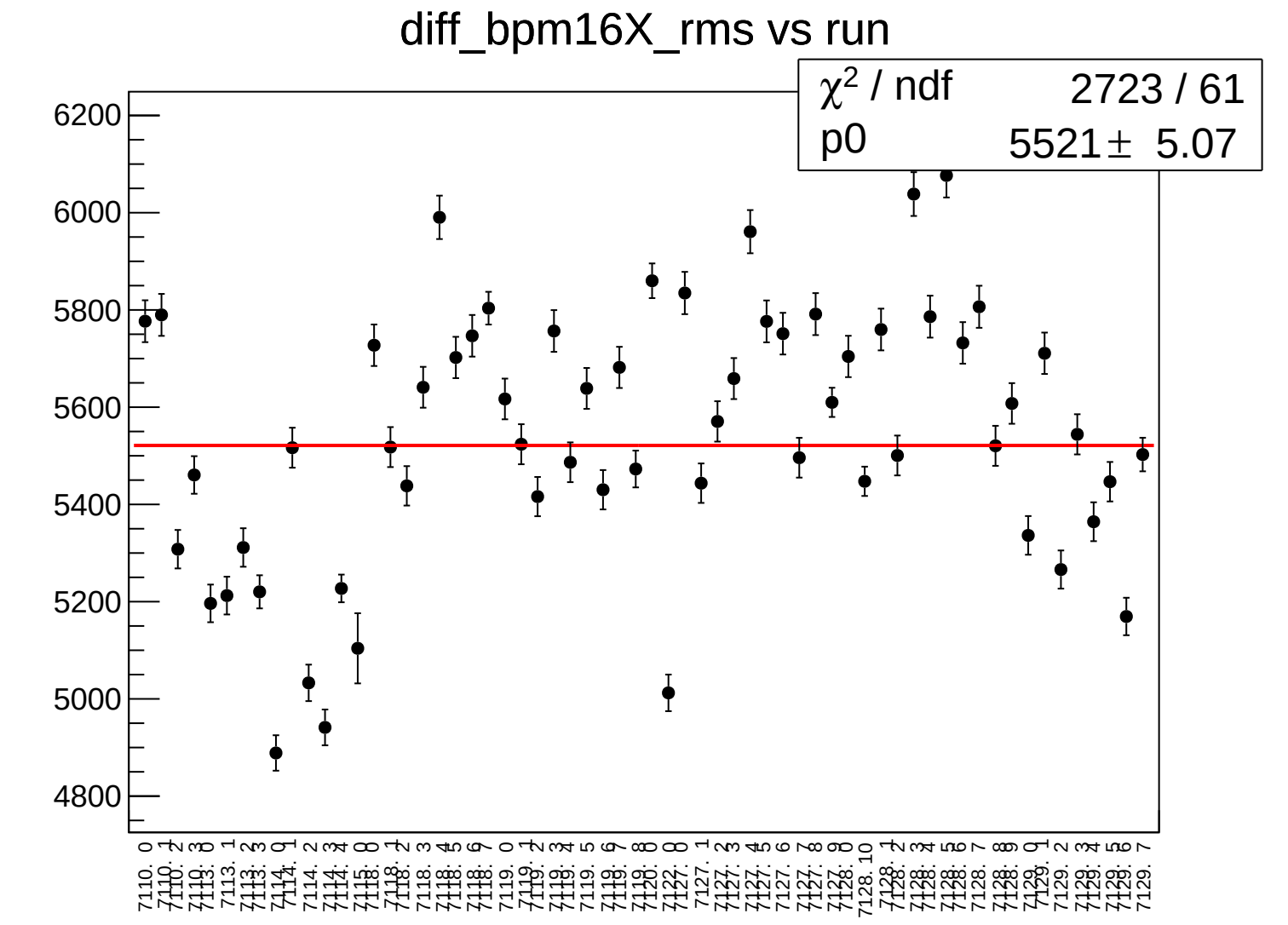

diff_bpm12Y_mean vs run
χ² / ndf 39.45 / 61
p0 −4.381 ± 6.098
pull
Entries 62
Mean −71.48
Std Dev 105.3

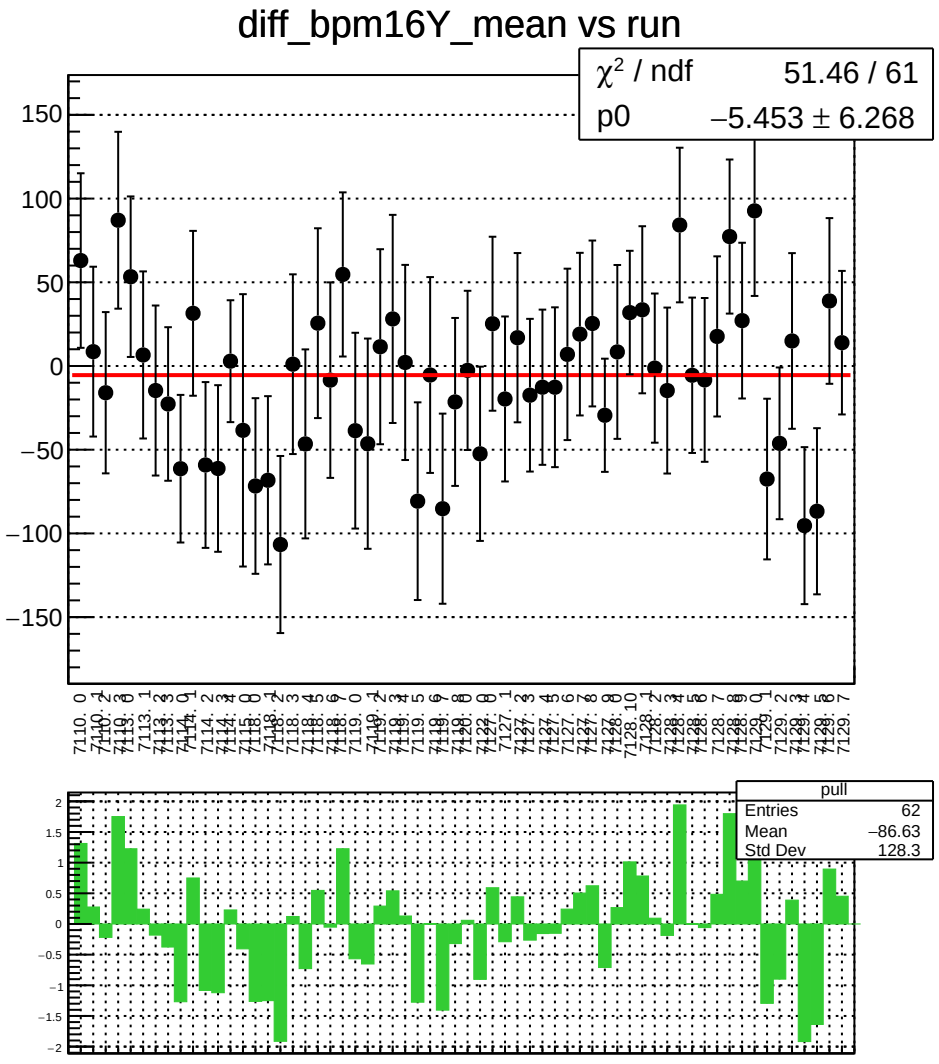

pull1D
Entries 62
Mean −0.02206
Std Dev 0.7973

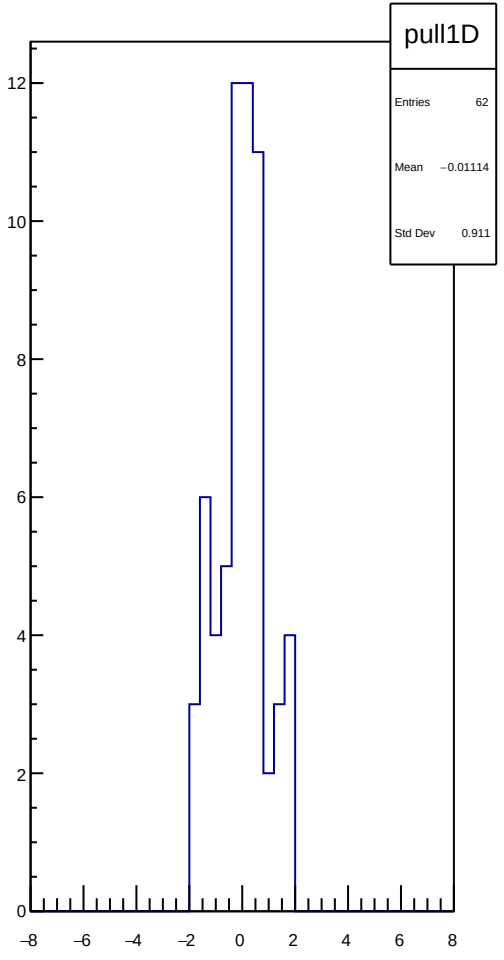

diff_bpm12Y_rms vs run
χ² / ndf 1.274e+04 / 61
p0 4676 ± 4.312
5500
5000
4500
4000
3500
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

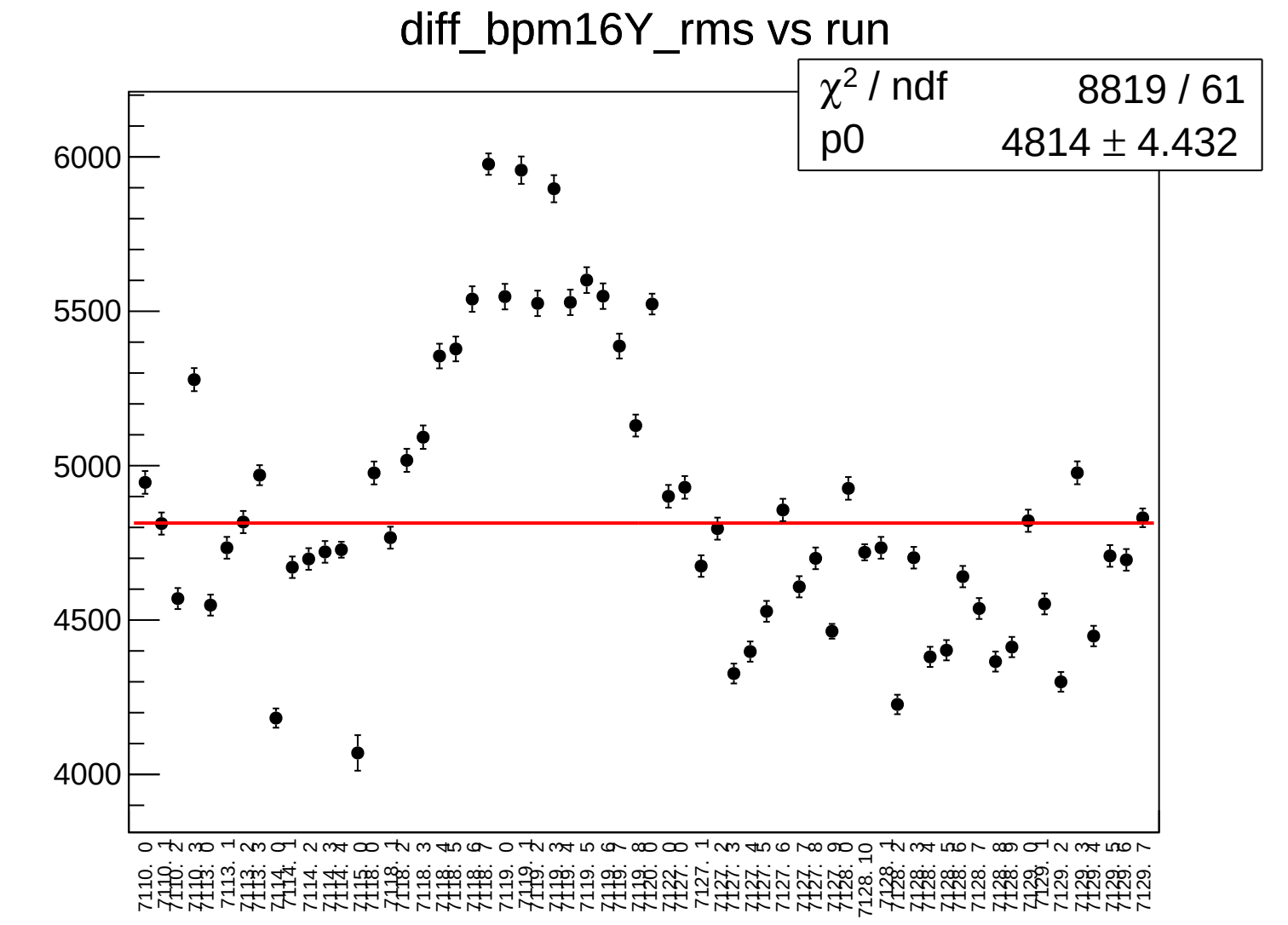

diff_bpm16X_mean vs run
χ^2 / ndf 69.68 / 61
p0 15.12 ± 7.171
pull
Entries 62
Mean −528.4
Std Dev 564.9

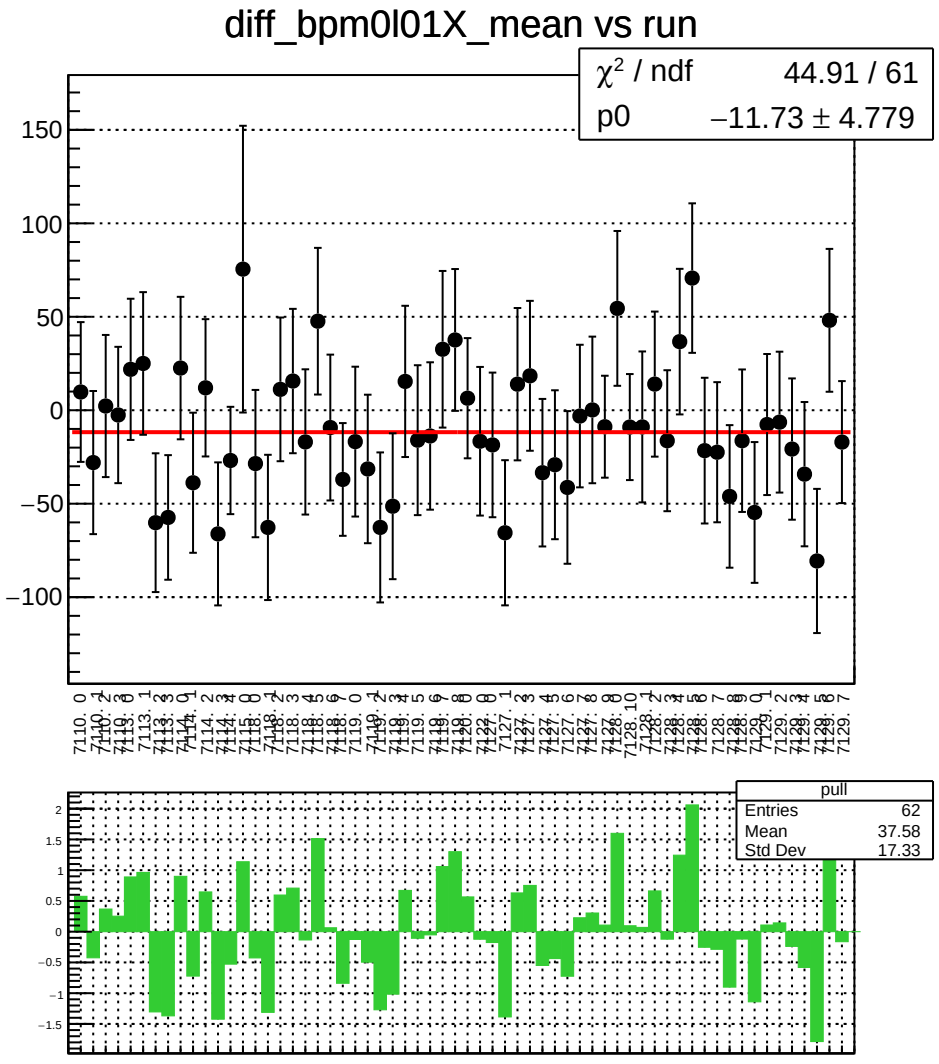

pull1D
Entries 62
Mean −0.009993
Std Dev 1.06

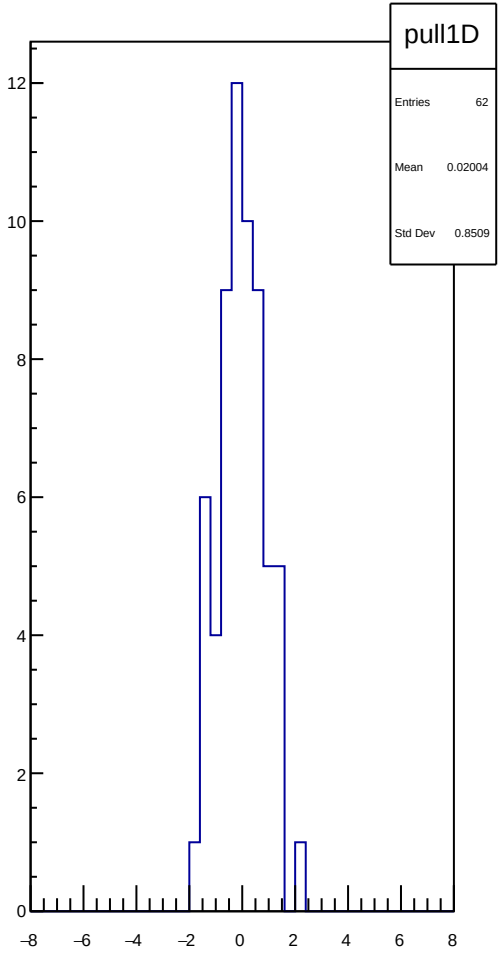

diff_bpm16X_rms vs run
χ² / ndf 2723 / 61
p0 5521 ± 5.07
6200
6000
5800
5600
5400
5200
5000
4800

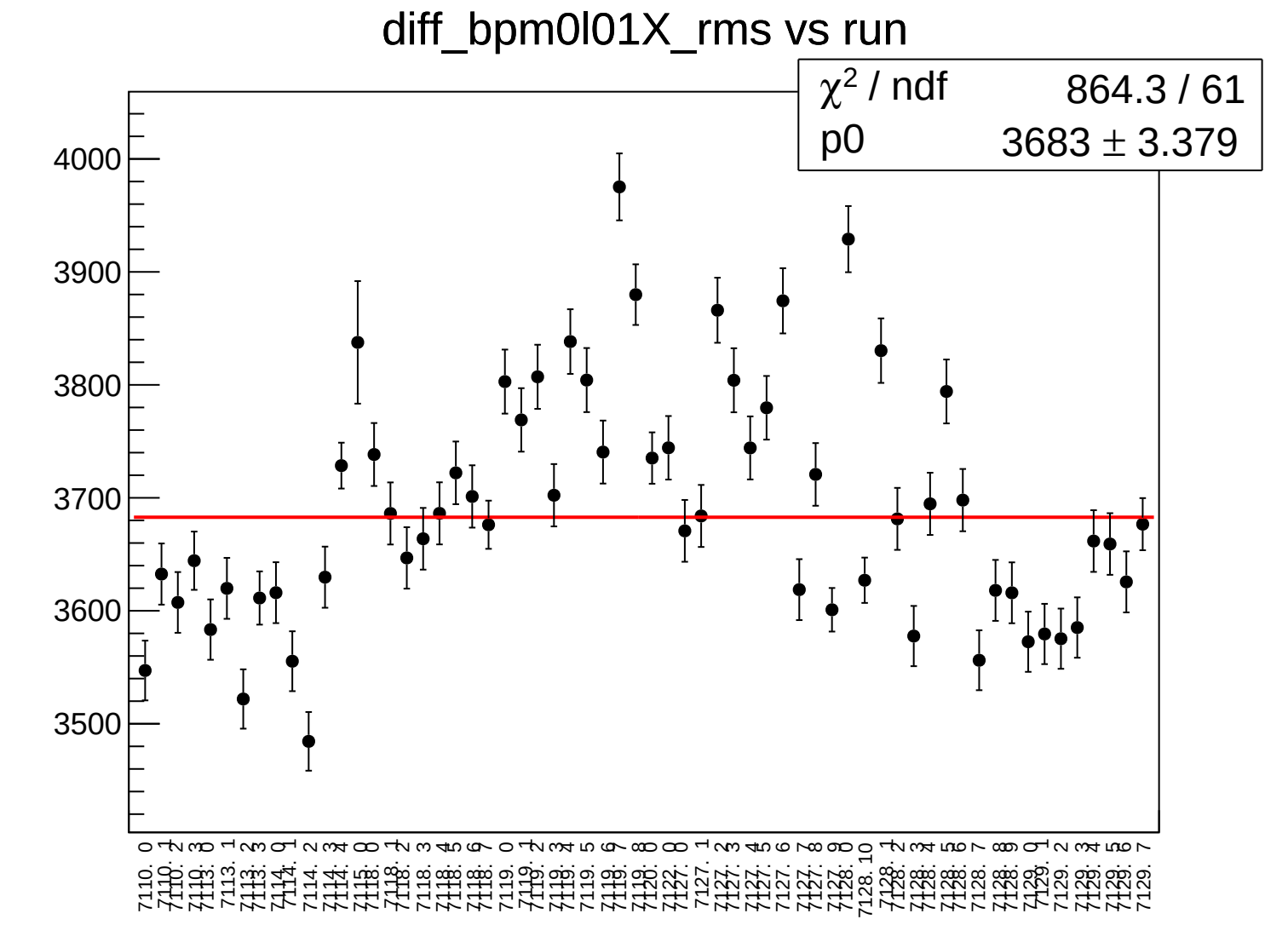

diff_bpm16Y_mean vs run
χ² / ndf 51.46 / 61
p0 −5.453 ± 6.268
pull
Entries 62
Mean −86.63
Std Dev 128.3

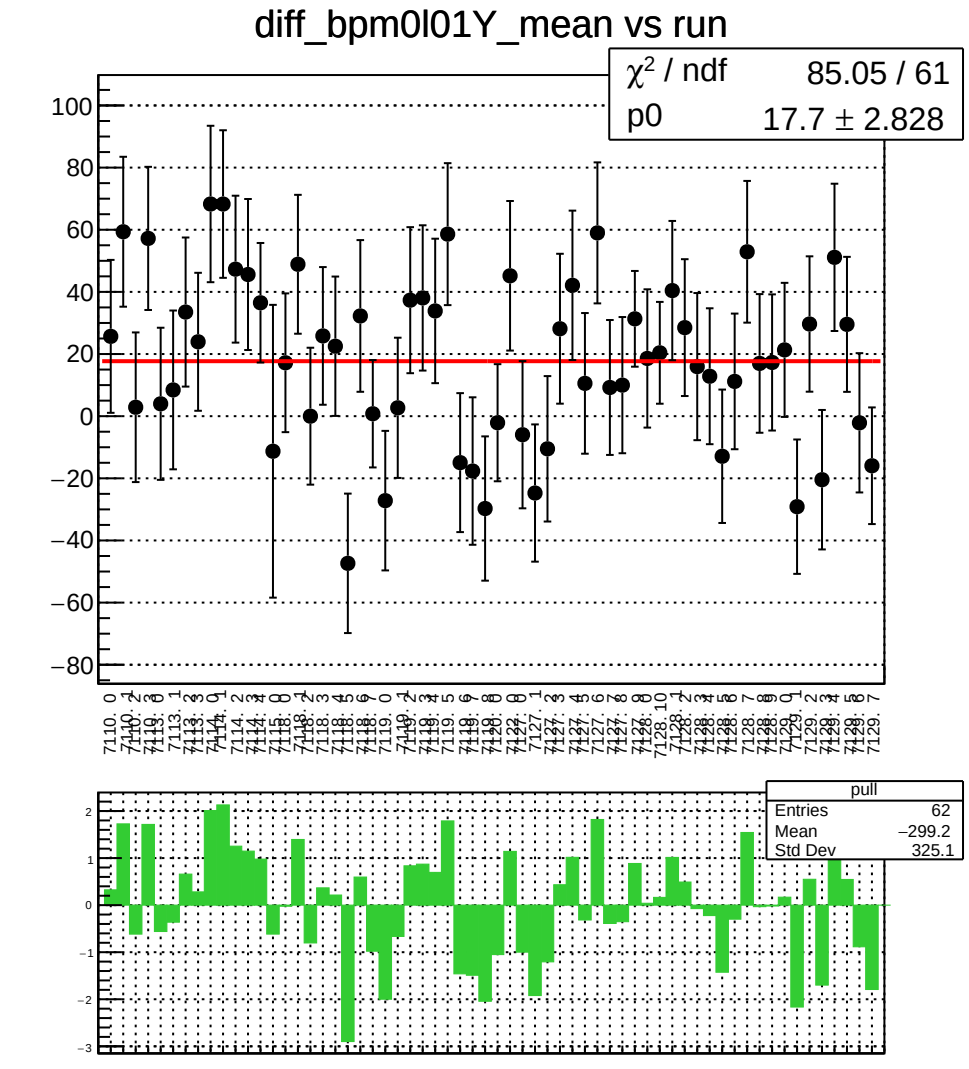

pull1D
Entries 62
Mean −0.01114
Std Dev 0.911

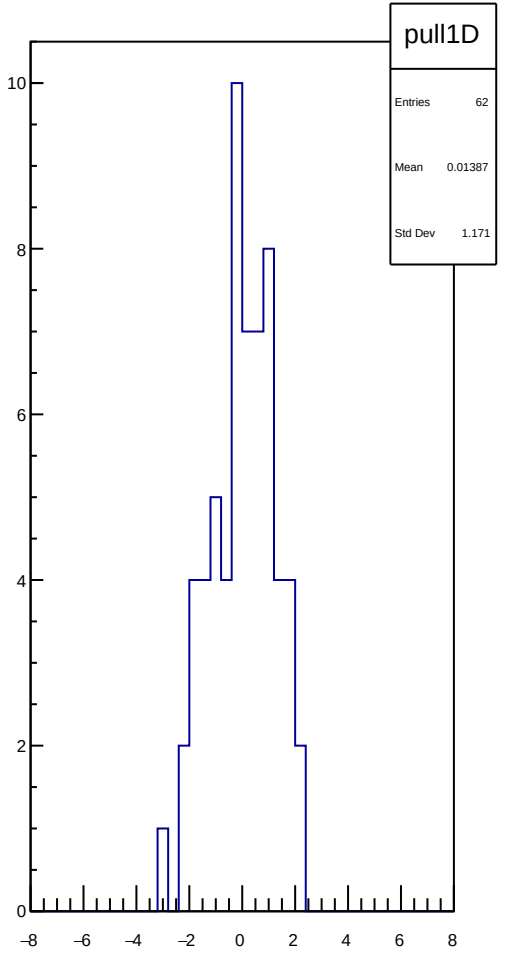

diff_bpm16Y_rms vs run
χ² / ndf 8819 / 61
p0 4814 ± 4.432
6000
5500
5000
4500
4000
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

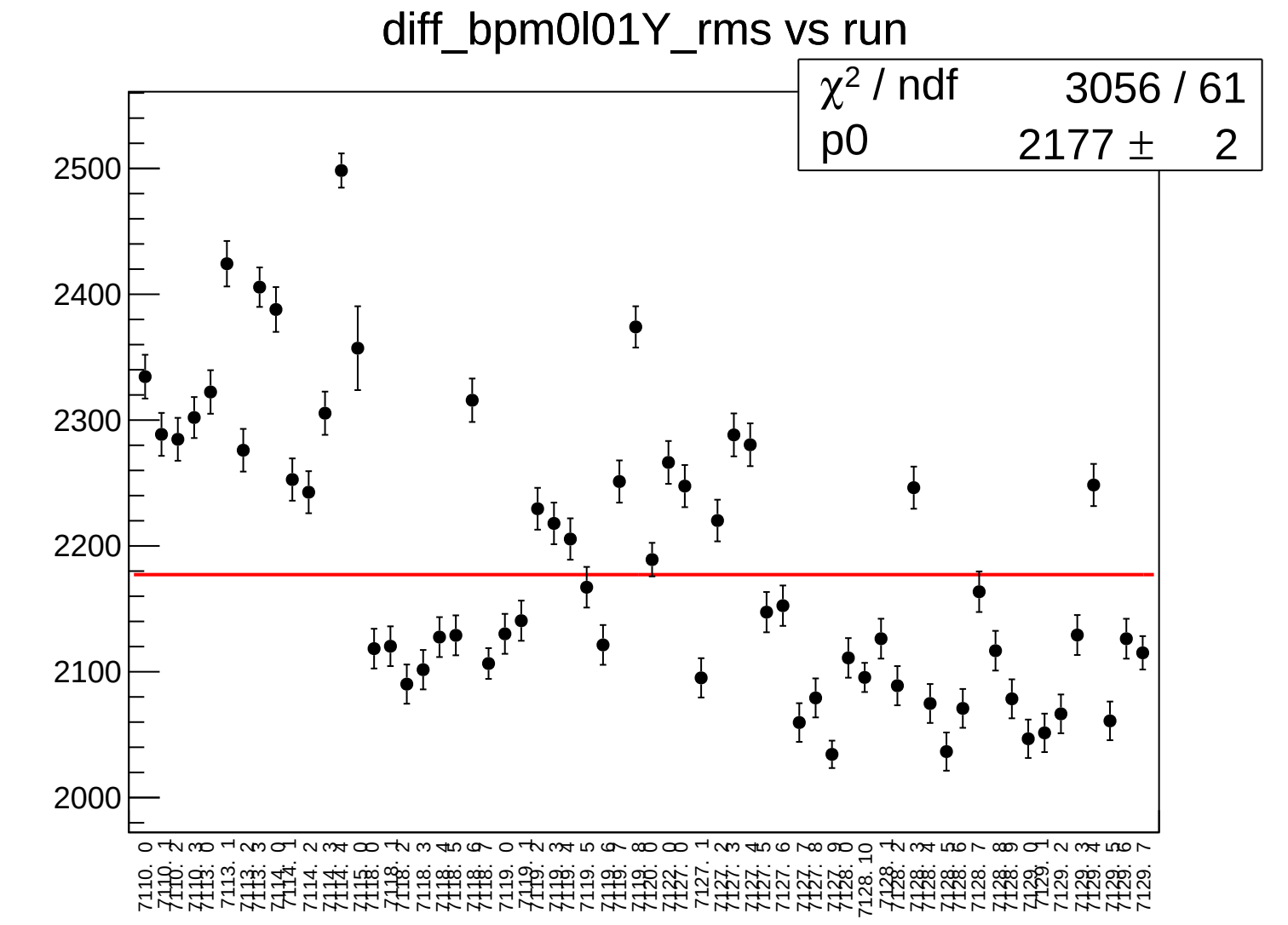

diff_bpm0l01X_mean vs run
χ^2 / ndf 44.91 / 61
p0 −11.73 ± 4.779
150
100
50
0
−50
−100
pull
Entries 62
Mean 37.58
Std Dev 17.33
2
1.5
1
0.5
0
−0.5
−1
−1.5

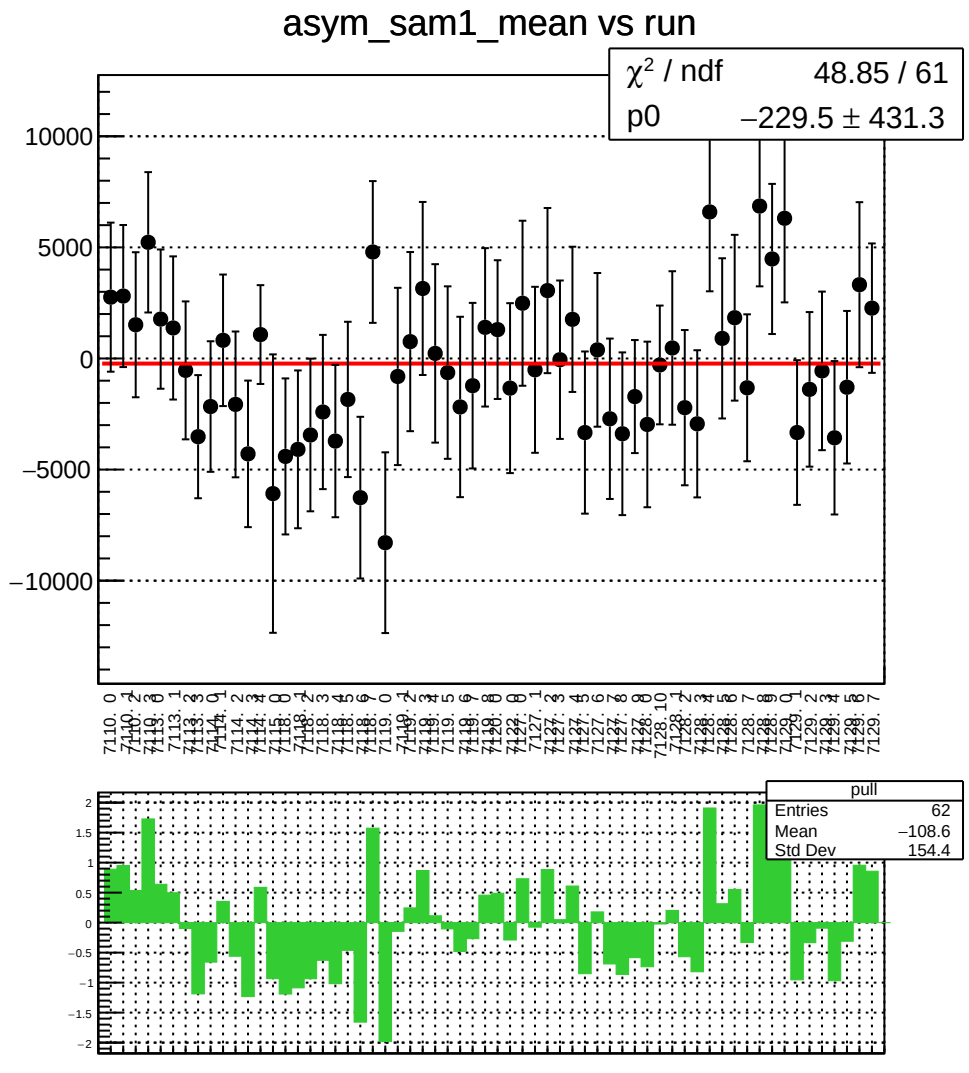

pull1D
Entries 62
Mean 0.02004
Std Dev 0.8509
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

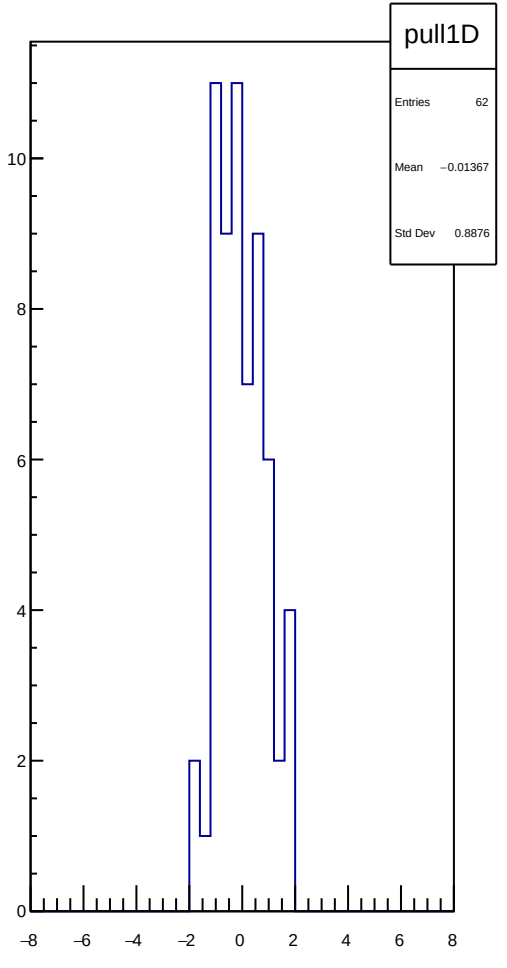

diff_bpm0l01X_rms vs run
χ² / ndf 864.3 / 61
p0 3683 ± 3.379
4000
3900
3800
3700
3600
3500
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

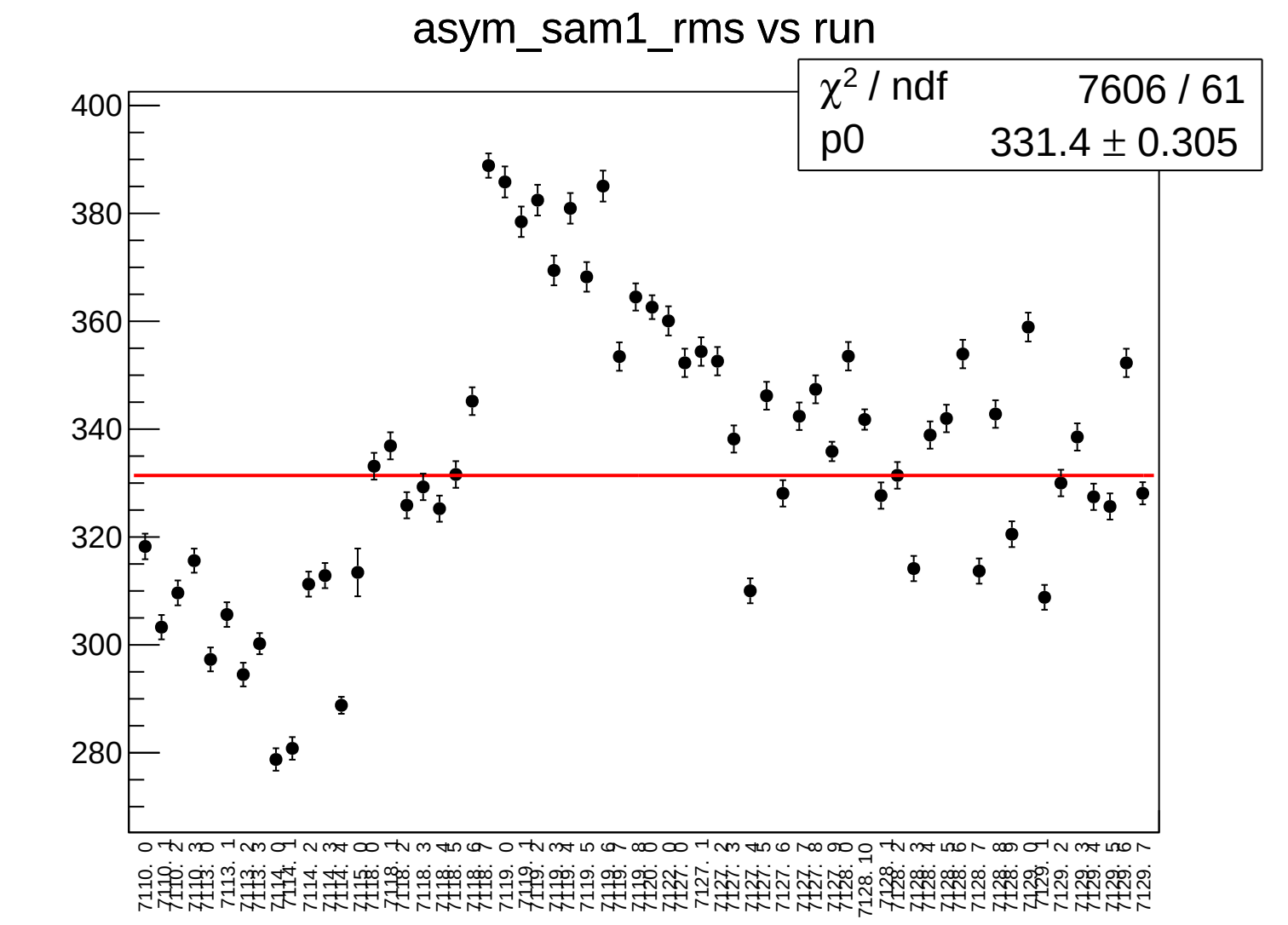

diff_bpm0l01Y_mean vs run
χ² / ndf 85.05 / 61
p0 17.7 ± 2.828
pull
Entries 62
Mean −299.2
Std Dev 325.1

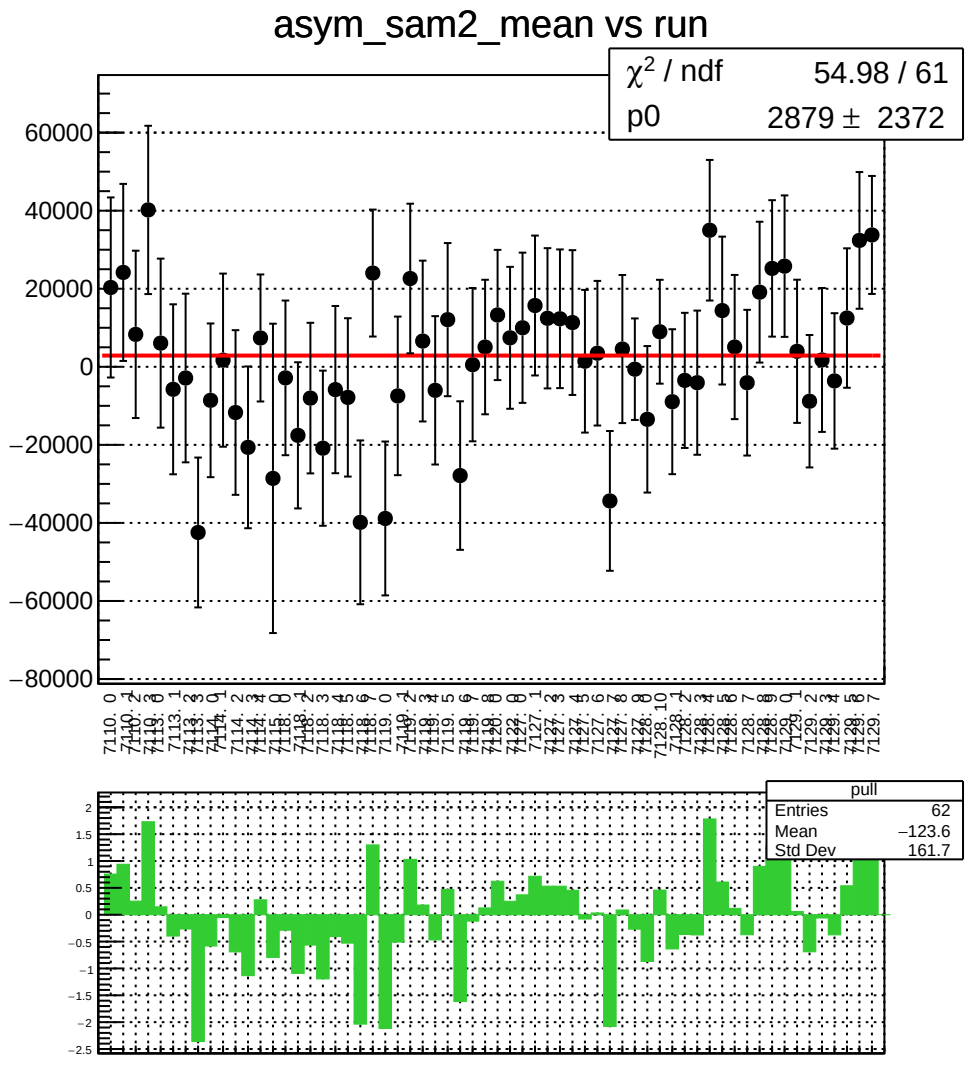

pull1D
Entries 62
Mean 0.01387
Std Dev 1.171

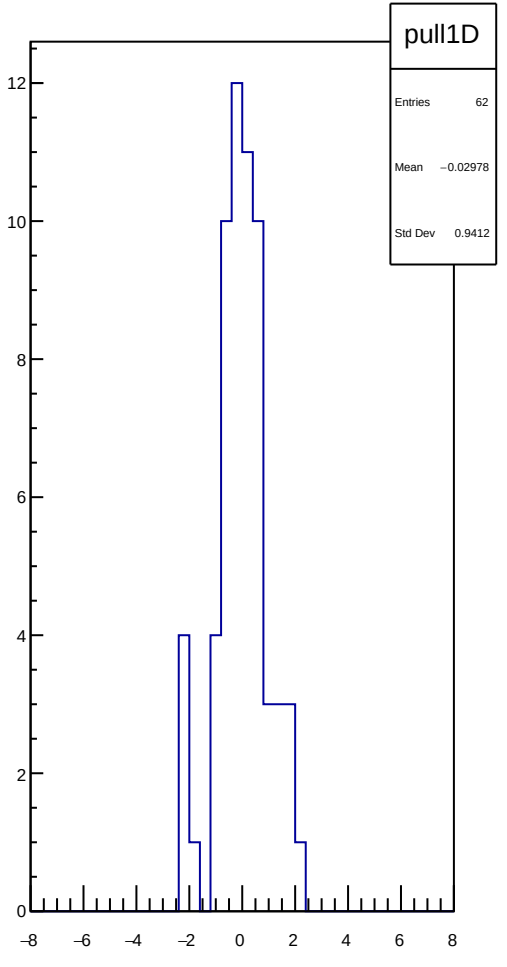

diff_bpm0l01Y_rms vs run
χ² / ndf 3056 / 61
p0 2177 ± 2
2500
2400
2300
2200
2100
2000

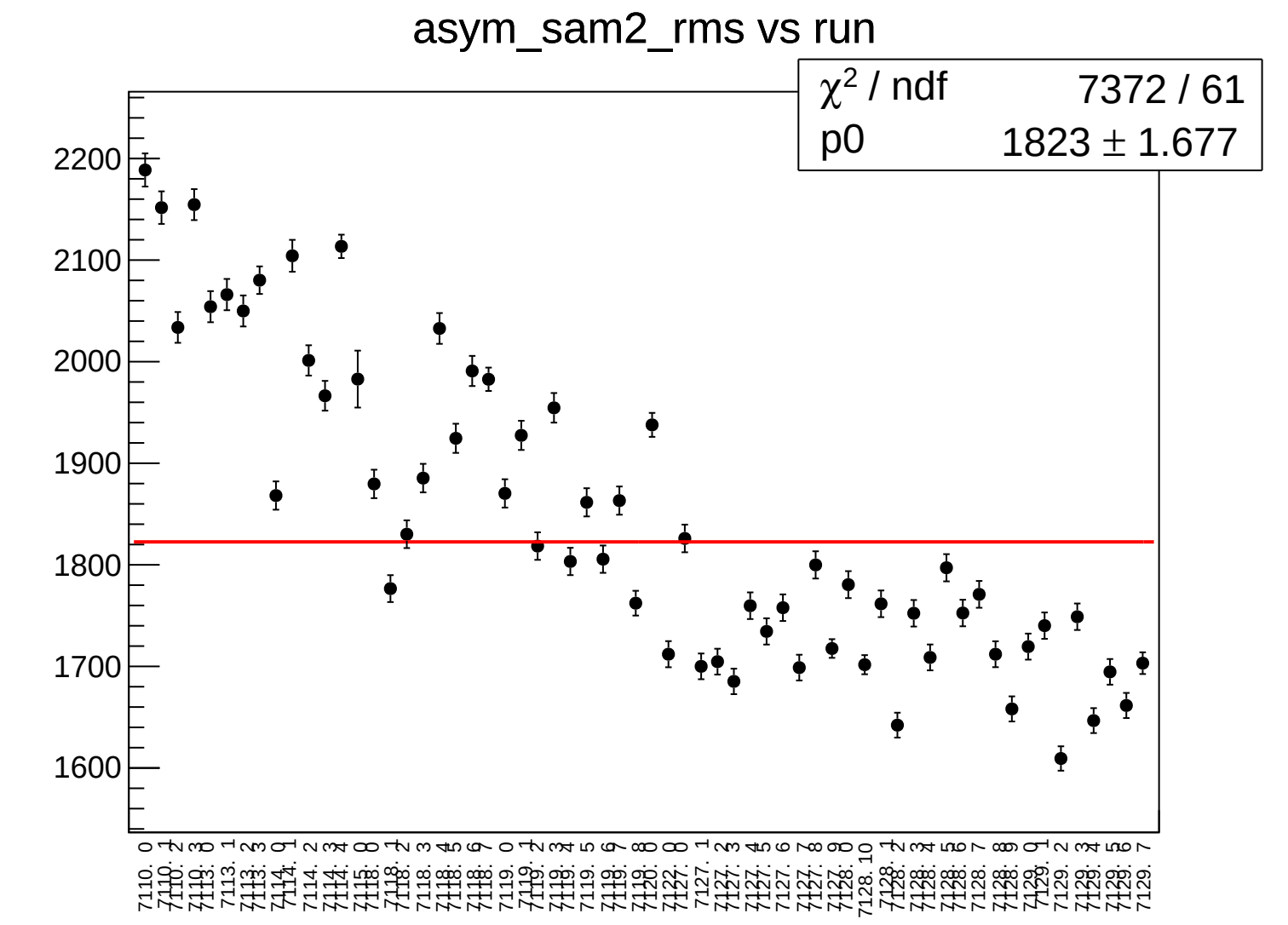

asym_sam1_mean vs run
χ² / ndf 48.85 / 61
p0 −229.5 ± 431.3
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −108.6
Std Dev 154.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

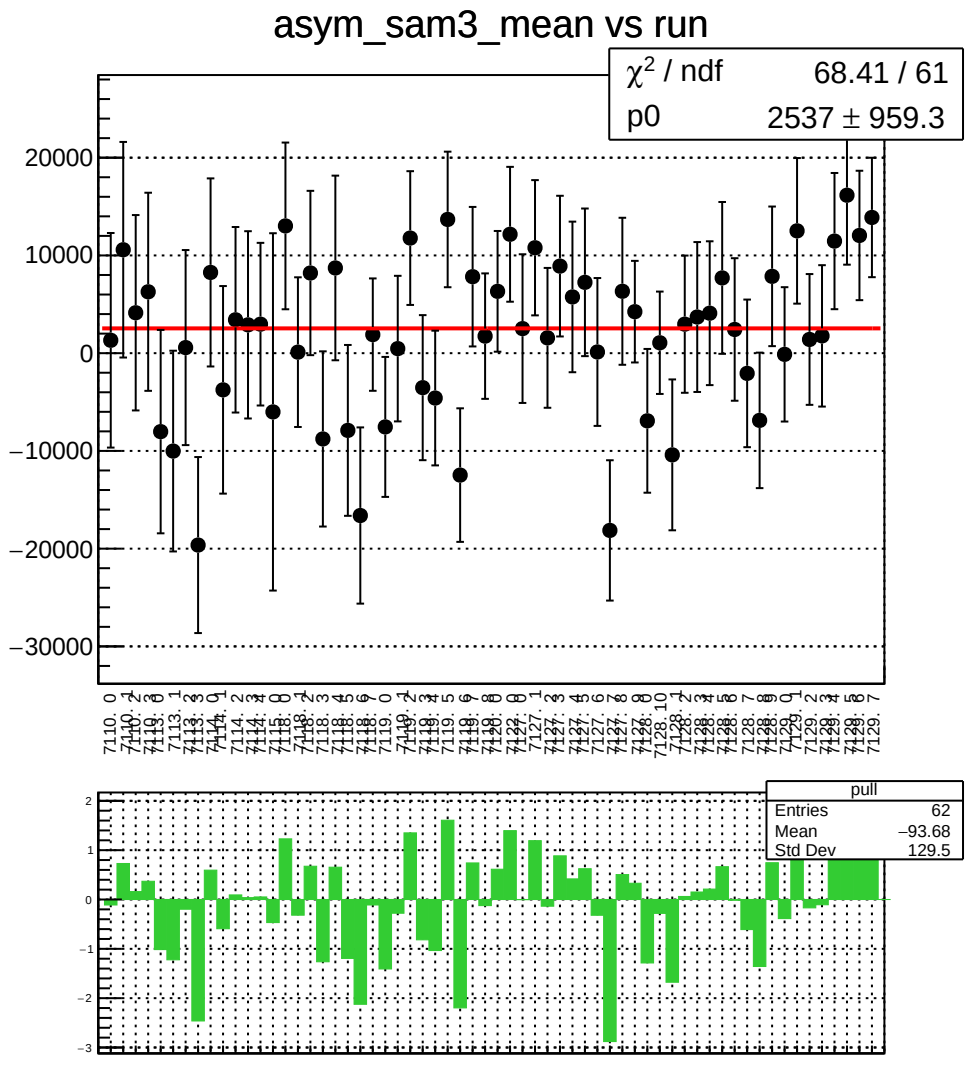

pull1D
Entries 62
Mean −0.01367
Std Dev 0.8876
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

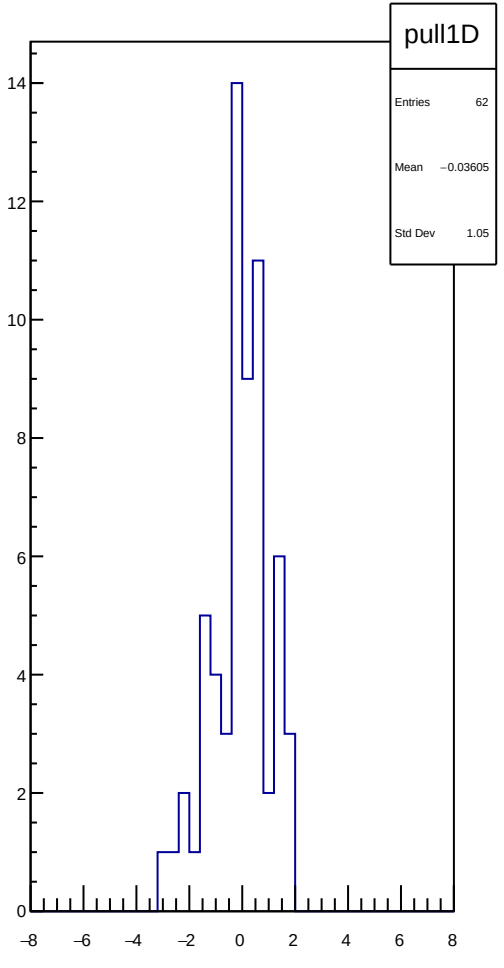

asym_sam1_rms vs run
χ² / ndf 7606 / 61
p0 331.4 ± 0.305
400
380
360
340
320
300
280
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

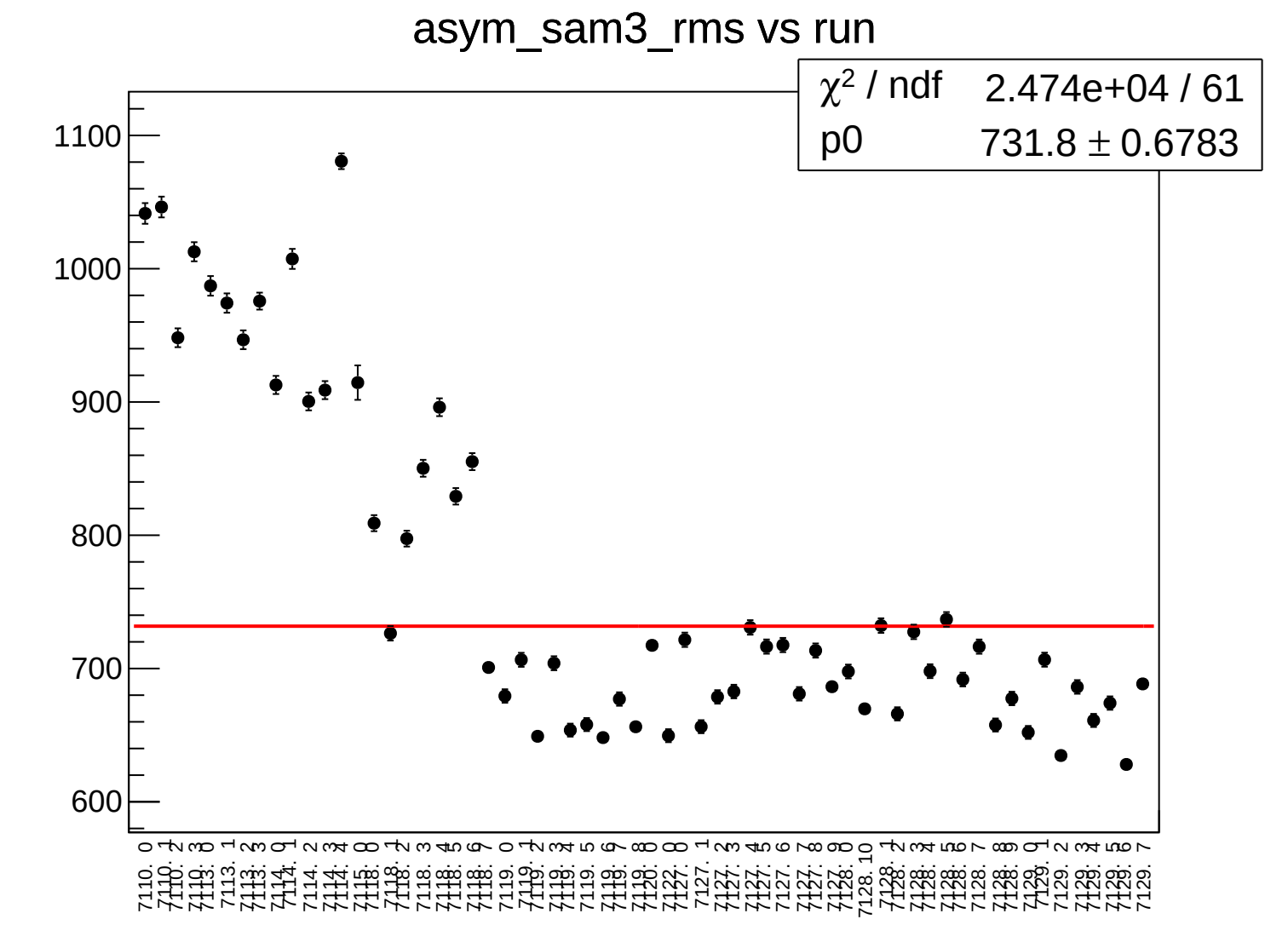

asym_sam2_mean vs run
χ² / ndf 54.98 / 61
p0 2879 ± 2372
pull
Entries 62
Mean −123.6
Std Dev 161.7

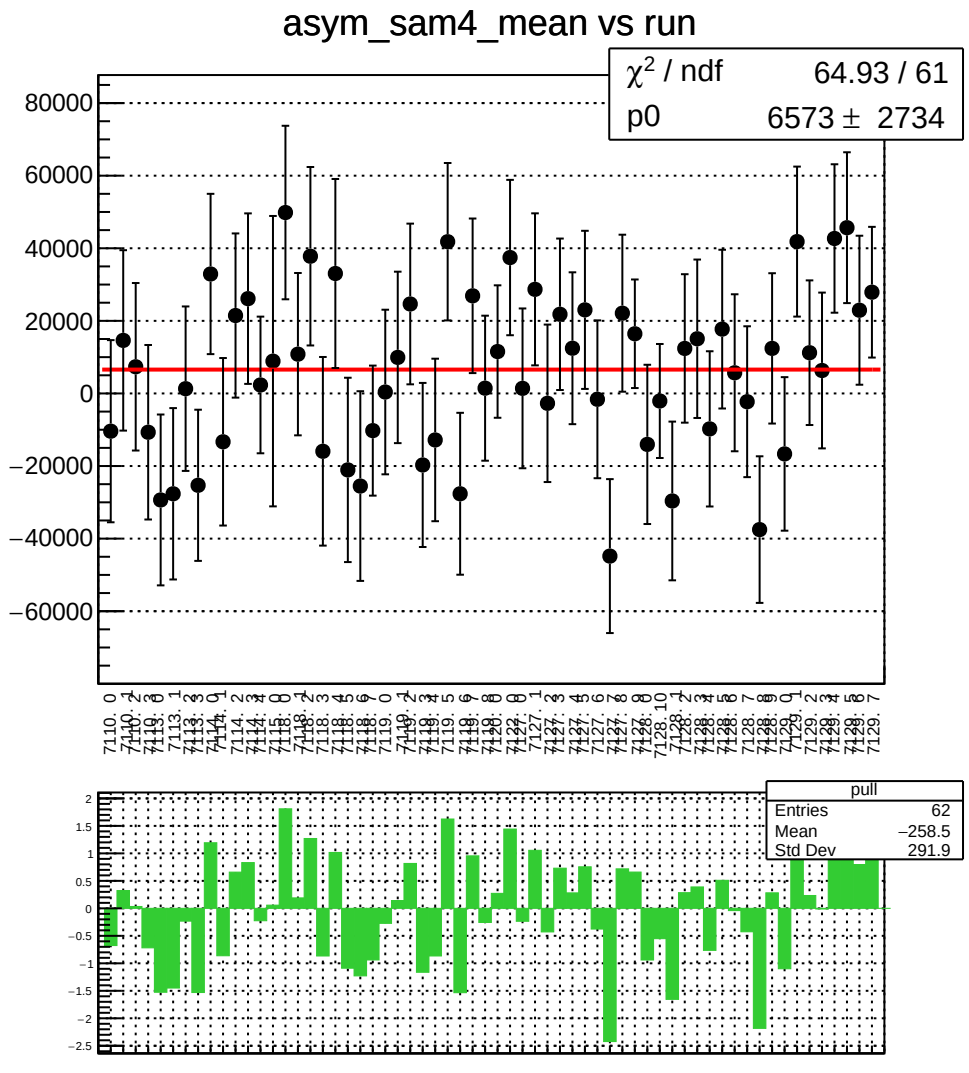

pull1D
Entries 62
Mean −0.02978
Std Dev 0.9412

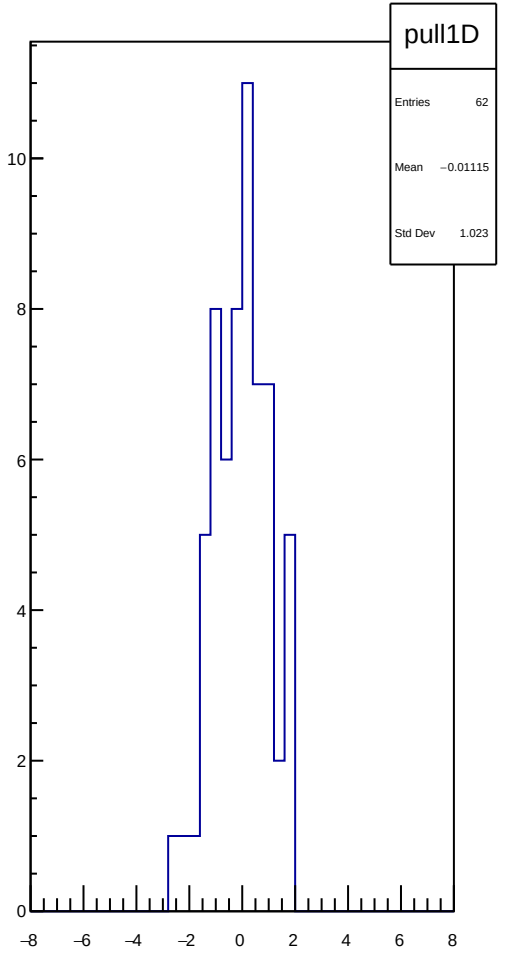

asym_sam2_rms vs run
χ² / ndf 7372 / 61
p0 1823 ± 1.677
2200
2100
2000
1900
1800
1700
1600
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

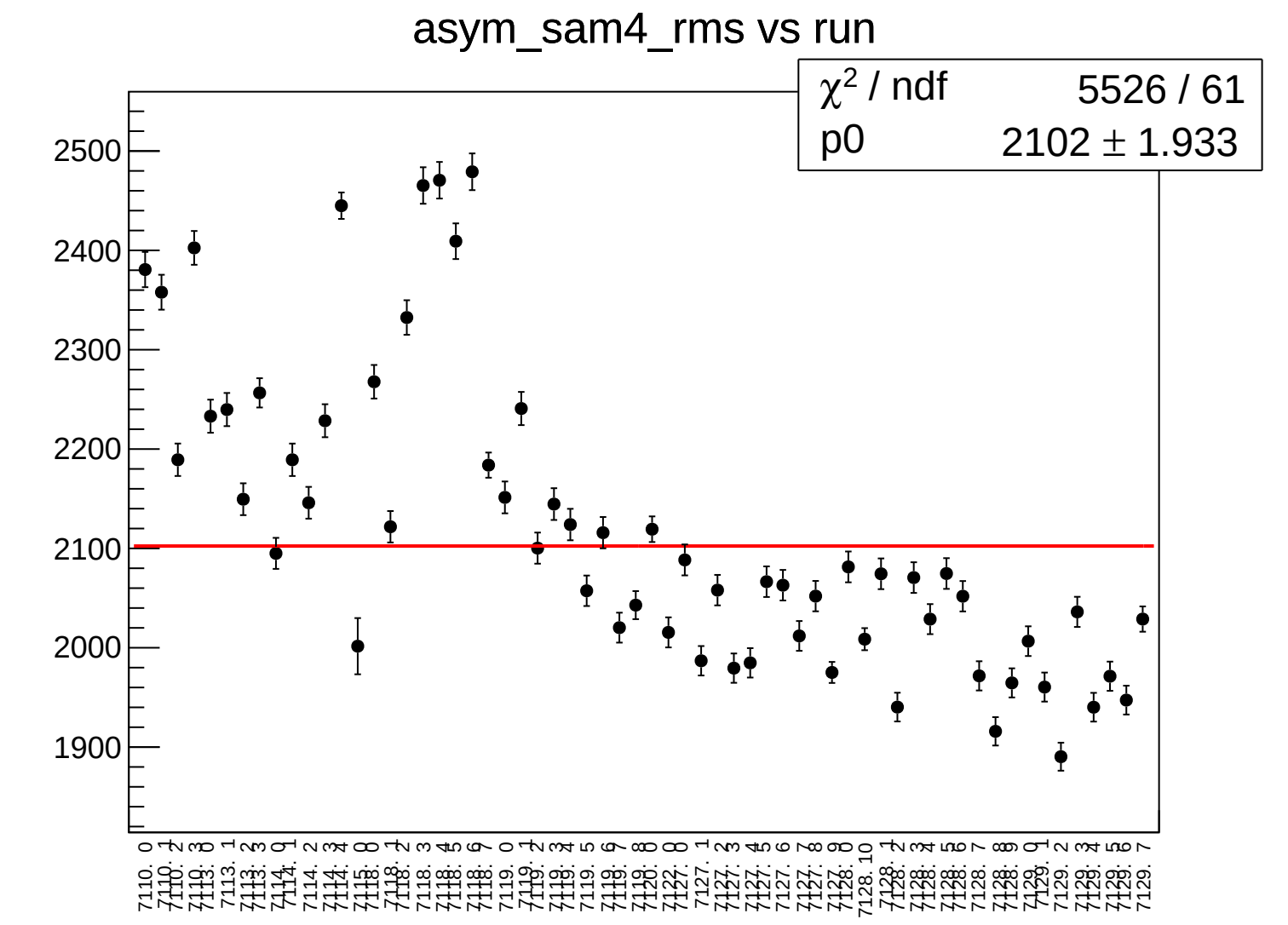

asym_sam3_mean vs run
χ² / ndf 68.41 / 61
p0 2537 ± 959.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 62
Mean −93.68
Std Dev 129.5
2
1
0
−1
−2
−3

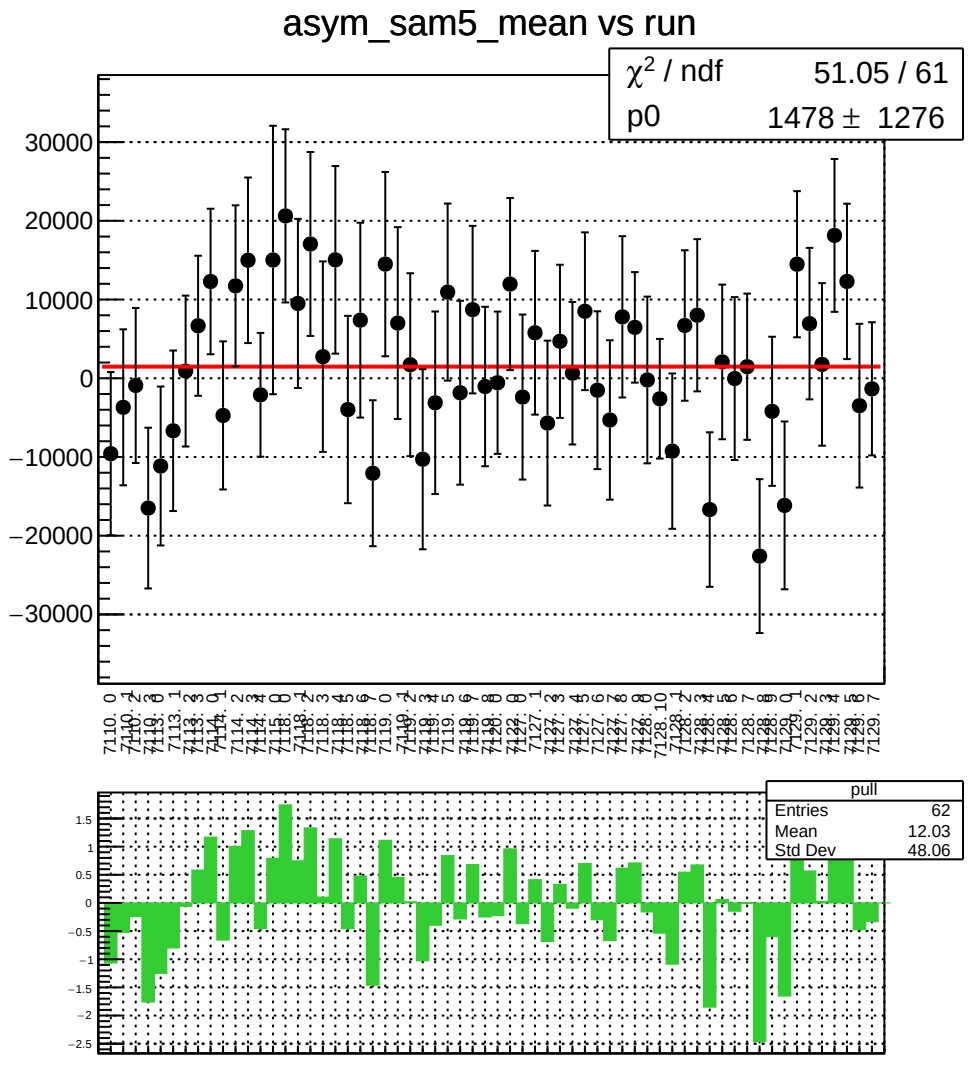

pull1D
Entries 62
Mean −0.03605
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

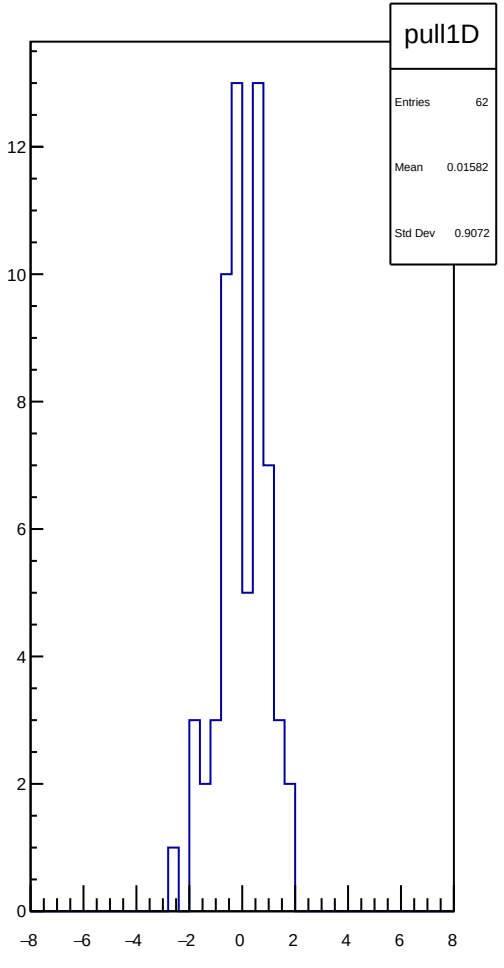

asym_sam3_rms vs run
χ^2 / ndf 2.474e+04 / 61
p0 731.8 ± 0.6783
1100
1000
900
800
700
600

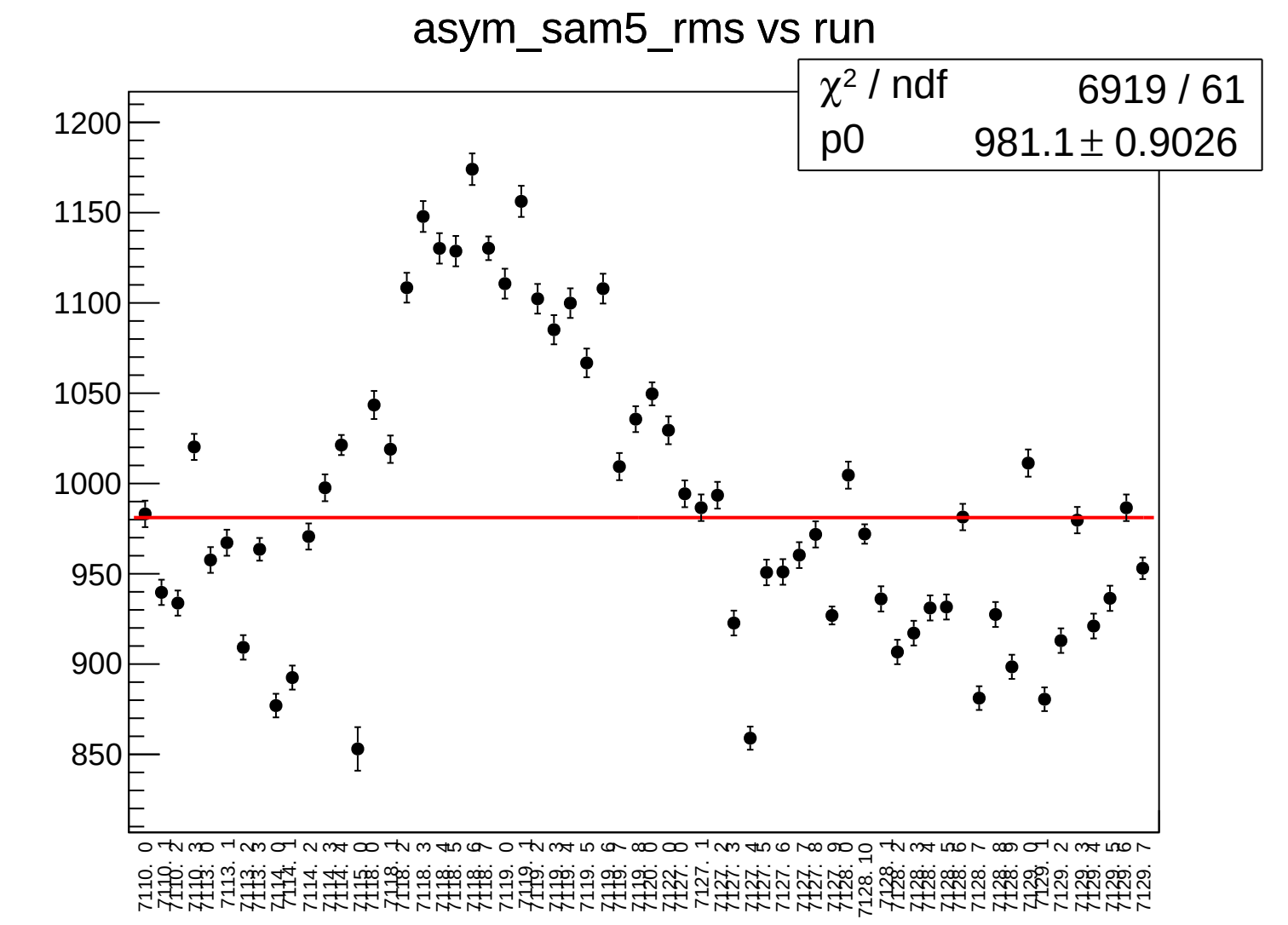

asym_sam4_mean vs run
χ² / ndf 64.93 / 61
p0 6573 ± 2734
pull
Entries 62
Mean −258.5
Std Dev 291.9

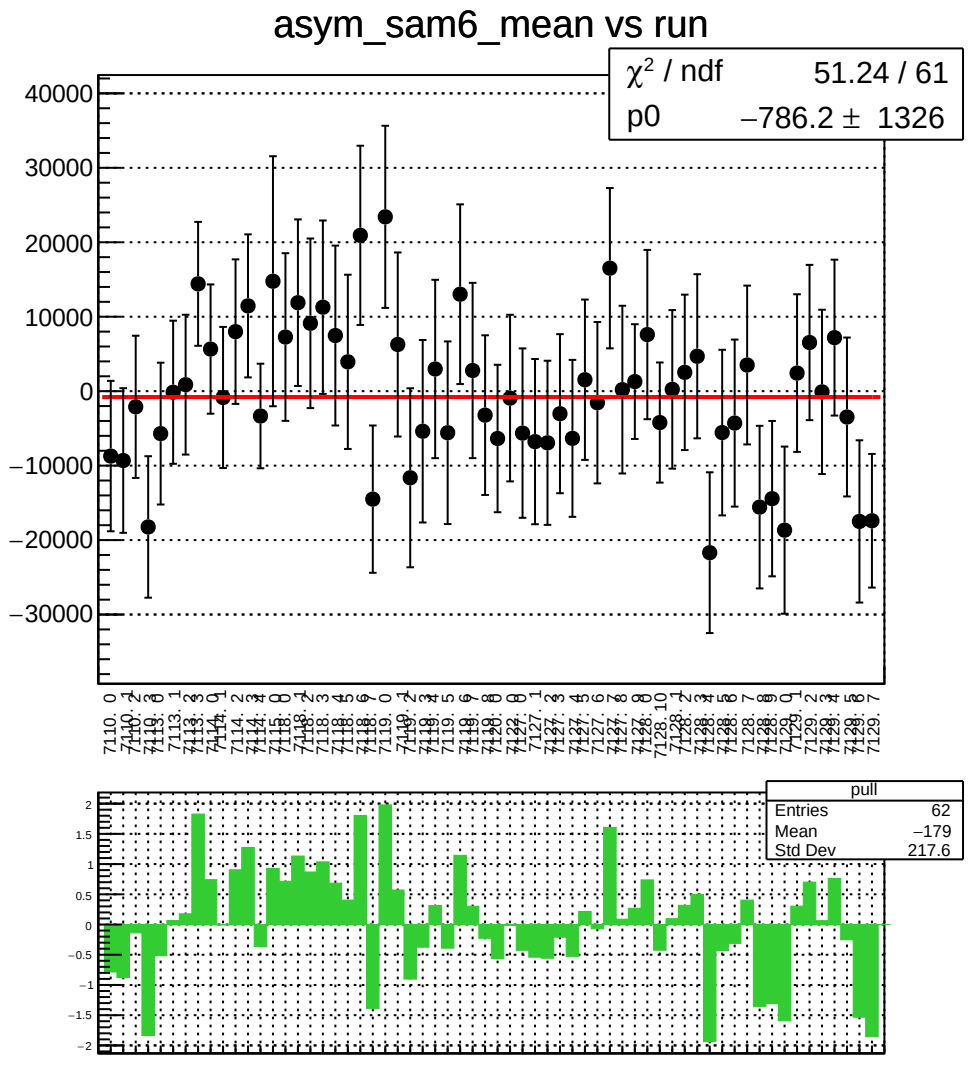

pull1D
Entries 62
Mean −0.01115
Std Dev 1.023

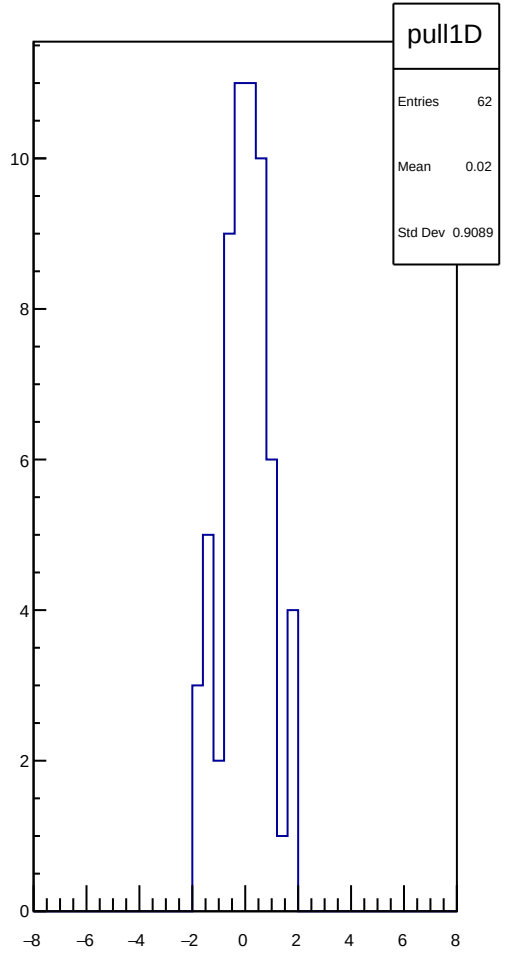

asym_sam4_rms vs run
χ² / ndf 5526 / 61
p0 2102 ± 1.933
2500
2400
2300
2200
2100
2000
1900

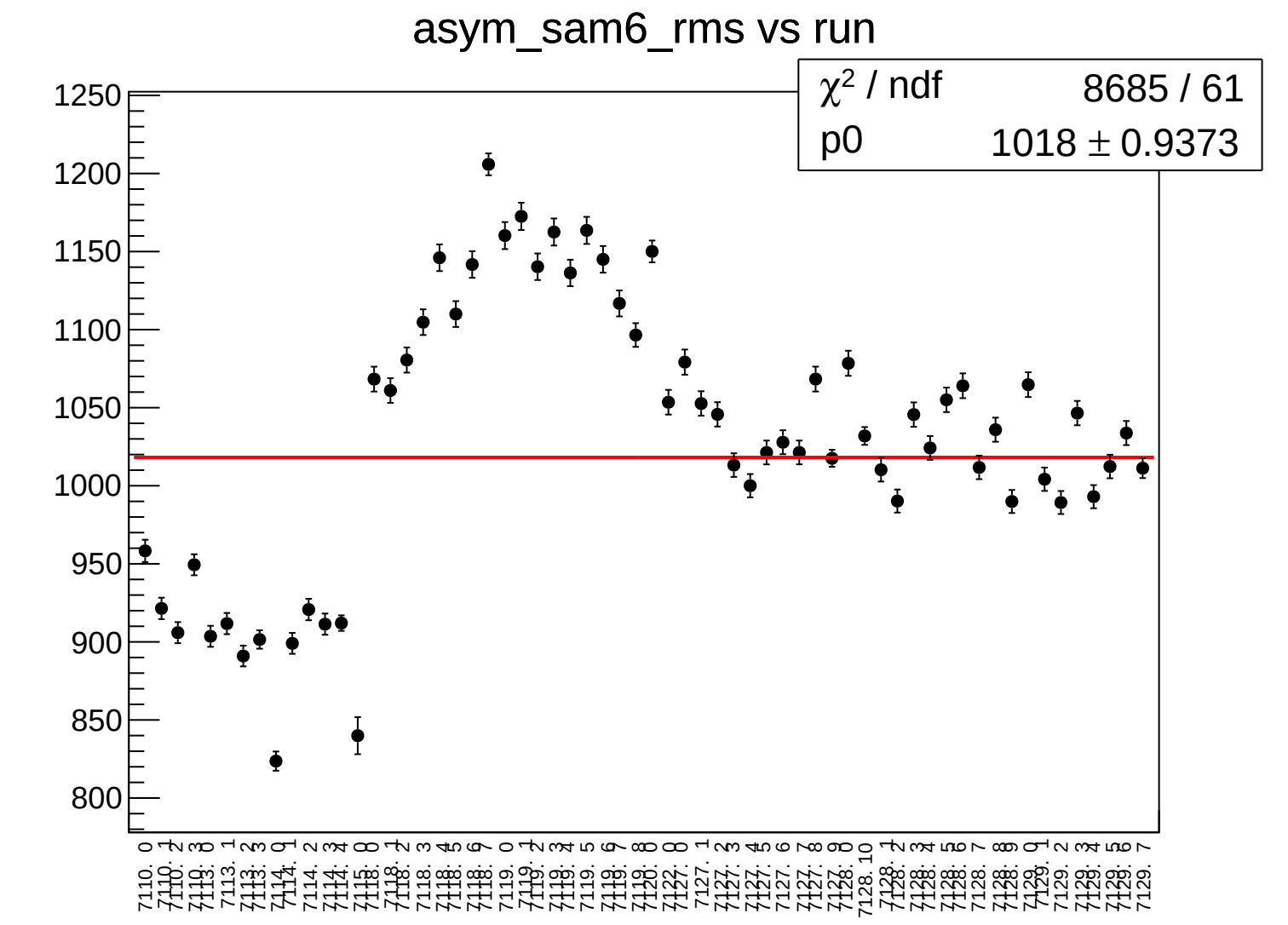

asym_sam5_mean vs run
χ² / ndf 51.05 / 61
p0 1478 ± 1276
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 62
Mean 12.03
Std Dev 48.06
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

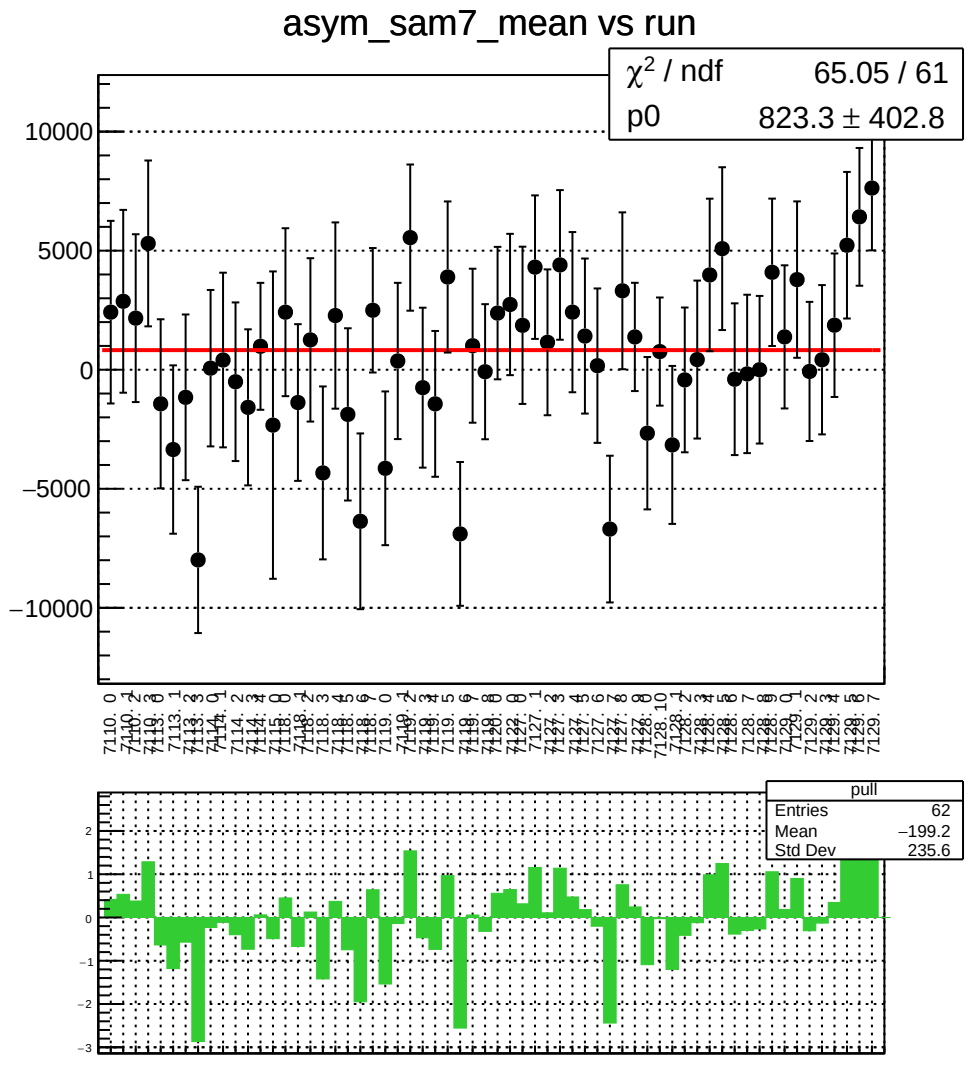

pull1D
Entries 62
Mean 0.01582
Std Dev 0.9072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

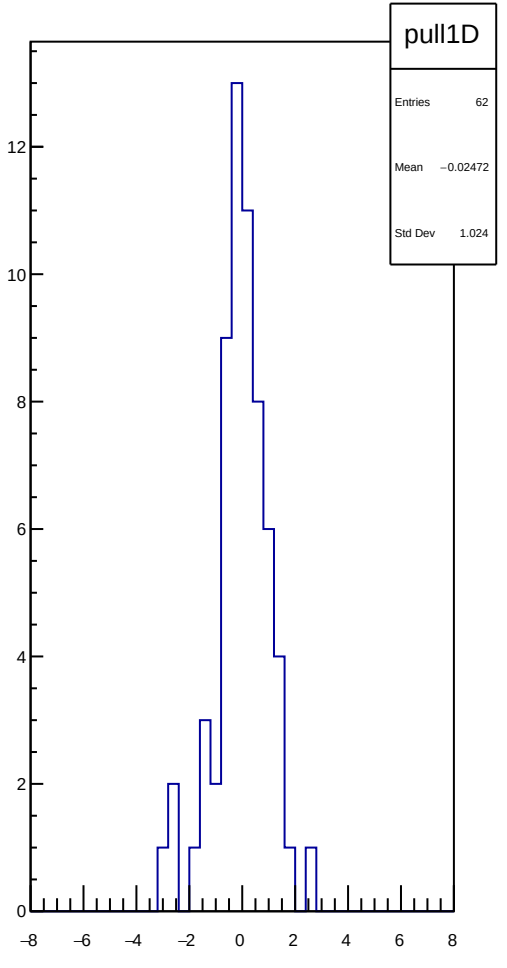

asym_sam5_rms vs run
χ² / ndf 6919 / 61
p0 981.1 ± 0.9026
1200
1150
1100
1050
1000
950
900
850

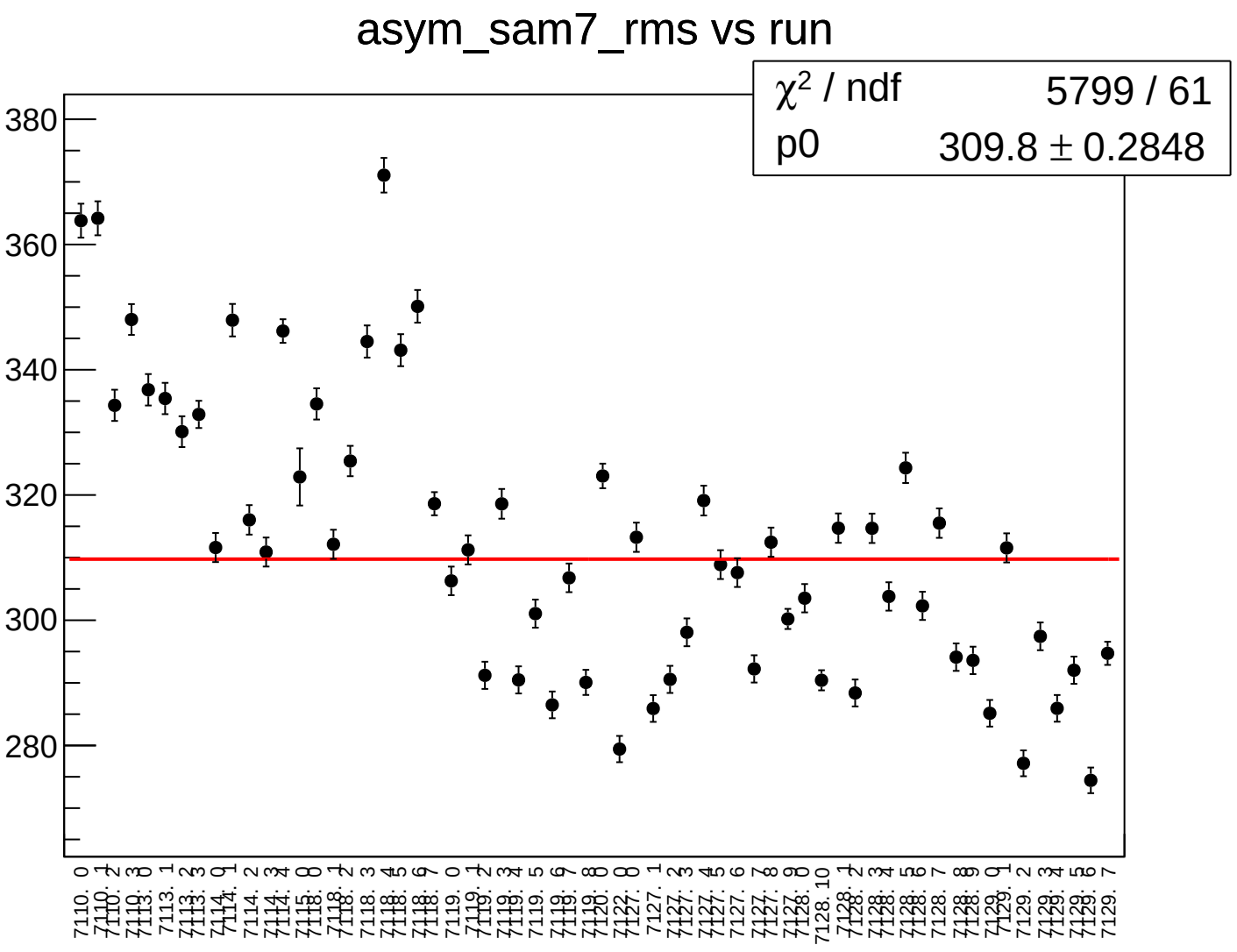

asym_sam6_mean vs run
χ² / ndf 51.24 / 61
p0 −786.2 ± 1326
pull
Entries 62
Mean −179
Std Dev 217.6

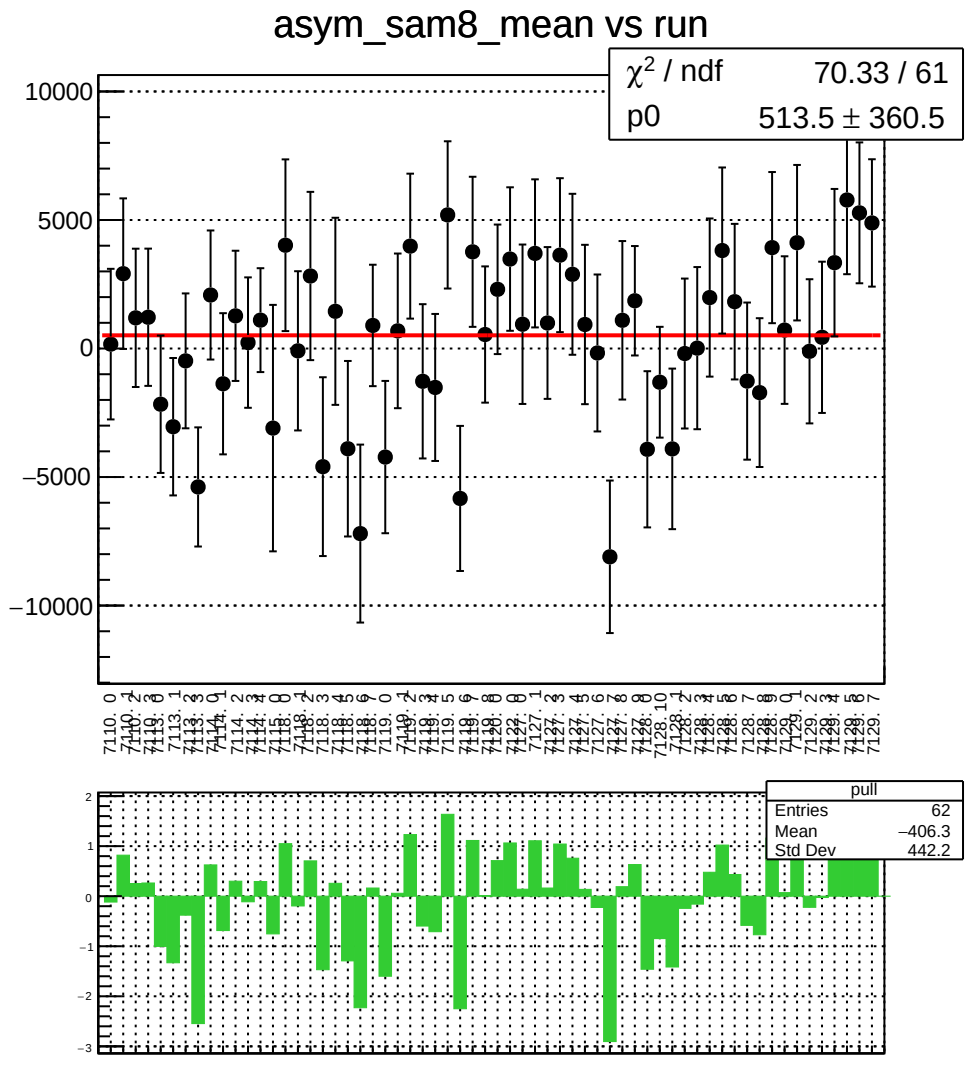

pull1D
Entries 62
Mean 0.02
Std Dev 0.9089

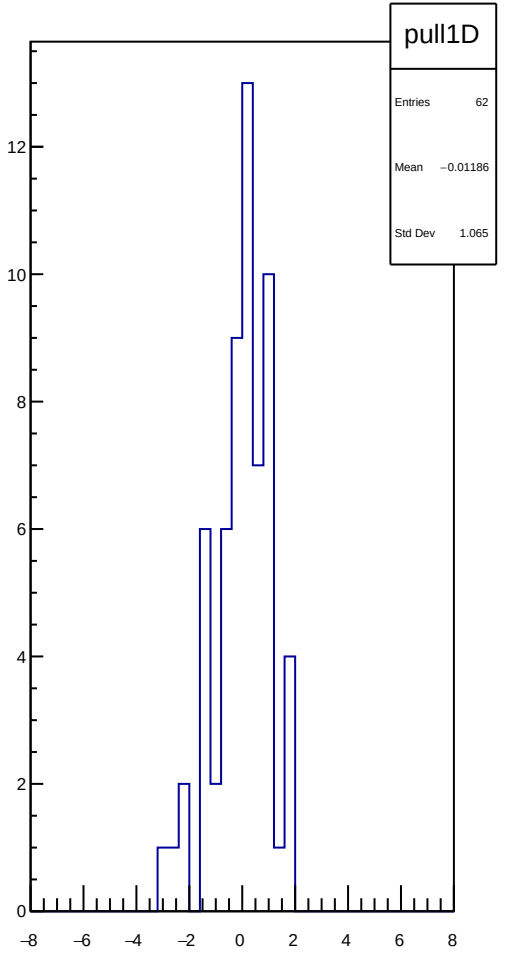

asym_sam6_rms vs run
χ² / ndf 8685 / 61
p0 1018 ± 0.9373
1250
1200
1150
1100
1050
1000
950
900
850
800
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

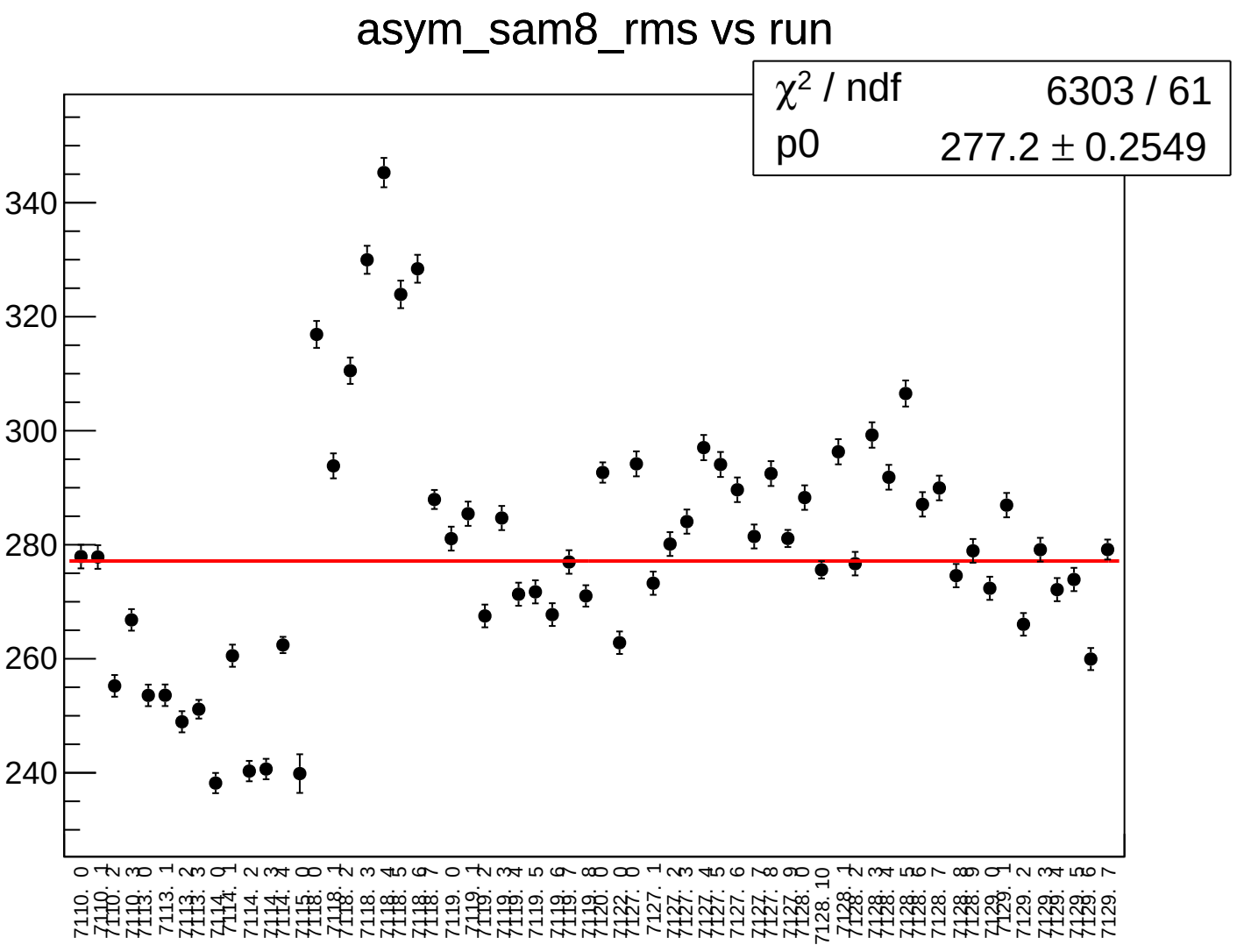

asym_sam7_mean vs run
χ² / ndf 65.05 / 61
p0 823.3 ± 402.8
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −199.2
Std Dev 235.6
2
1
0
−1
−2
−3

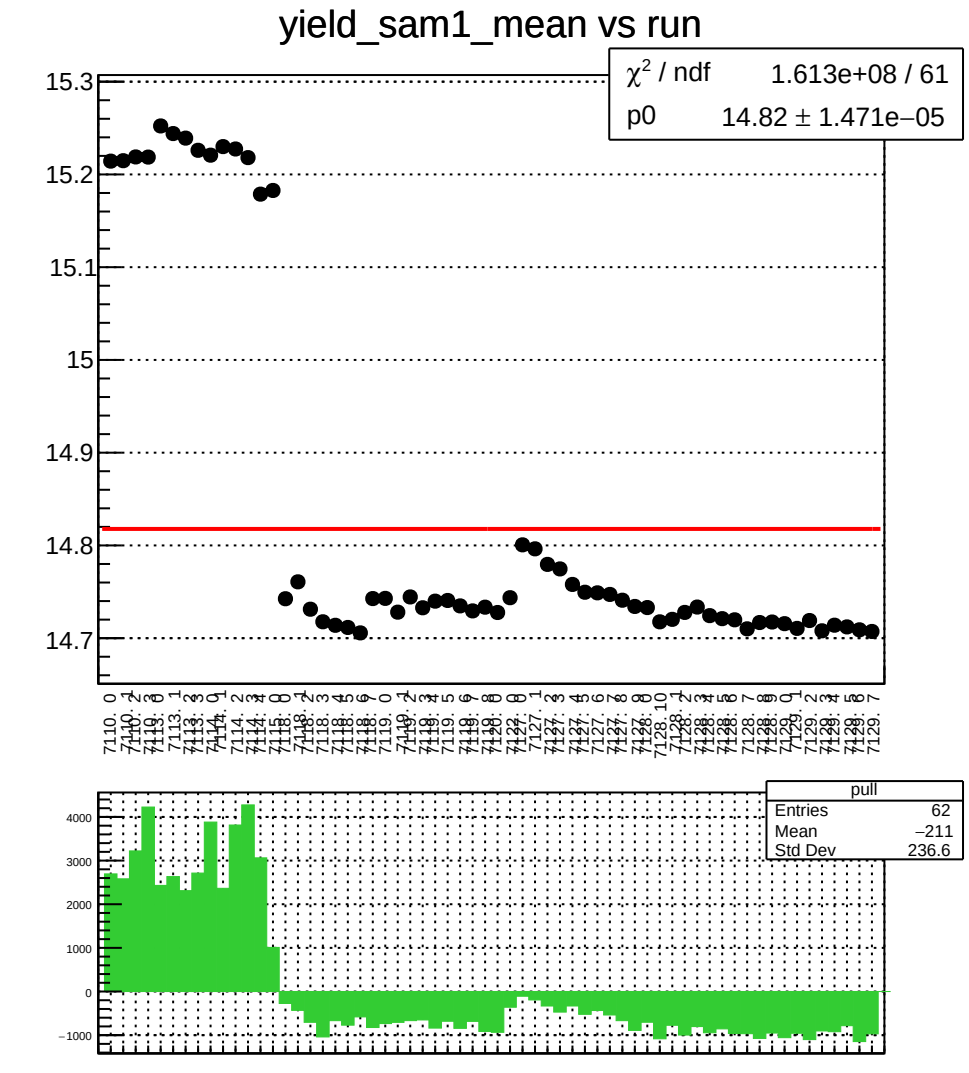

pull1D
Entries 62
Mean −0.02472
Std Dev 1.024
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

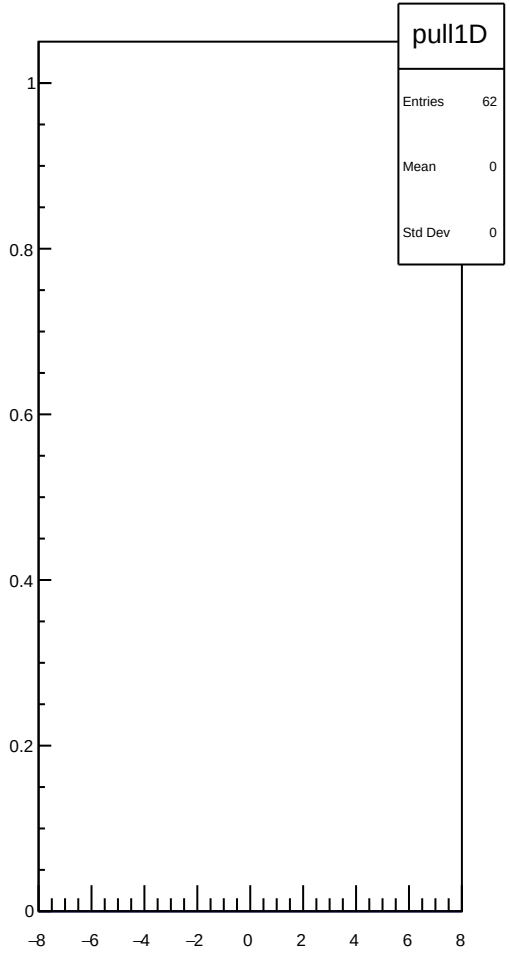

asym_sam7_rms vs run
χ^2 / ndf 5799 / 61
p0 309.8 ± 0.2848
380
360
340
320
300
280
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

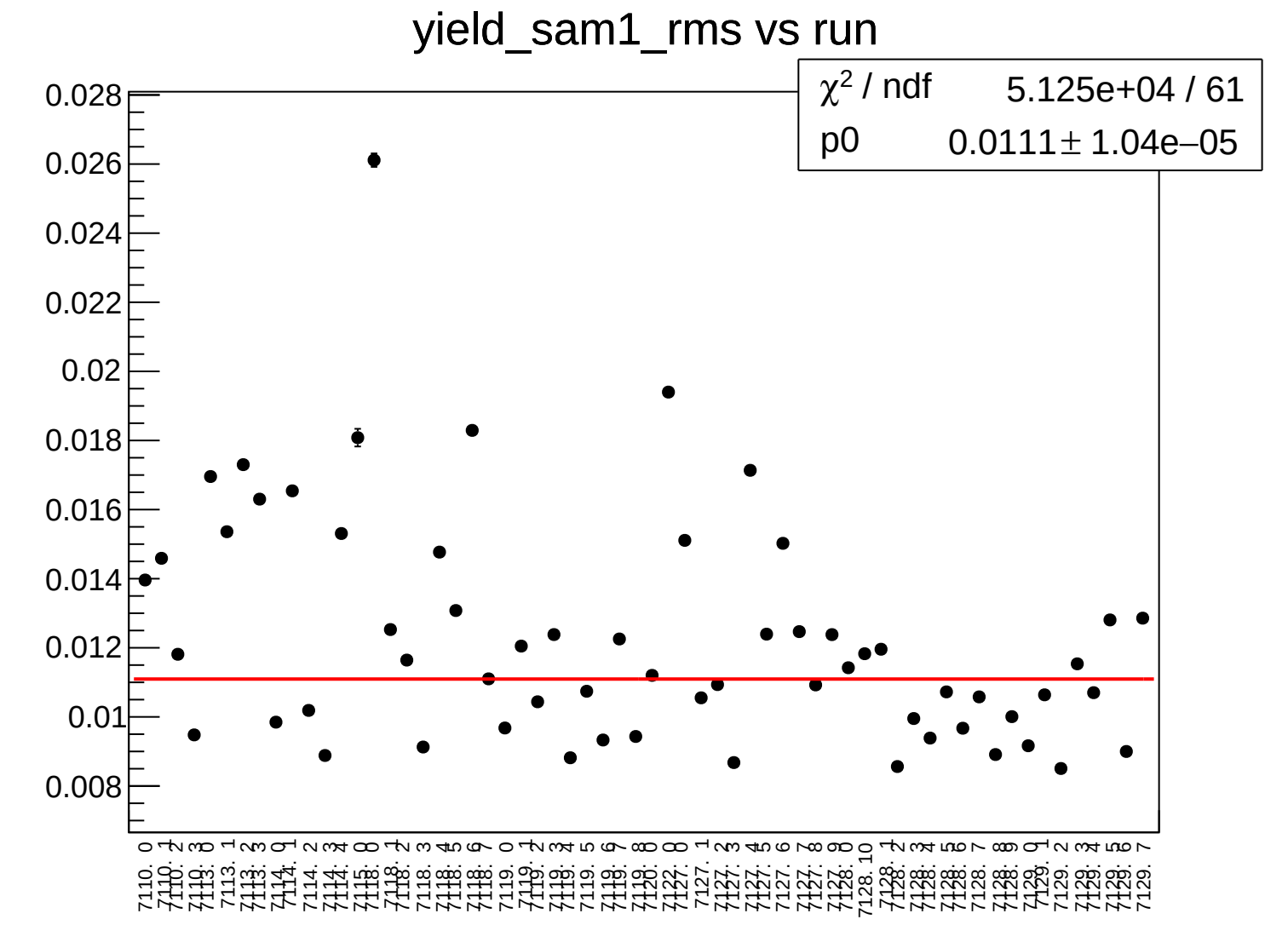

asym_sam8_mean vs run
χ² / ndf 70.33 / 61
p0 513.5 ± 360.5
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −406.3
Std Dev 442.2
2
1
0
−1
−2
−3

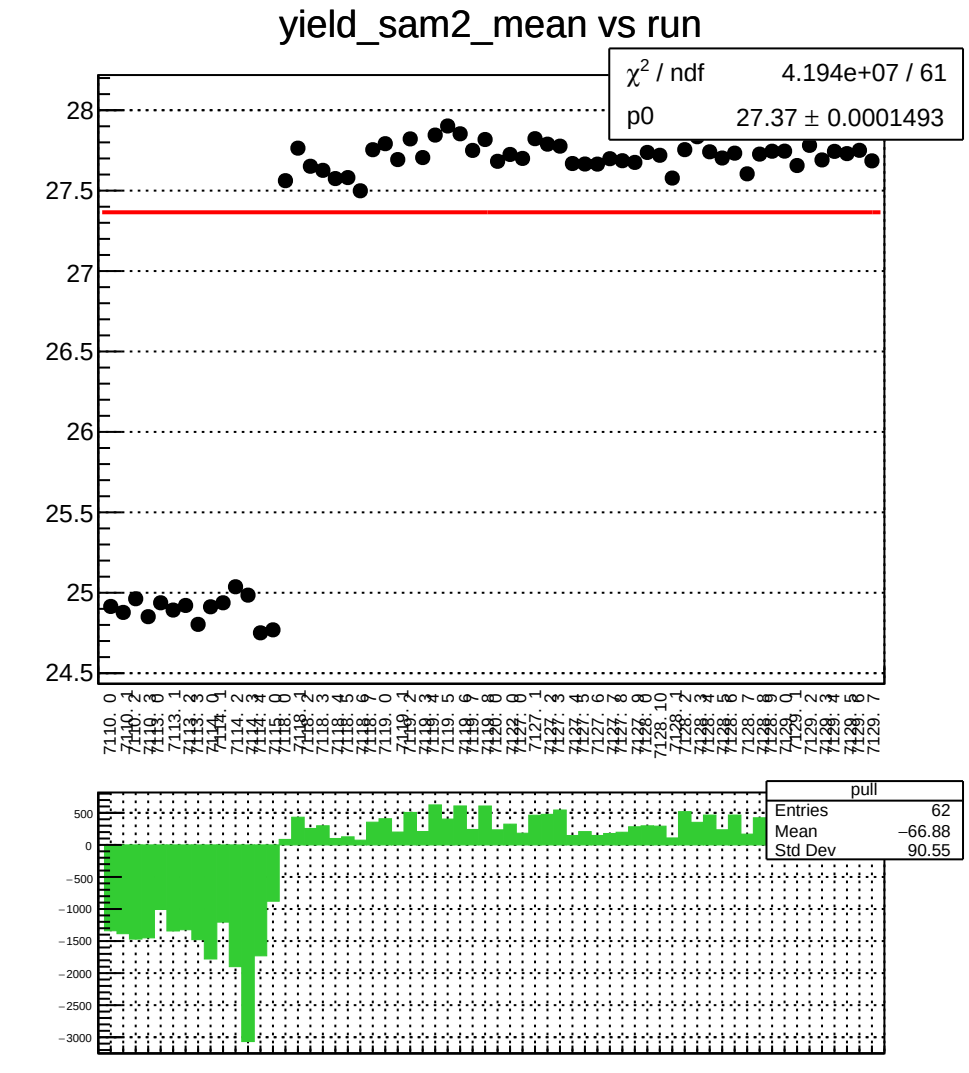

pull1D
Entries 62
Mean −0.01186
Std Dev 1.065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

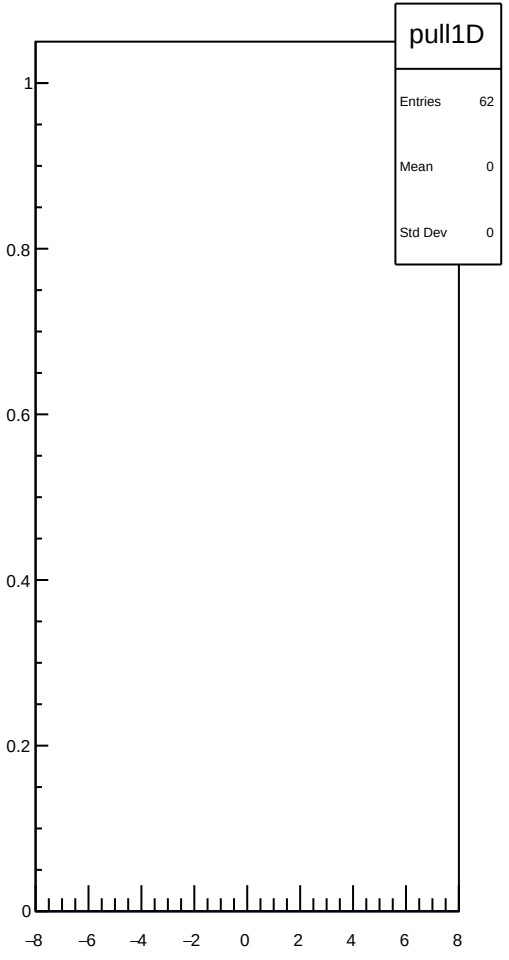

asym_sam8_rms vs run
χ² / ndf 6303 / 61
p0 277.2 ± 0.2549
340
320
300
280
260
240
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

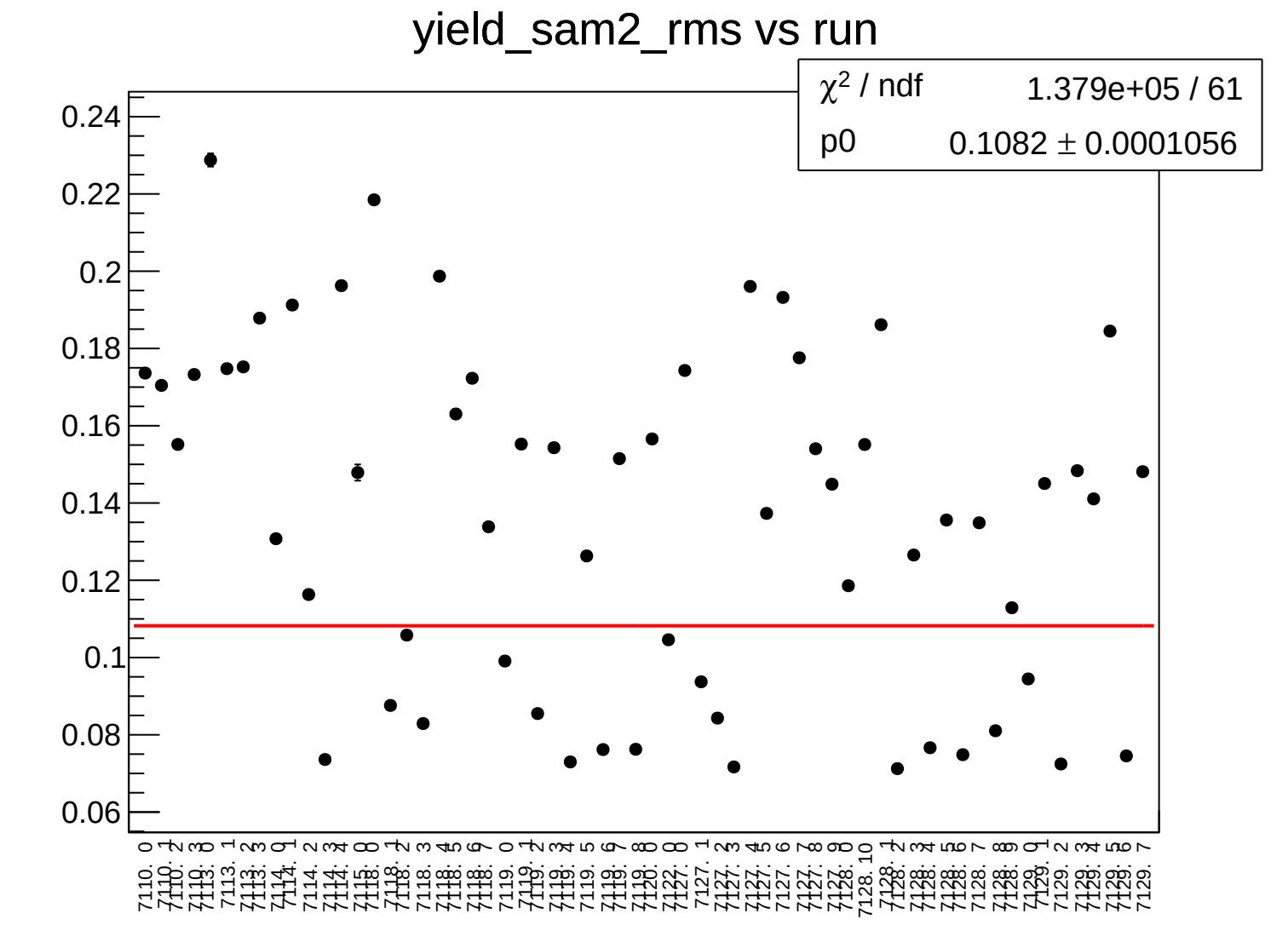

yield_sam1_mean vs run
χ² / ndf 1.613e+08 / 61
p0 14.82 ± 1.471e−05
15.3
15.2
15.1
15
14.9
14.8
14.7
pull
Entries 62
Mean −211
Std Dev 236.6
4000
3000
2000
1000
0
−1000

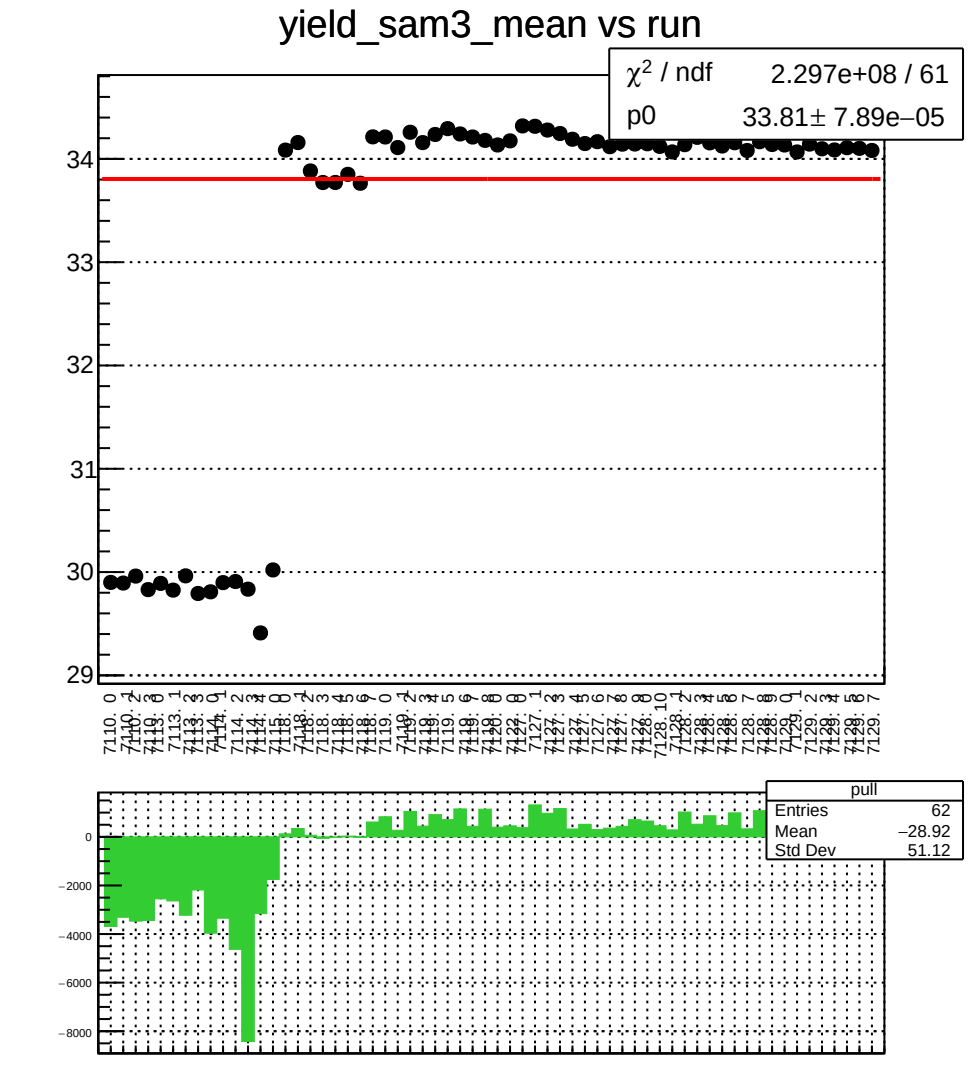

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

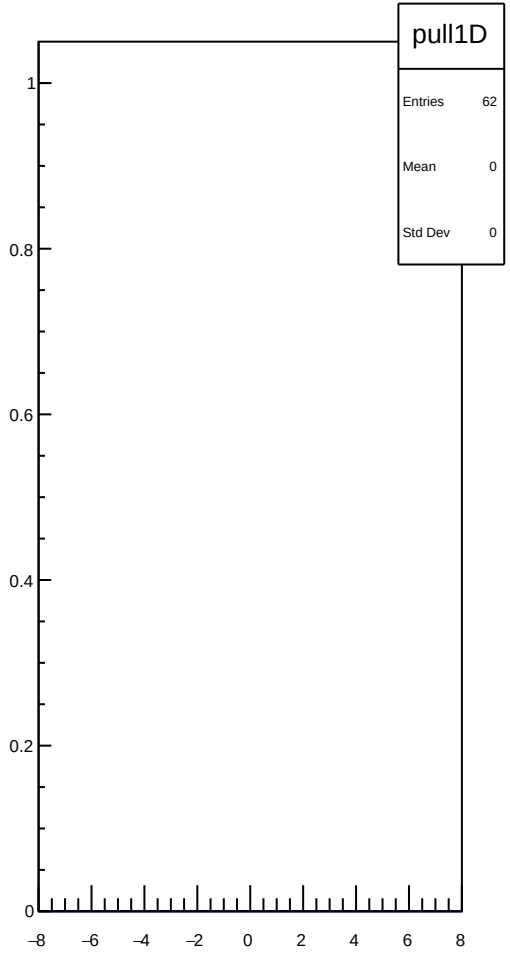

yield_sam1_rms vs run
χ² / ndf 5.125e+04 / 61
p0 0.0111 ± 1.04e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

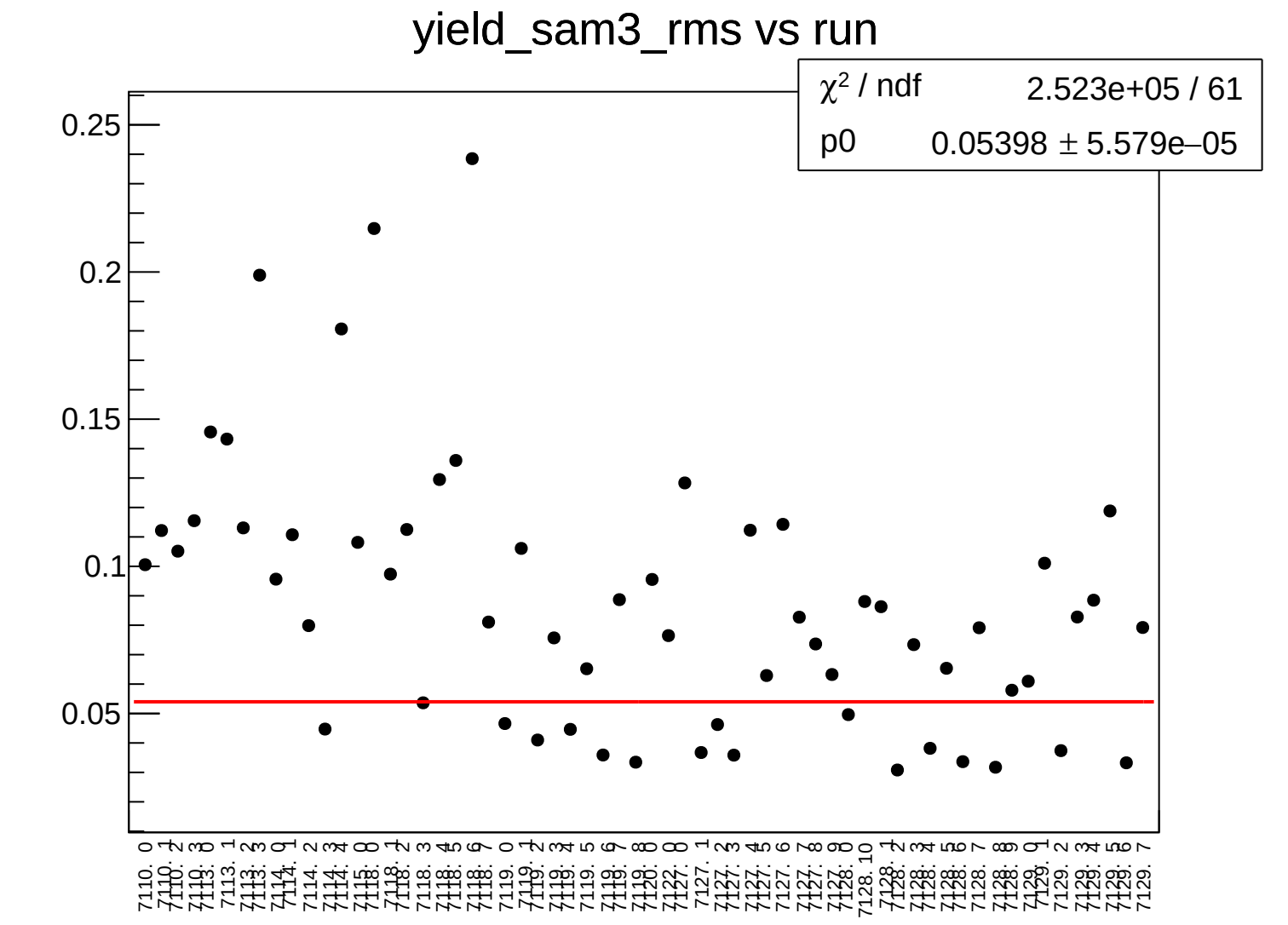

yield_sam2_mean vs run
χ² / ndf 4.194e+07 / 61
p0 27.37 ± 0.0001493
28
27.5
27
26.5
26
25.5
25
24.5
pull
Entries 62
Mean −66.88
Std Dev 90.55
500
0
−500
−1000
−1500
−2000
−2500
−3000

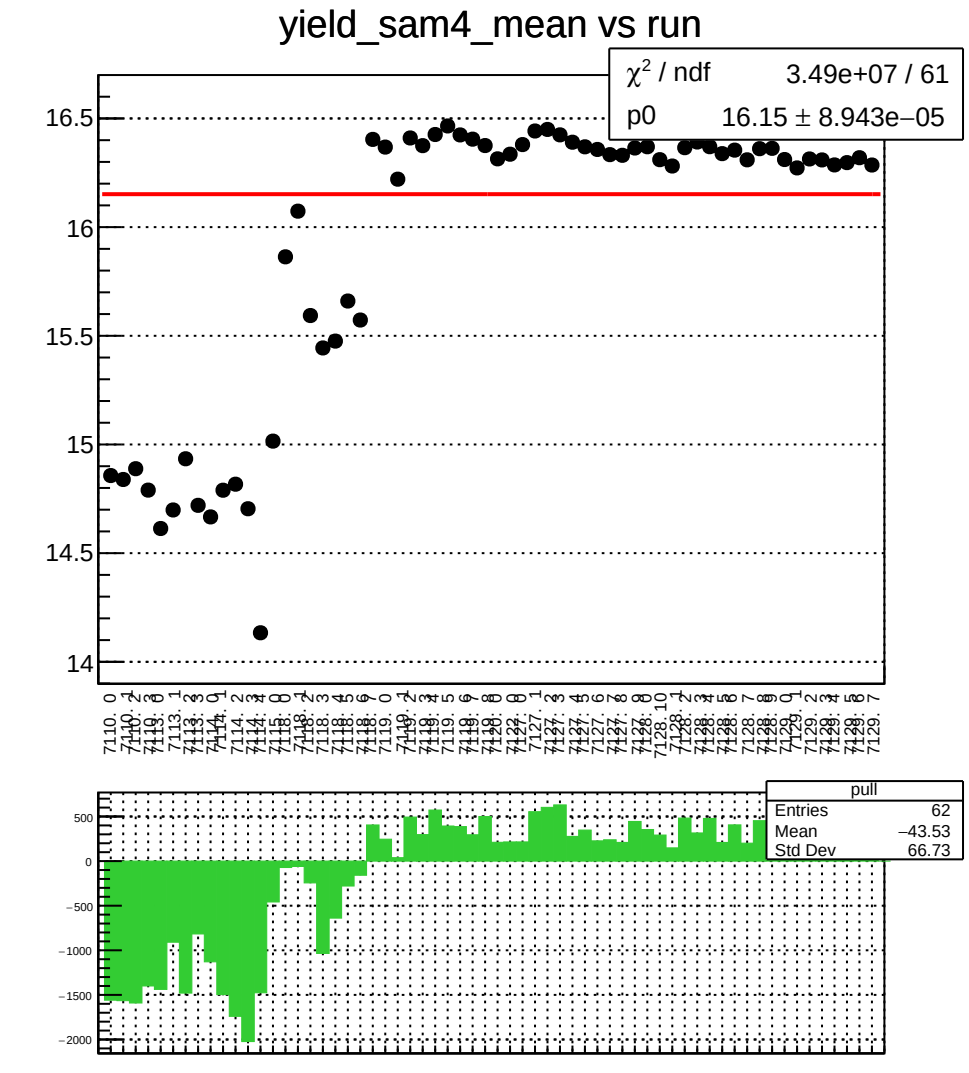

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

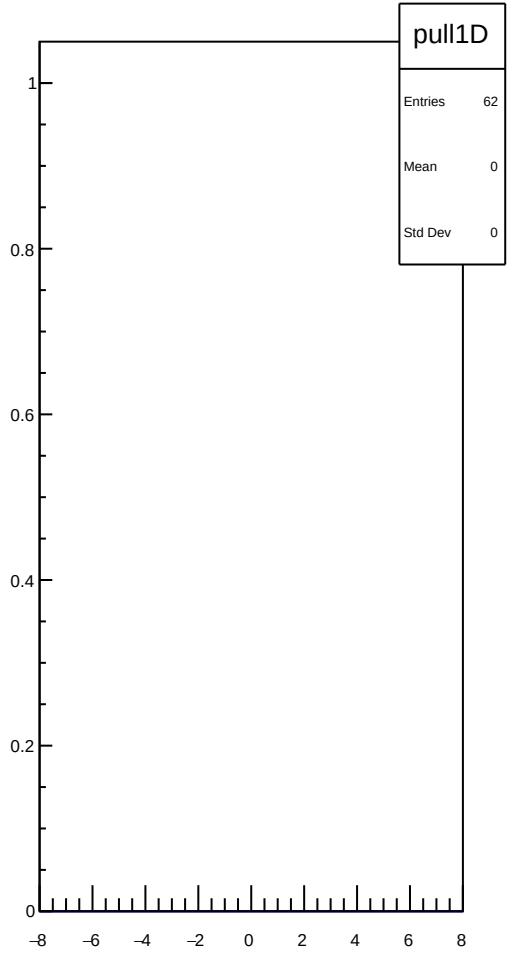

yield_sam2_rms vs run
χ² / ndf 1.379e+05 / 61
p0 0.1082 ± 0.0001056
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

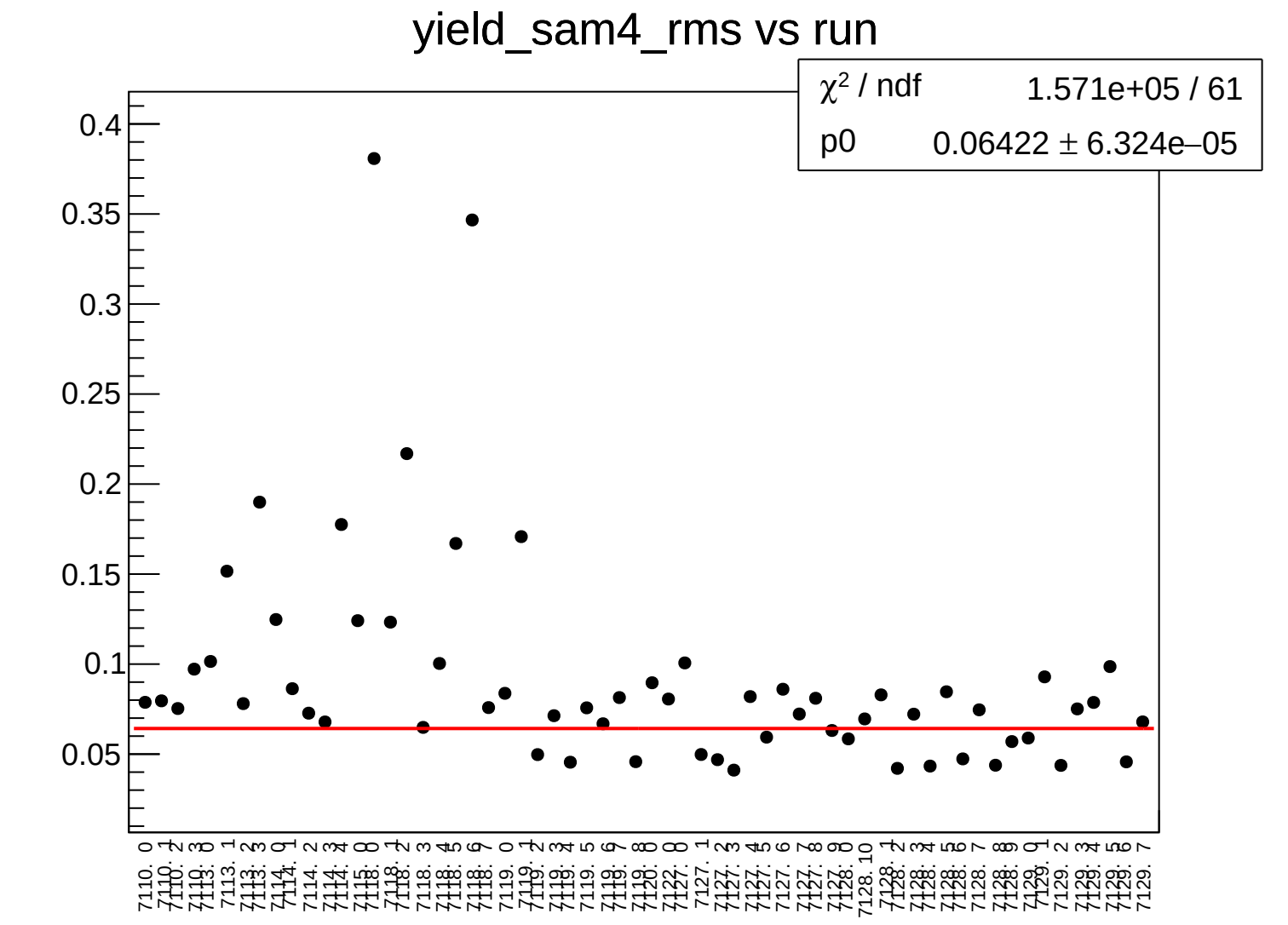

yield_sam3_mean vs run
χ² / ndf 2.297e+08 / 61
p0 33.81± 7.89e−05
pull
Entries 62
Mean −28.92
Std Dev 51.12

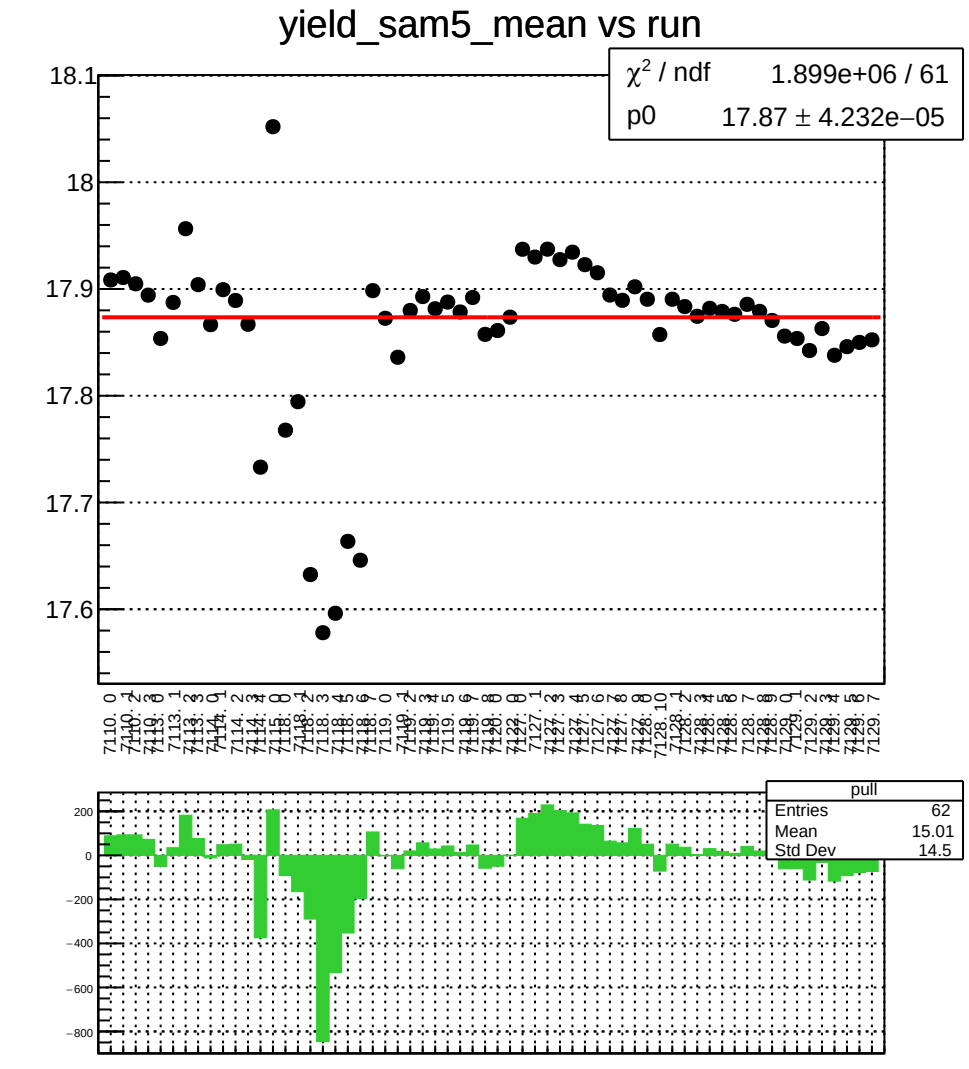

pull1D
Entries 62
Mean 0
Std Dev 0

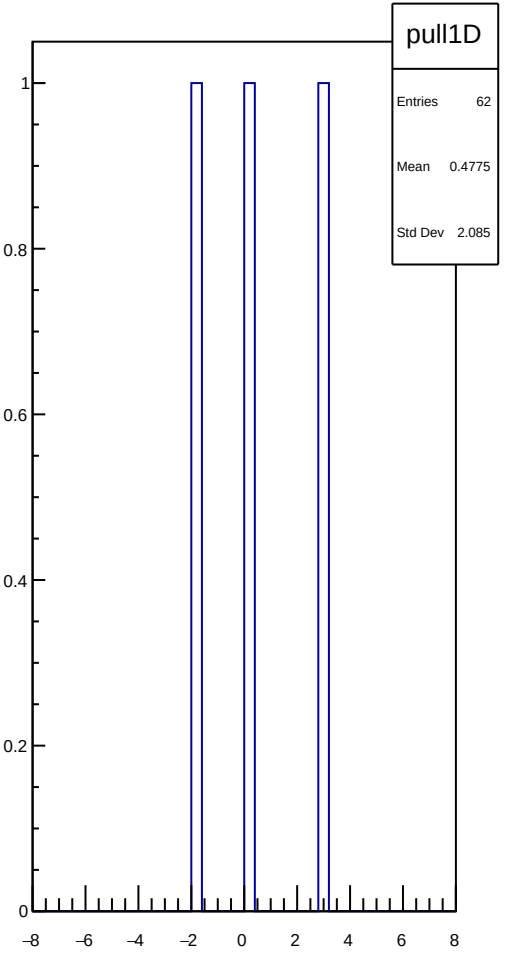

yield_sam3_rms vs run
χ² / ndf 2.523e+05 / 61
p0 0.05398 ± 5.579e–05
0.25
0.2
0.15
0.1
0.05

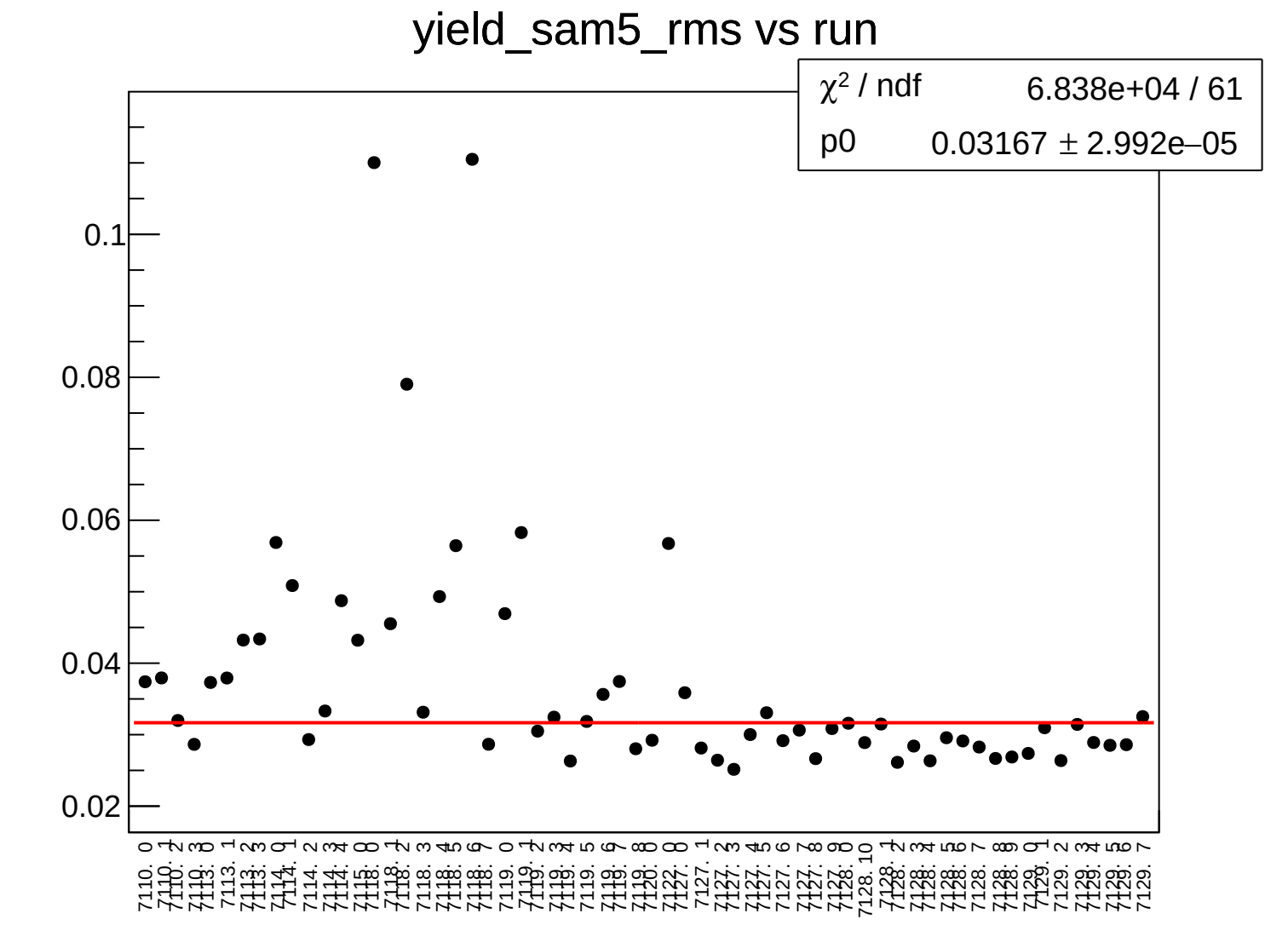

yield_sam4_mean vs run
χ² / ndf 3.49e+07 / 61
p0 16.15 ± 8.943e−05
16.5
16
15.5
15
14.5
14
pull
Entries 62
Mean −43.53
Std Dev 66.73
500
0
−500
−1000
−1500
−2000

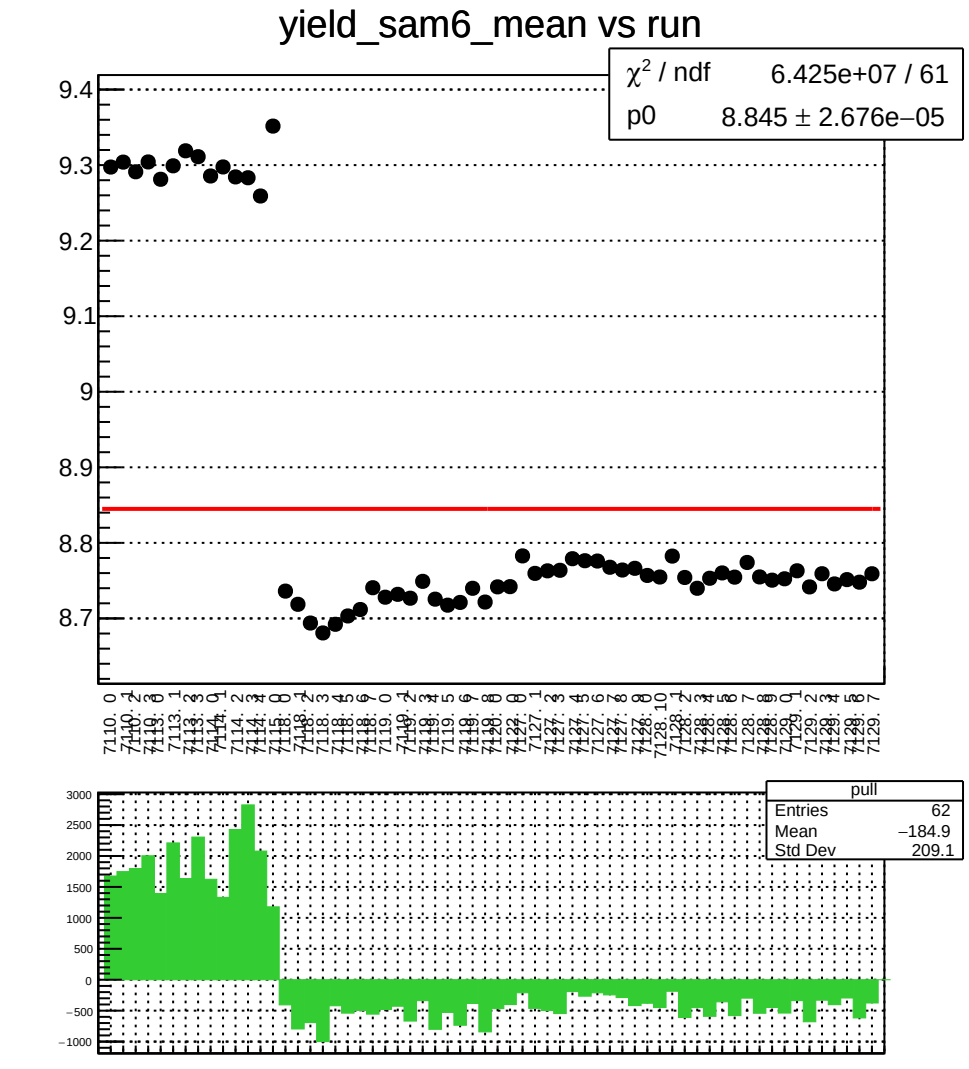

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

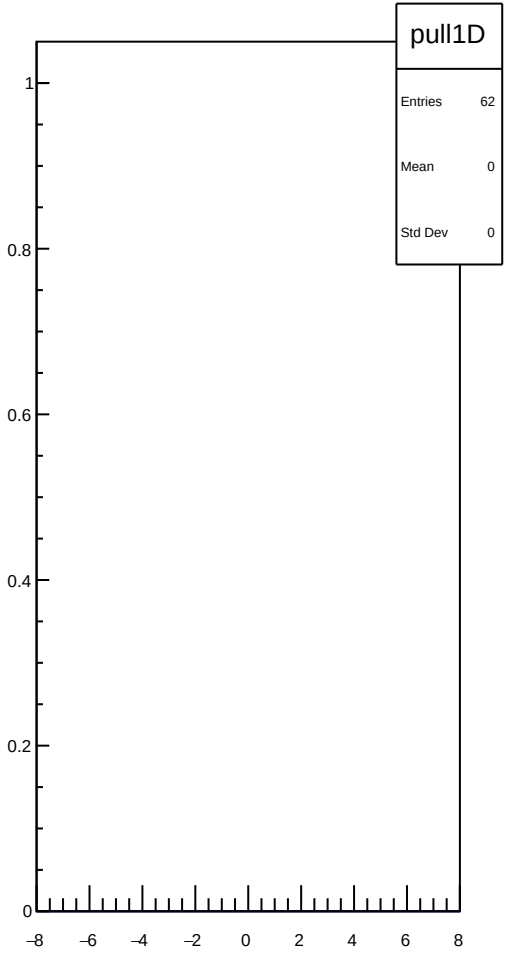

yield_sam4_rms vs run
χ² / ndf 1.571e+05 / 61
p0 0.06422 ± 6.324e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

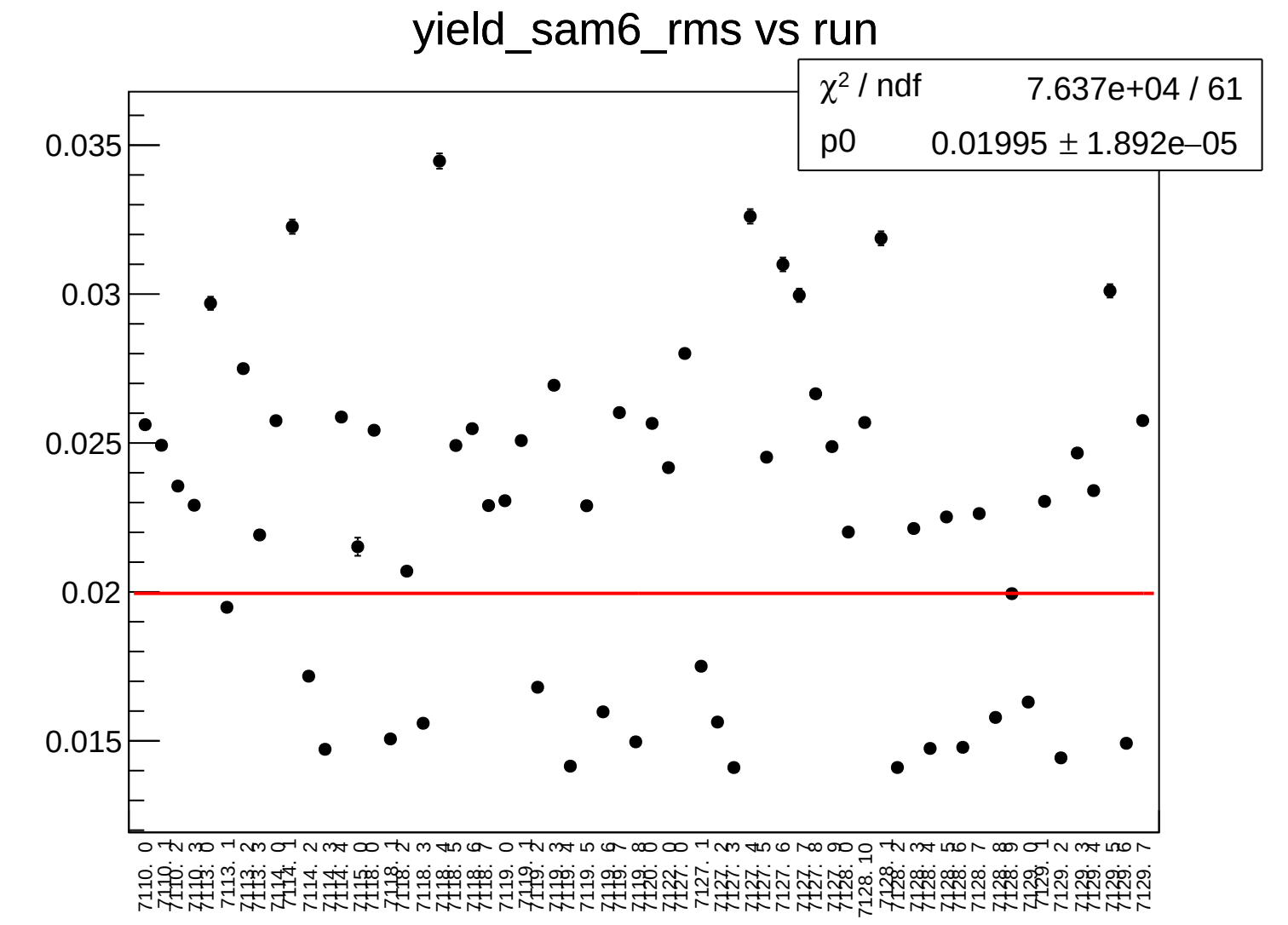

yield_sam5_mean vs run
χ² / ndf 1.899e+06 / 61
p0 17.87 ± 4.232e−05
18.1
18
17.9
17.8
17.7
17.6
pull
Entries 62
Mean 15.01
Std Dev 14.5
200
0
−200
−400
−600
−800

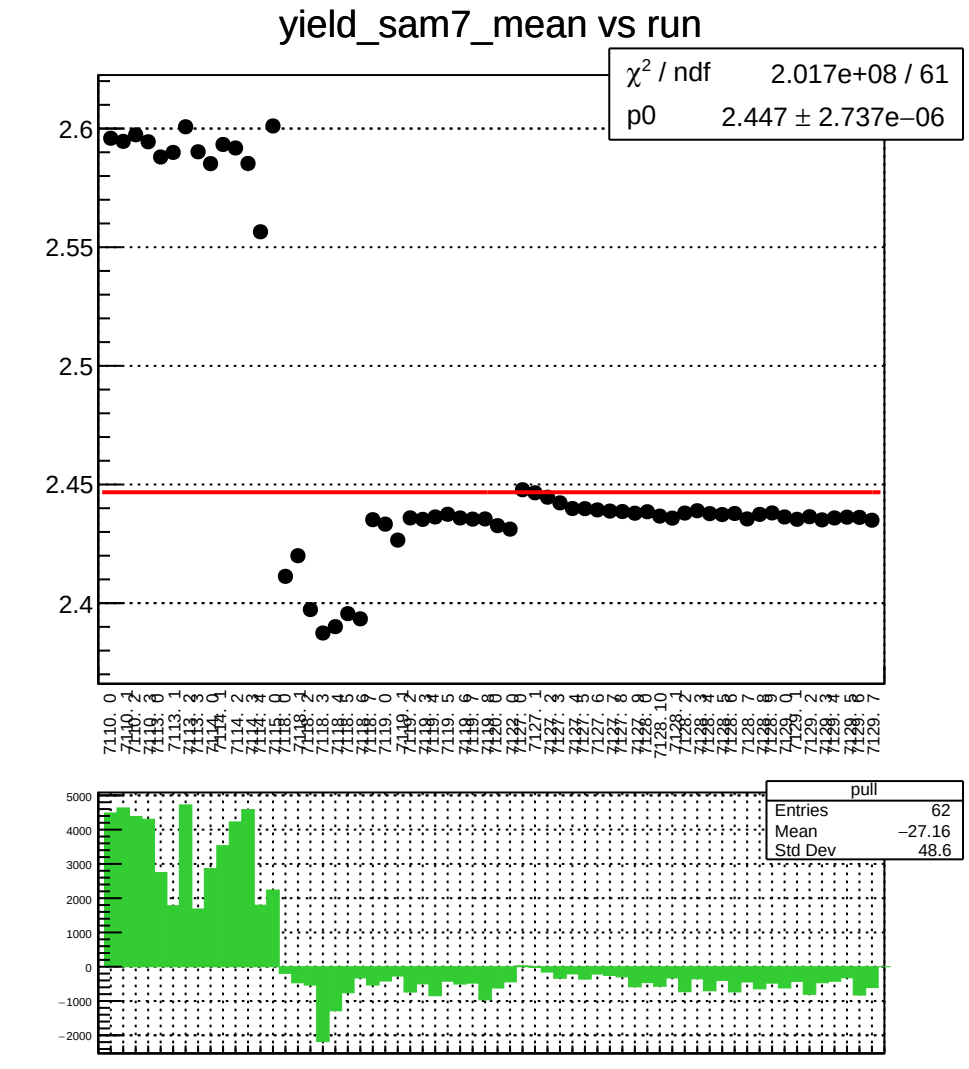

pull1D
Entries 62
Mean 0.4775
Std Dev 2.085
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

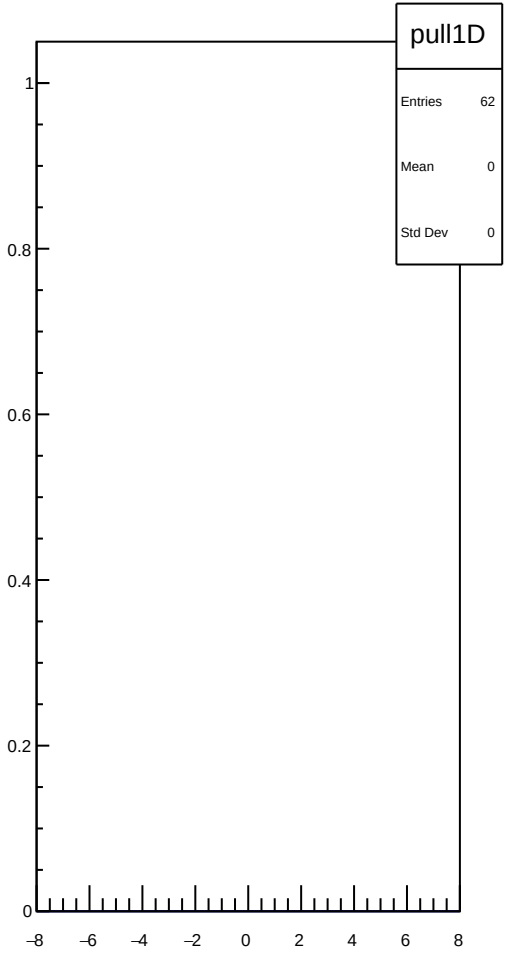

yield_sam5_rms vs run
χ² / ndf 6.838e+04 / 61
p0 0.03167 ± 2.992e–05
0.1
0.08
0.06
0.04
0.02

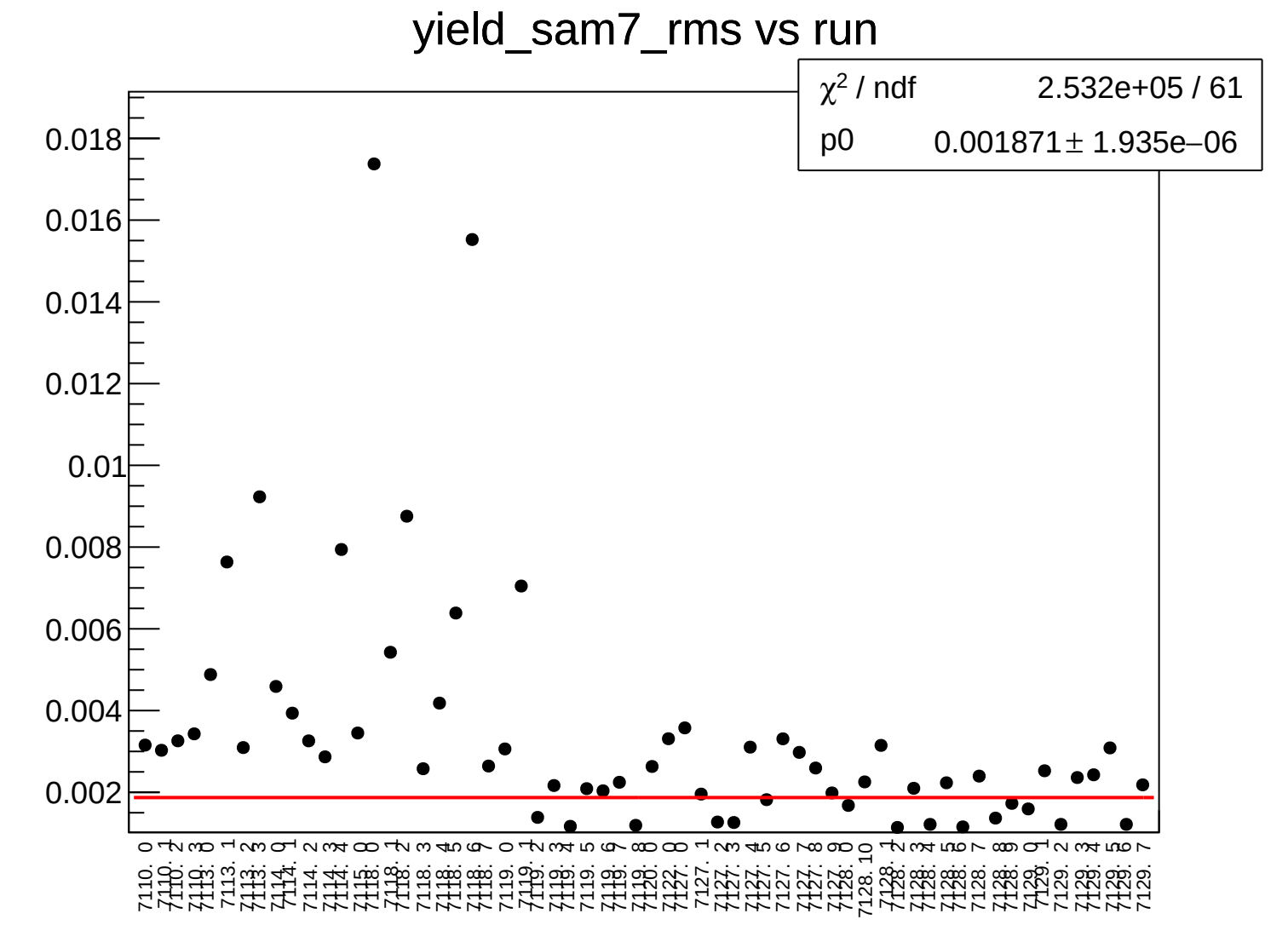

yield_sam6_mean vs run
χ² / ndf 6.425e+07 / 61
p0 8.845 ± 2.676e−05
pull
Entries 62
Mean −184.9
Std Dev 209.1

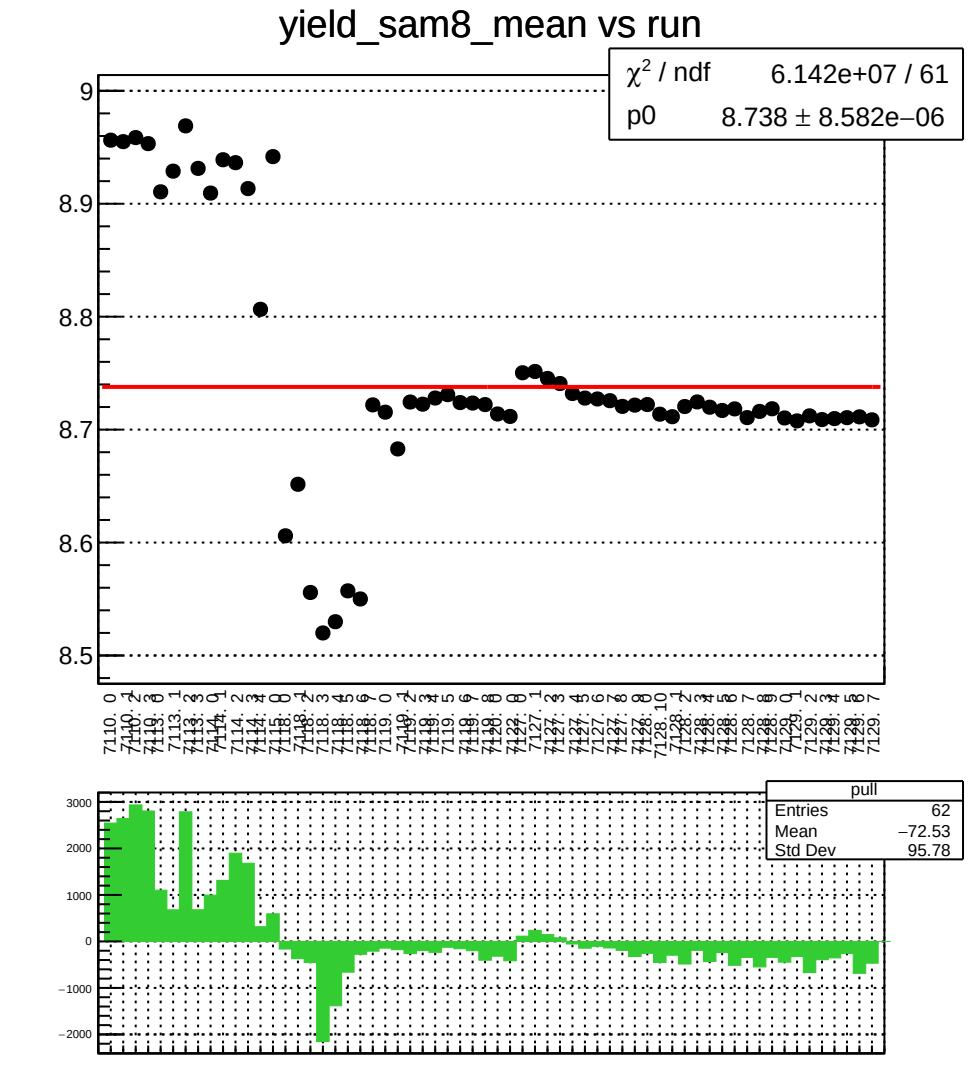

pull1D
Entries 62
Mean 0
Std Dev 0

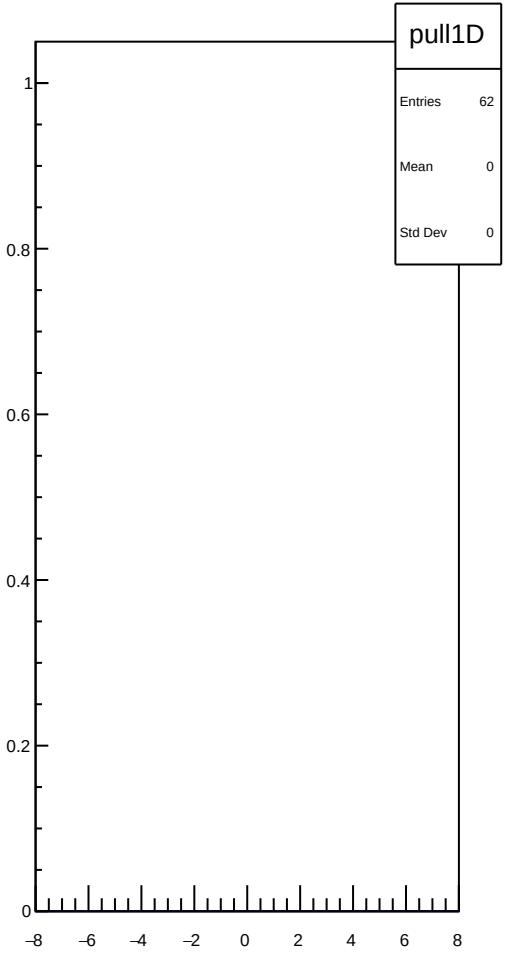

yield_sam6_rms vs run
χ² / ndf 7.637e+04 / 61
p0 0.01995 ± 1.892e−05
0.035
0.03
0.025
0.02
0.015

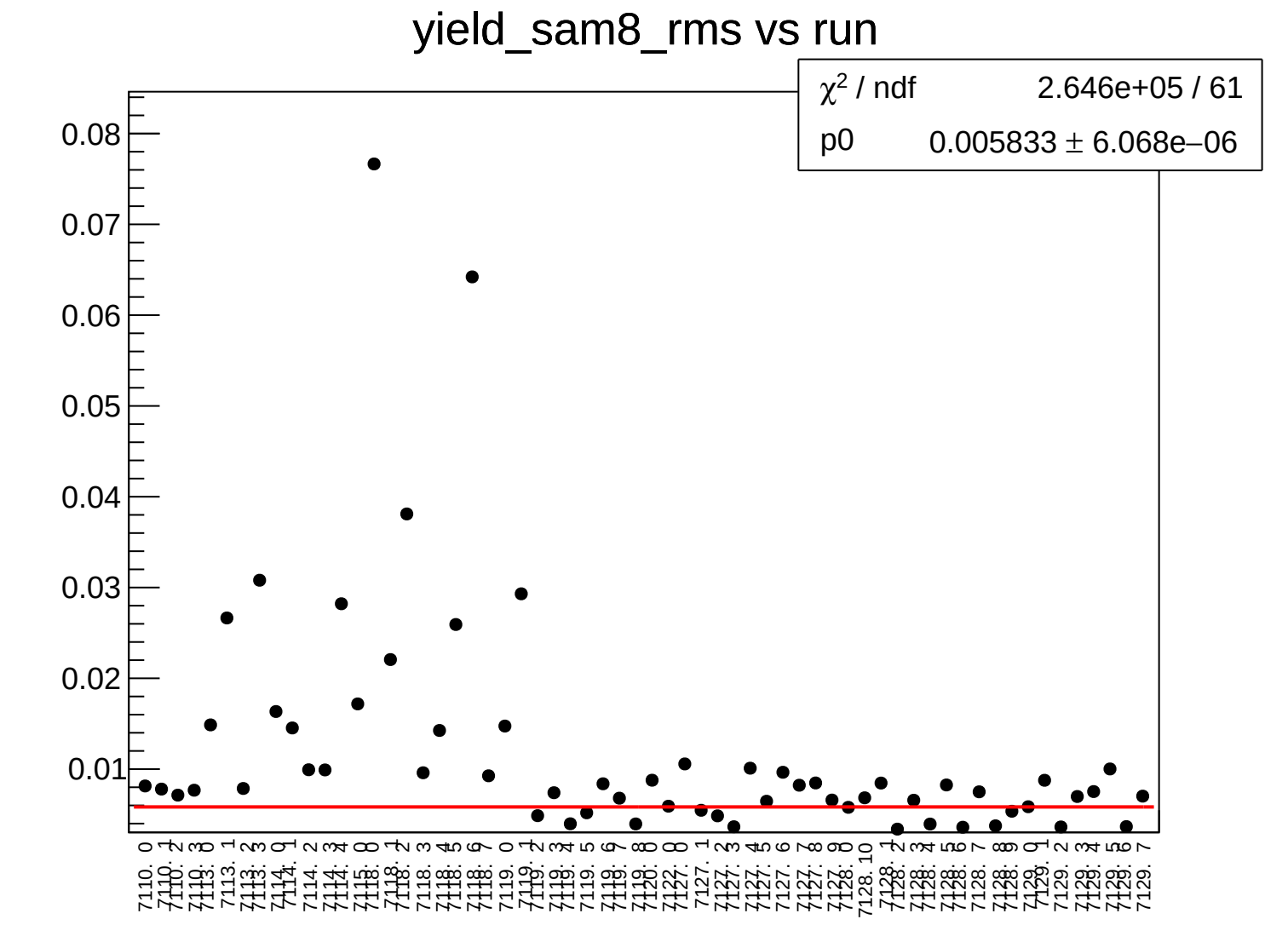

yield_sam7_mean vs run
χ² / ndf 2.017e+08 / 61
p0 2.447 ± 2.737e−06
2.6
2.55
2.5
2.45
2.4
pull
Entries 62
Mean −27.16
Std Dev 48.6
5000
4000
3000
2000
1000
0
−1000
−2000

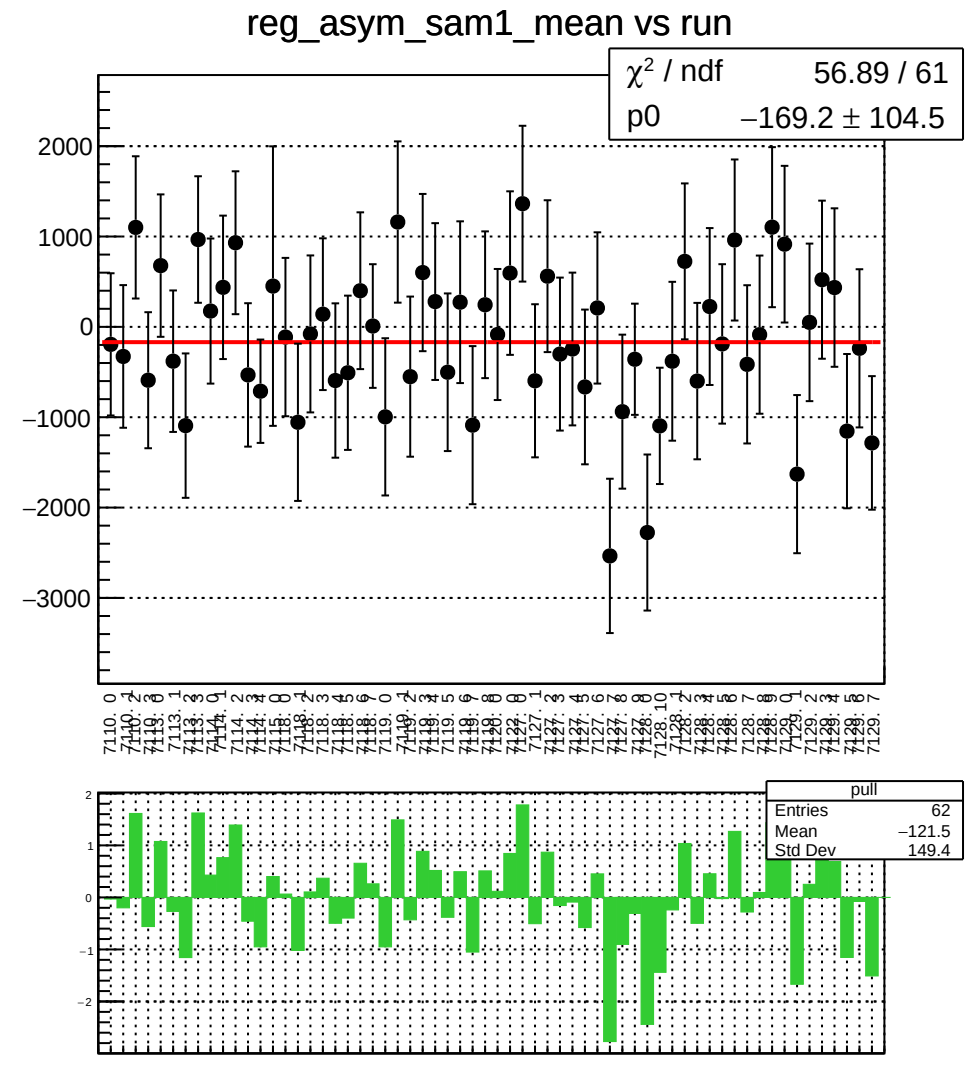

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

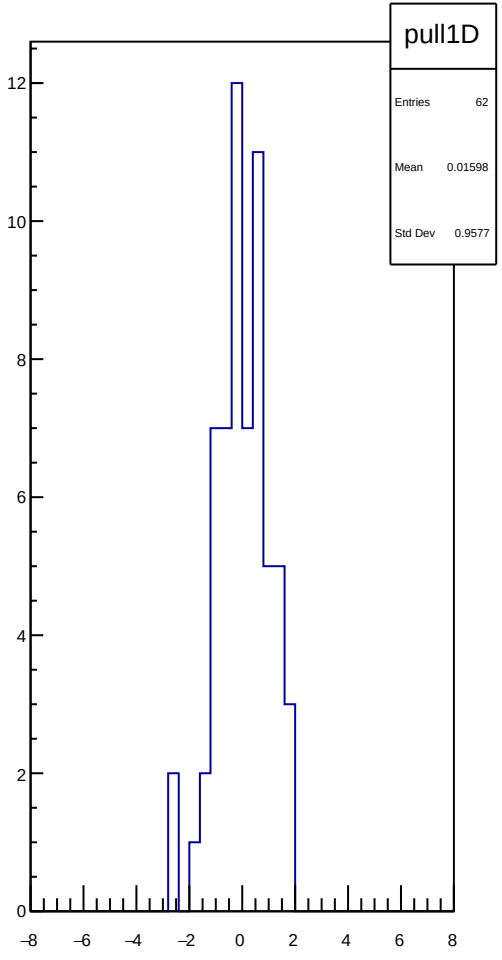

yield_sam7_rms vs run
χ² / ndf 2.532e+05 / 61
p0 0.001871 ± 1.935e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

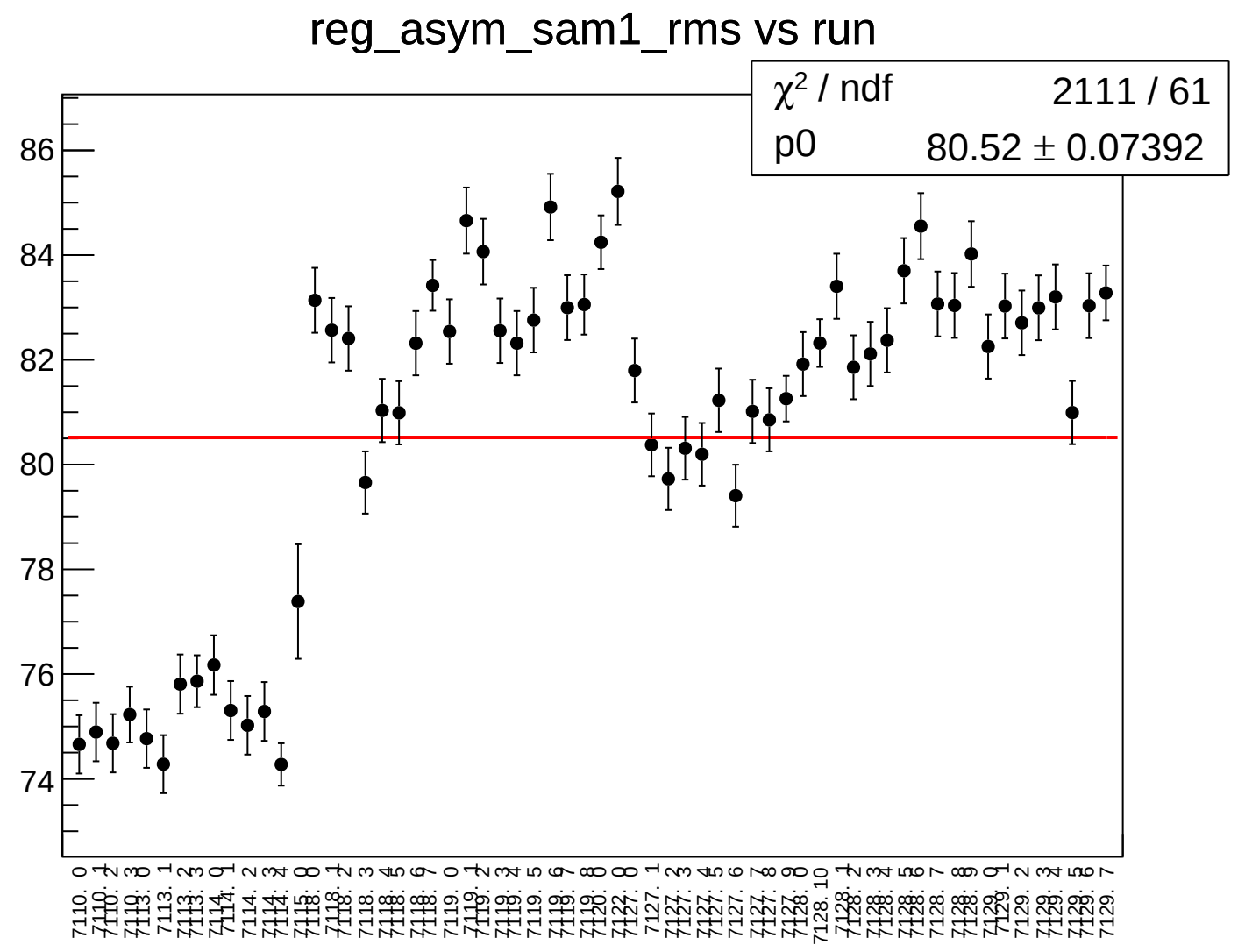

yield_sam8_mean vs run
χ² / ndf 6.142e+07 / 61
p0 8.738 ± 8.582e−06
pull
Entries 62
Mean −72.53
Std Dev 95.78

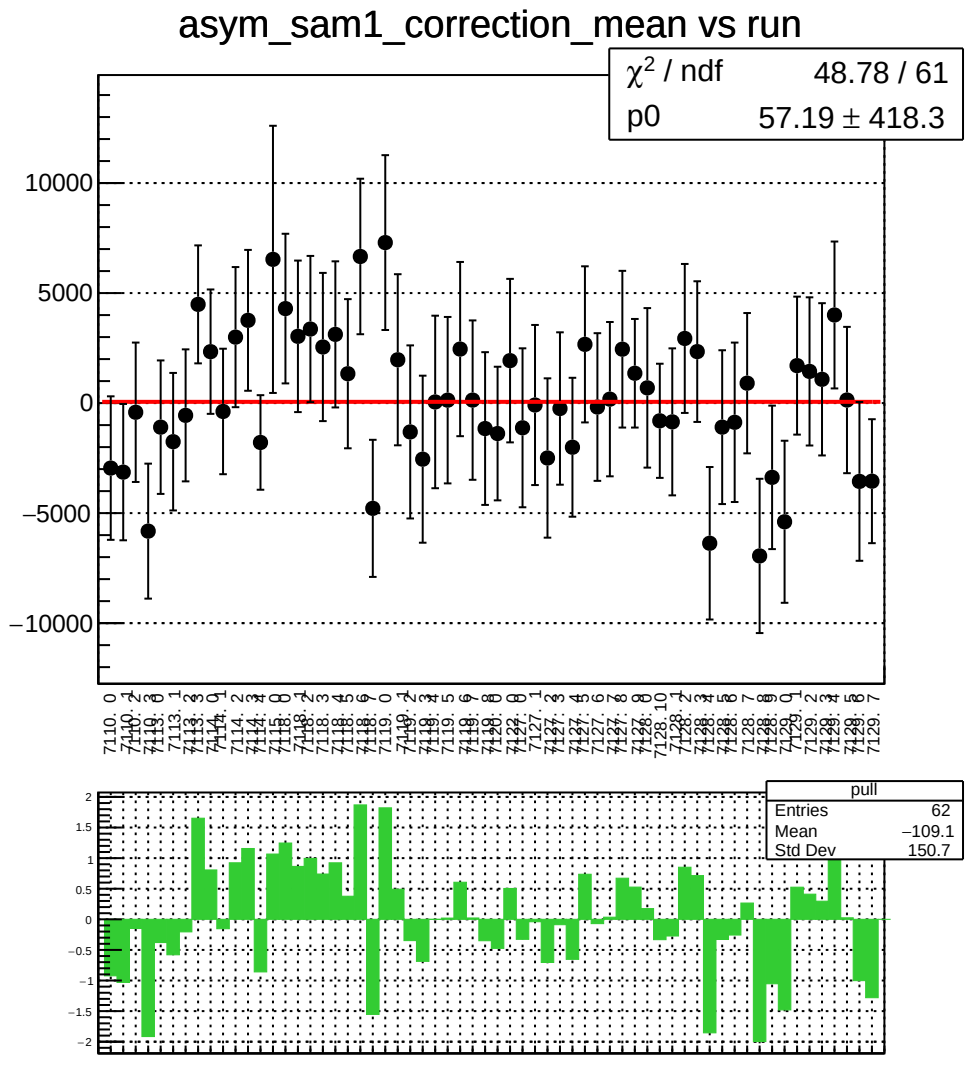

pull1D
Entries 62
Mean 0
Std Dev 0

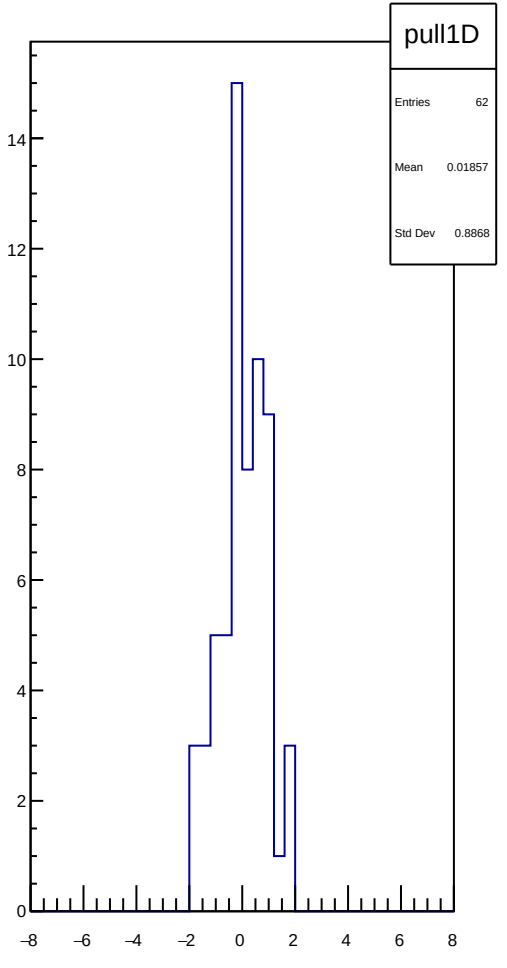

yield_sam8_rms vs run
χ² / ndf 2.646e+05 / 61
p0 0.005833 ± 6.068e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

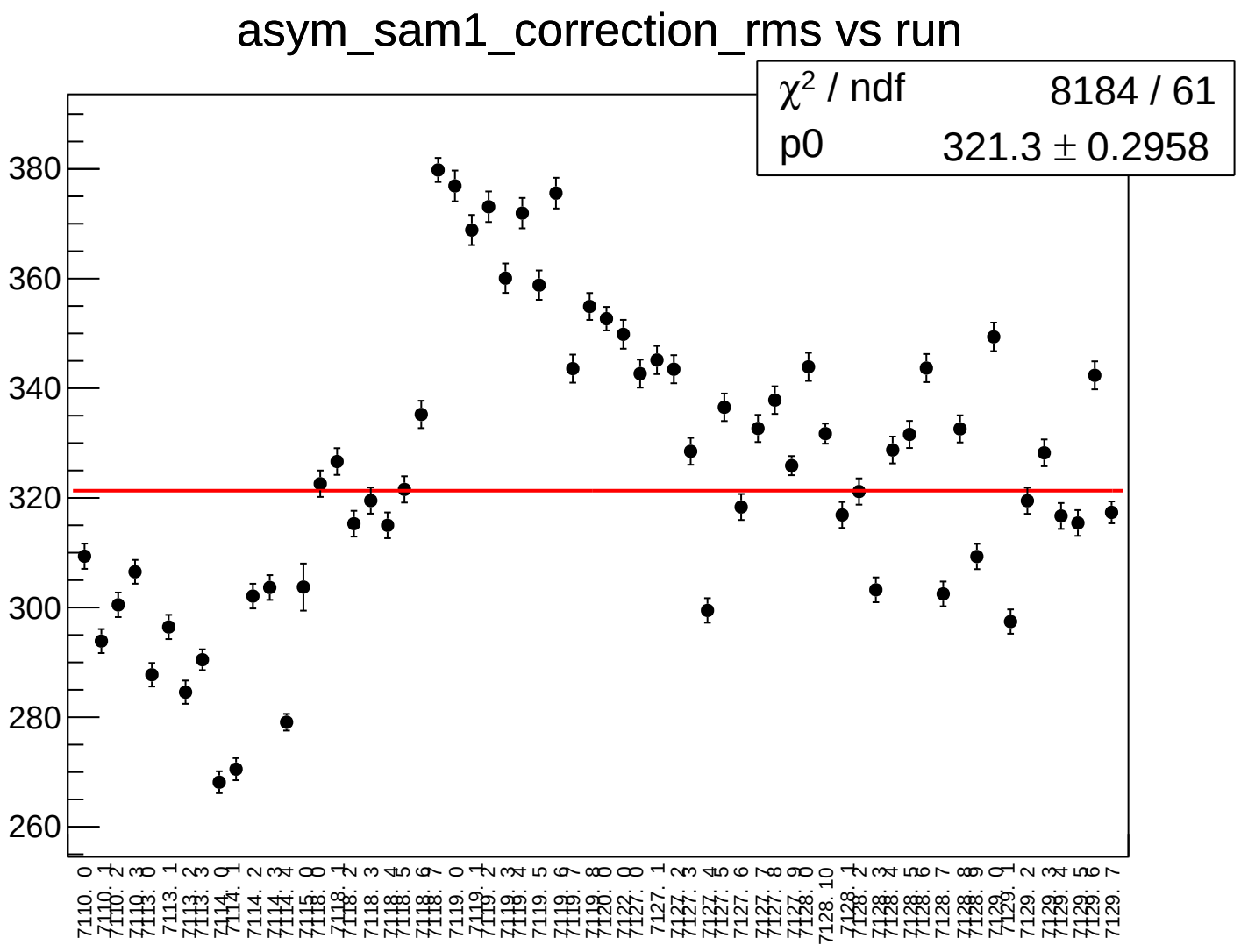

reg_asym_sam1_mean vs run
χ² / ndf 56.89 / 61
p0 −169.2 ± 104.5
pull
Entries 62
Mean −121.5
Std Dev 149.4

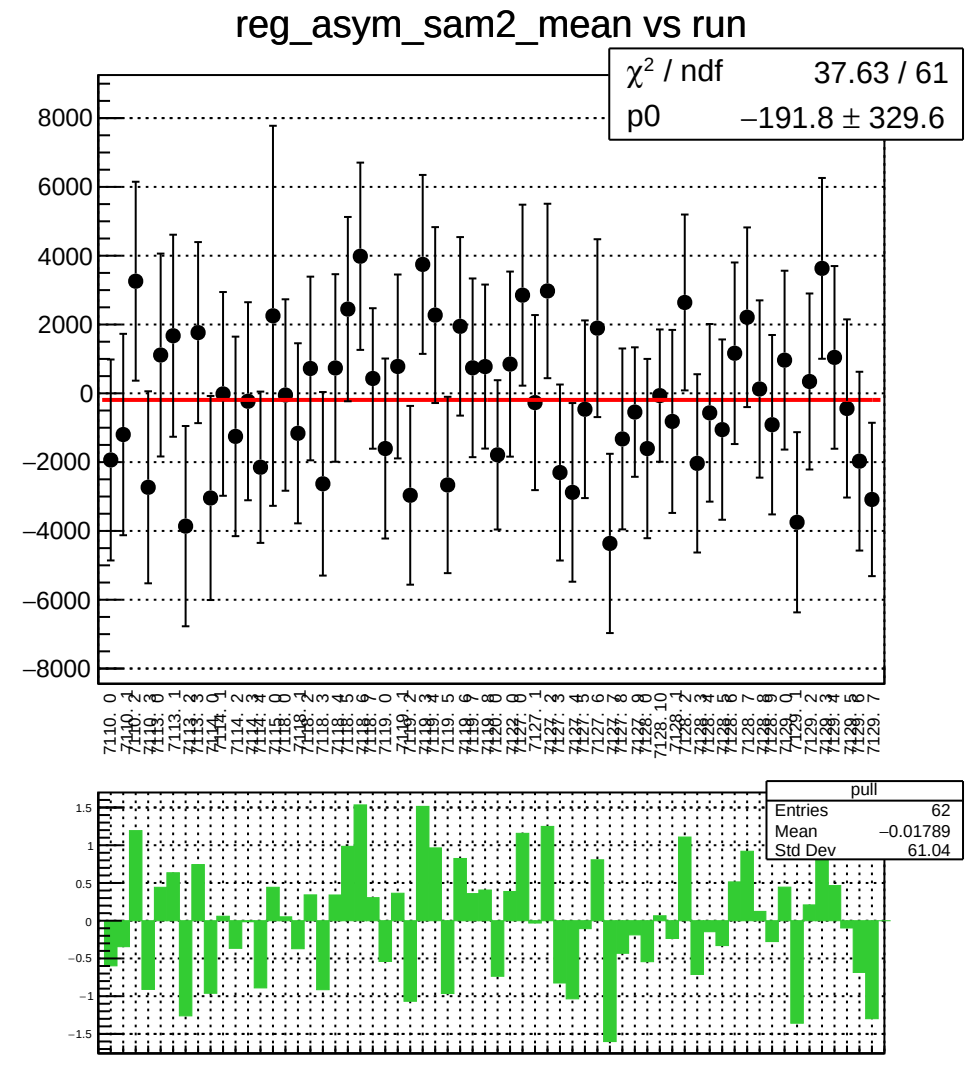

pull1D
Entries 62
Mean 0.01598
Std Dev 0.9577

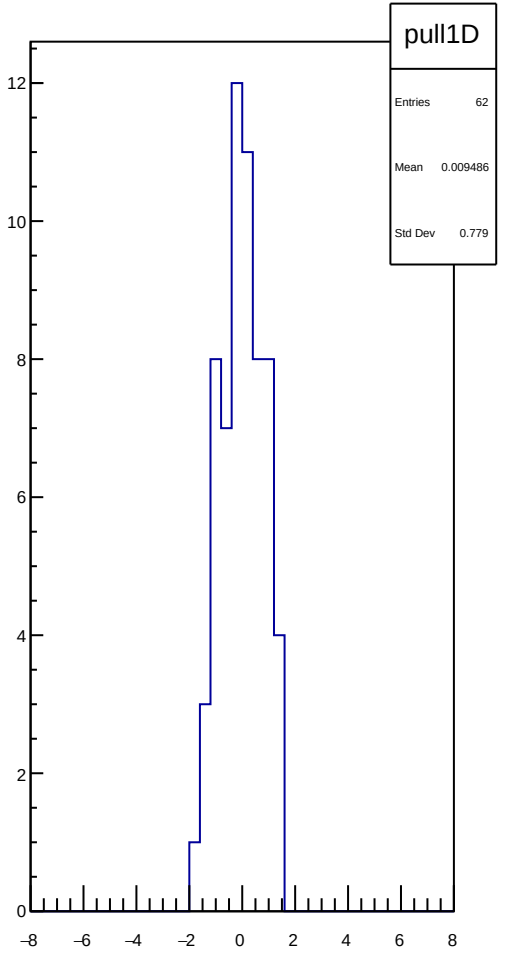

reg_asym_sam1_rms vs run
χ² / ndf 2111 / 61
p0 80.52 ± 0.07392
86
84
82
80
78
76
74

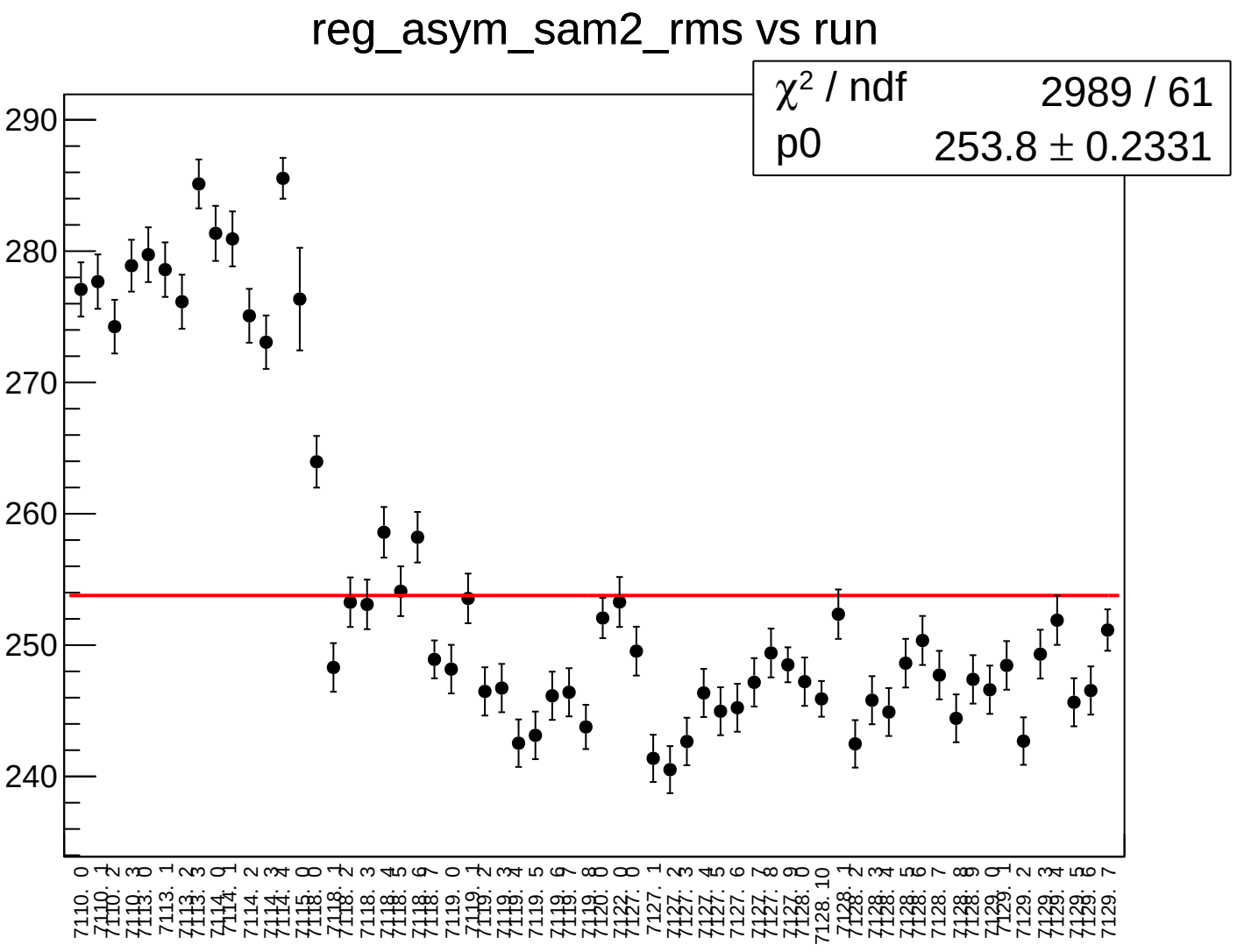

asym_sam1_correction_mean vs run
χ² / ndf 48.78 / 61
p0 57.19 ± 418.3
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −109.1
Std Dev 150.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

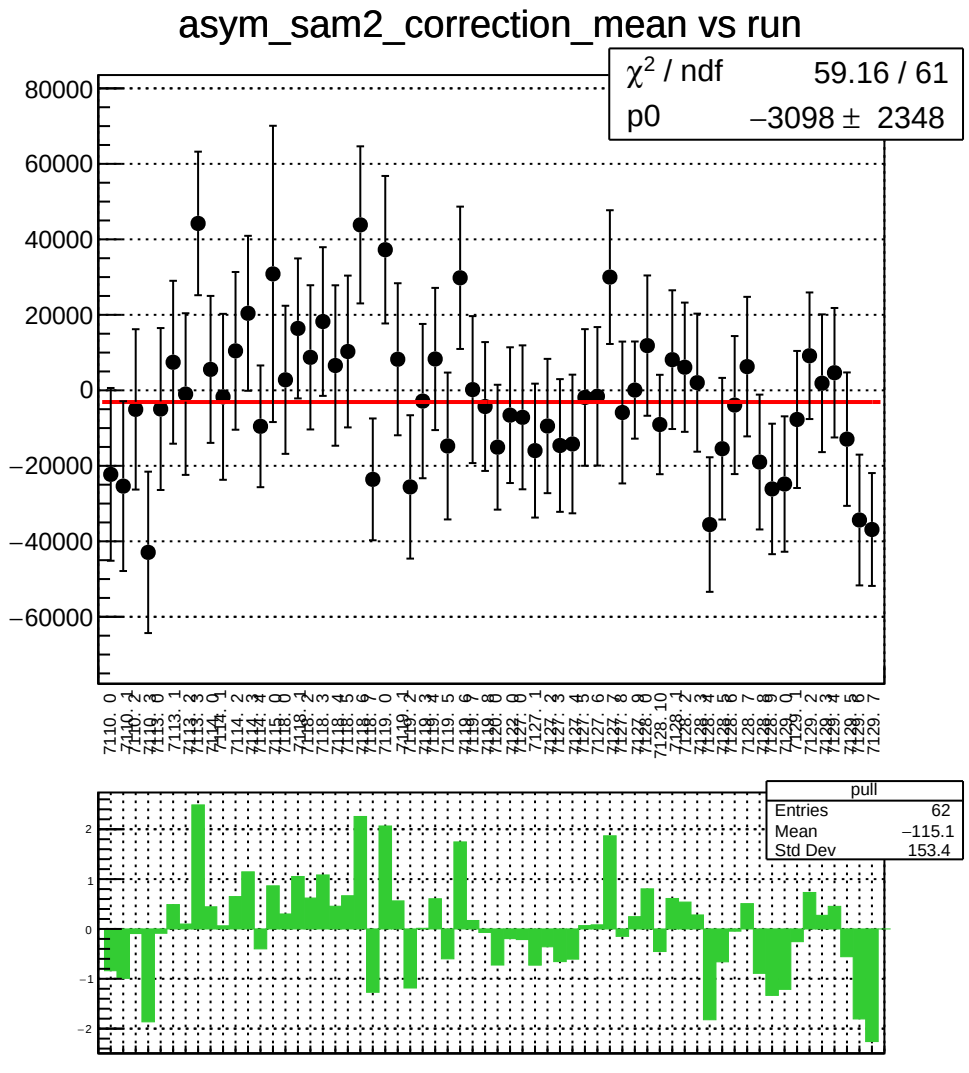

pull1D
Entries 62
Mean 0.01857
Std Dev 0.8868
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

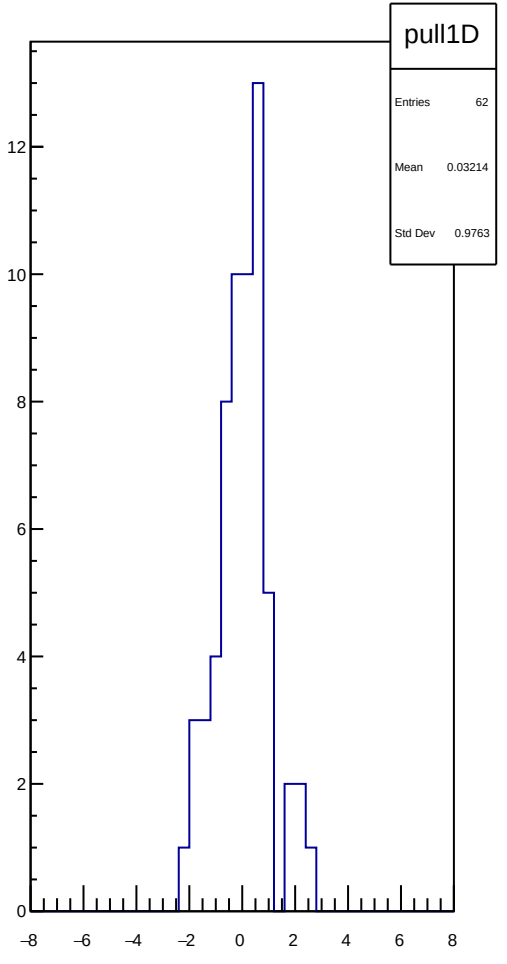

asym_sam1_correction_rms vs run
χ² / ndf 8184 / 61
p0 321.3 ± 0.2958
380
360
340
320
300
280
260
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

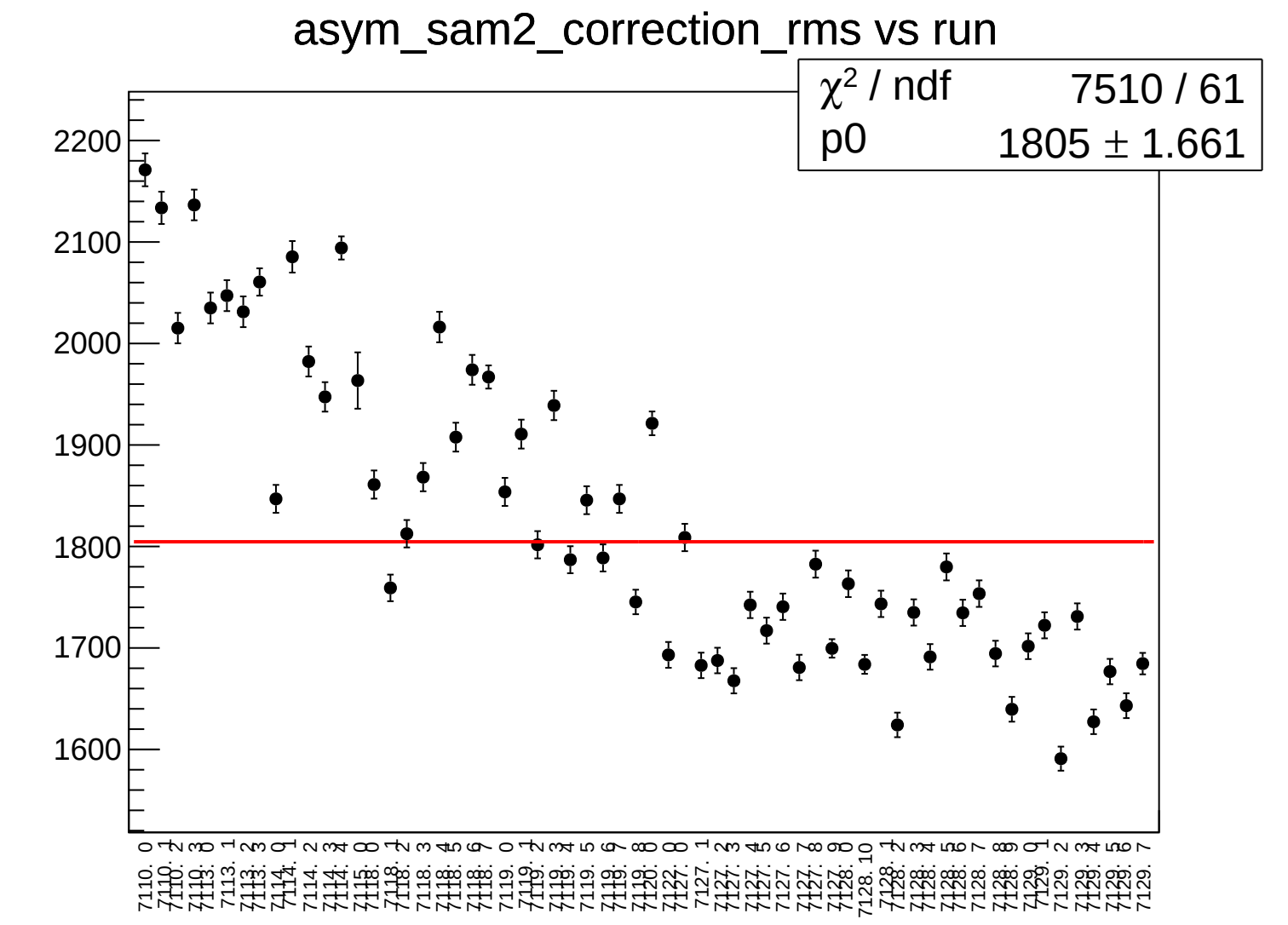

reg_asym_sam2_mean vs run
χ² / ndf 37.63 / 61
p0 −191.8 ± 329.6
pull
Entries 62
Mean −0.01789
Std Dev 61.04

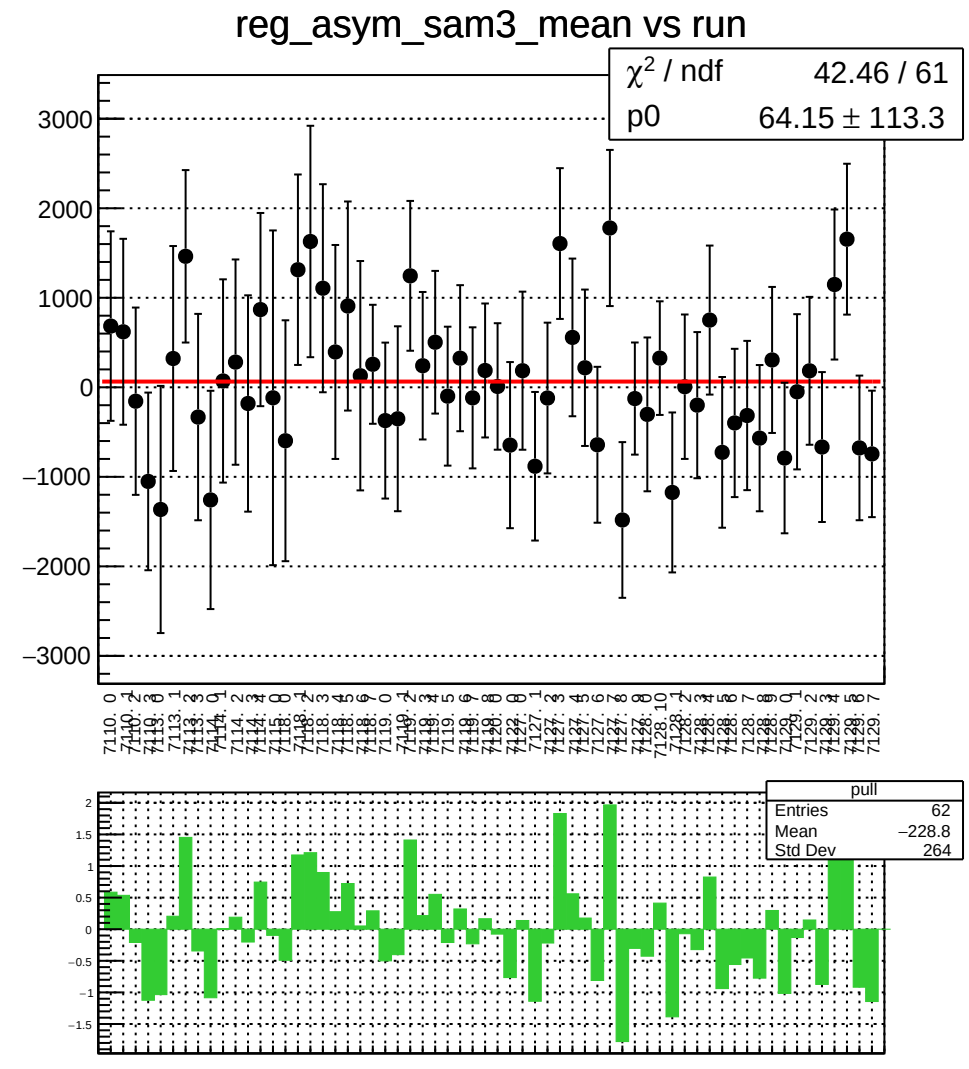

pull1D
Entries 62
Mean 0.009486
Std Dev 0.779

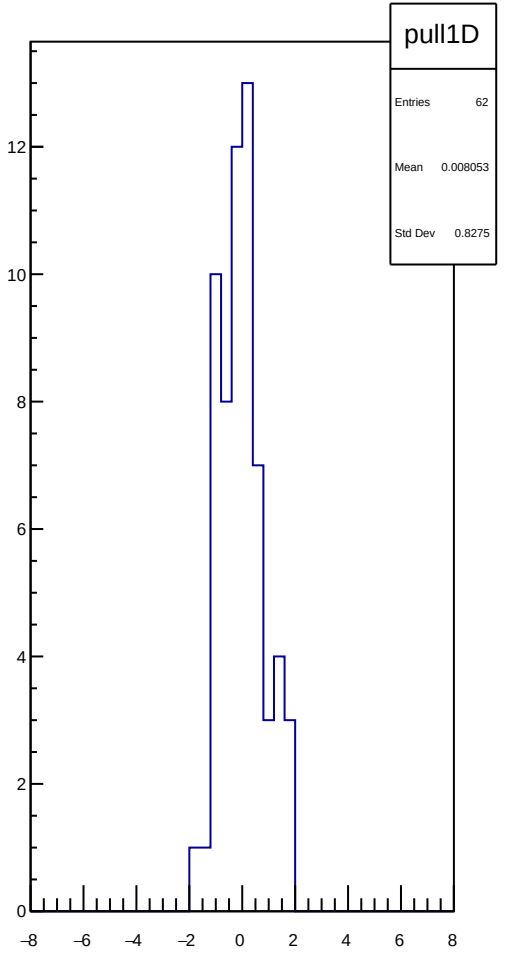

reg_asym_sam2_rms vs run
χ² / ndf 2989 / 61
p0 253.8 ± 0.2331
290
280
270
260
250
240

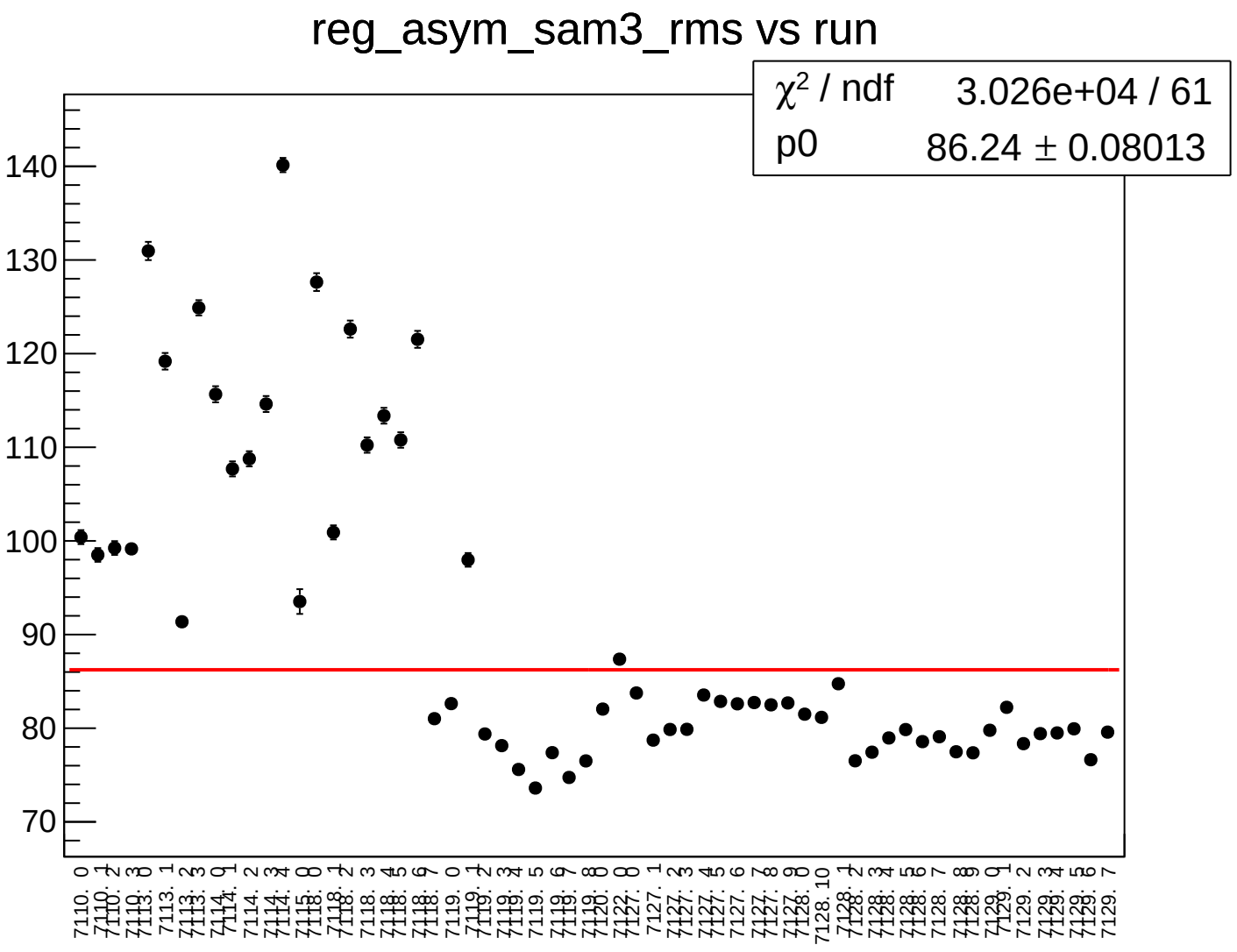

asym_sam2_correction_mean vs run
χ² / ndf 59.16 / 61
p0 −3098 ± 2348
pull
Entries 62
Mean −115.1
Std Dev 153.4

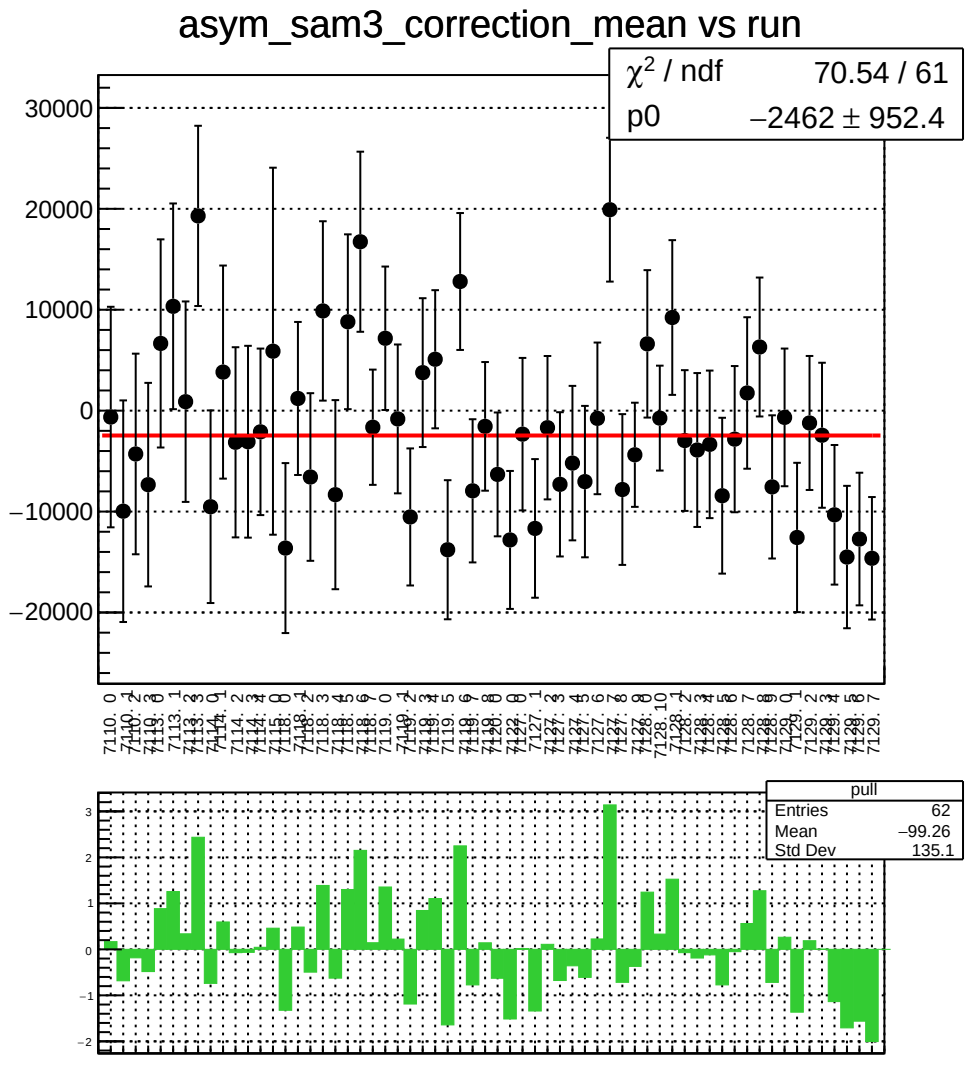

pull1D
Entries 62
Mean 0.03214
Std Dev 0.9763

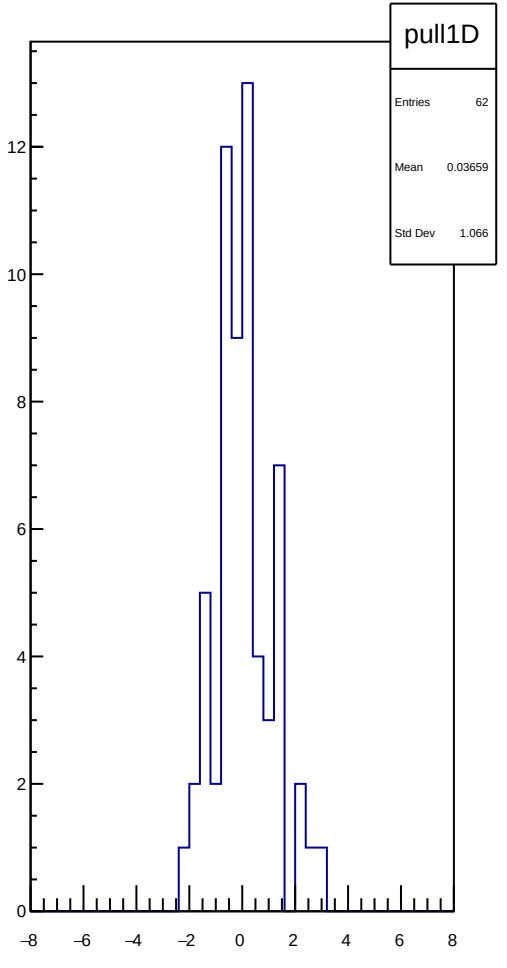

asym_sam2_correction_rms vs run
χ² / ndf 7510 / 61
p0 1805 ± 1.661
2200
2100
2000
1900
1800
1700
1600
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

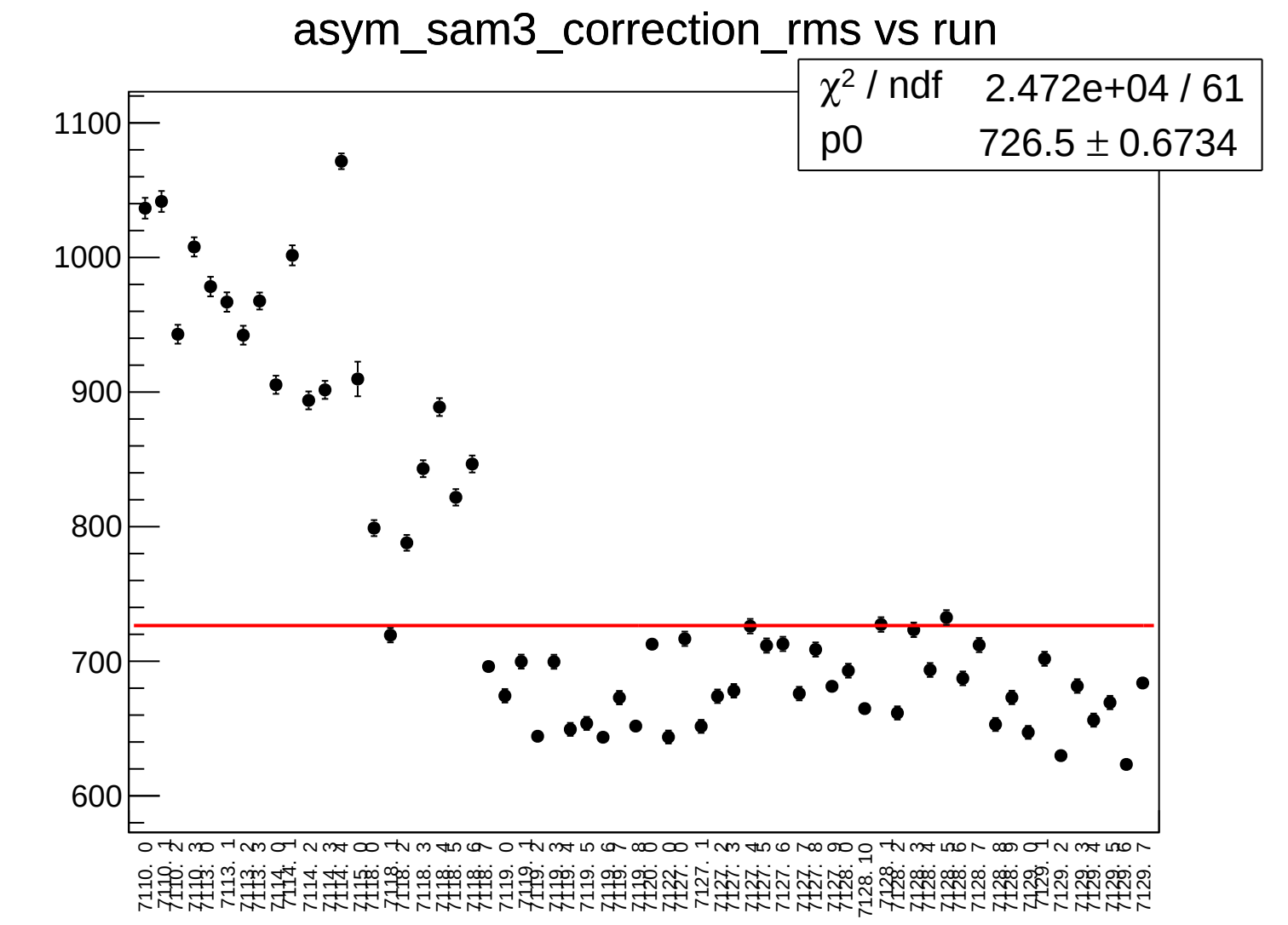

reg_asym_sam3_mean vs run
χ² / ndf 42.46 / 61
p0 64.15 ± 113.3
pull
Entries 62
Mean −228.8
Std Dev 264

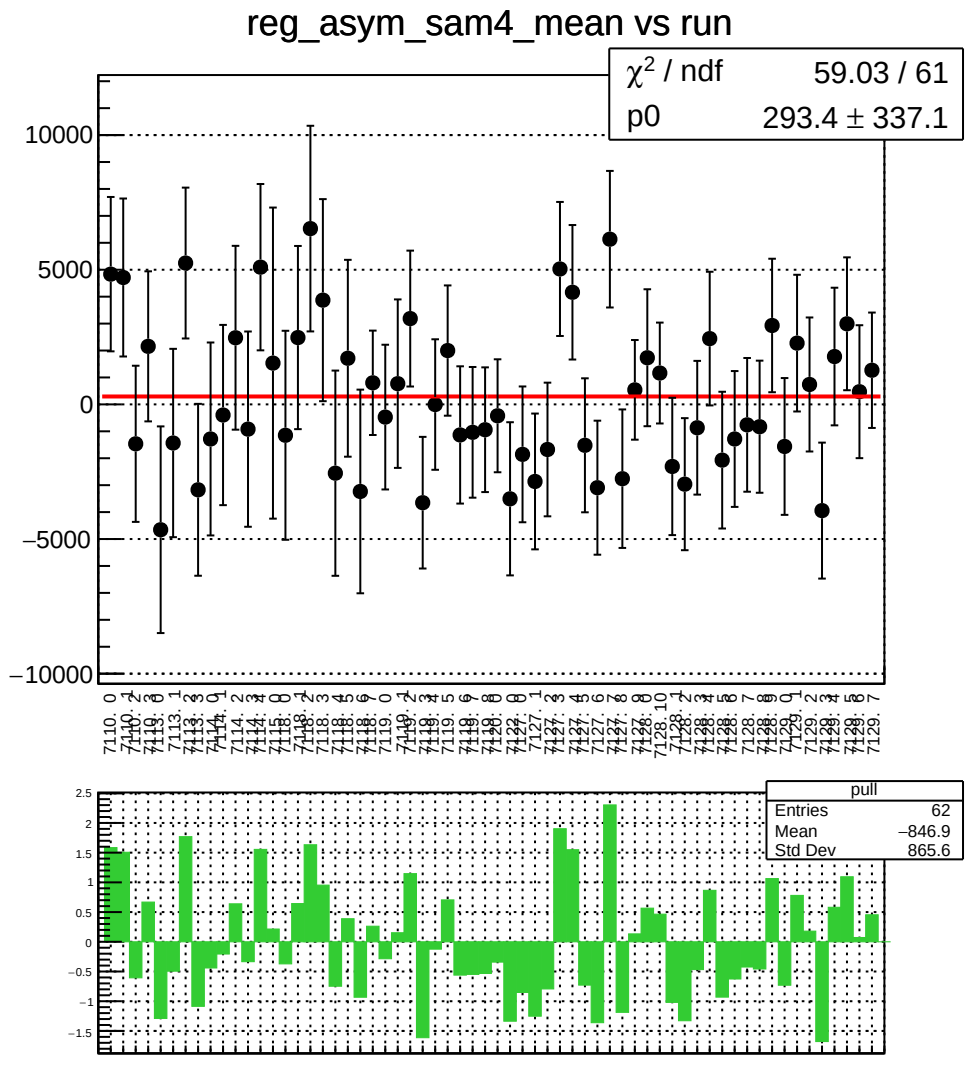

pull1D
Entries 62
Mean 0.008053
Std Dev 0.8275

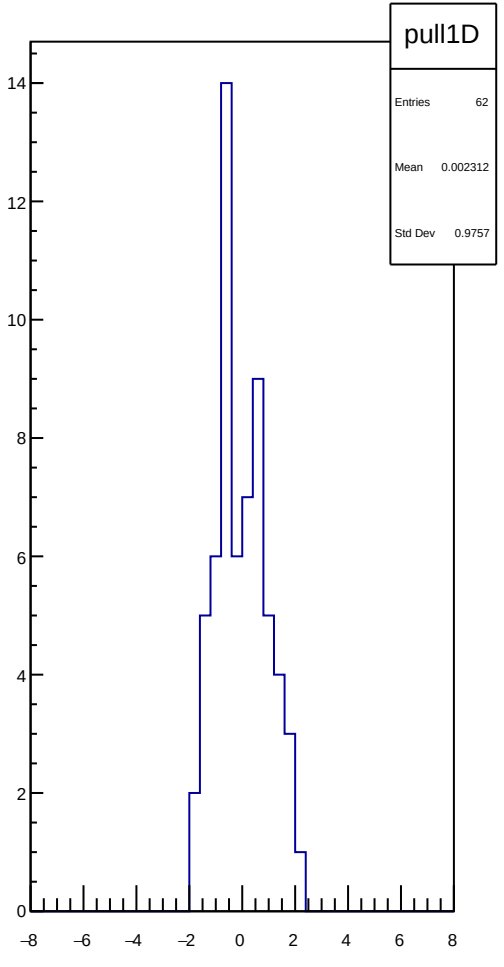

reg_asym_sam3_rms vs run
χ^2 / ndf 3.026e+04 / 61
p0 86.24 ± 0.08013
140
130
120
110
100
90
80
70

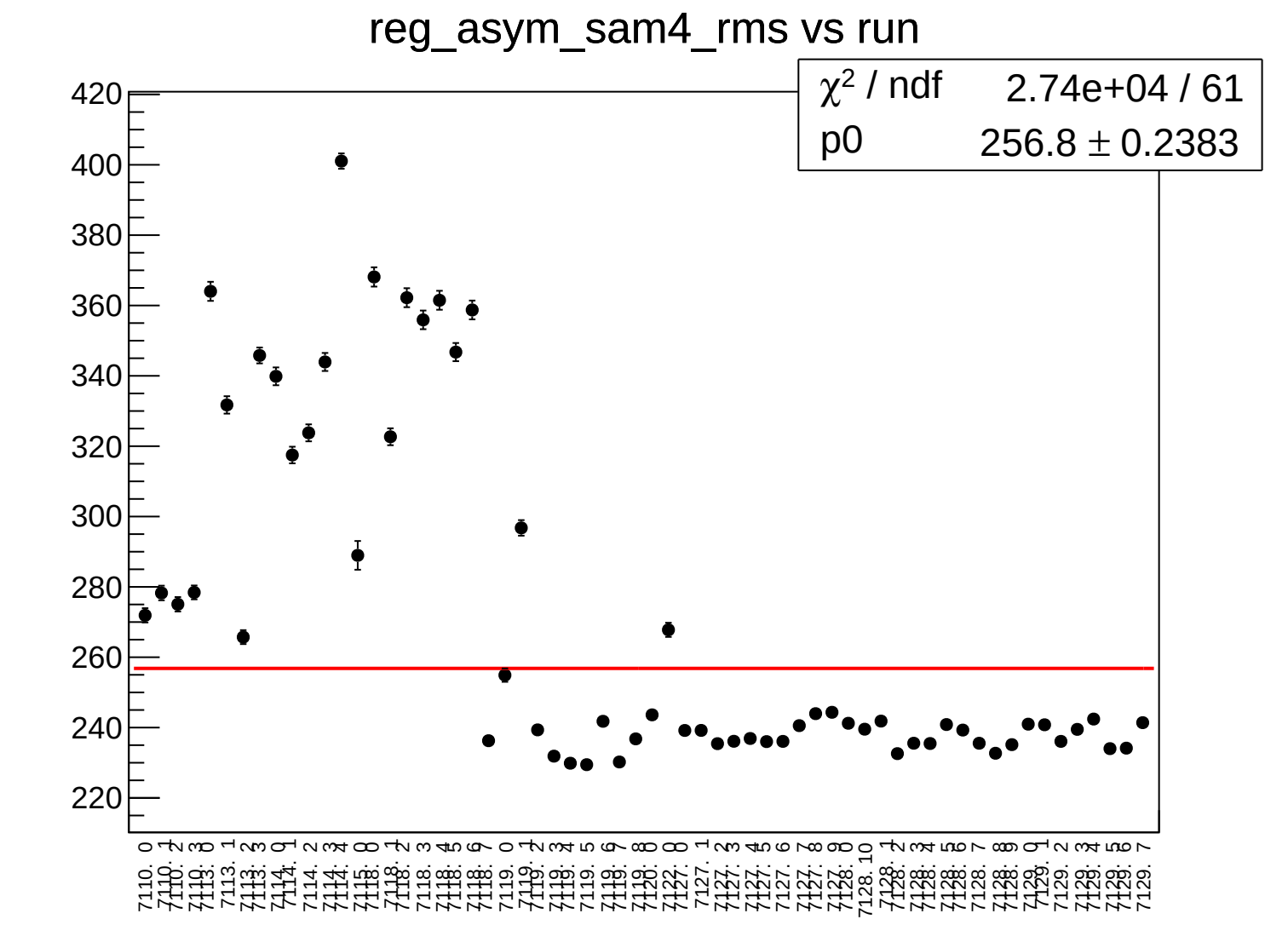

asym_sam3_correction_mean vs run
χ² / ndf 70.54 / 61
p0 −2462 ± 952.4
30000
20000
10000
0
−10000
−20000
pull
Entries 62
Mean −99.26
Std Dev 135.1
3
2
1
0
−1
−2

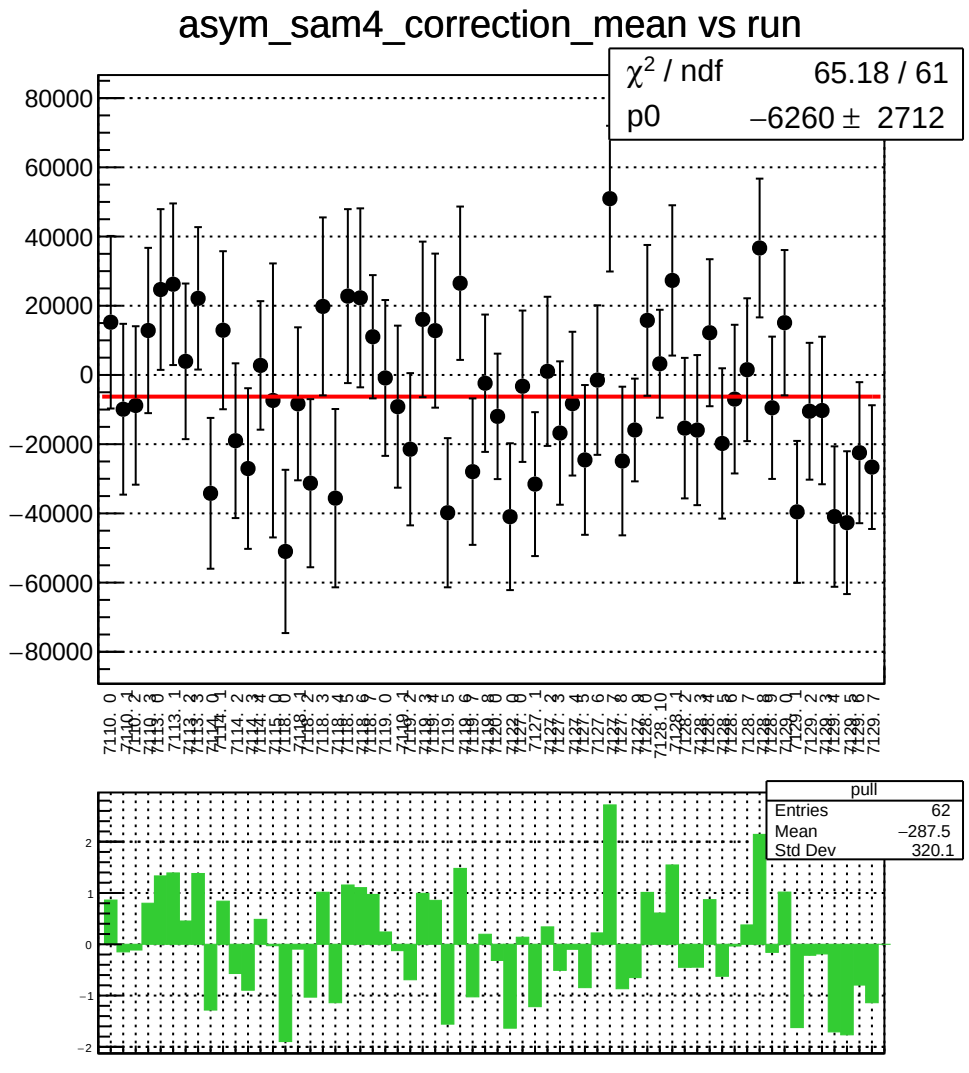

pull1D
Entries 62
Mean 0.03659
Std Dev 1.066
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

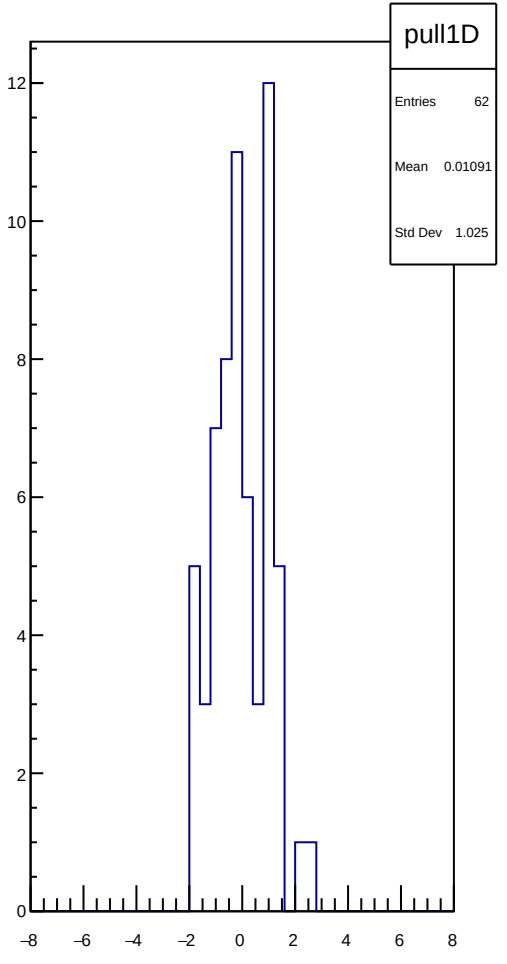

asym_sam3_correction_rms vs run
χ² / ndf 2.472e+04 / 61
p0 726.5 ± 0.6734
1100
1000
900
800
700
600

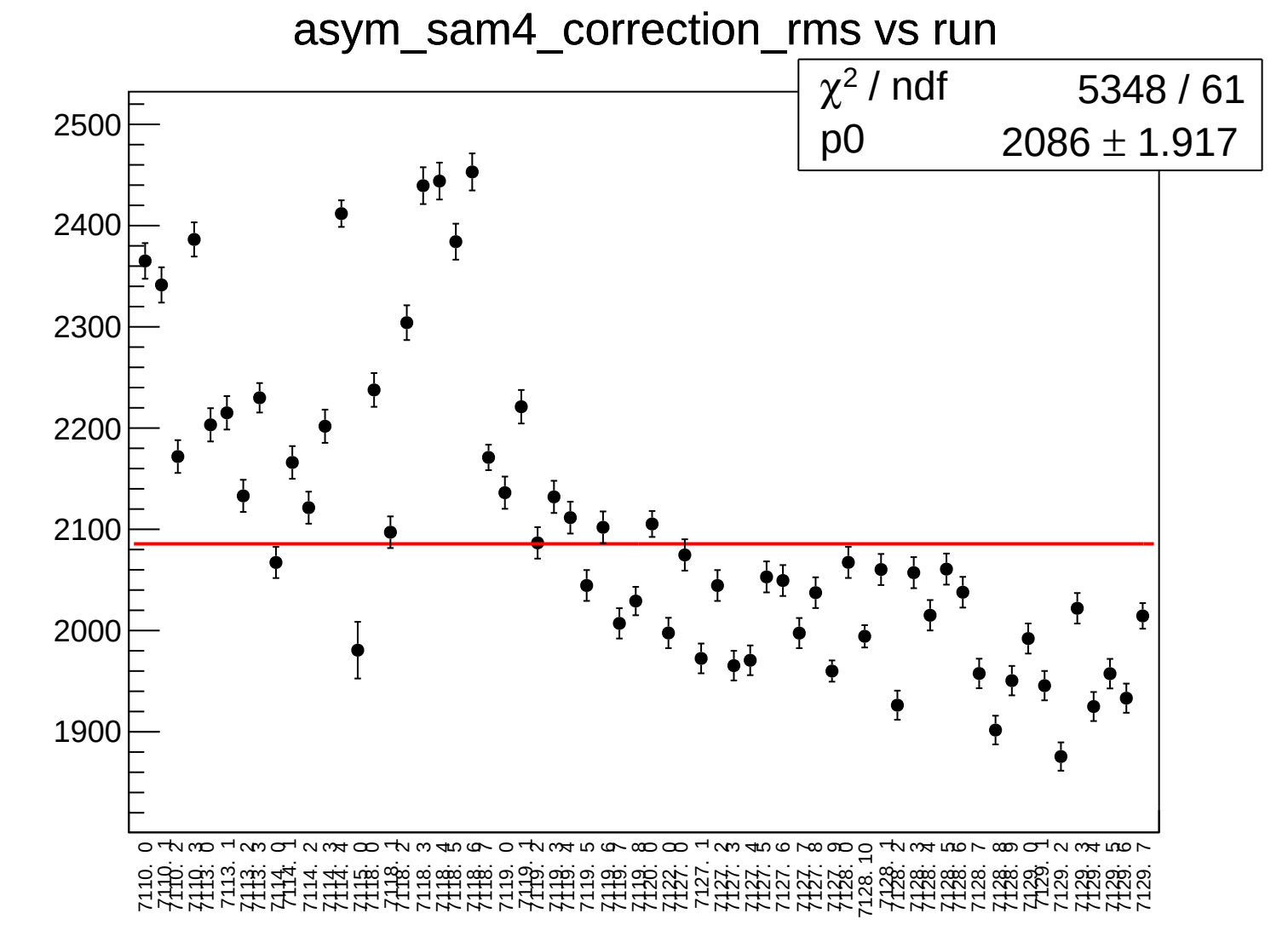

reg_asym_sam4_mean vs run
χ^2 / ndf 59.03 / 61
p0 293.4 ± 337.1
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −846.9
Std Dev 865.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

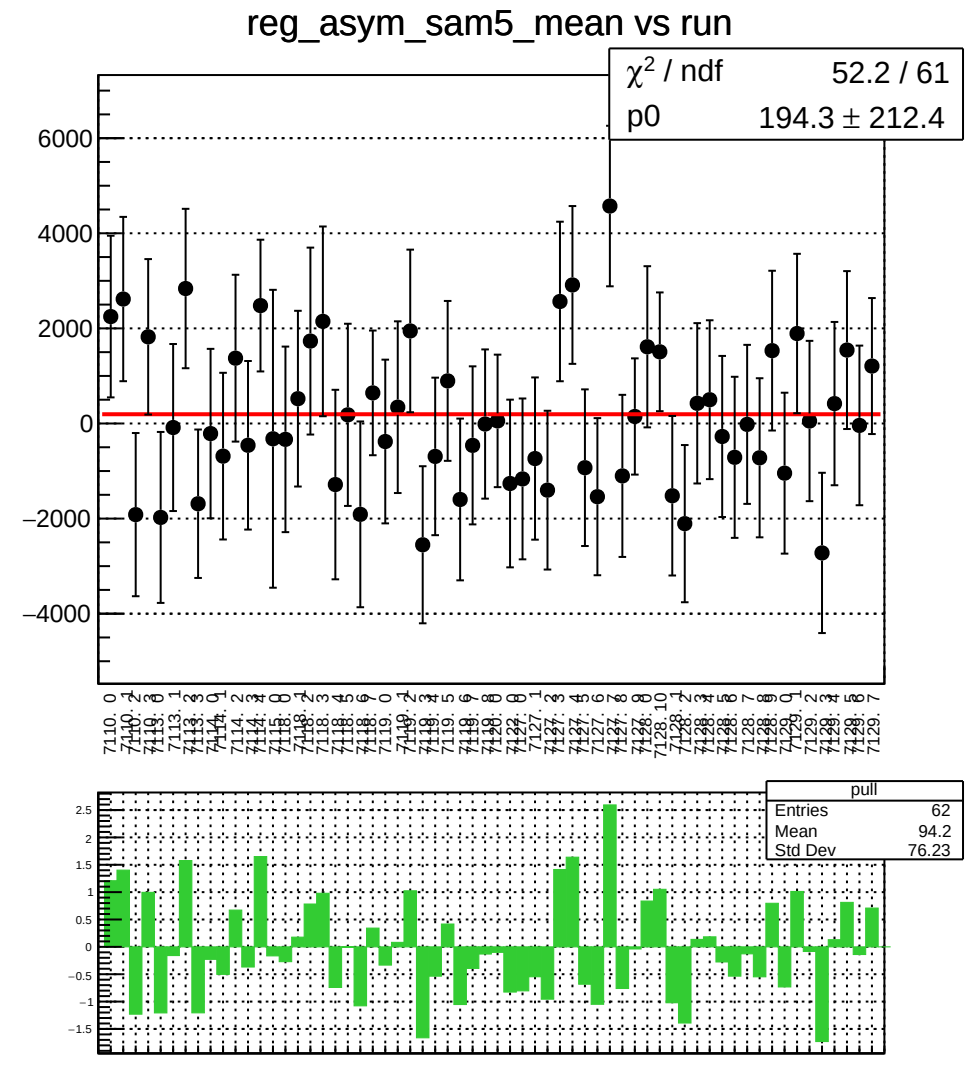

pull1D
Entries 62
Mean 0.002312
Std Dev 0.9757
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

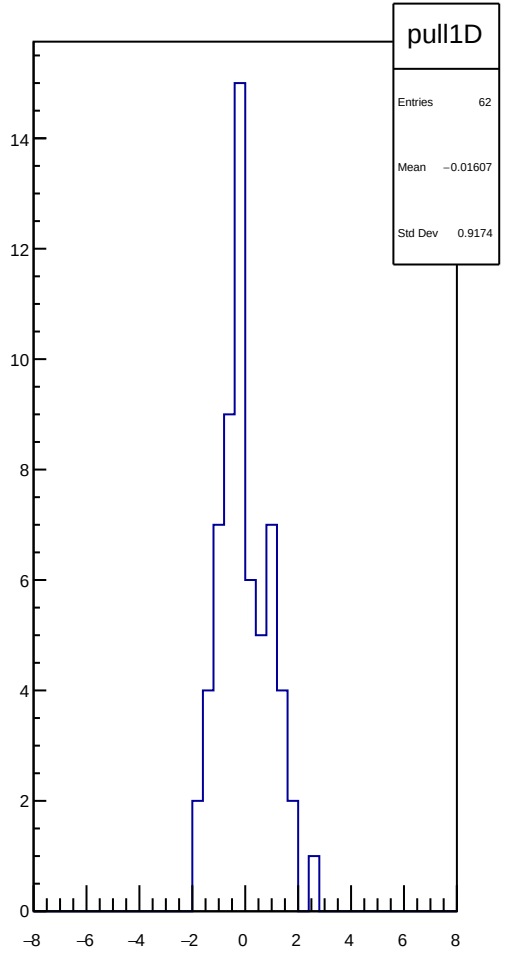

reg_asym_sam4_rms vs run
χ² / ndf 2.74e+04 / 61
p0 256.8 ± 0.2383
420
400
380
360
340
320
300
280
260
240
220

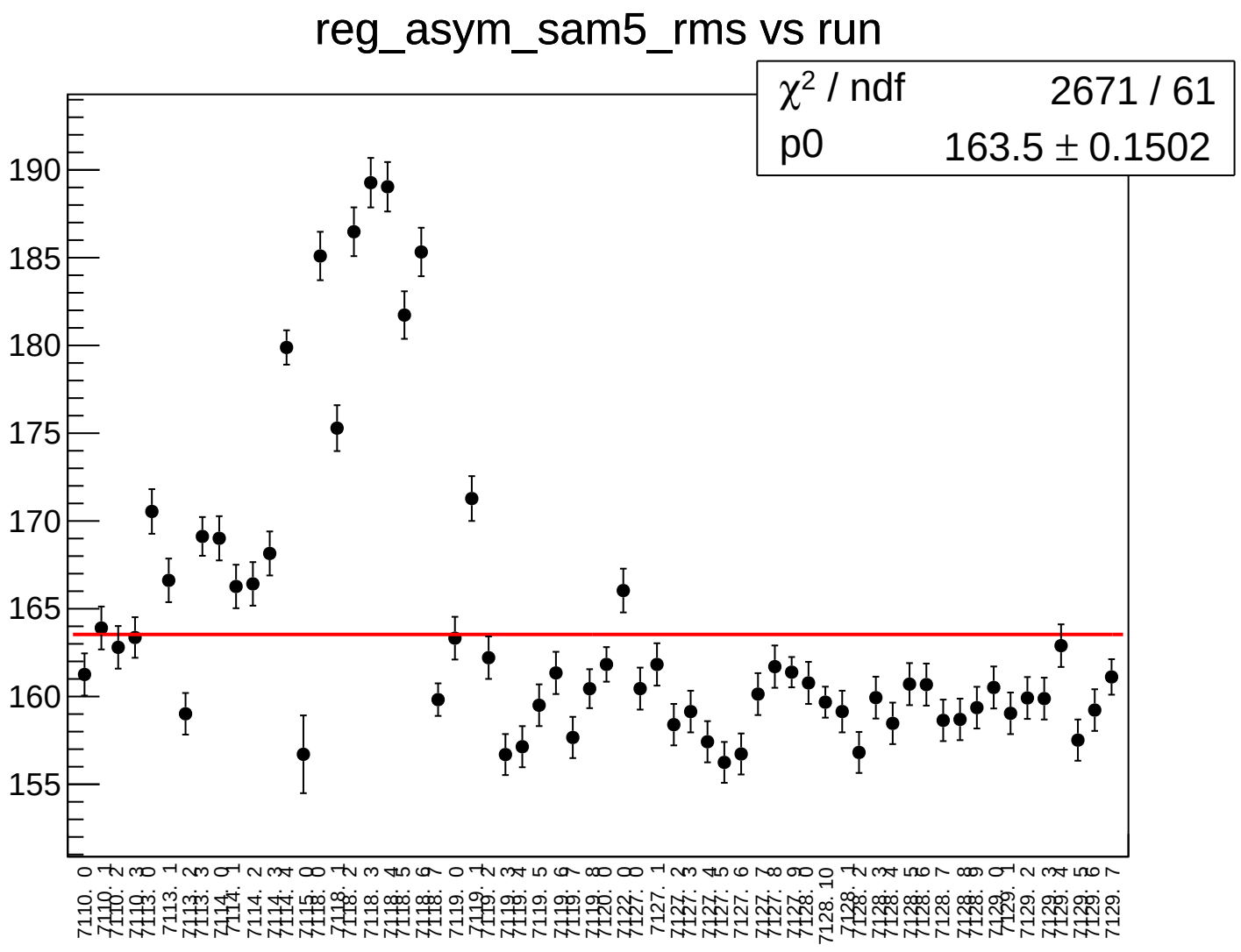

asym_sam4_correction_mean vs run
χ² / ndf 65.18 / 61
p0 −6260 ± 2712
pull
Entries 62
Mean −287.5
Std Dev 320.1

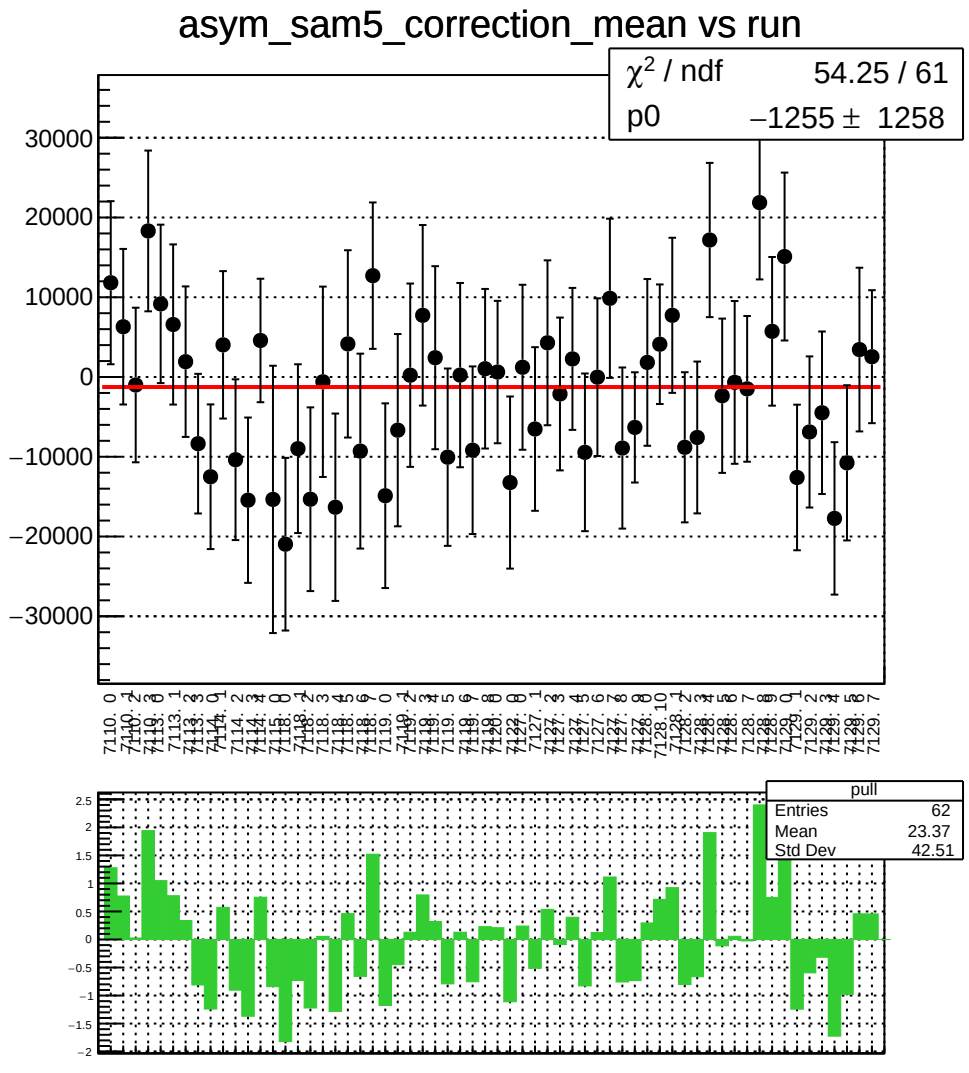

pull1D
Entries 62
Mean 0.01091
Std Dev 1.025

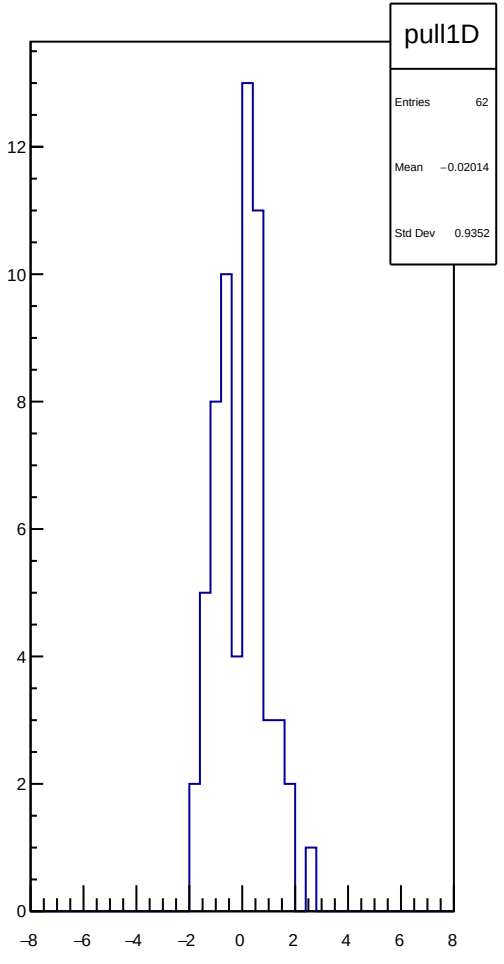

asym_sam4_correction_rms vs run
χ² / ndf 5348 / 61
p0 2086 ± 1.917
2500
2400
2300
2200
2100
2000
1900

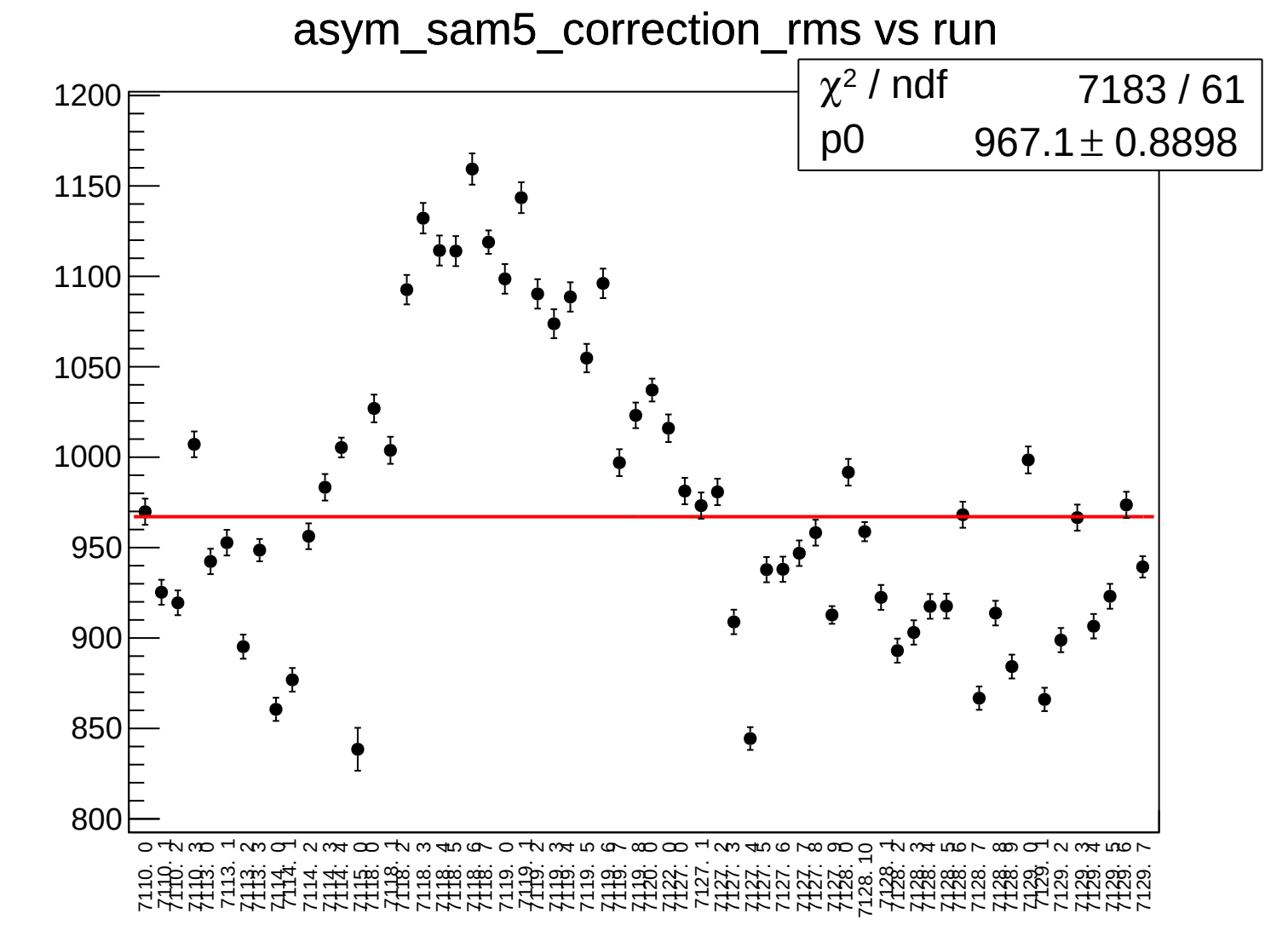

reg_asym_sam5_mean vs run
χ^2 / ndf 52.2 / 61
p0 194.3 ± 212.4
6000
4000
2000
0
−2000
−4000
pull
Entries 62
Mean 94.2
Std Dev 76.23
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

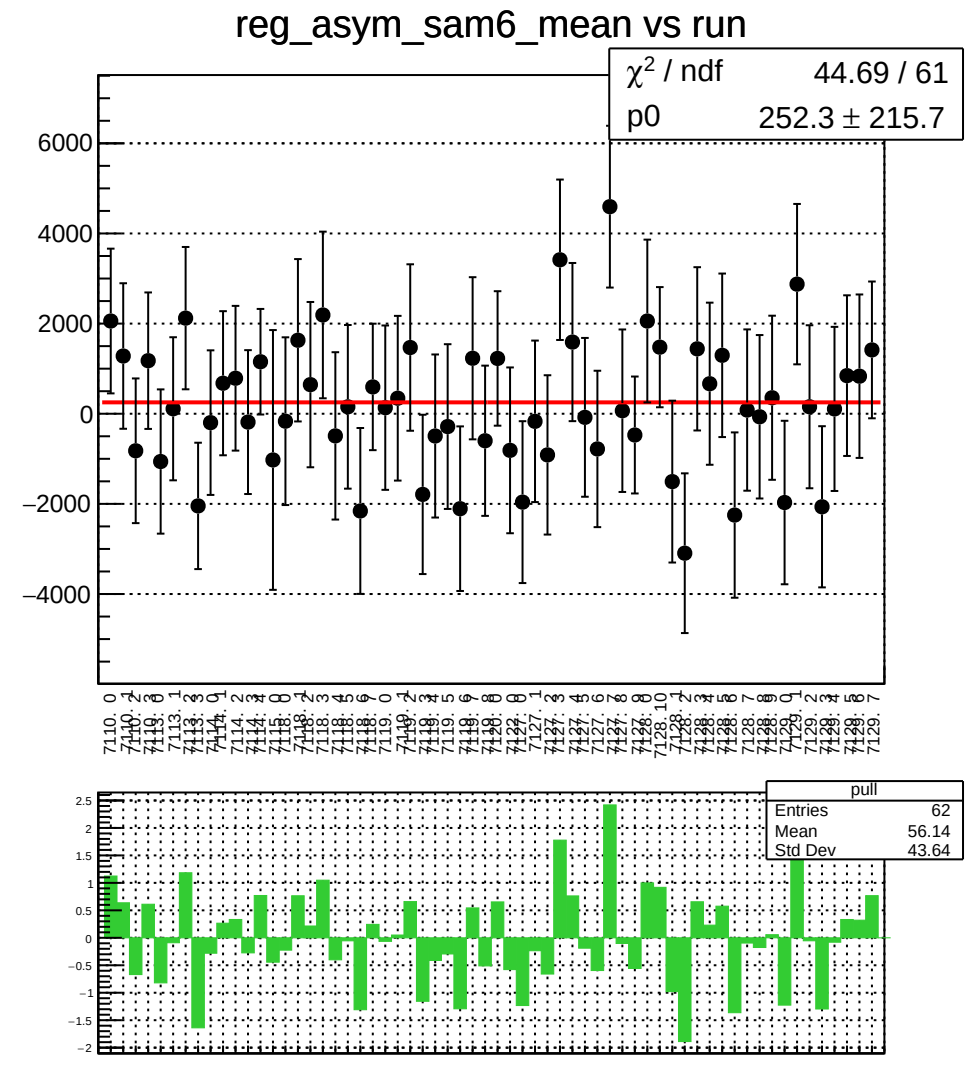

pull1D
Entries 62
Mean −0.01607
Std Dev 0.9174
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

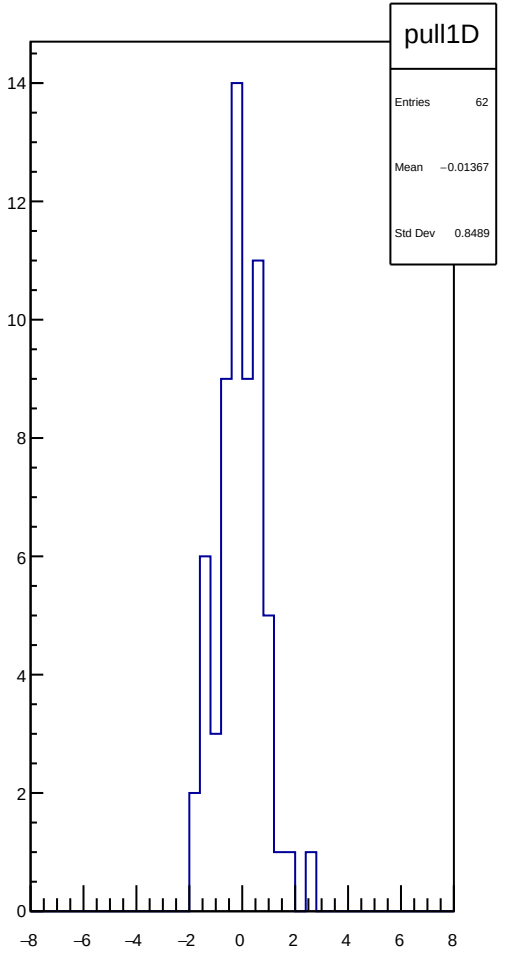

reg_asym_sam5_rms vs run
χ² / ndf 2671 / 61
p0 163.5 ± 0.1502
190
185
180
175
170
165
160
155
7110. 0
7110. 1
7110. 2
7110. 3
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

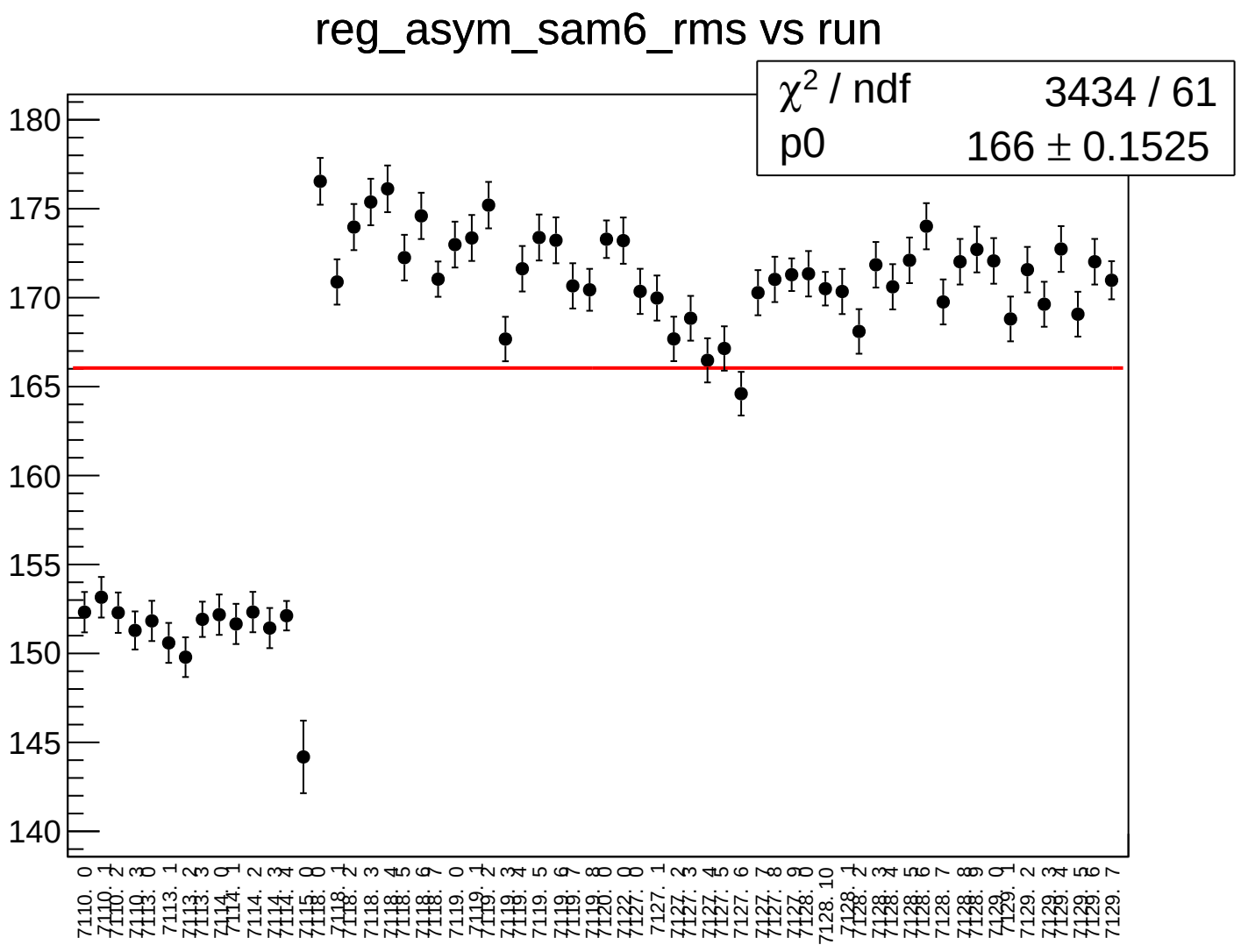

asym_sam5_correction_mean vs run
χ² / ndf 54.25 / 61
p0 −1255 ± 1258
pull
Entries 62
Mean 23.37
Std Dev 42.51

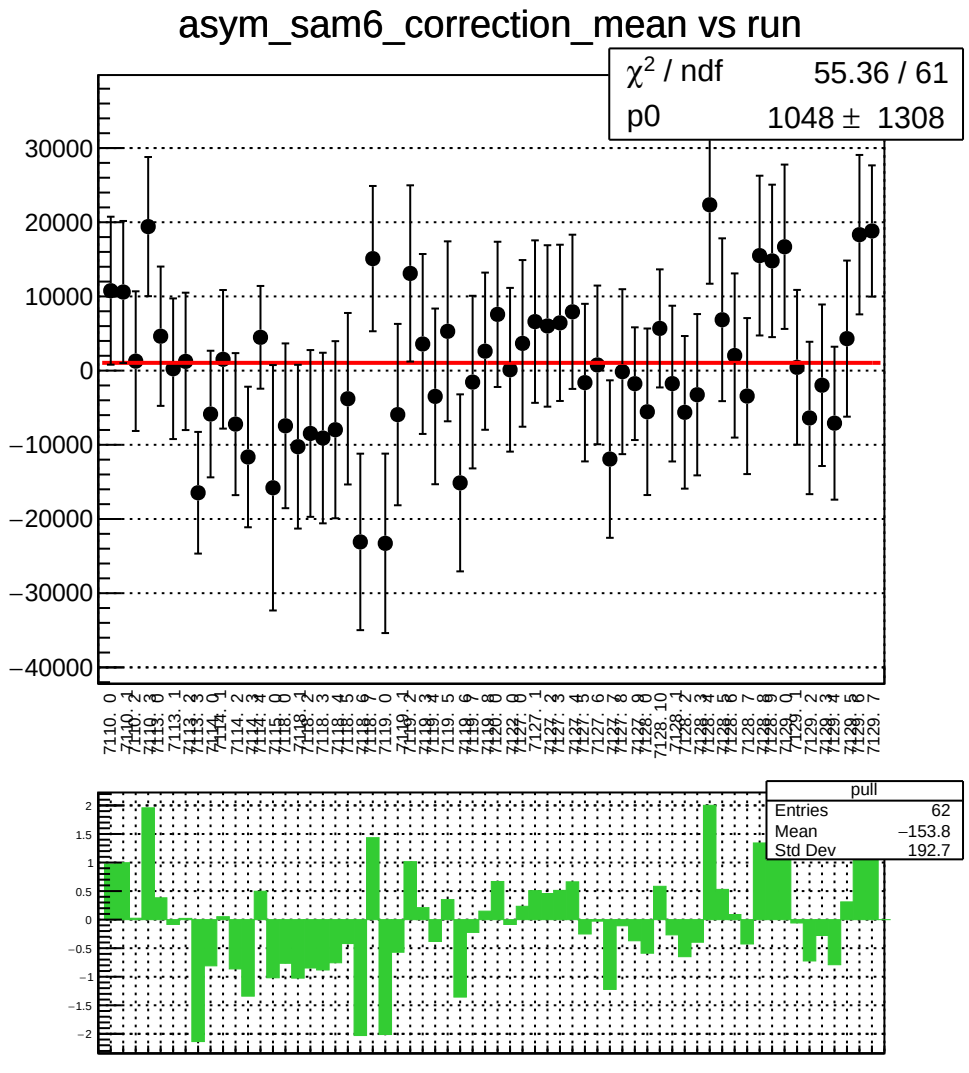

pull1D
Entries 62
Mean −0.02014
Std Dev 0.9352

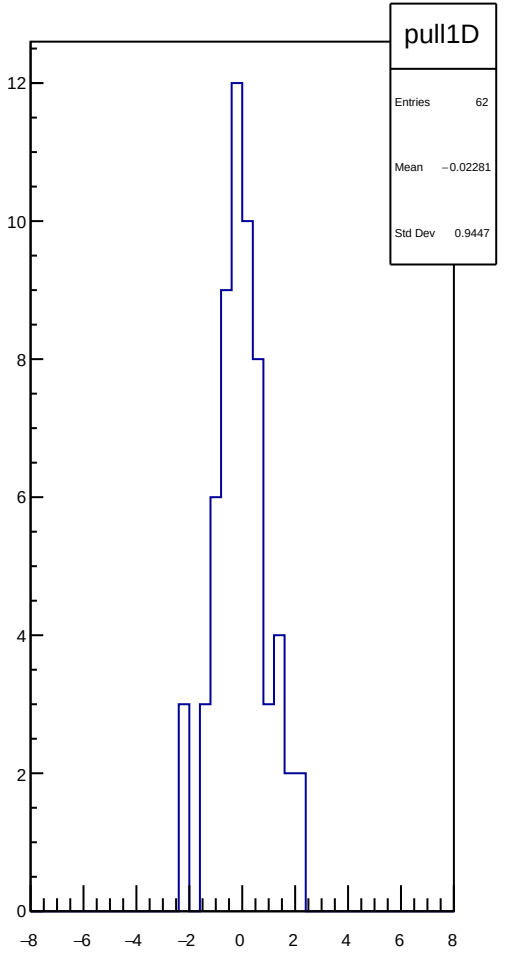

asym_sam5_correction_rms vs run
χ² / ndf 7183 / 61
p0 967.1 ± 0.8898
1200
1150
1100
1050
1000
950
900
850
800
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

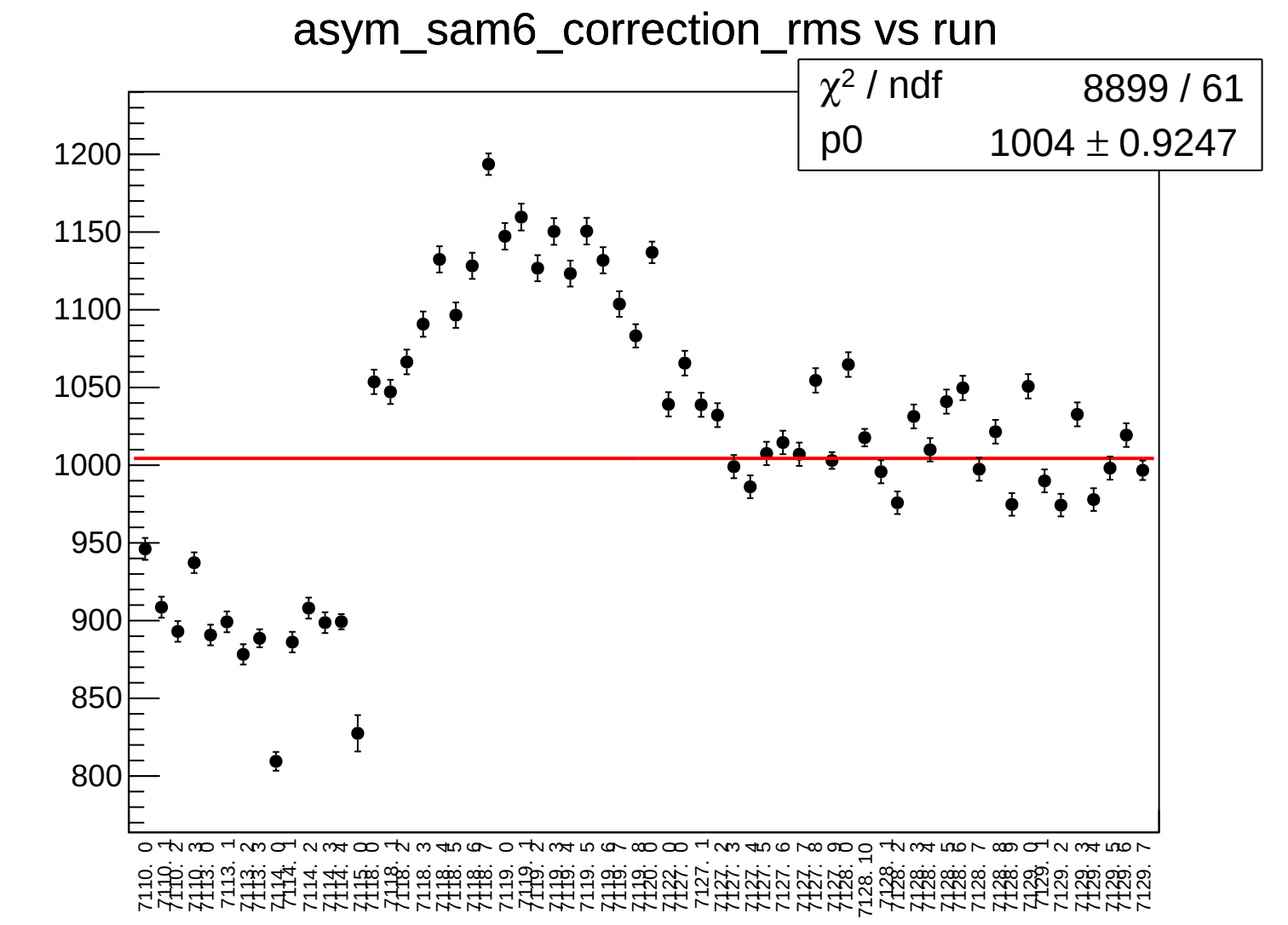

reg_asym_sam6_mean vs run
χ² / ndf 44.69 / 61
p0 252.3 ± 215.7
pull
Entries 62
Mean 56.14
Std Dev 43.64

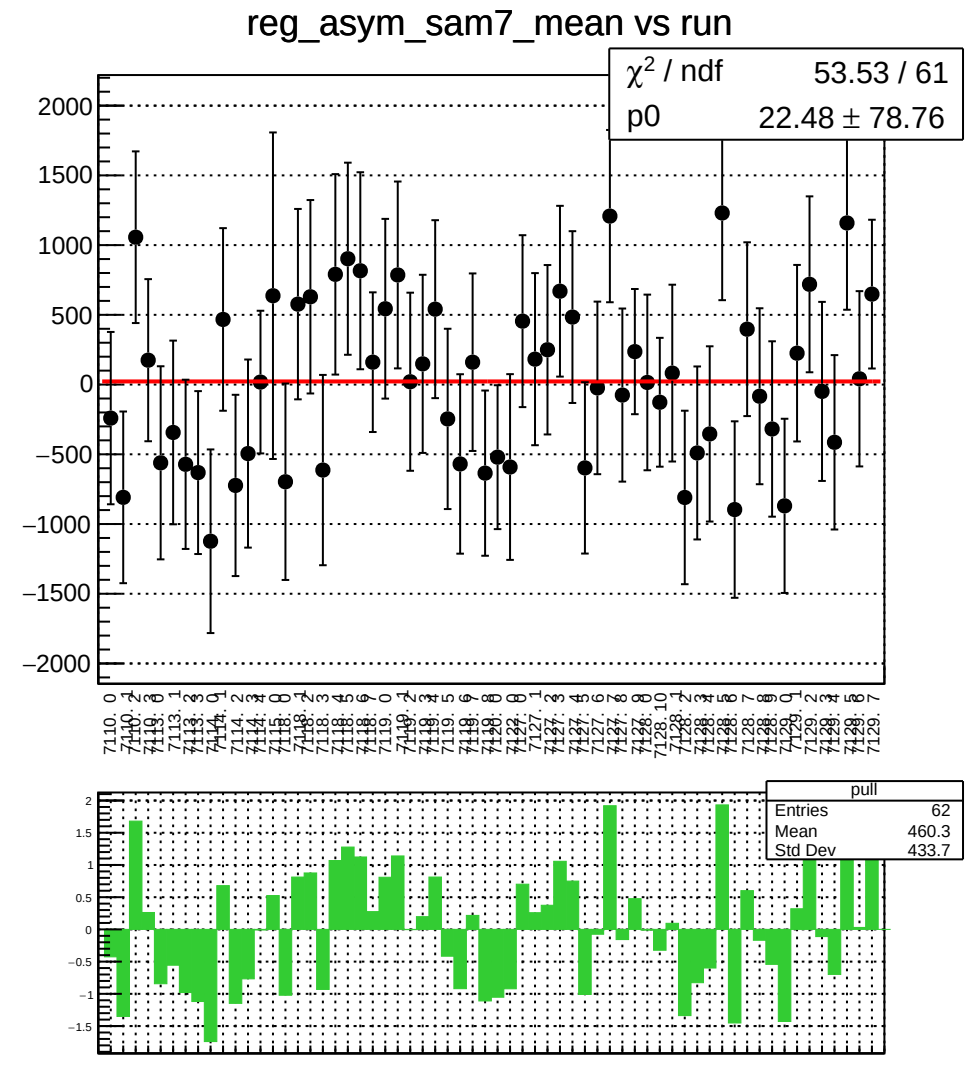

pull1D
Entries 62
Mean −0.01367
Std Dev 0.8489

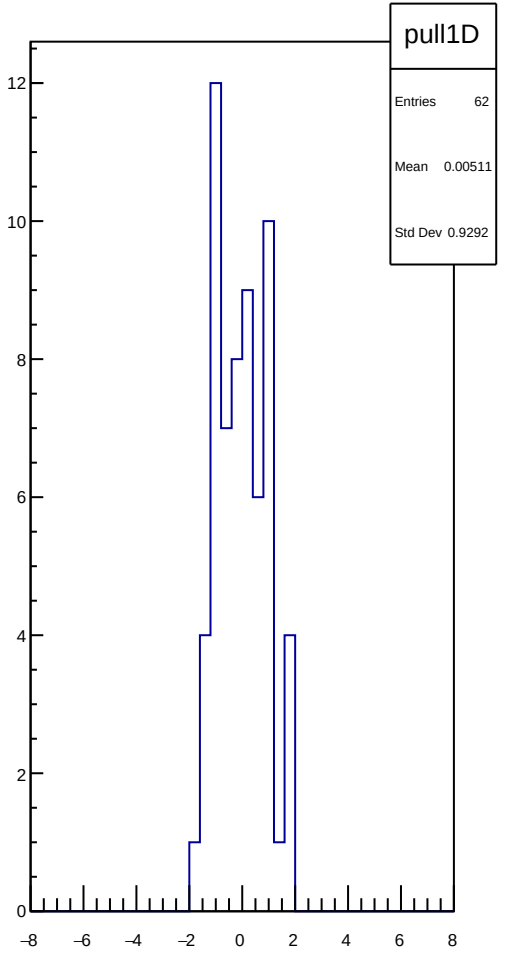

reg_asym_sam6_rms vs run
χ² / ndf 3434 / 61
p0 166 ± 0.1525
180
175
170
165
160
155
150
145
140
7110. 0
7110. 1
7110. 2
7110. 3
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7122. 8
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

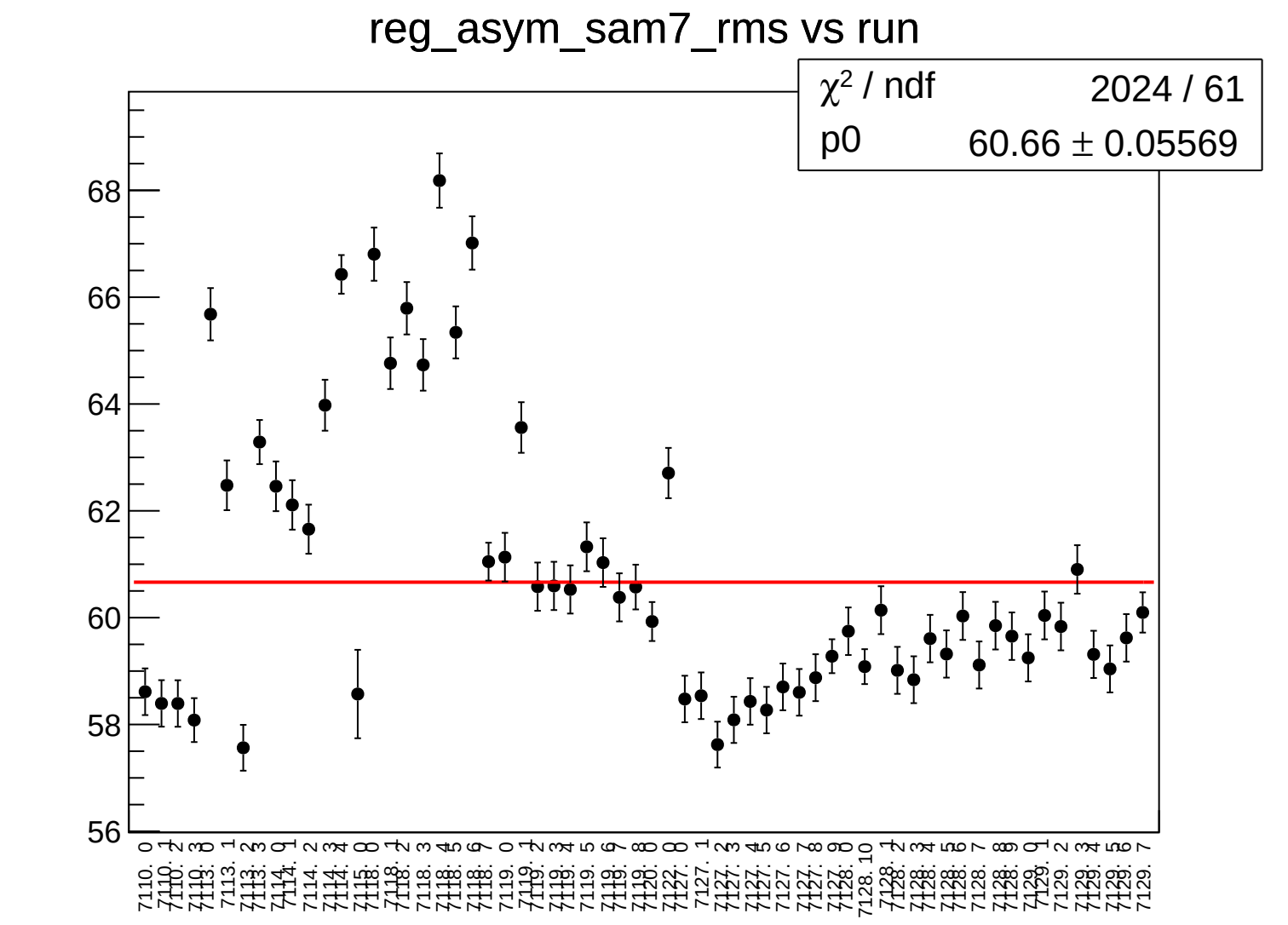

asym_sam6_correction_mean vs run
χ² / ndf 55.36 / 61
p0 1048 ± 1308
pull
Entries 62
Mean −153.8
Std Dev 192.7

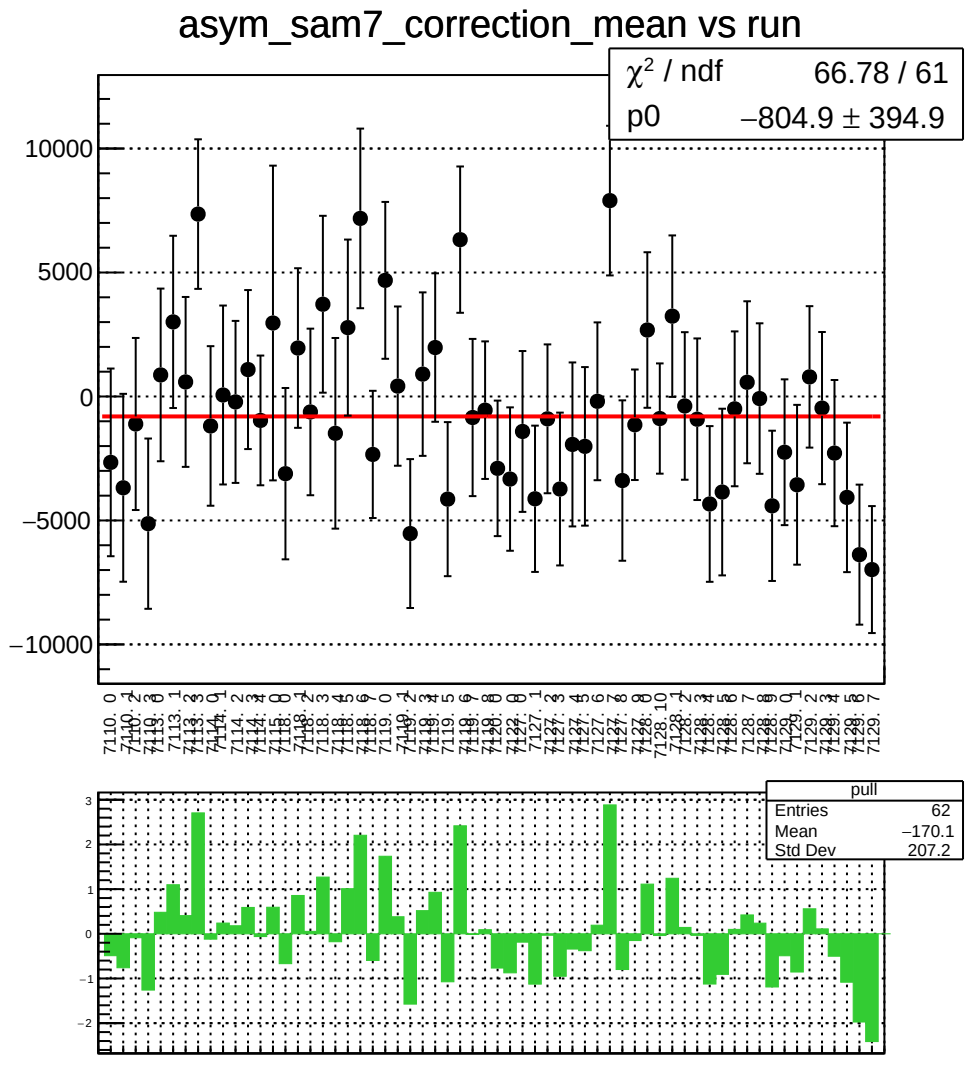

pull1D
Entries 62
Mean −0.02281
Std Dev 0.9447

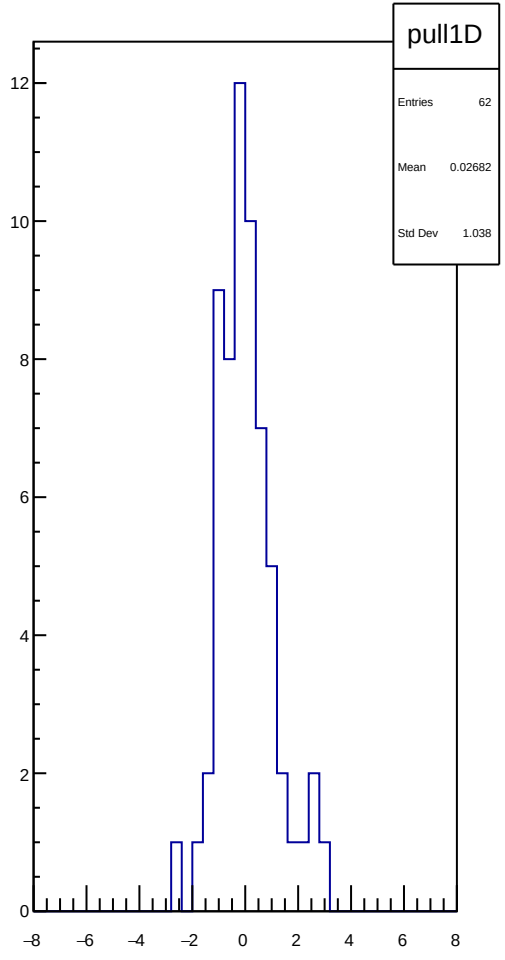

asym_sam6_correction_rms vs run
χ² / ndf 8899 / 61
p0 1004 ± 0.9247
1200
1150
1100
1050
1000
950
900
850
800

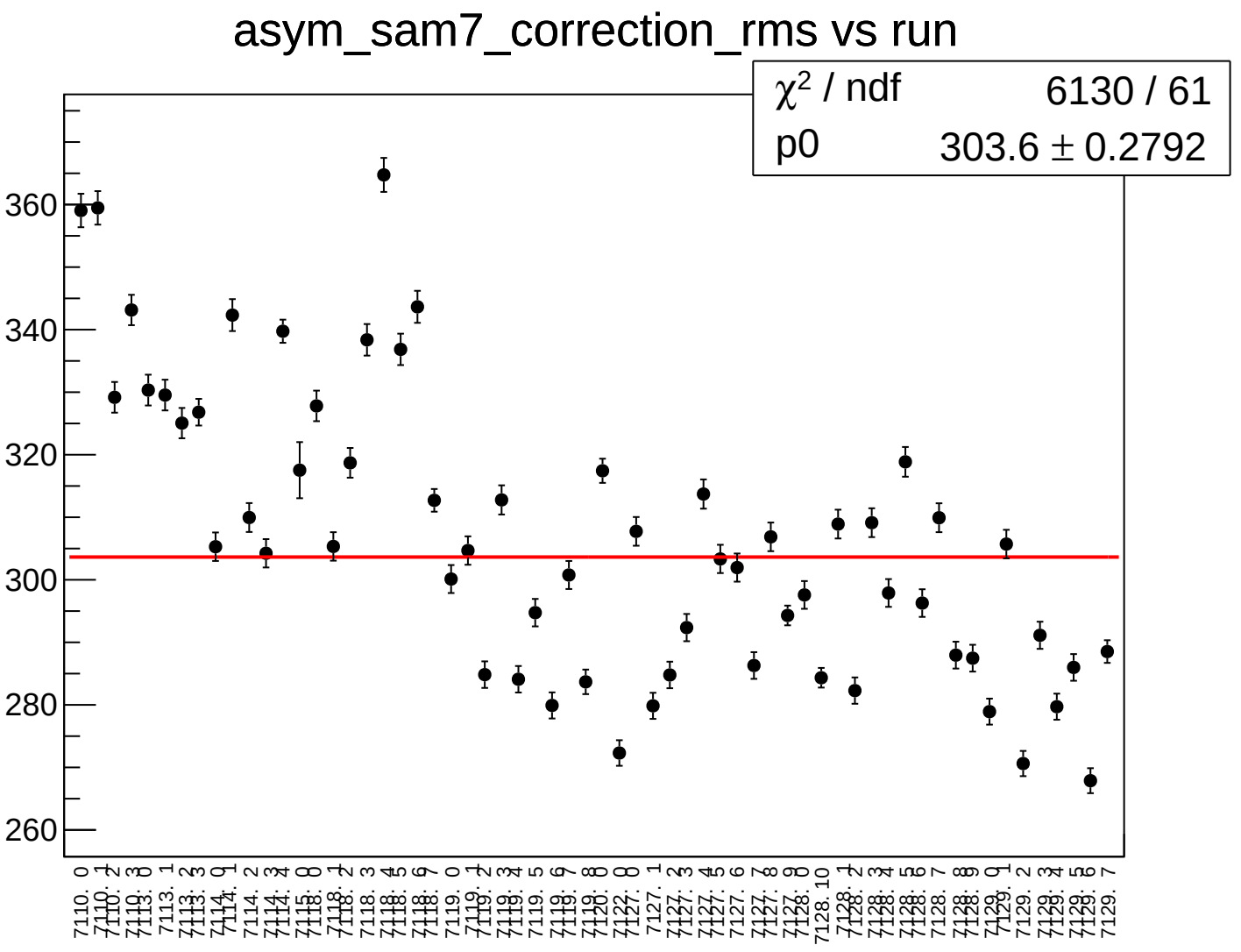

reg_asym_sam7_mean vs run
χ^2 / ndf 53.53 / 61
p0 22.48 ± 78.76
pull
Entries 62
Mean 460.3
Std Dev 433.7

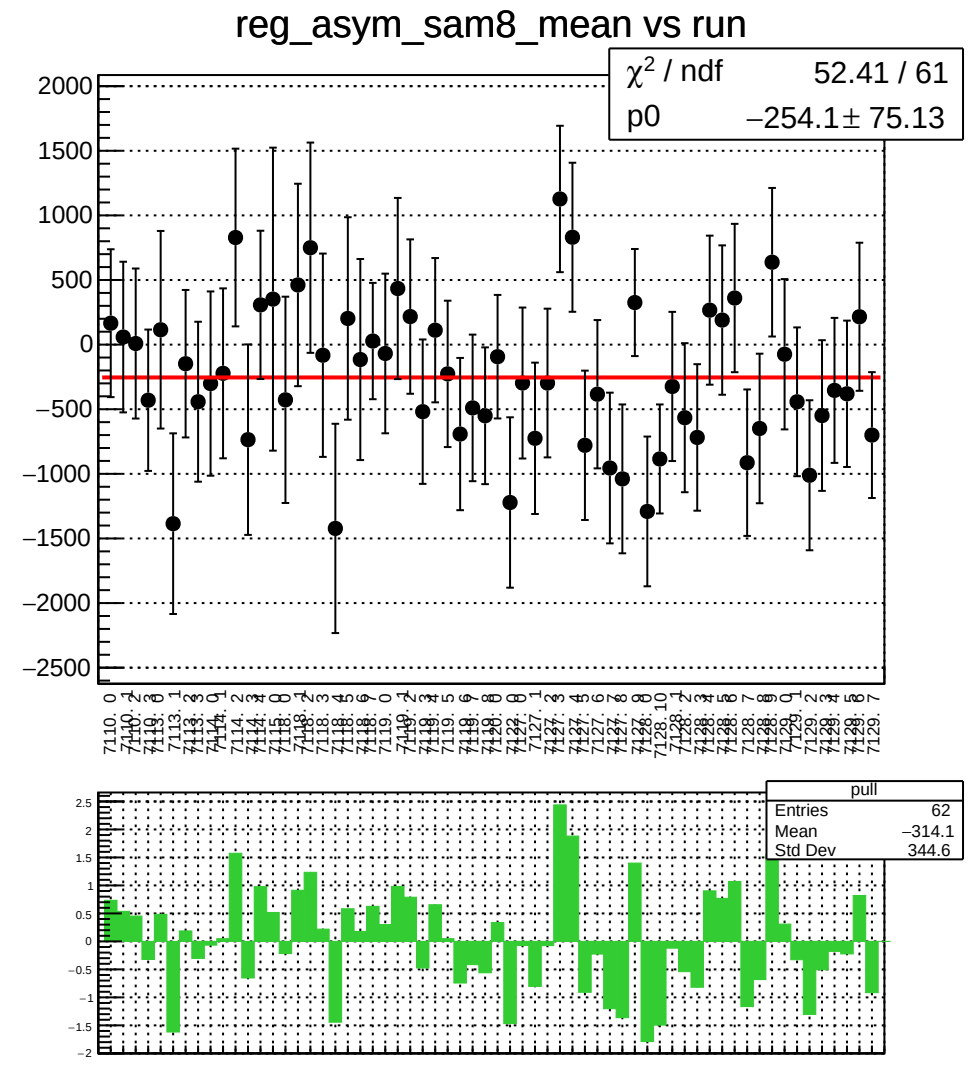

pull1D
Entries 62
Mean 0.00511
Std Dev 0.9292

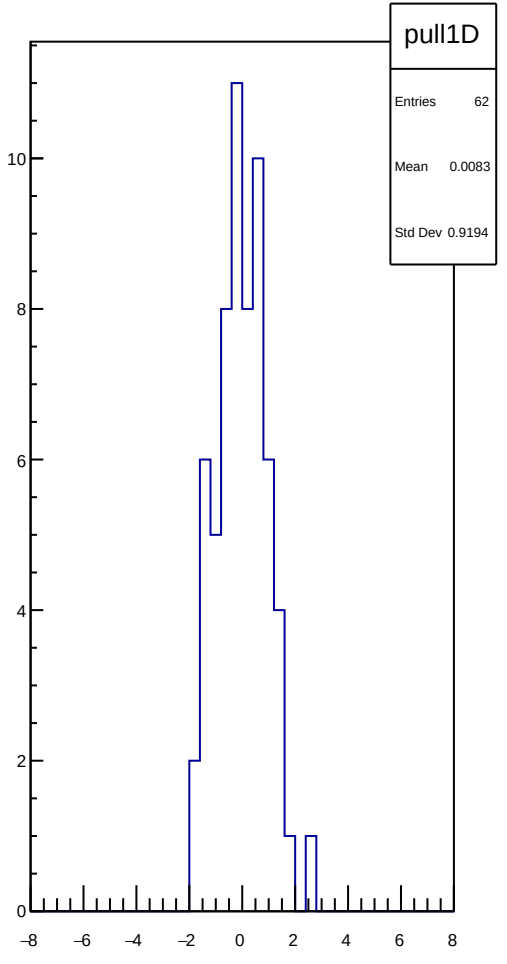

reg_asym_sam7_rms vs run
χ² / ndf 2024 / 61
p0 60.66 ± 0.05569
68
66
64
62
60
58
56

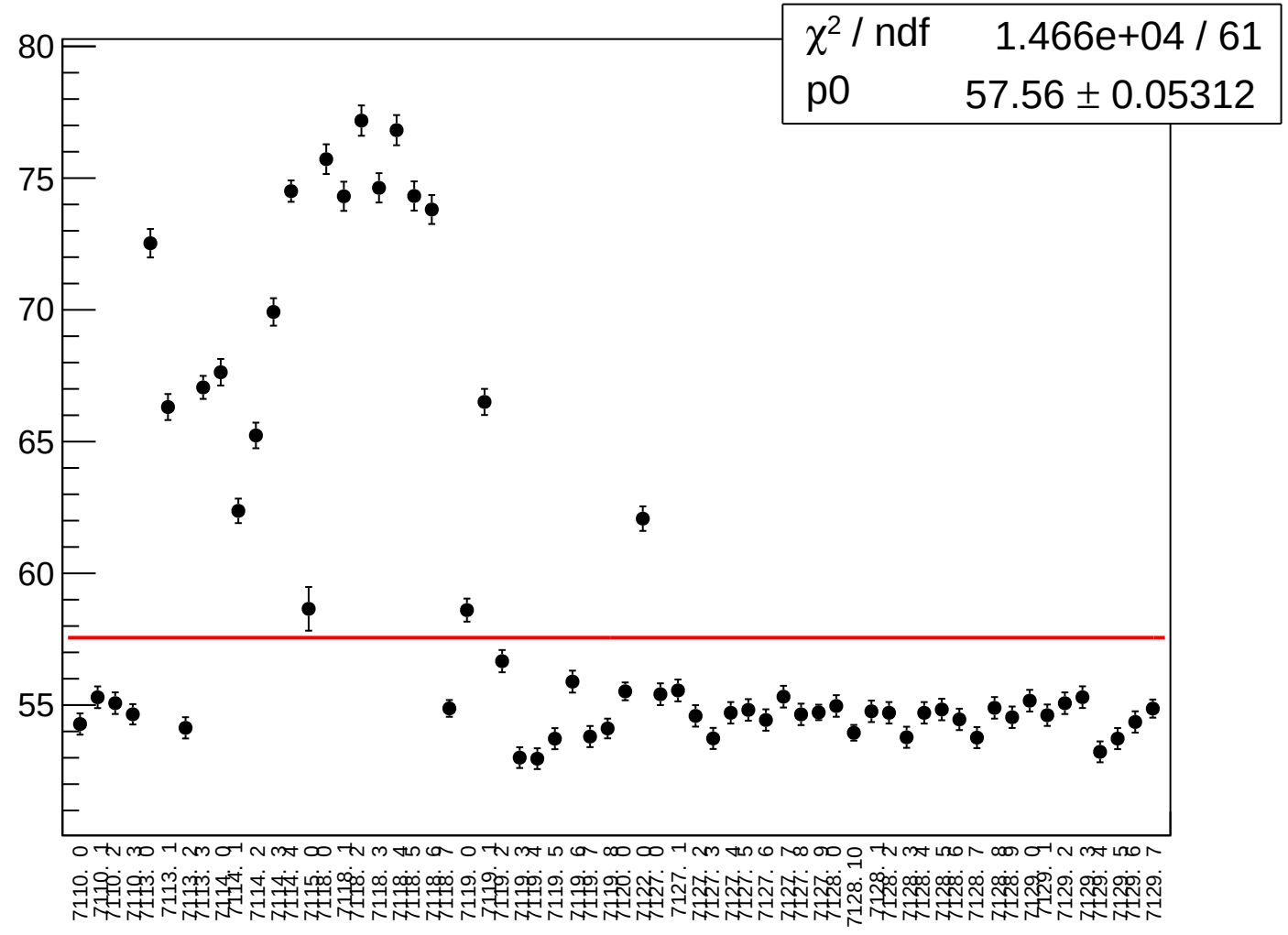

asym_sam7_correction_mean vs run
χ² / ndf 66.78 / 61
p0 −804.9 ± 394.9
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −170.1
Std Dev 207.2
3
2
1
0
−1
−2

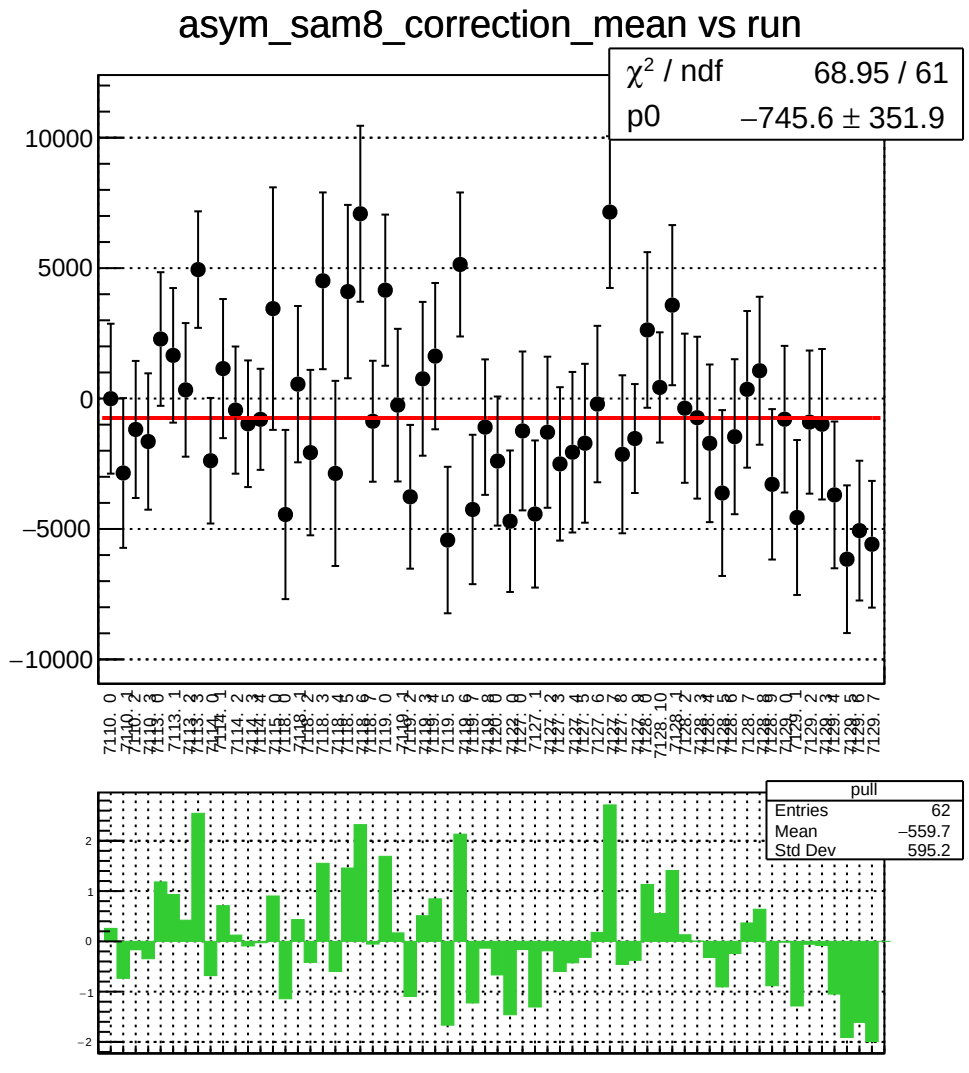

pull1D
Entries 62
Mean 0.02682
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

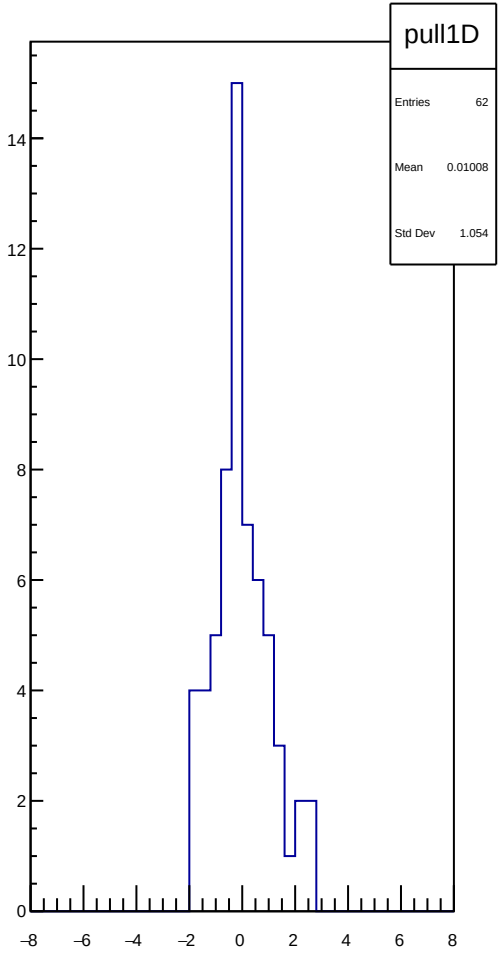

asym_sam7_correction_rms vs run
χ² / ndf 6130 / 61
p0 303.6 ± 0.2792
360
340
320
300
280
260

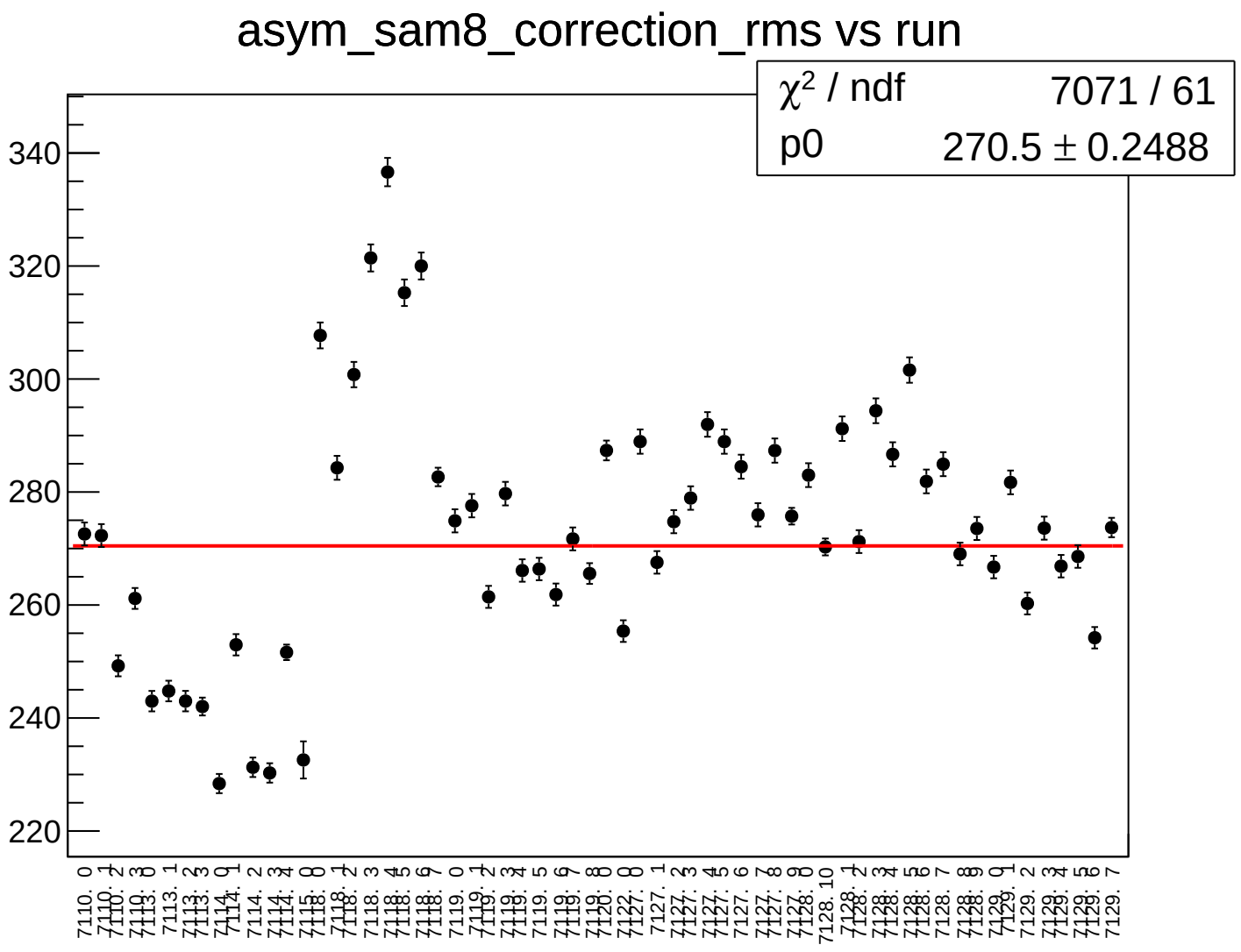

reg_asym_sam8_mean vs run
χ² / ndf 52.41 / 61
p0 −254.1± 75.13
pull
Entries 62
Mean −314.1
Std Dev 344.6

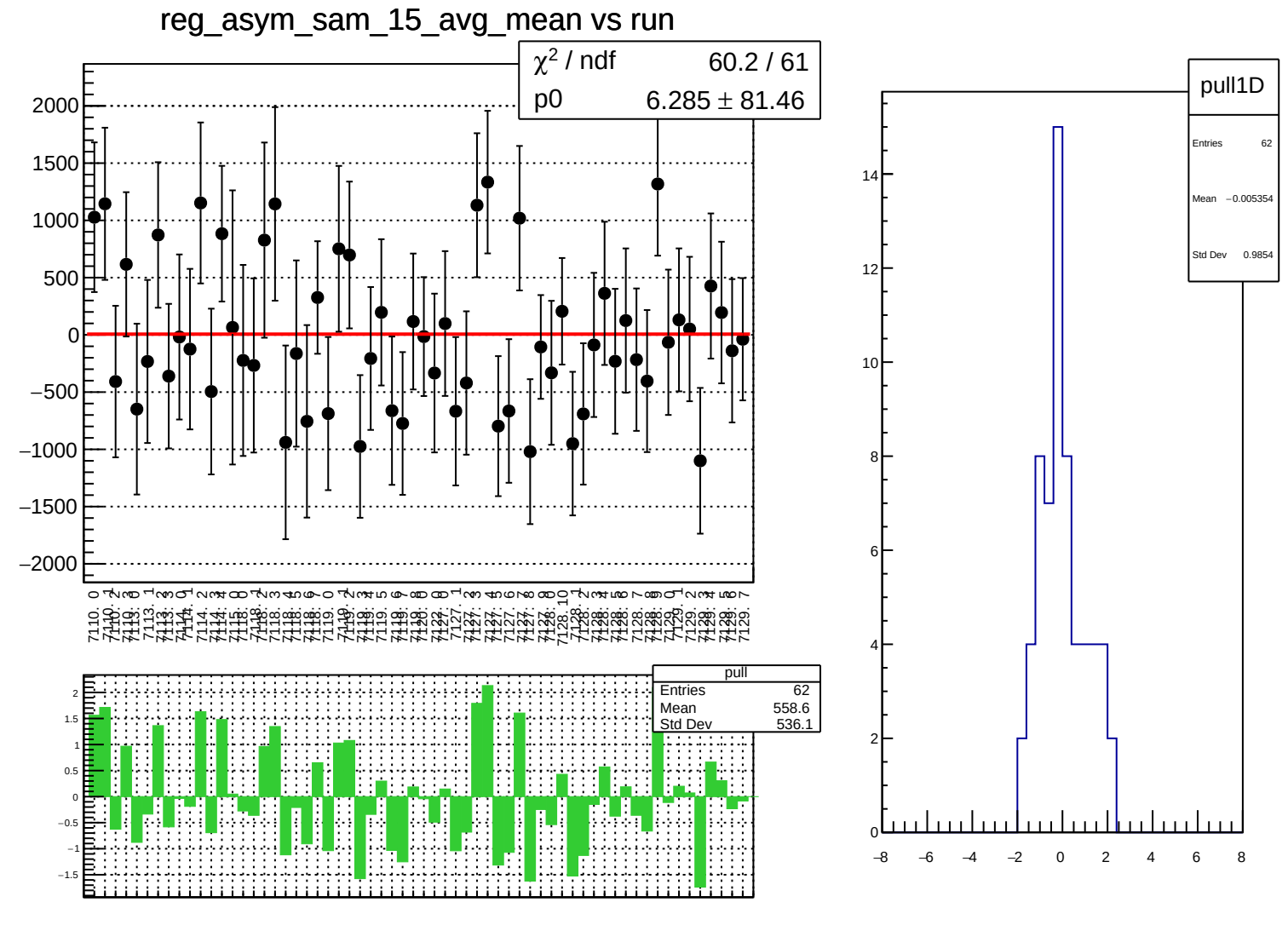

pull1D
Entries 62
Mean 0.0083
Std Dev 0.9194

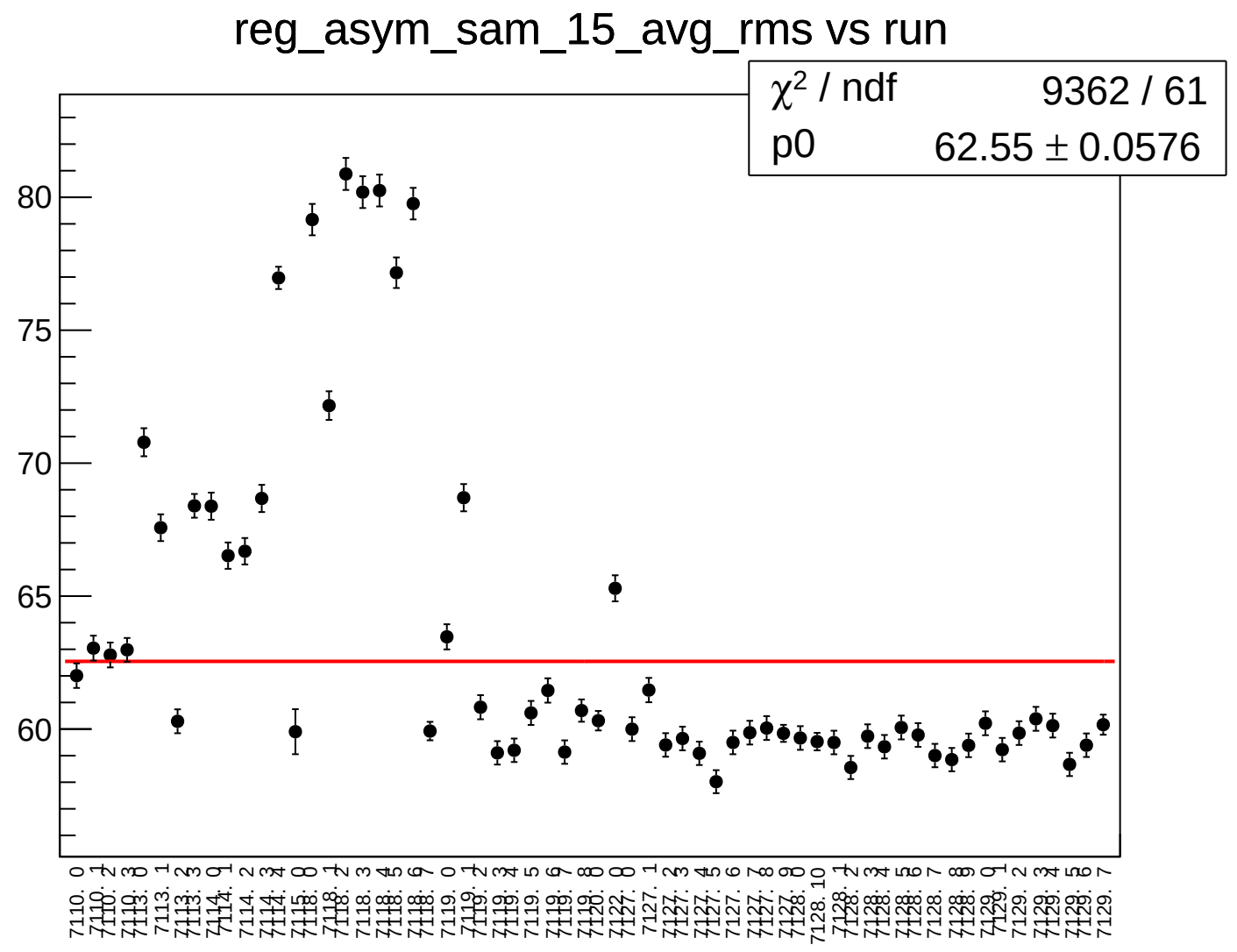

reg_asym_sam8_rms vs run
χ² / ndf 1.466e+04 / 61
p0 57.56 ± 0.05312
80
75
70
65
60
55

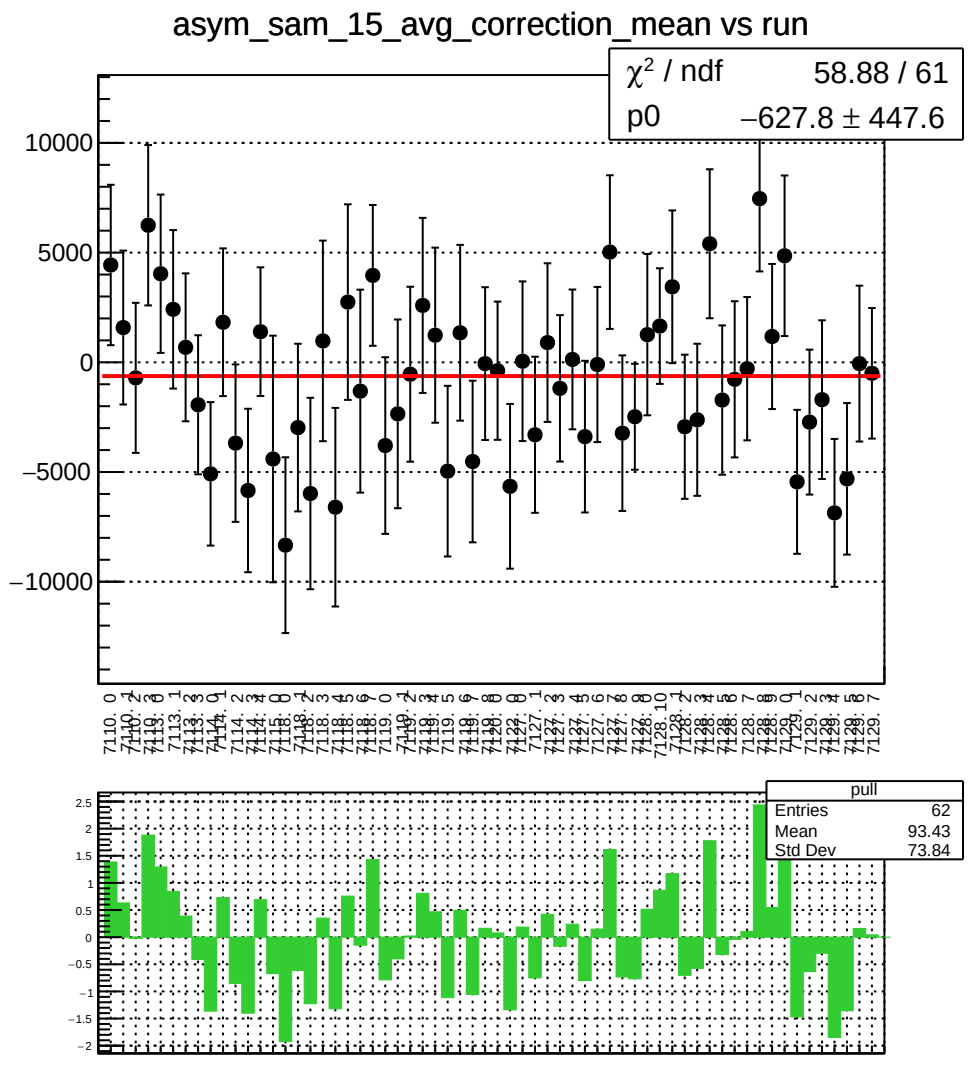

asym_sam8_correction_mean vs run
χ² / ndf 68.95 / 61
p0 −745.6 ± 351.9
pull
Entries 62
Mean −559.7
Std Dev 595.2

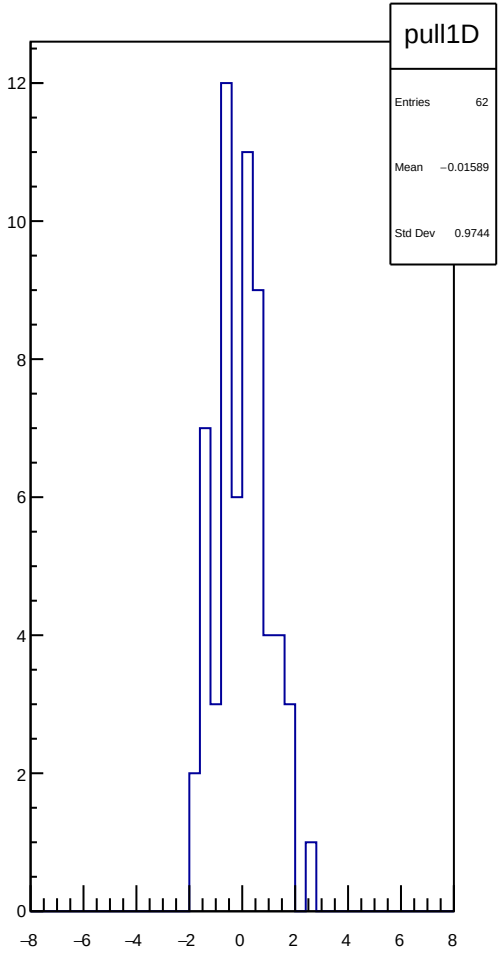

pull1D
Entries 62
Mean 0.01008
Std Dev 1.054

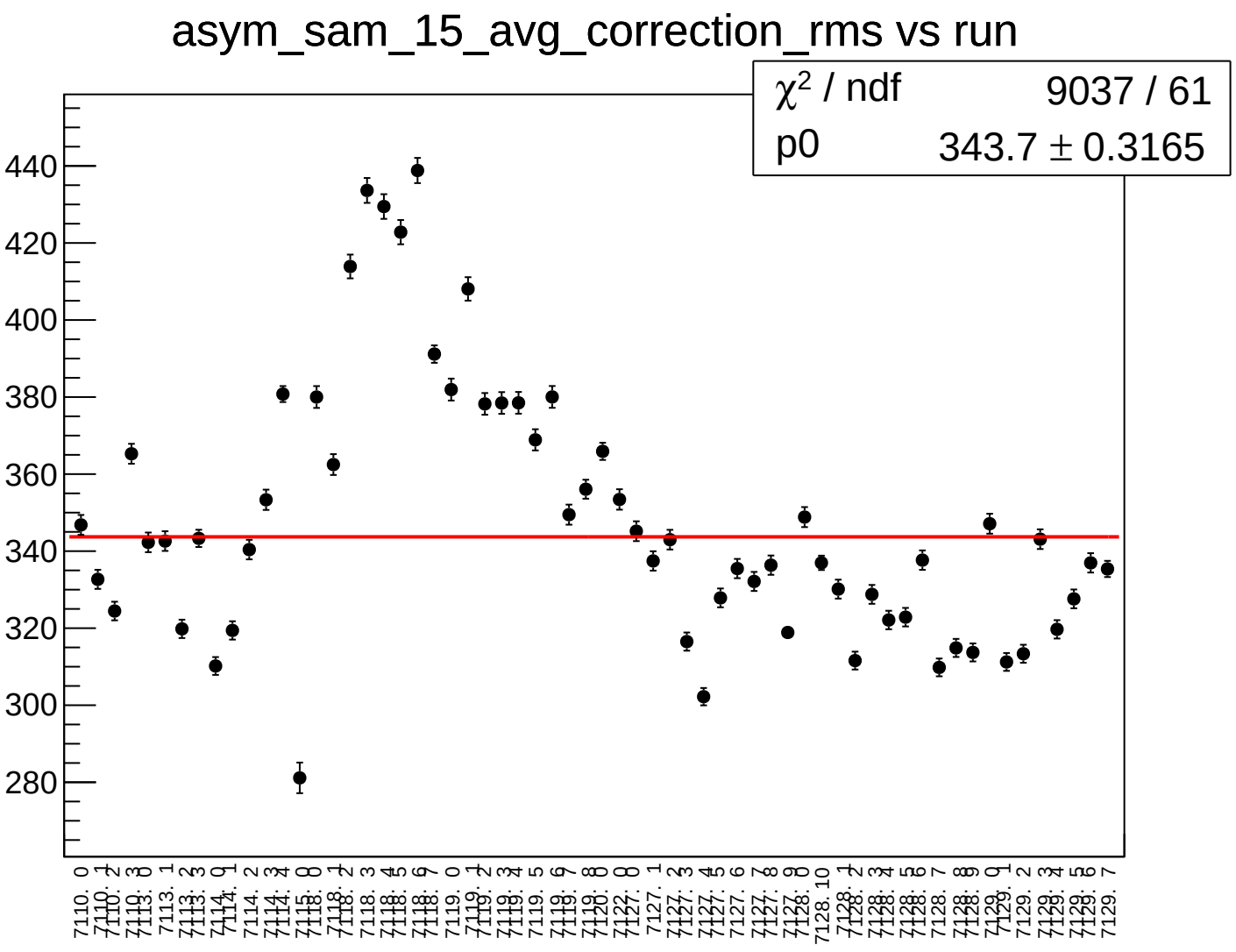

asym_sam8_correction_rms vs run
χ² / ndf 7071 / 61
p0 270.5 ± 0.2488
340
320
300
280
260
240
220
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

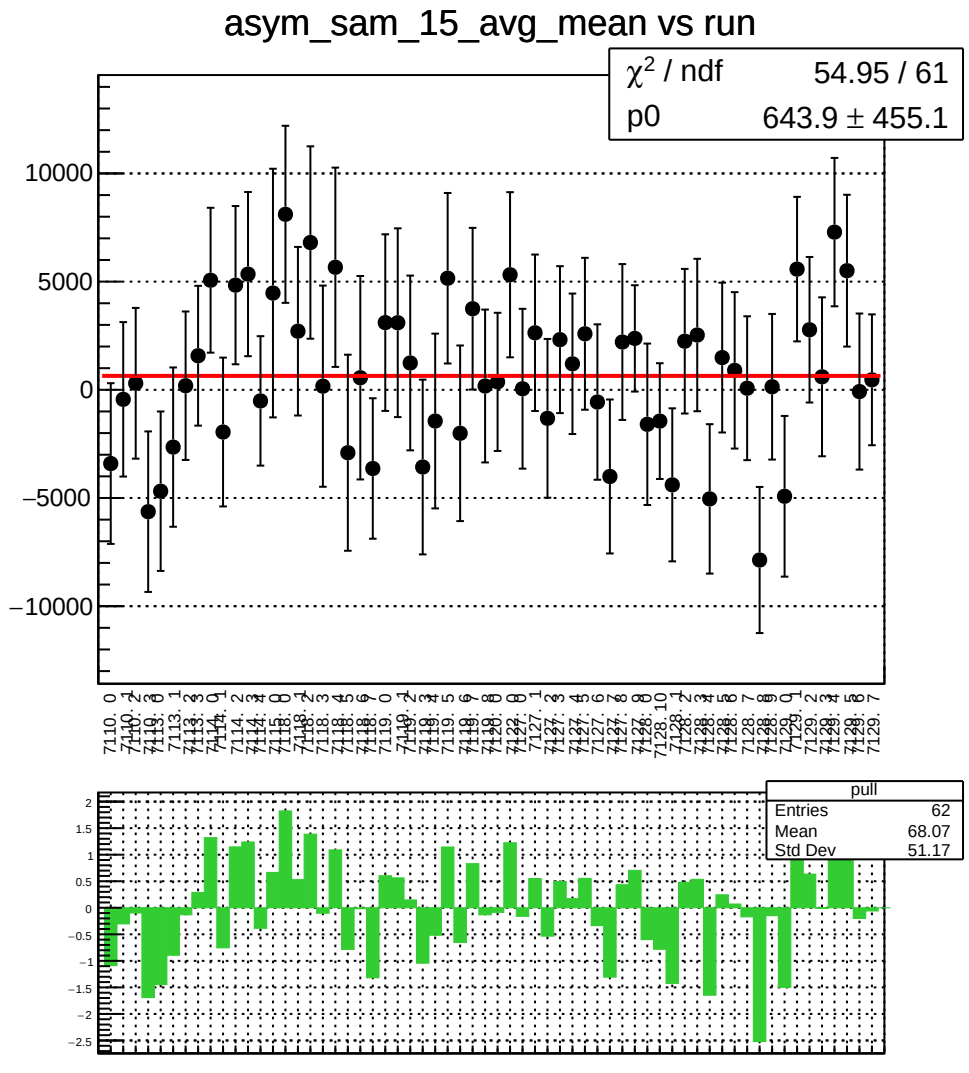

reg_asym_sam_15_avg_mean vs run
χ² / ndf 60.2 / 61
p0 6.285 ± 81.46
pull
Entries 62
Mean 558.6
Std Dev 536.1
pull1D
Entries 62
Mean −0.005354
Std Dev 0.9854

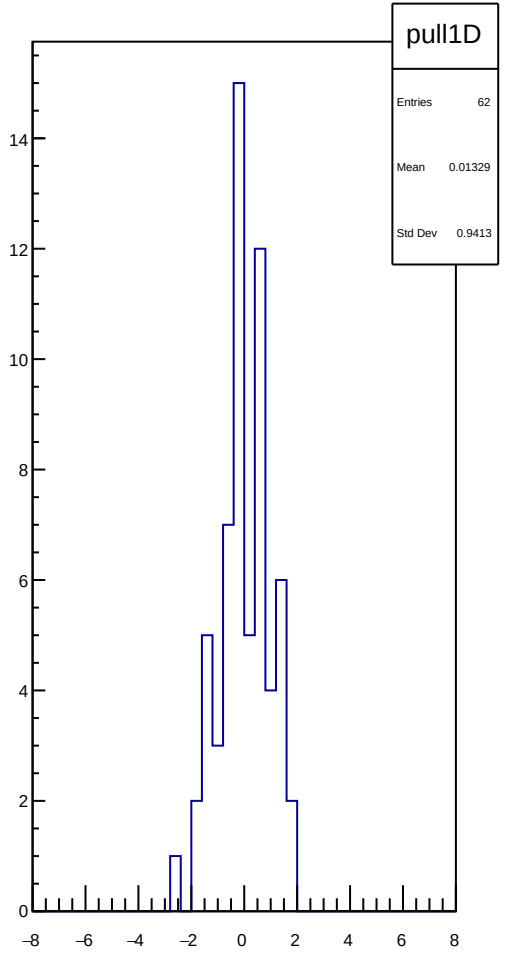

reg_asym_sam_15_avg_rms vs run
χ² / ndf 9362 / 61
p0 62.55 ± 0.0576
80
75
70
65
60

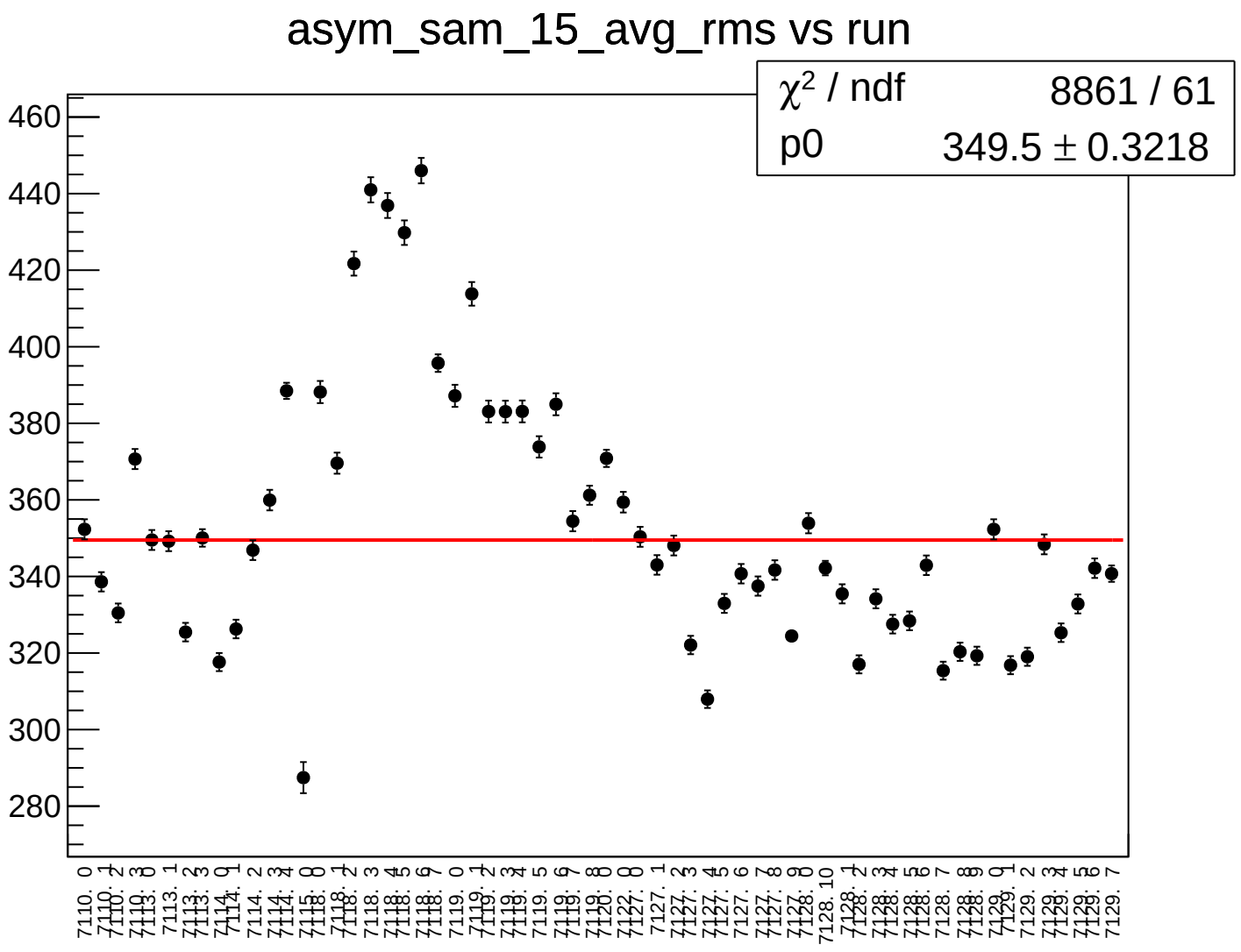

asym_sam_15_avg_correction_mean vs run
χ² / ndf 58.88 / 61
p0 −627.8 ± 447.6
10000
5000
0
−5000
−10000
pull
Entries 62
Mean 93.43
Std Dev 73.84
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

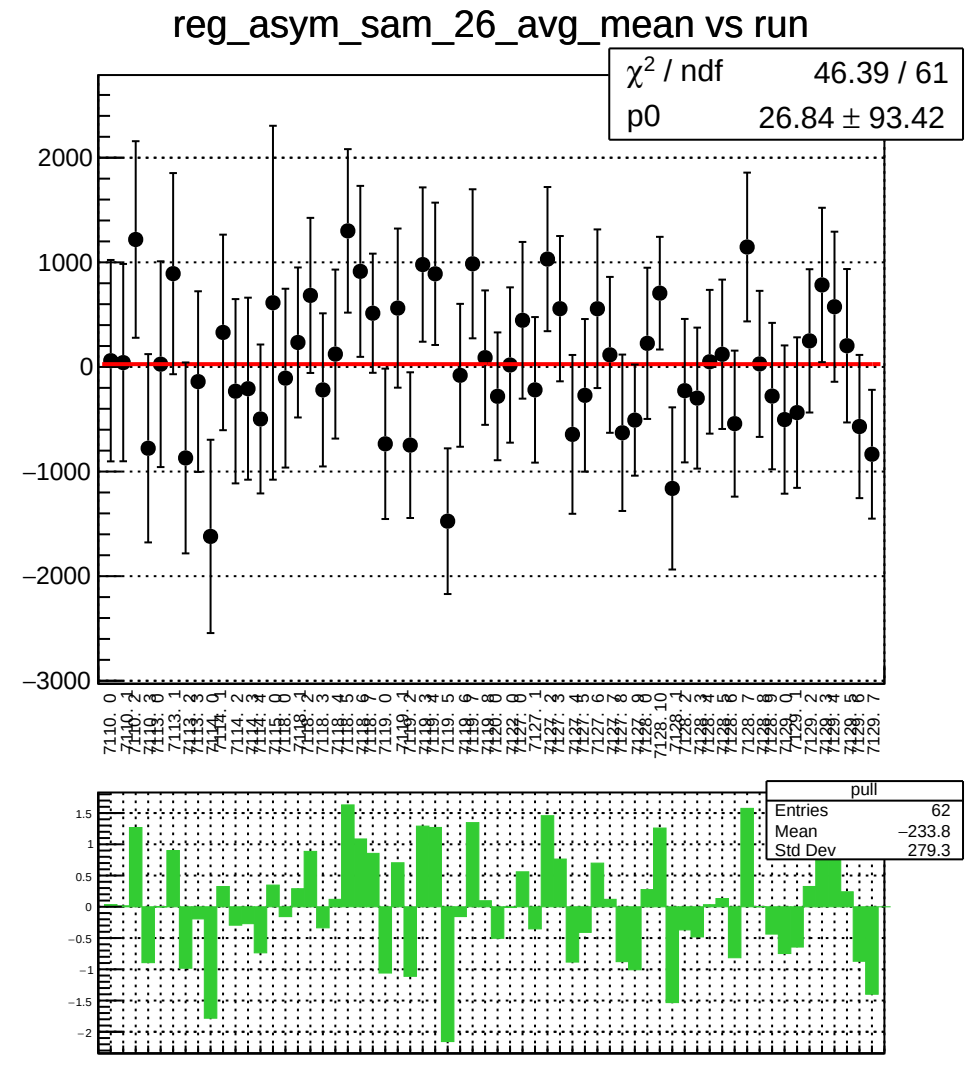

pull1D
Entries 62
Mean −0.01589
Std Dev 0.9744
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

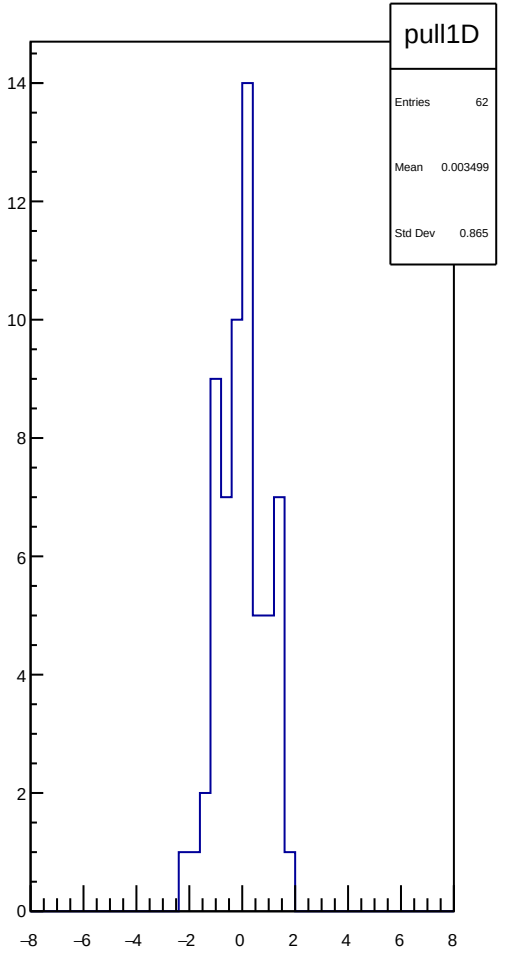

asym_sam_15_avg_correction_rms vs run
χ^2 / ndf 9037 / 61
p0 343.7 ± 0.3165
440
420
400
380
360
340
320
300
280
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

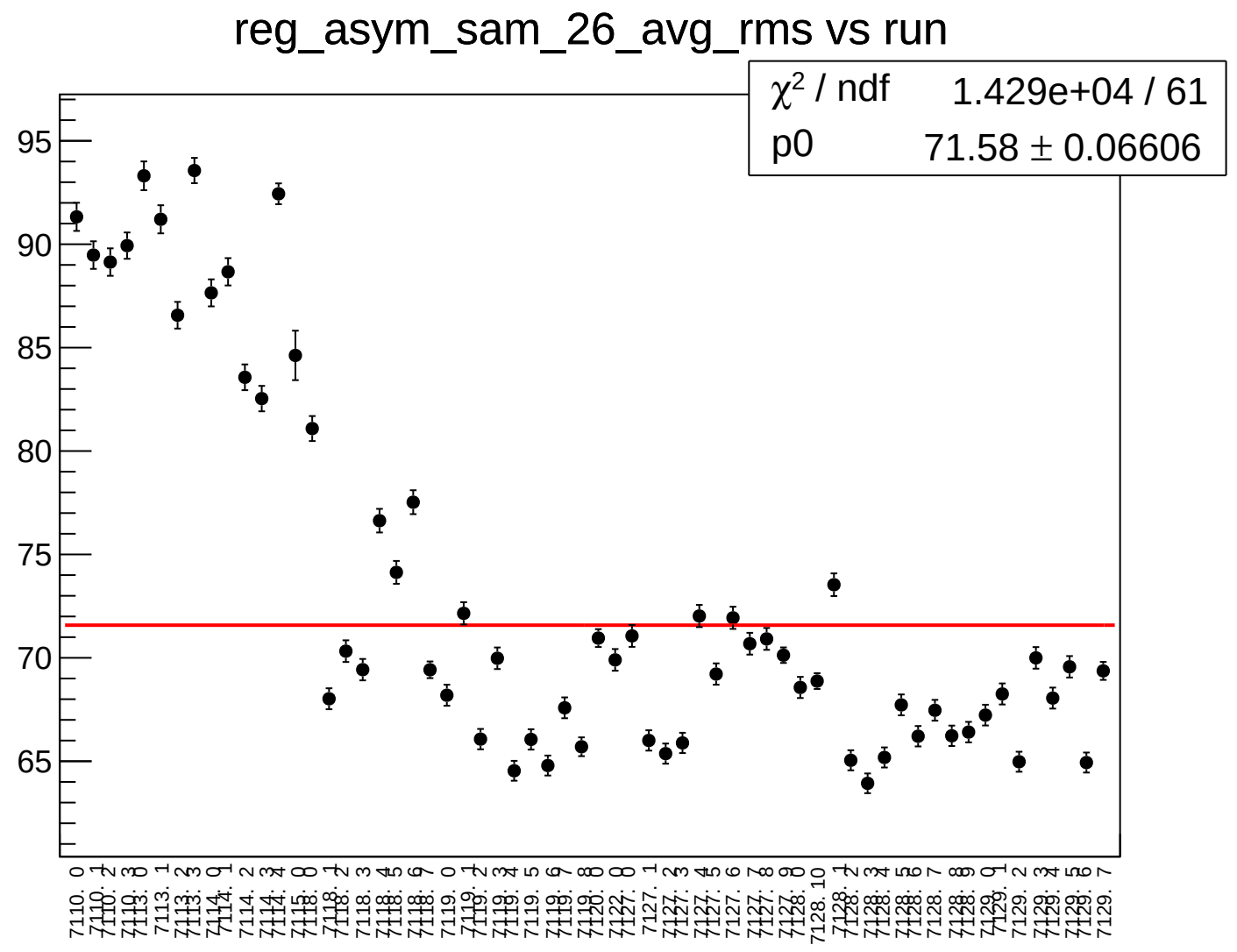

asym_sam_15_avg_mean vs run
χ² / ndf 54.95 / 61
p0 643.9 ± 455.1
10000
5000
0
−5000
−10000
pull
Entries 62
Mean 68.07
Std Dev 51.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

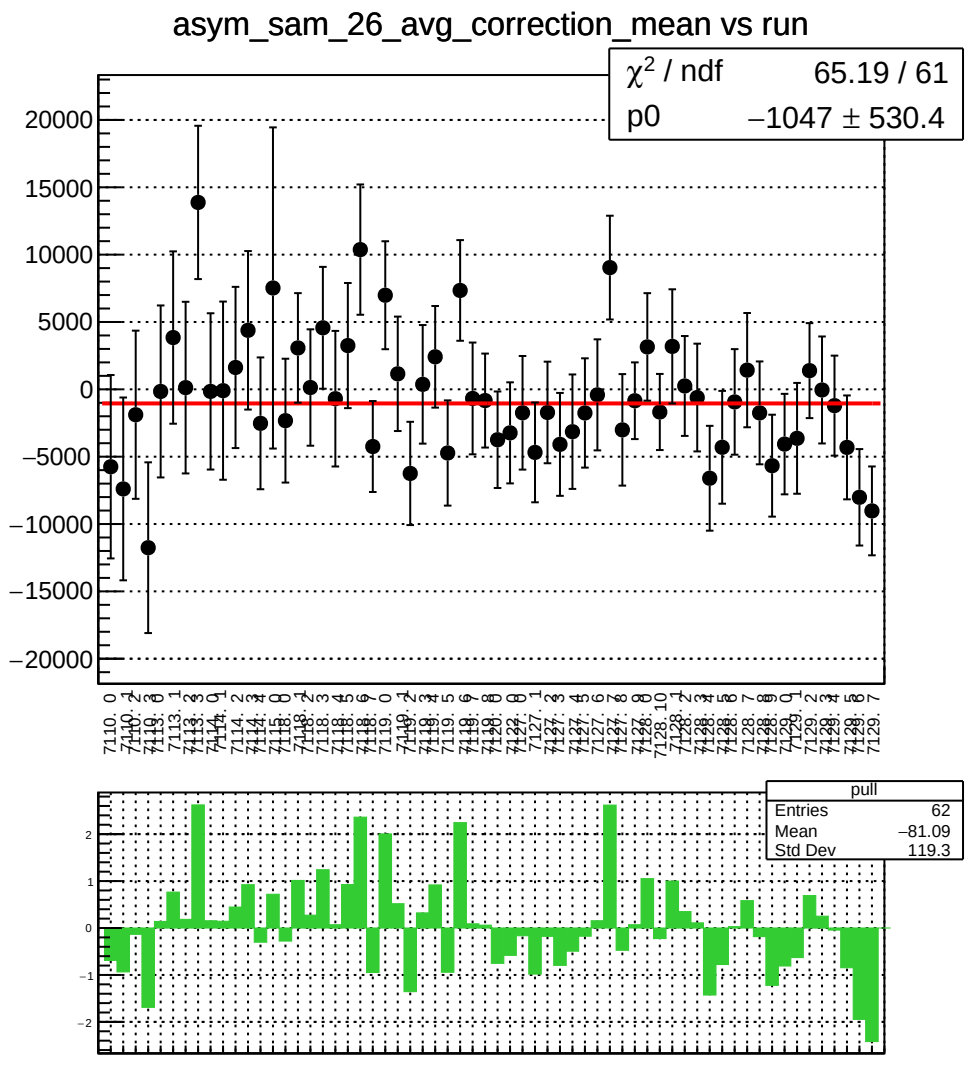

pull1D
Entries 62
Mean 0.01329
Std Dev 0.9413
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

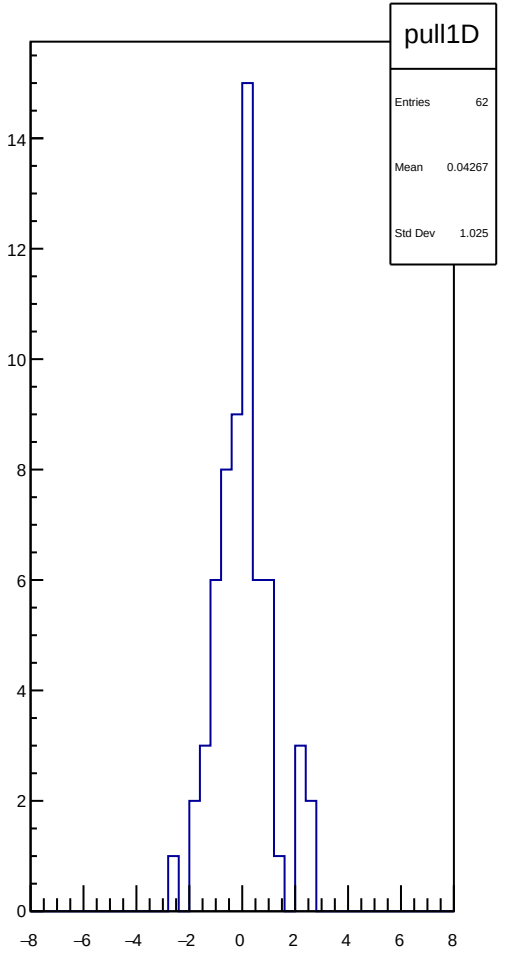

asym_sam_15_avg_rms vs run
χ^2 / ndf 8861 / 61
p0 349.5 ± 0.3218
460
440
420
400
380
360
340
320
300
280

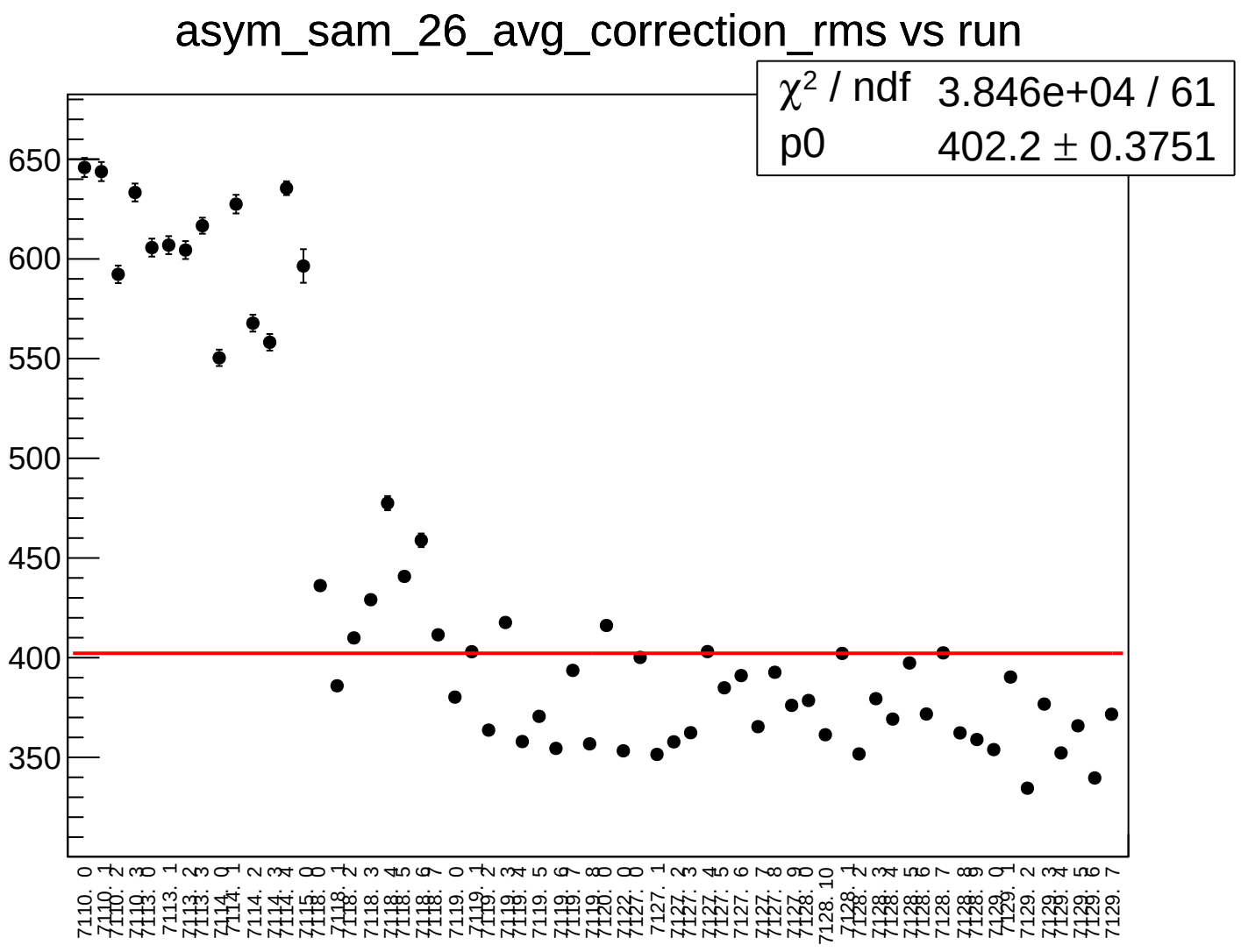

reg_asym_sam_26_avg_mean vs run
χ² / ndf 46.39 / 61
p0 26.84 ± 93.42
pull
Entries 62
Mean −233.8
Std Dev 279.3

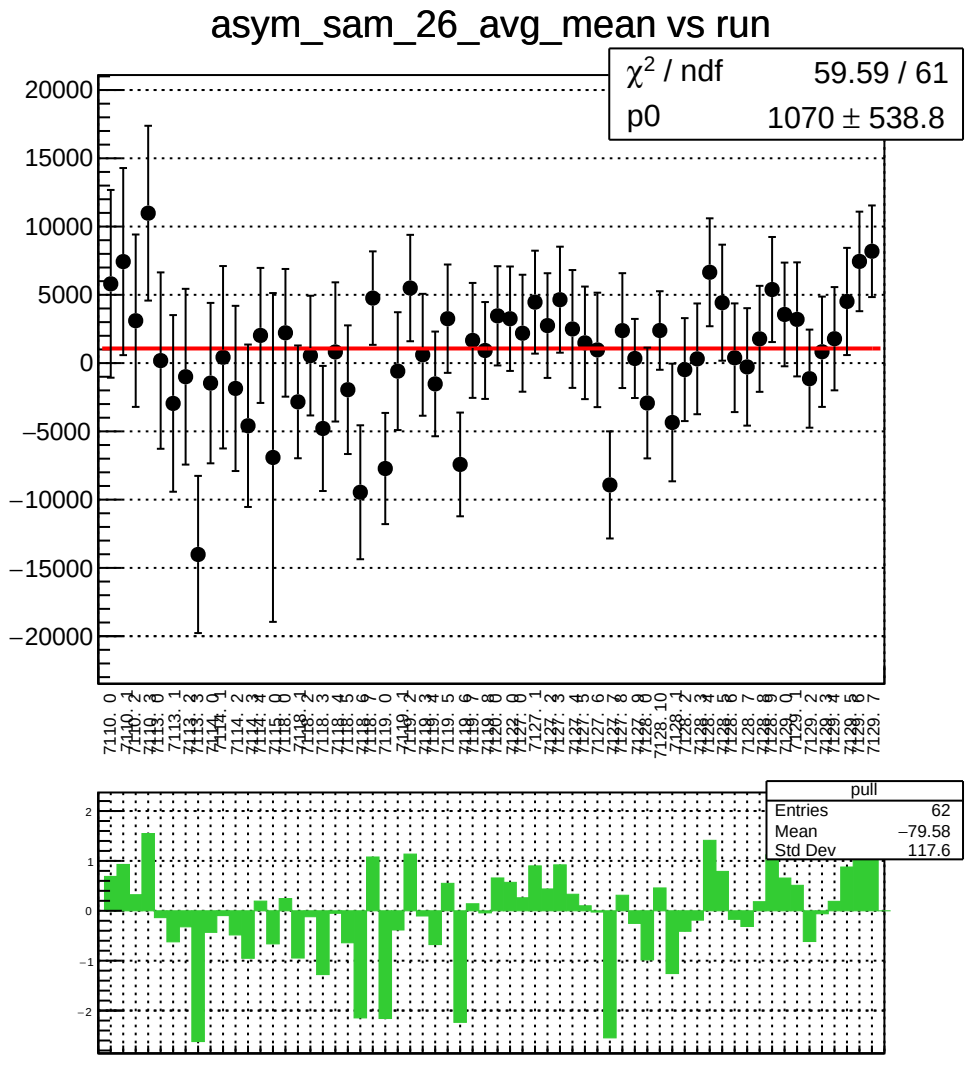

pull1D
Entries 62
Mean 0.003499
Std Dev 0.865

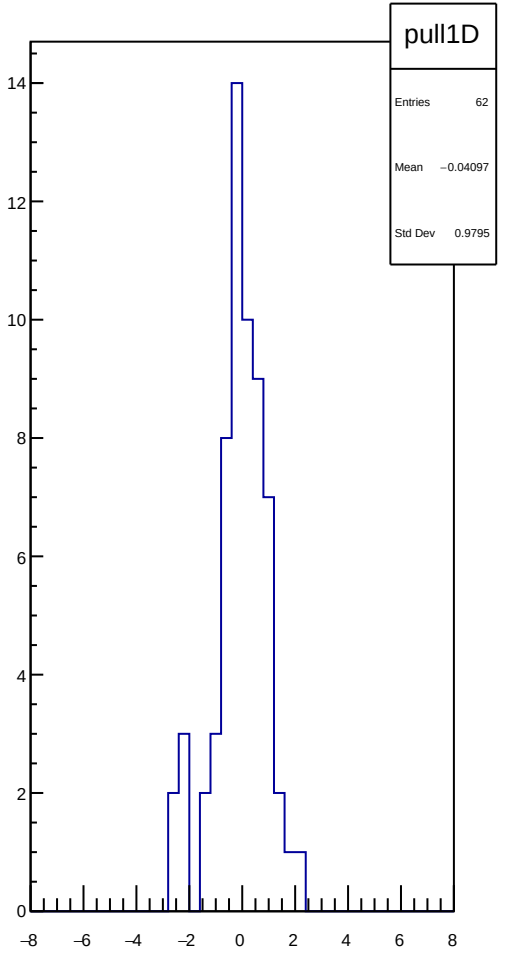

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.429e+04 / 61
p0 71.58 ± 0.06606
95
90
85
80
75
70
65

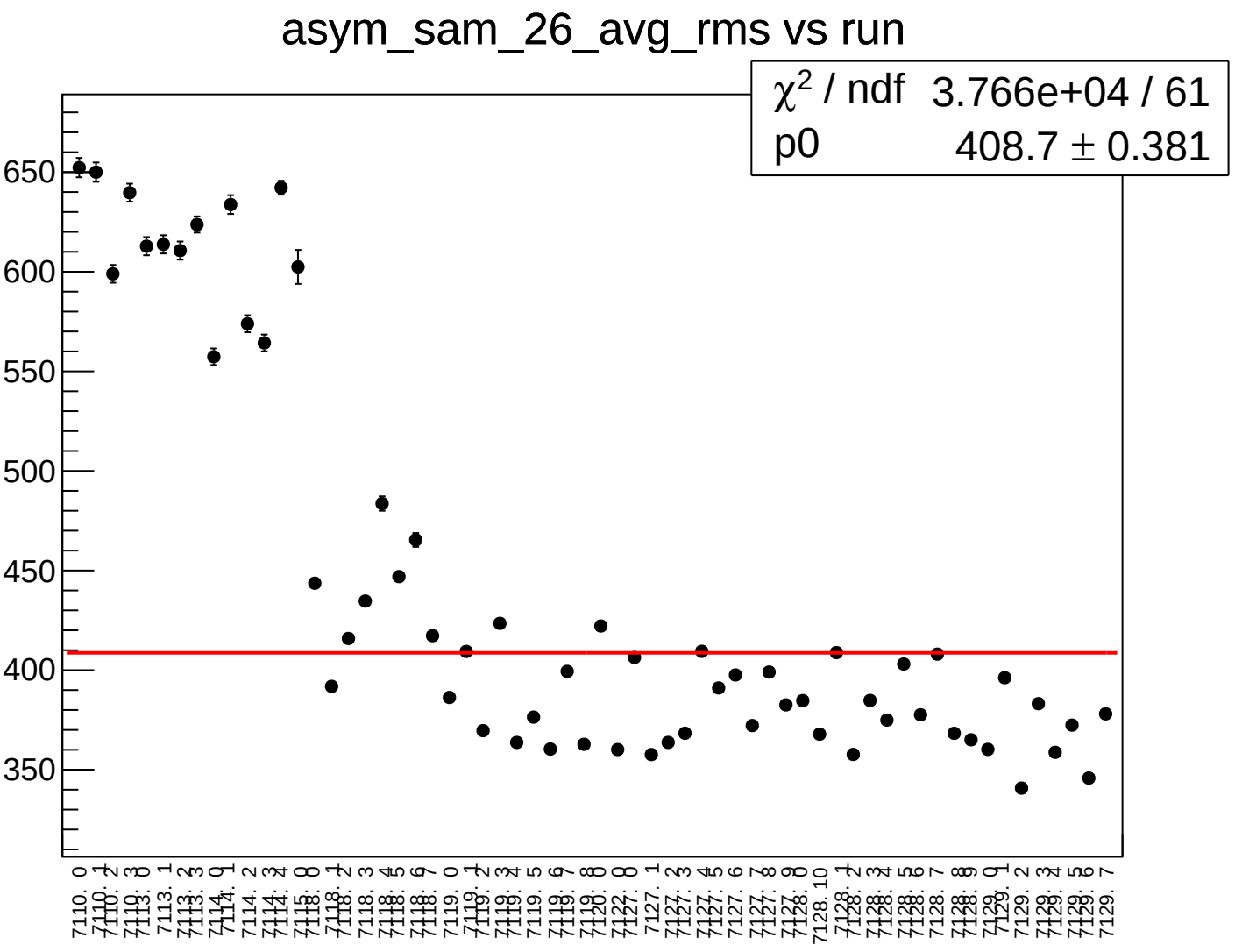

asym_sam_26_avg_correction_mean vs run
χ² / ndf 65.19 / 61
p0 −1047 ± 530.4
pull
Entries 62
Mean −81.09
Std Dev 119.3

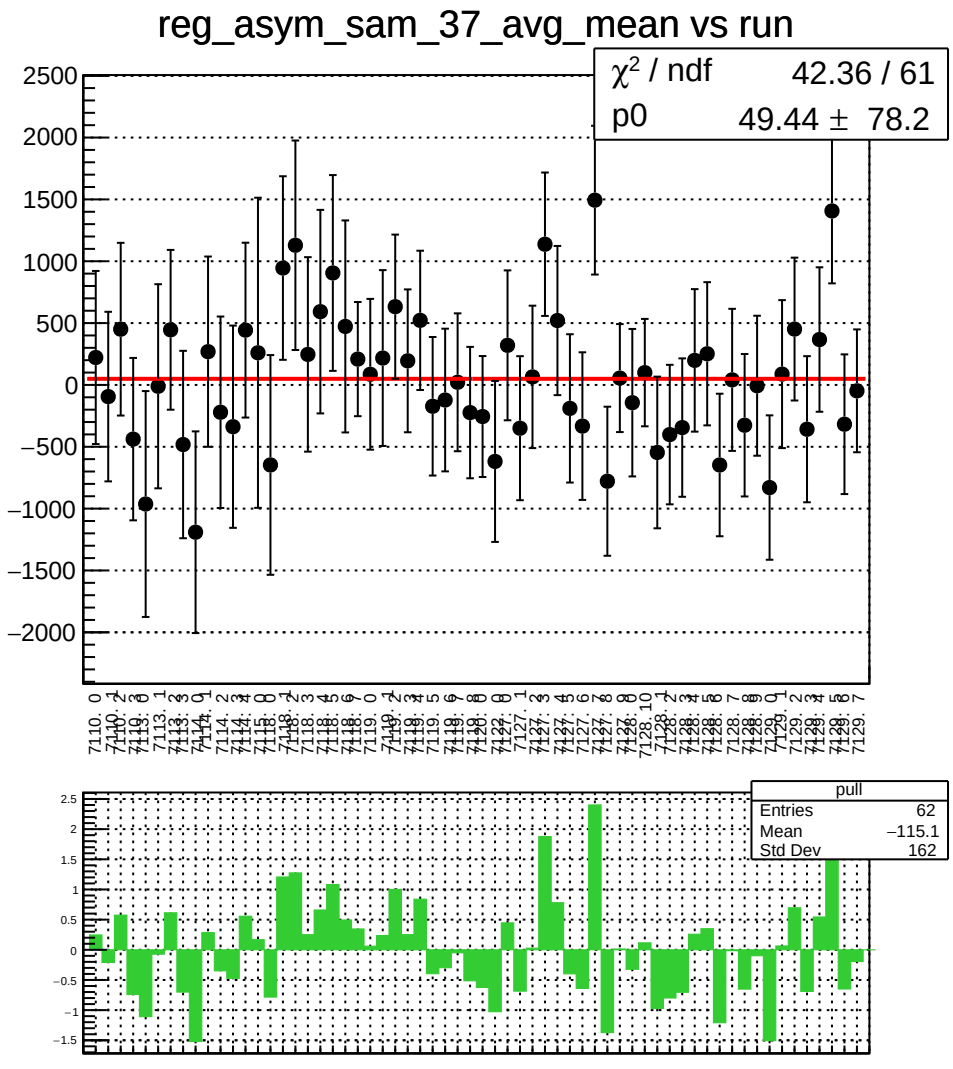

pull1D
Entries 62
Mean 0.04267
Std Dev 1.025

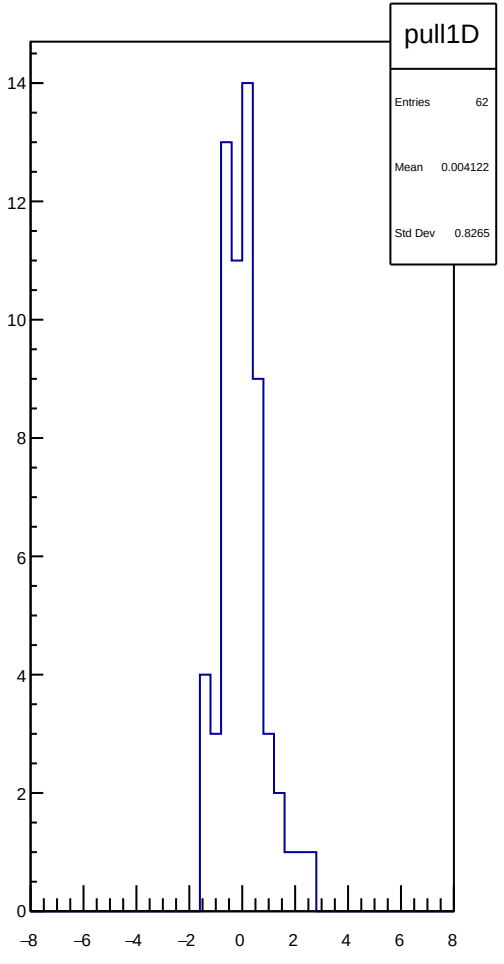

asym_sam_26_avg_correction_rms vs run
χ² / ndf 3.846e+04 / 61
p0 402.2 ± 0.3751
650
600
550
500
450
400
350

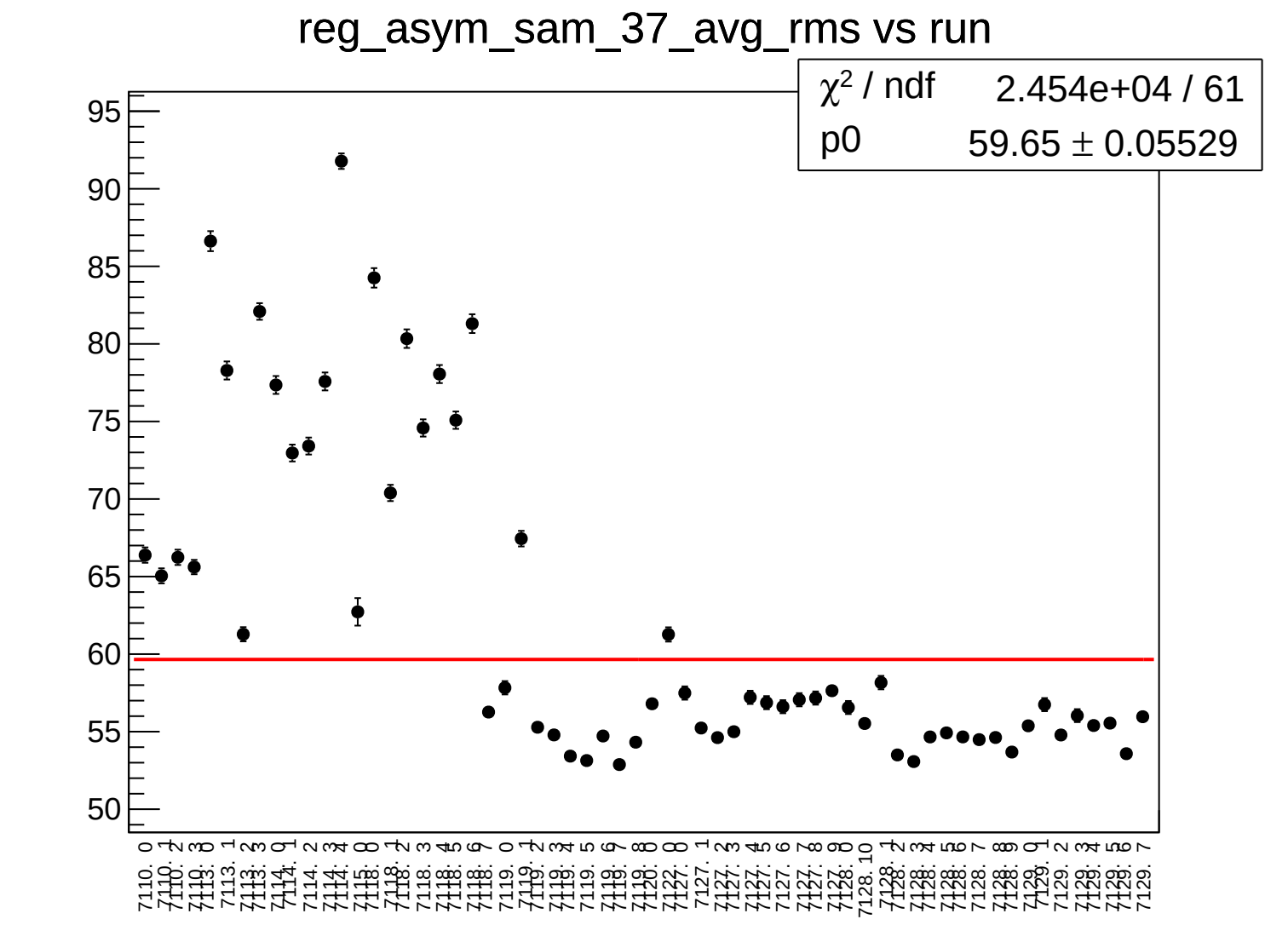

asym_sam_26_avg_mean vs run
χ² / ndf 59.59 / 61
p0 1070 ± 538.8
pull
Entries 62
Mean −79.58
Std Dev 117.6

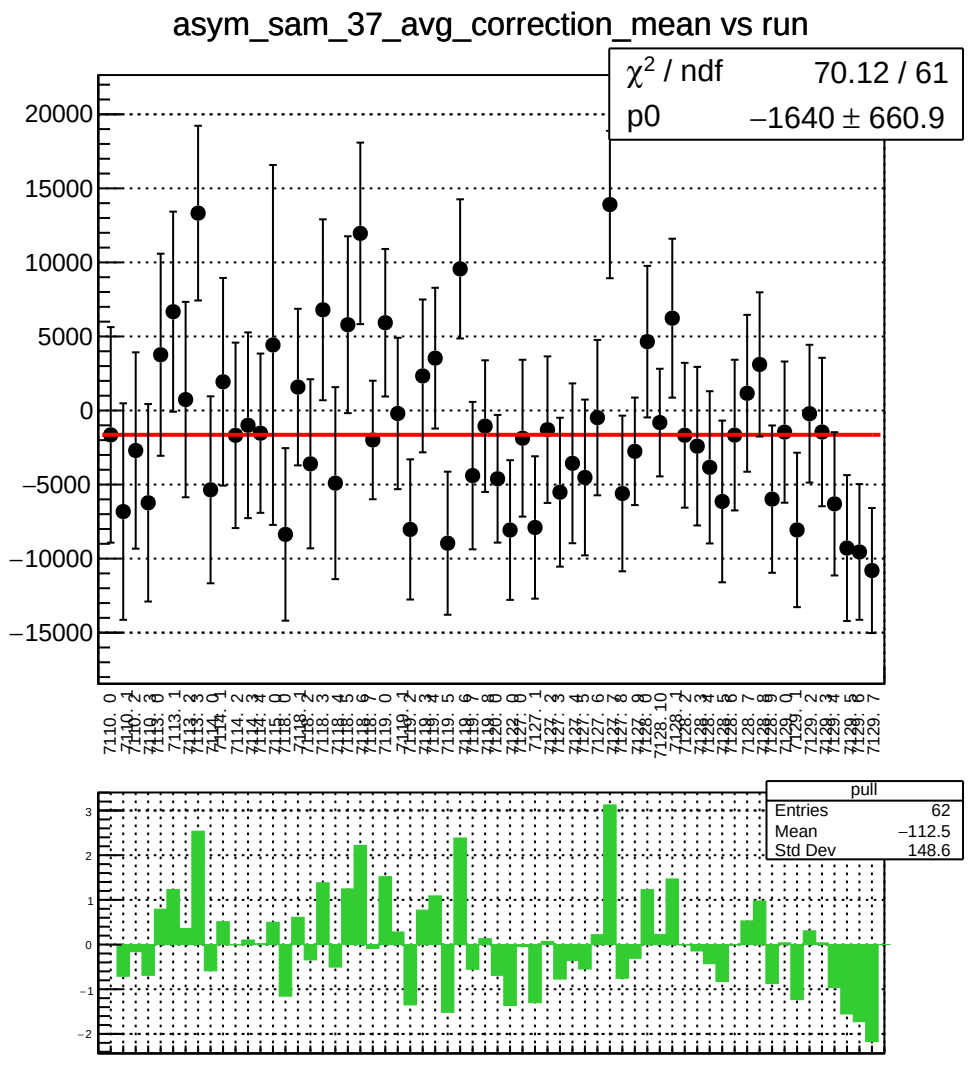

pull1D
Entries 62
Mean −0.04097
Std Dev 0.9795

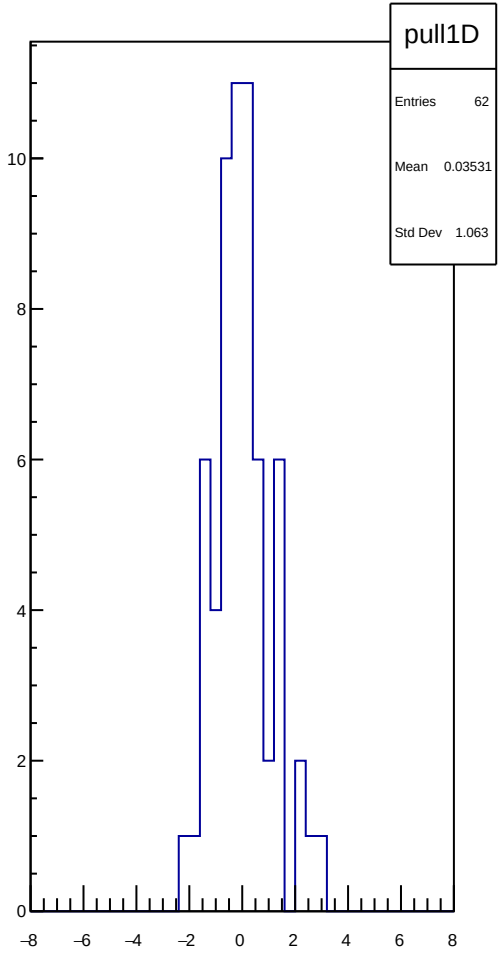

asym_sam_26_avg_rms vs run
χ² / ndf 3.766e+04 / 61
p0 408.7 ± 0.381
650
600
550
500
450
400
350

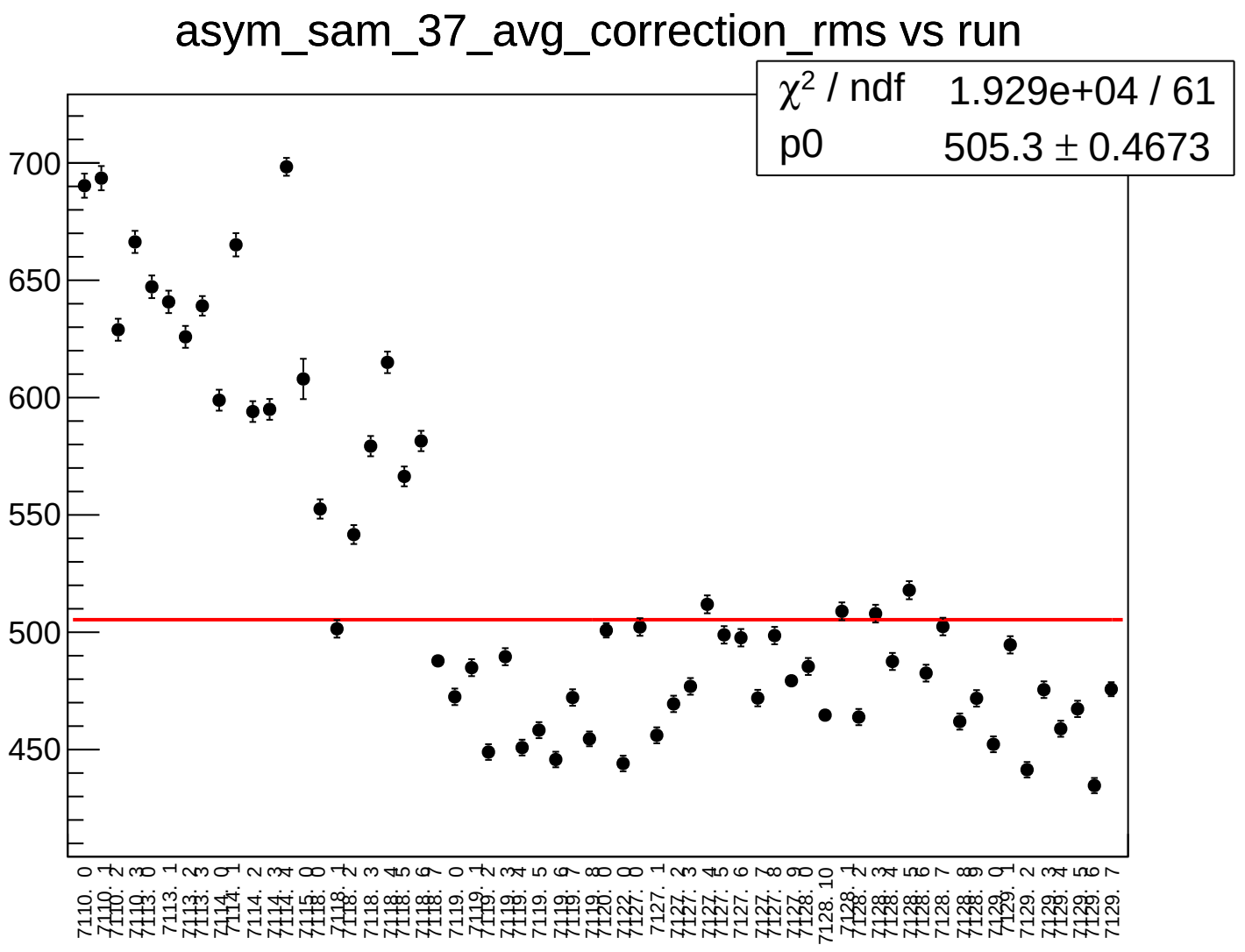

reg_asym_sam_37_avg_mean vs run
χ² / ndf 42.36 / 61
p0 49.44 ± 78.2
pull
Entries 62
Mean −115.1
Std Dev 162

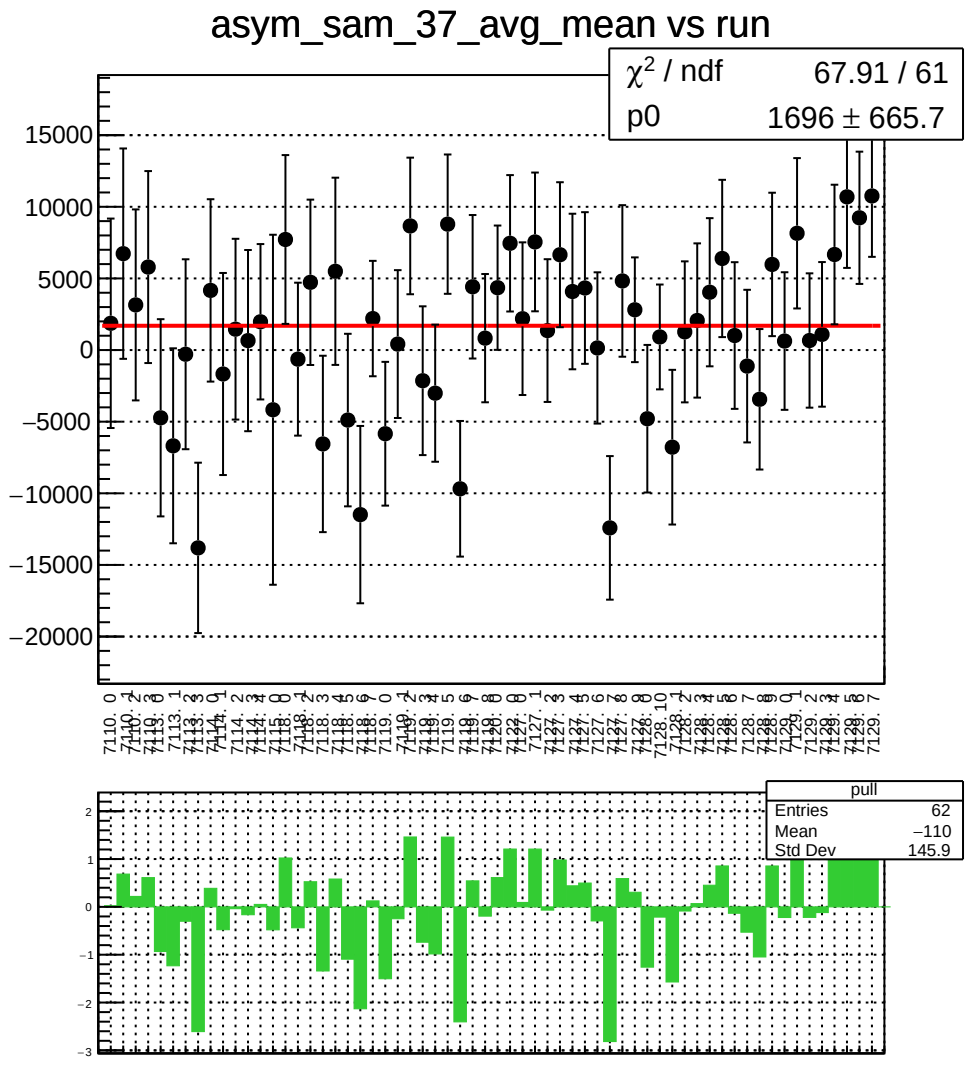

pull1D
Entries 62
Mean 0.004122
Std Dev 0.8265

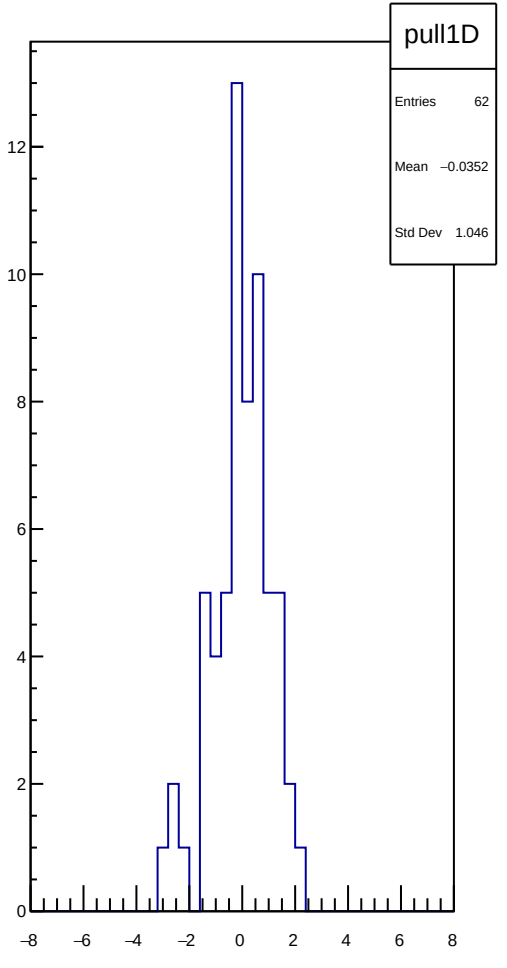

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.454e+04 / 61
p0 59.65 ± 0.05529
95
90
85
80
75
70
65
60
55
50
7110. 0
7110. 1
7110. 2
7110. 3
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

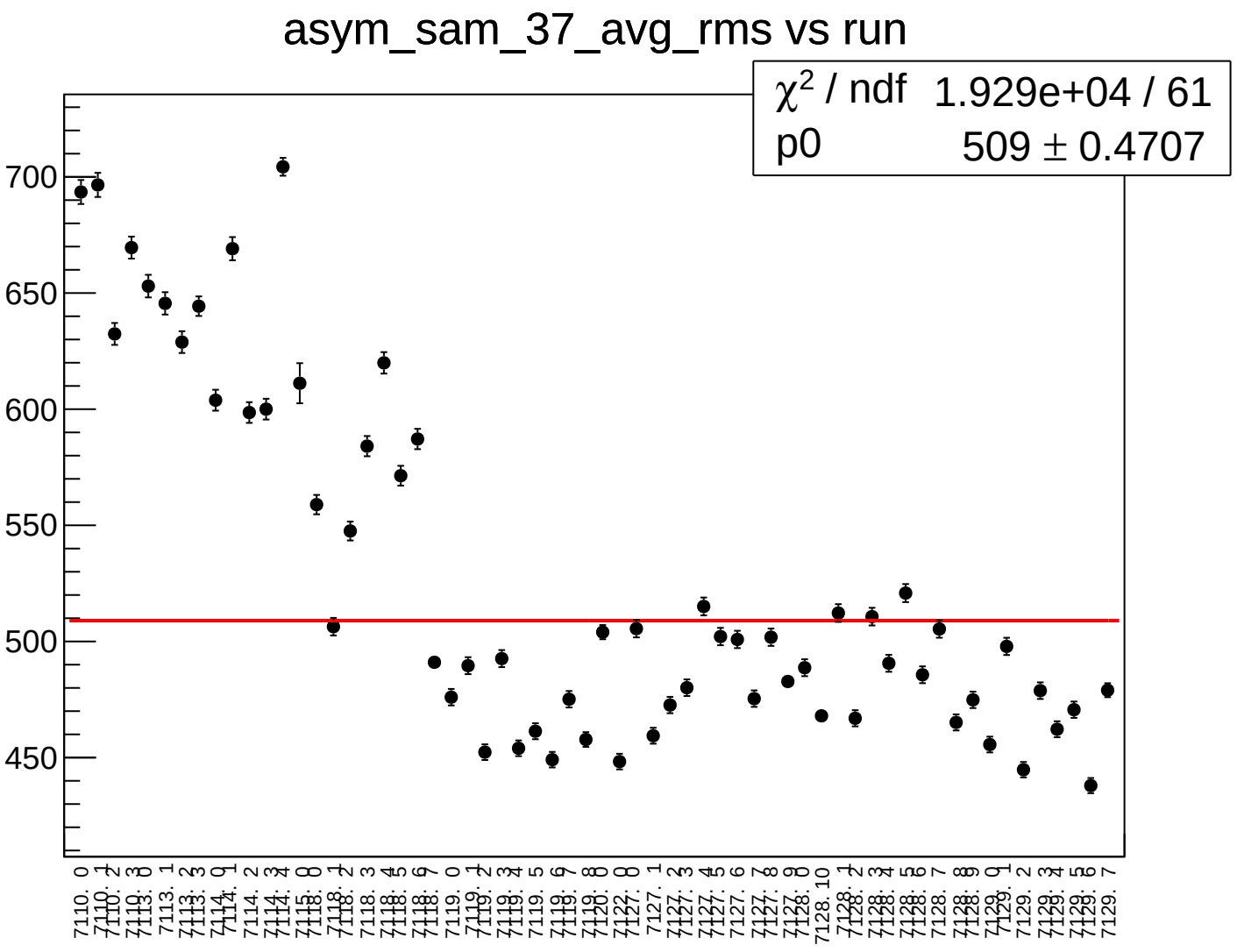

asym_sam_37_avg_correction_mean vs run
χ² / ndf 70.12 / 61
p0 −1640 ± 660.9
pull
Entries 62
Mean −112.5
Std Dev 148.6

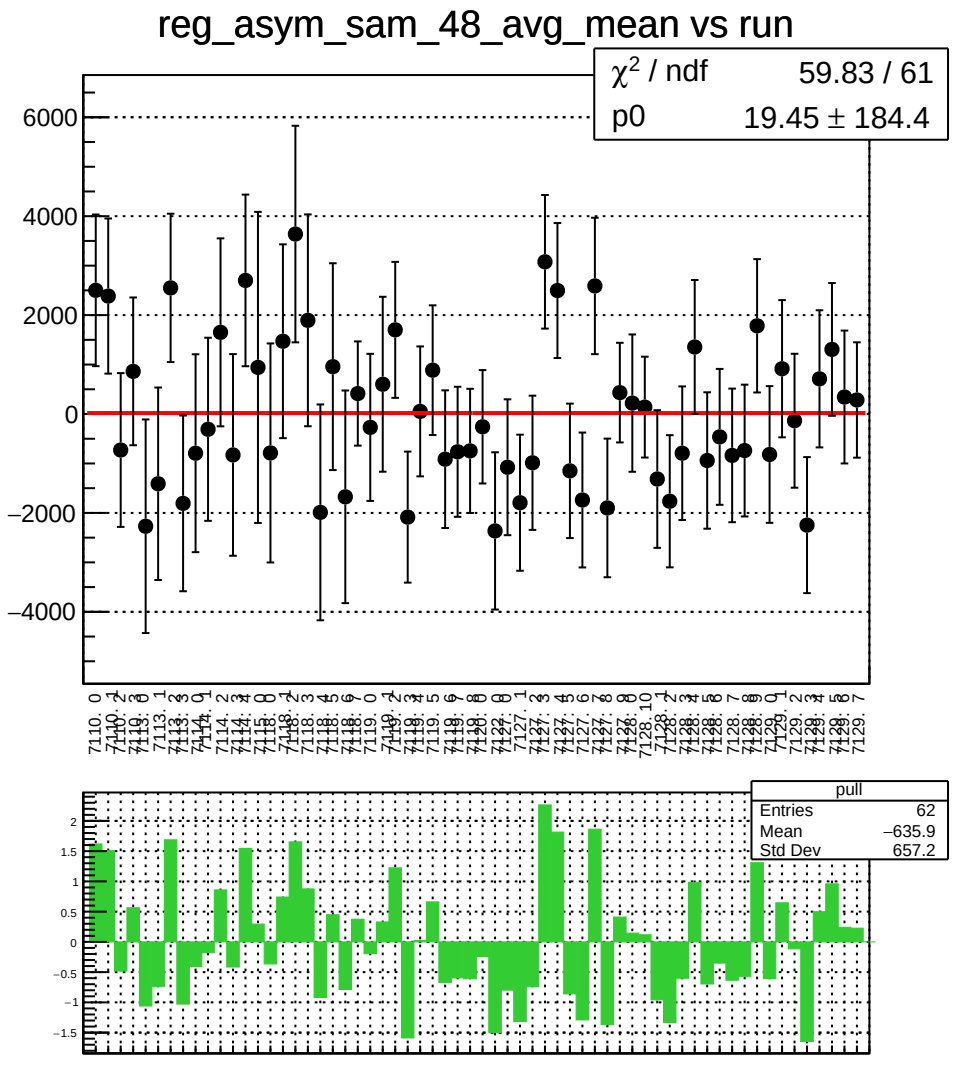

pull1D
Entries 62
Mean 0.03531
Std Dev 1.063

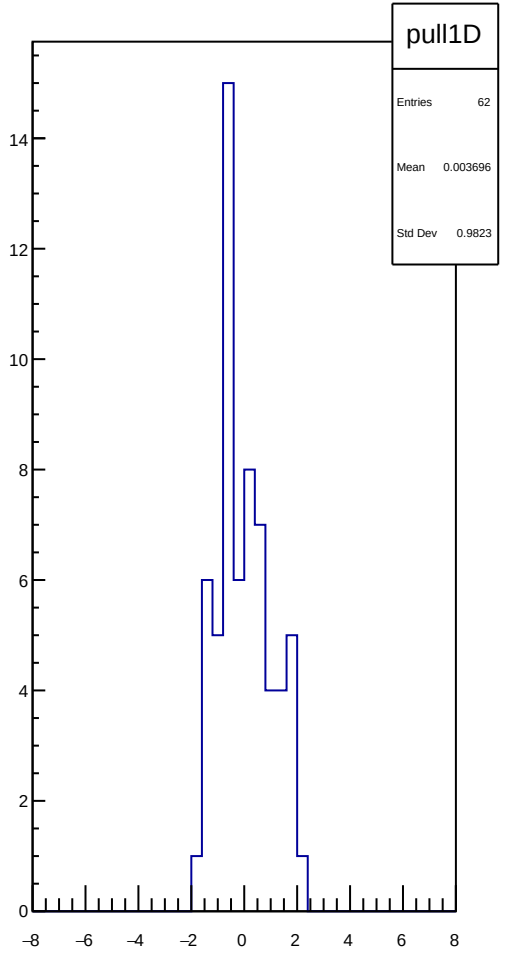

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1.929e+04 / 61
p0 505.3 ± 0.4673
700
650
600
550
500
450
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

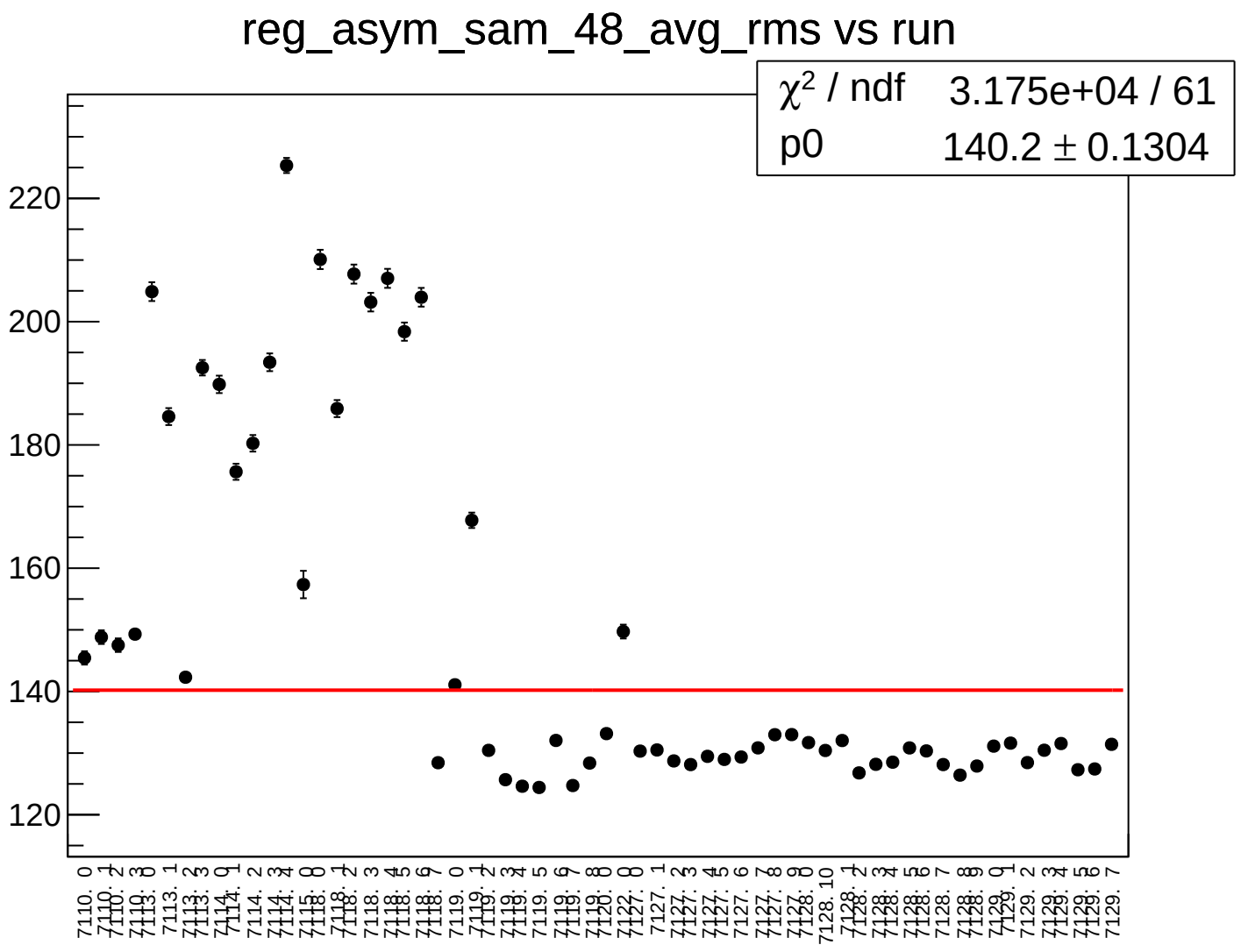

asym_sam_37_avg_mean vs run
χ² / ndf 67.91 / 61
p0 1696 ± 665.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 62
Mean −110
Std Dev 145.9
2
1
0
−1
−2
−3

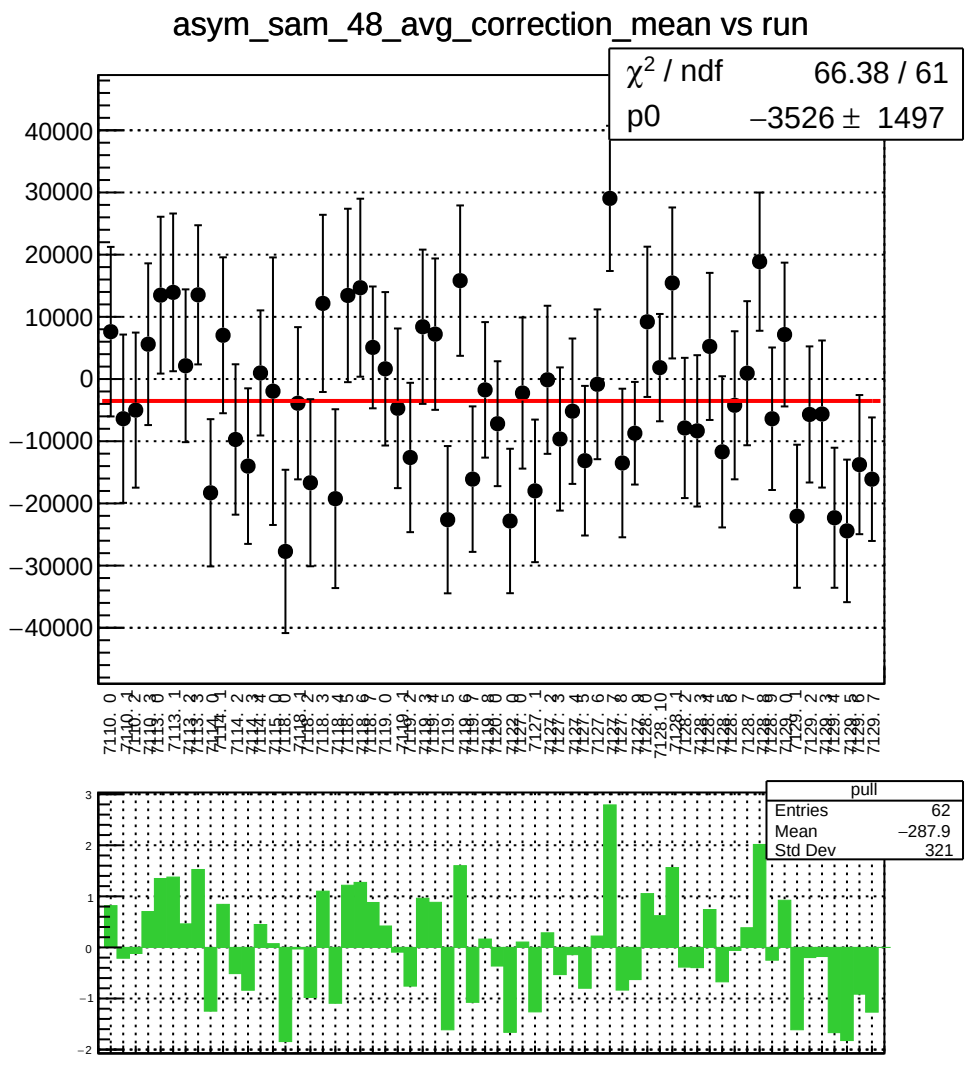

pull1D
Entries 62
Mean −0.0352
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

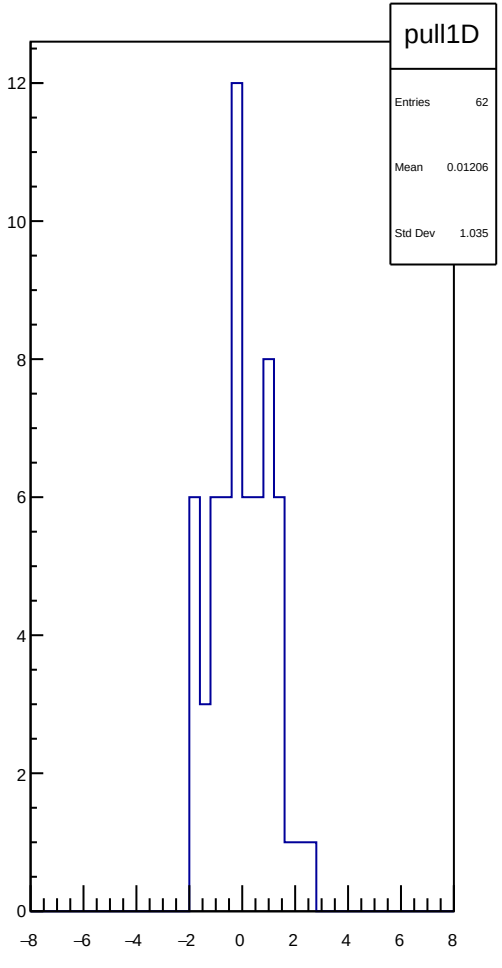

asym_sam_37_avg_rms vs run
χ^2 / ndf 1.929e+04 / 61
p0 509 ± 0.4707
700
650
600
550
500
450
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

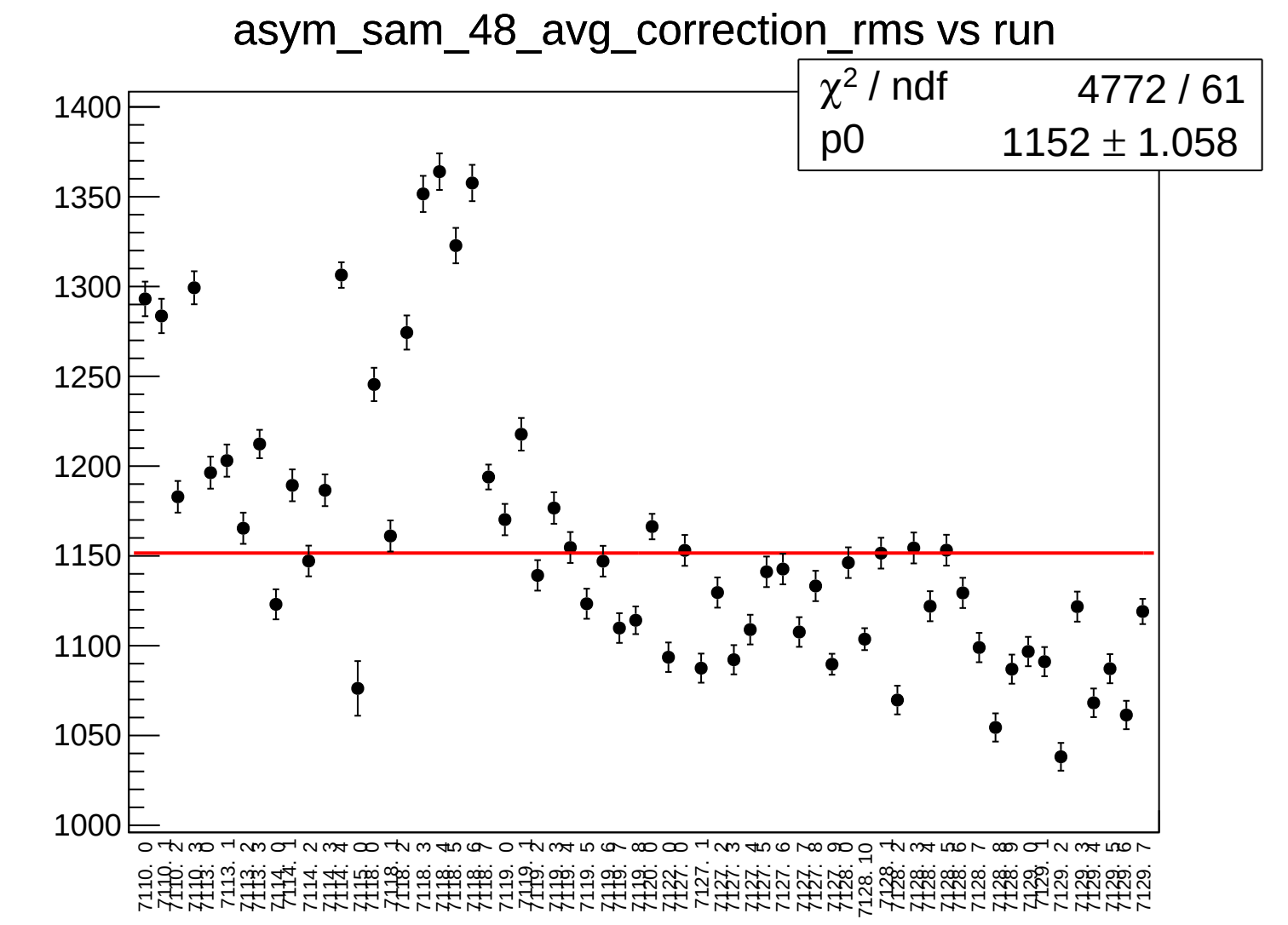

reg_asym_sam_48_avg_mean vs run
χ² / ndf 59.83 / 61
p0 19.45 ± 184.4
pull
Entries 62
Mean −635.9
Std Dev 657.2

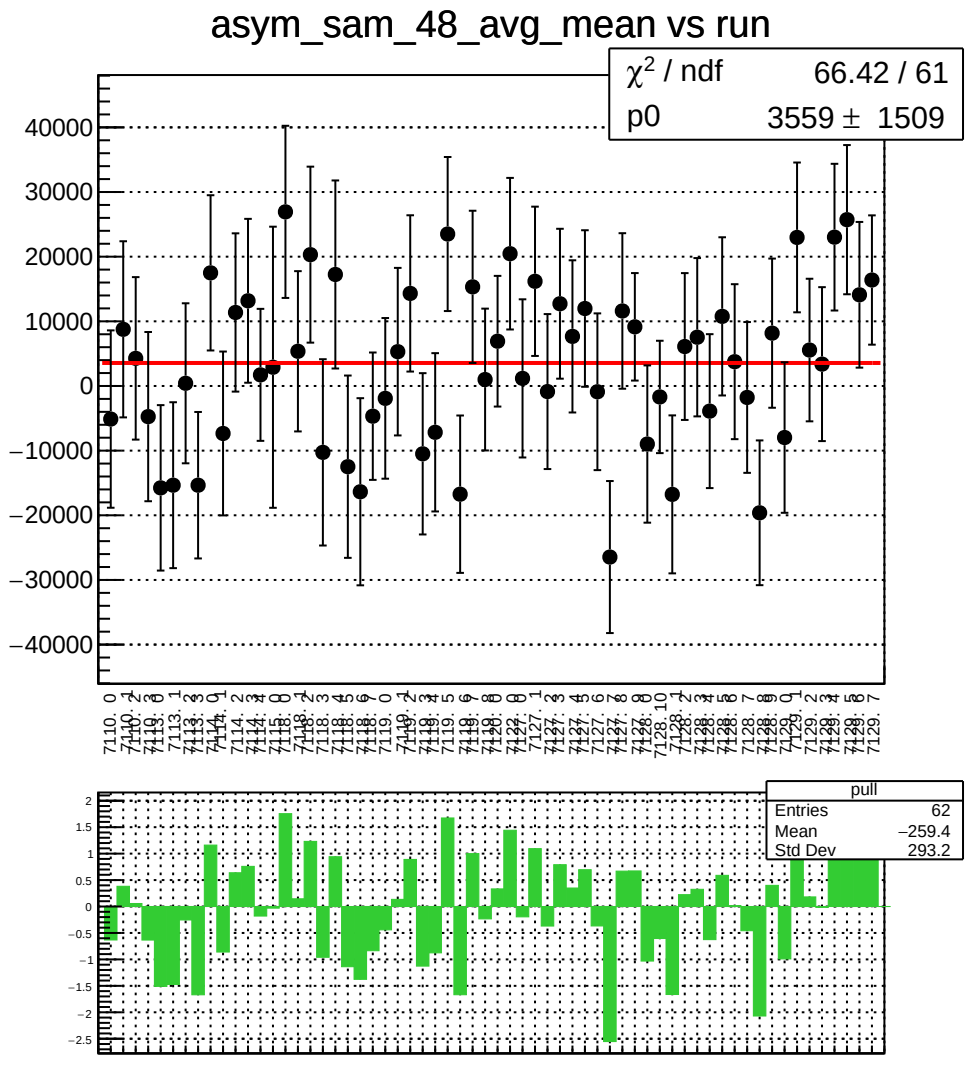

pull1D
Entries 62
Mean 0.003696
Std Dev 0.9823

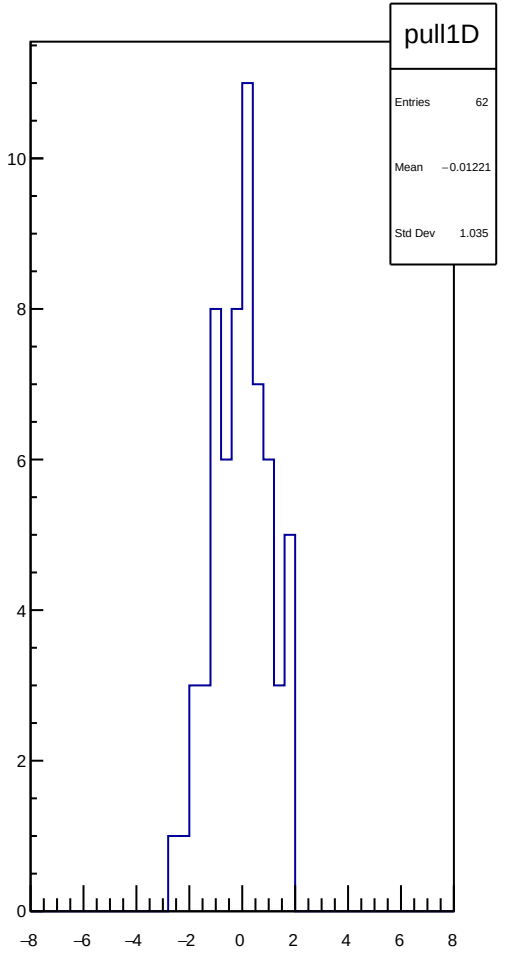

reg_asym_sam_48_avg_rms vs run
χ² / ndf 3.175e+04 / 61
p0 140.2 ± 0.1304
220
200
180
160
140
120
7110. 0
7110. 1
7110. 2
7110. 3
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

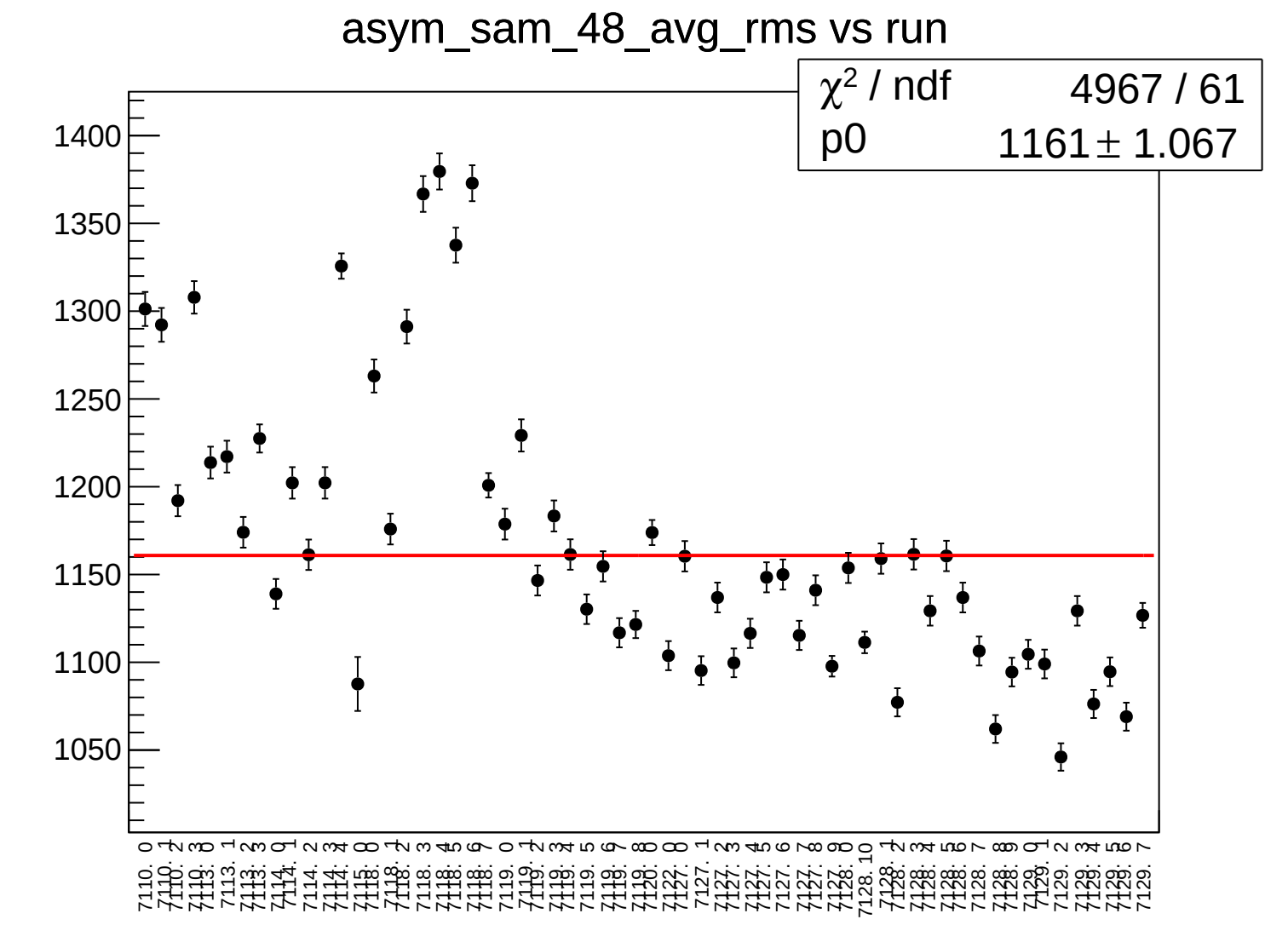

asym_sam_48_avg_correction_mean vs run
χ² / ndf 66.38 / 61
p0 −3526 ± 1497
pull
Entries 62
Mean −287.9
Std Dev 321

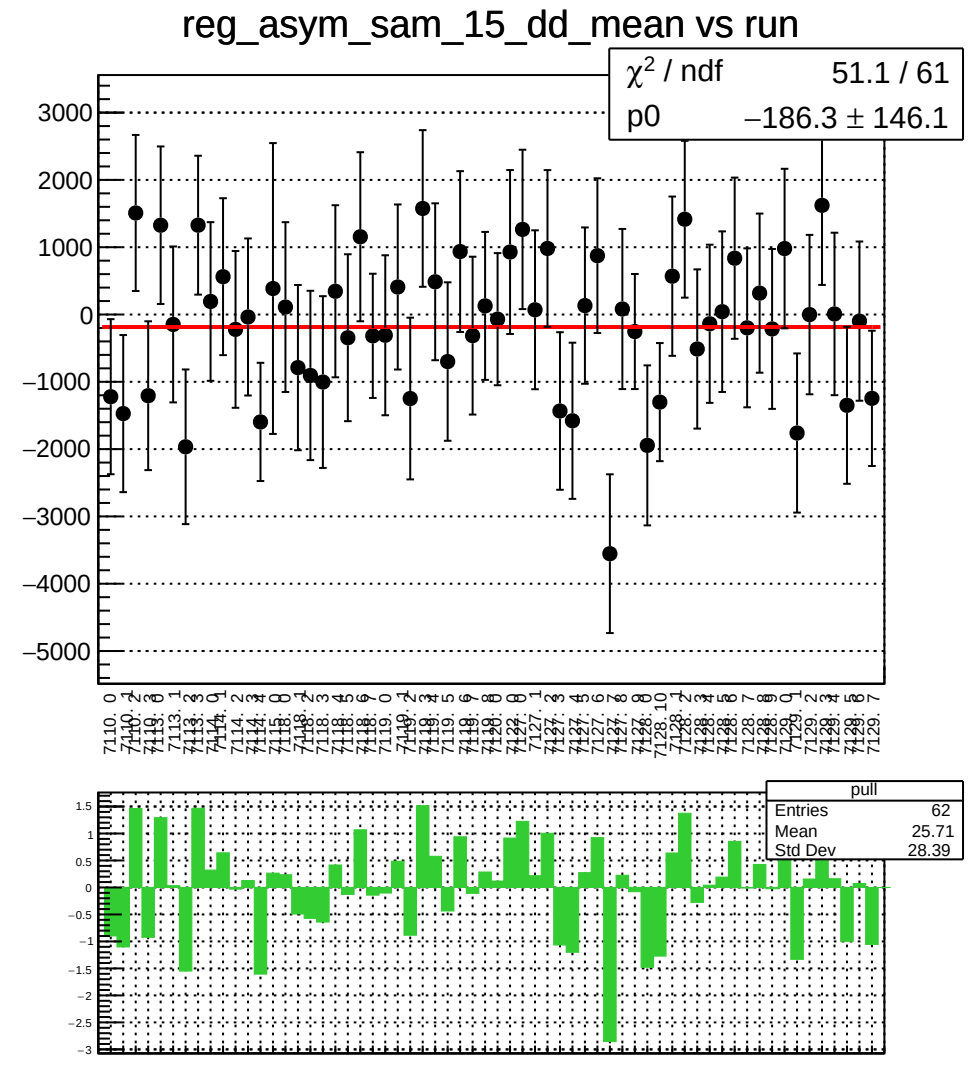

pull1D
Entries 62
Mean 0.01206
Std Dev 1.035

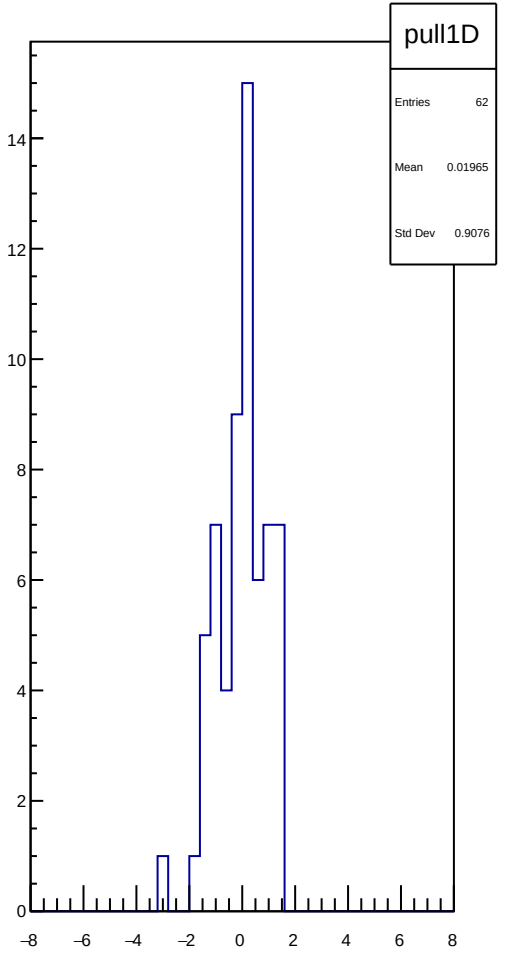

asym_sam_48_avg_correction_rms vs run
χ² / ndf 4772 / 61
p0 1152 ± 1.058
1400
1350
1300
1250
1200
1150
1100
1050
1000
7110. 0
7110. 1
7110. 2
7110. 3
7110. 4
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

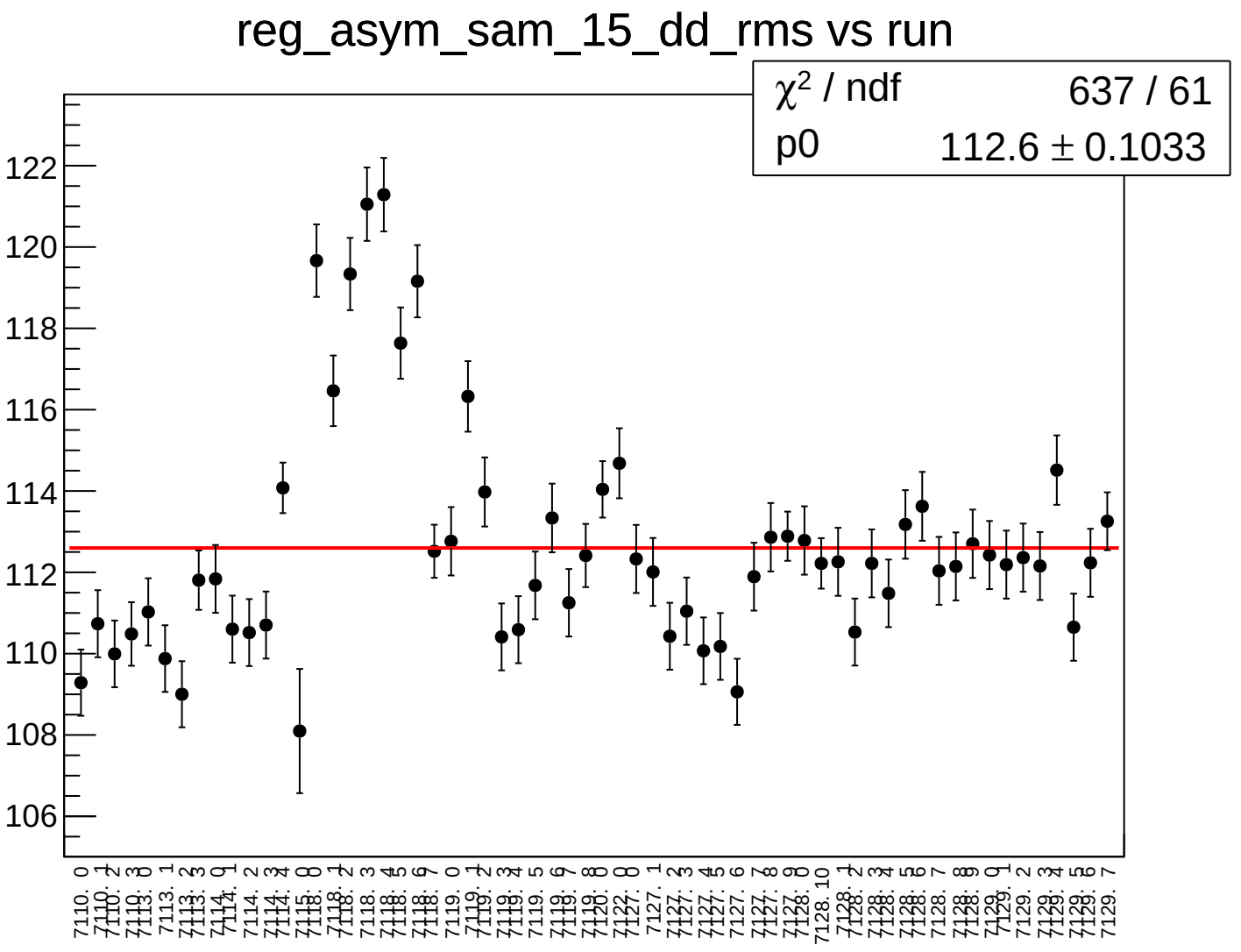

asym_sam_48_avg_mean vs run
χ² / ndf 66.42 / 61
p0 3559 ± 1509
pull
Entries 62
Mean −259.4
Std Dev 293.2

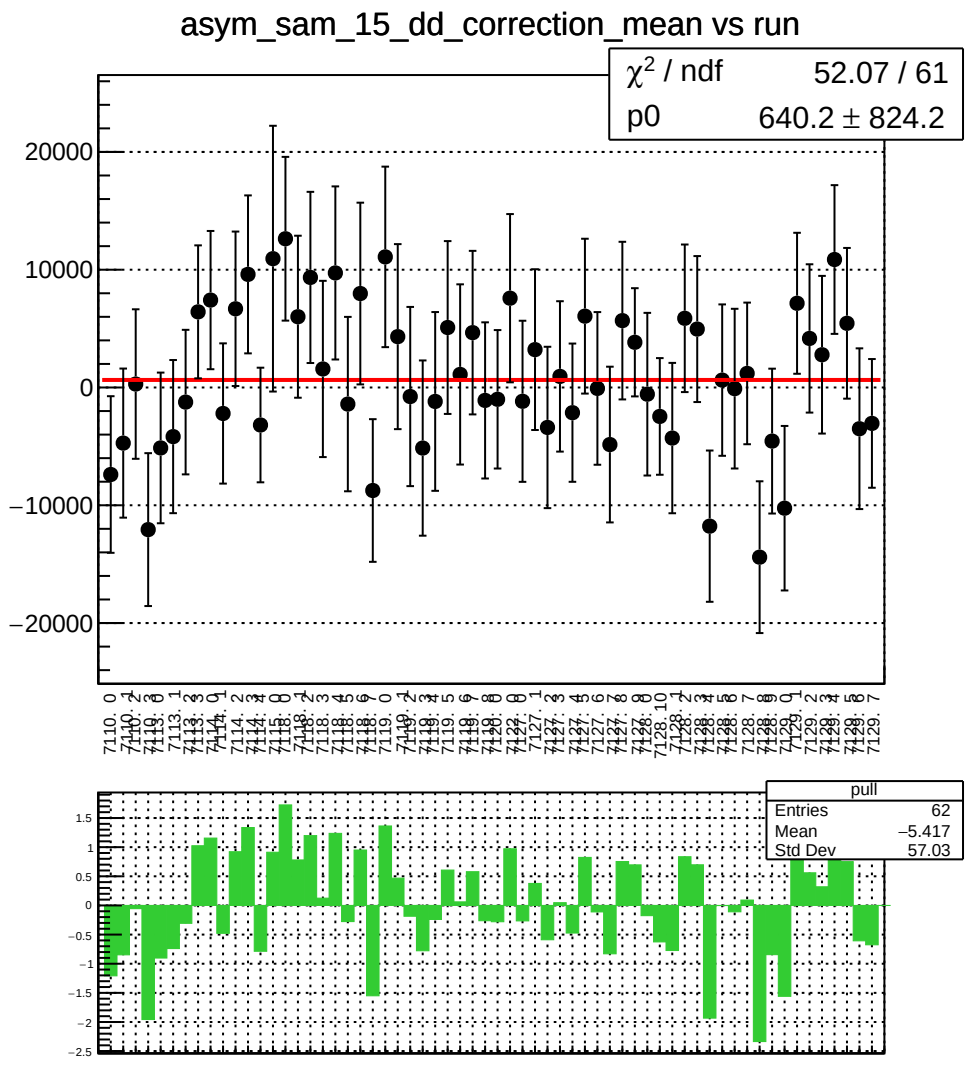

pull1D
Entries 62
Mean −0.01221
Std Dev 1.035

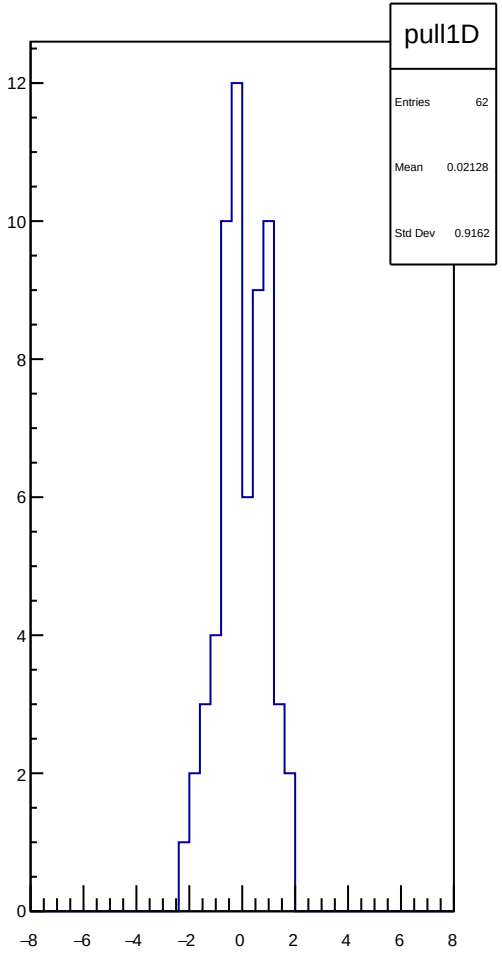

asym_sam_48_avg_rms vs run
χ² / ndf 4967 / 61
p0 1161 ± 1.067
1400
1350
1300
1250
1200
1150
1100
1050

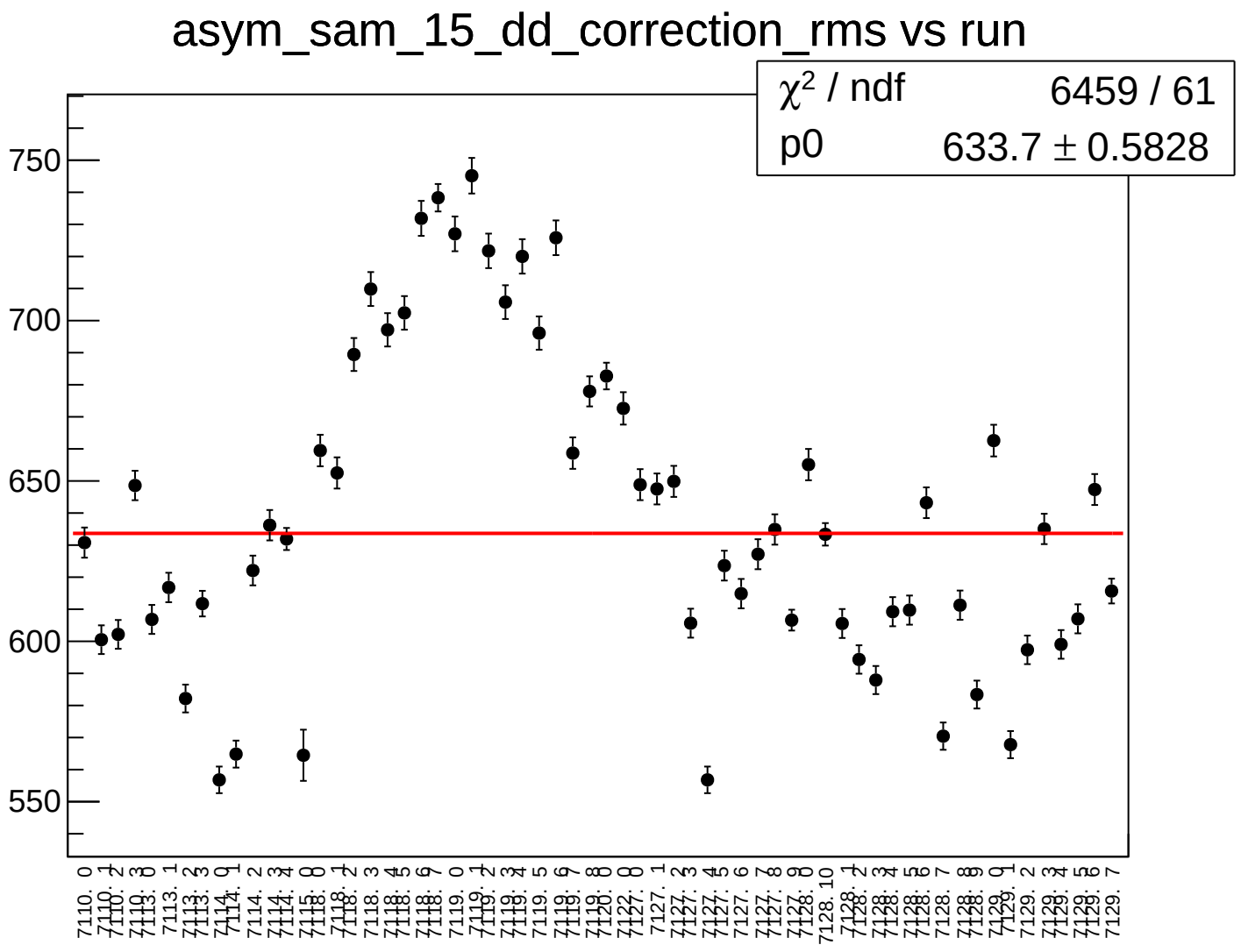

reg_asym_sam_15_dd_mean vs run
χ² / ndf 51.1 / 61
p0 −186.3 ± 146.1
pull
Entries 62
Mean 25.71
Std Dev 28.39

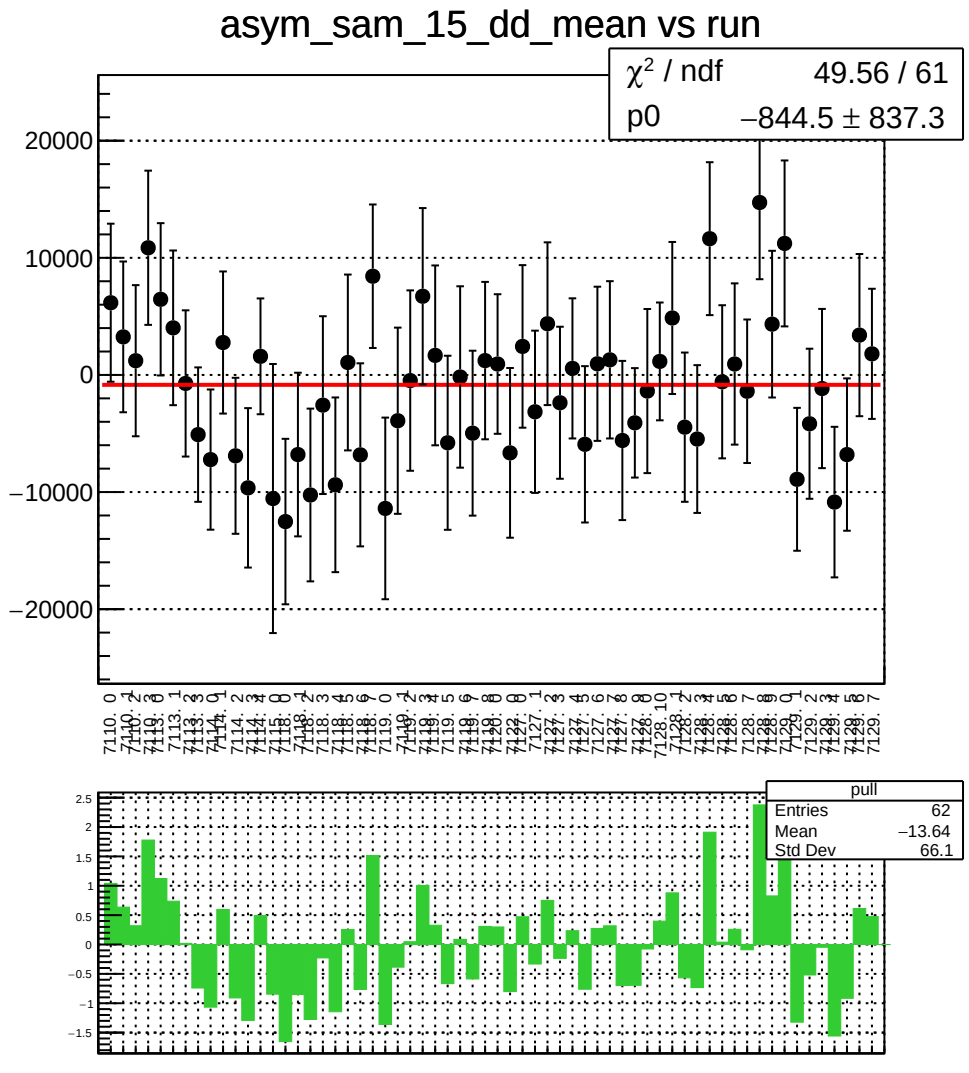

pull1D
Entries 62
Mean 0.01965
Std Dev 0.9076

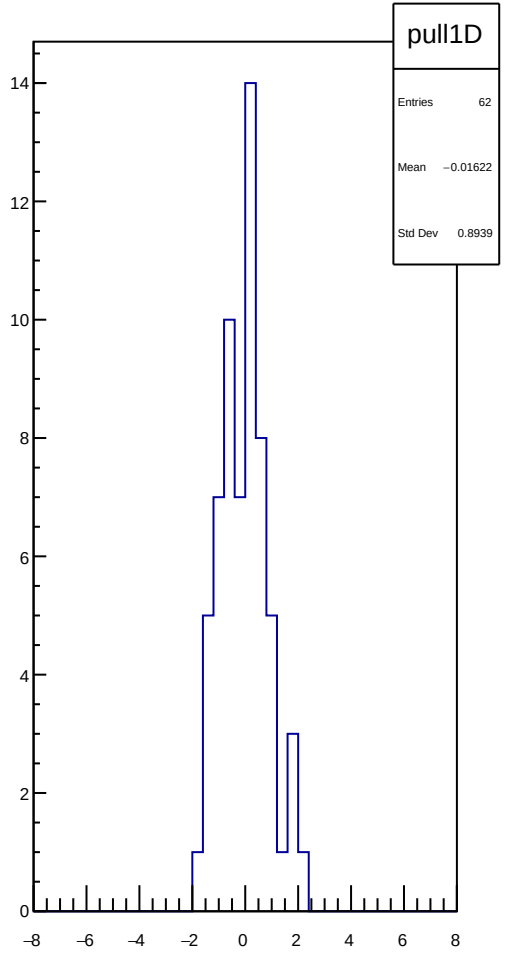

reg_asym_sam_15_dd_rms vs run
χ² / ndf 637 / 61
p0 112.6 ± 0.1033
122
120
118
116
114
112
110
108
106

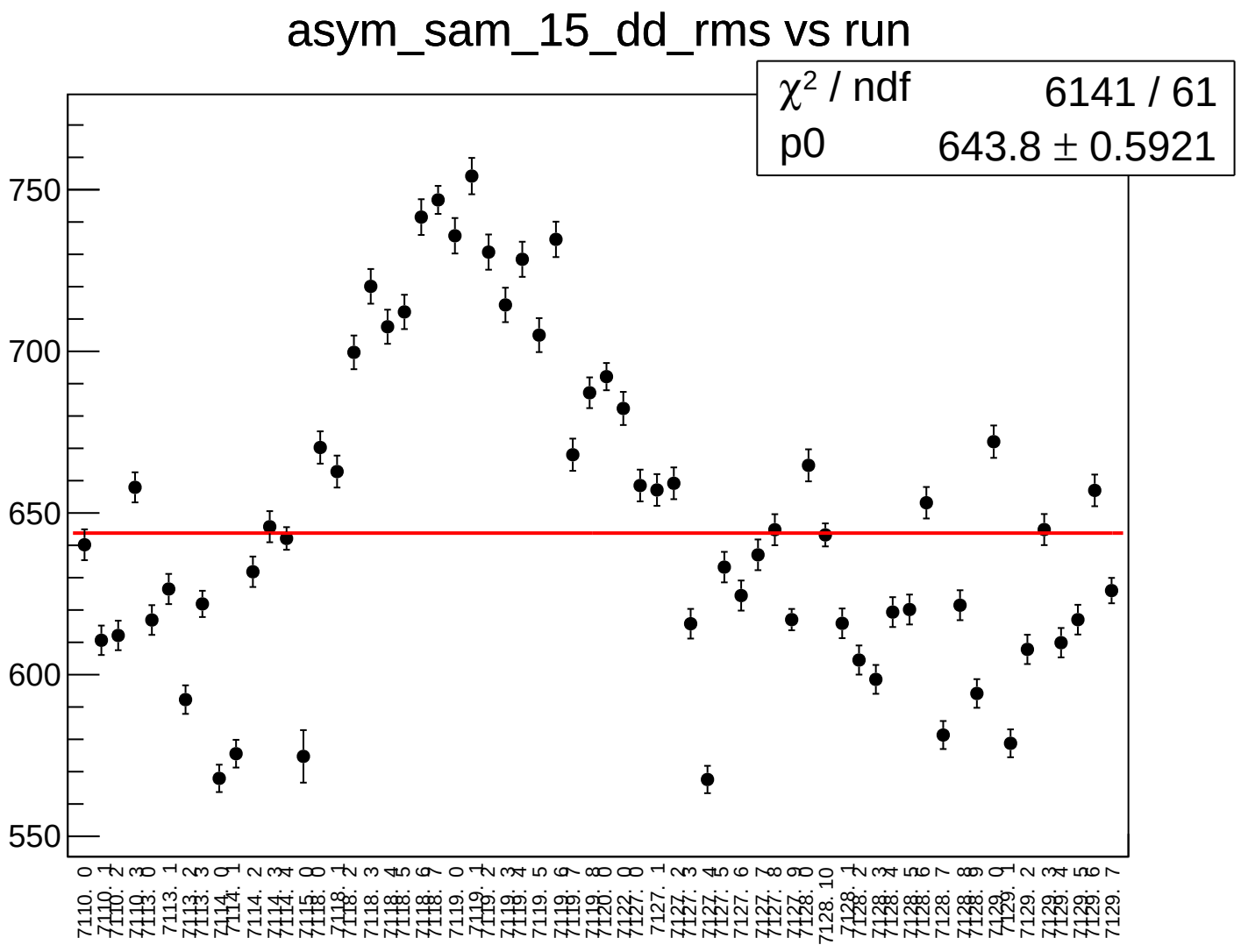

asym_sam_15_dd_correction_mean vs run
χ² / ndf 52.07 / 61
p0 640.2 ± 824.2
20000
10000
0
−10000
−20000
pull
Entries 62
Mean −5.417
Std Dev 57.03
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

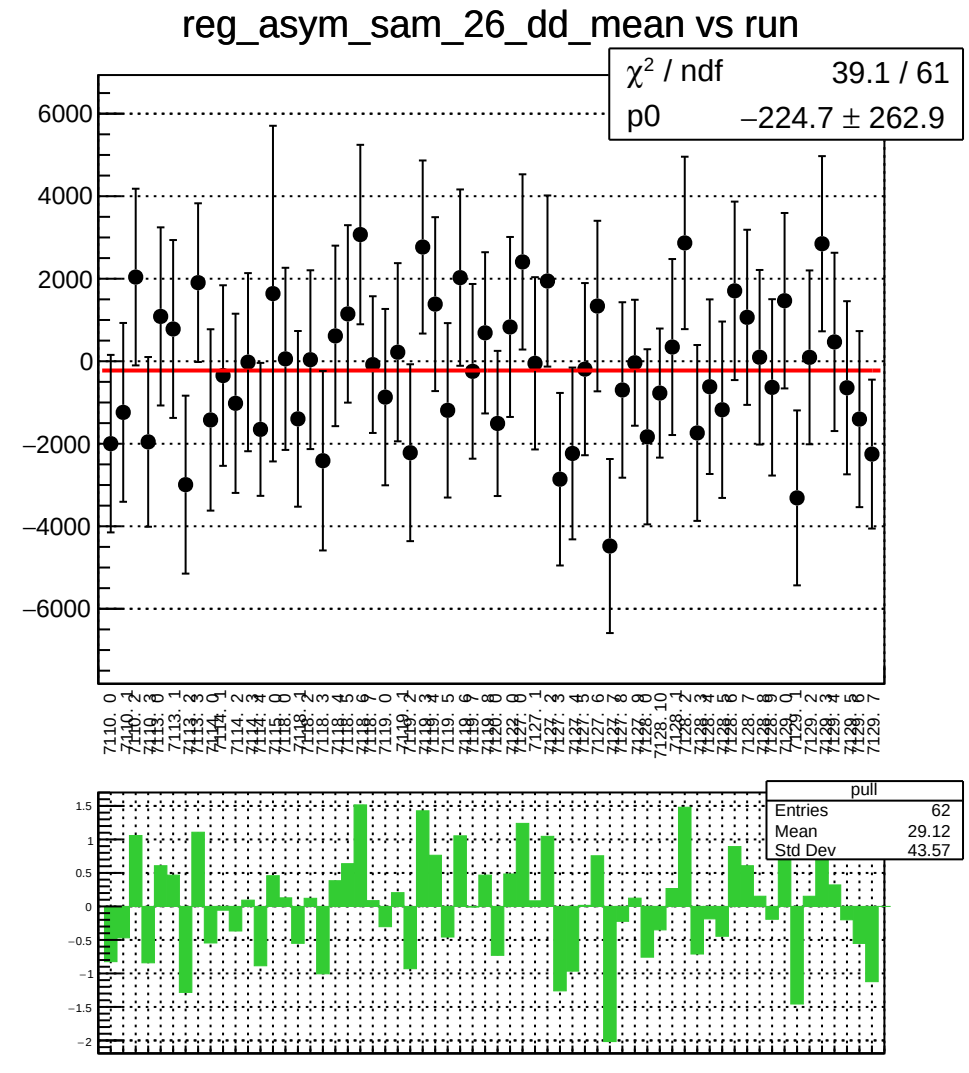

pull1D
Entries 62
Mean 0.02128
Std Dev 0.9162
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

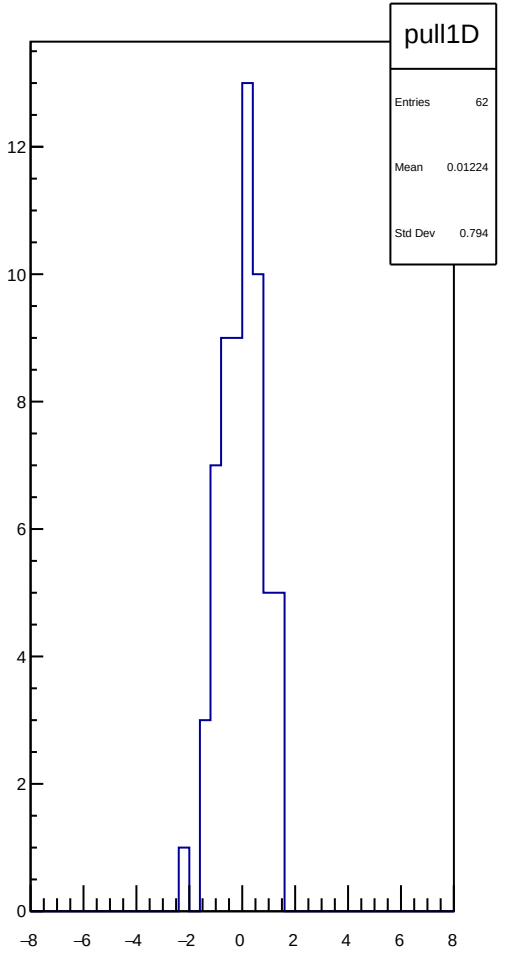

asym_sam_15_dd_correction_rms vs run
χ² / ndf 6459 / 61
p0 633.7 ± 0.5828
750
700
650
600
550

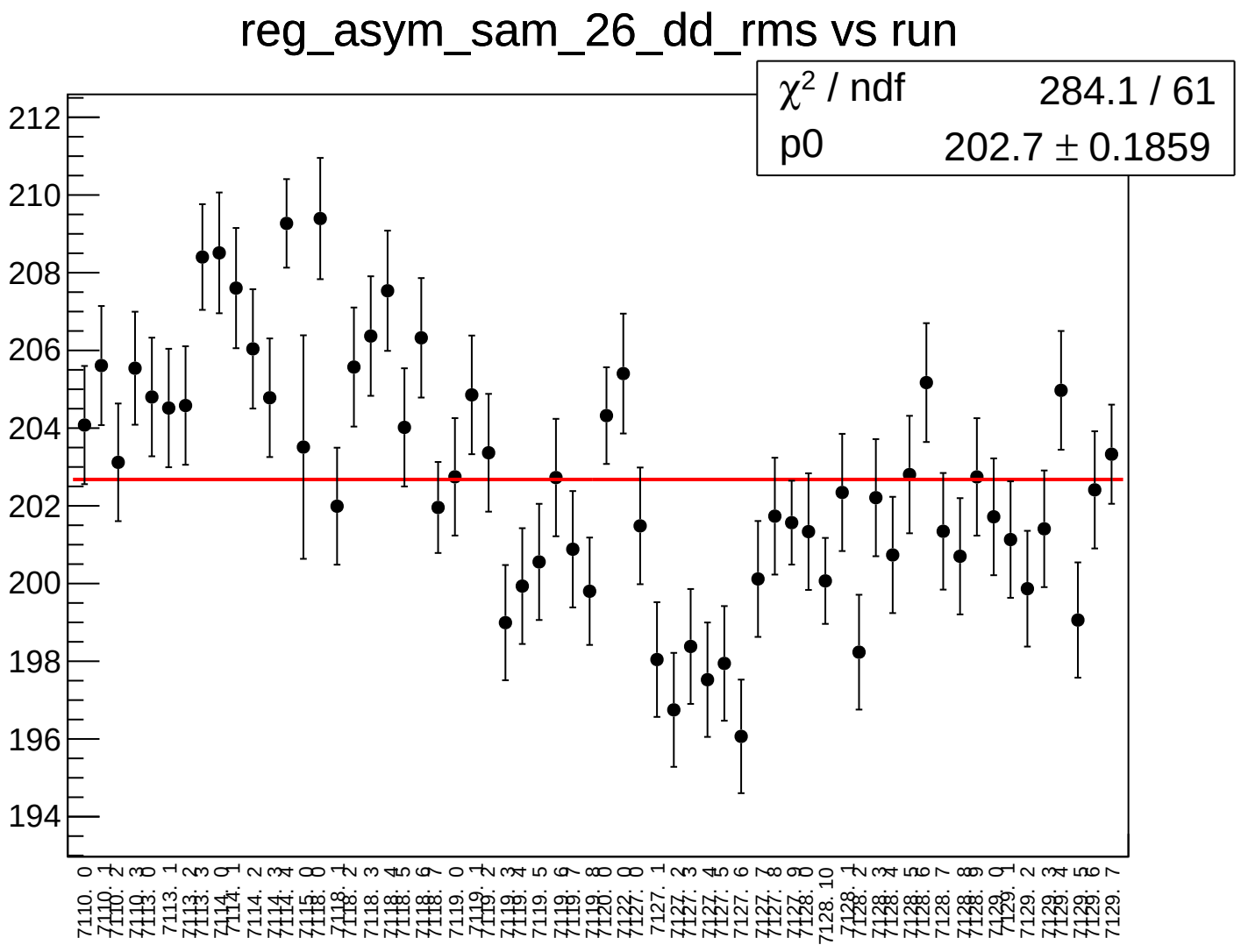

asym_sam_15_dd_mean vs run
χ² / ndf 49.56 / 61
p0 −844.5 ± 837.3
20000
10000
0
−10000
−20000
pull
Entries 62
Mean −13.64
Std Dev 66.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

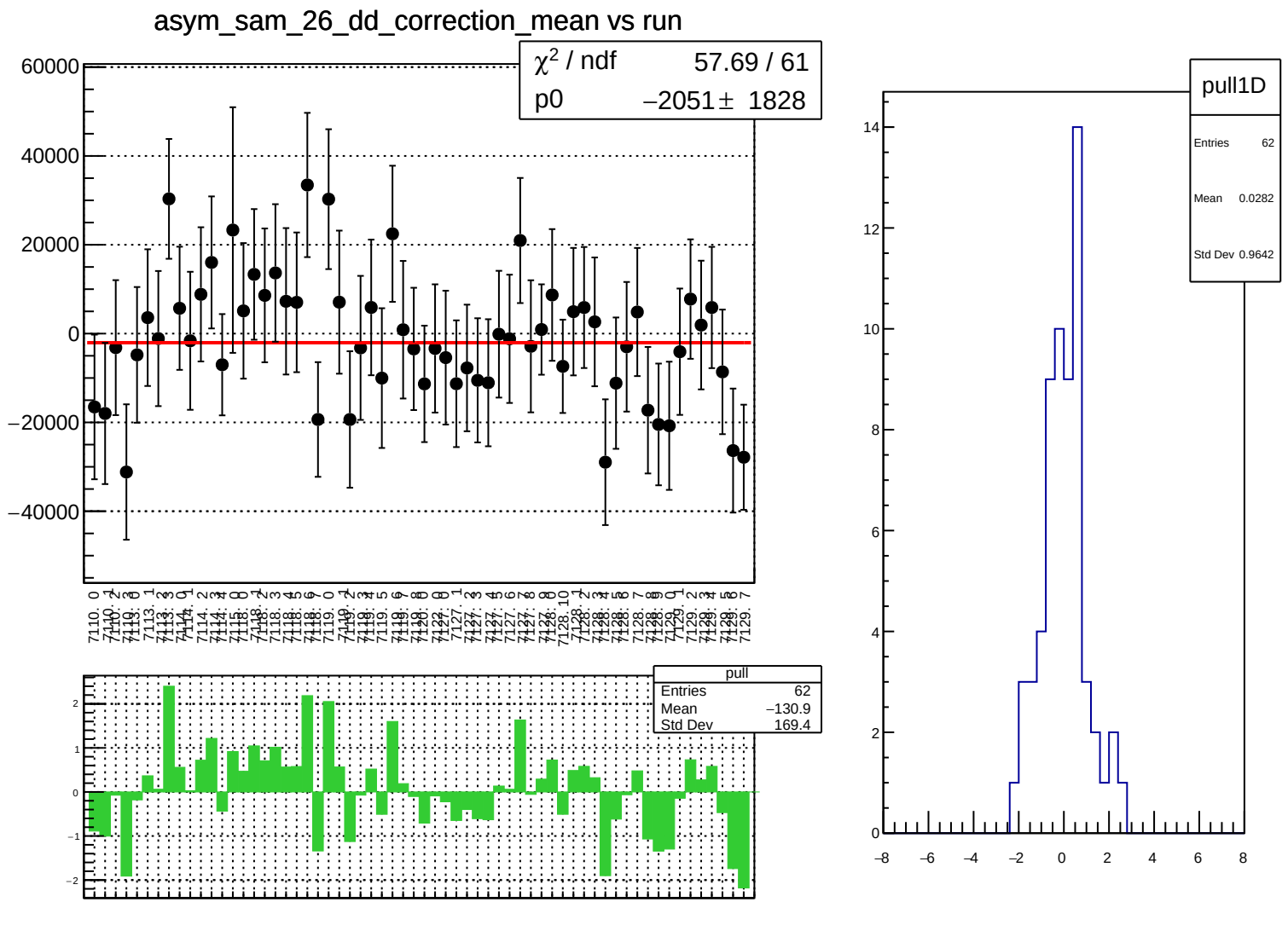

pull1D
Entries 62
Mean −0.01622
Std Dev 0.8939
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

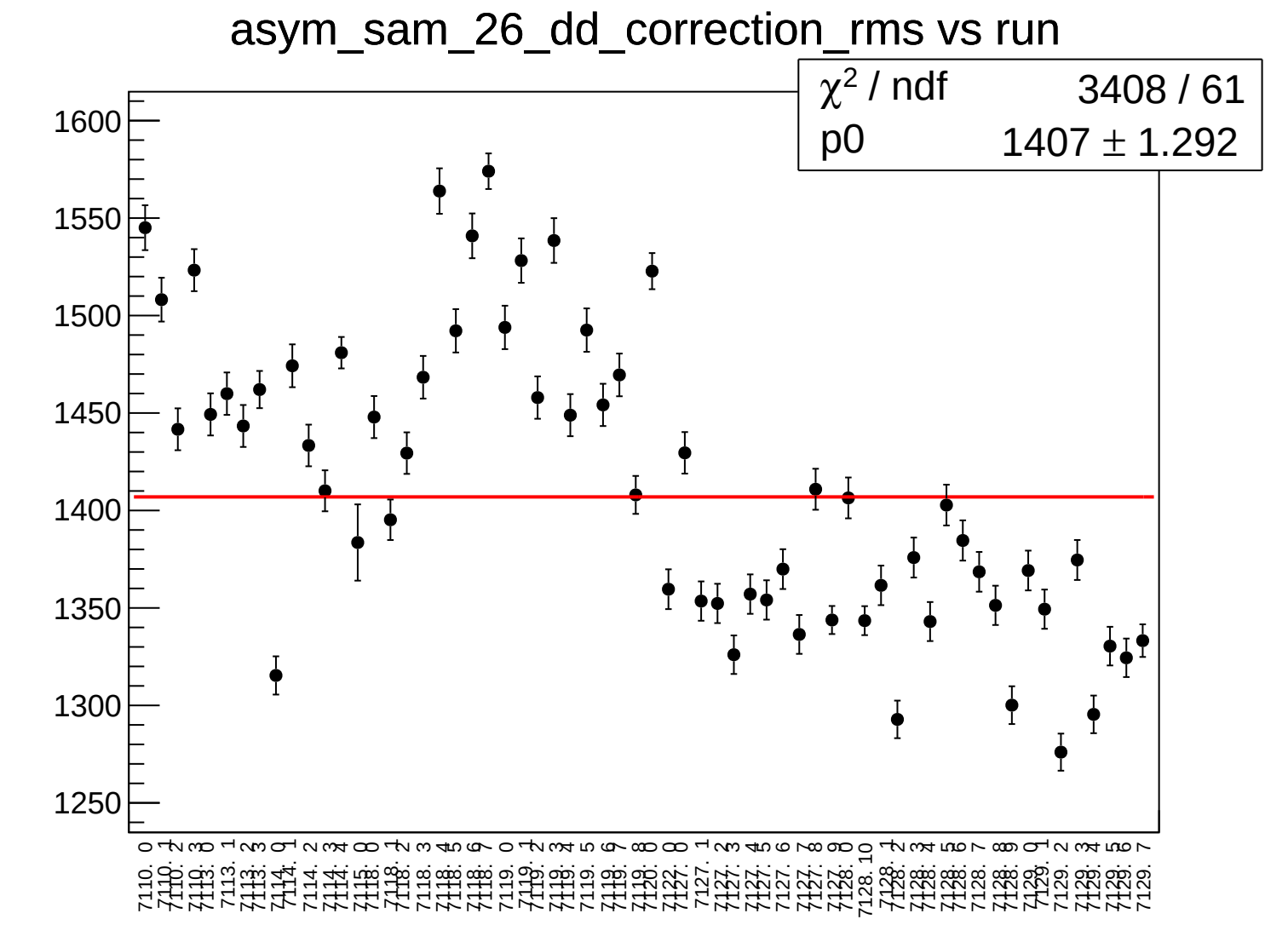

asym_sam_15_dd_rms vs run
χ² / ndf 6141 / 61
p0 643.8 ± 0.5921
750
700
650
600
550

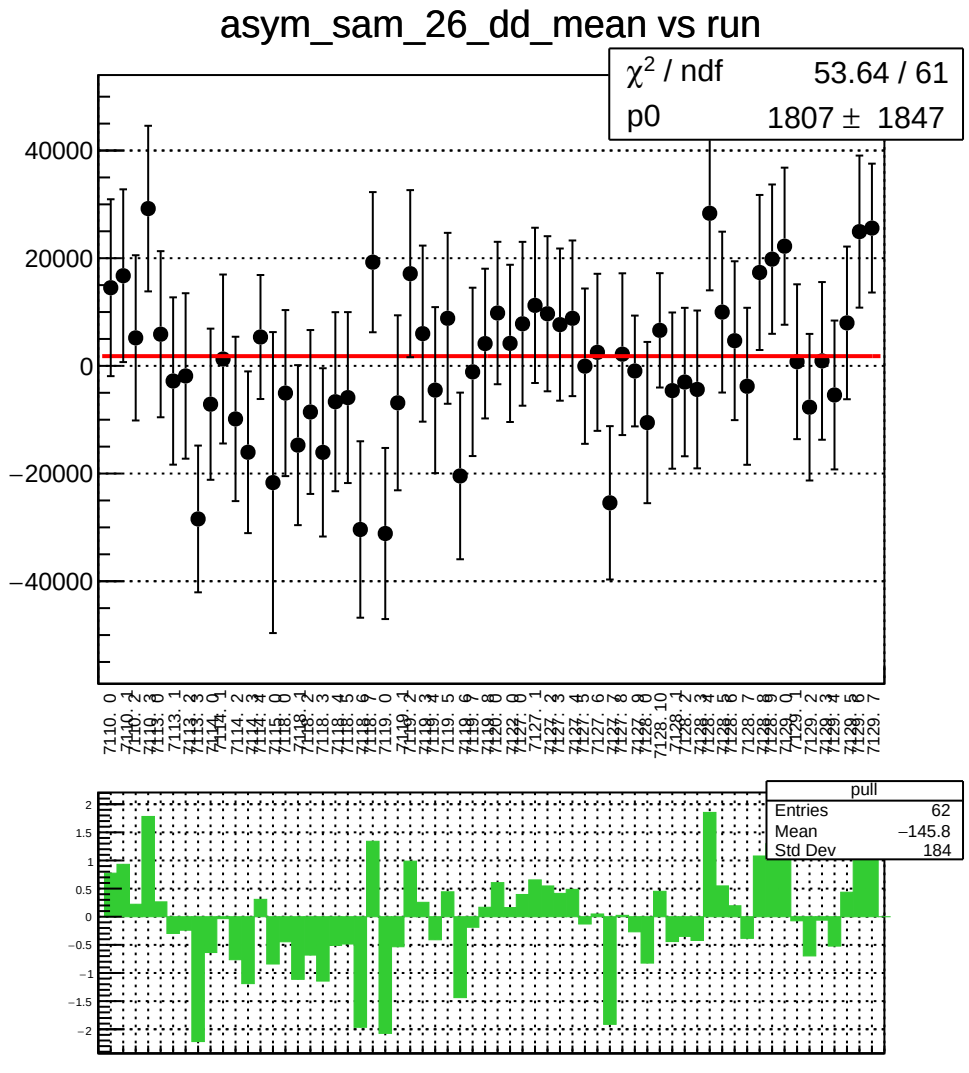

reg_asym_sam_26_dd_mean vs run
χ² / ndf 39.1 / 61
p0 −224.7 ± 262.9
pull
Entries 62
Mean 29.12
Std Dev 43.57

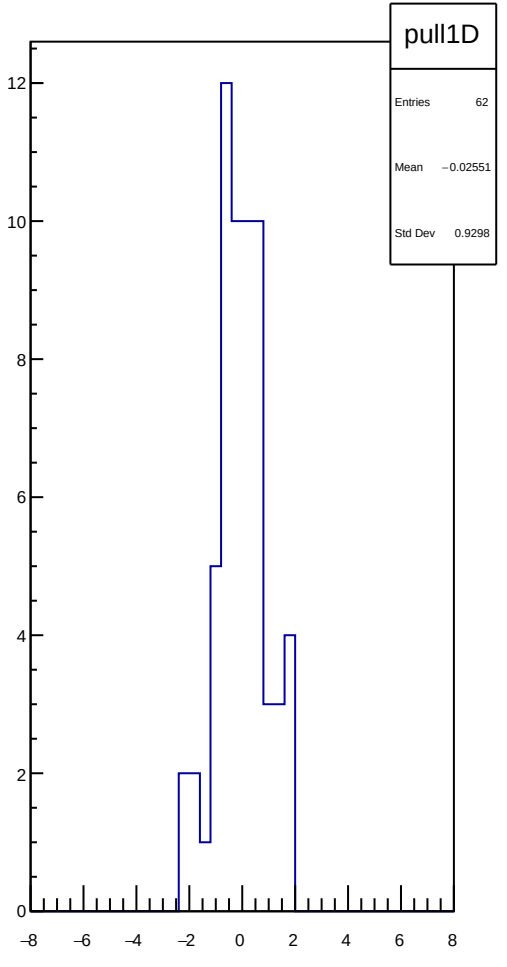

pull1D
Entries 62
Mean 0.01224
Std Dev 0.794

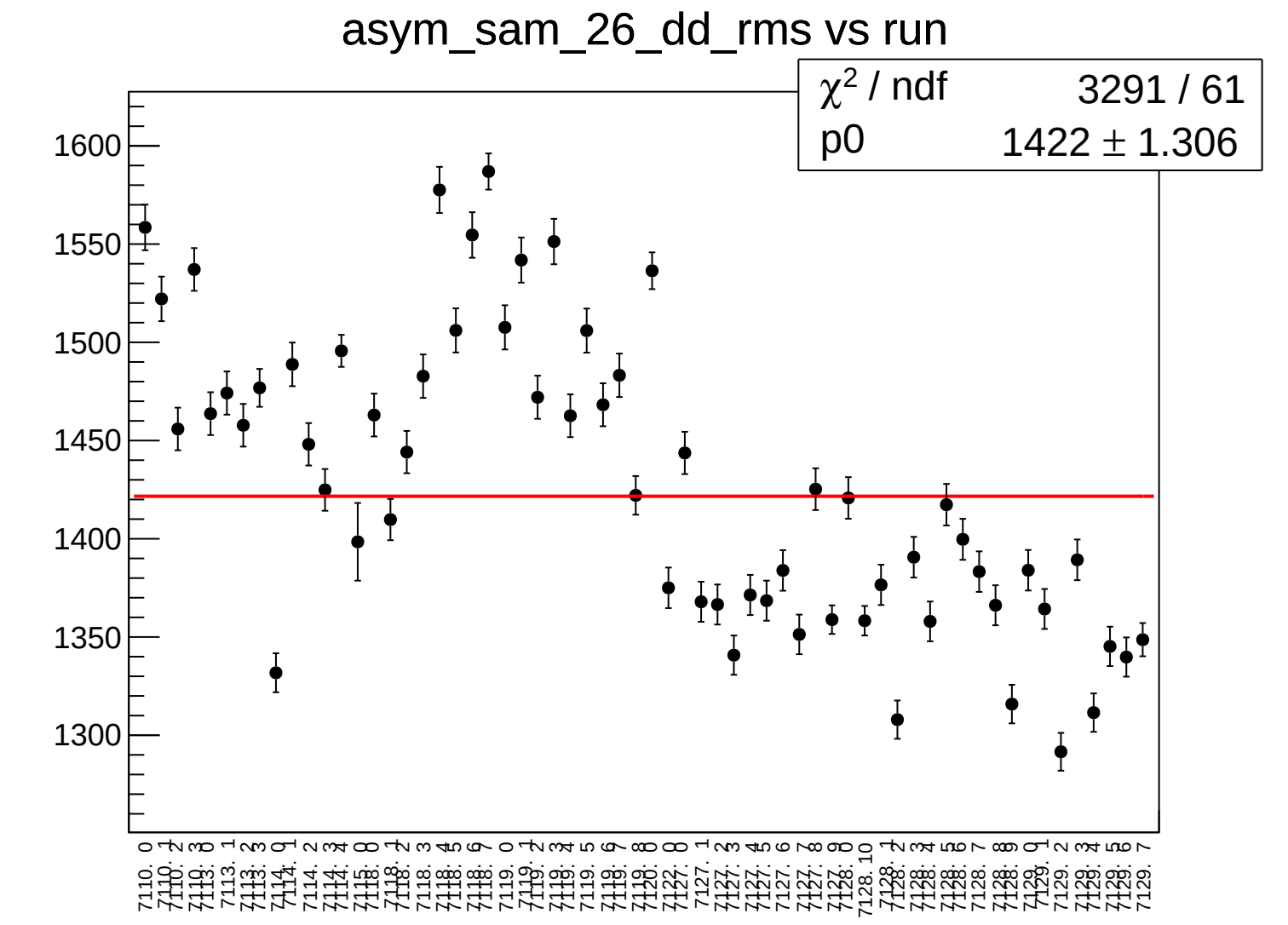

reg_asym_sam_26_dd_rms vs run
χ² / ndf 284.1 / 61
p0 202.7 ± 0.1859
212
210
208
206
204
202
200
198
196
194
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

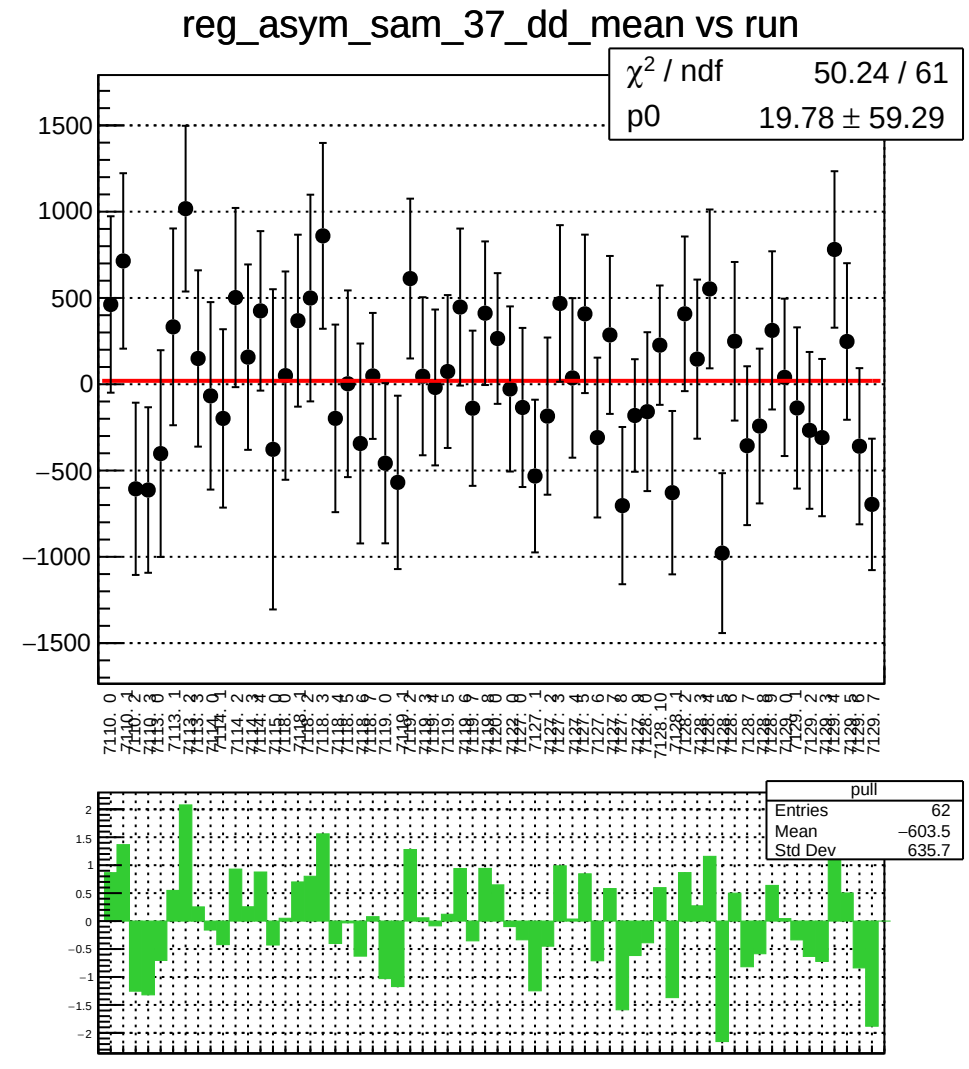

asym_sam_26_dd_correction_mean vs run
χ² / ndf 57.69 / 61
p0 −2051 ± 1828
pull
Entries 62
Mean −130.9
Std Dev 169.4
pull1D
Entries 62
Mean 0.0282
Std Dev 0.9642

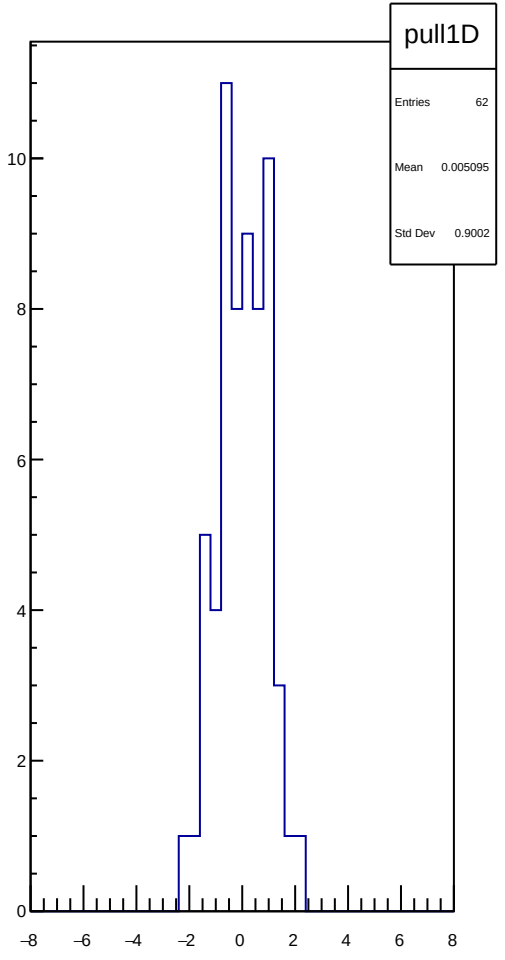

asym_sam_26_dd_correction_rms vs run
χ² / ndf 3408 / 61
p0 1407 ± 1.292
1600
1550
1500
1450
1400
1350
1300
1250

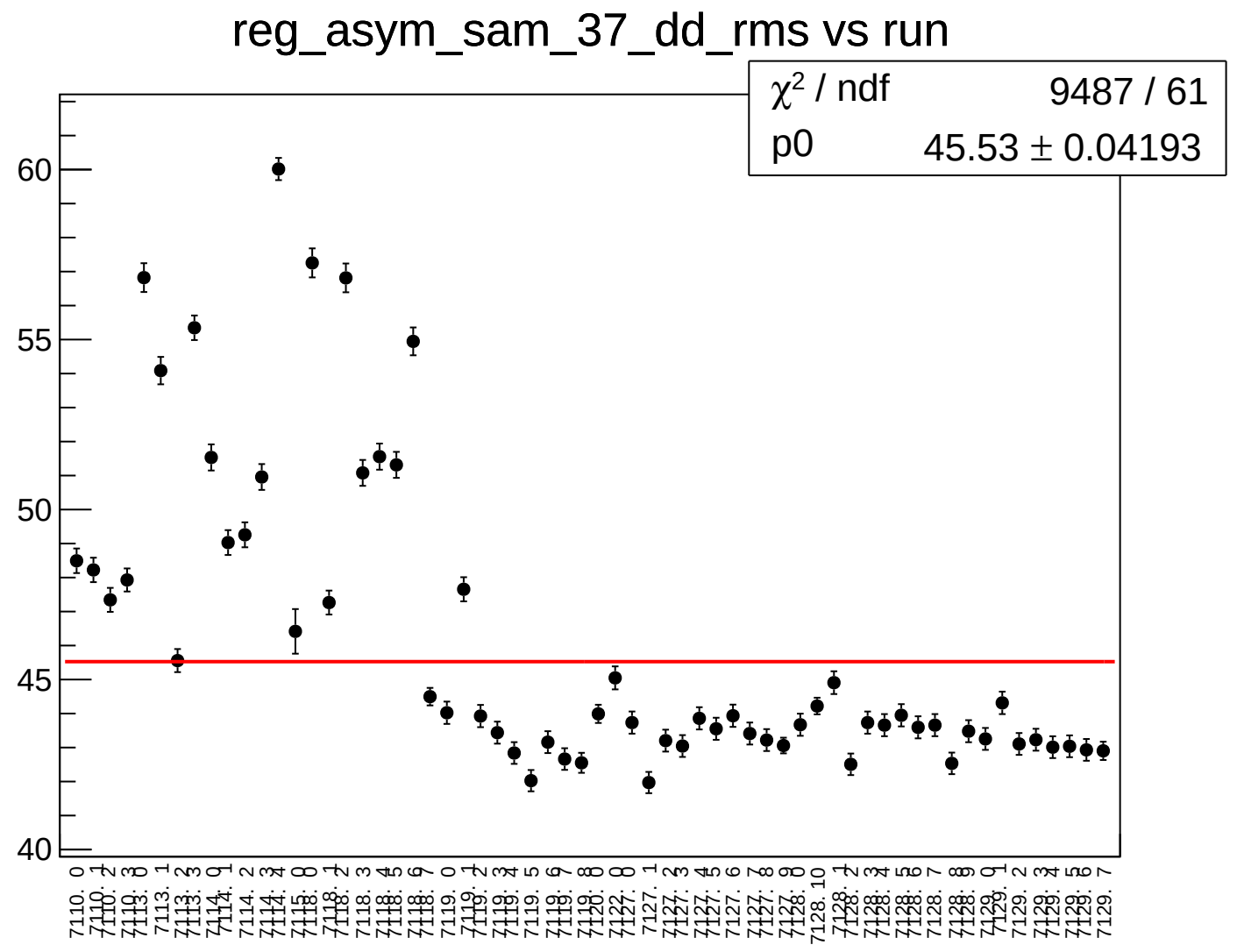

asym_sam_26_dd_mean vs run
χ² / ndf 53.64 / 61
p0 1807 ± 1847
40000
20000
0
−20000
−40000
pull
Entries 62
Mean −145.8
Std Dev 184
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

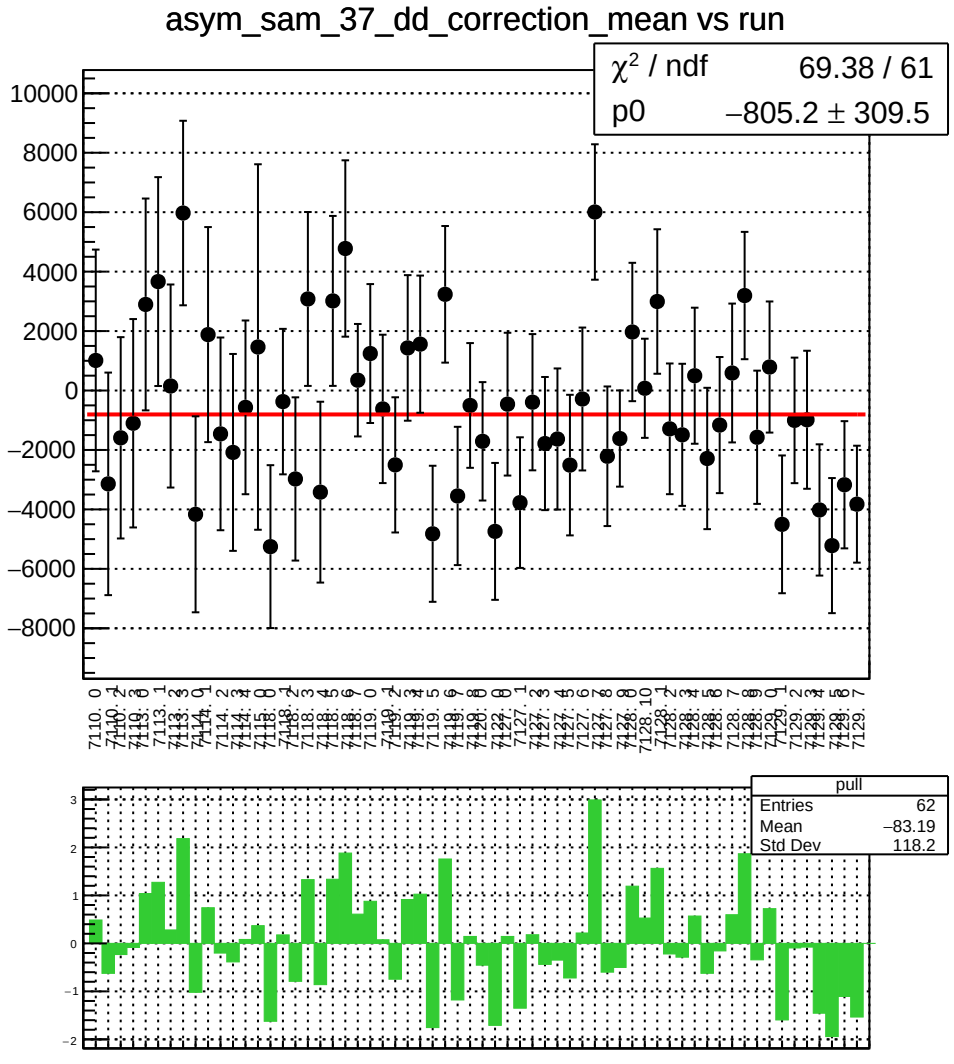

pull1D
Entries 62
Mean −0.02551
Std Dev 0.9298
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

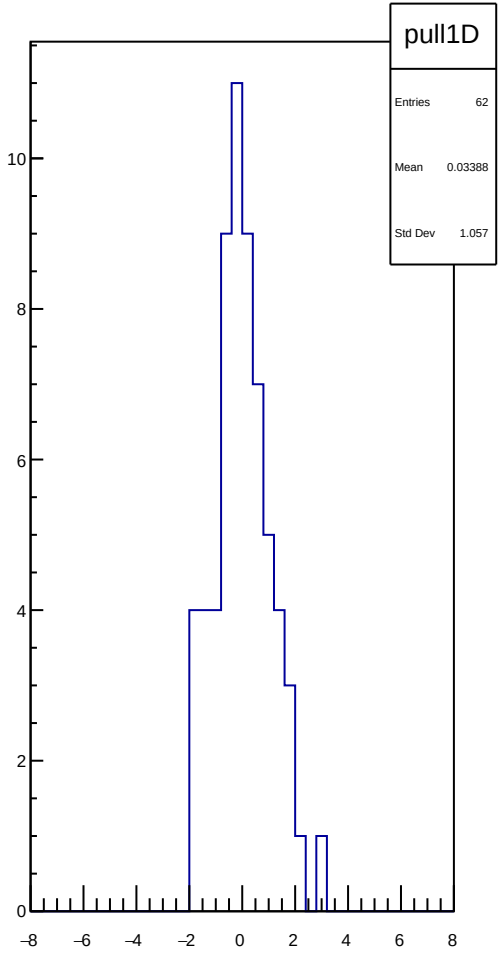

asym_sam_26_dd_rms vs run
χ² / ndf 3291 / 61
p0 1422 ± 1.306
1600
1550
1500
1450
1400
1350
1300

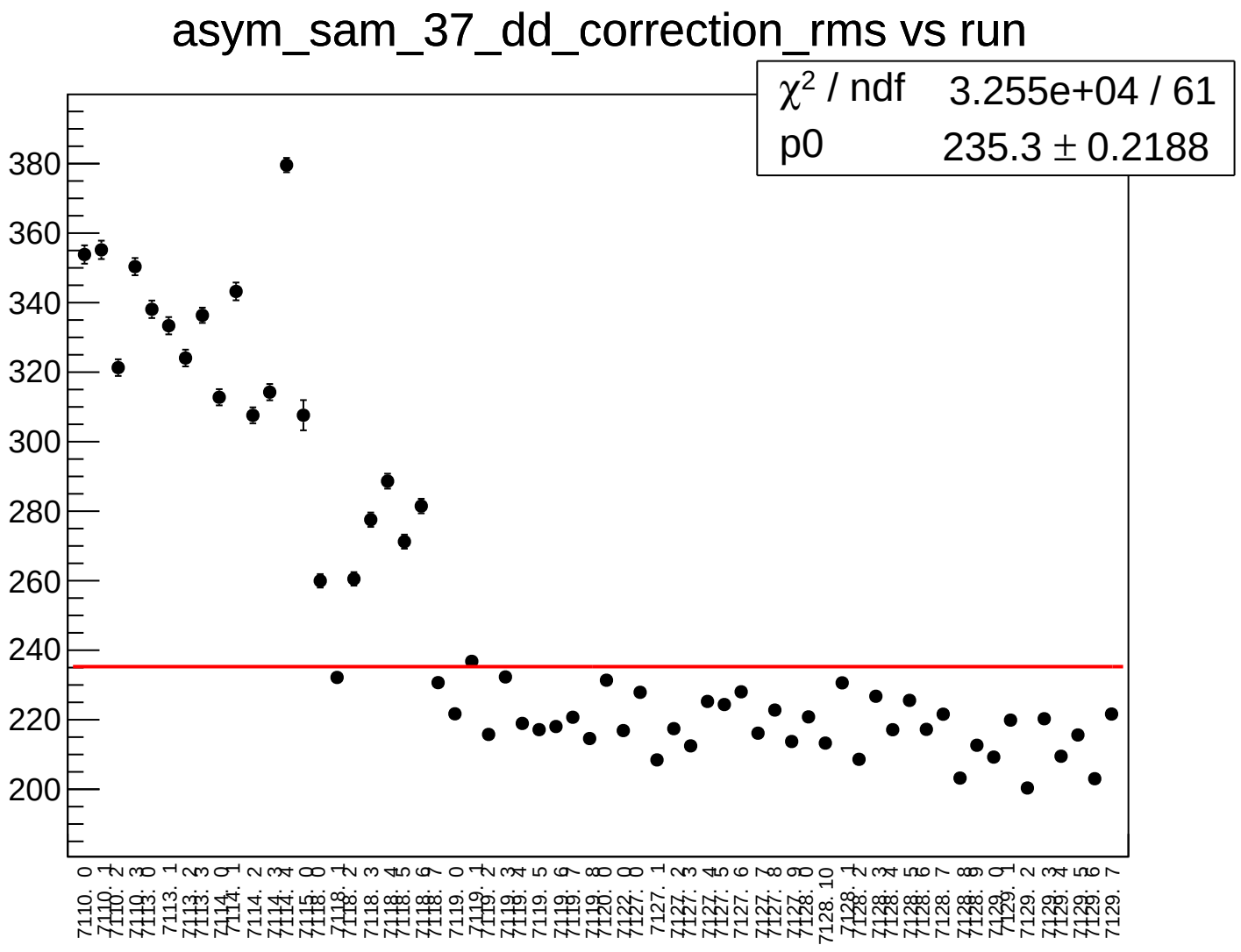

reg_asym_sam_37_dd_mean vs run
χ² / ndf 50.24 / 61
p0 19.78 ± 59.29
pull
Entries 62
Mean −603.5
Std Dev 635.7

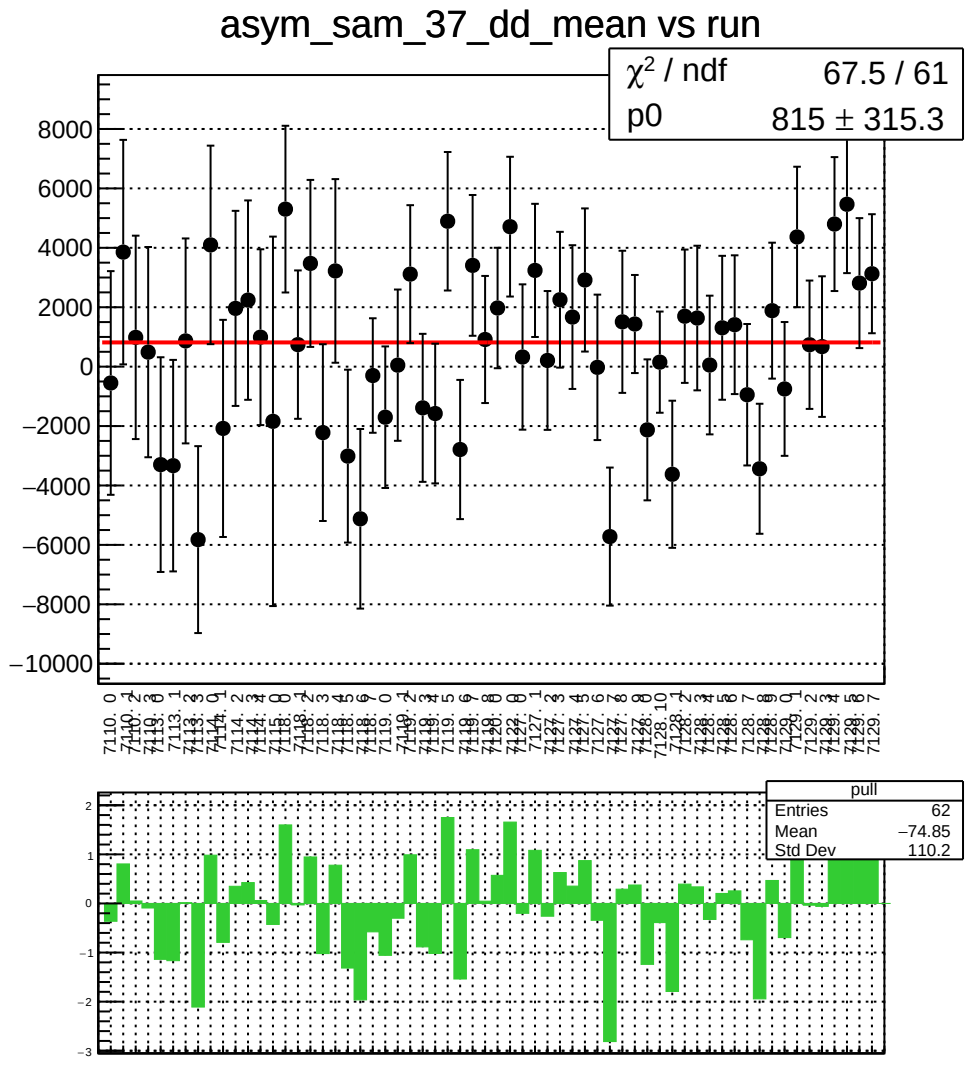

pull1D
Entries 62
Mean 0.005095
Std Dev 0.9002

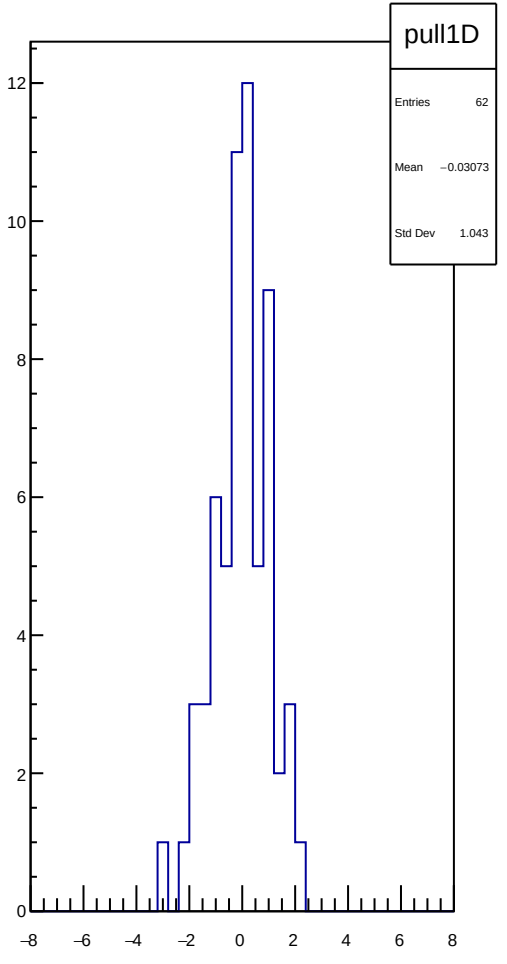

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 9487 / 61
p0 45.53 ± 0.04193
60
55
50
45
40
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

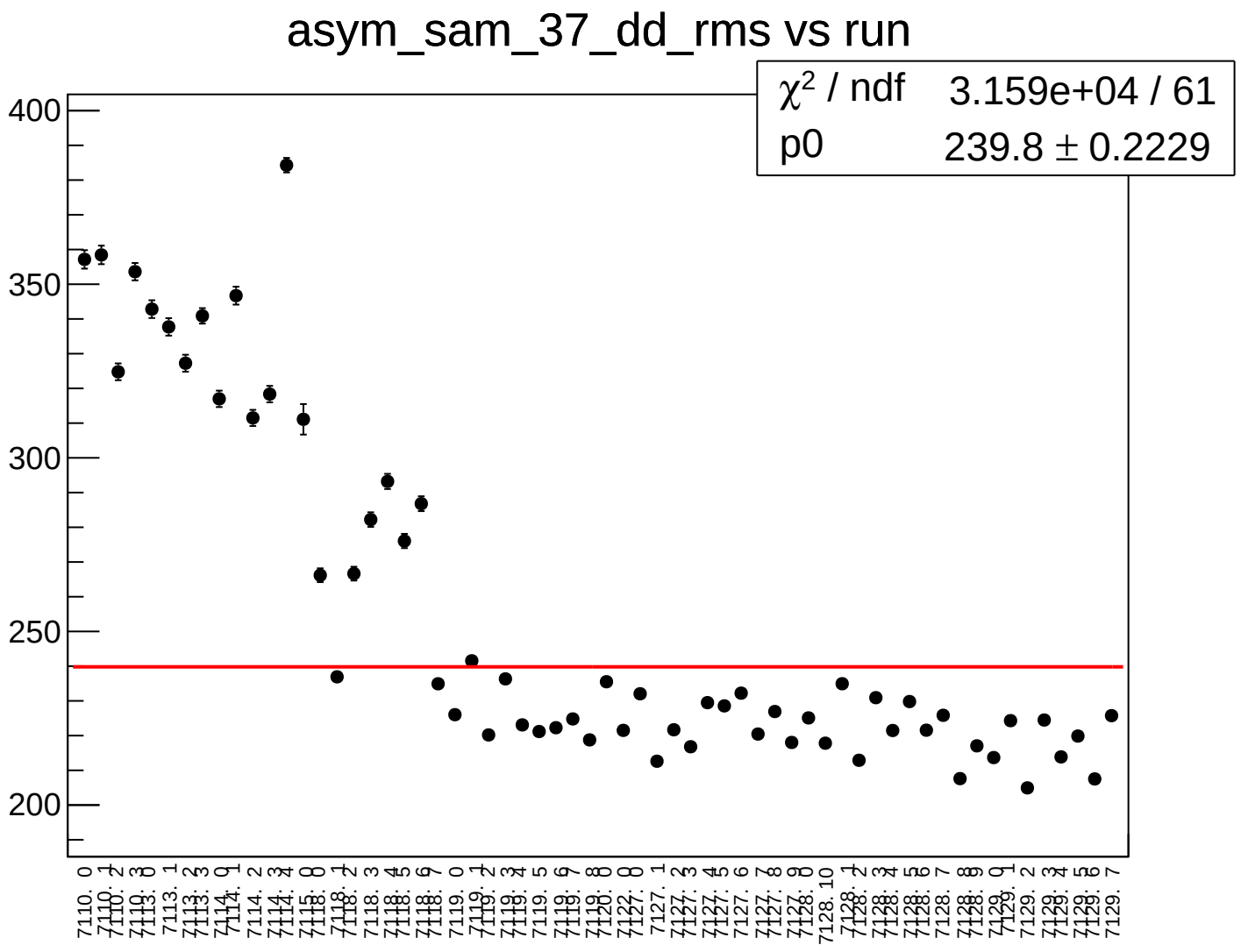

asym_sam_37_dd_correction_mean vs run
χ² / ndf 69.38 / 61
p0 −805.2 ± 309.5
pull
Entries 62
Mean −83.19
Std Dev 118.2

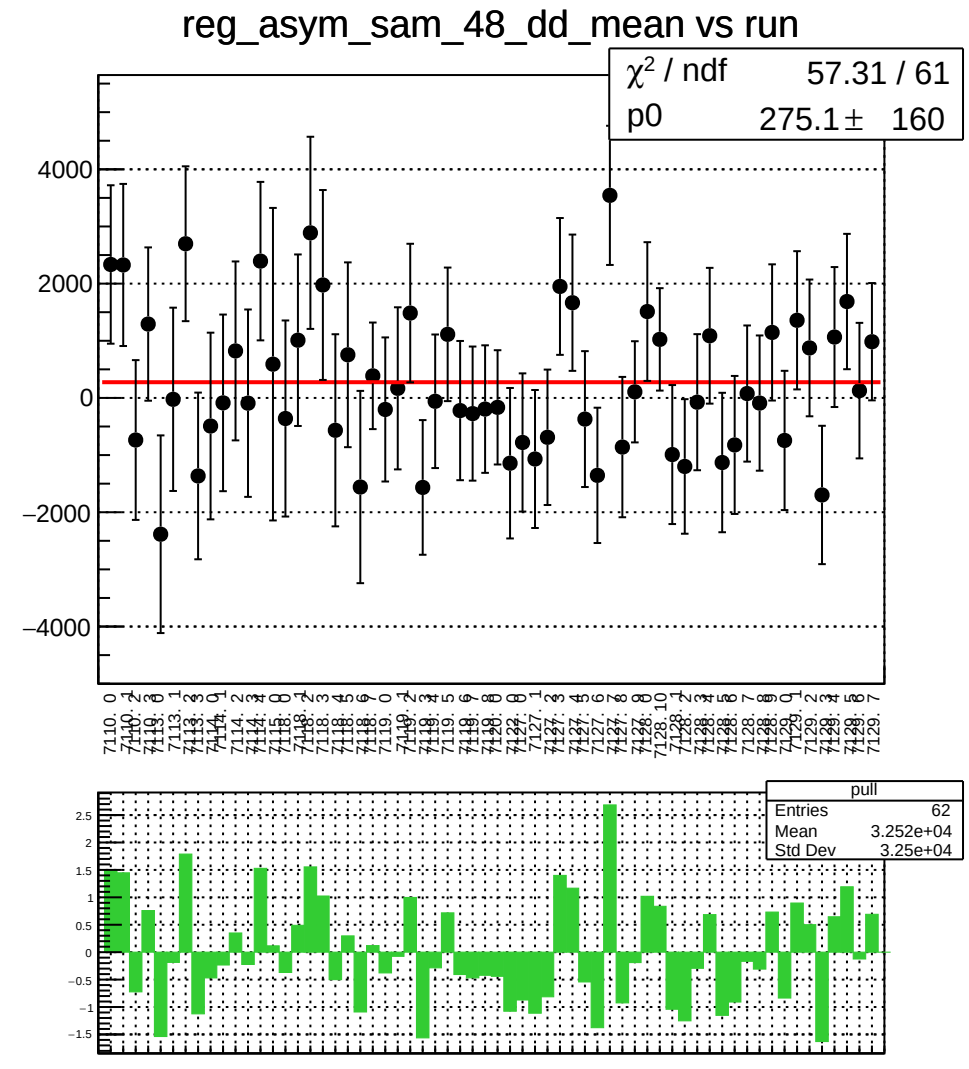

pull1D
Entries 62
Mean 0.03388
Std Dev 1.057

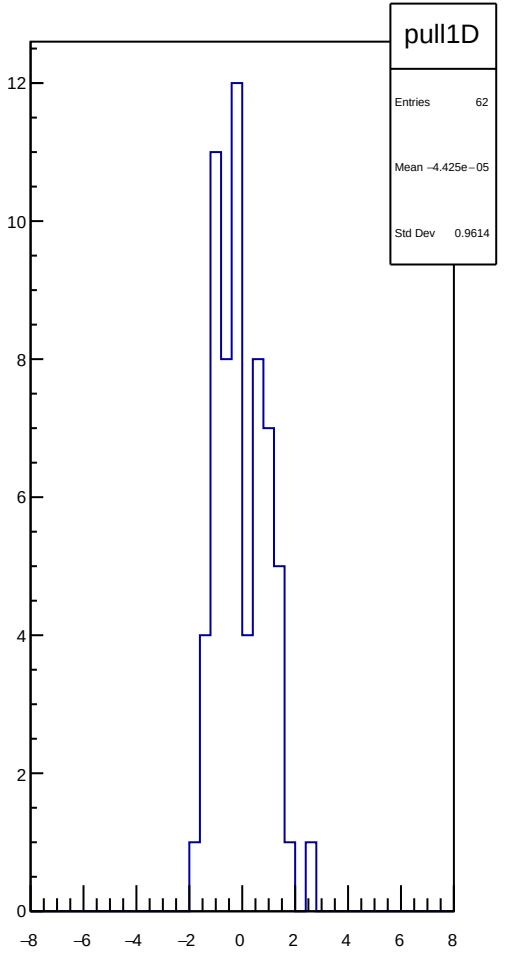

asym_sam_37_dd_correction_rms vs run
χ² / ndf 3.255e+04 / 61
p0 235.3 ± 0.2188
380
360
340
320
300
280
260
240
220
200

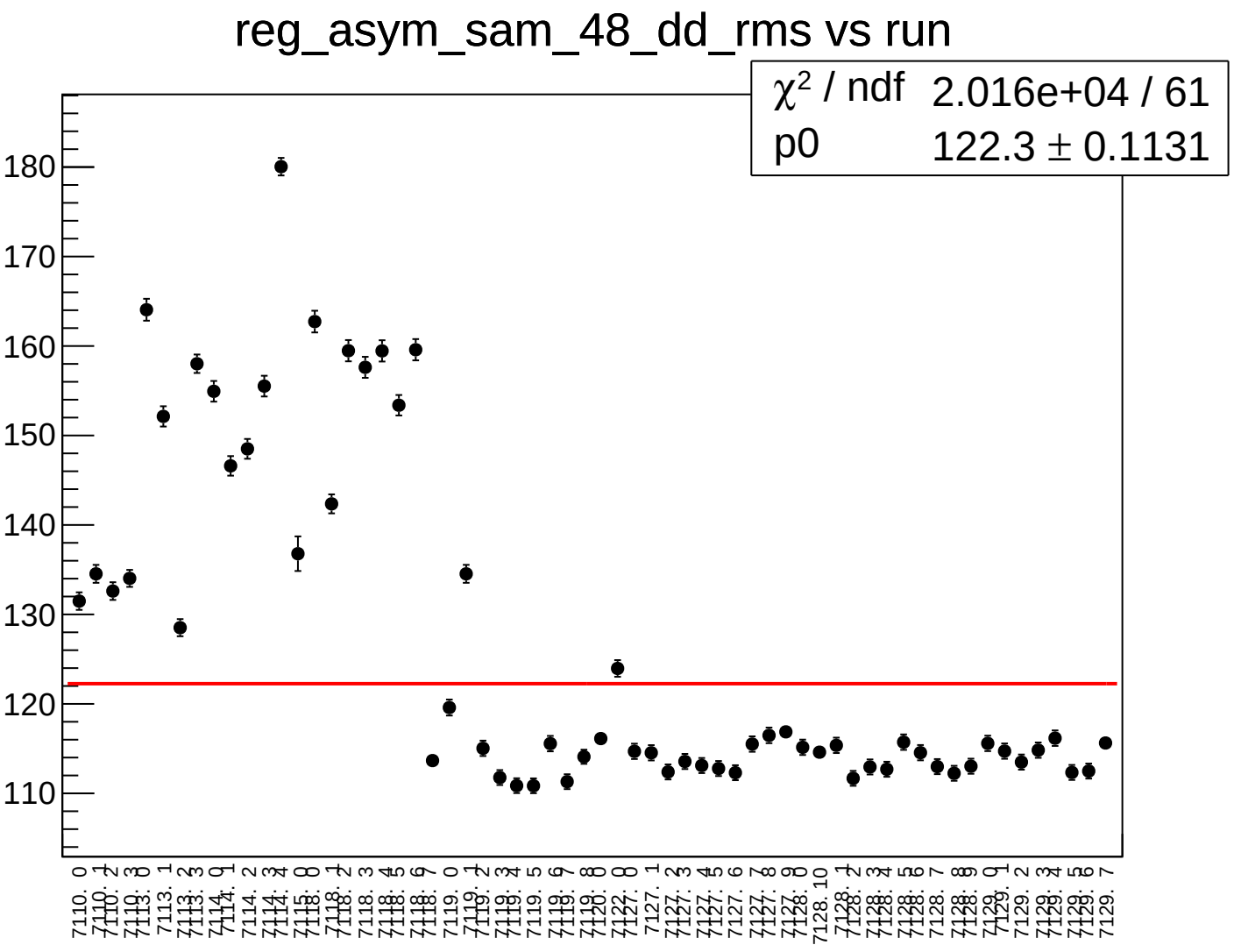

asym_sam_37_dd_mean vs run
χ² / ndf 67.5 / 61
p0 815 ± 315.3
pull
Entries 62
Mean −74.85
Std Dev 110.2

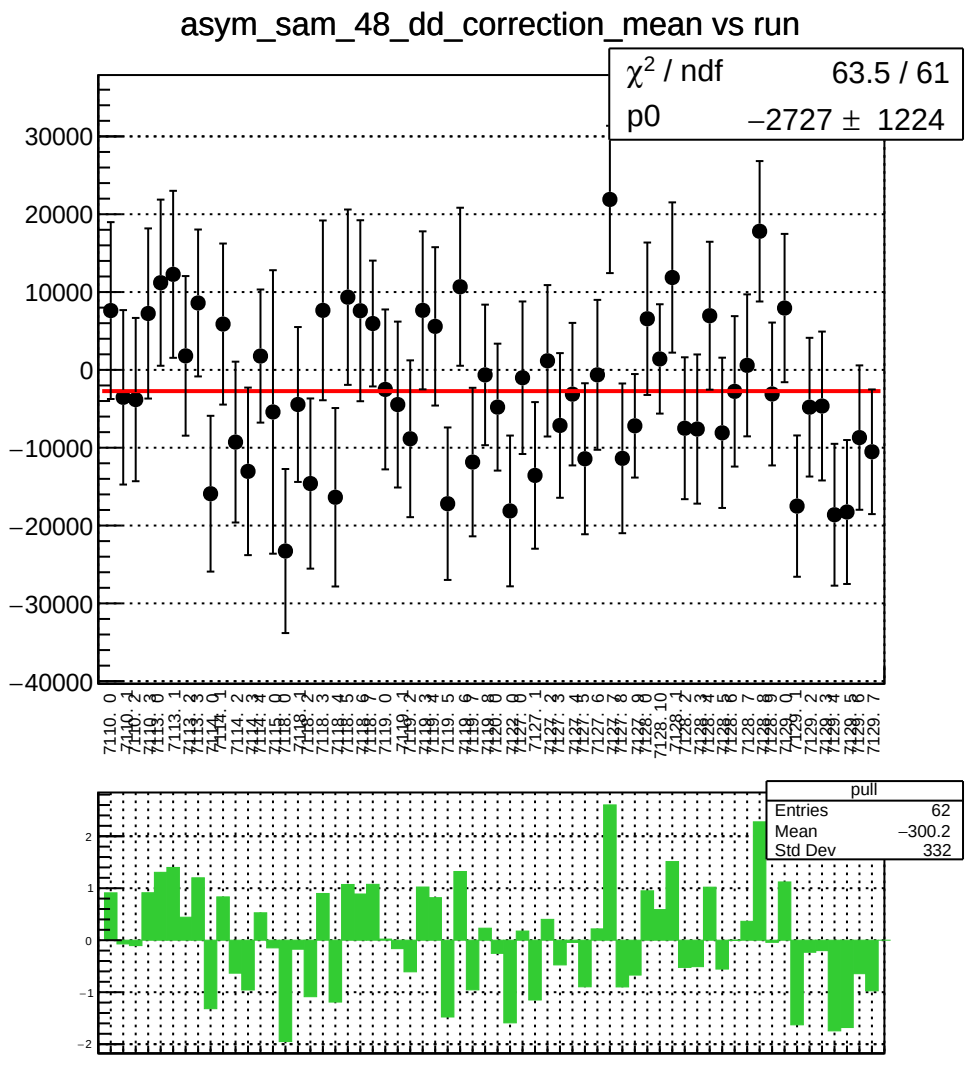

pull1D
Entries 62
Mean −0.03073
Std Dev 1.043

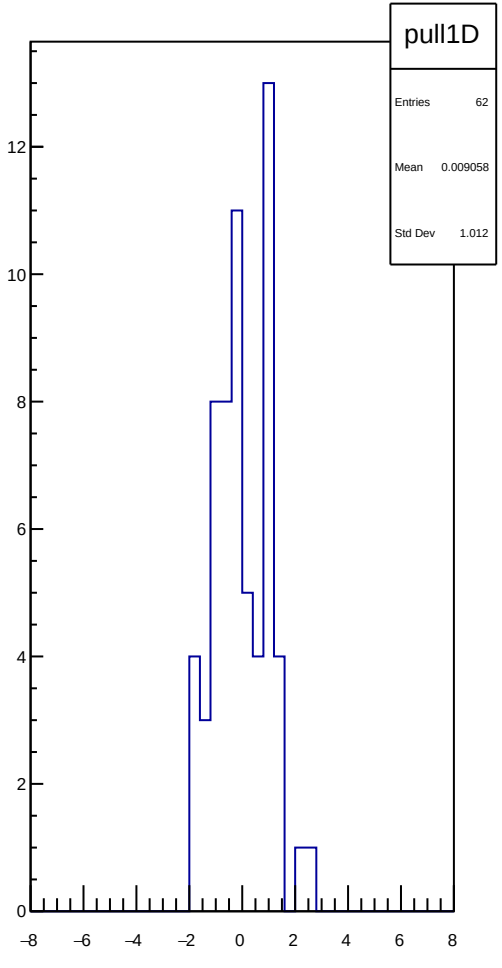

asym_sam_37_dd_rms vs run
χ² / ndf 3.159e+04 / 61
p0 239.8 ± 0.2229
400
350
300
250
200
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

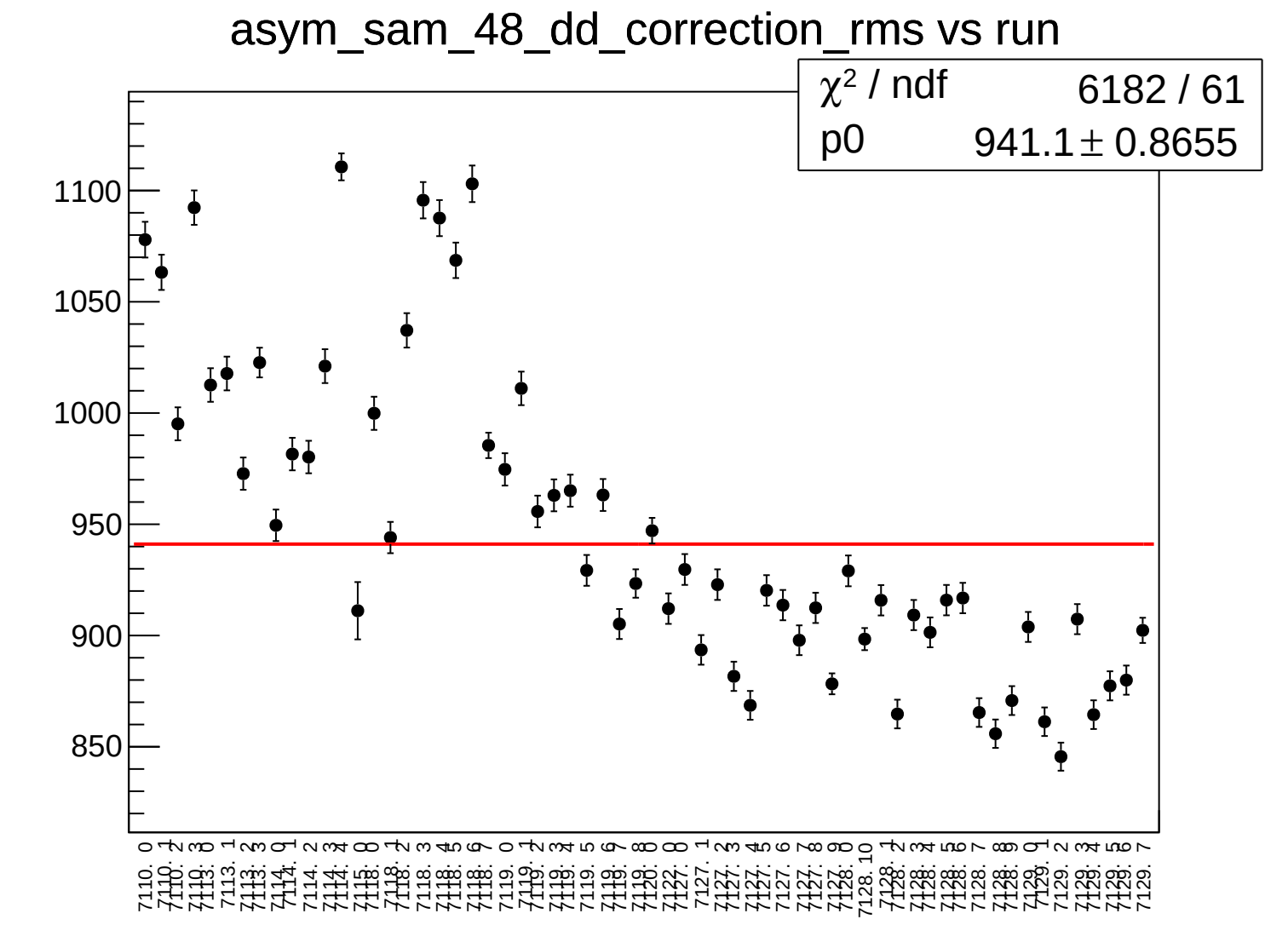

reg_asym_sam_48_dd_mean vs run
χ² / ndf 57.31 / 61
p0 275.1 ± 160
4000
2000
0
−2000
−4000
pull
Entries 62
Mean 3.252e+04
Std Dev 3.25e+04
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

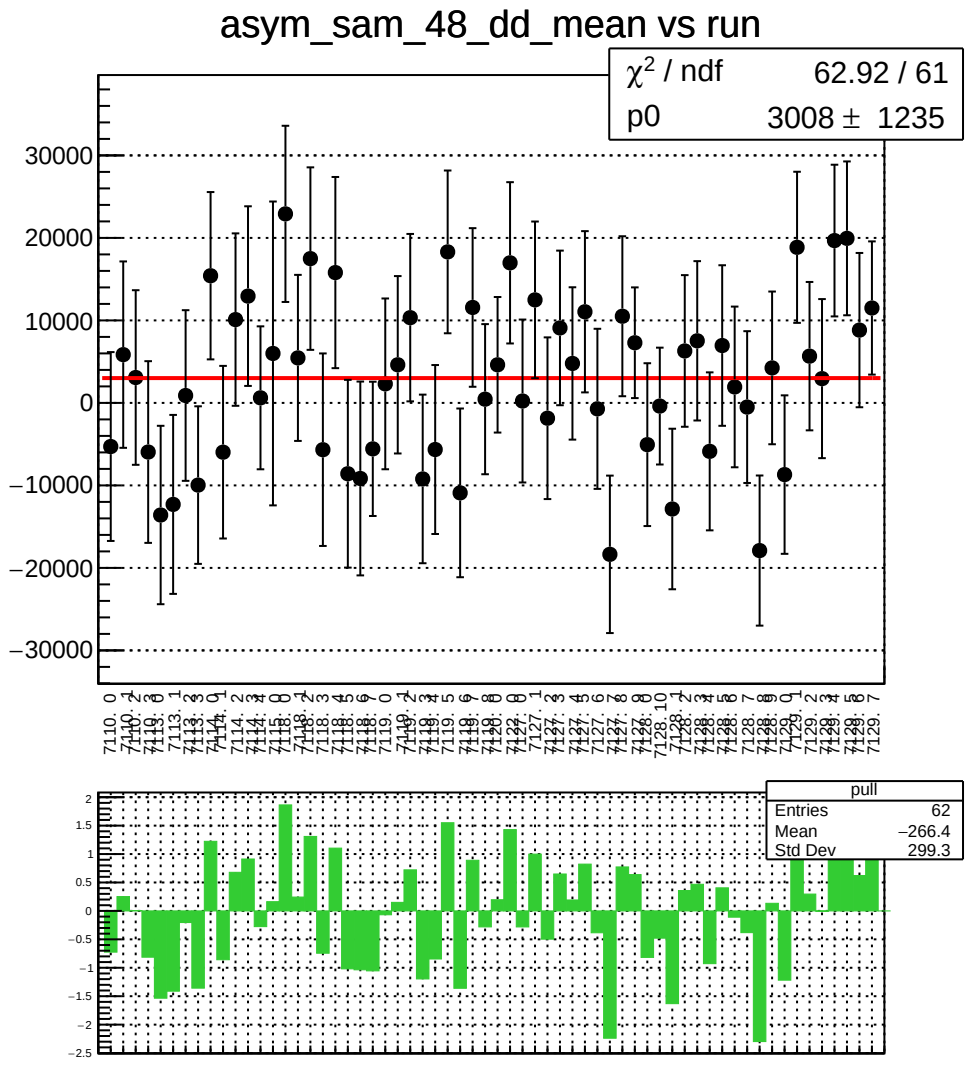

pull1D
Entries 62
Mean −4.425e−05
Std Dev 0.9614
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

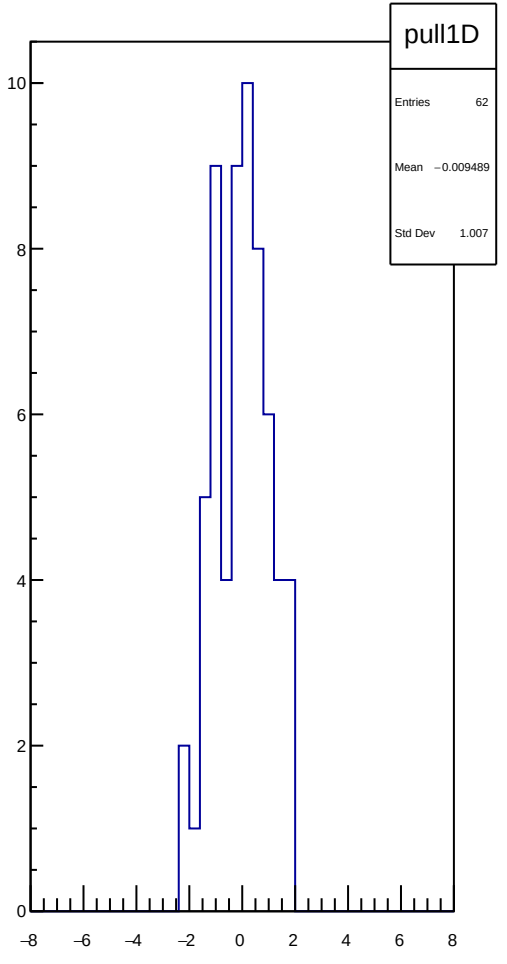

reg_asym_sam_48_dd_rms vs run
χ² / ndf 2.016e+04 / 61
p0 122.3 ± 0.1131
180
170
160
150
140
130
120
110

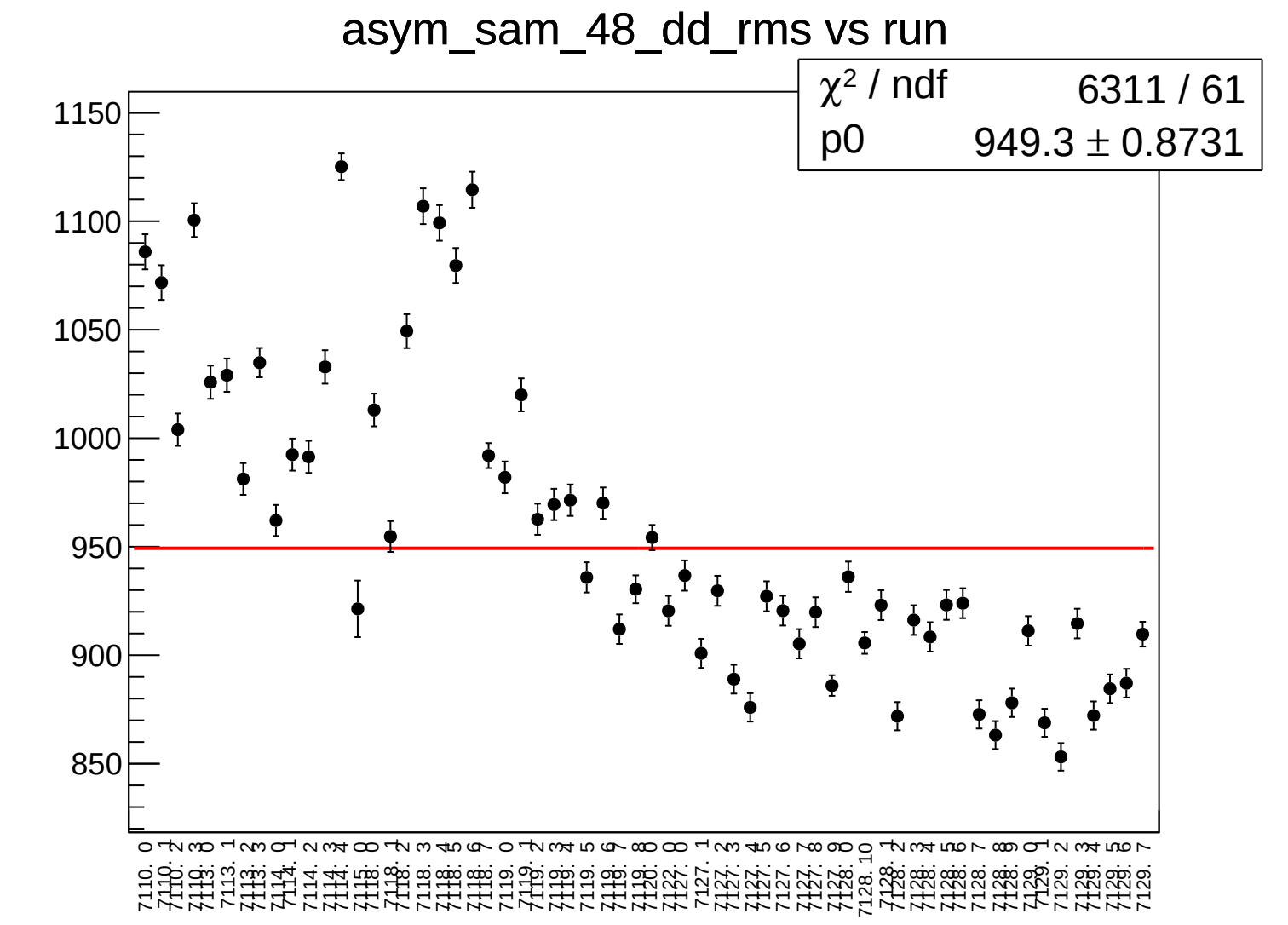

asym_sam_48_dd_correction_mean vs run
χ² / ndf 63.5 / 61
p0 −2727 ± 1224
pull
Entries 62
Mean −300.2
Std Dev 332

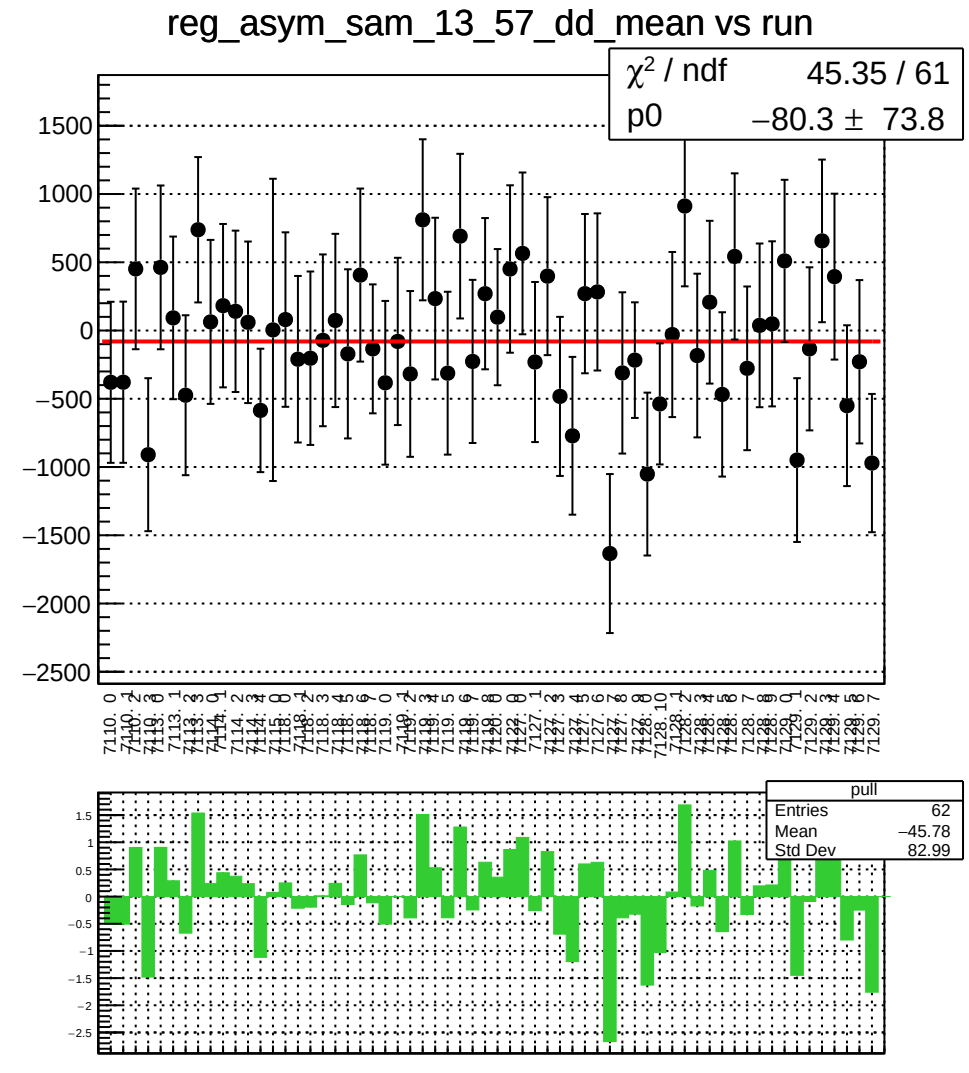

pull1D
Entries 62
Mean 0.009058
Std Dev 1.012

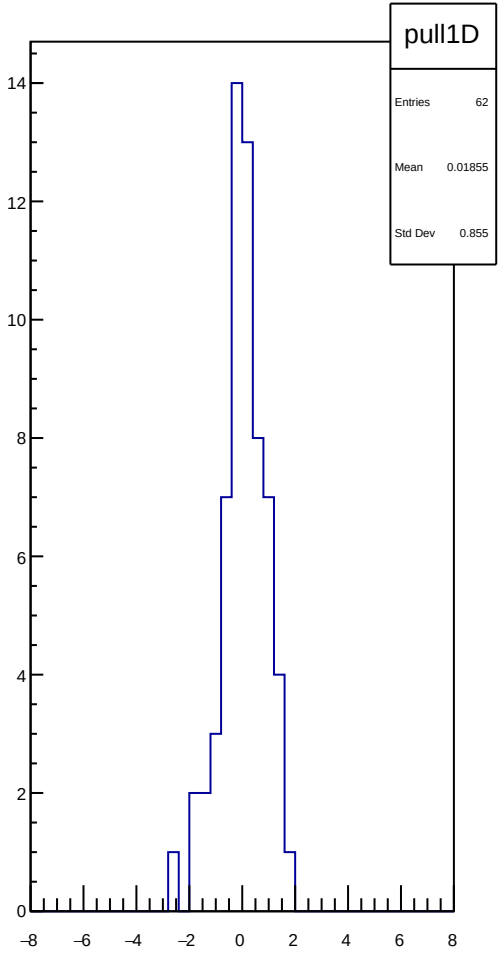

asym_sam_48_dd_correction_rms vs run
χ² / ndf 6182 / 61
p0 941.1 ± 0.8655
1100
1050
1000
950
900
850
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

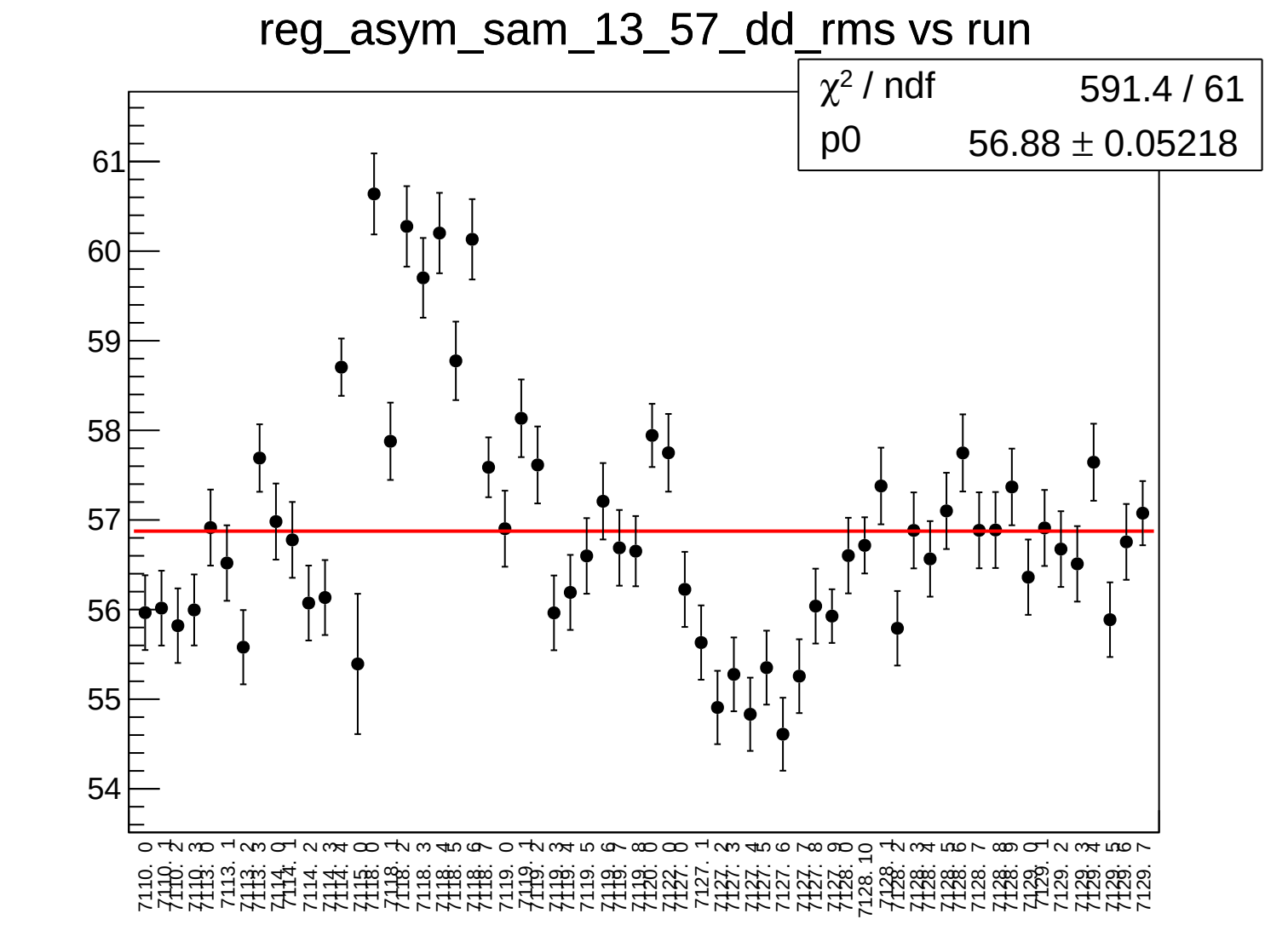

asym_sam_48_dd_mean vs run
χ² / ndf 62.92 / 61
p0 3008 ± 1235
pull
Entries 62
Mean −266.4
Std Dev 299.3

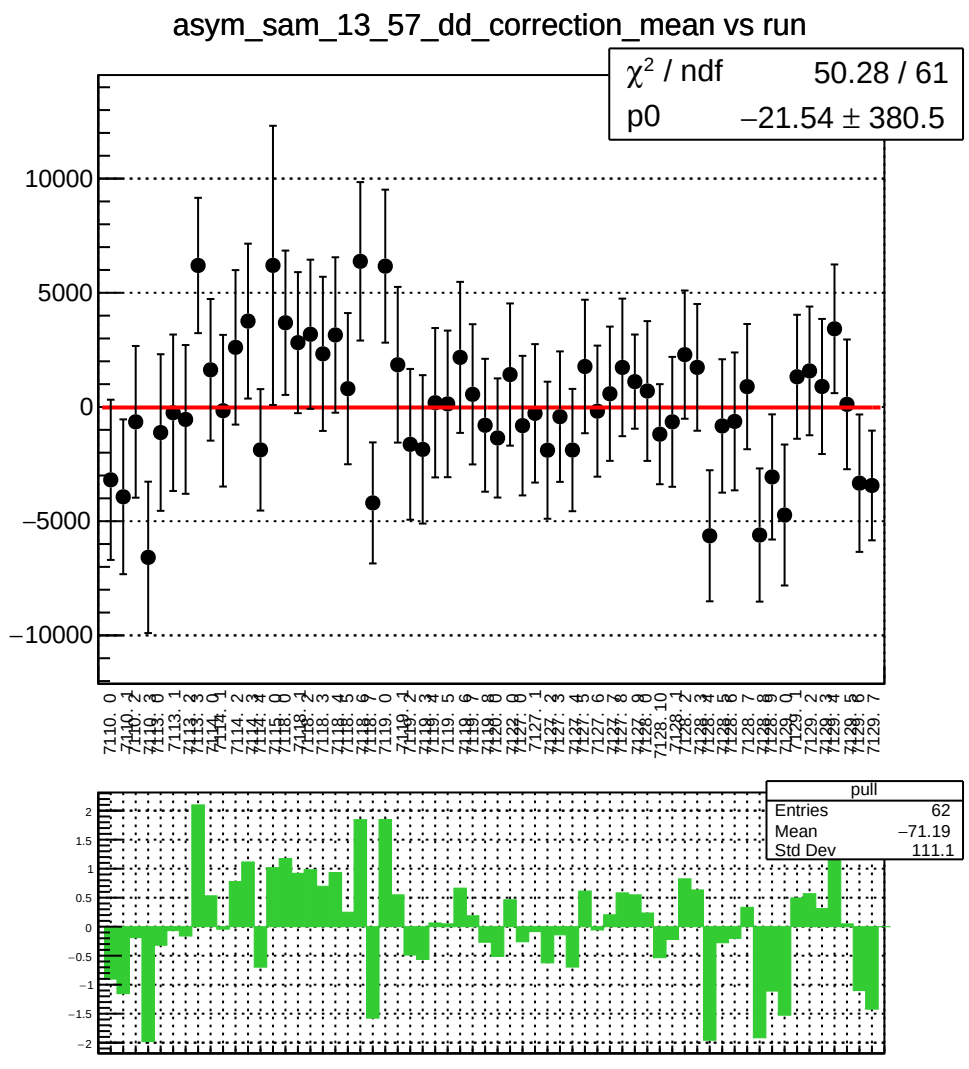

pull1D
Entries 62
Mean −0.009489
Std Dev 1.007

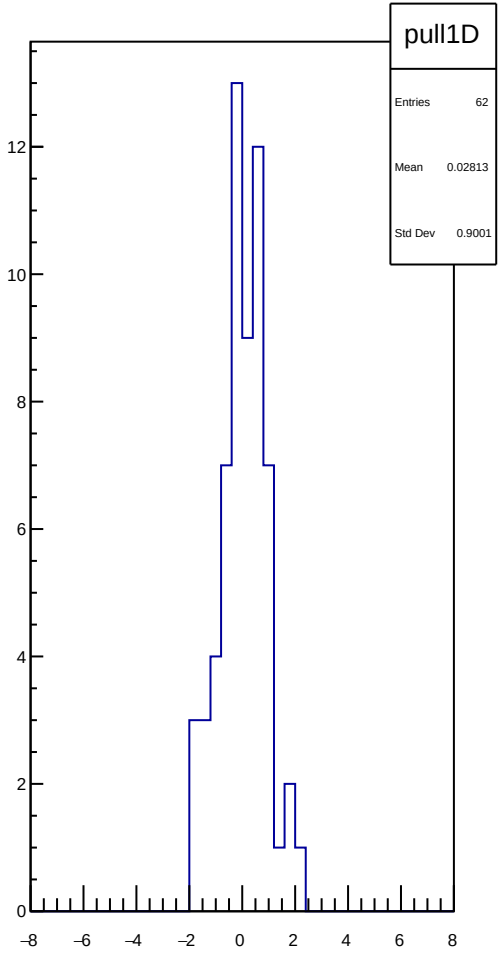

asym_sam_48_dd_rms vs run
χ² / ndf 6311 / 61
p0 949.3 ± 0.8731
1150
1100
1050
1000
950
900
850
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

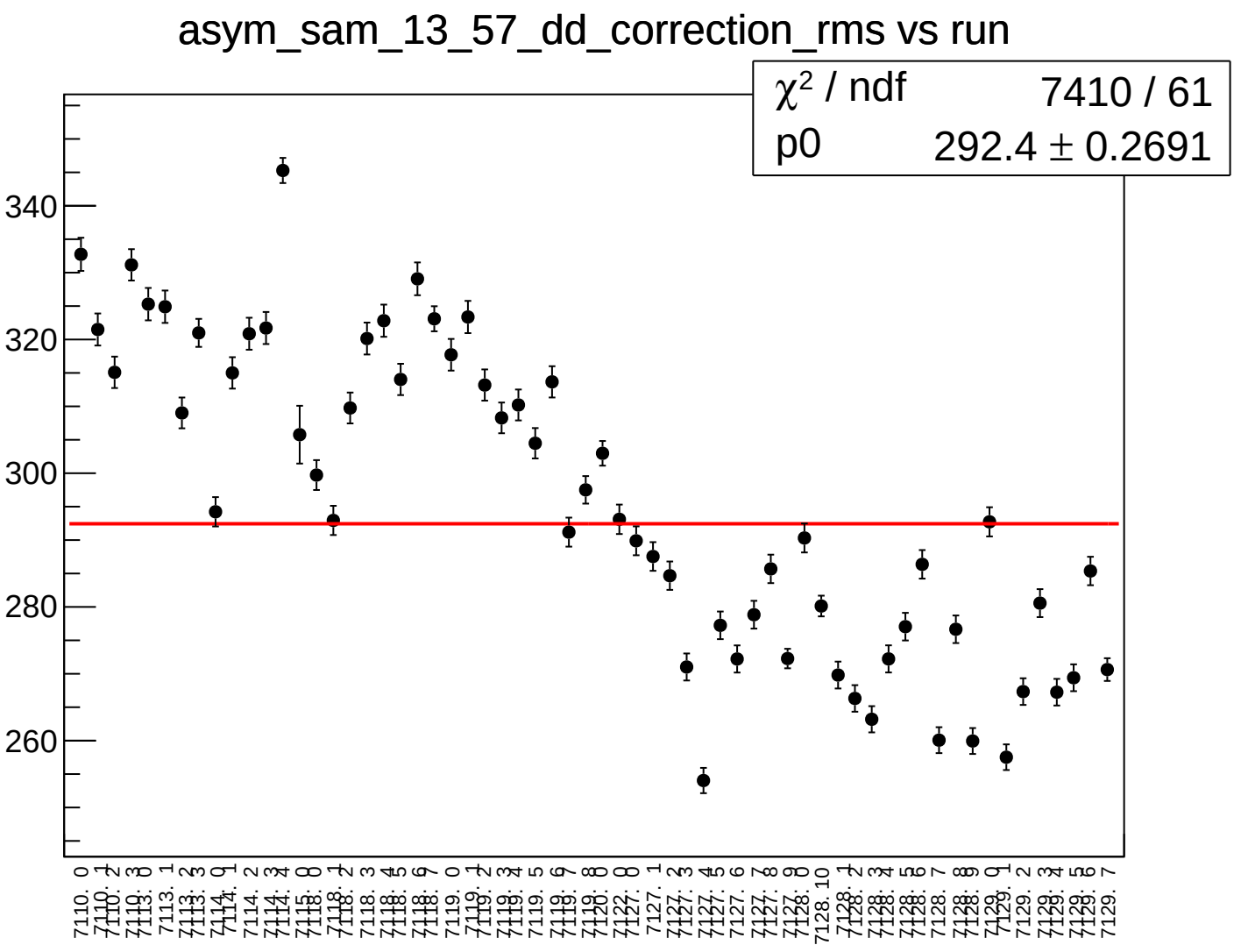

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 45.35 / 61
p0 −80.3 ± 73.8
pull
Entries 62
Mean −45.78
Std Dev 82.99

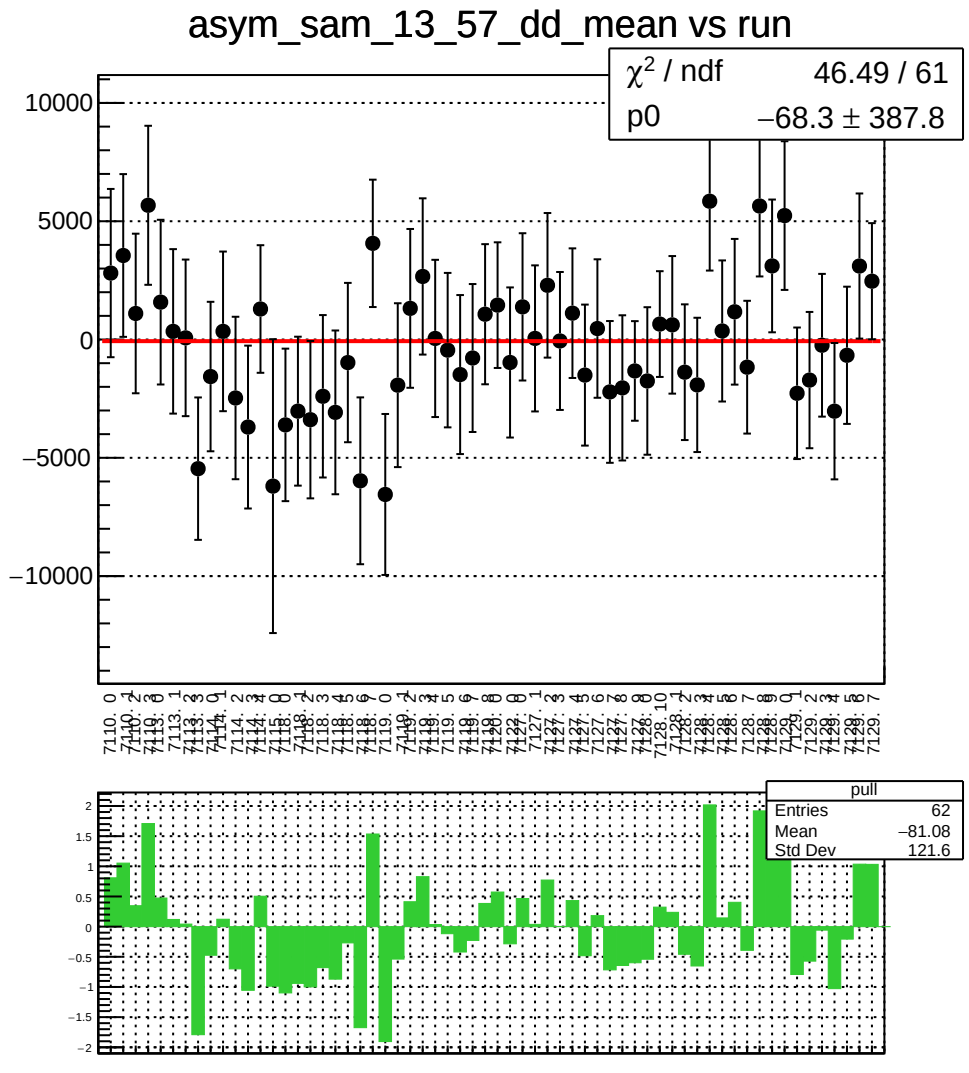

pull1D
Entries 62
Mean 0.01855
Std Dev 0.855

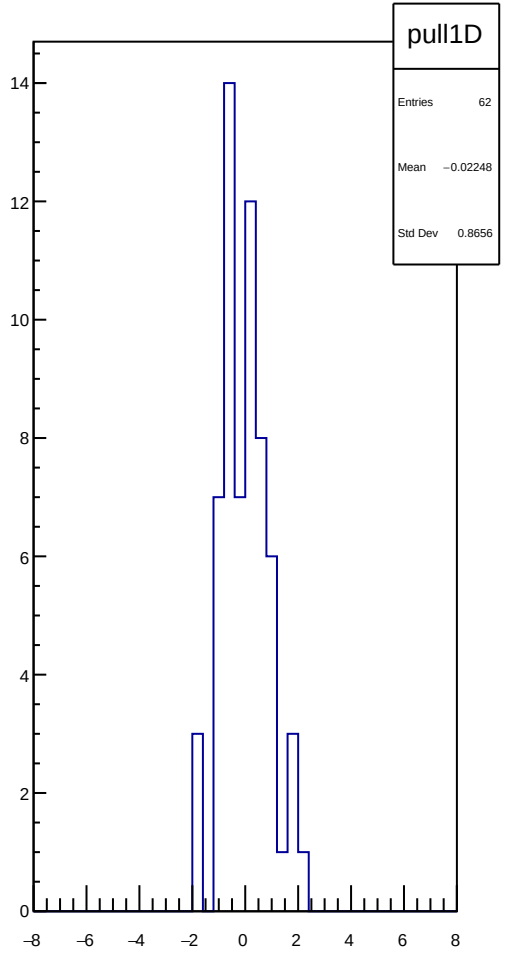

reg_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 591.4 / 61
p0 56.88 ± 0.05218
61
60
59
58
57
56
55
54
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

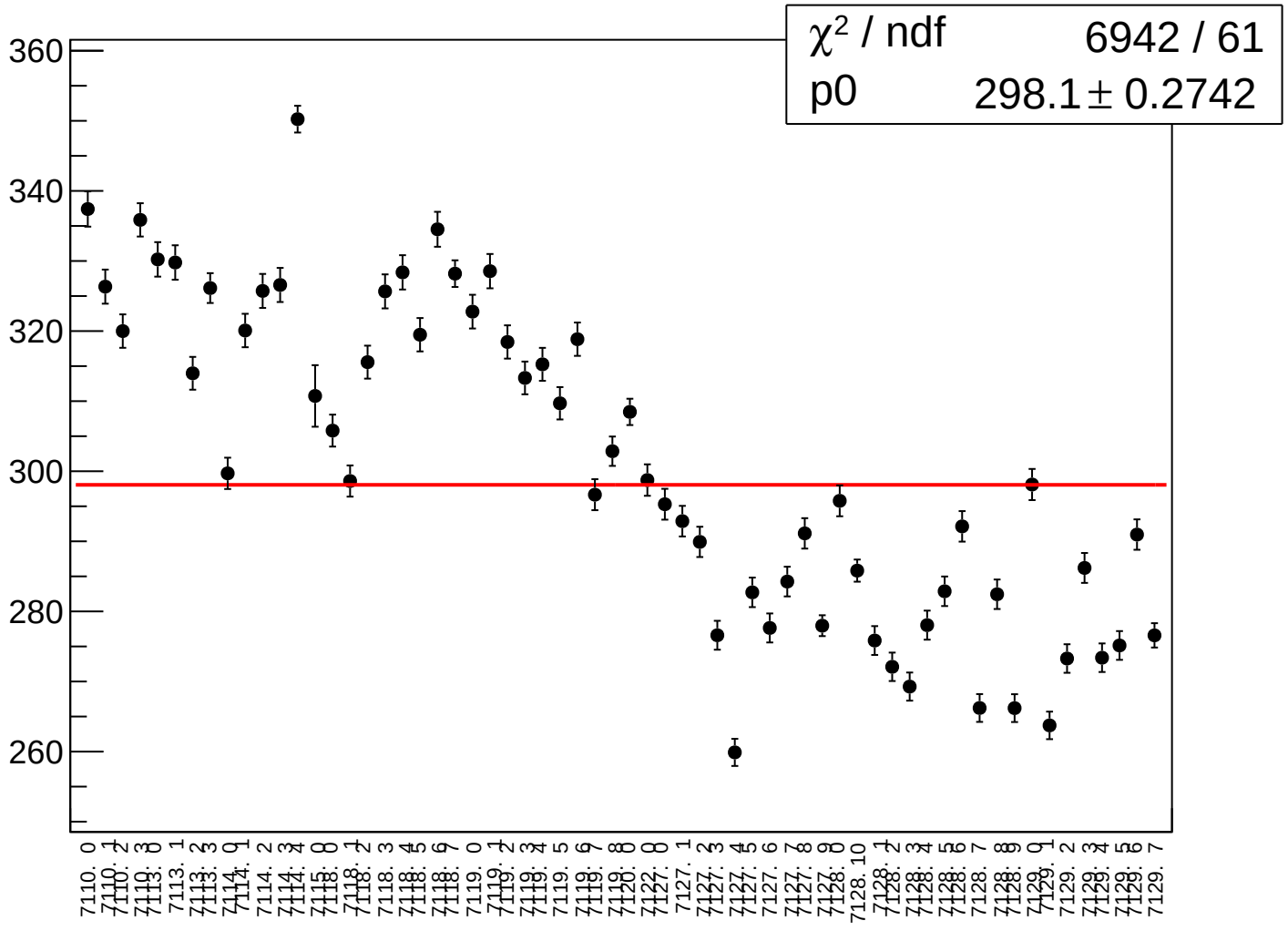

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 50.28 / 61
p0 −21.54 ± 380.5
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −71.19
Std Dev 111.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

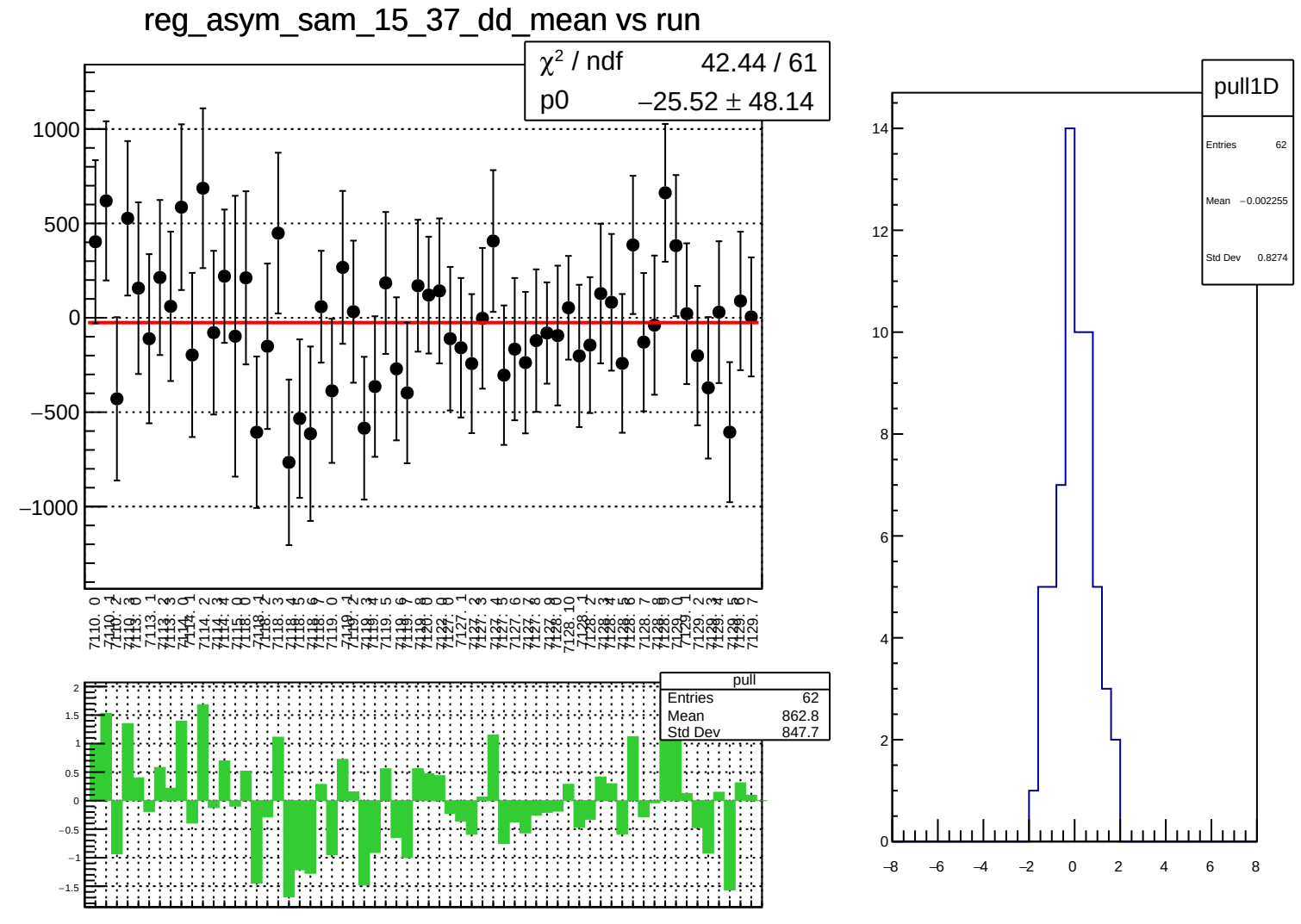

pull1D
Entries 62
Mean 0.02813
Std Dev 0.9001
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

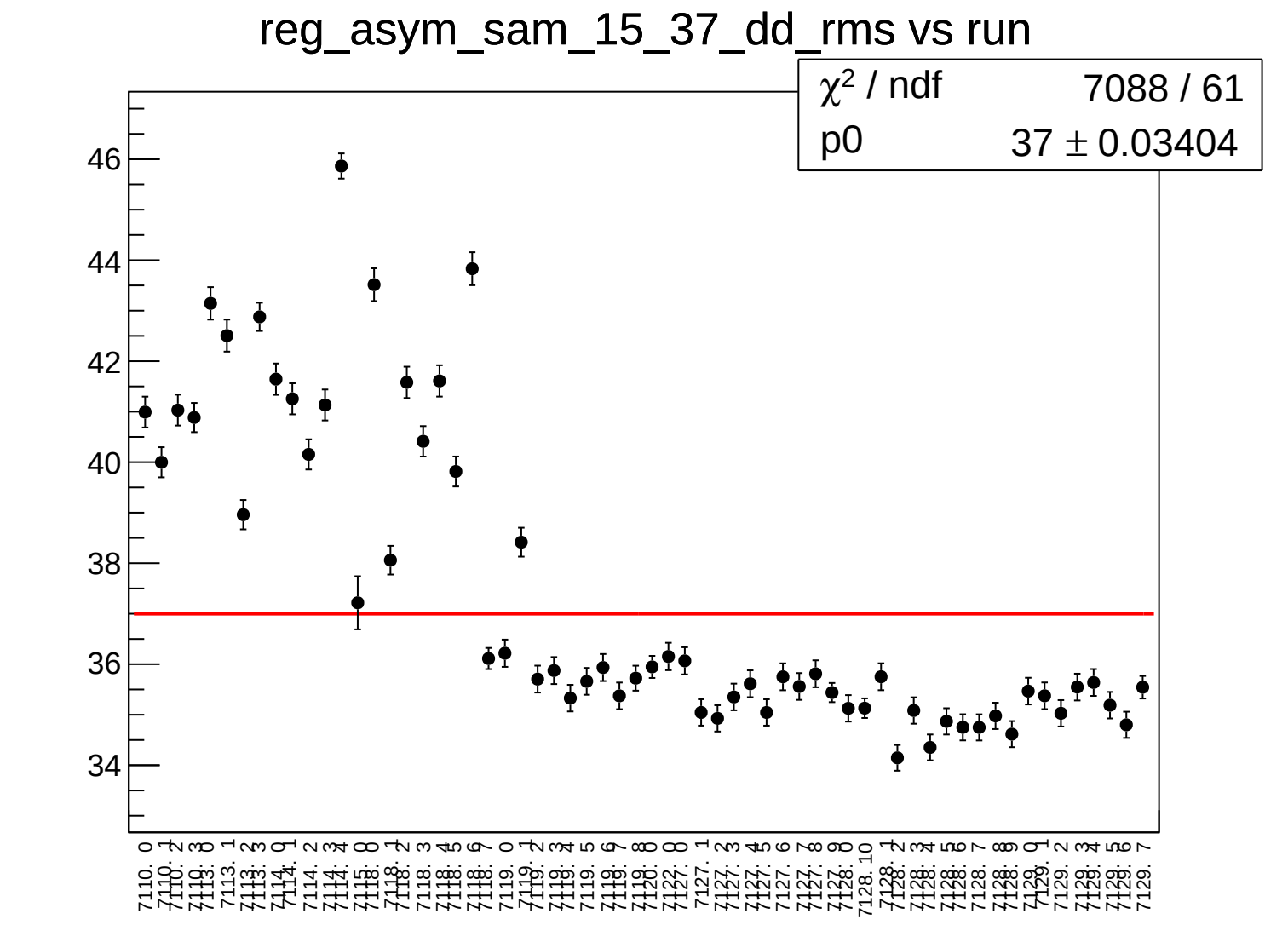

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 7410 / 61
p0 292.4 ± 0.2691
340
320
300
280
260

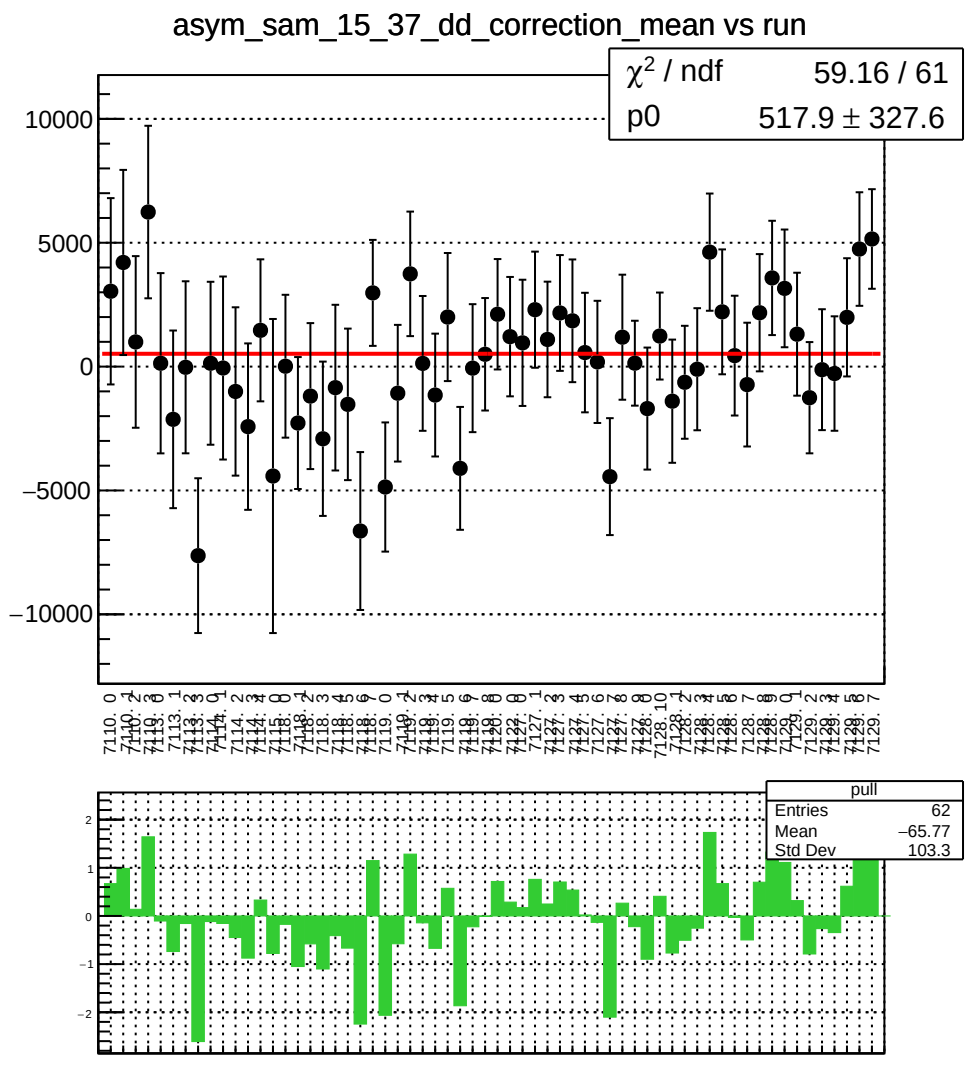

asym_sam_13_57_dd_mean vs run
χ² / ndf 46.49 / 61
p0 −68.3 ± 387.8
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −81.08
Std Dev 121.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

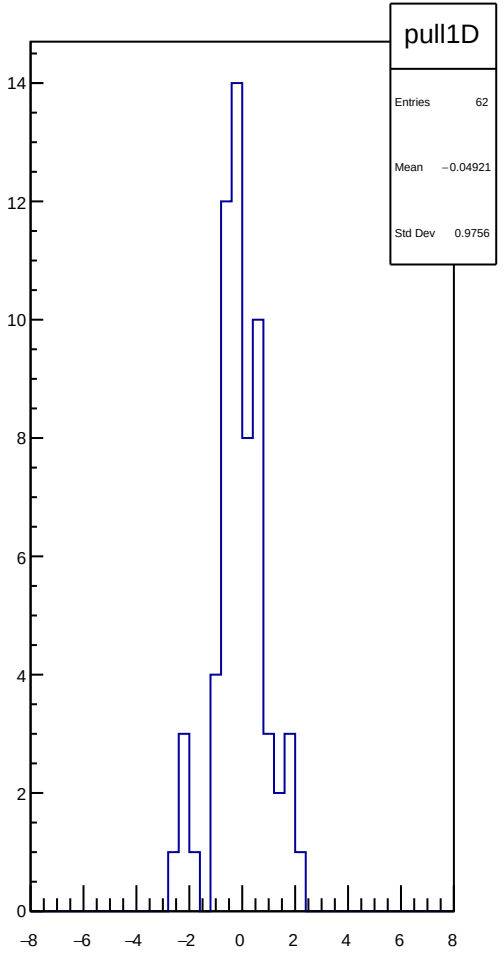

pull1D
Entries 62
Mean −0.02248
Std Dev 0.8656
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

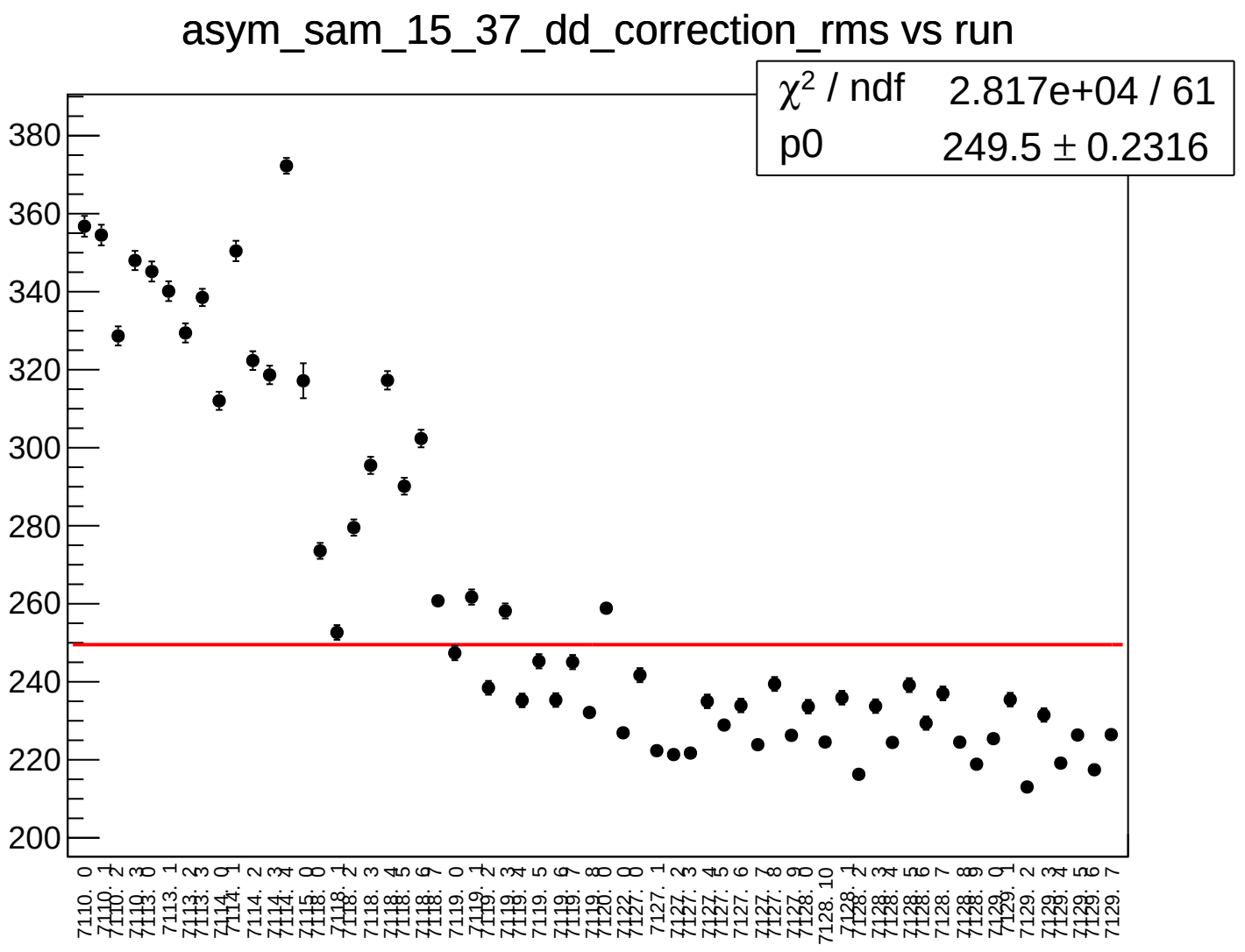

asym_sam_13_57_dd_rms vs run
χ² / ndf 6942 / 61
p0 298.1 ± 0.2742
360
340
320
300
280
260

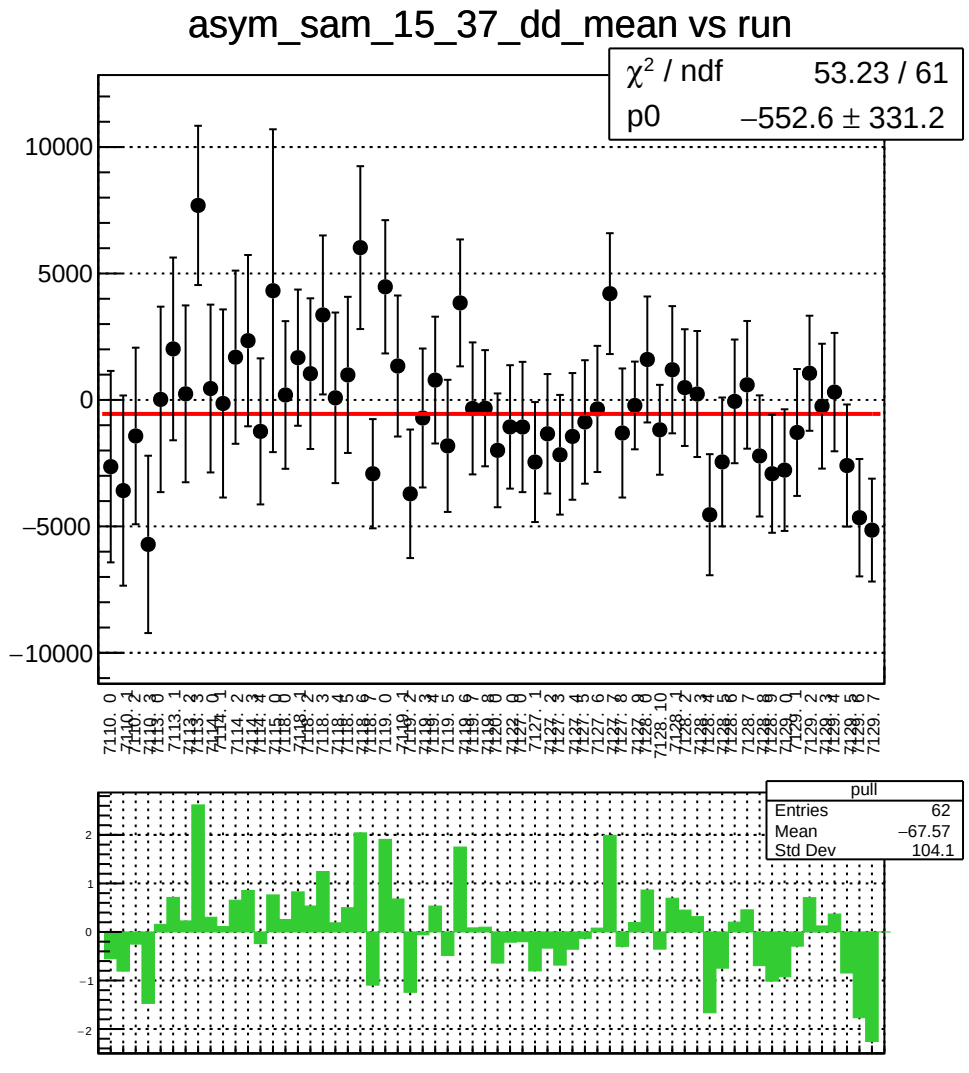

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 42.44 / 61
p0 −25.52 ± 48.14
1000
500
0
−500
−1000
pull
Entries 62
Mean 862.8
Std Dev 847.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 62
Mean −0.002255
Std Dev 0.8274
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

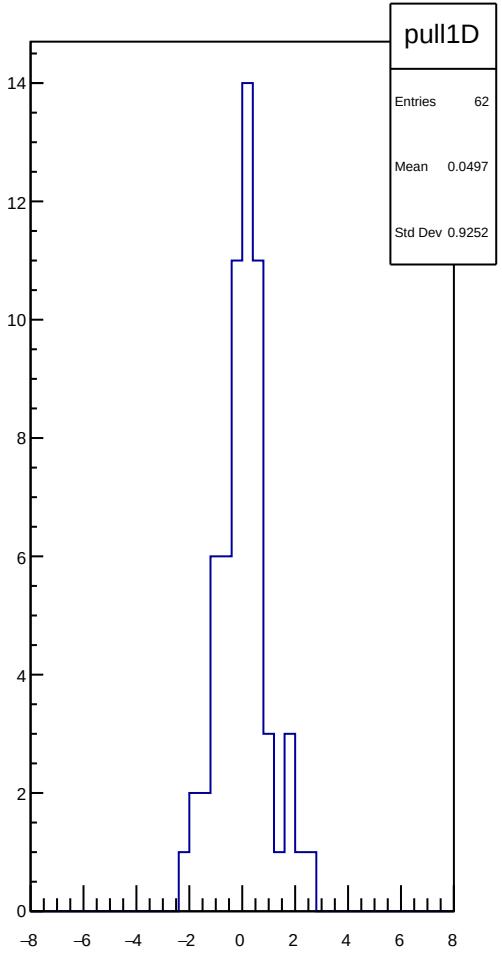

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 7088 / 61
p0 37 ± 0.03404
46
44
42
40
38
36
34
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 1
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

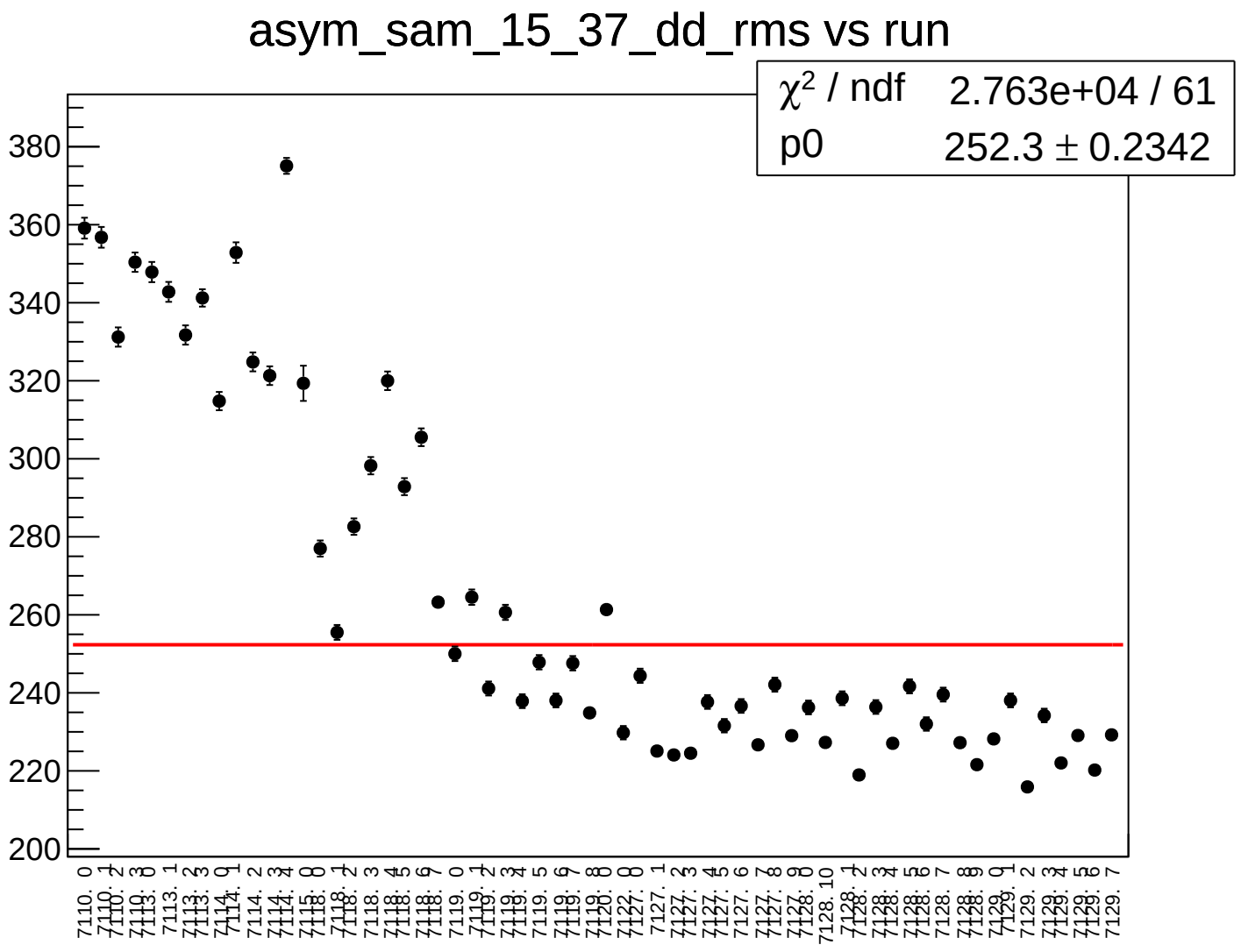

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 59.16 / 61
p0 517.9 ± 327.6
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −65.77
Std Dev 103.3
2
1
0
−1
−2

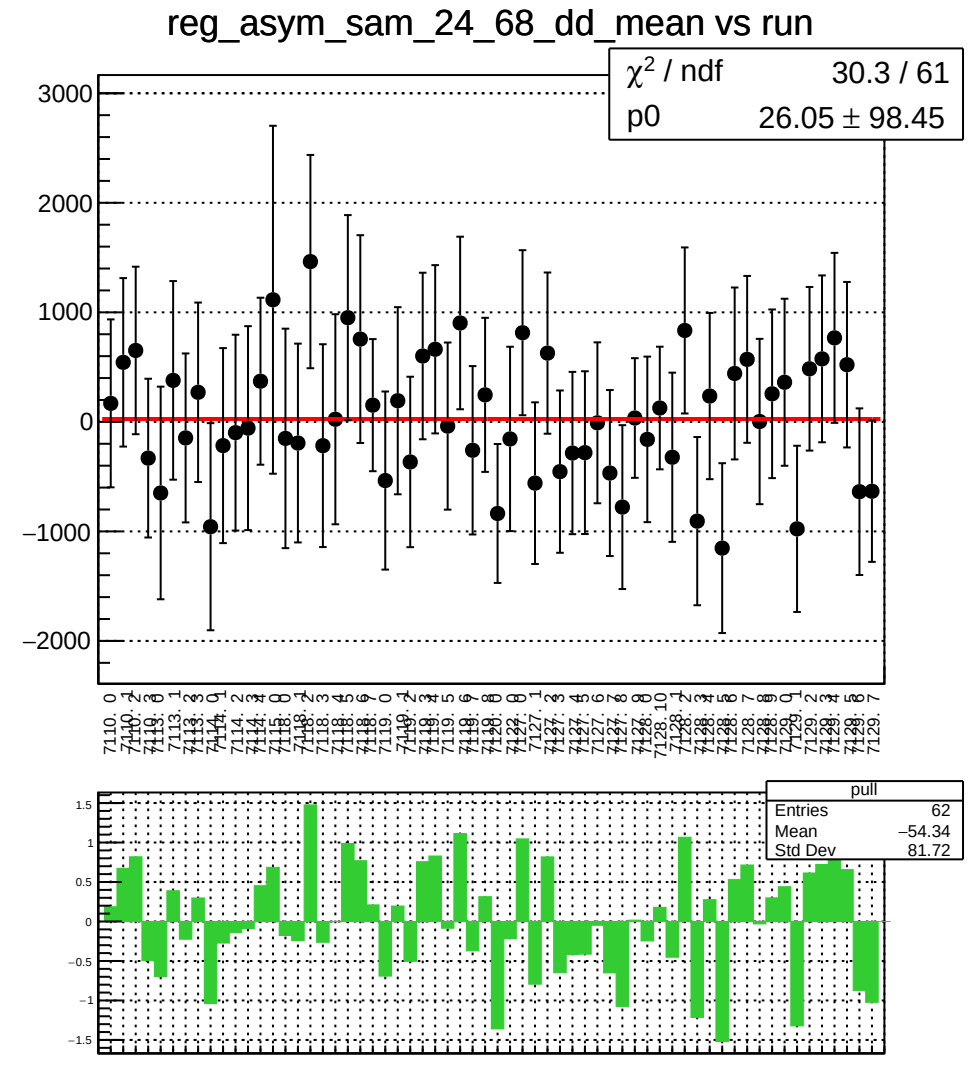

pull1D
Entries 62
Mean −0.04921
Std Dev 0.9756
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

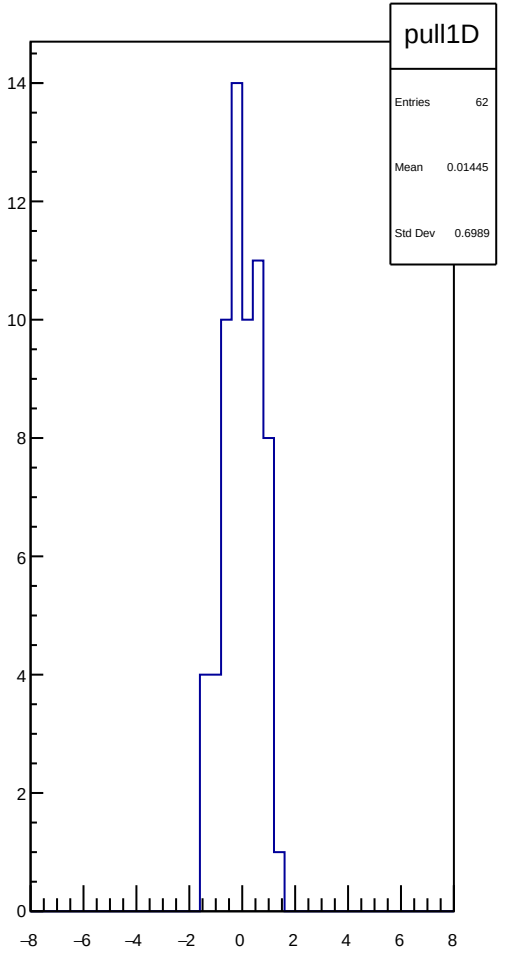

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 2.817e+04 / 61
p0 249.5 ± 0.2316
380
360
340
320
300
280
260
240
220
200

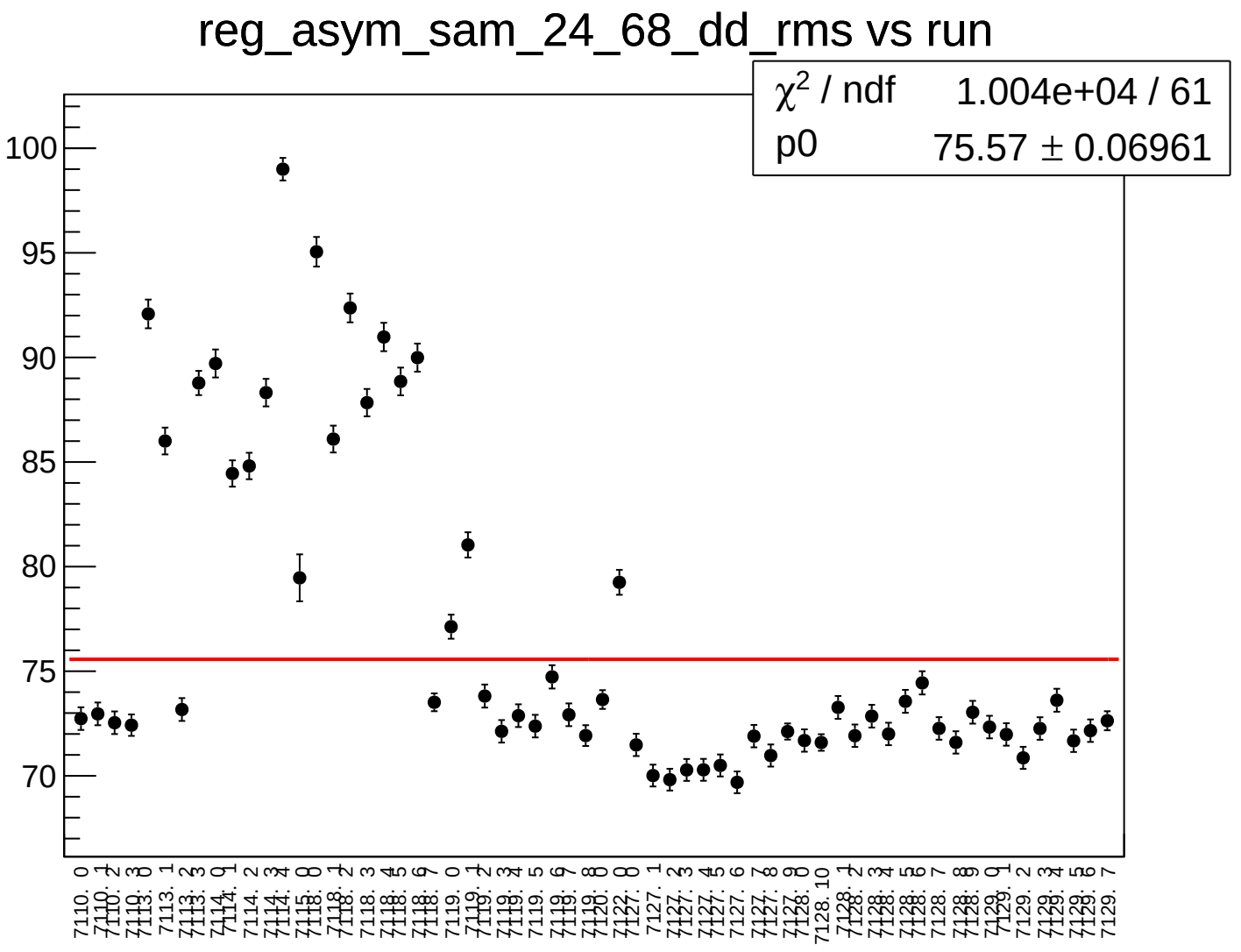

asym_sam_15_37_dd_mean vs run
χ² / ndf 53.23 / 61
p0 −552.6 ± 331.2
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −67.57
Std Dev 104.1
2
1
0
−1
−2

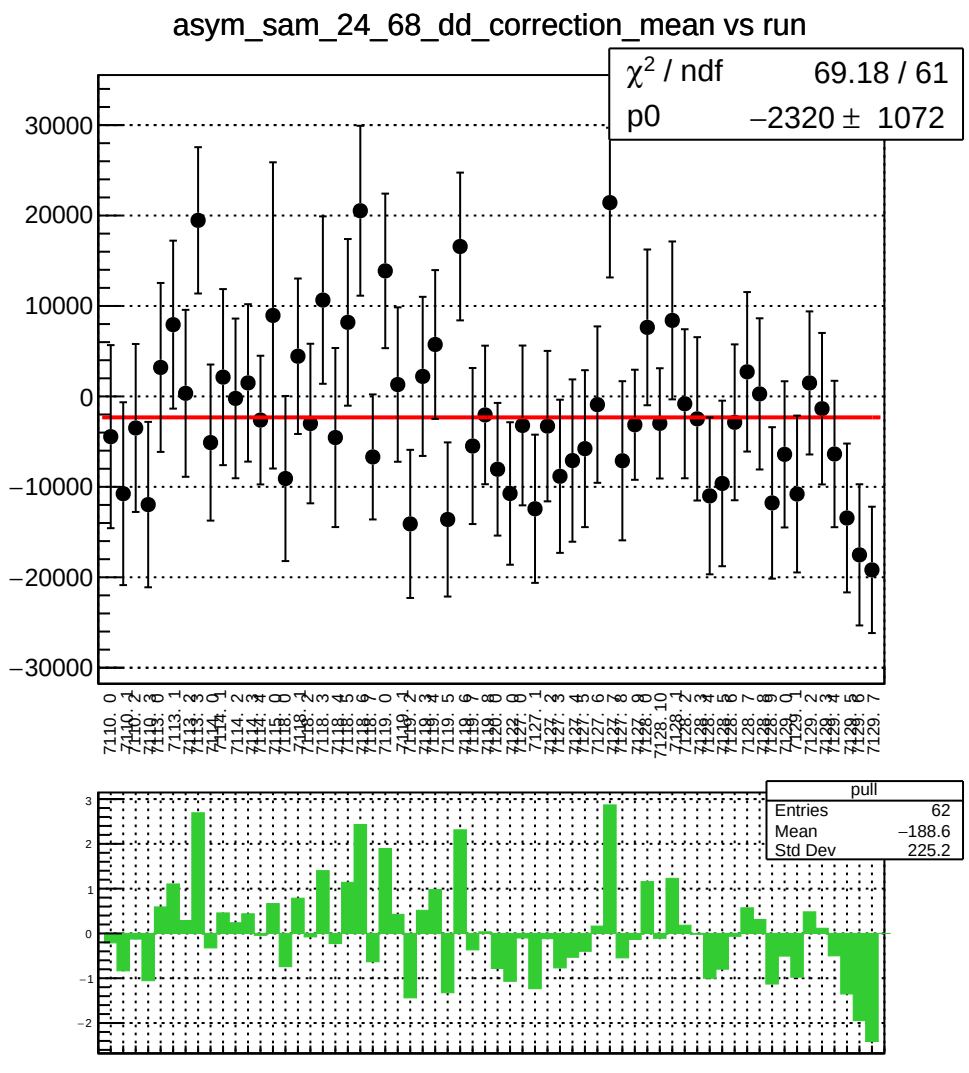

pull1D
Entries 62
Mean 0.0497
Std Dev 0.9252
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

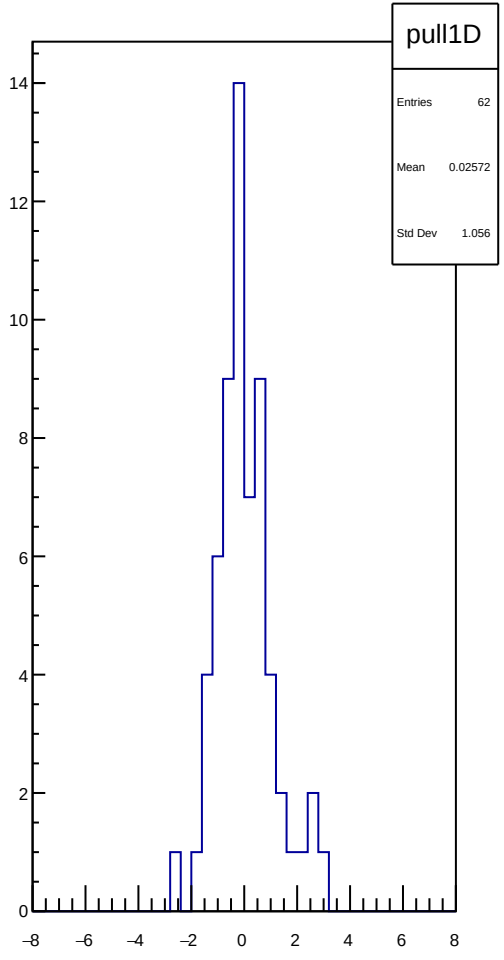

asym_sam_15_37_dd_rms vs run
χ² / ndf 2.763e+04 / 61
p0 252.3 ± 0.2342
380
360
340
320
300
280
260
240
220
200

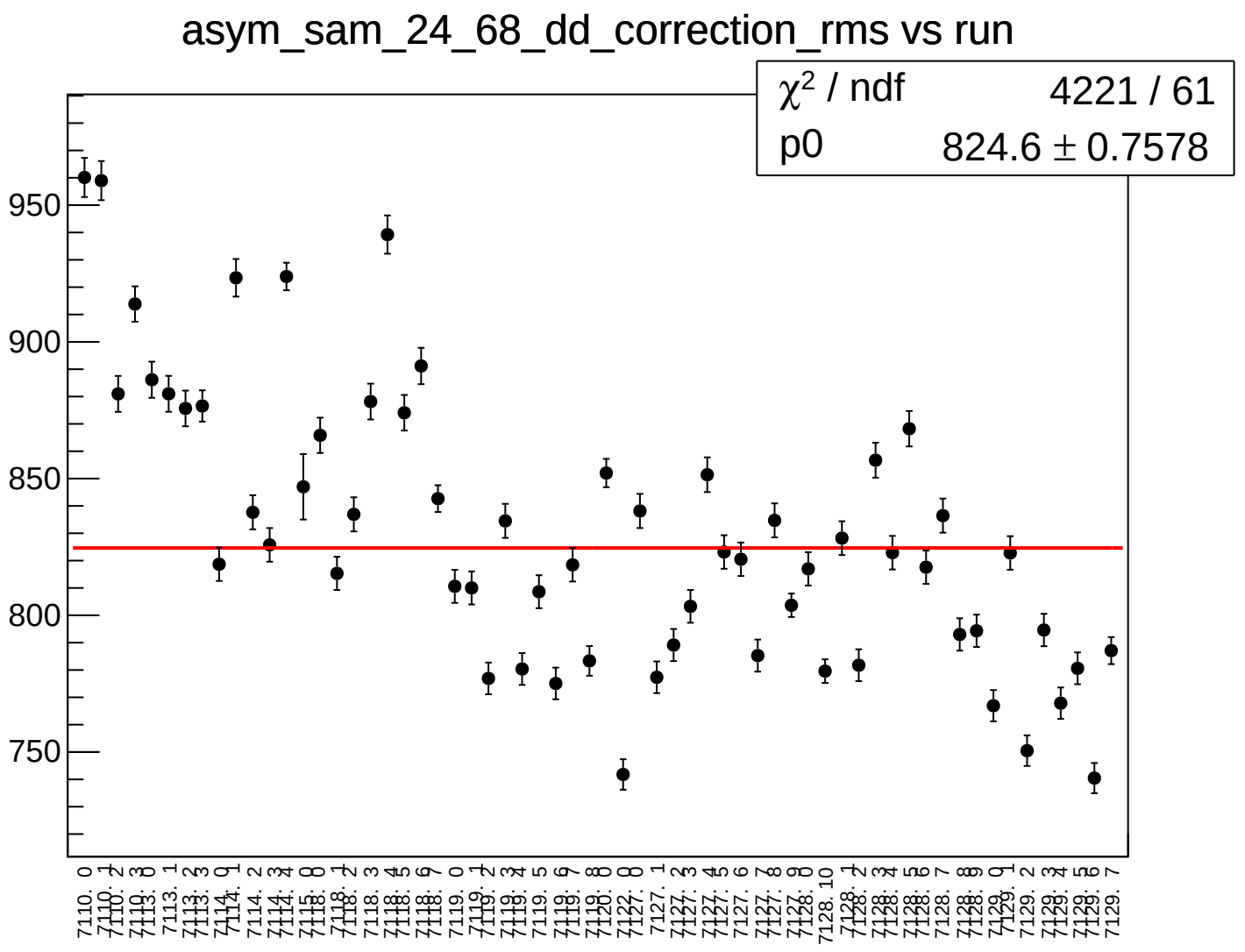

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 30.3 / 61
p0 26.05 ± 98.45
pull
Entries 62
Mean −54.34
Std Dev 81.72

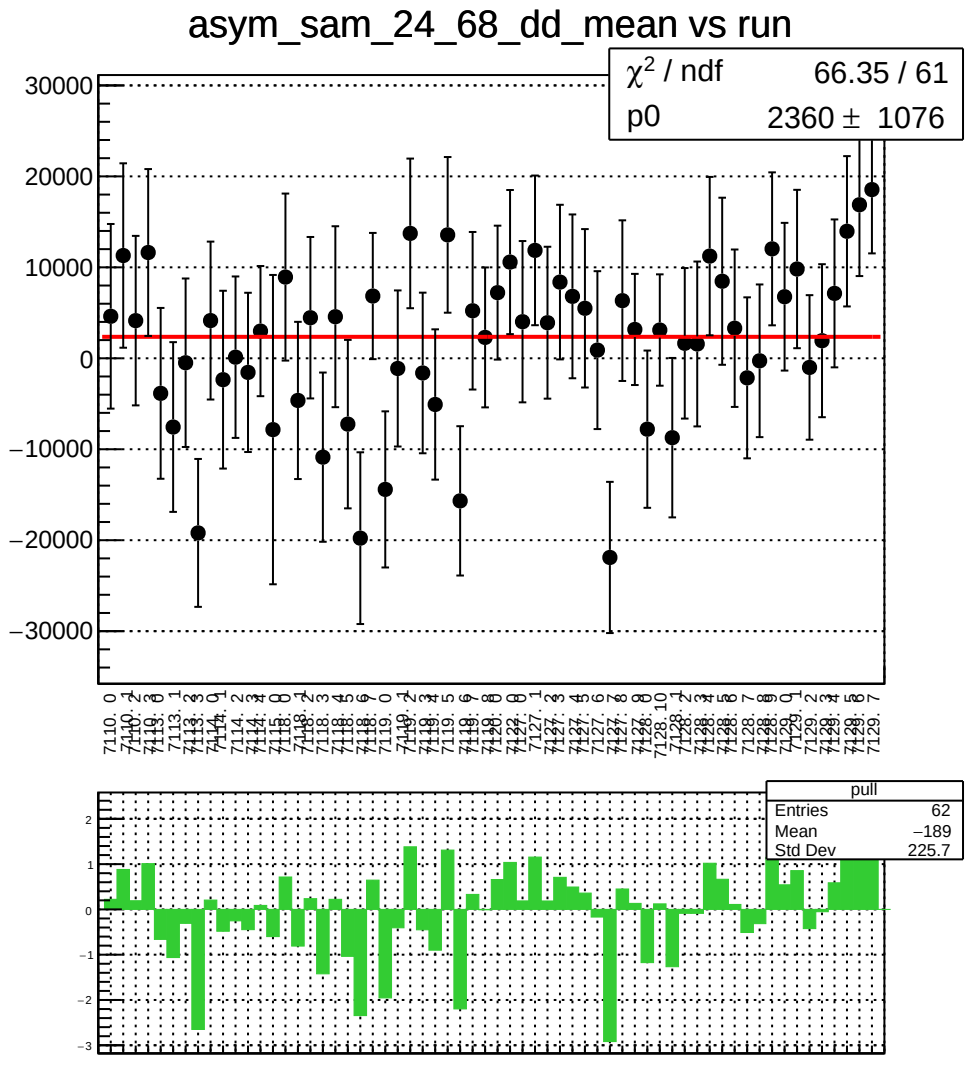

pull1D
Entries 62
Mean 0.01445
Std Dev 0.6989

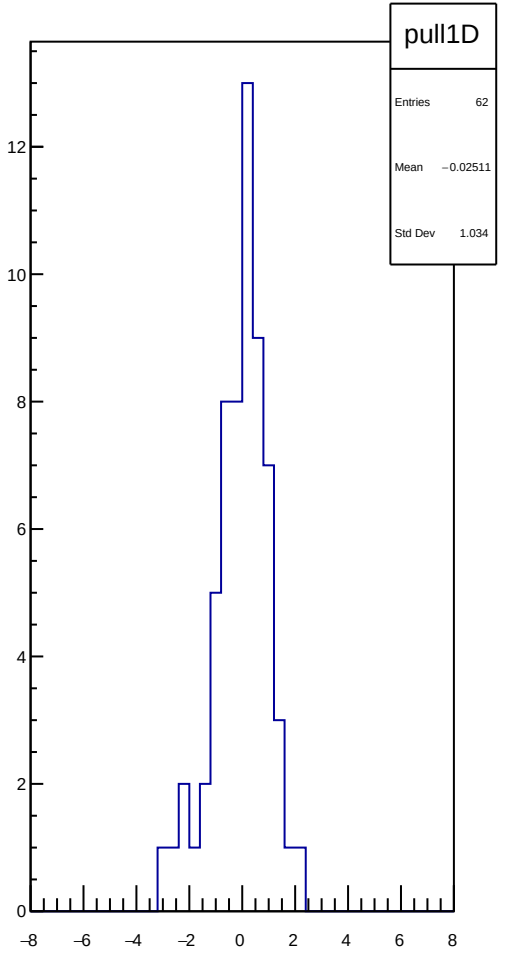

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1.004e+04 / 61
p0 75.57 ± 0.06961
100
95
90
85
80
75
70
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

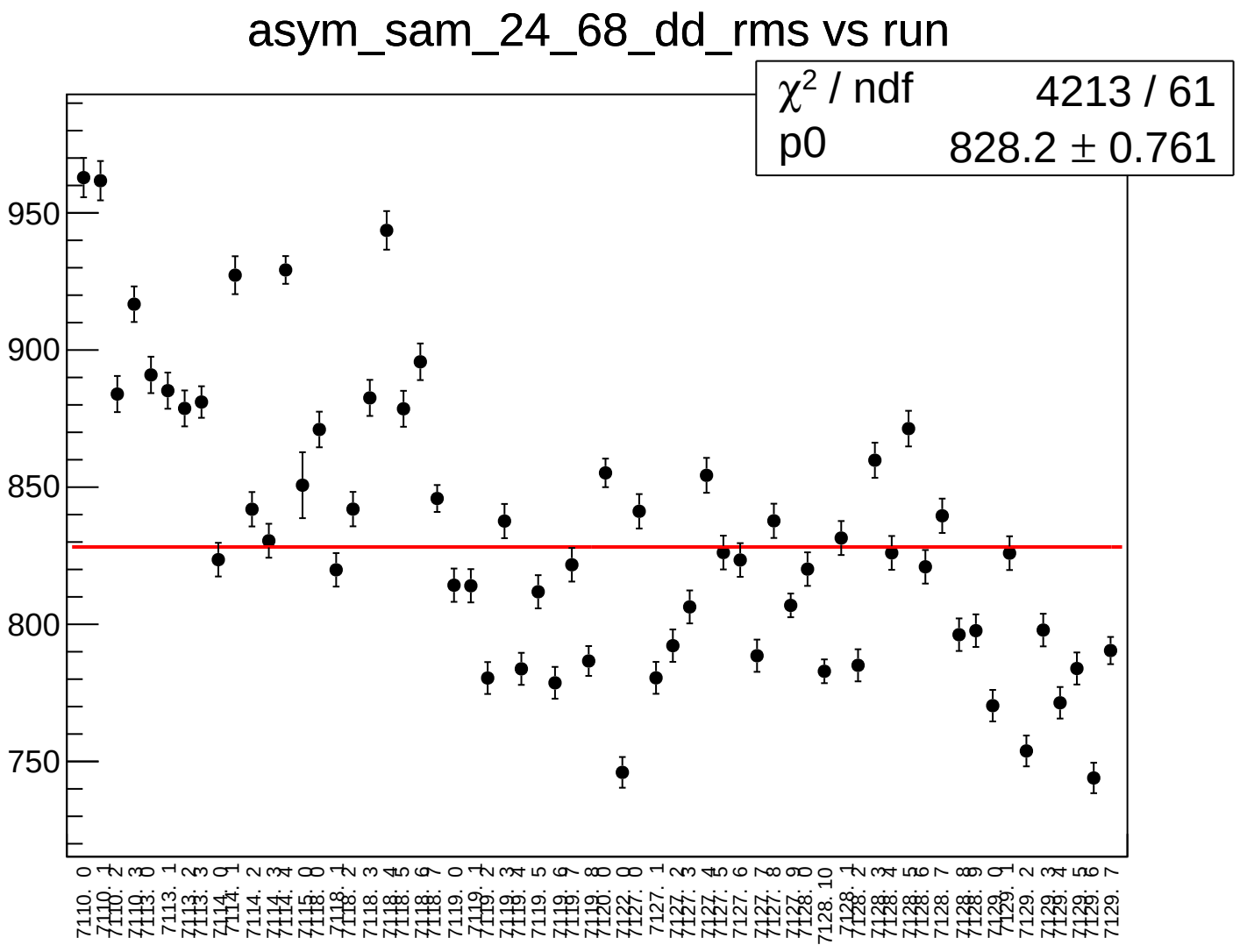

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 69.18 / 61
p0 −2320 ± 1072
pull
Entries 62
Mean −188.6
Std Dev 225.2

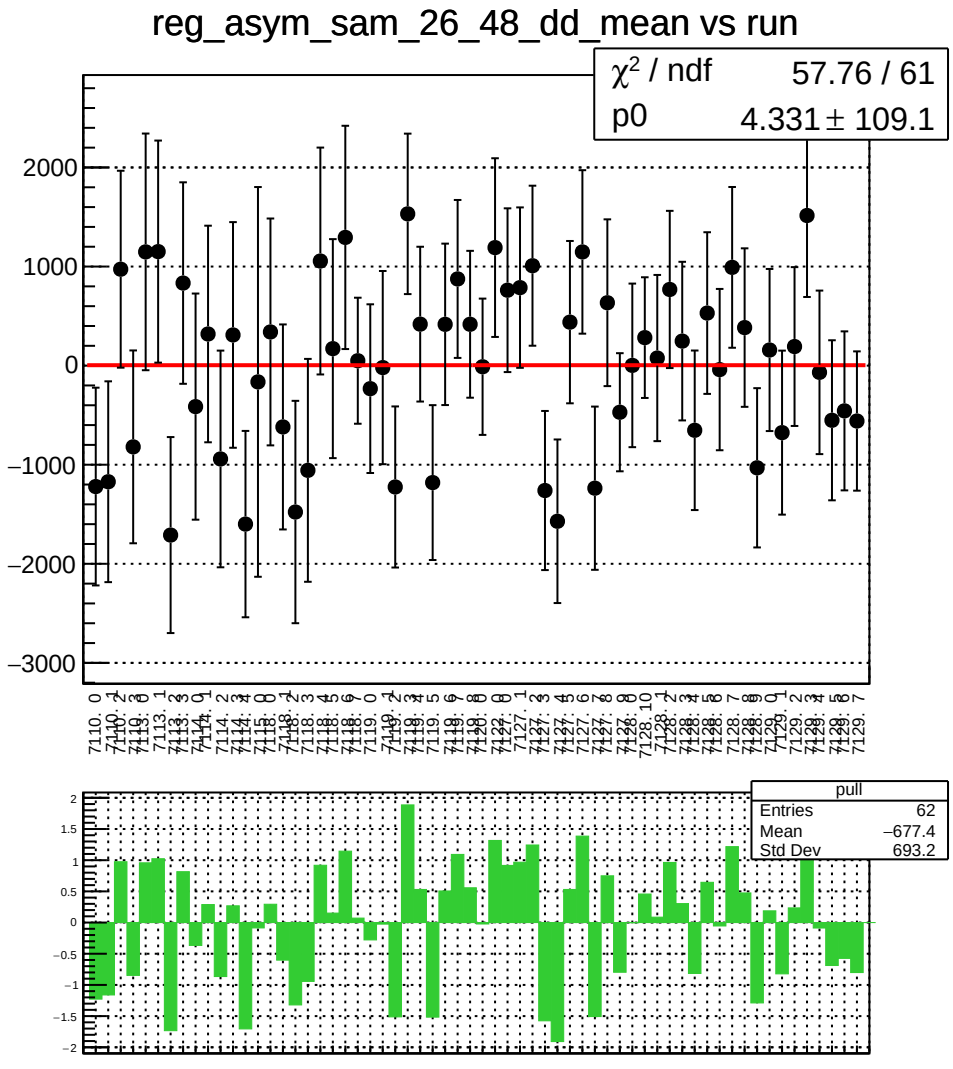

pull1D
Entries 62
Mean 0.02572
Std Dev 1.056

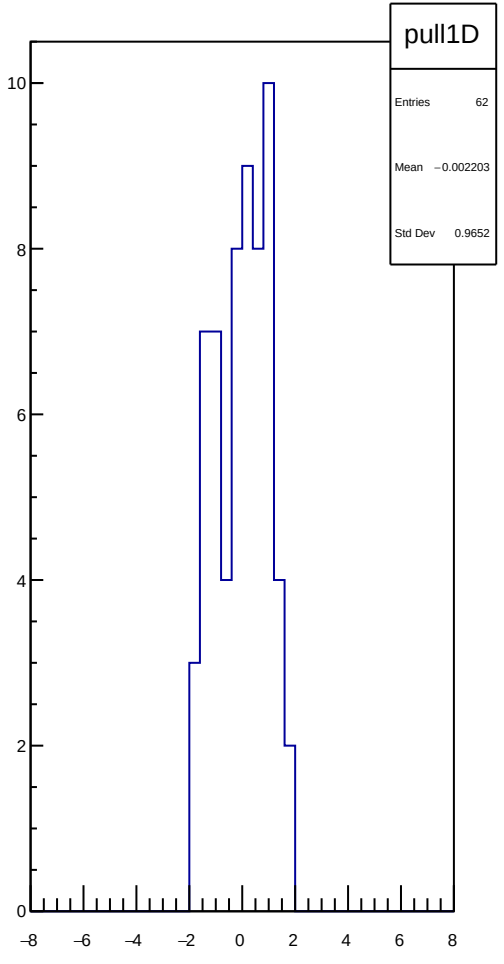

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 4221 / 61
p0 824.6 ± 0.7578
950
900
850
800
750

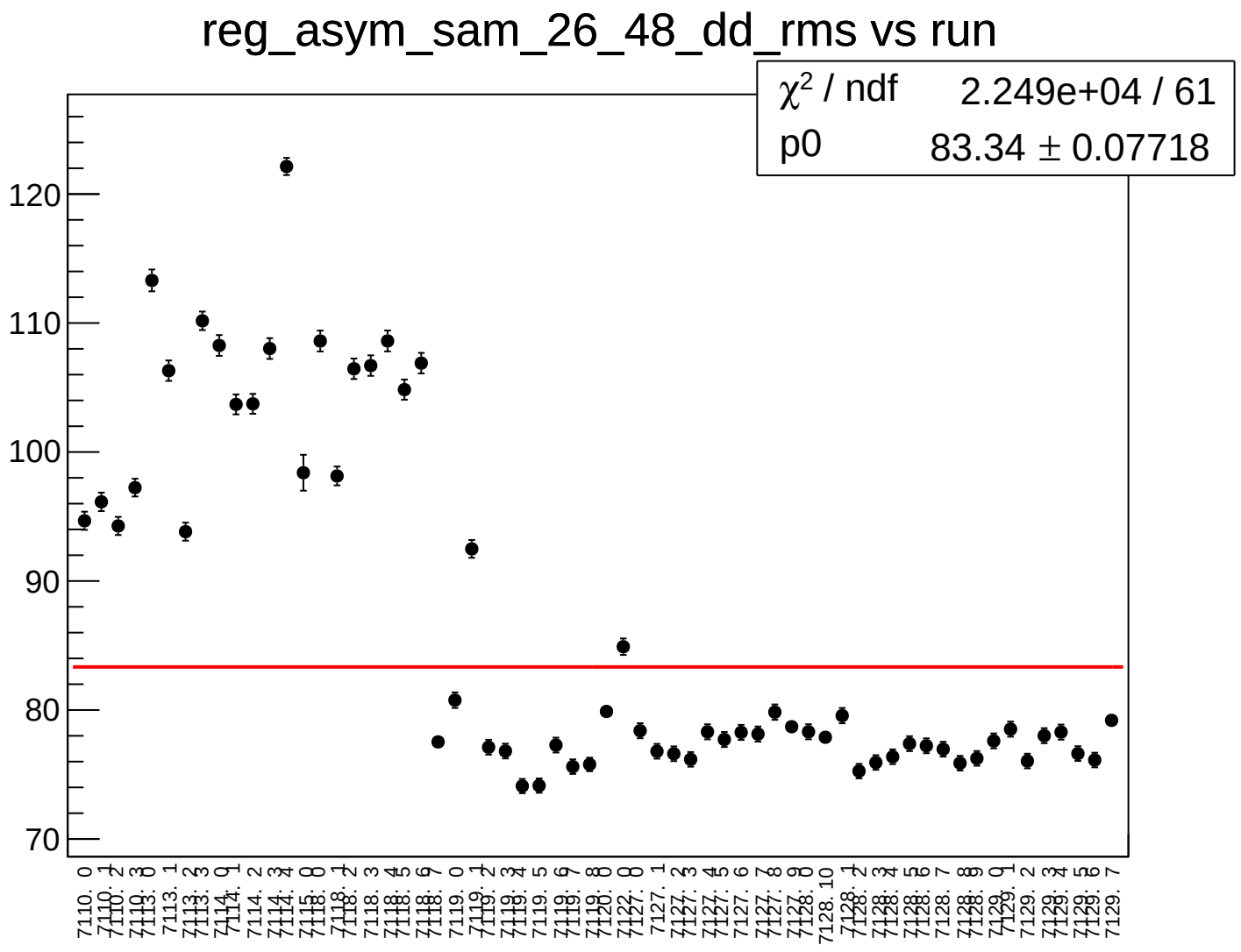

asym_sam_24_68_dd_mean vs run
χ² / ndf 66.35 / 61
p0 2360 ± 1076
pull
Entries 62
Mean −189
Std Dev 225.7

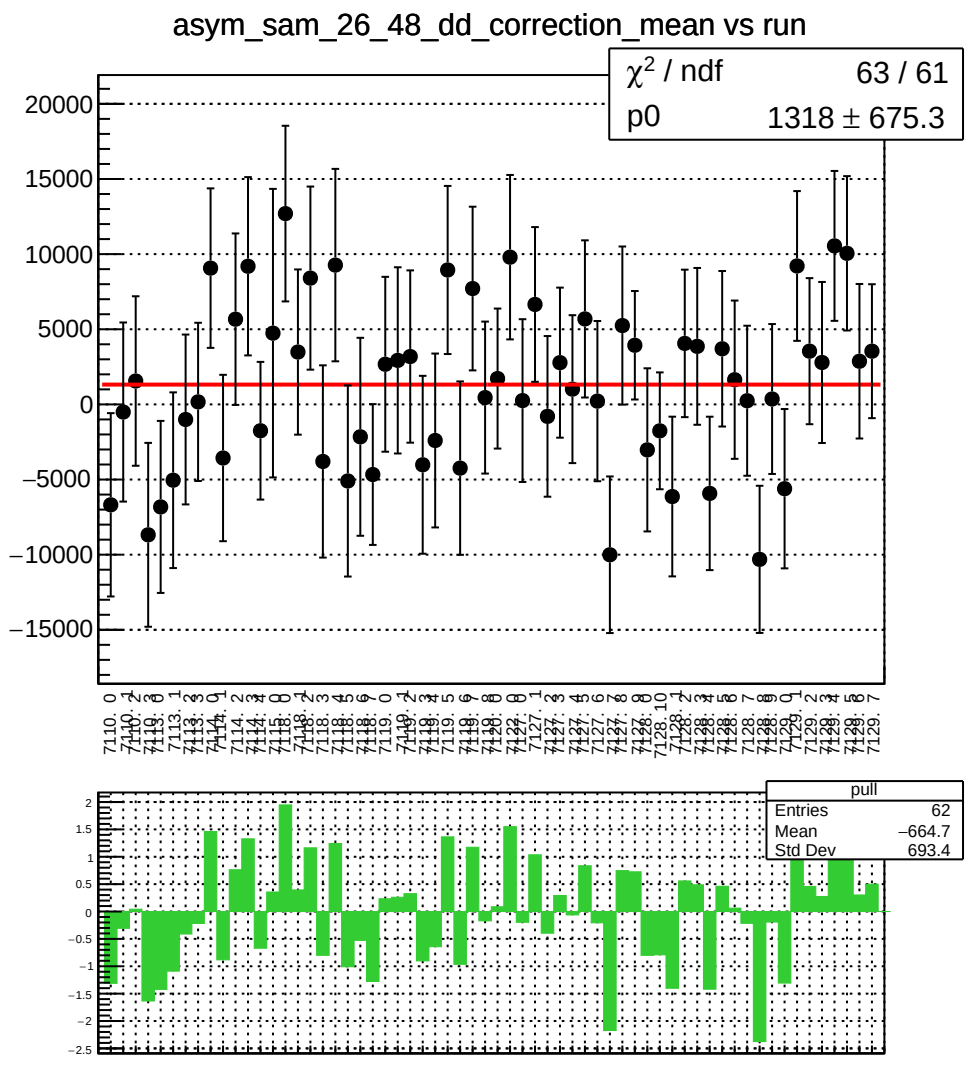

pull1D
Entries 62
Mean −0.02511
Std Dev 1.034

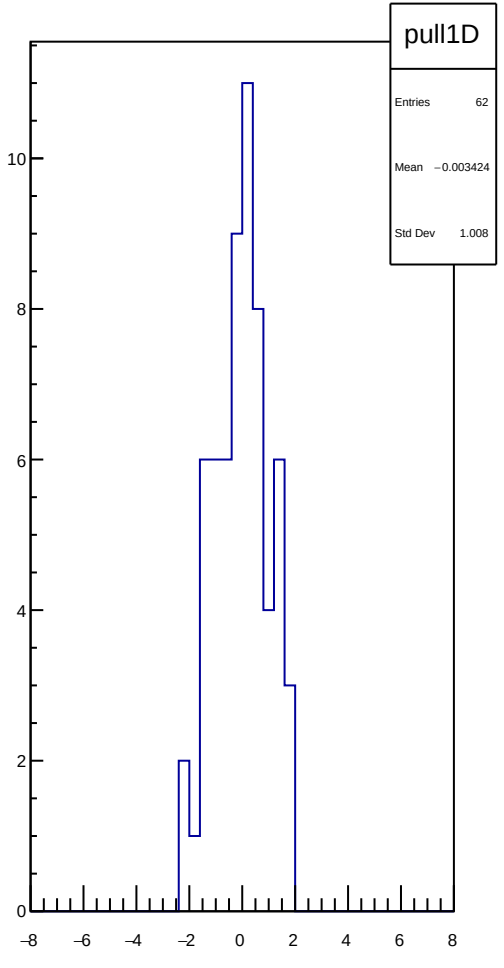

asym_sam_24_68_dd_rms vs run
χ² / ndf 4213 / 61
p0 828.2 ± 0.761
950
900
850
800
750

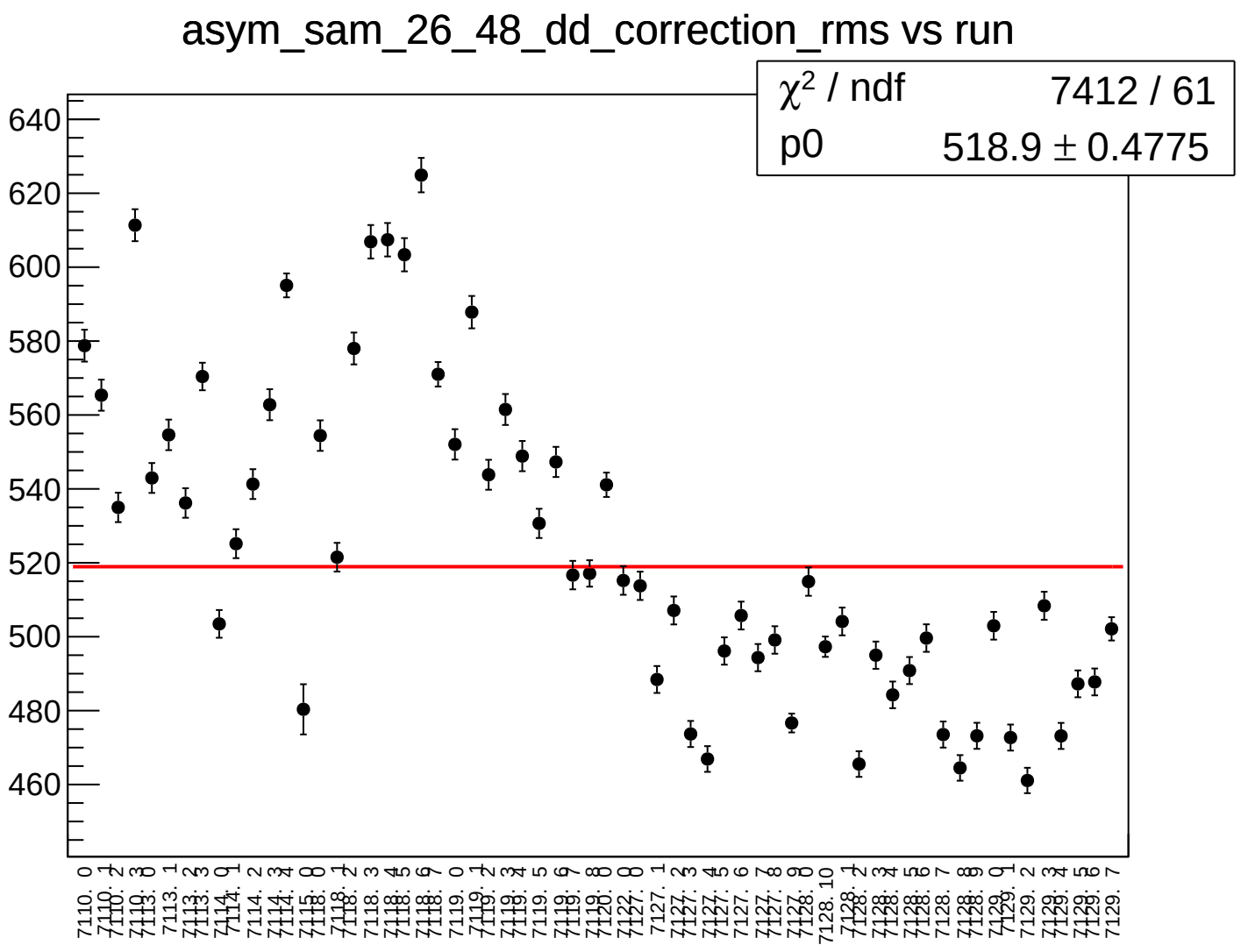

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 57.76 / 61
p0 4.331 ± 109.1
pull
Entries 62
Mean −677.4
Std Dev 693.2

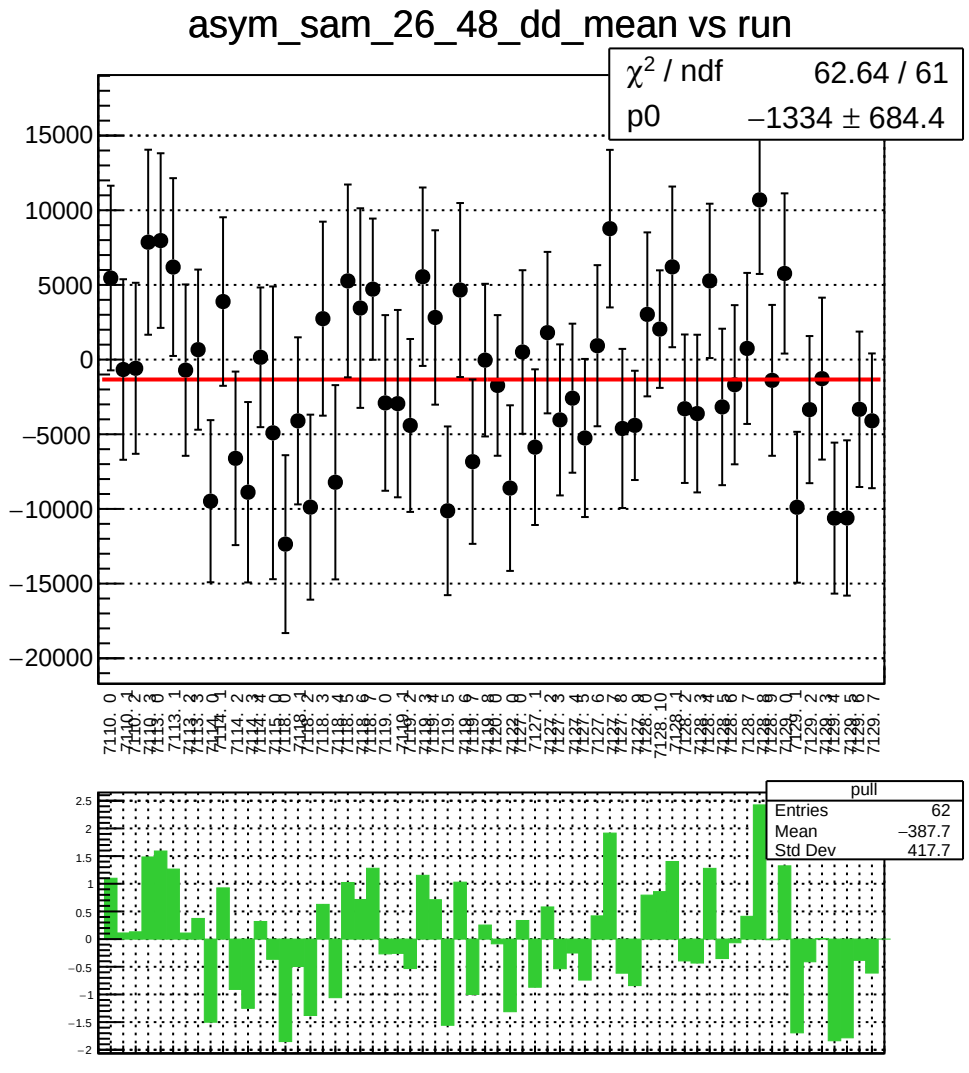

pull1D
Entries 62
Mean −0.002203
Std Dev 0.9652

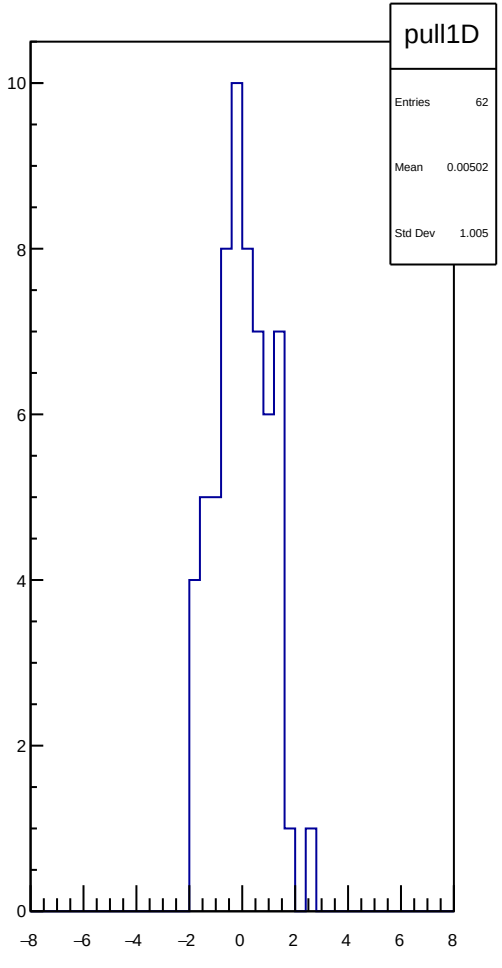

reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 2.249e+04 / 61
p0 83.34 ± 0.07718
120
110
100
90
80
70
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

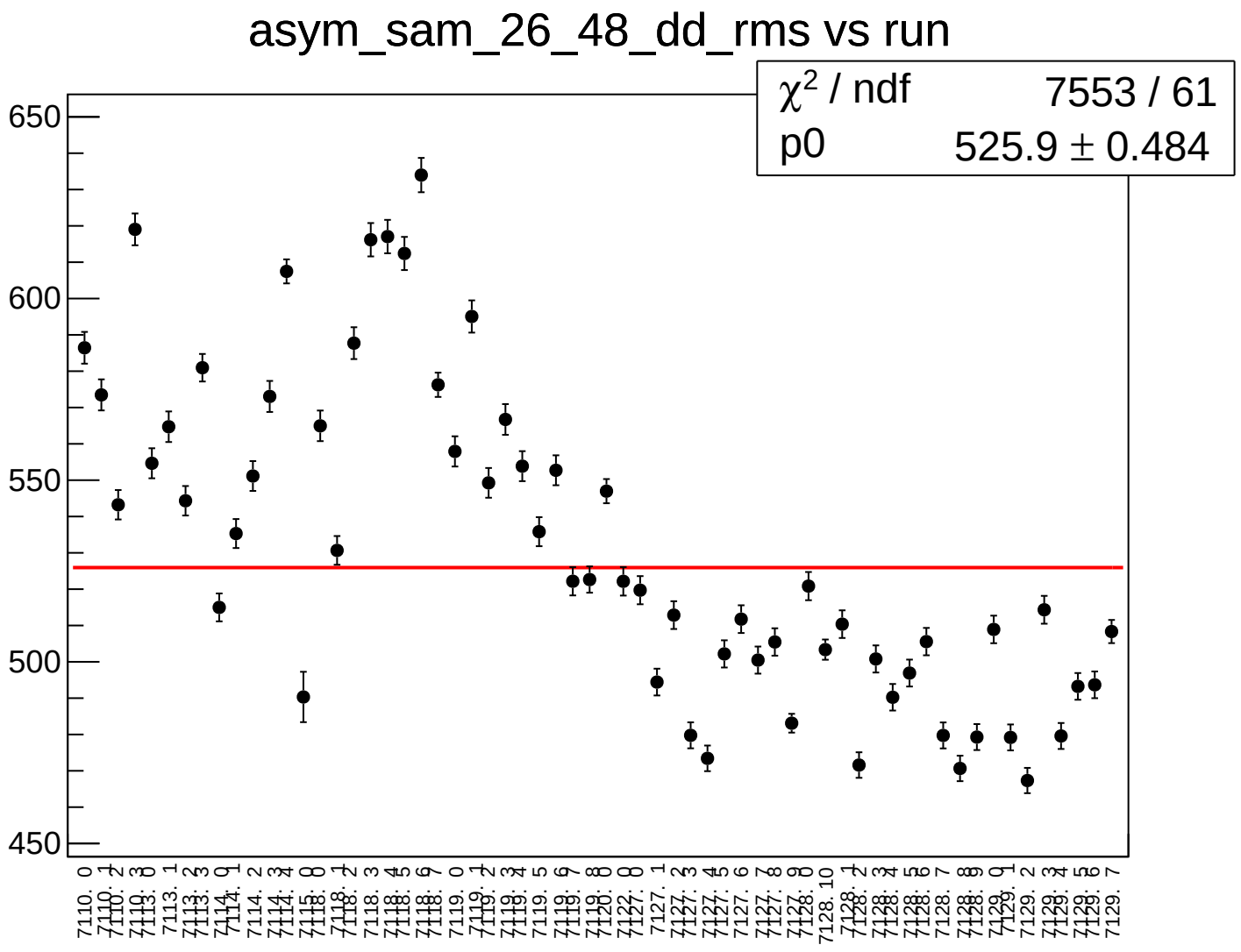

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 63 / 61
p0 1318 ± 675.3
pull
Entries 62
Mean −664.7
Std Dev 693.4

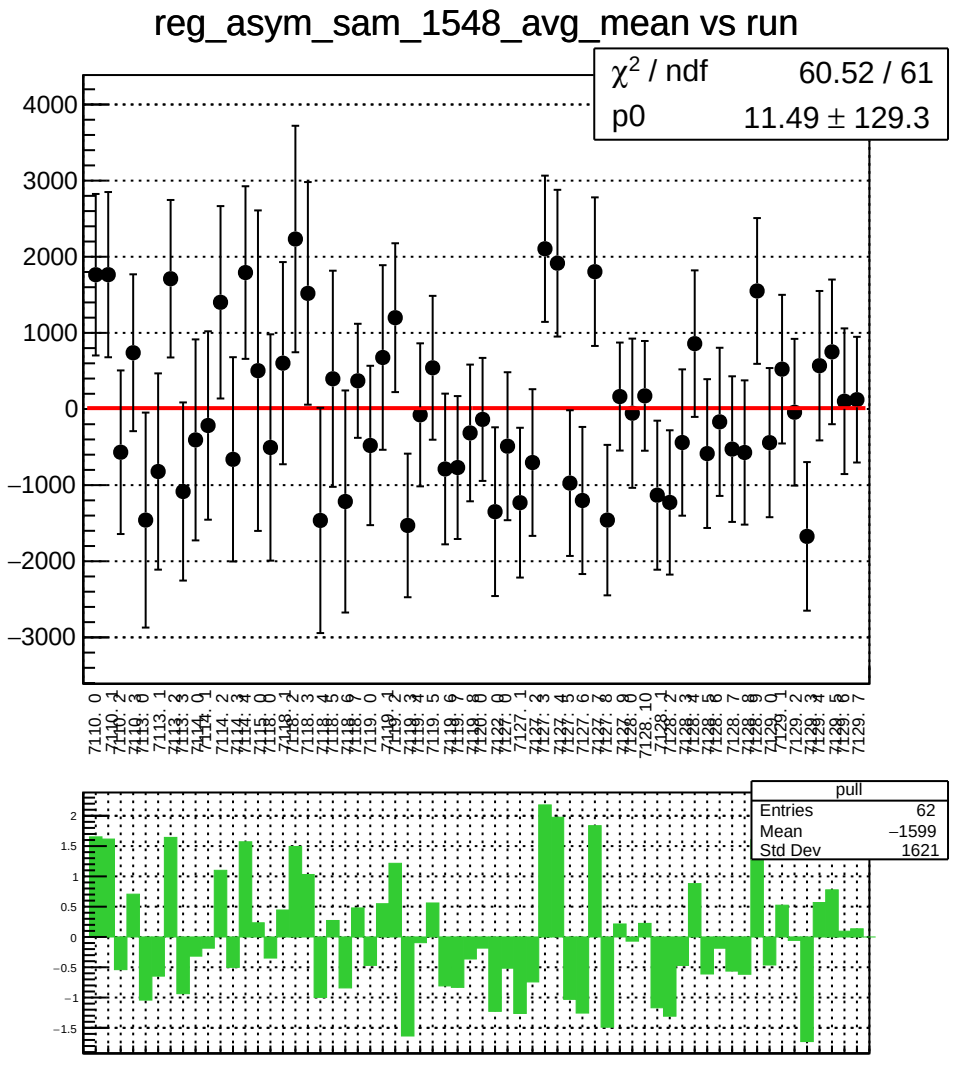

pull1D
Entries 62
Mean −0.003424
Std Dev 1.008

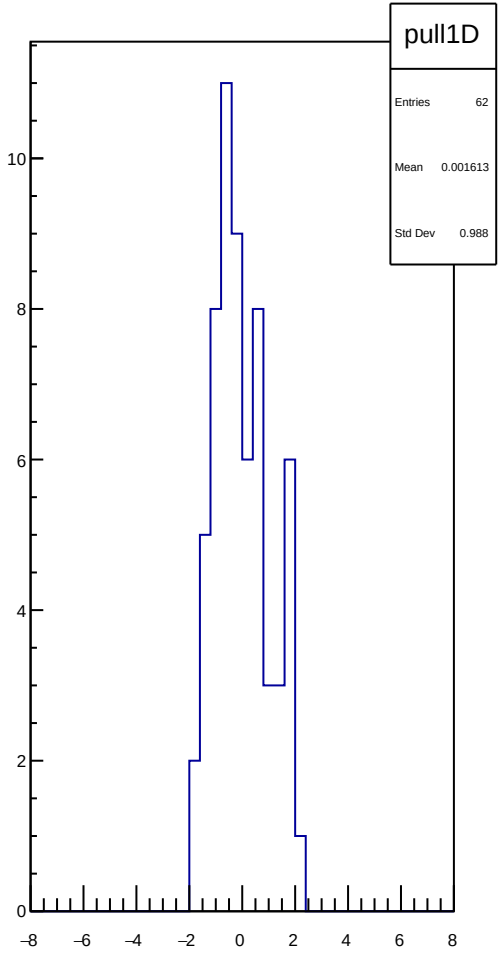

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 7412 / 61
p0 518.9 ± 0.4775
640
620
600
580
560
540
520
500
480
460

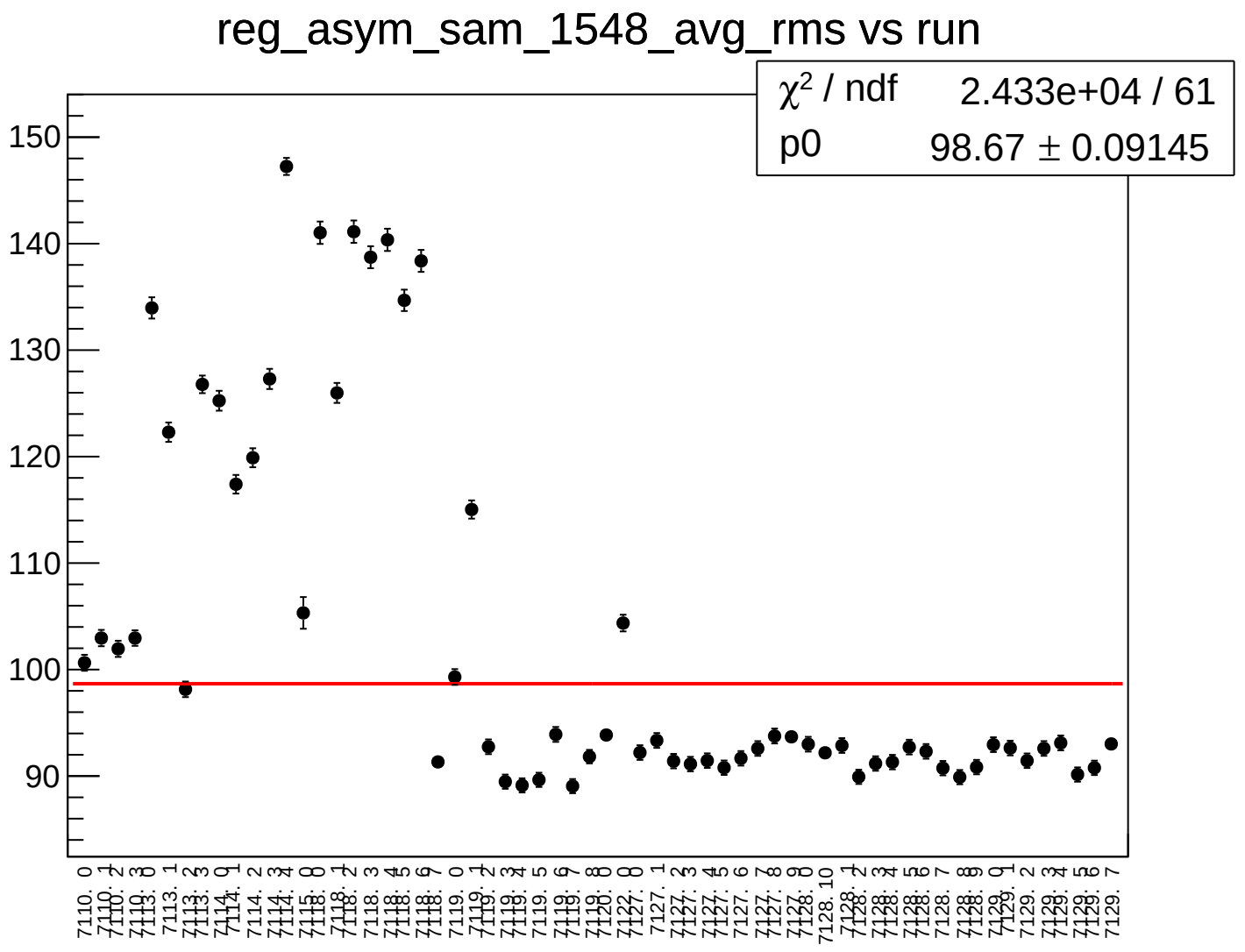

asym_sam_26_48_dd_mean vs run
χ² / ndf 62.64 / 61
p0 −1334 ± 684.4
pull
Entries 62
Mean −387.7
Std Dev 417.7

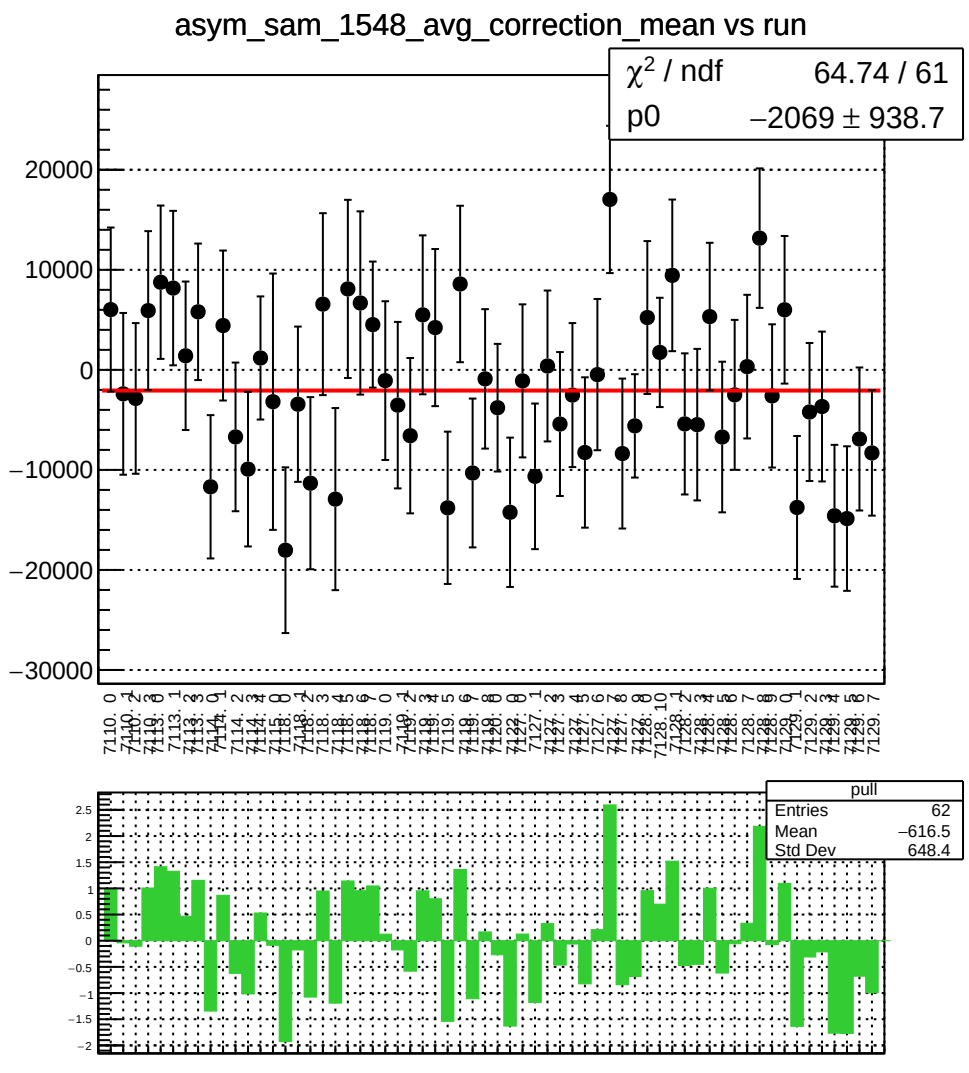

pull1D
Entries 62
Mean 0.00502
Std Dev 1.005

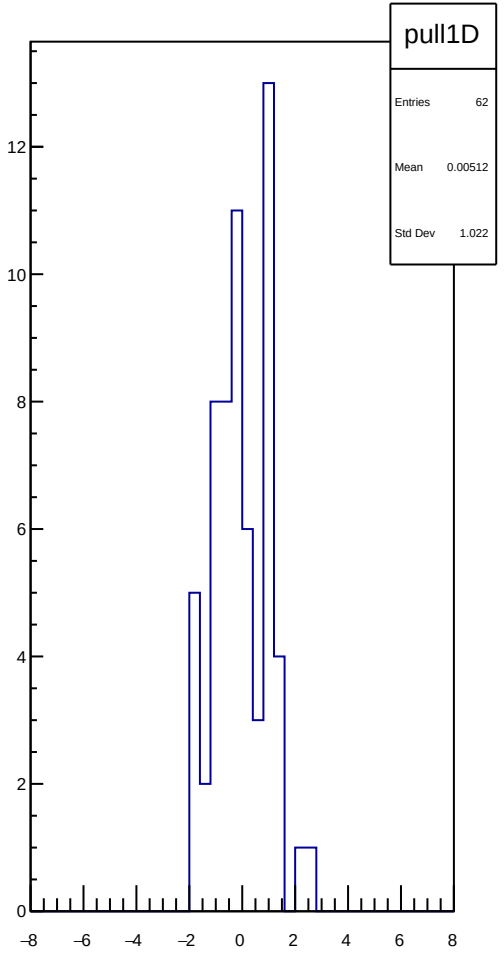

asym_sam_26_48_dd_rms vs run
χ² / ndf 7553 / 61
p0 525.9 ± 0.484
650
600
550
500
450
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

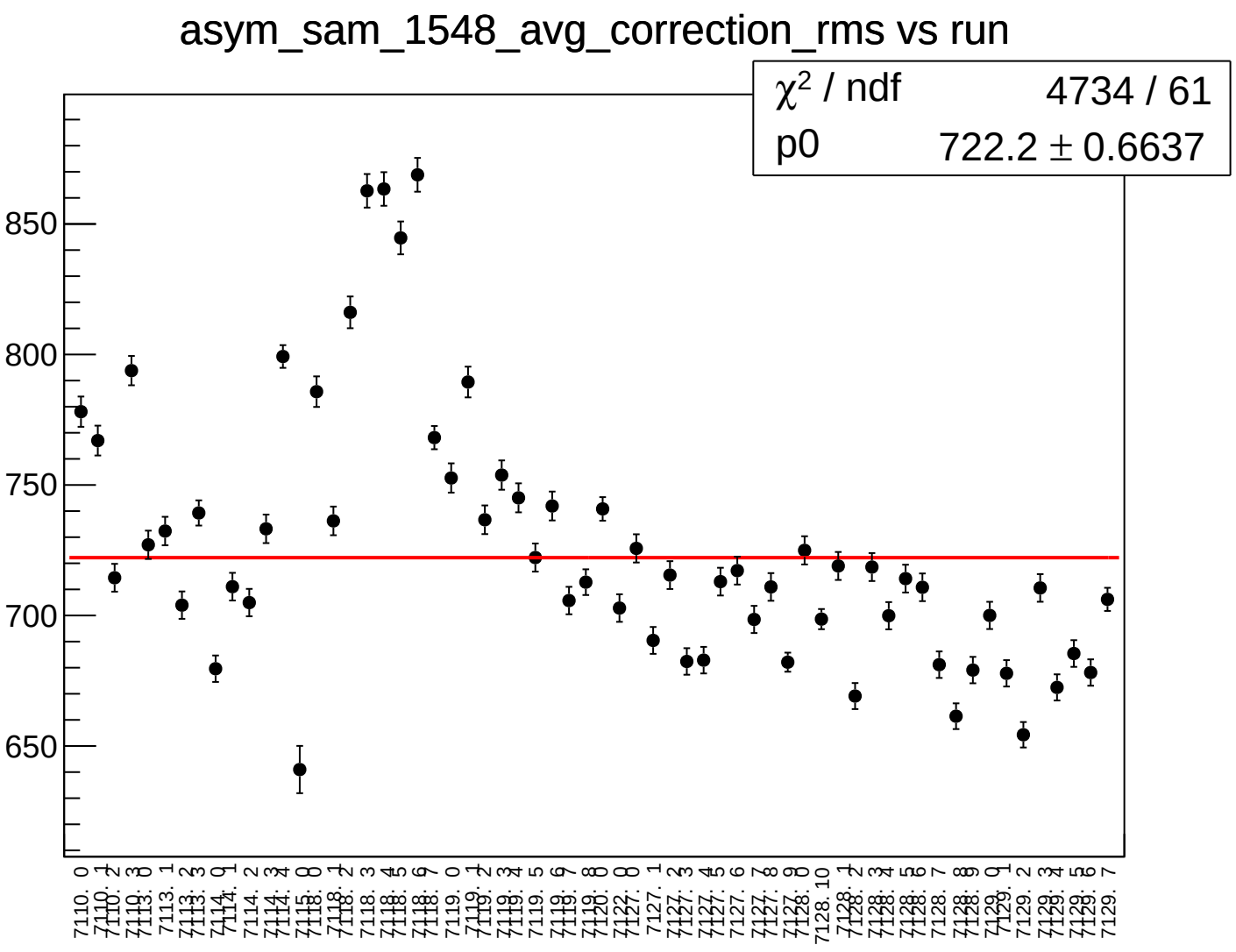

reg_asym_sam_1548_avg_mean vs run
χ^2 / ndf 60.52 / 61
p0 11.49 ± 129.3
pull
Entries 62
Mean −1599
Std Dev 1621

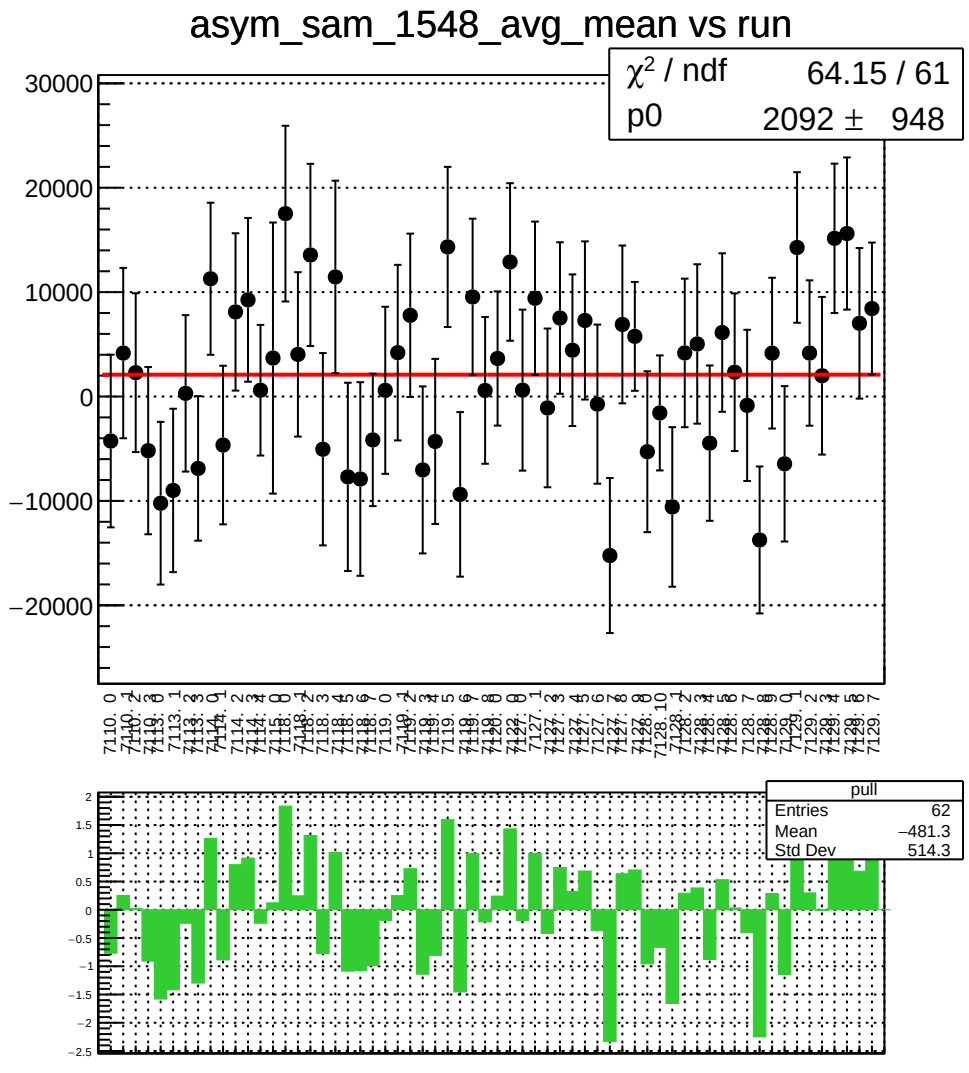

pull1D
Entries 62
Mean 0.001613
Std Dev 0.988

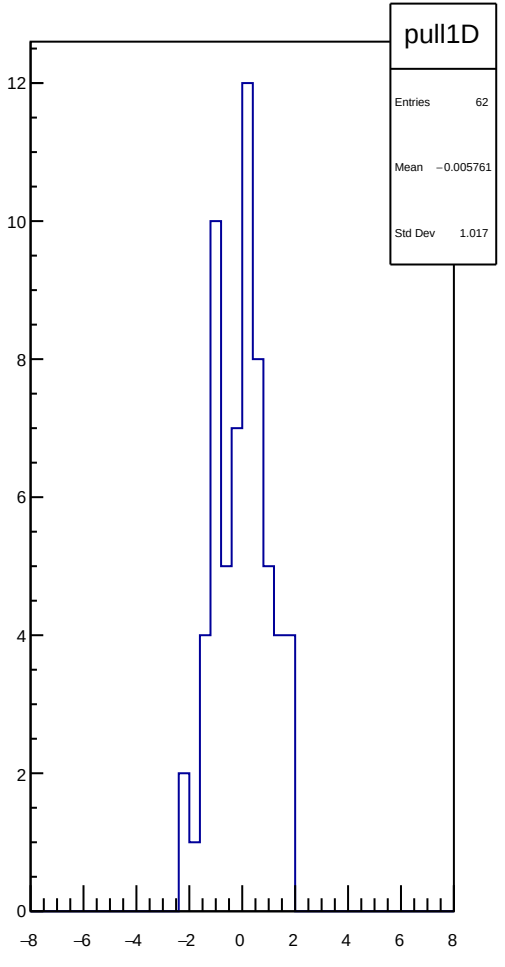

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 2.433e+04 / 61
p0 98.67 ± 0.09145
150
140
130
120
110
100
90

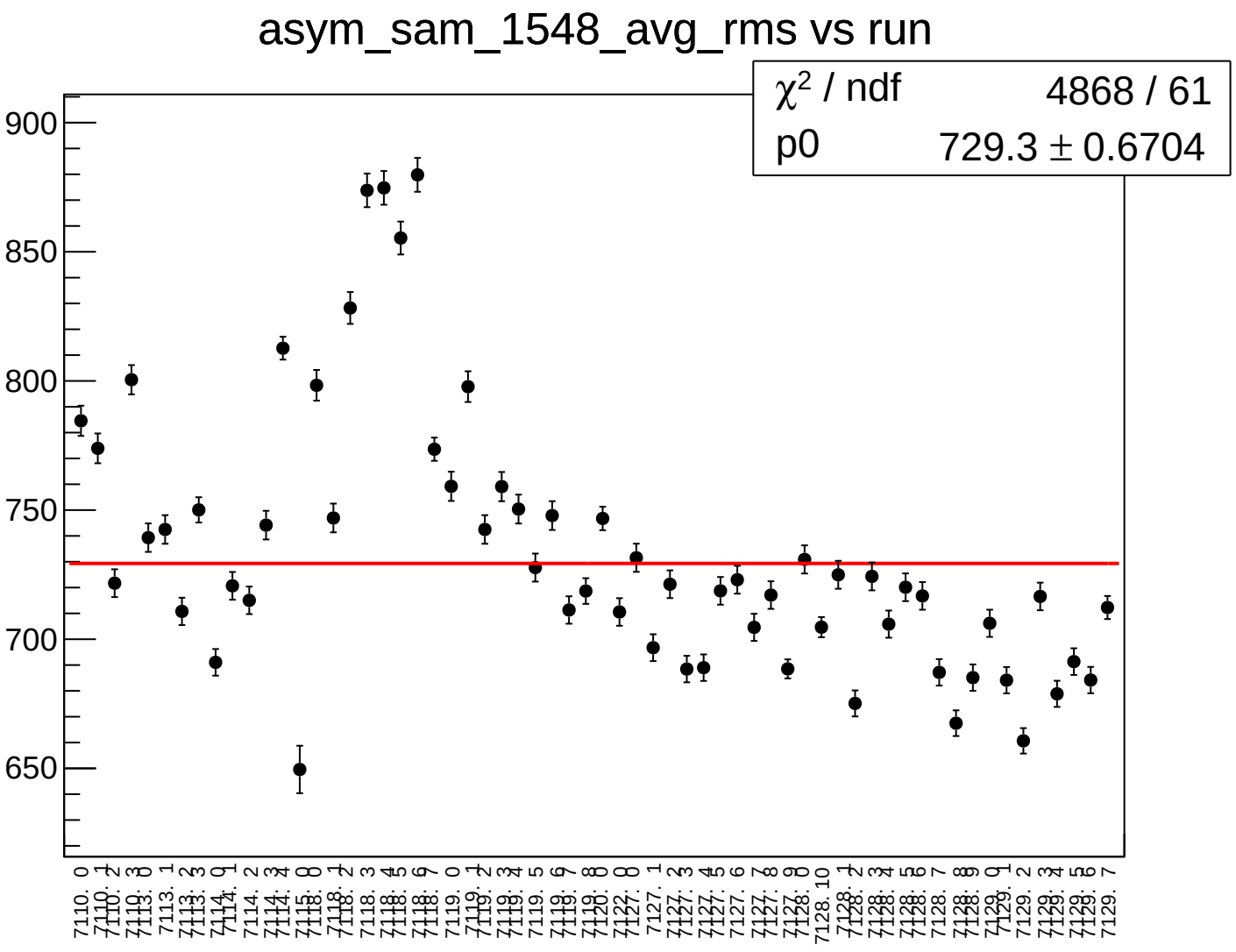

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 64.74 / 61
p0 −2069 ± 938.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 62
Mean −616.5
Std Dev 648.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

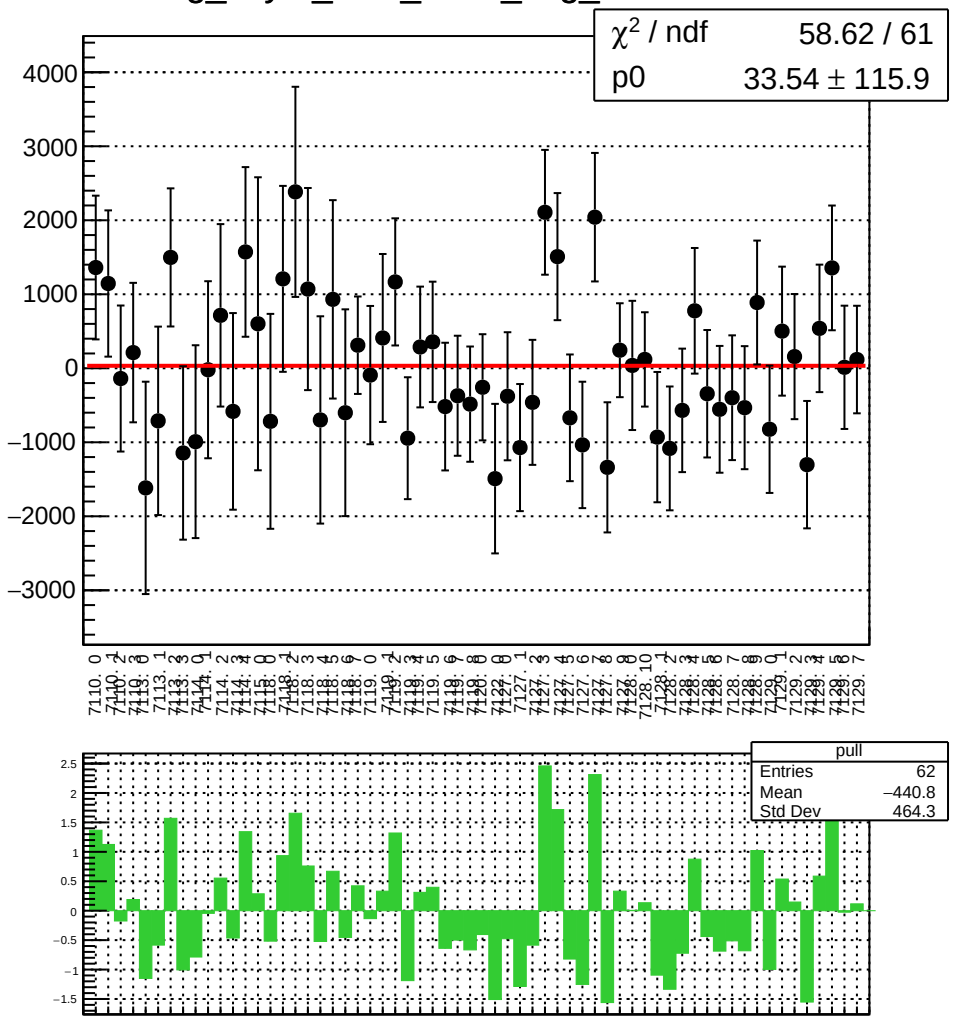

pull1D
Entries 62
Mean 0.00512
Std Dev 1.022
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

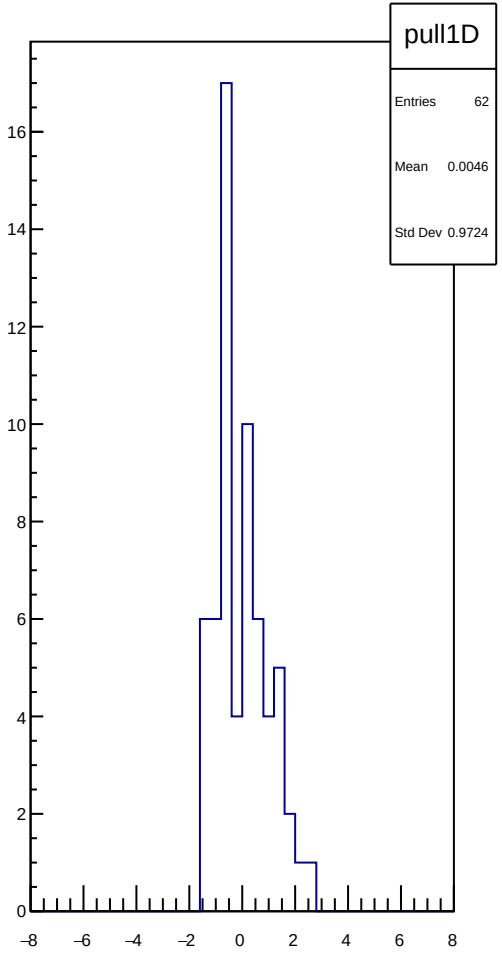

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 4734 / 61
p0 722.2 ± 0.6637
850
800
750
700
650
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

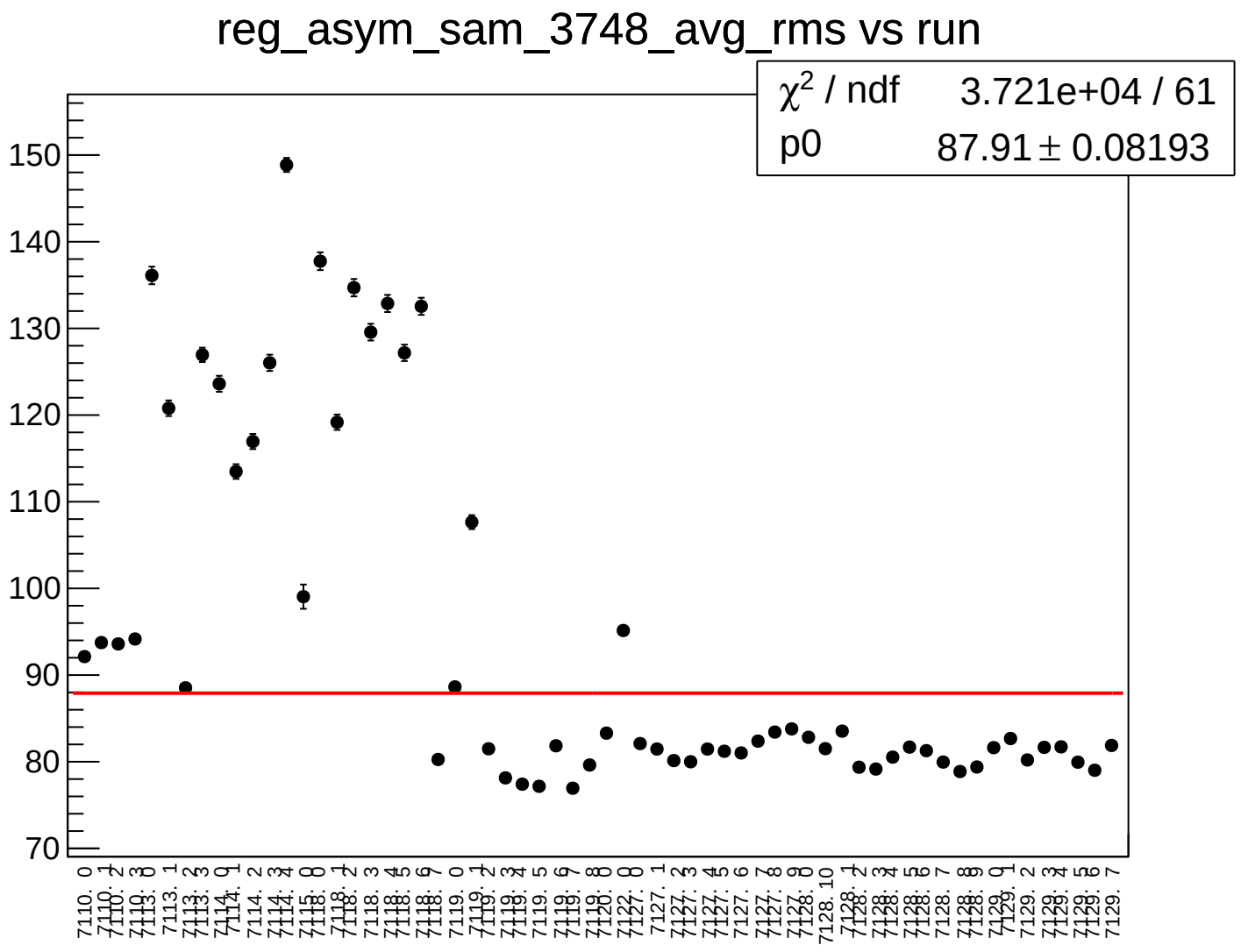

asym_sam_1548_avg_mean vs run
χ² / ndf 64.15 / 61
p0 2092 ± 948
pull
Entries 62
Mean −481.3
Std Dev 514.3

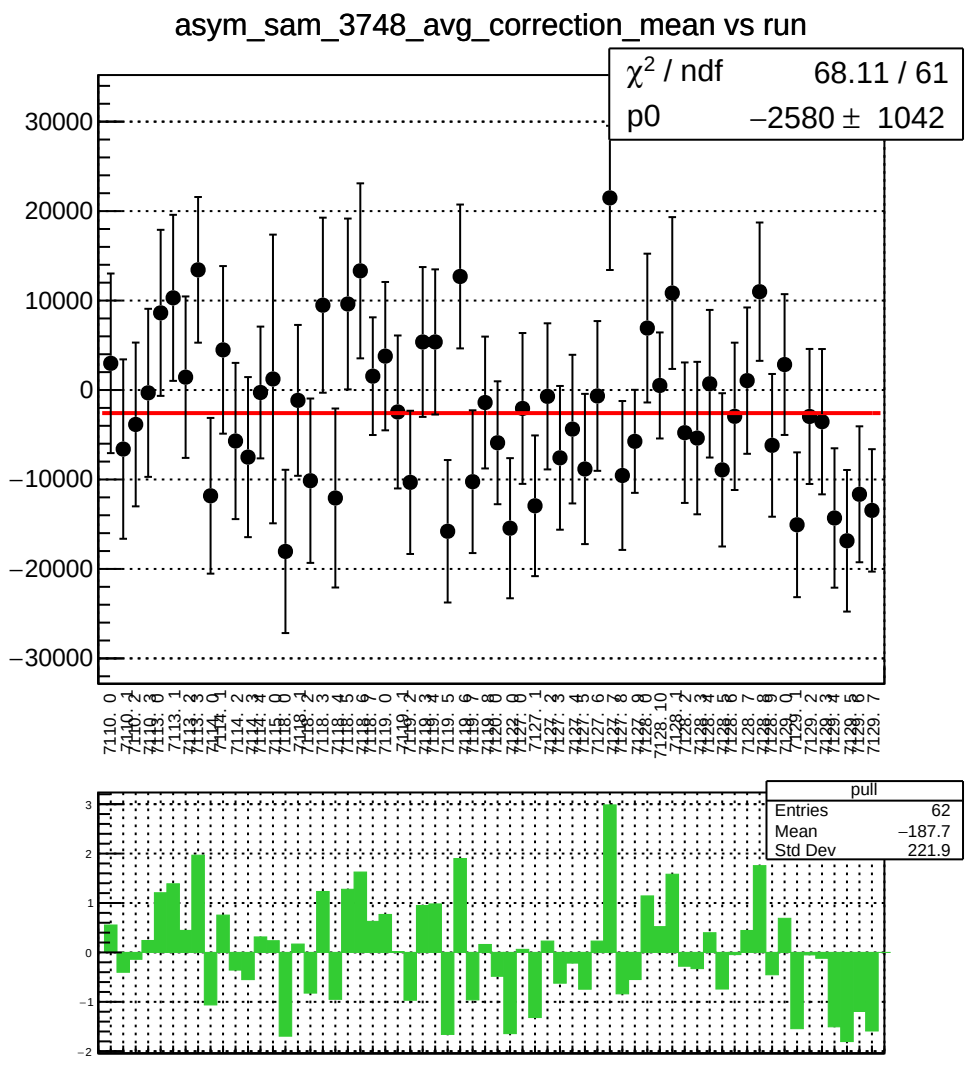

pull1D
Entries 62
Mean −0.005761
Std Dev 1.017

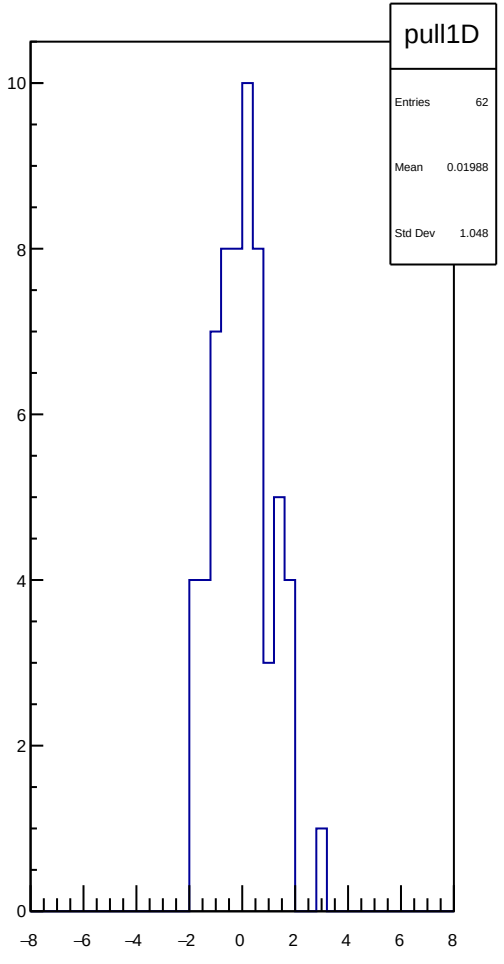

asym_sam_1548_avg_rms vs run
χ² / ndf 4868 / 61
p0 729.3 ± 0.6704
900
850
800
750
700
650

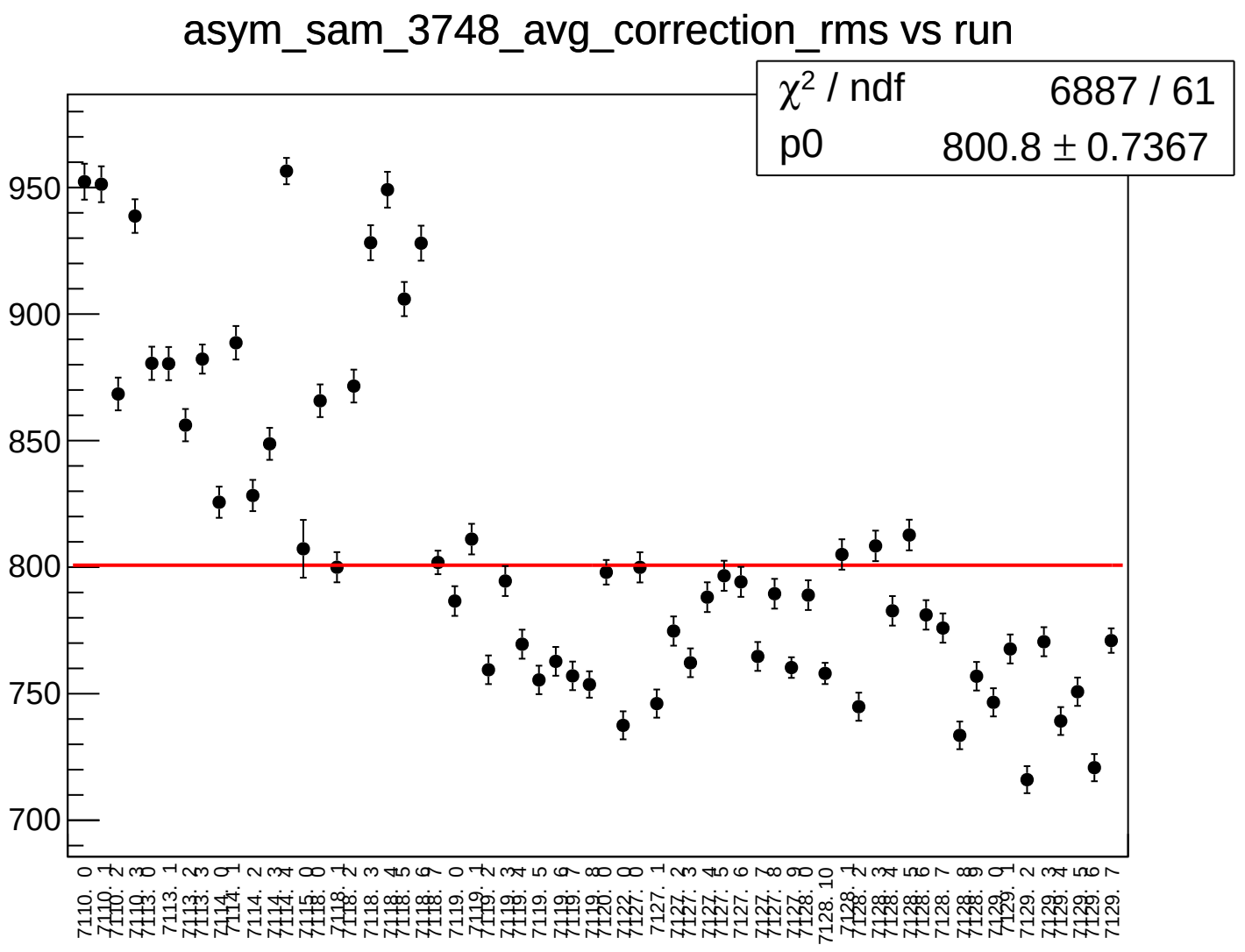

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 58.62 / 61
p0 33.54 ± 115.9
pull
Entries 62
Mean −440.8
Std Dev 464.3

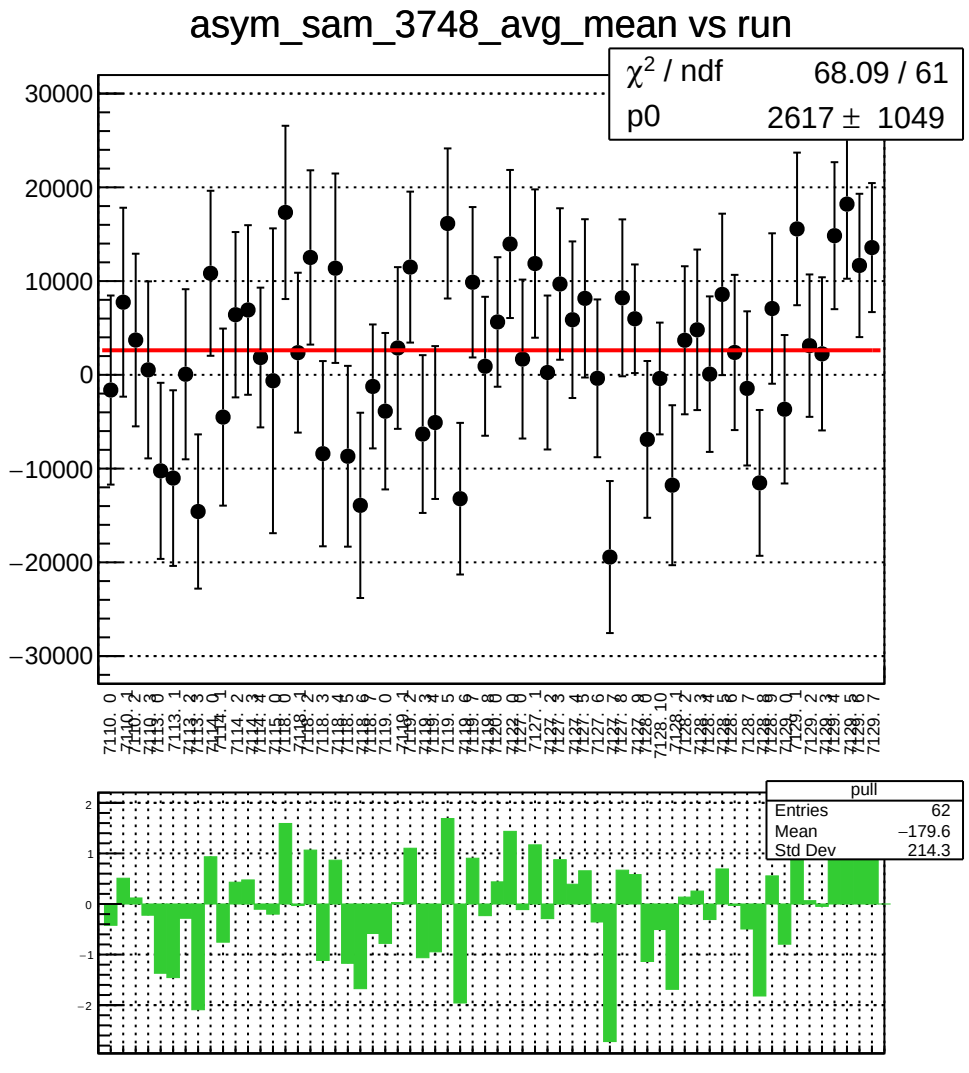

pull1D
Entries 62
Mean 0.0046
Std Dev 0.9724

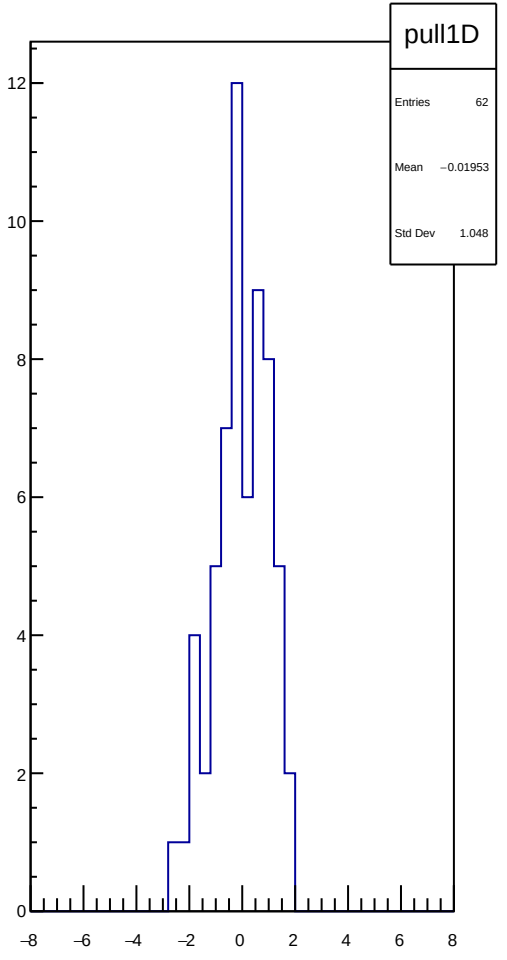

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 3.721e+04 / 61
p0 87.91 ± 0.08193
150
140
130
120
110
100
90
80
70

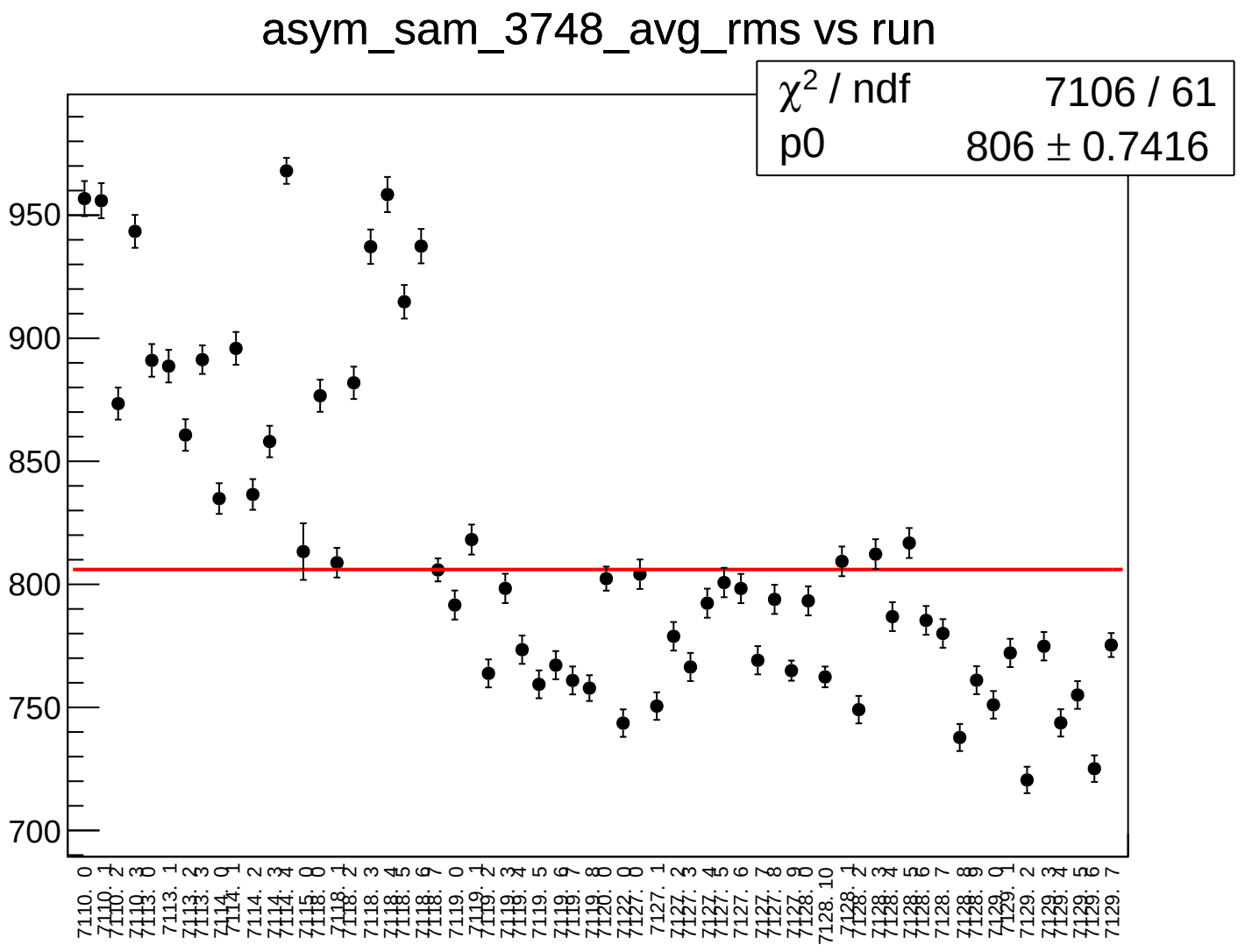

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 68.11 / 61
p0 −2580 ± 1042
pull
Entries 62
Mean −187.7
Std Dev 221.9

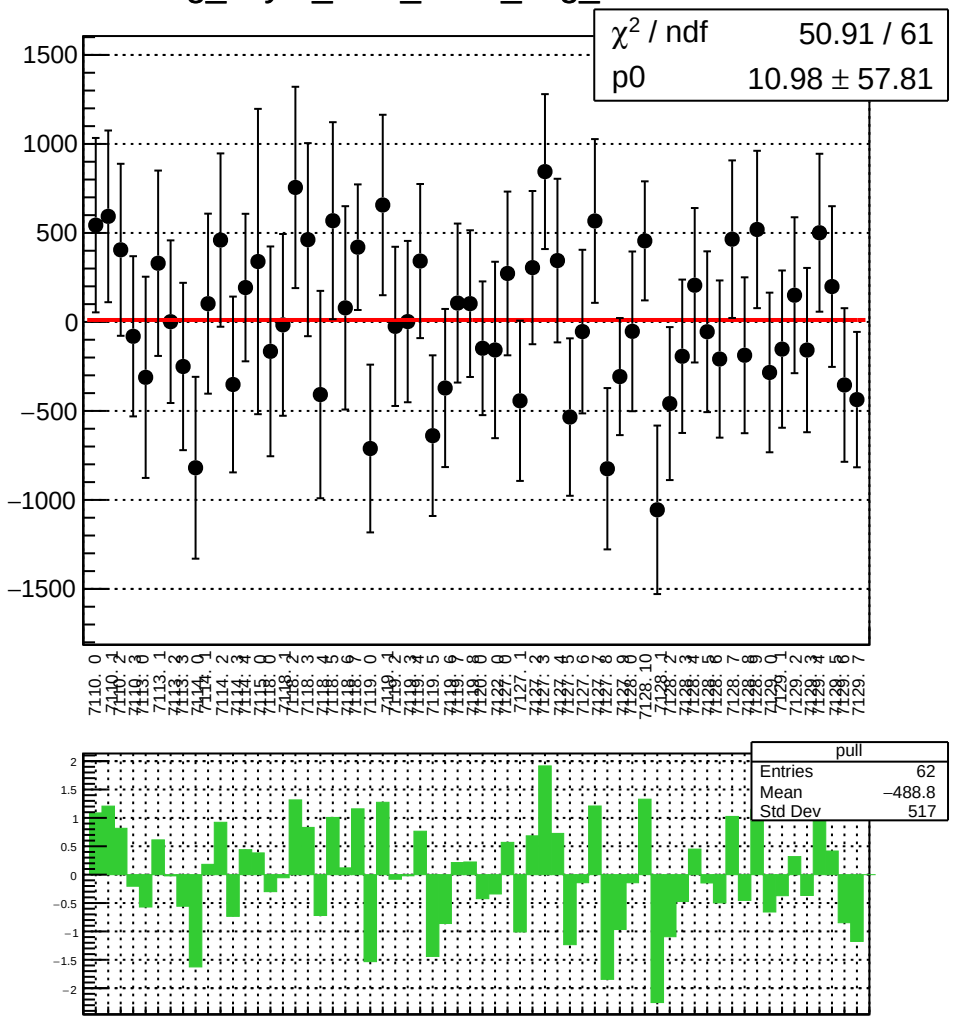

pull1D
Entries 62
Mean 0.01988
Std Dev 1.048

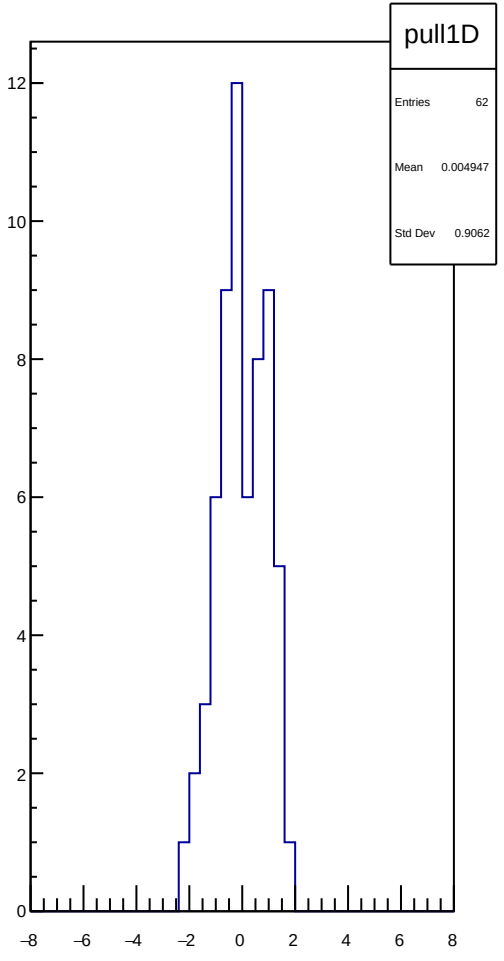

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 6887 / 61
p0 800.8 ± 0.7367
950
900
850
800
750
700

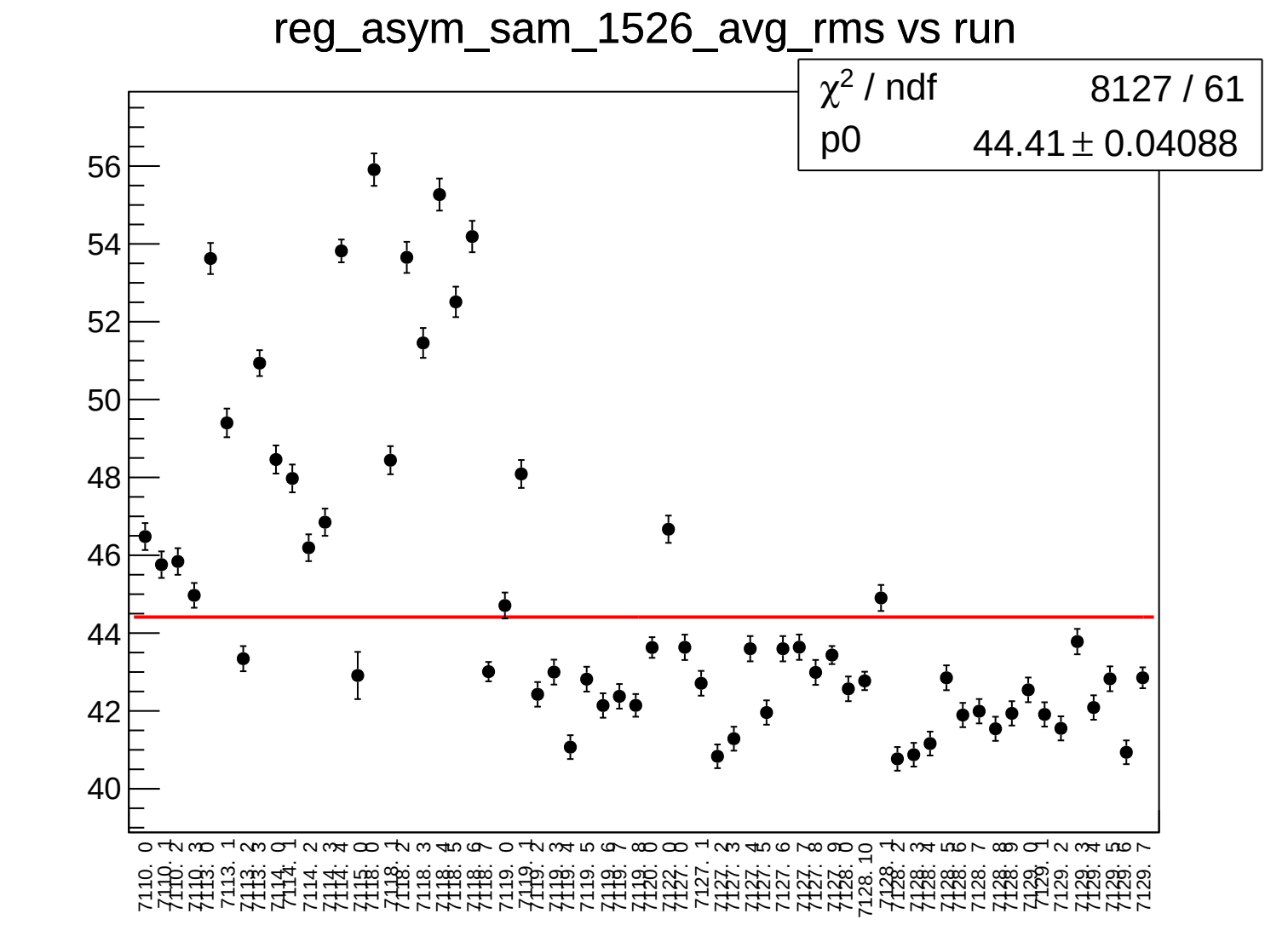

asym_sam_3748_avg_mean vs run
χ² / ndf 68.09 / 61
p0 2617 ± 1049
pull
Entries 62
Mean −179.6
Std Dev 214.3

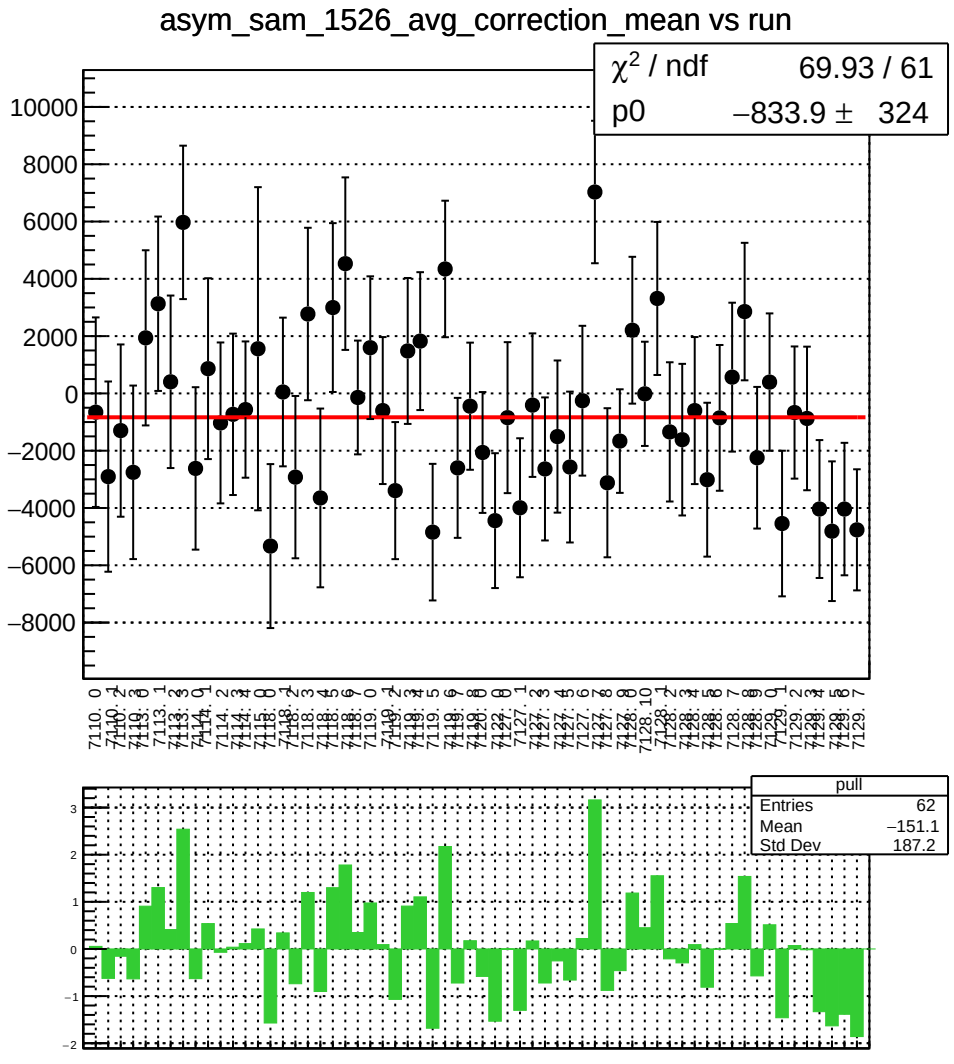

pull1D
Entries 62
Mean −0.01953
Std Dev 1.048

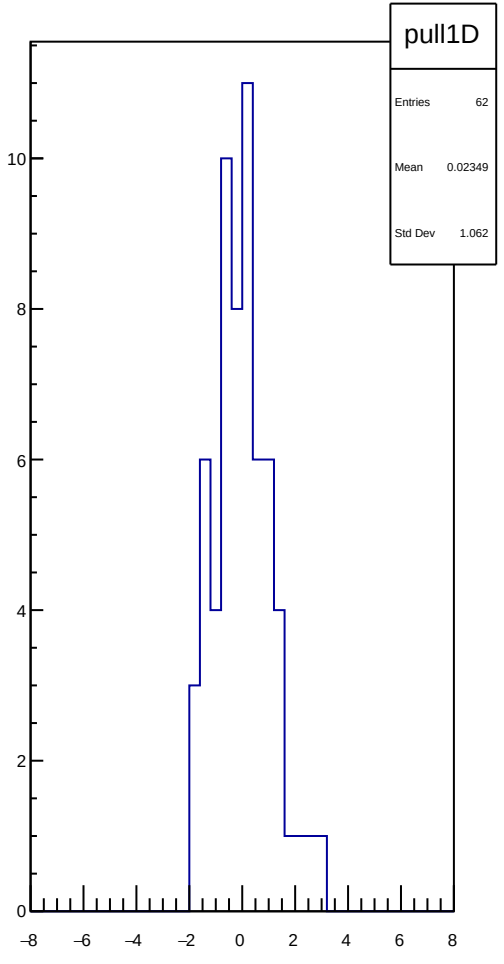

asym_sam_3748_avg_rms vs run
χ^2 / ndf 7106 / 61
p0 806 ± 0.7416
950
900
850
800
750
700

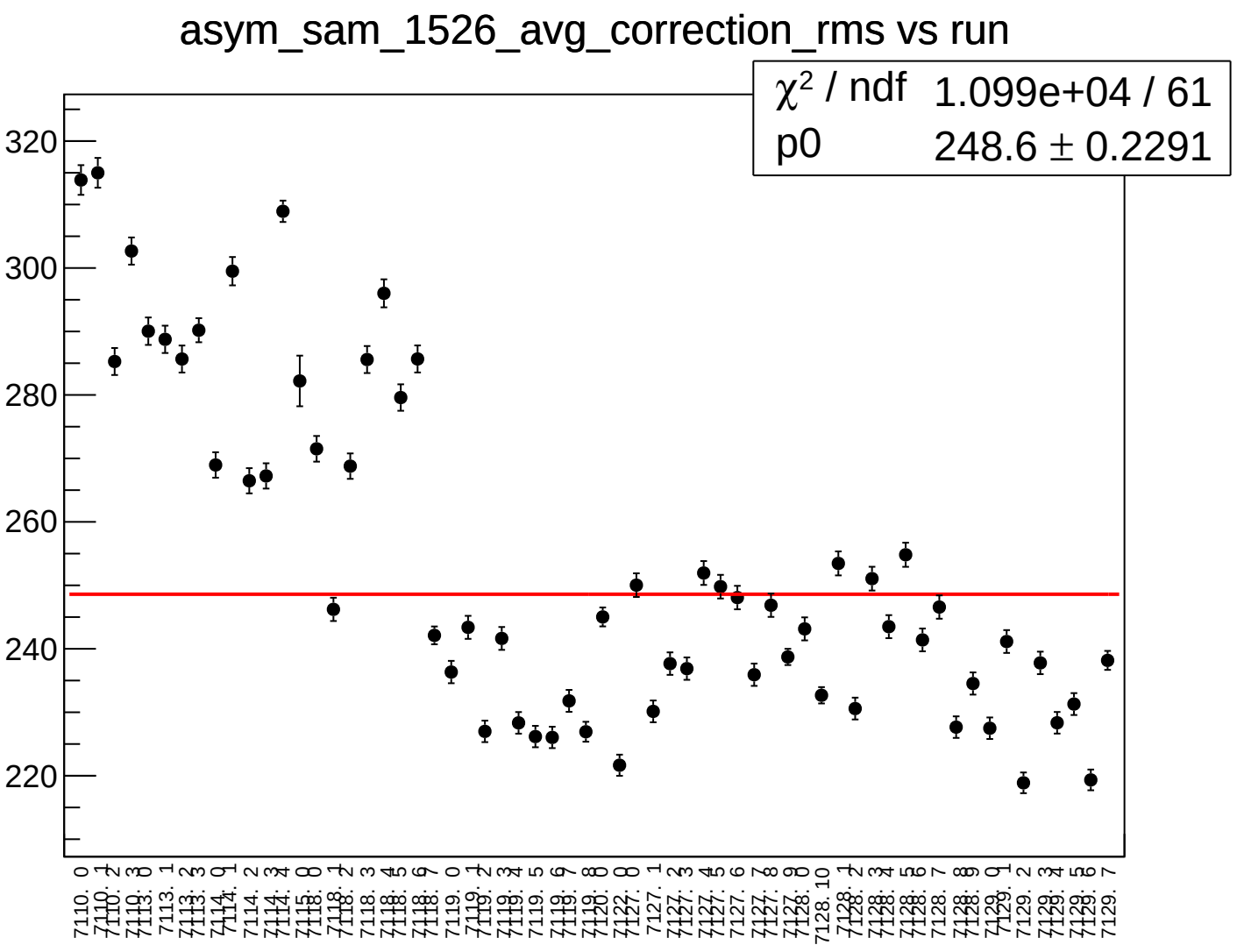

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 50.91 / 61
p0 10.98 ± 57.81
pull
Entries 62
Mean −488.8
Std Dev 517

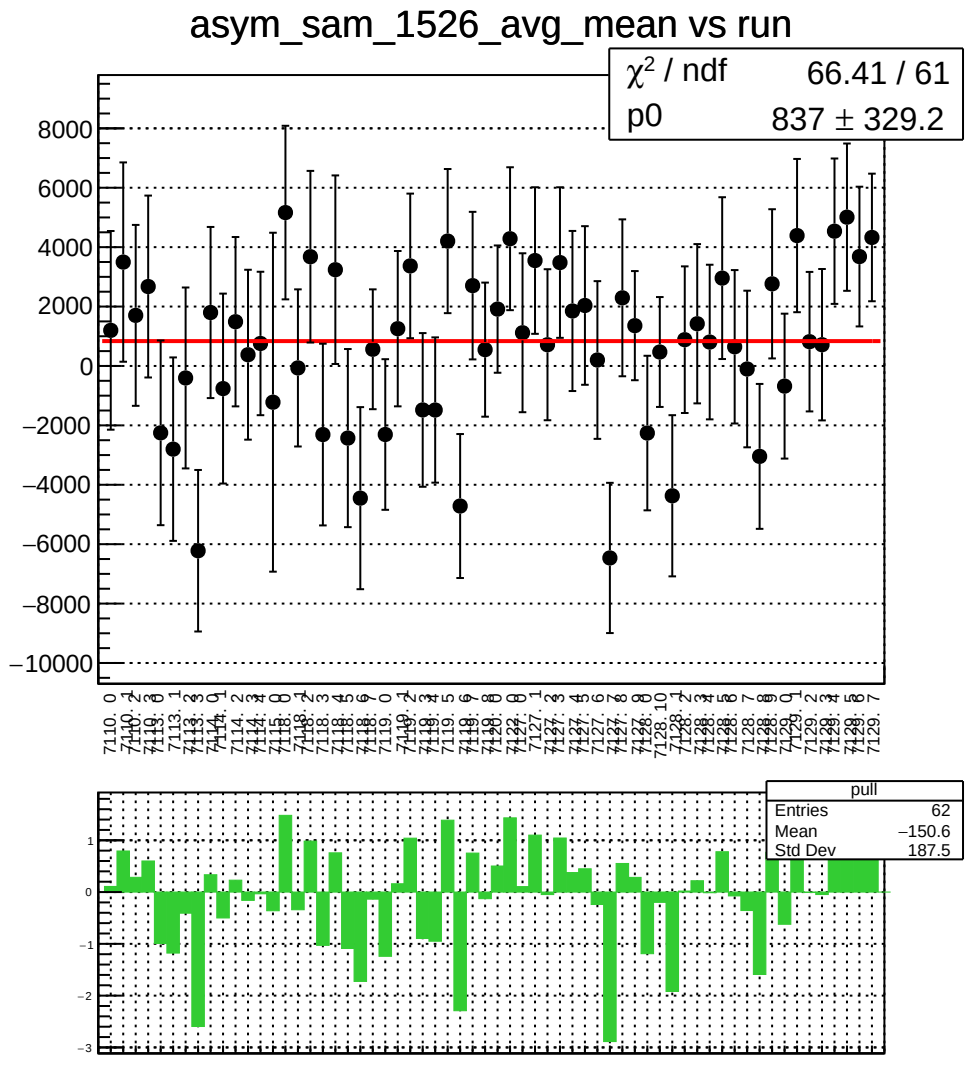

pull1D
Entries 62
Mean 0.004947
Std Dev 0.9062

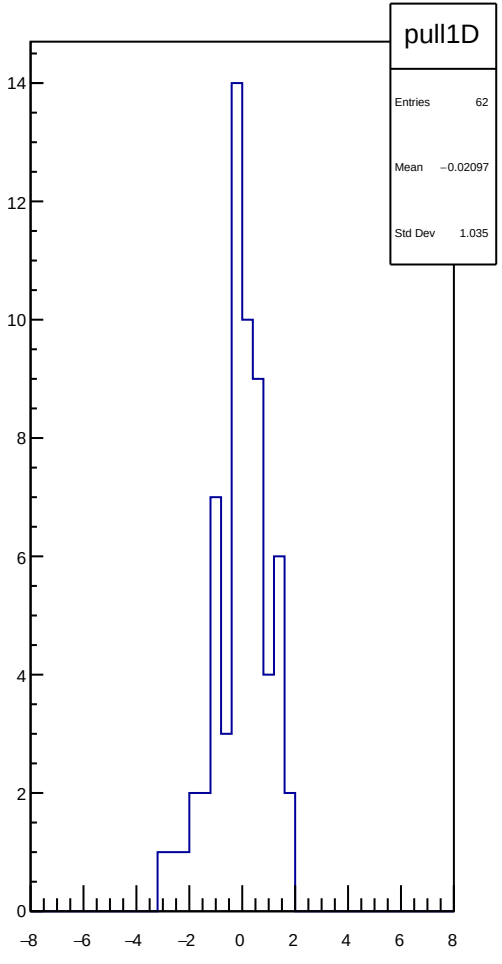

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 8127 / 61
p0 44.41 ± 0.04088
56
54
52
50
48
46
44
42
40

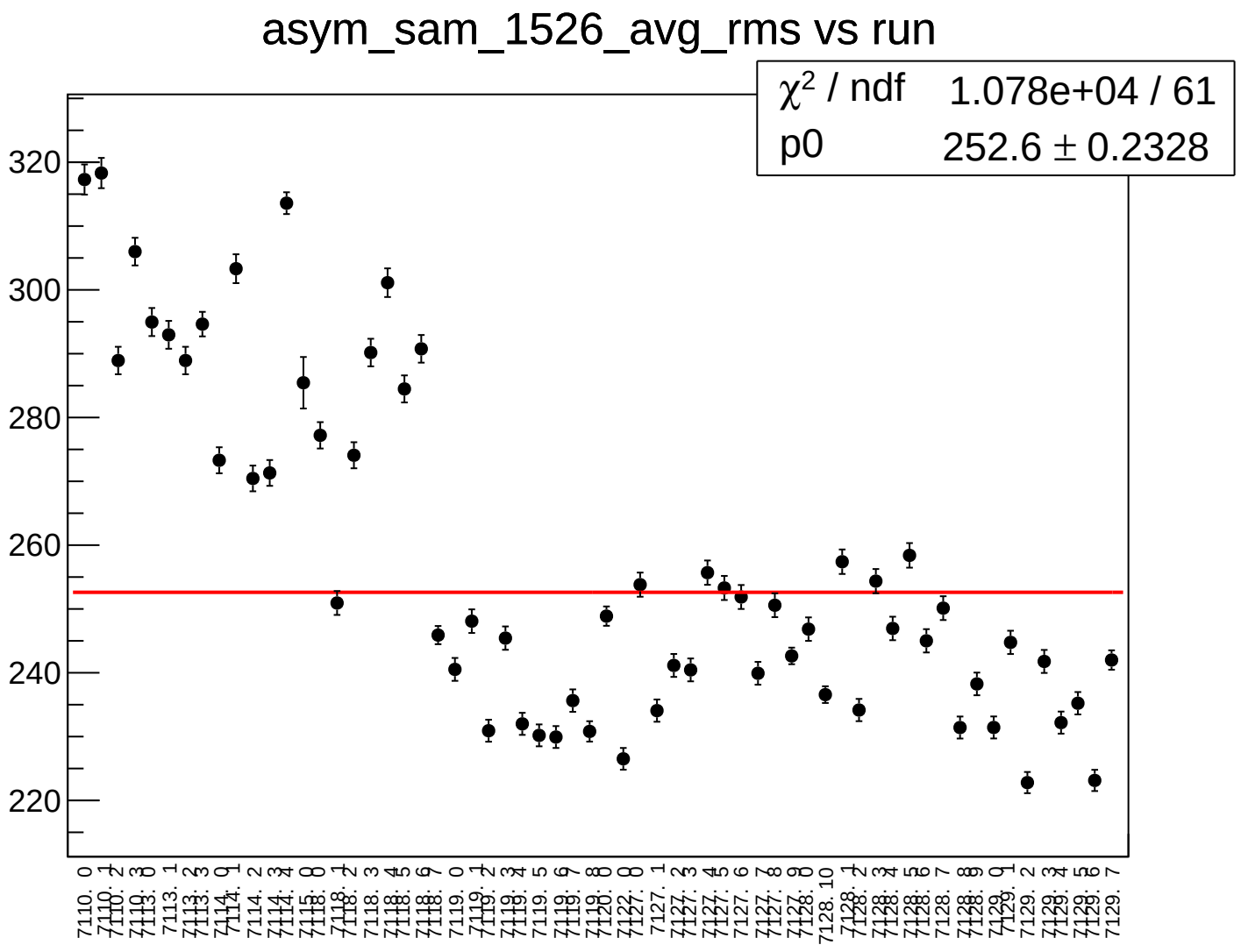

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 69.93 / 61
p0 −833.9 ± 324
pull
Entries 62
Mean −151.1
Std Dev 187.2

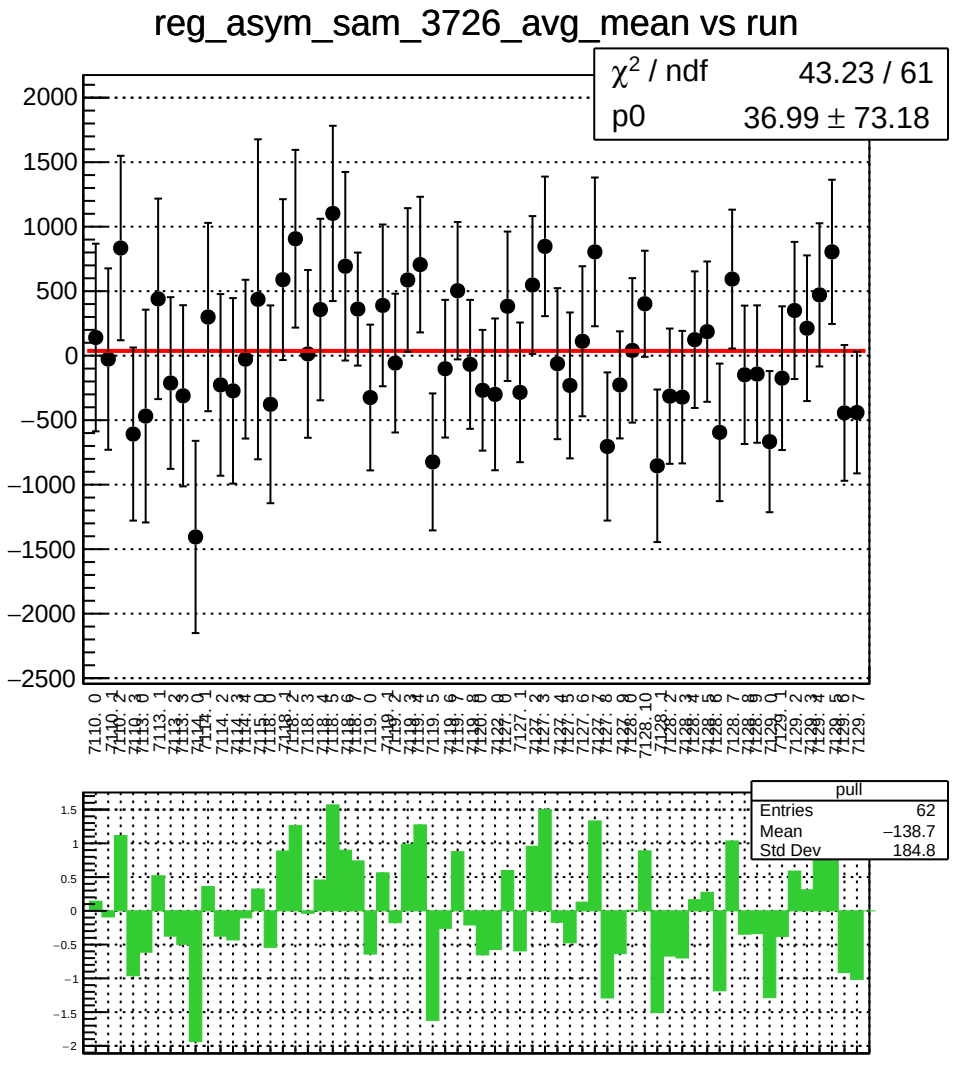

pull1D
Entries 62
Mean 0.02349
Std Dev 1.062

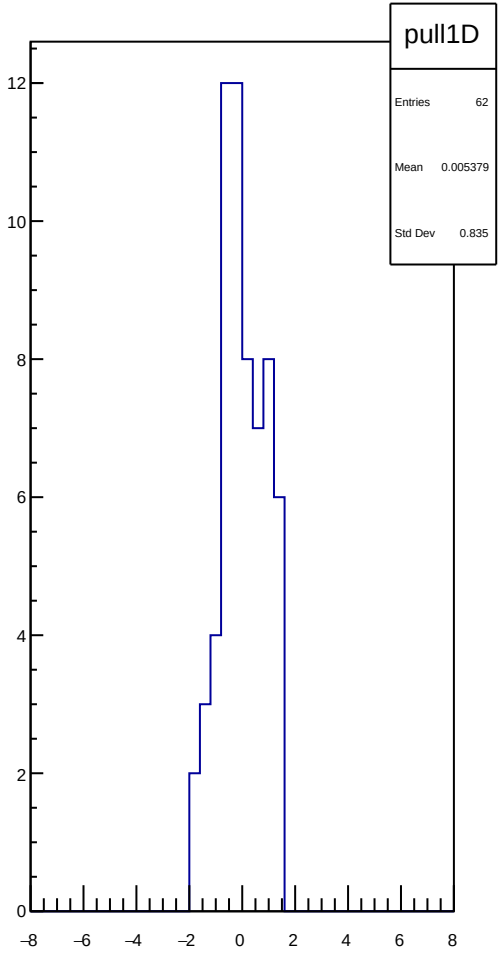

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 1.099e+04 / 61
p0 248.6 ± 0.2291
320
300
280
260
240
220

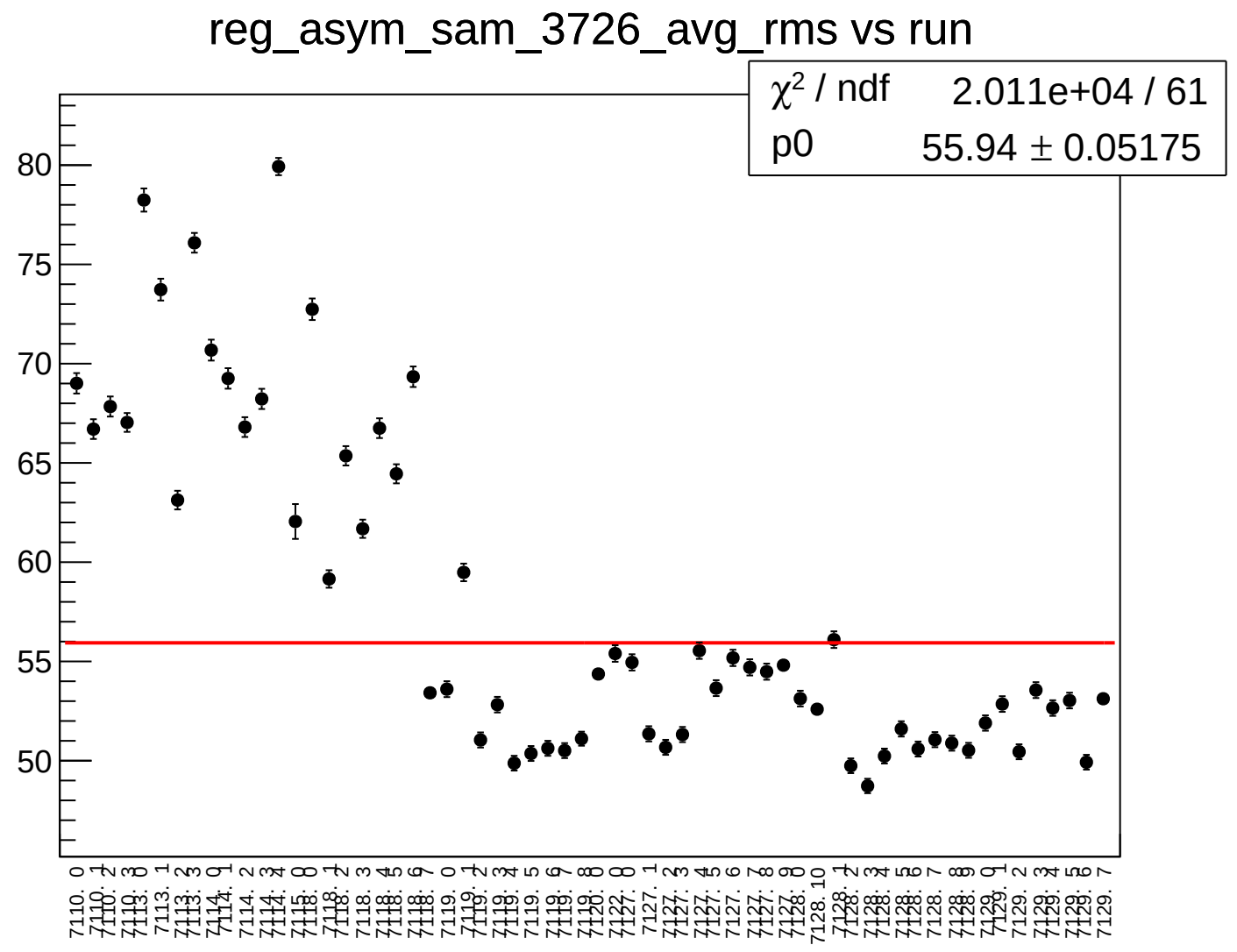

asym_sam_1526_avg_mean vs run
χ² / ndf 66.41 / 61
p0 837 ± 329.2
pull
Entries 62
Mean −150.6
Std Dev 187.5

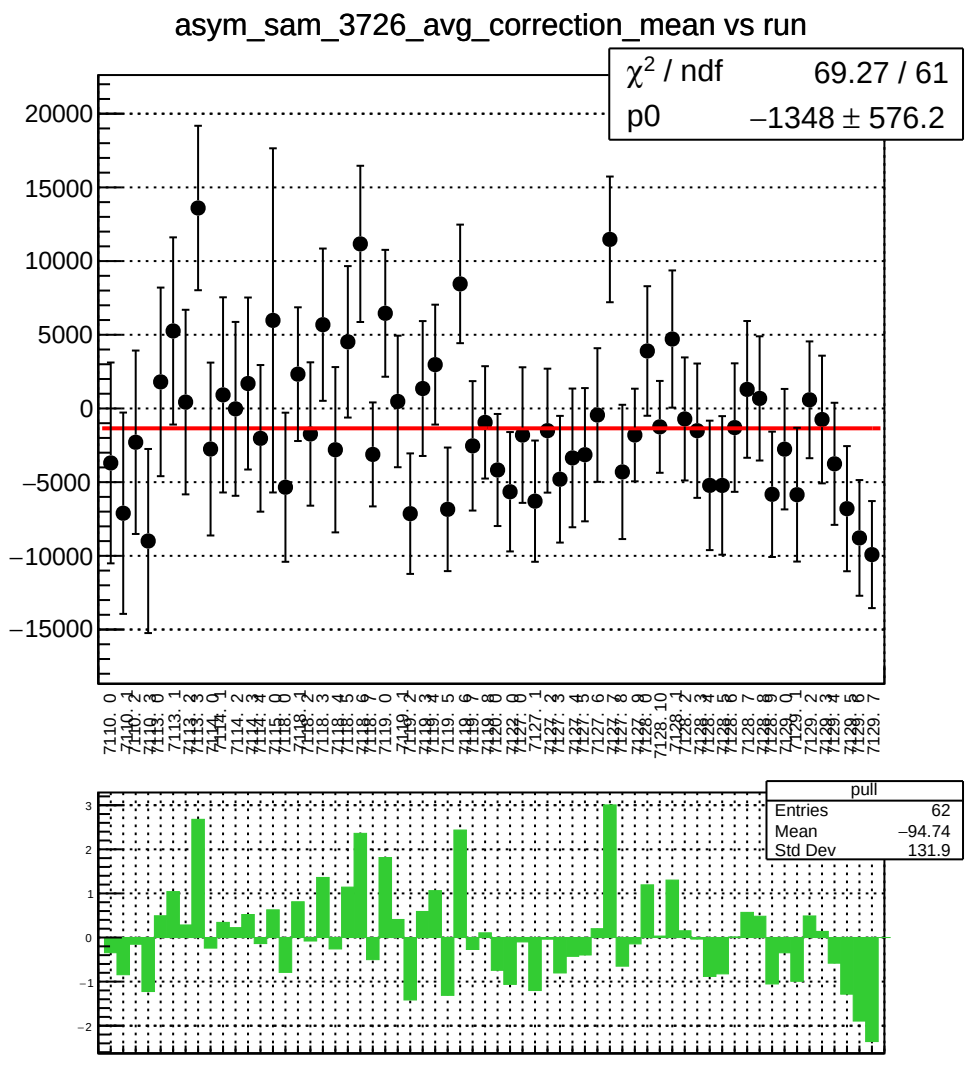

pull1D
Entries 62
Mean −0.02097
Std Dev 1.035

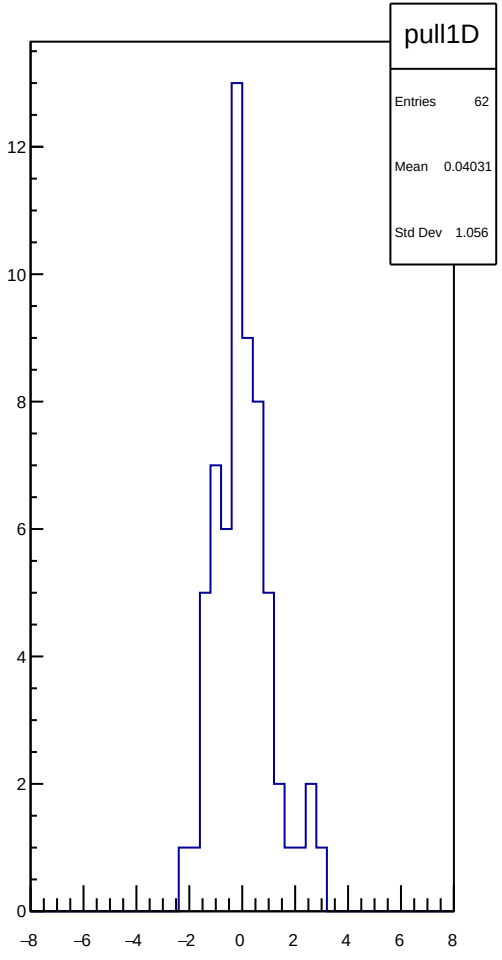

asym_sam_1526_avg_rms vs run
χ² / ndf 1.078e+04 / 61
p0 252.6 ± 0.2328
320
300
280
260
240
220

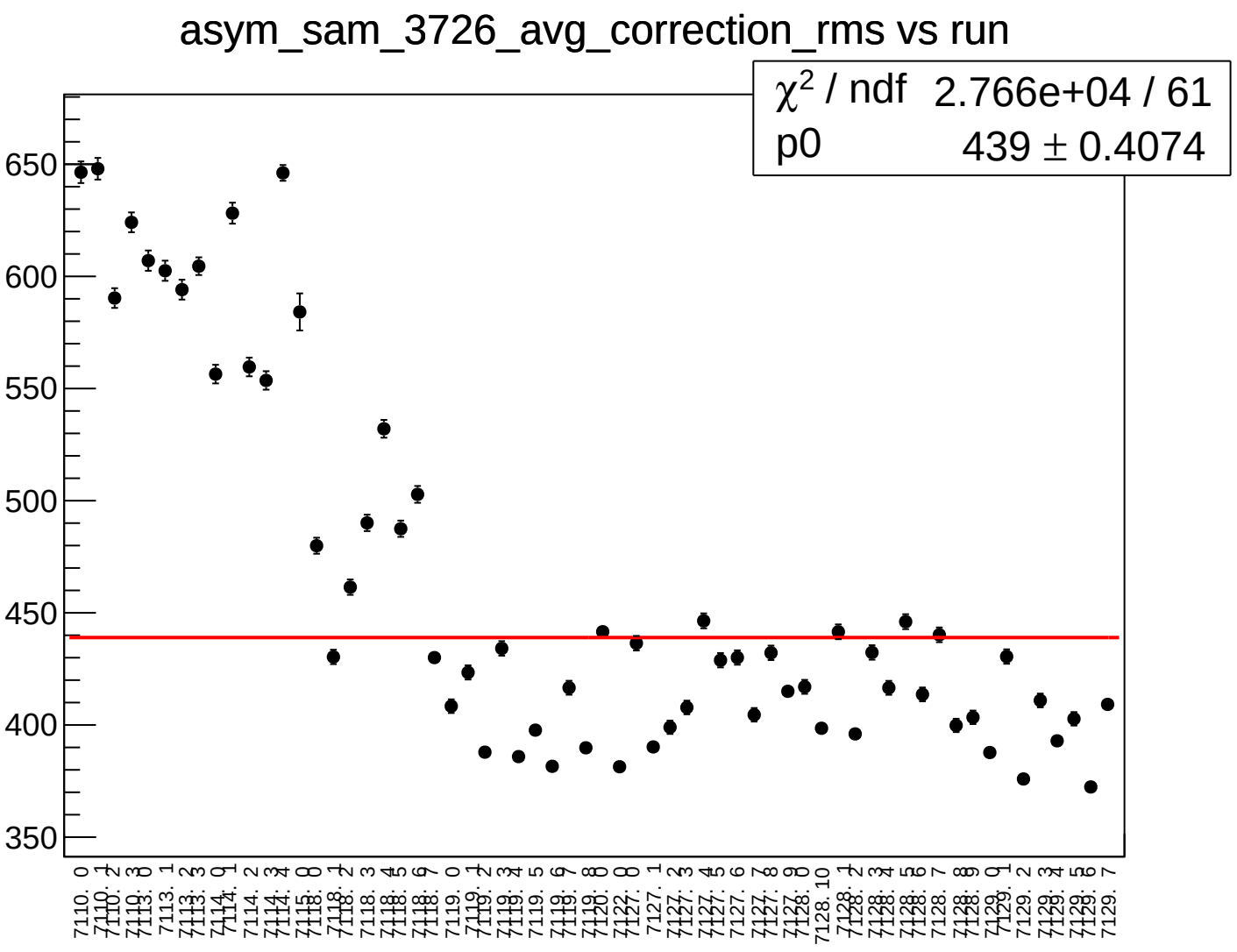

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 43.23 / 61
p0 36.99 ± 73.18
pull
Entries 62
Mean −138.7
Std Dev 184.8

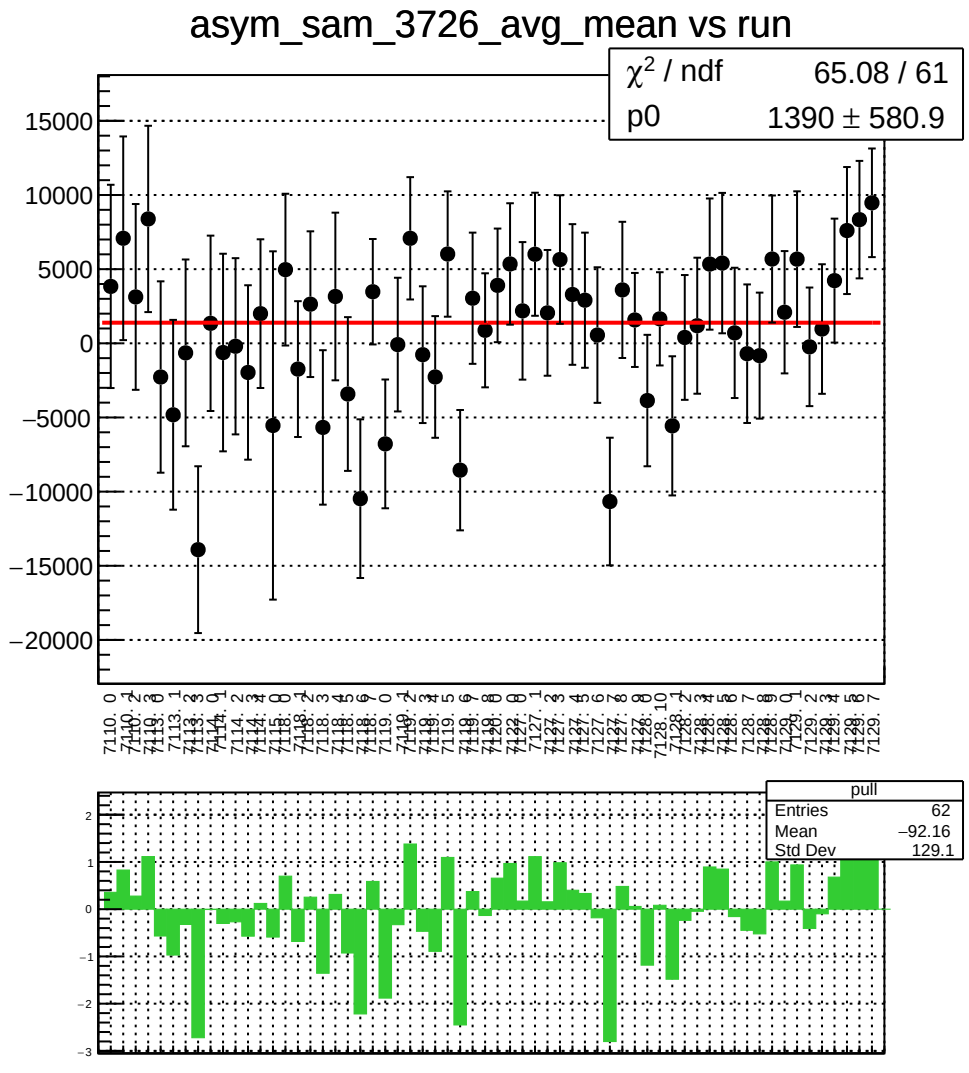

pull1D
Entries 62
Mean 0.005379
Std Dev 0.835

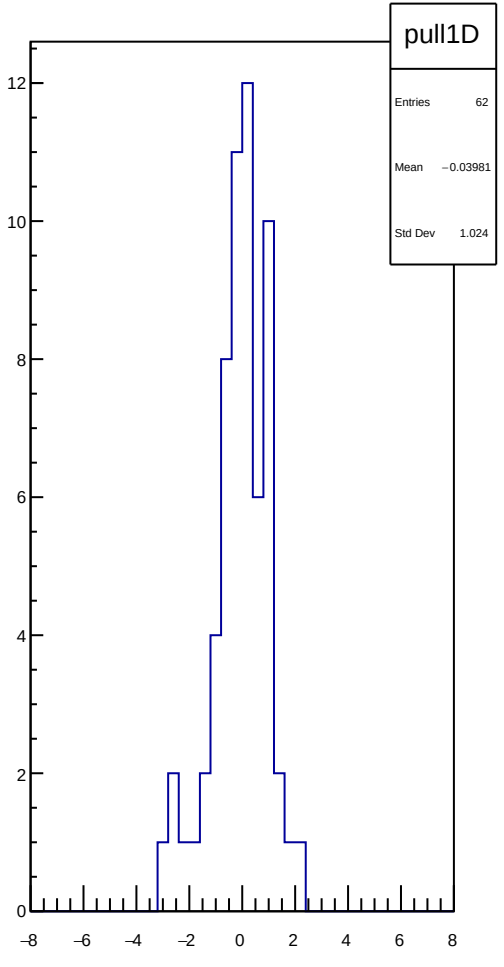

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 2.011e+04 / 61
p0 55.94 ± 0.05175
80
75
70
65
60
55
50

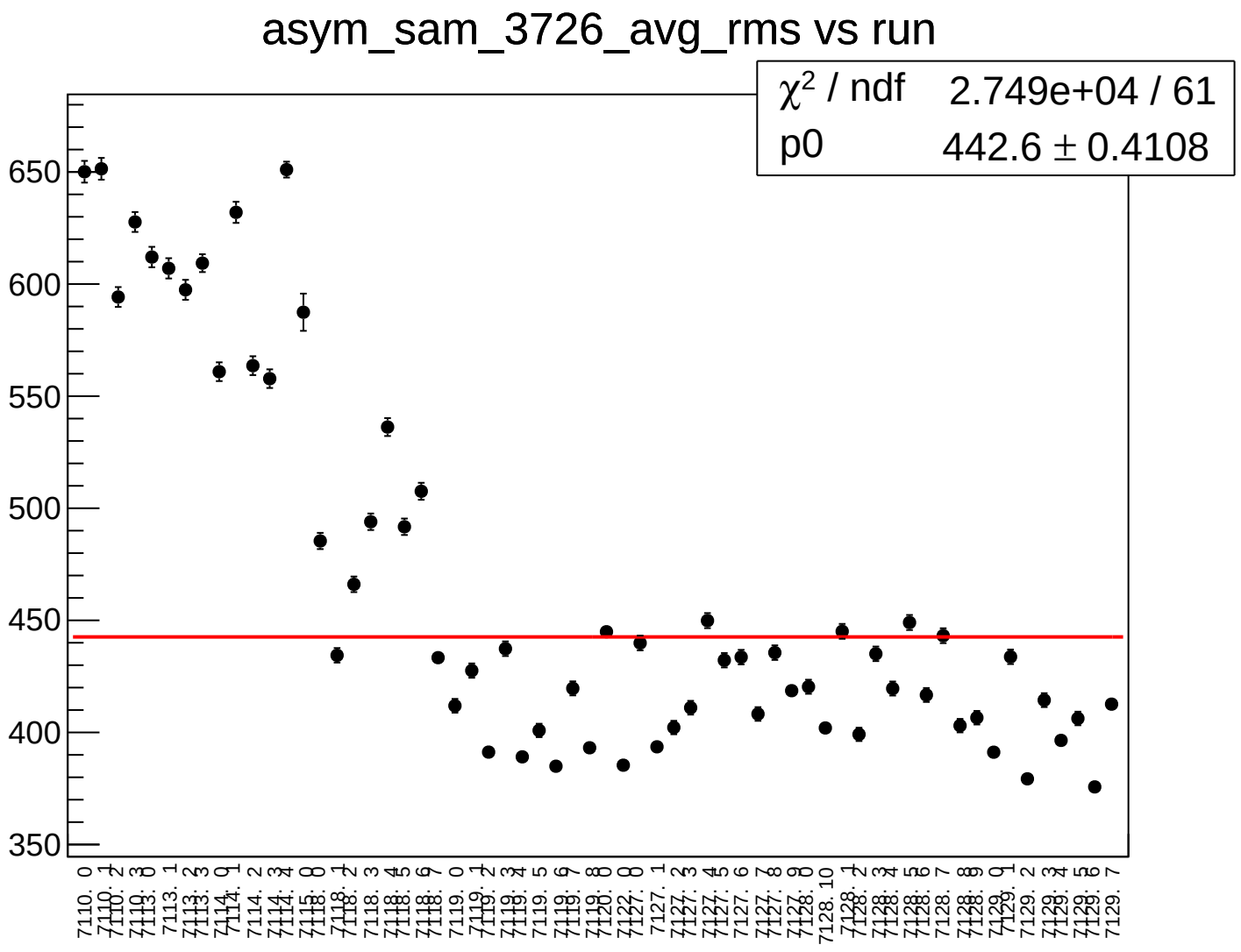

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 69.27 / 61
p0 −1348 ± 576.2
pull
Entries 62
Mean −94.74
Std Dev 131.9

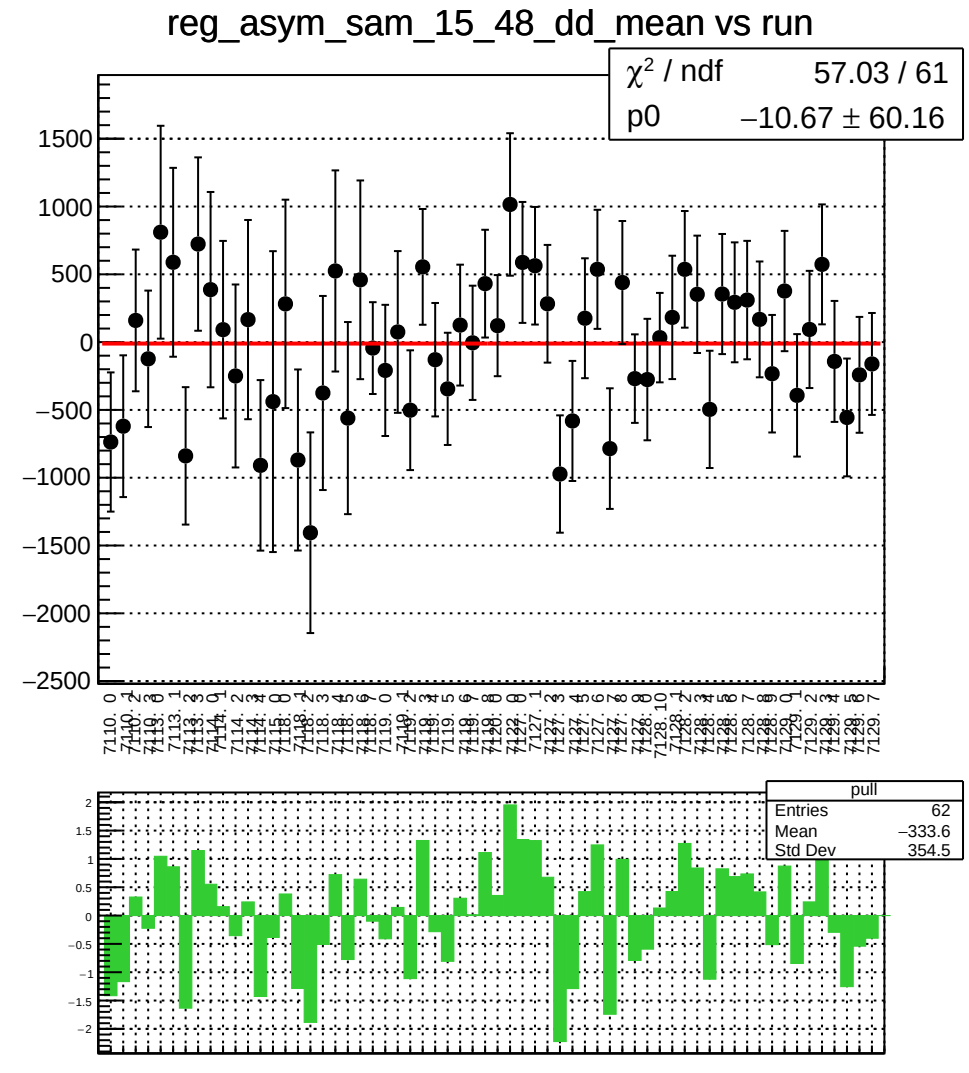

pull1D
Entries 62
Mean 0.04031
Std Dev 1.056

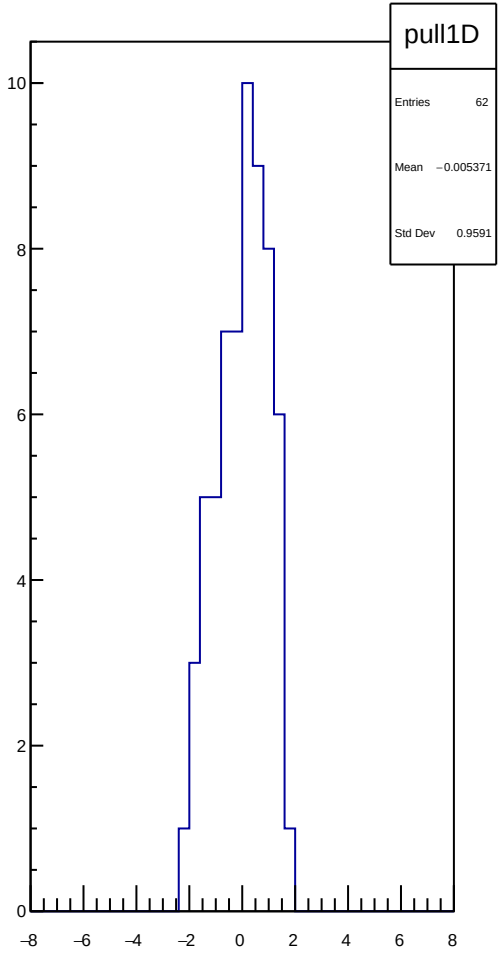

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 2.766e+04 / 61
p0 439 ± 0.4074
650
600
550
500
450
400
350
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

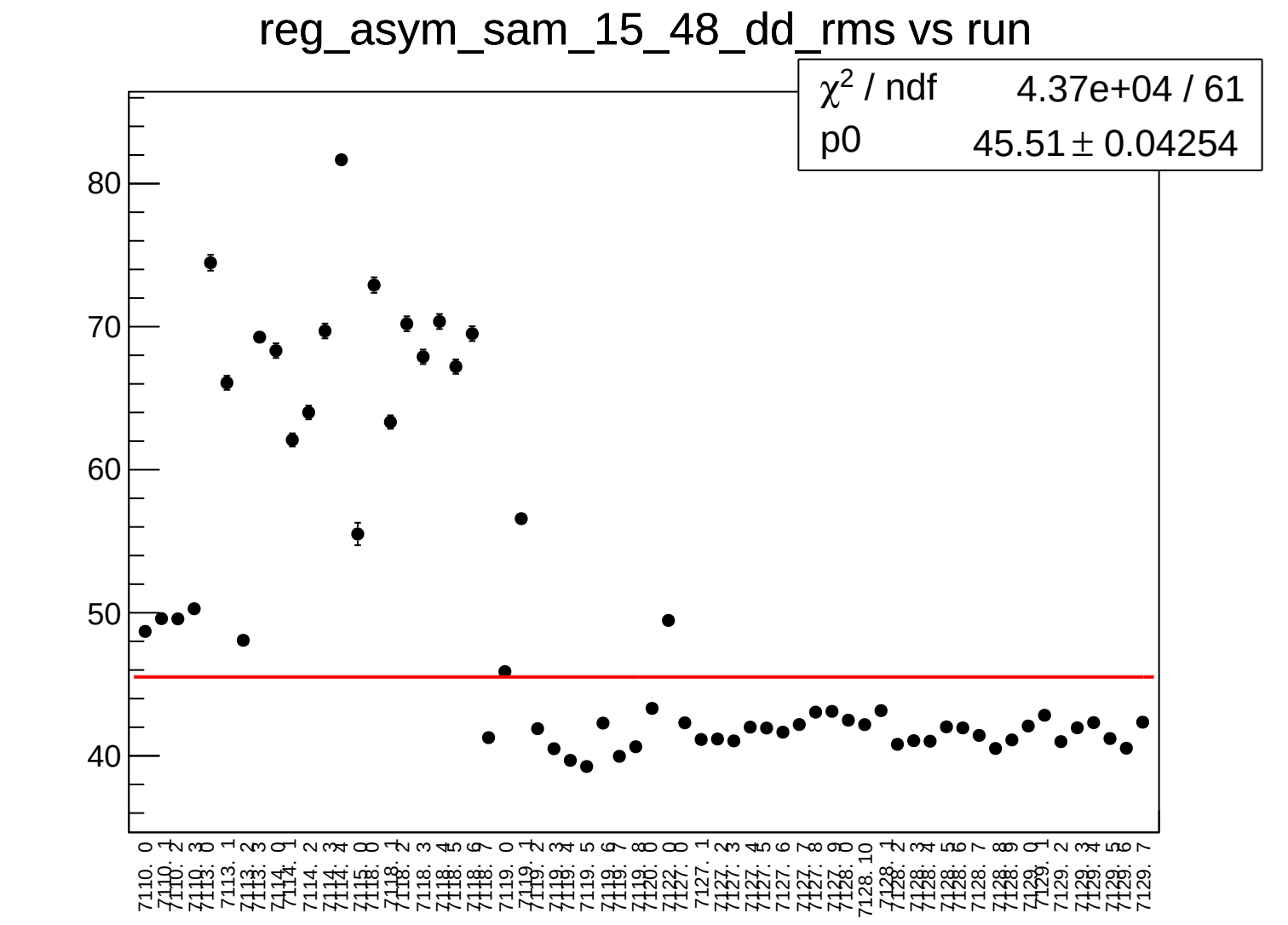

asym_sam_3726_avg_mean vs run
χ² / ndf 65.08 / 61
p0 1390 ± 580.9
pull
Entries 62
Mean −92.16
Std Dev 129.1

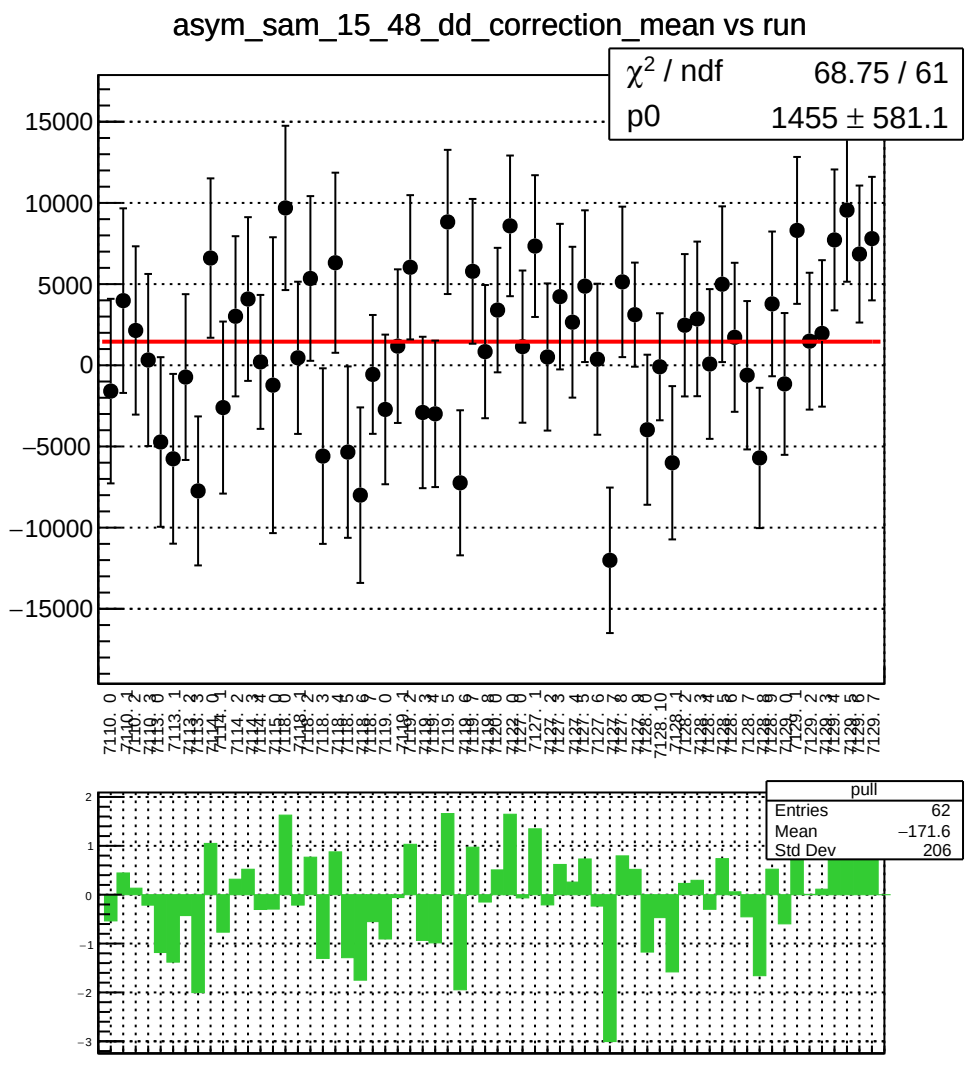

pull1D
Entries 62
Mean −0.03981
Std Dev 1.024

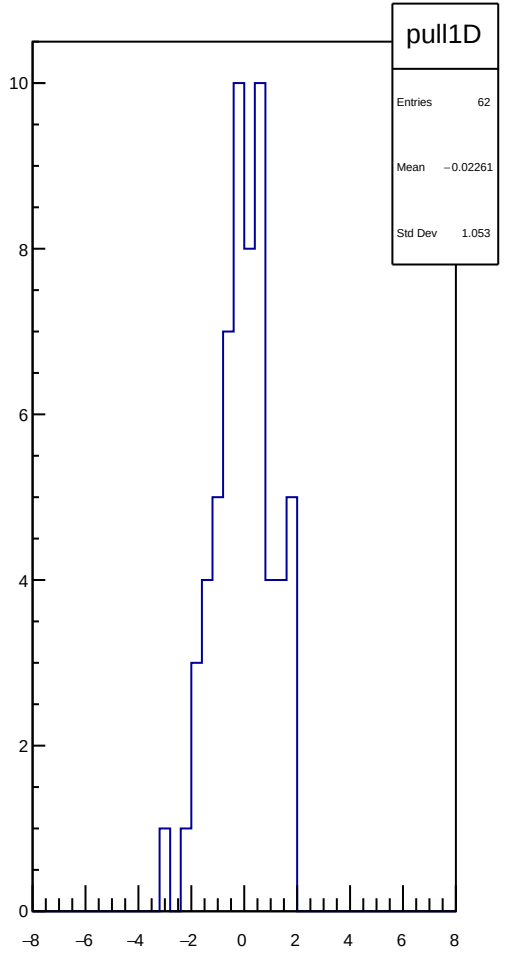

asym_sam_3726_avg_rms vs run
χ² / ndf 2.749e+04 / 61
p0 442.6 ± 0.4108
650
600
550
500
450
400
350

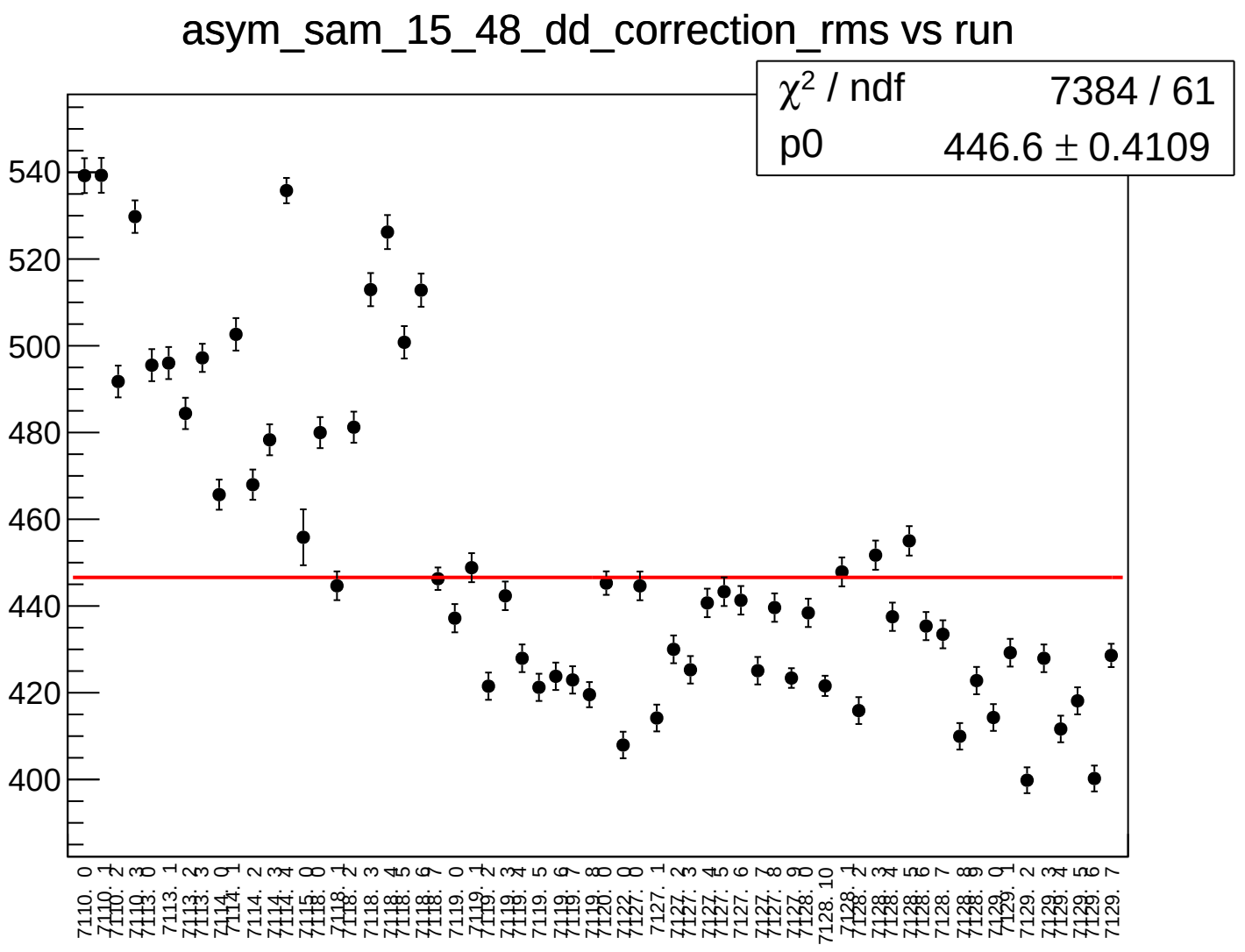

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 57.03 / 61
p0 −10.67 ± 60.16
pull
Entries 62
Mean −333.6
Std Dev 354.5

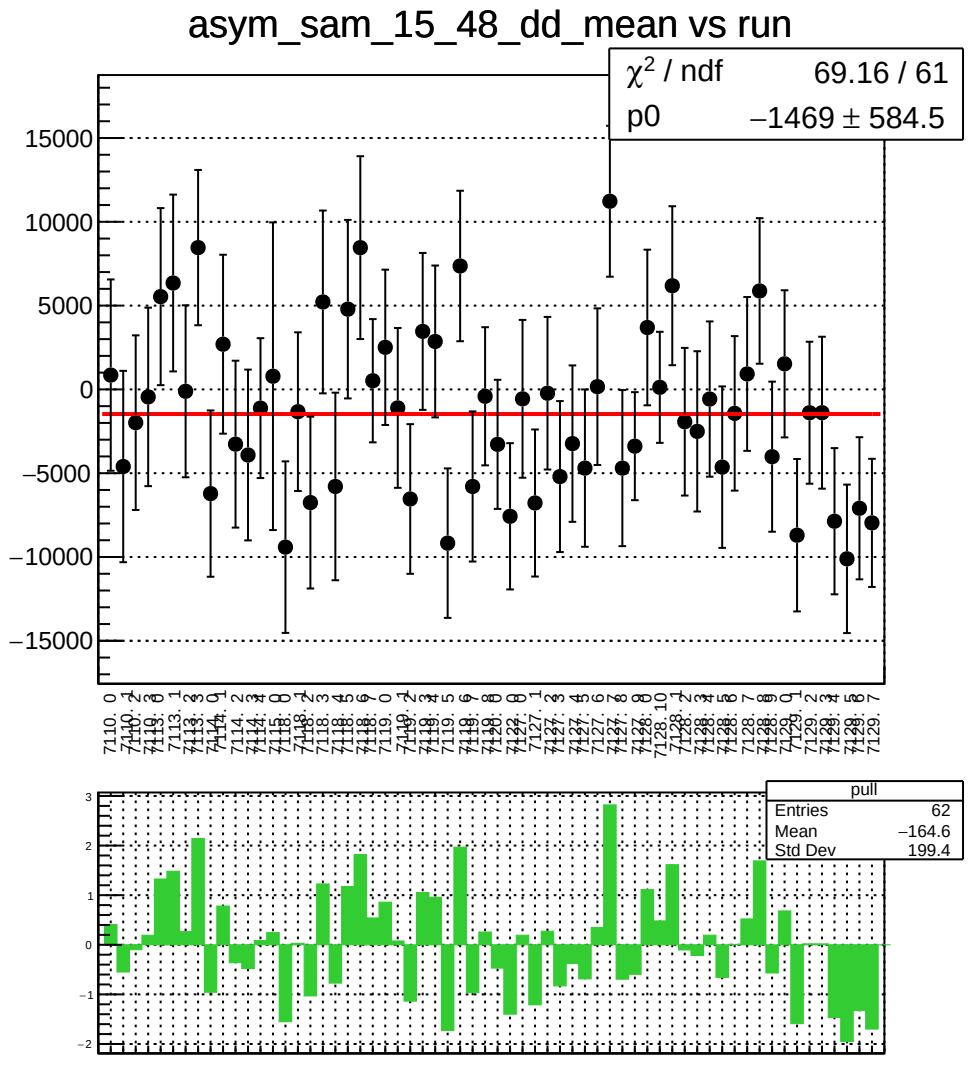

pull1D
Entries 62
Mean −0.005371
Std Dev 0.9591

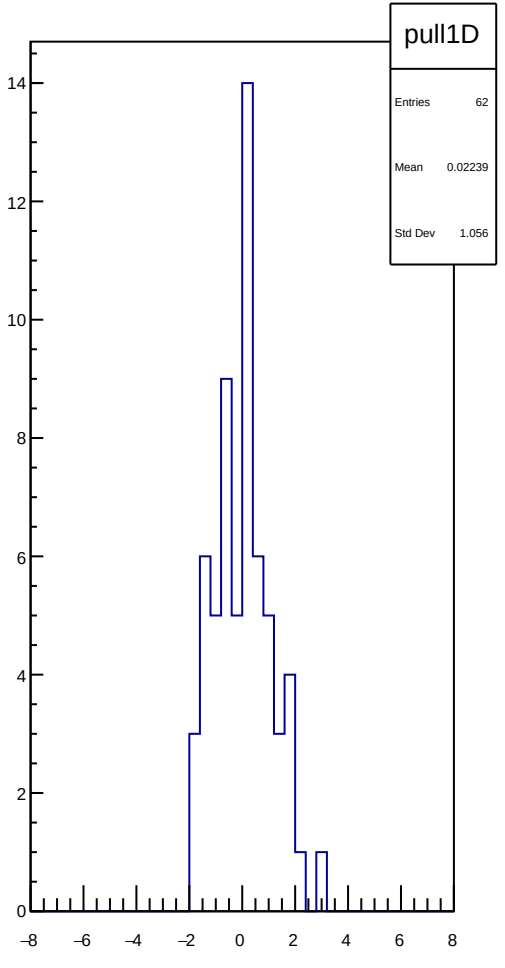

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 4.37e+04 / 61
p0 45.51 ± 0.04254
80
70
60
50
40
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

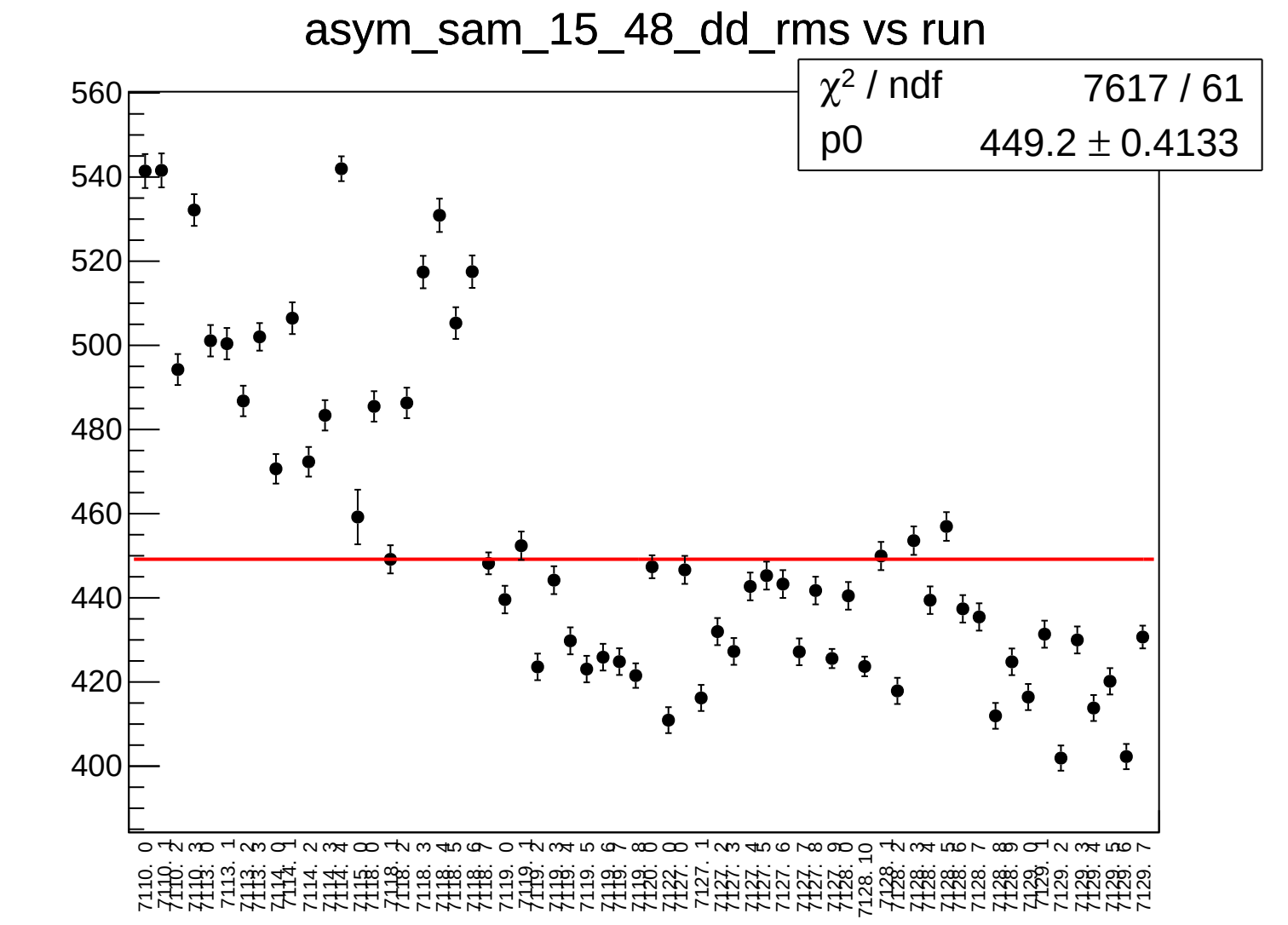

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 68.75 / 61
p0 1455 ± 581.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 62
Mean −171.6
Std Dev 206
2
1
0
−1
−2
−3

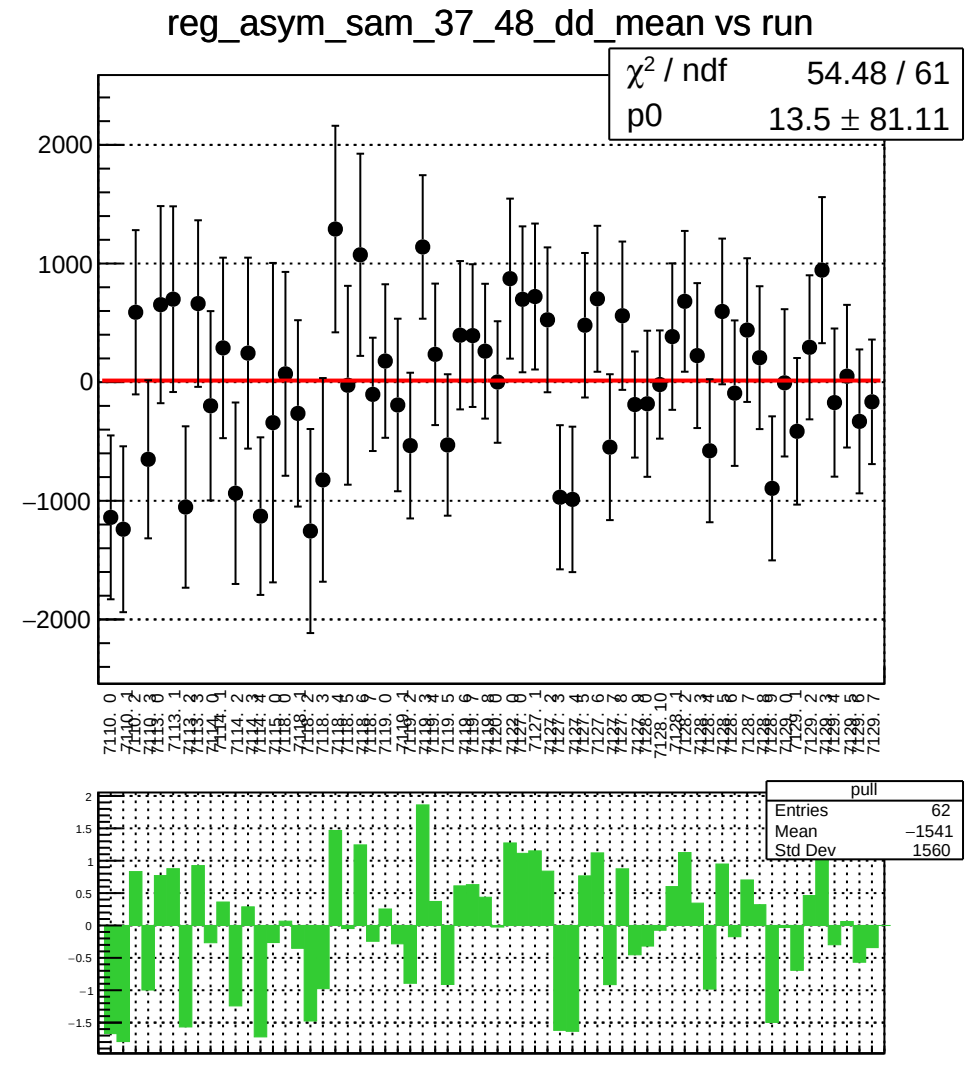

pull1D
Entries 62
Mean −0.02261
Std Dev 1.053
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

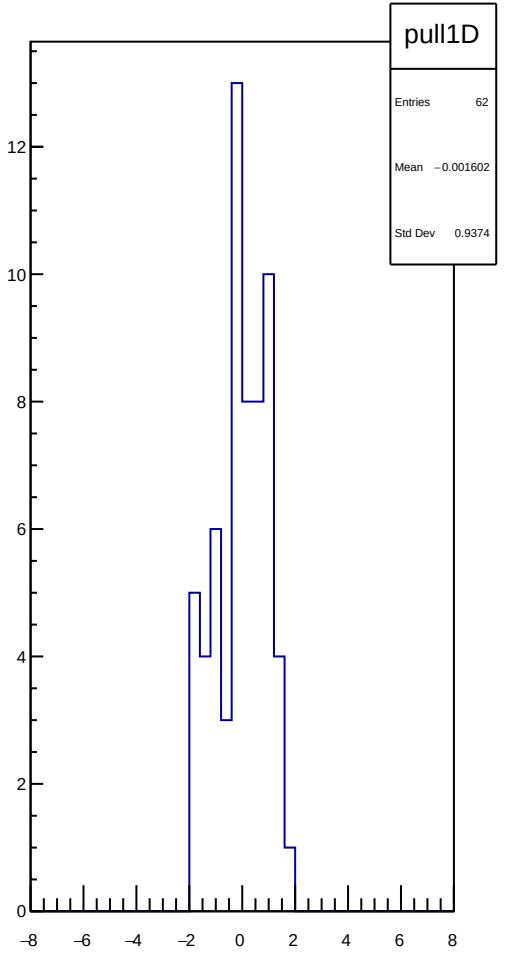

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 7384 / 61
p0 446.6 ± 0.4109
540
520
500
480
460
440
420
400

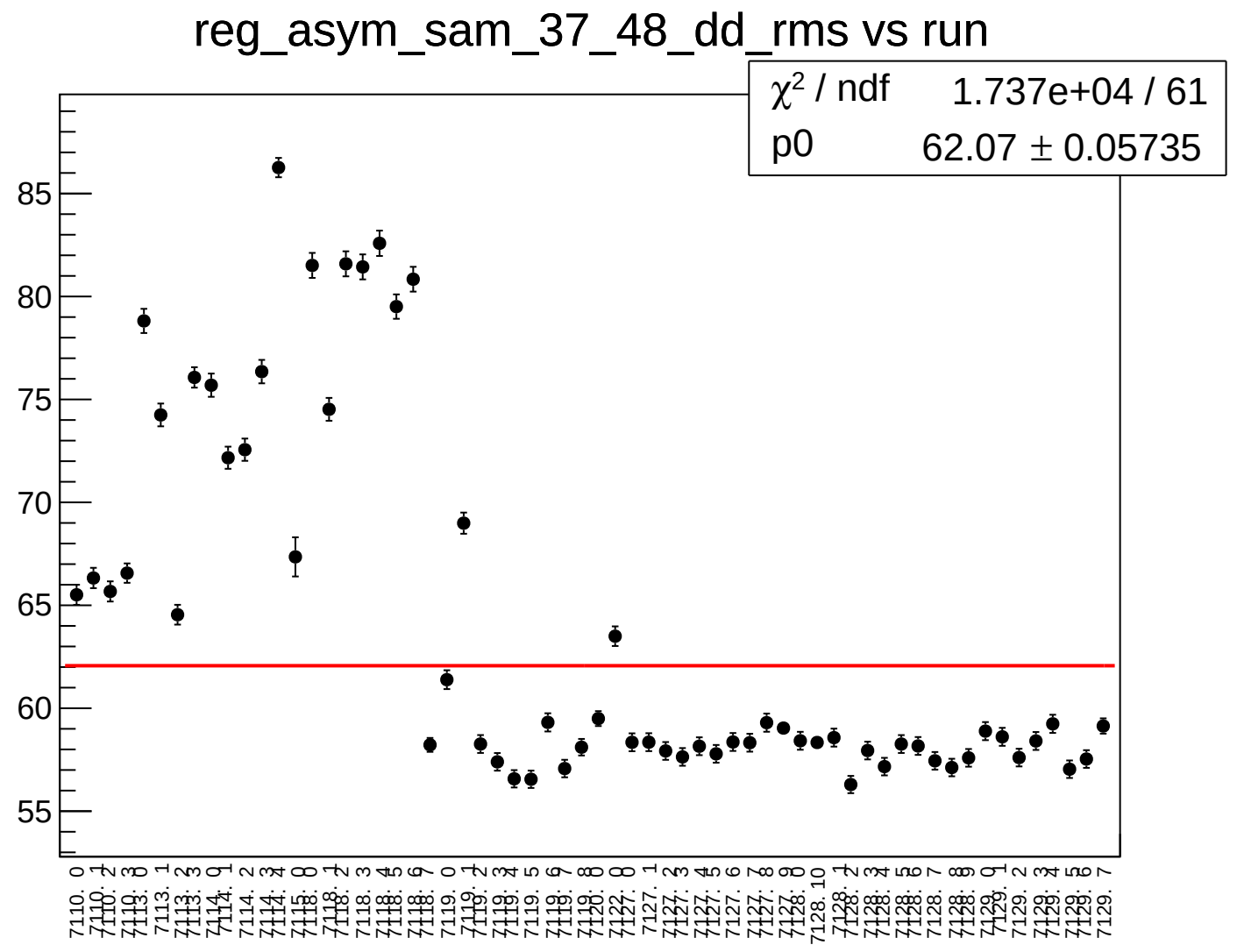

asym_sam_15_48_dd_mean vs run
χ² / ndf 69.16 / 61
p0 −1469 ± 584.5
pull
Entries 62
Mean −164.6
Std Dev 199.4

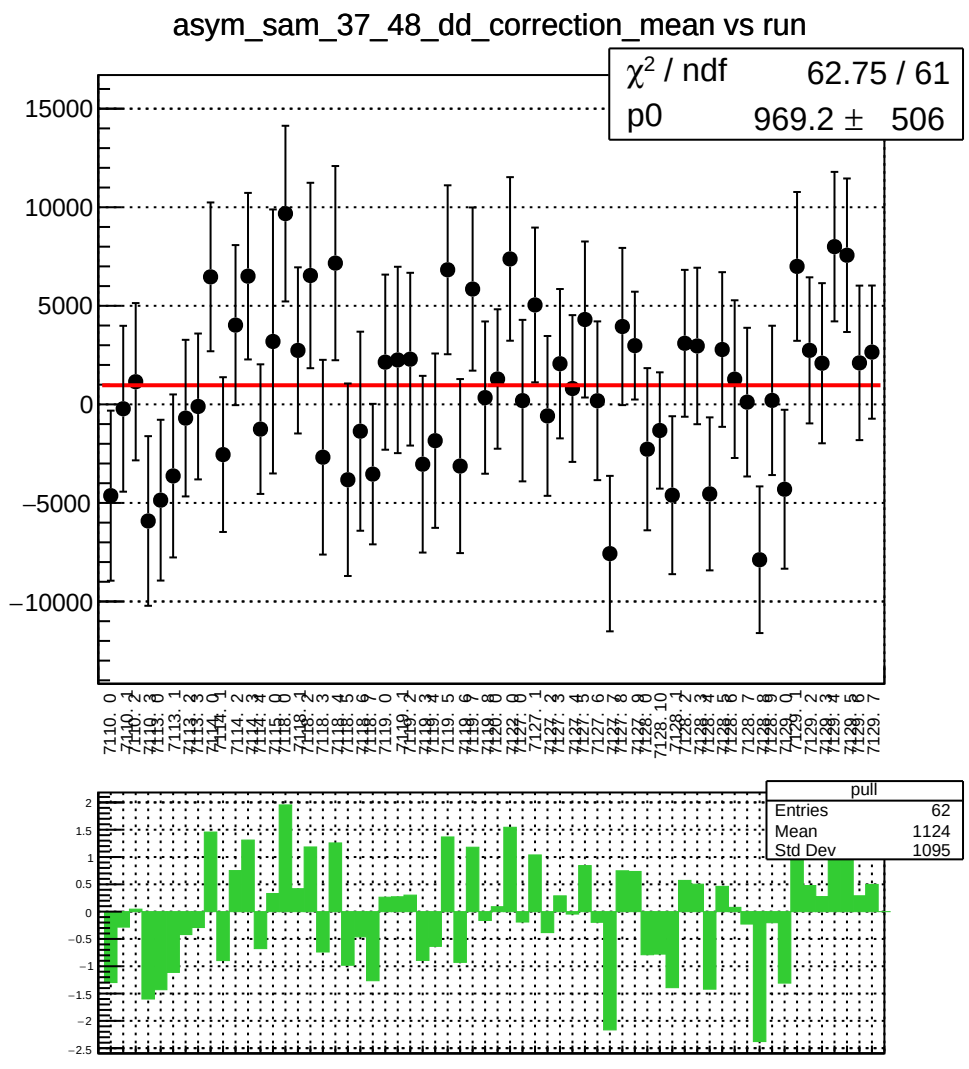

pull1D
Entries 62
Mean 0.02239
Std Dev 1.056

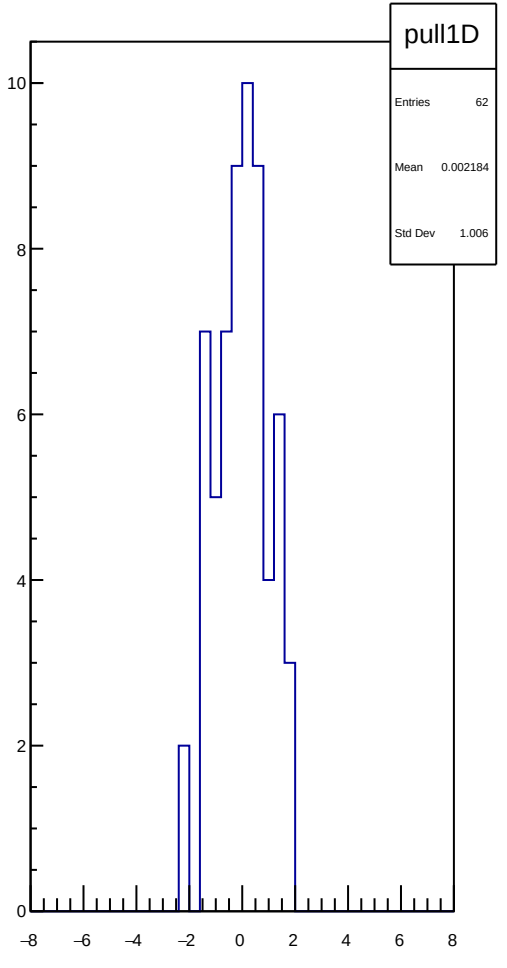

asym_sam_15_48_dd_rms vs run
χ² / ndf 7617 / 61
p0 449.2 ± 0.4133
560
540
520
500
480
460
440
420
400

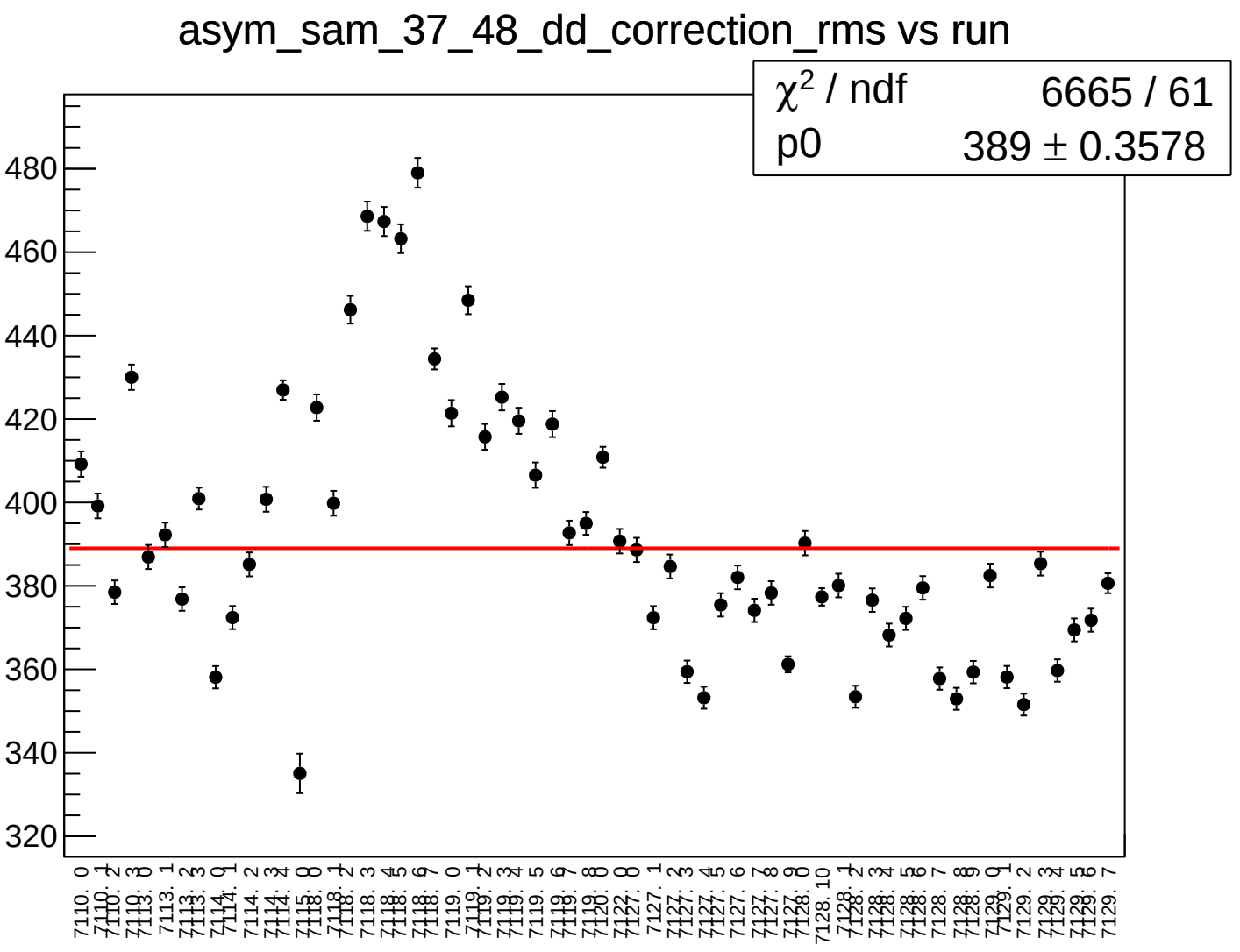

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 54.48 / 61
p0 13.5 ± 81.11
2000
1000
0
−1000
−2000
pull
Entries 62
Mean −1541
Std Dev 1560
2
1.5
1
0.5
0
−0.5
−1
−1.5

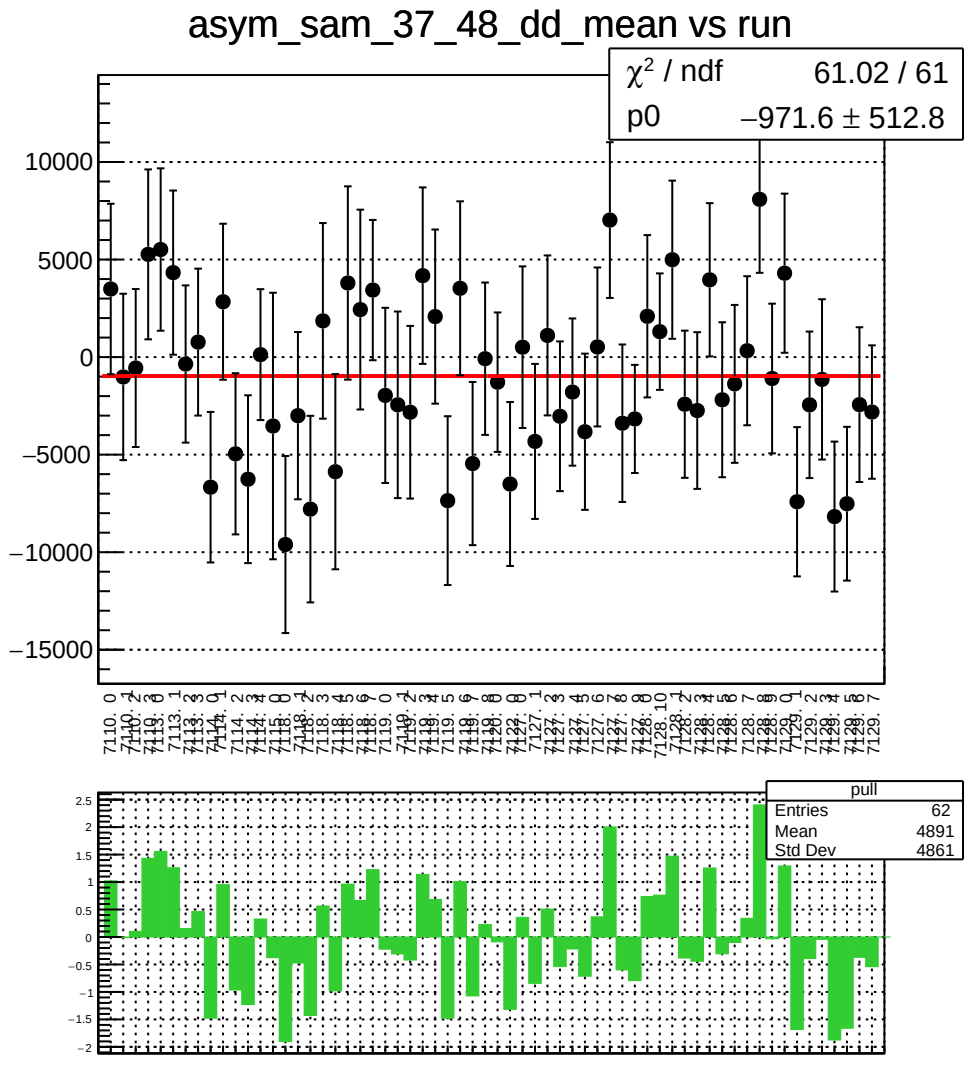

pull1D
Entries 62
Mean −0.001602
Std Dev 0.9374
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

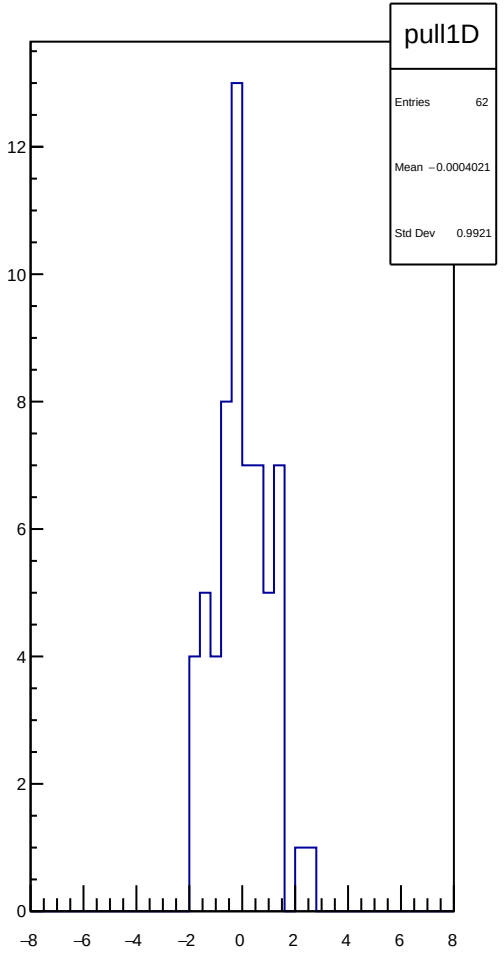

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.737e+04 / 61
p0 62.07 ± 0.05735
85
80
75
70
65
60
55
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

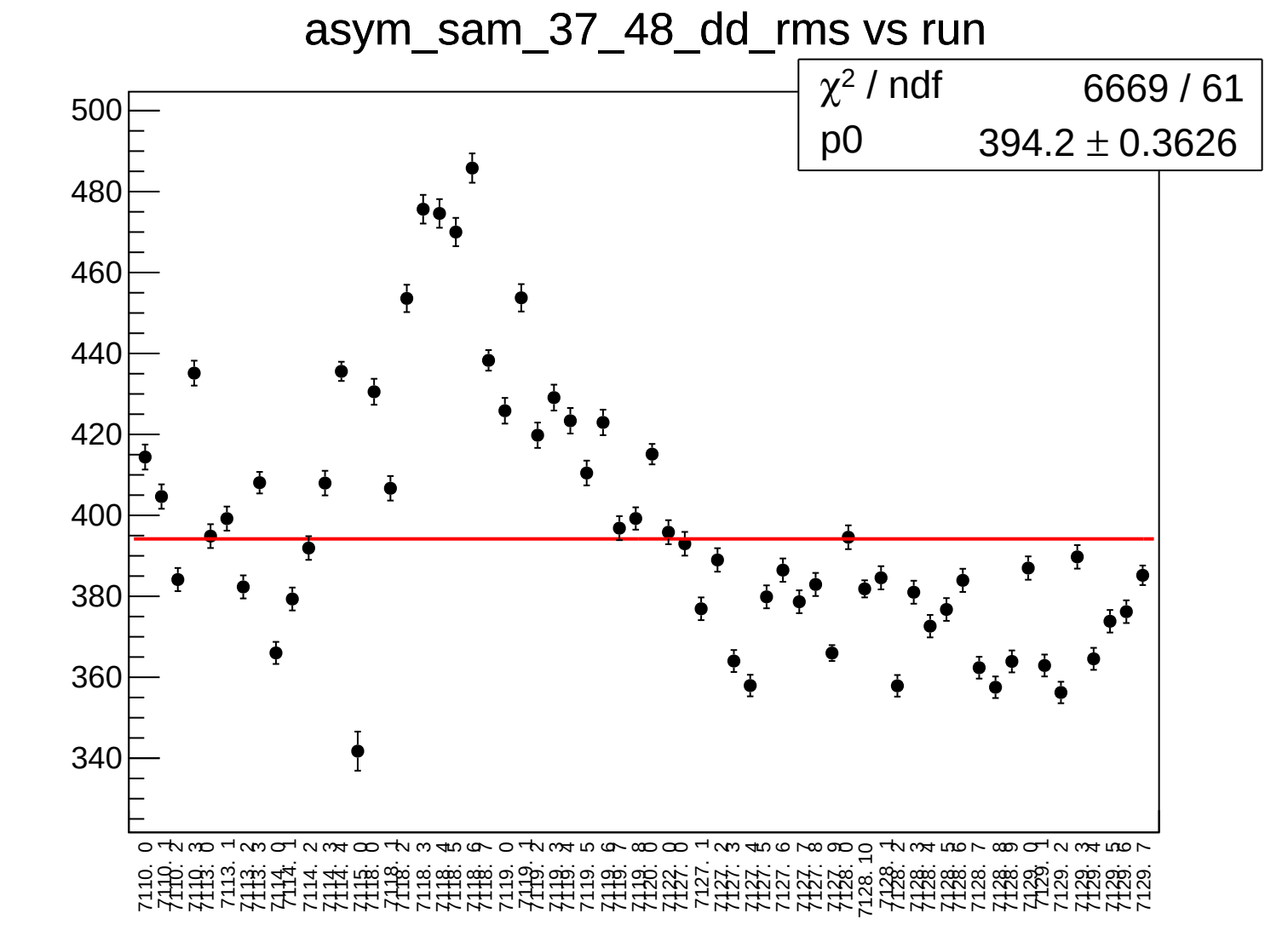

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 62.75 / 61
p0 969.2 ± 506
15000
10000
5000
0
−5000
−10000
pull
Entries 62
Mean 1124
Std Dev 1095
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

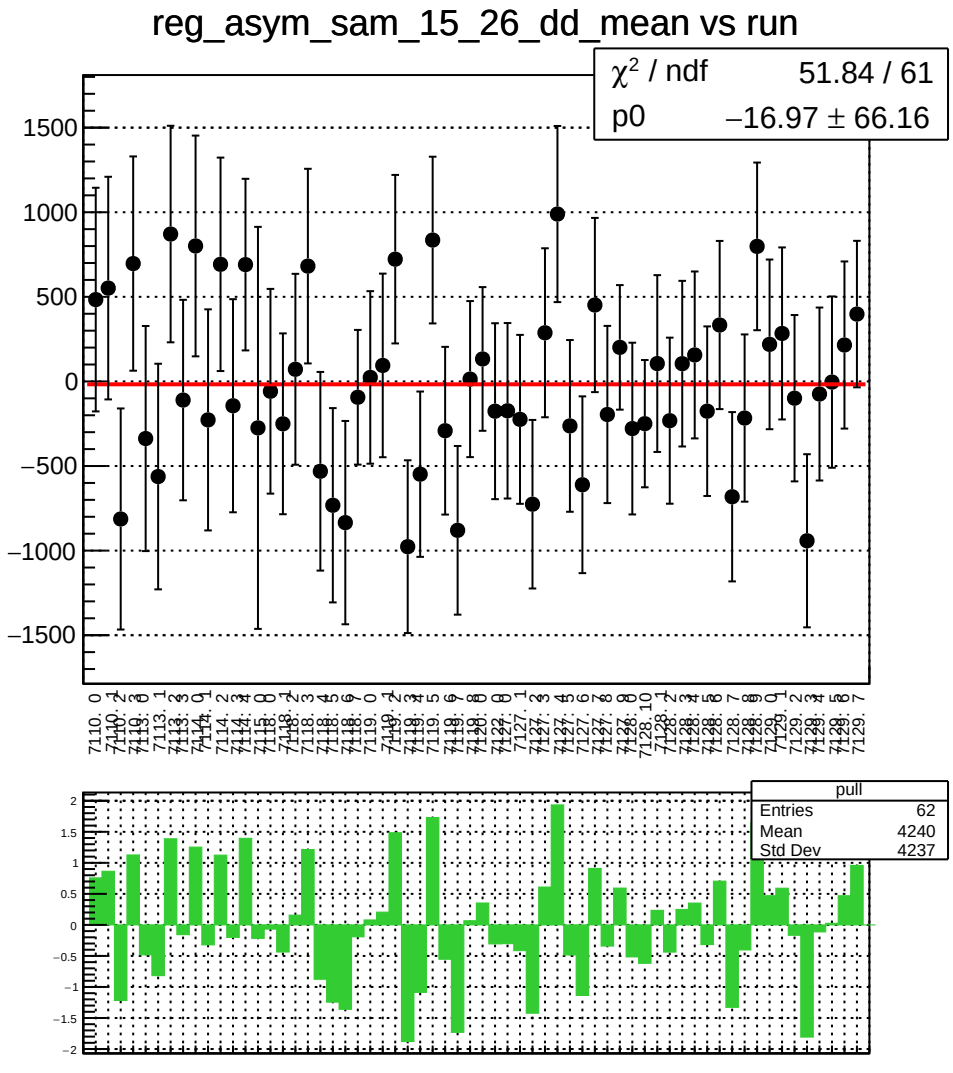

pull1D
Entries 62
Mean 0.002184
Std Dev 1.006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

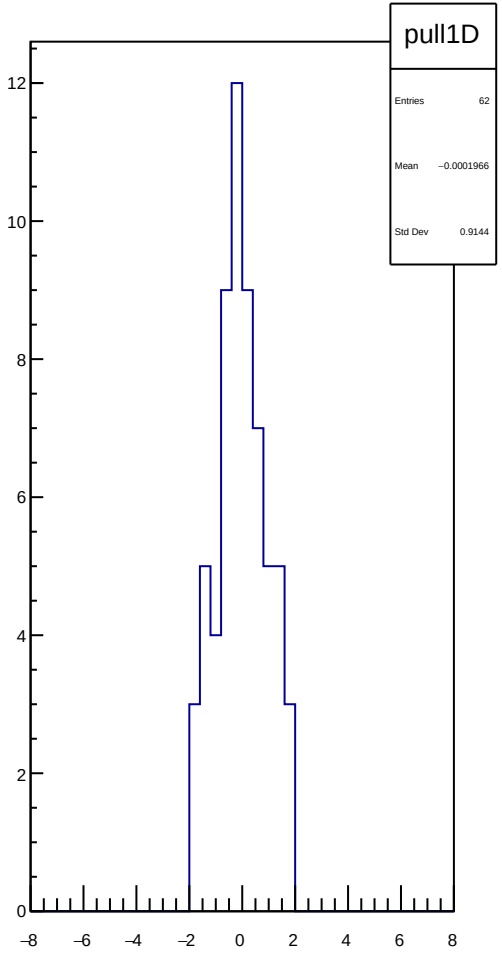

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 6665 / 61
p0 389 ± 0.3578
480
460
440
420
400
380
360
340
320

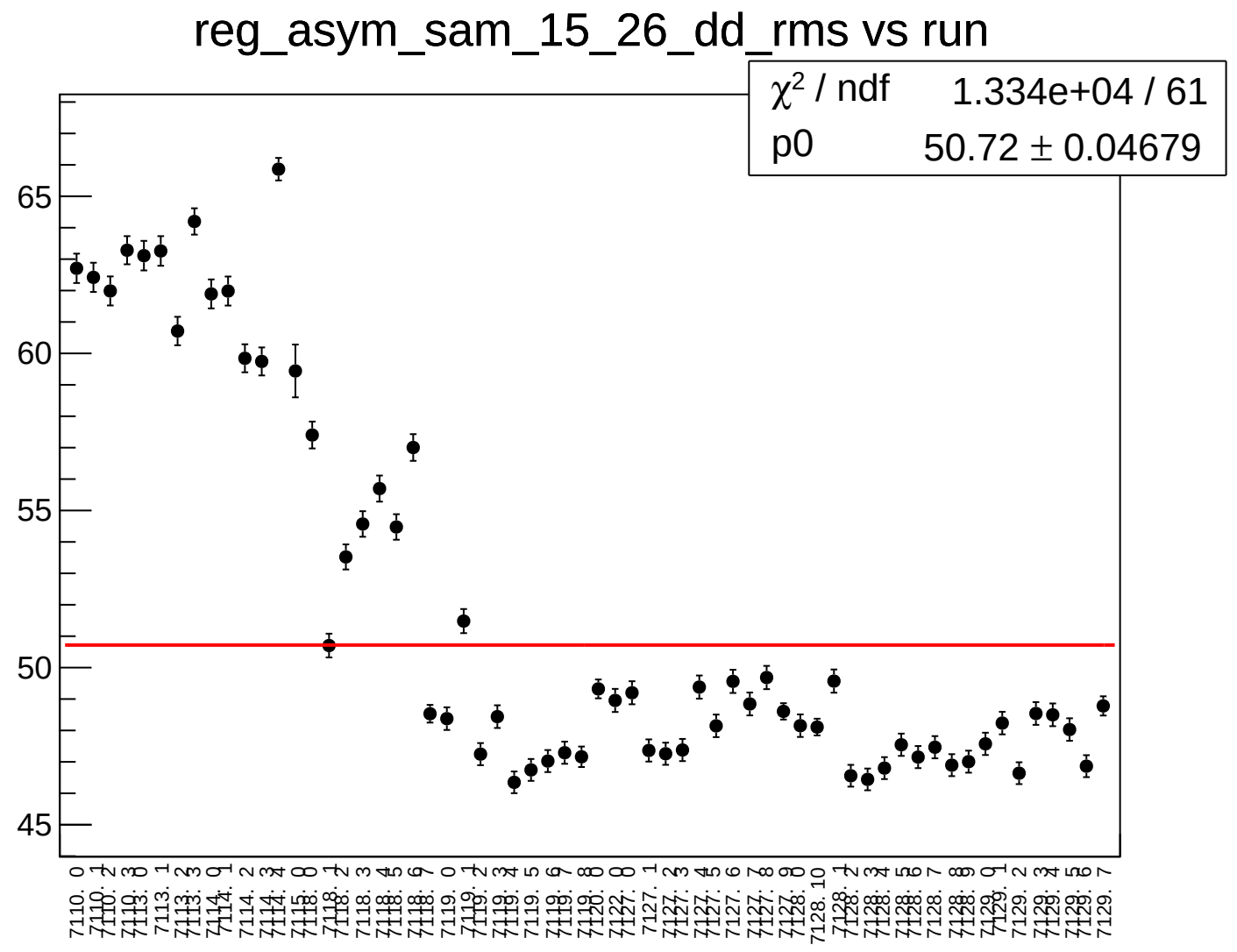

asym_sam_37_48_dd_mean vs run
χ² / ndf 61.02 / 61
p0 −971.6 ± 512.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 62
Mean 4891
Std Dev 4861
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

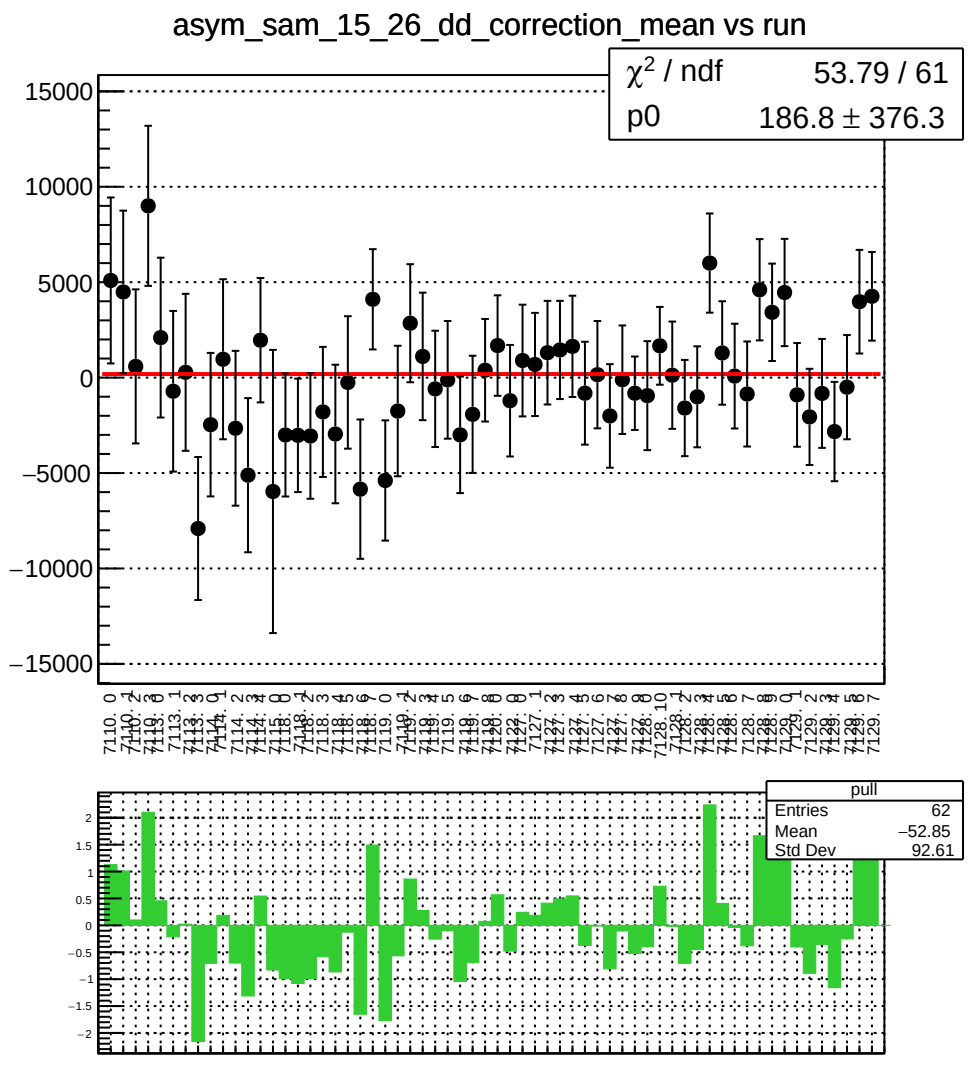

pull1D
Entries 62
Mean −0.0004021
Std Dev 0.9921
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

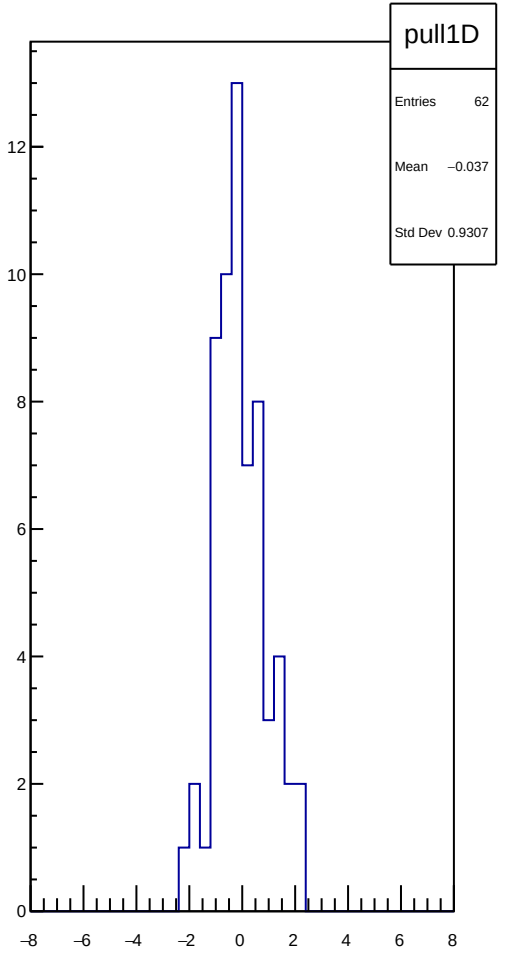

asym_sam_37_48_dd_rms vs run
χ² / ndf 6669 / 61
p0 394.2 ± 0.3626
500
480
460
440
420
400
380
360
340

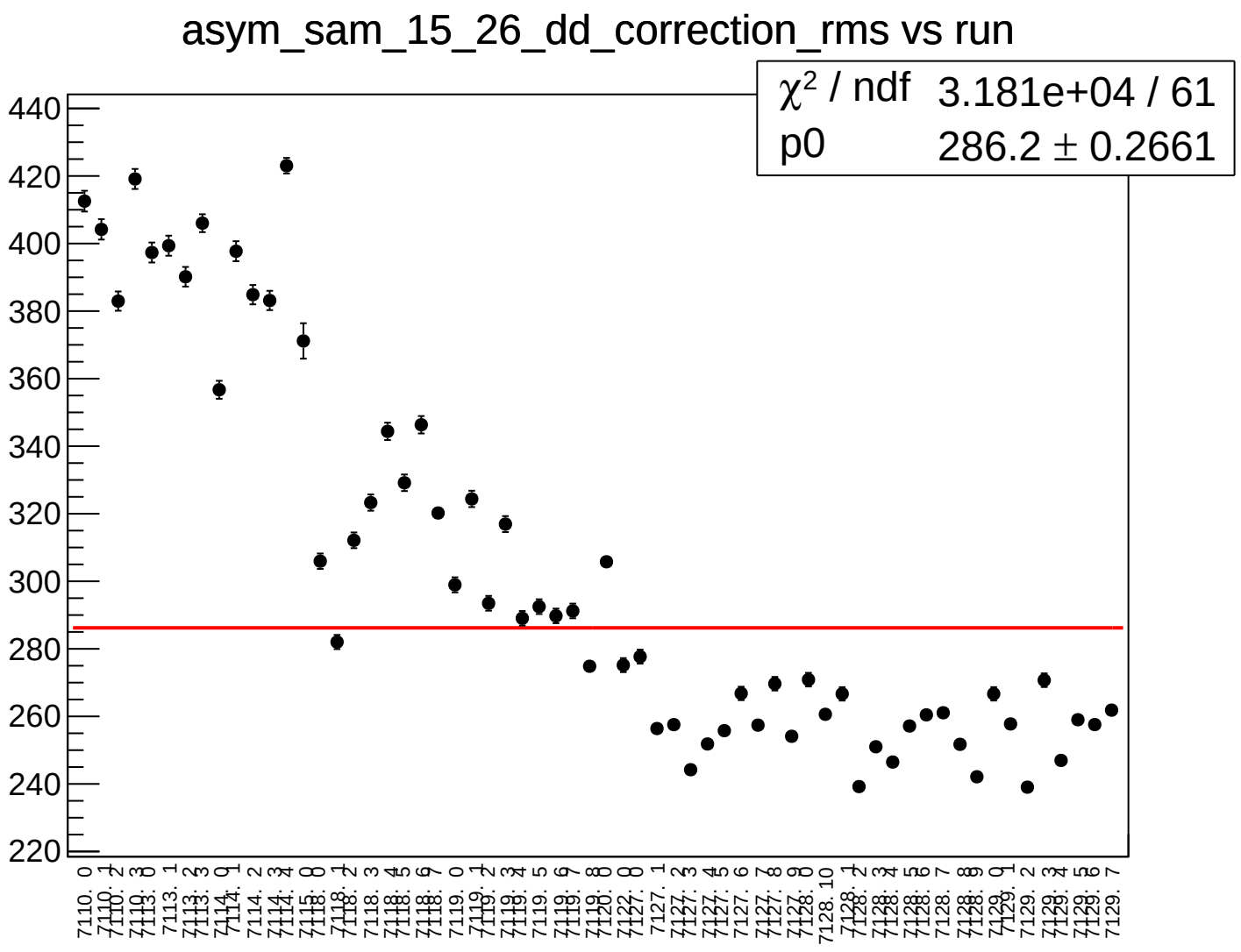

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 51.84 / 61
p0 −16.97 ± 66.16
pull
Entries 62
Mean 4240
Std Dev 4237

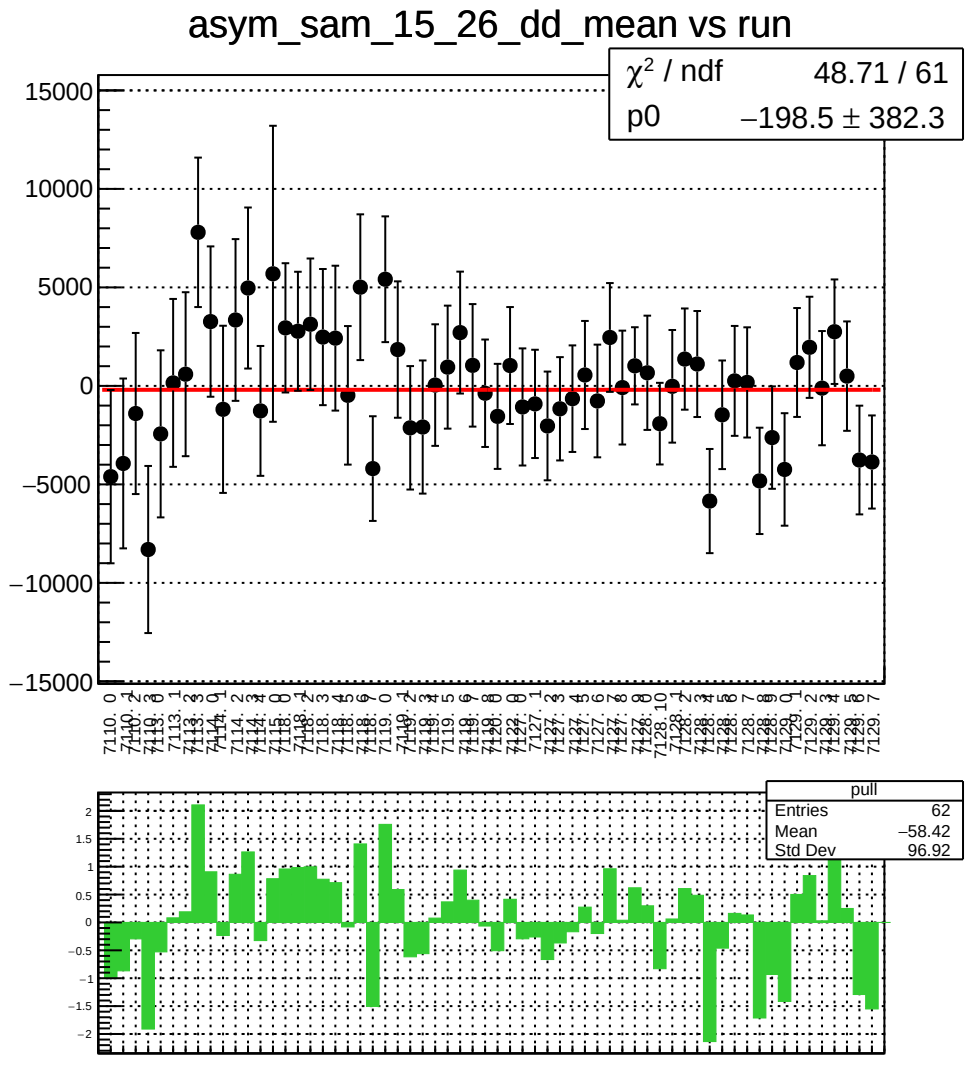

pull1D
Entries 62
Mean −0.0001966
Std Dev 0.9144

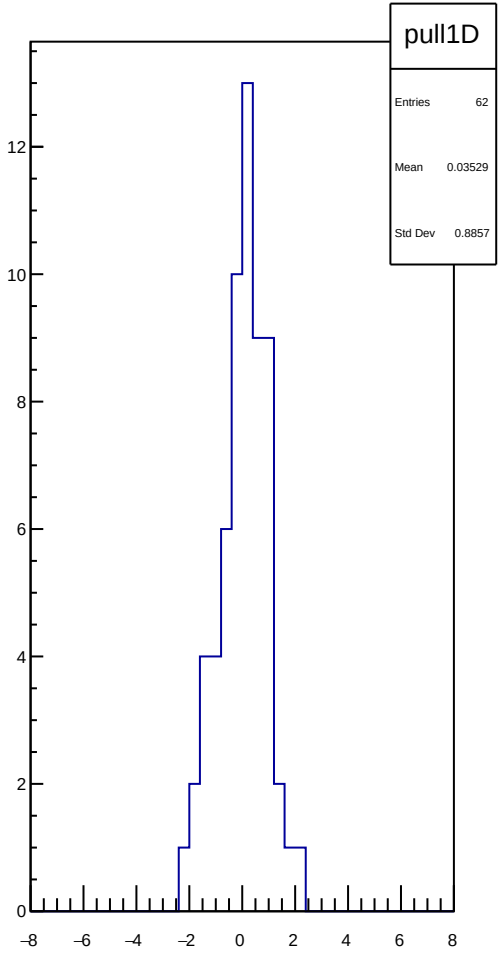

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.334e+04 / 61
p0 50.72 ± 0.04679
65
60
55
50
45
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

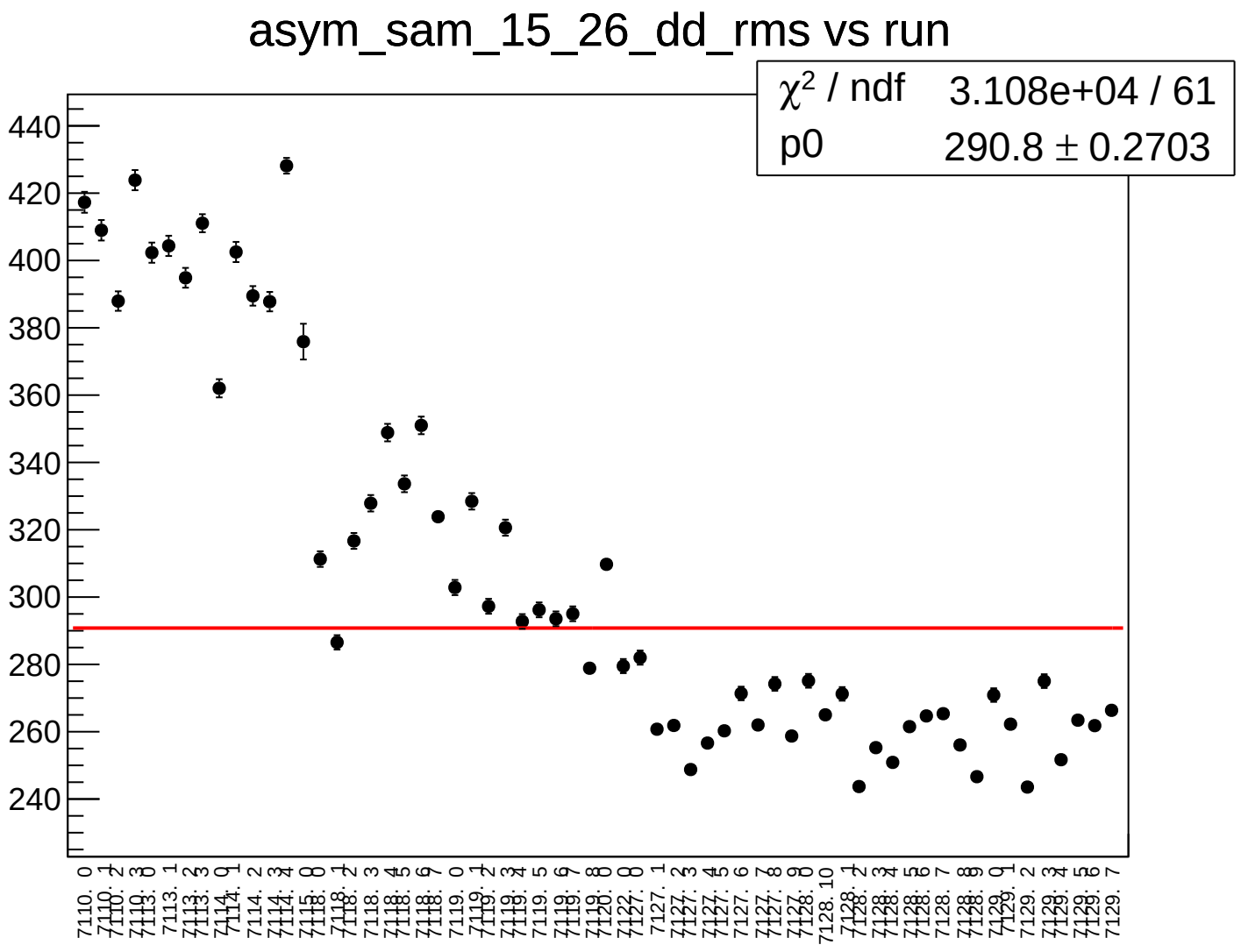

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 53.79 / 61
p0 186.8 ± 376.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 62
Mean −52.85
Std Dev 92.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

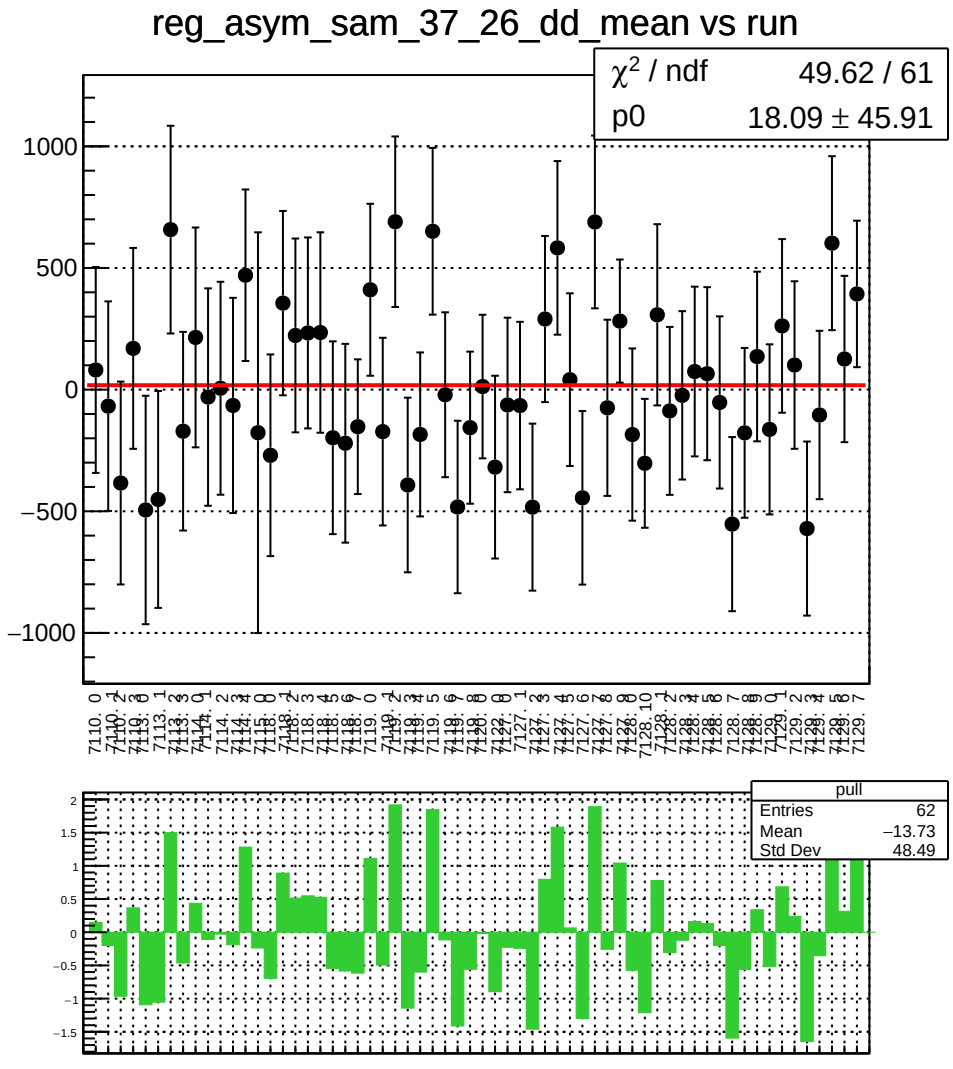

pull1D
Entries 62
Mean −0.037
Std Dev 0.9307
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

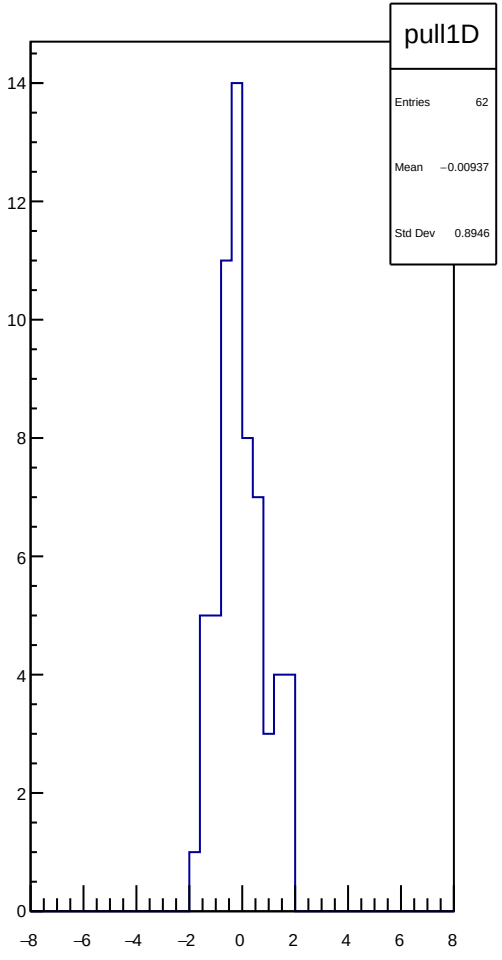

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 3.181e+04 / 61
p0 286.2 ± 0.2661
440
420
400
380
360
340
320
300
280
260
240
220
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

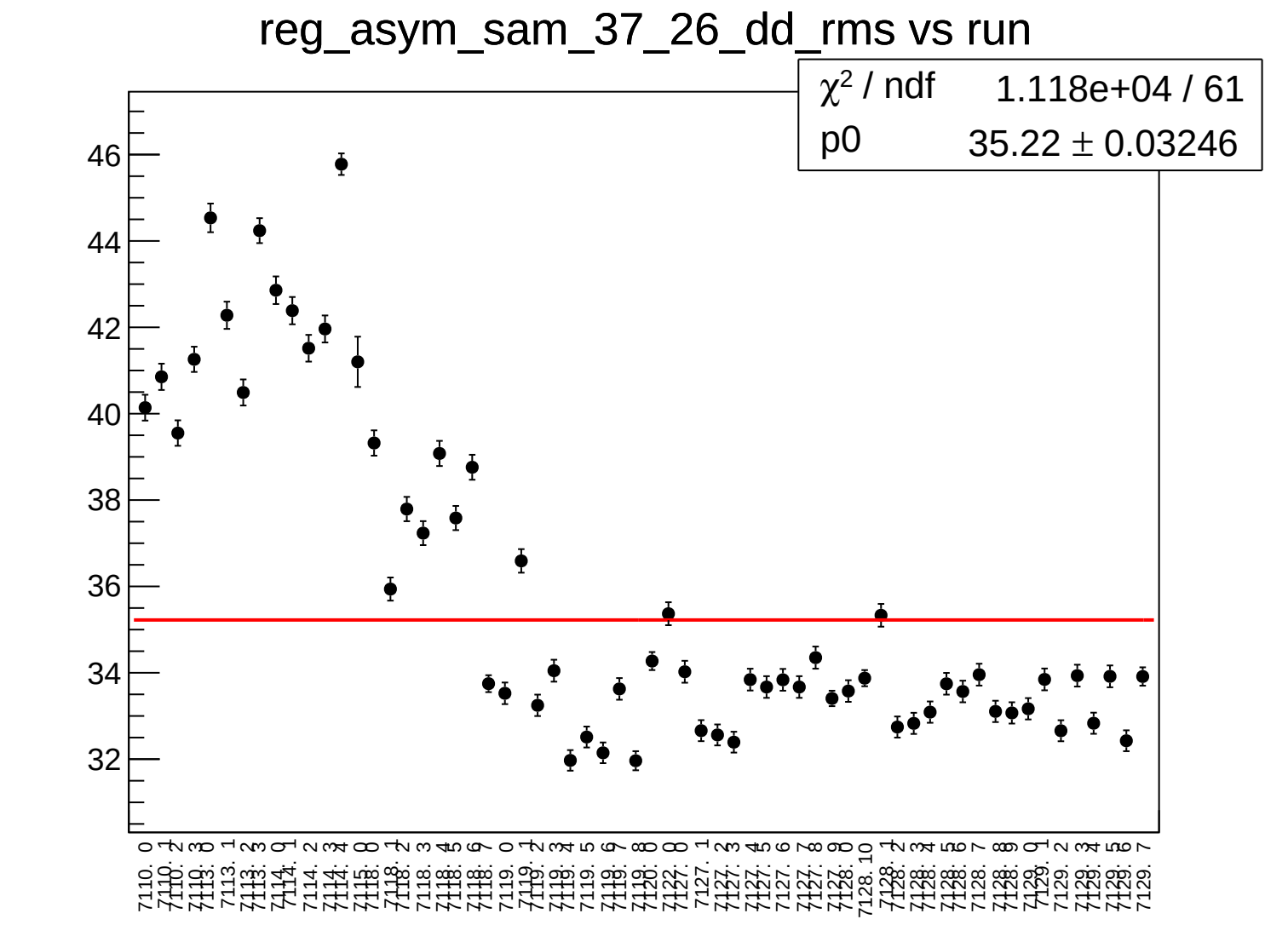

asym_sam_15_26_dd_mean vs run
χ² / ndf 48.71 / 61
p0 −198.5 ± 382.3
pull
Entries 62
Mean −58.42
Std Dev 96.92

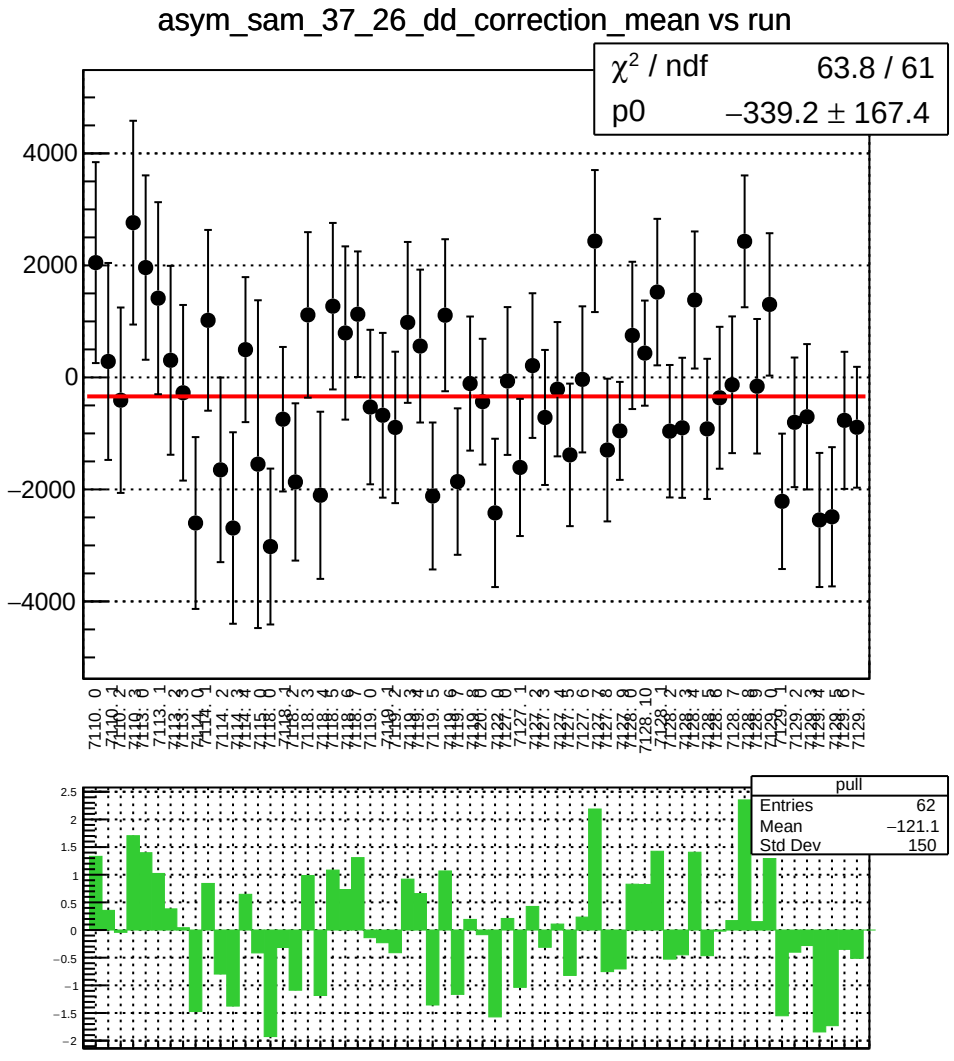

pull1D
Entries 62
Mean 0.03529
Std Dev 0.8857

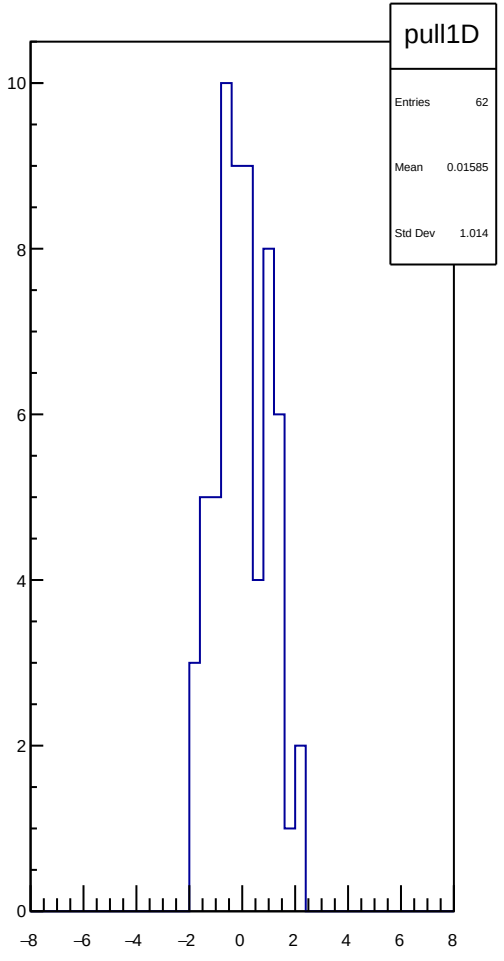

asym_sam_15_26_dd_rms vs run
χ² / ndf 3.108e+04 / 61
p0 290.8 ± 0.2703
440
420
400
380
360
340
320
300
280
260
240

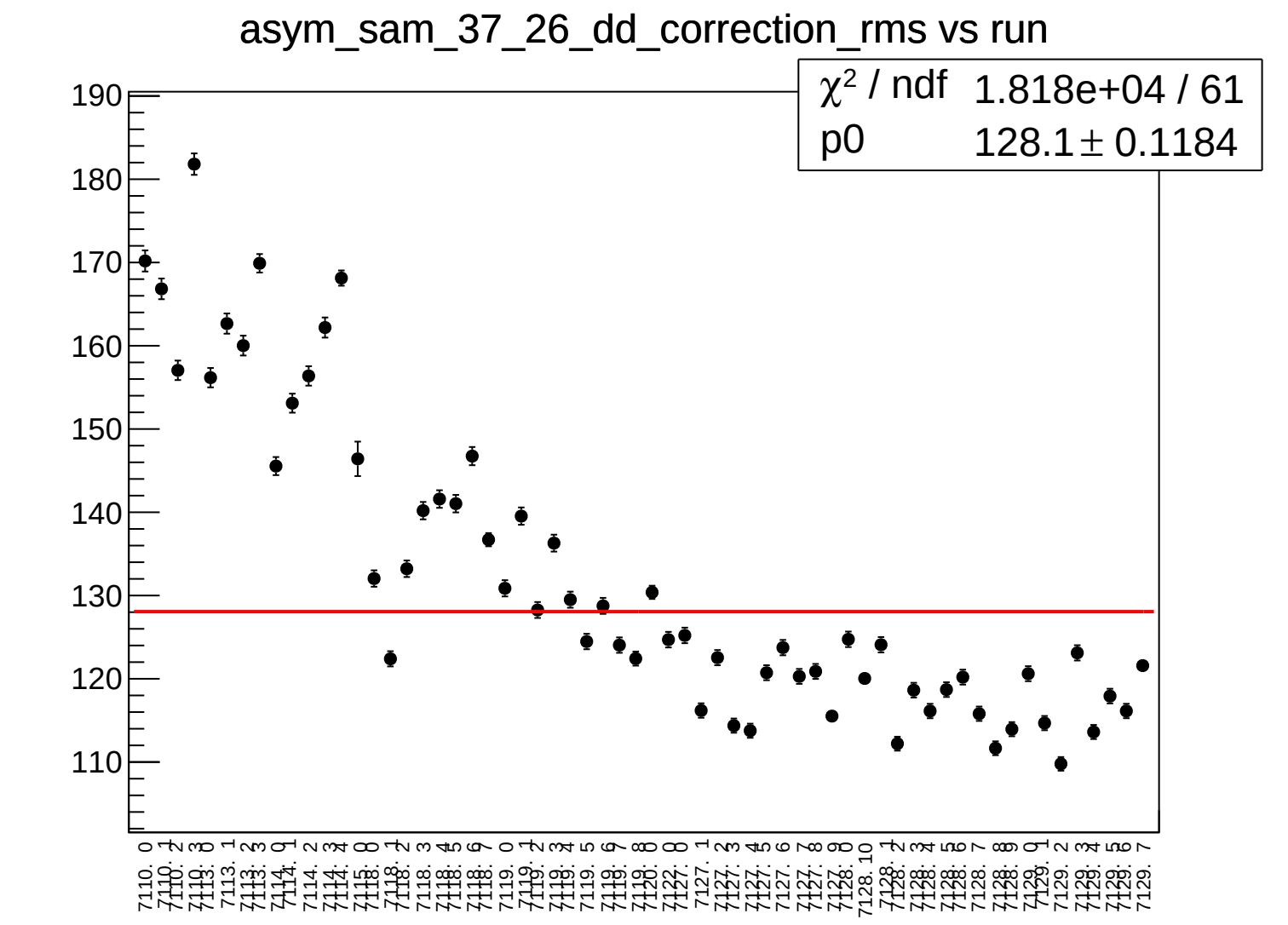

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 49.62 / 61
p0 18.09 ± 45.91
pull
Entries 62
Mean −13.73
Std Dev 48.49

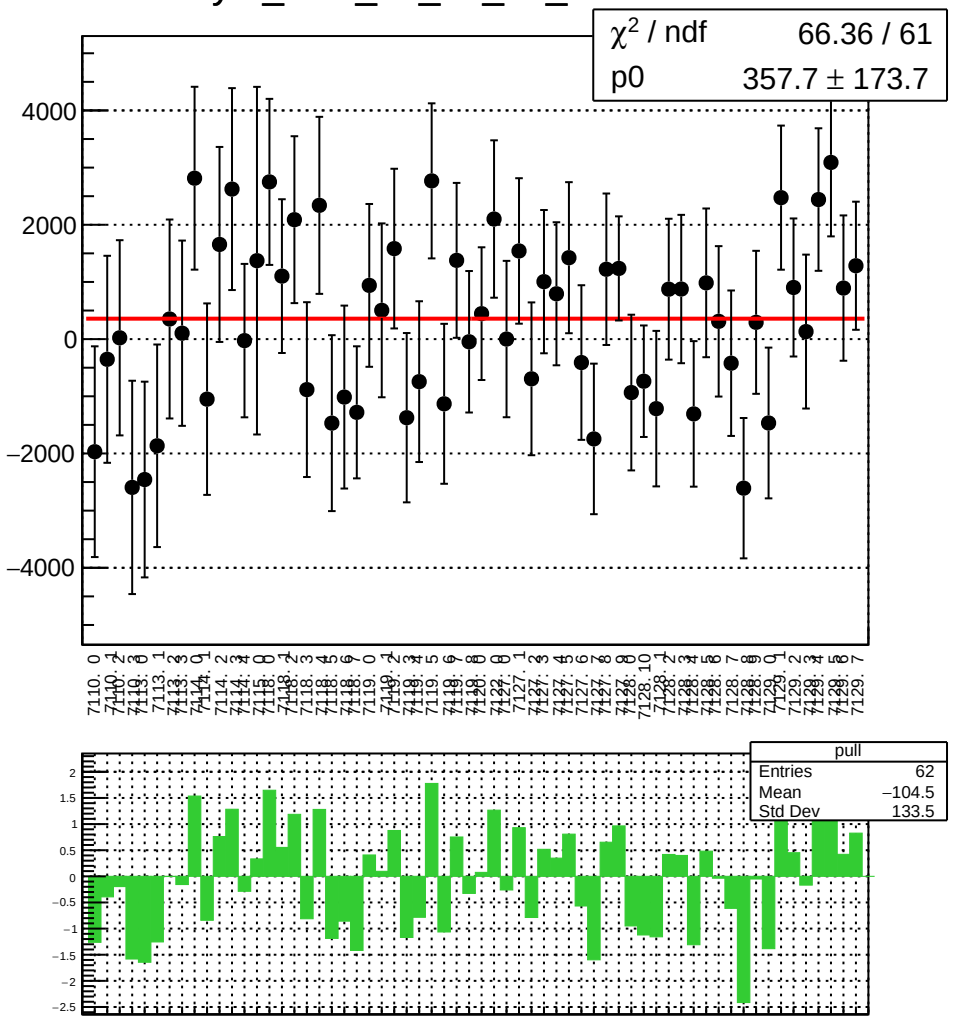

pull1D
Entries 62
Mean −0.00937
Std Dev 0.8946

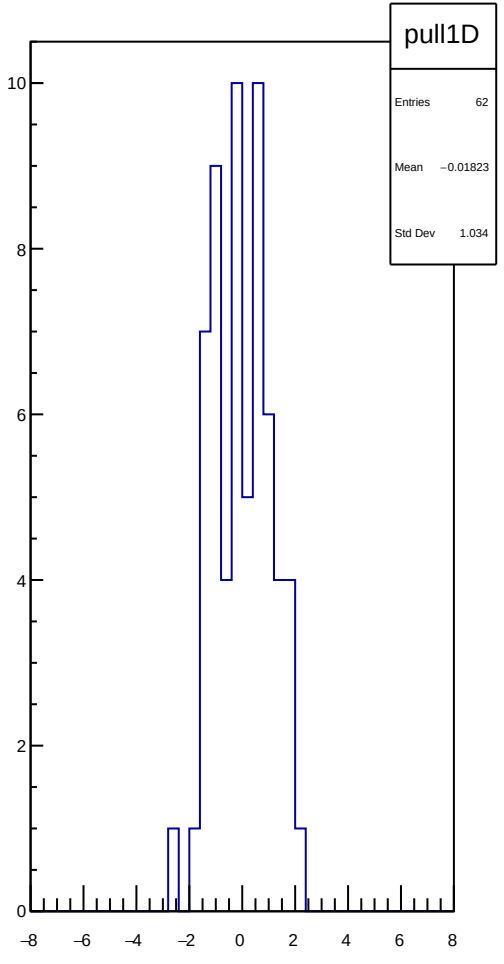

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.118e+04 / 61
p0 35.22 ± 0.03246
46
44
42
40
38
36
34
32
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

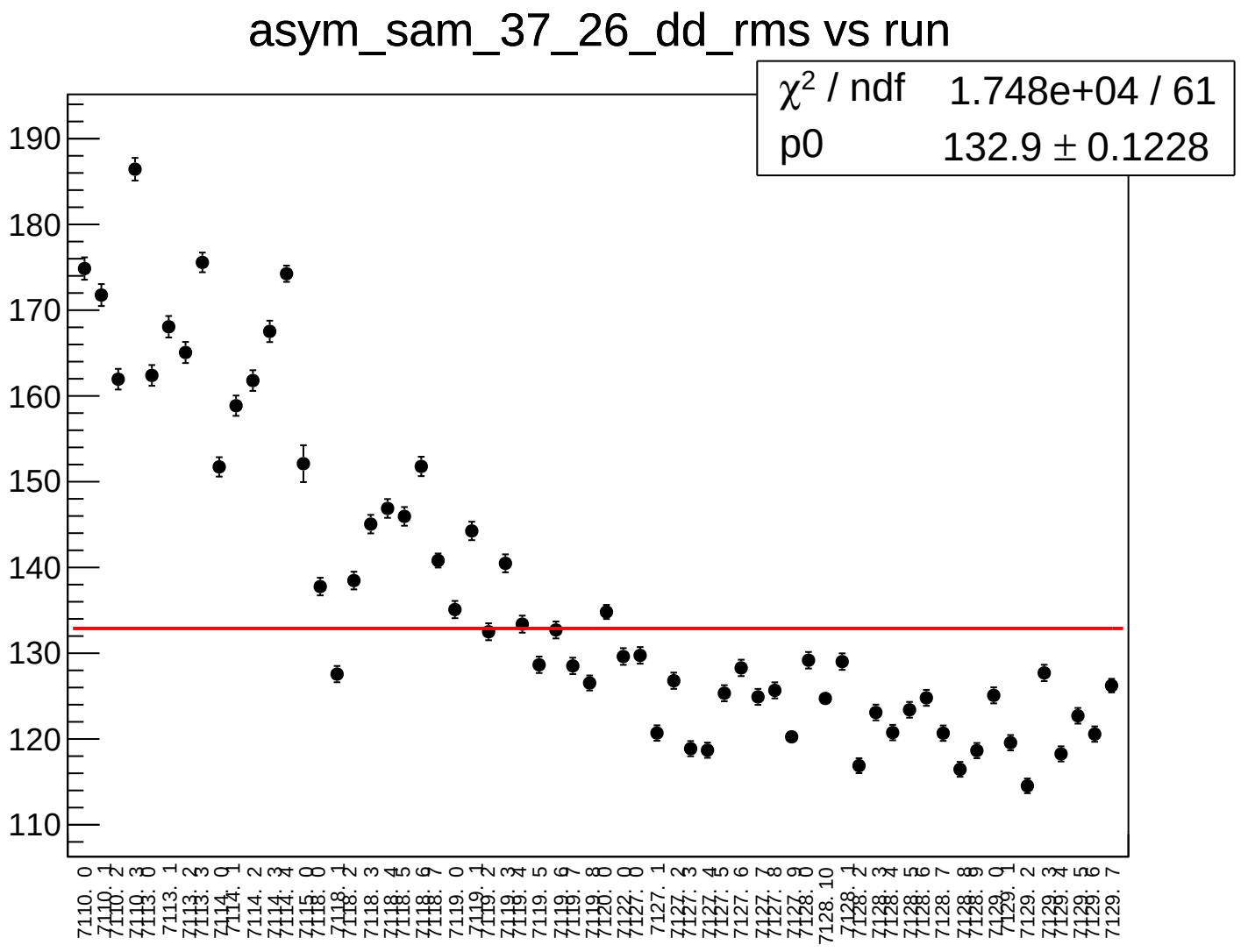

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 63.8 / 61
p0 −339.2 ± 167.4
4000
2000
0
−2000
−4000
pull
Entries 62
Mean −121.1
Std Dev 150
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

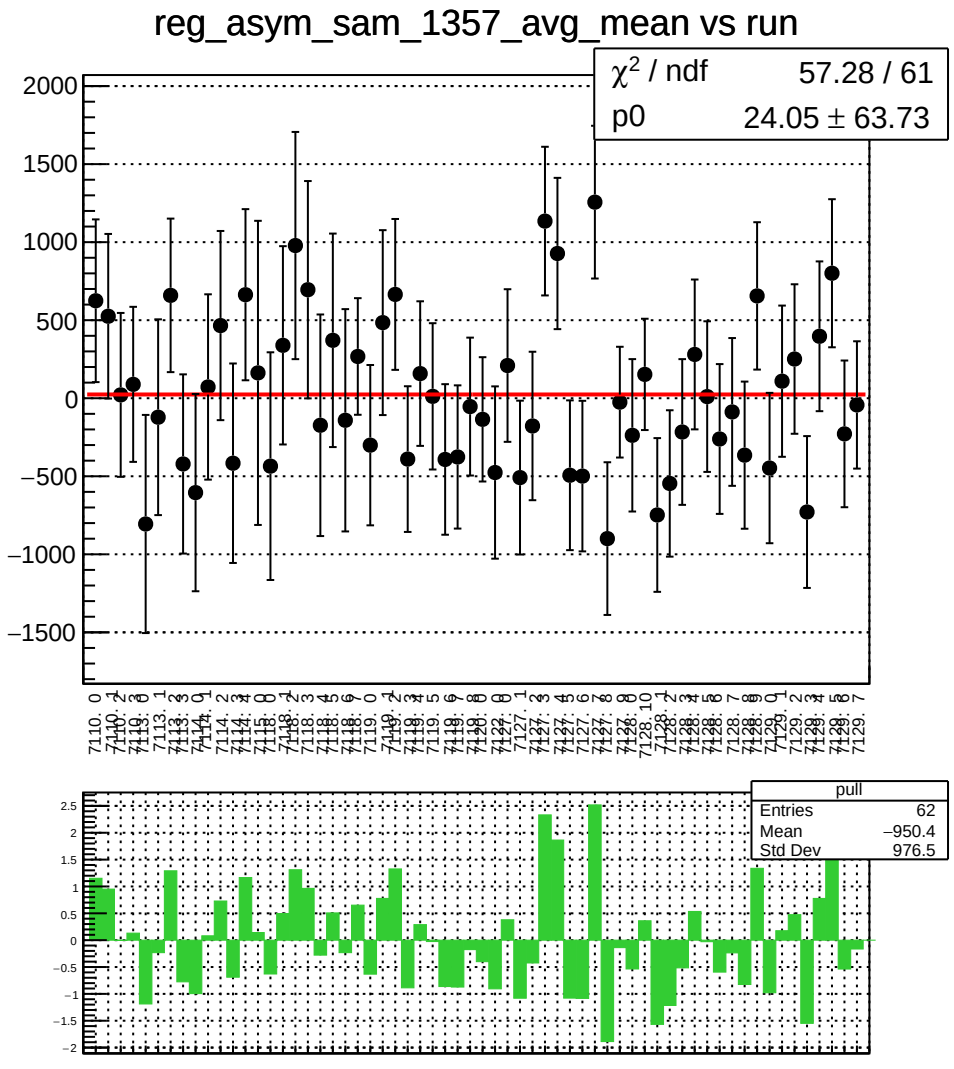

pull1D
Entries 62
Mean 0.01585
Std Dev 1.014
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

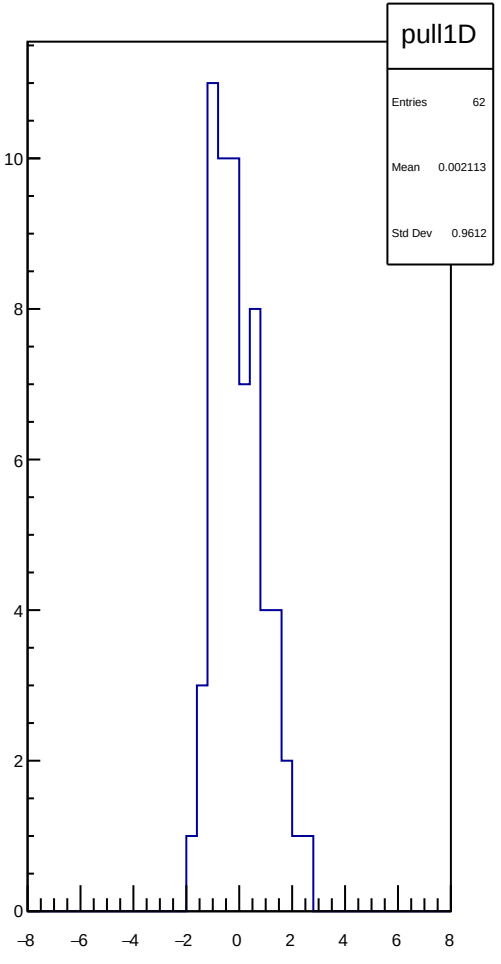

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 1.818e+04 / 61
p0 128.1 ± 0.1184
190
180
170
160
150
140
130
120
110

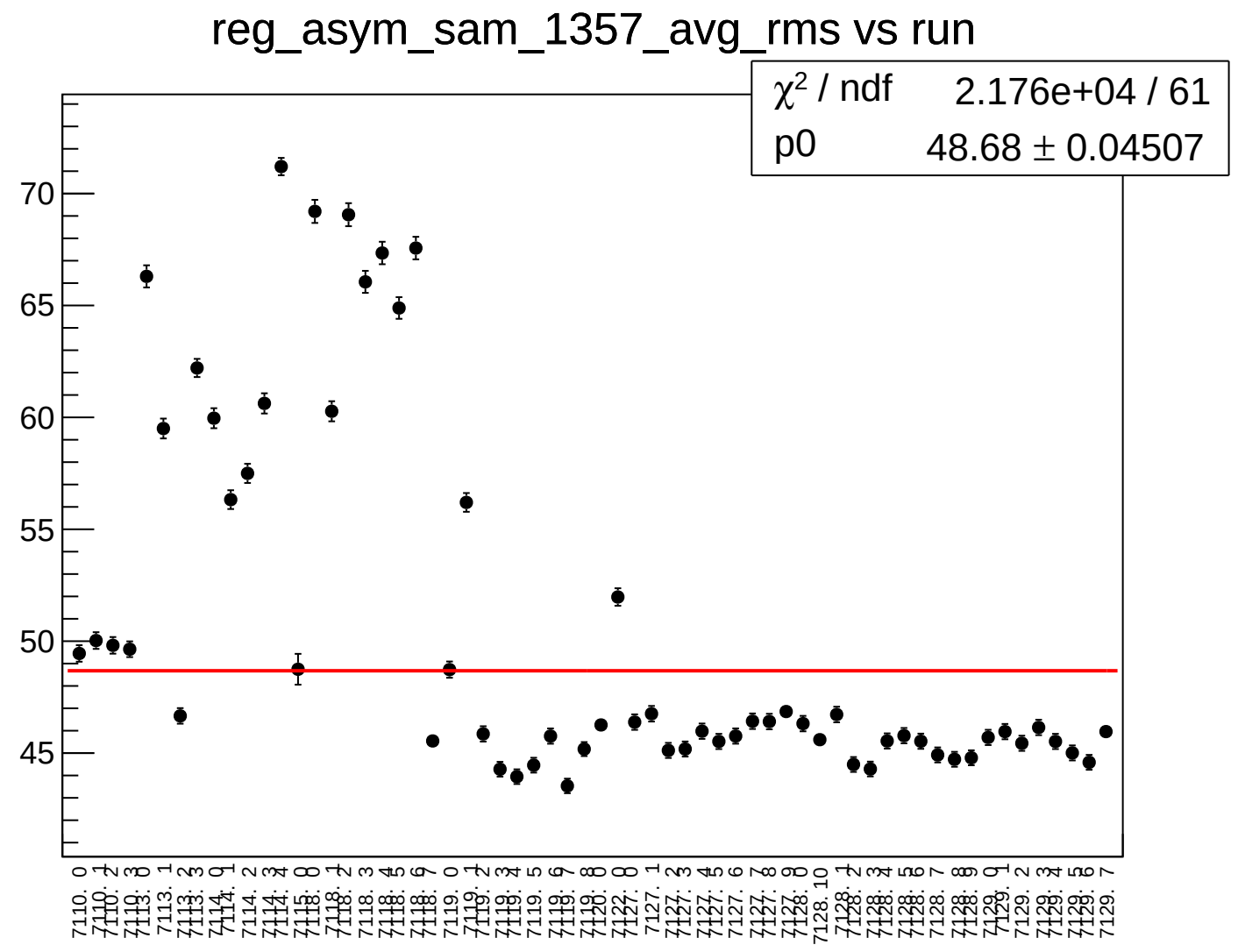

asym_sam_37_26_dd_mean vs run
χ² / ndf 66.36 / 61
p0 357.7 ± 173.7
pull
Entries 62
Mean −104.5
Std Dev 133.5

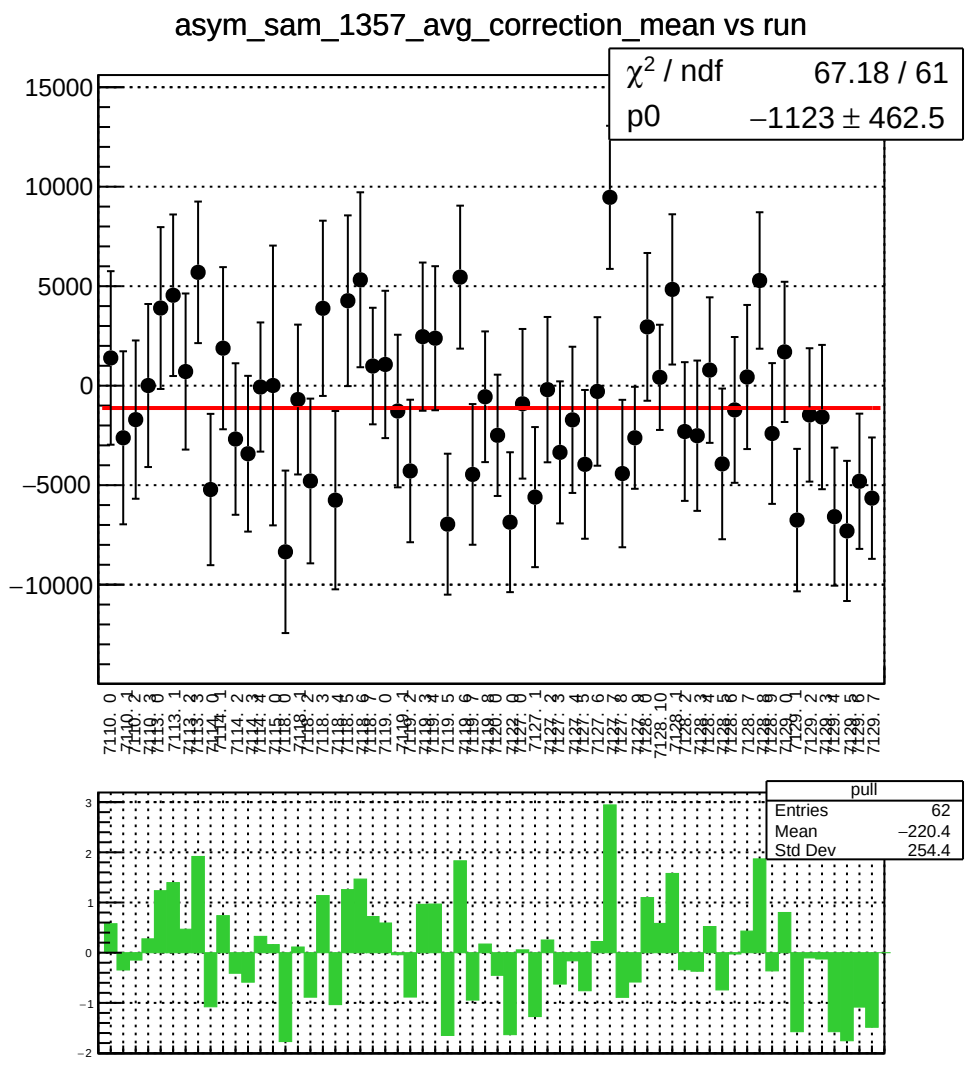

pull1D
Entries 62
Mean −0.01823
Std Dev 1.034

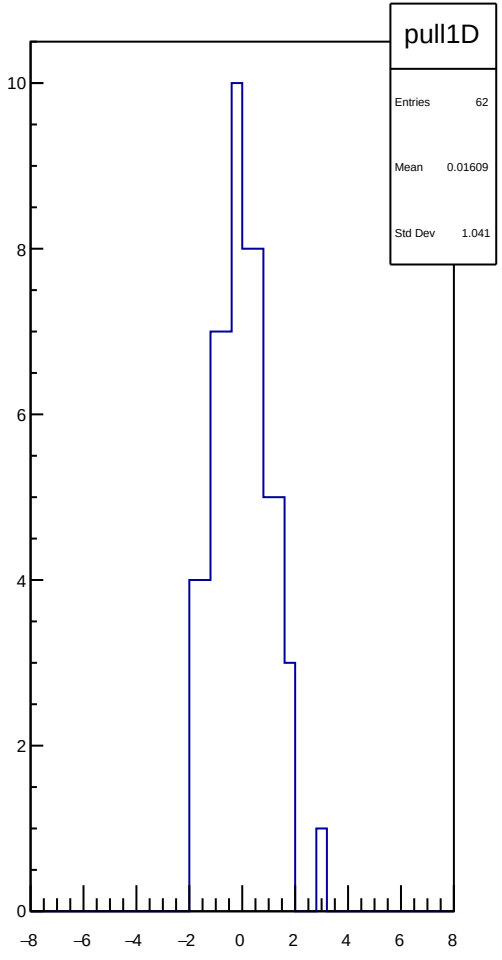

asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.748e+04 / 61
p0 132.9 ± 0.1228
190
180
170
160
150
140
130
120
110

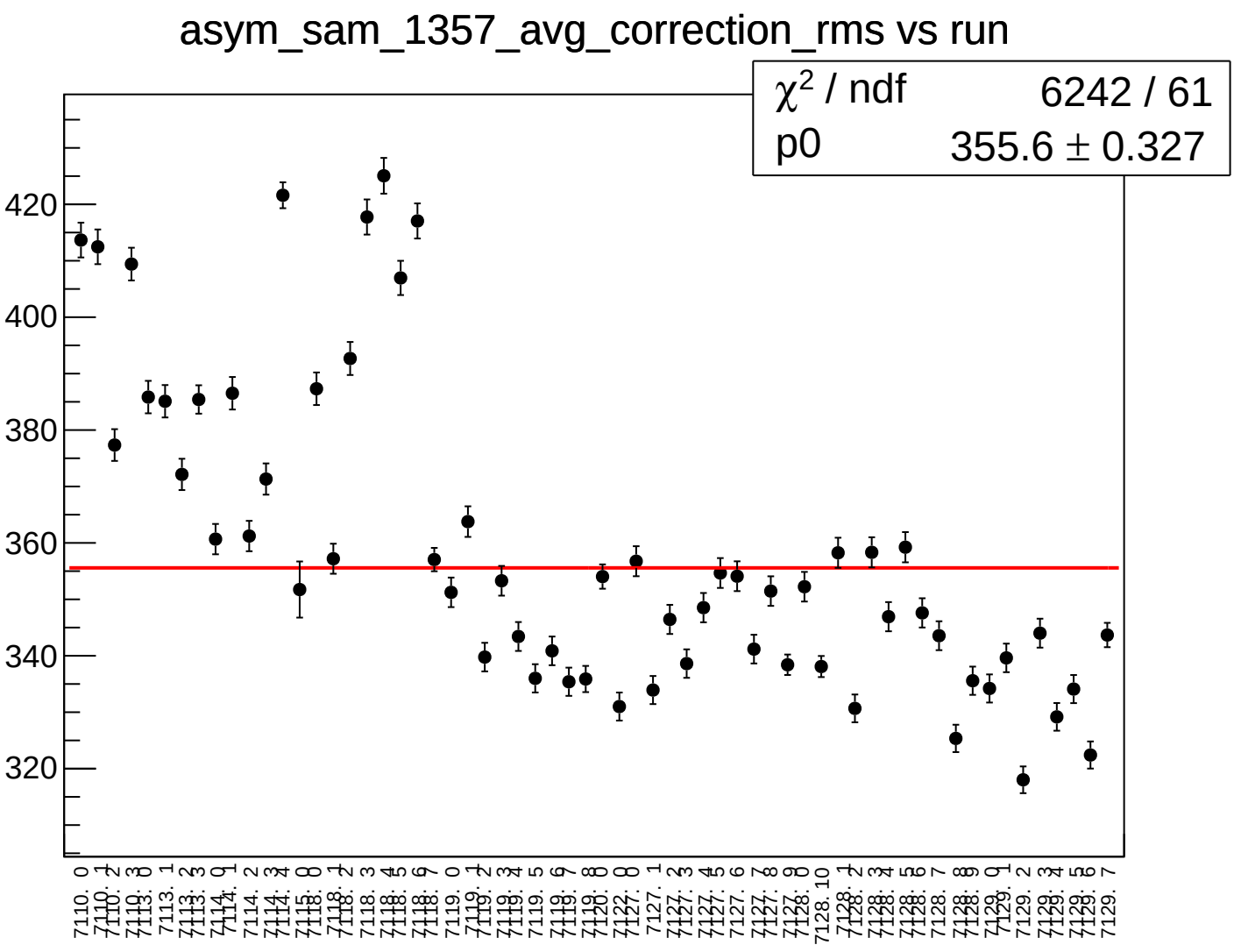

reg_asym_sam_1357_avg_mean vs run
χ^2 / ndf 57.28 / 61
p0 24.05 ± 63.73
pull
Entries 62
Mean −950.4
Std Dev 976.5

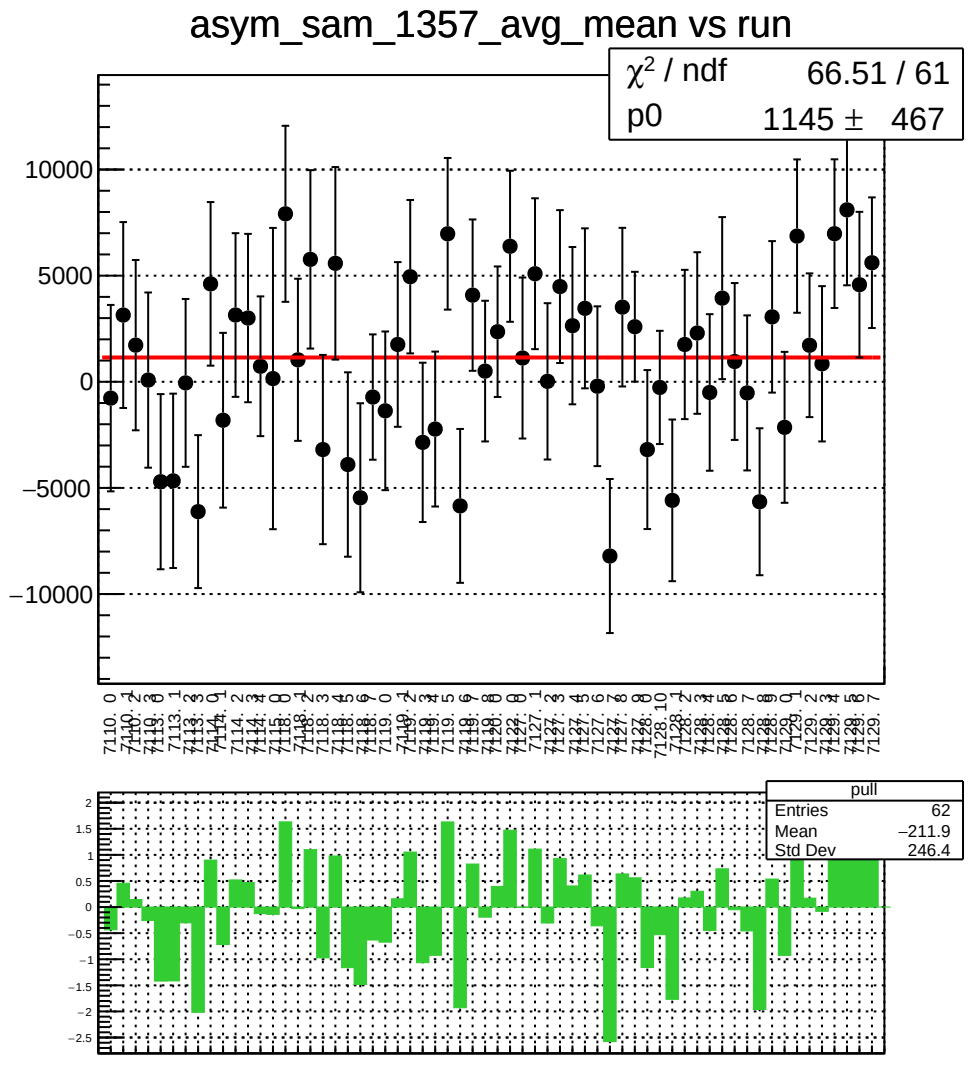

pull1D
Entries 62
Mean 0.002113
Std Dev 0.9612

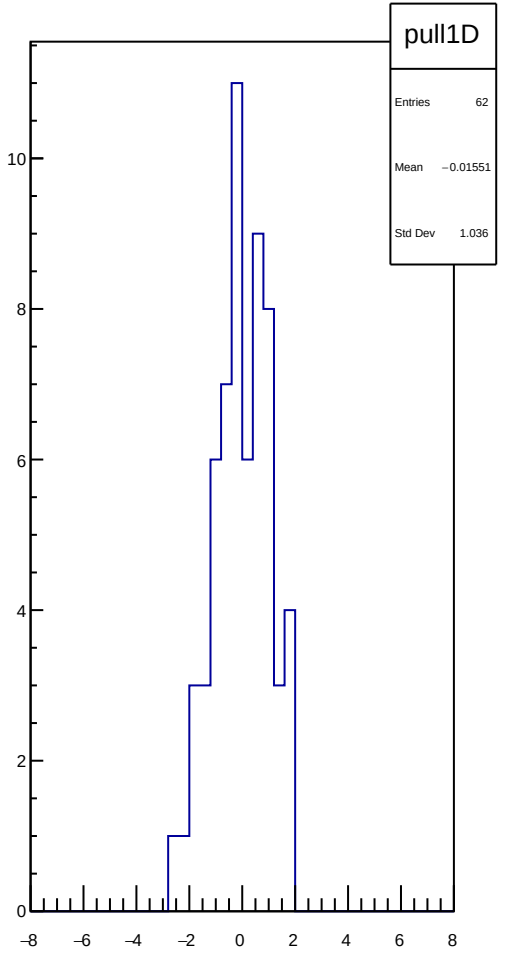

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.176e+04 / 61
p0 48.68 ± 0.04507
70
65
60
55
50
45
7110. 0
7110. 1
7110. 2
7110. 3
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7122. 8
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

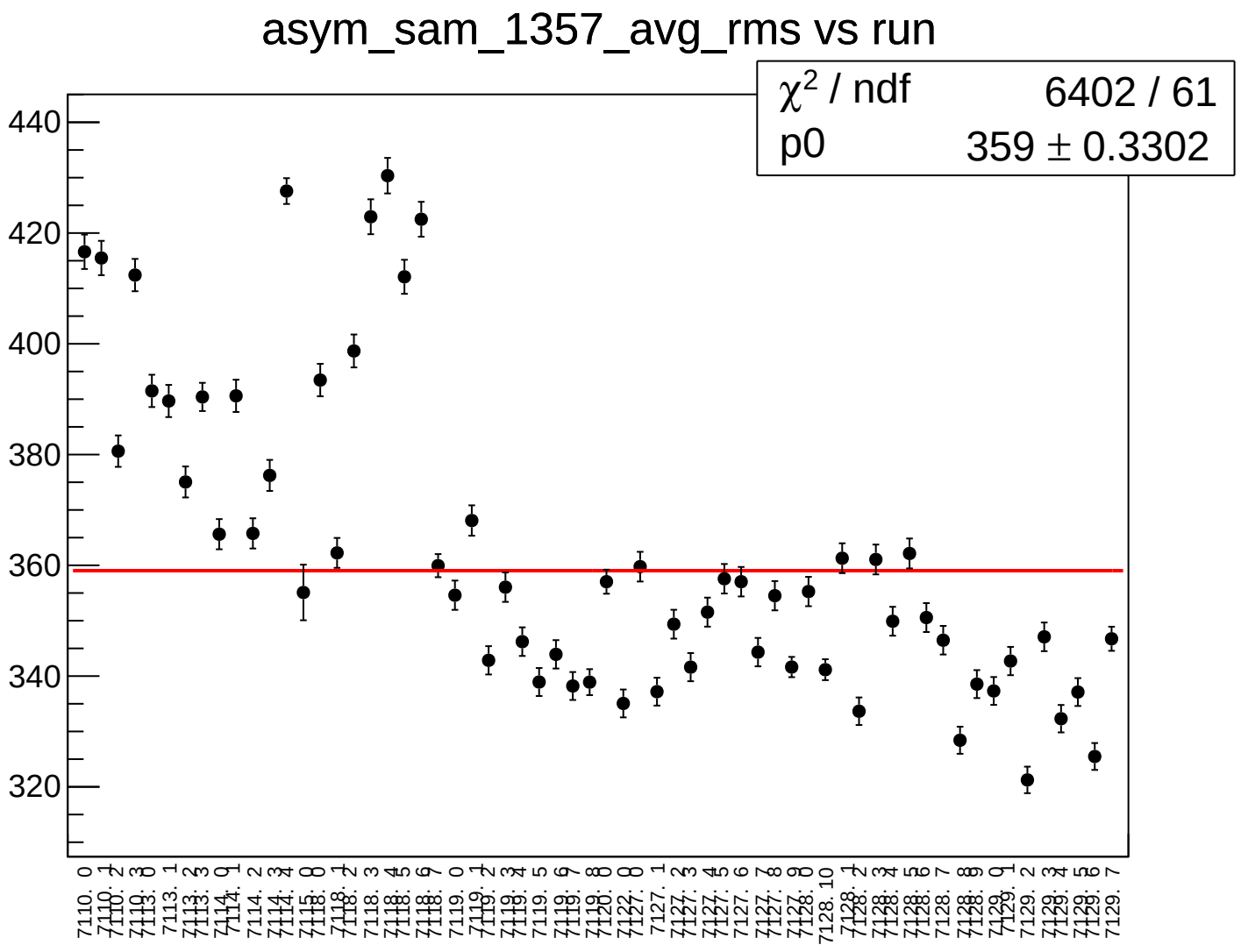

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 67.18 / 61
p0 −1123 ± 462.5
15000
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −220.4
Std Dev 254.4
3
2
1
0
−1
−2

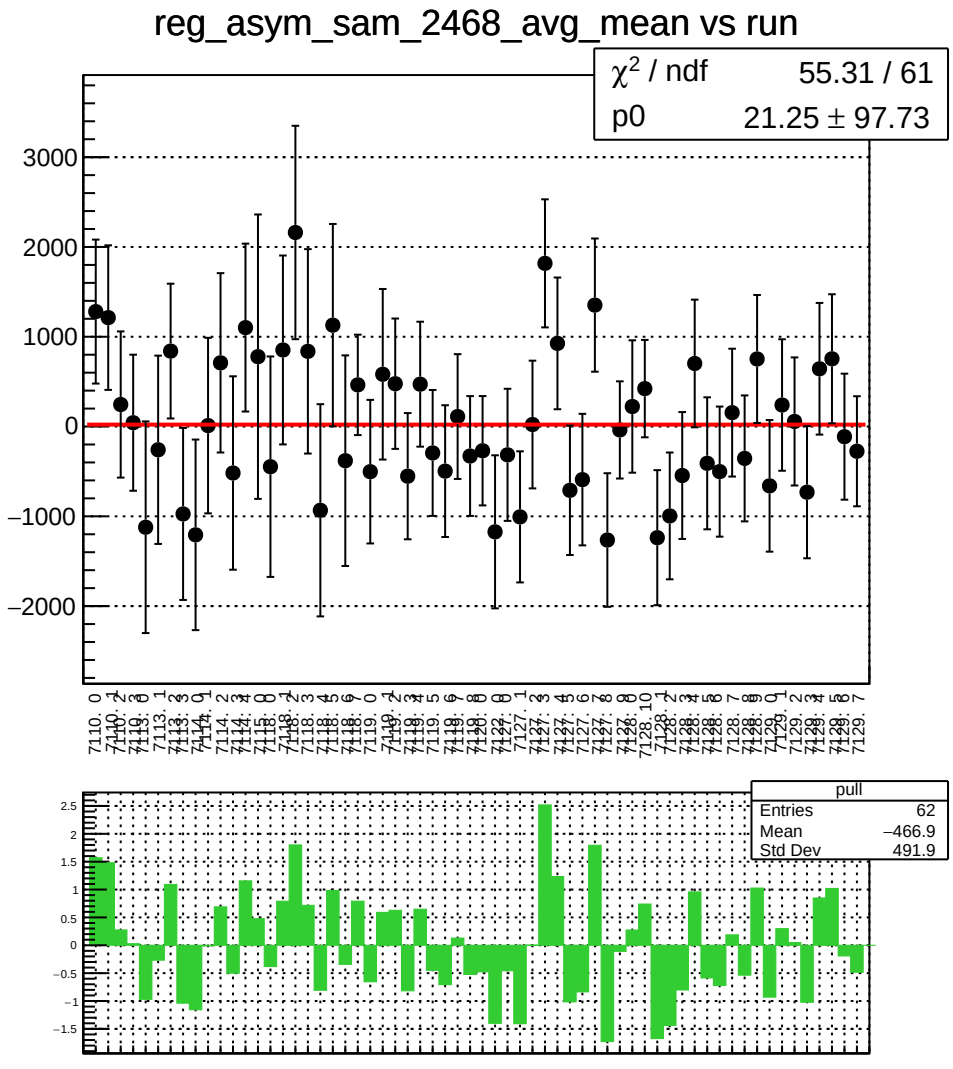

pull1D
Entries 62
Mean 0.01609
Std Dev 1.041
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

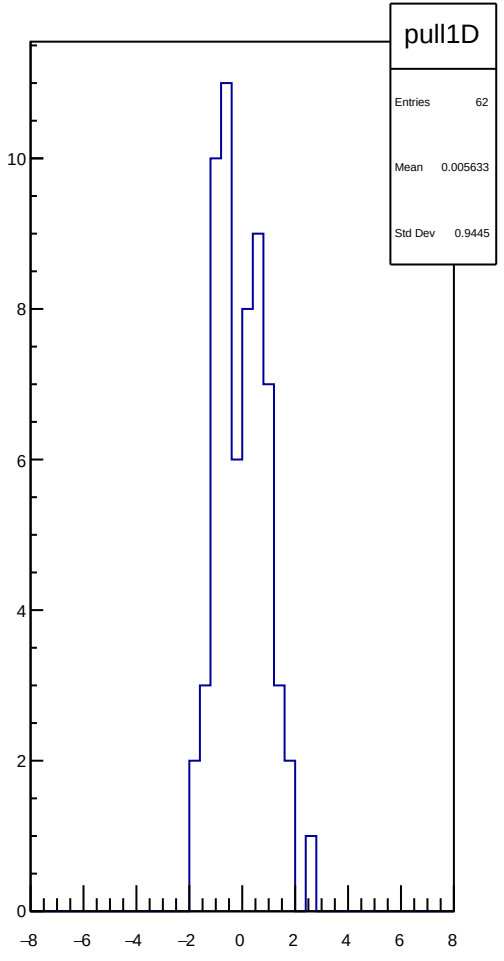

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 6242 / 61
p0 355.6 ± 0.327
420
400
380
360
340
320
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7120. 0
7120. 8
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

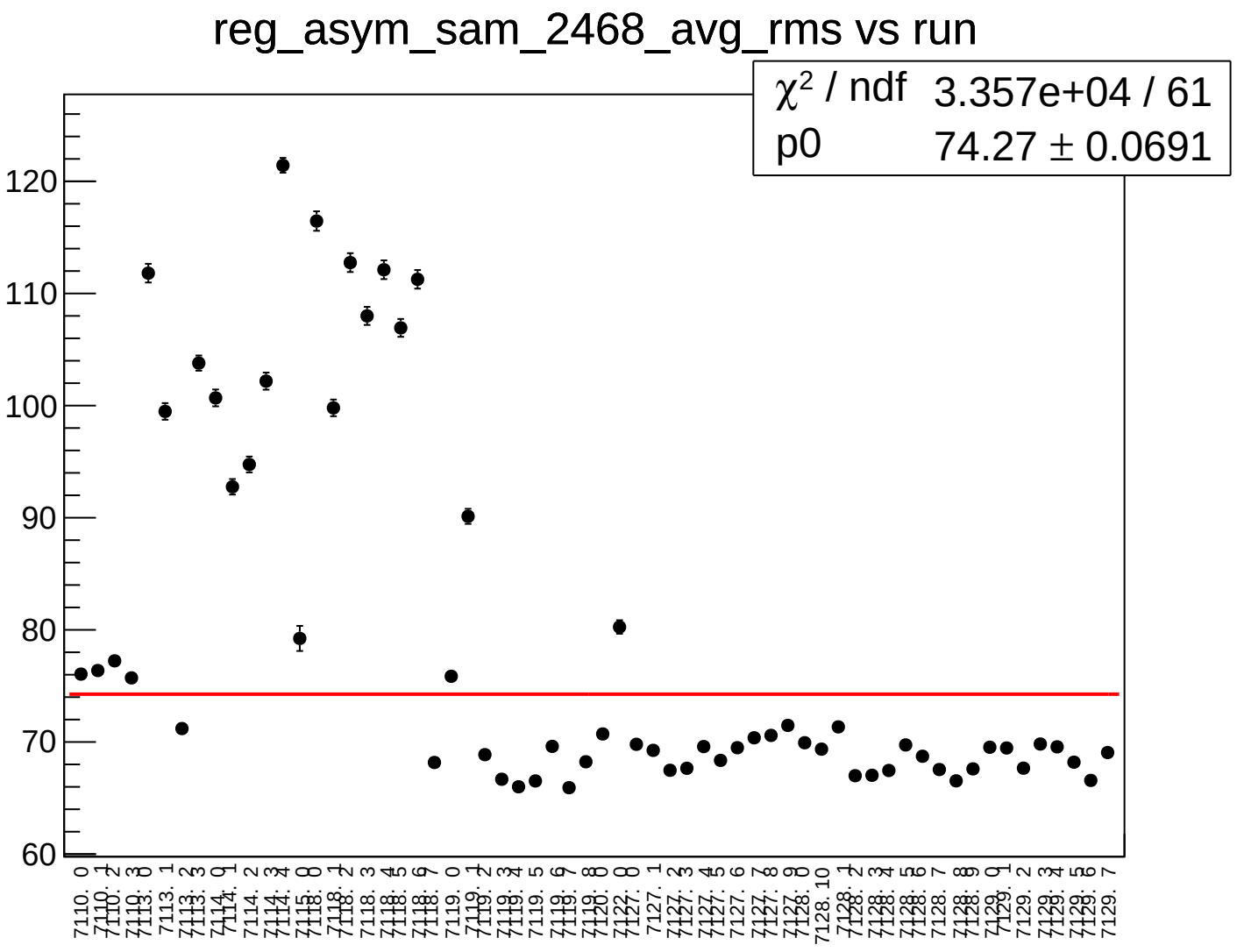

asym_sam_1357_avg_mean vs run
χ² / ndf 66.51 / 61
p0 1145 ± 467
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −211.9
Std Dev 246.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

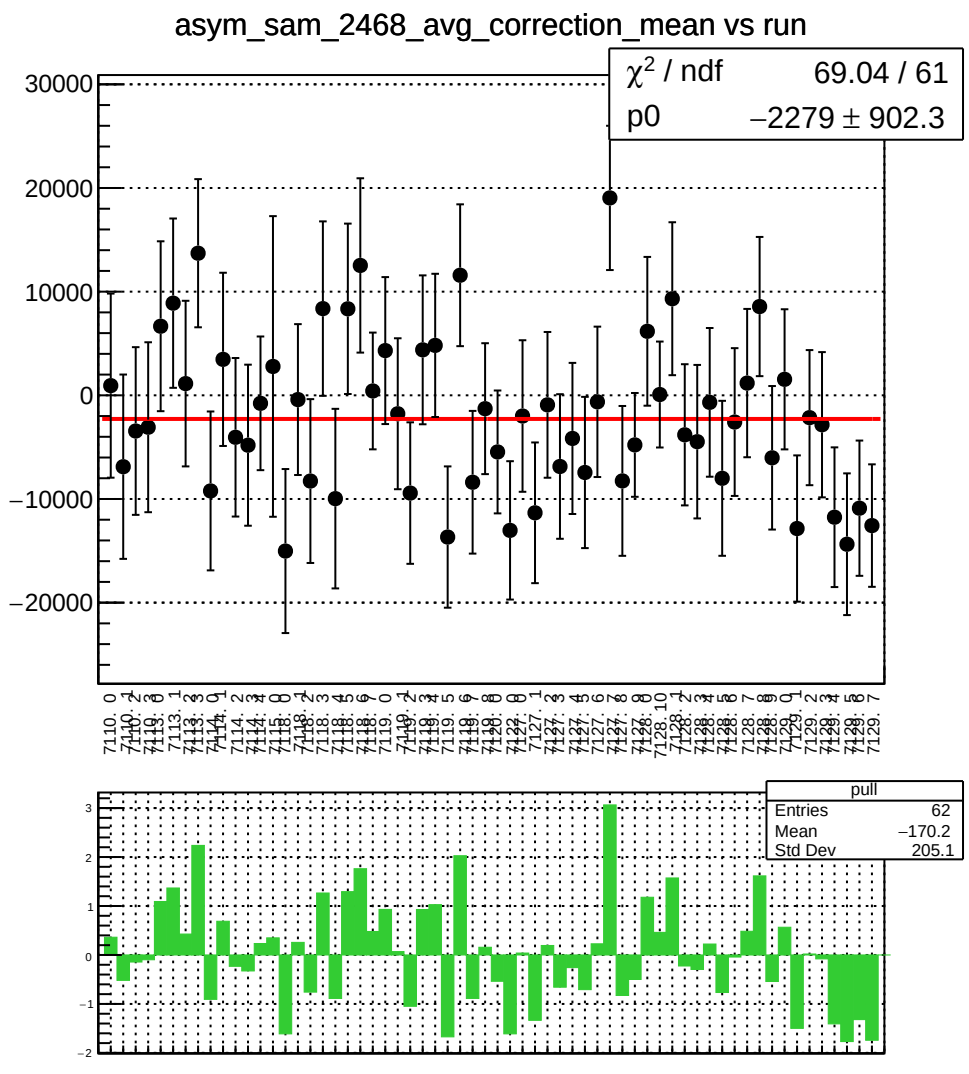

pull1D
Entries 62
Mean −0.01551
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

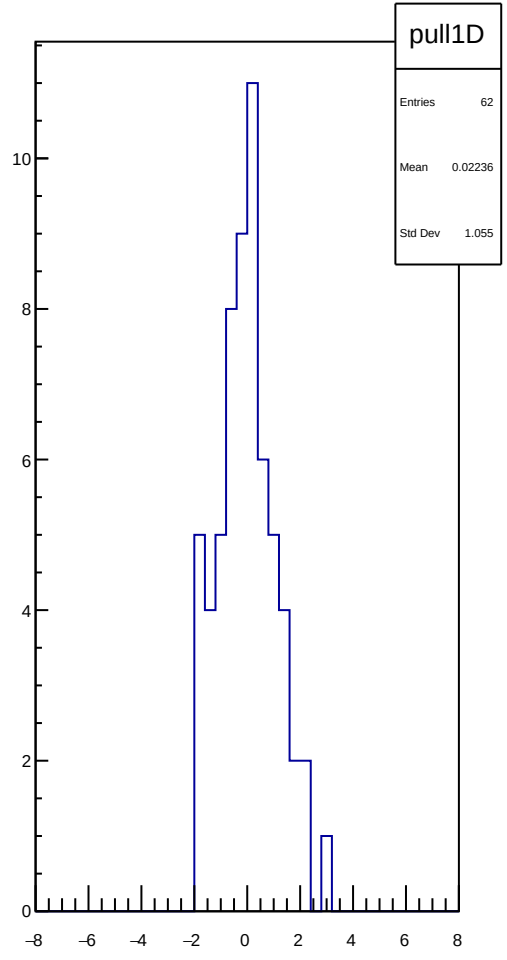

asym_sam_1357_avg_rms vs run
χ^2 / ndf 6402 / 61
p0 359 ± 0.3302
440
420
400
380
360
340
320
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7122. 8
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

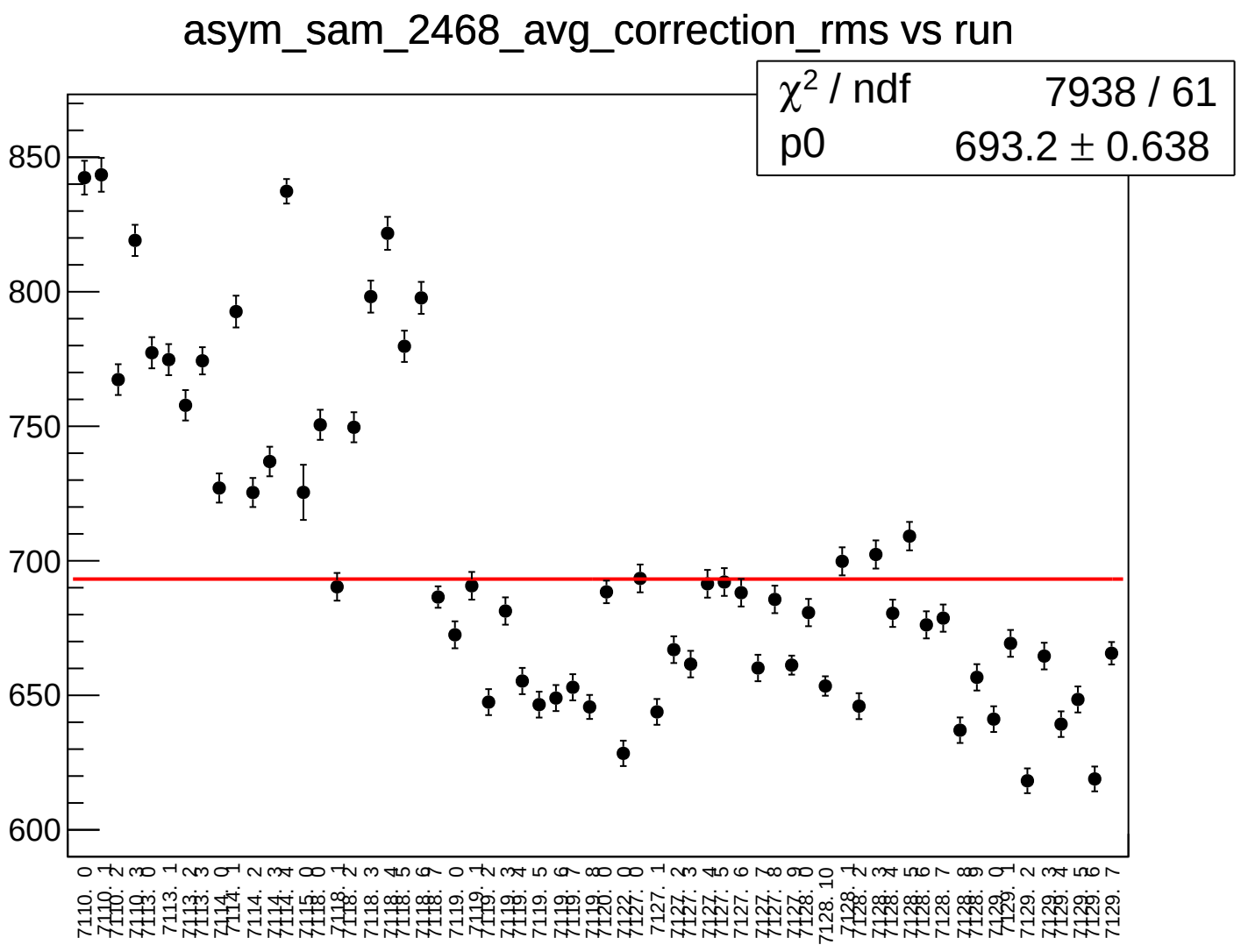

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 55.31 / 61
p0 21.25 ± 97.73
3000
2000
1000
0
−1000
−2000
pull
Entries 62
Mean −466.9
Std Dev 491.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

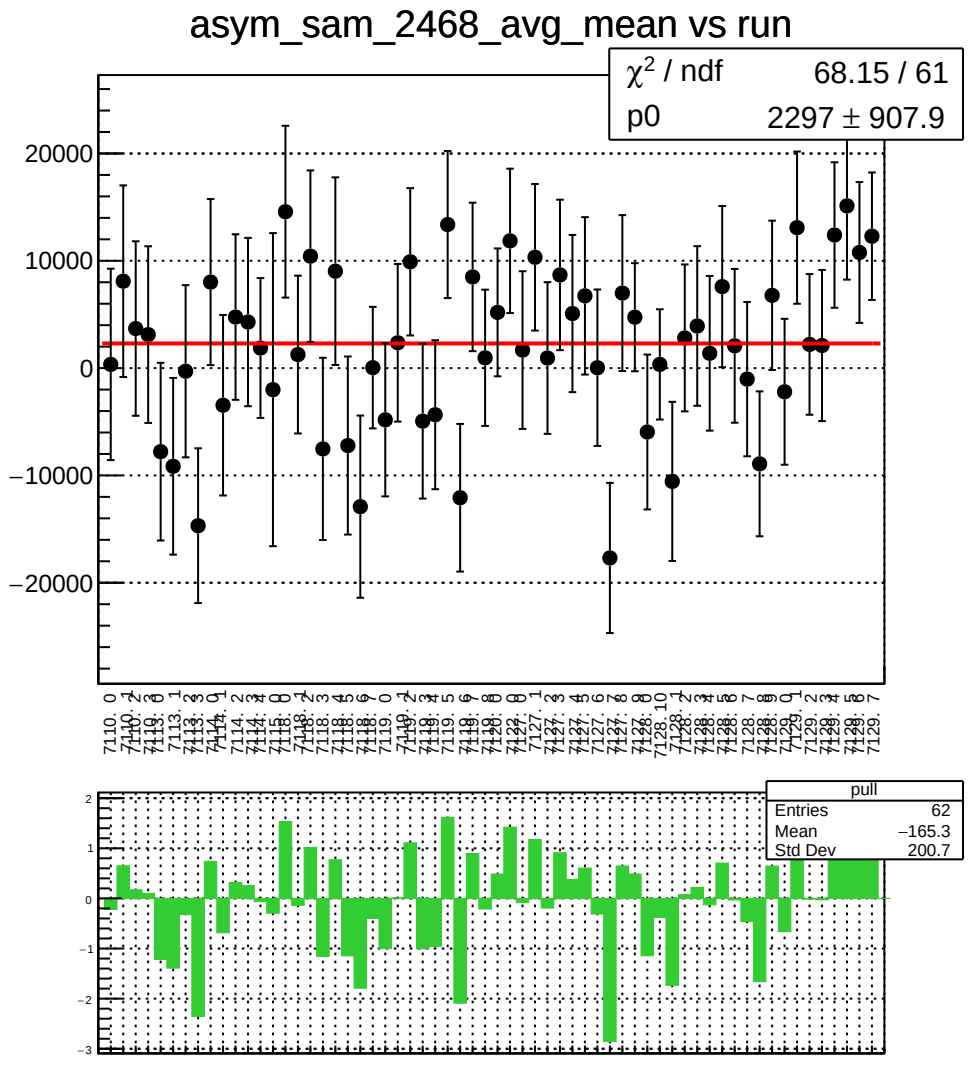

pull1D
Entries 62
Mean 0.005633
Std Dev 0.9445
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

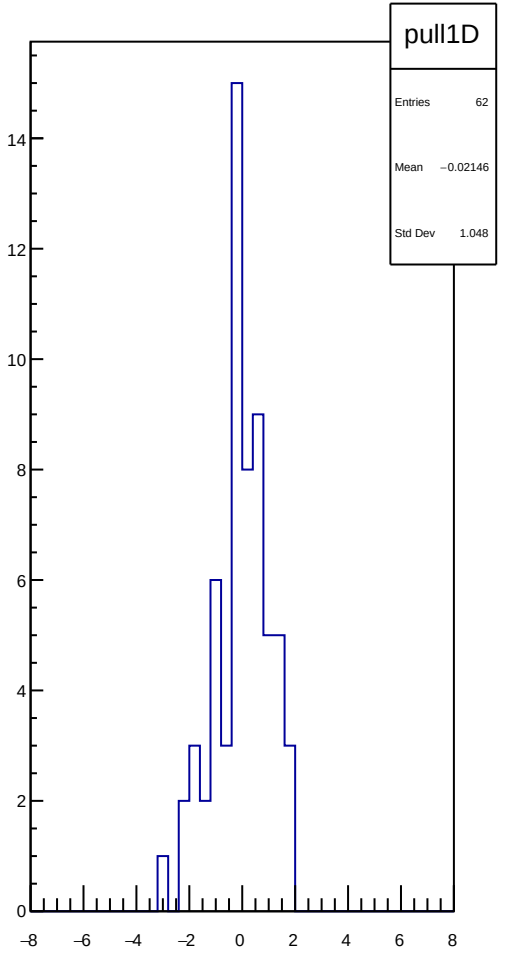

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 3.357e+04 / 61
p0 74.27 ± 0.0691
120
110
100
90
80
70
60

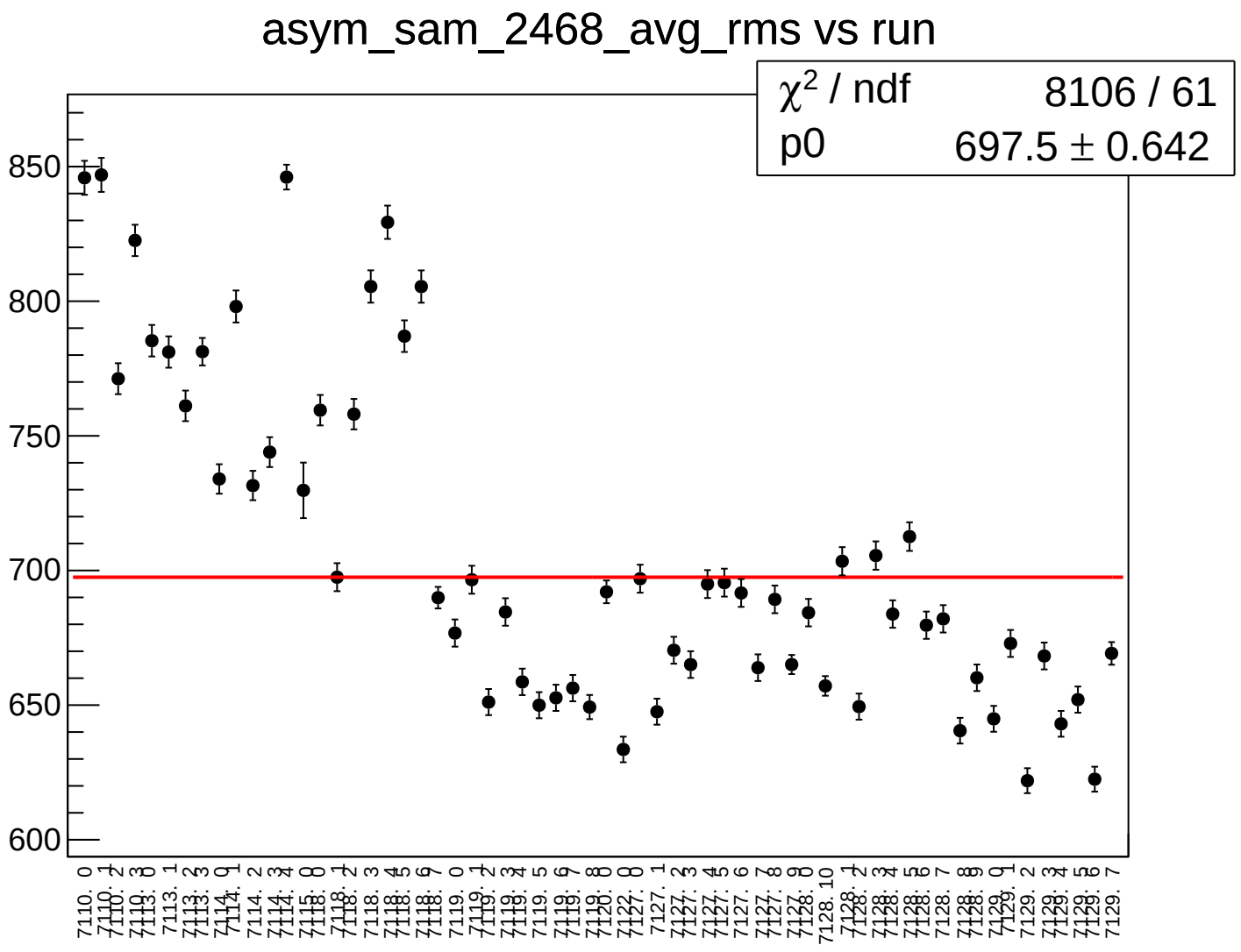

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 69.04 / 61
p0 −2279 ± 902.3
30000
20000
10000
0
−10000
−20000
pull
Entries 62
Mean −170.2
Std Dev 205.1
3
2
1
0
−1
−2

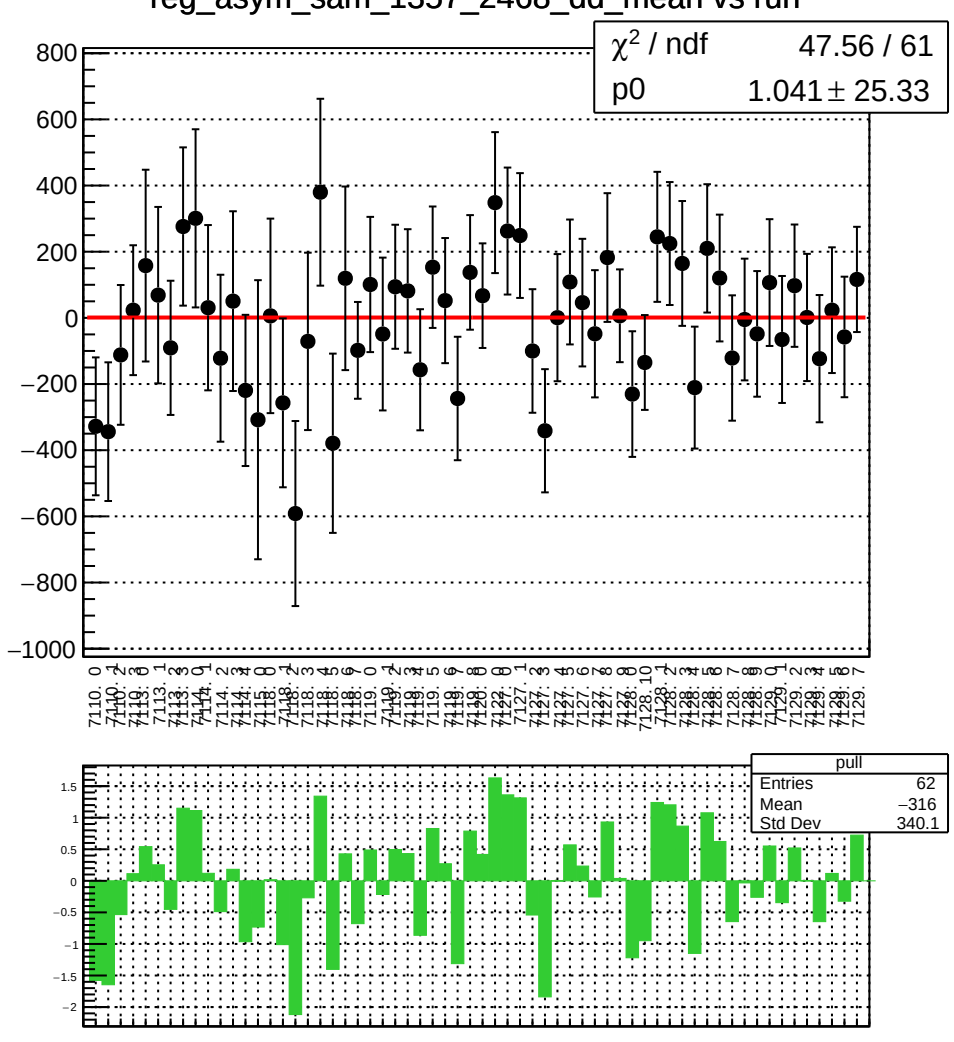

pull1D
Entries 62
Mean 0.02236
Std Dev 1.055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

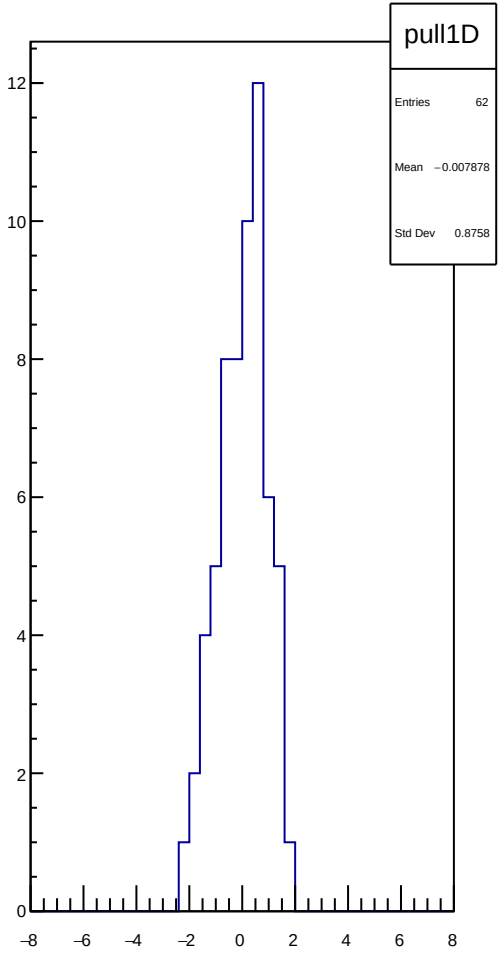

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 7938 / 61
p0 693.2 ± 0.638
850
800
750
700
650
600

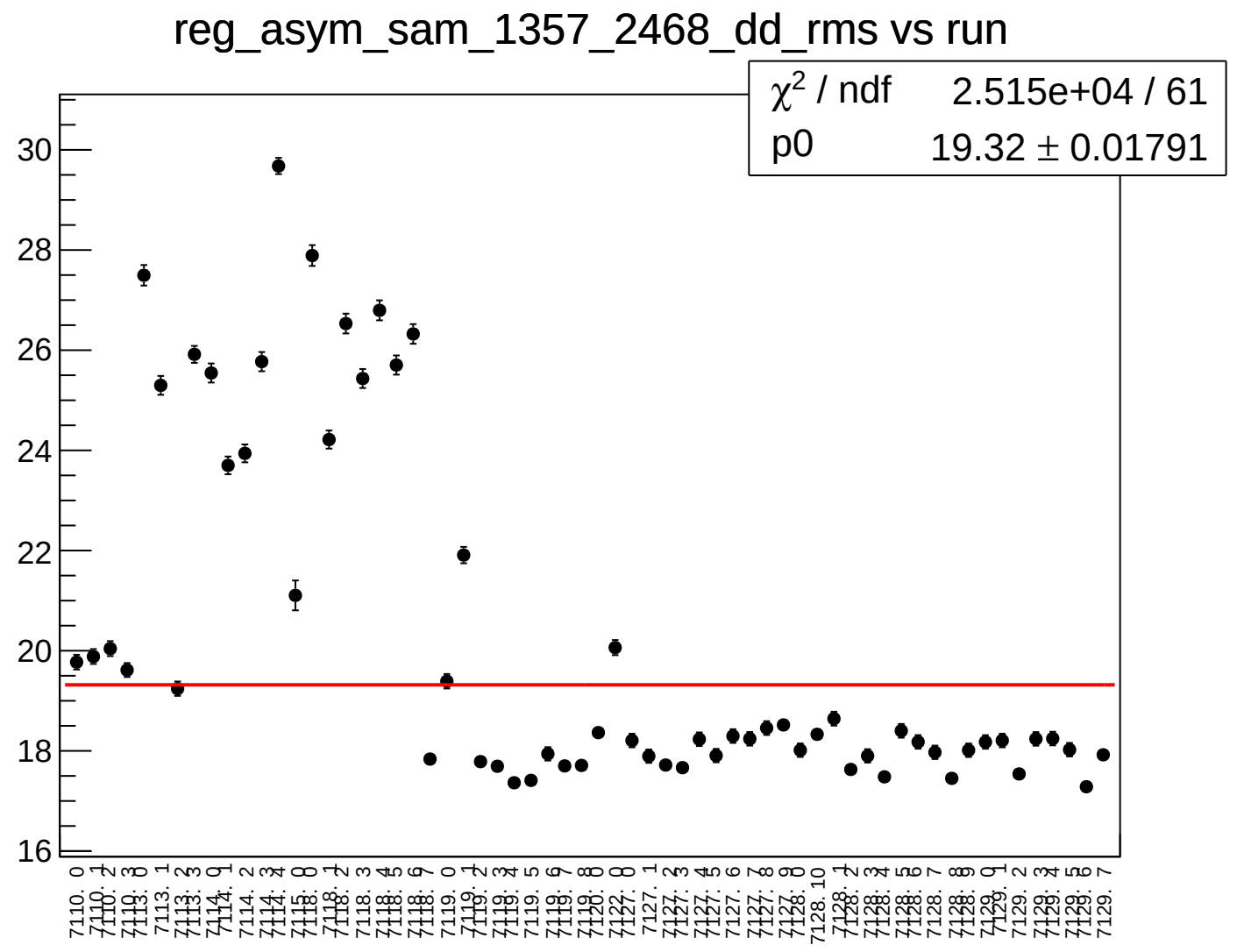

asym_sam_2468_avg_mean vs run
χ² / ndf 68.15 / 61
p0 2297 ± 907.9
20000
10000
0
−10000
−20000
pull
Entries 62
Mean −165.3
Std Dev 200.7
2
1
0
−1
−2
−3

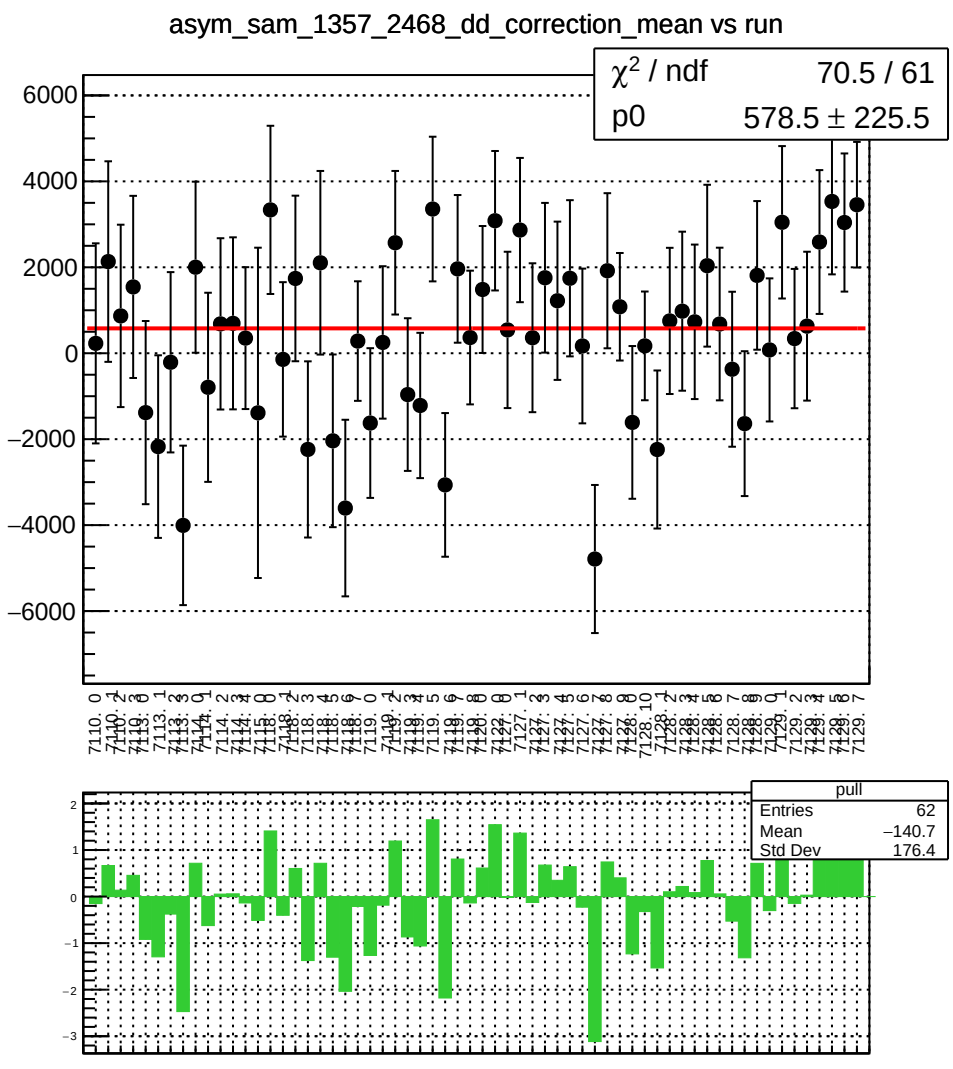

pull1D
Entries 62
Mean −0.02146
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

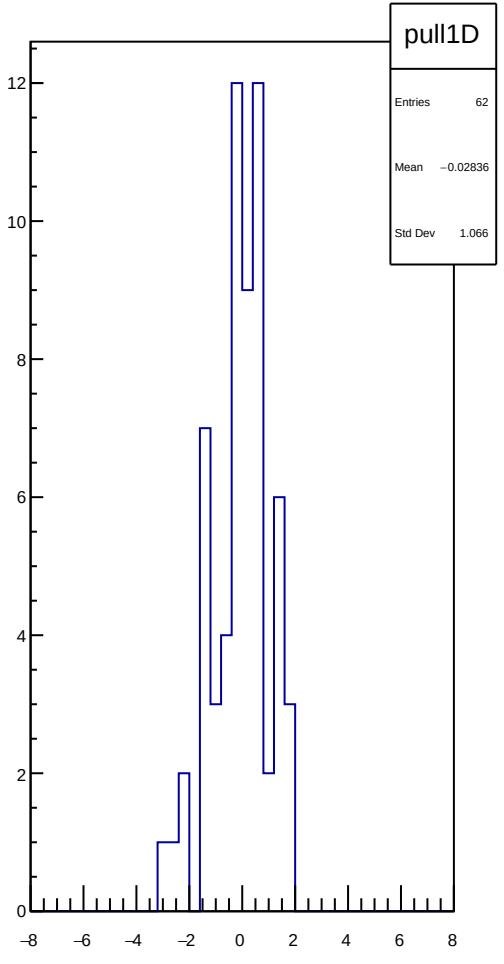

asym_sam_2468_avg_rms vs run
χ² / ndf 8106 / 61
p0 697.5 ± 0.642
850
800
750
700
650
600

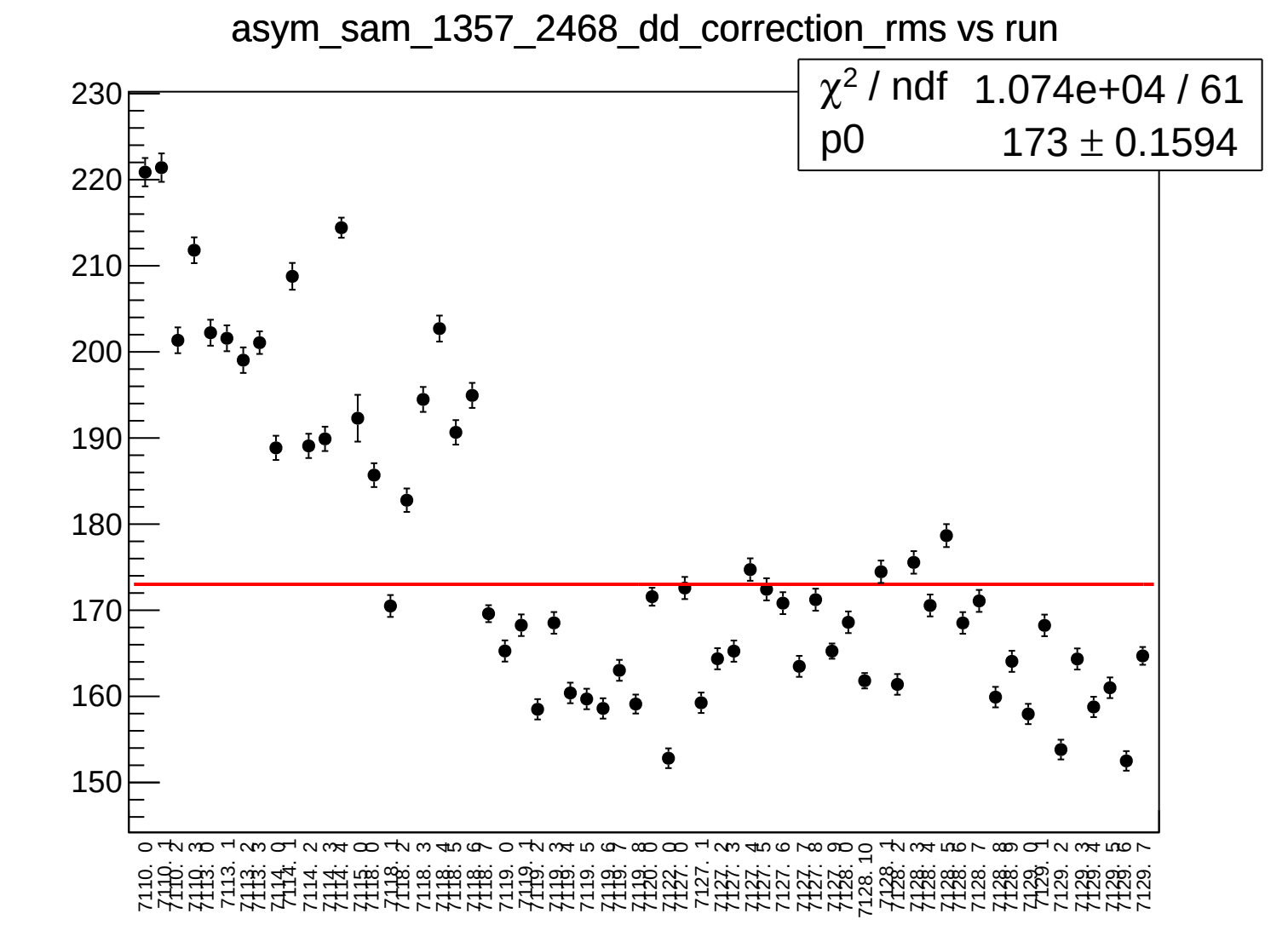

reg_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 47.56 / 61
p0 1.041 ± 25.33
pull
Entries 62
Mean −316
Std Dev 340.1

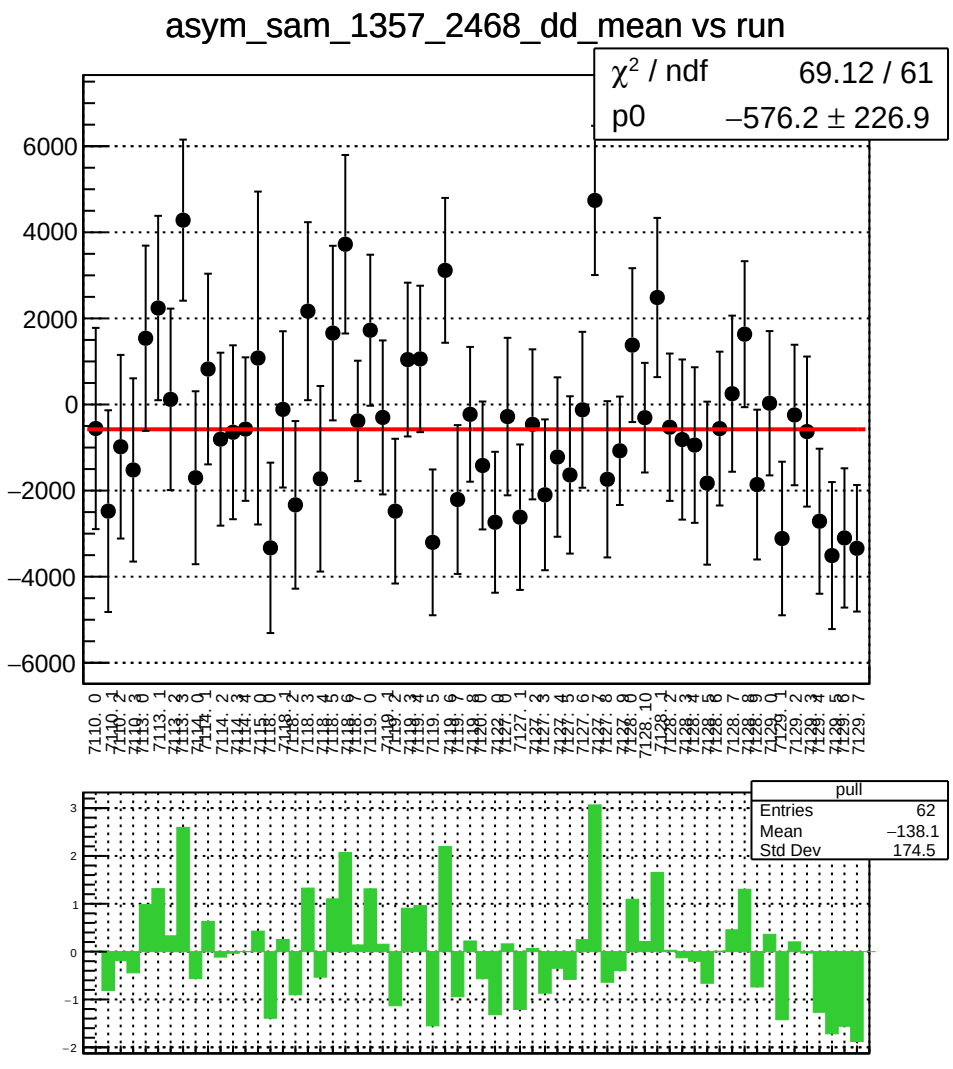

pull1D
Entries 62
Mean −0.007878
Std Dev 0.8758

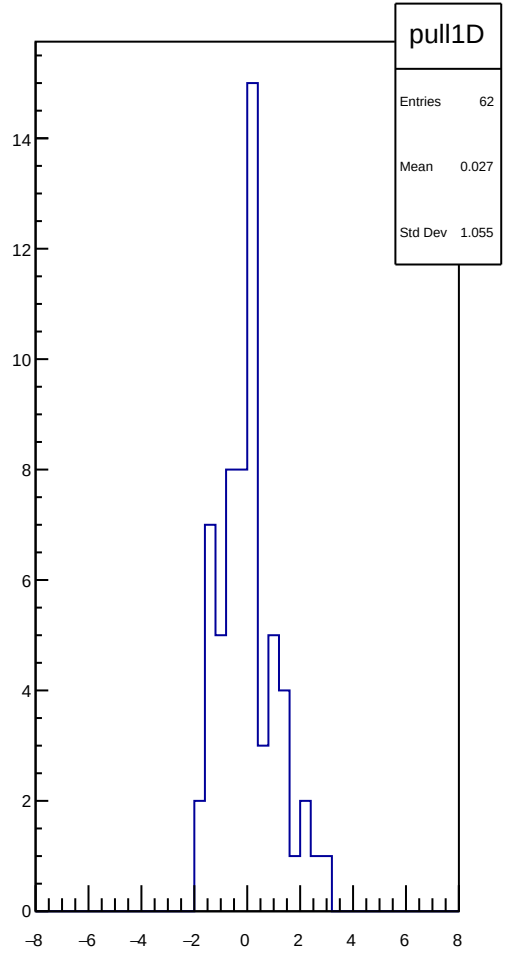

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.515e+04 / 61
p0 19.32 ± 0.01791
30
28
26
24
22
20
18
16
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

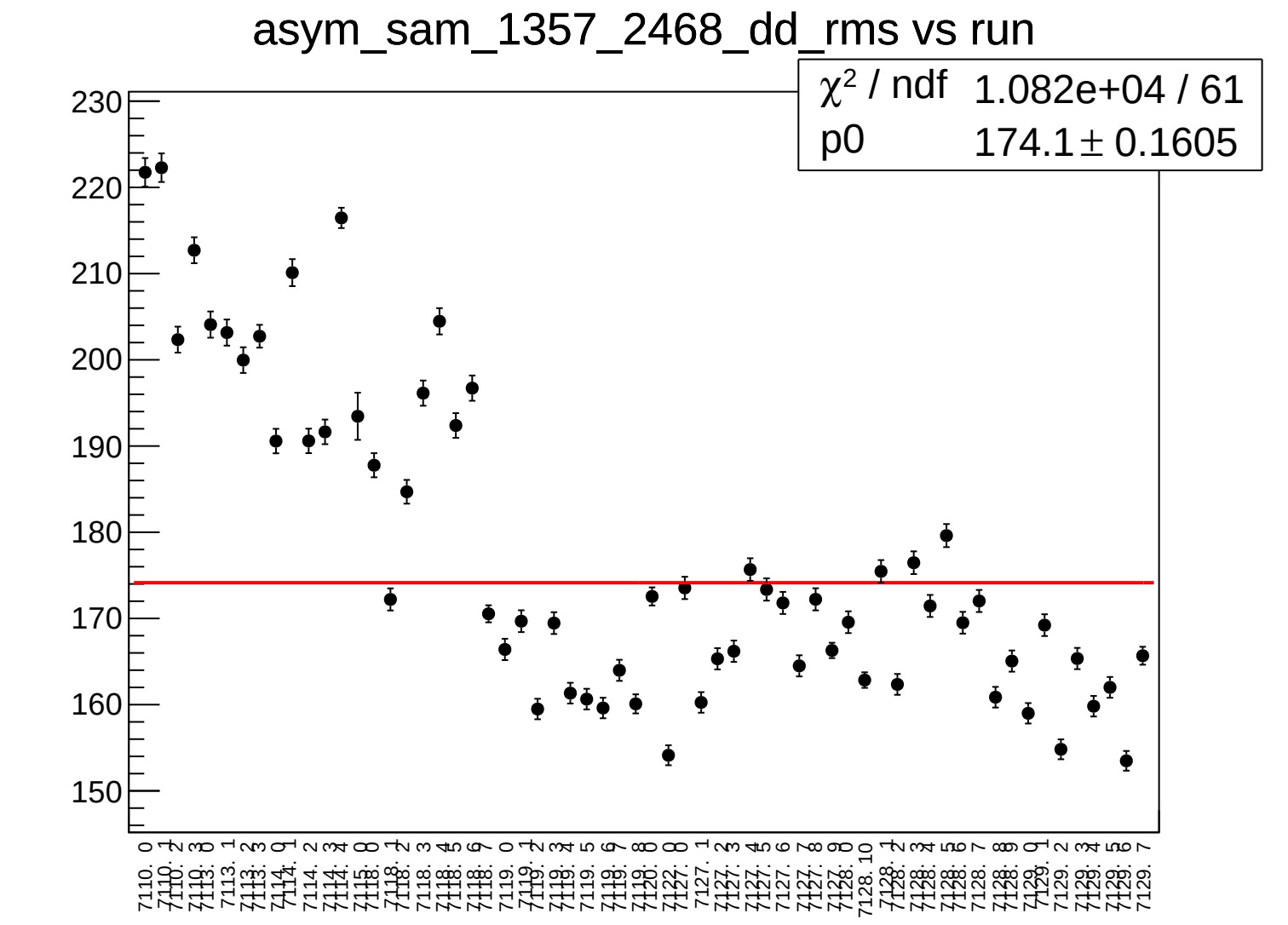

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 70.5 / 61
p0 578.5 ± 225.5
pull
Entries 62
Mean −140.7
Std Dev 176.4

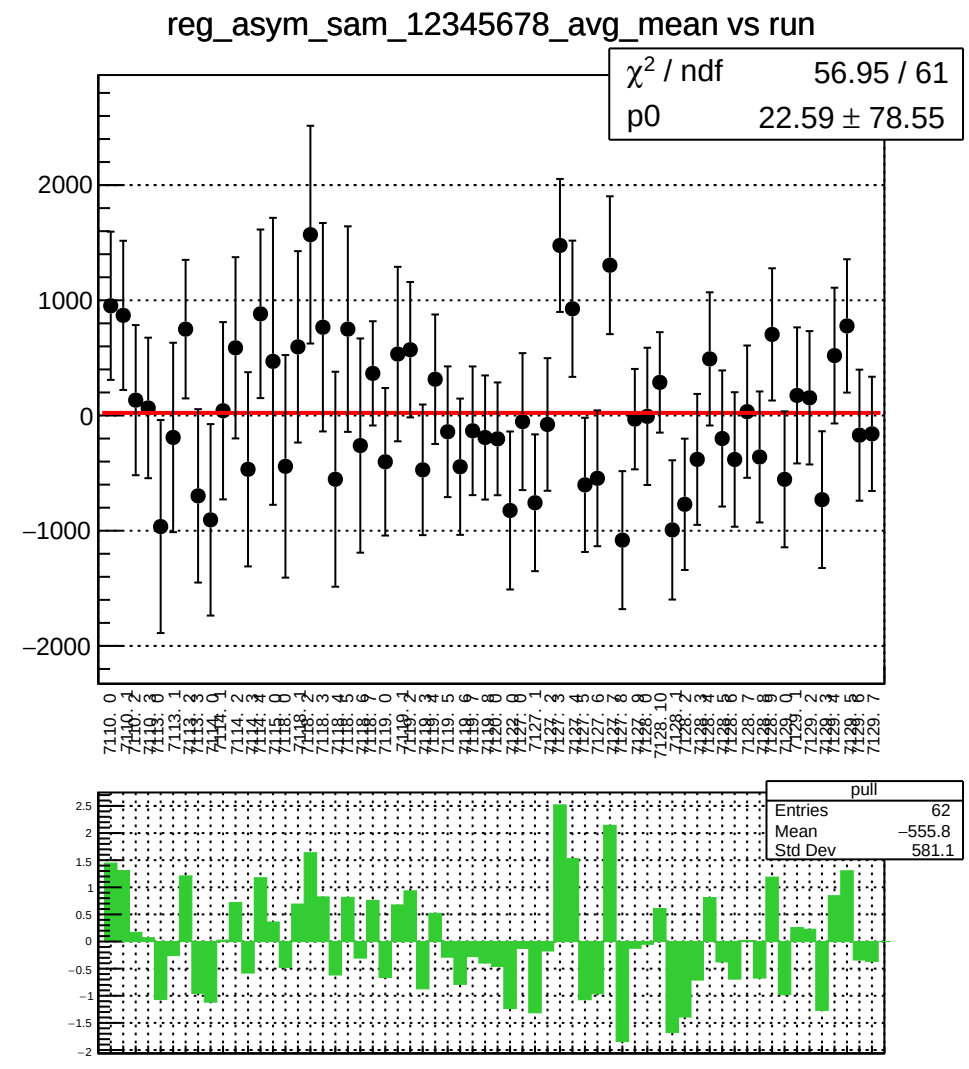

pull1D
Entries 62
Mean −0.02836
Std Dev 1.066

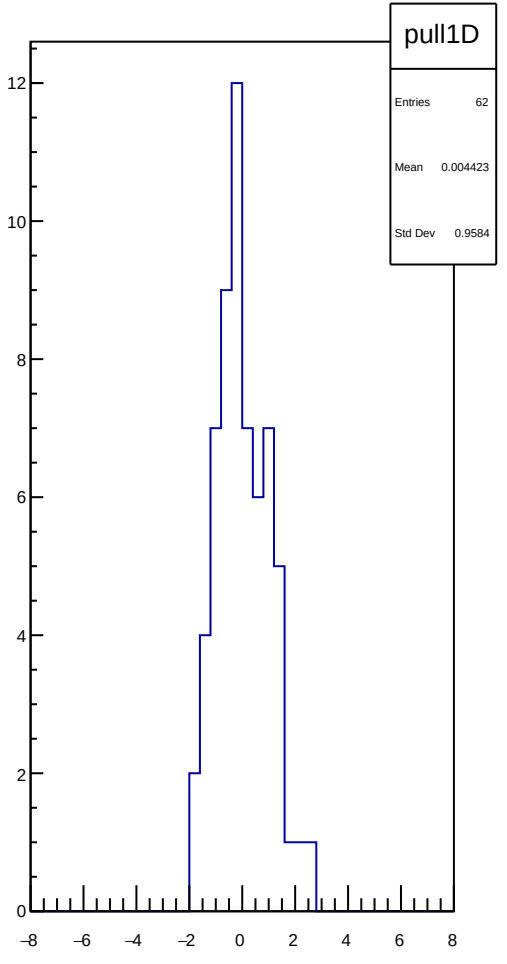

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1.074e+04 / 61
p0 173 ± 0.1594
230
220
210
200
190
180
170
160
150

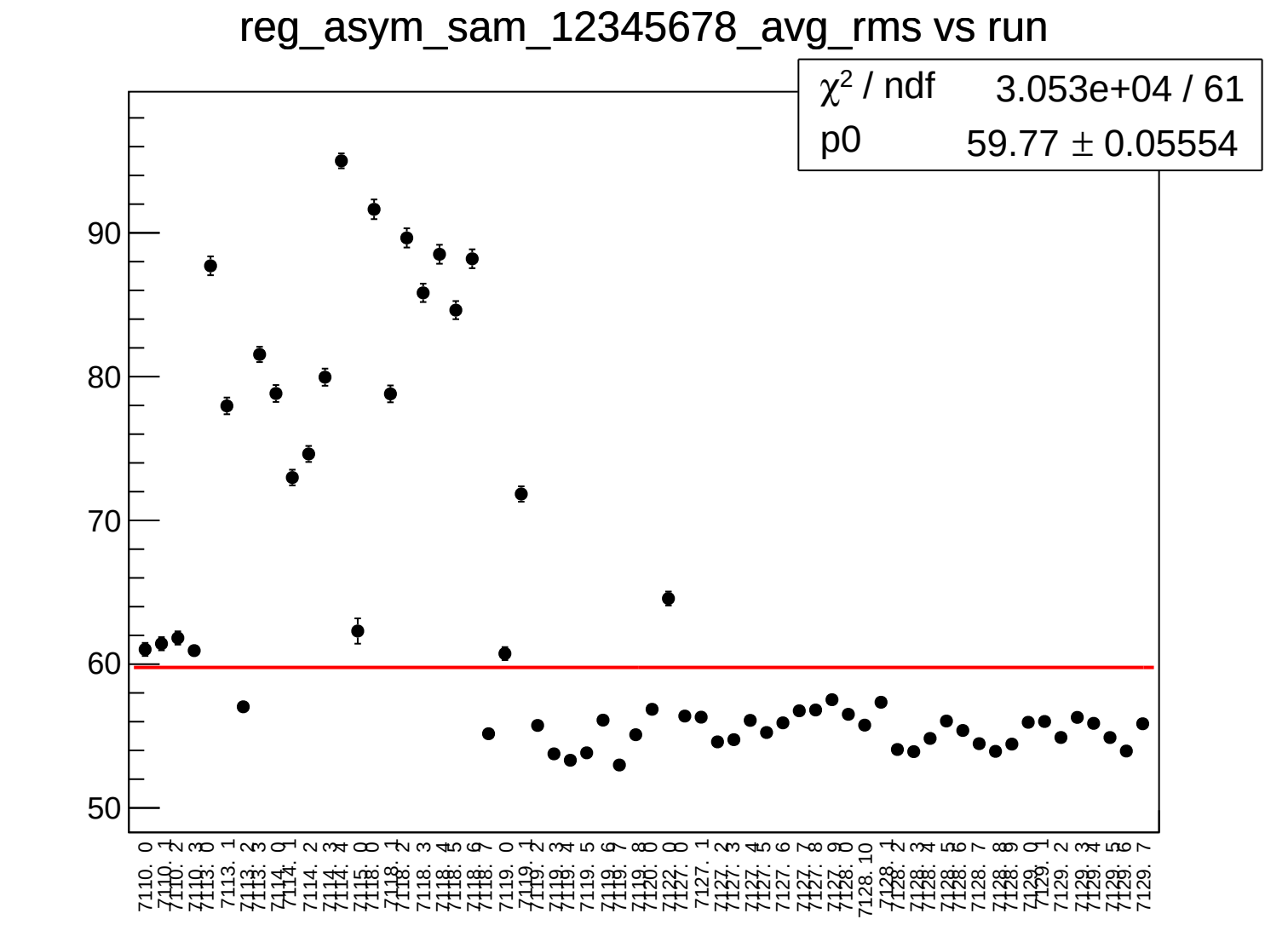

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 69.12 / 61
p0 −576.2 ± 226.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 62
Mean −138.1
Std Dev 174.5
3
2
1
0
−1
−2

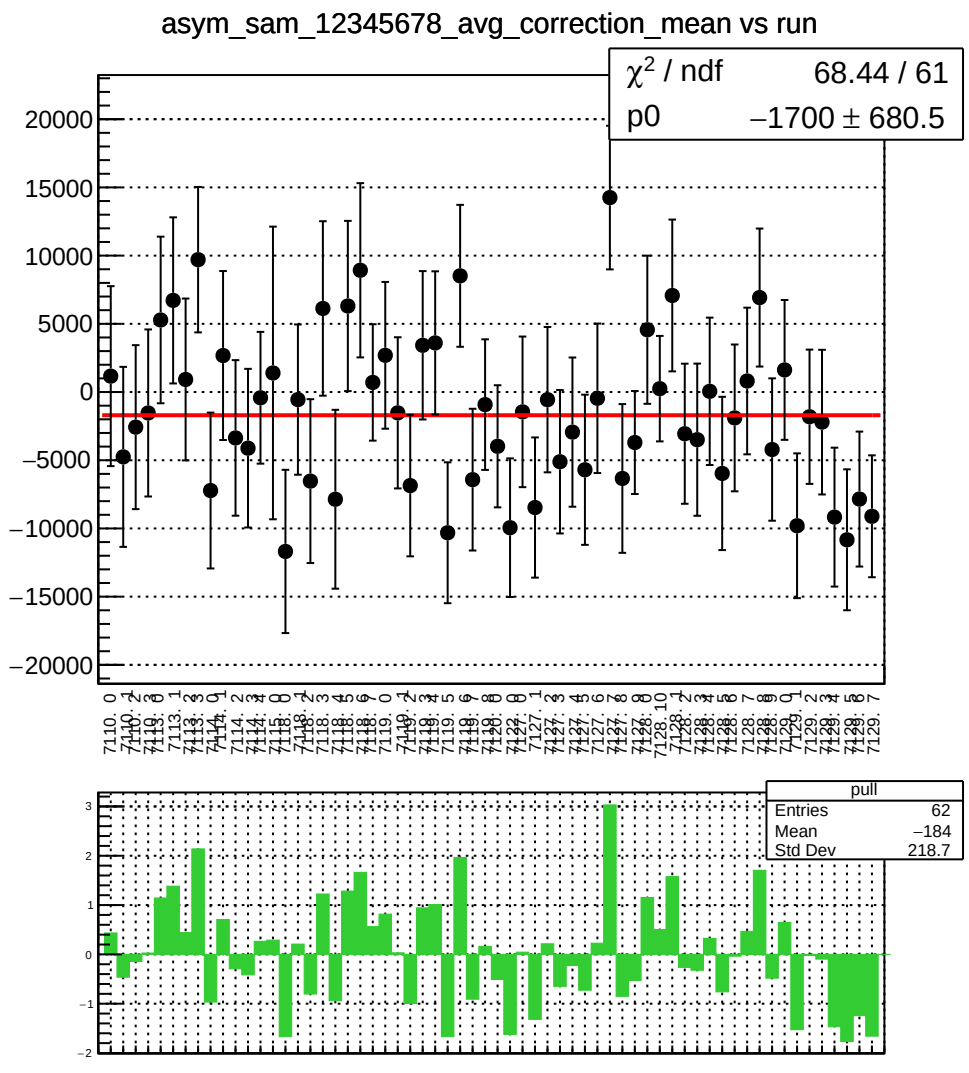

pull1D
Entries 62
Mean 0.027
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

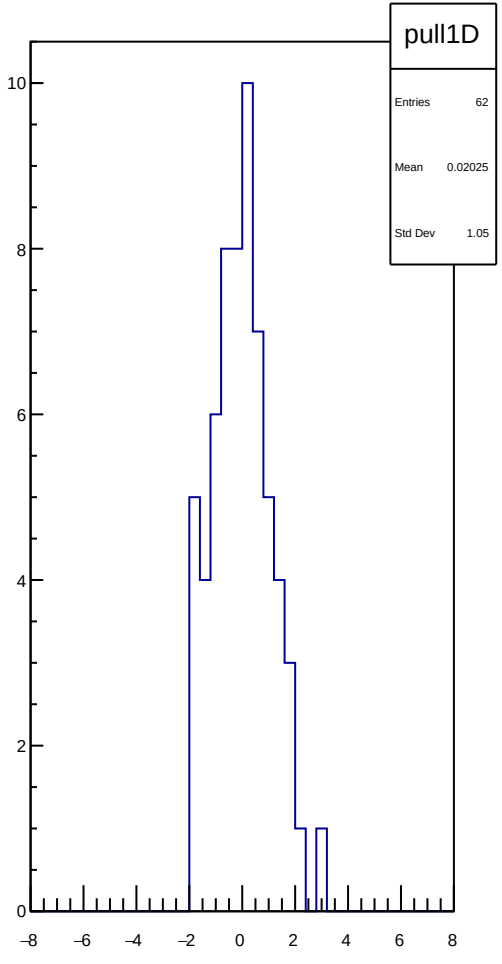

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.082e+04 / 61
p0 174.1 ± 0.1605
230
220
210
200
190
180
170
160
150
7110. 0
7110. 1
7110. 2
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7127. 9
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

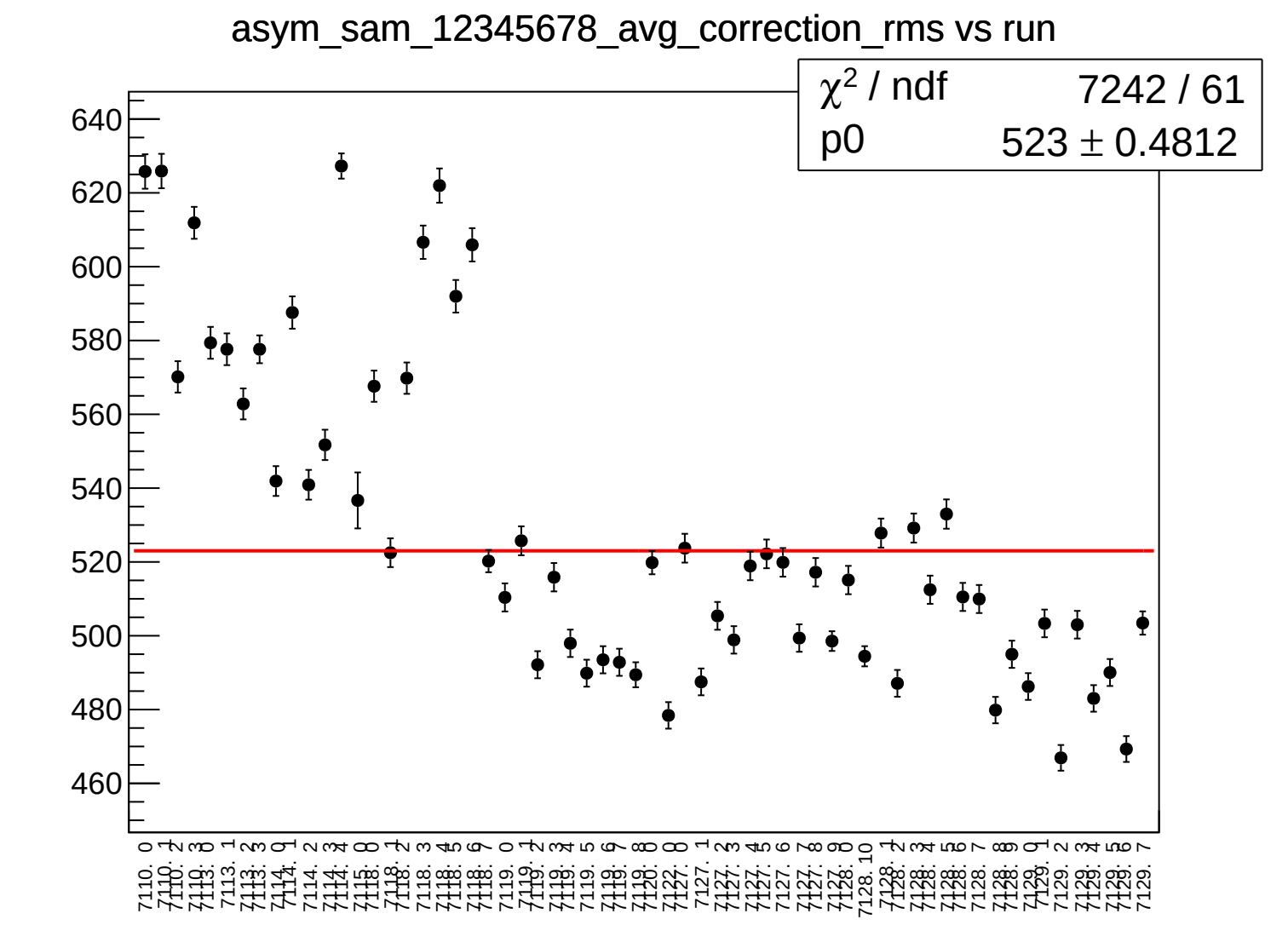

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 56.95 / 61
p0 22.59 ± 78.55
2000
1000
0
−1000
−2000
pull
Entries 62
Mean −555.8
Std Dev 581.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

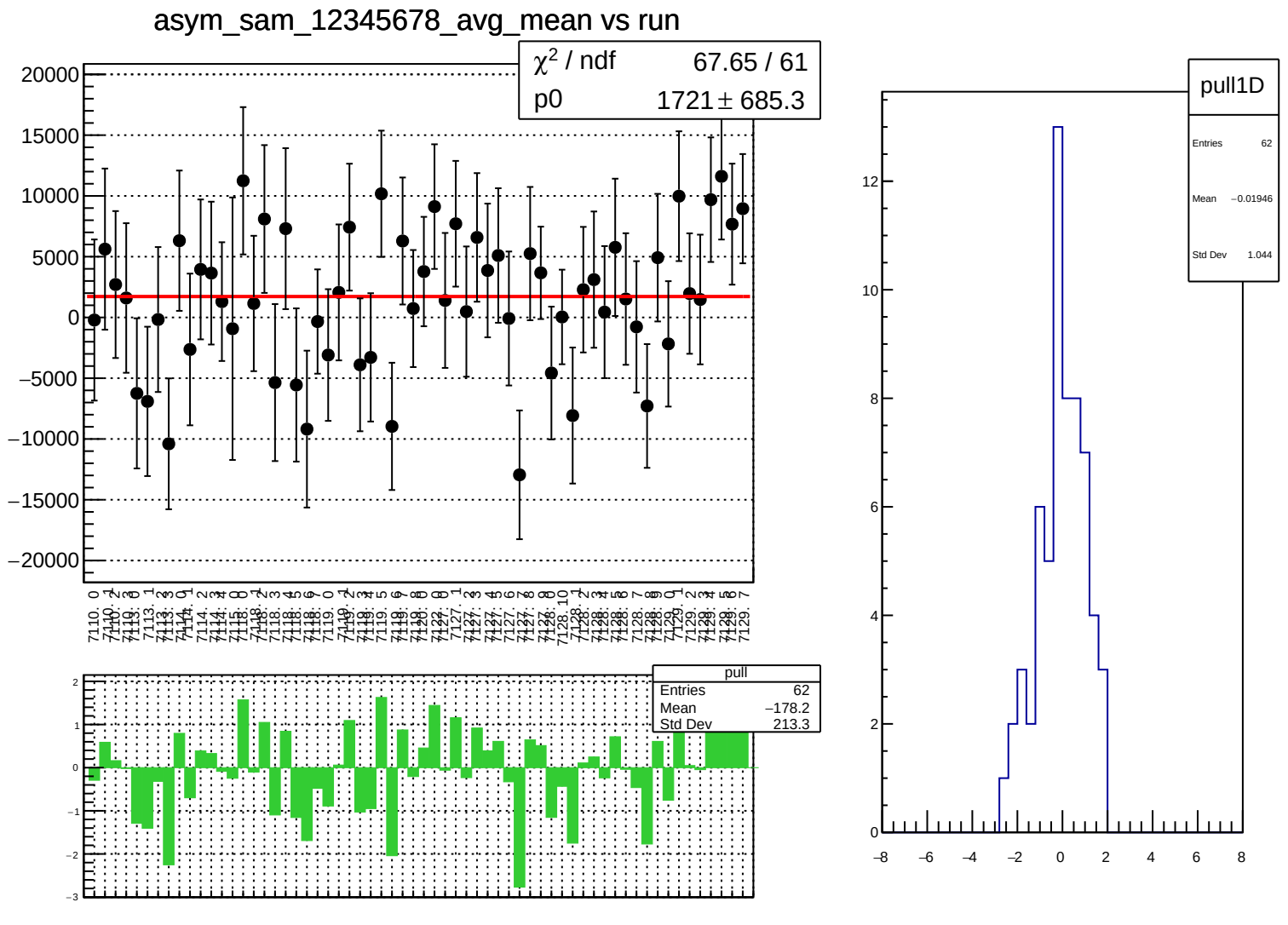

pull1D
Entries 62
Mean 0.004423
Std Dev 0.9584
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

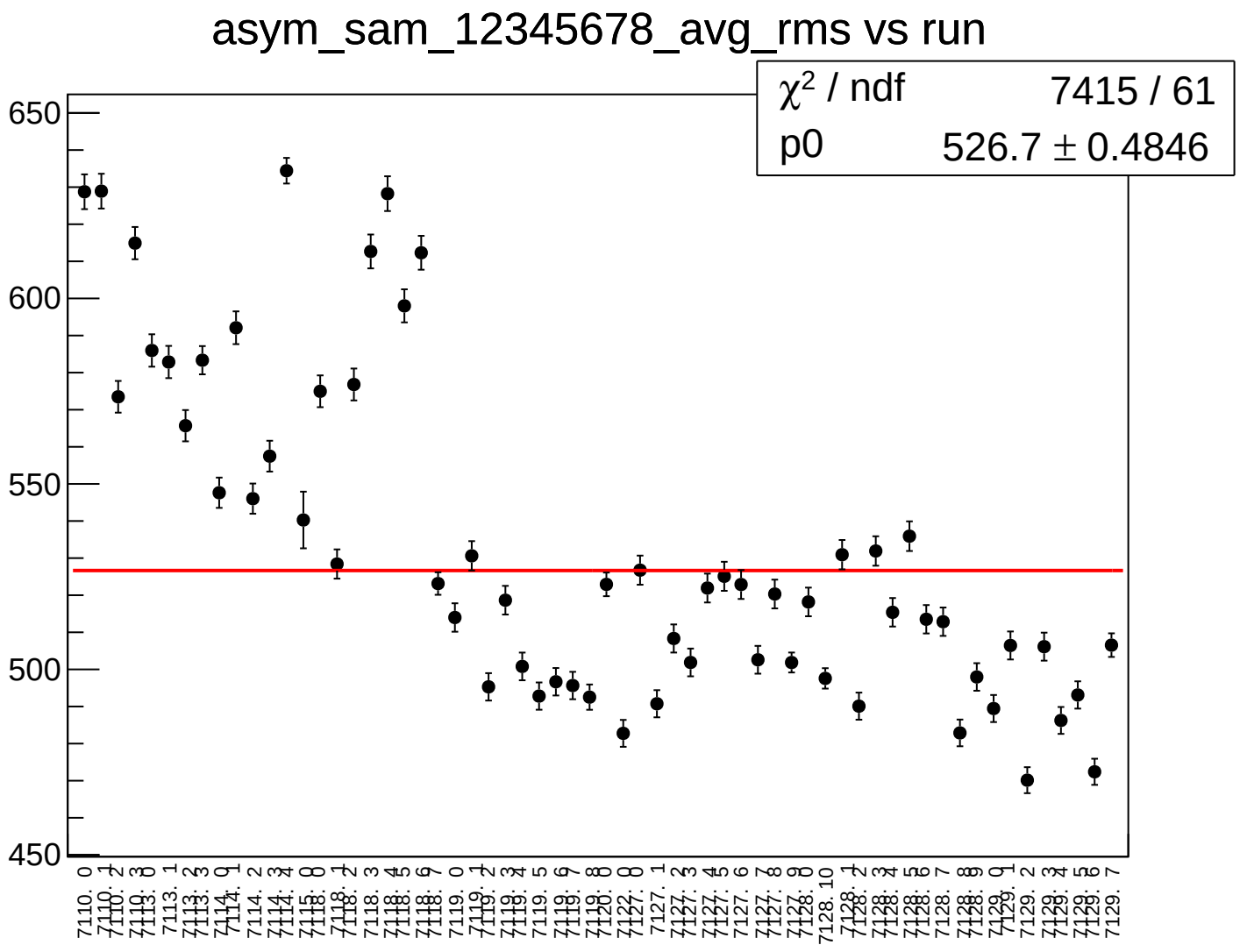

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 3.053e+04 / 61
p0 59.77 ± 0.05554
90
80
70
60
50
7110. 0
7110. 1
7110. 2
7110. 3
7113. 0
7113. 1
7113. 2
7113. 3
7114. 0
7114. 1
7114. 2
7114. 3
7114. 4
7115. 0
7118. 0
7118. 1
7118. 2
7118. 3
7118. 4
7118. 5
7118. 6
7118. 7
7119. 0
7119. 1
7119. 2
7119. 3
7119. 4
7119. 5
7119. 6
7119. 7
7119. 8
7120. 0
7122. 0
7127. 0
7127. 1
7127. 2
7127. 3
7127. 4
7127. 5
7127. 6
7127. 7
7127. 8
7128. 0
7128. 10
7128. 1
7128. 2
7128. 3
7128. 4
7128. 5
7128. 6
7128. 7
7128. 8
7128. 9
7129. 0
7129. 1
7129. 2
7129. 3
7129. 4
7129. 5
7129. 6
7129. 7

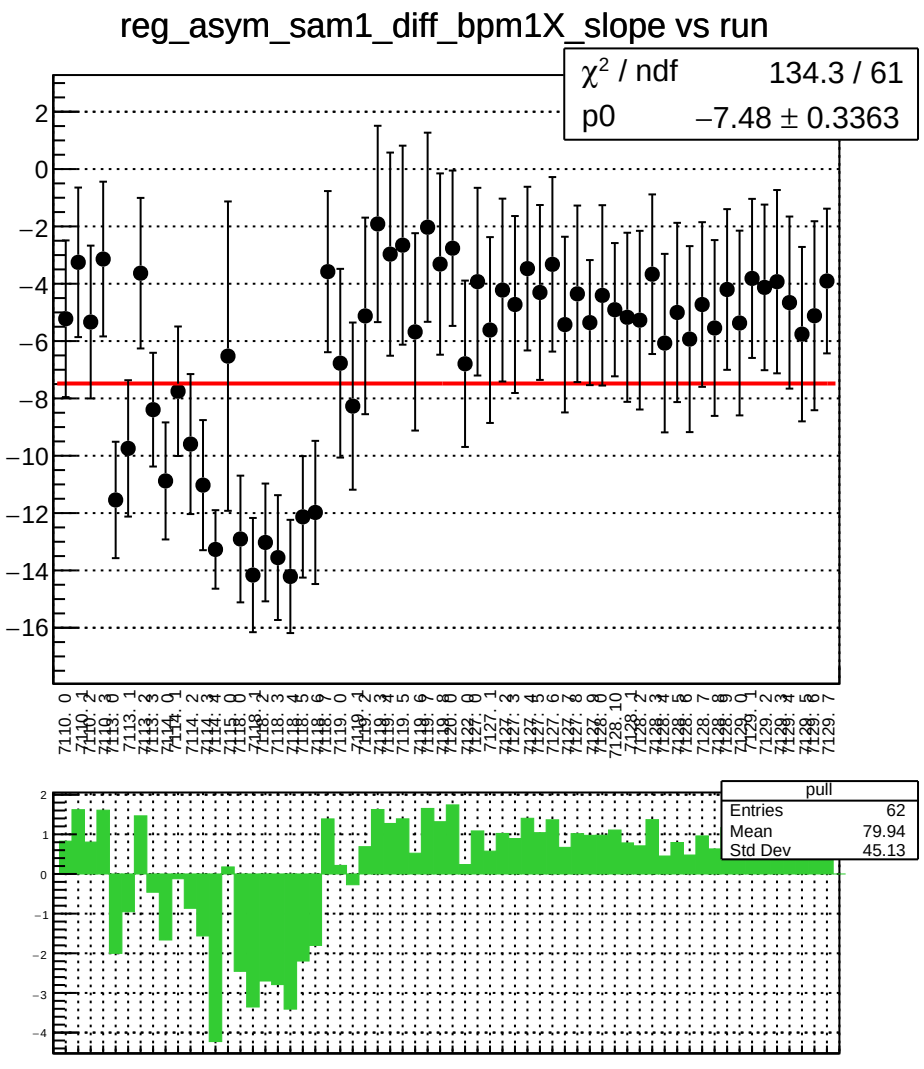

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 68.44 / 61
p0 −1700 ± 680.5
pull
Entries 62
Mean −184
Std Dev 218.7

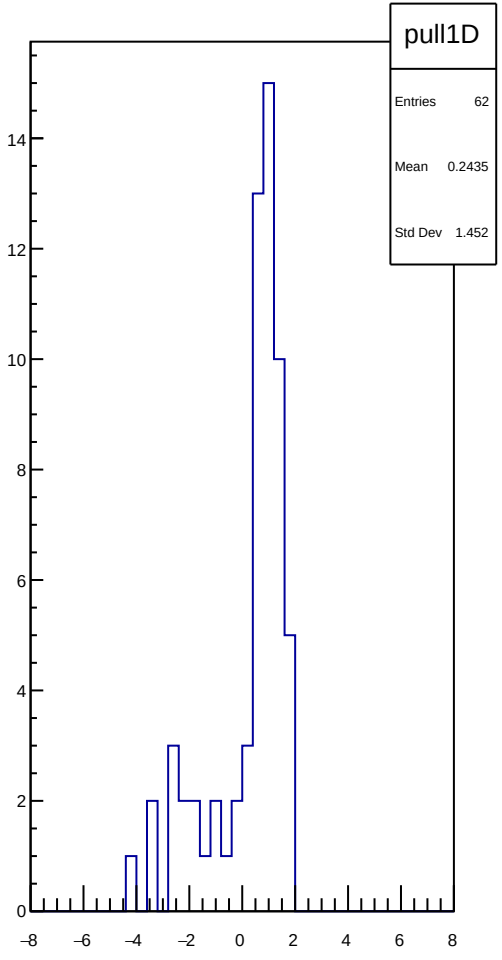

pull1D
Entries 62
Mean 0.02025
Std Dev 1.05

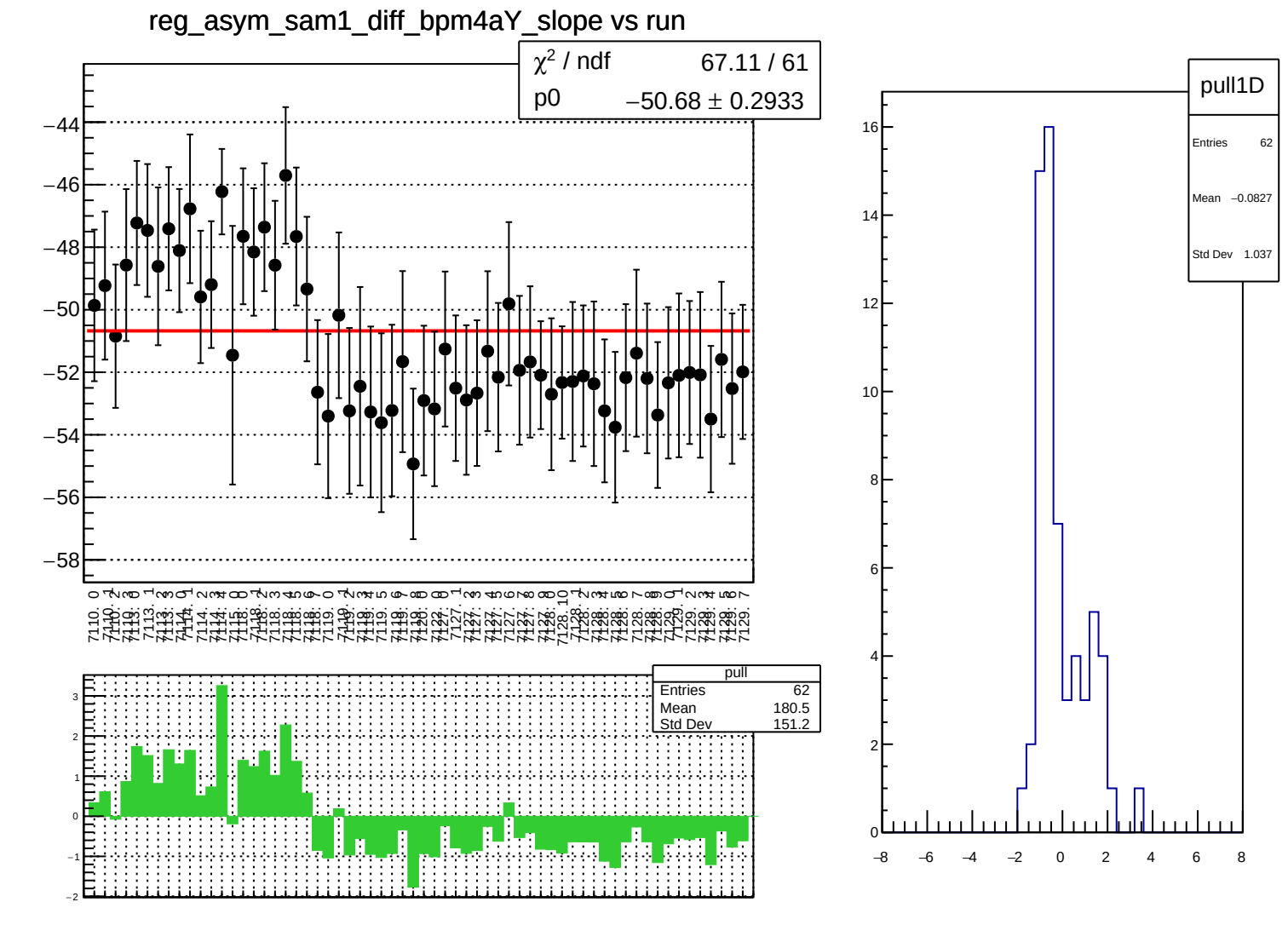

asym_sam_12345678_avg_correction_rms vs run
χ^2 / ndf 7242 / 61
p0 523 ± 0.4812
640
620
600
580
560
540
520
500
480
460

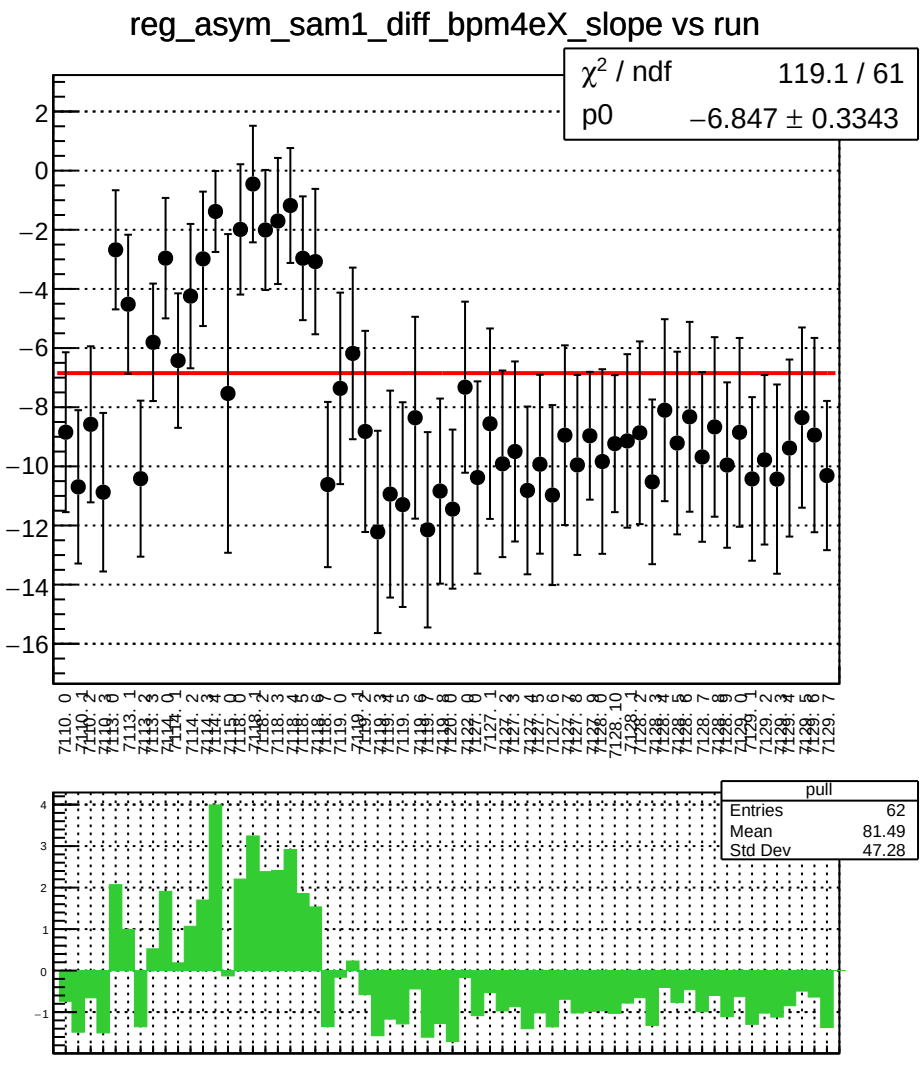

asym_sam_12345678_avg_mean vs run
χ² / ndf 67.65 / 61
p0 1721 ± 685.3
pull
Entries 62
Mean −178.2
Std Dev 213.3
pull1D
Entries 62
Mean −0.01946
Std Dev 1.044

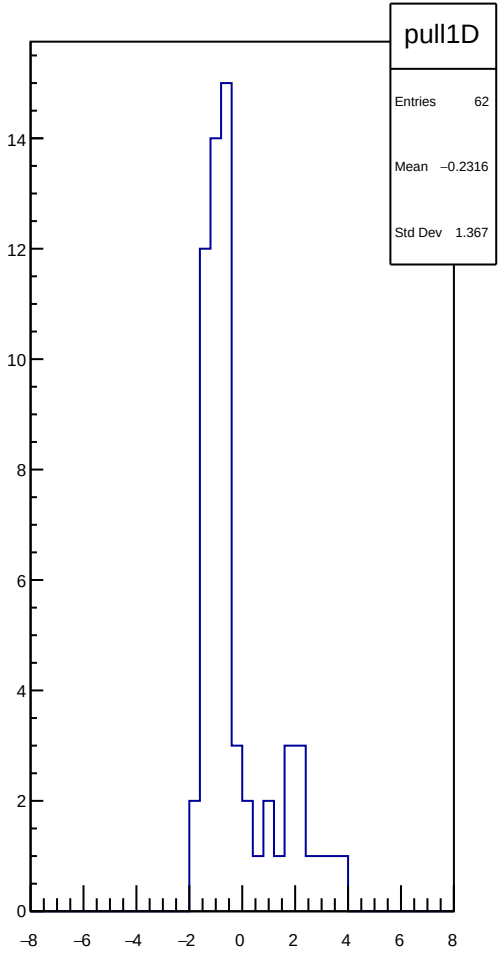

asym_sam_12345678_avg_rms vs run
χ² / ndf 7415 / 61
p0 526.7 ± 0.4846
650
600
550
500
450

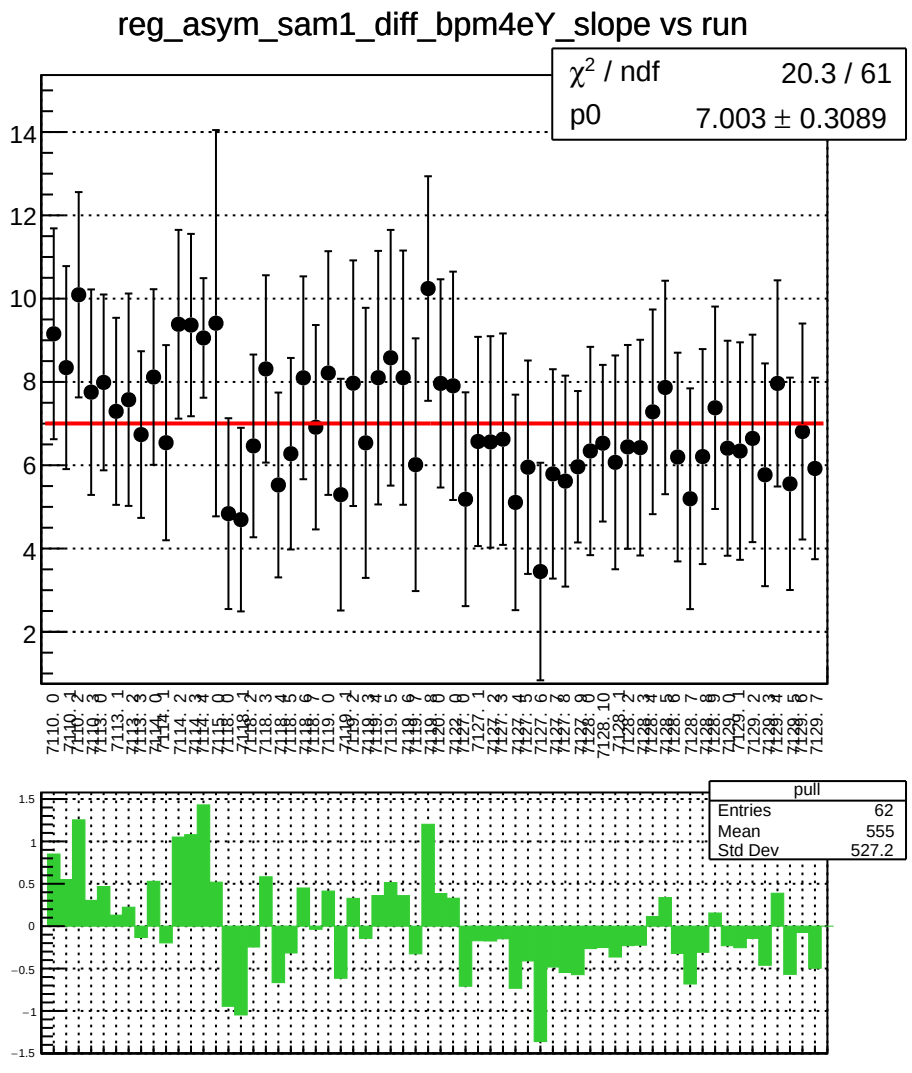

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 134.3 / 61
p0 −7.48 ± 0.3363
pull
Entries 62
Mean 79.94
Std Dev 45.13

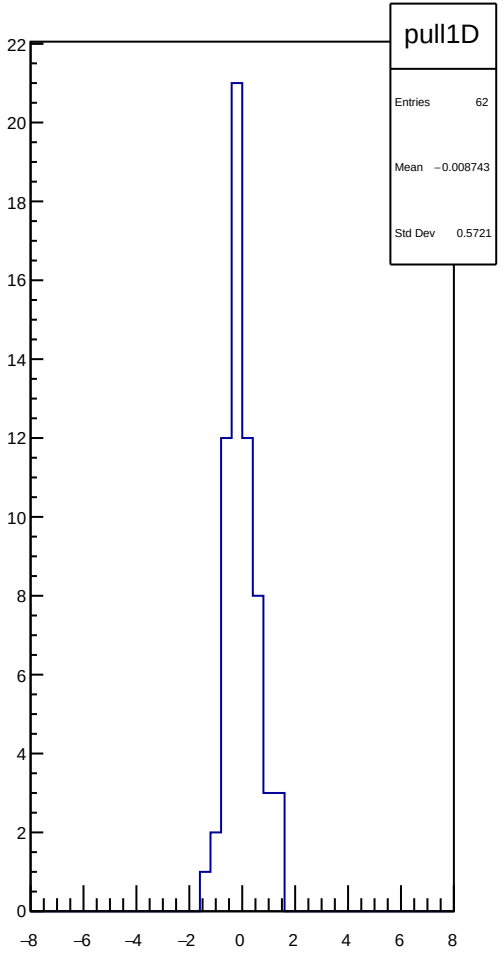

pull1D
Entries 62
Mean 0.2435
Std Dev 1.452

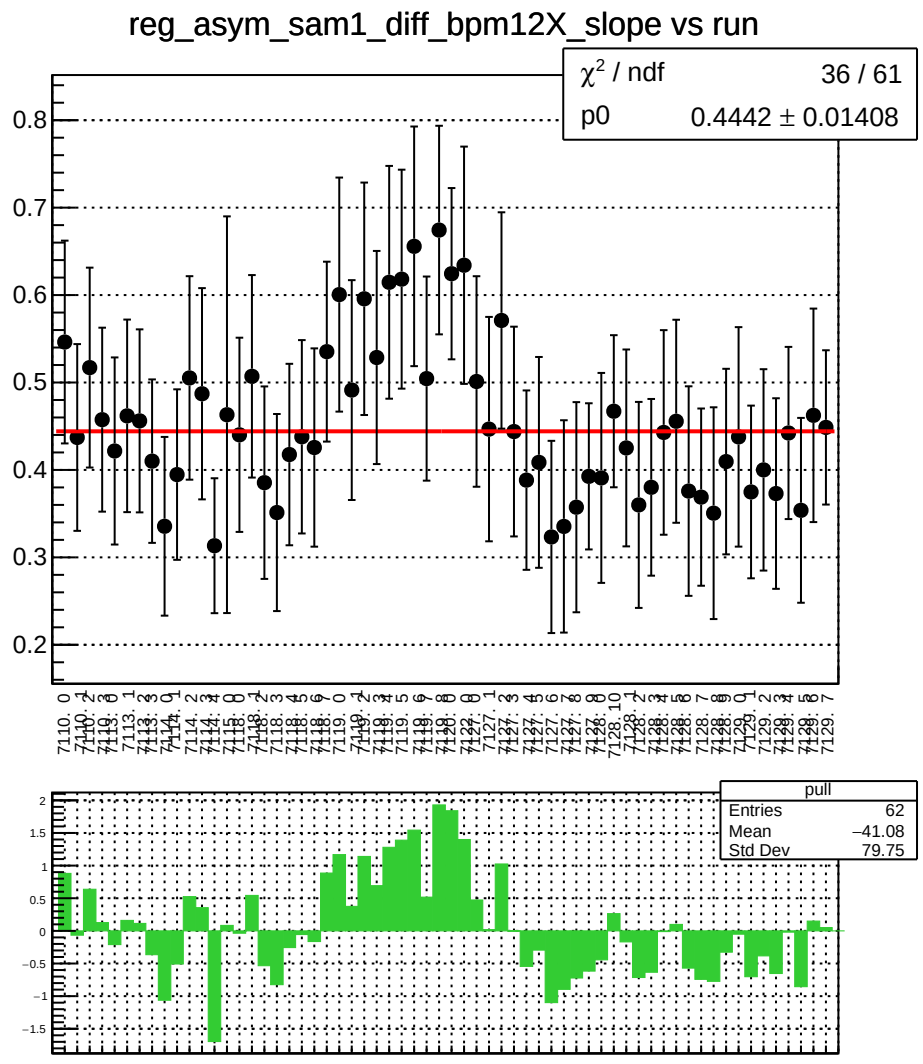

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 67.11 / 61
p0 −50.68 ± 0.2933
pull
Entries 62
Mean 180.5
Std Dev 151.2
pull1D
Entries 62
Mean −0.0827
Std Dev 1.037

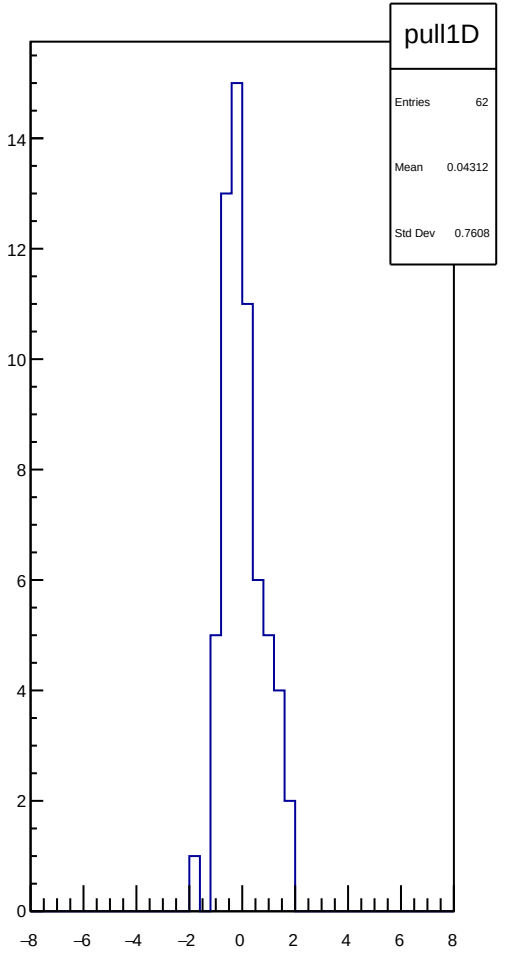

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 119.1 / 61
p0 −6.847 ± 0.3343
pull
Entries 62
Mean 81.49
Std Dev 47.28

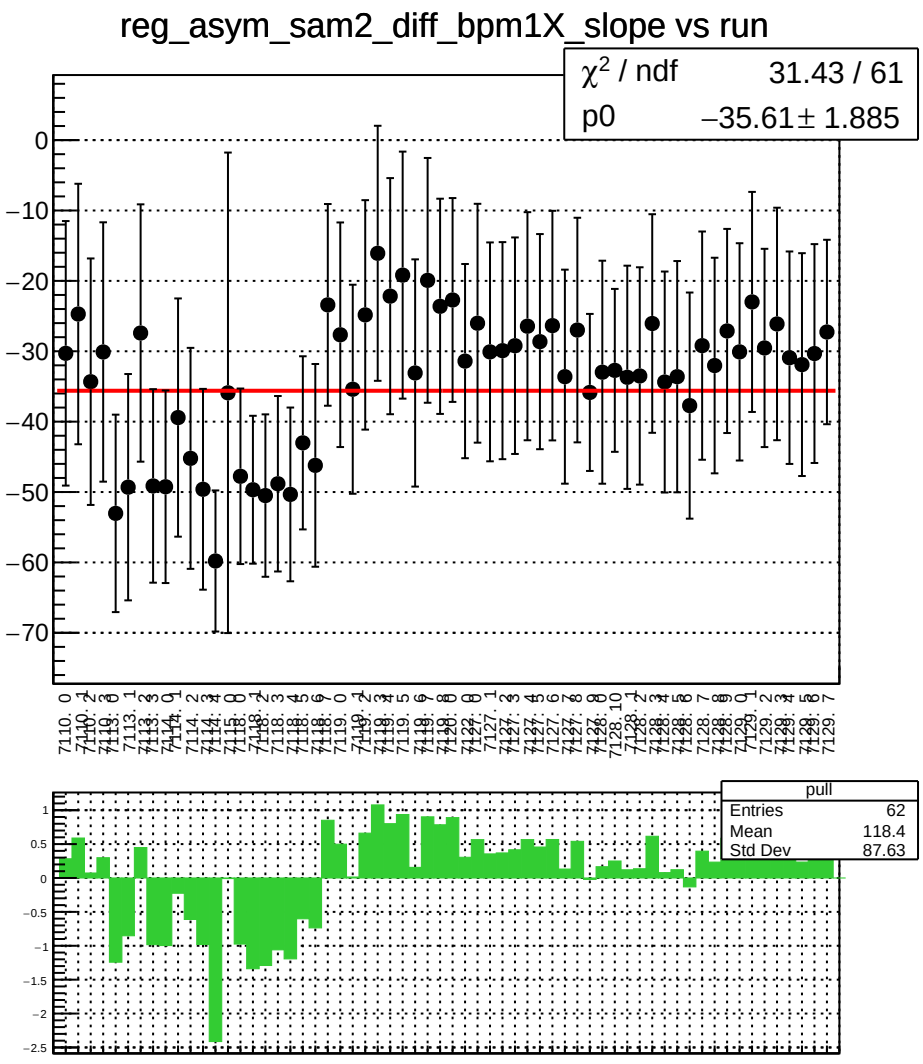

pull1D
Entries 62
Mean −0.2316
Std Dev 1.367

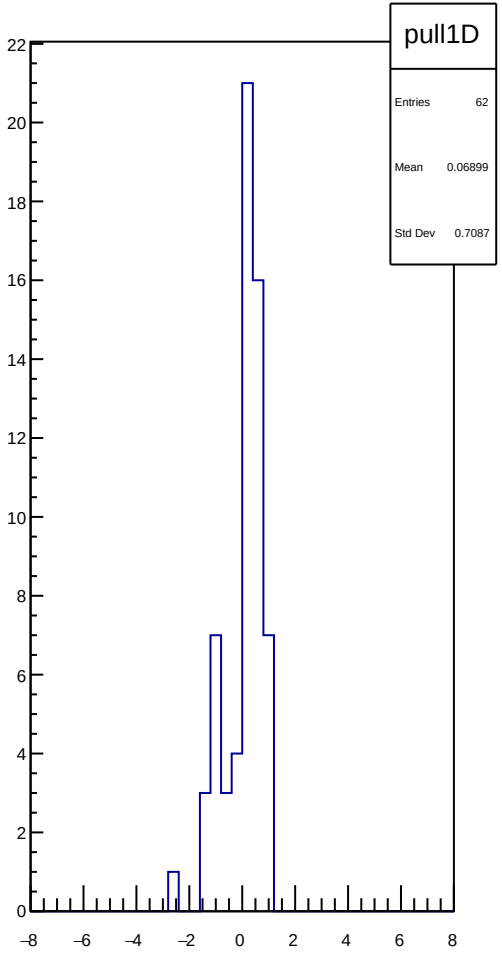

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 20.3 / 61
p0 7.003 ± 0.3089
pull
Entries 62
Mean 555
Std Dev 527.2

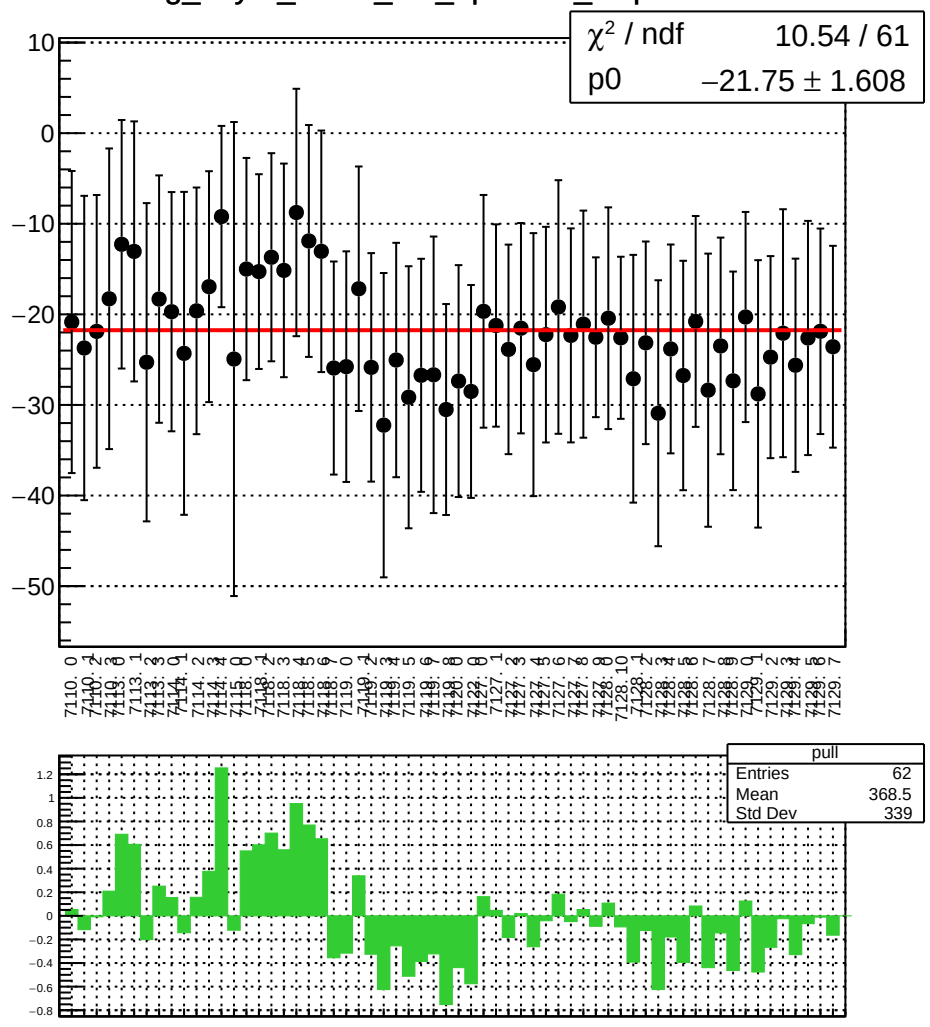

pull1D
Entries 62
Mean −0.008743
Std Dev 0.5721

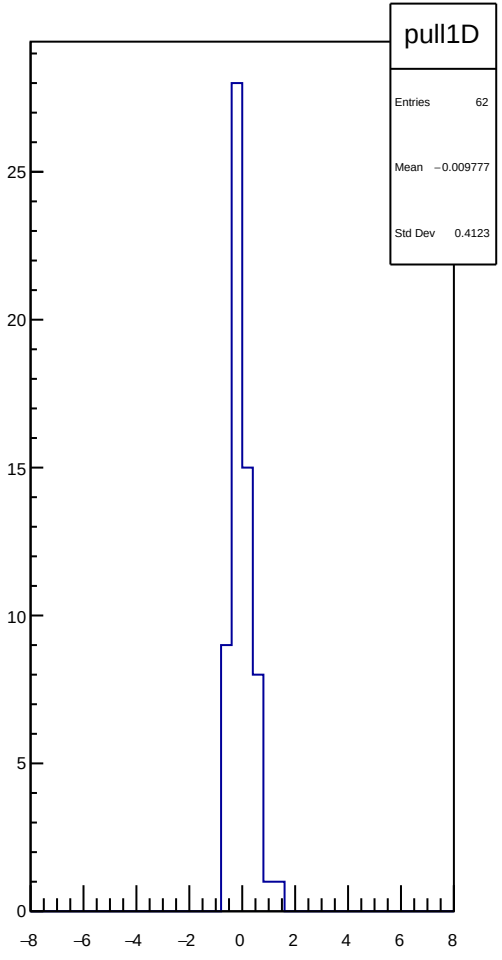

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 36 / 61
p0 0.4442 ± 0.01408
pull
Entries 62
Mean −41.08
Std Dev 79.75

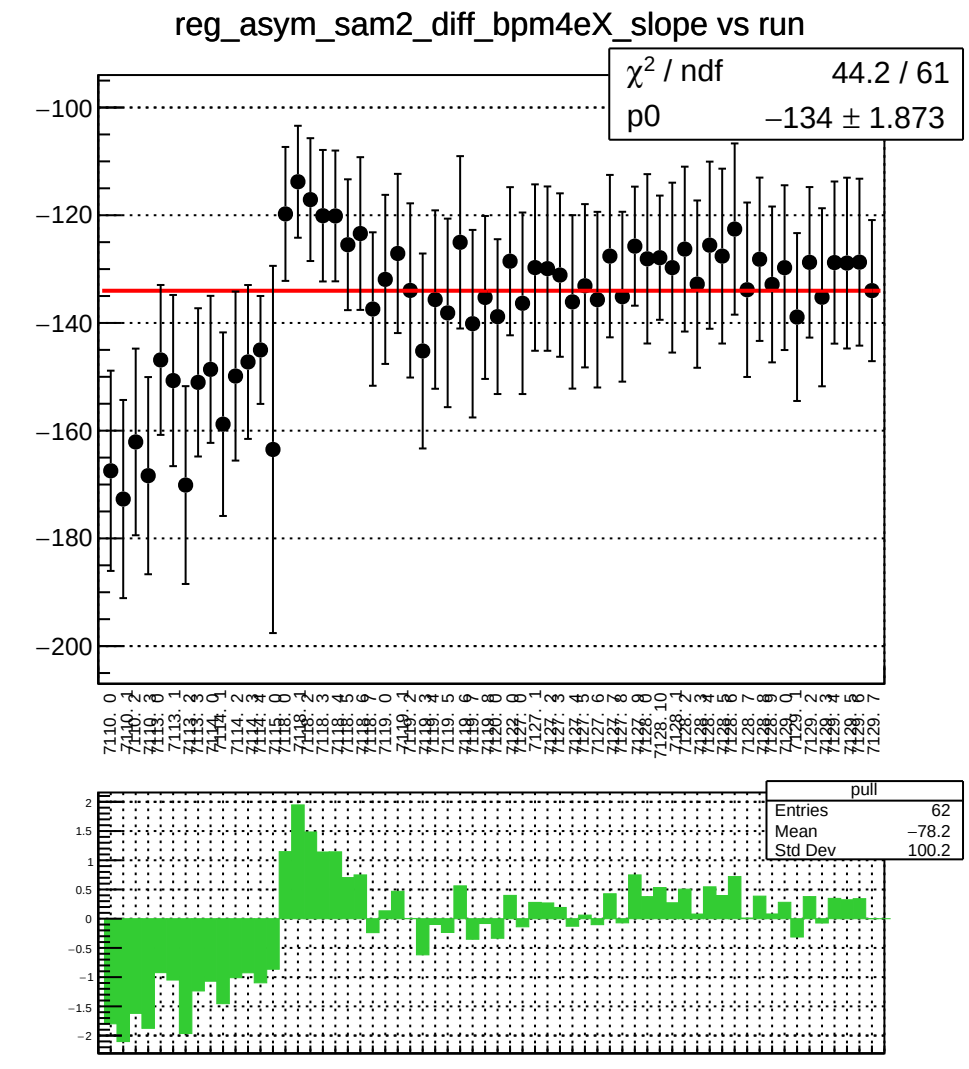

pull1D
Entries 62
Mean 0.04312
Std Dev 0.7608

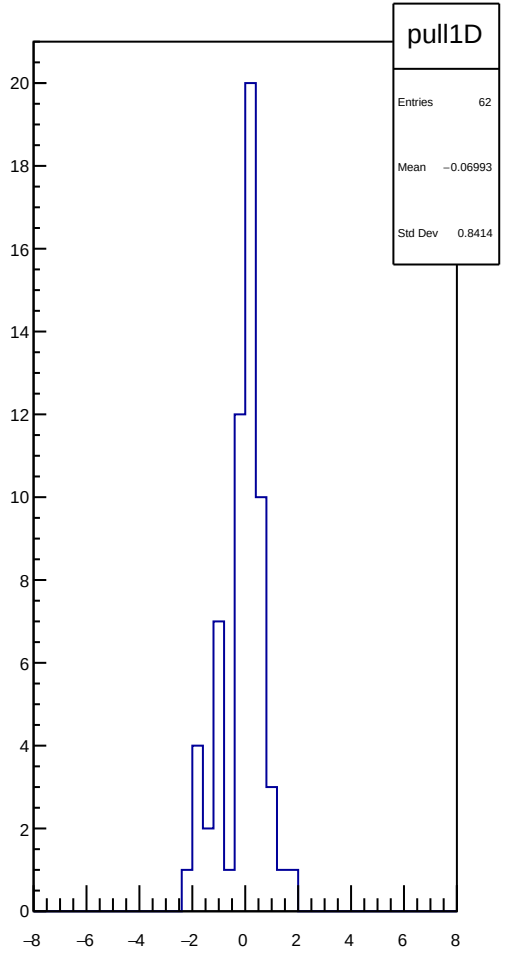

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 31.43 / 61
p0 −35.61 ± 1.885
pull
Entries 62
Mean 118.4
Std Dev 87.63

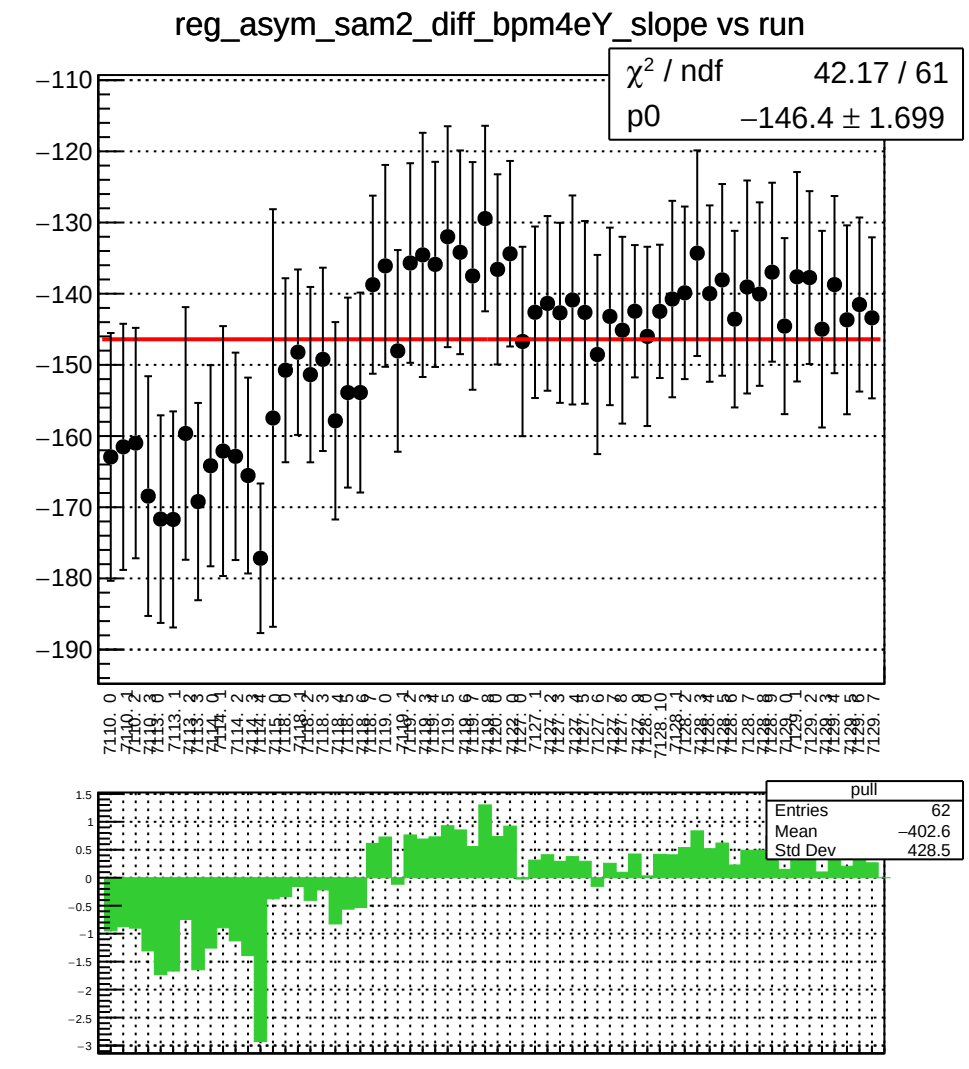

pull1D
Entries 62
Mean 0.06899
Std Dev 0.7087

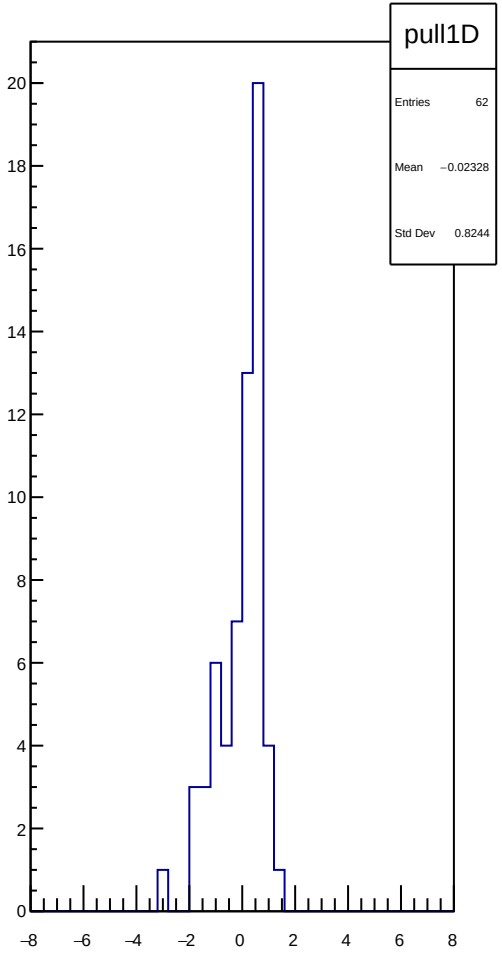

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 10.54 / 61
p0 −21.75 ± 1.608
pull
Entries 62
Mean 368.5
Std Dev 339

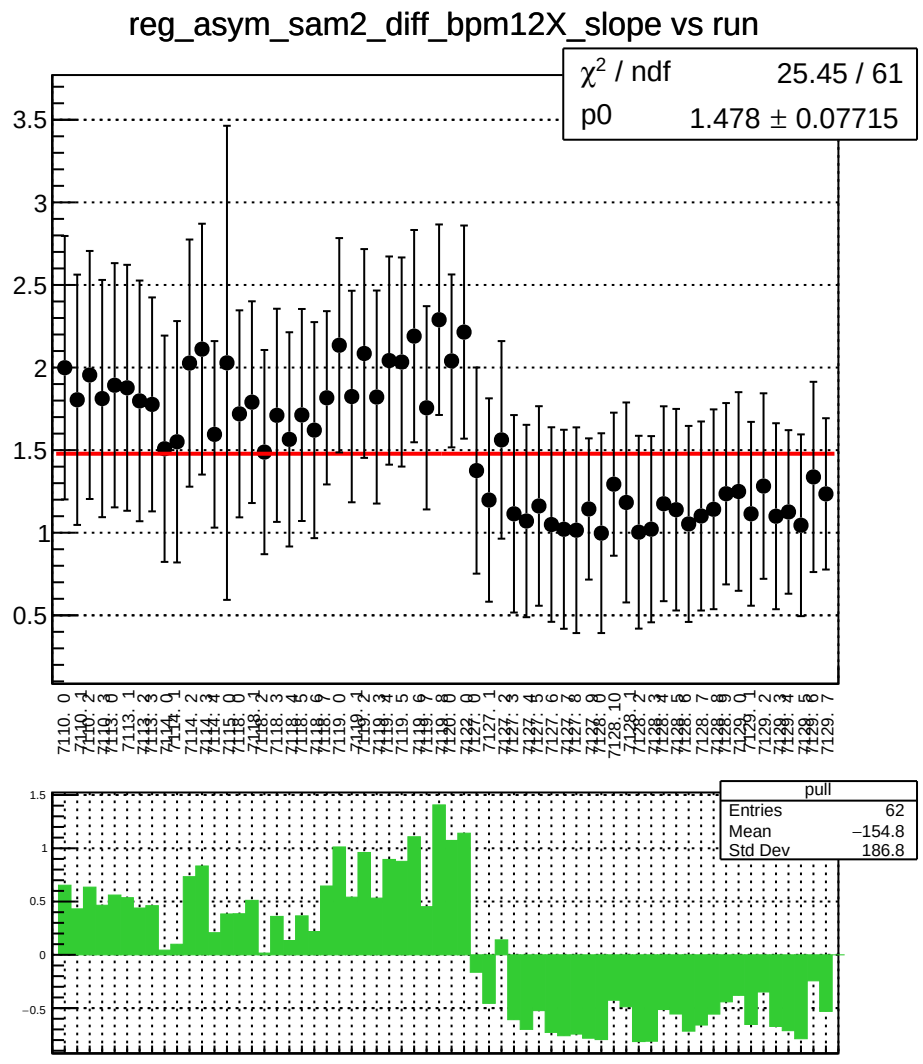

pull1D
Entries 62
Mean −0.009777
Std Dev 0.4123

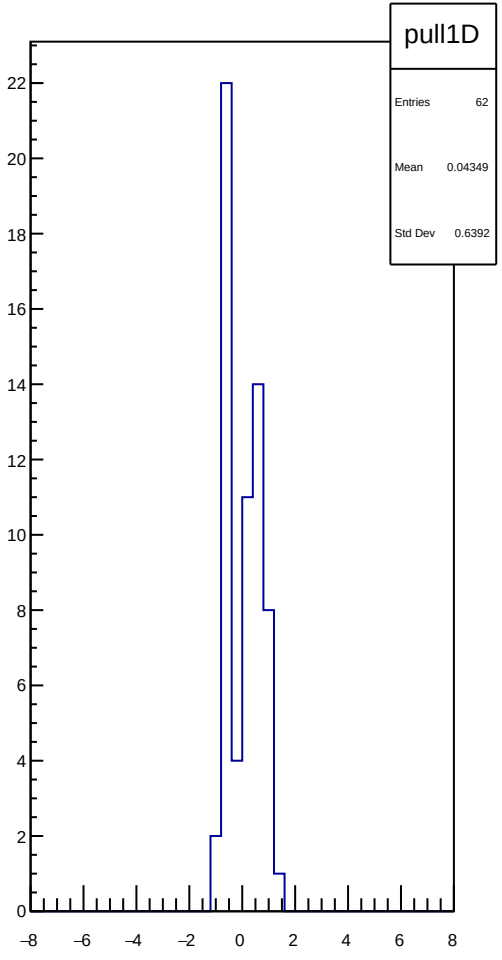

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 44.2 / 61
p0 −134 ± 1.873
−100
−120
−140
−160
−180
−200
pull
Entries 62
Mean −78.2
Std Dev 100.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

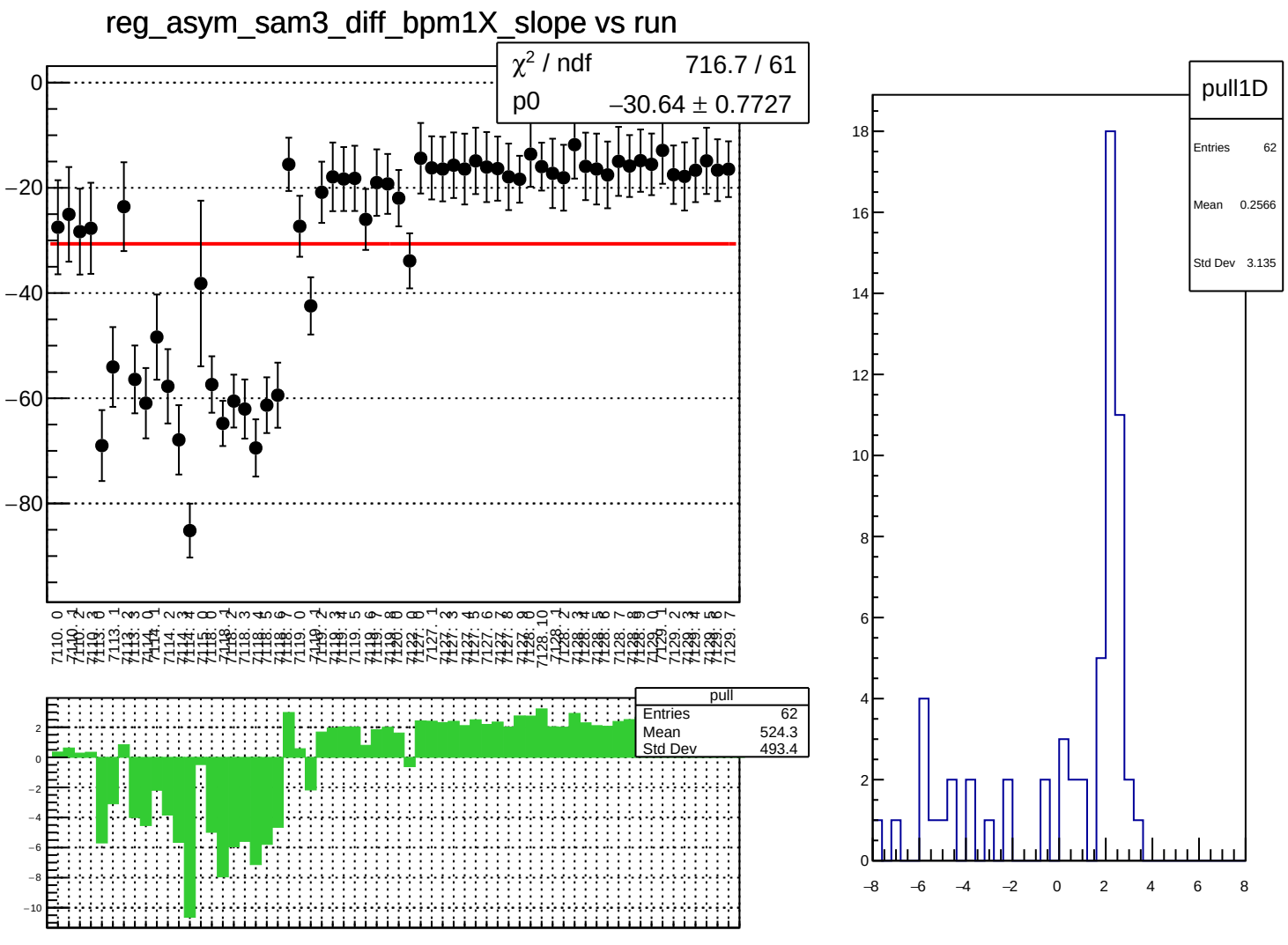

pull1D
Entries 62
Mean −0.06993
Std Dev 0.8414
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

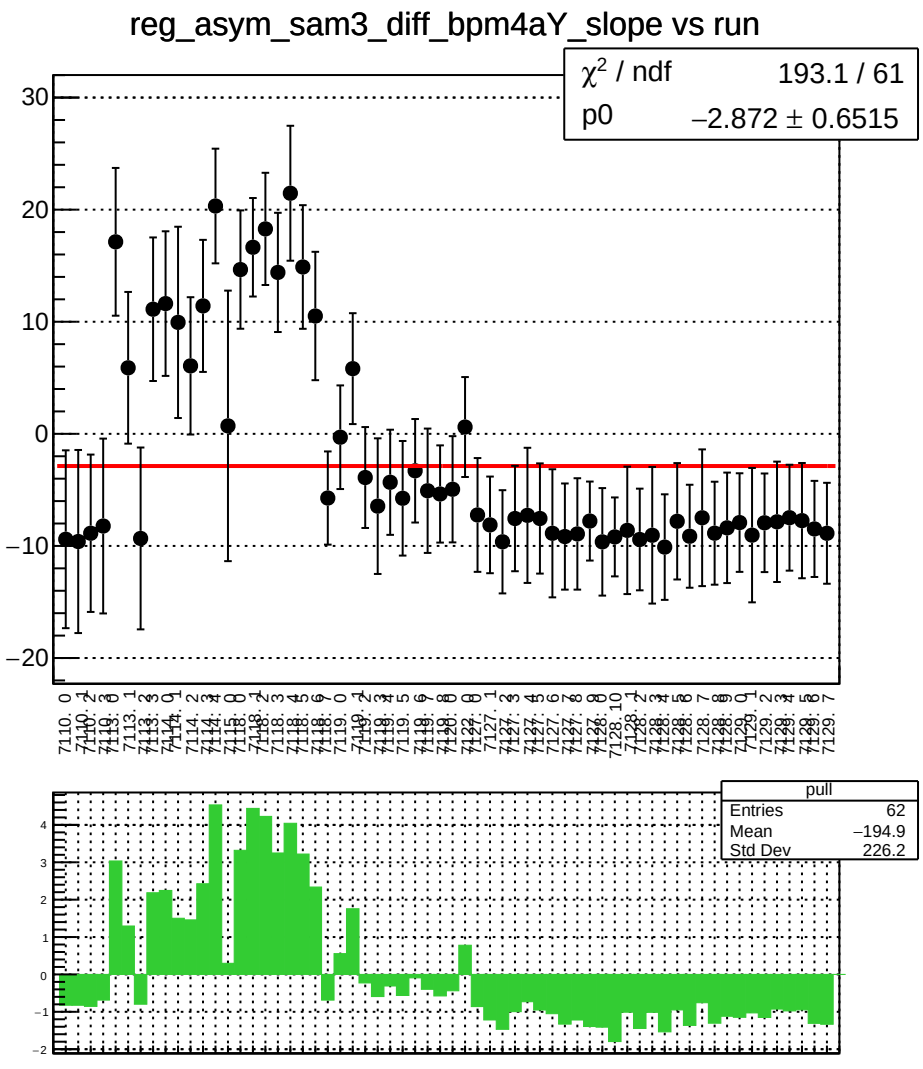

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 42.17 / 61
p0 −146.4 ± 1.699
pull
Entries 62
Mean −402.6
Std Dev 428.5

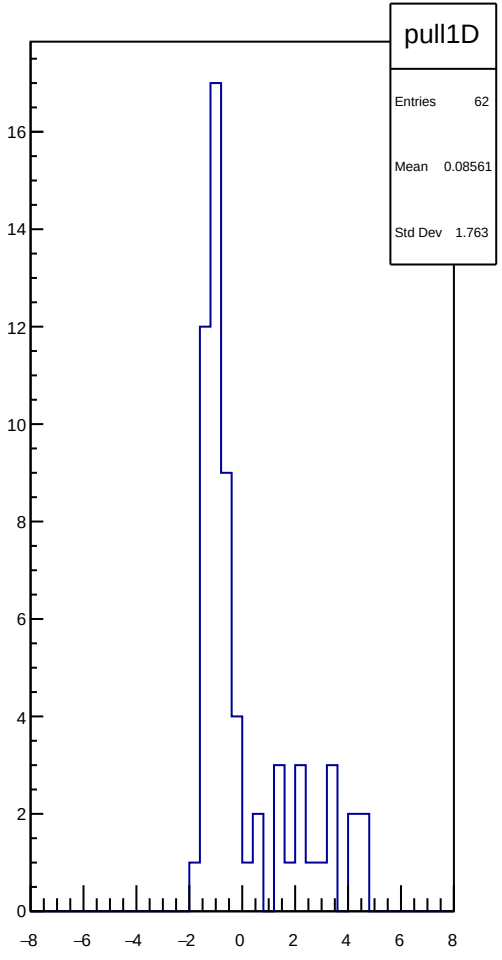

pull1D
Entries 62
Mean −0.02328
Std Dev 0.8244

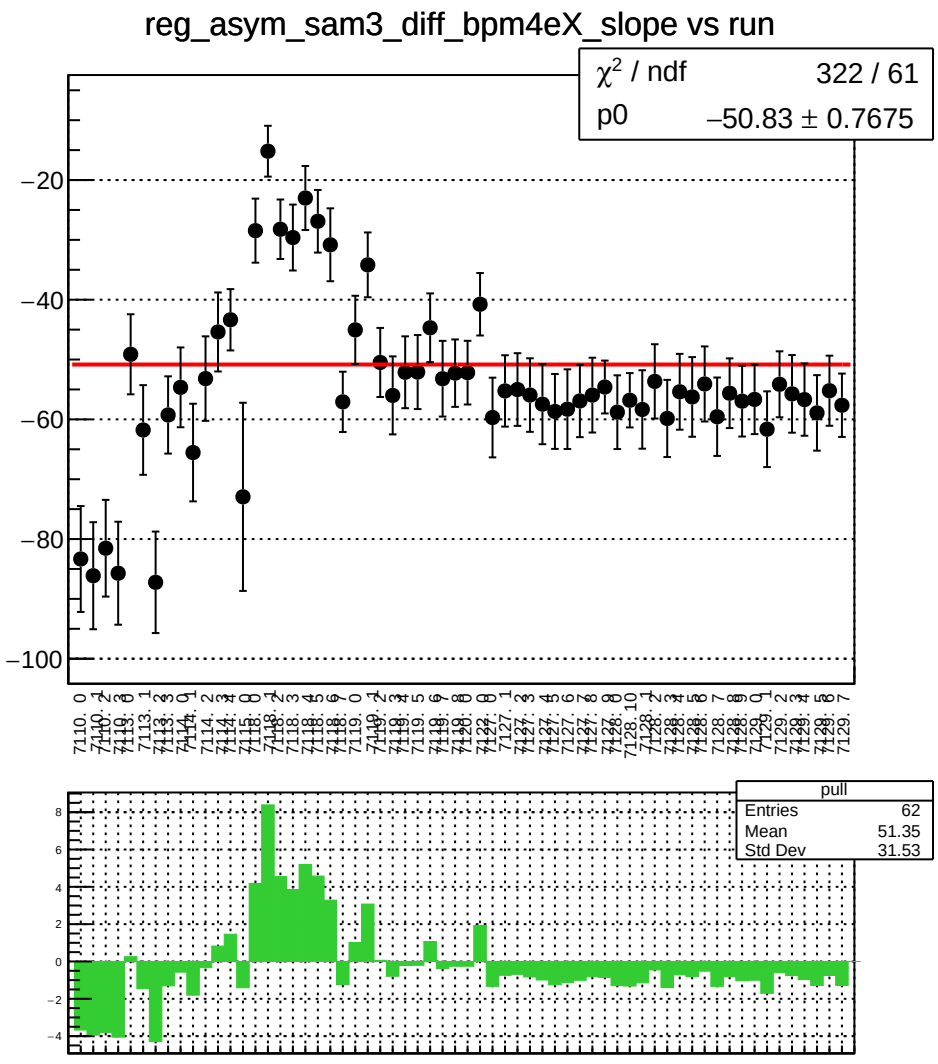

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 25.45 / 61
p0 1.478 ± 0.07715
pull
Entries 62
Mean −154.8
Std Dev 186.8

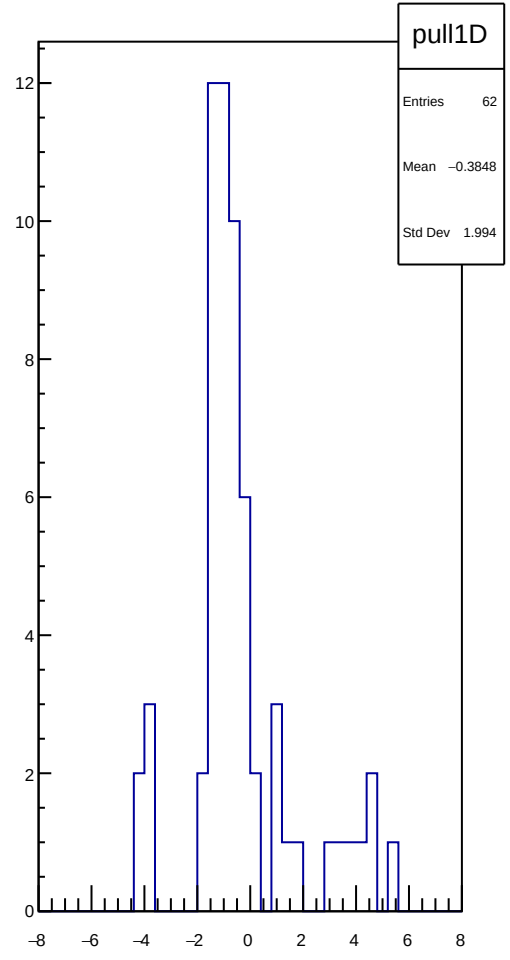

pull1D
Entries 62
Mean 0.04349
Std Dev 0.6392

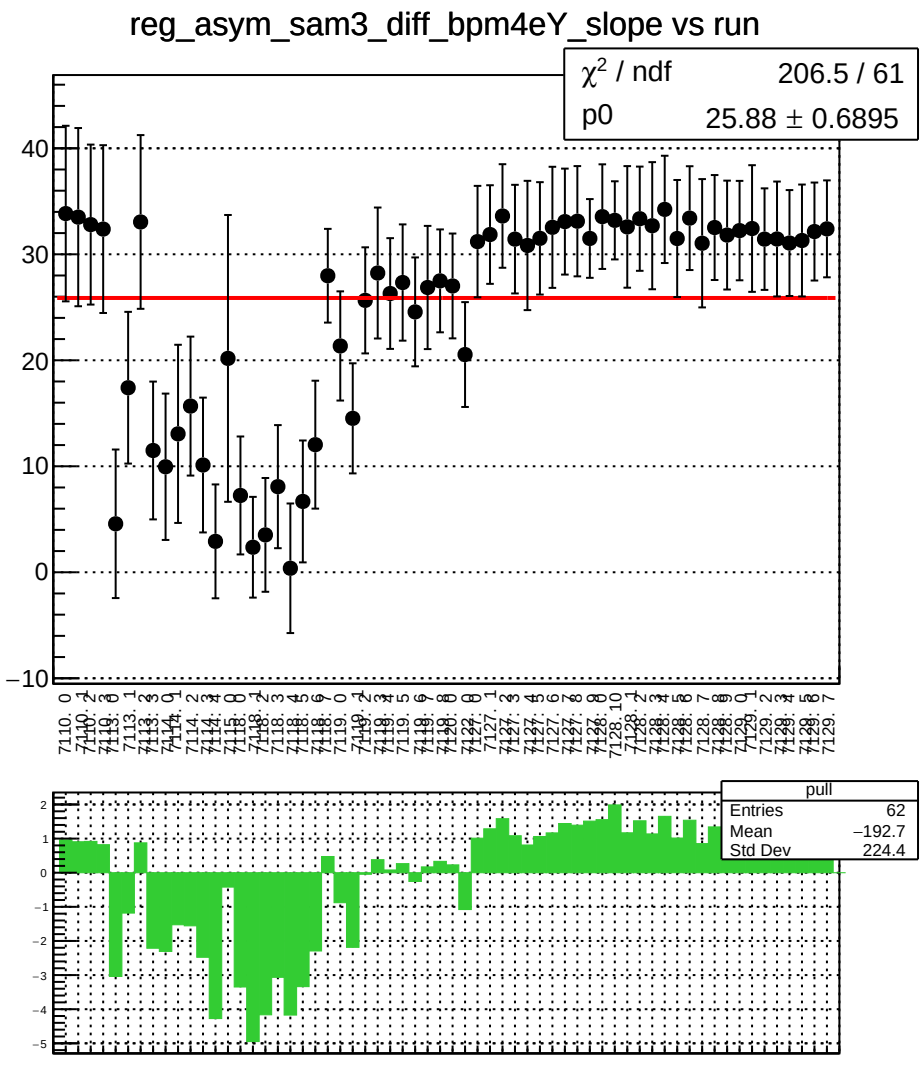

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 716.7 / 61
p0 −30.64 ± 0.7727
pull
Entries 62
Mean 524.3
Std Dev 493.4
pull1D
Entries 62
Mean 0.2566
Std Dev 3.135

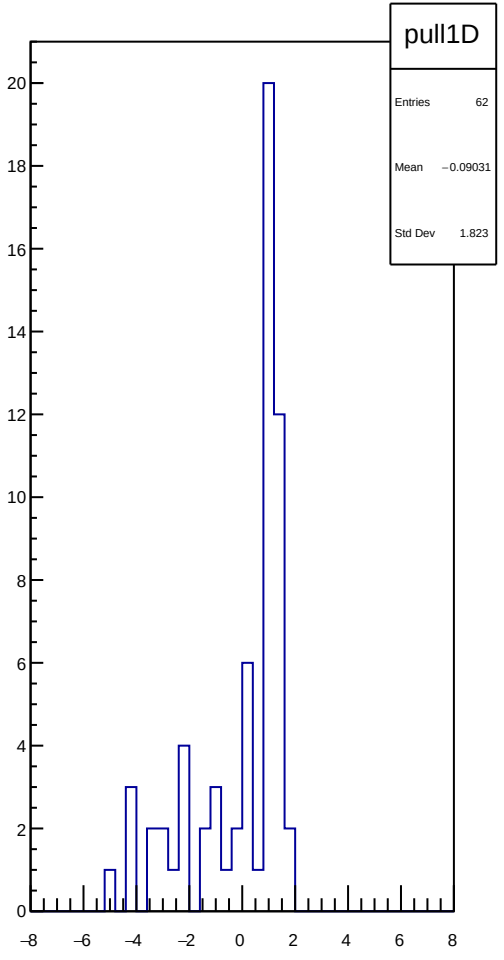

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 193.1 / 61
p0 −2.872 ± 0.6515
pull
Entries 62
Mean −194.9
Std Dev 226.2

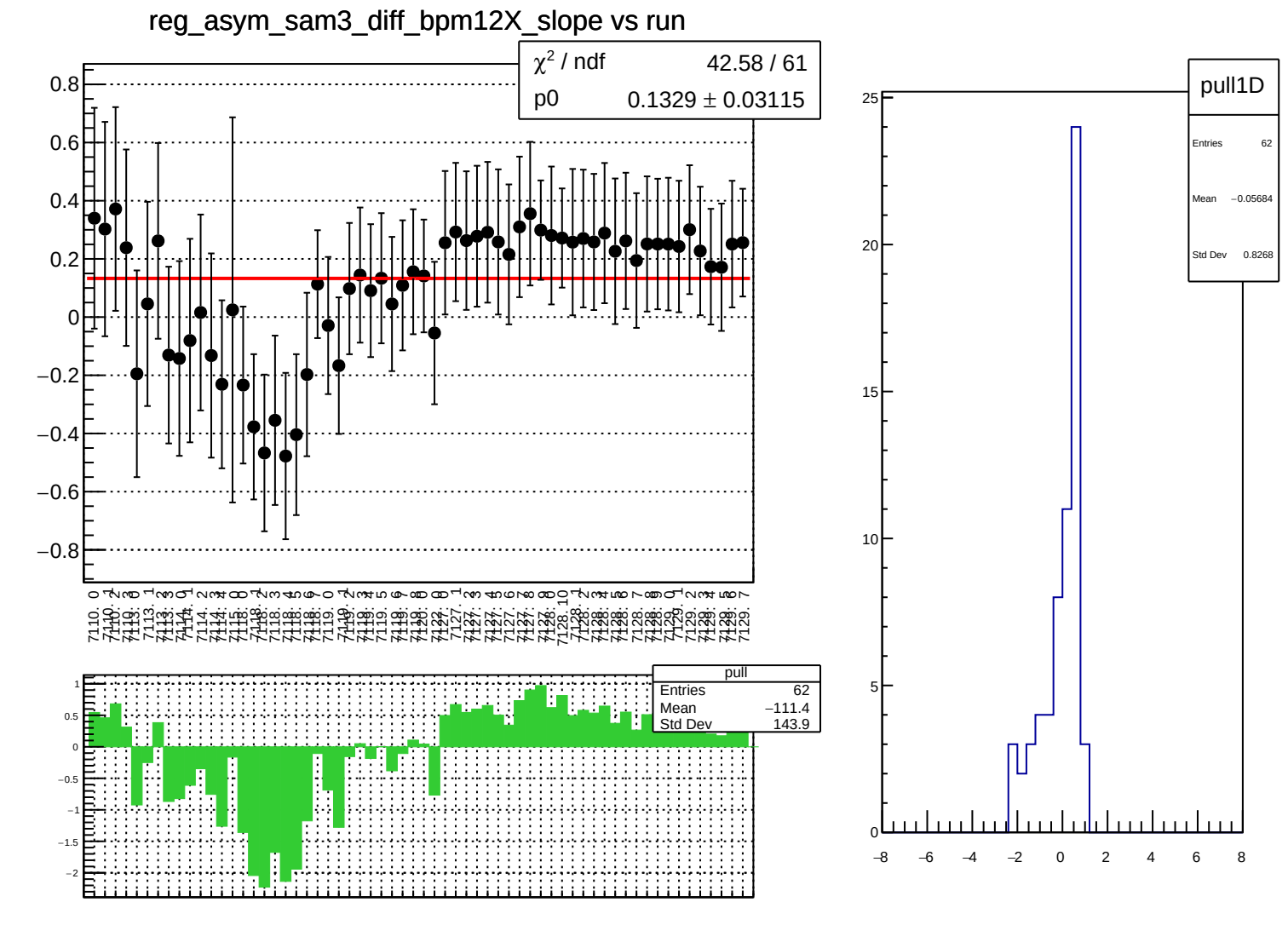

pull1D
Entries 62
Mean 0.08561
Std Dev 1.763

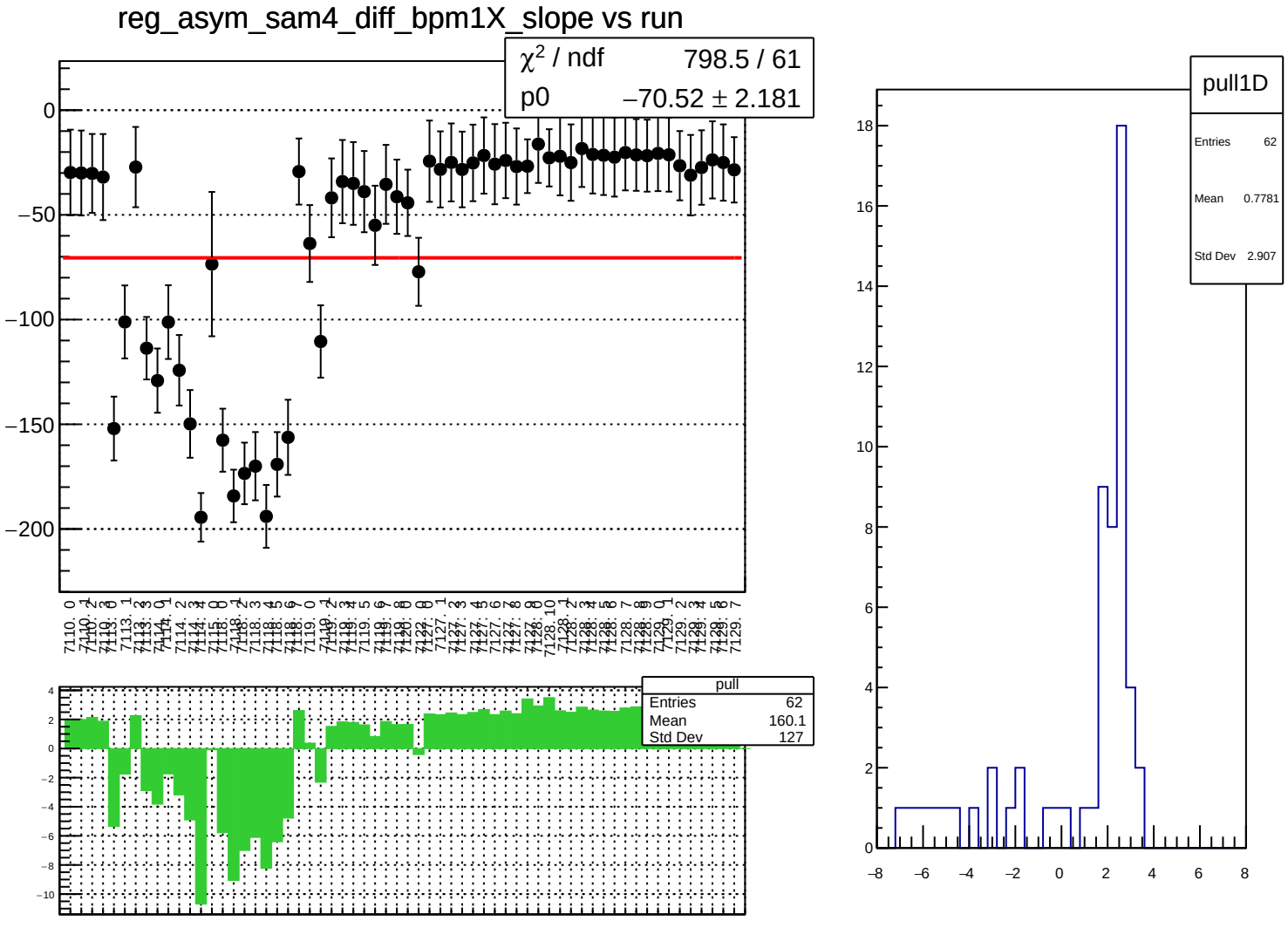

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 322 / 61
p0 −50.83 ± 0.7675
pull
Entries 62
Mean 51.35
Std Dev 31.53

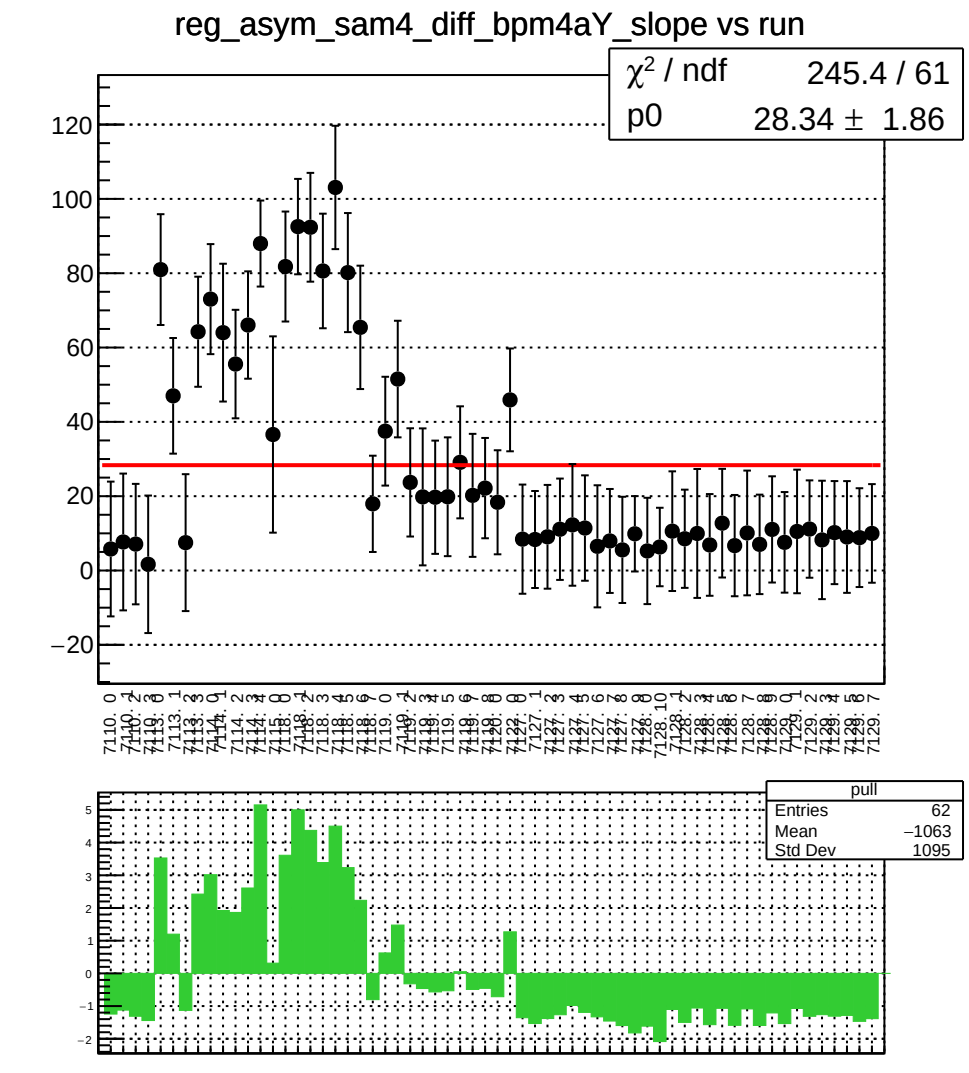

pull1D
Entries 62
Mean −0.3848
Std Dev 1.994

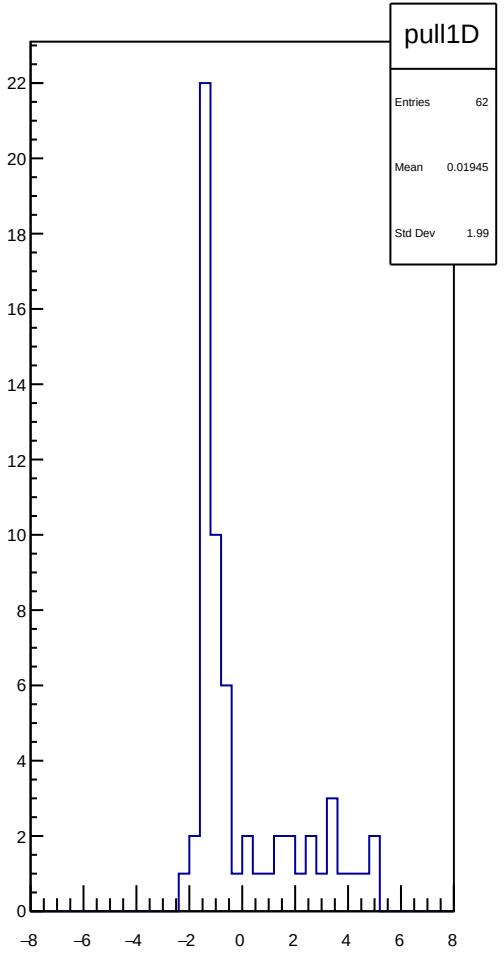

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 206.5 / 61
p0 25.88 ± 0.6895
pull
Entries 62
Mean −192.7
Std Dev 224.4

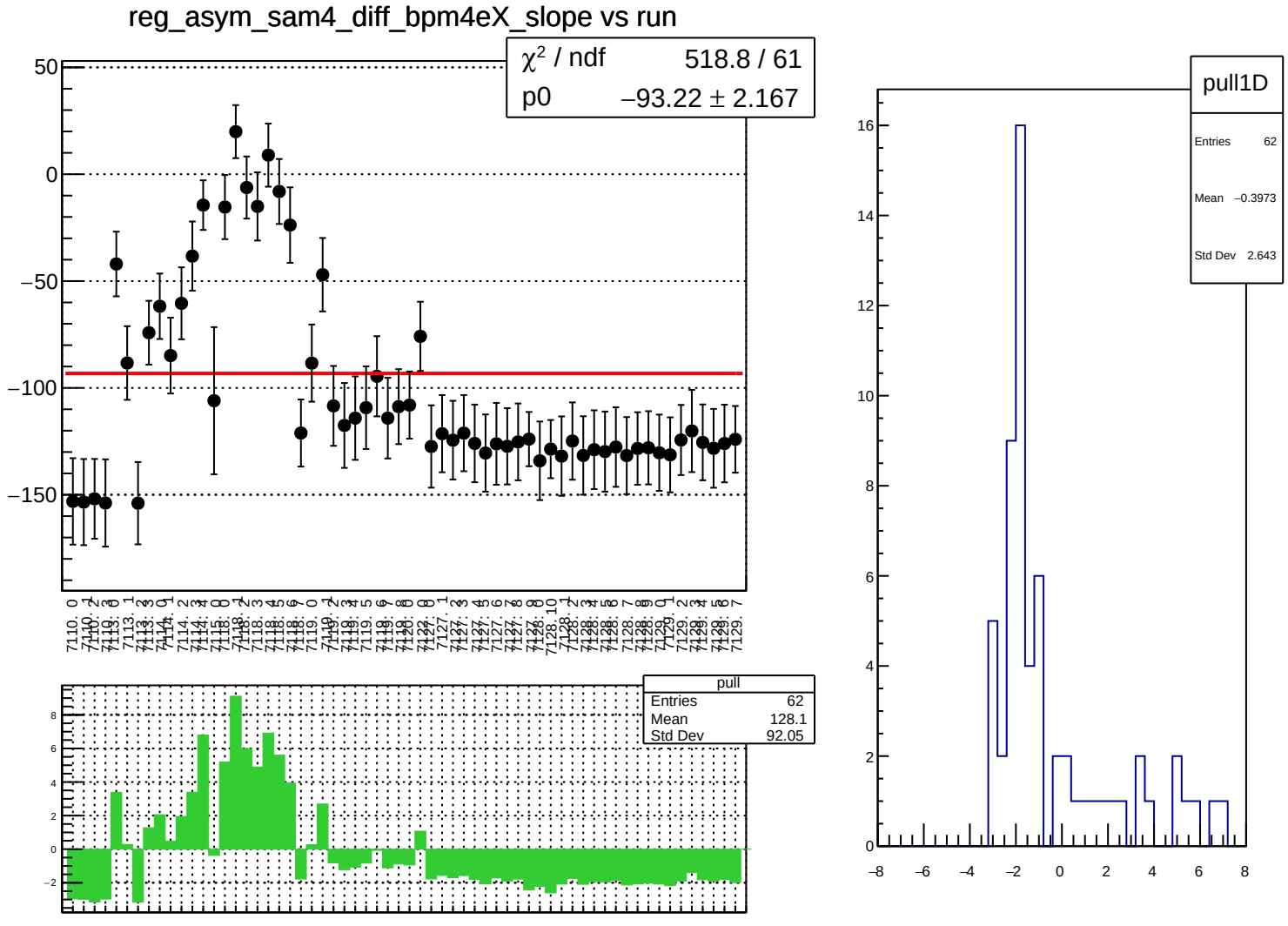

pull1D
Entries 62
Mean −0.09031
Std Dev 1.823

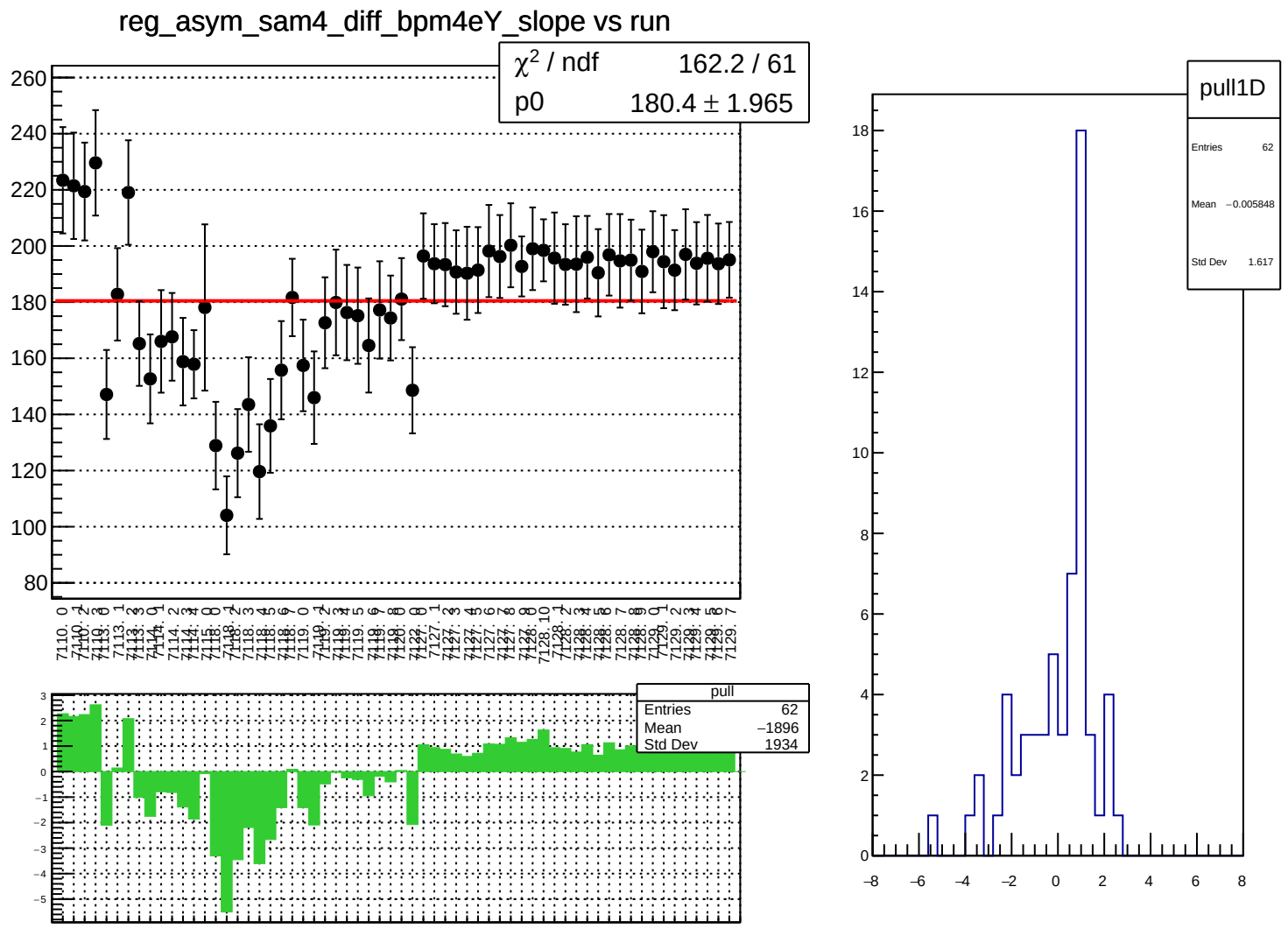

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 42.58 / 61
p0 0.1329 ± 0.03115
pull
Entries 62
Mean −111.4
Std Dev 143.9
pull1D
Entries 62
Mean −0.05684
Std Dev 0.8268

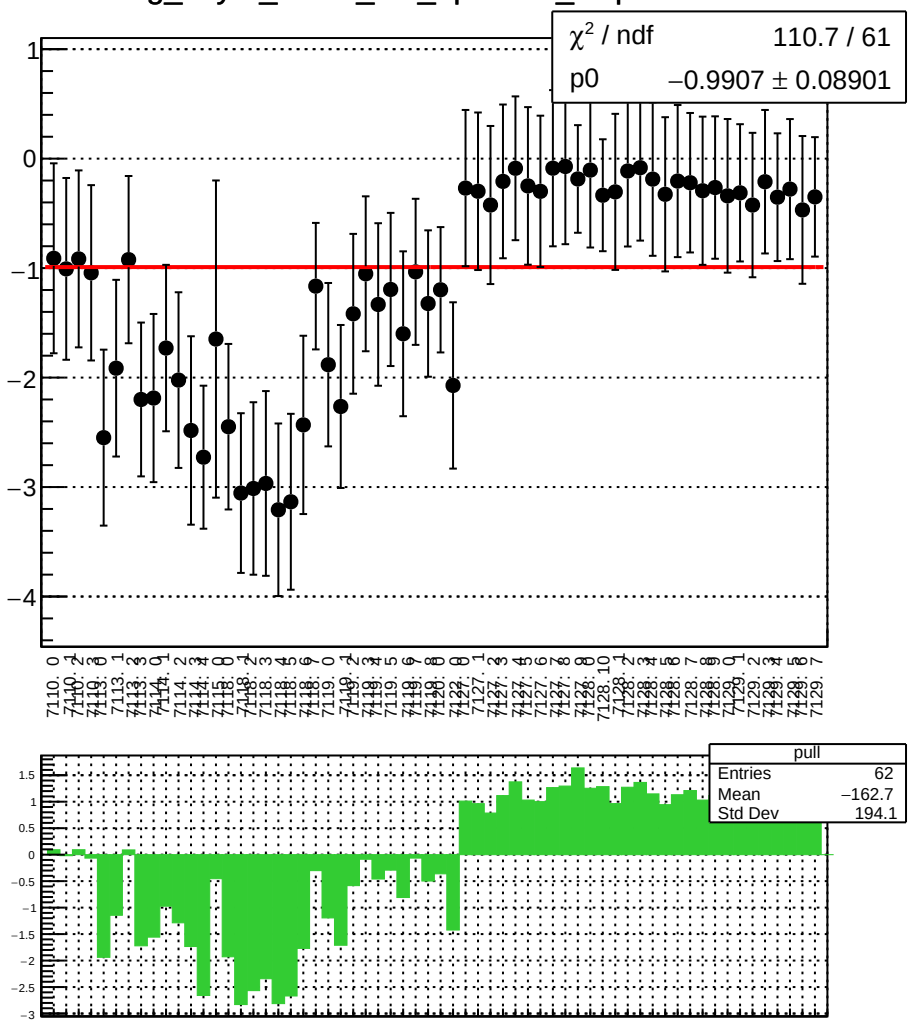

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 798.5 / 61
p0 −70.52 ± 2.181
pull
Entries 62
Mean 160.1
Std Dev 127
pull1D
Entries 62
Mean 0.7781
Std Dev 2.907

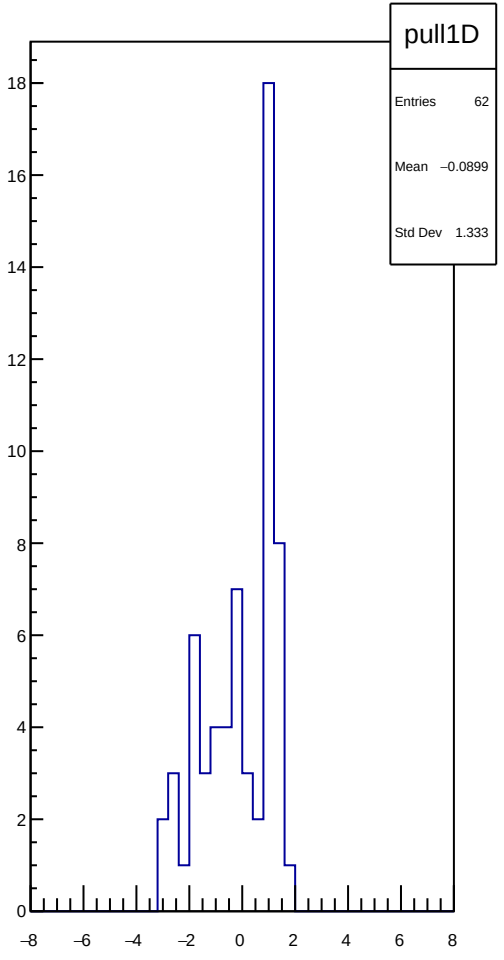

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 245.4 / 61
p0 28.34 ± 1.86
pull
Entries 62
Mean −1063
Std Dev 1095

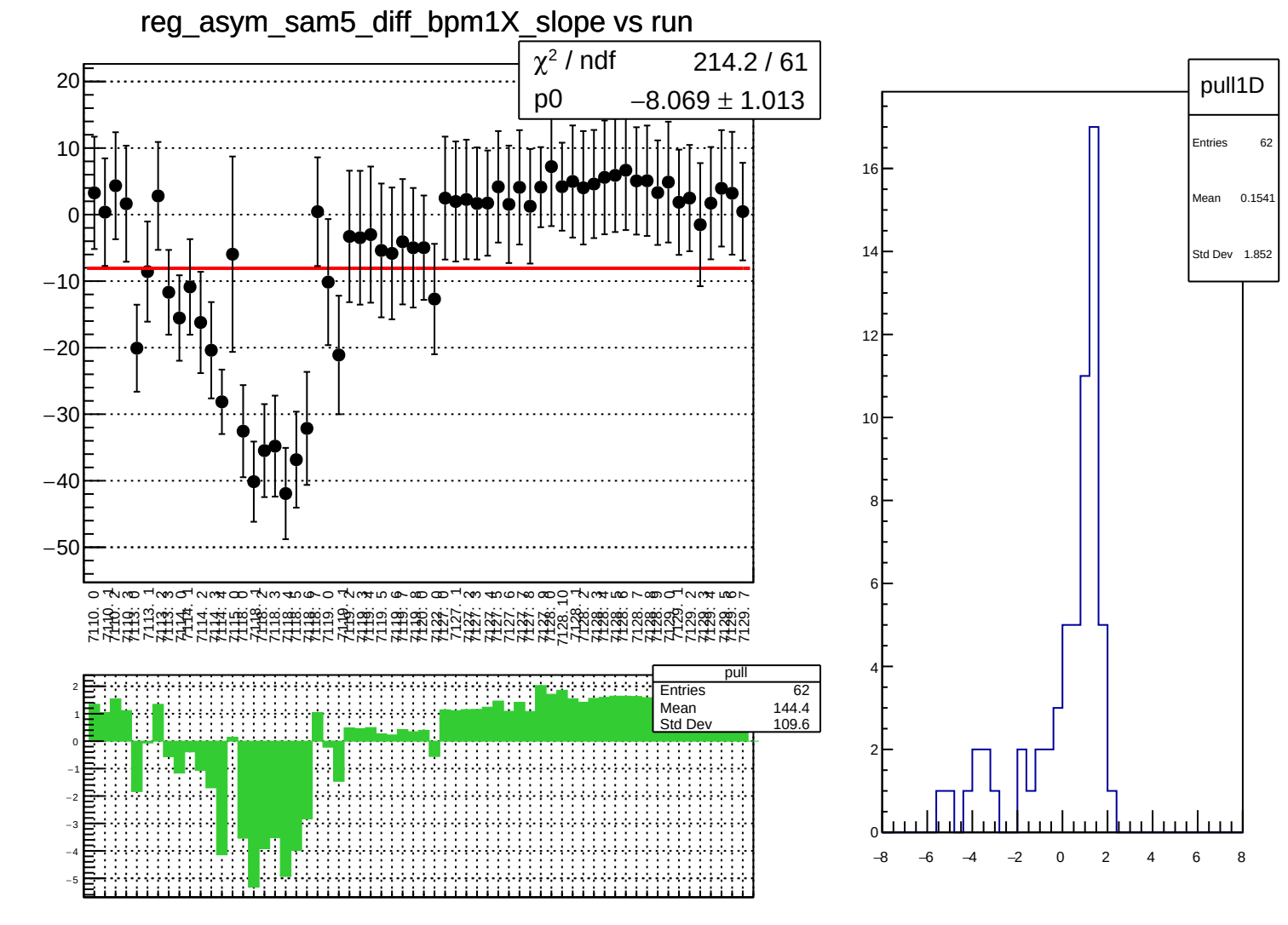

pull1D
Entries 62
Mean 0.01945
Std Dev 1.99

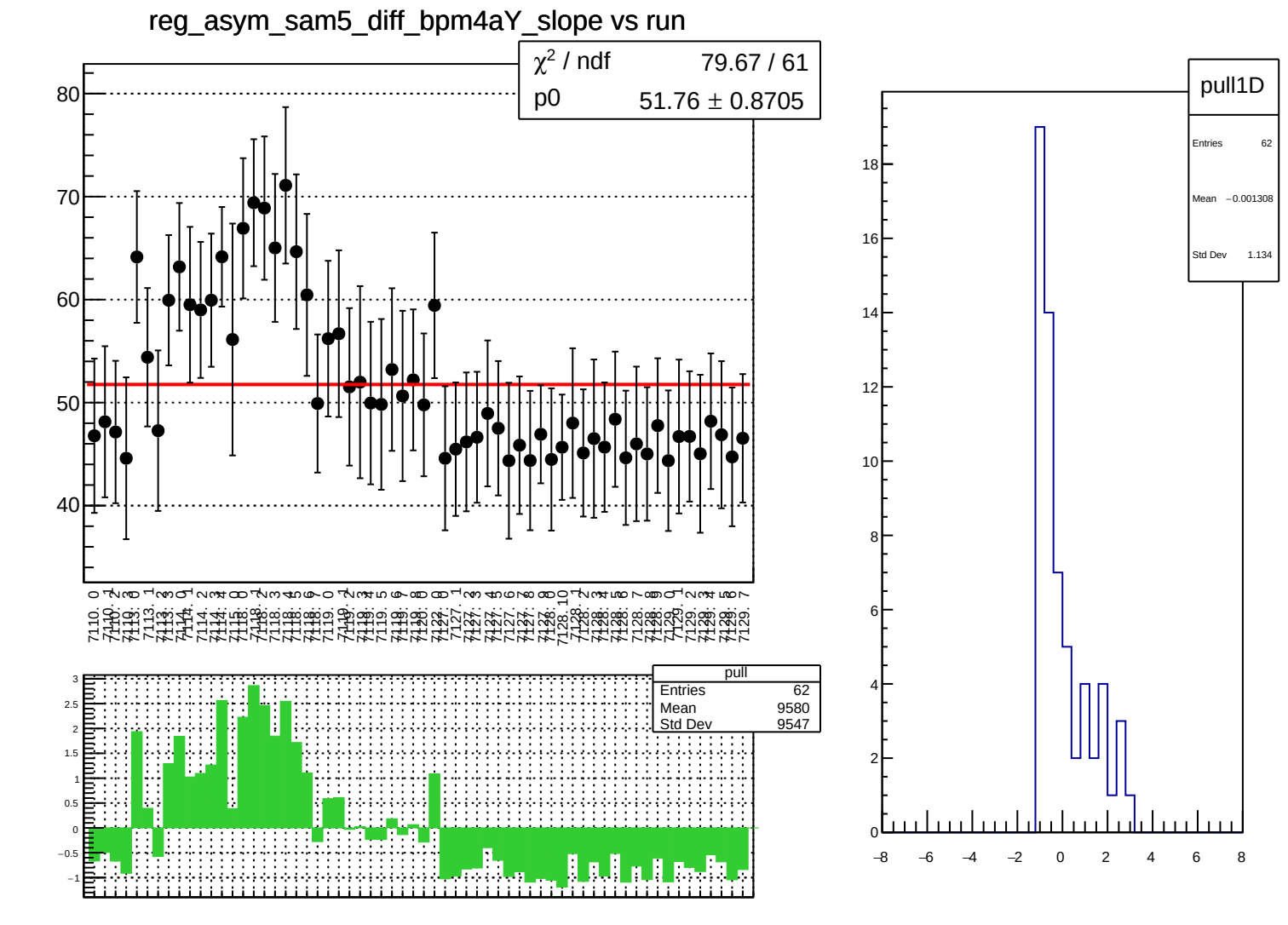

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 518.8 / 61
p0 −93.22 ± 2.167
pull
Entries 62
Mean 128.1
Std Dev 92.05
pull1D
Entries 62
Mean −0.3973
Std Dev 2.643

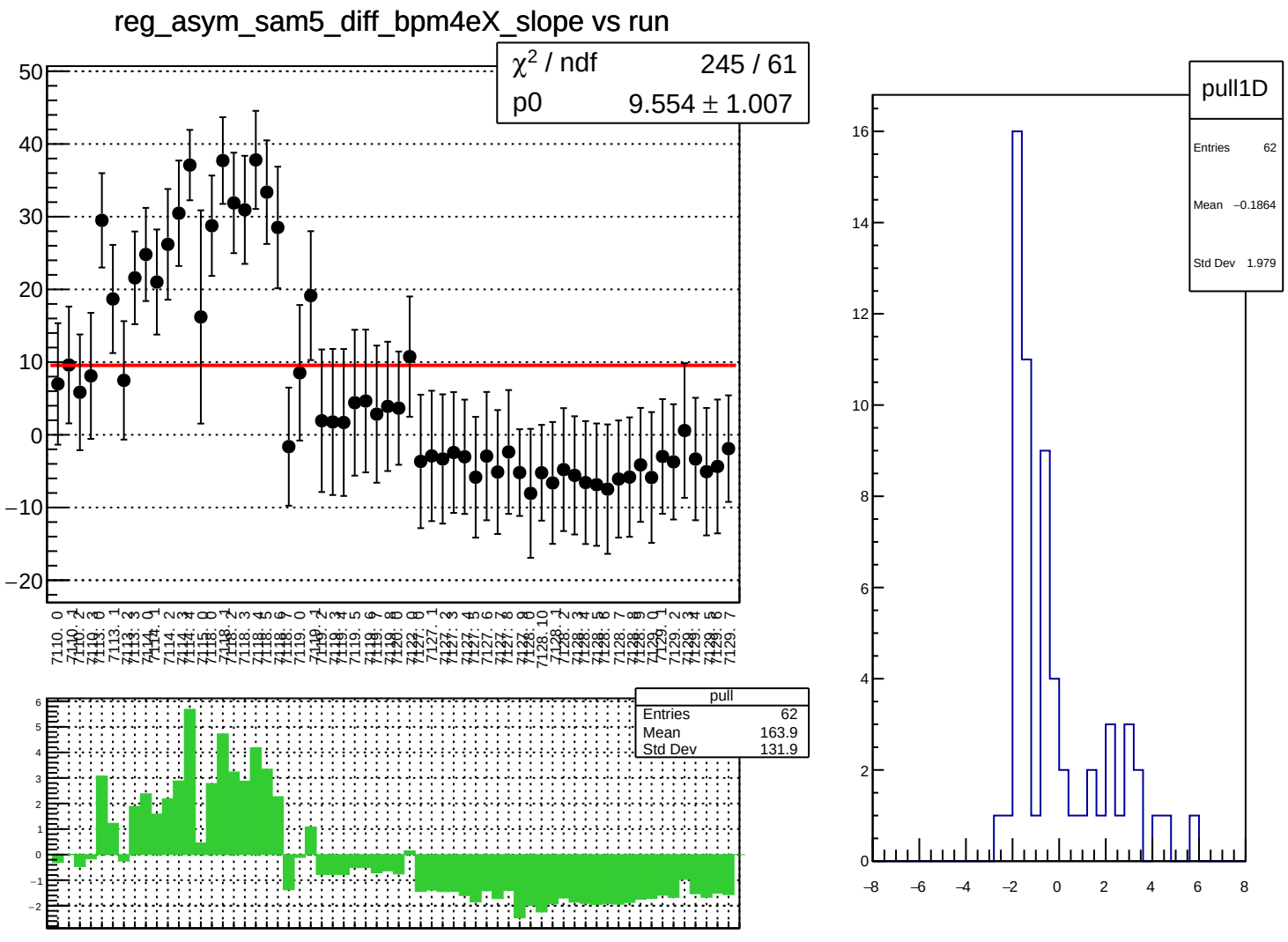

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 162.2 / 61
p0 180.4 ± 1.965
pull
Entries 62
Mean −1896
Std Dev 1934
pull1D
Entries 62
Mean −0.005848
Std Dev 1.617

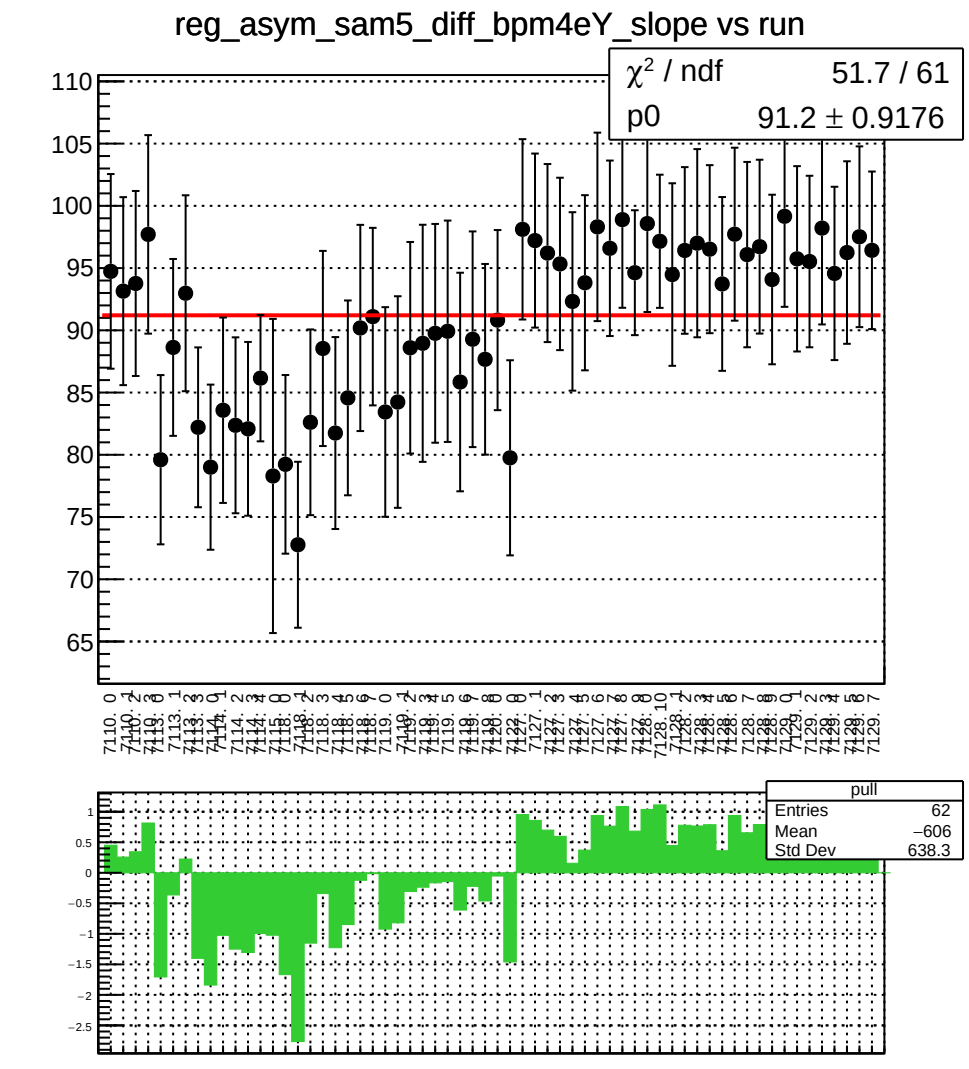

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 110.7 / 61
p0 −0.9907 ± 0.08901
pull
Entries 62
Mean −162.7
Std Dev 194.1

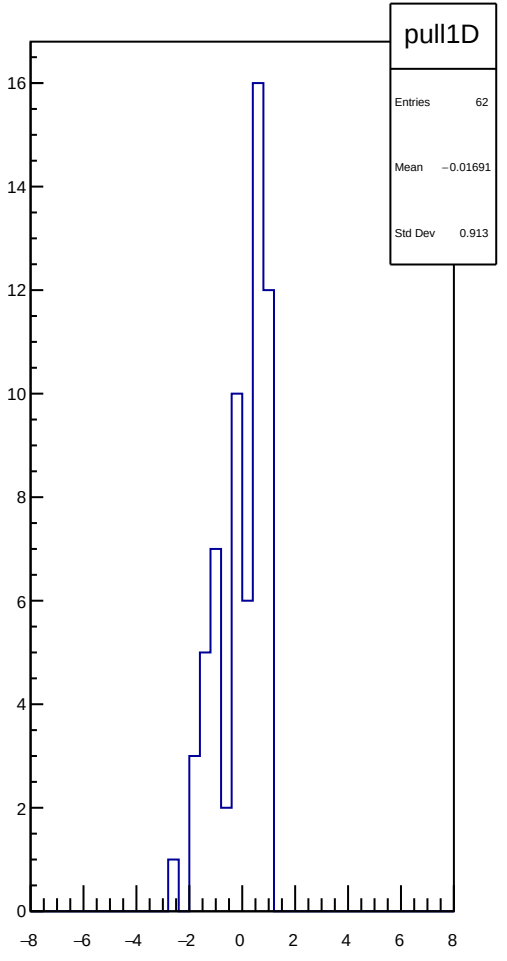

pull1D
Entries 62
Mean −0.0899
Std Dev 1.333

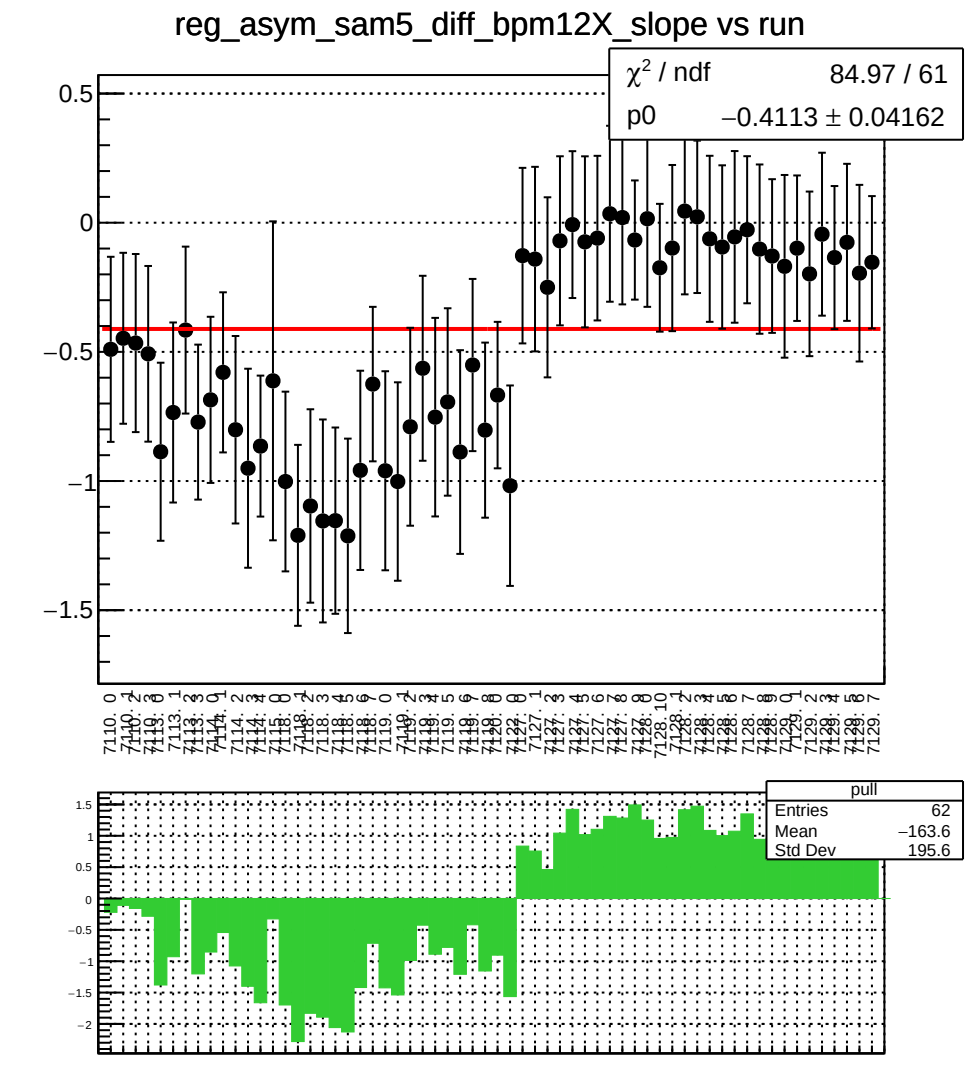

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 214.2 / 61
p0 −8.069 ± 1.013
pull
Entries 62
Mean 144.4
Std Dev 109.6
pull1D
Entries 62
Mean 0.1541
Std Dev 1.852

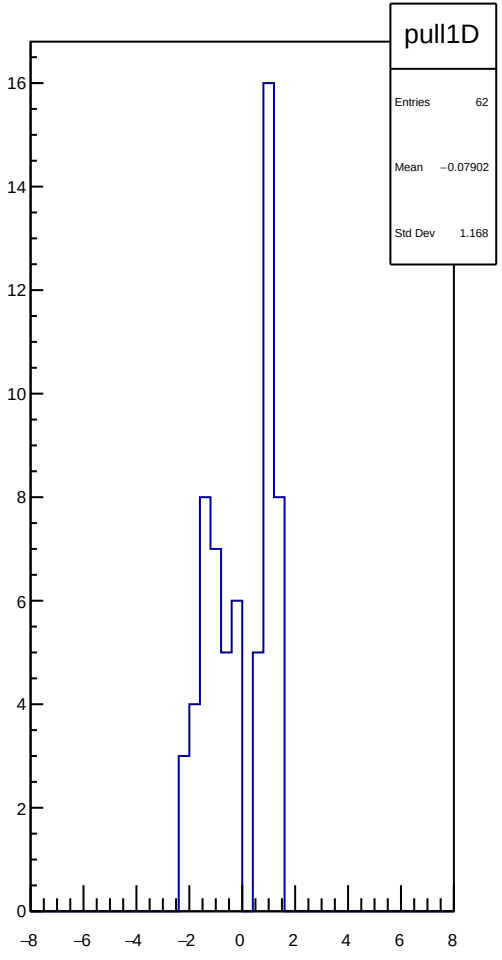

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 79.67 / 61
p0 51.76 ± 0.8705
pull
Entries 62
Mean 9580
Std Dev 9547
pull1D
Entries 62
Mean −0.001308
Std Dev 1.134

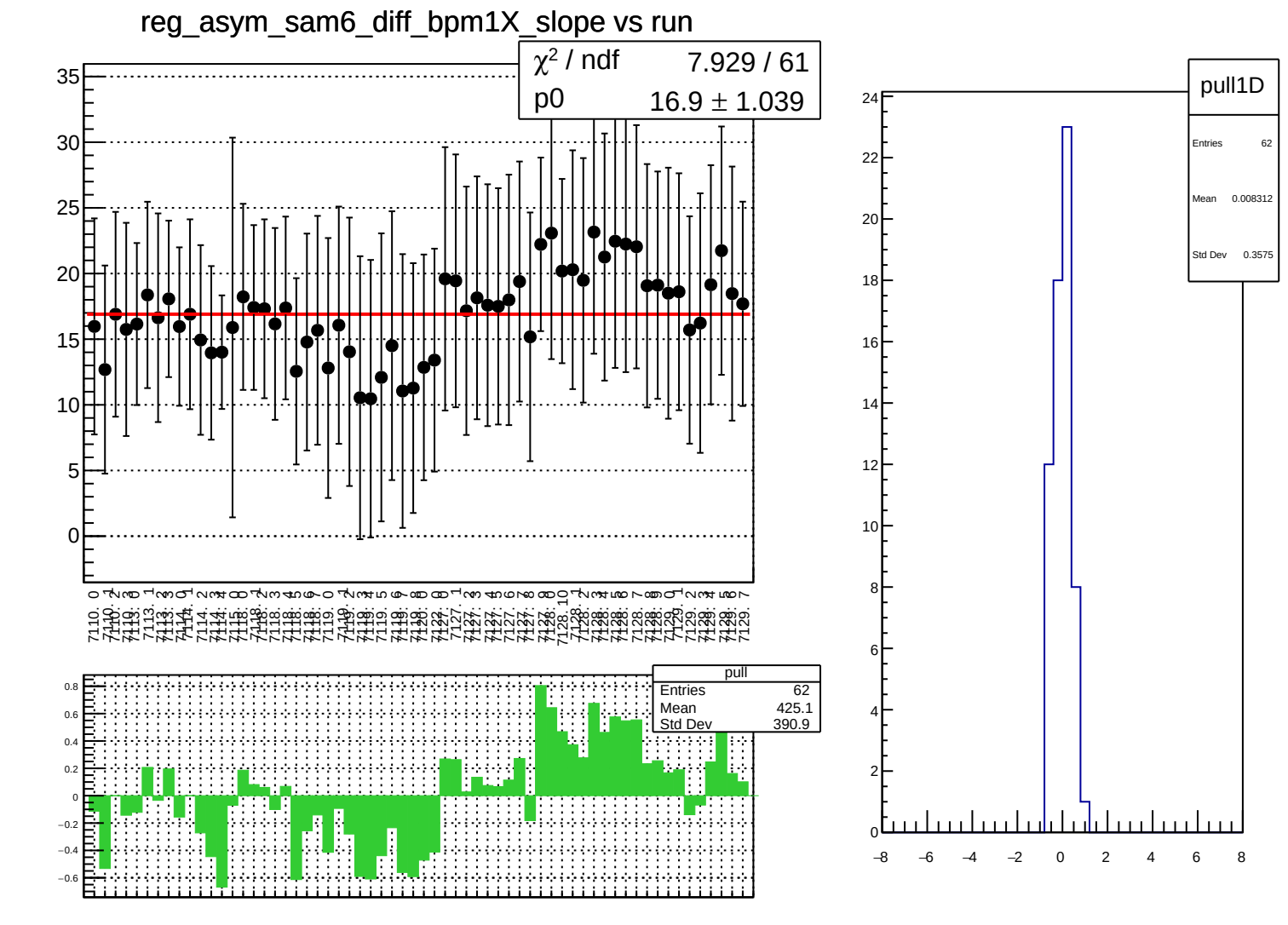

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 245 / 61
p0 9.554 ± 1.007
pull
Entries 62
Mean 163.9
Std Dev 131.9
pull1D
Entries 62
Mean −0.1864
Std Dev 1.979

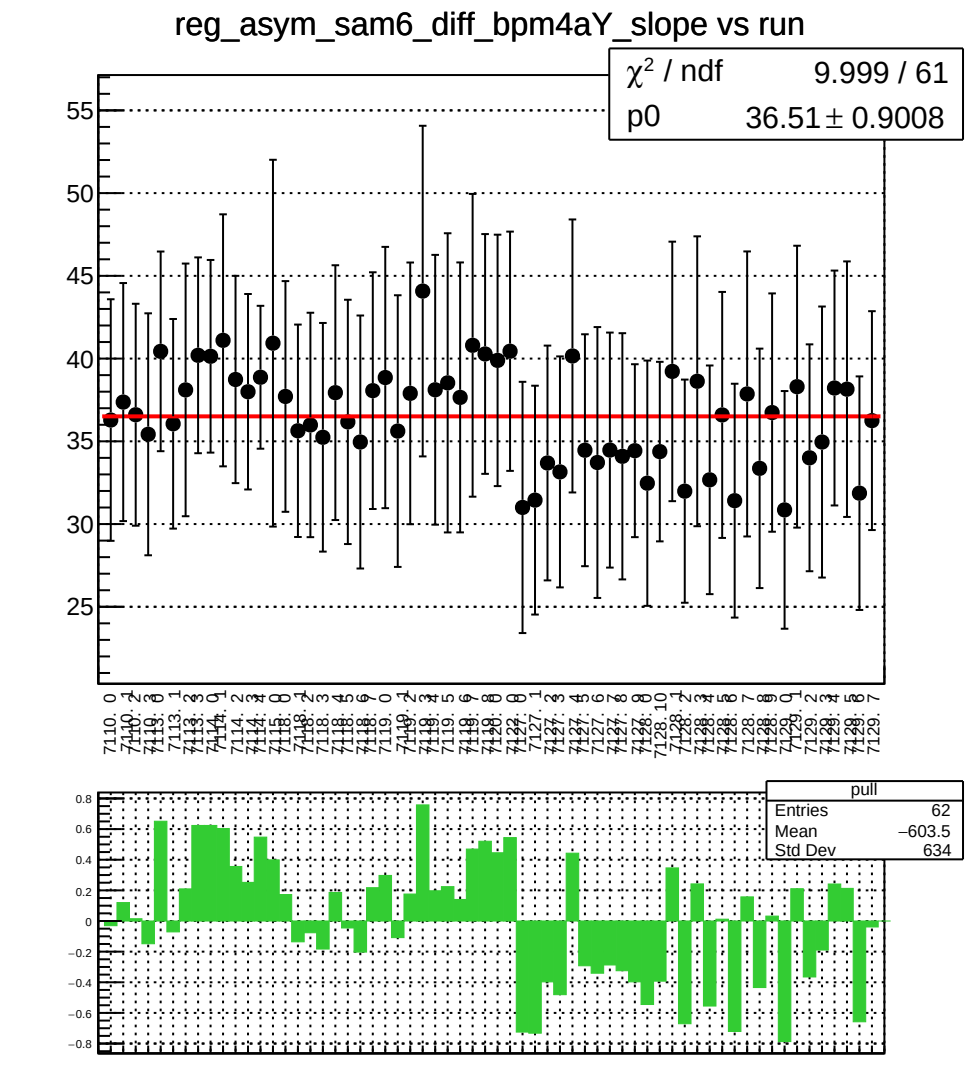

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 51.7 / 61
p0 91.2 ± 0.9176
pull
Entries 62
Mean −606
Std Dev 638.3

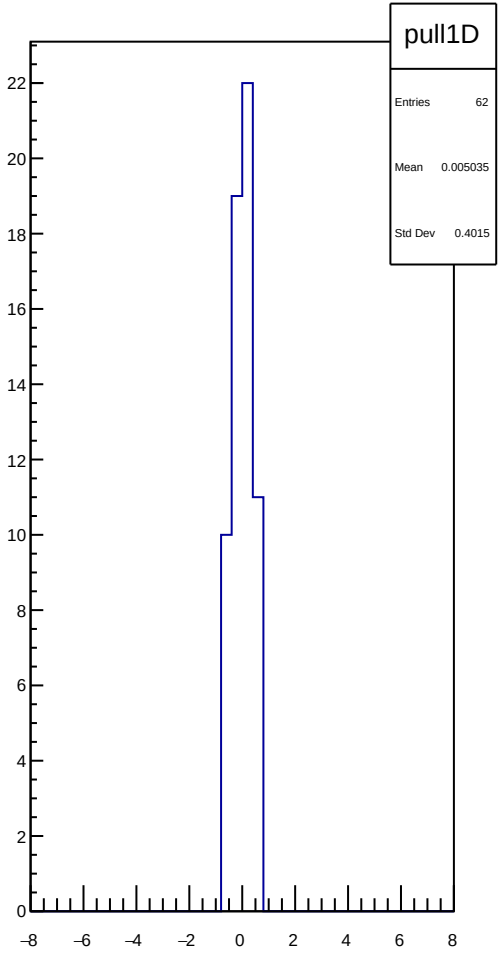

pull1D
Entries 62
Mean −0.01691
Std Dev 0.913

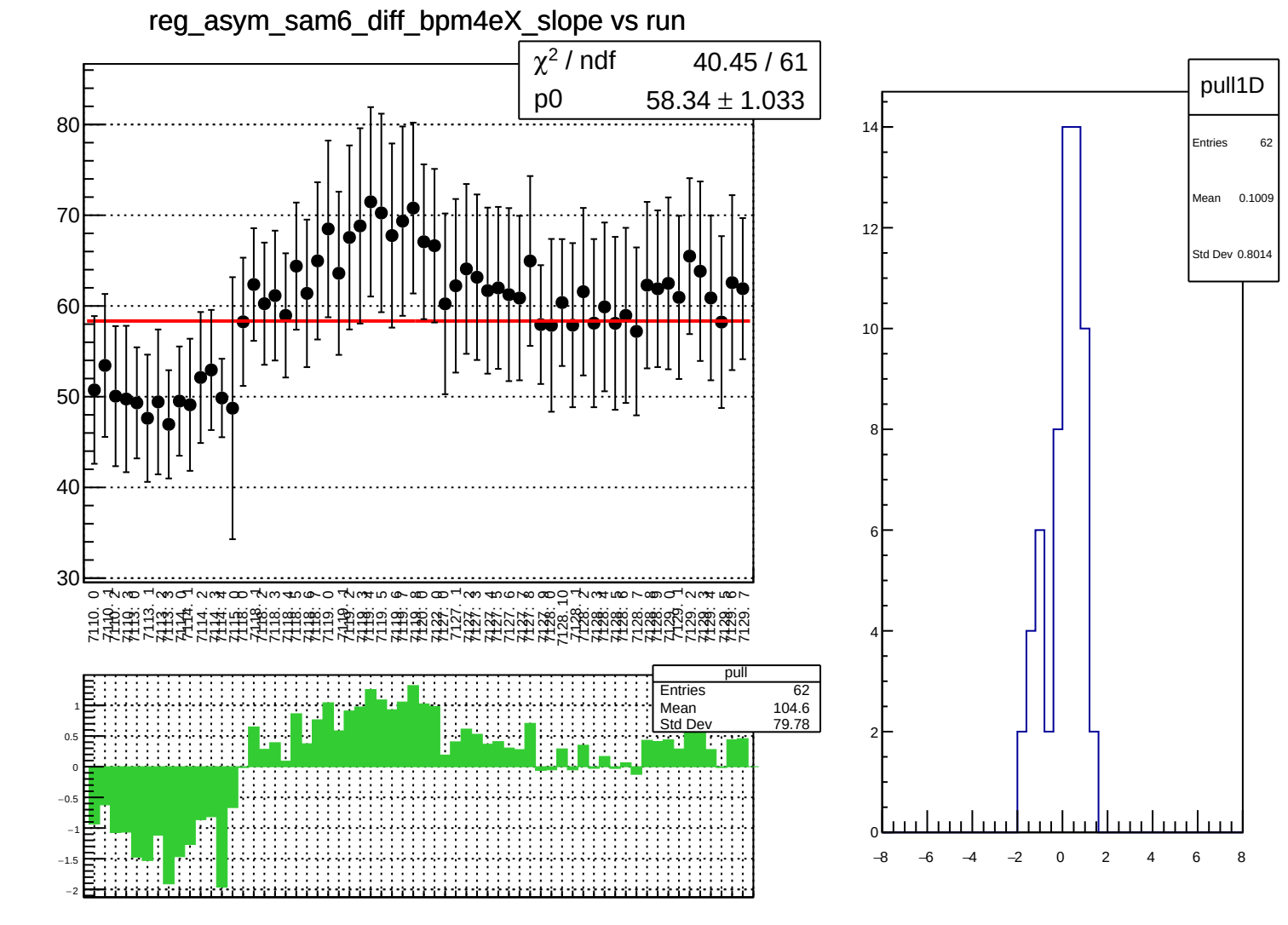

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 84.97 / 61
p0 −0.4113 ± 0.04162
pull
Entries 62
Mean −163.6
Std Dev 195.6

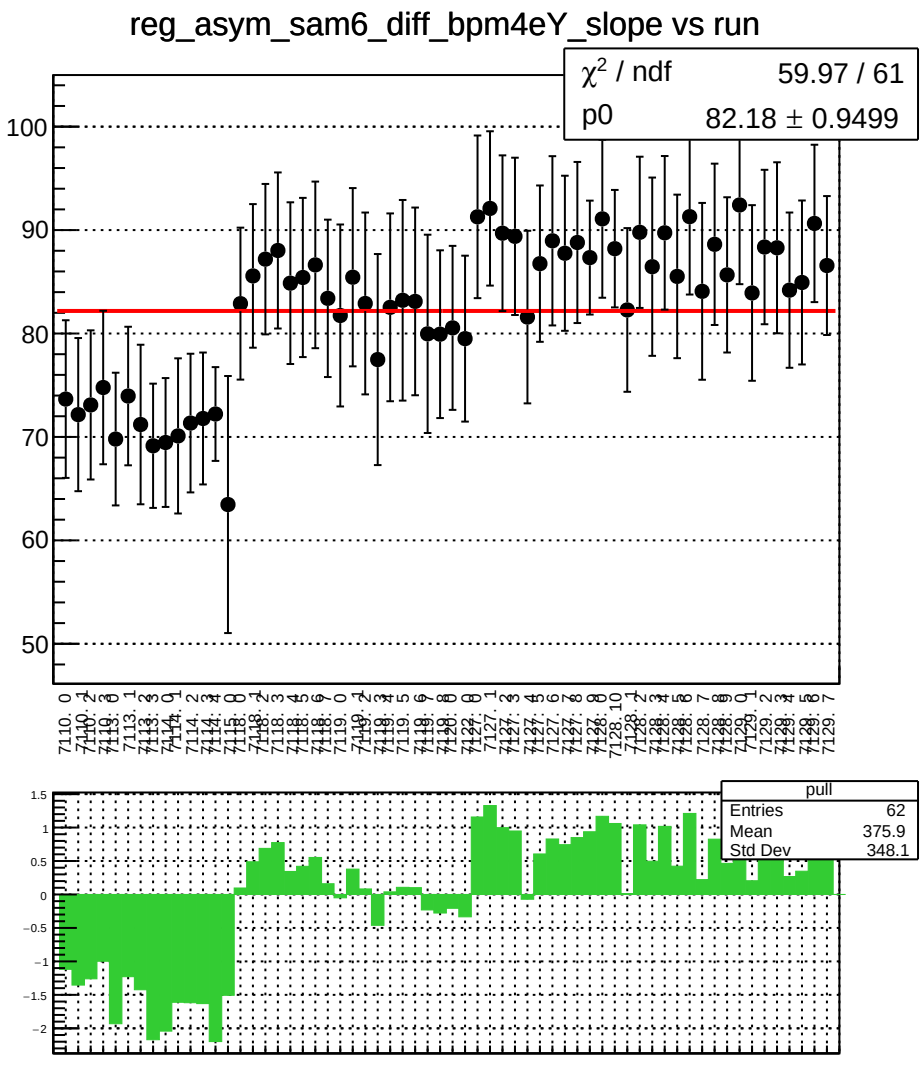

pull1D
Entries 62
Mean −0.07902
Std Dev 1.168

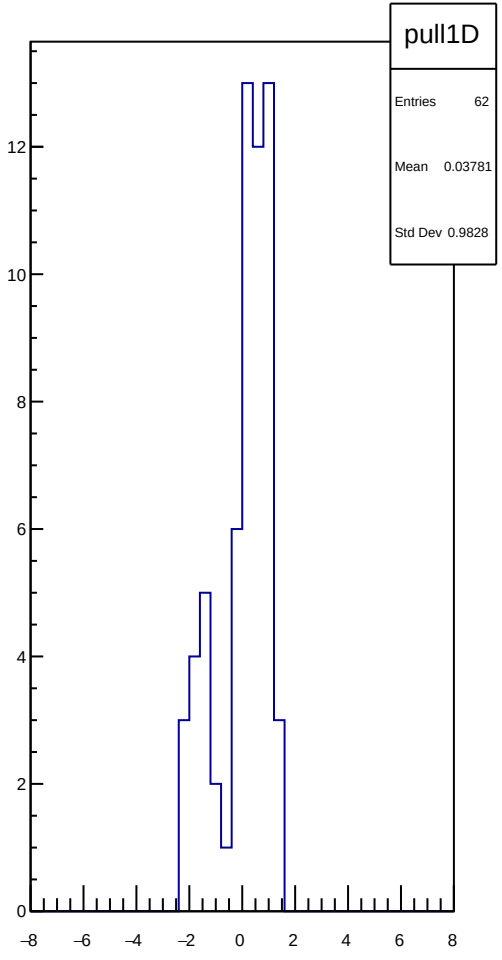

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 7.929 / 61
p0 16.9 ± 1.039
pull
Entries 62
Mean 425.1
Std Dev 390.9
pull1D
Entries 62
Mean 0.008312
Std Dev 0.3575

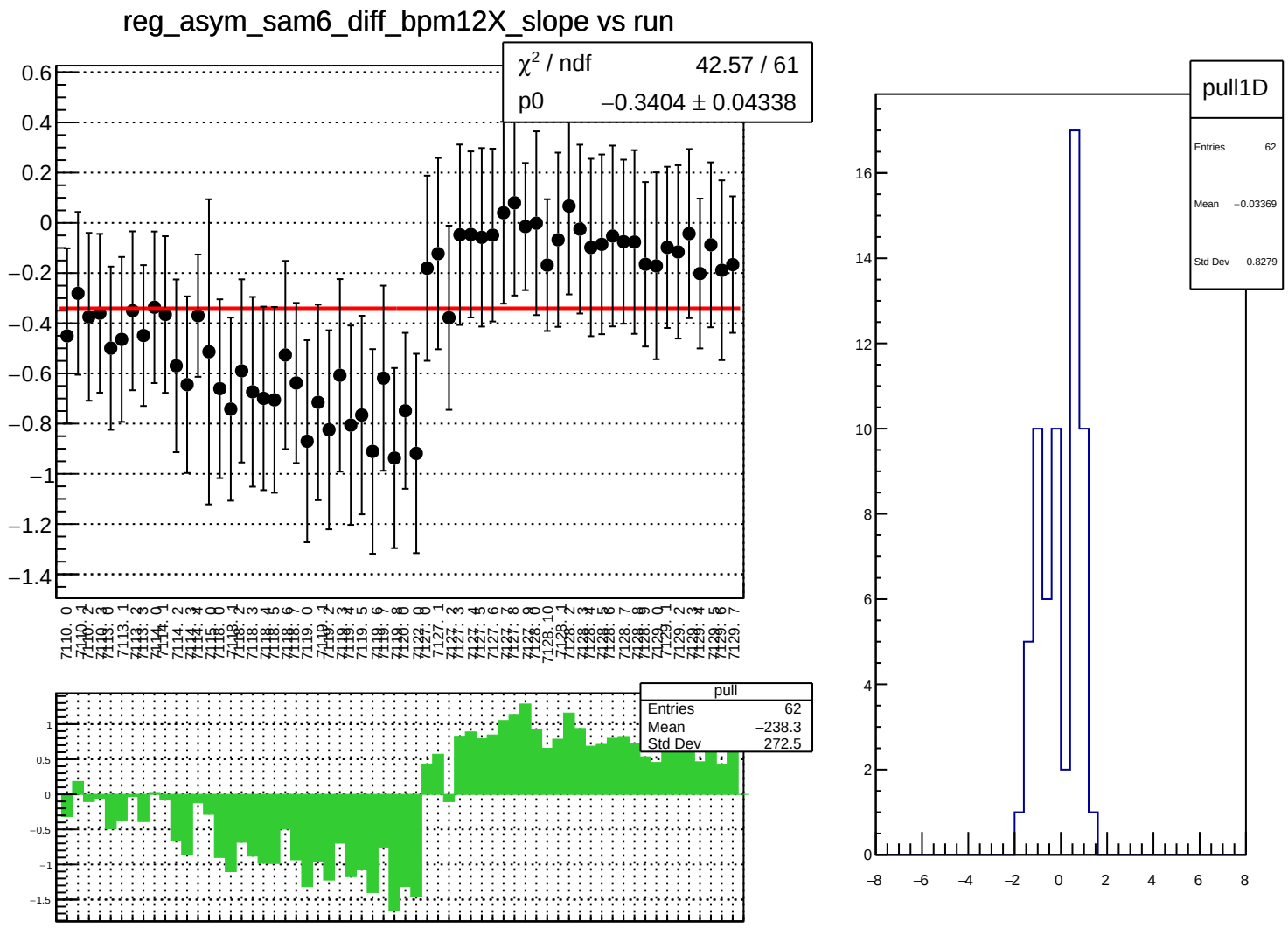

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 9.999 / 61
p0 36.51 ± 0.9008
pull
Entries 62
Mean −603.5
Std Dev 634

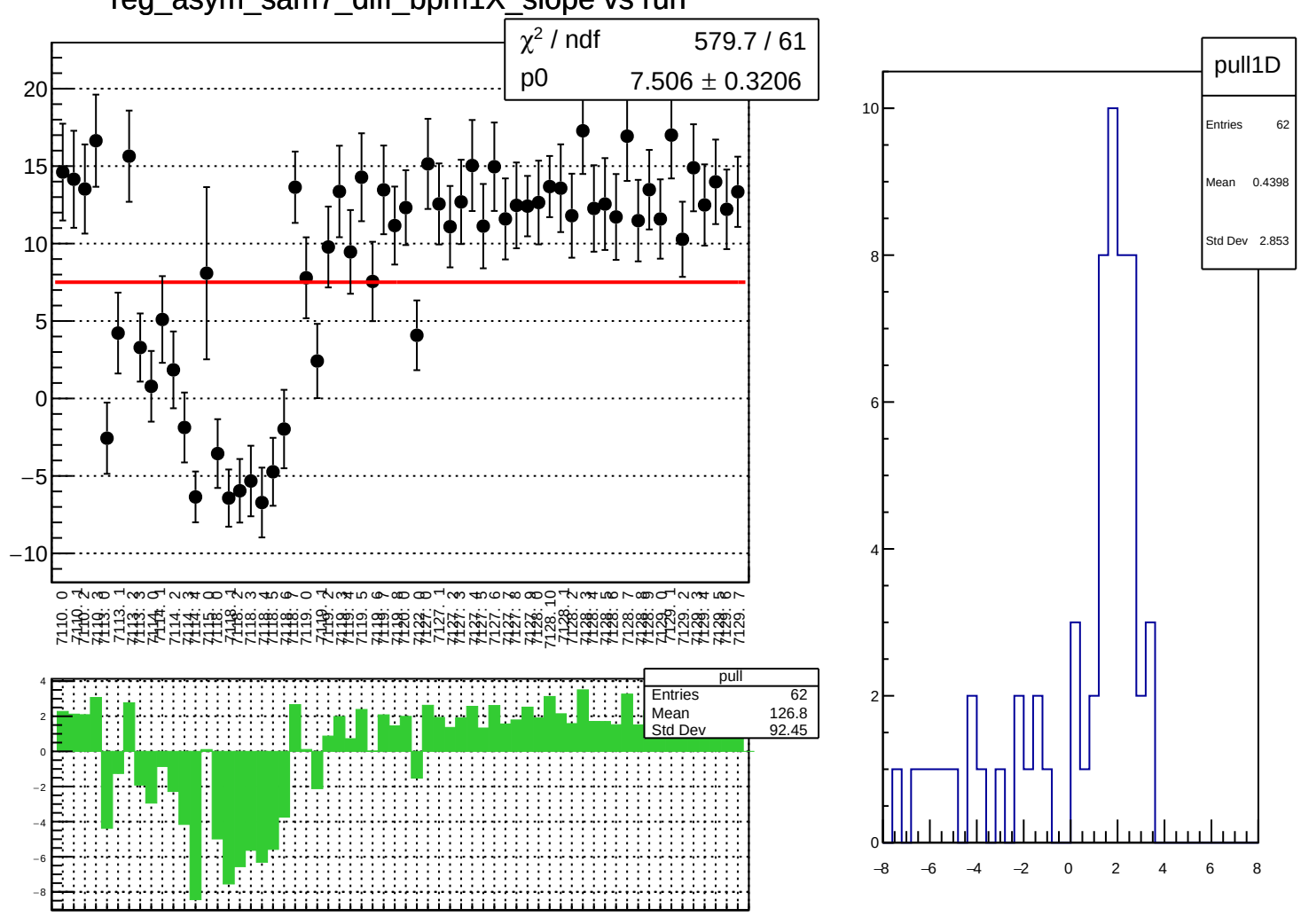

pull1D
Entries 62
Mean 0.005035
Std Dev 0.4015

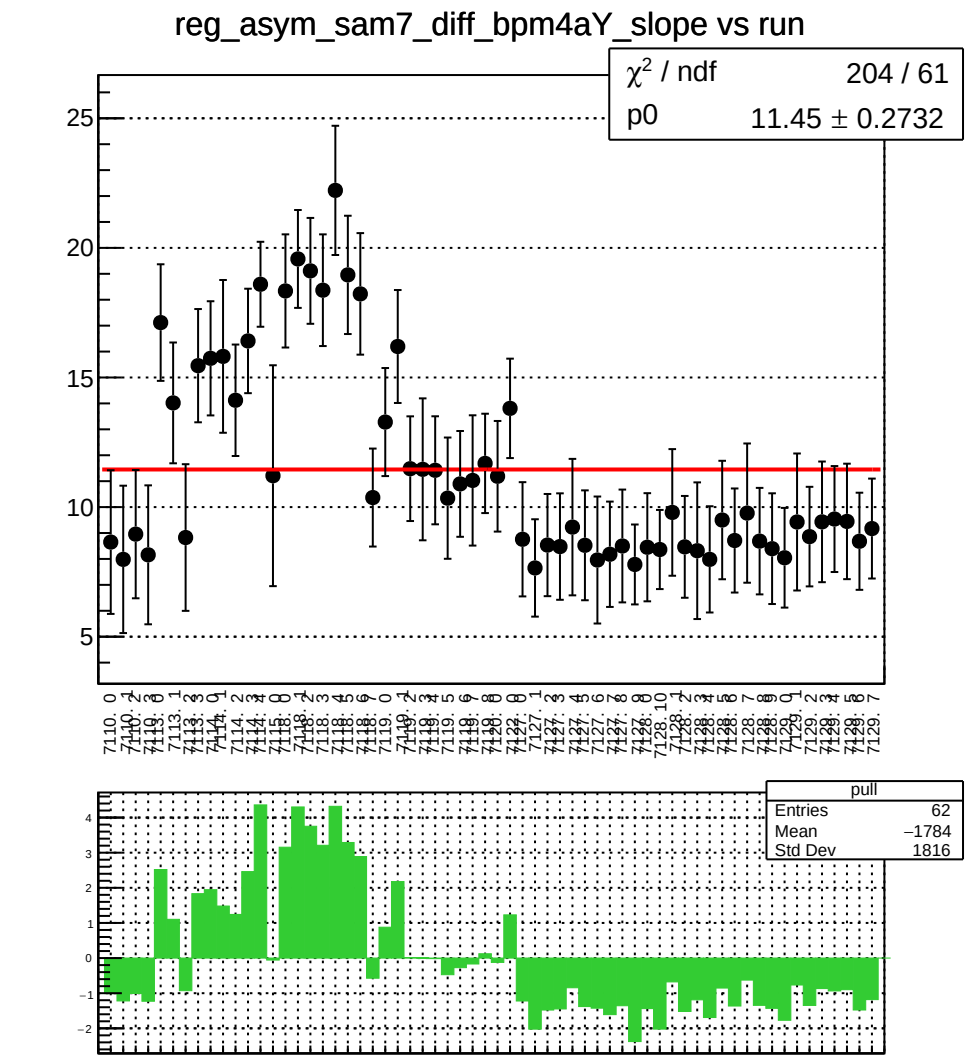

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 40.45 / 61
p0 58.34 ± 1.033
pull
Entries 62
Mean 104.6
Std Dev 79.78
pull1D
Entries 62
Mean 0.1009
Std Dev 0.8014

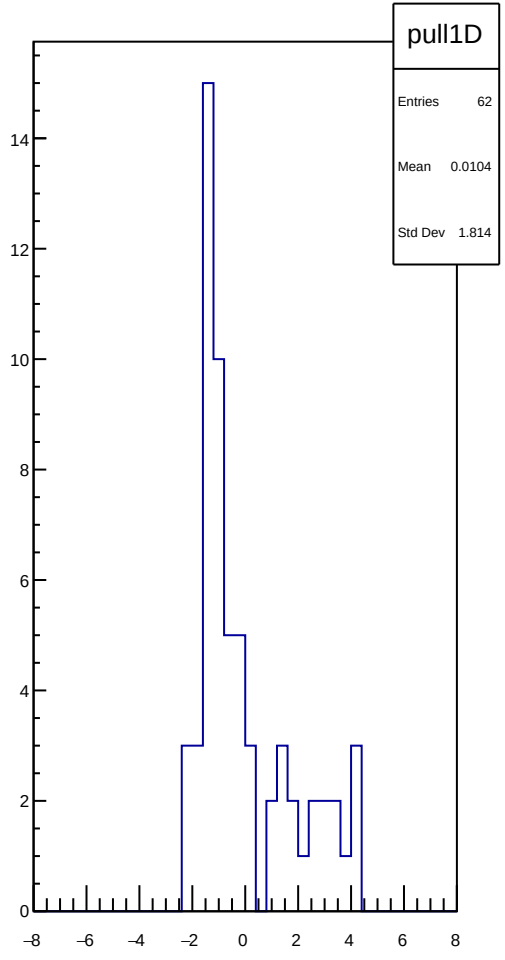

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 59.97 / 61
p0 82.18 ± 0.9499
pull
Entries 62
Mean 375.9
Std Dev 348.1

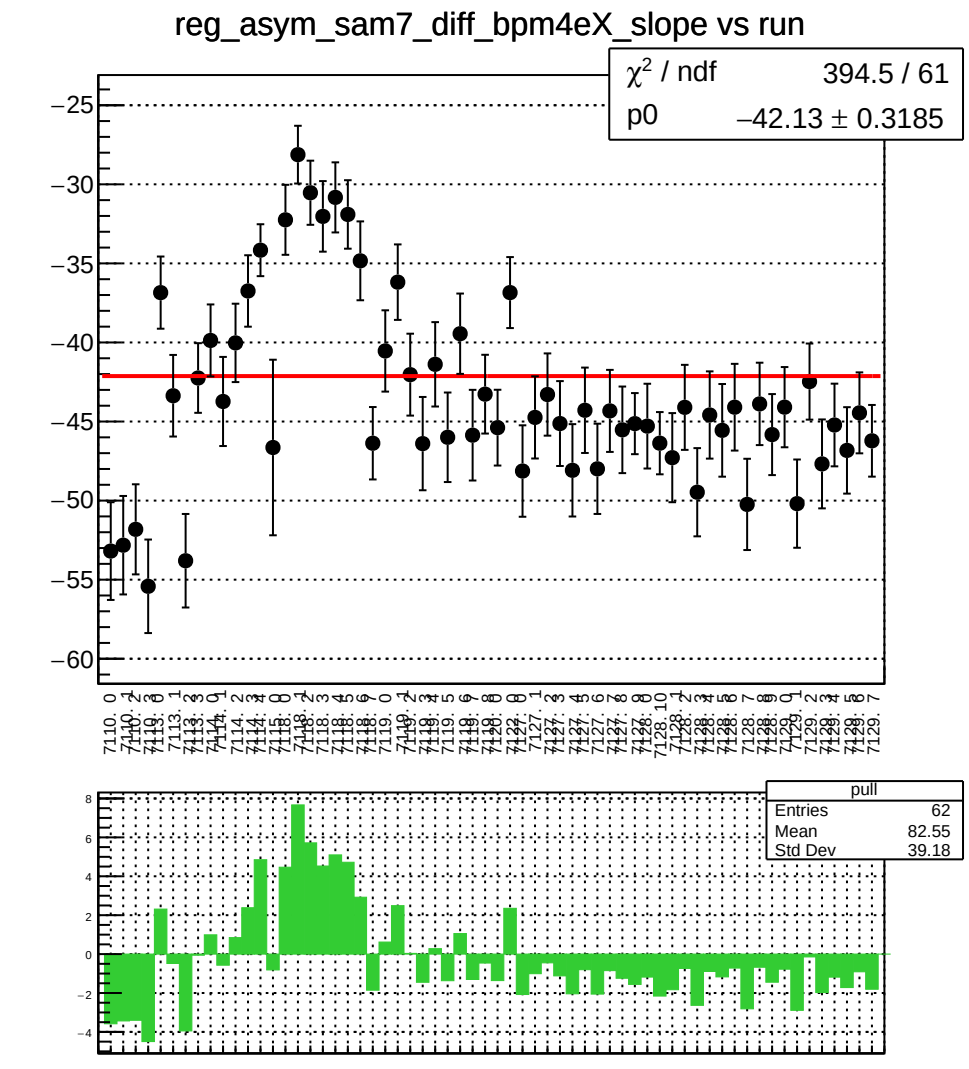

pull1D
Entries 62
Mean 0.03781
Std Dev 0.9828

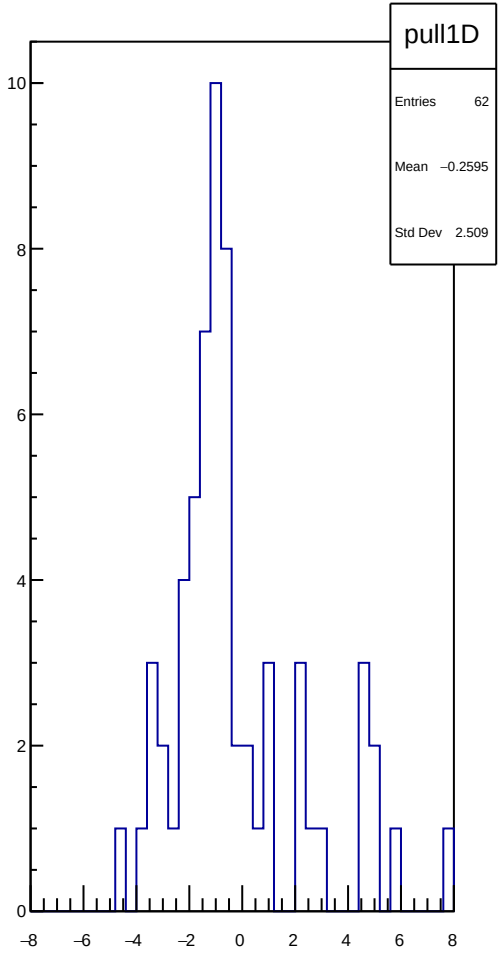

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 42.57 / 61
p0 −0.3404 ± 0.04338
pull
Entries 62
Mean −238.3
Std Dev 272.5
pull1D
Entries 62
Mean −0.03369
Std Dev 0.8279

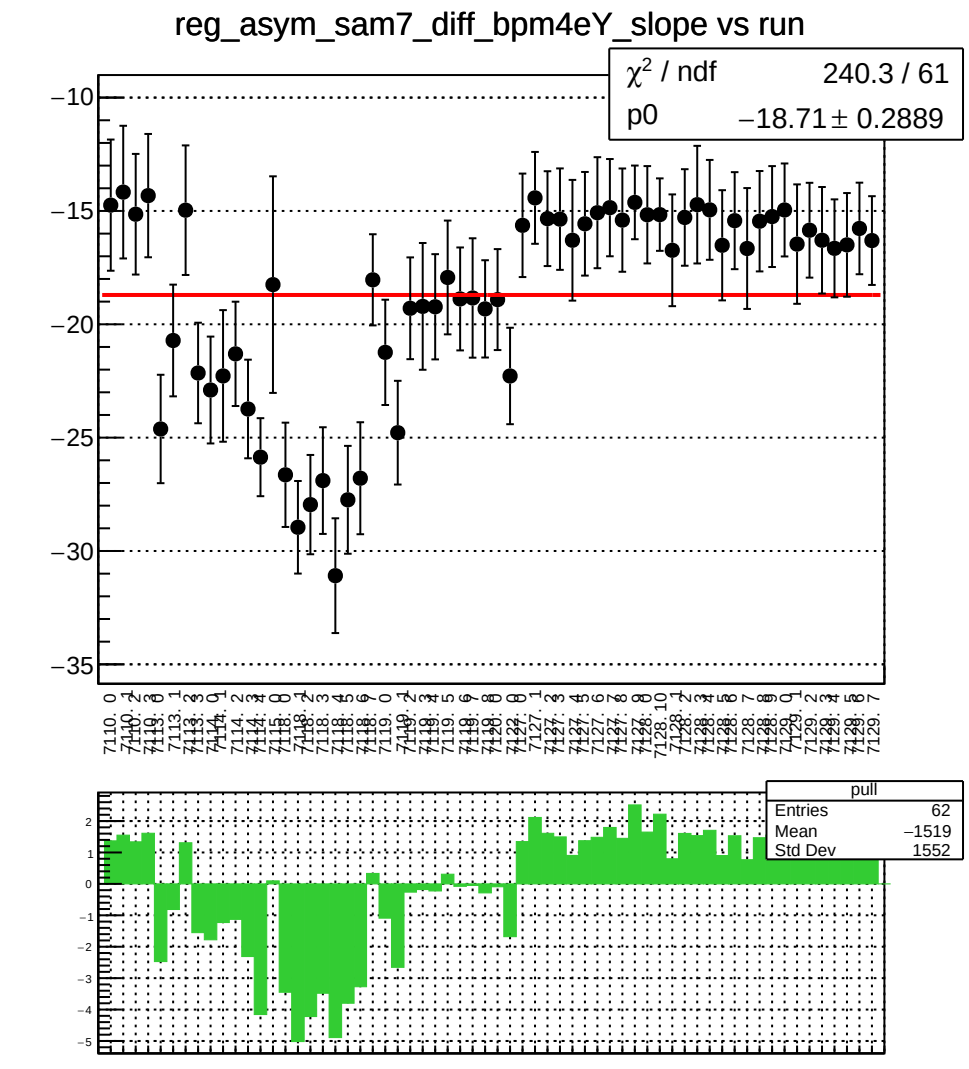

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 579.7 / 61
p0 7.506 ± 0.3206
pull
Entries 62
Mean 126.8
Std Dev 92.45
pull1D
Entries 62
Mean 0.4398
Std Dev 2.853

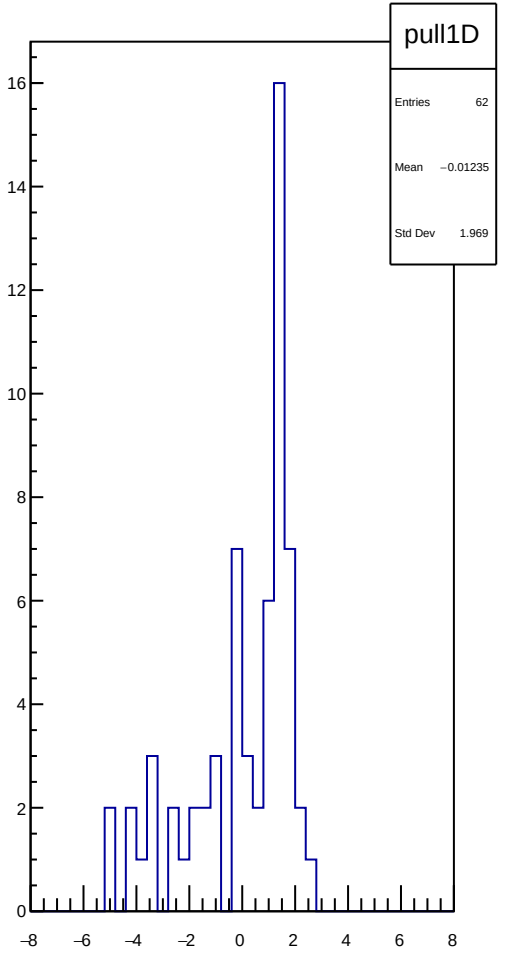

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 204 / 61
p0 11.45 ± 0.2732
pull
Entries 62
Mean −1784
Std Dev 1816

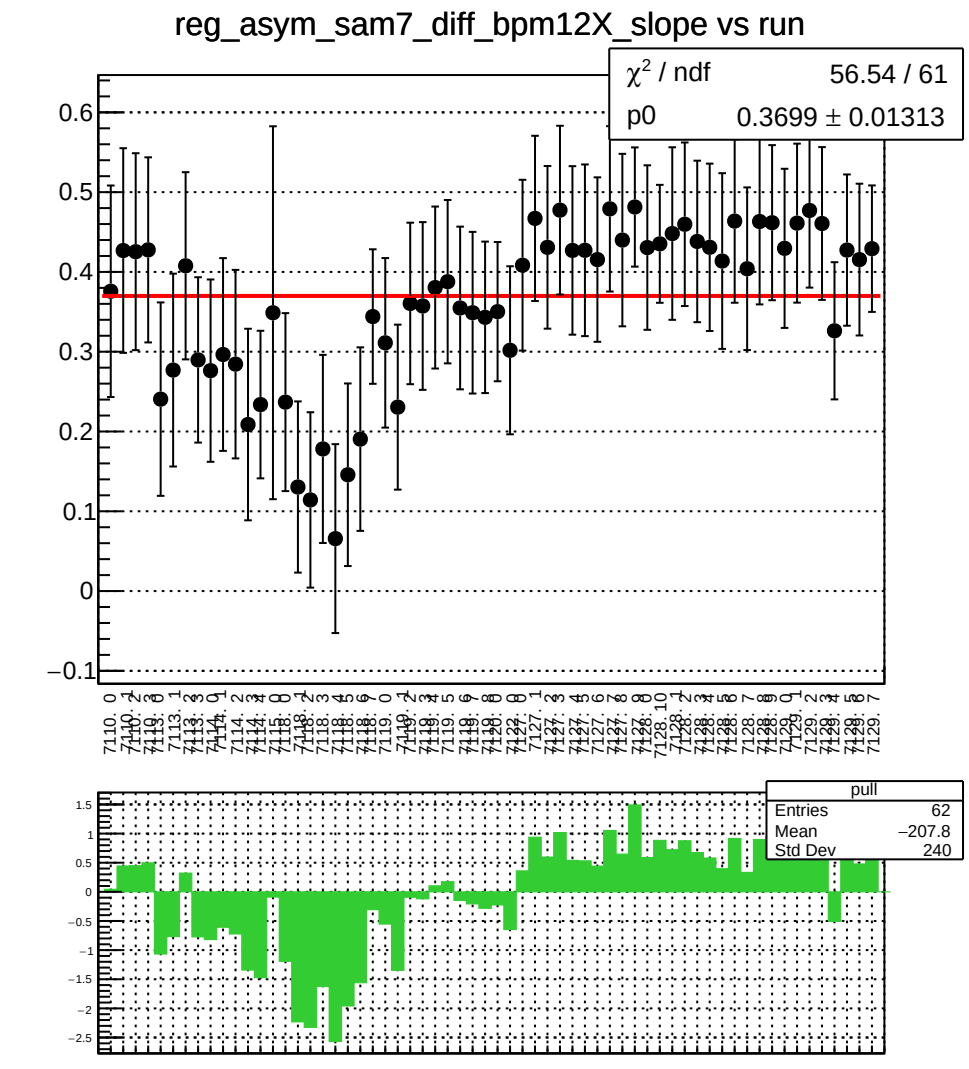

pull1D
Entries 62
Mean 0.0104
Std Dev 1.814

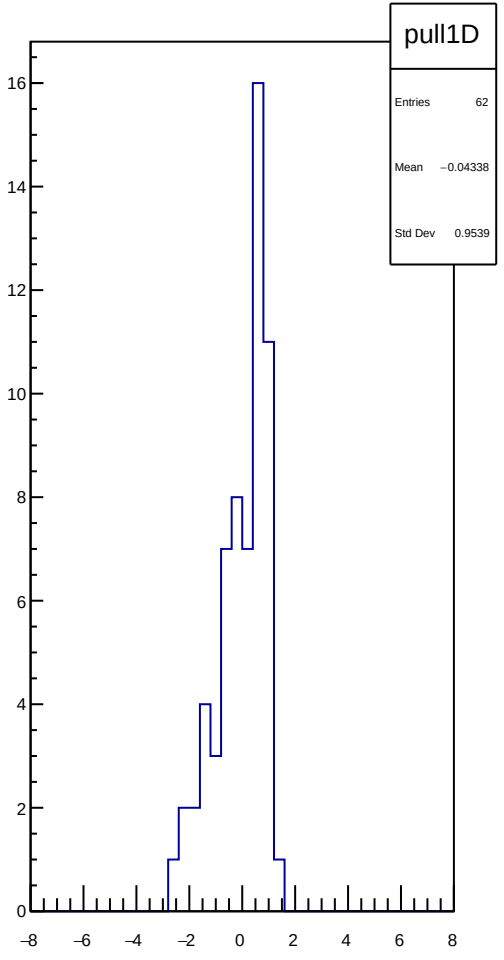

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 394.5 / 61
p0 −42.13 ± 0.3185
pull
Entries 62
Mean 82.55
Std Dev 39.18

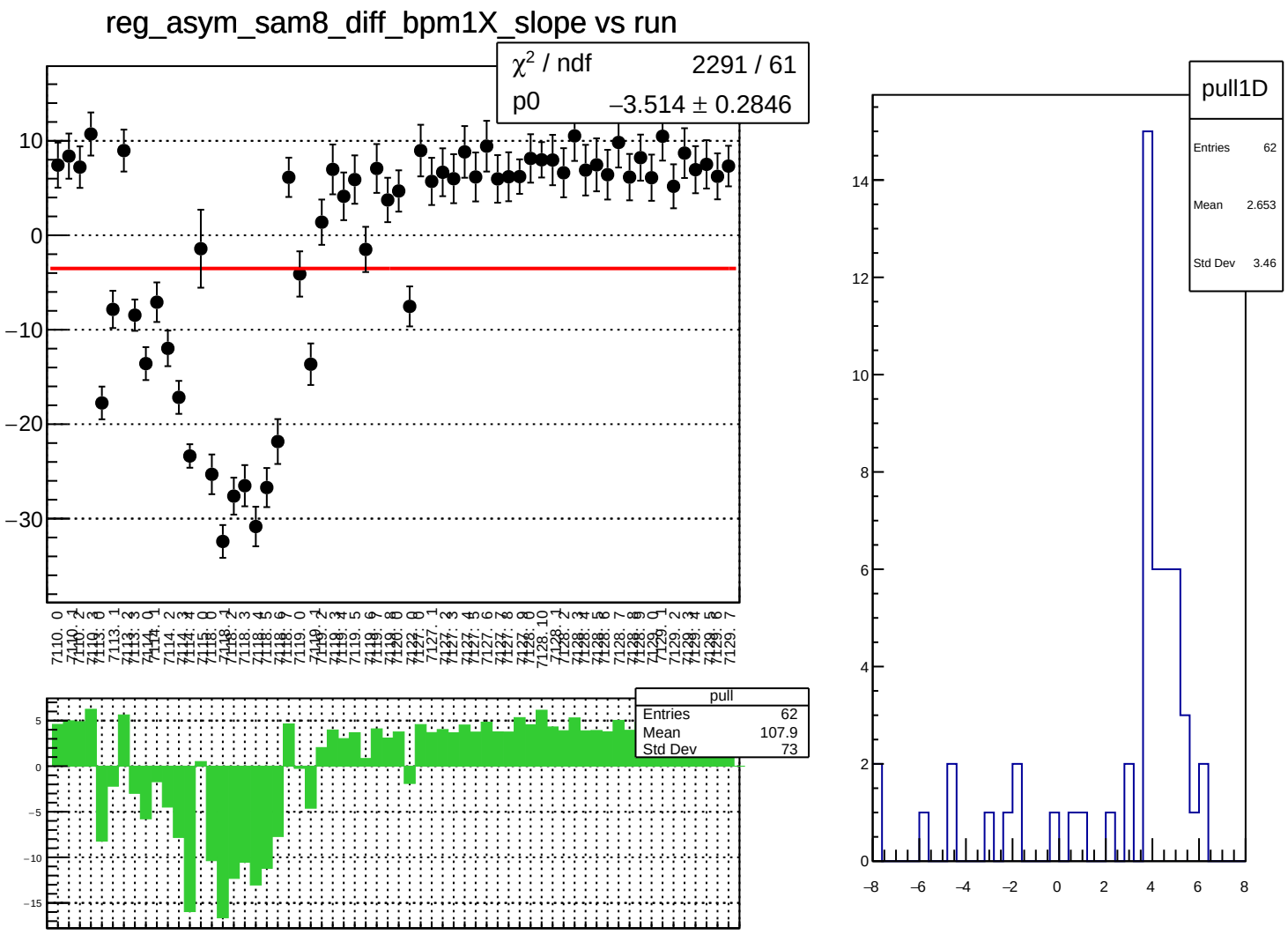

pull1D
Entries 62
Mean −0.2595
Std Dev 2.509

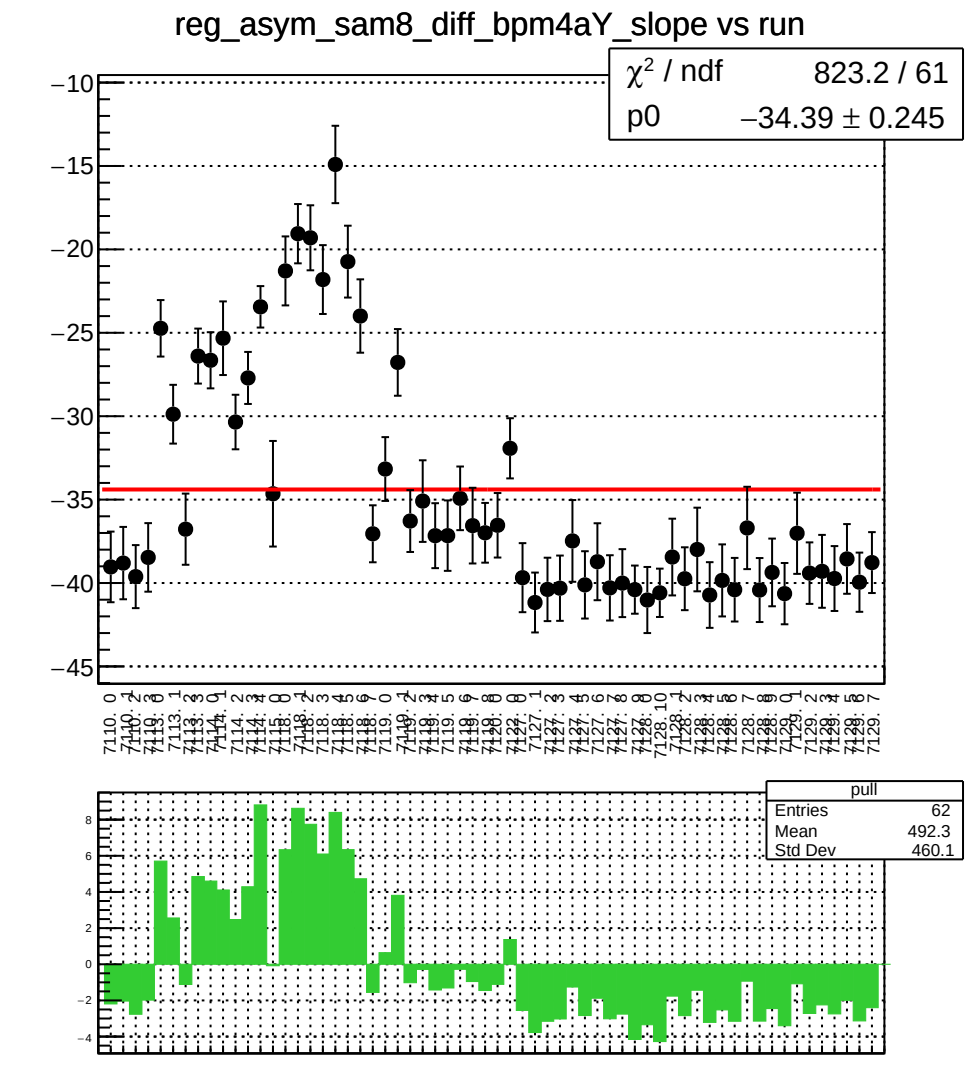

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 240.3 / 61
p0 −18.71 ± 0.2889
pull
Entries 62
Mean −1519
Std Dev 1552

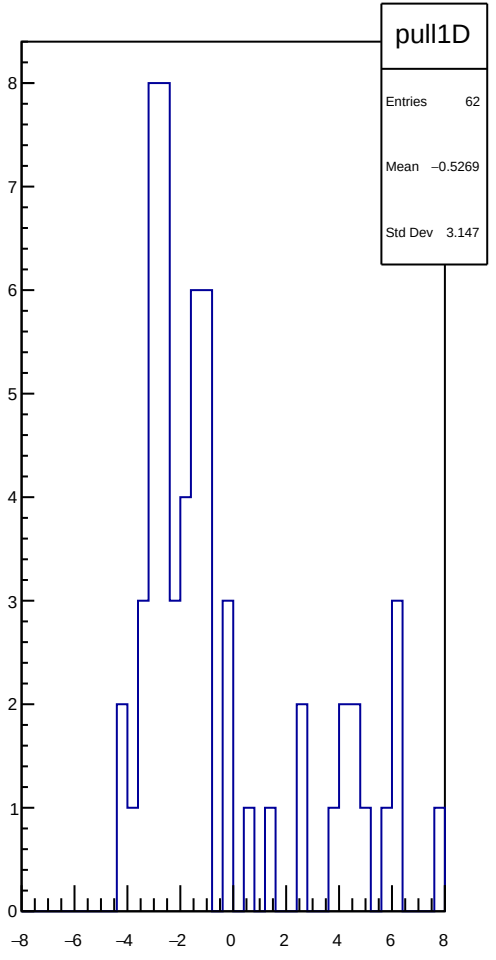

pull1D
Entries 62
Mean −0.01235
Std Dev 1.969

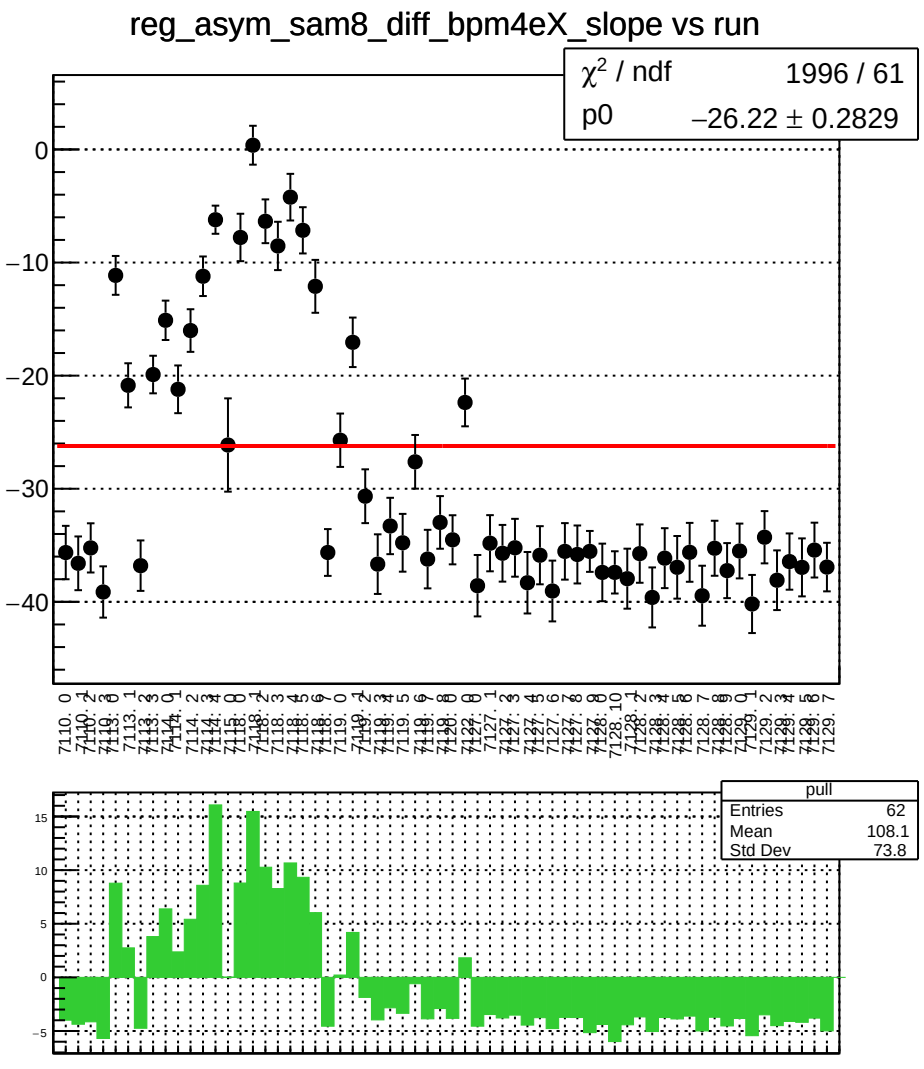

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 56.54 / 61
p0 0.3699 ± 0.01313
pull
Entries 62
Mean −207.8
Std Dev 240

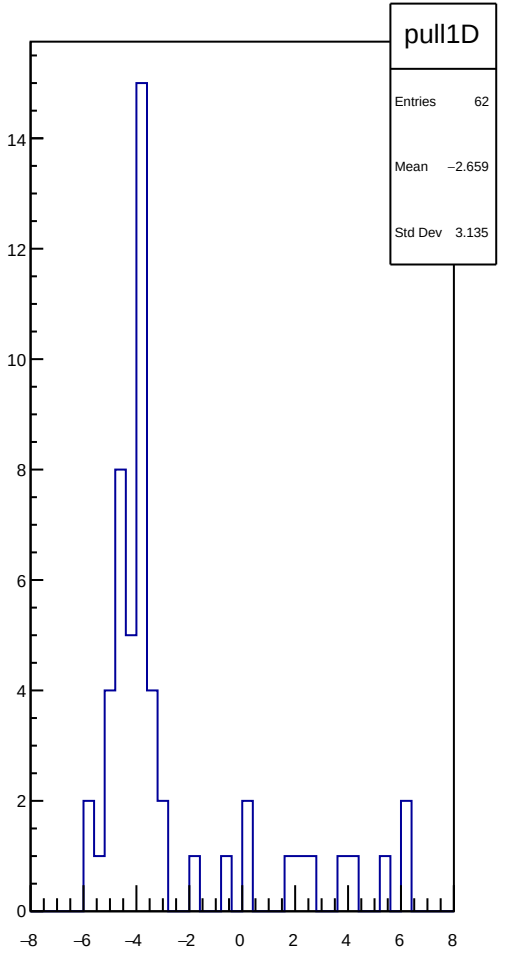

pull1D
Entries 62
Mean −0.04338
Std Dev 0.9539

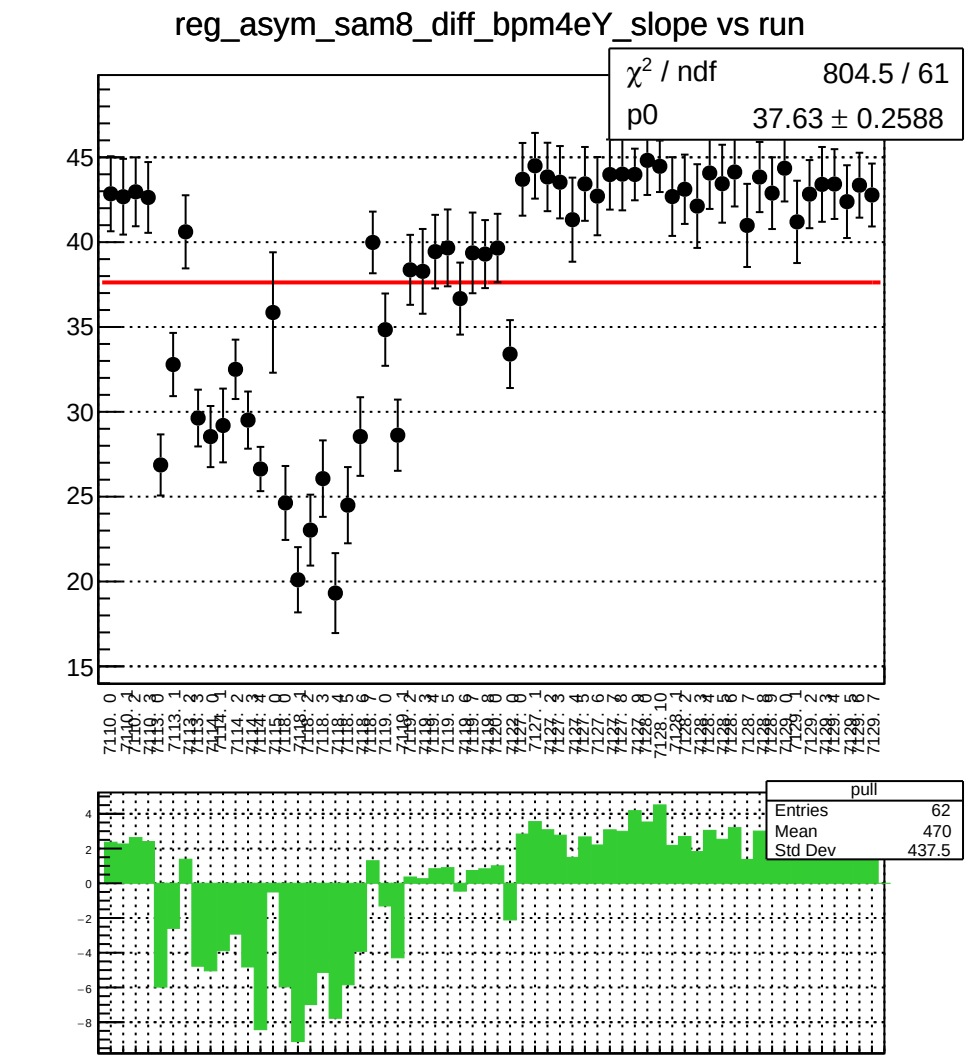

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 2291 / 61
p0 −3.514 ± 0.2846
pull
Entries 62
Mean 107.9
Std Dev 73
pull1D
Entries 62
Mean 2.653
Std Dev 3.46

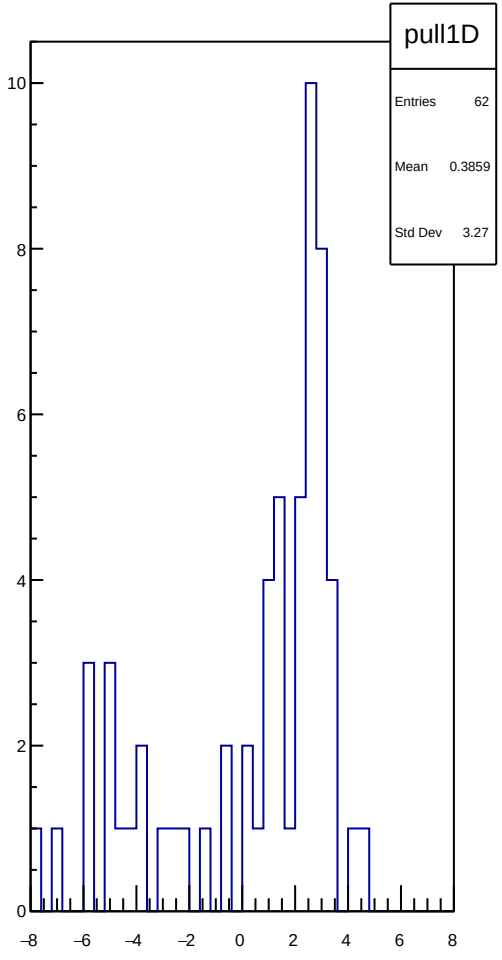

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 823.2 / 61
p0 −34.39 ± 0.245
pull
Entries 62
Mean 492.3
Std Dev 460.1

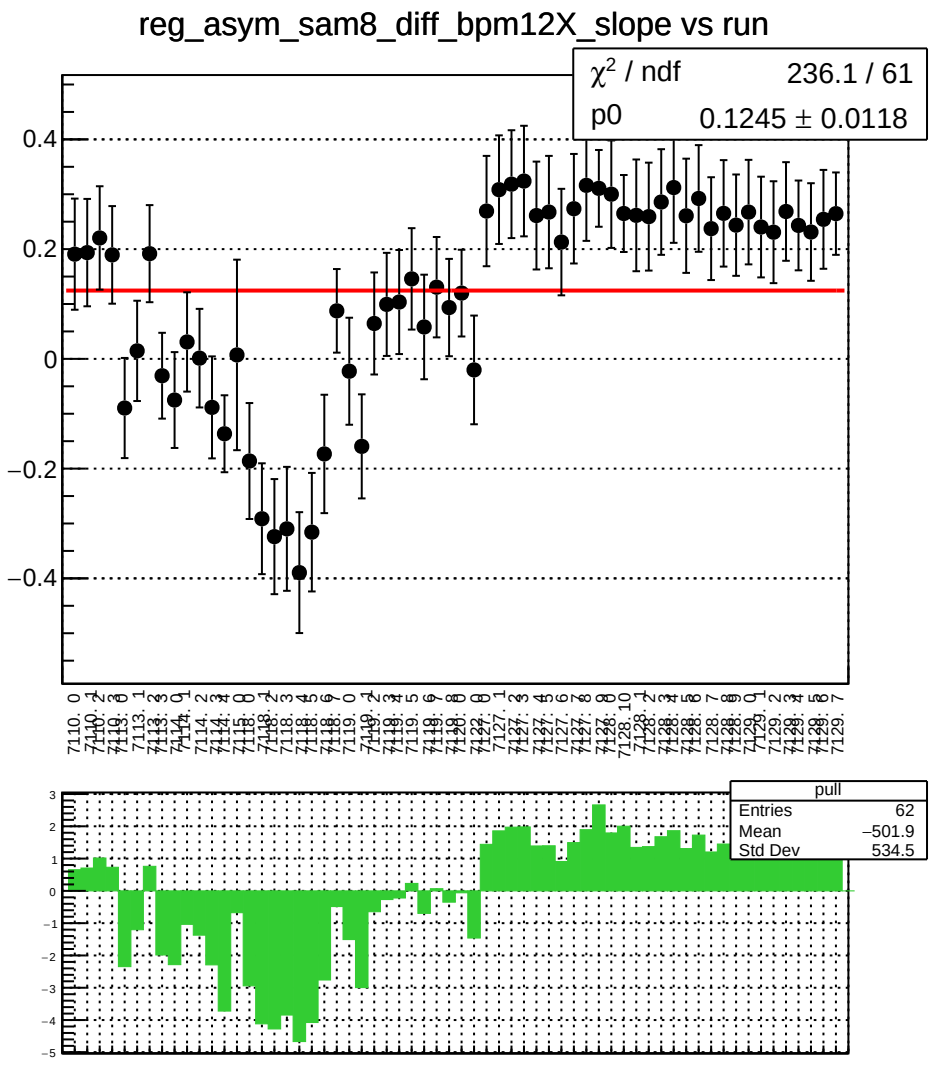

pull1D
Entries 62
Mean −0.5269
Std Dev 3.147

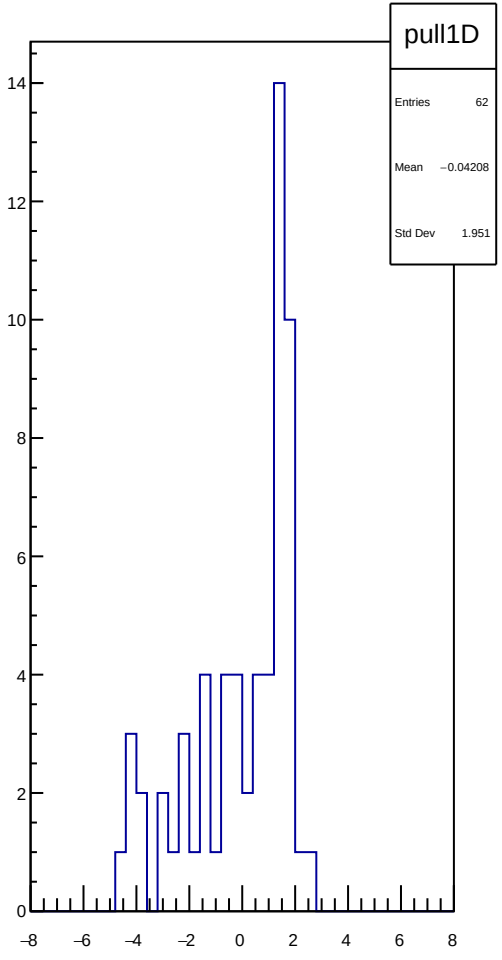

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 1996 / 61
p0 −26.22 ± 0.2829
pull
Entries 62
Mean 108.1
Std Dev 73.8

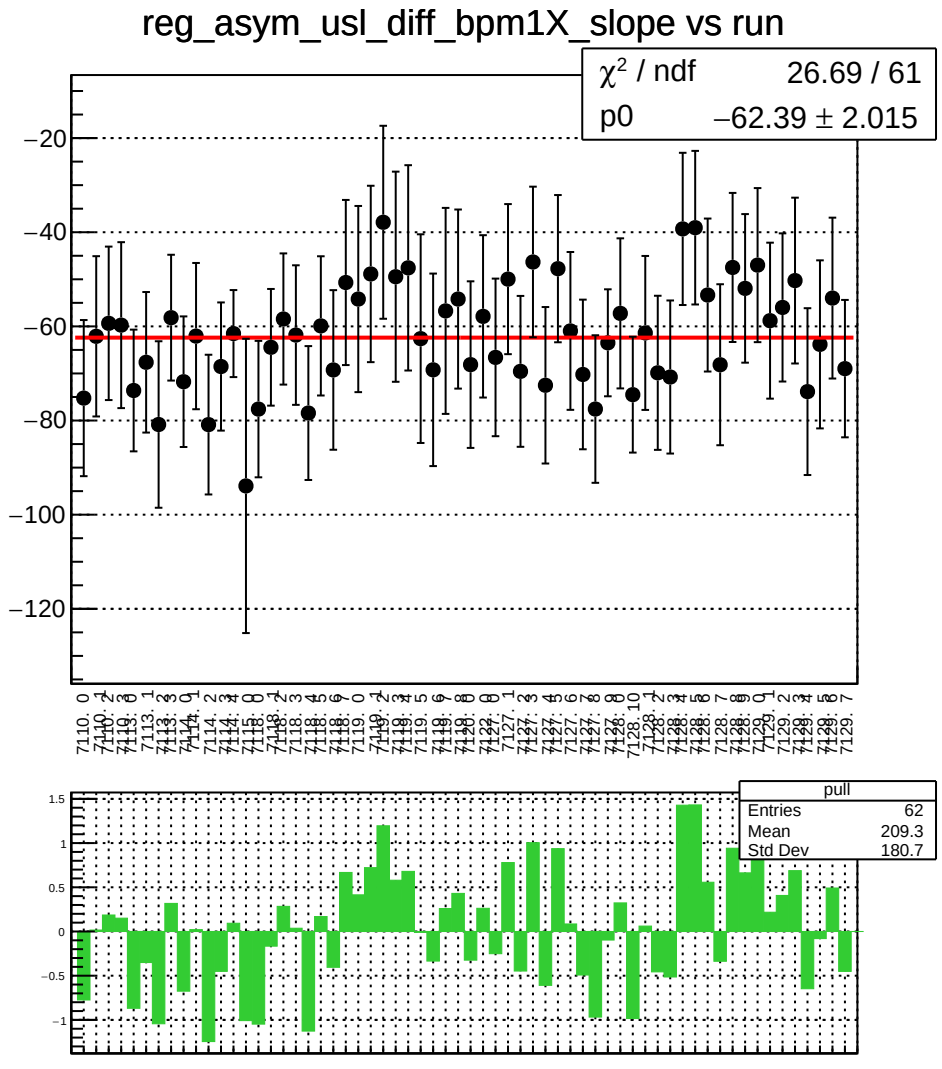

pull1D
Entries 62
Mean −2.659
Std Dev 3.135

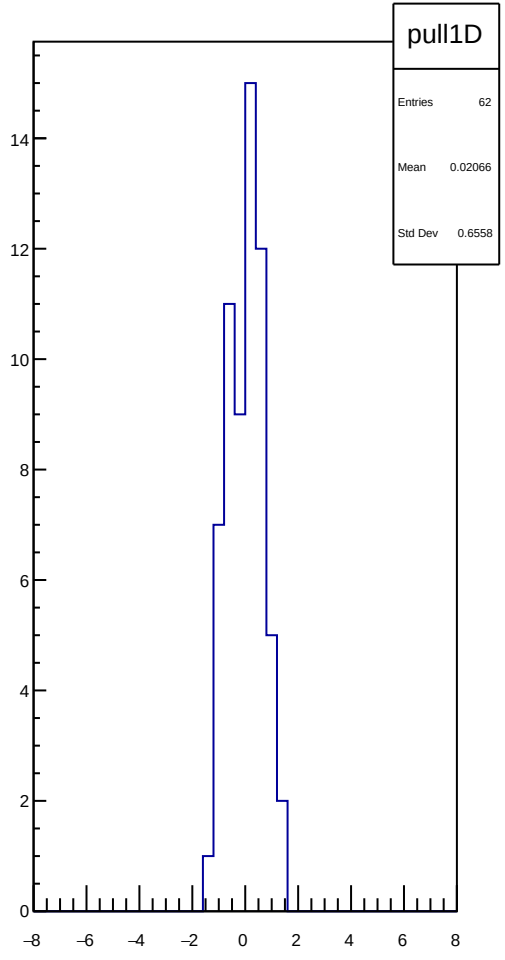

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 804.5 / 61
p0 37.63 ± 0.2588
pull
Entries 62
Mean 470
Std Dev 437.5

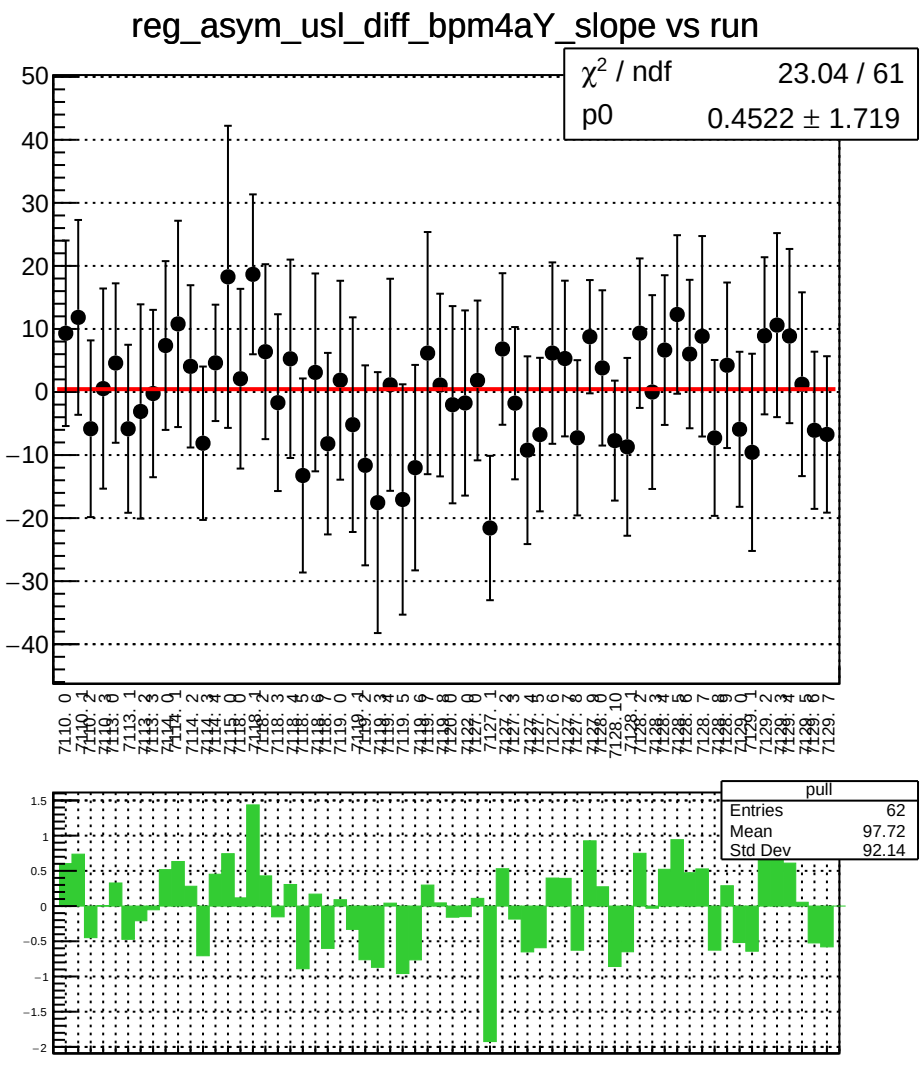

pull1D
Entries 62
Mean 0.3859
Std Dev 3.27

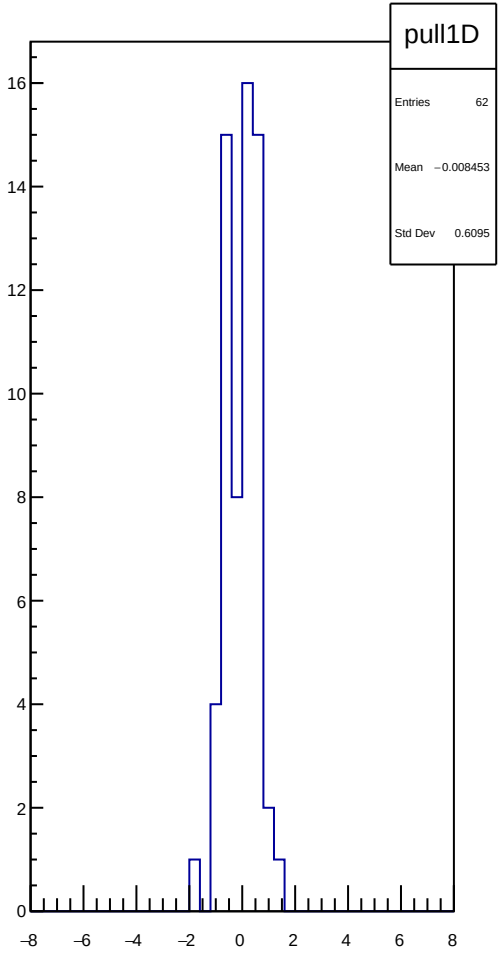

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 236.1 / 61
p0 0.1245 ± 0.0118
pull
Entries 62
Mean −501.9
Std Dev 534.5

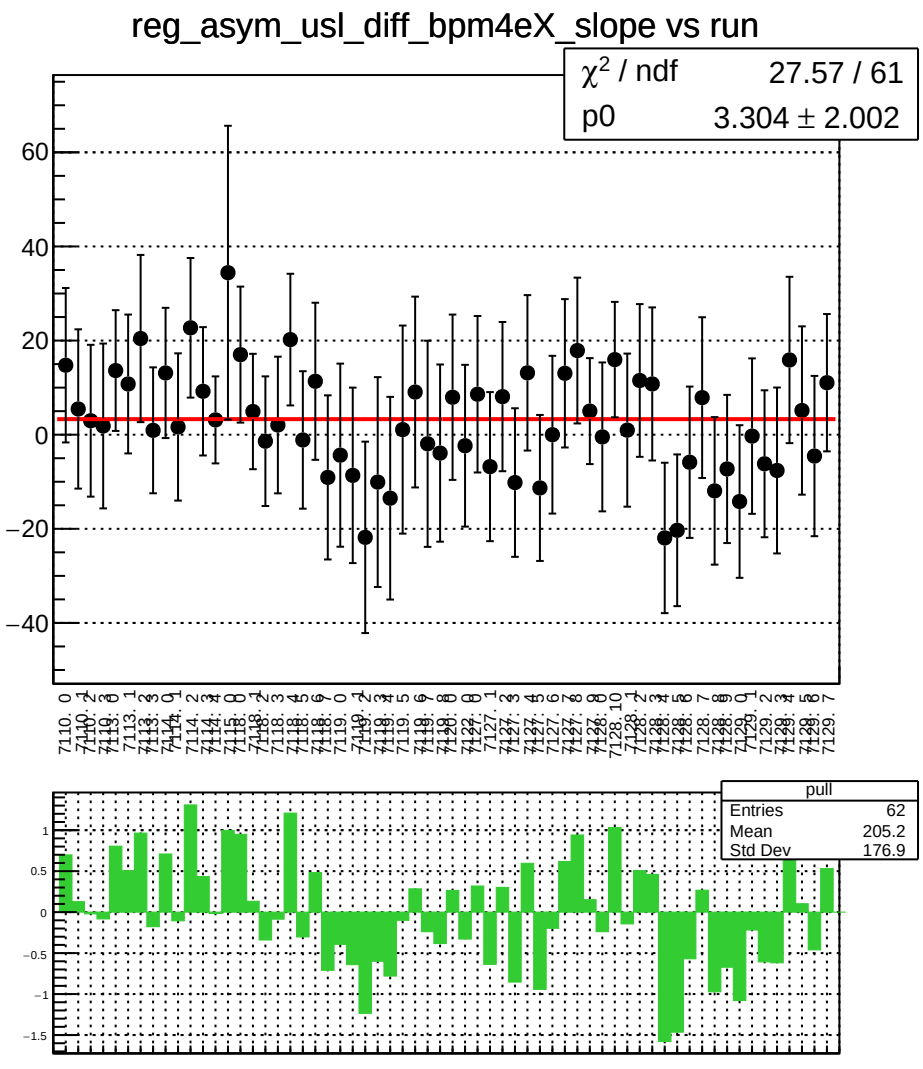

pull1D
Entries 62
Mean −0.04208
Std Dev 1.951

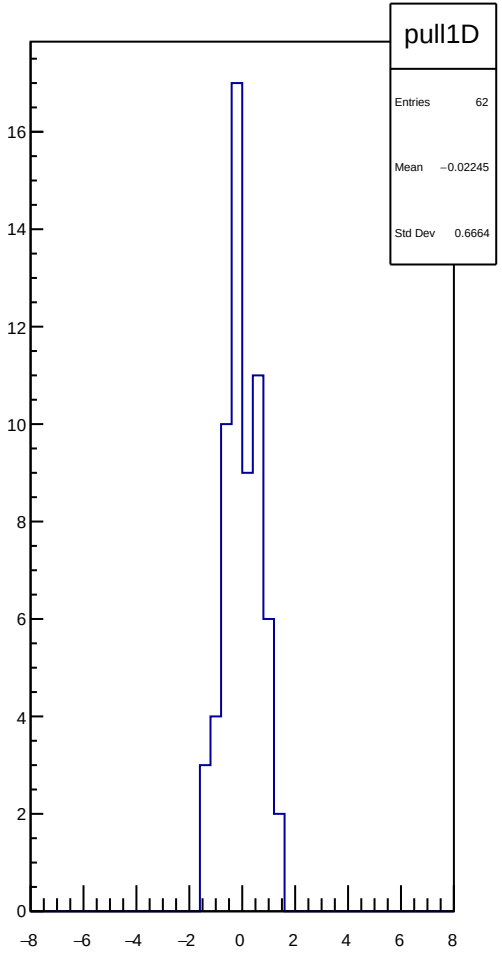

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 26.69 / 61
p0 −62.39 ± 2.015
−20
−40
−60
−80
−100
−120
pull
Entries 62
Mean 209.3
Std Dev 180.7
1.5
1
0.5
0
−0.5
−1

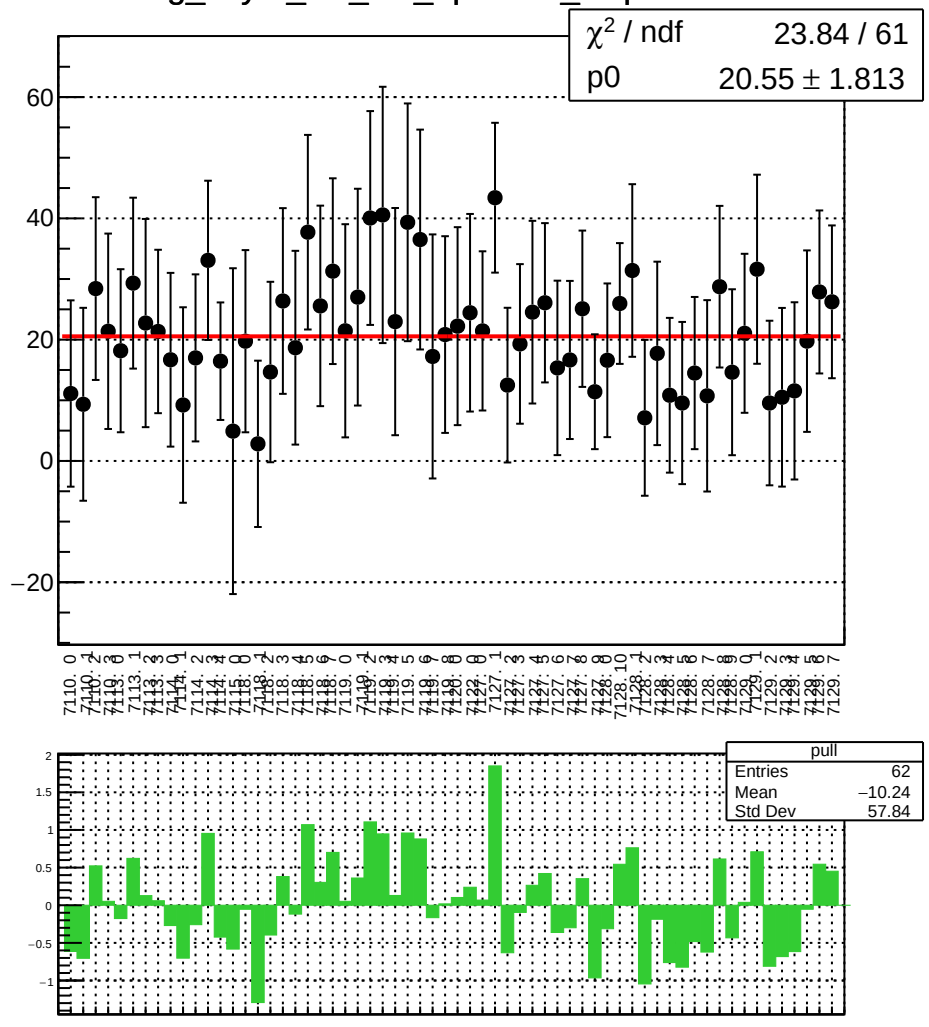

pull1D
Entries 62
Mean 0.02066
Std Dev 0.6558
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

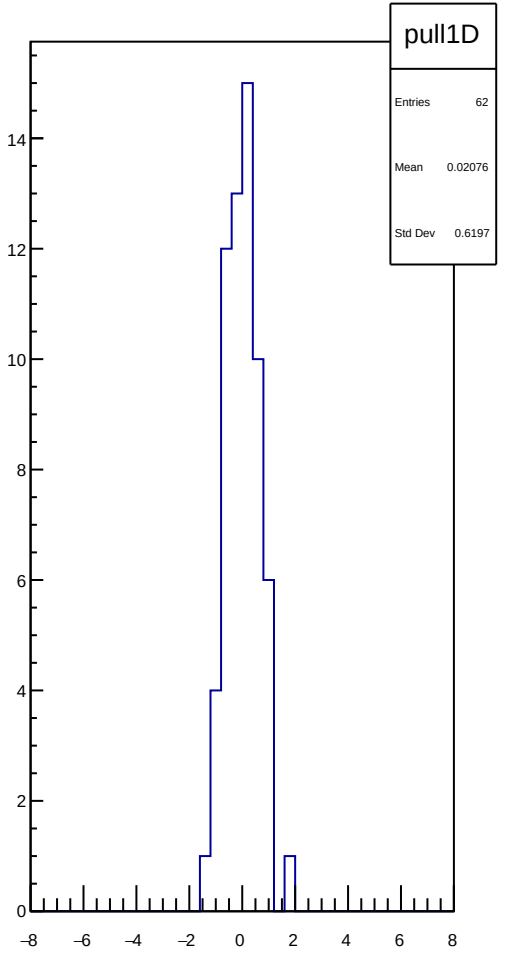

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 23.04 / 61
p0 0.4522 ± 1.719
pull
Entries 62
Mean 97.72
Std Dev 92.14

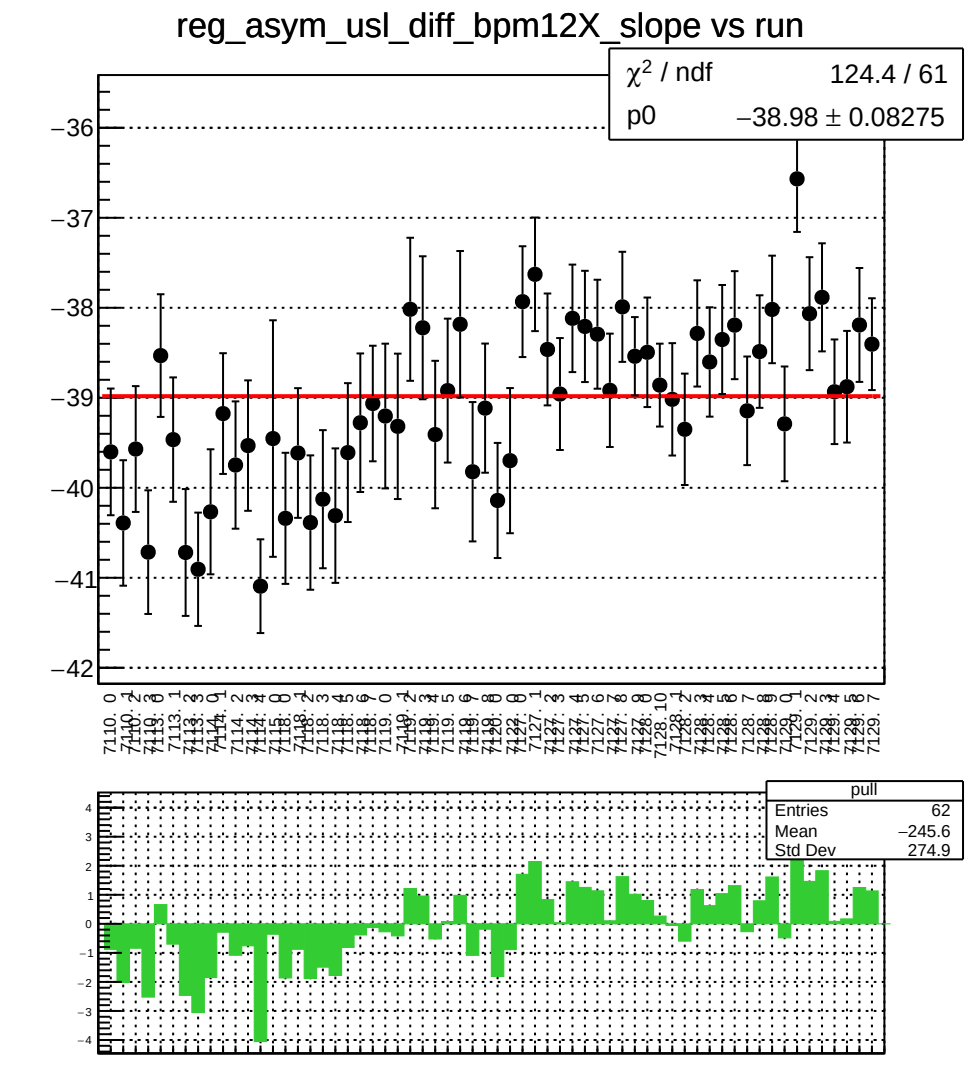

pull1D
Entries 62
Mean −0.008453
Std Dev 0.6095

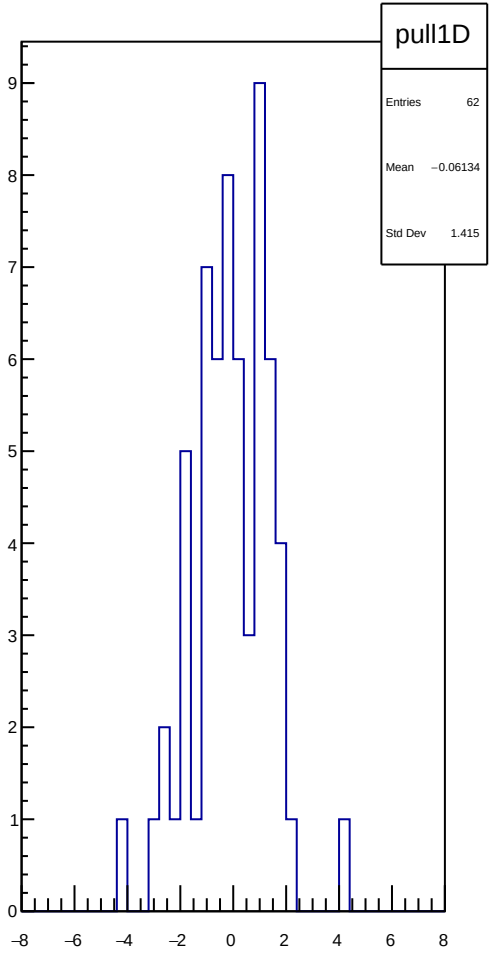

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 27.57 / 61
p0 3.304 ± 2.002
pull
Entries 62
Mean 205.2
Std Dev 176.9

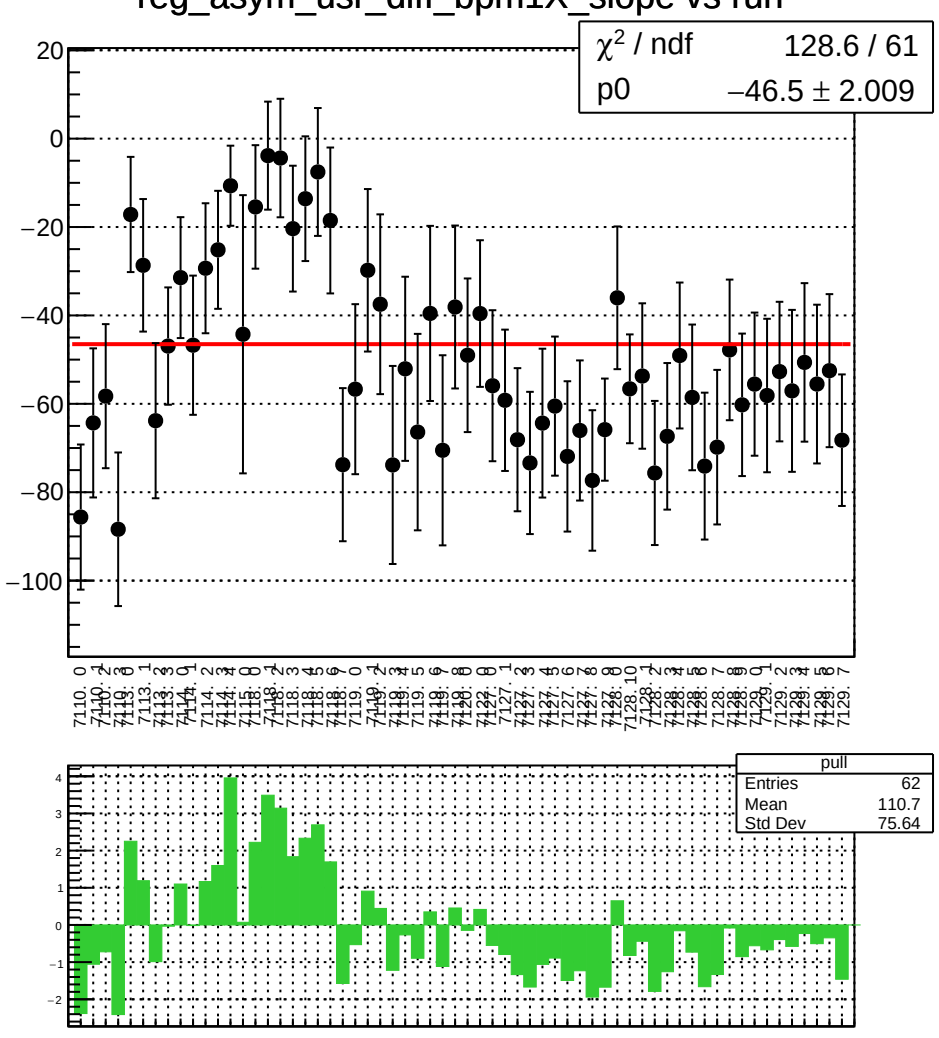

pull1D
Entries 62
Mean −0.02245
Std Dev 0.6664

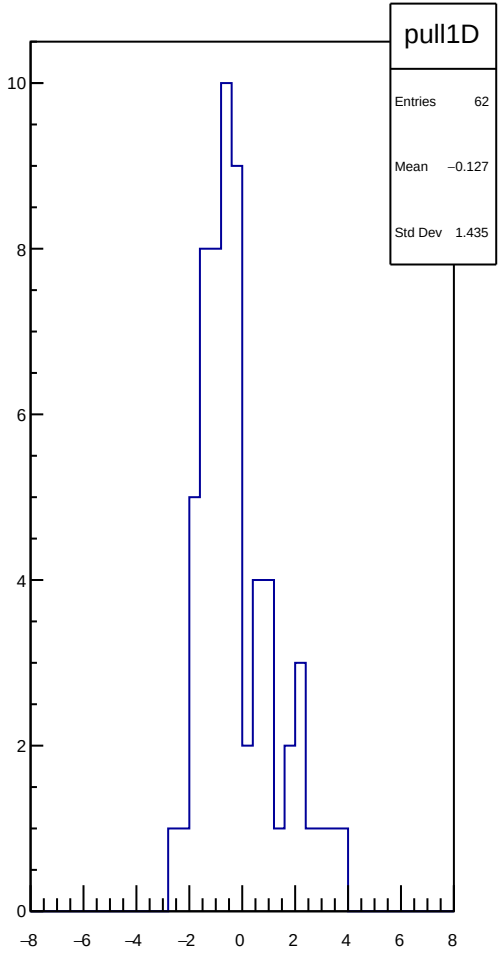

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 23.84 / 61
p0 20.55 ± 1.813
pull
Entries 62
Mean −10.24
Std Dev 57.84

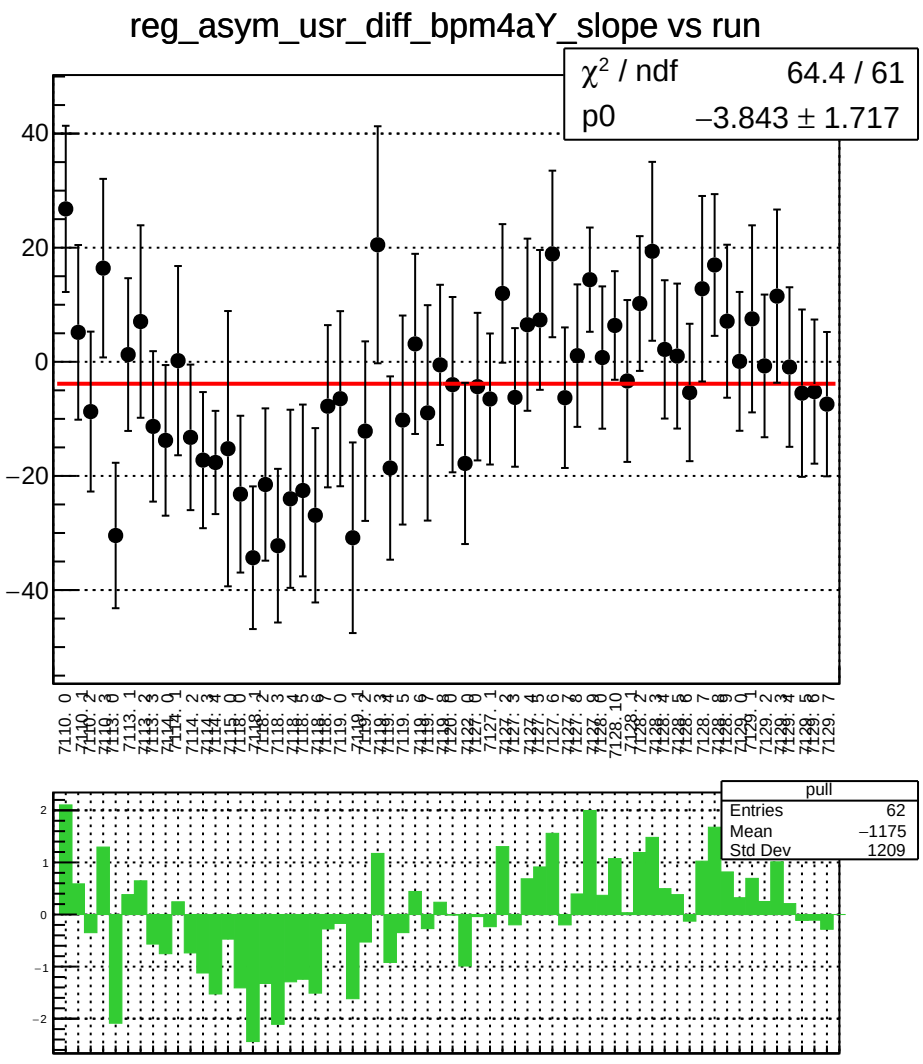

pull1D
Entries 62
Mean 0.02076
Std Dev 0.6197

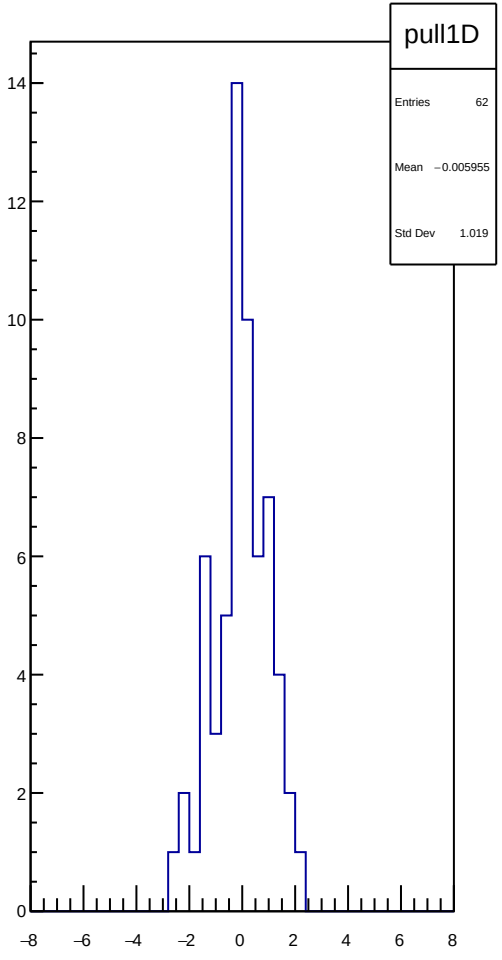

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 124.4 / 61
p0 −38.98 ± 0.08275
pull
Entries 62
Mean −245.6
Std Dev 274.9

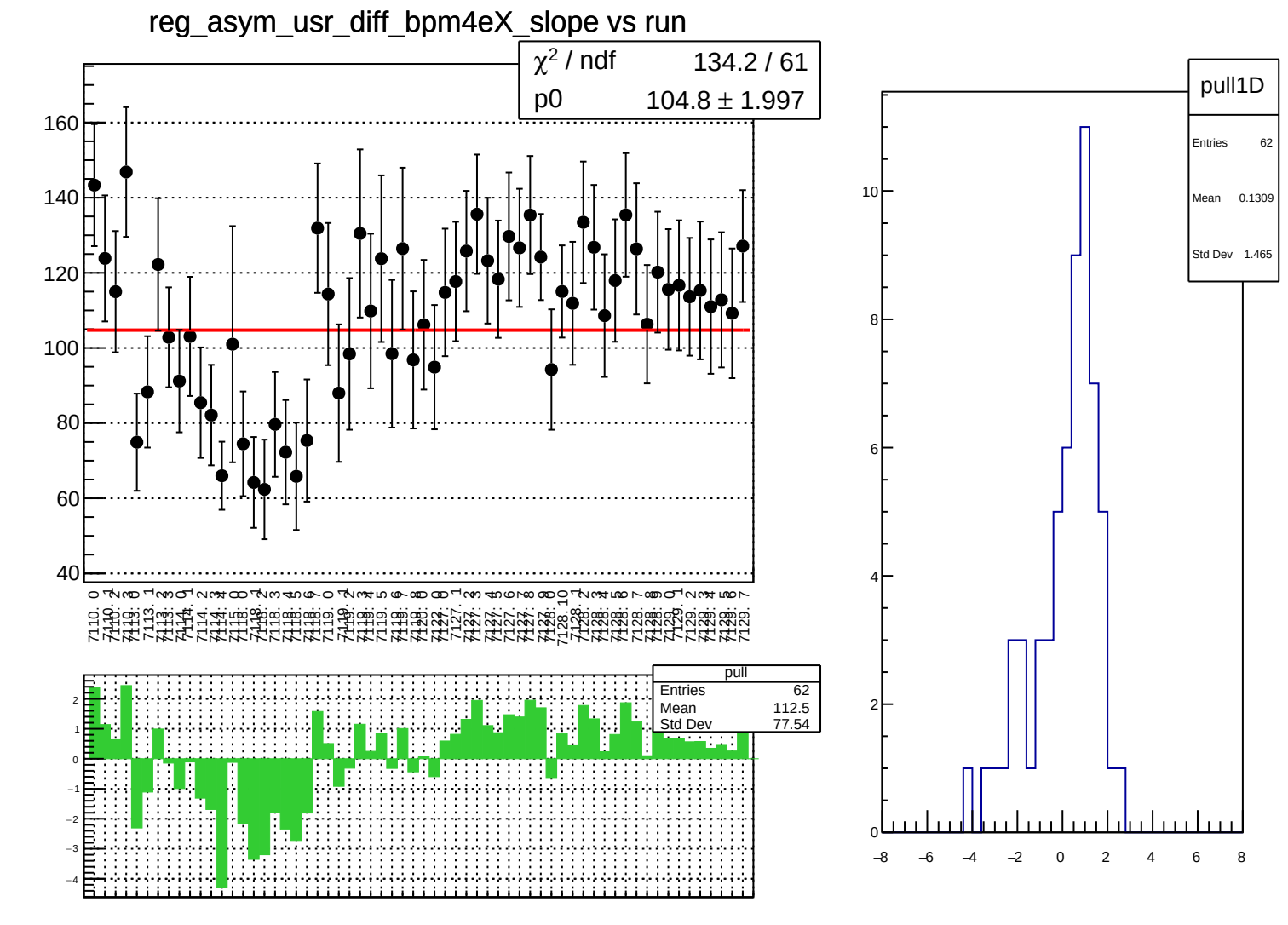

pull1D
Entries 62
Mean −0.06134
Std Dev 1.415

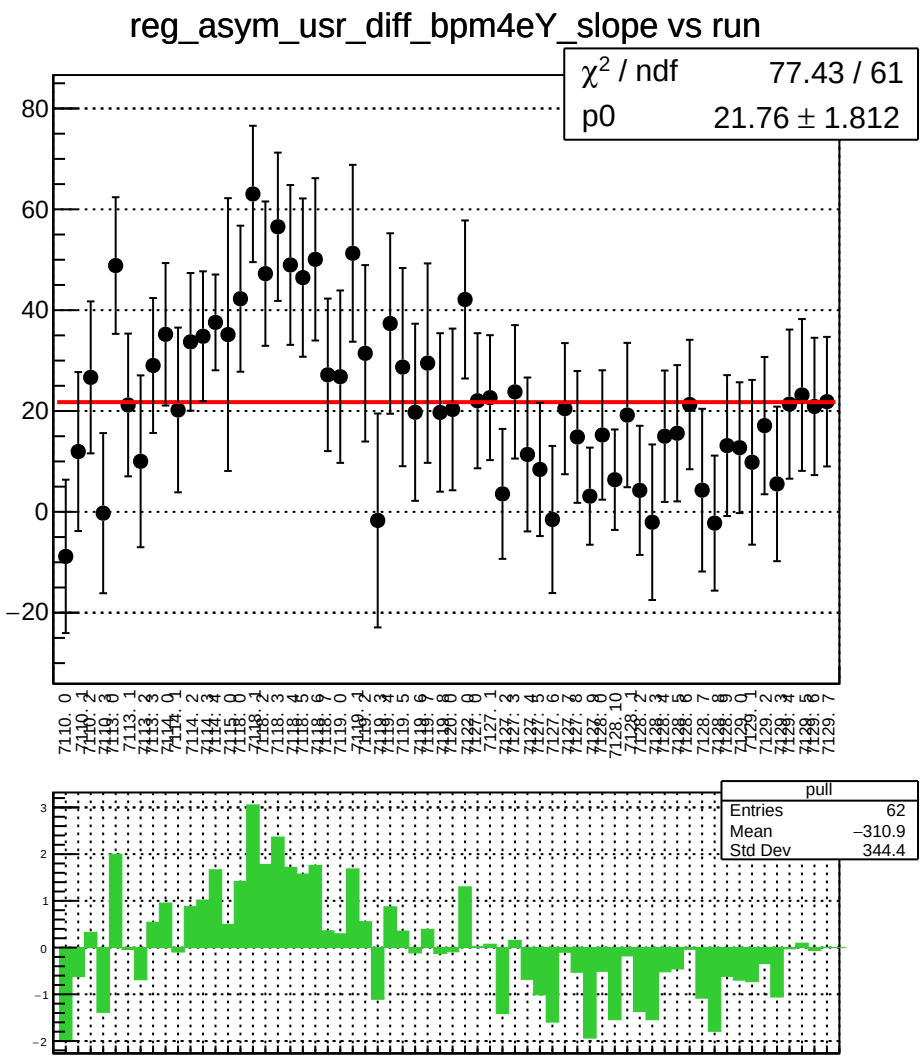

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 128.6 / 61
p0 −46.5 ± 2.009
pull
Entries 62
Mean 110.7
Std Dev 75.64

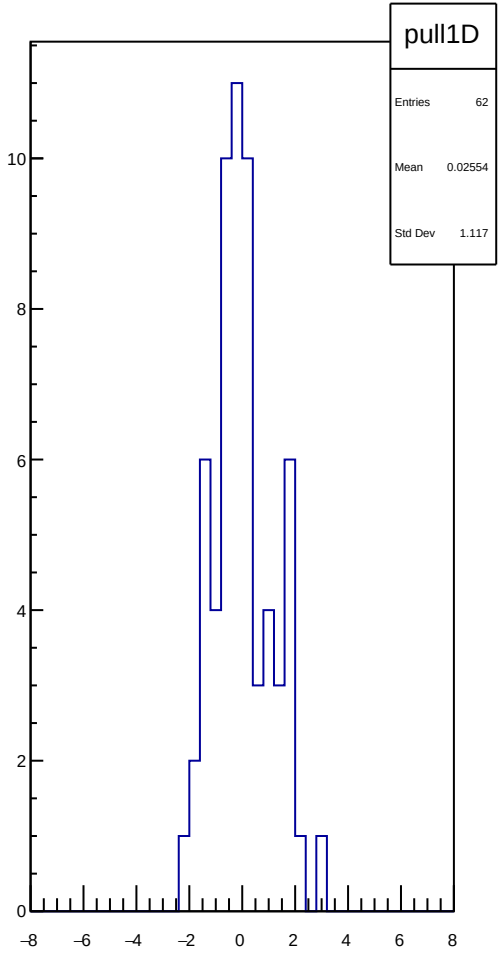

pull1D
Entries 62
Mean −0.127
Std Dev 1.435

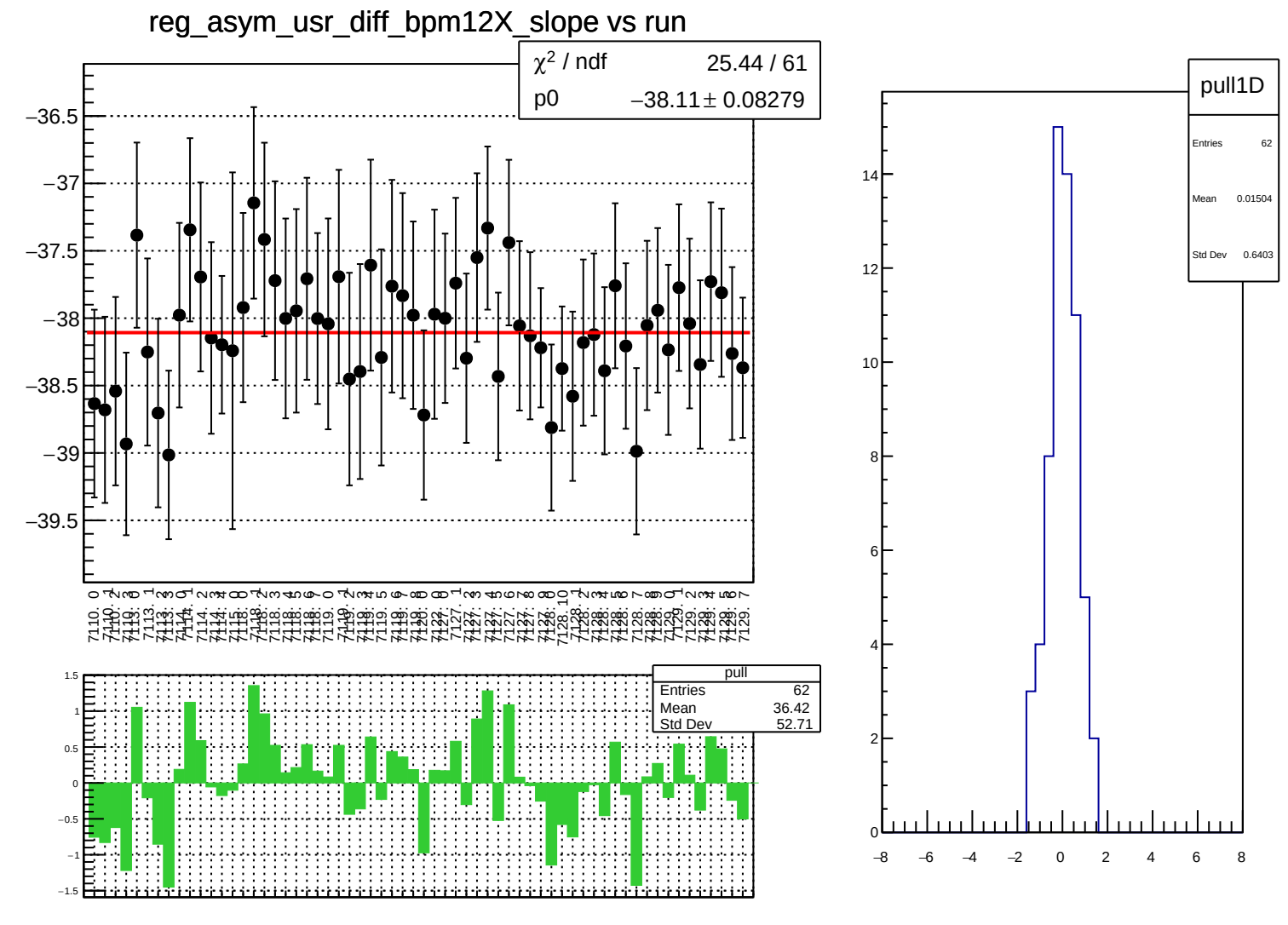

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 64.4 / 61
p0 −3.843 ± 1.717
pull
Entries 62
Mean −1175
Std Dev 1209

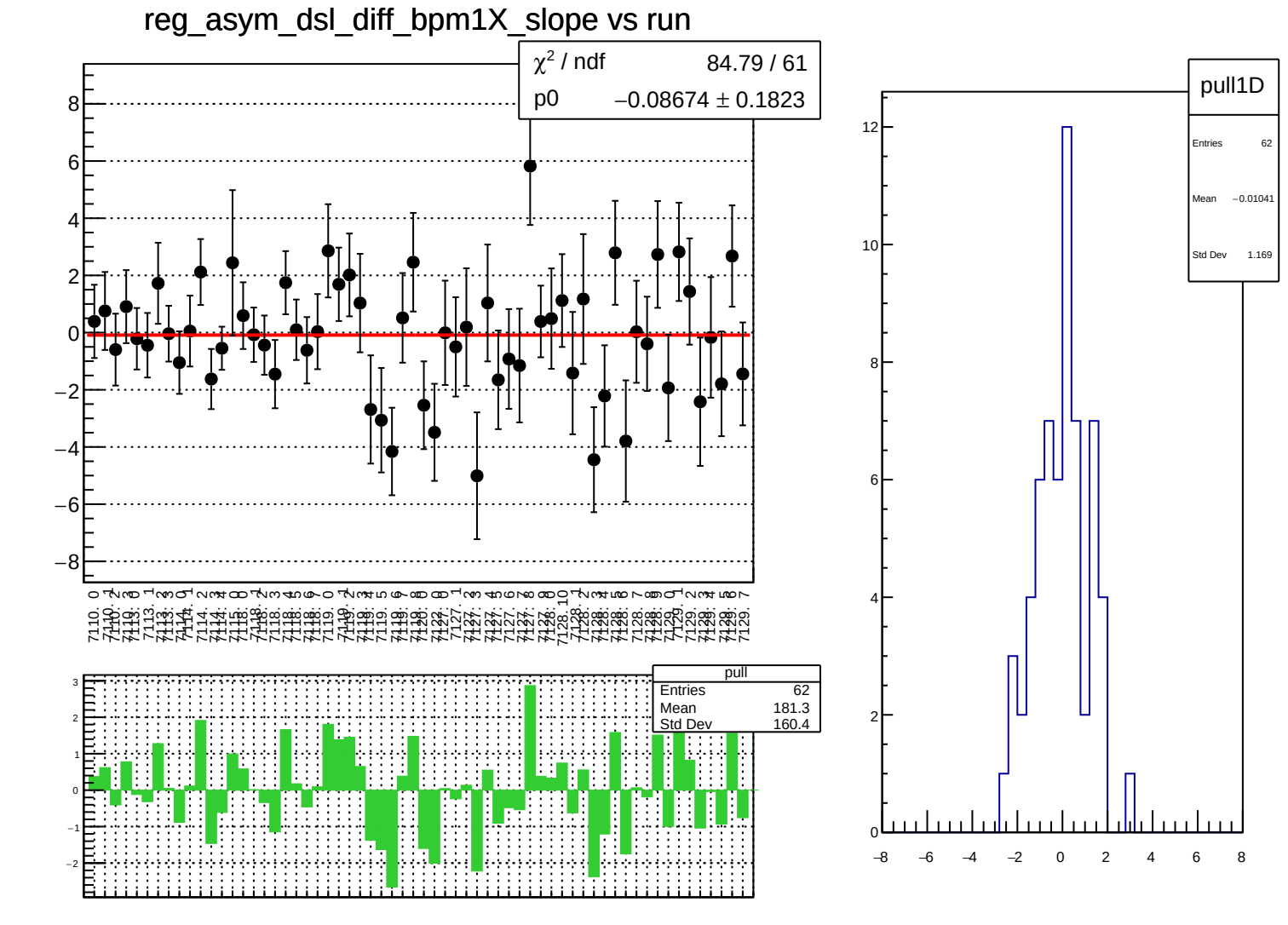

pull1D
Entries 62
Mean −0.005955
Std Dev 1.019

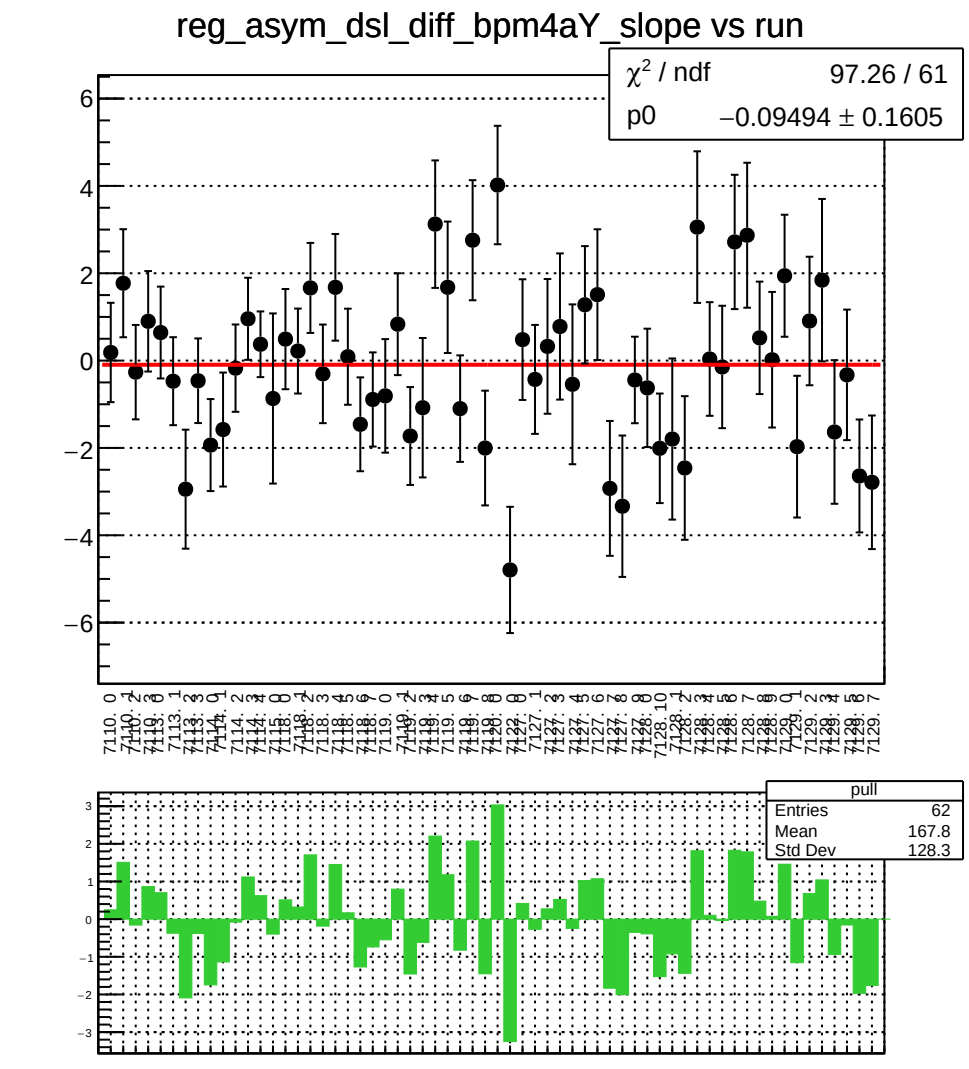

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 134.2 / 61
p0 104.8 ± 1.997
pull
Entries 62
Mean 112.5
Std Dev 77.54
pull1D
Entries 62
Mean 0.1309
Std Dev 1.465

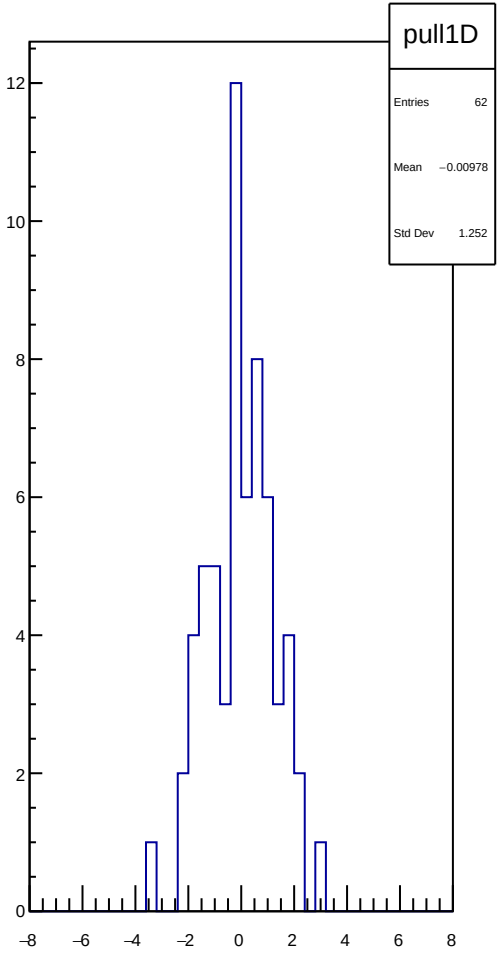

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 77.43 / 61
p0 21.76 ± 1.812
pull
Entries 62
Mean −310.9
Std Dev 344.4

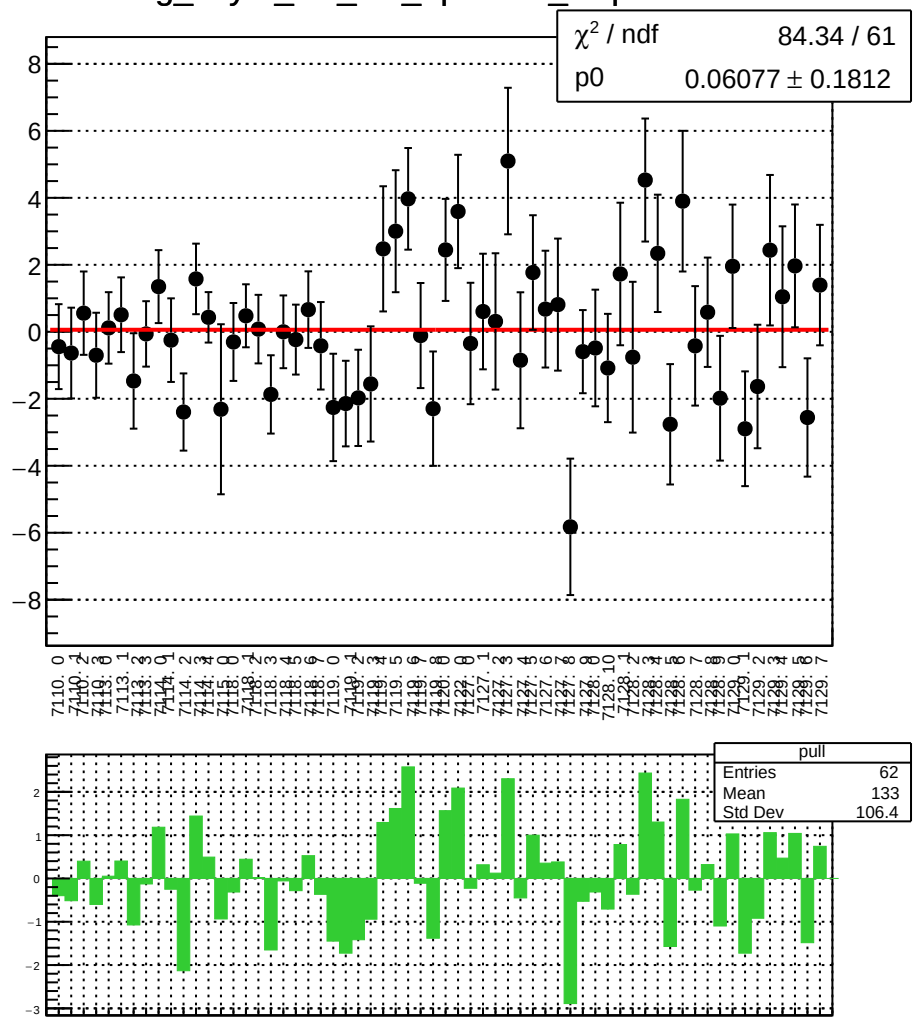

pull1D
Entries 62
Mean 0.02554
Std Dev 1.117

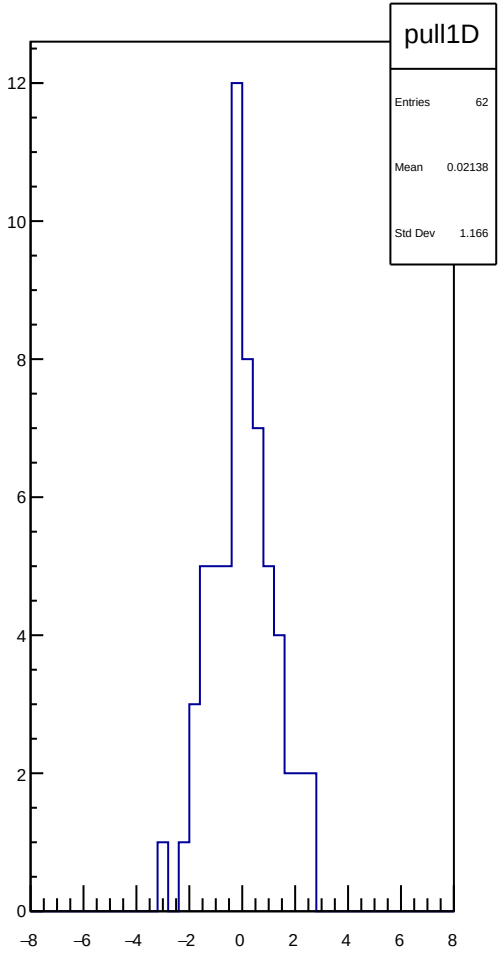

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 25.44 / 61
p0 −38.11 ± 0.08279
pull
Entries 62
Mean 36.42
Std Dev 52.71
pull1D
Entries 62
Mean 0.01504
Std Dev 0.6403

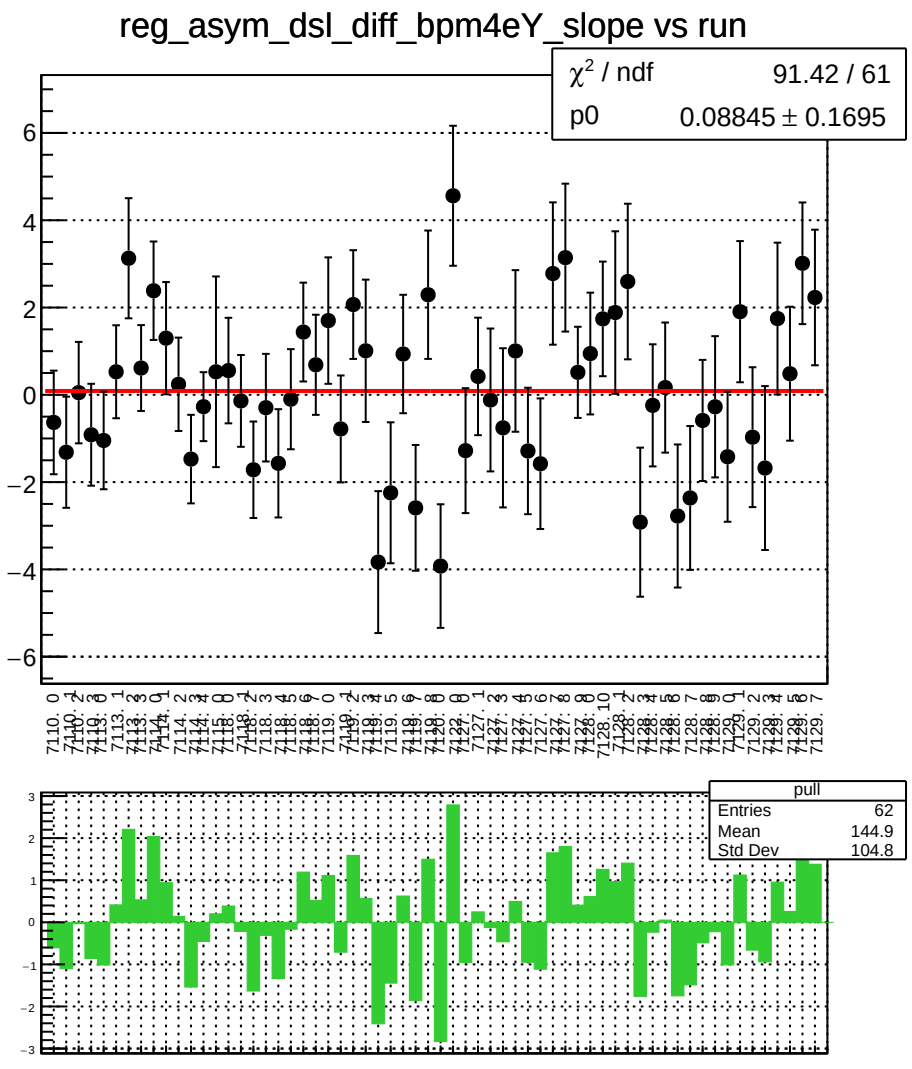

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 84.79 / 61
p0 −0.08674 ± 0.1823
pull
Entries 62
Mean 181.3
Std Dev 160.4
pull1D
Entries 62
Mean −0.01041
Std Dev 1.169

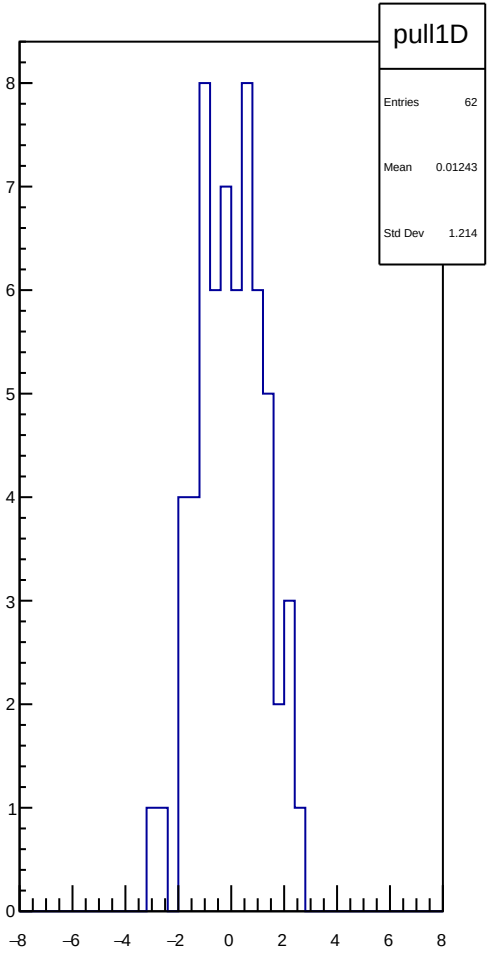

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 97.26 / 61
p0 −0.09494 ± 0.1605
pull
Entries 62
Mean 167.8
Std Dev 128.3

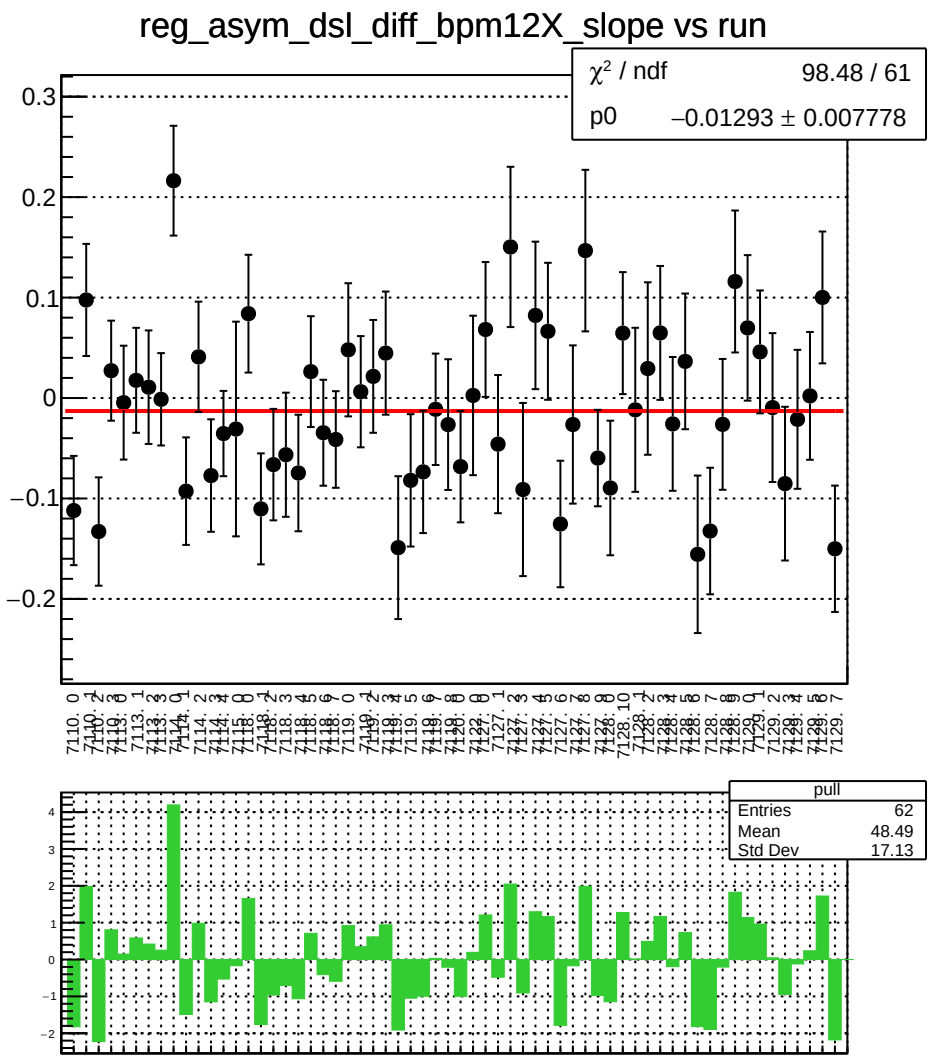

pull1D
Entries 62
Mean −0.00978
Std Dev 1.252

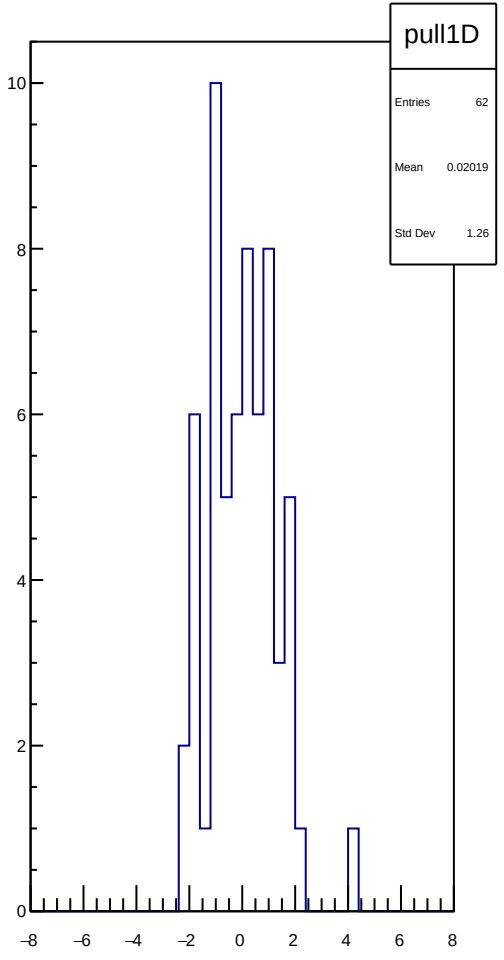

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 84.34 / 61
p0 0.06077 ± 0.1812
pull
Entries 62
Mean 133
Std Dev 106.4

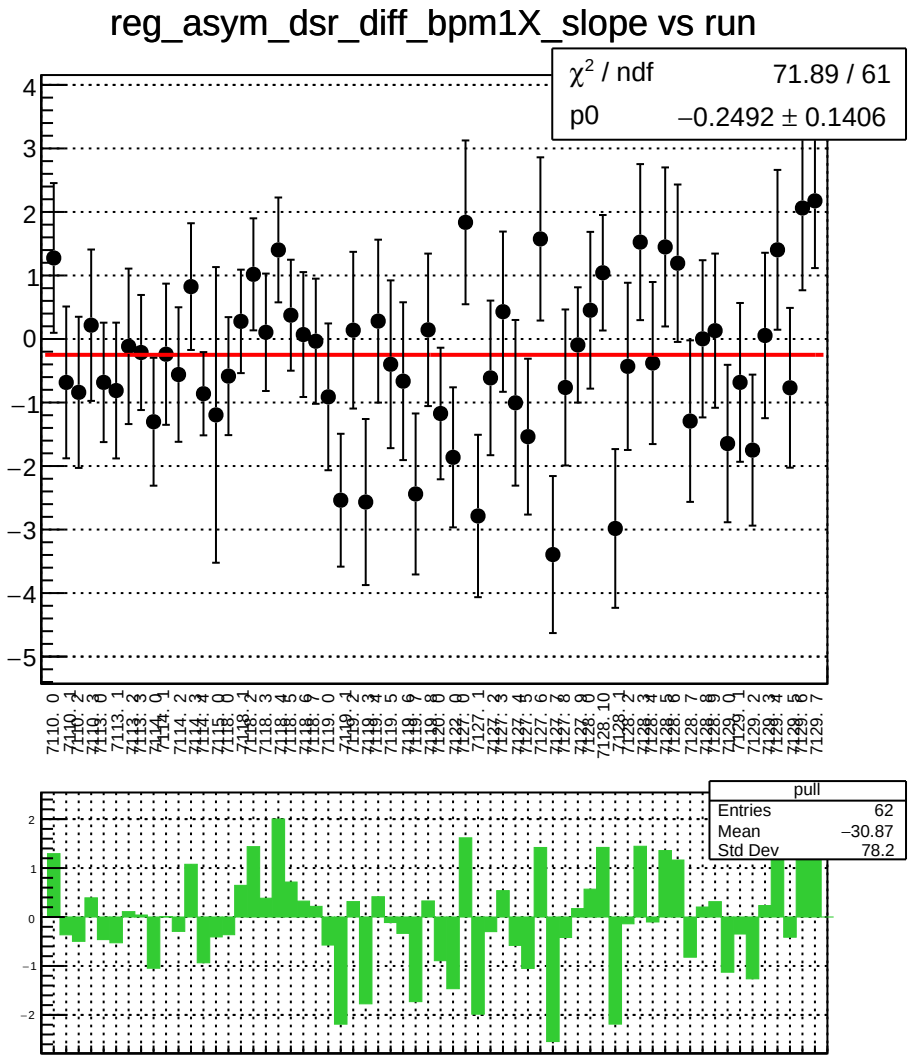

pull1D
Entries 62
Mean 0.02138
Std Dev 1.166

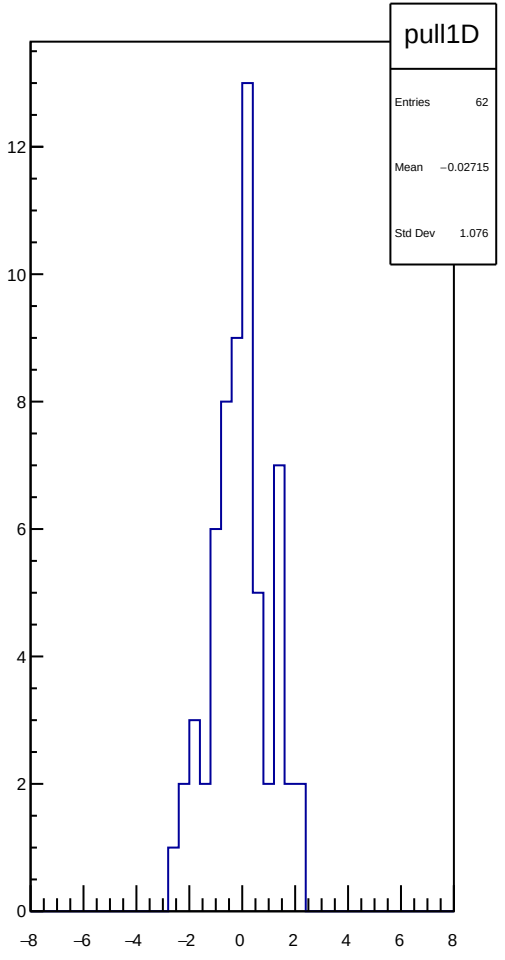

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 91.42 / 61
p0 0.08845 ± 0.1695
pull
Entries 62
Mean 144.9
Std Dev 104.8

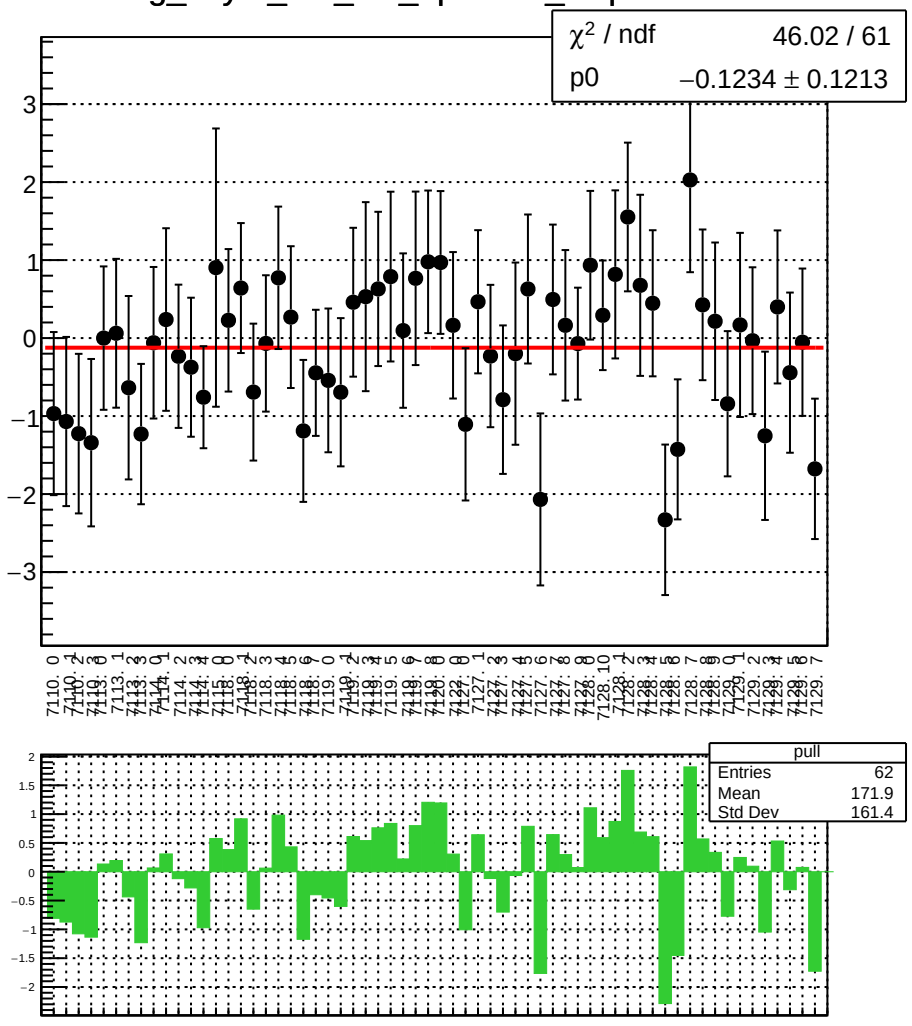

pull1D
Entries 62
Mean 0.01243
Std Dev 1.214

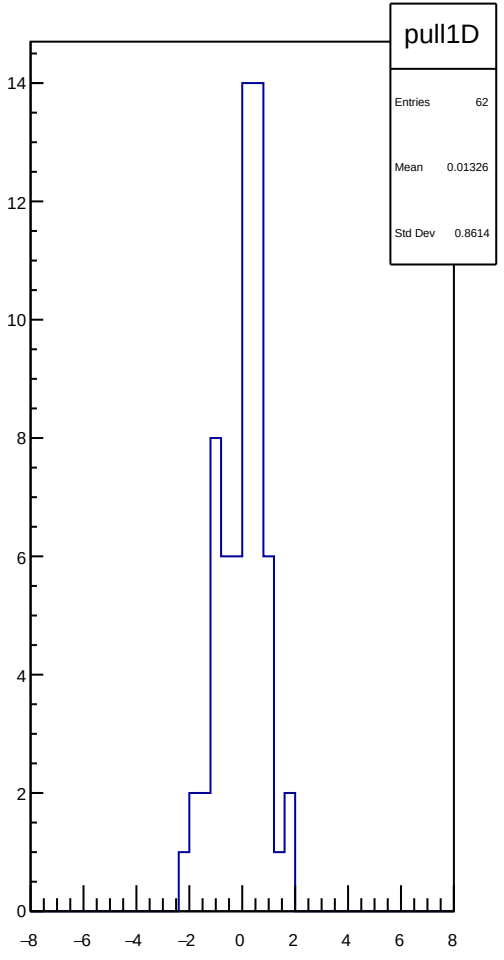

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 98.48 / 61
p0 −0.01293 ± 0.007778
pull
Entries 62
Mean 48.49
Std Dev 17.13

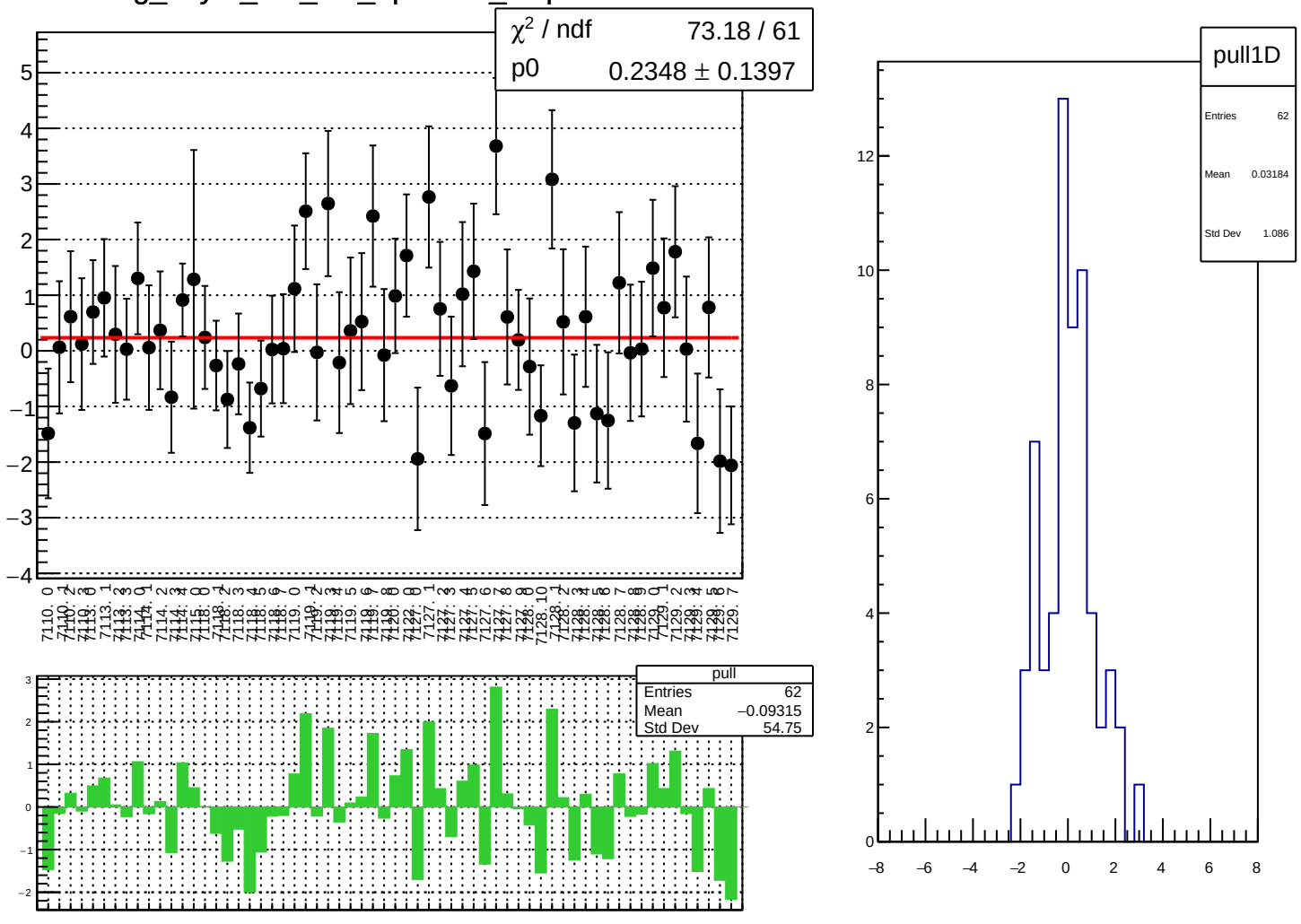

pull1D
Entries 62
Mean 0.02019
Std Dev 1.26

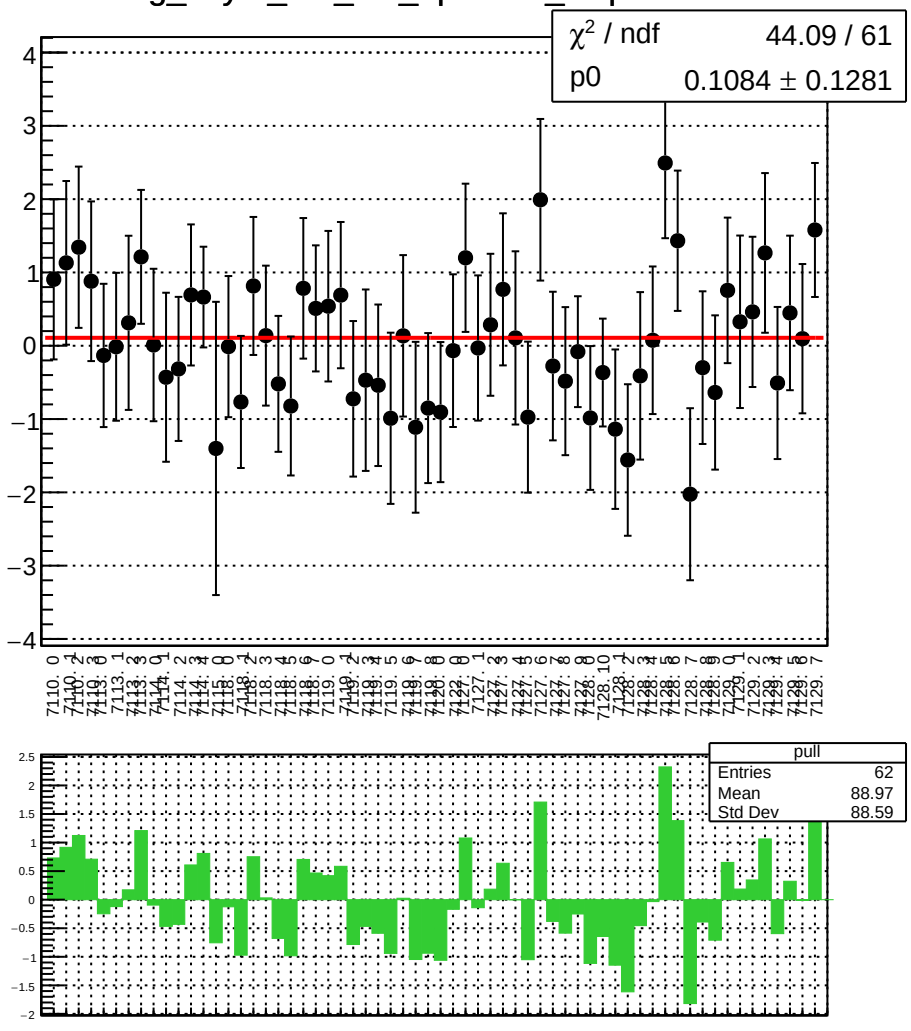

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 71.89 / 61
p0 −0.2492 ± 0.1406
pull
Entries 62
Mean −30.87
Std Dev 78.2

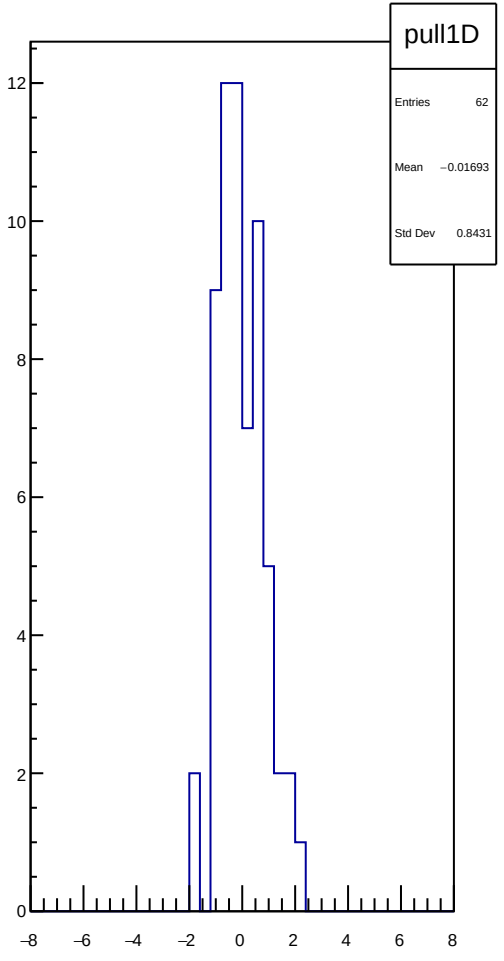

pull1D
Entries 62
Mean −0.02715
Std Dev 1.076

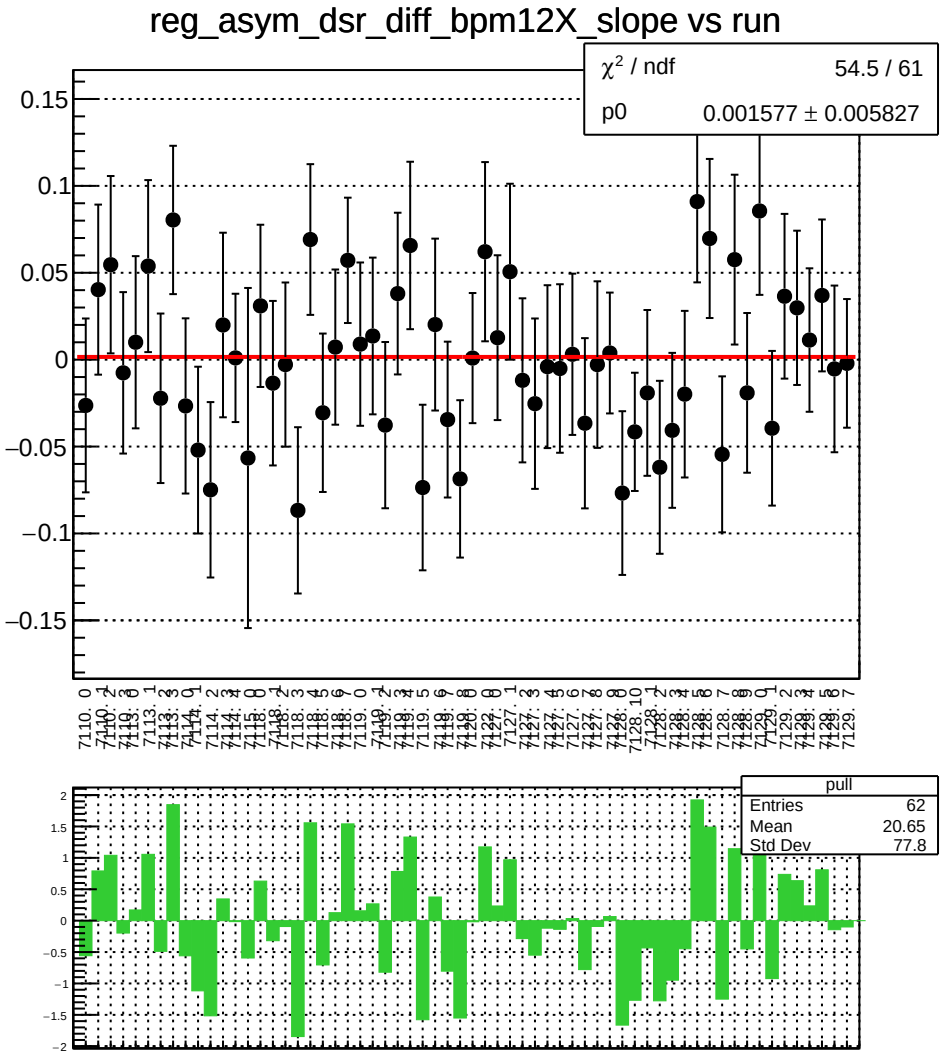

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 46.02 / 61
p0 −0.1234 ± 0.1213
pull
Entries 62
Mean 171.9
Std Dev 161.4

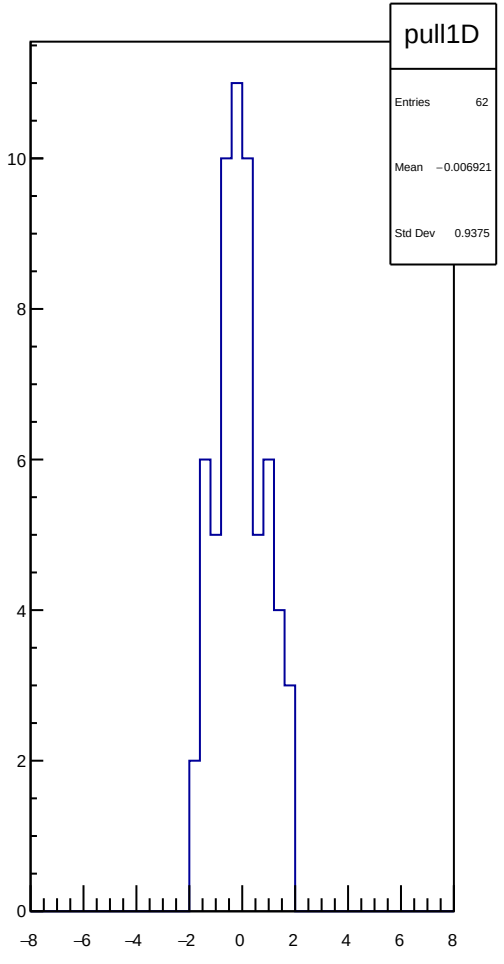

pull1D
Entries 62
Mean 0.01326
Std Dev 0.8614

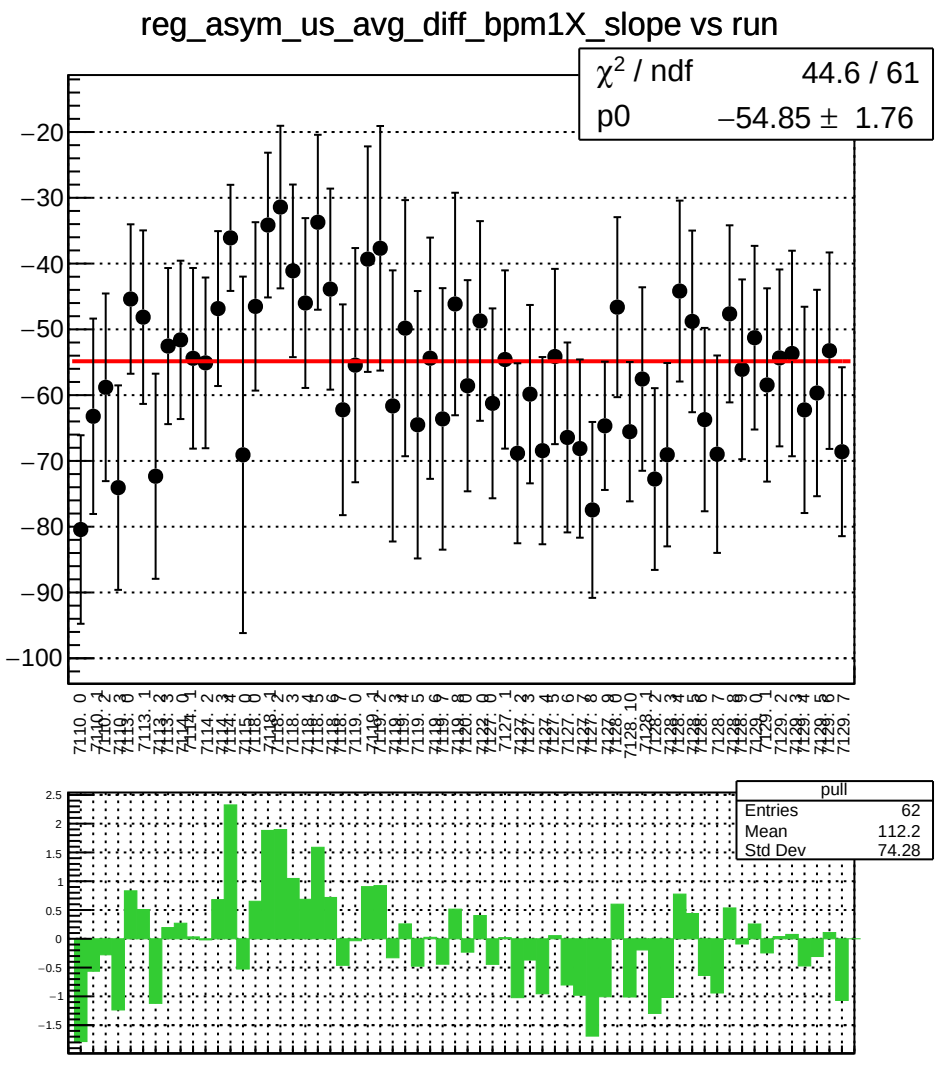

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 73.18 / 61
p0 0.2348 ± 0.1397
pull
Entries 62
Mean −0.09315
Std Dev 54.75
pull1D
Entries 62
Mean 0.03184
Std Dev 1.086

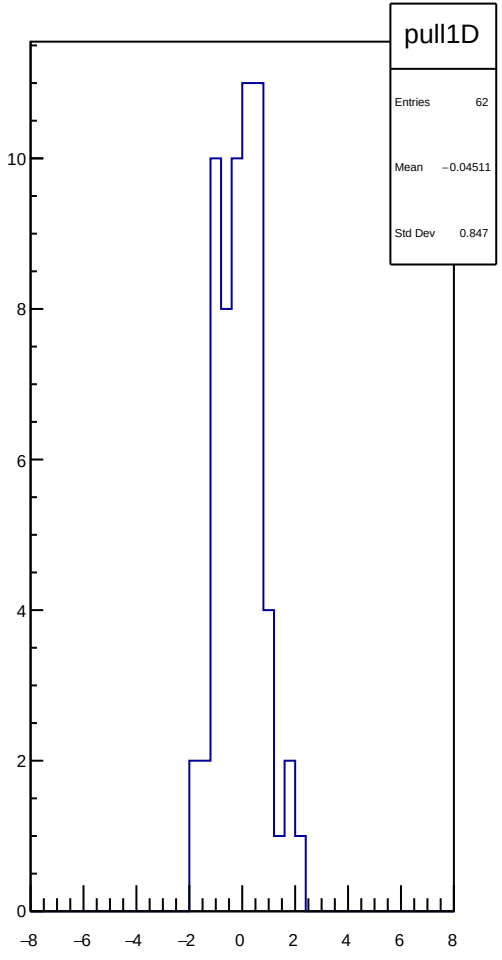

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 44.09 / 61
p0 0.1084 ± 0.1281
pull
Entries 62
Mean 88.97
Std Dev 88.59

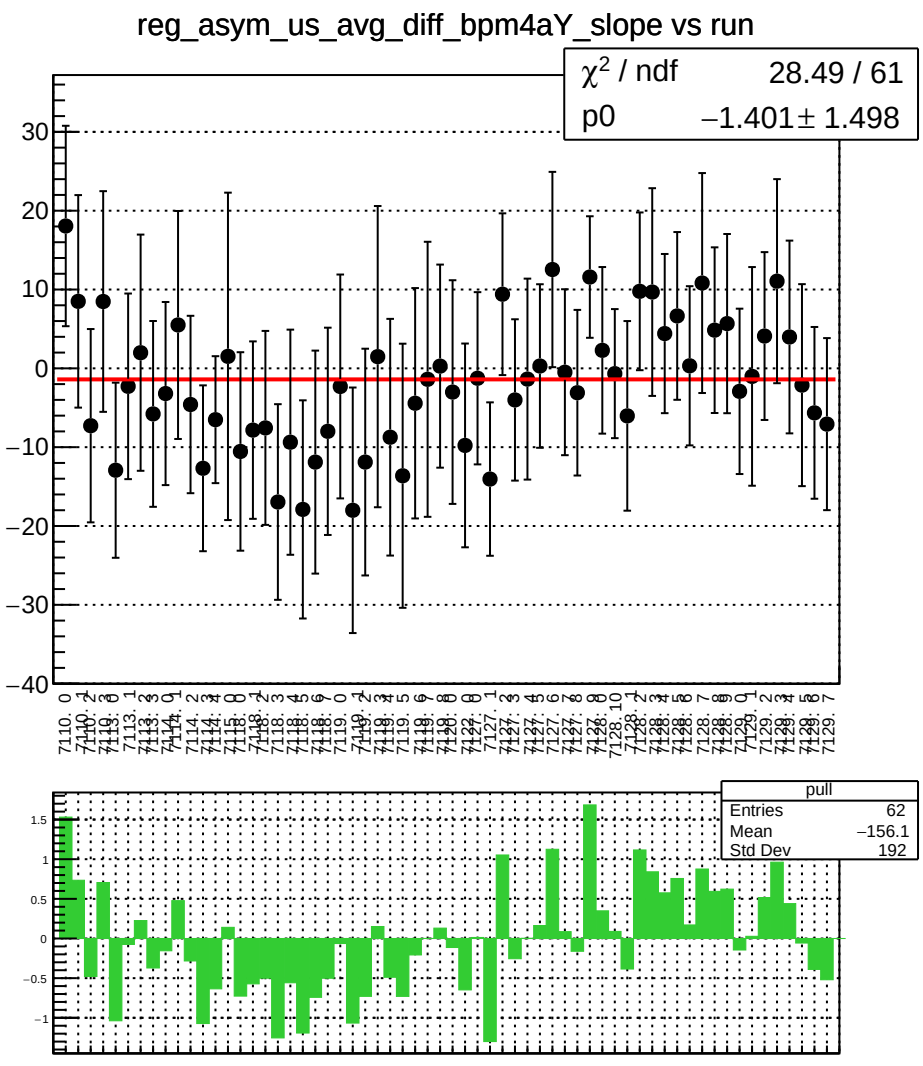

pull1D
Entries 62
Mean −0.01693
Std Dev 0.8431

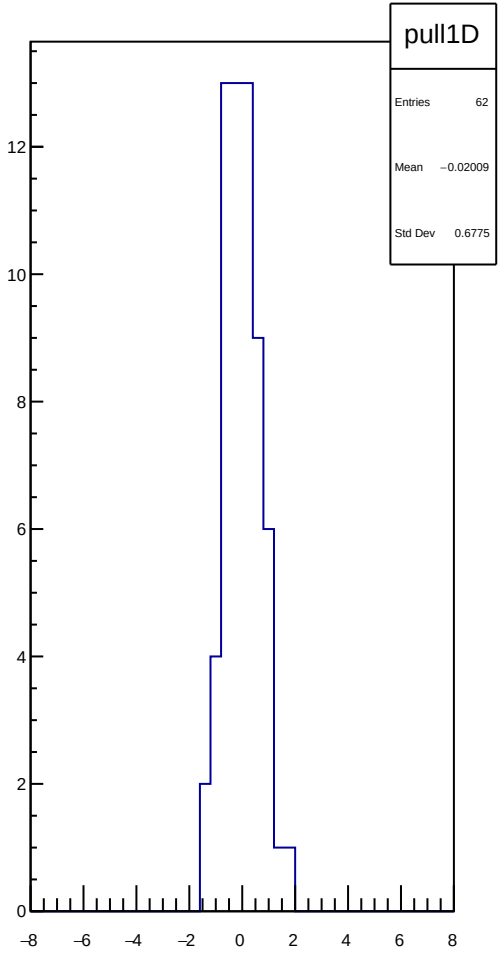

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 54.5 / 61
p0 0.001577 ± 0.005827
pull
Entries 62
Mean 20.65
Std Dev 77.8

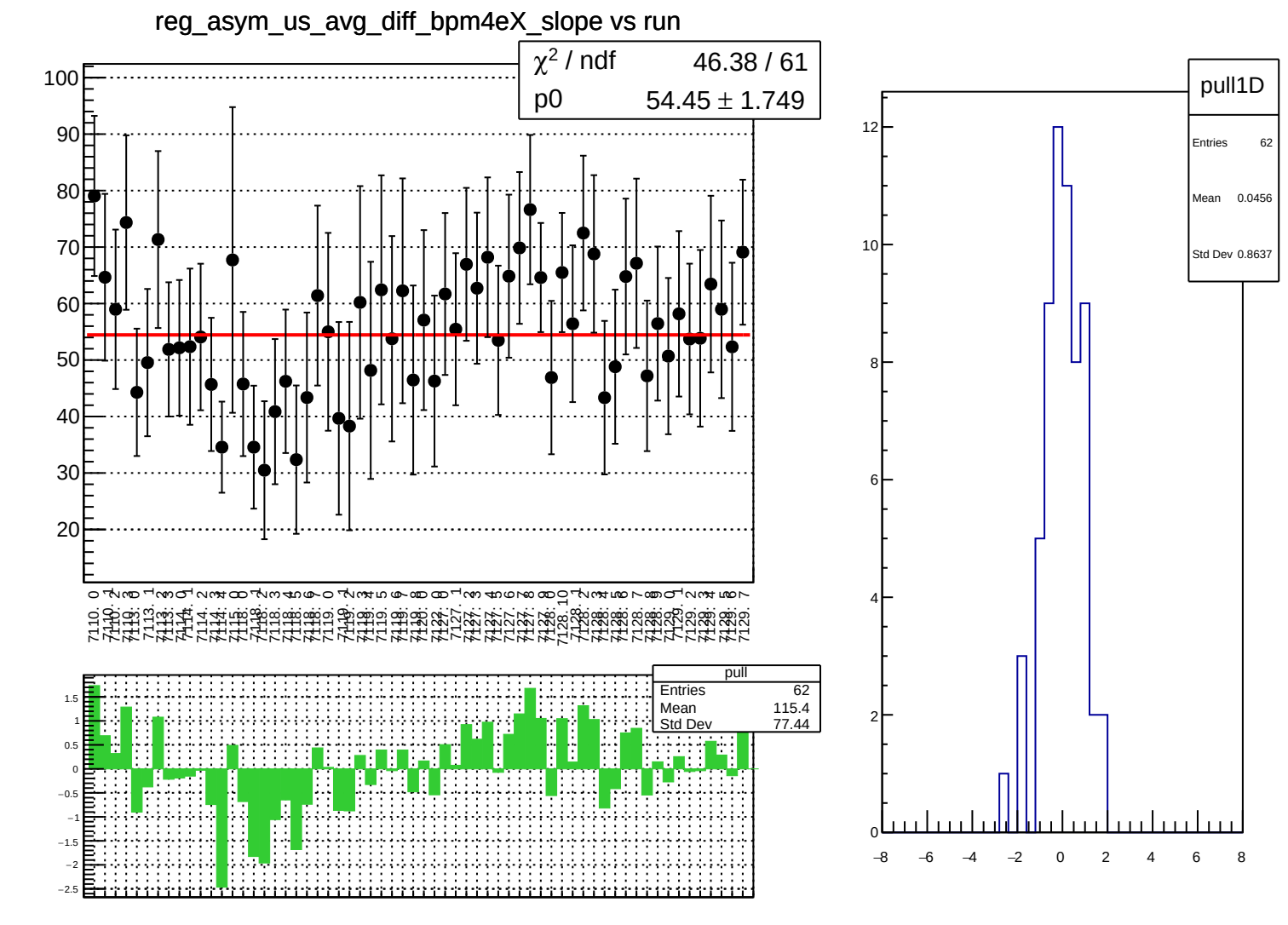

pull1D
Entries 62
Mean −0.006921
Std Dev 0.9375

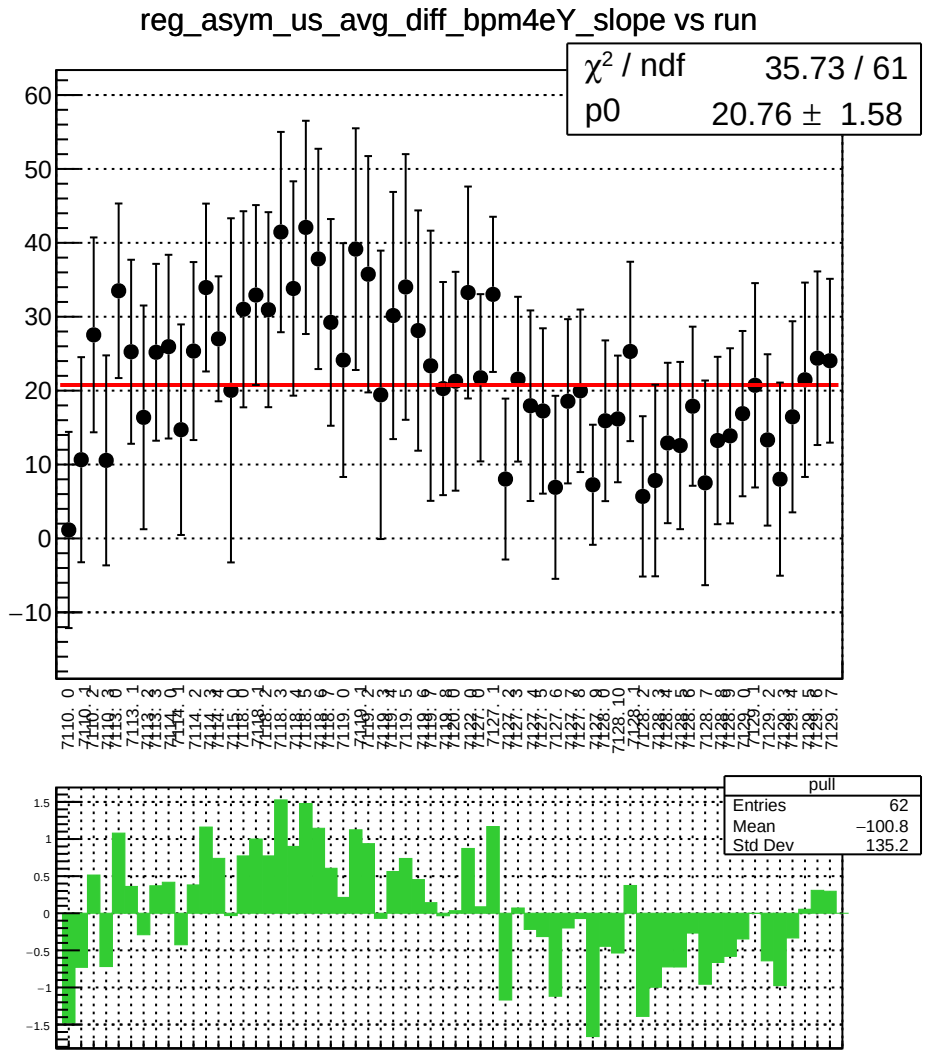

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 44.6 / 61
p0 −54.85 ± 1.76
pull
Entries 62
Mean 112.2
Std Dev 74.28

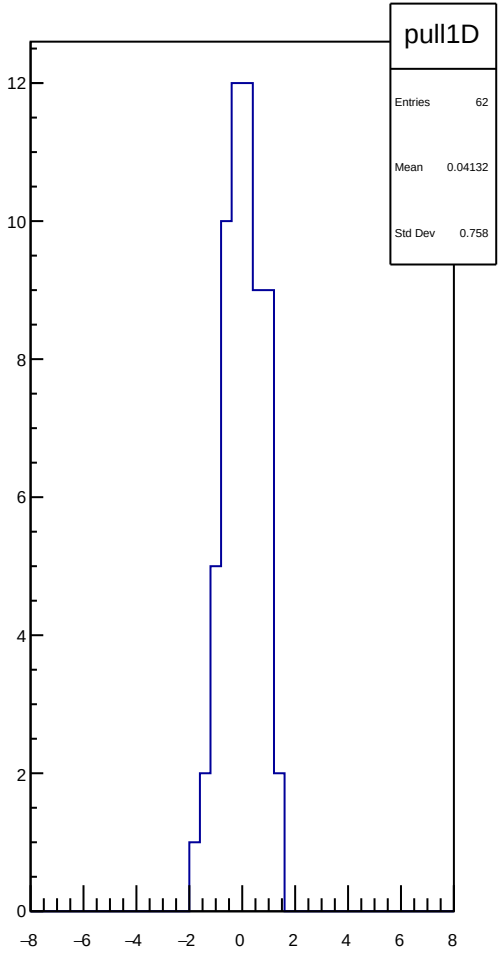

pull1D
Entries 62
Mean −0.04511
Std Dev 0.847

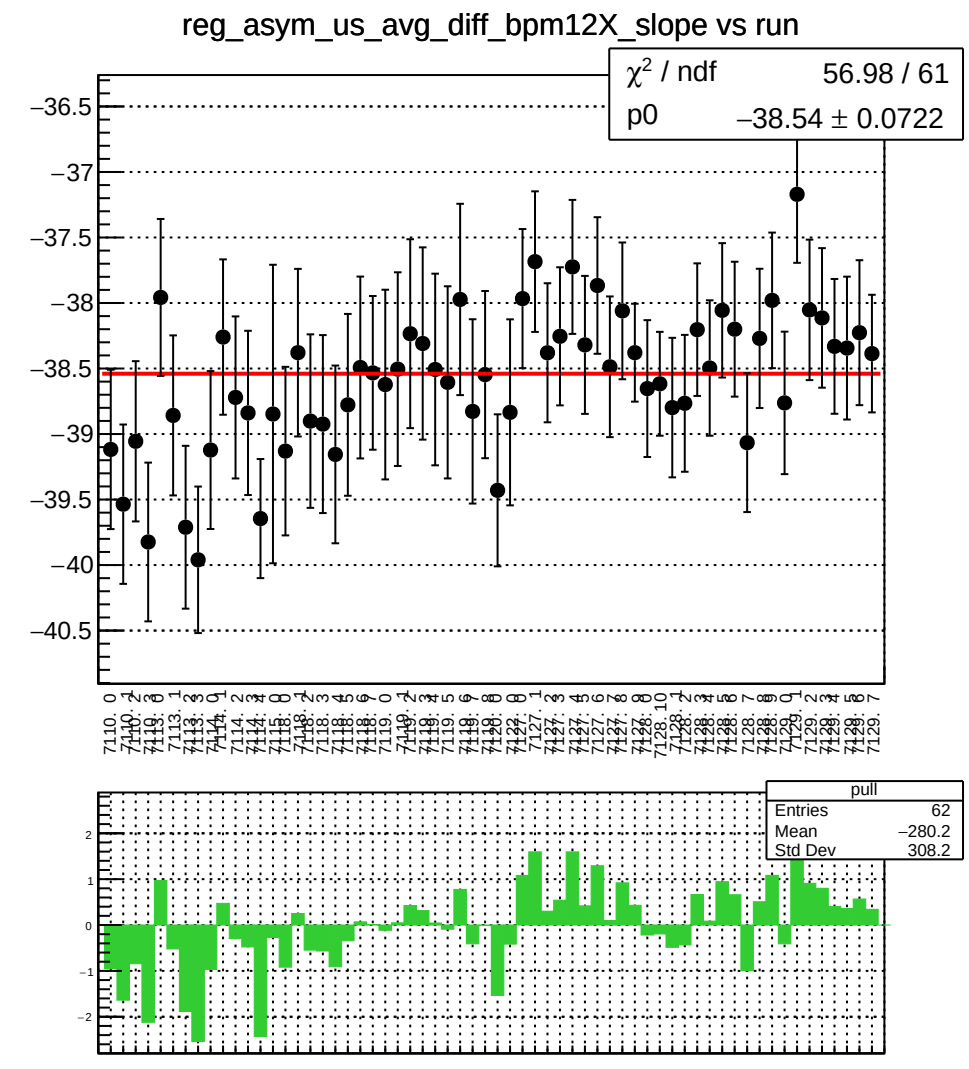

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.49 / 61
p0 −1.401 ± 1.498
pull
Entries 62
Mean −156.1
Std Dev 192

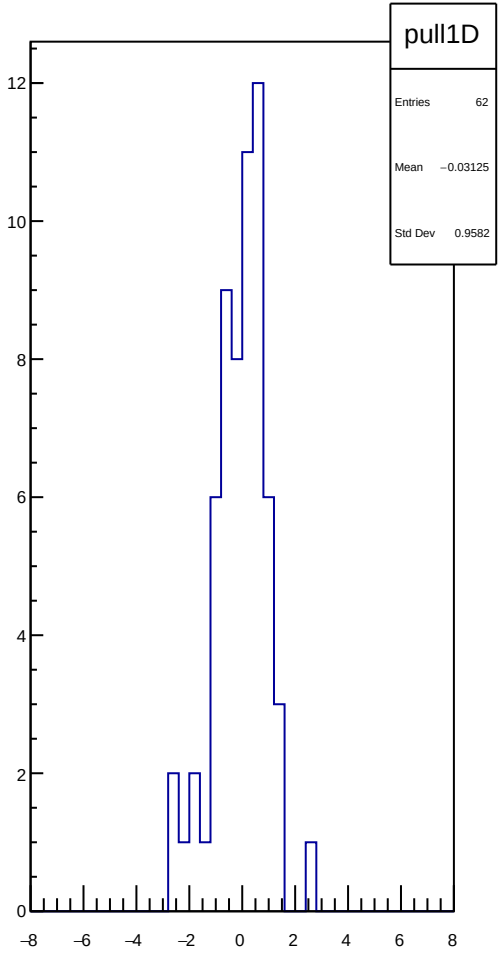

pull1D
Entries 62
Mean −0.02009
Std Dev 0.6775

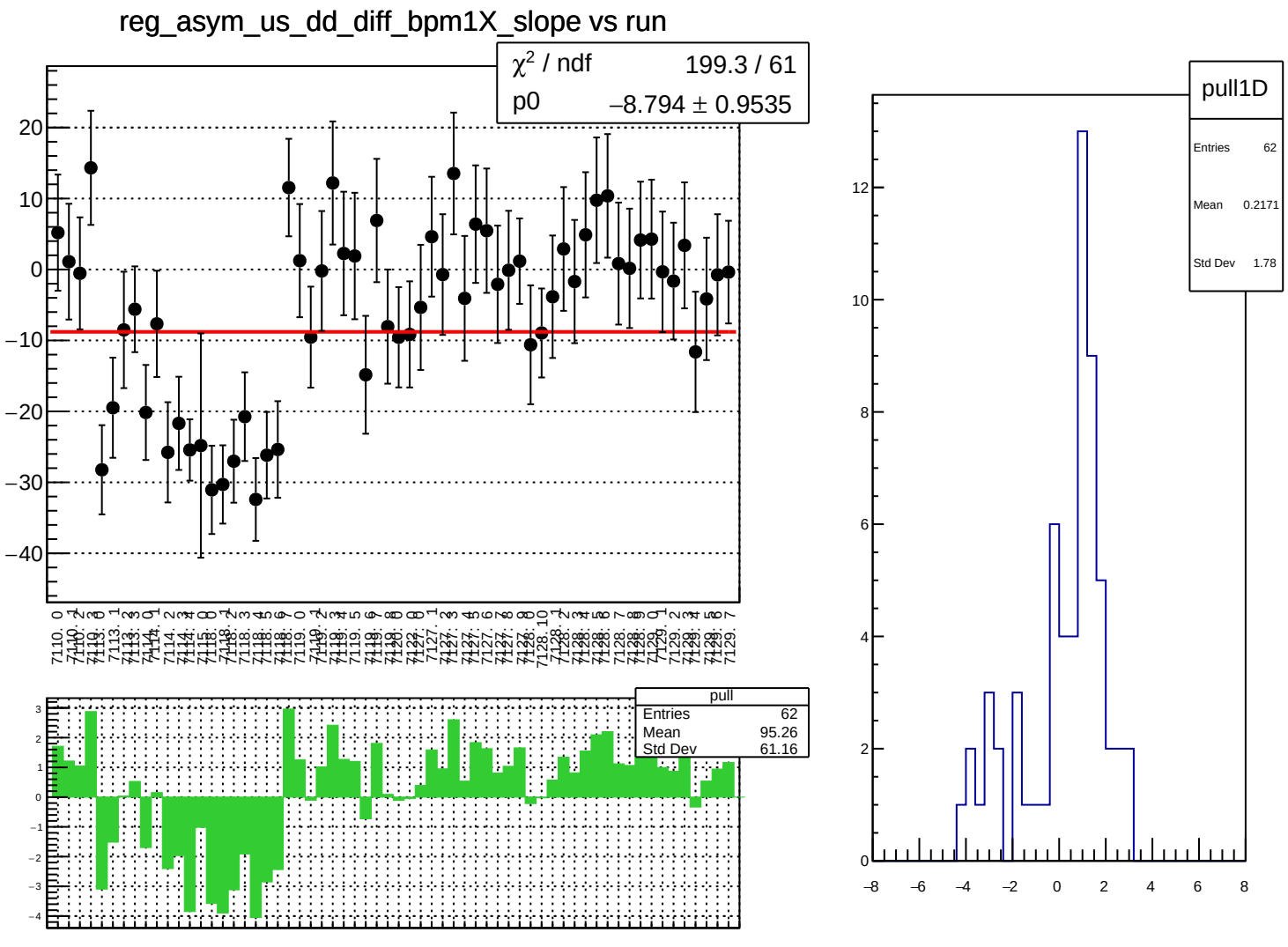

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.38 / 61
p0 54.45 ± 1.749
pull
Entries 62
Mean 115.4
Std Dev 77.44
pull1D
Entries 62
Mean 0.0456
Std Dev 0.8637

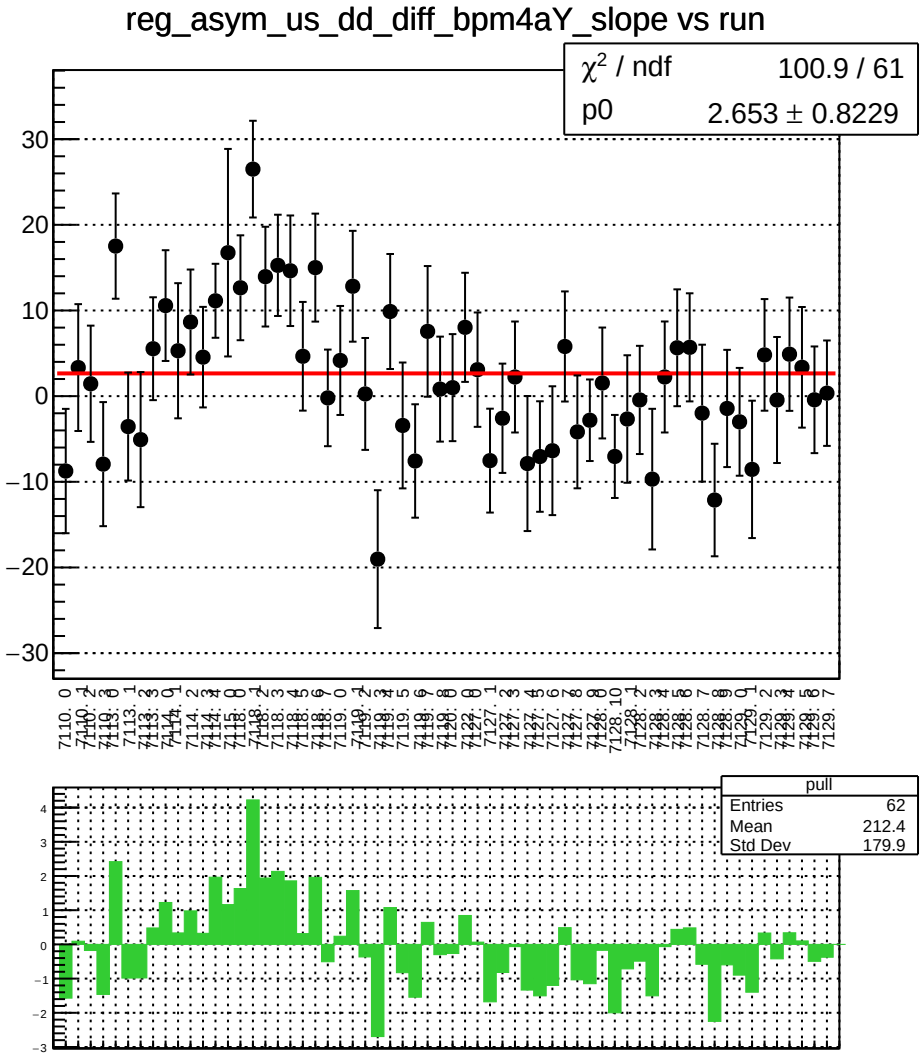

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.73 / 61
p0 20.76 ± 1.58
pull
Entries 62
Mean −100.8
Std Dev 135.2

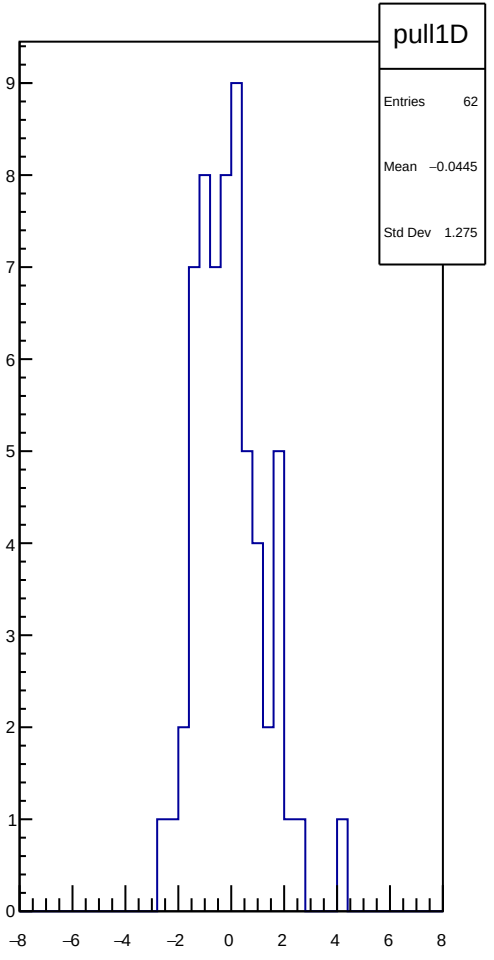

pull1D
Entries 62
Mean 0.04132
Std Dev 0.758

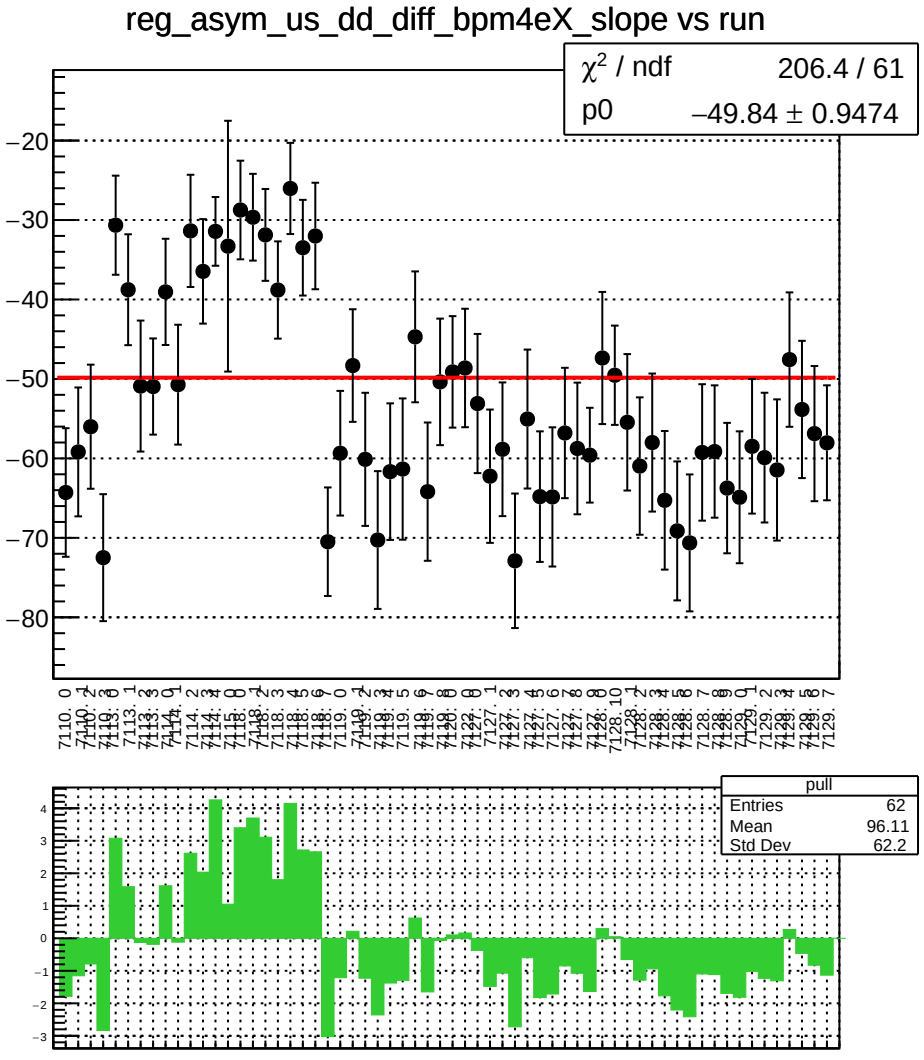

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 56.98 / 61
p0 −38.54 ± 0.0722
pull
Entries 62
Mean −280.2
Std Dev 308.2

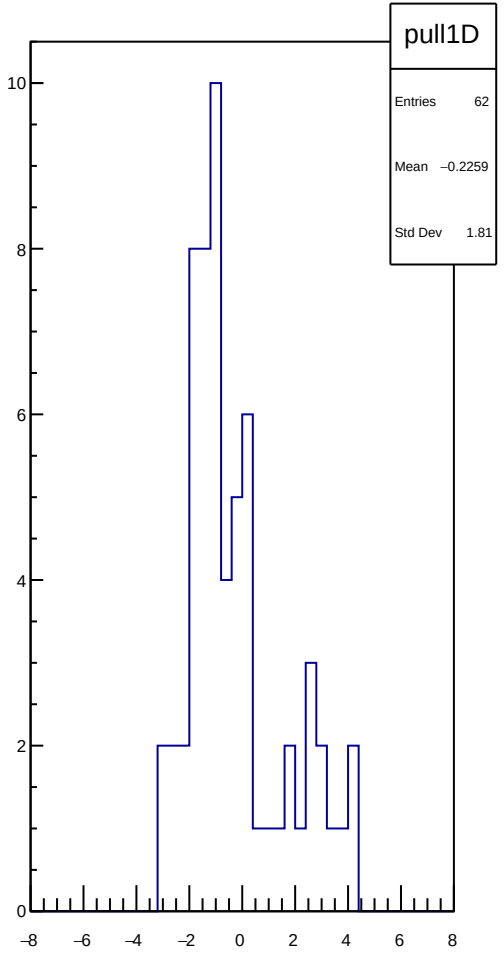

pull1D
Entries 62
Mean −0.03125
Std Dev 0.9582

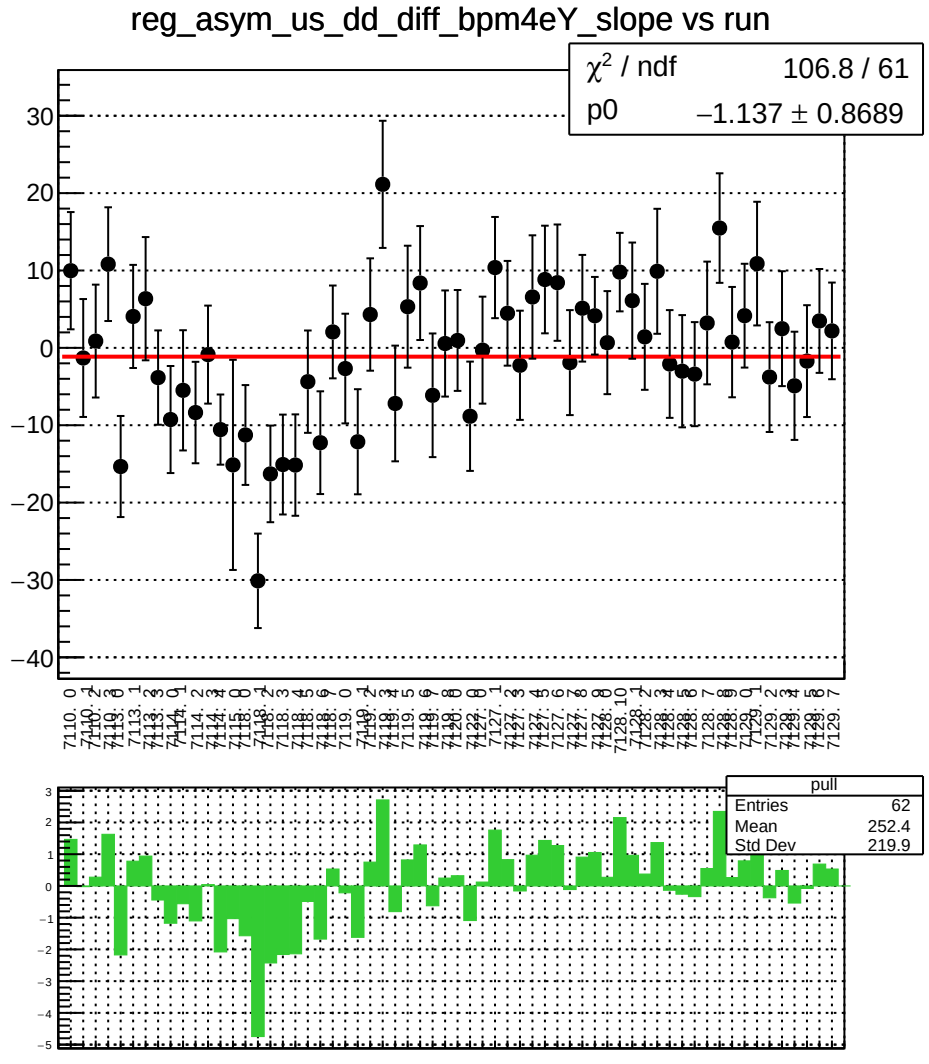

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 199.3 / 61
p0 −8.794 ± 0.9535
pull
Entries 62
Mean 95.26
Std Dev 61.16
pull1D
Entries 62
Mean 0.2171
Std Dev 1.78

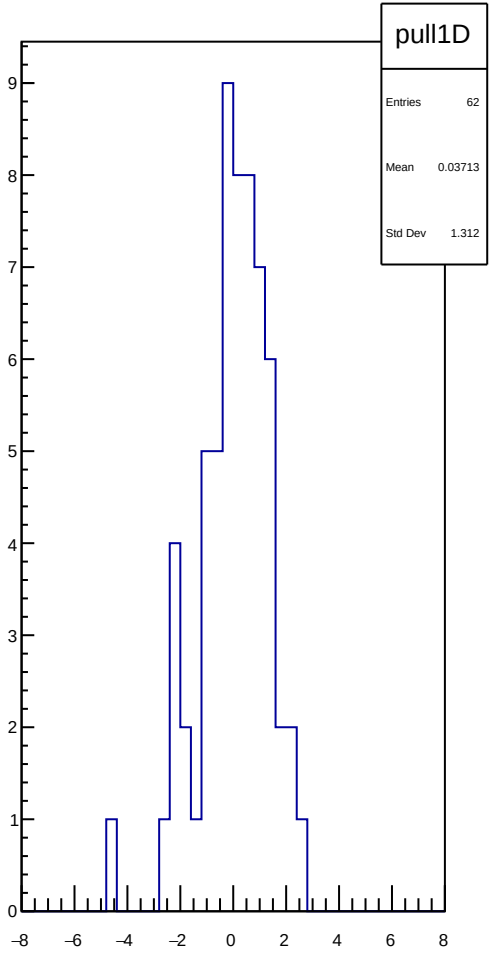

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 100.9 / 61
p0 2.653 ± 0.8229
pull
Entries 62
Mean 212.4
Std Dev 179.9

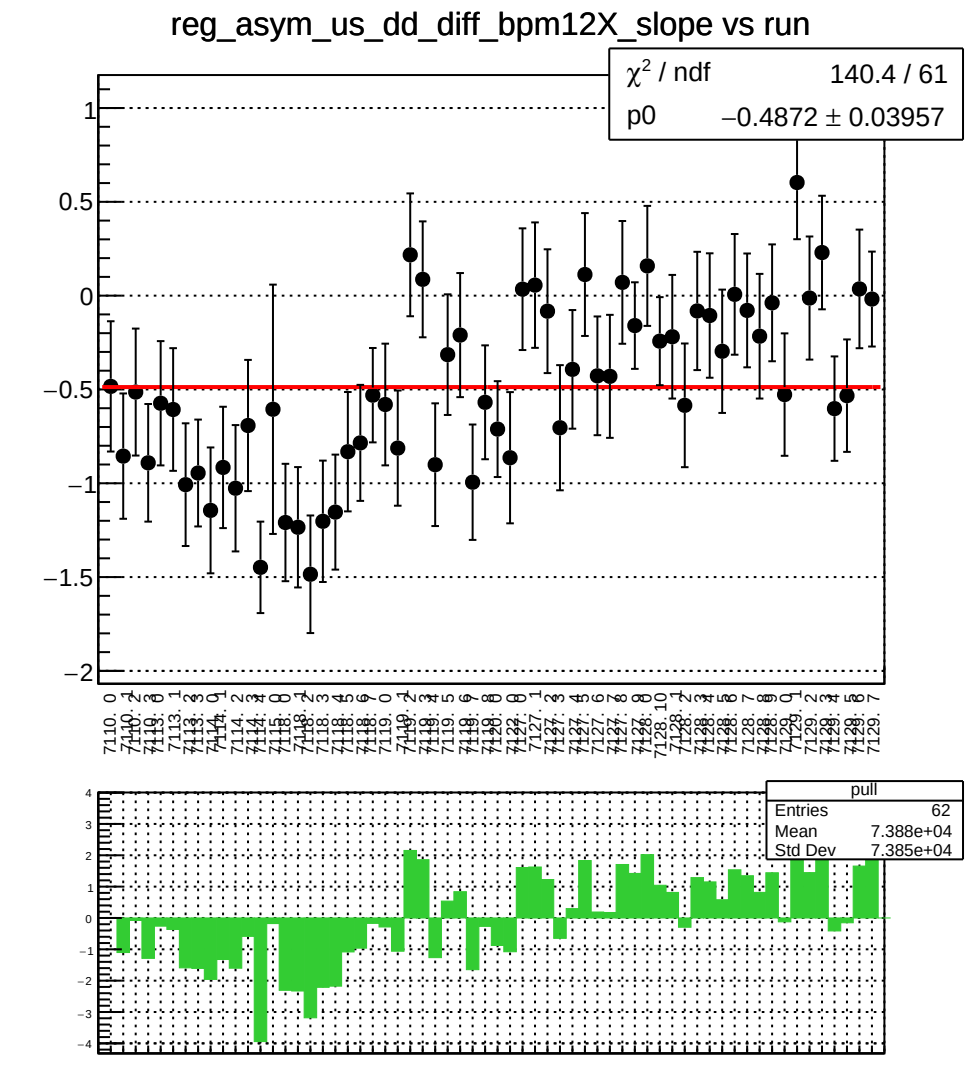

pull1D
Entries 62
Mean −0.0445
Std Dev 1.275

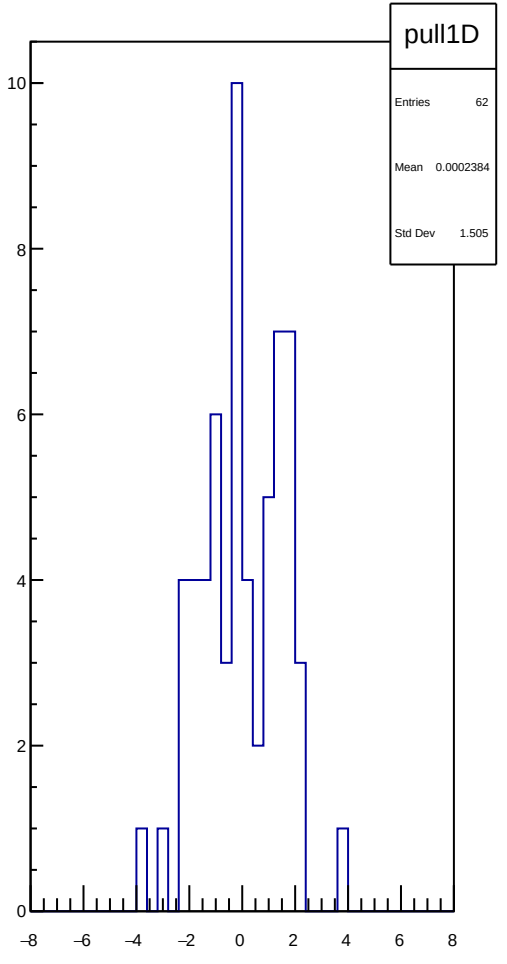

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 206.4 / 61
p0 −49.84 ± 0.9474
pull
Entries 62
Mean 96.11
Std Dev 62.2

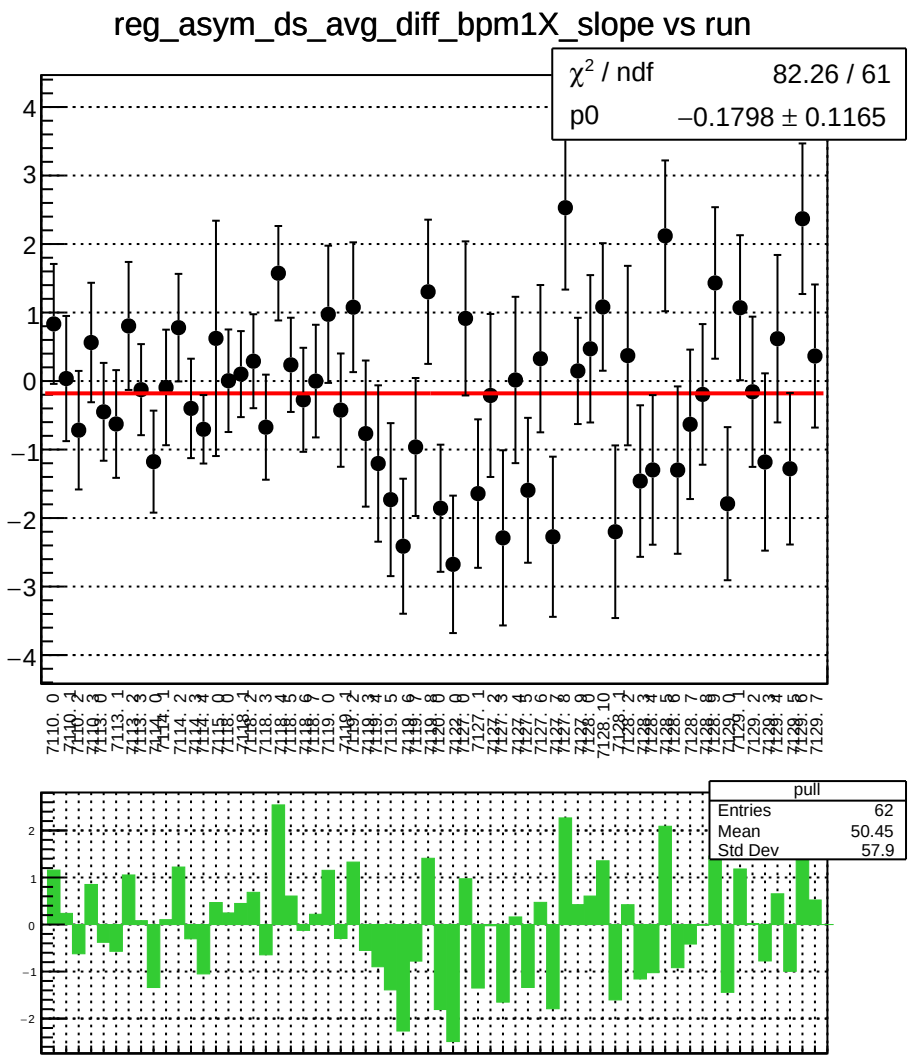

pull1D
Entries 62
Mean −0.2259
Std Dev 1.81

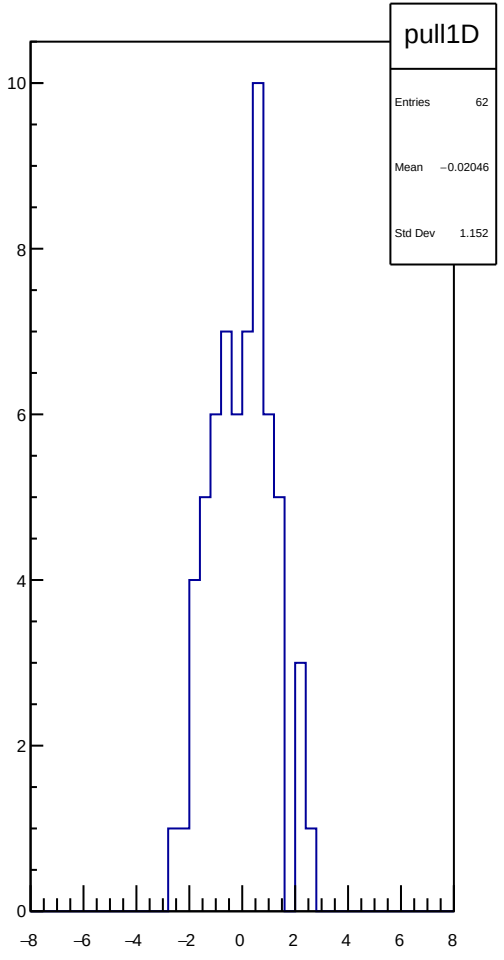

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 106.8 / 61
p0 −1.137 ± 0.8689
pull
Entries 62
Mean 252.4
Std Dev 219.9

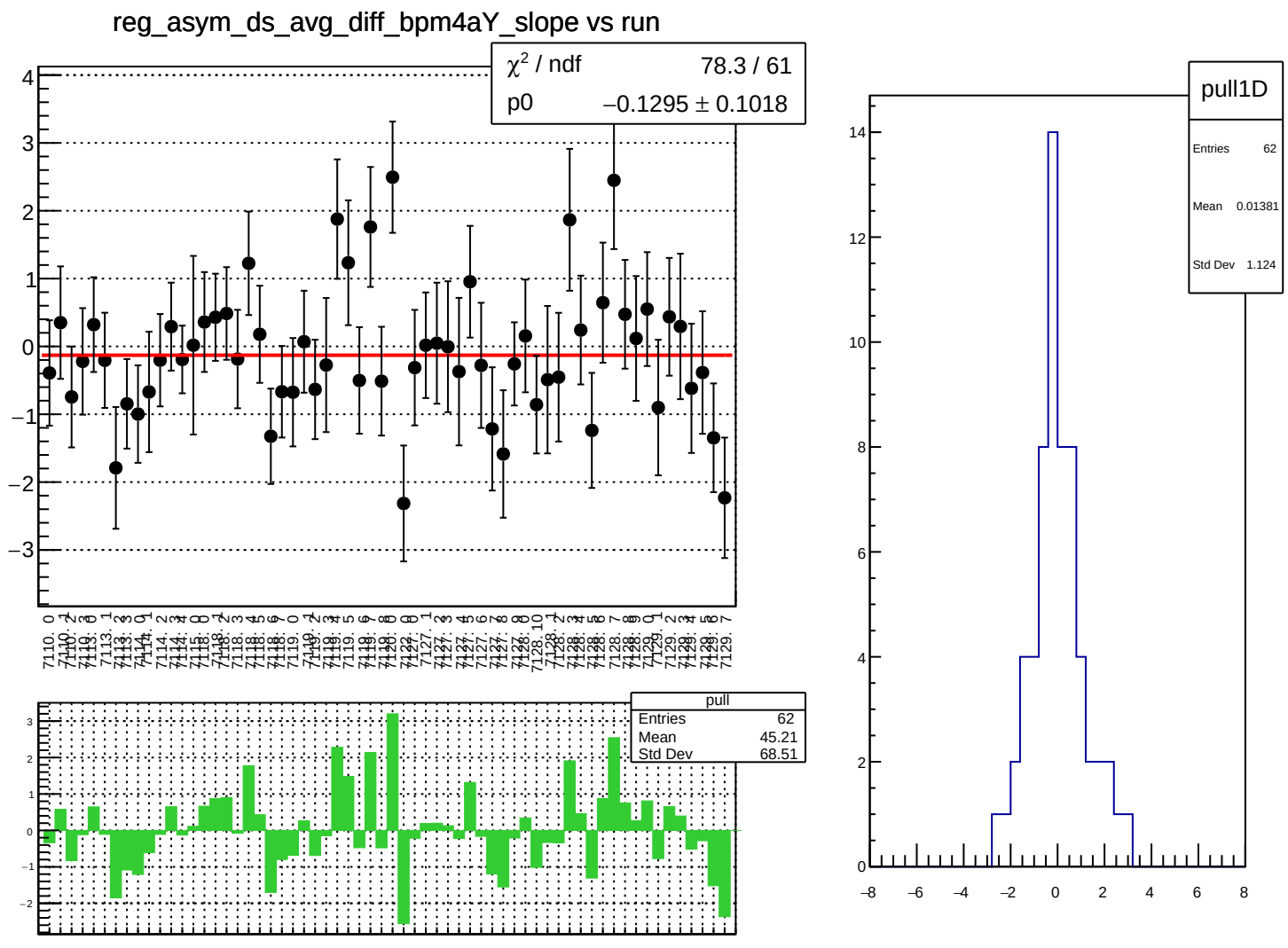

pull1D
Entries 62
Mean 0.03713
Std Dev 1.312

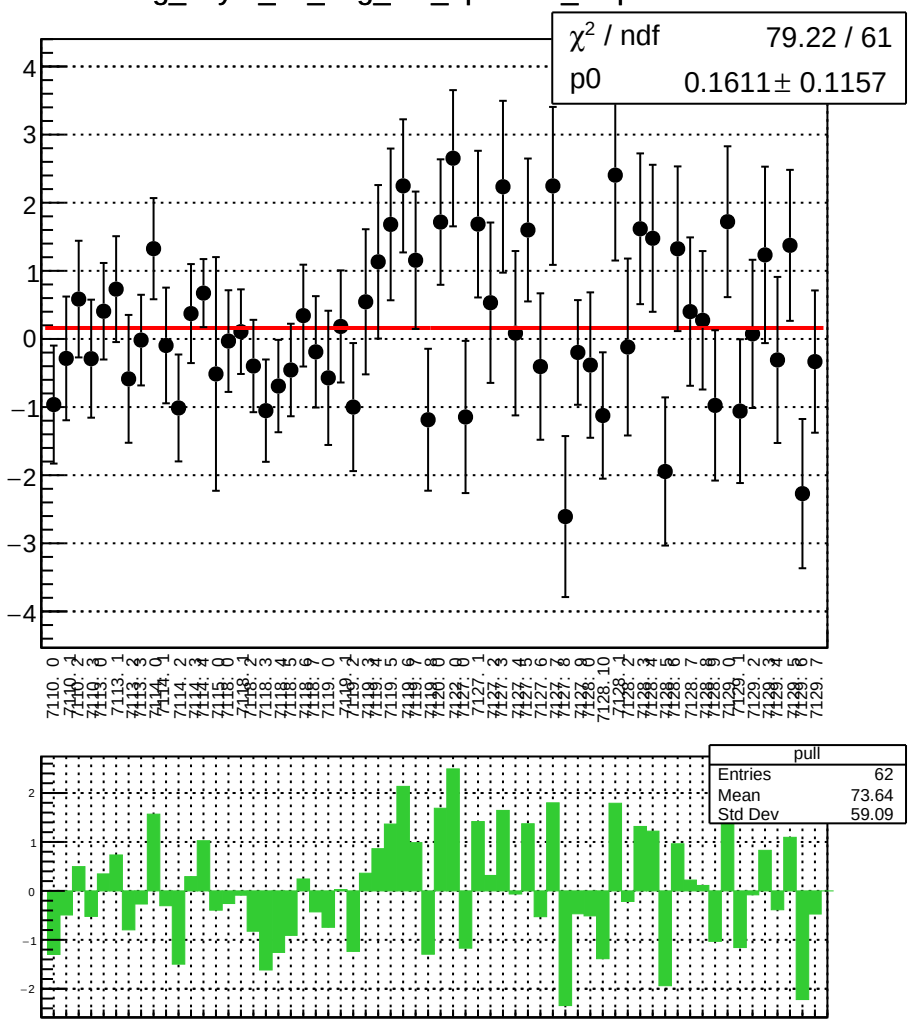

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 140.4 / 61
p0 −0.4872 ± 0.03957
pull
Entries 62
Mean 7.388e+04
Std Dev 7.385e+04

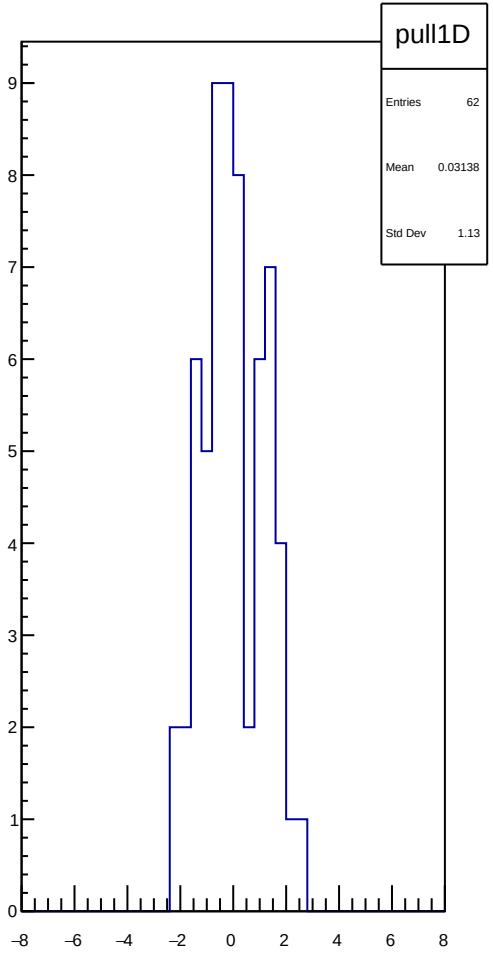

pull1D
Entries 62
Mean 0.0002384
Std Dev 1.505

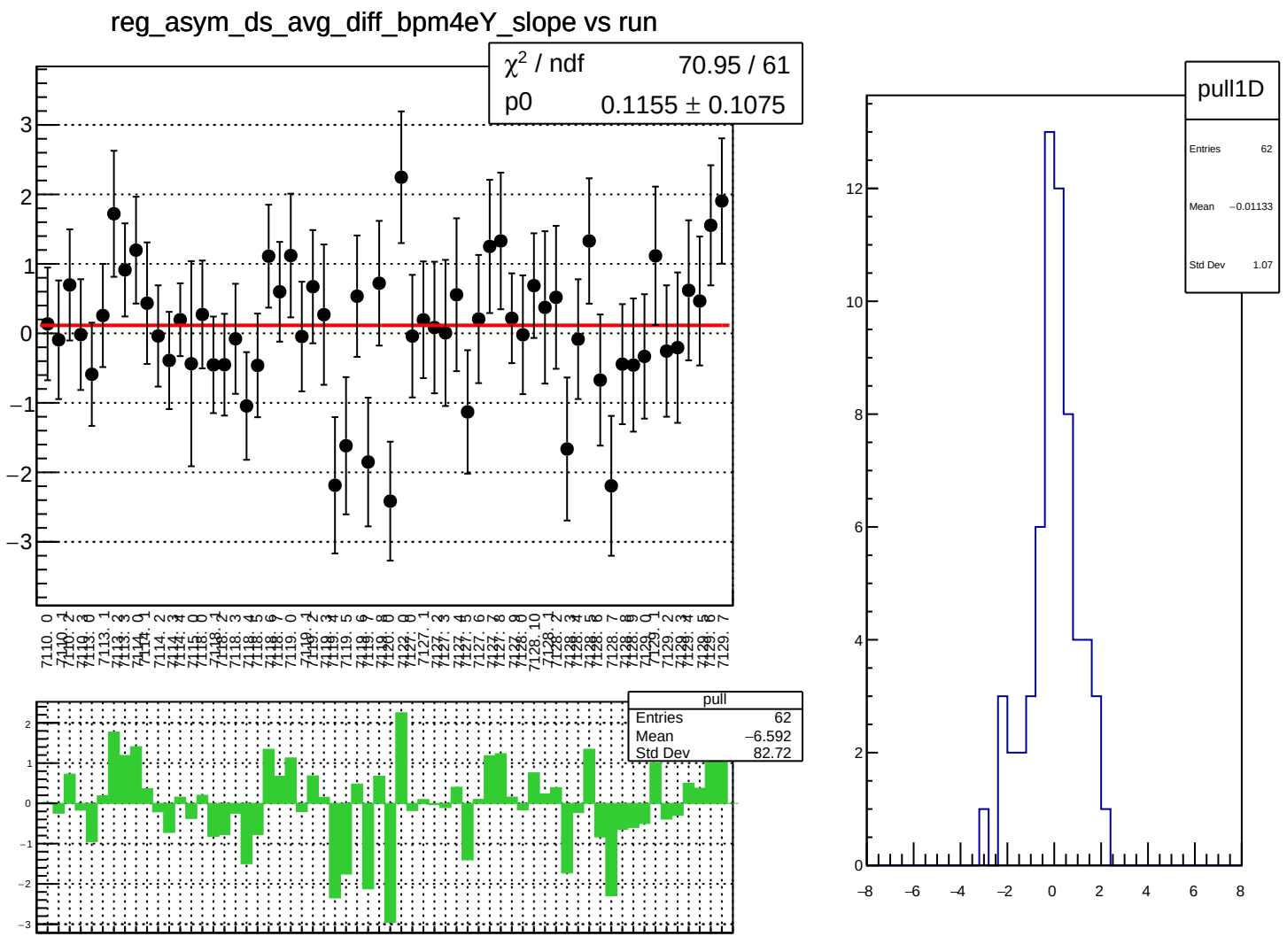

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 82.26 / 61
p0 −0.1798 ± 0.1165
pull
Entries 62
Mean 50.45
Std Dev 57.9

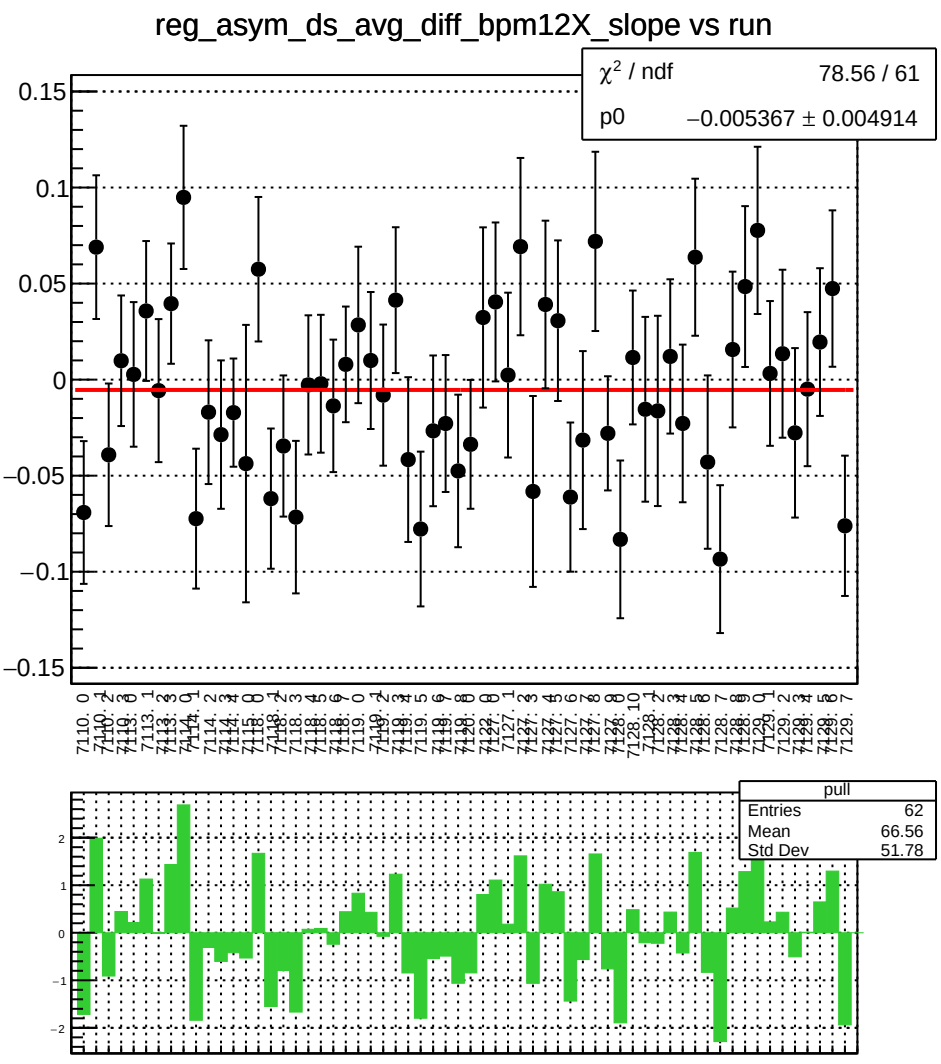

pull1D
Entries 62
Mean −0.02046
Std Dev 1.152

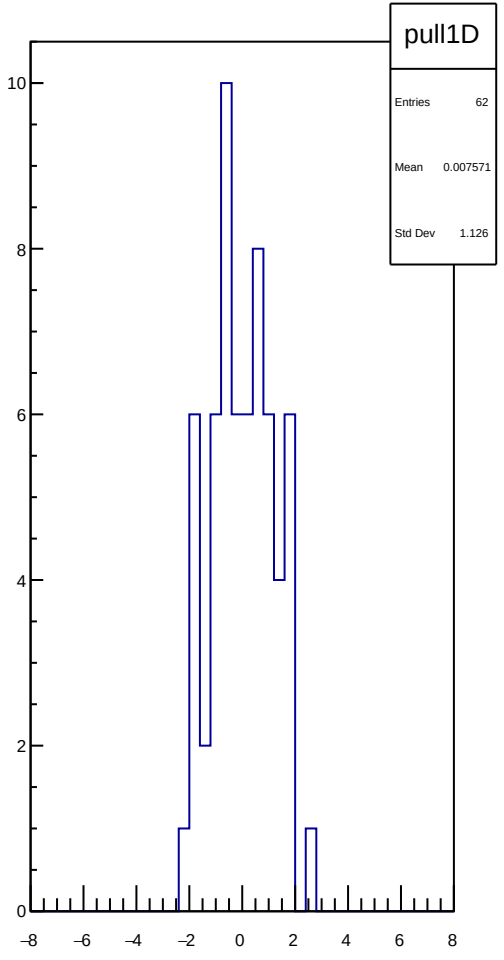

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 78.3 / 61
p0 −0.1295 ± 0.1018
pull
Entries 62
Mean 45.21
Std Dev 68.51
pull1D
Entries 62
Mean 0.01381
Std Dev 1.124

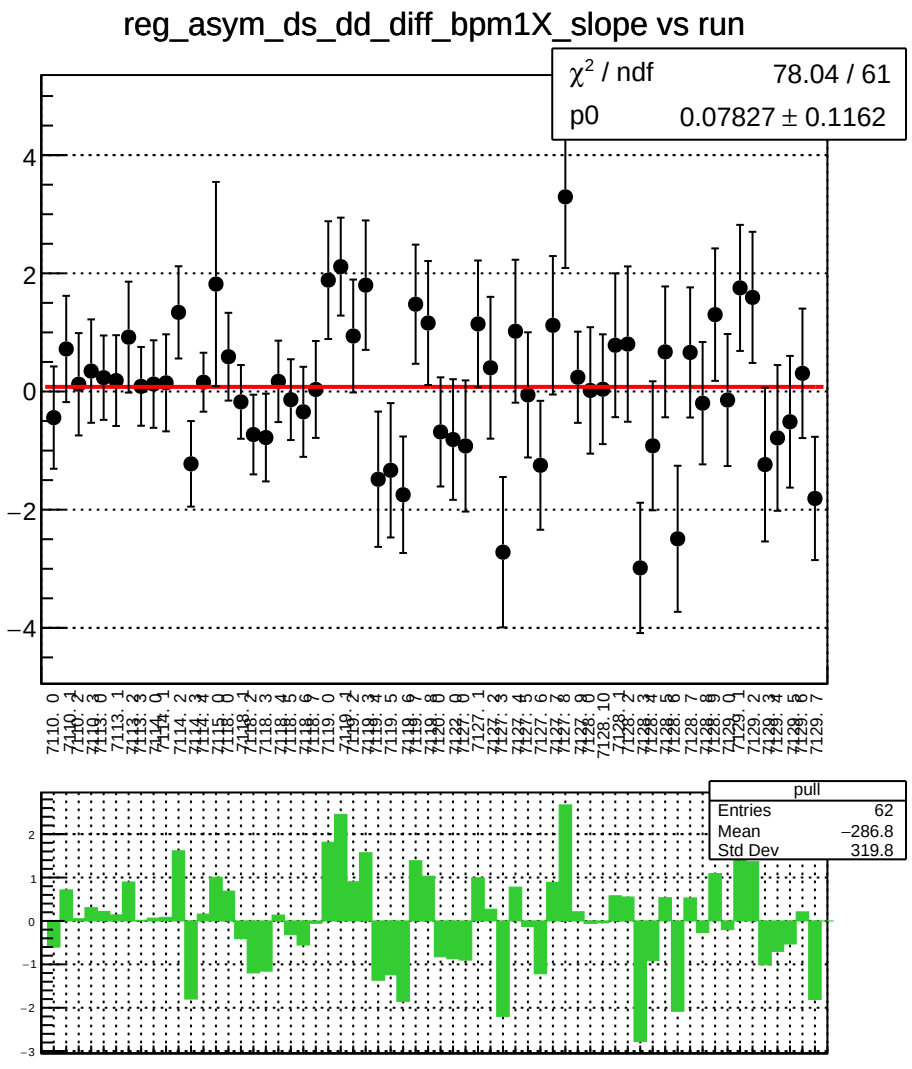

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 79.22 / 61
p0 0.1611 ± 0.1157
pull
Entries 62
Mean 73.64
Std Dev 59.09

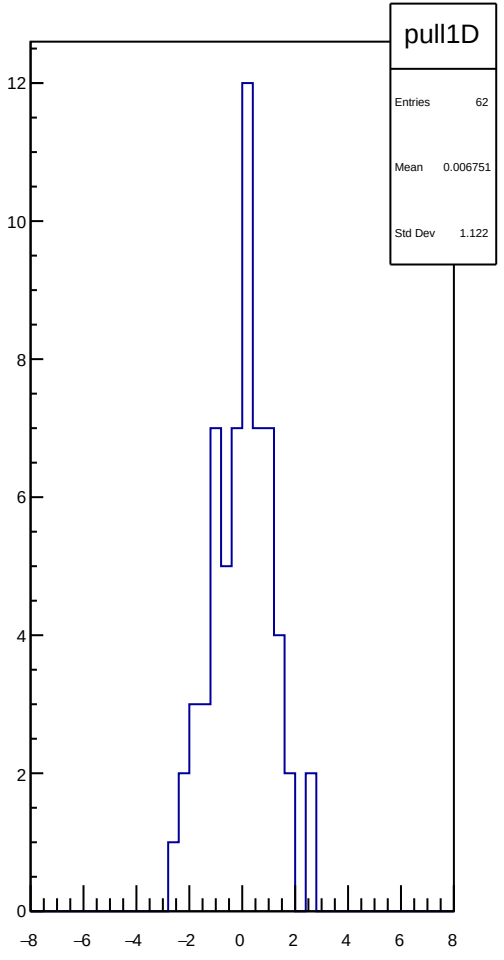

pull1D
Entries 62
Mean 0.03138
Std Dev 1.13

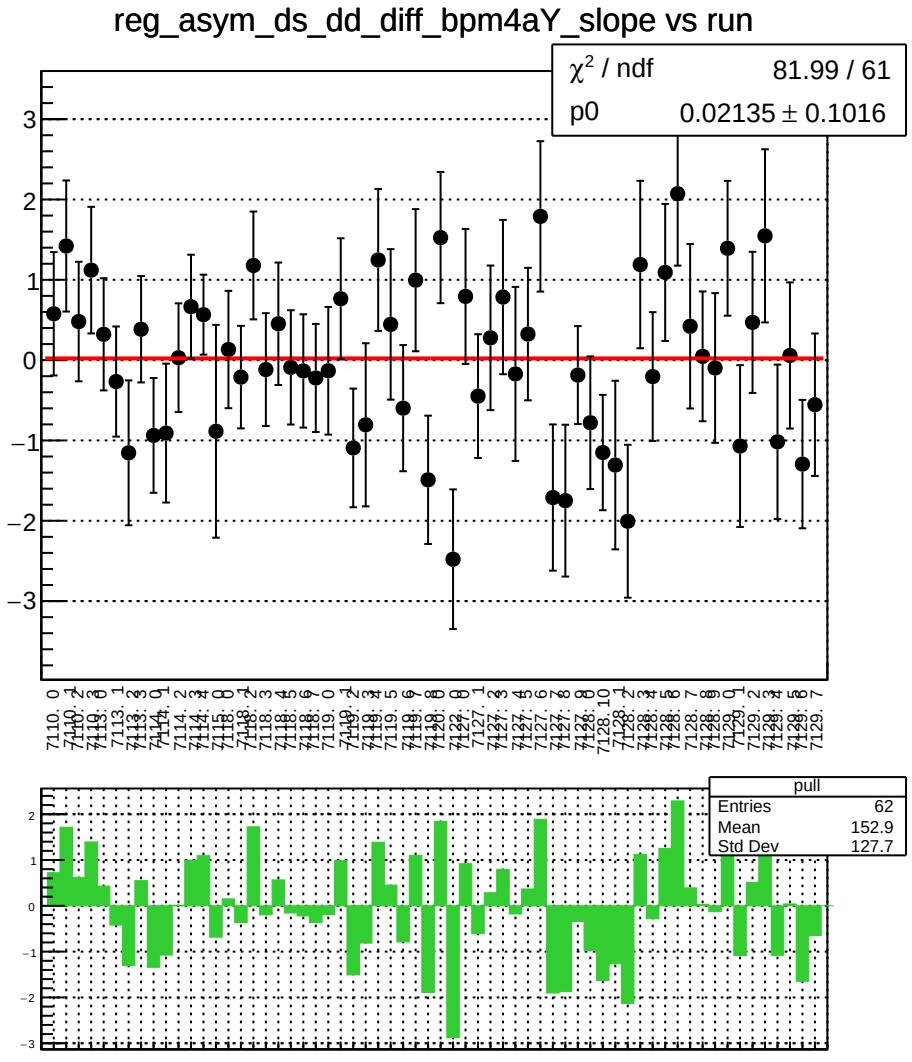

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 70.95 / 61
p0 0.1155 ± 0.1075
pull
Entries 62
Mean −6.592
Std Dev 82.72
pull1D
Entries 62
Mean −0.01133
Std Dev 1.07

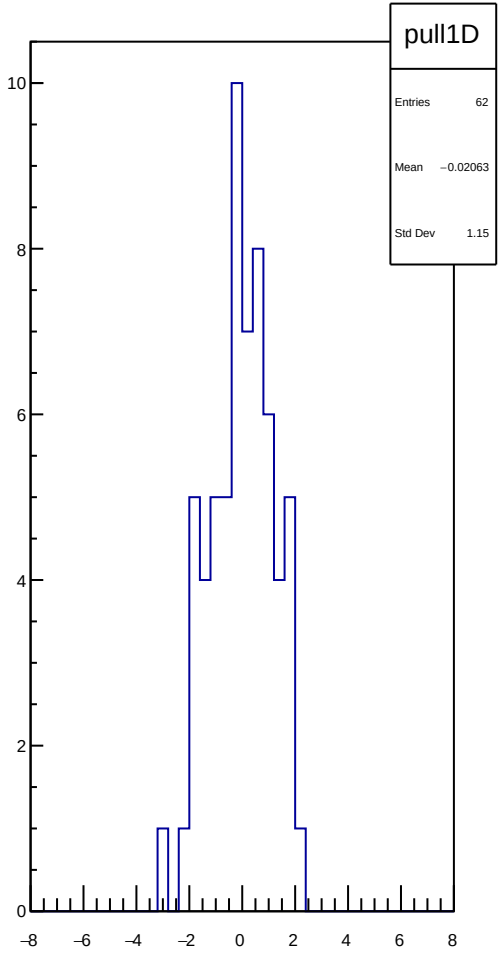

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 78.56 / 61
p0 −0.005367 ± 0.004914
pull
Entries 62
Mean 66.56
Std Dev 51.78

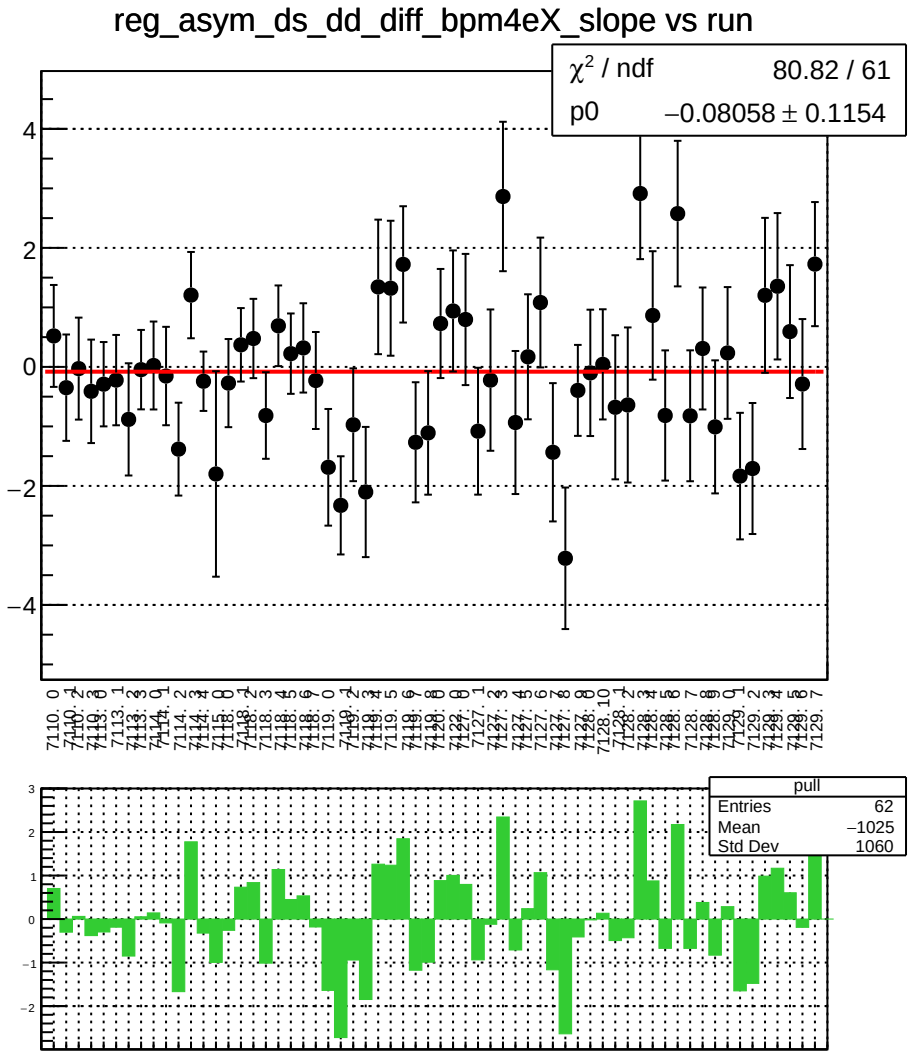

pull1D
Entries 62
Mean 0.007571
Std Dev 1.126

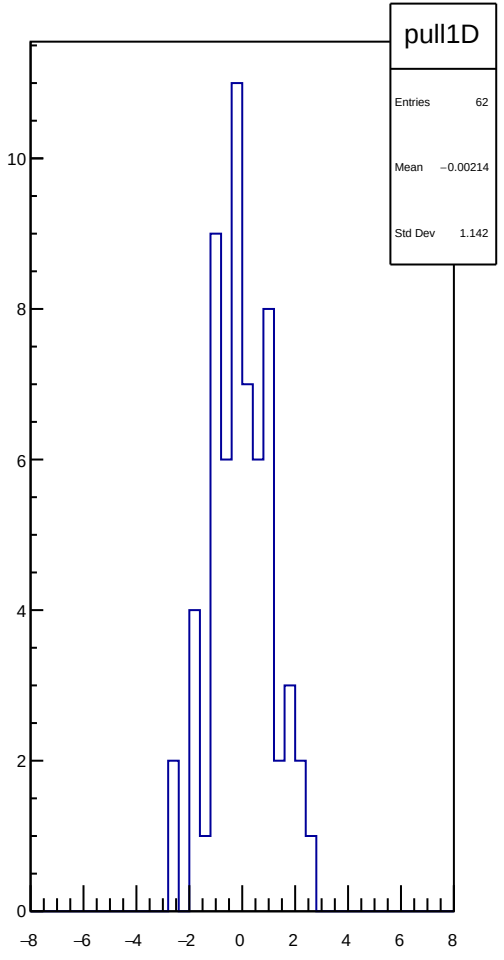

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 78.04 / 61
p0 0.07827 ± 0.1162
pull
Entries 62
Mean −286.8
Std Dev 319.8

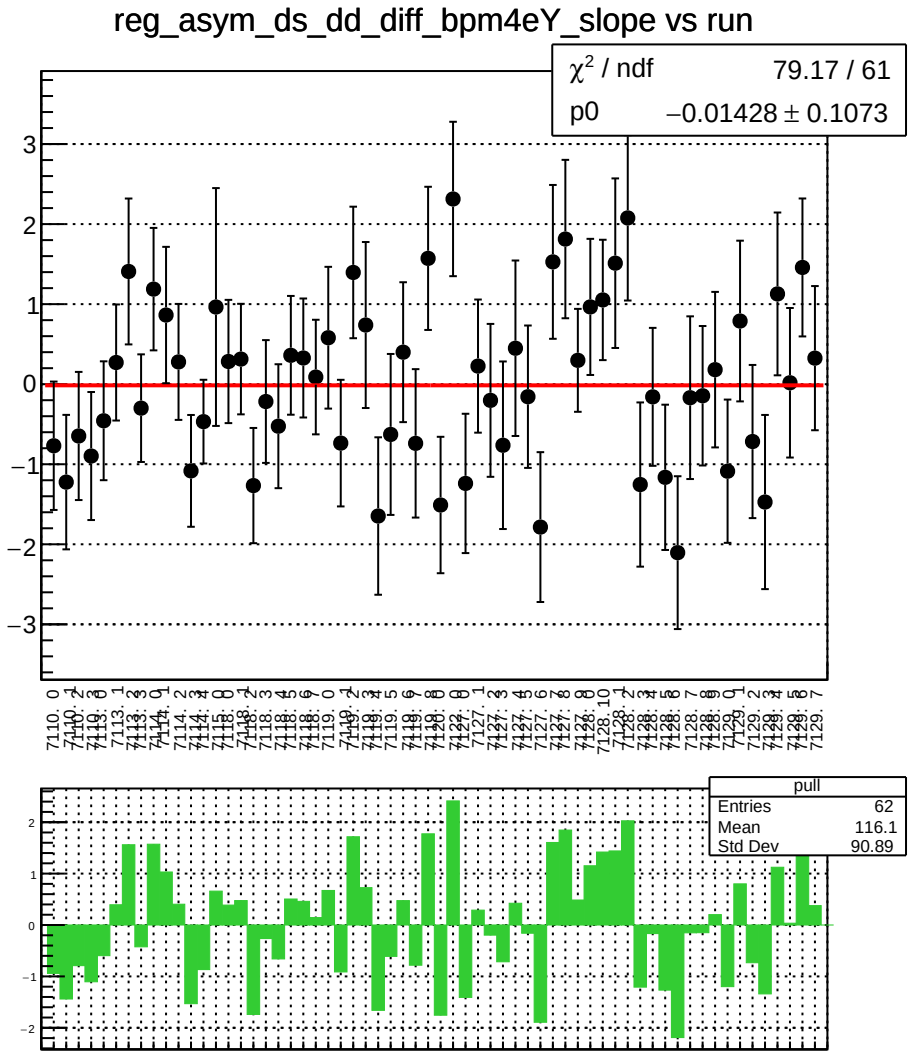

pull1D
Entries 62
Mean 0.006751
Std Dev 1.122

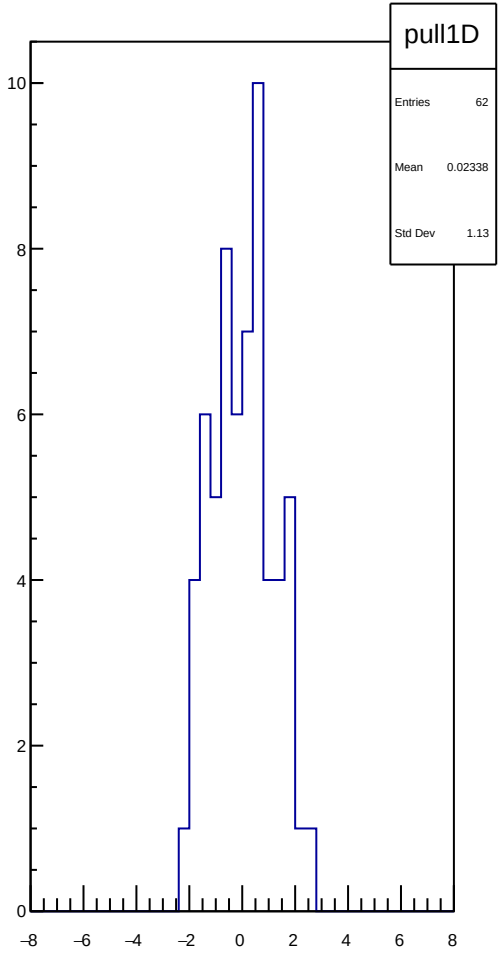

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.99 / 61
p0 0.02135 ± 0.1016
pull
Entries 62
Mean 152.9
Std Dev 127.7

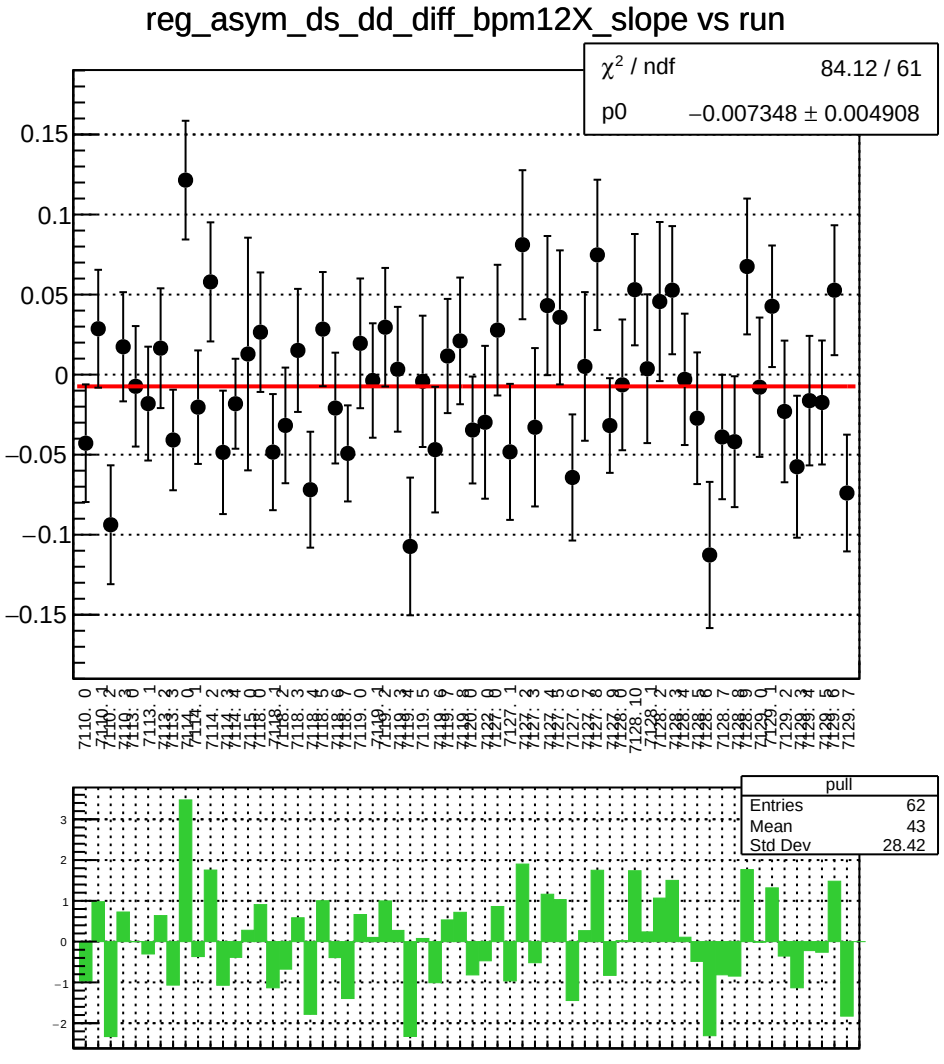

pull1D
Entries 62
Mean −0.02063
Std Dev 1.15

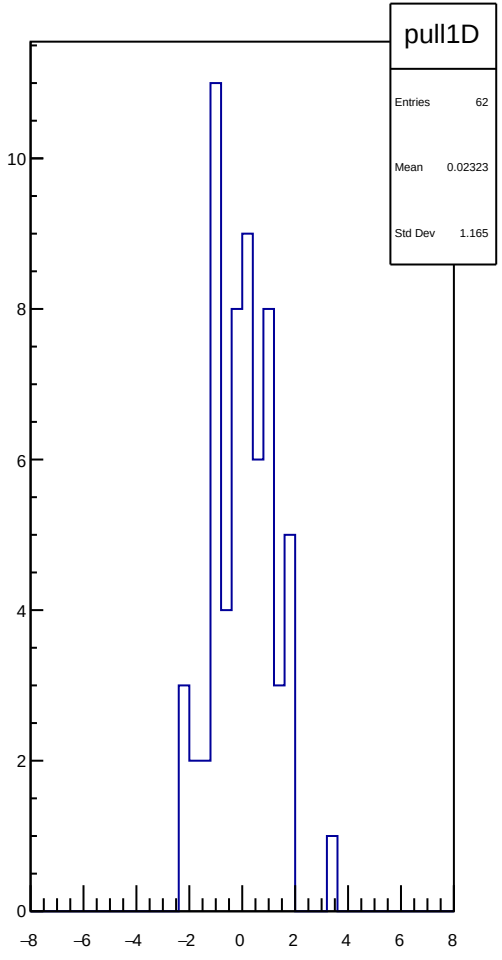

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.82 / 61
p0 −0.08058 ± 0.1154
pull
Entries 62
Mean −1025
Std Dev 1060

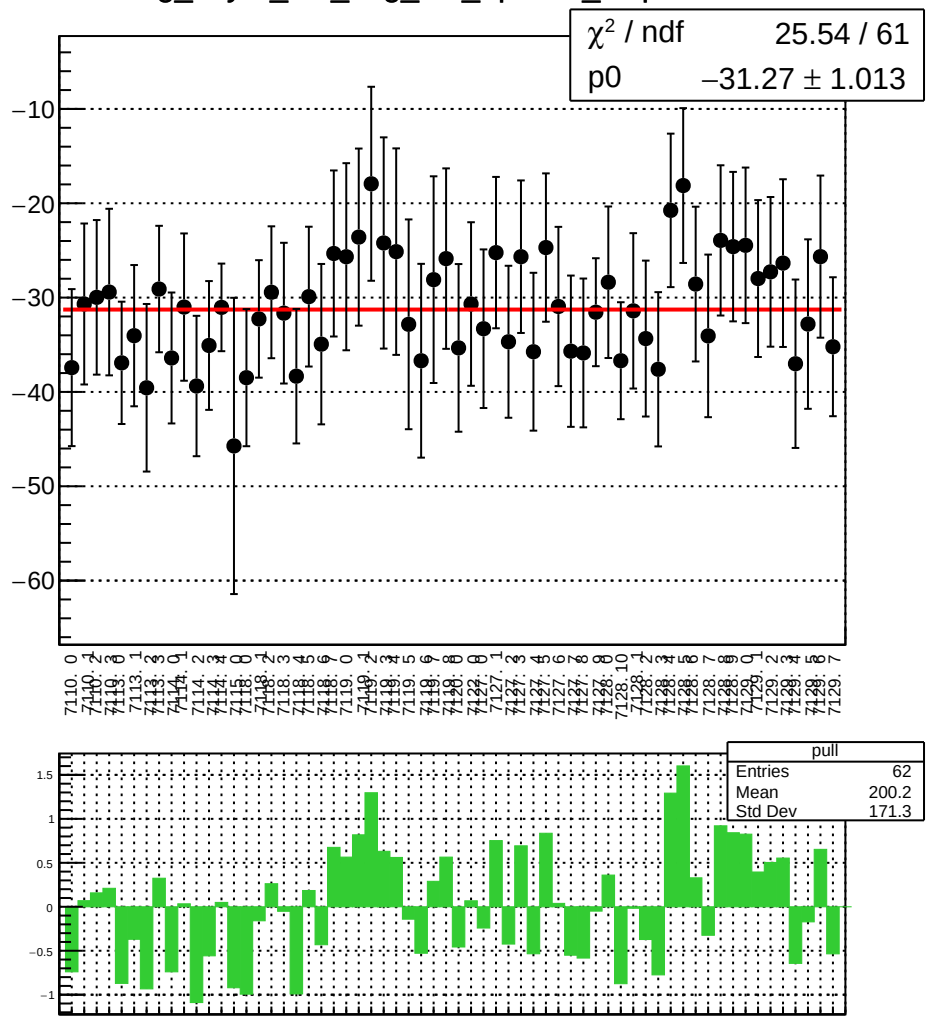

pull1D
Entries 62
Mean −0.00214
Std Dev 1.142

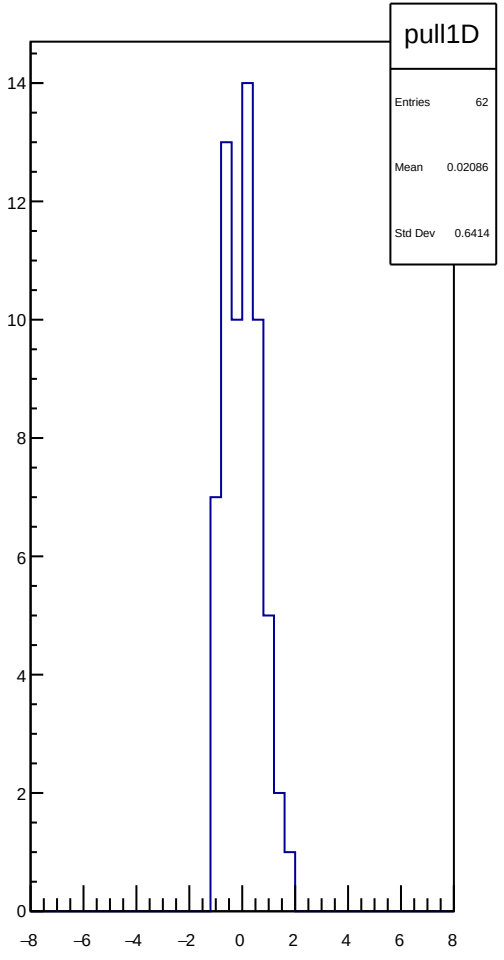

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.17 / 61
p0 −0.01428 ± 0.1073
pull
Entries 62
Mean 116.1
Std Dev 90.89

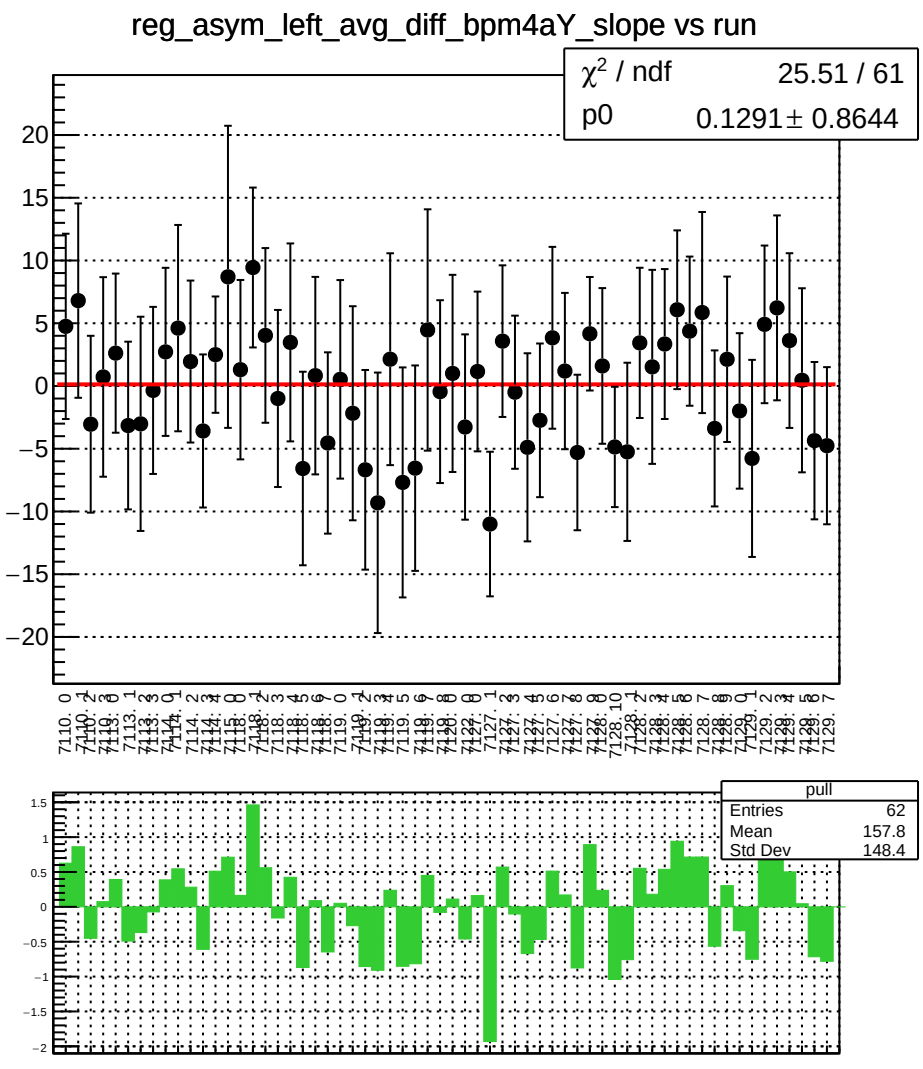

pull1D
Entries 62
Mean 0.02338
Std Dev 1.13

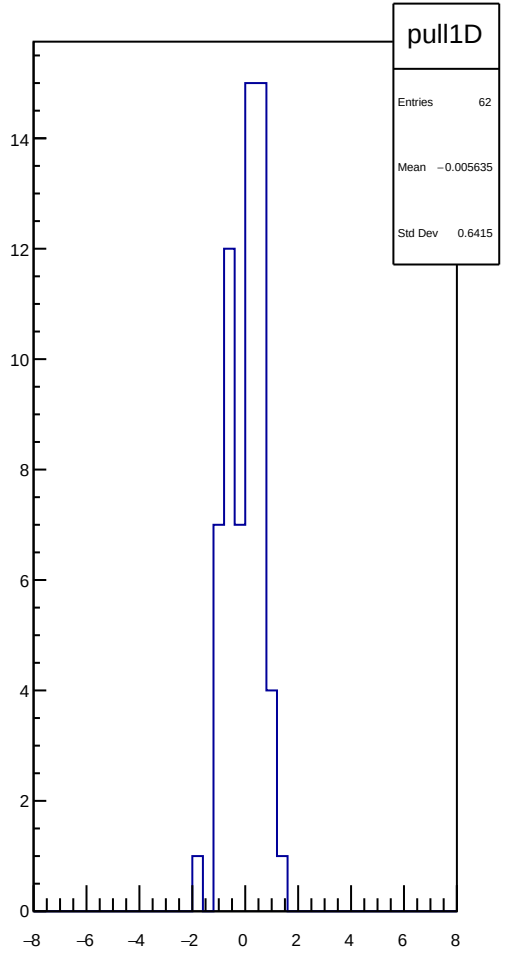

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 84.12 / 61
p0 −0.007348 ± 0.004908
pull
Entries 62
Mean 43
Std Dev 28.42

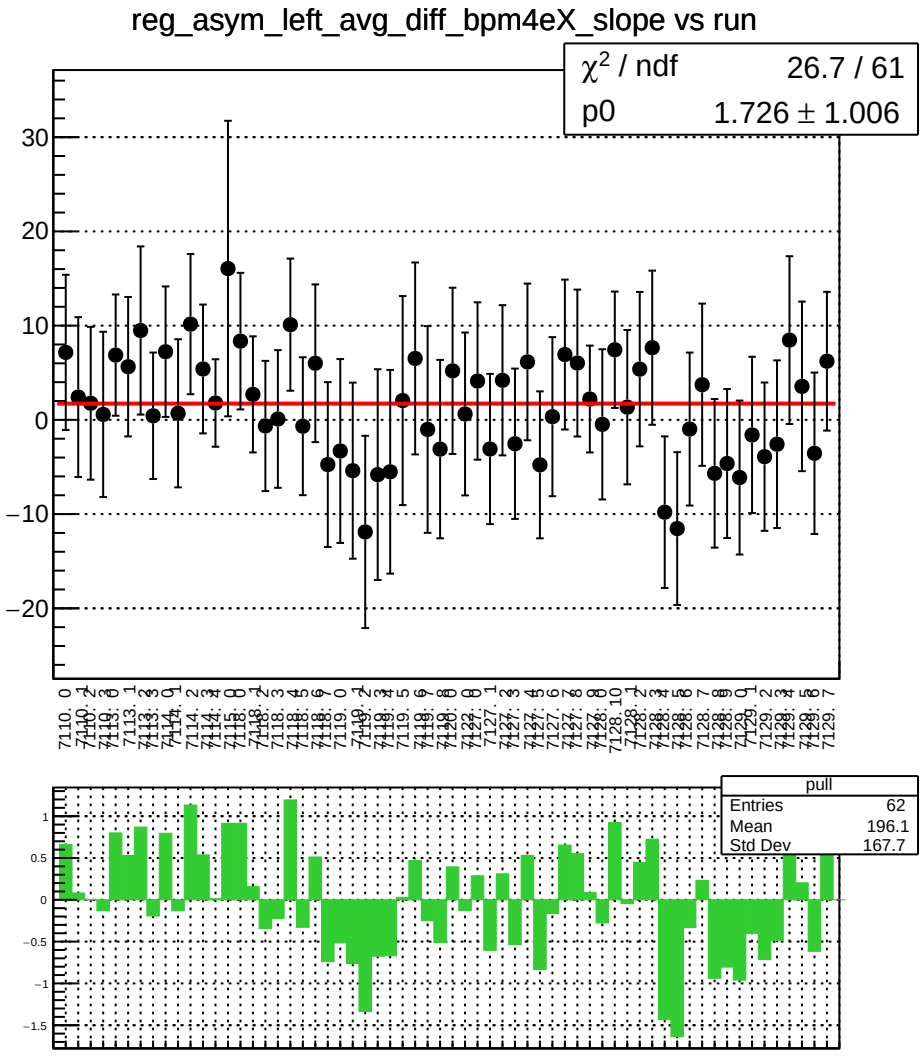

pull1D
Entries 62
Mean 0.02323
Std Dev 1.165

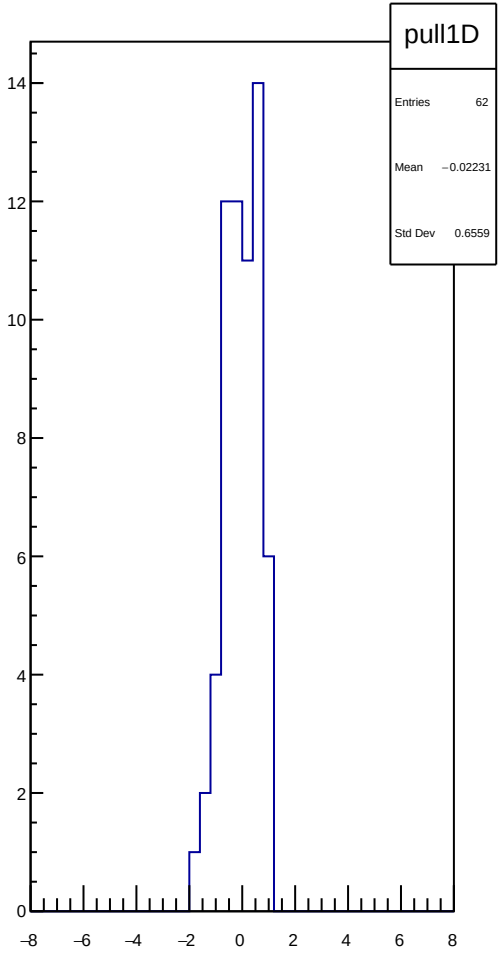

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 25.54 / 61
p0 −31.27 ± 1.013
pull
Entries 62
Mean 200.2
Std Dev 171.3

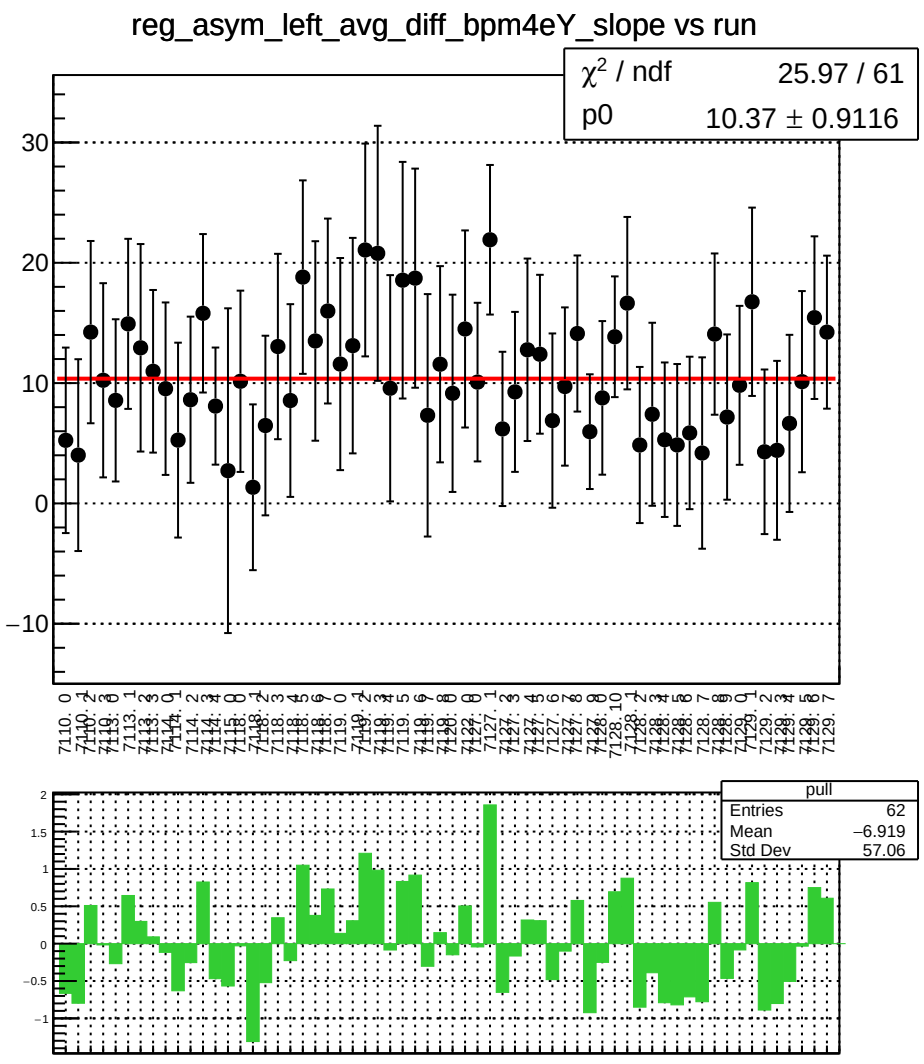

pull1D
Entries 62
Mean 0.02086
Std Dev 0.6414

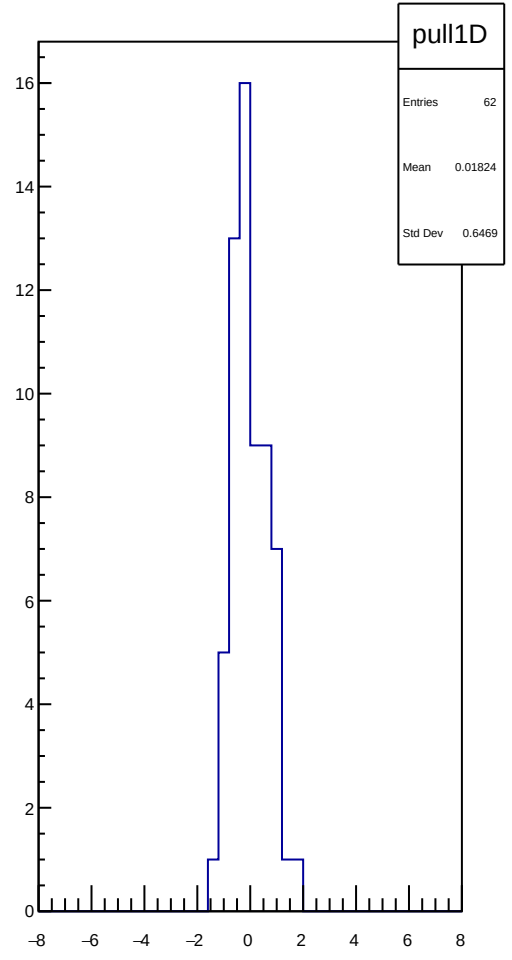

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.51 / 61
p0 0.1291 ± 0.8644
pull
Entries 62
Mean 157.8
Std Dev 148.4

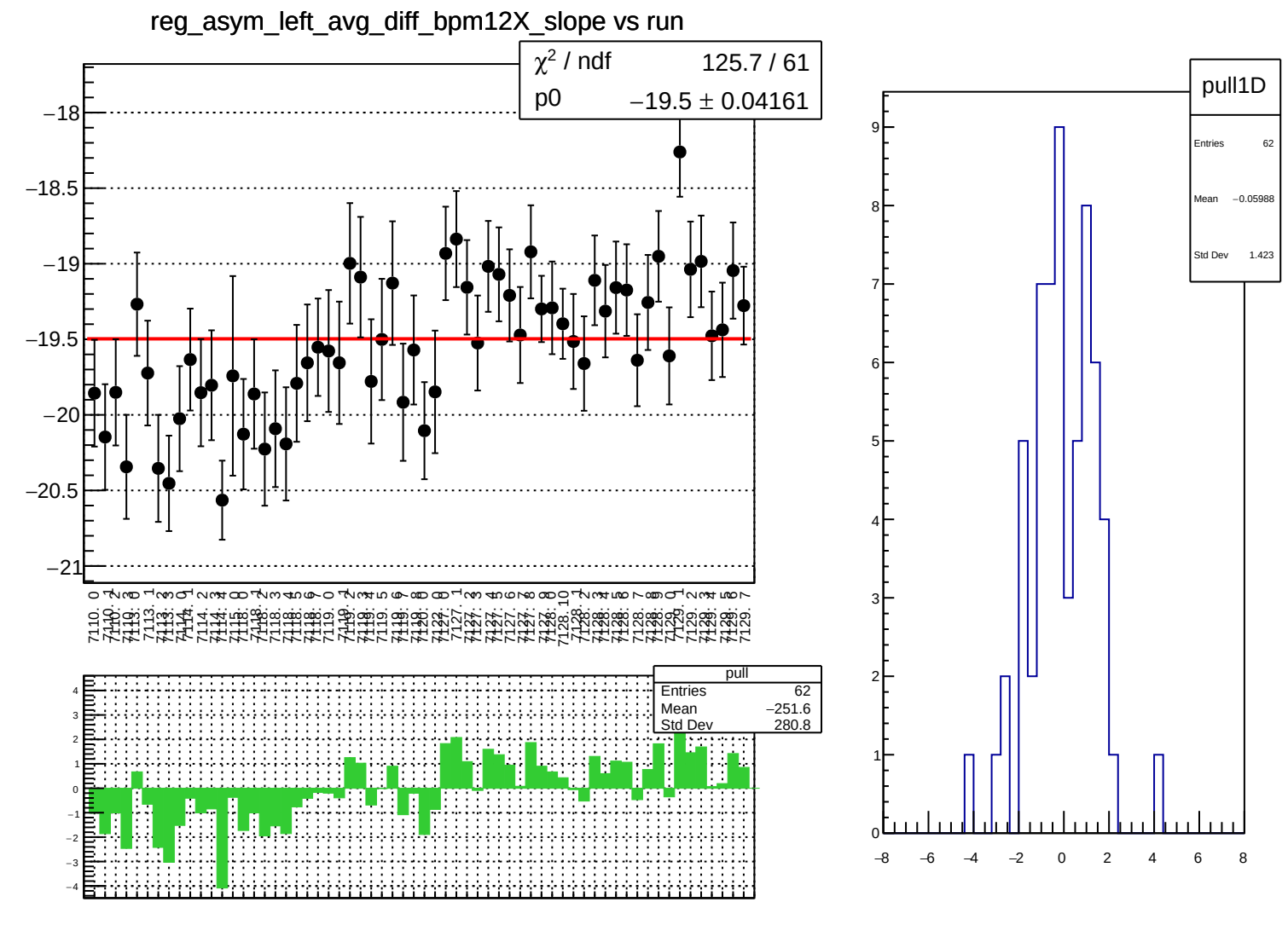

pull1D
Entries 62
Mean −0.005635
Std Dev 0.6415

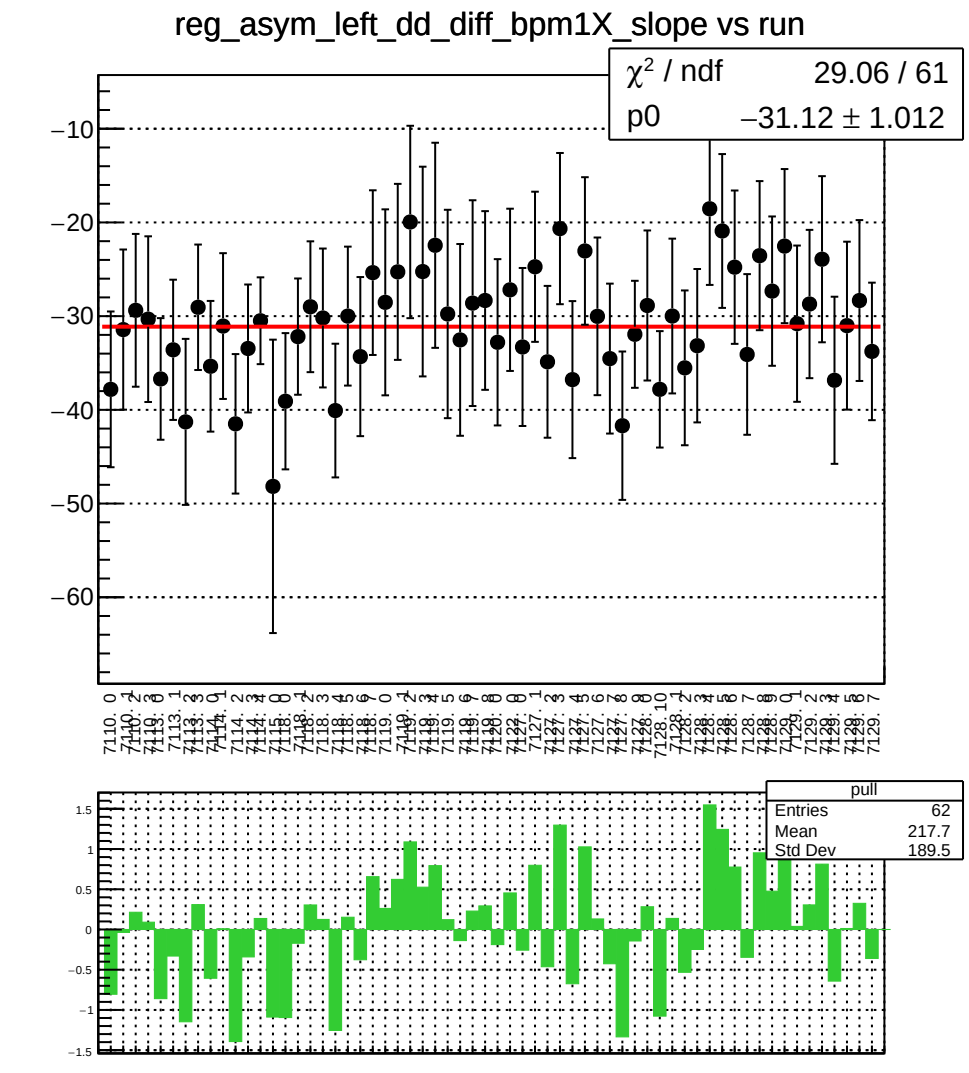

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.7 / 61
p0 1.726 ± 1.006
pull
Entries 62
Mean 196.1
Std Dev 167.7

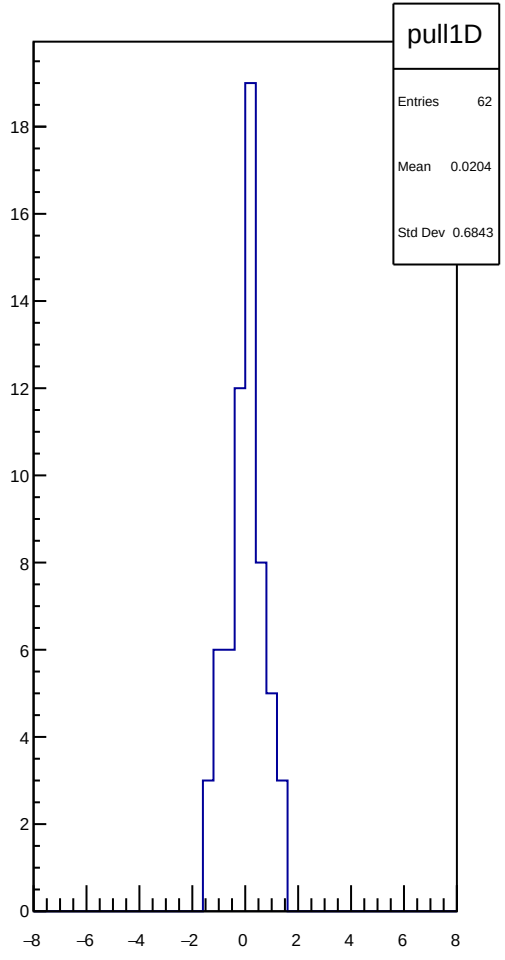

pull1D
Entries 62
Mean −0.02231
Std Dev 0.6559

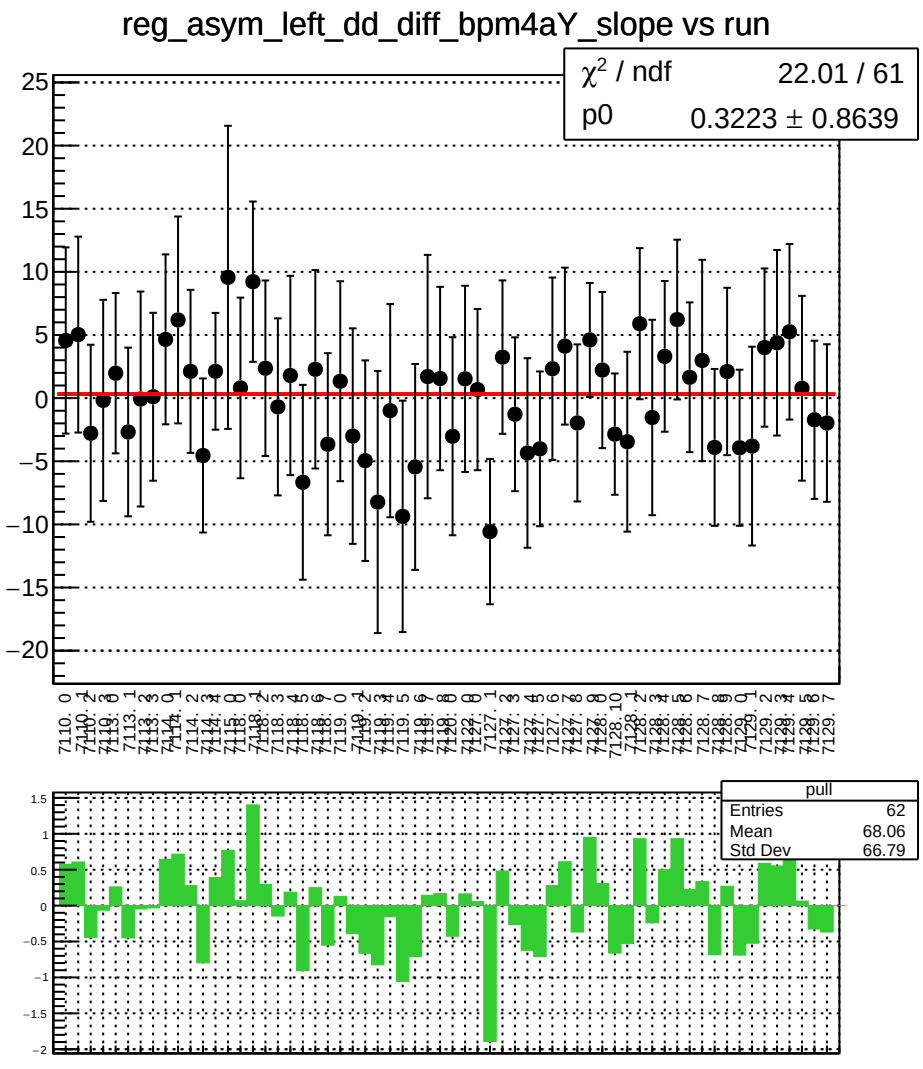

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.97 / 61
p0 10.37 ± 0.9116
pull
Entries 62
Mean −6.919
Std Dev 57.06

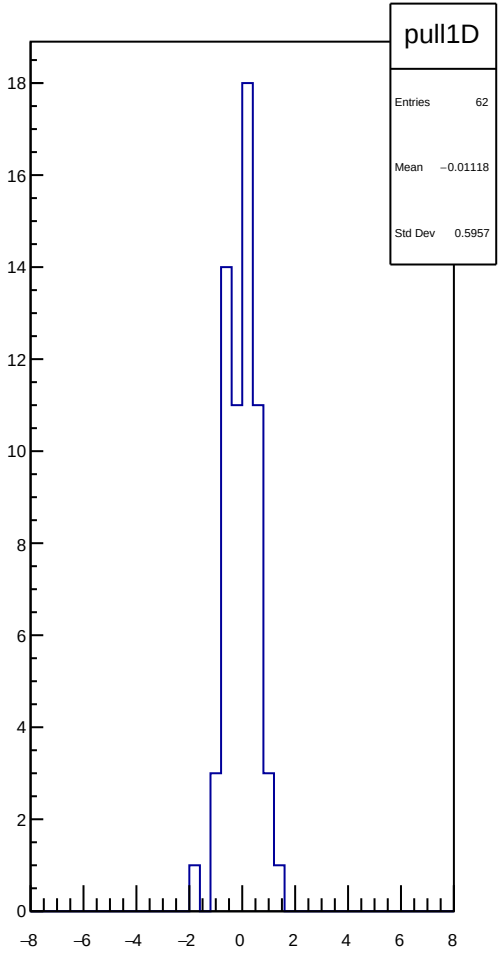

pull1D
Entries 62
Mean 0.01824
Std Dev 0.6469

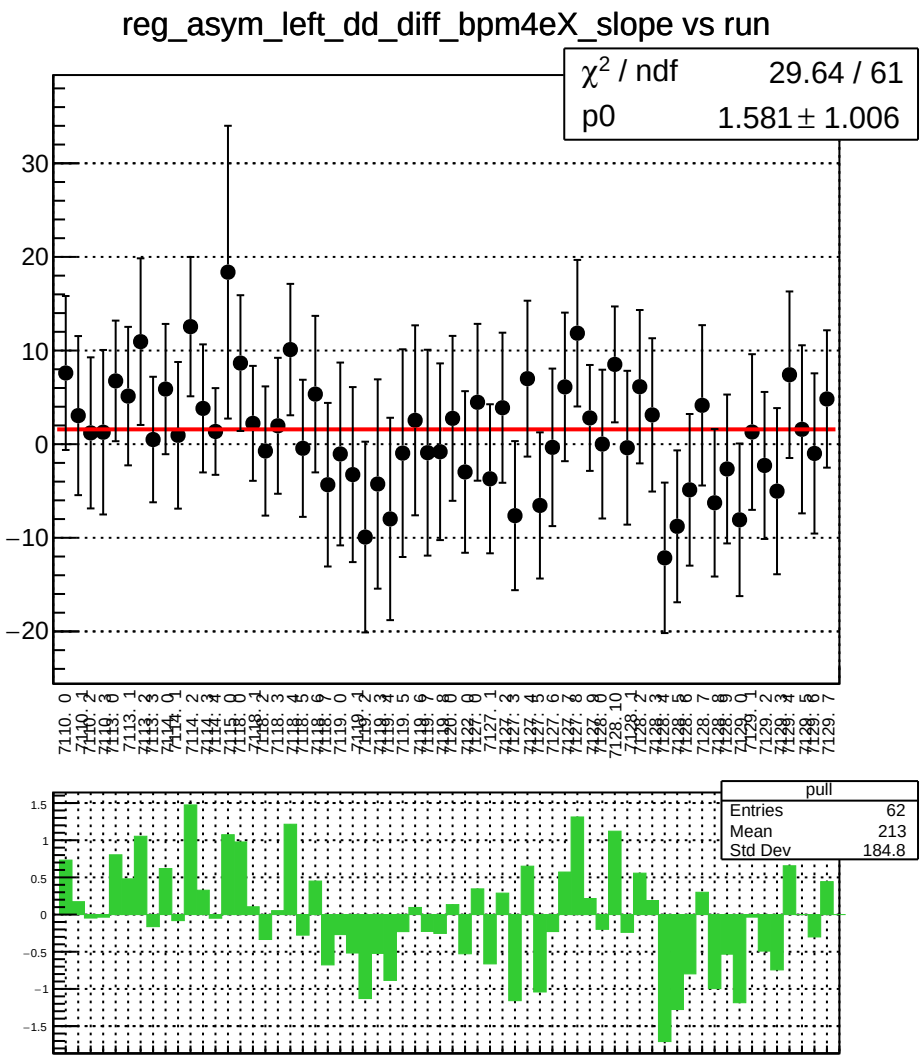

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 125.7 / 61
p0 −19.5 ± 0.04161
pull
Entries 62
Mean −251.6
Std Dev 280.8
pull1D
Entries 62
Mean −0.05988
Std Dev 1.423

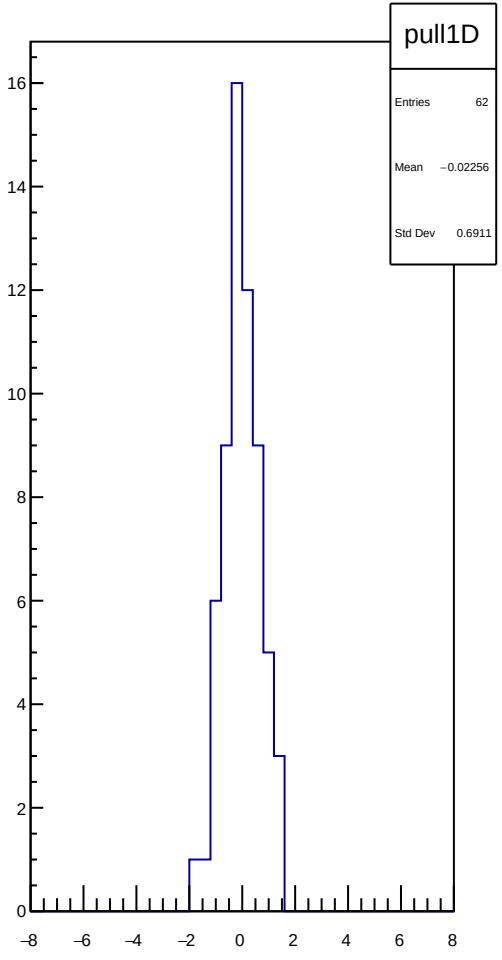

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 29.06 / 61
p0 −31.12 ± 1.012
pull
Entries 62
Mean 217.7
Std Dev 189.5

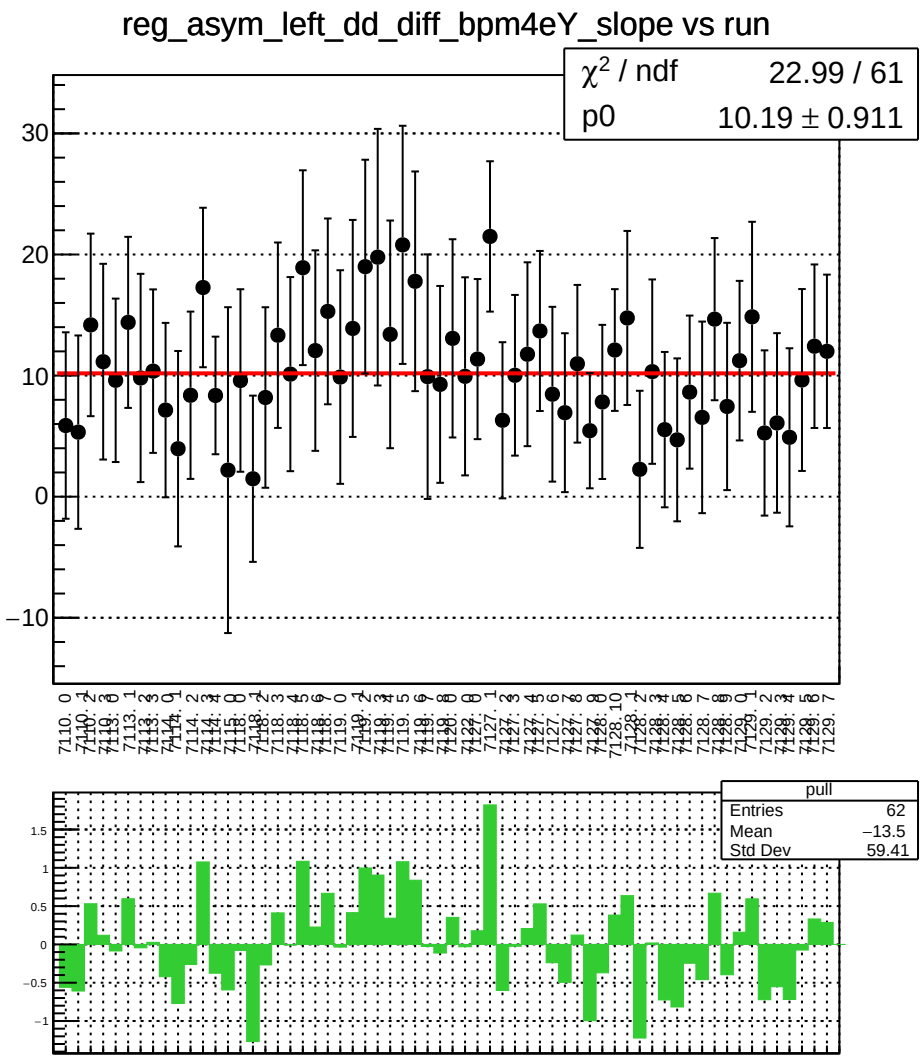

pull1D
Entries 62
Mean 0.0204
Std Dev 0.6843

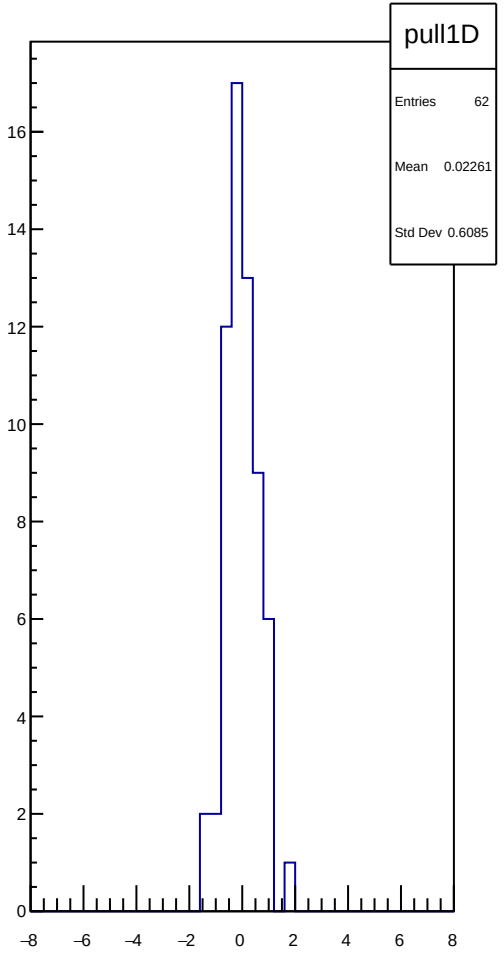

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.01 / 61
p0 0.3223 ± 0.8639
pull
Entries 62
Mean 68.06
Std Dev 66.79

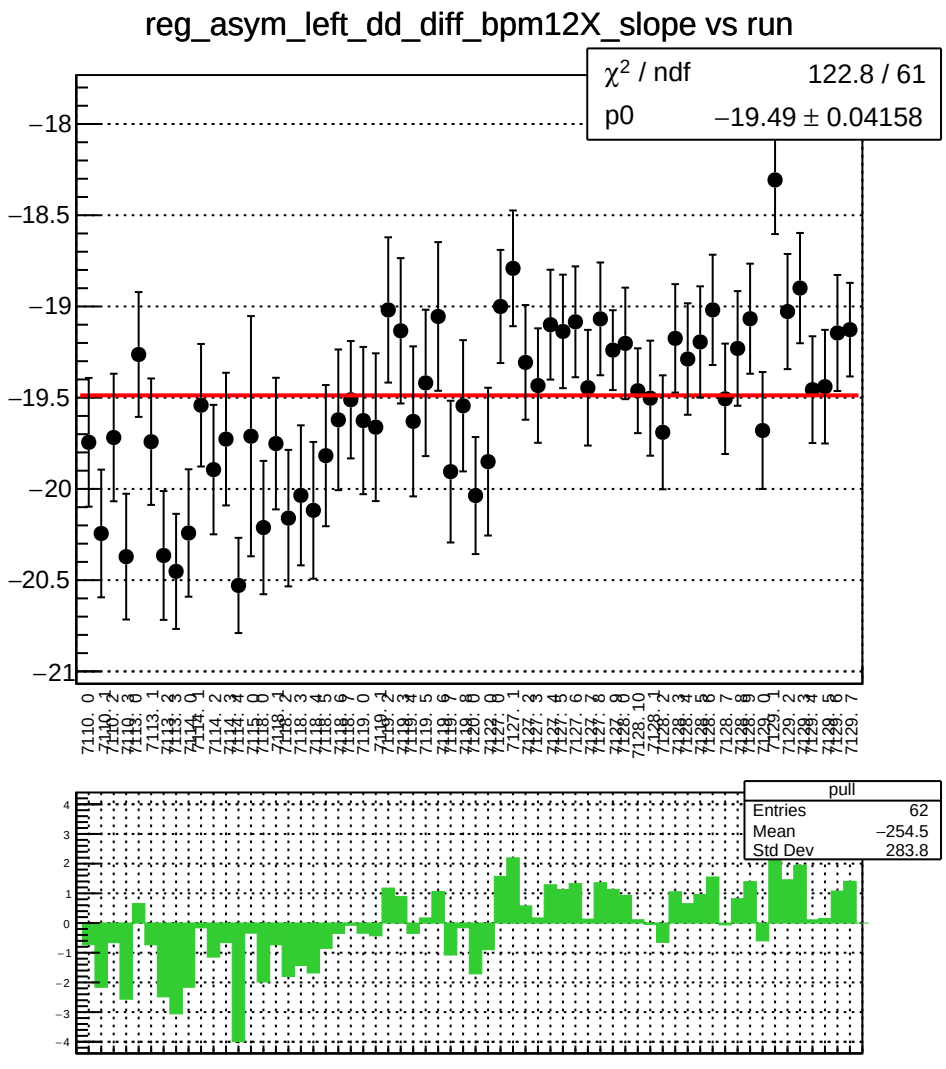

pull1D
Entries 62
Mean −0.01118
Std Dev 0.5957

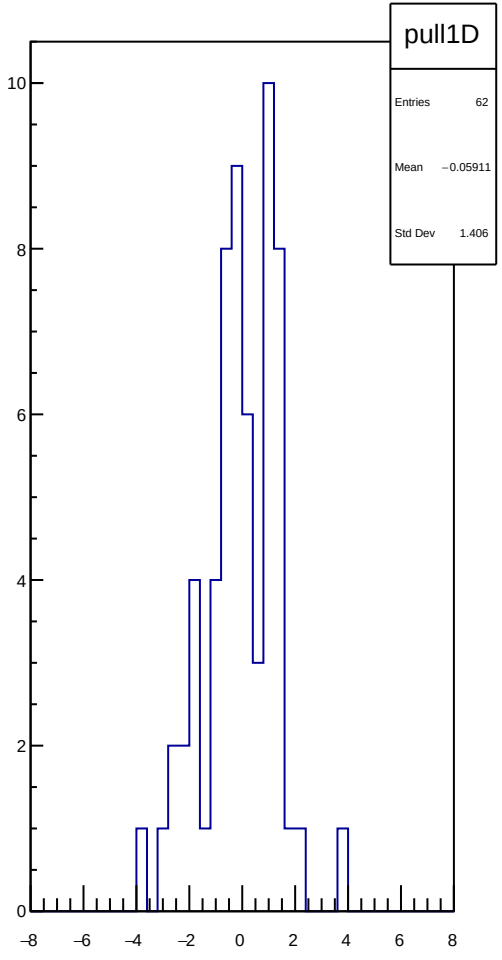

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.64 / 61
p0 1.581 ± 1.006
pull
Entries 62
Mean 213
Std Dev 184.8

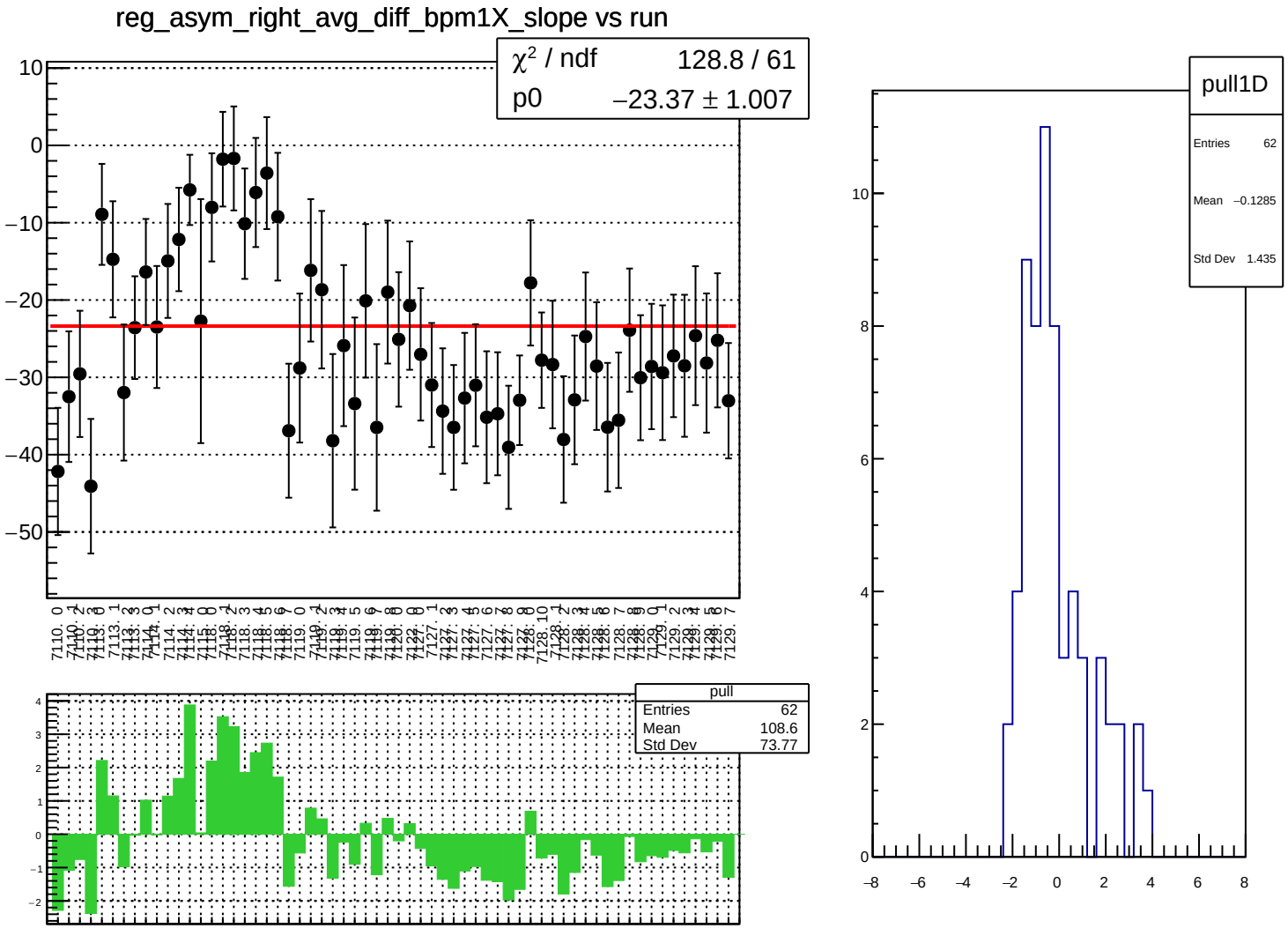

pull1D
Entries 62
Mean −0.02256
Std Dev 0.6911

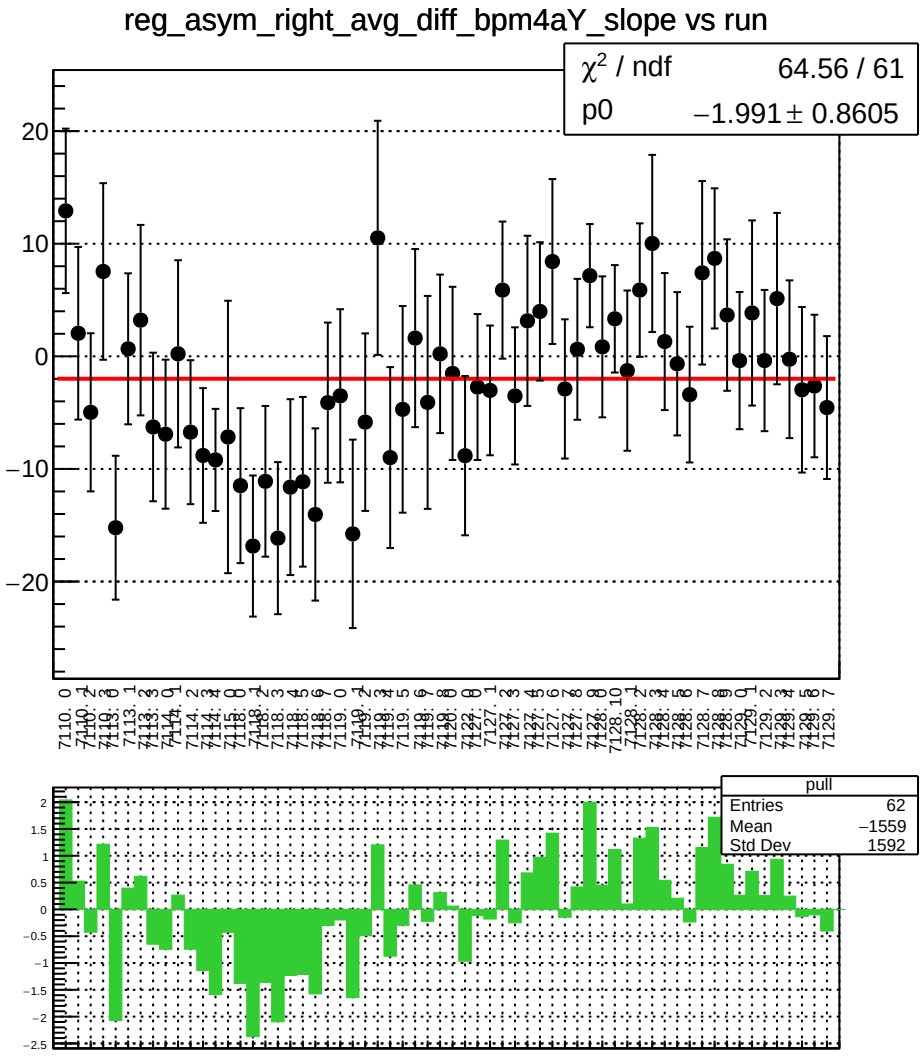

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.99 / 61
p0 10.19 ± 0.911
pull
Entries 62
Mean −13.5
Std Dev 59.41

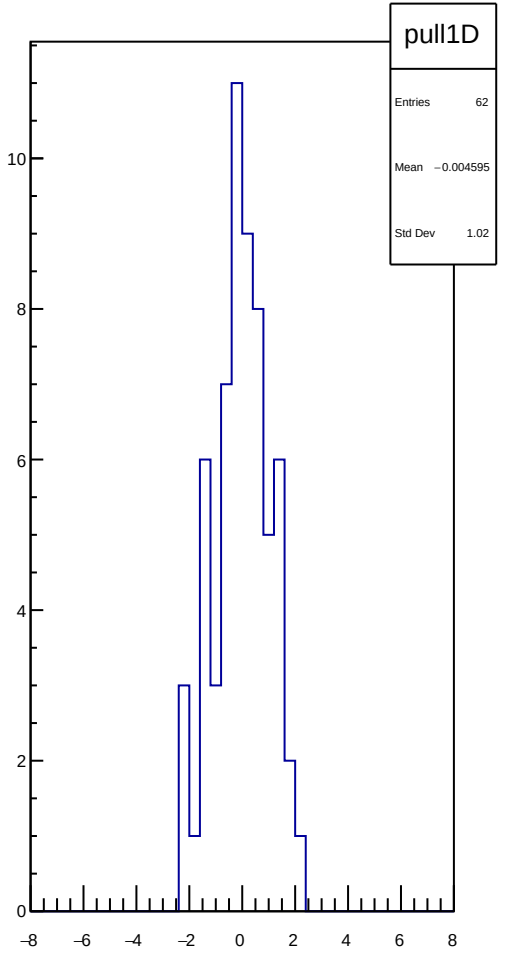

pull1D
Entries 62
Mean 0.02261
Std Dev 0.6085

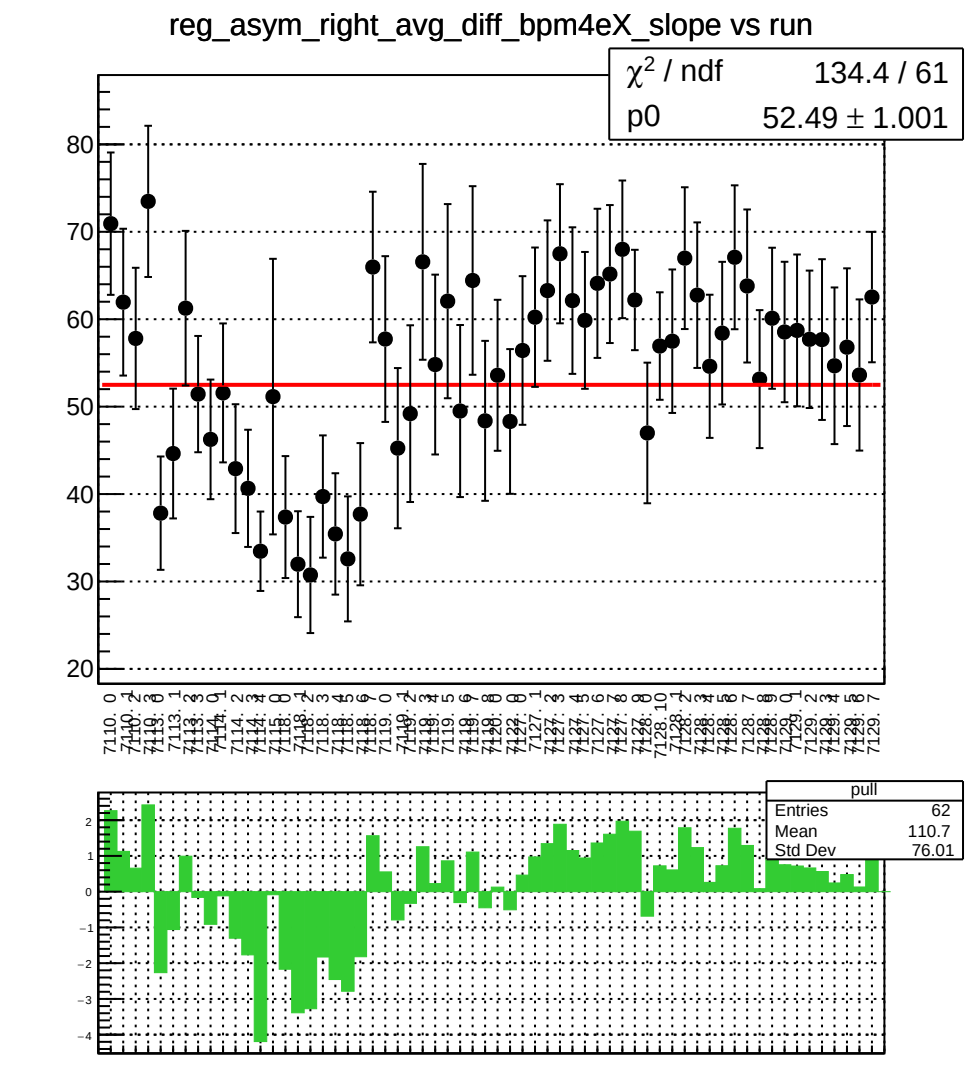

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 122.8 / 61
p0 −19.49 ± 0.04158
pull
Entries 62
Mean −254.5
Std Dev 283.8

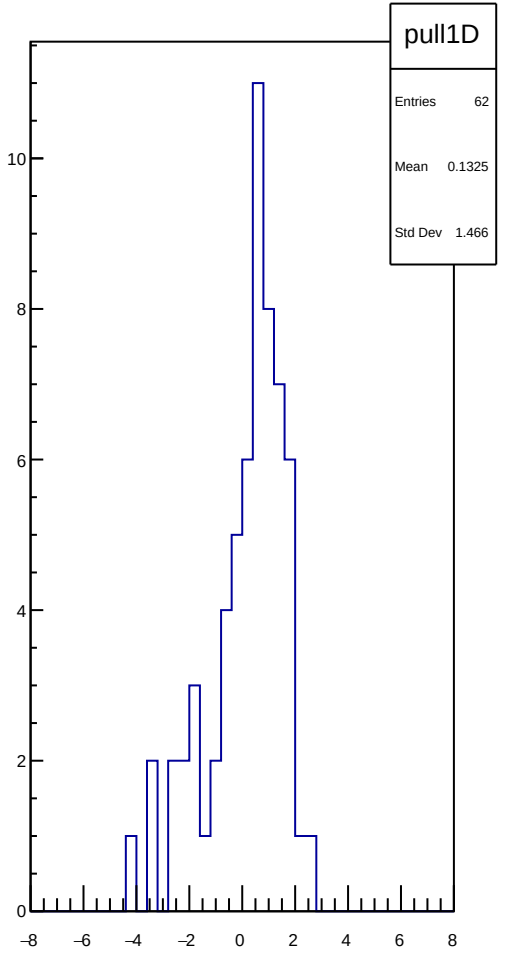

pull1D
Entries 62
Mean −0.05911
Std Dev 1.406

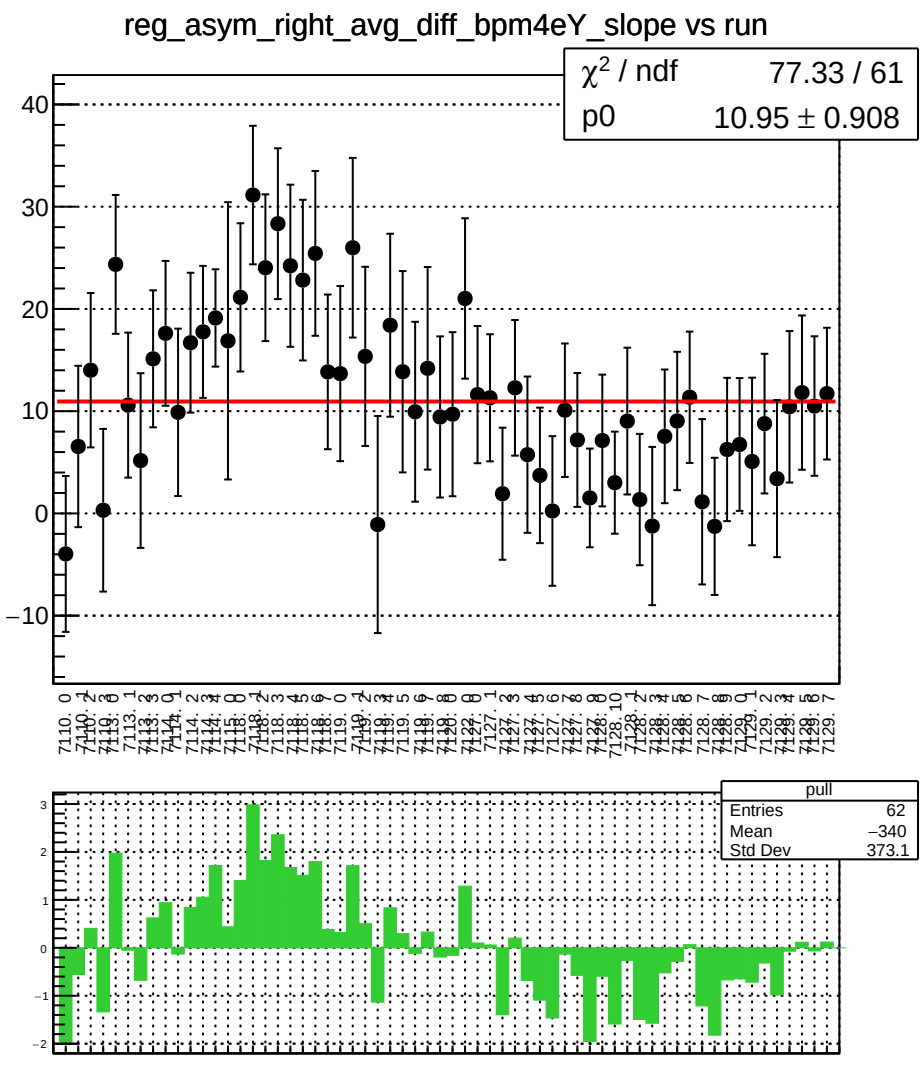

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 128.8 / 61
p0 −23.37 ± 1.007
pull
Entries 62
Mean 108.6
Std Dev 73.77
pull1D
Entries 62
Mean −0.1285
Std Dev 1.435

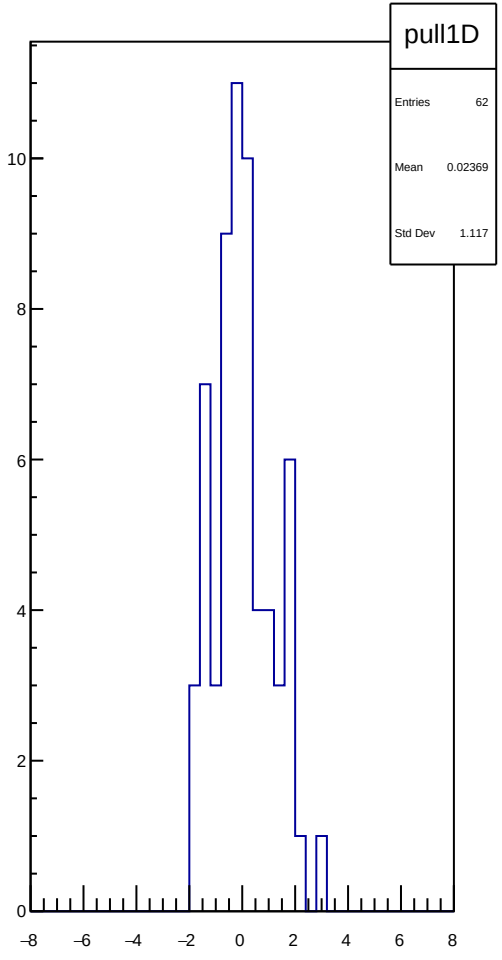

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 64.56 / 61
p0 −1.991 ± 0.8605
pull
Entries 62
Mean −1559
Std Dev 1592

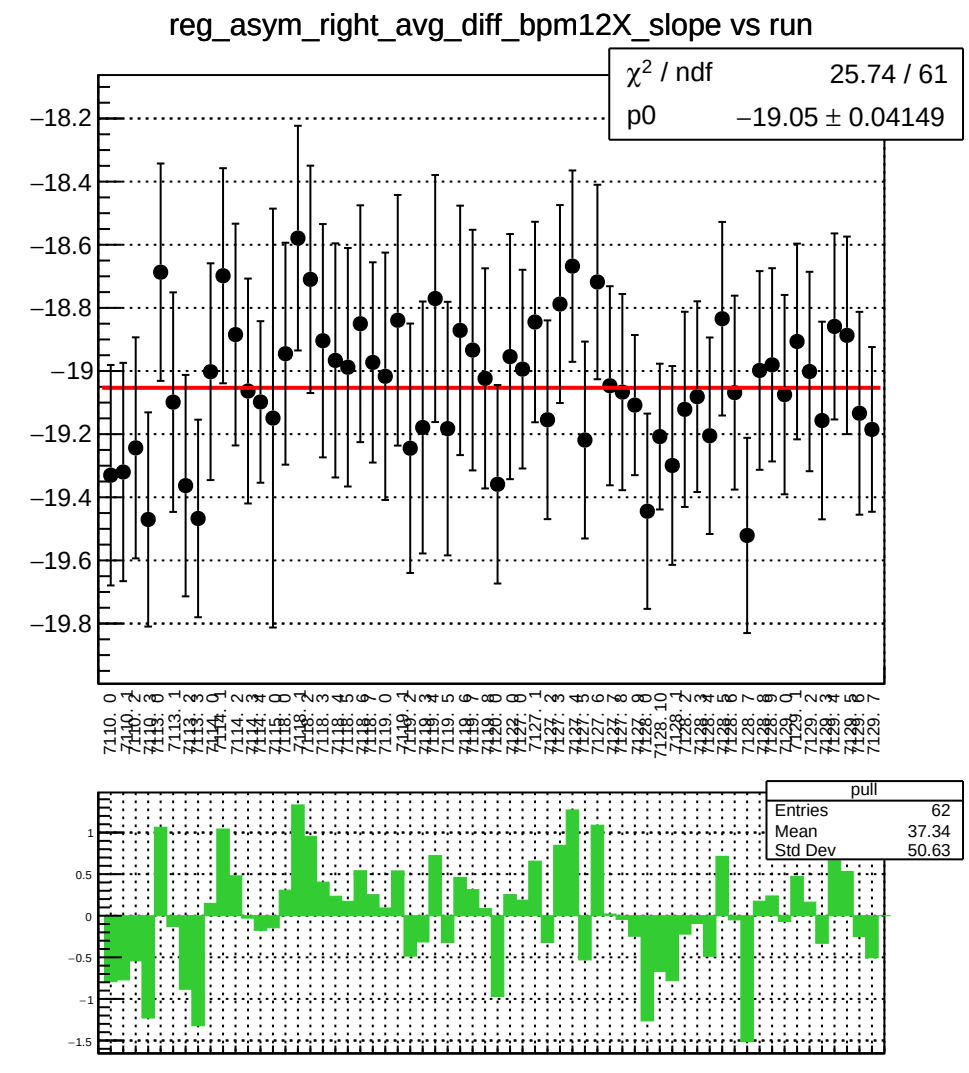

pull1D
Entries 62
Mean −0.004595
Std Dev 1.02

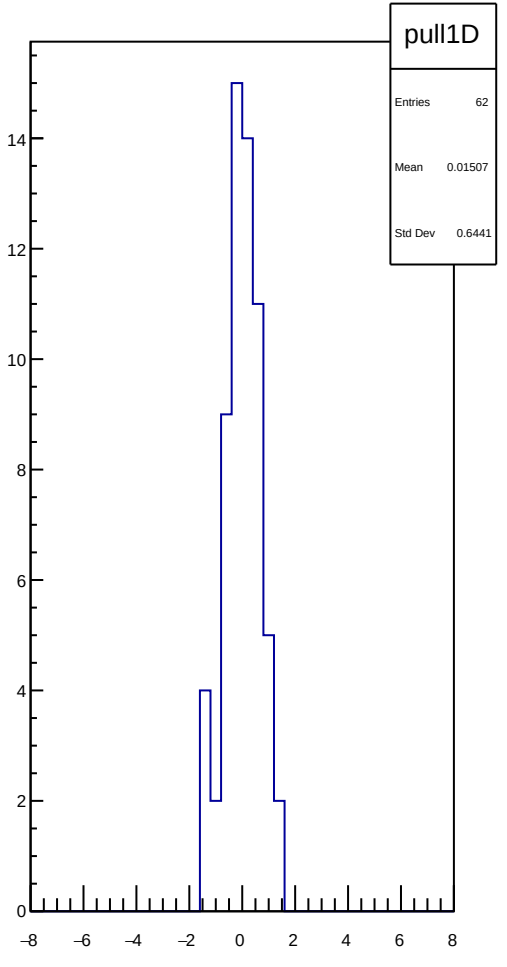

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 134.4 / 61
p0 52.49 ± 1.001
pull
Entries 62
Mean 110.7
Std Dev 76.01

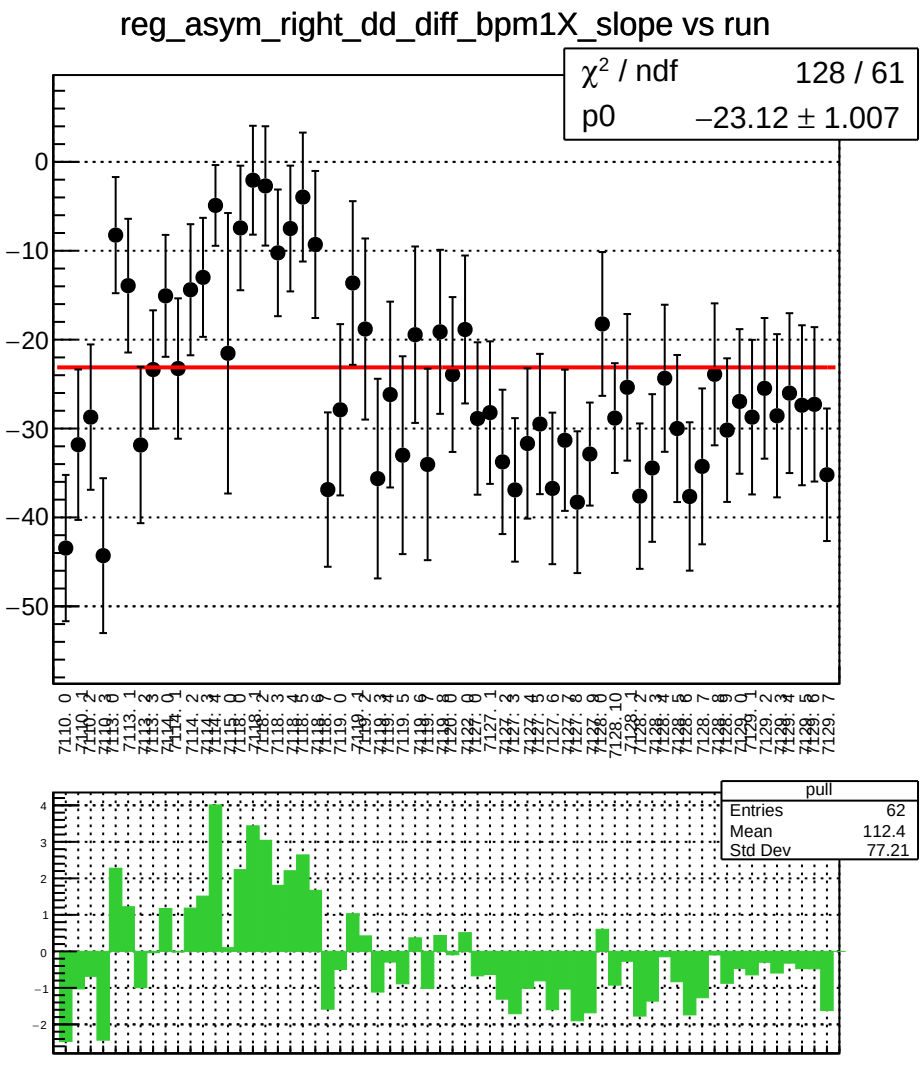

pull1D
Entries 62
Mean 0.1325
Std Dev 1.466

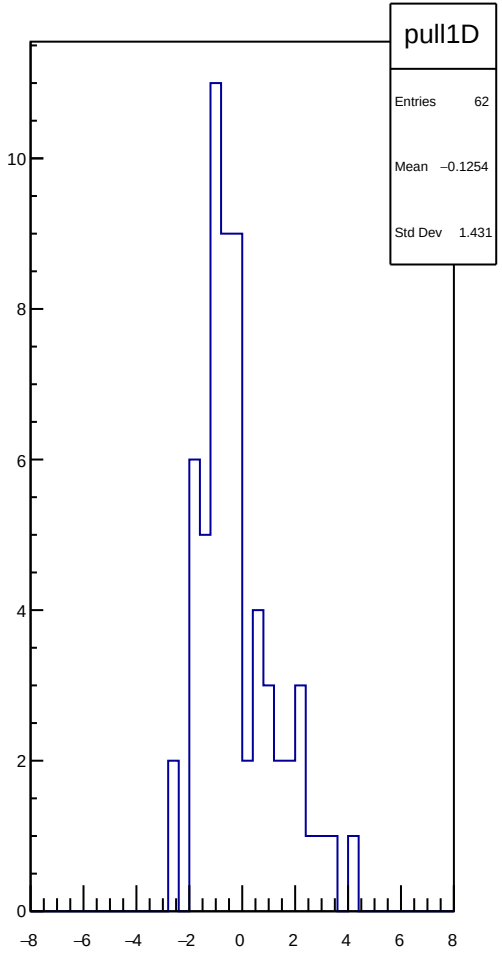

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.33 / 61
p0 10.95 ± 0.908
pull
Entries 62
Mean −340
Std Dev 373.1

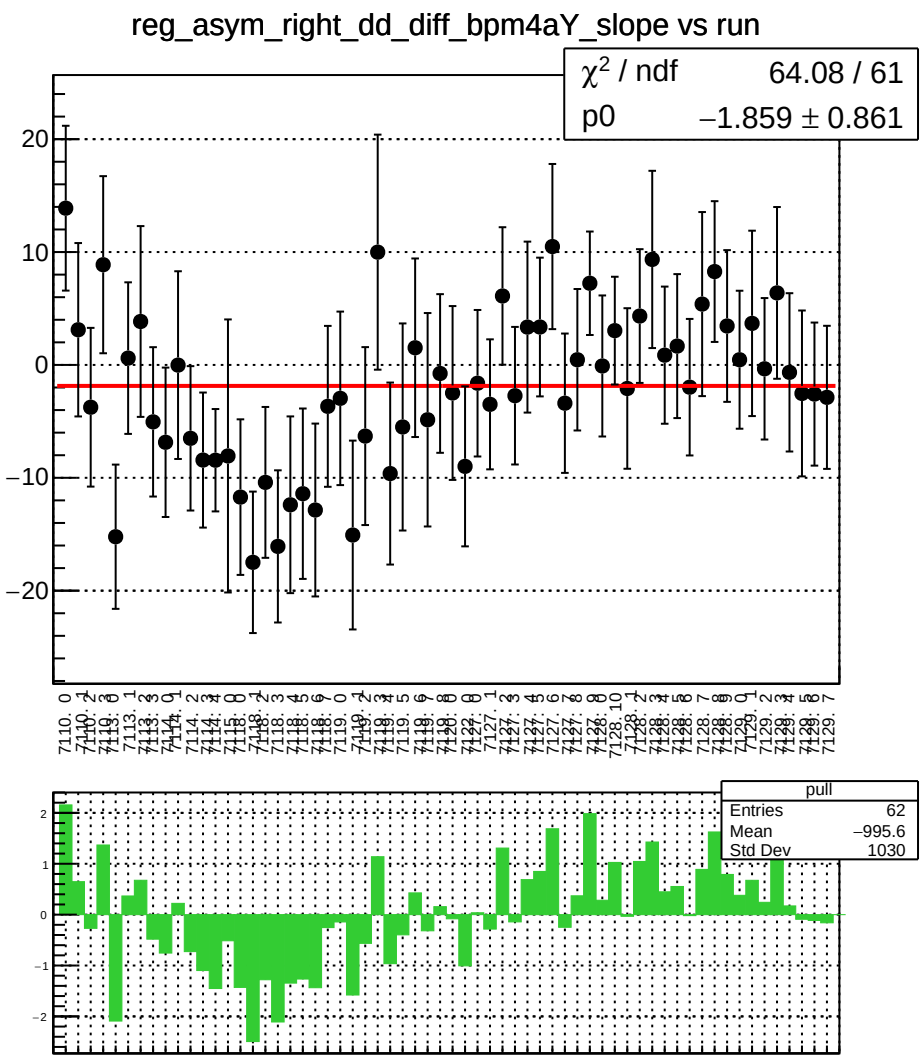

pull1D
Entries 62
Mean 0.02369
Std Dev 1.117

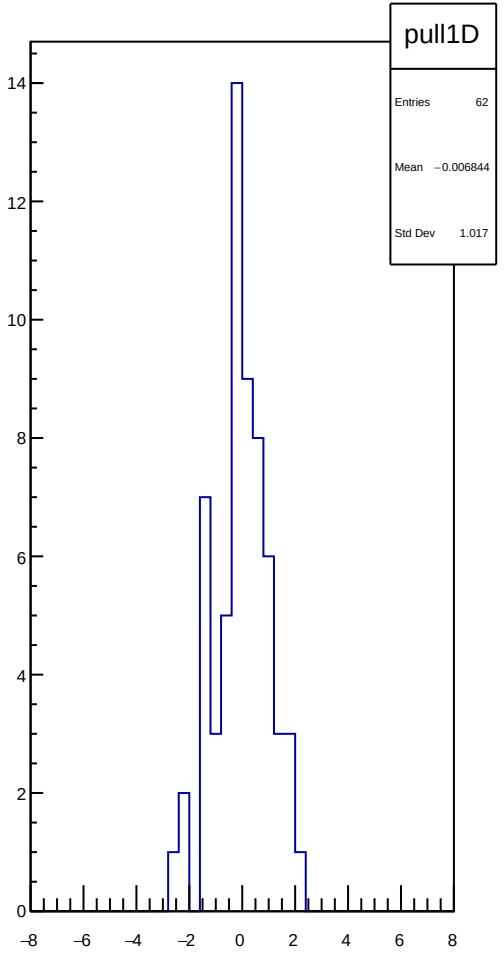

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 25.74 / 61
p0 −19.05 ± 0.04149
pull
Entries 62
Mean 37.34
Std Dev 50.63

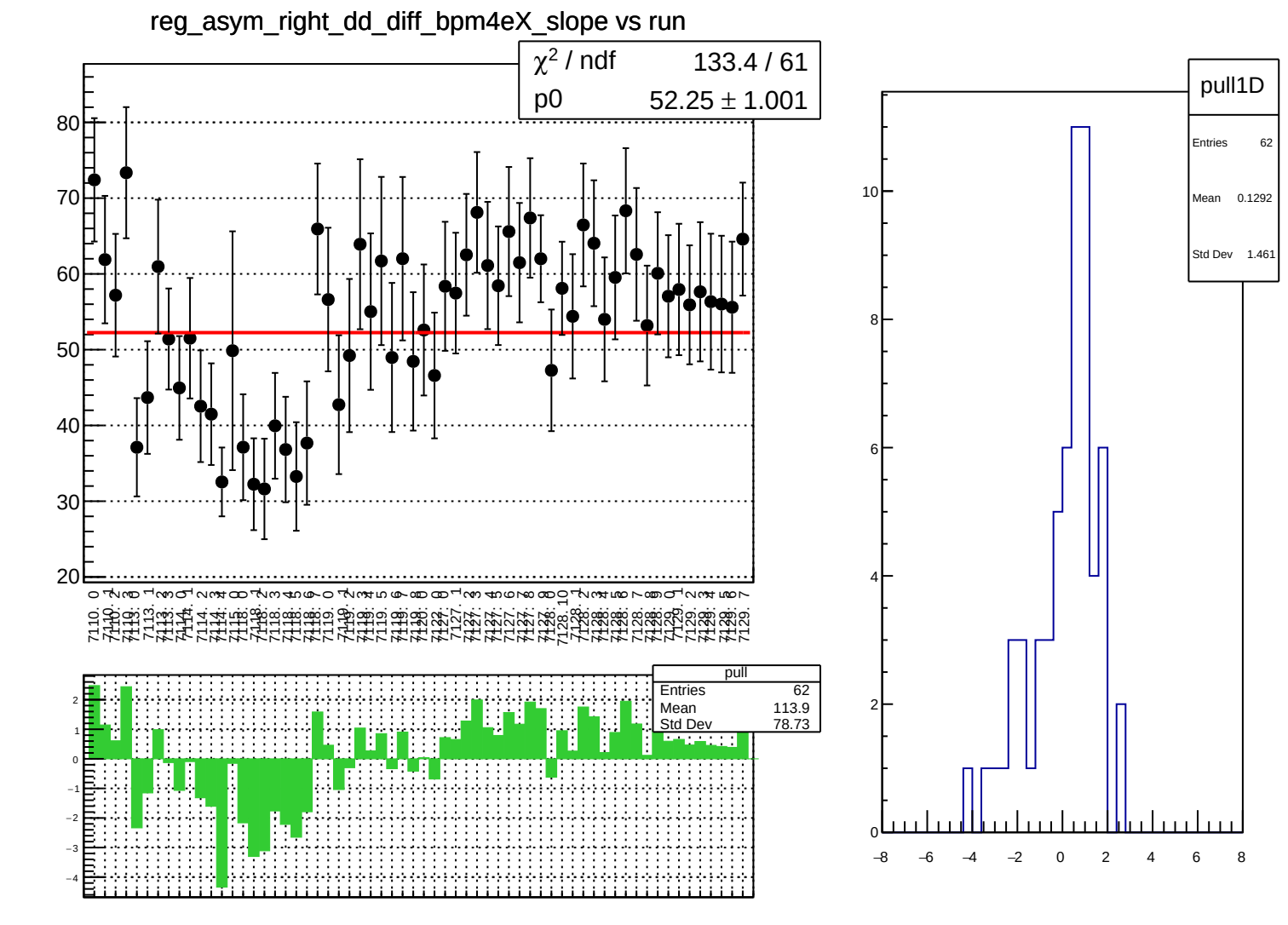

pull1D
Entries 62
Mean 0.01507
Std Dev 0.6441

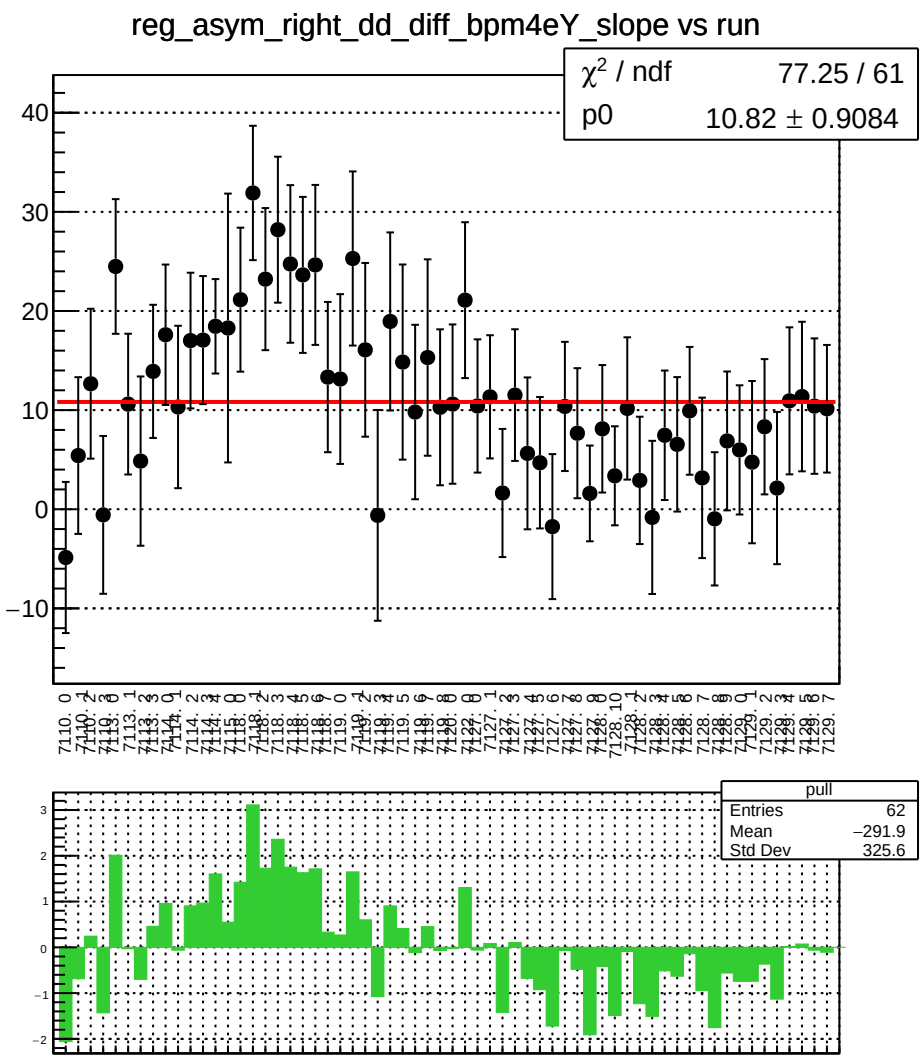

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 128 / 61
p0 −23.12 ± 1.007
pull
Entries 62
Mean 112.4
Std Dev 77.21

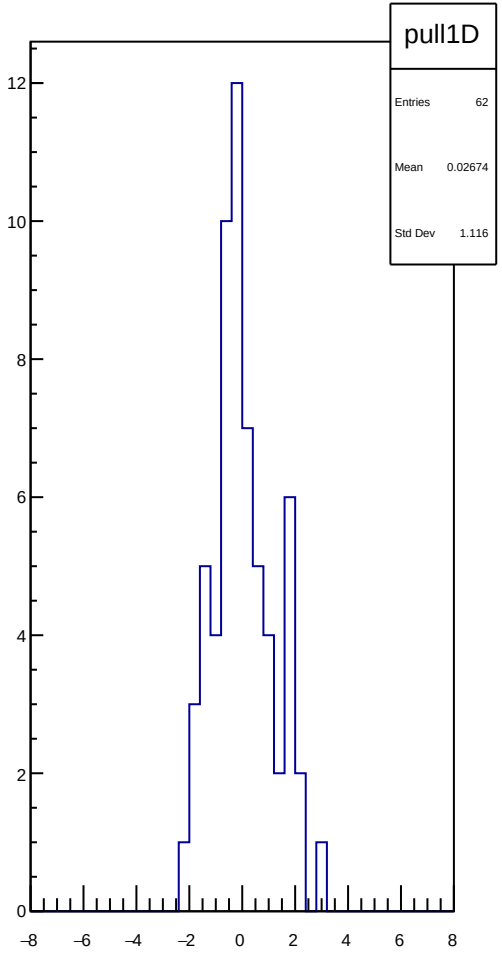

pull1D
Entries 62
Mean −0.1254
Std Dev 1.431

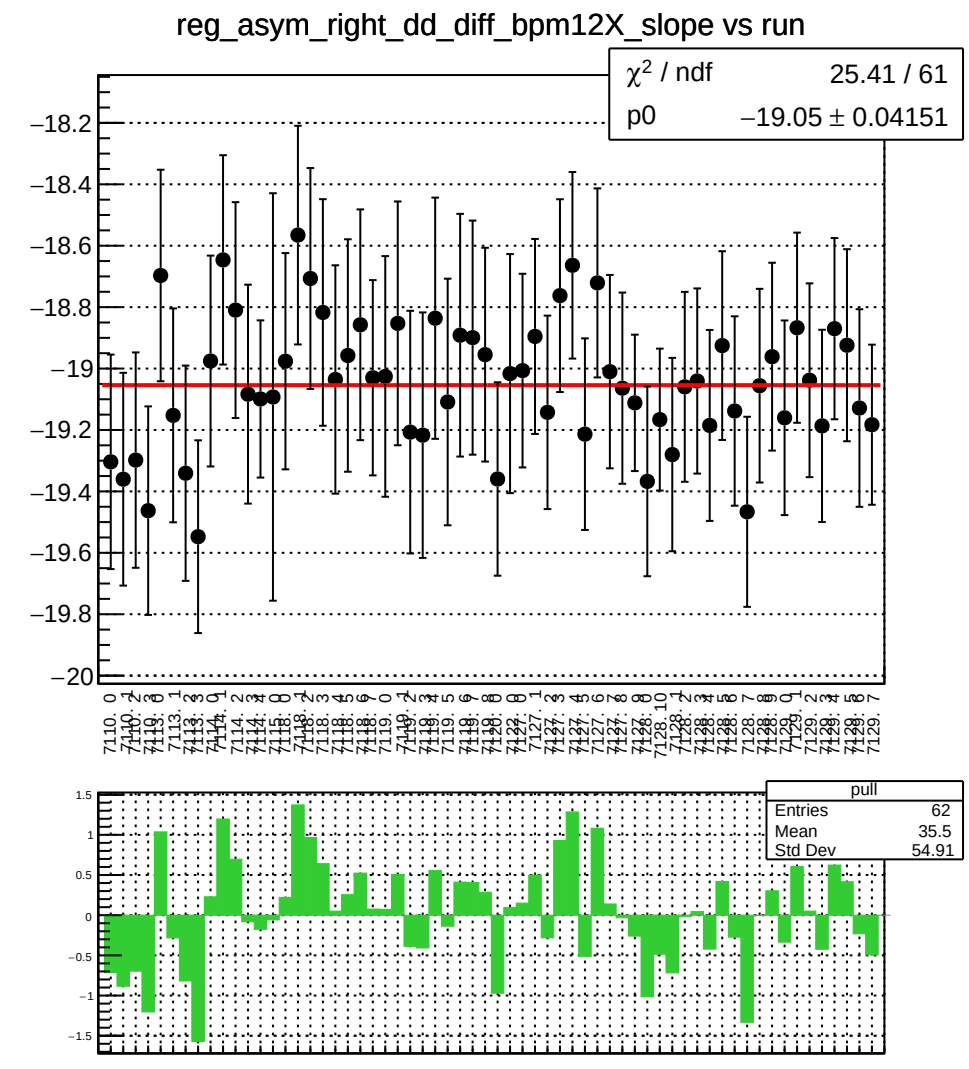

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.08 / 61
p0 −1.859 ± 0.861
pull
Entries 62
Mean −995.6
Std Dev 1030

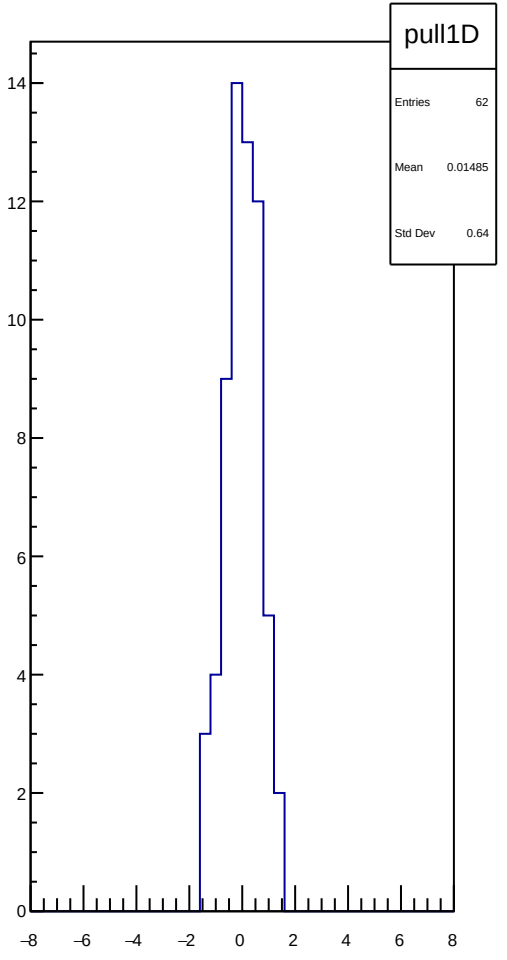

pull1D
Entries 62
Mean −0.006844
Std Dev 1.017

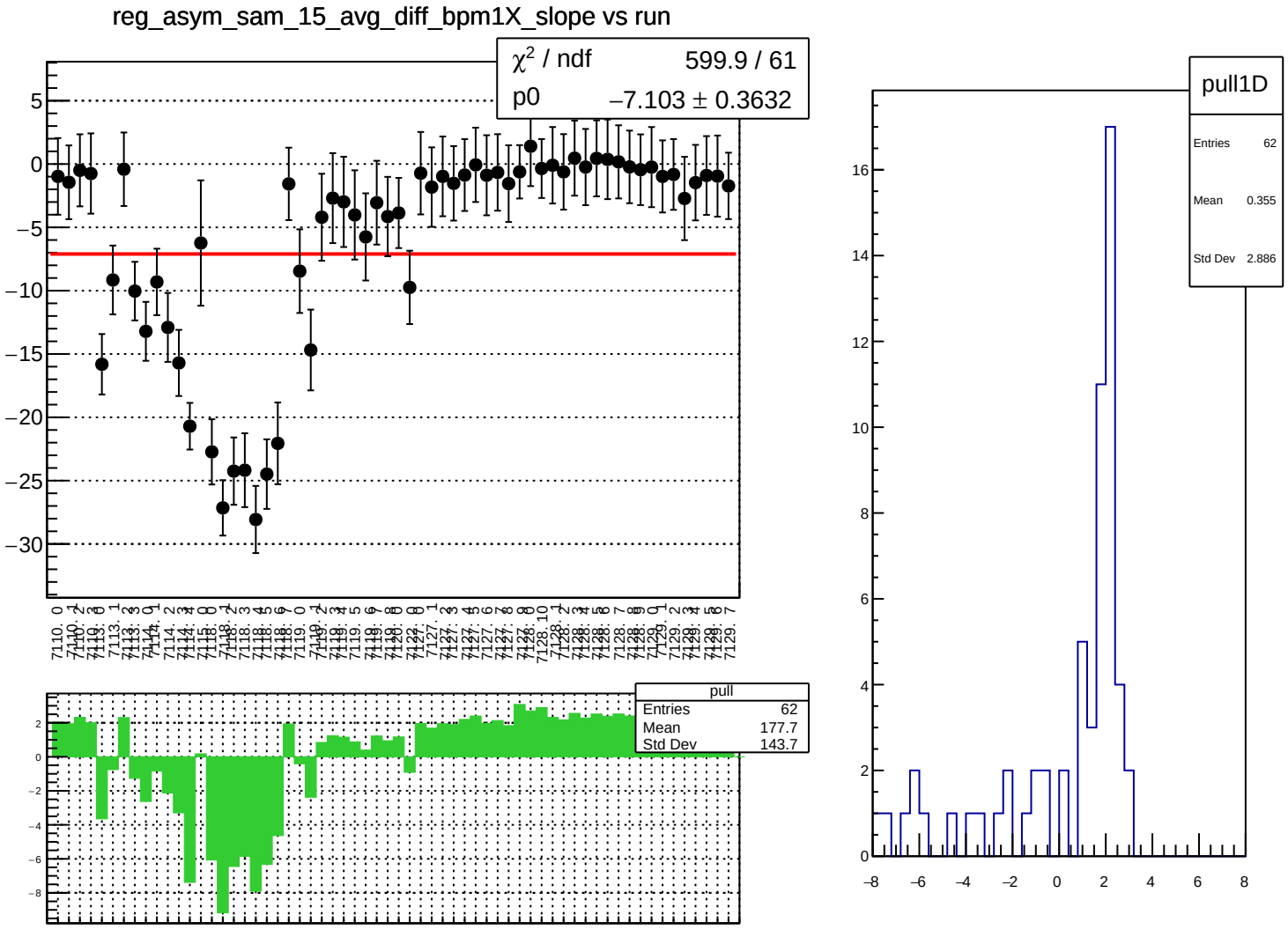

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 133.4 / 61
p0 52.25 ± 1.001
pull
Entries 62
Mean 113.9
Std Dev 78.73
pull1D
Entries 62
Mean 0.1292
Std Dev 1.461

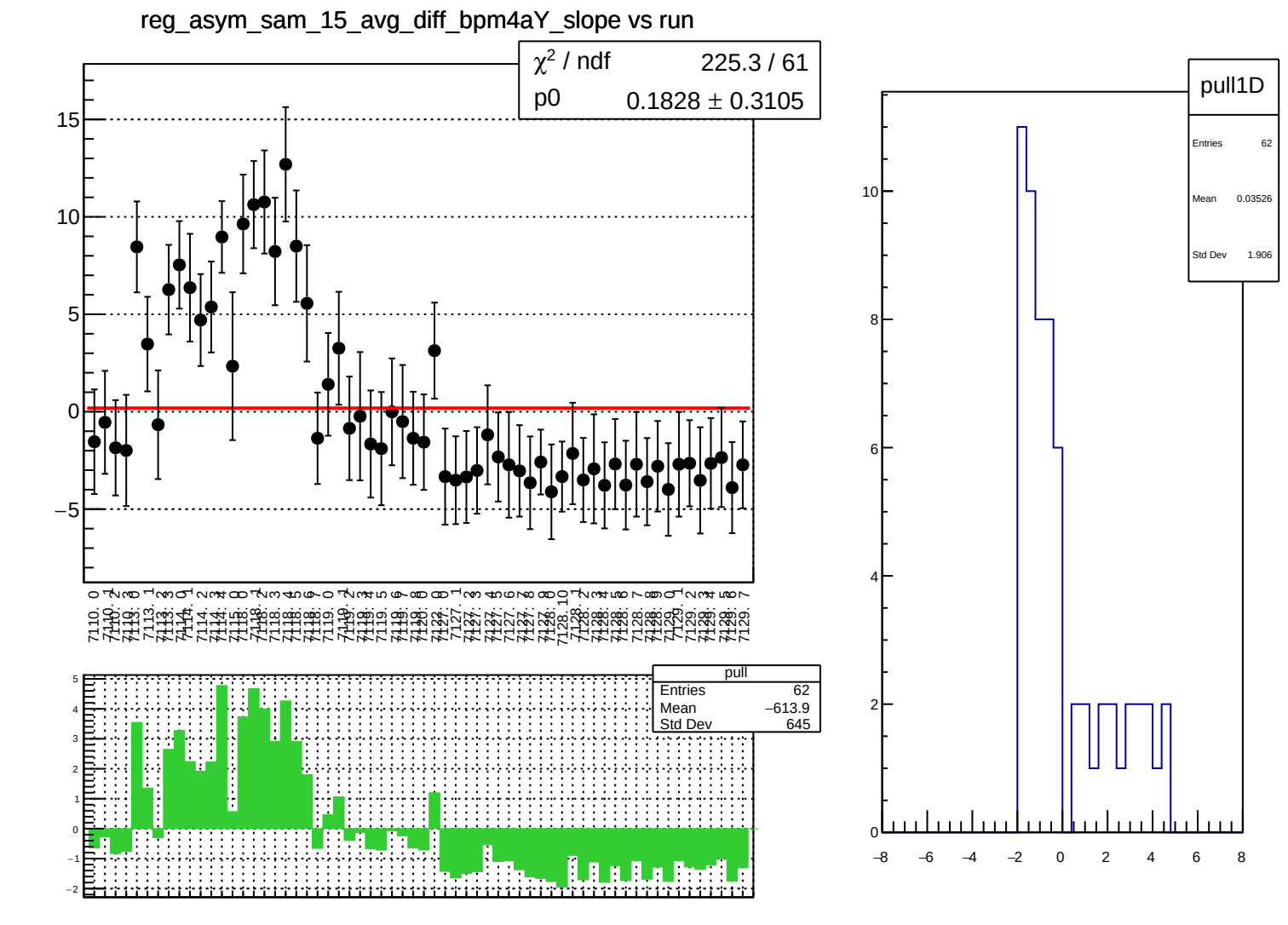

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.25 / 61
p0 10.82 ± 0.9084
pull
Entries 62
Mean −291.9
Std Dev 325.6

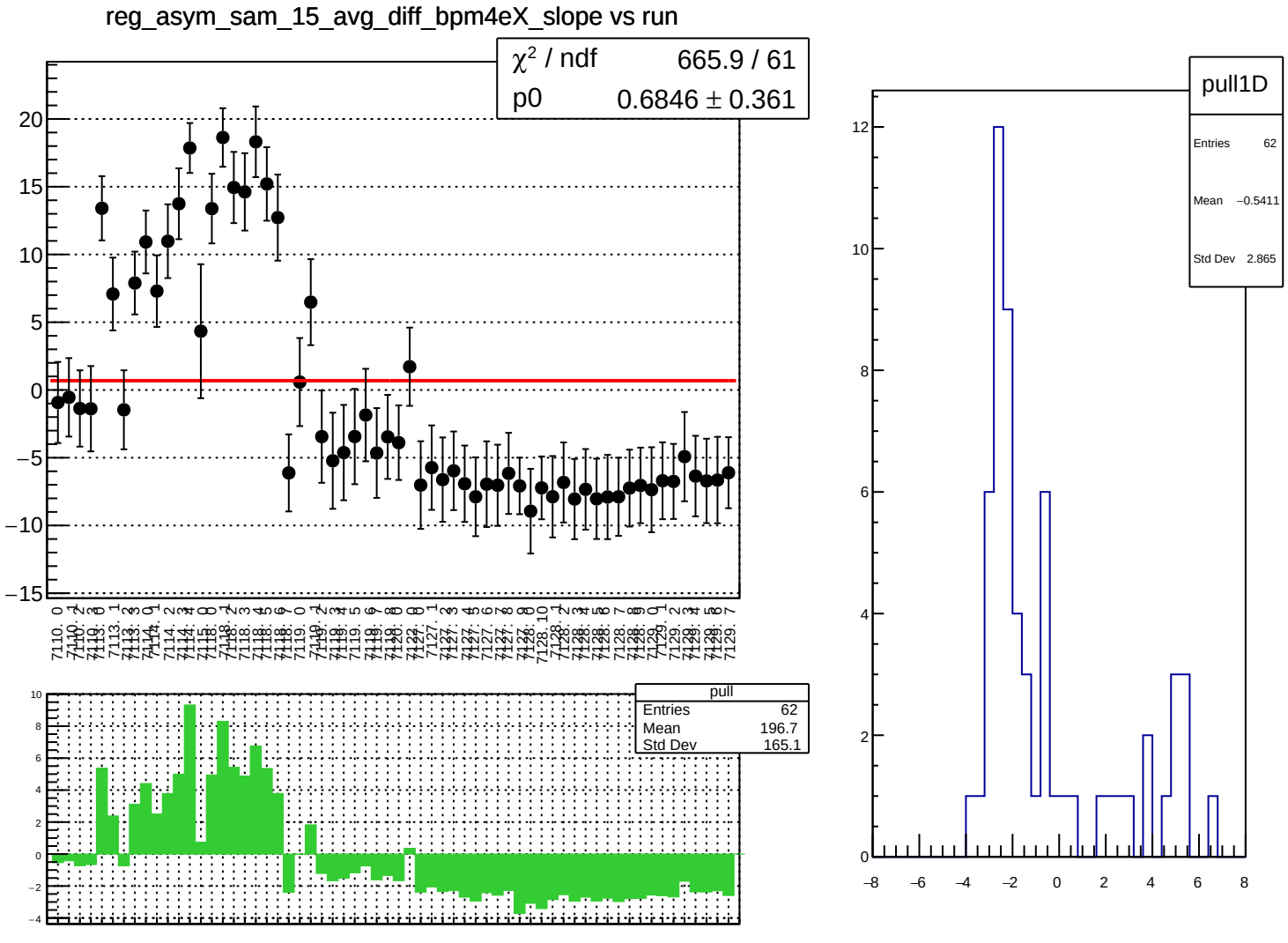

pull1D
Entries 62
Mean 0.02674
Std Dev 1.116

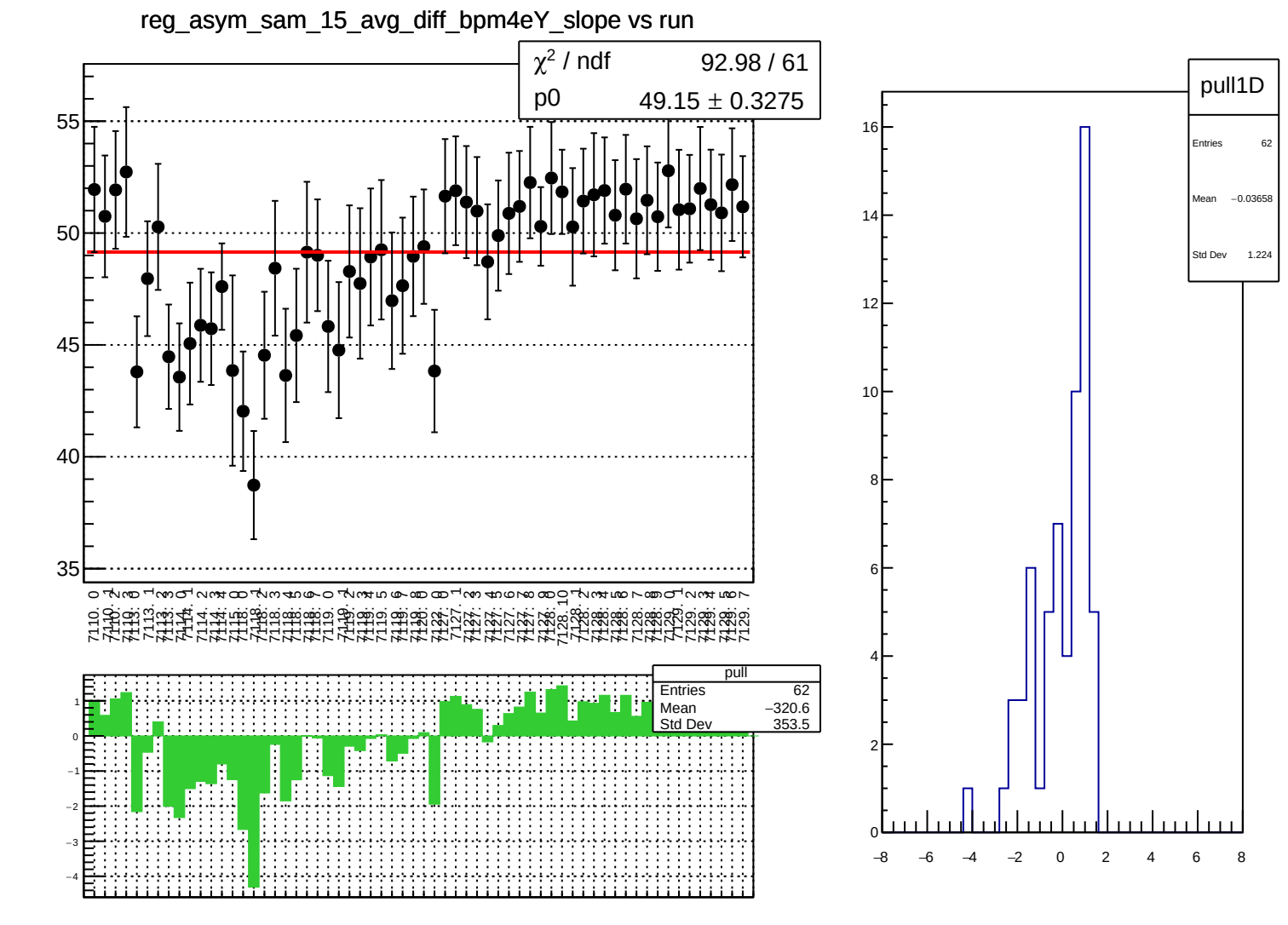

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 25.41 / 61
p0 −19.05 ± 0.04151
pull
Entries 62
Mean 35.5
Std Dev 54.91

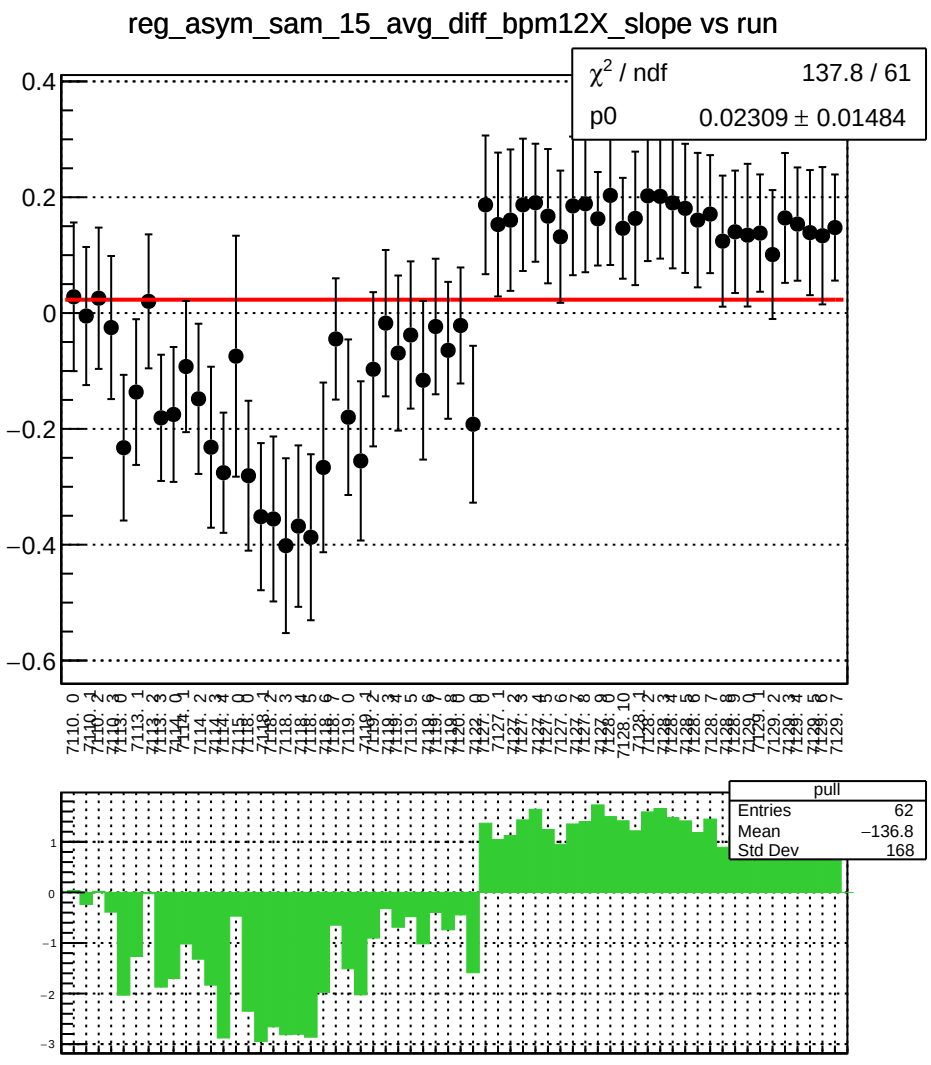

pull1D
Entries 62
Mean 0.01485
Std Dev 0.64

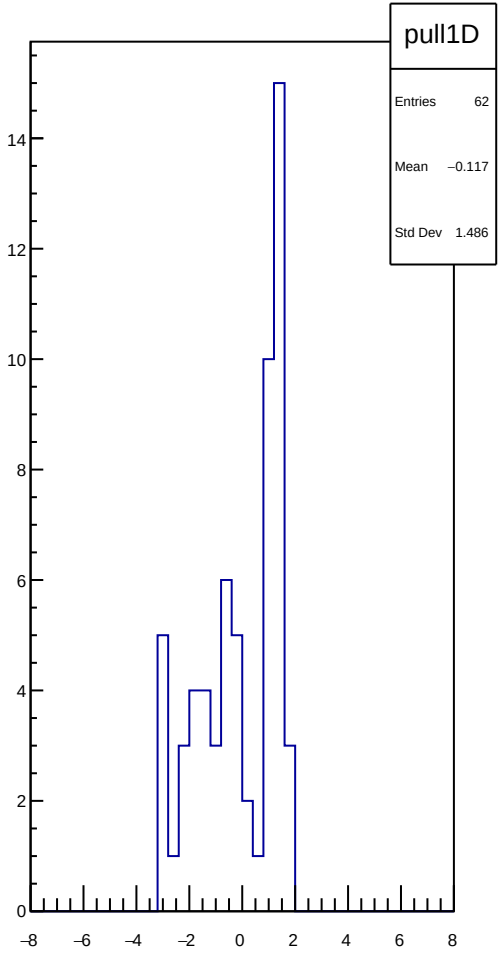

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 599.9 / 61
p0 −7.103 ± 0.3632
pull
Entries 62
Mean 177.7
Std Dev 143.7
pull1D
Entries 62
Mean 0.355
Std Dev 2.886

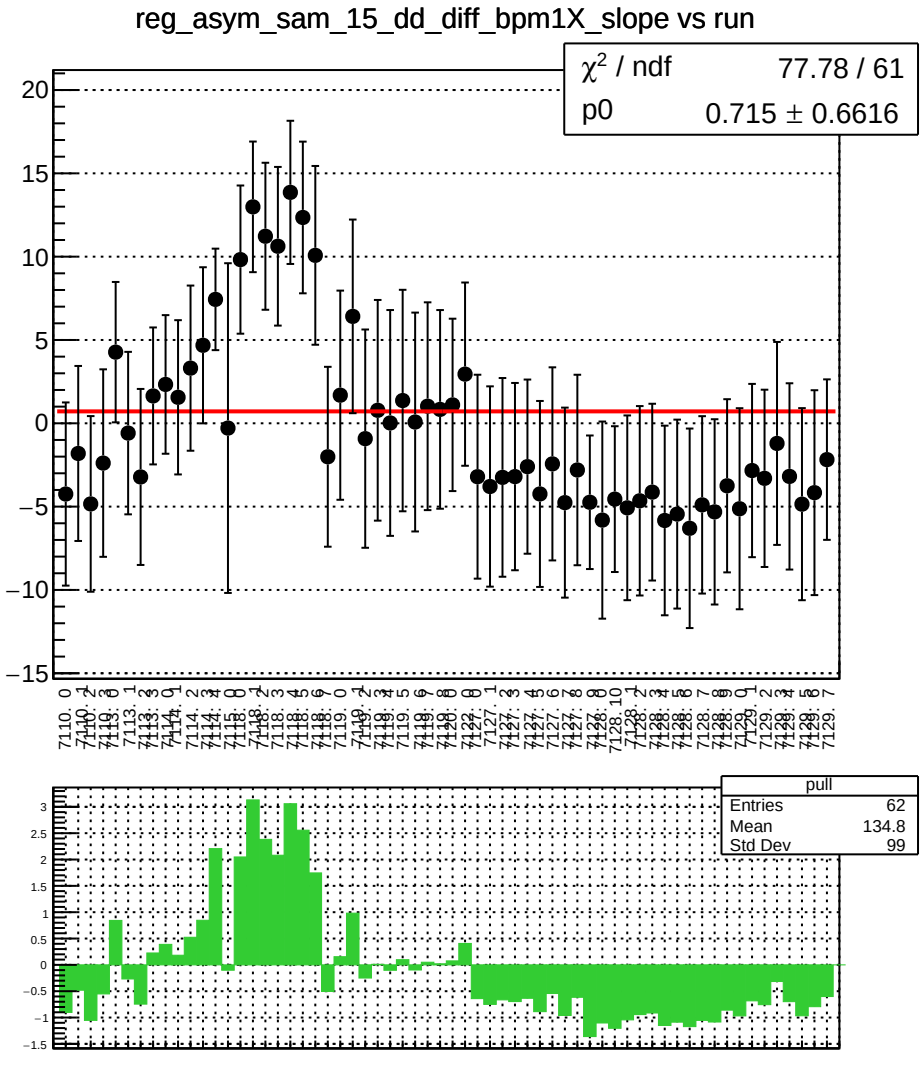

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 225.3 / 61
p0 0.1828 ± 0.3105
pull
Entries 62
Mean −613.9
Std Dev 645
pull1D
Entries 62
Mean 0.03526
Std Dev 1.906

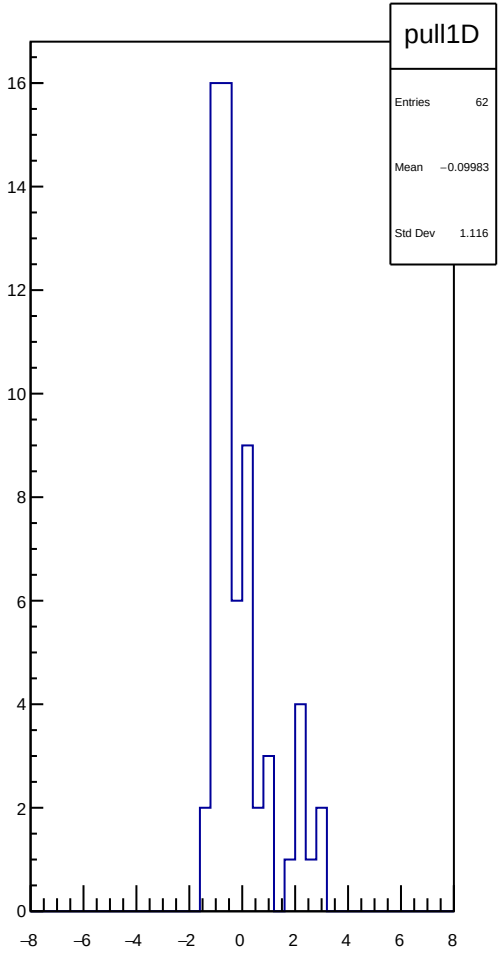

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 665.9 / 61
p0 0.6846 ± 0.361
pull
Entries 62
Mean 196.7
Std Dev 165.1
pull1D
Entries 62
Mean −0.5411
Std Dev 2.865

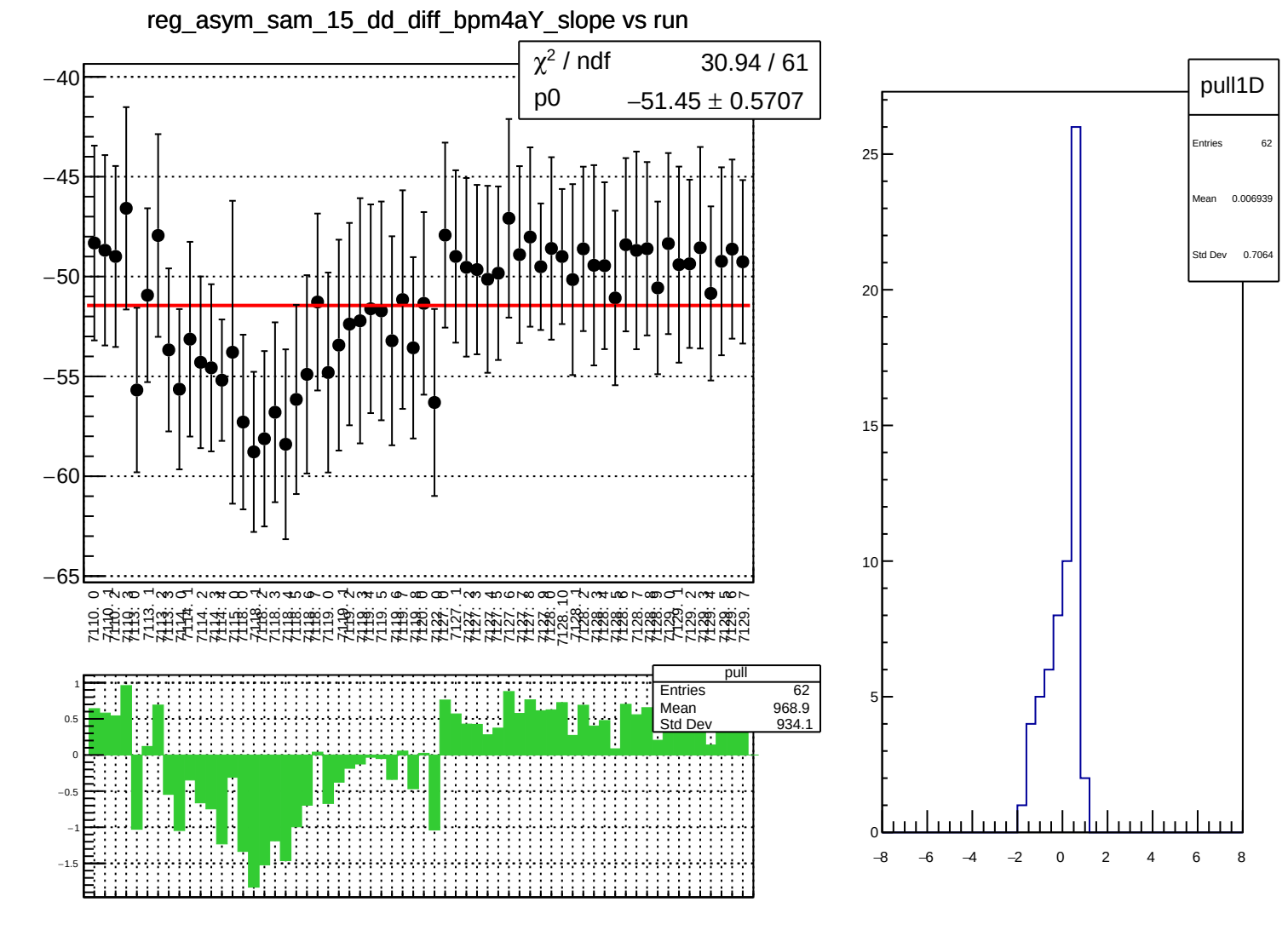

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 92.98 / 61
p0 49.15 ± 0.3275
pull
Entries 62
Mean −320.6
Std Dev 353.5
pull1D
Entries 62
Mean −0.03658
Std Dev 1.224

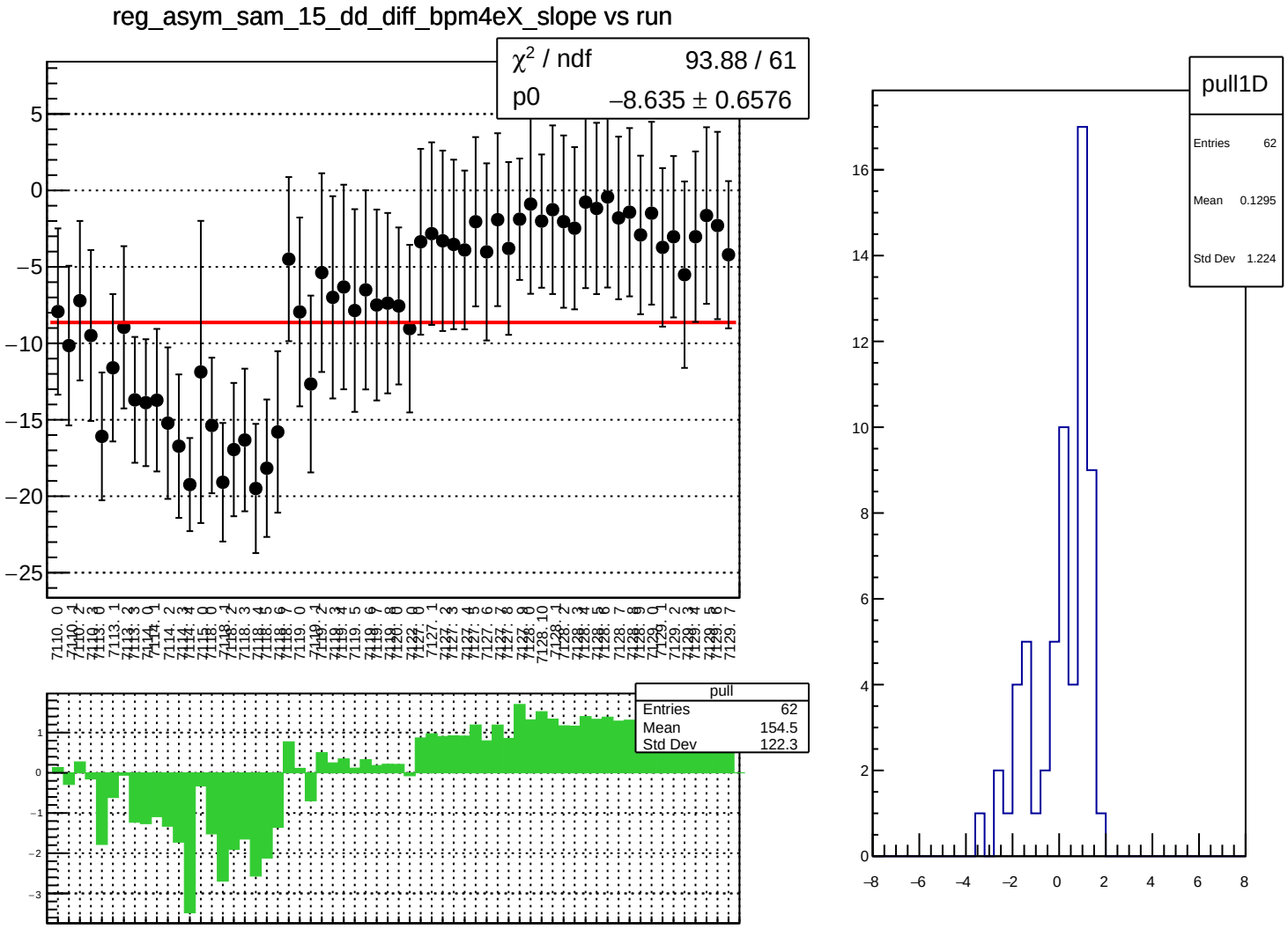

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 137.8 / 61
p0 0.02309 ± 0.01484
pull
Entries 62
Mean −136.8
Std Dev 168

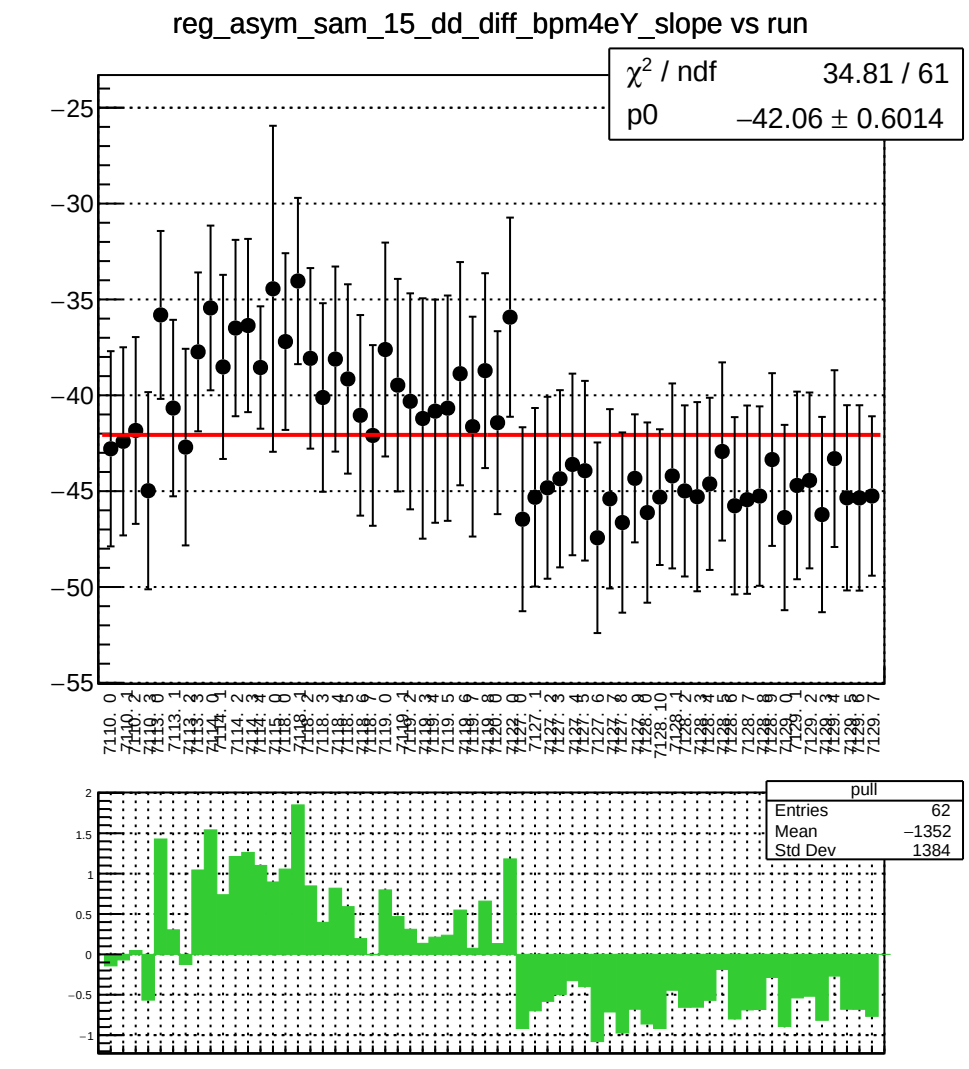

pull1D
Entries 62
Mean −0.117
Std Dev 1.486

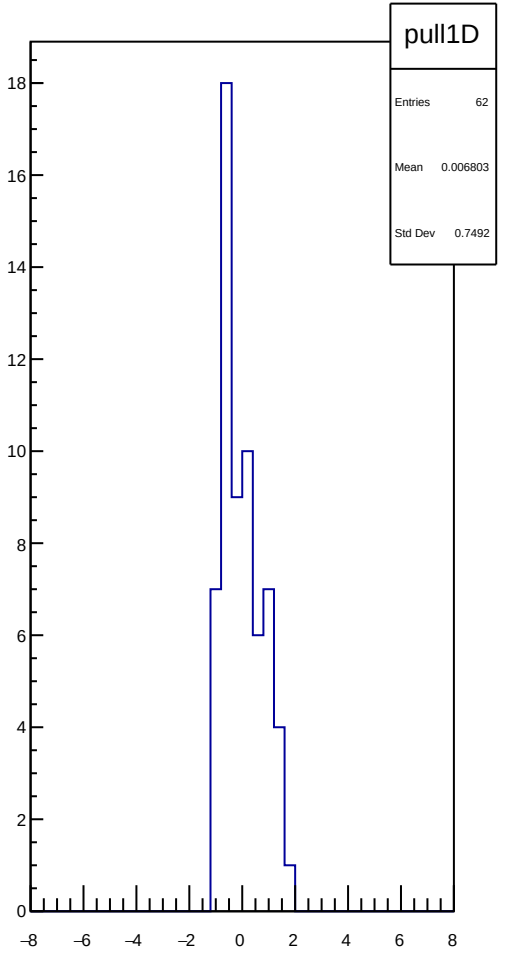

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 77.78 / 61
p0 0.715 ± 0.6616
pull
Entries 62
Mean 134.8
Std Dev 99

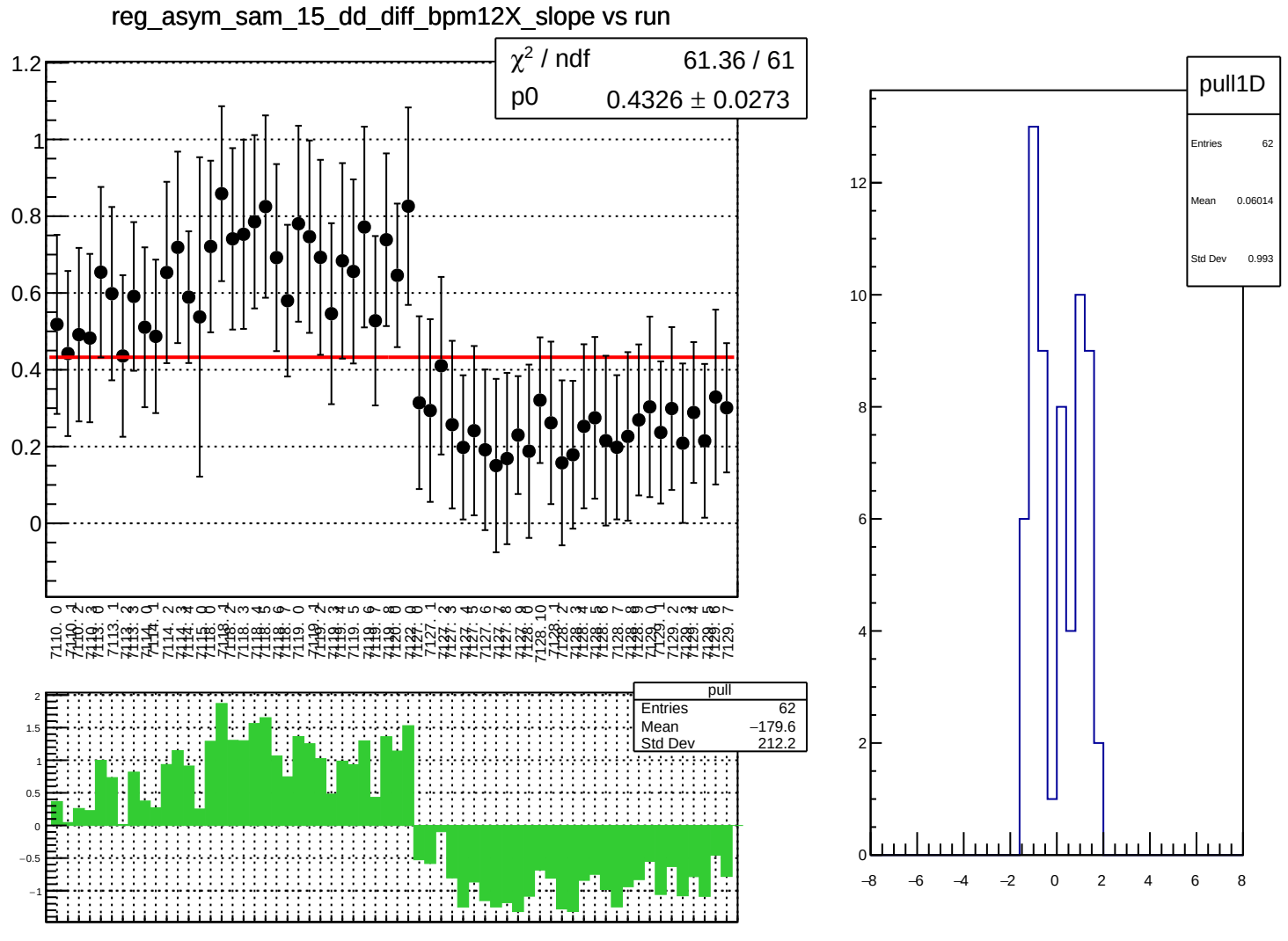

pull1D
Entries 62
Mean −0.09983
Std Dev 1.116

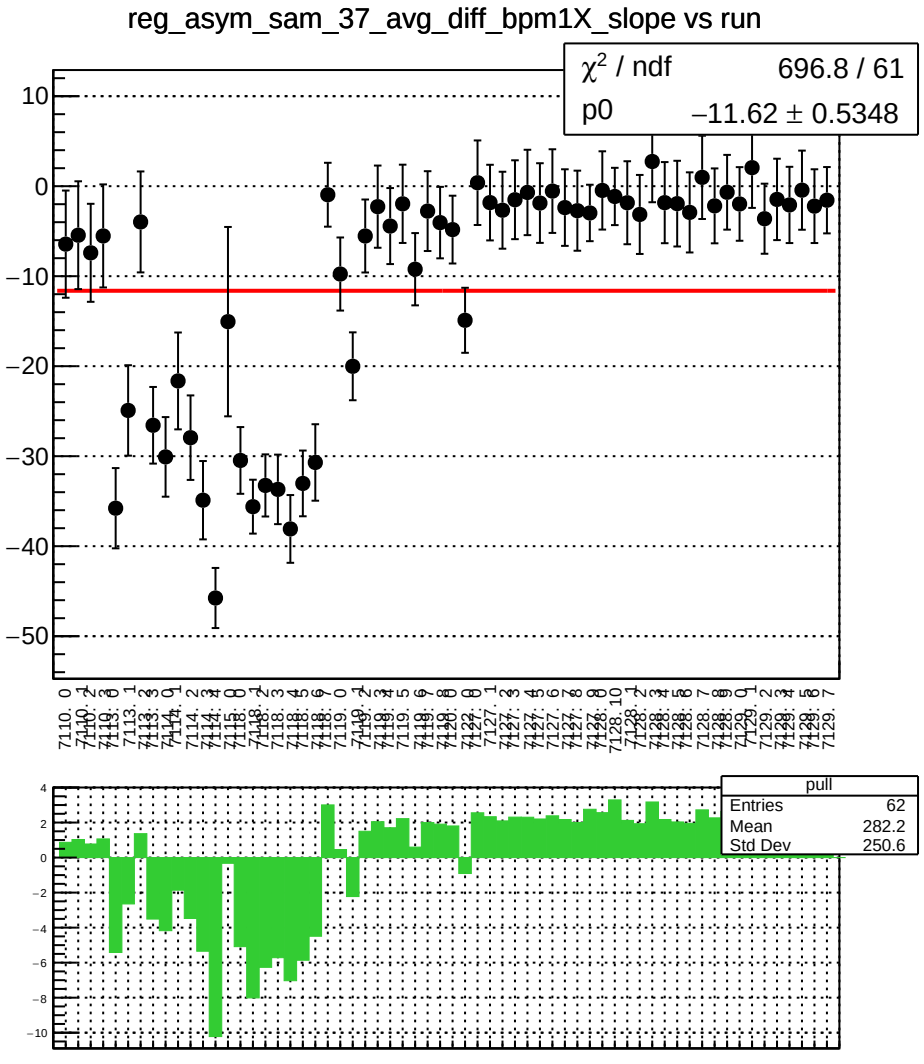

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.94 / 61
p0 −51.45 ± 0.5707
pull
Entries 62
Mean 968.9
Std Dev 934.1
pull1D
Entries 62
Mean 0.006939
Std Dev 0.7064

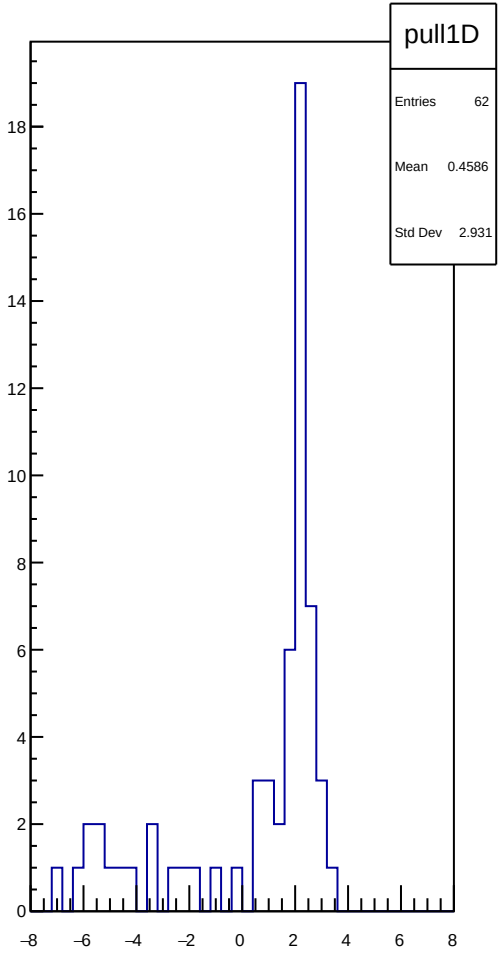

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 93.88 / 61
p0 −8.635 ± 0.6576
pull
Entries 62
Mean 154.5
Std Dev 122.3
pull1D
Entries 62
Mean 0.1295
Std Dev 1.224

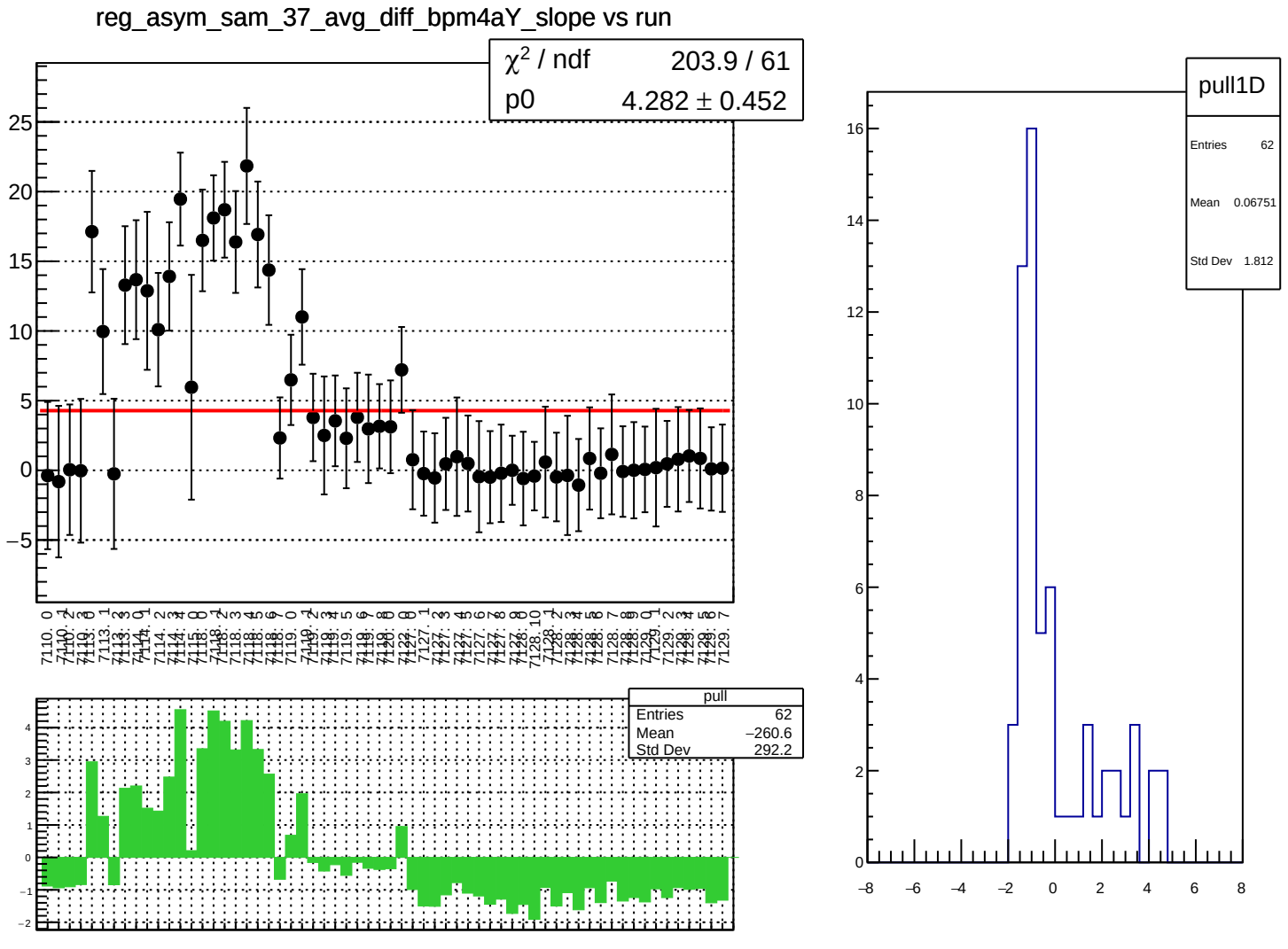

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.81 / 61
p0 −42.06 ± 0.6014
pull
Entries 62
Mean −1352
Std Dev 1384

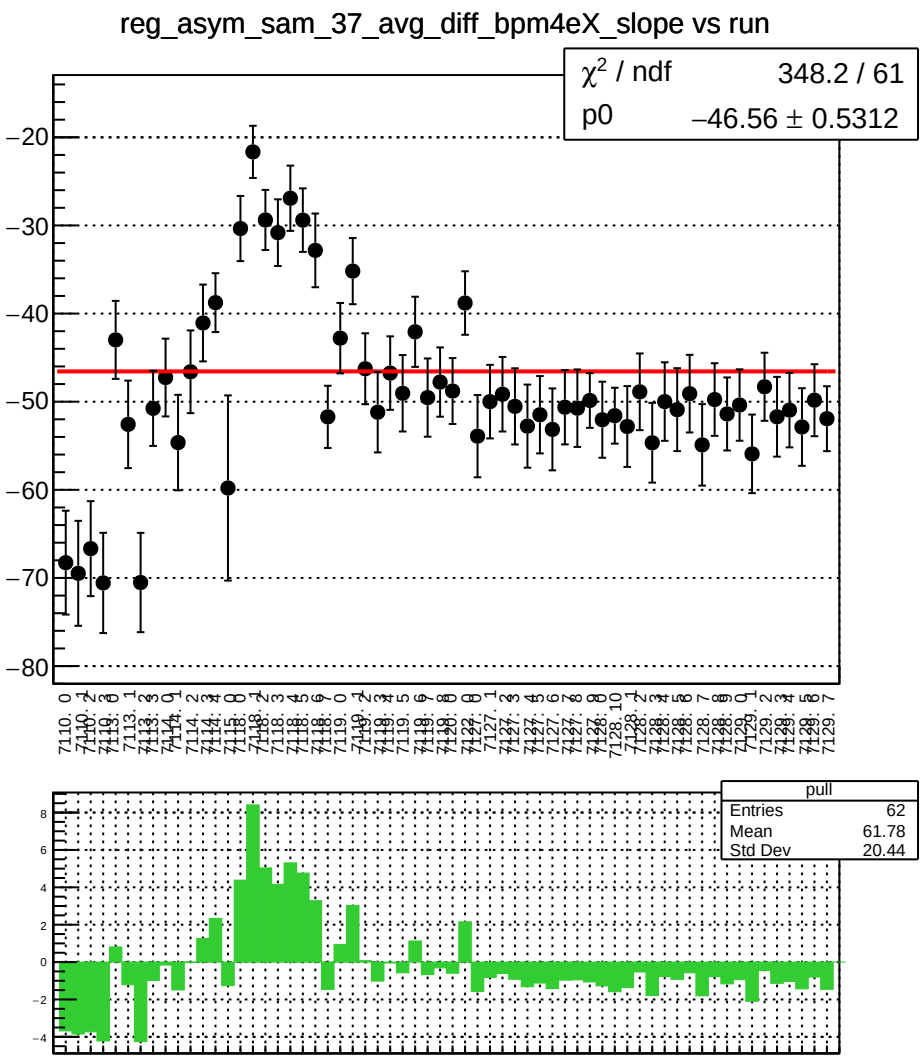

pull1D
Entries 62
Mean 0.006803
Std Dev 0.7492

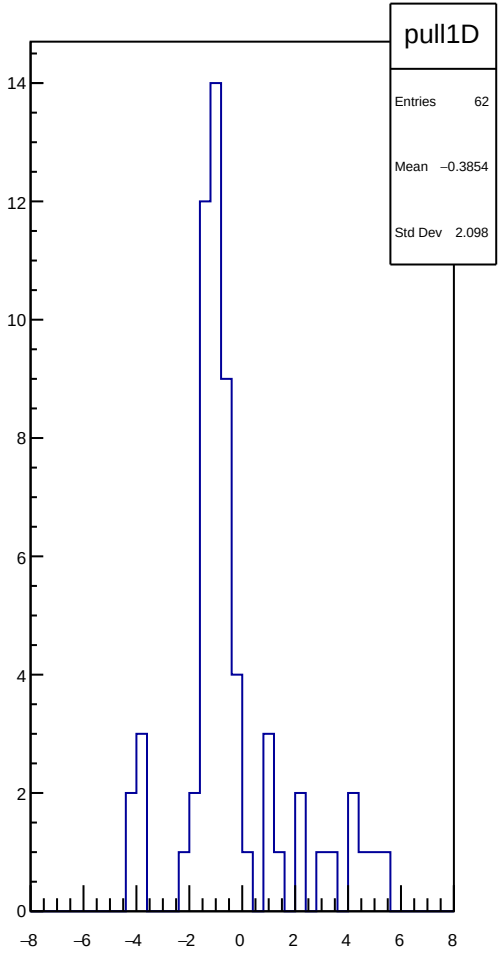

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 61.36 / 61
p0 0.4326 ± 0.0273
pull
Entries 62
Mean −179.6
Std Dev 212.2
pull1D
Entries 62
Mean 0.06014
Std Dev 0.993

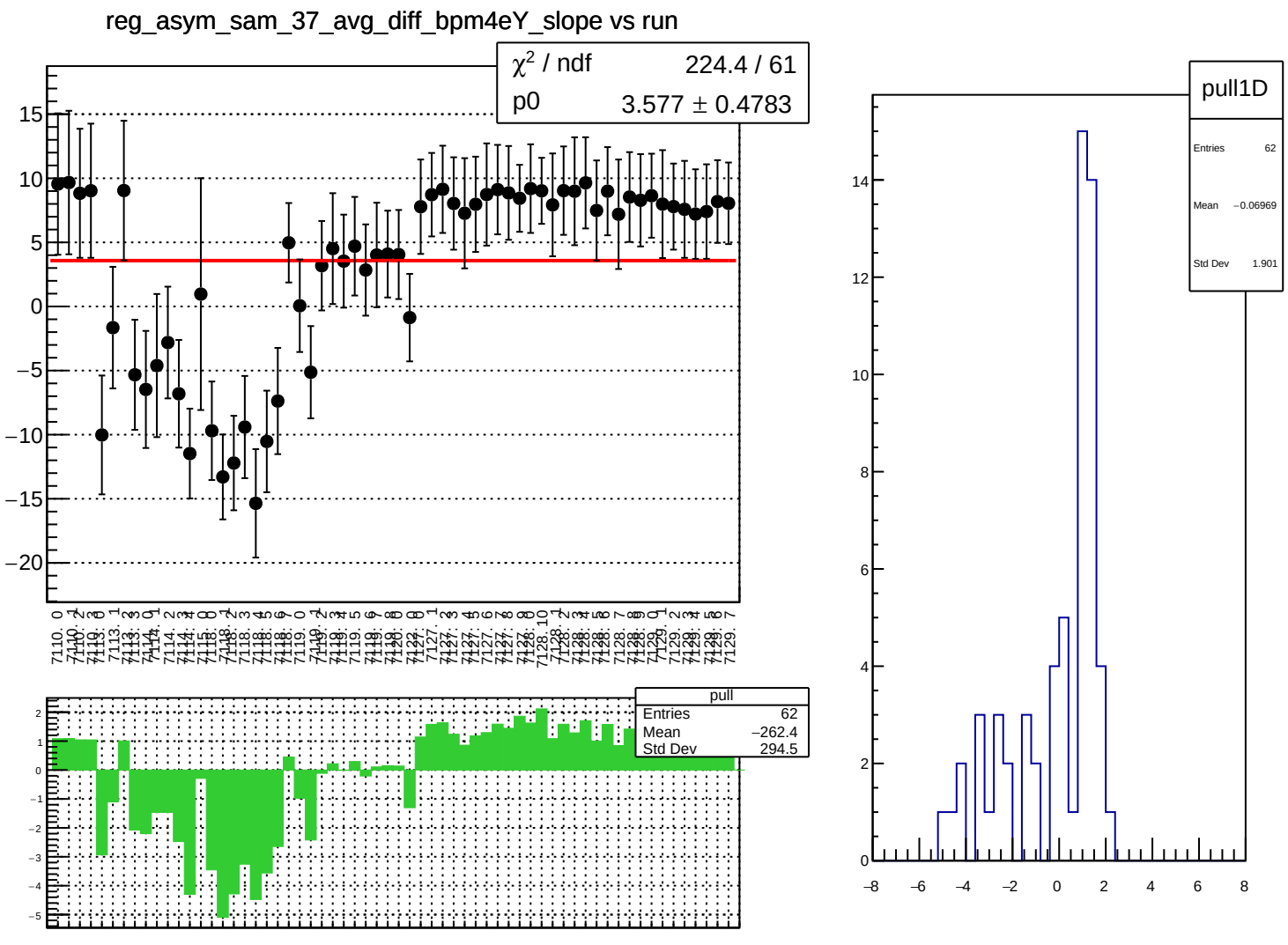

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 696.8 / 61
p0 −11.62 ± 0.5348
pull
Entries 62
Mean 282.2
Std Dev 250.6

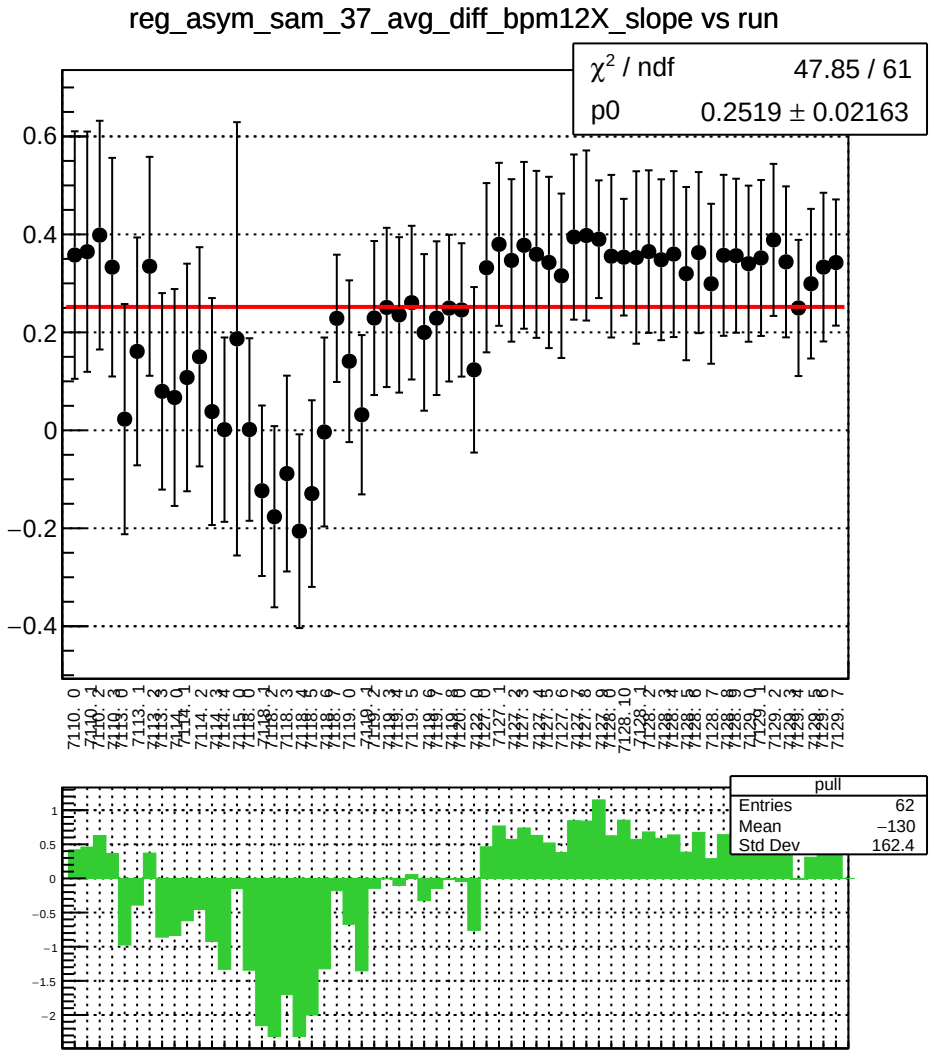

pull1D
Entries 62
Mean 0.4586
Std Dev 2.931

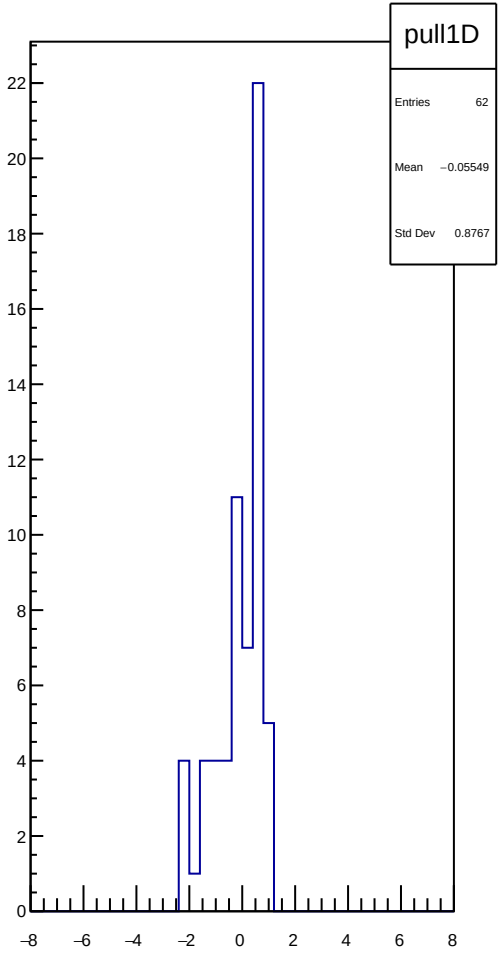

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 203.9 / 61
p0 4.282 ± 0.452
pull
Entries 62
Mean −260.6
Std Dev 292.2
pull1D
Entries 62
Mean 0.06751
Std Dev 1.812

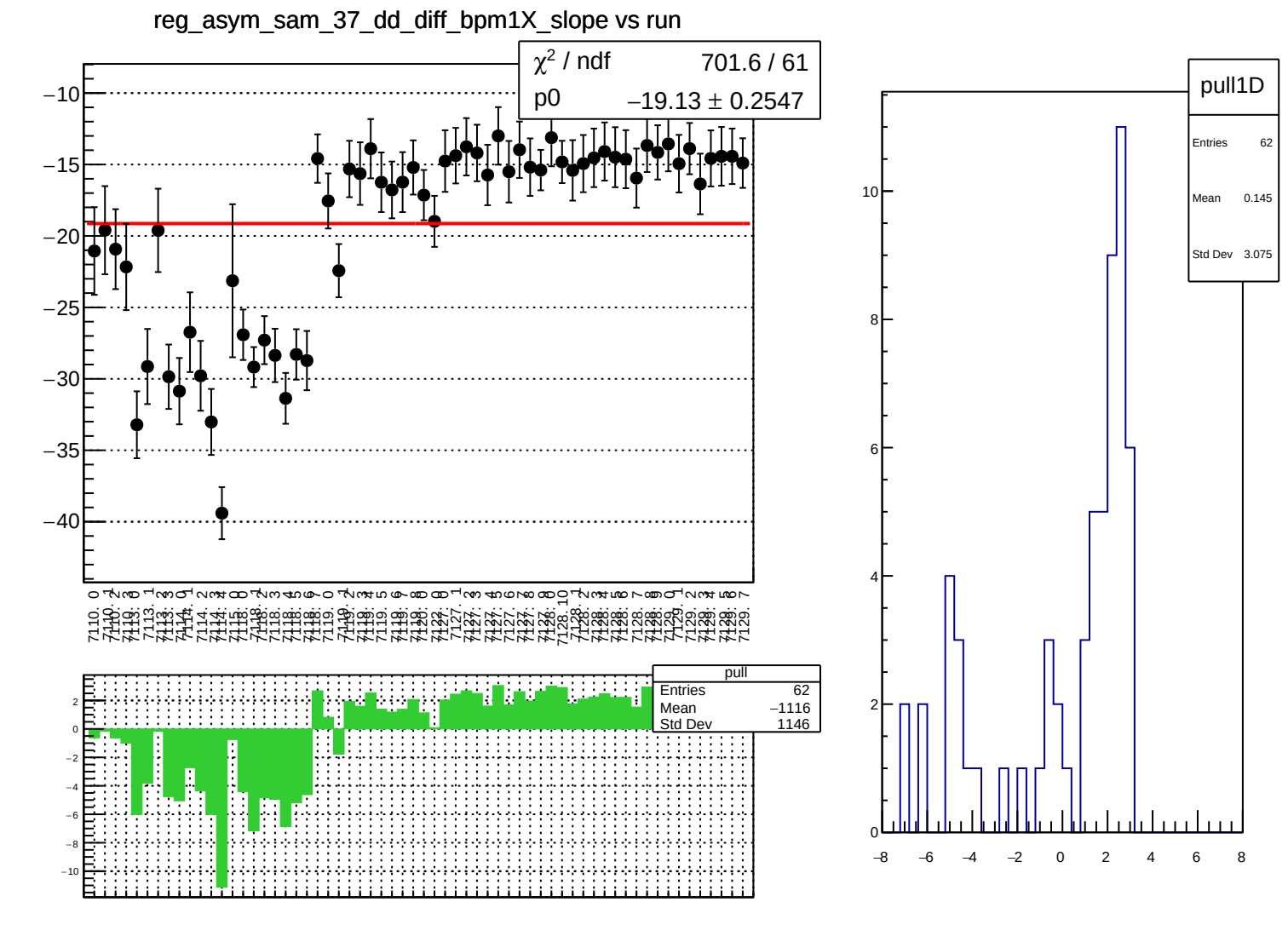

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 348.2 / 61
p0 −46.56 ± 0.5312
pull
Entries 62
Mean 61.78
Std Dev 20.44

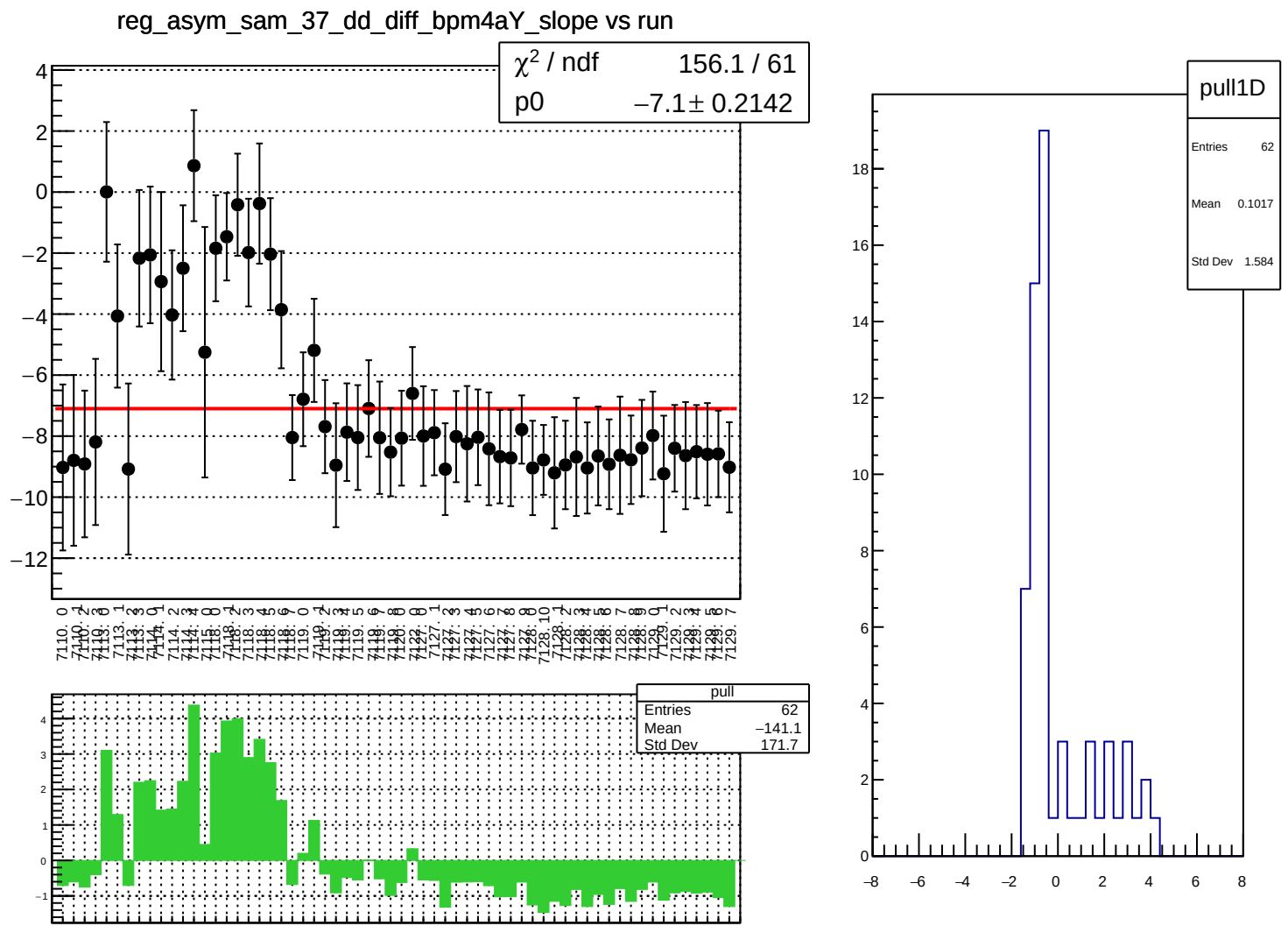

pull1D
Entries 62
Mean −0.3854
Std Dev 2.098

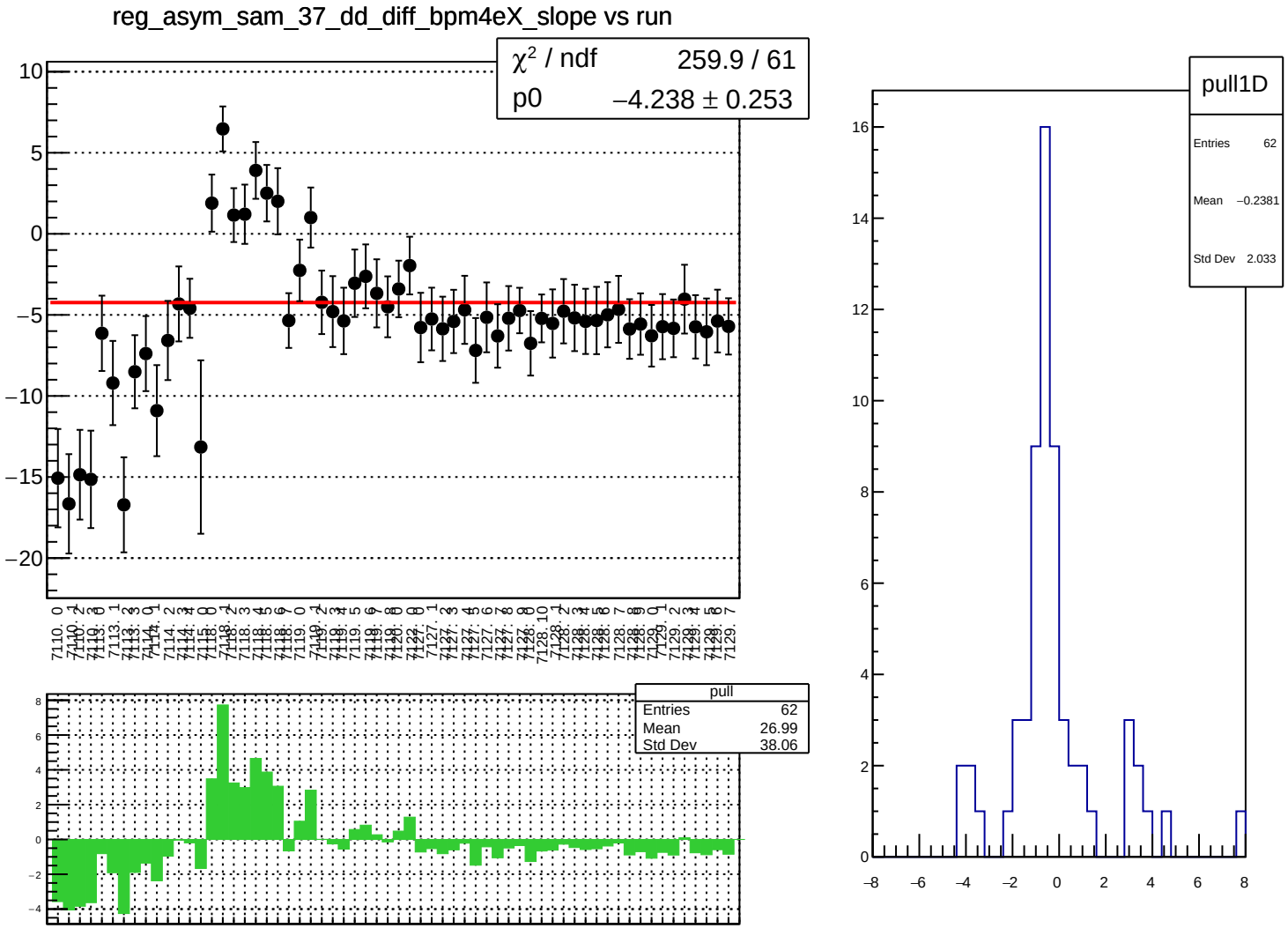

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 224.4 / 61
p0 3.577 ± 0.4783
pull
Entries 62
Mean −262.4
Std Dev 294.5
pull1D
Entries 62
Mean −0.06969
Std Dev 1.901

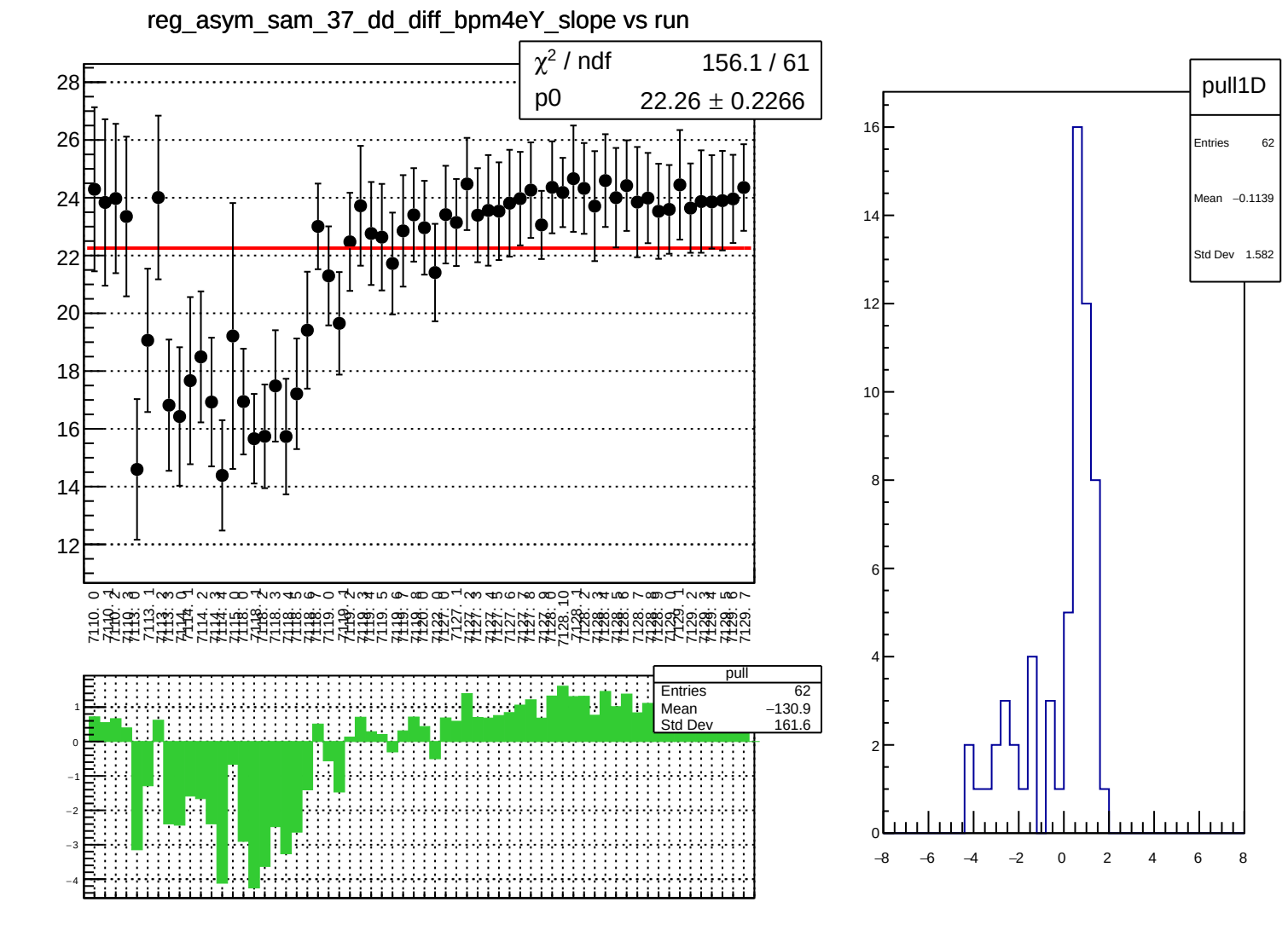

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 47.85 / 61
p0 0.2519 ± 0.02163
pull
Entries 62
Mean −130
Std Dev 162.4

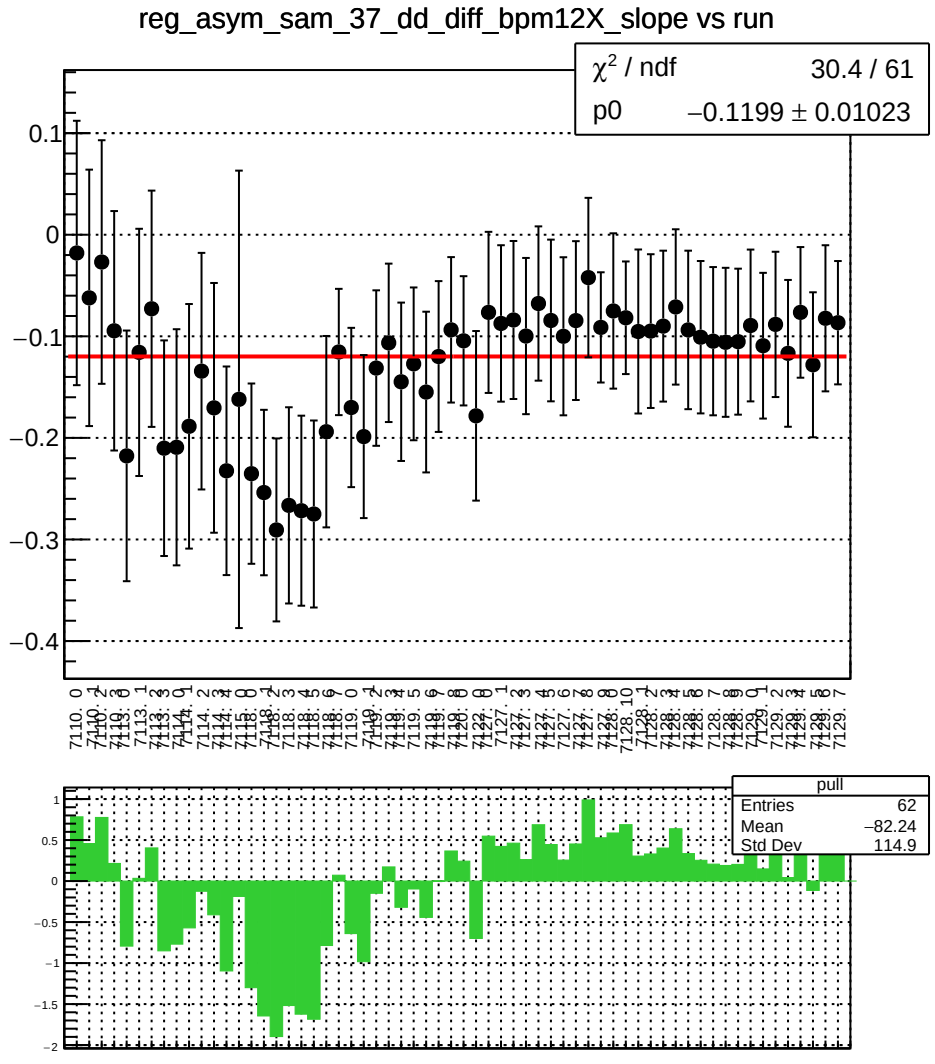

pull1D
Entries 62
Mean −0.05549
Std Dev 0.8767

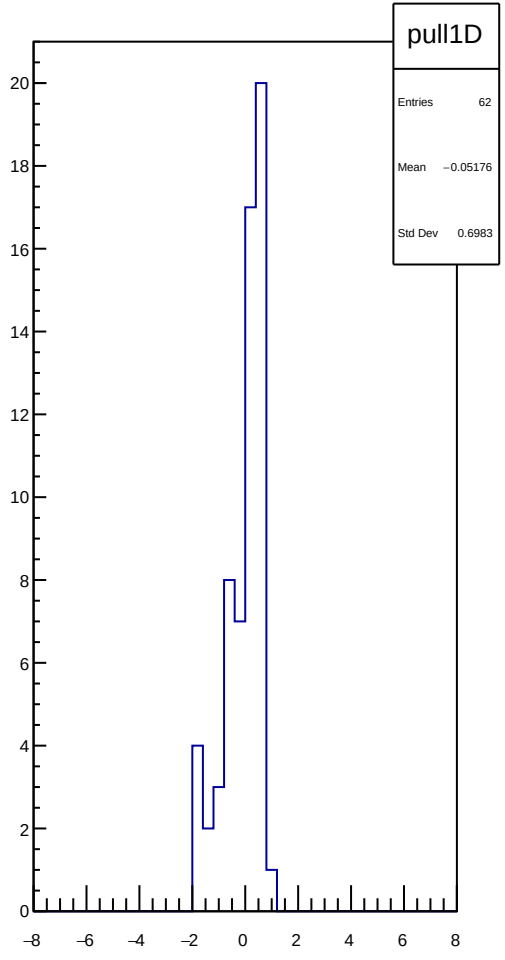

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 701.6 / 61
p0 −19.13 ± 0.2547
pull
Entries 62
Mean −1116
Std Dev 1146
pull1D
Entries 62
Mean 0.145
Std Dev 3.075

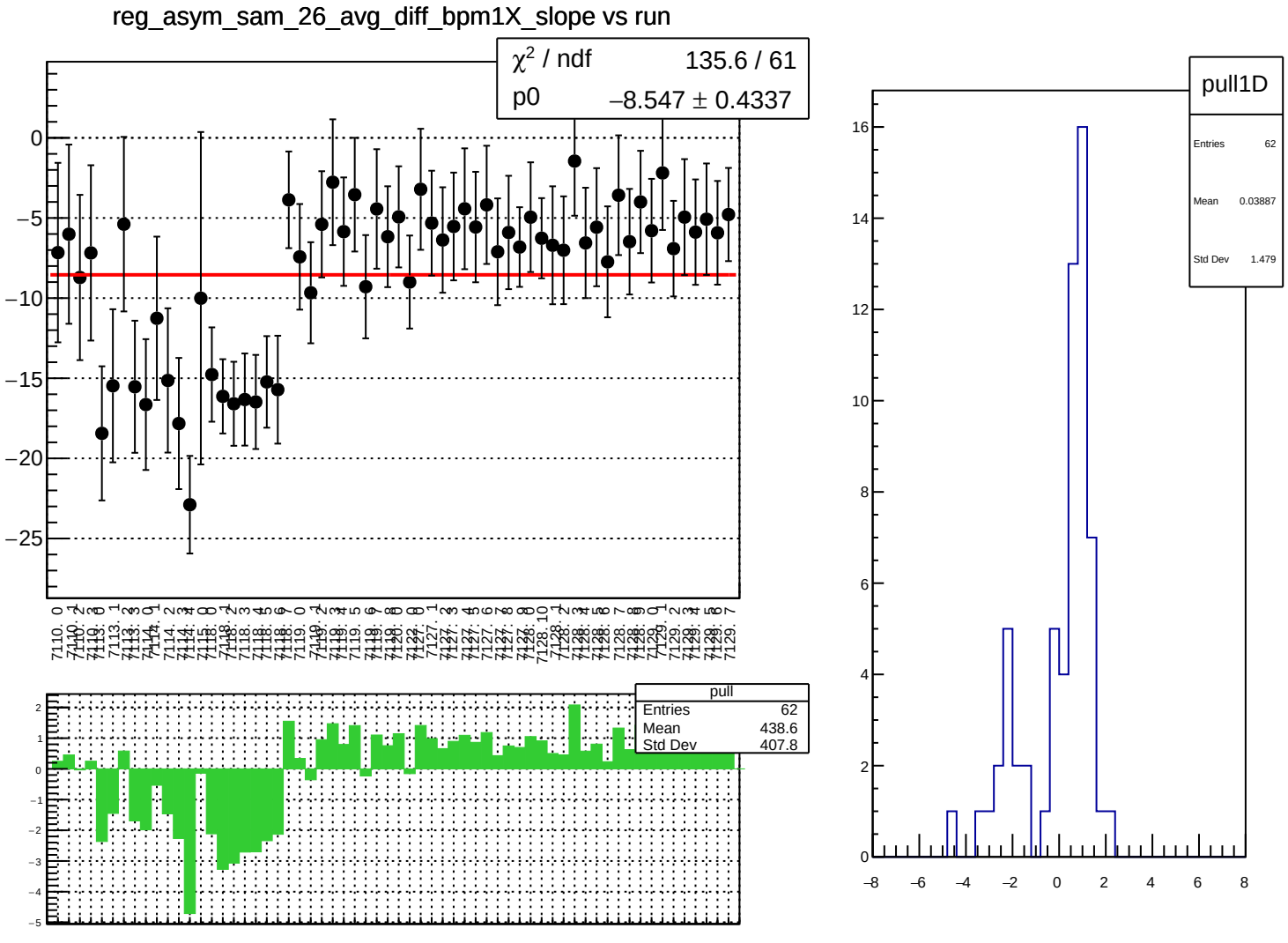

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 156.1 / 61
p0 −7.1 ± 0.2142
pull
Entries 62
Mean −141.1
Std Dev 171.7
pull1D
Entries 62
Mean 0.1017
Std Dev 1.584

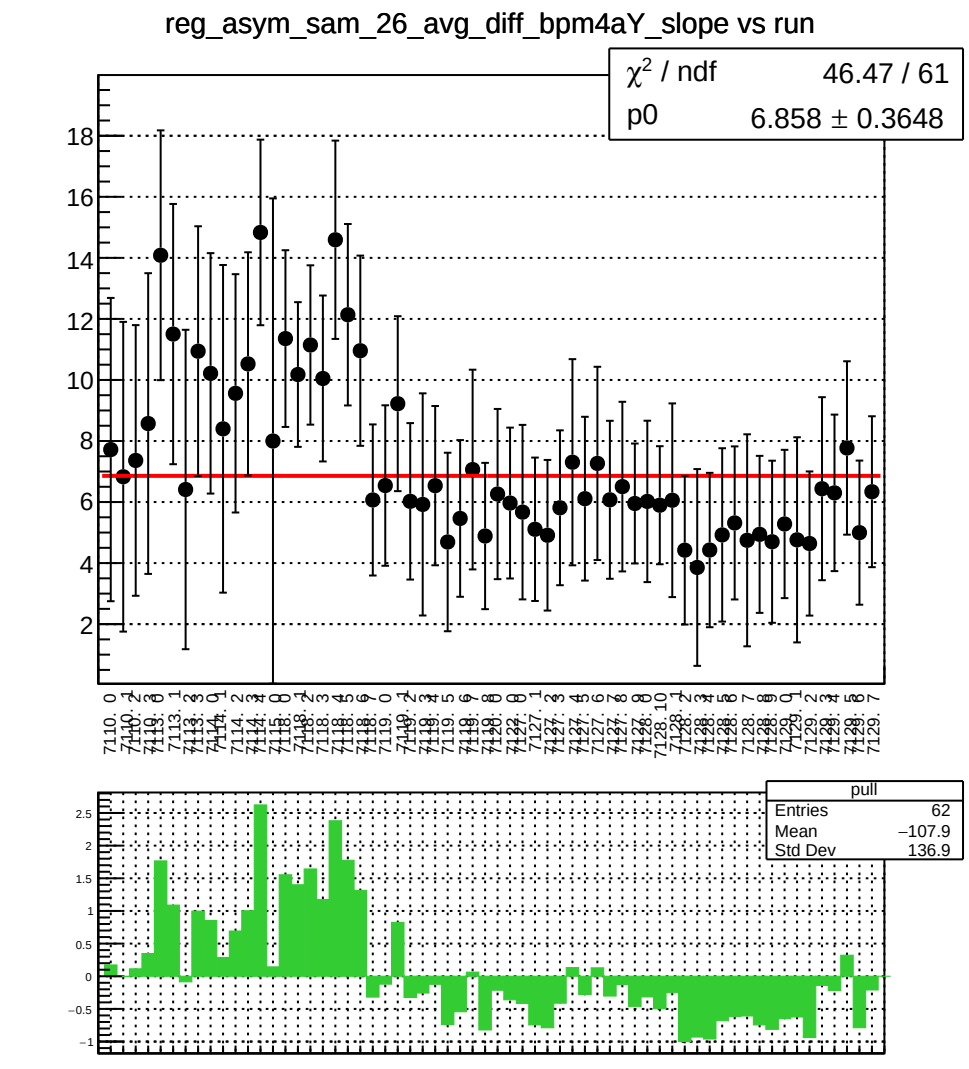

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 259.9 / 61
p0 −4.238 ± 0.253
pull
Entries 62
Mean 26.99
Std Dev 38.06
pull1D
Entries 62
Mean −0.2381
Std Dev 2.033

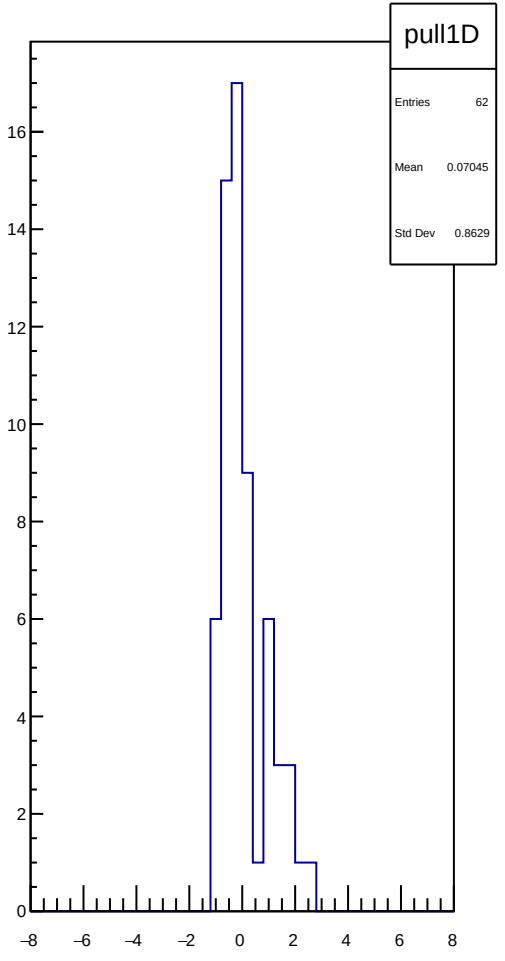

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 156.1 / 61
p0 22.26 ± 0.2266
pull
Entries 62
Mean −130.9
Std Dev 161.6
pull1D
Entries 62
Mean −0.1139
Std Dev 1.582

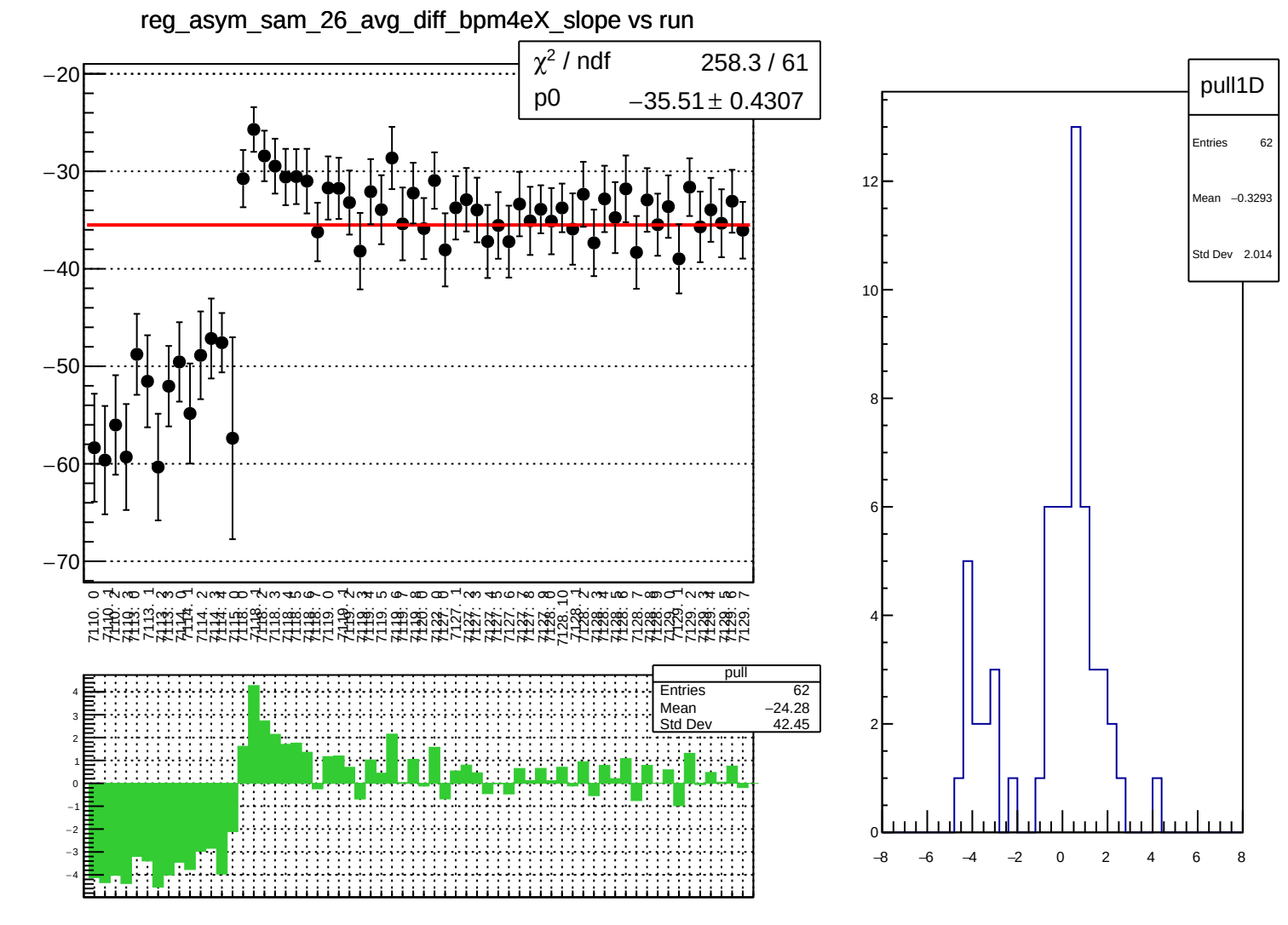

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 30.4 / 61
p0 −0.1199 ± 0.01023
pull
Entries 62
Mean −82.24
Std Dev 114.9

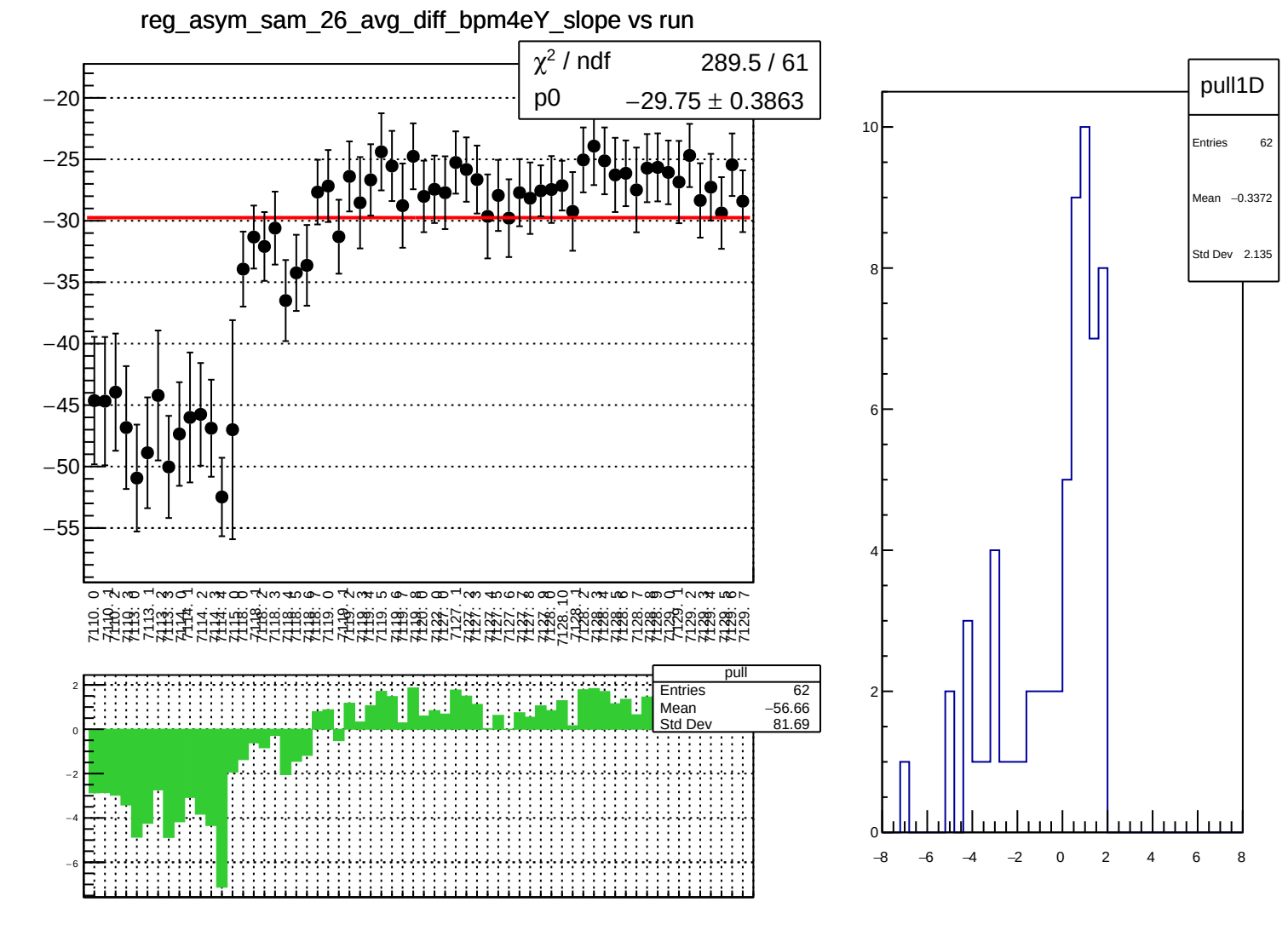

pull1D
Entries 62
Mean −0.05176
Std Dev 0.6983

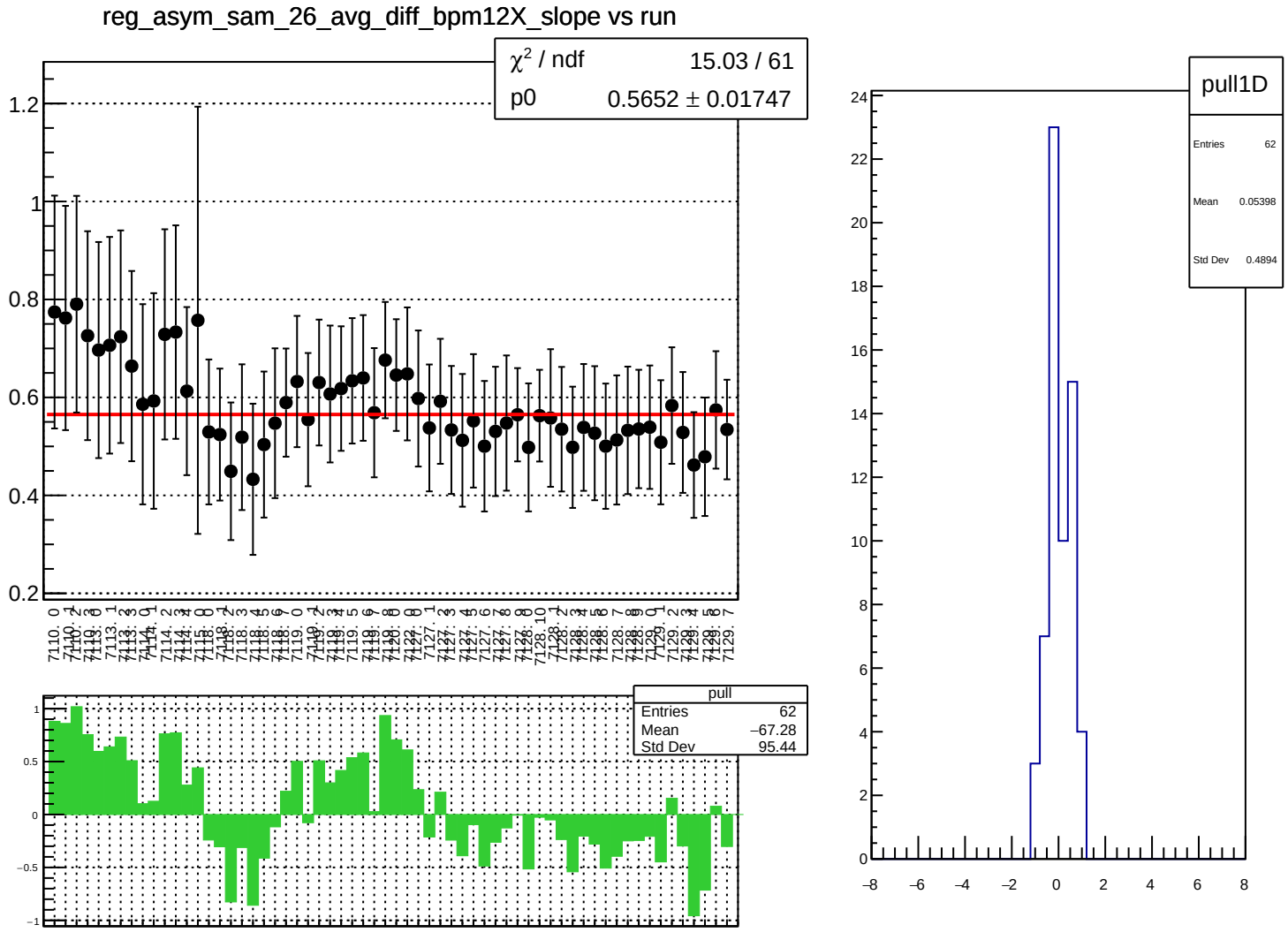

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 135.6 / 61
p0 −8.547 ± 0.4337
pull
Entries 62
Mean 438.6
Std Dev 407.8
pull1D
Entries 62
Mean 0.03887
Std Dev 1.479

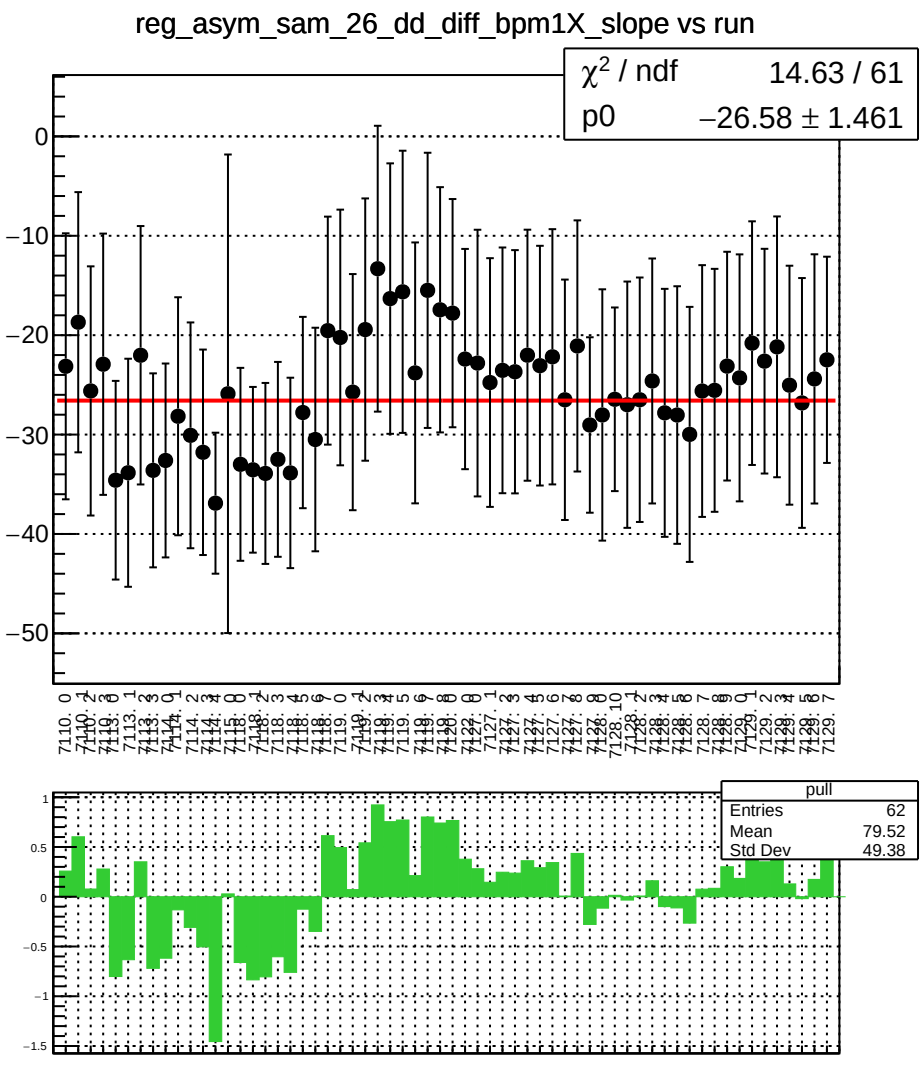

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.47 / 61
p0 6.858 ± 0.3648
pull
Entries 62
Mean −107.9
Std Dev 136.9

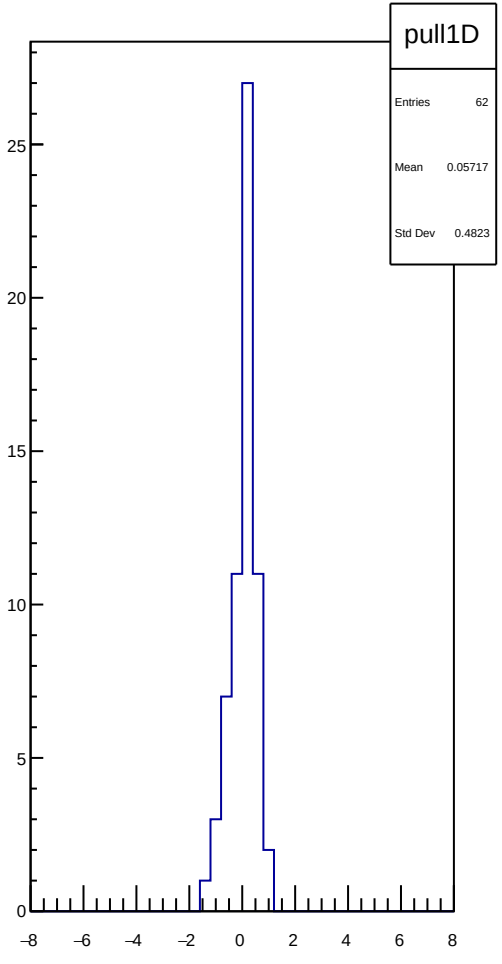

pull1D
Entries 62
Mean 0.07045
Std Dev 0.8629

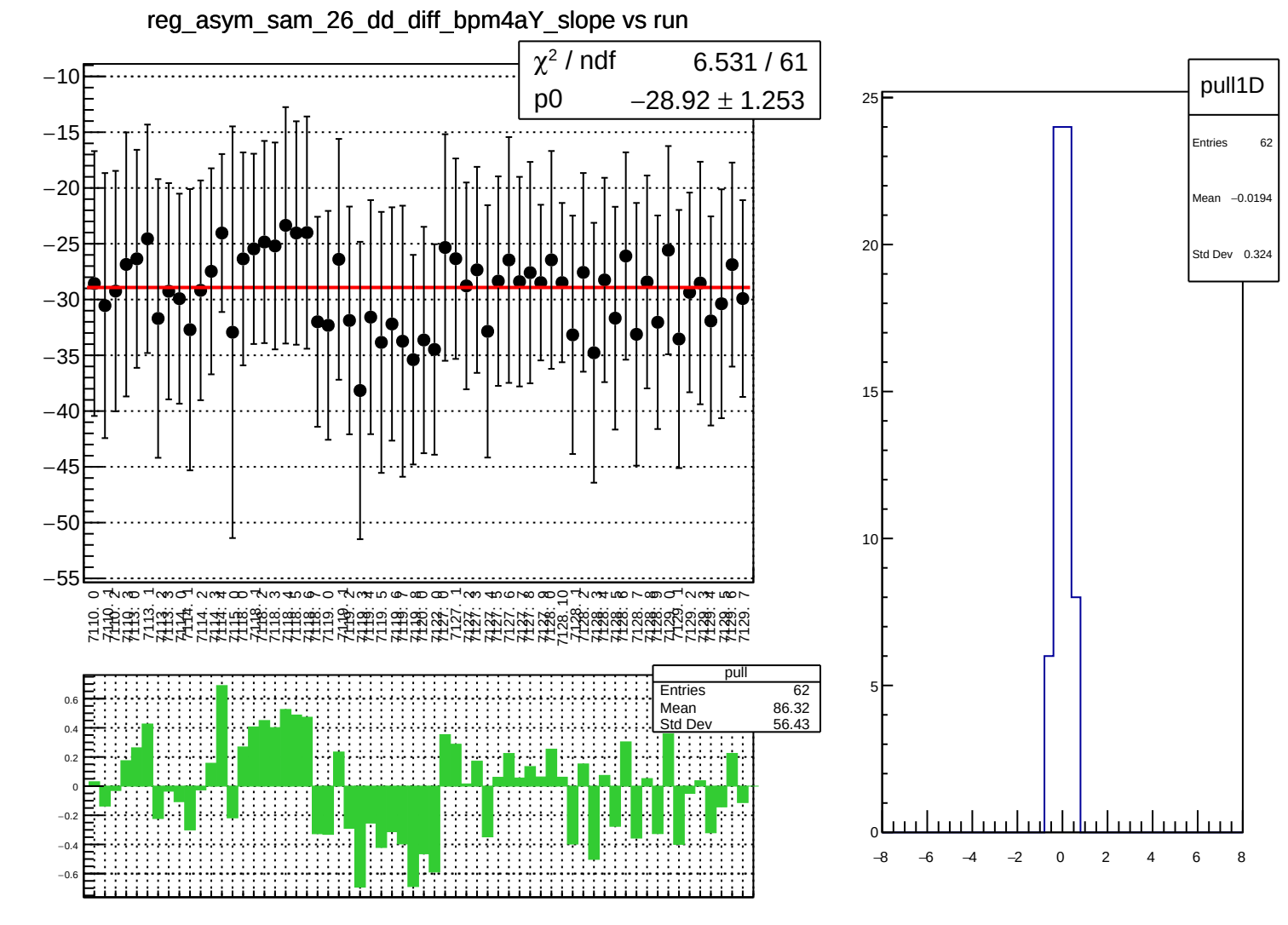

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 258.3 / 61
p0 −35.51 ± 0.4307
pull
Entries 62
Mean −24.28
Std Dev 42.45
pull1D
Entries 62
Mean −0.3293
Std Dev 2.014

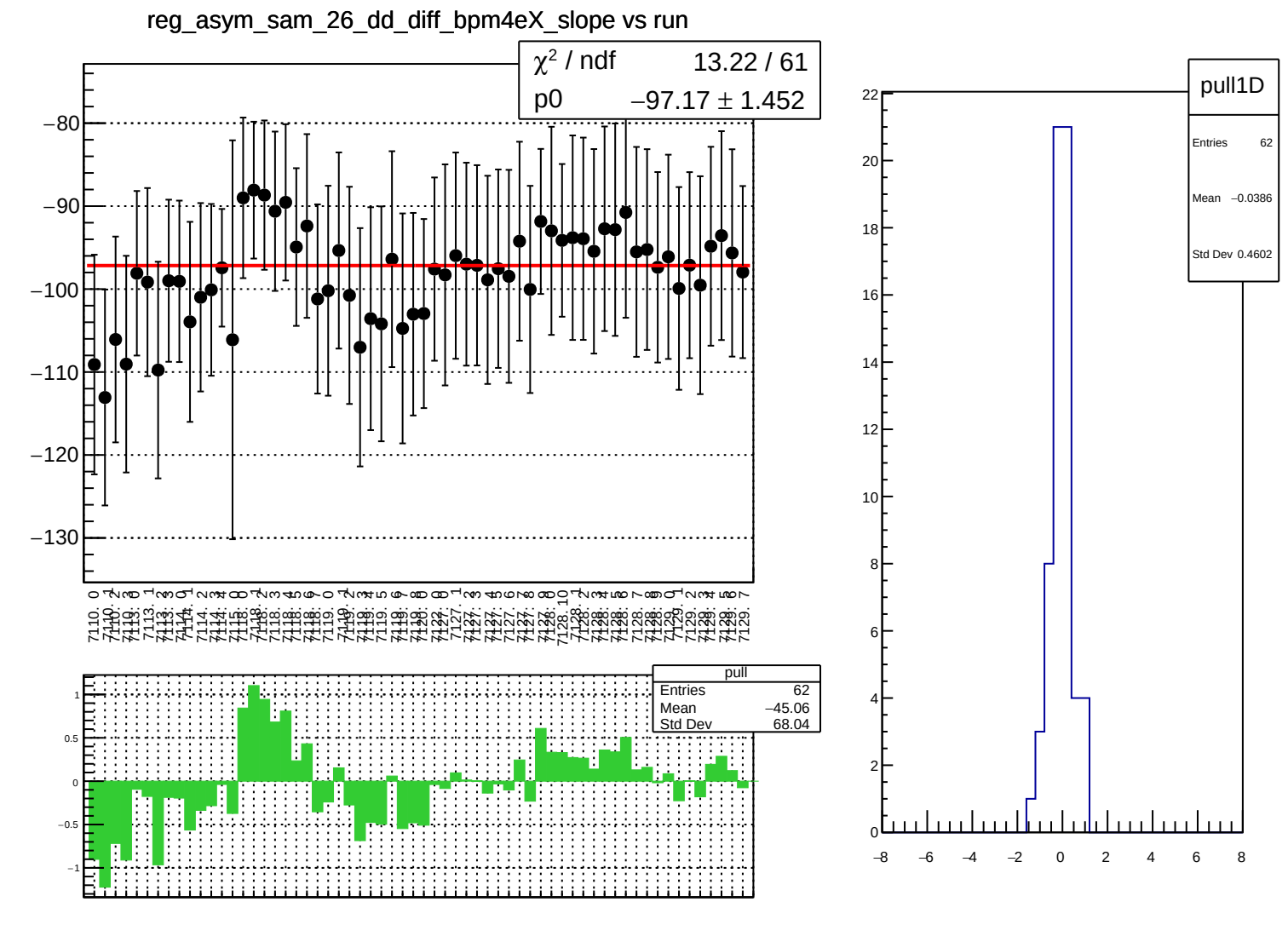

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 289.5 / 61
p0 −29.75 ± 0.3863
pull
Entries 62
Mean −56.66
Std Dev 81.69
pull1D
Entries 62
Mean −0.3372
Std Dev 2.135

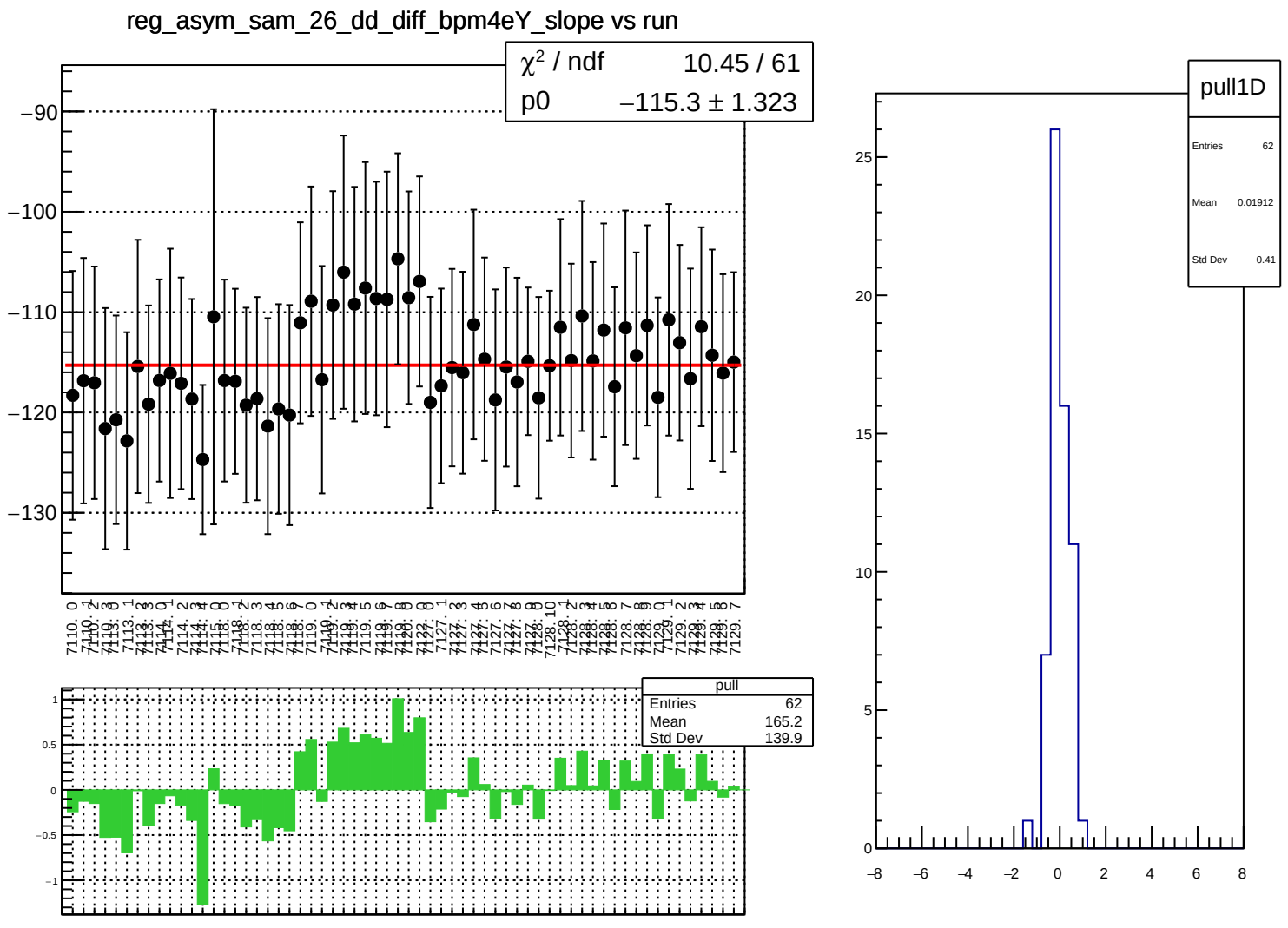

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 15.03 / 61
p0 0.5652 ± 0.01747
pull
Entries 62
Mean −67.28
Std Dev 95.44
pull1D
Entries 62
Mean 0.05398
Std Dev 0.4894

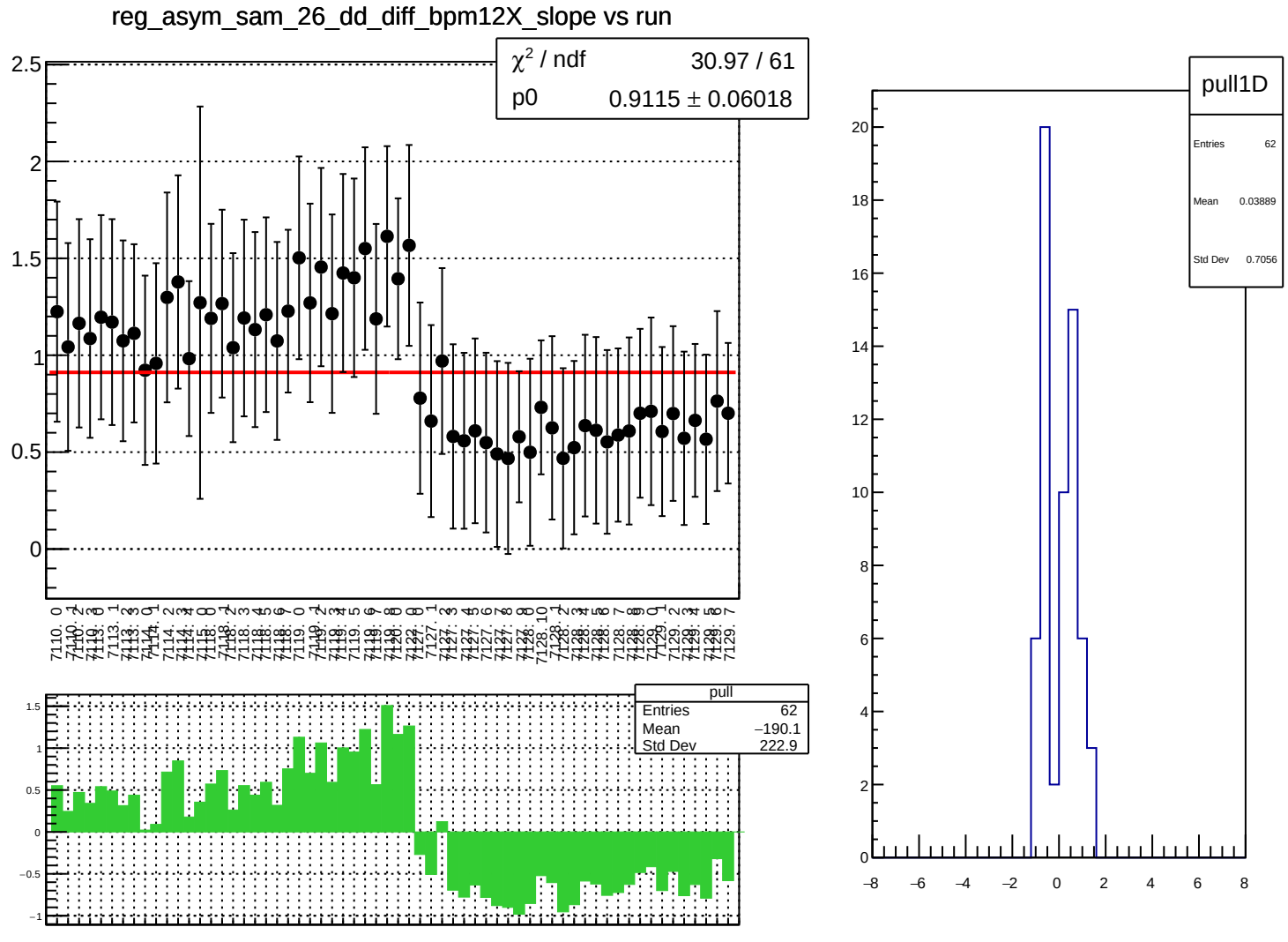

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 14.63 / 61
p0 −26.58 ± 1.461
pull
Entries 62
Mean 79.52
Std Dev 49.38

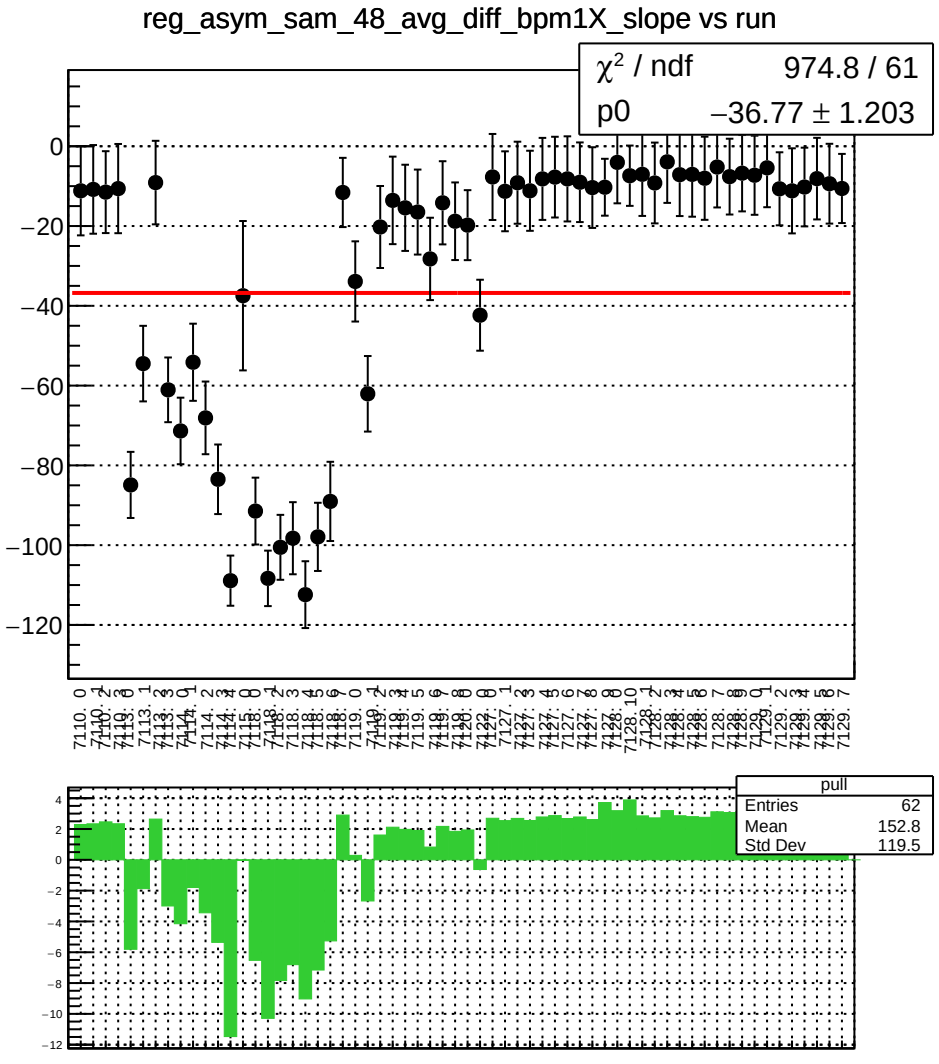

pull1D
Entries 62
Mean 0.05717
Std Dev 0.4823

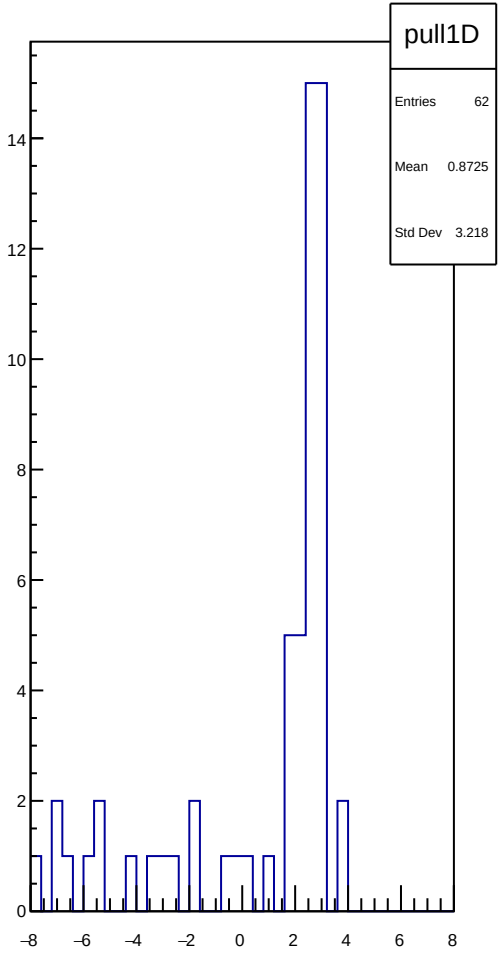

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.531 / 61
p0 −28.92 ± 1.253
pull
Entries 62
Mean 86.32
Std Dev 56.43
pull1D
Entries 62
Mean −0.0194
Std Dev 0.324

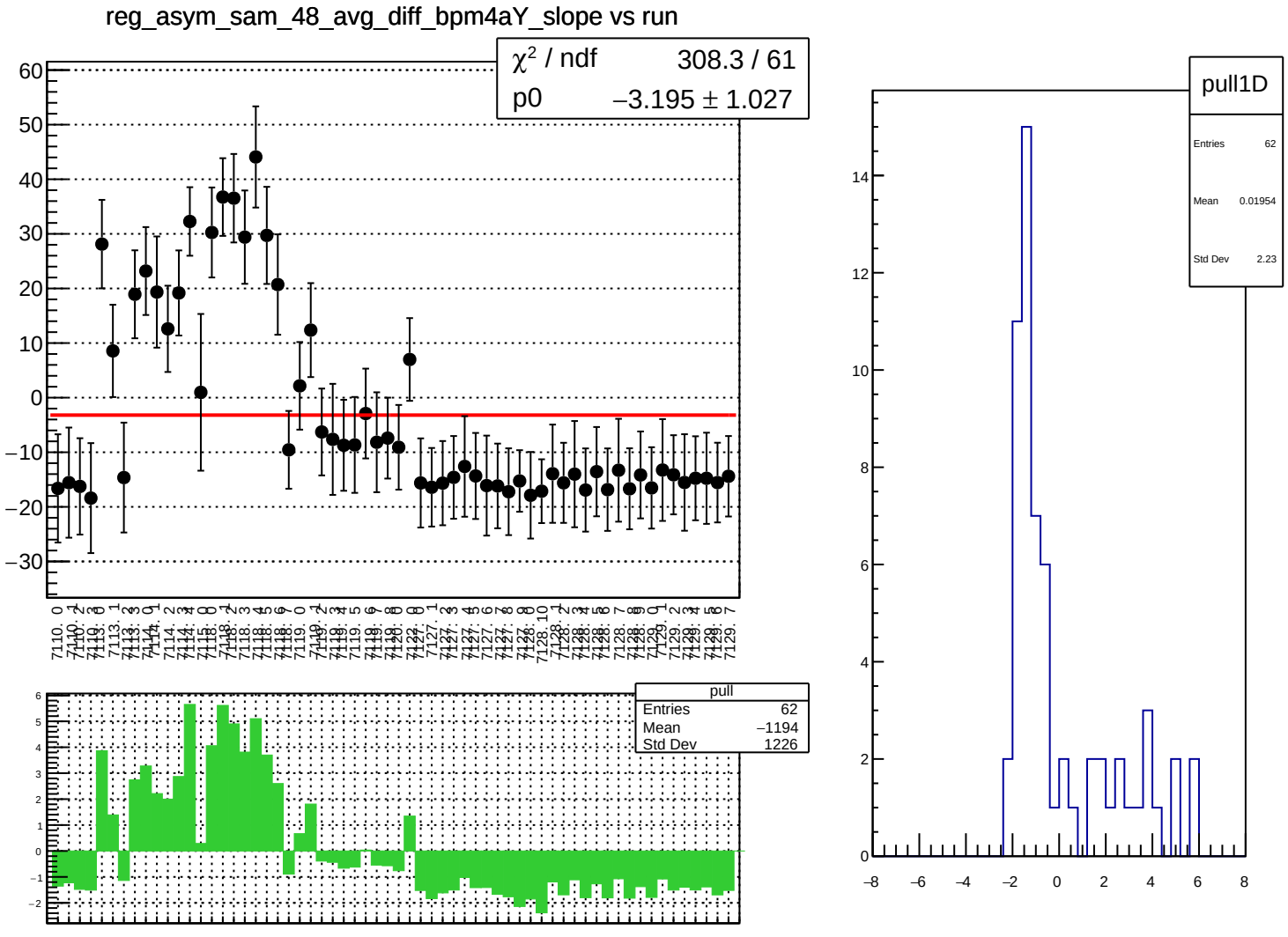

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.22 / 61
p0 −97.17 ± 1.452
pull
Entries 62
Mean −45.06
Std Dev 68.04
pull1D
Entries 62
Mean −0.0386
Std Dev 0.4602

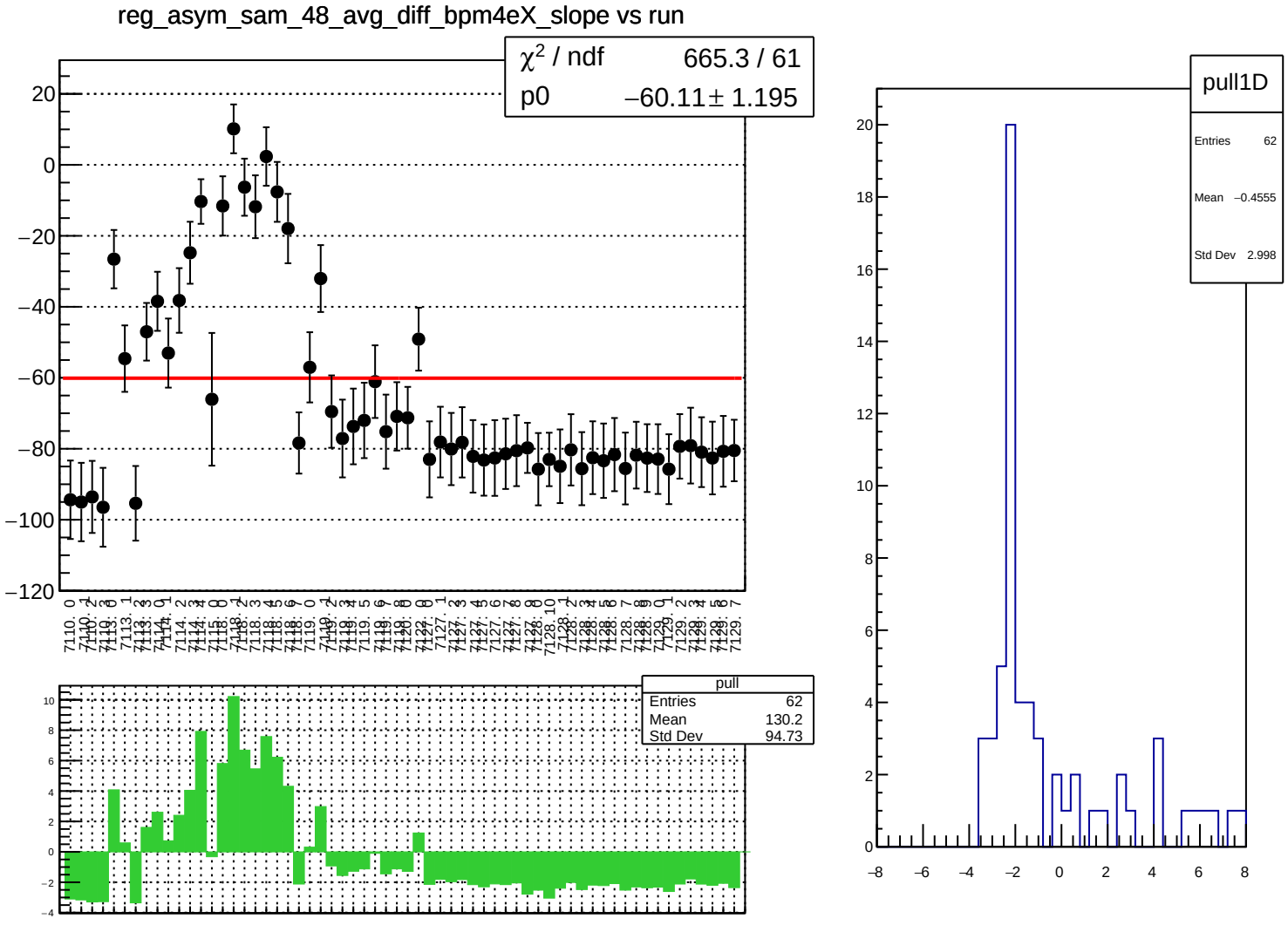

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.45 / 61
p0 −115.3 ± 1.323
−90
−100
−110
−120
−130
pull
Entries 62
Mean 165.2
Std Dev 139.9
1
0.5
0
−0.5
−1
pull1D
Entries 62
Mean 0.01912
Std Dev 0.41
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

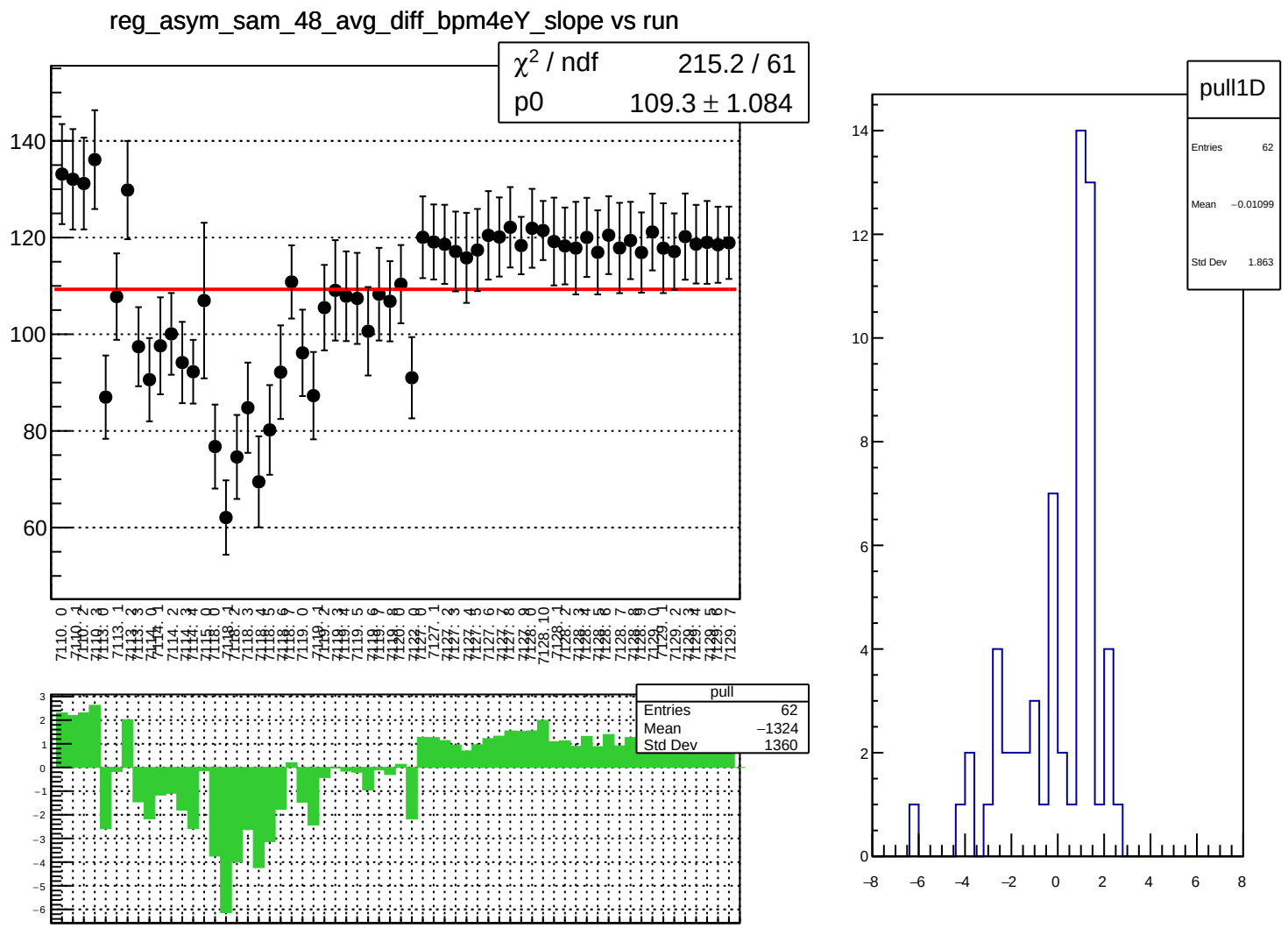

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 30.97 / 61
p0 0.9115 ± 0.06018
pull
Entries 62
Mean −190.1
Std Dev 222.9
pull1D
Entries 62
Mean 0.03889
Std Dev 0.7056

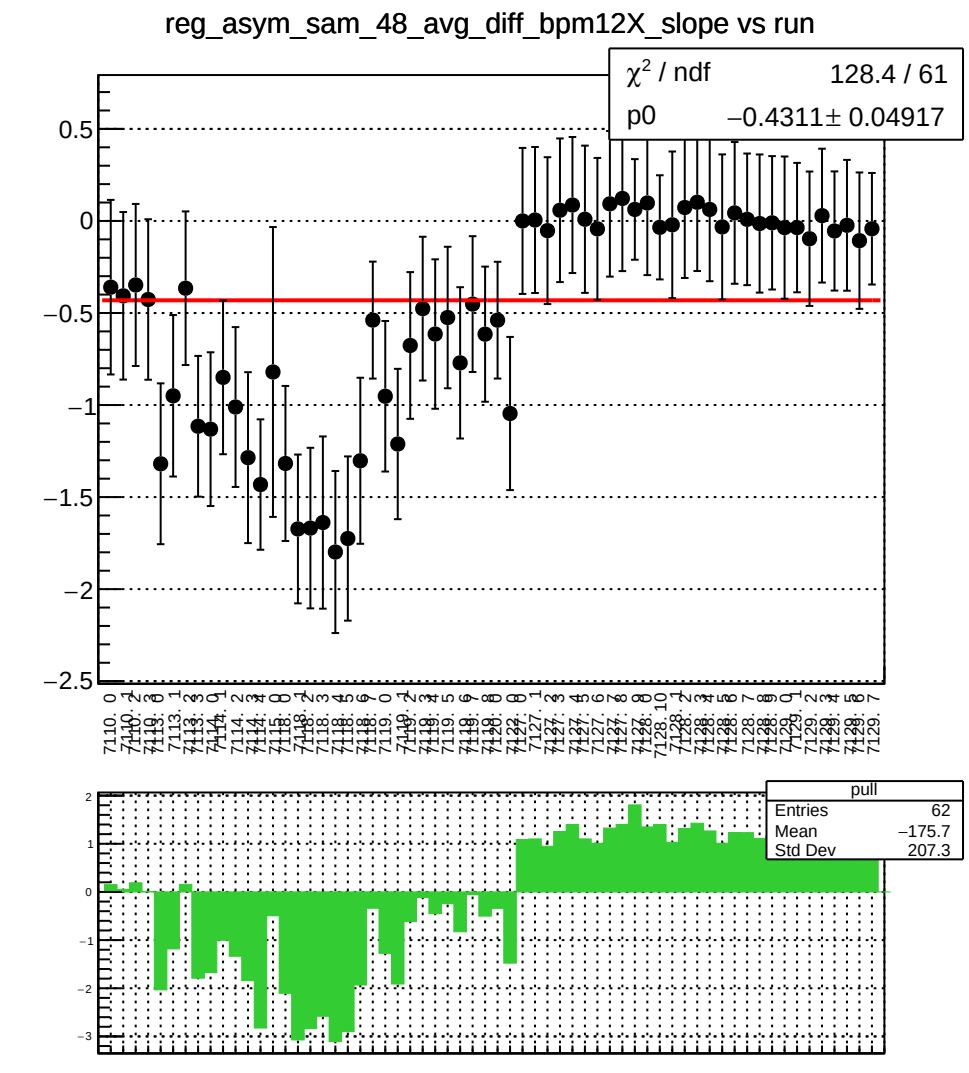

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 974.8 / 61
p0 −36.77 ± 1.203
pull
Entries 62
Mean 152.8
Std Dev 119.5

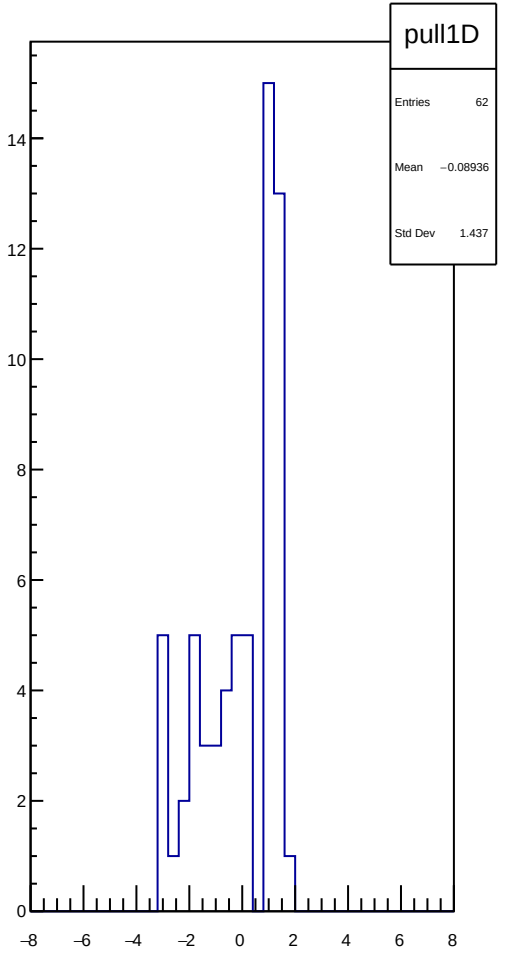

pull1D
Entries 62
Mean 0.8725
Std Dev 3.218

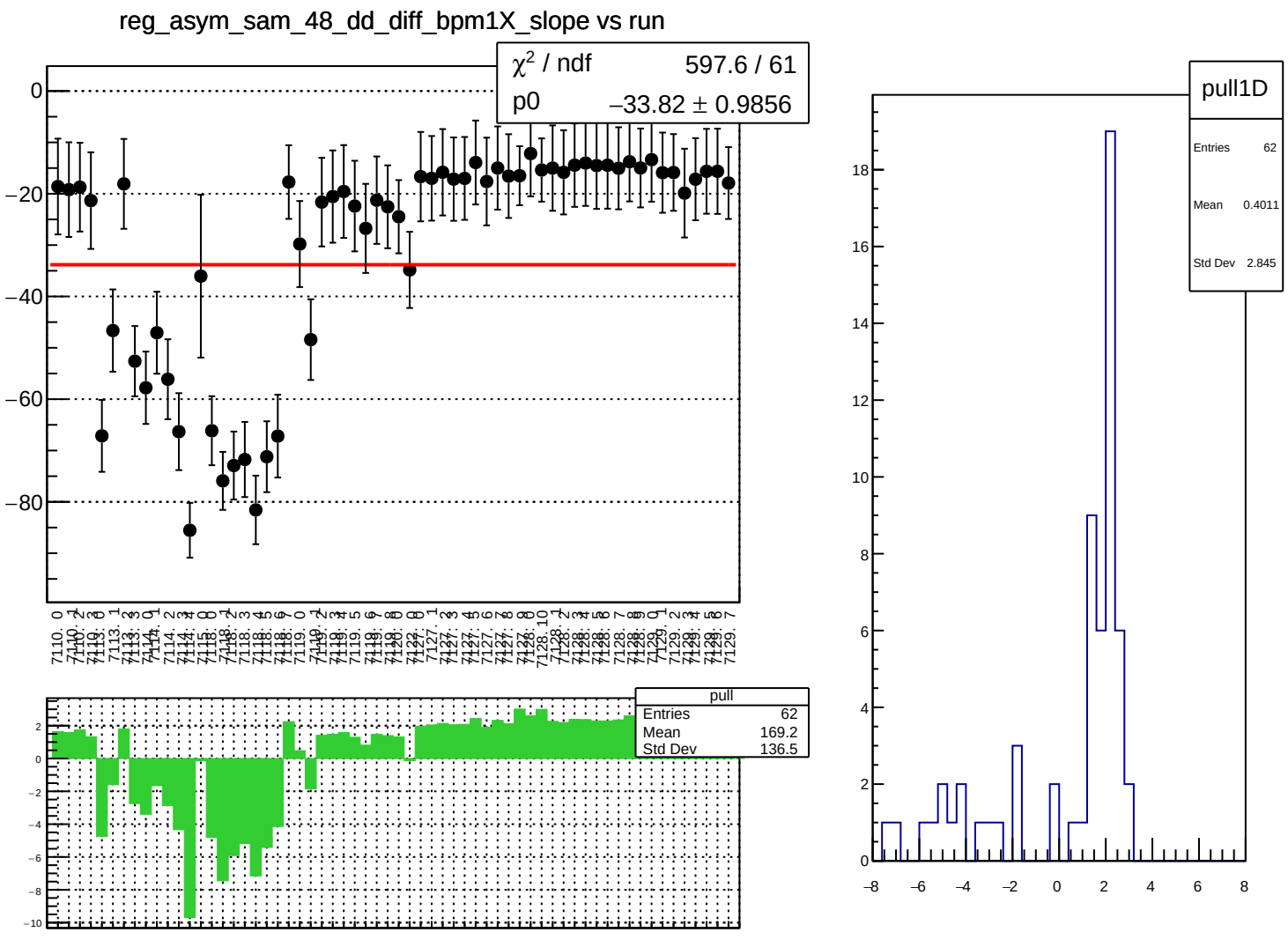

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 308.3 / 61
p0 −3.195 ± 1.027
pull
Entries 62
Mean −1194
Std Dev 1226
pull1D
Entries 62
Mean 0.01954
Std Dev 2.23

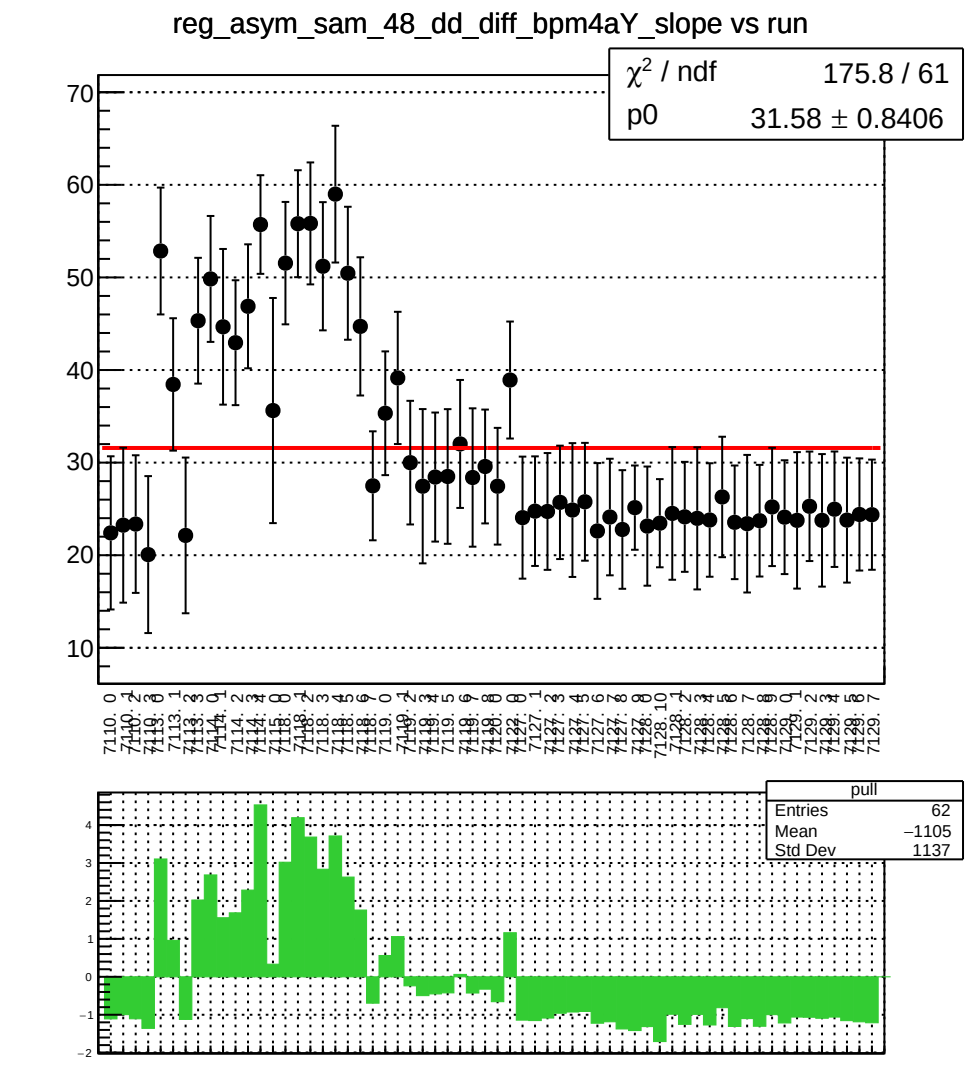

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 665.3 / 61
p0 −60.11 ± 1.195
pull
Entries 62
Mean 130.2
Std Dev 94.73
pull1D
Entries 62
Mean −0.4555
Std Dev 2.998

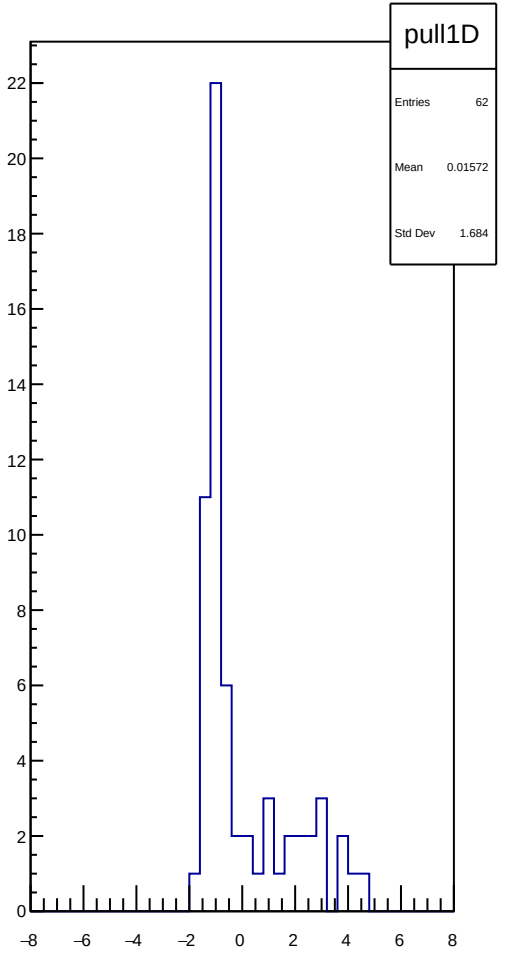

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 215.2 / 61
p0 109.3 ± 1.084
140
120
100
80
60
pull
Entries 62
Mean −1324
Std Dev 1360
3
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 62
Mean −0.01099
Std Dev 1.863
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

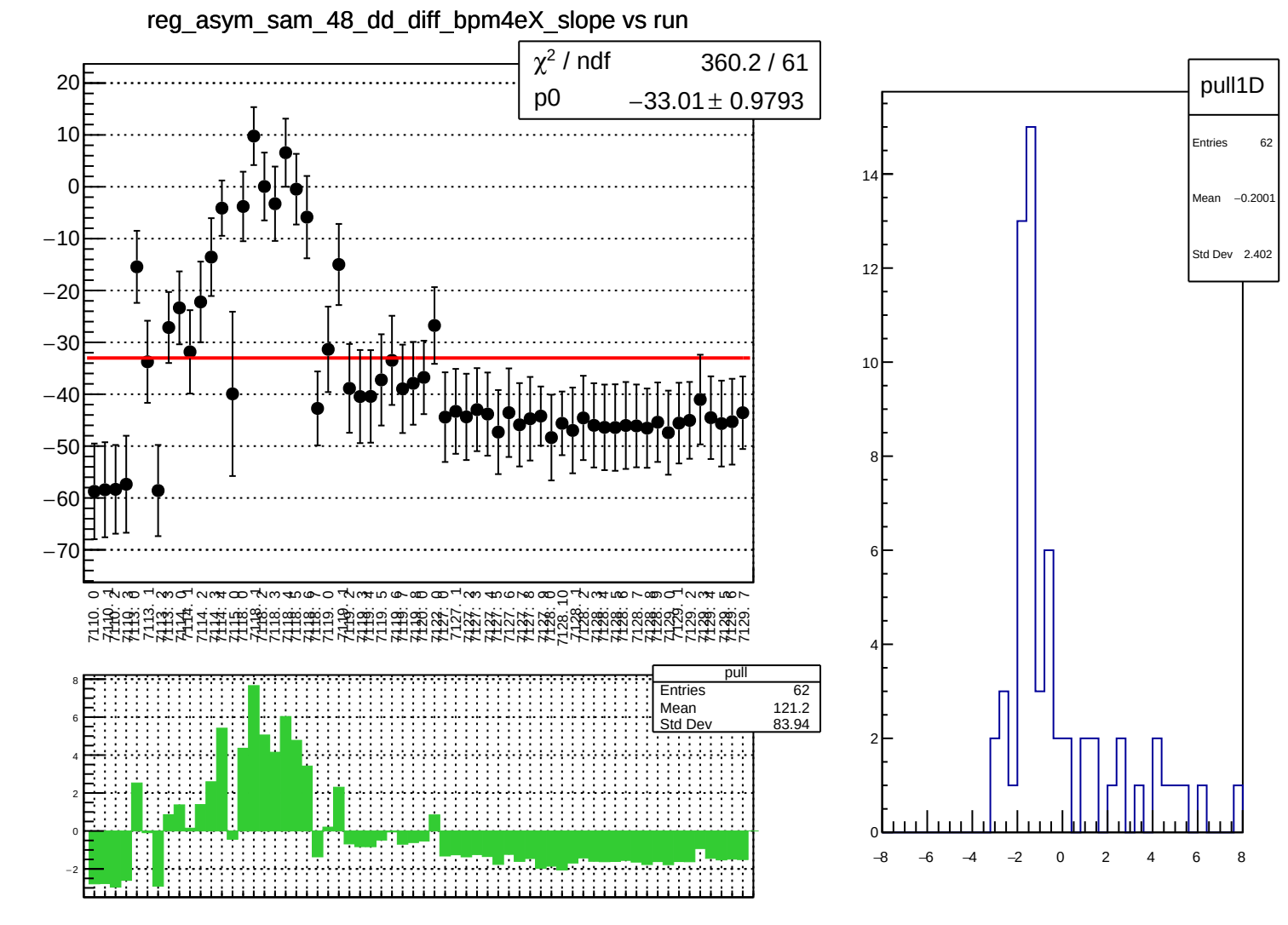

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 128.4 / 61
p0 −0.4311± 0.04917
pull
Entries 62
Mean −175.7
Std Dev 207.3

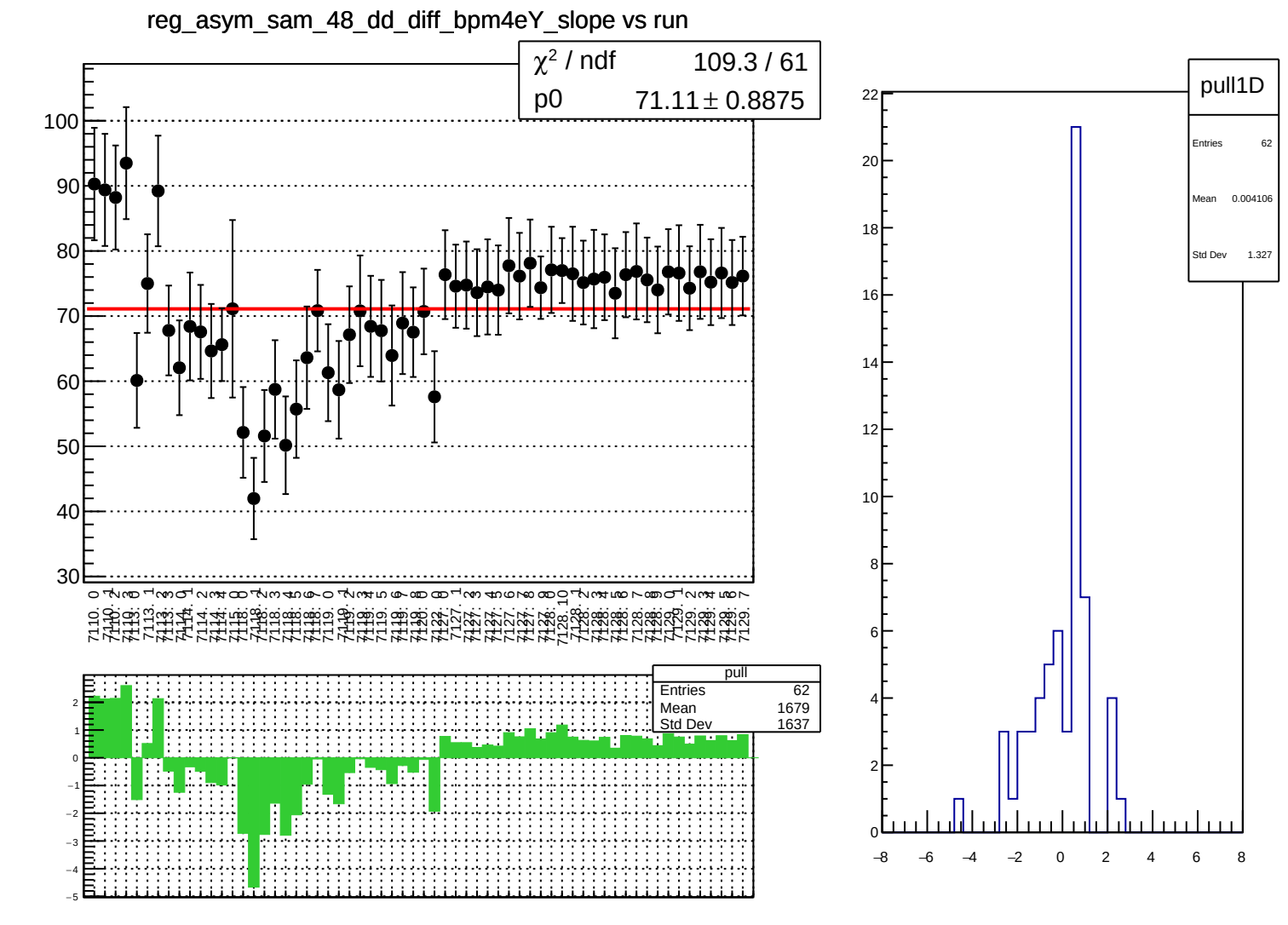

pull1D
Entries 62
Mean −0.08936
Std Dev 1.437

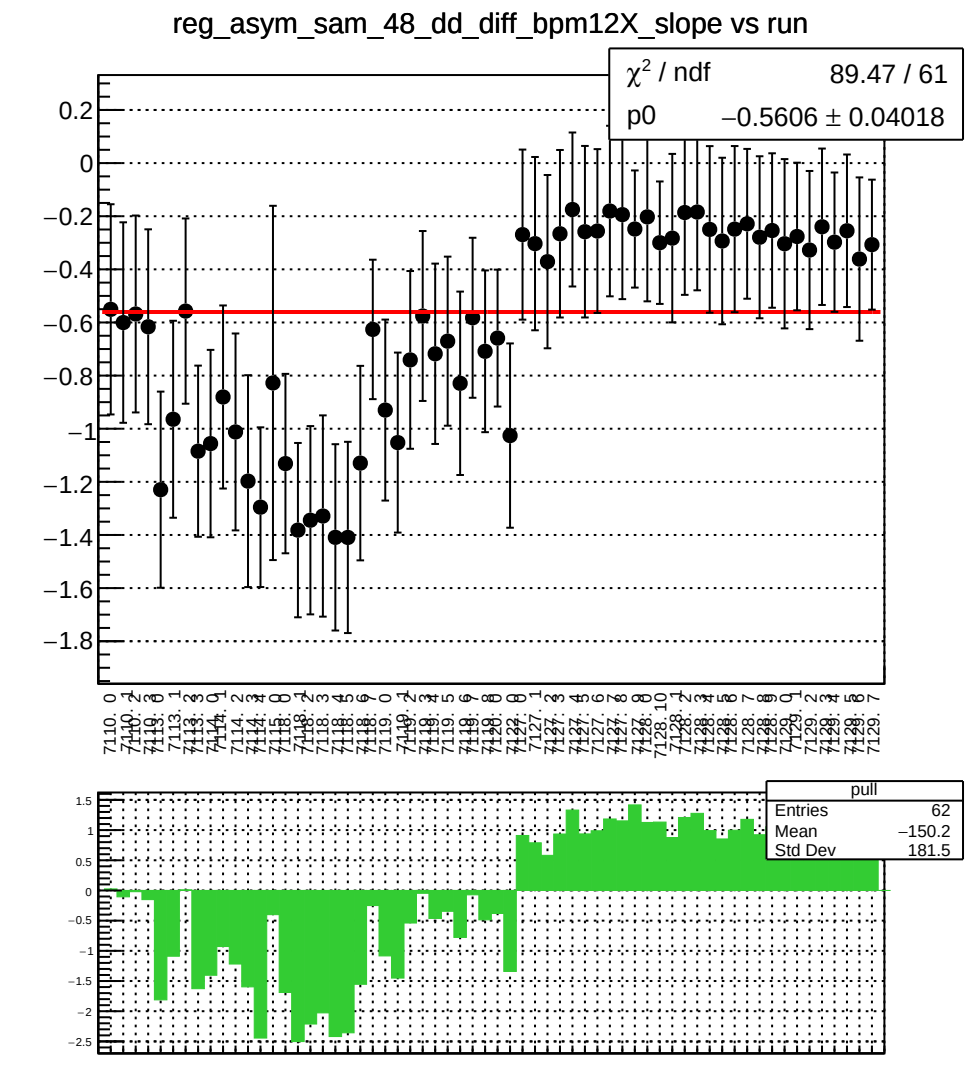

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 597.6 / 61
p0 −33.82 ± 0.9856
pull
Entries 62
Mean 169.2
Std Dev 136.5
pull1D
Entries 62
Mean 0.4011
Std Dev 2.845

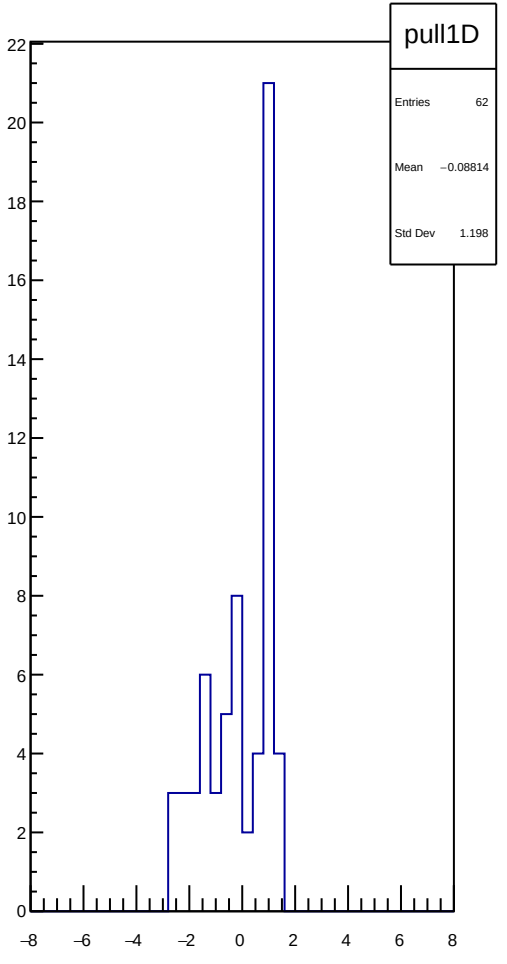

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 175.8 / 61
p0 31.58 ± 0.8406
pull
Entries 62
Mean −1105
Std Dev 1137

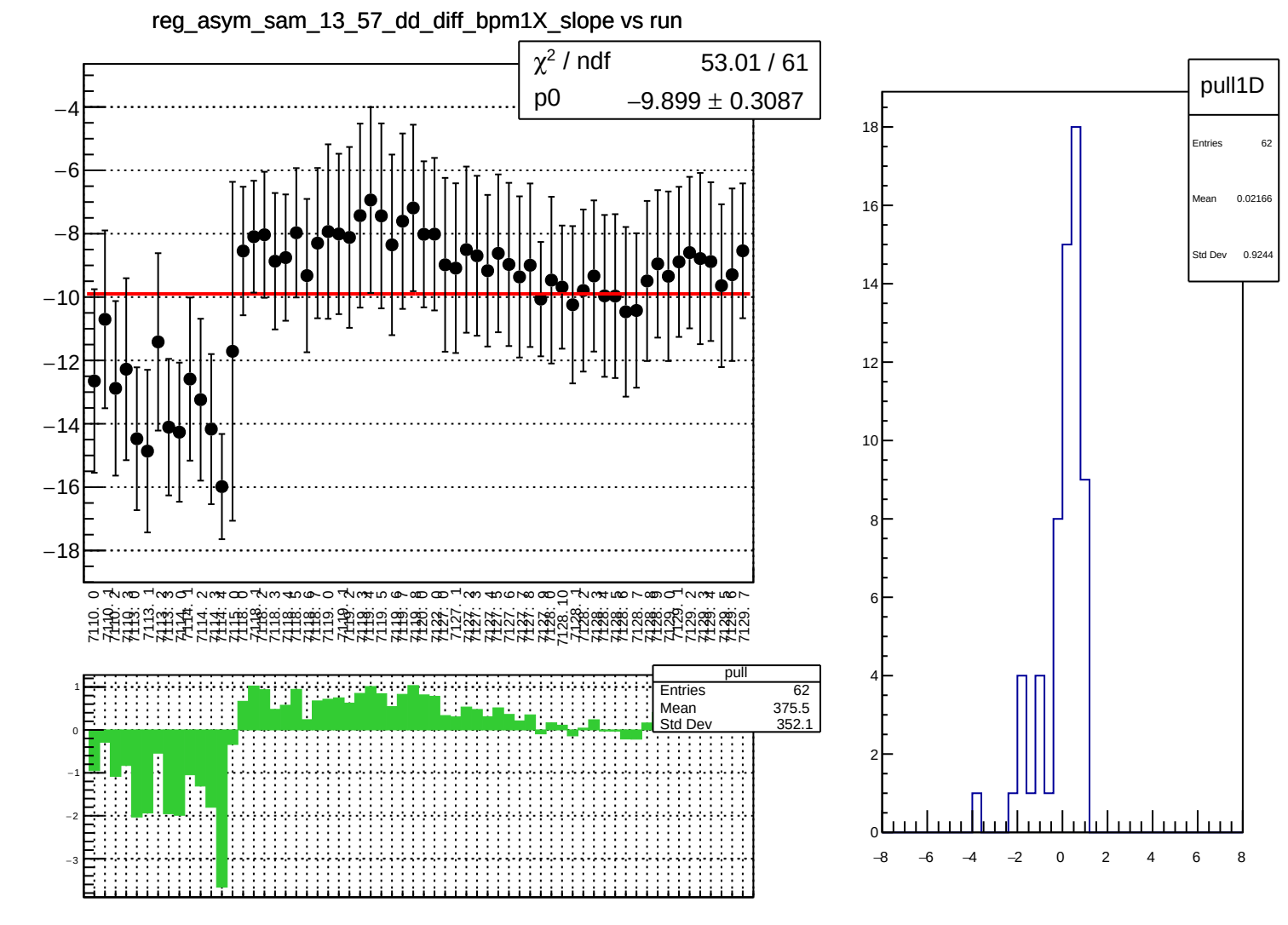

pull1D
Entries 62
Mean 0.01572
Std Dev 1.684

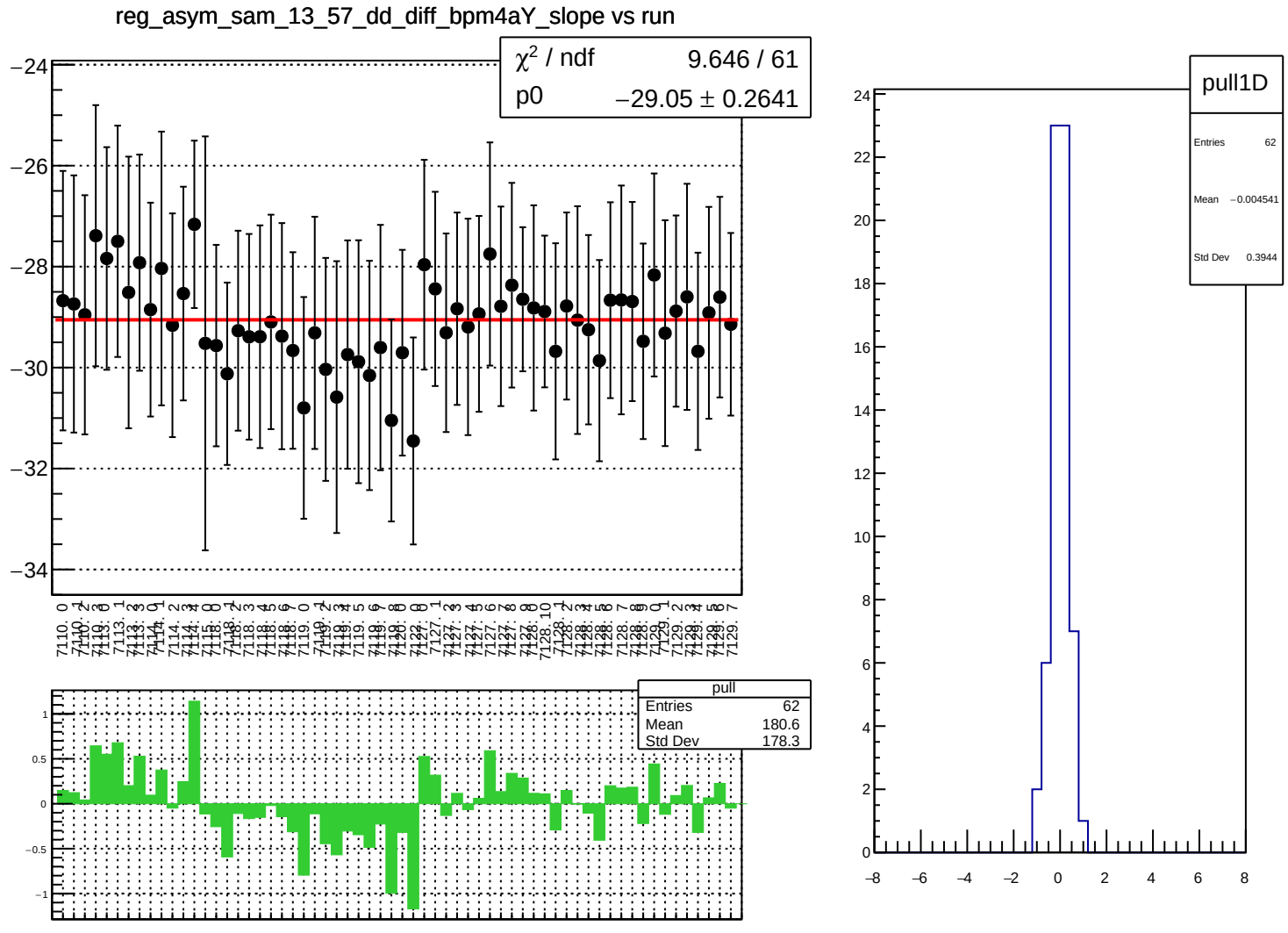

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 360.2 / 61
p0 −33.01 ± 0.9793
pull
Entries 62
Mean 121.2
Std Dev 83.94
pull1D
Entries 62
Mean −0.2001
Std Dev 2.402

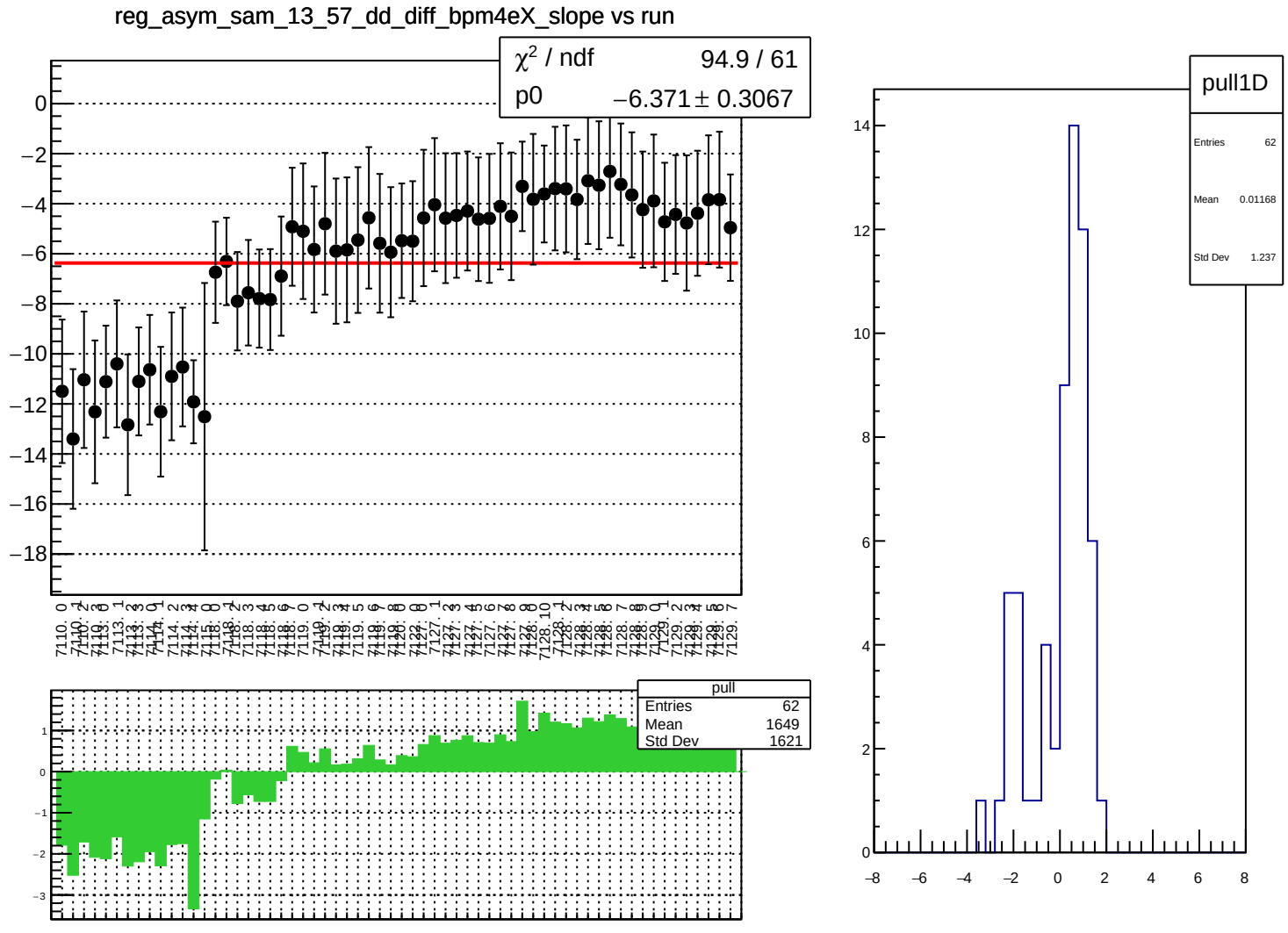

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 109.3 / 61
p0 71.11 ± 0.8875
pull
Entries 62
Mean 1679
Std Dev 1637
pull1D
Entries 62
Mean 0.004106
Std Dev 1.327

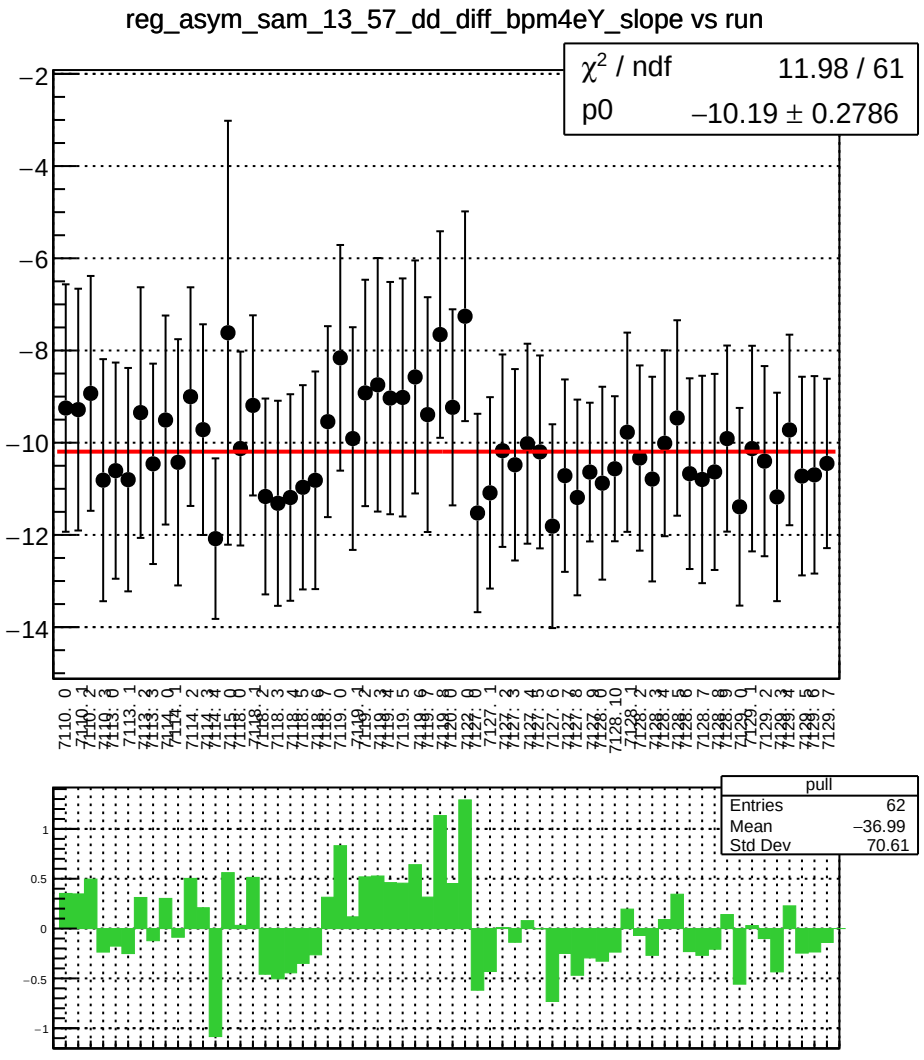

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 89.47 / 61
p0 −0.5606 ± 0.04018
pull
Entries 62
Mean −150.2
Std Dev 181.5

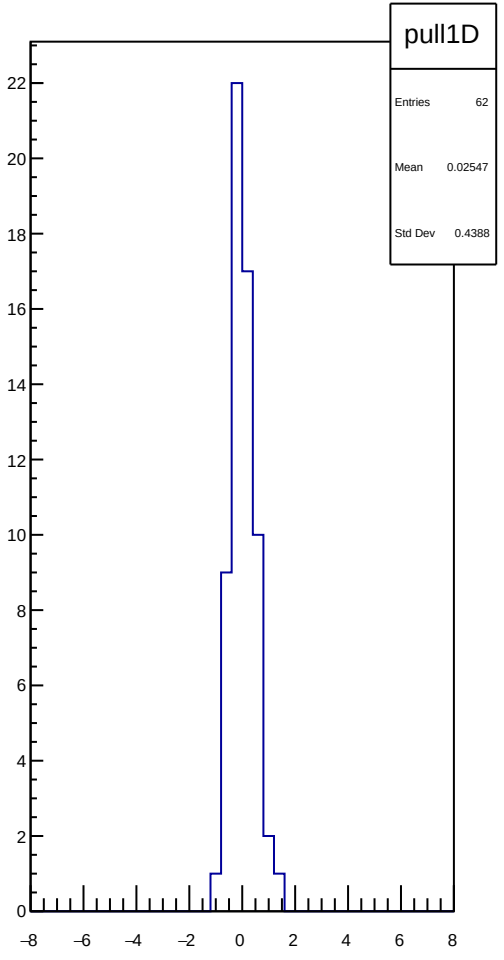

pull1D
Entries 62
Mean −0.08814
Std Dev 1.198

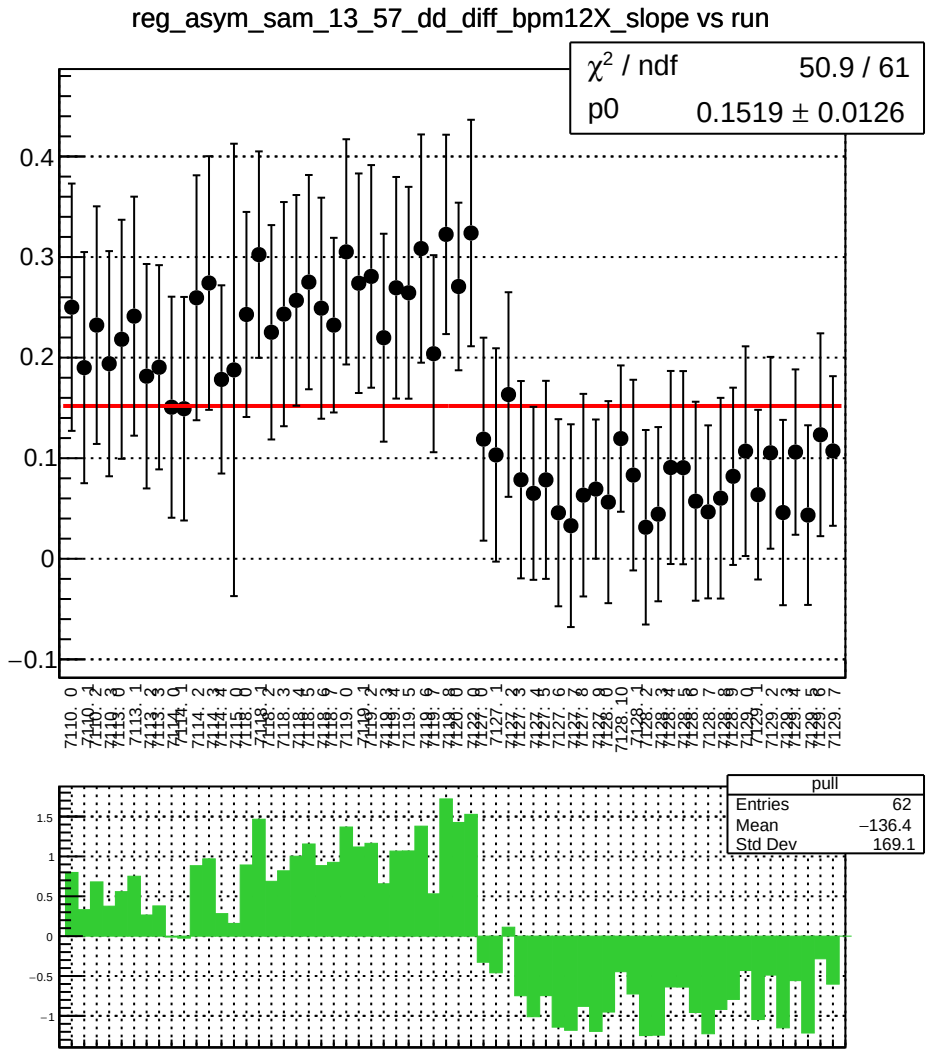

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 53.01 / 61
p0 −9.899 ± 0.3087
pull
Entries 62
Mean 375.5
Std Dev 352.1
pull1D
Entries 62
Mean 0.02166
Std Dev 0.9244

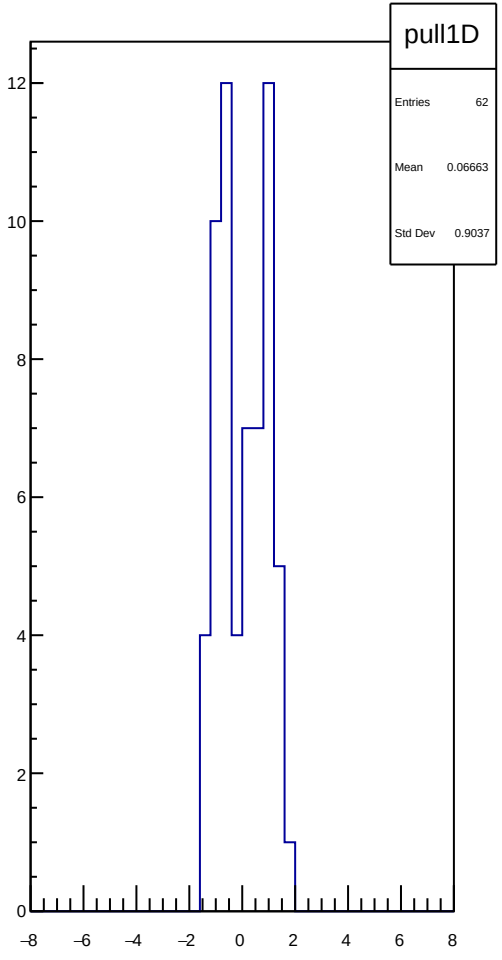

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.646 / 61
p0 −29.05 ± 0.2641
pull
Entries 62
Mean 180.6
Std Dev 178.3
pull1D
Entries 62
Mean −0.004541
Std Dev 0.3944

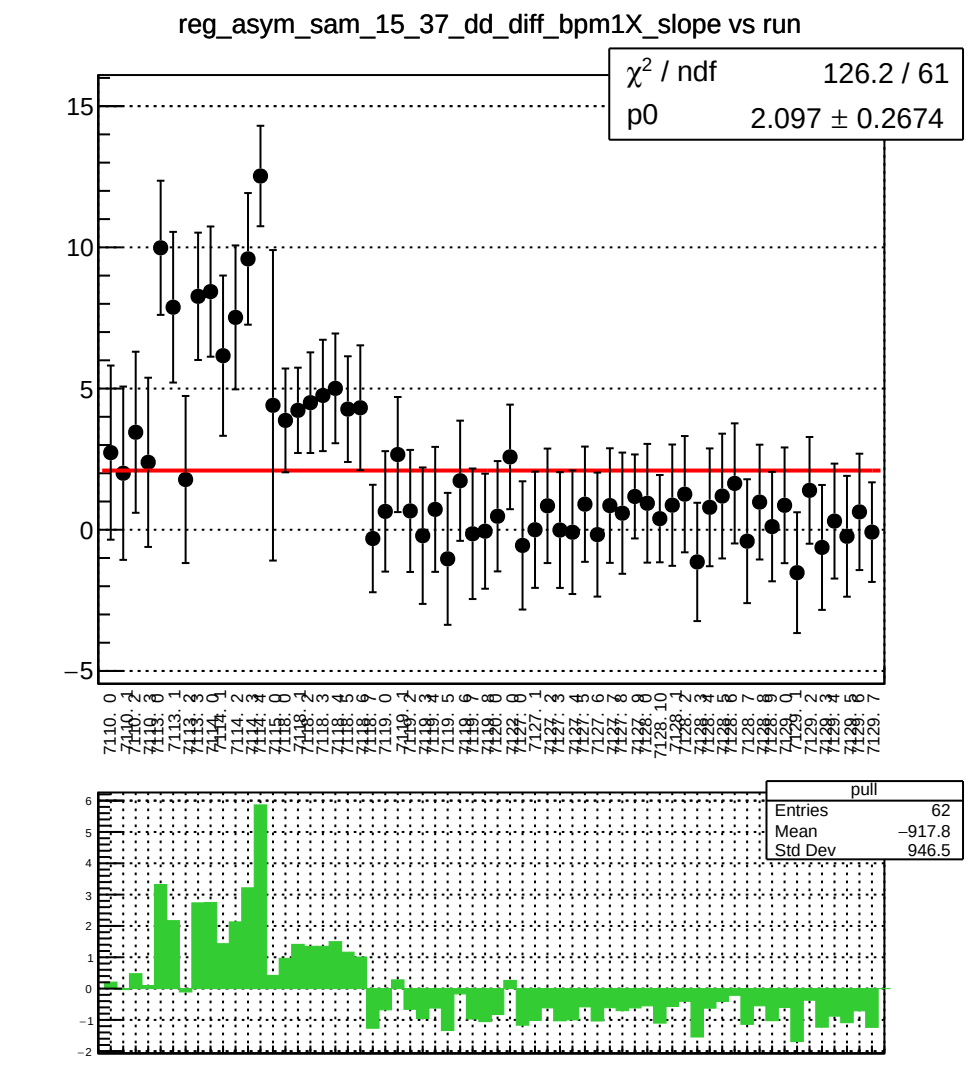

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 94.9 / 61
p0 −6.371 ± 0.3067
pull
Entries 62
Mean 1649
Std Dev 1621
pull1D
Entries 62
Mean 0.01168
Std Dev 1.237

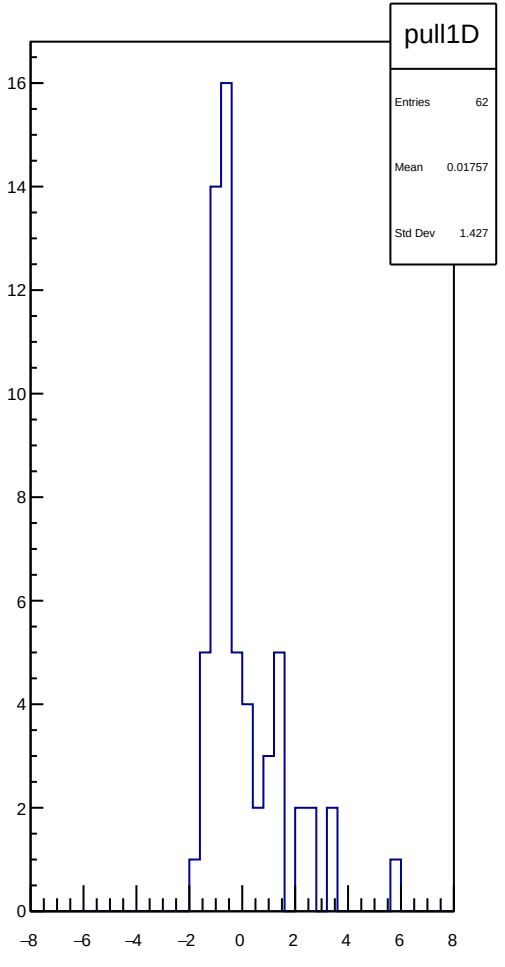

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.98 / 61
p0 −10.19 ± 0.2786
pull
Entries 62
Mean −36.99
Std Dev 70.61

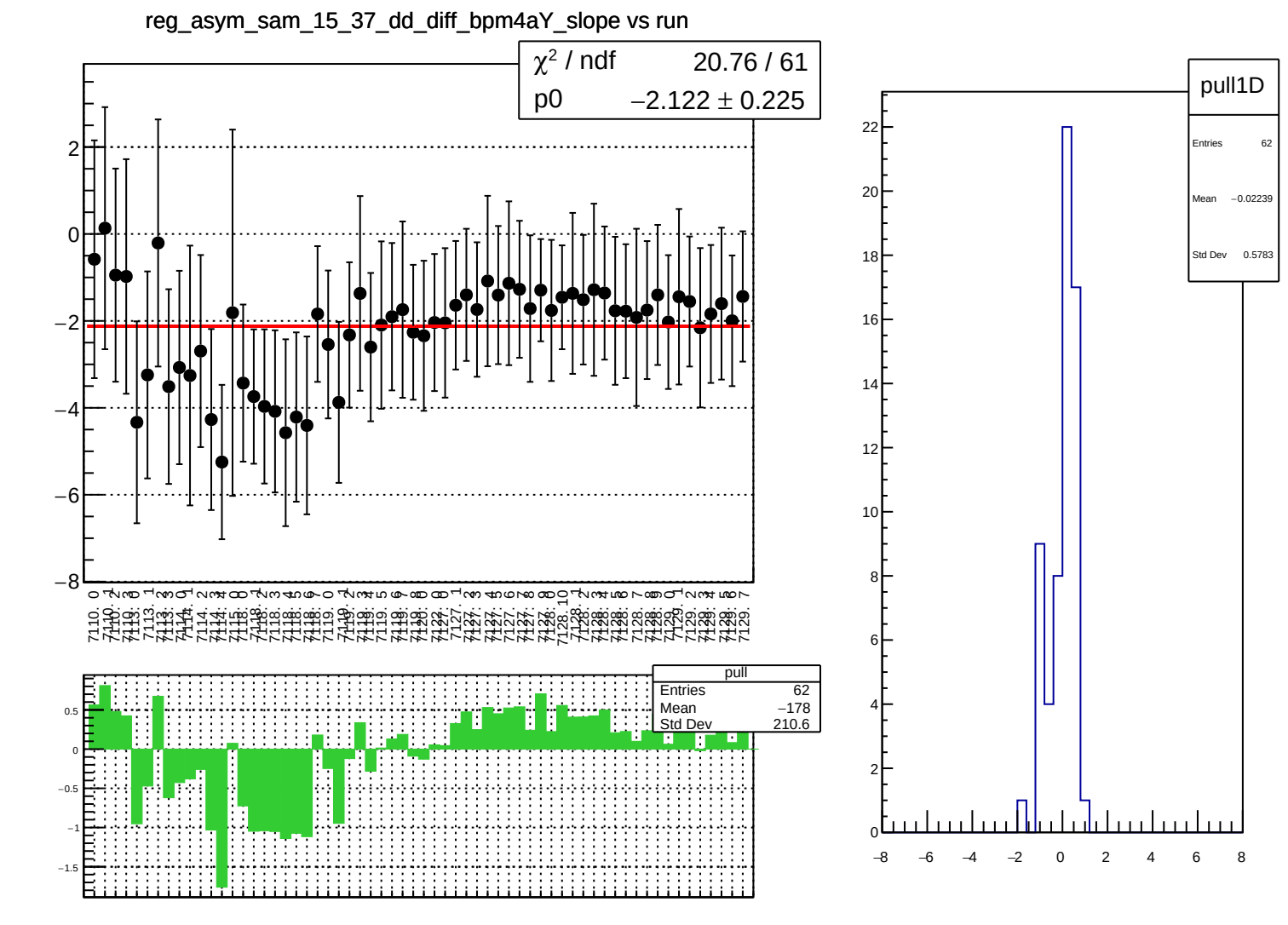

pull1D
Entries 62
Mean 0.02547
Std Dev 0.4388

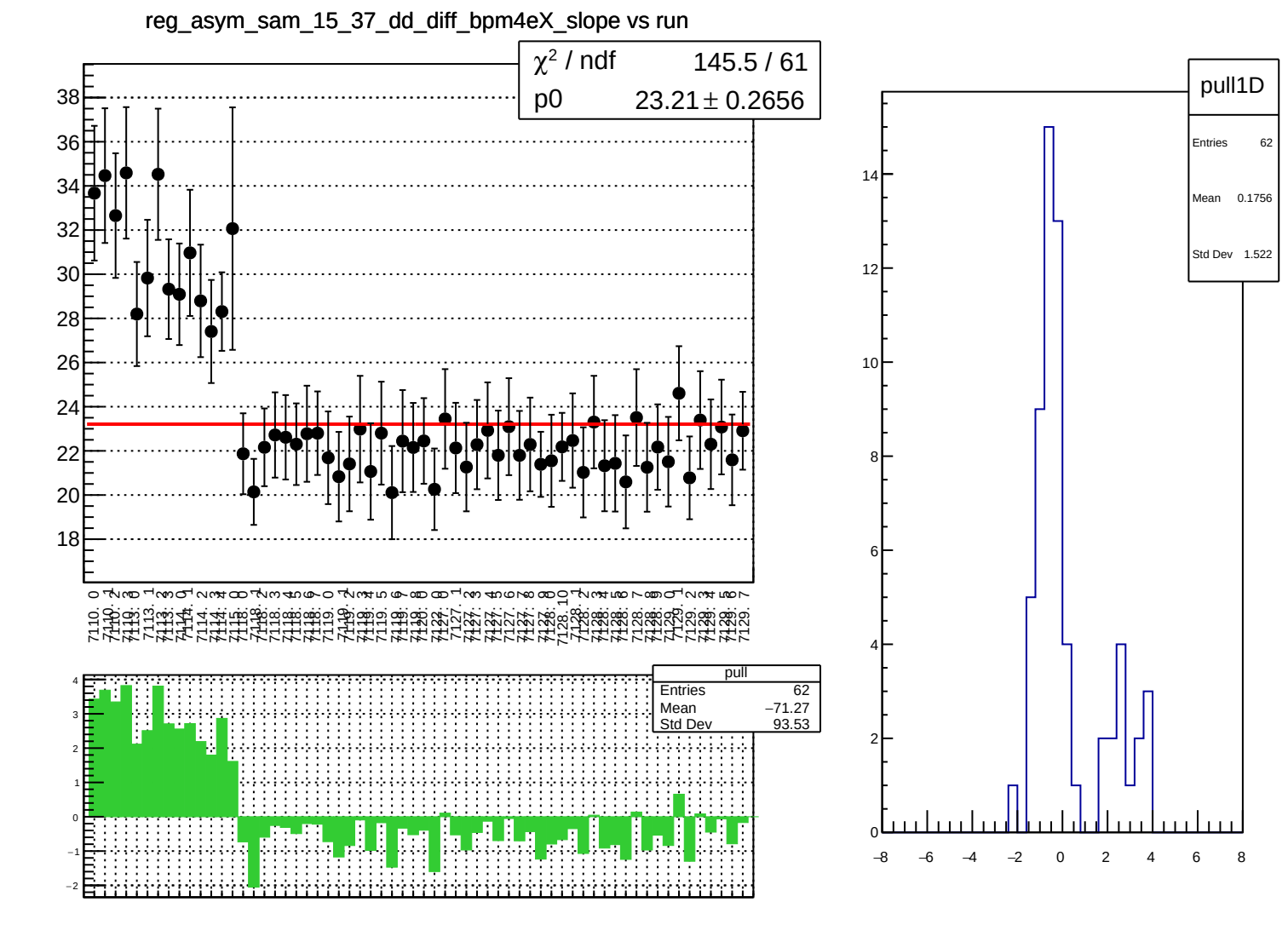

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 50.9 / 61
p0 0.1519 ± 0.0126
pull
Entries 62
Mean −136.4
Std Dev 169.1

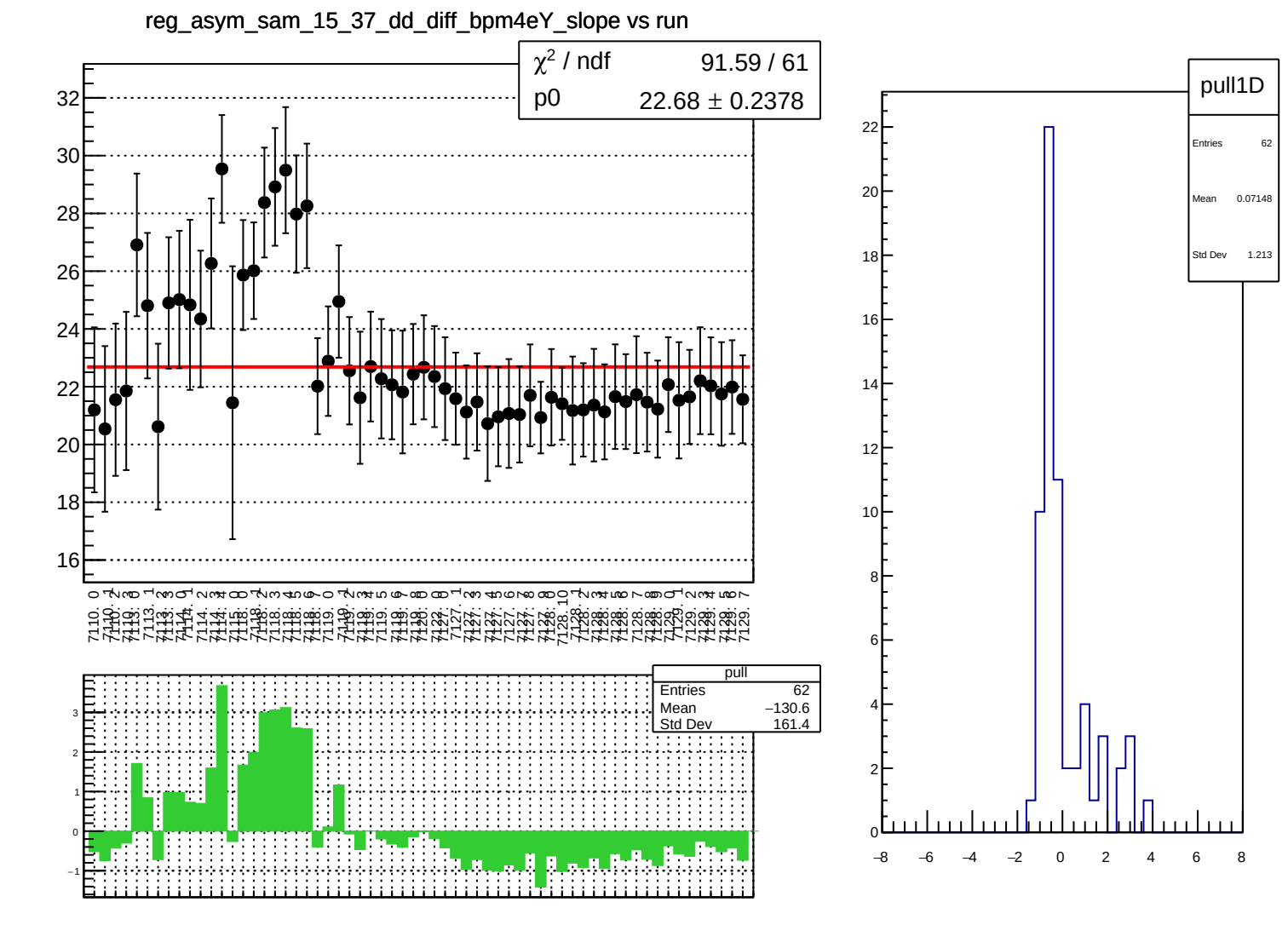

pull1D
Entries 62
Mean 0.06663
Std Dev 0.9037

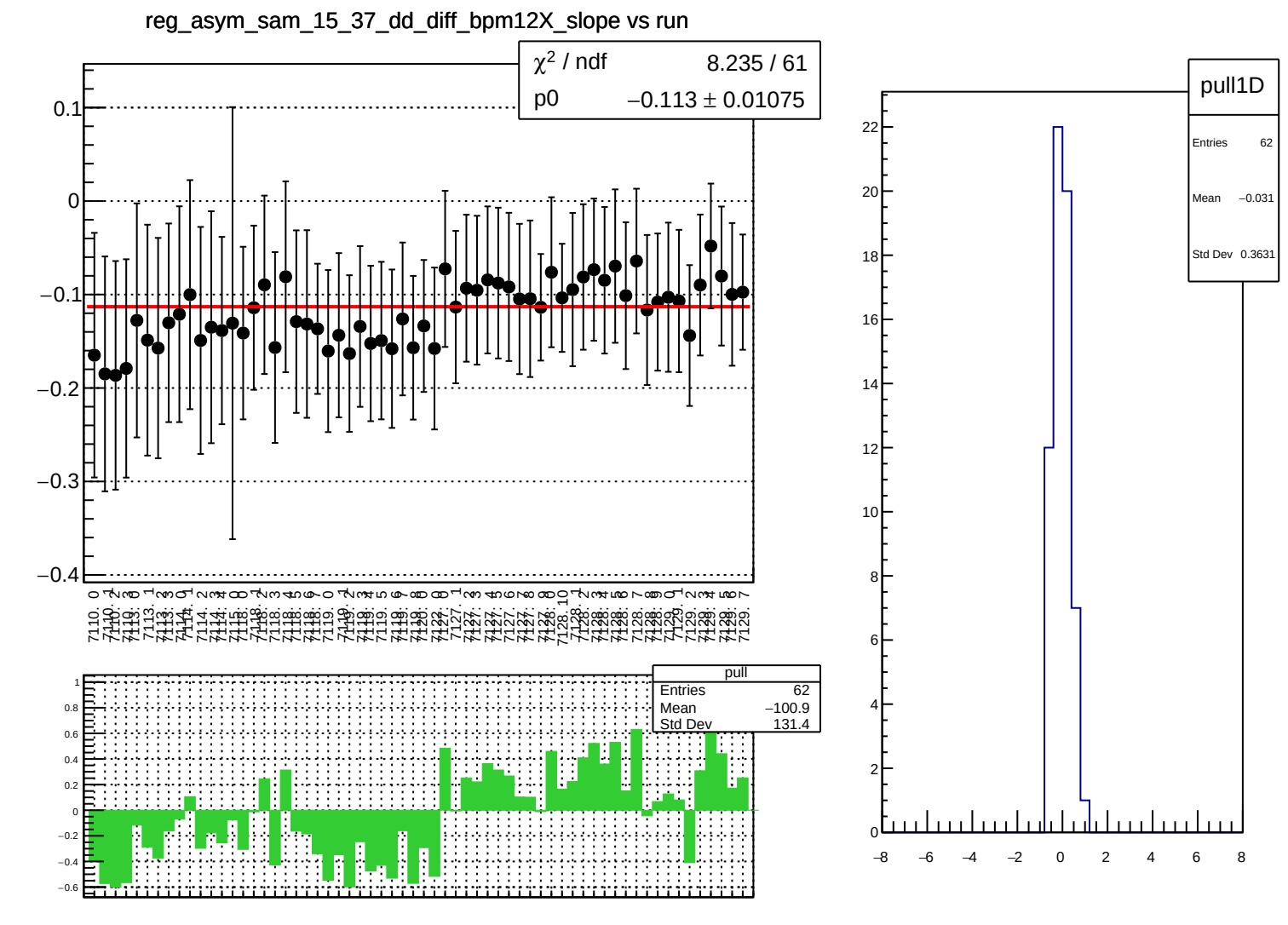

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 126.2 / 61
p0 2.097 ± 0.2674
pull
Entries 62
Mean −917.8
Std Dev 946.5

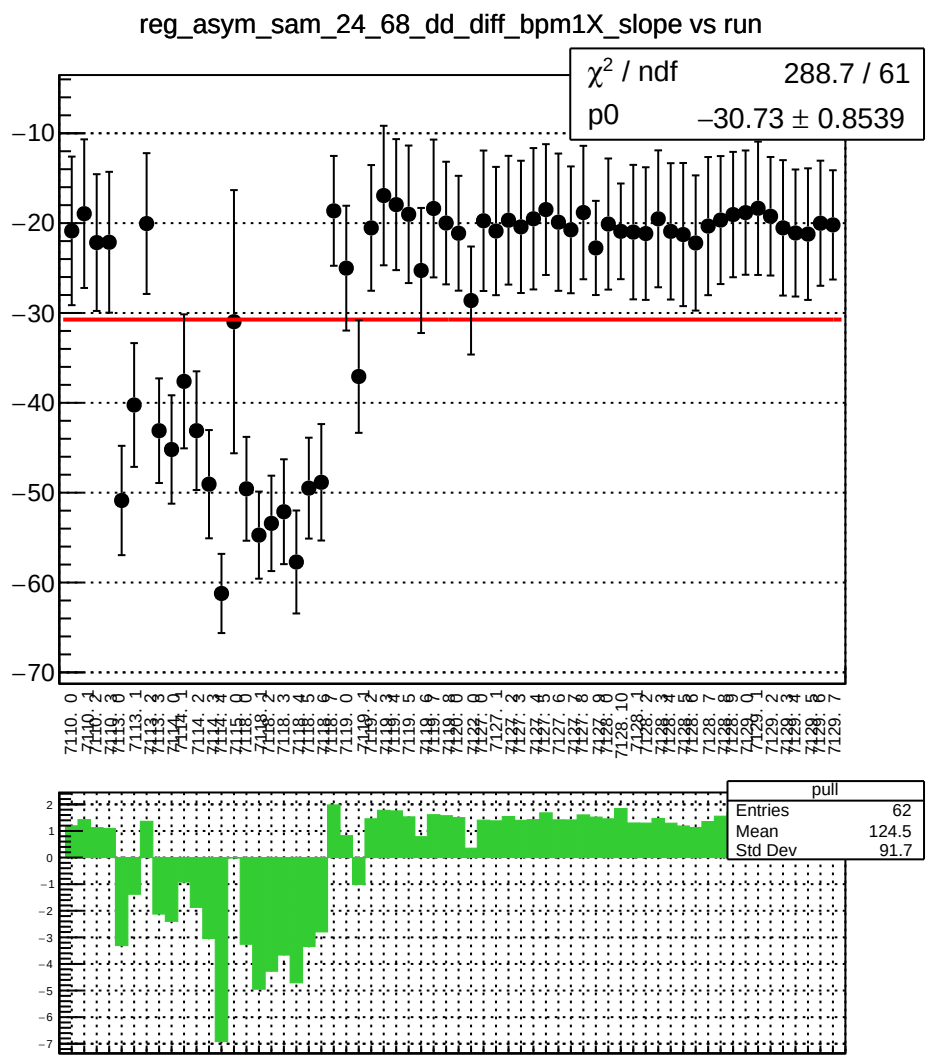

pull1D
Entries 62
Mean 0.01757
Std Dev 1.427

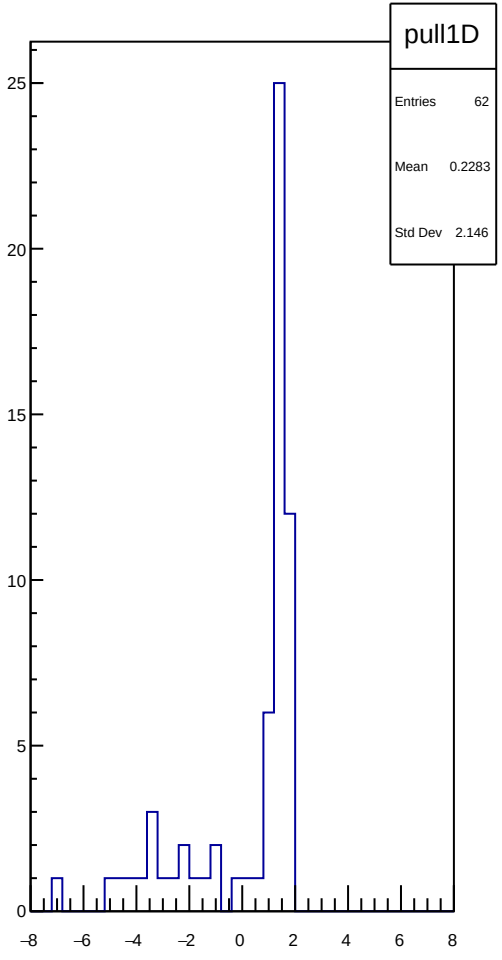

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.76 / 61
p0 −2.122 ± 0.225
pull
Entries 62
Mean −178
Std Dev 210.6
pull1D
Entries 62
Mean −0.02239
Std Dev 0.5783

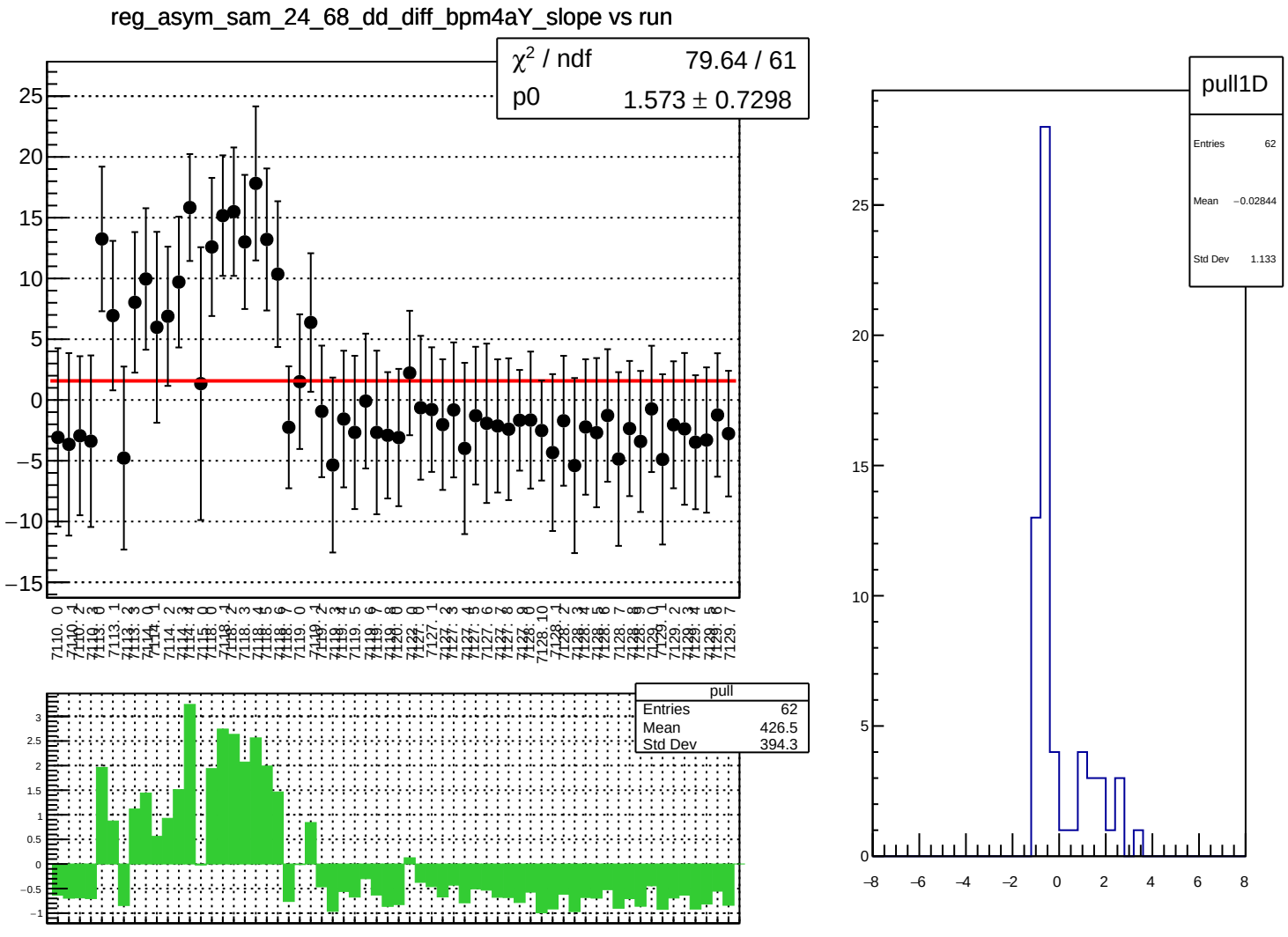

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 145.5 / 61
p0 23.21 ± 0.2656
pull
Entries 62
Mean −71.27
Std Dev 93.53
pull1D
Entries 62
Mean 0.1756
Std Dev 1.522

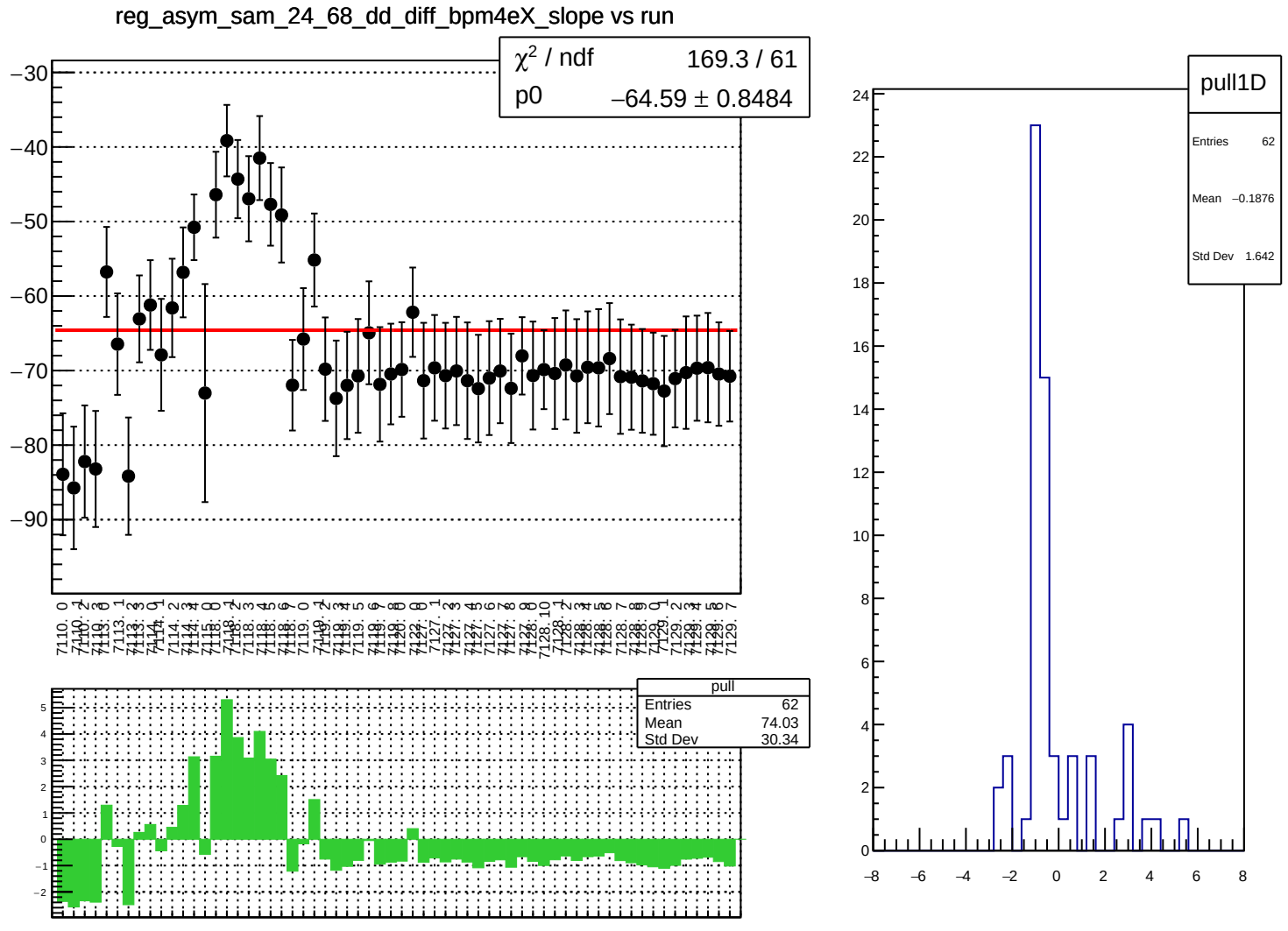

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 91.59 / 61
p0 22.68 ± 0.2378
pull
Entries 62
Mean −130.6
Std Dev 161.4
pull1D
Entries 62
Mean 0.07148
Std Dev 1.213

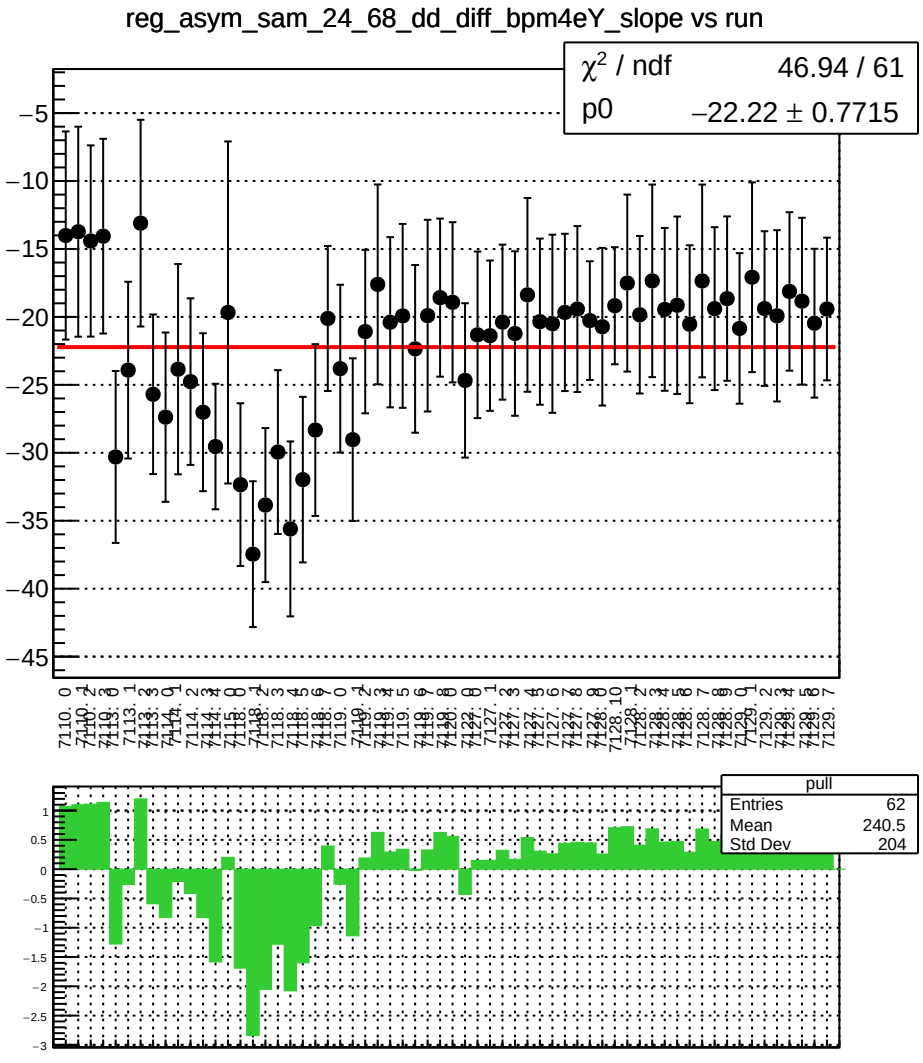

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 8.235 / 61
p0 −0.113 ± 0.01075
pull
Entries 62
Mean −100.9
Std Dev 131.4
pull1D
Entries 62
Mean −0.031
Std Dev 0.3631

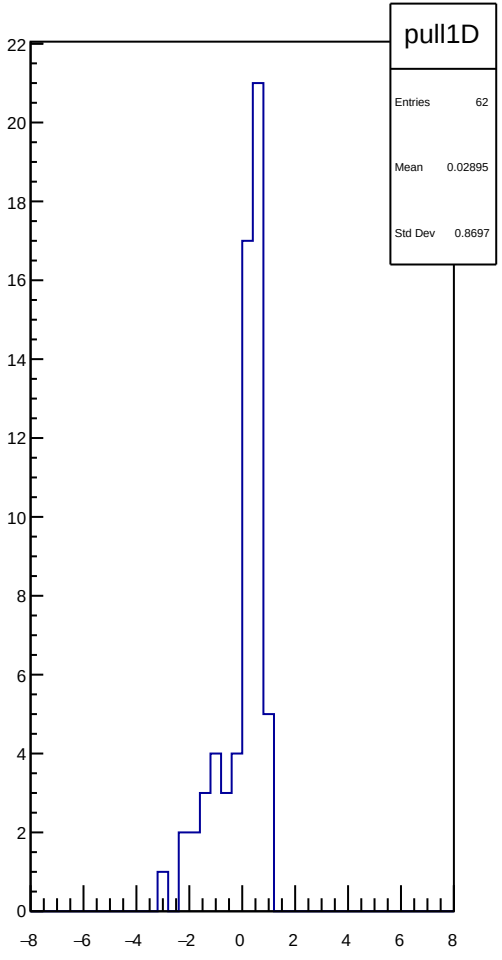

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 288.7 / 61
p0 −30.73 ± 0.8539
pull
Entries 62
Mean 124.5
Std Dev 91.7

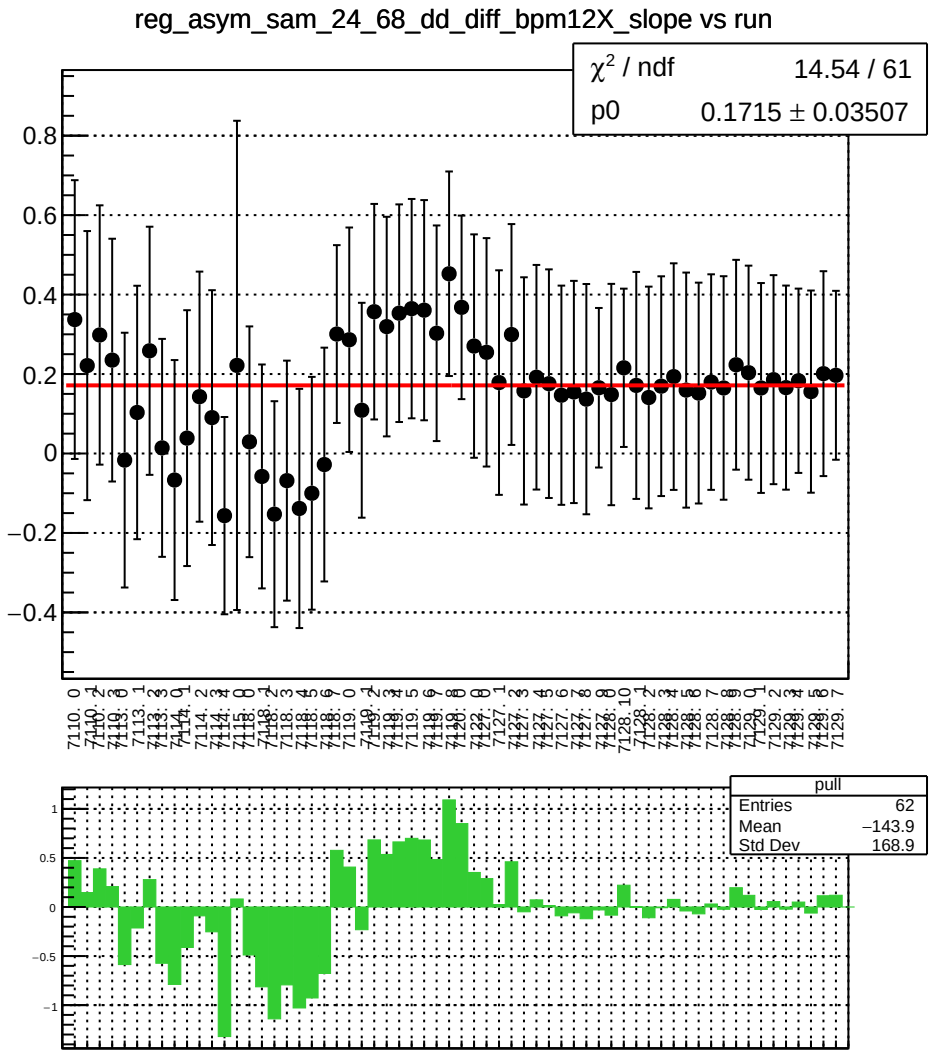

pull1D
Entries 62
Mean 0.2283
Std Dev 2.146

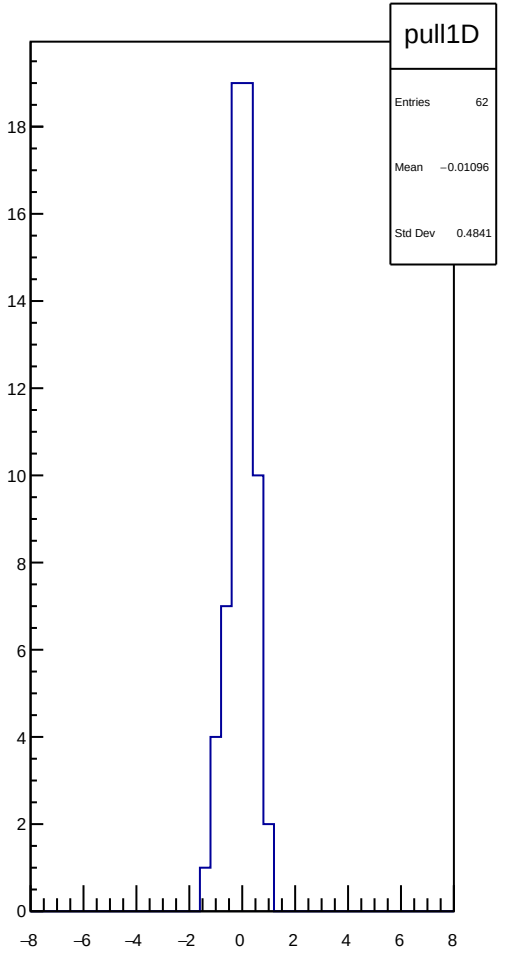

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.64 / 61
p0 1.573 ± 0.7298
pull
Entries 62
Mean 426.5
Std Dev 394.3
pull1D
Entries 62
Mean −0.02844
Std Dev 1.133

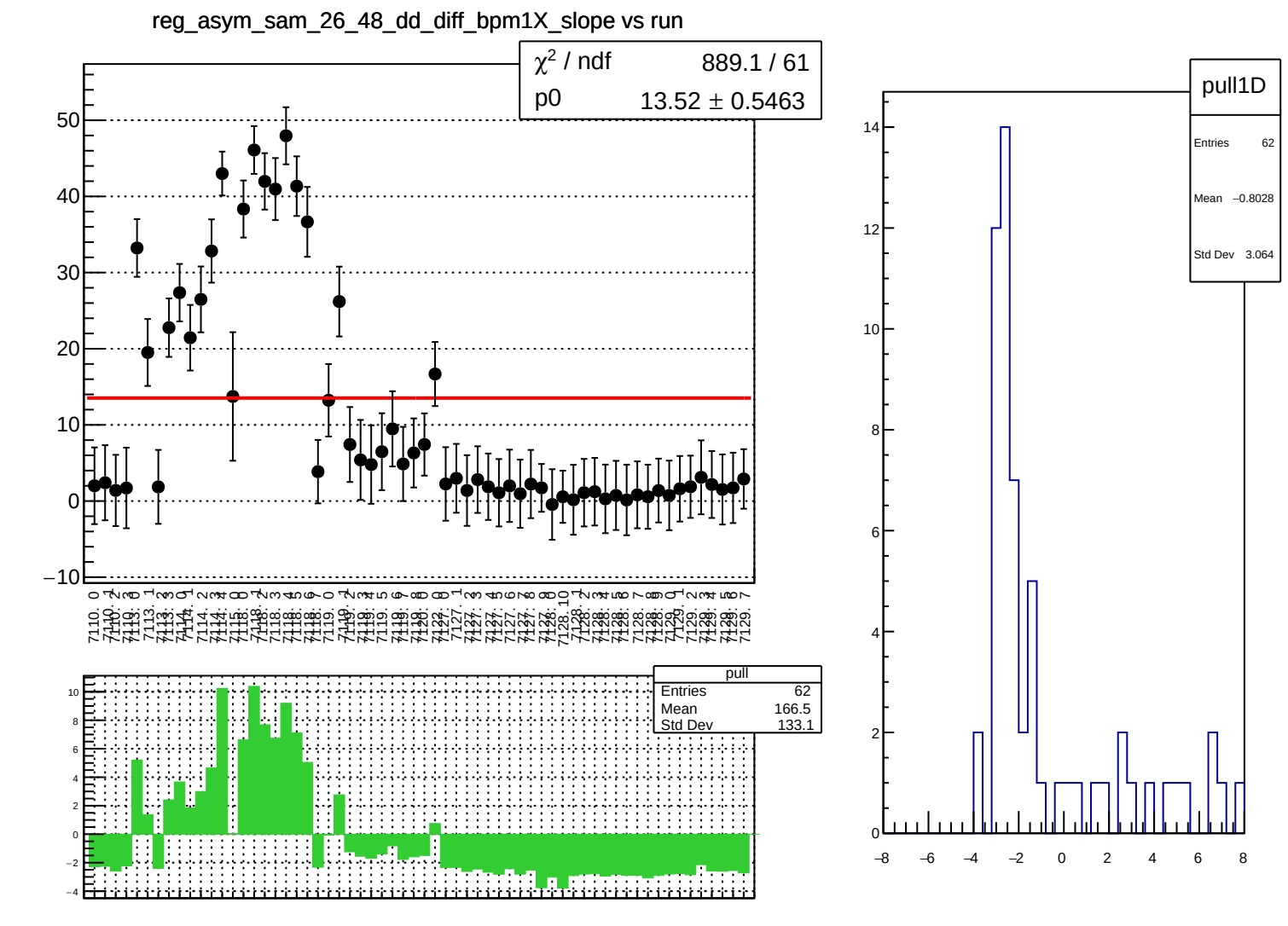

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 169.3 / 61
p0 −64.59 ± 0.8484
pull
Entries 62
Mean 74.03
Std Dev 30.34
pull1D
Entries 62
Mean −0.1876
Std Dev 1.642

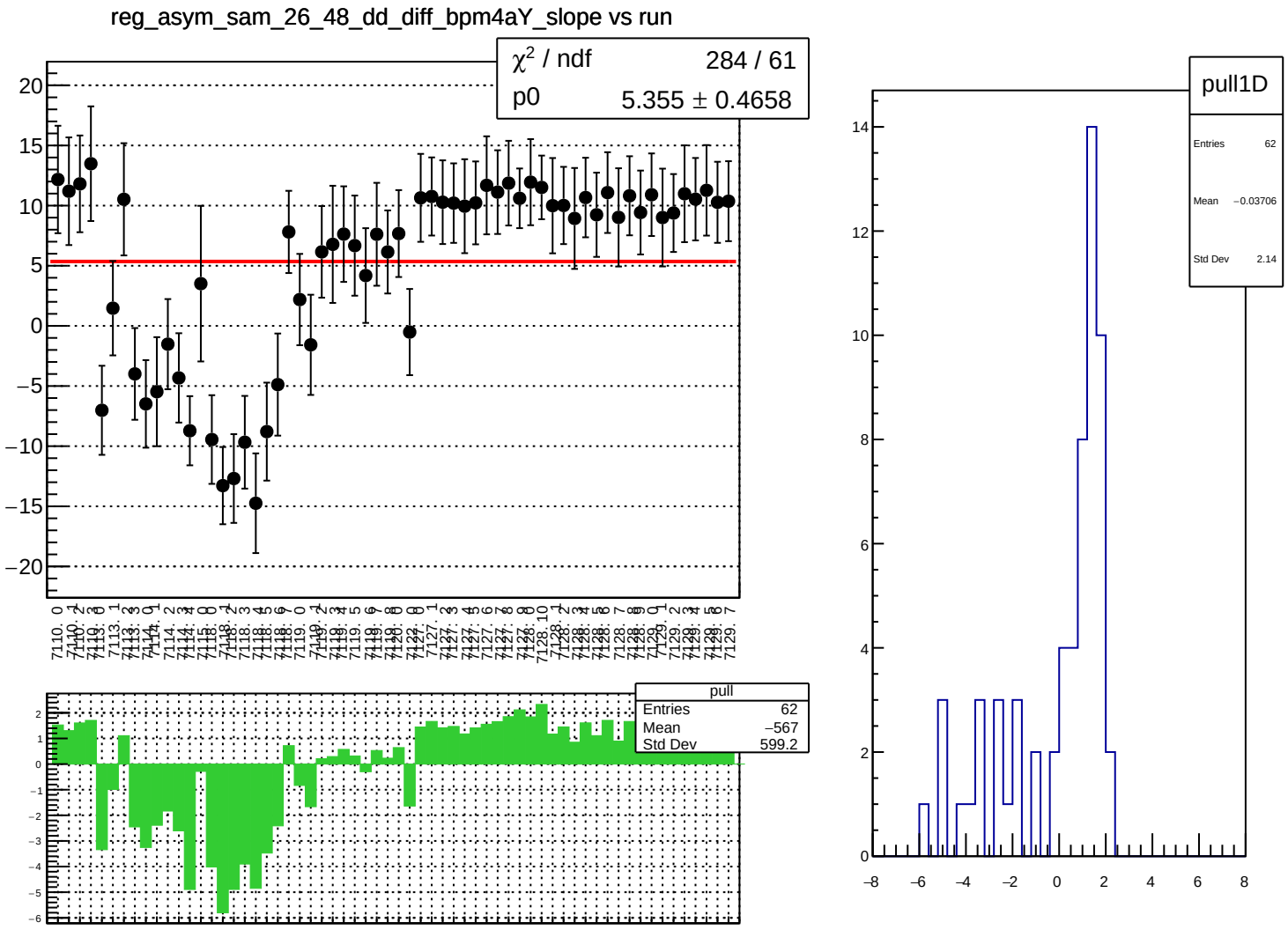

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.94 / 61
p0 −22.22 ± 0.7715
pull
Entries 62
Mean 240.5
Std Dev 204

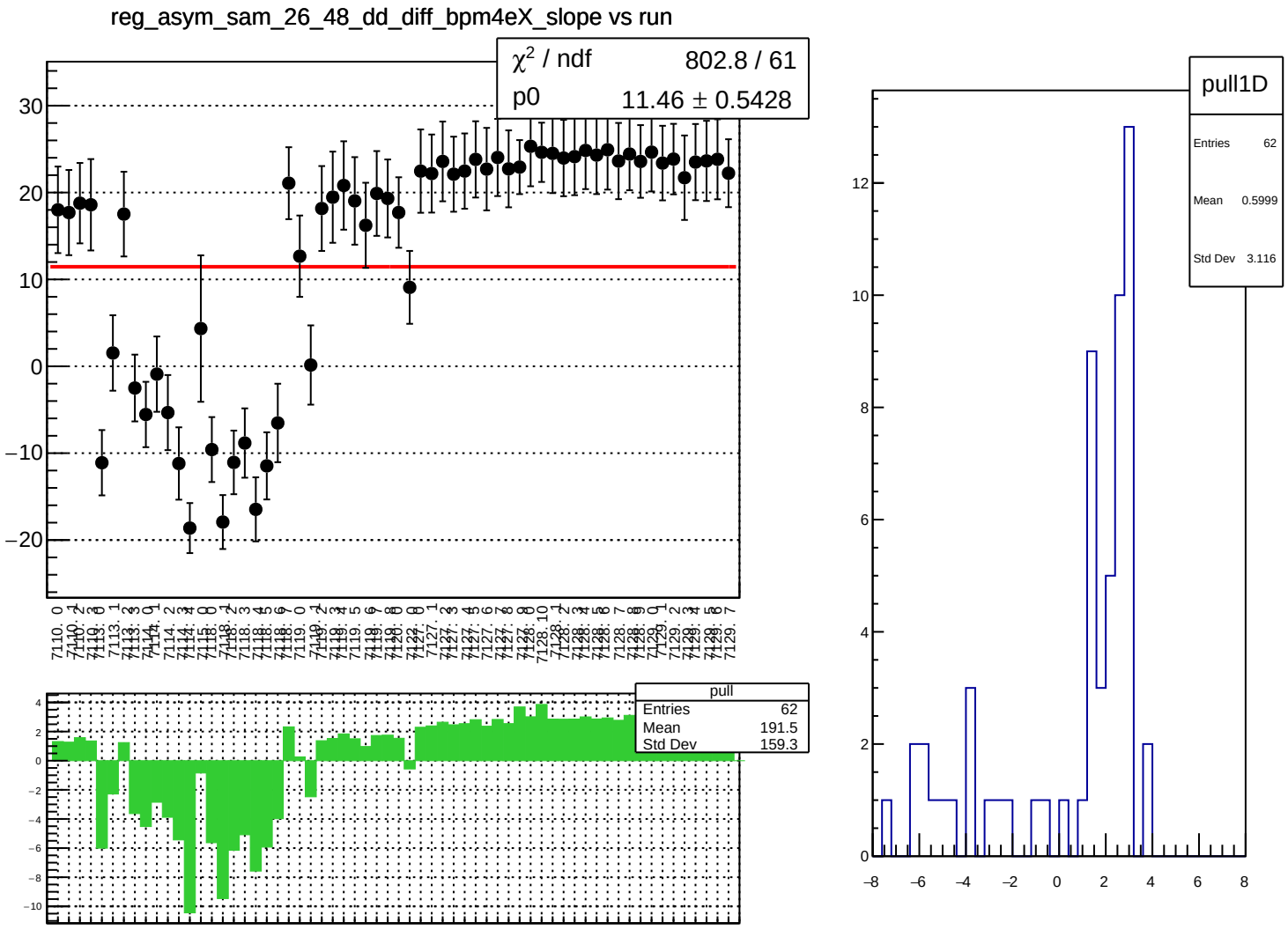

pull1D
Entries 62
Mean 0.02895
Std Dev 0.8697

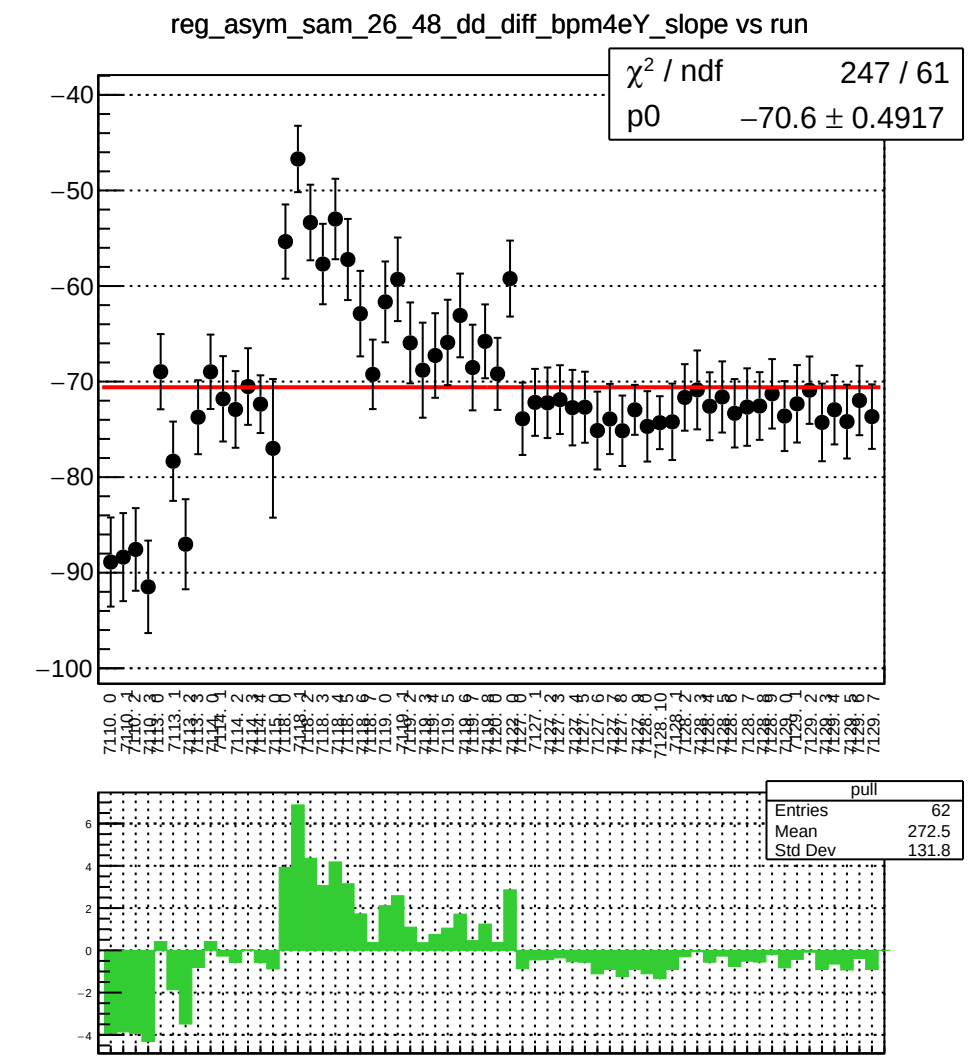

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 14.54 / 61
p0 0.1715 ± 0.03507
pull
Entries 62
Mean −143.9
Std Dev 168.9

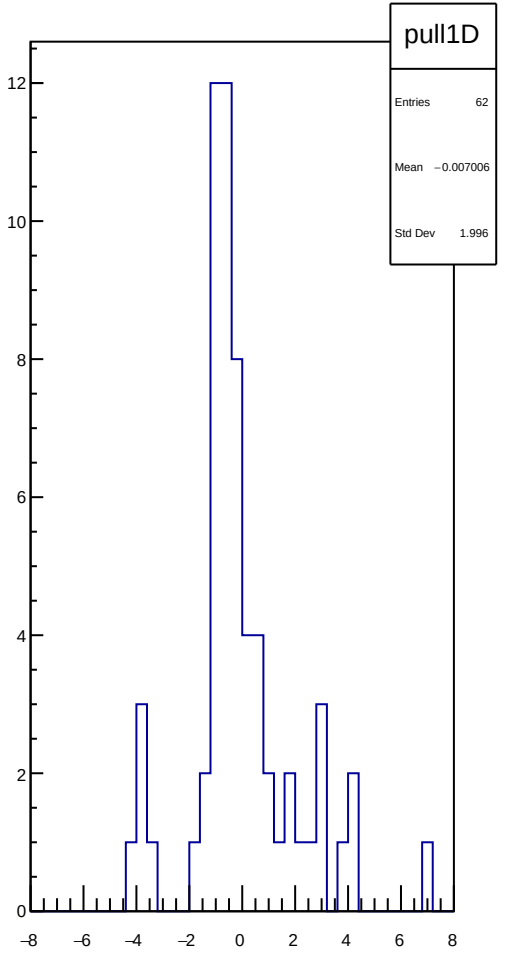

pull1D
Entries 62
Mean −0.01096
Std Dev 0.4841

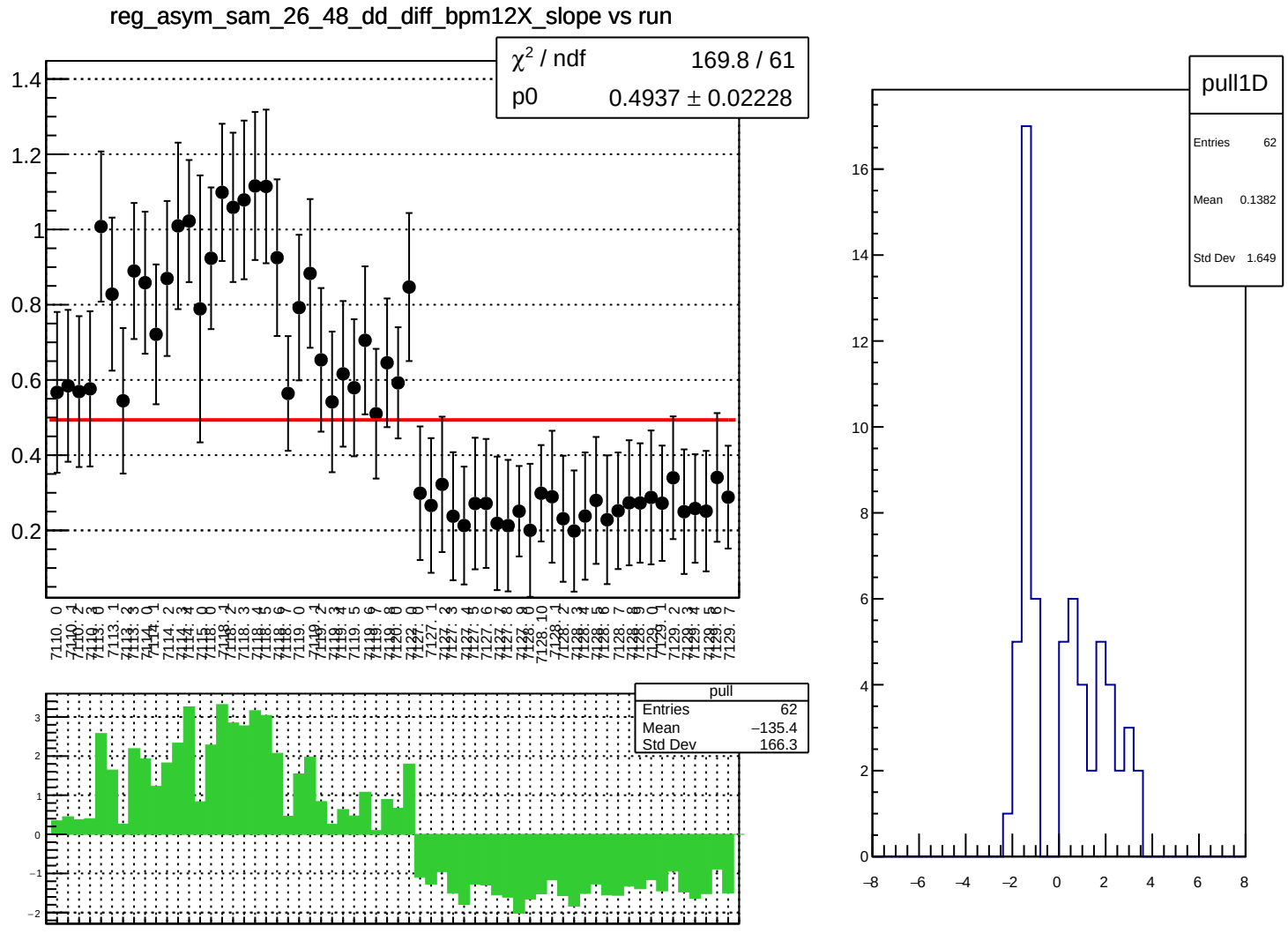

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 889.1 / 61
p0 13.52 ± 0.5463
pull
Entries 62
Mean 166.5
Std Dev 133.1
pull1D
Entries 62
Mean −0.8028
Std Dev 3.064

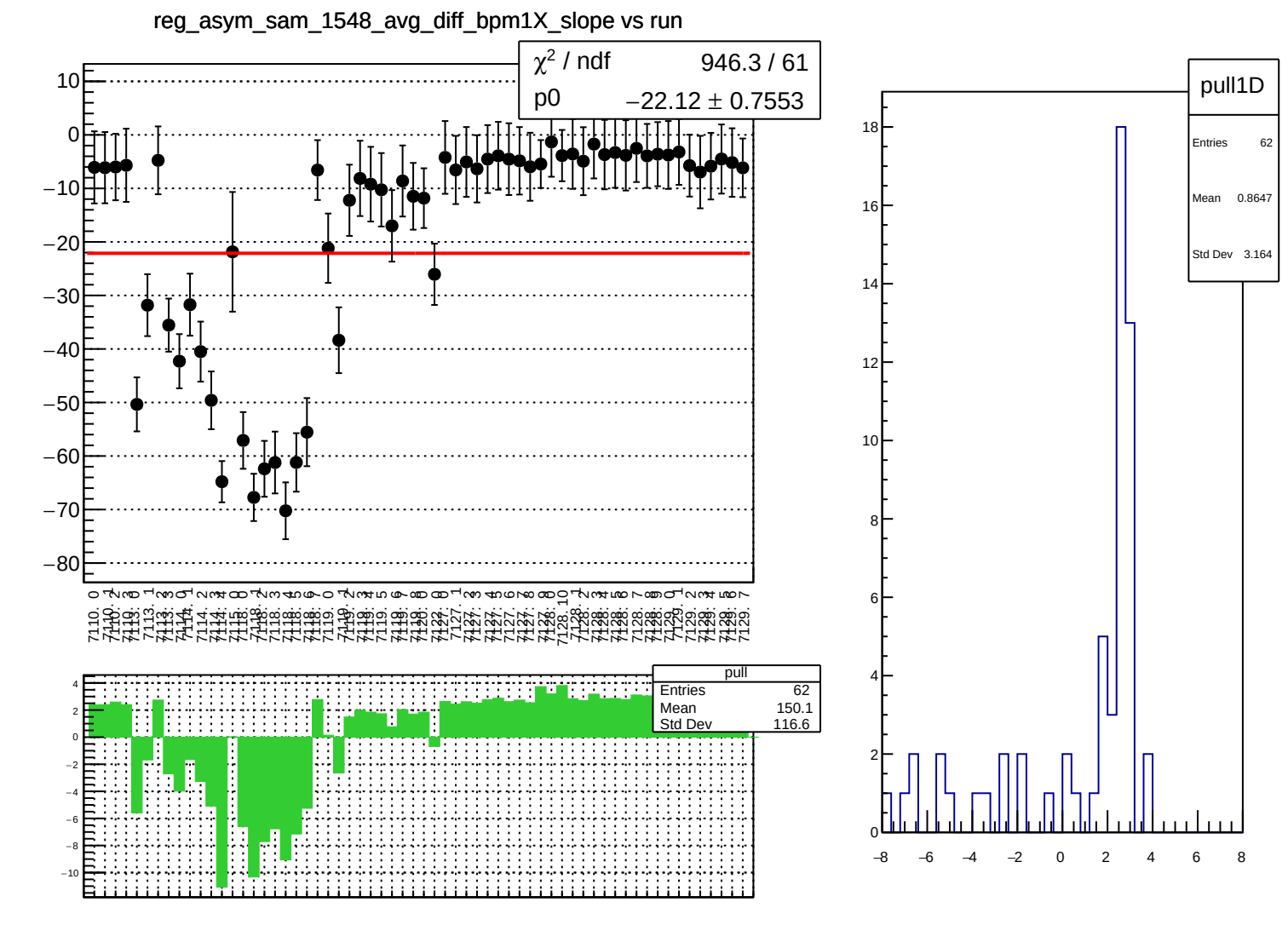

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 284 / 61
p0 5.355 ± 0.4658
pull
Entries 62
Mean −567
Std Dev 599.2
pull1D
Entries 62
Mean −0.03706
Std Dev 2.14

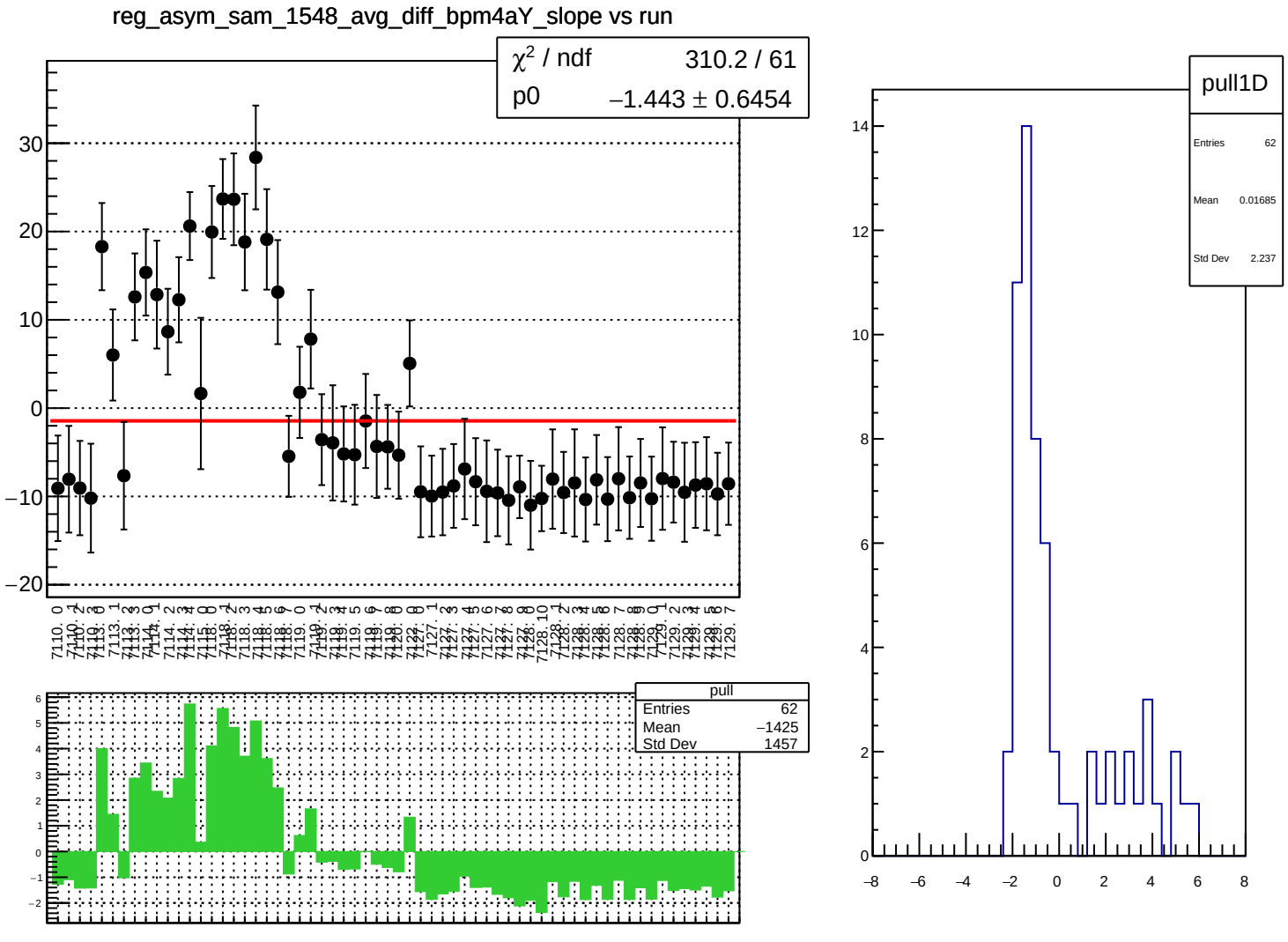

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 802.8 / 61
p0 11.46 ± 0.5428
pull
Entries 62
Mean 191.5
Std Dev 159.3
pull1D
Entries 62
Mean 0.5999
Std Dev 3.116

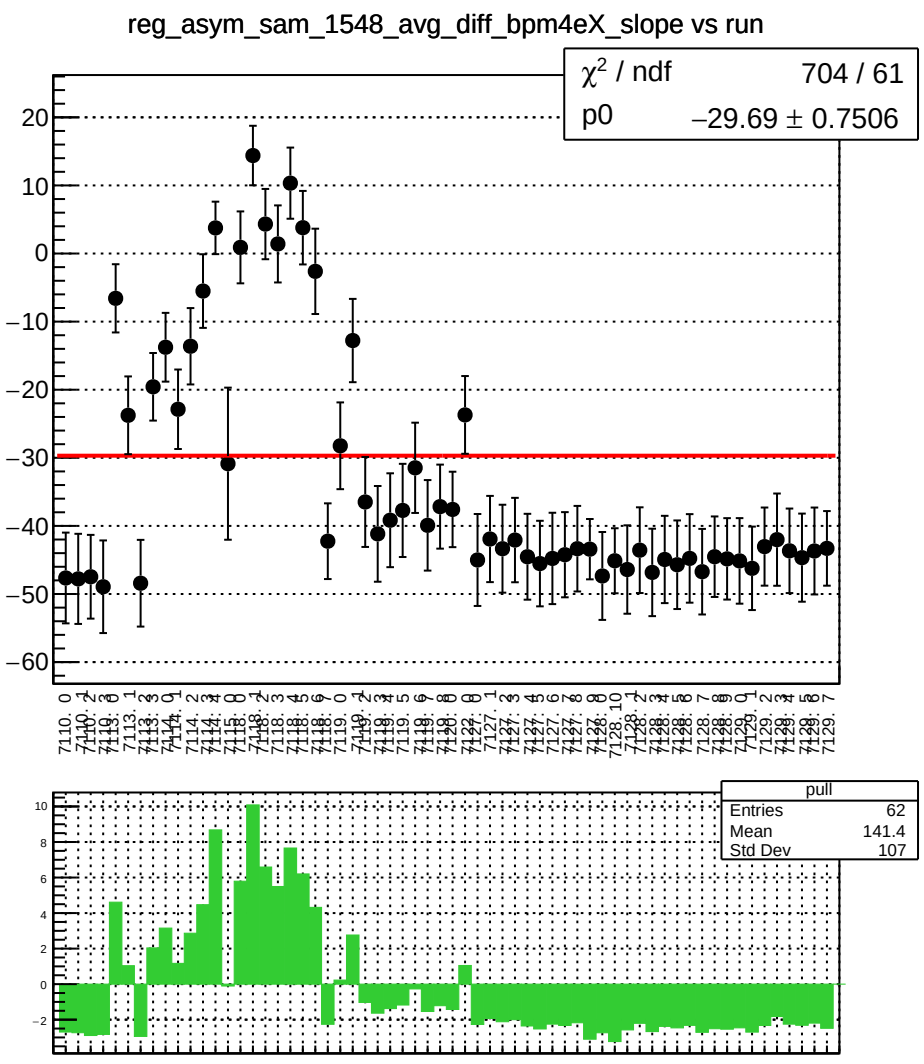

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 247 / 61
p0 −70.6 ± 0.4917
pull
Entries 62
Mean 272.5
Std Dev 131.8

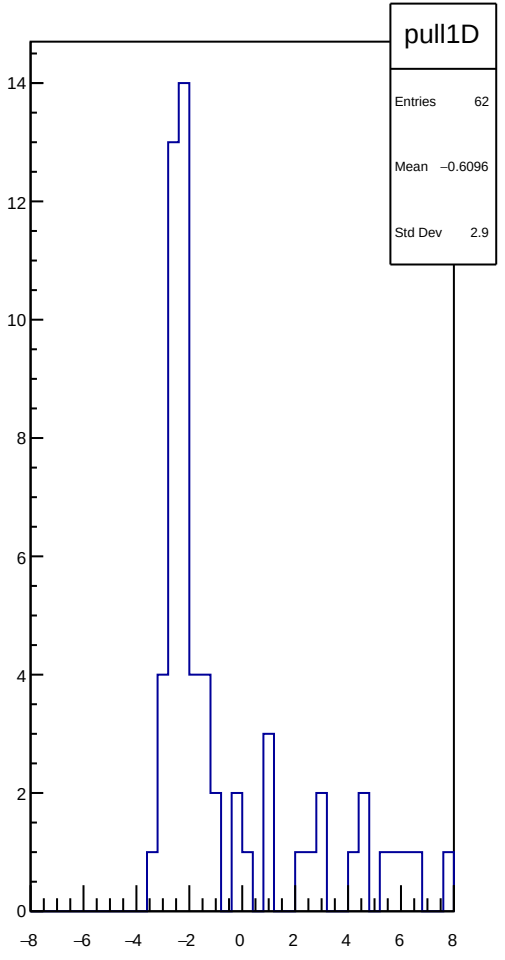

pull1D
Entries 62
Mean −0.007006
Std Dev 1.996

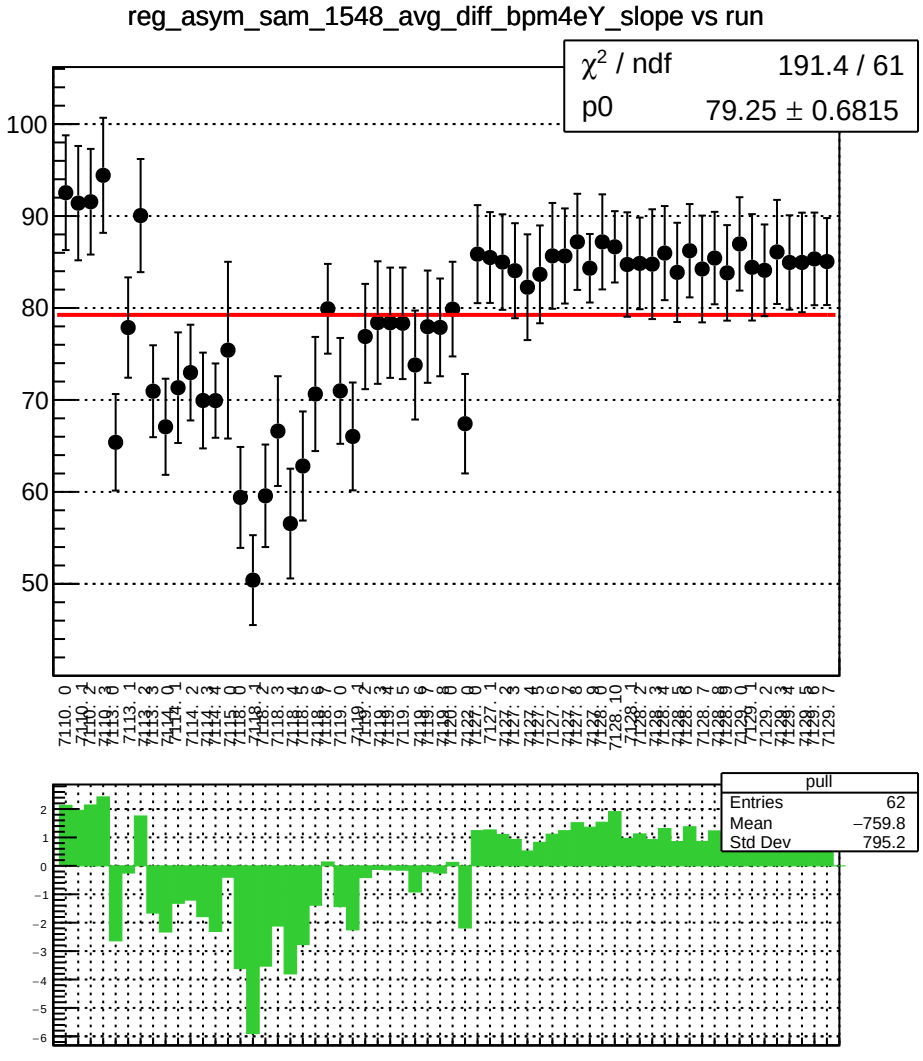

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 169.8 / 61
p0 0.4937 ± 0.02228
pull
Entries 62
Mean −135.4
Std Dev 166.3
pull1D
Entries 62
Mean 0.1382
Std Dev 1.649

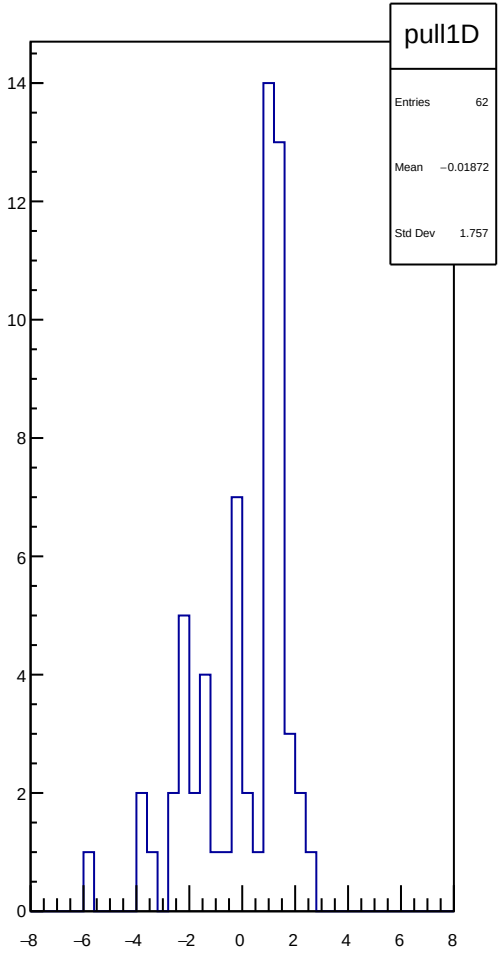

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 946.3 / 61
p0 −22.12 ± 0.7553
pull
Entries 62
Mean 150.1
Std Dev 116.6
pull1D
Entries 62
Mean 0.8647
Std Dev 3.164

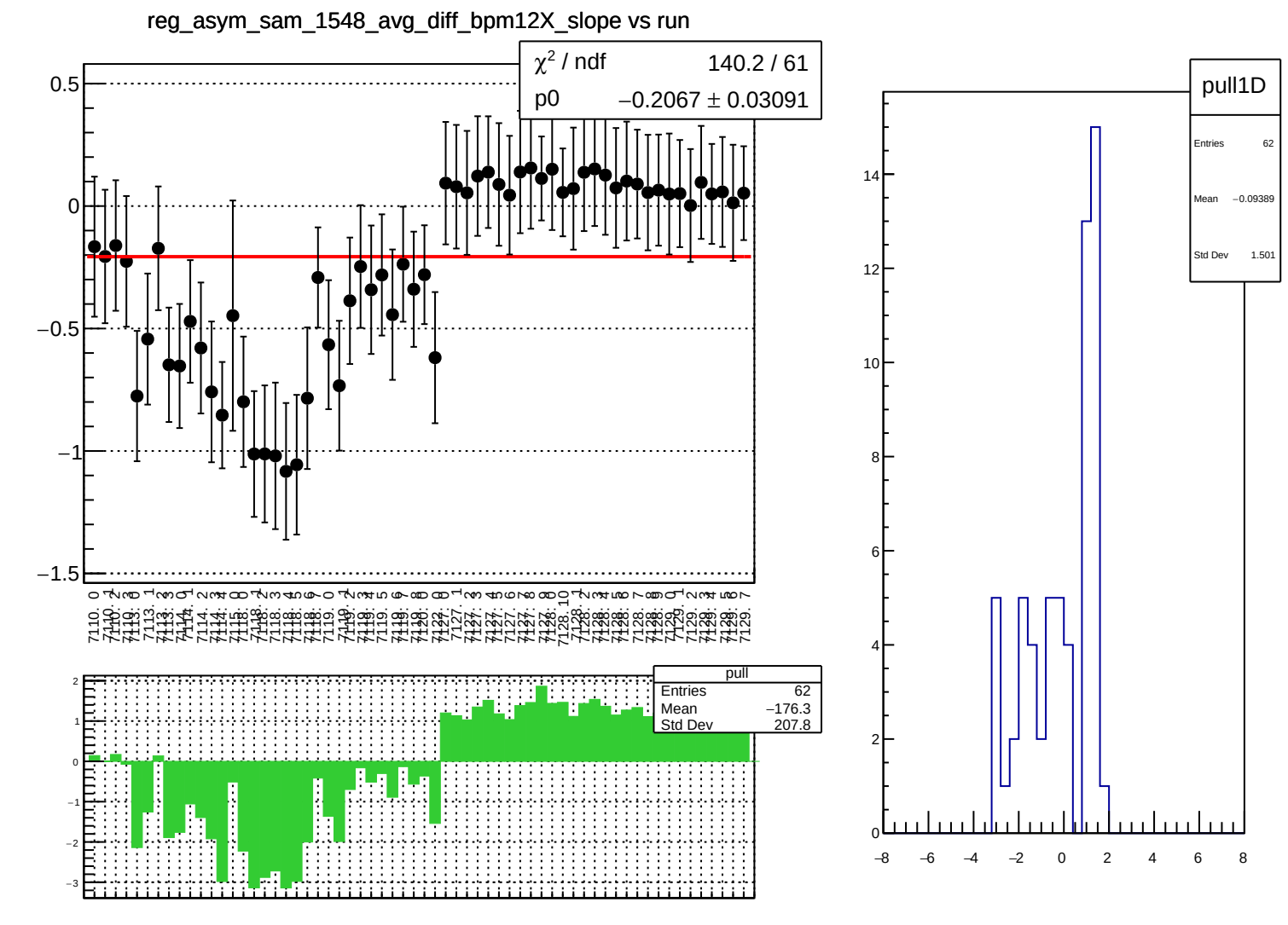

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 310.2 / 61
p0 −1.443 ± 0.6454
pull
Entries 62
Mean −1425
Std Dev 1457
pull1D
Entries 62
Mean 0.01685
Std Dev 2.237

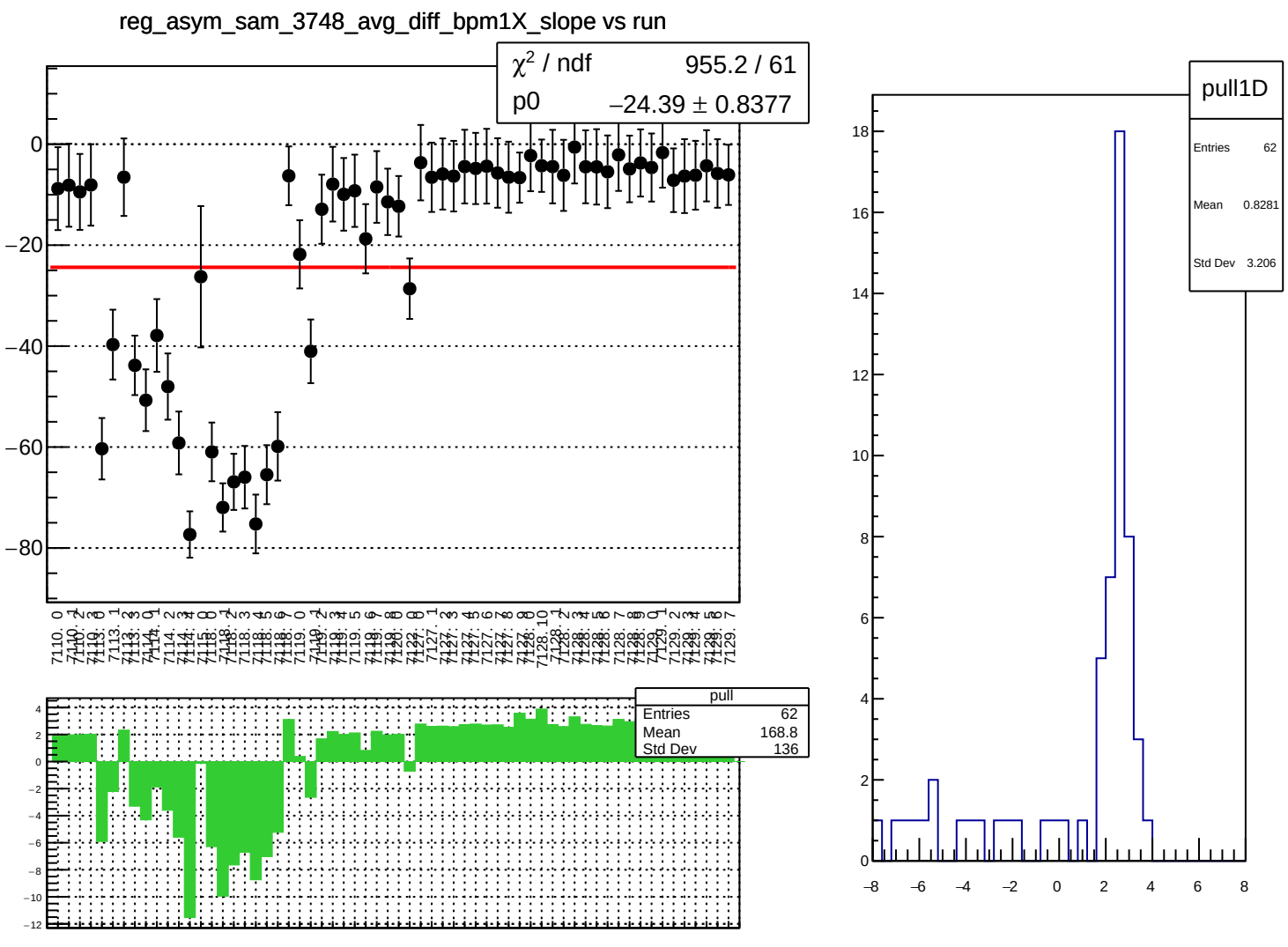

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 704 / 61
p0 −29.69 ± 0.7506
pull
Entries 62
Mean 141.4
Std Dev 107

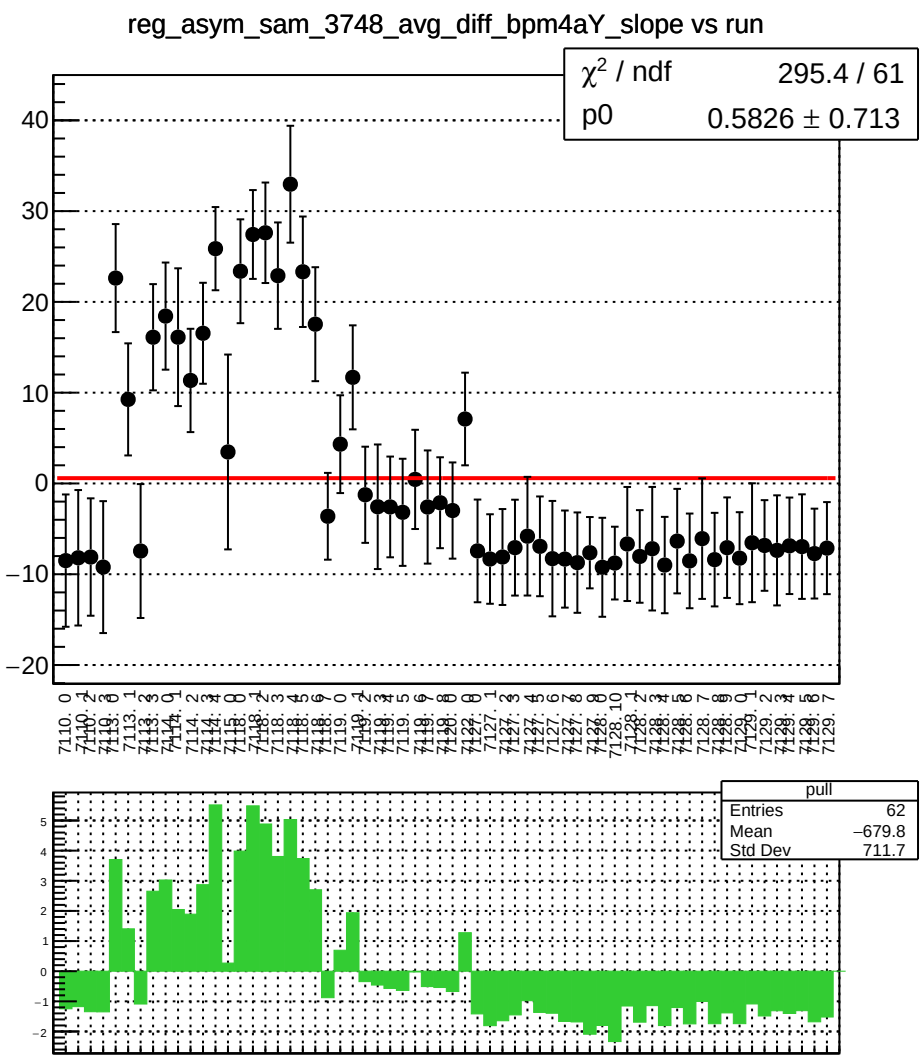

pull1D
Entries 62
Mean −0.6096
Std Dev 2.9

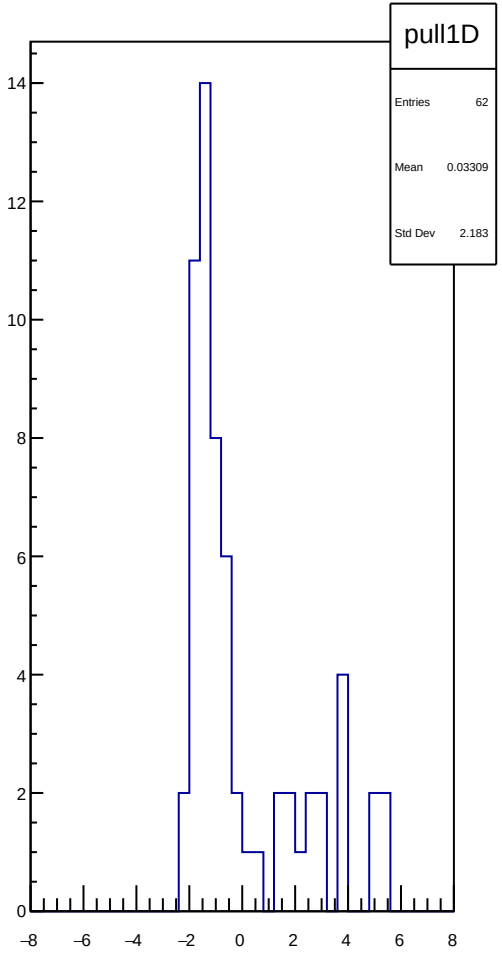

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 191.4 / 61
p0 79.25 ± 0.6815
pull
Entries 62
Mean −759.8
Std Dev 795.2

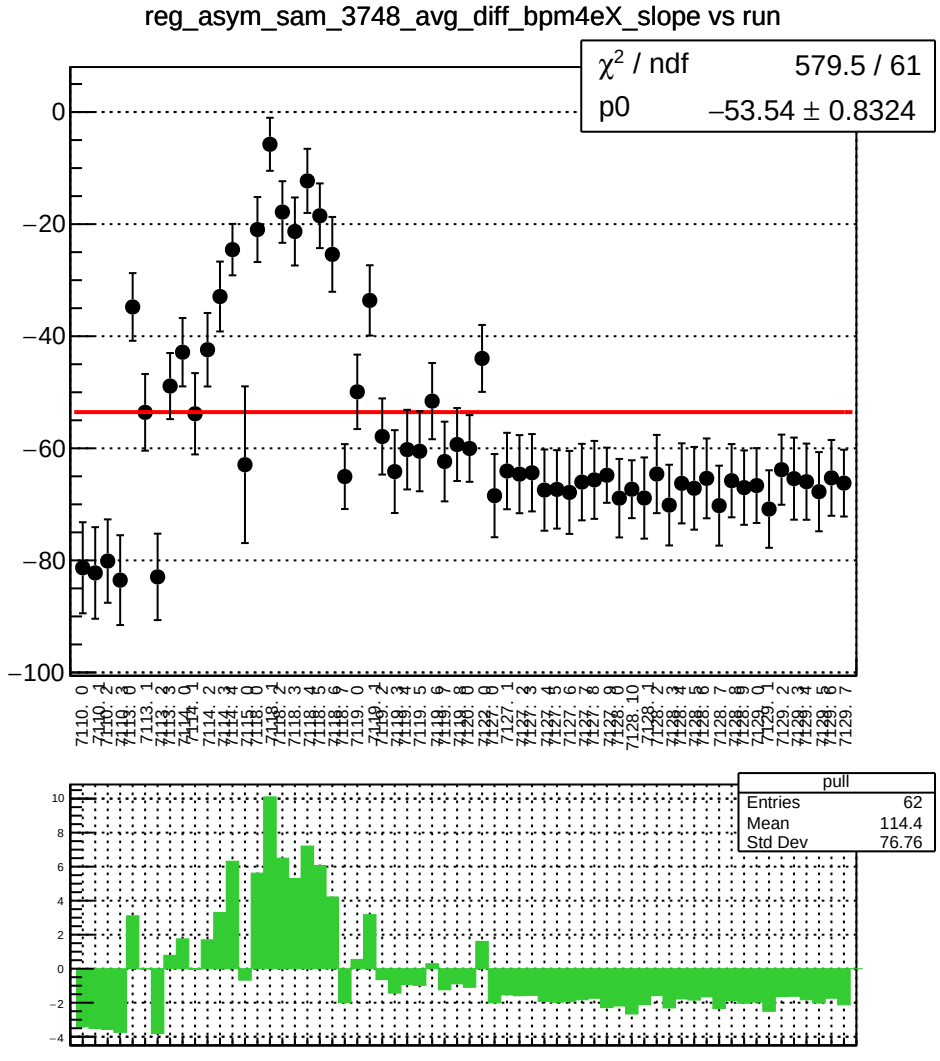

pull1D
Entries 62
Mean −0.01872
Std Dev 1.757

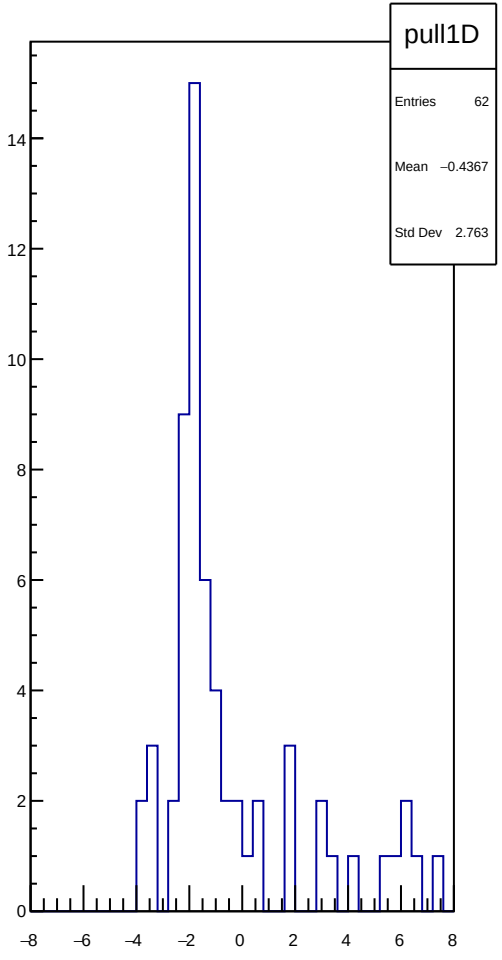

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 140.2 / 61
p0 −0.2067 ± 0.03091
pull
Entries 62
Mean −176.3
Std Dev 207.8
pull1D
Entries 62
Mean −0.09389
Std Dev 1.501

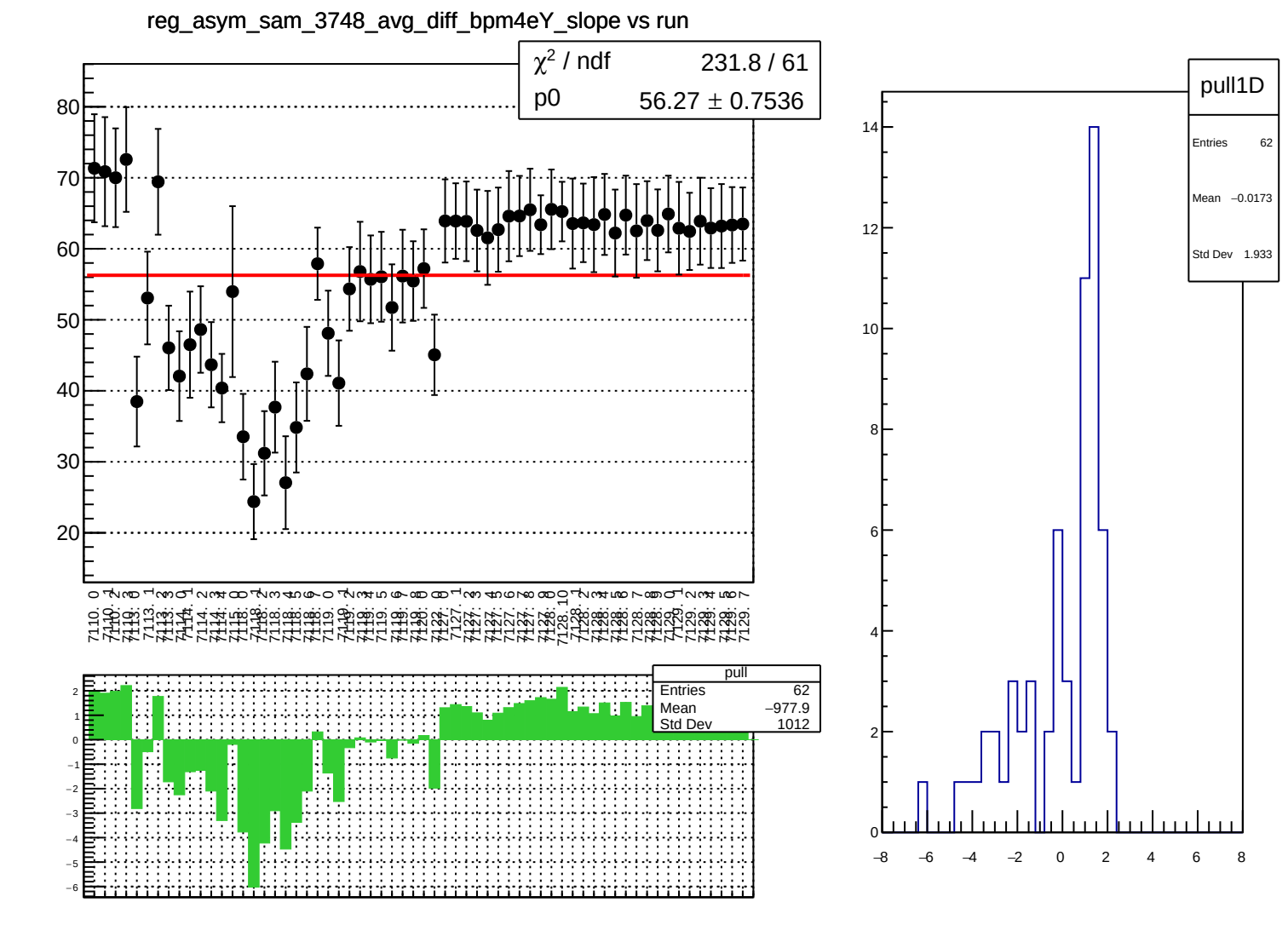

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 955.2 / 61
p0 −24.39 ± 0.8377
pull
Entries 62
Mean 168.8
Std Dev 136
pull1D
Entries 62
Mean 0.8281
Std Dev 3.206

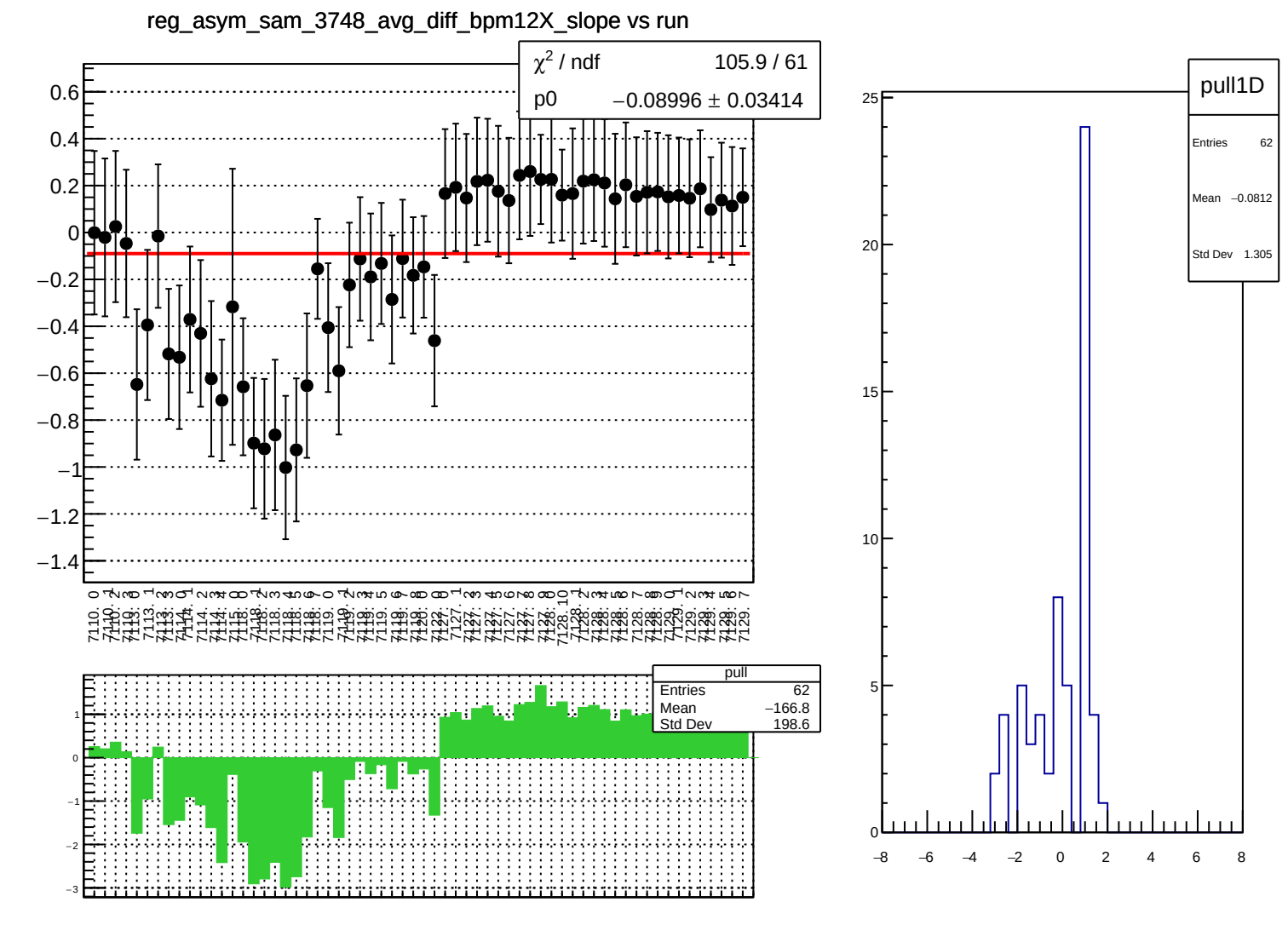

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 295.4 / 61
p0 0.5826 ± 0.713
pull
Entries 62
Mean −679.8
Std Dev 711.7

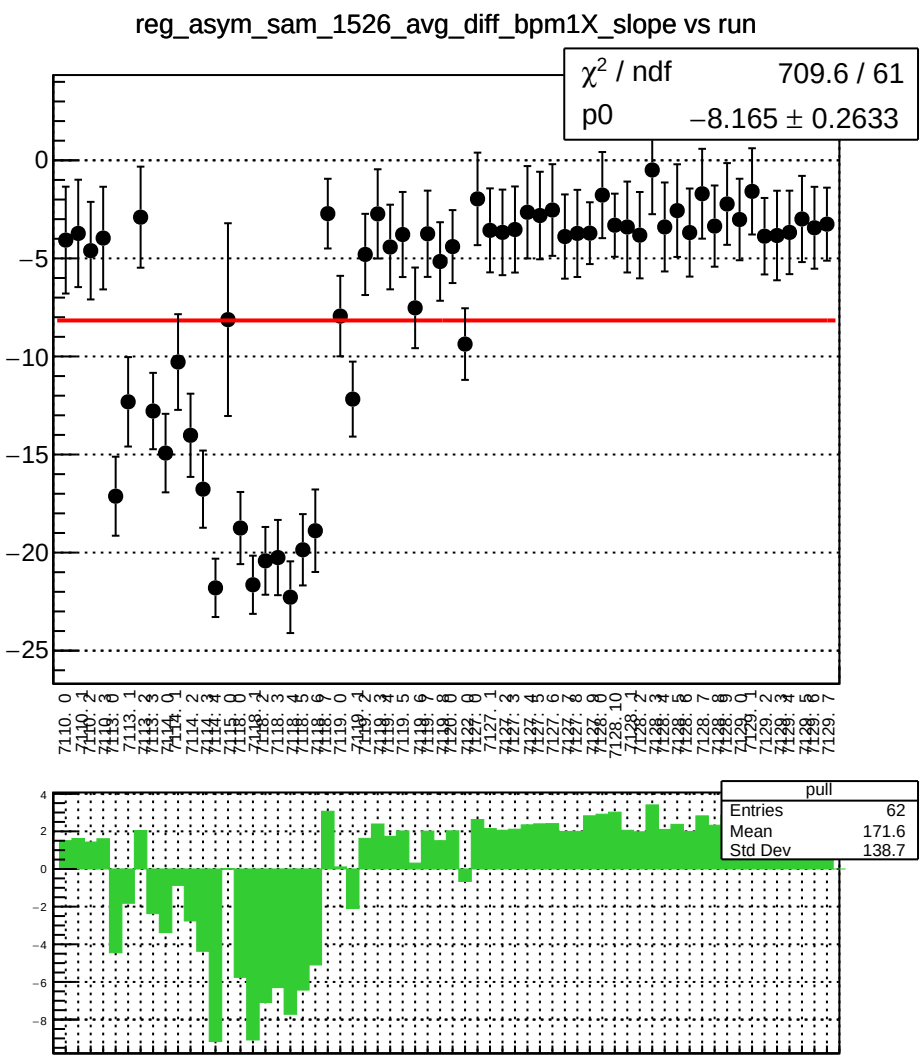

pull1D
Entries 62
Mean 0.03309
Std Dev 2.183

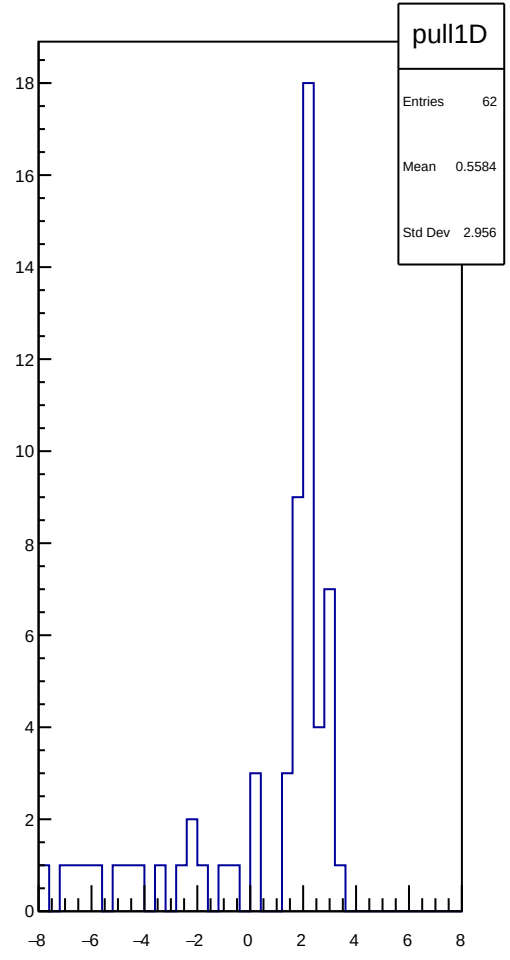

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 579.5 / 61
p0 −53.54 ± 0.8324
pull
Entries 62
Mean 114.4
Std Dev 76.76

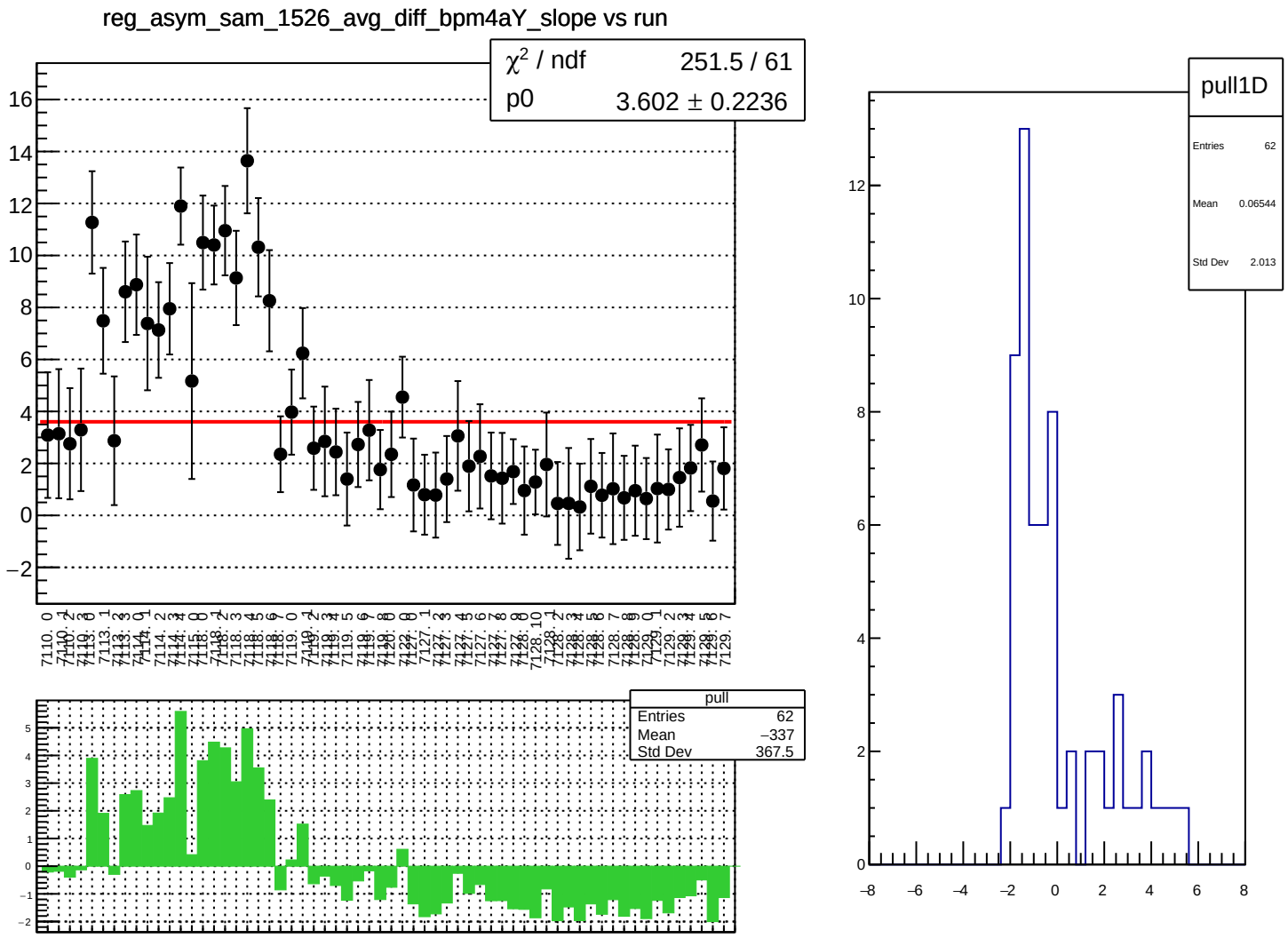

pull1D
Entries 62
Mean −0.4367
Std Dev 2.763

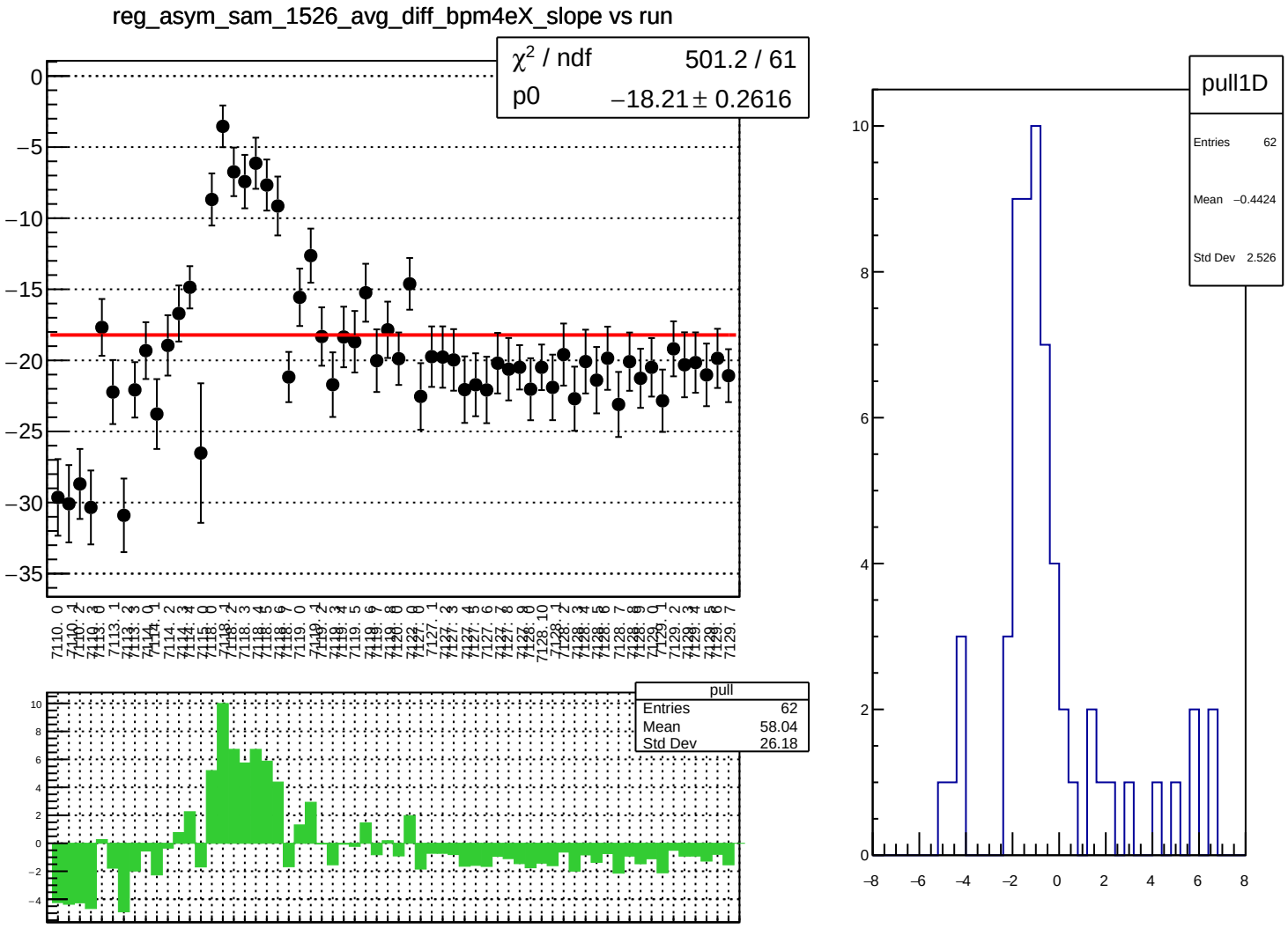

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 231.8 / 61
p0 56.27 ± 0.7536
pull
Entries 62
Mean −977.9
Std Dev 1012
pull1D
Entries 62
Mean −0.0173
Std Dev 1.933

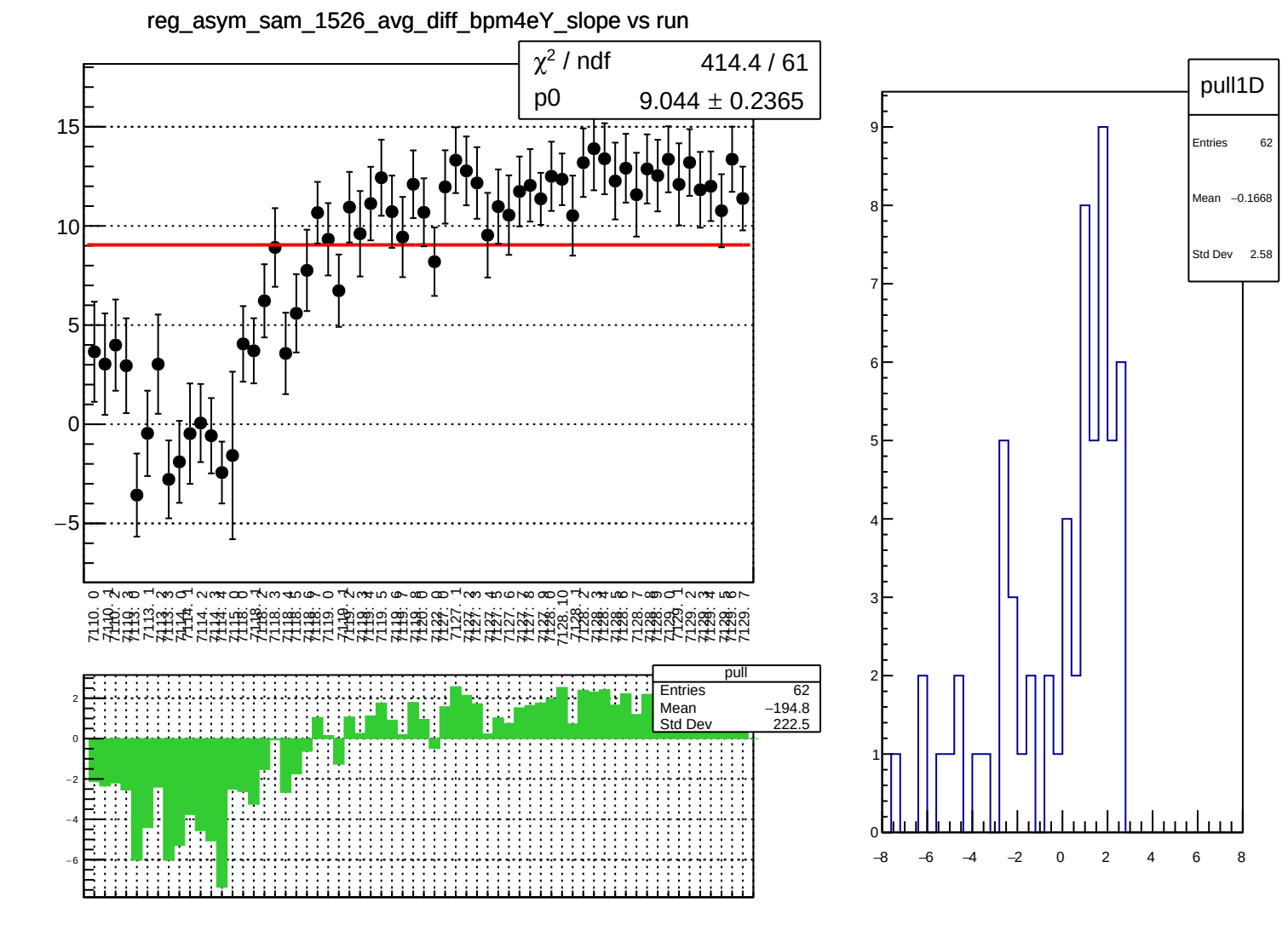

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 105.9 / 61
p0 −0.08996 ± 0.03414
pull
Entries 62
Mean −166.8
Std Dev 198.6
pull1D
Entries 62
Mean −0.0812
Std Dev 1.305

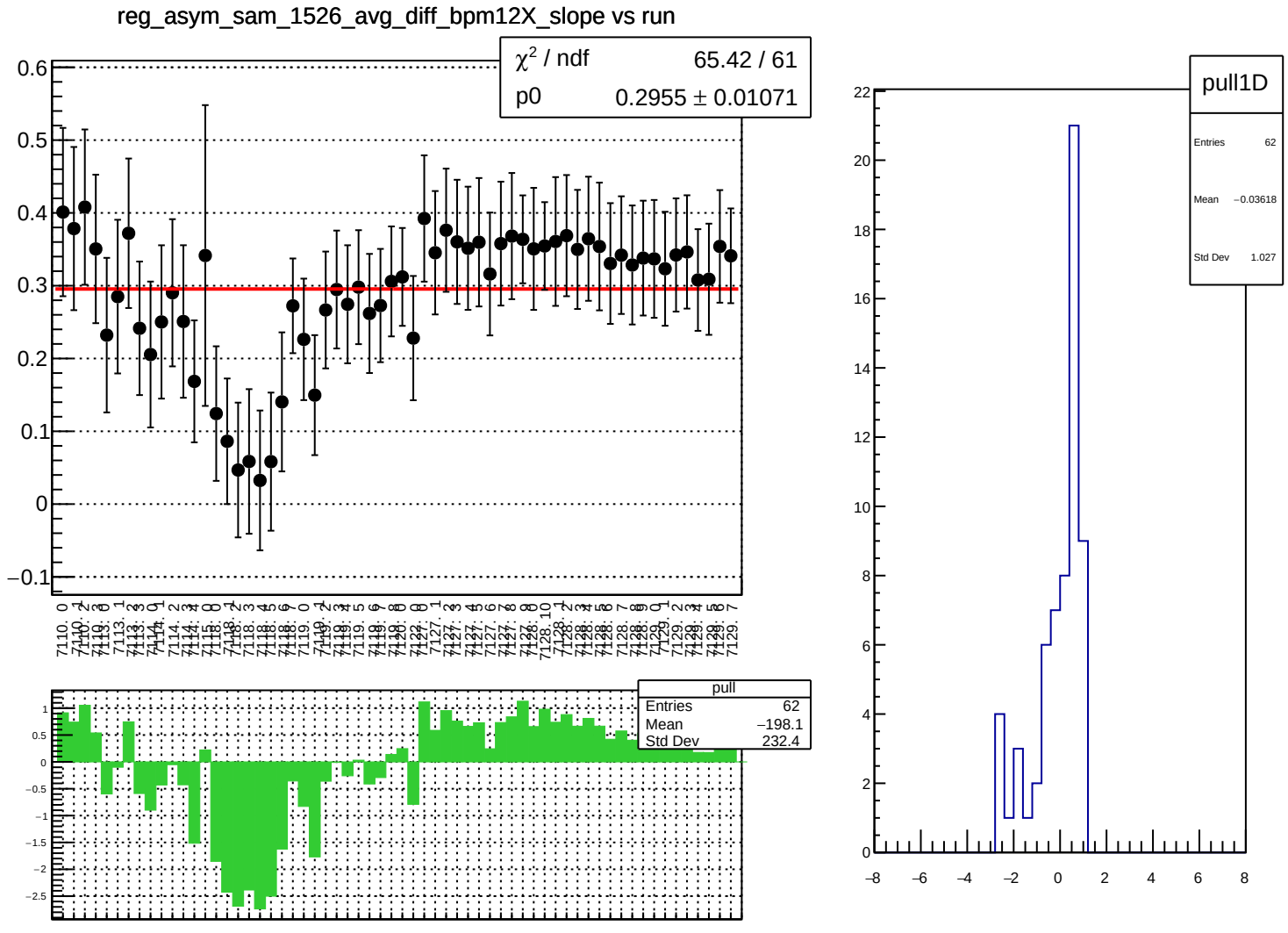

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 709.6 / 61
p0 −8.165 ± 0.2633
pull
Entries 62
Mean 171.6
Std Dev 138.7

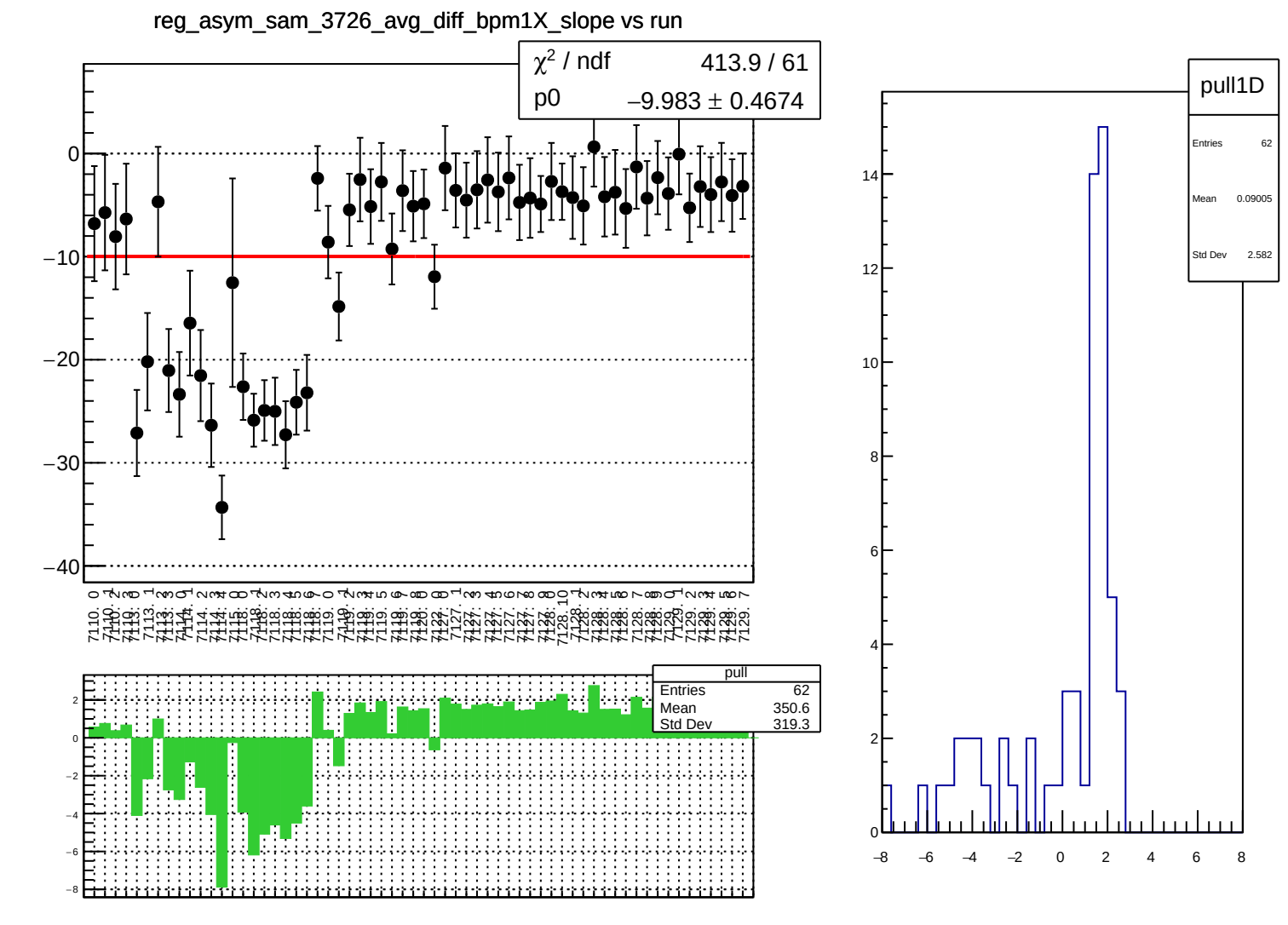

pull1D
Entries 62
Mean 0.5584
Std Dev 2.956

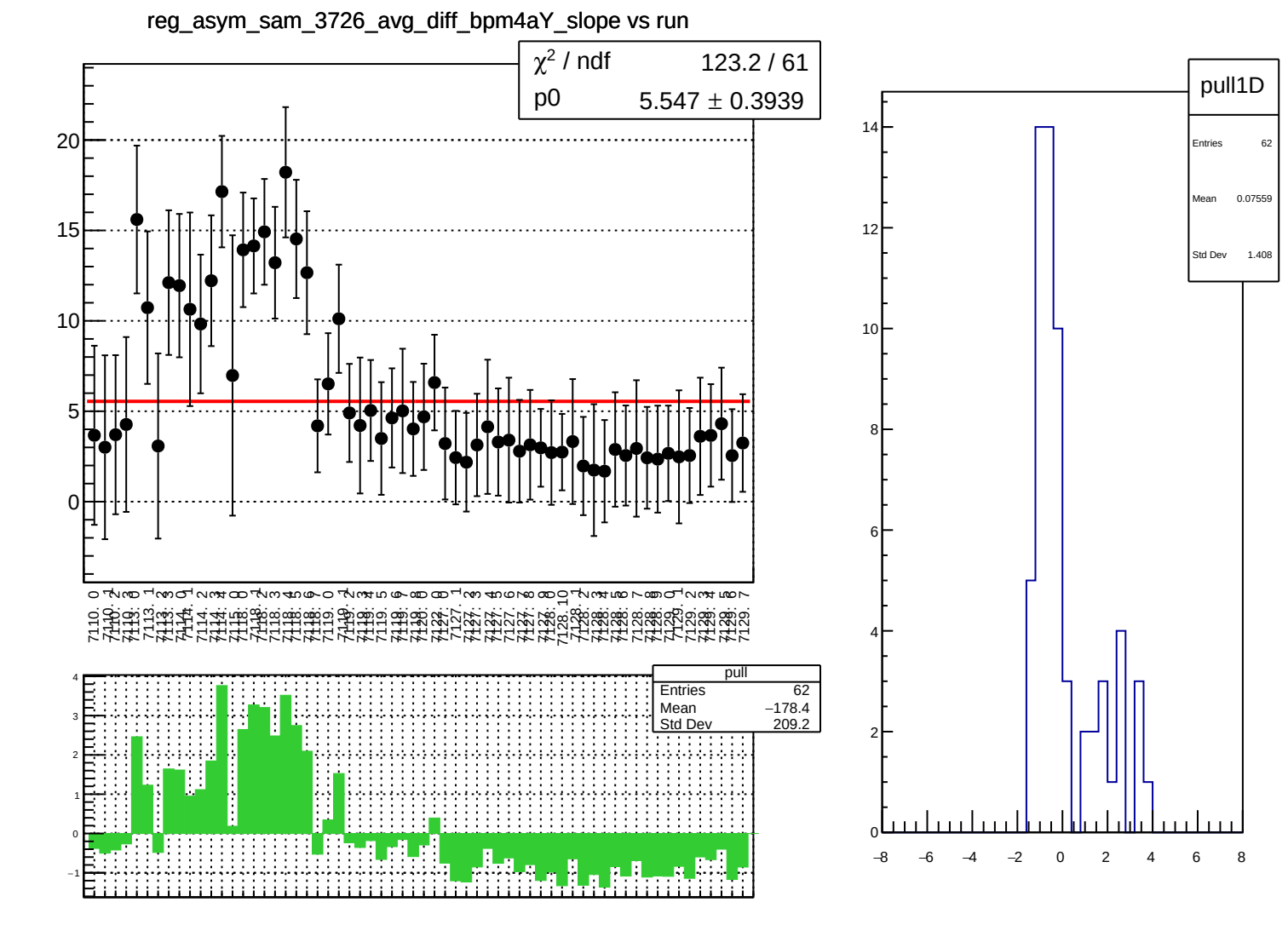

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 251.5 / 61
p0 3.602 ± 0.2236
pull
Entries 62
Mean −337
Std Dev 367.5
pull1D
Entries 62
Mean 0.06544
Std Dev 2.013

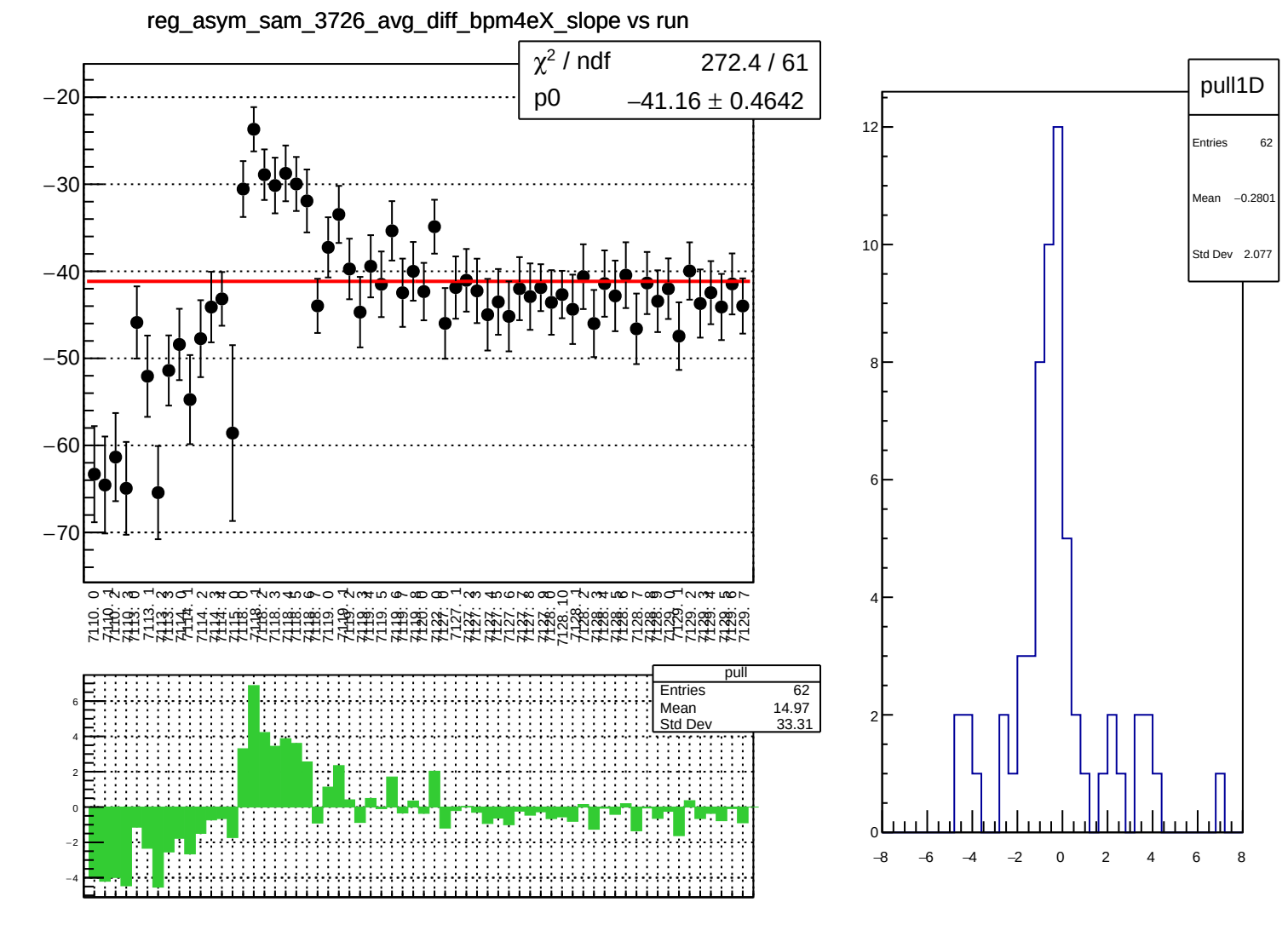

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 501.2 / 61
p0 −18.21 ± 0.2616
pull
Entries 62
Mean 58.04
Std Dev 26.18
pull1D
Entries 62
Mean −0.4424
Std Dev 2.526

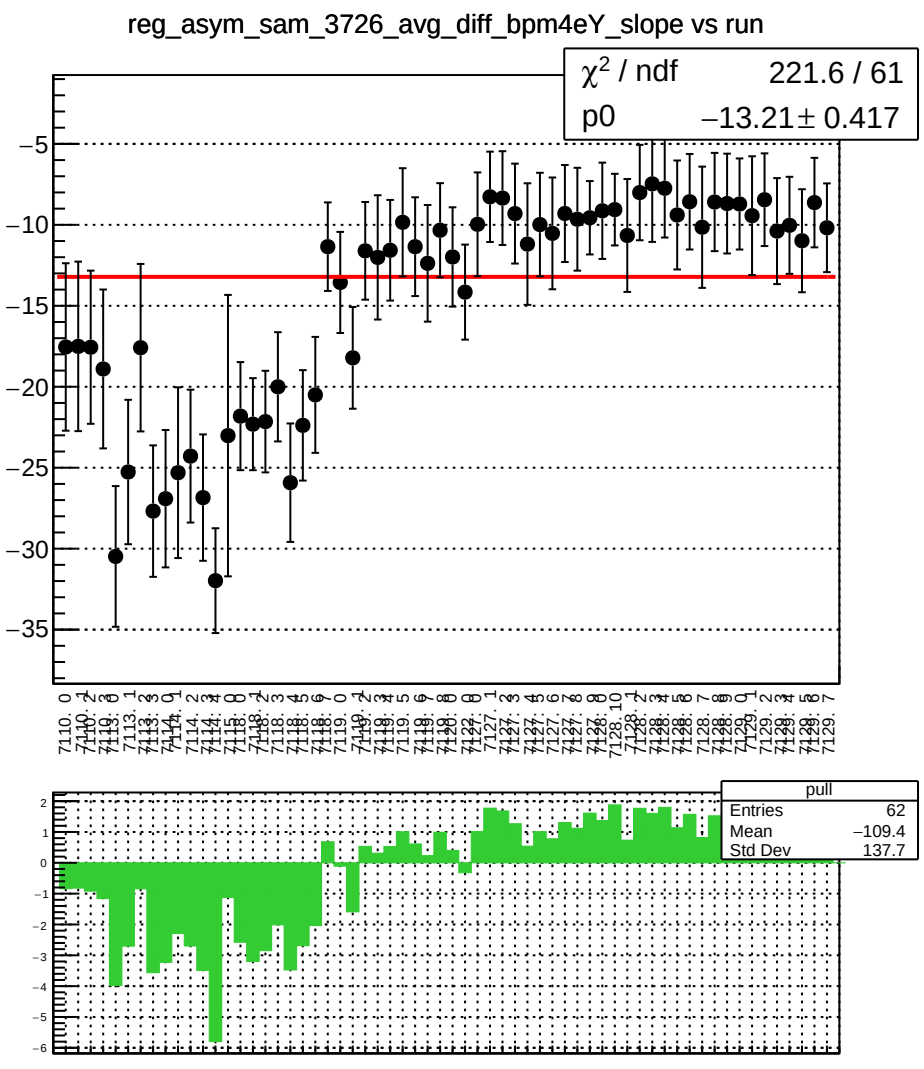

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 414.4 / 61
p0 9.044 ± 0.2365
pull
Entries 62
Mean −194.8
Std Dev 222.5
pull1D
Entries 62
Mean −0.1668
Std Dev 2.58

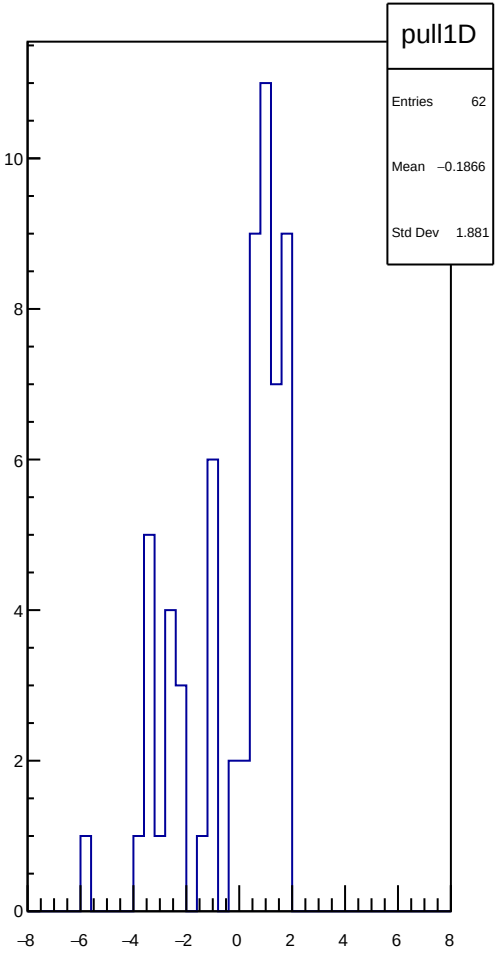

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 65.42 / 61
p0 0.2955 ± 0.01071
pull
Entries 62
Mean −198.1
Std Dev 232.4
pull1D
Entries 62
Mean −0.03618
Std Dev 1.027

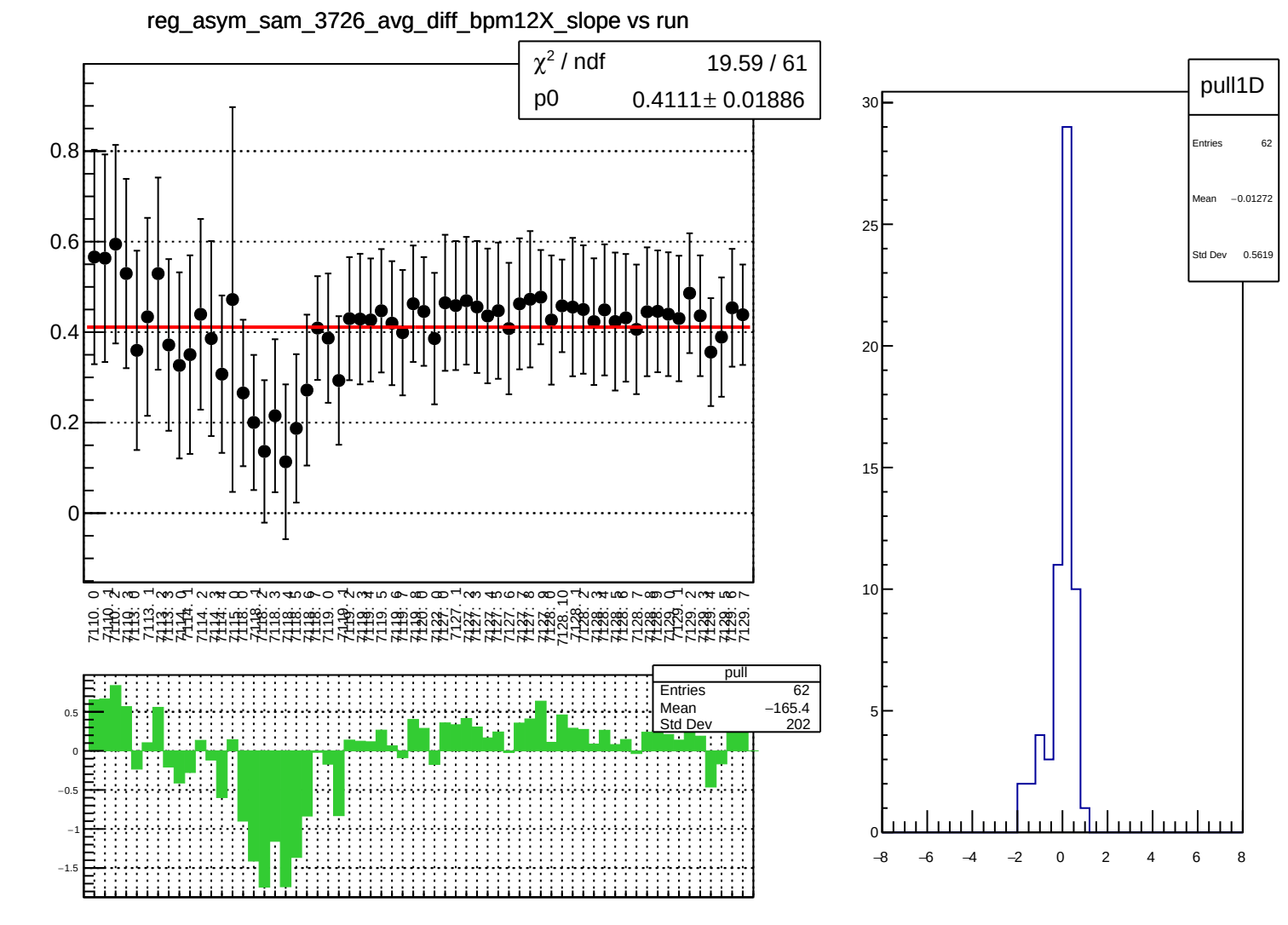

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 413.9 / 61
p0 −9.983 ± 0.4674
pull
Entries 62
Mean 350.6
Std Dev 319.3
pull1D
Entries 62
Mean 0.09005
Std Dev 2.582

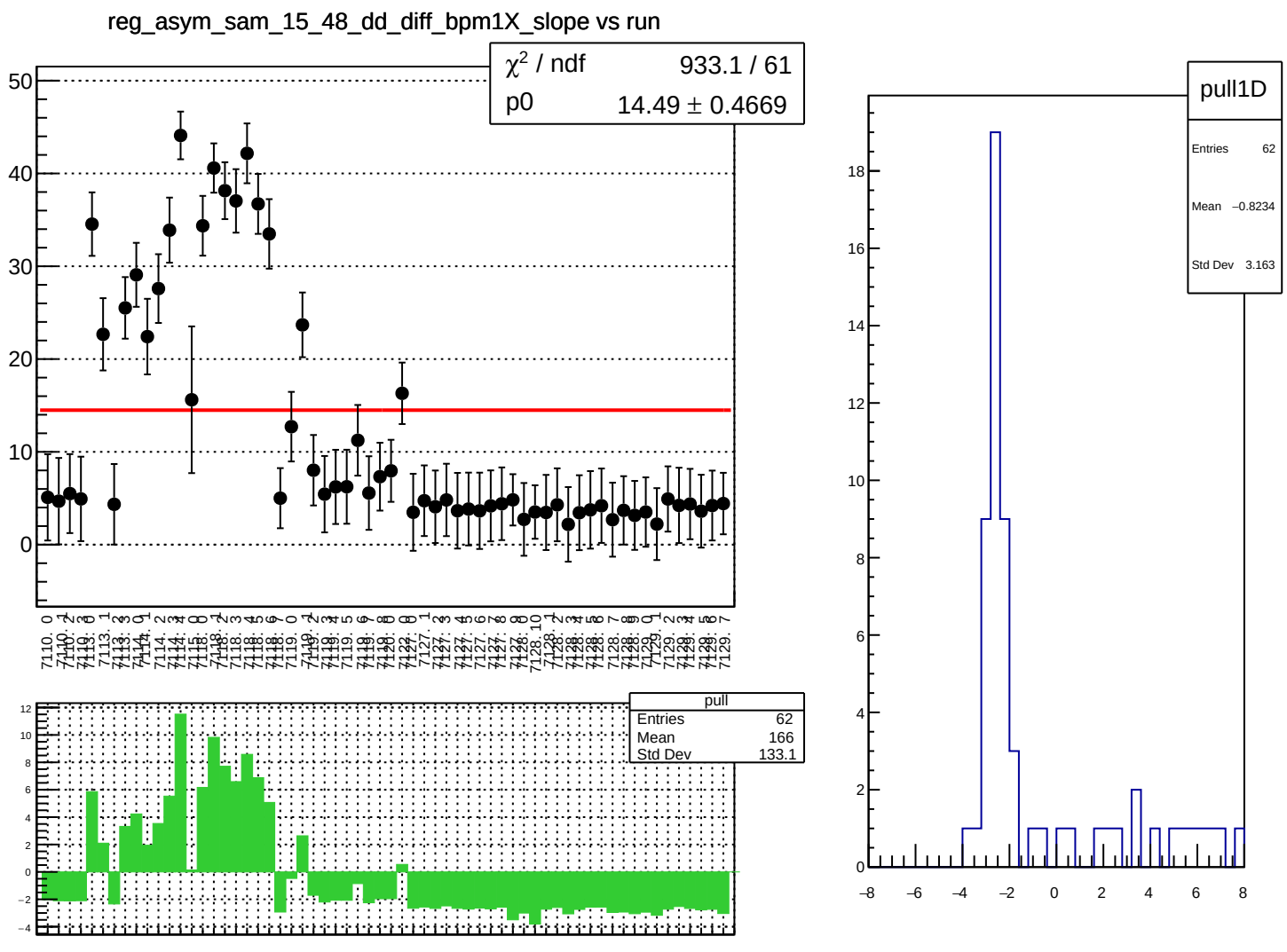

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 123.2 / 61
p0 5.547 ± 0.3939
pull
Entries 62
Mean −178.4
Std Dev 209.2
pull1D
Entries 62
Mean 0.07559
Std Dev 1.408

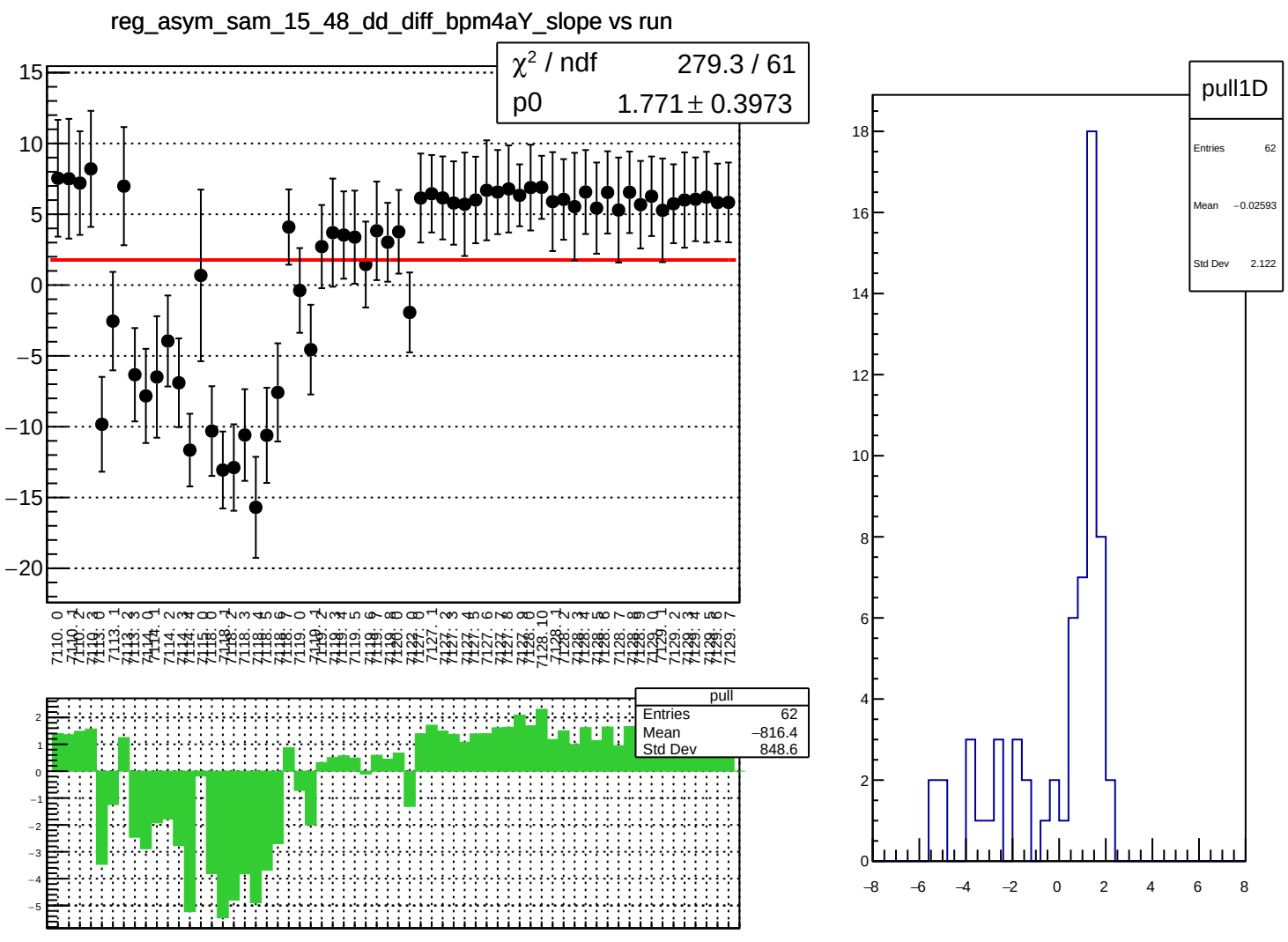

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 272.4 / 61
p0 −41.16 ± 0.4642
pull
Entries 62
Mean 14.97
Std Dev 33.31
pull1D
Entries 62
Mean −0.2801
Std Dev 2.077

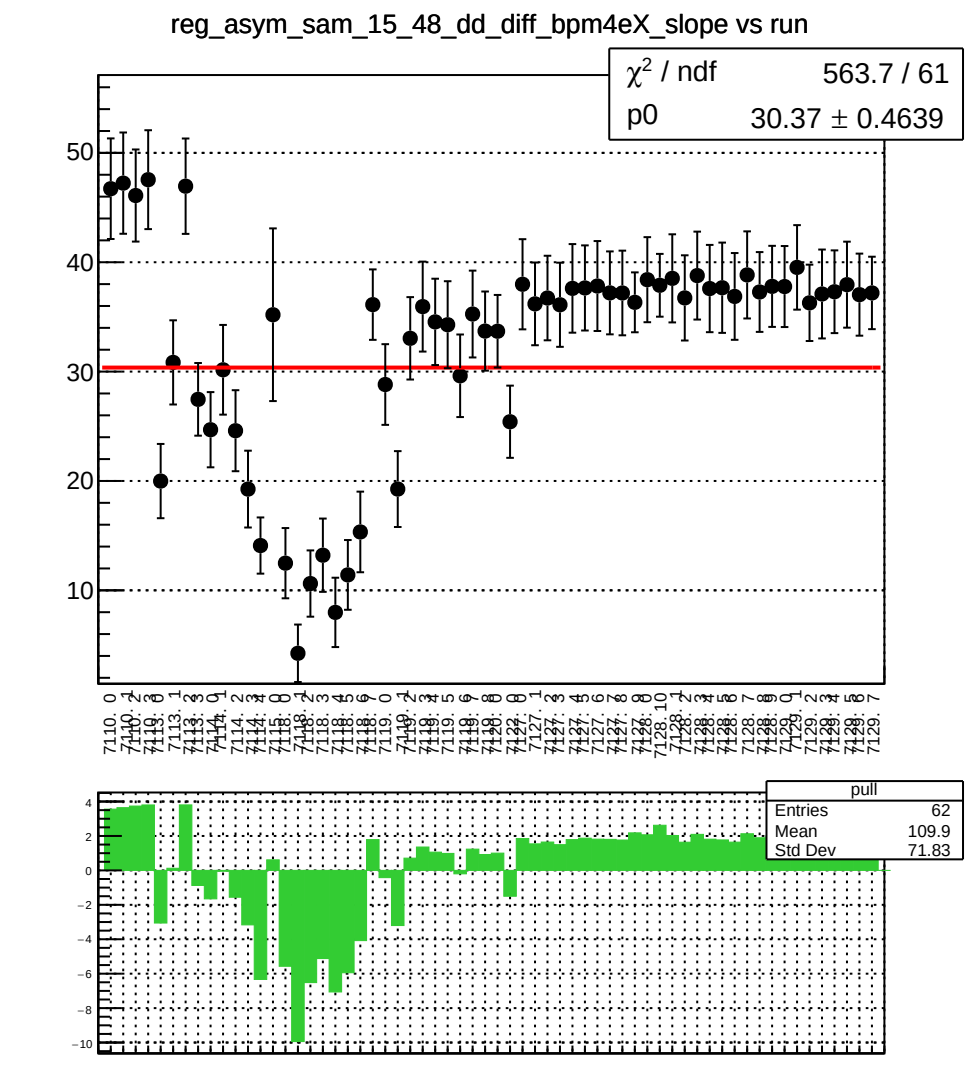

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 221.6 / 61
p0 −13.21 ± 0.417
pull
Entries 62
Mean −109.4
Std Dev 137.7

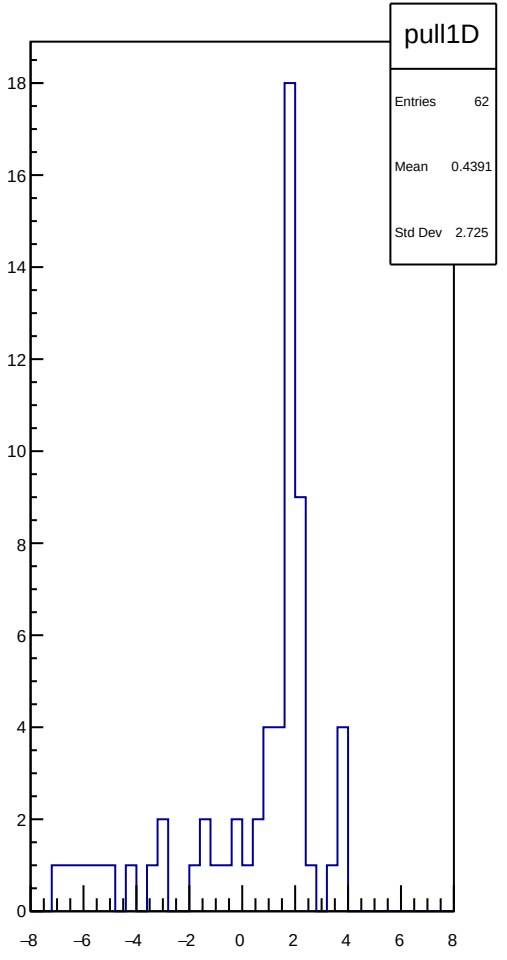

pull1D
Entries 62
Mean −0.1866
Std Dev 1.881

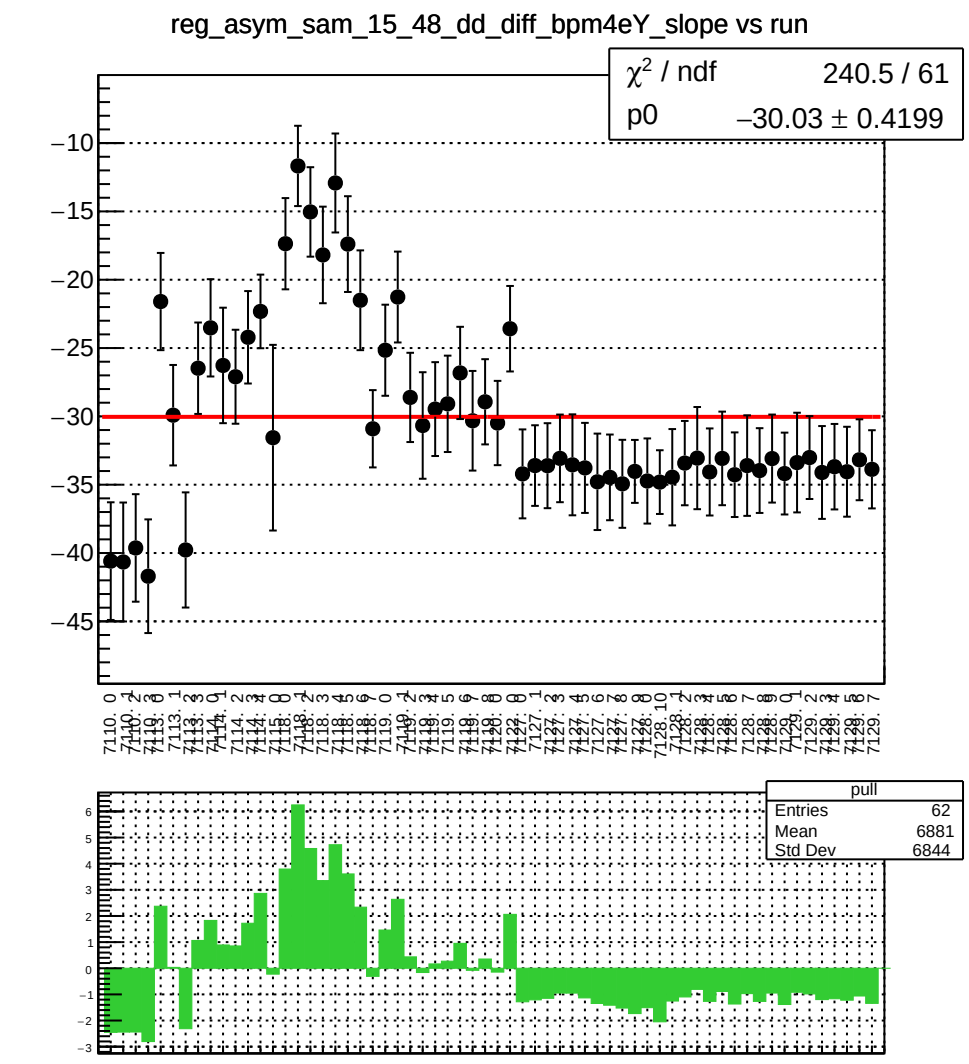

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 19.59 / 61
p0 0.4111± 0.01886
pull
Entries 62
Mean −165.4
Std Dev 202
pull1D
Entries 62
Mean −0.01272
Std Dev 0.5619

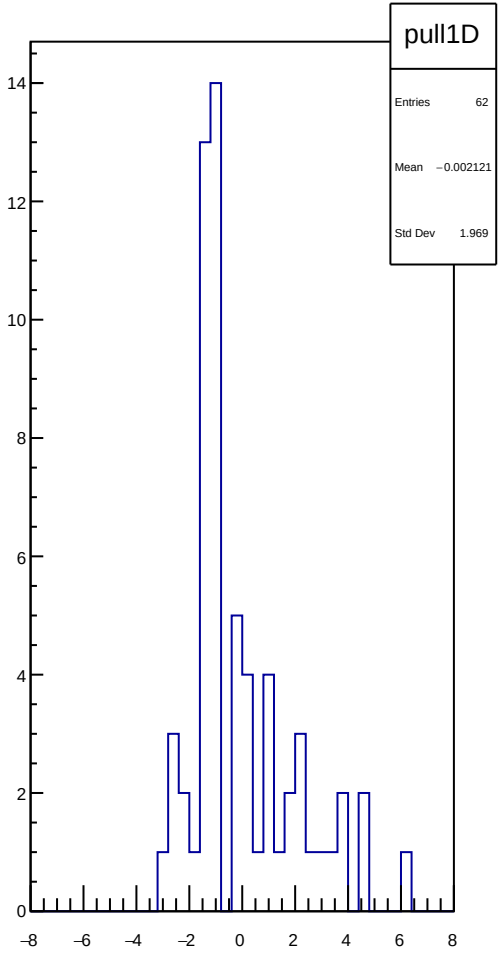

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 933.1 / 61
p0 14.49 ± 0.4669
pull
Entries 62
Mean 166
Std Dev 133.1
pull1D
Entries 62
Mean −0.8234
Std Dev 3.163

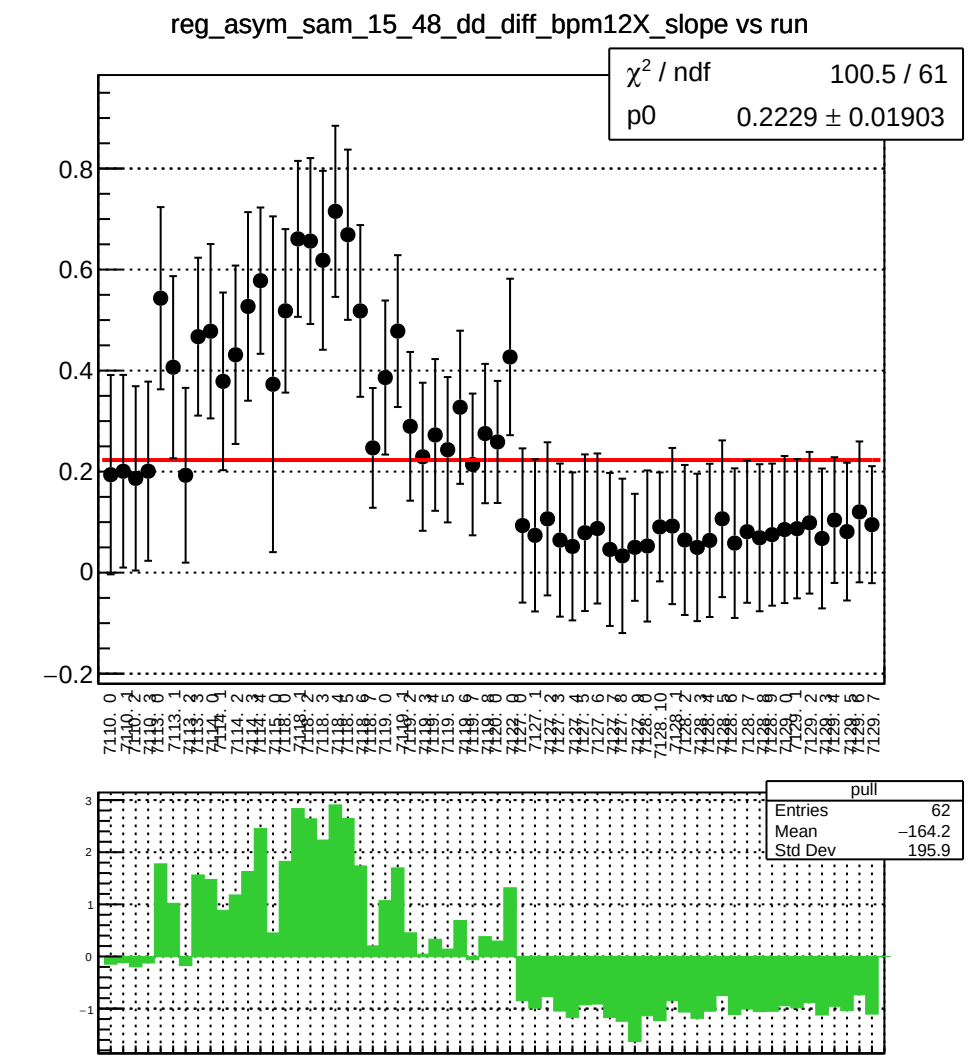

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 279.3 / 61
p0 1.771 ± 0.3973
pull
Entries 62
Mean −816.4
Std Dev 848.6
pull1D
Entries 62
Mean −0.02593
Std Dev 2.122

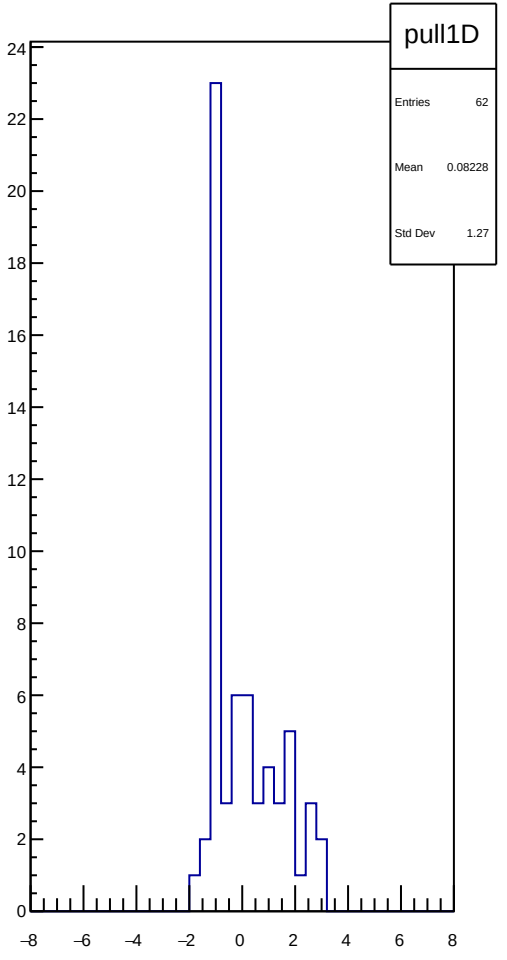

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 563.7 / 61
p0 30.37 ± 0.4639
pull
Entries 62
Mean 109.9
Std Dev 71.83

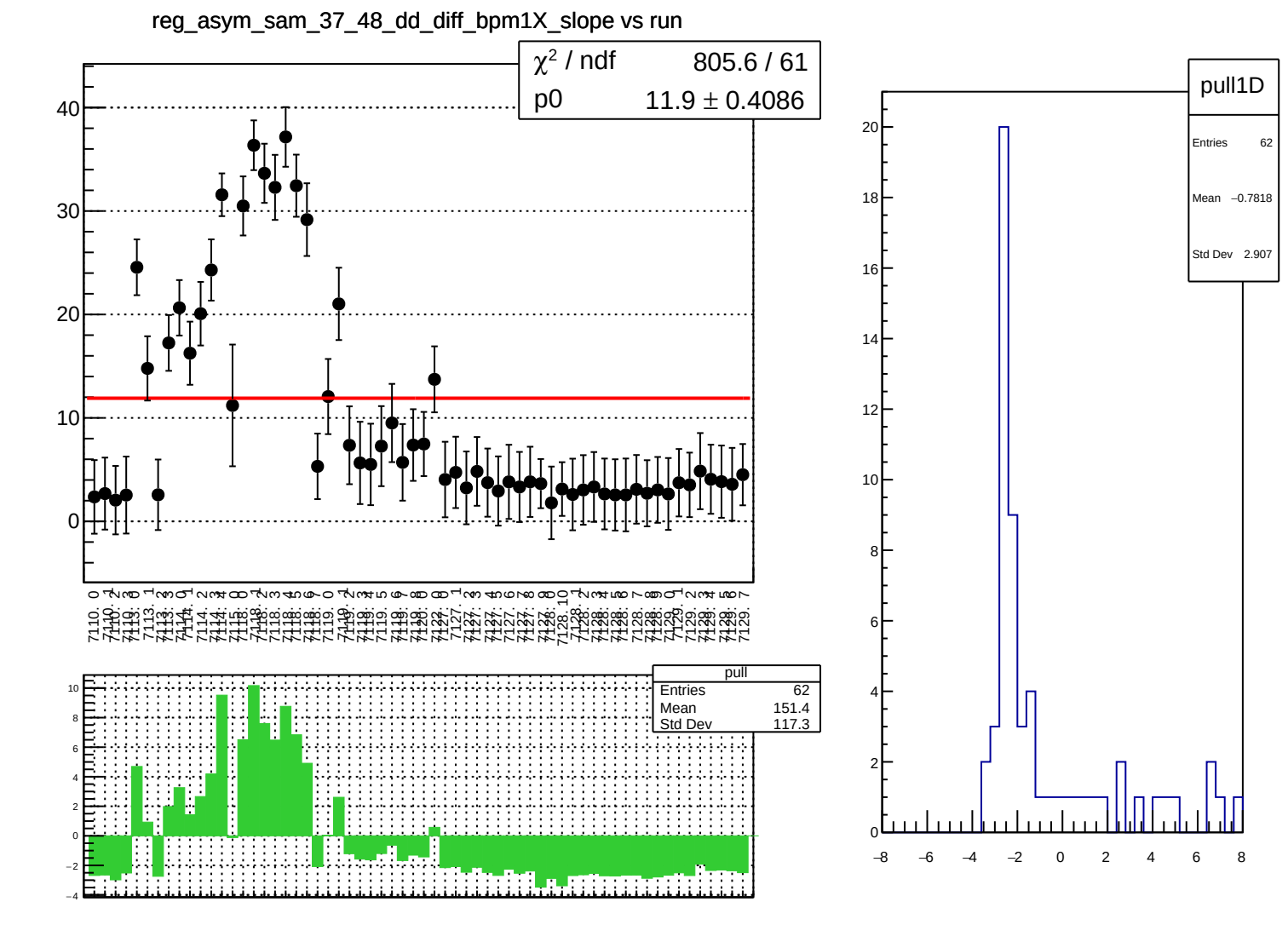

pull1D
Entries 62
Mean 0.4391
Std Dev 2.725

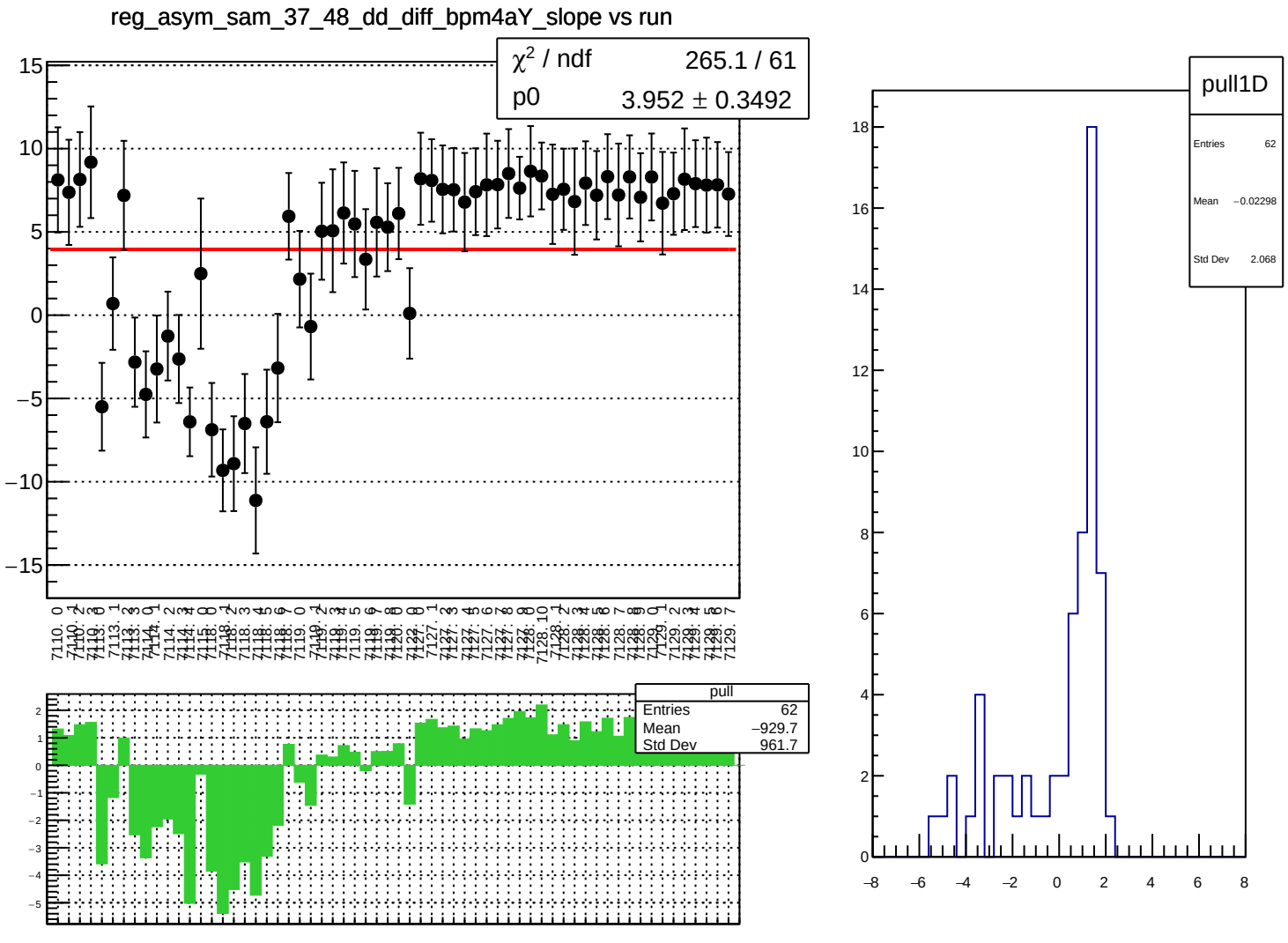

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 240.5 / 61
p0 −30.03 ± 0.4199
pull
Entries 62
Mean 6881
Std Dev 6844

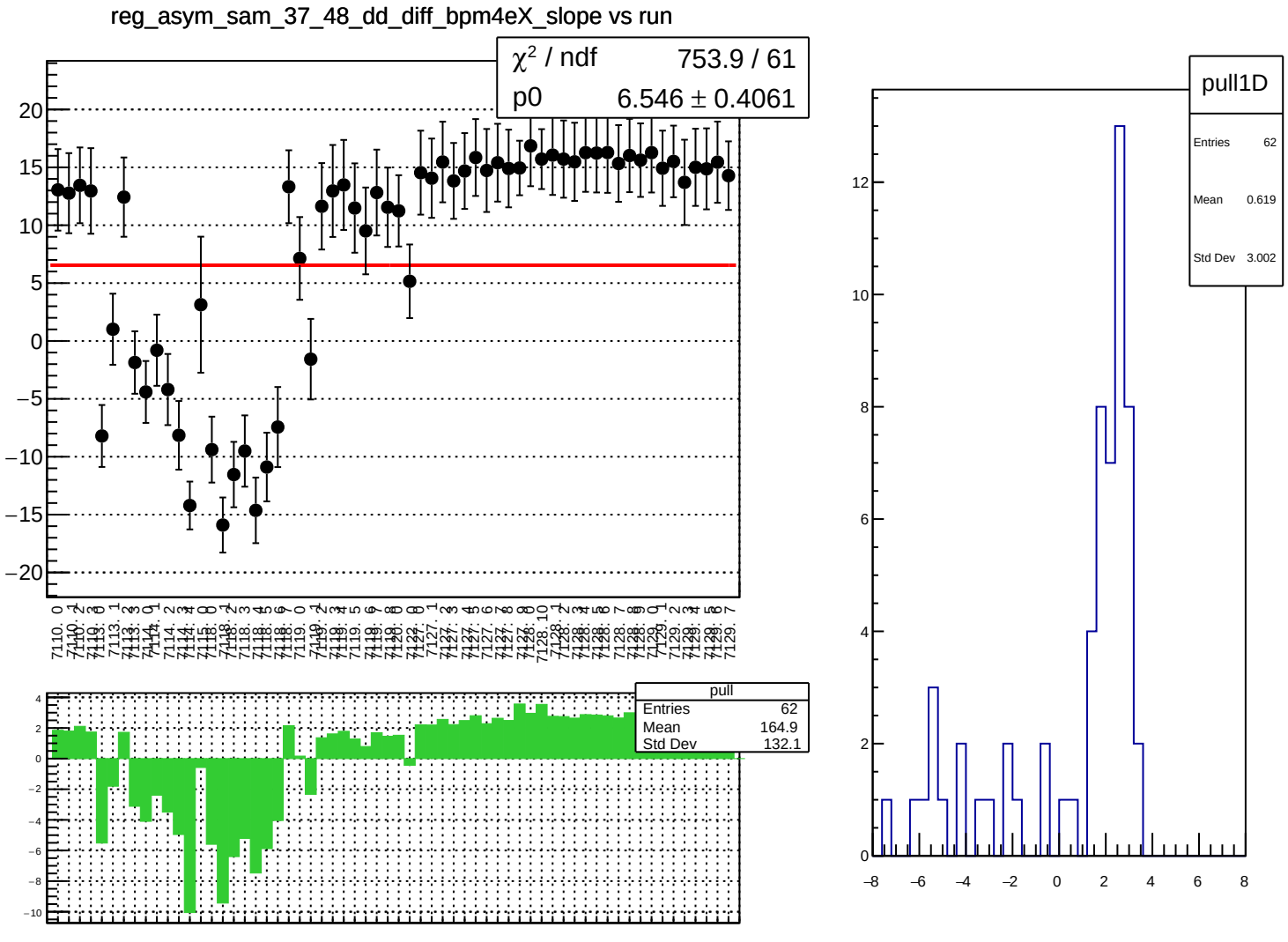

pull1D
Entries 62
Mean −0.002121
Std Dev 1.969

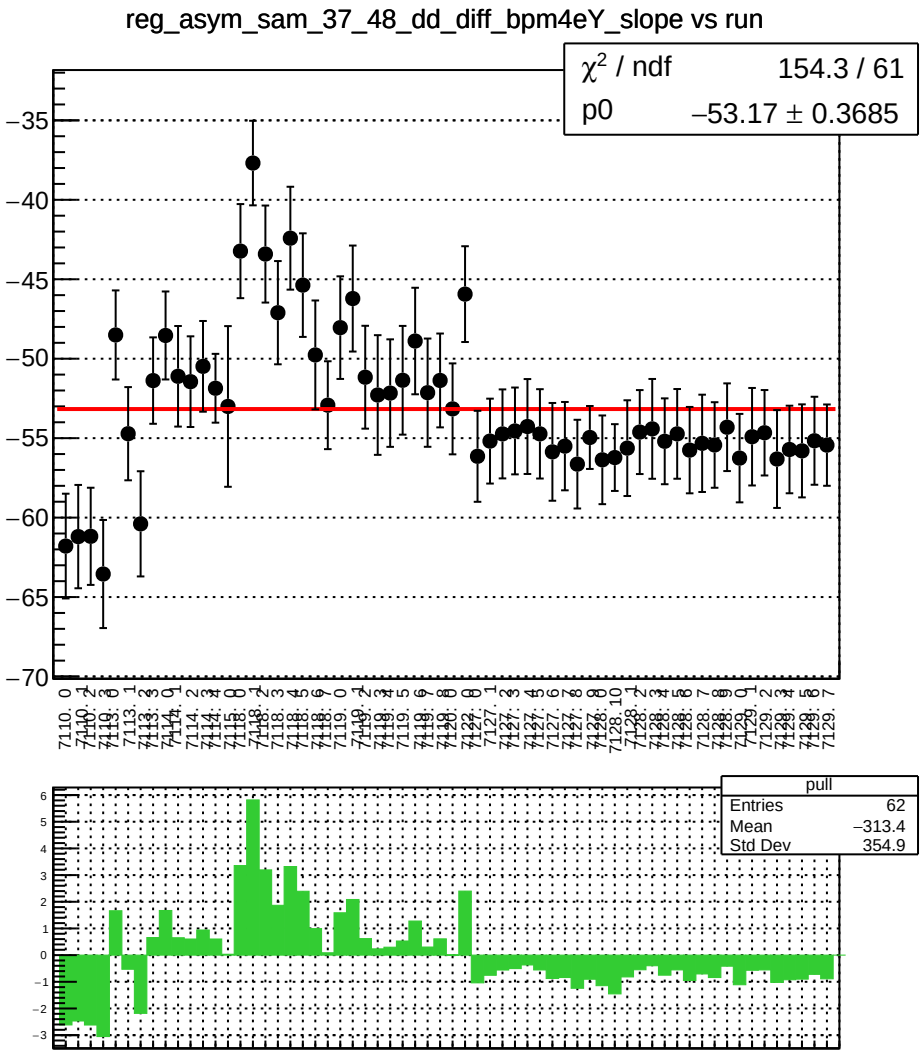

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 100.5 / 61
p0 0.2229 ± 0.01903
pull
Entries 62
Mean −164.2
Std Dev 195.9

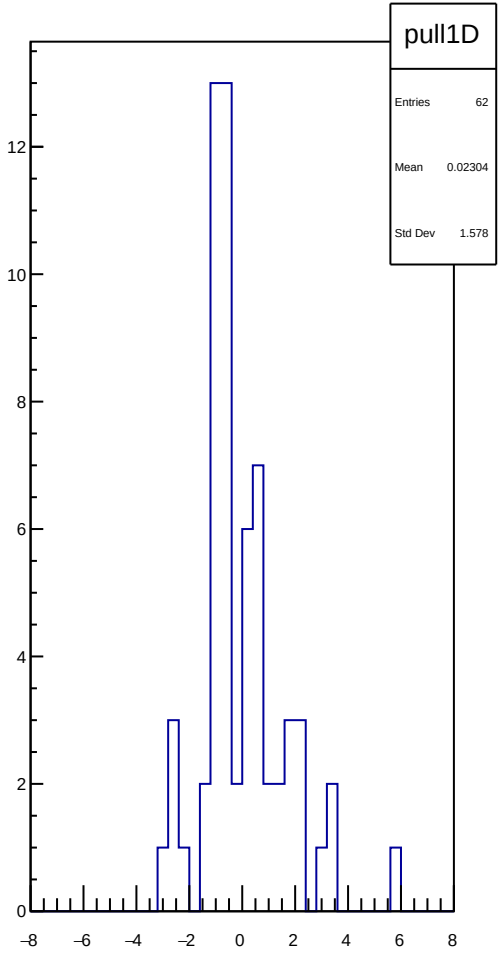

pull1D
Entries 62
Mean 0.08228
Std Dev 1.27

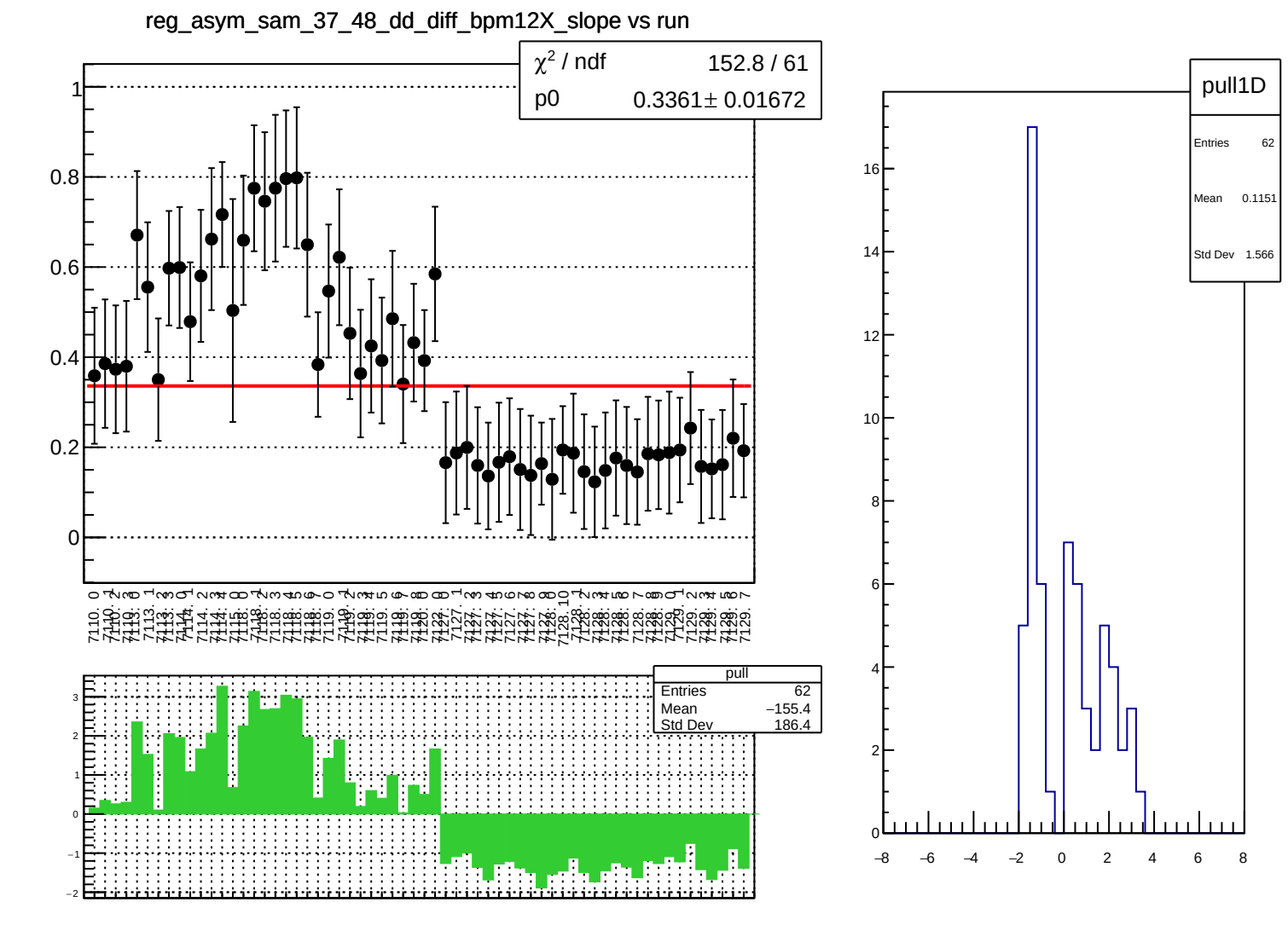

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 805.6 / 61
p0 11.9 ± 0.4086
pull
Entries 62
Mean 151.4
Std Dev 117.3
pull1D
Entries 62
Mean −0.7818
Std Dev 2.907

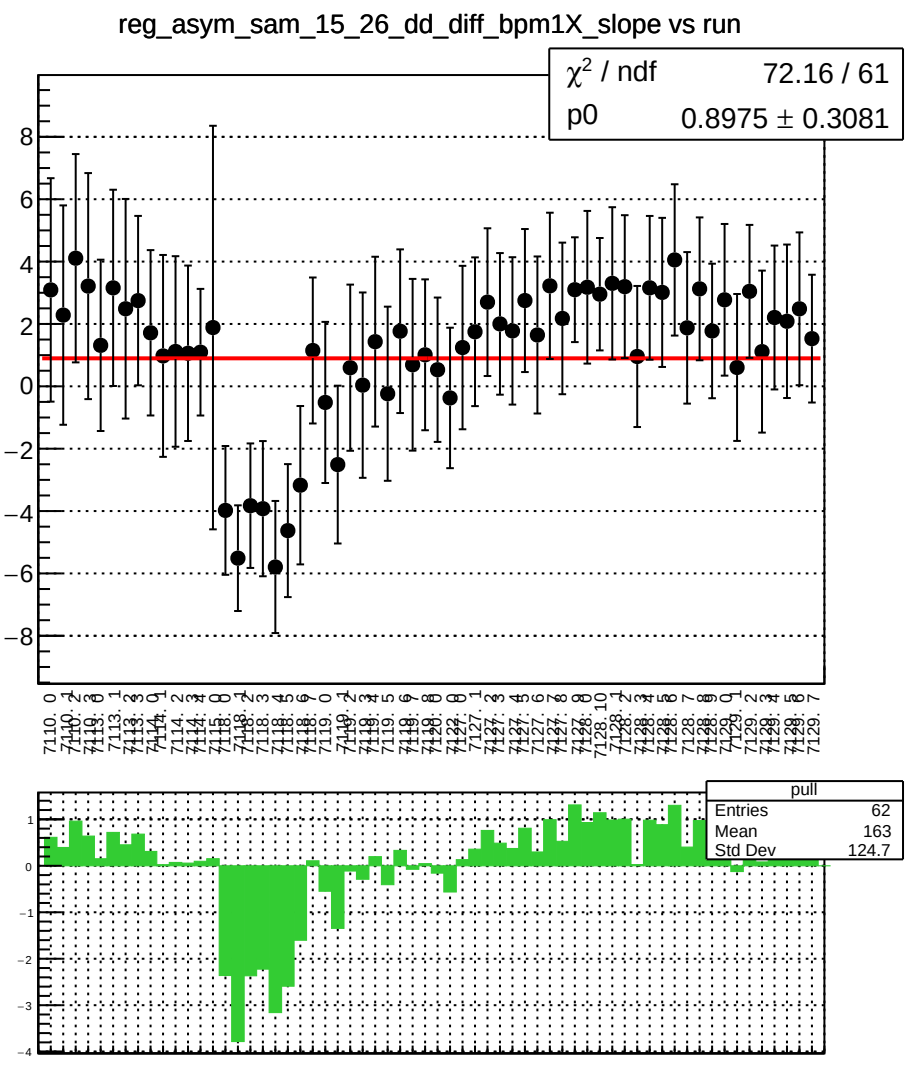

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 265.1 / 61
p0 3.952 ± 0.3492
pull
Entries 62
Mean −929.7
Std Dev 961.7
pull1D
Entries 62
Mean −0.02298
Std Dev 2.068

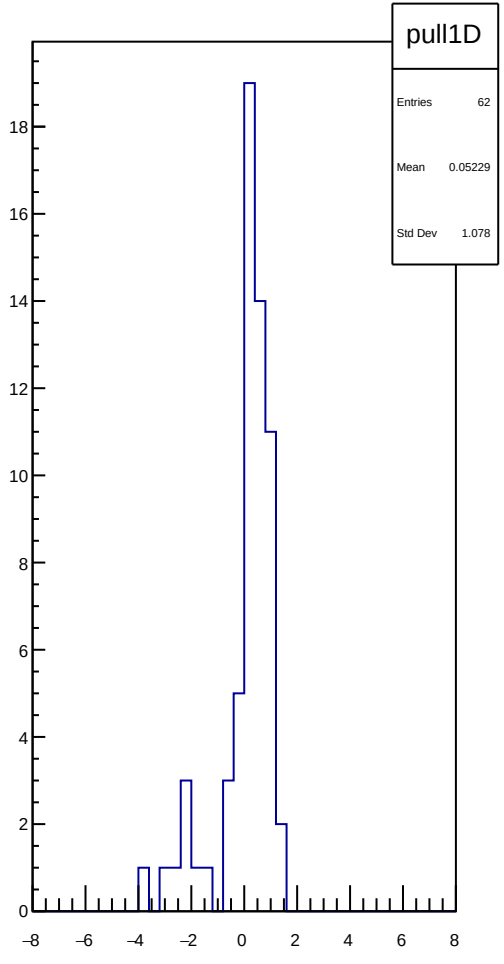

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 753.9 / 61
p0 6.546 ± 0.4061
pull
Entries 62
Mean 164.9
Std Dev 132.1
pull1D
Entries 62
Mean 0.619
Std Dev 3.002

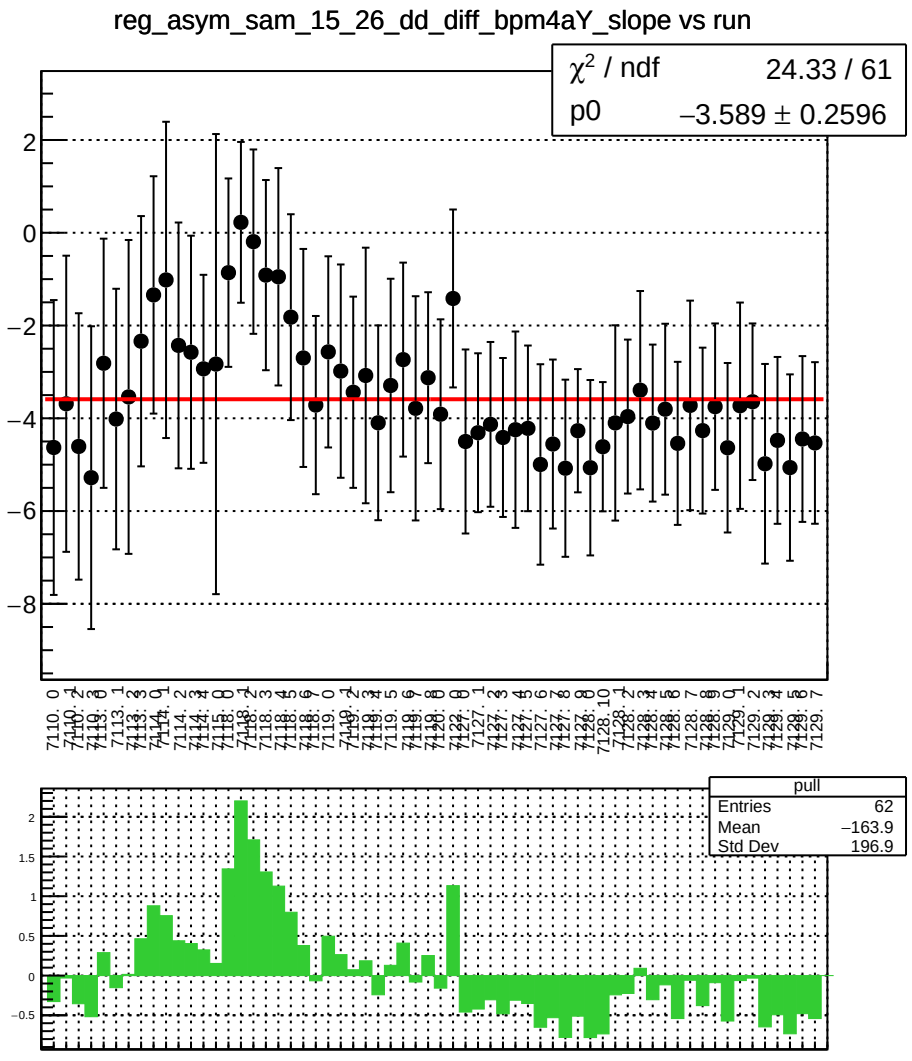

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 154.3 / 61
p0 −53.17 ± 0.3685
pull
Entries 62
Mean −313.4
Std Dev 354.9

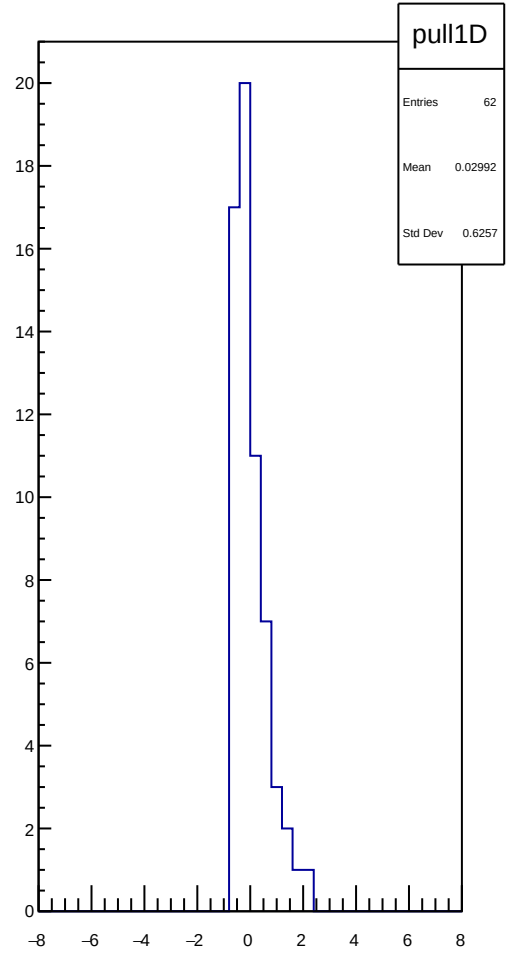

pull1D
Entries 62
Mean 0.02304
Std Dev 1.578

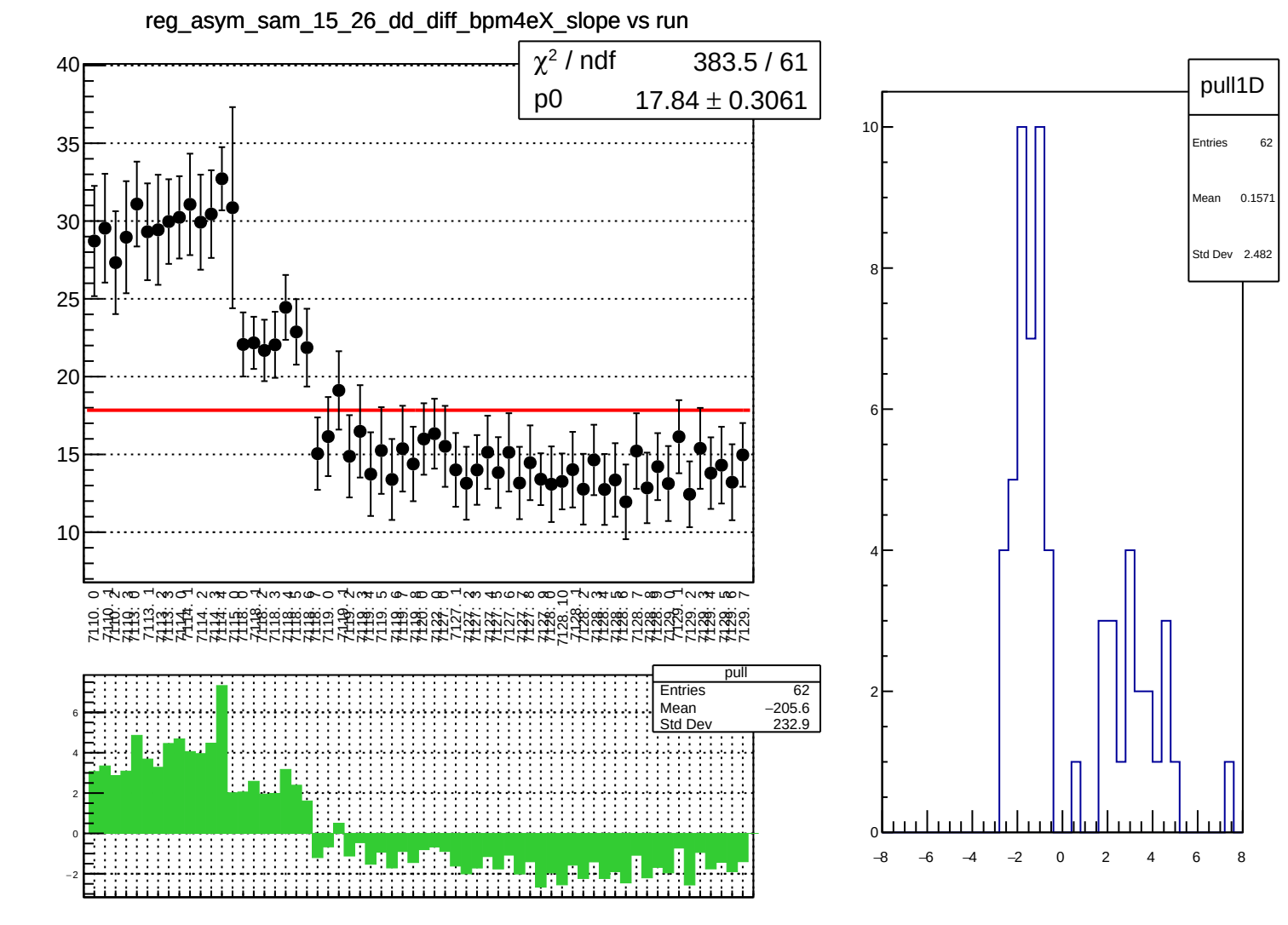

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 152.8 / 61
p0 0.3361± 0.01672
pull
Entries 62
Mean −155.4
Std Dev 186.4
pull1D
Entries 62
Mean 0.1151
Std Dev 1.566

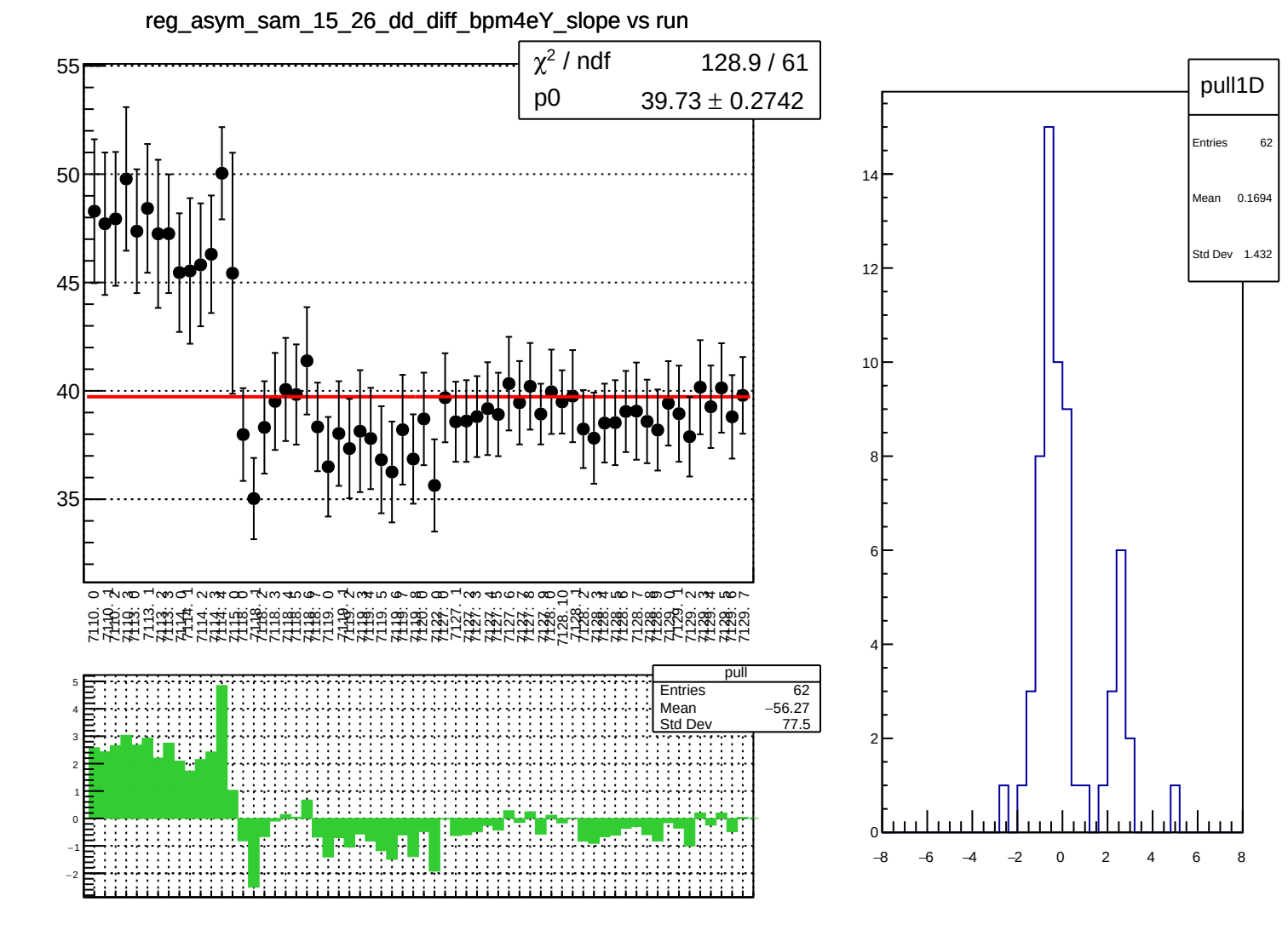

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 72.16 / 61
p0 0.8975 ± 0.3081
pull
Entries 62
Mean 163
Std Dev 124.7

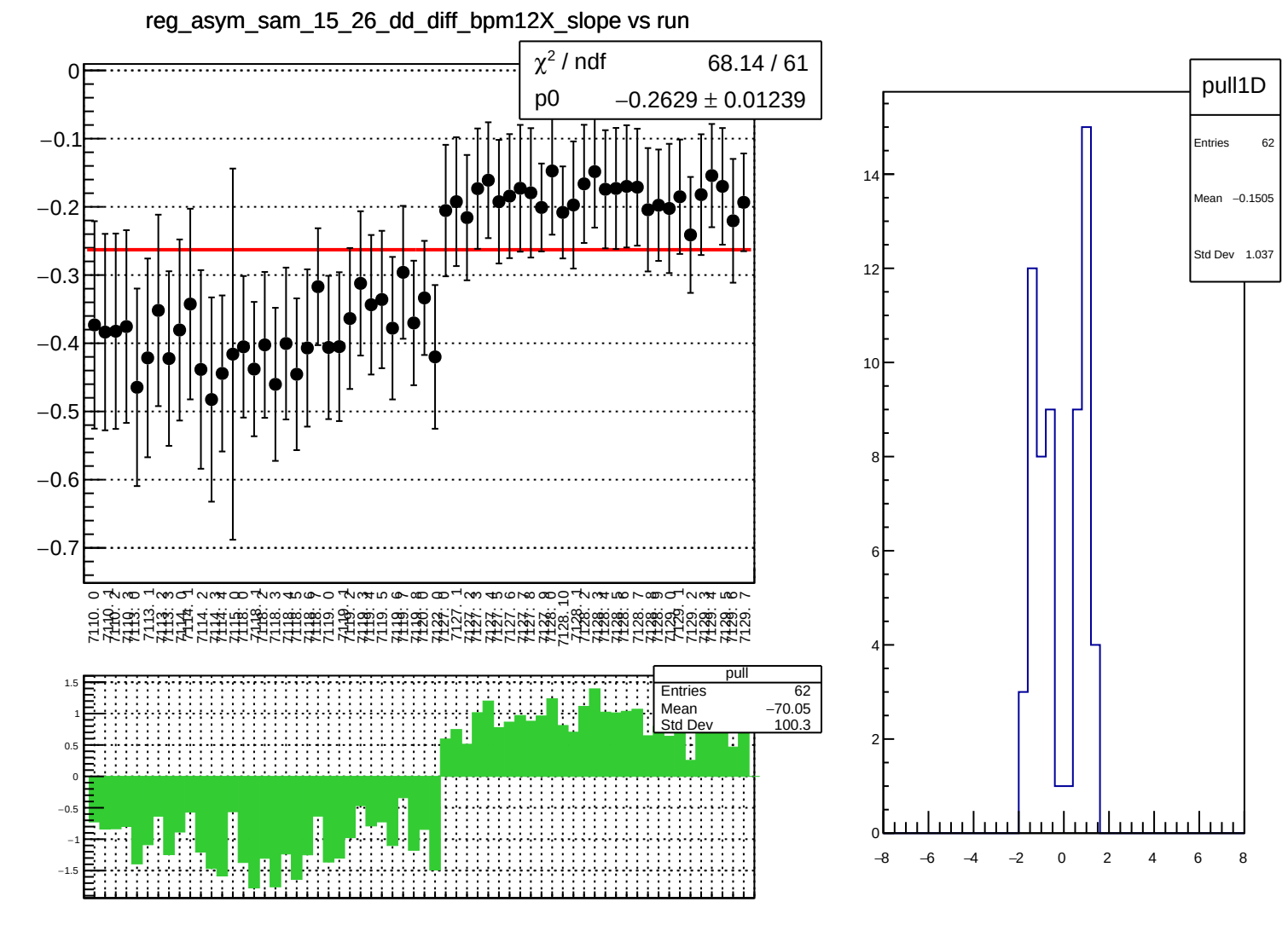

pull1D
Entries 62
Mean 0.05229
Std Dev 1.078

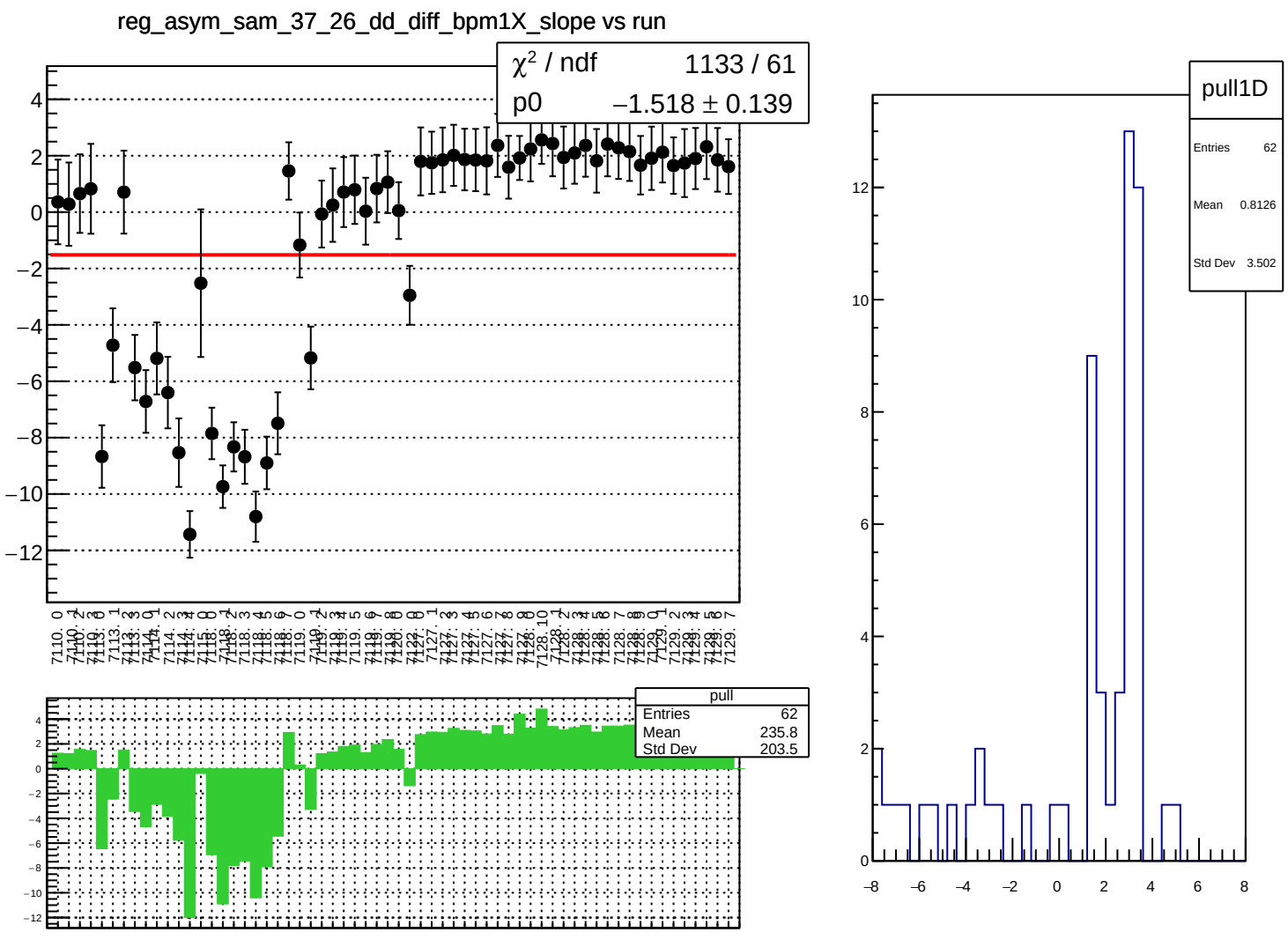

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.33 / 61
p0 −3.589 ± 0.2596
pull
Entries 62
Mean −163.9
Std Dev 196.9

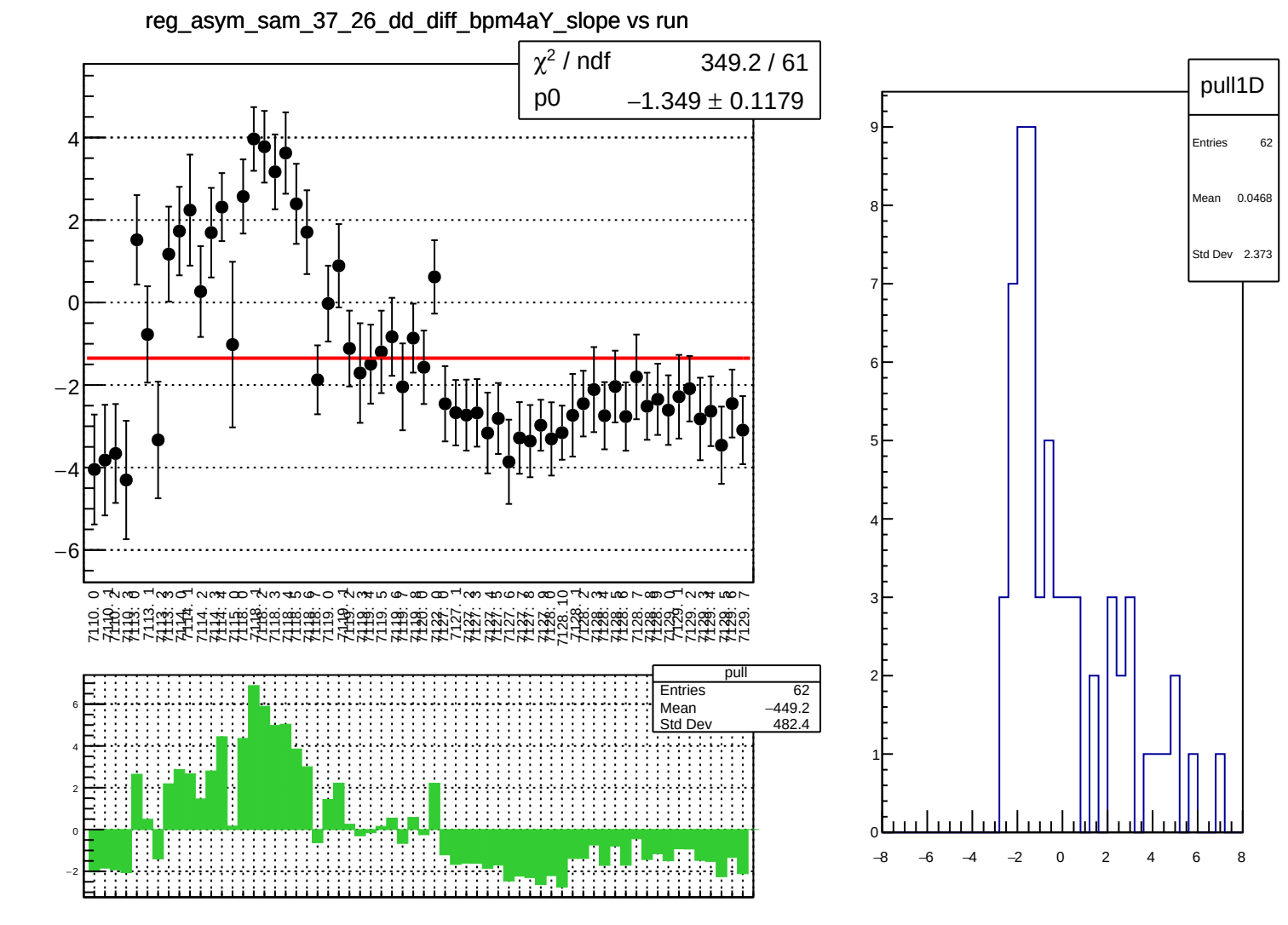

pull1D
Entries 62
Mean 0.02992
Std Dev 0.6257

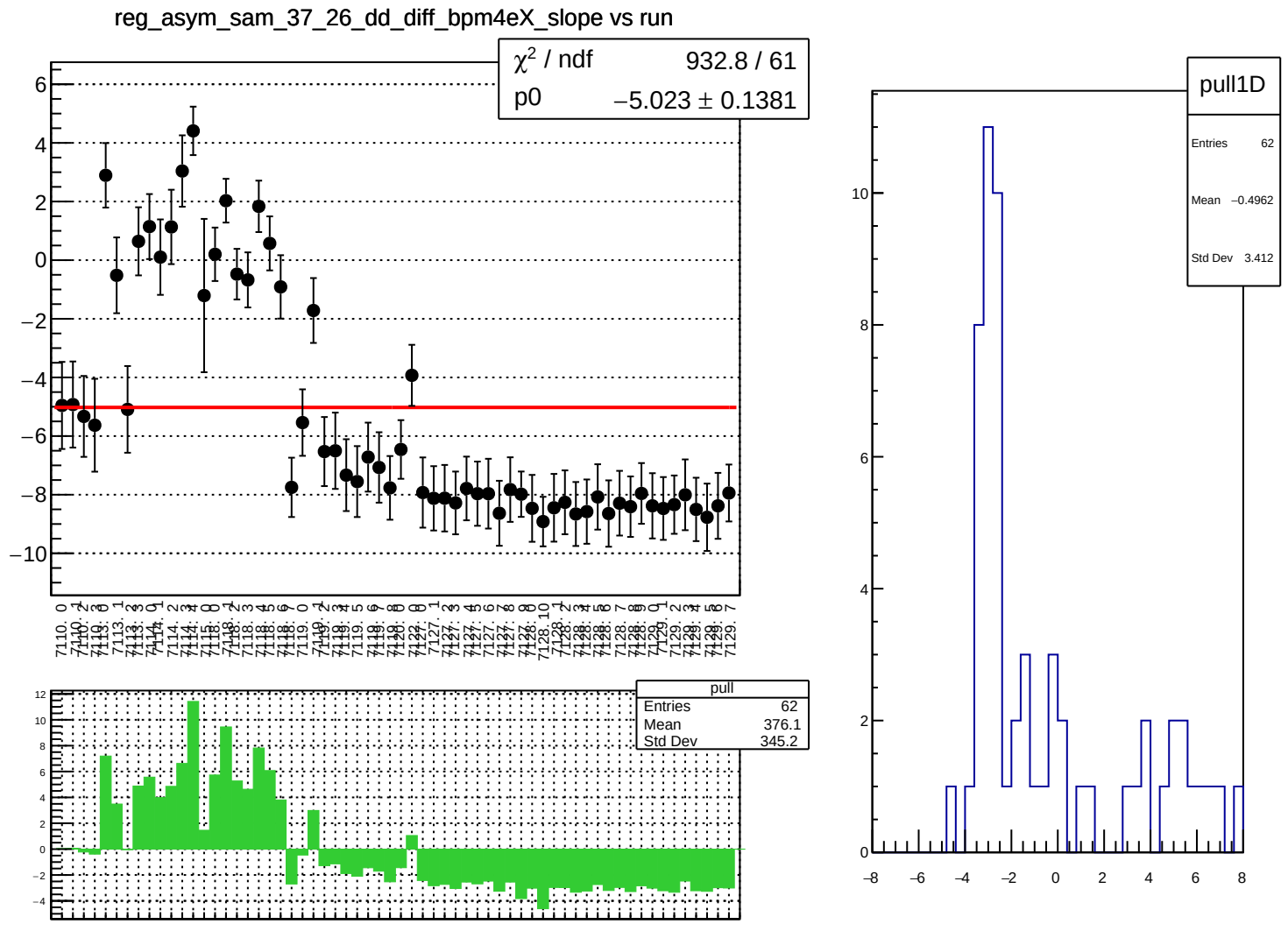

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 383.5 / 61
p0 17.84 ± 0.3061
pull
Entries 62
Mean −205.6
Std Dev 232.9
pull1D
Entries 62
Mean 0.1571
Std Dev 2.482

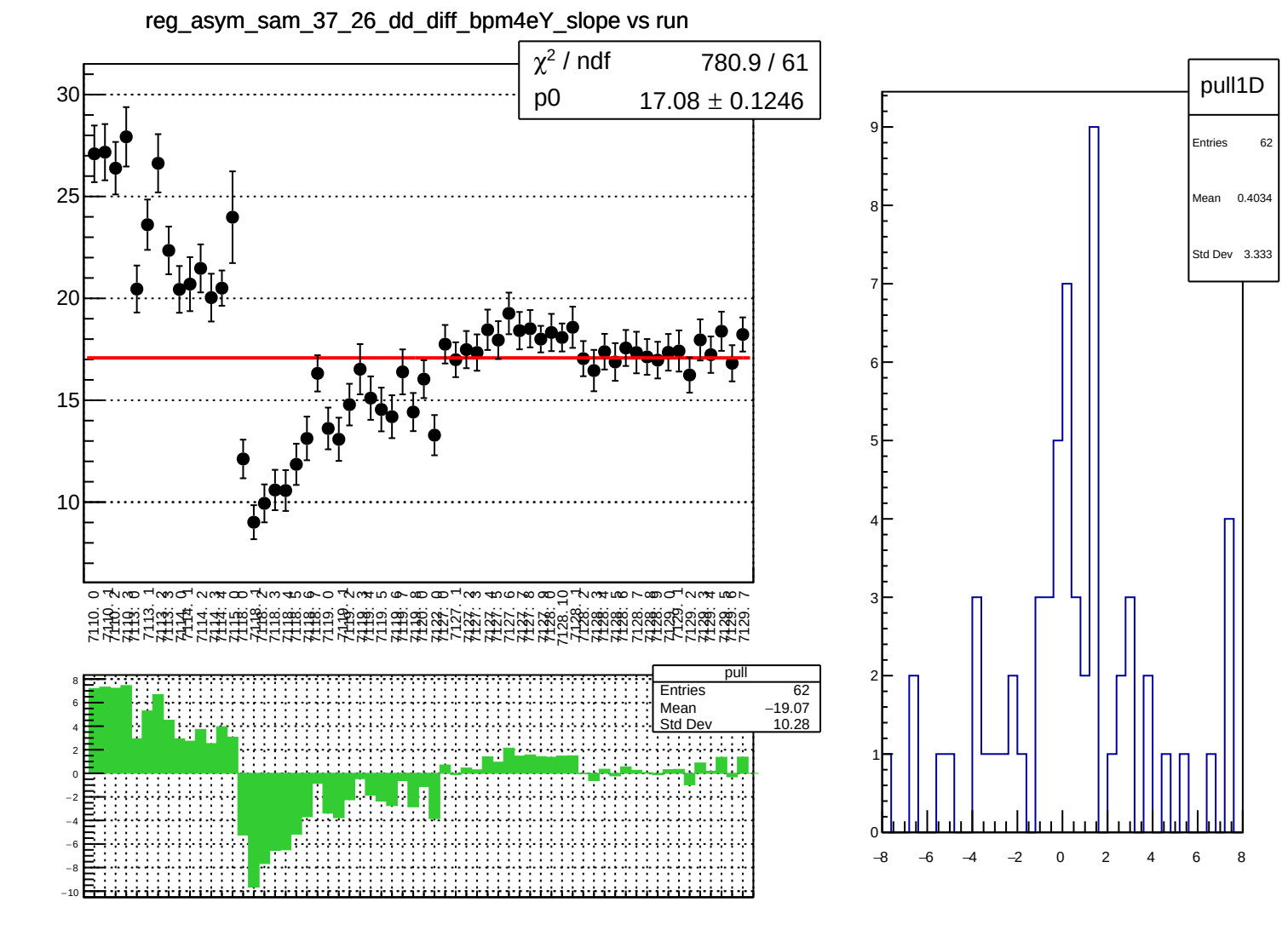

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 128.9 / 61
p0 39.73 ± 0.2742
pull
Entries 62
Mean −56.27
Std Dev 77.5
pull1D
Entries 62
Mean 0.1694
Std Dev 1.432

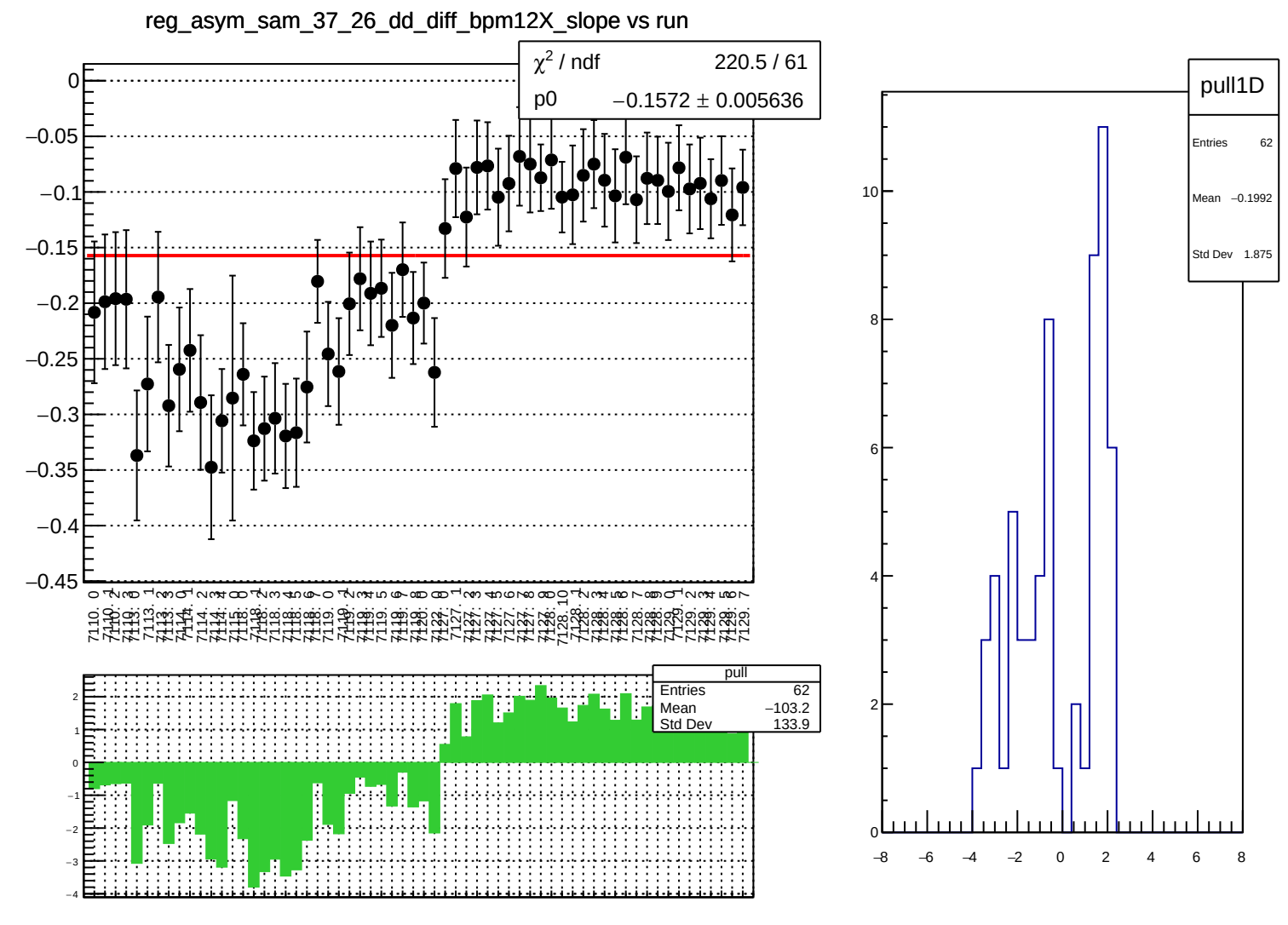

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 68.14 / 61
p0 −0.2629 ± 0.01239
pull
Entries 62
Mean −70.05
Std Dev 100.3
pull1D
Entries 62
Mean −0.1505
Std Dev 1.037

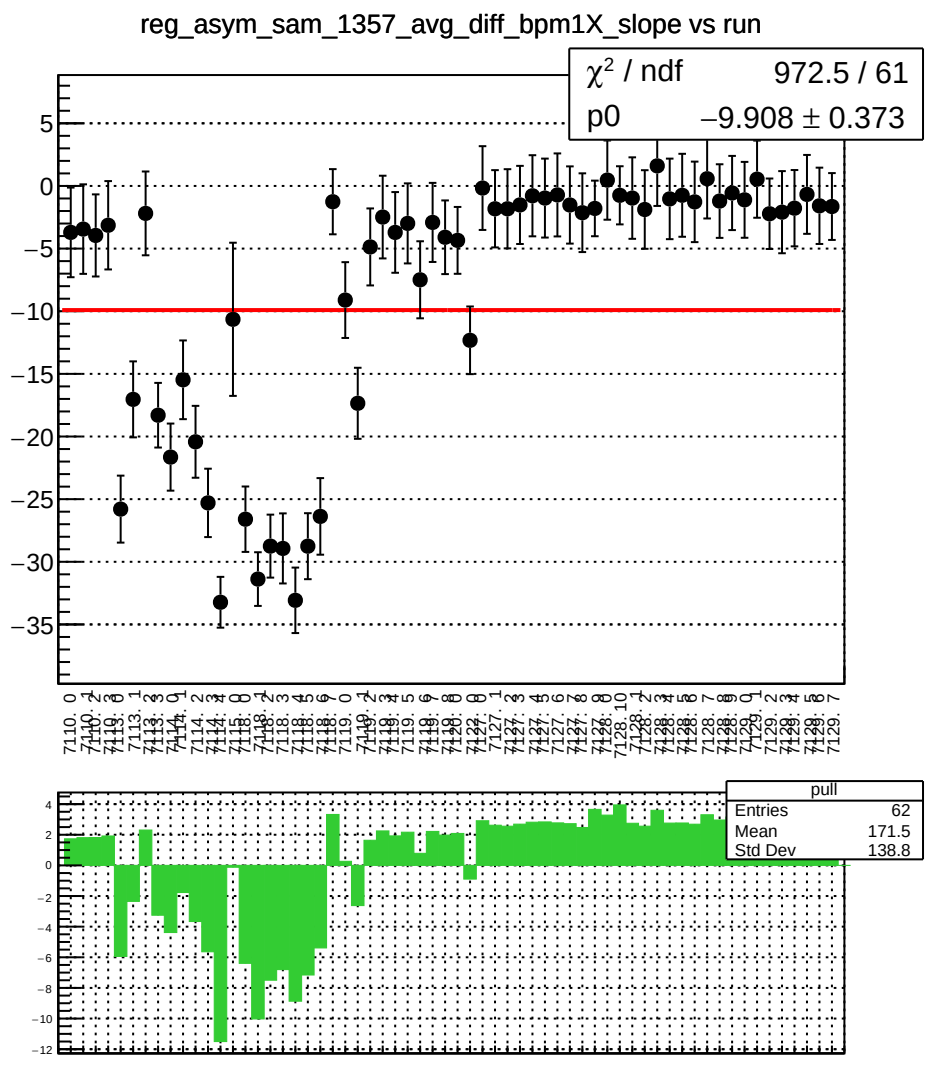

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1133 / 61
p0 −1.518 ± 0.139
pull
Entries 62
Mean 235.8
Std Dev 203.5
pull1D
Entries 62
Mean 0.8126
Std Dev 3.502

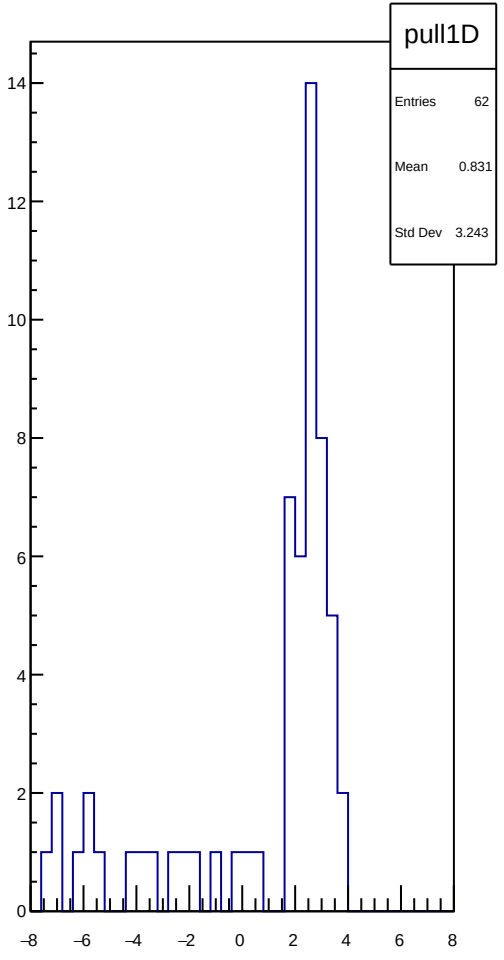

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 349.2 / 61
p0 −1.349 ± 0.1179
pull
Entries 62
Mean −449.2
Std Dev 482.4
pull1D
Entries 62
Mean 0.0468
Std Dev 2.373

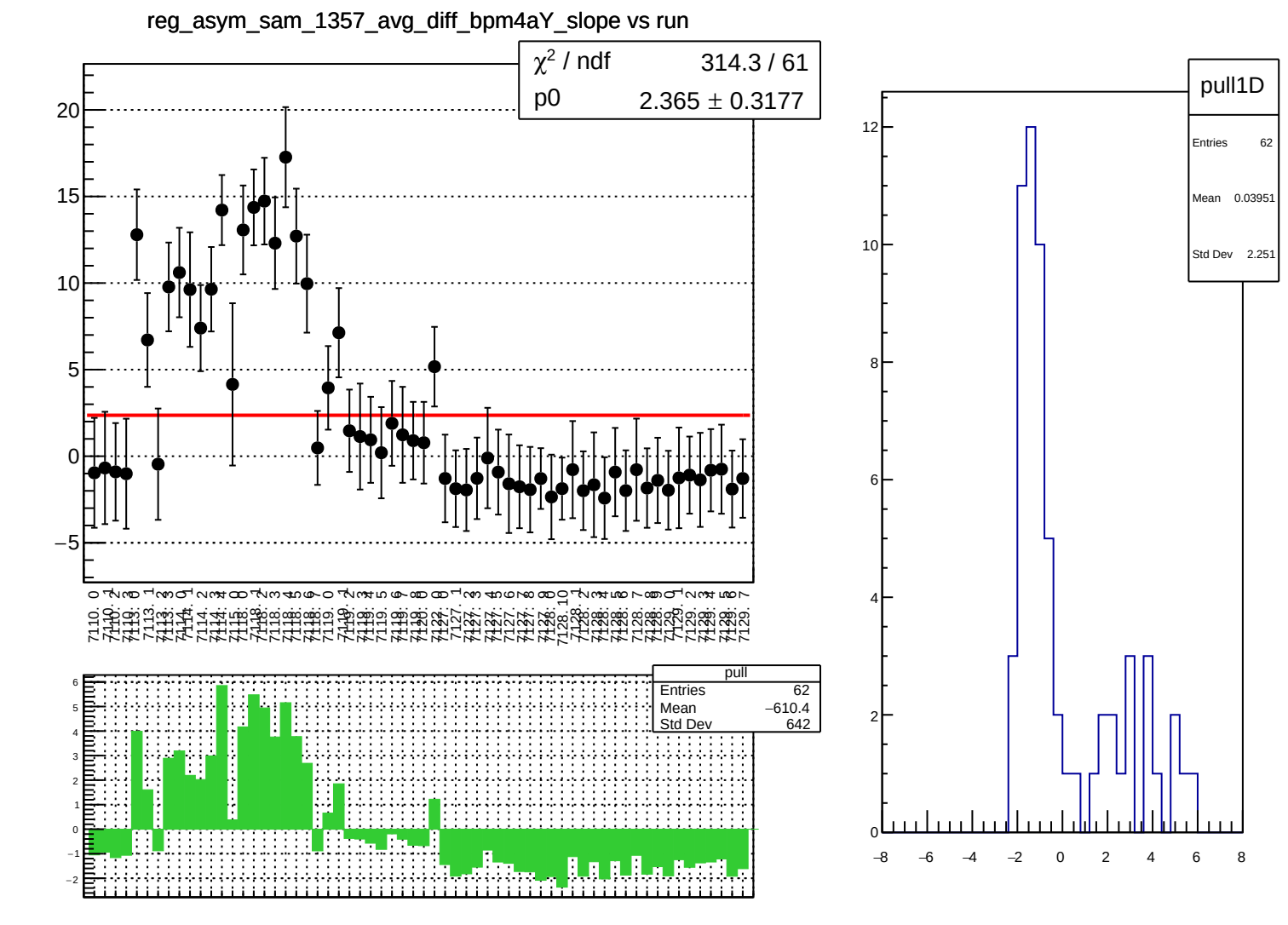

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 932.8 / 61
p0 −5.023 ± 0.1381
pull
Entries 62
Mean 376.1
Std Dev 345.2
pull1D
Entries 62
Mean −0.4962
Std Dev 3.412

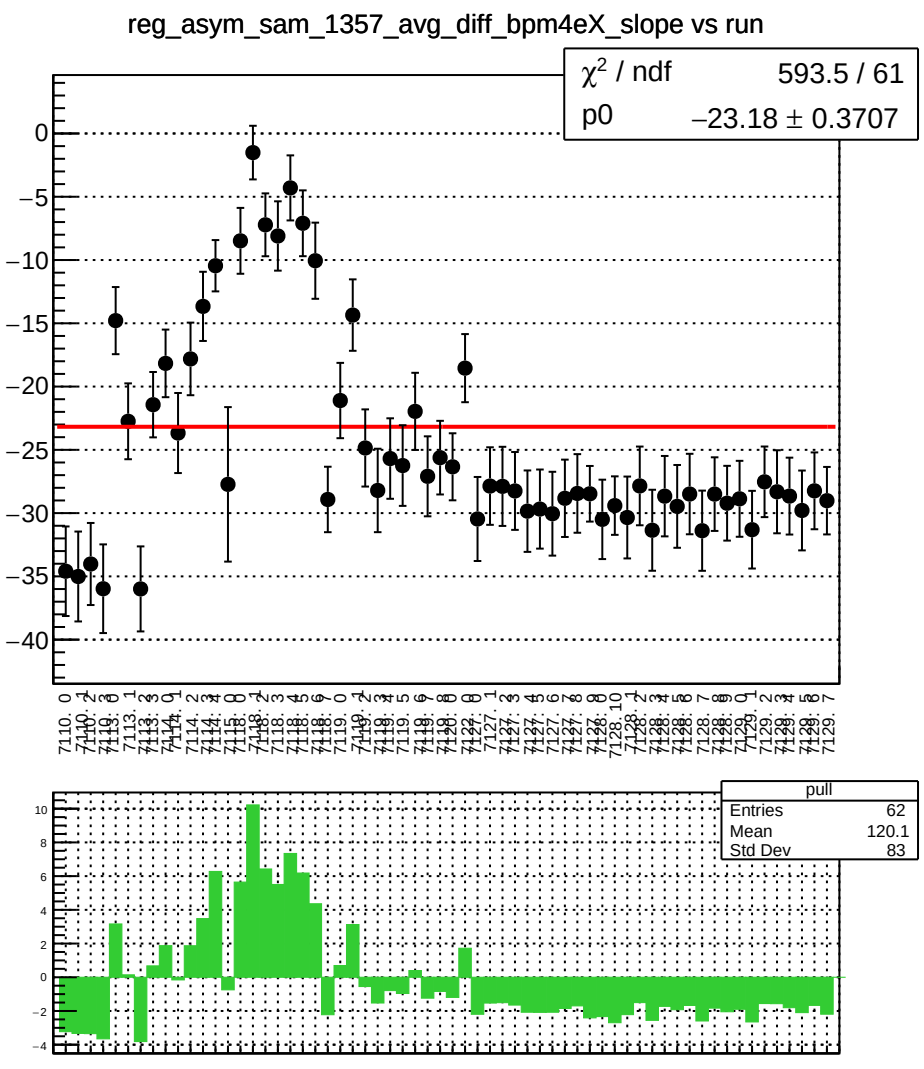

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 780.9 / 61
p0 17.08 ± 0.1246
pull
Entries 62
Mean −19.07
Std Dev 10.28
pull1D
Entries 62
Mean 0.4034
Std Dev 3.333

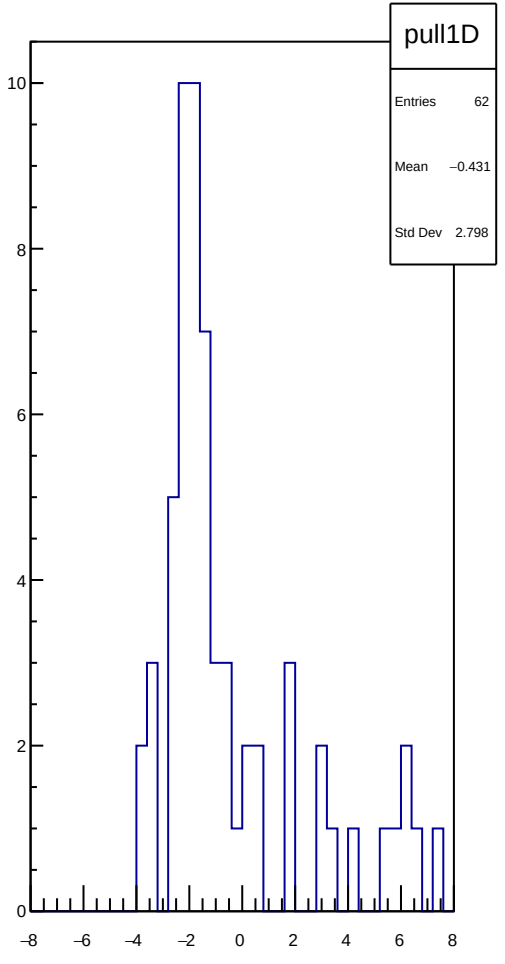

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 220.5 / 61
p0 −0.1572 ± 0.005636
pull
Entries 62
Mean −103.2
Std Dev 133.9
pull1D
Entries 62
Mean −0.1992
Std Dev 1.875

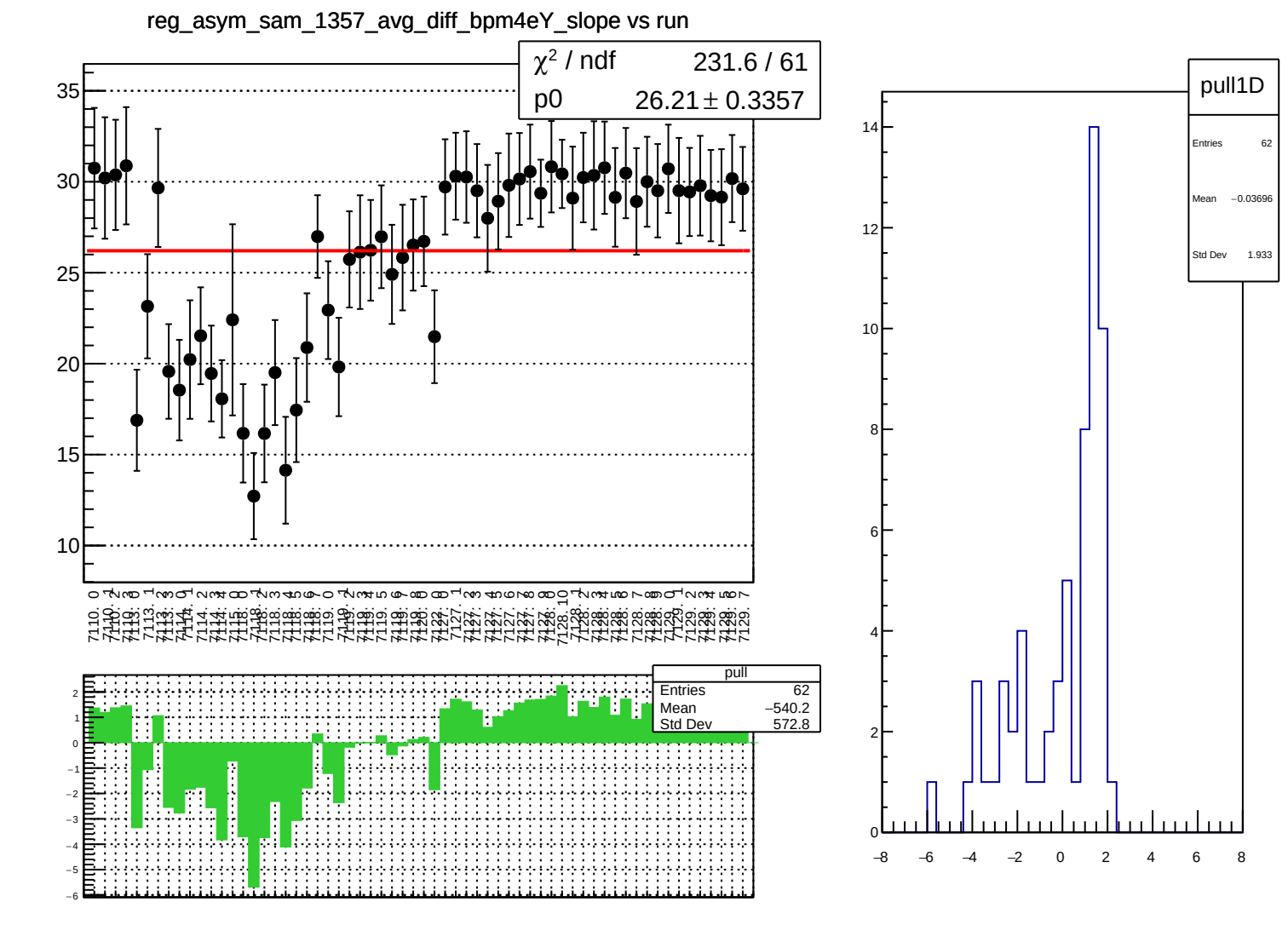

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 972.5 / 61
p0 −9.908 ± 0.373
pull
Entries 62
Mean 171.5
Std Dev 138.8

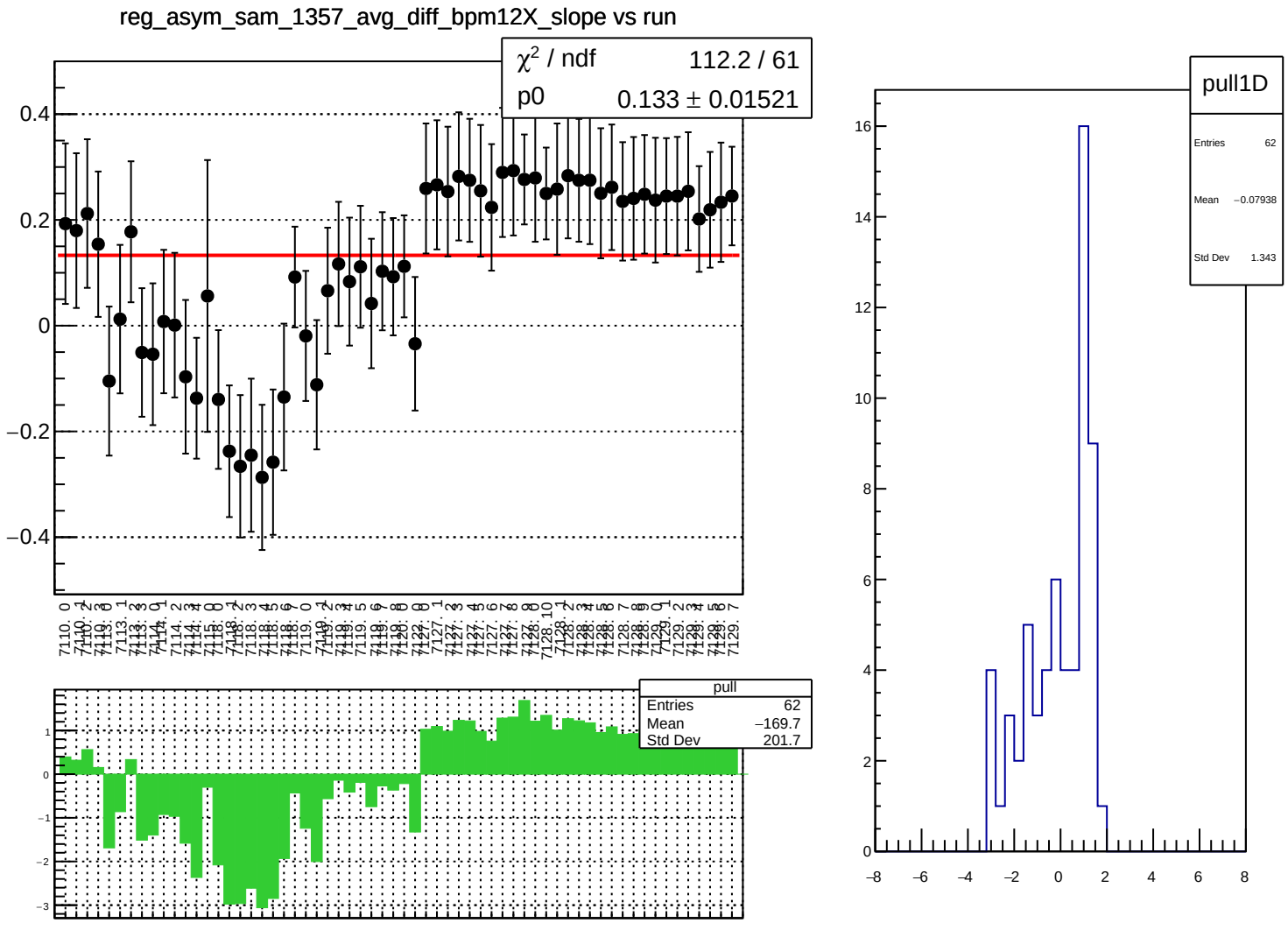

pull1D
Entries 62
Mean 0.831
Std Dev 3.243

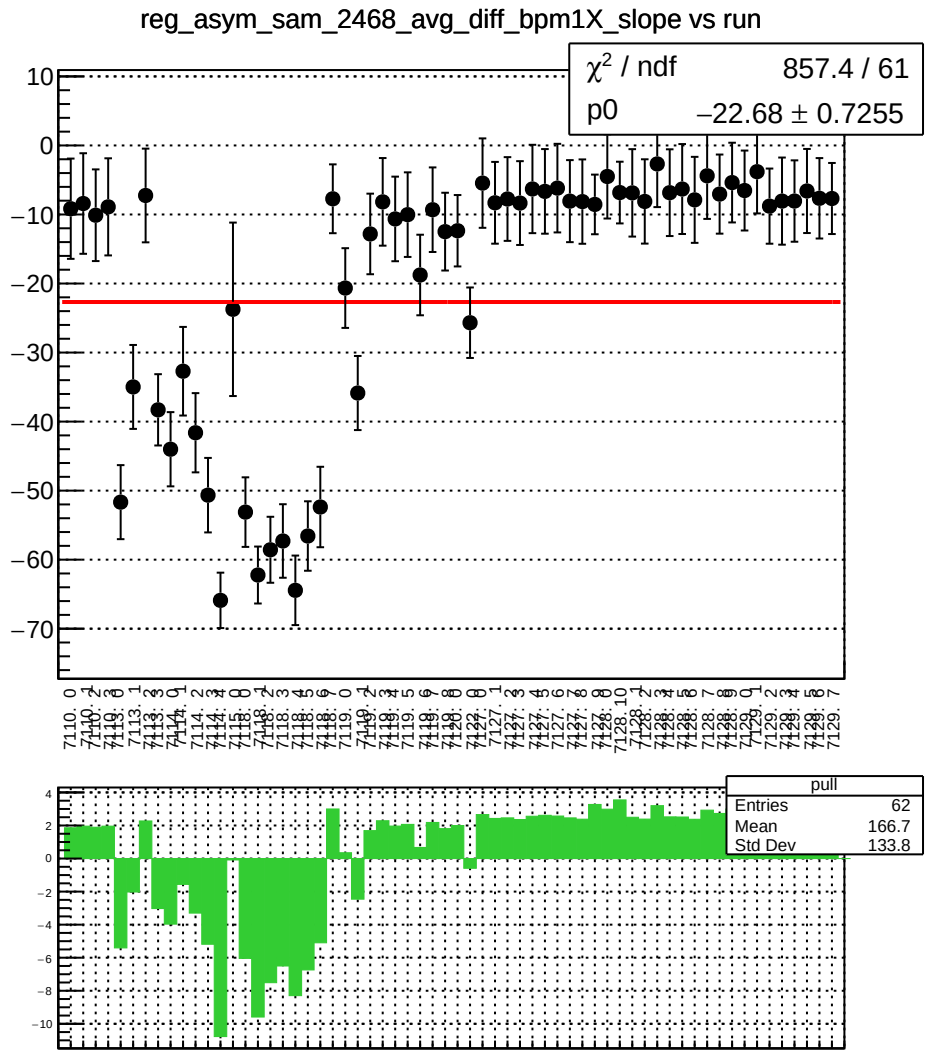

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 314.3 / 61
p0 2.365 ± 0.3177
pull
Entries 62
Mean −610.4
Std Dev 642
pull1D
Entries 62
Mean 0.03951
Std Dev 2.251

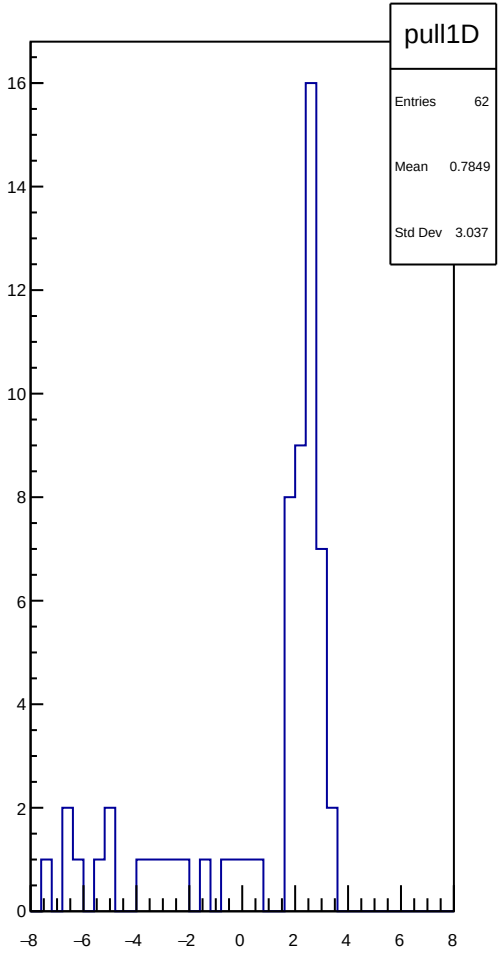

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 593.5 / 61
p0 −23.18 ± 0.3707
pull
Entries 62
Mean 120.1
Std Dev 83

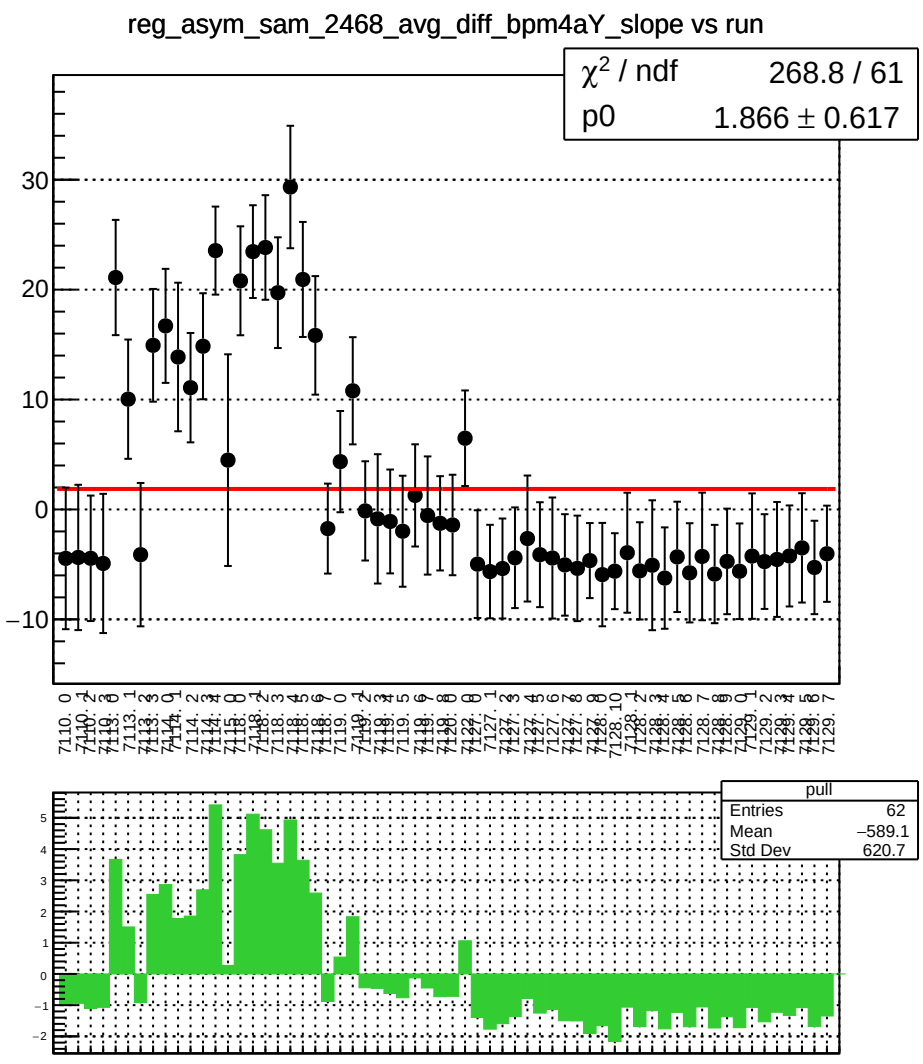

pull1D
Entries 62
Mean −0.431
Std Dev 2.798

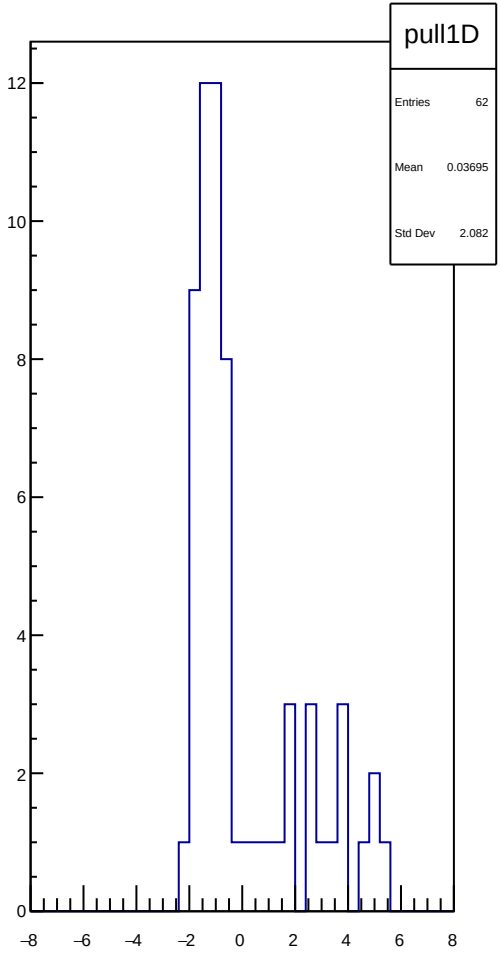

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 231.6 / 61
p0 26.21 ± 0.3357
pull
Entries 62
Mean −540.2
Std Dev 572.8
pull1D
Entries 62
Mean −0.03696
Std Dev 1.933

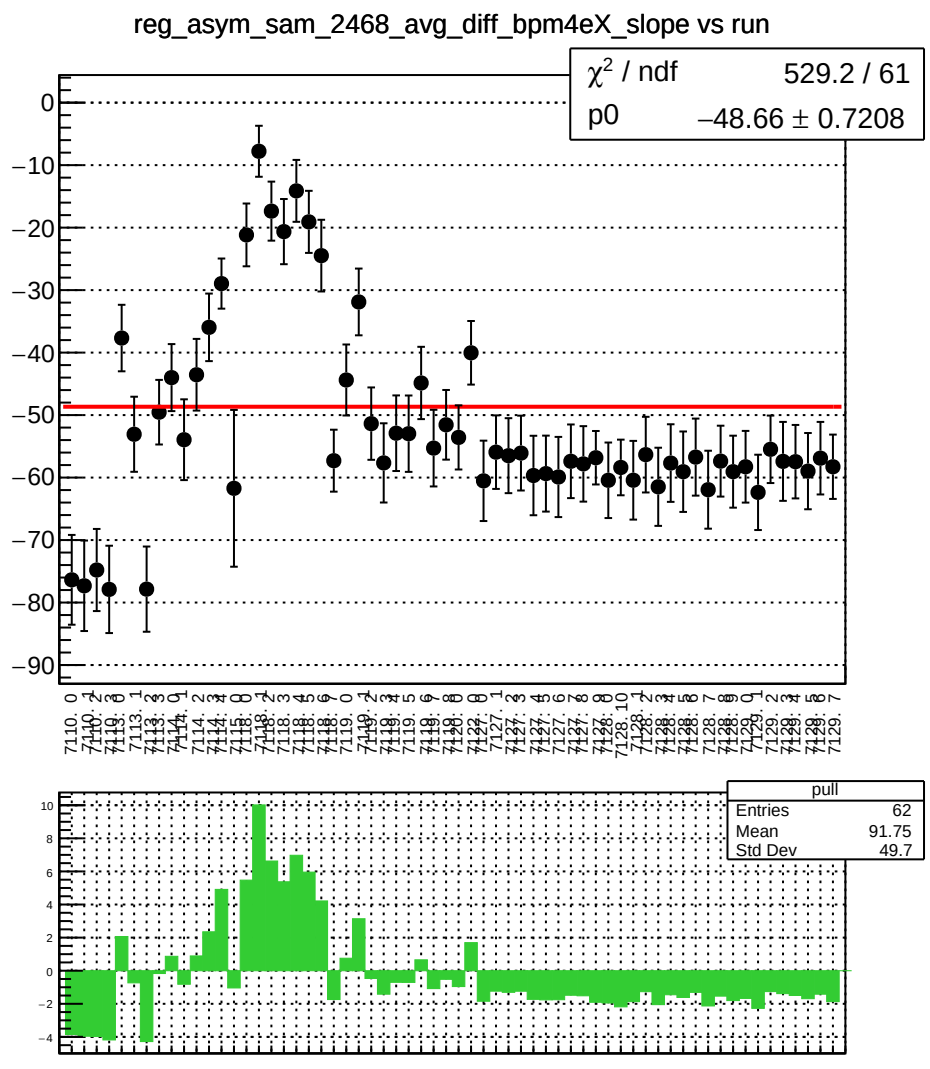

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 112.2 / 61
p0 0.133 ± 0.01521
pull
Entries 62
Mean −169.7
Std Dev 201.7
pull1D
Entries 62
Mean −0.07938
Std Dev 1.343

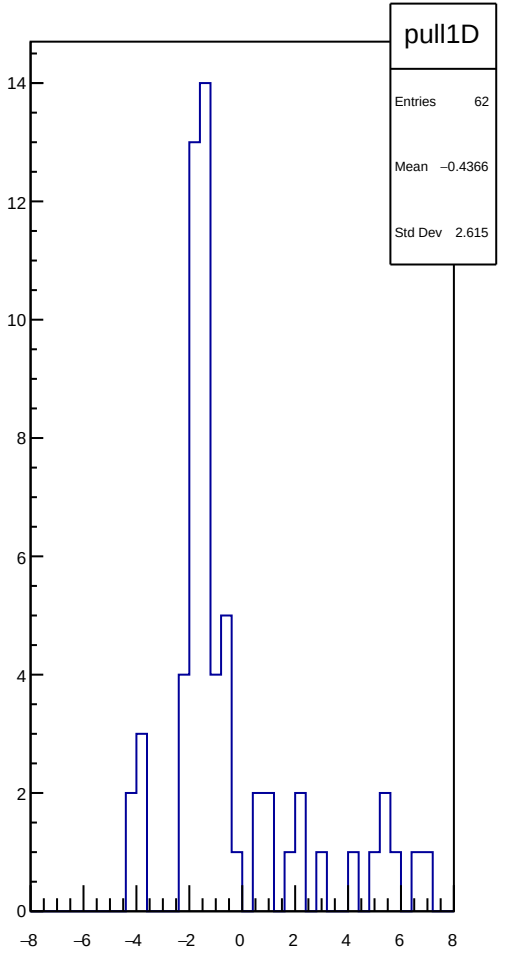

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 857.4 / 61
p0 −22.68 ± 0.7255
pull
Entries 62
Mean 166.7
Std Dev 133.8

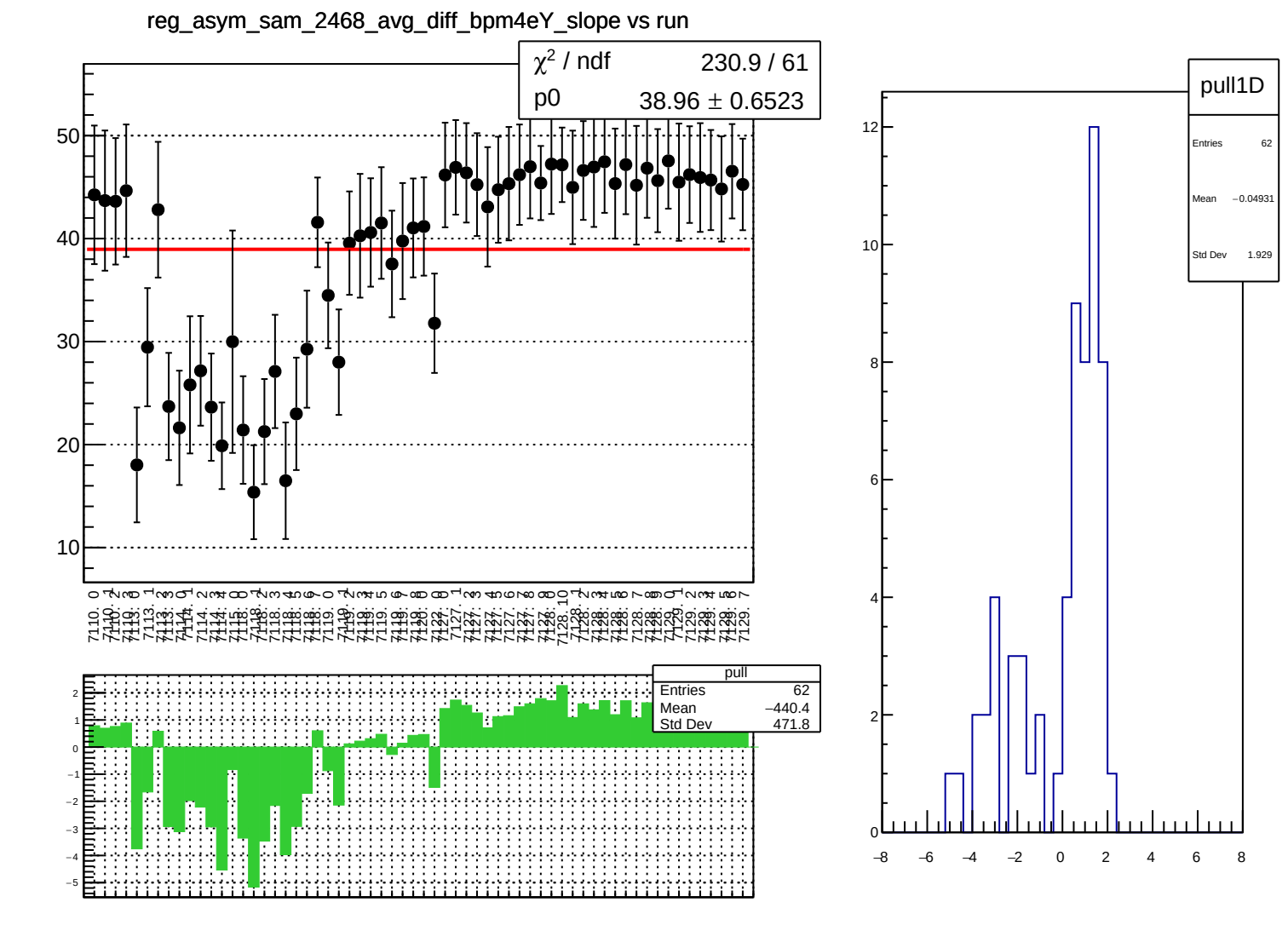

pull1D
Entries 62
Mean 0.7849
Std Dev 3.037

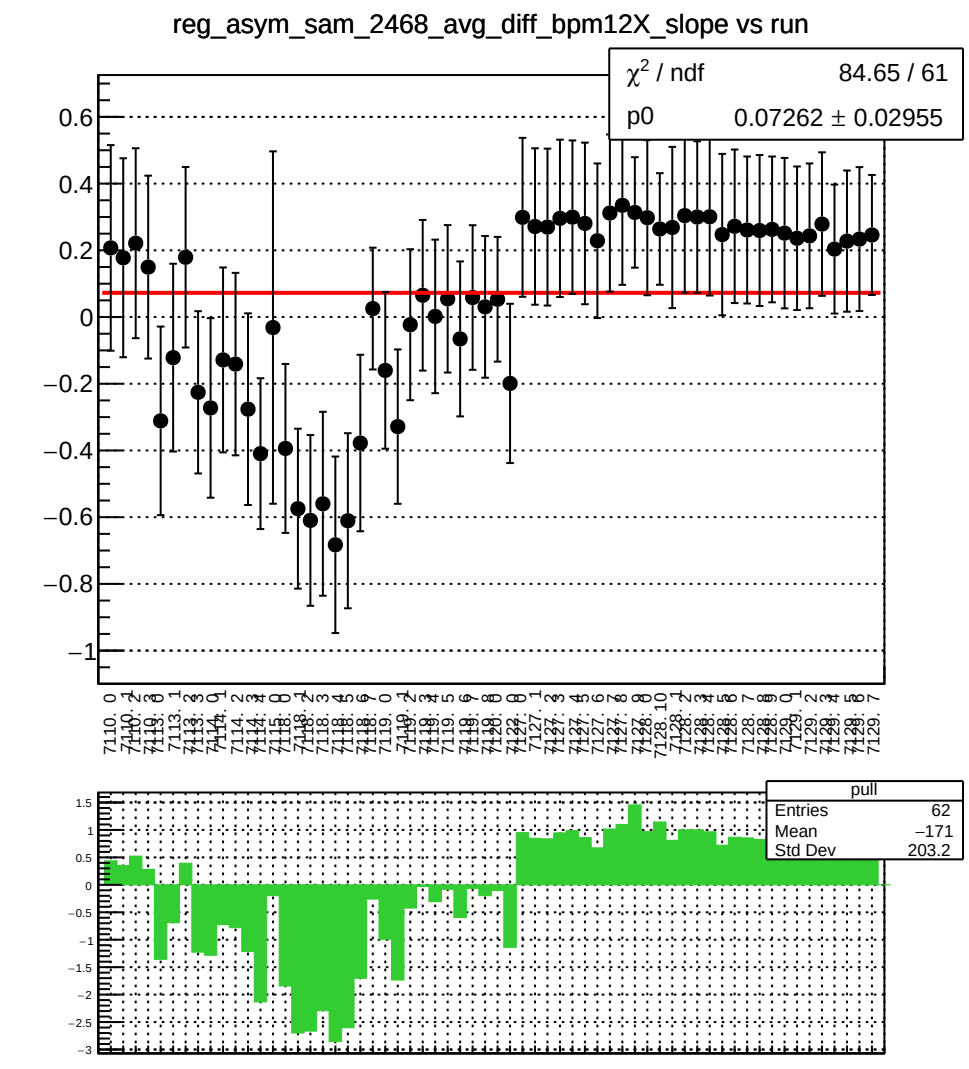

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 268.8 / 61
p0 1.866 ± 0.617
pull
Entries 62
Mean −589.1
Std Dev 620.7

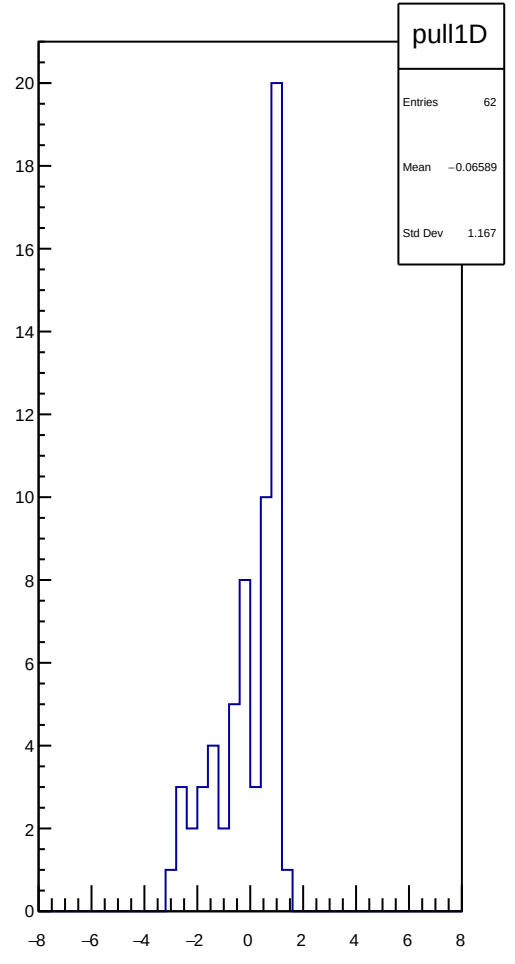

pull1D
Entries 62
Mean 0.03695
Std Dev 2.082

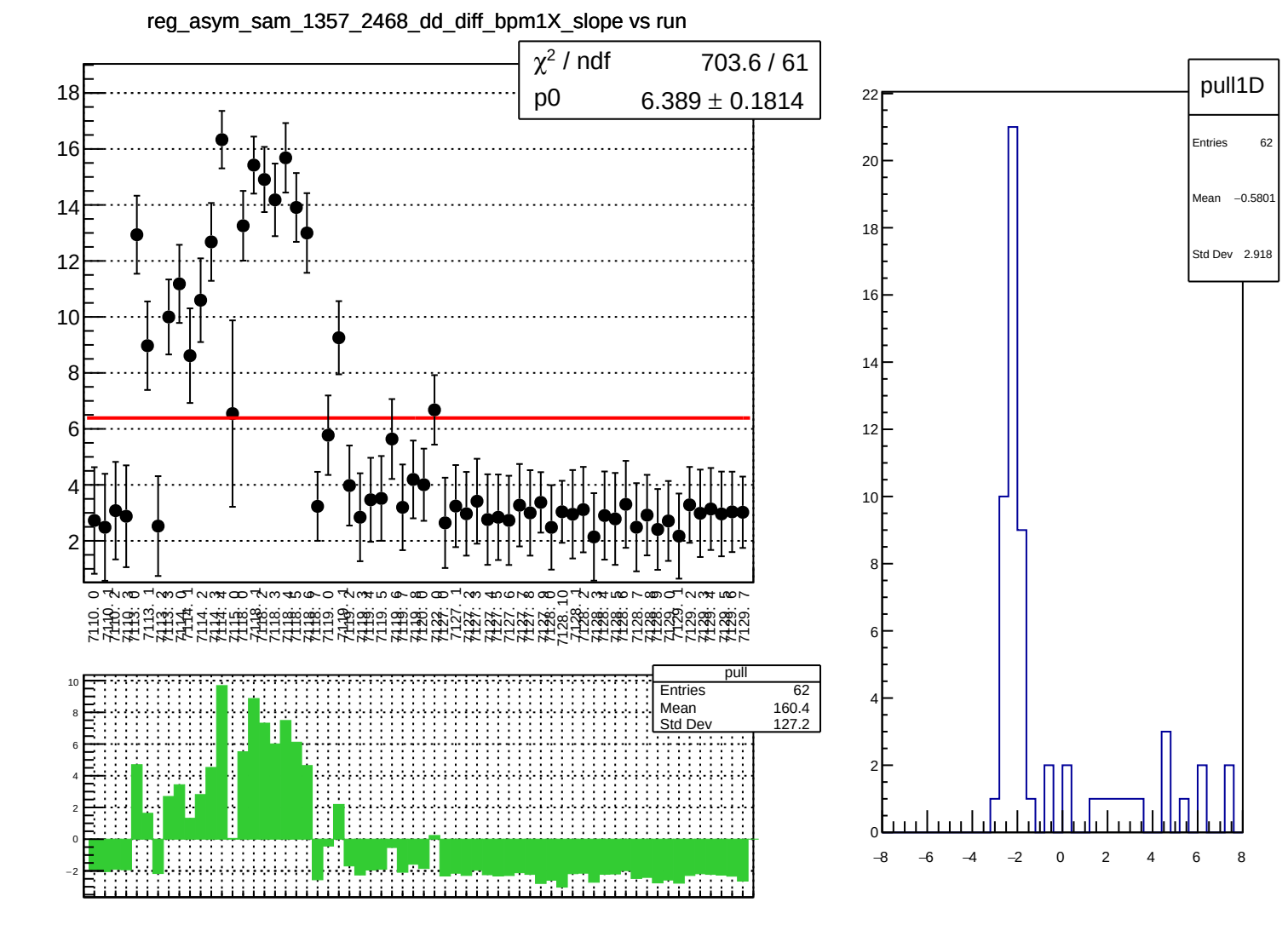

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 529.2 / 61
p0 −48.66 ± 0.7208
pull
Entries 62
Mean 91.75
Std Dev 49.7

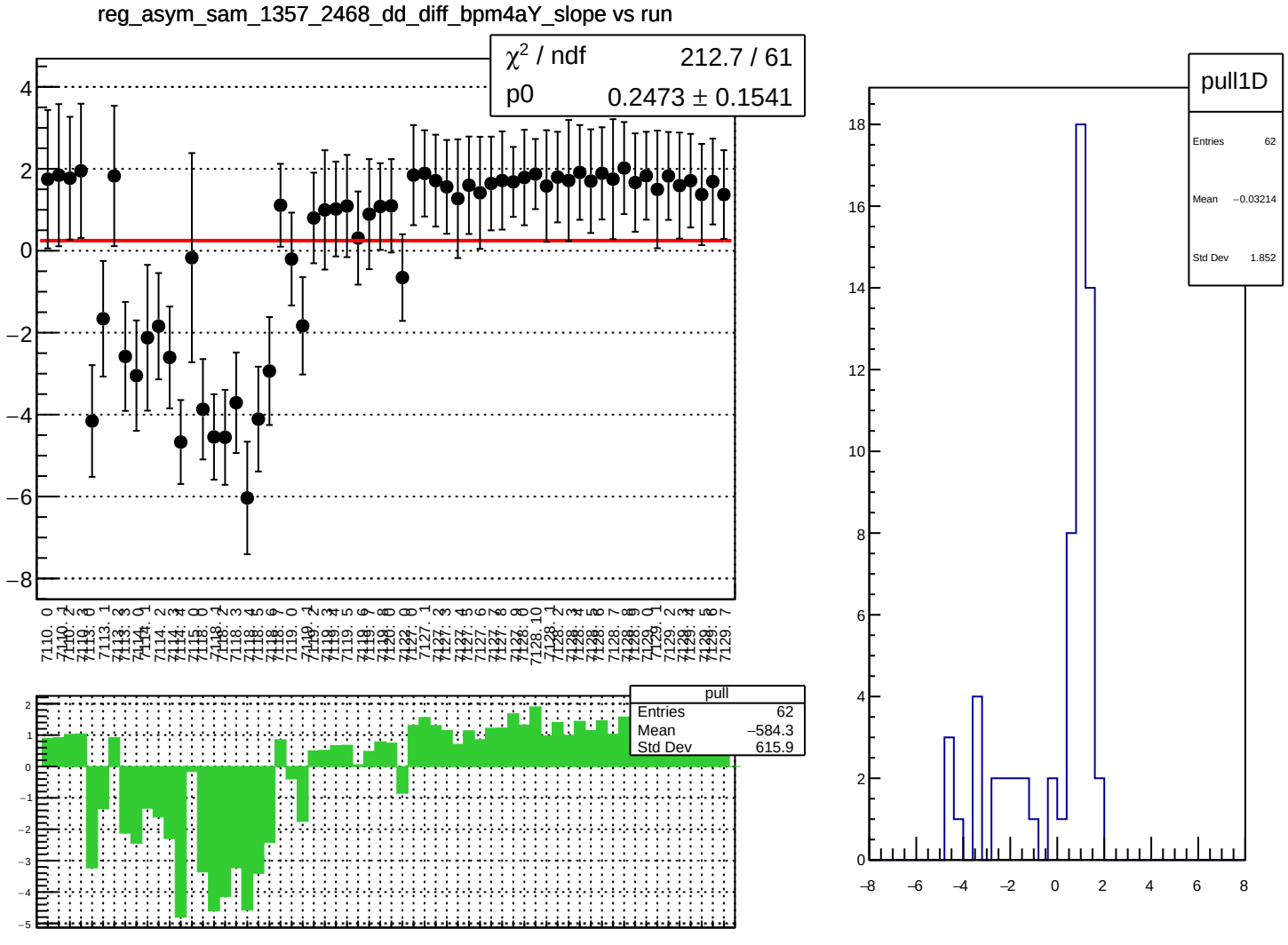

pull1D
Entries 62
Mean −0.4366
Std Dev 2.615

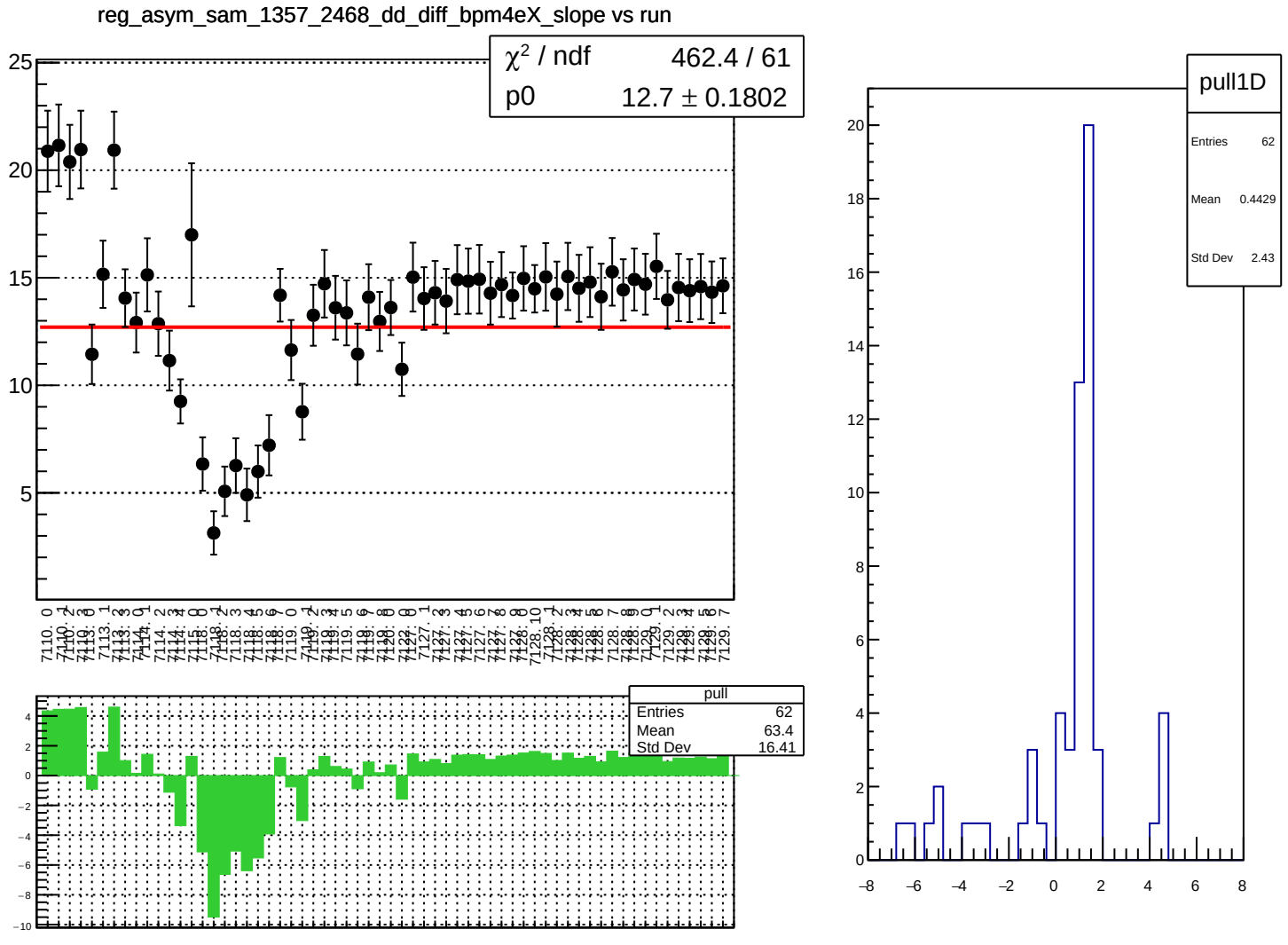

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 230.9 / 61
p0 38.96 ± 0.6523
pull
Entries 62
Mean −440.4
Std Dev 471.8
pull1D
Entries 62
Mean −0.04931
Std Dev 1.929

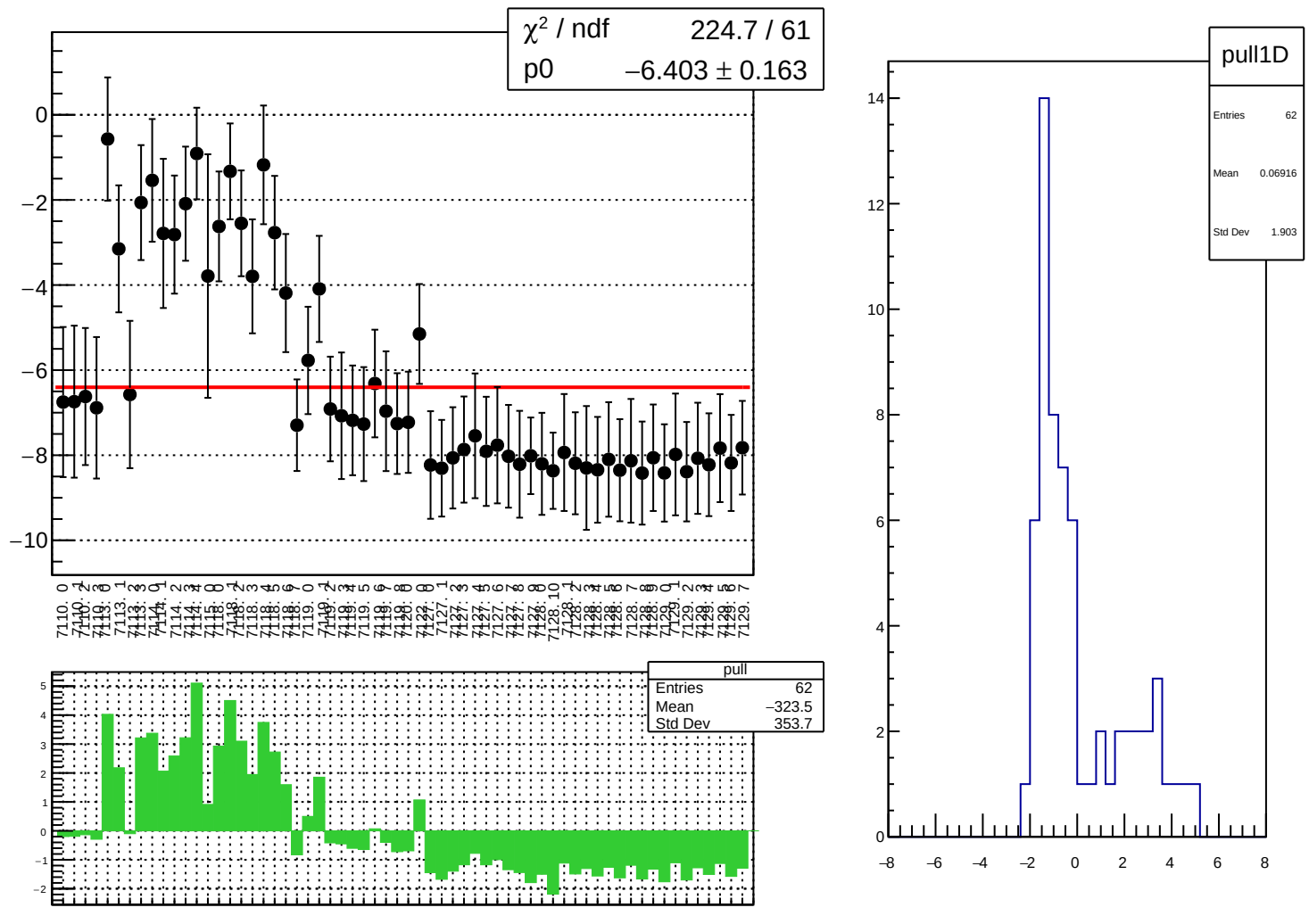

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 84.65 / 61
p0 0.07262 ± 0.02955
pull
Entries 62
Mean −171
Std Dev 203.2

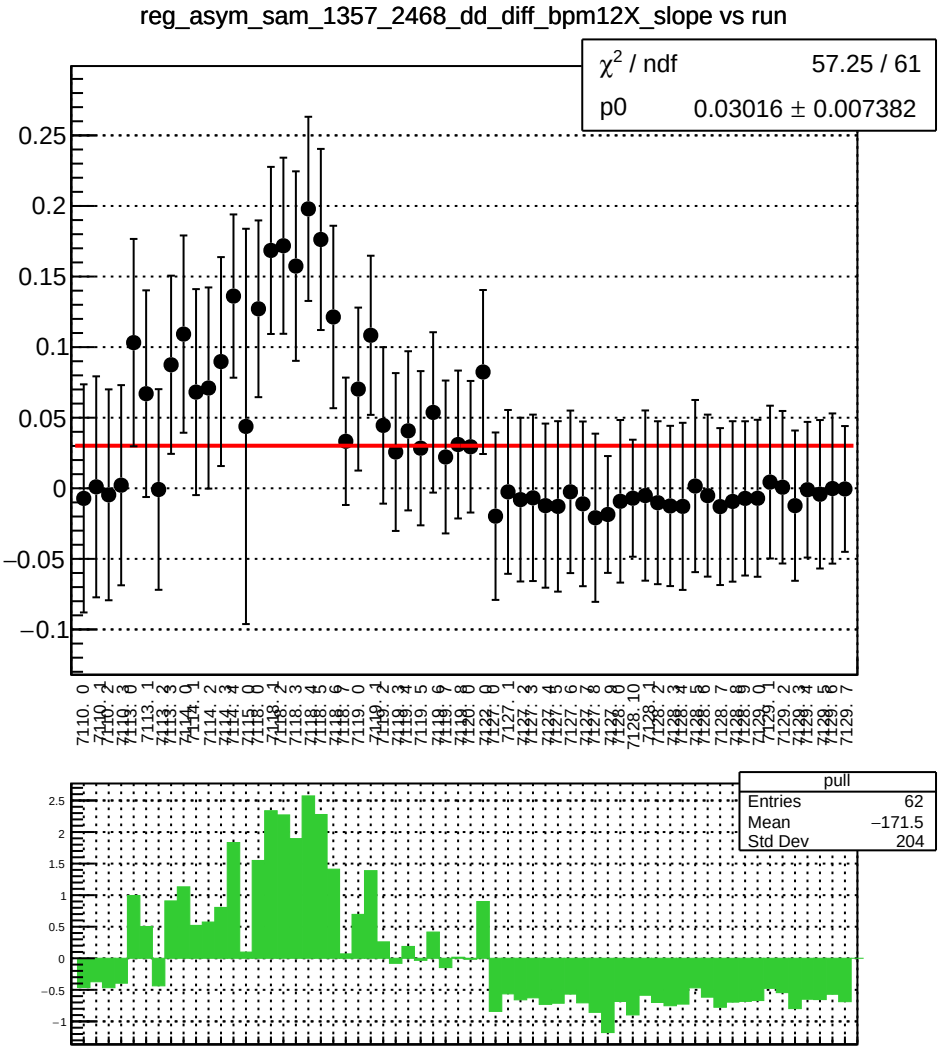

pull1D
Entries 62
Mean −0.06589
Std Dev 1.167

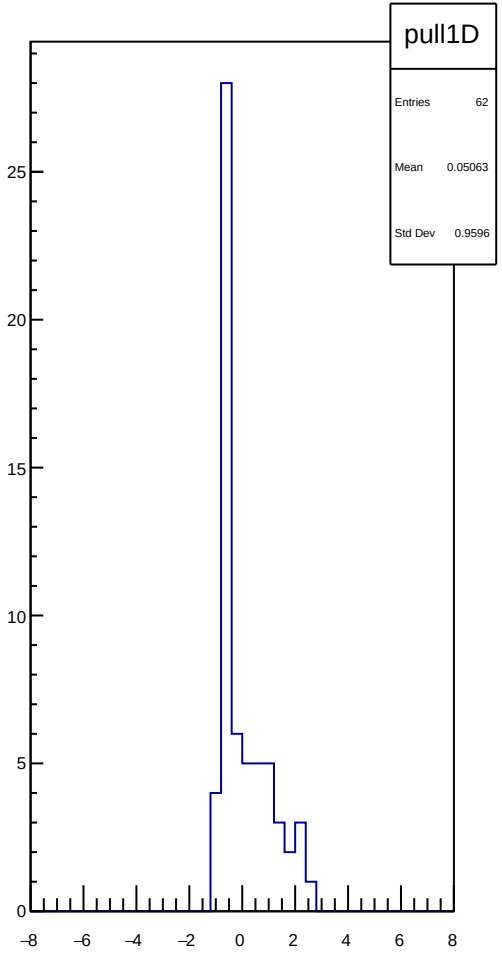

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 703.6 / 61
p0 6.389 ± 0.1814
pull
Entries 62
Mean 160.4
Std Dev 127.2
pull1D
Entries 62
Mean −0.5801
Std Dev 2.918

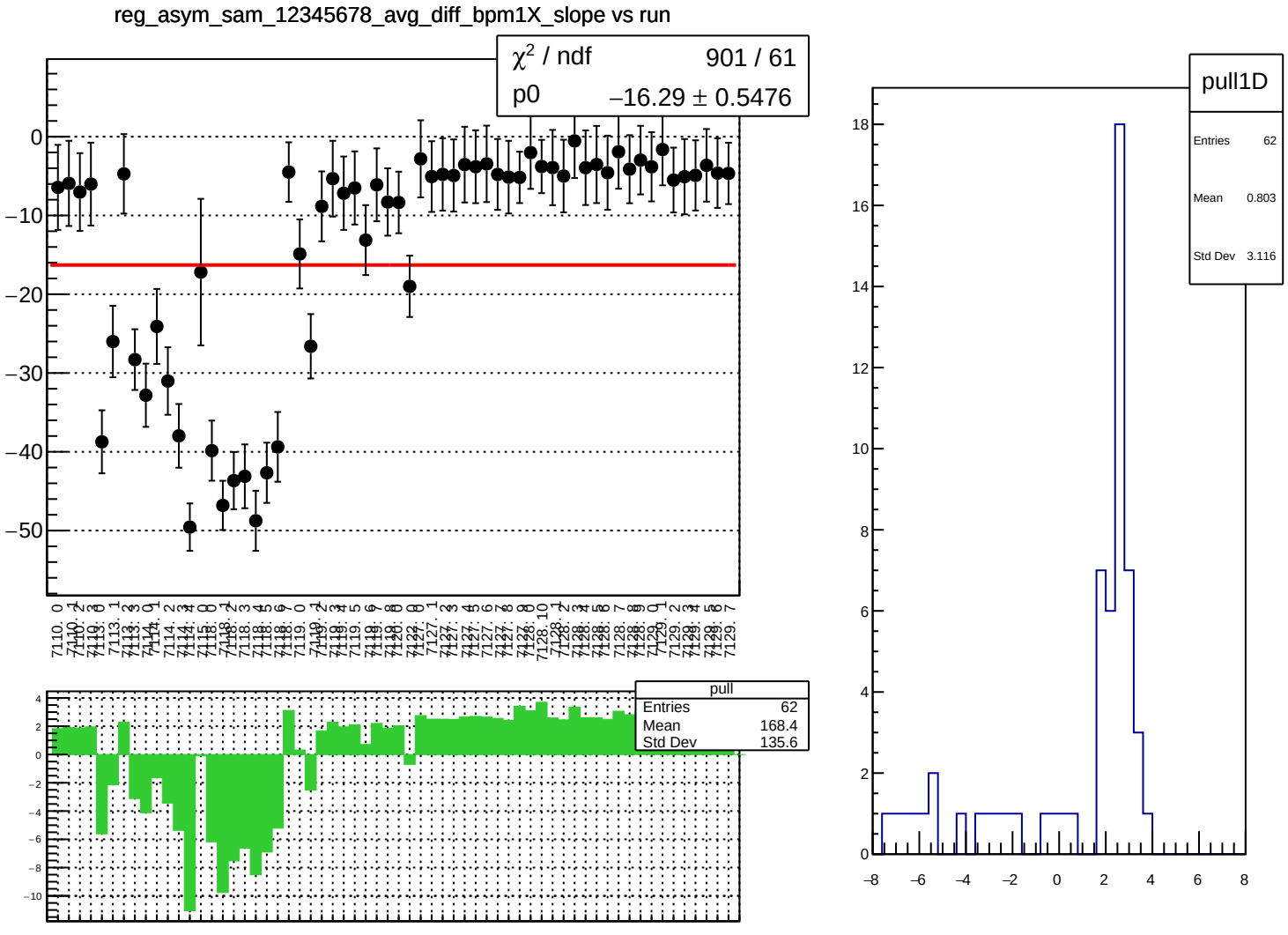

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 212.7 / 61
p0 0.2473 ± 0.1541
pull
Entries 62
Mean −584.3
Std Dev 615.9
pull1D
Entries 62
Mean −0.03214
Std Dev 1.852

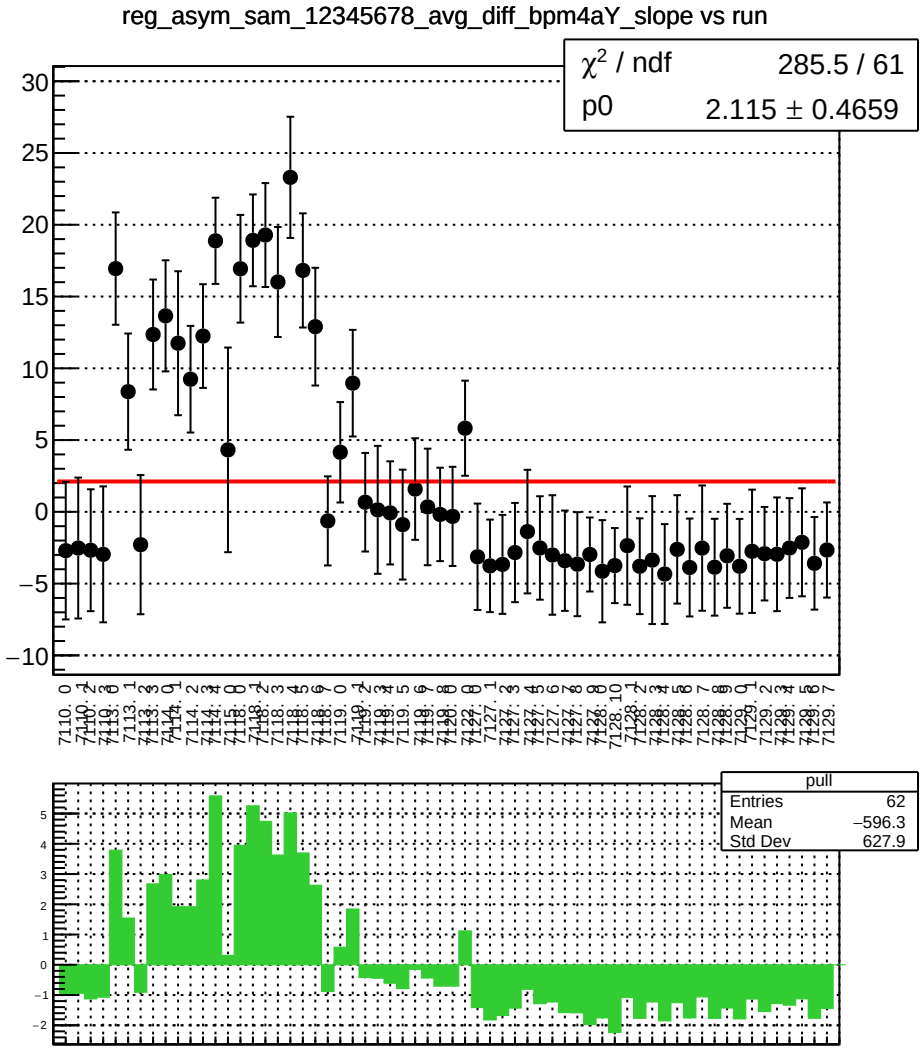

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 462.4 / 61
p0 12.7 ± 0.1802
pull
Entries 62
Mean 63.4
Std Dev 16.41
pull1D
Entries 62
Mean 0.4429
Std Dev 2.43

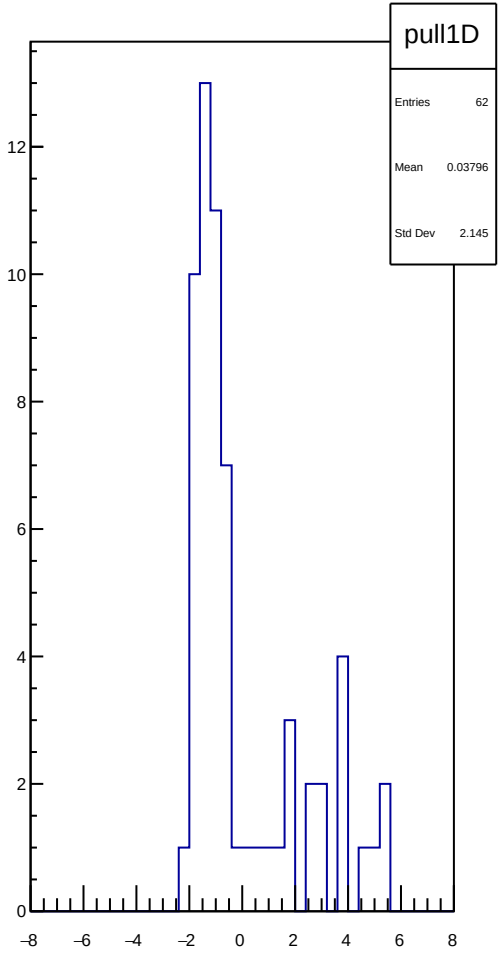

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 224.7 / 61
p0 −6.403 ± 0.163
pull
Entries 62
Mean −323.5
Std Dev 353.7
pull1D
Entries 62
Mean 0.06916
Std Dev 1.903

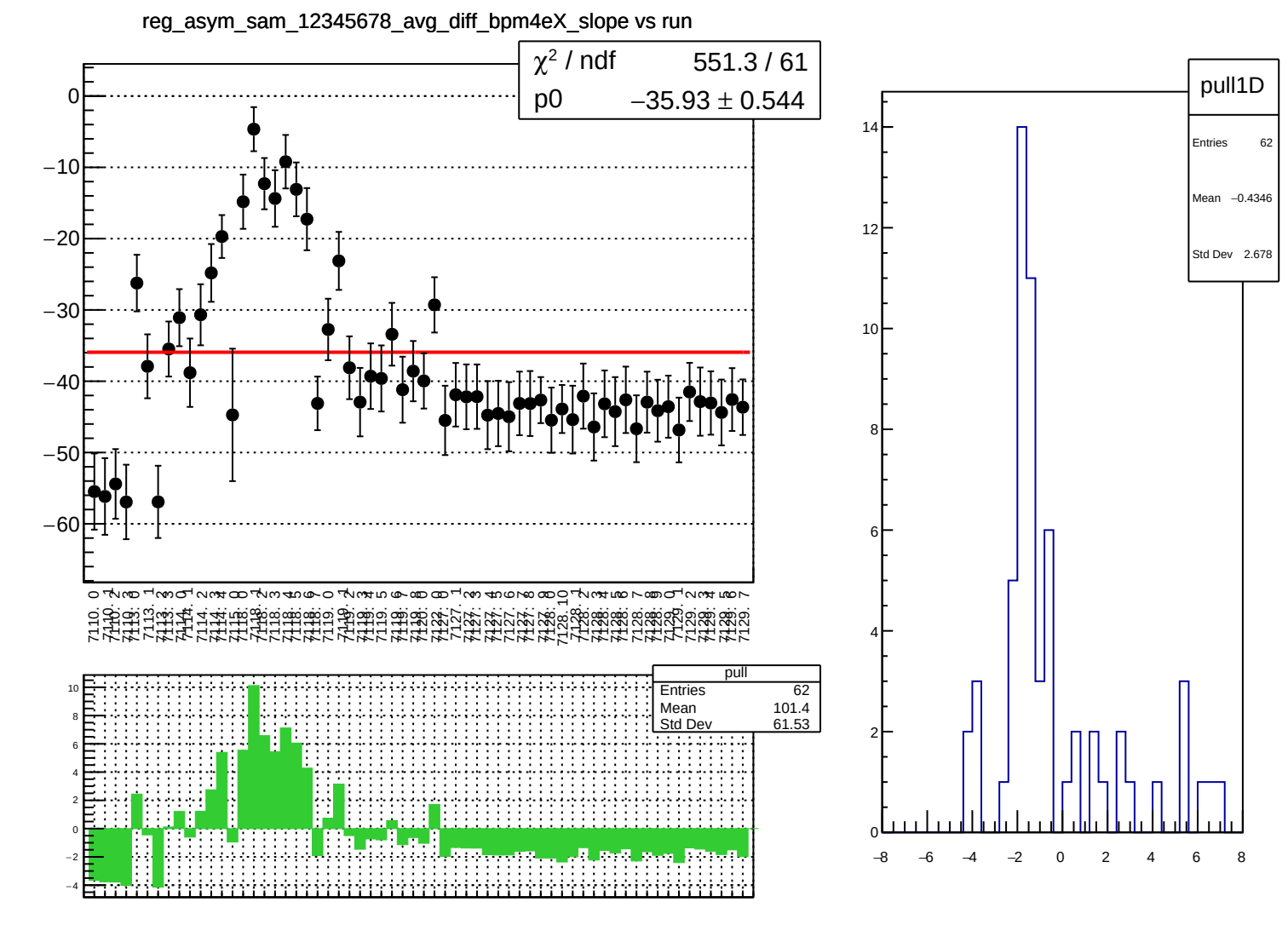

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 57.25 / 61
p0 0.03016 ± 0.007382
pull
Entries 62
Mean −171.5
Std Dev 204

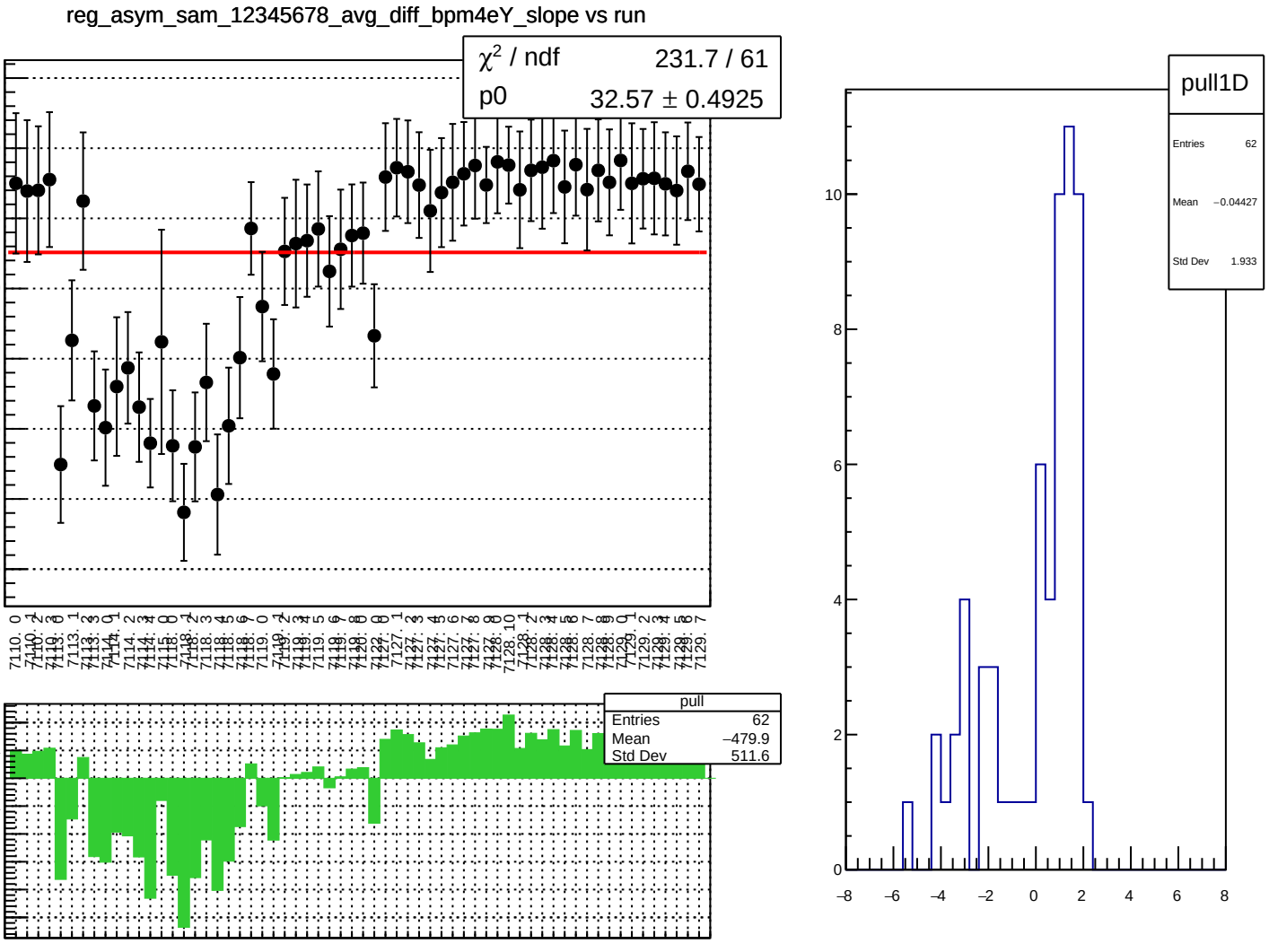

pull1D
Entries 62
Mean 0.05063
Std Dev 0.9596

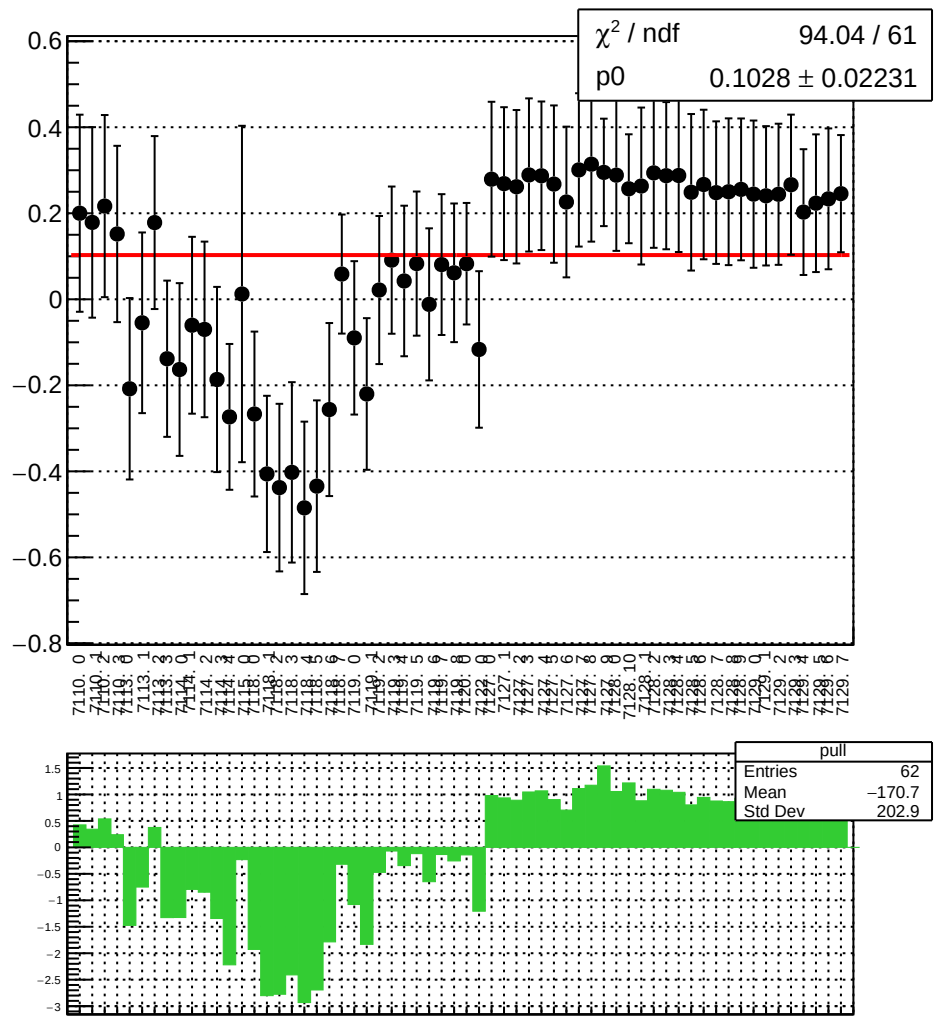

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 901 / 61
p0 −16.29 ± 0.5476
pull
Entries 62
Mean 168.4
Std Dev 135.6
pull1D
Entries 62
Mean 0.803
Std Dev 3.116

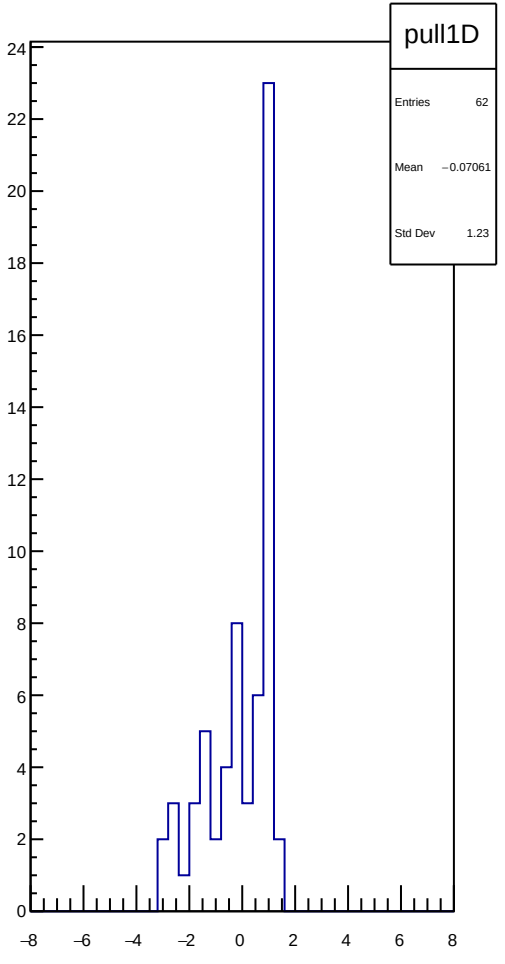

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 285.5 / 61
p0 2.115 ± 0.4659
pull
Entries 62
Mean −596.3
Std Dev 627.9

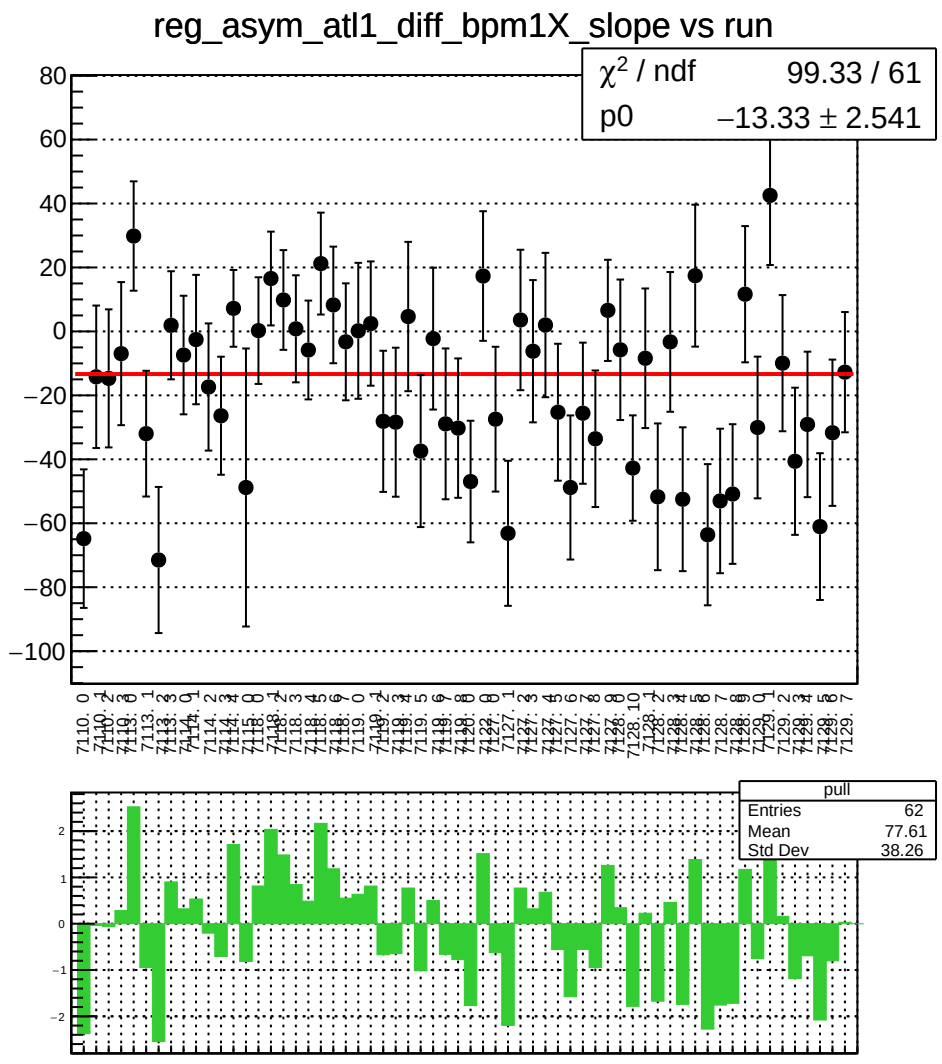

pull1D
Entries 62
Mean 0.03796
Std Dev 2.145

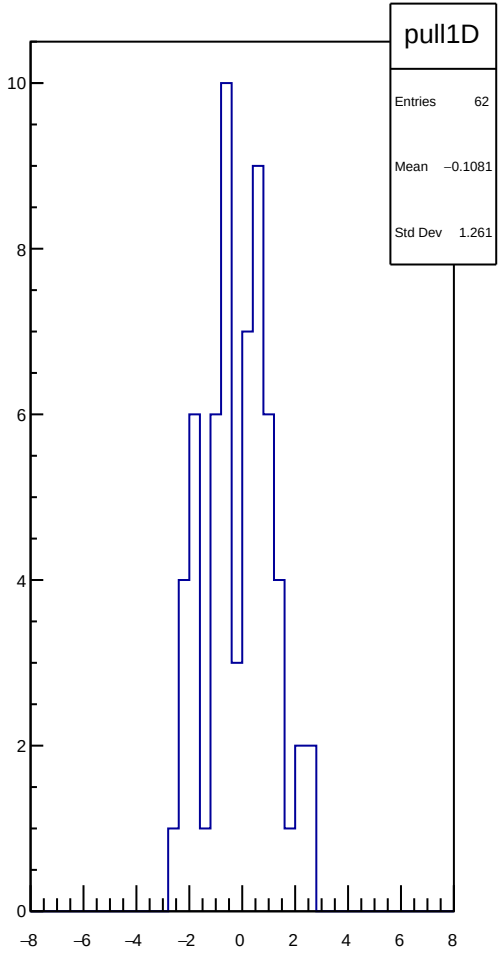

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 551.3 / 61
p0 −35.93 ± 0.544
pull
Entries 62
Mean 101.4
Std Dev 61.53
pull1D
Entries 62
Mean −0.4346
Std Dev 2.678

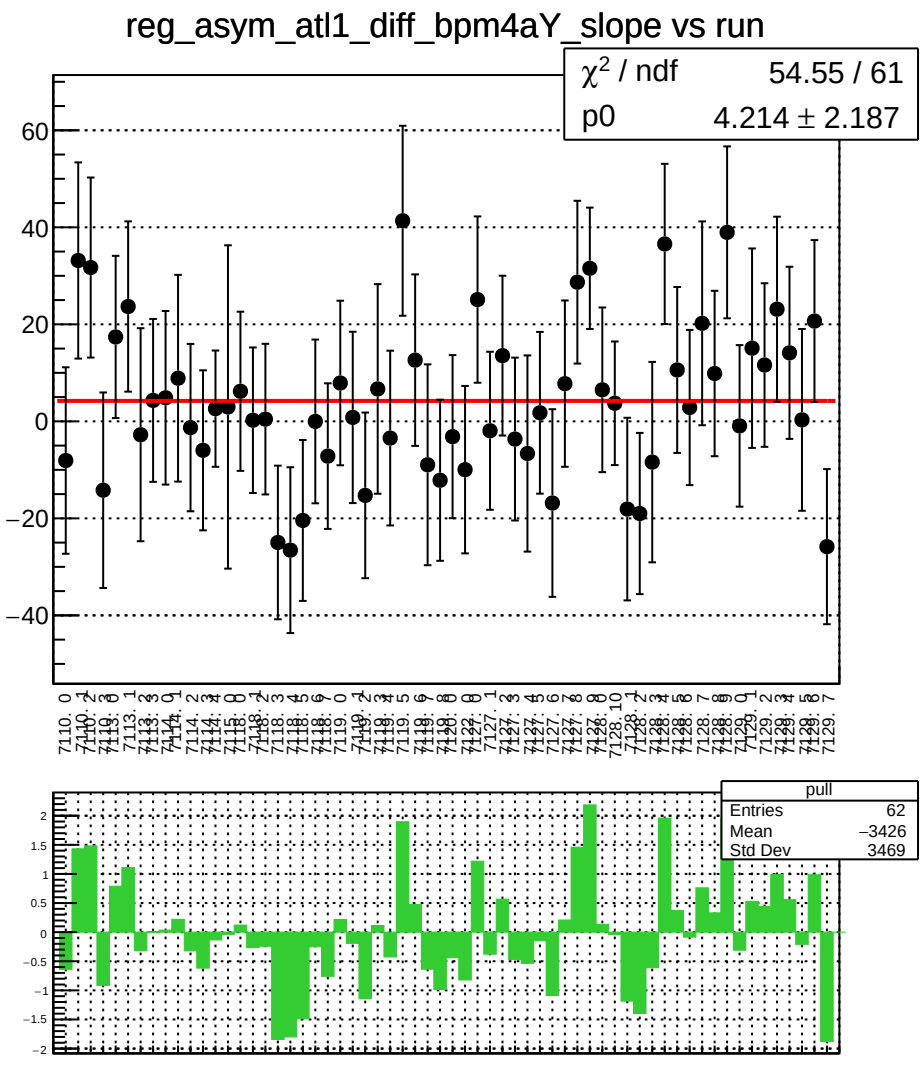

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 231.7 / 61
p0 32.57 ± 0.4925
pull
Entries 62
Mean −479.9
Std Dev 511.6
pull1D
Entries 62
Mean −0.04427
Std Dev 1.933

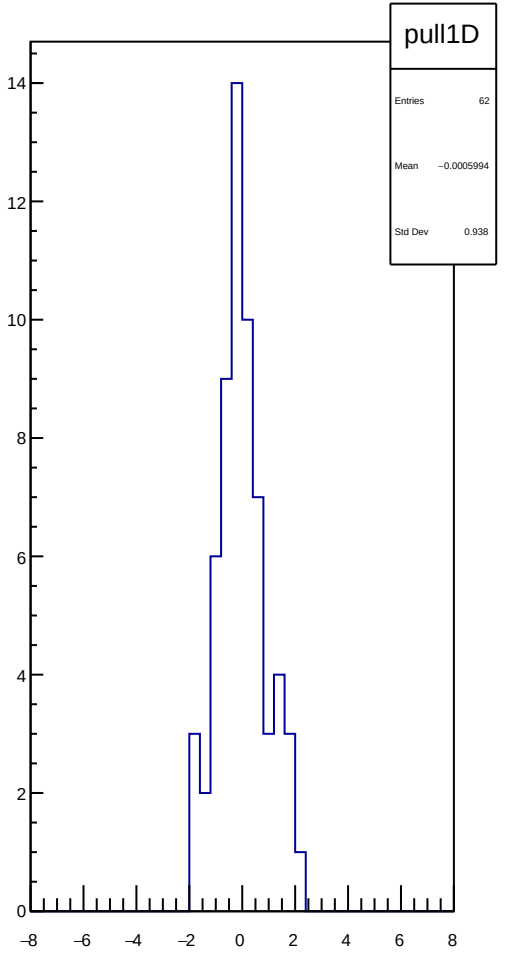

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 94.04 / 61
p0 0.1028 ± 0.02231
pull
Entries 62
Mean −170.7
Std Dev 202.9

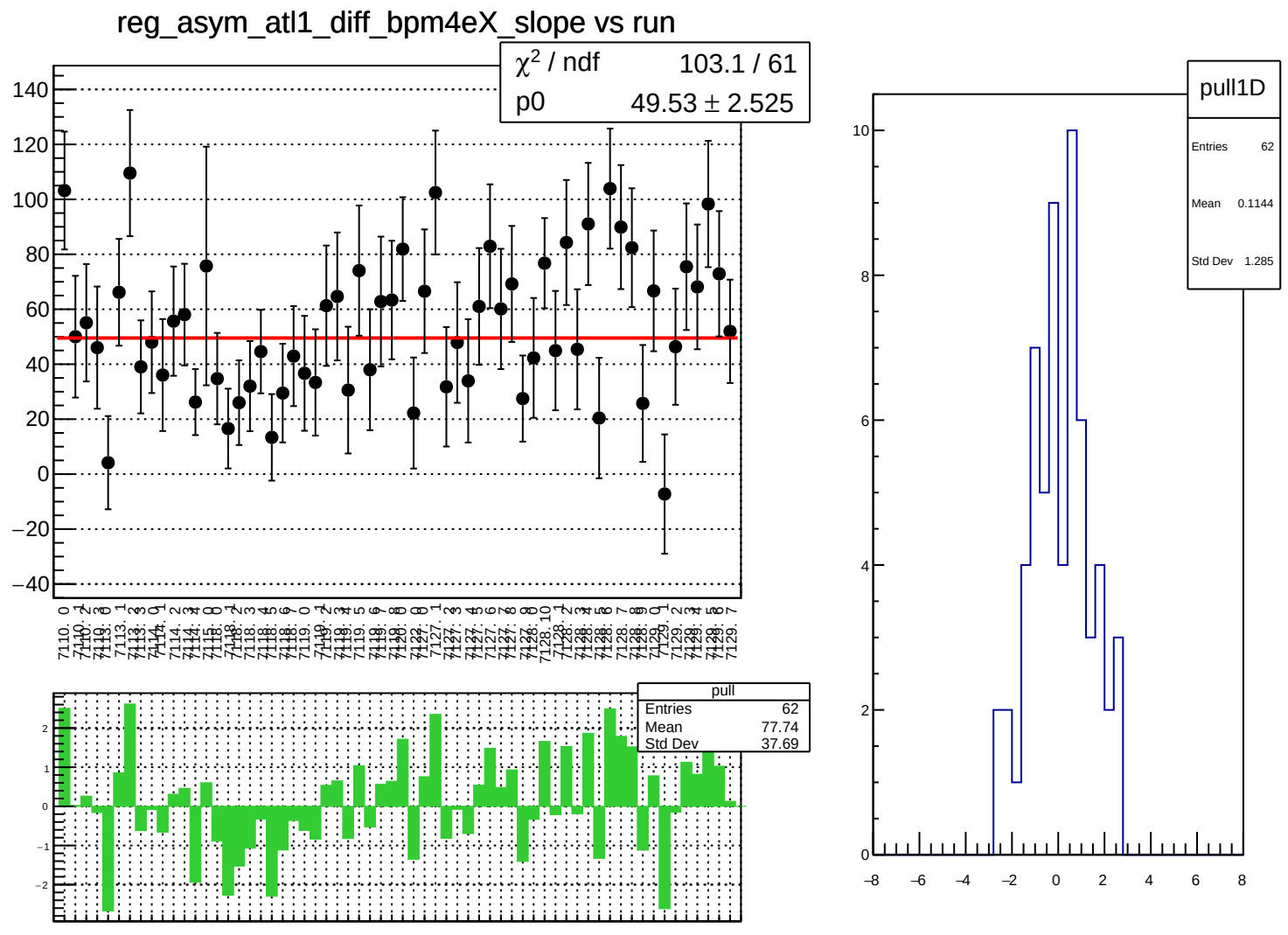

pull1D
Entries 62
Mean −0.07061
Std Dev 1.23

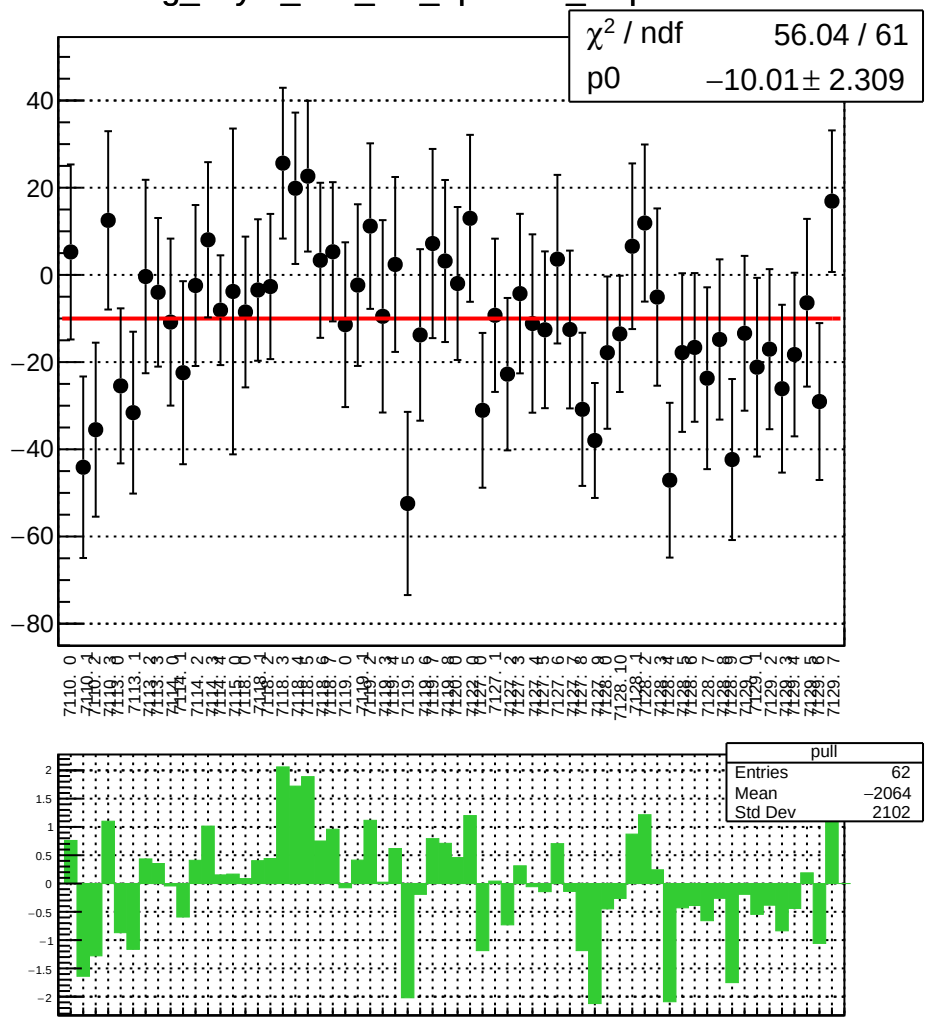

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 99.33 / 61
p0 −13.33 ± 2.541
pull
Entries 62
Mean 77.61
Std Dev 38.26

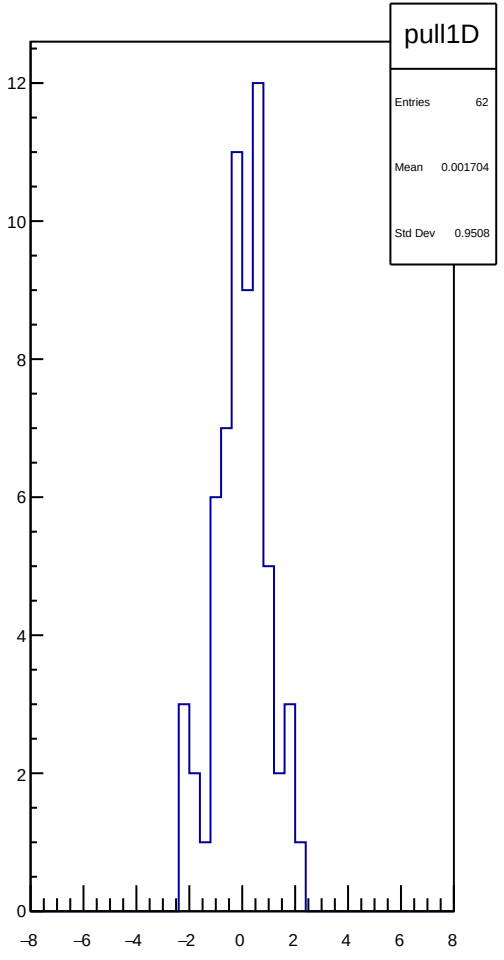

pull1D
Entries 62
Mean −0.1081
Std Dev 1.261

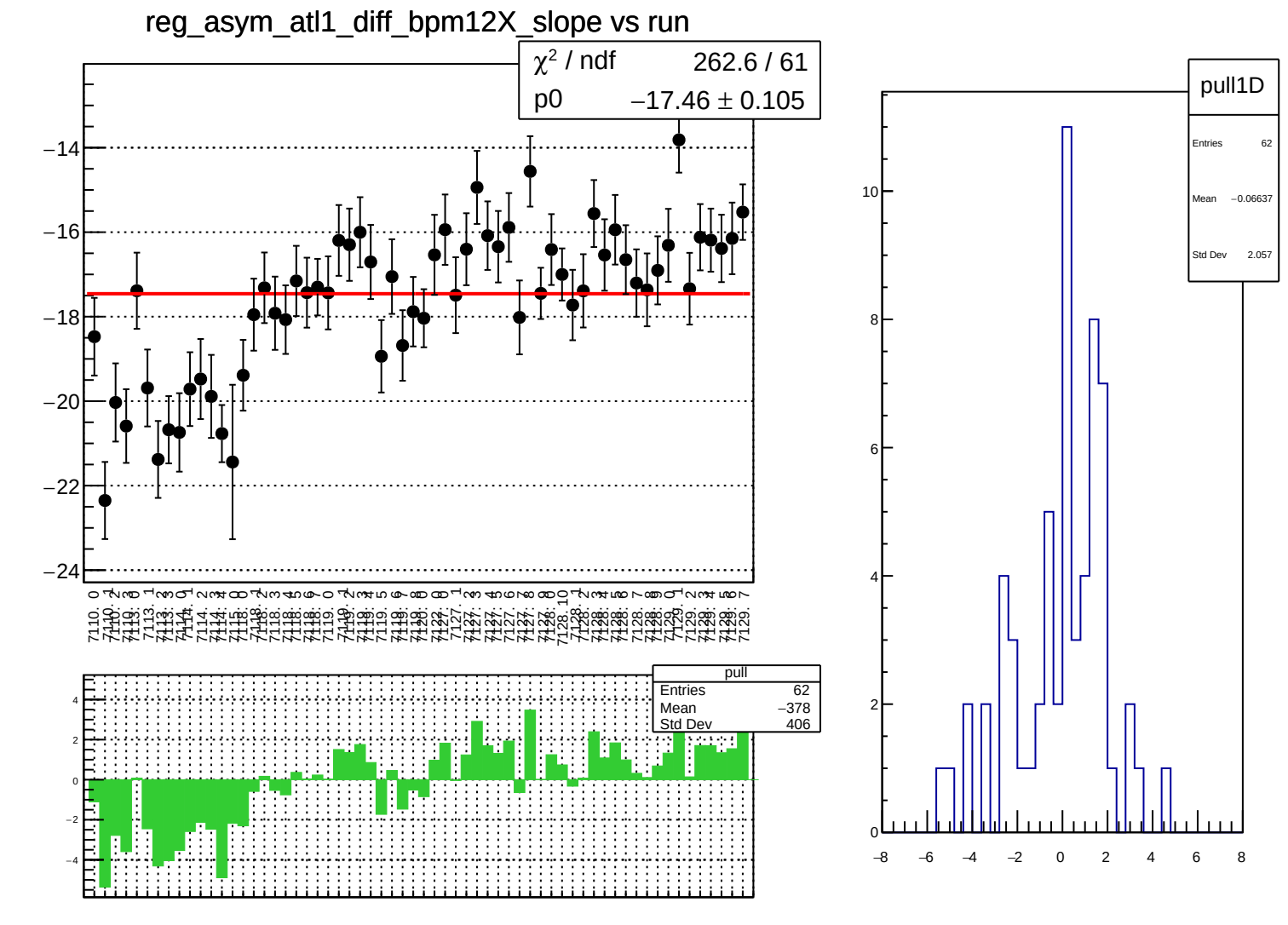

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 54.55 / 61
p0 4.214 ± 2.187
pull
Entries 62
Mean −3426
Std Dev 3469

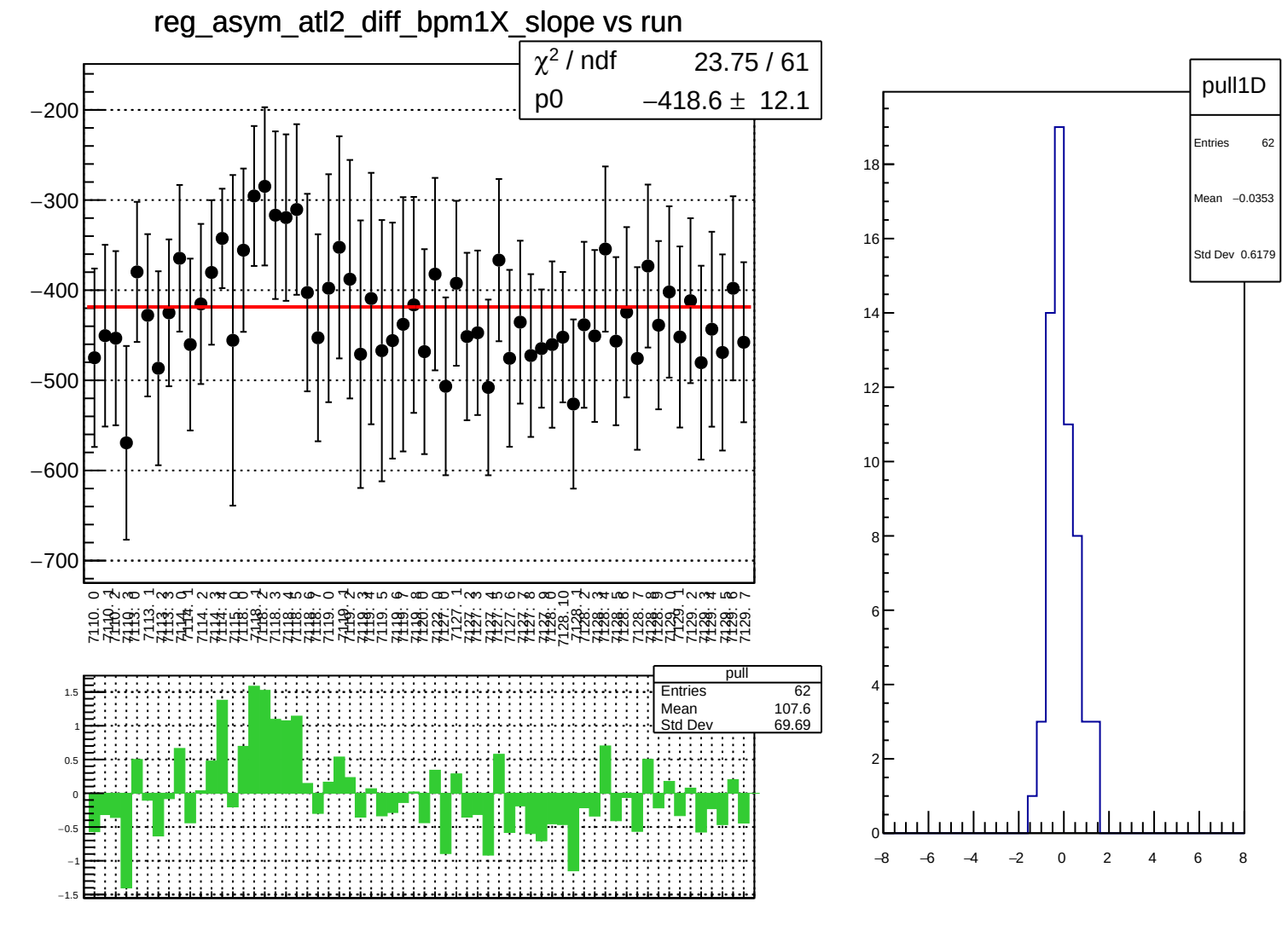

pull1D
Entries 62
Mean −0.0005994
Std Dev 0.938

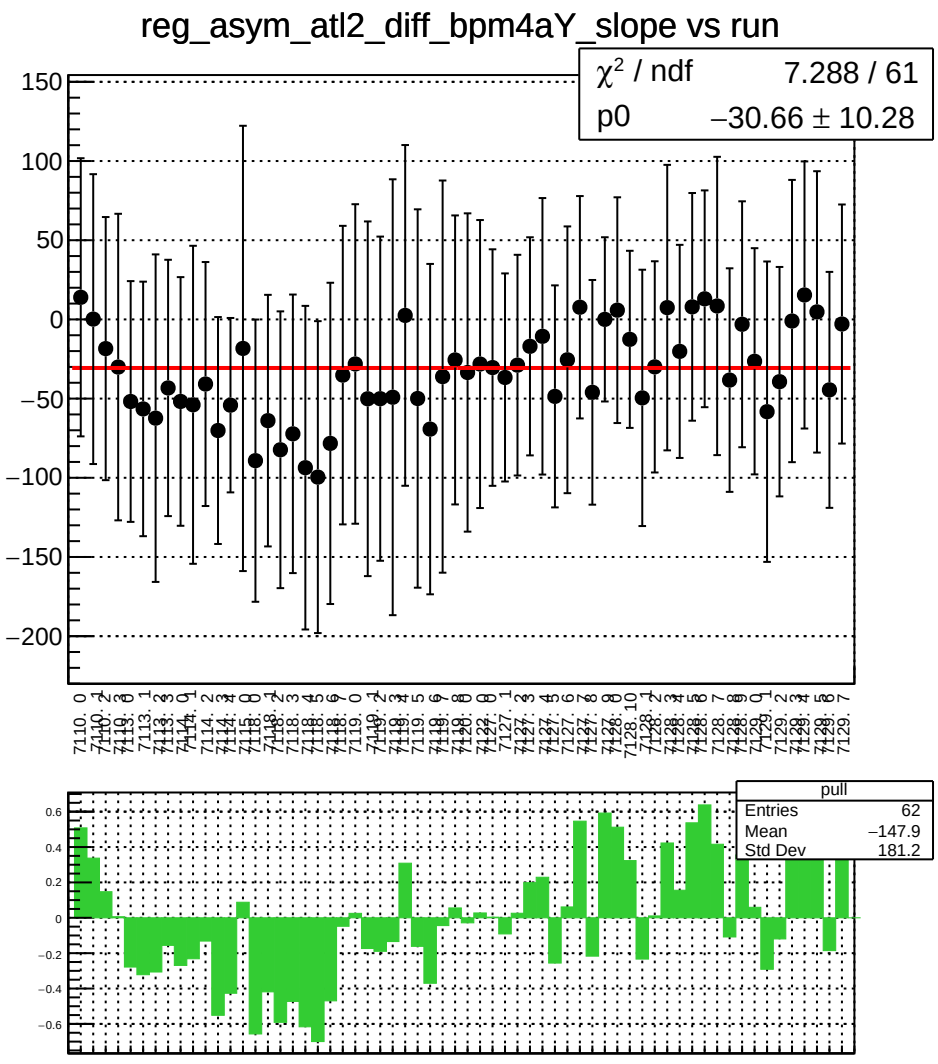

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 103.1 / 61
p0 49.53 ± 2.525
pull
Entries 62
Mean 77.74
Std Dev 37.69
pull1D
Entries 62
Mean 0.1144
Std Dev 1.285

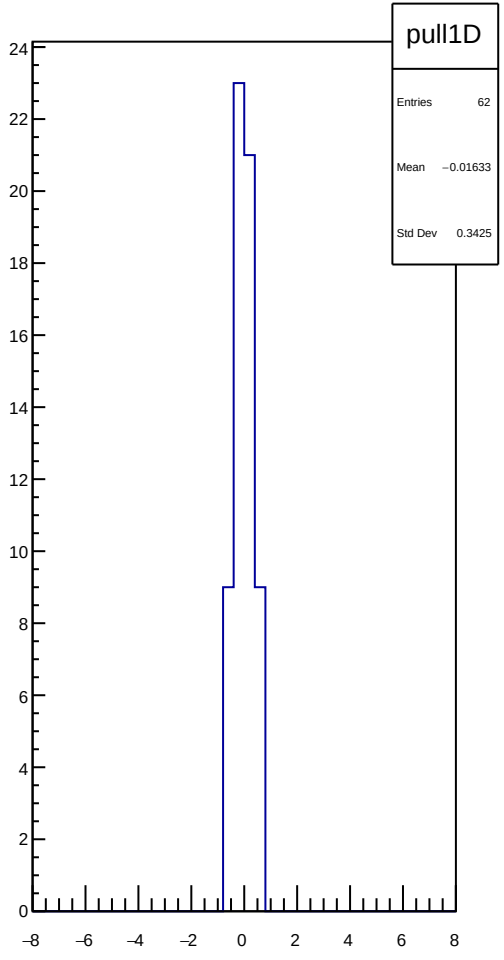

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 56.04 / 61
p0 −10.01± 2.309
pull
Entries 62
Mean −2064
Std Dev 2102

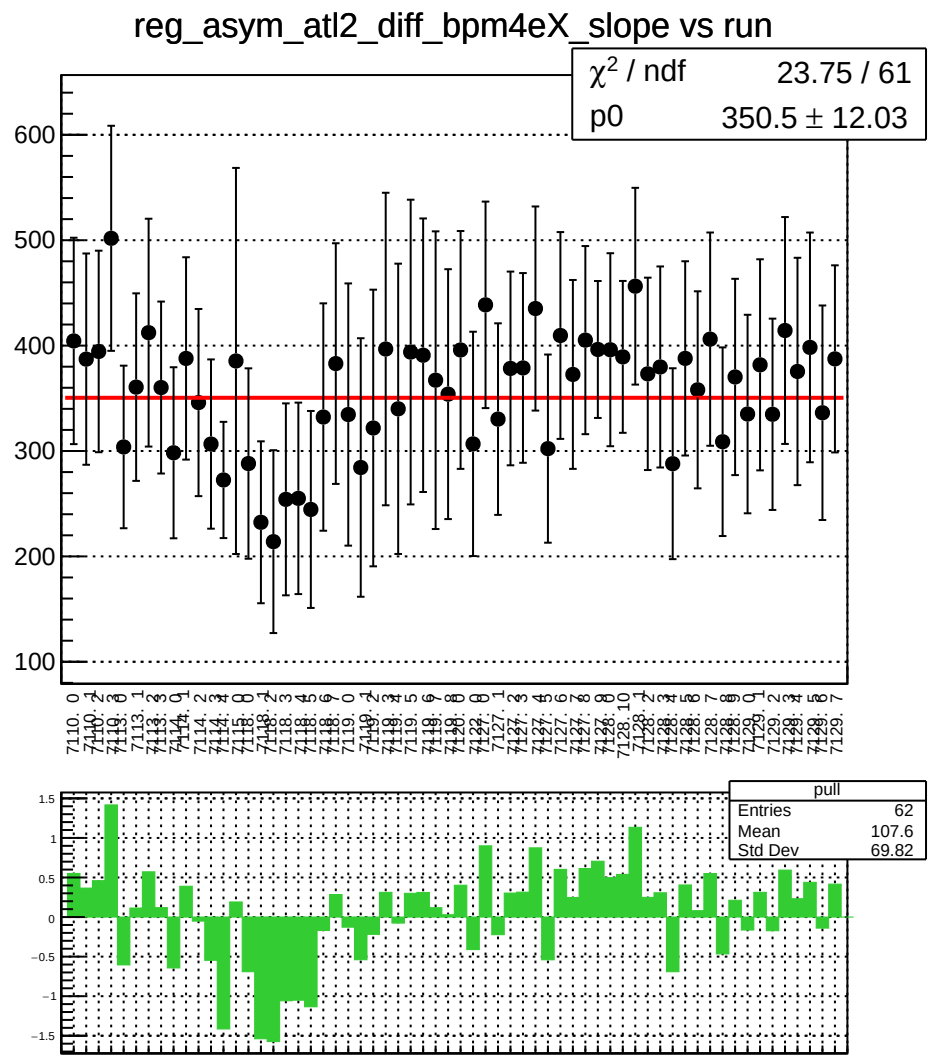

pull1D
Entries 62
Mean 0.001704
Std Dev 0.9508

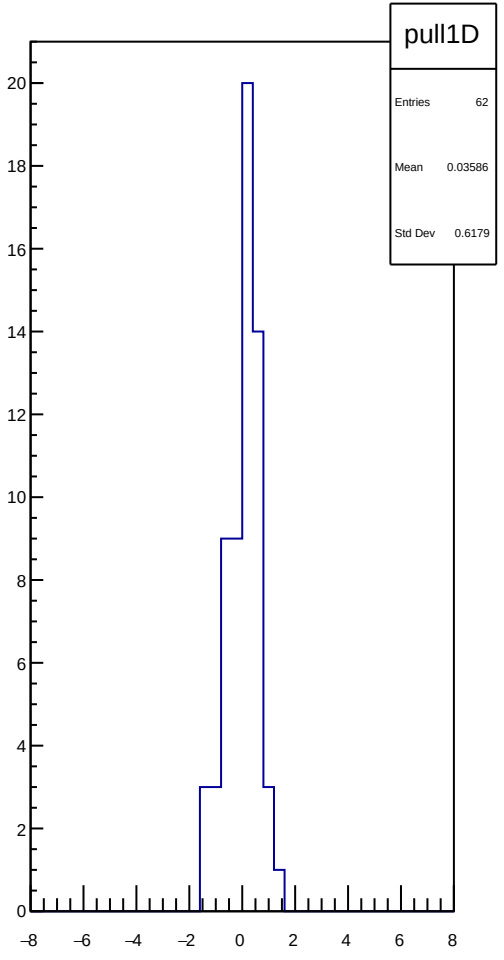

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 262.6 / 61
p0 −17.46 ± 0.105
pull
Entries 62
Mean −378
Std Dev 406
pull1D
Entries 62
Mean −0.06637
Std Dev 2.057

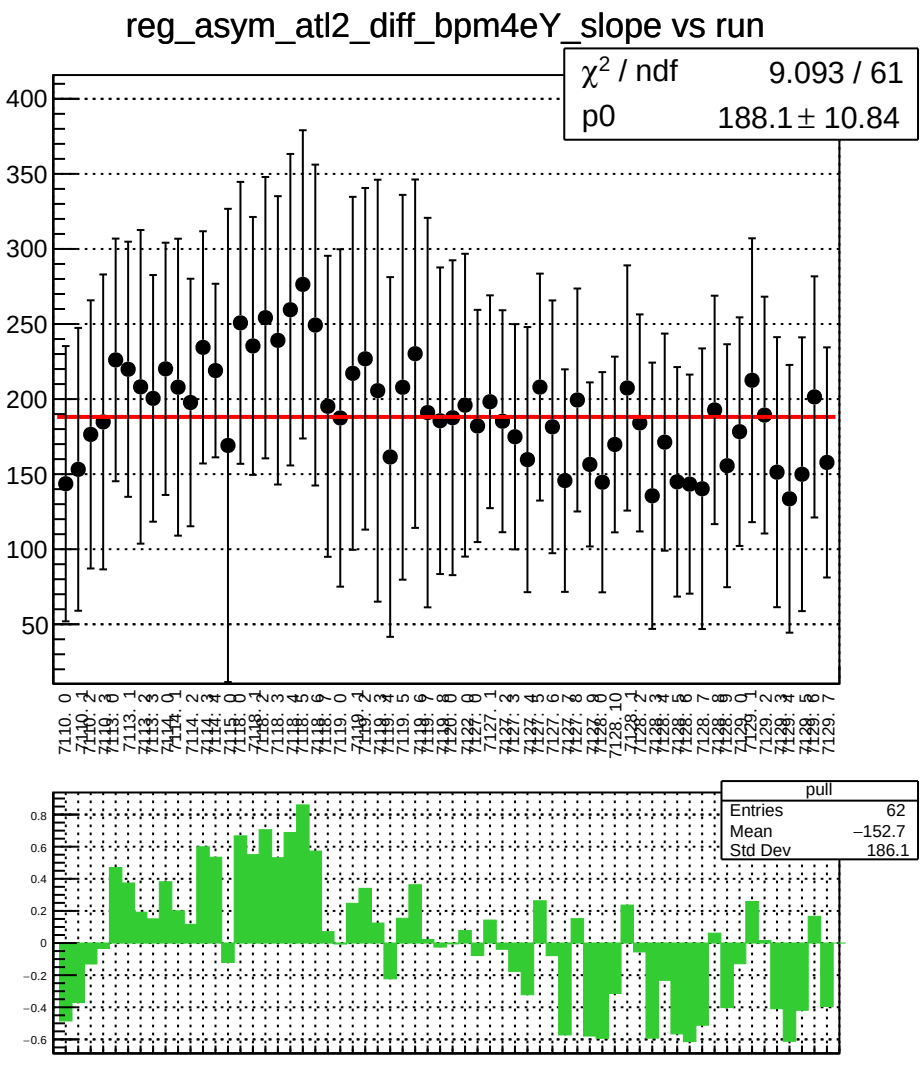

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 23.75 / 61
p0 −418.6 ± 12.1
pull
Entries 62
Mean 107.6
Std Dev 69.69
pull1D
Entries 62
Mean −0.0353
Std Dev 0.6179

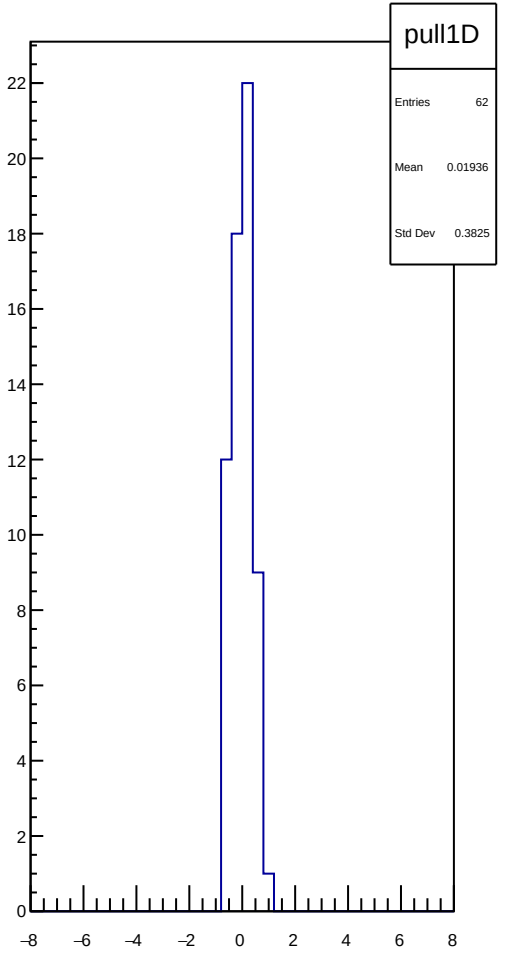

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 7.288 / 61
p0 −30.66 ± 10.28
pull
Entries 62
Mean −147.9
Std Dev 181.2

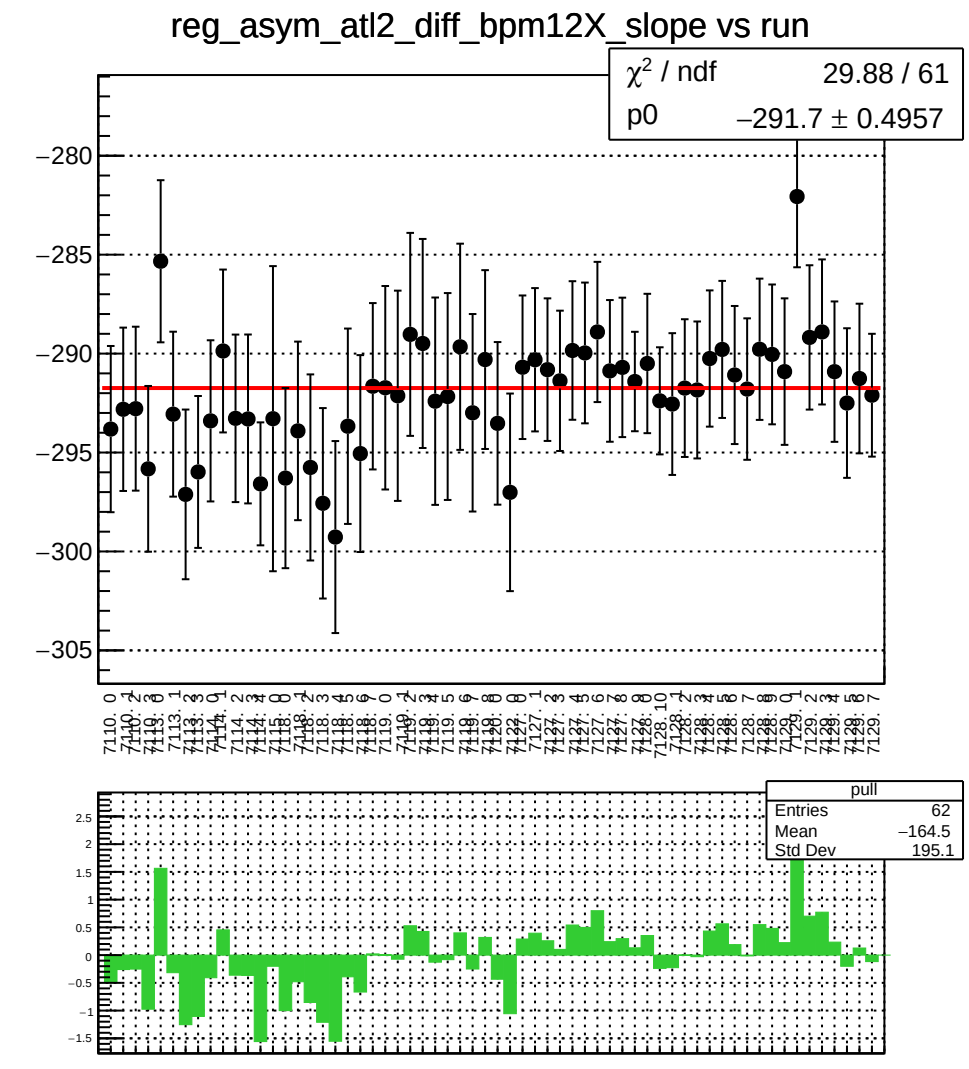

pull1D
Entries 62
Mean −0.01633
Std Dev 0.3425

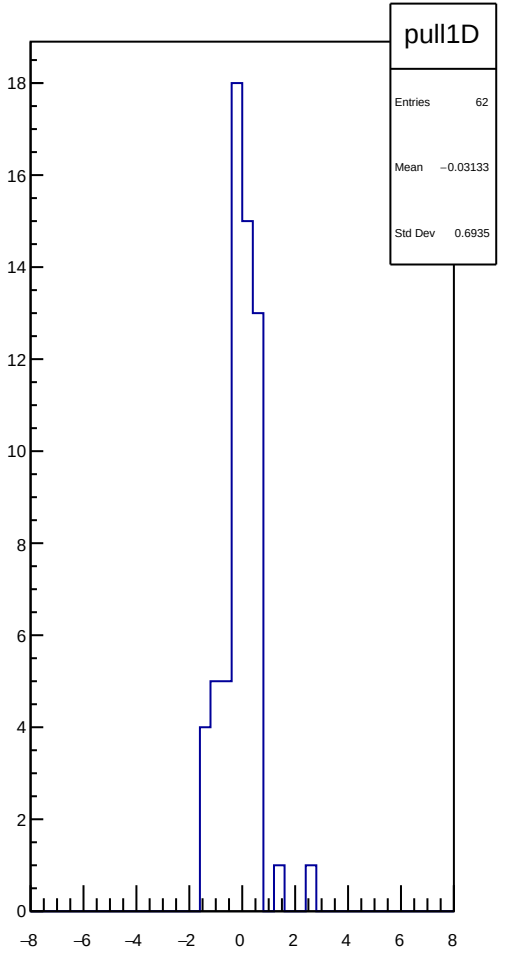

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 23.75 / 61
p0 350.5 ± 12.03
pull
Entries 62
Mean 107.6
Std Dev 69.82

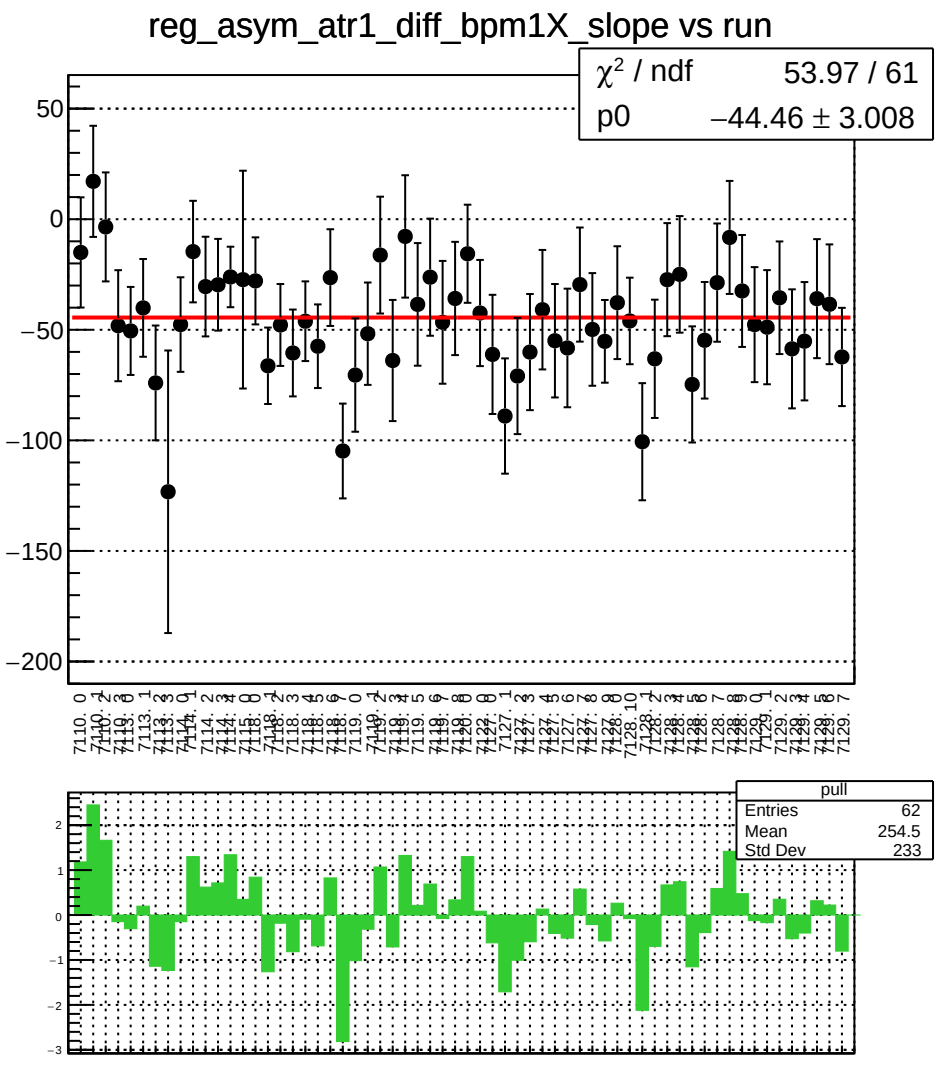

pull1D
Entries 62
Mean 0.03586
Std Dev 0.6179

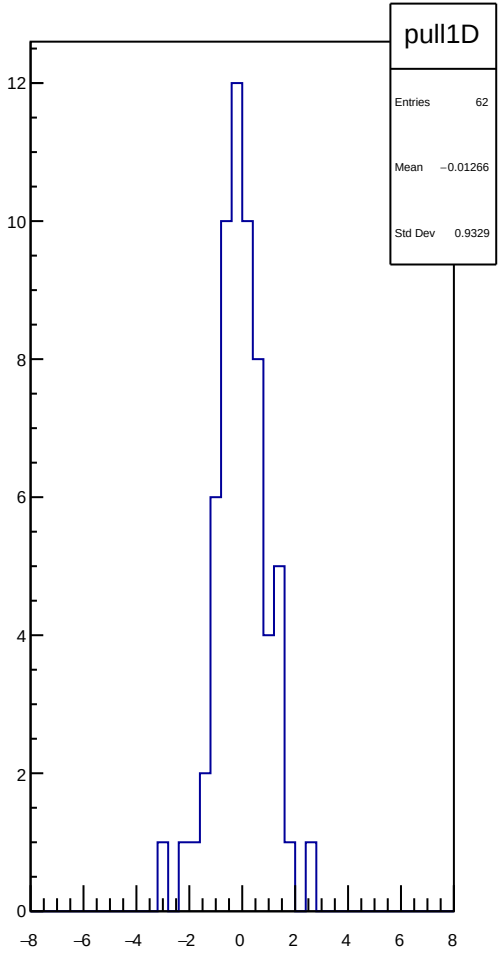

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 9.093 / 61
p0 188.1 ± 10.84
pull
Entries 62
Mean −152.7
Std Dev 186.1

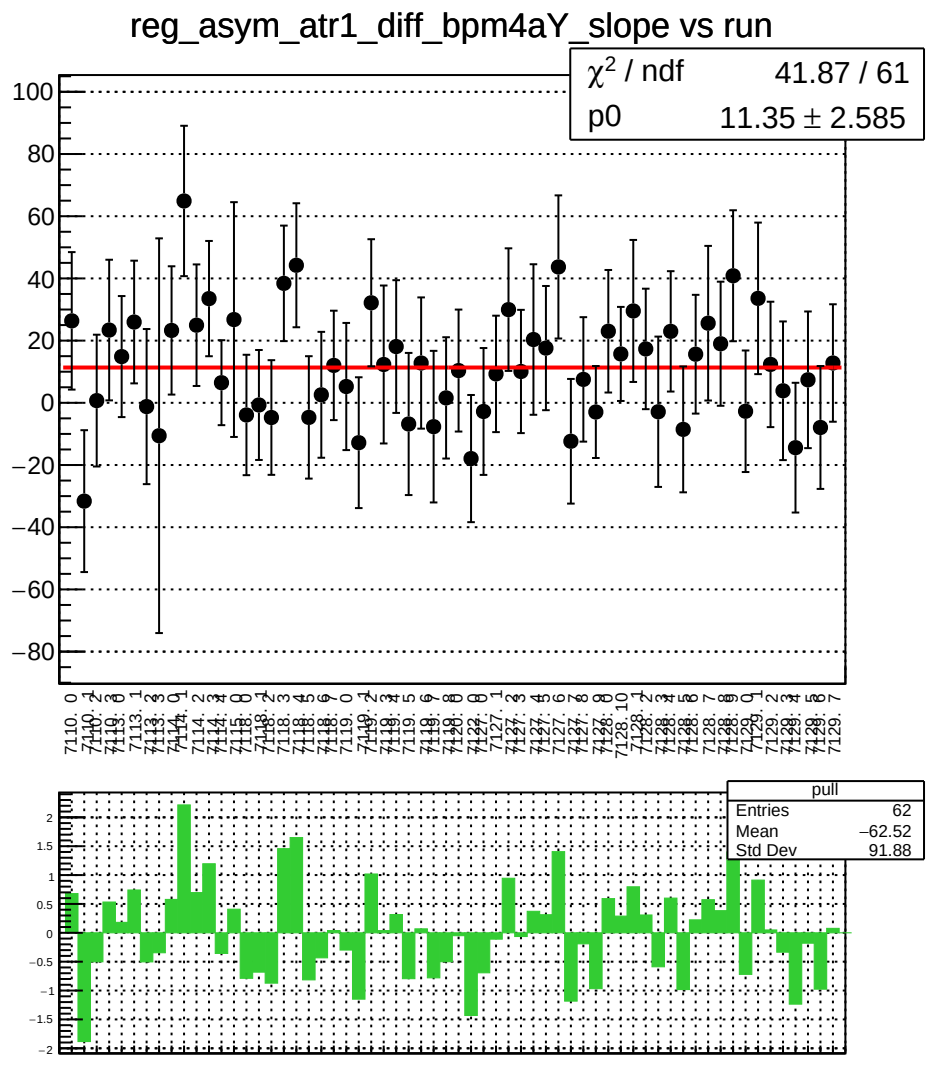

pull1D
Entries 62
Mean 0.01936
Std Dev 0.3825

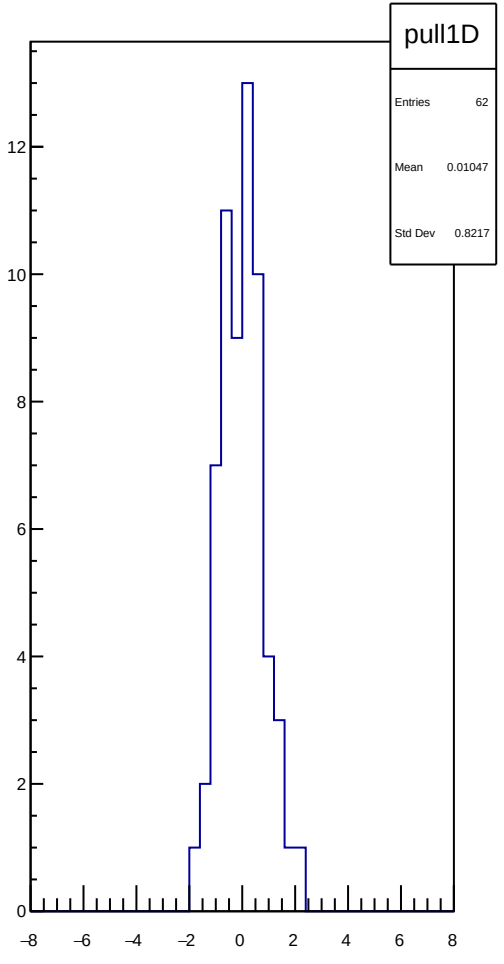

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 29.88 / 61
p0 −291.7 ± 0.4957
pull
Entries 62
Mean −164.5
Std Dev 195.1

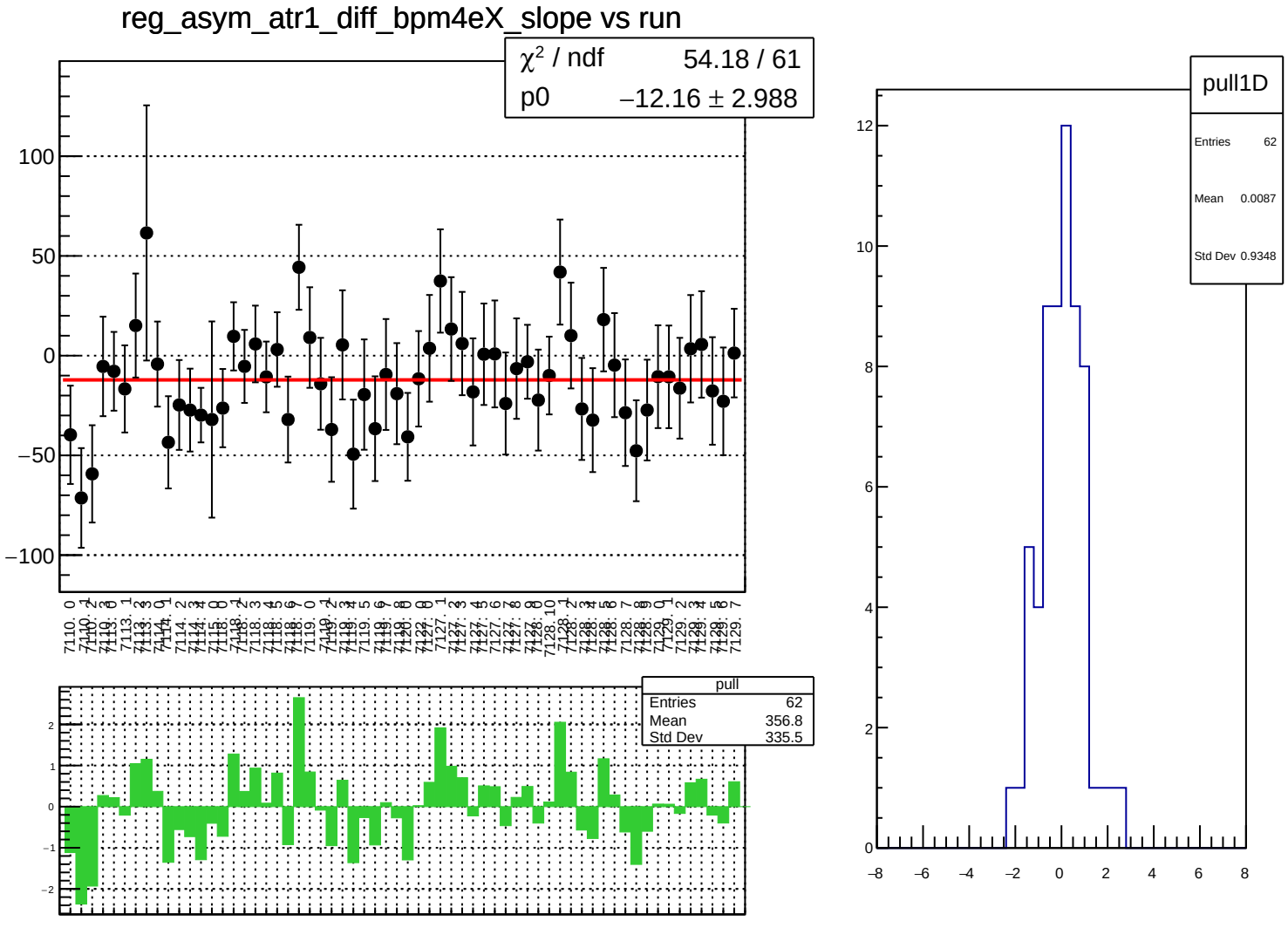

pull1D
Entries 62
Mean −0.03133
Std Dev 0.6935

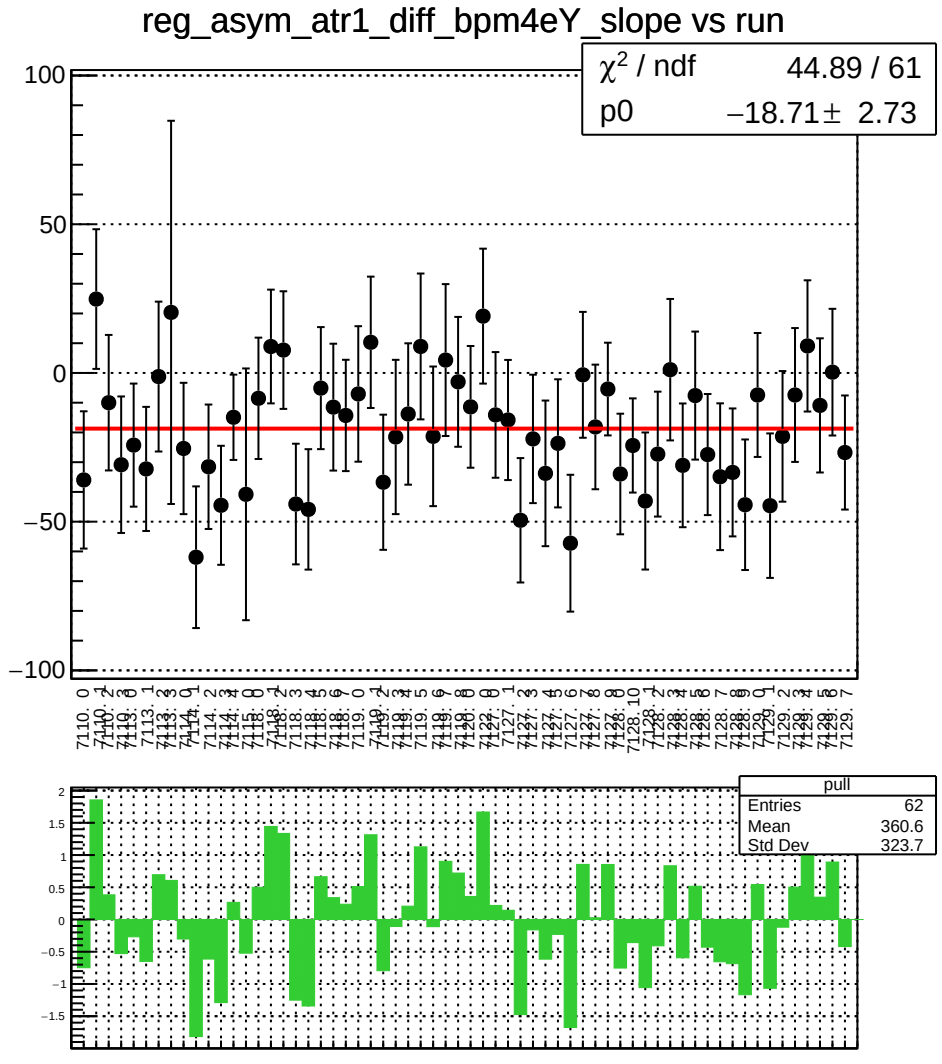

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 53.97 / 61
p0 −44.46 ± 3.008
pull
Entries 62
Mean 254.5
Std Dev 233

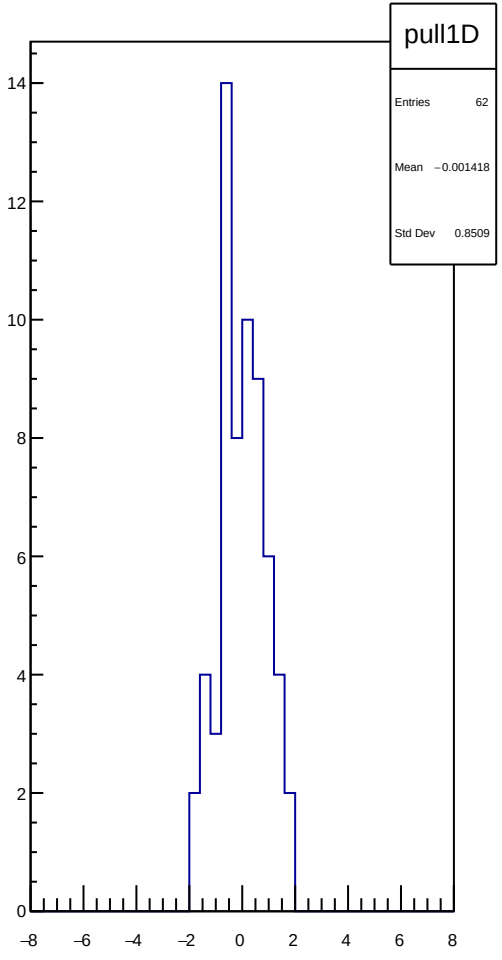

pull1D
Entries 62
Mean −0.01266
Std Dev 0.9329

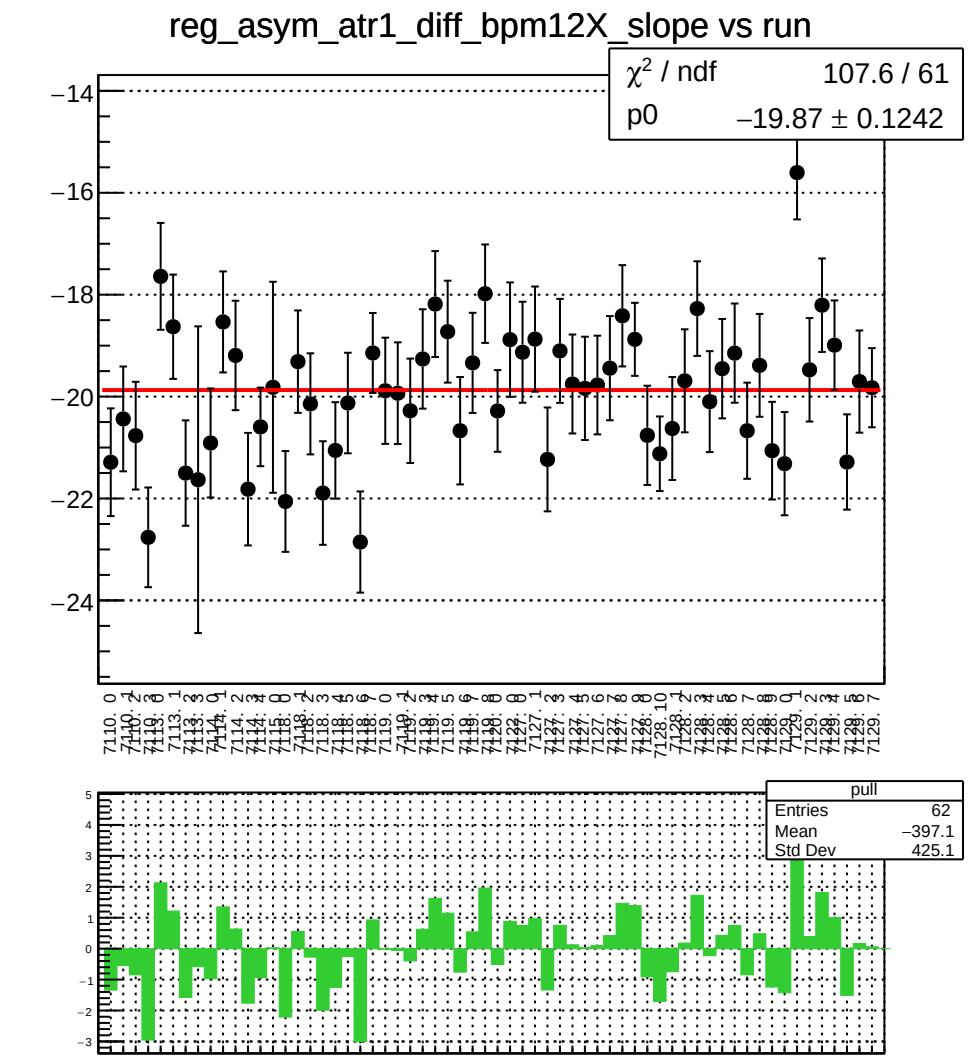

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 41.87 / 61
p0 11.35 ± 2.585
pull
Entries 62
Mean −62.52
Std Dev 91.88

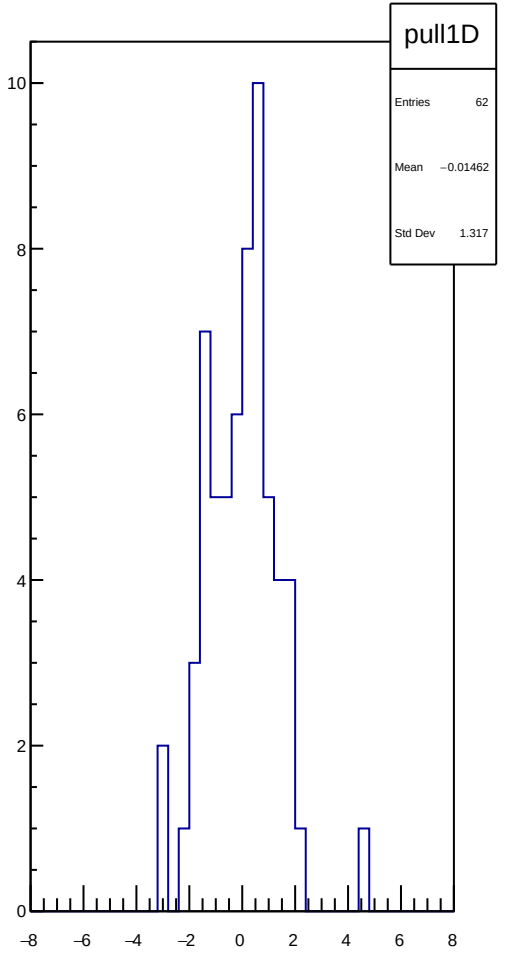

pull1D
Entries 62
Mean 0.01047
Std Dev 0.8217

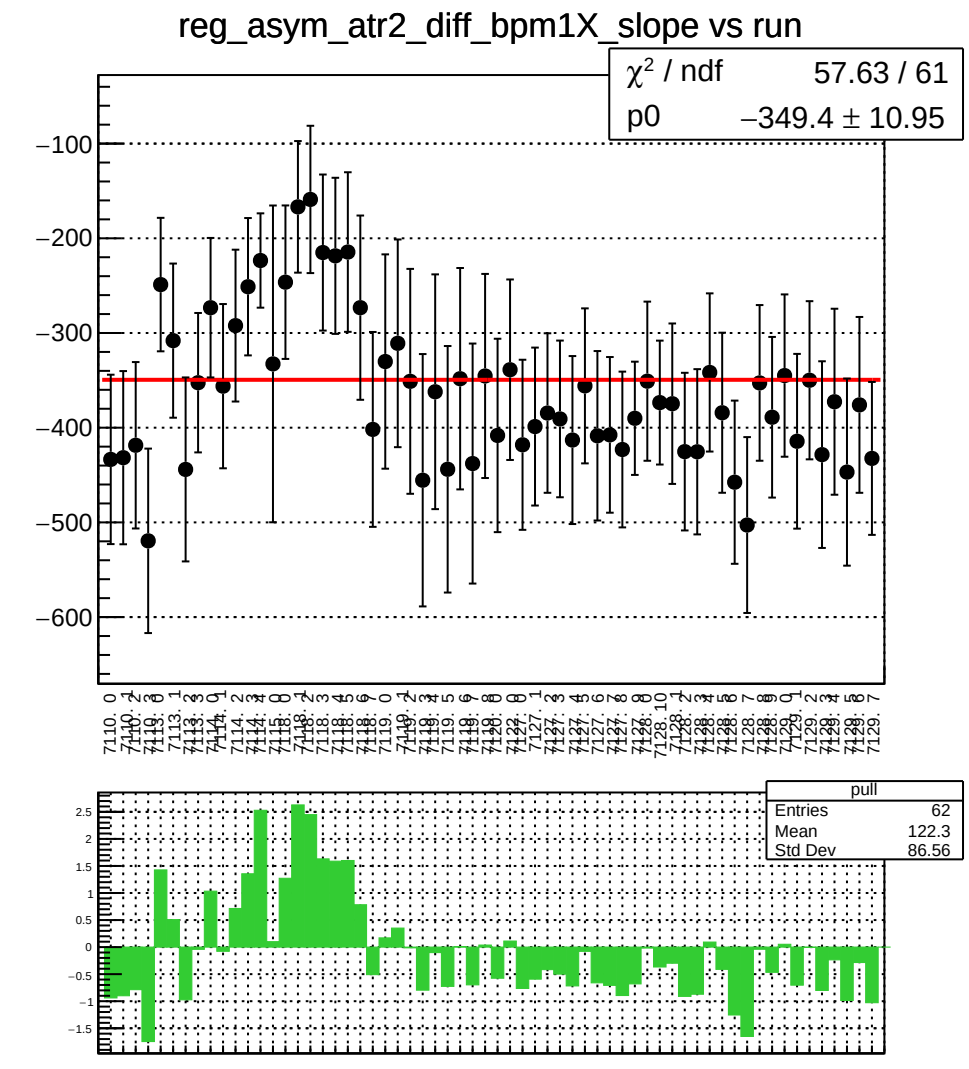

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 54.18 / 61
p0 −12.16 ± 2.988
pull
Entries 62
Mean 356.8
Std Dev 335.5
pull1D
Entries 62
Mean 0.0087
Std Dev 0.9348

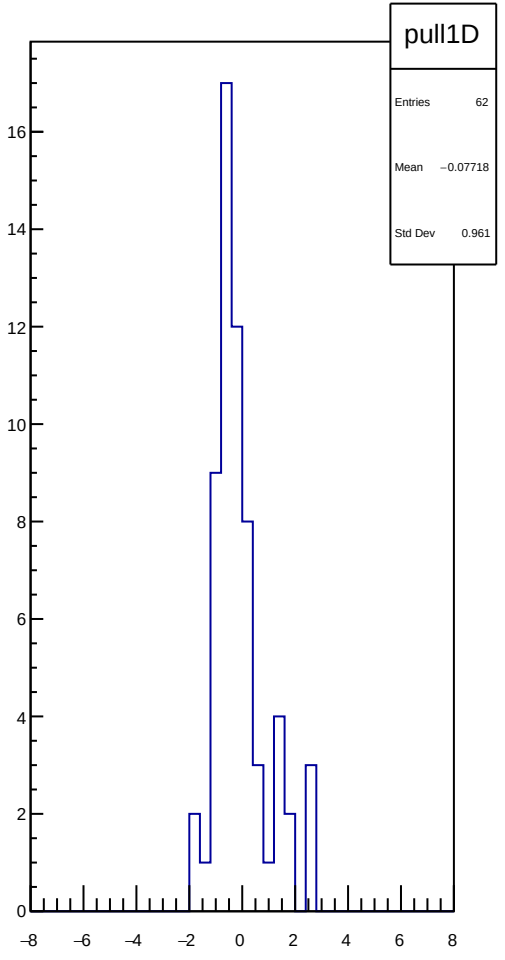

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 44.89 / 61
p0 −18.71± 2.73
pull
Entries 62
Mean 360.6
Std Dev 323.7

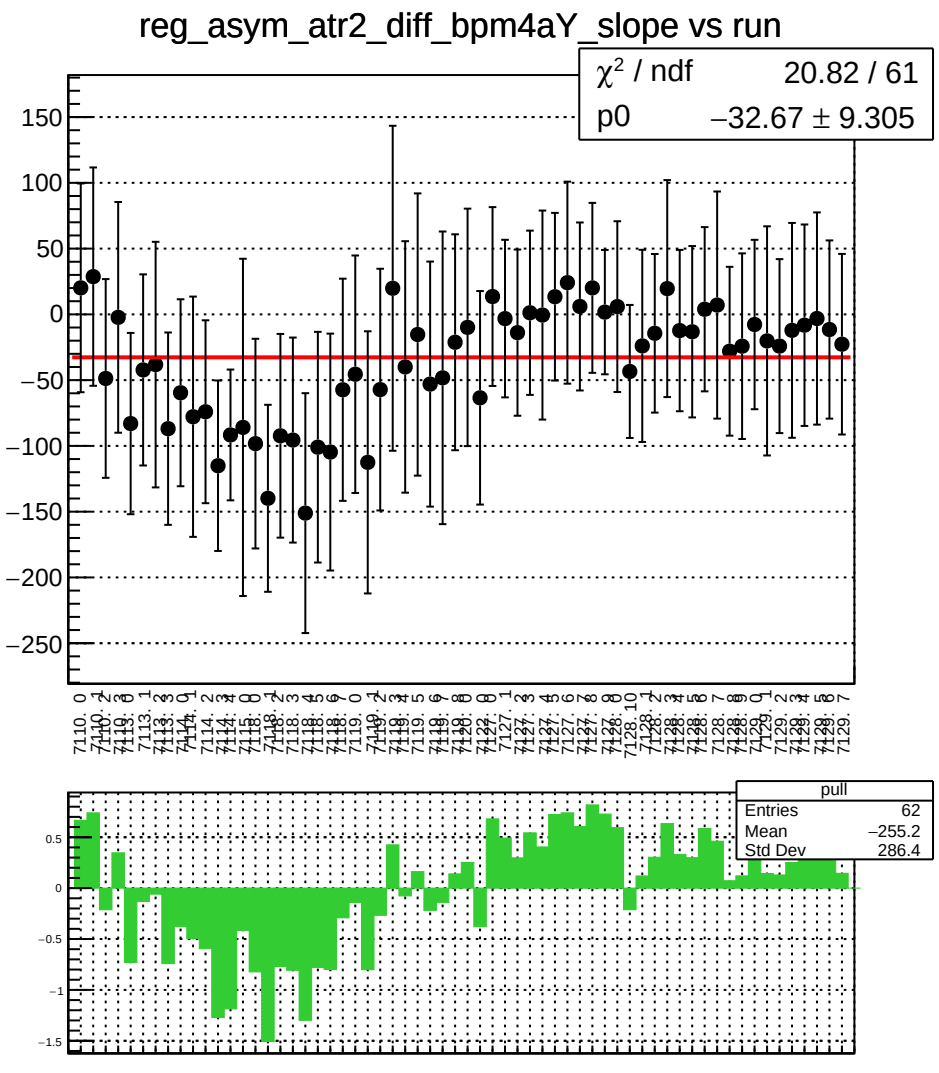

pull1D
Entries 62
Mean −0.001418
Std Dev 0.8509

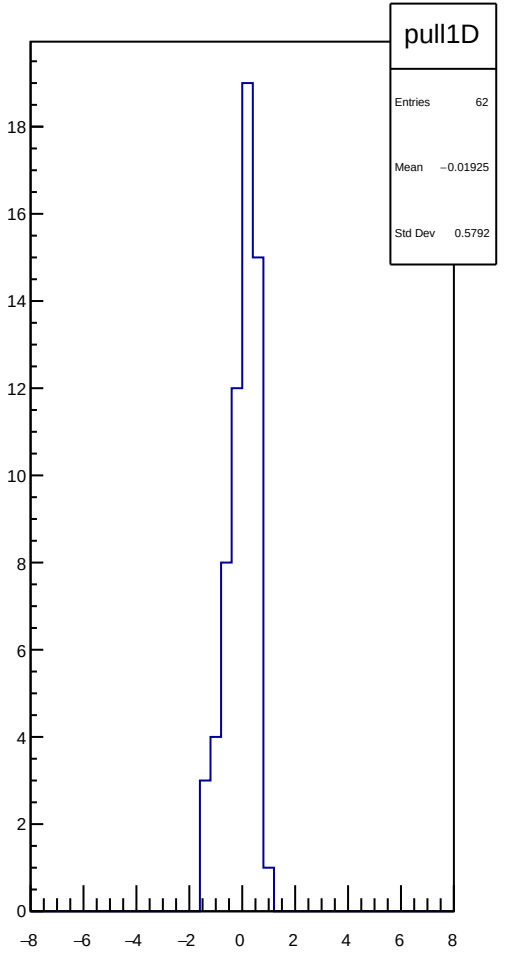

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 107.6 / 61
p0 −19.87 ± 0.1242
pull
Entries 62
Mean −397.1
Std Dev 425.1

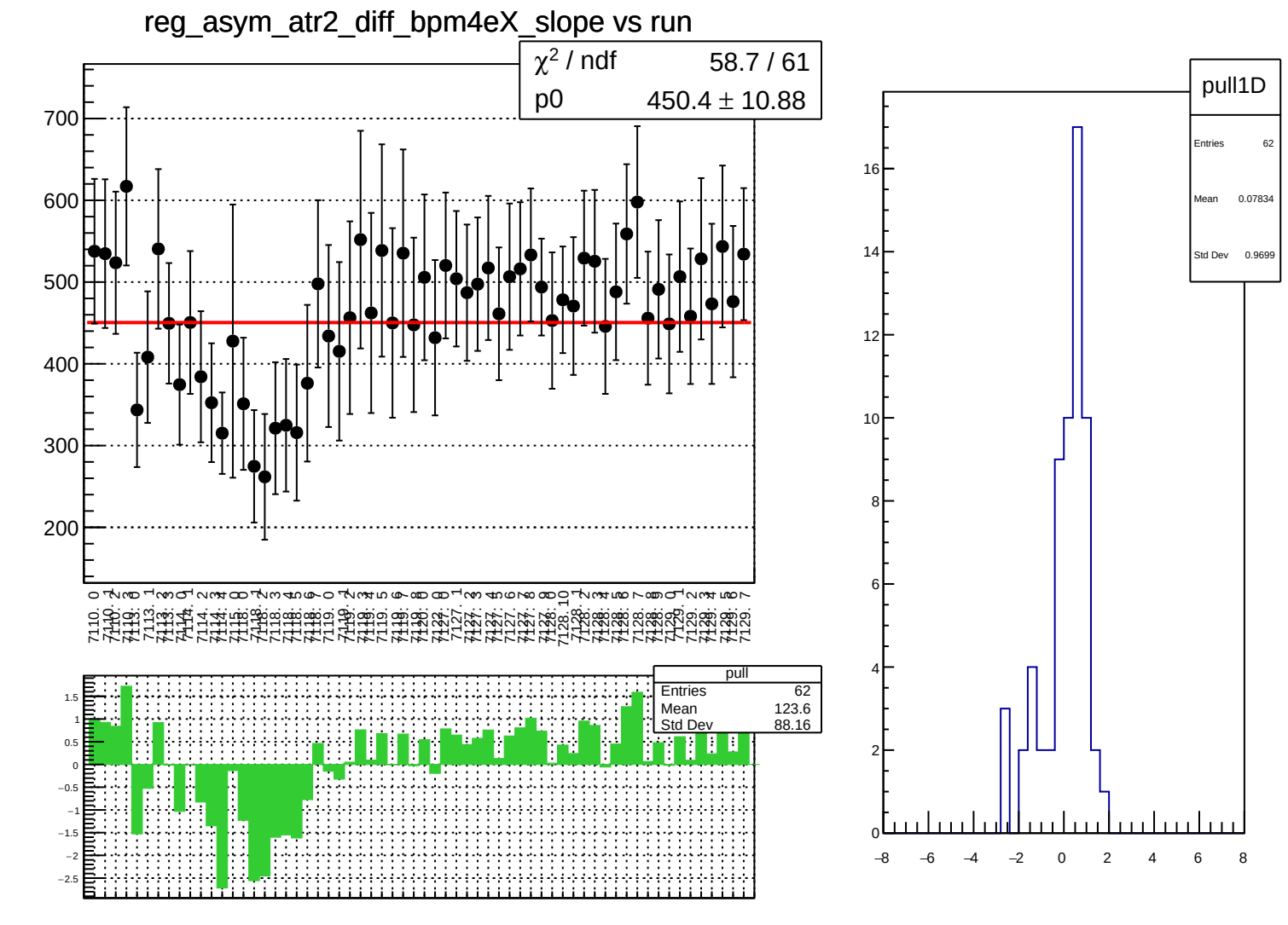

pull1D
Entries 62
Mean −0.01462
Std Dev 1.317

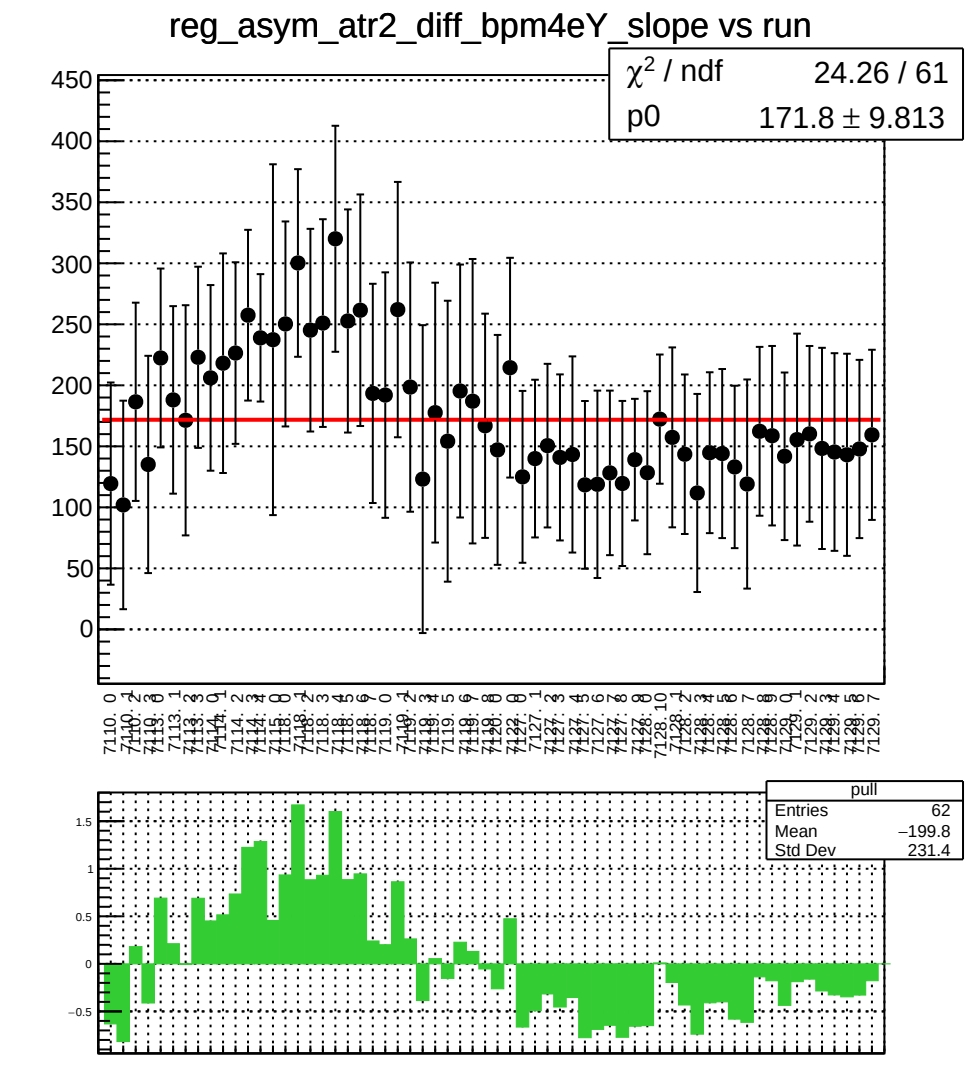

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 57.63 / 61
p0 −349.4 ± 10.95
pull
Entries 62
Mean 122.3
Std Dev 86.56

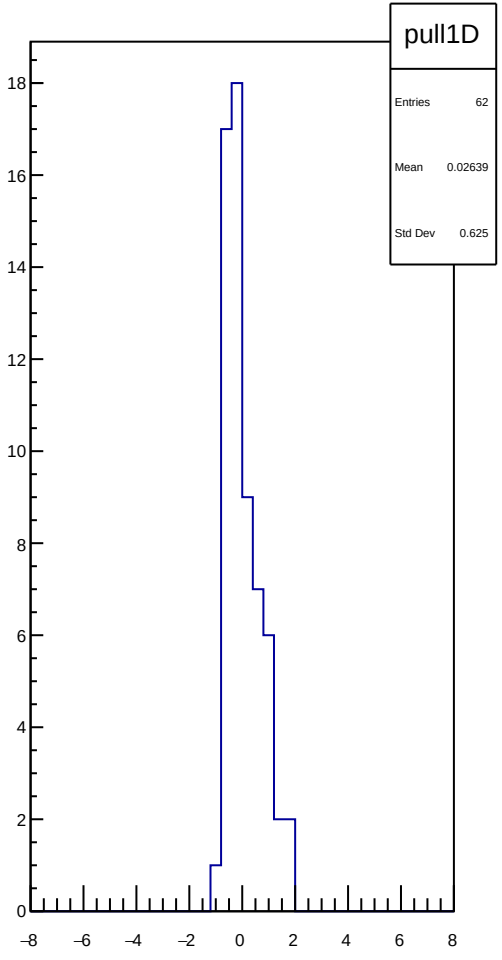

pull1D
Entries 62
Mean −0.07718
Std Dev 0.961

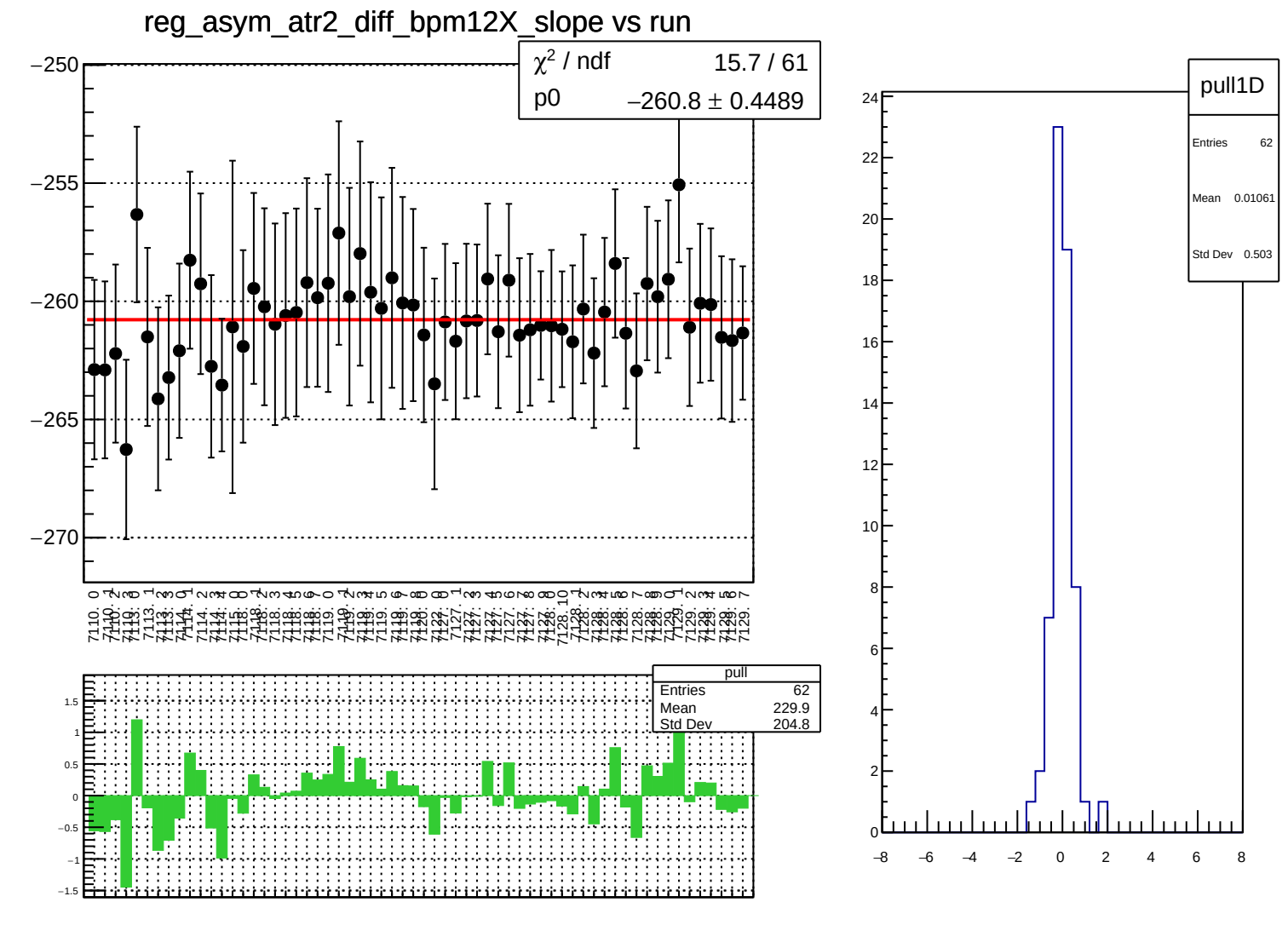

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 20.82 / 61
p0 −32.67 ± 9.305
pull
Entries 62
Mean −255.2
Std Dev 286.4

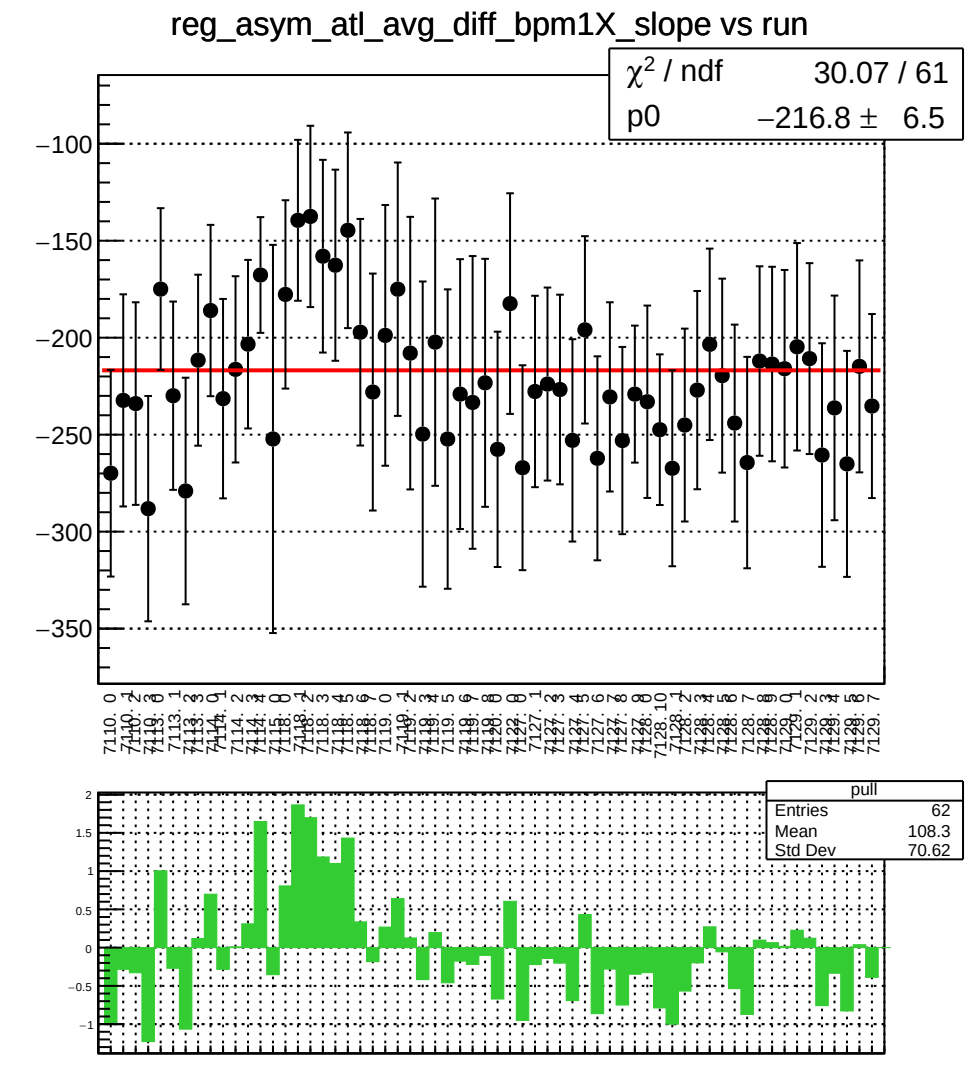

pull1D
Entries 62
Mean −0.01925
Std Dev 0.5792

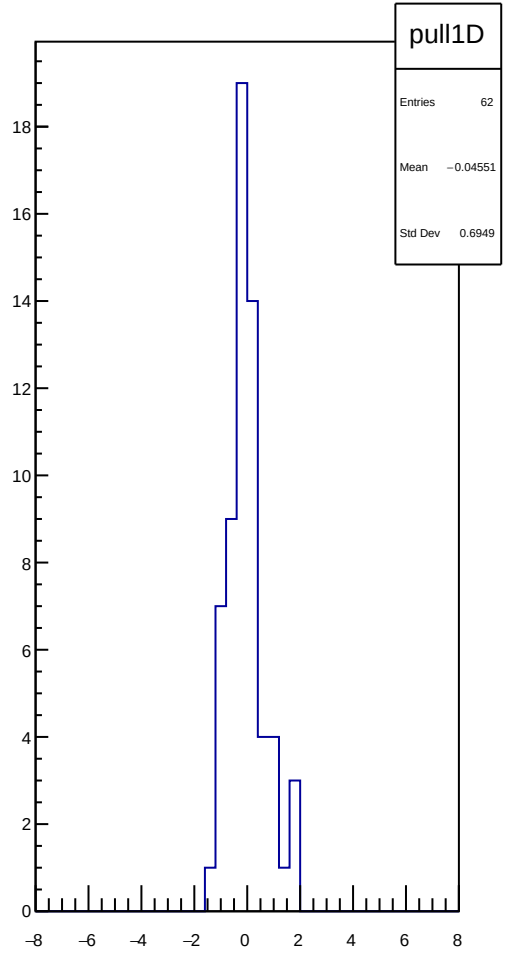

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 58.7 / 61
p0 450.4 ± 10.88
700
600
500
400
300
200
pull
Entries 62
Mean 123.6
Std Dev 88.16
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 62
Mean 0.07834
Std Dev 0.9699
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

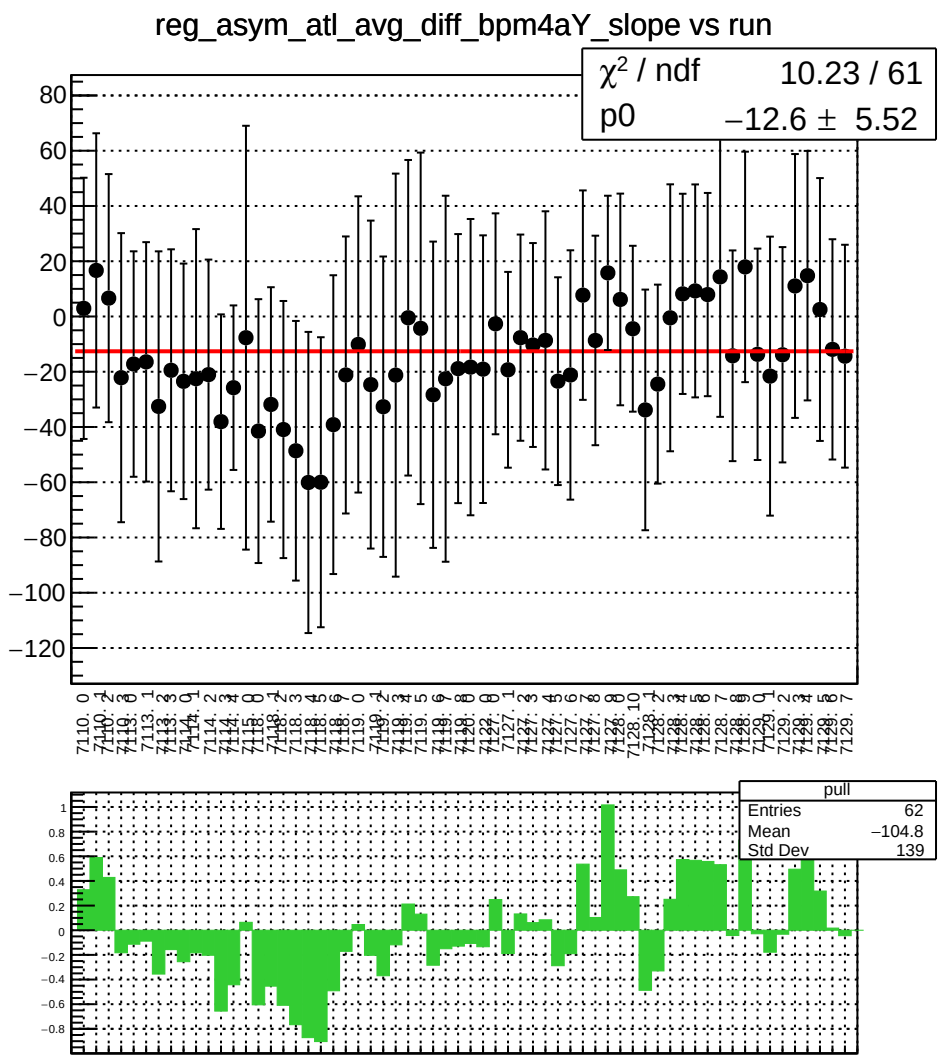

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 24.26 / 61
p0 171.8 ± 9.813
pull
Entries 62
Mean −199.8
Std Dev 231.4

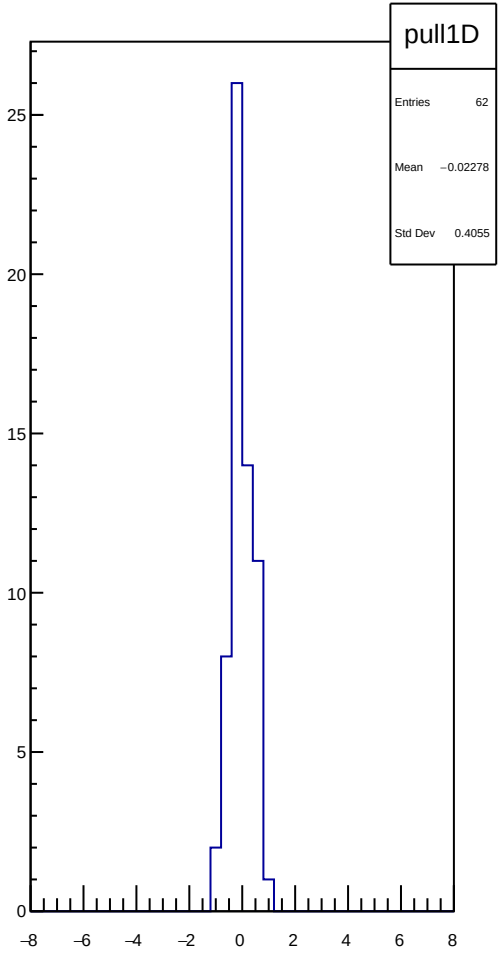

pull1D
Entries 62
Mean 0.02639
Std Dev 0.625

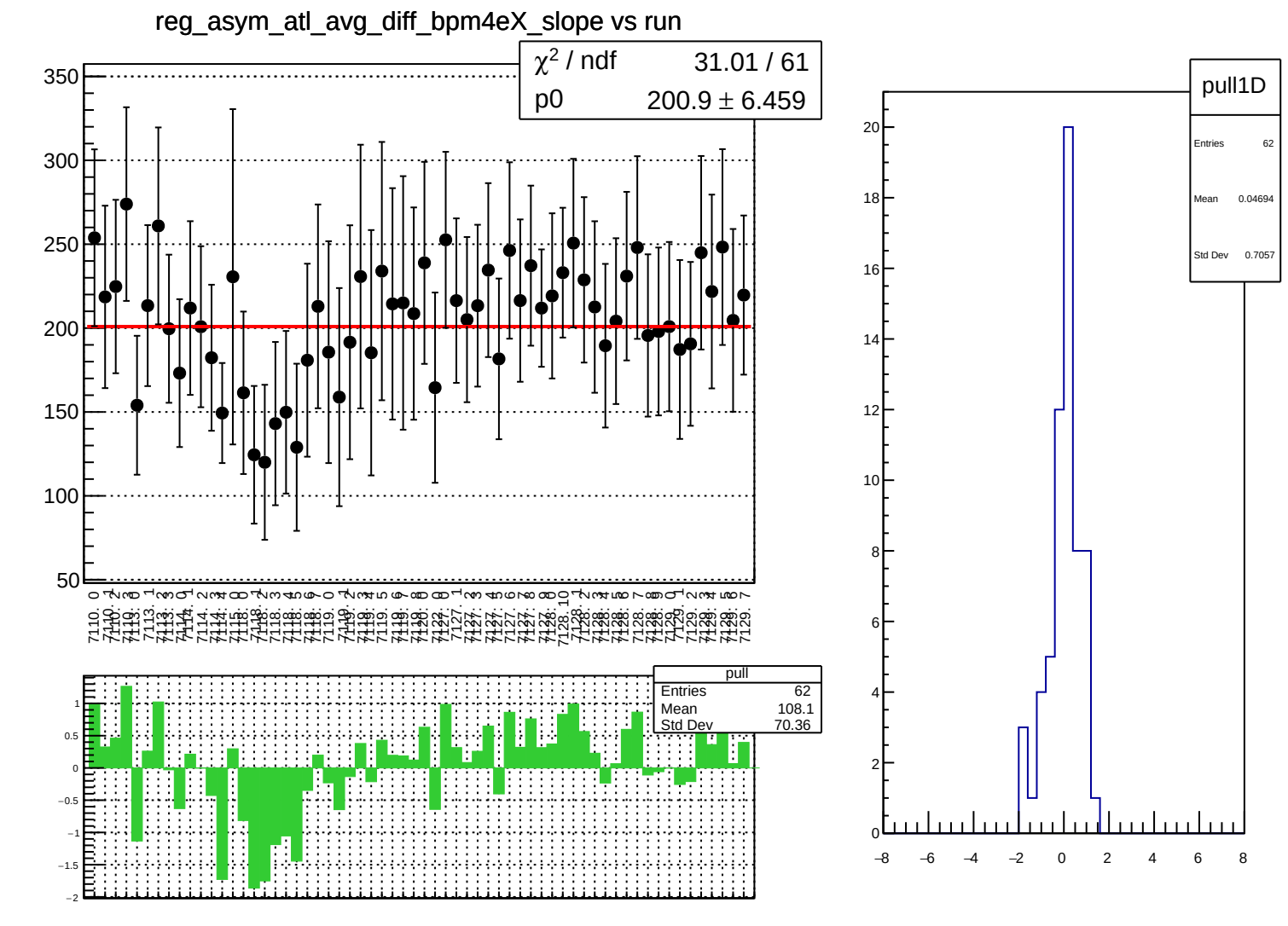

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 15.7 / 61
p0 −260.8 ± 0.4489
−250
−255
−260
−265
−270
pull
Entries 62
Mean 229.9
Std Dev 204.8
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 62
Mean 0.01061
Std Dev 0.503
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

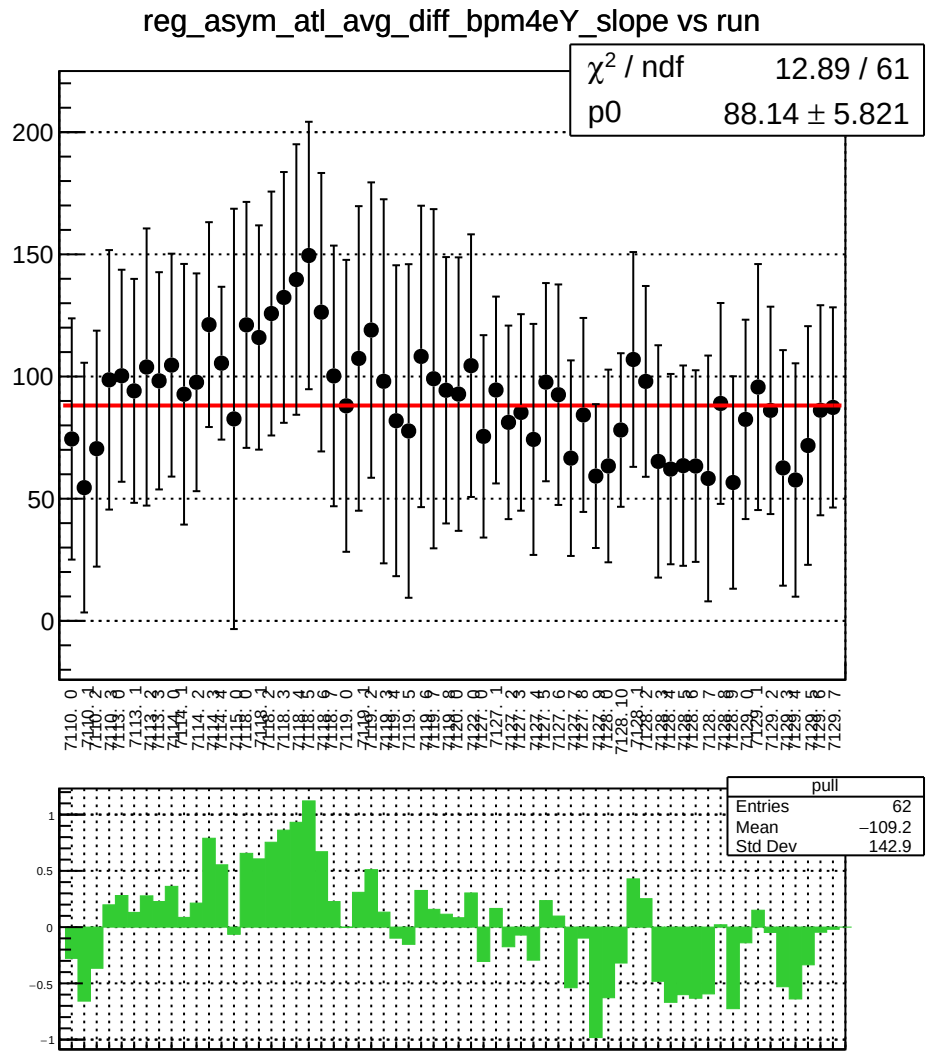

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 30.07 / 61
p0 −216.8 ± 6.5
pull
Entries 62
Mean 108.3
Std Dev 70.62

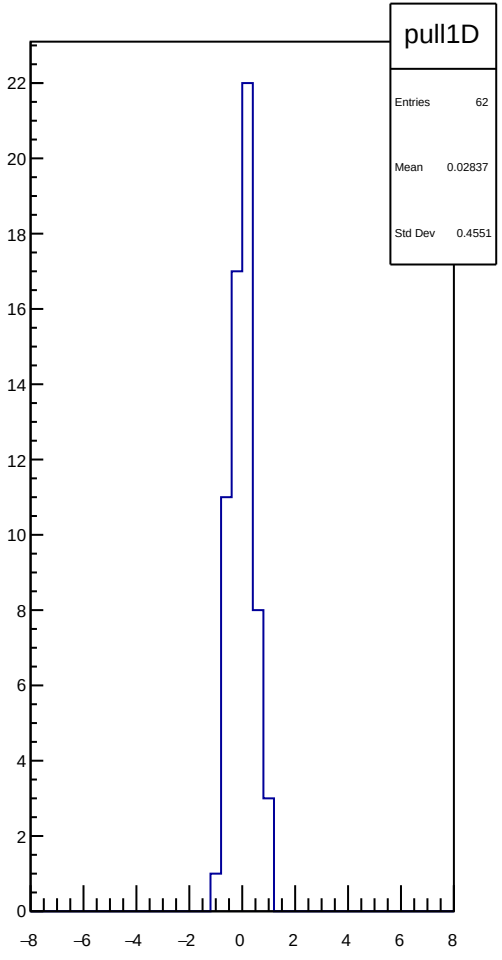

pull1D
Entries 62
Mean −0.04551
Std Dev 0.6949

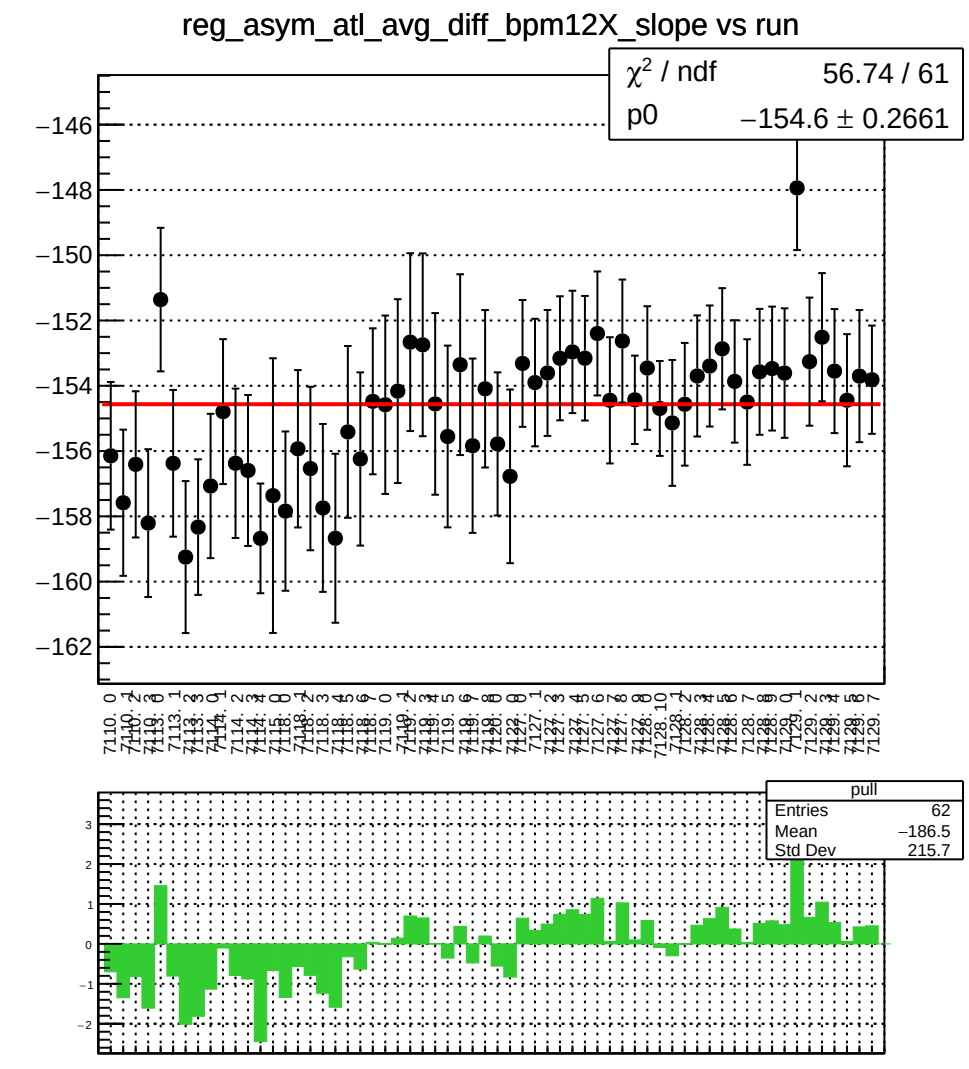

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.23 / 61
p0 −12.6 ± 5.52
pull
Entries 62
Mean −104.8
Std Dev 139

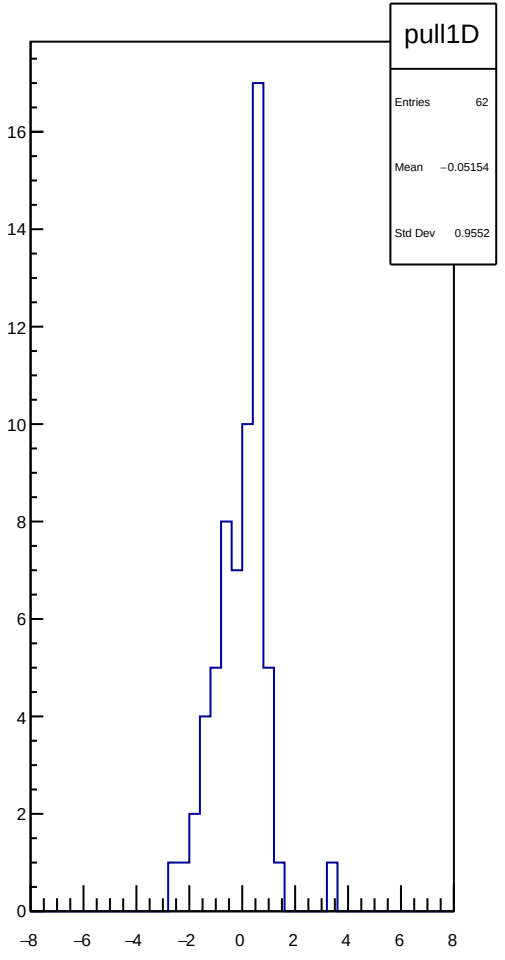

pull1D
Entries 62
Mean −0.02278
Std Dev 0.4055

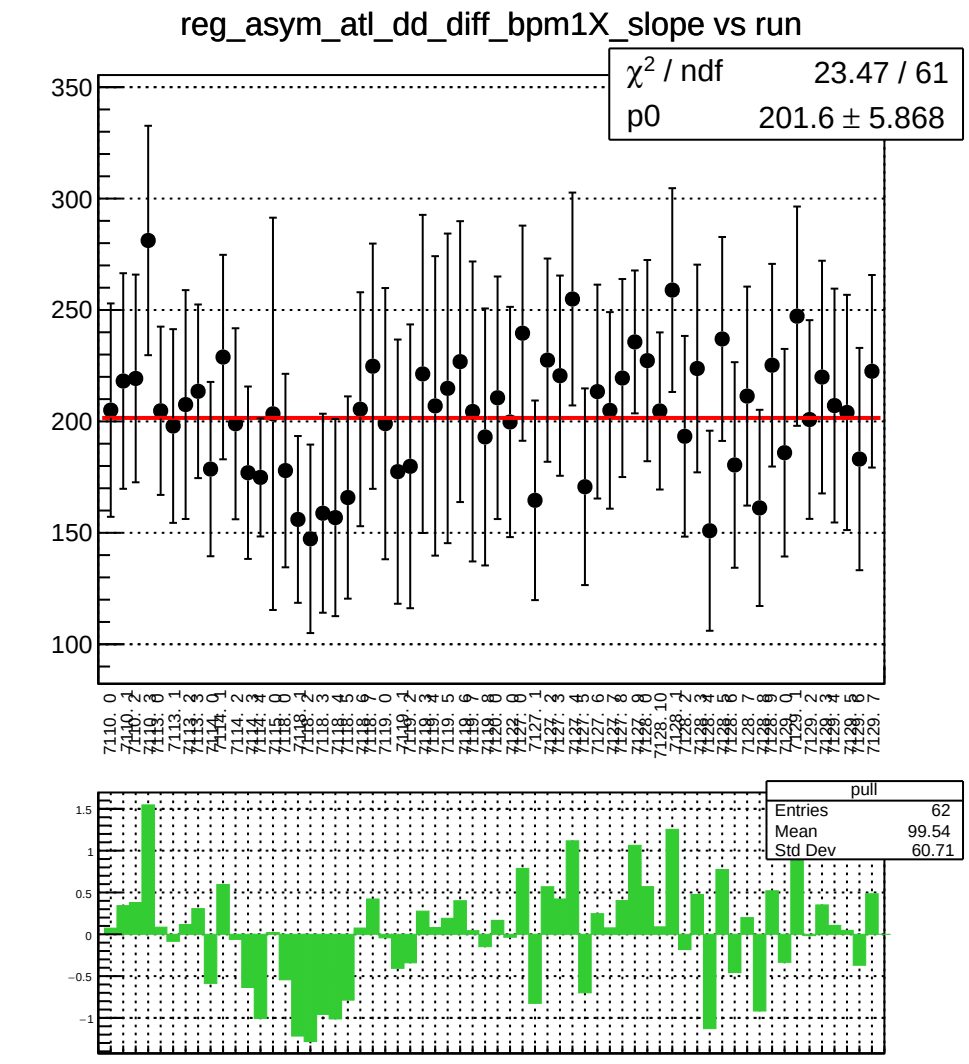

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.01 / 61
p0 200.9 ± 6.459
pull
Entries 62
Mean 108.1
Std Dev 70.36
pull1D
Entries 62
Mean 0.04694
Std Dev 0.7057

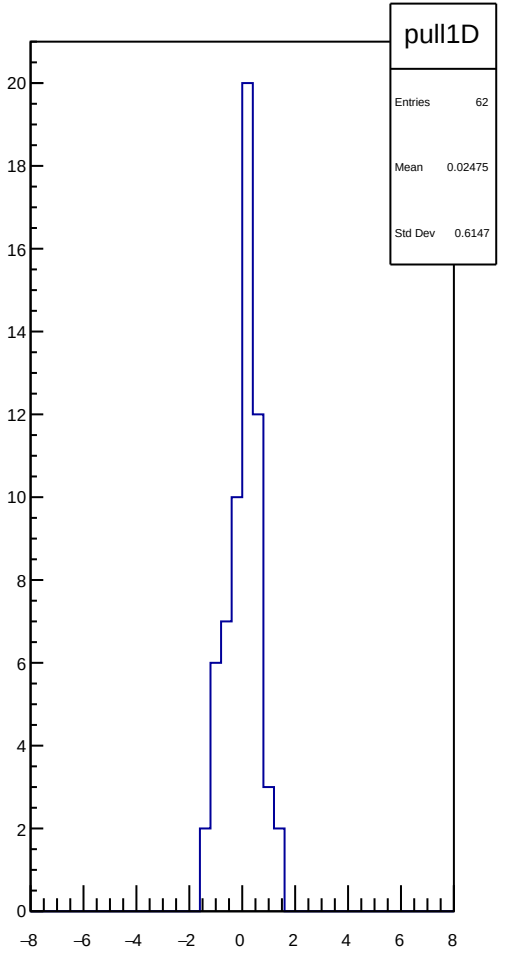

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.89 / 61
p0 88.14 ± 5.821
pull
Entries 62
Mean −109.2
Std Dev 142.9

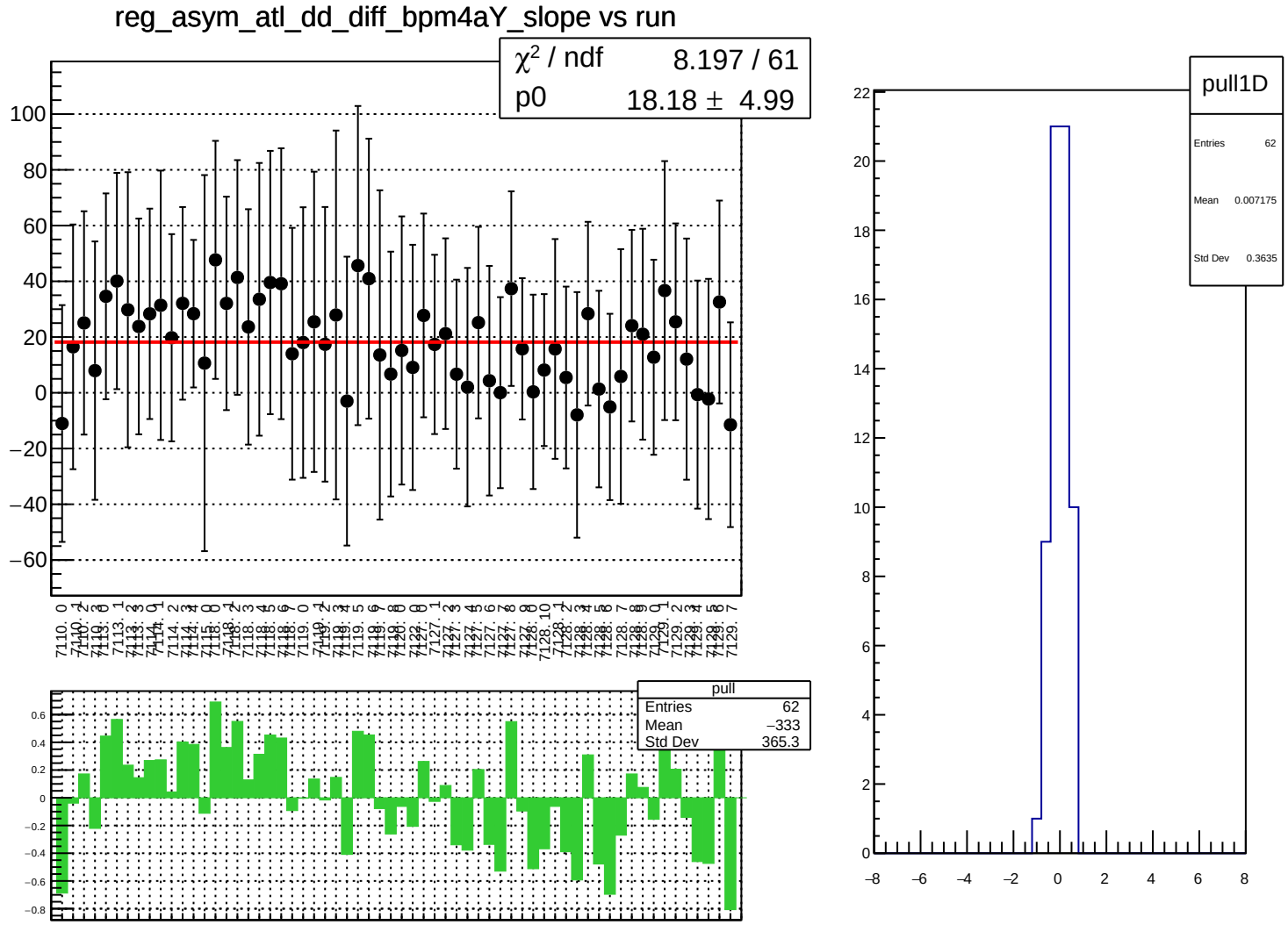

pull1D
Entries 62
Mean 0.02837
Std Dev 0.4551

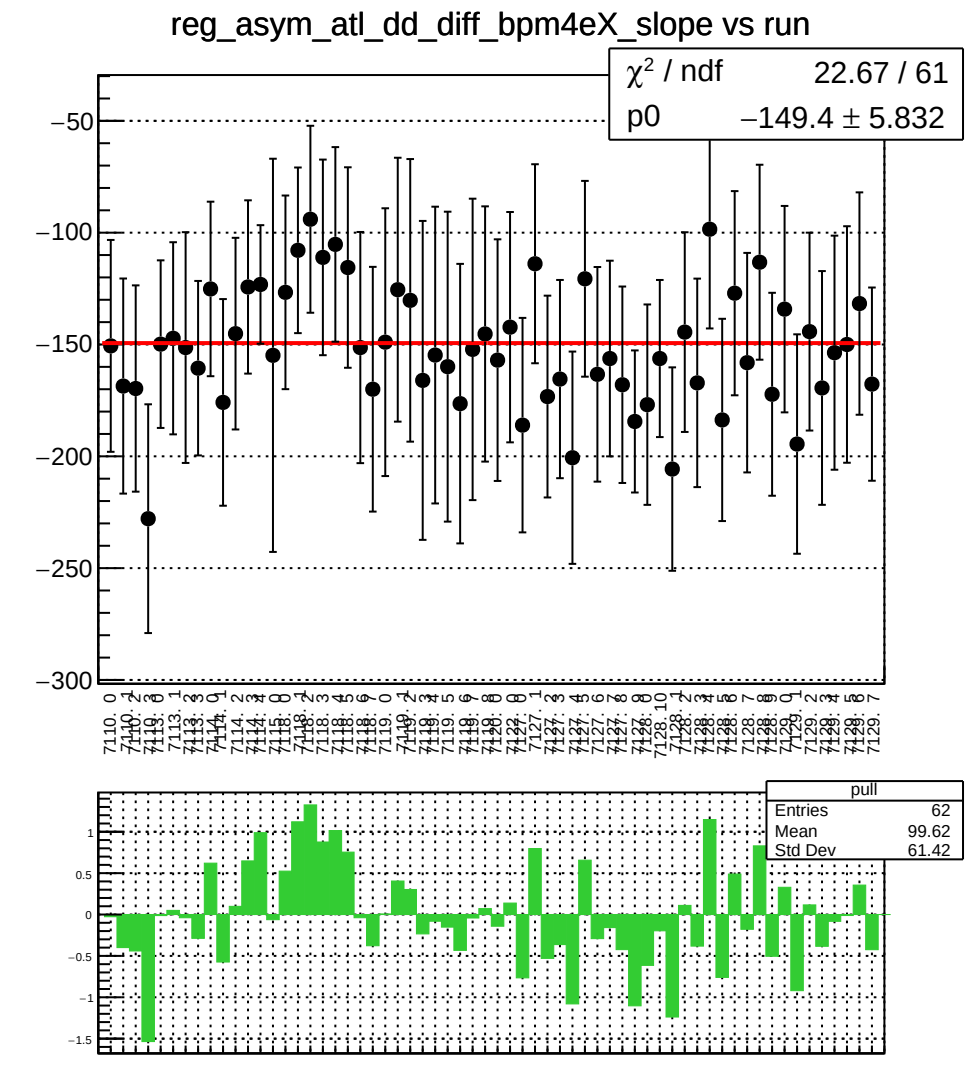

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 56.74 / 61
p0 −154.6 ± 0.2661
pull
Entries 62
Mean −186.5
Std Dev 215.7

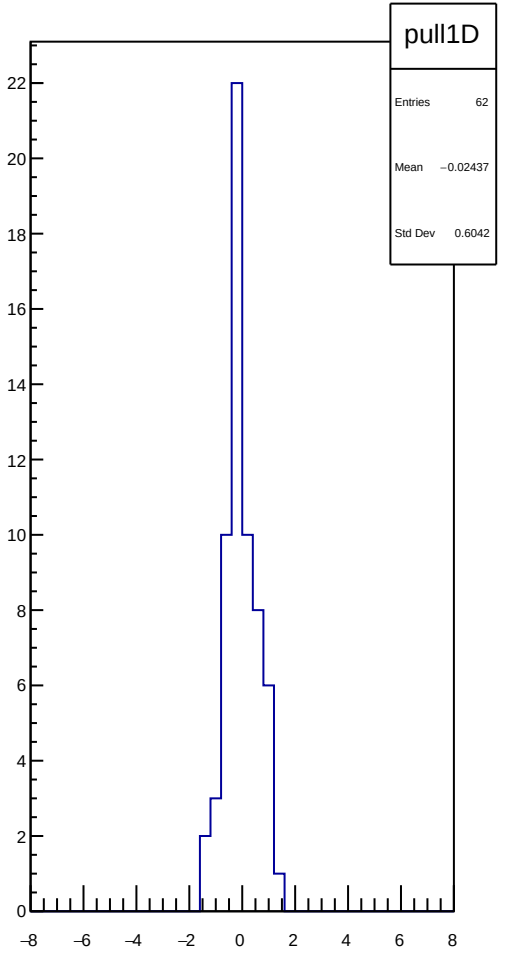

pull1D
Entries 62
Mean −0.05154
Std Dev 0.9552

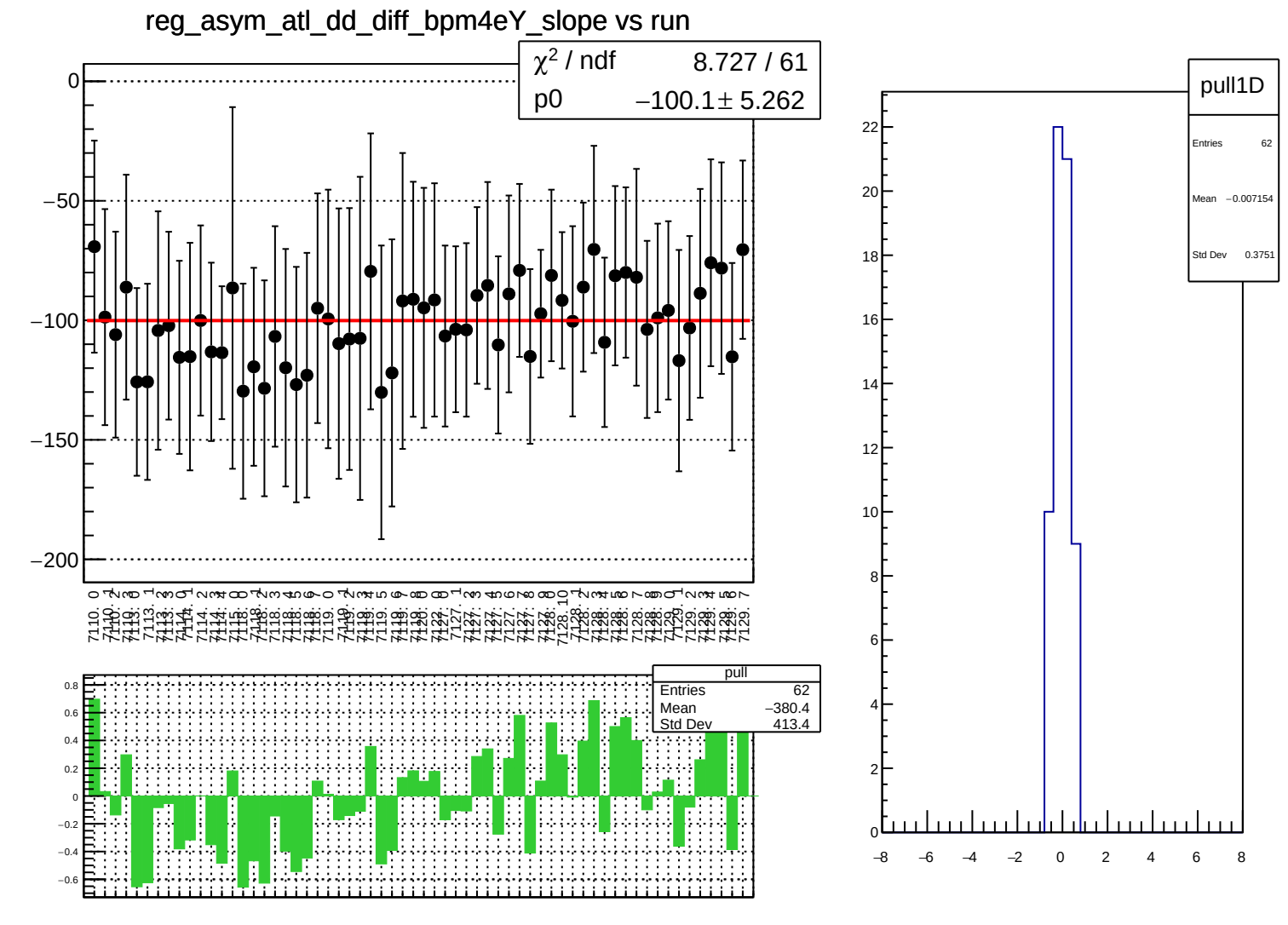

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 23.47 / 61
p0 201.6 ± 5.868
pull
Entries 62
Mean 99.54
Std Dev 60.71

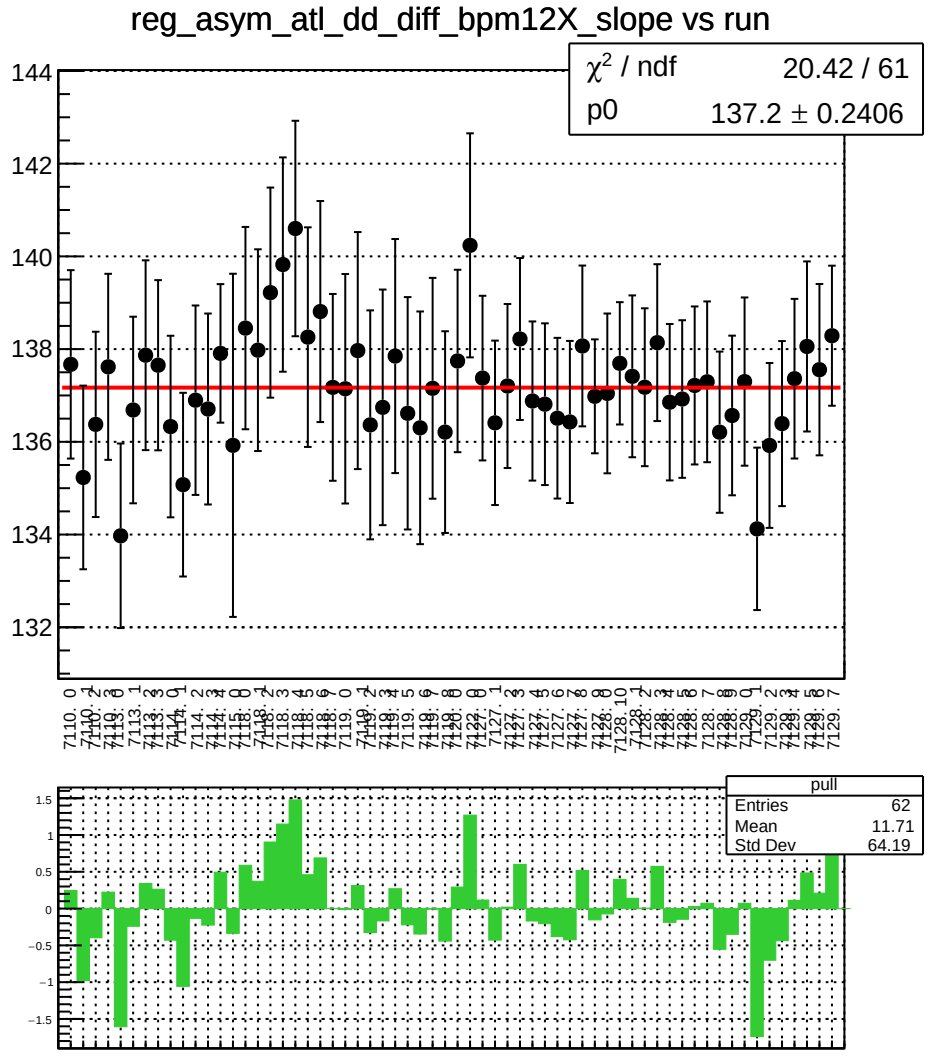

pull1D
Entries 62
Mean 0.02475
Std Dev 0.6147

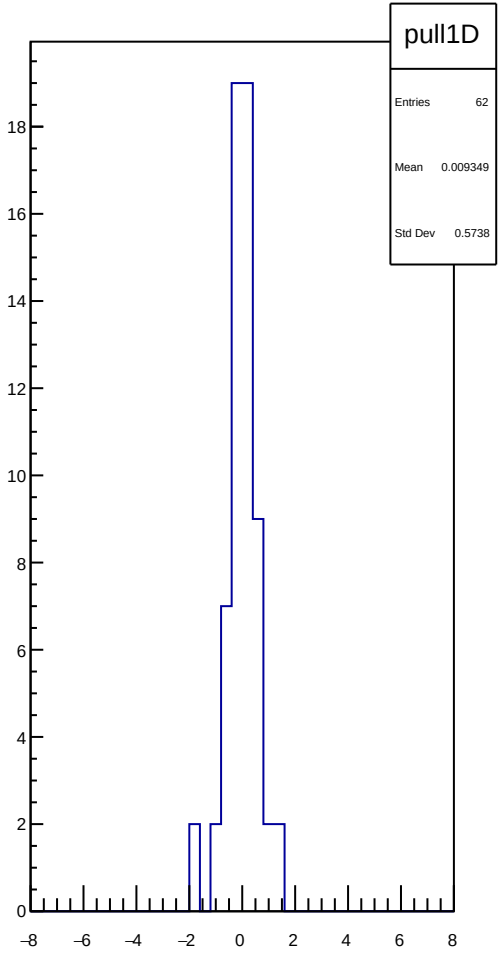

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.197 / 61
p0 18.18 ± 4.99
pull
Entries 62
Mean −333
Std Dev 365.3
pull1D
Entries 62
Mean 0.007175
Std Dev 0.3635

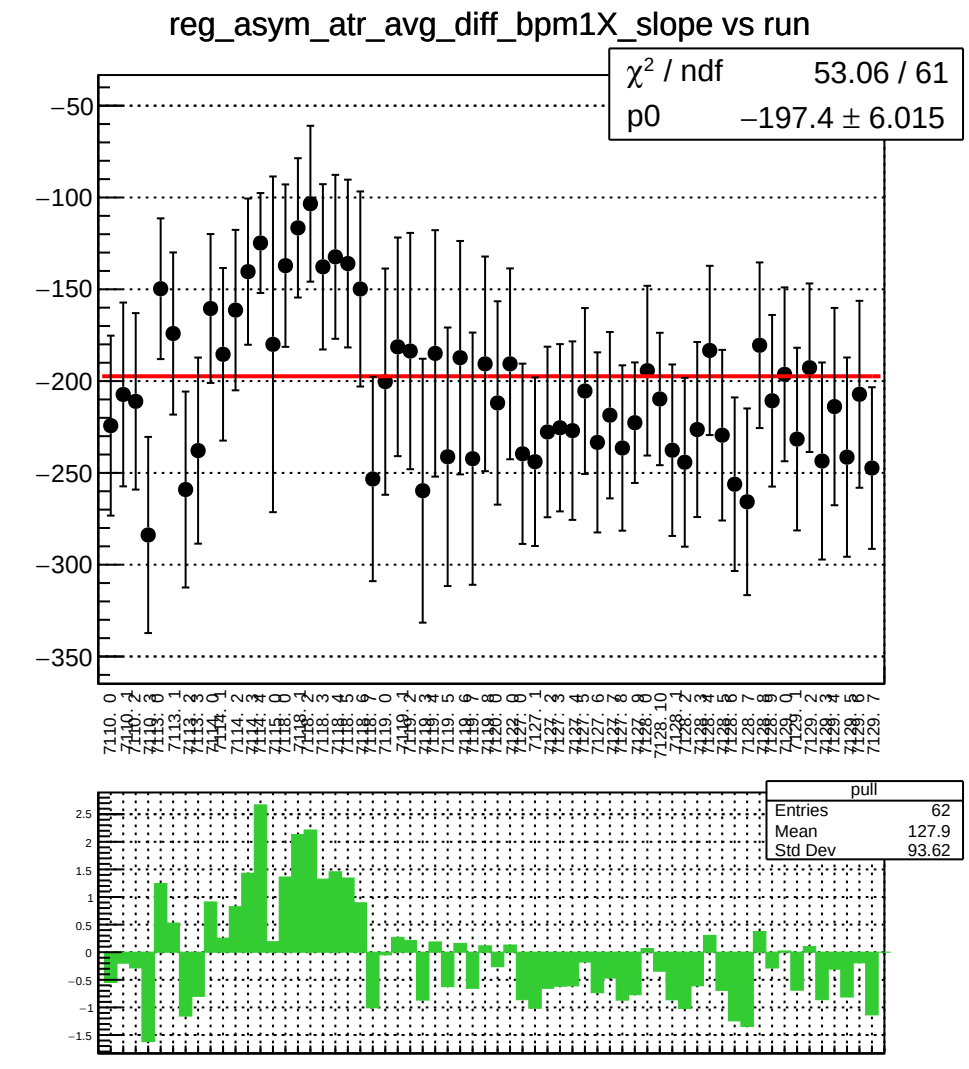

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.67 / 61
p0 −149.4 ± 5.832
pull
Entries 62
Mean 99.62
Std Dev 61.42

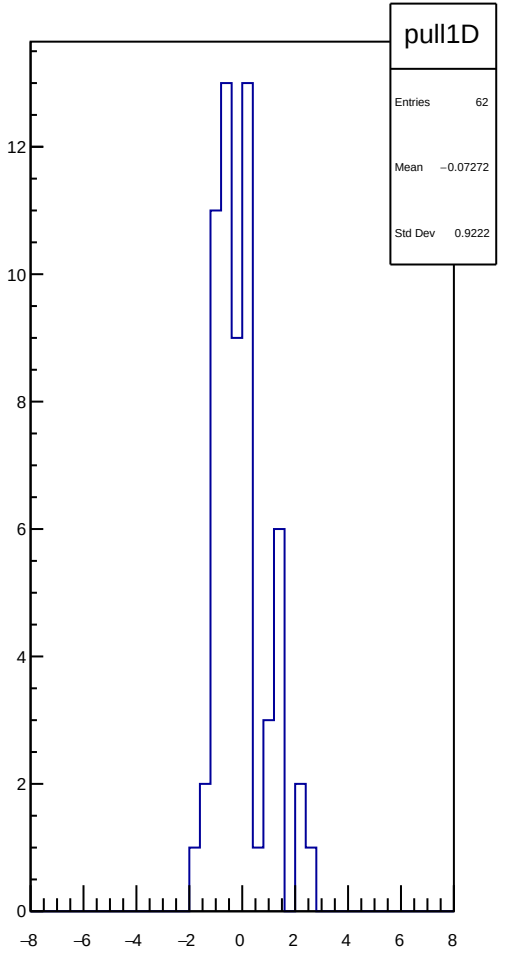

pull1D
Entries 62
Mean −0.02437
Std Dev 0.6042

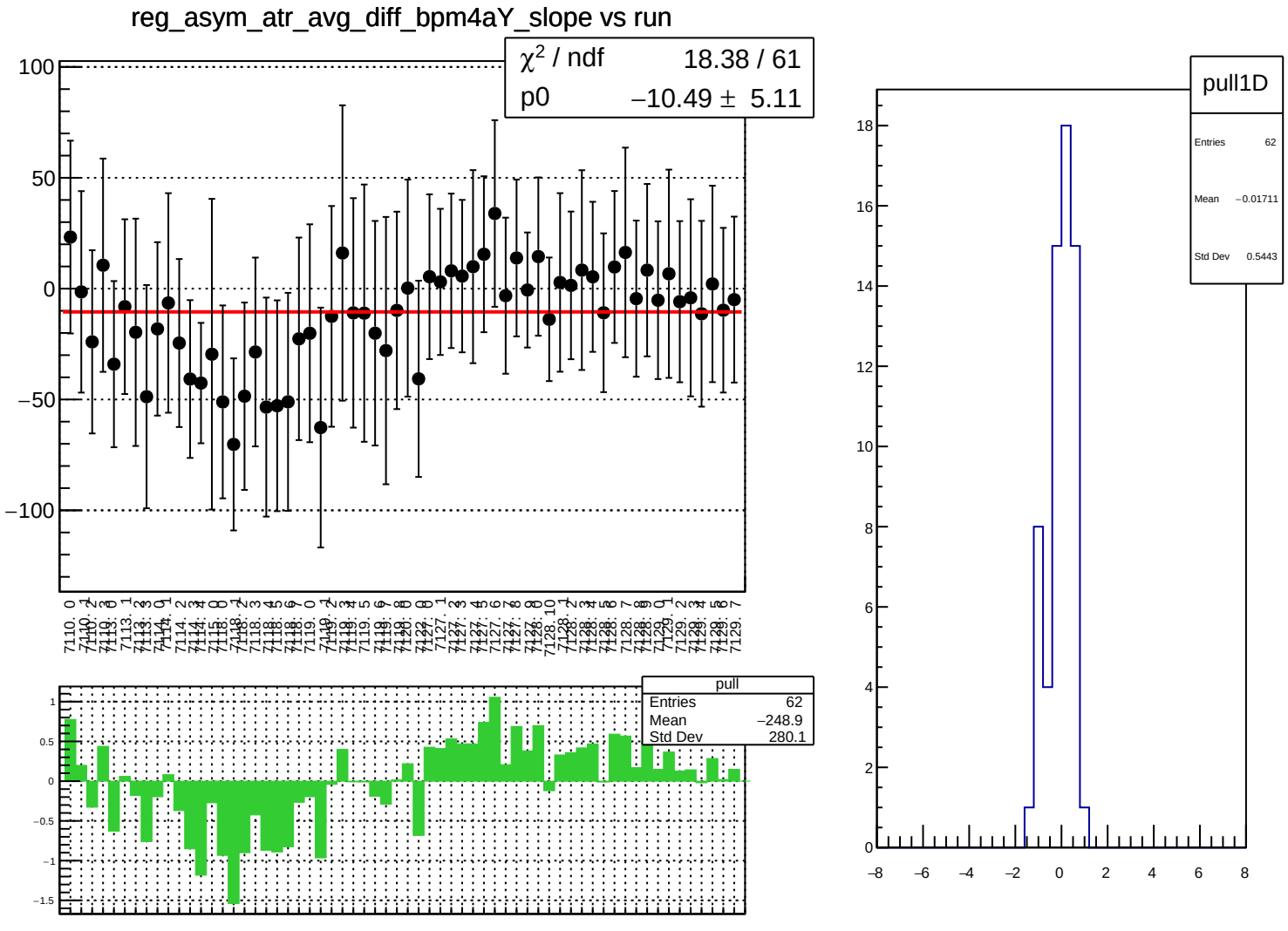

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.727 / 61
p0 −100.1 ± 5.262
pull
Entries 62
Mean −380.4
Std Dev 413.4
pull1D
Entries 62
Mean −0.007154
Std Dev 0.3751

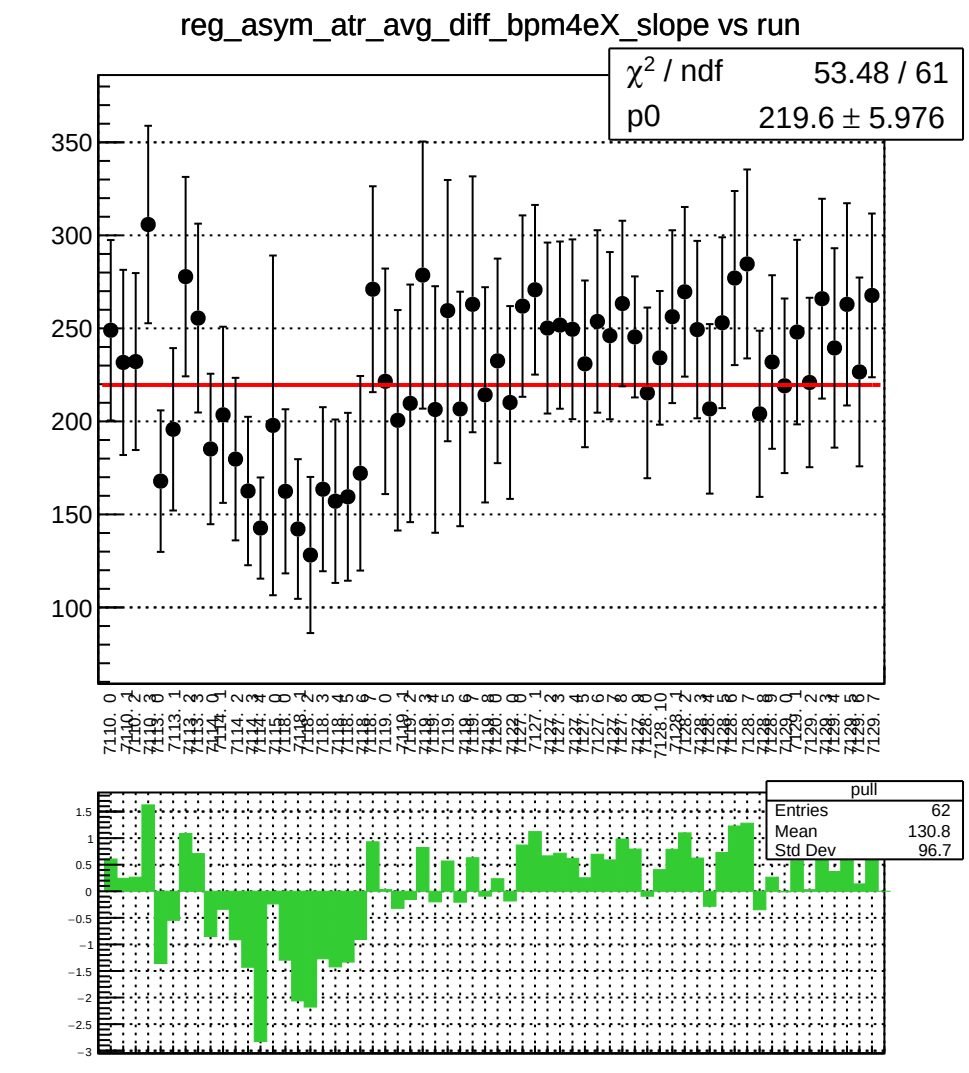

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 20.42 / 61
p0 137.2 ± 0.2406
144
142
140
138
136
134
132
pull
Entries 62
Mean 11.71
Std Dev 64.19
1.5
1
0.5
0
−0.5
−1
−1.5

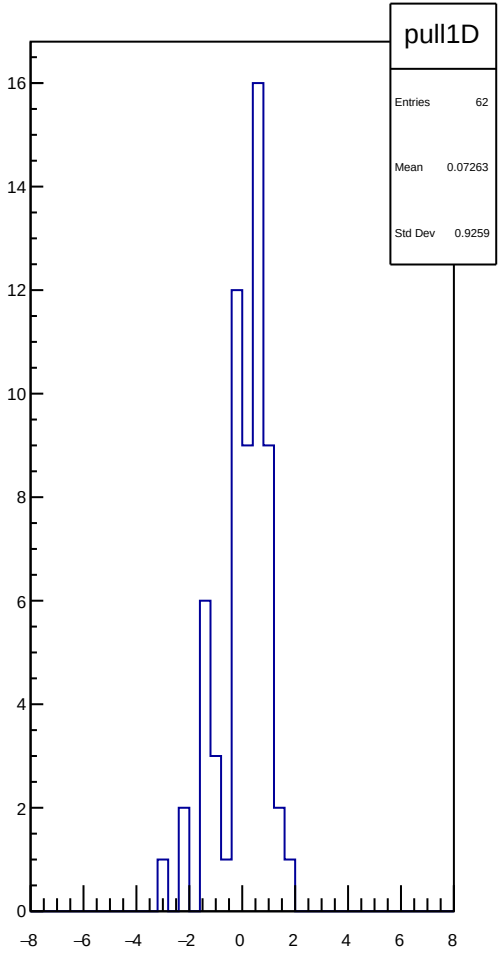

pull1D
Entries 62
Mean 0.009349
Std Dev 0.5738
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

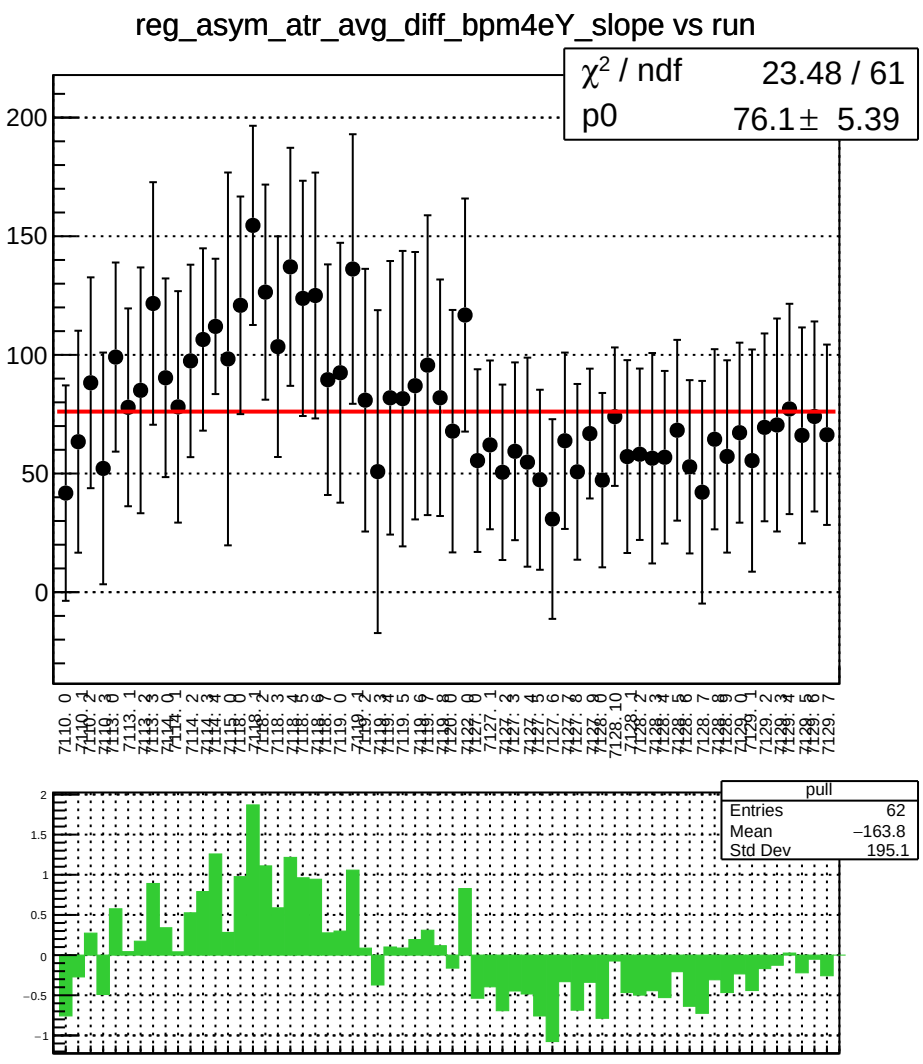

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 53.06 / 61
p0 −197.4 ± 6.015
pull
Entries 62
Mean 127.9
Std Dev 93.62

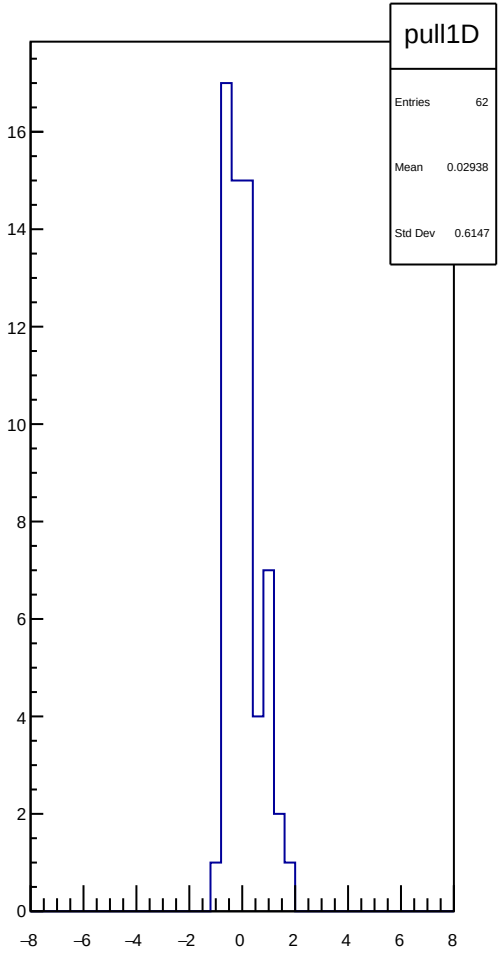

pull1D
Entries 62
Mean −0.07272
Std Dev 0.9222

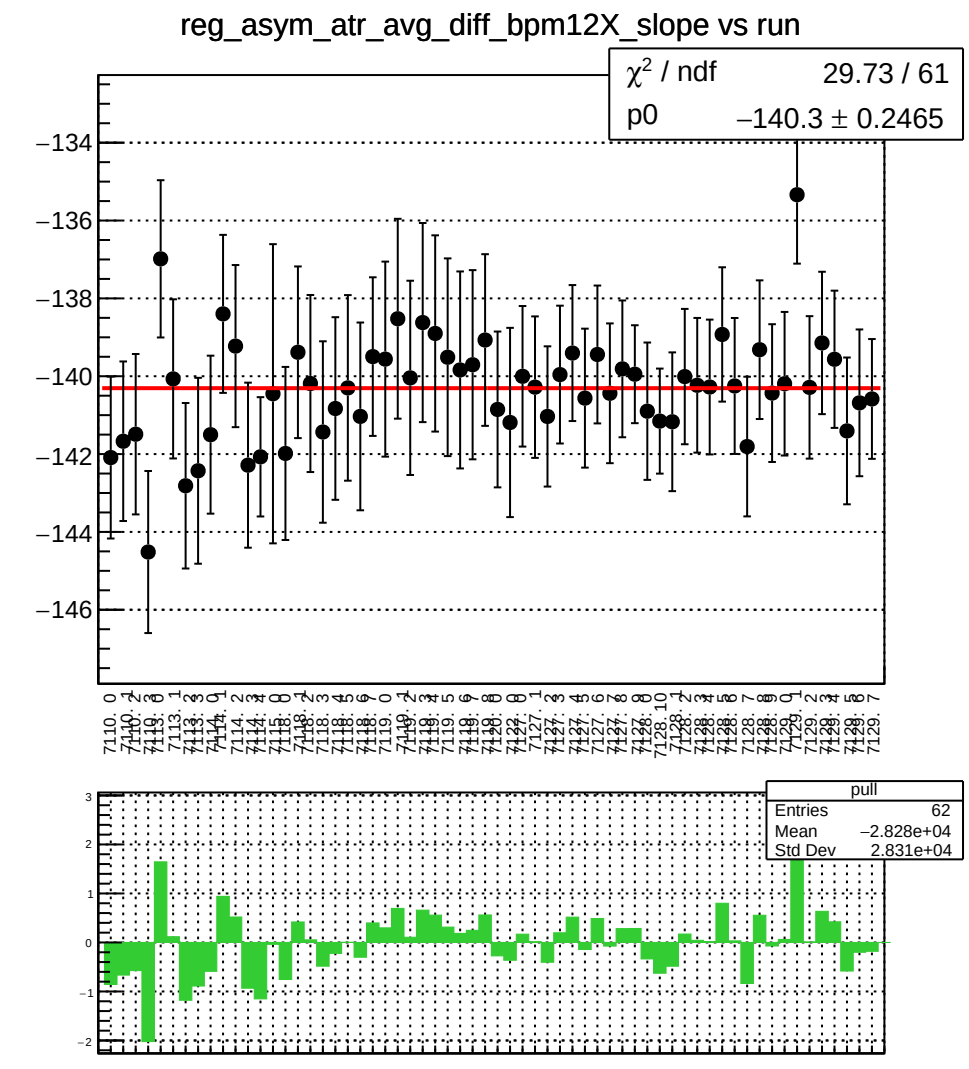

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.38 / 61
p0 −10.49 ± 5.11
pull
Entries 62
Mean −248.9
Std Dev 280.1
pull1D
Entries 62
Mean −0.01711
Std Dev 0.5443

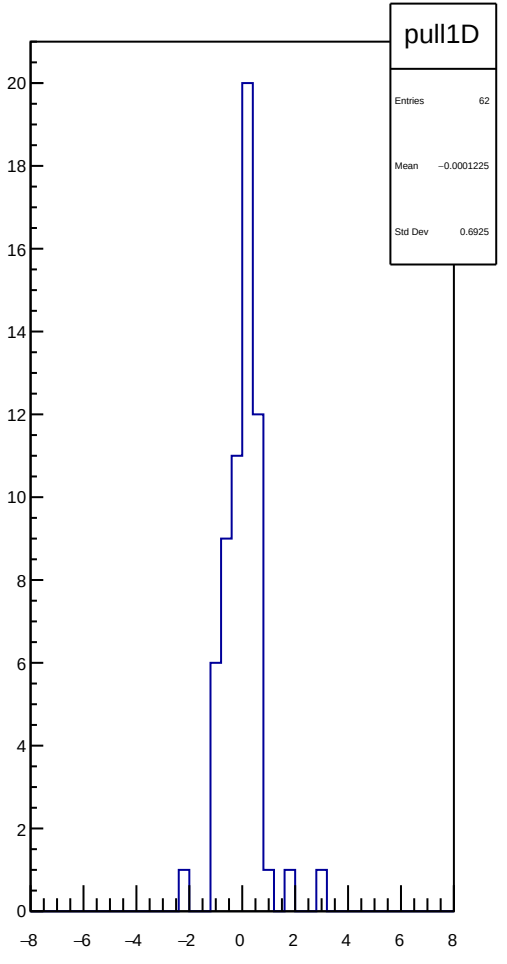

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 53.48 / 61
p0 219.6 ± 5.976
pull
Entries 62
Mean 130.8
Std Dev 96.7

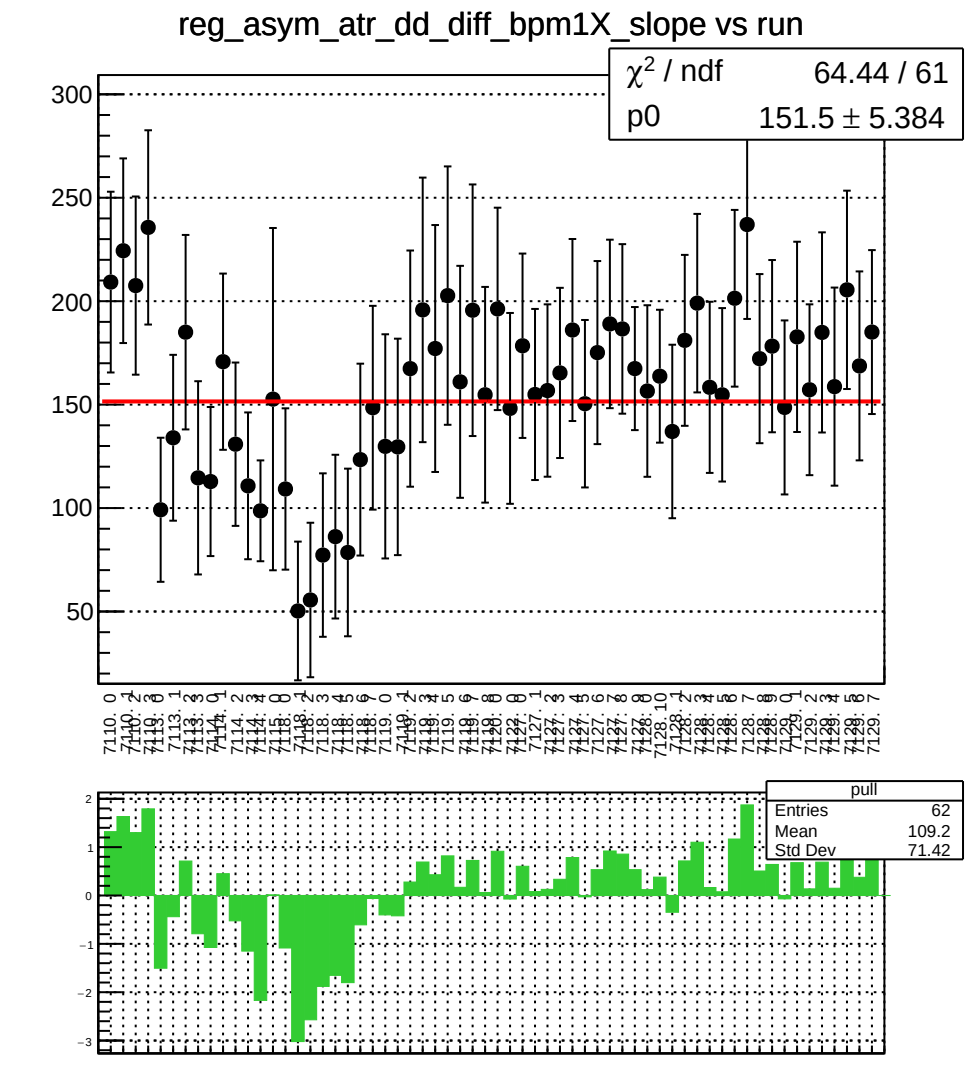

pull1D
Entries 62
Mean 0.07263
Std Dev 0.9259

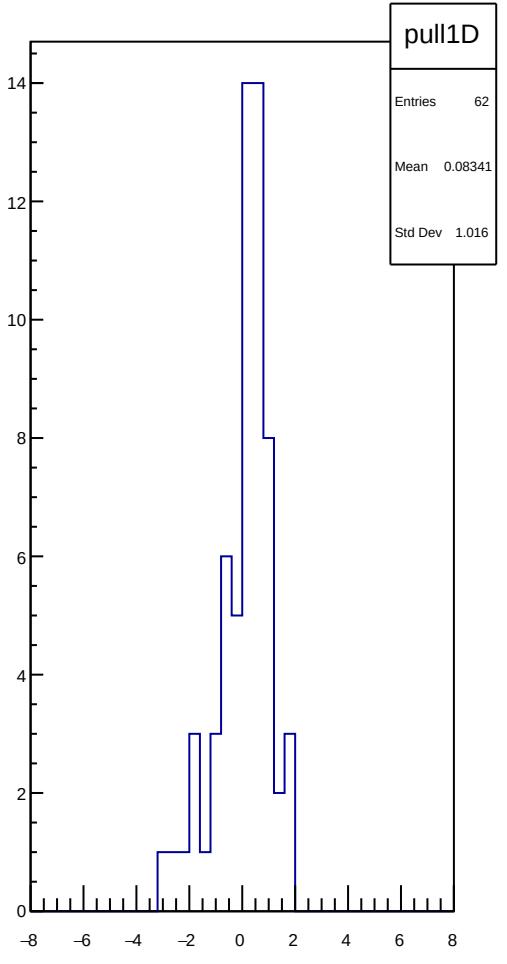

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.48 / 61
p0 76.1 ± 5.39
pull
Entries 62
Mean −163.8
Std Dev 195.1

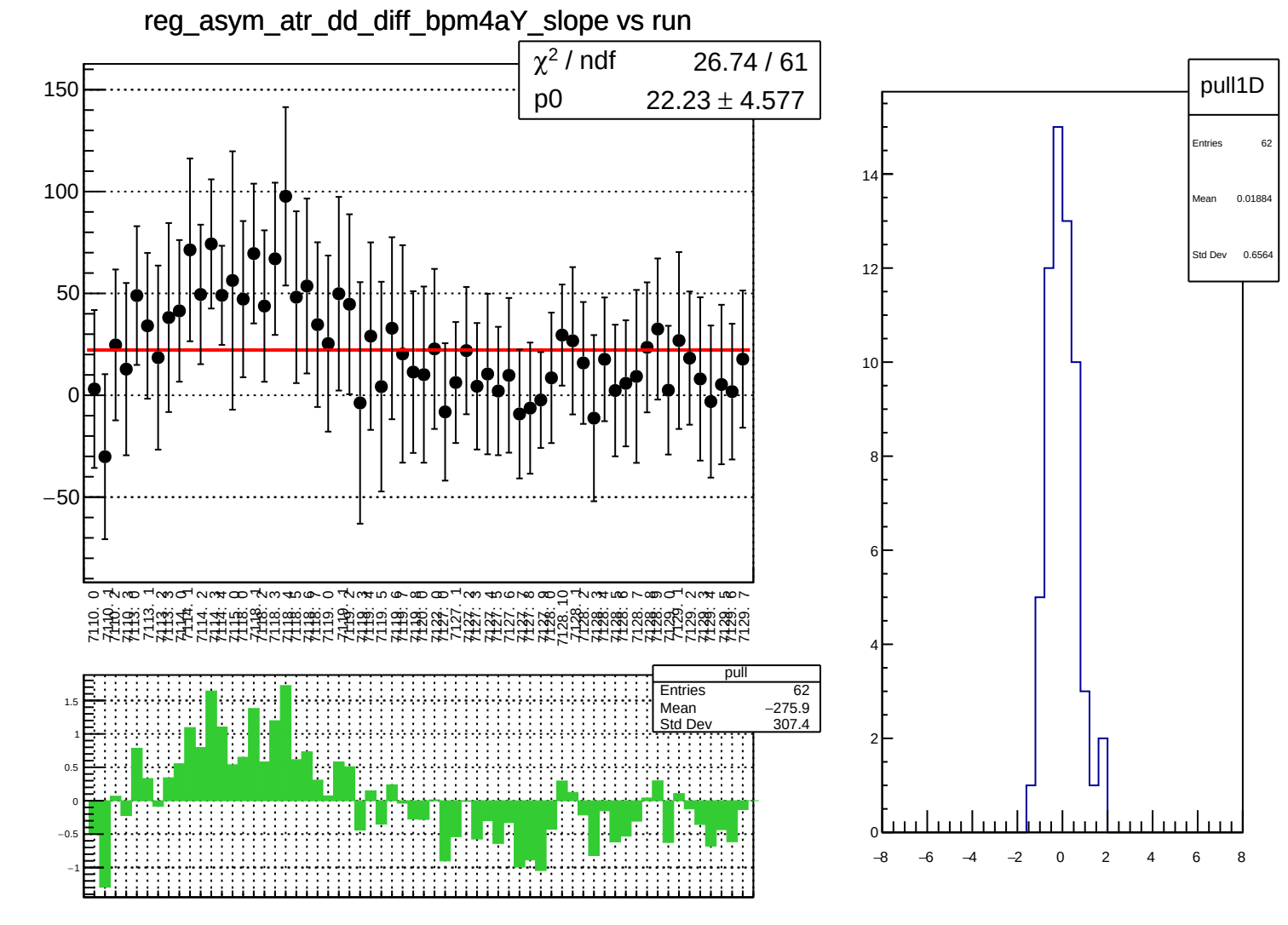

pull1D
Entries 62
Mean 0.02938
Std Dev 0.6147

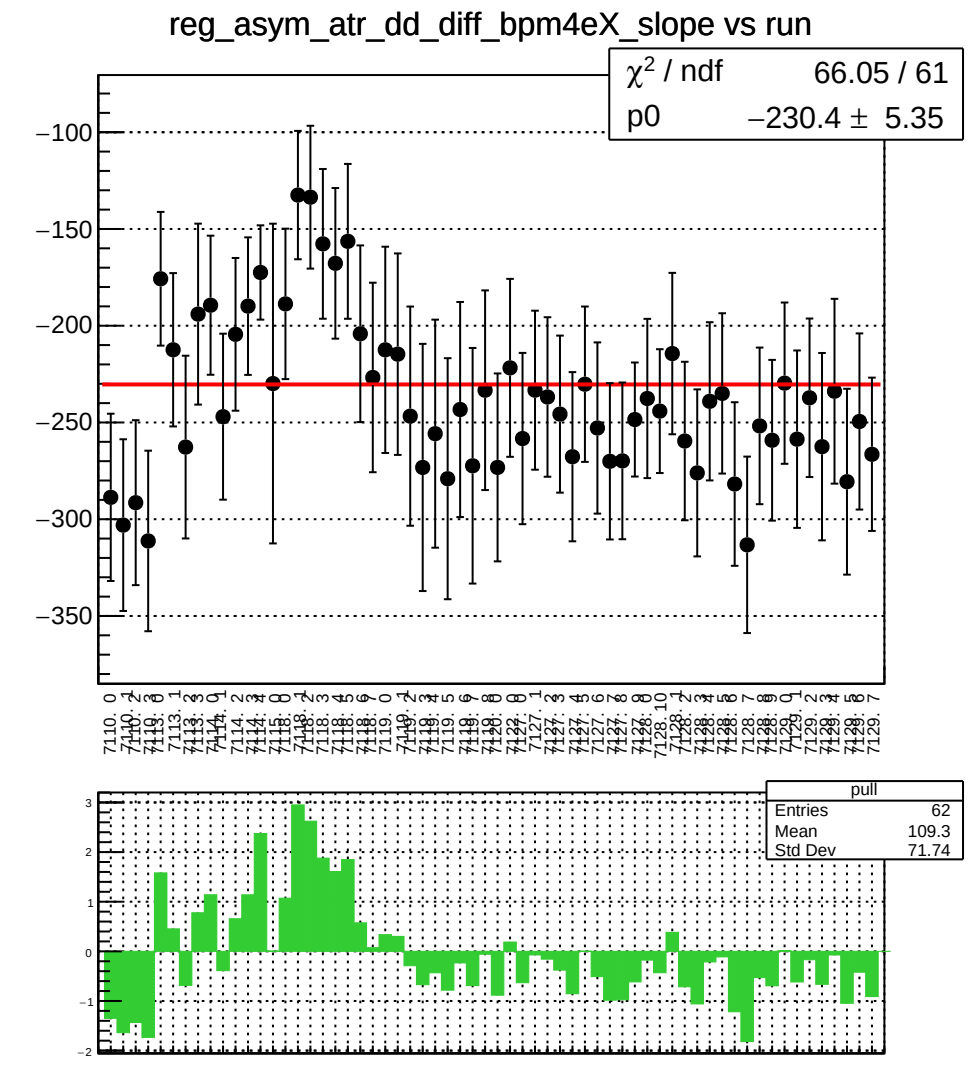

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 29.73 / 61
p0 −140.3 ± 0.2465
pull
Entries 62
Mean −2.828e+04
Std Dev 2.831e+04

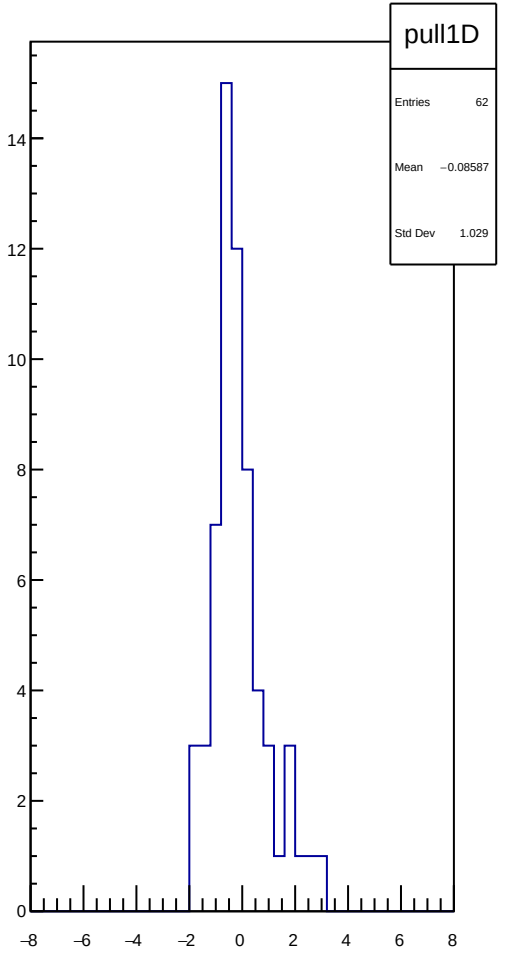

pull1D
Entries 62
Mean −0.0001225
Std Dev 0.6925

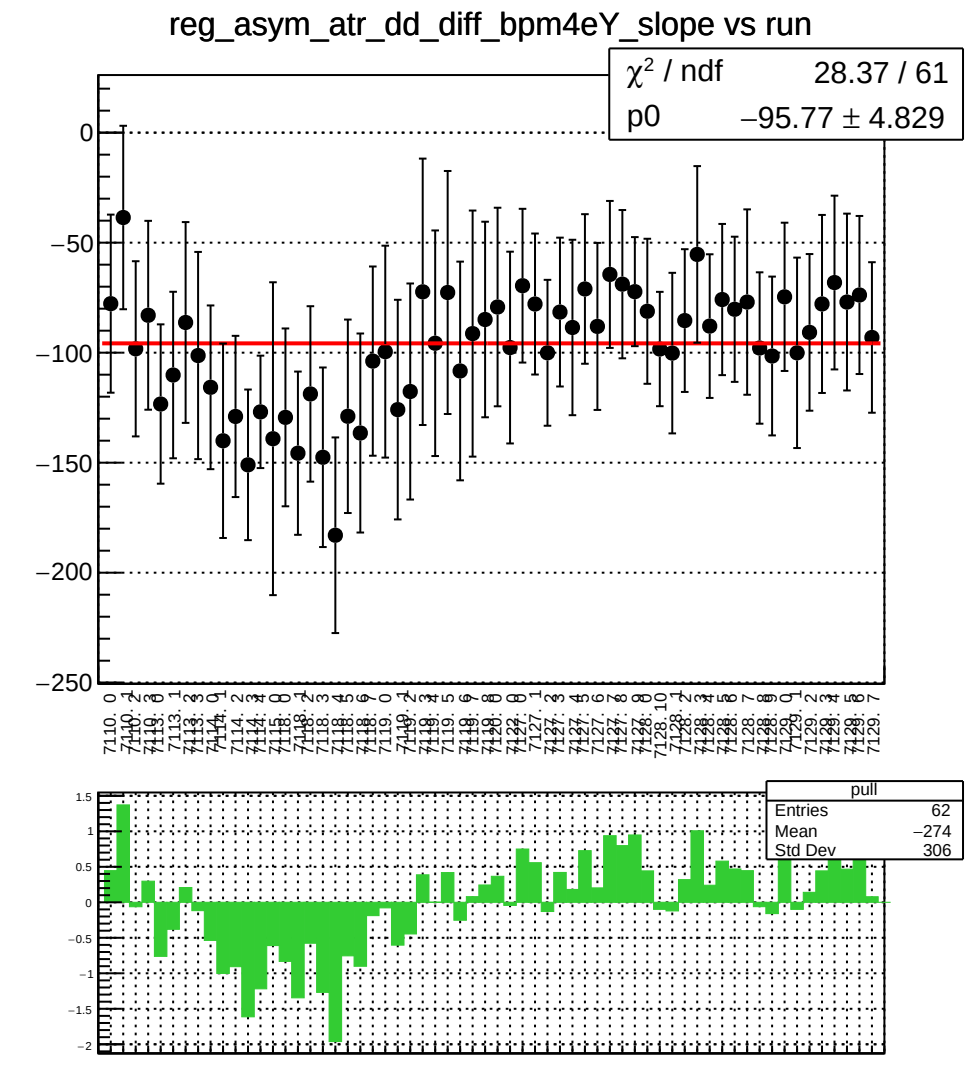

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 64.44 / 61
p0 151.5 ± 5.384
pull
Entries 62
Mean 109.2
Std Dev 71.42

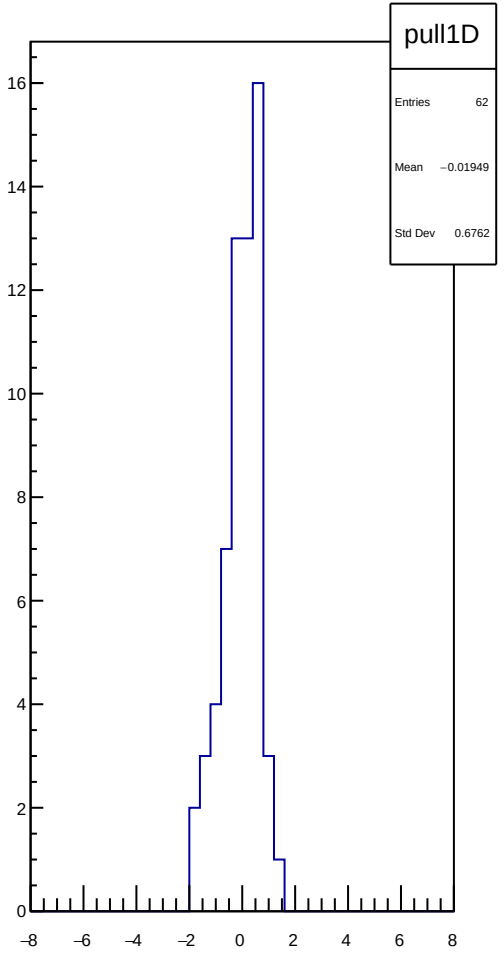

pull1D
Entries 62
Mean 0.08341
Std Dev 1.016

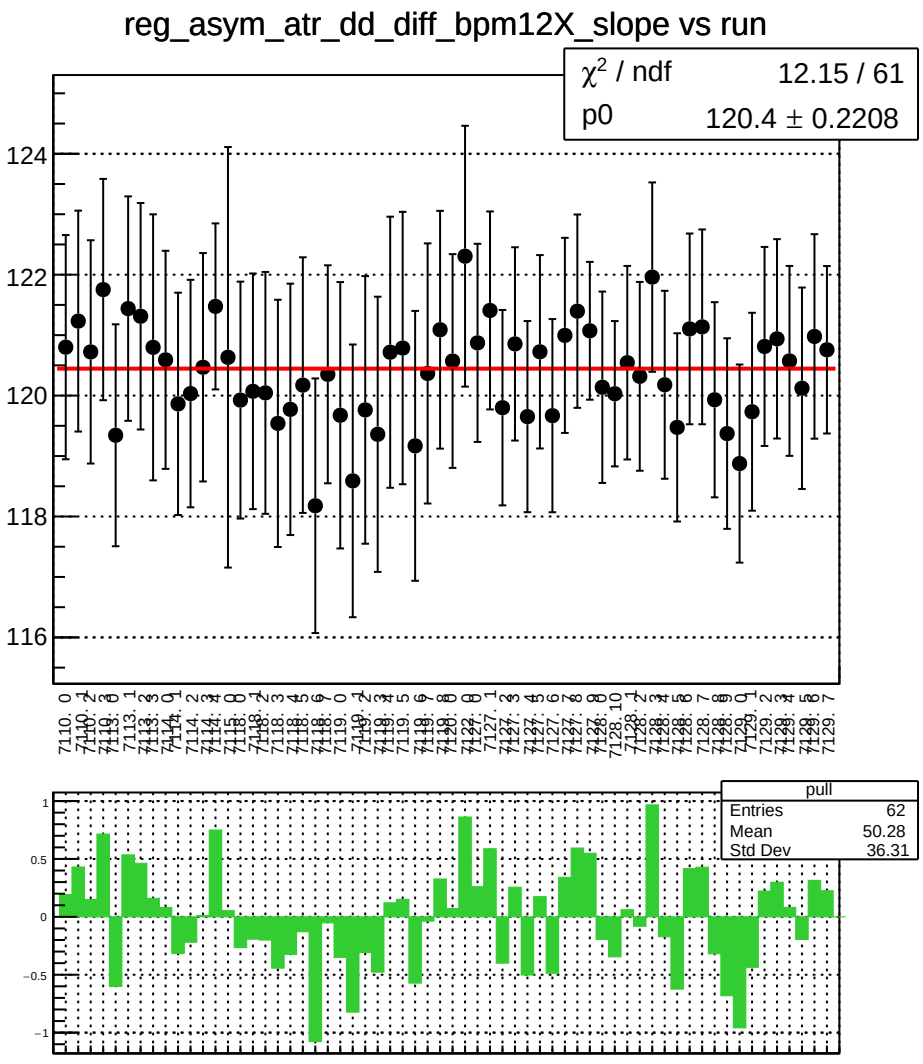

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.74 / 61
p0 22.23 ± 4.577
150
100
50
0
−50
pull
Entries 62
Mean −275.9
Std Dev 307.4
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 62
Mean 0.01884
Std Dev 0.6564
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

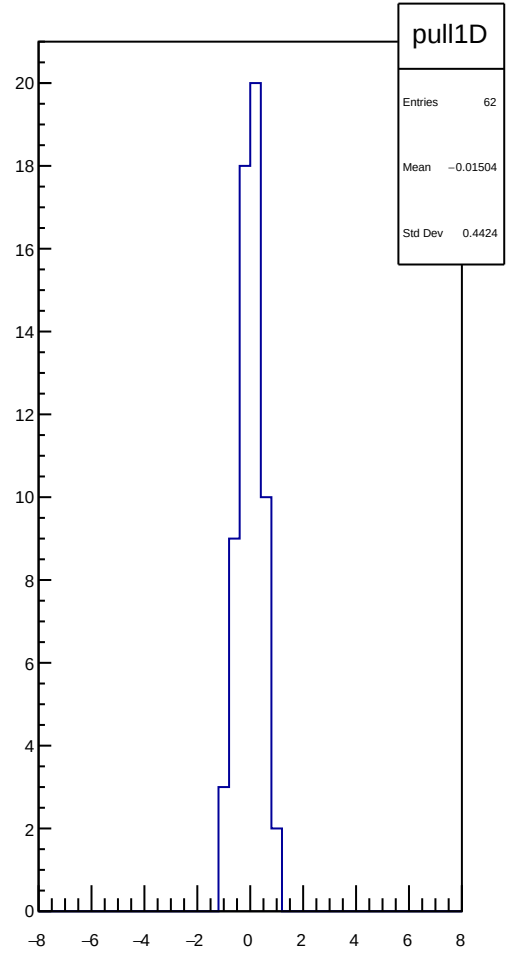

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.05 / 61
p0 −230.4 ± 5.35
pull
Entries 62
Mean 109.3
Std Dev 71.74

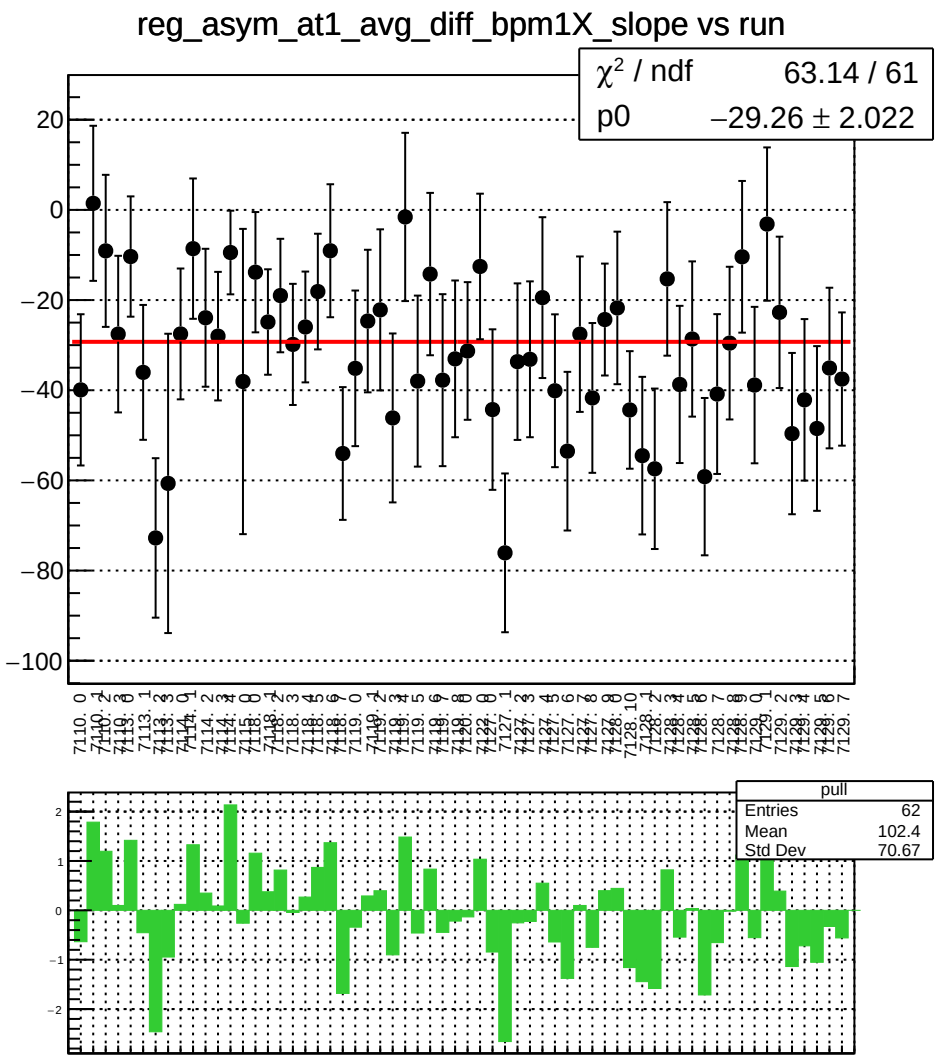

pull1D
Entries 62
Mean −0.08587
Std Dev 1.029

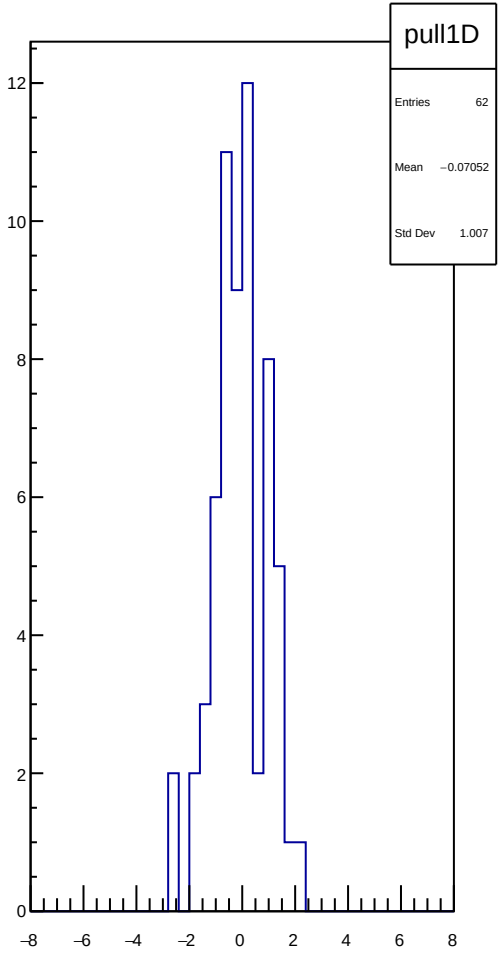

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.37 / 61
p0 −95.77 ± 4.829
pull
Entries 62
Mean −274
Std Dev 306

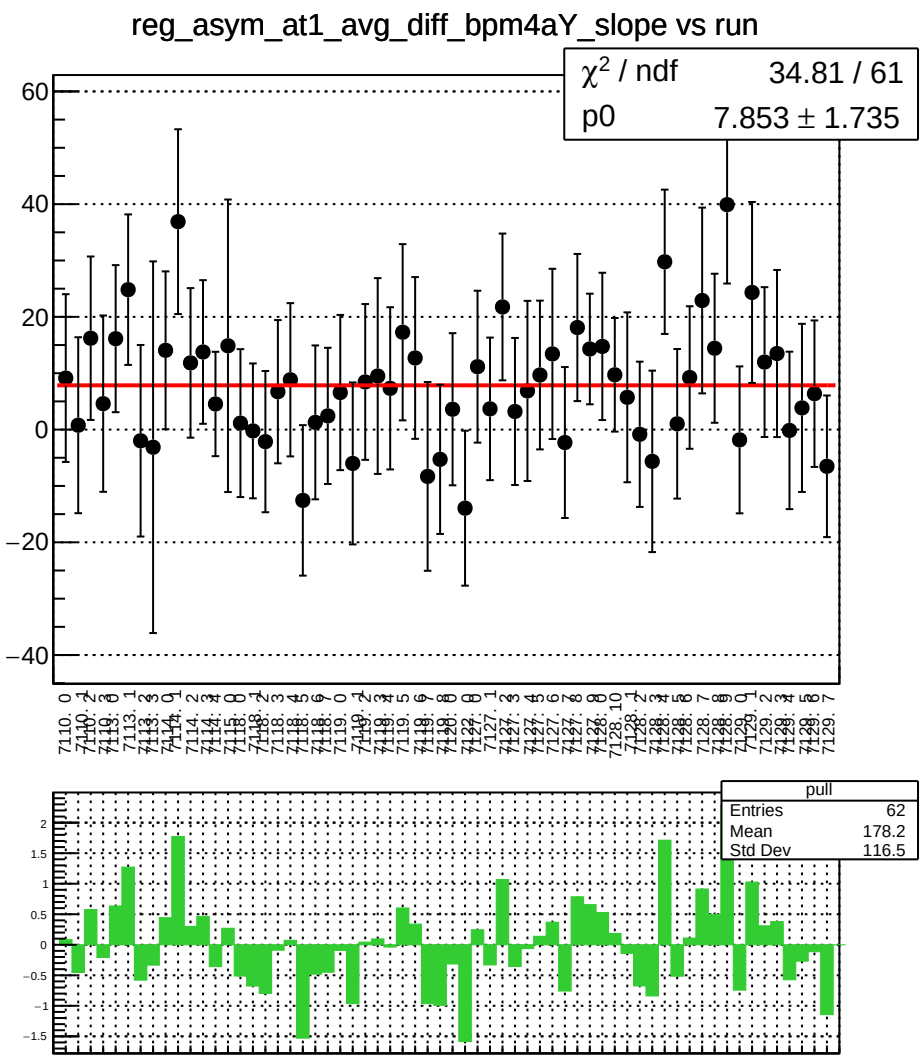

pull1D
Entries 62
Mean −0.01949
Std Dev 0.6762

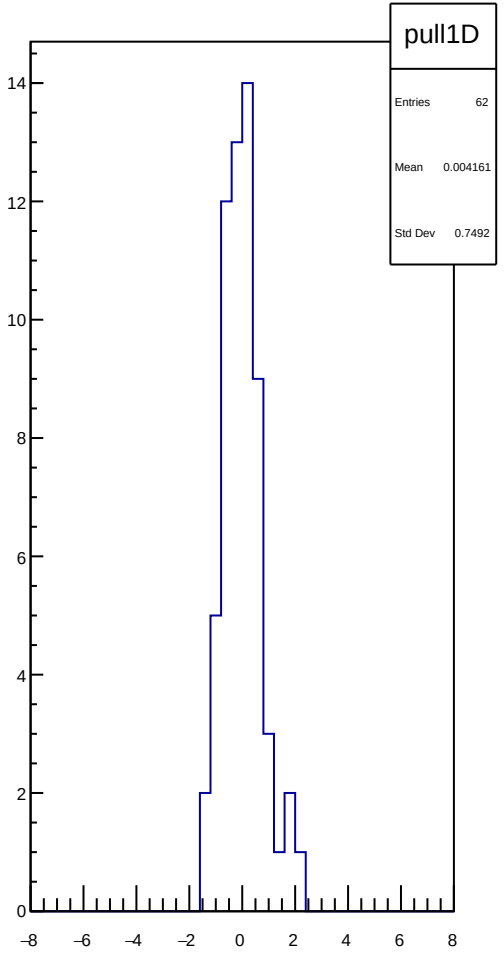

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 12.15 / 61
p0 120.4 ± 0.2208
124
122
120
118
116
pull
Entries 62
Mean 50.28
Std Dev 36.31
1
0.5
0
−0.5
−1

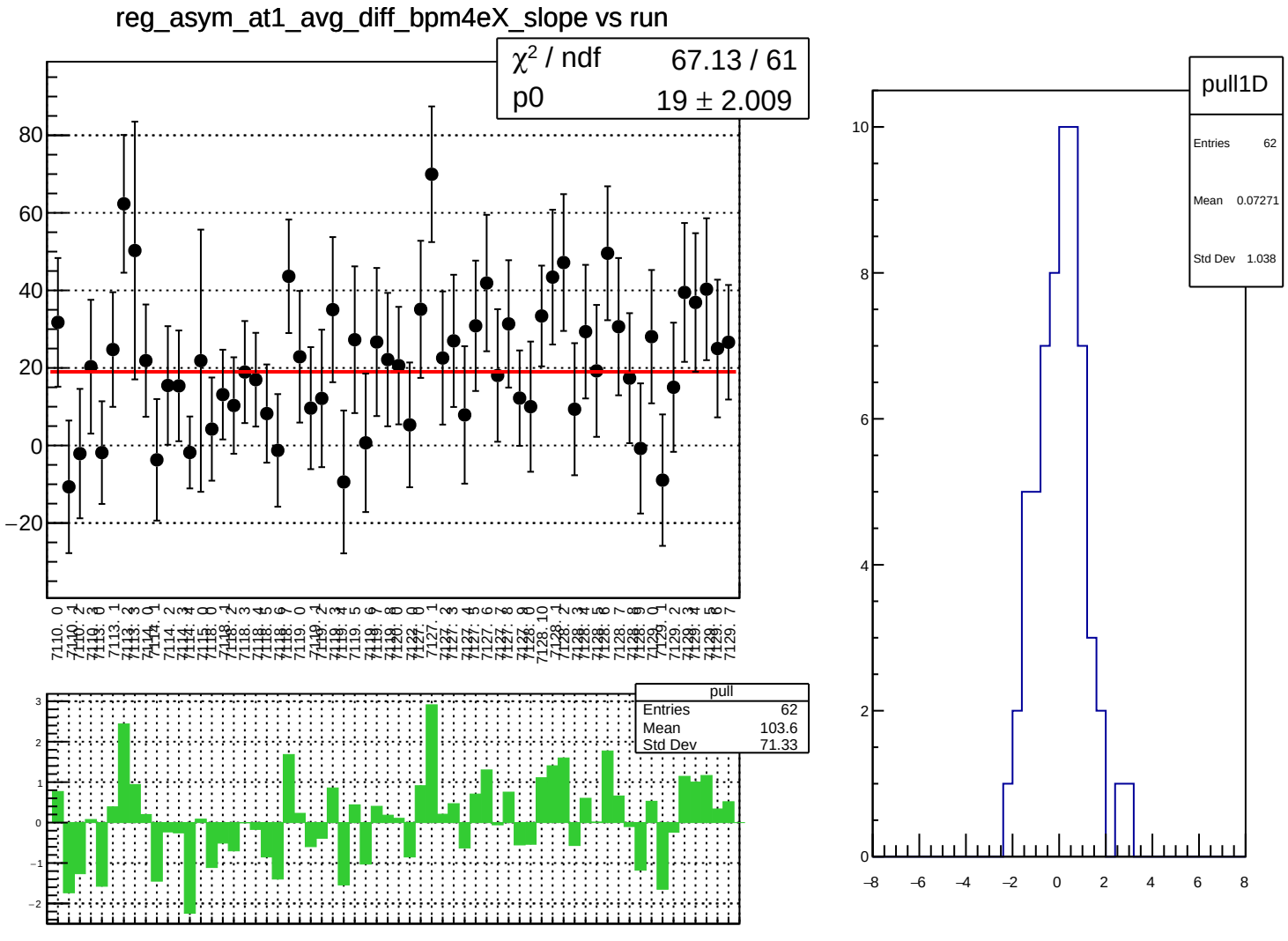

pull1D
Entries 62
Mean −0.01504
Std Dev 0.4424
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

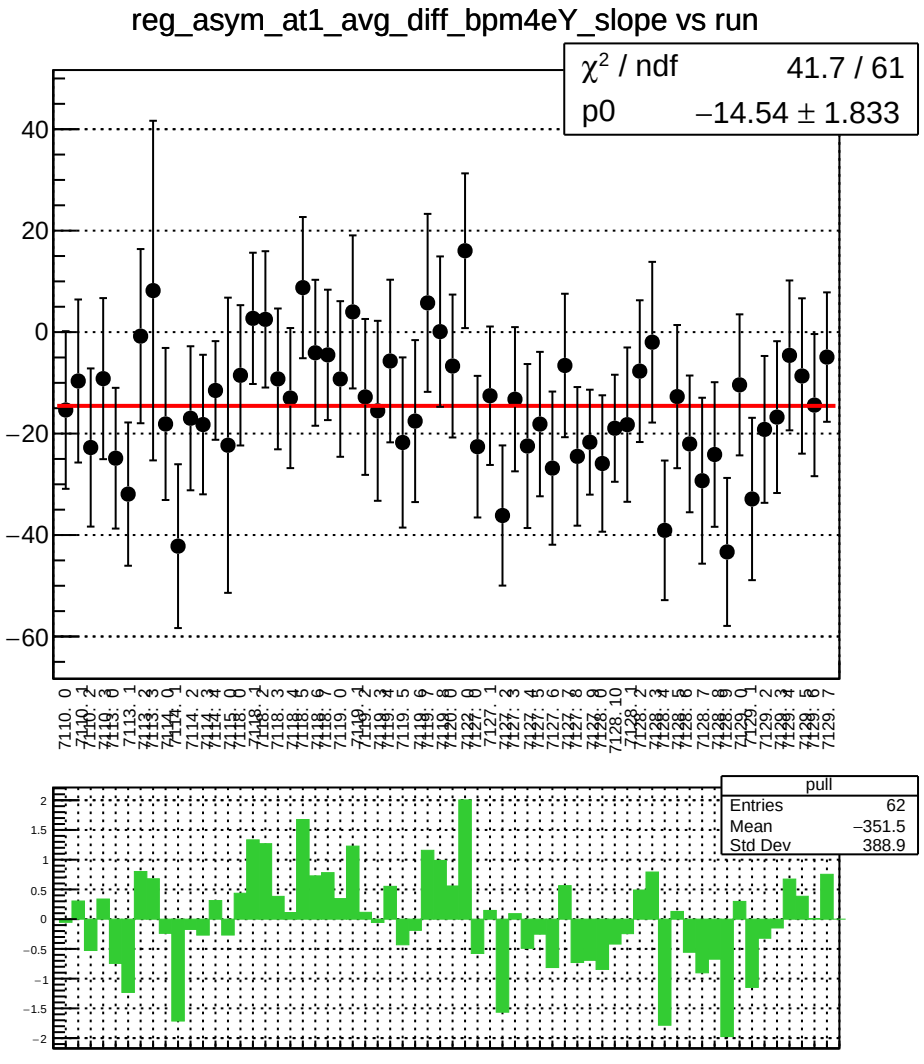

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 63.14 / 61
p0 −29.26 ± 2.022
pull
Entries 62
Mean 102.4
Std Dev 70.67

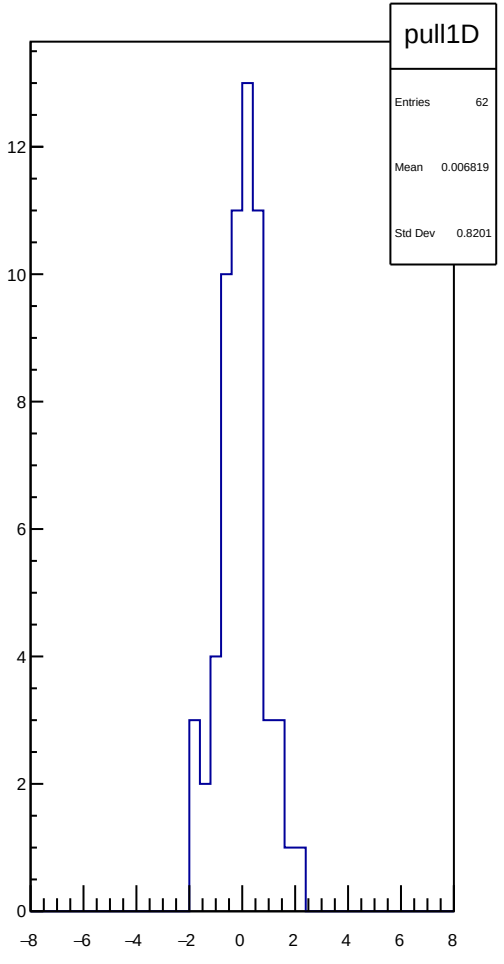

pull1D
Entries 62
Mean −0.07052
Std Dev 1.007

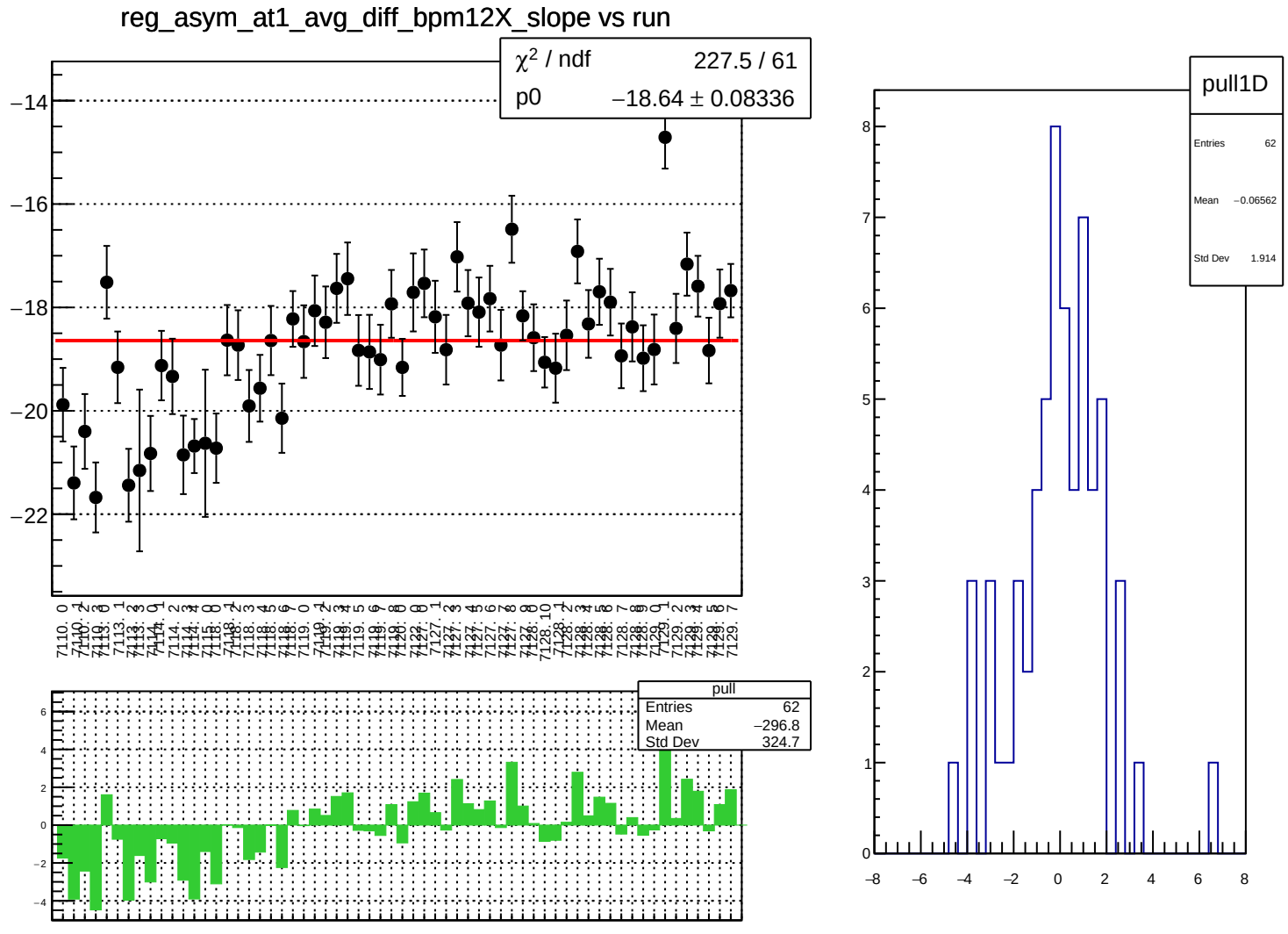

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.81 / 61
p0 7.853 ± 1.735
pull
Entries 62
Mean 178.2
Std Dev 116.5

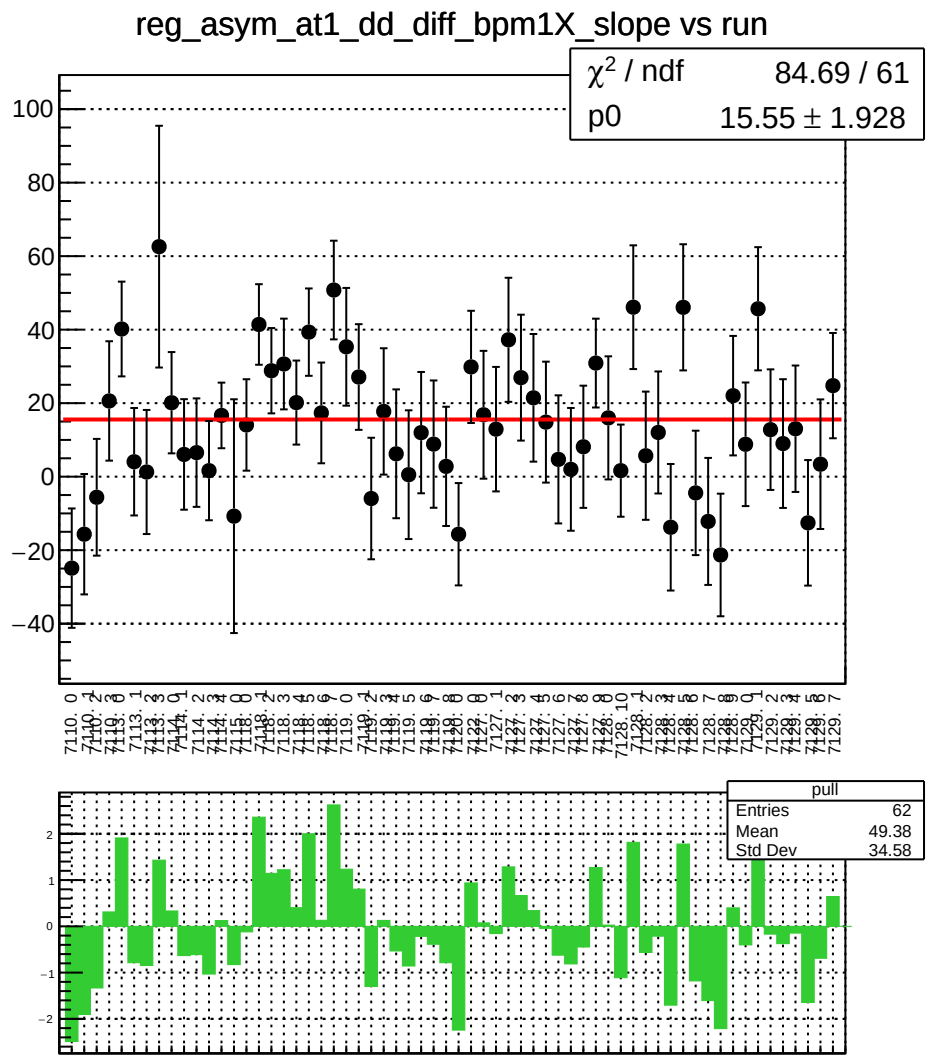

pull1D
Entries 62
Mean 0.004161
Std Dev 0.7492

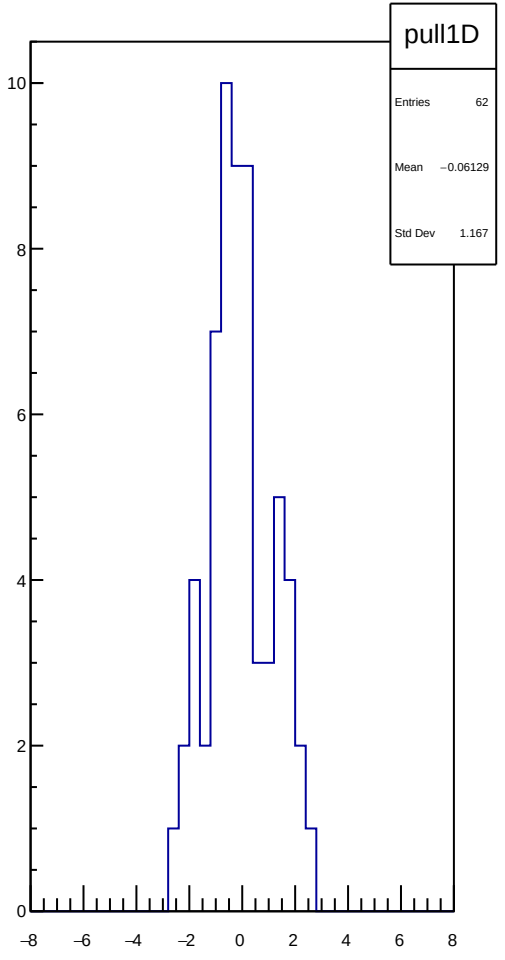

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 67.13 / 61
p0 19 ± 2.009
pull
Entries 62
Mean 103.6
Std Dev 71.33
pull1D
Entries 62
Mean 0.07271
Std Dev 1.038

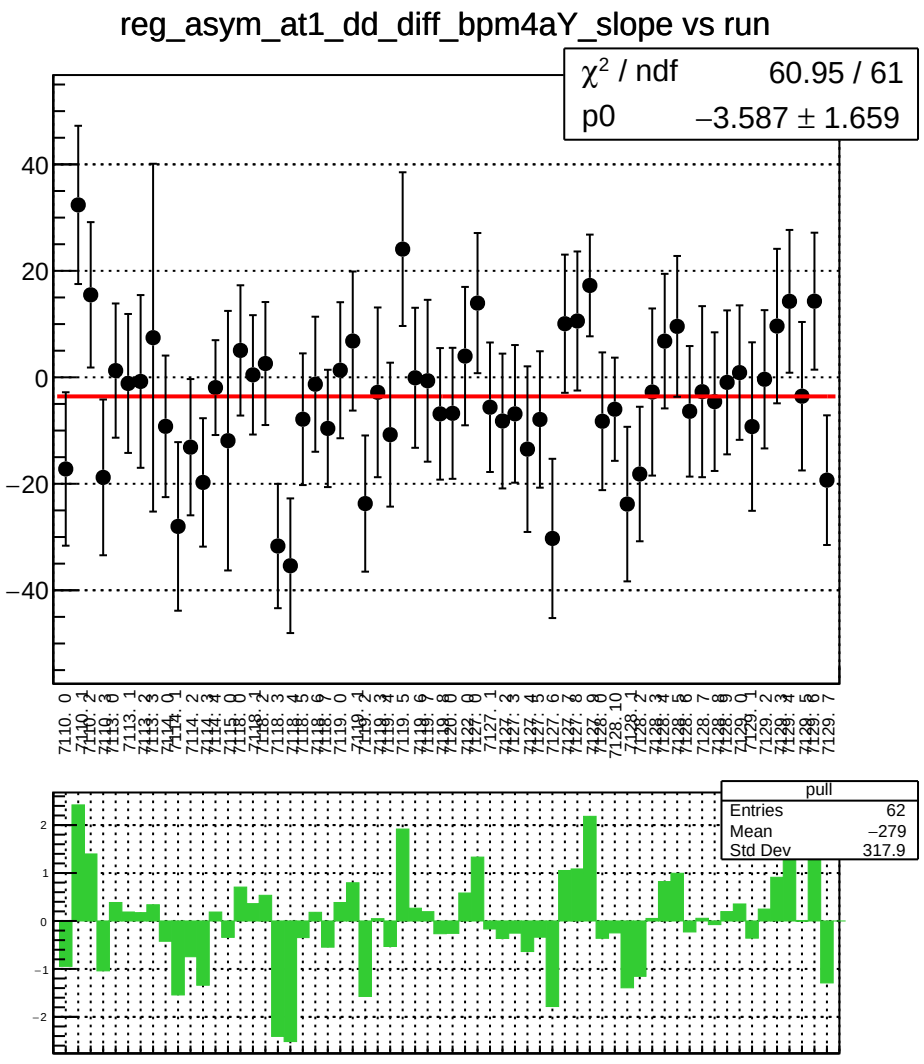

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.7 / 61
p0 −14.54 ± 1.833
pull
Entries 62
Mean −351.5
Std Dev 388.9

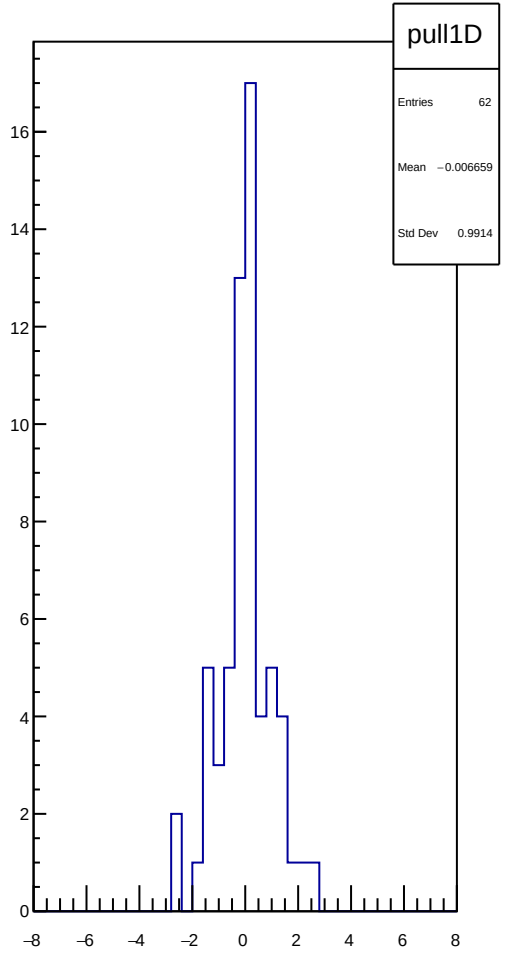

pull1D
Entries 62
Mean 0.006819
Std Dev 0.8201

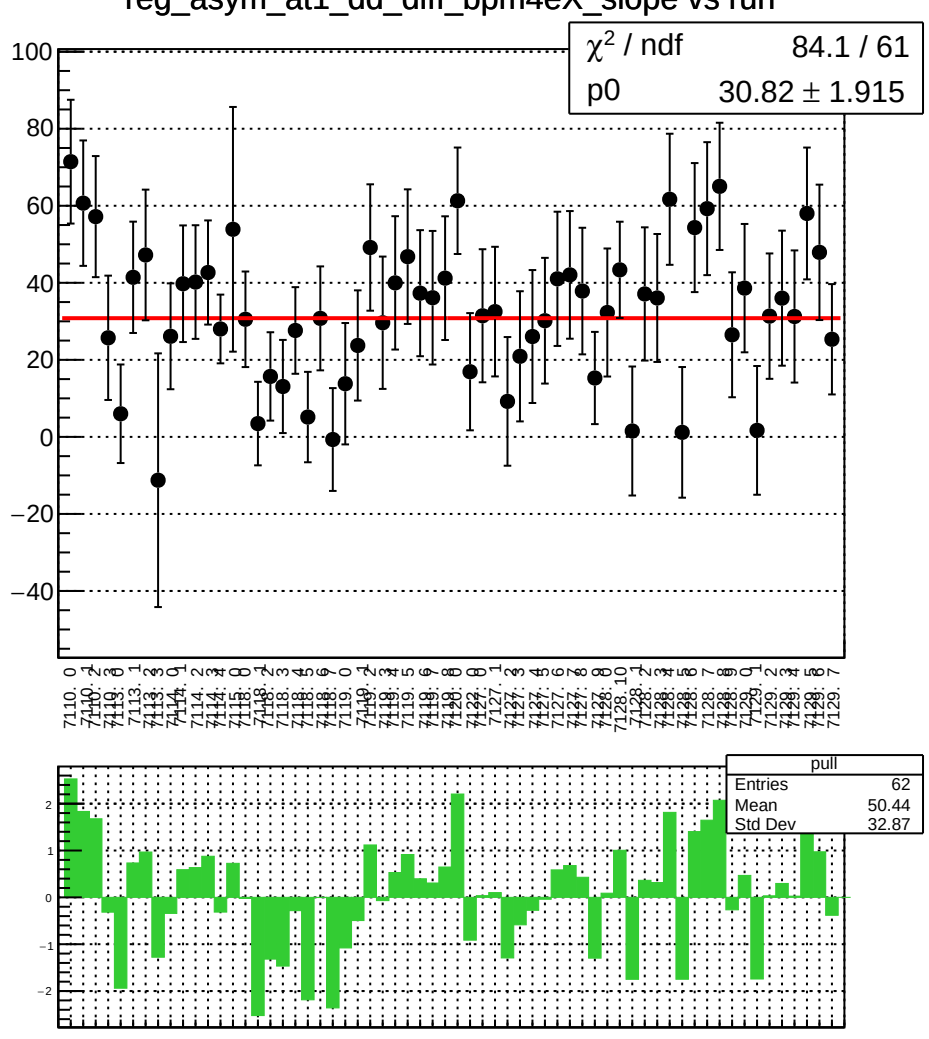

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 227.5 / 61
p0 −18.64 ± 0.08336
pull
Entries 62
Mean −296.8
Std Dev 324.7
pull1D
Entries 62
Mean −0.06562
Std Dev 1.914

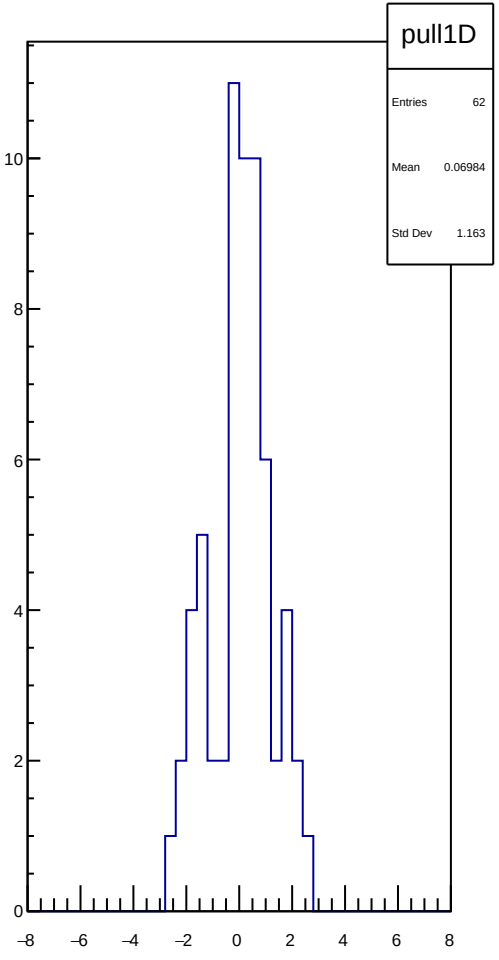

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 84.69 / 61
p0 15.55 ± 1.928
pull
Entries 62
Mean 49.38
Std Dev 34.58

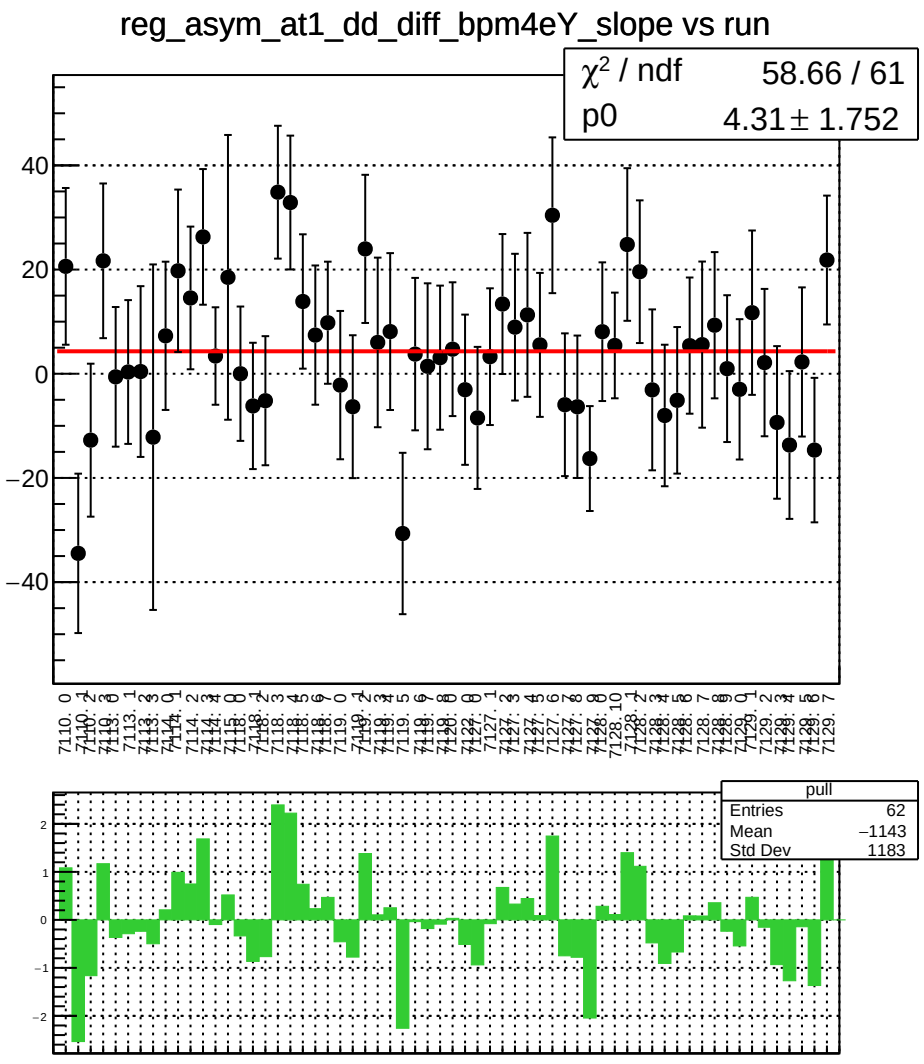

pull1D
Entries 62
Mean −0.06129
Std Dev 1.167

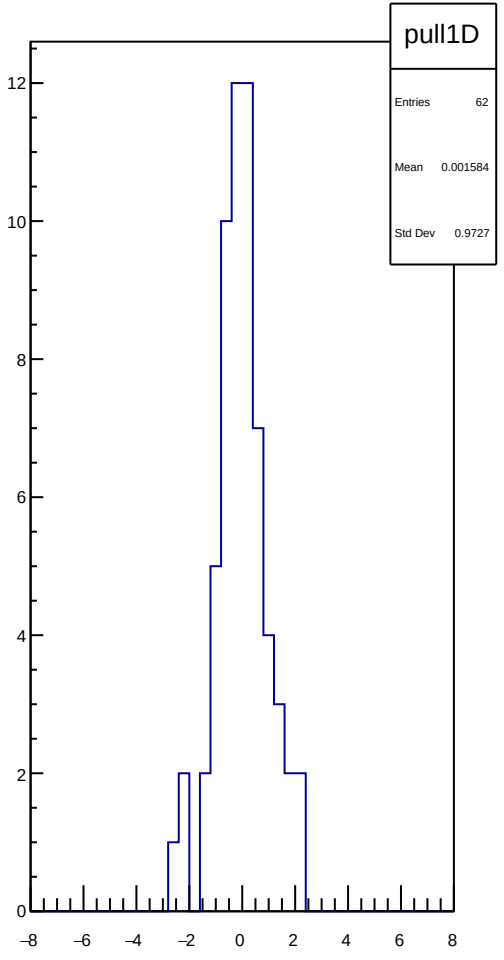

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.95 / 61
p0 −3.587 ± 1.659
40
20
0
−20
−40
pull
Entries 62
Mean −279
Std Dev 317.9
2
1
0
−1
−2

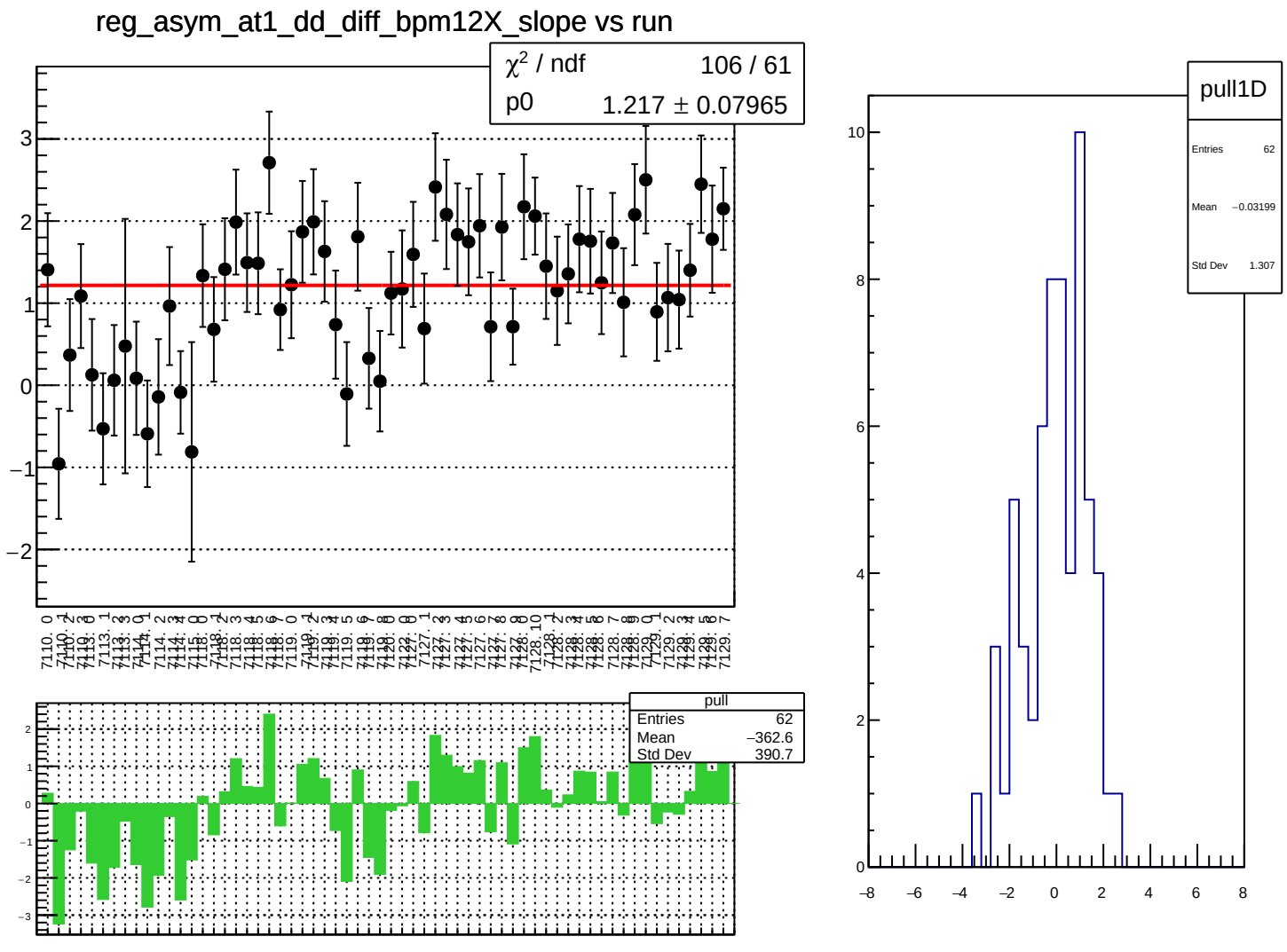

pull1D
Entries 62
Mean −0.006659
Std Dev 0.9914
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

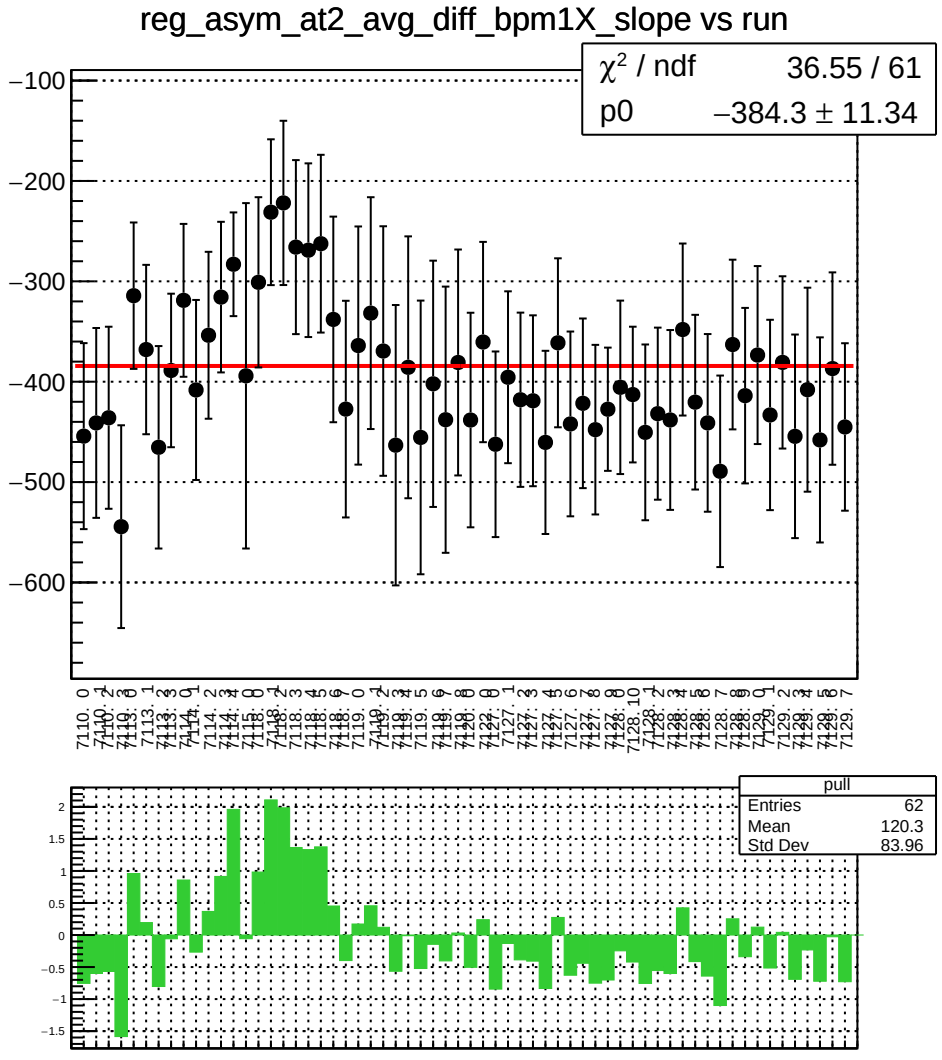

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 84.1 / 61
p0 30.82 ± 1.915
pull
Entries 62
Mean 50.44
Std Dev 32.87

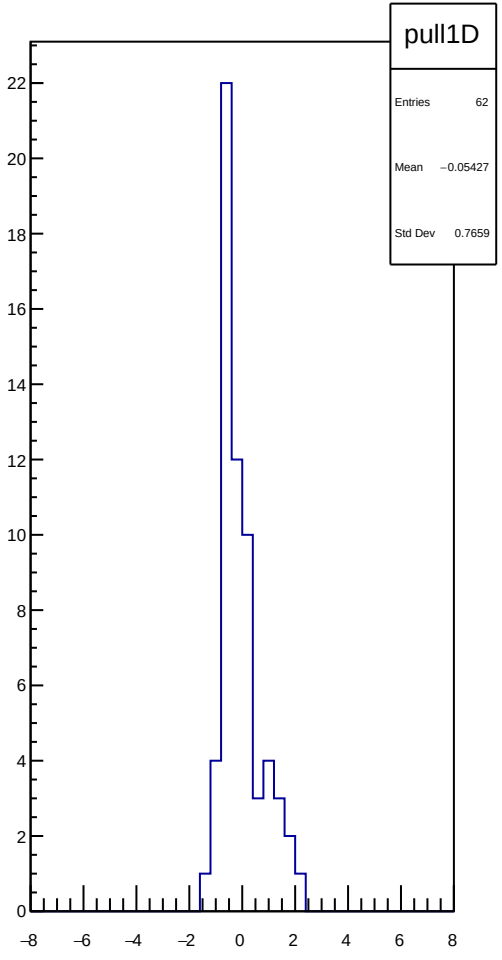

pull1D
Entries 62
Mean 0.06984
Std Dev 1.163

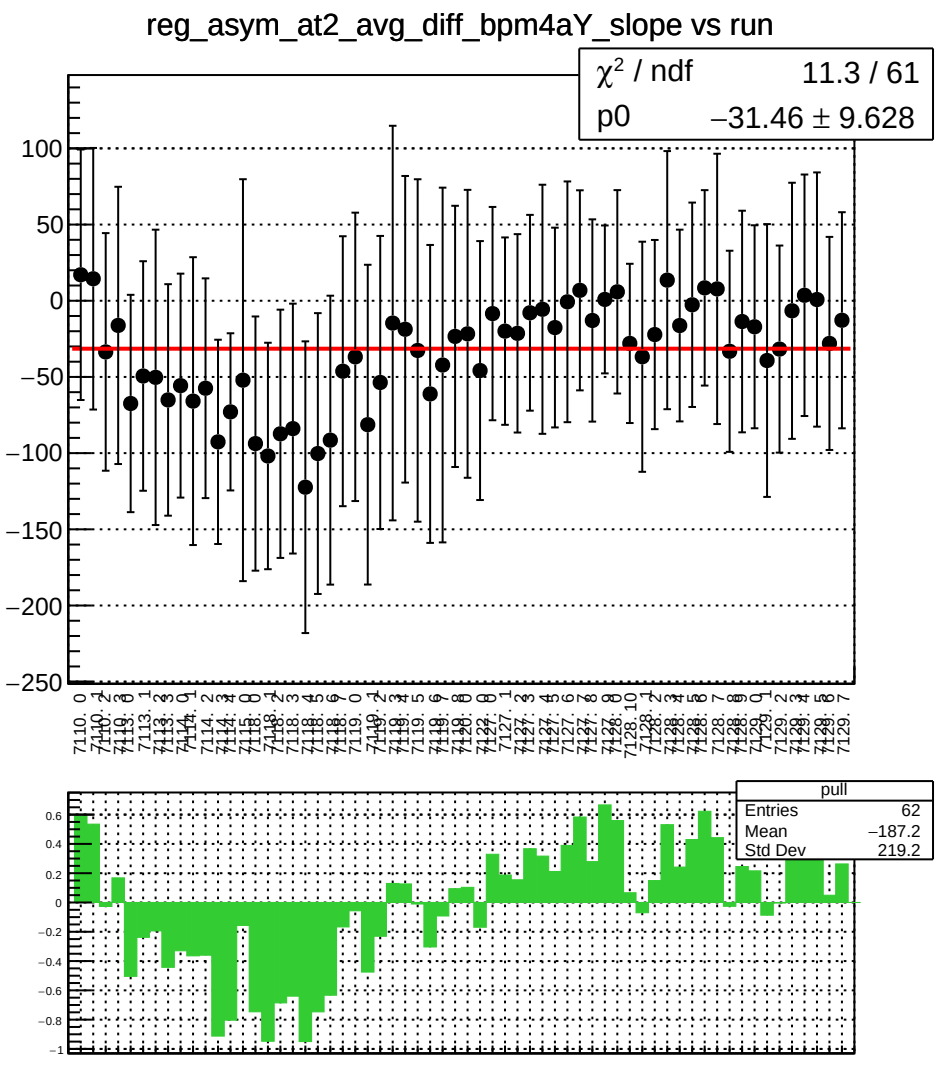

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.66 / 61
p0 4.31 ± 1.752
pull
Entries 62
Mean −1143
Std Dev 1183

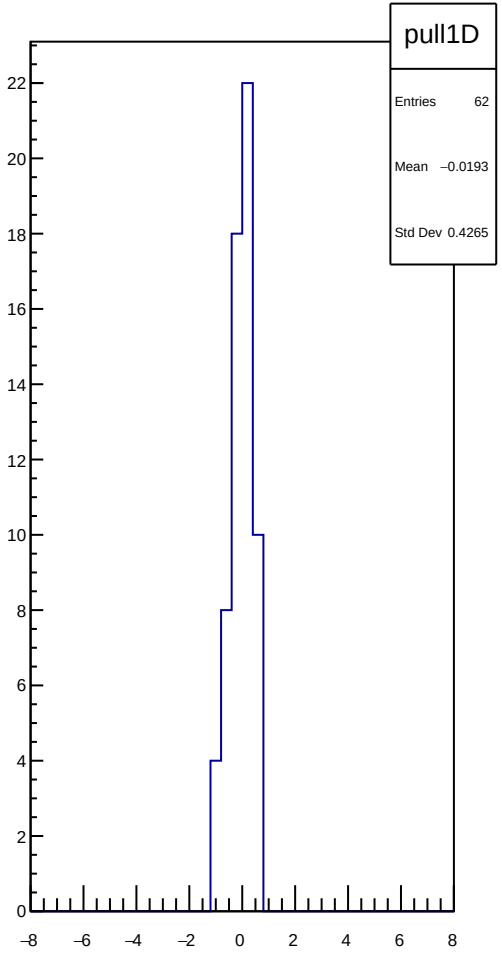

pull1D
Entries 62
Mean 0.001584
Std Dev 0.9727

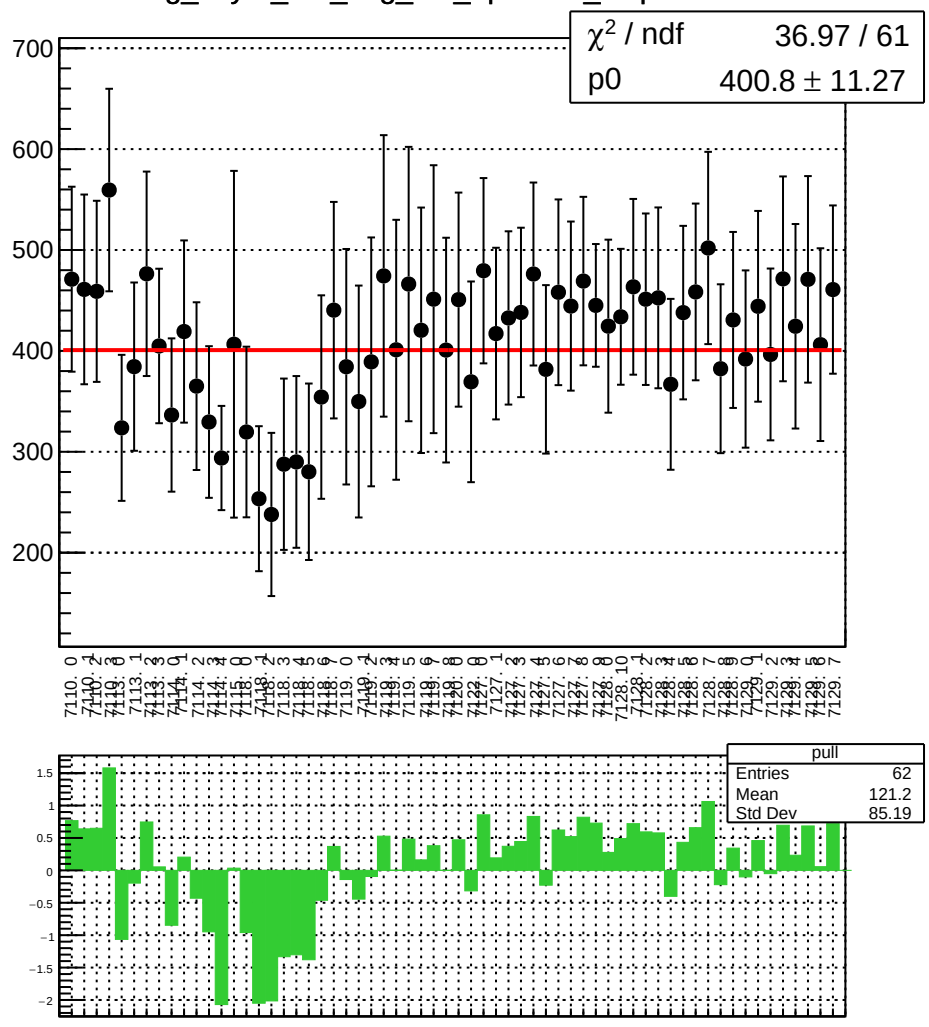

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 106 / 61
p0 1.217 ± 0.07965
pull
Entries 62
Mean −362.6
Std Dev 390.7
pull1D
Entries 62
Mean −0.03199
Std Dev 1.307

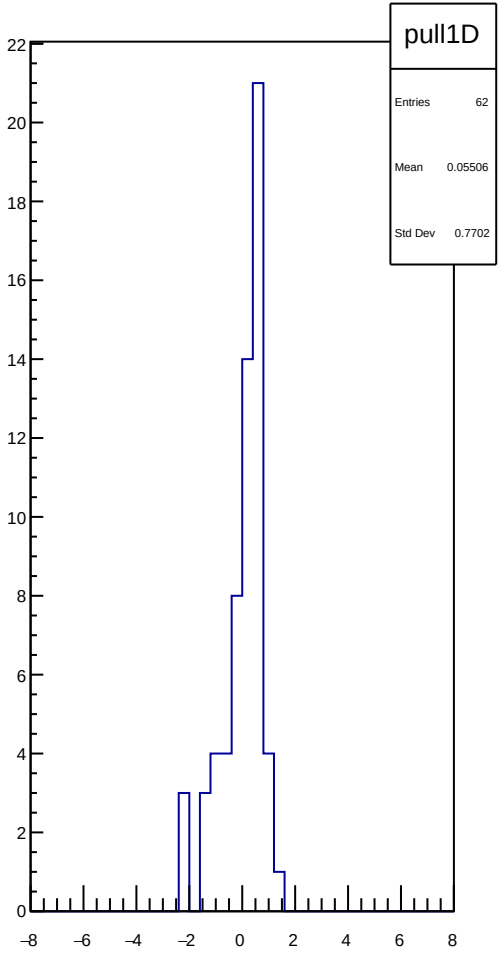

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 36.55 / 61
p0 −384.3 ± 11.34
pull
Entries 62
Mean 120.3
Std Dev 83.96

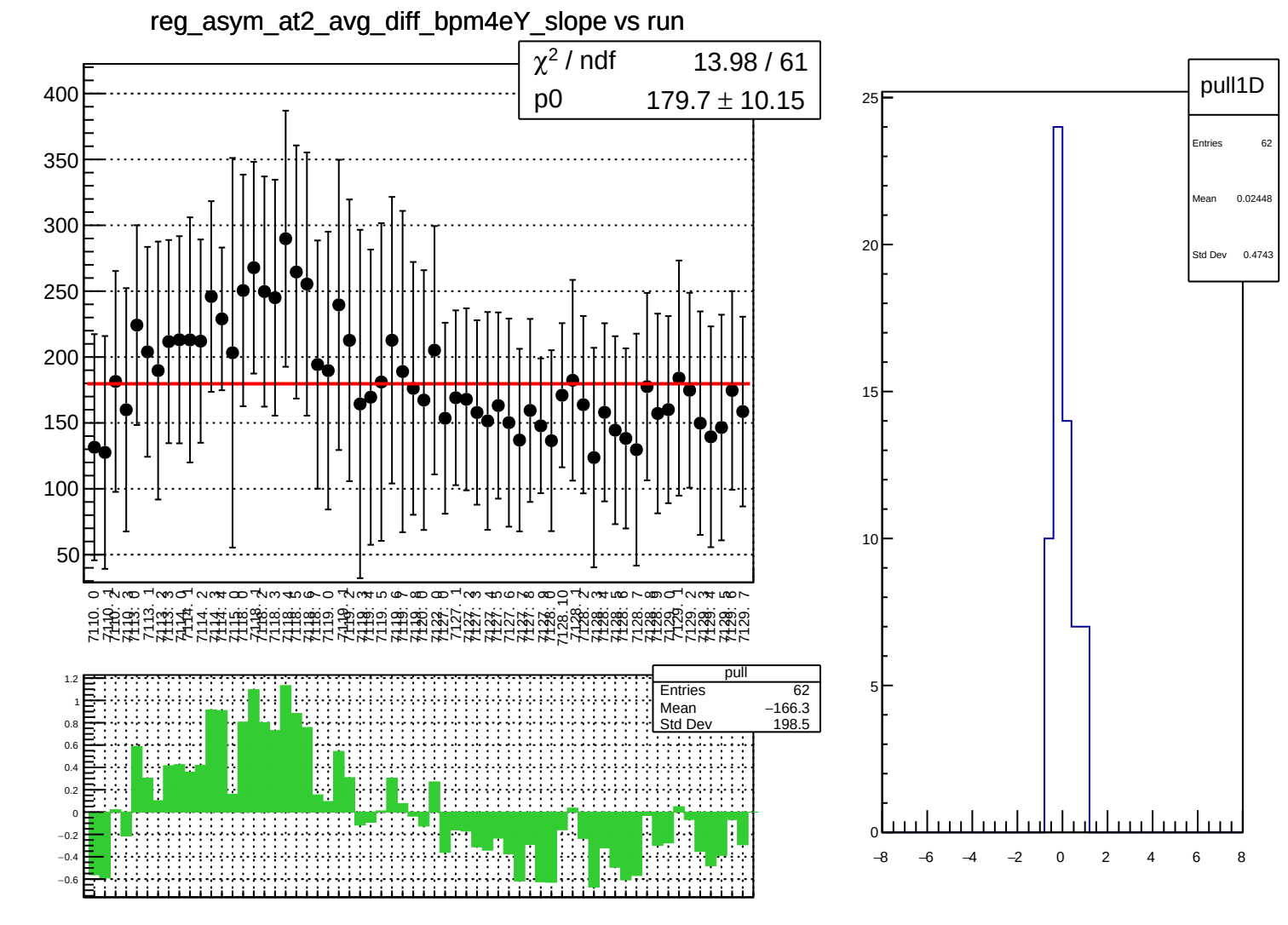

pull1D
Entries 62
Mean −0.05427
Std Dev 0.7659

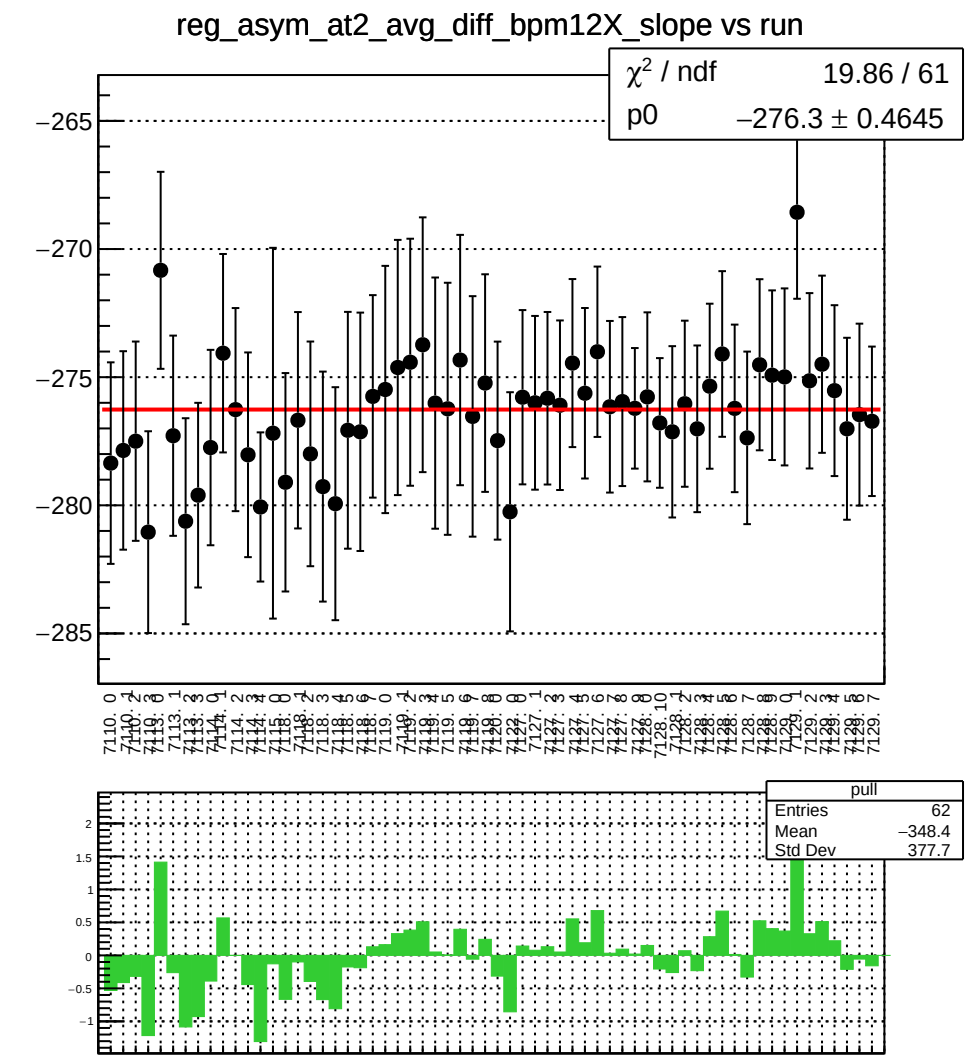

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.3 / 61
p0 −31.46 ± 9.628
pull
Entries 62
Mean −187.2
Std Dev 219.2

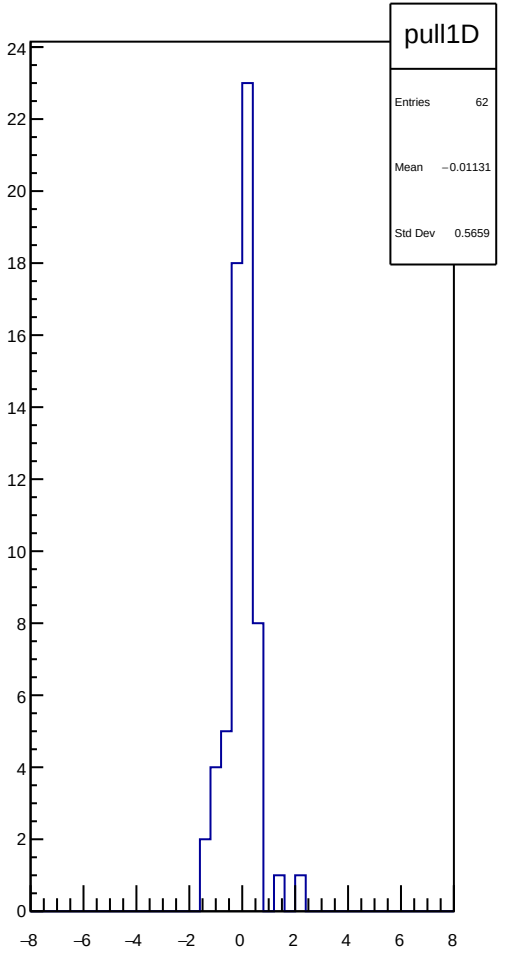

pull1D
Entries 62
Mean −0.0193
Std Dev 0.4265

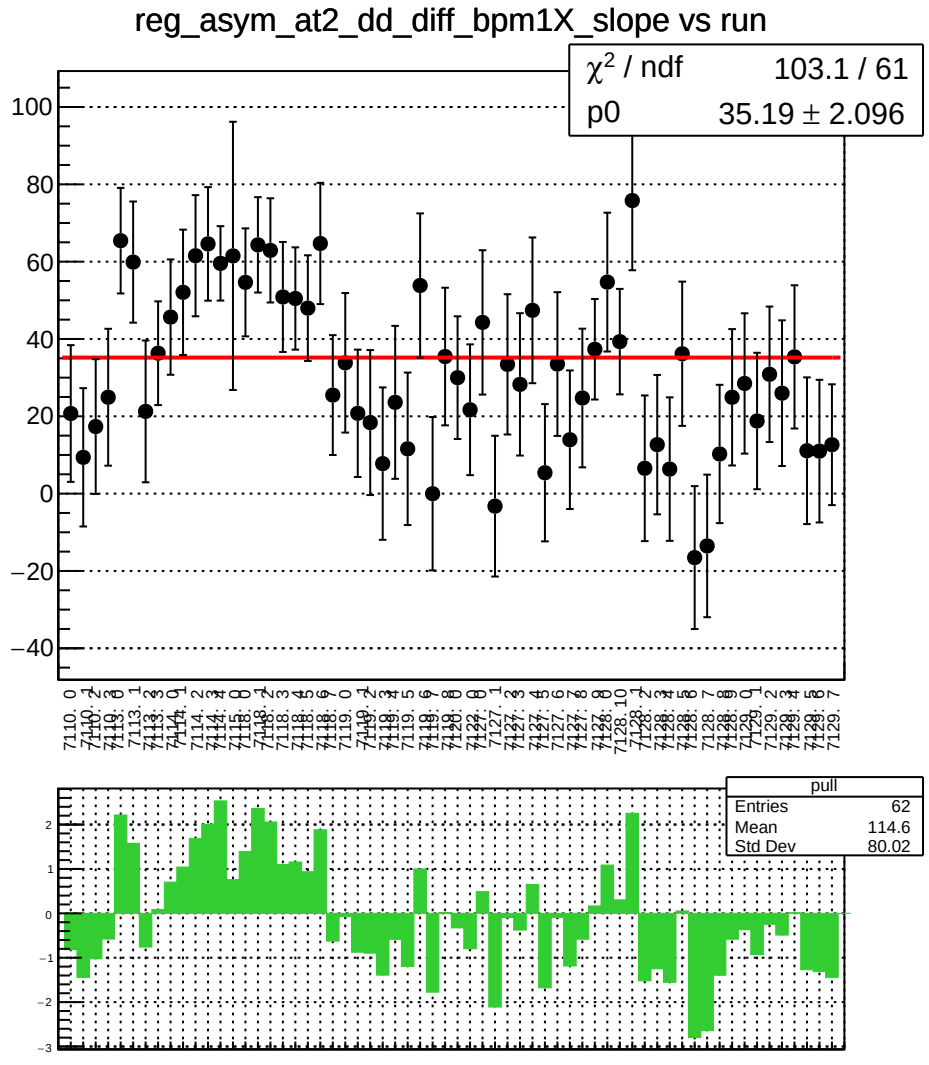

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.97 / 61
p0 400.8 ± 11.27
pull
Entries 62
Mean 121.2
Std Dev 85.19

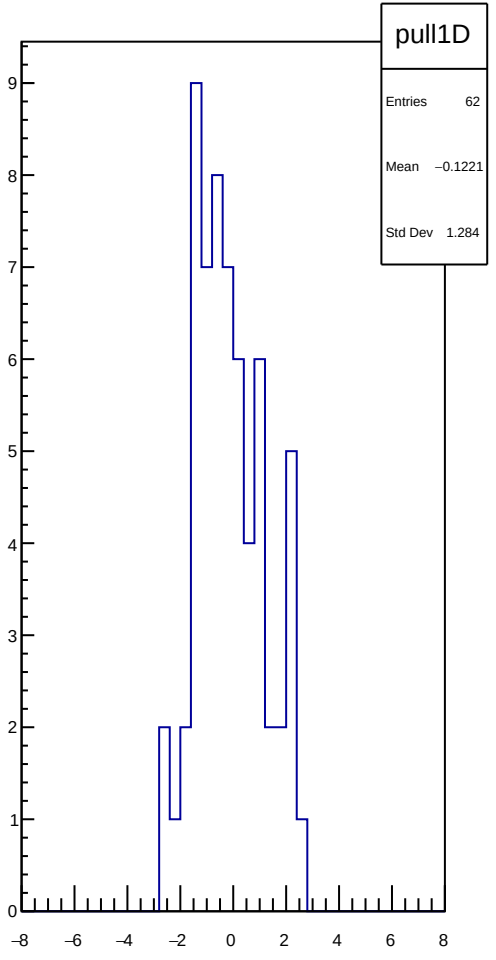

pull1D
Entries 62
Mean 0.05506
Std Dev 0.7702

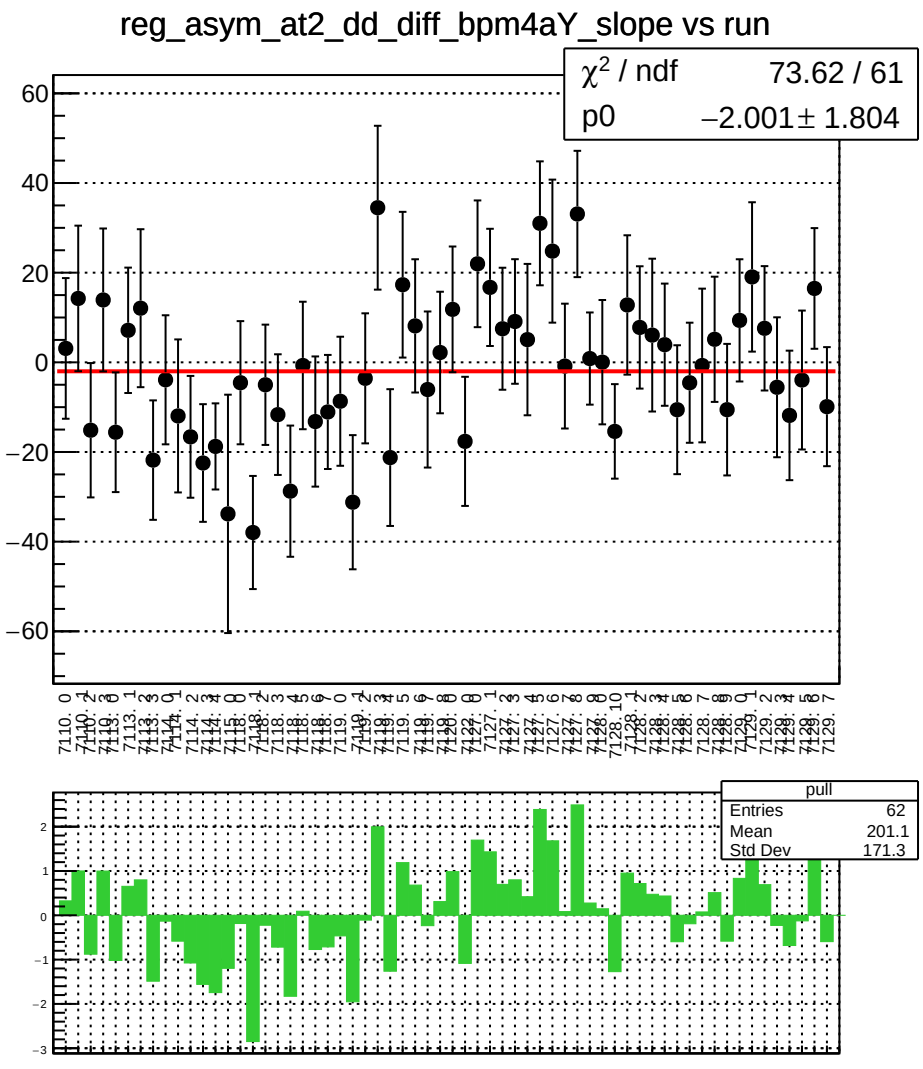

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.98 / 61
p0 179.7 ± 10.15
pull
Entries 62
Mean −166.3
Std Dev 198.5
pull1D
Entries 62
Mean 0.02448
Std Dev 0.4743

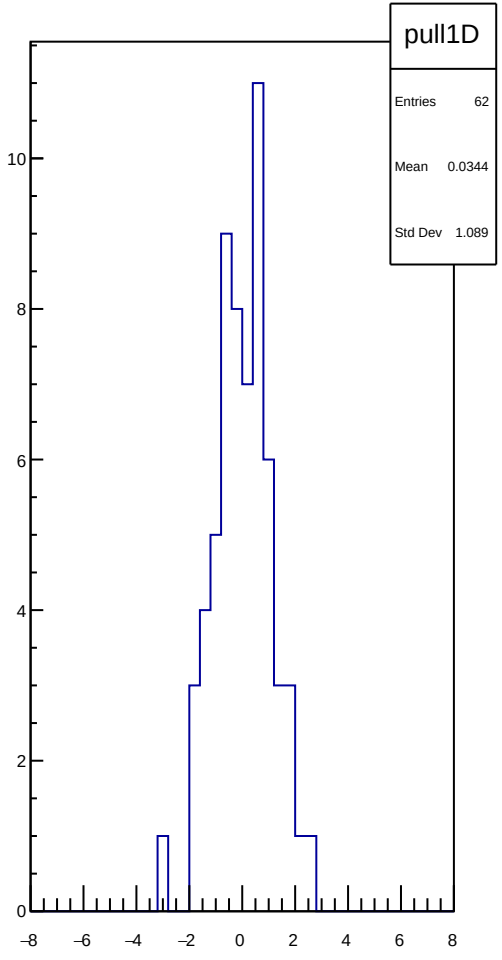

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 19.86 / 61
p0 −276.3 ± 0.4645
pull
Entries 62
Mean −348.4
Std Dev 377.7

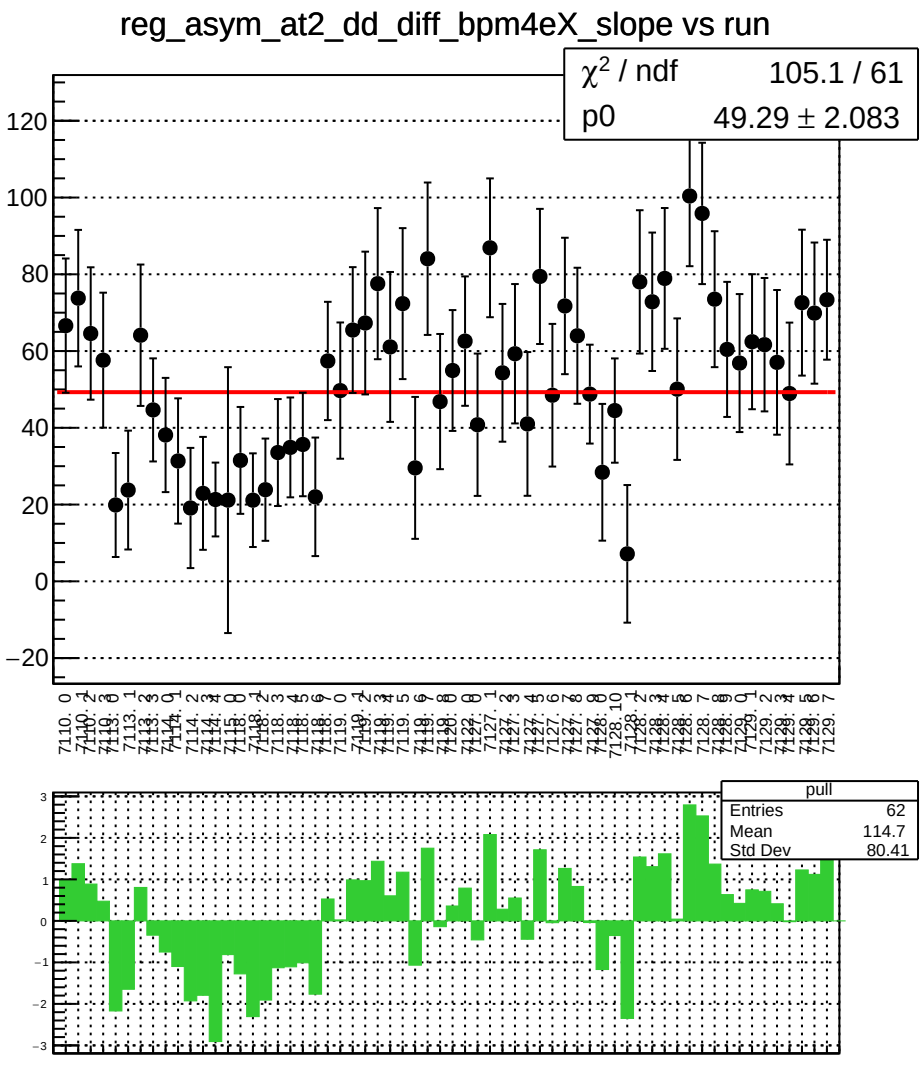

pull1D
Entries 62
Mean −0.01131
Std Dev 0.5659

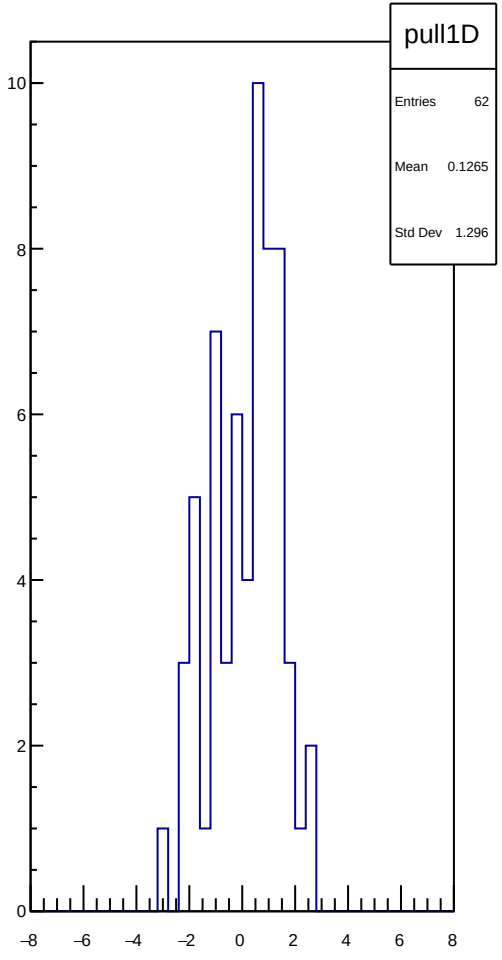

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 103.1 / 61
p0 35.19 ± 2.096
pull
Entries 62
Mean 114.6
Std Dev 80.02

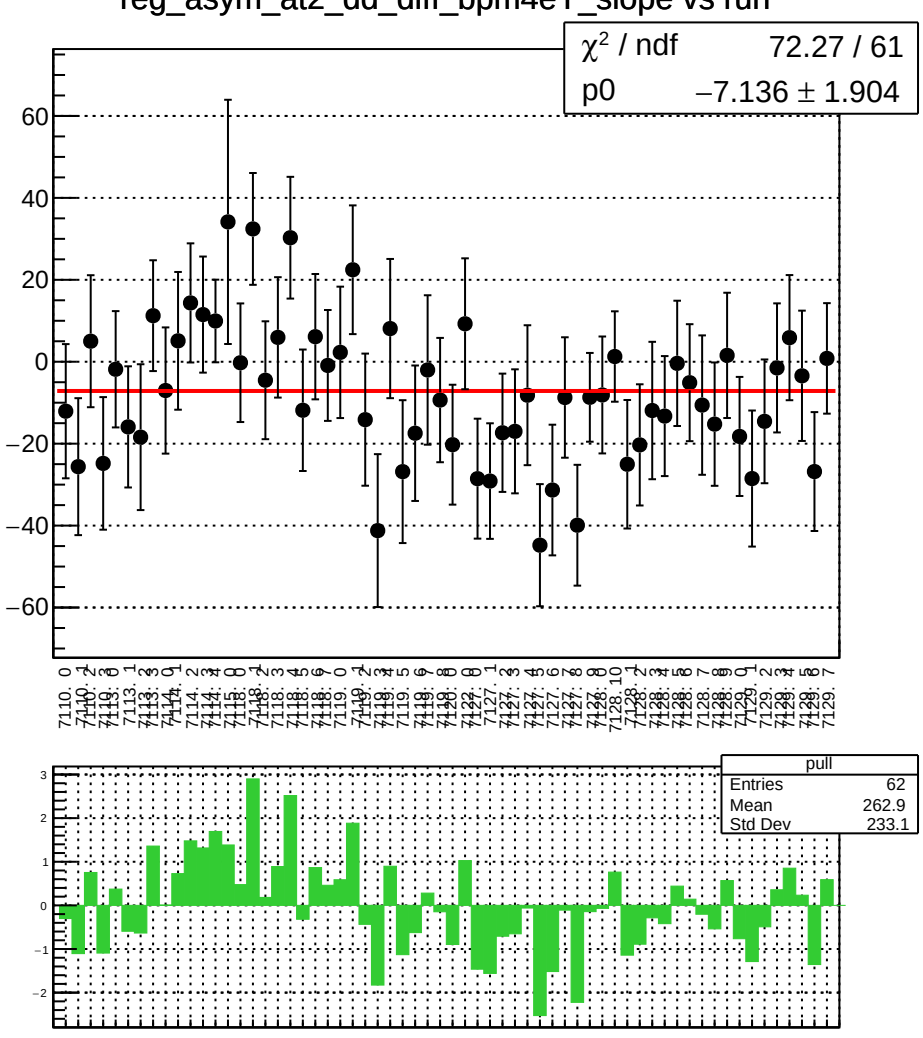

pull1D
Entries 62
Mean −0.1221
Std Dev 1.284

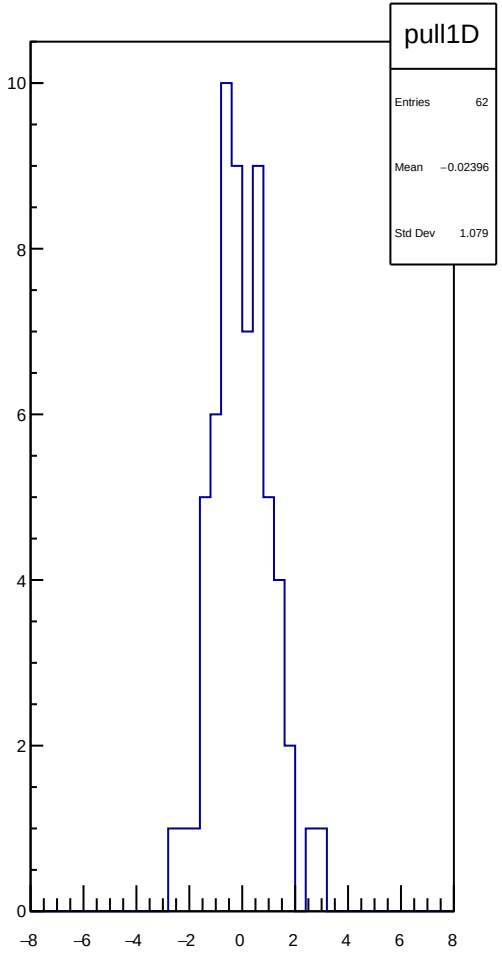

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.62 / 61
p0 −2.001± 1.804
pull
Entries 62
Mean 201.1
Std Dev 171.3

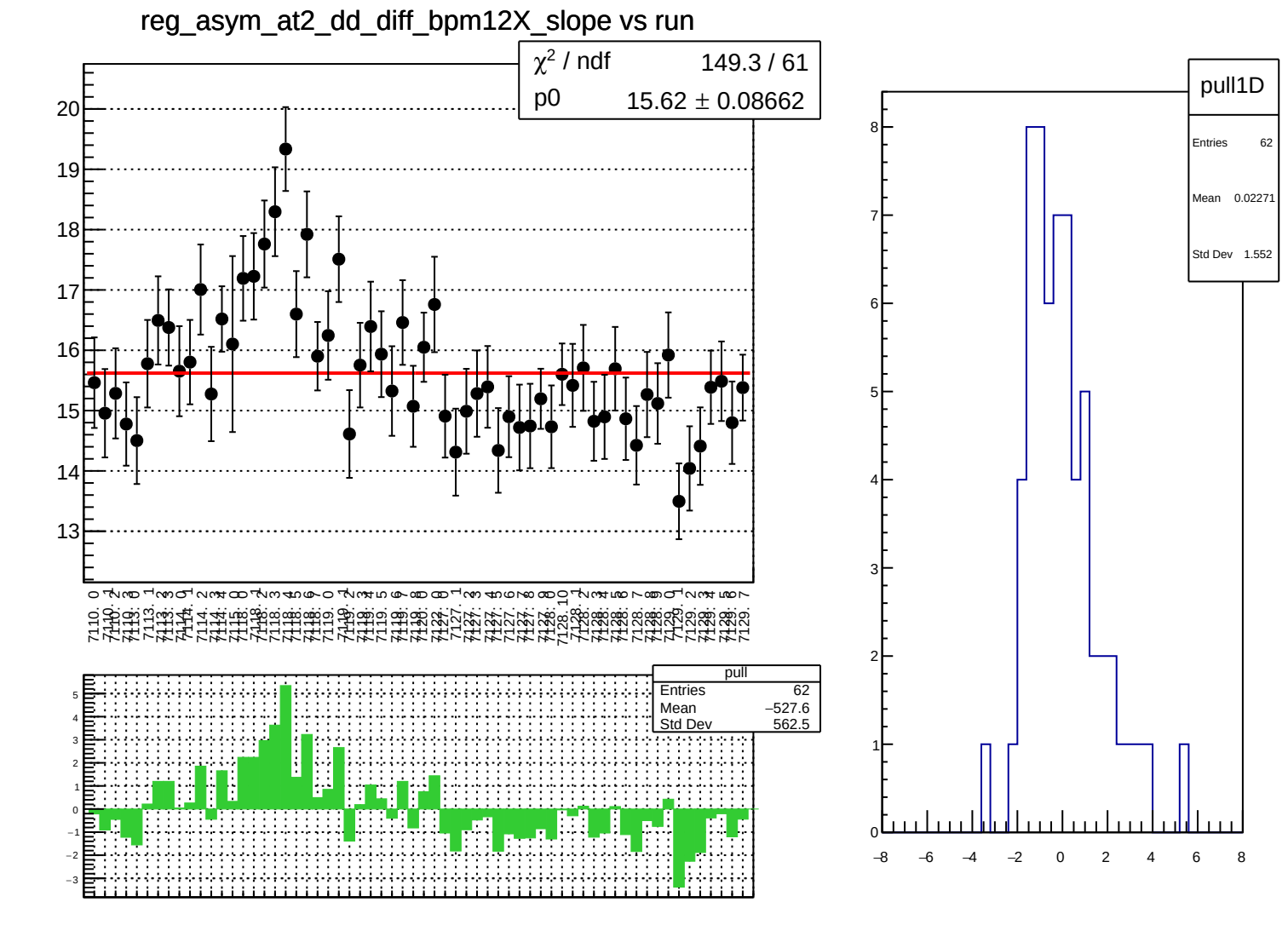

pull1D
Entries 62
Mean 0.0344
Std Dev 1.089

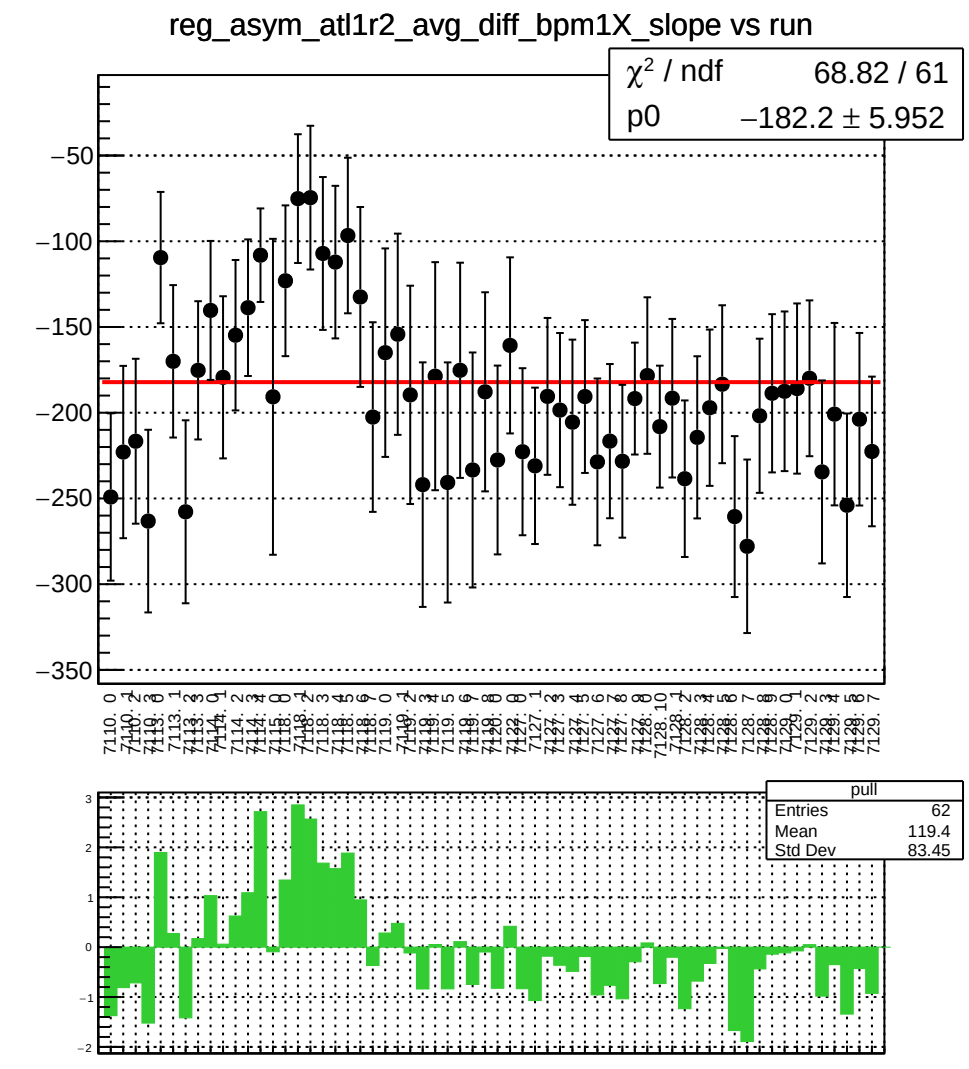

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 105.1 / 61
p0 49.29 ± 2.083
pull
Entries 62
Mean 114.7
Std Dev 80.41

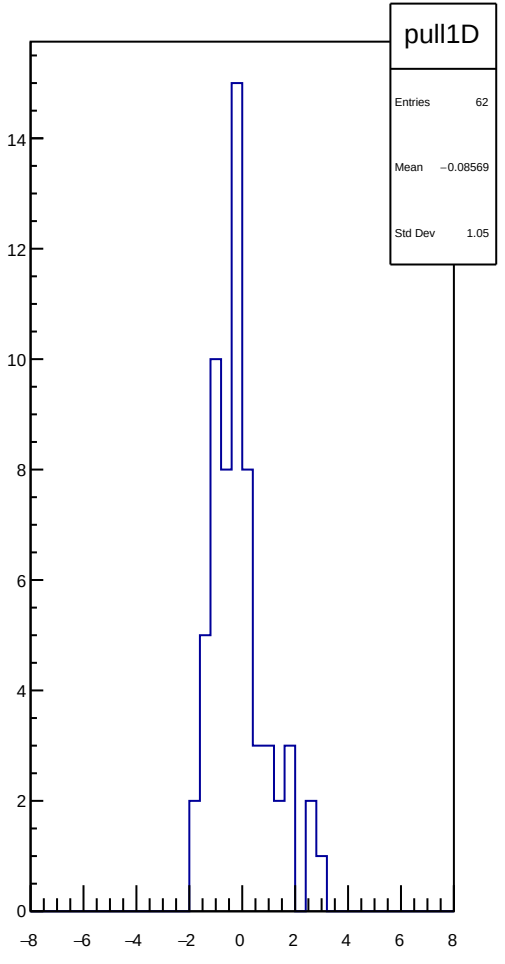

pull1D
Entries 62
Mean 0.1265
Std Dev 1.296

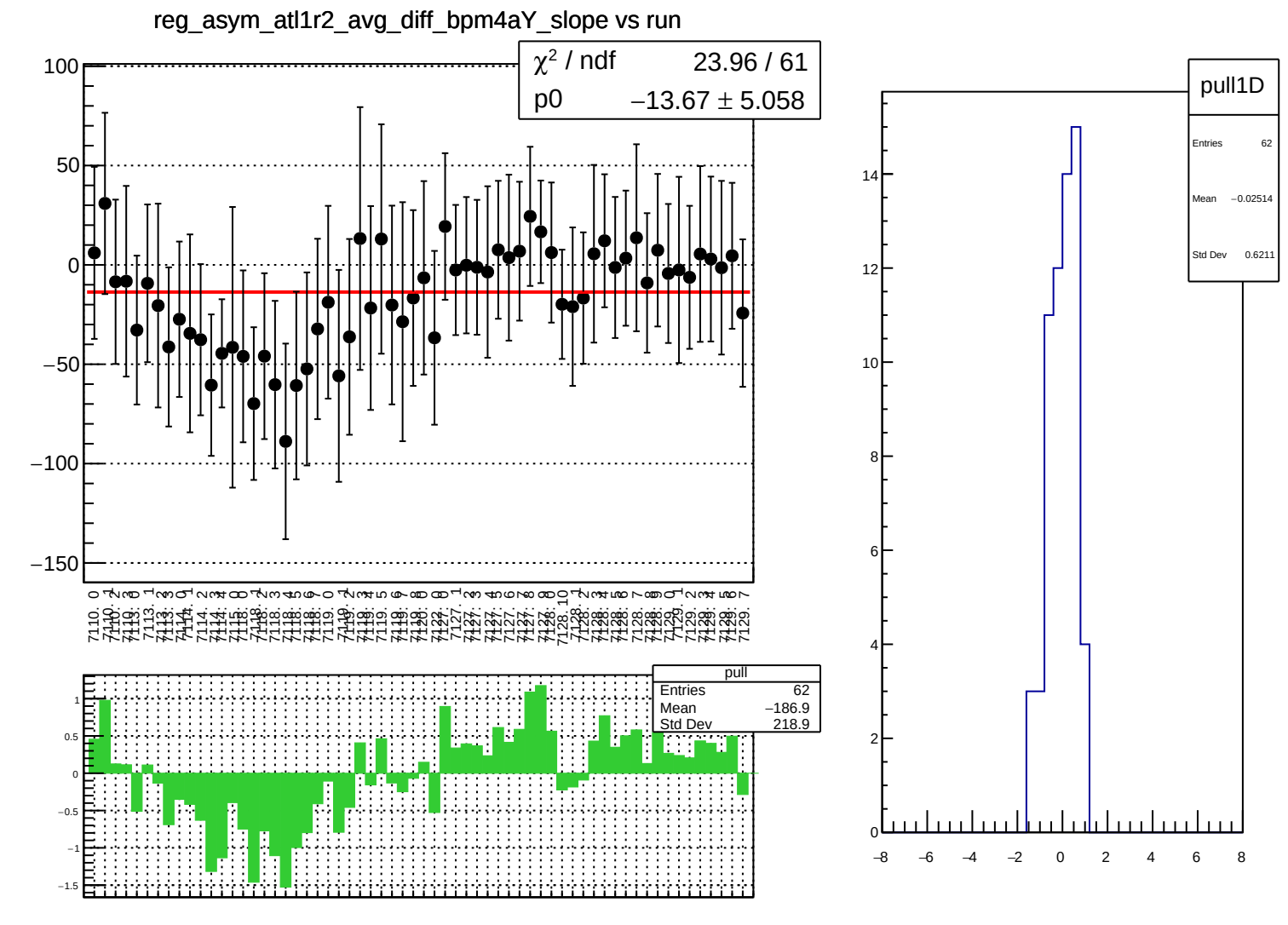

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.27 / 61
p0 −7.136 ± 1.904
pull
Entries 62
Mean 262.9
Std Dev 233.1

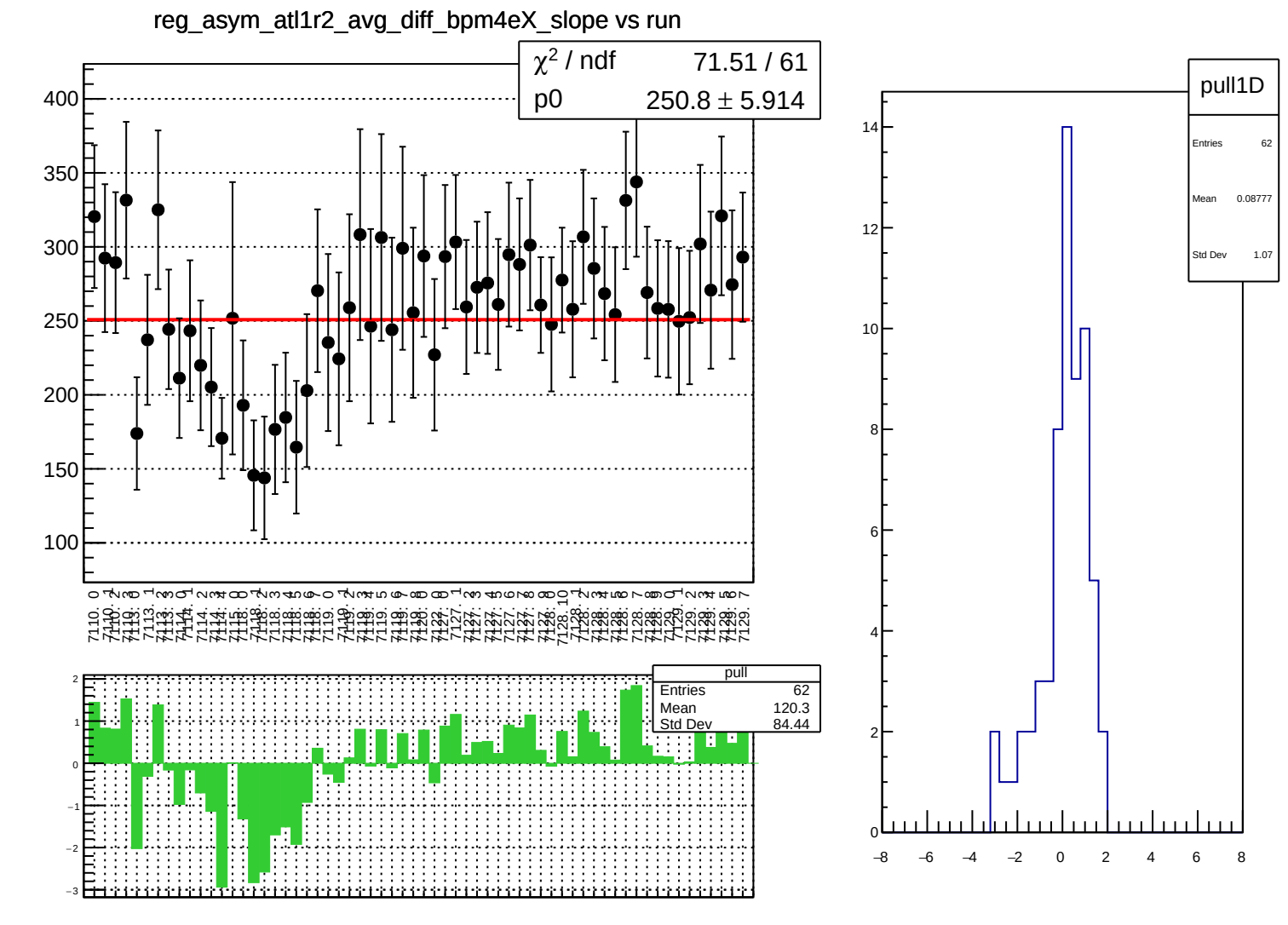

pull1D
Entries 62
Mean −0.02396
Std Dev 1.079

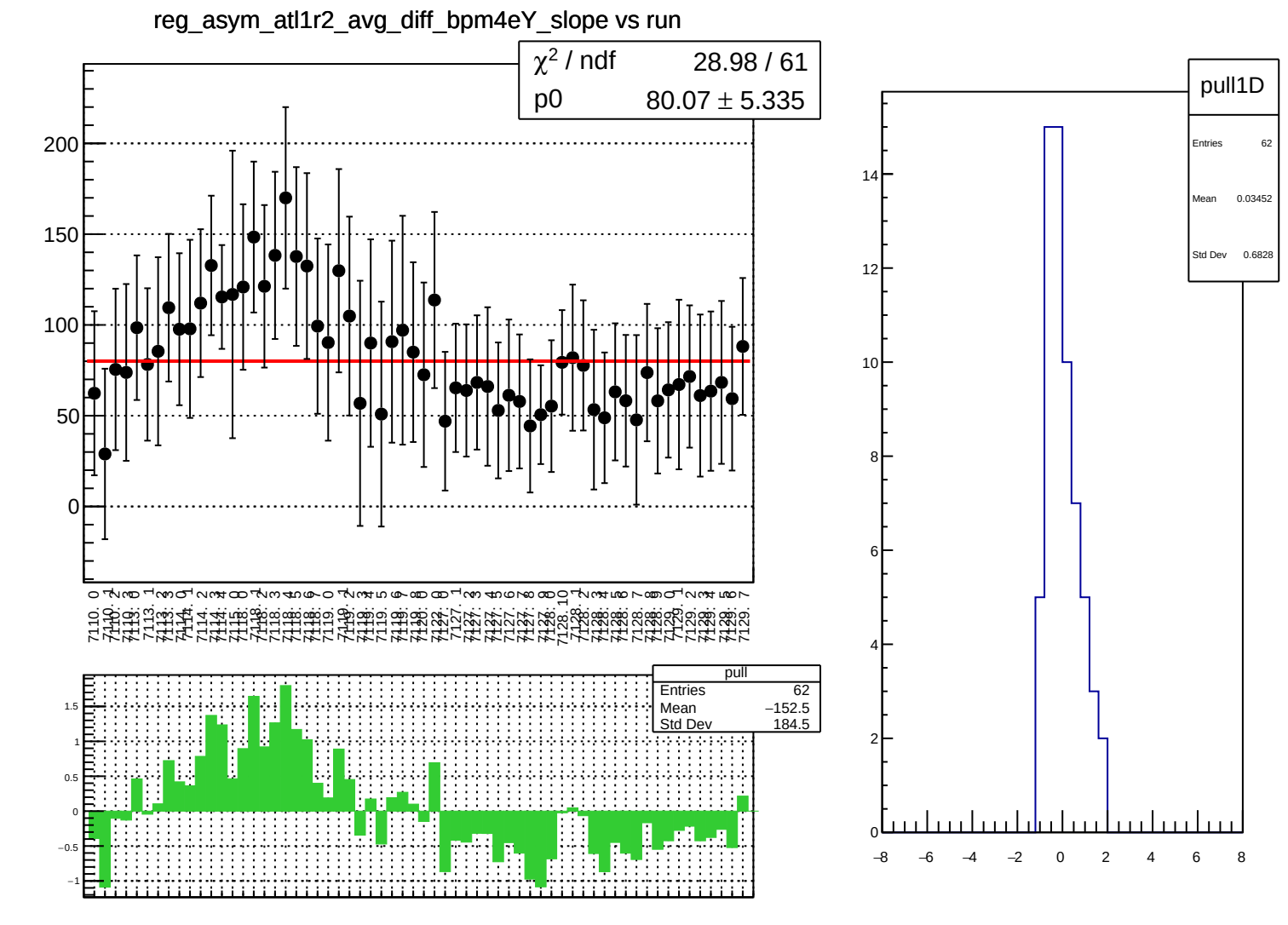

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 149.3 / 61
p0 15.62 ± 0.08662
pull
Entries 62
Mean −527.6
Std Dev 562.5
pull1D
Entries 62
Mean 0.02271
Std Dev 1.552

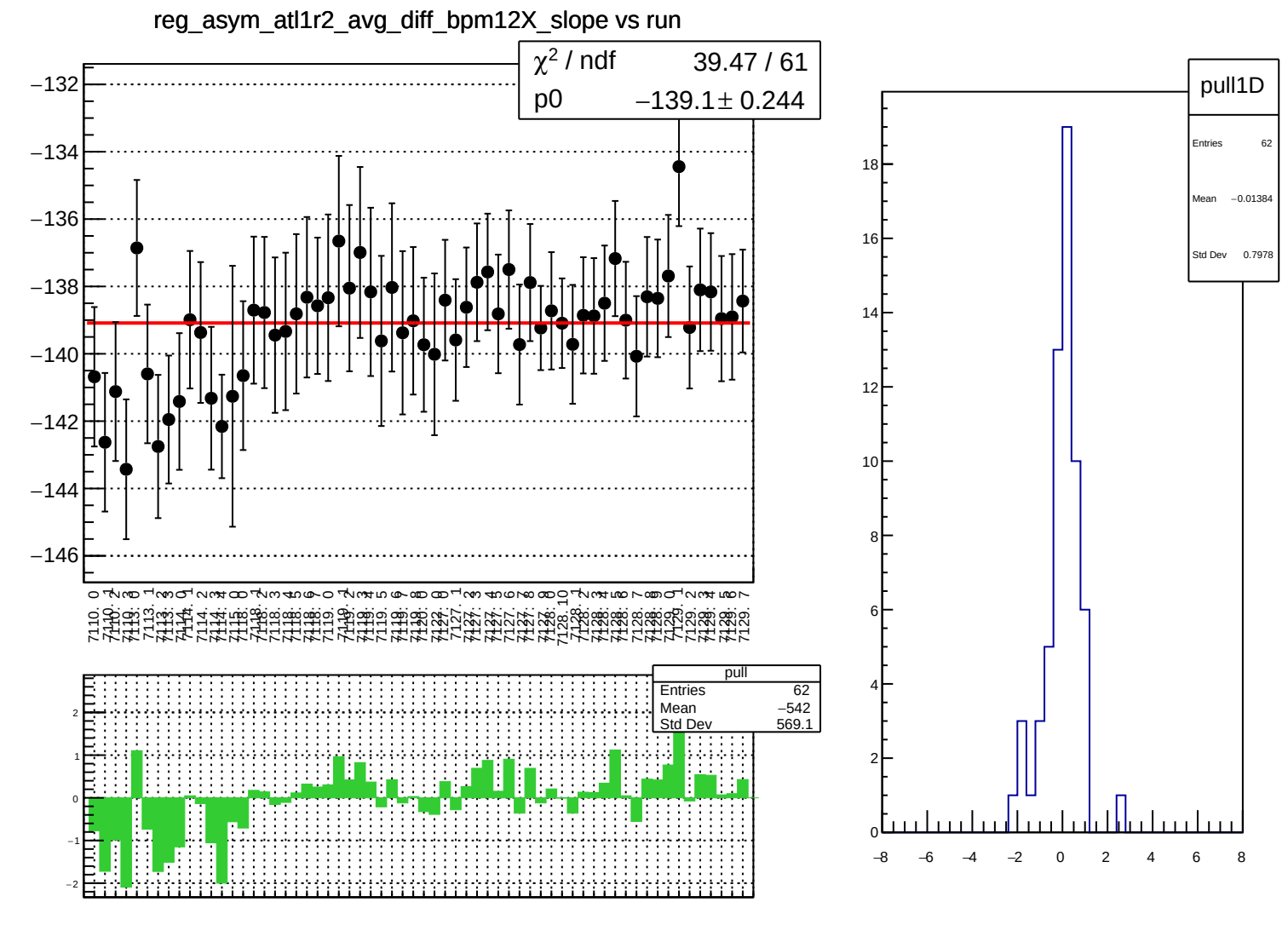

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 68.82 / 61
p0 −182.2 ± 5.952
pull
Entries 62
Mean 119.4
Std Dev 83.45

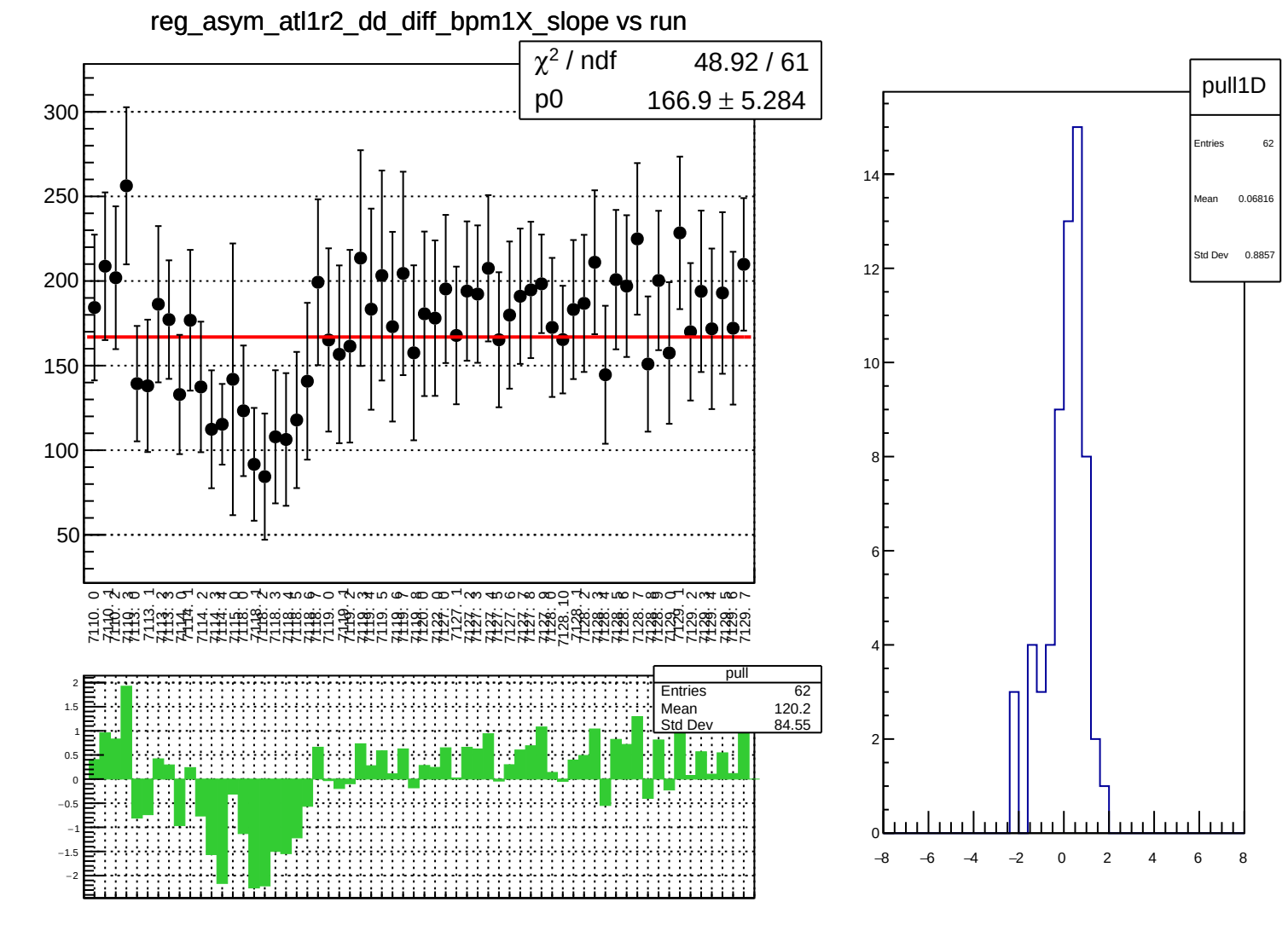

pull1D
Entries 62
Mean −0.08569
Std Dev 1.05

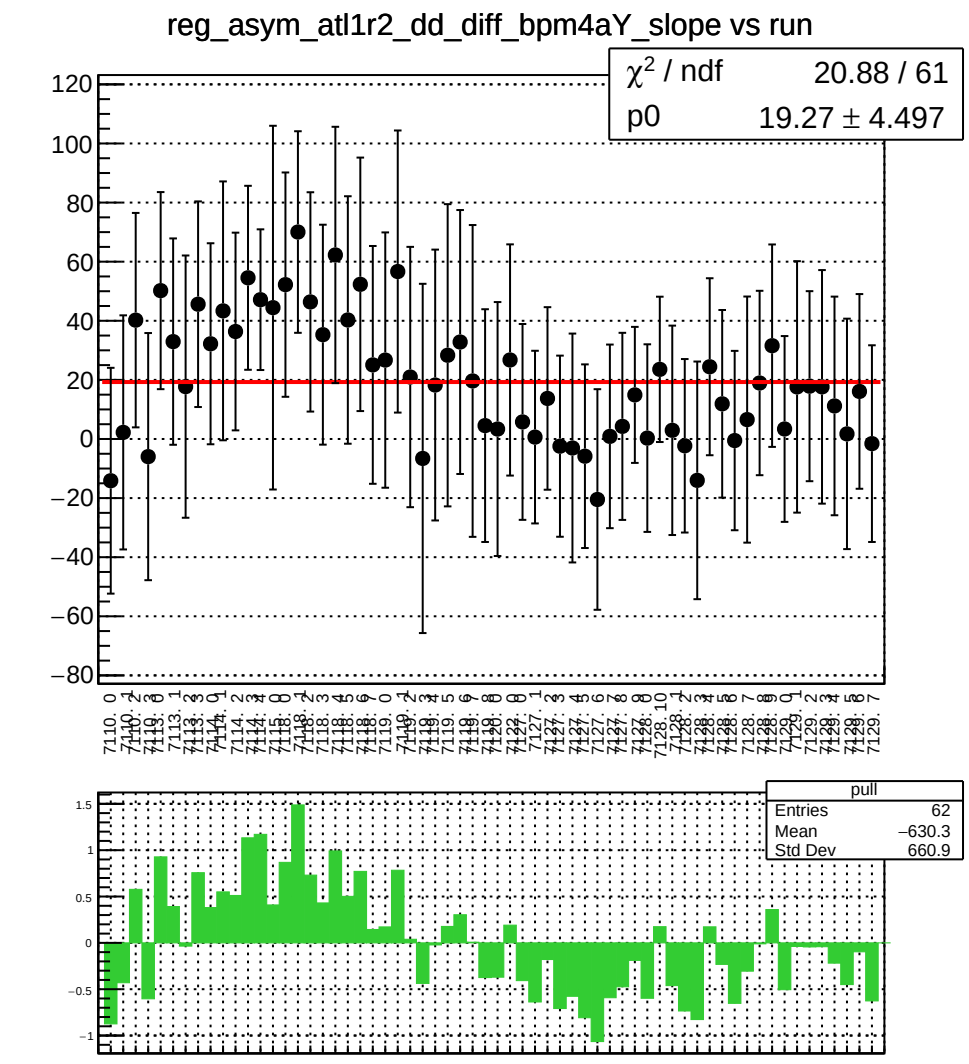

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.96 / 61
p0 −13.67 ± 5.058
pull
Entries 62
Mean −186.9
Std Dev 218.9
pull1D
Entries 62
Mean −0.02514
Std Dev 0.6211

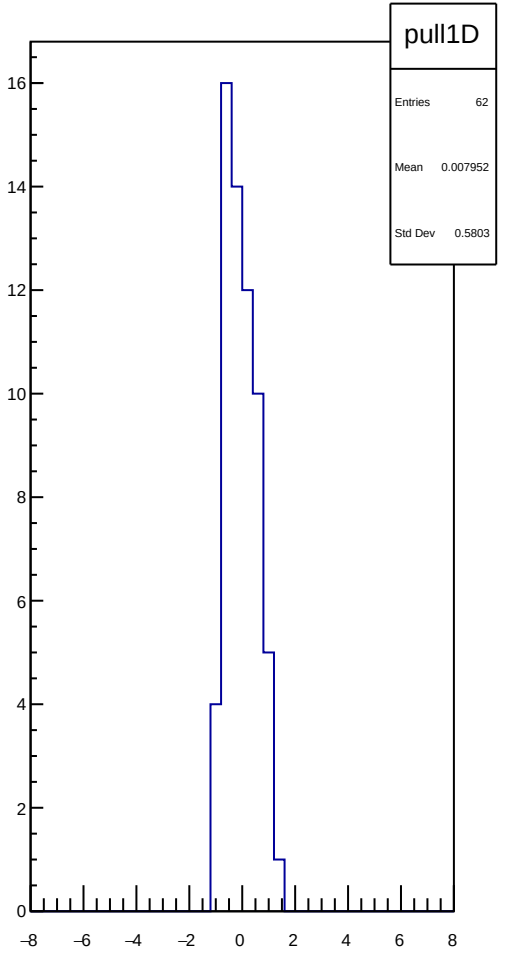

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 71.51 / 61
p0 250.8 ± 5.914
pull
Entries 62
Mean 120.3
Std Dev 84.44
pull1D
Entries 62
Mean 0.08777
Std Dev 1.07

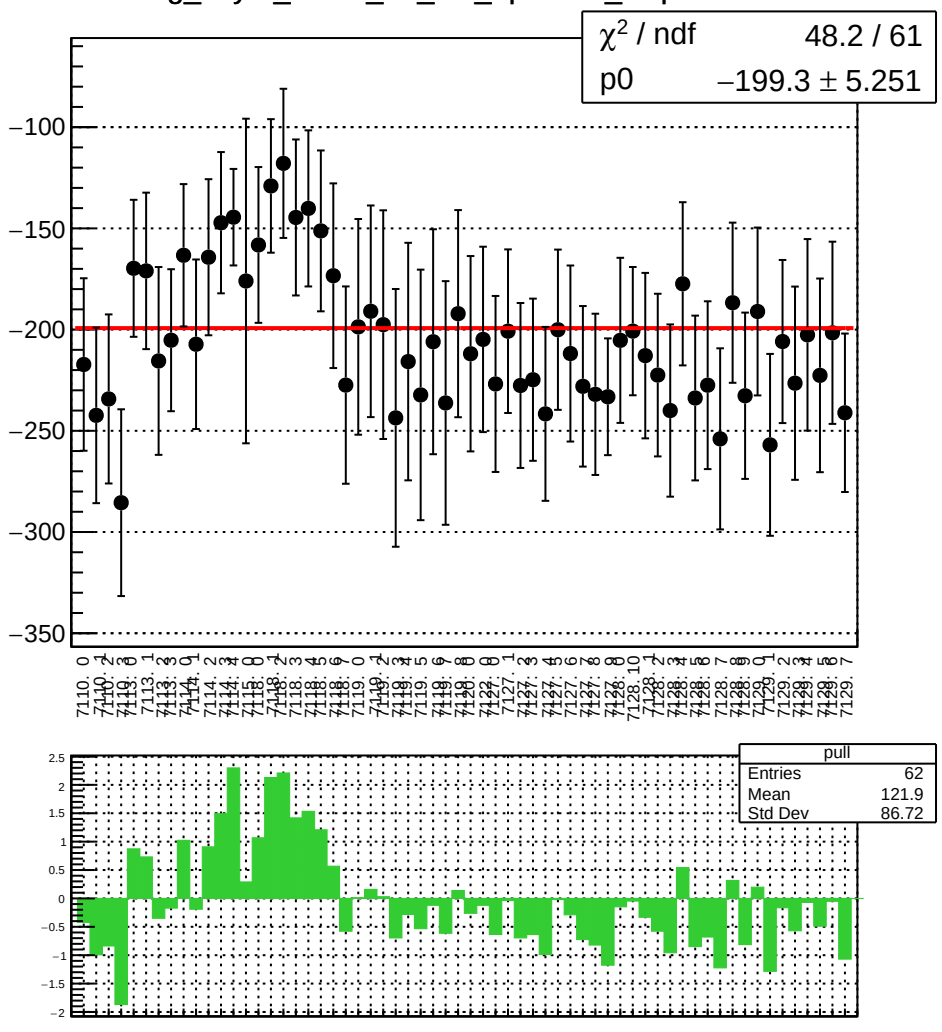

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.98 / 61
p0 80.07 ± 5.335
200
150
100
50
0
pull
Entries 62
Mean −152.5
Std Dev 184.5
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 62
Mean 0.03452
Std Dev 0.6828
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

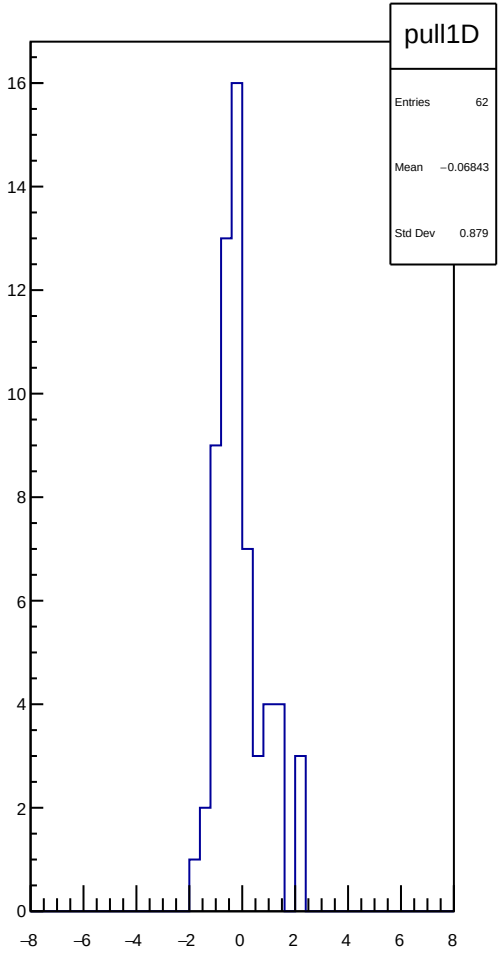

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 39.47 / 61
p0 −139.1± 0.244
pull
Entries 62
Mean −542
Std Dev 569.1
pull1D
Entries 62
Mean −0.01384
Std Dev 0.7978

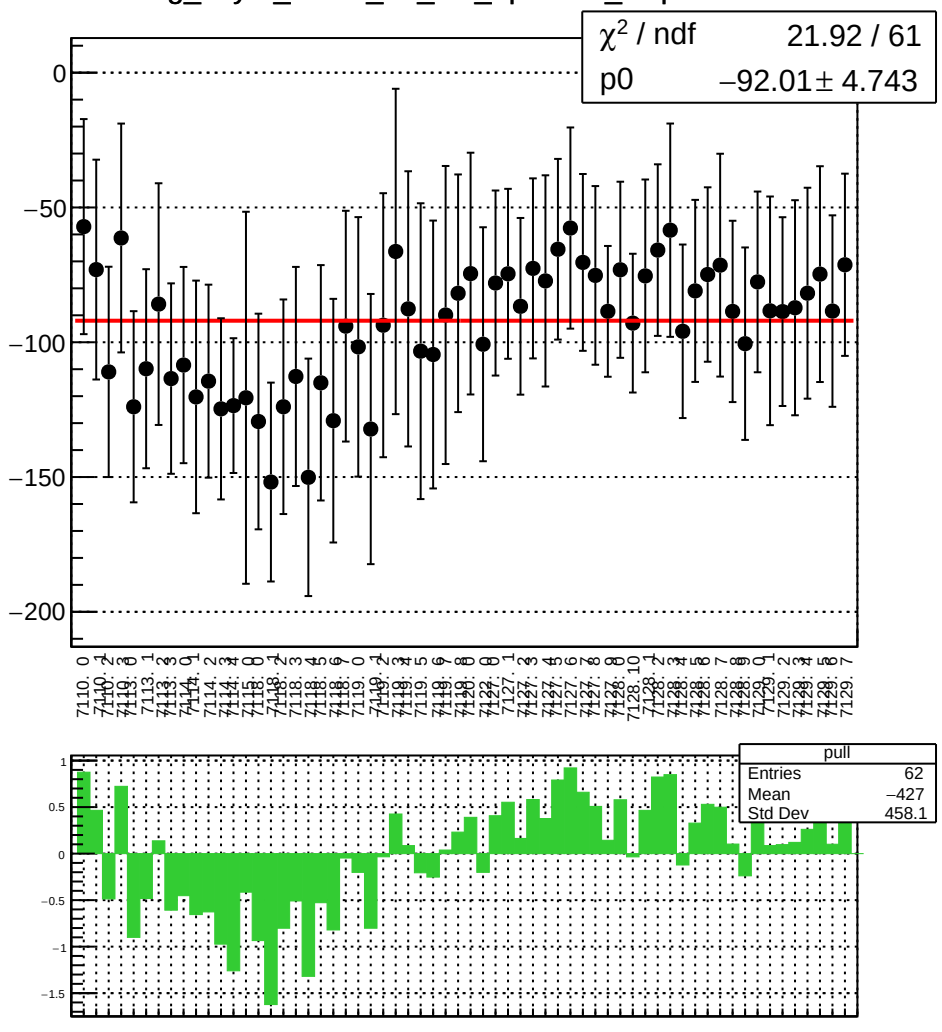

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 48.92 / 61
p0 166.9 ± 5.284
pull
Entries 62
Mean 120.2
Std Dev 84.55
pull1D
Entries 62
Mean 0.06816
Std Dev 0.8857

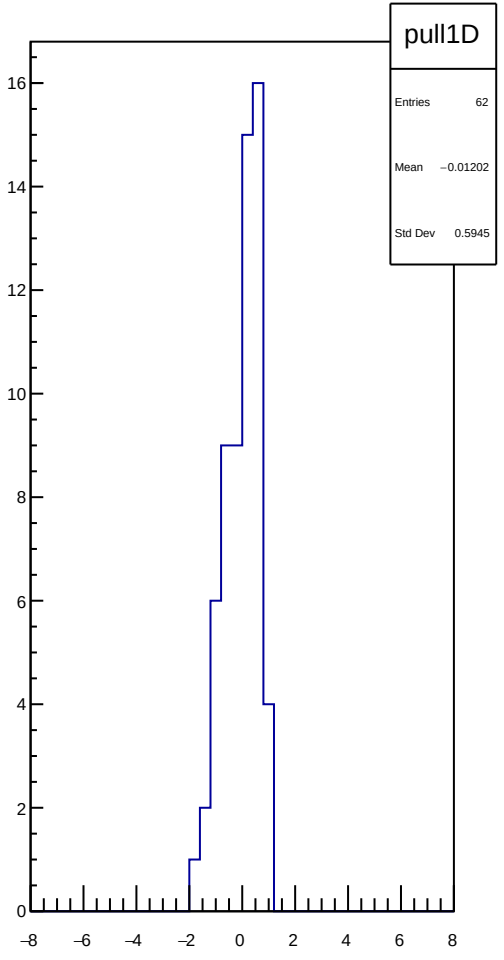

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.88 / 61
p0 19.27 ± 4.497
pull
Entries 62
Mean −630.3
Std Dev 660.9

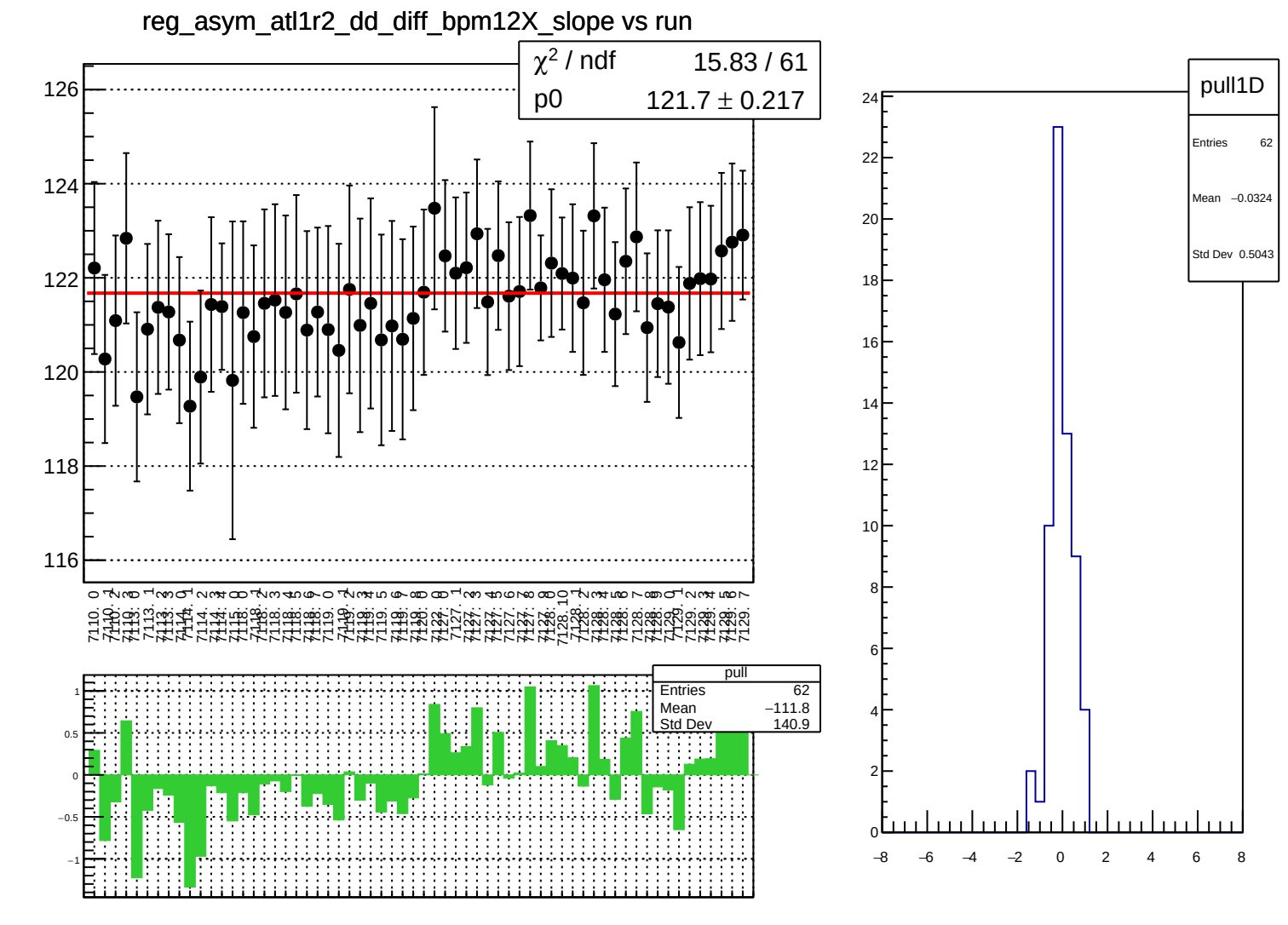

pull1D
Entries 62
Mean 0.007952
Std Dev 0.5803

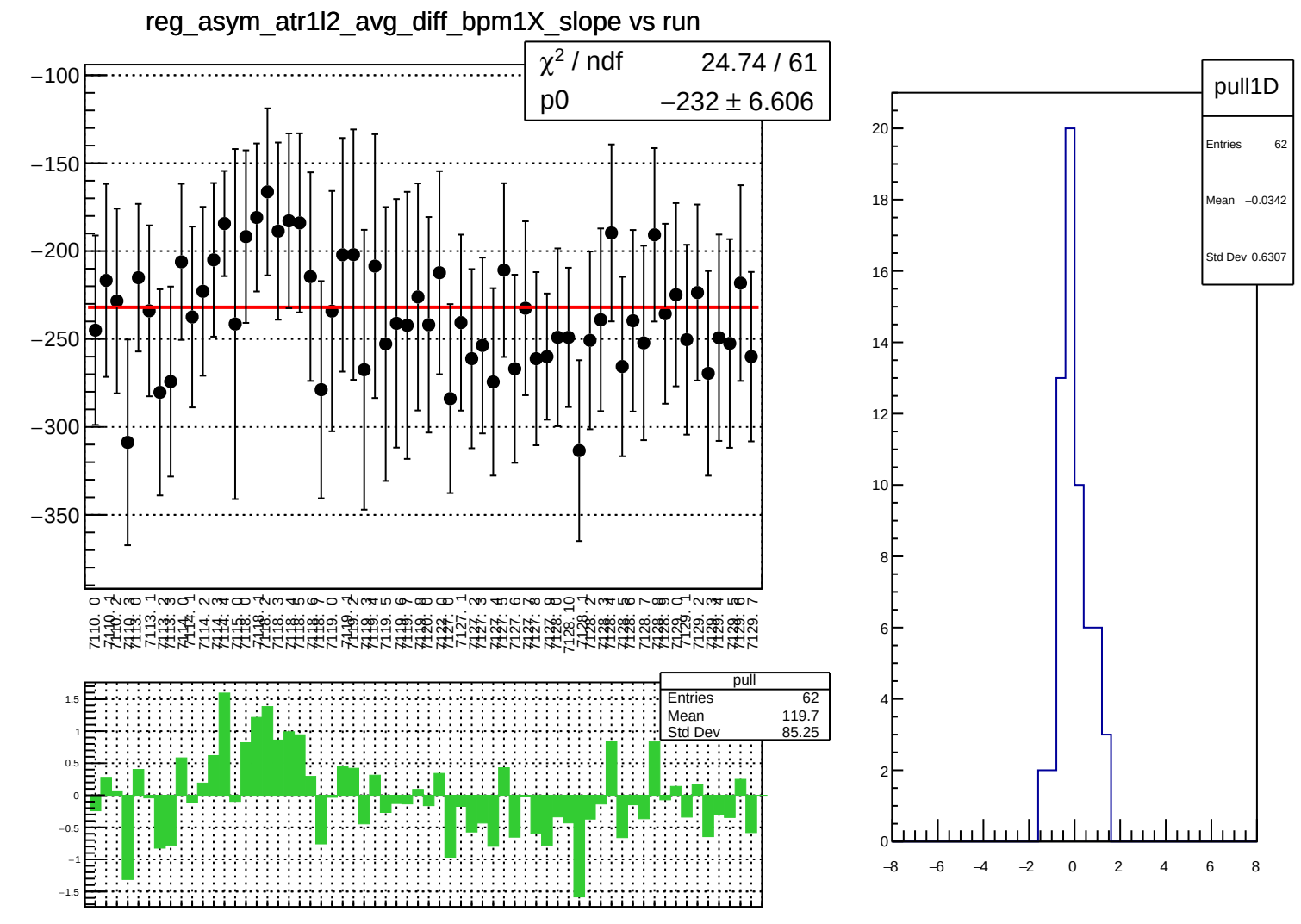

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.2 / 61
p0 −199.3 ± 5.251
pull
Entries 62
Mean 121.9
Std Dev 86.72

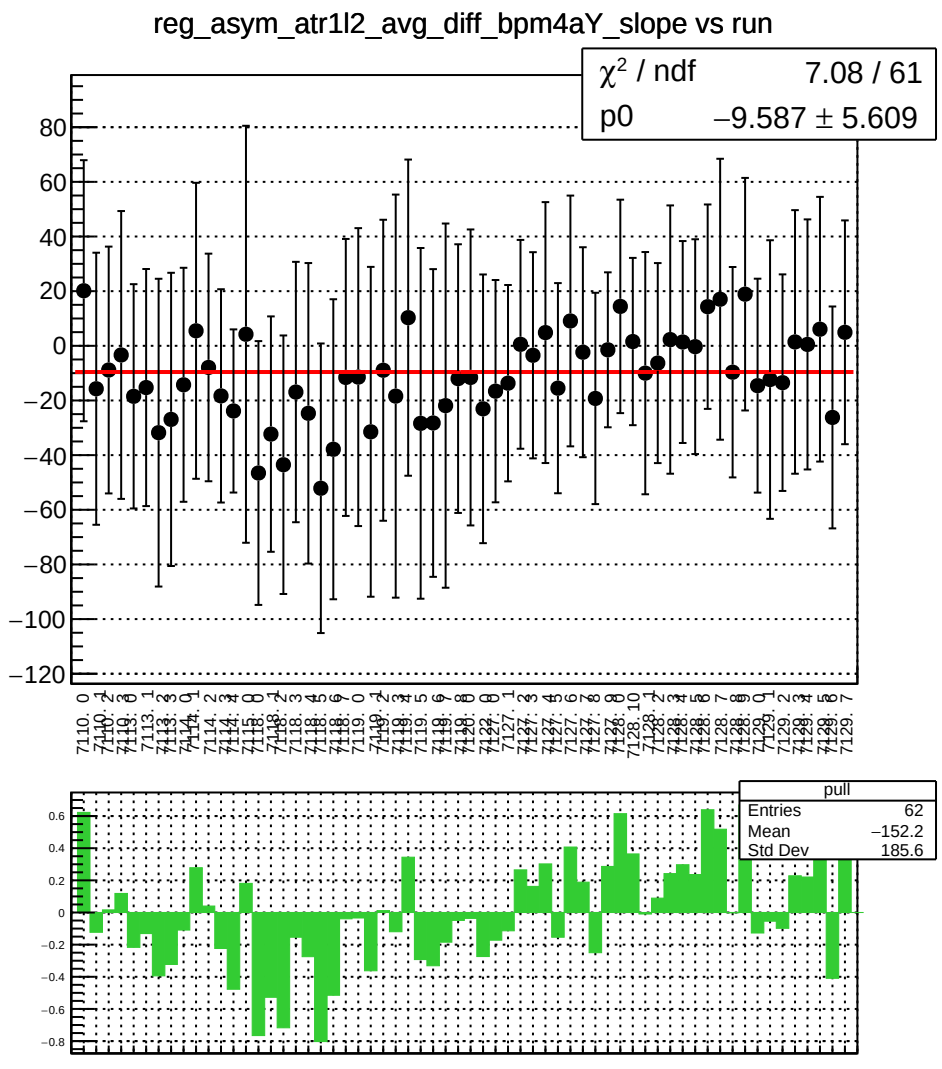

pull1D
Entries 62
Mean −0.06843
Std Dev 0.879

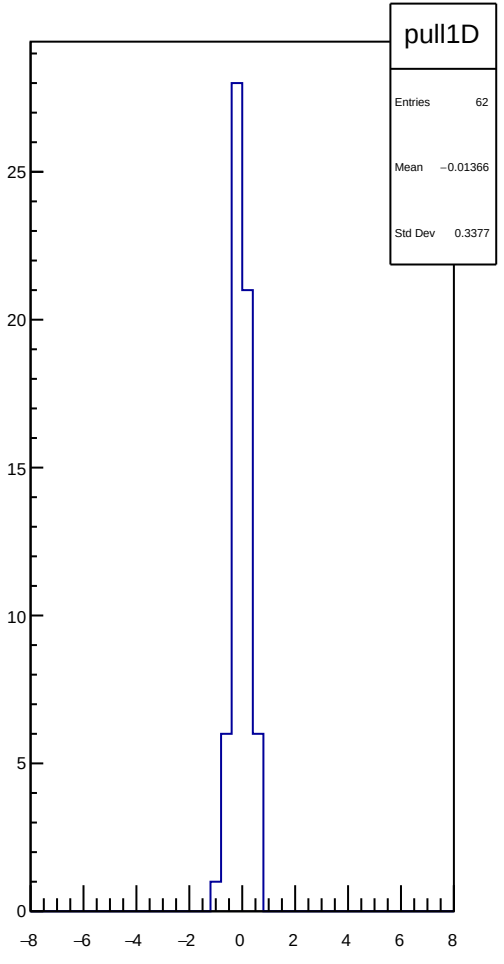

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.92 / 61
p0 −92.01 ± 4.743
pull
Entries 62
Mean −427
Std Dev 458.1

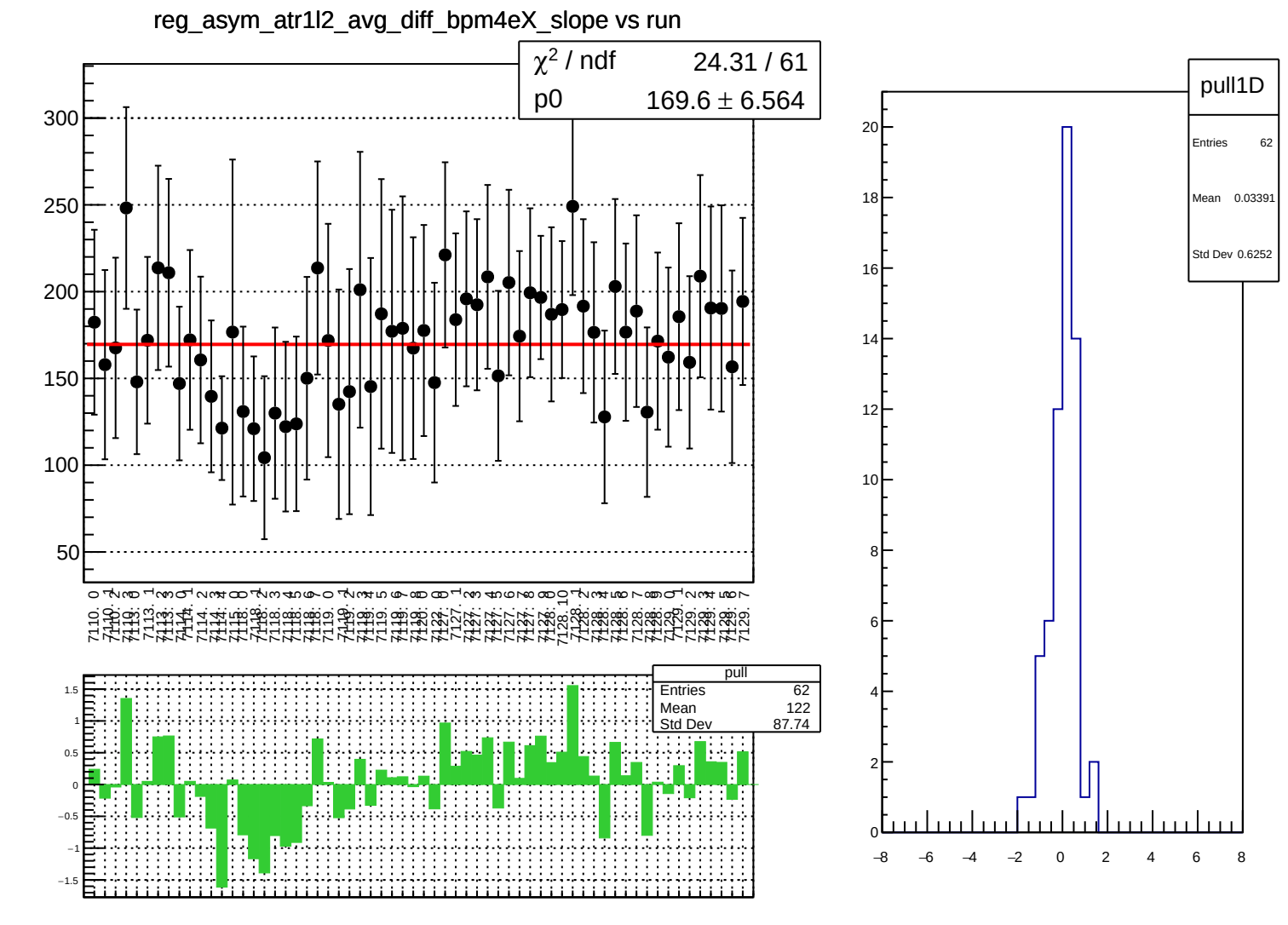

pull1D
Entries 62
Mean −0.01202
Std Dev 0.5945

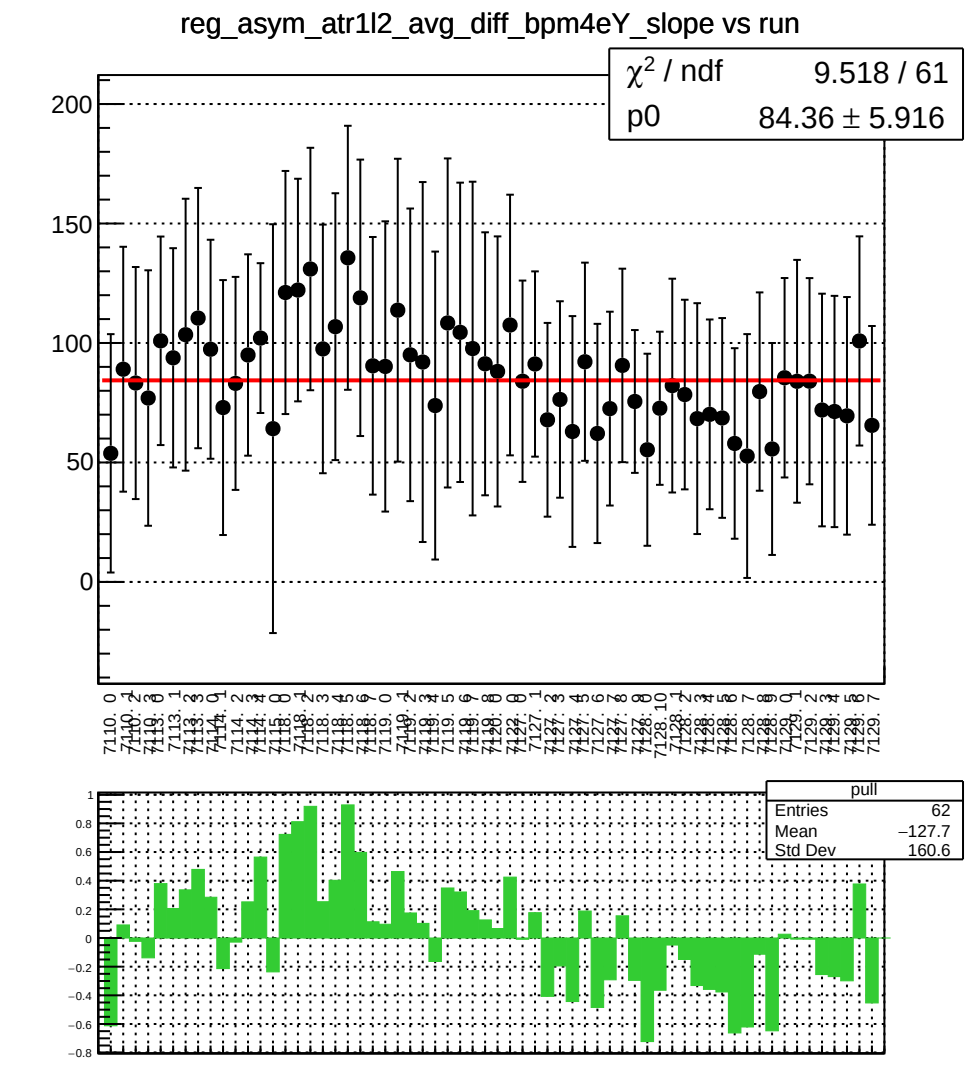

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 15.83 / 61
p0 121.7 ± 0.217
126
124
122
120
118
116
pull
Entries 62
Mean −111.8
Std Dev 140.9
1
0.5
0
−0.5
−1
pull1D
Entries 62
Mean −0.0324
Std Dev 0.5043
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

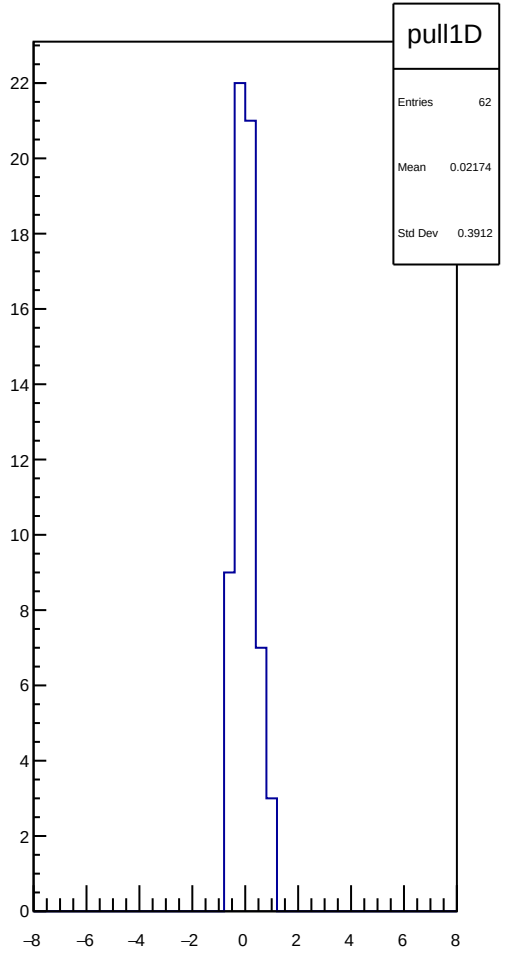

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 24.74 / 61
p0 −232 ± 6.606
−100
−150
−200
−250
−300
−350
pull
Entries 62
Mean 119.7
Std Dev 85.25
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 62
Mean −0.0342
Std Dev 0.6307
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

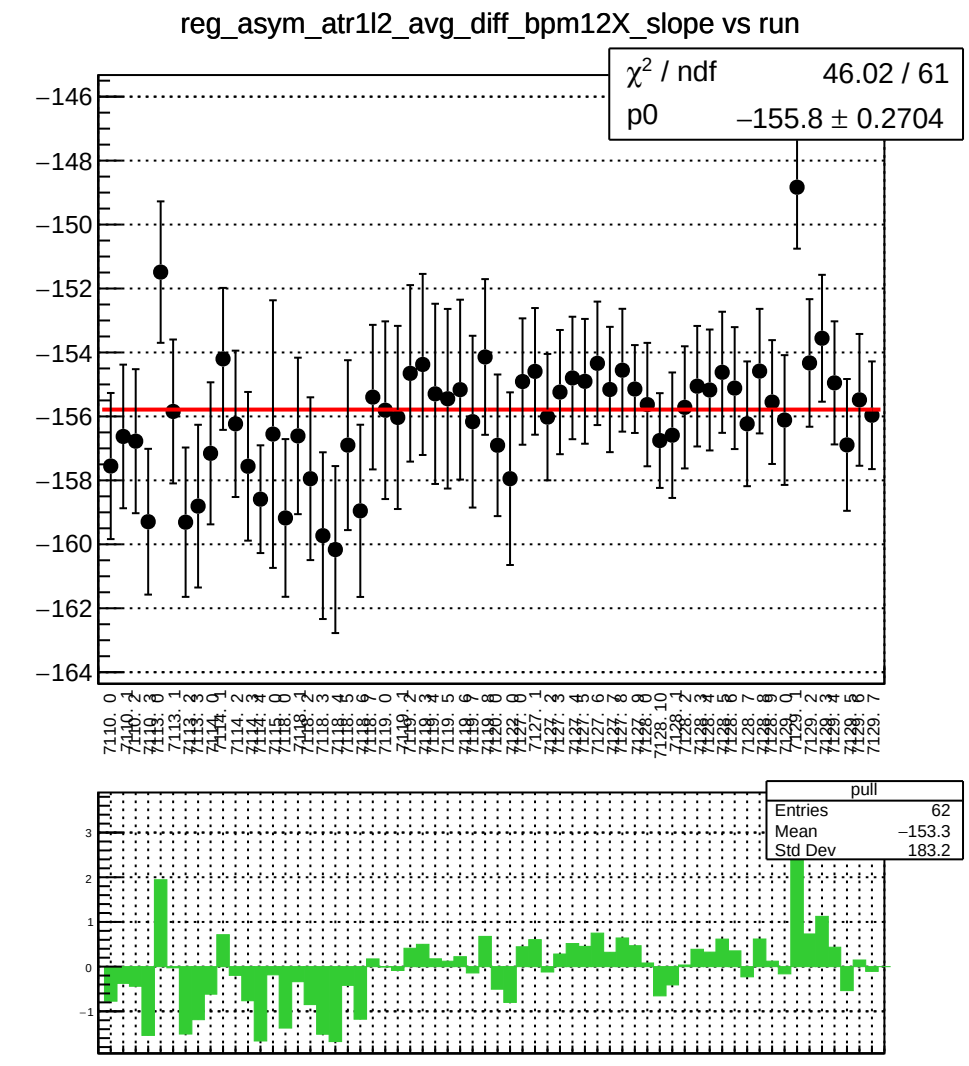

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.08 / 61
p0 −9.587 ± 5.609
pull
Entries 62
Mean −152.2
Std Dev 185.6

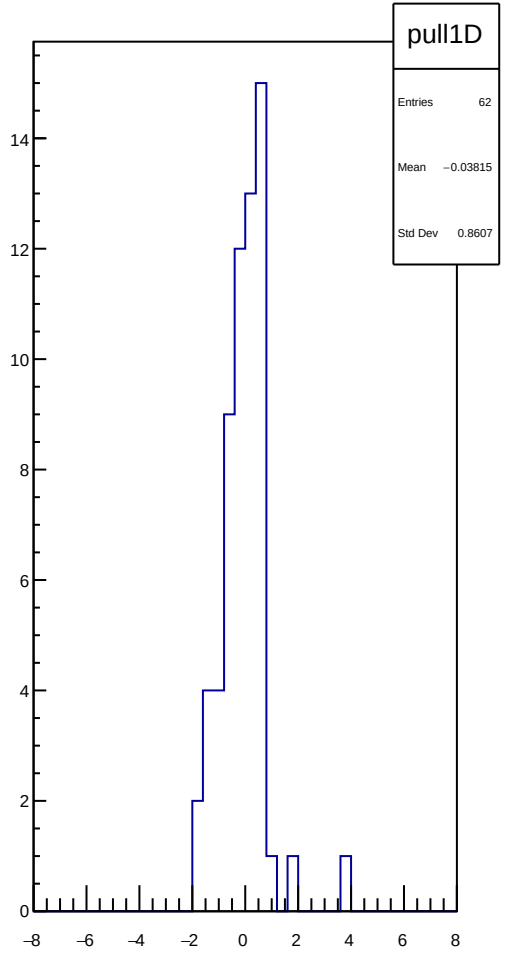

pull1D
Entries 62
Mean −0.01366
Std Dev 0.3377

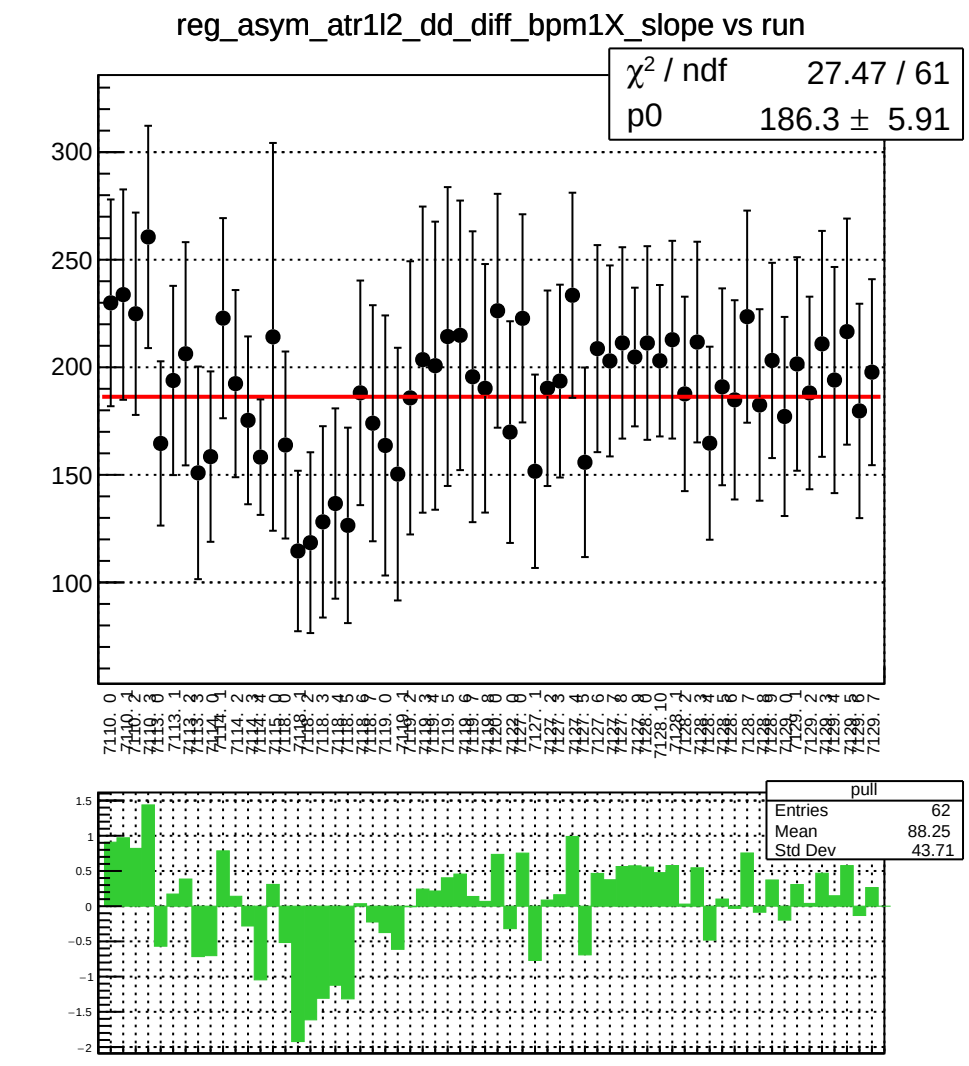

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.31 / 61
p0 169.6 ± 6.564
pull
Entries 62
Mean 122
Std Dev 87.74
pull1D
Entries 62
Mean 0.03391
Std Dev 0.6252

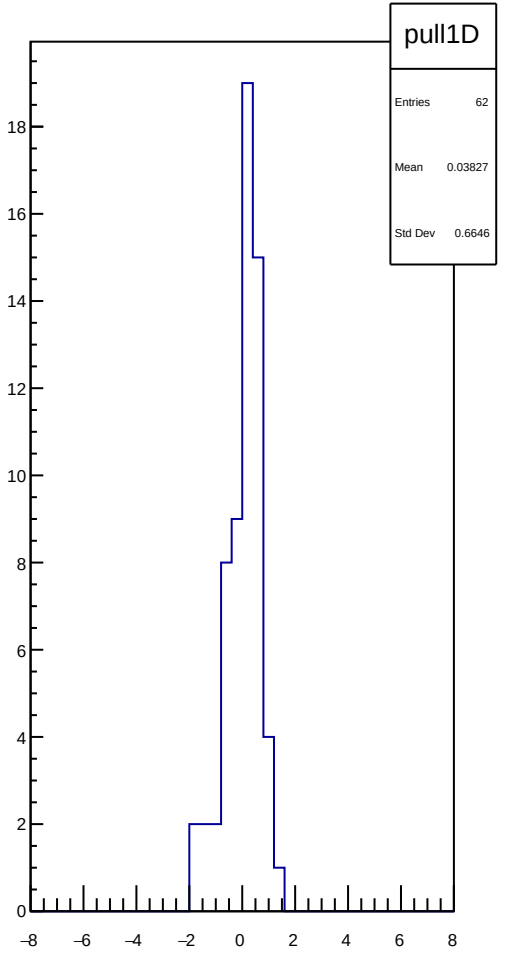

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.518 / 61
p0 84.36 ± 5.916
200
150
100
50
0
pull
Entries 62
Mean −127.7
Std Dev 160.6
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

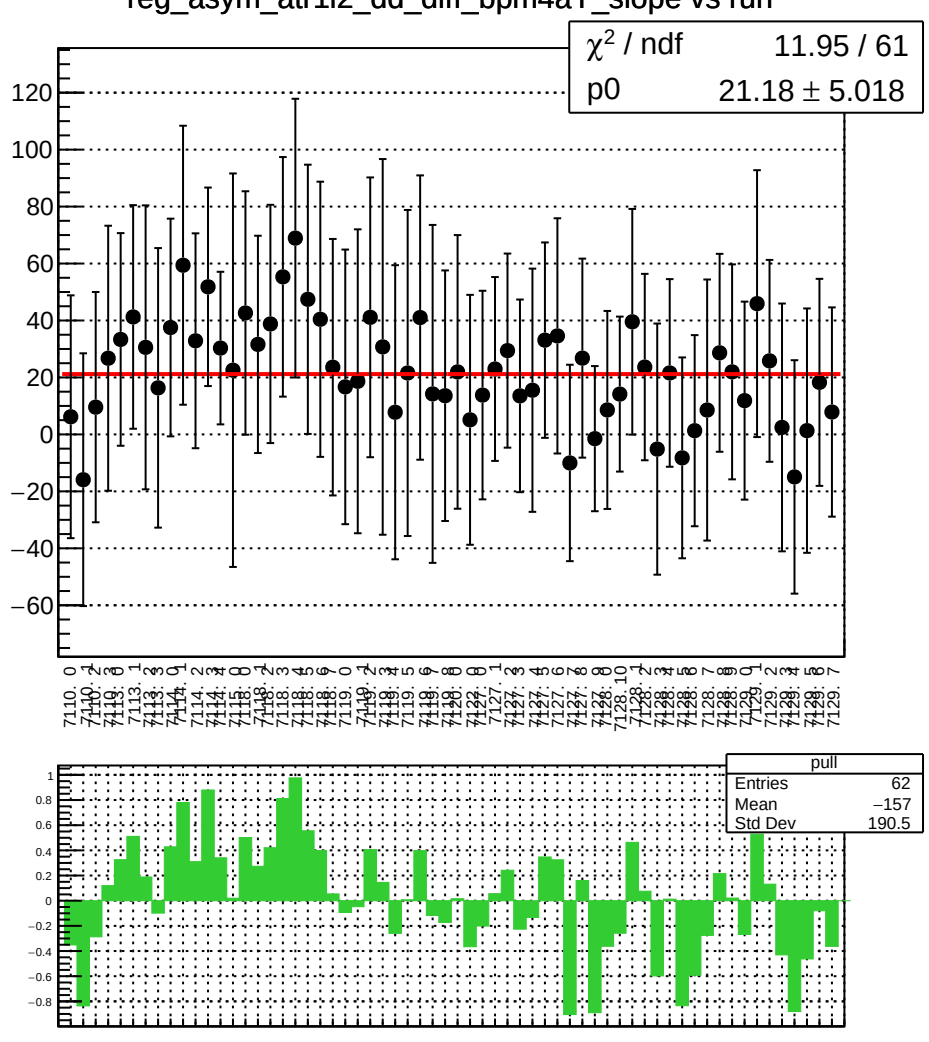

pull1D
Entries 62
Mean 0.02174
Std Dev 0.3912
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

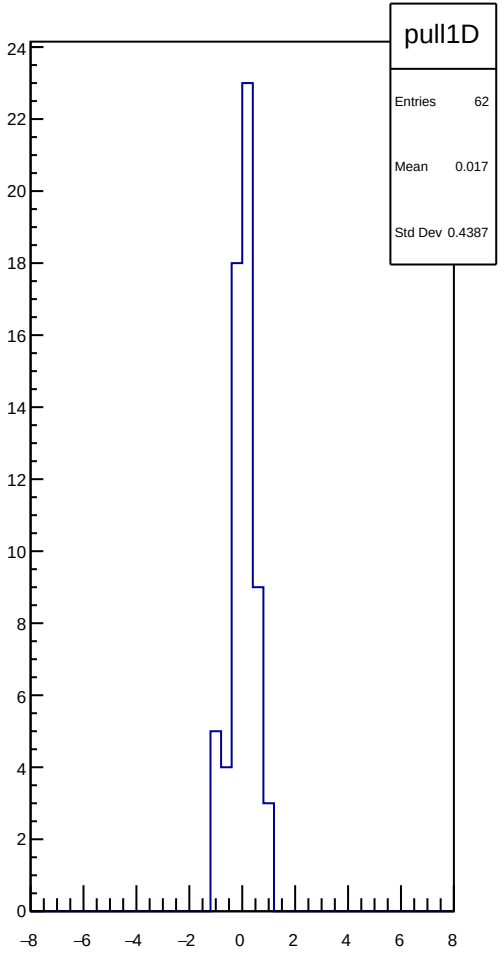

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 46.02 / 61
p0 −155.8 ± 0.2704
pull
Entries 62
Mean −153.3
Std Dev 183.2

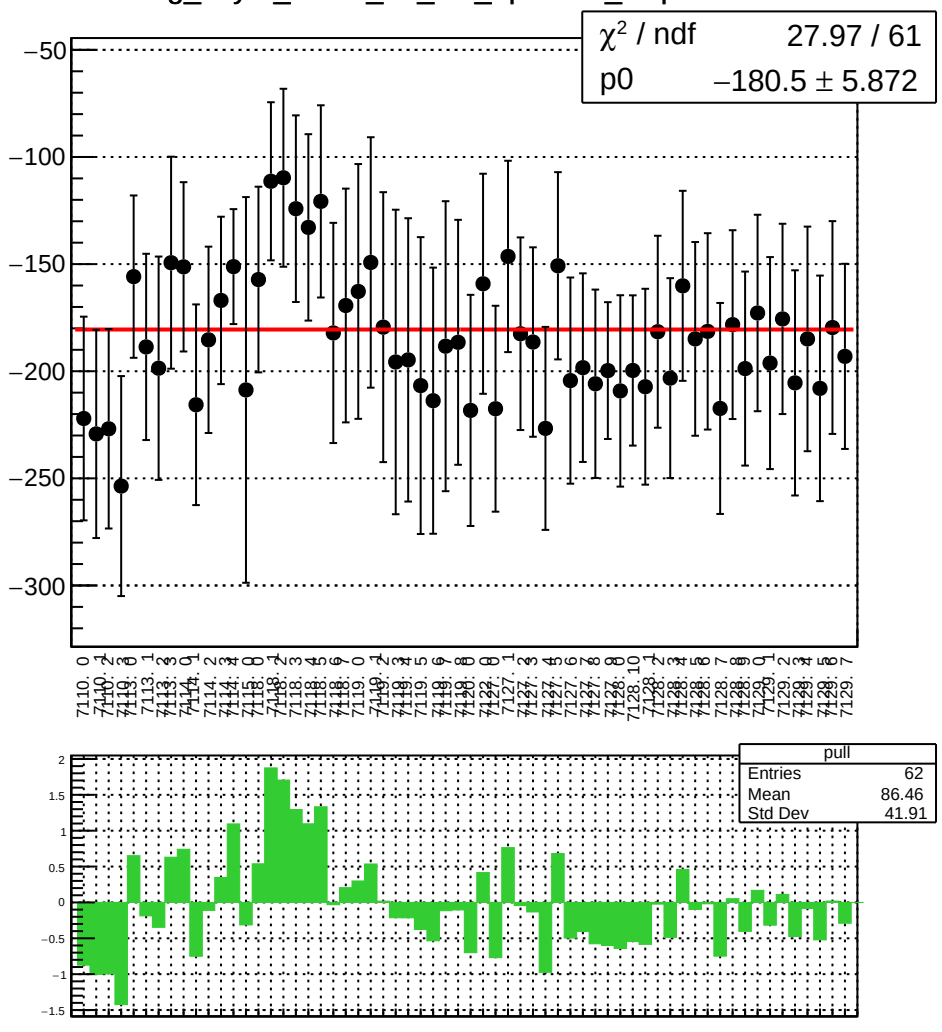

pull1D
Entries 62
Mean −0.03815
Std Dev 0.8607

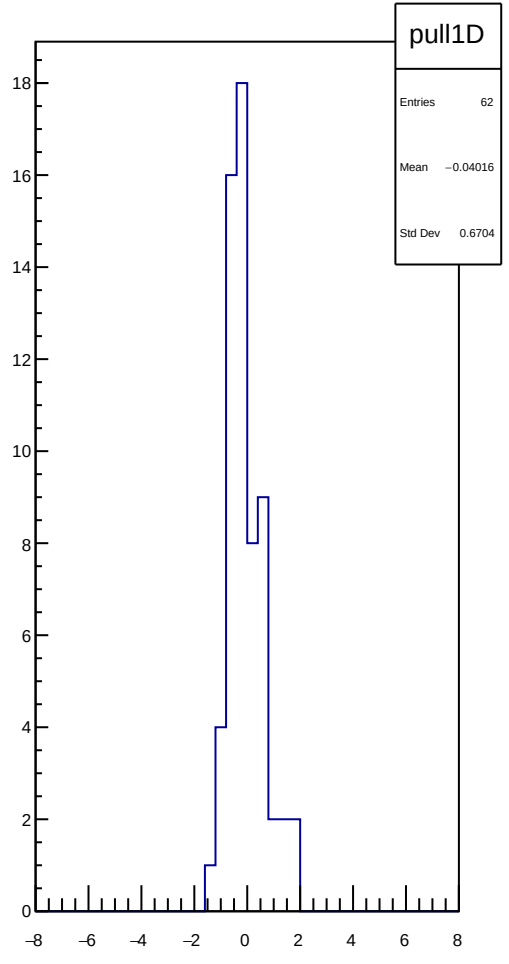

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 27.47 / 61
p0 186.3 ± 5.91
pull
Entries 62
Mean 88.25
Std Dev 43.71

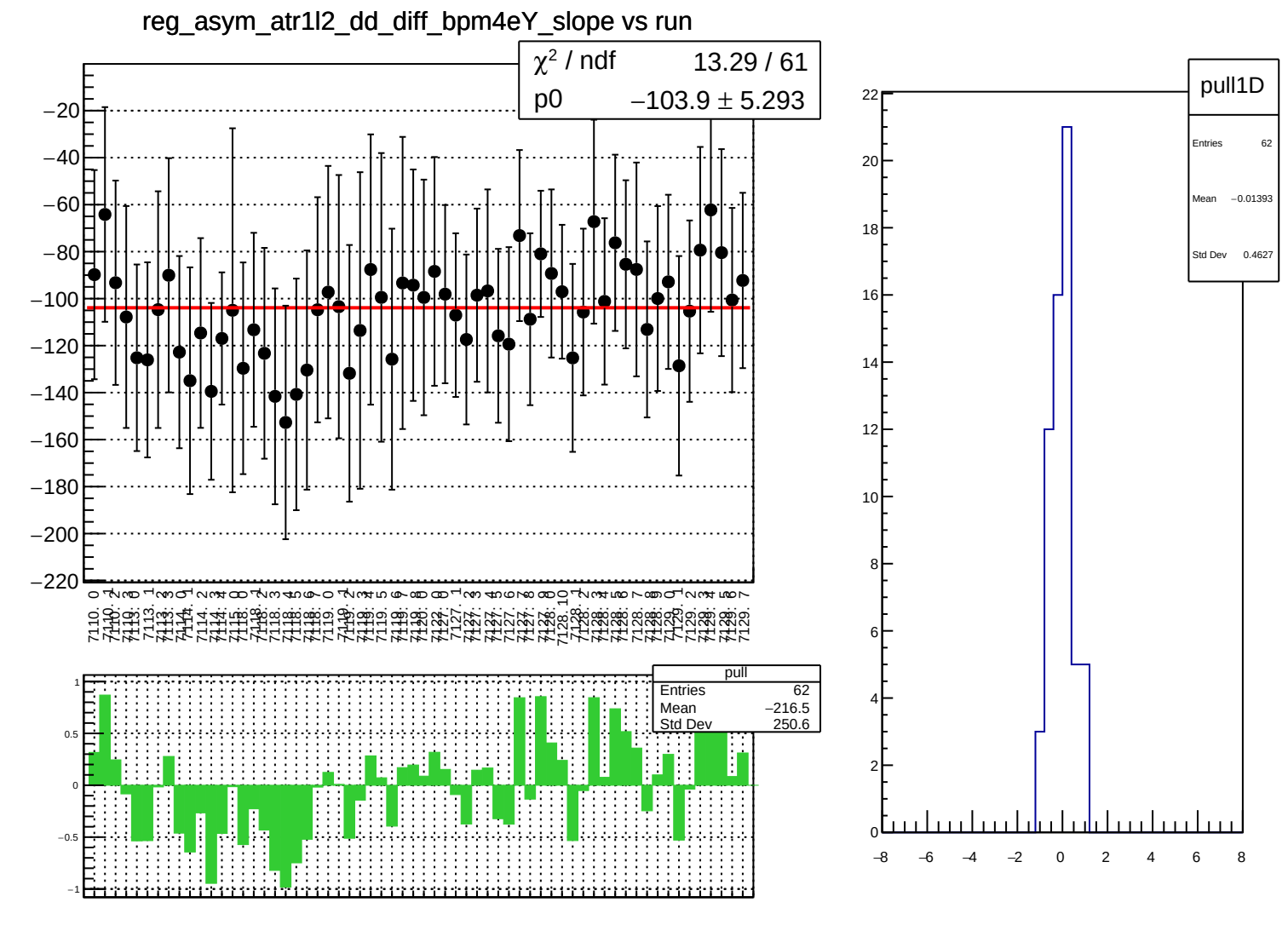

pull1D
Entries 62
Mean 0.03827
Std Dev 0.6646

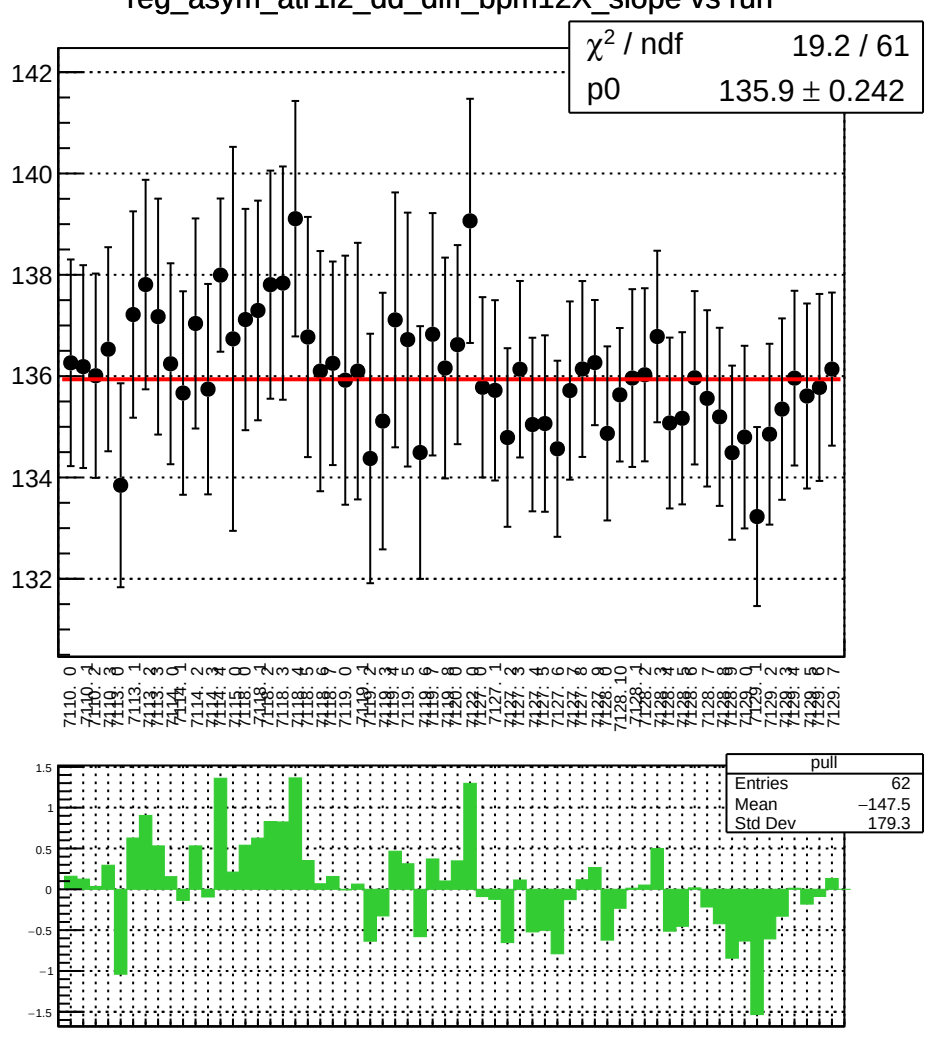

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 11.95 / 61
p0 21.18 ± 5.018
pull
Entries 62
Mean −157
Std Dev 190.5

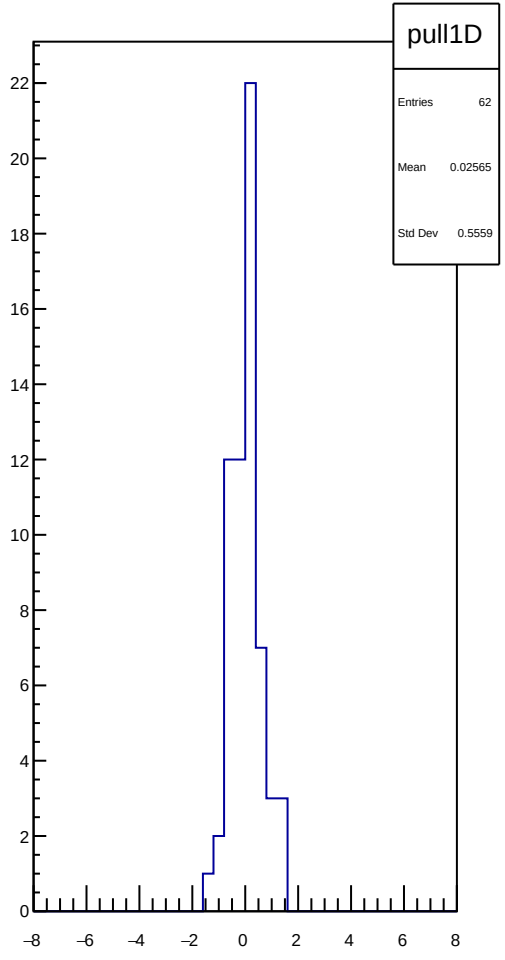

pull1D
Entries 62
Mean 0.017
Std Dev 0.4387

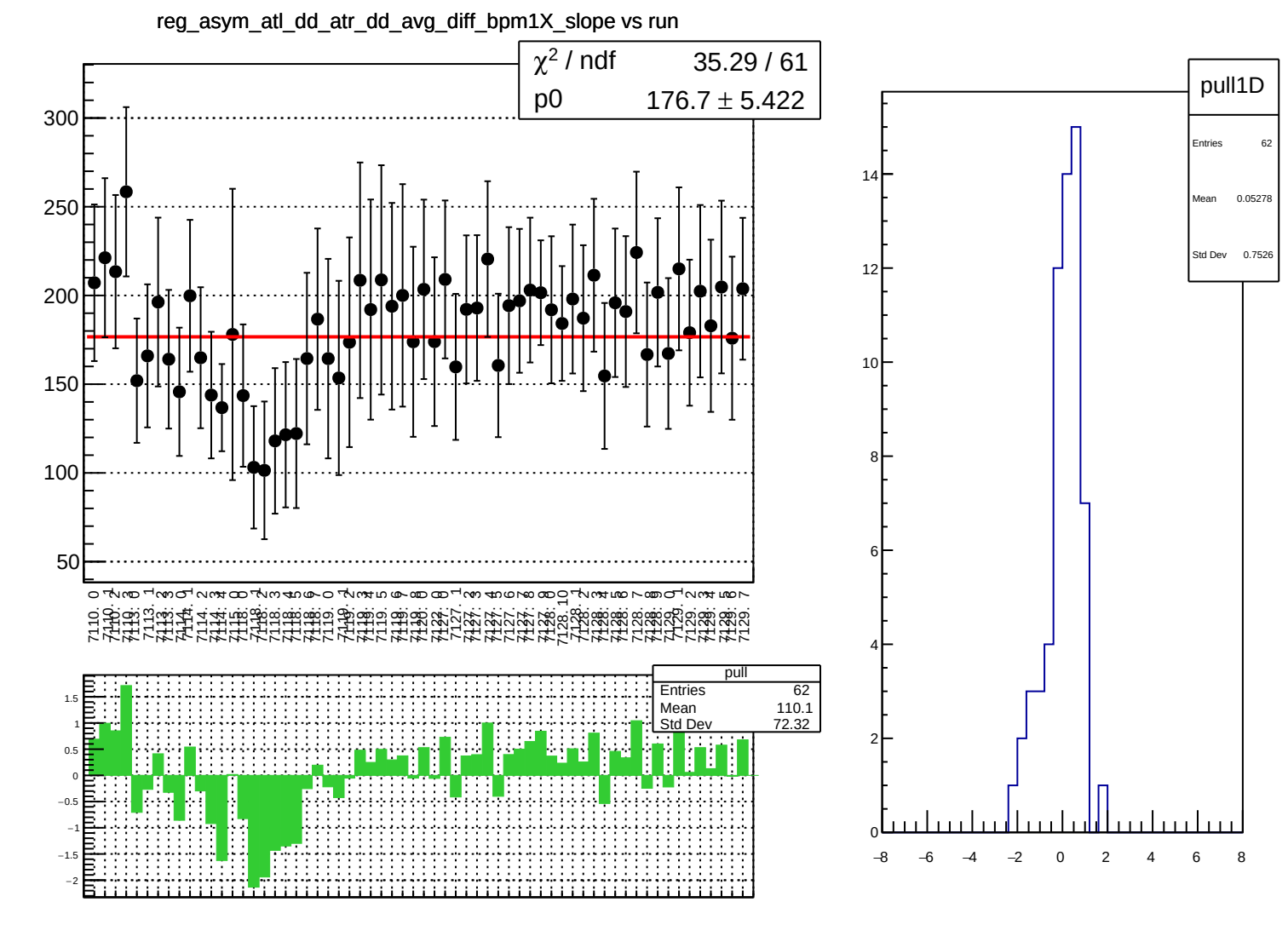

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.97 / 61
p0 −180.5 ± 5.872
pull
Entries 62
Mean 86.46
Std Dev 41.91

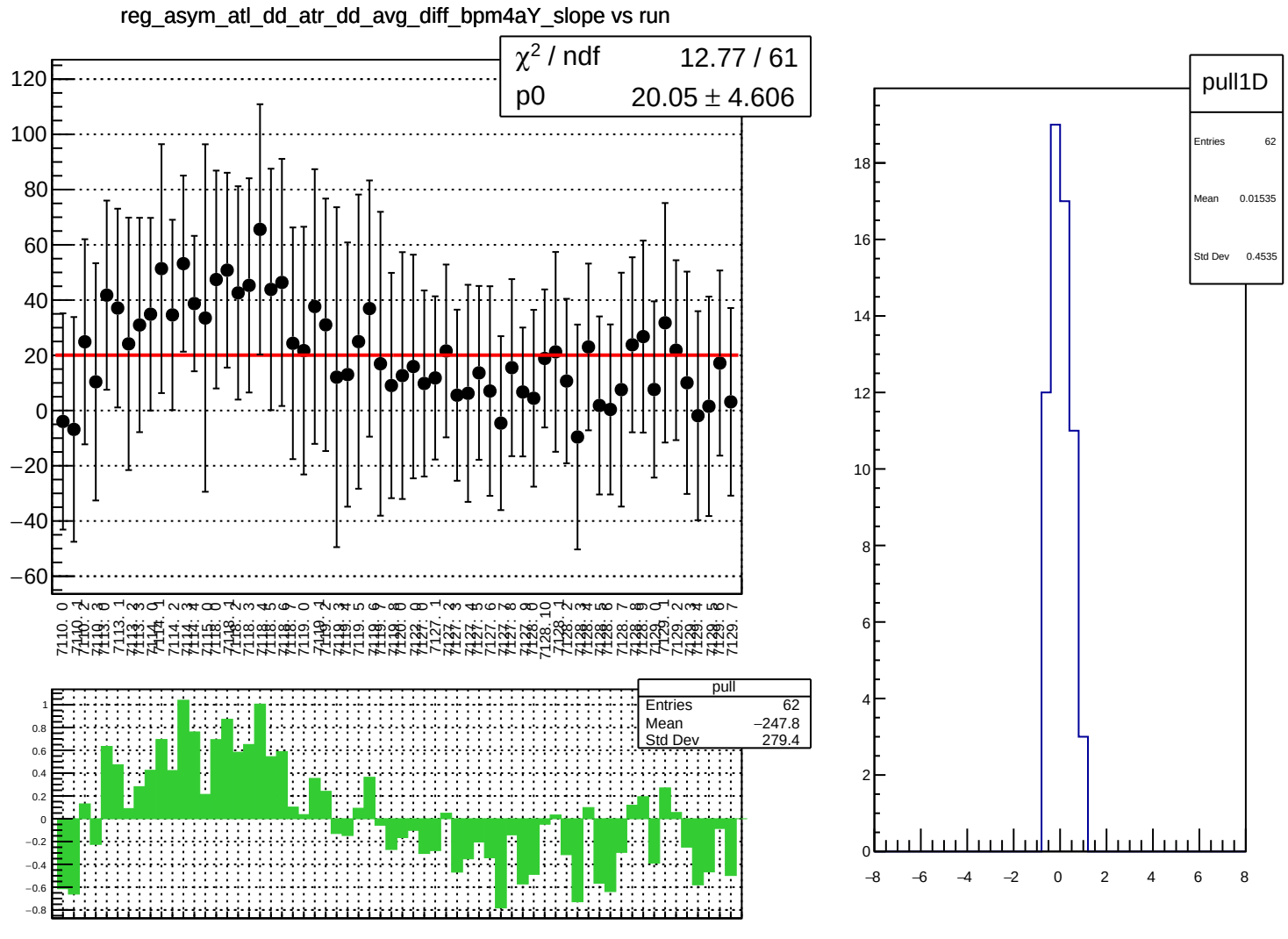

pull1D
Entries 62
Mean −0.04016
Std Dev 0.6704

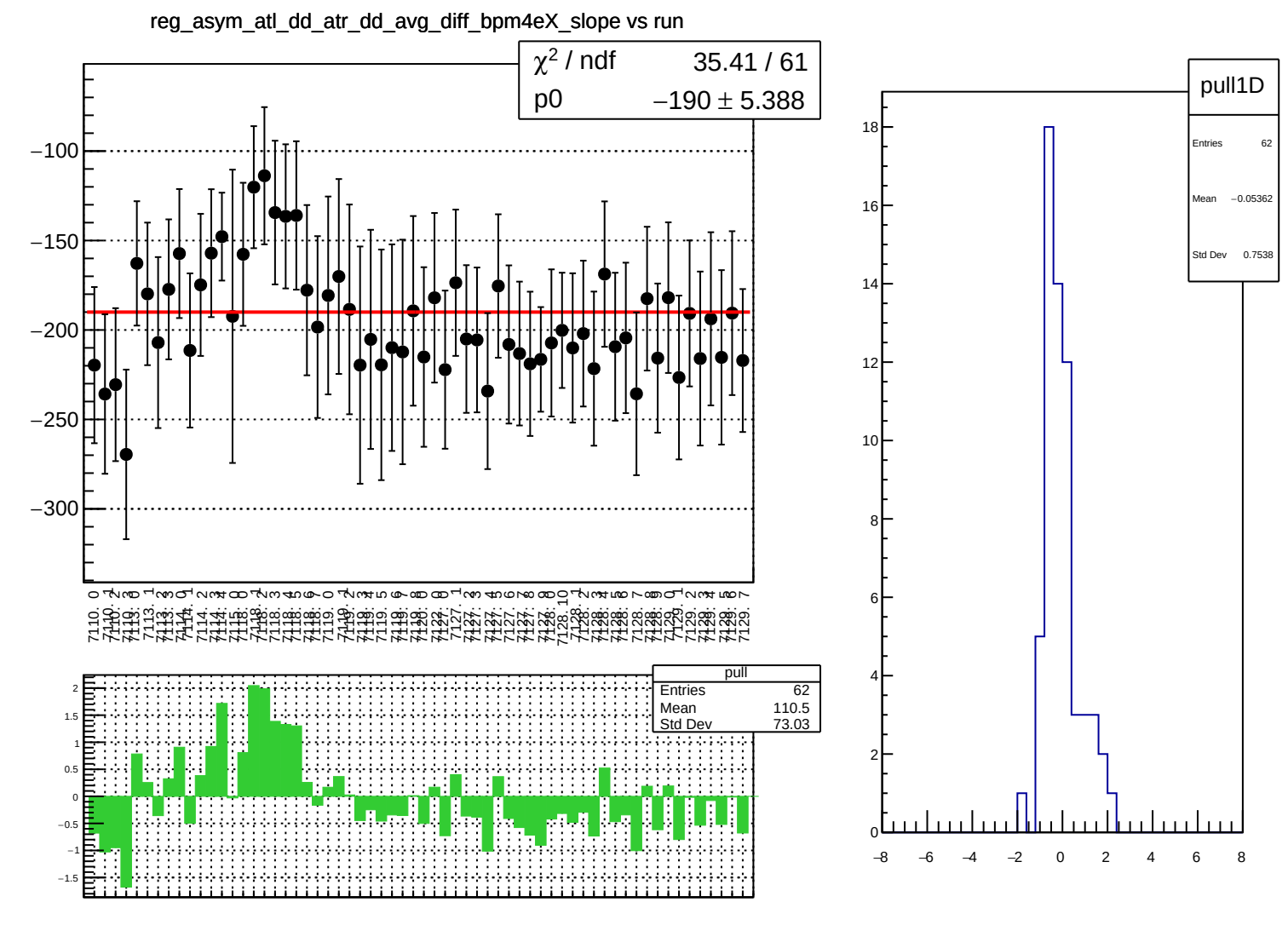

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.29 / 61
p0 −103.9 ± 5.293
pull
Entries 62
Mean −216.5
Std Dev 250.6
pull1D
Entries 62
Mean −0.01393
Std Dev 0.4627

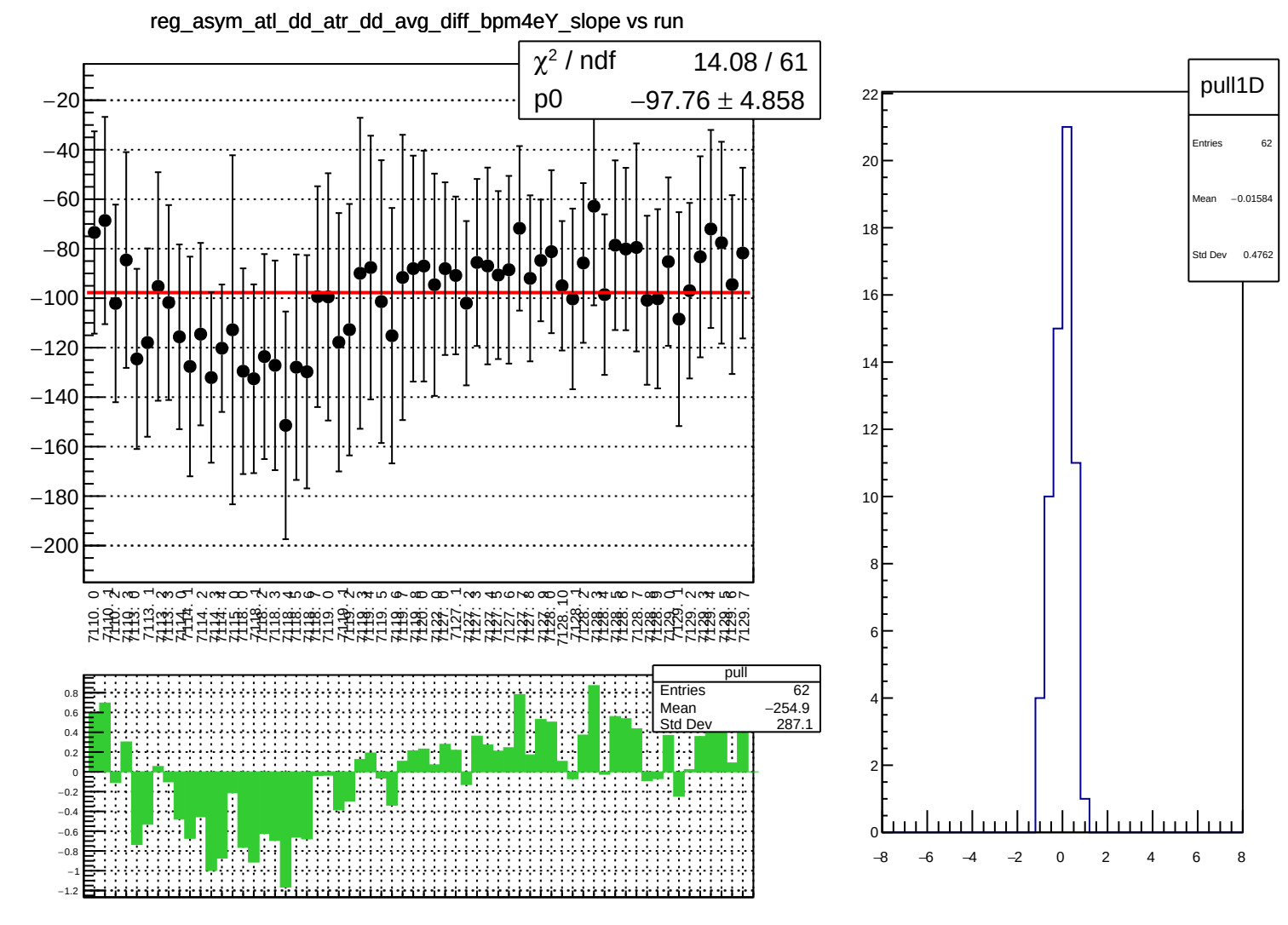

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 19.2 / 61
p0 135.9 ± 0.242
142
140
138
136
134
132
pull
Entries 62
Mean −147.5
Std Dev 179.3
1.5
1
0.5
0
−0.5
−1
−1.5

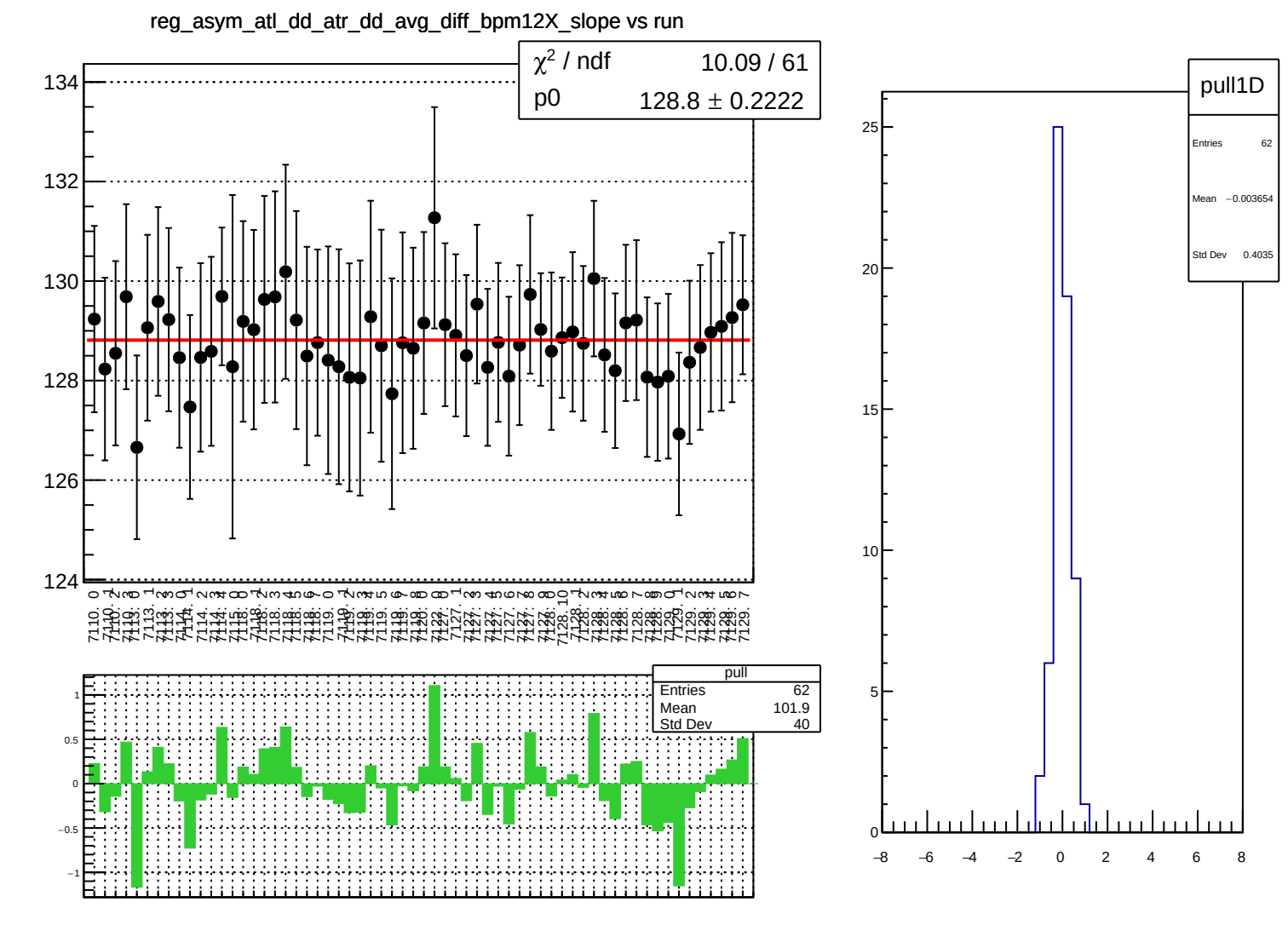

pull1D
Entries 62
Mean 0.02565
Std Dev 0.5559
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

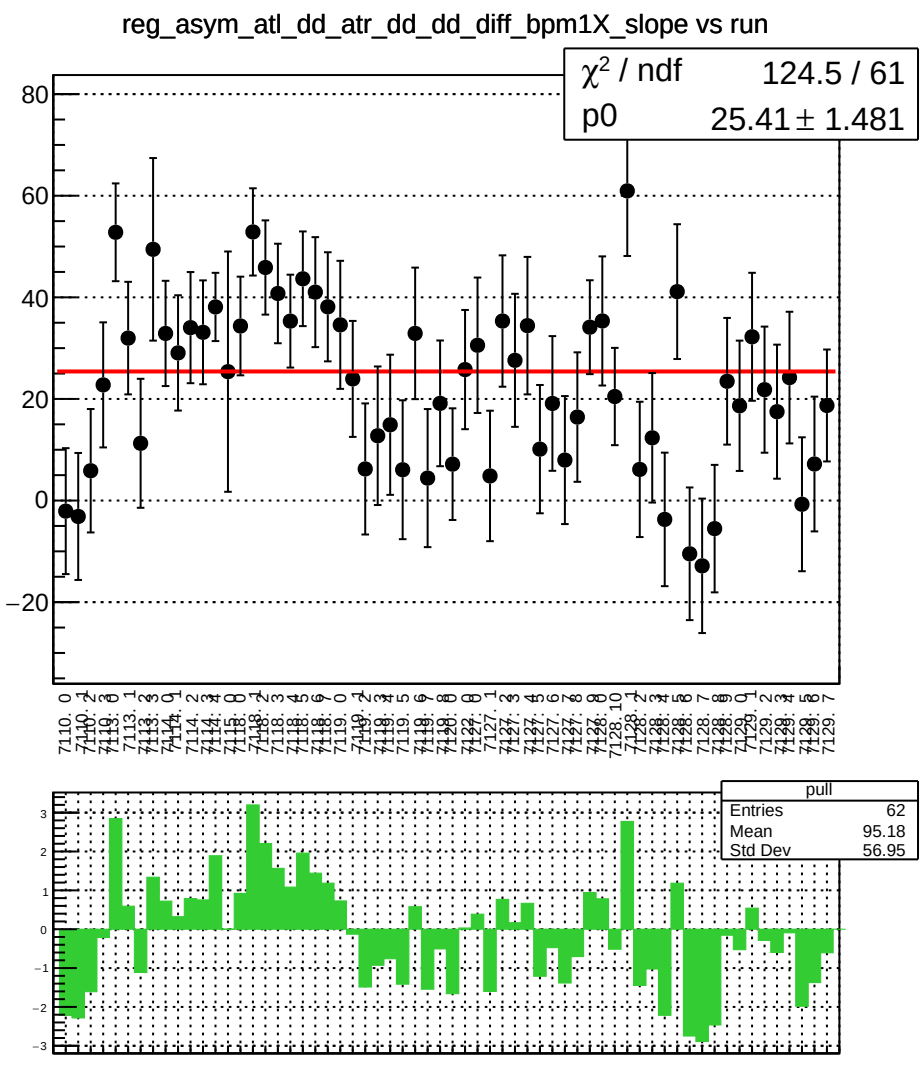

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 35.29 / 61
p0 176.7 ± 5.422
pull
Entries 62
Mean 110.1
Std Dev 72.32
pull1D
Entries 62
Mean 0.05278
Std Dev 0.7526

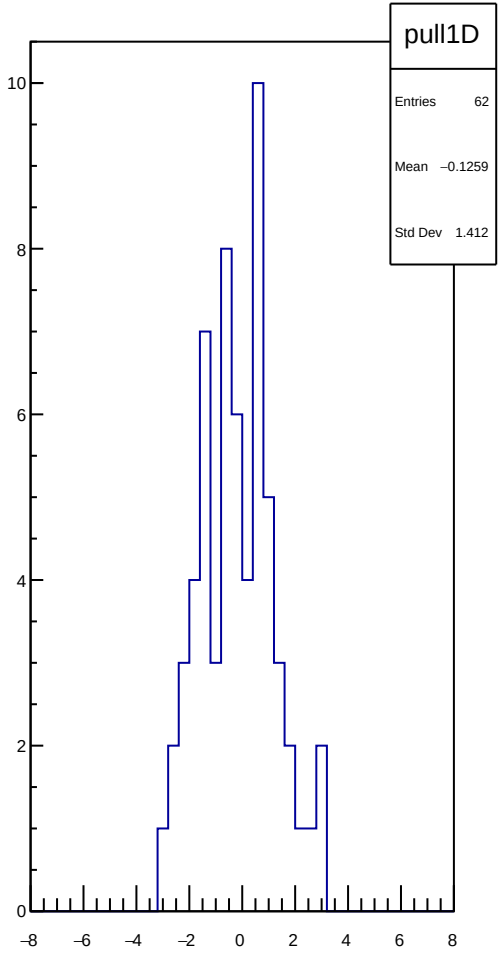

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.77 / 61
p0 20.05 ± 4.606
pull
Entries 62
Mean −247.8
Std Dev 279.4
pull1D
Entries 62
Mean 0.01535
Std Dev 0.4535

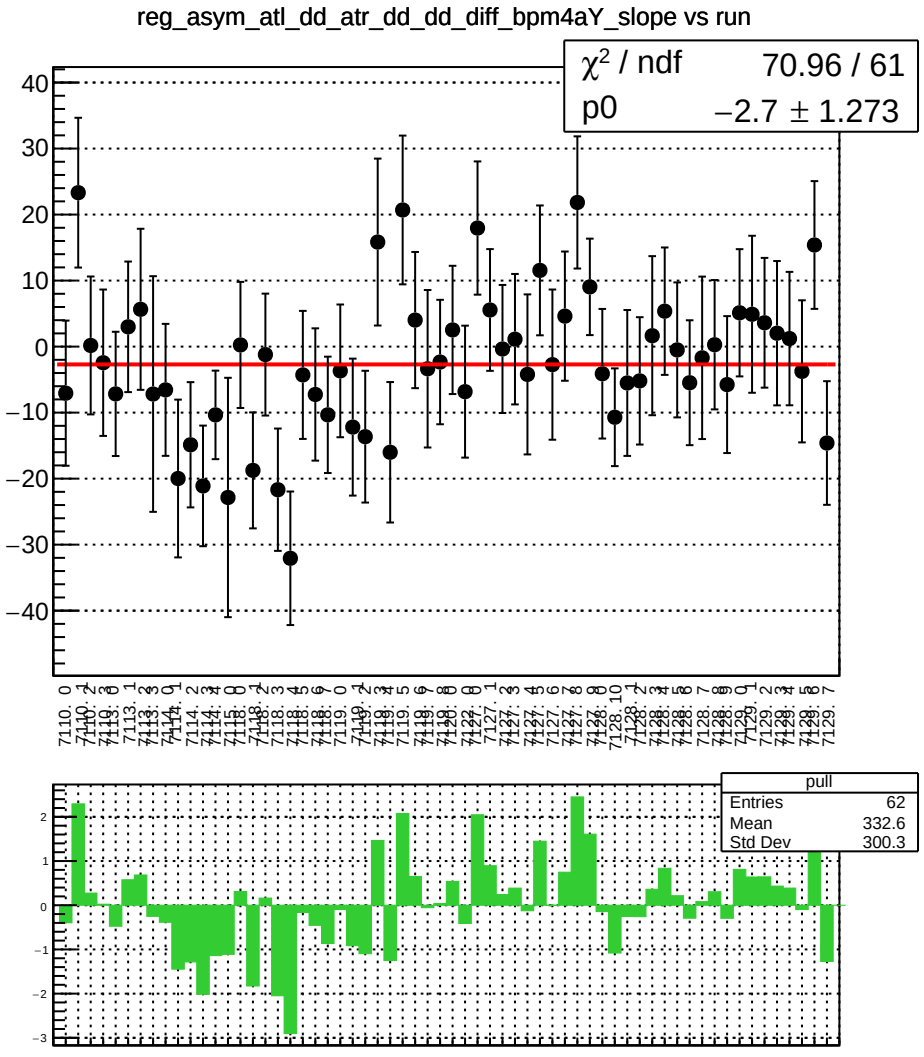

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.41 / 61
p0 −190 ± 5.388
pull
Entries 62
Mean 110.5
Std Dev 73.03
pull1D
Entries 62
Mean −0.05362
Std Dev 0.7538

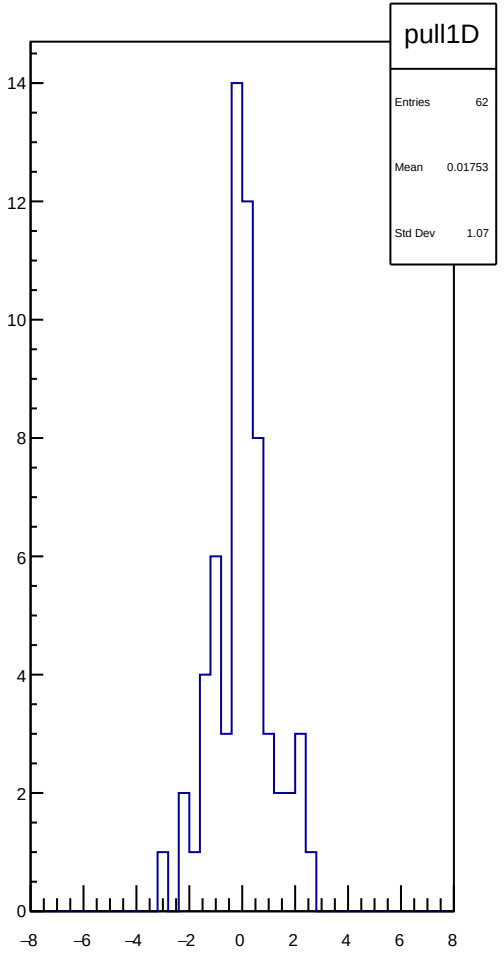

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.08 / 61
p0 −97.76 ± 4.858
pull
Entries 62
Mean −254.9
Std Dev 287.1
pull1D
Entries 62
Mean −0.01584
Std Dev 0.4762

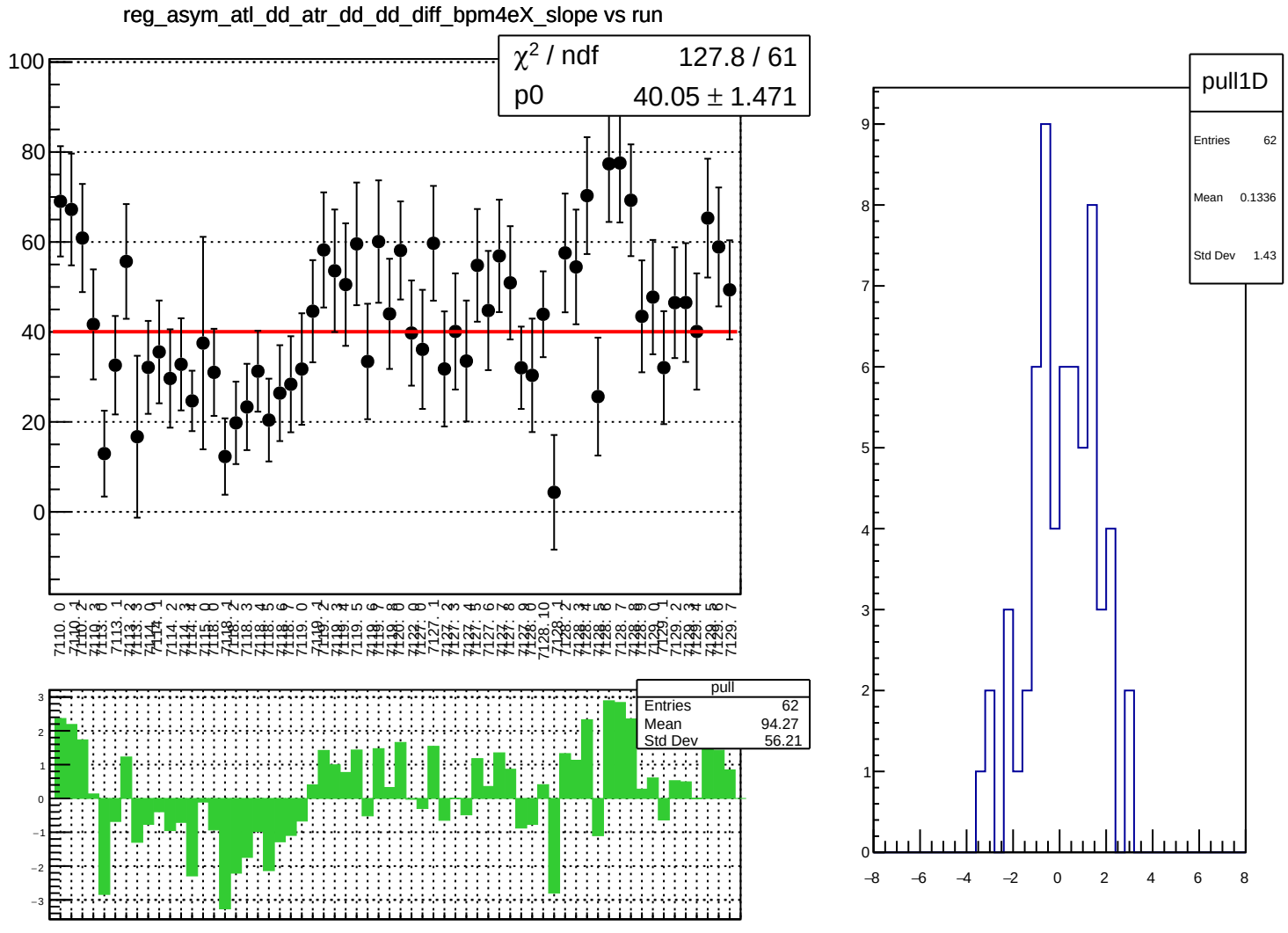

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 10.09 / 61
p0 128.8 ± 0.2222
pull
Entries 62
Mean 101.9
Std Dev 40
pull1D
Entries 62
Mean −0.003654
Std Dev 0.4035

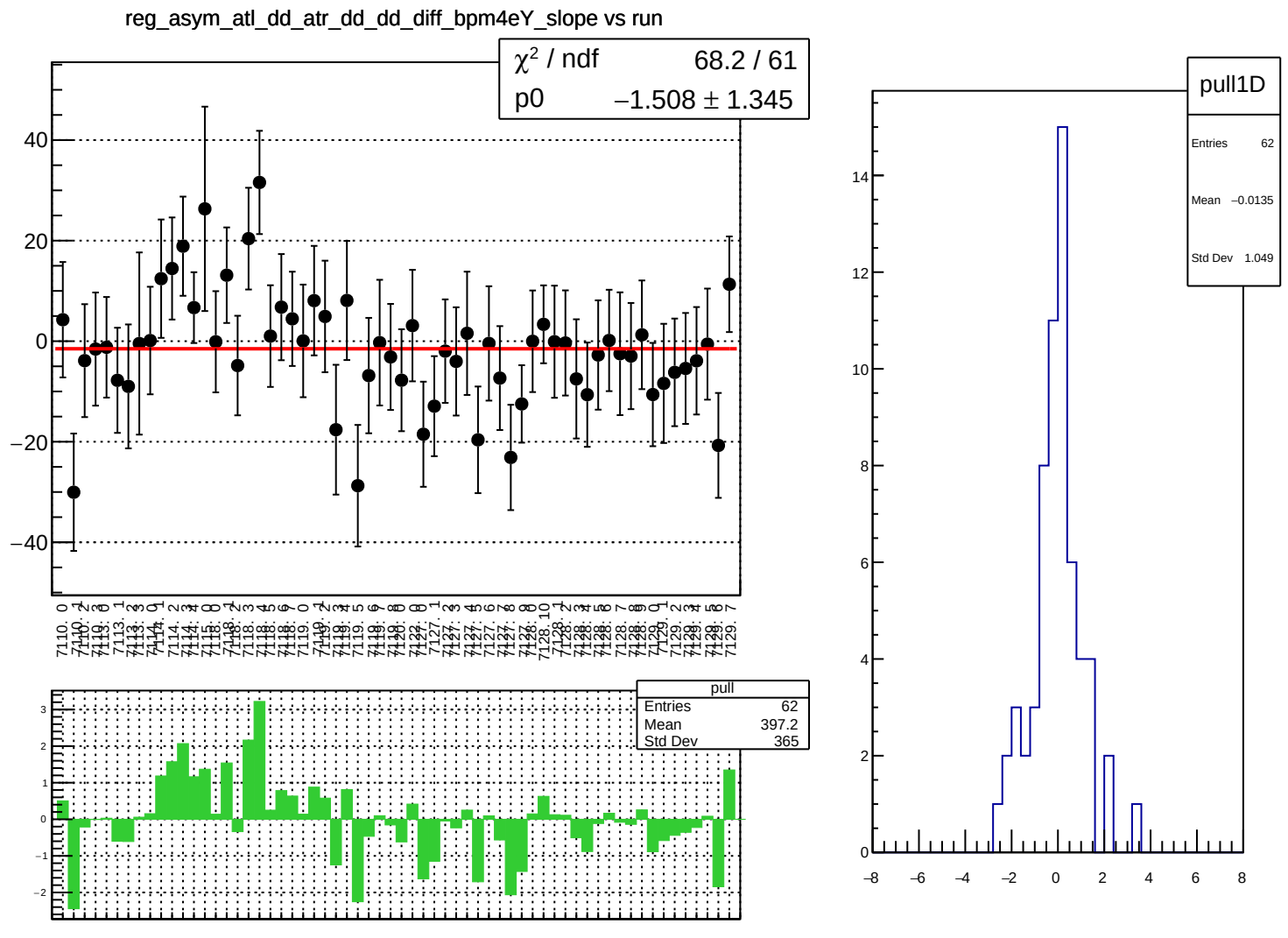

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 124.5 / 61
p0 25.41 ± 1.481
pull
Entries 62
Mean 95.18
Std Dev 56.95

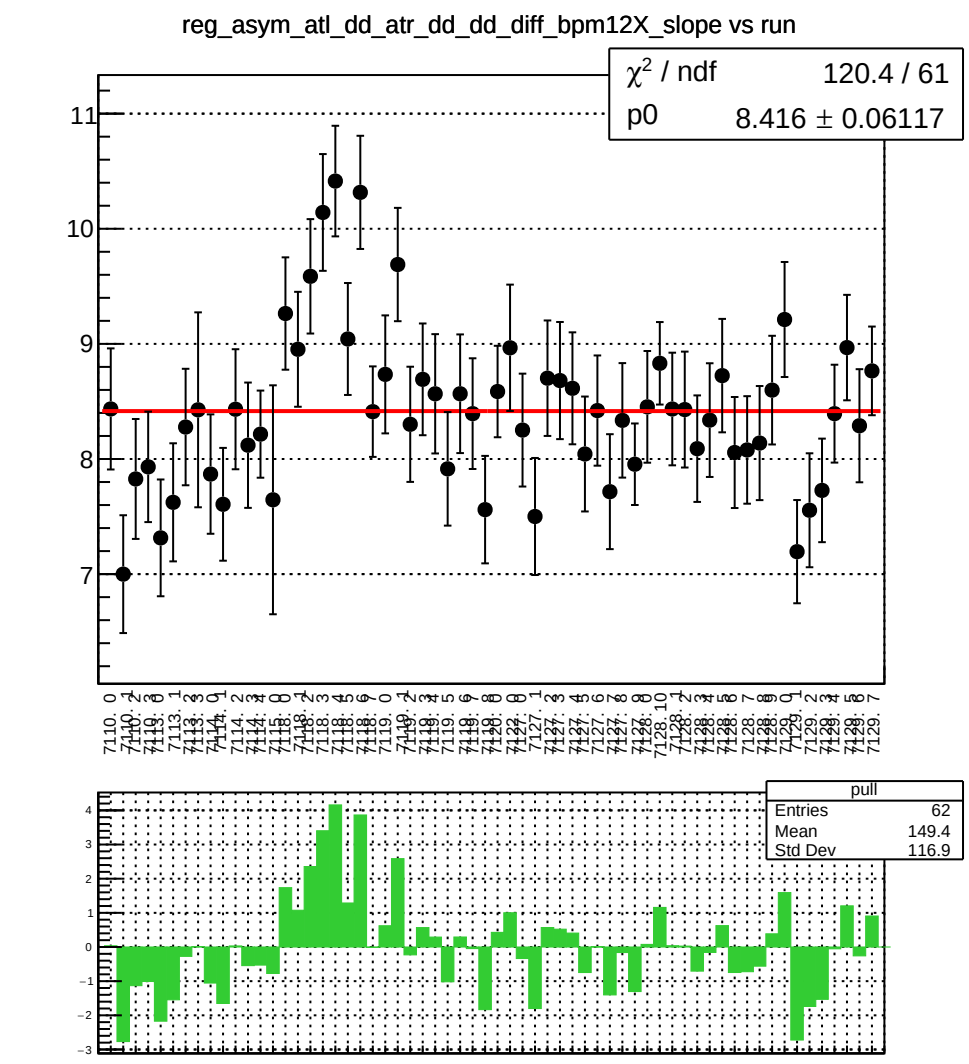

pull1D
Entries 62
Mean −0.1259
Std Dev 1.412

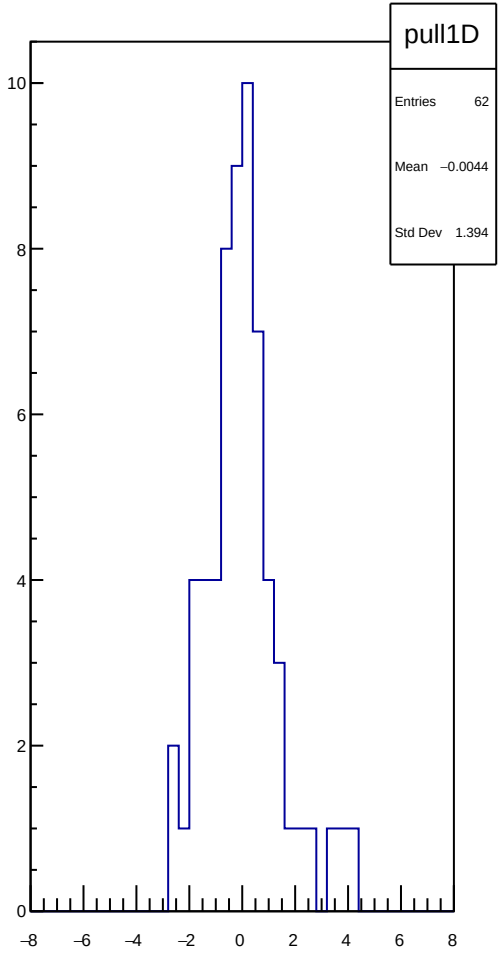

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 70.96 / 61
p0 −2.7 ± 1.273
pull
Entries 62
Mean 332.6
Std Dev 300.3

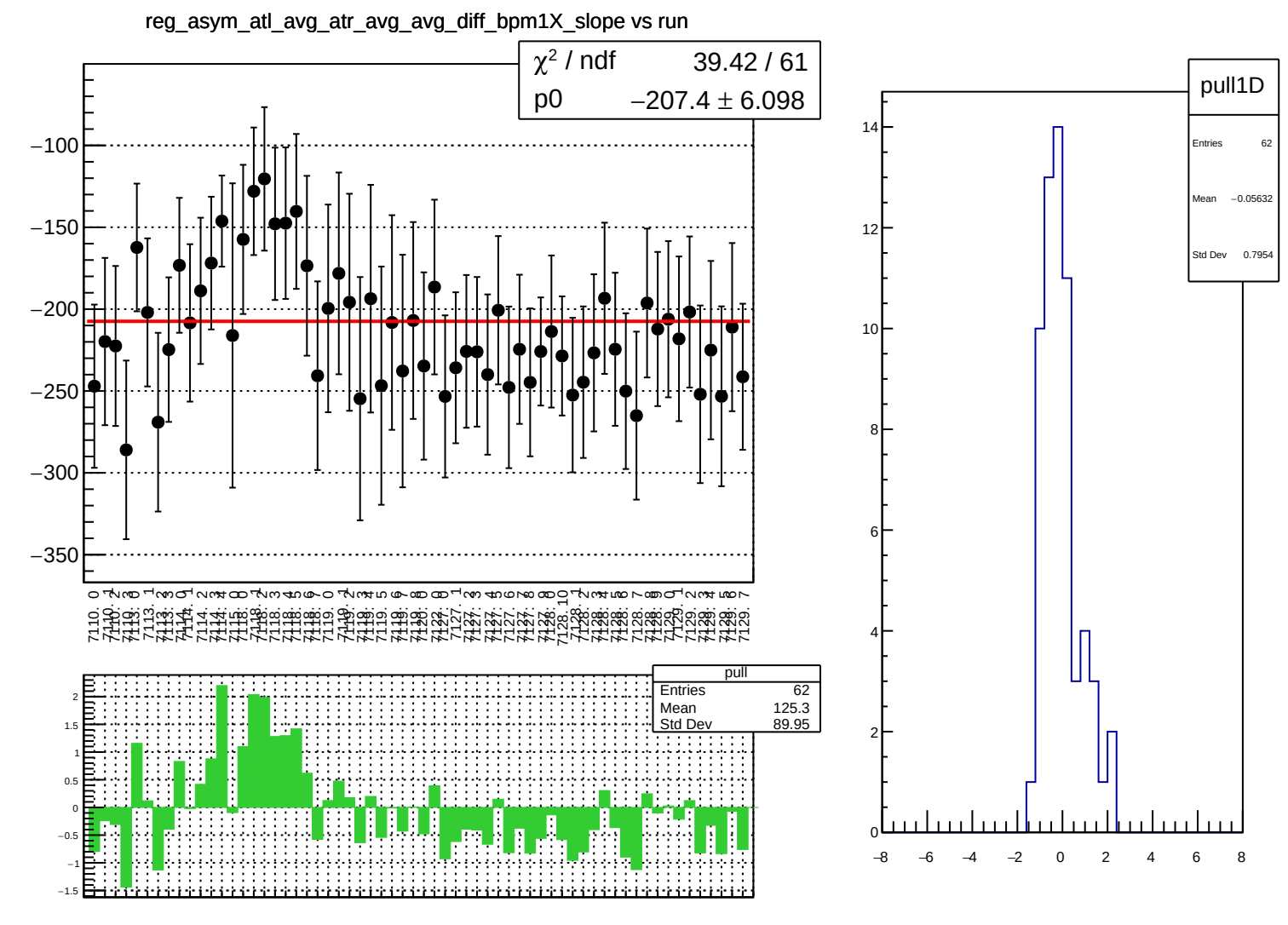

pull1D
Entries 62
Mean 0.01753
Std Dev 1.07

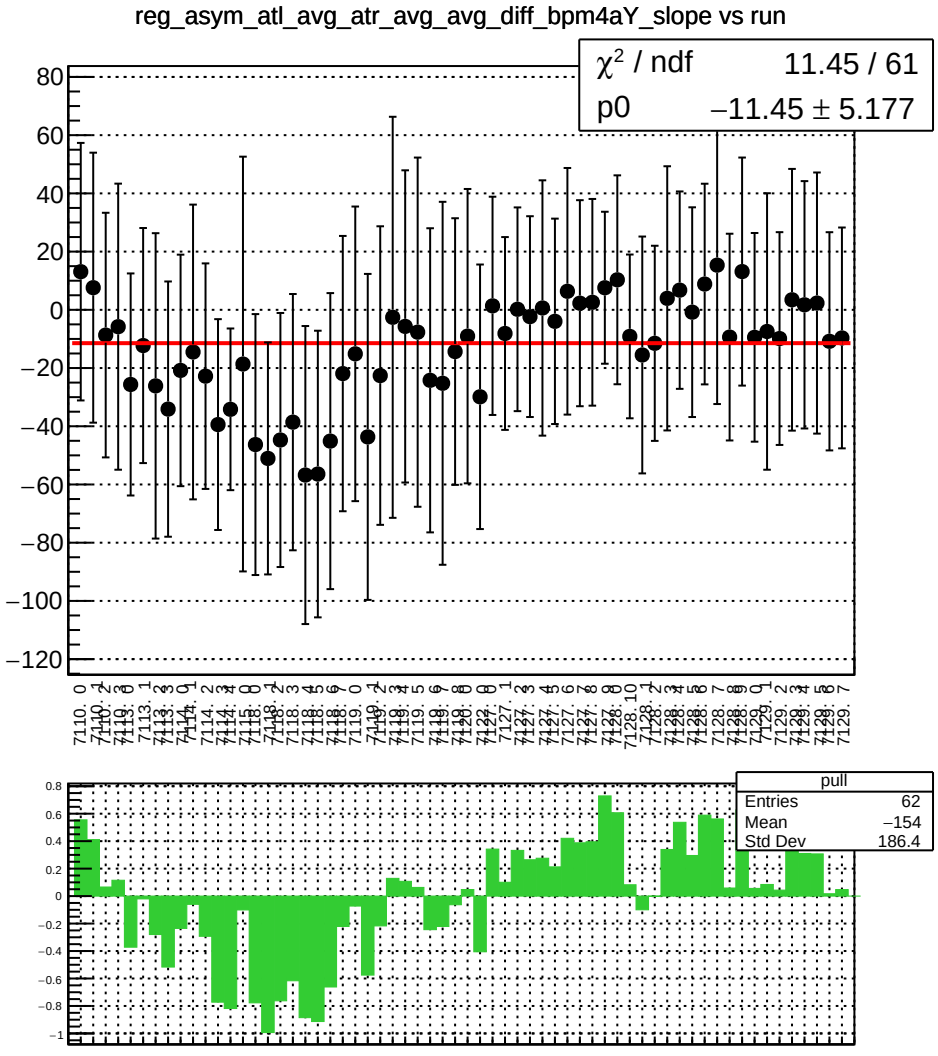

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 127.8 / 61
p0 40.05 ± 1.471
pull
Entries 62
Mean 94.27
Std Dev 56.21
pull1D
Entries 62
Mean 0.1336
Std Dev 1.43

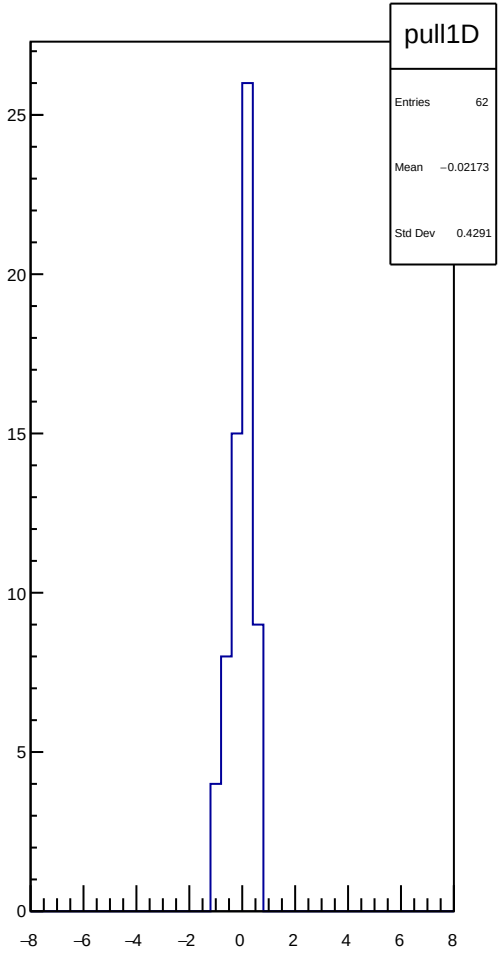

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 68.2 / 61
p0 −1.508 ± 1.345
pull
Entries 62
Mean 397.2
Std Dev 365
pull1D
Entries 62
Mean −0.0135
Std Dev 1.049

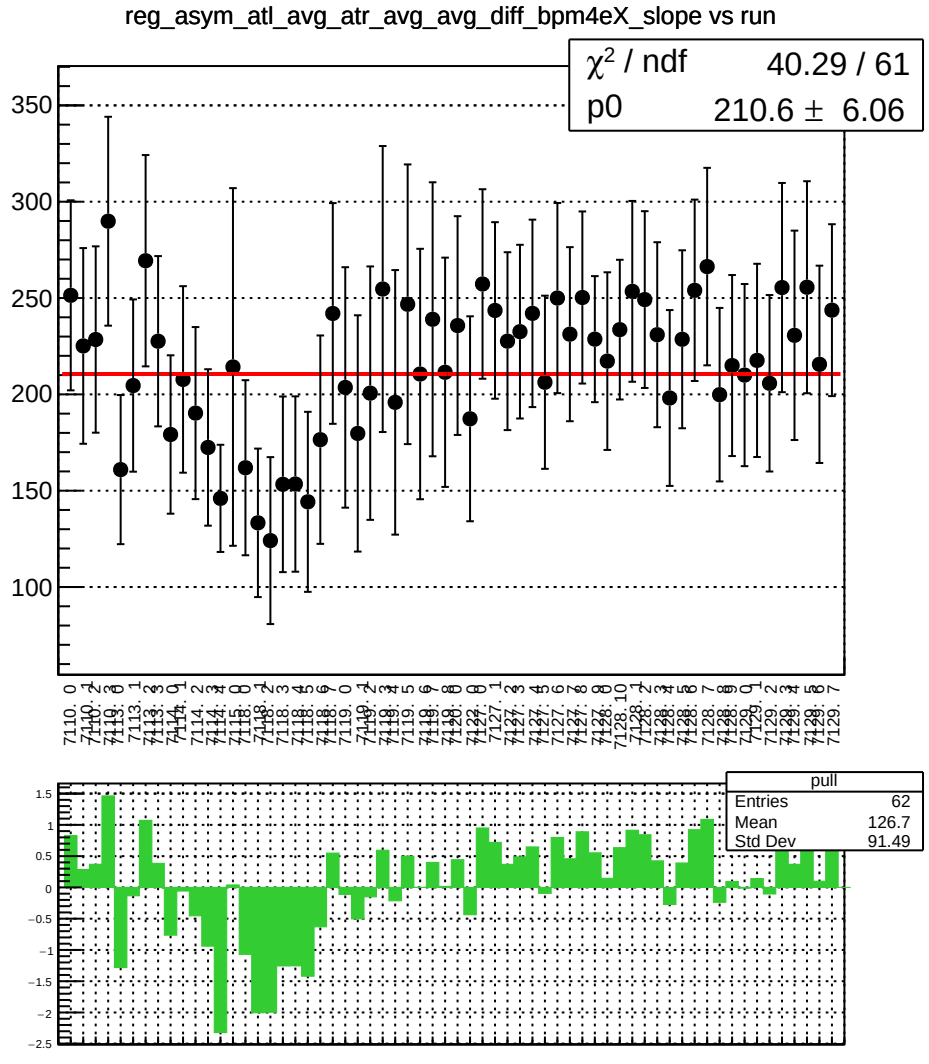

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 120.4 / 61
p0 8.416 ± 0.06117
pull
Entries 62
Mean 149.4
Std Dev 116.9

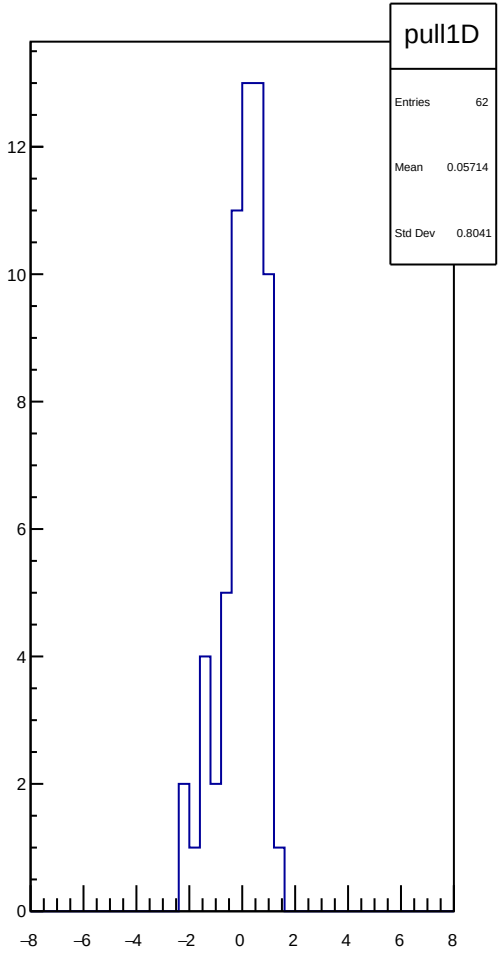

pull1D
Entries 62
Mean −0.0044
Std Dev 1.394

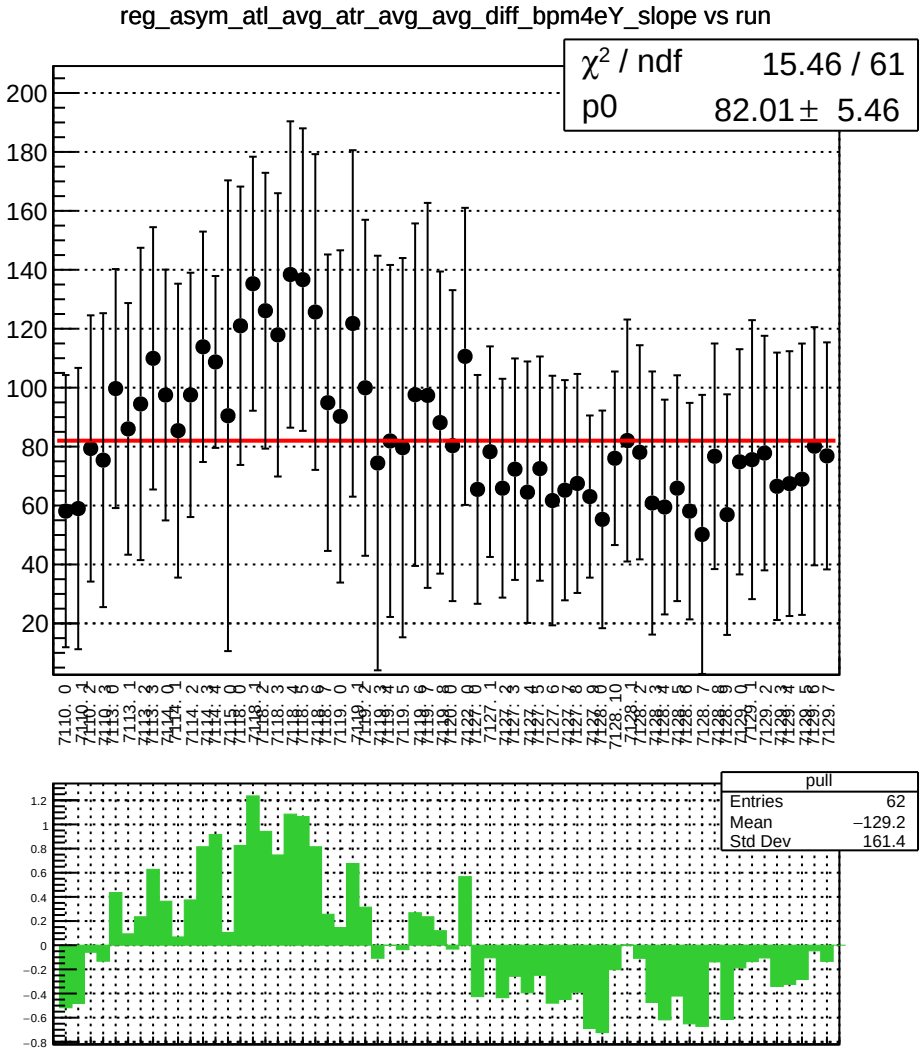

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 39.42 / 61
p0 −207.4 ± 6.098
pull
Entries 62
Mean 125.3
Std Dev 89.95
pull1D
Entries 62
Mean −0.05632
Std Dev 0.7954

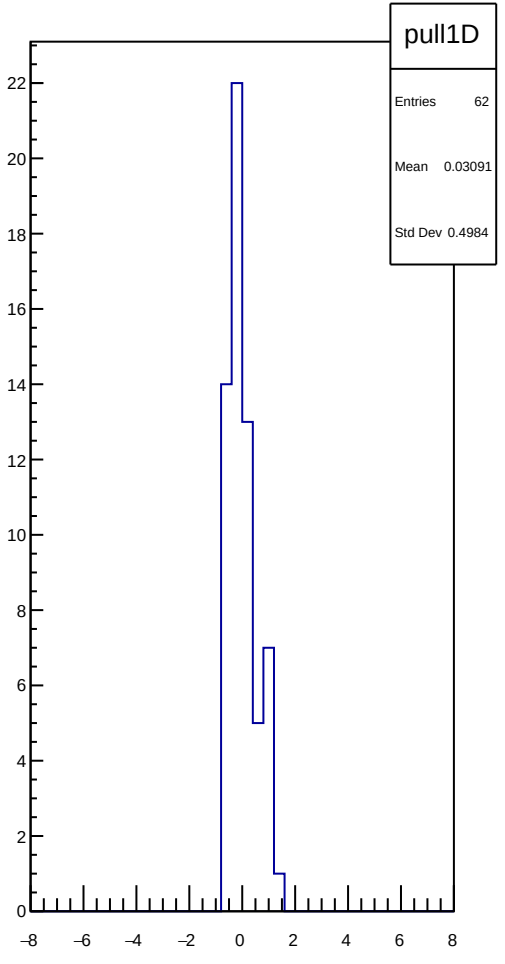

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.45 / 61
p0 −11.45 ± 5.177
pull
Entries 62
Mean −154
Std Dev 186.4

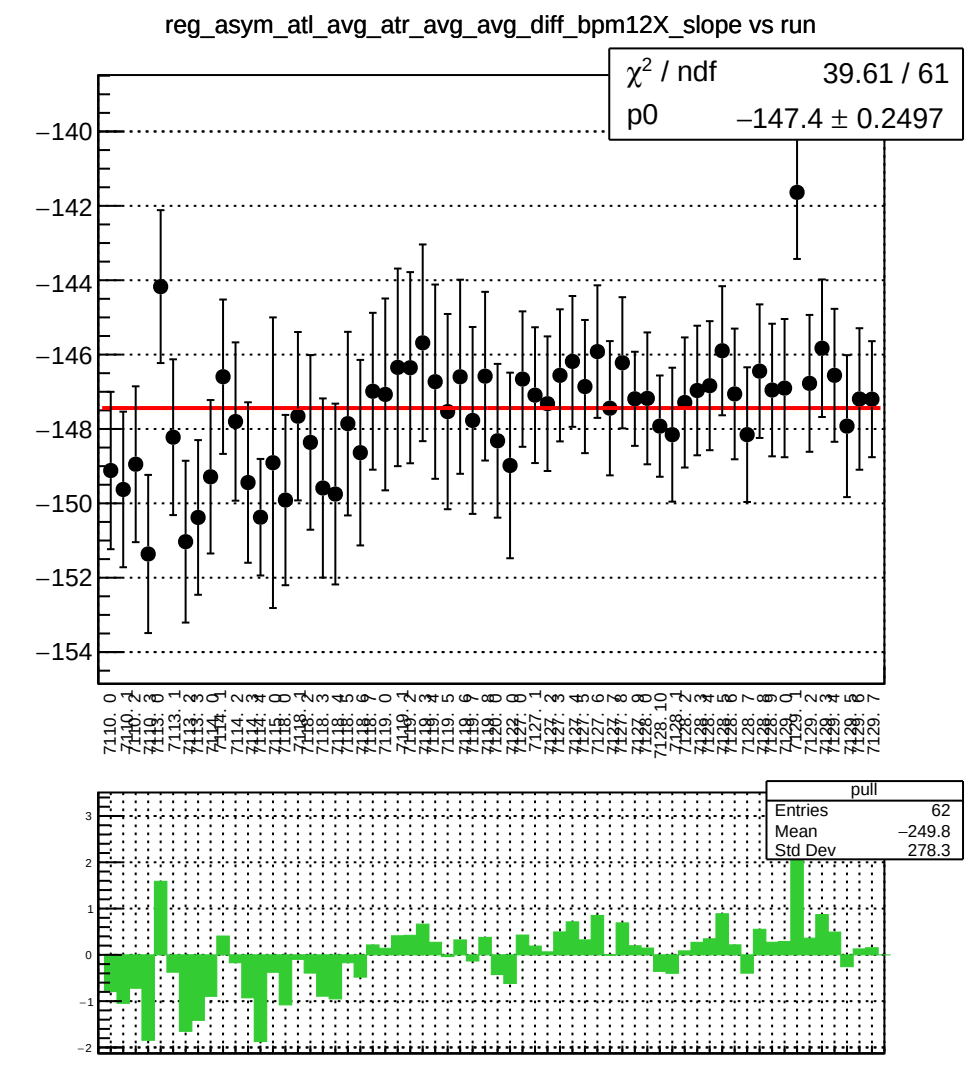

pull1D
Entries 62
Mean −0.02173
Std Dev 0.4291

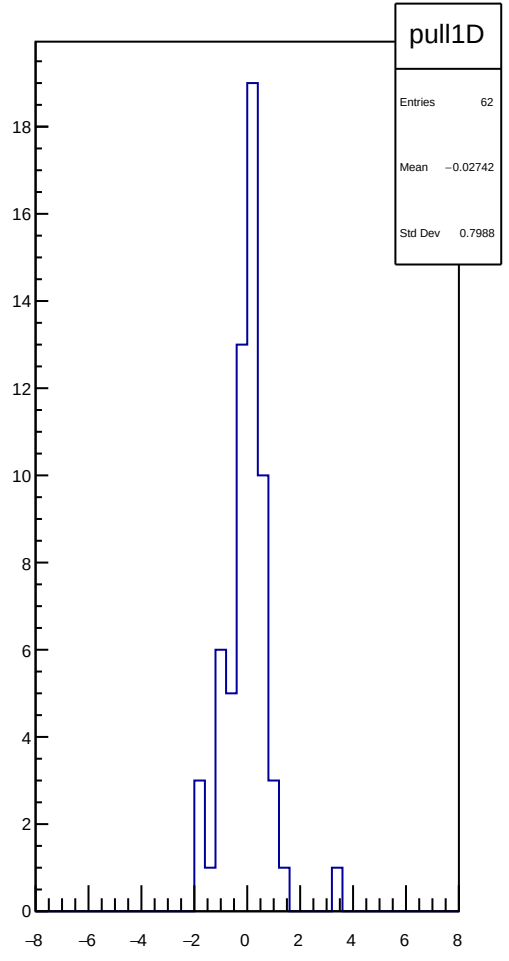

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.29 / 61
p0 210.6 ± 6.06
pull
Entries 62
Mean 126.7
Std Dev 91.49

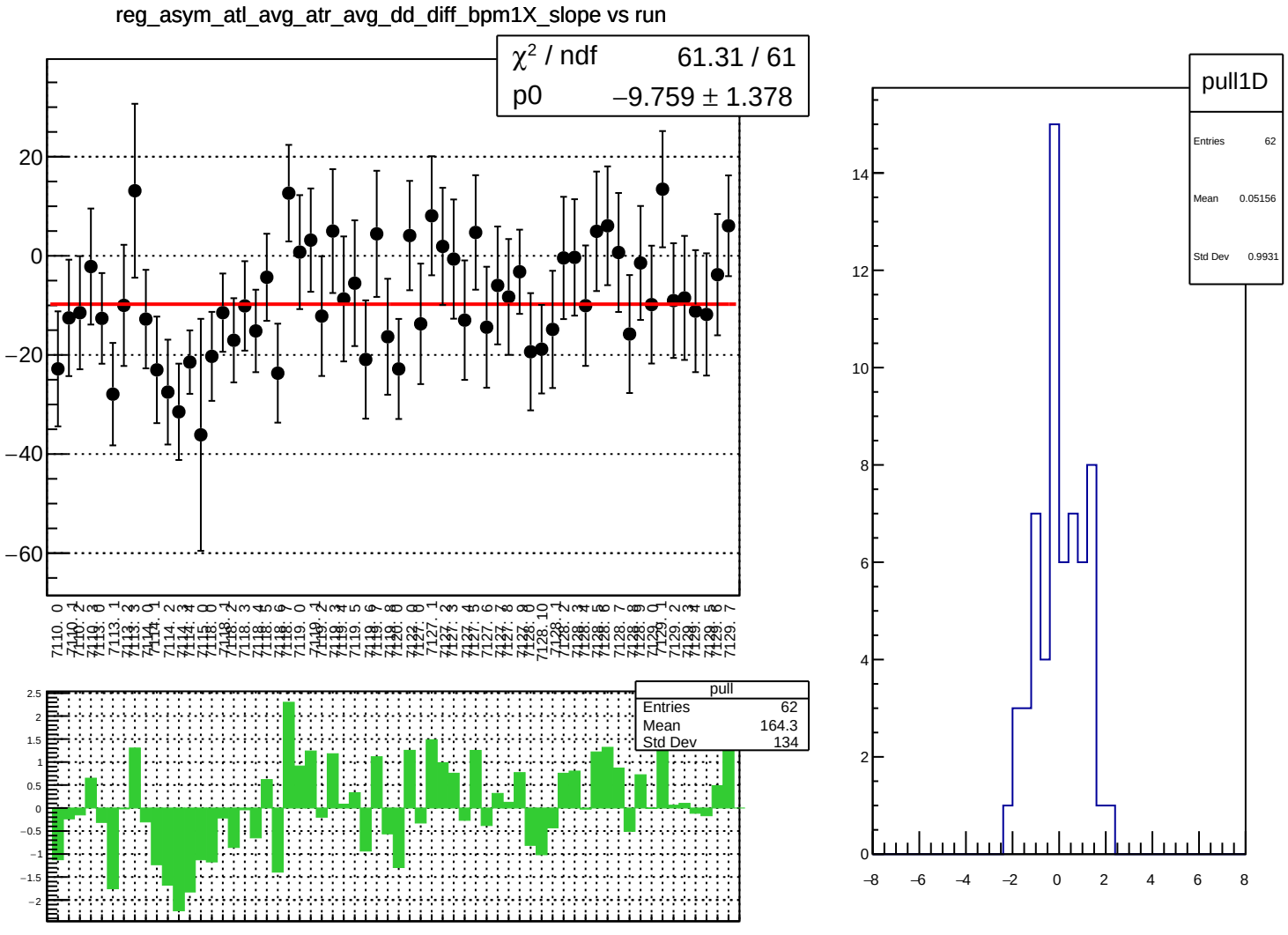

pull1D
Entries 62
Mean 0.05714
Std Dev 0.8041

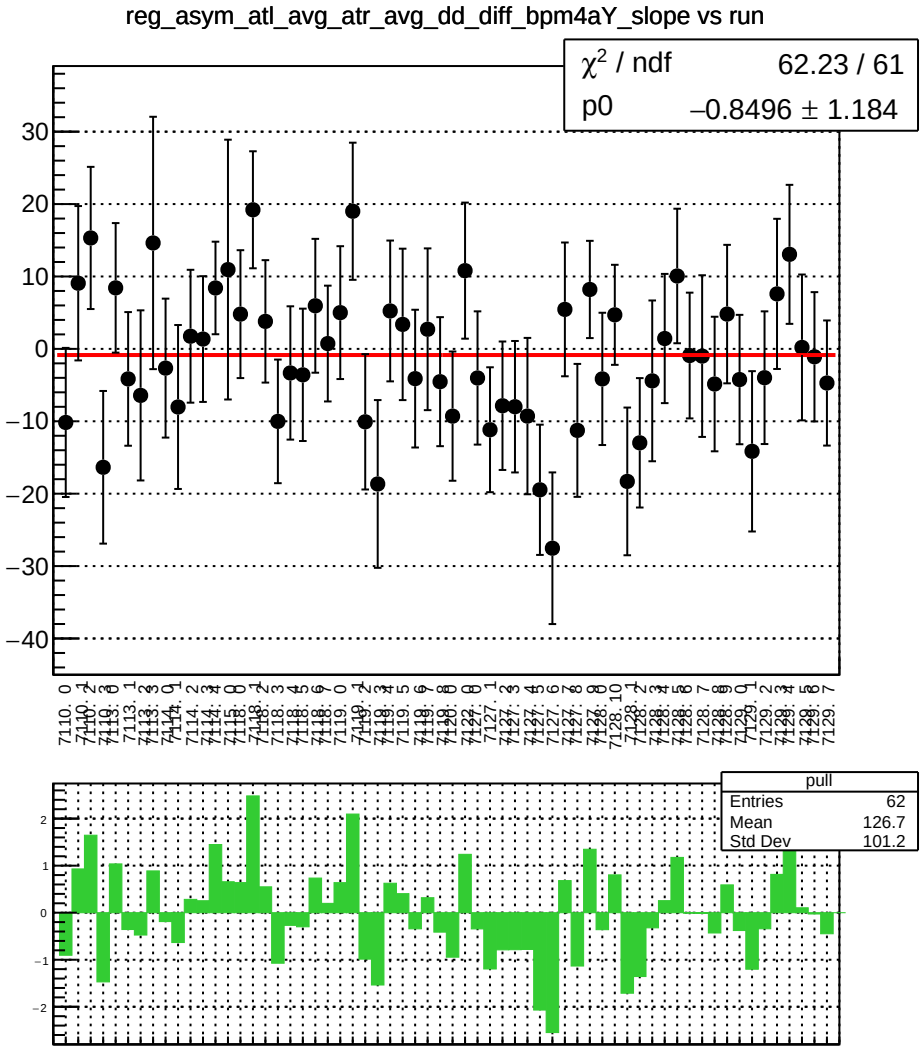

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.46 / 61
p0 82.01 ± 5.46
pull
Entries 62
Mean −129.2
Std Dev 161.4

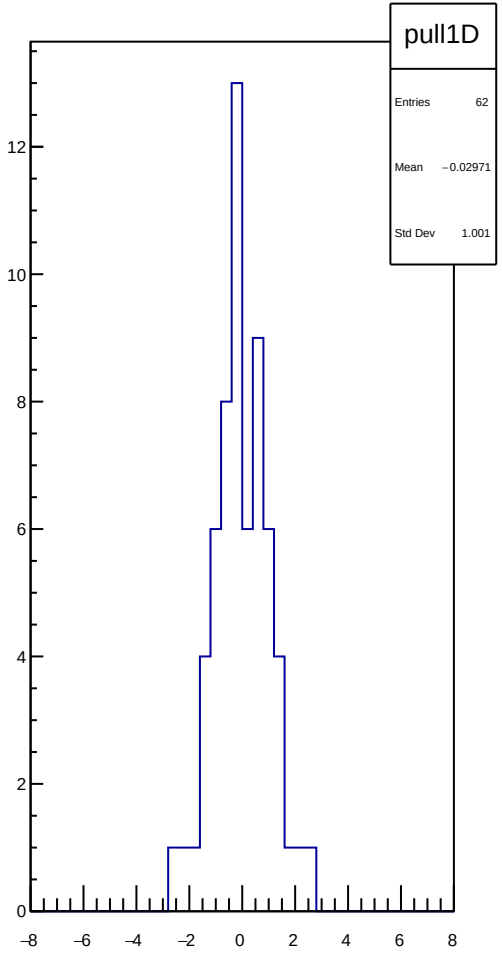

pull1D
Entries 62
Mean 0.03091
Std Dev 0.4984

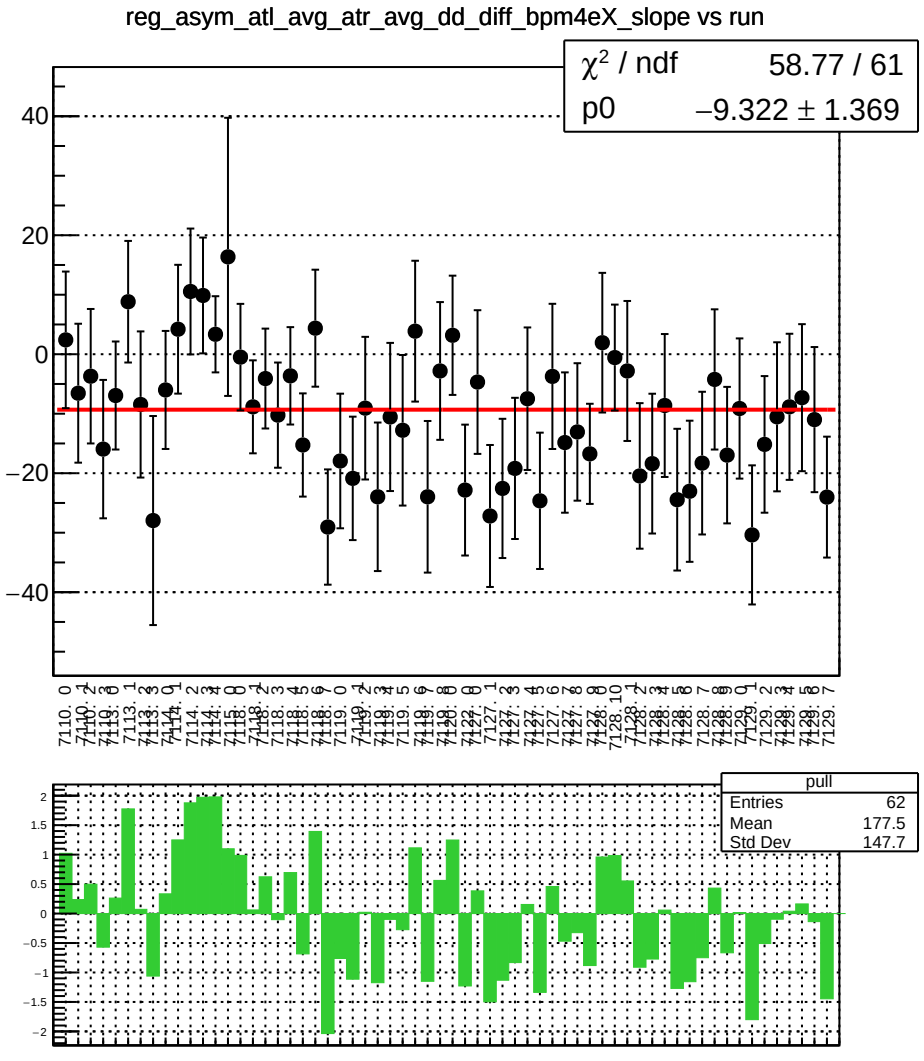

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 39.61 / 61
p0 −147.4 ± 0.2497
pull
Entries 62
Mean −249.8
Std Dev 278.3

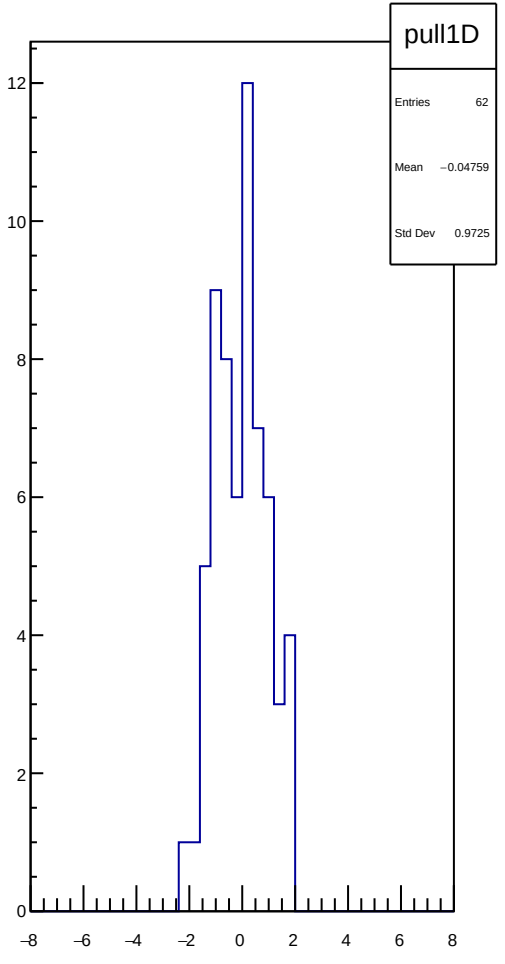

pull1D
Entries 62
Mean −0.02742
Std Dev 0.7988

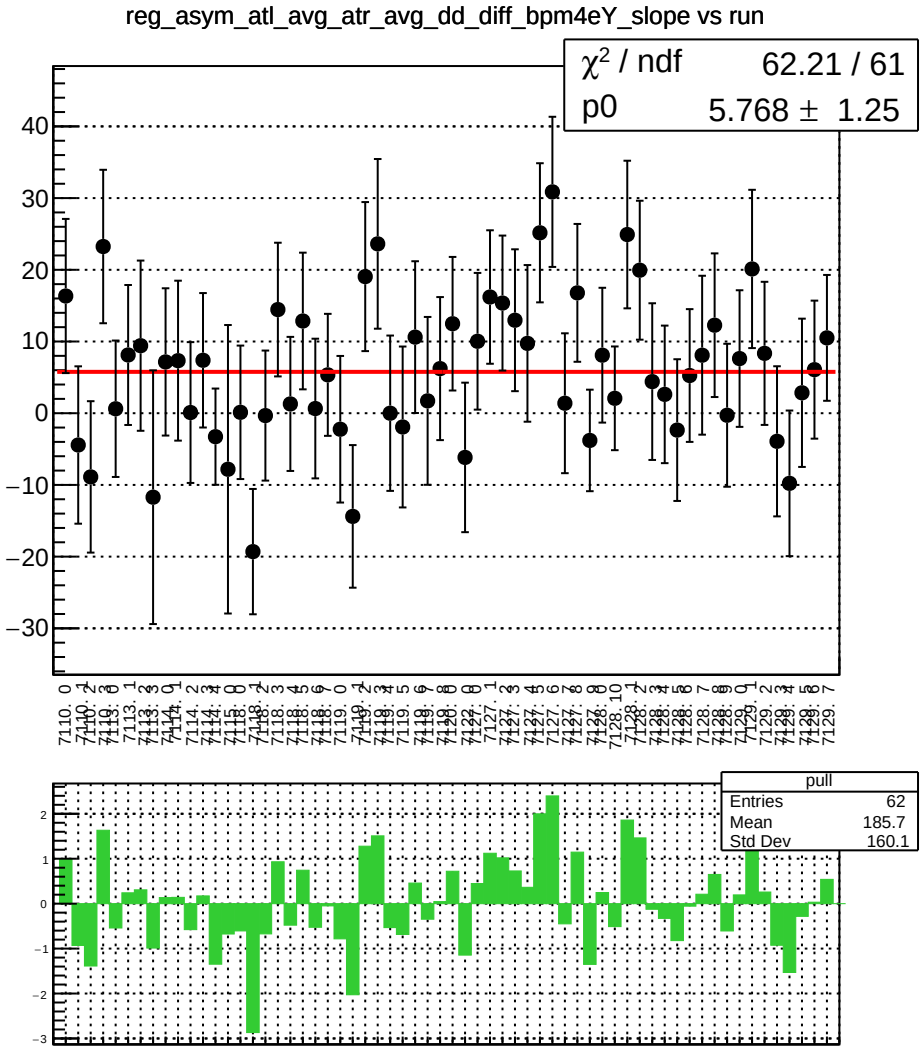

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 61.31 / 61
p0 −9.759 ± 1.378
pull
Entries 62
Mean 164.3
Std Dev 134
pull1D
Entries 62
Mean 0.05156
Std Dev 0.9931

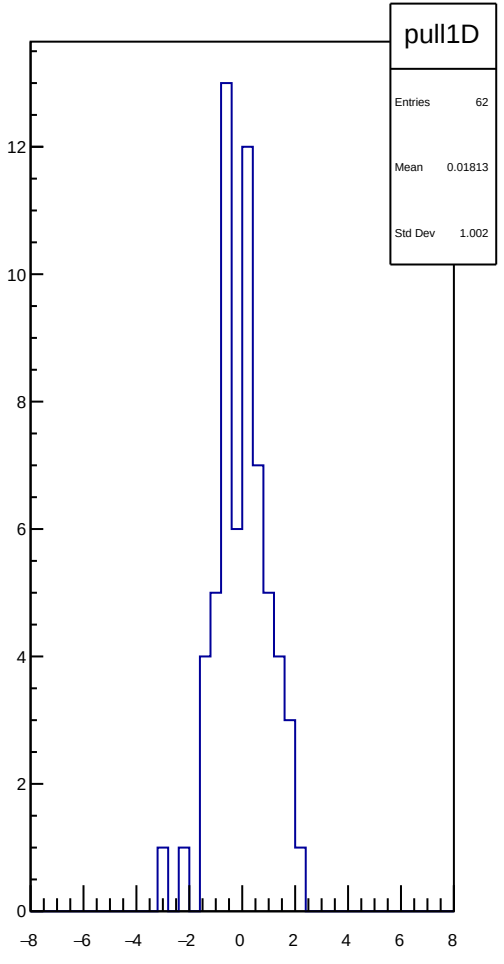

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 62.23 / 61
p0 −0.8496 ± 1.184
pull
Entries 62
Mean 126.7
Std Dev 101.2

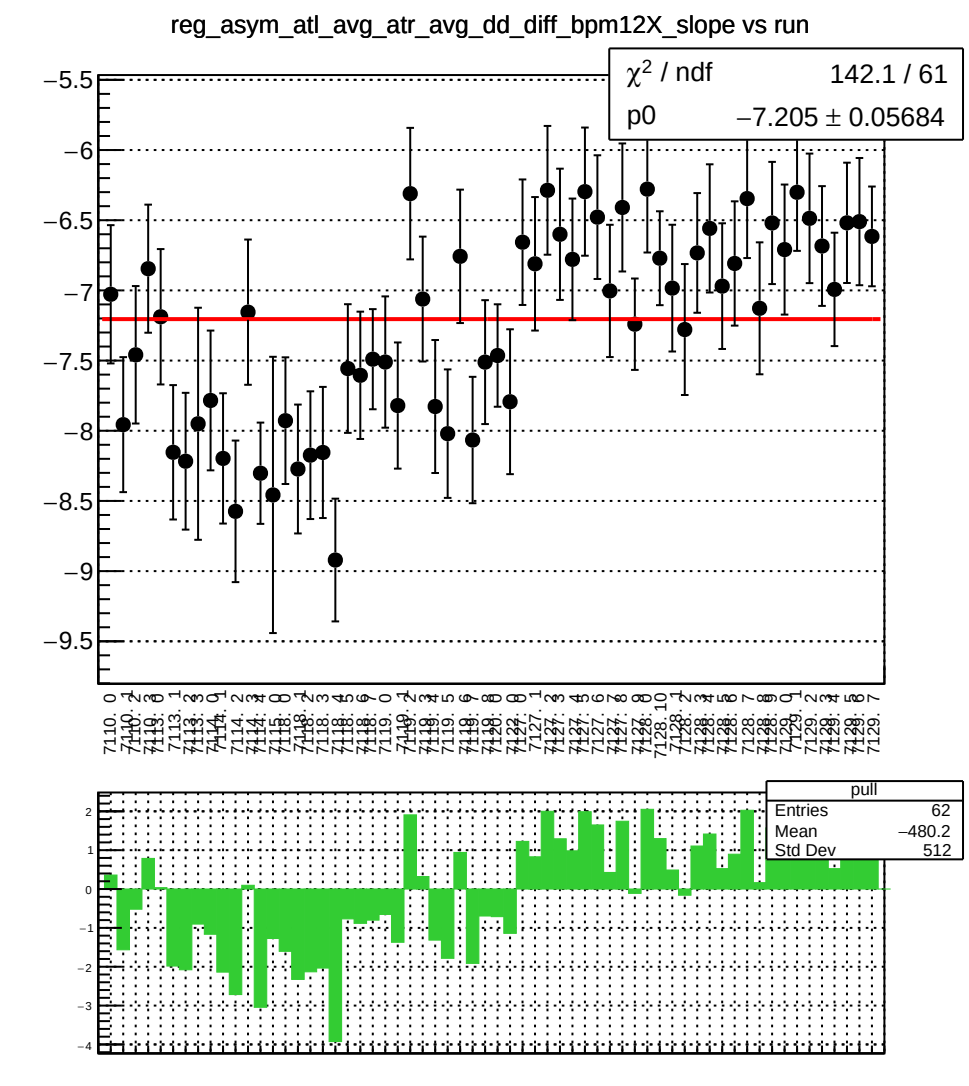

pull1D
Entries 62
Mean −0.02971
Std Dev 1.001

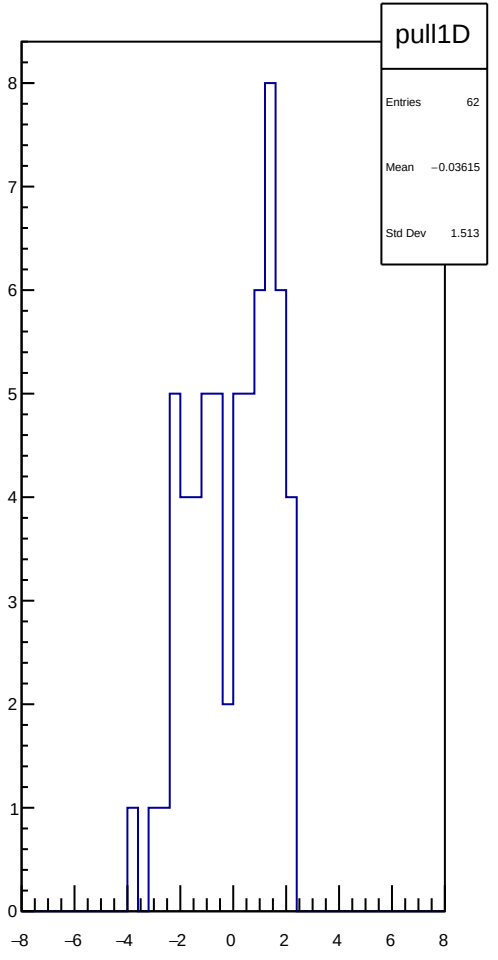

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.77 / 61
p0 −9.322 ± 1.369
pull
Entries 62
Mean 177.5
Std Dev 147.7

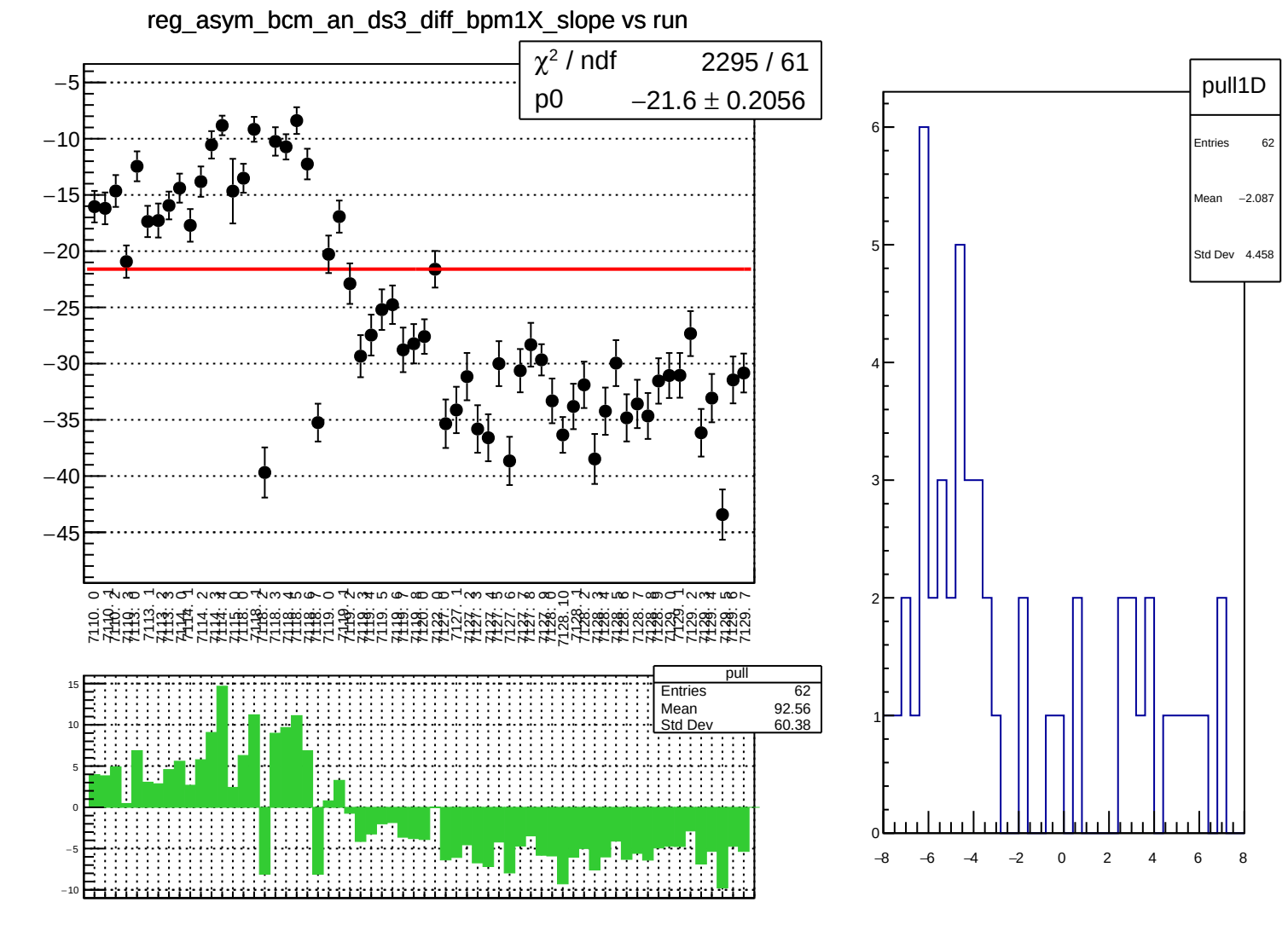

pull1D
Entries 62
Mean −0.04759
Std Dev 0.9725

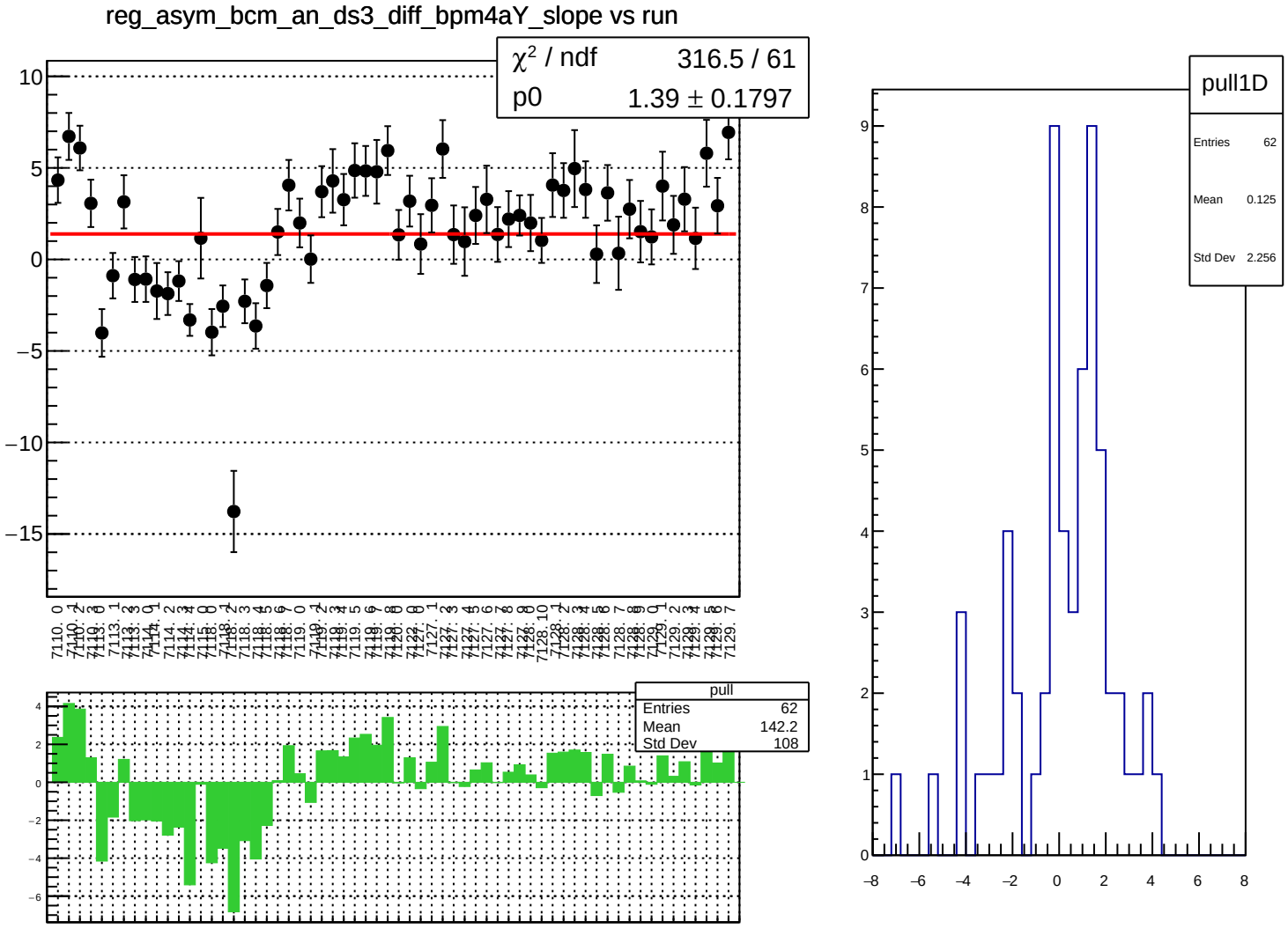

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.21 / 61
p0 5.768 ± 1.25
pull
Entries 62
Mean 185.7
Std Dev 160.1

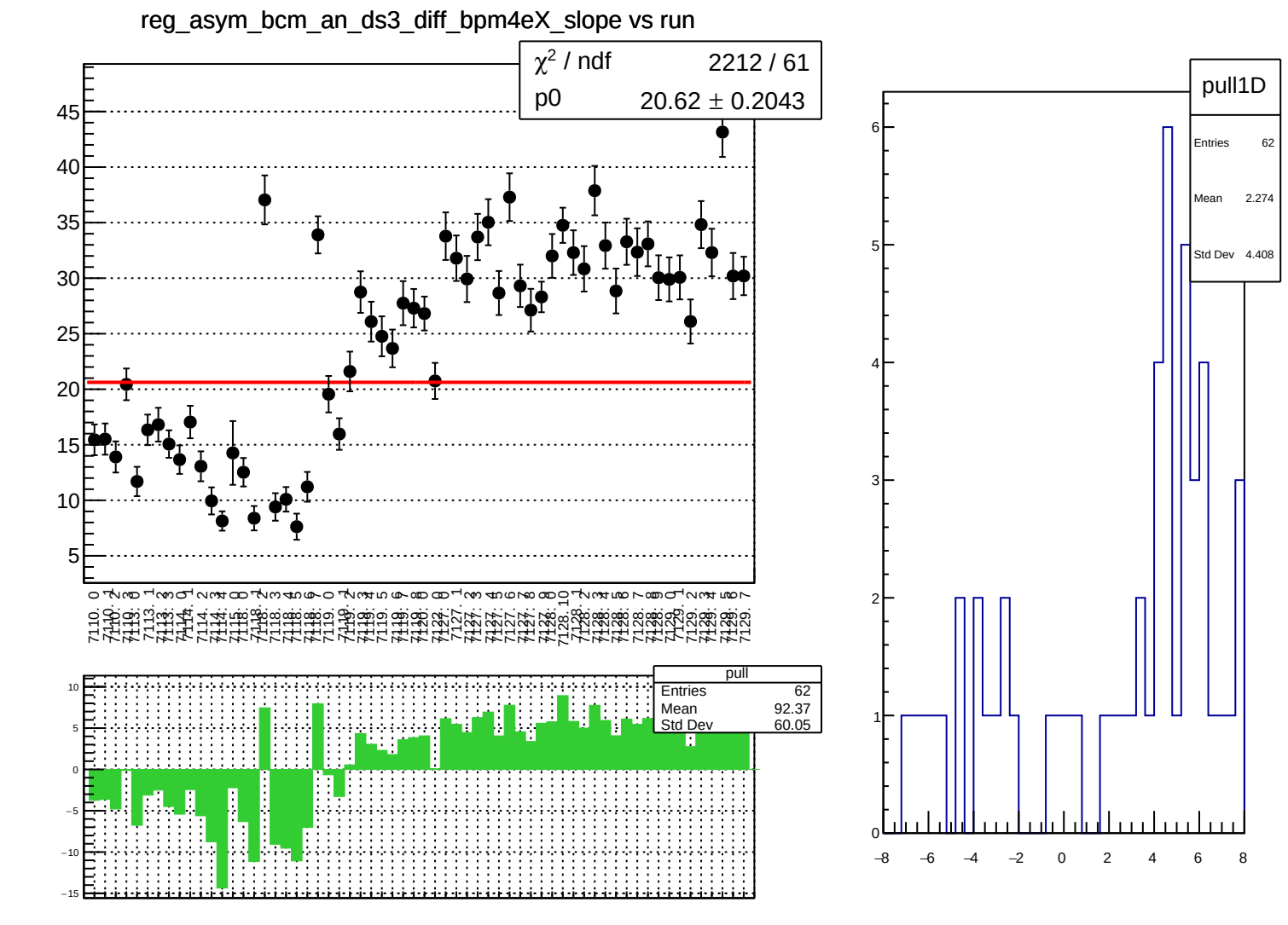

pull1D
Entries 62
Mean 0.01813
Std Dev 1.002

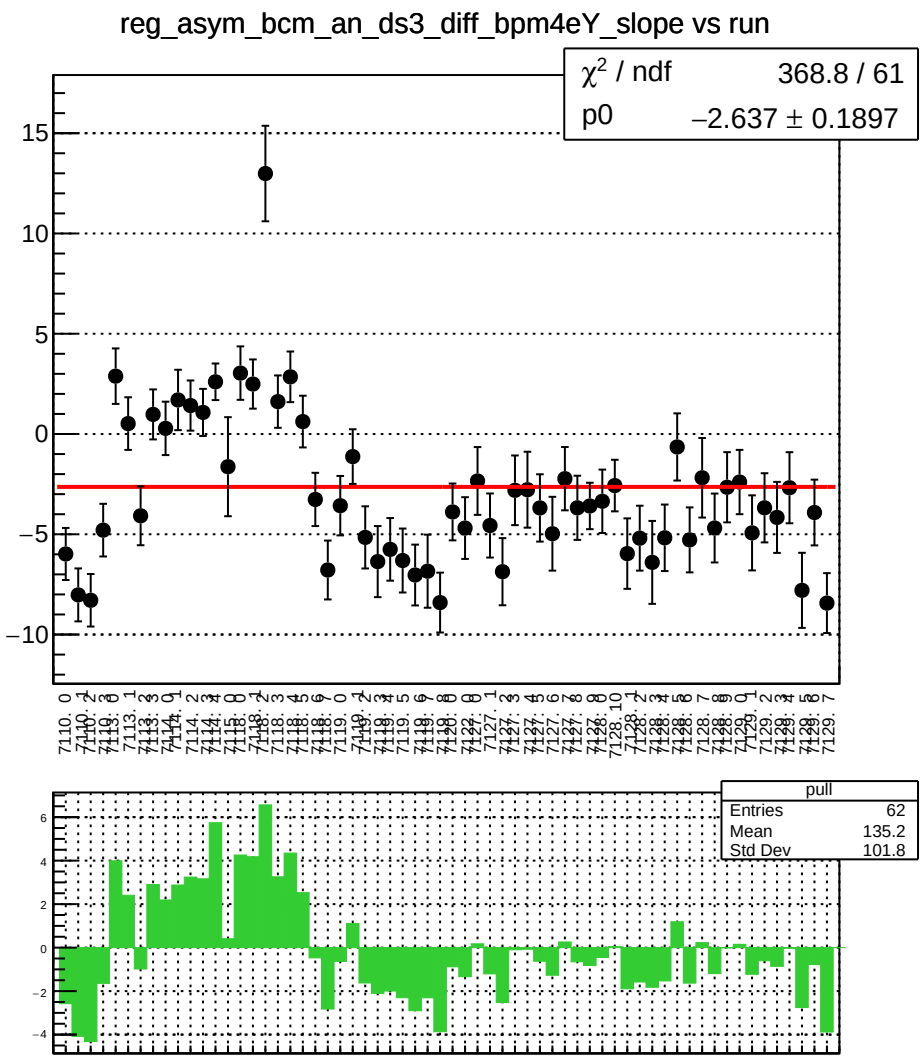

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 142.1 / 61
p0 −7.205 ± 0.05684
pull
Entries 62
Mean −480.2
Std Dev 512

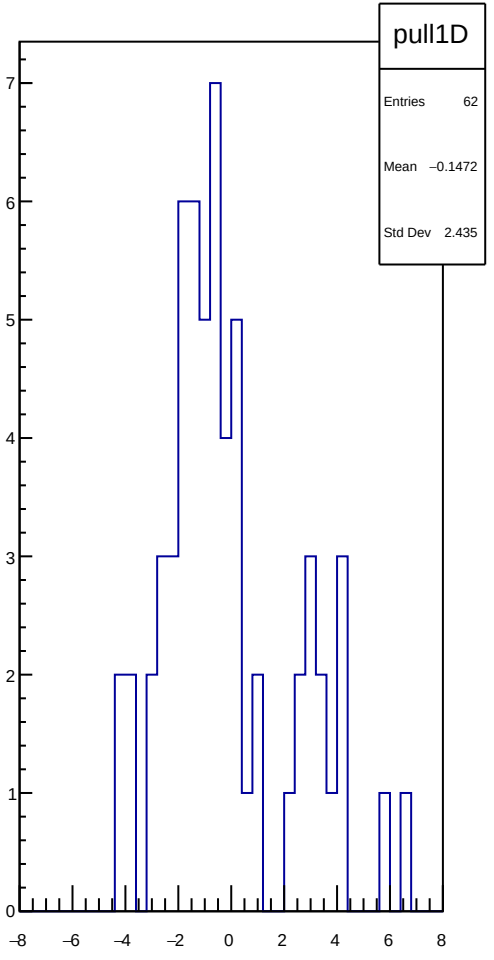

pull1D
Entries 62
Mean −0.03615
Std Dev 1.513

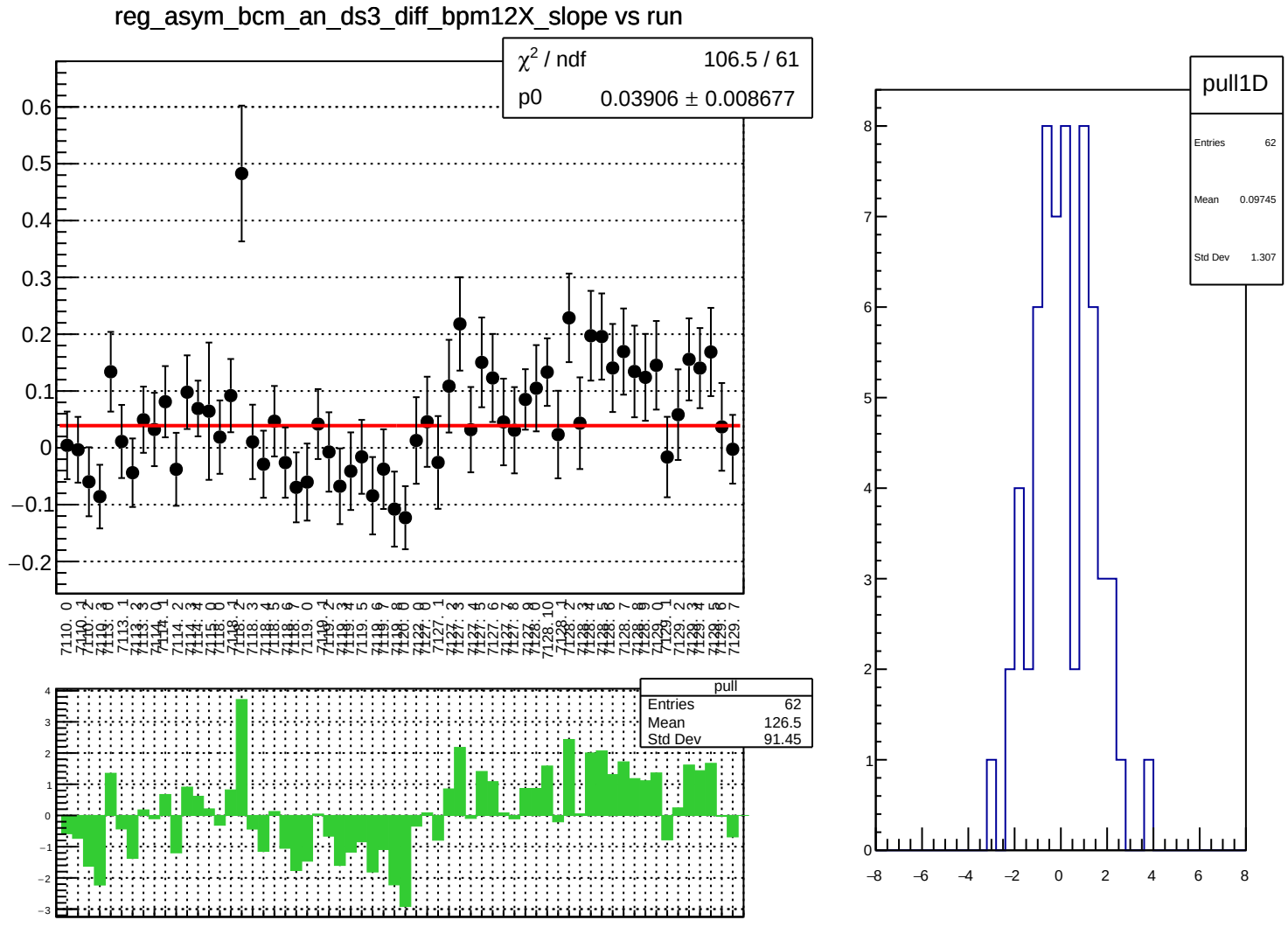

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 2295 / 61
p0 −21.6 ± 0.2056
pull
Entries 62
Mean 92.56
Std Dev 60.38
pull1D
Entries 62
Mean −2.087
Std Dev 4.458

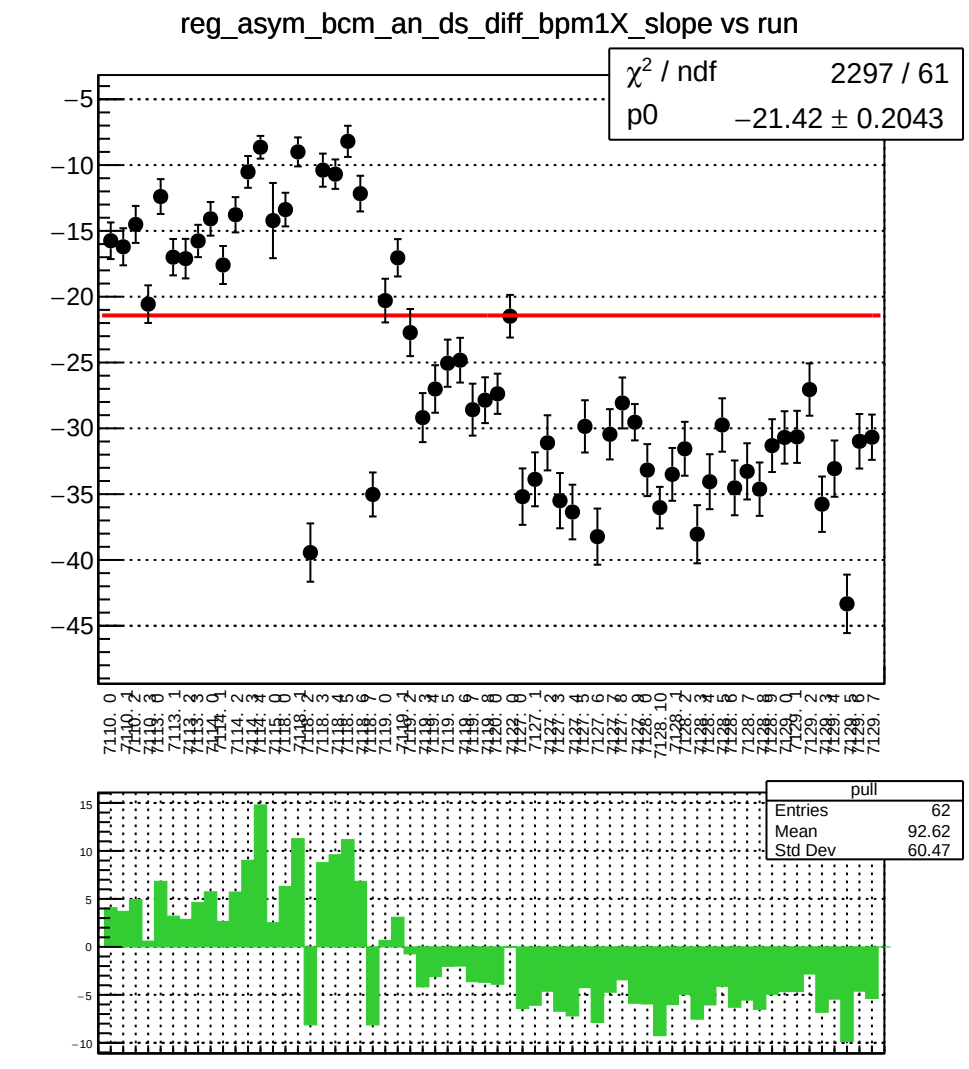

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 316.5 / 61
p0 1.39 ± 0.1797
pull
Entries 62
Mean 142.2
Std Dev 108
pull1D
Entries 62
Mean 0.125
Std Dev 2.256

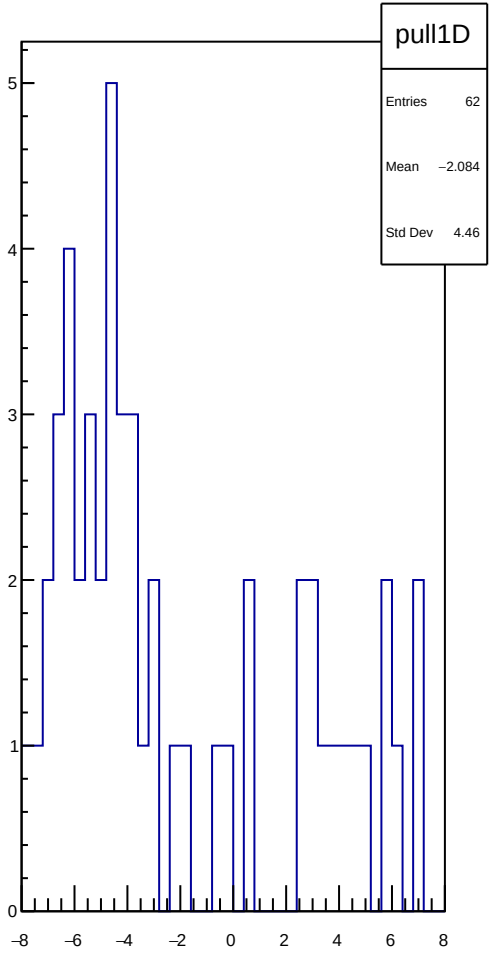

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 2212 / 61
p0 20.62 ± 0.2043
pull
Entries 62
Mean 92.37
Std Dev 60.05
pull1D
Entries 62
Mean 2.274
Std Dev 4.408

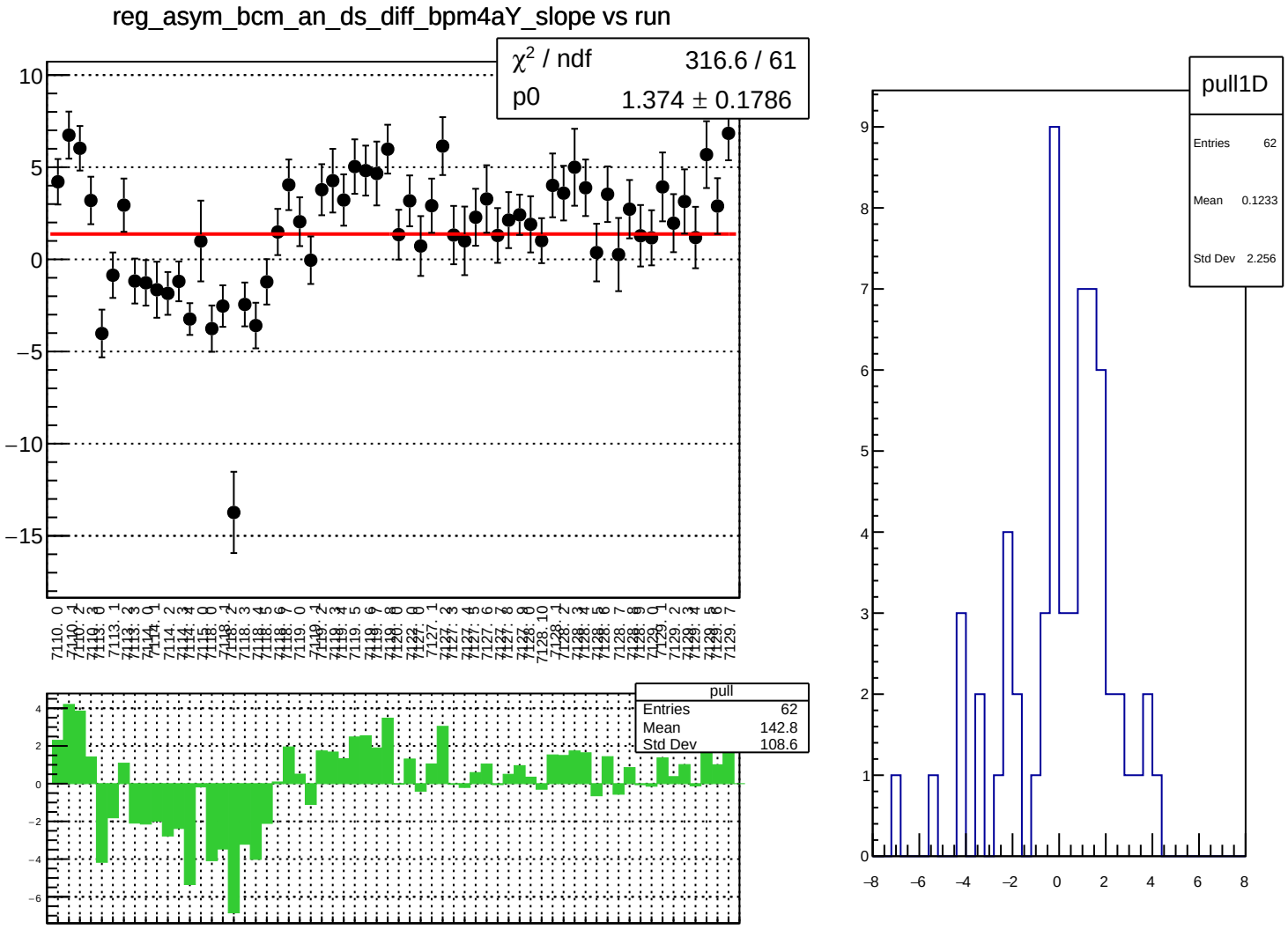

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 368.8 / 61
p0 −2.637 ± 0.1897
pull
Entries 62
Mean 135.2
Std Dev 101.8

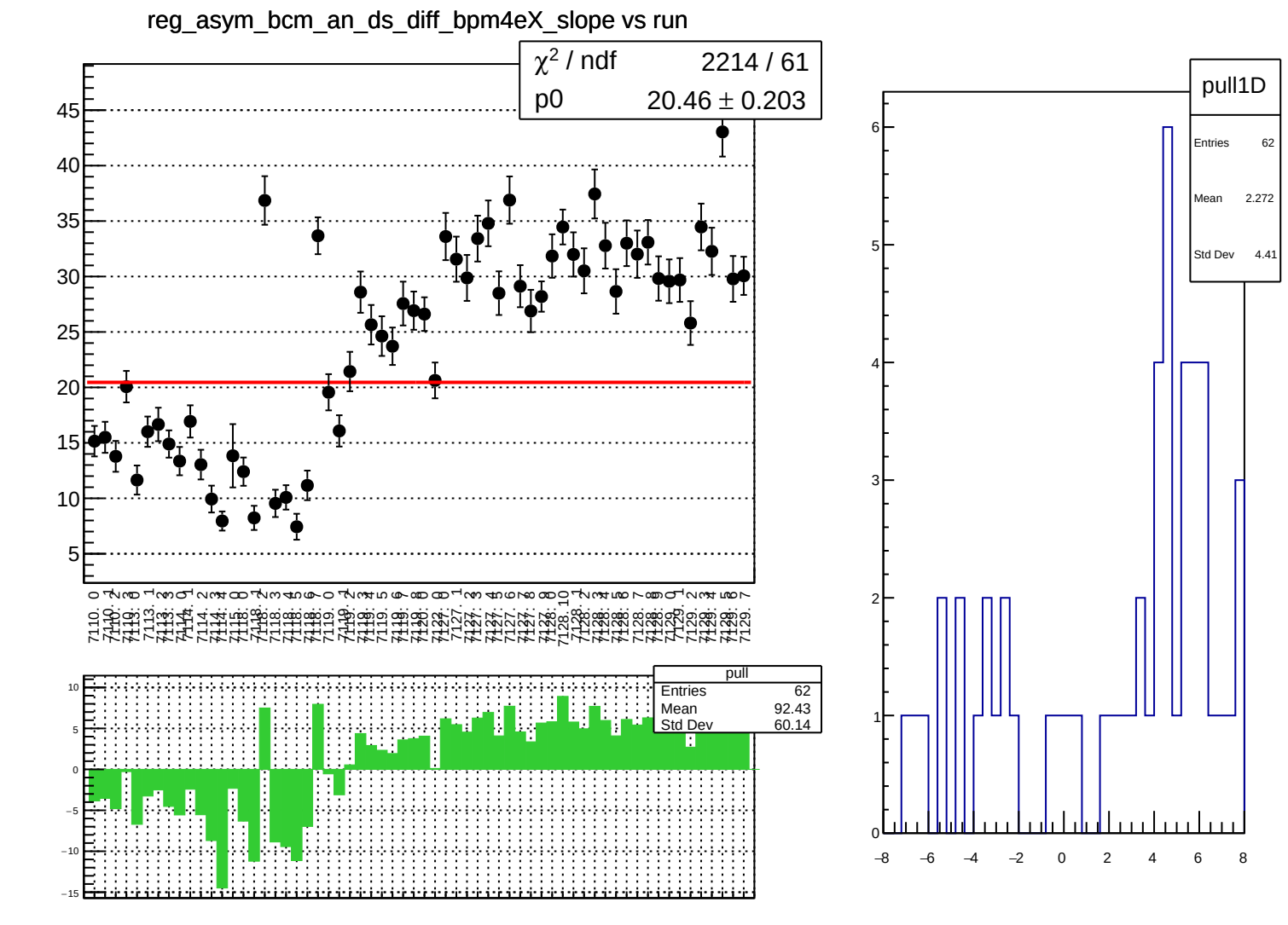

pull1D
Entries 62
Mean −0.1472
Std Dev 2.435

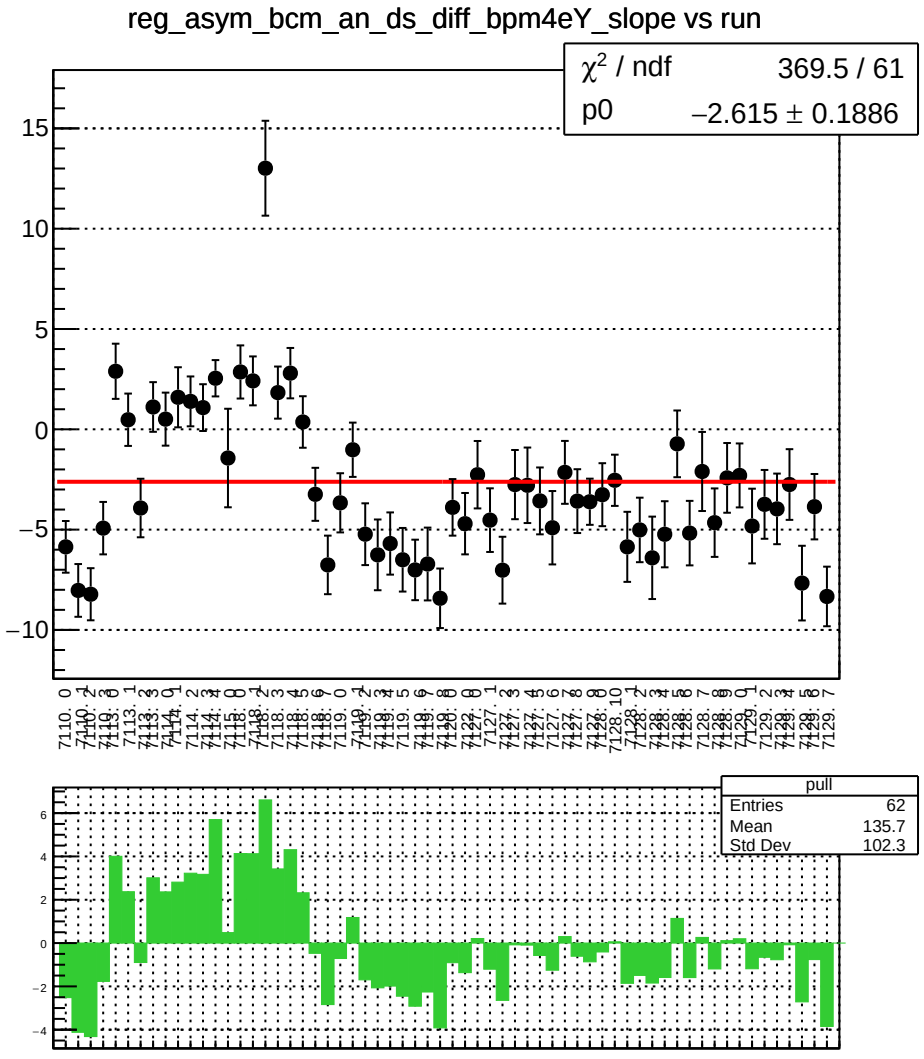

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 106.5 / 61
p0 0.03906 ± 0.008677
pull
Entries 62
Mean 126.5
Std Dev 91.45
pull1D
Entries 62
Mean 0.09745
Std Dev 1.307

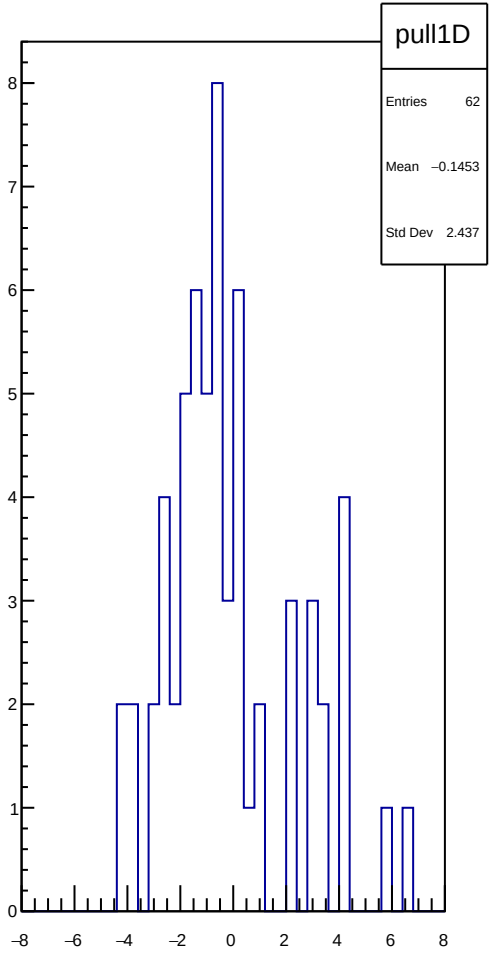

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 2297 / 61
p0 −21.42 ± 0.2043
pull
Entries 62
Mean 92.62
Std Dev 60.47

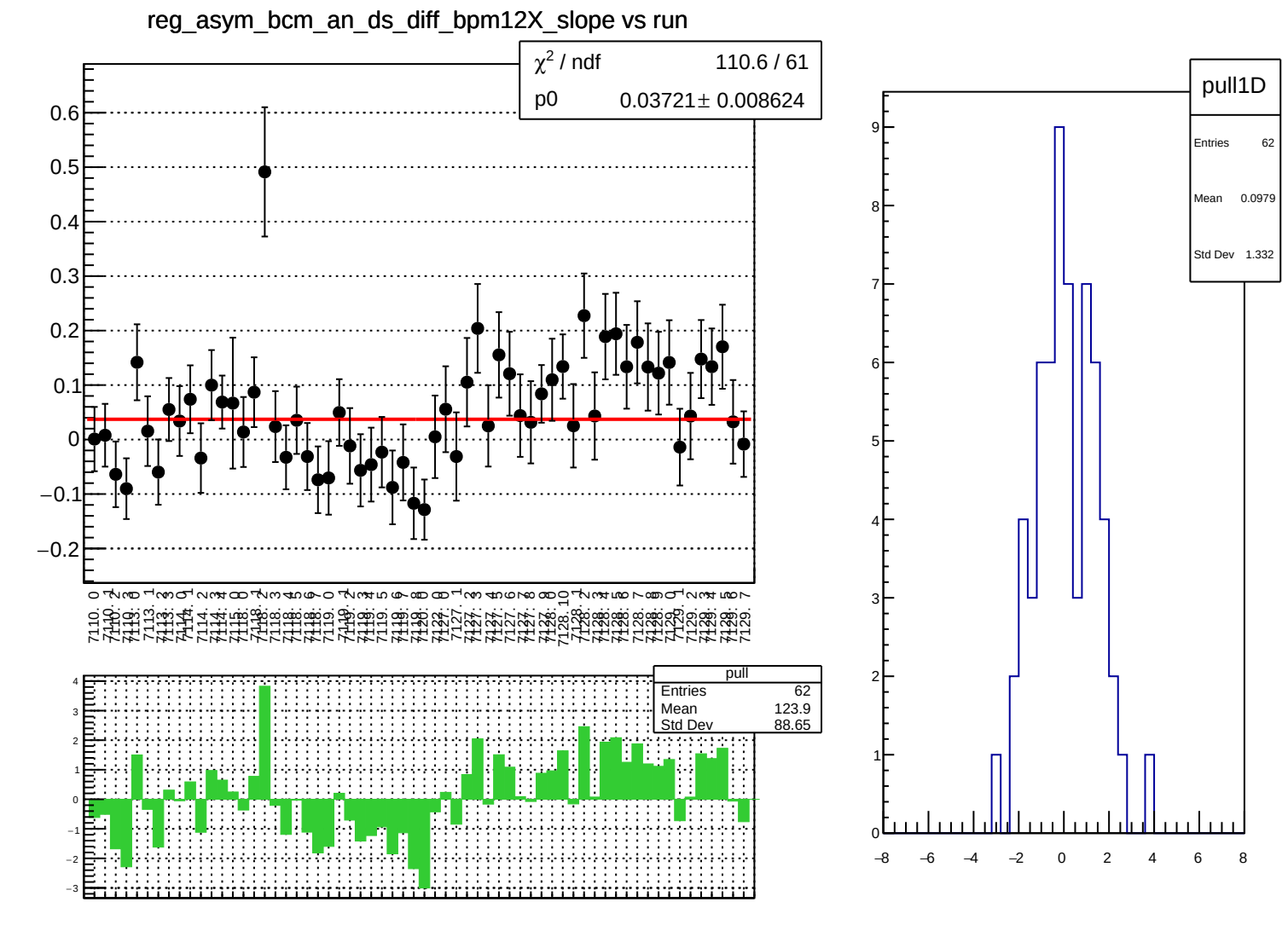

pull1D
Entries 62
Mean −2.084
Std Dev 4.46

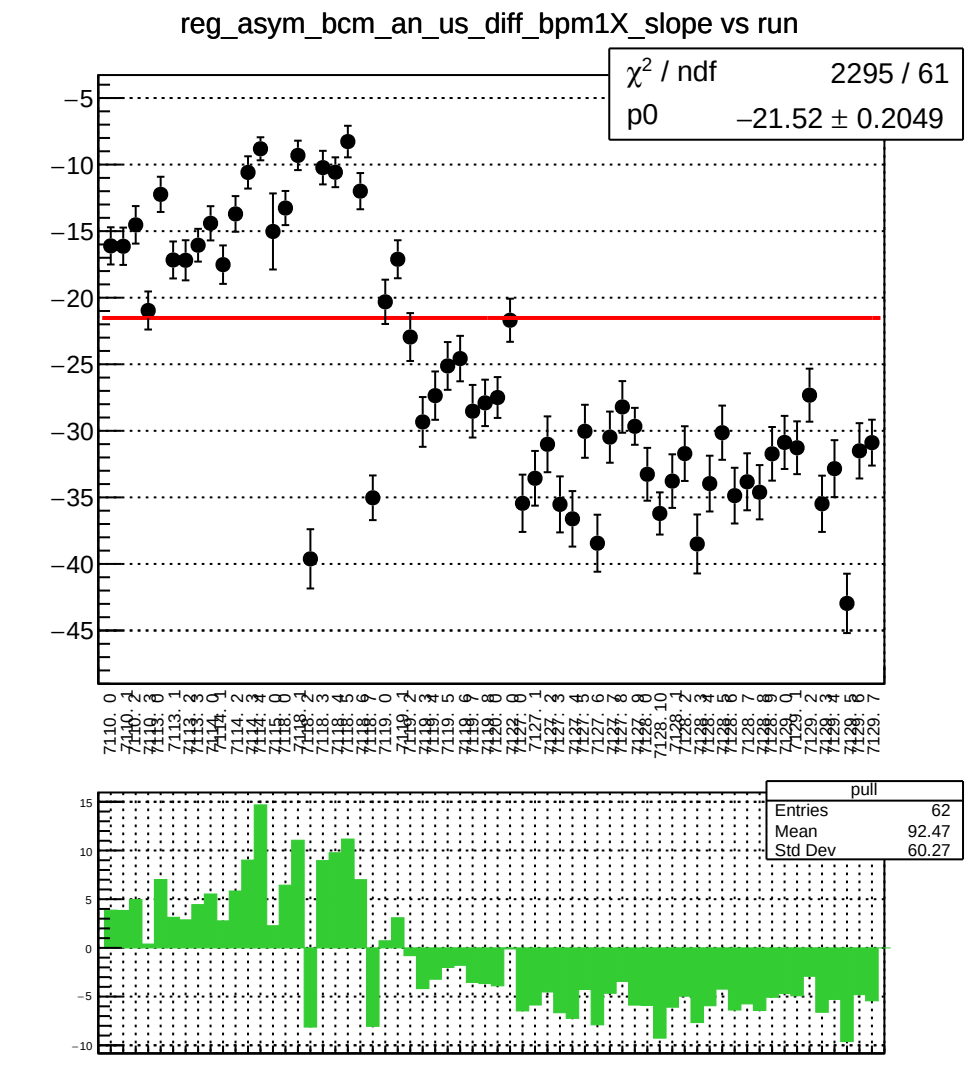

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 316.6 / 61
p0 1.374 ± 0.1786
pull
Entries 62
Mean 142.8
Std Dev 108.6
pull1D
Entries 62
Mean 0.1233
Std Dev 2.256

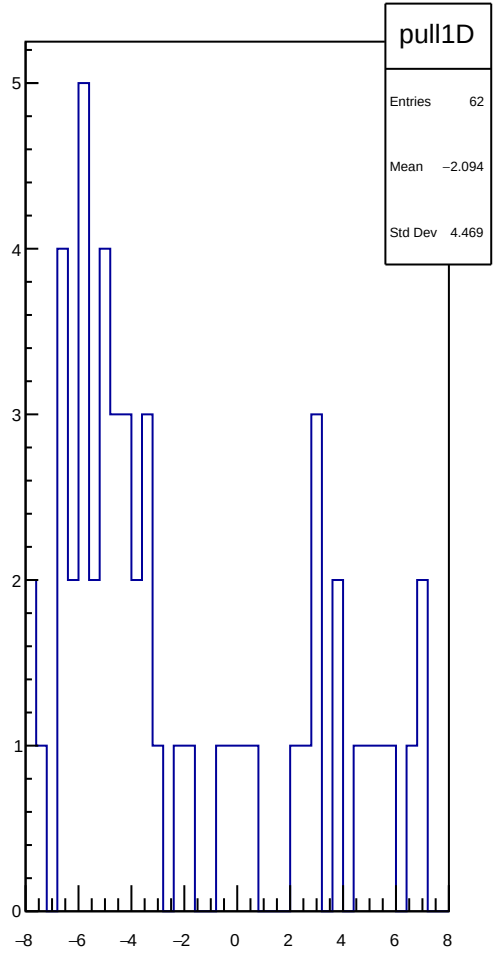

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 2214 / 61
p0 20.46 ± 0.203
pull
Entries 62
Mean 92.43
Std Dev 60.14
pull1D
Entries 62
Mean 2.272
Std Dev 4.41

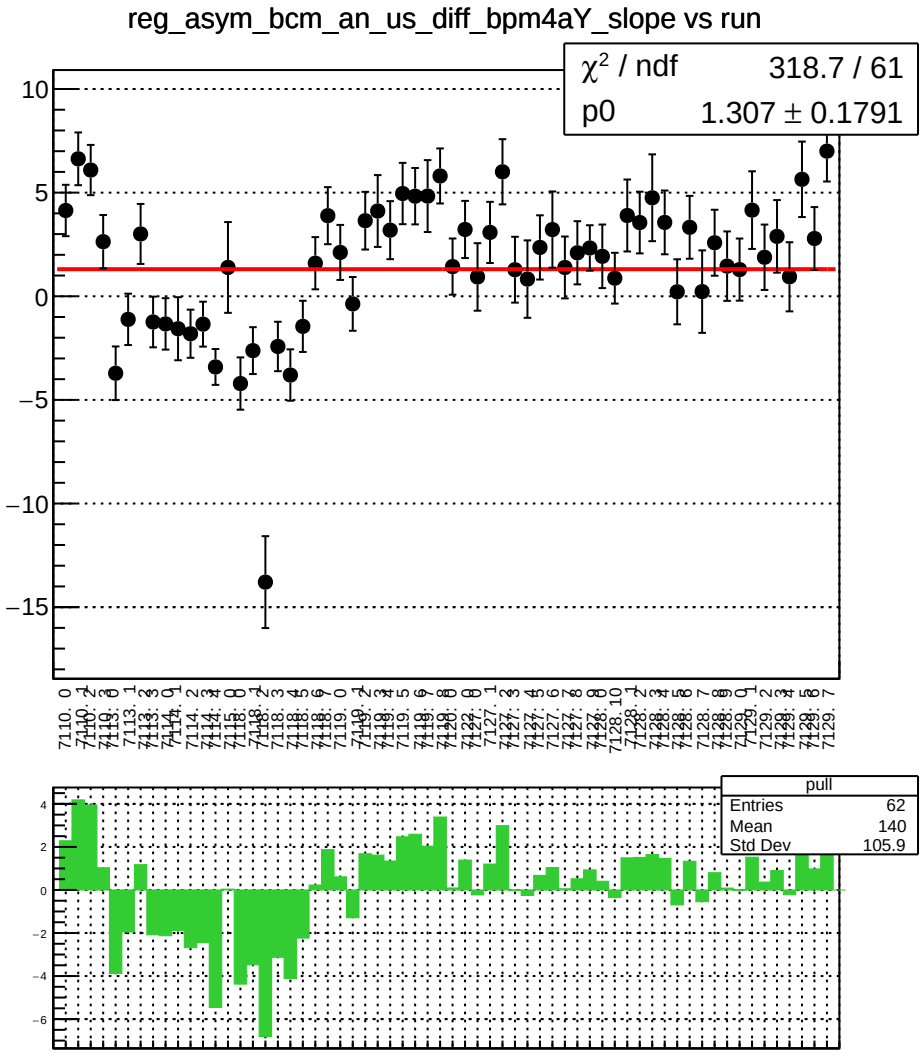

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 369.5 / 61
p0 −2.615 ± 0.1886
pull
Entries 62
Mean 135.7
Std Dev 102.3

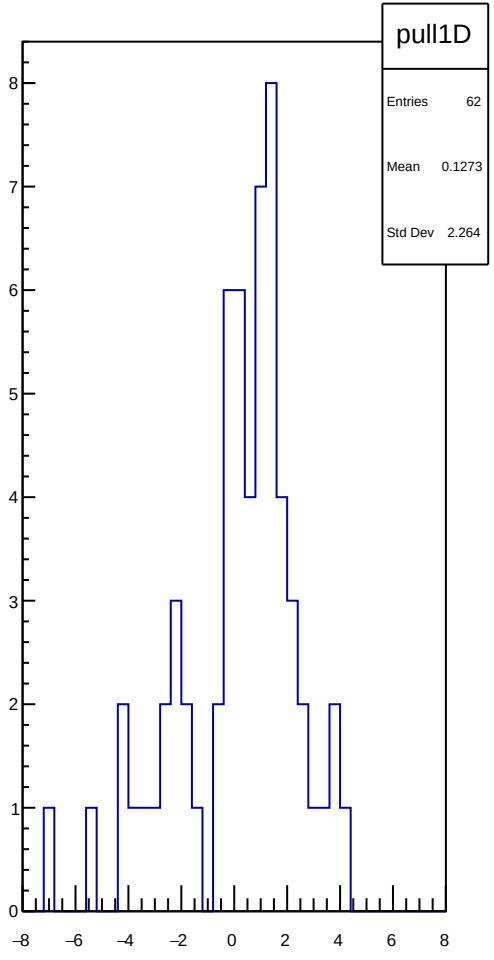

pull1D
Entries 62
Mean −0.1453
Std Dev 2.437

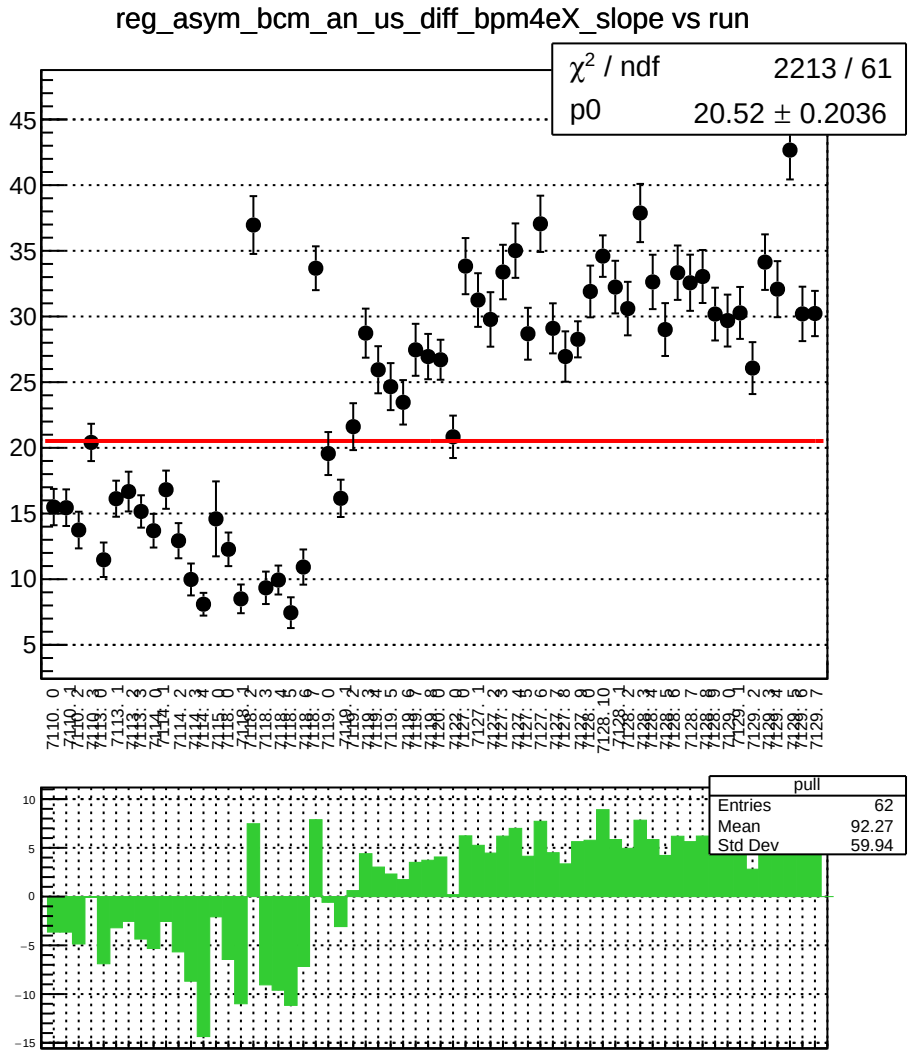

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 110.6 / 61
p0 0.03721± 0.008624
pull
Entries 62
Mean 123.9
Std Dev 88.65
pull1D
Entries 62
Mean 0.0979
Std Dev 1.332

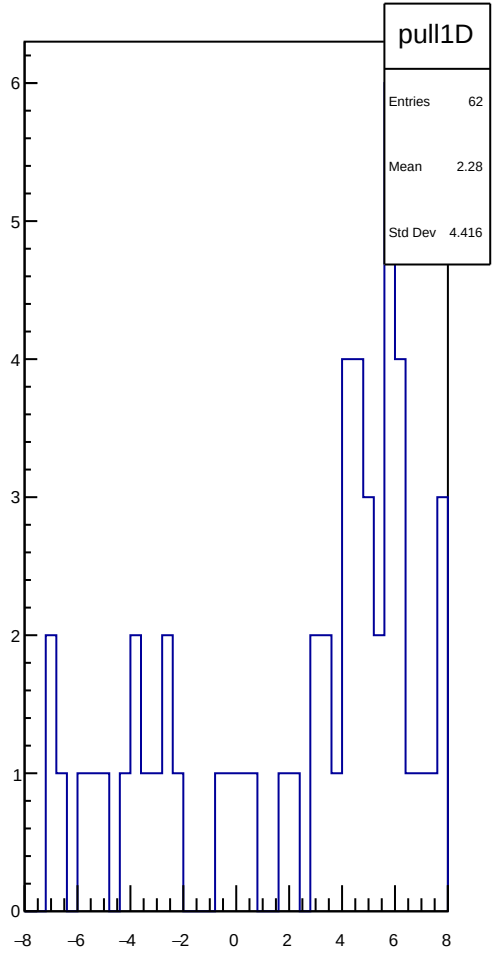

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 2295 / 61
p0 −21.52 ± 0.2049
pull
Entries 62
Mean 92.47
Std Dev 60.27

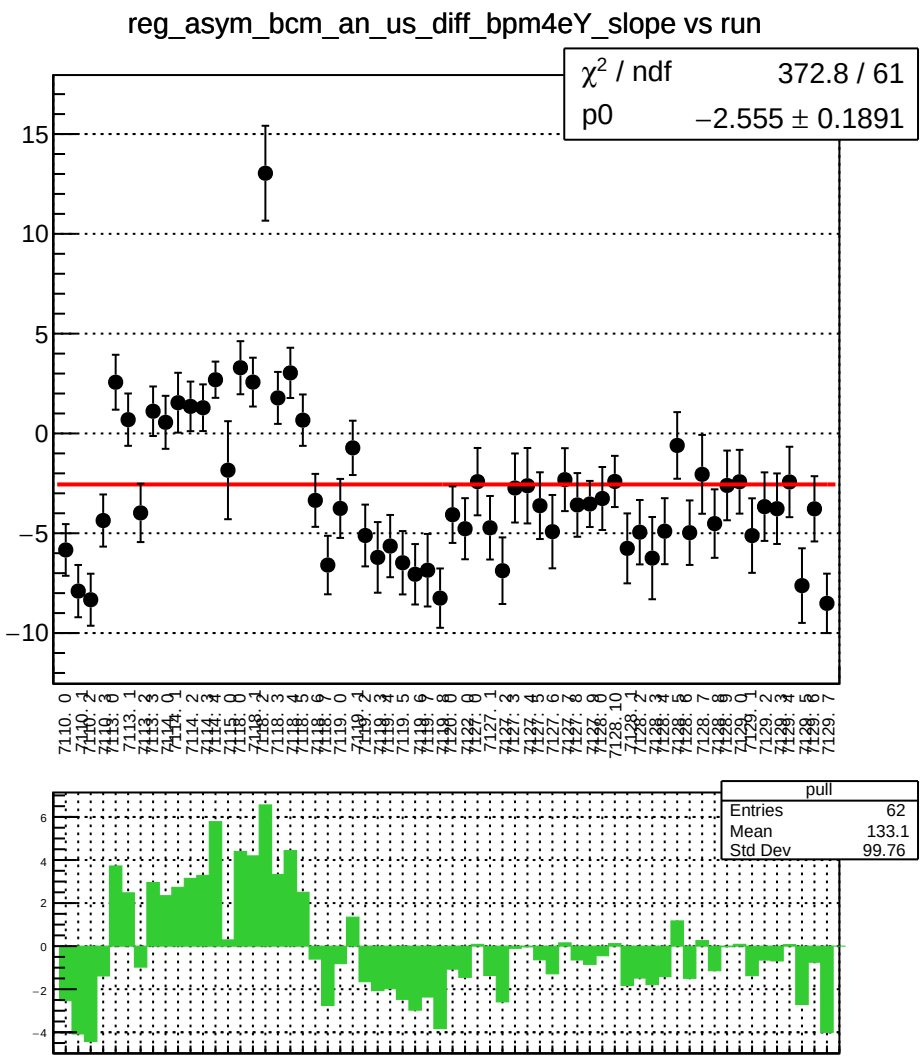

pull1D
Entries 62
Mean −2.094
Std Dev 4.469

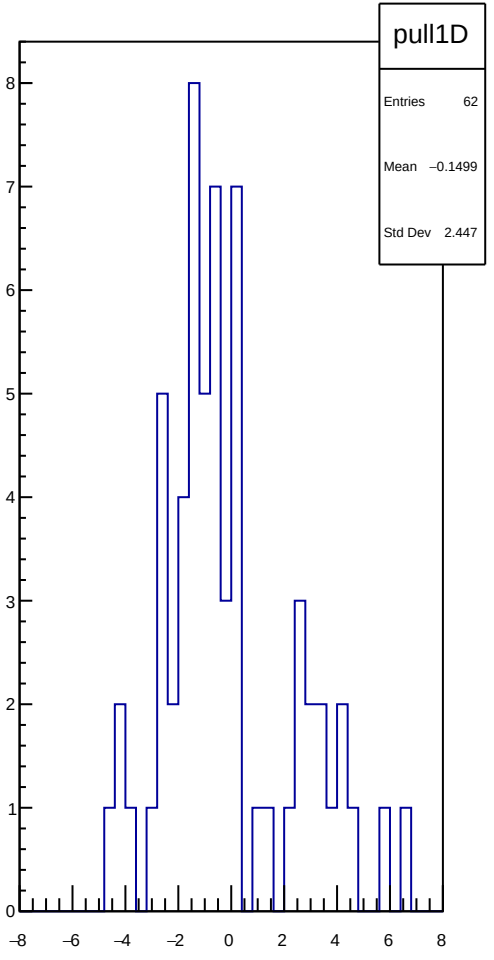

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 318.7 / 61
p0 1.307 ± 0.1791
pull
Entries 62
Mean 140
Std Dev 105.9

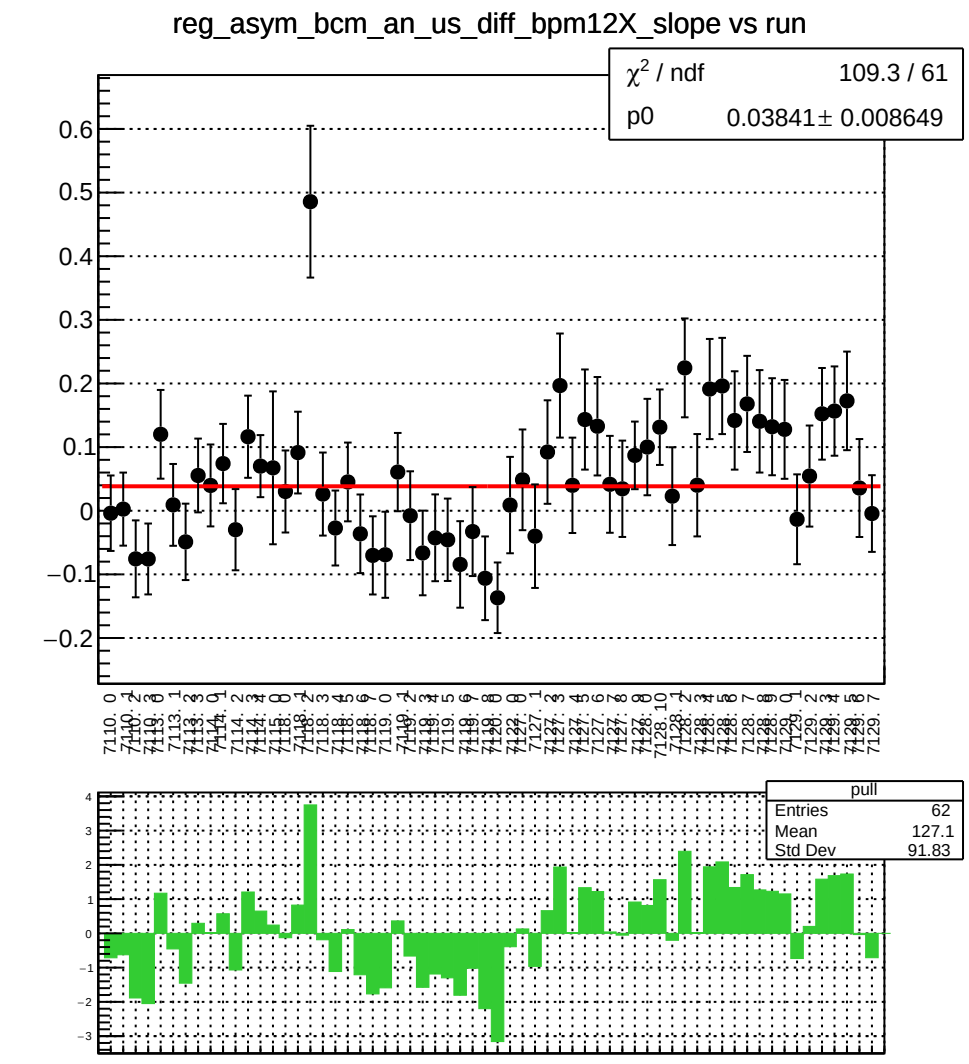

pull1D
Entries 62
Mean 0.1273
Std Dev 2.264

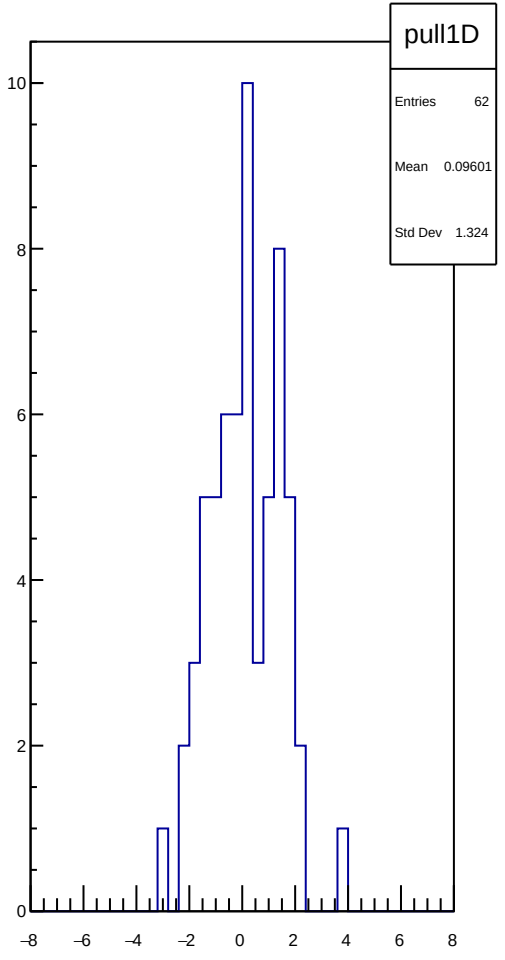

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 2213 / 61
p0 20.52 ± 0.2036
pull
Entries 62
Mean 92.27
Std Dev 59.94

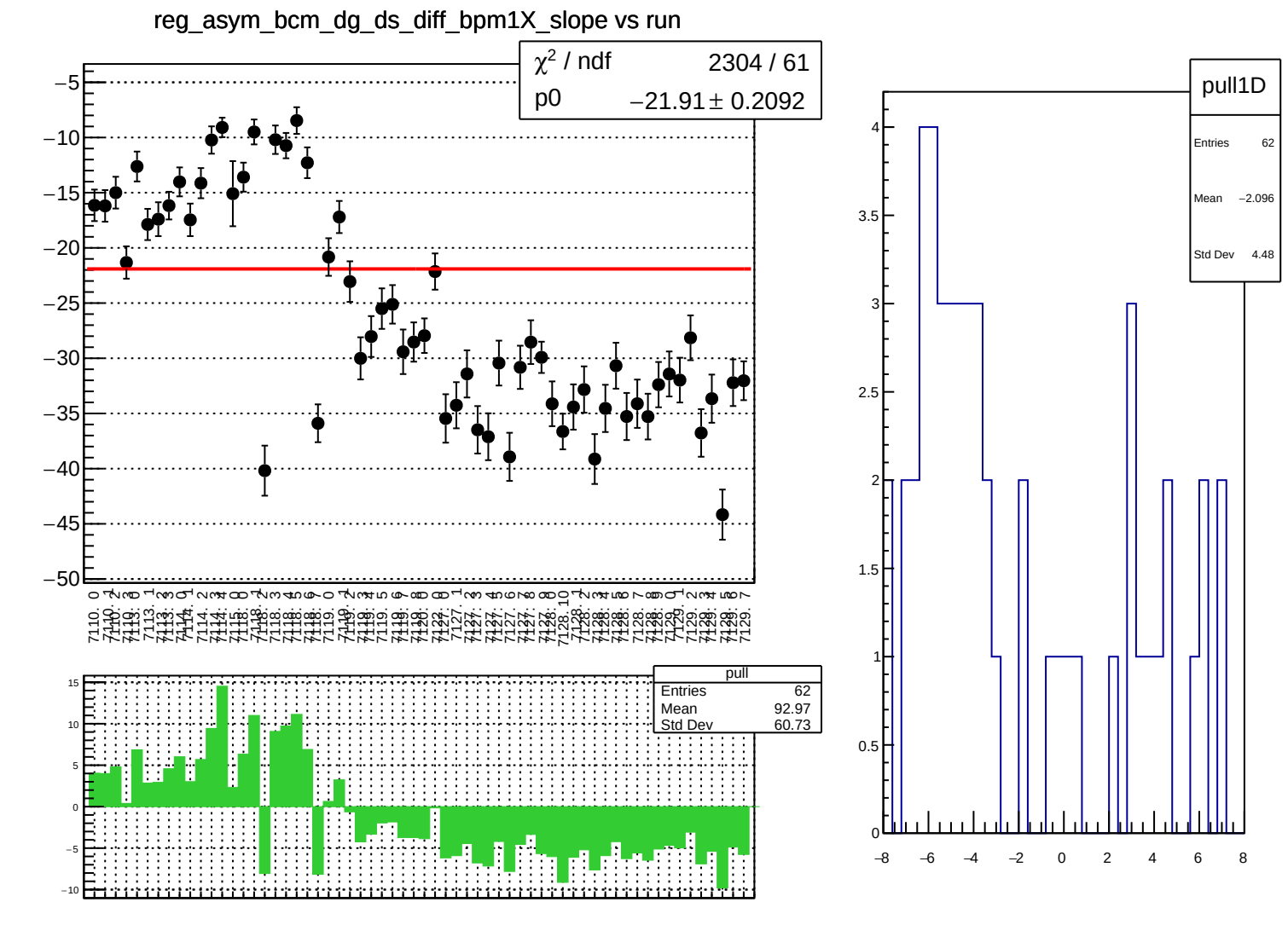

pull1D
Entries 62
Mean 2.28
Std Dev 4.416

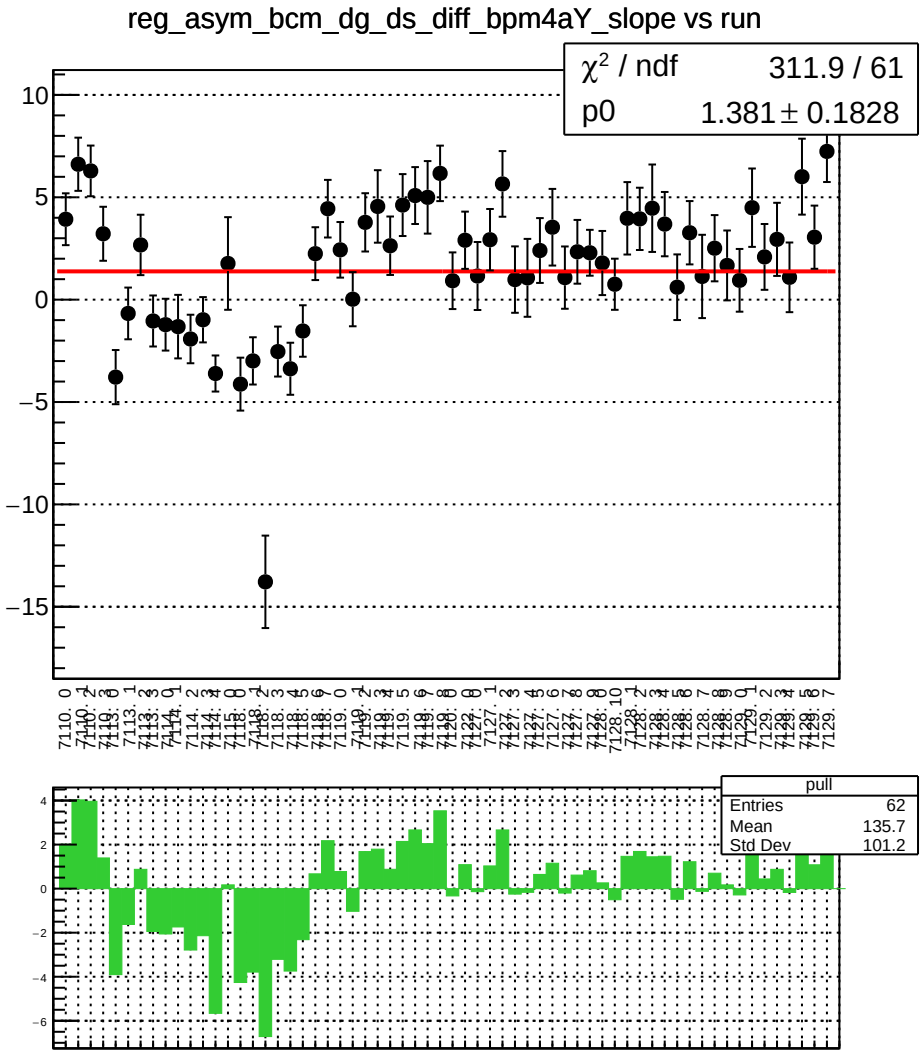

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 372.8 / 61
p0 −2.555 ± 0.1891
pull
Entries 62
Mean 133.1
Std Dev 99.76

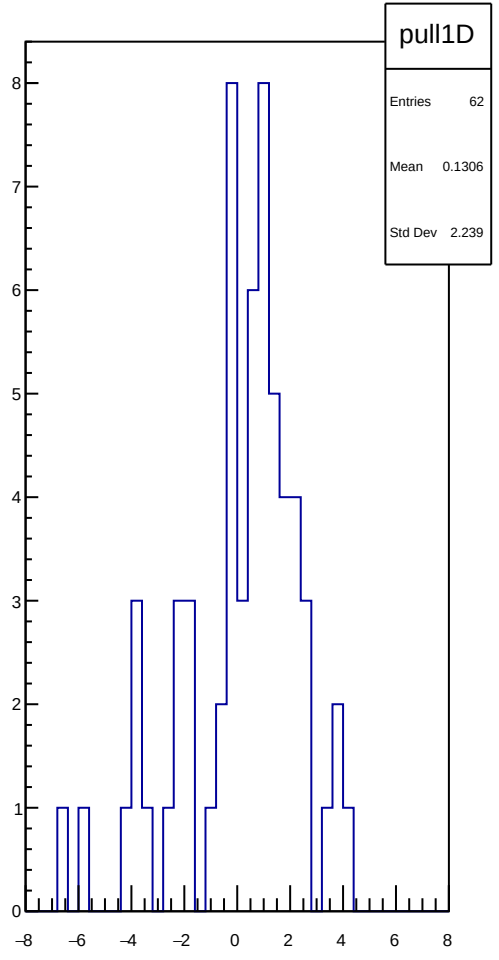

pull1D
Entries 62
Mean −0.1499
Std Dev 2.447

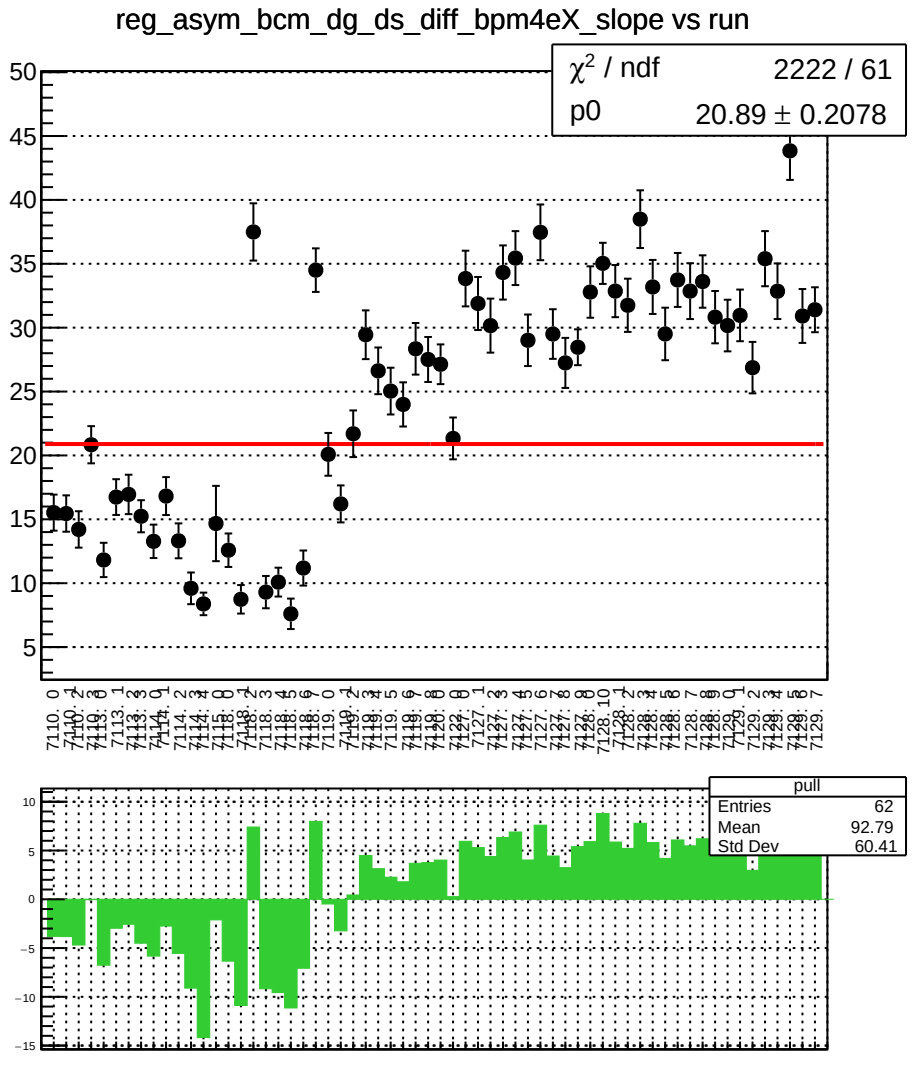

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 109.3 / 61
p0 0.03841± 0.008649
pull
Entries 62
Mean 127.1
Std Dev 91.83

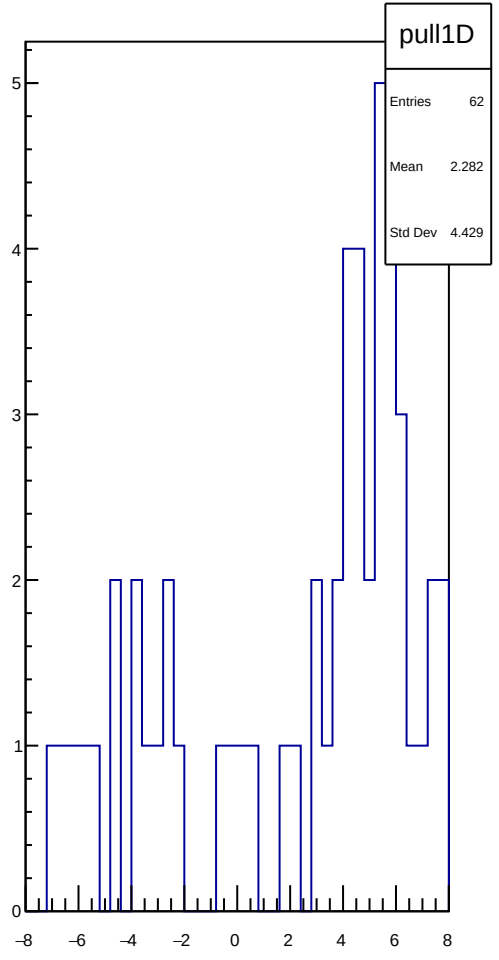

pull1D
Entries 62
Mean 0.09601
Std Dev 1.324

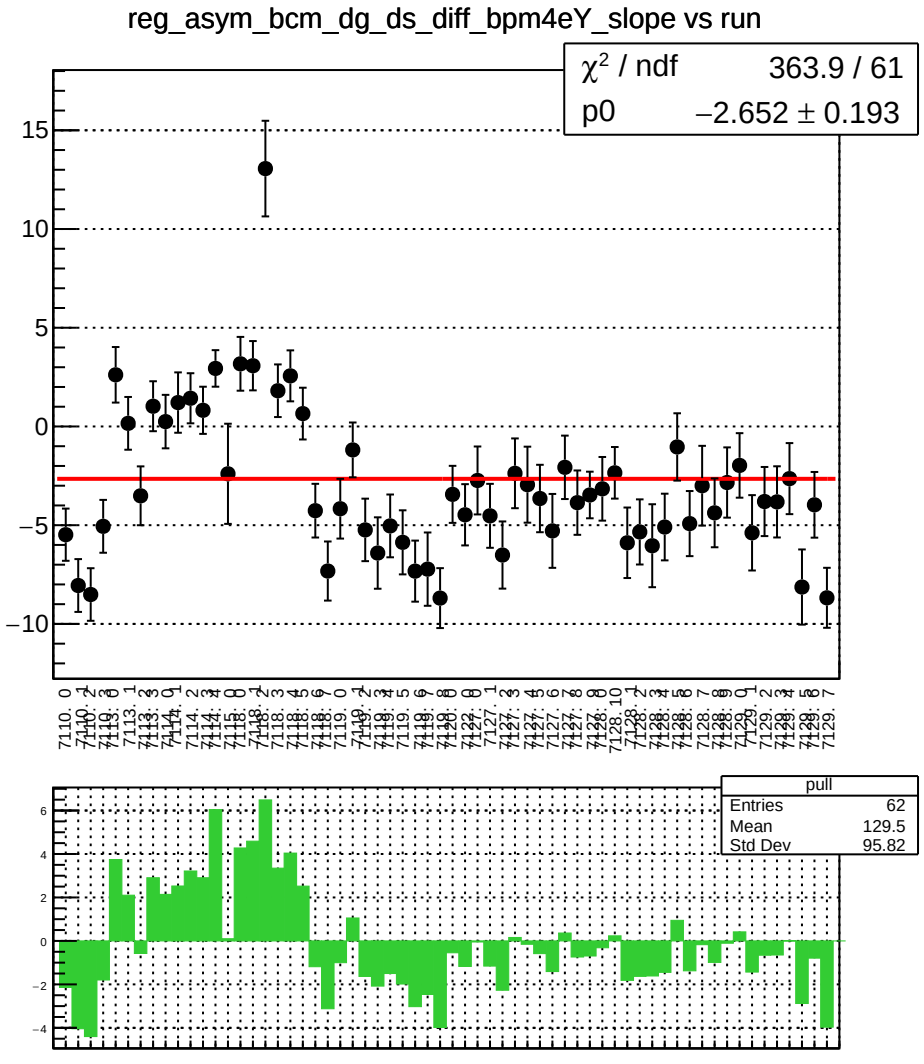

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 2304 / 61
p0 −21.91 ± 0.2092
pull
Entries 62
Mean 92.97
Std Dev 60.73
pull1D
Entries 62
Mean −2.096
Std Dev 4.48

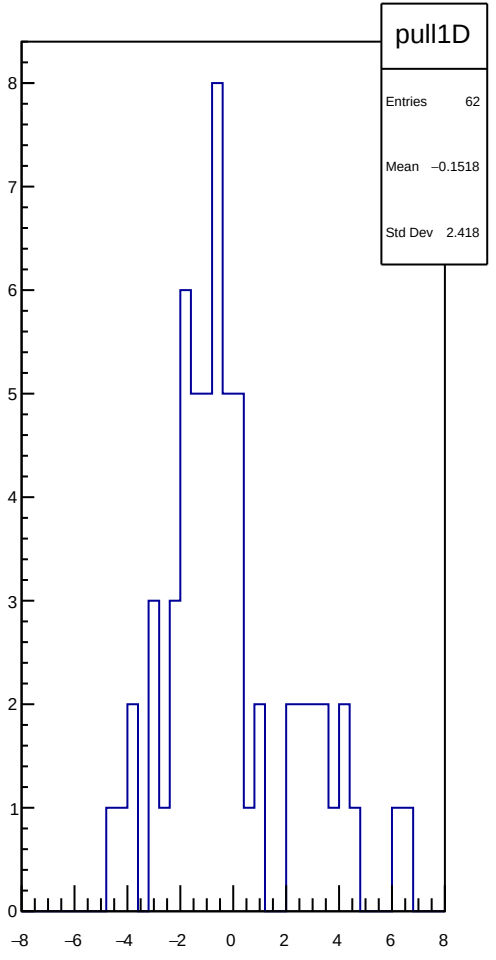

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 311.9 / 61
p0 1.381 ± 0.1828
pull
Entries 62
Mean 135.7
Std Dev 101.2

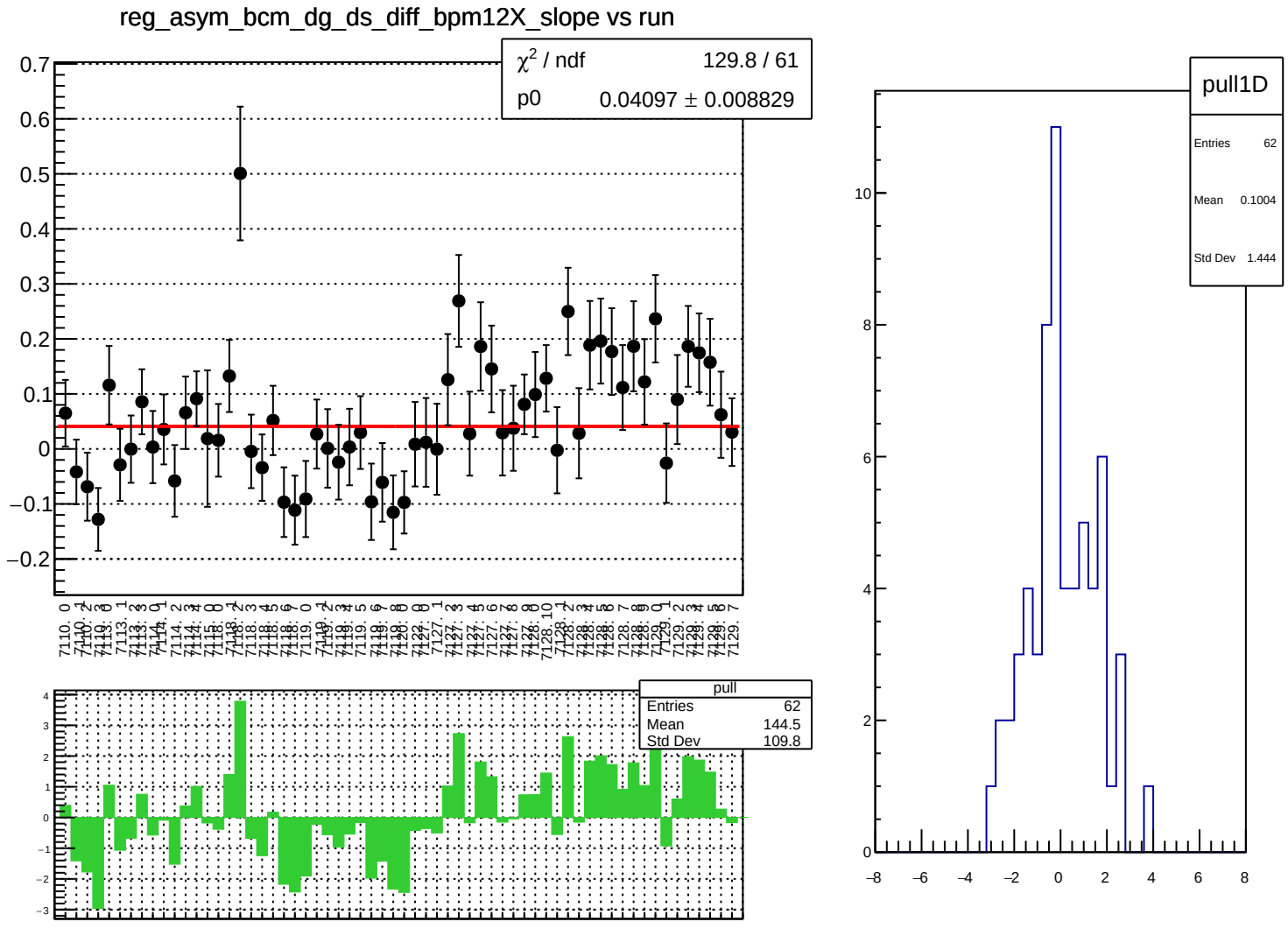

pull1D
Entries 62
Mean 0.1306
Std Dev 2.239

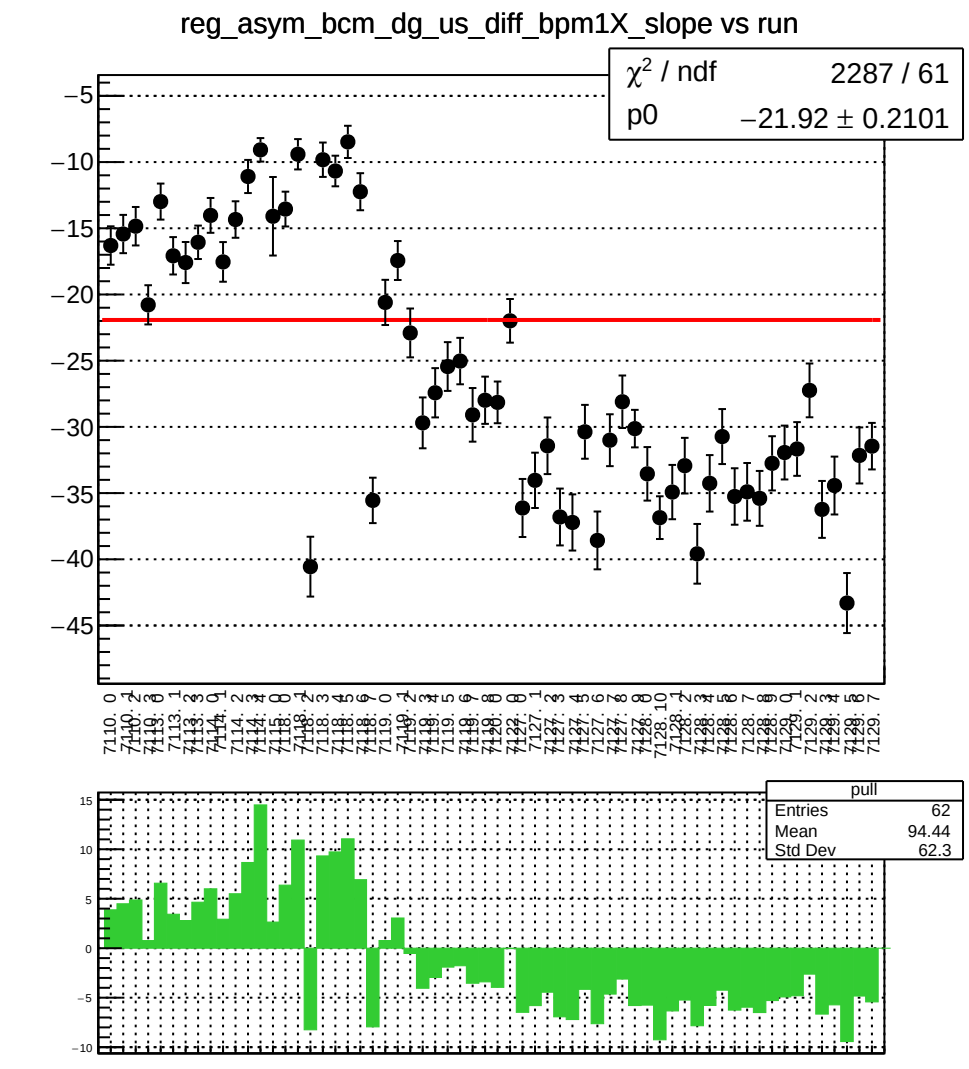

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 2222 / 61
p0 20.89 ± 0.2078
pull
Entries 62
Mean 92.79
Std Dev 60.41

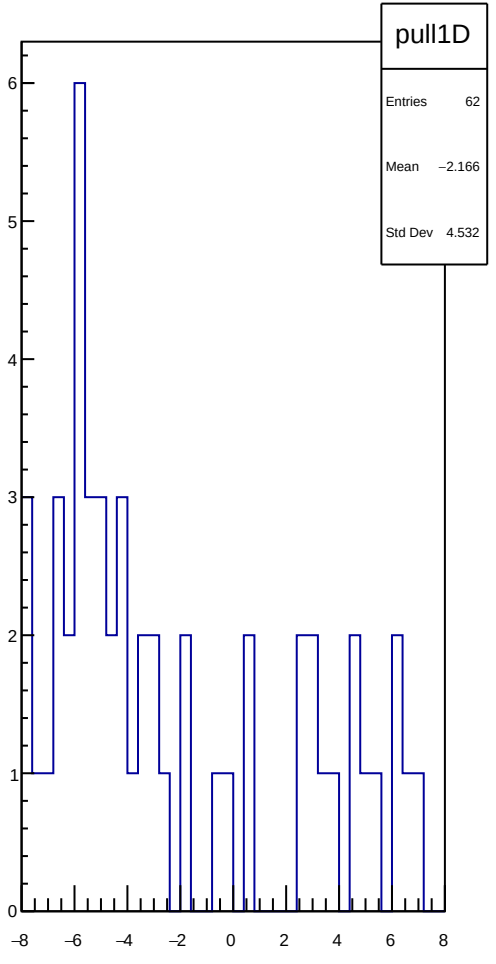

pull1D
Entries 62
Mean 2.282
Std Dev 4.429

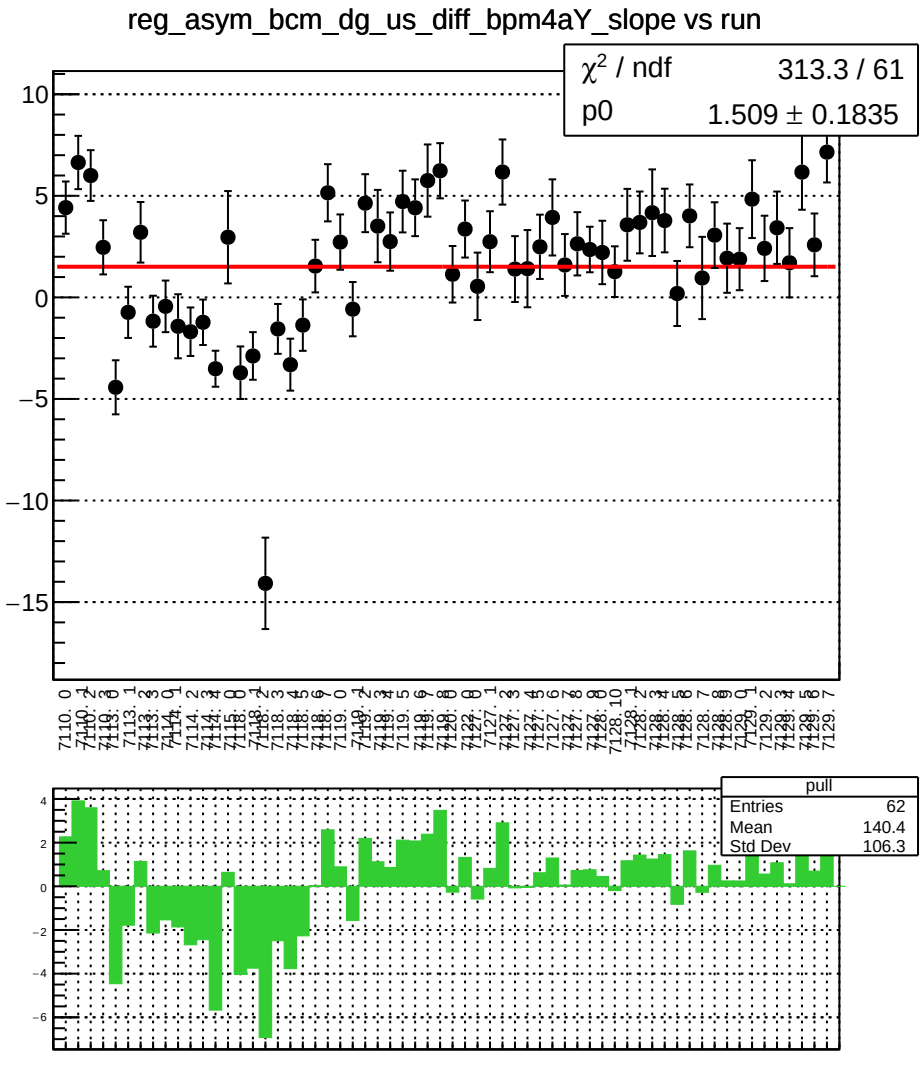

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 363.9 / 61
p0 −2.652 ± 0.193
pull
Entries 62
Mean 129.5
Std Dev 95.82

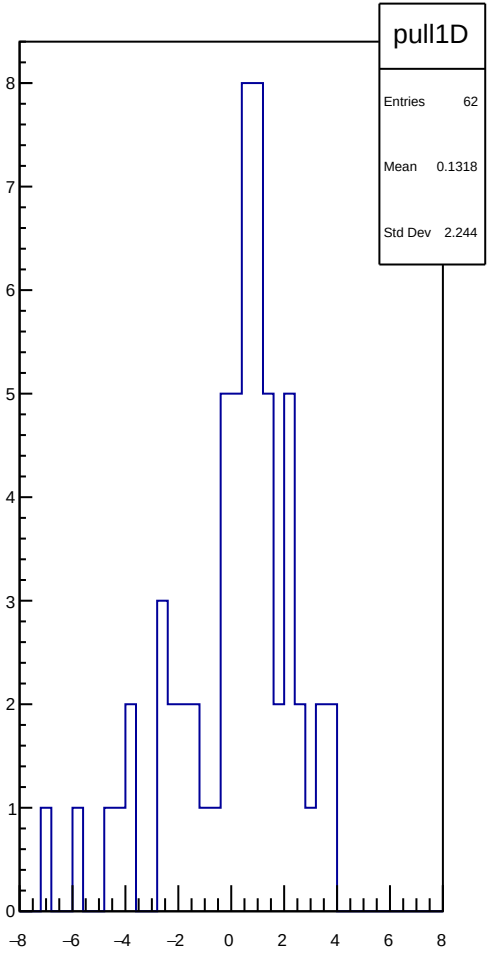

pull1D
Entries 62
Mean −0.1518
Std Dev 2.418

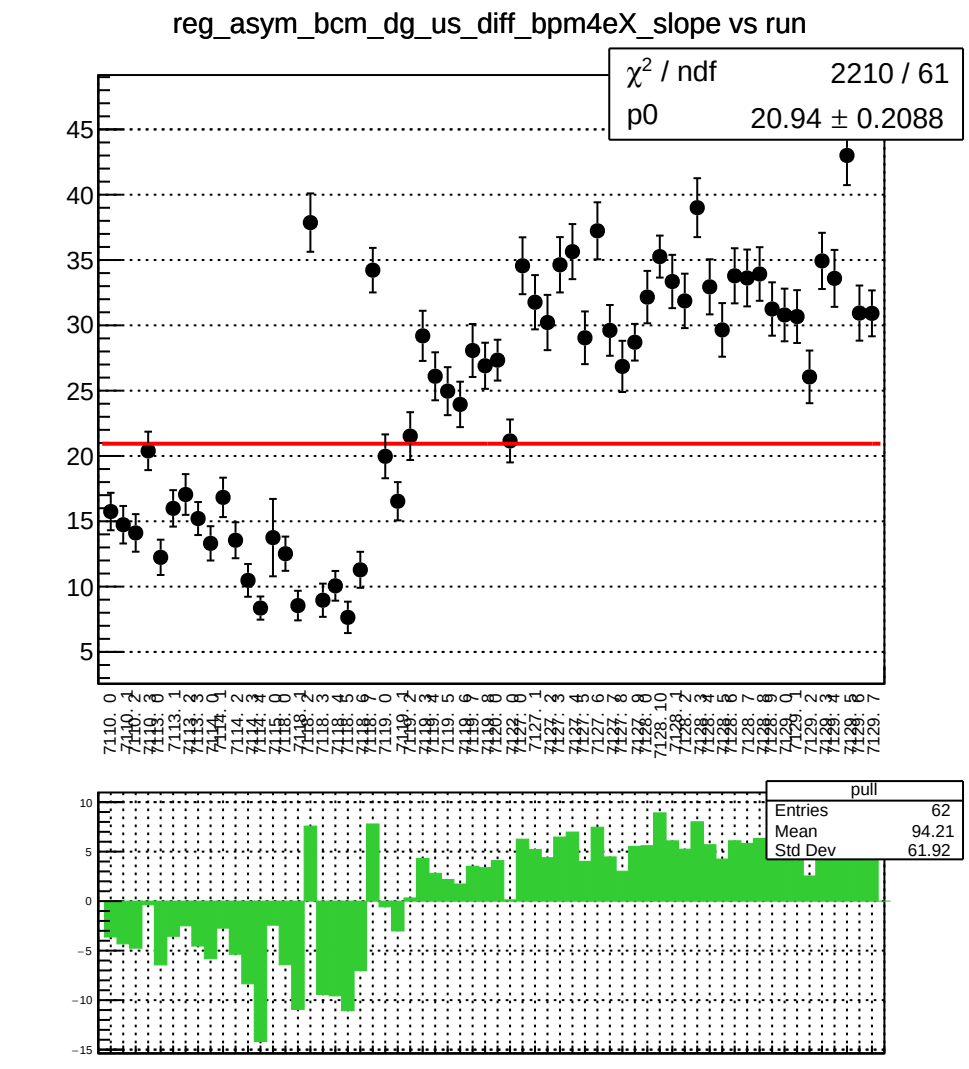

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 129.8 / 61
p0 0.04097 ± 0.008829
pull
Entries 62
Mean 144.5
Std Dev 109.8
pull1D
Entries 62
Mean 0.1004
Std Dev 1.444

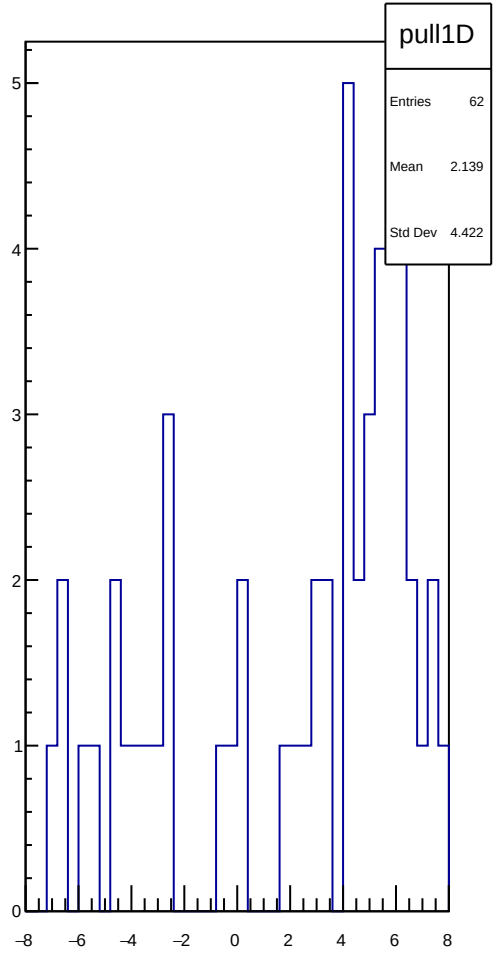

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 2287 / 61
p0 −21.92 ± 0.2101
pull
Entries 62
Mean 94.44
Std Dev 62.3

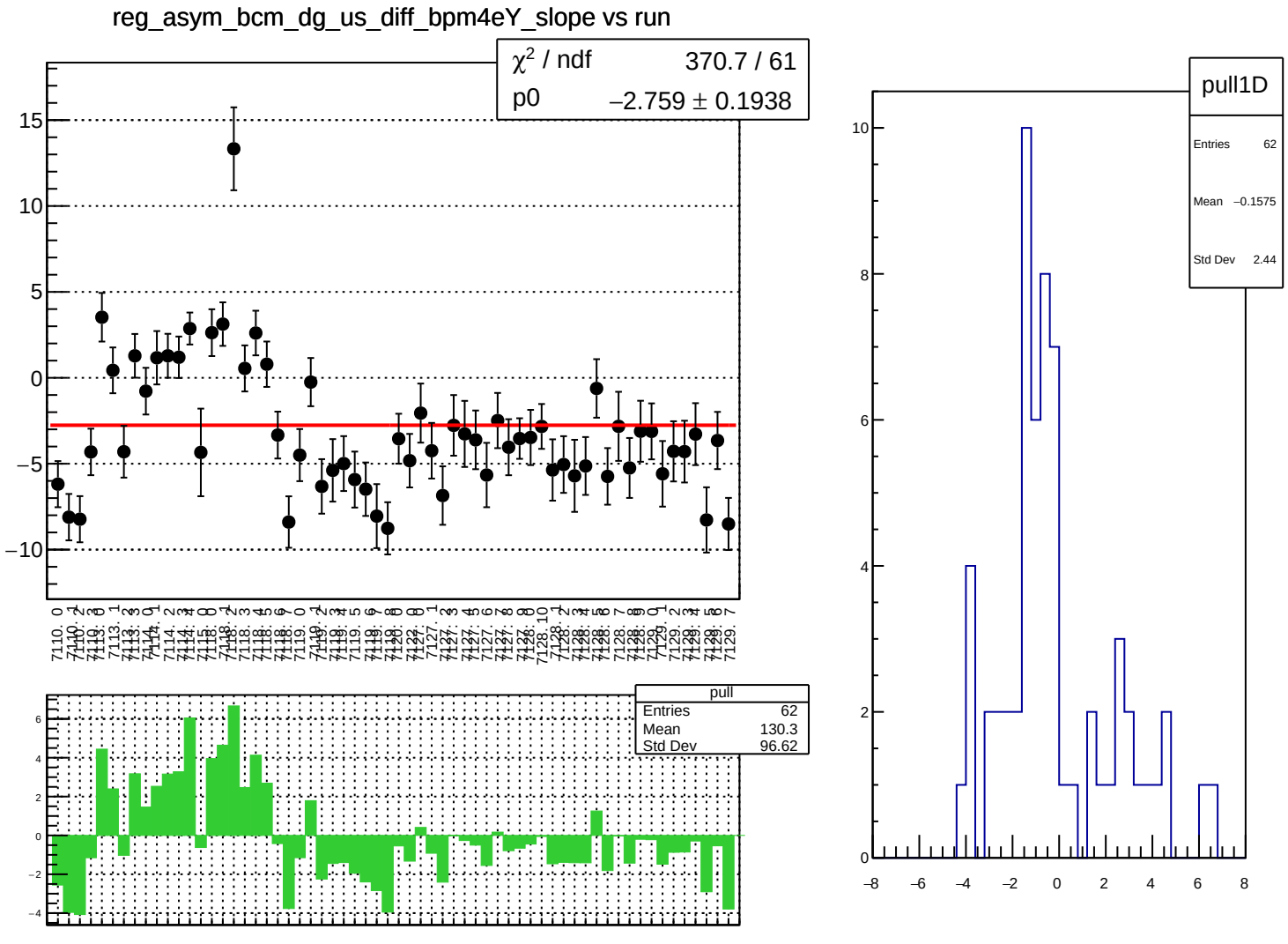

pull1D
Entries 62
Mean −2.166
Std Dev 4.532

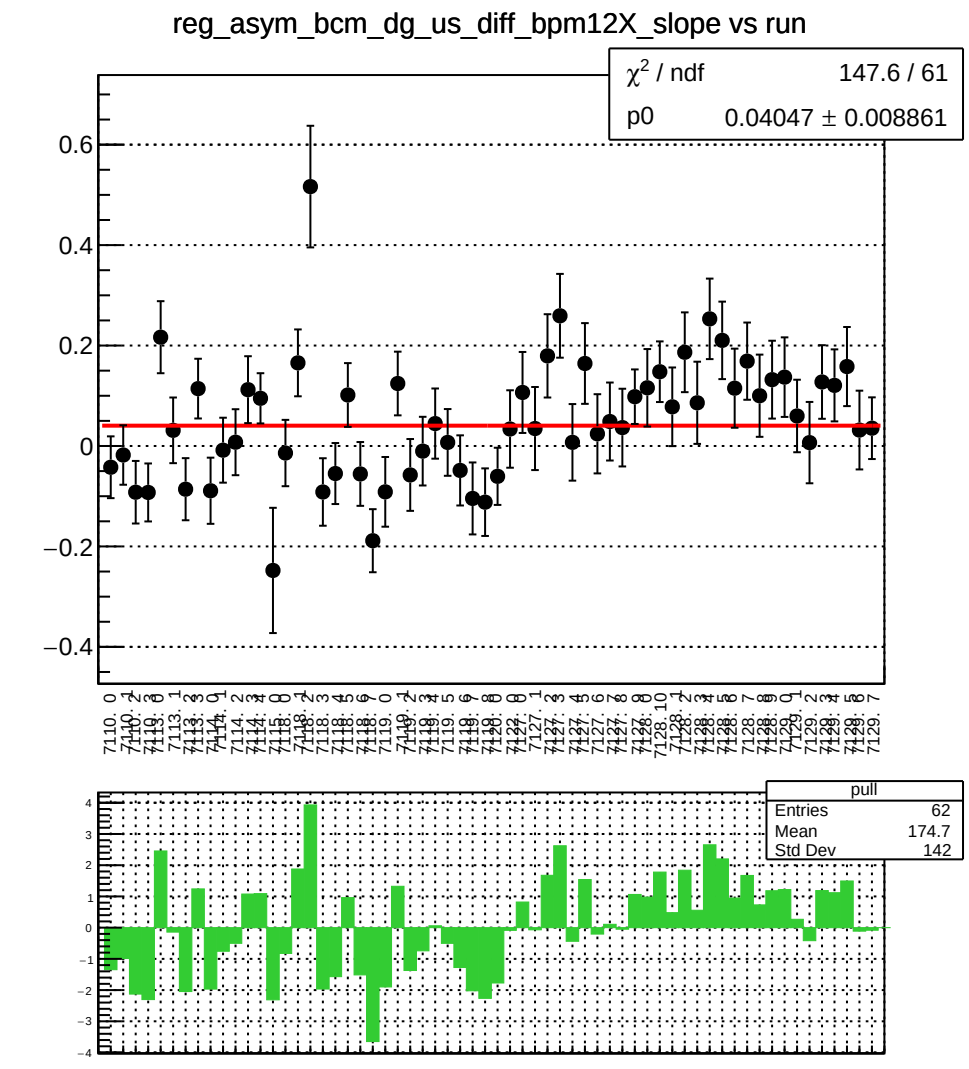

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 313.3 / 61
p0 1.509 ± 0.1835
pull
Entries 62
Mean 140.4
Std Dev 106.3

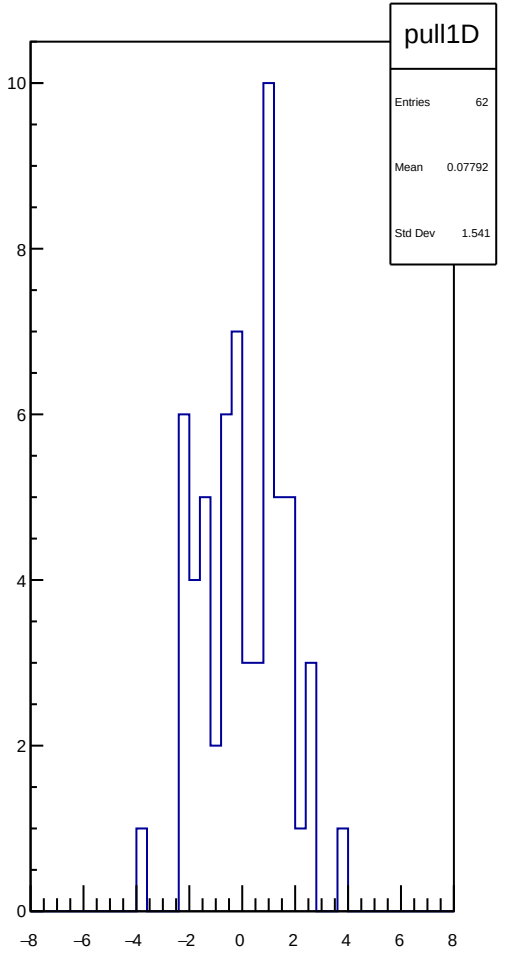

pull1D
Entries 62
Mean 0.1318
Std Dev 2.244

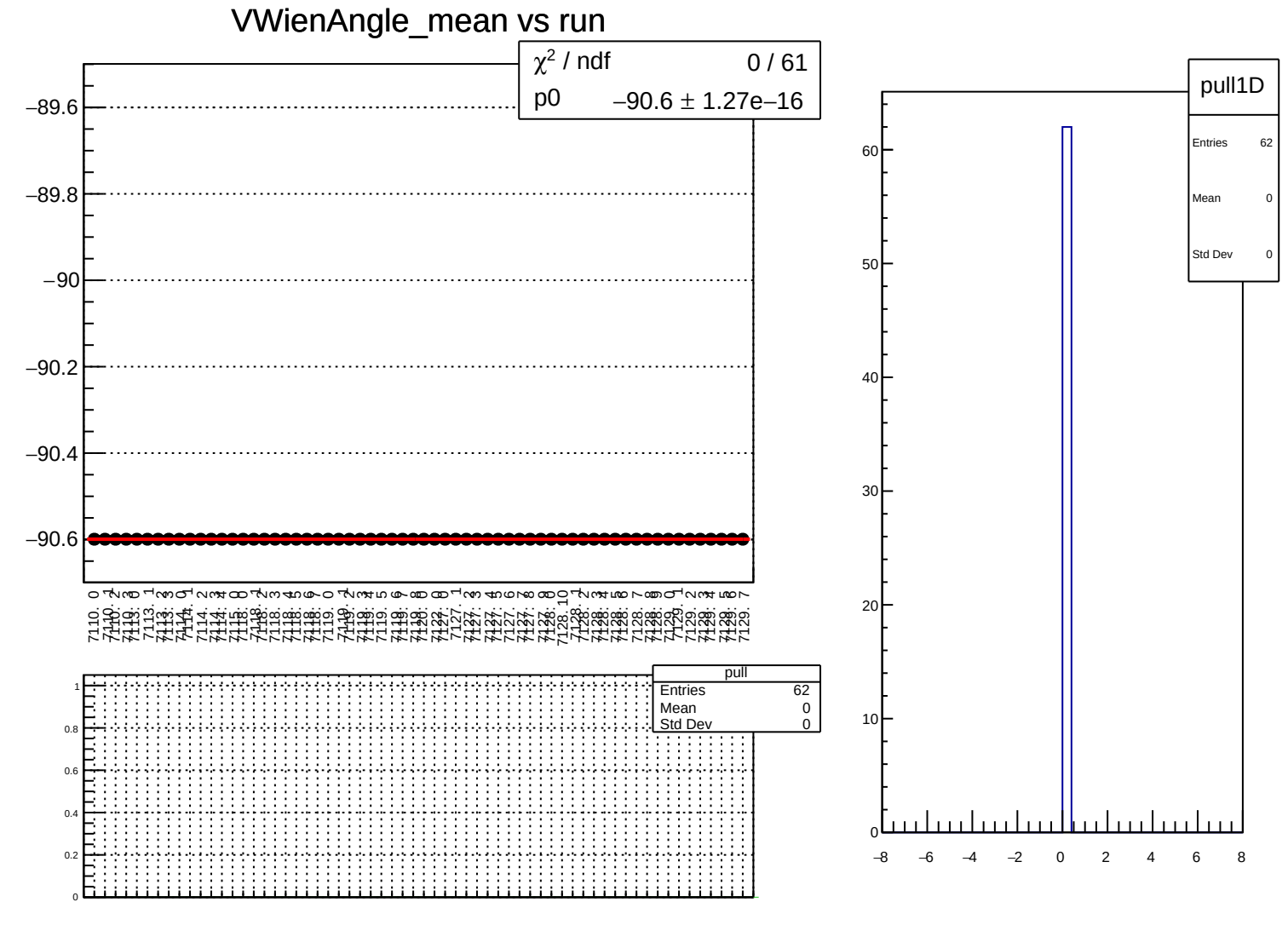

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 2210 / 61
p0 20.94 ± 0.2088
pull
Entries 62
Mean 94.21
Std Dev 61.92

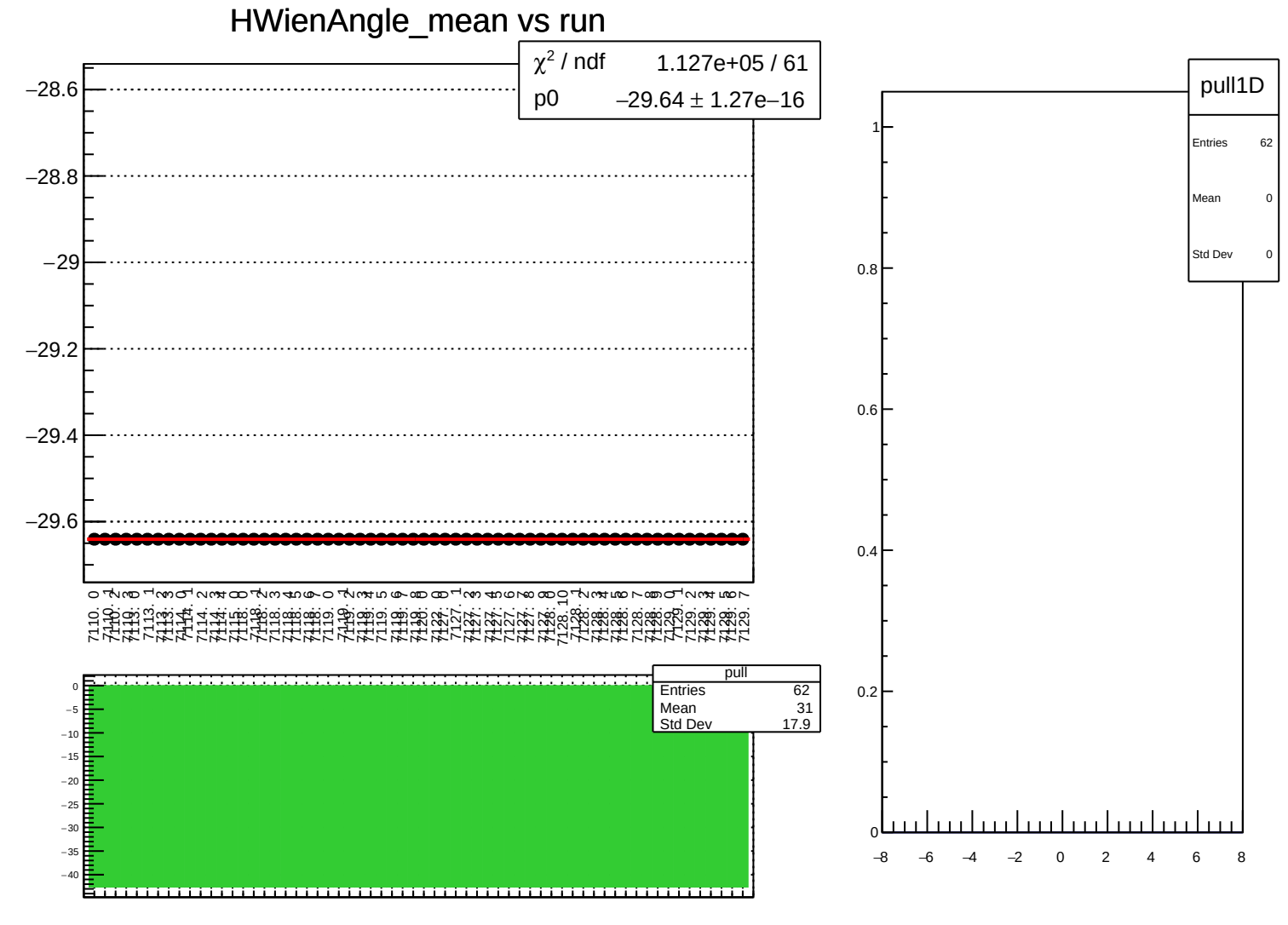

pull1D
Entries 62
Mean 2.139
Std Dev 4.422

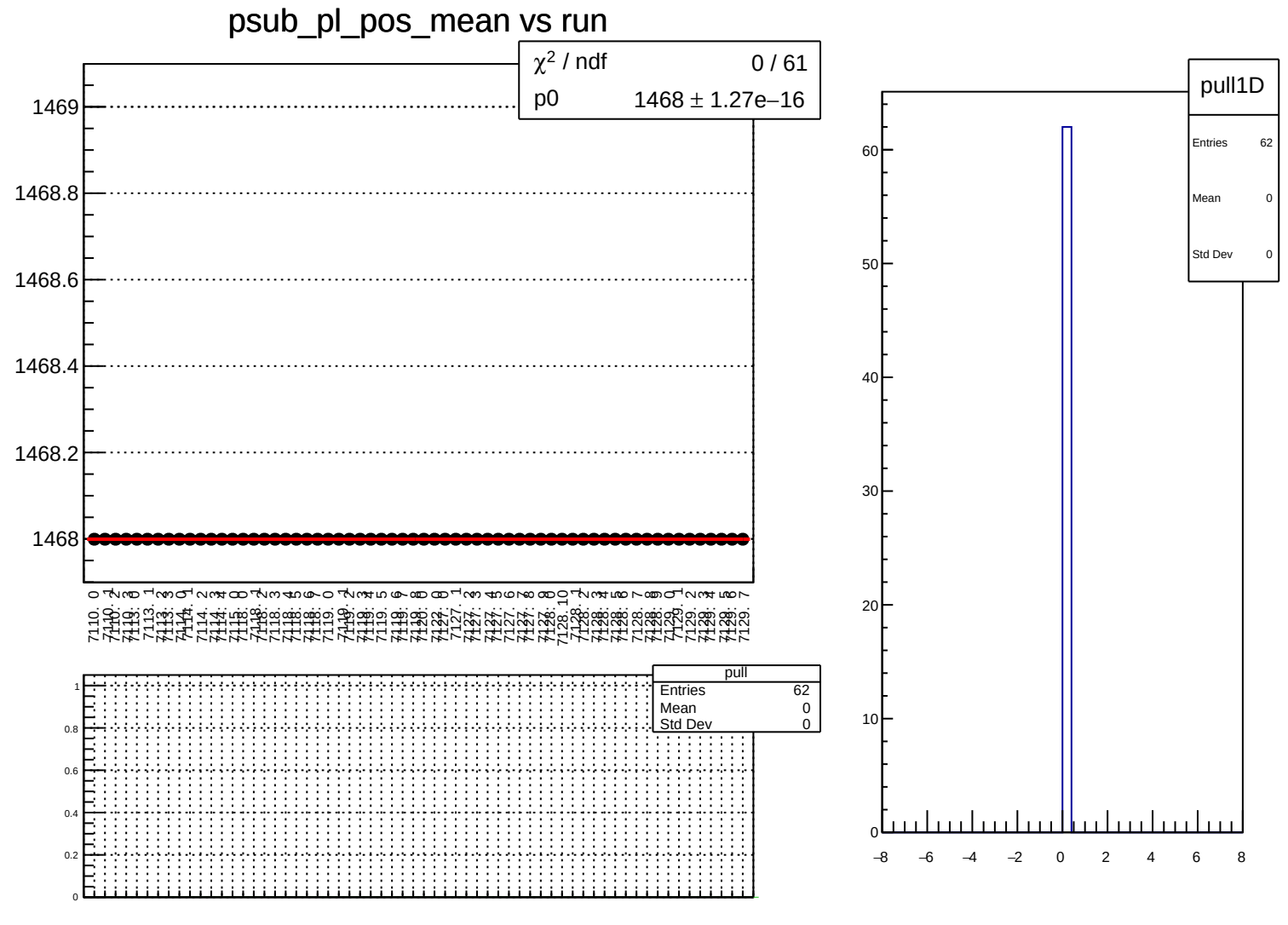

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 370.7 / 61
p0 −2.759 ± 0.1938
pull
Entries 62
Mean 130.3
Std Dev 96.62
pull1D
Entries 62
Mean −0.1575
Std Dev 2.44

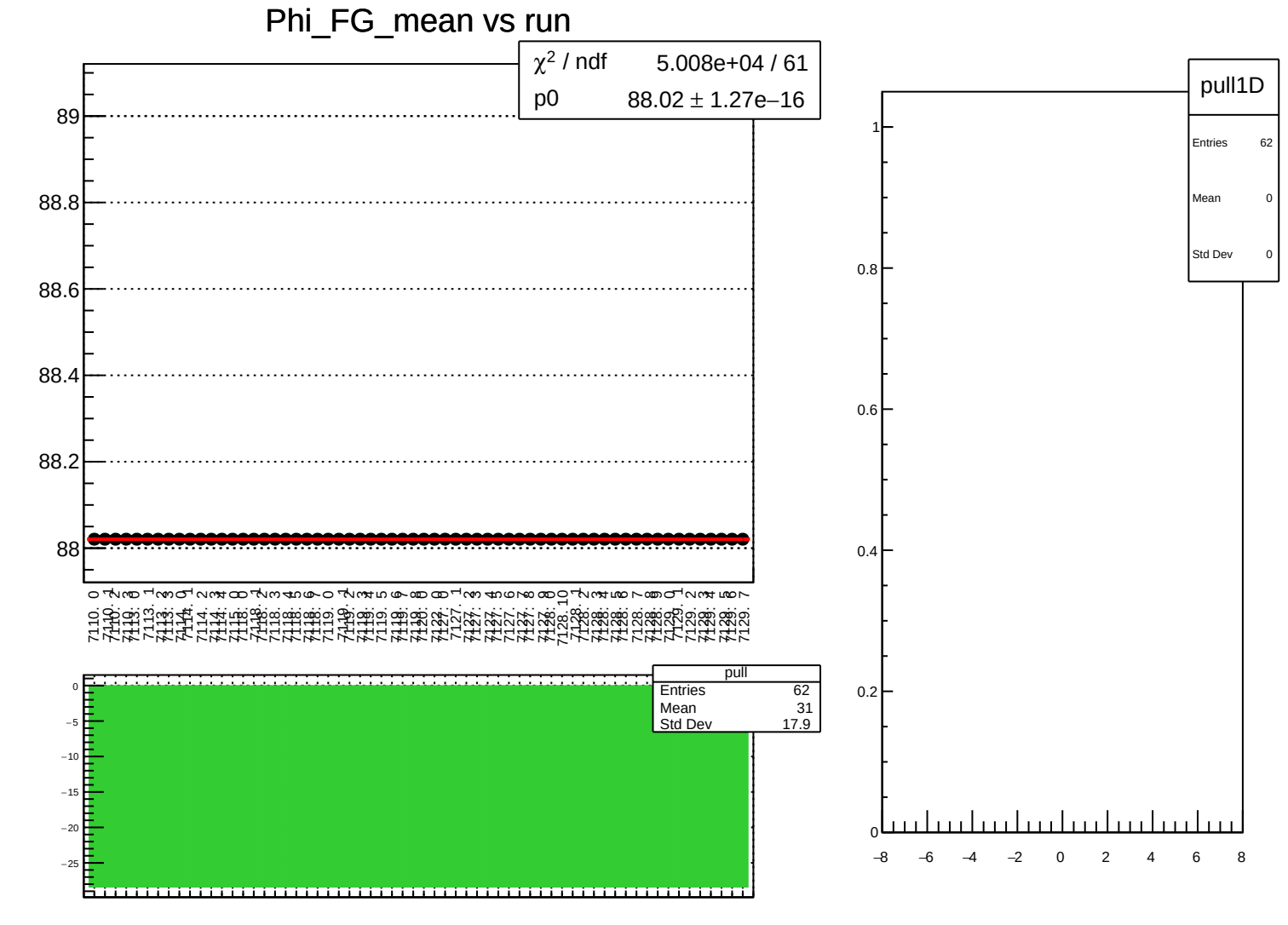

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 147.6 / 61
p0 0.04047 ± 0.008861
pull
Entries 62
Mean 174.7
Std Dev 142

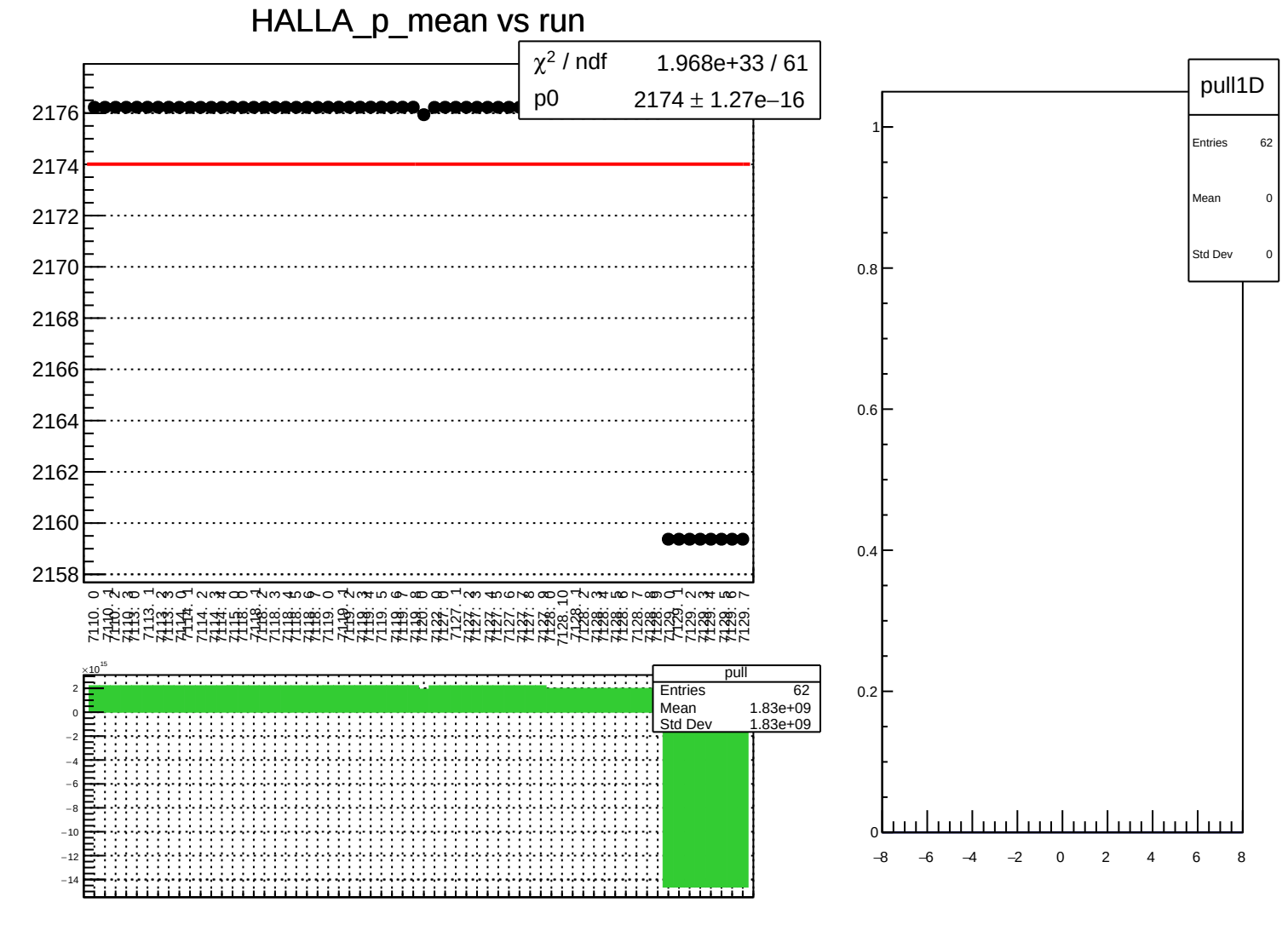

pull1D
Entries 62
Mean 0.07792
Std Dev 1.541

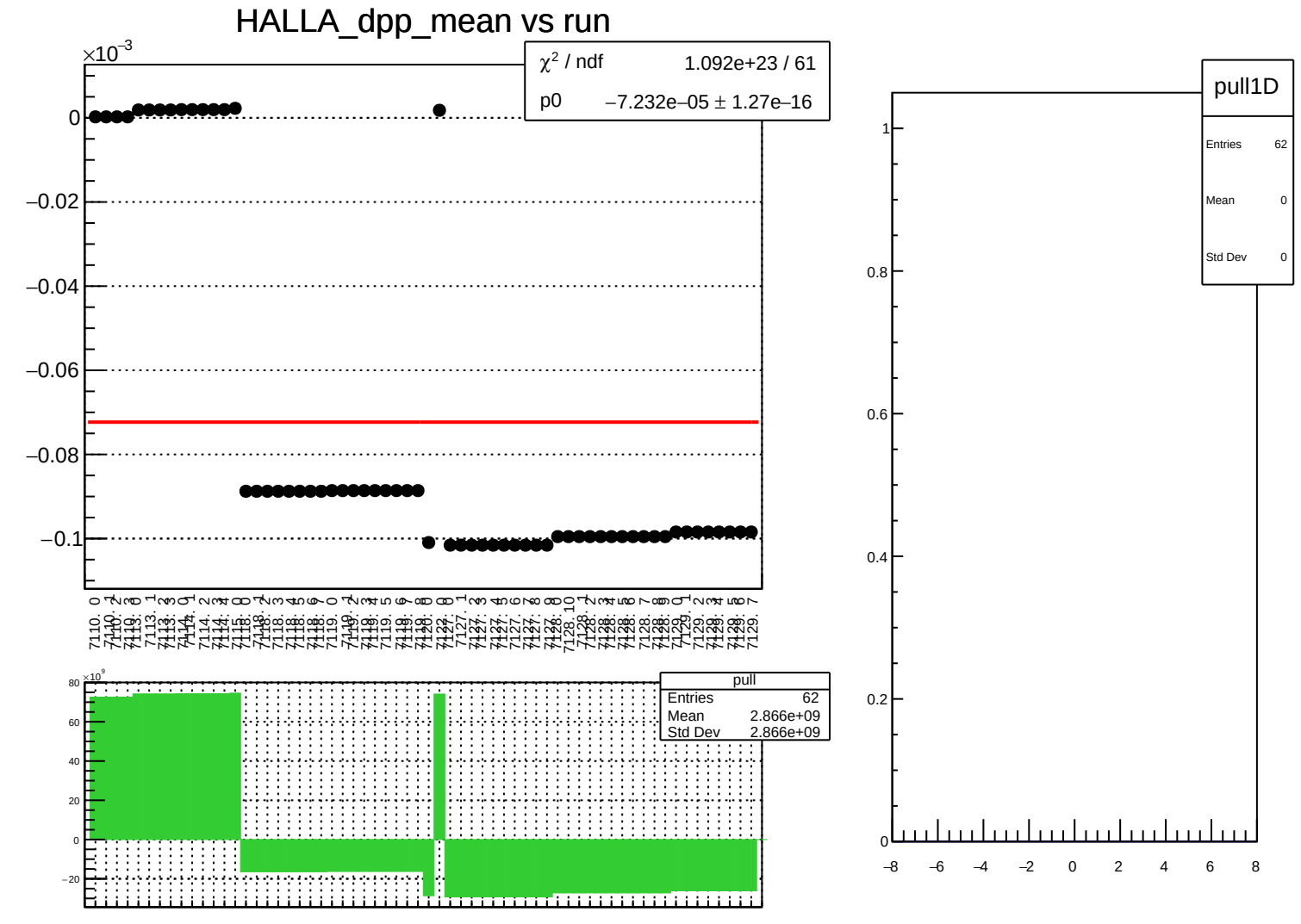

VWienAngle_mean vs run
χ² / ndf 0 / 61
p0 −90.6 ± 1.27e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 62
Mean 0
Std Dev 0
pull1D
Entries 62
Mean 0
Std Dev 0

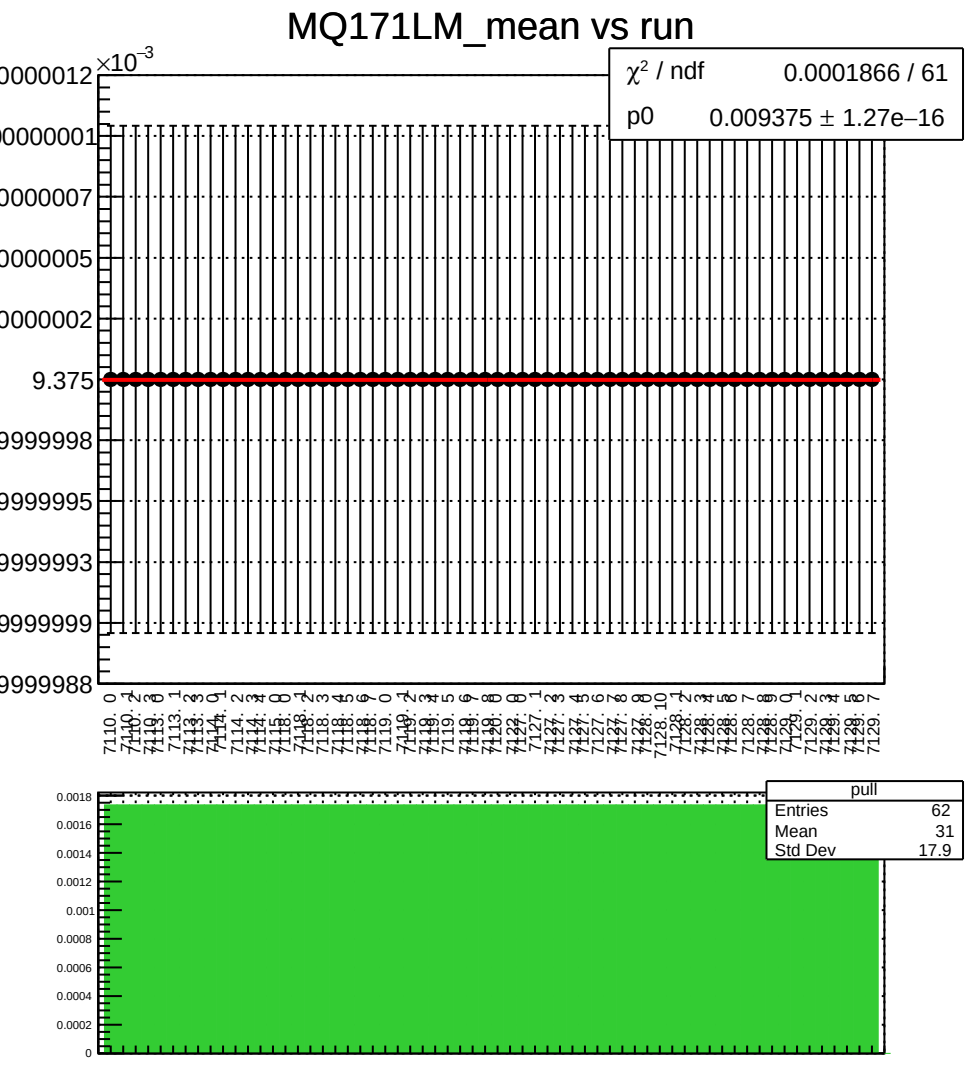

HWienAngle_mean vs run
χ² / ndf 1.127e+05 / 61
p0 −29.64 ± 1.27e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 62
Mean 31
Std Dev 17.9
0
−5
−10
−15
−20
−25
−30
−35
−40
pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

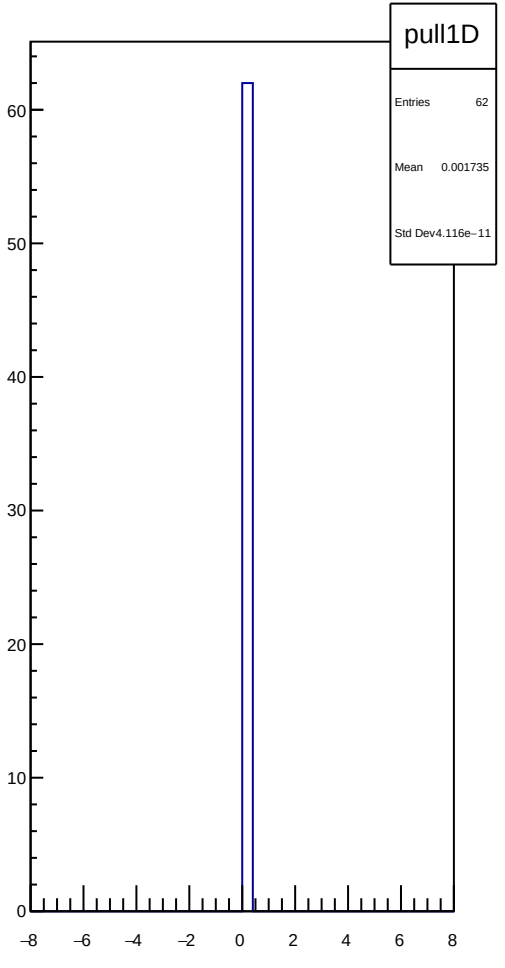

psub_pl_pos_mean vs run
χ² / ndf 0 / 61
p0 1468 ± 1.27e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 62
Mean 0
Std Dev 0
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

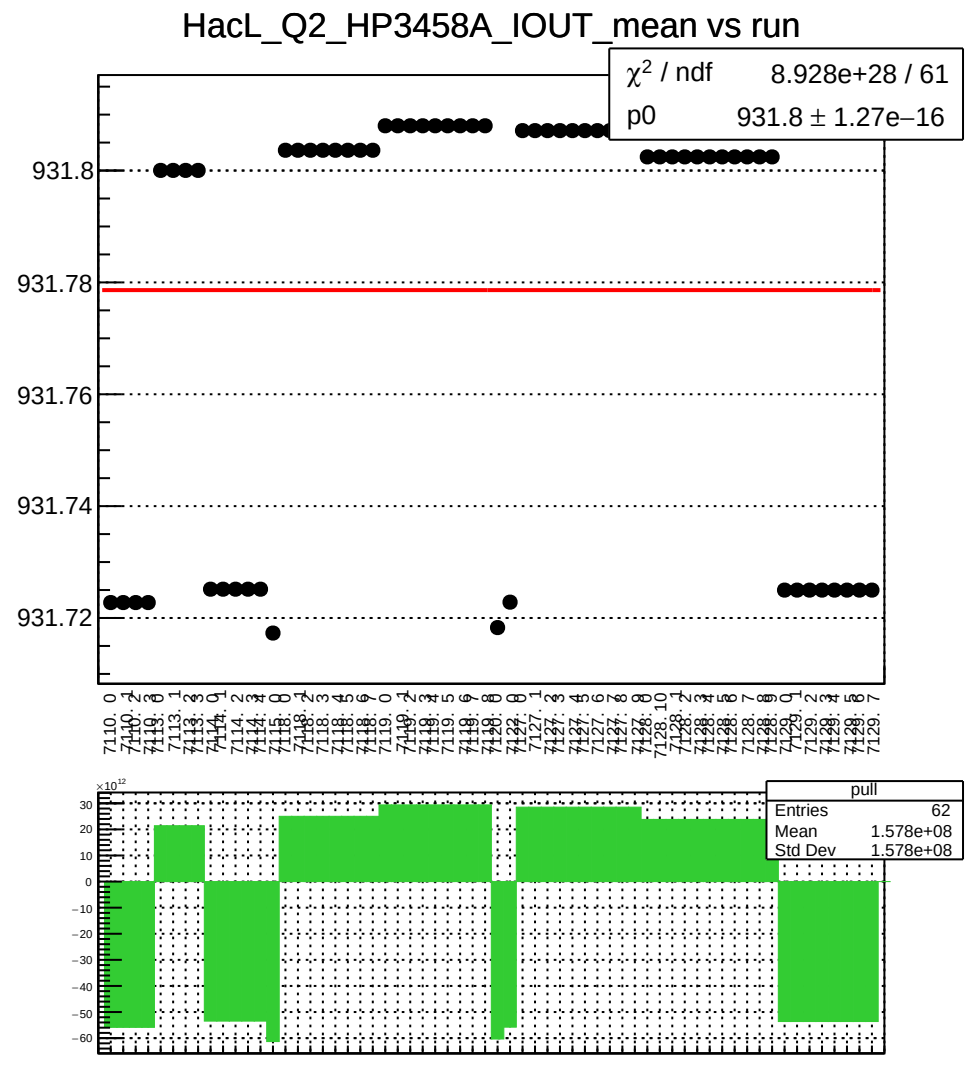

Phi_FG_mean vs run
χ² / ndf 5.008e+04 / 61
p0 88.02 ± 1.27e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 62
Mean 31
Std Dev 17.9
0
−5
−10
−15
−20
−25
pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

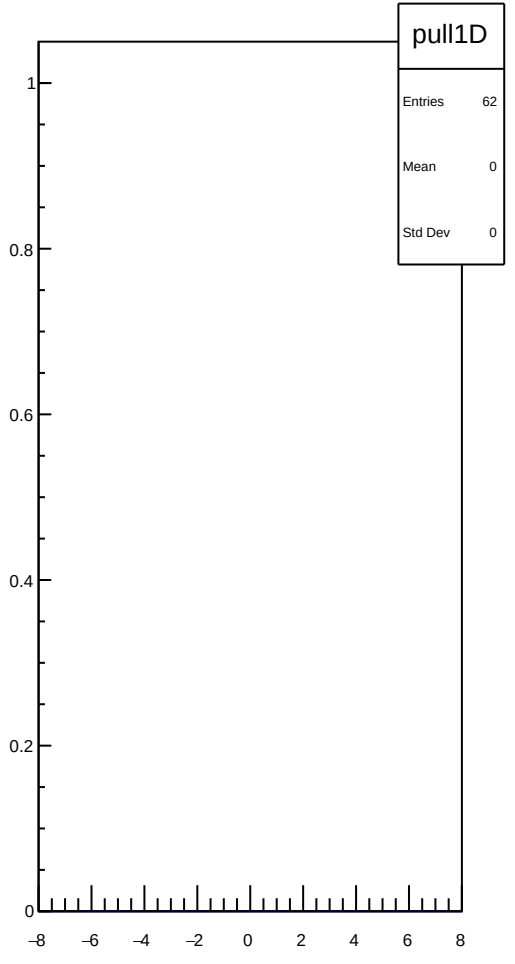

HALLA_p_mean vs run
χ² / ndf 1.968e+33 / 61
p0 2174 ± 1.27e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 62
Mean 1.83e+09
Std Dev 1.83e+09
pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.092e+23 / 61
p0 −7.232e−05 ± 1.27e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
pull
Entries 62
Mean 2.866e+09
Std Dev 2.866e+09
pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

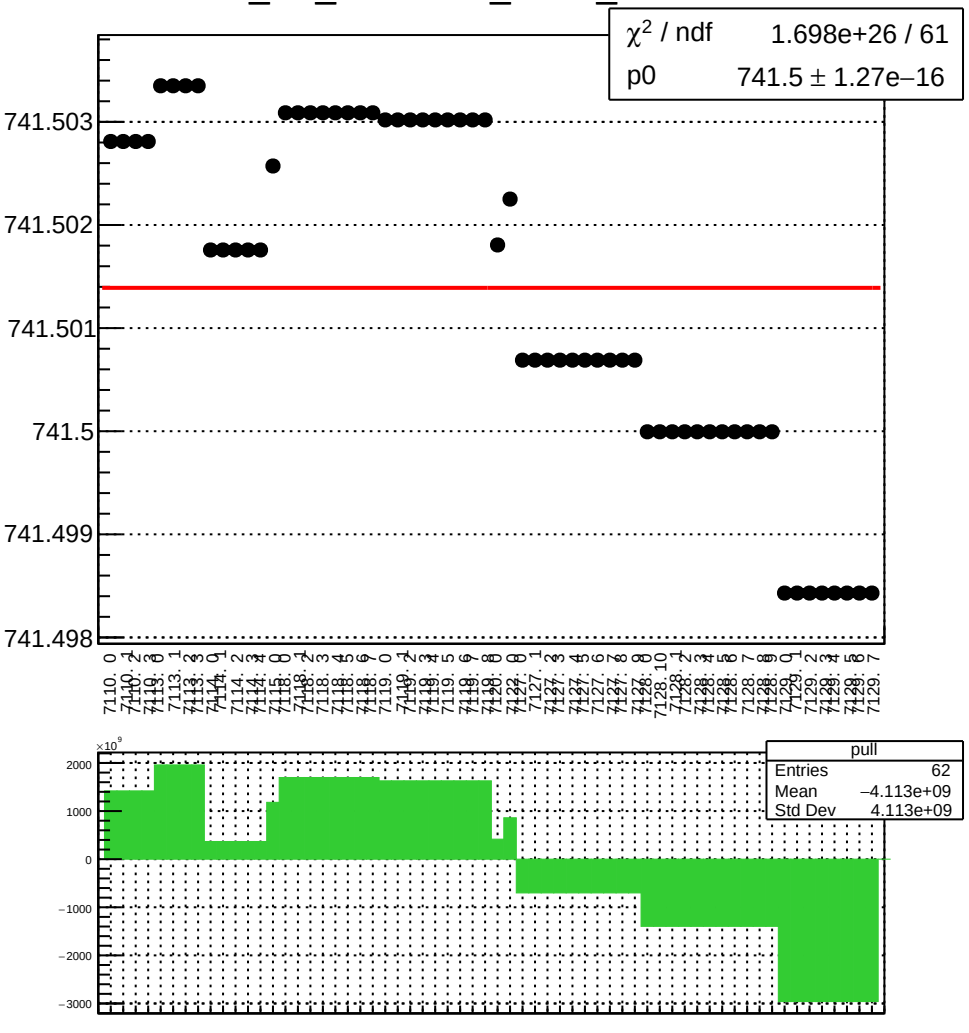

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.0001866 / 61
p0 0.009375 ± 1.27e−16
pull
Entries 62
Mean 31
Std Dev 17.9

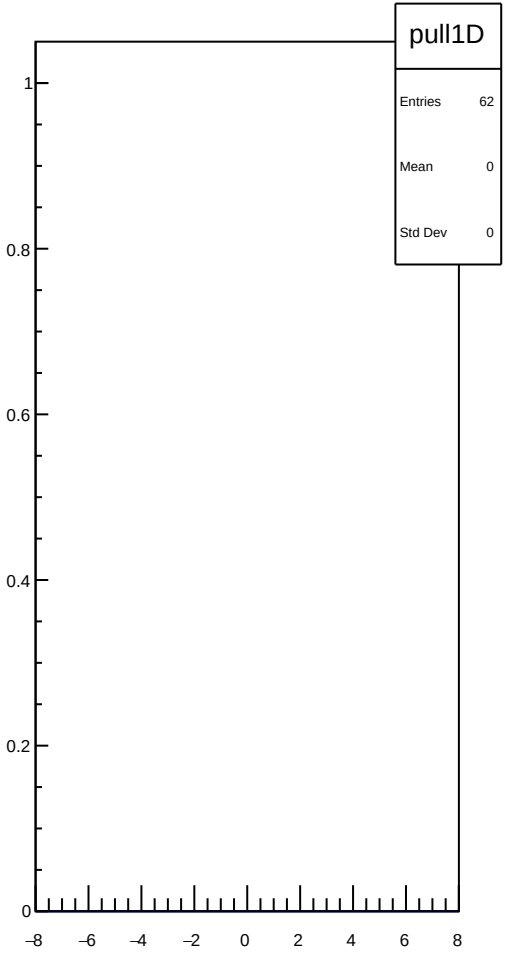

pull1D
Entries 62
Mean 0.001735
Std Dev4.116e−11

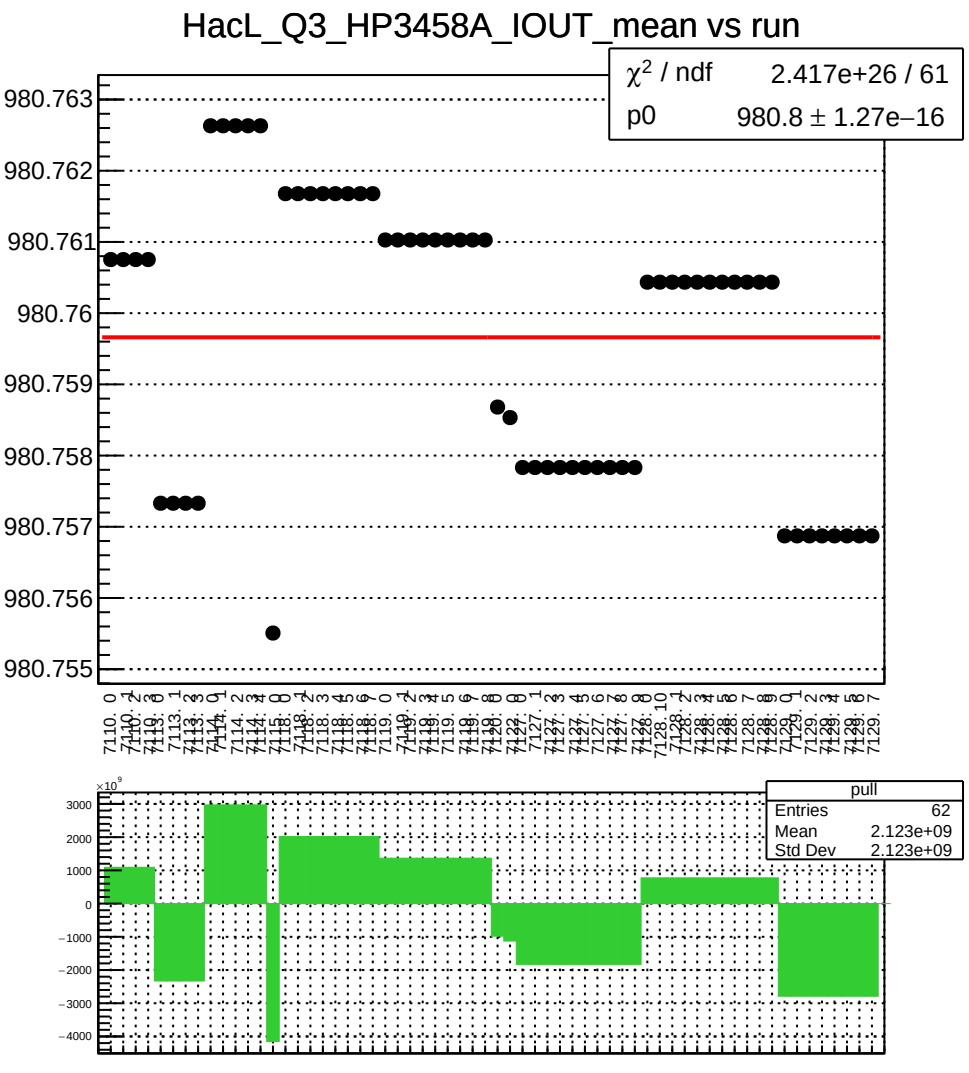

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 8.928e+28 / 61
p0 931.8 ± 1.27e−16
931.8
931.78
931.76
931.74
931.72
pull
Entries 62
Mean 1.578e+08
Std Dev 1.578e+08
×10¹²
30
20
10
0
−10
−20
−30
−40
−50
−60

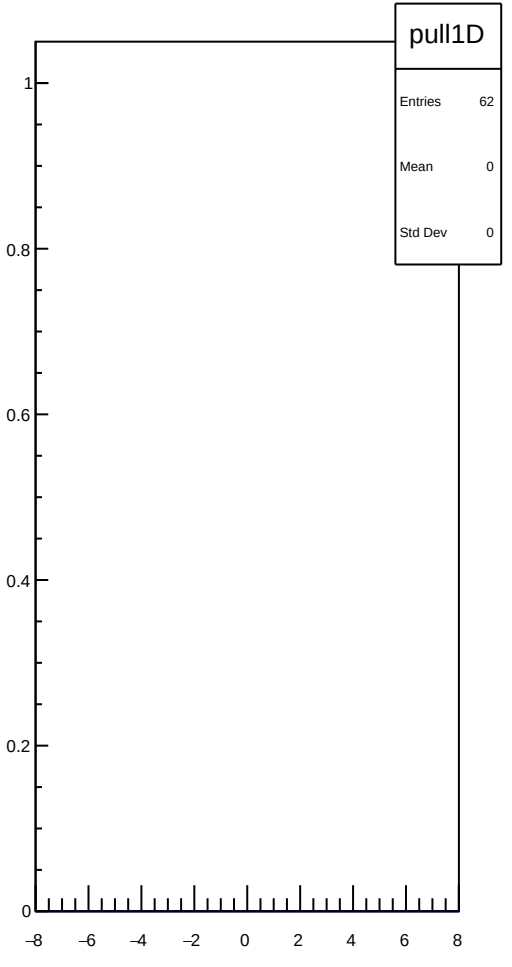

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

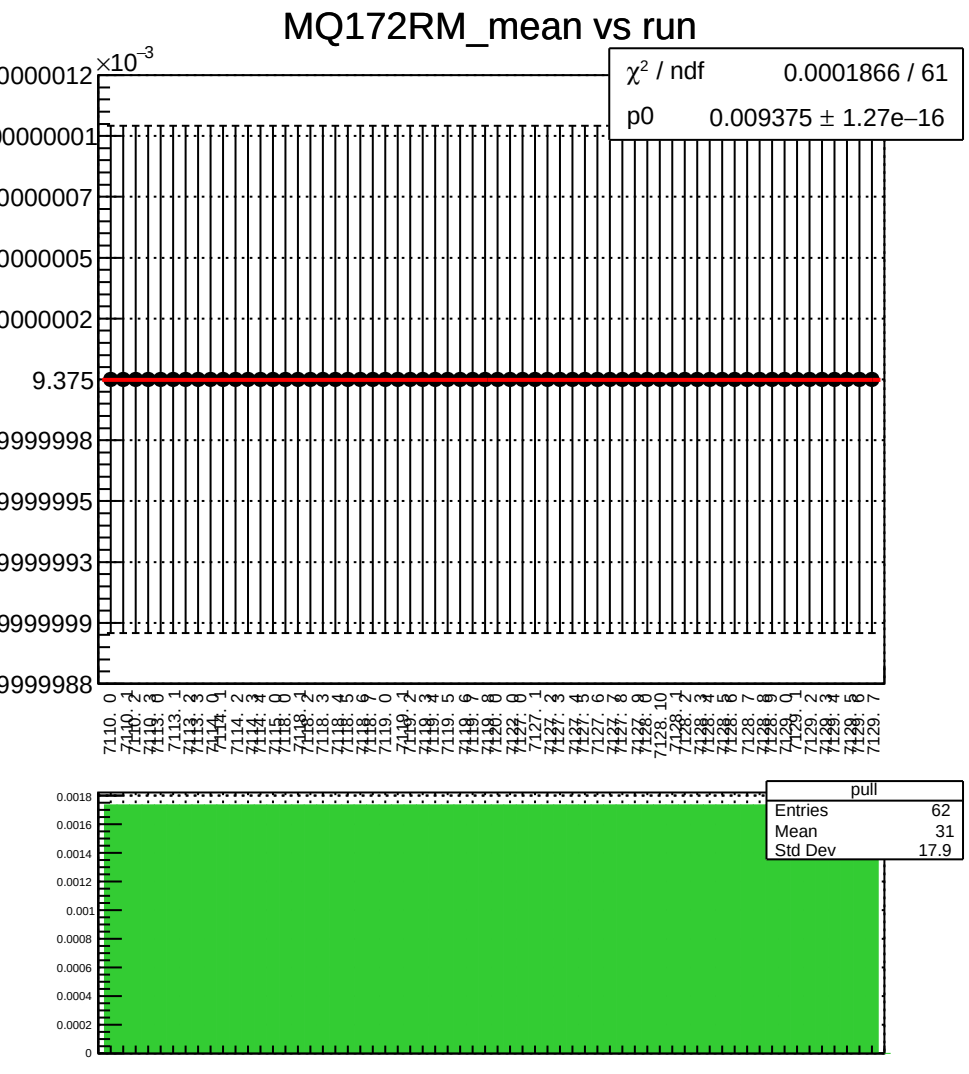
HacL_D1_HP3458A_IOUT_mean vs run

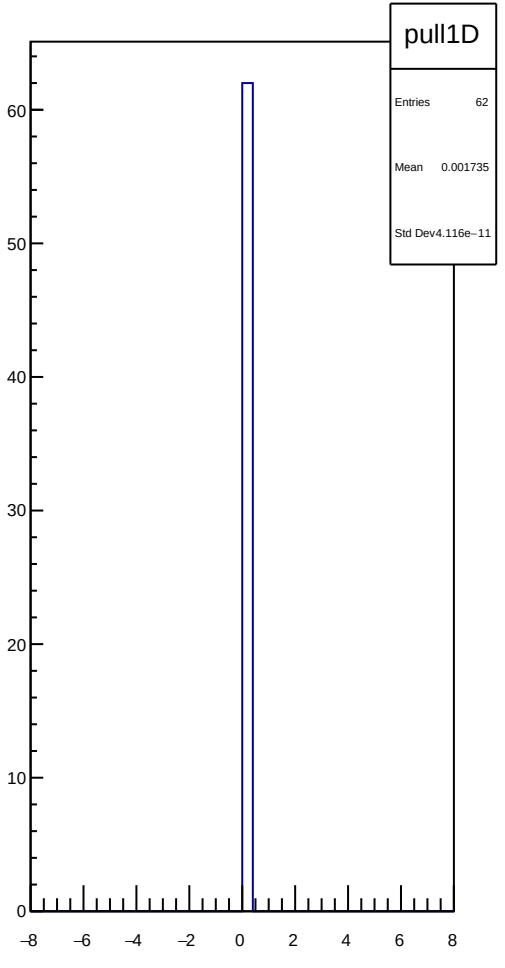


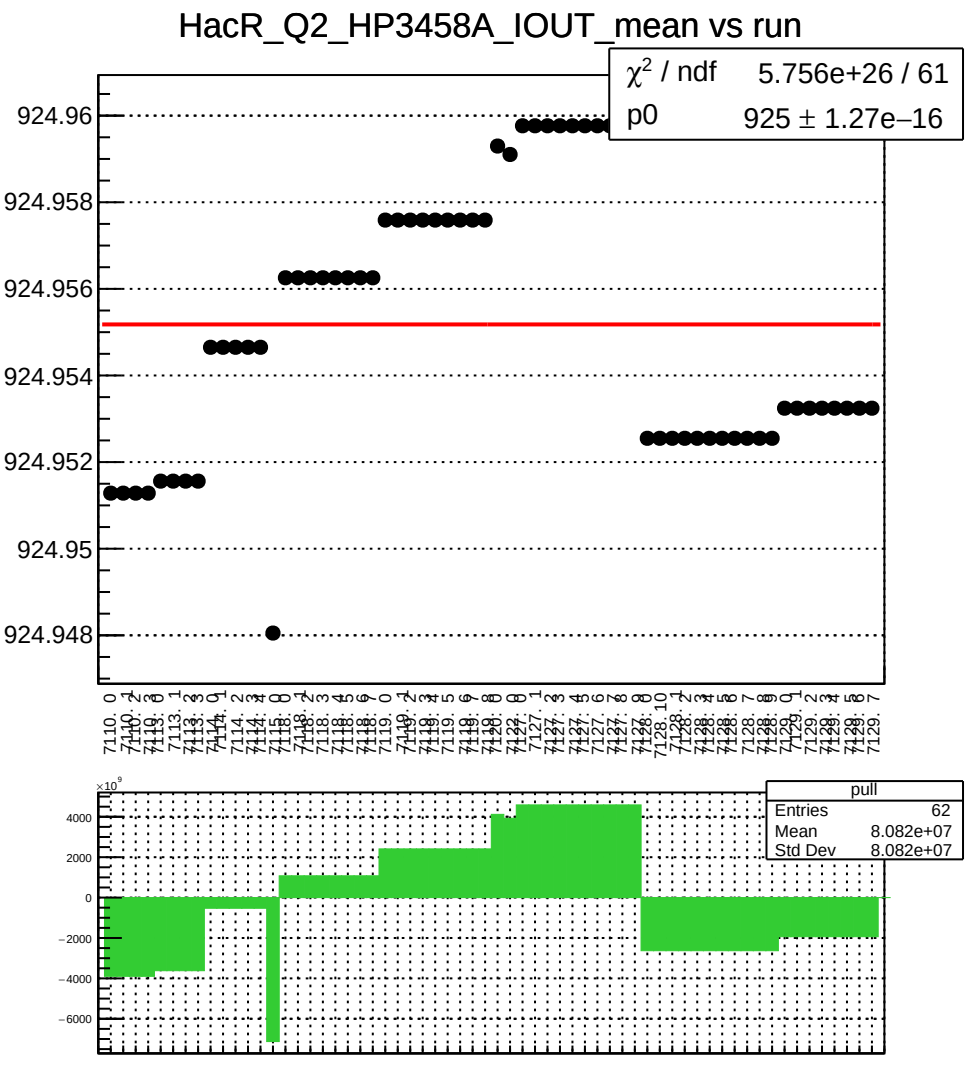


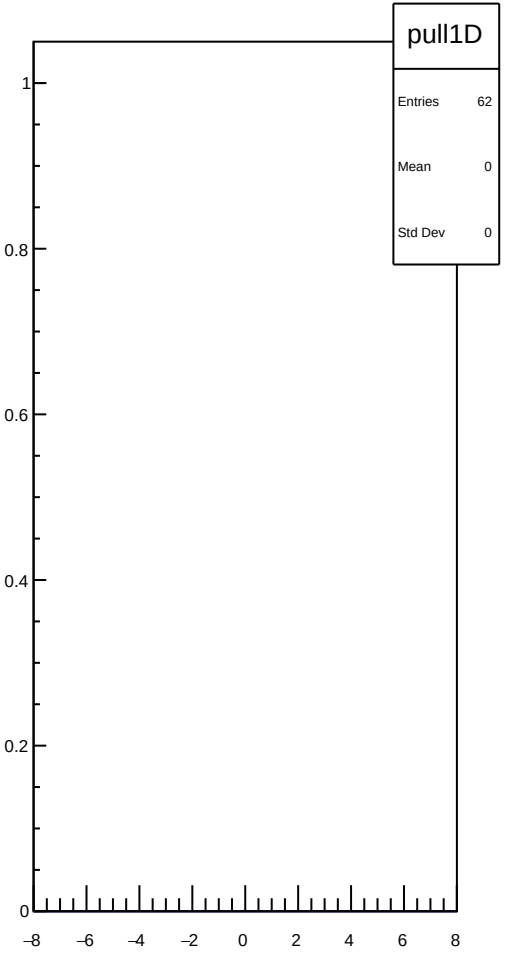

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.417e+26 / 61
p0 980.8 ± 1.27e−16
980.763
980.762
980.761
980.76
980.759
980.758
980.757
980.756
980.755
pull
Entries 62
Mean 2.123e+09
Std Dev 2.123e+09
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000

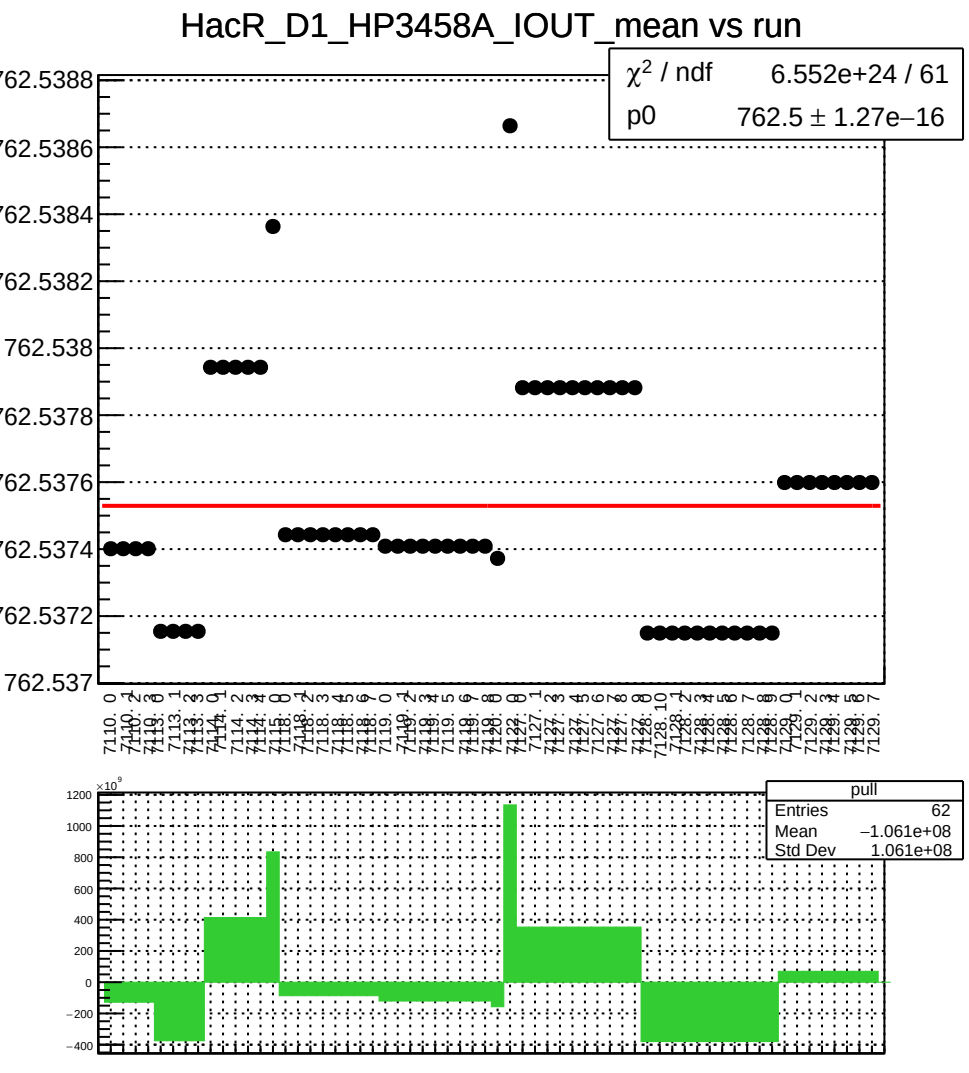

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

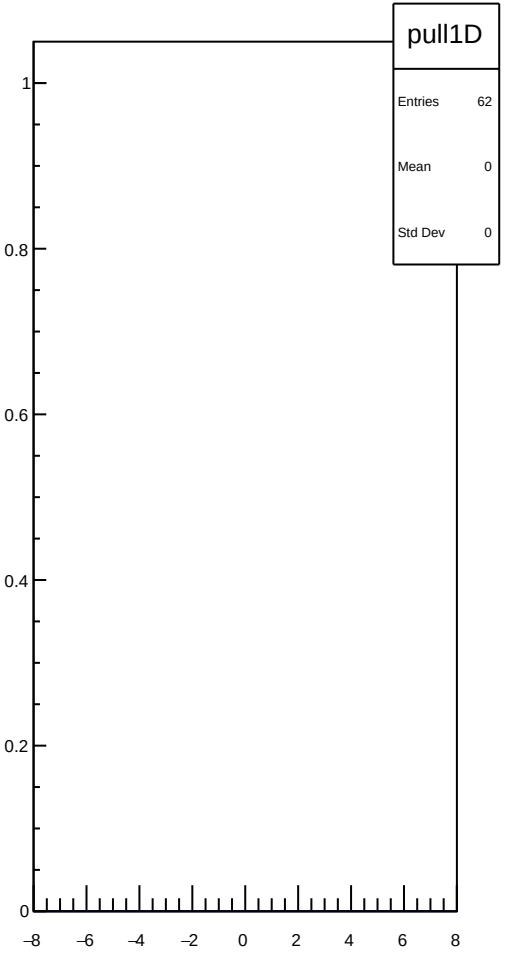

MQ172RM_mean vs run
χ² / ndf 0.0001866 / 61
p0 0.009375 ± 1.27e−16
×10⁻³
pull
Entries 62
Mean 31
Std Dev 17.9

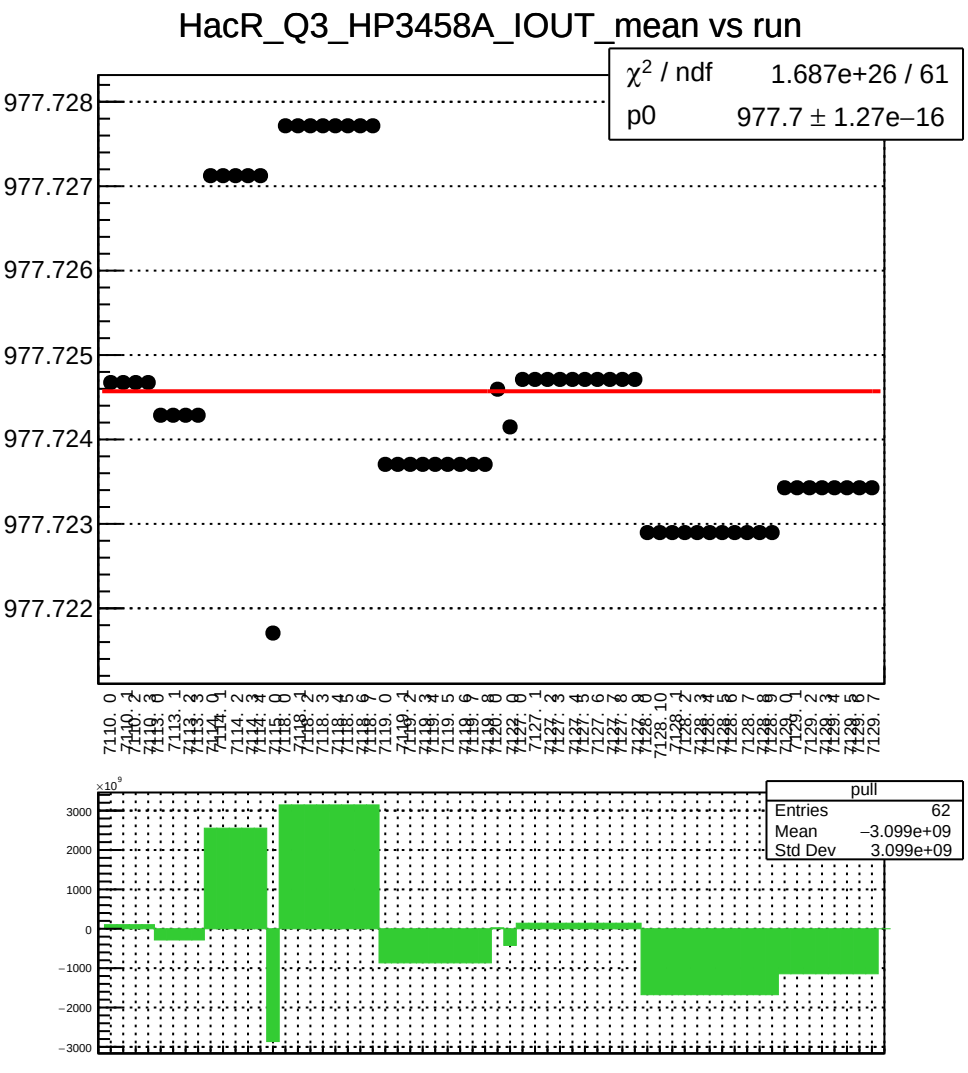

pull1D
Entries 62
Mean 0.001735
Std Dev4.116e−11

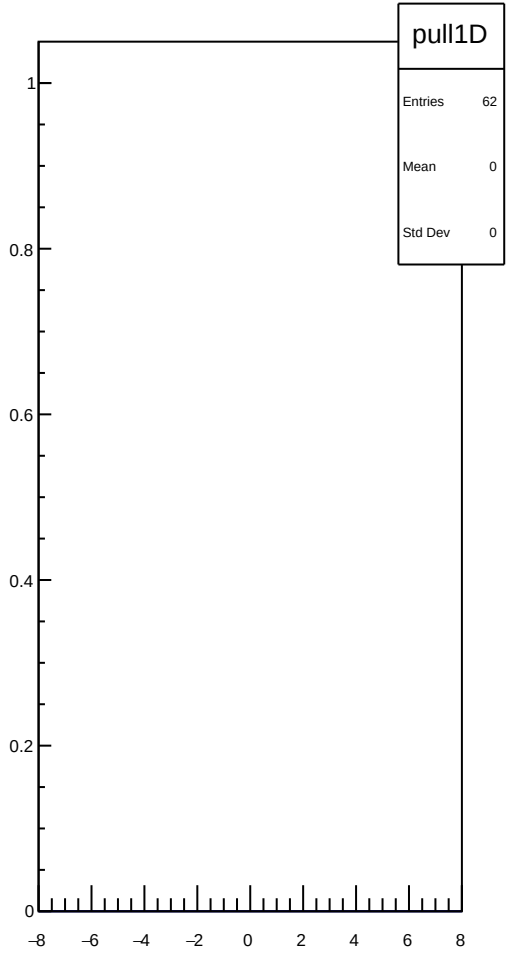

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 5.756e+26 / 61
p0 925 ± 1.27e−16
924.96
924.958
924.956
924.954
924.952
924.95
924.948
pull
Entries 62
Mean 8.082e+07
Std Dev 8.082e+07
×10⁹
4000
2000
0
−2000
−4000
−6000

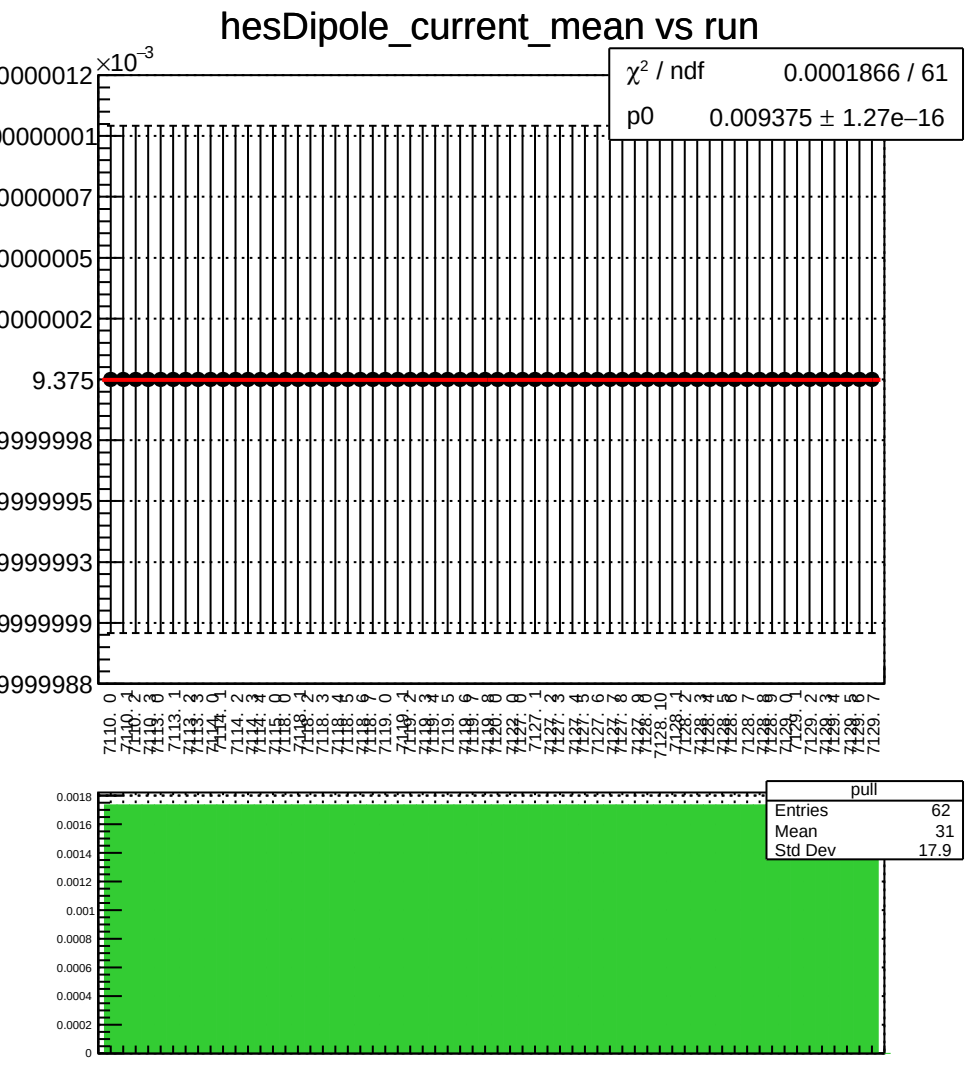

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

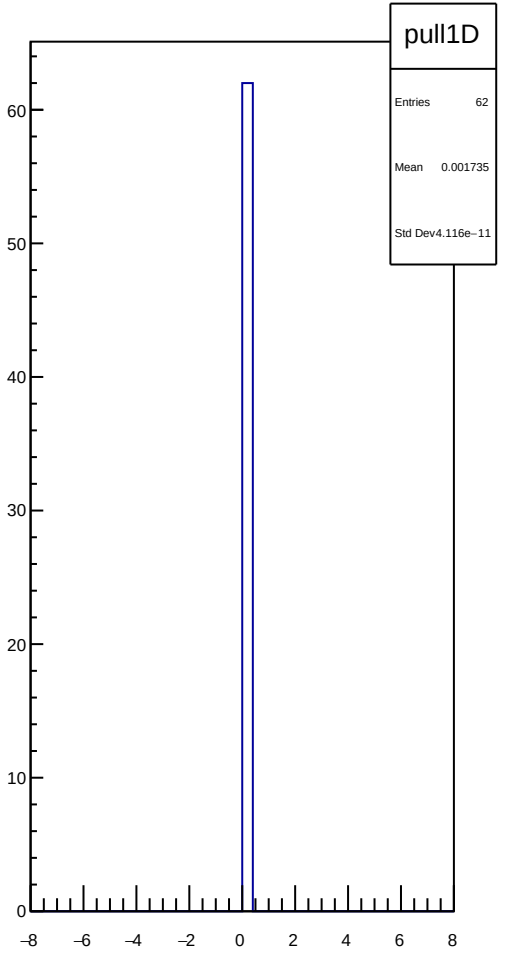

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 6.552e+24 / 61
p0 762.5 ± 1.27e−16
762.5388
762.5386
762.5384
762.5382
762.538
762.5378
762.5376
762.5374
762.5372
762.537
×10⁹
1200
1000
800
600
400
200
0
−200
−400
pull
Entries 62
Mean −1.061e+08
Std Dev 1.061e+08

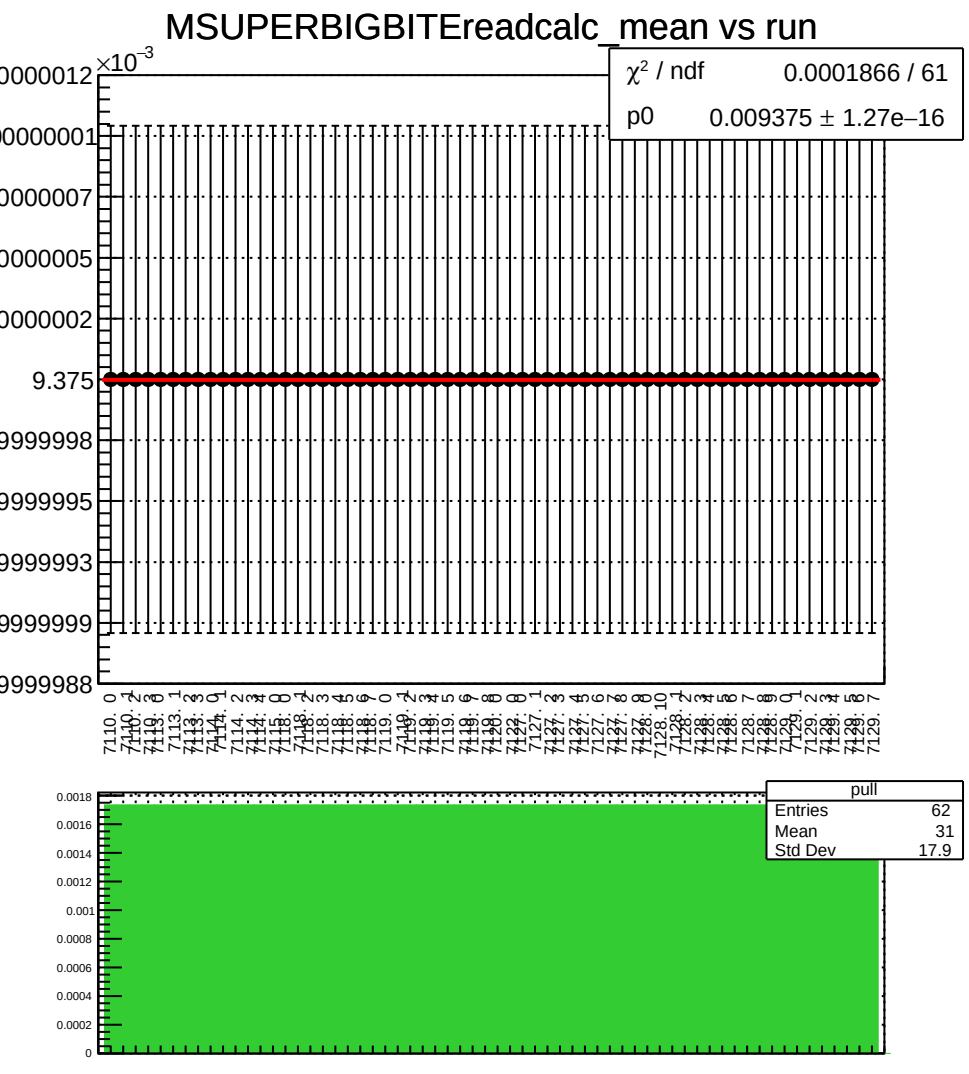

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

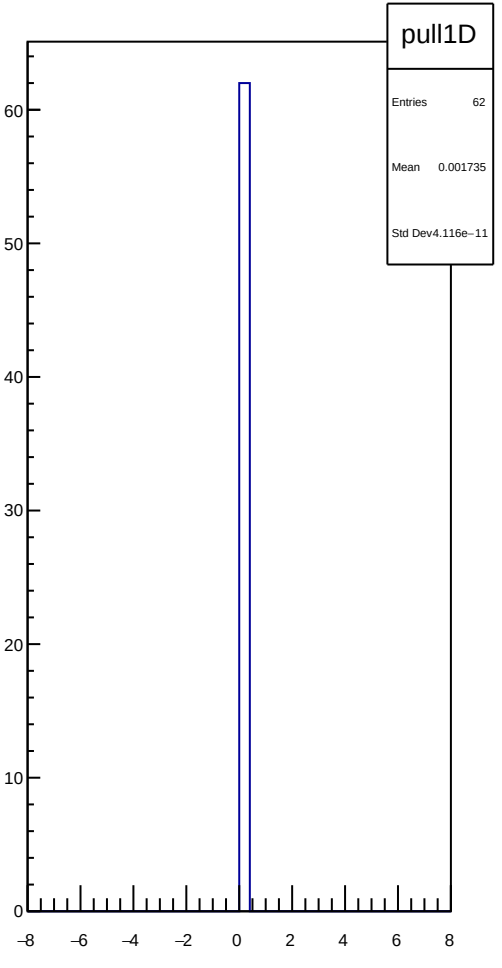

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.687e+26 / 61
p0 977.7 ± 1.27e−16
977.728
977.727
977.726
977.725
977.724
977.723
977.722
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 62
Mean −3.099e+09
Std Dev 3.099e+09

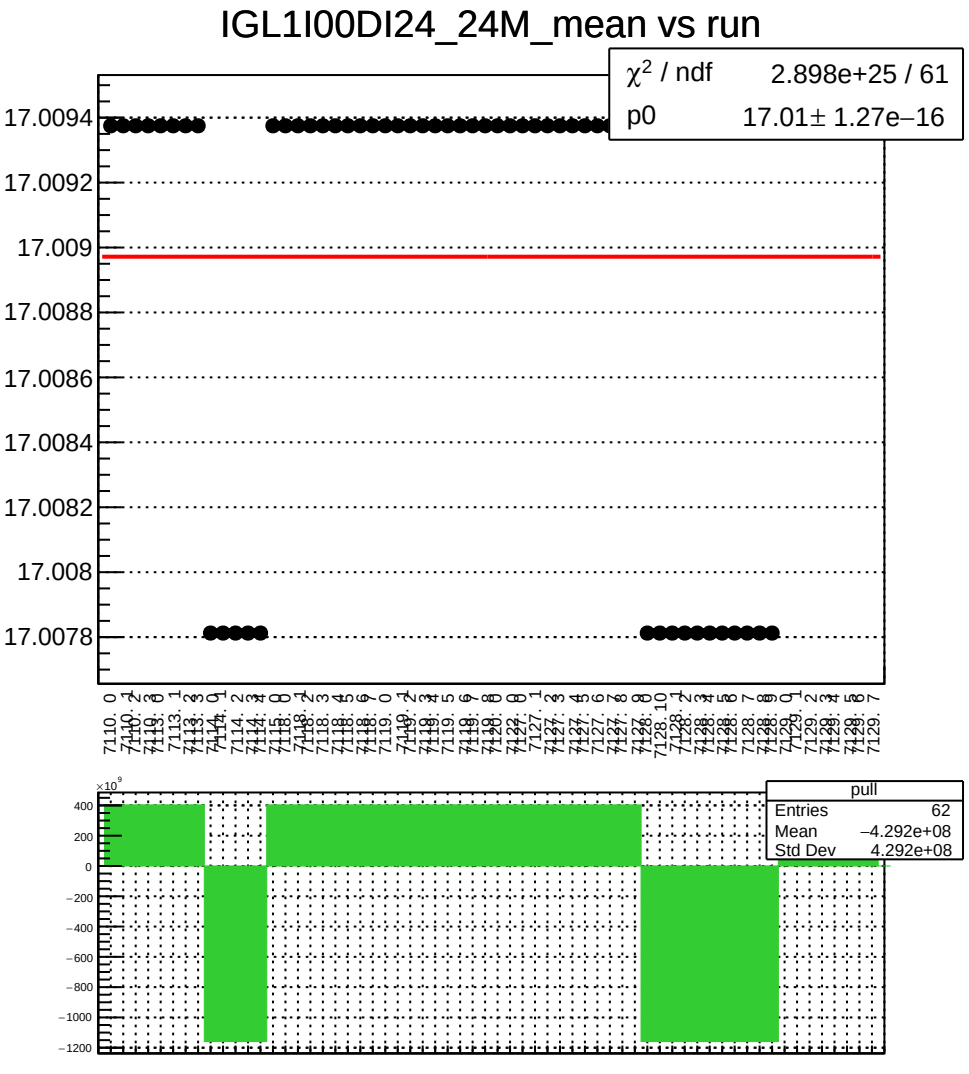

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

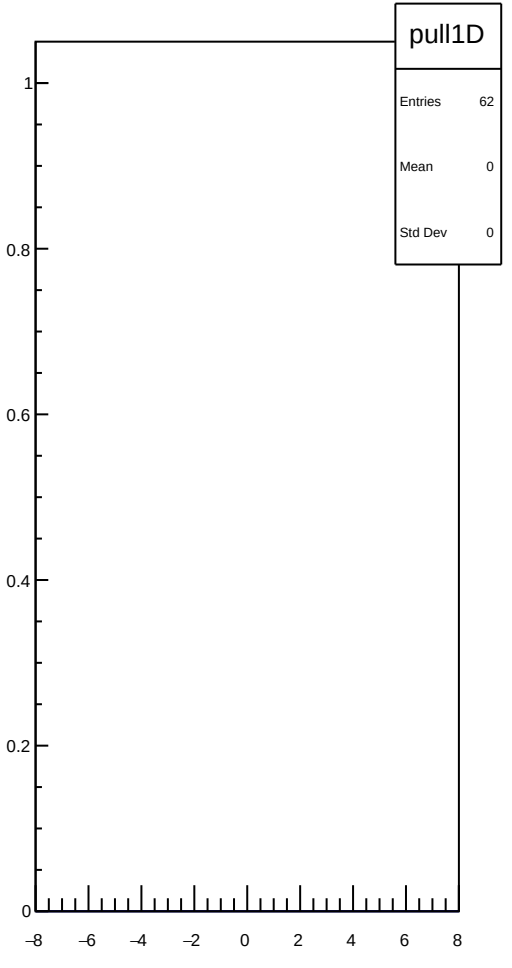

hesDipole_current_mean vs run
χ² / ndf 0.0001866 / 61
p0 0.009375 ± 1.27e−16
×10⁻³
pull
Entries 62
Mean 31
Std Dev 17.9

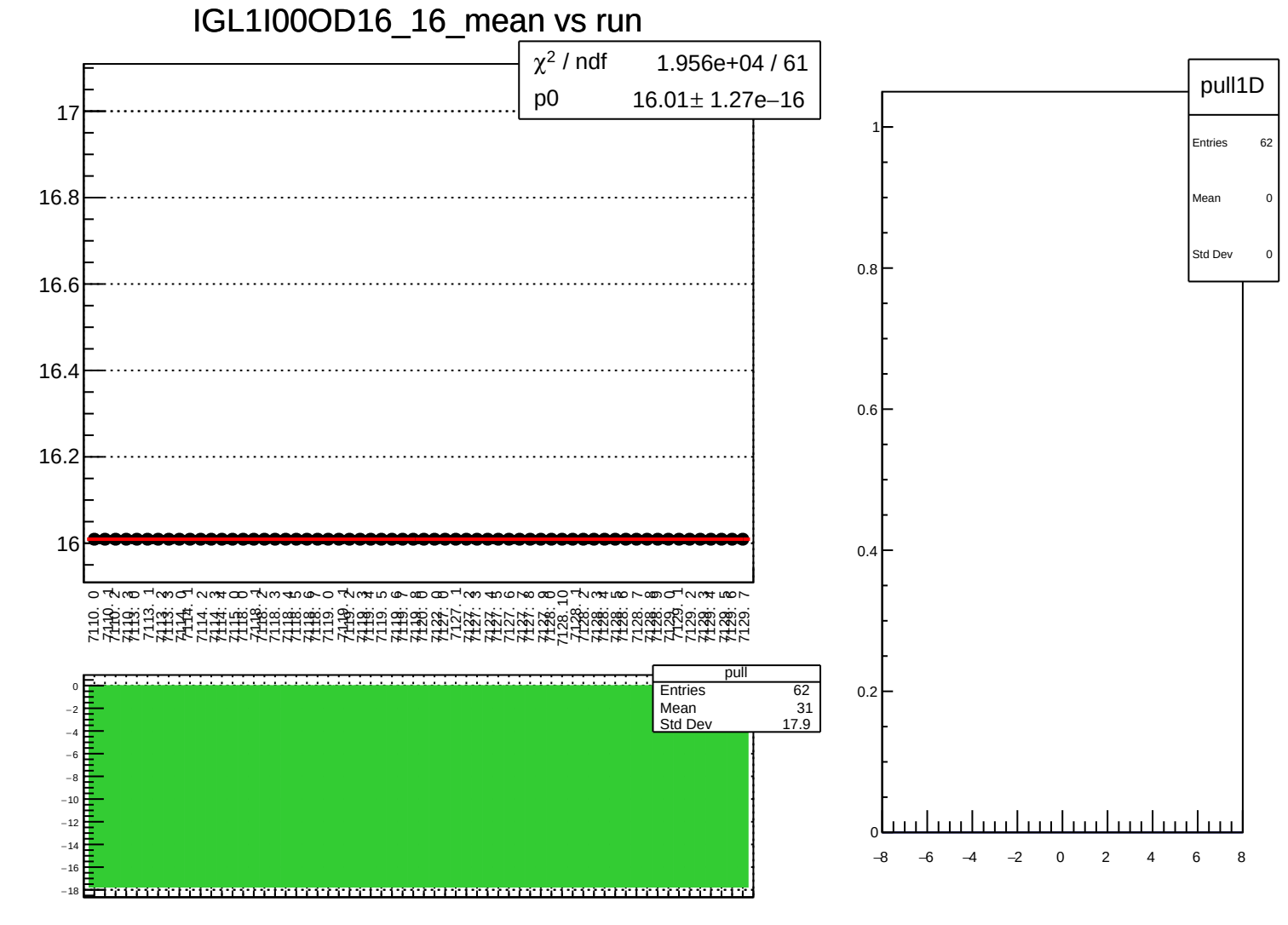

pull1D
Entries 62
Mean 0.001735
Std Dev4.116e−11

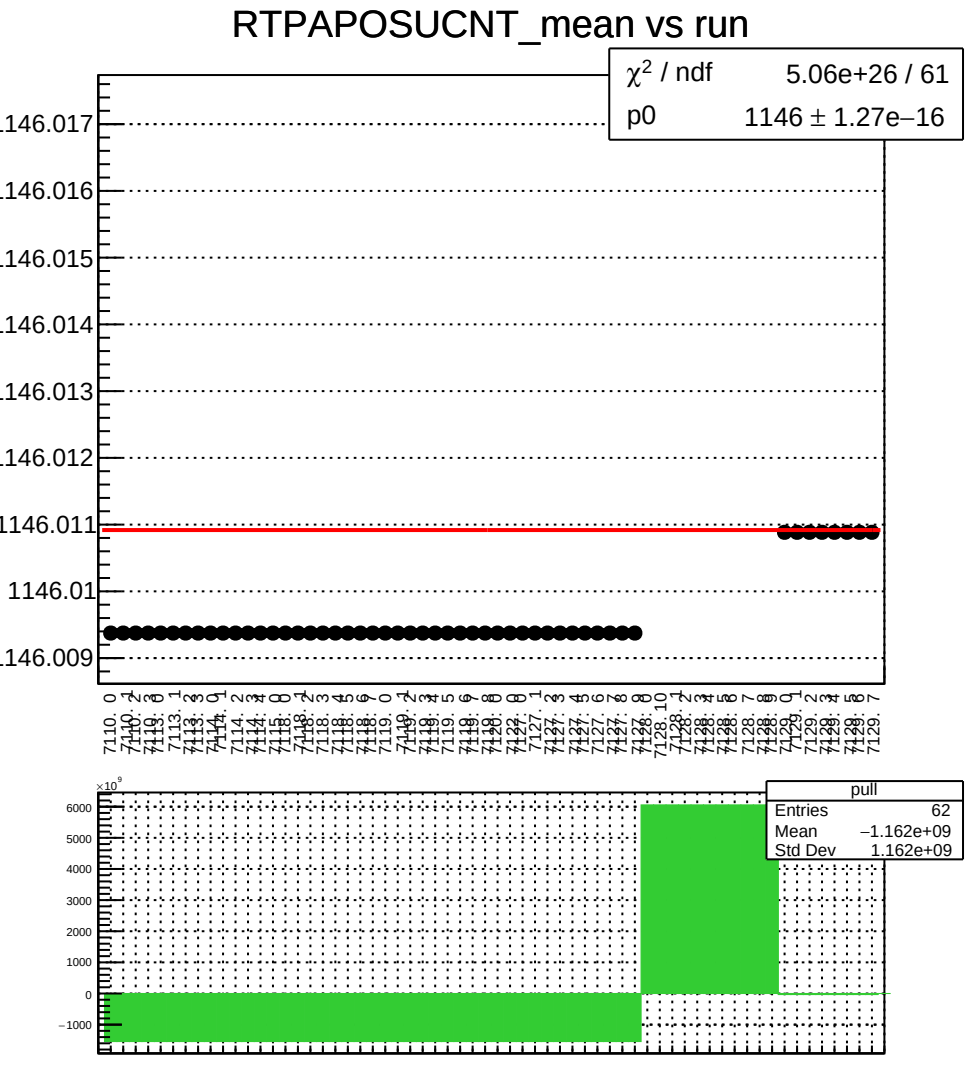

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0001866 / 61
p0 0.009375 ± 1.27e−16
×10⁻³
pull
Entries 62
Mean 31
Std Dev 17.9

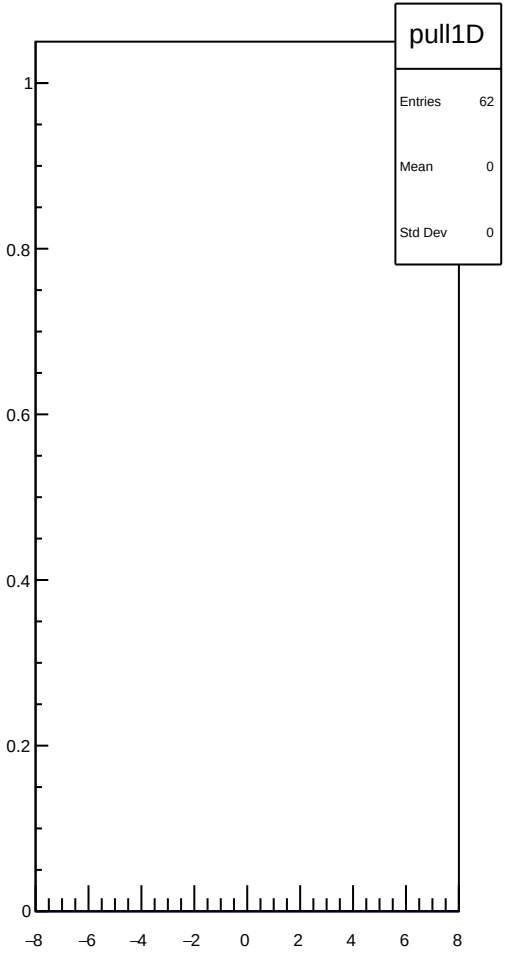

pull1D
Entries 62
Mean 0.001735
Std Dev4.116e−11

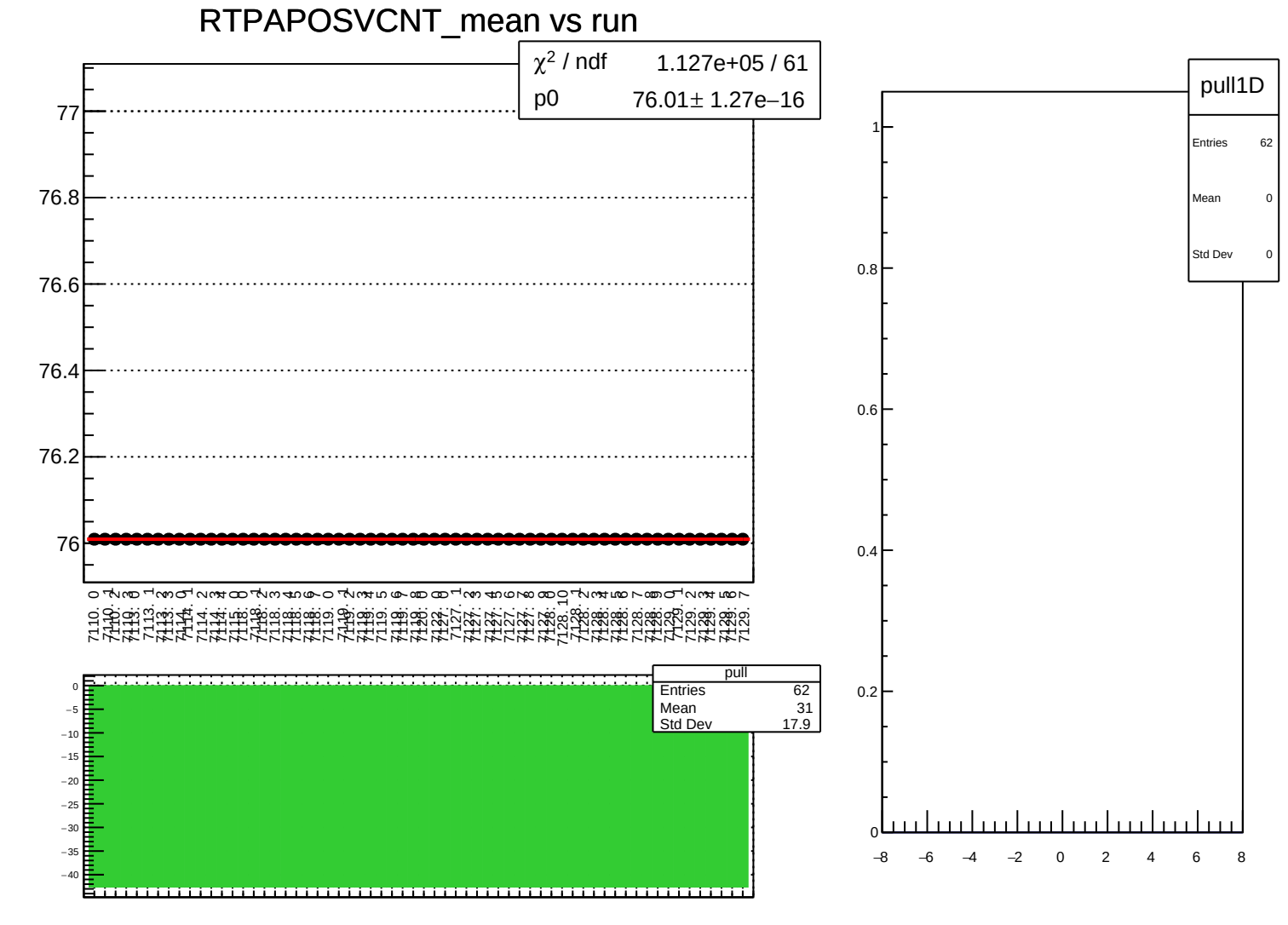

IGL1I00DI24_24M_mean vs run
χ² / ndf 2.898e+25 / 61
p0 17.01± 1.27e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 62
Mean −4.292e+08
Std Dev 4.292e+08
×10⁹
400
200
0
−200
−400
−600
−800
−1000
−1200


pull1D
Entries 62
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 1.956e+04 / 61
p0 16.01± 1.27e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 62
Mean 31
Std Dev 17.9
pull1D
Entries 62
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 5.06e+26 / 61
p0 1146 ± 1.27e−16
1146.017
1146.016
1146.015
1146.014
1146.013
1146.012
1146.011
1146.01
1146.009
pull
Entries 62
Mean −1.162e+09
Std Dev 1.162e+09
×10⁹
6000
5000
4000
3000
2000
1000
0
−1000


pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 1.127e+05 / 61
p0 76.01± 1.27e−16
77
76.8
76.6
76.4
76.2
76
pull
Entries 62
Mean 31
Std Dev 17.9
0
−5
−10
−15
−20
−25
−30
−35
−40
pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8