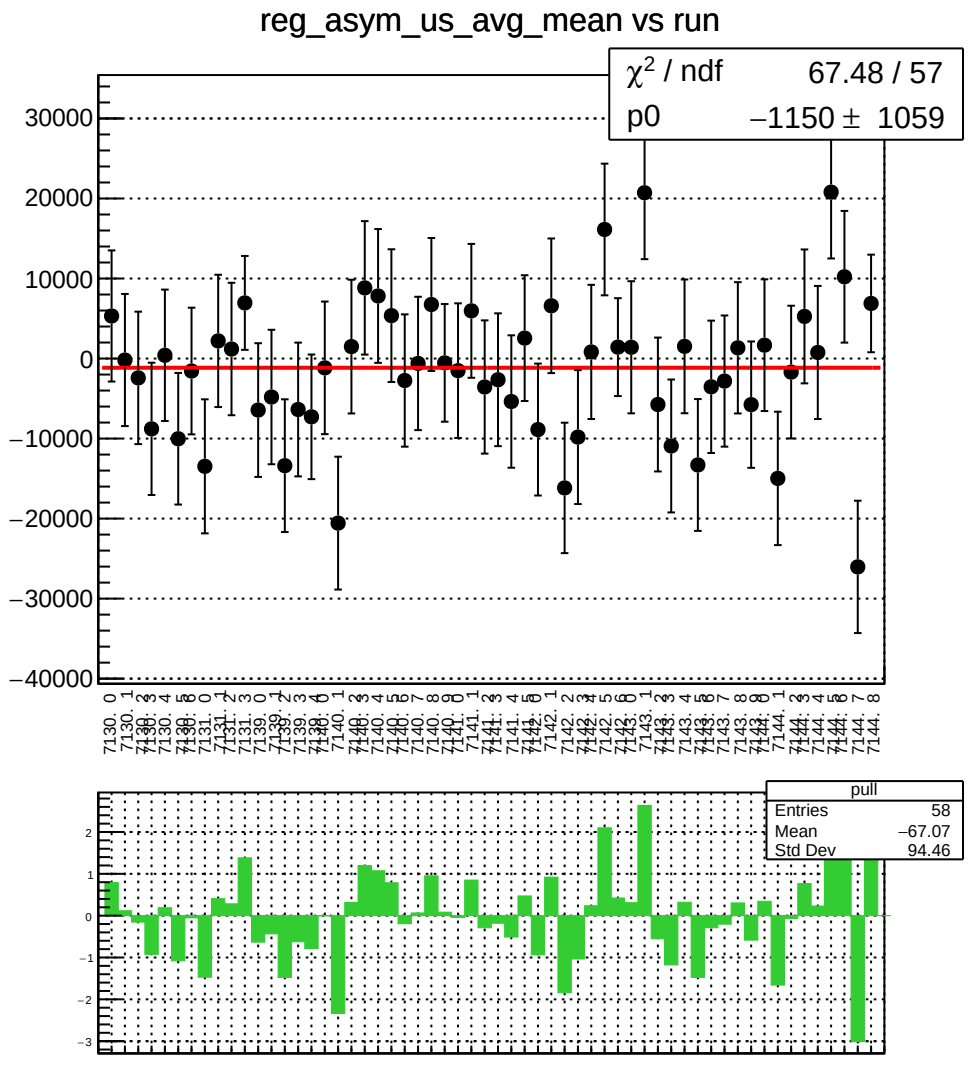
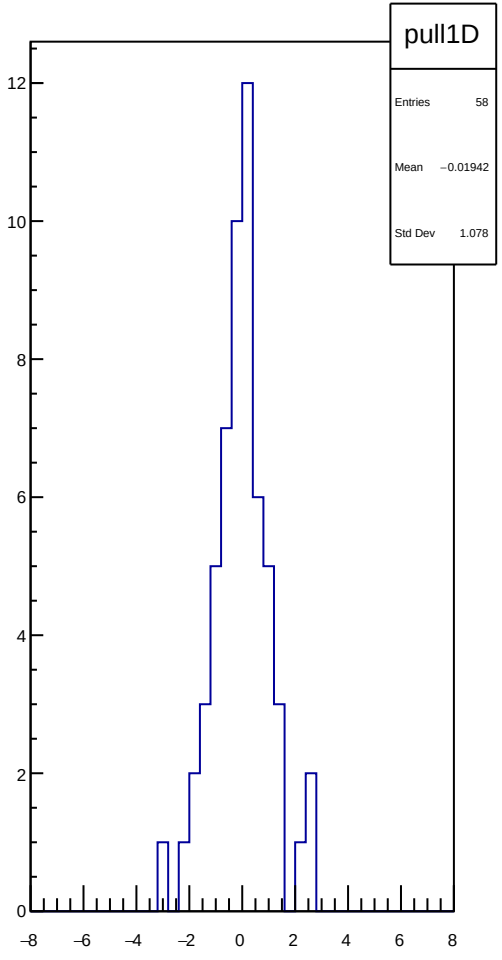
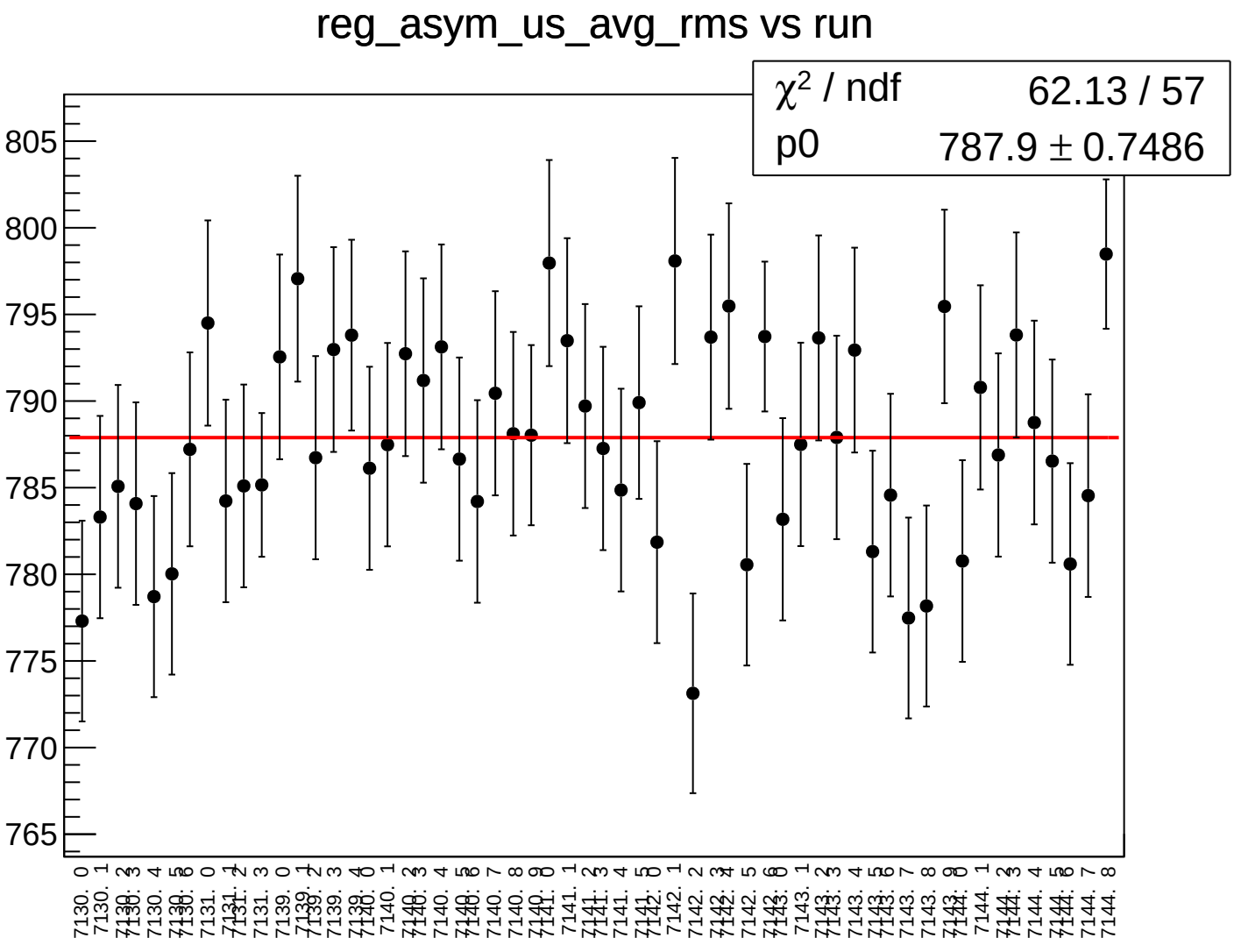
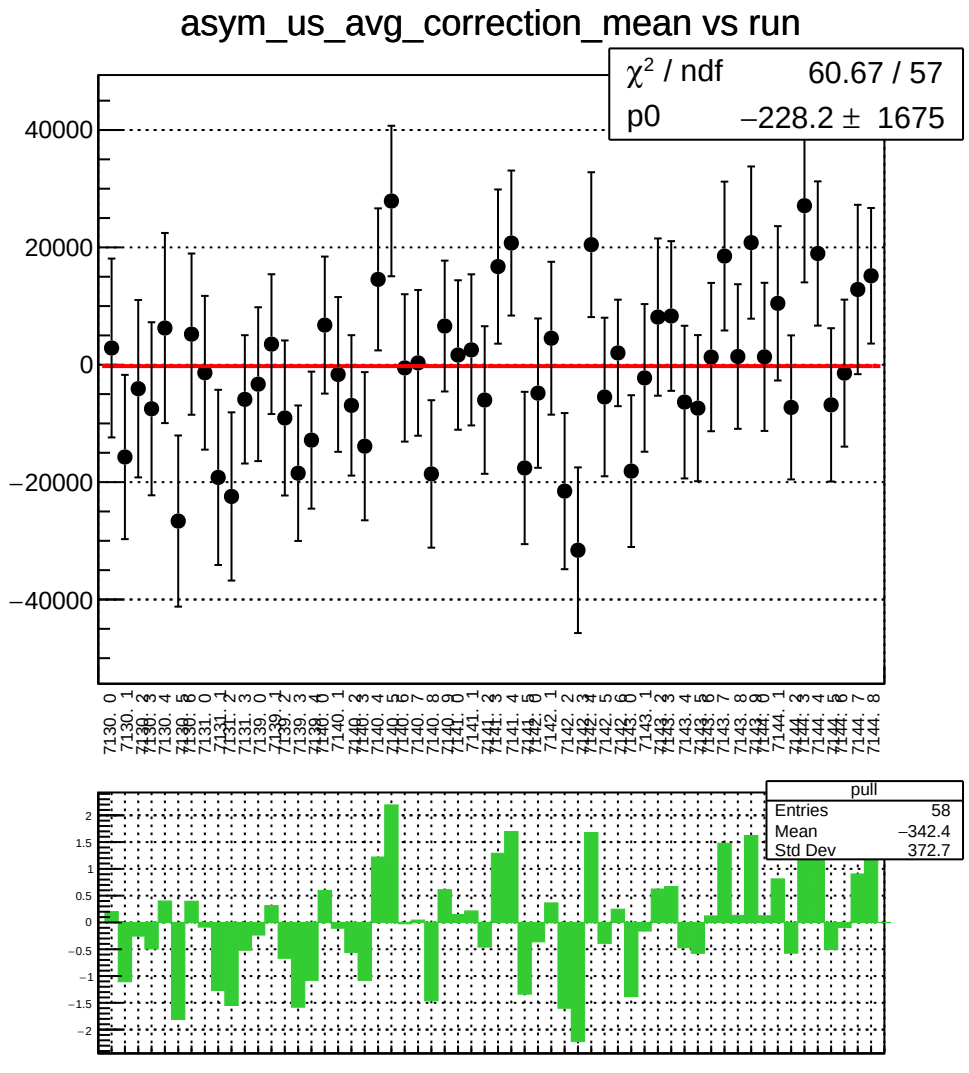
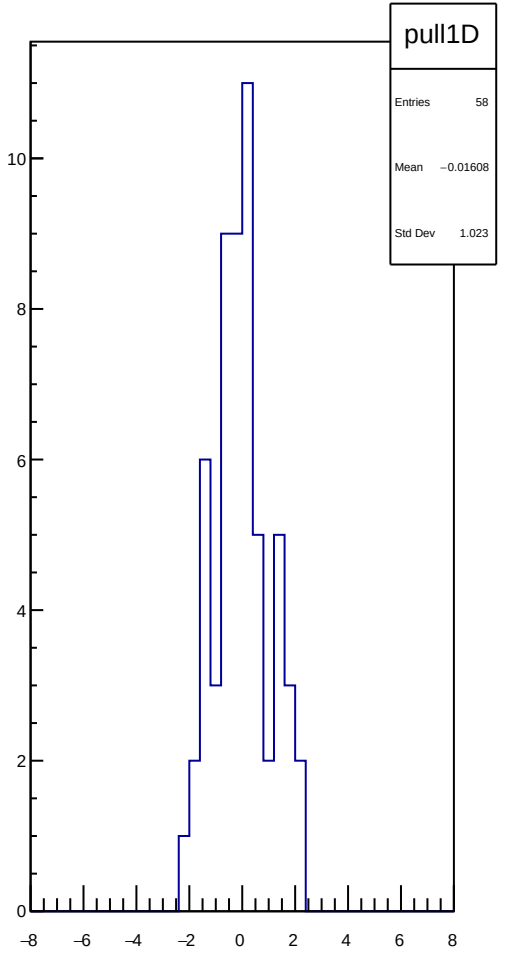
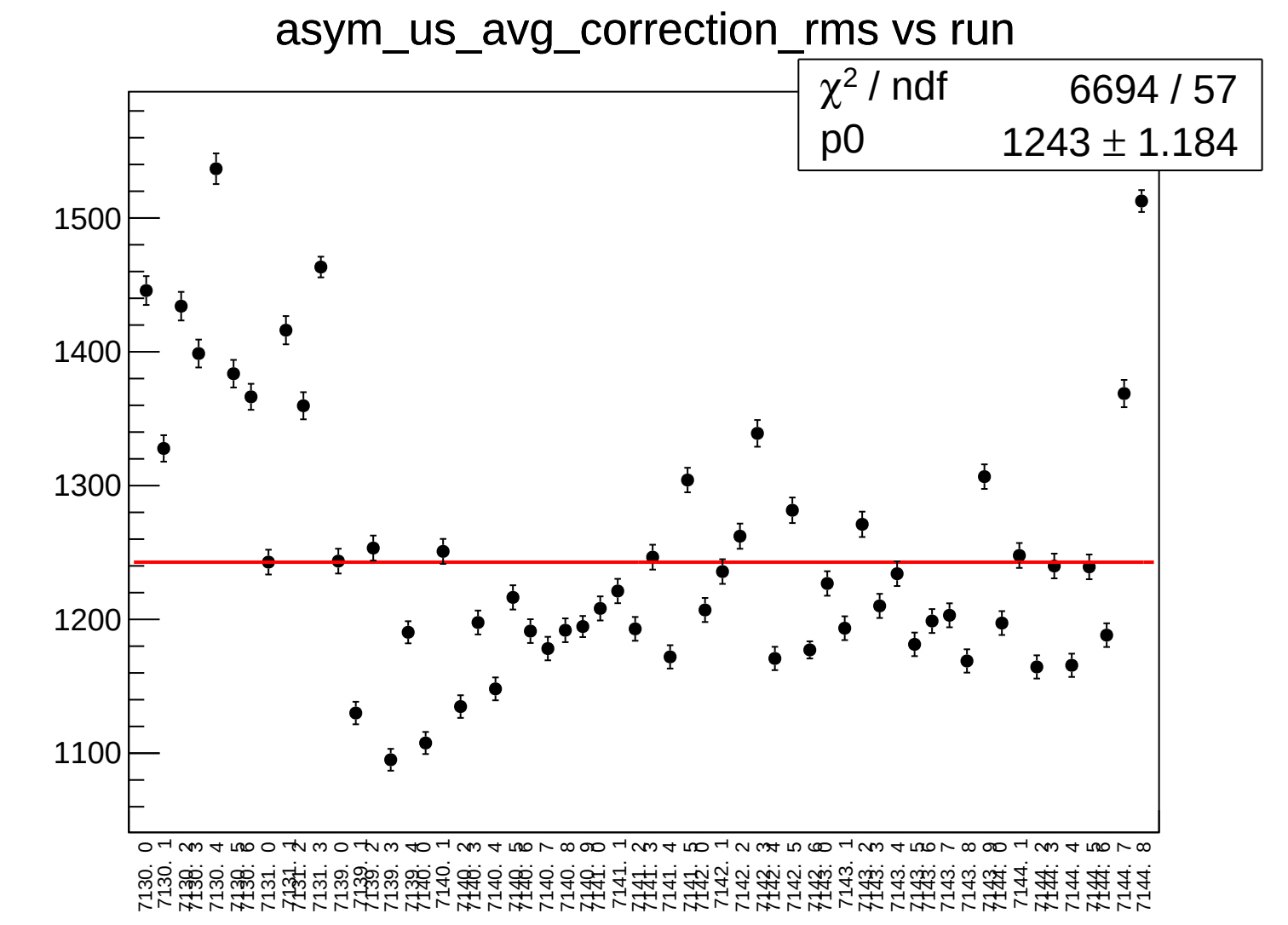

reg_asym_us_avg_mean vs run
χ² / ndf 67.48 / 57
p0 −1150 ± 1059
pull
Entries 58
Mean −67.07
Std Dev 94.46

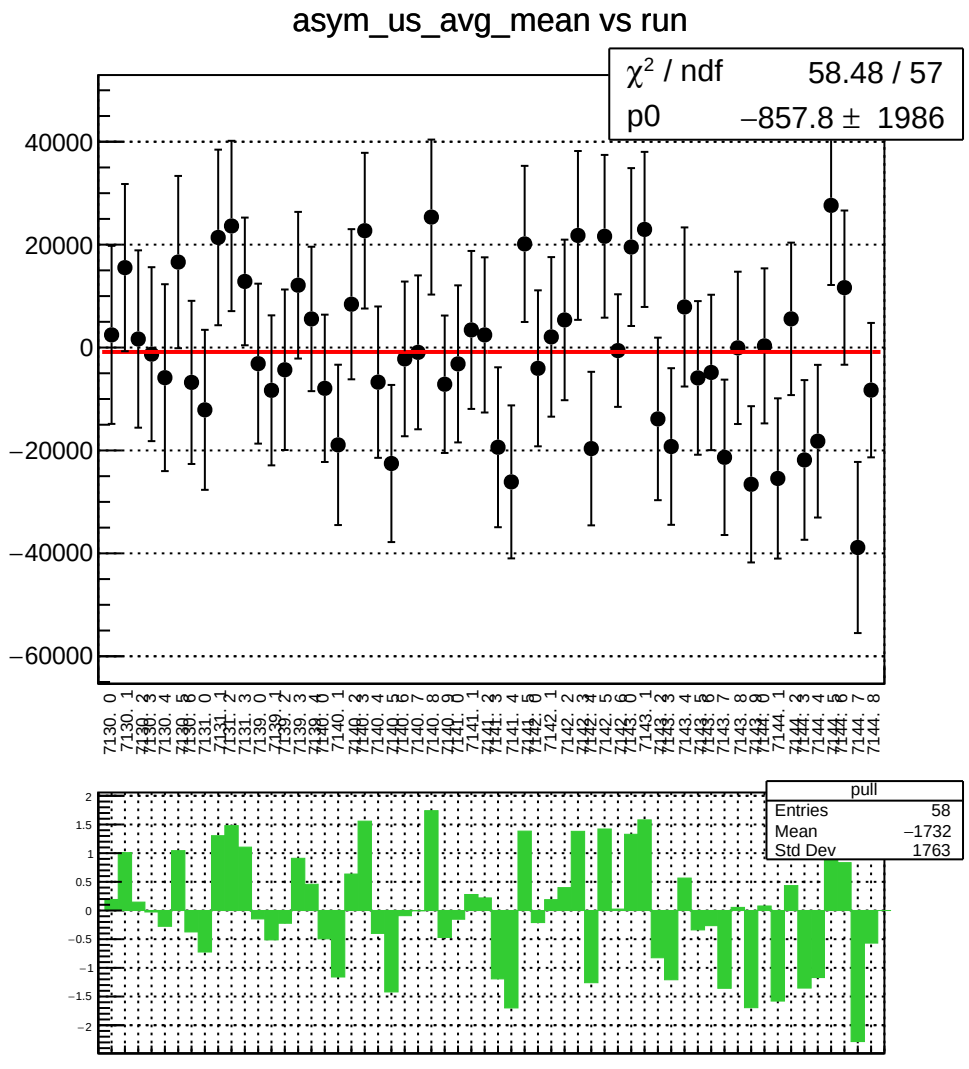

pull1D
Entries 58
Mean −0.01942
Std Dev 1.078

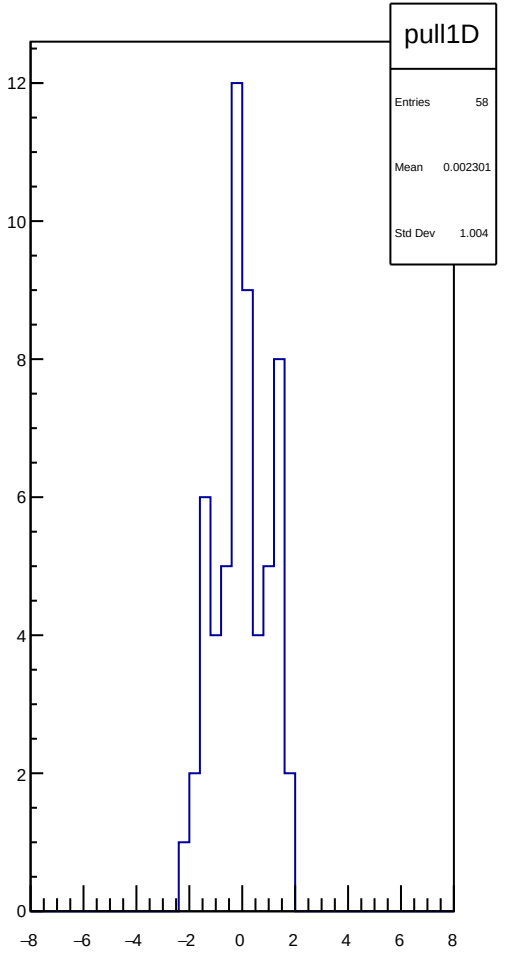

reg_asym_us_avg_rms vs run
χ^2 / ndf 62.13 / 57
p0 787.9 ± 0.7486
805
800
795
790
785
780
775
770
765

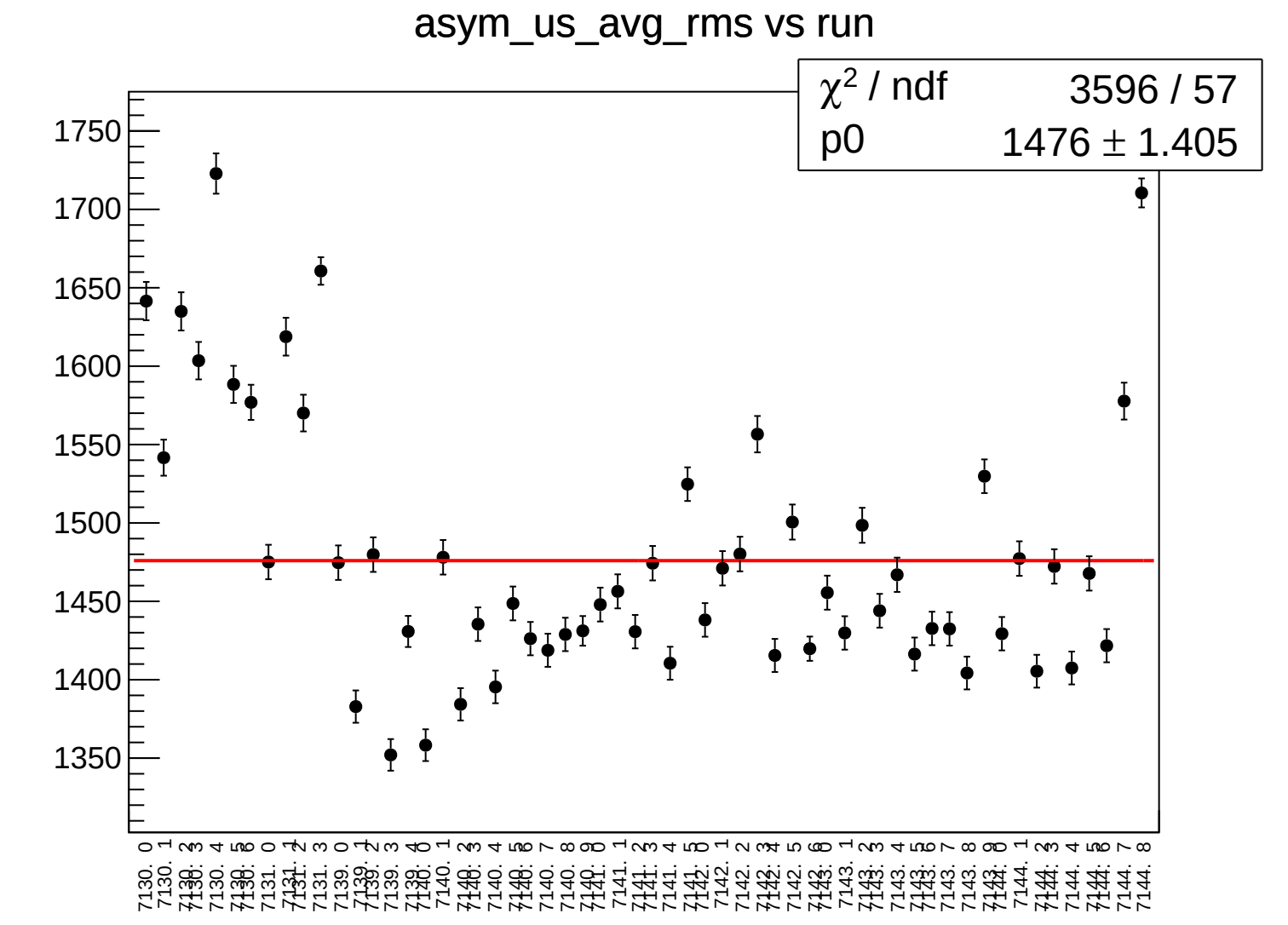

asym_us_avg_correction_mean vs run
χ² / ndf 60.67 / 57
p0 −228.2 ± 1675
40000
20000
0
−20000
−40000
pull
Entries 58
Mean −342.4
Std Dev 372.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

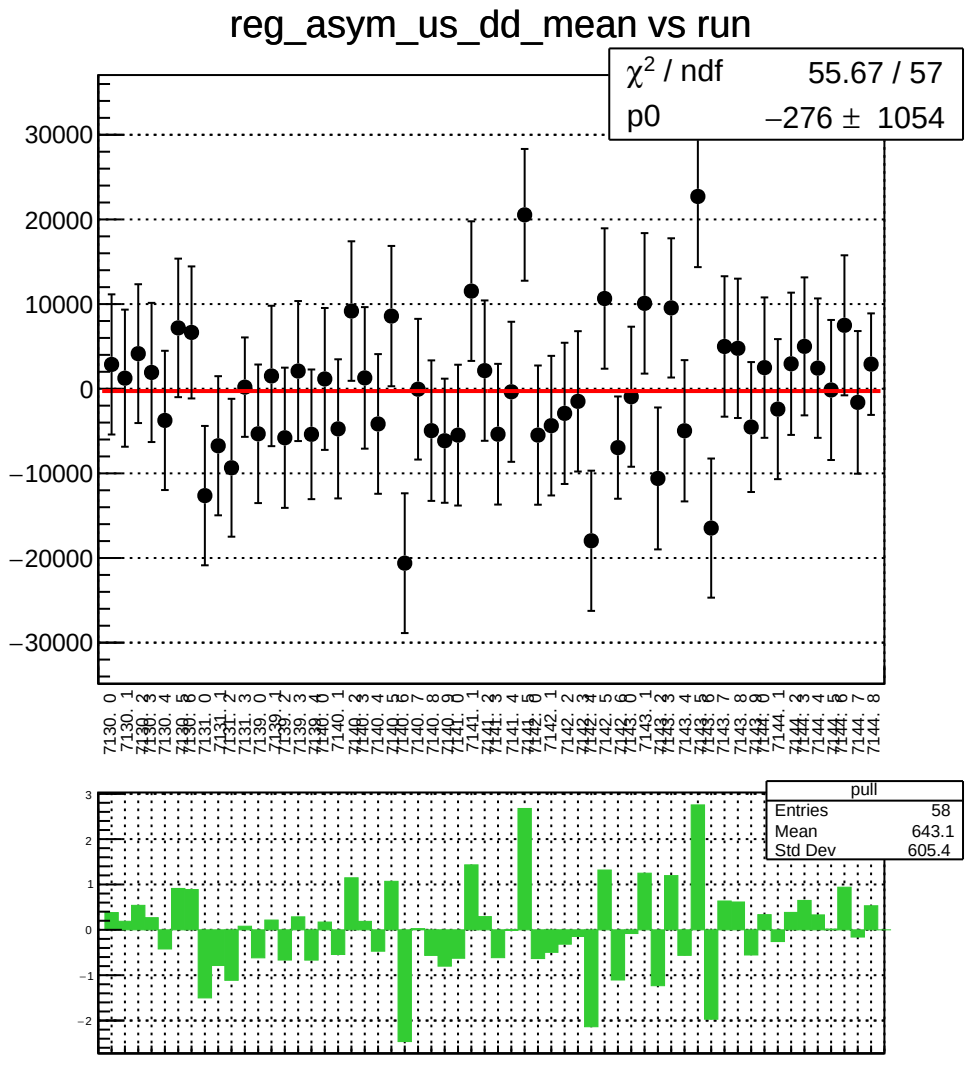

pull1D
Entries 58
Mean −0.01608
Std Dev 1.023
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

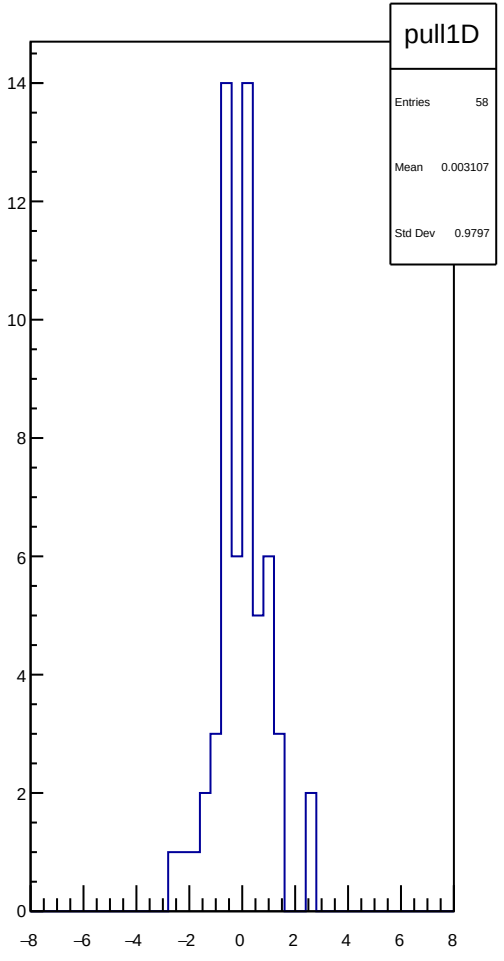

asym_us_avg_correction_rms vs run
χ² / ndf 6694 / 57
p0 1243 ± 1.184
1500
1400
1300
1200
1100

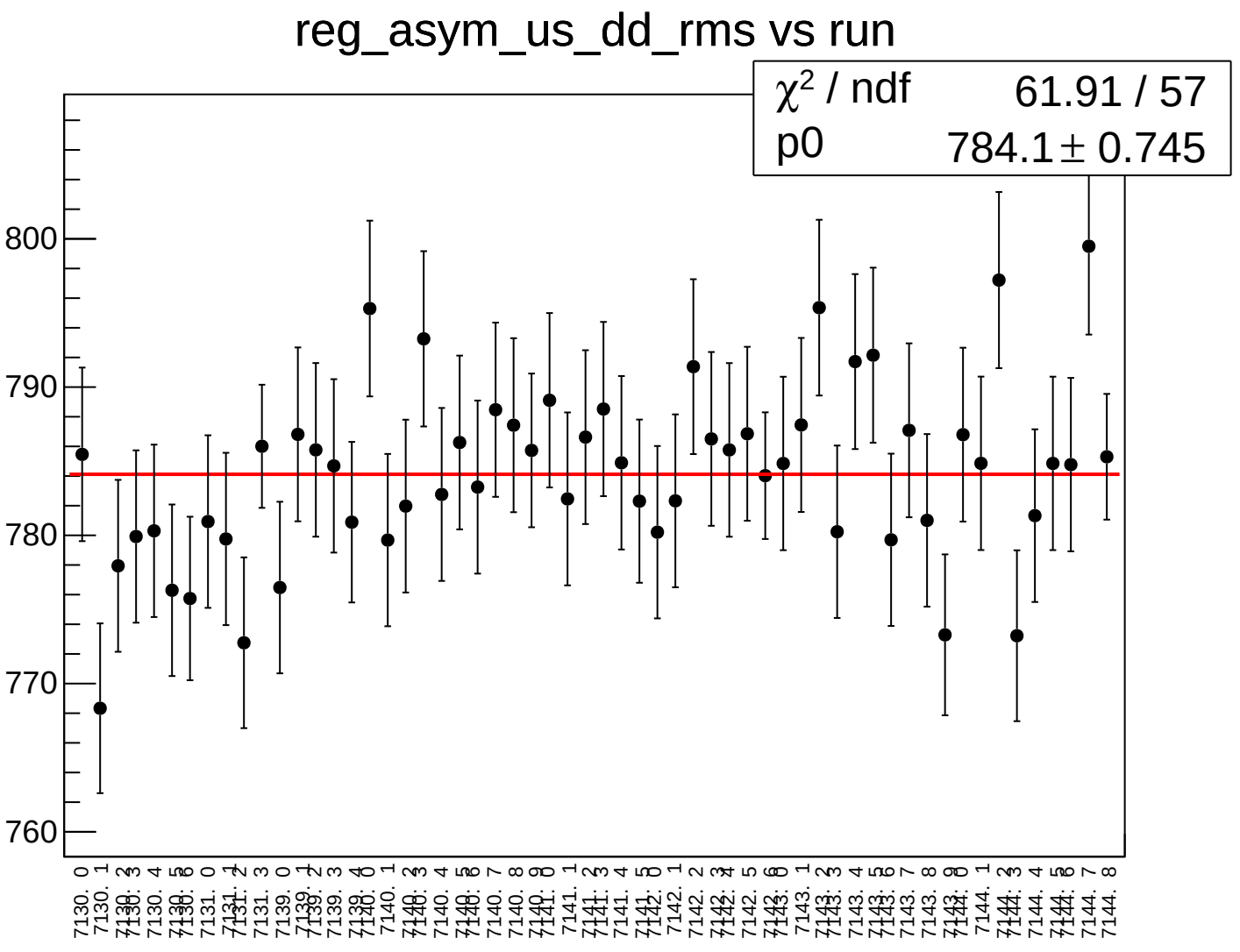

asym_us_avg_mean vs run
χ² / ndf 58.48 / 57
p0 −857.8 ± 1986
40000
20000
0
−20000
−40000
−60000
pull
Entries 58
Mean −1732
Std Dev 1763
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

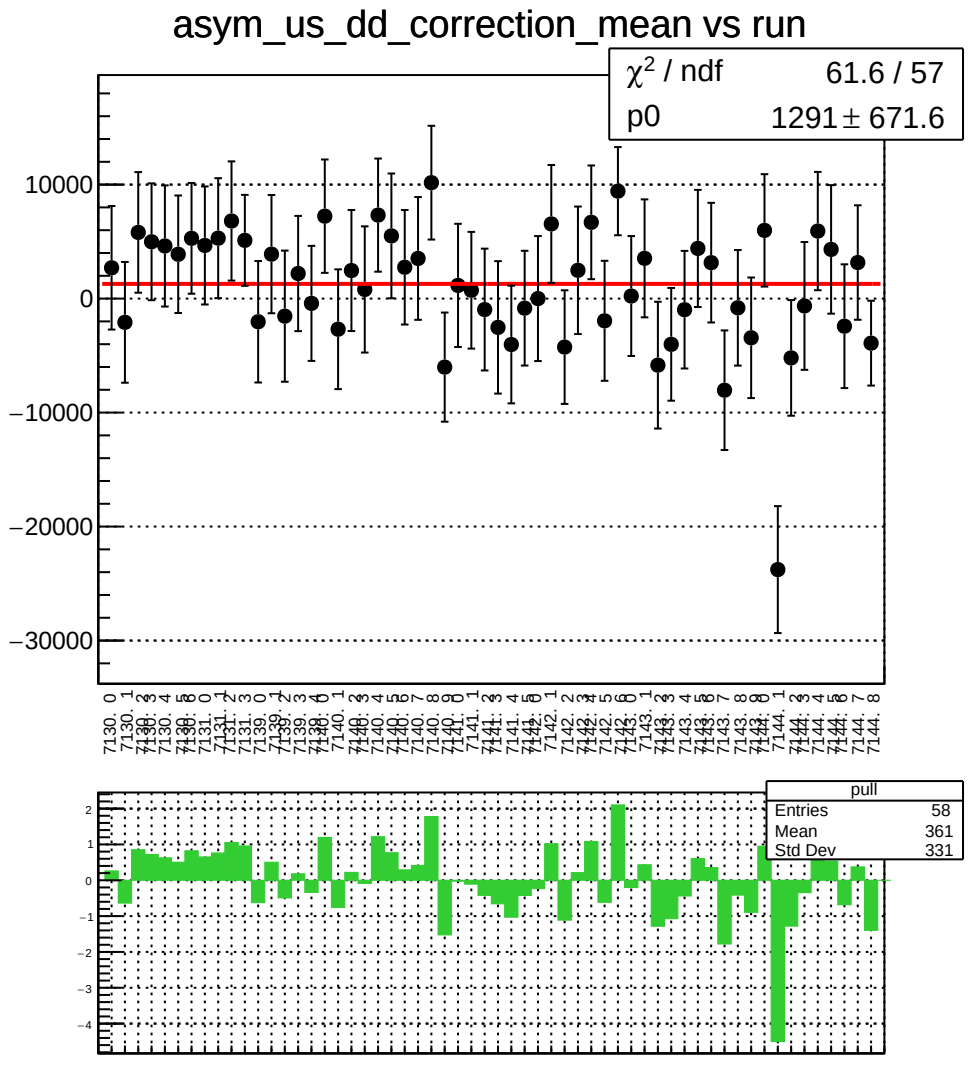

pull1D
Entries 58
Mean 0.002301
Std Dev 1.004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

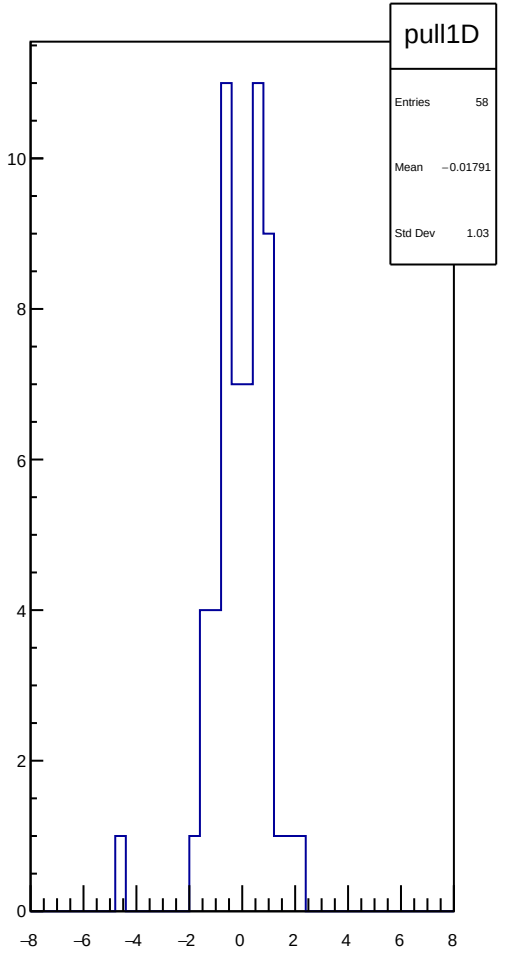

asym_us_avg_rms vs run
χ² / ndf 3596 / 57
p0 1476 ± 1.405
1750
1700
1650
1600
1550
1500
1450
1400
1350

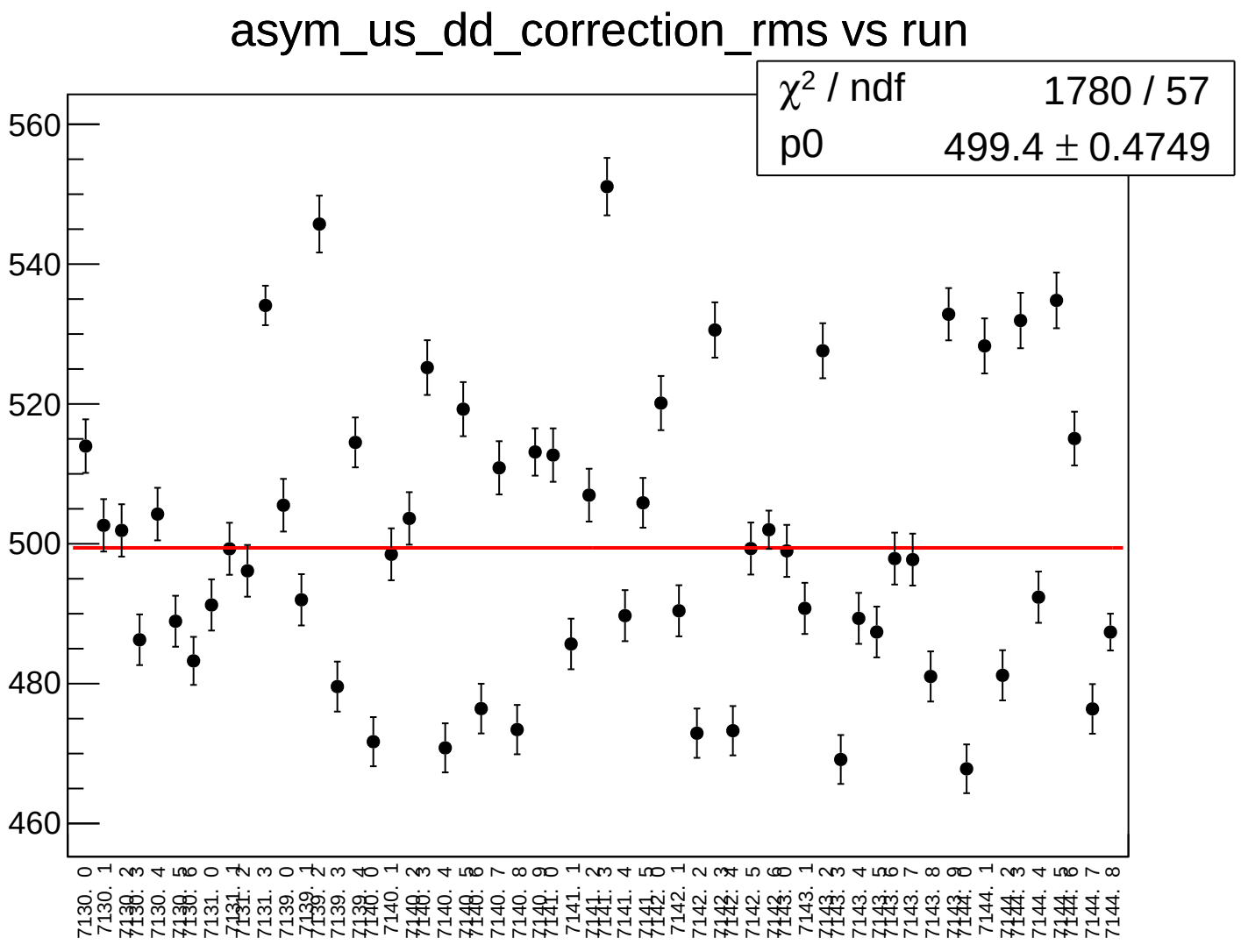

reg_asym_us_dd_mean vs run
χ² / ndf 55.67 / 57
p0 −276 ± 1054
pull
Entries 58
Mean 643.1
Std Dev 605.4

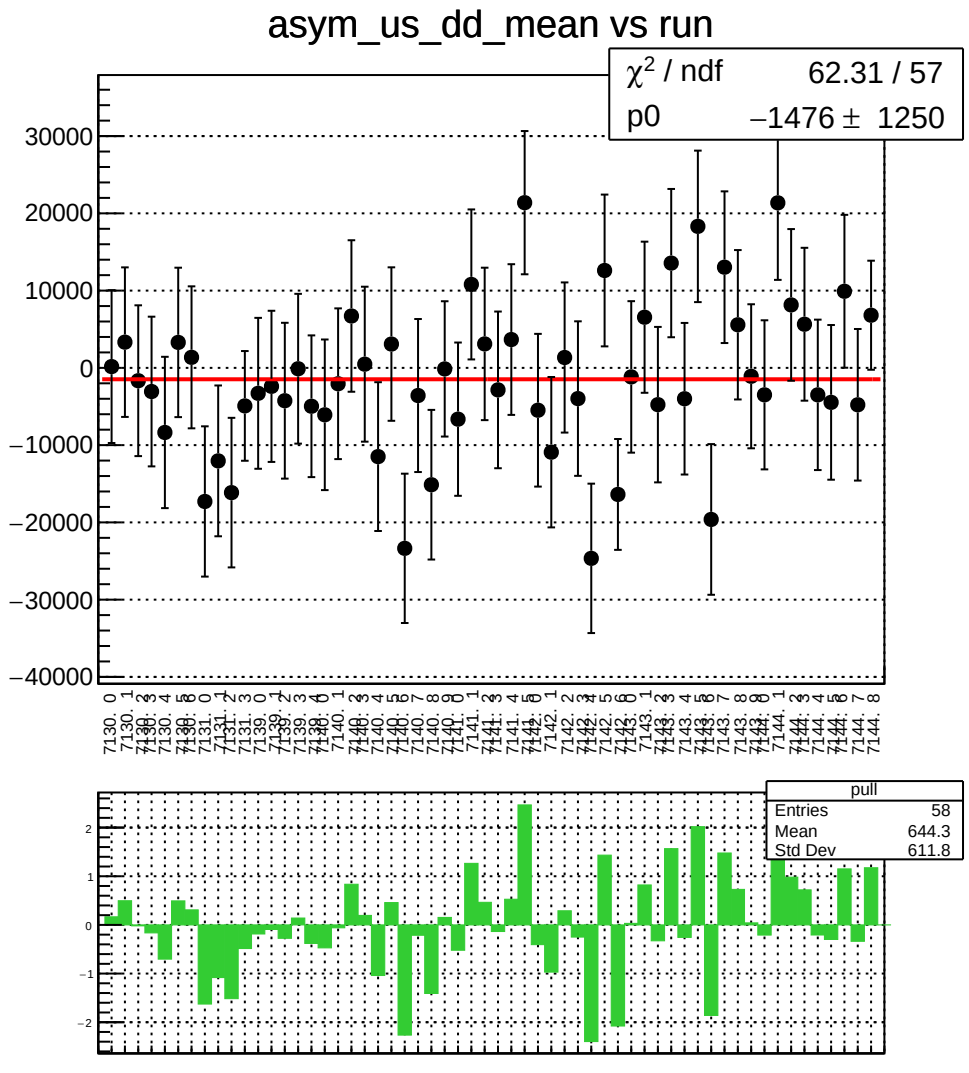

pull1D
Entries 58
Mean 0.003107
Std Dev 0.9797

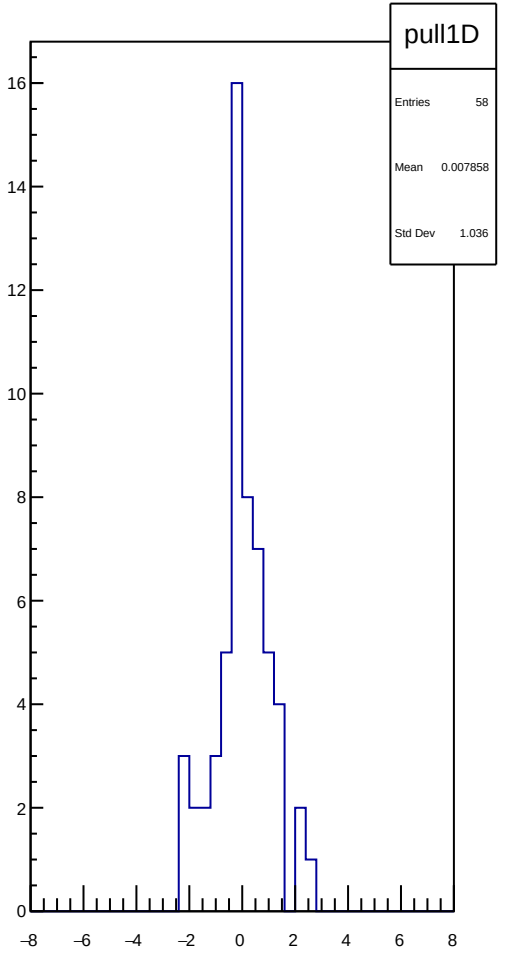

reg_asym_us_dd_rms vs run
χ² / ndf 61.91 / 57
p0 784.1 ± 0.745
800
790
780
770
760

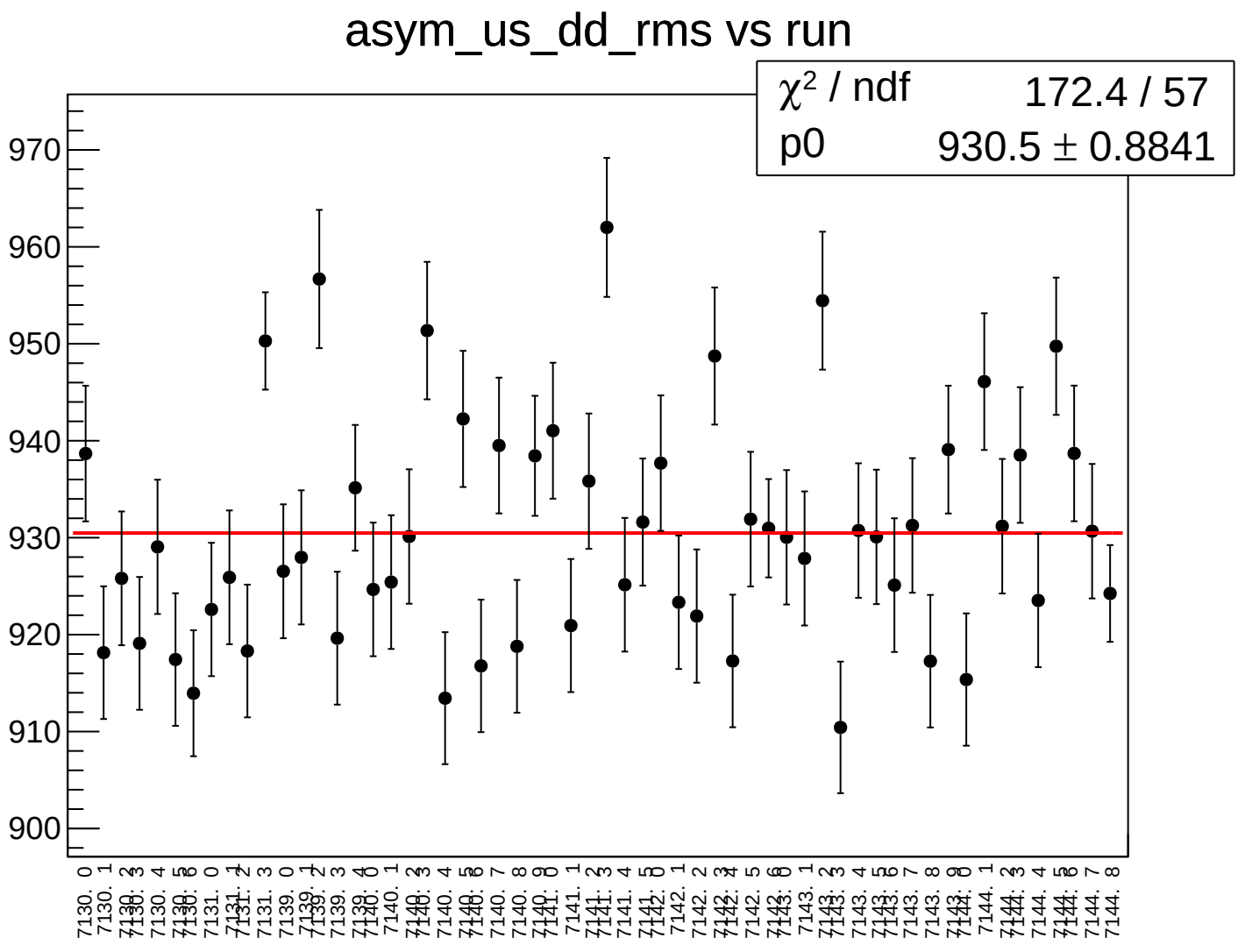

asym_us_dd_correction_mean vs run
χ² / ndf 61.6 / 57
p0 1291 ± 671.6
10000
0
−10000
−20000
−30000
pull
Entries 58
Mean 361
Std Dev 331
2
1
0
−1
−2
−3
−4

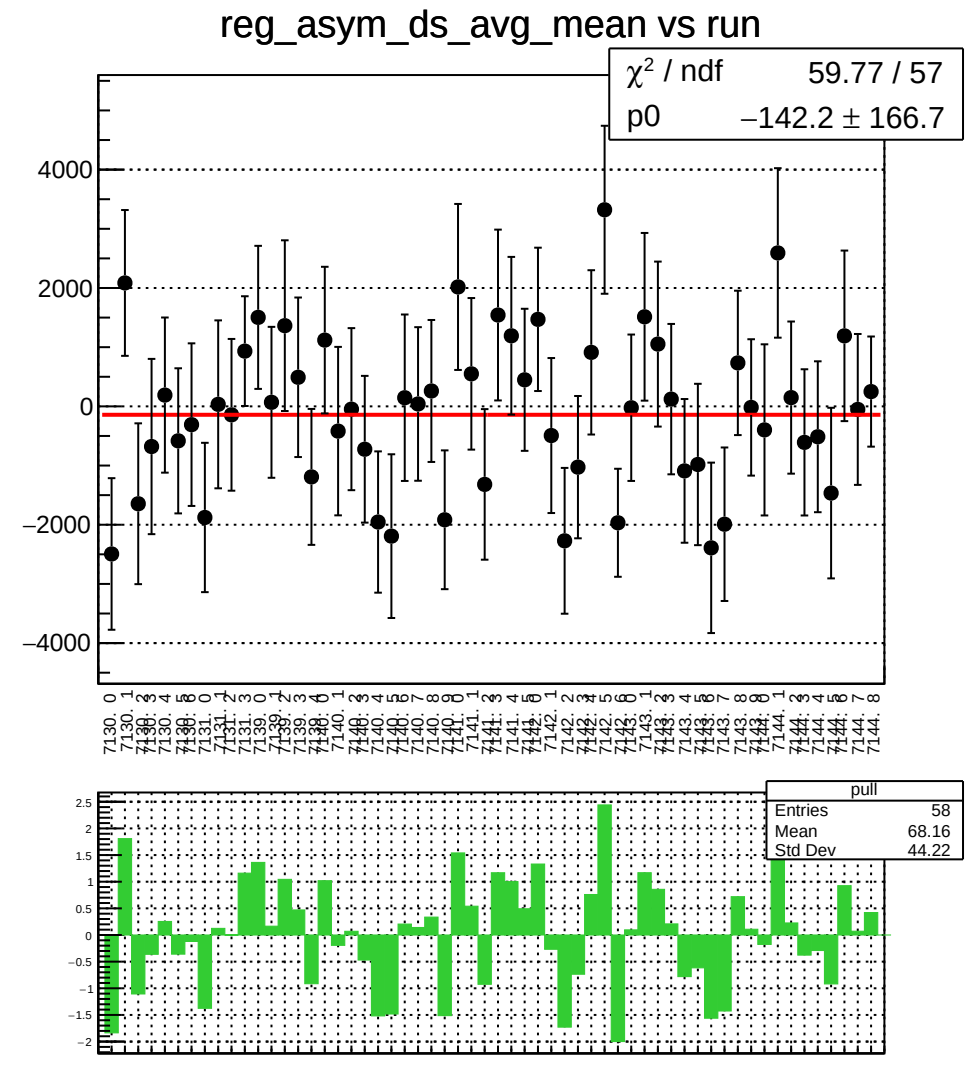

pull1D
Entries 58
Mean −0.01791
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

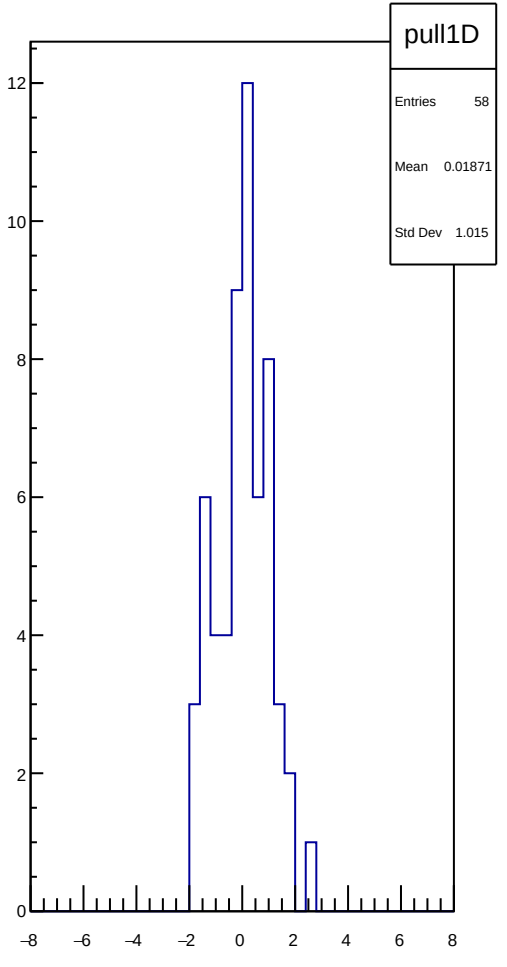

asym_us_dd_correction_rms vs run
χ² / ndf 1780 / 57
p0 499.4 ± 0.4749
560
540
520
500
480
460

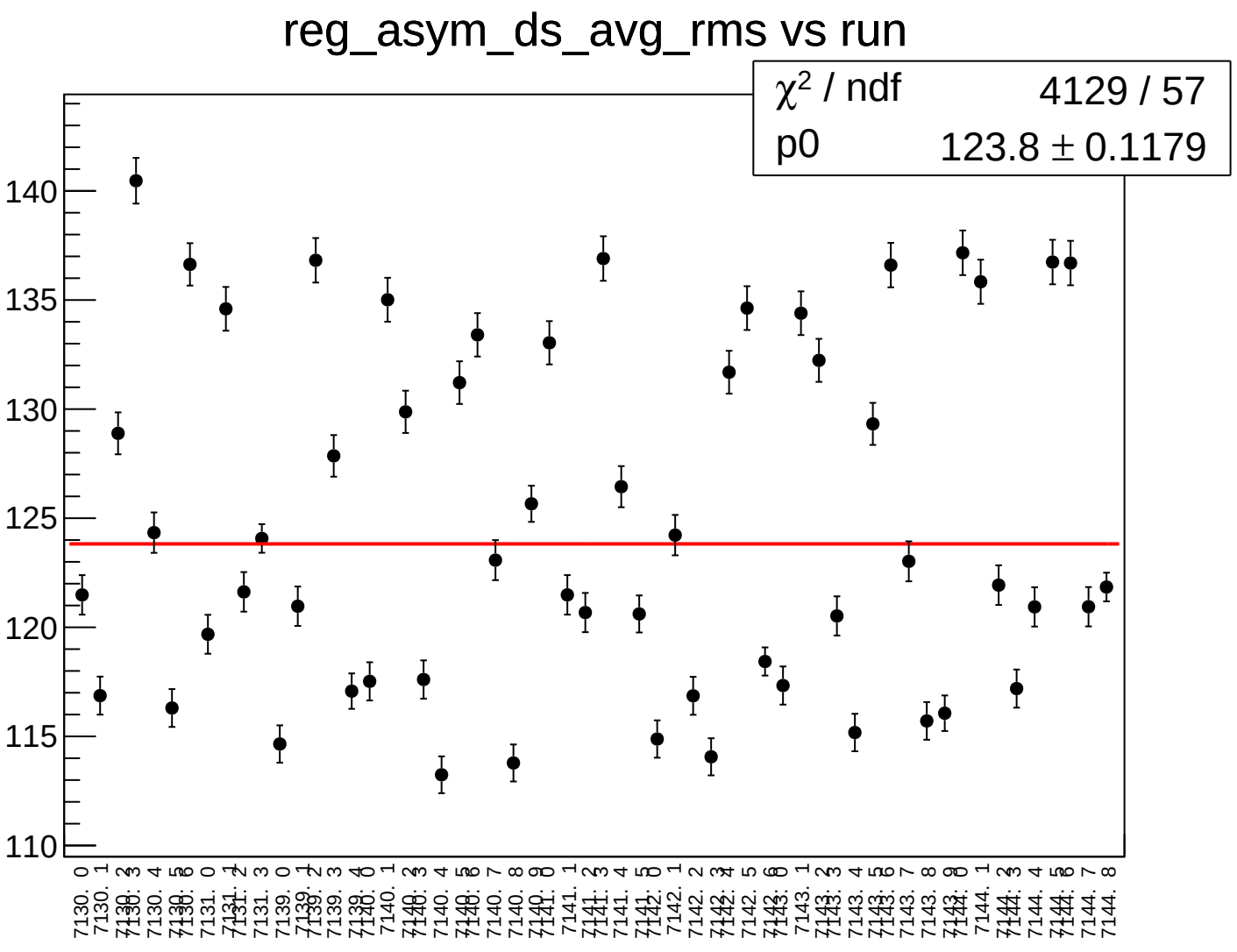

asym_us_dd_mean vs run
χ^2 / ndf 62.31 / 57
p0 −1476 ± 1250
pull
Entries 58
Mean 644.3
Std Dev 611.8

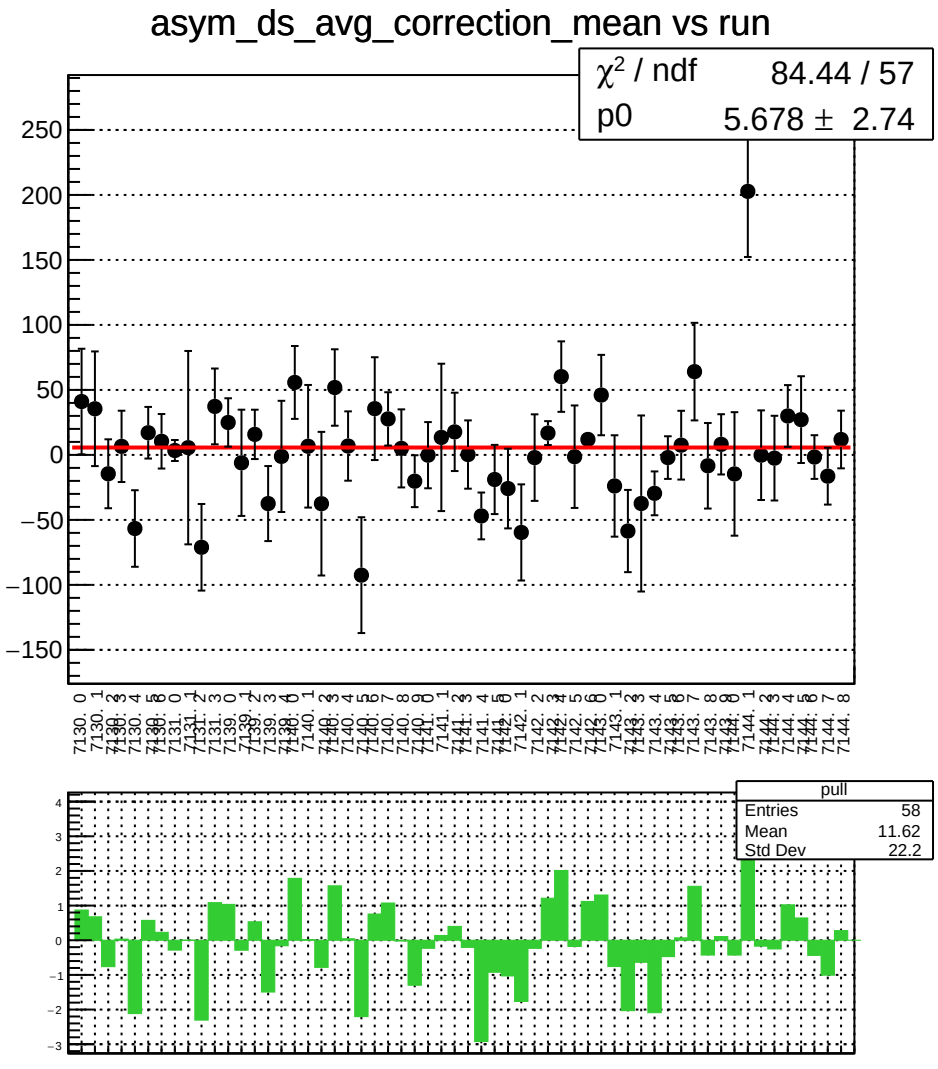

pull1D
Entries 58
Mean 0.007858
Std Dev 1.036

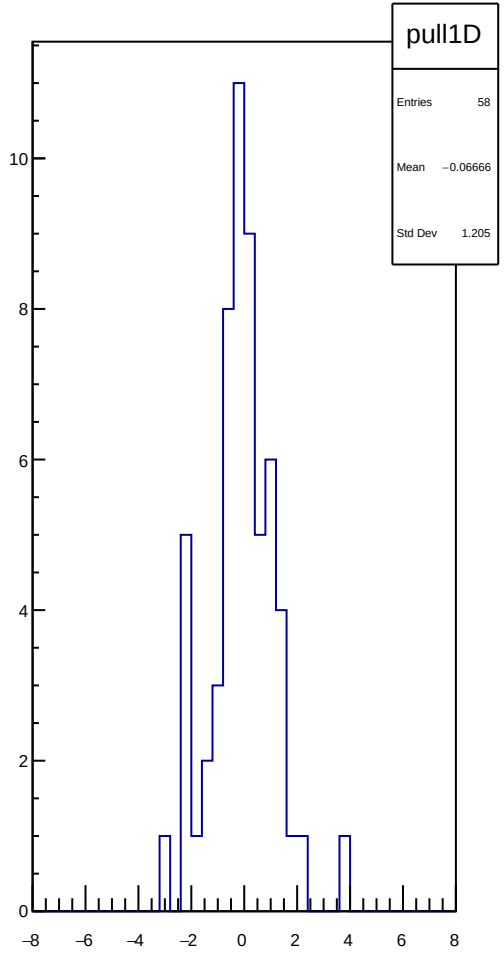

asym_us_dd_rms vs run
χ^2 / ndf 172.4 / 57
p0 930.5 ± 0.8841
970
960
950
940
930
920
910
900

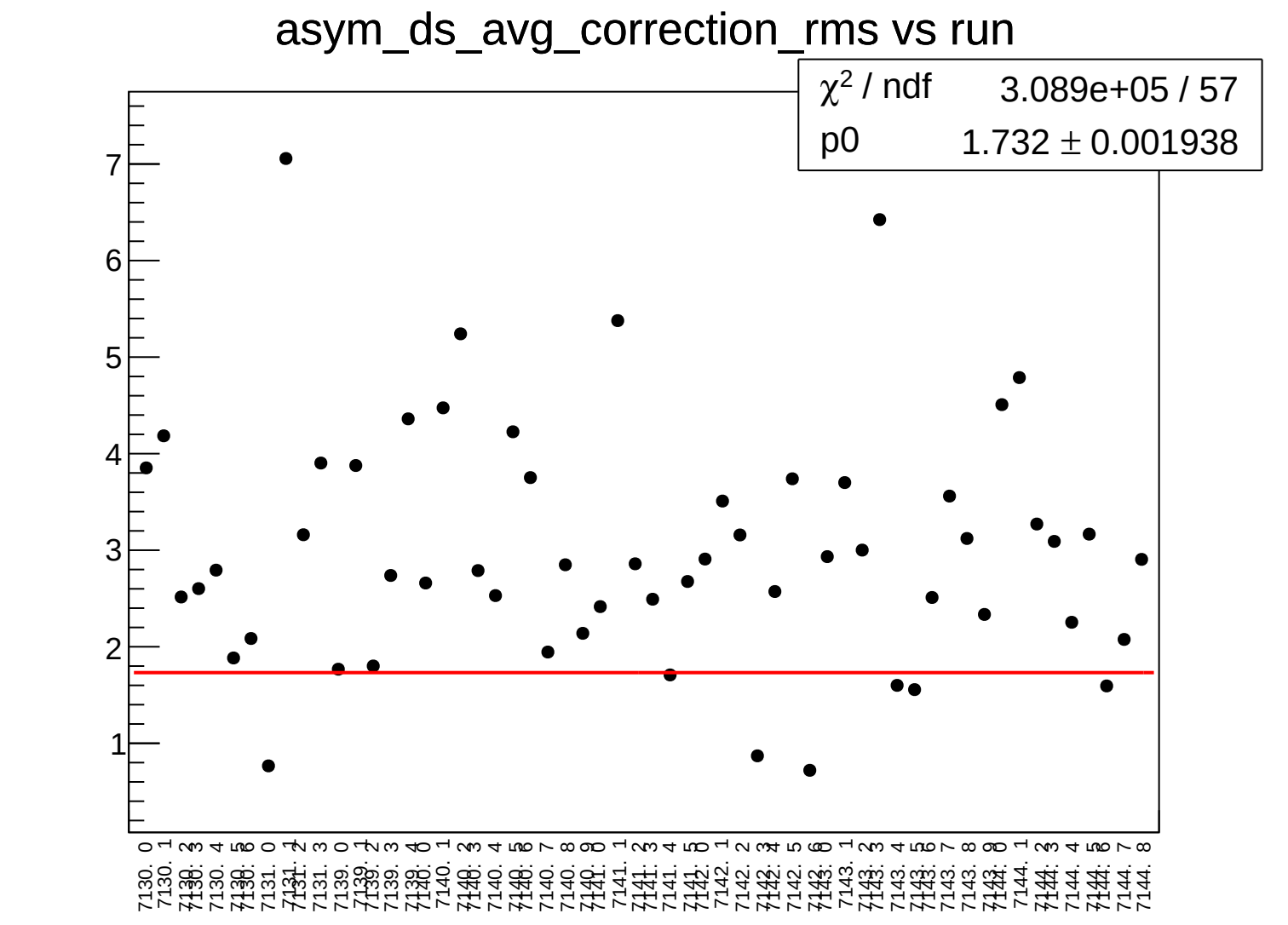

reg_asym_ds_avg_mean vs run
χ² / ndf 59.77 / 57
p0 −142.2 ± 166.7
4000
2000
0
−2000
−4000
pull
Entries 58
Mean 68.16
Std Dev 44.22
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

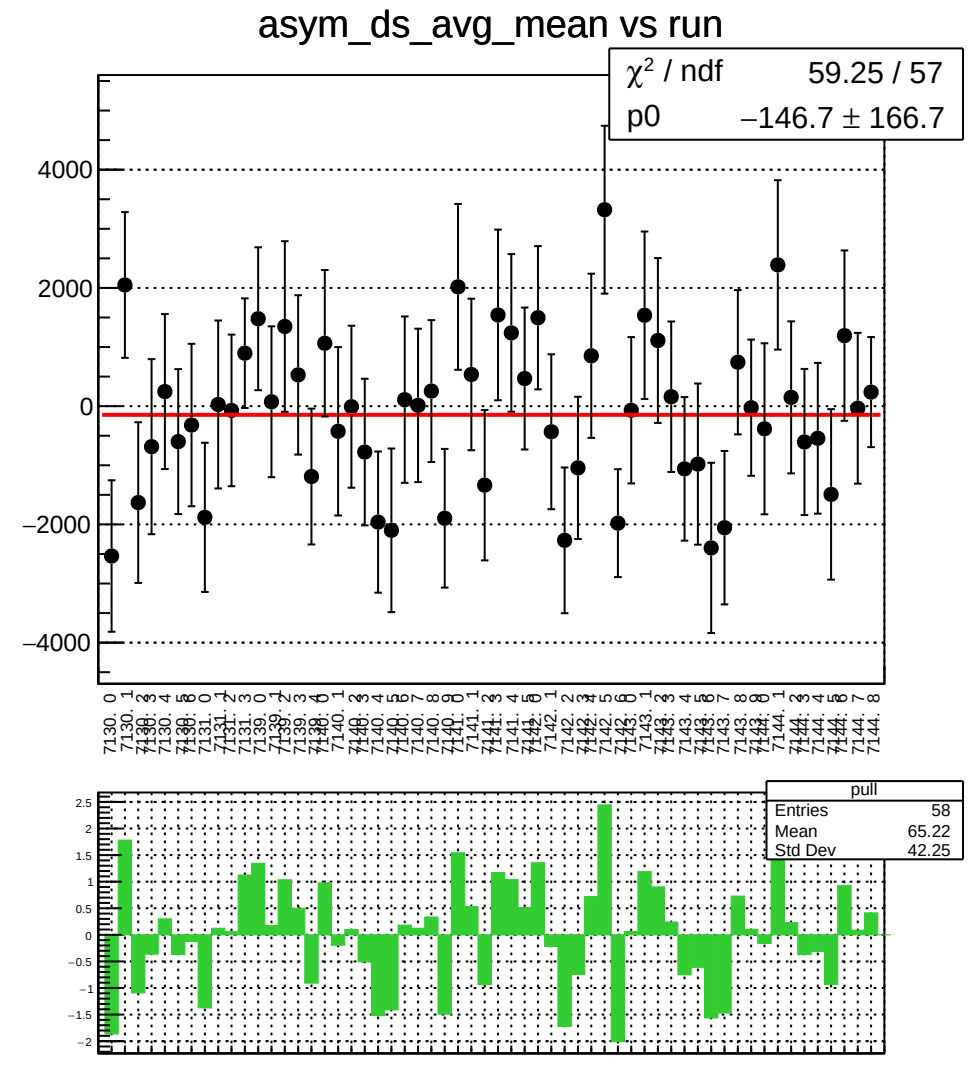

pull1D
Entries 58
Mean 0.01871
Std Dev 1.015
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

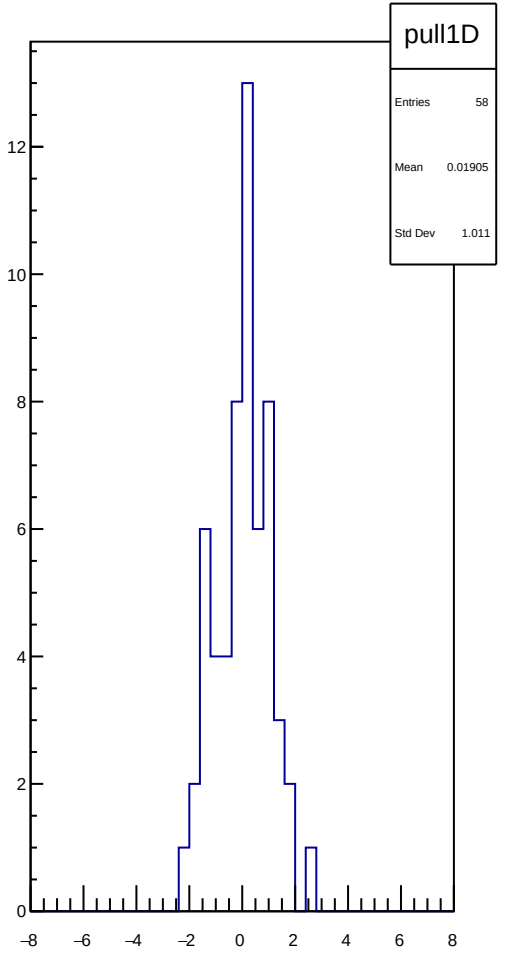

reg_asym_ds_avg_rms vs run
χ² / ndf 4129 / 57
p0 123.8 ± 0.1179
140
135
130
125
120
115
110

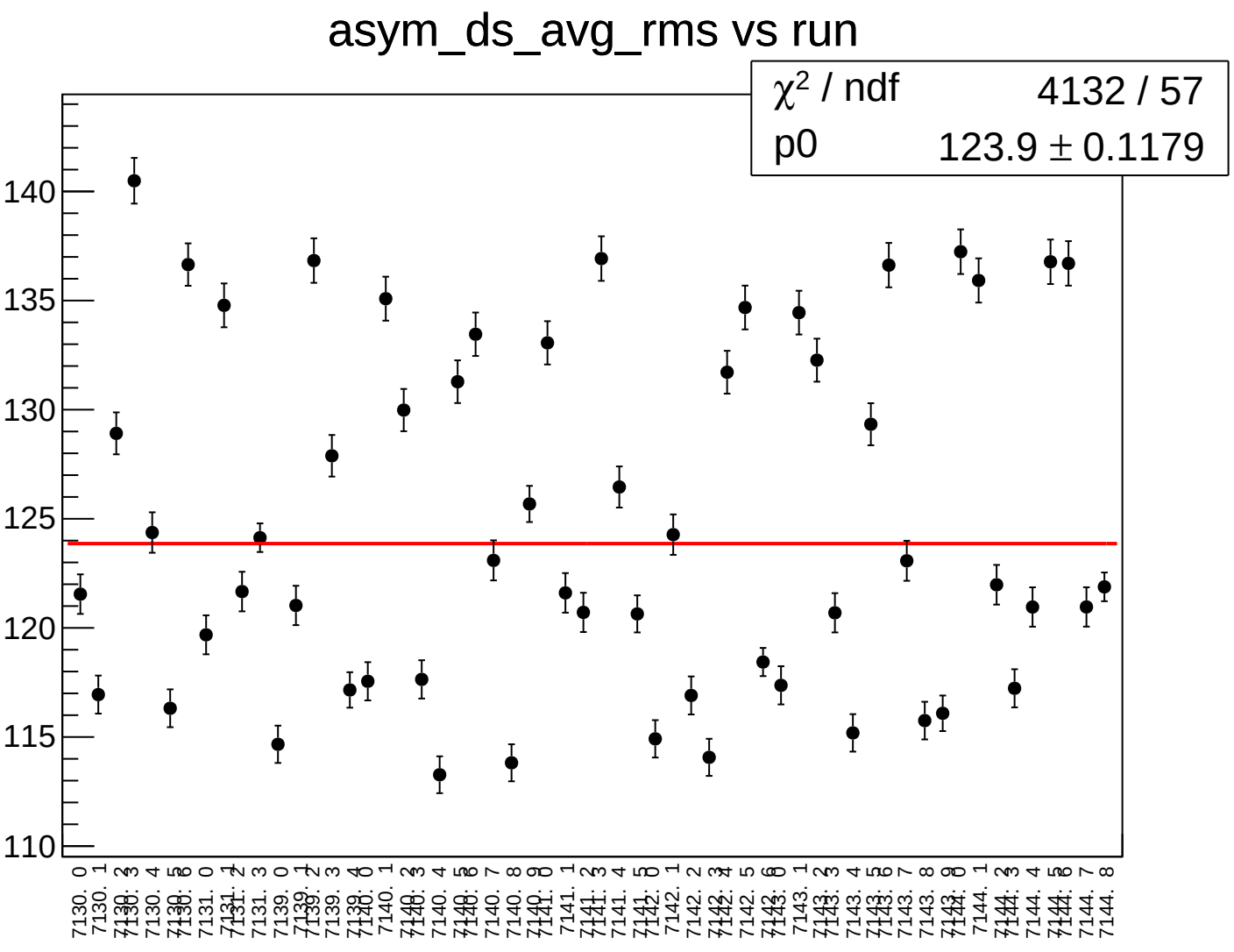

asym_ds_avg_correction_mean vs run
χ² / ndf 84.44 / 57
p0 5.678 ± 2.74
pull
Entries 58
Mean 11.62
Std Dev 22.2

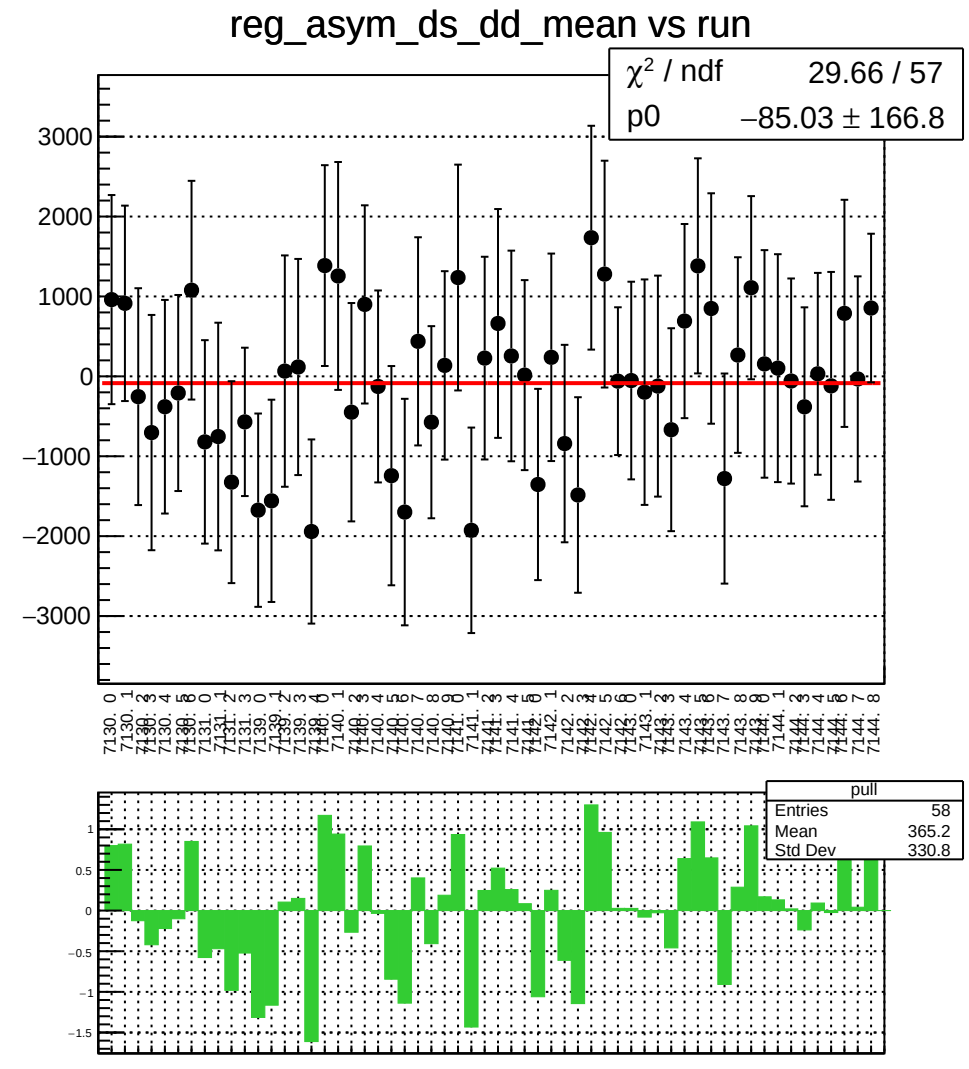

pull1D
Entries 58
Mean −0.06666
Std Dev 1.205

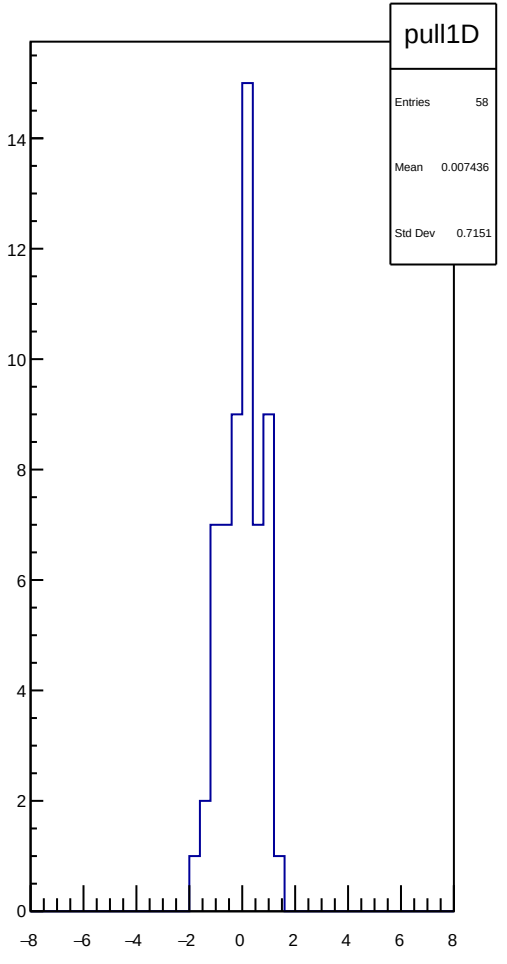

asym_ds_avg_correction_rms vs run
χ^2 / ndf 3.089e+05 / 57
p0 1.732 ± 0.001938
7
6
5
4
3
2
1

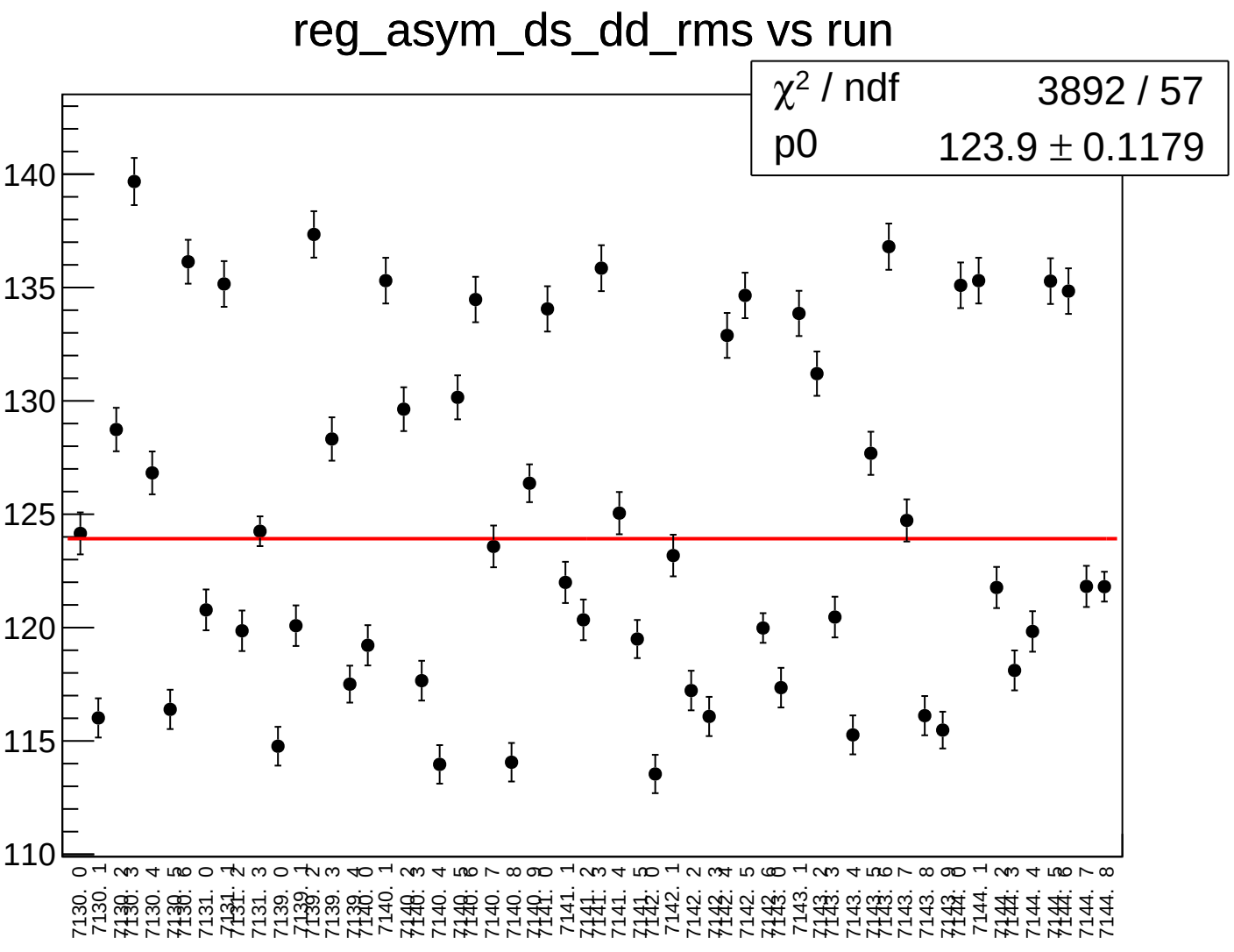

asym_ds_avg_mean vs run
χ² / ndf 59.25 / 57
p0 −146.7 ± 166.7
4000
2000
0
−2000
−4000
pull
Entries 58
Mean 65.22
Std Dev 42.25
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

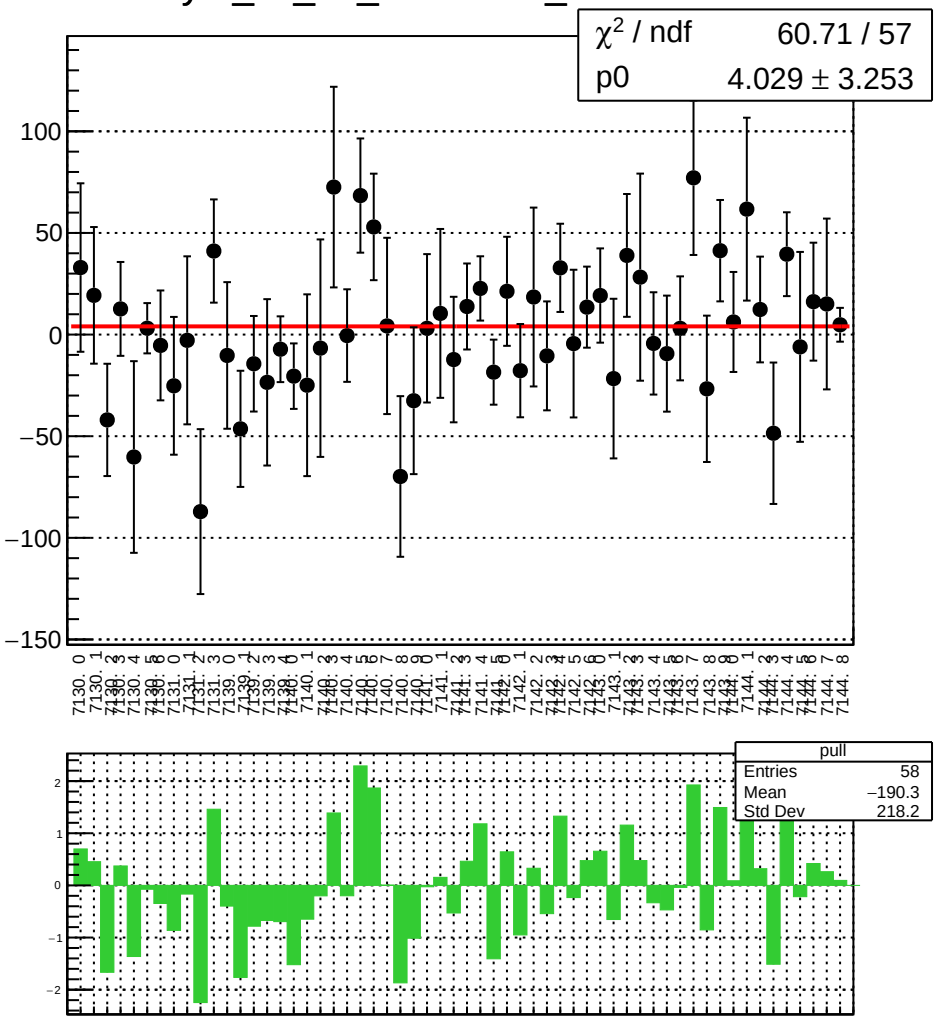

pull1D
Entries 58
Mean 0.01905
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

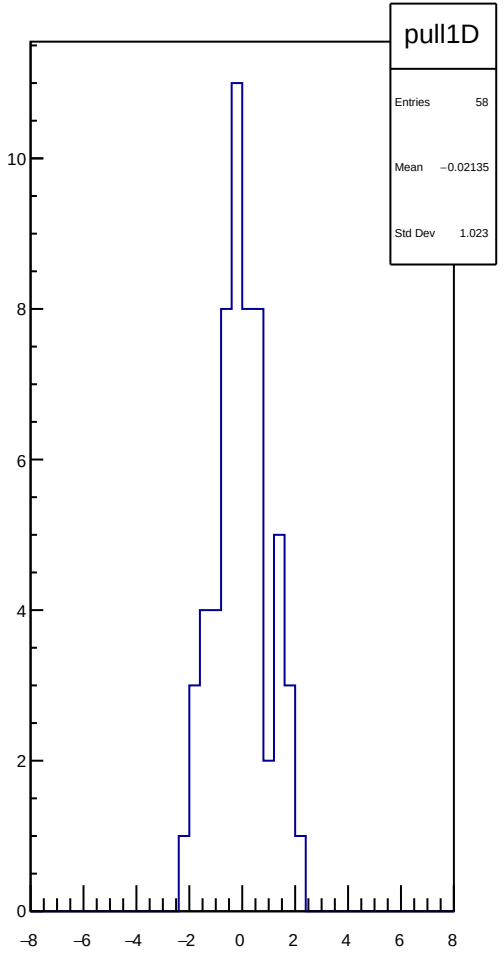

asym_ds_avg_rms vs run
χ² / ndf 4132 / 57
p0 123.9 ± 0.1179
140
135
130
125
120
115
110

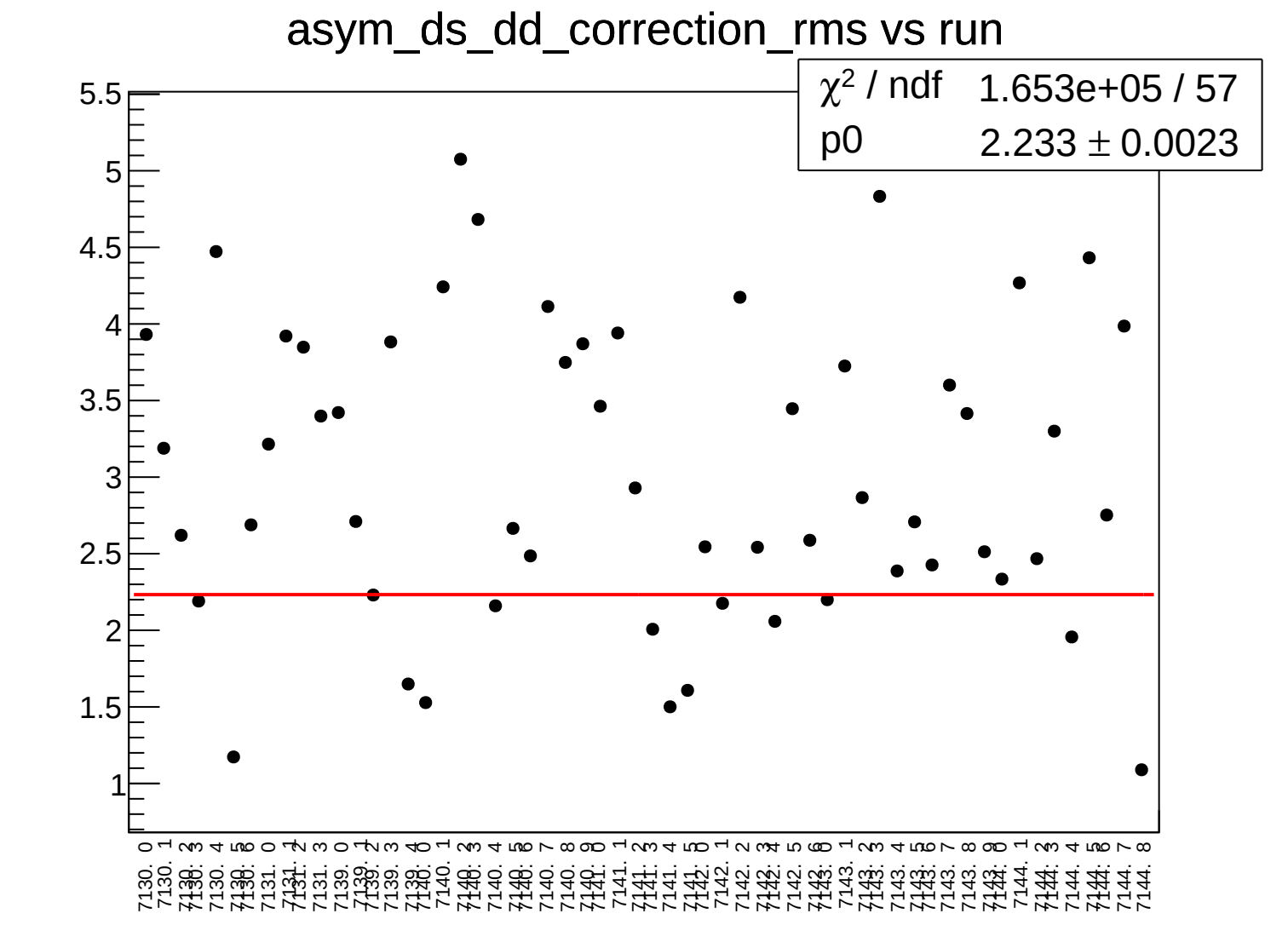

reg_asym_ds_dd_mean vs run
χ² / ndf 29.66 / 57
p0 −85.03 ± 166.8
pull
Entries 58
Mean 365.2
Std Dev 330.8

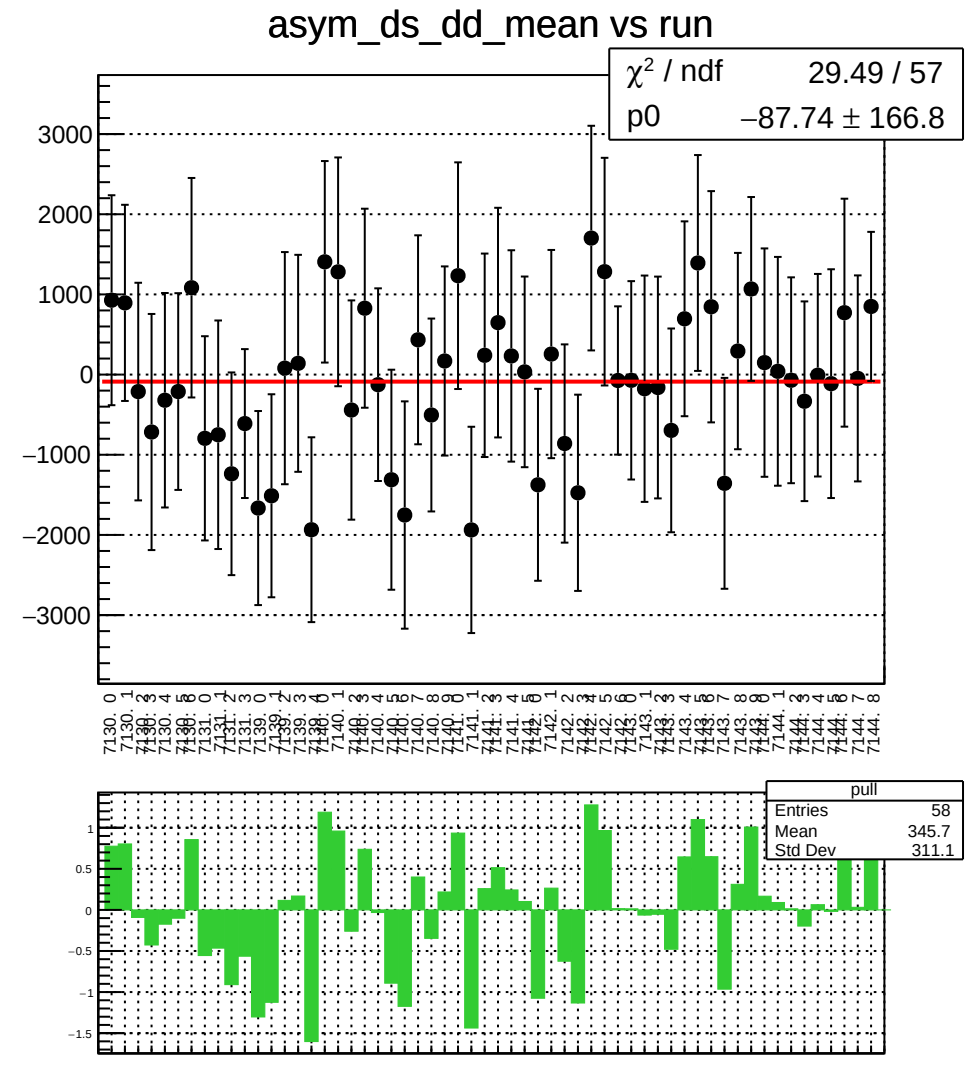

pull1D
Entries 58
Mean 0.007436
Std Dev 0.7151

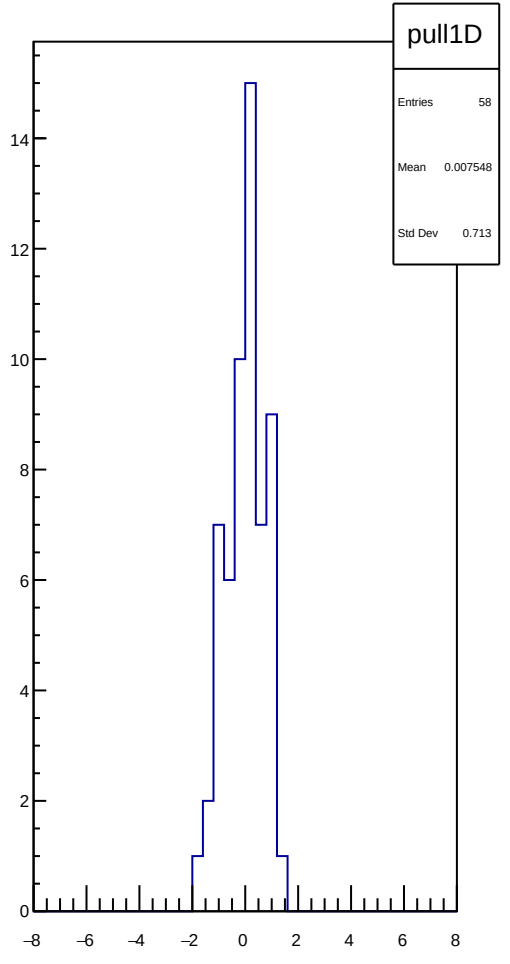

reg_asym_ds_dd_rms vs run
χ² / ndf 3892 / 57
p0 123.9 ± 0.1179
140
135
130
125
120
115
110

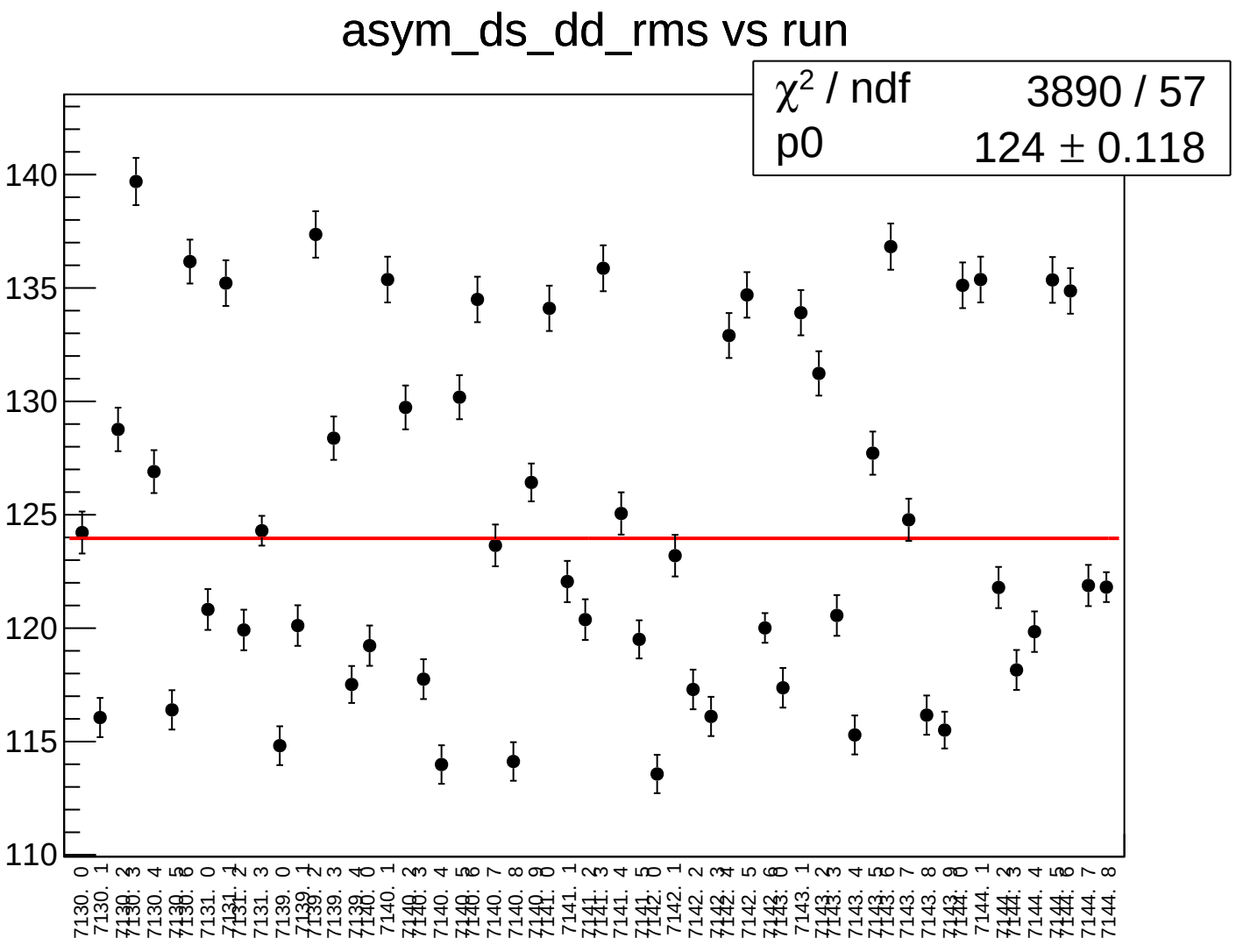

asym_ds_dd_correction_mean vs run
χ² / ndf 60.71 / 57
p0 4.029 ± 3.253
pull
Entries 58
Mean −190.3
Std Dev 218.2

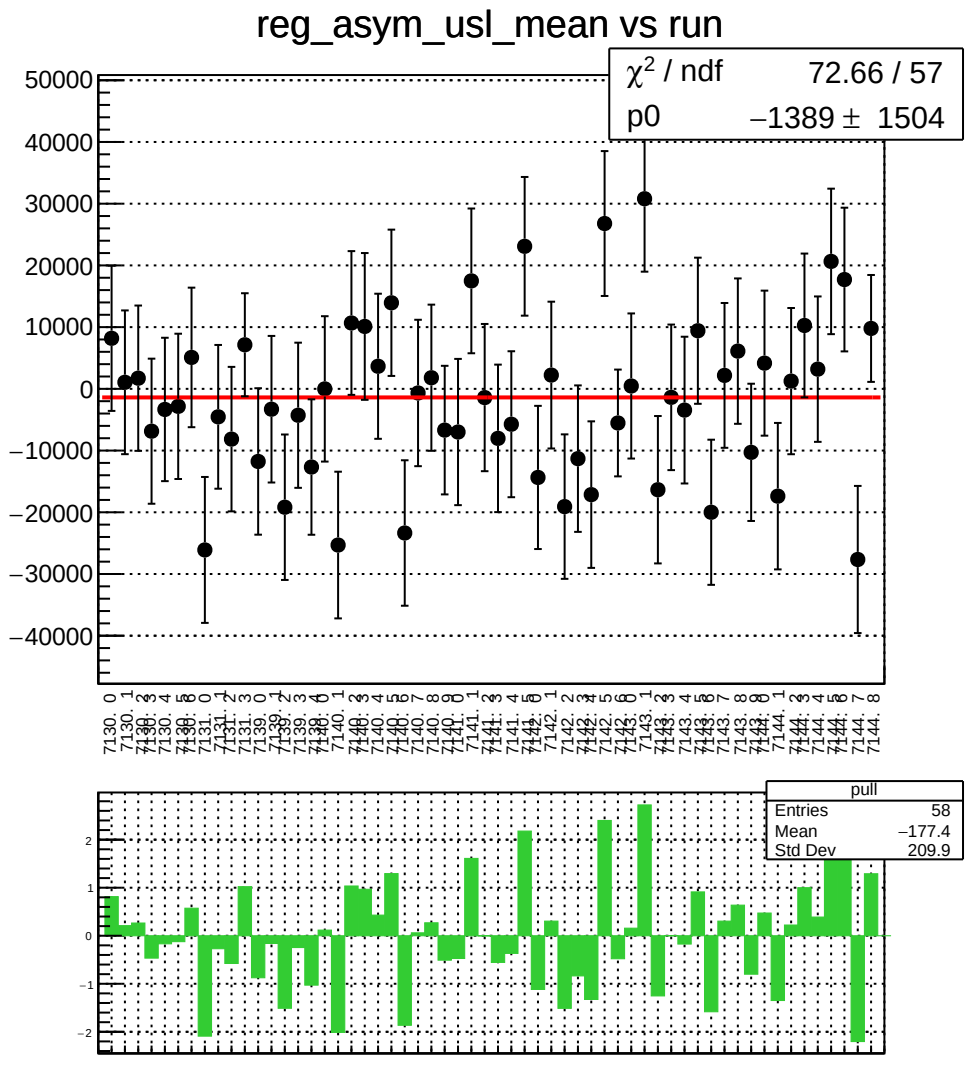

pull1D
Entries 58
Mean −0.02135
Std Dev 1.023

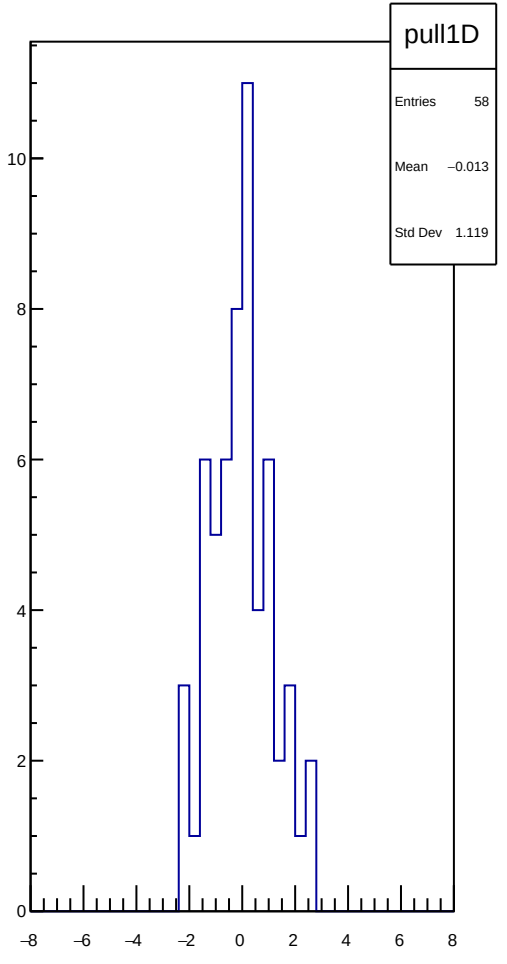

asym_ds_dd_correction_rms vs run
χ² / ndf 1.653e+05 / 57
p0 2.233 ± 0.0023
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1

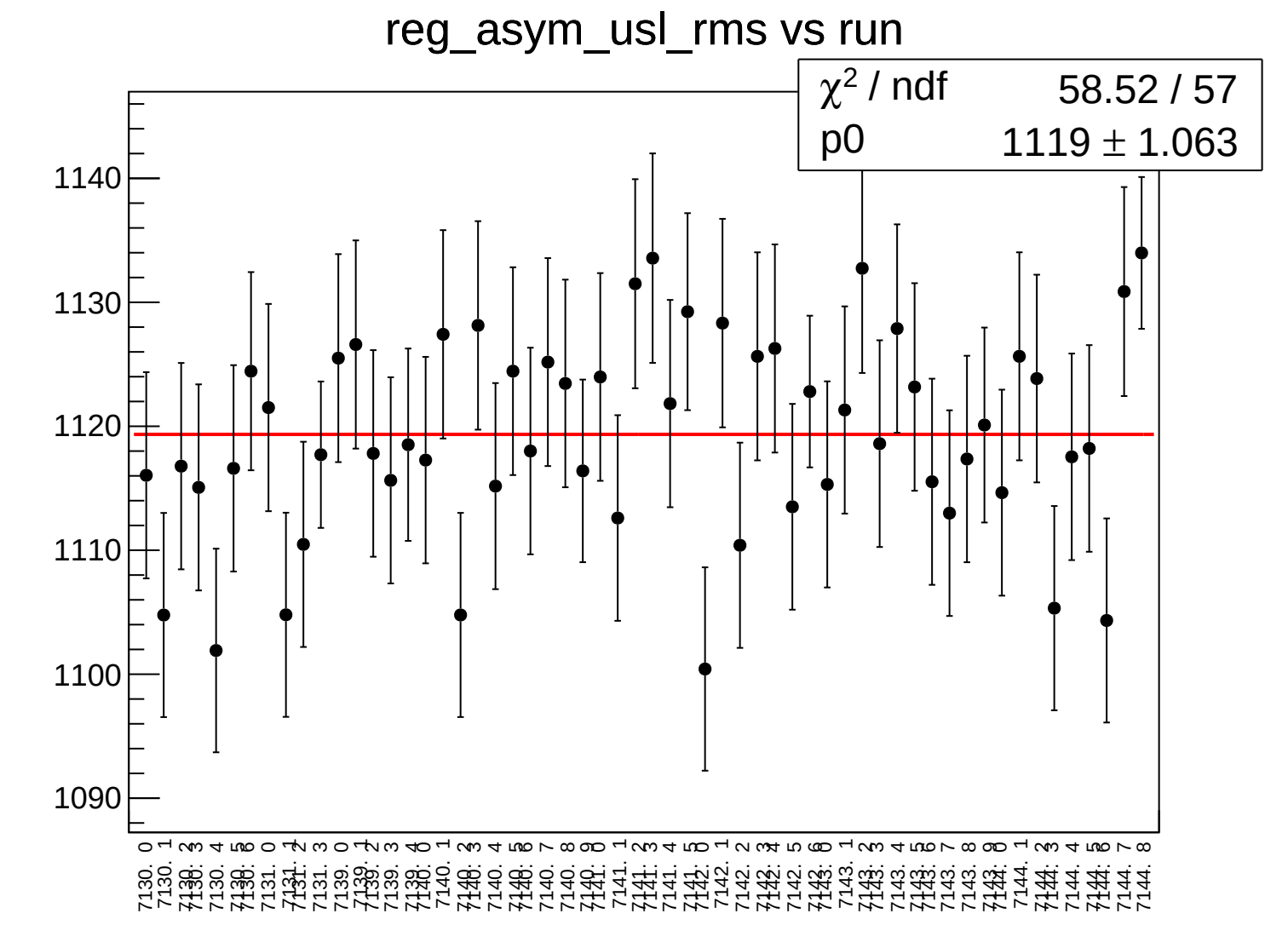

asym_ds_dd_mean vs run
χ² / ndf 29.49 / 57
p0 −87.74 ± 166.8
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 58
Mean 345.7
Std Dev 311.1
1
0.5
0
−0.5
−1
−1.5

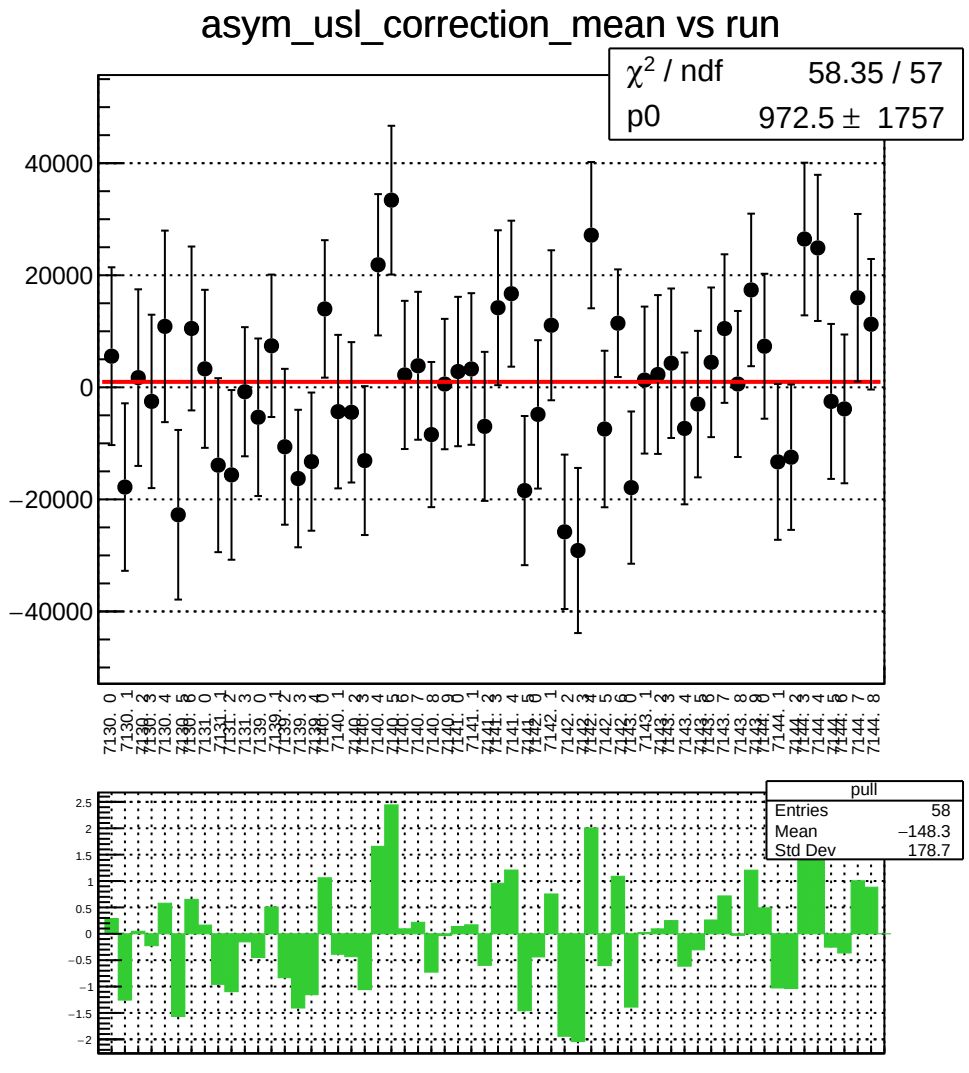

pull1D
Entries 58
Mean 0.007548
Std Dev 0.713
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

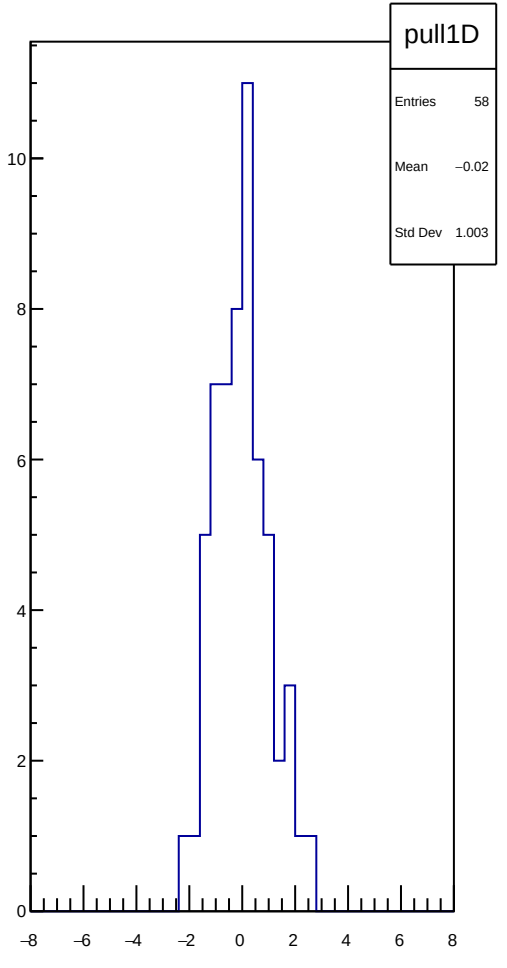

asym_ds_dd_rms vs run
χ² / ndf 3890 / 57
p0 124 ± 0.118
140
135
130
125
120
115
110

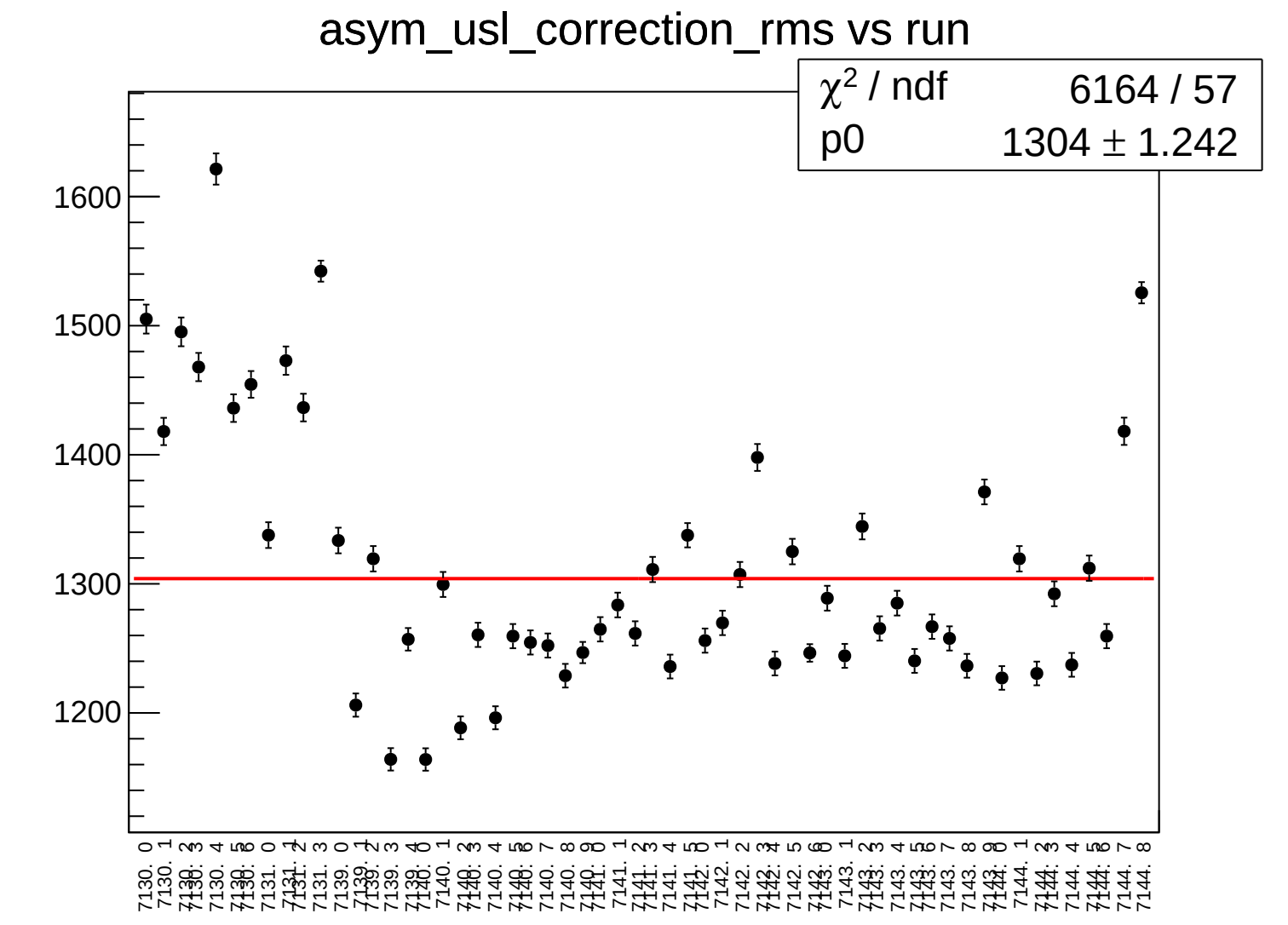

reg_asym_usl_mean vs run
χ² / ndf 72.66 / 57
p0 −1389 ± 1504
pull
Entries 58
Mean −177.4
Std Dev 209.9

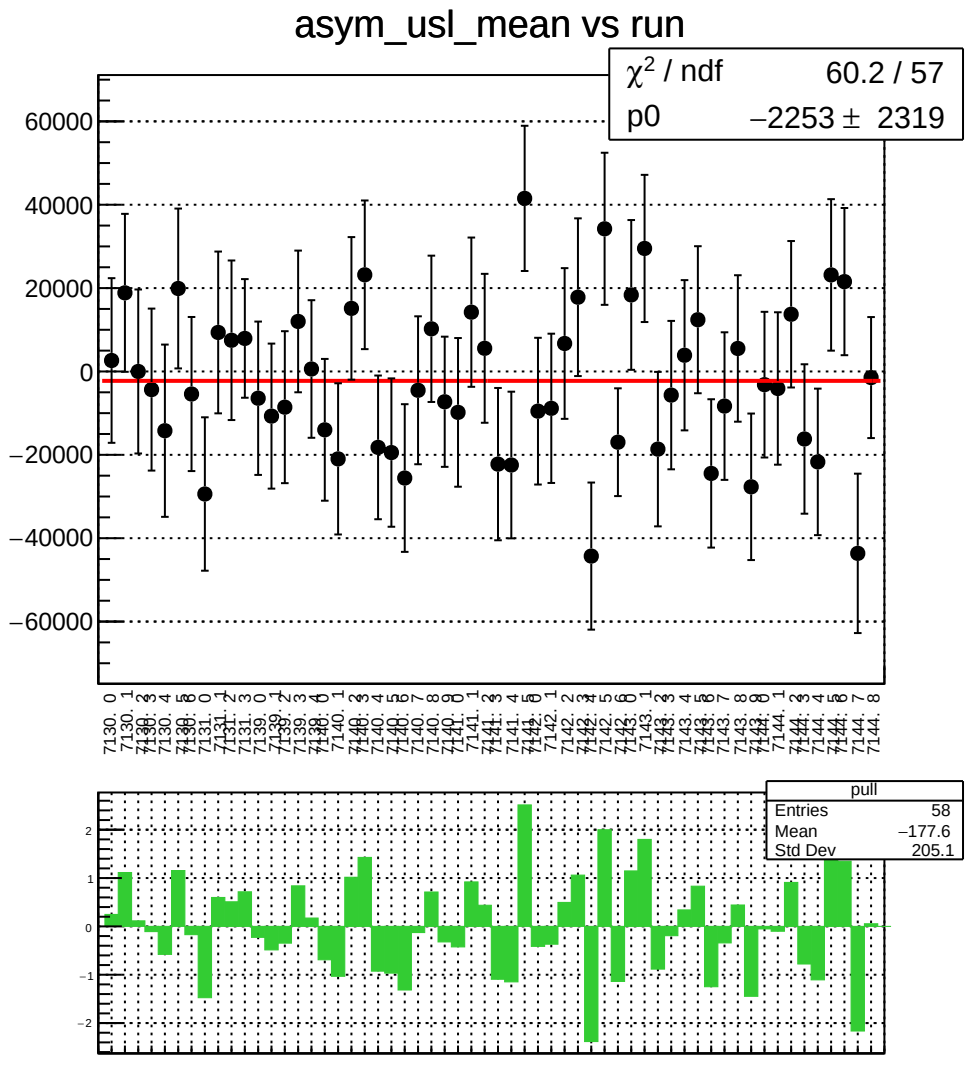

pull1D
Entries 58
Mean −0.013
Std Dev 1.119

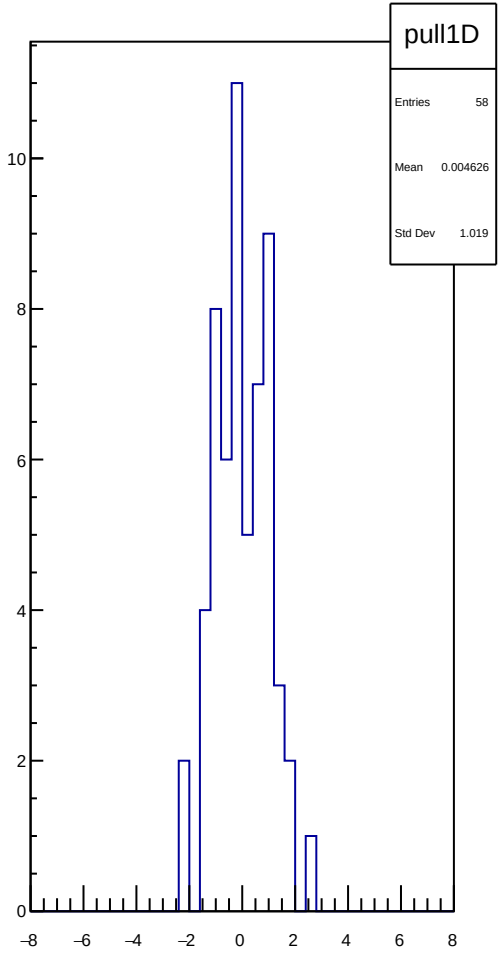

reg_asym_usl_rms vs run
χ² / ndf 58.52 / 57
p0 1119 ± 1.063
1140
1130
1120
1110
1100
1090
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

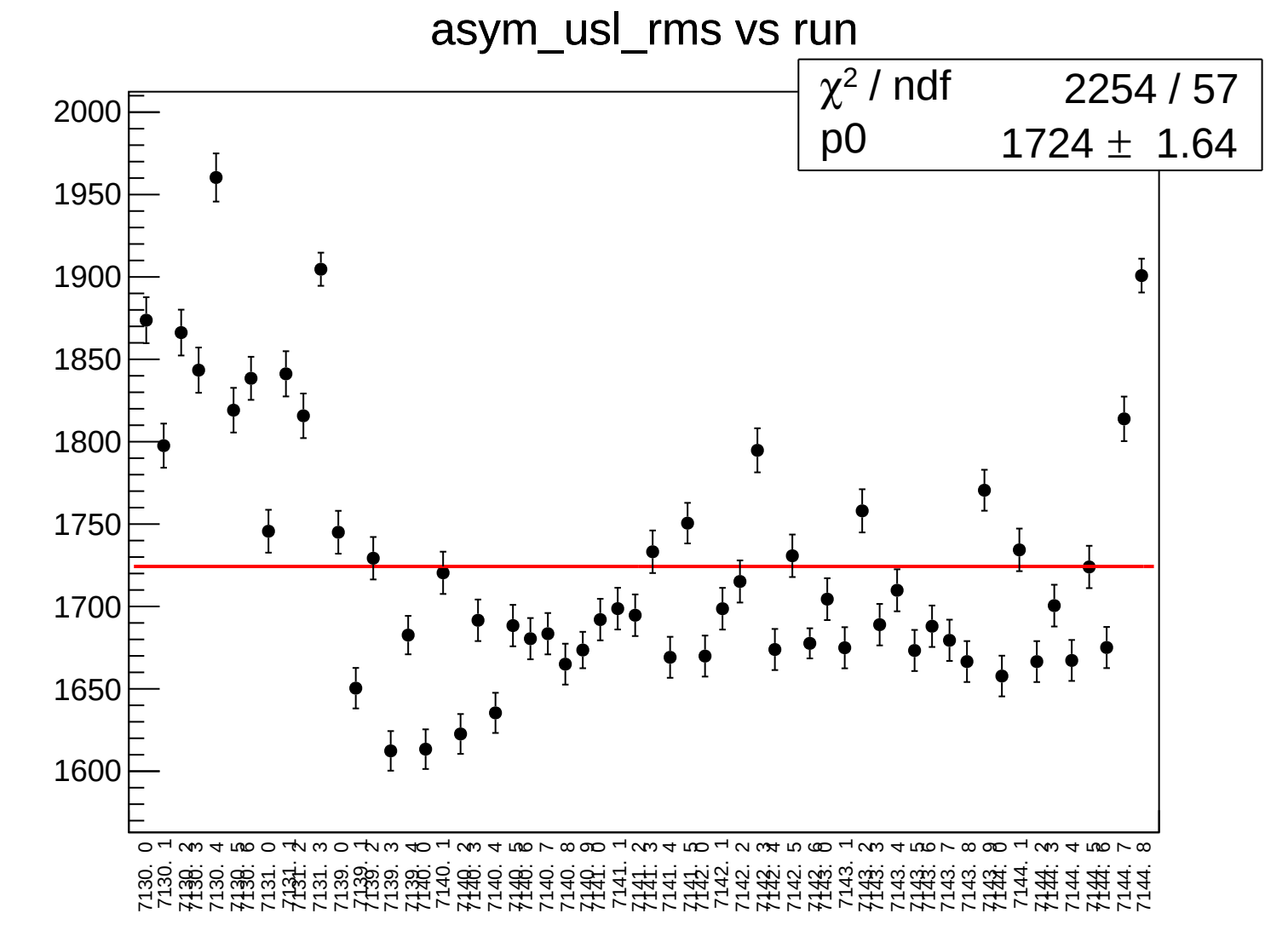

asym_usl_correction_mean vs run
χ² / ndf 58.35 / 57
p0 972.5 ± 1757
40000
20000
0
−20000
−40000
pull
Entries 58
Mean −148.3
Std Dev 178.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

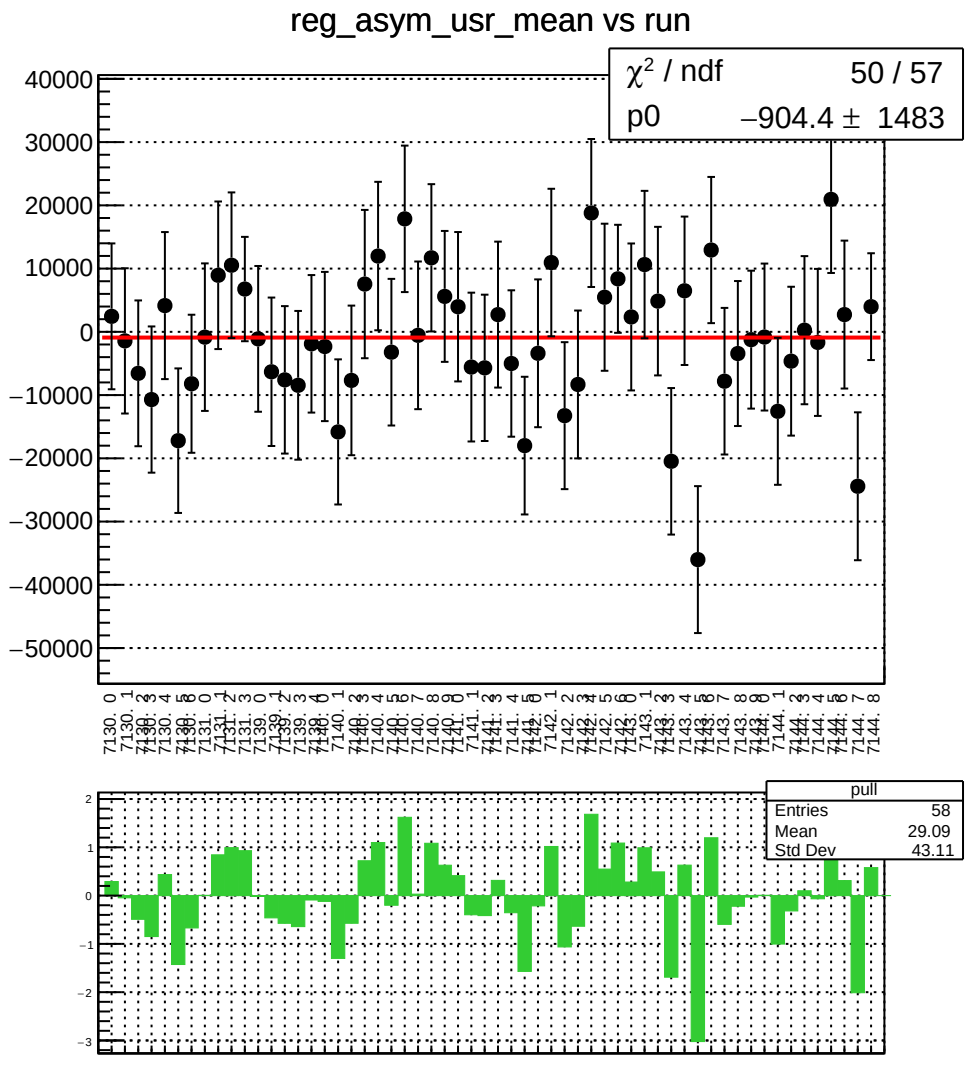

pull1D
Entries 58
Mean −0.02
Std Dev 1.003
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

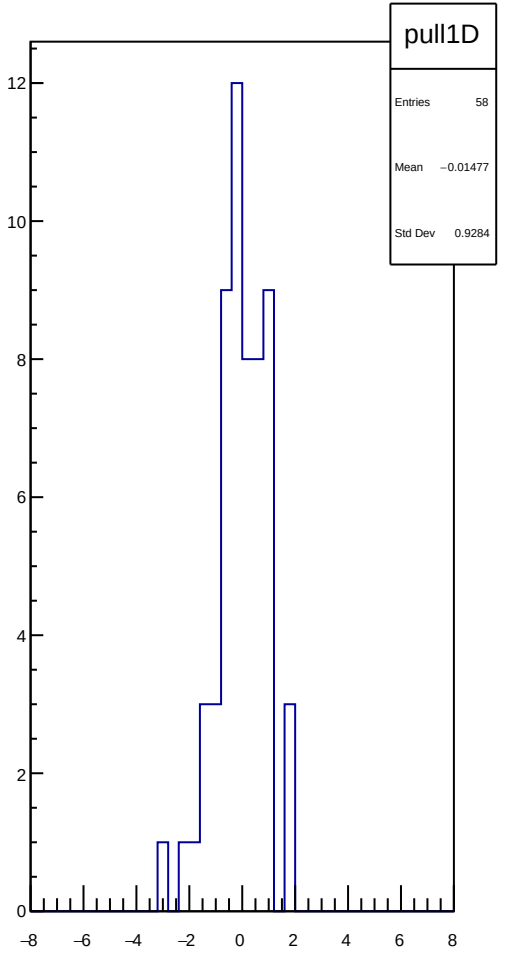

asym_usl_correction_rms vs run
χ² / ndf 6164 / 57
p0 1304 ± 1.242
1600
1500
1400
1300
1200

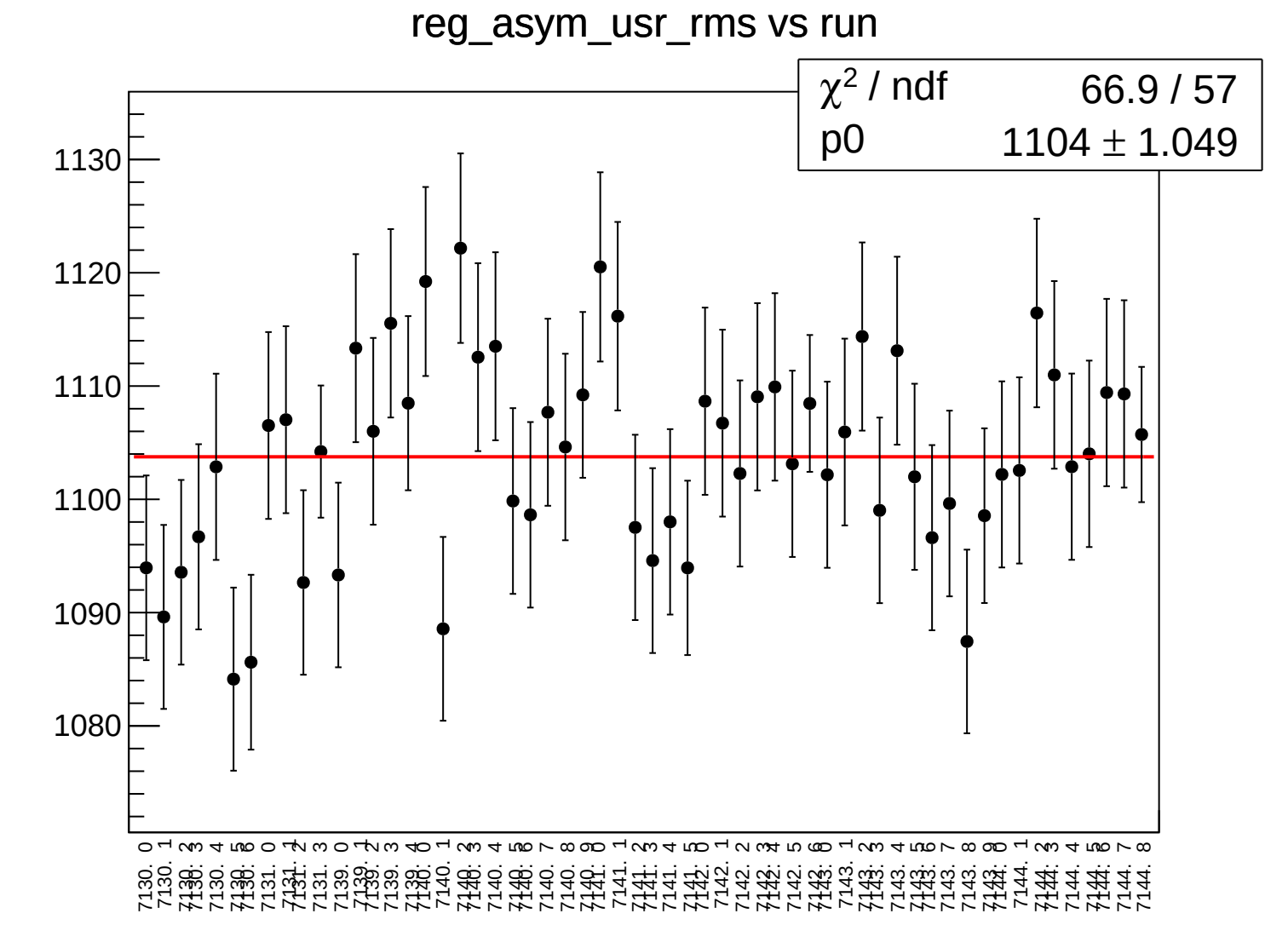

asym_usl_mean vs run
χ^2 / ndf 60.2 / 57
p0 −2253 ± 2319
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 58
Mean −177.6
Std Dev 205.1
2
1
0
−1
−2

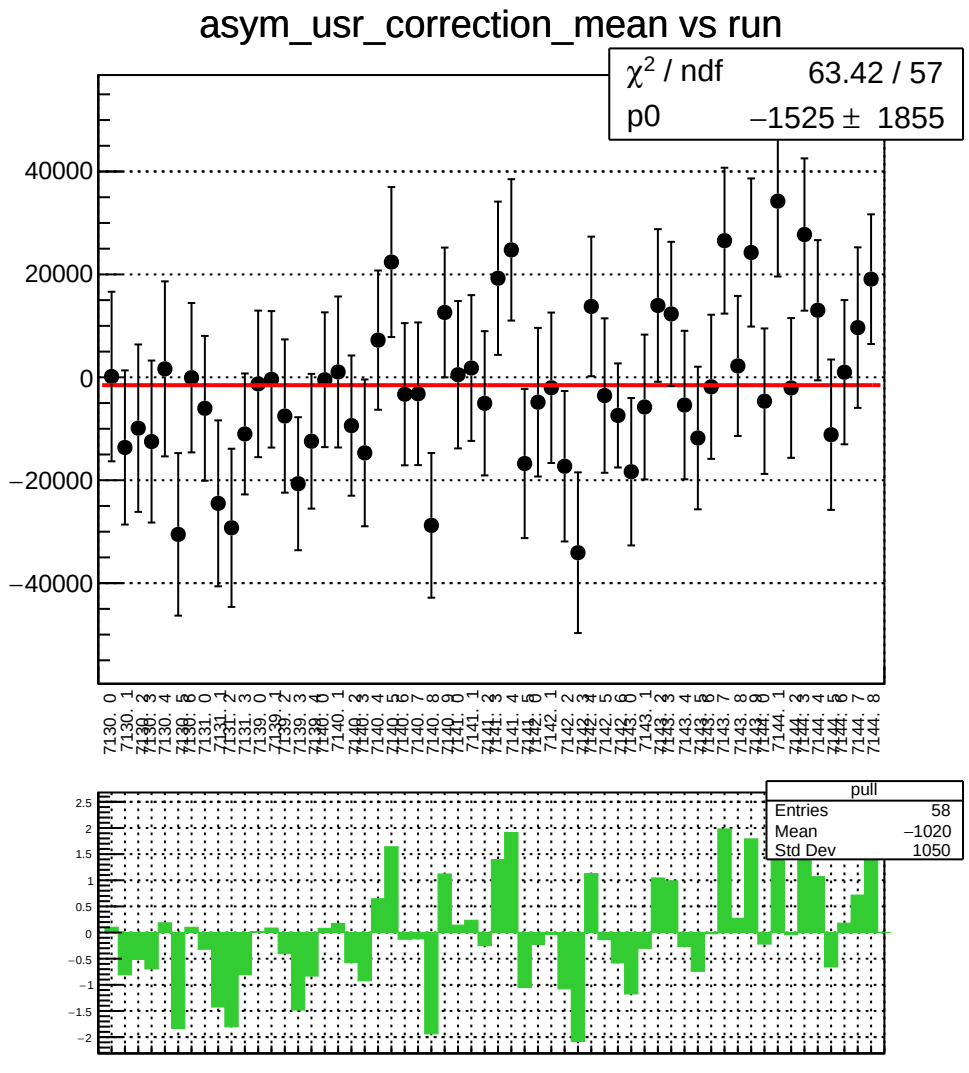

pull1D
Entries 58
Mean 0.004626
Std Dev 1.019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

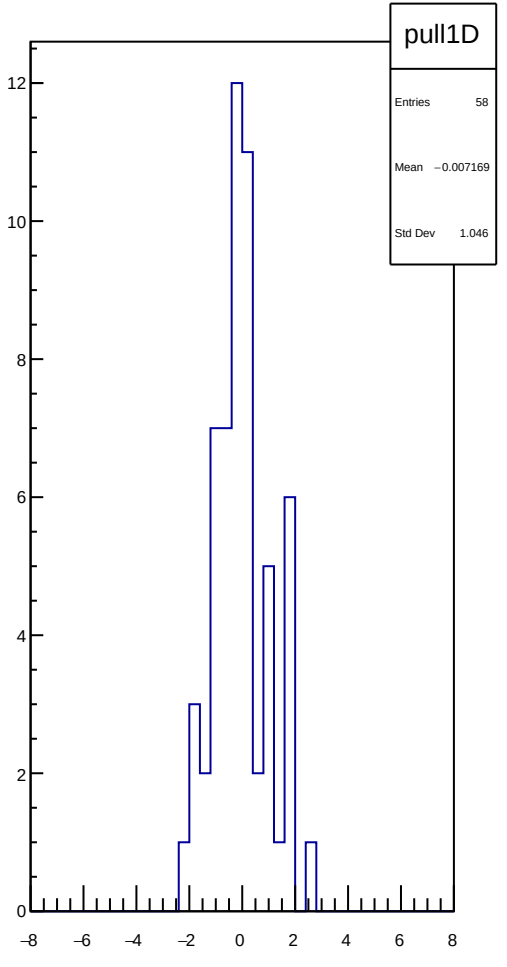

asym_usl_rms vs run
χ² / ndf 2254 / 57
p0 1724 ± 1.64
2000
1950
1900
1850
1800
1750
1700
1650
1600

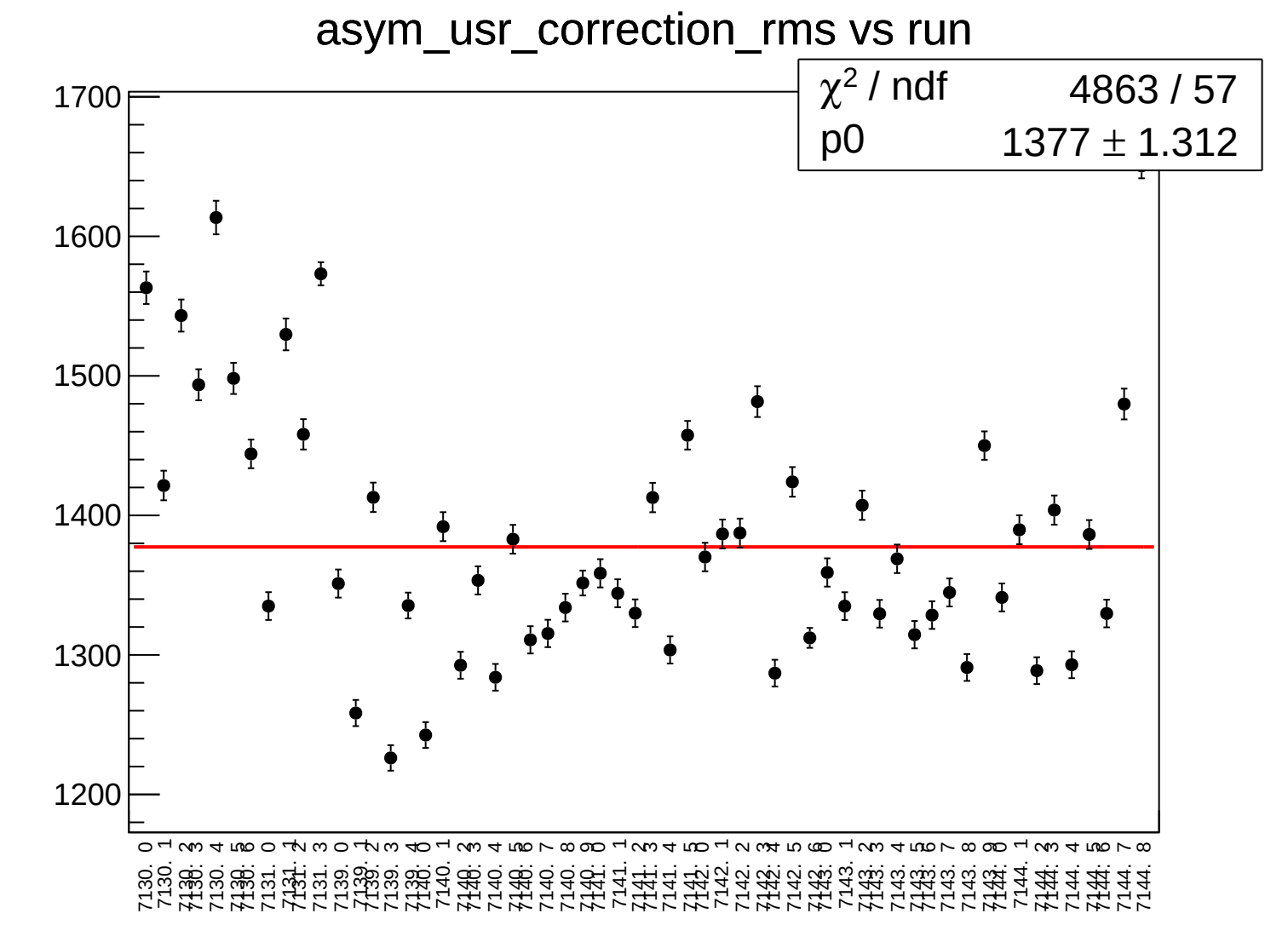

reg_asym_usr_mean vs run
χ² / ndf 50 / 57
p0 −904.4 ± 1483
pull
Entries 58
Mean 29.09
Std Dev 43.11

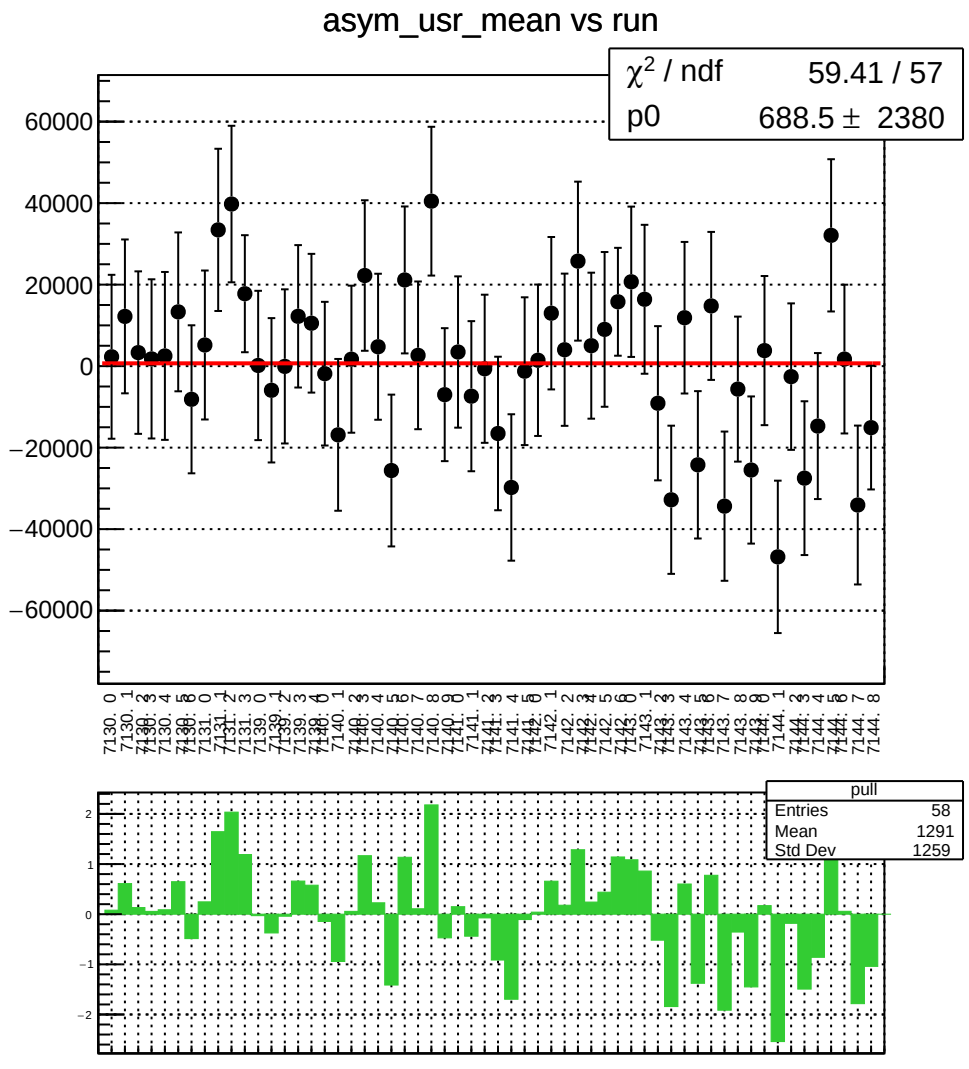

pull1D
Entries 58
Mean −0.01477
Std Dev 0.9284

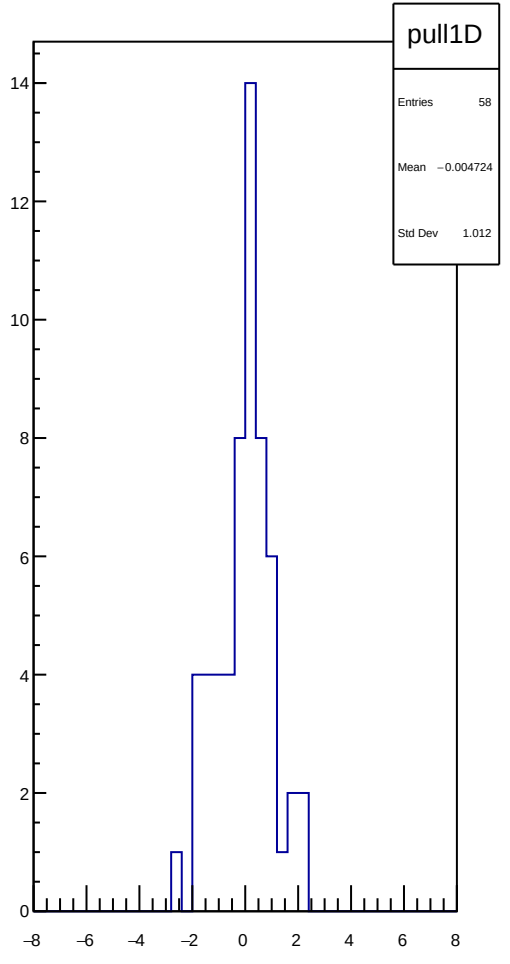

reg_asym_usr_rms vs run
χ² / ndf 66.9 / 57
p0 1104 ± 1.049
1130
1120
1110
1100
1090
1080

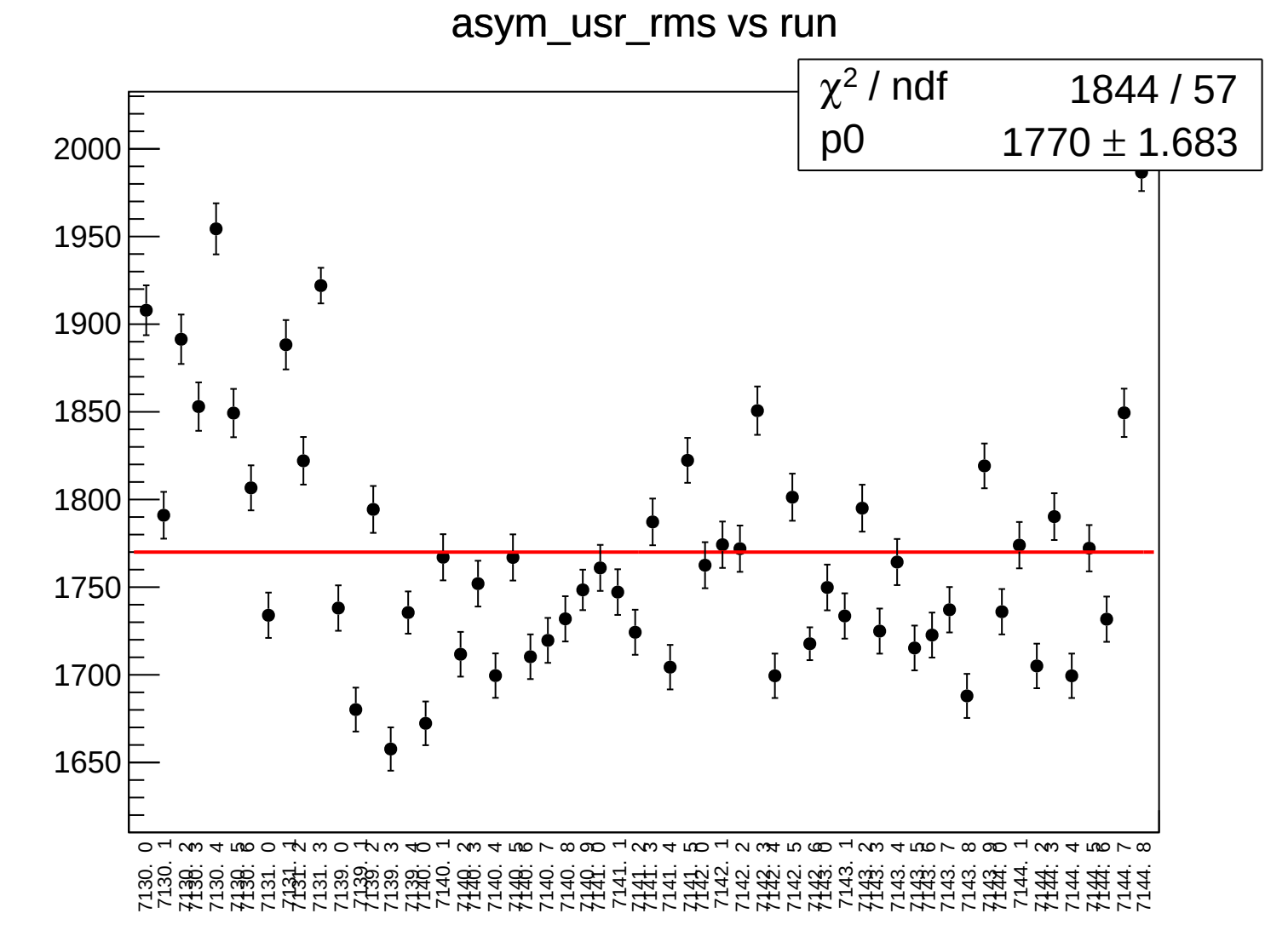

asym_usr_correction_mean vs run
χ² / ndf 63.42 / 57
p0 −1525 ± 1855
40000
20000
0
−20000
−40000
pull
Entries 58
Mean −1020
Std Dev 1050
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

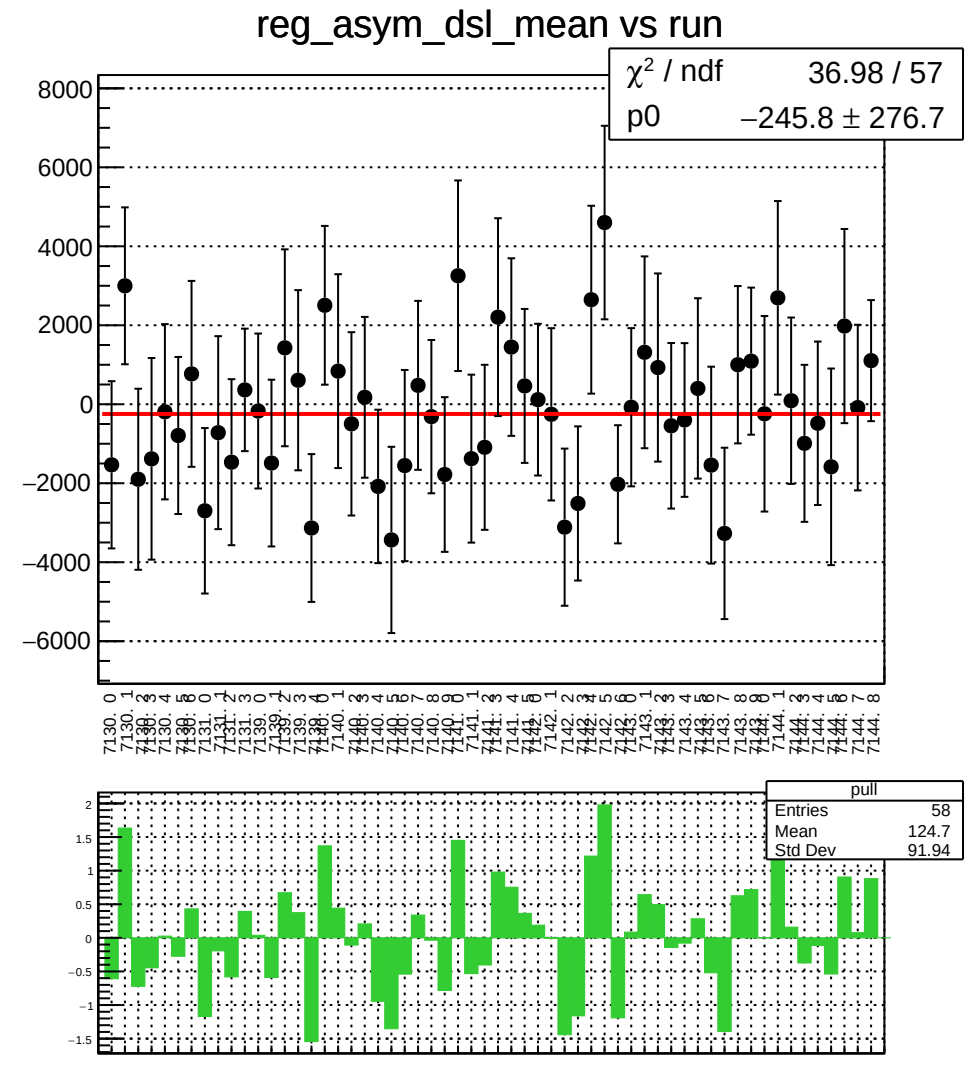

pull1D
Entries 58
Mean −0.007169
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

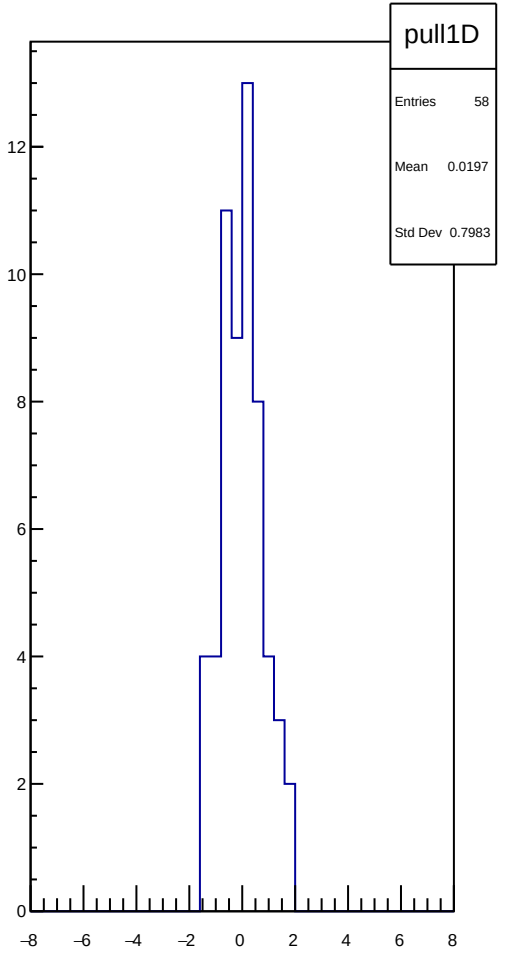

asym_usr_correction_rms vs run
χ² / ndf 4863 / 57
p0 1377 ± 1.312
1700
1600
1500
1400
1300
1200

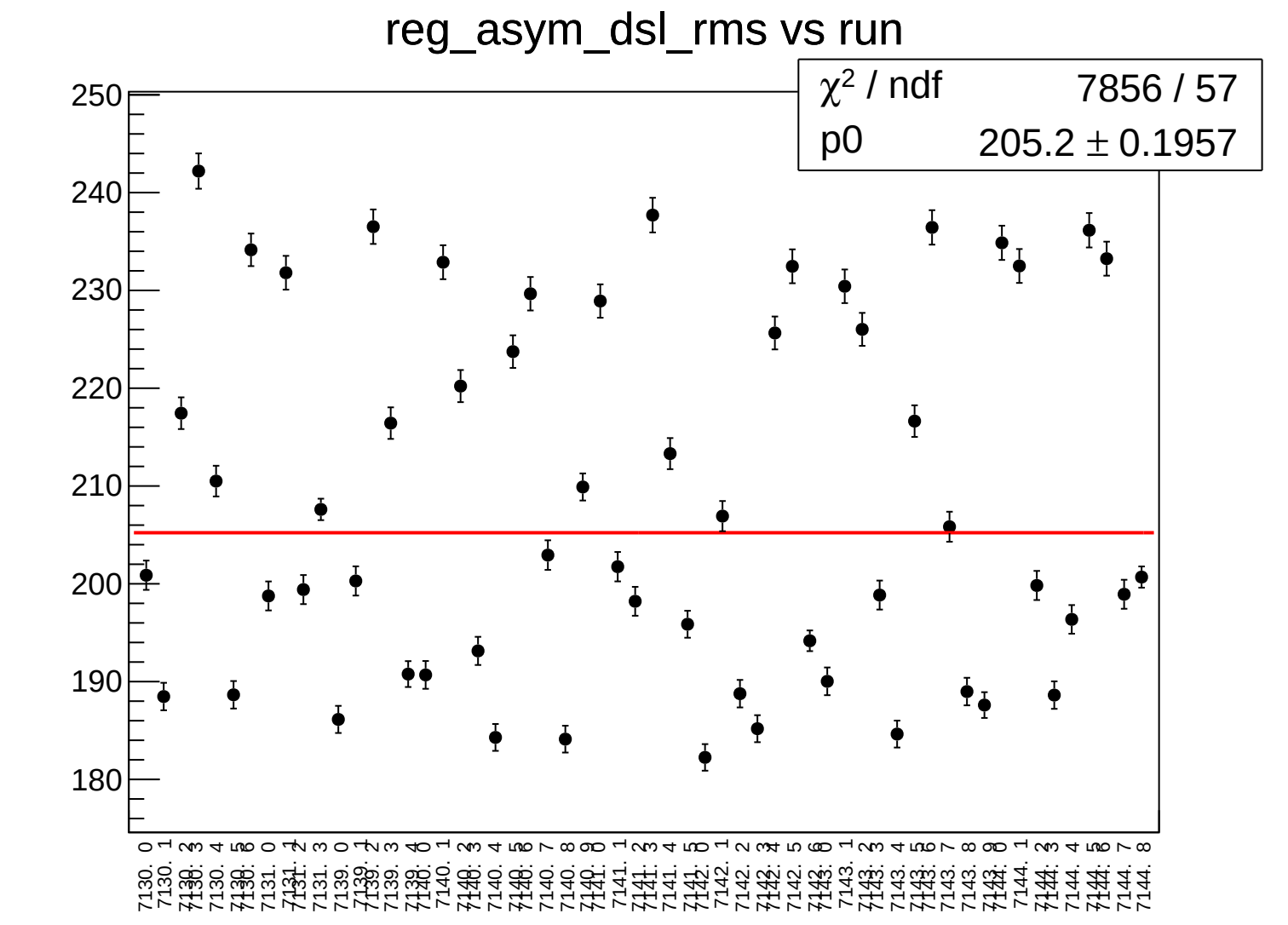

asym_usr_mean vs run
χ² / ndf 59.41 / 57
p0 688.5 ± 2380
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 58
Mean 1291
Std Dev 1259
2
1
0
−1
−2

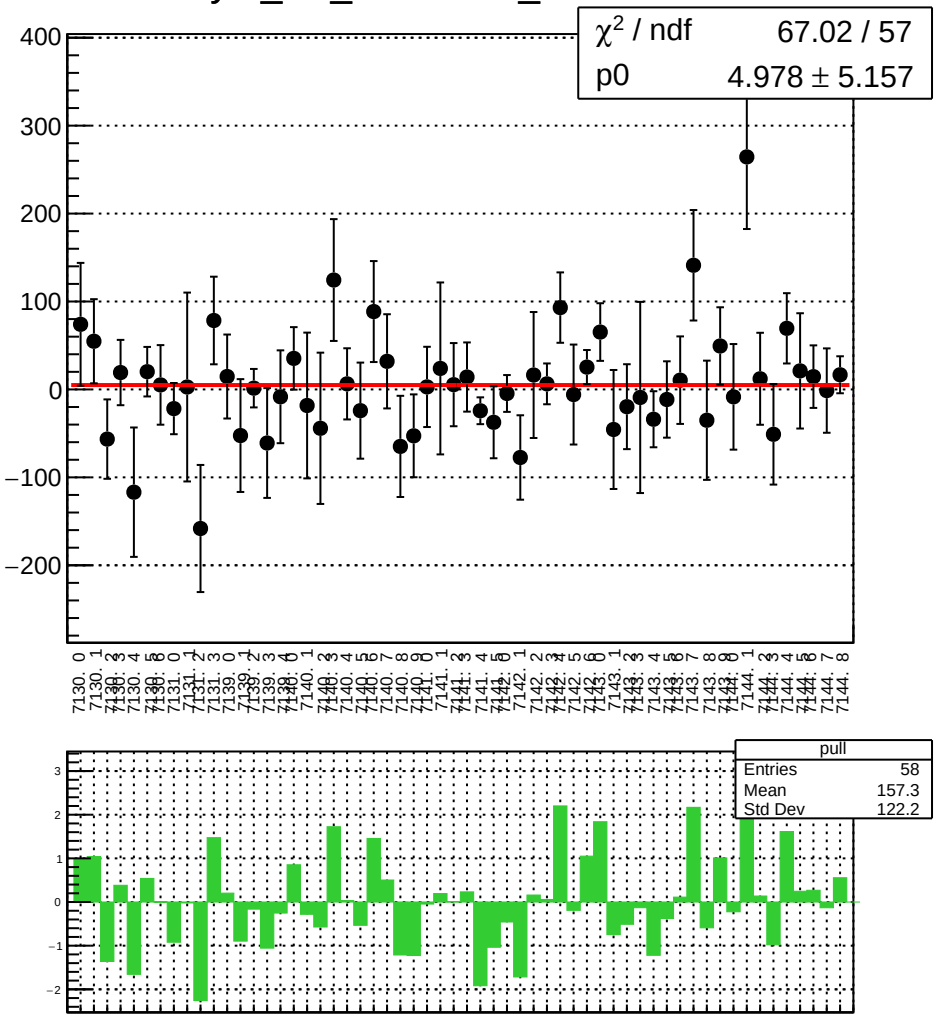

pull1D
Entries 58
Mean −0.004724
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

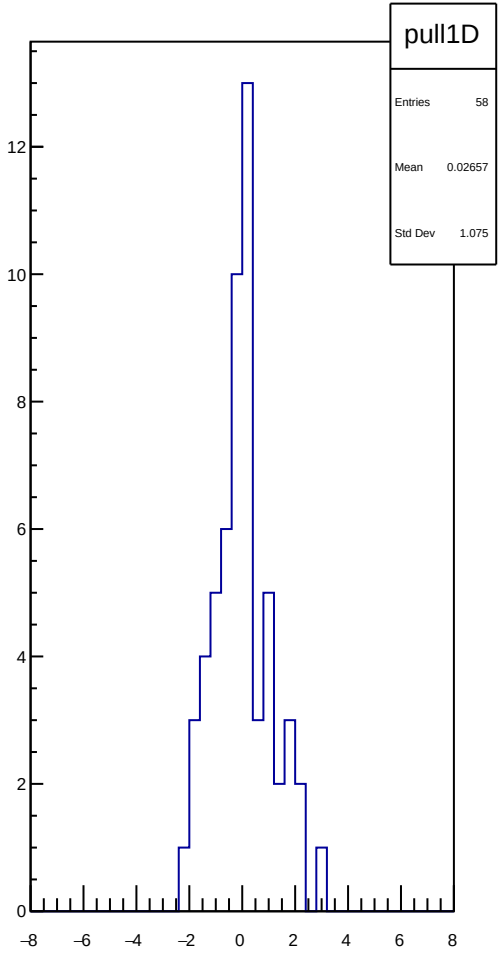

asym_usr_rms vs run
χ² / ndf 1844 / 57
p0 1770 ± 1.683
2000
1950
1900
1850
1800
1750
1700
1650

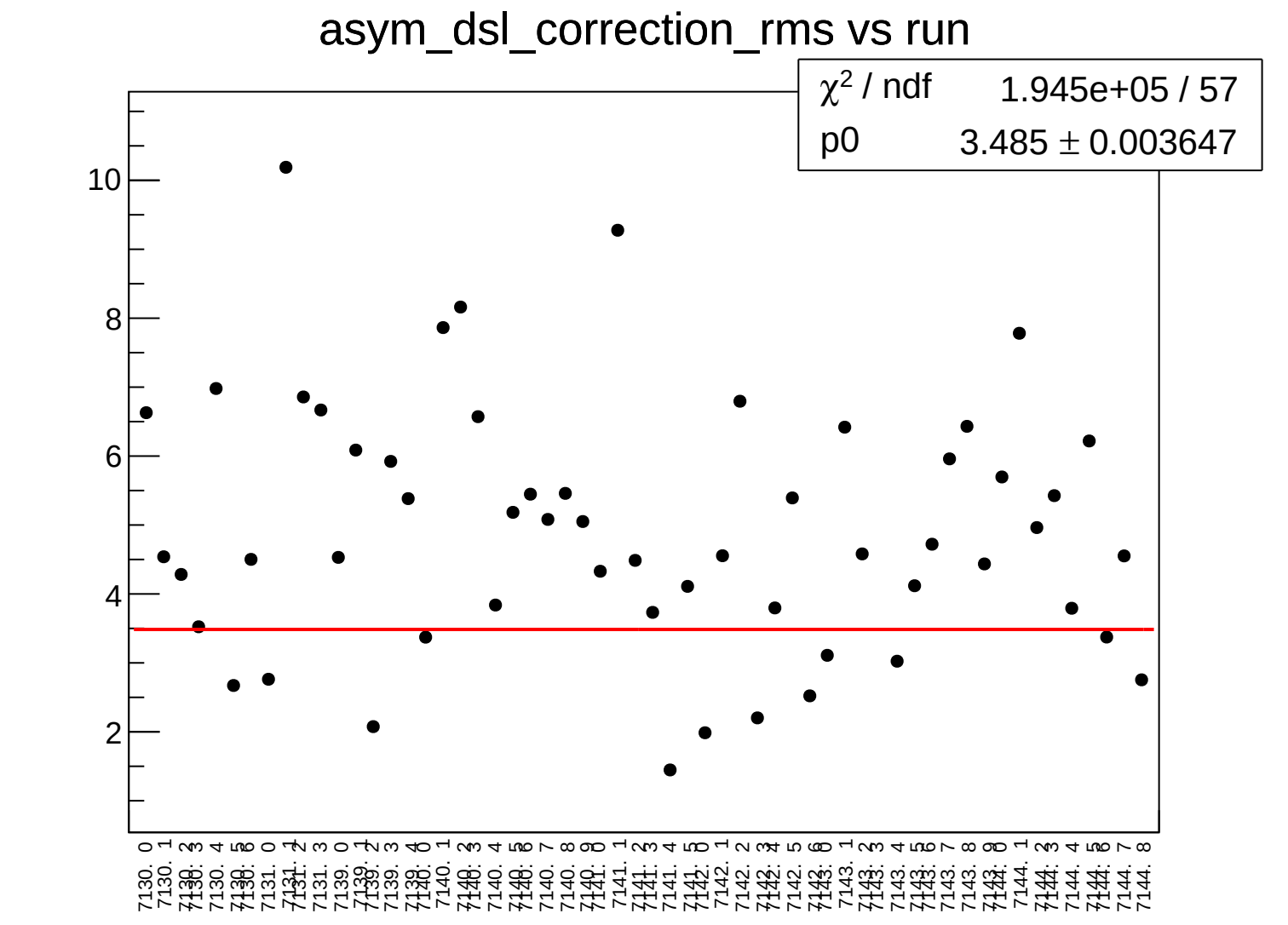

reg_asym_dsl_mean vs run
χ² / ndf 36.98 / 57
p0 −245.8 ± 276.7
pull
Entries 58
Mean 124.7
Std Dev 91.94

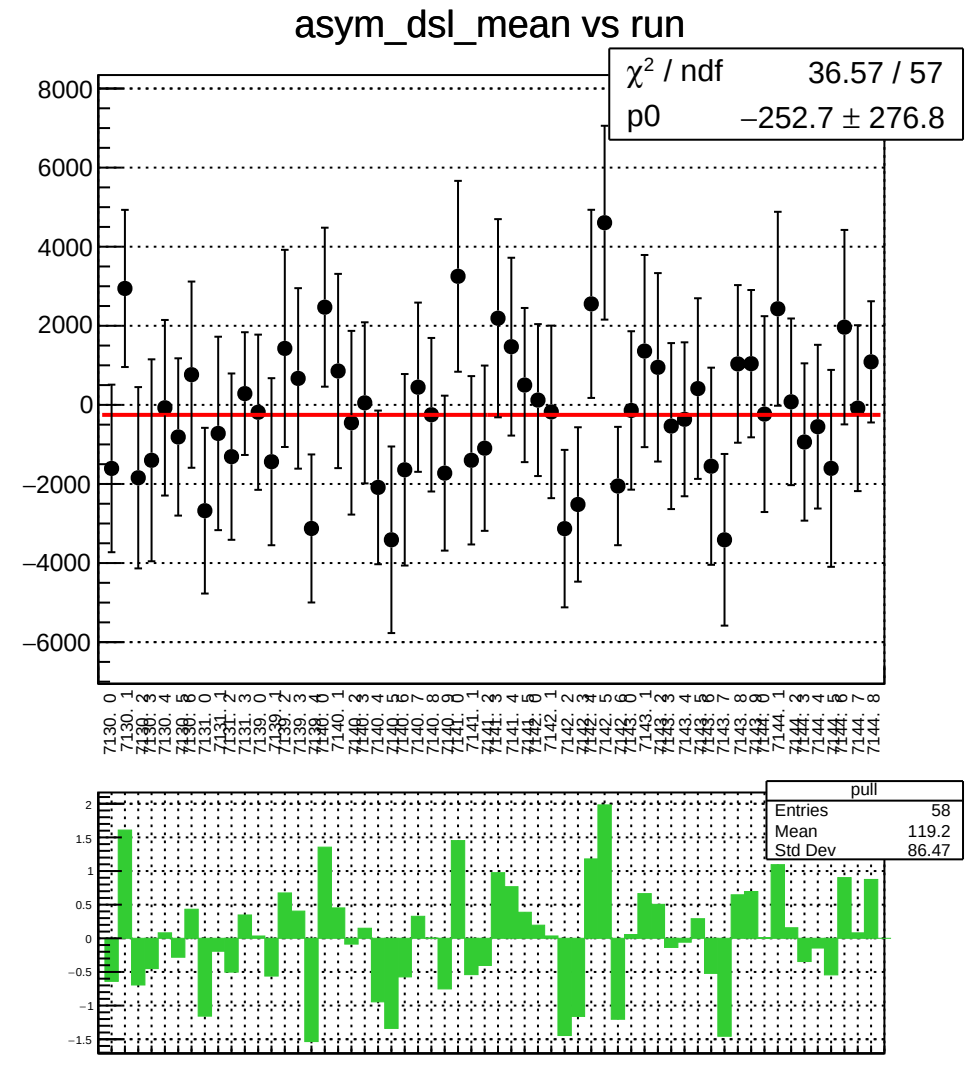

pull1D
Entries 58
Mean 0.0197
Std Dev 0.7983

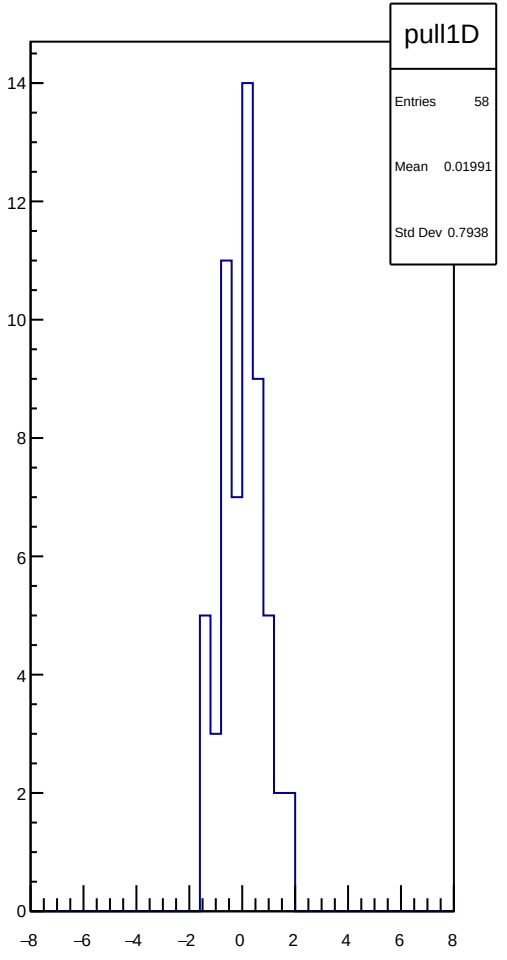

reg_asym_dsl_rms vs run
χ² / ndf 7856 / 57
p0 205.2 ± 0.1957
250
240
230
220
210
200
190
180

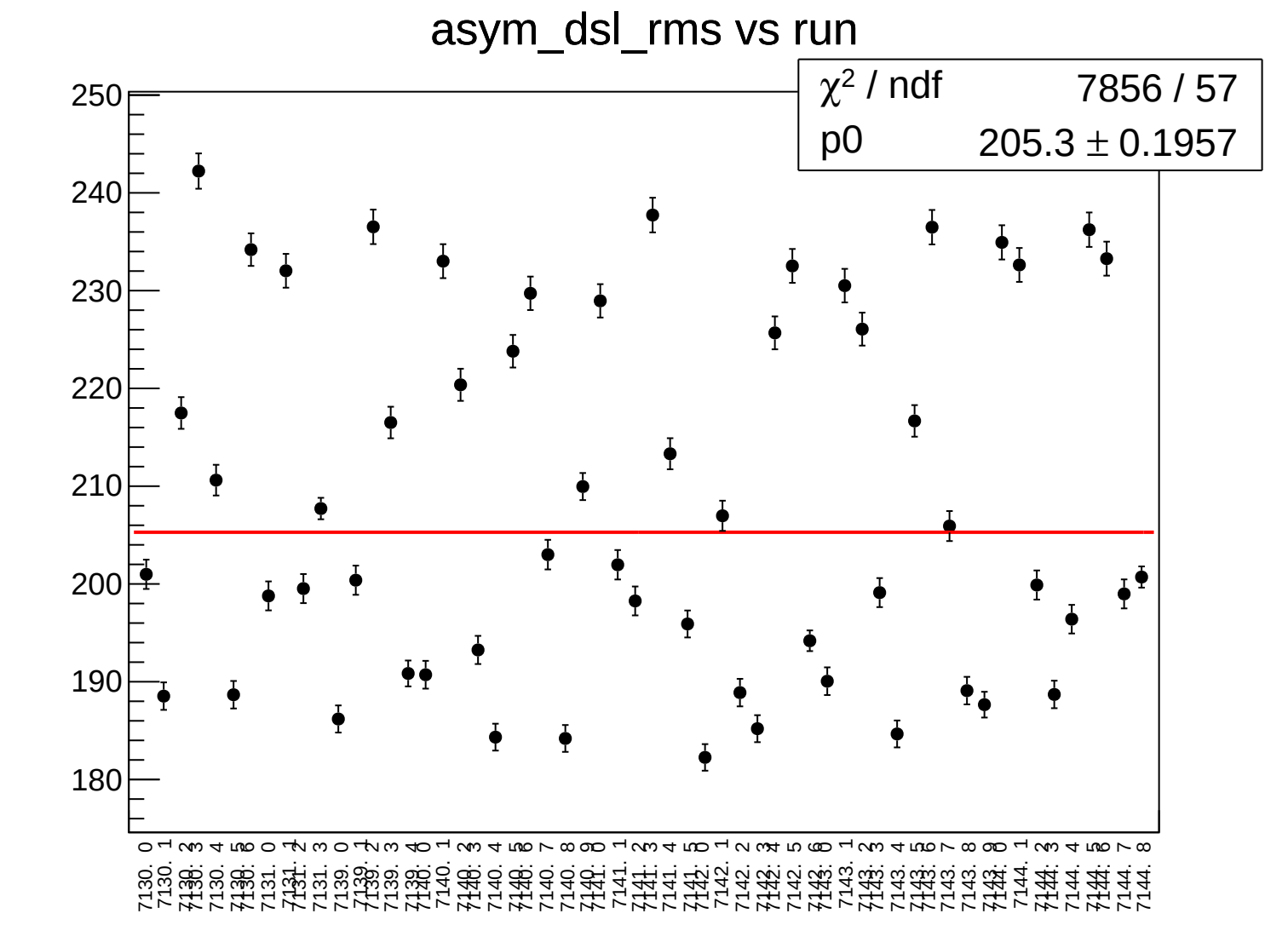

asym_dsl_correction_mean vs run
χ^2 / ndf 67.02 / 57
p0 4.978 ± 5.157
pull
Entries 58
Mean 157.3
Std Dev 122.2

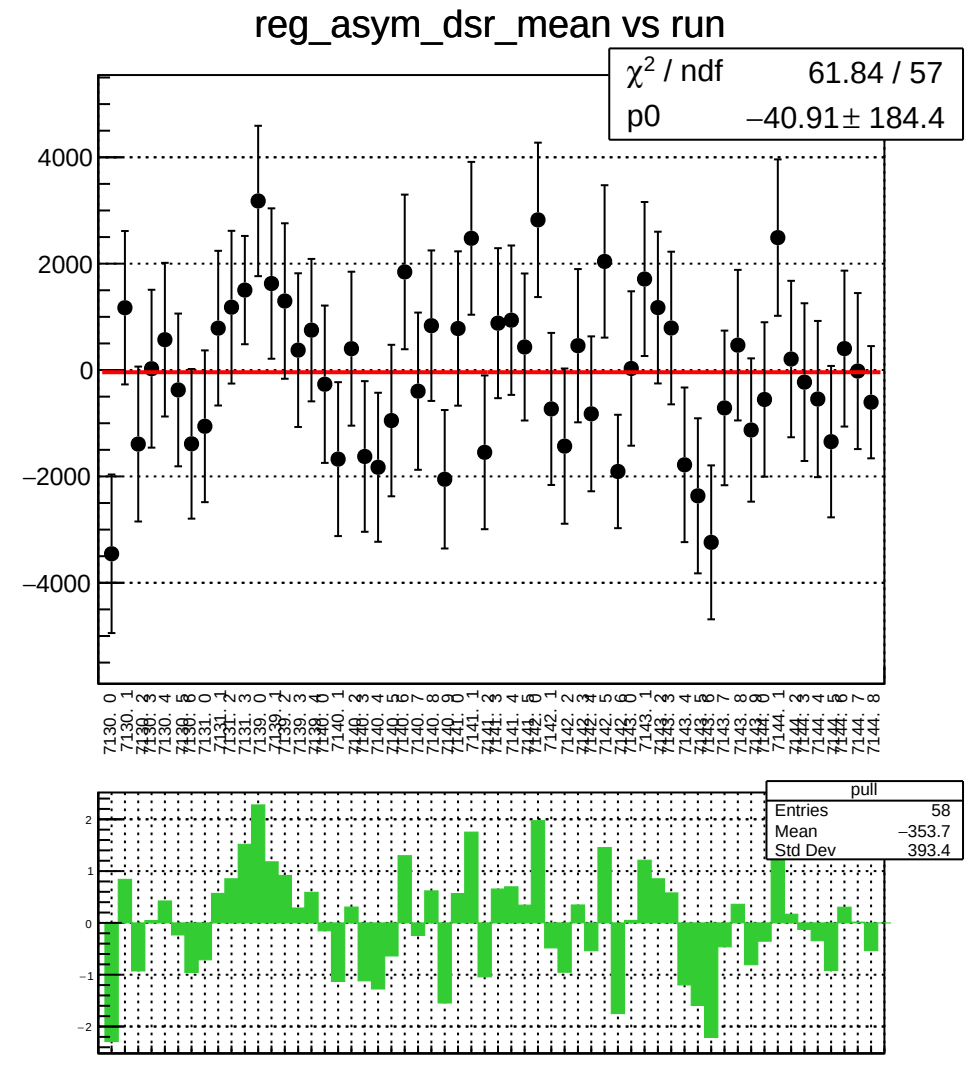

pull1D
Entries 58
Mean 0.02657
Std Dev 1.075

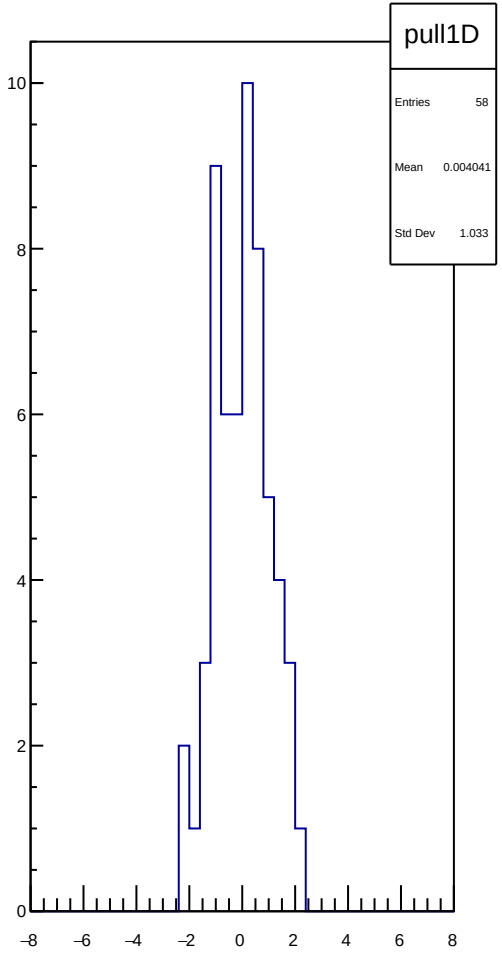

asym_dsl_correction_rms vs run
χ^2 / ndf 1.945e+05 / 57
p0 3.485 ± 0.003647
10
8
6
4
2

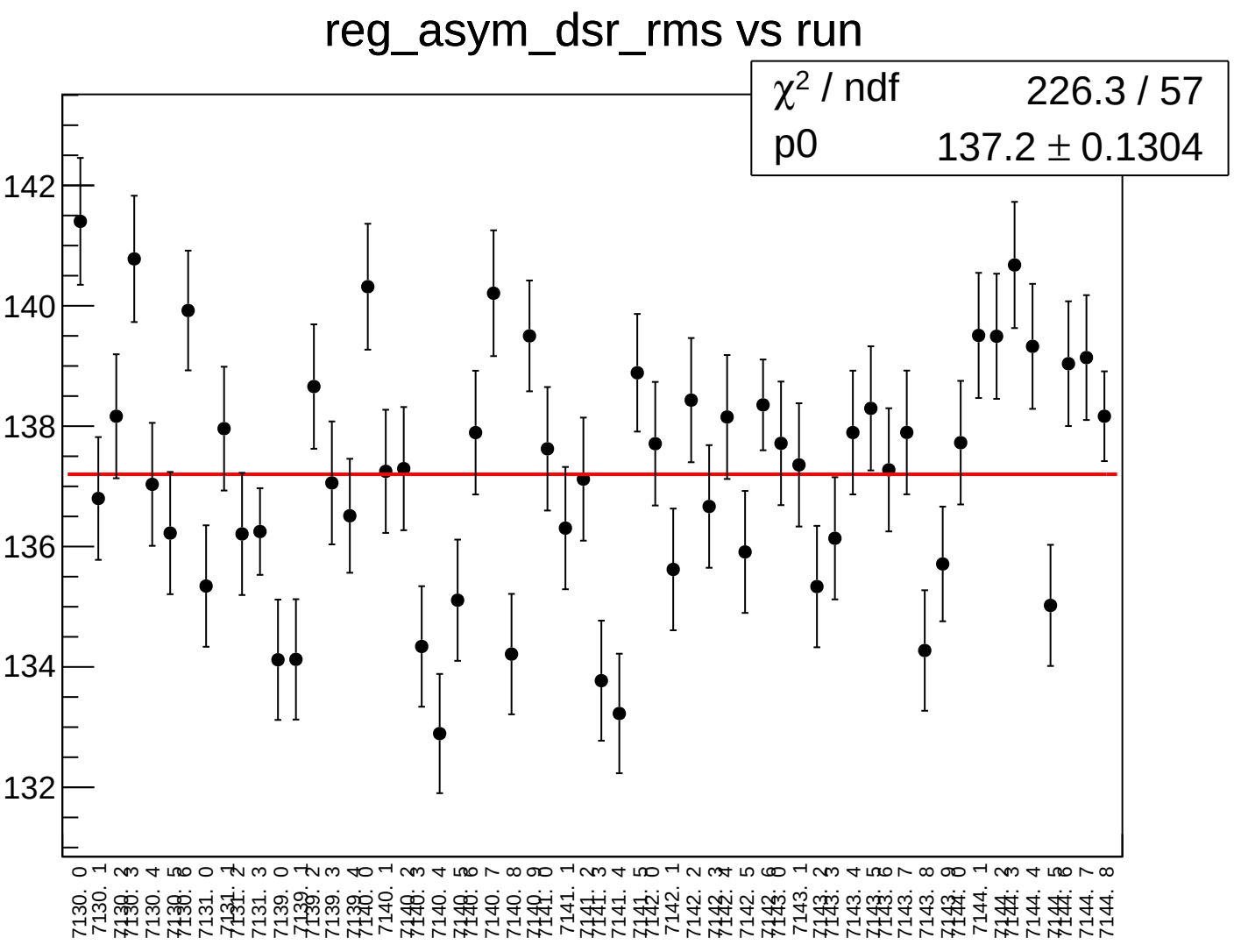

asym_dsl_mean vs run
χ² / ndf 36.57 / 57
p0 −252.7 ± 276.8
pull
Entries 58
Mean 119.2
Std Dev 86.47

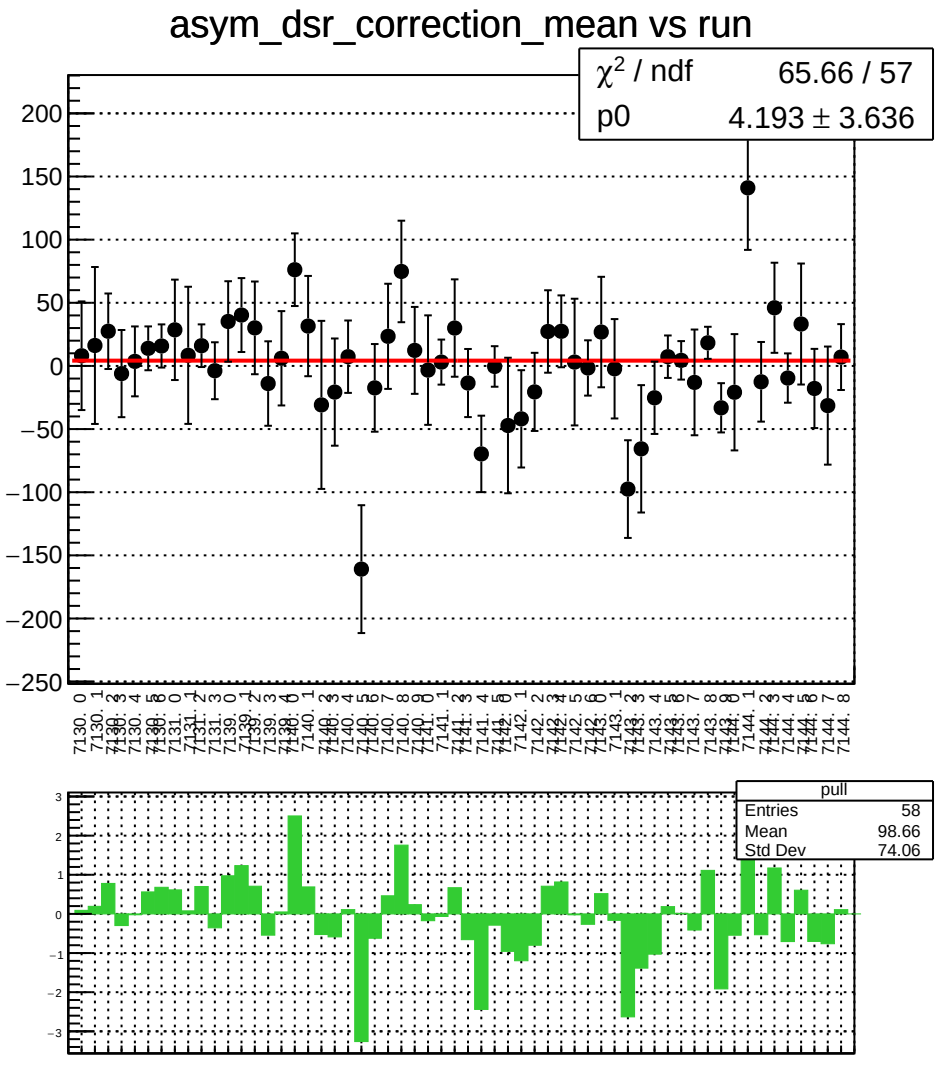

pull1D
Entries 58
Mean 0.01991
Std Dev 0.7938

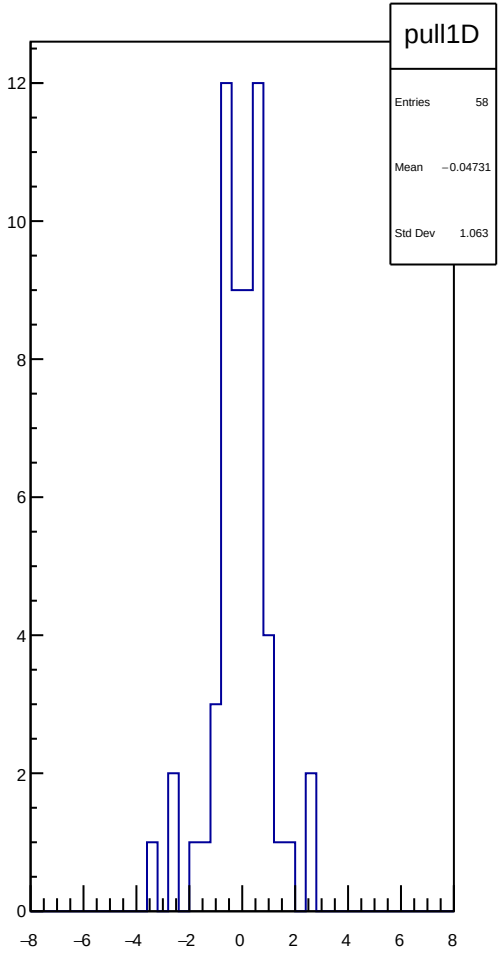

asym_dsl_rms vs run
χ² / ndf 7856 / 57
p0 205.3 ± 0.1957
250
240
230
220
210
200
190
180

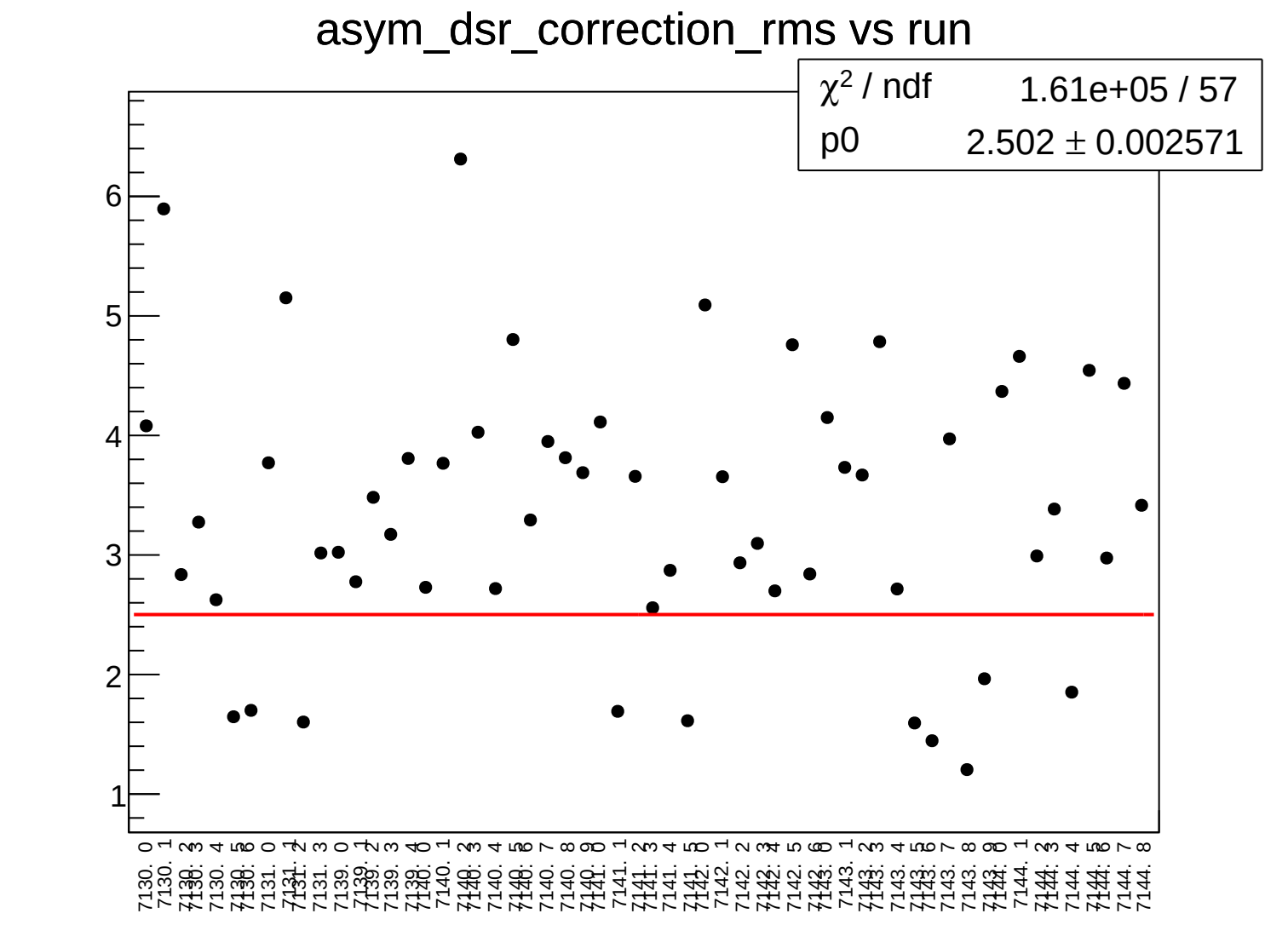

reg_asym_dsr_mean vs run
χ² / ndf 61.84 / 57
p0 −40.91 ± 184.4
4000
2000
0
−2000
−4000
pull
Entries 58
Mean −353.7
Std Dev 393.4
2
1
0
−1
−2

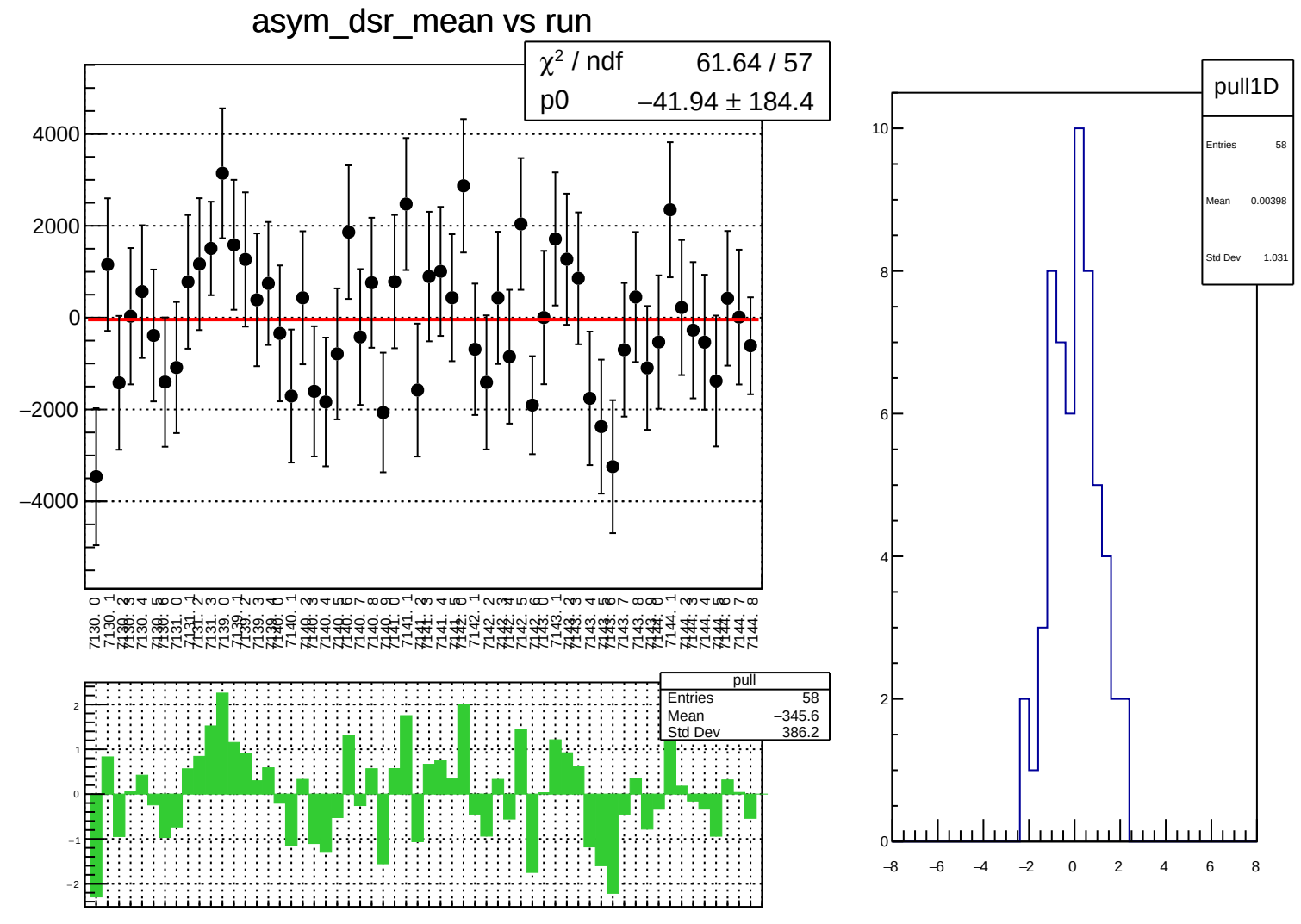

pull1D
Entries 58
Mean 0.004041
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

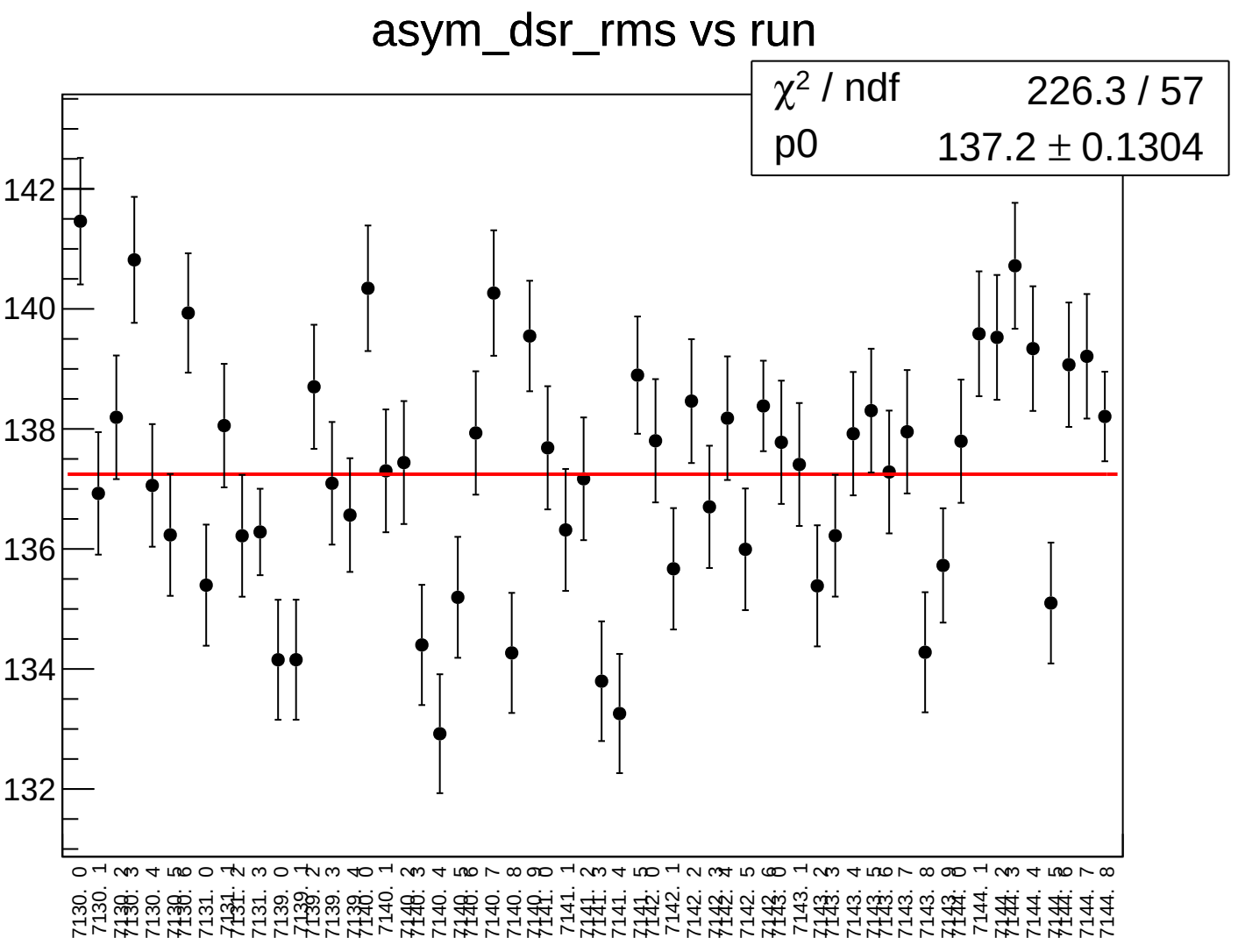

reg_asym_dsr_rms vs run
χ² / ndf 226.3 / 57
p0 137.2 ± 0.1304
142
140
138
136
134
132

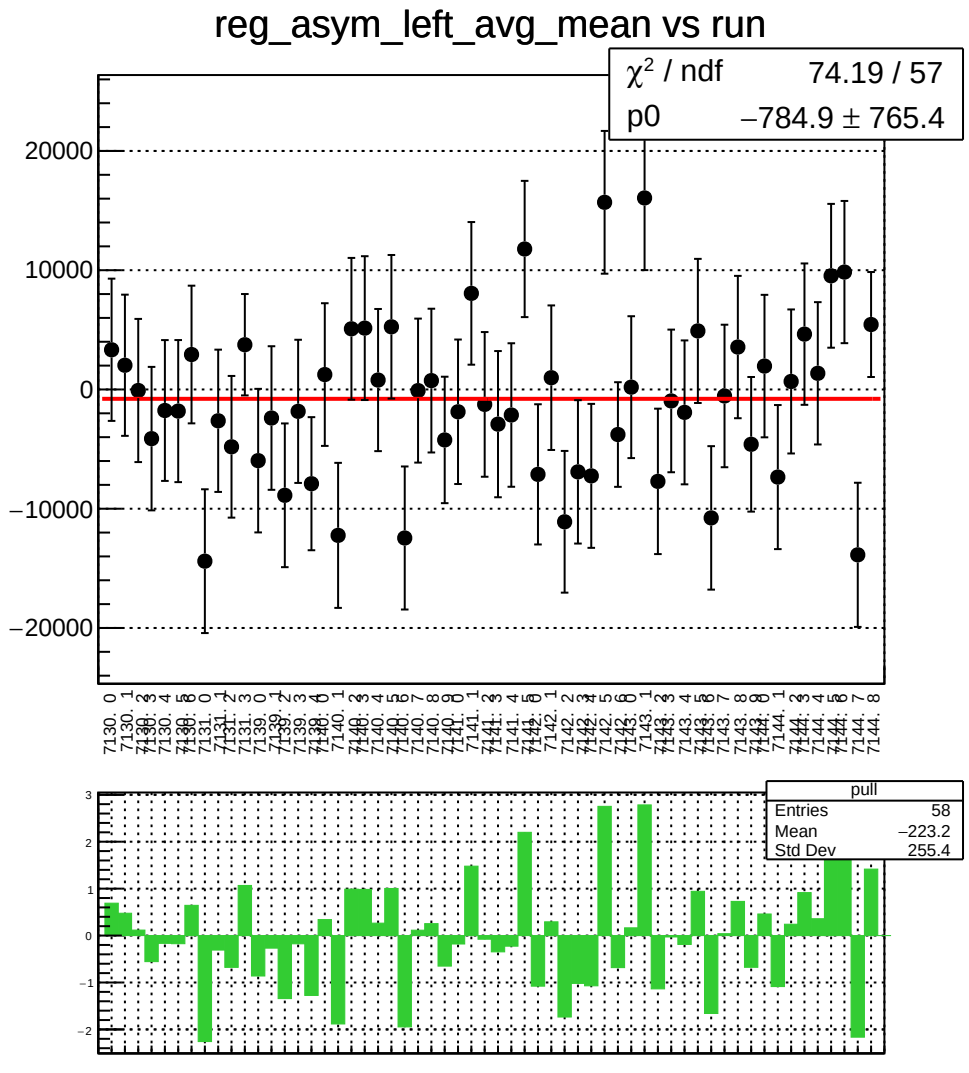

asym_dsr_correction_mean vs run
χ² / ndf 65.66 / 57
p0 4.193 ± 3.636
pull
Entries 58
Mean 98.66
Std Dev 74.06

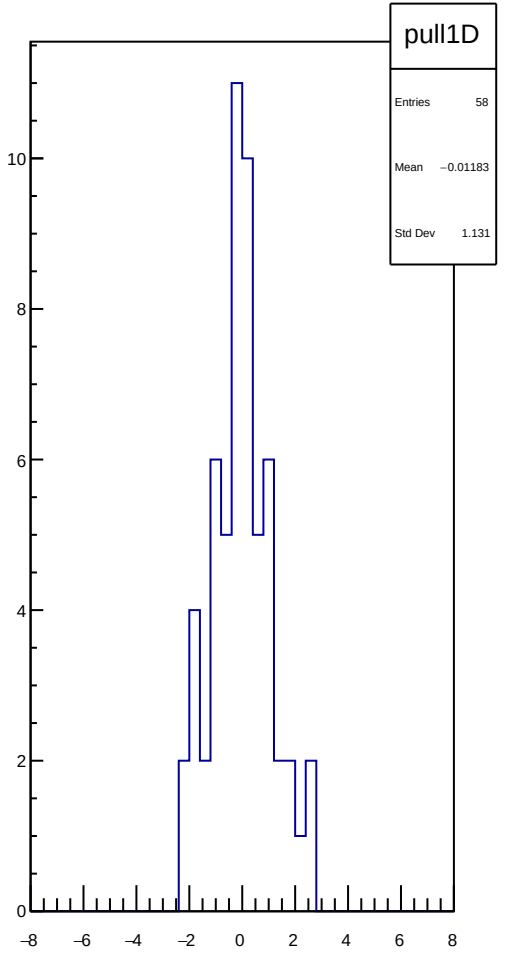

pull1D
Entries 58
Mean −0.04731
Std Dev 1.063

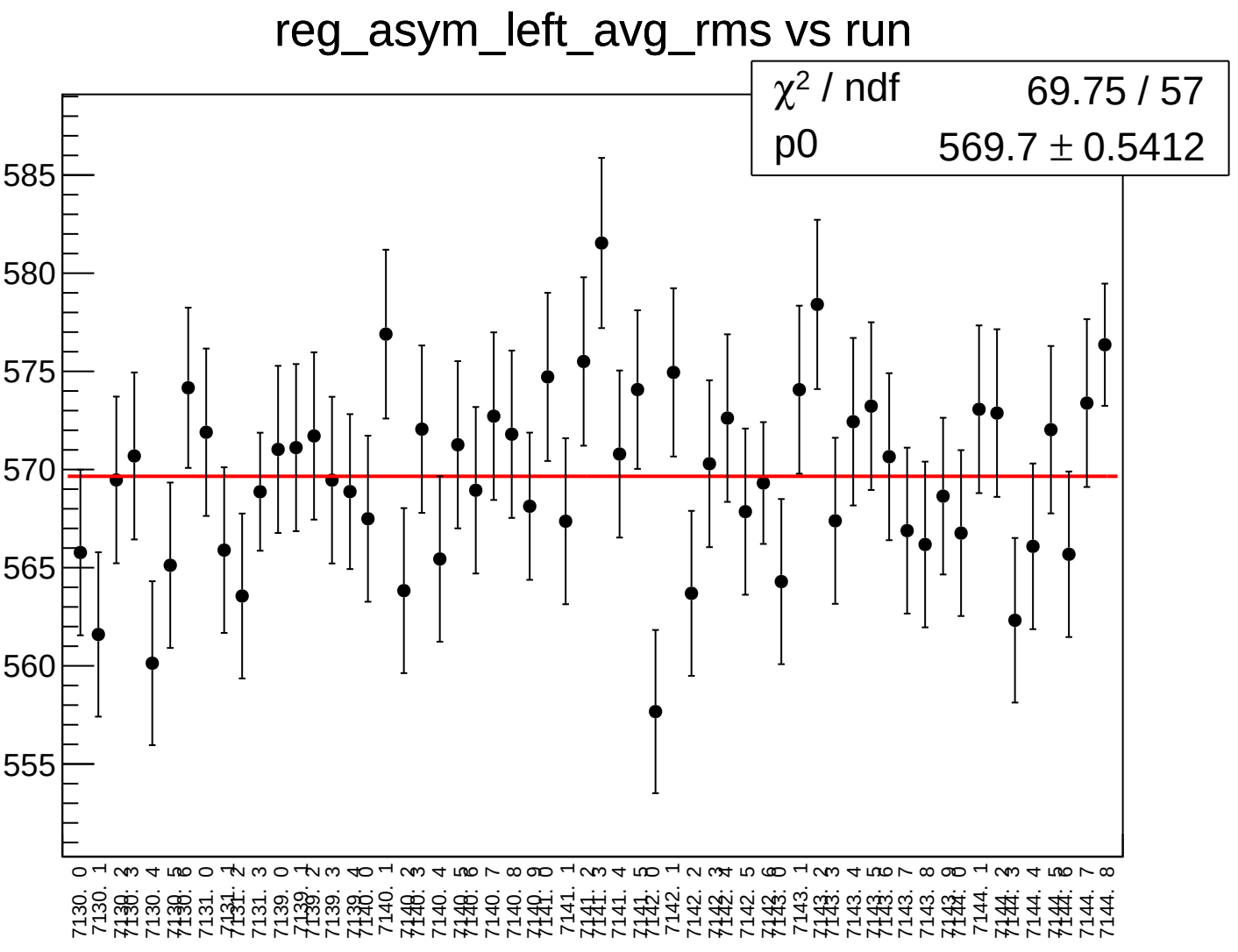

asym_dsr_correction_rms vs run
χ² / ndf 1.61e+05 / 57
p0 2.502 ± 0.002571
6
5
4
3
2
1

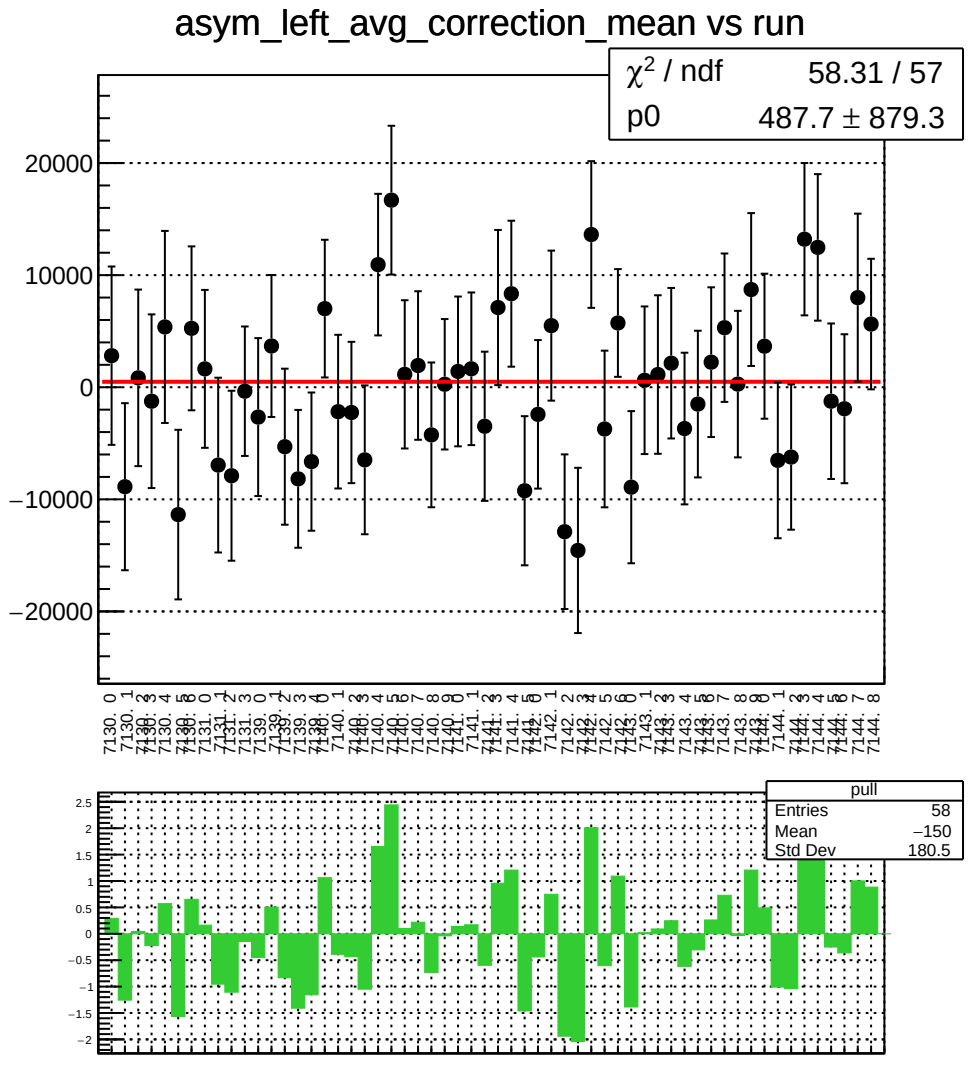

asym_dsr_mean vs run
χ² / ndf 61.64 / 57
p0 −41.94 ± 184.4
4000
2000
0
−2000
−4000
pull
Entries 58
Mean −345.6
Std Dev 386.2
pull1D
Entries 58
Mean 0.00398
Std Dev 1.031

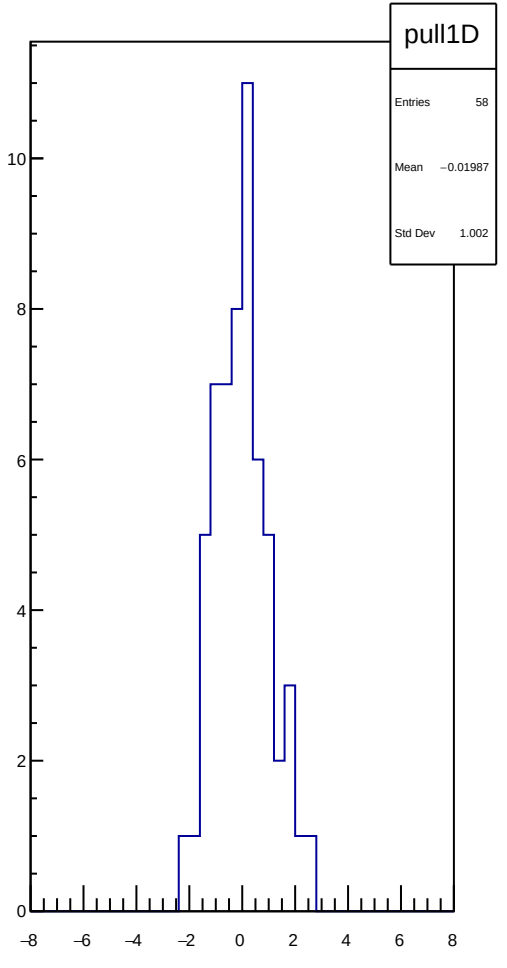

asym_dsr_rms vs run
χ² / ndf 226.3 / 57
p0 137.2 ± 0.1304
142
140
138
136
134
132

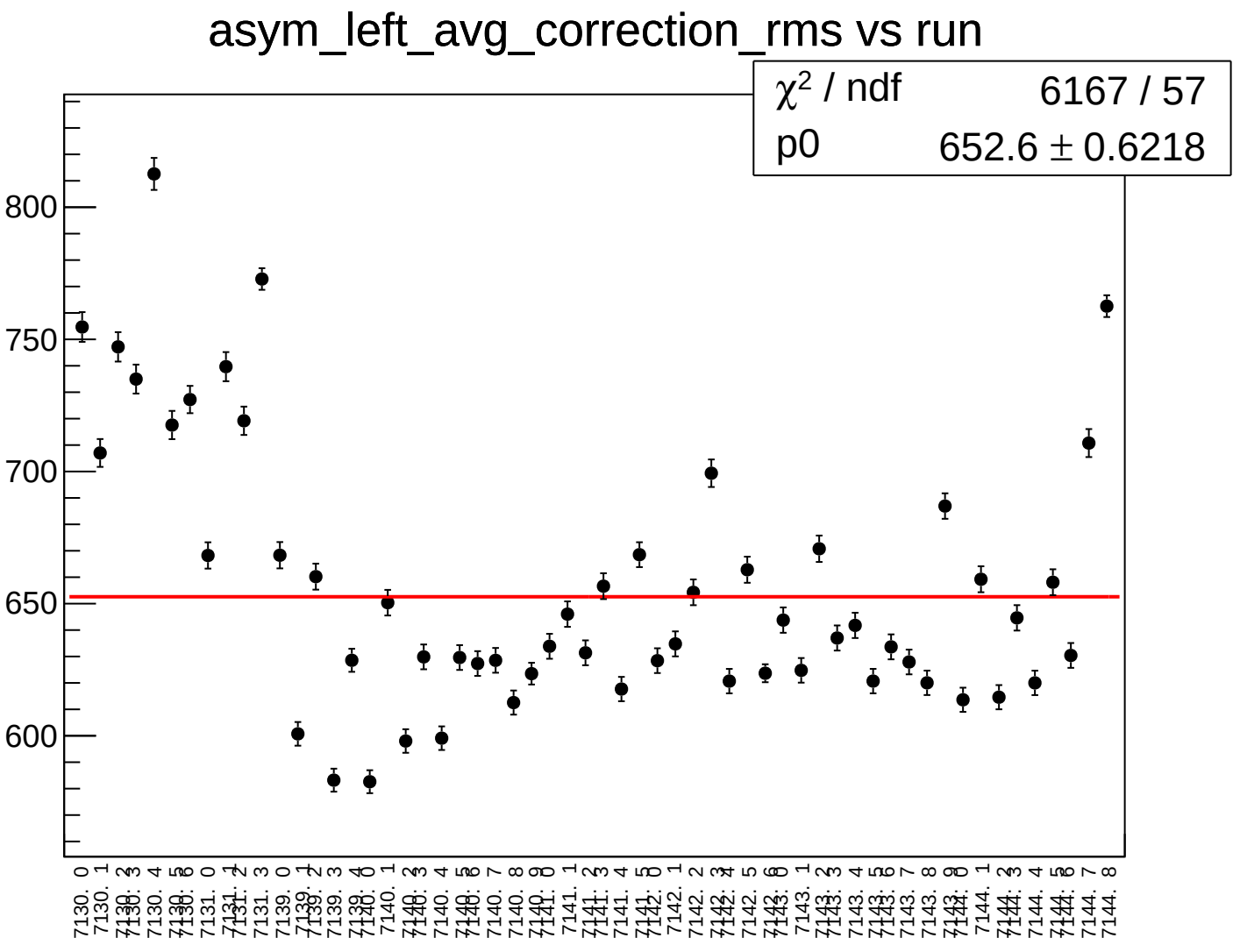

reg_asym_left_avg_mean vs run
χ² / ndf 74.19 / 57
p0 −784.9 ± 765.4
20000
10000
0
−10000
−20000
pull
Entries 58
Mean −223.2
Std Dev 255.4
3
2
1
0
−1
−2

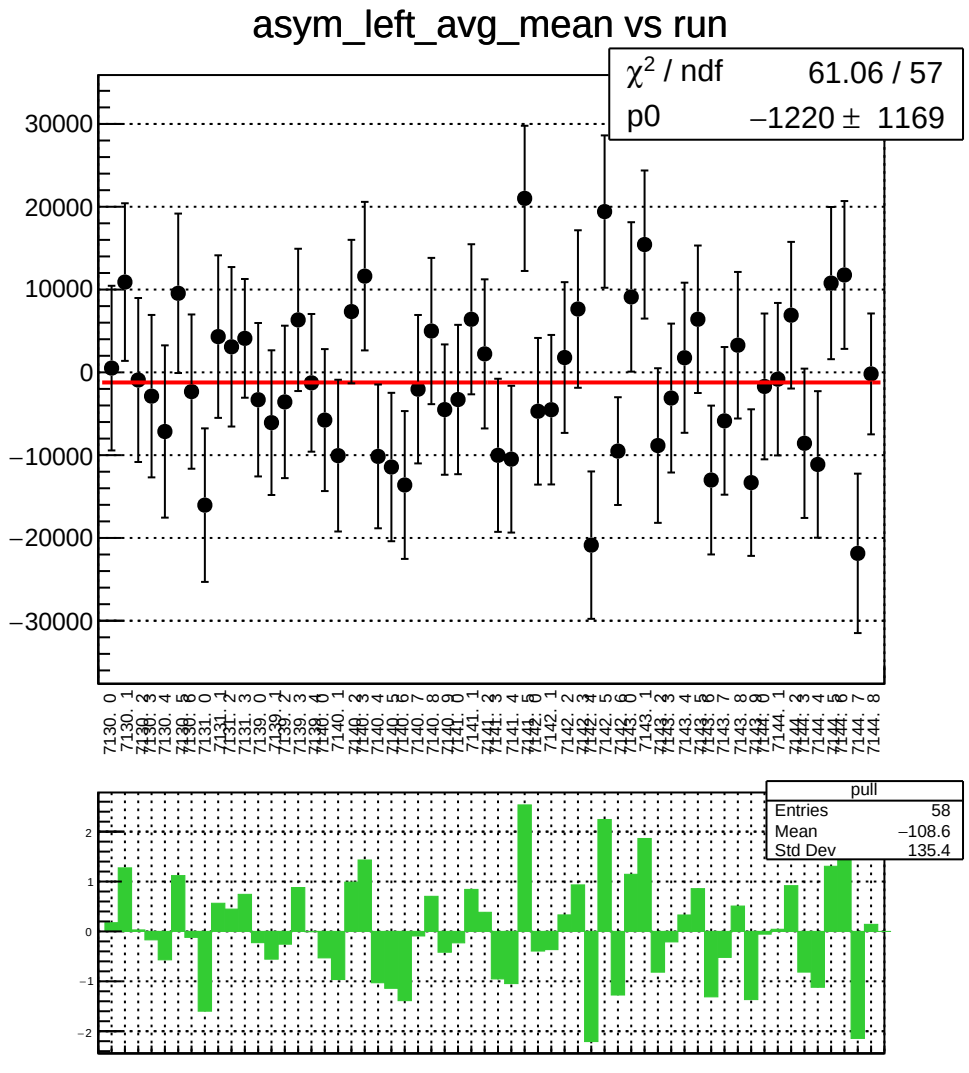

pull1D
Entries 58
Mean −0.01183
Std Dev 1.131
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

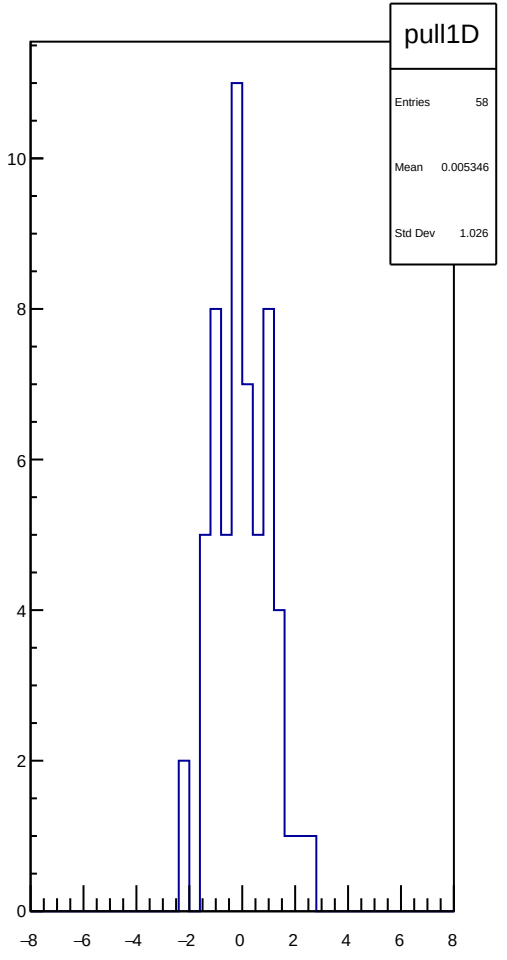

reg_asym_left_avg_rms vs run
χ² / ndf 69.75 / 57
p0 569.7 ± 0.5412
585
580
575
570
565
560
555

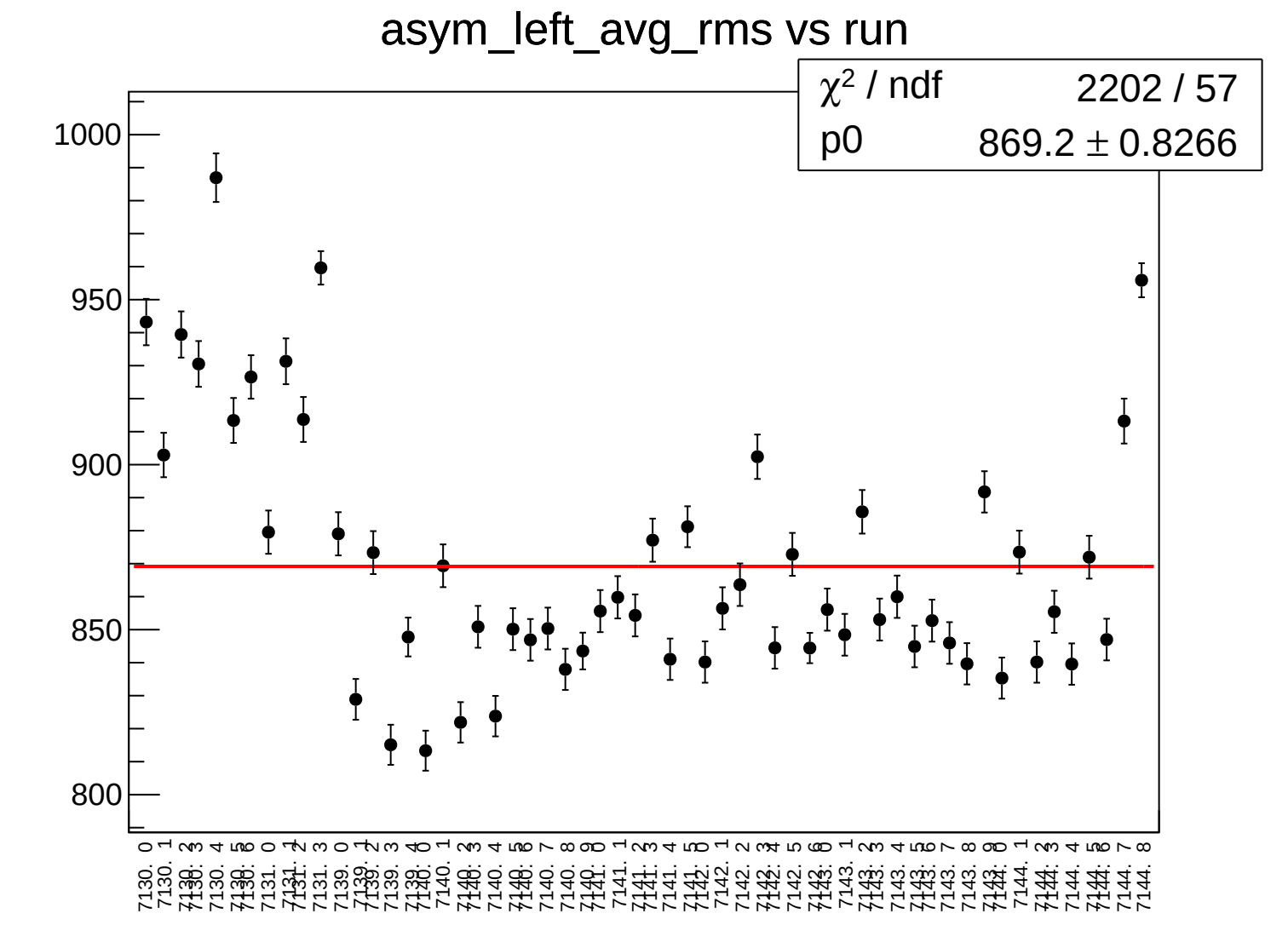

asym_left_avg_correction_mean vs run
χ² / ndf 58.31 / 57
p0 487.7 ± 879.3
20000
10000
0
−10000
−20000
pull
Entries 58
Mean −150
Std Dev 180.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

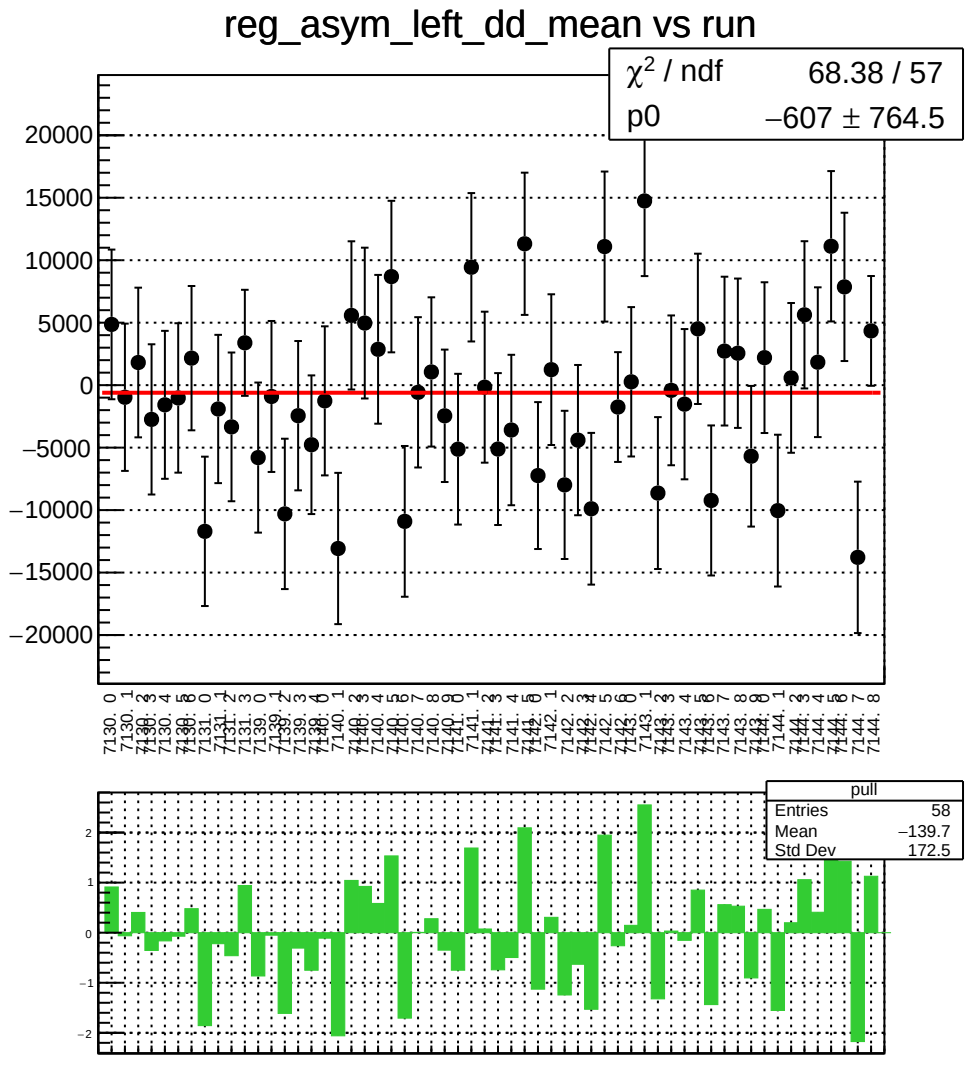

pull1D
Entries 58
Mean −0.01987
Std Dev 1.002
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

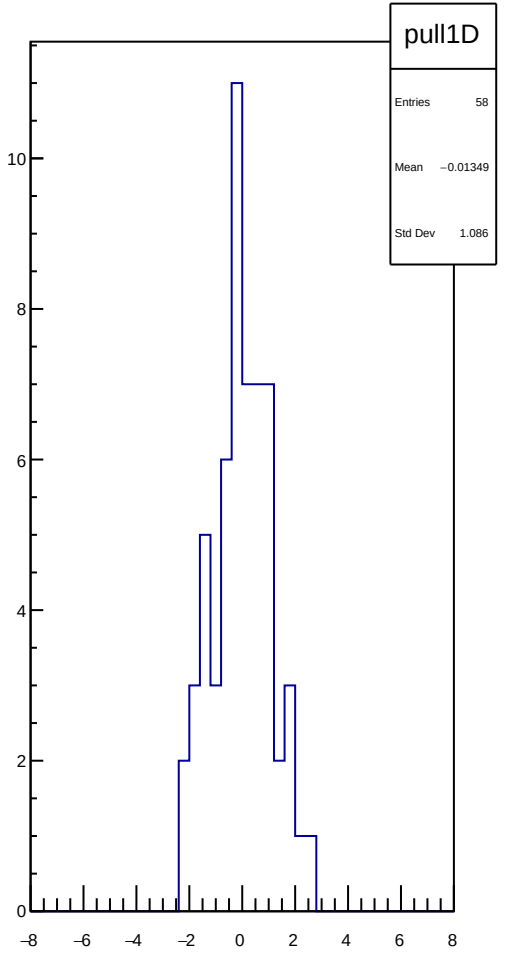

asym_left_avg_correction_rms vs run
χ² / ndf 6167 / 57
p0 652.6 ± 0.6218
800
750
700
650
600

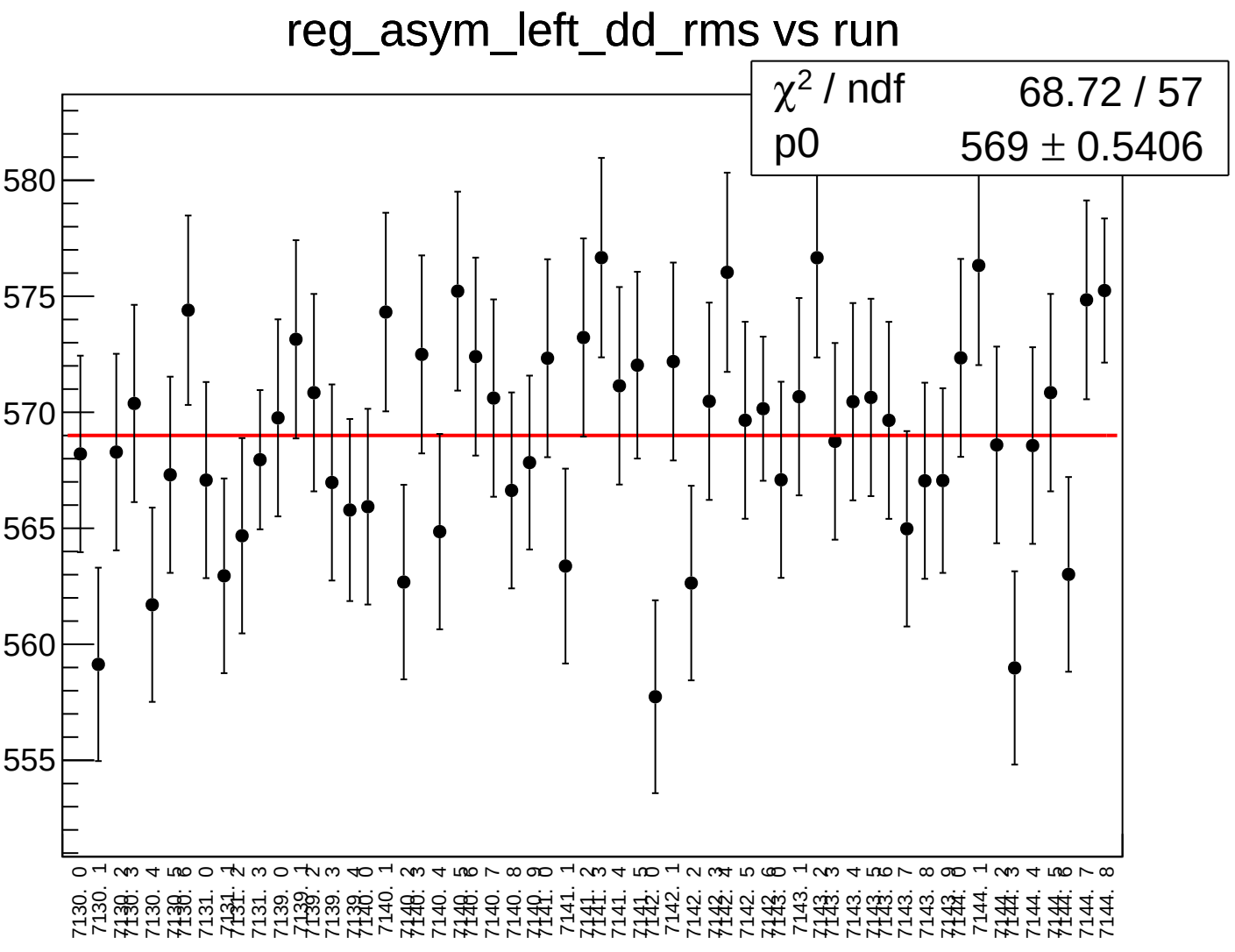

asym_left_avg_mean vs run
χ^2 / ndf 61.06 / 57
p0 −1220 ± 1169
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 58
Mean −108.6
Std Dev 135.4
2
1
0
−1
−2

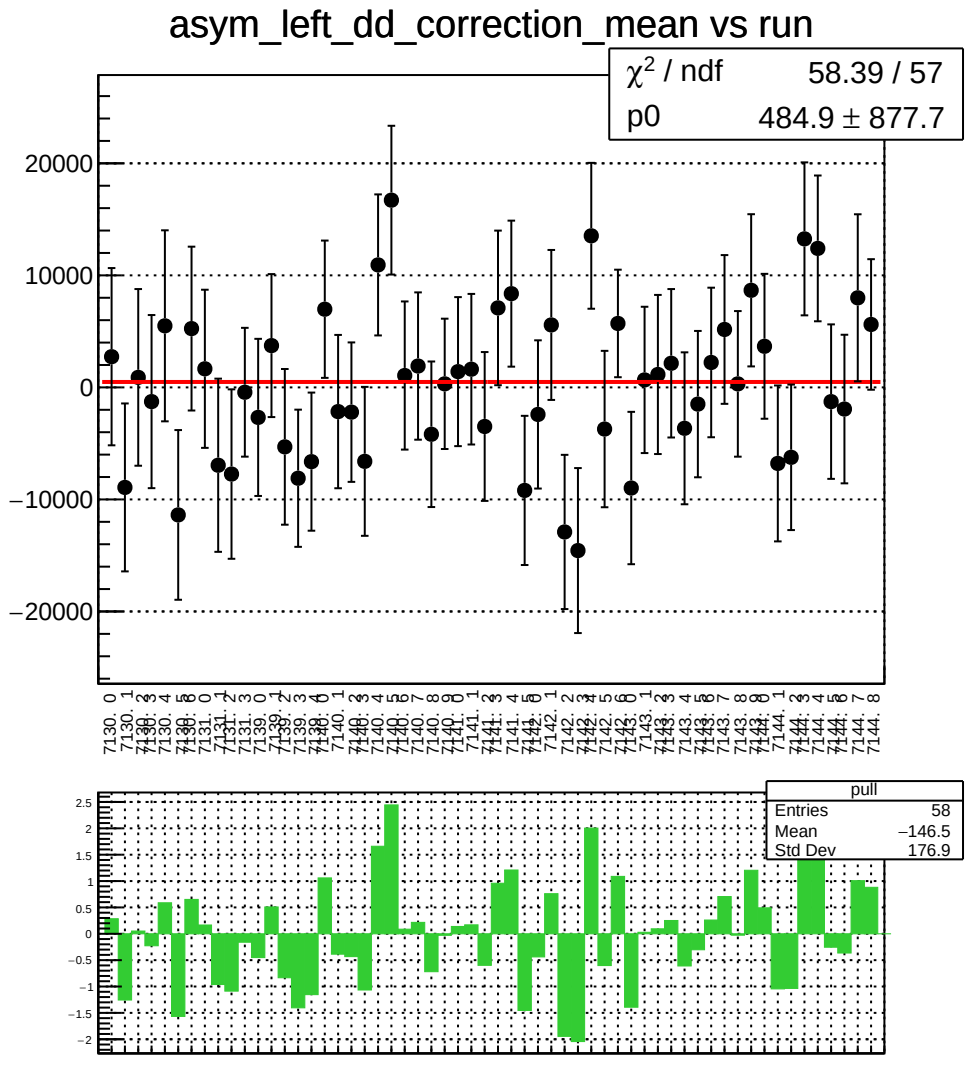

pull1D
Entries 58
Mean 0.005346
Std Dev 1.026
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

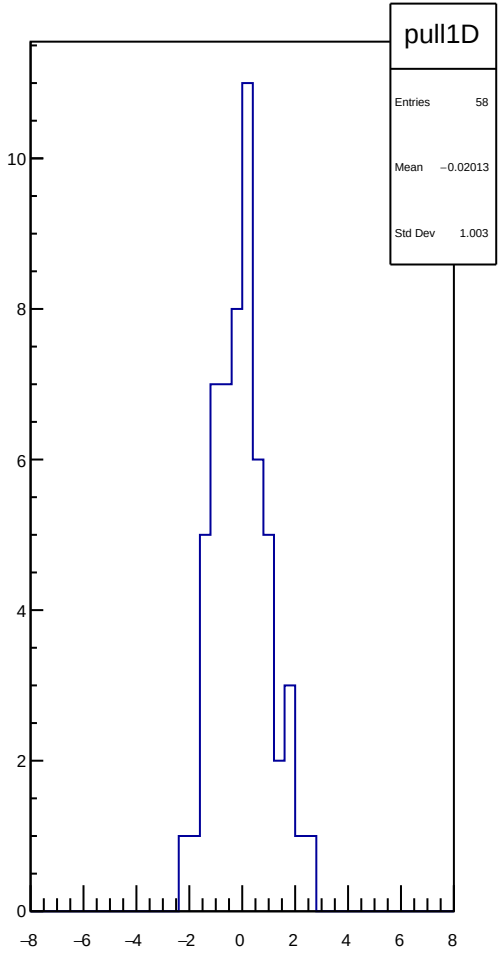

asym_left_avg_rms vs run
χ² / ndf 2202 / 57
p0 869.2 ± 0.8266
1000
950
900
850
800

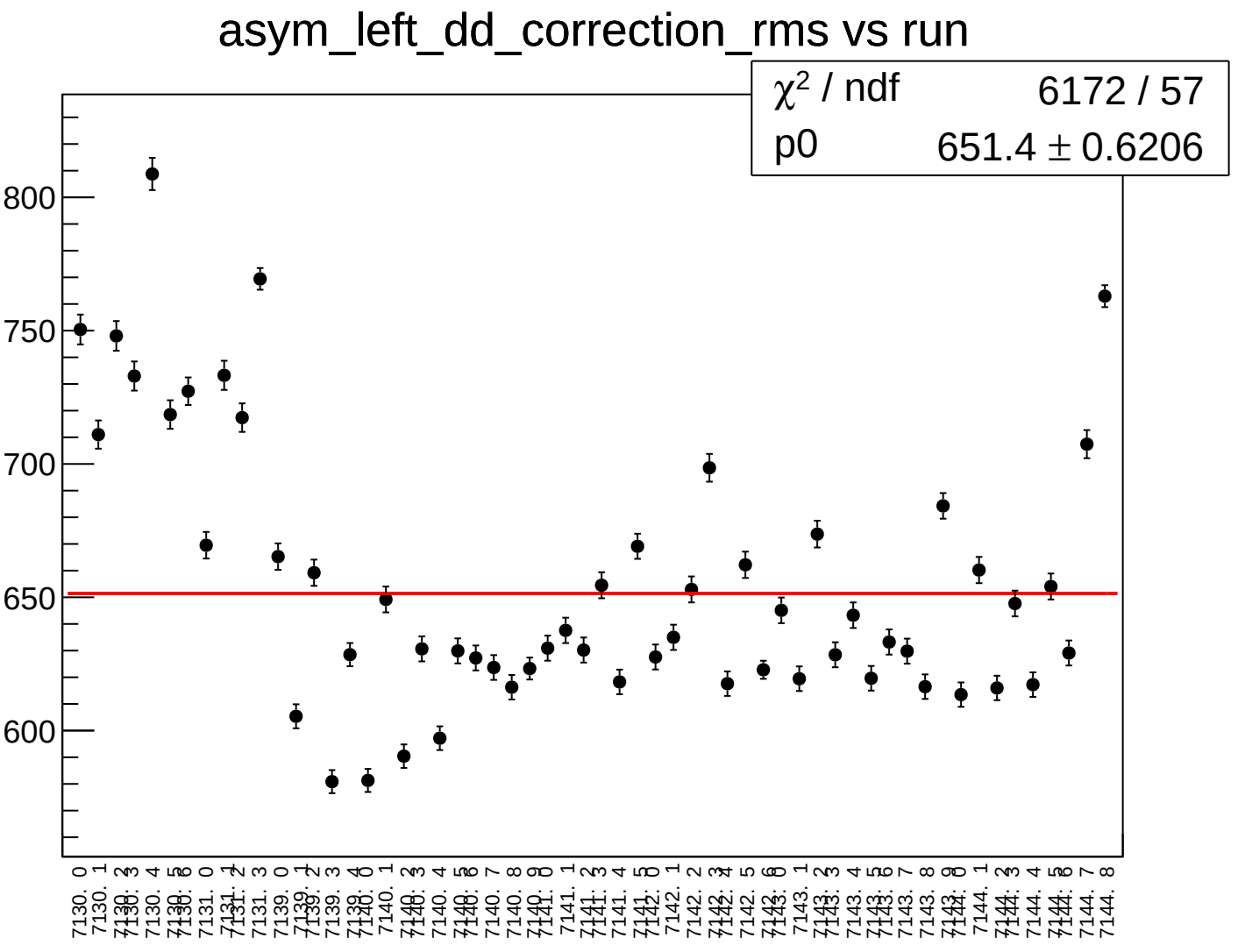

reg_asym_left_dd_mean vs run
χ² / ndf 68.38 / 57
p0 −607 ± 764.5
pull
Entries 58
Mean −139.7
Std Dev 172.5

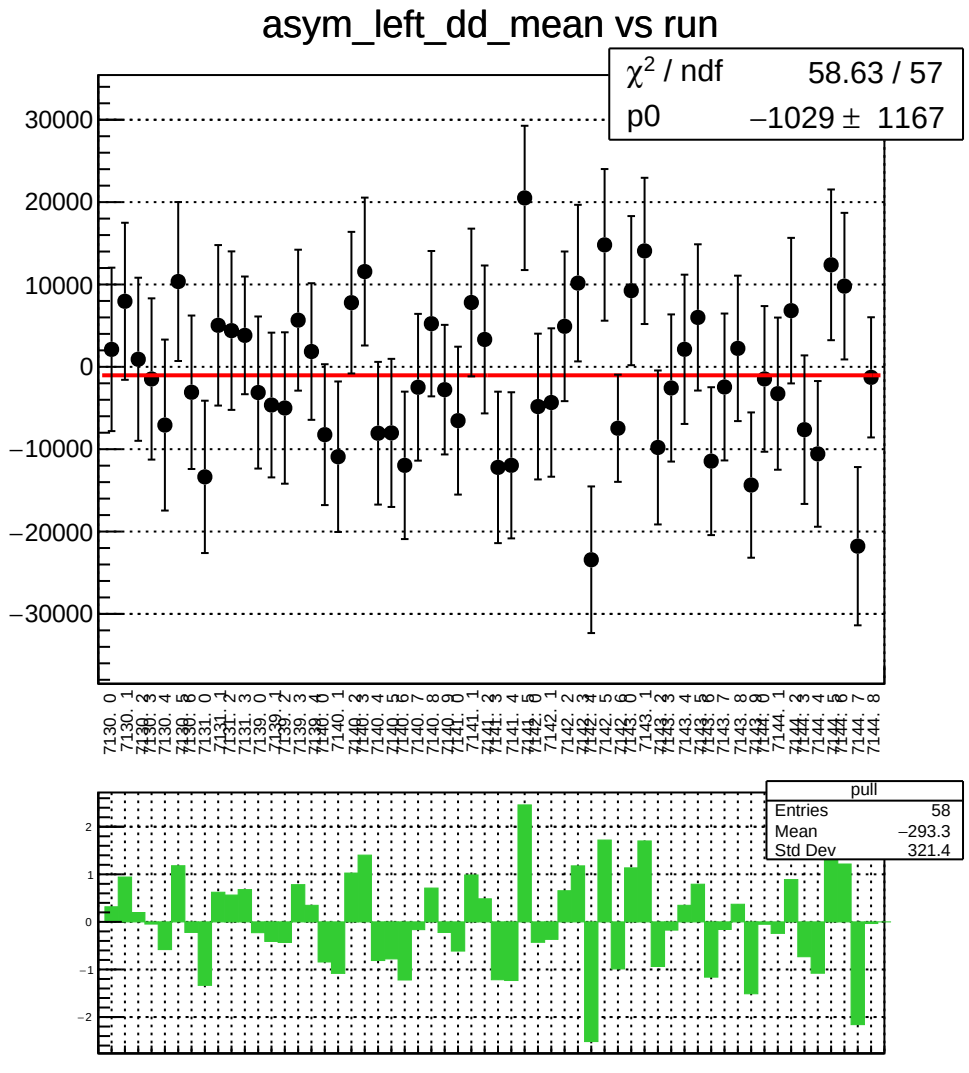

pull1D
Entries 58
Mean −0.01349
Std Dev 1.086

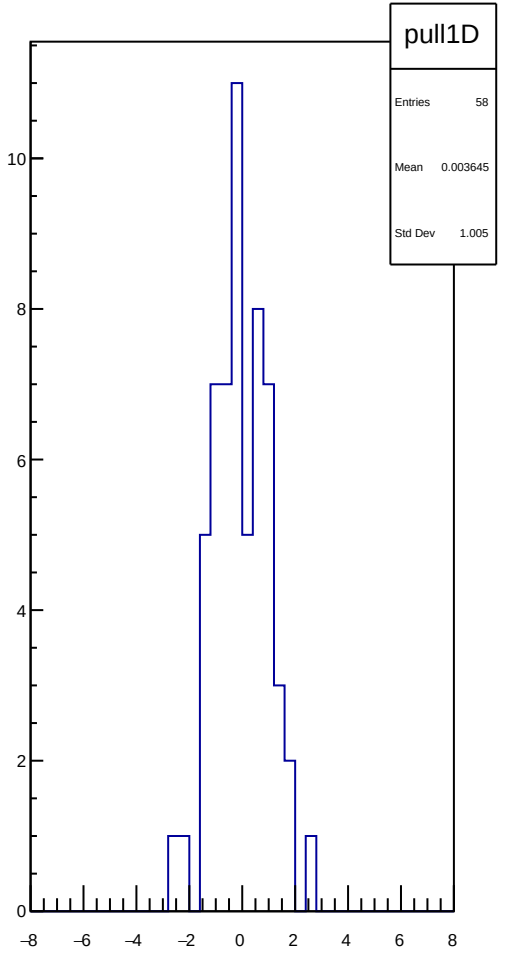

reg_asym_left_dd_rms vs run
χ² / ndf 68.72 / 57
p0 569 ± 0.5406
580
575
570
565
560
555

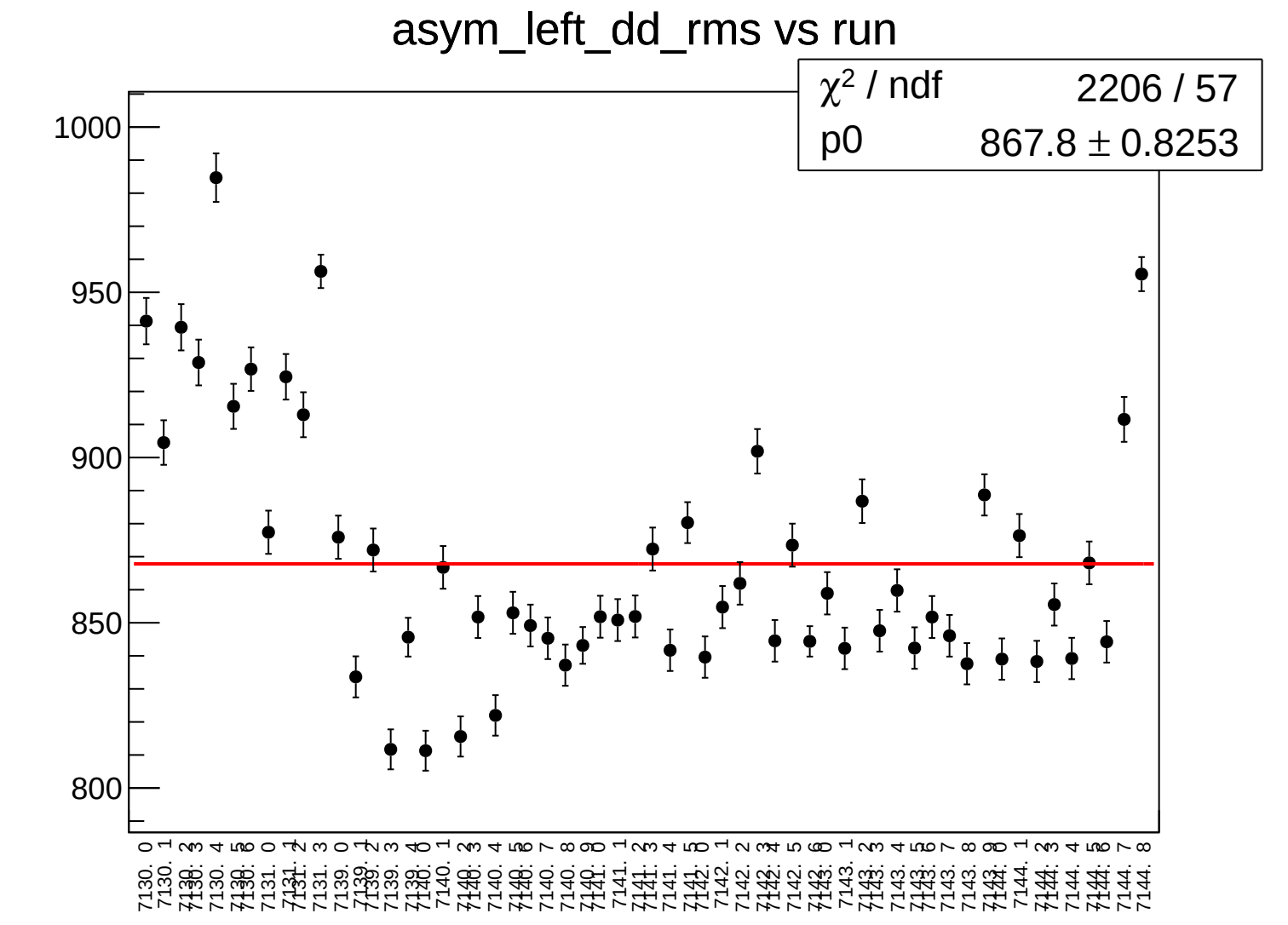

asym_left_dd_correction_mean vs run
χ² / ndf 58.39 / 57
p0 484.9 ± 877.7
20000
10000
0
−10000
−20000
pull
Entries 58
Mean −146.5
Std Dev 176.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

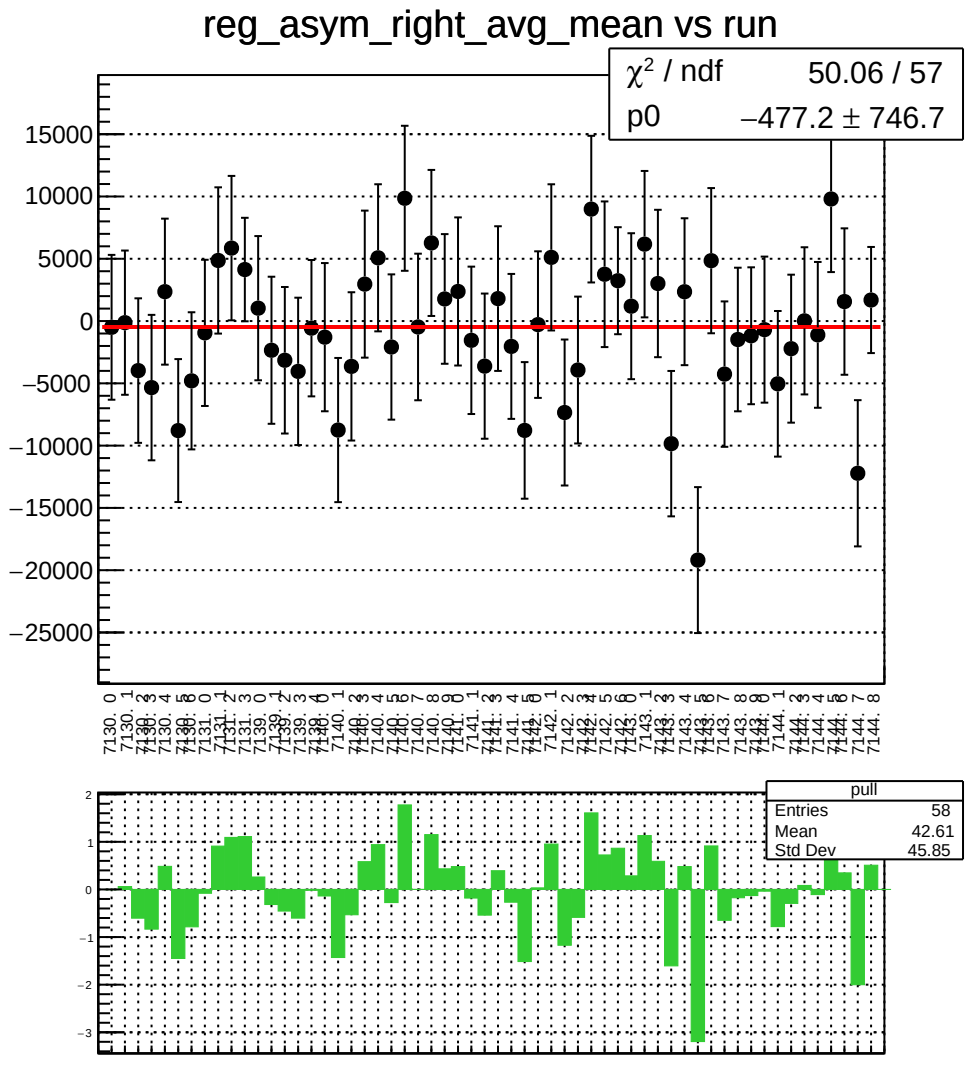

pull1D
Entries 58
Mean −0.02013
Std Dev 1.003
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

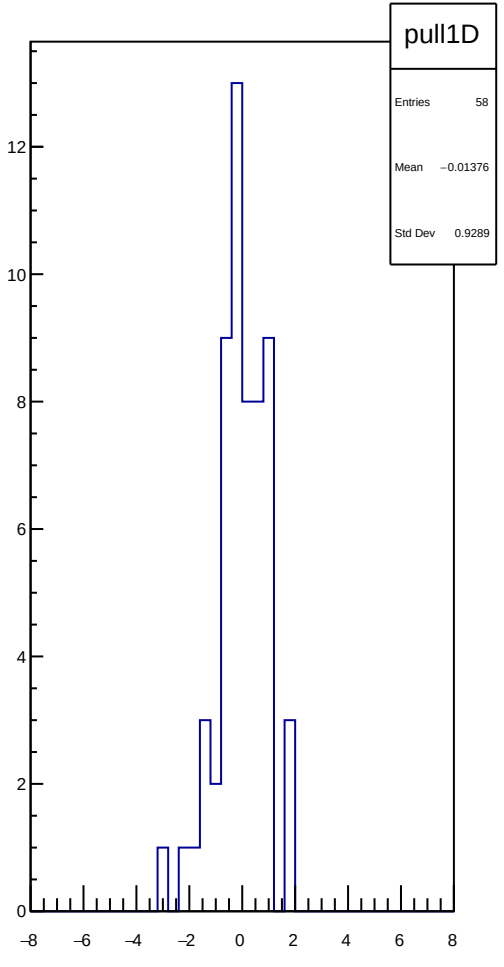

asym_left_dd_correction_rms vs run
χ² / ndf 6172 / 57
p0 651.4 ± 0.6206
800
750
700
650
600

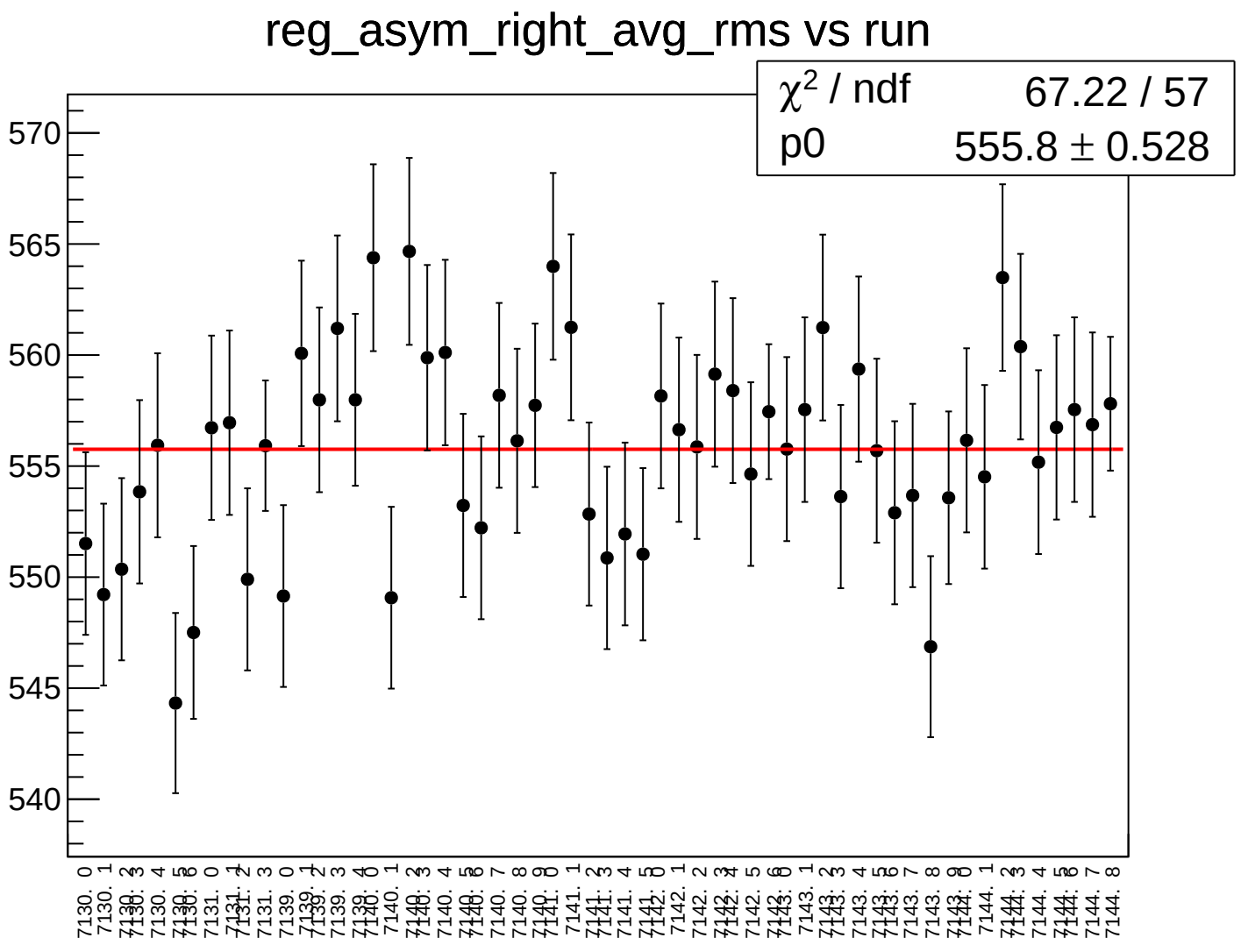

asym_left_dd_mean vs run
χ² / ndf 58.63 / 57
p0 −1029 ± 1167
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 58
Mean −293.3
Std Dev 321.4
2
1
0
−1
−2

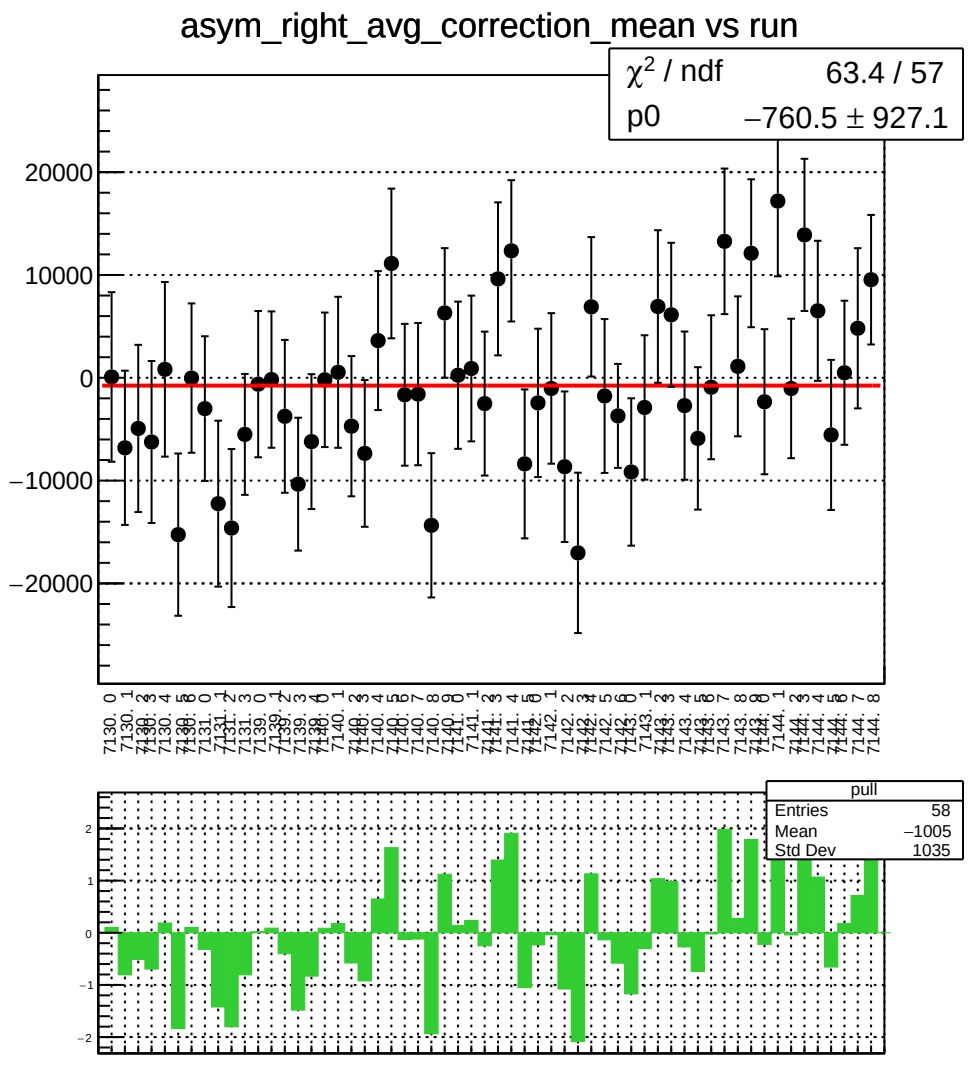

pull1D
Entries 58
Mean 0.003645
Std Dev 1.005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

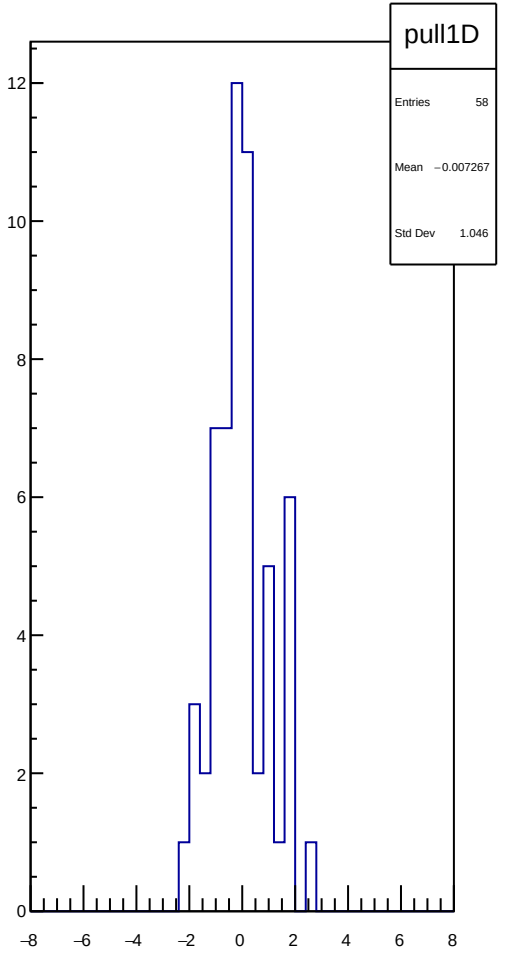

asym_left_dd_rms vs run
χ² / ndf 2206 / 57
p0 867.8 ± 0.8253
1000
950
900
850
800

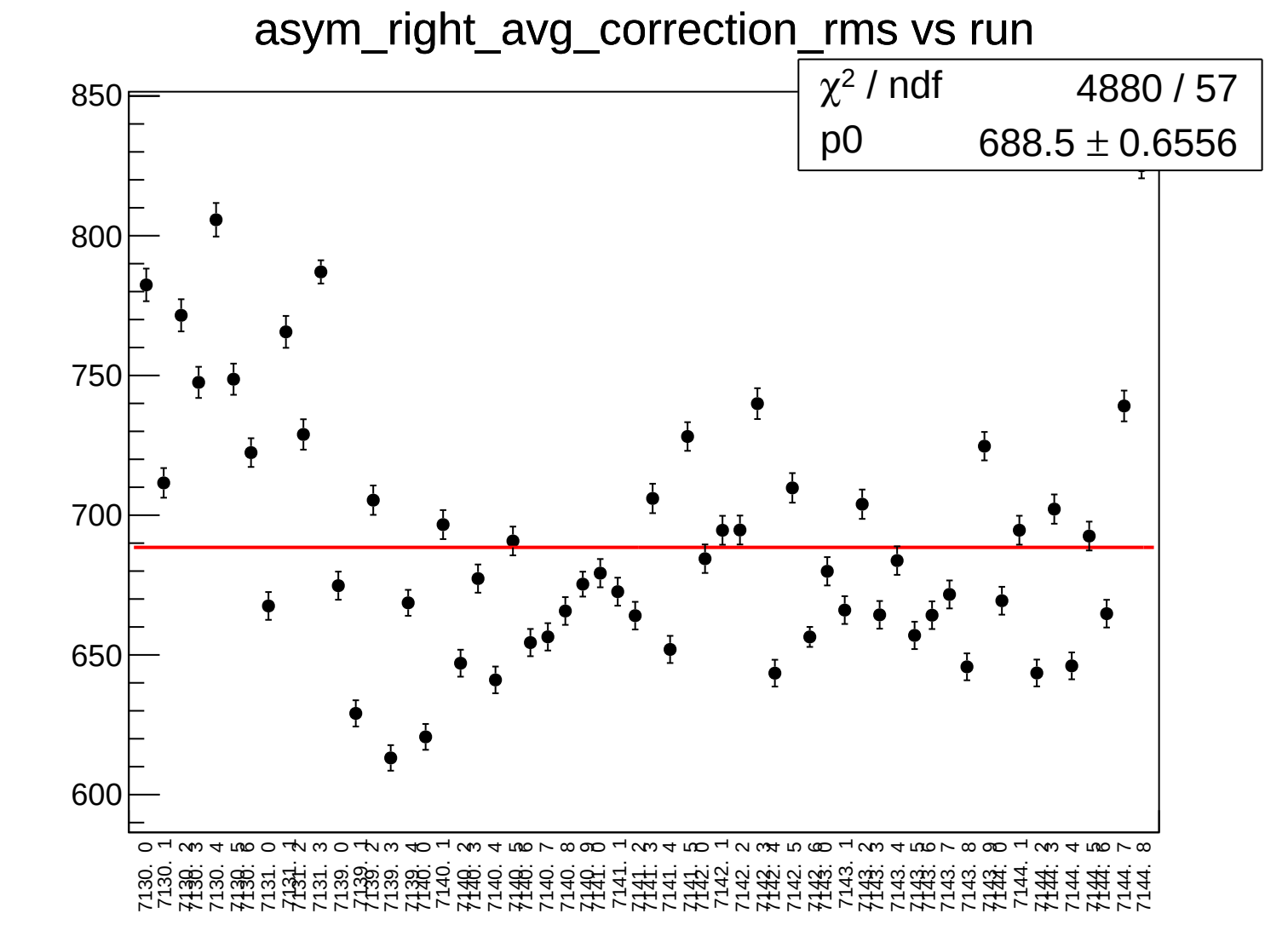

reg_asym_right_avg_mean vs run
χ² / ndf 50.06 / 57
p0 −477.2 ± 746.7
pull
Entries 58
Mean 42.61
Std Dev 45.85

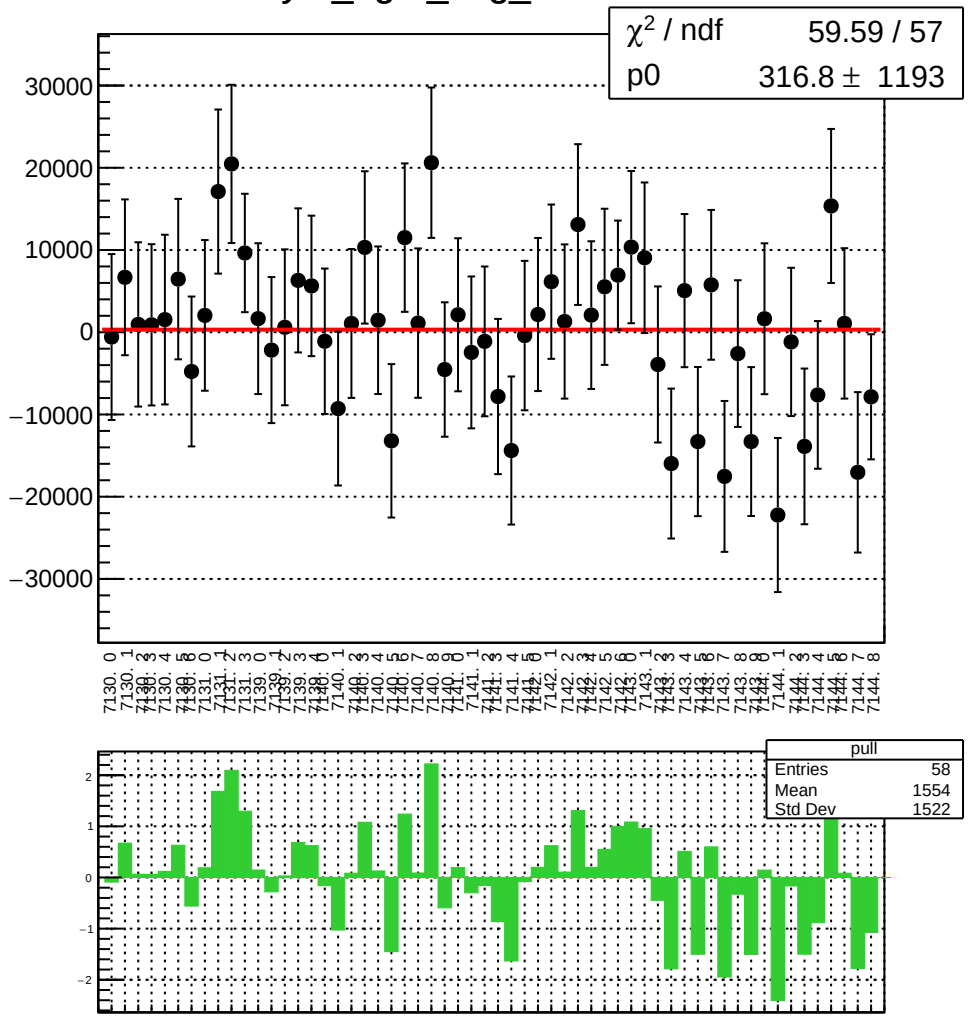

pull1D
Entries 58
Mean −0.01376
Std Dev 0.9289

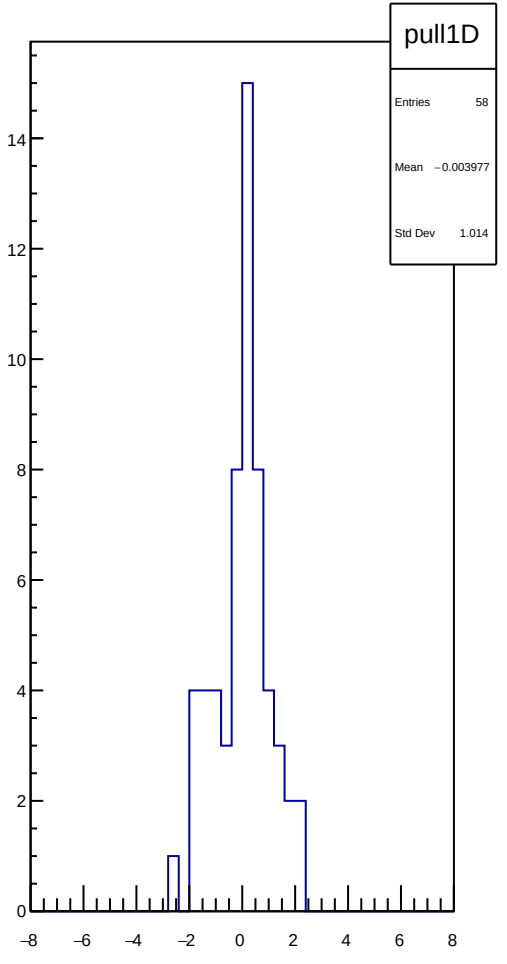

reg_asym_right_avg_rms vs run
χ^2 / ndf 67.22 / 57
p0 555.8 ± 0.528
570
565
560
555
550
545
540

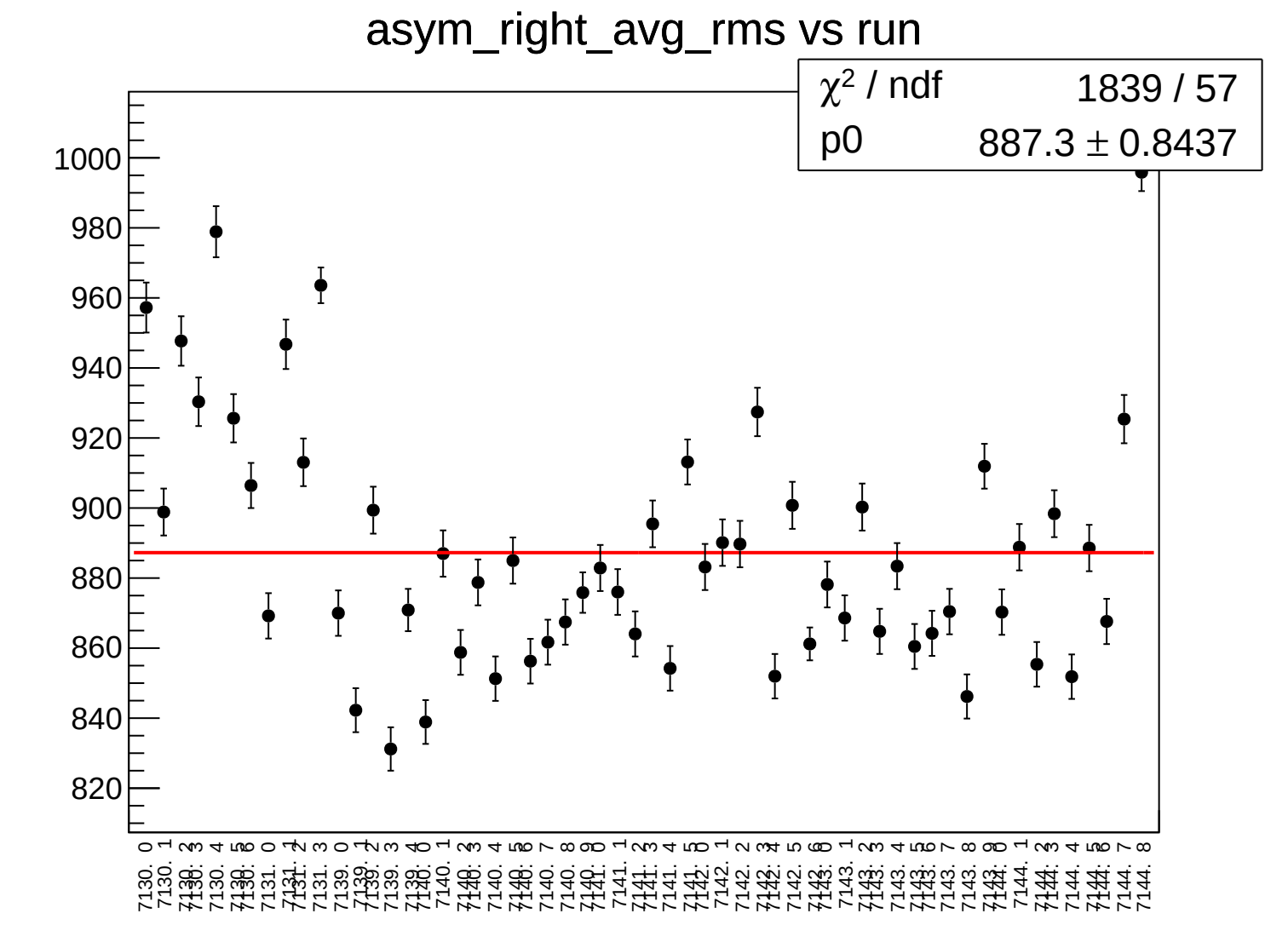

asym_right_avg_correction_mean vs run
χ² / ndf 63.4 / 57
p0 −760.5 ± 927.1
20000
10000
0
−10000
−20000
pull
Entries 58
Mean −1005
Std Dev 1035
2
1
0
−1
−2

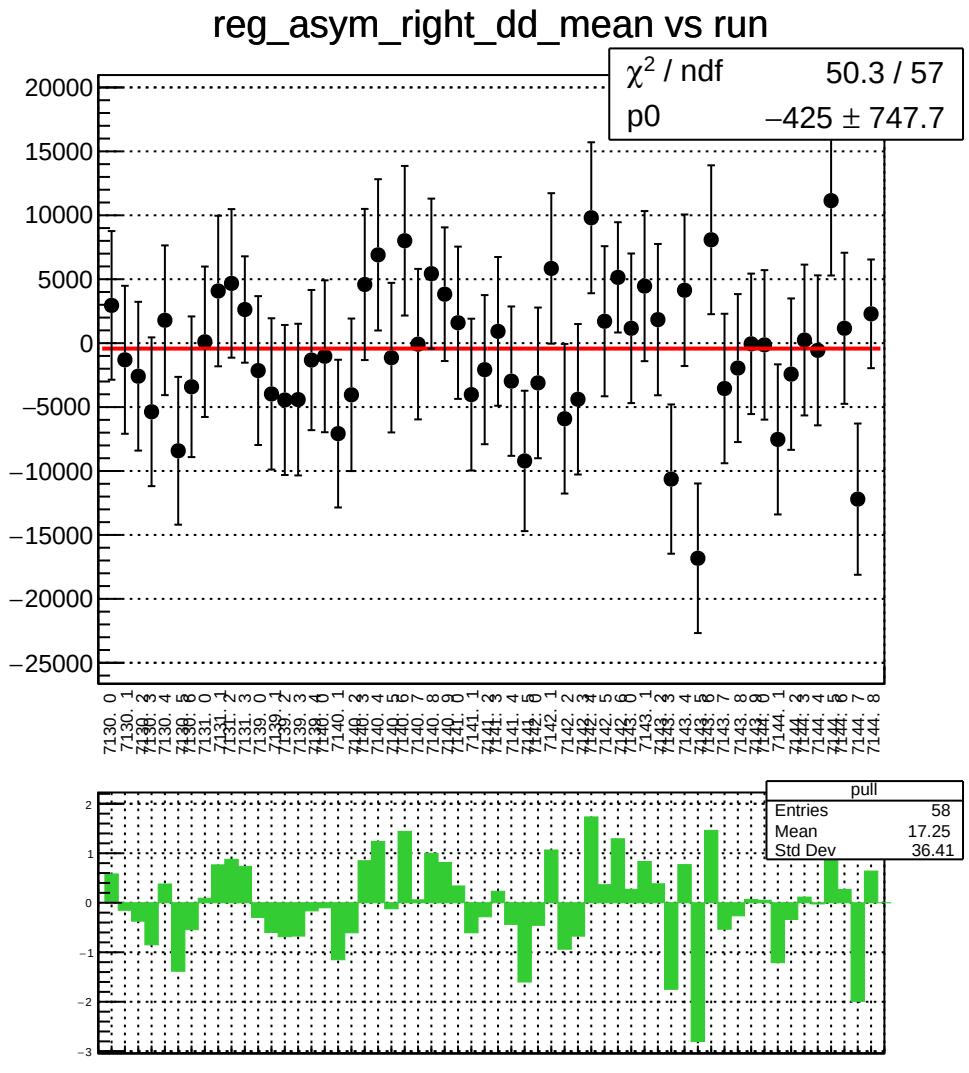

pull1D
Entries 58
Mean −0.007267
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

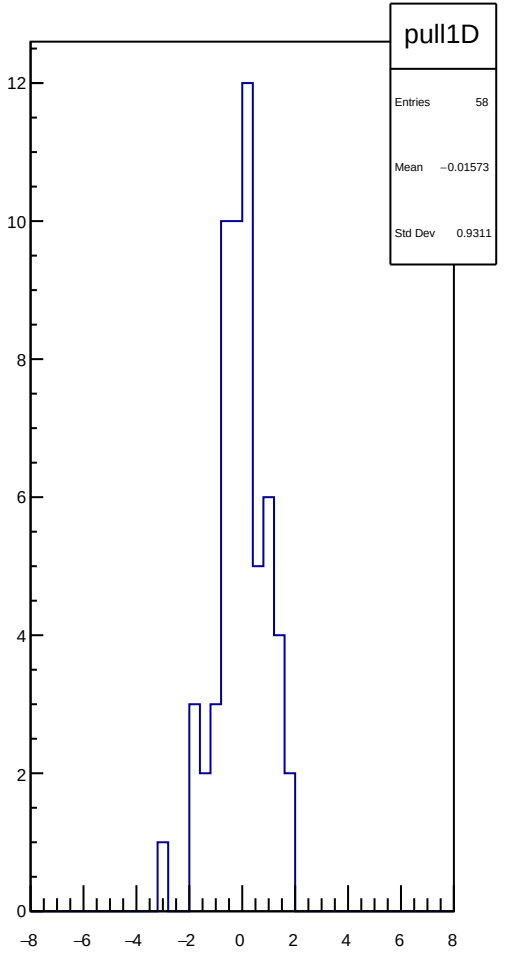

asym_right_avg_correction_rms vs run
χ² / ndf 4880 / 57
p0 688.5 ± 0.6556
850
800
750
700
650
600

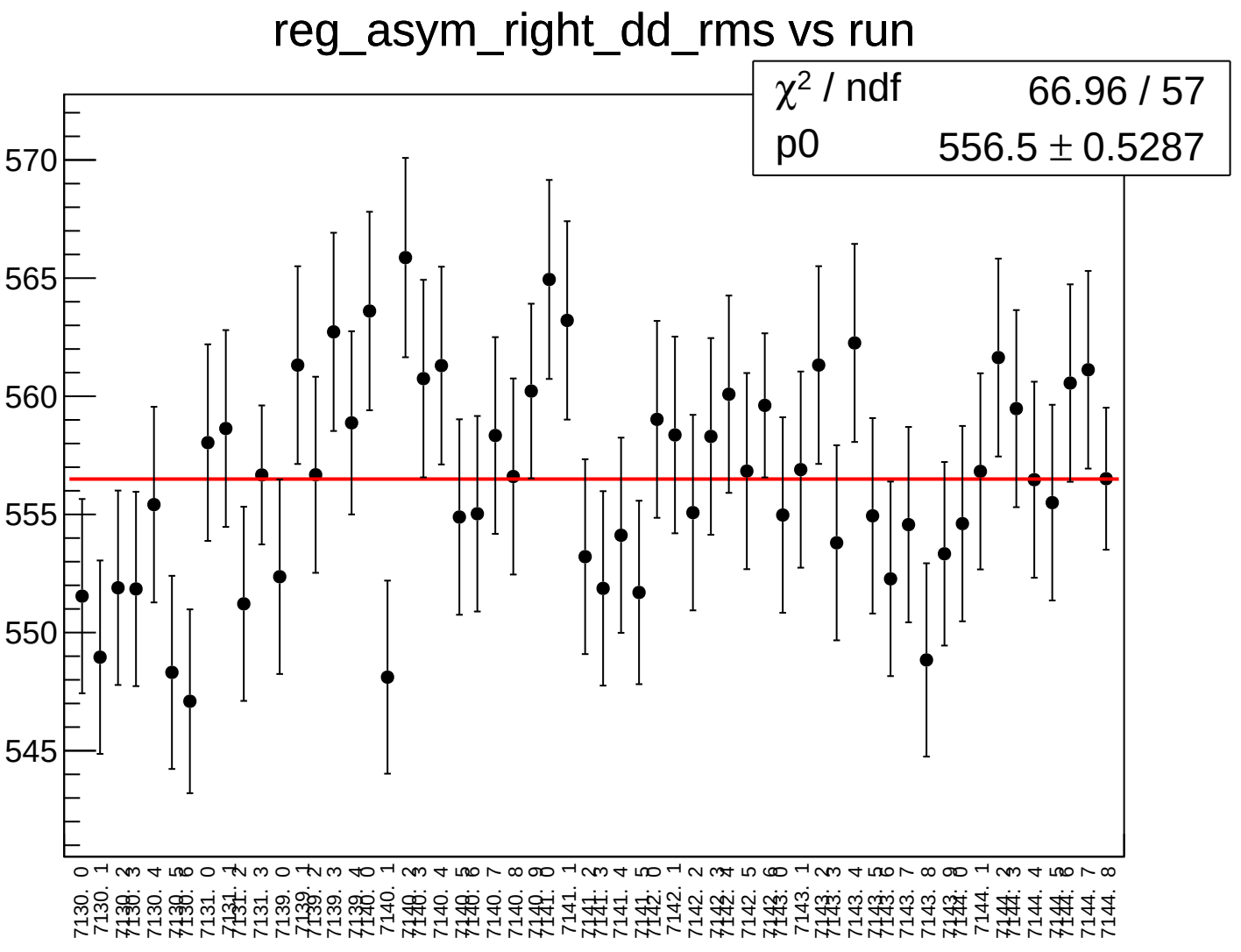

asym_right_avg_mean vs run
χ² / ndf 59.59 / 57
p0 316.8 ± 1193
pull
Entries 58
Mean 1554
Std Dev 1522

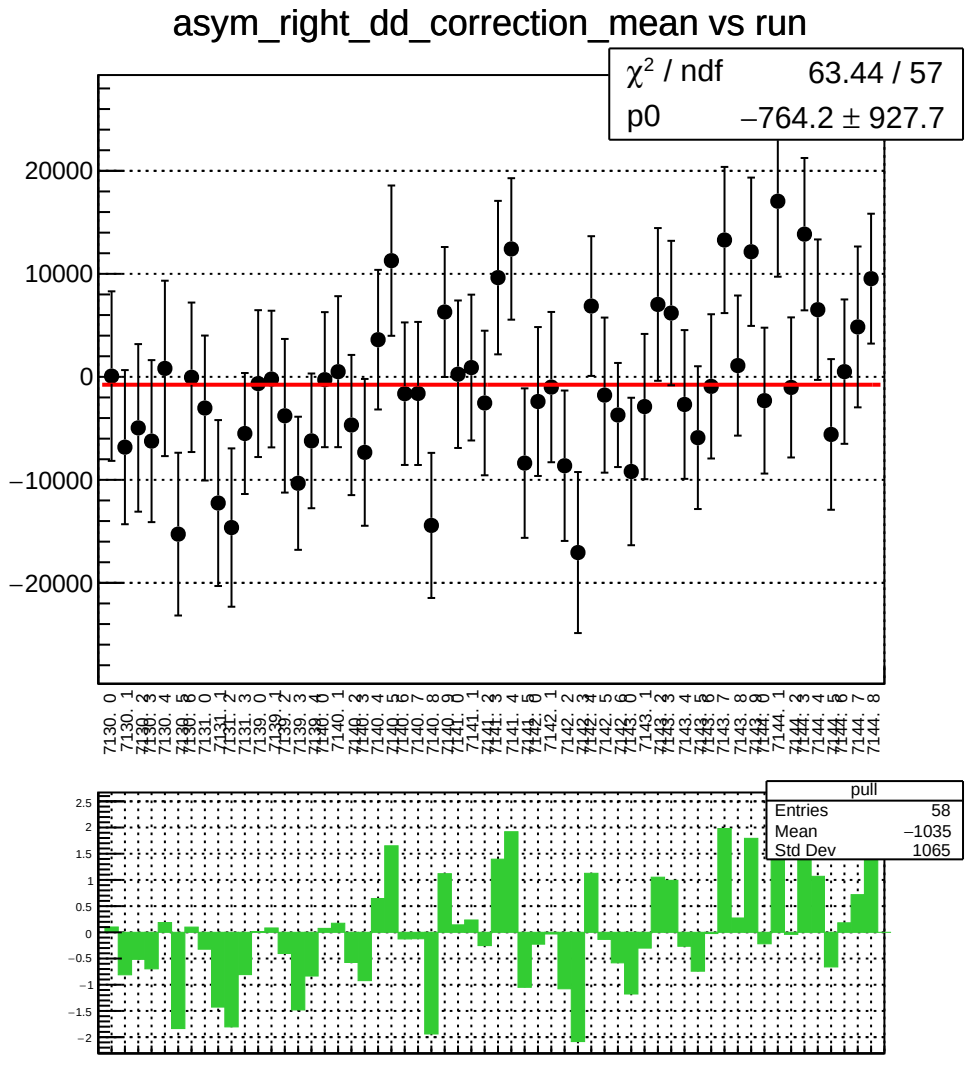

pull1D
Entries 58
Mean −0.003977
Std Dev 1.014

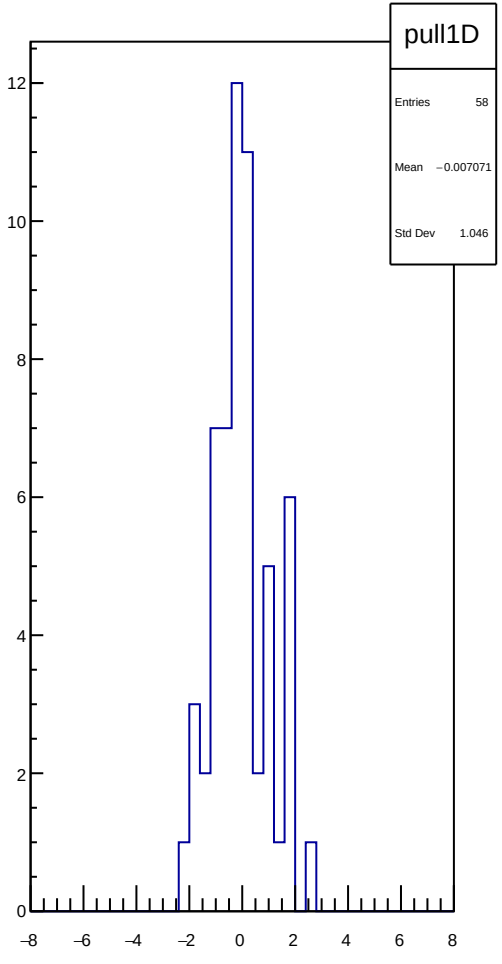

asym_right_avg_rms vs run
χ² / ndf 1839 / 57
p0 887.3 ± 0.8437
1000
980
960
940
920
900
880
860
840
820

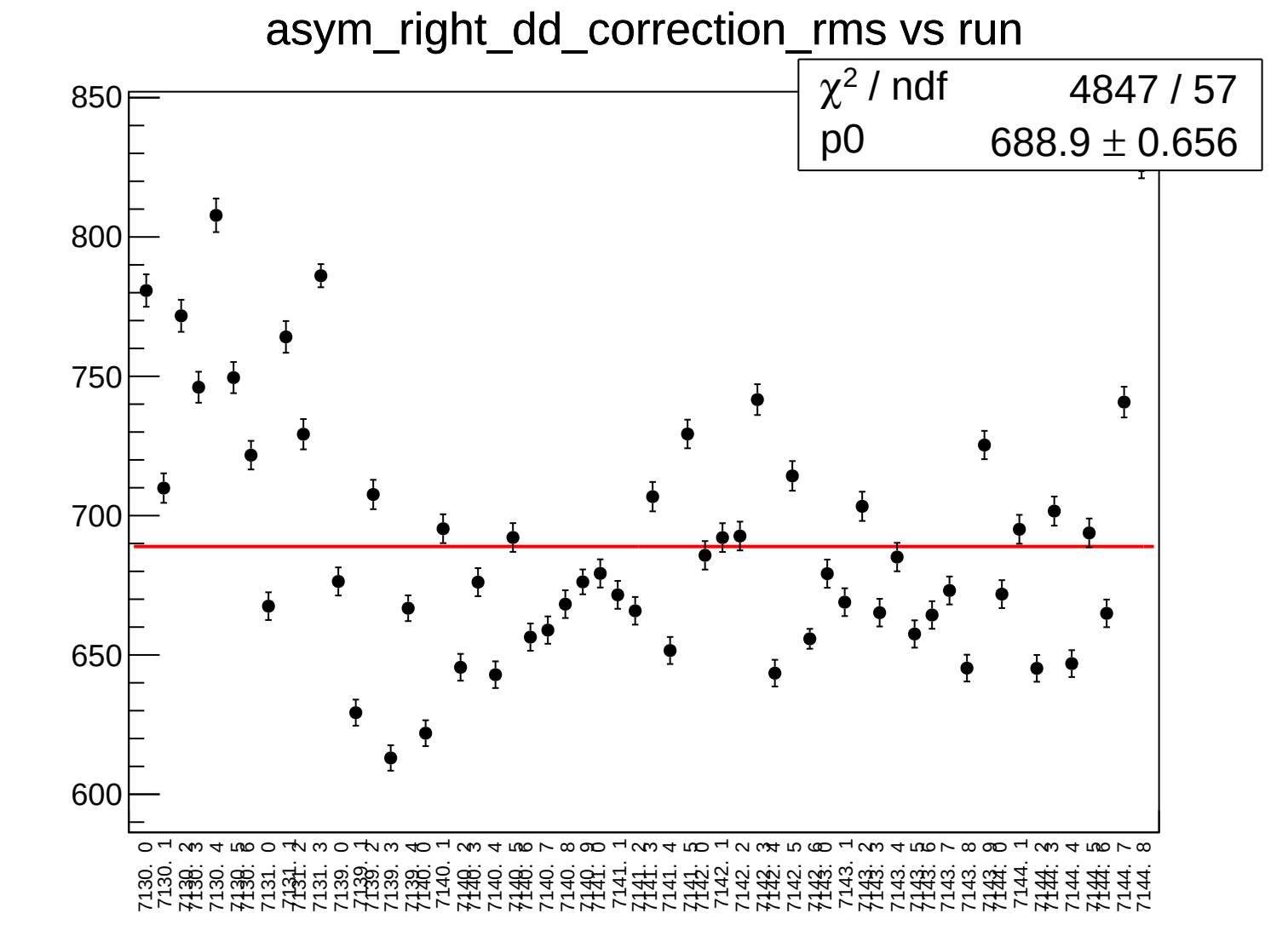

reg_asym_right_dd_mean vs run
χ² / ndf 50.3 / 57
p0 −425 ± 747.7
pull
Entries 58
Mean 17.25
Std Dev 36.41

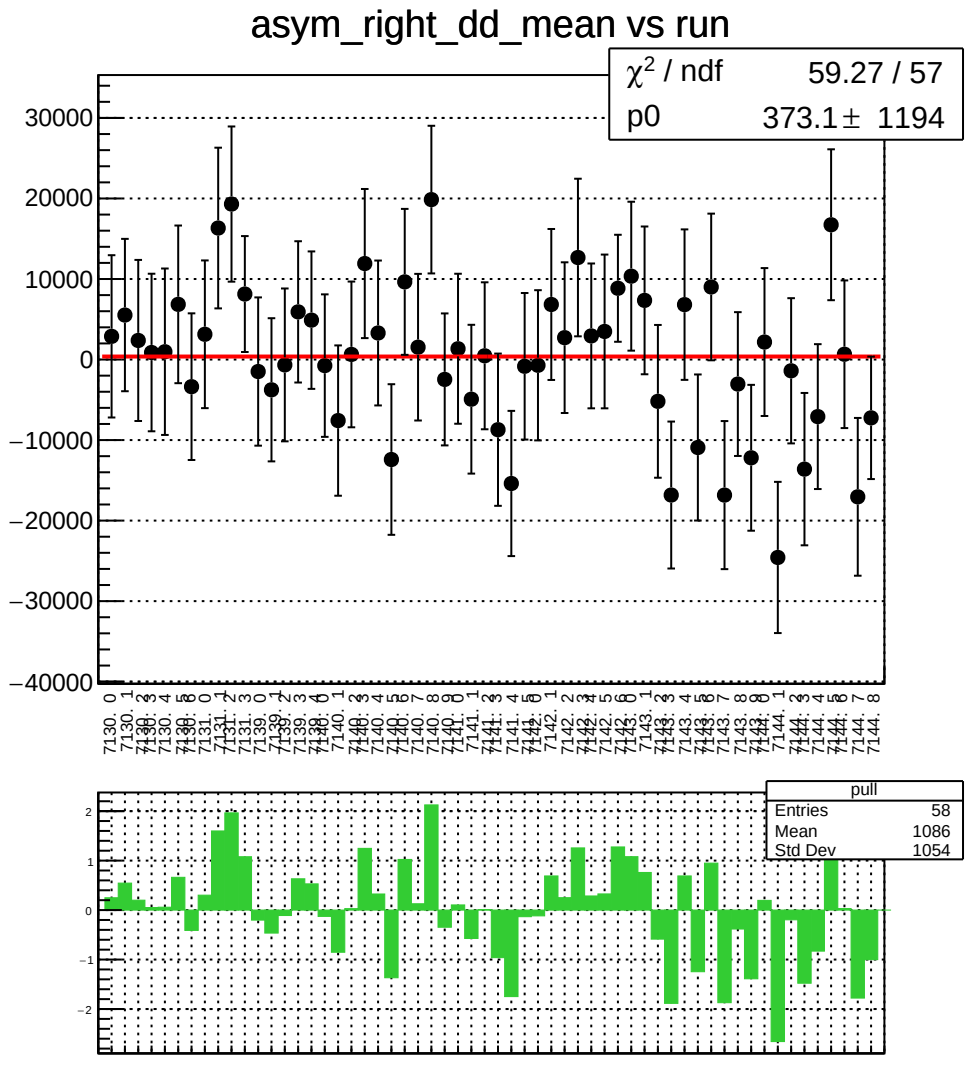

pull1D
Entries 58
Mean −0.01573
Std Dev 0.9311

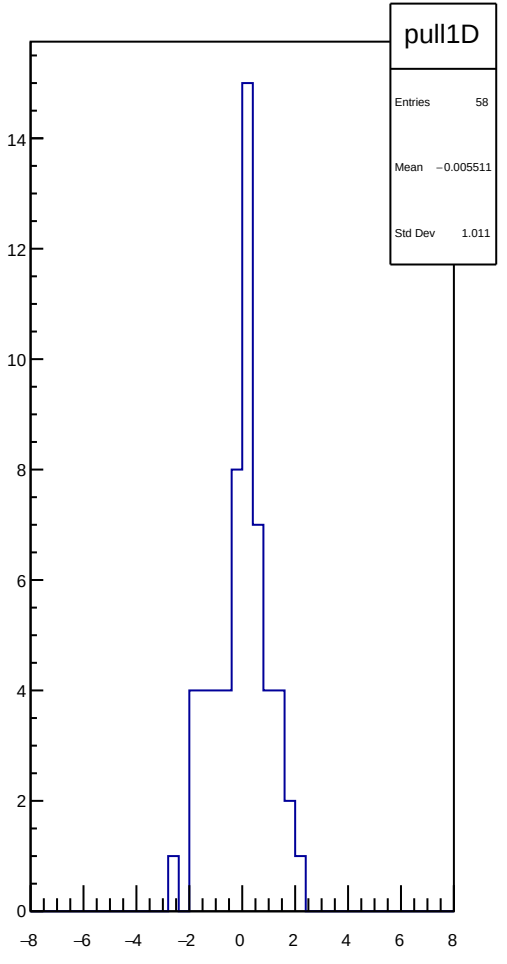

reg_asym_right_dd_rms vs run
χ² / ndf 66.96 / 57
p0 556.5 ± 0.5287
570
565
560
555
550
545

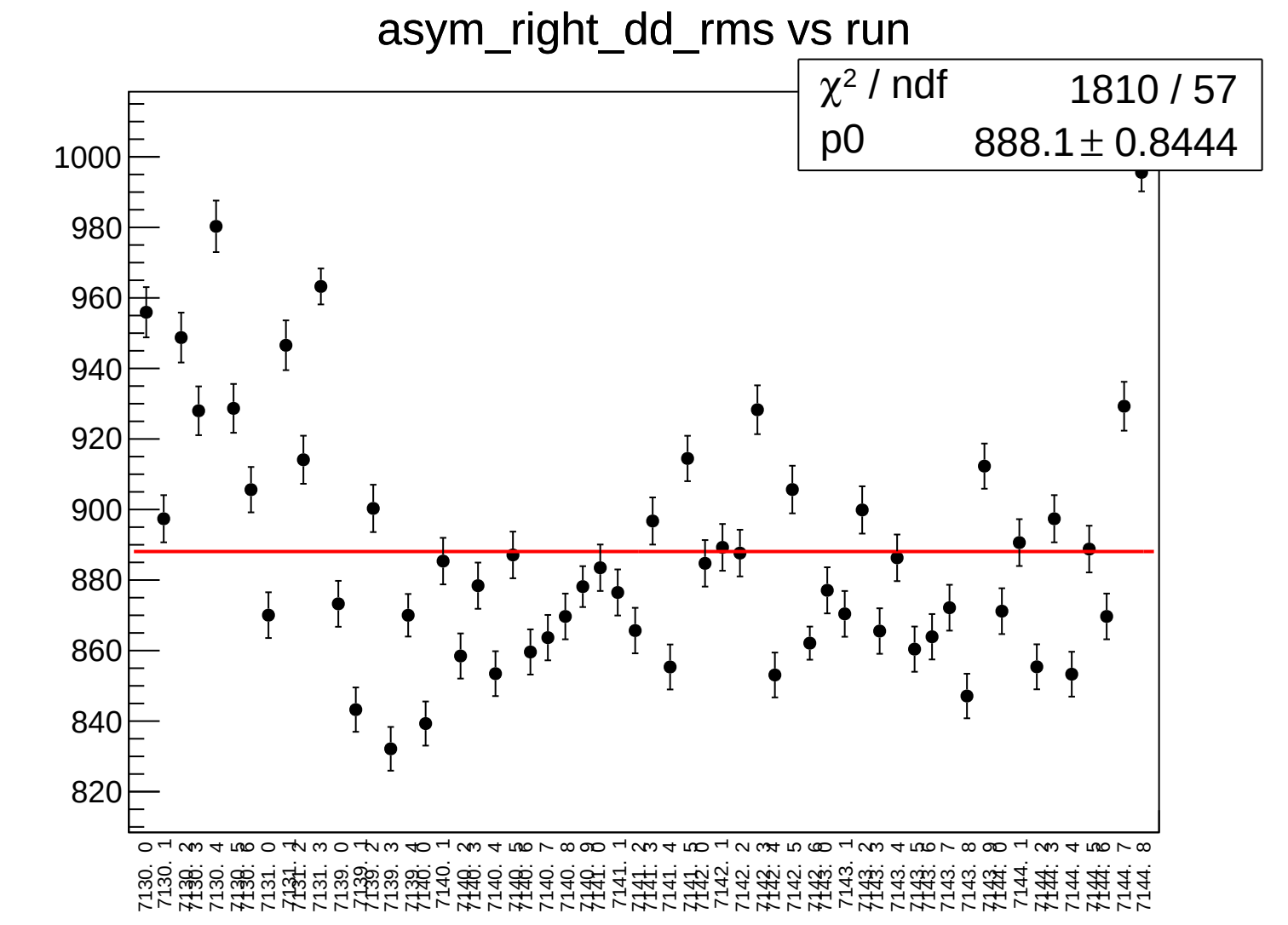

asym_right_dd_correction_mean vs run
χ² / ndf 63.44 / 57
p0 −764.2 ± 927.7
20000
10000
0
−10000
−20000
pull
Entries 58
Mean −1035
Std Dev 1065
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

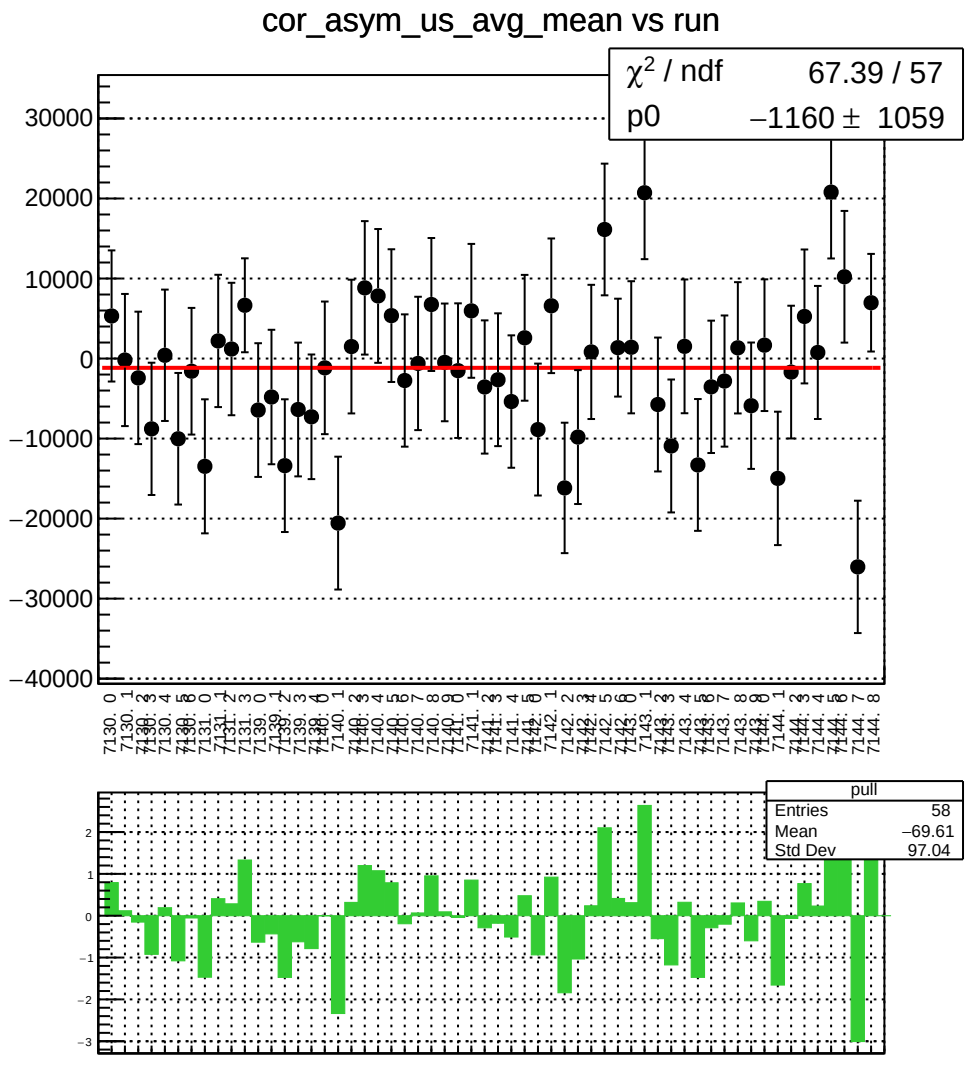

pull1D
Entries 58
Mean −0.007071
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

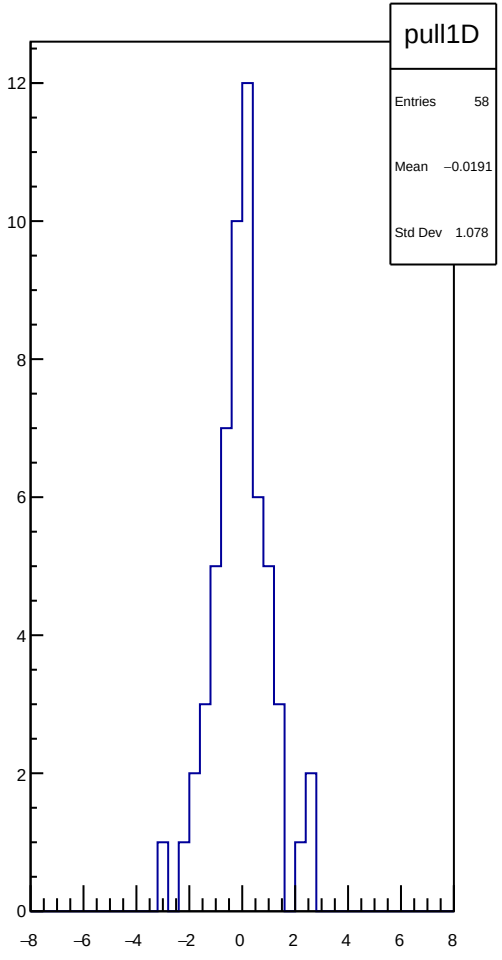

asym_right_dd_correction_rms vs run
χ² / ndf 4847 / 57
p0 688.9 ± 0.656
850
800
750
700
650
600

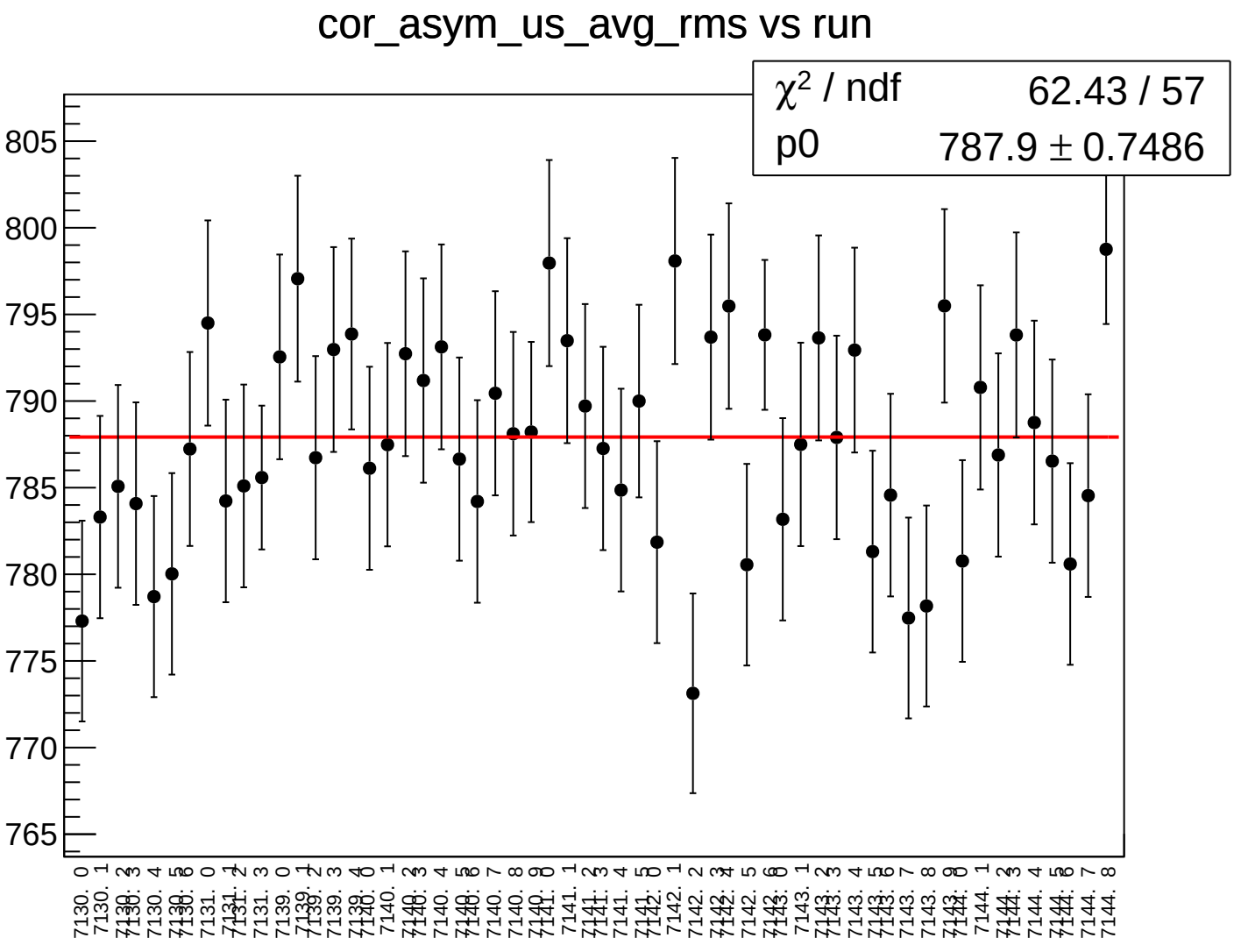

asym_right_dd_mean vs run
χ^2 / ndf 59.27 / 57
p0 373.1 ± 1194
pull
Entries 58
Mean 1086
Std Dev 1054

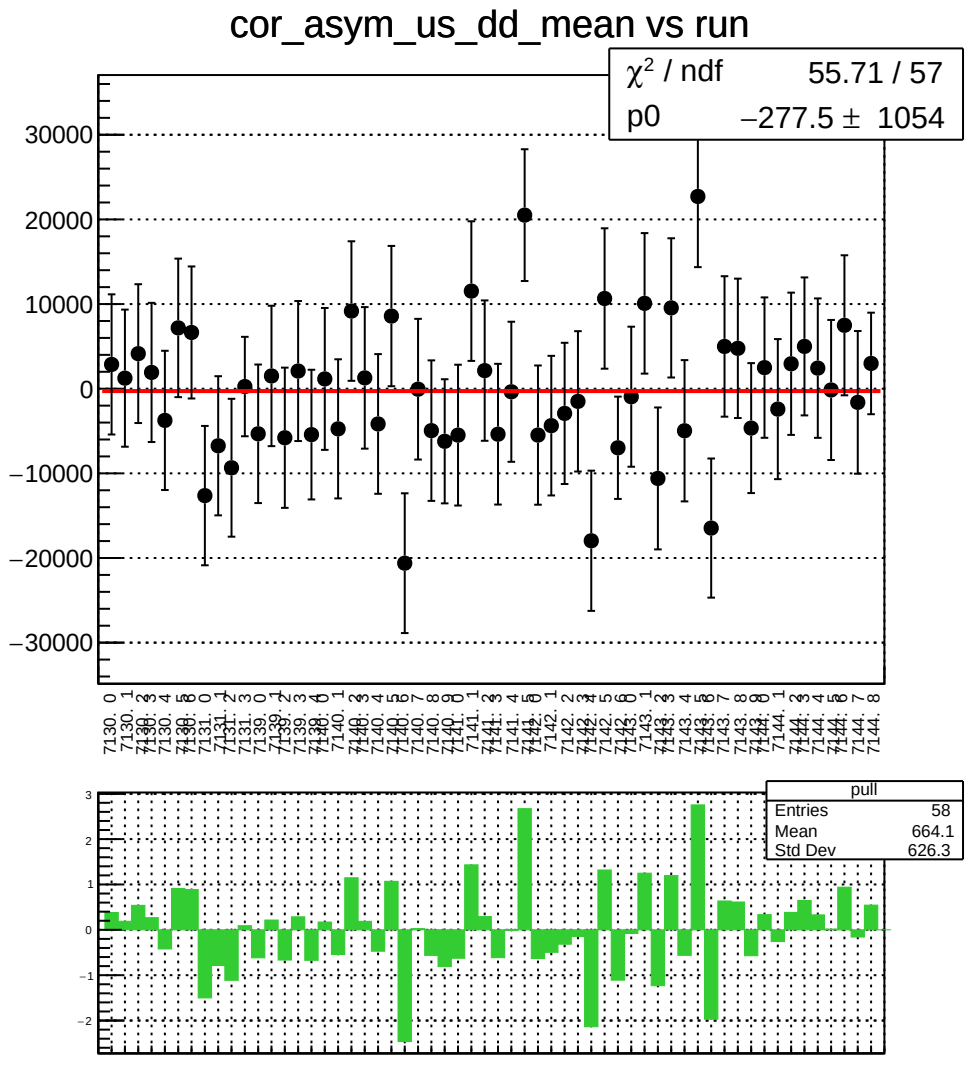

pull1D
Entries 58
Mean −0.005511
Std Dev 1.011

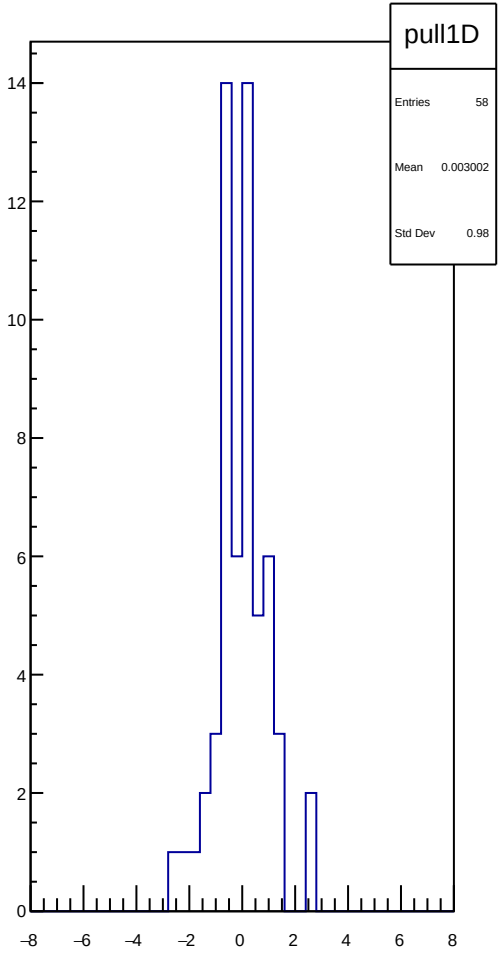

asym_right_dd_rms vs run
χ² / ndf 1810 / 57
p0 888.1 ± 0.8444
1000
980
960
940
920
900
880
860
840
820

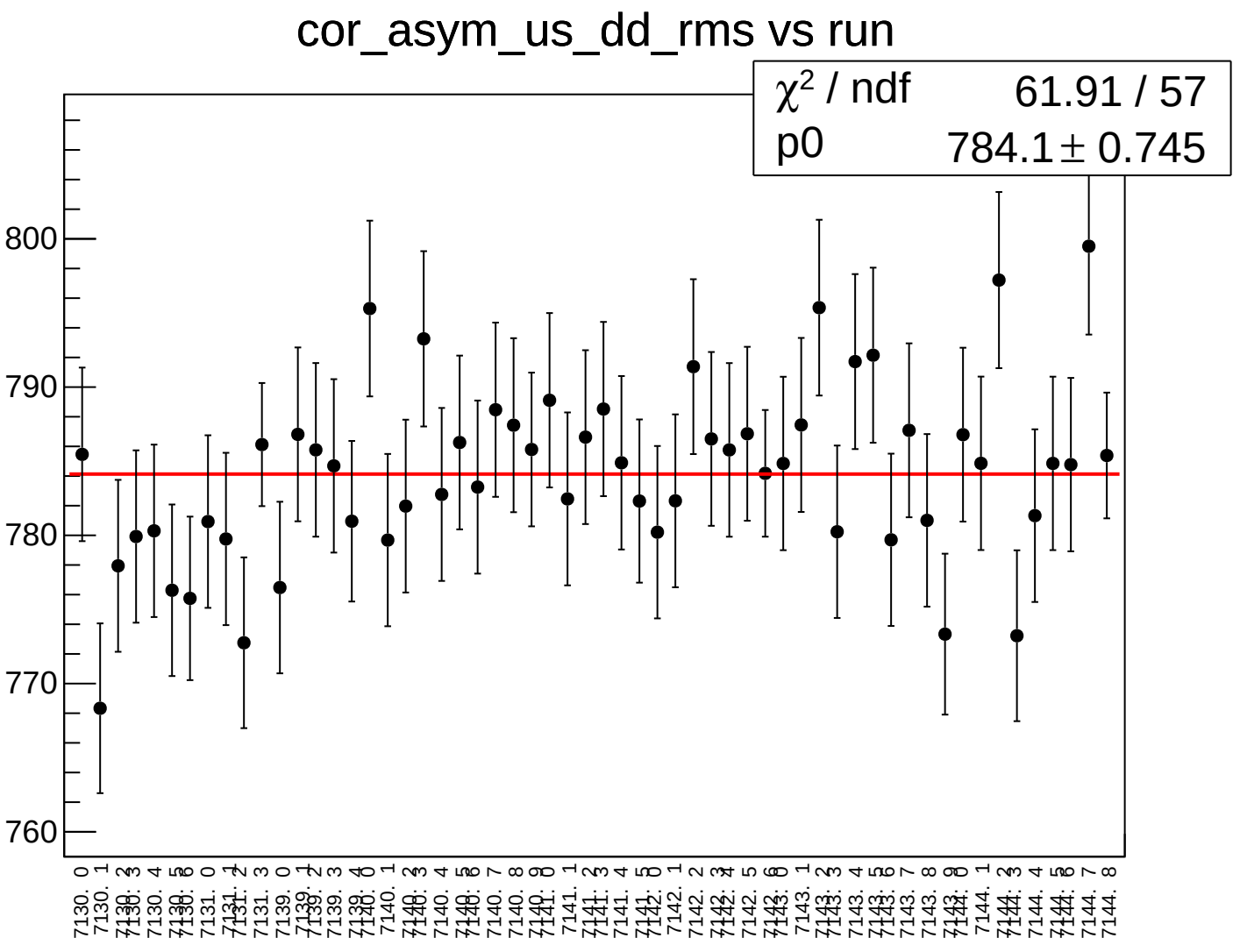

cor_asym_us_avg_mean vs run
χ² / ndf 67.39 / 57
p0 −1160 ± 1059
pull
Entries 58
Mean −69.61
Std Dev 97.04

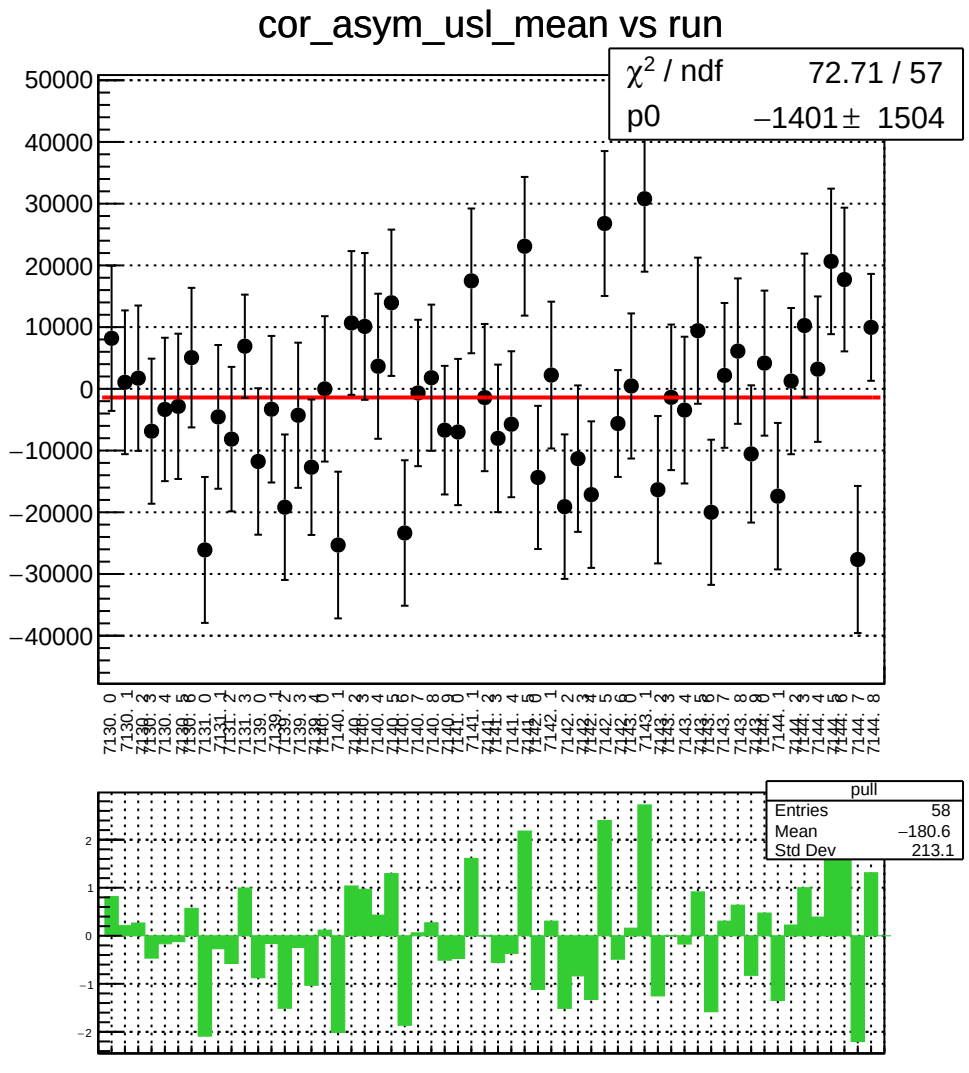

pull1D
Entries 58
Mean −0.0191
Std Dev 1.078

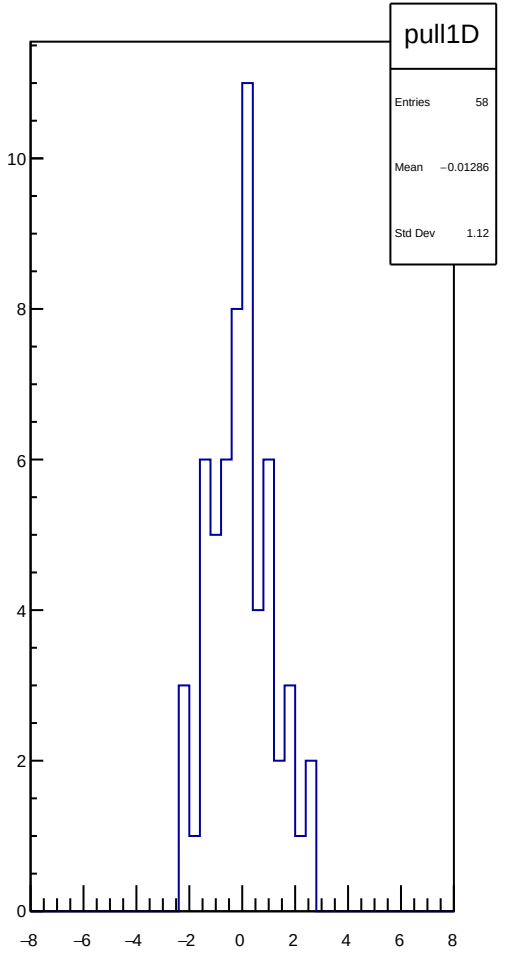

cor_asym_us_avg_rms vs run
χ² / ndf 62.43 / 57
p0 787.9 ± 0.7486
805
800
795
790
785
780
775
770
765

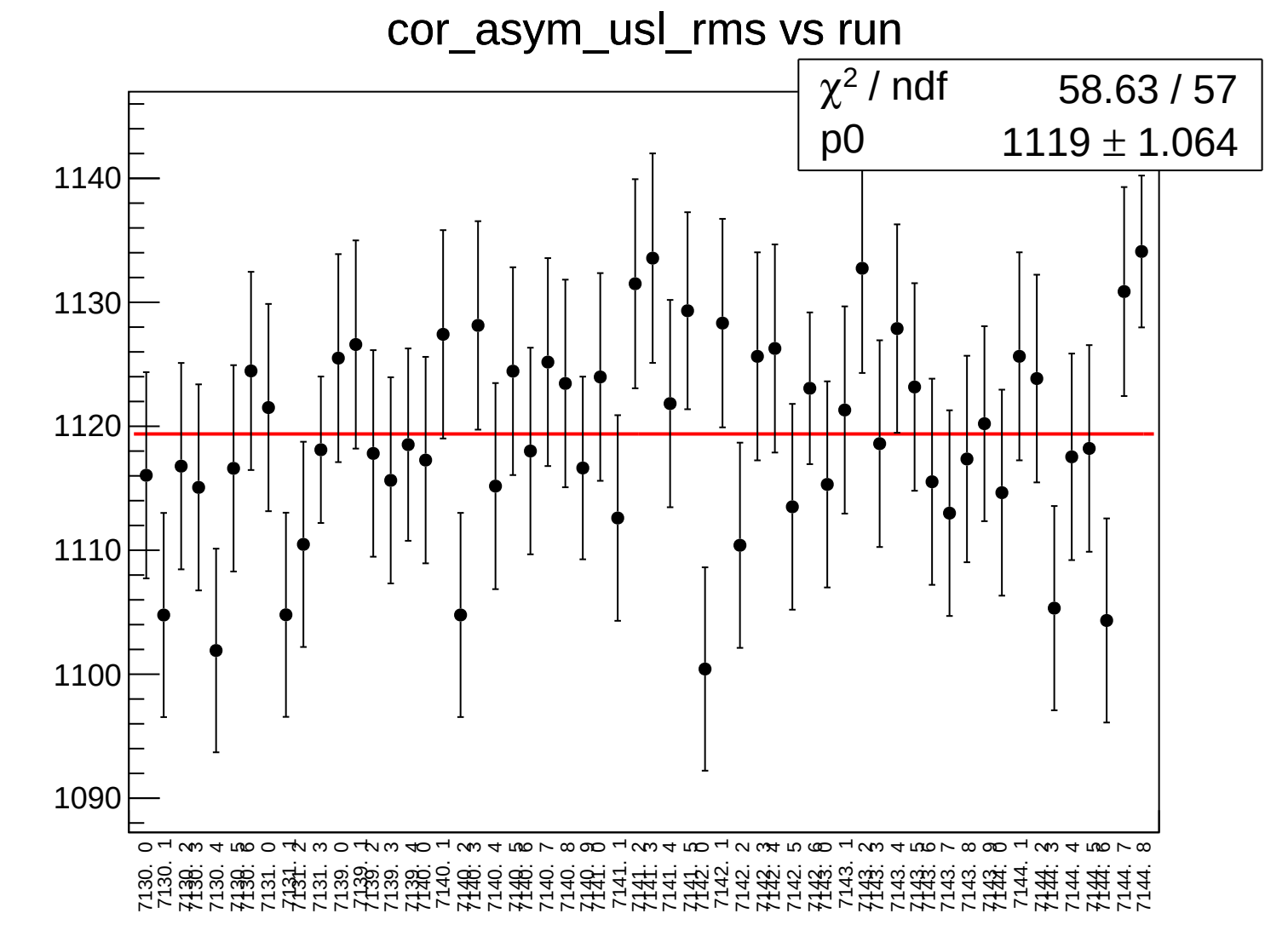

cor_asym_us_dd_mean vs run
χ² / ndf 55.71 / 57
p0 −277.5 ± 1054
pull
Entries 58
Mean 664.1
Std Dev 626.3

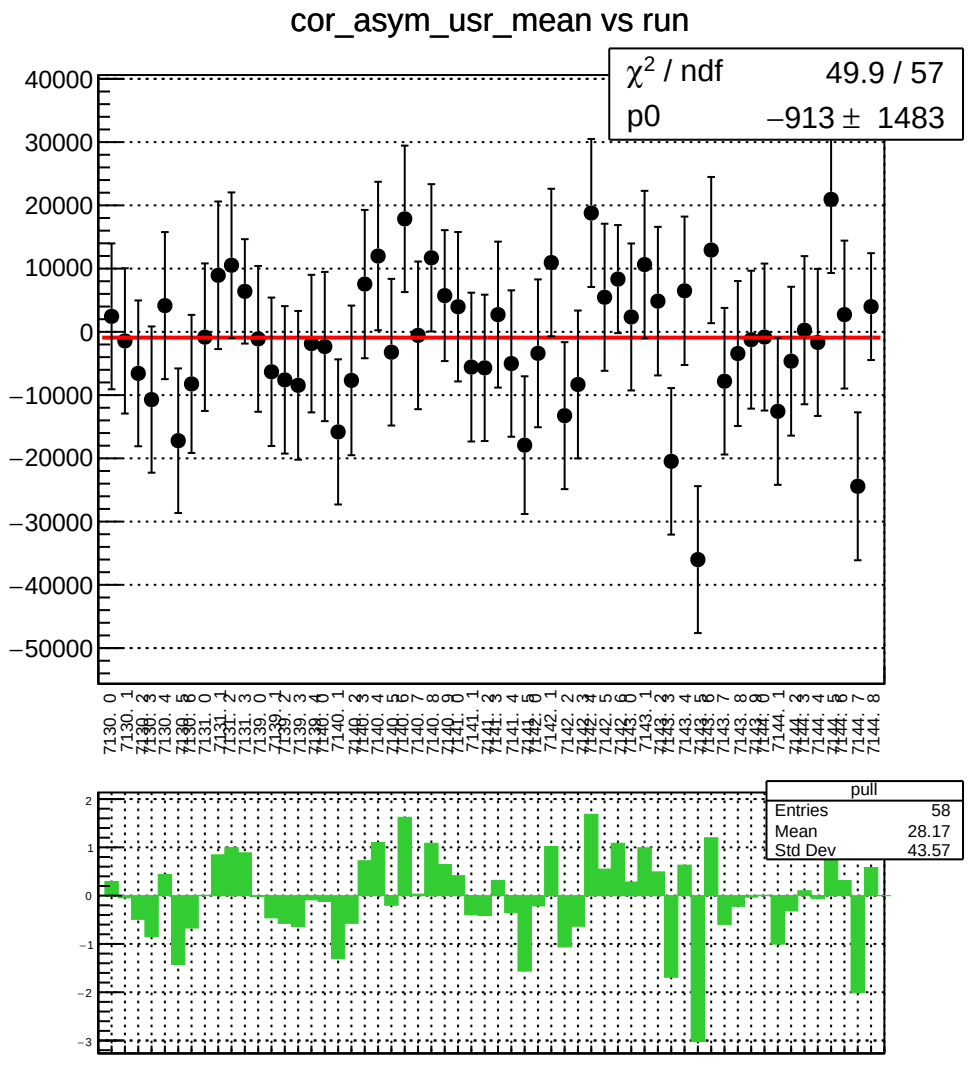

pull1D
Entries 58
Mean 0.003002
Std Dev 0.98

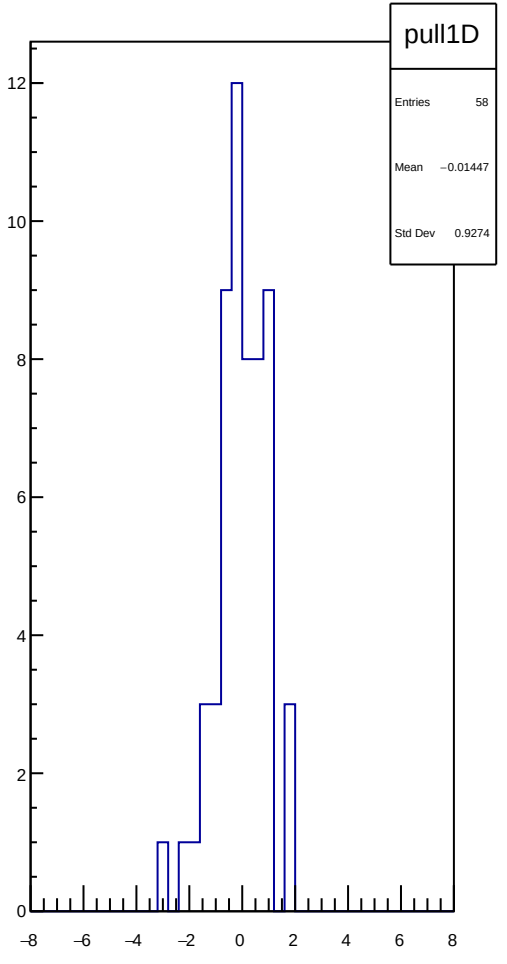

cor_asym_us_dd_rms vs run
χ² / ndf 61.91 / 57
p0 784.1 ± 0.745
800
790
780
770
760

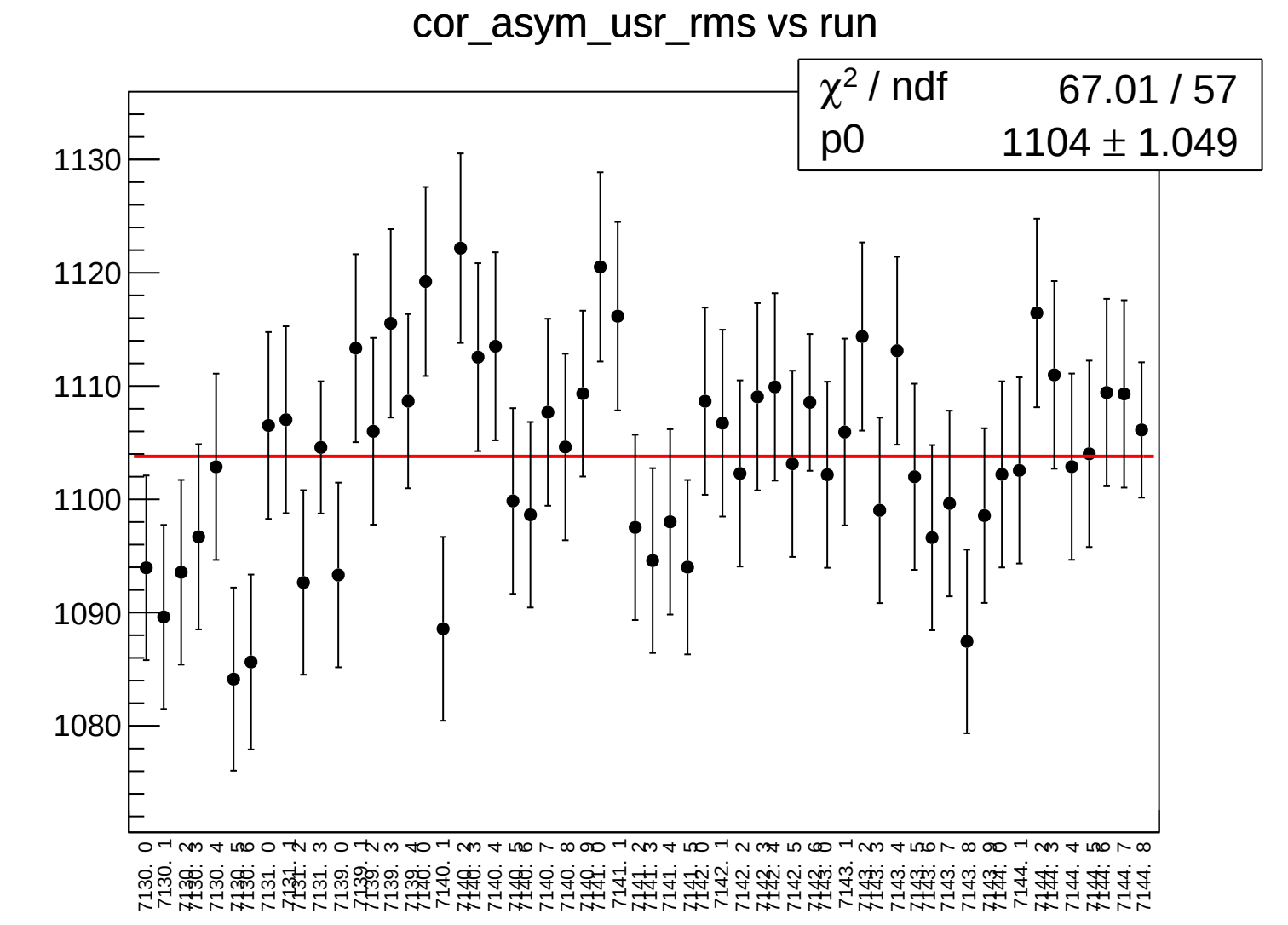

cor_asym_usl_mean vs run
χ² / ndf 72.71 / 57
p0 −1401 ± 1504
pull
Entries 58
Mean −180.6
Std Dev 213.1

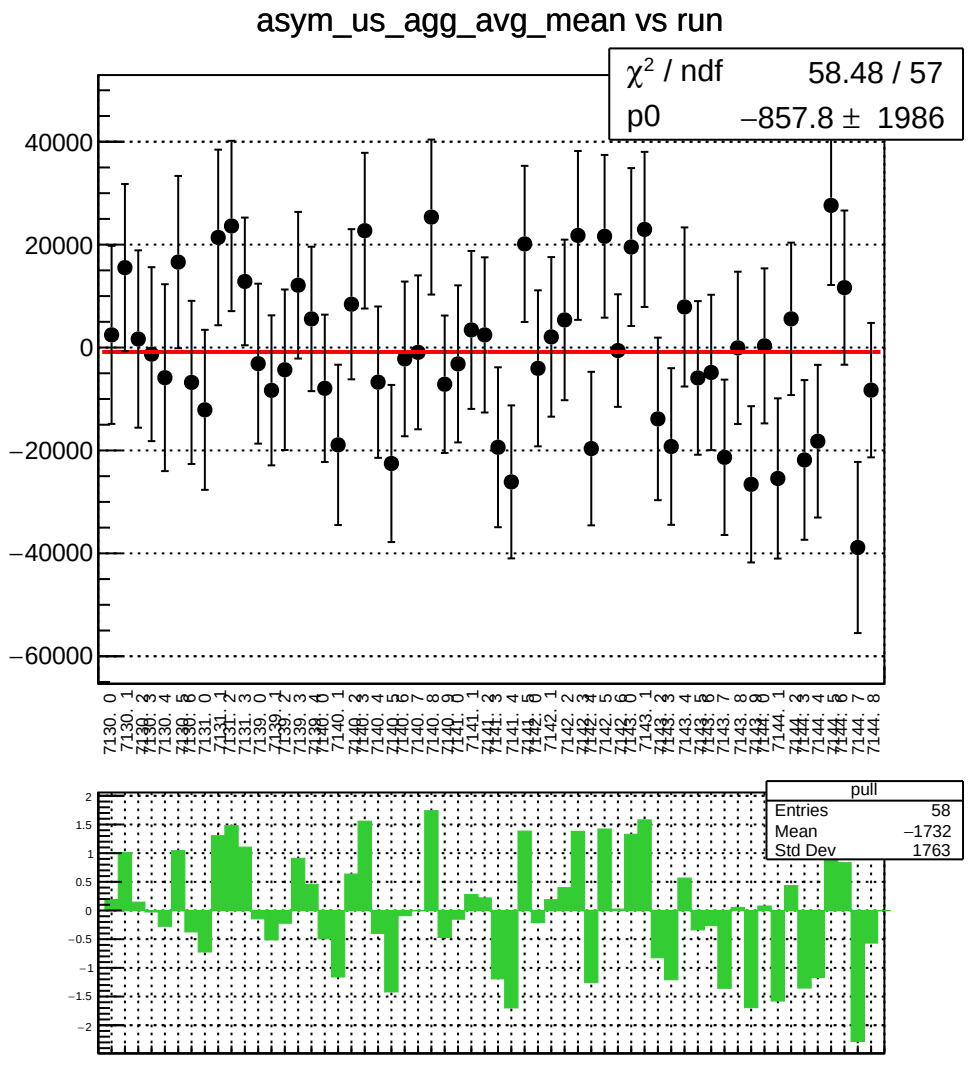

pull1D
Entries 58
Mean −0.01286
Std Dev 1.12

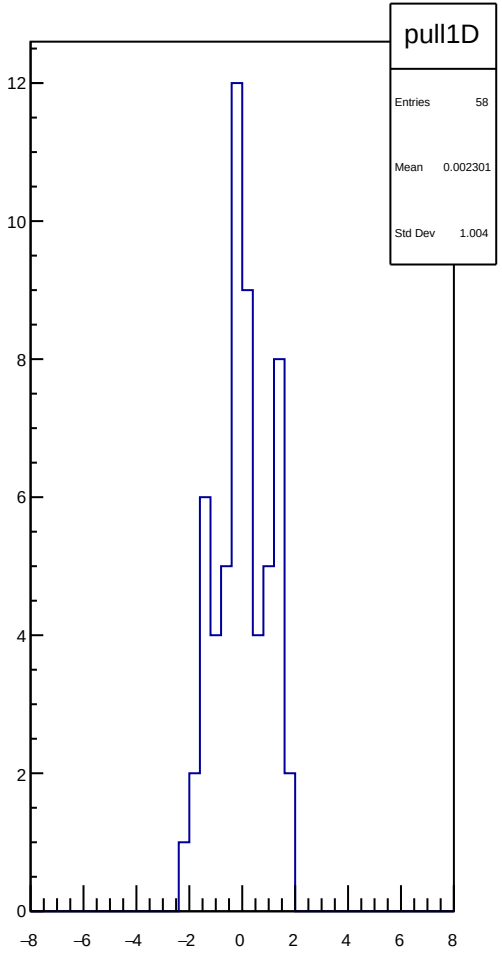

cor_asym_usl_rms vs run
χ² / ndf 58.63 / 57
p0 1119 ± 1.064
1140
1130
1120
1110
1100
1090
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

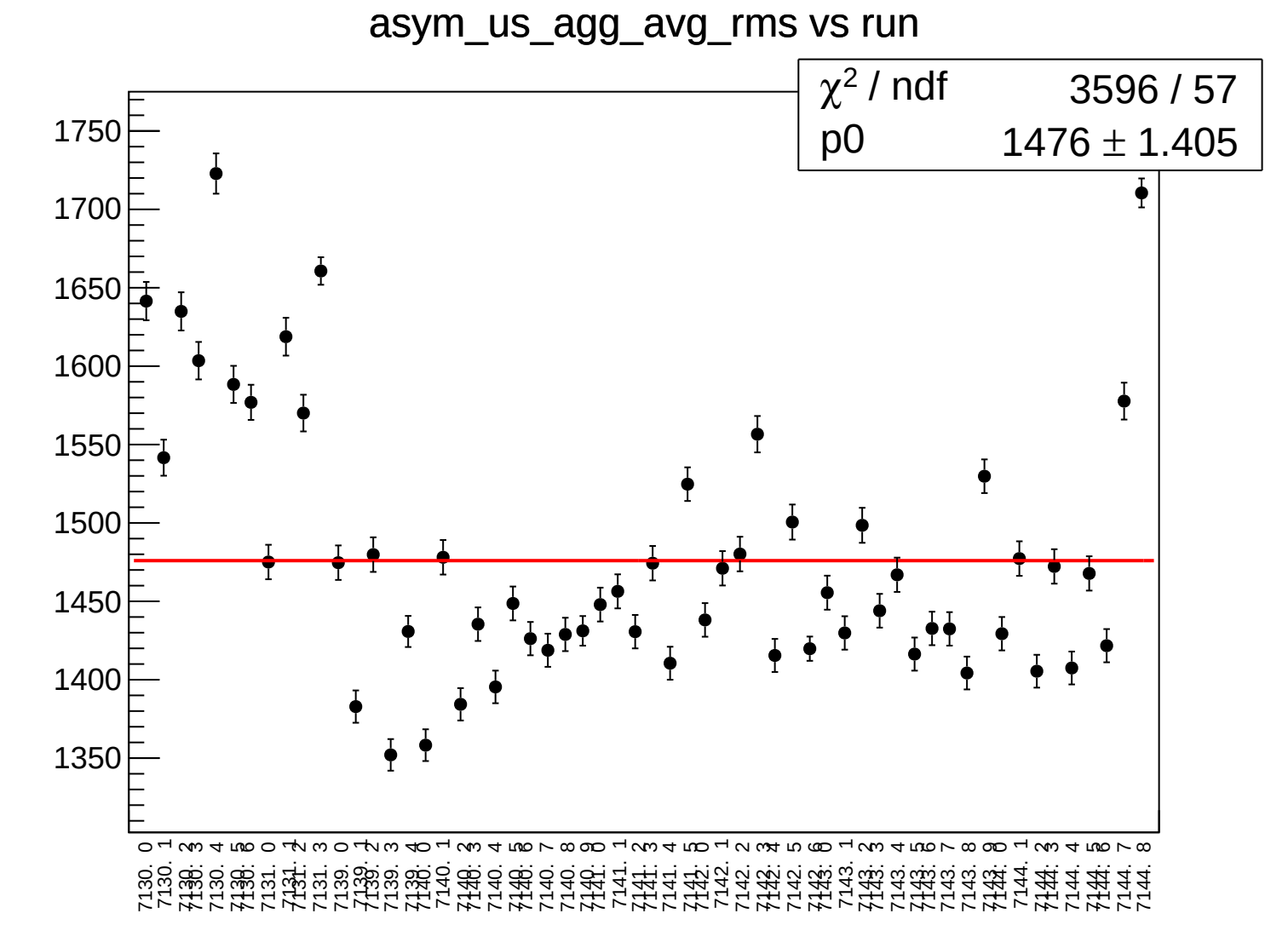

cor_asym_usr_mean vs run
χ² / ndf 49.9 / 57
p0 −913 ± 1483
pull
Entries 58
Mean 28.17
Std Dev 43.57

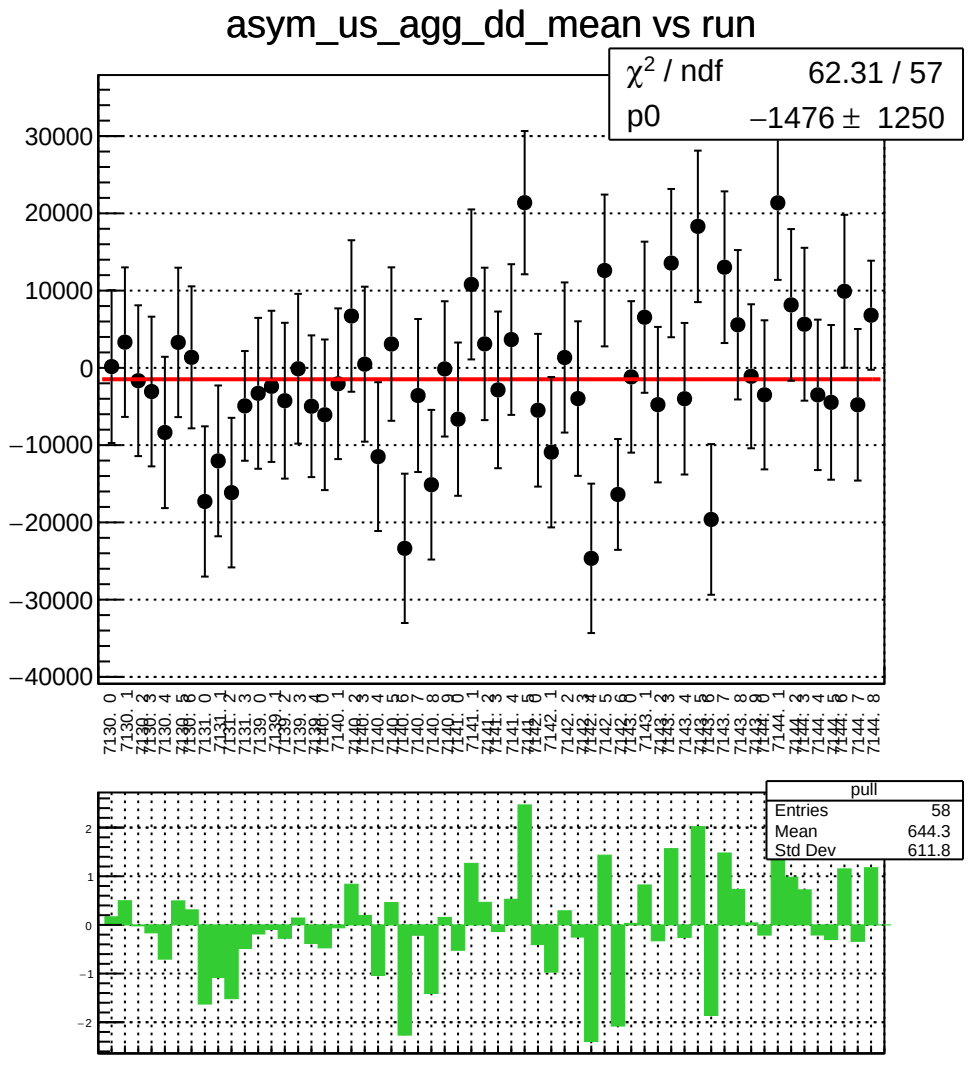

pull1D
Entries 58
Mean −0.01447
Std Dev 0.9274

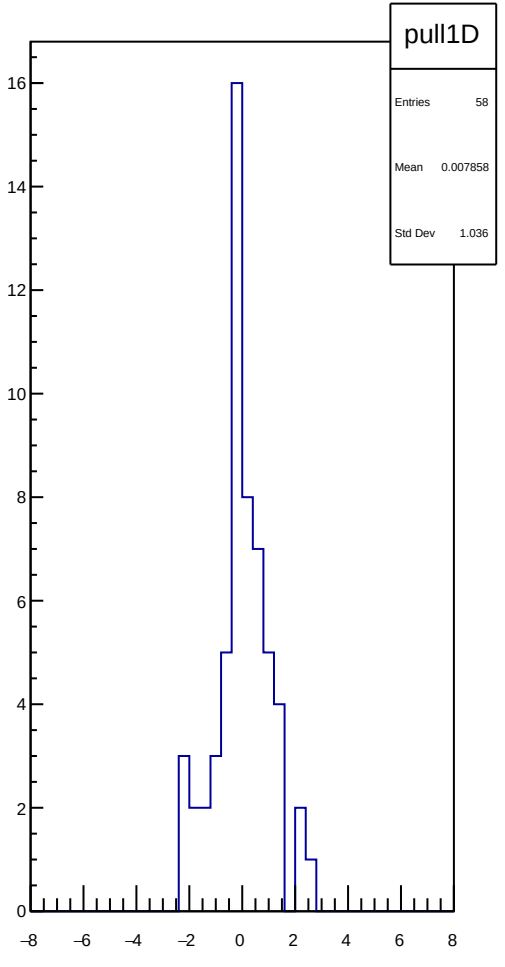

cor_asym_usr_rms vs run
χ² / ndf 67.01 / 57
p0 1104 ± 1.049
1130
1120
1110
1100
1090
1080

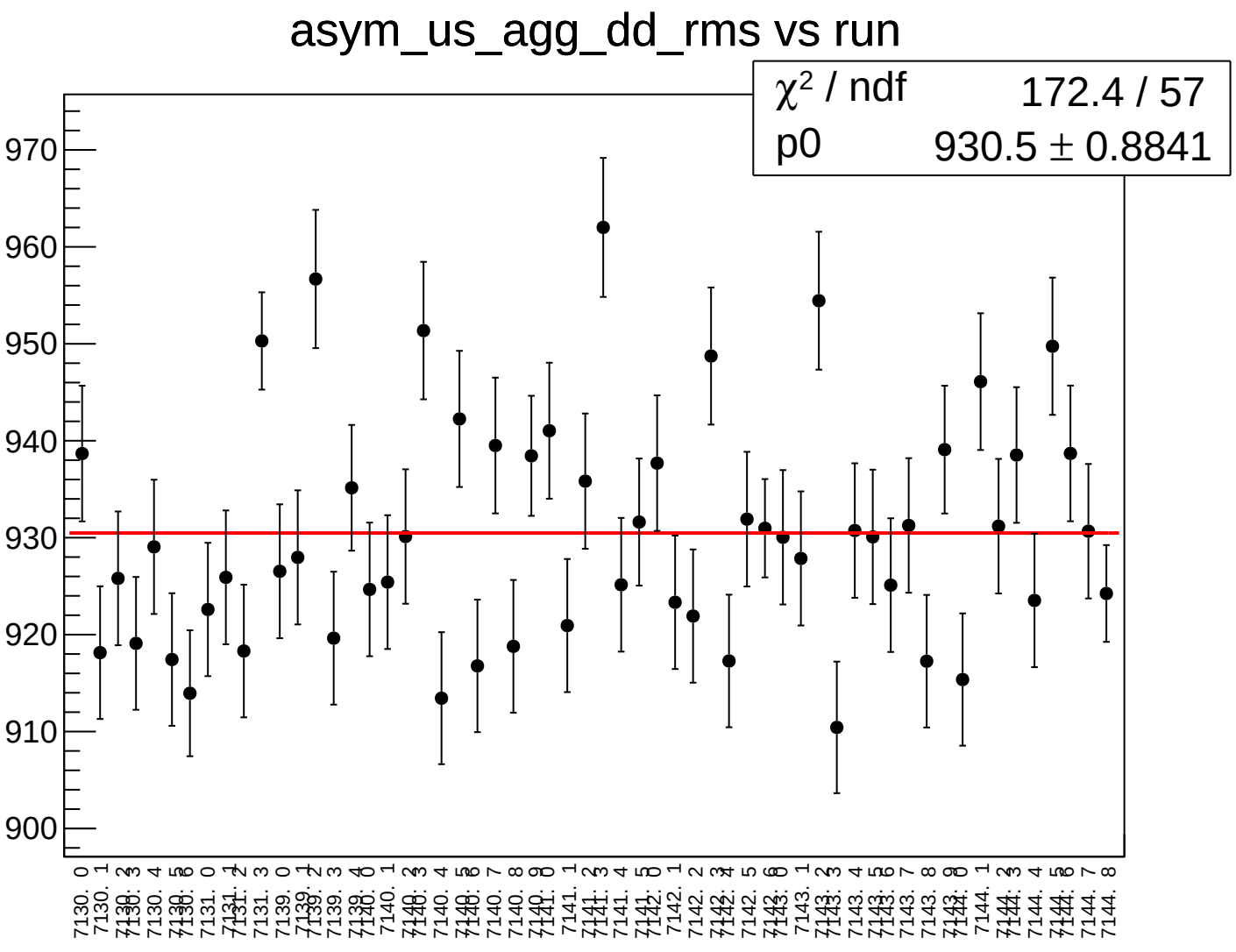

asym_us_agg_avg_mean vs run
χ² / ndf 58.48 / 57
p0 −857.8 ± 1986
40000
20000
0
−20000
−40000
−60000
pull
Entries 58
Mean −1732
Std Dev 1763
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

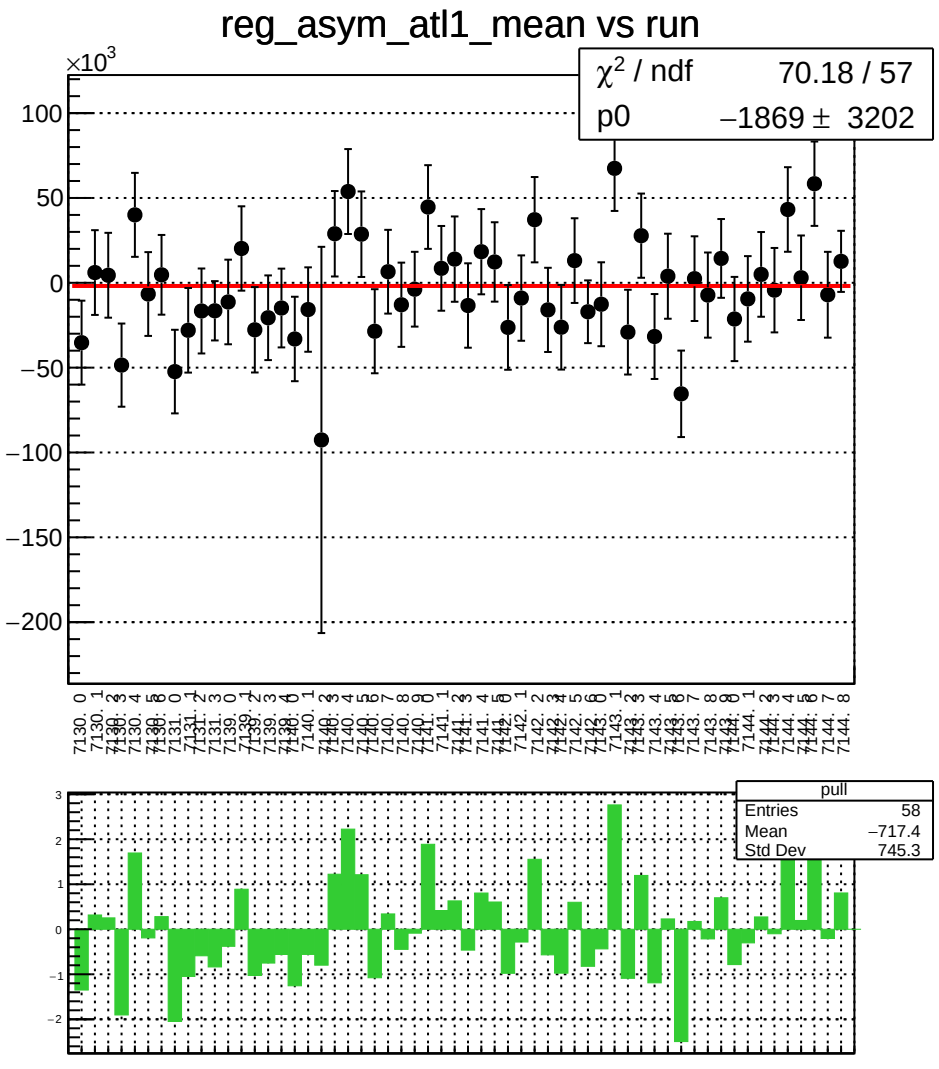

pull1D
Entries 58
Mean 0.002301
Std Dev 1.004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

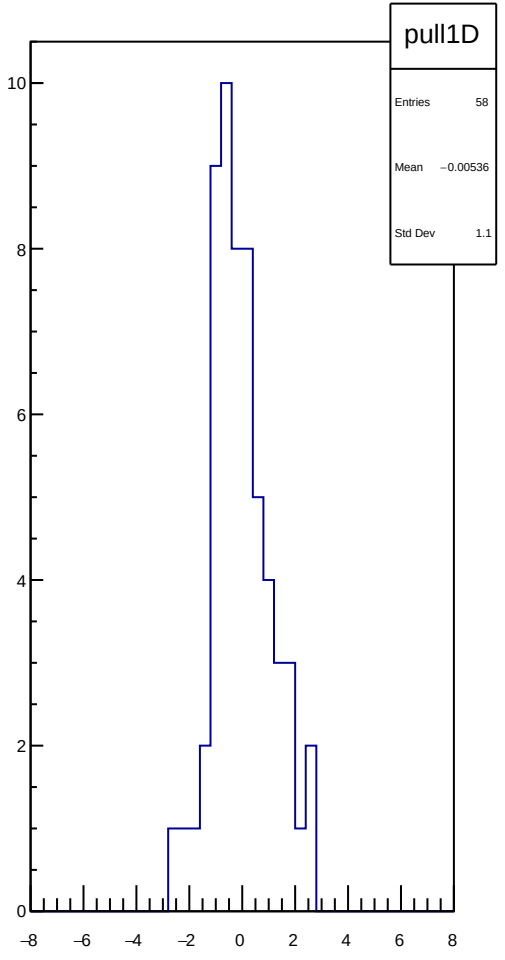

asym_us_agg_avg_rms vs run
χ² / ndf 3596 / 57
p0 1476 ± 1.405
1750
1700
1650
1600
1550
1500
1450
1400
1350

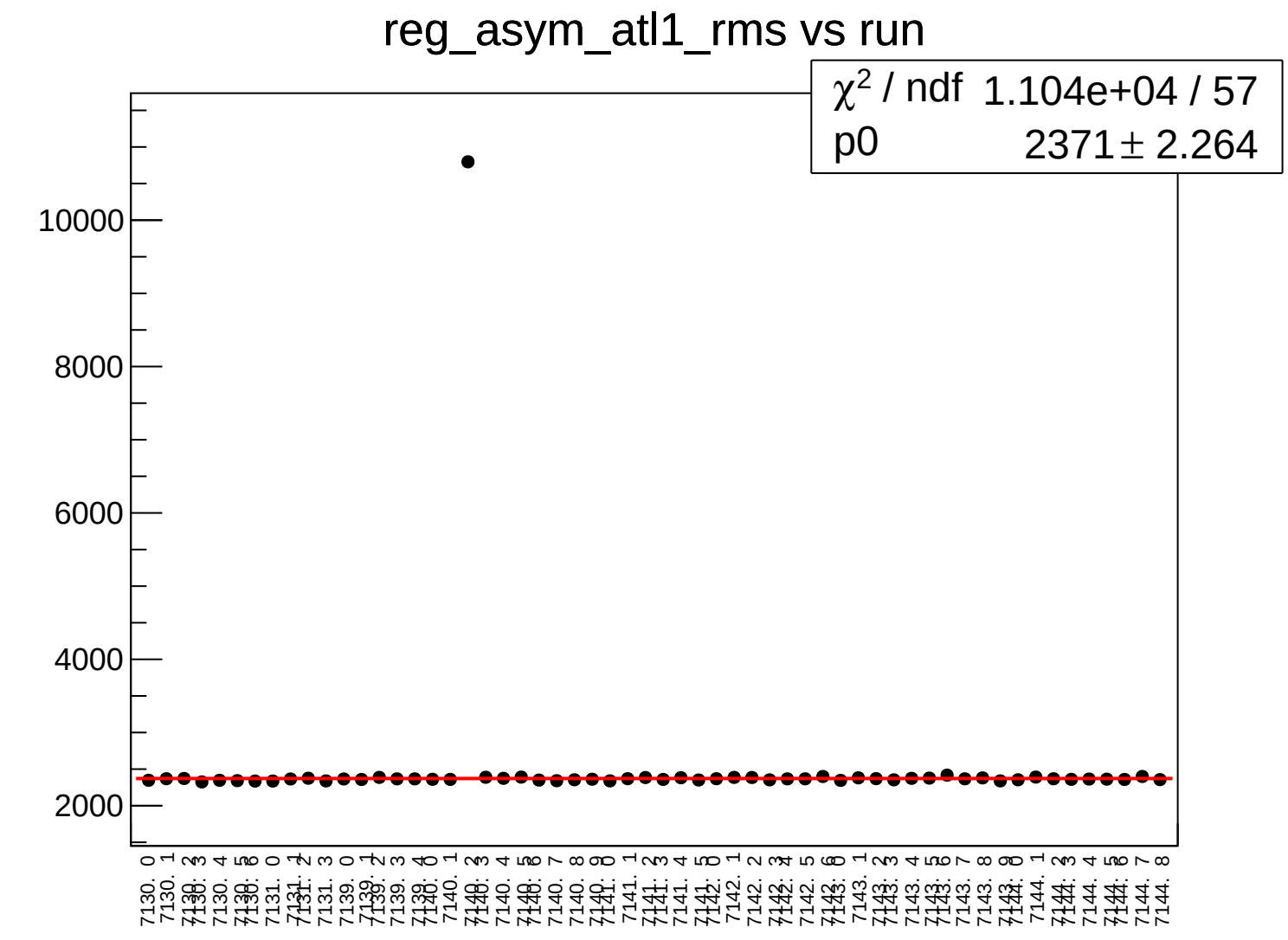

asym_us_agg_dd_mean vs run
χ^2 / ndf 62.31 / 57
p0 −1476 ± 1250
pull
Entries 58
Mean 644.3
Std Dev 611.8

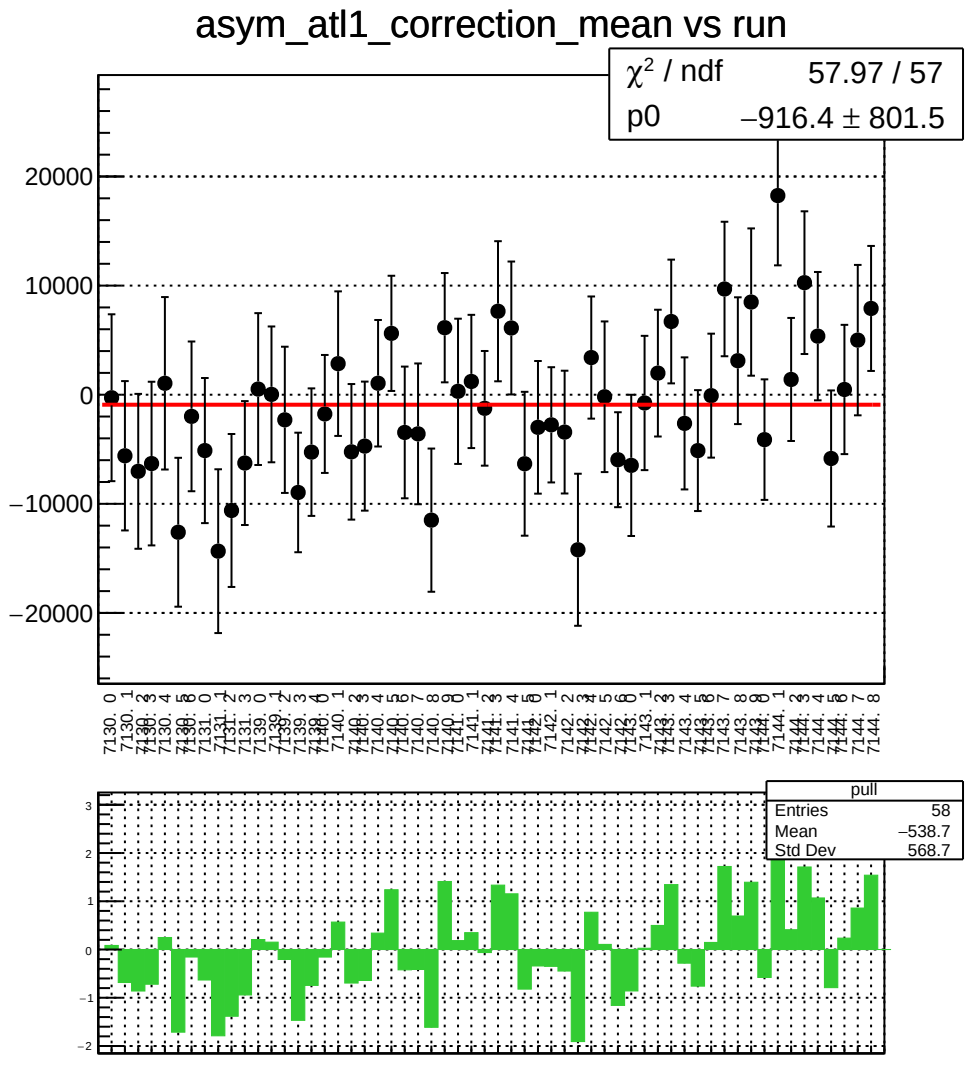

pull1D
Entries 58
Mean 0.007858
Std Dev 1.036

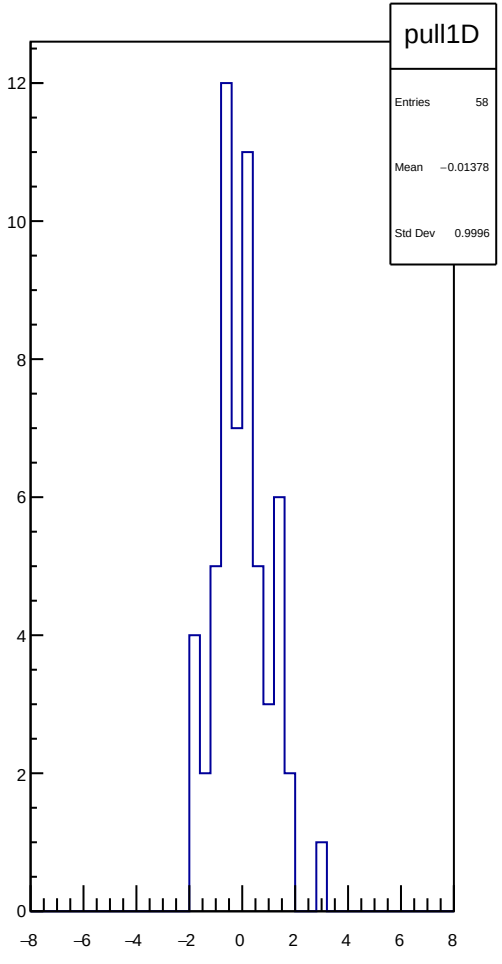

asym_us_agg_dd_rms vs run
χ² / ndf 172.4 / 57
p0 930.5 ± 0.8841
970
960
950
940
930
920
910
900

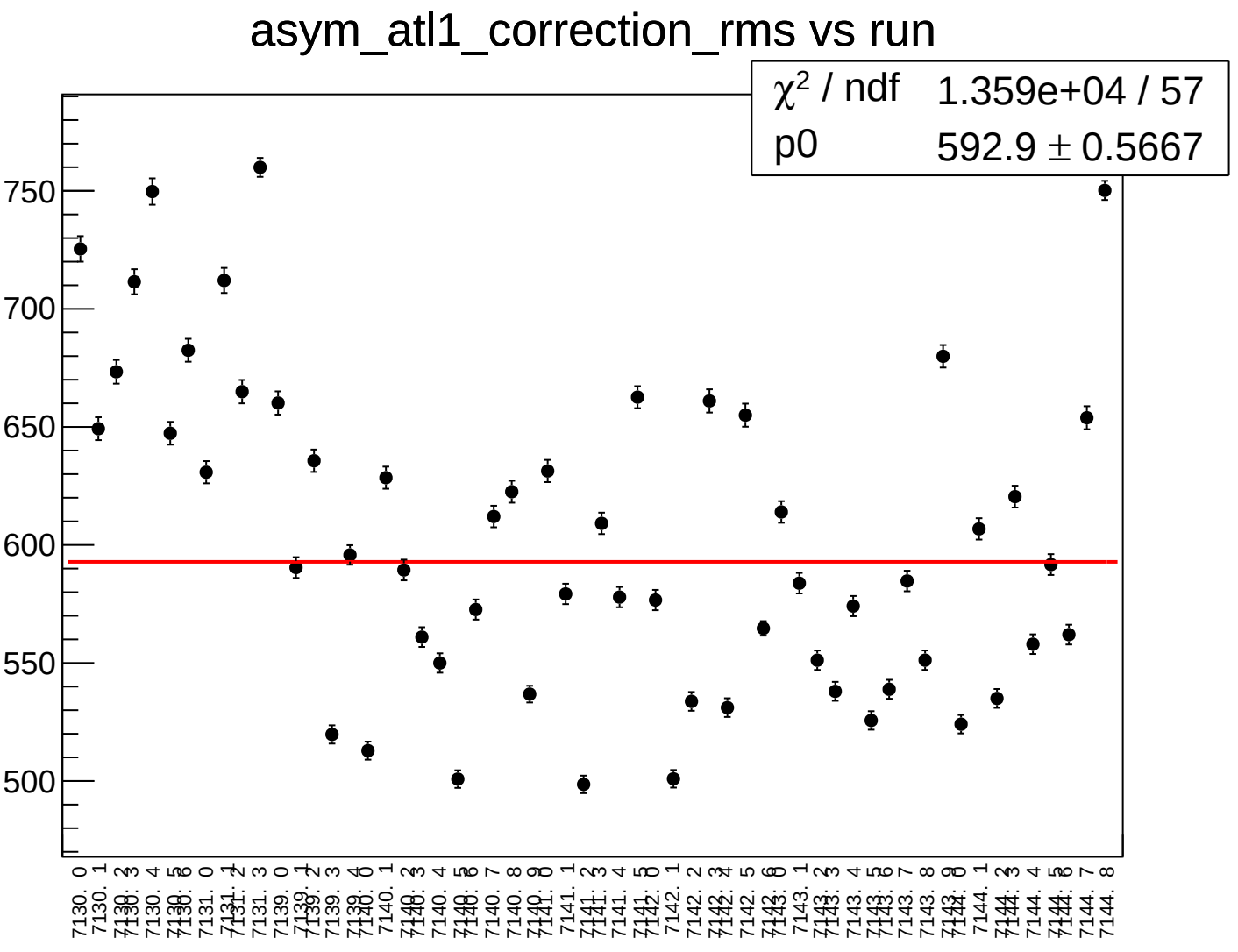

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 70.18 / 57
p0 −1869 ± 3202
100
50
0
−50
−100
−150
−200
pull
Entries 58
Mean −717.4
Std Dev 745.3
3
2
1
0
−1
−2

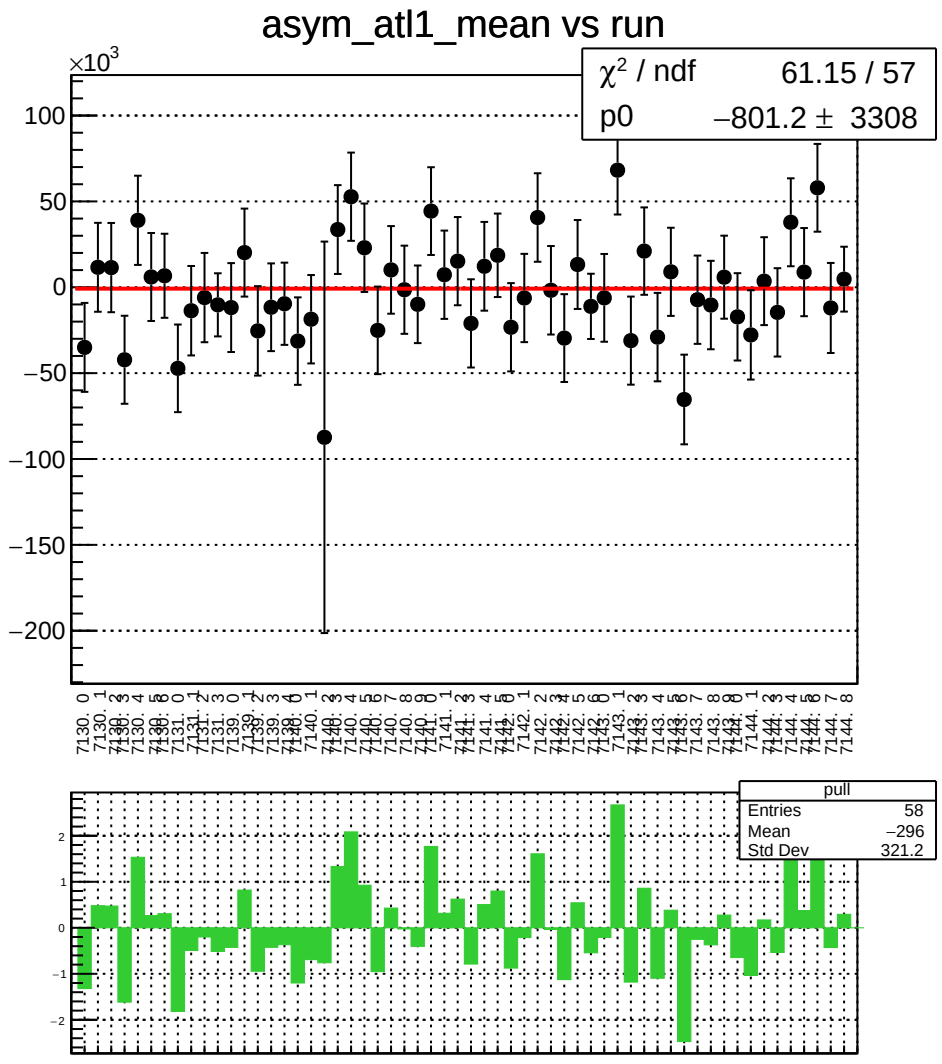

pull1D
Entries 58
Mean −0.00536
Std Dev 1.1
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

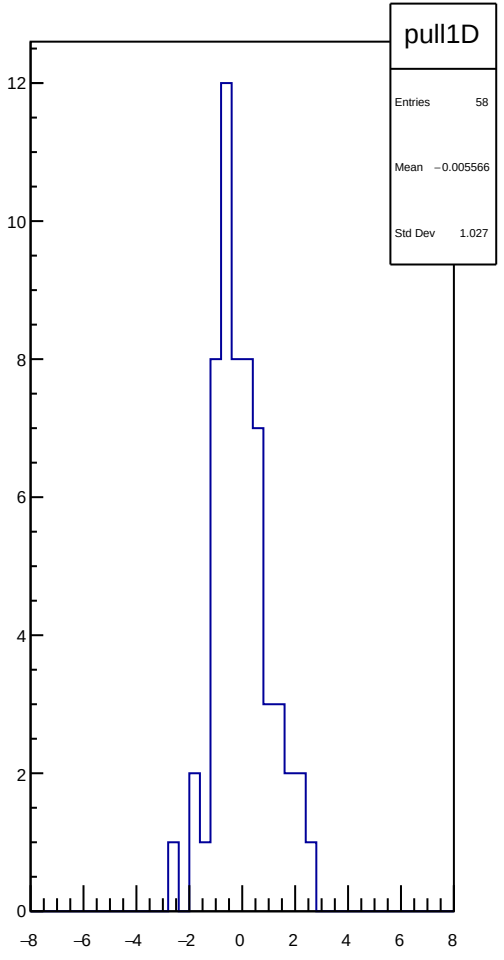

reg_asym_atl1_rms vs run
χ² / ndf 1.104e+04 / 57
p0 2371 ± 2.264
10000
8000
6000
4000
2000

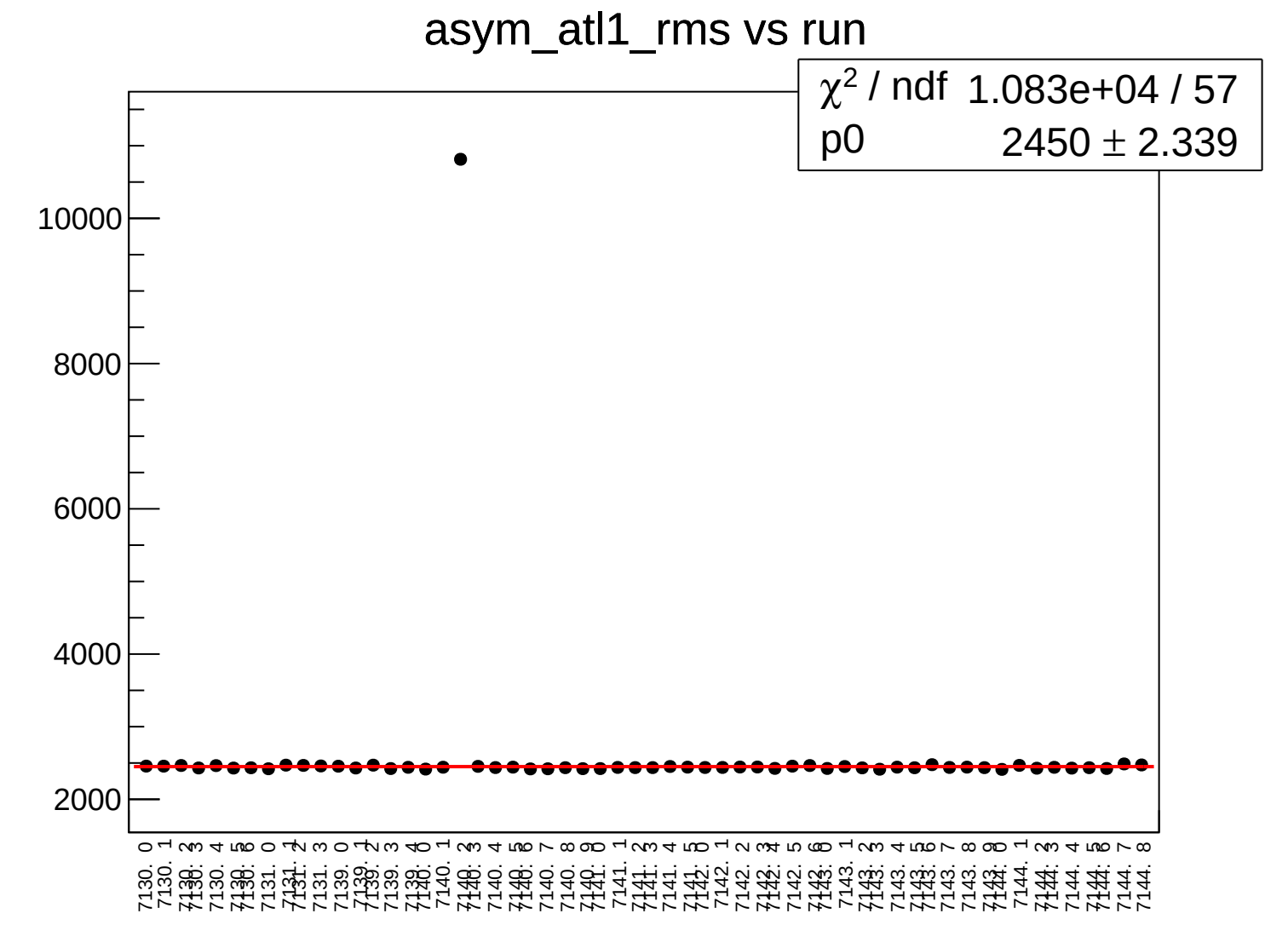

asym_atl1_correction_mean vs run
χ² / ndf 57.97 / 57
p0 −916.4 ± 801.5
20000
10000
0
−10000
−20000
pull
Entries 58
Mean −538.7
Std Dev 568.7
3
2
1
0
−1
−2

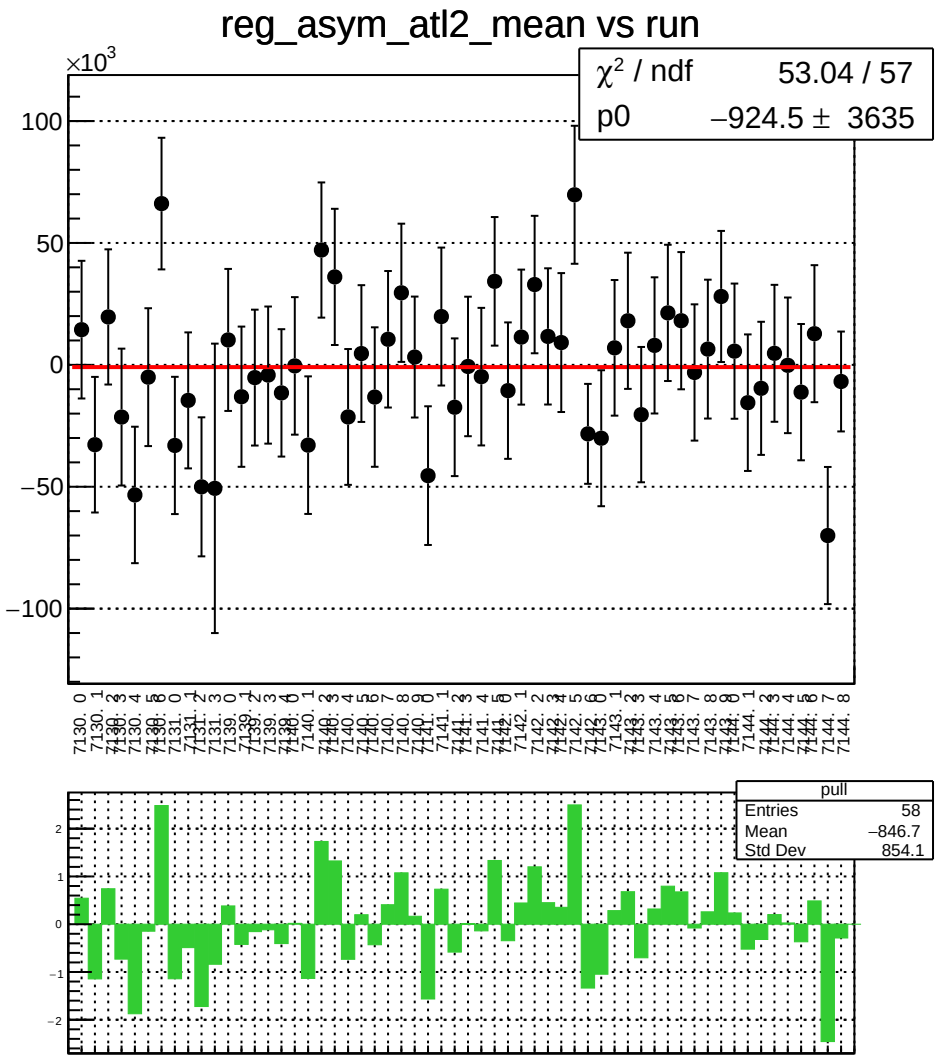

pull1D
Entries 58
Mean −0.01378
Std Dev 0.9996
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

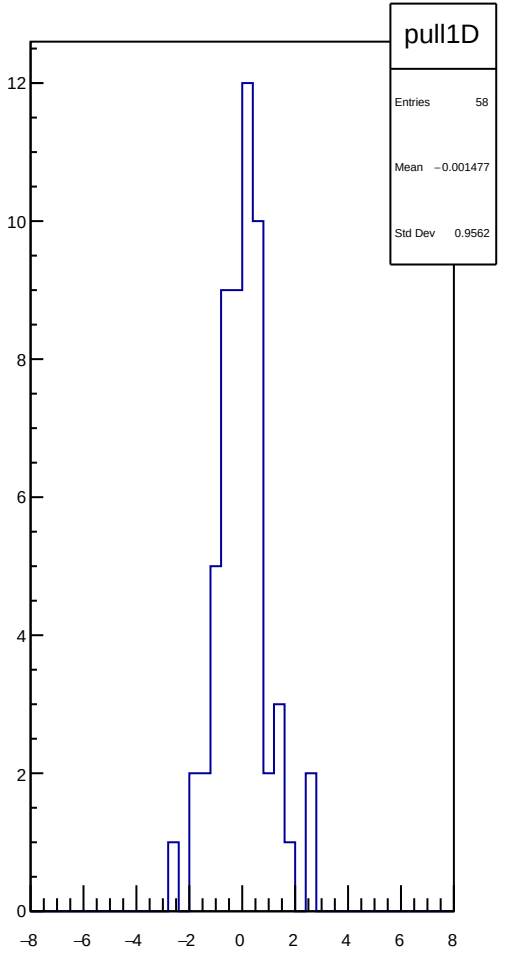

asym_atl1_correction_rms vs run
χ² / ndf 1.359e+04 / 57
p0 592.9 ± 0.5667
750
700
650
600
550
500

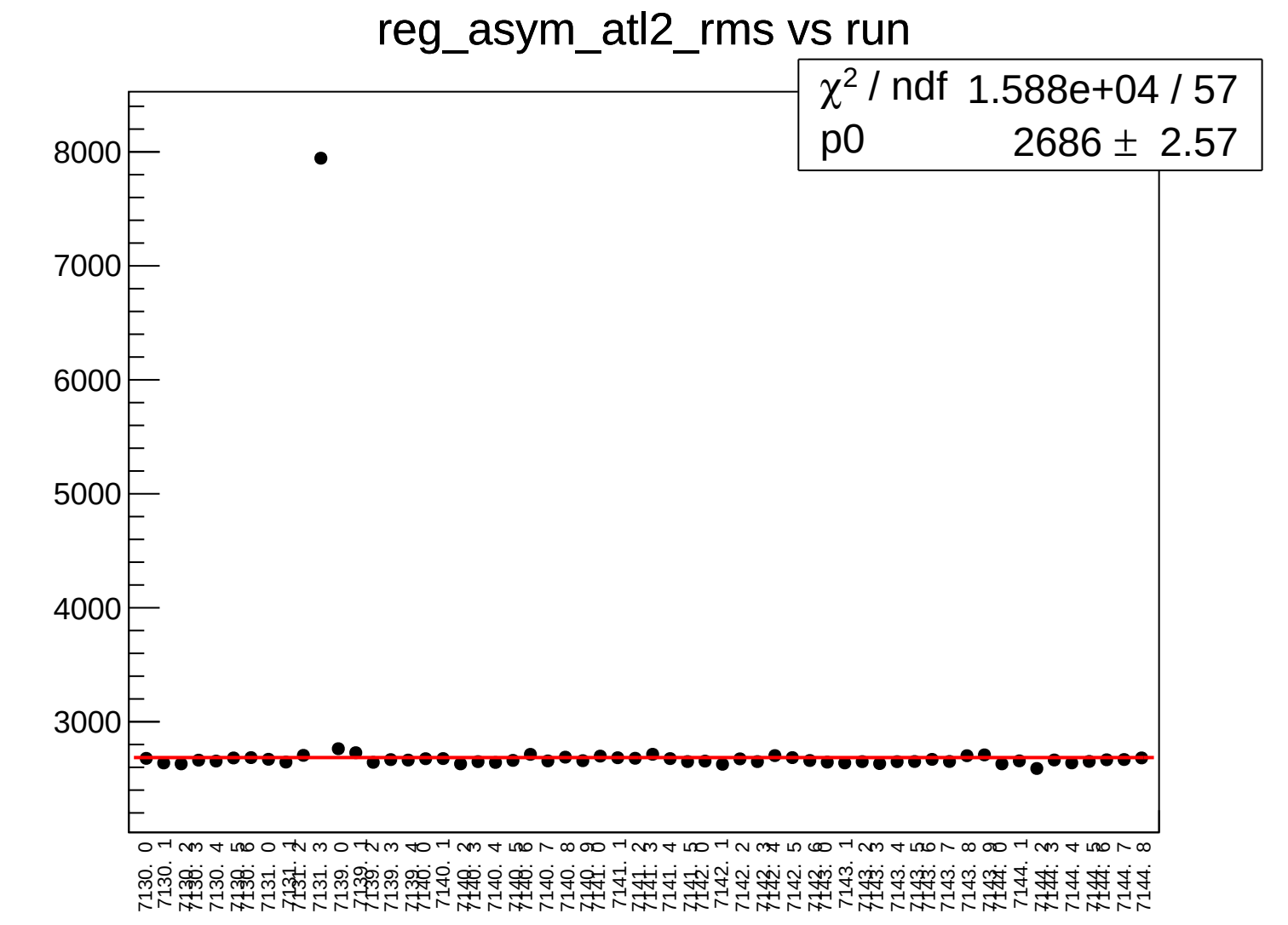

asym_atl1_mean vs run
×10^3
χ² / ndf 61.15 / 57
p0 −801.2 ± 3308
100
50
0
−50
−100
−150
−200
pull
Entries 58
Mean −296
Std Dev 321.2
2
1
0
−1
−2

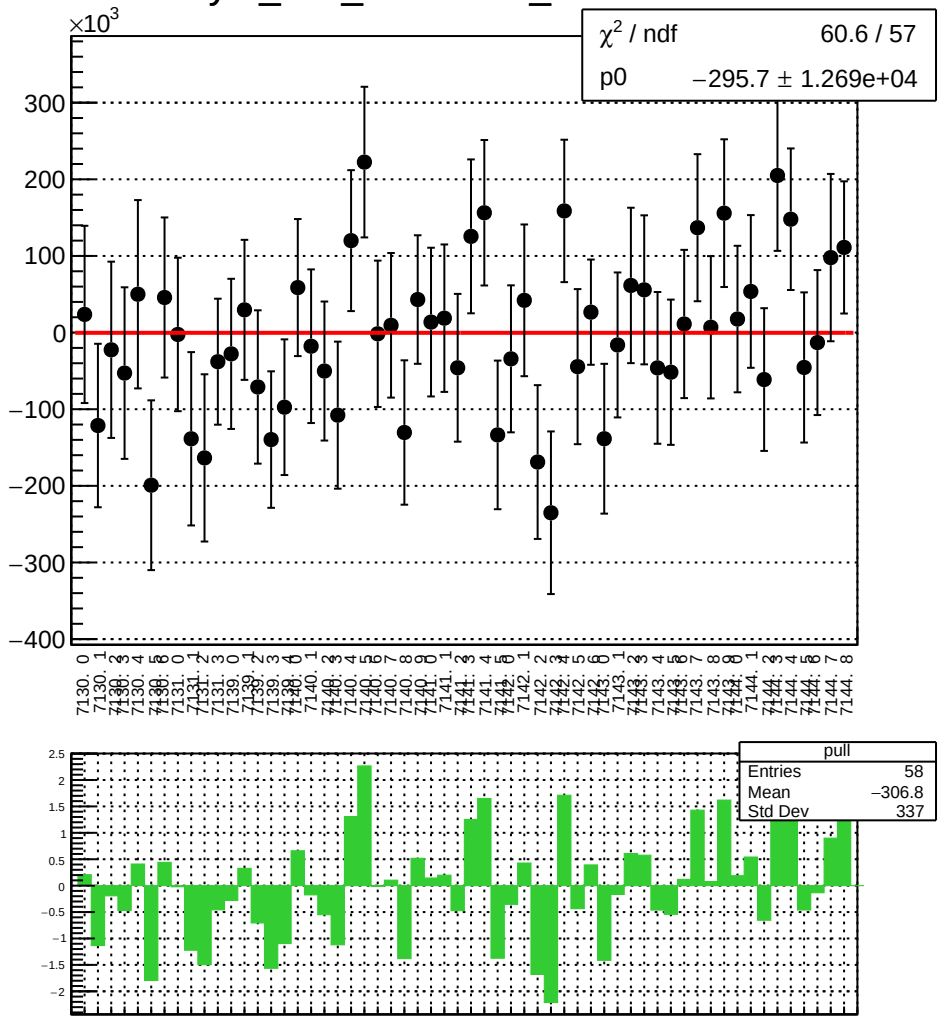

pull1D
Entries 58
Mean −0.005566
Std Dev 1.027
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

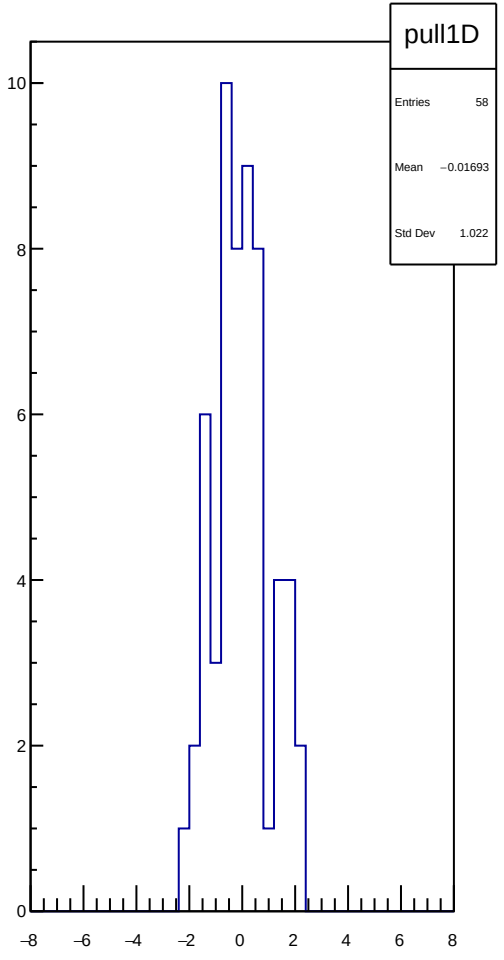

asym_atl1_rms vs run
χ^2 / ndf 1.083e+04 / 57
p0 2450 ± 2.339
10000
8000
6000
4000
2000
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

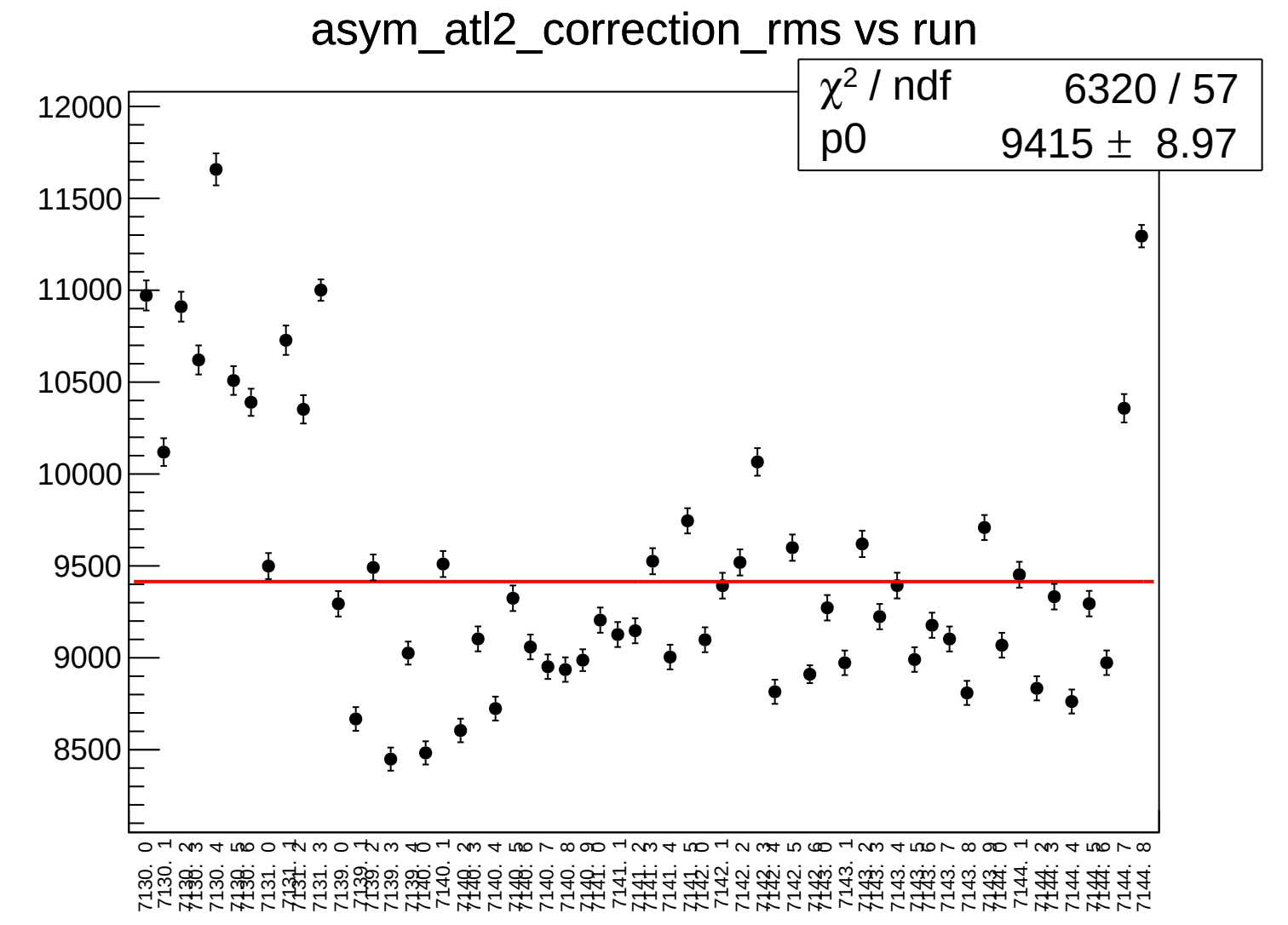

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 53.04 / 57
p0 −924.5 ± 3635
100
50
0
−50
−100
pull
Entries 58
Mean −846.7
Std Dev 854.1
2
1
0
−1
−2

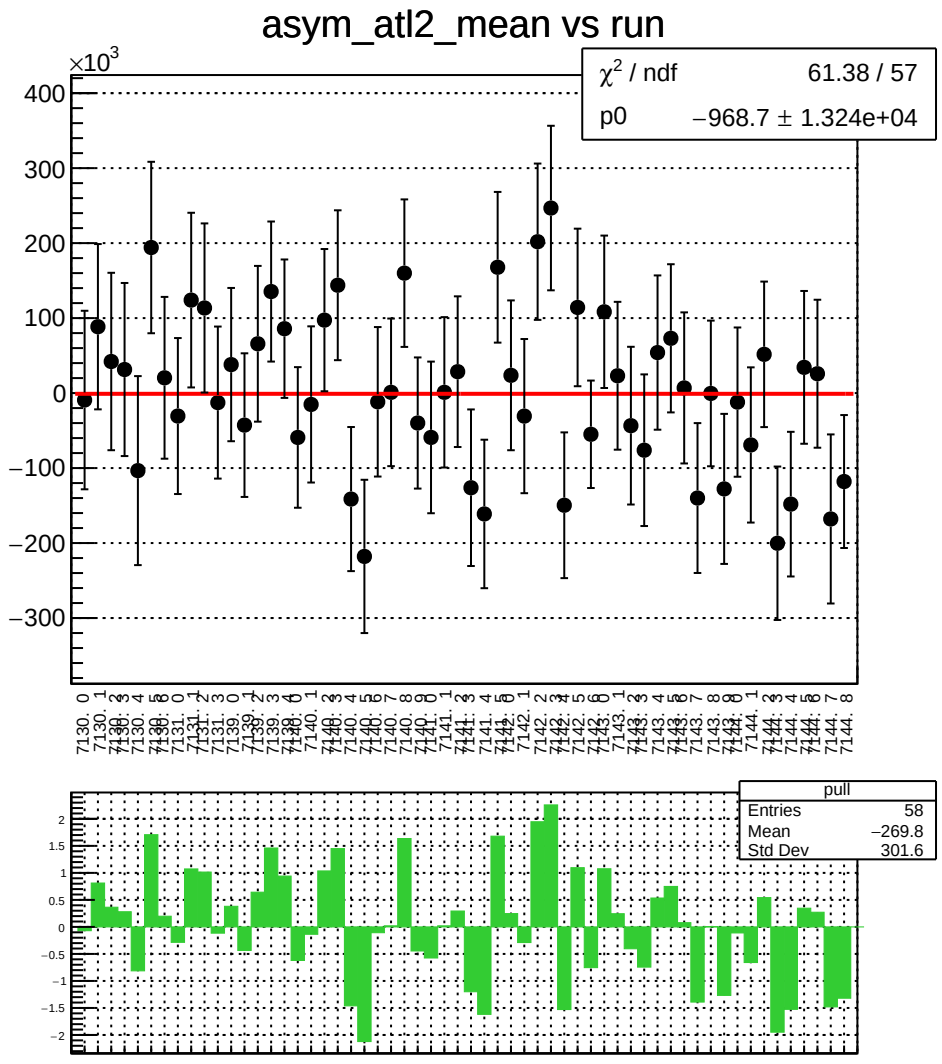

pull1D
Entries 58
Mean −0.001477
Std Dev 0.9562
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

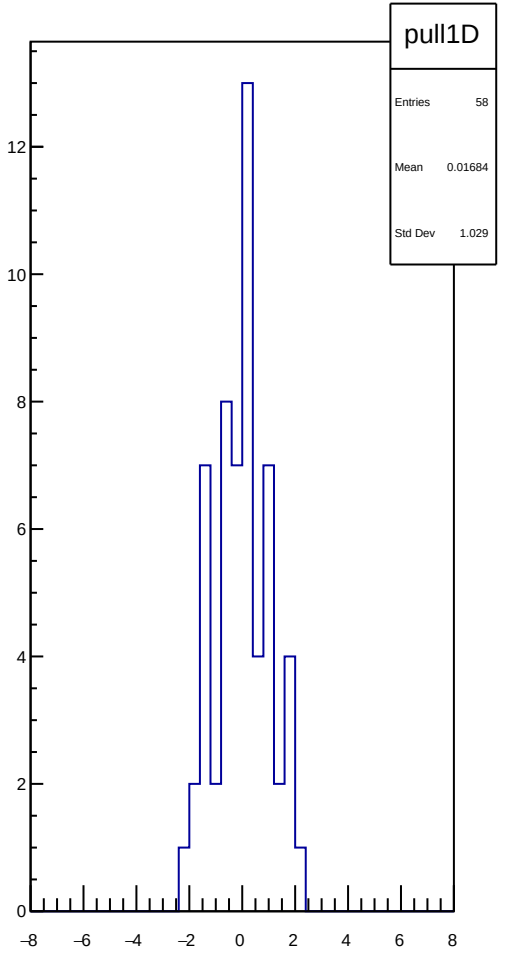

reg_asym_atl2_rms vs run
χ² / ndf 1.588e+04 / 57
p0 2686 ± 2.57
8000
7000
6000
5000
4000
3000

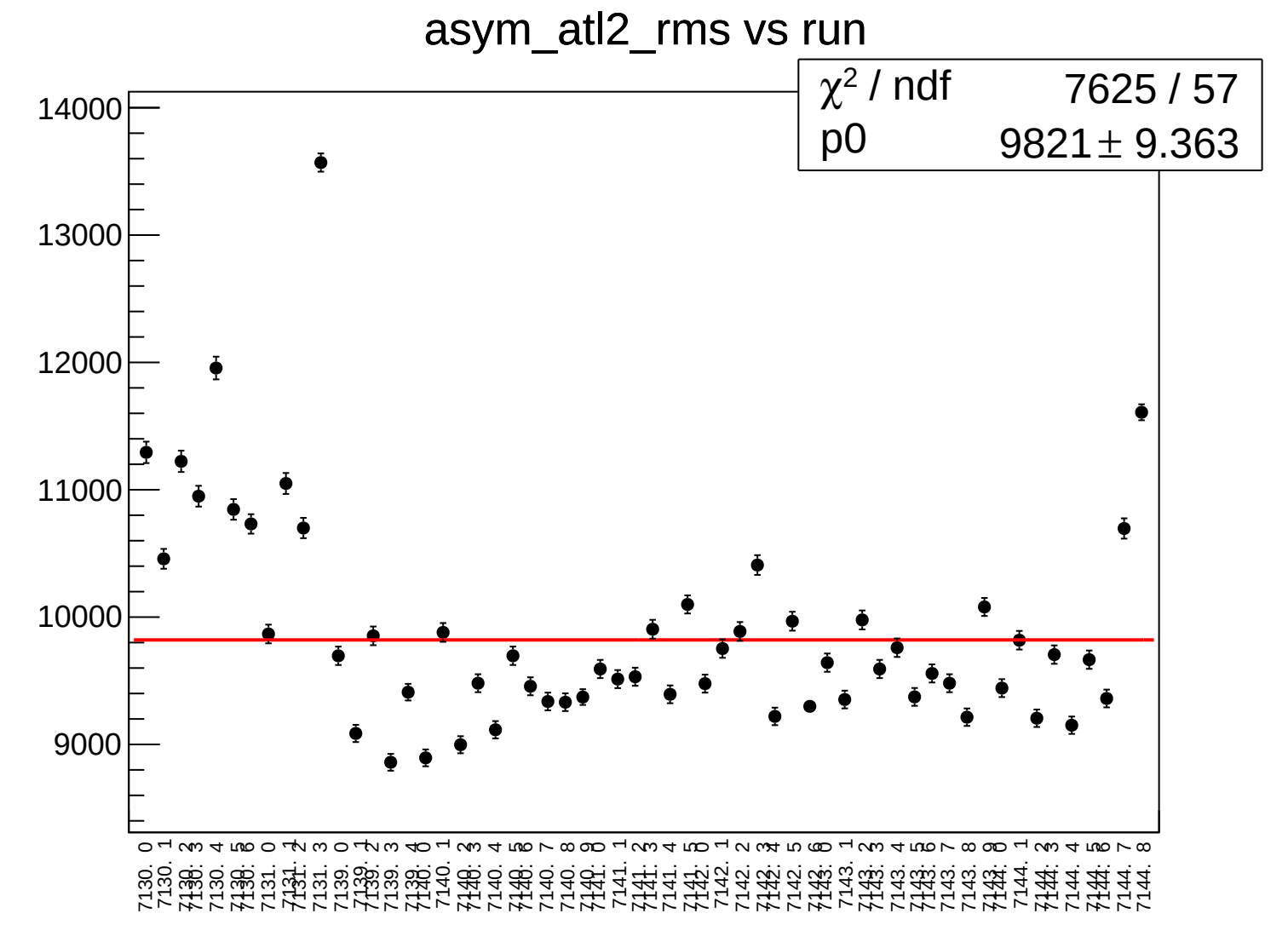

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 60.6 / 57
p0 −295.7 ± 1.269e+04
pull
Entries 58
Mean −306.8
Std Dev 337

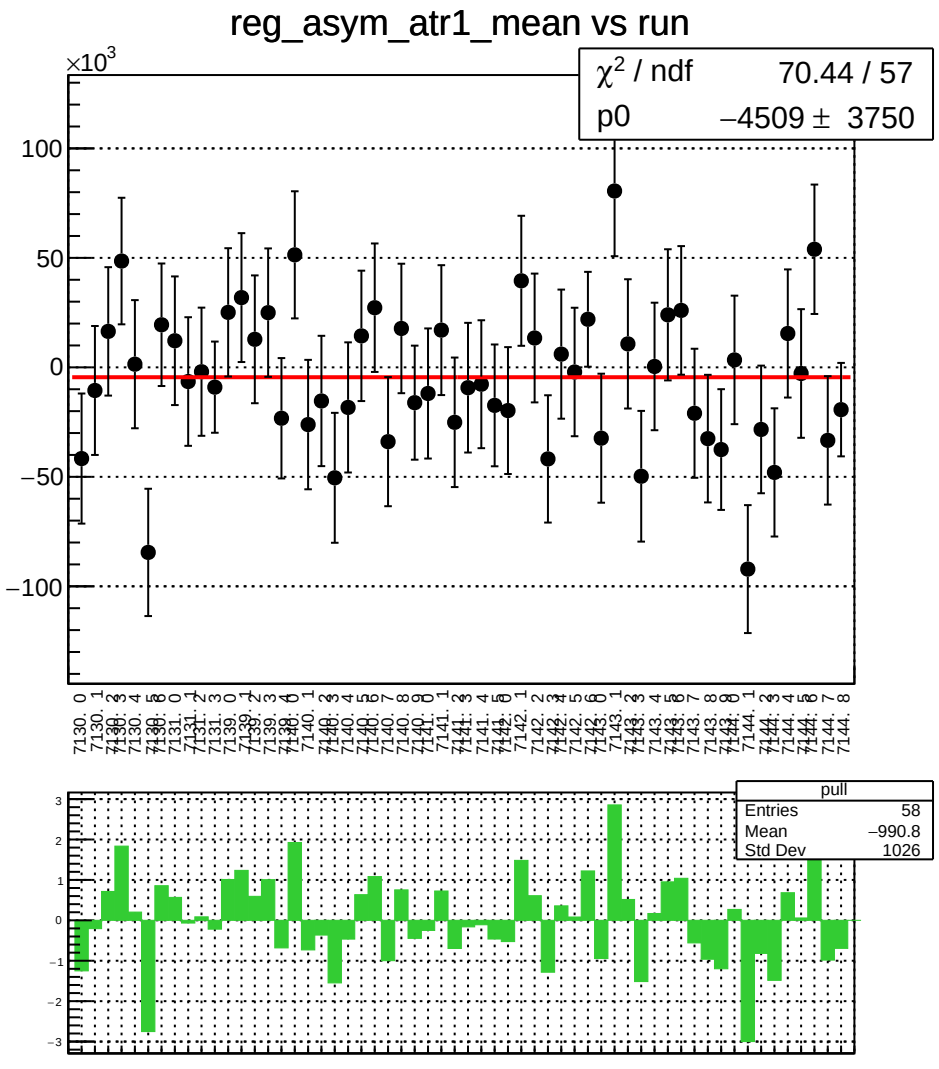

pull1D
Entries 58
Mean −0.01693
Std Dev 1.022

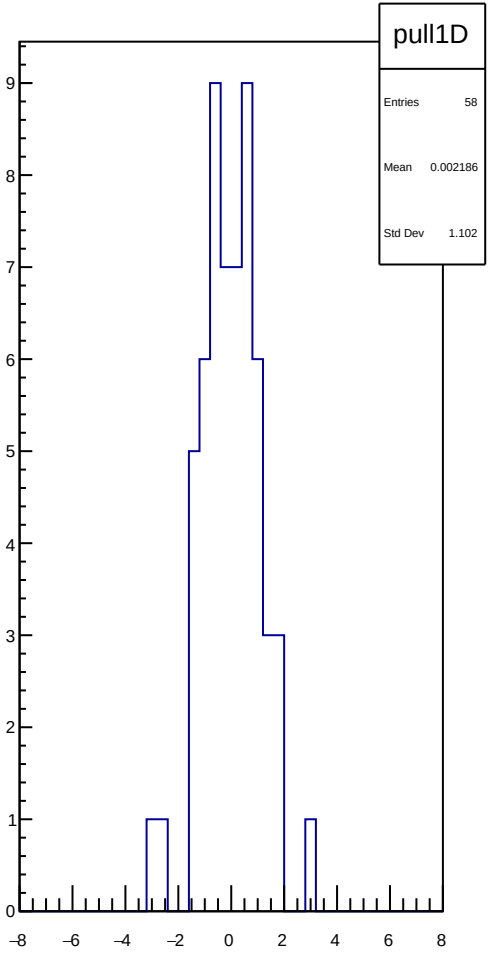

asym_atl2_correction_rms vs run
χ² / ndf 6320 / 57
p0 9415 ± 8.97
12000
11500
11000
10500
10000
9500
9000
8500

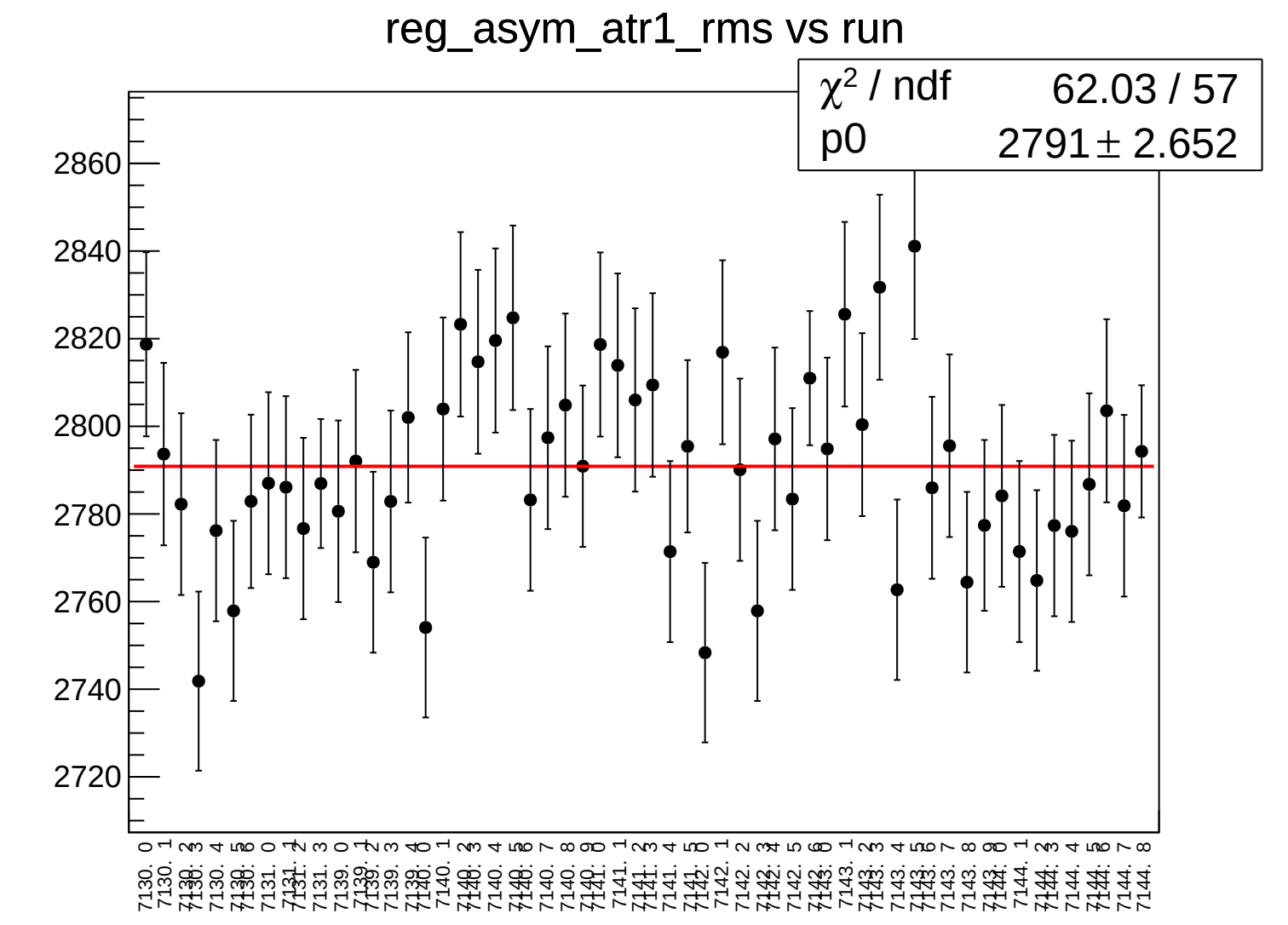

asym_atl2_mean vs run
×10^3
χ² / ndf 61.38 / 57
p0 −968.7 ± 1.324e+04
pull
Entries 58
Mean −269.8
Std Dev 301.6

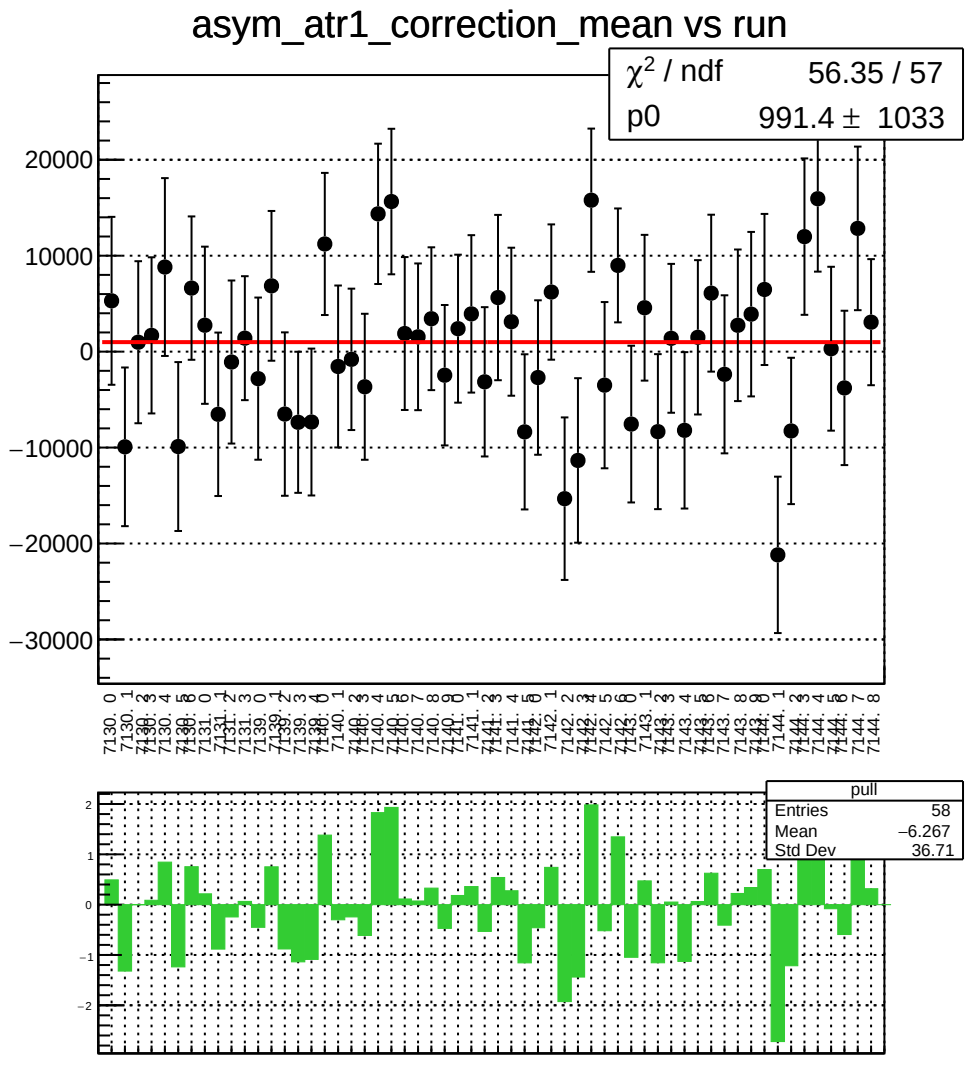

pull1D
Entries 58
Mean 0.01684
Std Dev 1.029

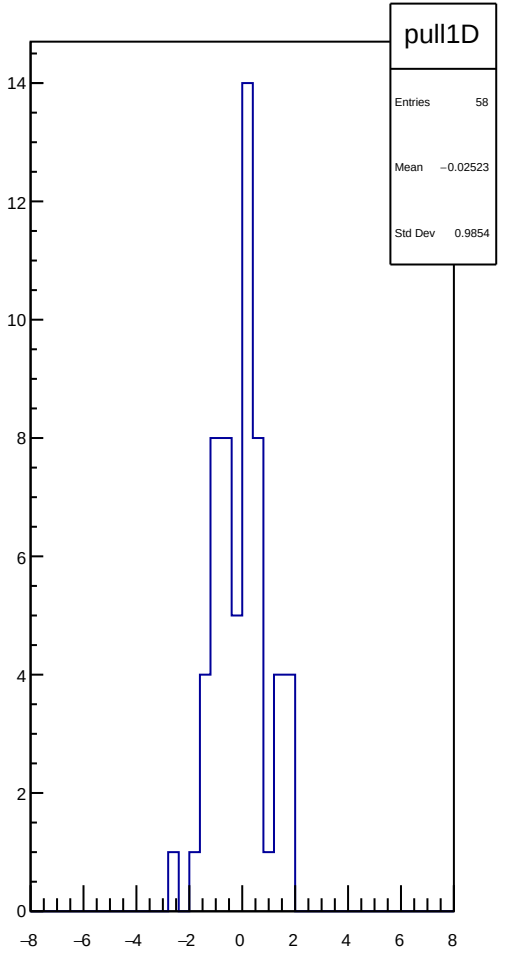

asym_atl2_rms vs run
χ^2 / ndf 7625 / 57
p0 9821 ± 9.363
14000
13000
12000
11000
10000
9000

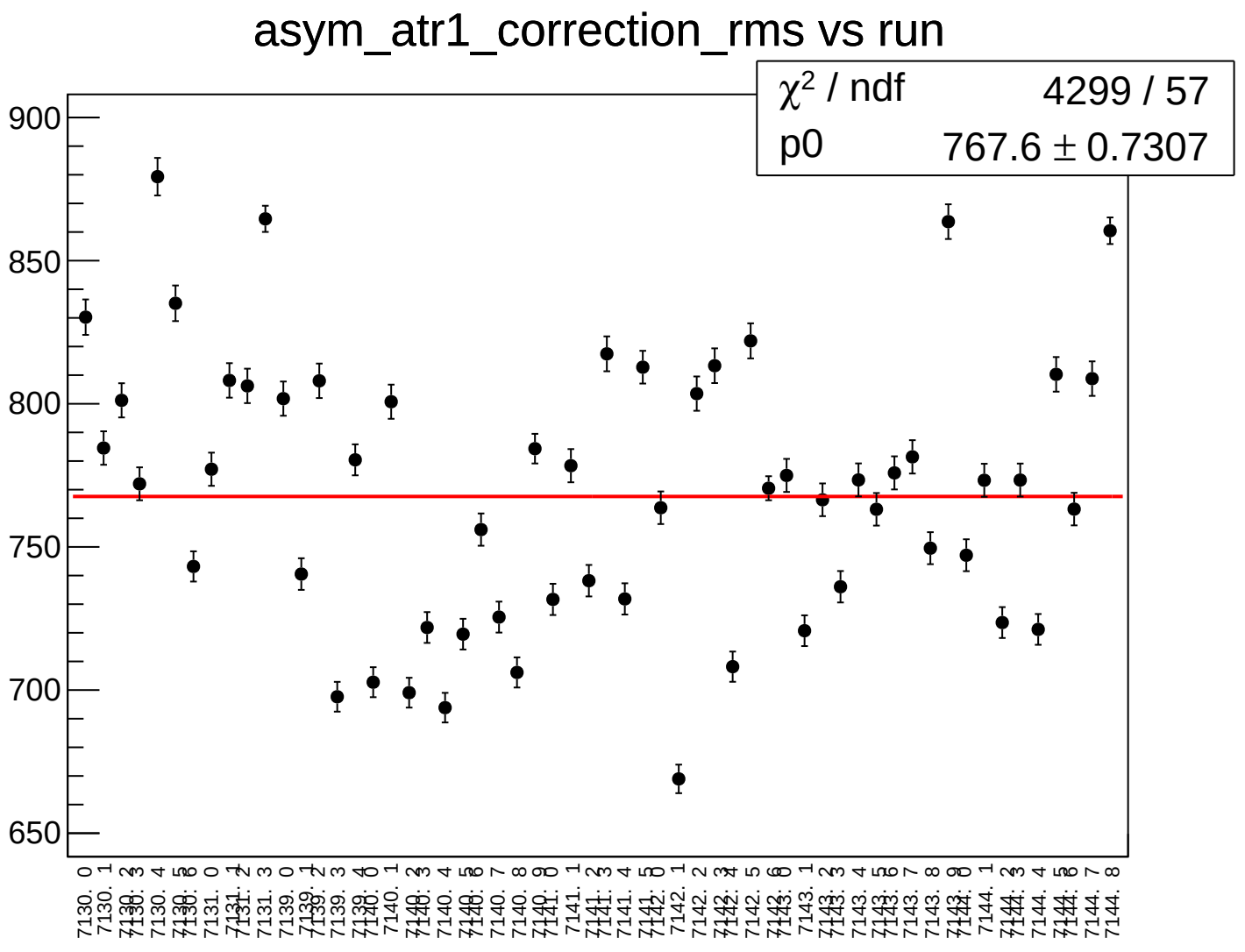

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 70.44 / 57
p0 −4509 ± 3750
100
50
0
−50
−100
pull
Entries 58
Mean −990.8
Std Dev 1026
3
2
1
0
−1
−2
−3

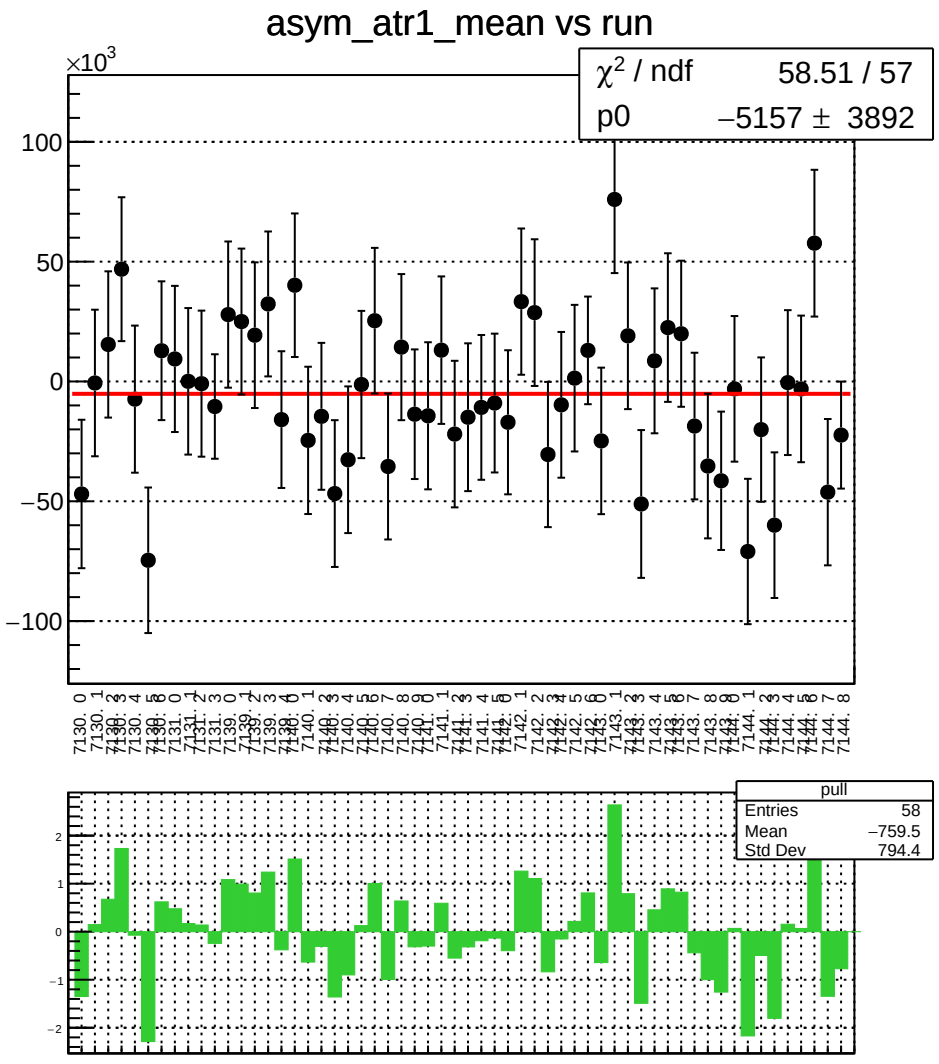

pull1D
Entries 58
Mean 0.002186
Std Dev 1.102
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

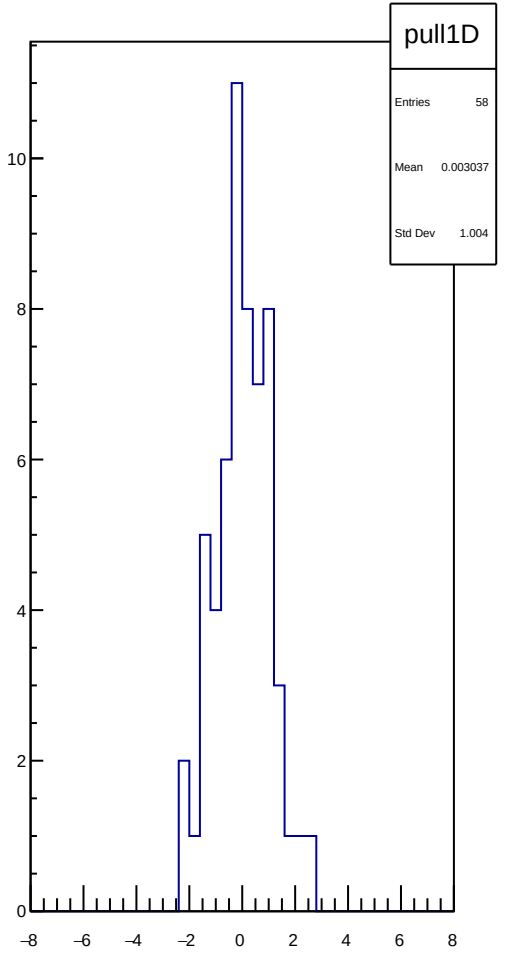

reg_asym_atr1_rms vs run
χ² / ndf 62.03 / 57
p0 2791 ± 2.652
2860
2840
2820
2800
2780
2760
2740
2720

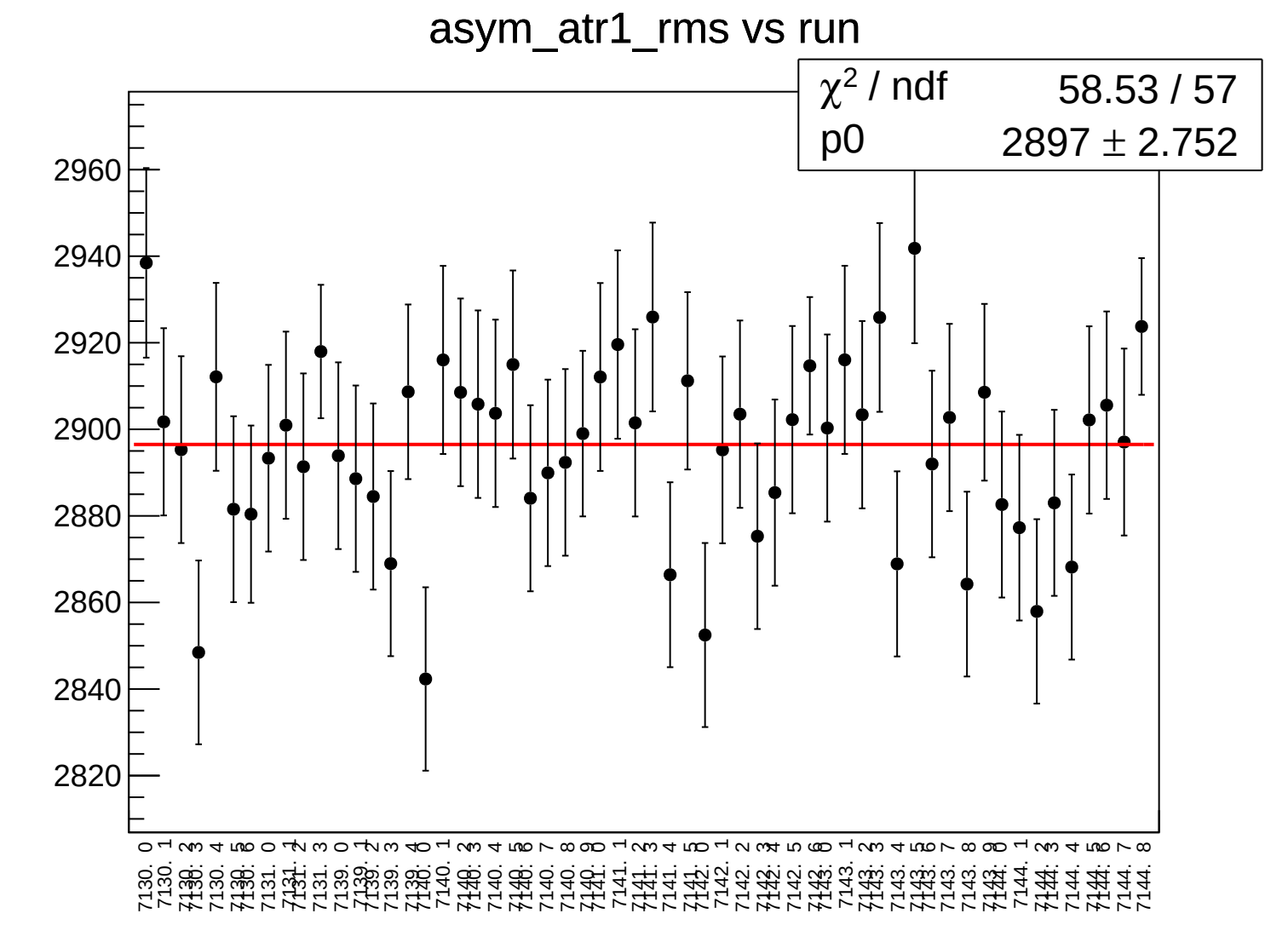

asym_atr1_correction_mean vs run
χ² / ndf 56.35 / 57
p0 991.4 ± 1033
20000
10000
0
−10000
−20000
−30000
pull
Entries 58
Mean −6.267
Std Dev 36.71
2
1
0
−1
−2

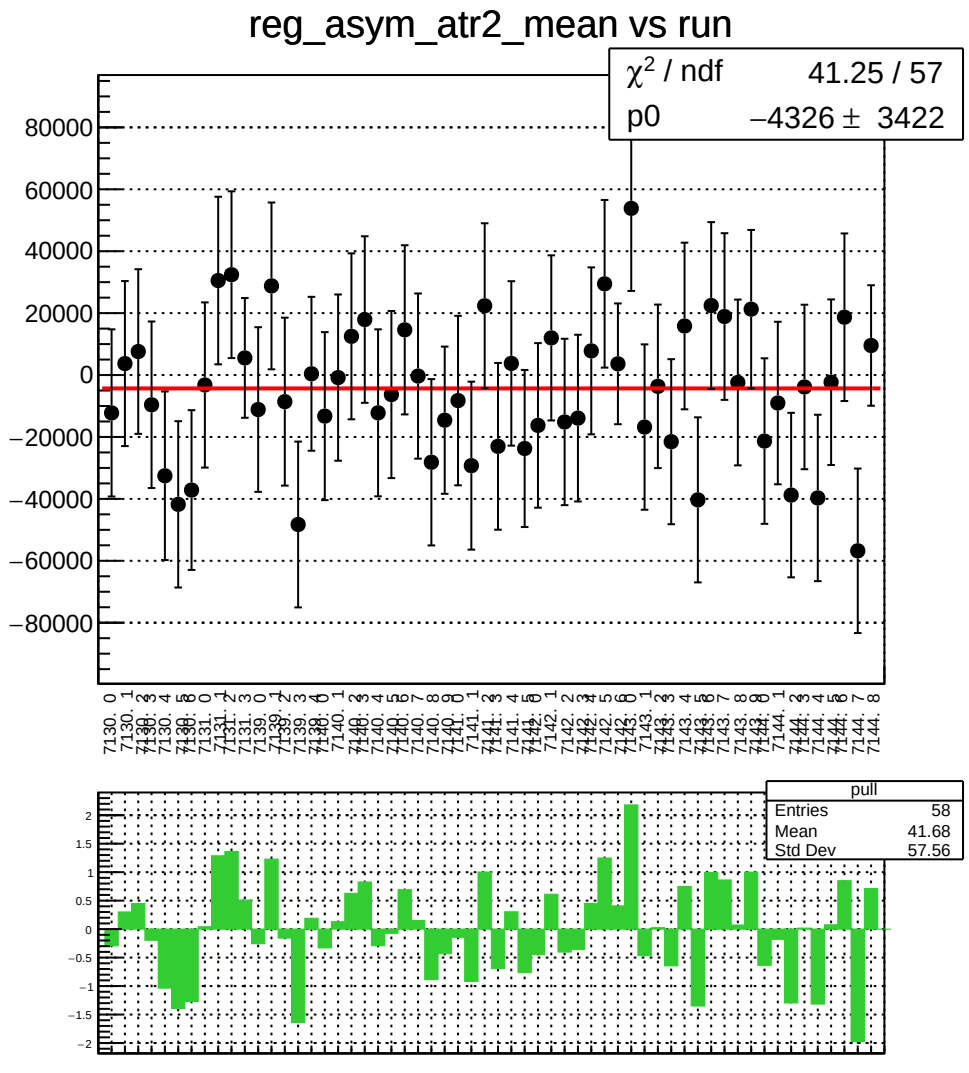

pull1D
Entries 58
Mean −0.02523
Std Dev 0.9854
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

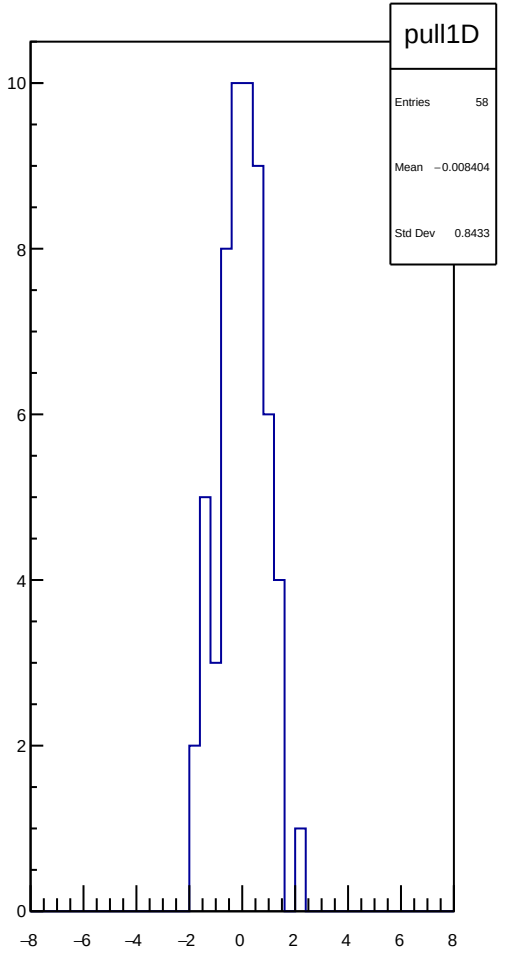

asym_atr1_correction_rms vs run
χ² / ndf 4299 / 57
p0 767.6 ± 0.7307
900
850
800
750
700
650

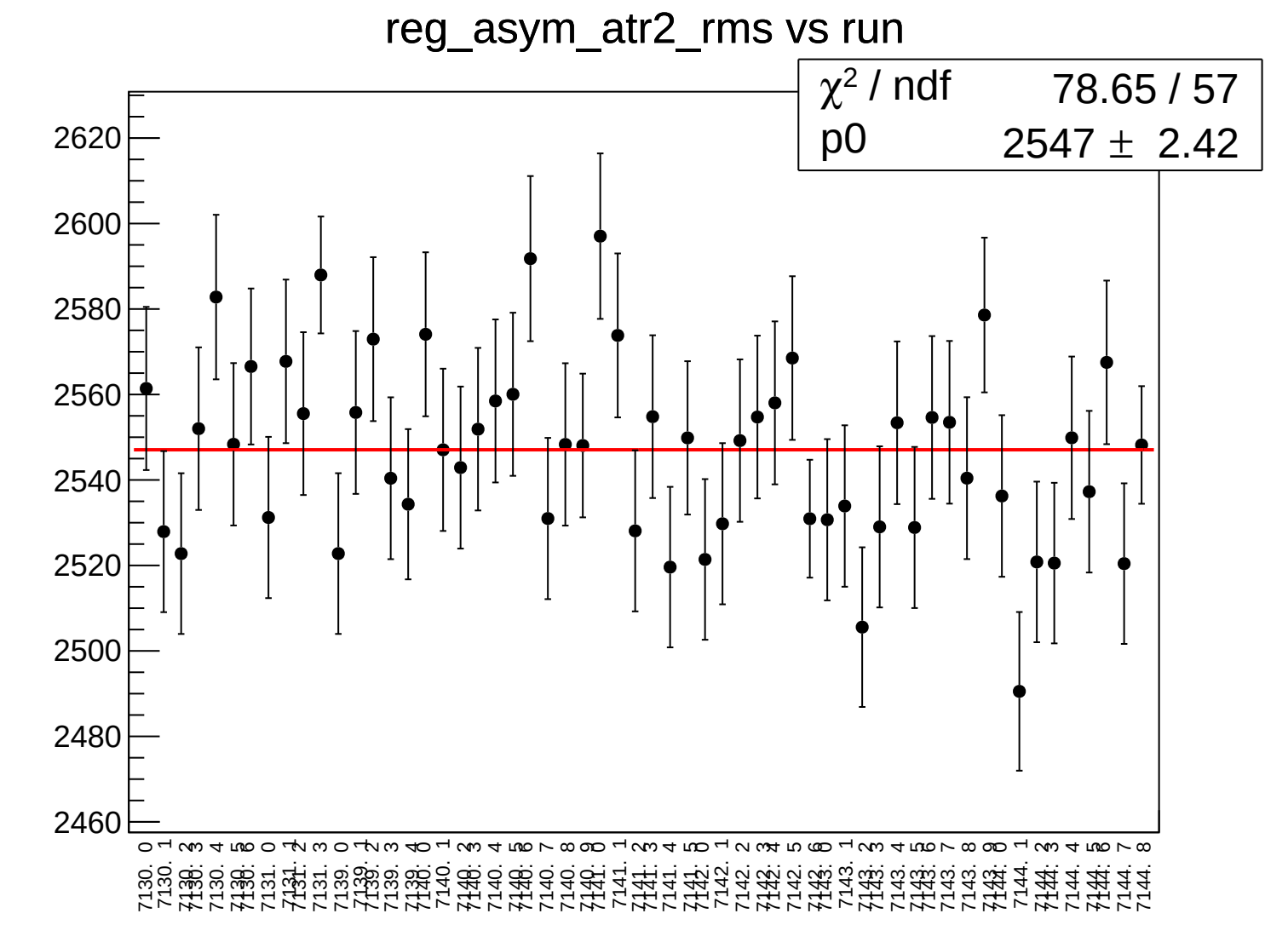

asym_atr1_mean vs run
×10^3
χ² / ndf 58.51 / 57
p0 −5157 ± 3892
100
50
0
−50
−100
pull
Entries 58
Mean −759.5
Std Dev 794.4
2
1
0
−1
−2

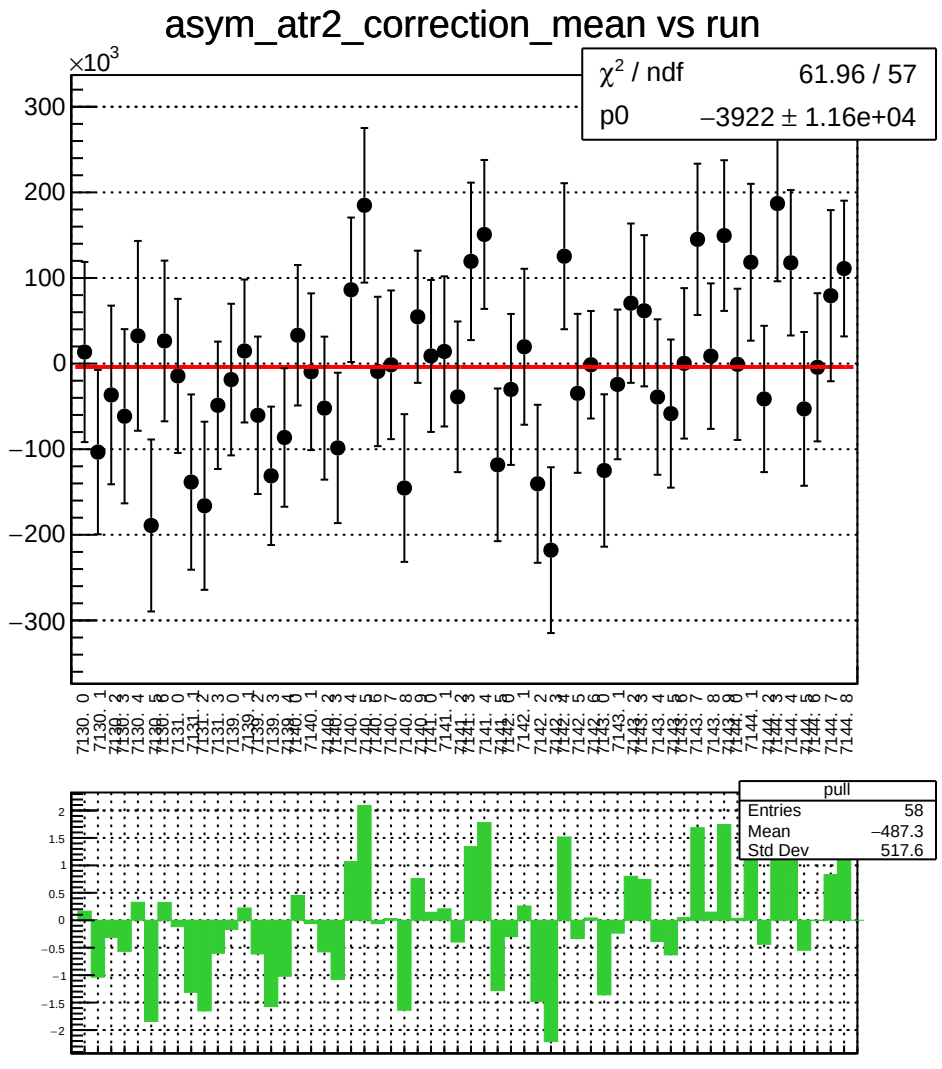

pull1D
Entries 58
Mean 0.003037
Std Dev 1.004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

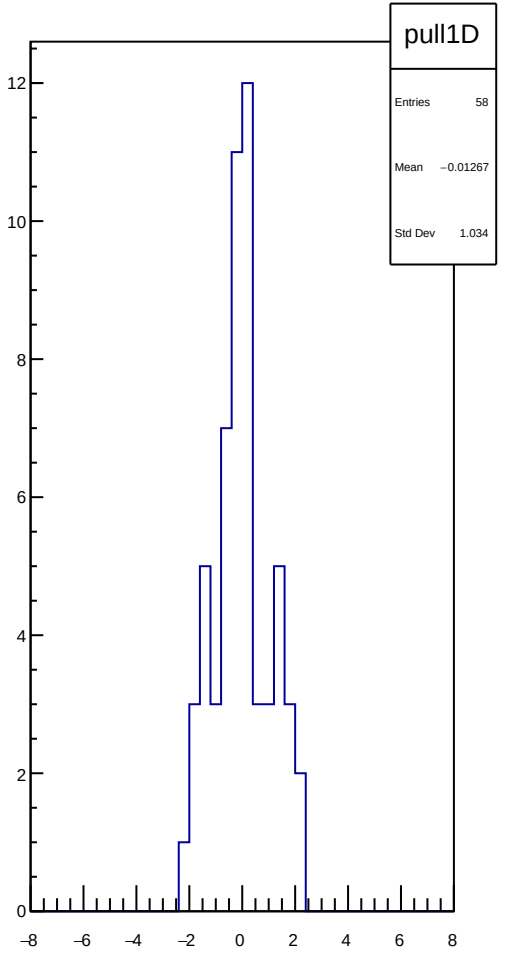

asym_atr1_rms vs run
χ^2 / ndf 58.53 / 57
p0 2897 ± 2.752
2960
2940
2920
2900
2880
2860
2840
2820

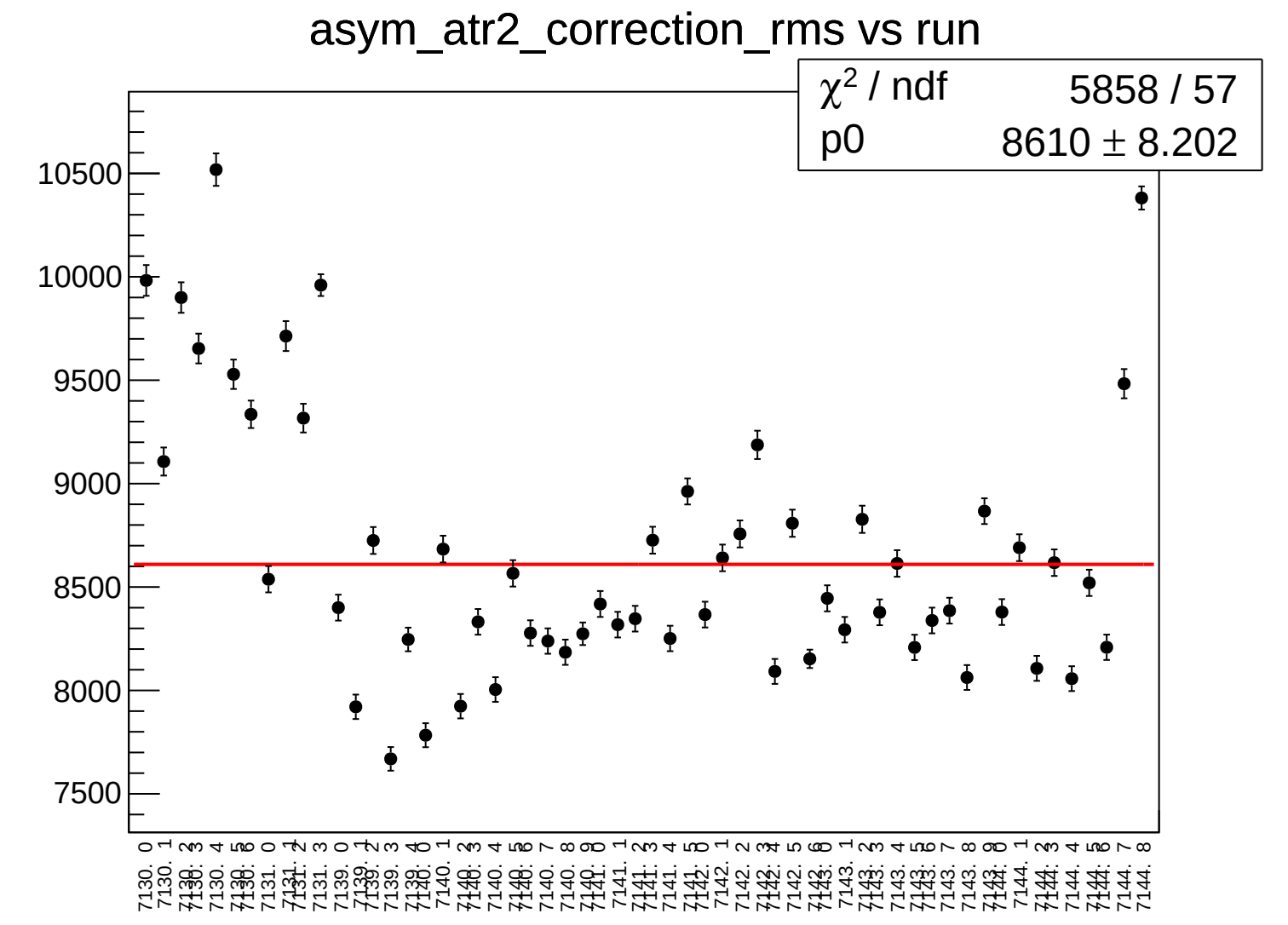

reg_asym_atr2_mean vs run
χ² / ndf 41.25 / 57
p0 −4326 ± 3422
pull
Entries 58
Mean 41.68
Std Dev 57.56

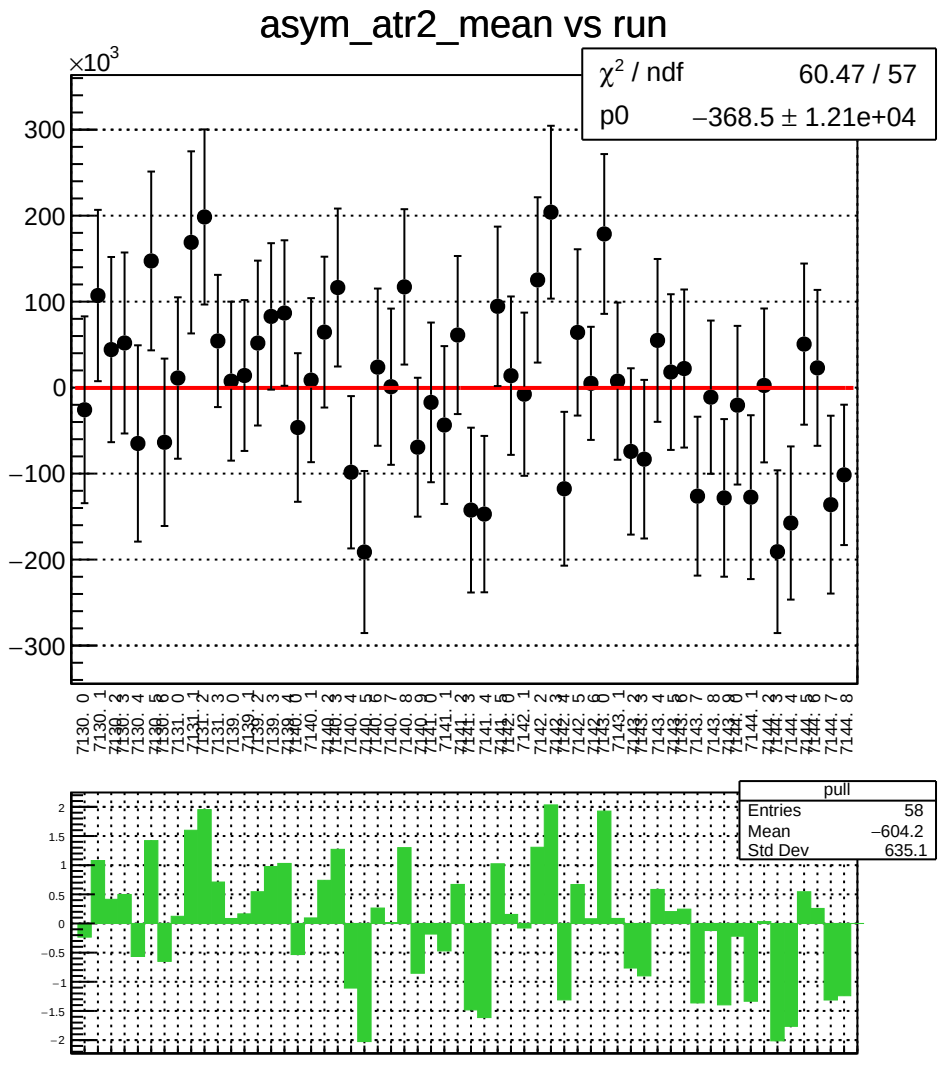

pull1D
Entries 58
Mean −0.008404
Std Dev 0.8433

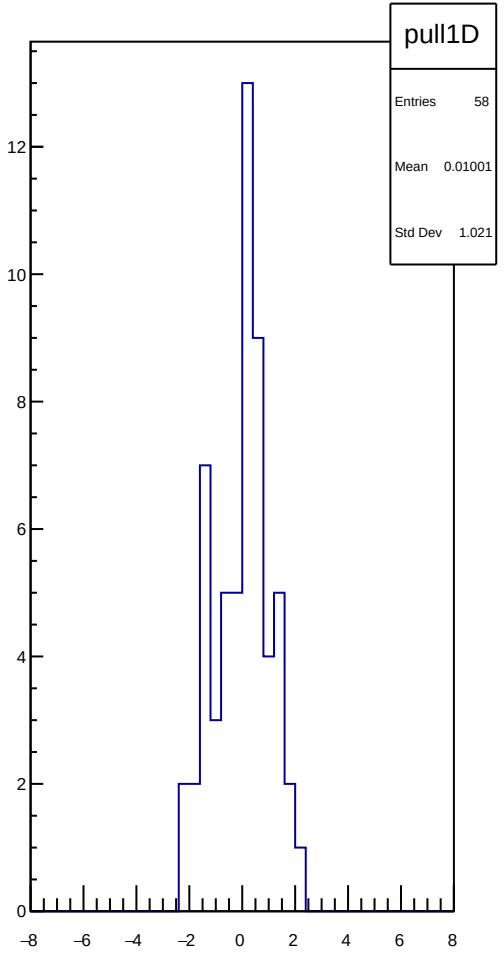

reg_asym_atr2_rms vs run
χ² / ndf 78.65 / 57
p0 2547 ± 2.42
2620
2600
2580
2560
2540
2520
2500
2480
2460

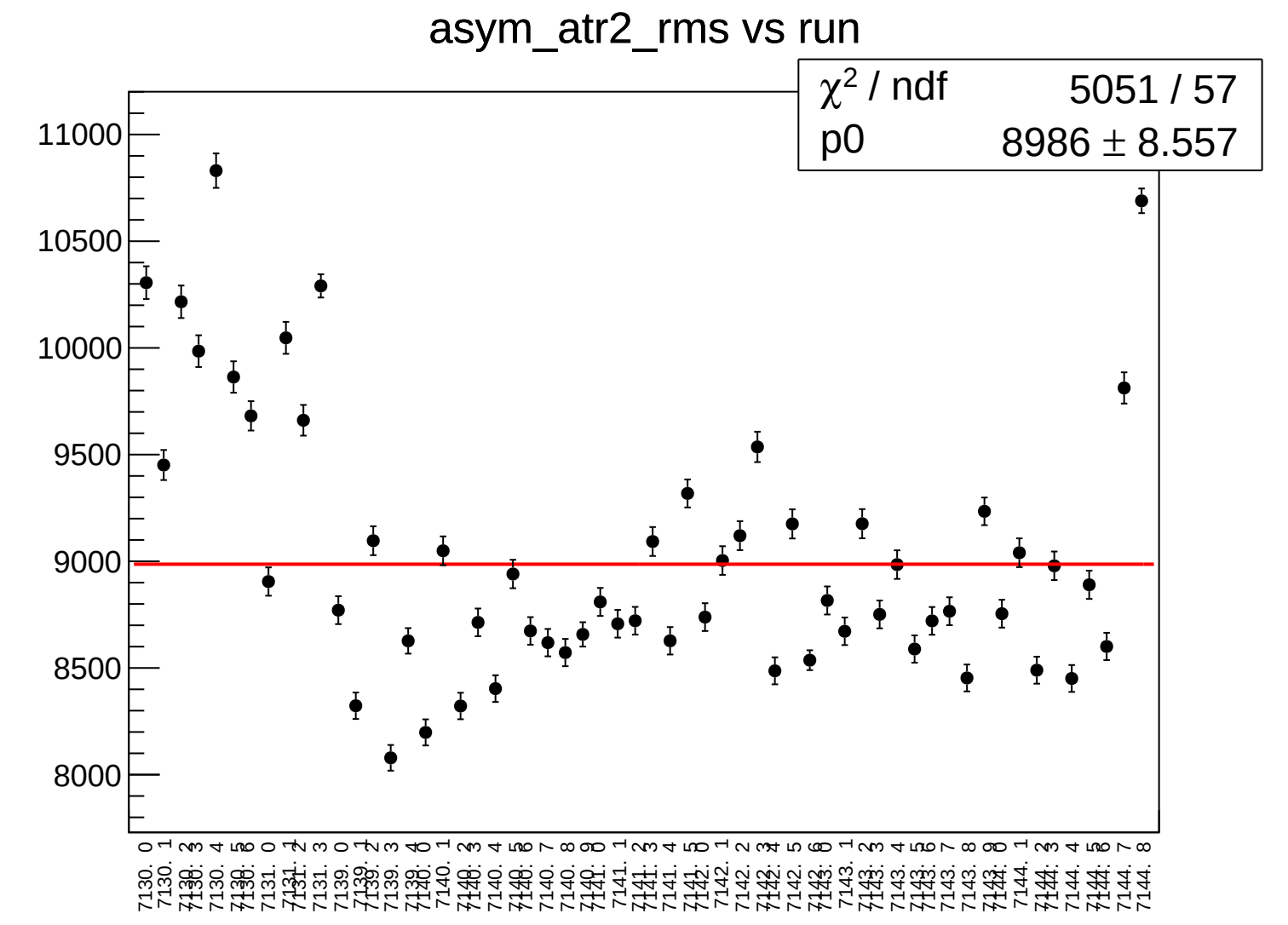

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 61.96 / 57
p0 −3922 ± 1.16e+04
300
200
100
0
−100
−200
−300
pull
Entries 58
Mean −487.3
Std Dev 517.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

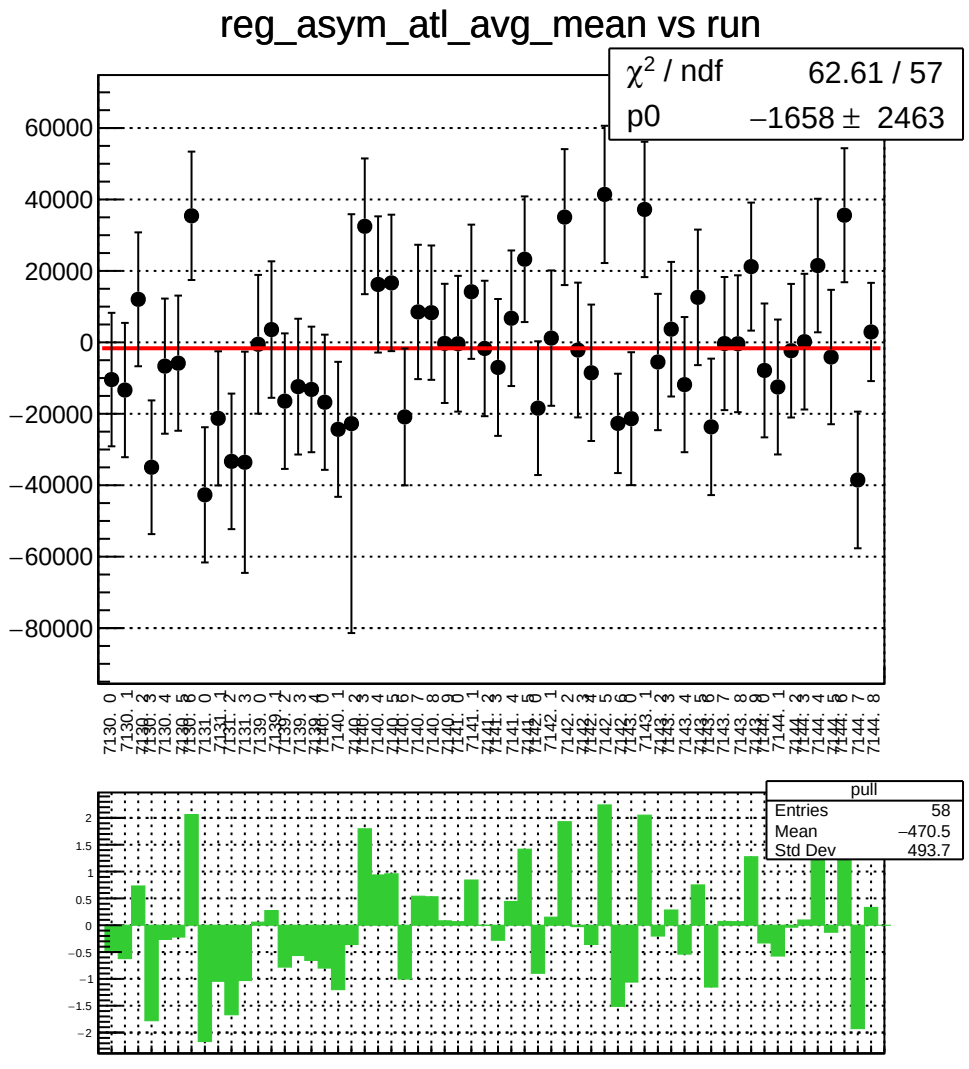

pull1D
Entries 58
Mean −0.01267
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

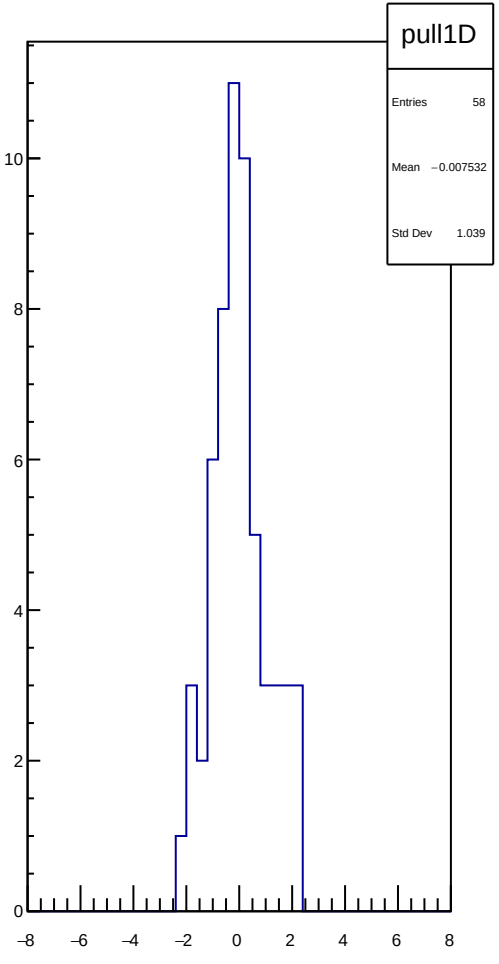

asym_atr2_correction_rms vs run
χ² / ndf 5858 / 57
p0 8610 ± 8.202
10500
10000
9500
9000
8500
8000
7500

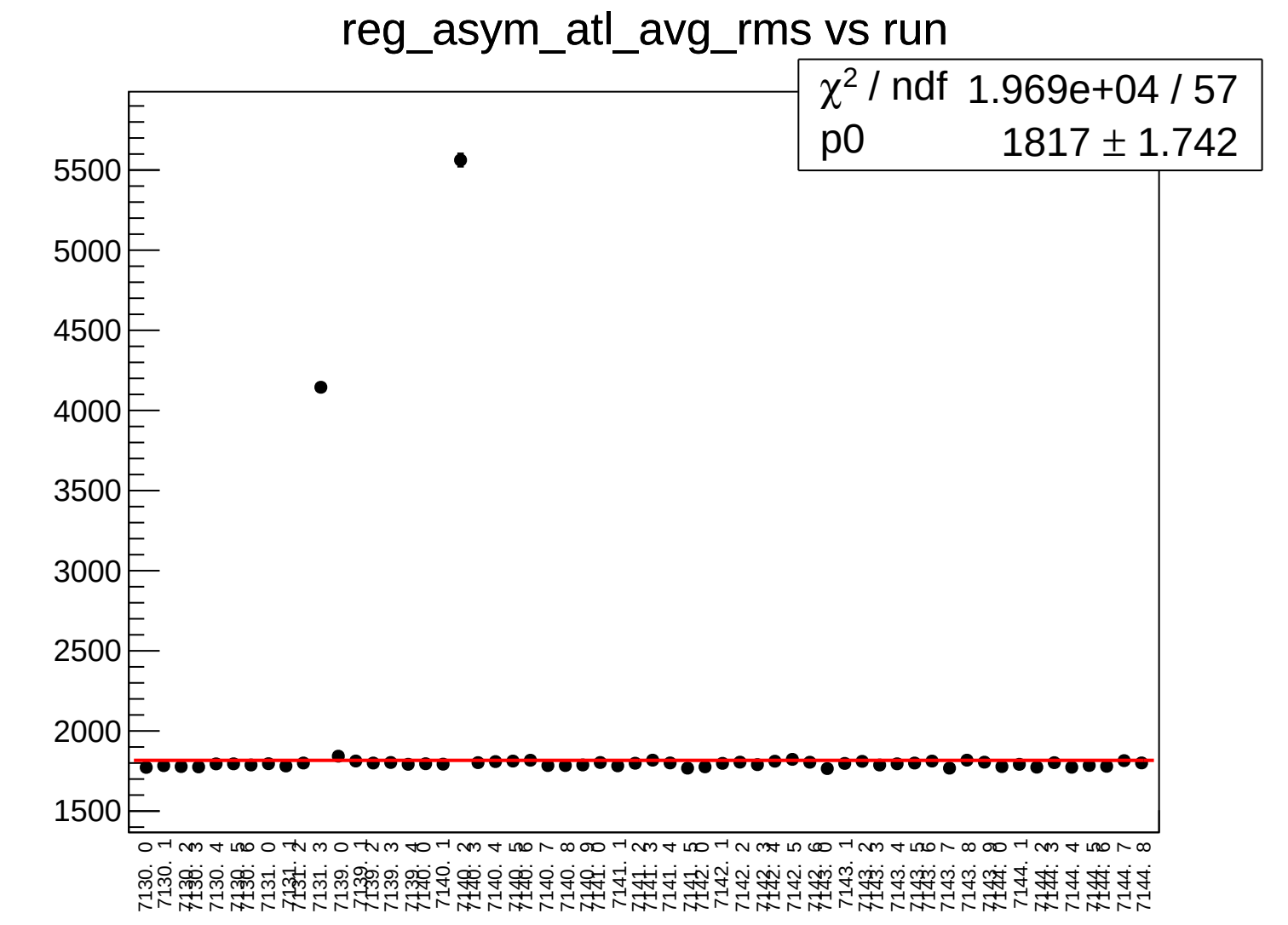

asym_atr2_mean vs run
×10^3
χ² / ndf 60.47 / 57
p0 −368.5 ± 1.21e+04
300
200
100
0
−100
−200
−300
pull
Entries 58
Mean −604.2
Std Dev 635.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

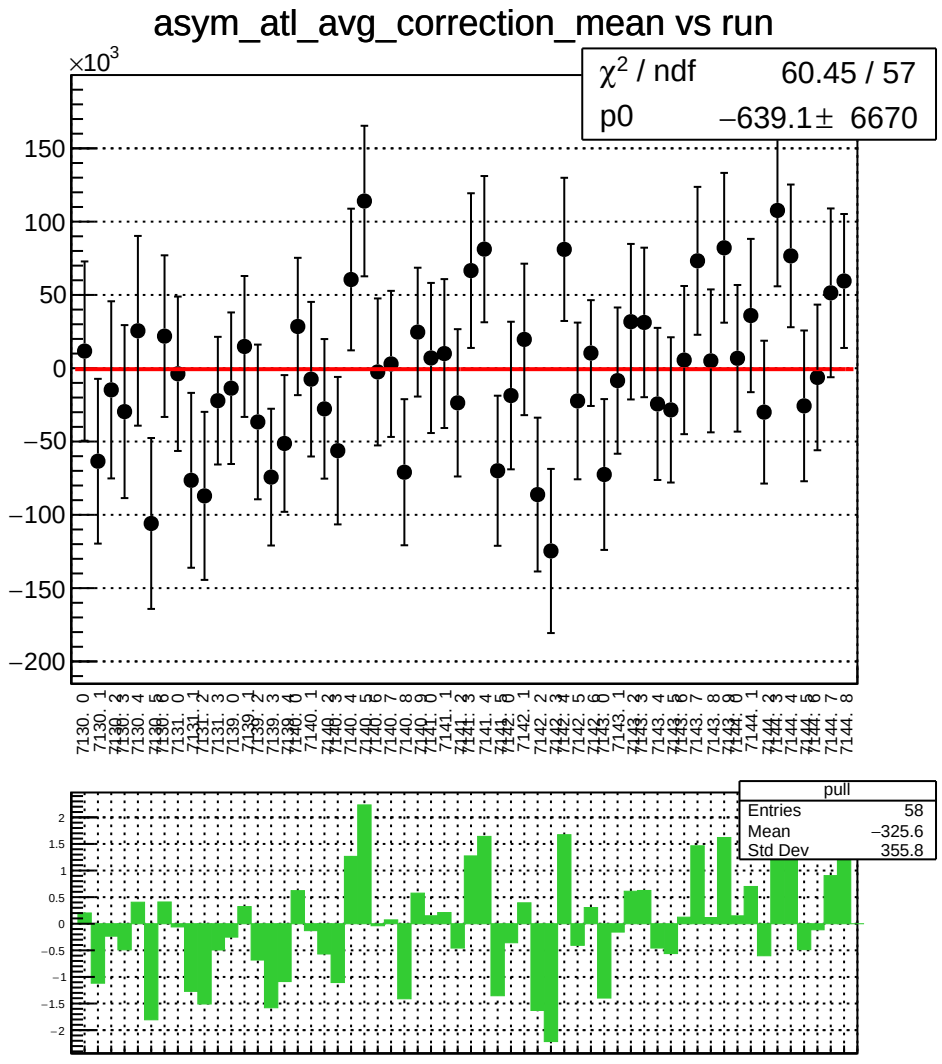

pull1D
Entries 58
Mean 0.01001
Std Dev 1.021
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

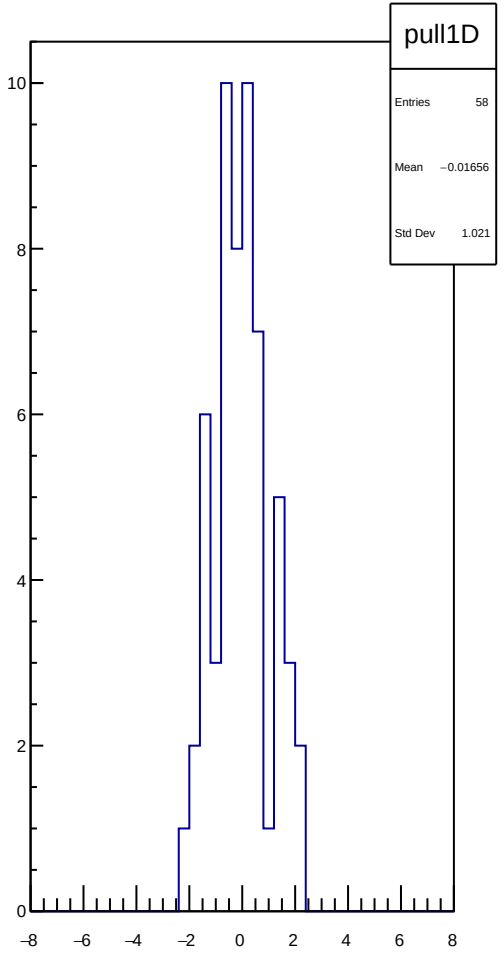

asym_atr2_rms vs run
χ² / ndf 5051 / 57
p0 8986 ± 8.557
11000
10500
10000
9500
9000
8500
8000

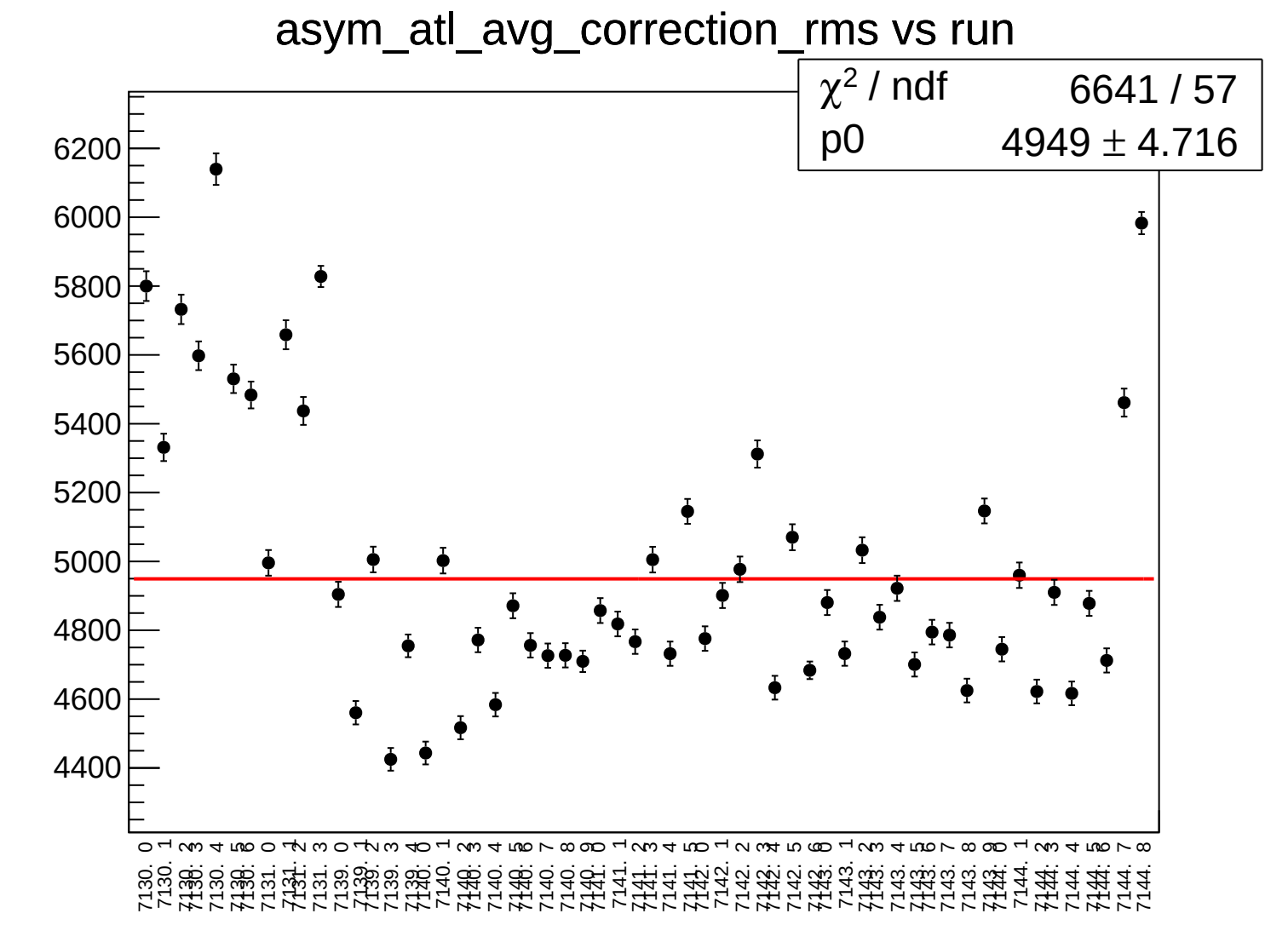

reg_asym_atl_avg_mean vs run
χ² / ndf 62.61 / 57
p0 −1658 ± 2463
pull
Entries 58
Mean −470.5
Std Dev 493.7

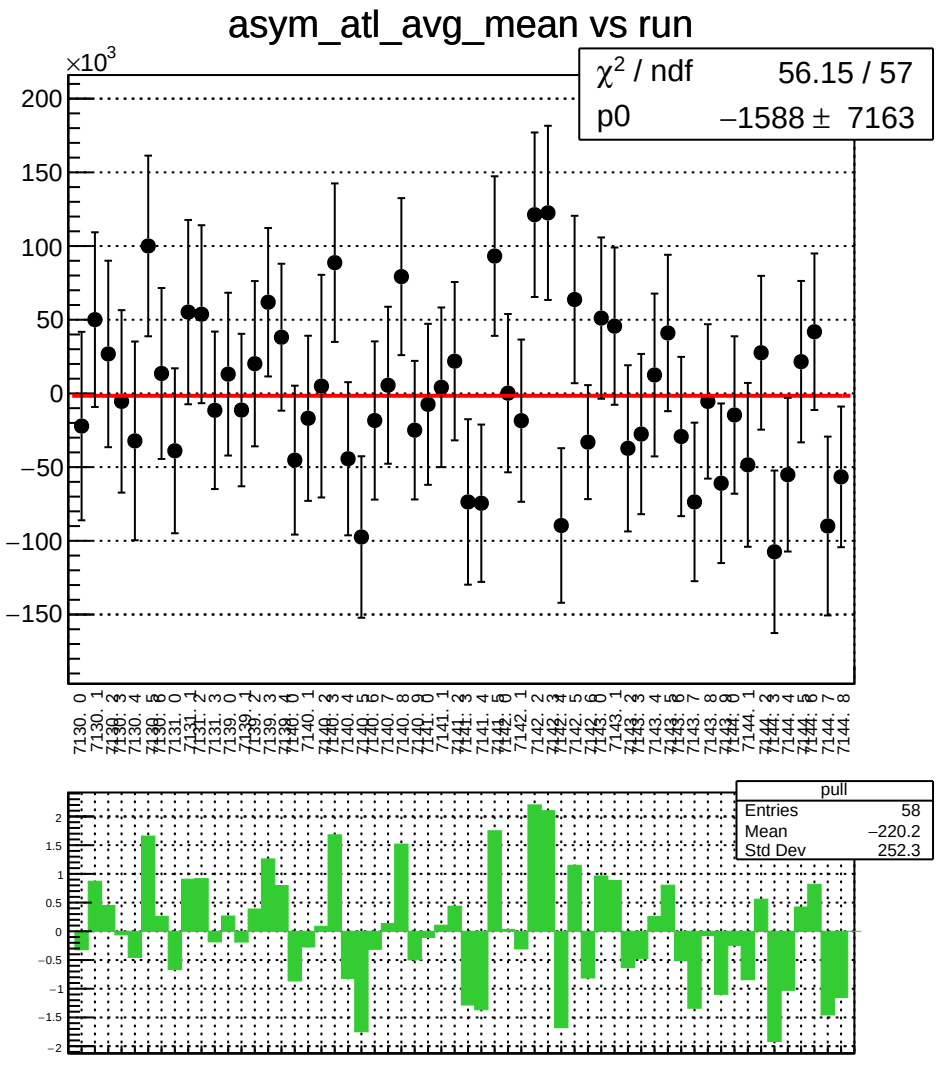

pull1D
Entries 58
Mean −0.007532
Std Dev 1.039

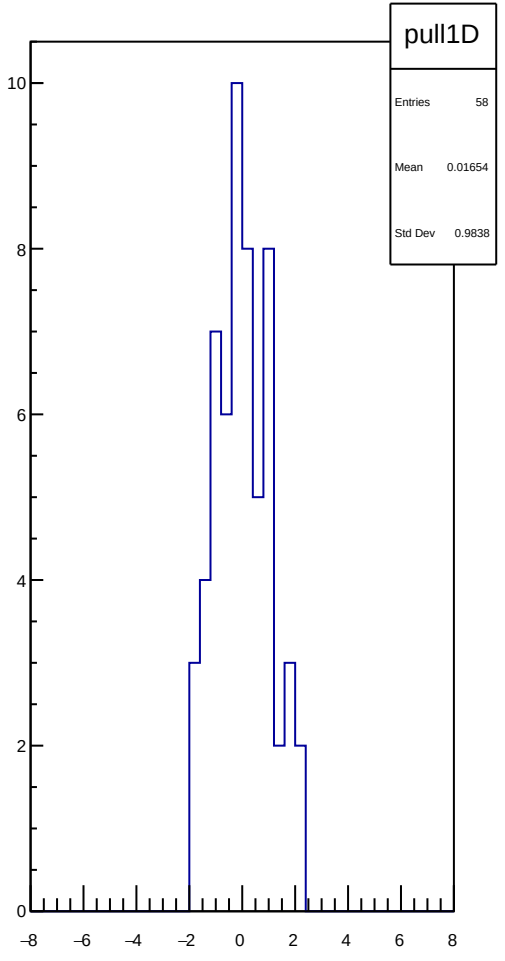

reg_asym_atl_avg_rms vs run
χ² / ndf 1.969e+04 / 57
p0 1817 ± 1.742
5500
5000
4500
4000
3500
3000
2500
2000
1500

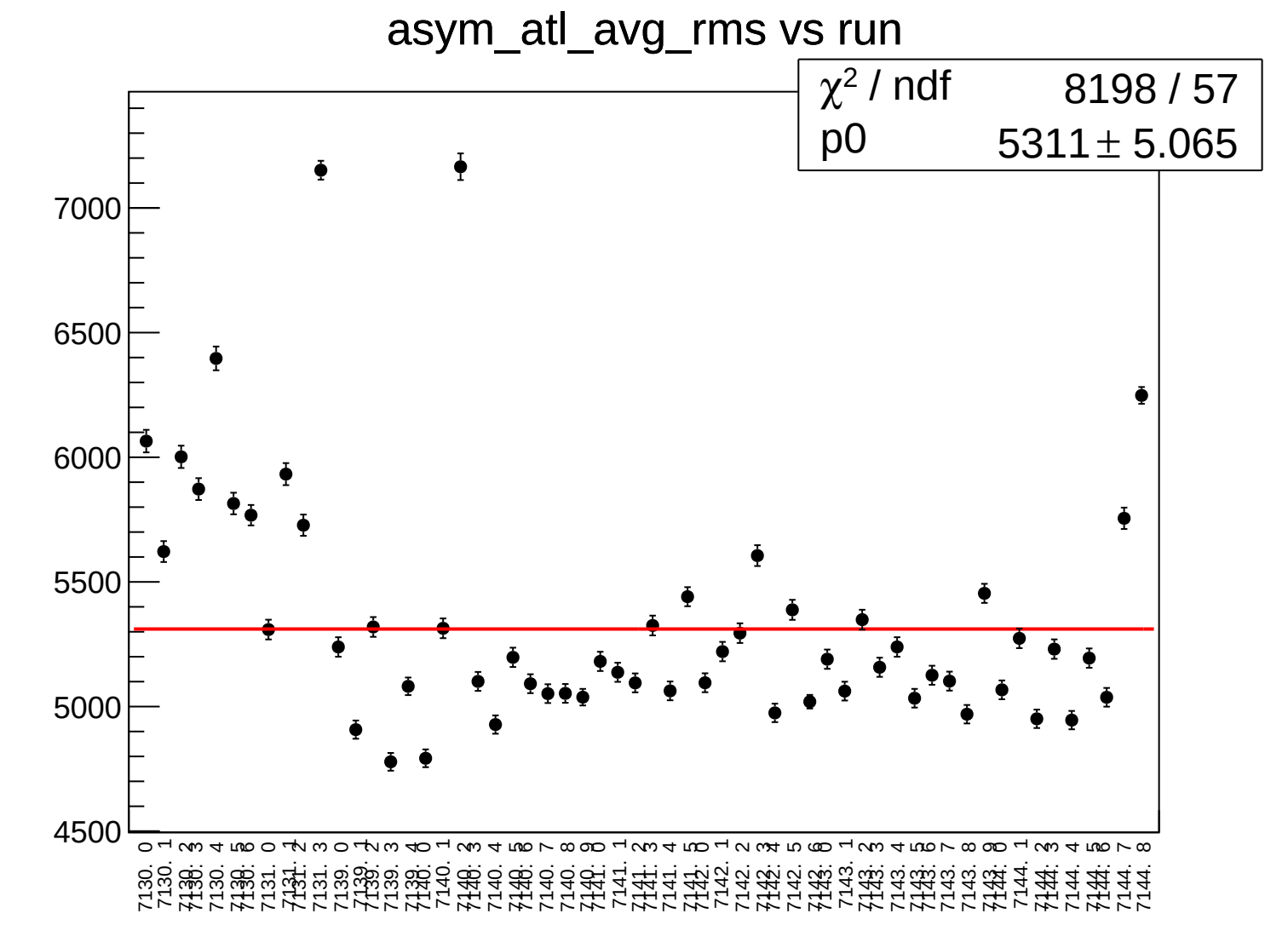

asym_atl_avg_correction_mean vs run
×10^3
χ^2 / ndf 60.45 / 57
p0 −639.1± 6670
150
100
50
0
−50
−100
−150
−200
pull
Entries 58
Mean −325.6
Std Dev 355.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

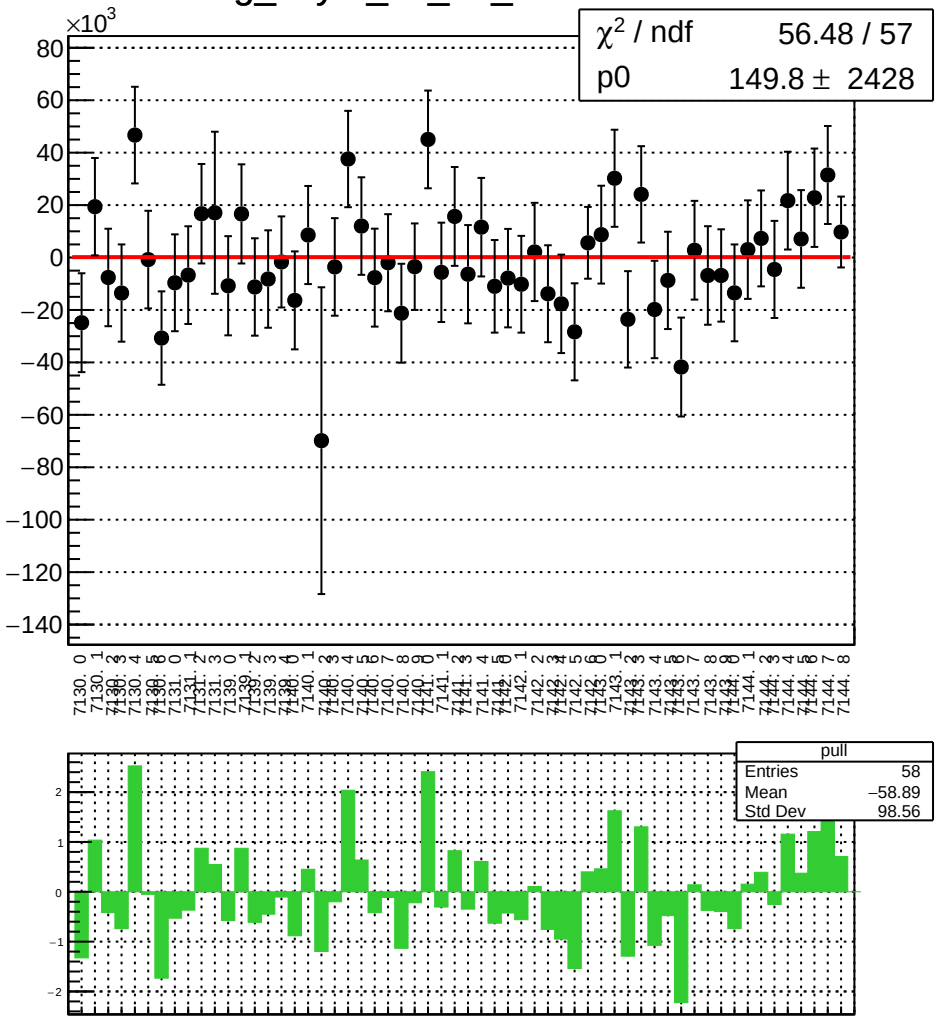

pull1D
Entries 58
Mean −0.01656
Std Dev 1.021
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

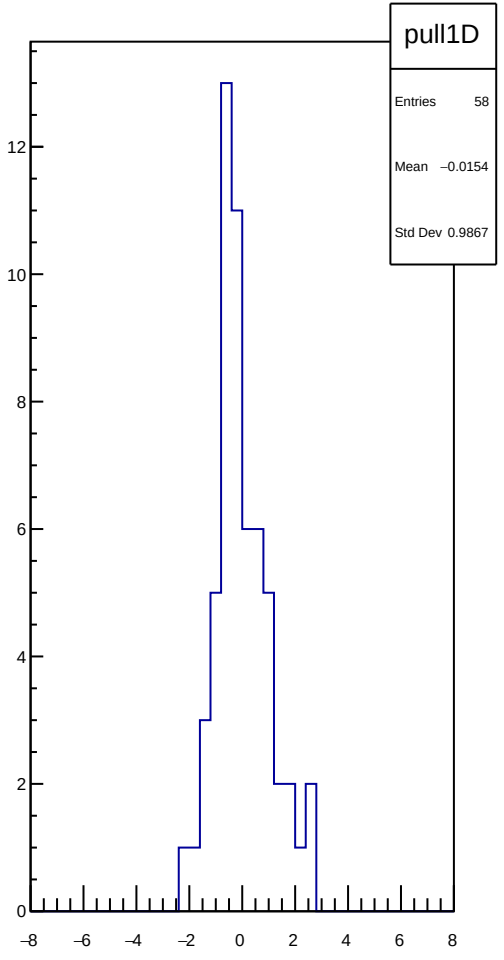

asym_atl_avg_correction_rms vs run
χ² / ndf 6641 / 57
p0 4949 ± 4.716
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

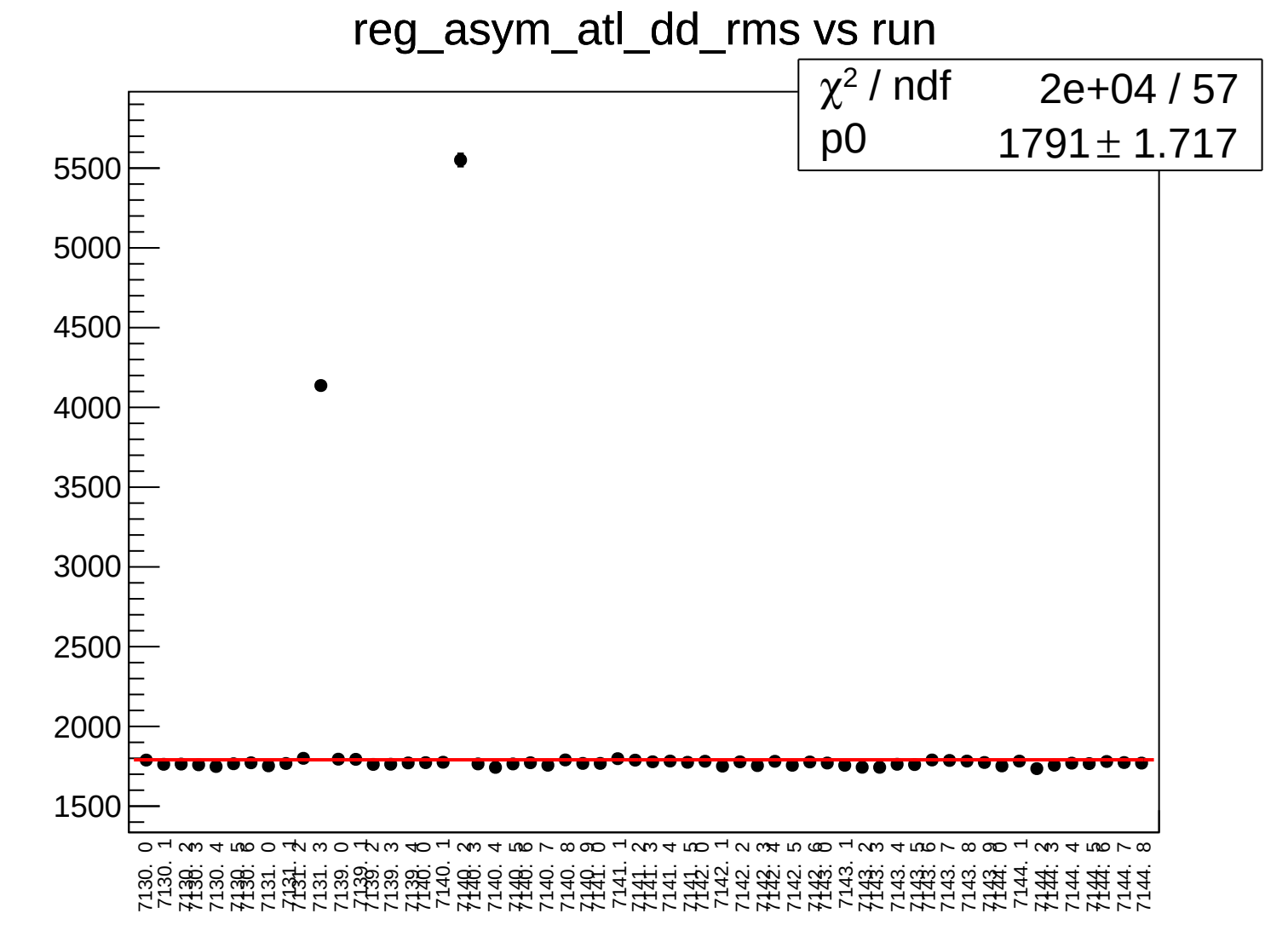

asym_atl_avg_mean vs run
×10^3
χ² / ndf 56.15 / 57
p0 −1588 ± 7163
pull
Entries 58
Mean −220.2
Std Dev 252.3

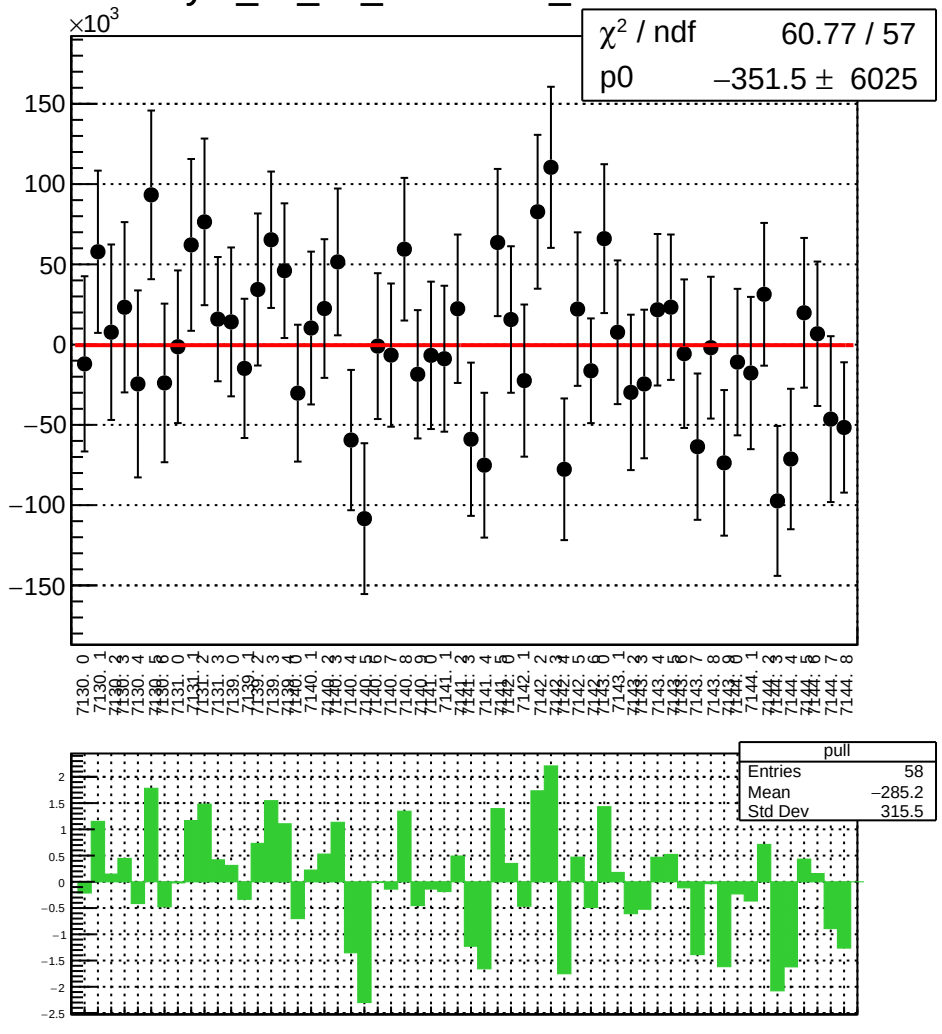

pull1D
Entries 58
Mean 0.01654
Std Dev 0.9838

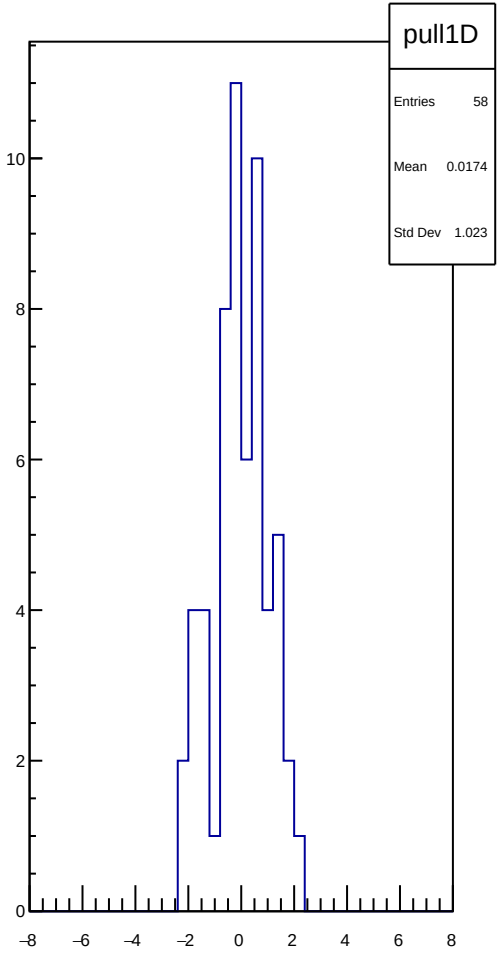

asym_atl_avg_rms vs run
χ² / ndf 8198 / 57
p0 5311 ± 5.065
7000
6500
6000
5500
5000
4500

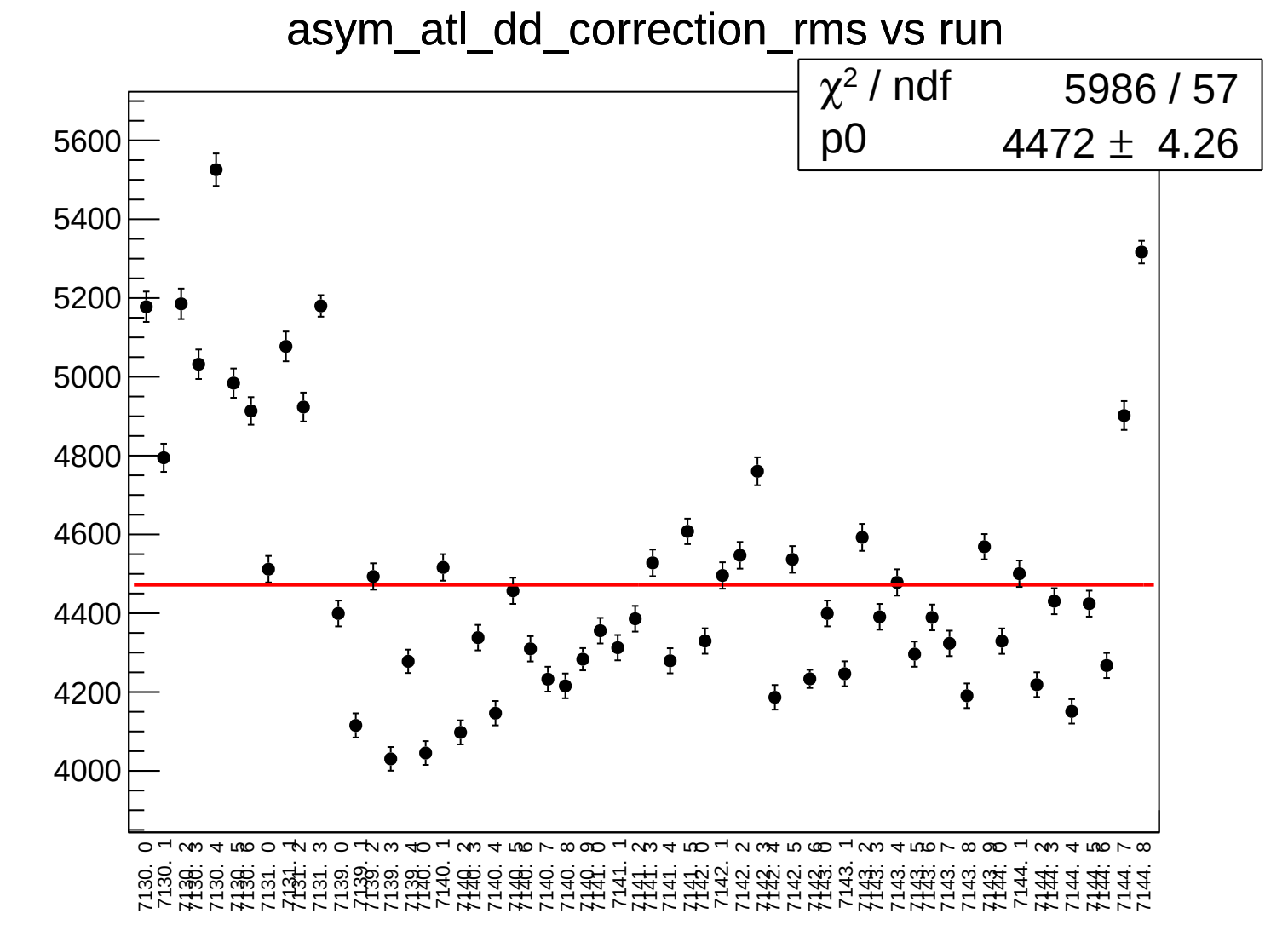

reg_asym_atl_dd_mean vs run
χ² / ndf 56.48 / 57
p0 149.8 ± 2428
pull
Entries 58
Mean −58.89
Std Dev 98.56

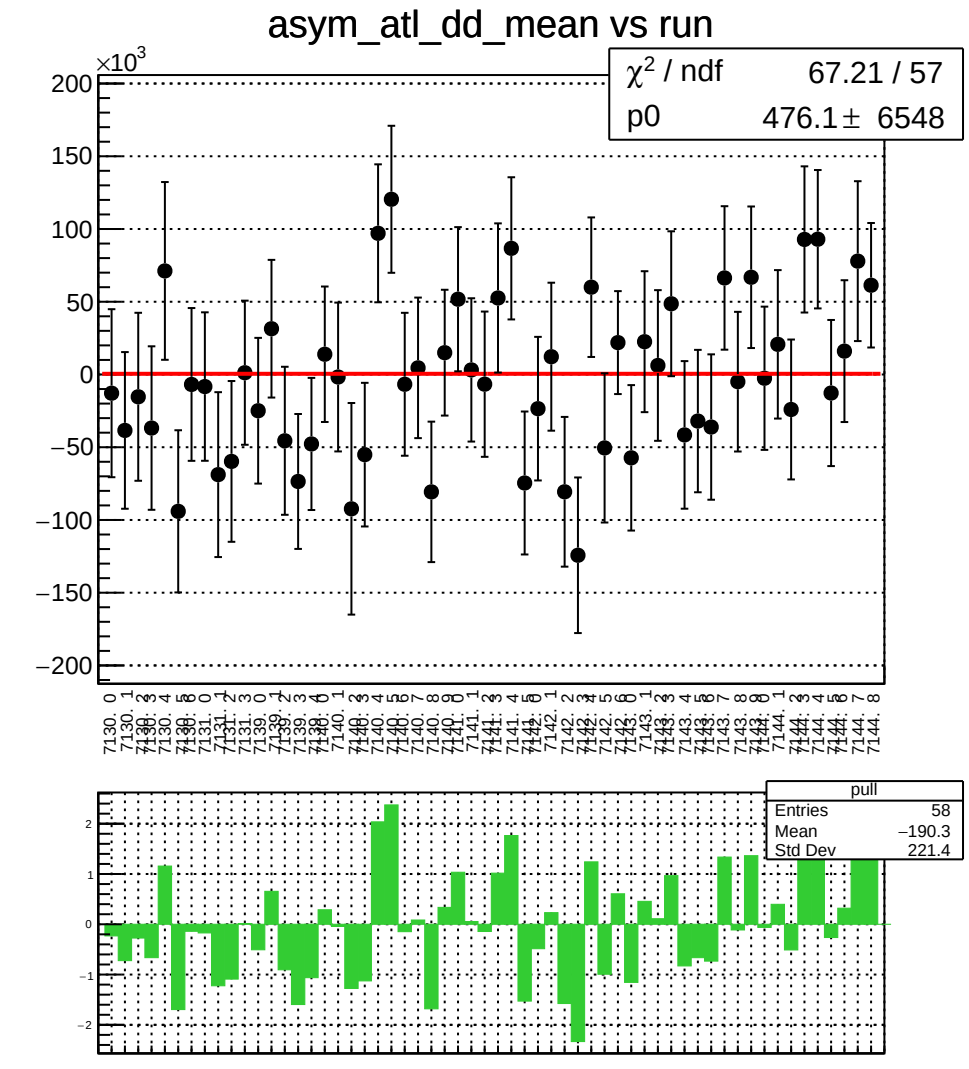

pull1D
Entries 58
Mean −0.0154
Std Dev 0.9867

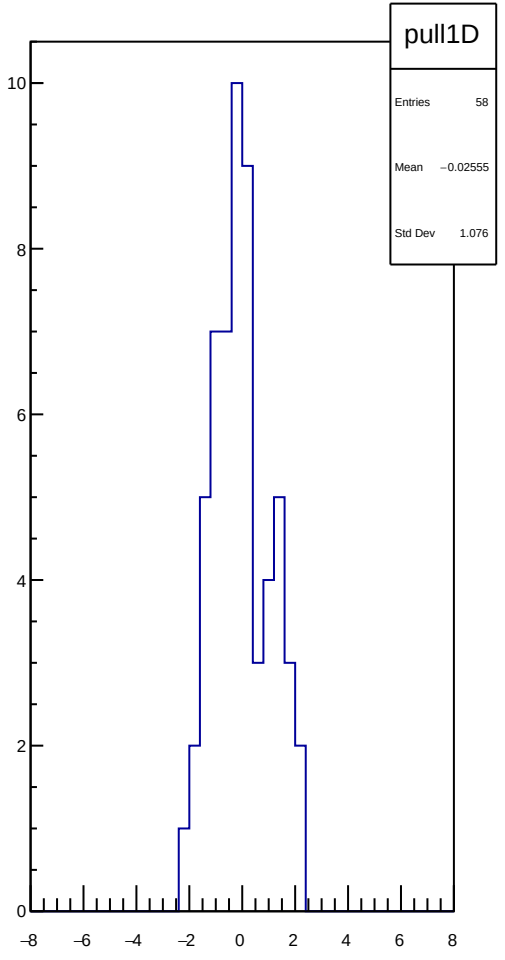

reg_asym_atl_dd_rms vs run
χ² / ndf 2e+04 / 57
p0 1791 ± 1.717
5500
5000
4500
4000
3500
3000
2500
2000
1500
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

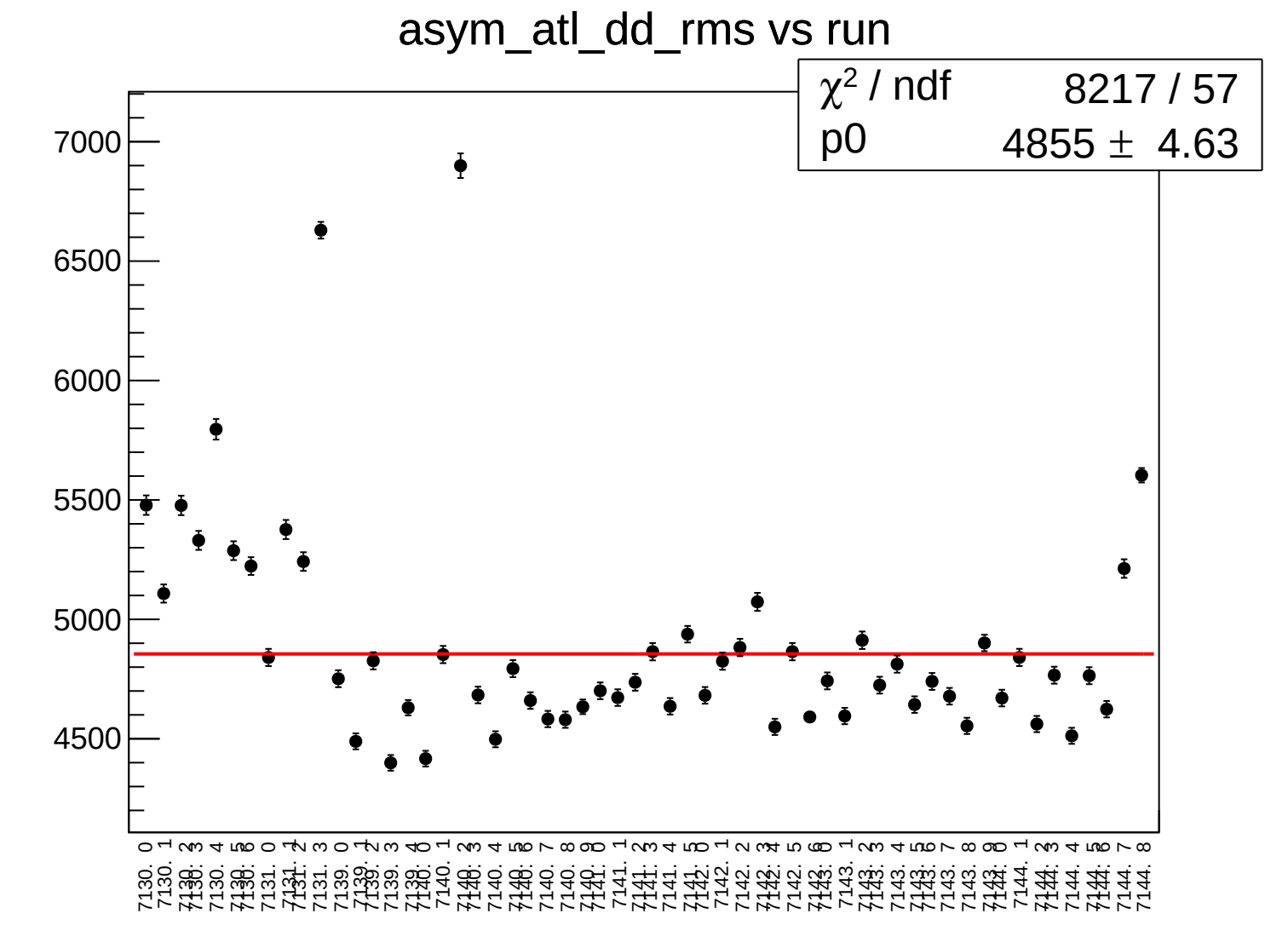

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 60.77 / 57
p0 −351.5 ± 6025
150
100
50
0
−50
−100
−150
pull
Entries 58
Mean −285.2
Std Dev 315.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

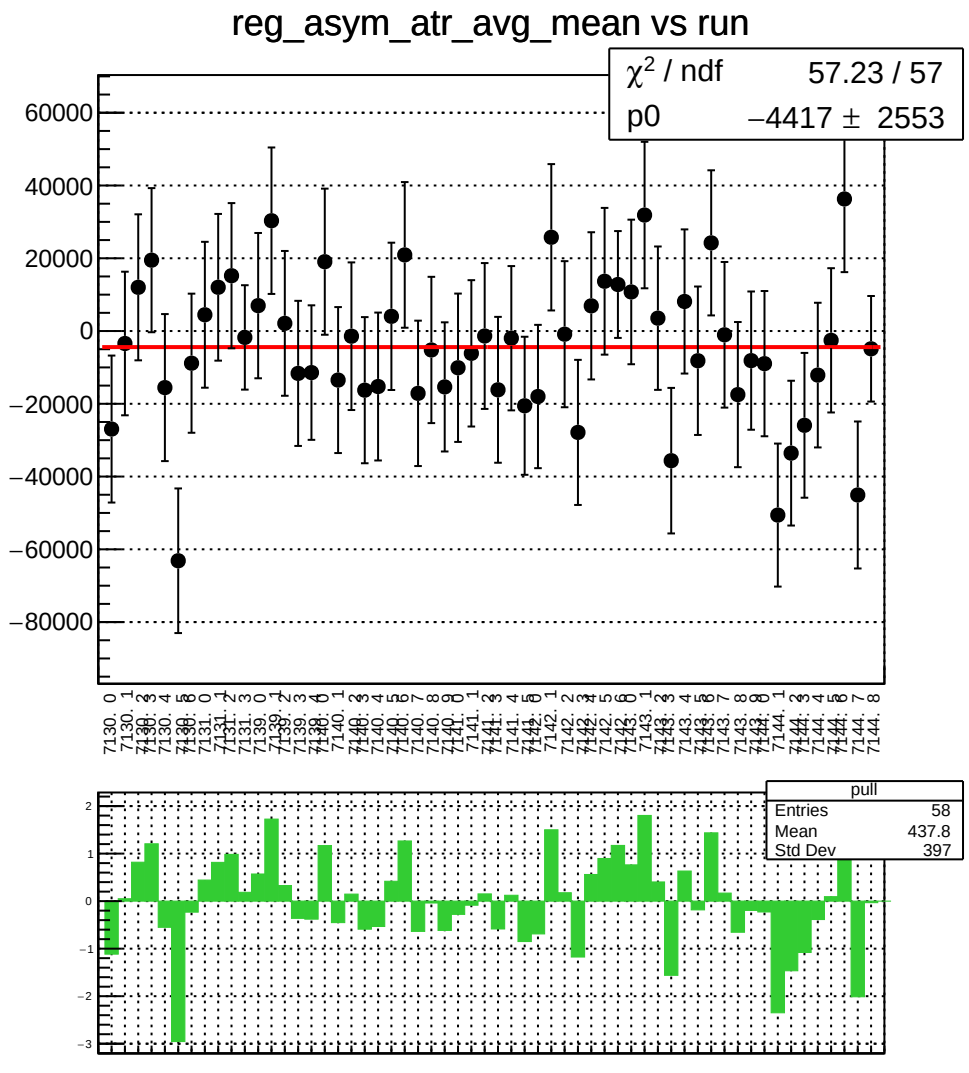

pull1D
Entries 58
Mean 0.0174
Std Dev 1.023
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

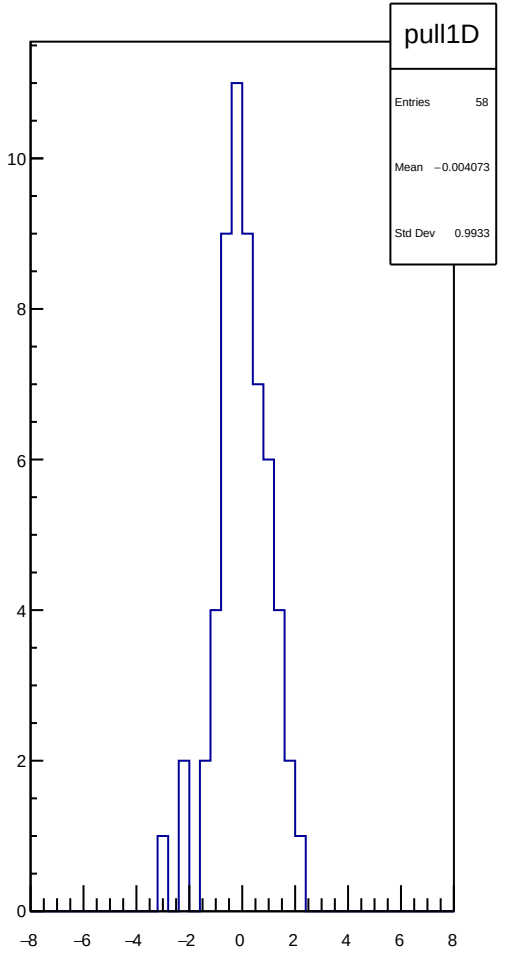

asym_atl_dd_correction_rms vs run
χ² / ndf 5986 / 57
p0 4472 ± 4.26
5600
5400
5200
5000
4800
4600
4400
4200
4000

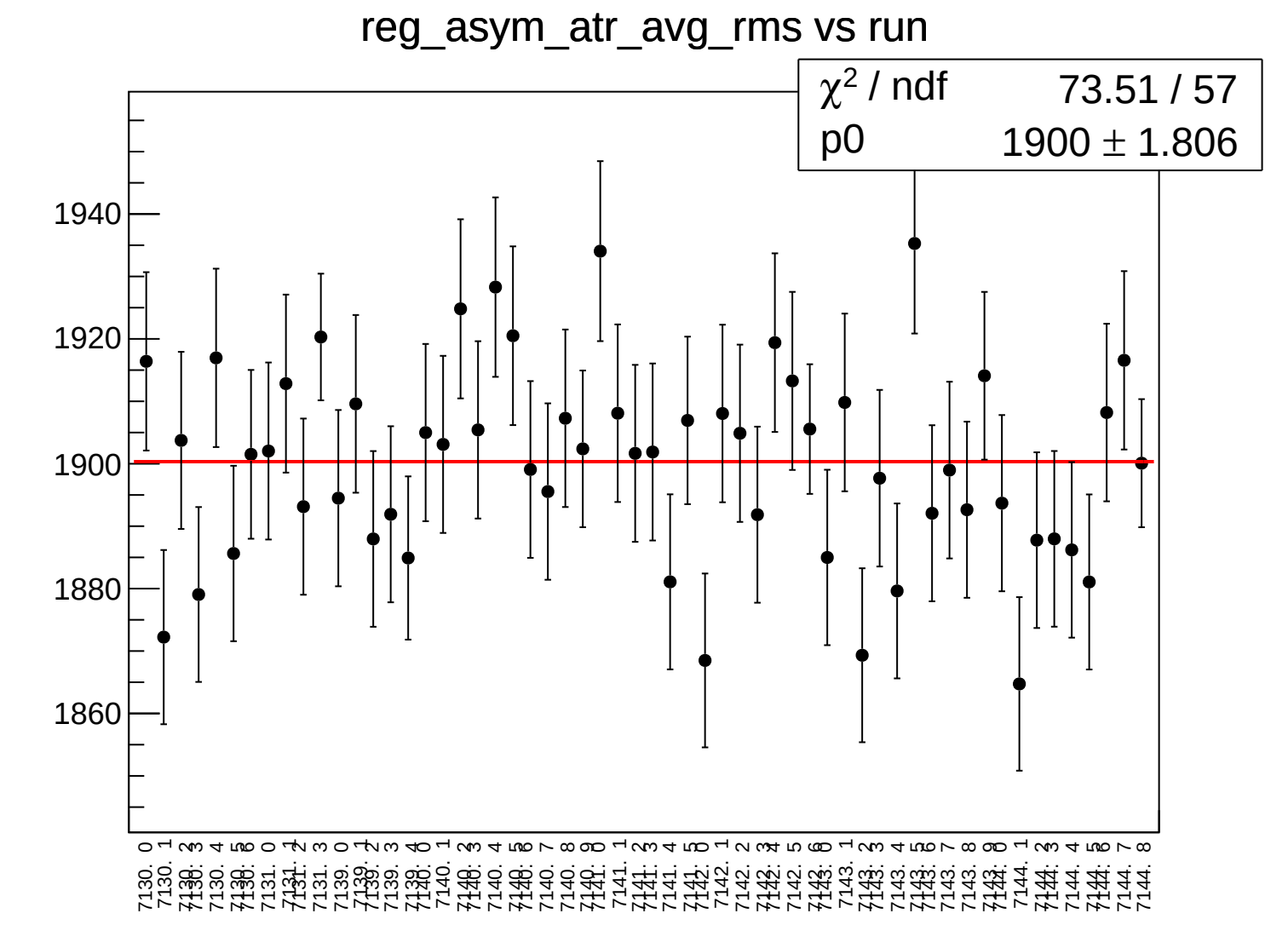

asym_atl_dd_mean vs run
×10^3
χ² / ndf 67.21 / 57
p0 476.1 ± 6548
pull
Entries 58
Mean −190.3
Std Dev 221.4

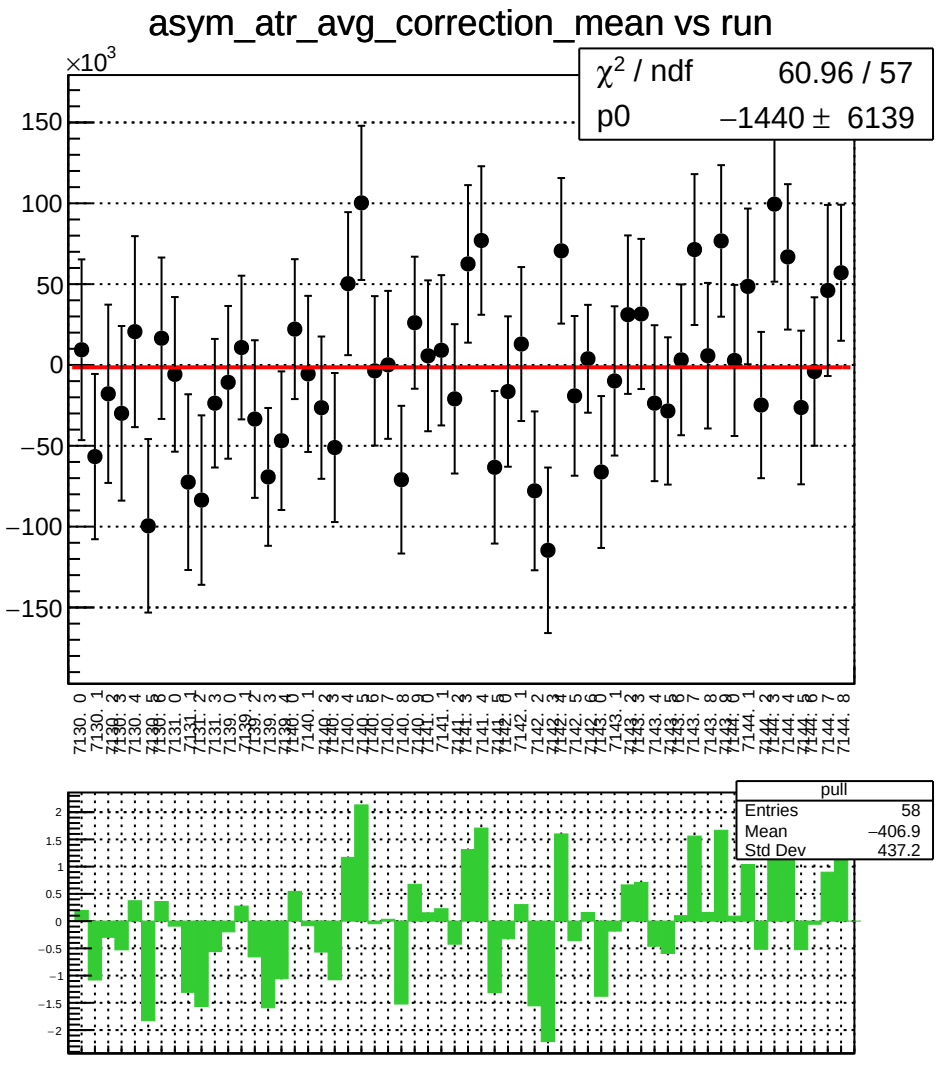

pull1D
Entries 58
Mean −0.02555
Std Dev 1.076

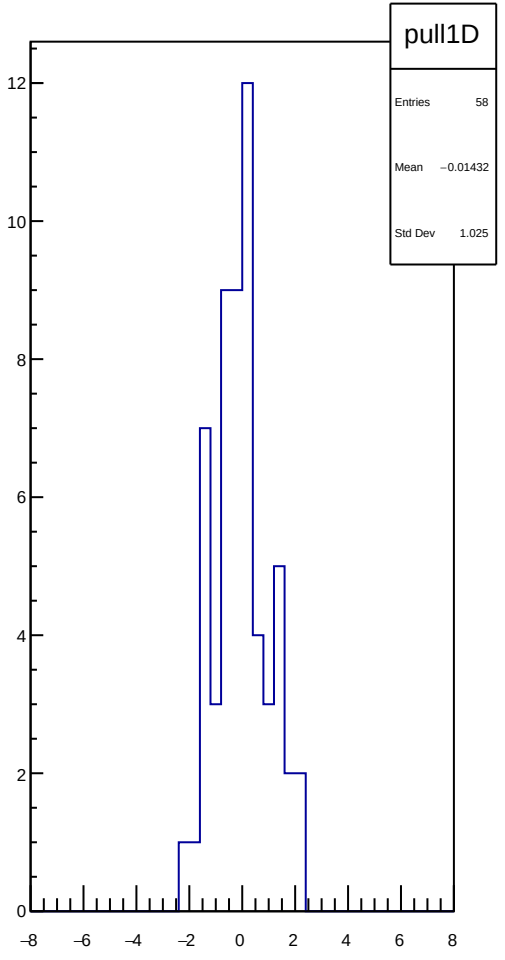

asym_atl_dd_rms vs run
χ² / ndf 8217 / 57
p0 4855 ± 4.63
7000
6500
6000
5500
5000
4500

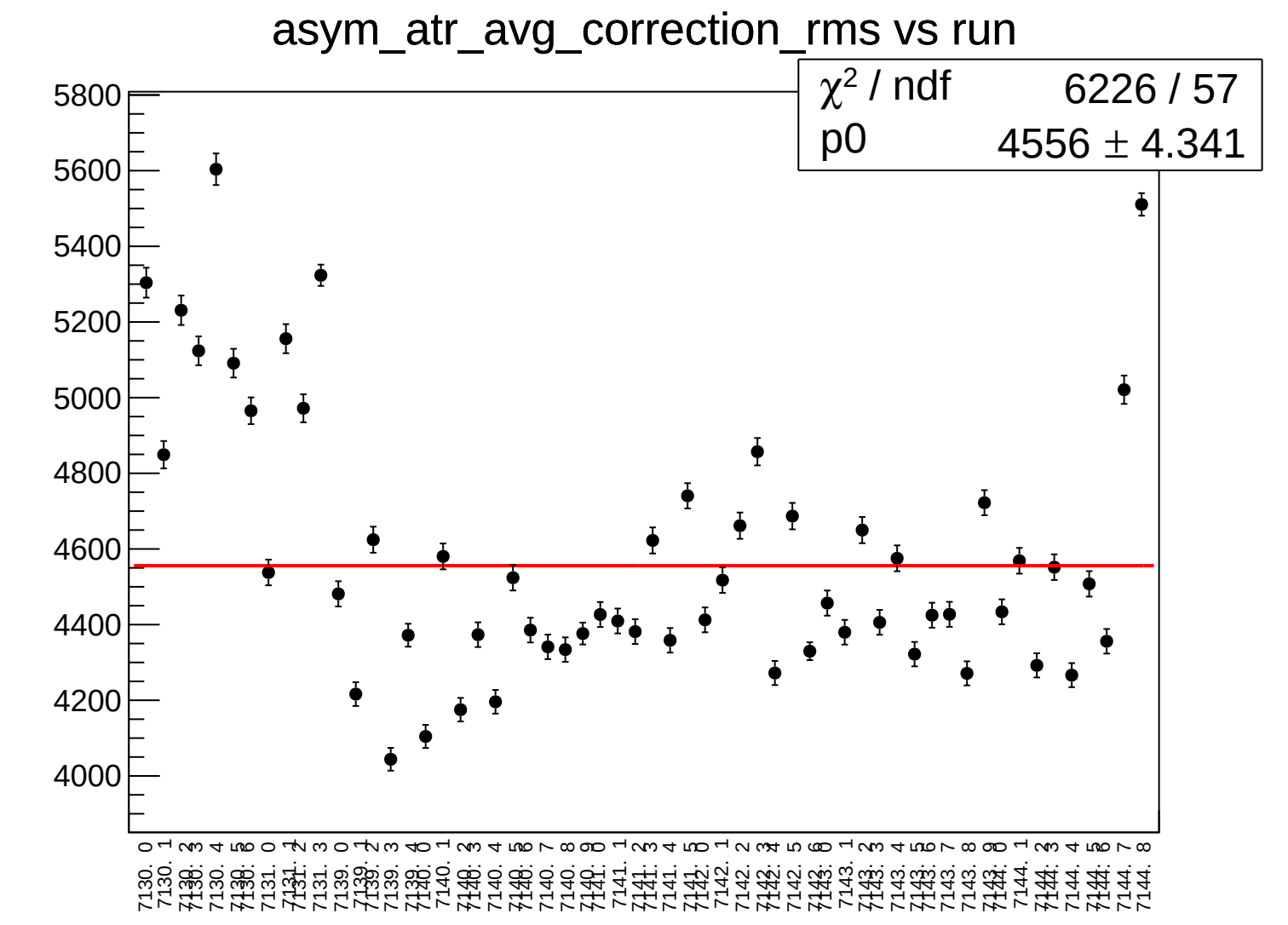

reg_asym_atr_avg_mean vs run
χ² / ndf 57.23 / 57
p0 −4417 ± 2553
pull
Entries 58
Mean 437.8
Std Dev 397

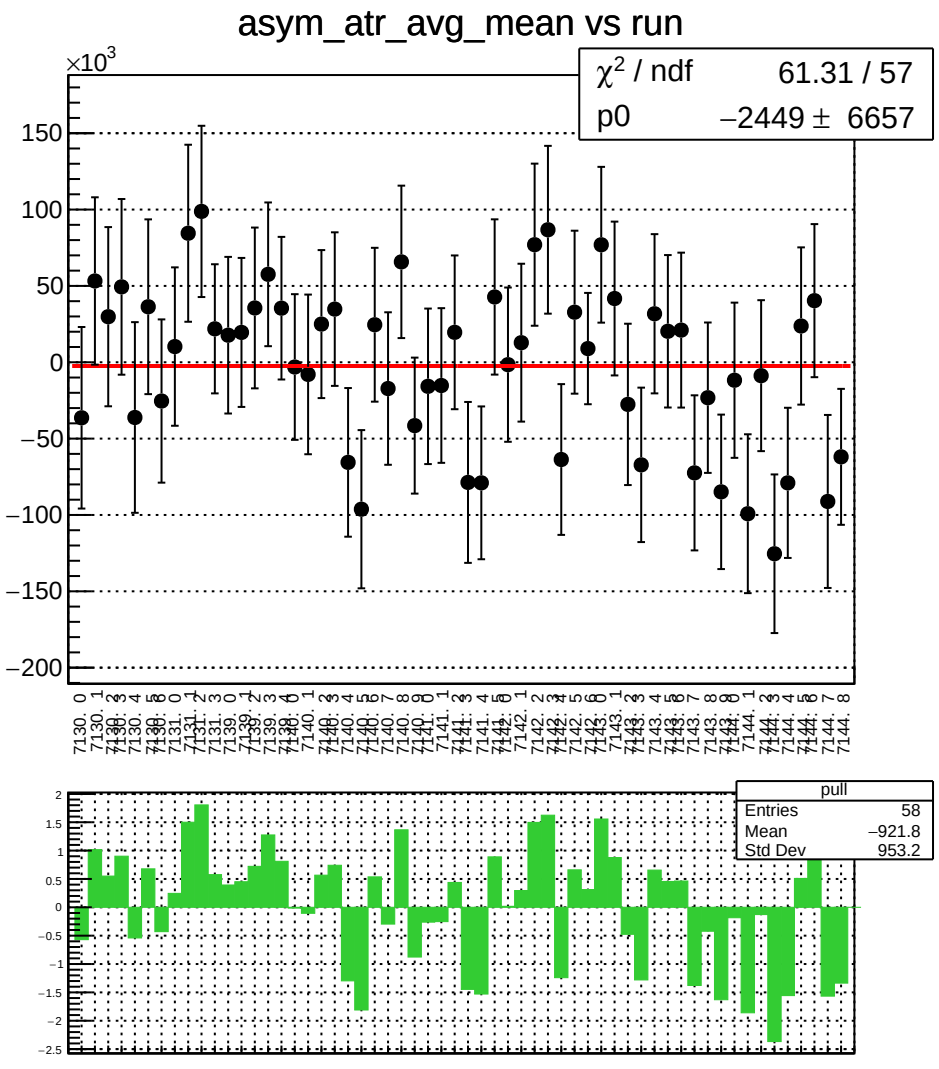

pull1D
Entries 58
Mean −0.004073
Std Dev 0.9933

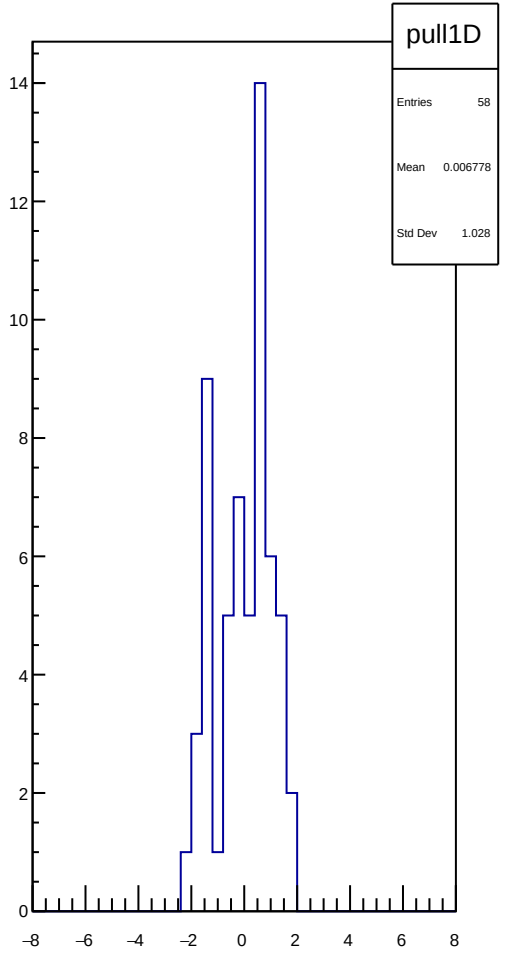

reg_asym_atr_avg_rms vs run
χ^2 / ndf 73.51 / 57
p0 1900 ± 1.806
1940
1920
1900
1880
1860

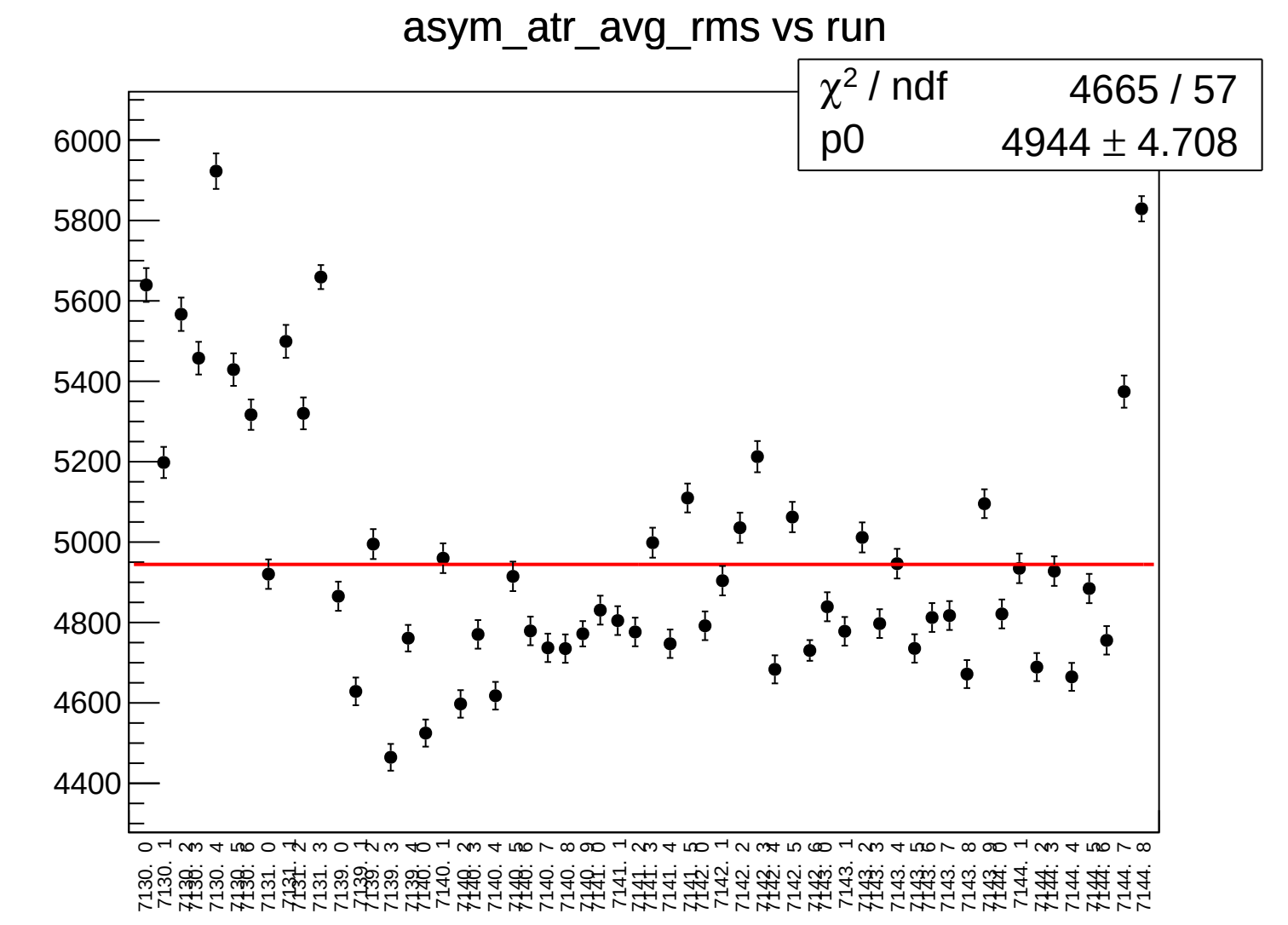

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 60.96 / 57
p0 −1440 ± 6139
150
100
50
0
−50
−100
−150
pull
Entries 58
Mean −406.9
Std Dev 437.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

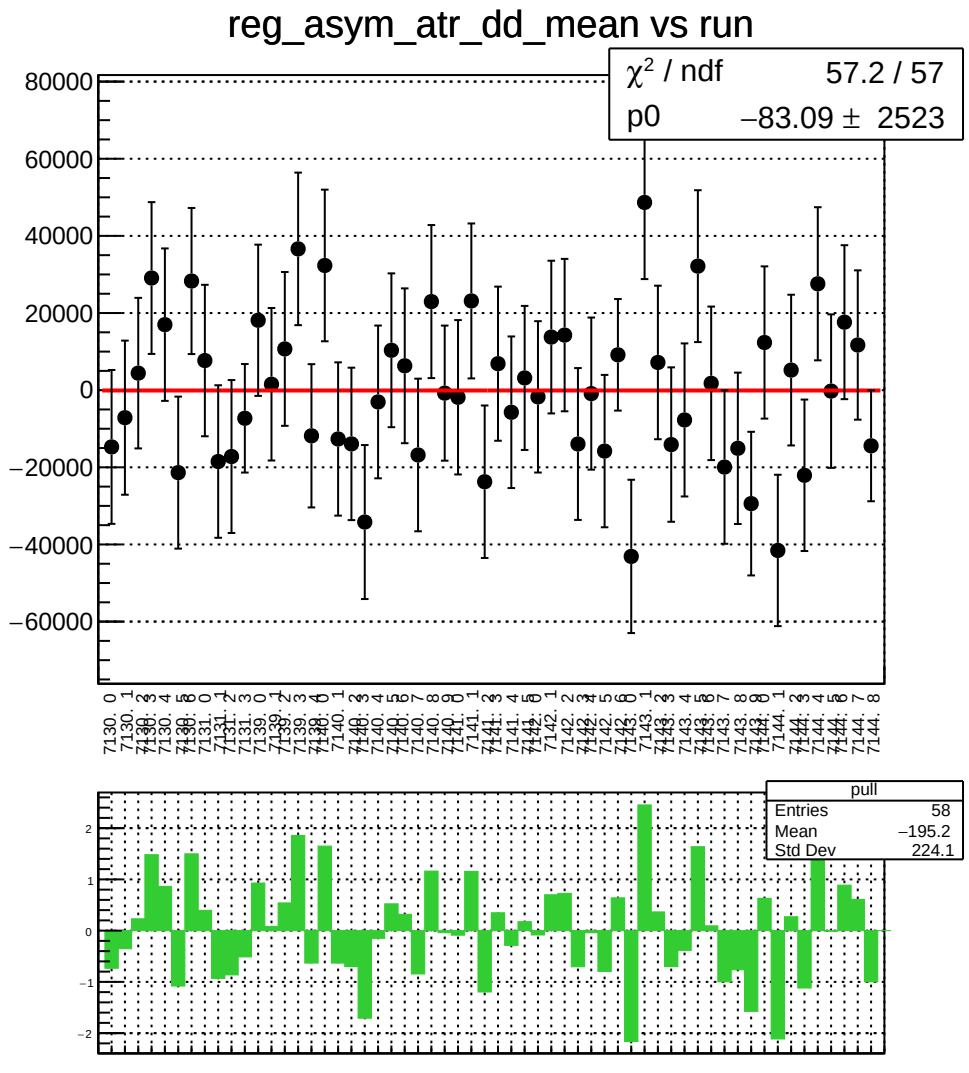

pull1D
Entries 58
Mean −0.01432
Std Dev 1.025
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

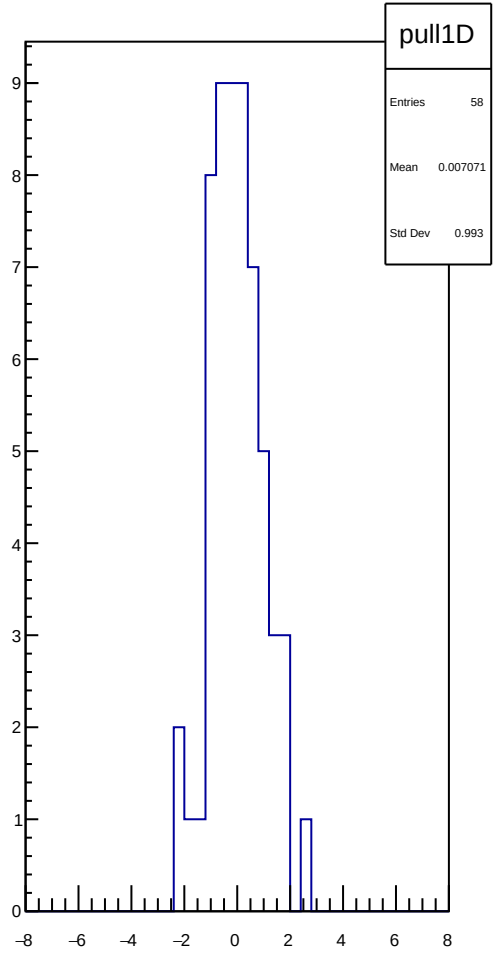

asym_atr_avg_correction_rms vs run
χ² / ndf 6226 / 57
p0 4556 ± 4.341
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

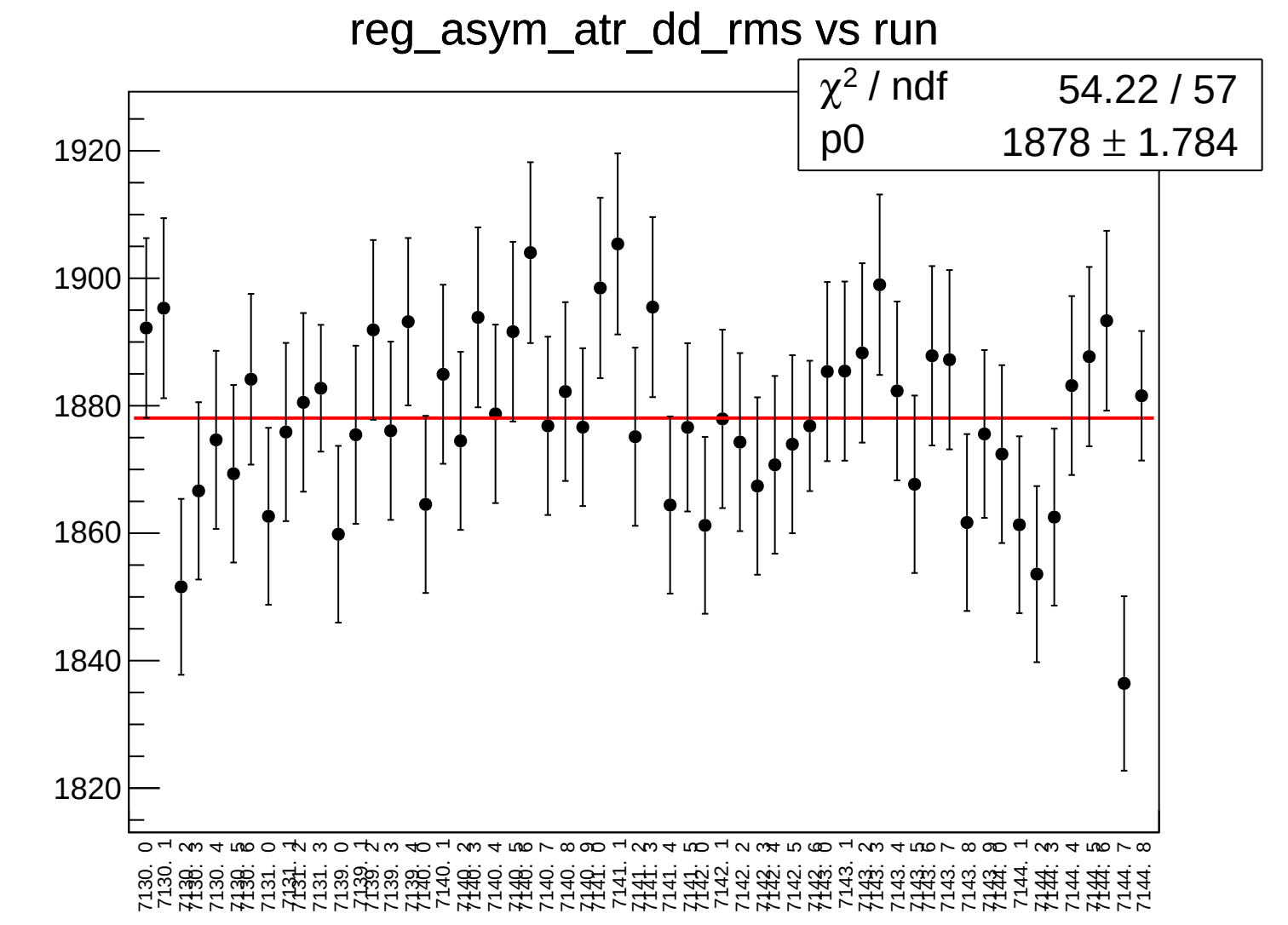

asym_atr_avg_mean vs run
×10^3
χ² / ndf 61.31 / 57
p0 −2449 ± 6657
150
100
50
0
−50
−100
−150
−200
pull
Entries 58
Mean −921.8
Std Dev 953.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

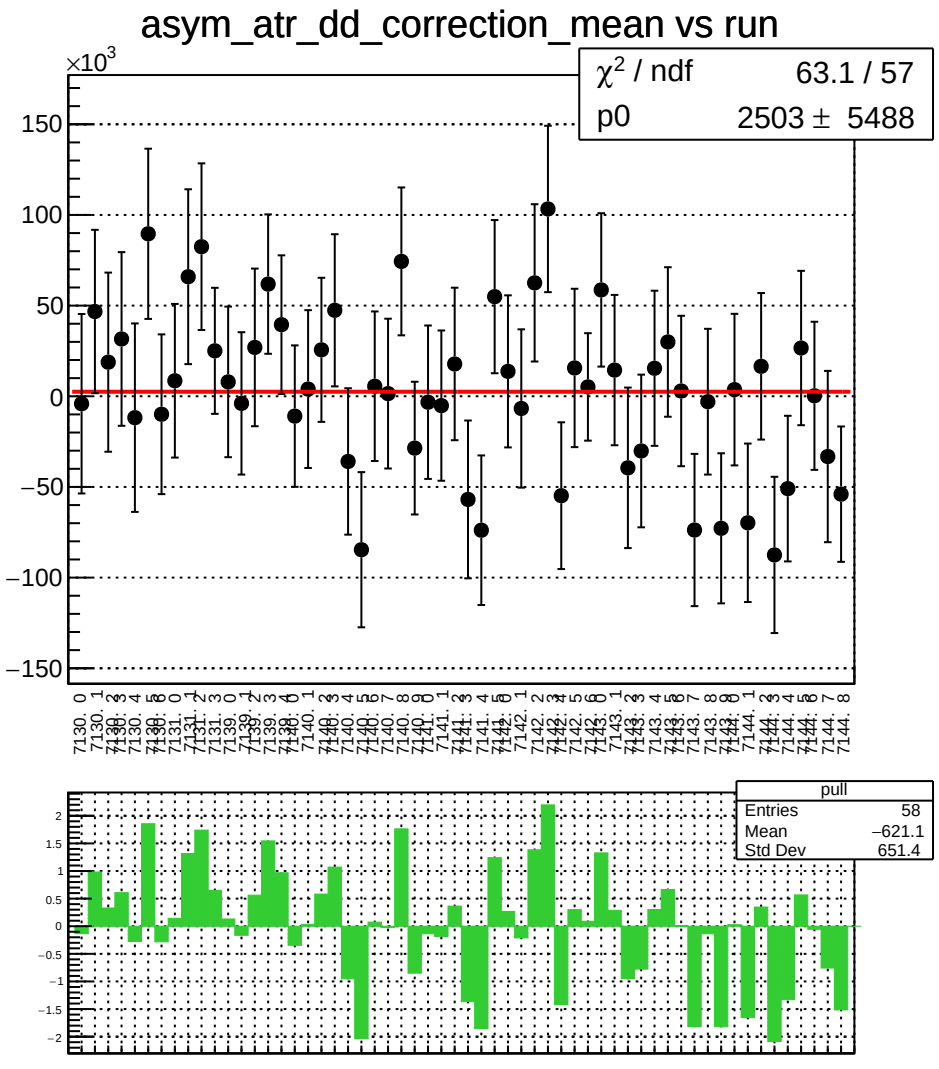

pull1D
Entries 58
Mean 0.006778
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

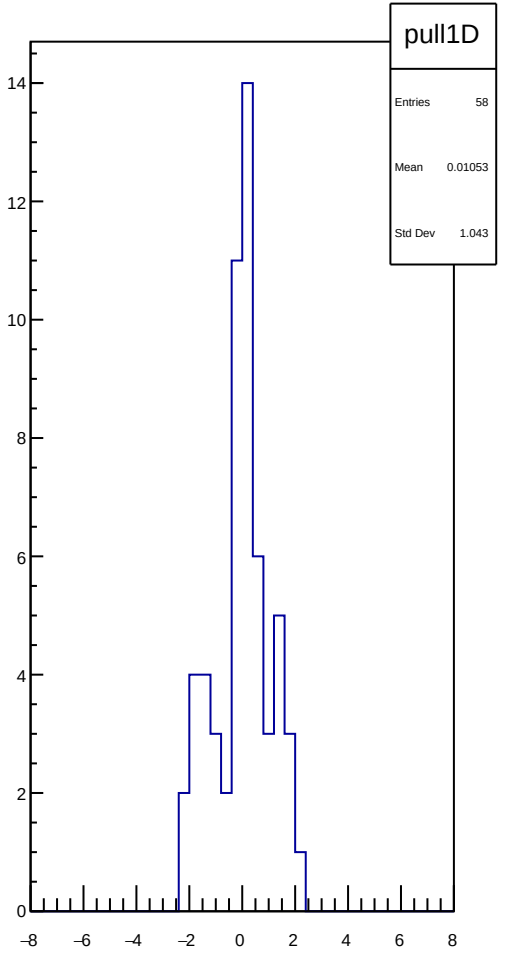

asym_atr_avg_rms vs run
χ² / ndf 4665 / 57
p0 4944 ± 4.708
6000
5800
5600
5400
5200
5000
4800
4600
4400

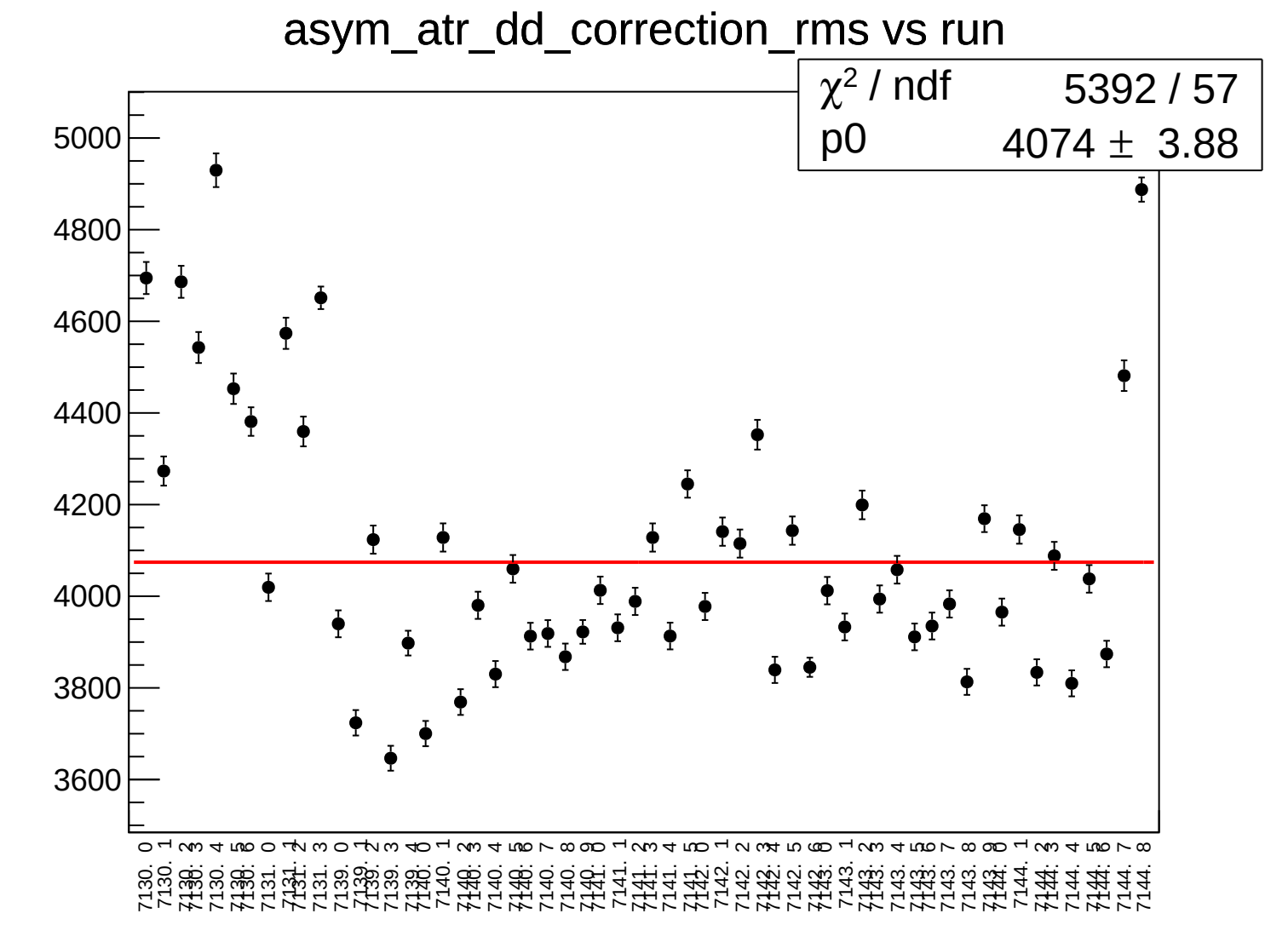

reg_asym_atr_dd_mean vs run
χ² / ndf 57.2 / 57
p0 −83.09 ± 2523
pull
Entries 58
Mean −195.2
Std Dev 224.1

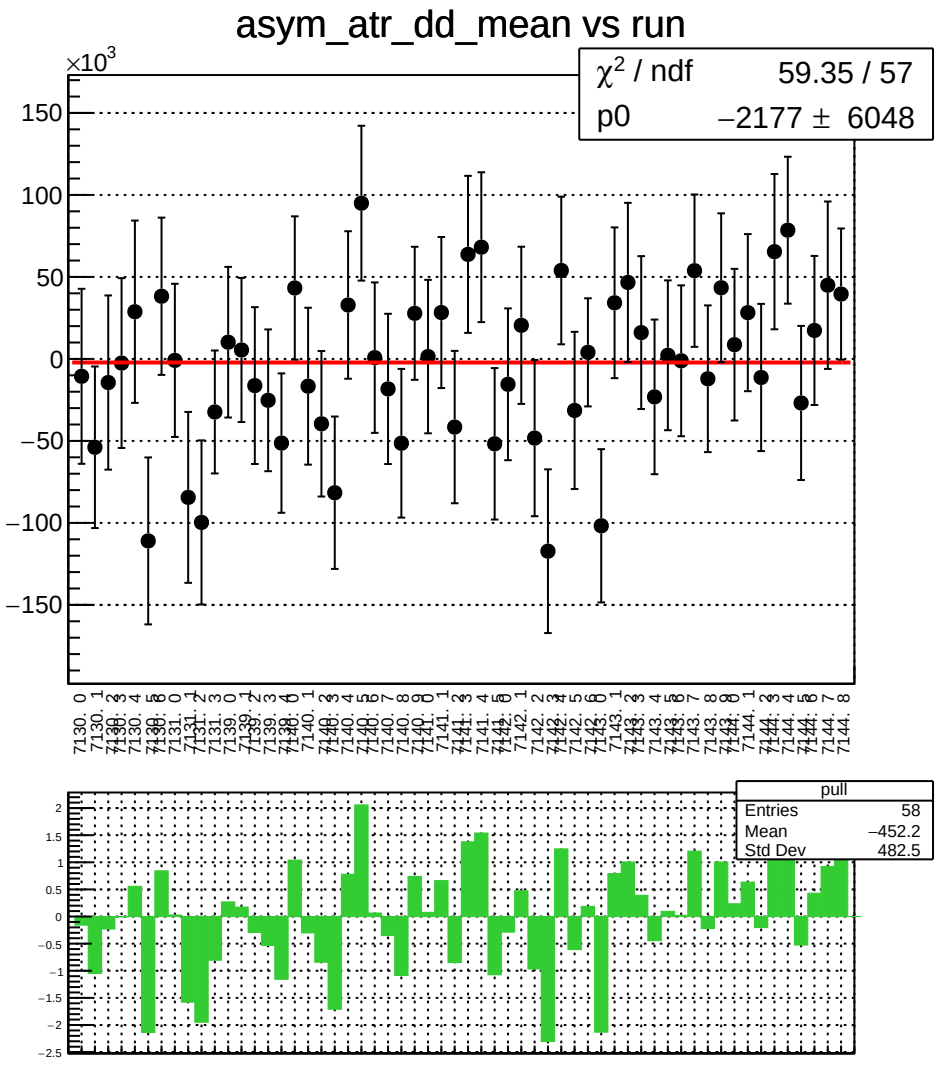

pull1D
Entries 58
Mean 0.007071
Std Dev 0.993

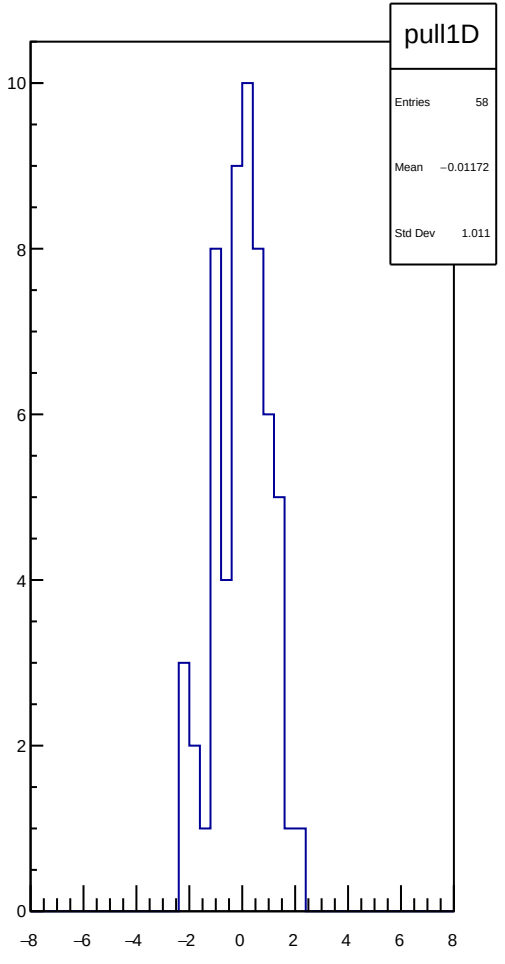

reg_asym_atr_dd_rms vs run
χ² / ndf 54.22 / 57
p0 1878 ± 1.784
1920
1900
1880
1860
1840
1820

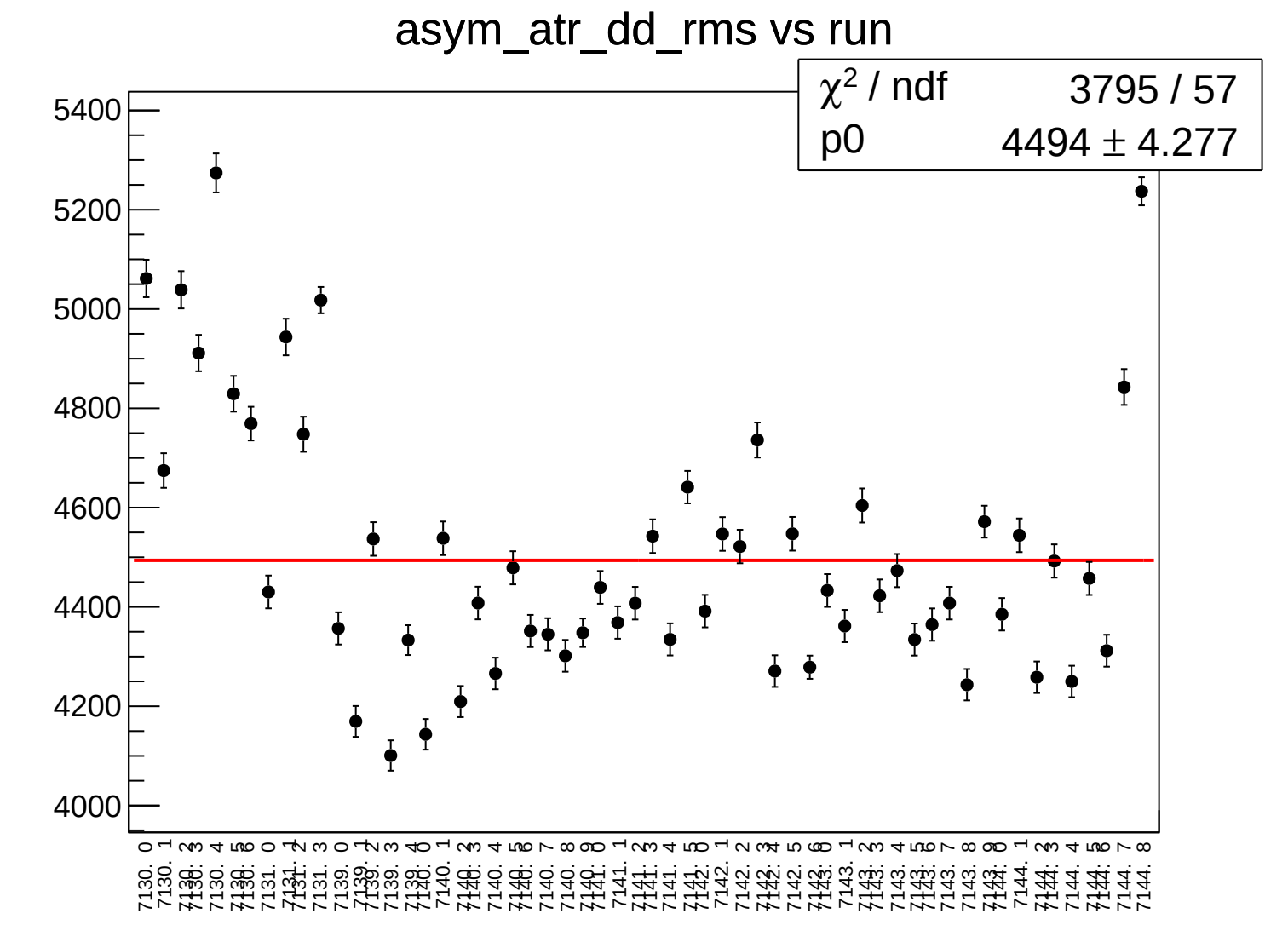

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 63.1 / 57
p0 2503 ± 5488
150
100
50
0
−50
−100
−150
pull
Entries 58
Mean −621.1
Std Dev 651.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

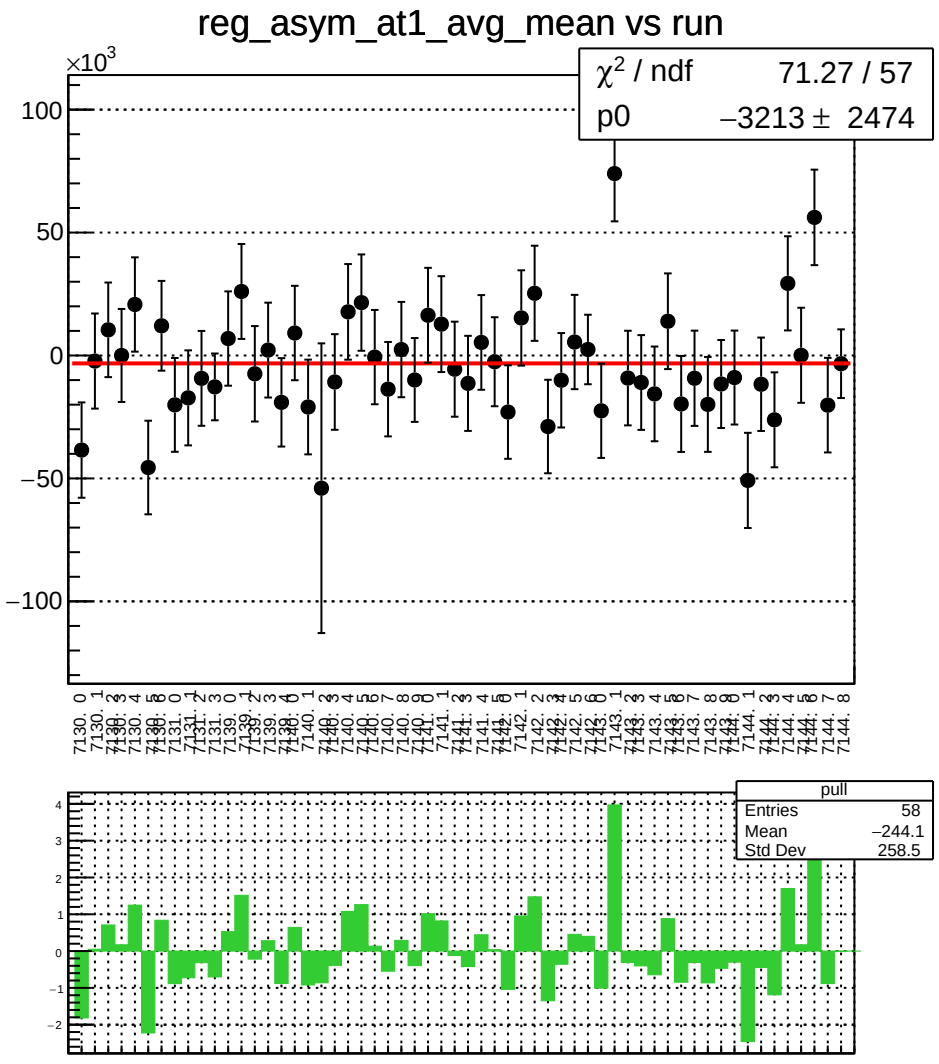

pull1D
Entries 58
Mean 0.01053
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

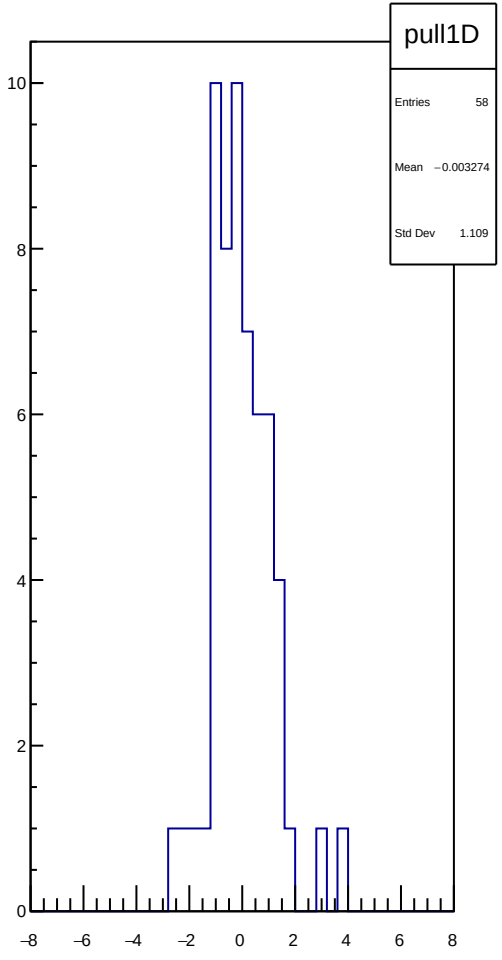

asym_atr_dd_correction_rms vs run
χ^2 / ndf 5392 / 57
p0 4074 ± 3.88
5000
4800
4600
4400
4200
4000
3800
3600

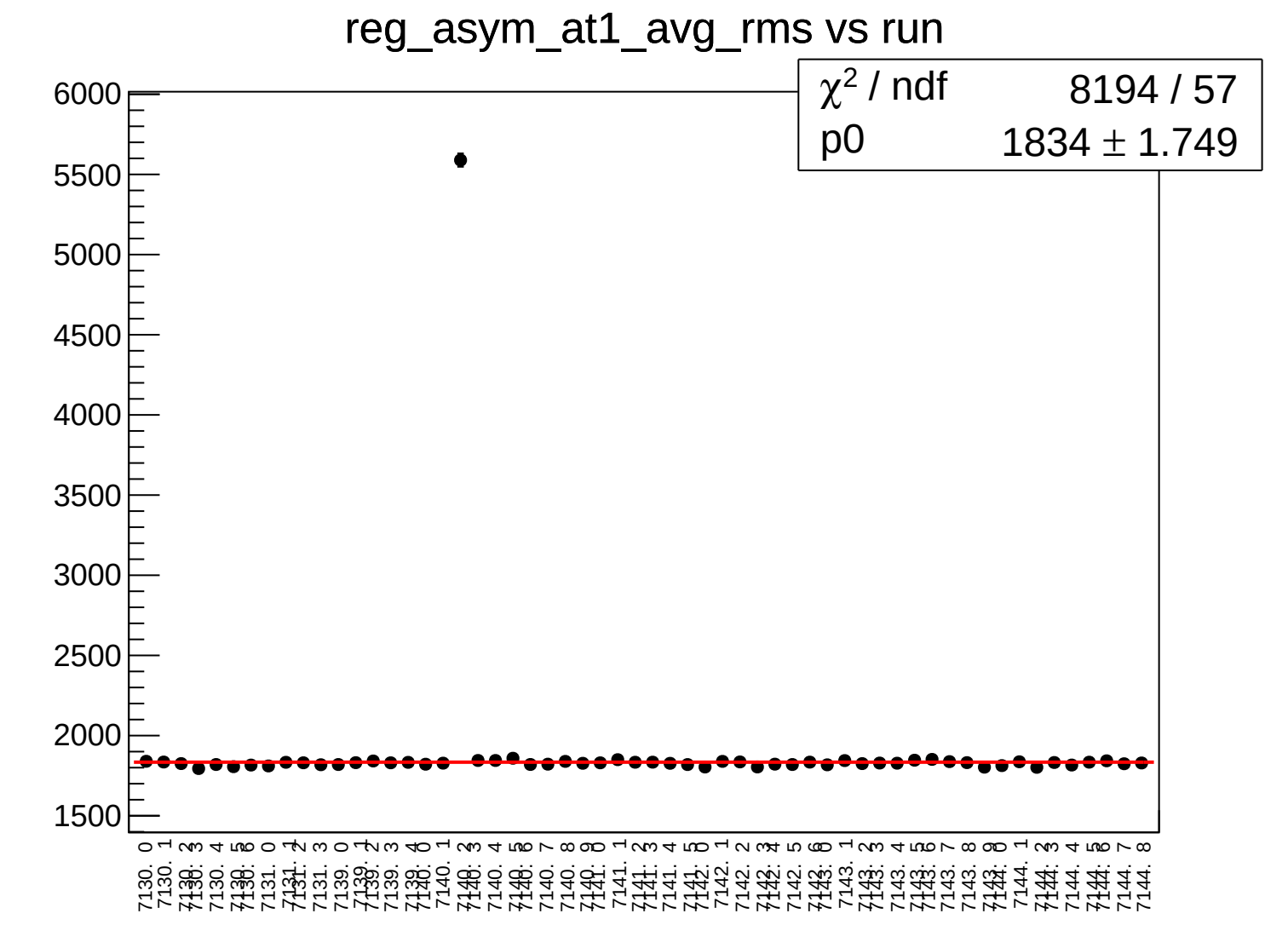

asym_atr_dd_mean vs run
×10^3
χ² / ndf 59.35 / 57
p0 −2177 ± 6048
150
100
50
0
−50
−100
−150
pull
Entries 58
Mean −452.2
Std Dev 482.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

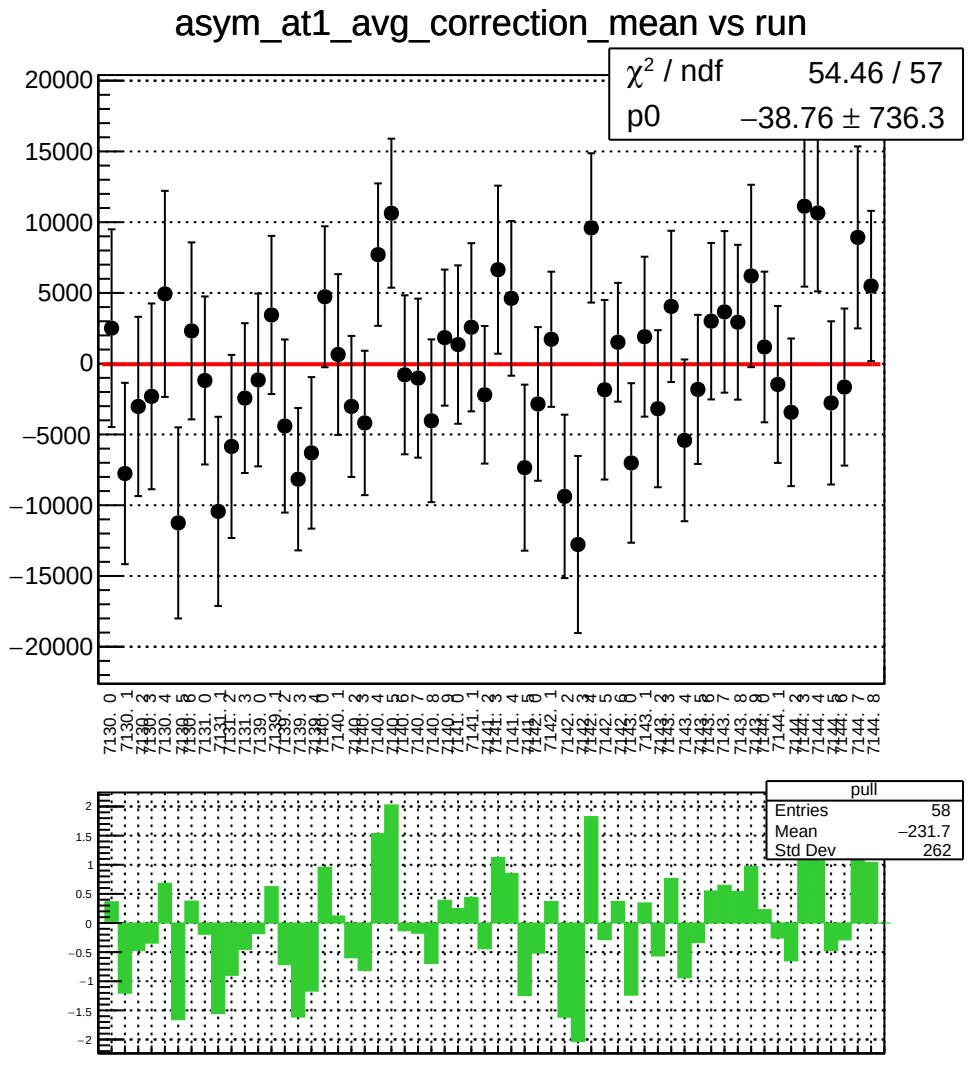

pull1D
Entries 58
Mean −0.01172
Std Dev 1.011
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

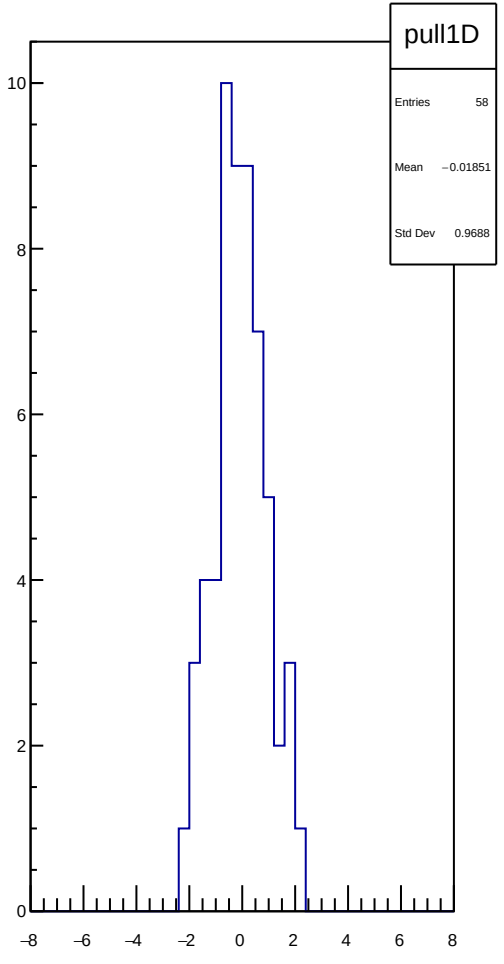

asym_atr_dd_rms vs run
χ^2 / ndf 3795 / 57
p0 4494 ± 4.277
5400
5200
5000
4800
4600
4400
4200
4000

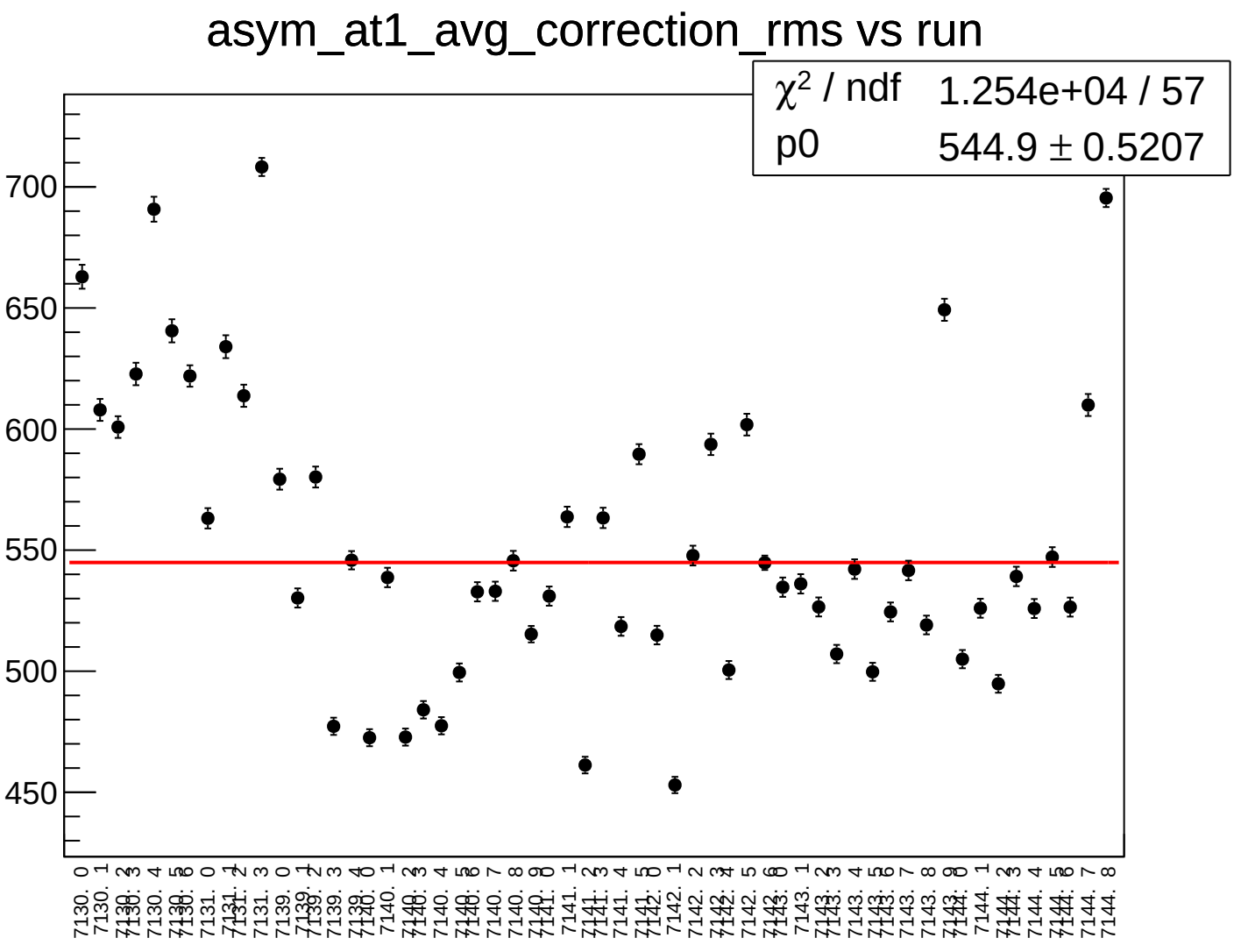

reg_asym_at1_avg_mean vs run
×10^3
χ² / ndf 71.27 / 57
p0 −3213 ± 2474
100
50
0
−50
−100
pull
Entries 58
Mean −244.1
Std Dev 258.5
4
3
2
1
0
−1
−2

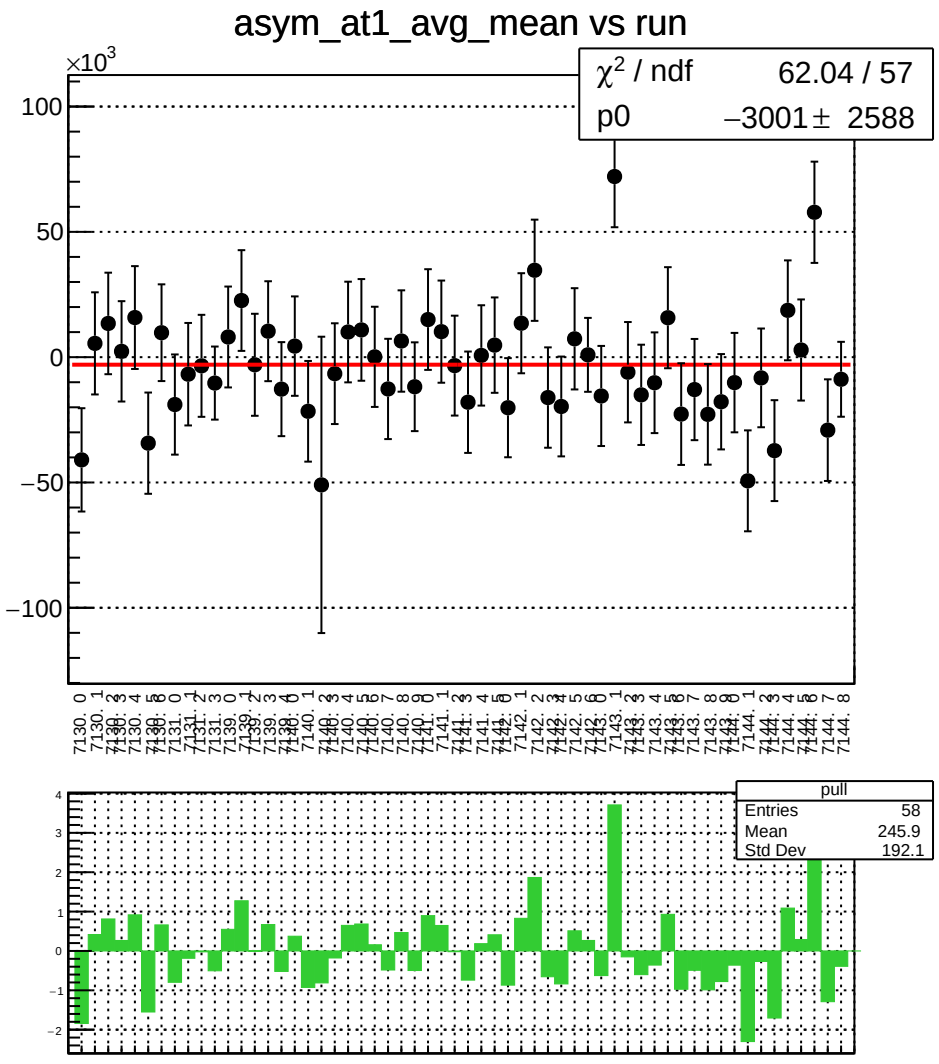

pull1D
Entries 58
Mean −0.003274
Std Dev 1.109
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

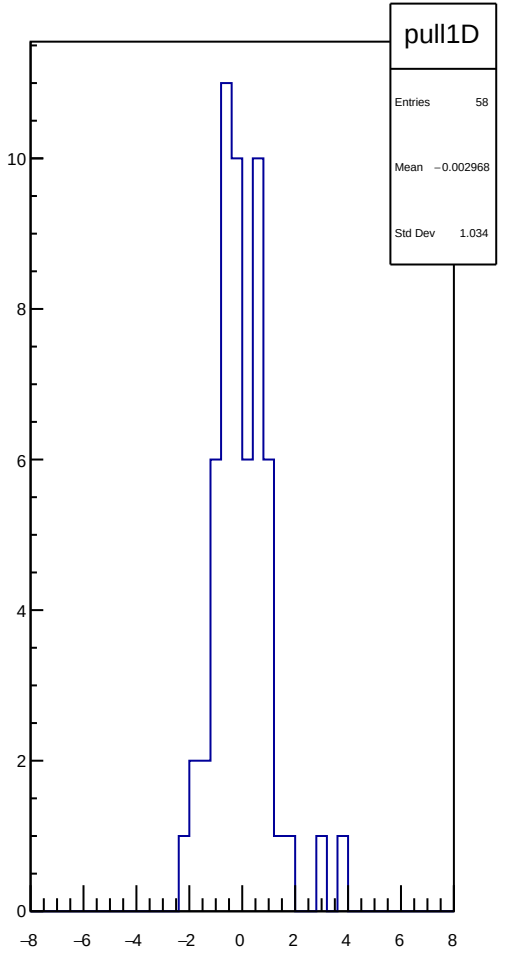

reg_asym_at1_avg_rms vs run
χ² / ndf 8194 / 57
p0 1834 ± 1.749
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

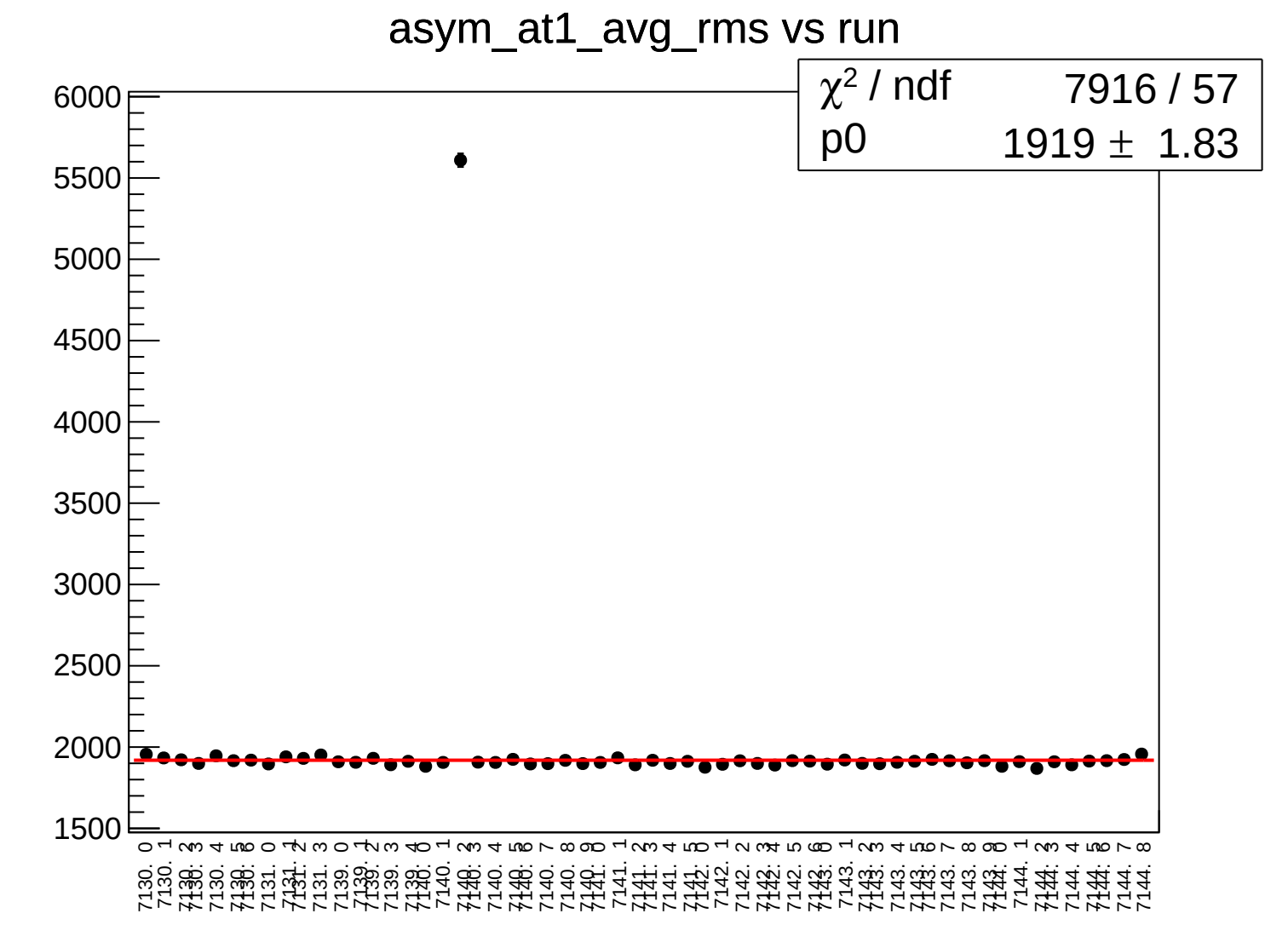

asym_at1_avg_correction_mean vs run
χ² / ndf 54.46 / 57
p0 −38.76 ± 736.3
pull
Entries 58
Mean −231.7
Std Dev 262

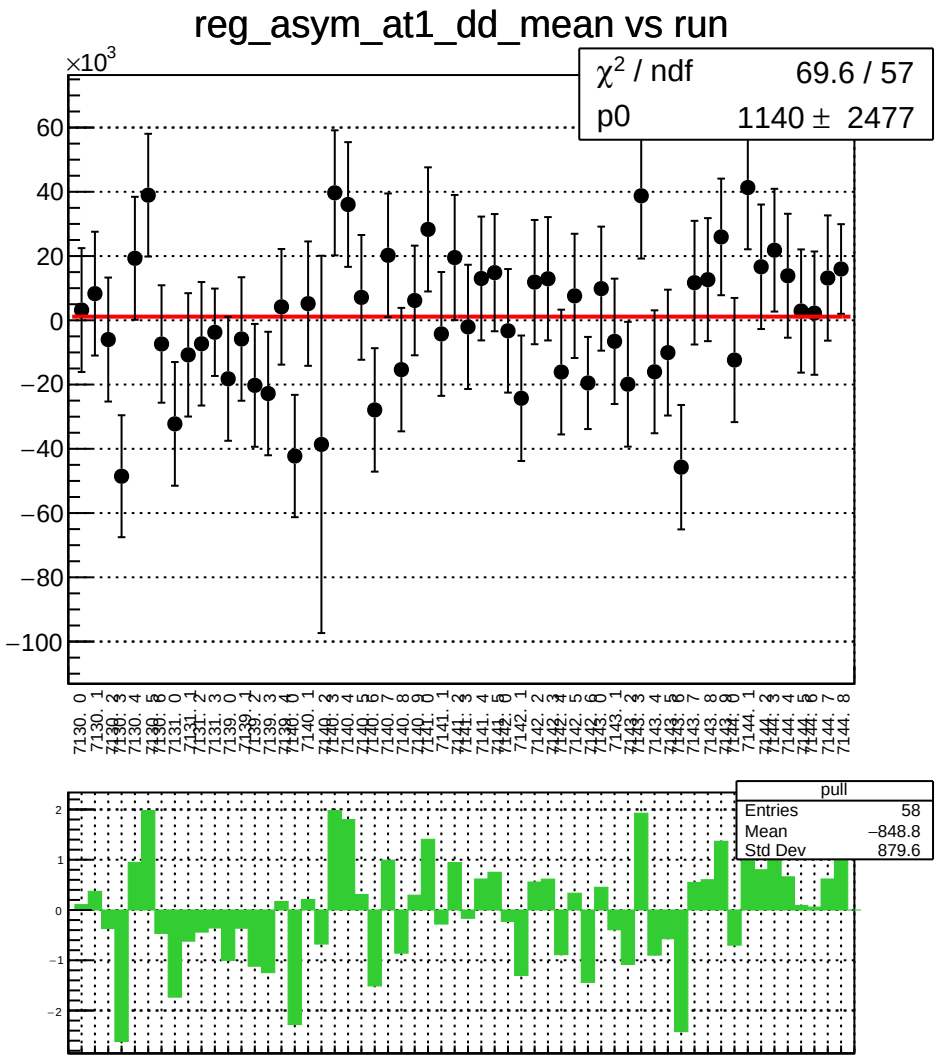

pull1D
Entries 58
Mean −0.01851
Std Dev 0.9688

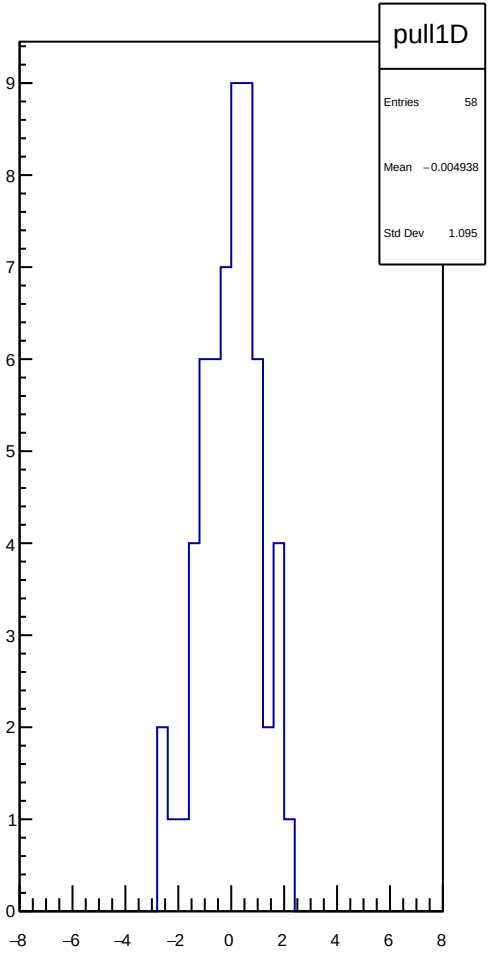

asym_at1_avg_correction_rms vs run
χ² / ndf 1.254e+04 / 57
p0 544.9 ± 0.5207
700
650
600
550
500
450

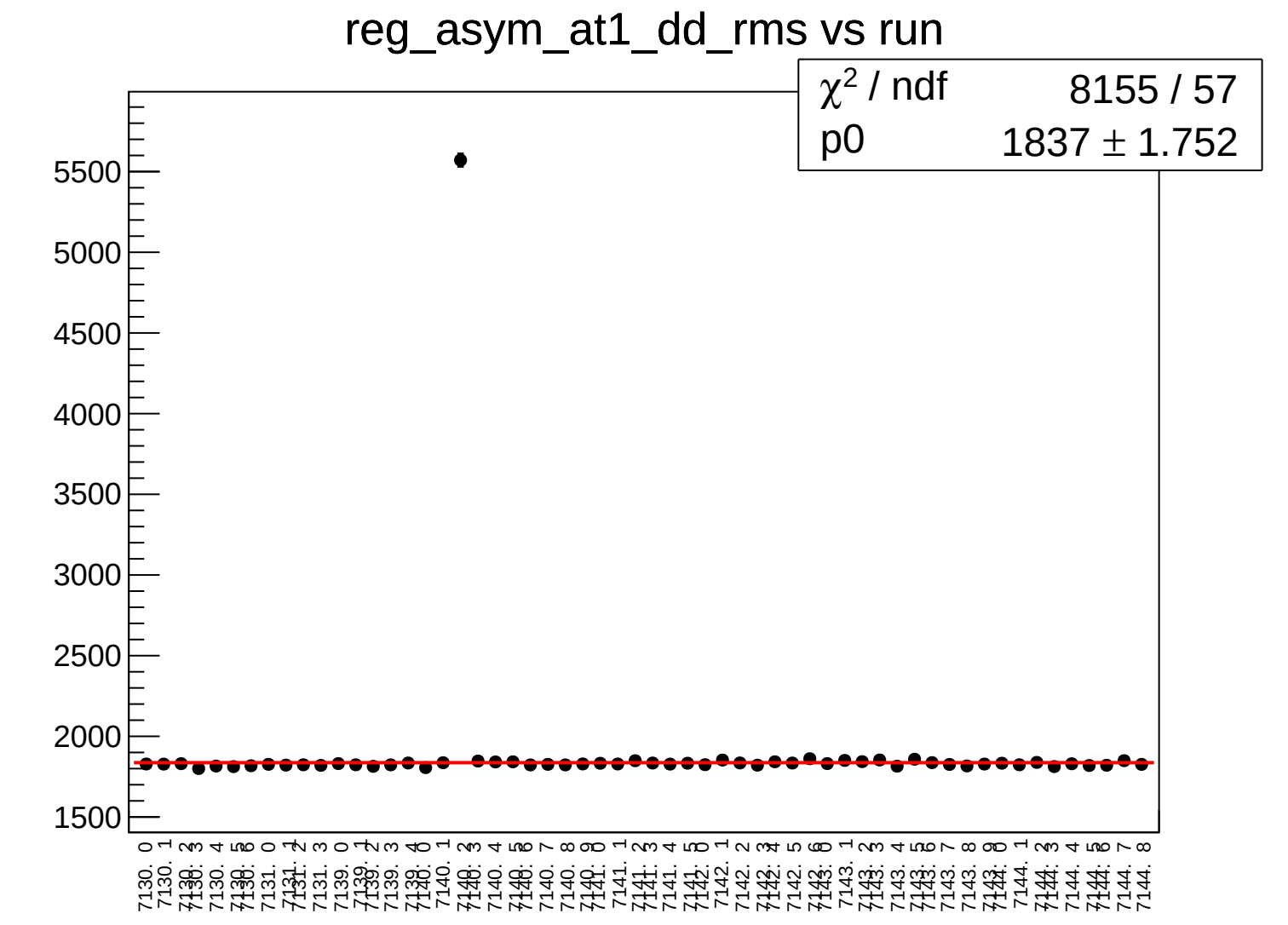

asym_at1_avg_mean vs run
×10^3
χ² / ndf 62.04 / 57
p0 −3001 ± 2588
100
50
0
−50
−100
pull
Entries 58
Mean 245.9
Std Dev 192.1
4
3
2
1
0
−1
−2

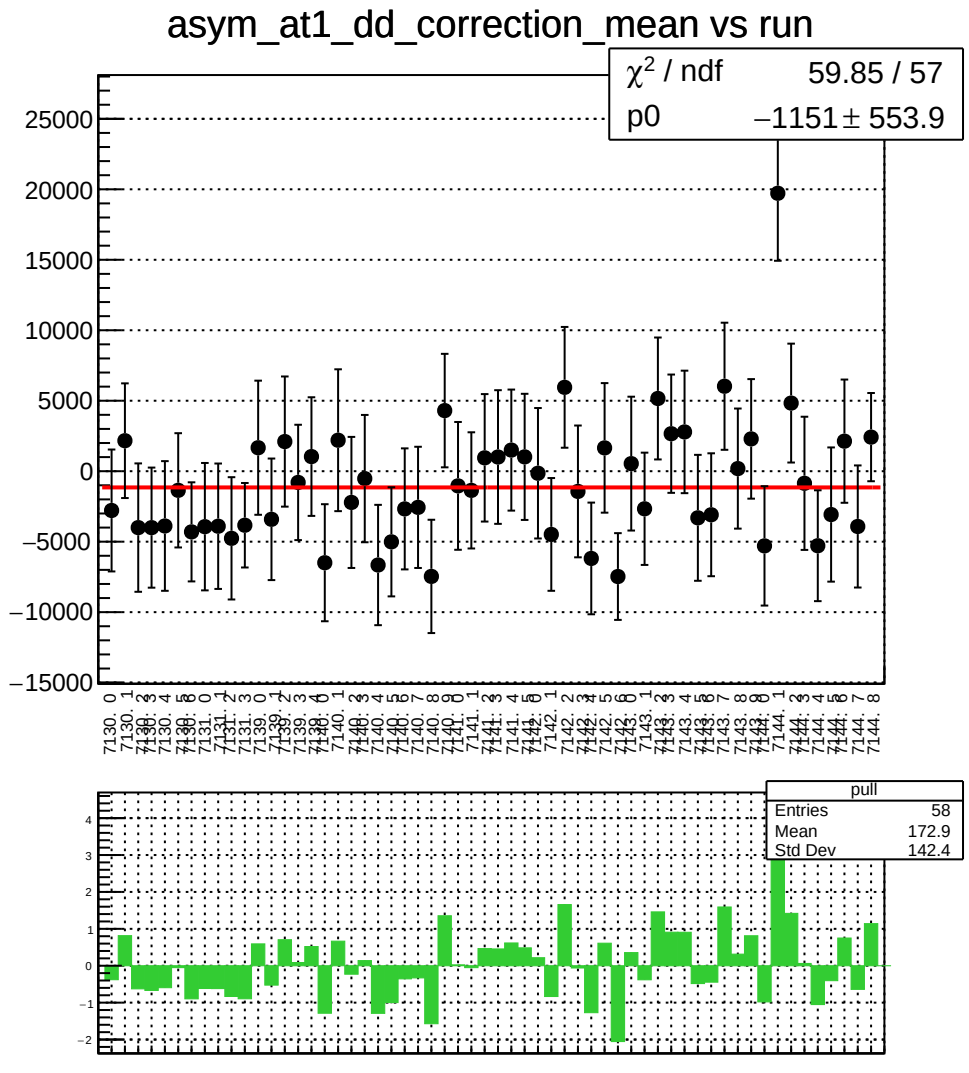

pull1D
Entries 58
Mean −0.002968
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

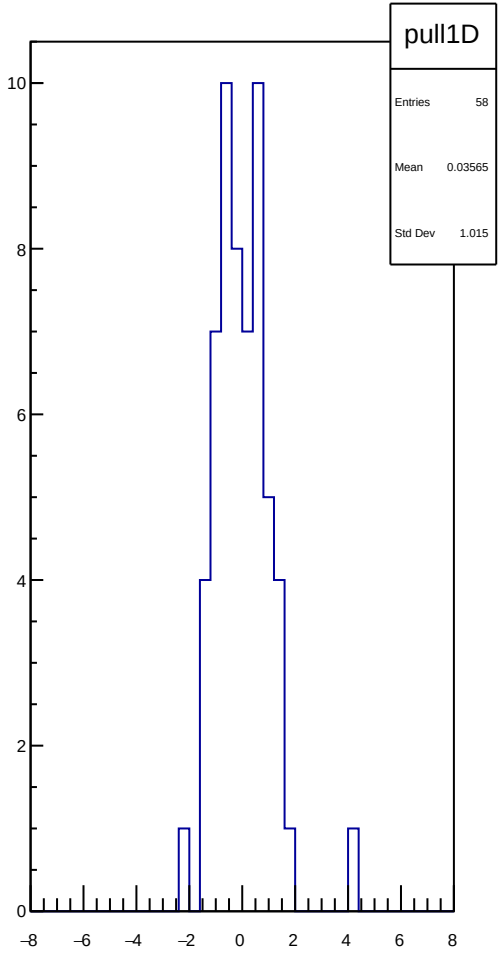

asym_at1_avg_rms vs run
χ² / ndf 7916 / 57
p0 1919 ± 1.83
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

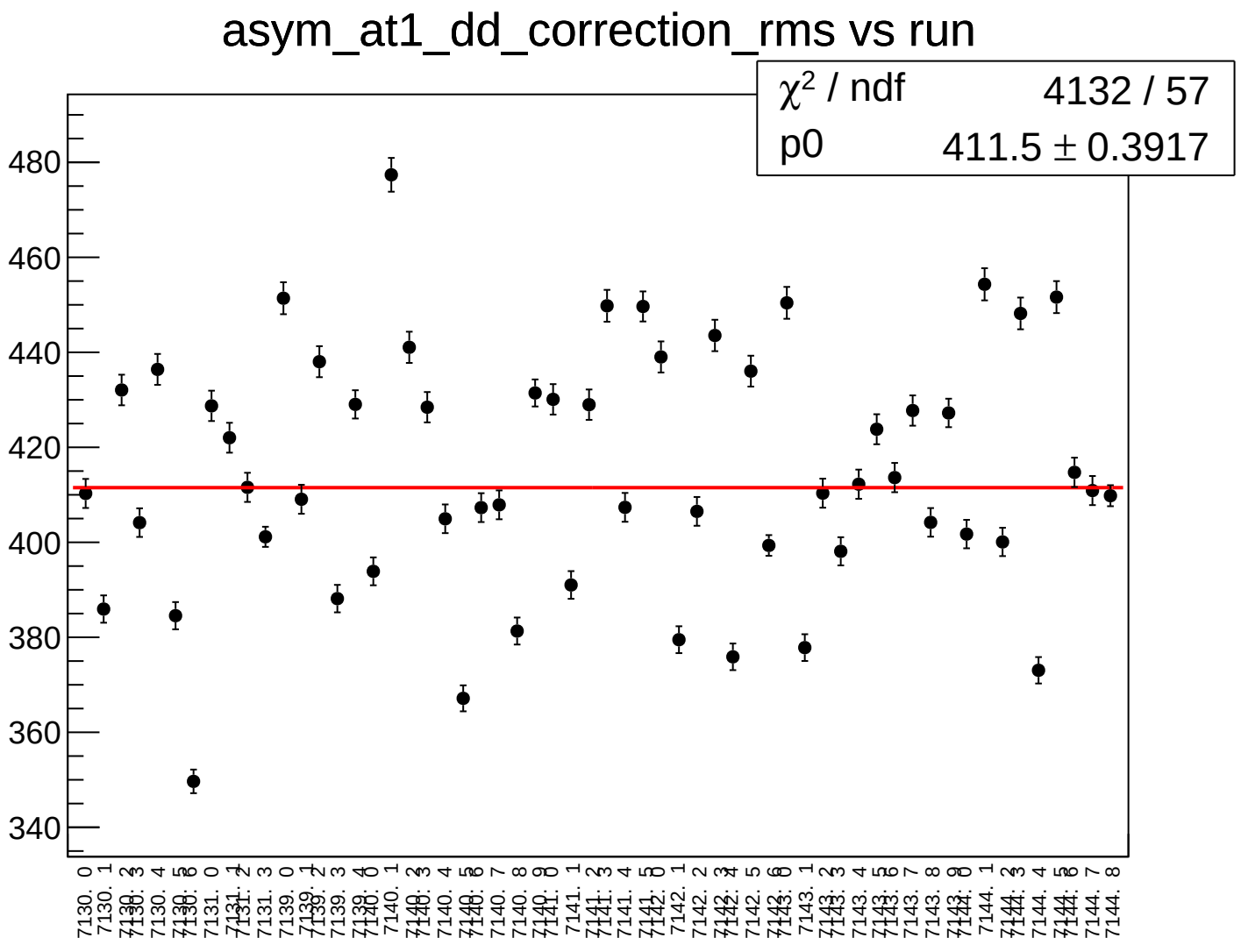

reg_asym_at1_dd_mean vs run
χ^2 / ndf 69.6 / 57
p0 1140 ± 2477
×10^3
pull
Entries 58
Mean −848.8
Std Dev 879.6

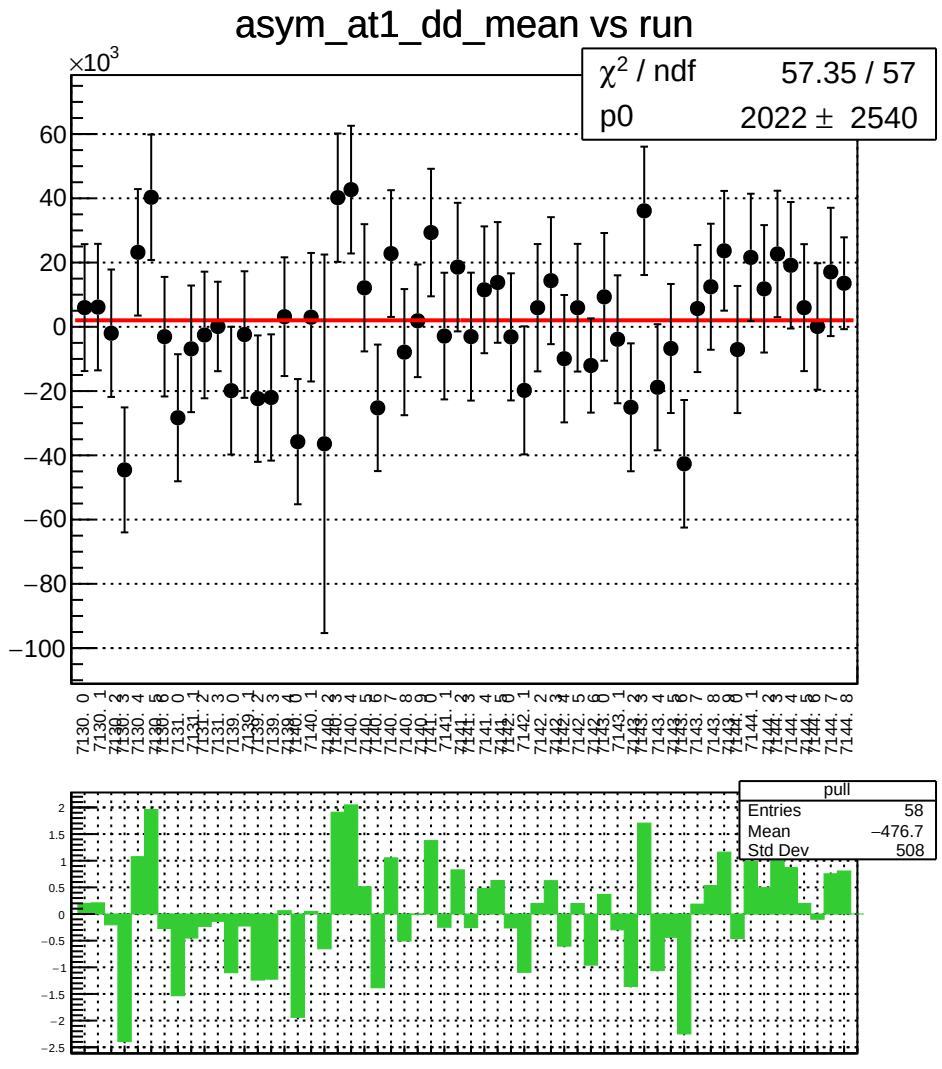

pull1D
Entries 58
Mean −0.004938
Std Dev 1.095

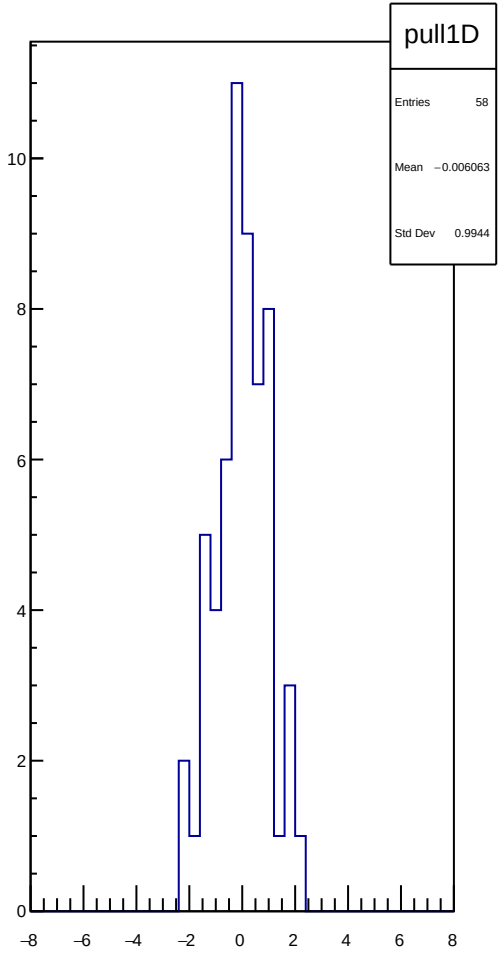

reg_asym_at1_dd_rms vs run
χ^2 / ndf 8155 / 57
p0 1837 ± 1.752
5500
5000
4500
4000
3500
3000
2500
2000
1500

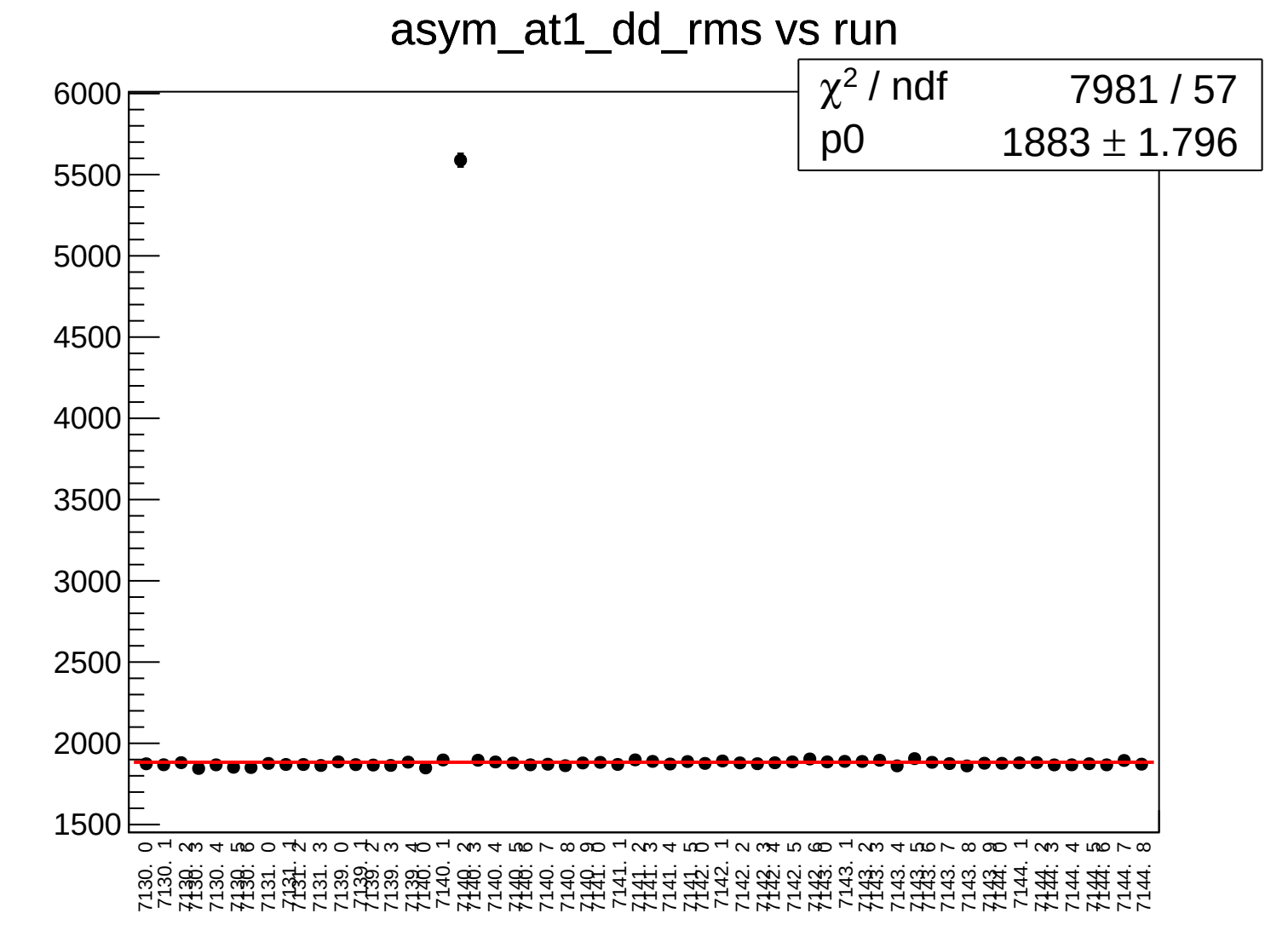

asym_at1_dd_correction_mean vs run
χ² / ndf 59.85 / 57
p0 −1151 ± 553.9
pull
Entries 58
Mean 172.9
Std Dev 142.4

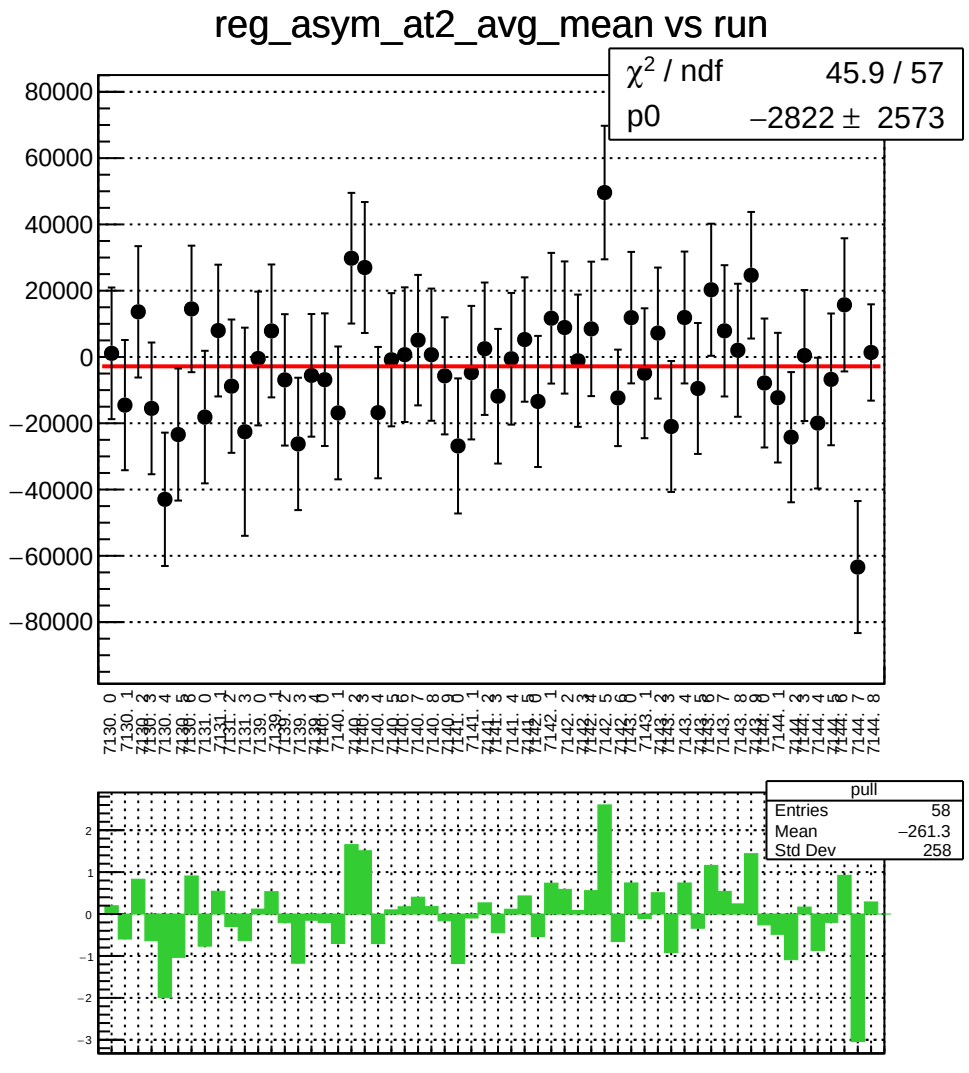

pull1D
Entries 58
Mean 0.03565
Std Dev 1.015

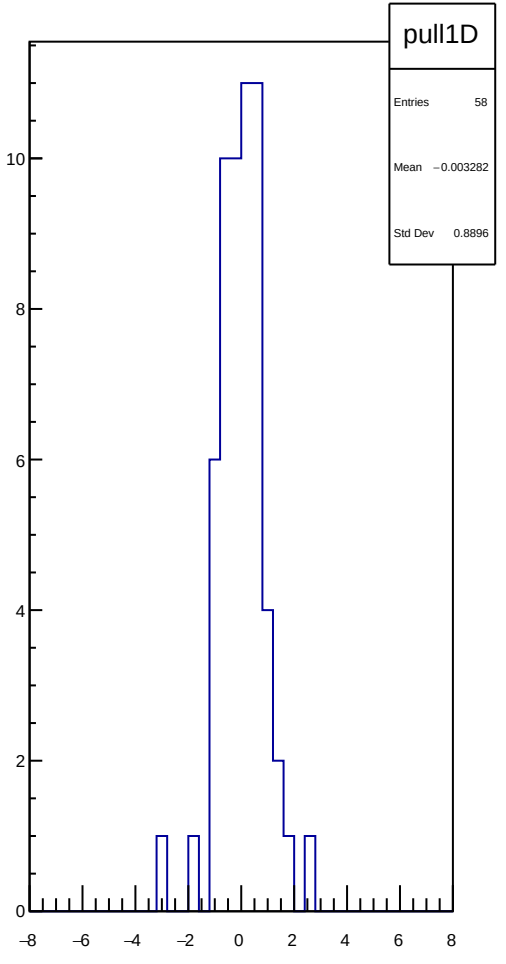

asym_at1_dd_correction_rms vs run
χ² / ndf 4132 / 57
p0 411.5 ± 0.3917
480
460
440
420
400
380
360
340
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

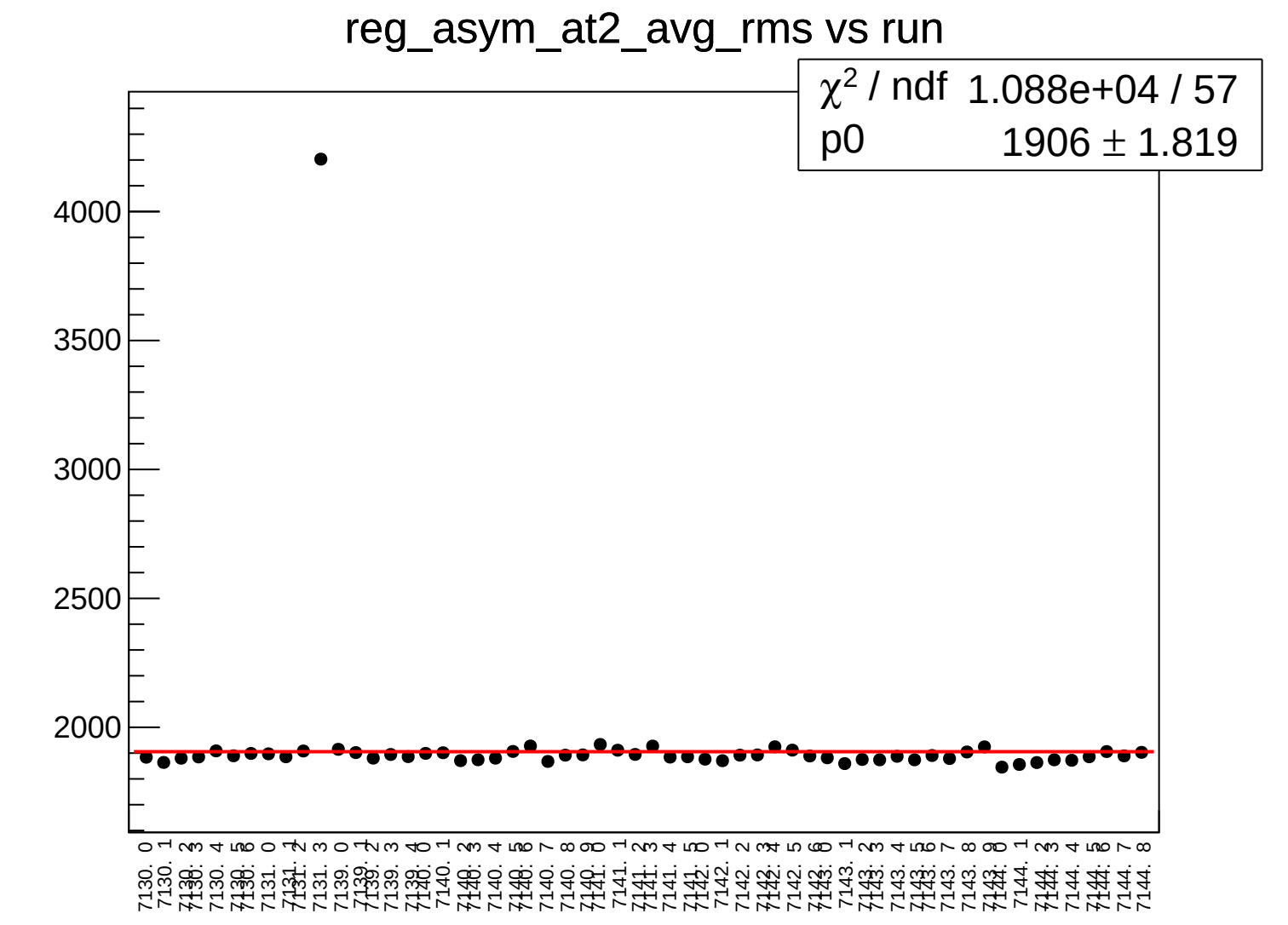

asym_at1_dd_mean vs run
×10^3
χ² / ndf 57.35 / 57
p0 2022 ± 2540
pull
Entries 58
Mean −476.7
Std Dev 508

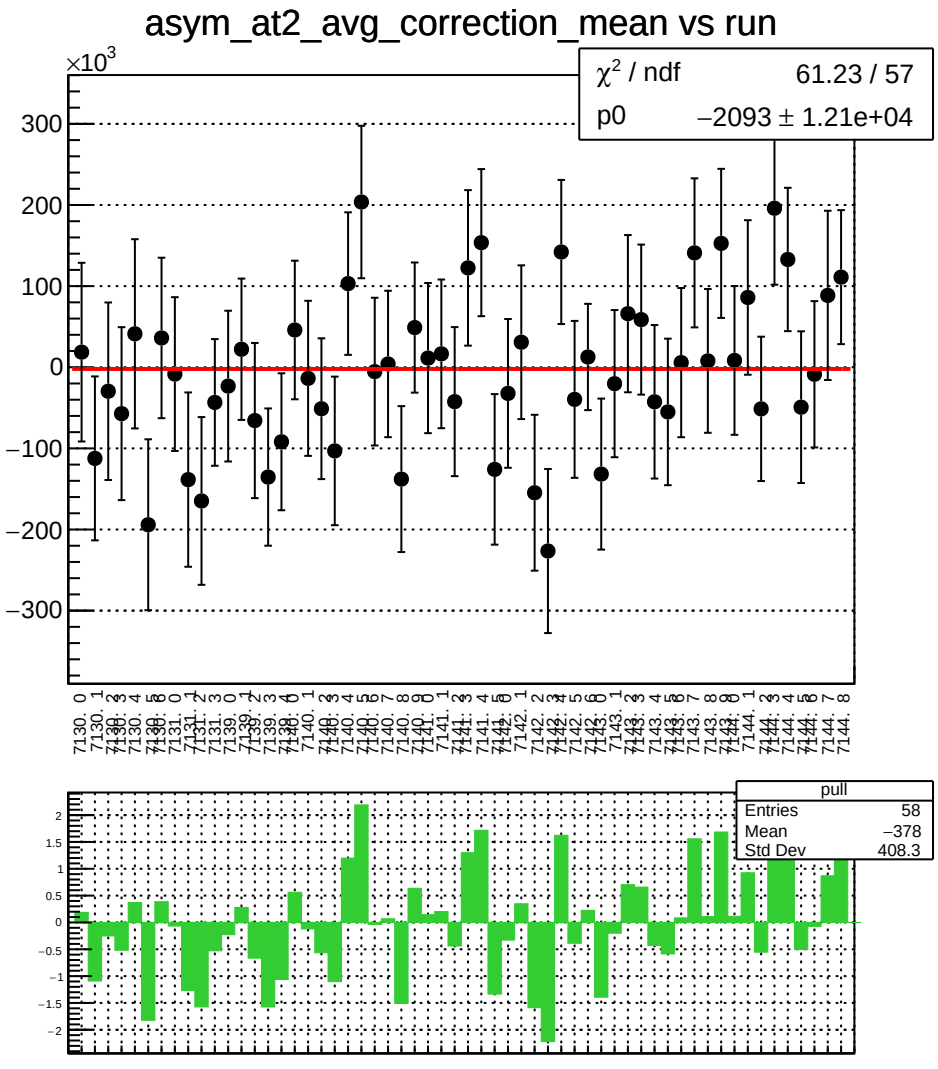

pull1D
Entries 58
Mean −0.006063
Std Dev 0.9944

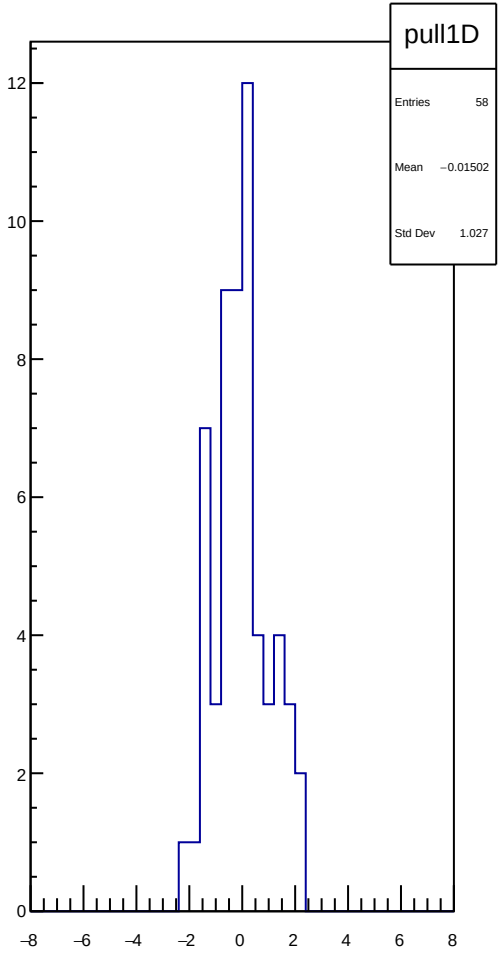

asym_at1_dd_rms vs run
χ^2 / ndf 7981 / 57
p0 1883 ± 1.796
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

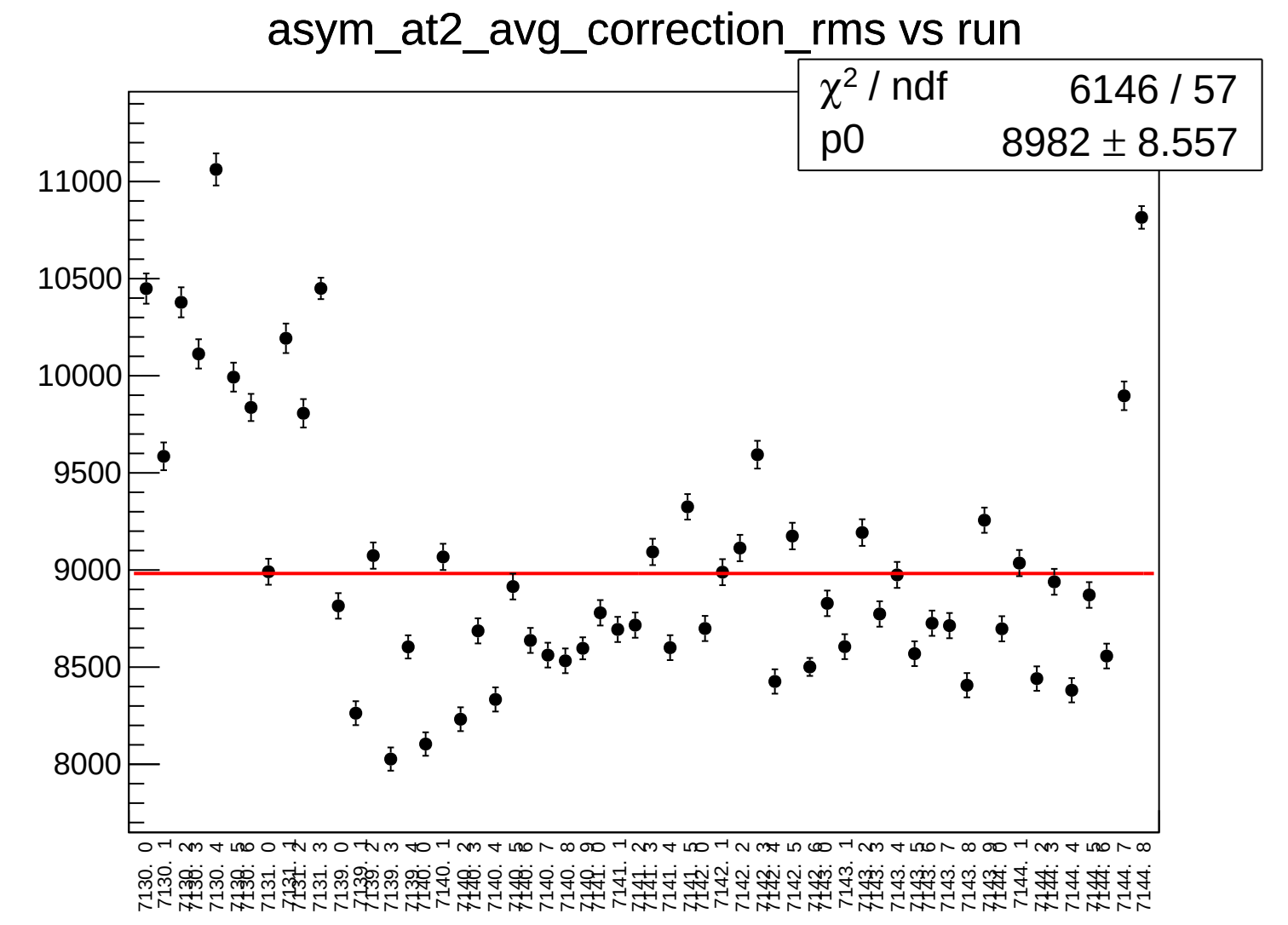

reg_asym_at2_avg_mean vs run
χ² / ndf 45.9 / 57
p0 −2822 ± 2573
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 58
Mean −261.3
Std Dev 258
2
1
0
−1
−2
−3

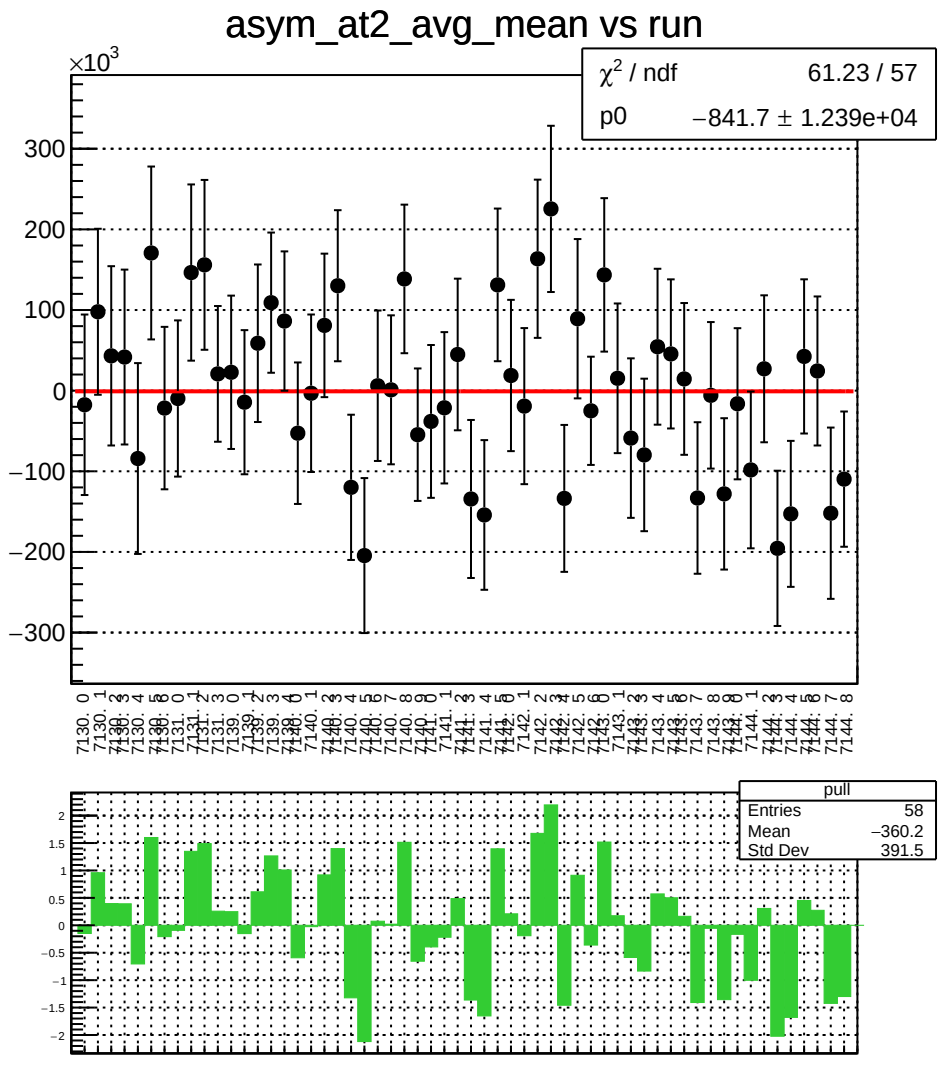

pull1D
Entries 58
Mean −0.003282
Std Dev 0.8896
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

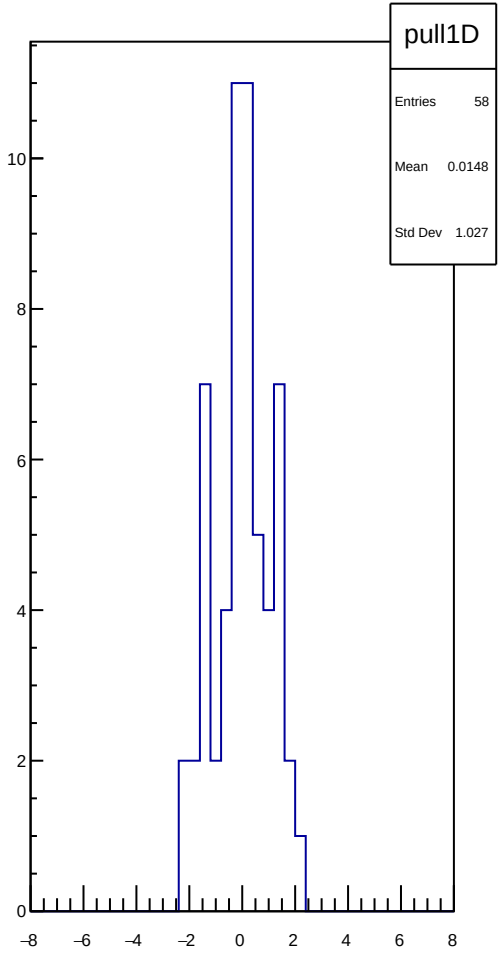

reg_asym_at2_avg_rms vs run
χ² / ndf 1.088e+04 / 57
p0 1906 ± 1.819
4000
3500
3000
2500
2000

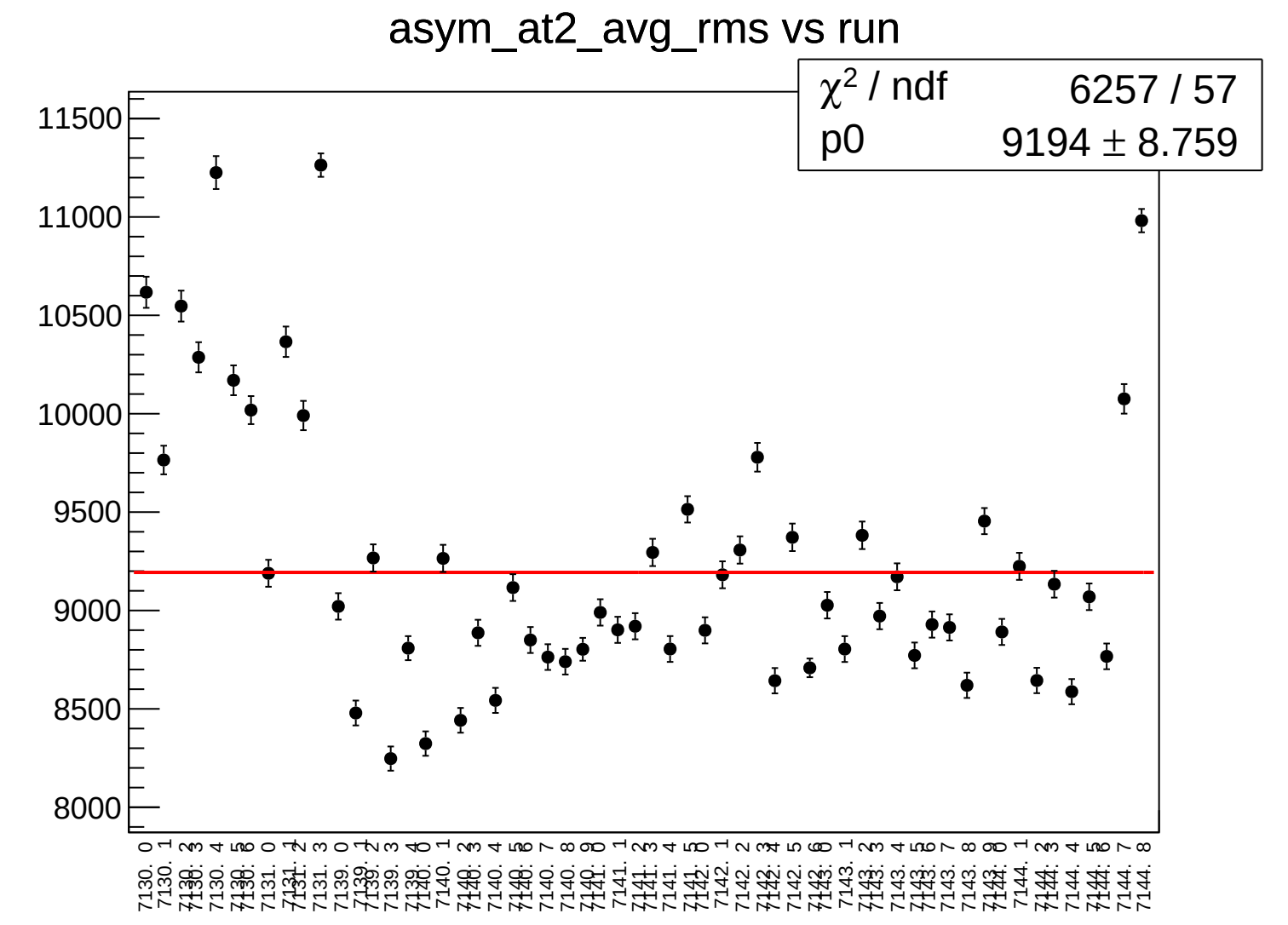

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 61.23 / 57
p0 −2093 ± 1.21e+04
300
200
100
0
−100
−200
−300
pull
Entries 58
Mean −378
Std Dev 408.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

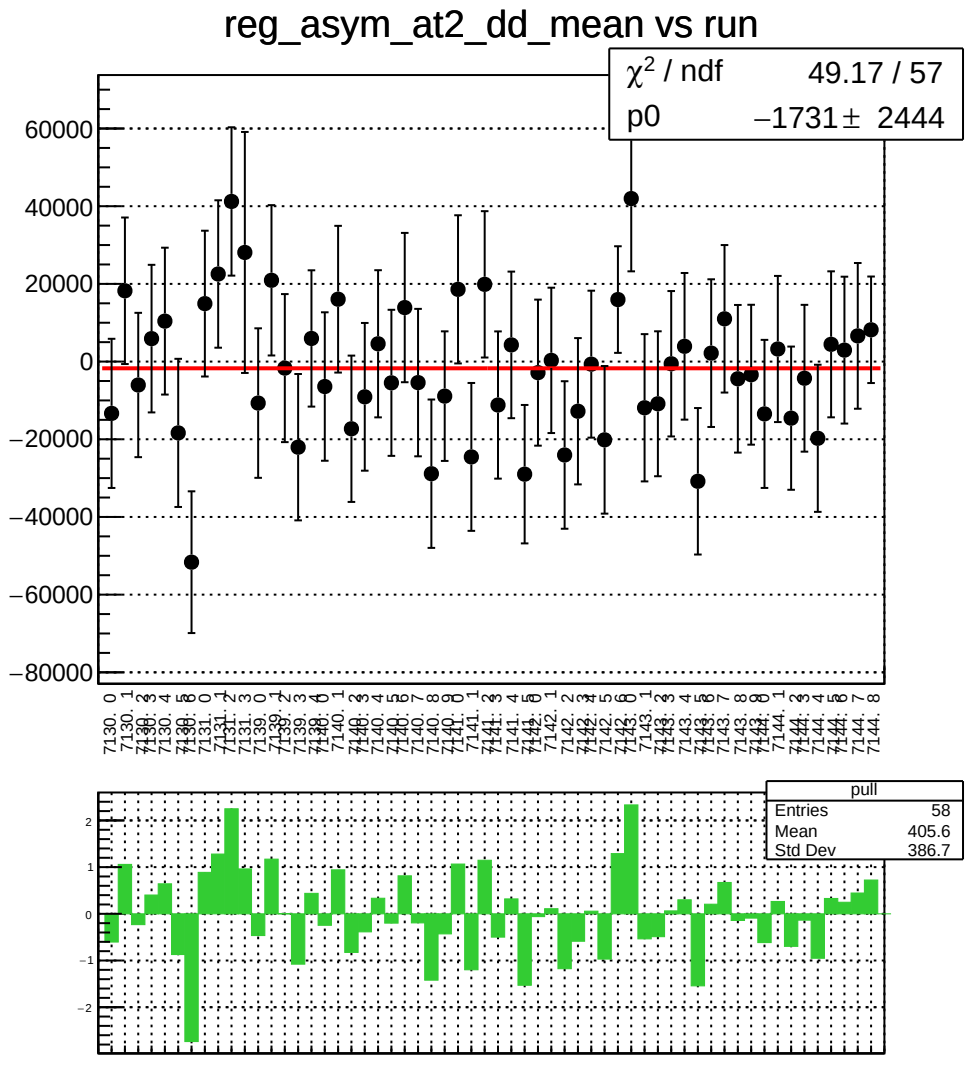

pull1D
Entries 58
Mean −0.01502
Std Dev 1.027
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

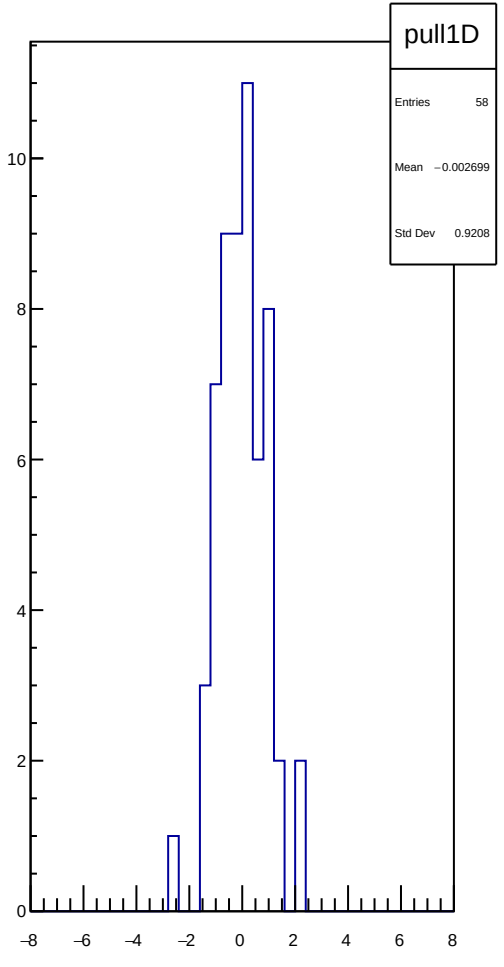

asym_at2_avg_correction_rms vs run
χ² / ndf 6146 / 57
p0 8982 ± 8.557
11000
10500
10000
9500
9000
8500
8000

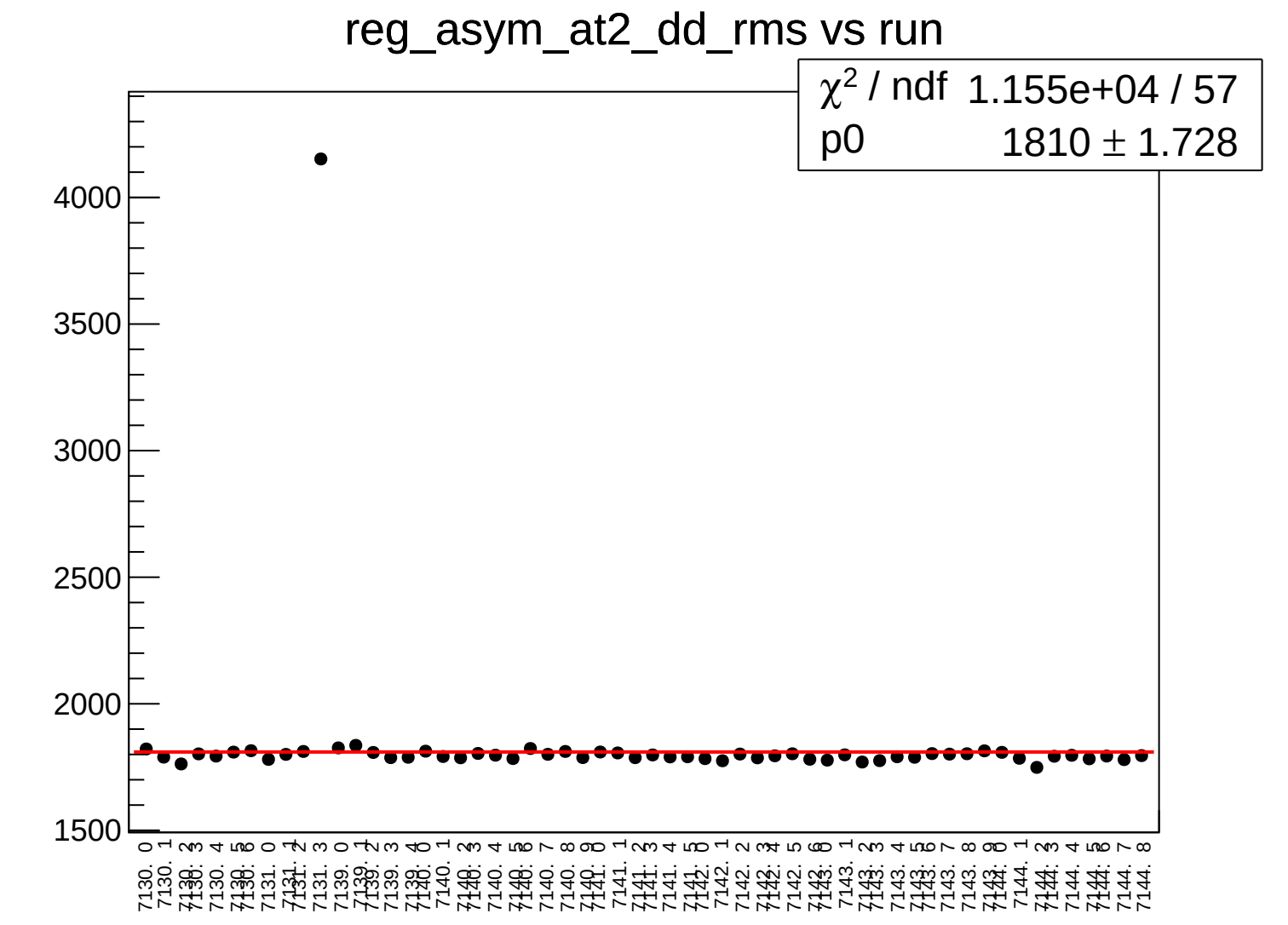

asym_at2_avg_mean vs run
×10^3
χ² / ndf 61.23 / 57
p0 −841.7 ± 1.239e+04
300
200
100
0
−100
−200
−300
pull
Entries 58
Mean −360.2
Std Dev 391.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

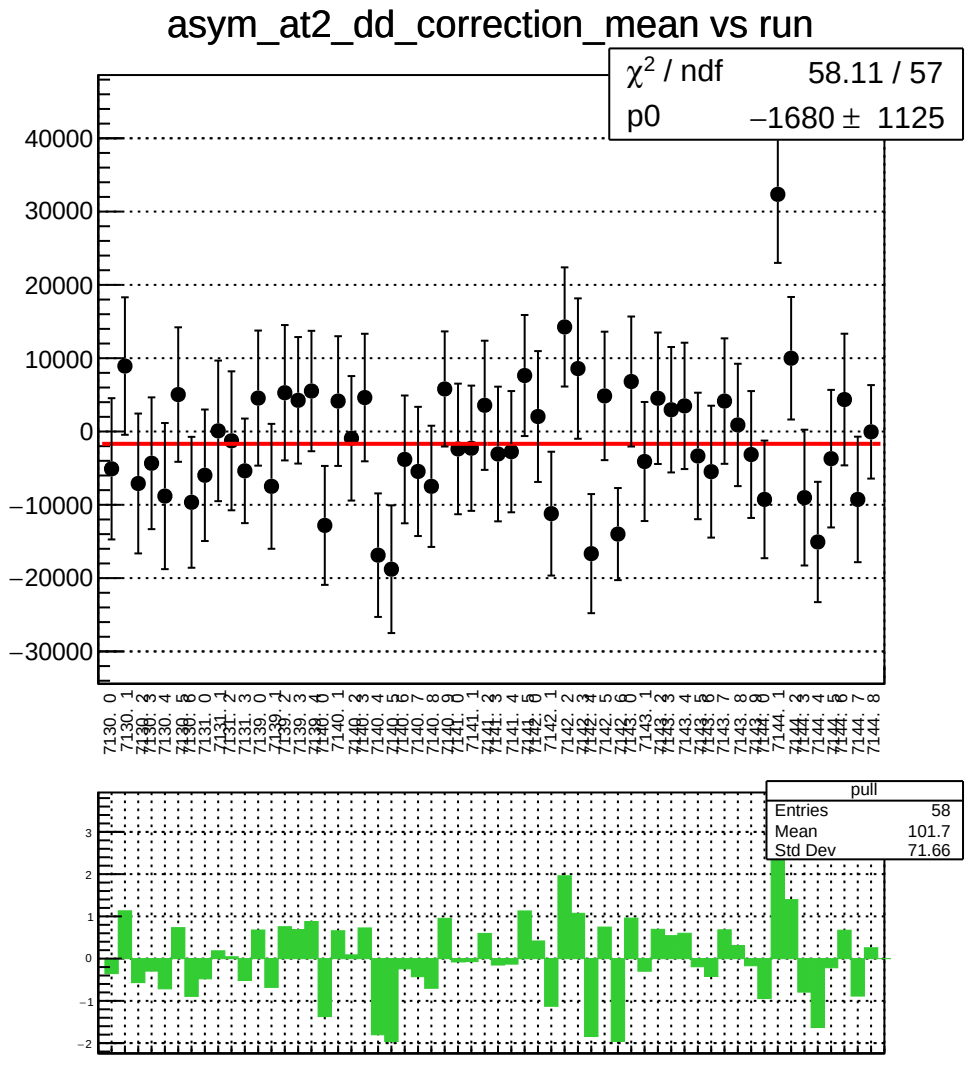

pull1D
Entries 58
Mean 0.0148
Std Dev 1.027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

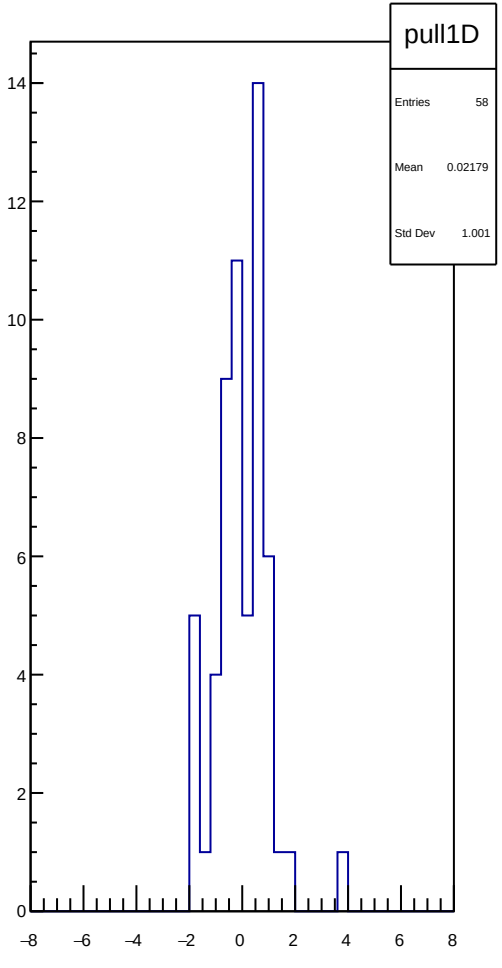

asym_at2_avg_rms vs run
χ² / ndf 6257 / 57
p0 9194 ± 8.759
11500
11000
10500
10000
9500
9000
8500
8000

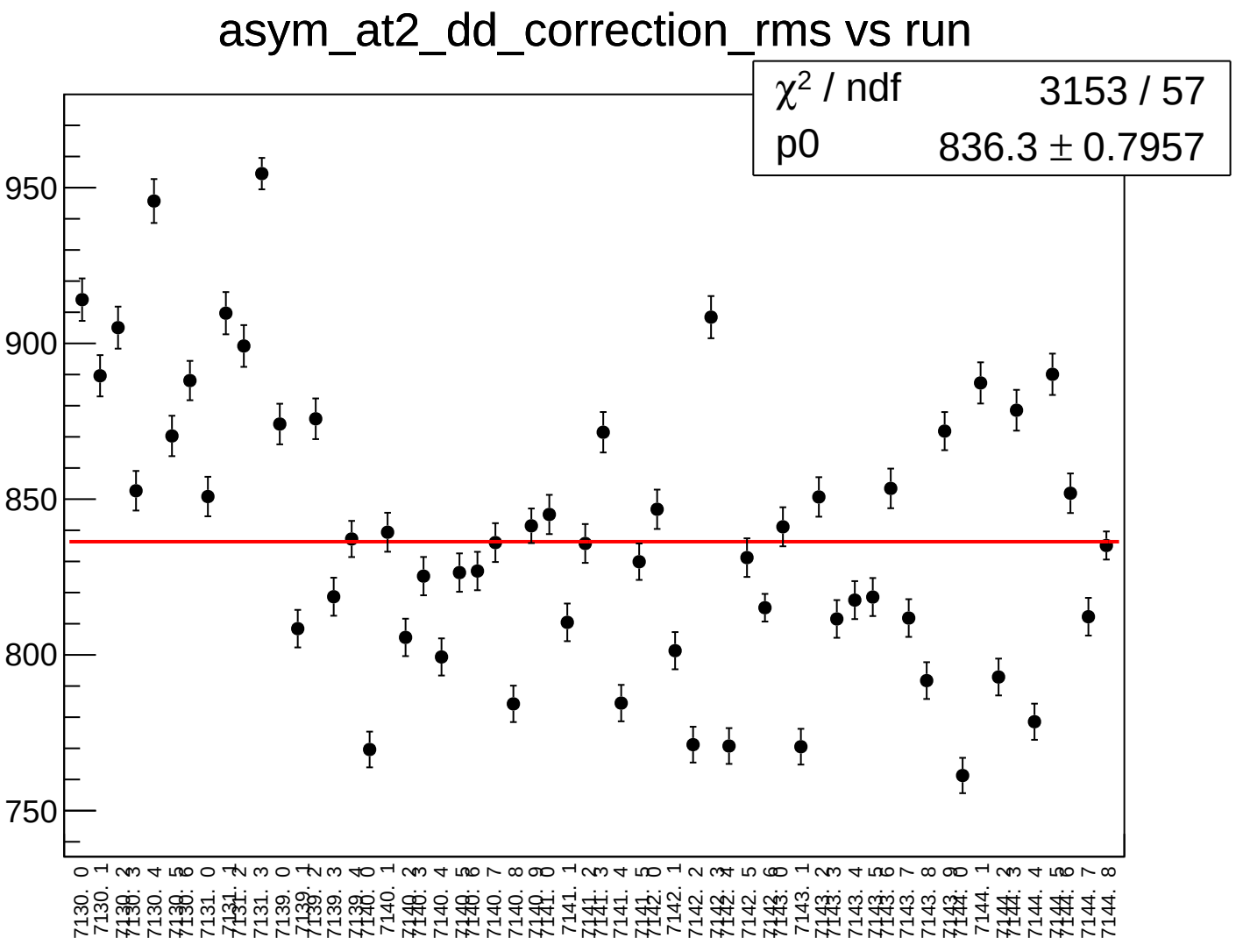

reg_asym_at2_dd_mean vs run
χ² / ndf 49.17 / 57
p0 −1731 ± 2444
pull
Entries 58
Mean 405.6
Std Dev 386.7

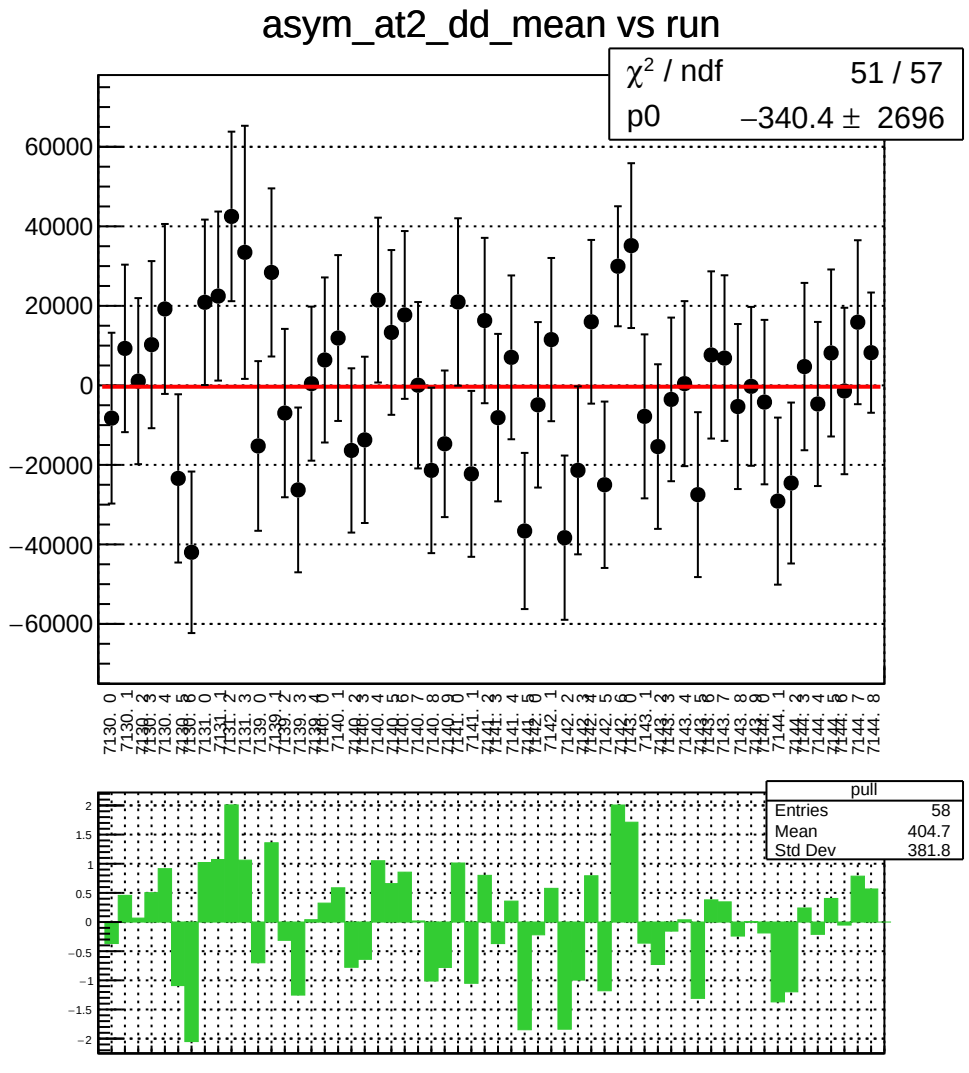

pull1D
Entries 58
Mean −0.002699
Std Dev 0.9208

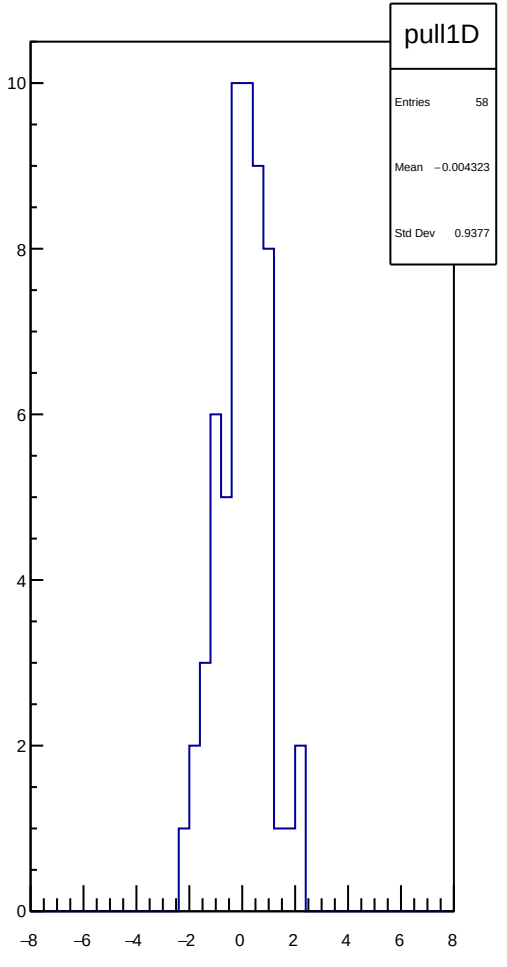

reg_asym_at2_dd_rms vs run
χ² / ndf 1.155e+04 / 57
p0 1810 ± 1.728
4000
3500
3000
2500
2000
1500

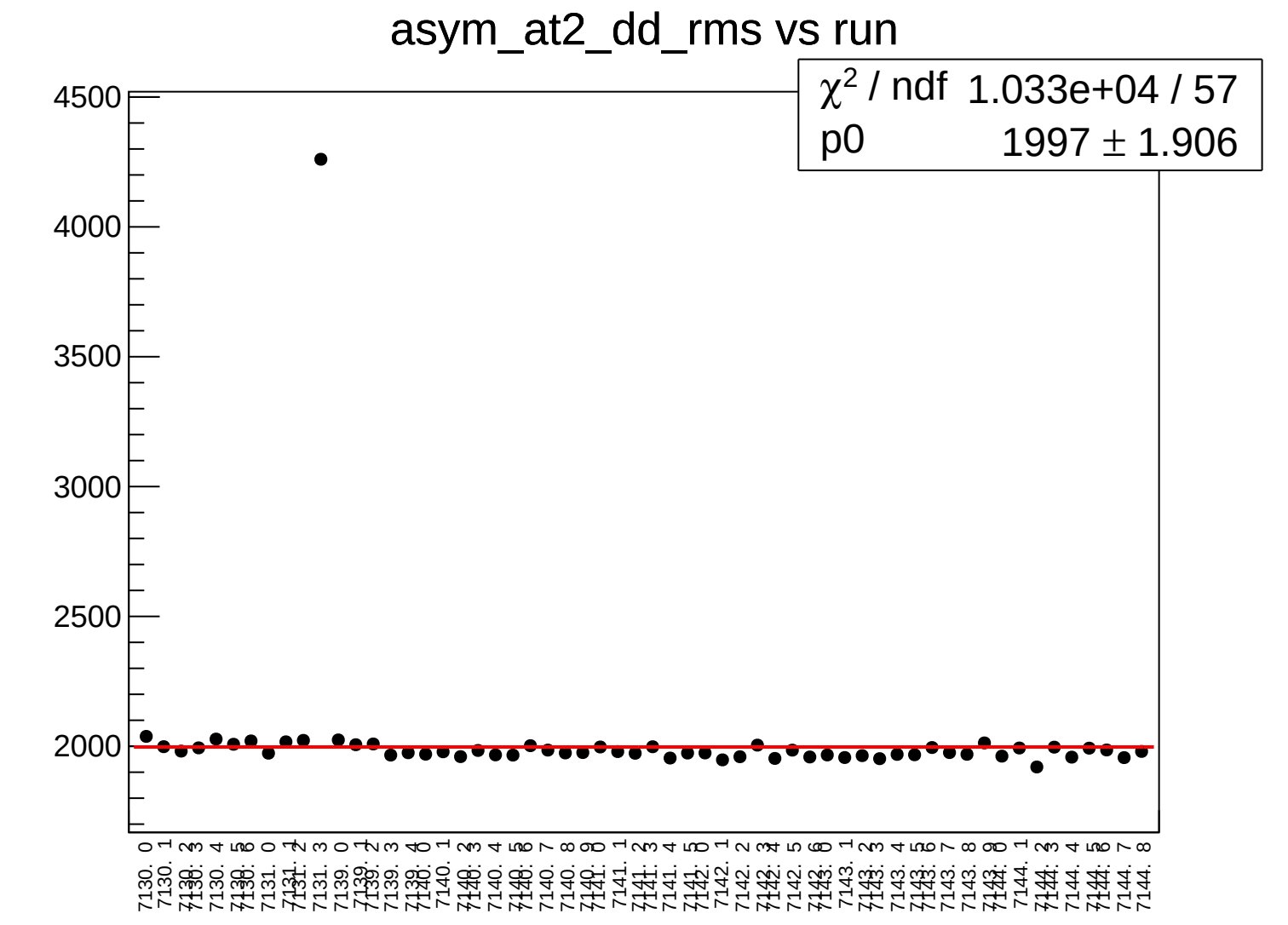

asym_at2_dd_correction_mean vs run
χ² / ndf 58.11 / 57
p0 −1680 ± 1125
pull
Entries 58
Mean 101.7
Std Dev 71.66

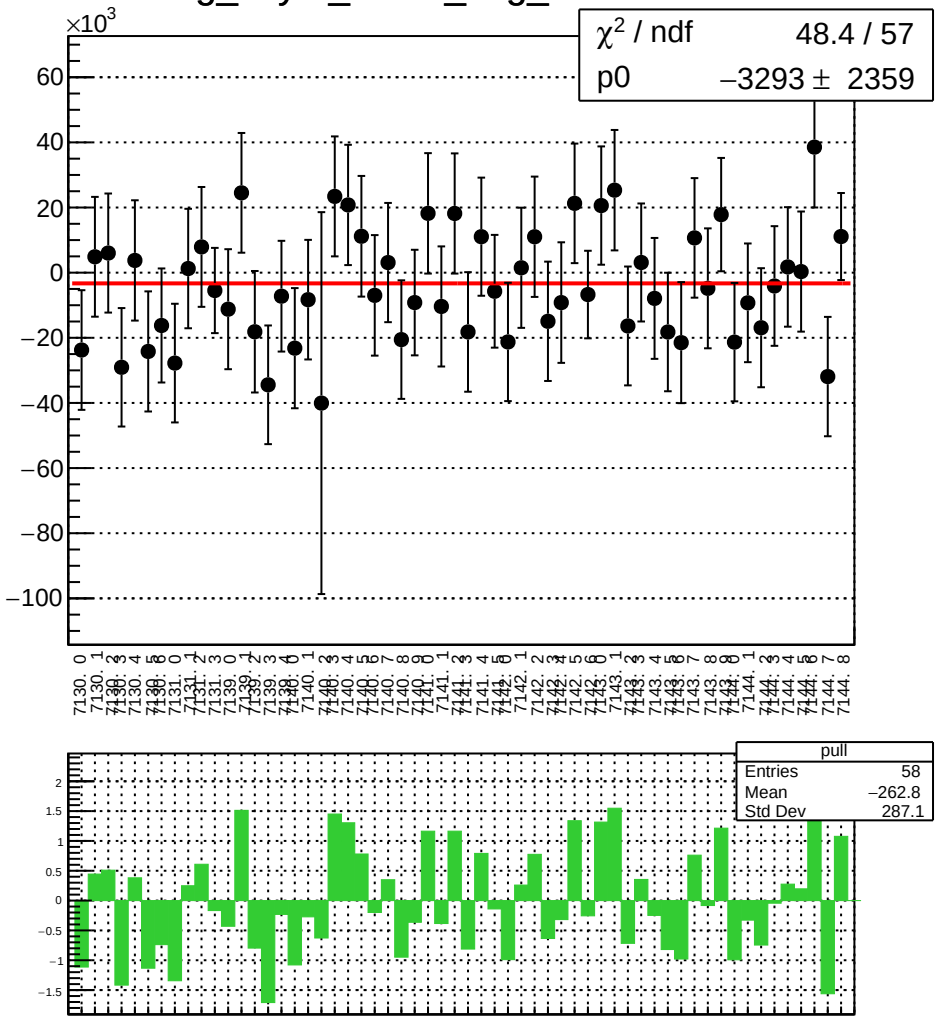

pull1D
Entries 58
Mean 0.02179
Std Dev 1.001

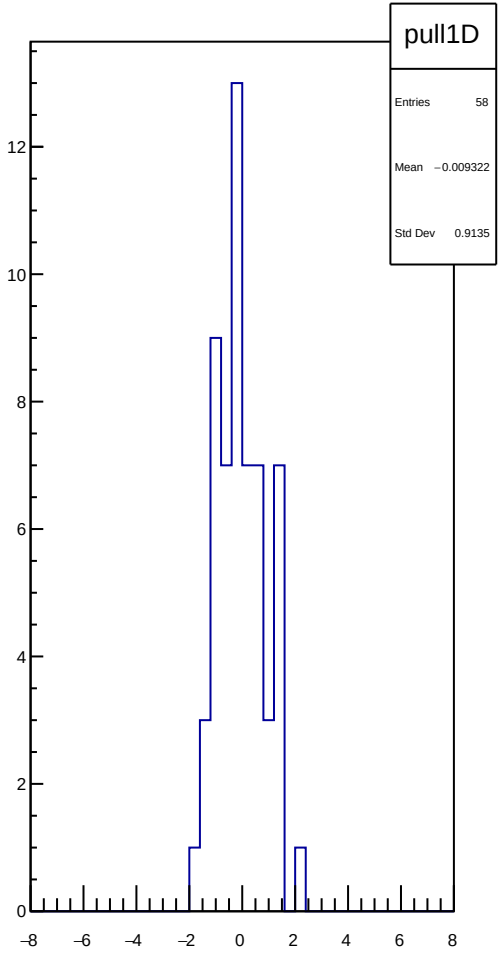

asym_at2_dd_correction_rms vs run
χ² / ndf 3153 / 57
p0 836.3 ± 0.7957
950
900
850
800
750

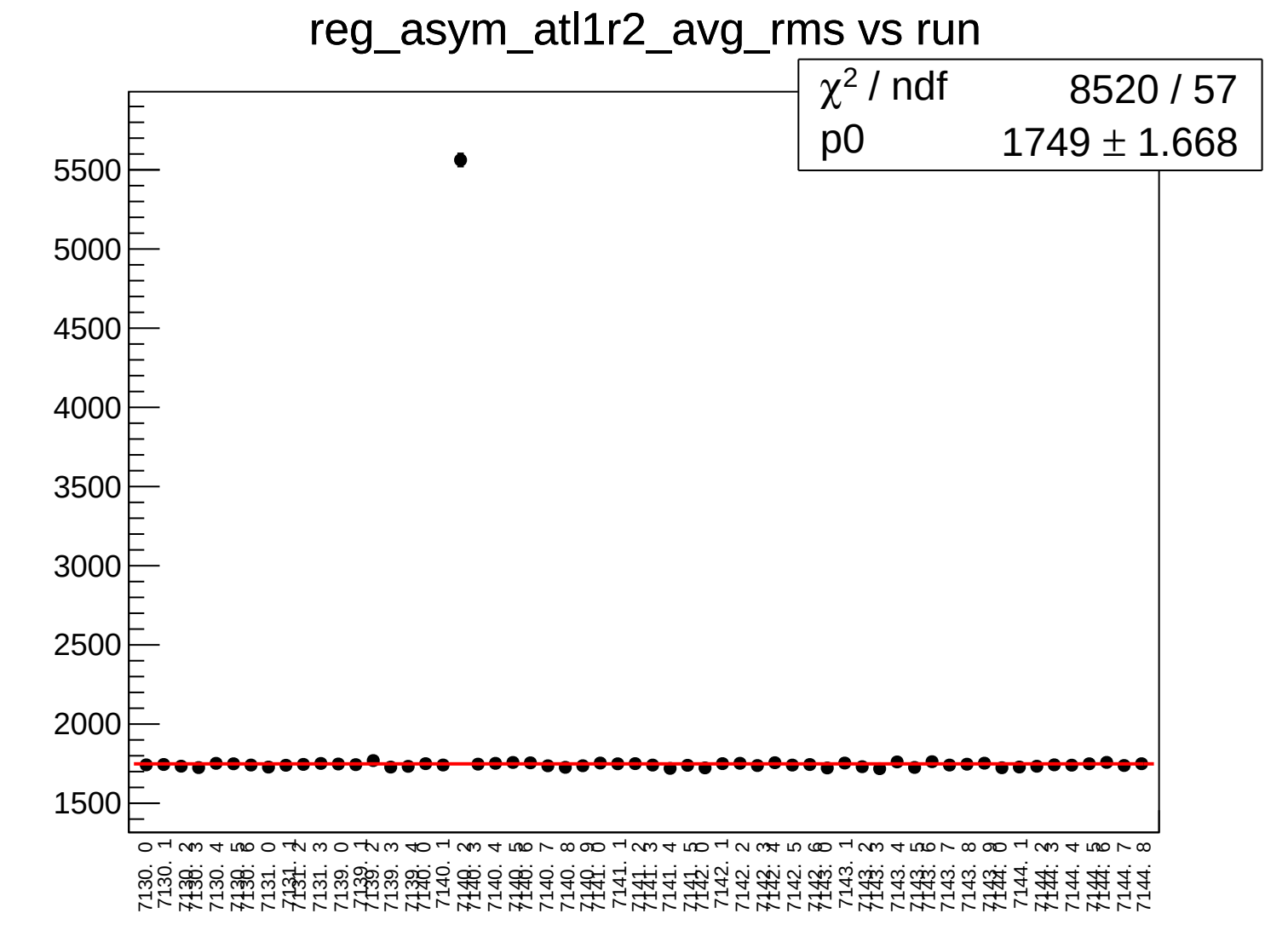

asym_at2_dd_mean vs run
χ² / ndf 51 / 57
p0 −340.4 ± 2696
pull
Entries 58
Mean 404.7
Std Dev 381.8

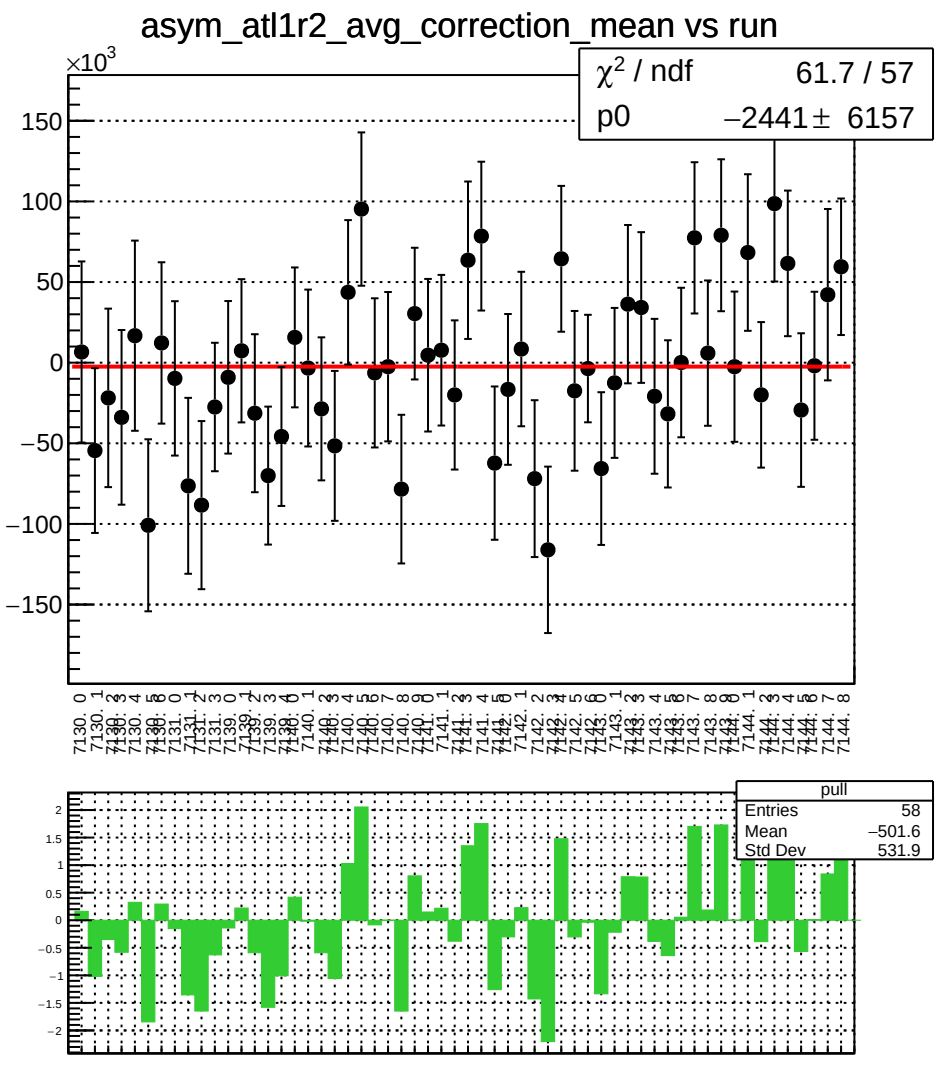

pull1D
Entries 58
Mean −0.004323
Std Dev 0.9377

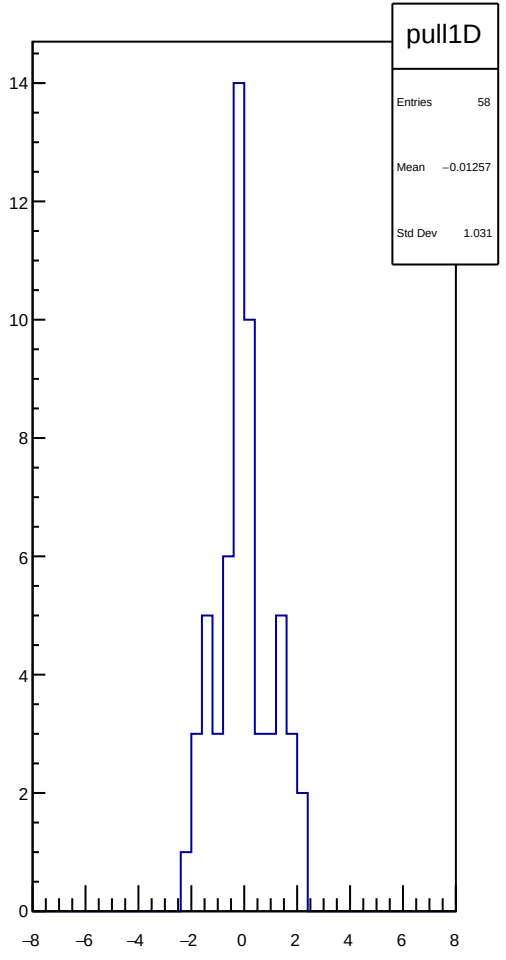

asym_at2_dd_rms vs run
χ^2 / ndf 1.033e+04 / 57
p0 1997 ± 1.906
4500
4000
3500
3000
2500
2000

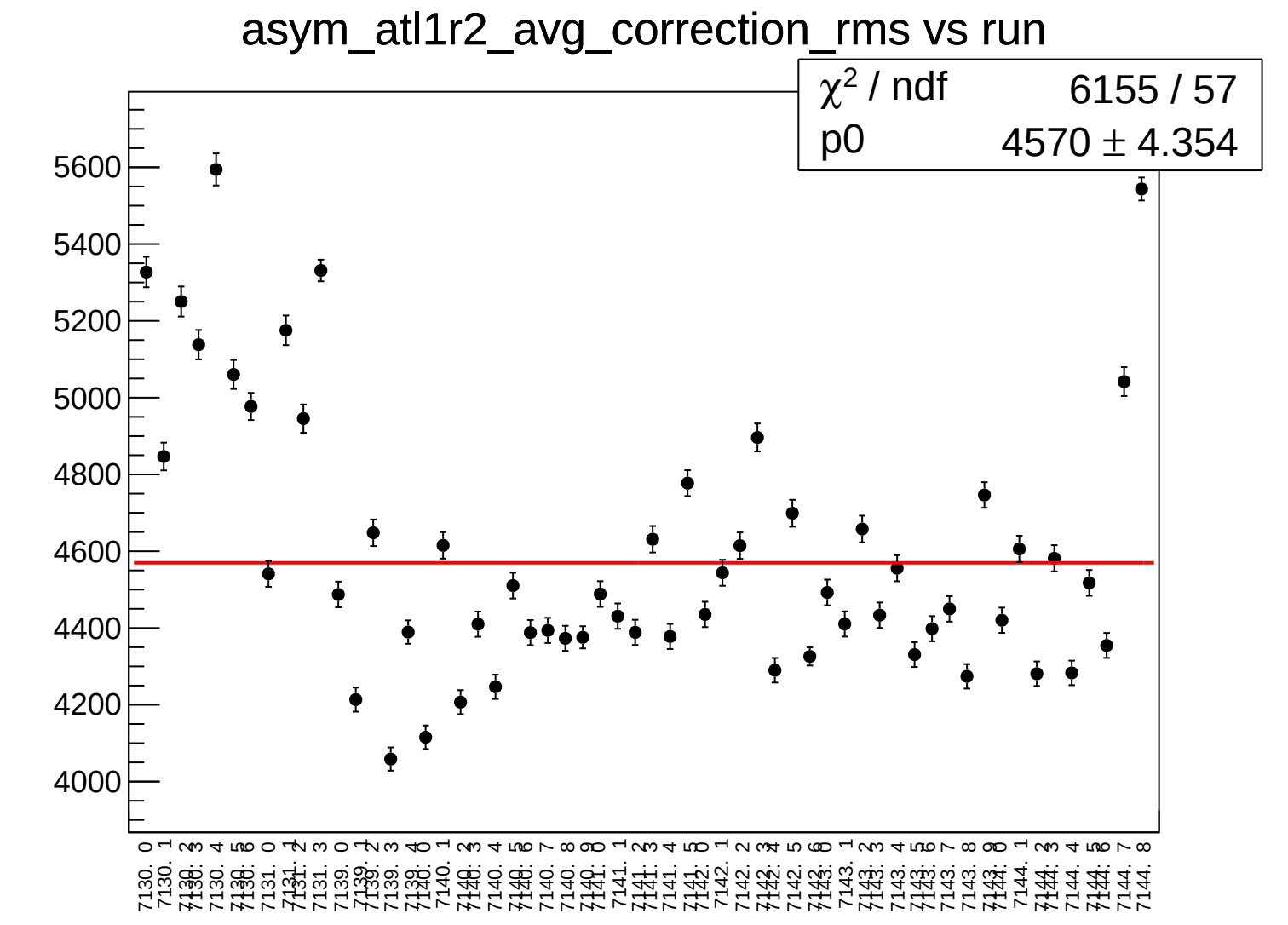

reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 48.4 / 57
p0 −3293 ± 2359
pull
Entries 58
Mean −262.8
Std Dev 287.1

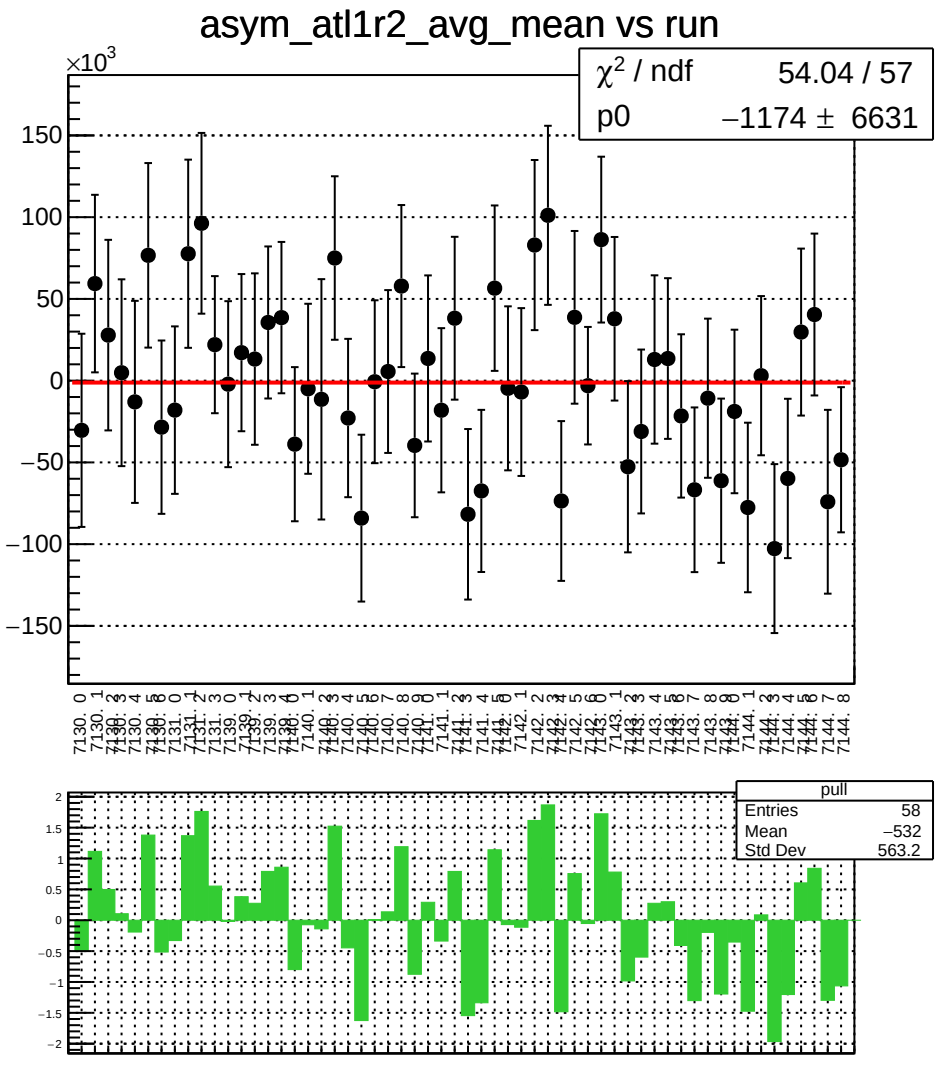

pull1D
Entries 58
Mean −0.009322
Std Dev 0.9135

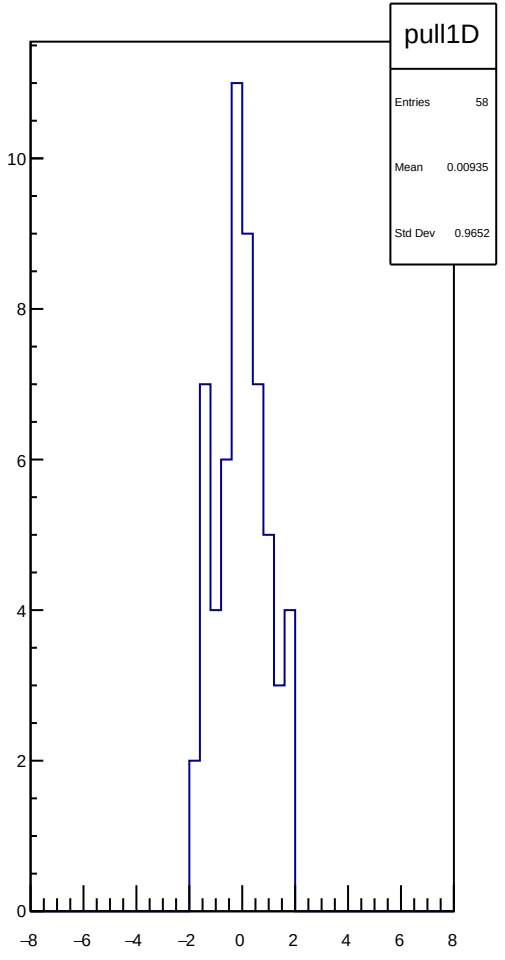

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 8520 / 57
p0 1749 ± 1.668
5500
5000
4500
4000
3500
3000
2500
2000
1500
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

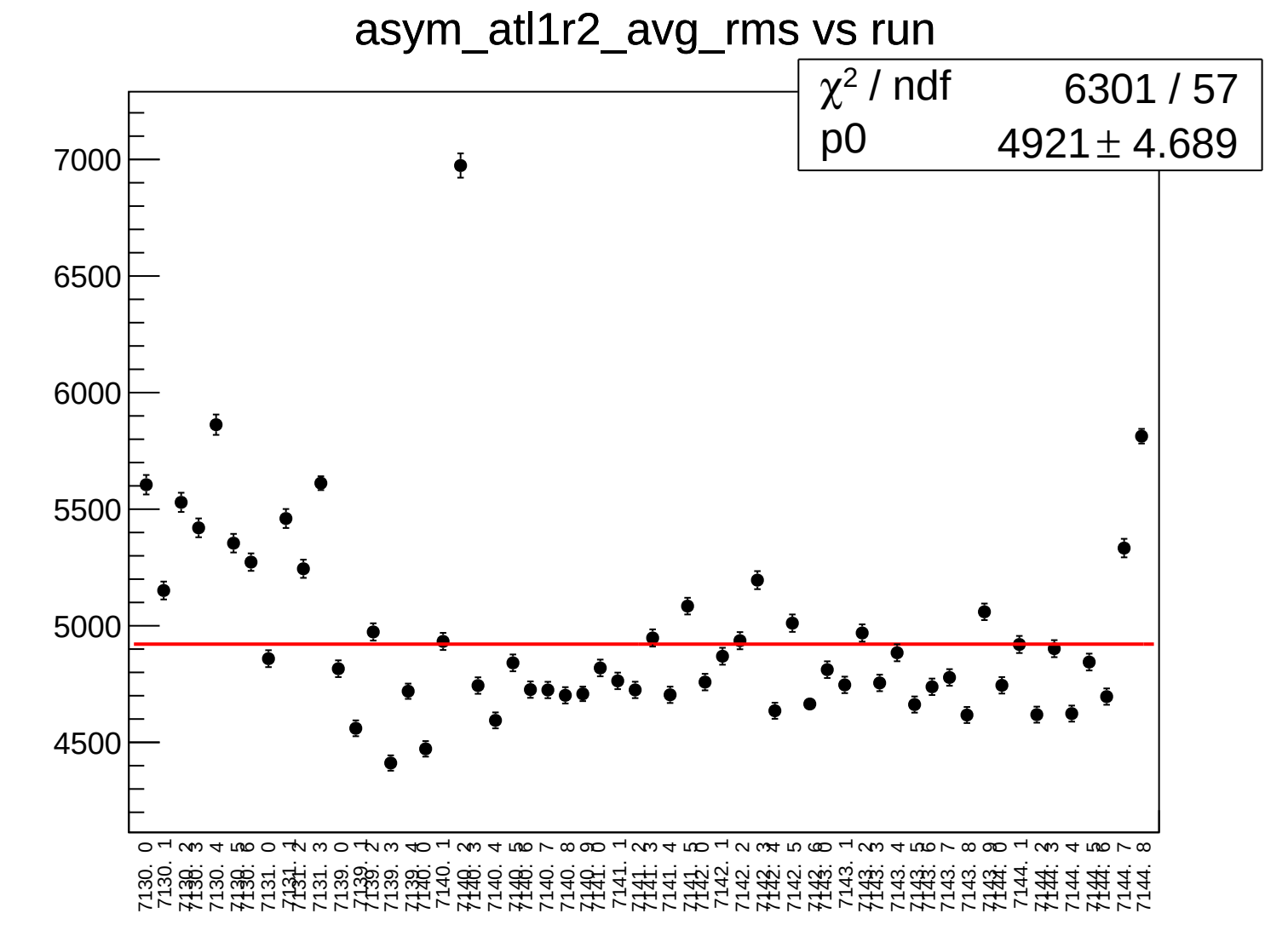

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 61.7 / 57
p0 −2441 ± 6157
150
100
50
0
−50
−100
−150
pull
Entries 58
Mean −501.6
Std Dev 531.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

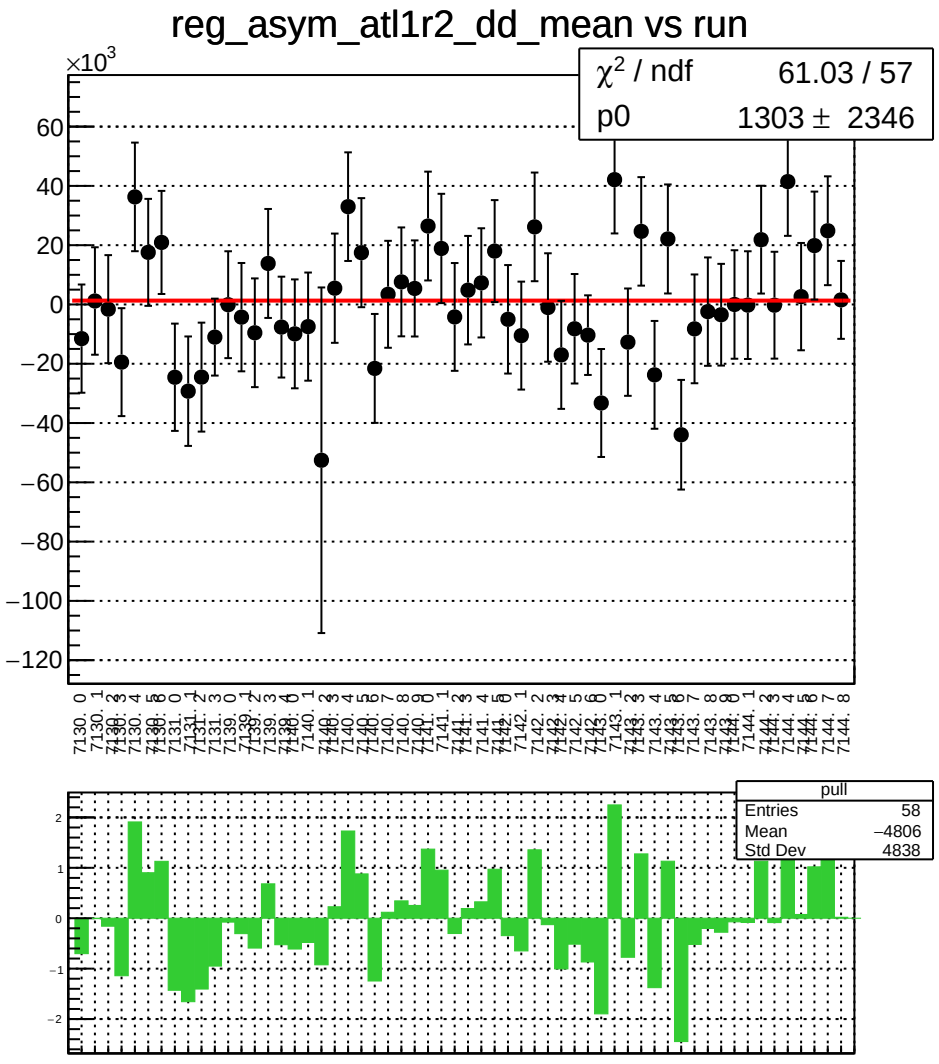

pull1D
Entries 58
Mean −0.01257
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

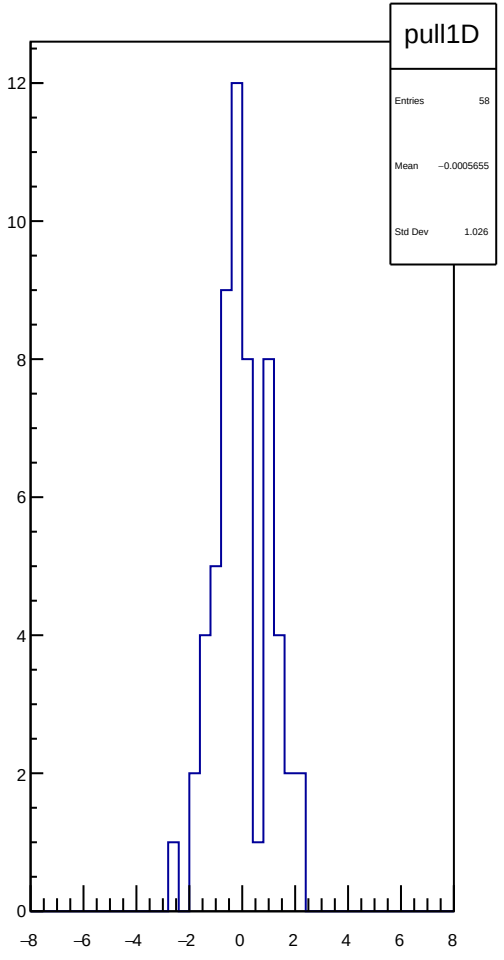

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 6155 / 57
p0 4570 ± 4.354
5600
5400
5200
5000
4800
4600
4400
4200
4000

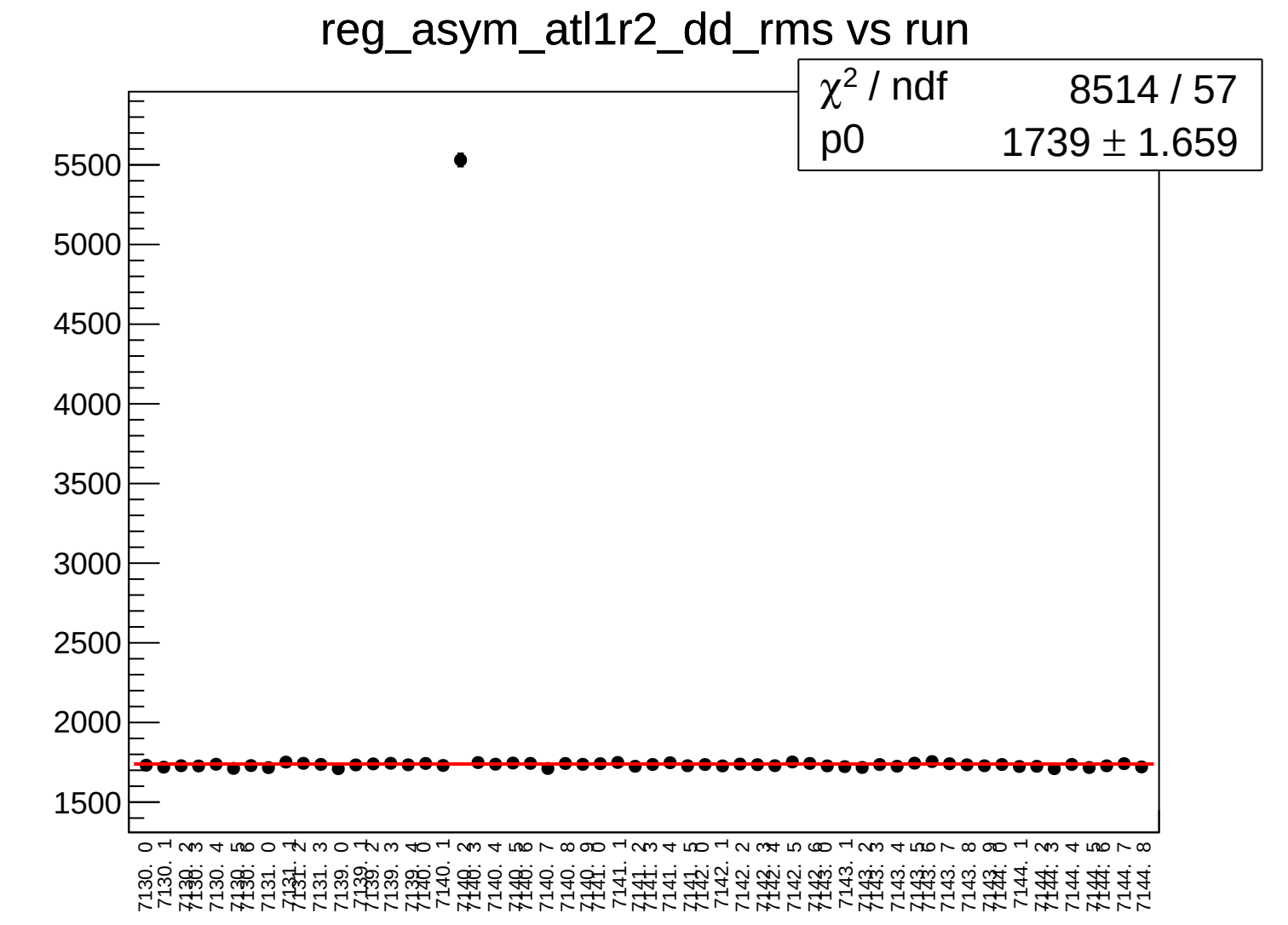

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 54.04 / 57
p0 −1174 ± 6631
150
100
50
0
−50
−100
−150
pull
Entries 58
Mean −532
Std Dev 563.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

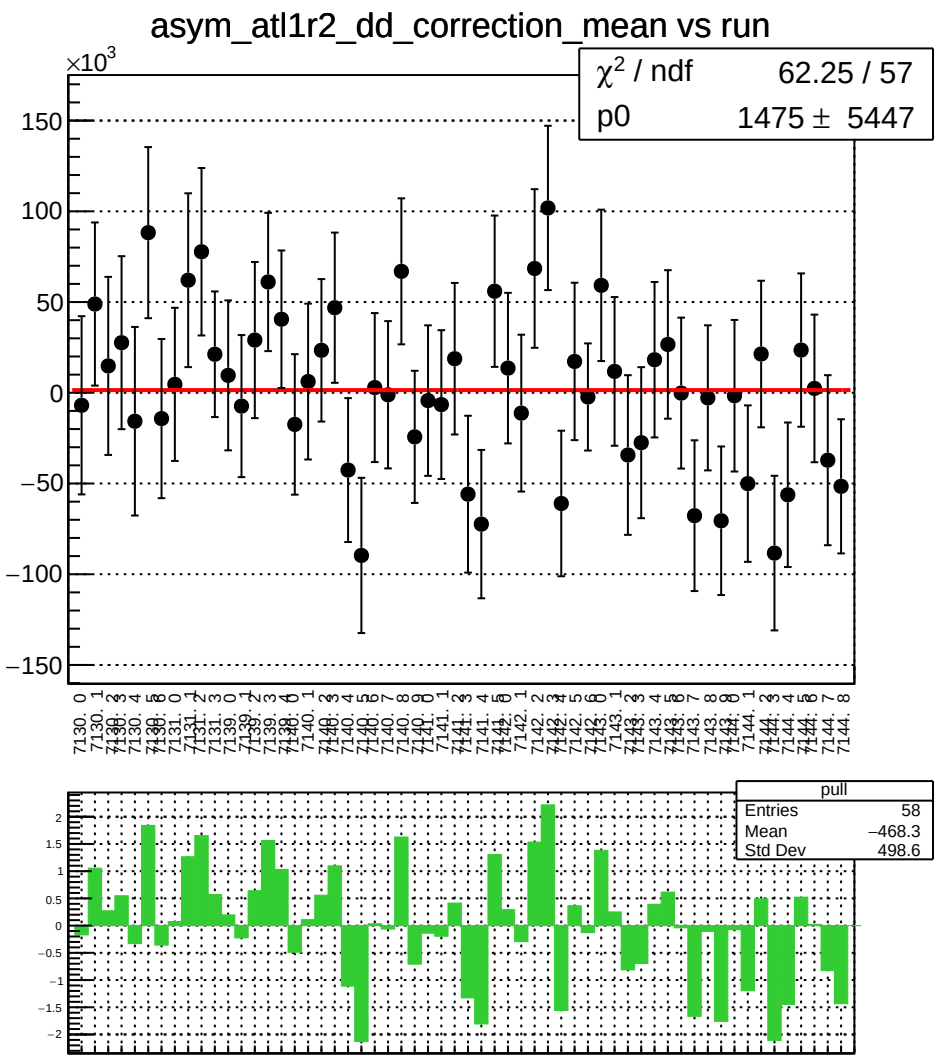

pull1D
Entries 58
Mean 0.00935
Std Dev 0.9652
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

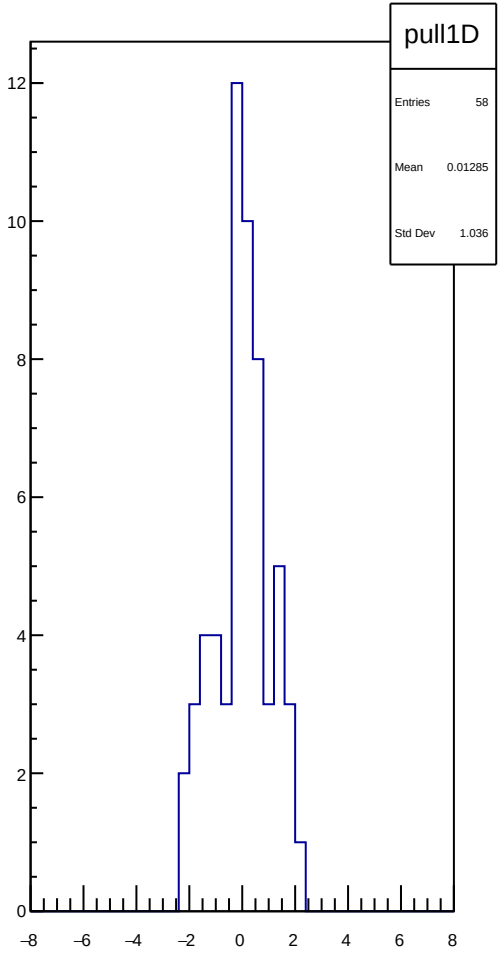

asym_atl1r2_avg_rms vs run
χ^2 / ndf 6301 / 57
p0 4921 ± 4.689
7000
6500
6000
5500
5000
4500

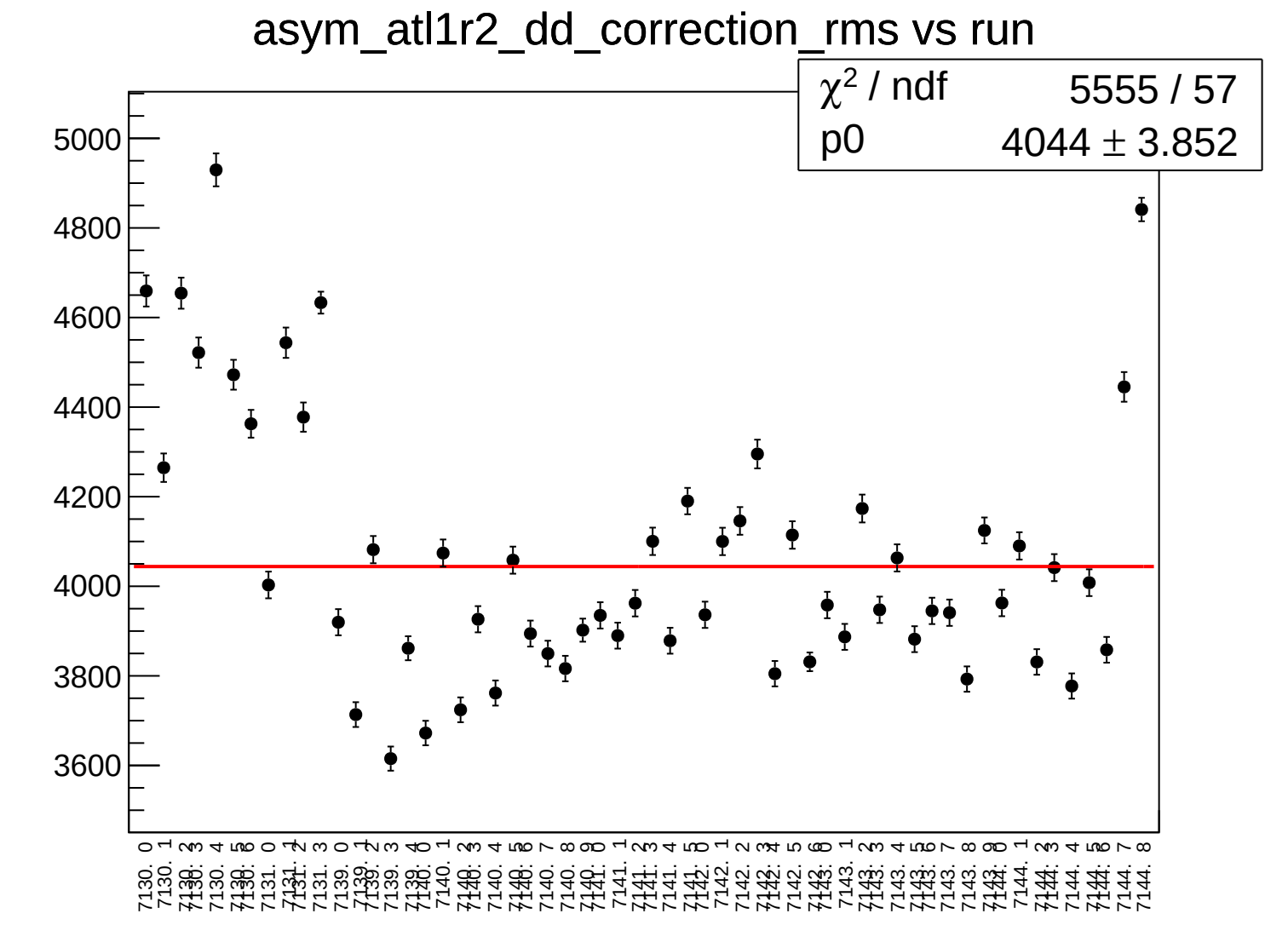

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 61.03 / 57
p0 1303 ± 2346
pull
Entries 58
Mean −4806
Std Dev 4838

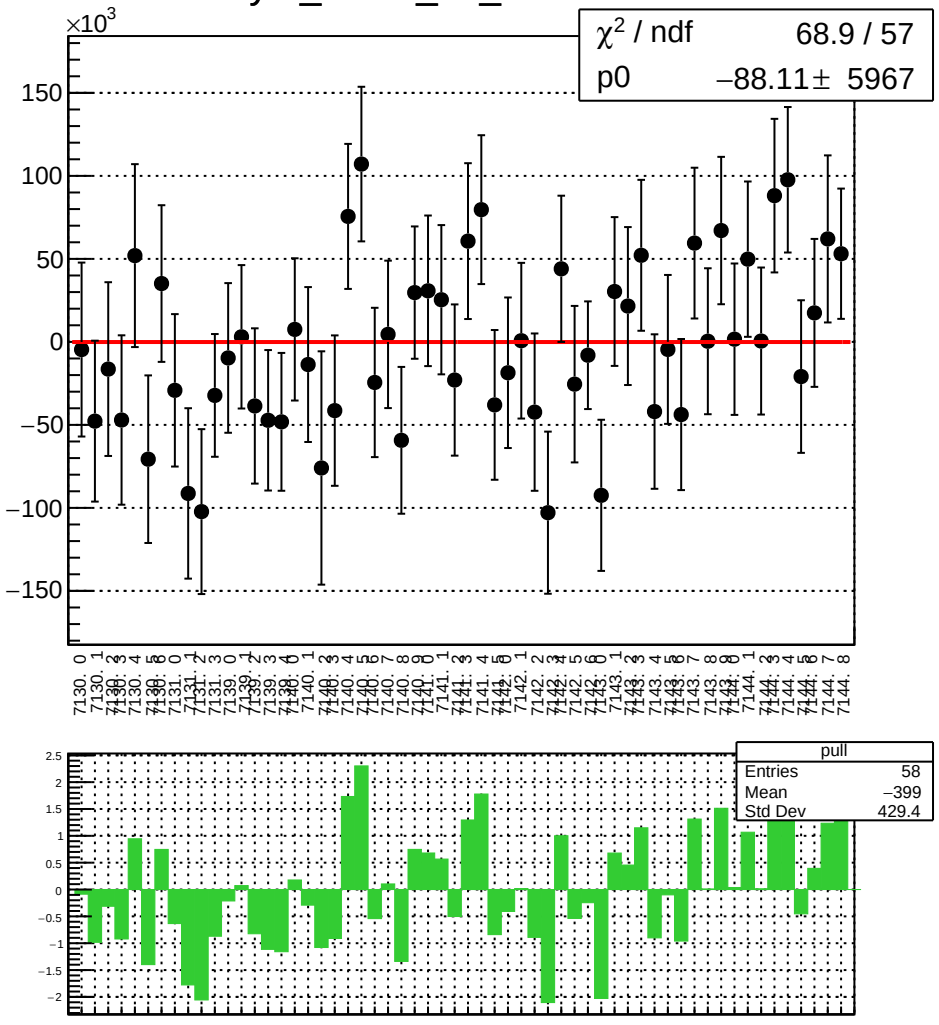

pull1D
Entries 58
Mean −0.0005655
Std Dev 1.026

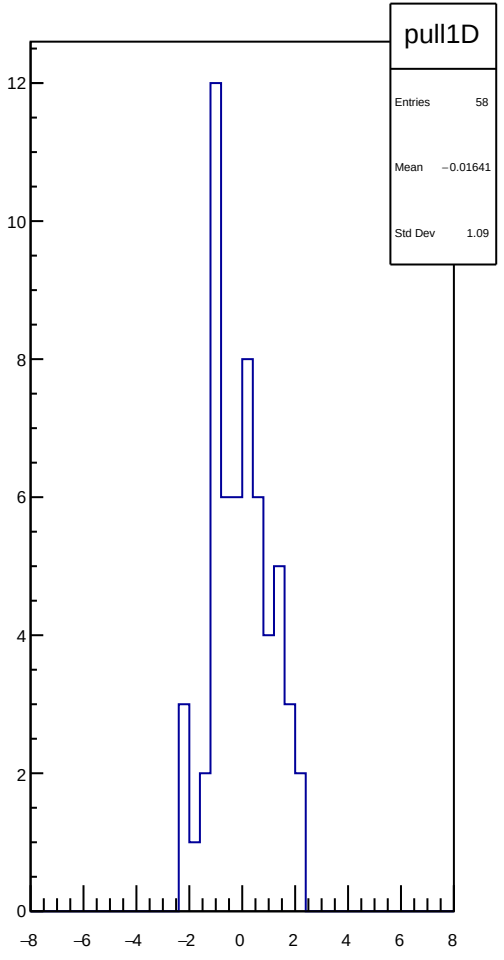

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 8514 / 57
p0 1739 ± 1.659
5500
5000
4500
4000
3500
3000
2500
2000
1500
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

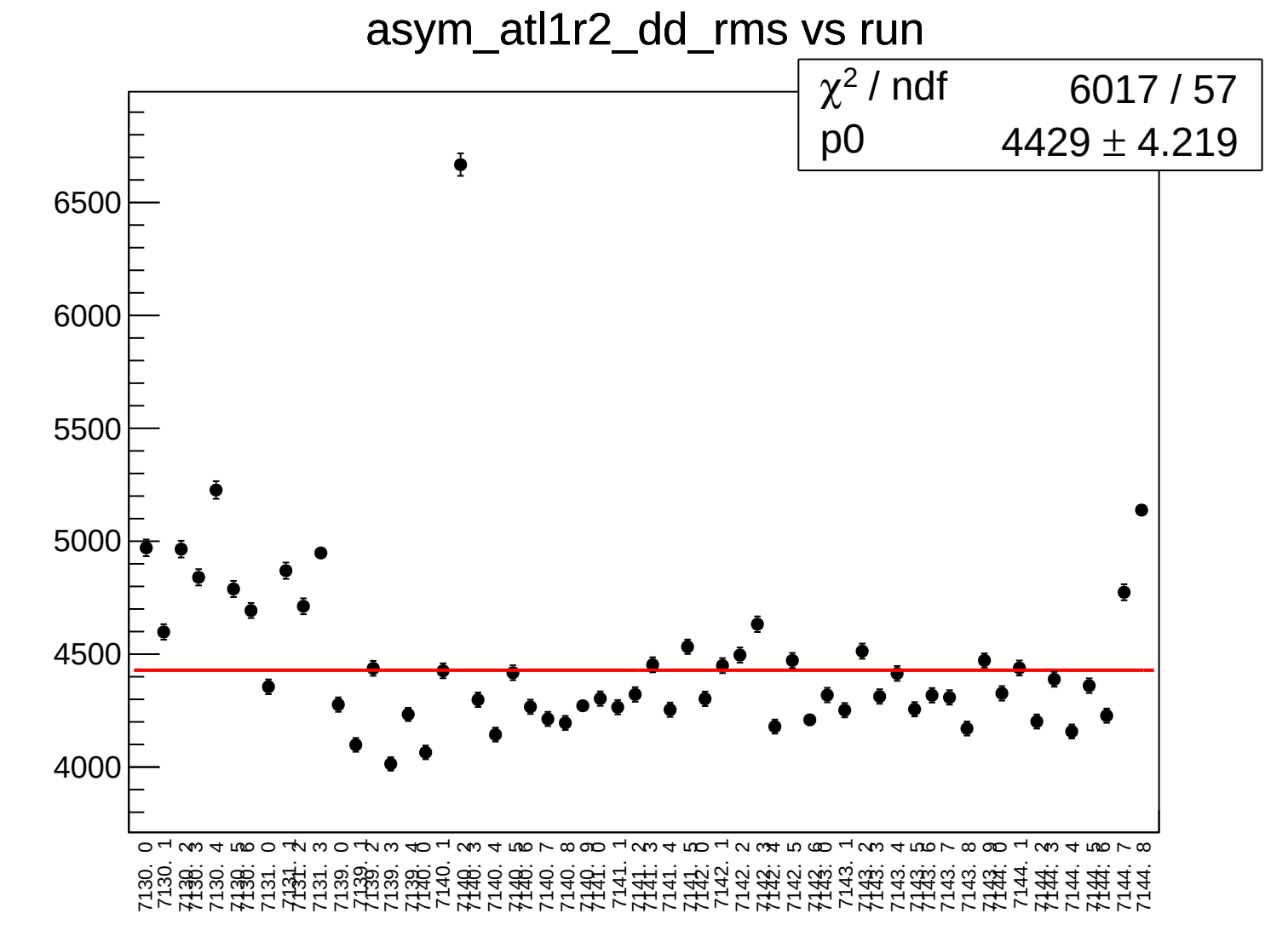

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 62.25 / 57
p0 1475 ± 5447
150
100
50
0
−50
−100
−150
pull
Entries 58
Mean −468.3
Std Dev 498.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

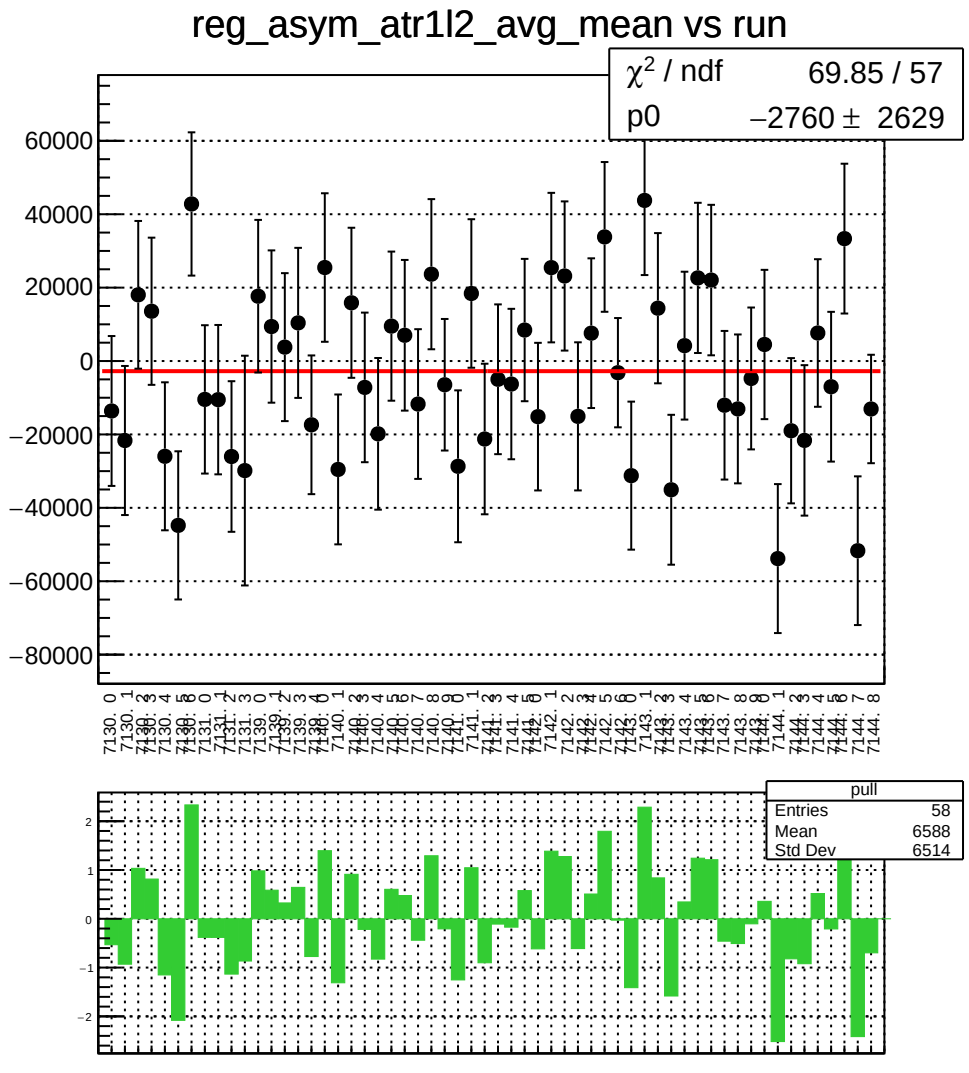

pull1D
Entries 58
Mean 0.01285
Std Dev 1.036
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

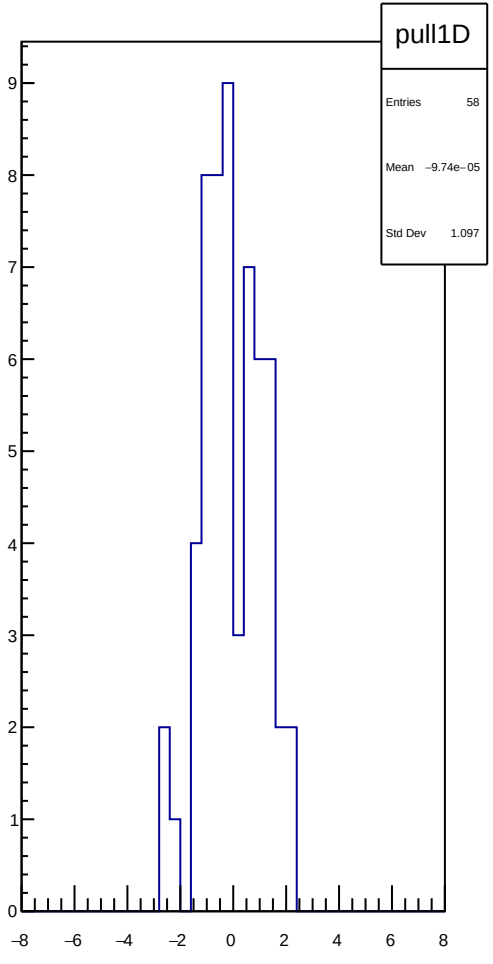

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 5555 / 57
p0 4044 ± 3.852
5000
4800
4600
4400
4200
4000
3800
3600

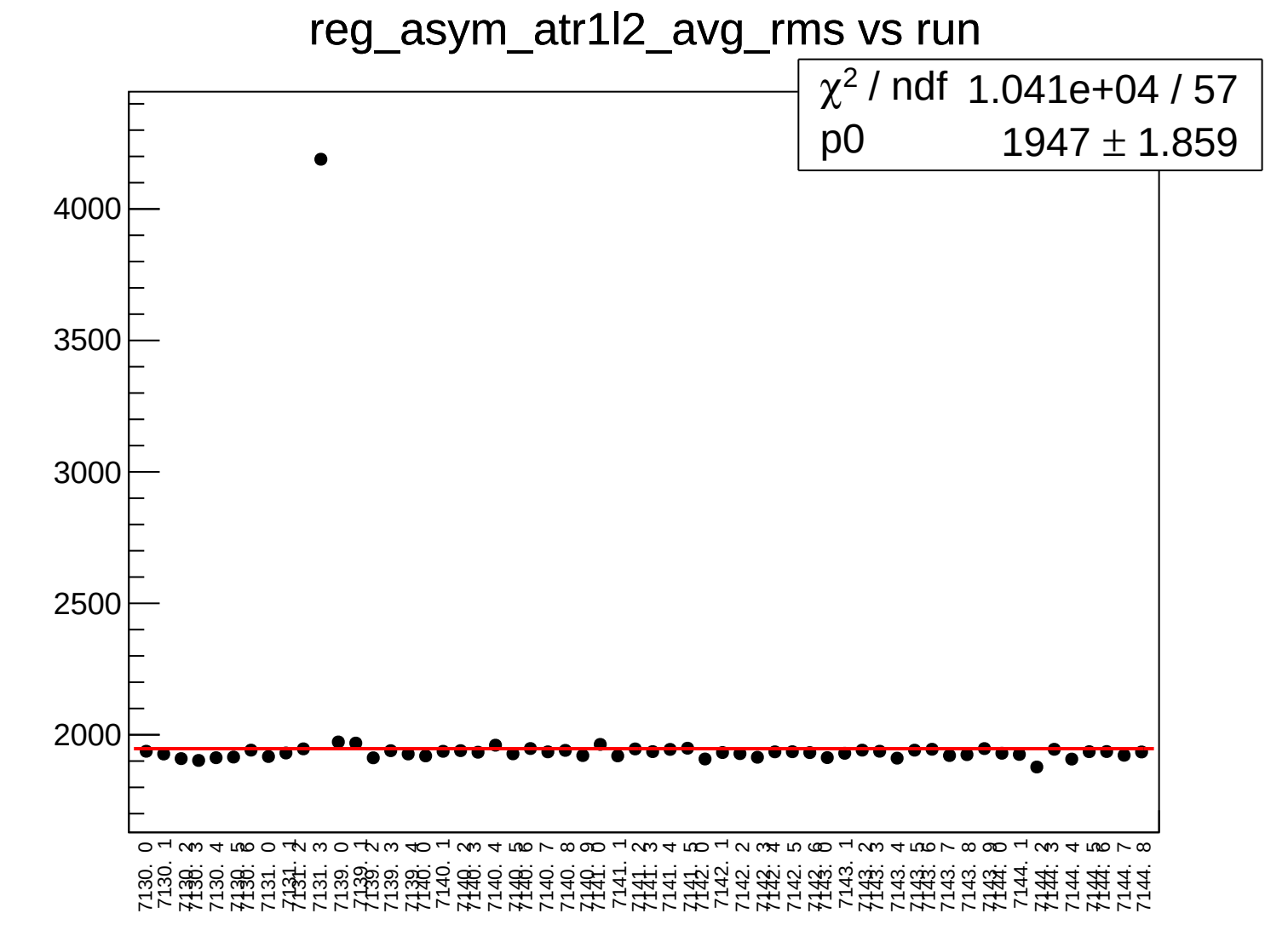

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 68.9 / 57
p0 −88.11± 5967
150
100
50
0
−50
−100
−150
pull
Entries 58
Mean −399
Std Dev 429.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

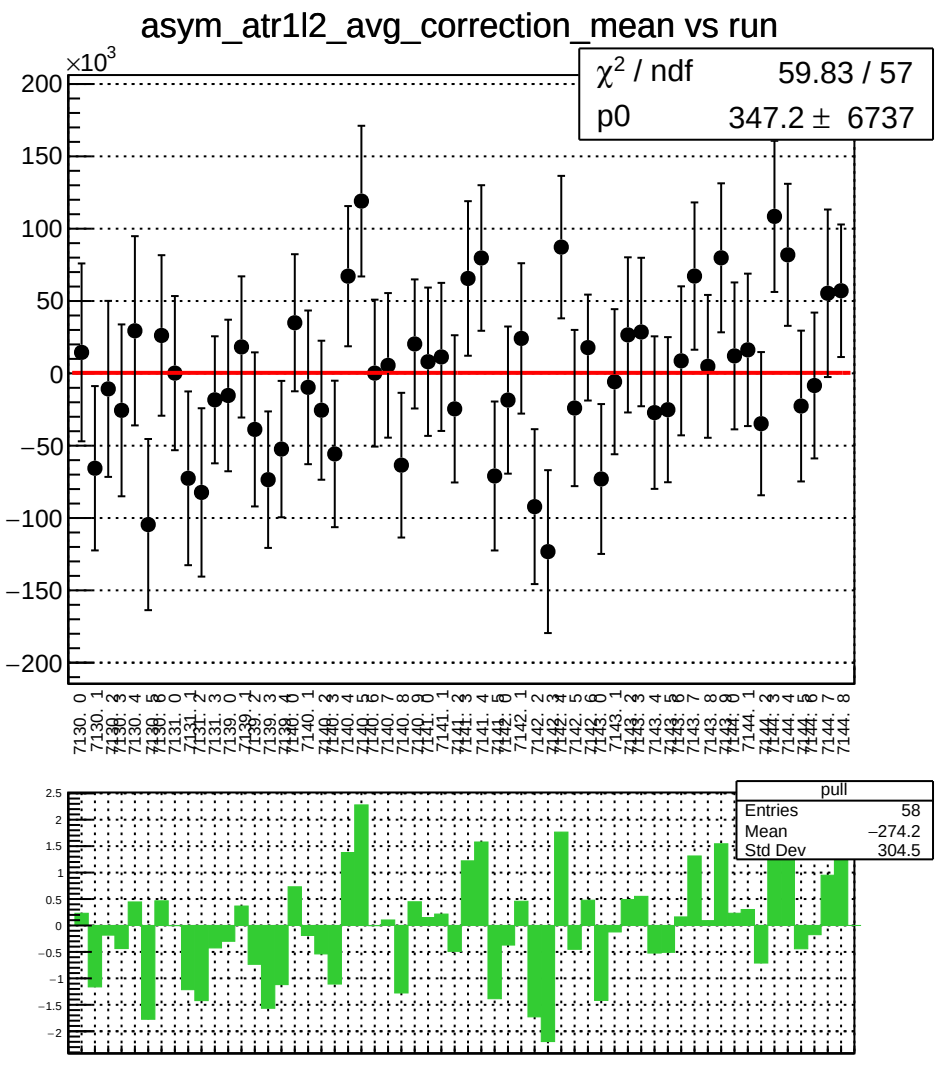

pull1D
Entries 58
Mean −0.01641
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

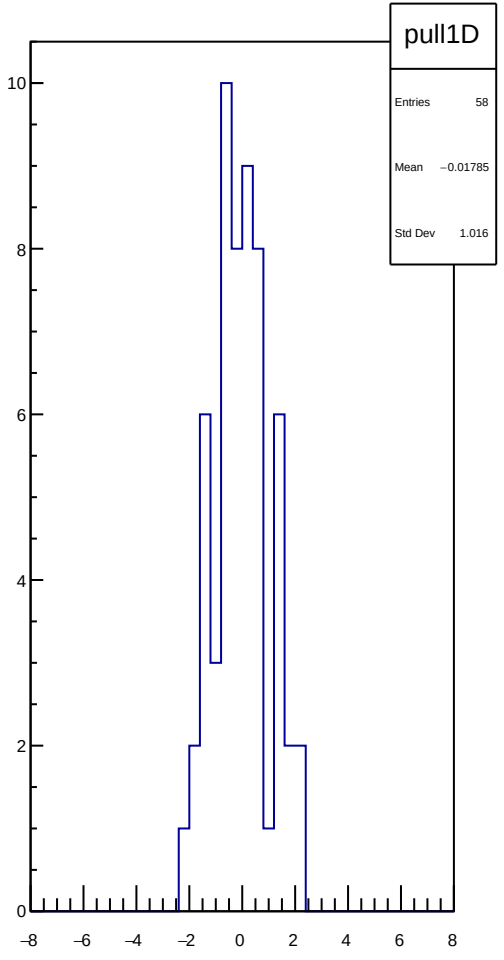

asym_atl1r2_dd_rms vs run
χ² / ndf 6017 / 57
p0 4429 ± 4.219
6500
6000
5500
5000
4500
4000

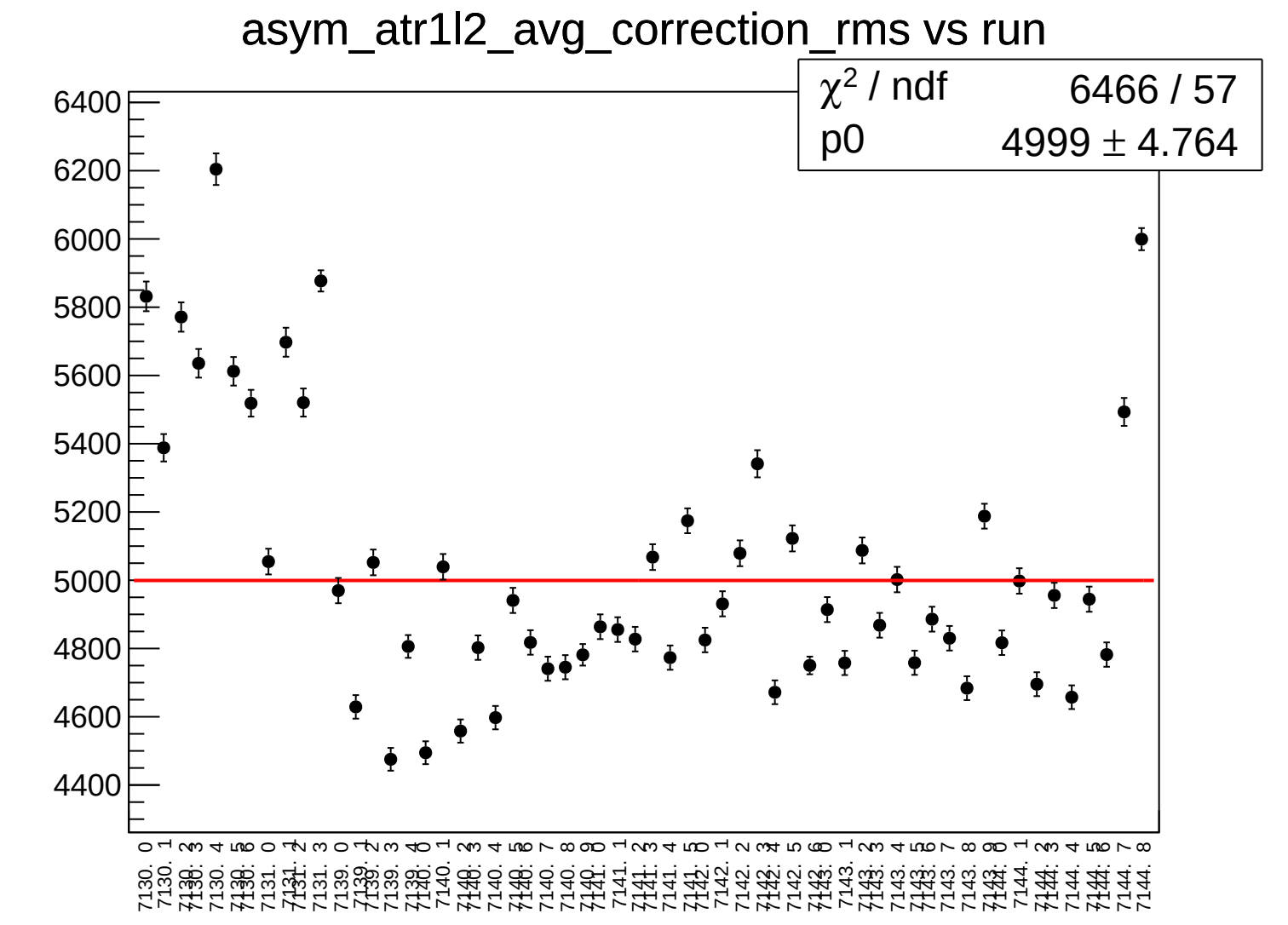

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 69.85 / 57
p0 −2760 ± 2629
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 58
Mean 6588
Std Dev 6514
2
1
0
−1
−2

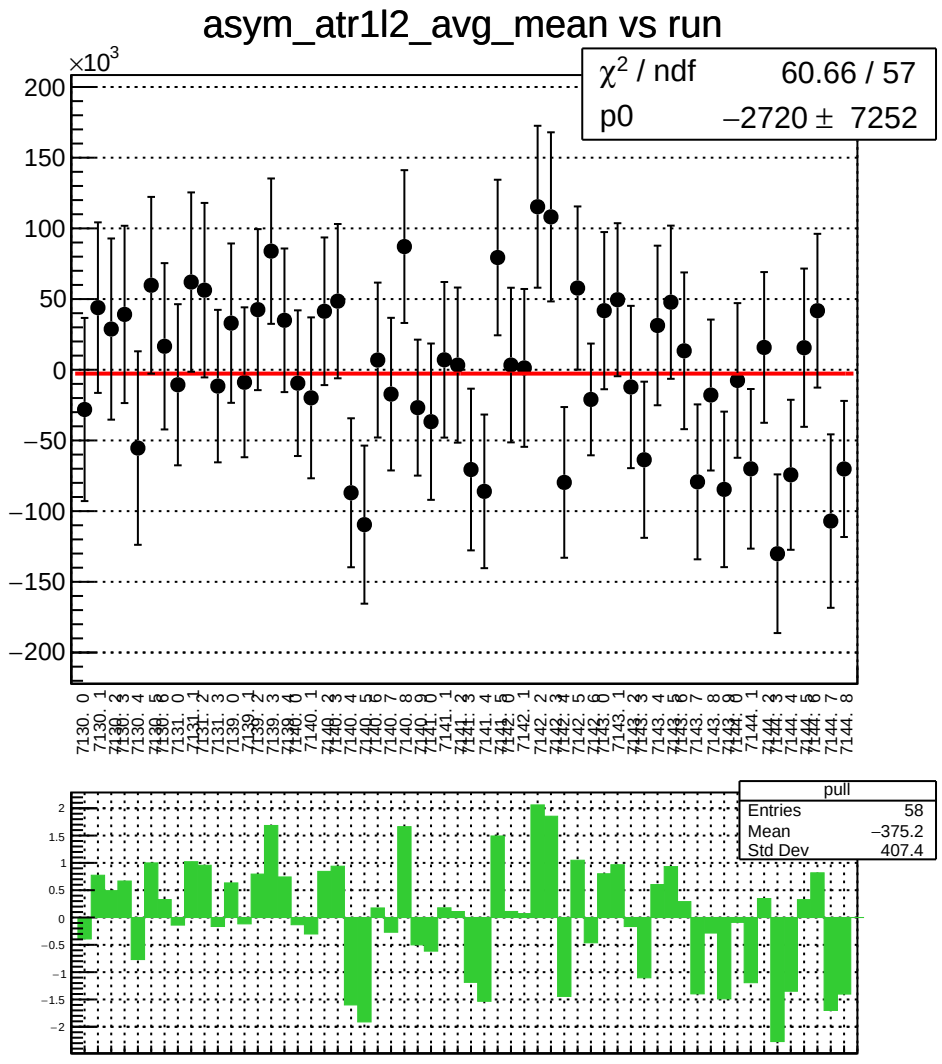

pull1D
Entries 58
Mean −9.74e−05
Std Dev 1.097
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

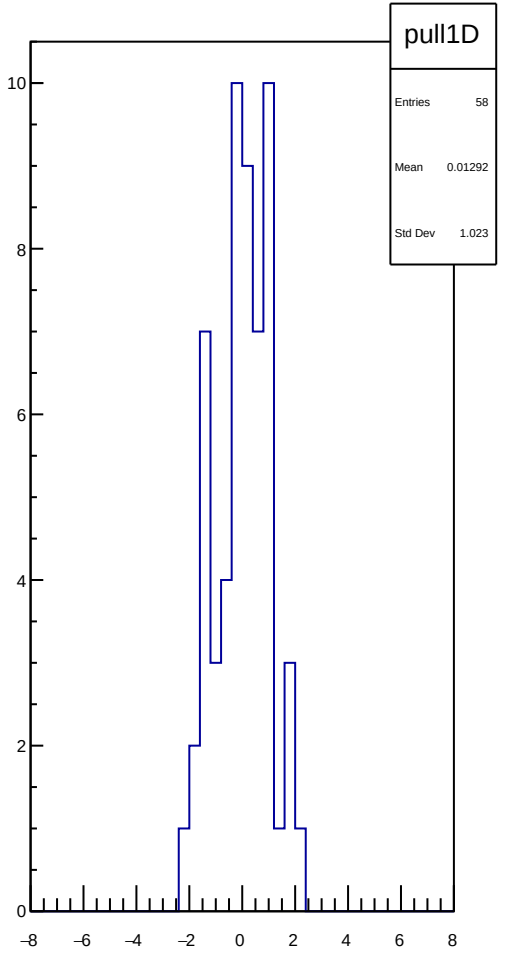

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 1.041e+04 / 57
p0 1947 ± 1.859
4000
3500
3000
2500
2000

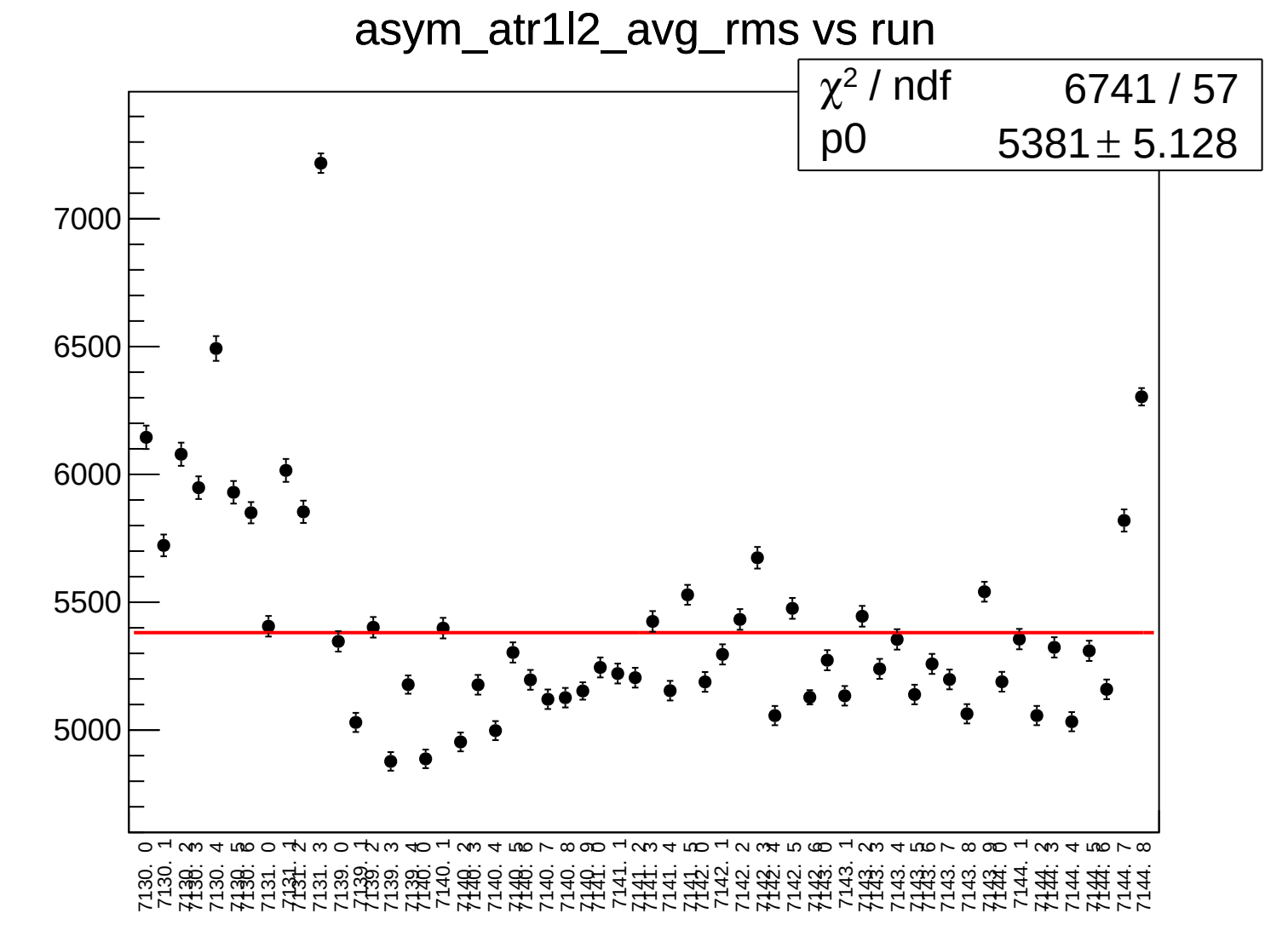

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 59.83 / 57
p0 347.2 ± 6737
pull
Entries 58
Mean −274.2
Std Dev 304.5

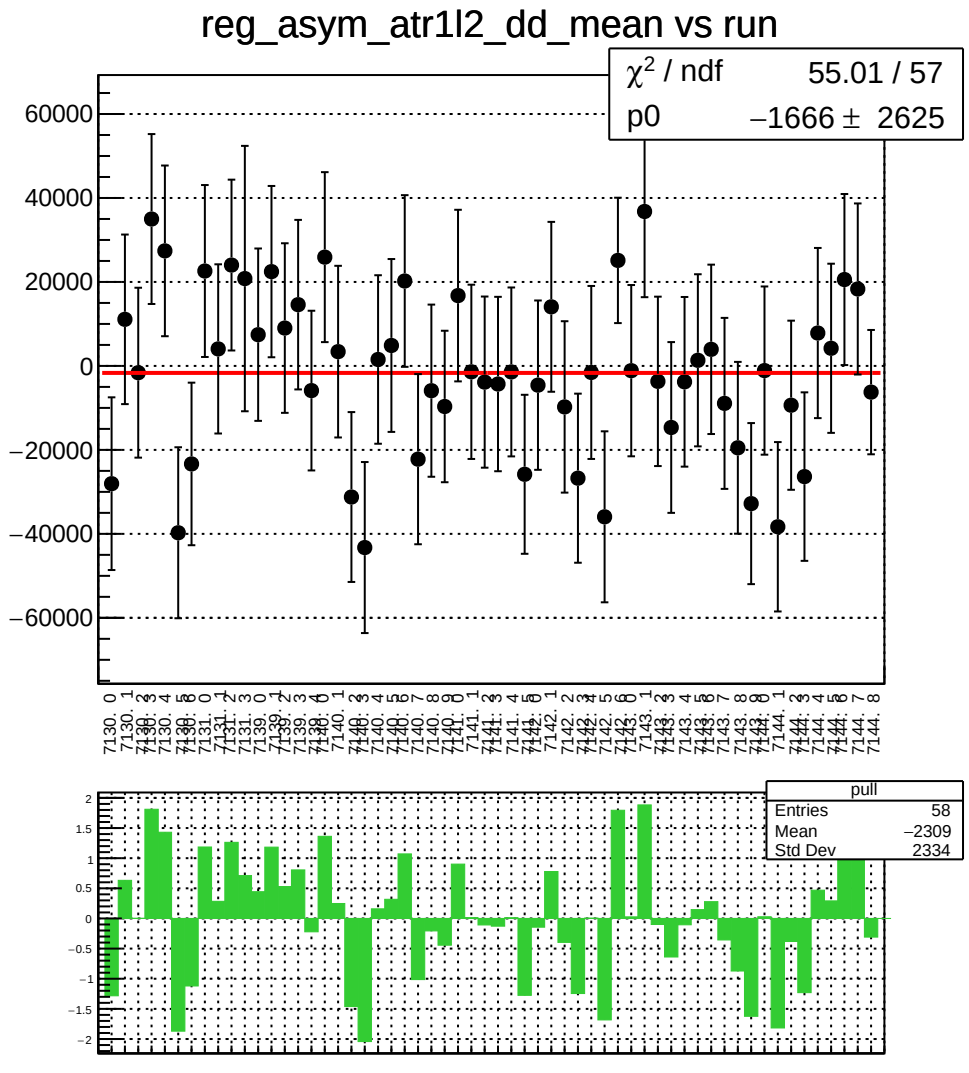

pull1D
Entries 58
Mean −0.01785
Std Dev 1.016

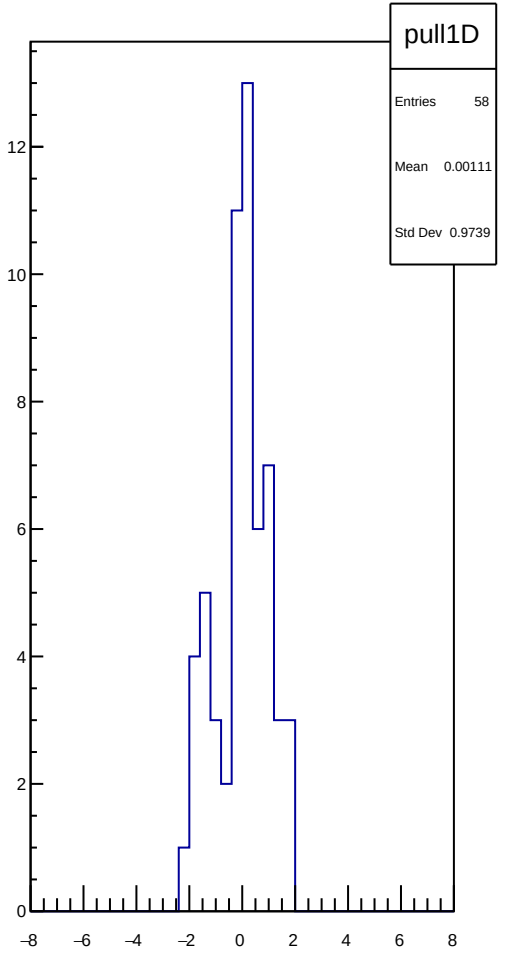

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 6466 / 57
p0 4999 ± 4.764
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

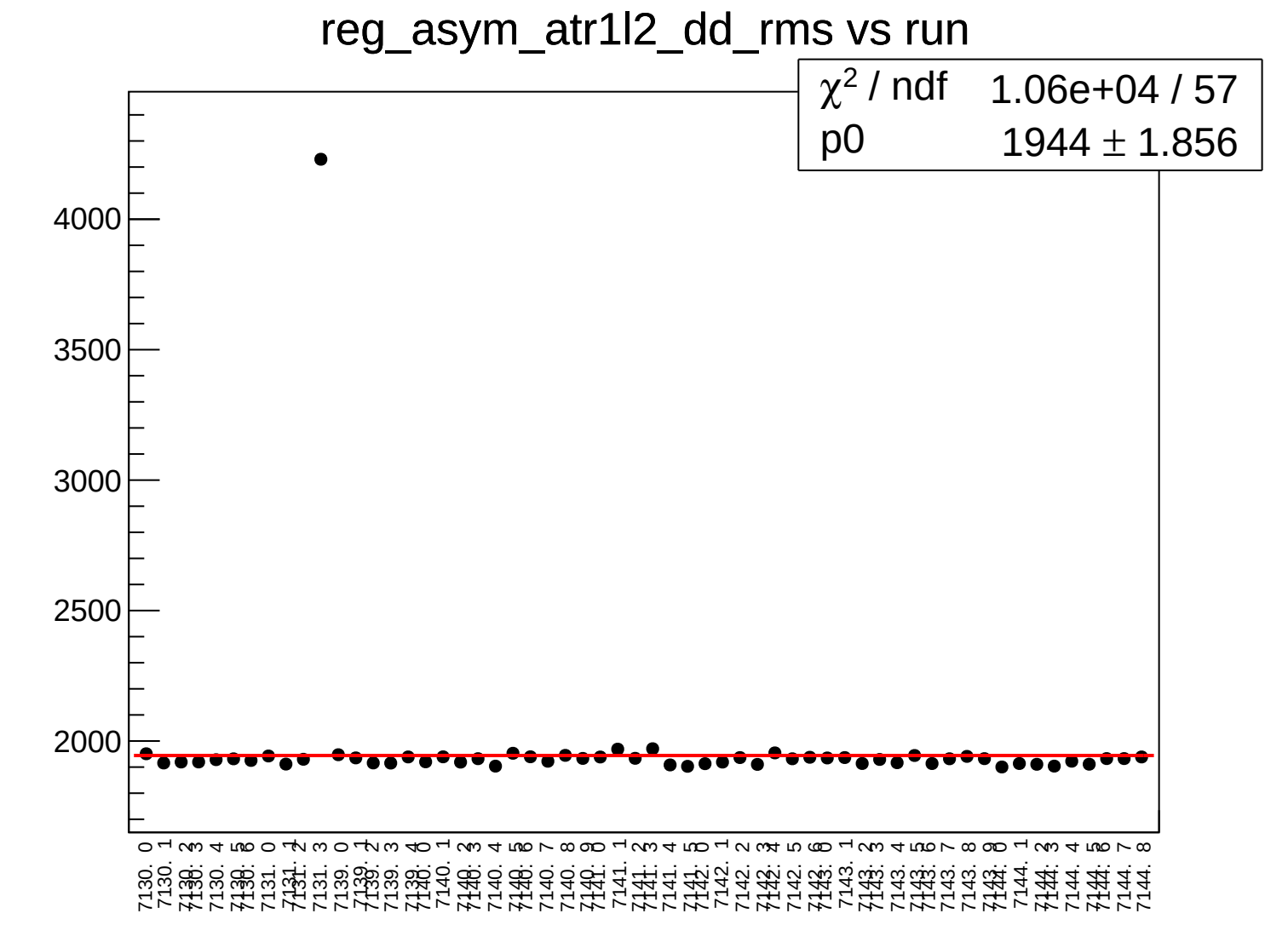

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 60.66 / 57
p0 −2720 ± 7252
pull
Entries 58
Mean −375.2
Std Dev 407.4

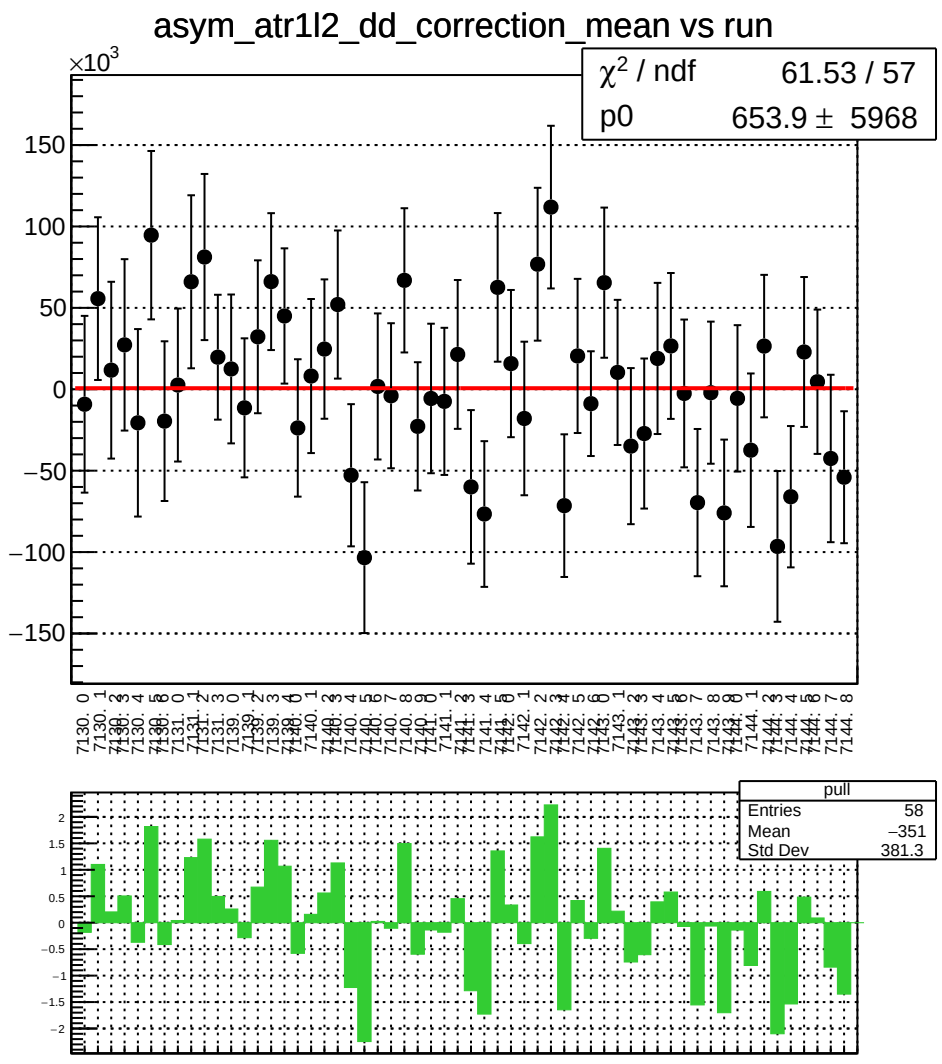

pull1D
Entries 58
Mean 0.01292
Std Dev 1.023

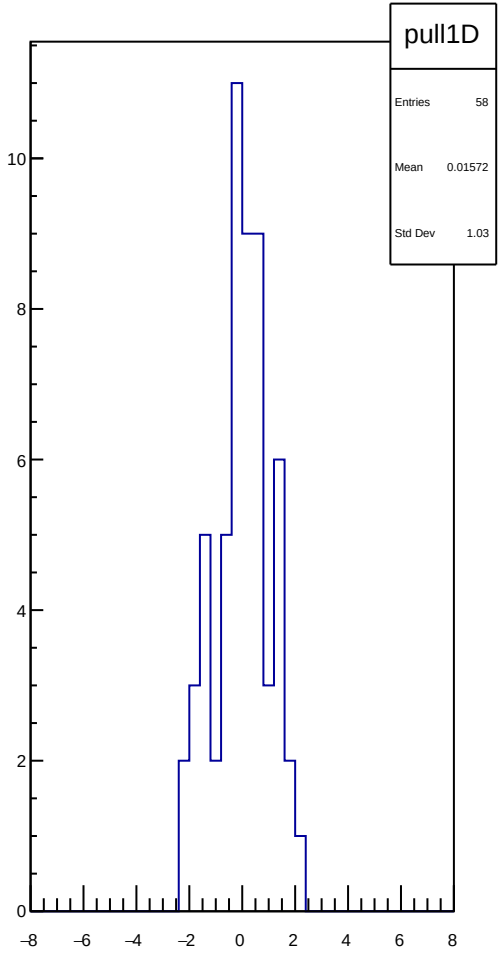

asym_atr1l2_avg_rms vs run
χ² / ndf 6741 / 57
p0 5381 ± 5.128
7000
6500
6000
5500
5000

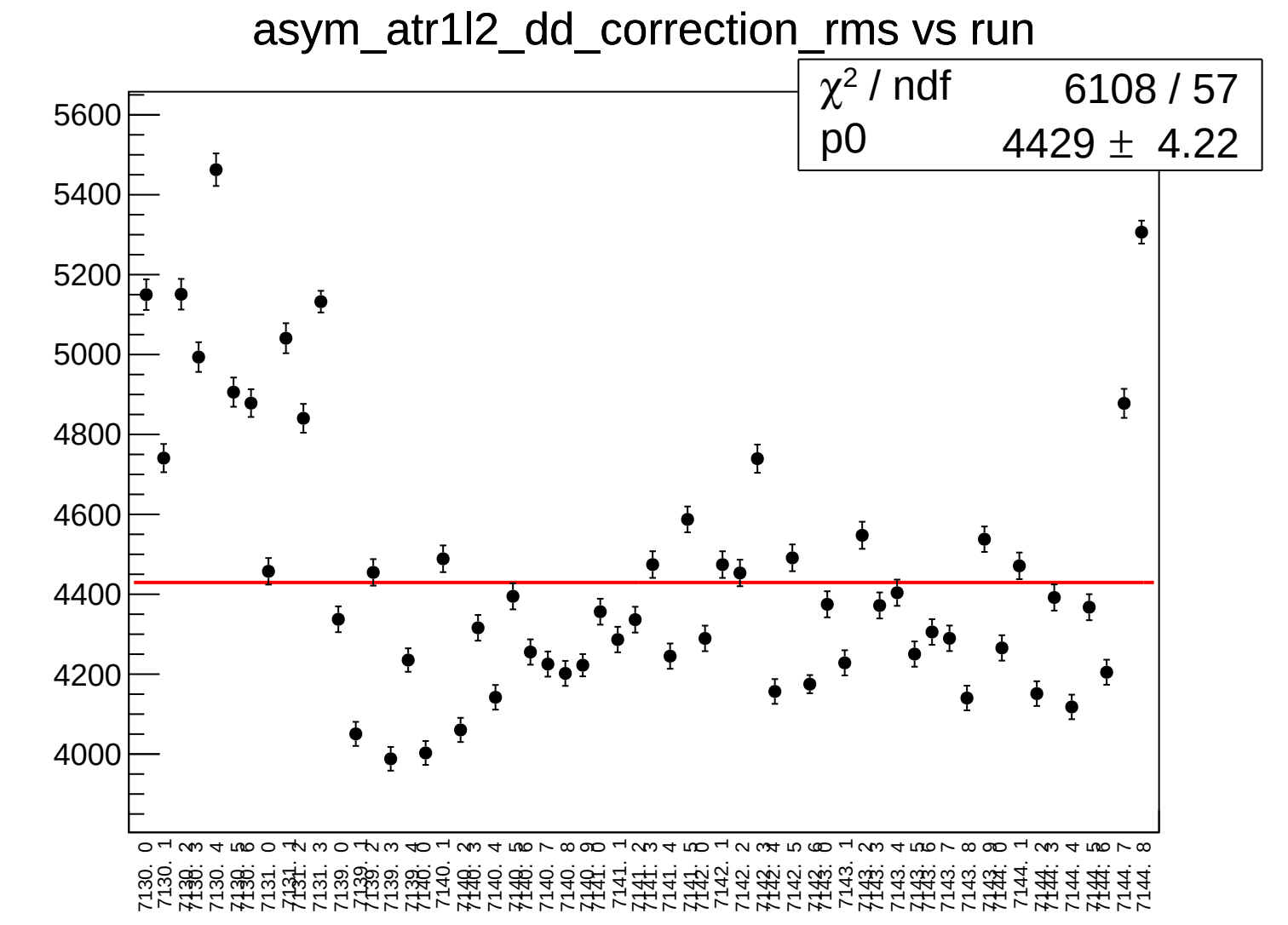

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 55.01 / 57
p0 −1666 ± 2625
pull
Entries 58
Mean −2309
Std Dev 2334

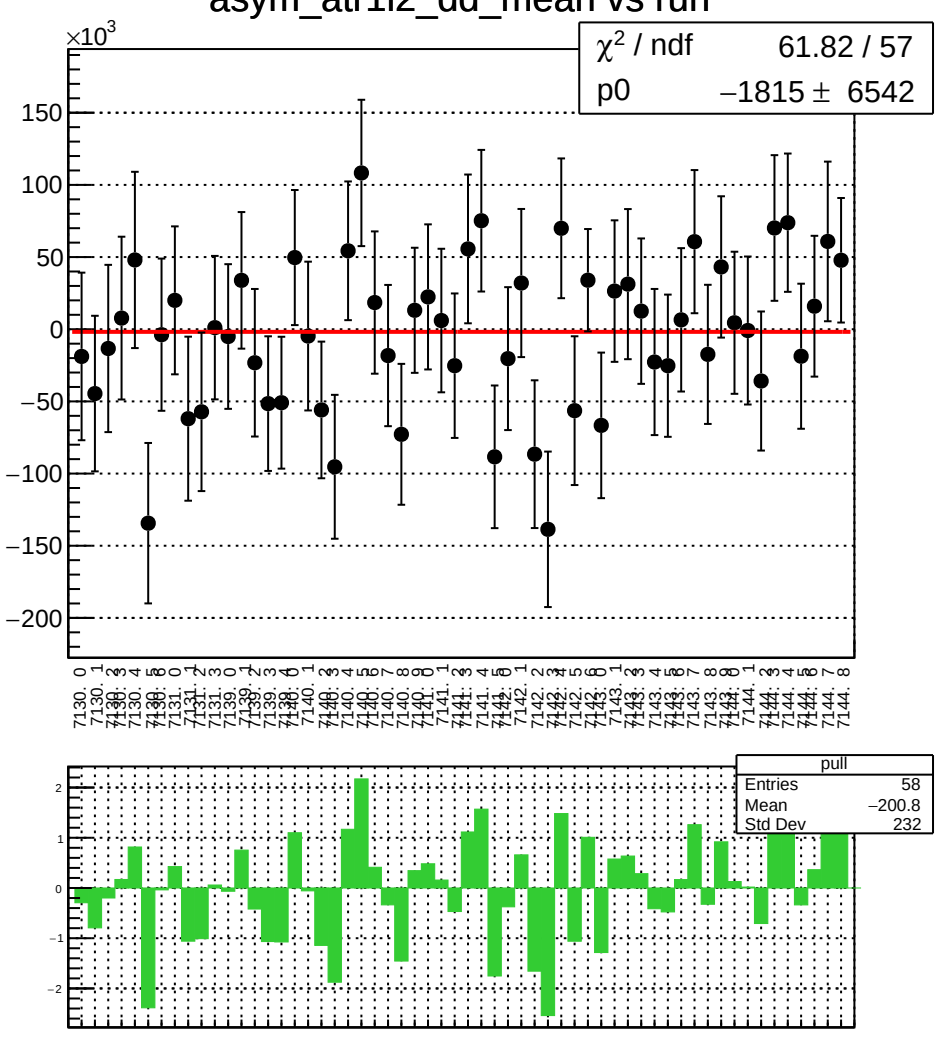

pull1D
Entries 58
Mean 0.00111
Std Dev 0.9739

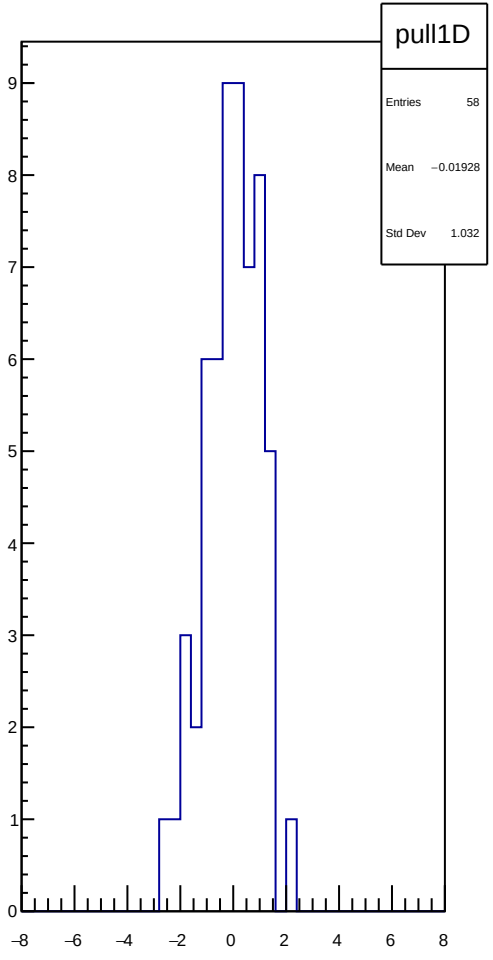

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 1.06e+04 / 57
p0 1944 ± 1.856
4000
3500
3000
2500
2000

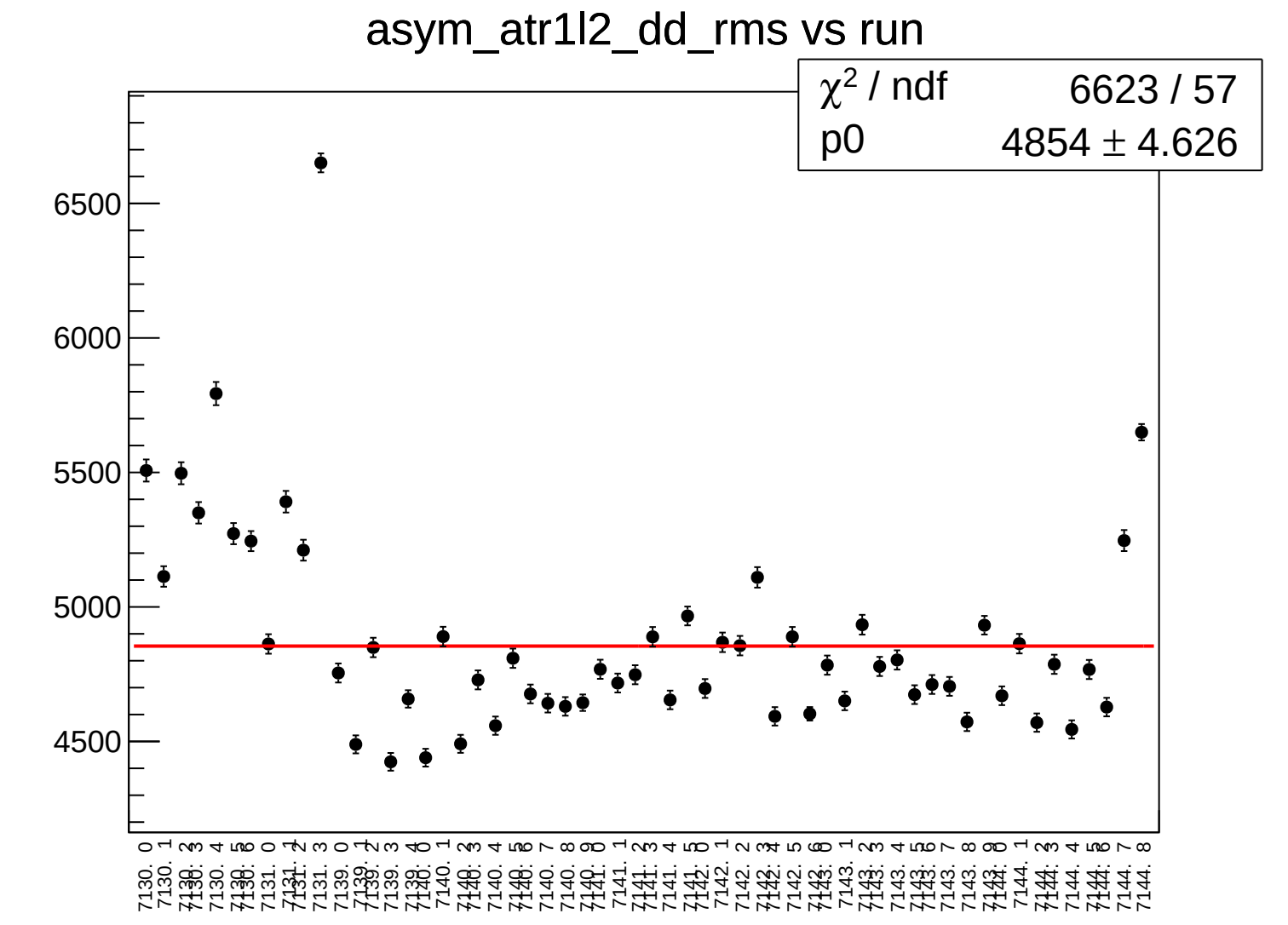

asym_atr1l2_dd_correction_mean vs run
×10^3
χ² / ndf 61.53 / 57
p0 653.9 ± 5968
150
100
50
0
−50
−100
−150
pull
Entries 58
Mean −351
Std Dev 381.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

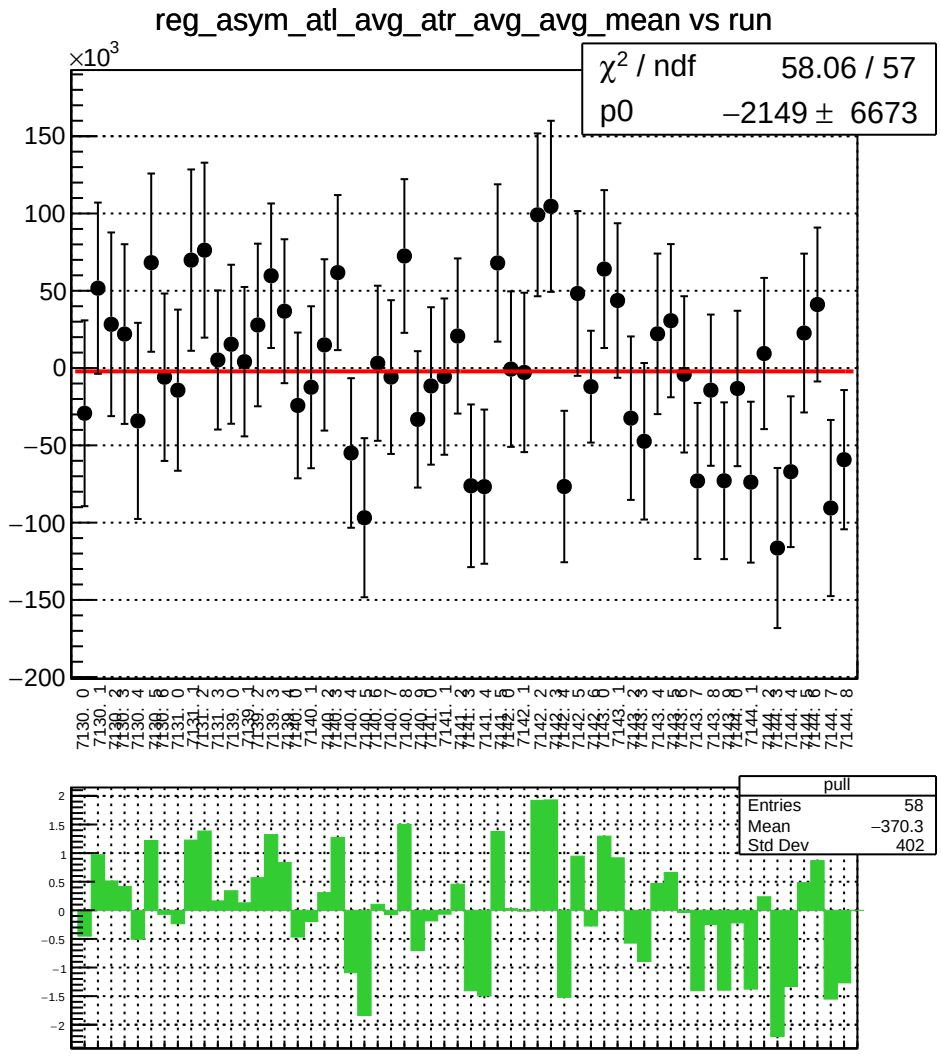

pull1D
Entries 58
Mean 0.01572
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

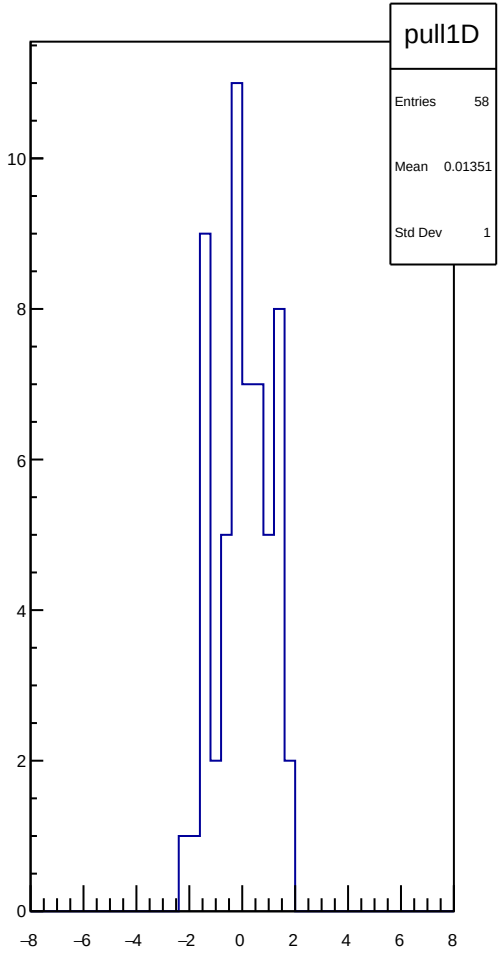

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 6108 / 57
p0 4429 ± 4.22
5600
5400
5200
5000
4800
4600
4400
4200
4000

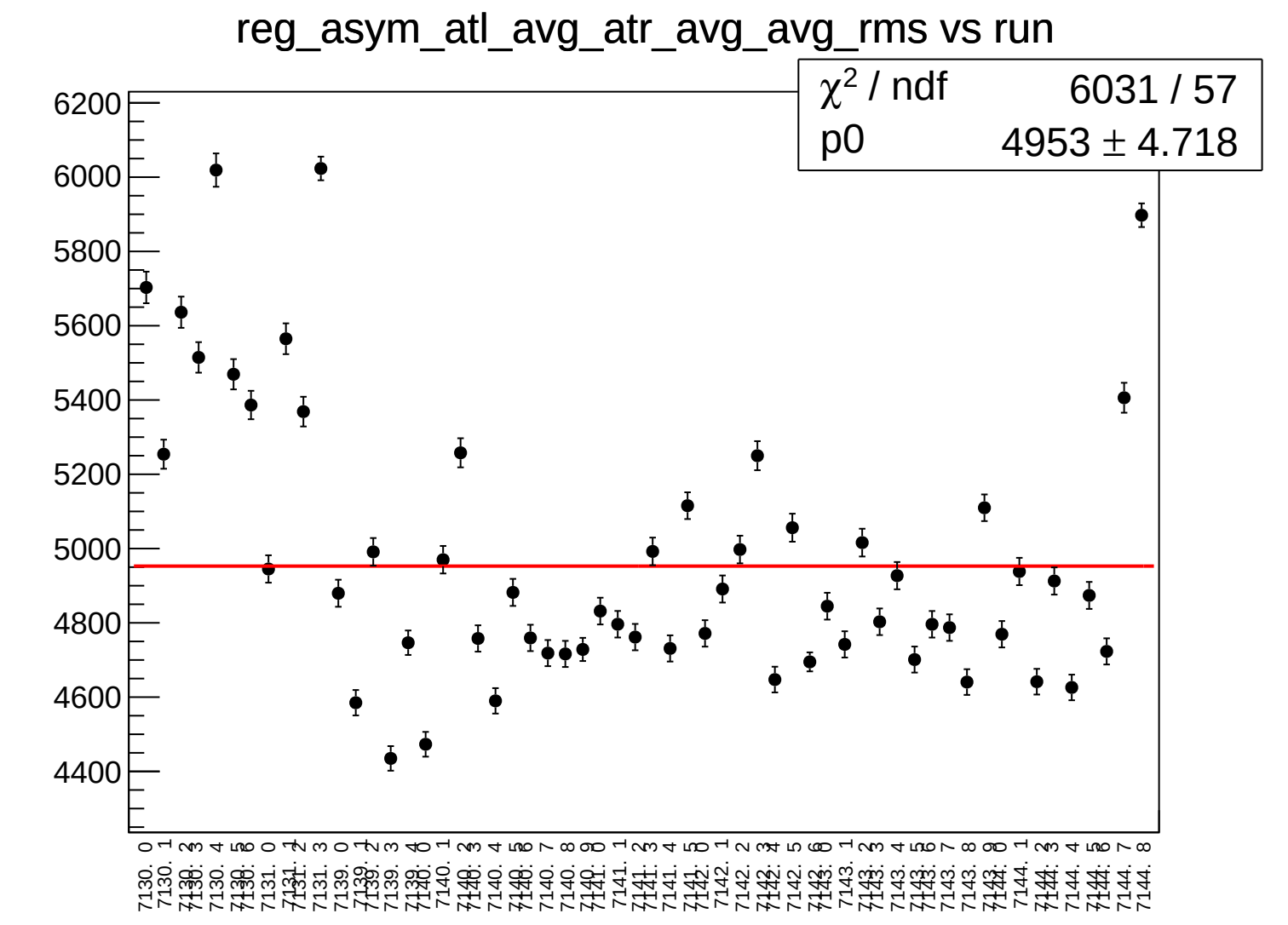

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 61.82 / 57
p0 −1815 ± 6542
150
100
50
0
−50
−100
−150
−200
pull
Entries 58
Mean −200.8
Std Dev 232
2
1
0
−1
−2

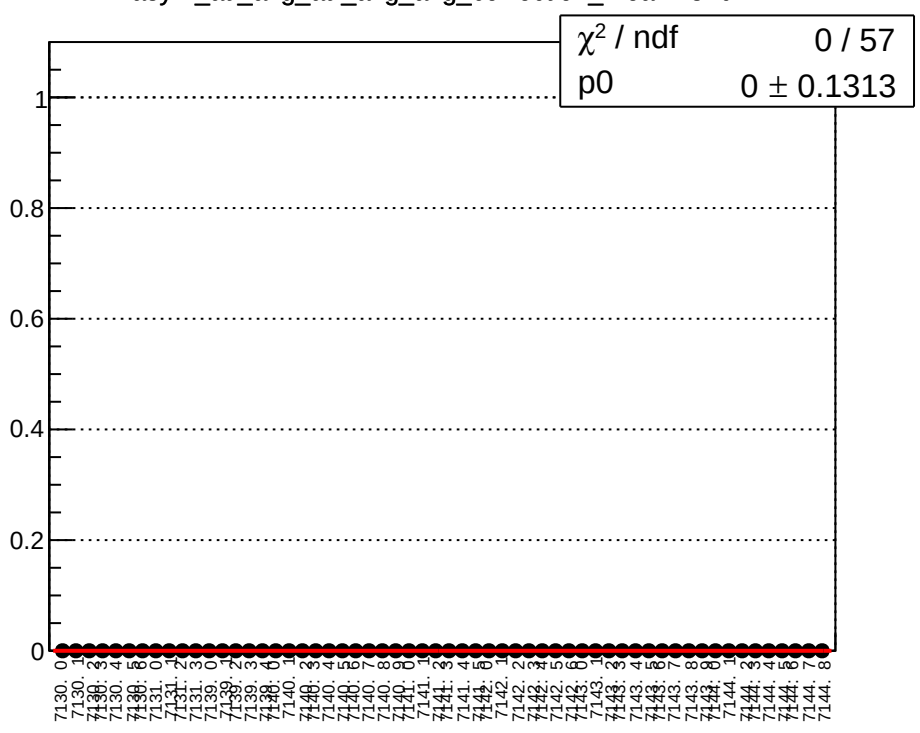

pull1D
Entries 58
Mean −0.01928
Std Dev 1.032
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

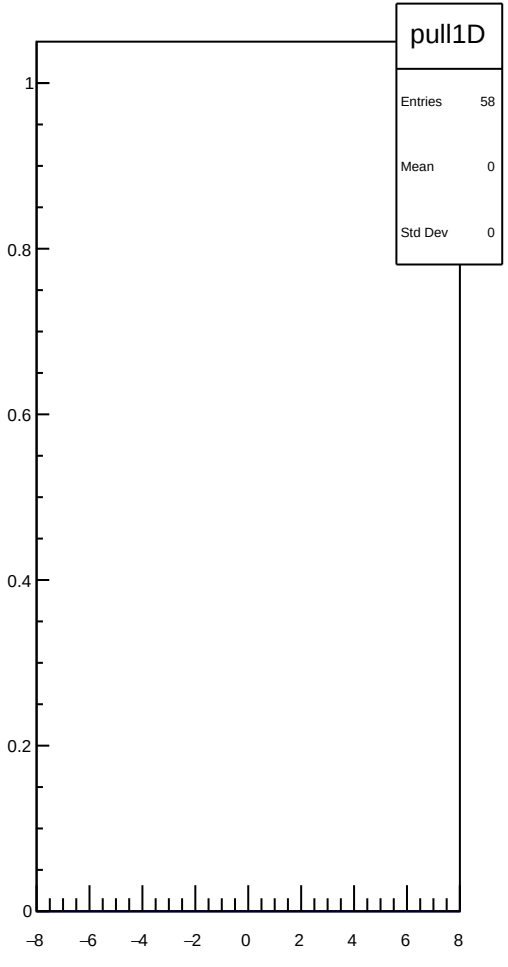

asym_atr1l2_dd_rms vs run
χ² / ndf 6623 / 57
p0 4854 ± 4.626
6500
6000
5500
5000
4500

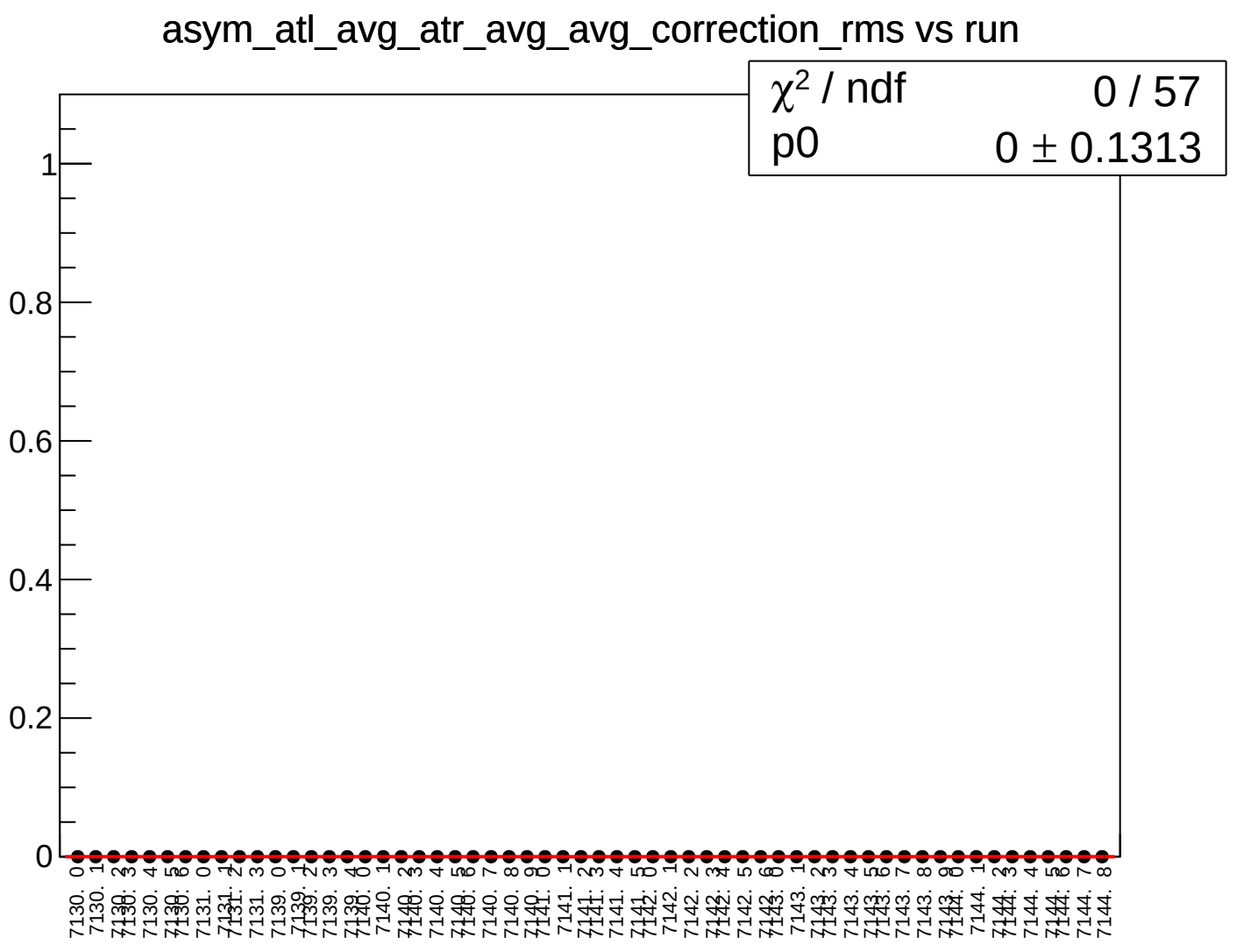

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 58.06 / 57
p0 −2149 ± 6673
150
100
50
0
−50
−100
−150
−200
pull
Entries 58
Mean −370.3
Std Dev 402
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

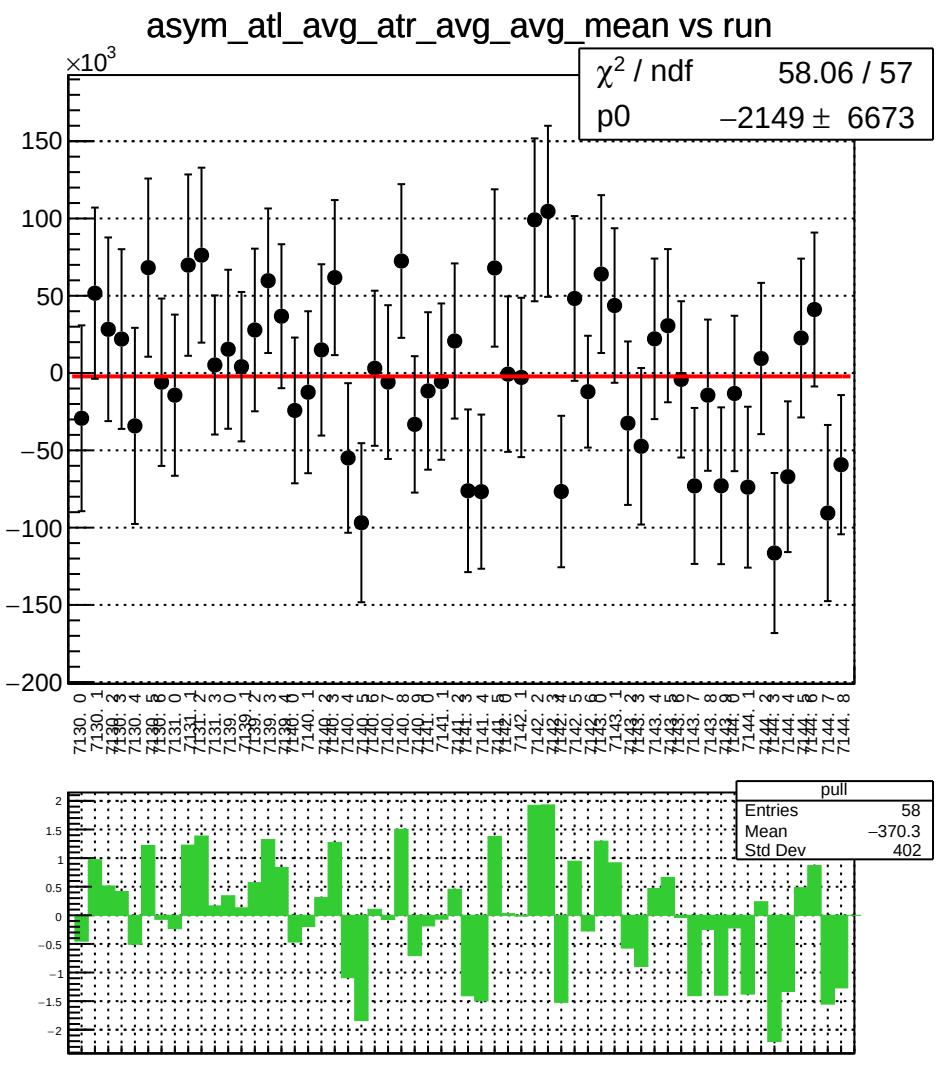

pull1D
Entries 58
Mean 0.01351
Std Dev 1
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

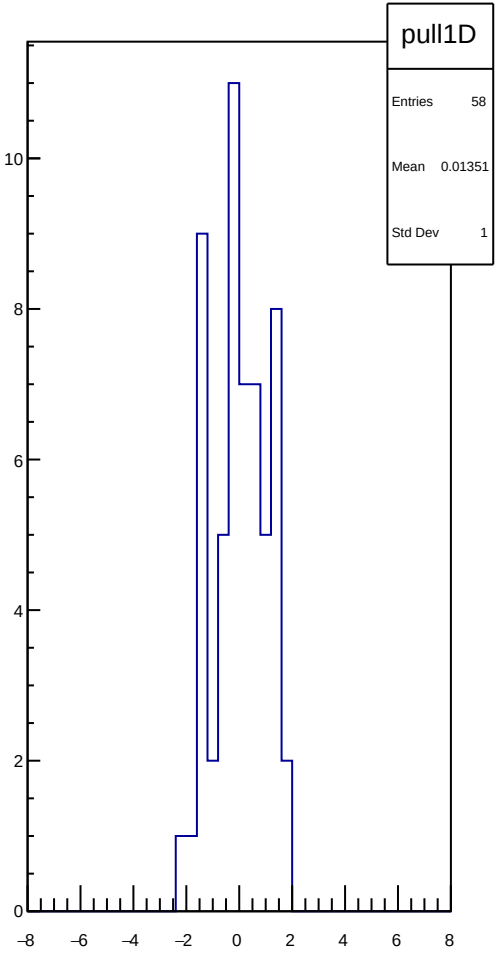

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 6031 / 57
p0 4953 ± 4.718
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

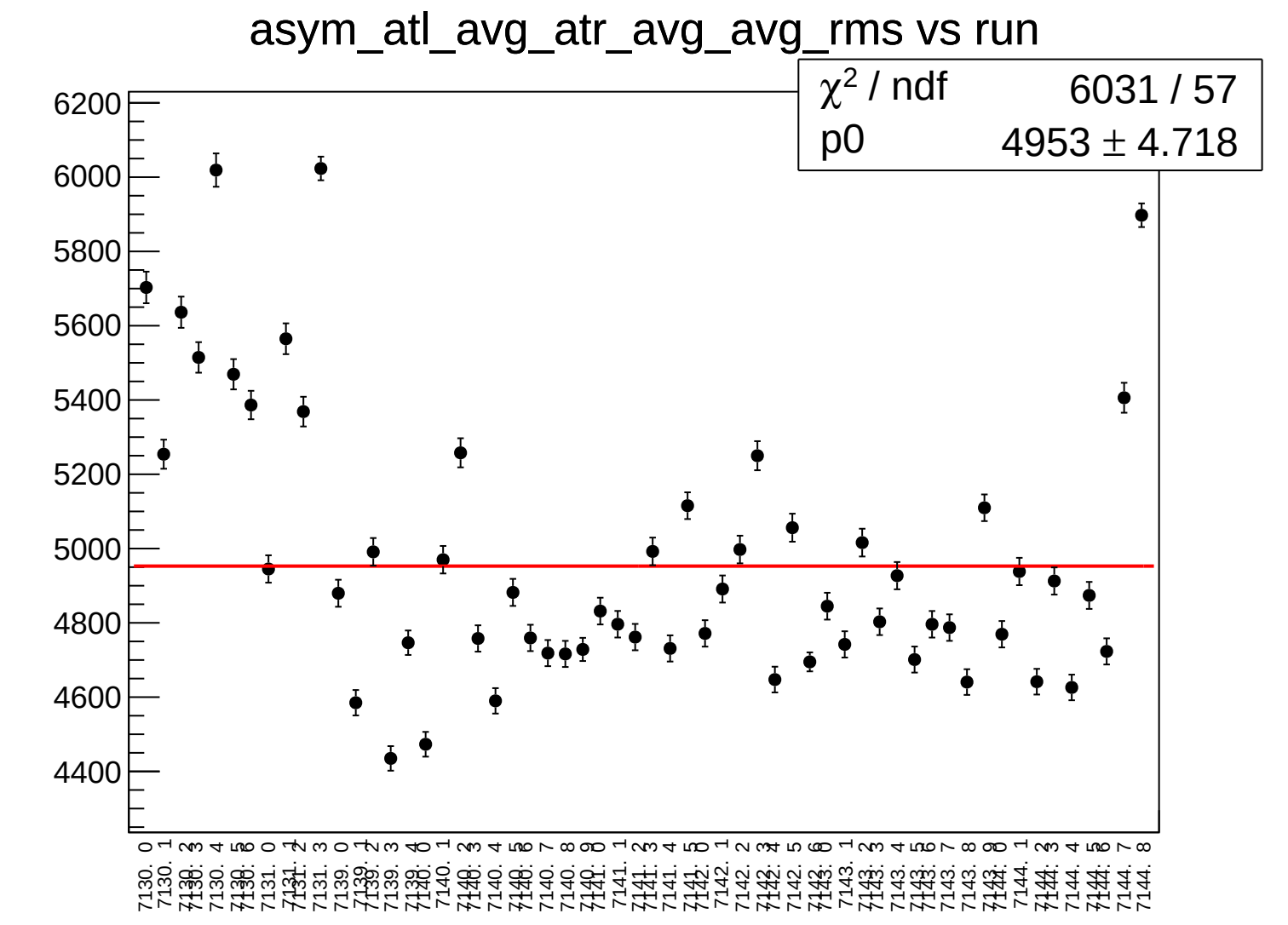

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

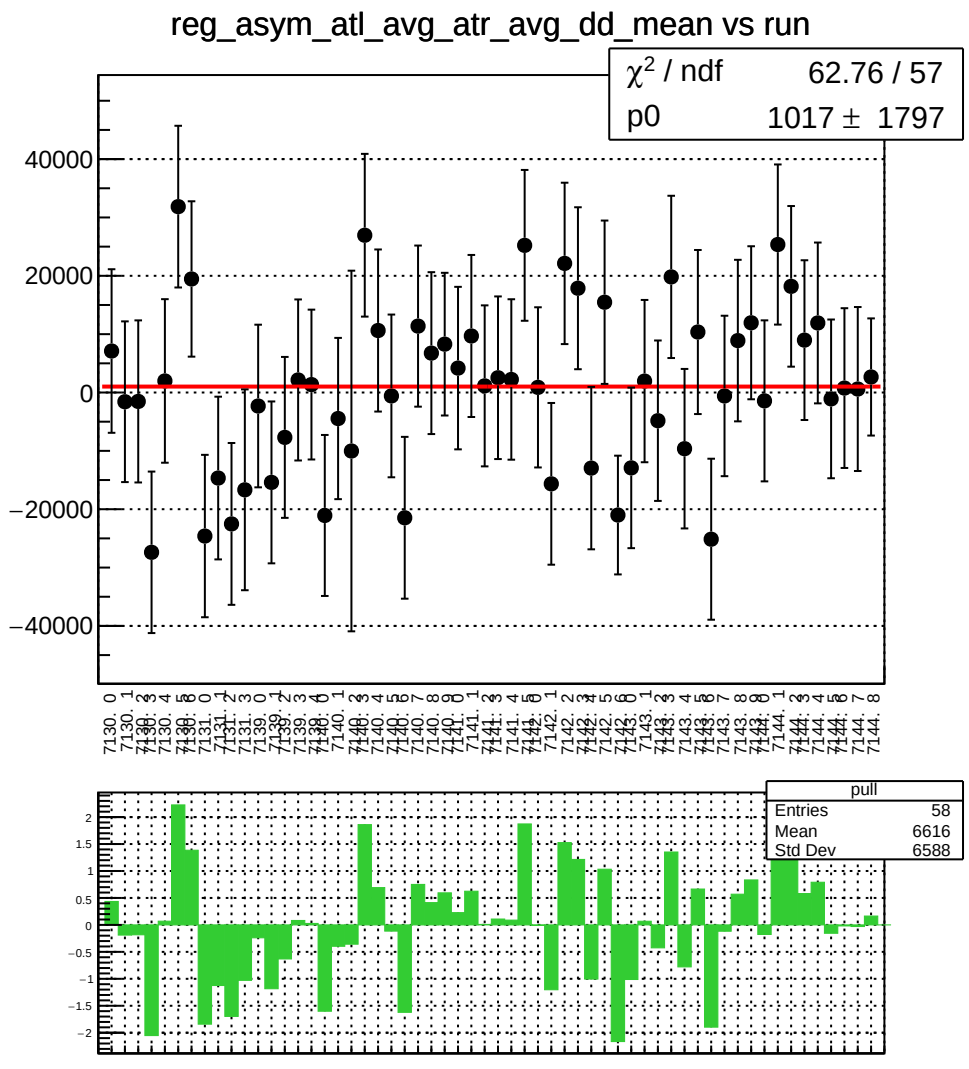

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

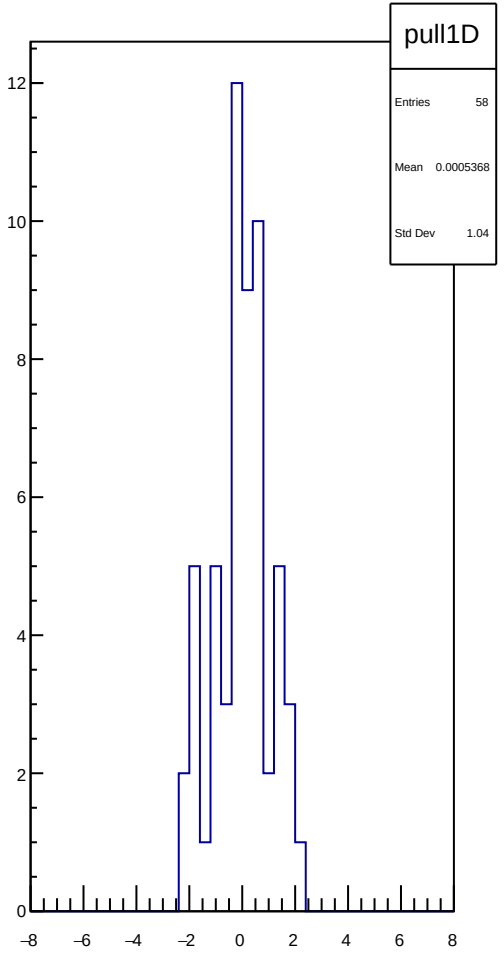

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

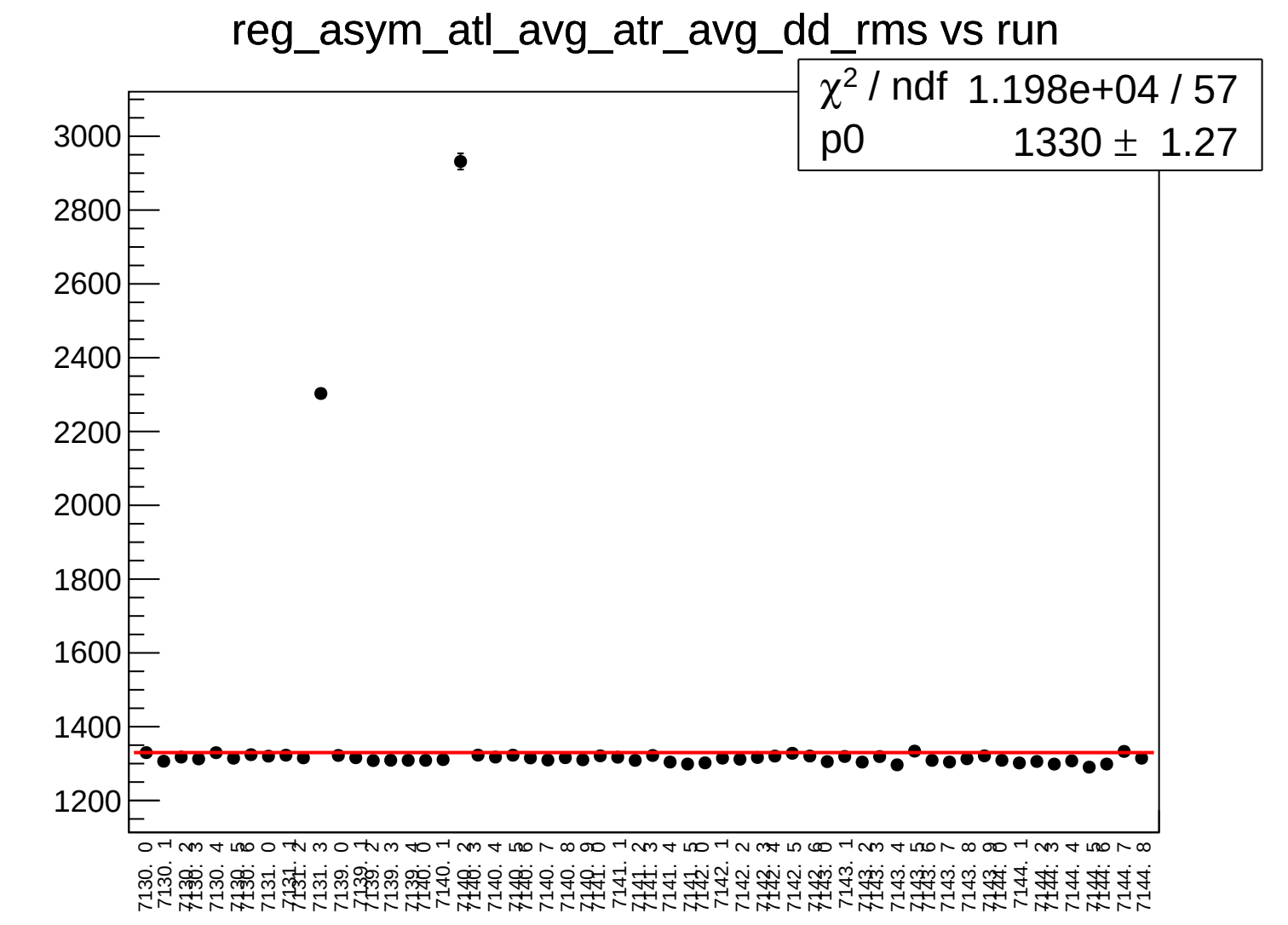

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 58.06 / 57
p0 −2149 ± 6673
pull
Entries 58
Mean −370.3
Std Dev 402

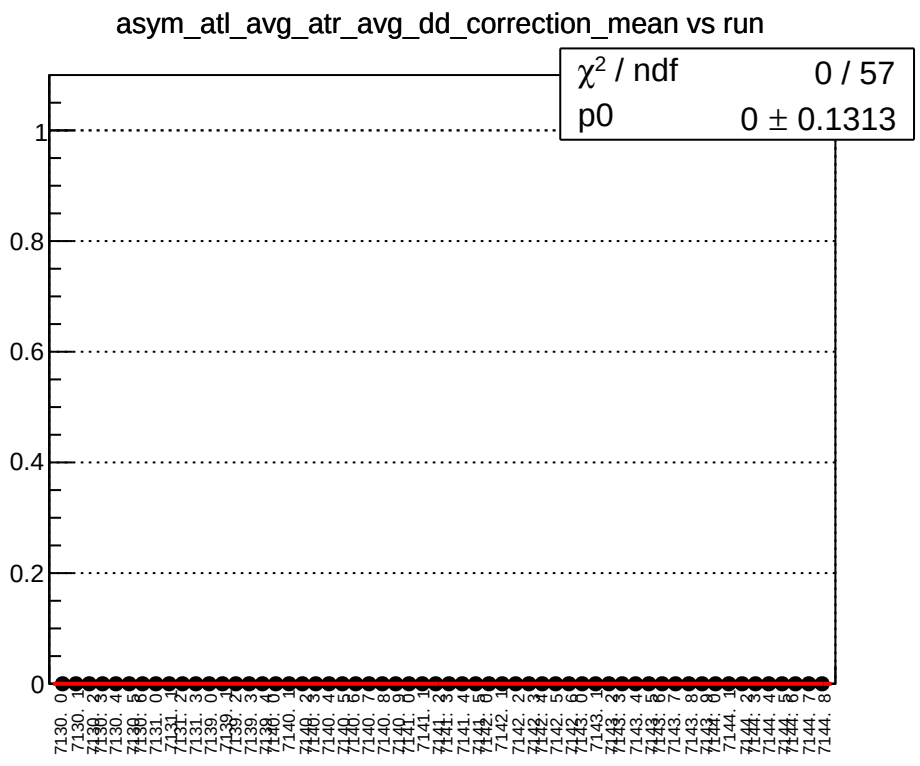

pull1D
Entries 58
Mean 0.01351
Std Dev 1

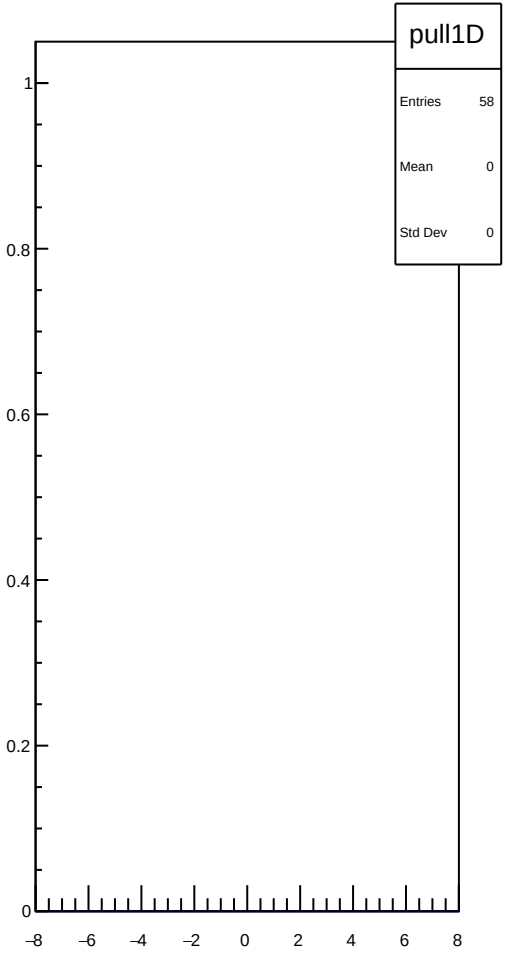

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 6031 / 57
p0 4953 ± 4.718
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

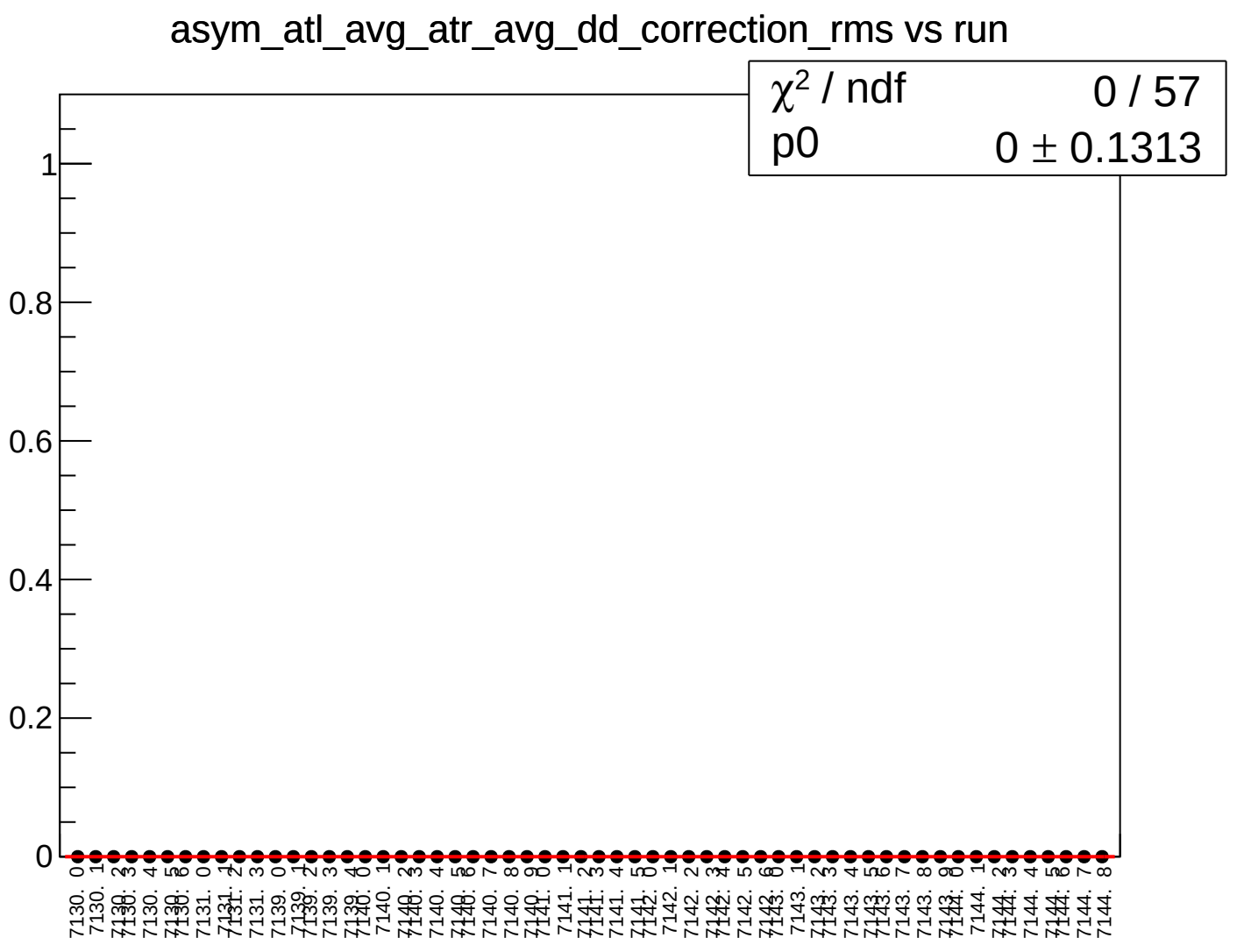

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 62.76 / 57
p0 1017 ± 1797
40000
20000
0
−20000
−40000
pull
Entries 58
Mean 6616
Std Dev 6588
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

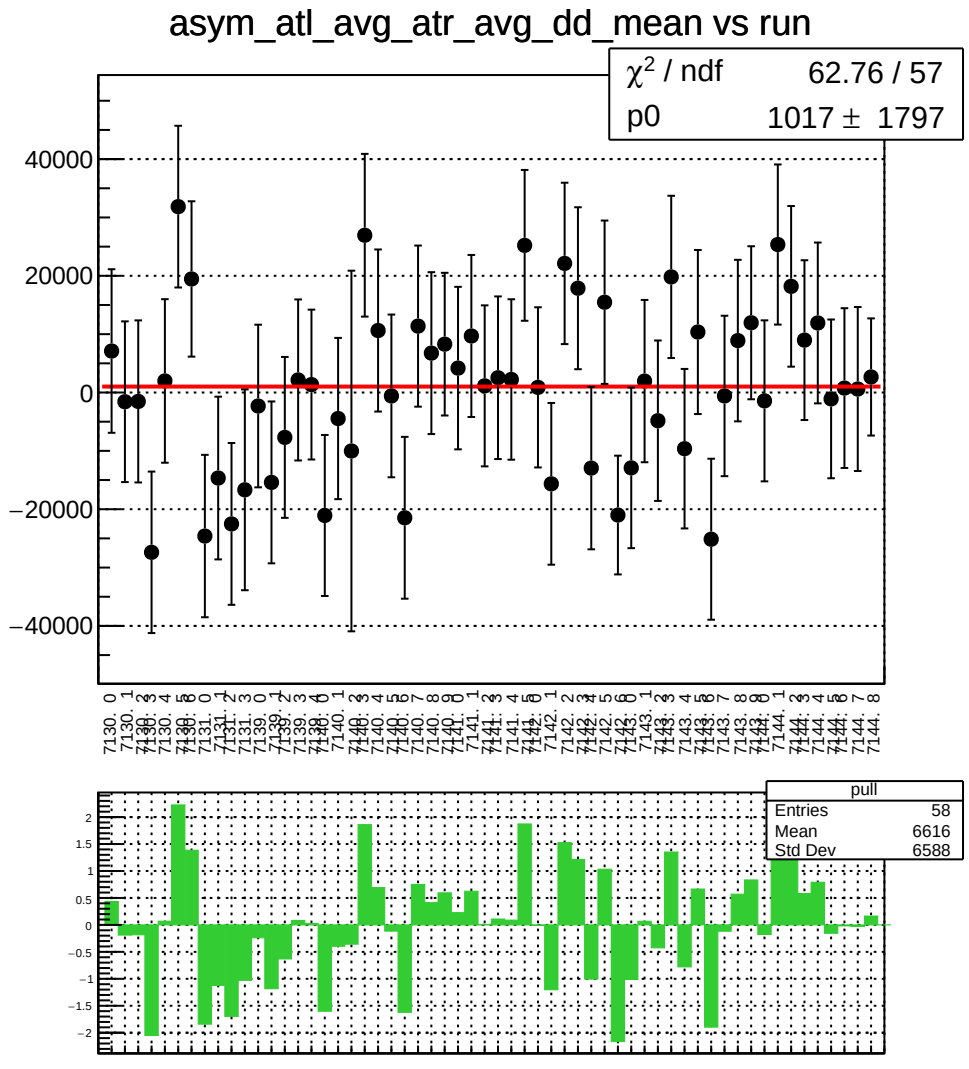

pull1D
Entries 58
Mean 0.0005368
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

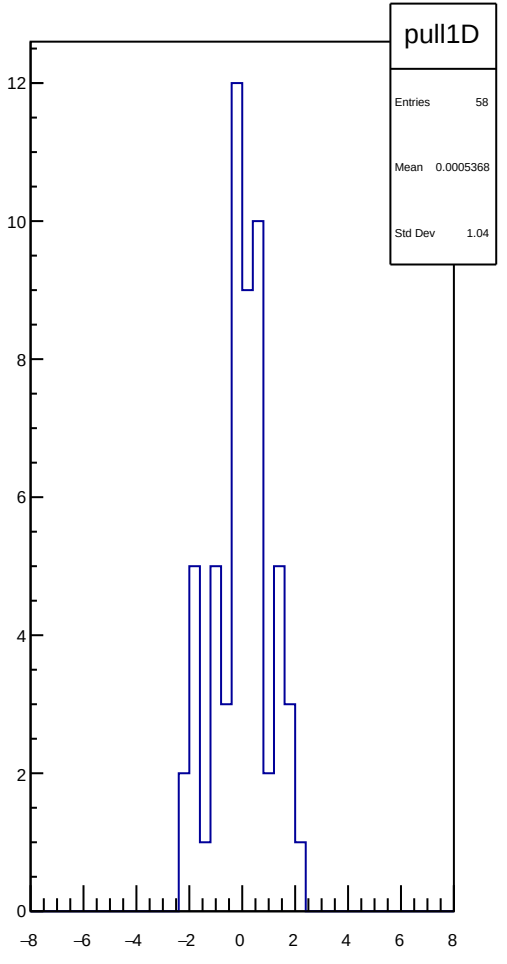

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.198e+04 / 57
p0 1330 ± 1.27
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

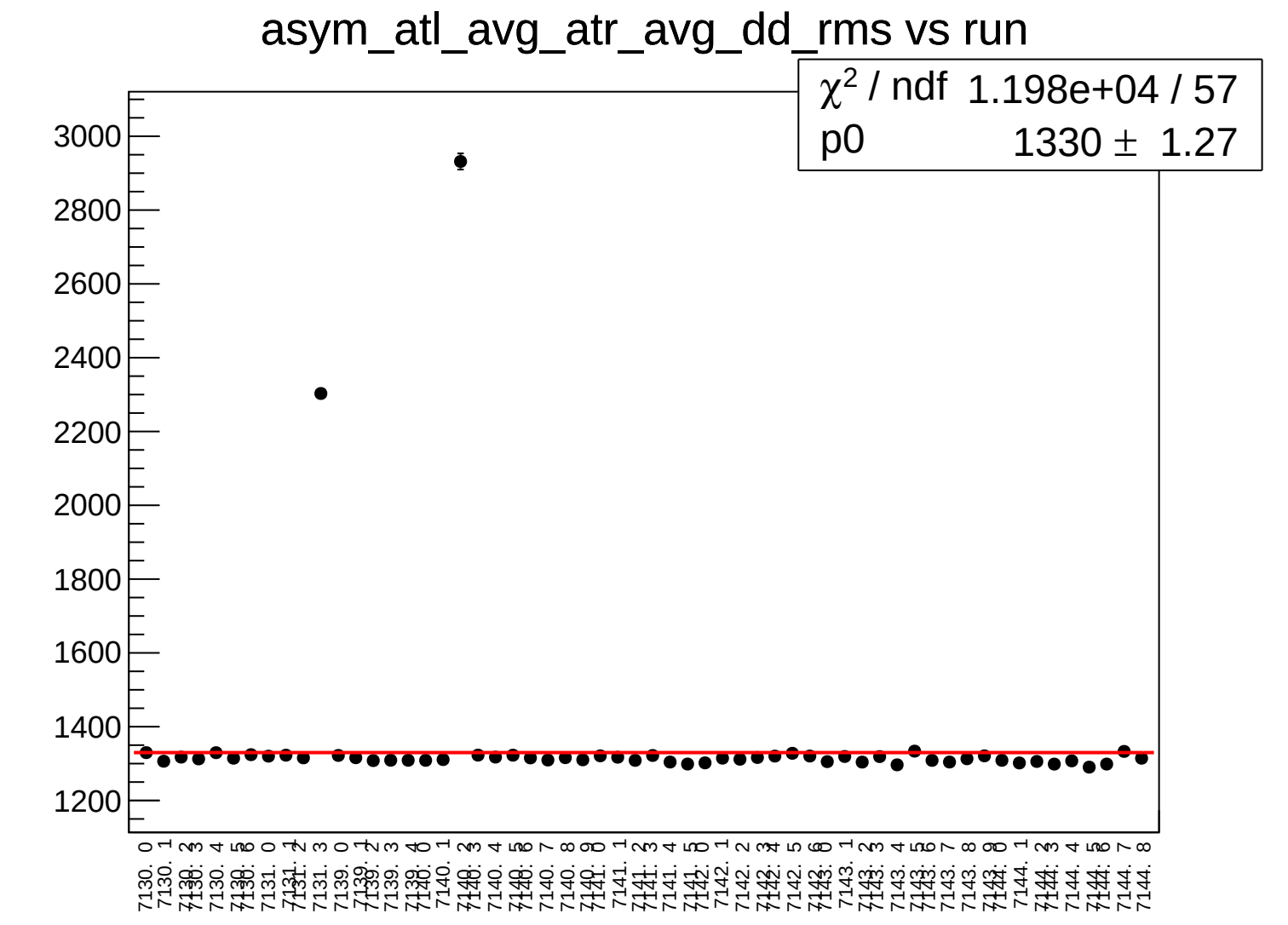

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

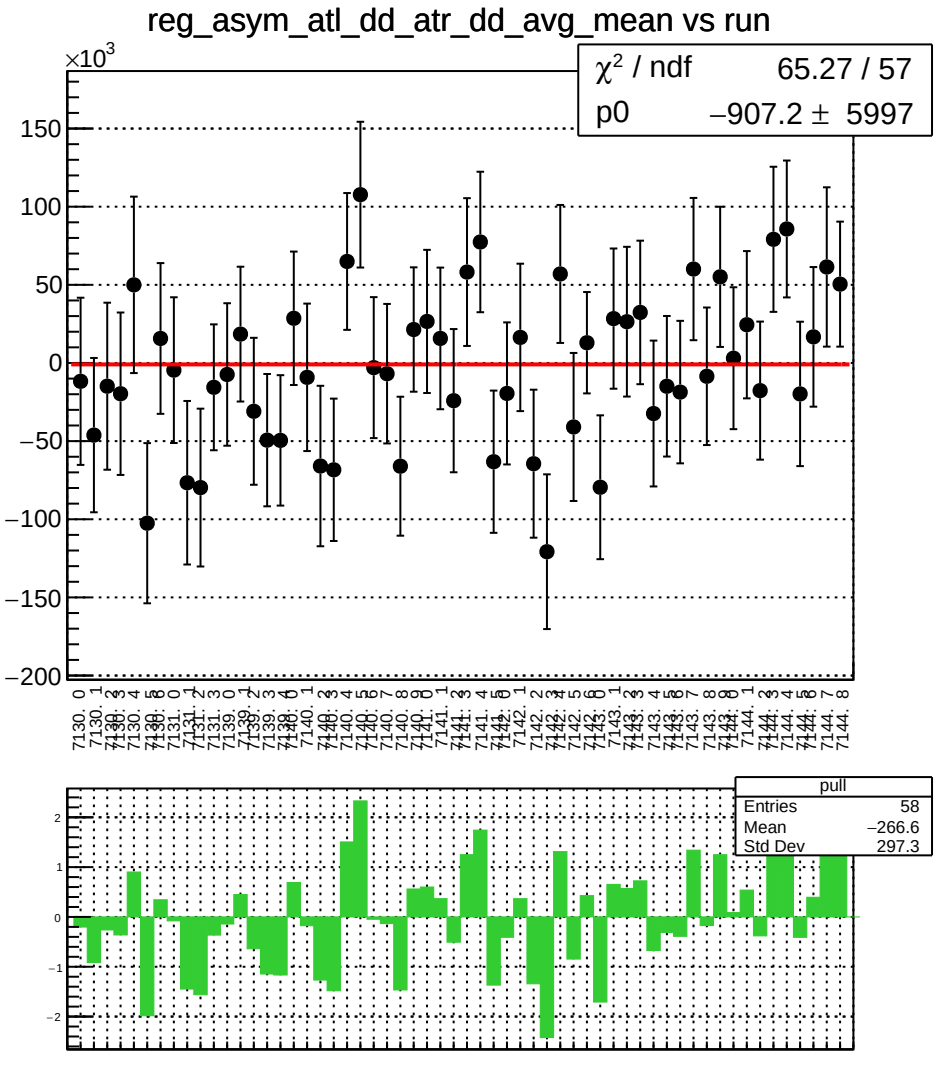

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

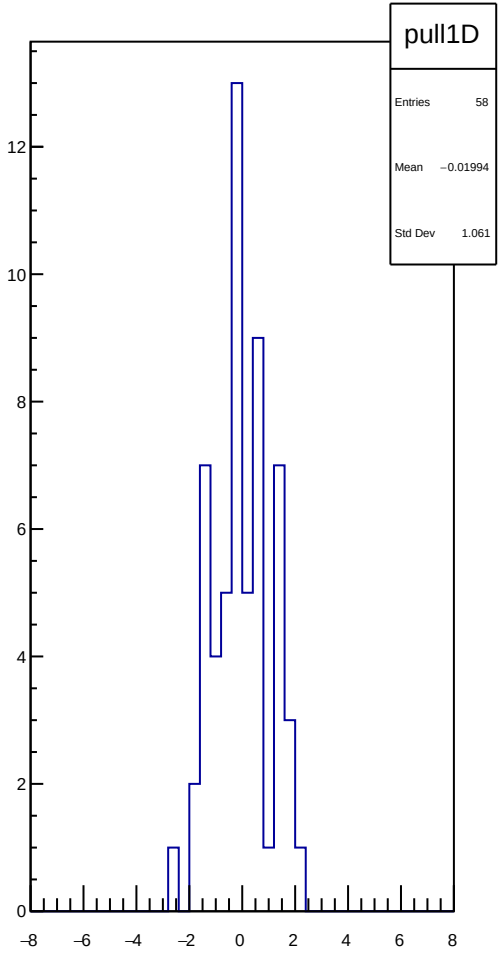

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

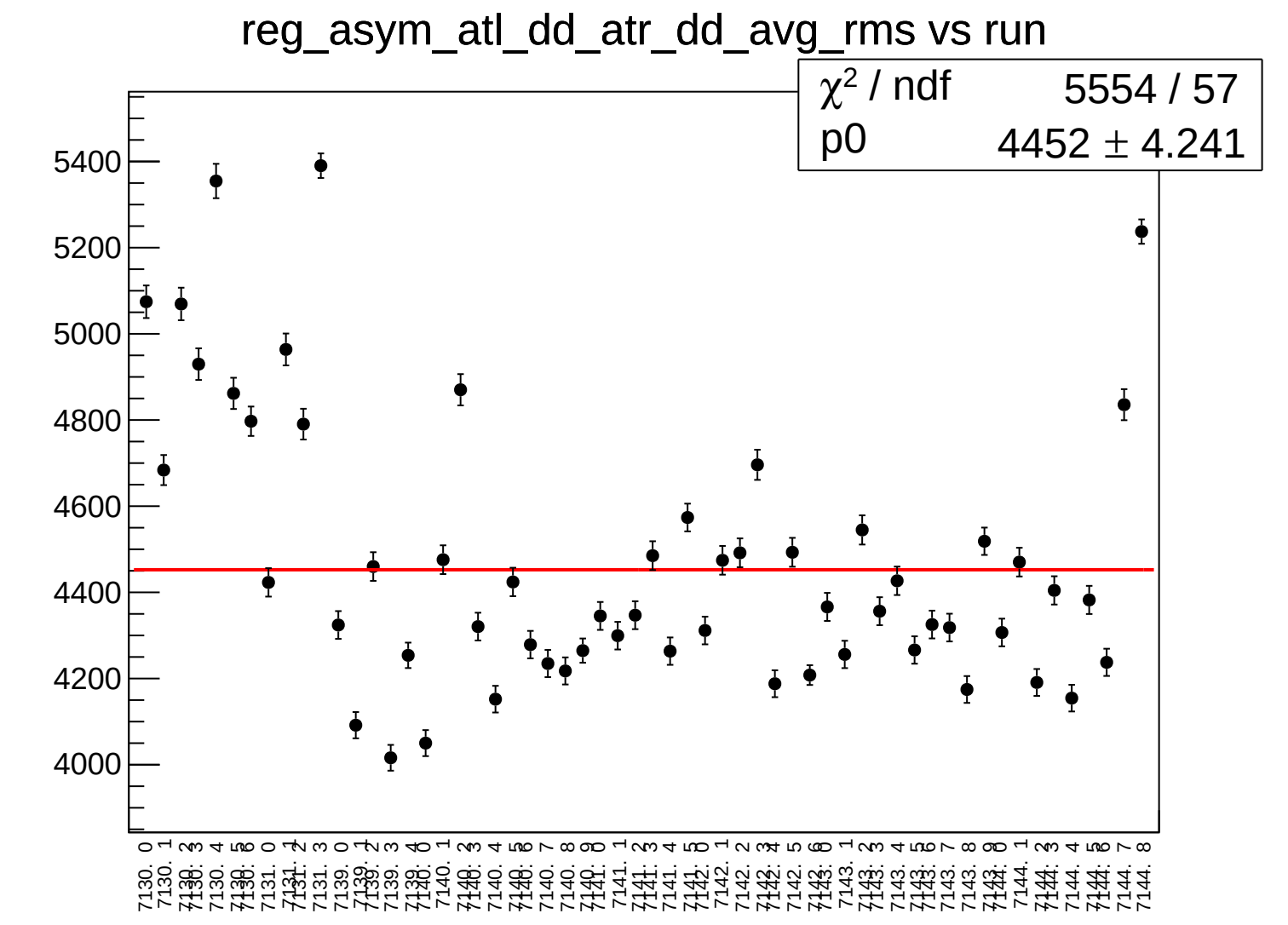

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 62.76 / 57
p0 1017 ± 1797
40000
20000
0
−20000
−40000
pull
Entries 58
Mean 6616
Std Dev 6588
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

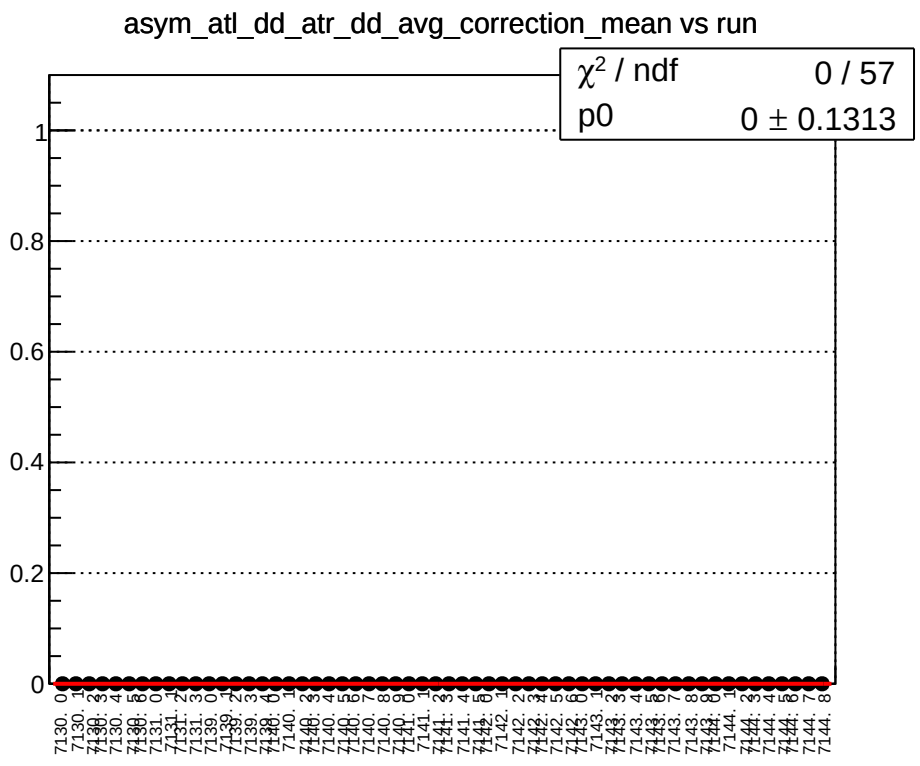

pull1D
Entries 58
Mean 0.0005368
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

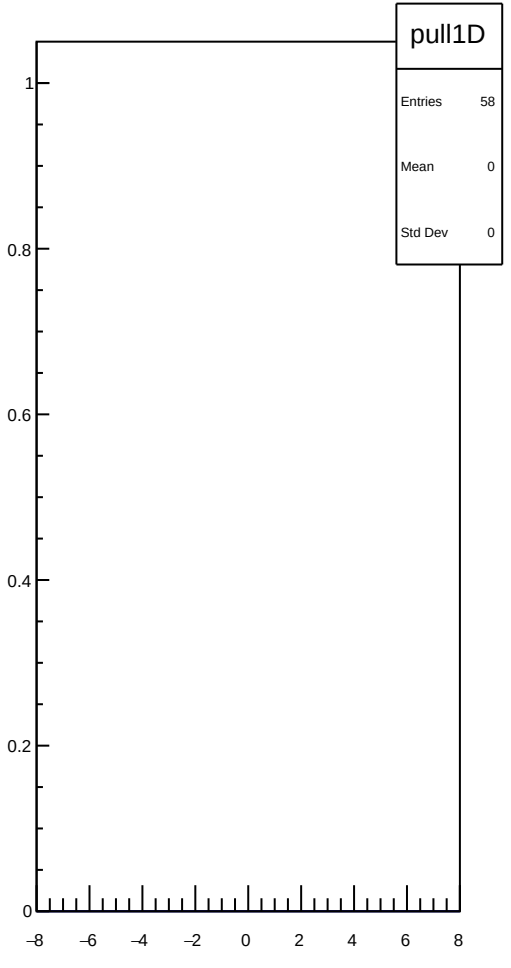

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.198e+04 / 57
p0 1330 ± 1.27
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

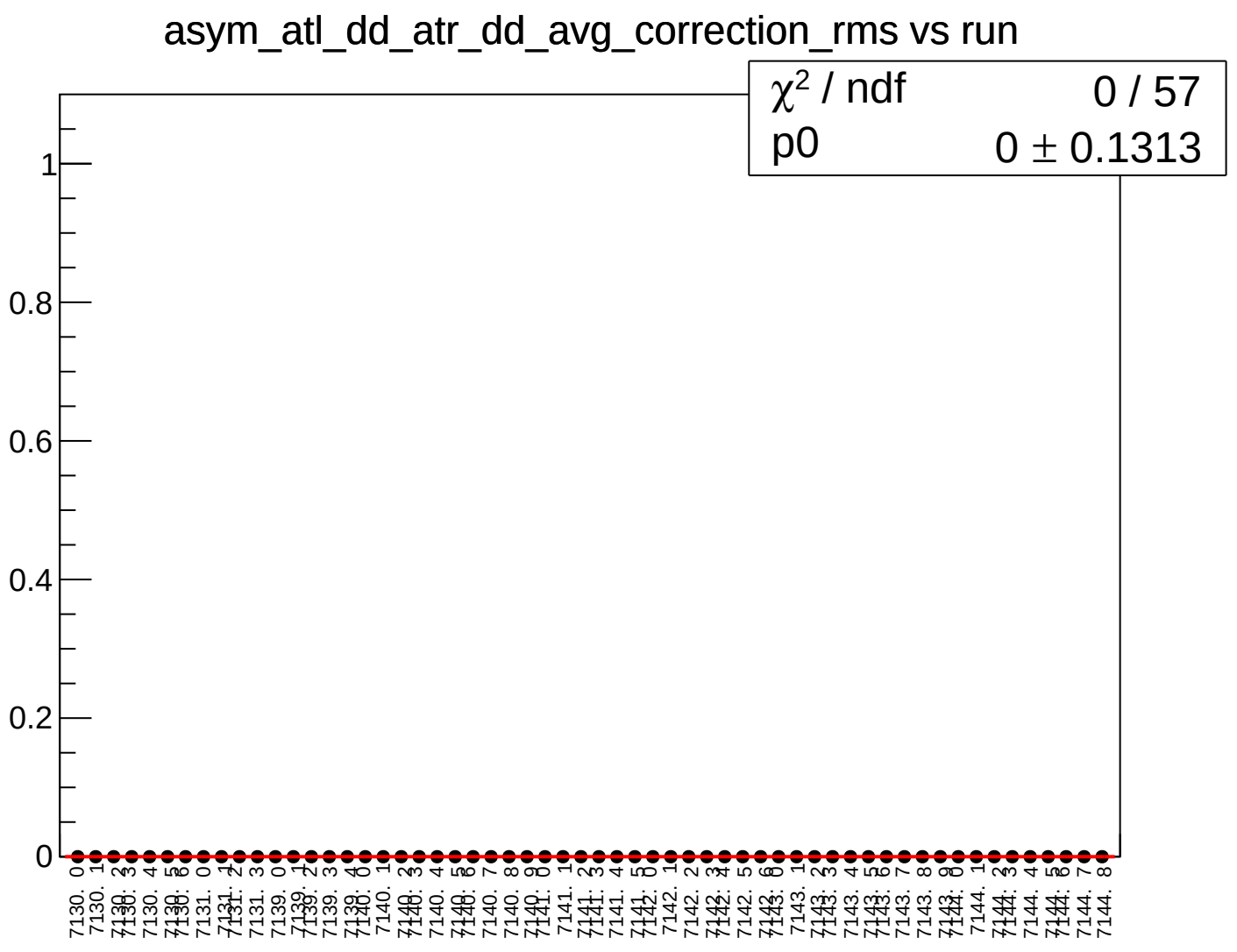

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 65.27 / 57
p0 −907.2 ± 5997
150
100
50
0
−50
−100
−150
−200
pull
Entries 58
Mean −266.6
Std Dev 297.3
2
1
0
−1
−2

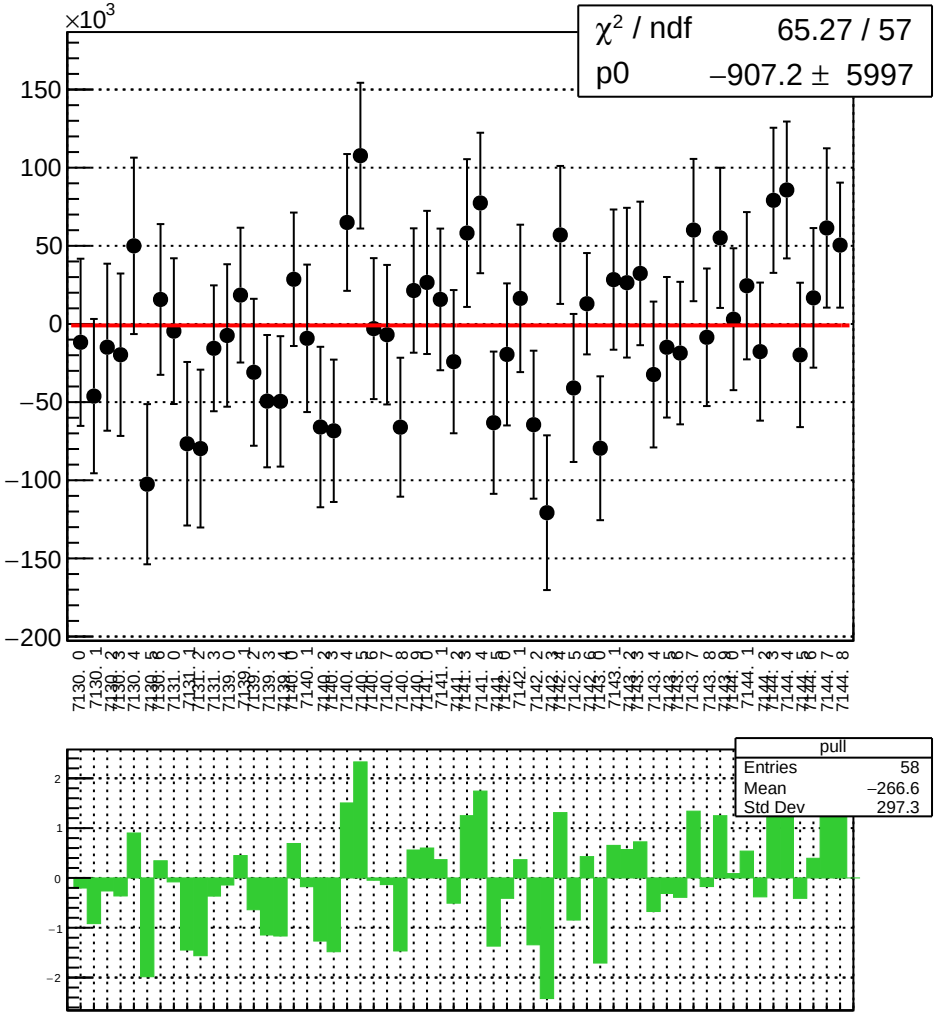

pull1D
Entries 58
Mean −0.01994
Std Dev 1.061
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

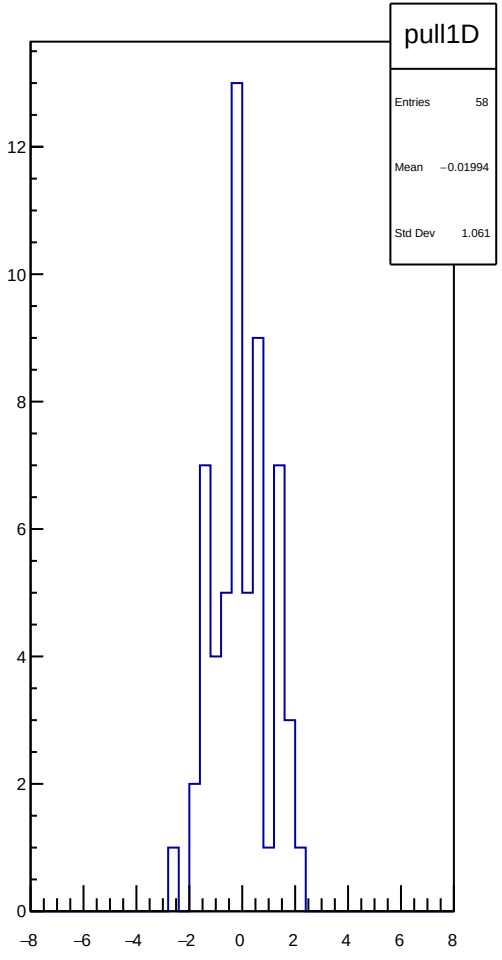

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 5554 / 57
p0 4452 ± 4.241
5400
5200
5000
4800
4600
4400
4200
4000

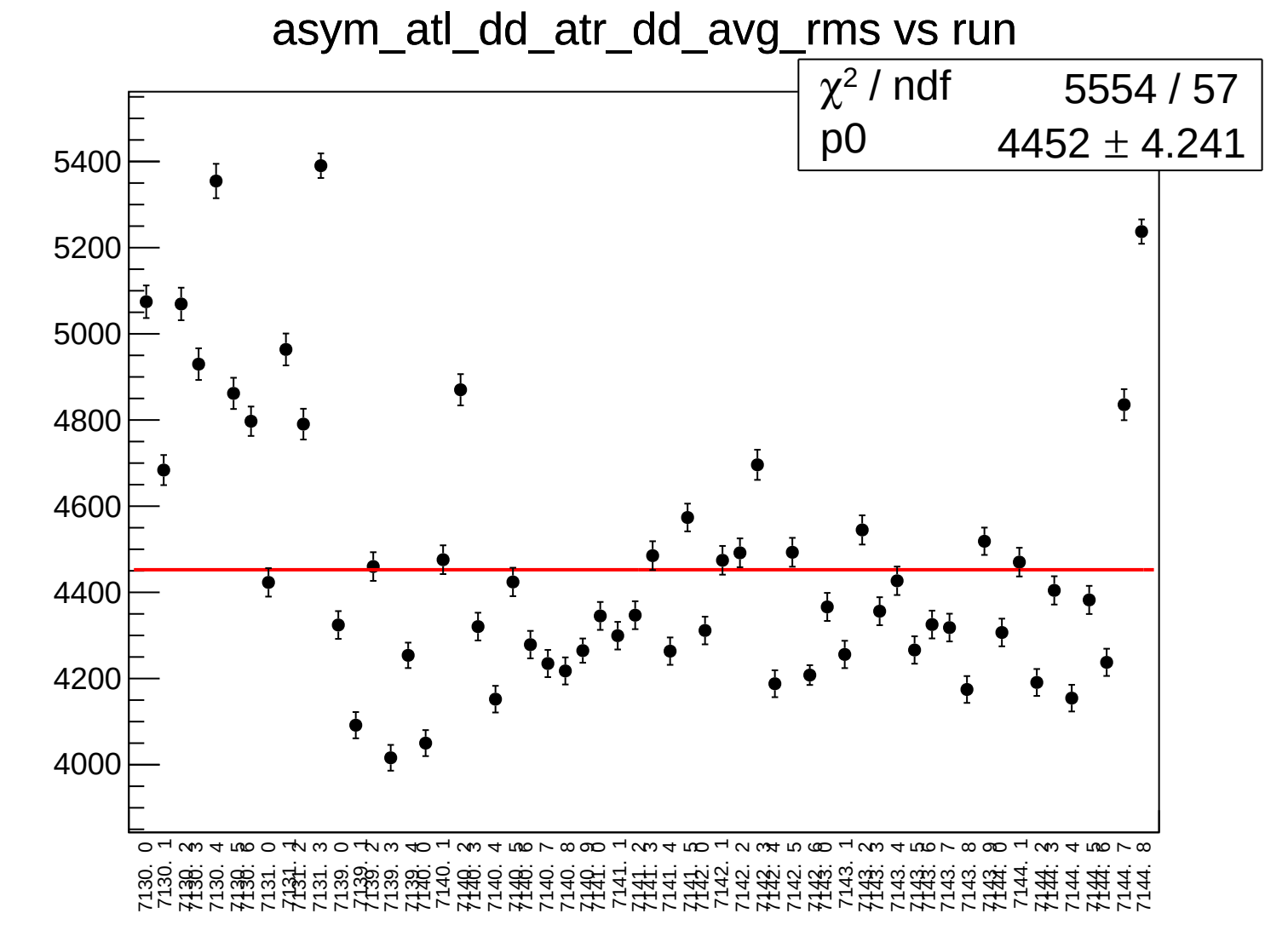

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

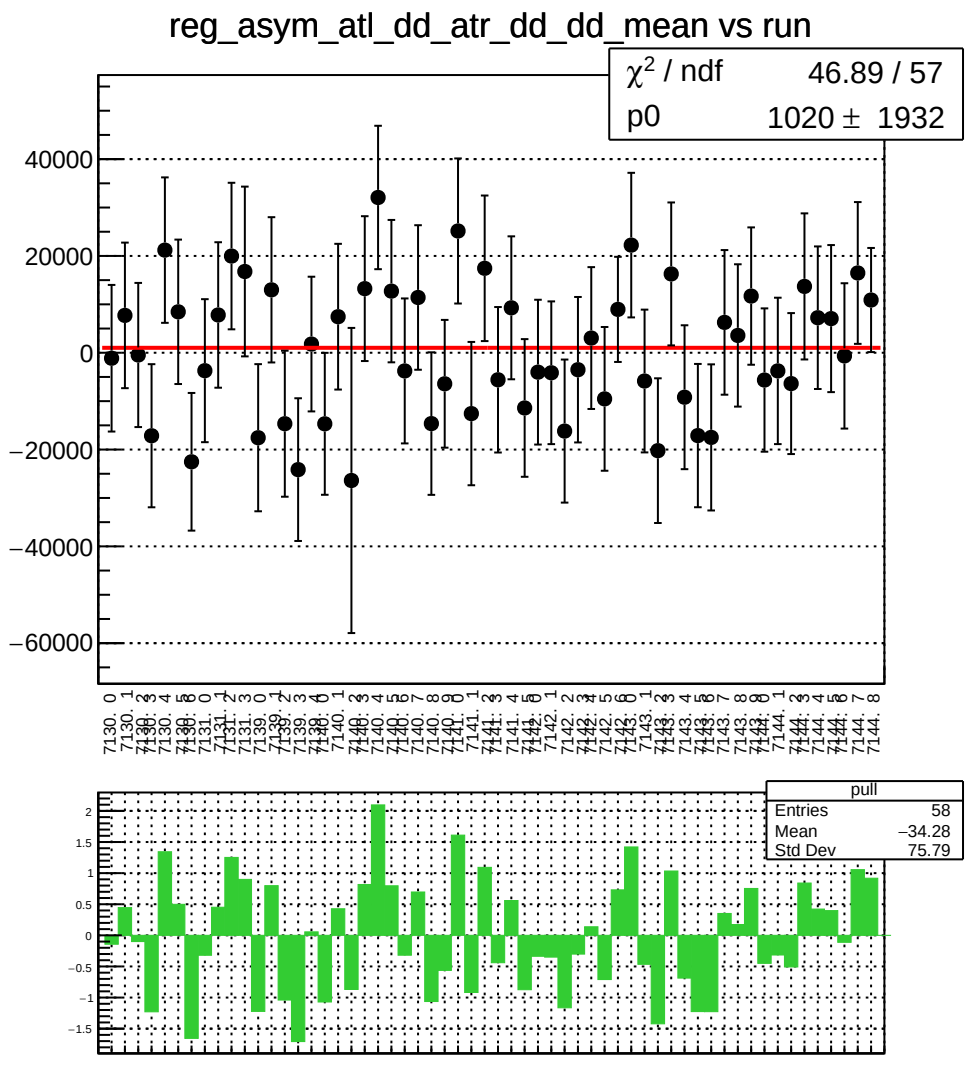

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

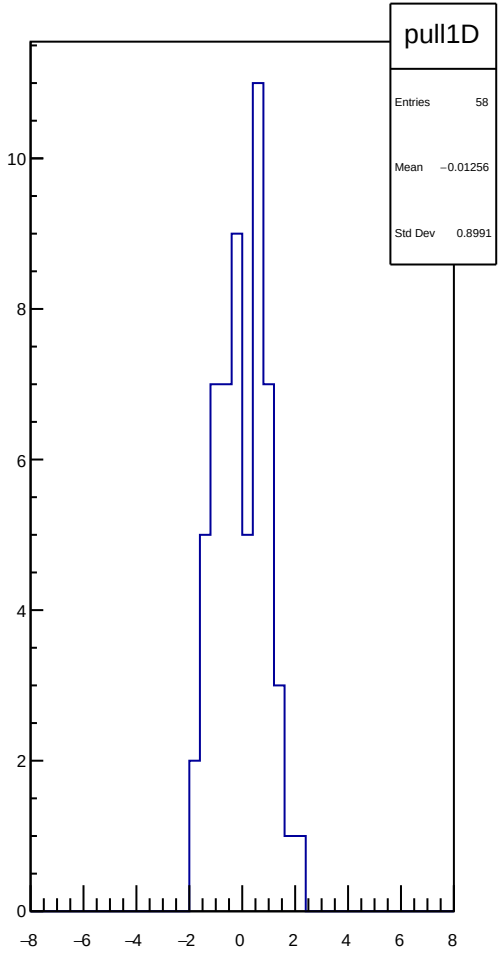

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

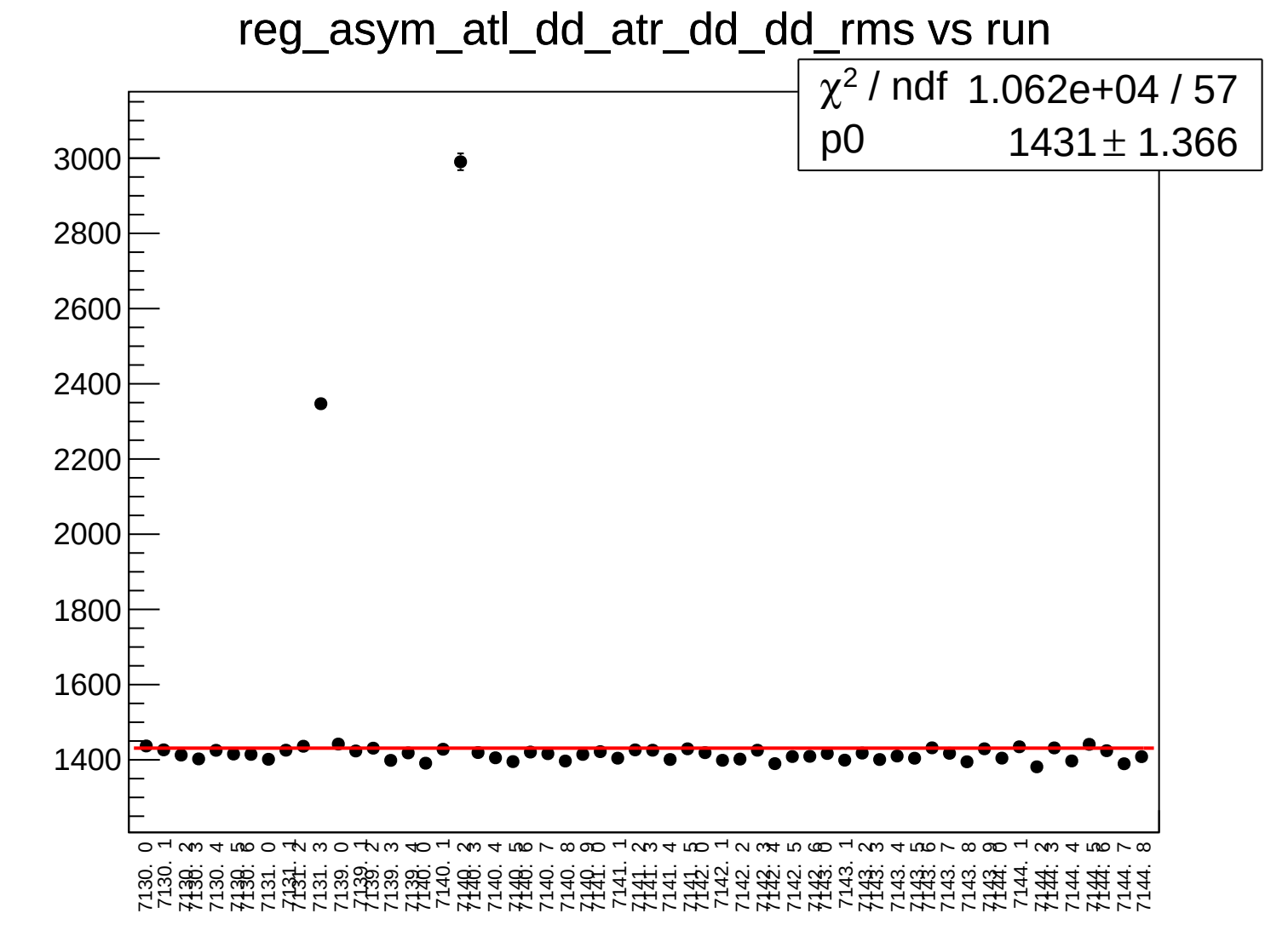

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 65.27 / 57
p0 −907.2 ± 5997
150
100
50
0
−50
−100
−150
−200
pull
Entries 58
Mean −266.6
Std Dev 297.3
2
1
0
−1
−2

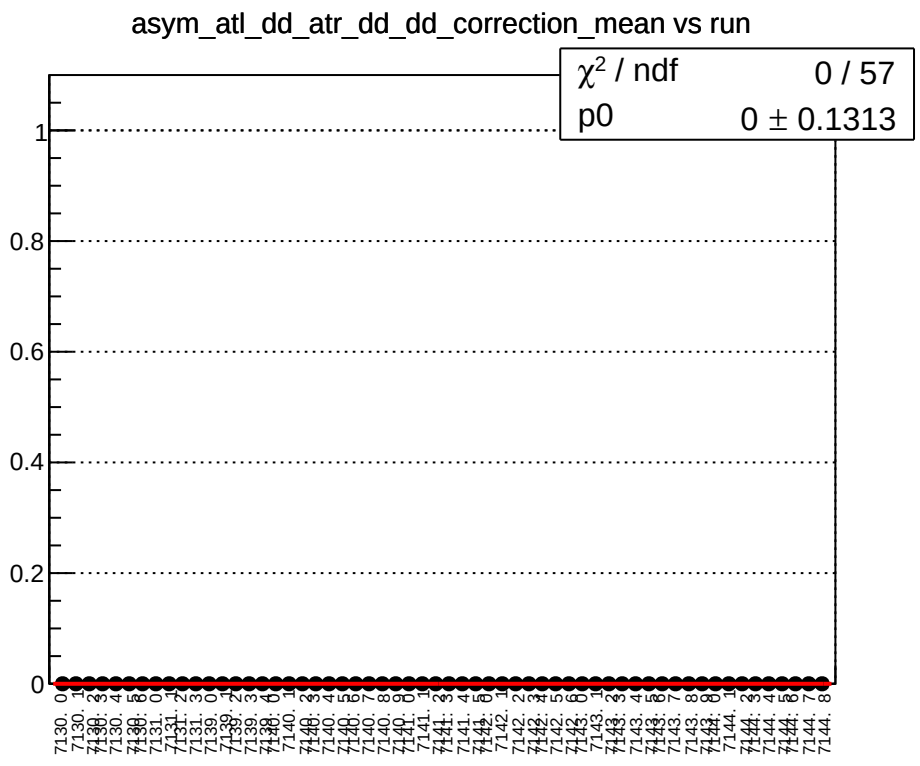

pull1D
Entries 58
Mean −0.01994
Std Dev 1.061
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

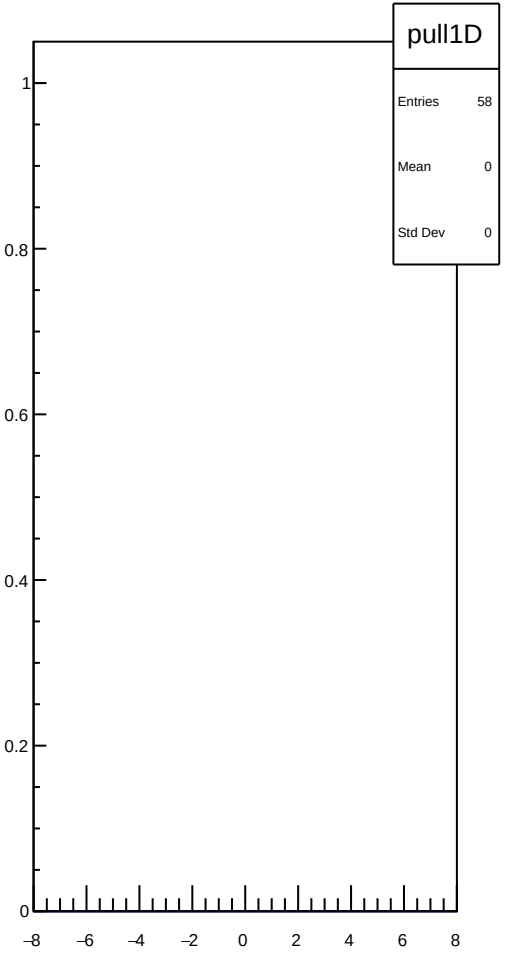

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 5554 / 57
p0 4452 ± 4.241
5400
5200
5000
4800
4600
4400
4200
4000

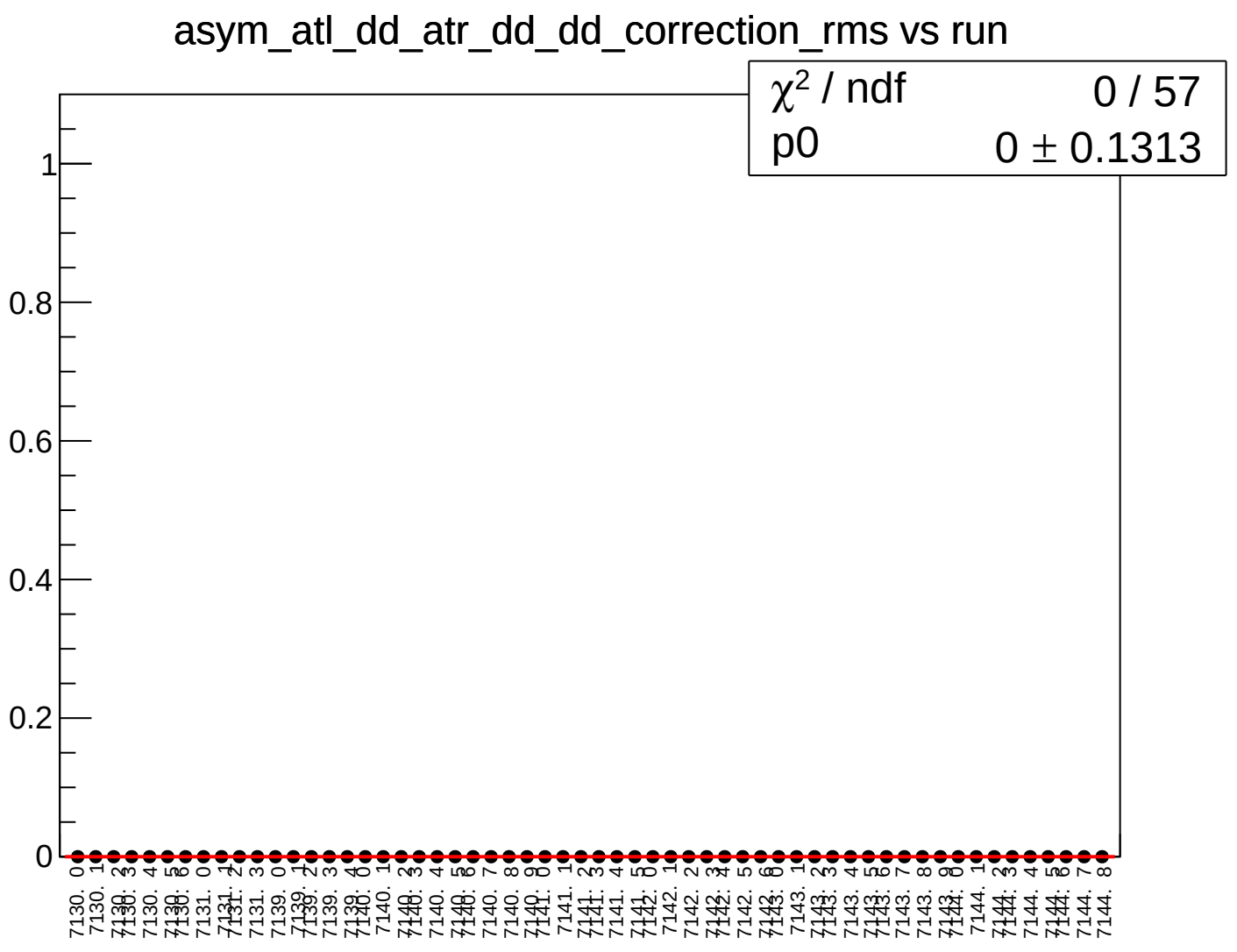

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 46.89 / 57
p0 1020 ± 1932
40000
20000
0
−20000
−40000
−60000
pull
Entries 58
Mean −34.28
Std Dev 75.79
2
1.5
1
0.5
0
−0.5
−1
−1.5

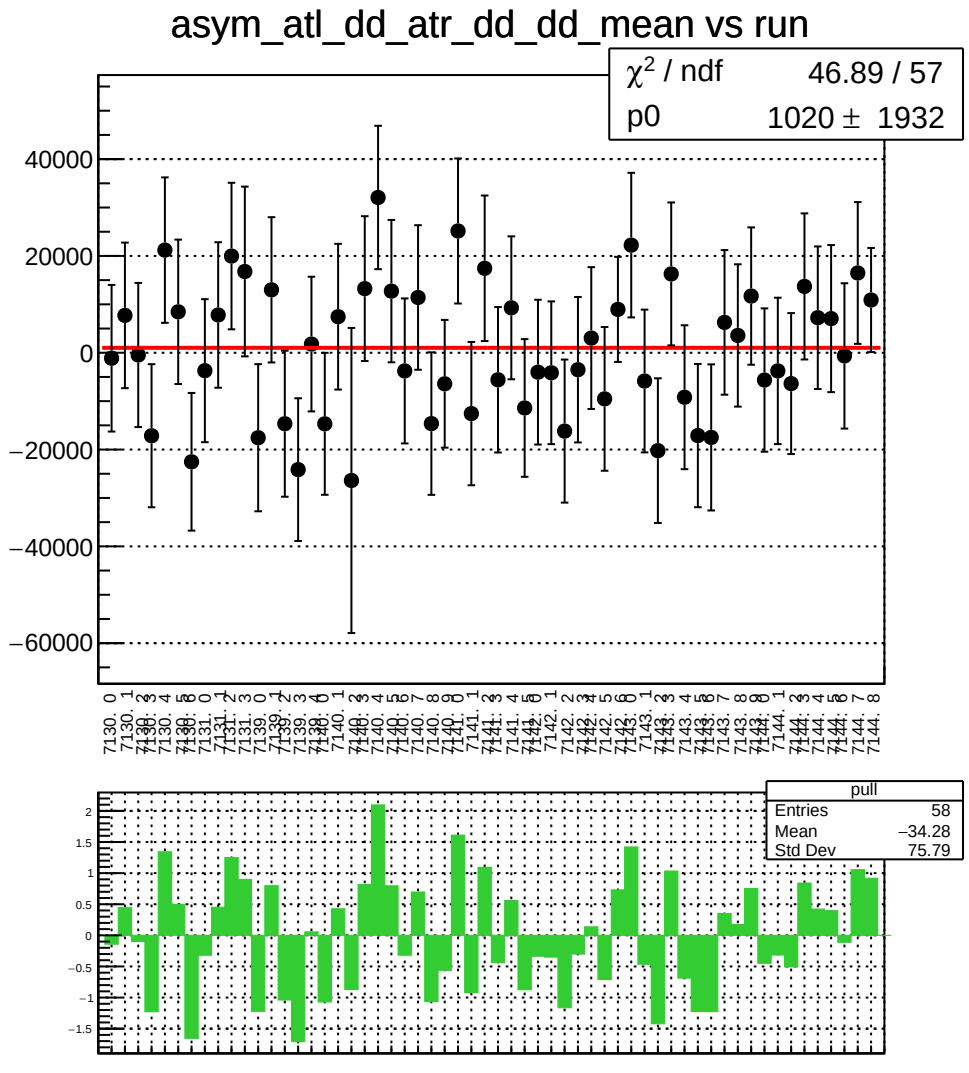

pull1D
Entries 58
Mean −0.01256
Std Dev 0.8991
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

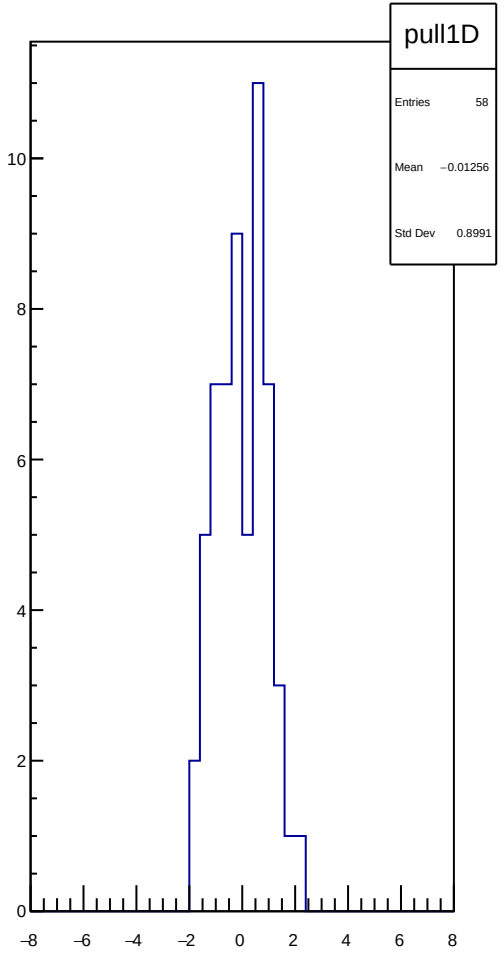

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 1.062e+04 / 57
p0 1431 ± 1.366
3000
2800
2600
2400
2200
2000
1800
1600
1400

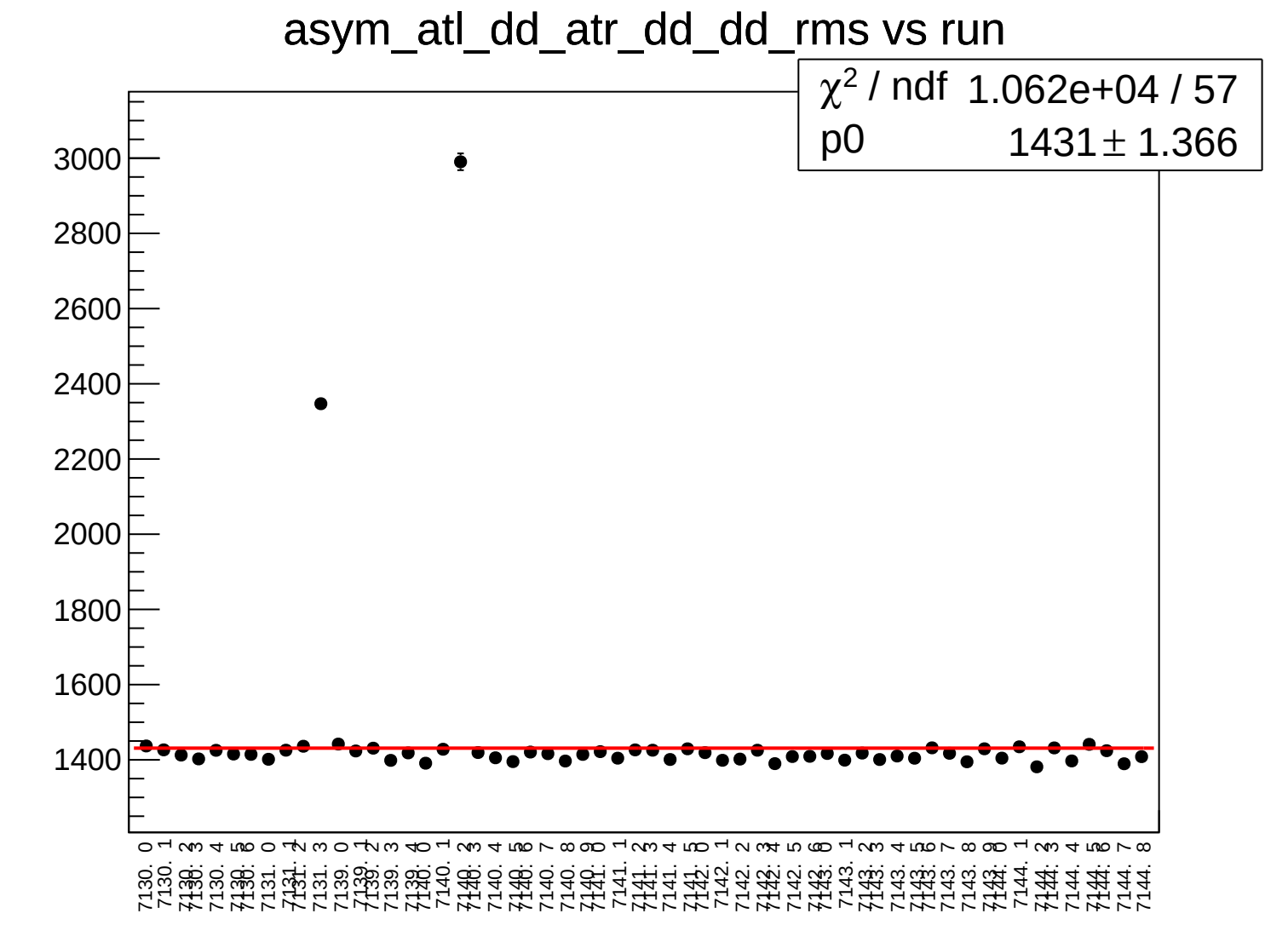

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

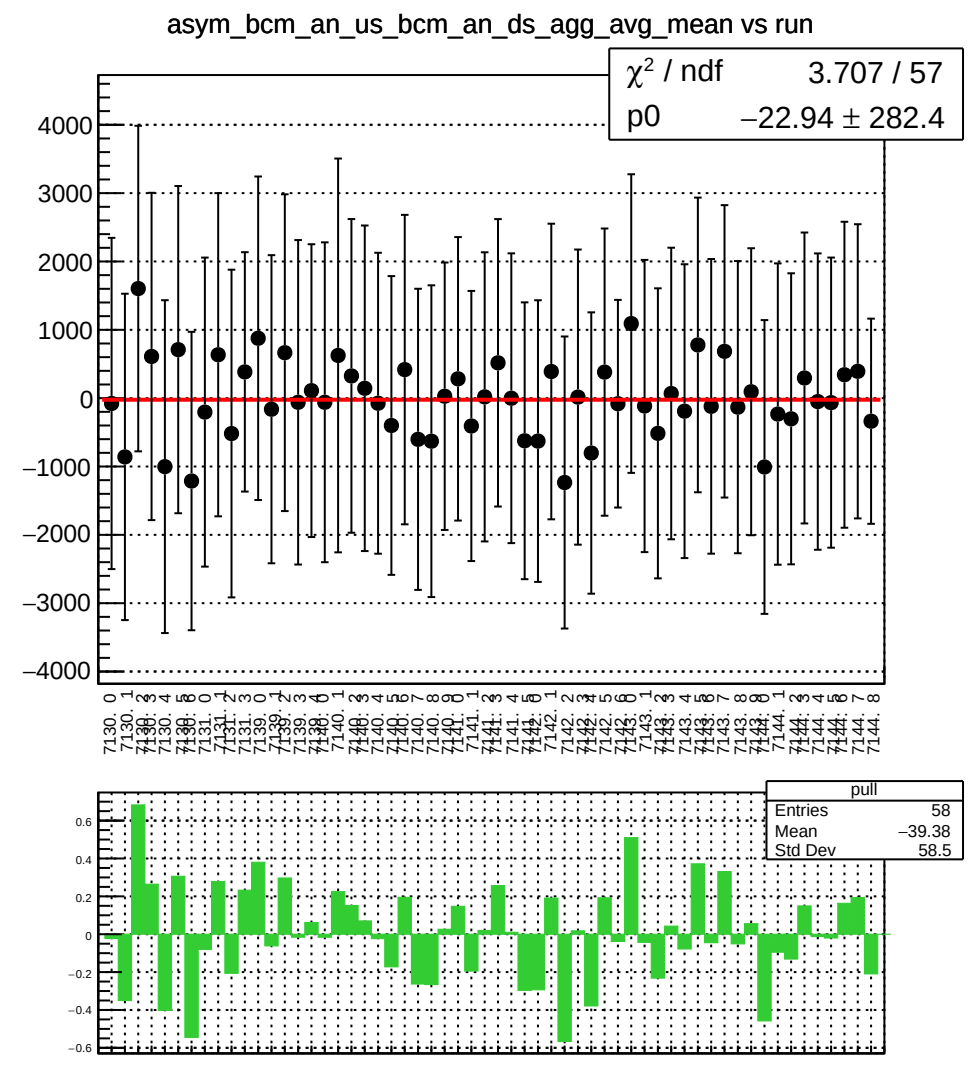

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

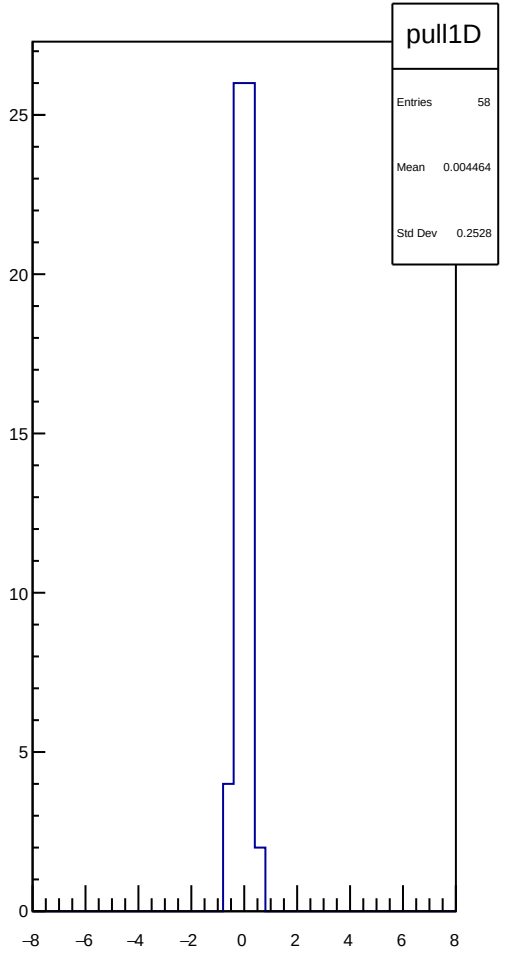

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

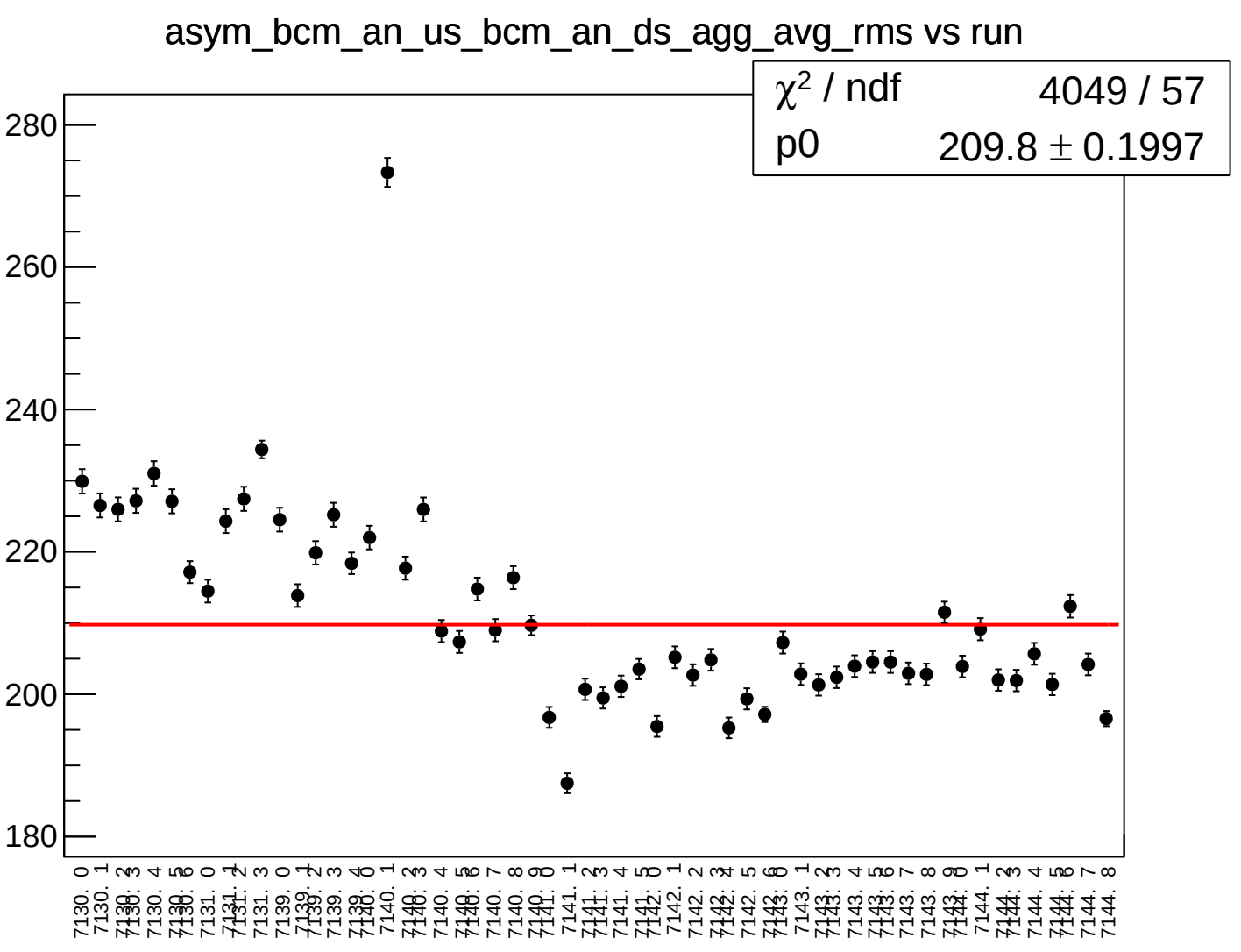

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 46.89 / 57
p0 1020 ± 1932
40000
20000
0
−20000
−40000
−60000
pull
Entries 58
Mean −34.28
Std Dev 75.79
2
1.5
1
0.5
0
−0.5
−1
−1.5

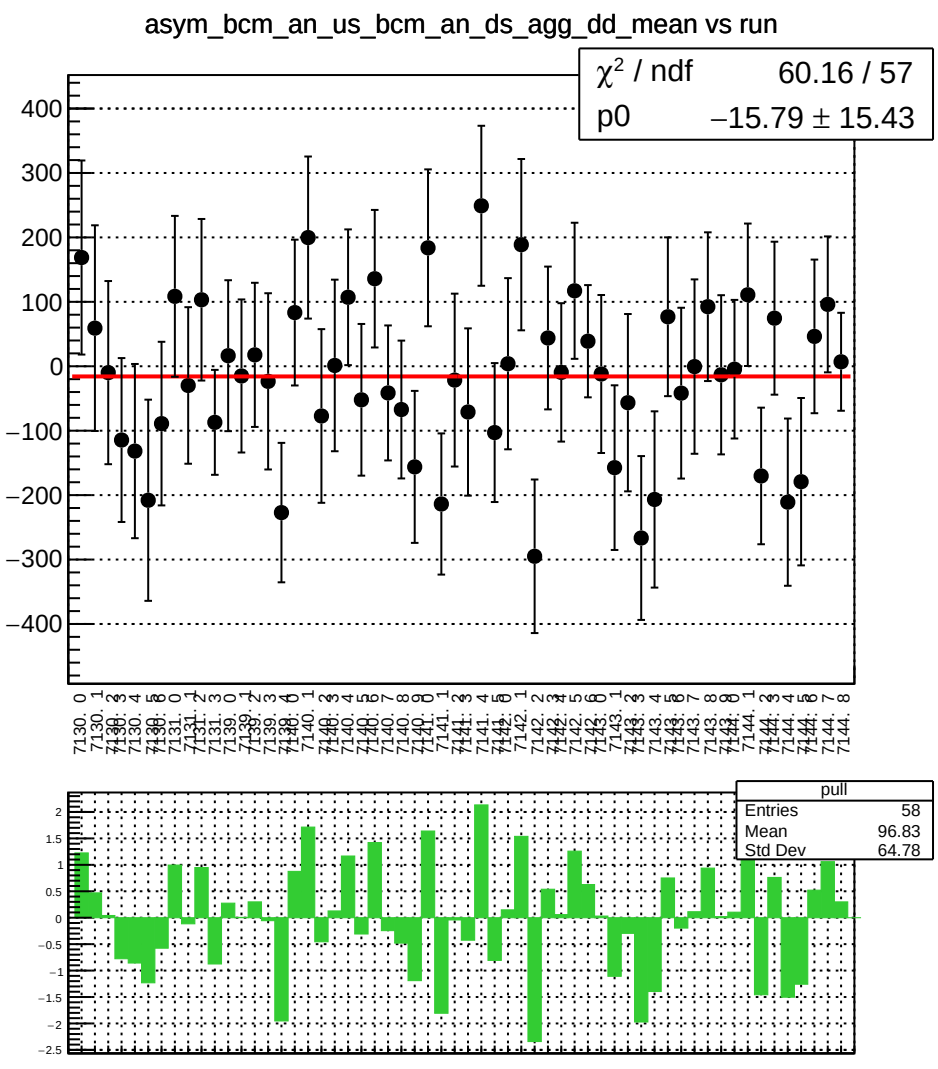

pull1D
Entries 58
Mean −0.01256
Std Dev 0.8991
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

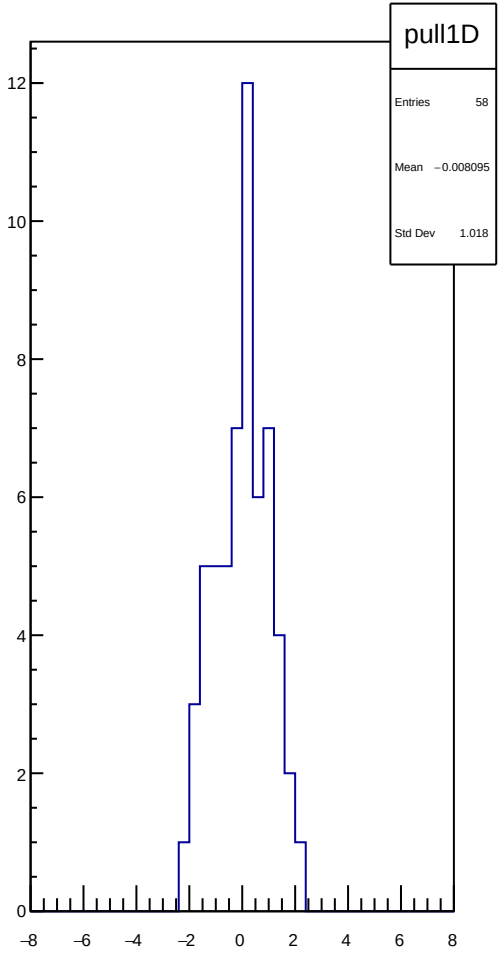

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.062e+04 / 57
p0 1431 ± 1.366
3000
2800
2600
2400
2200
2000
1800
1600
1400

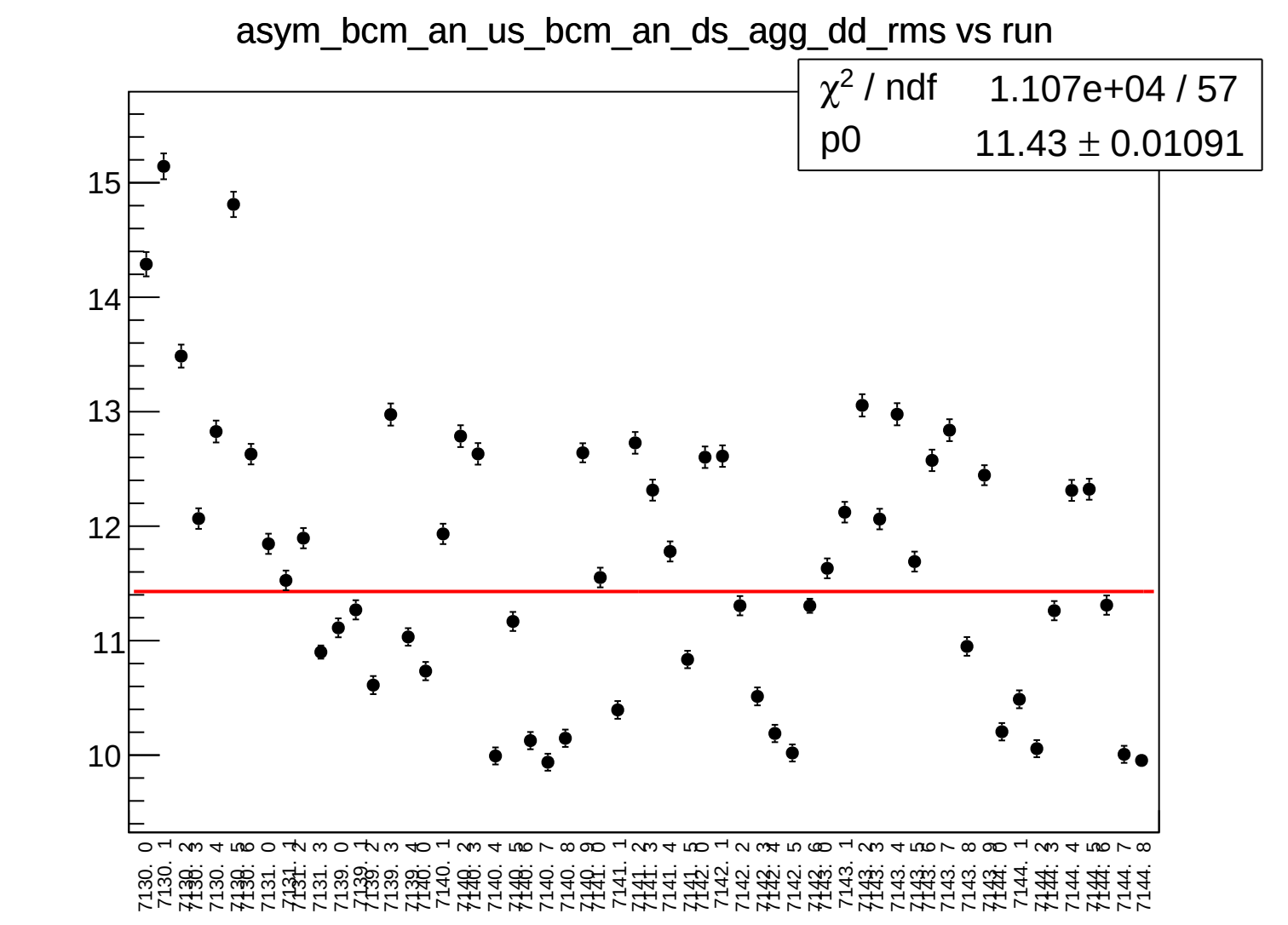

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 3.707 / 57
p0 −22.94 ± 282.4
pull
Entries 58
Mean −39.38
Std Dev 58.5

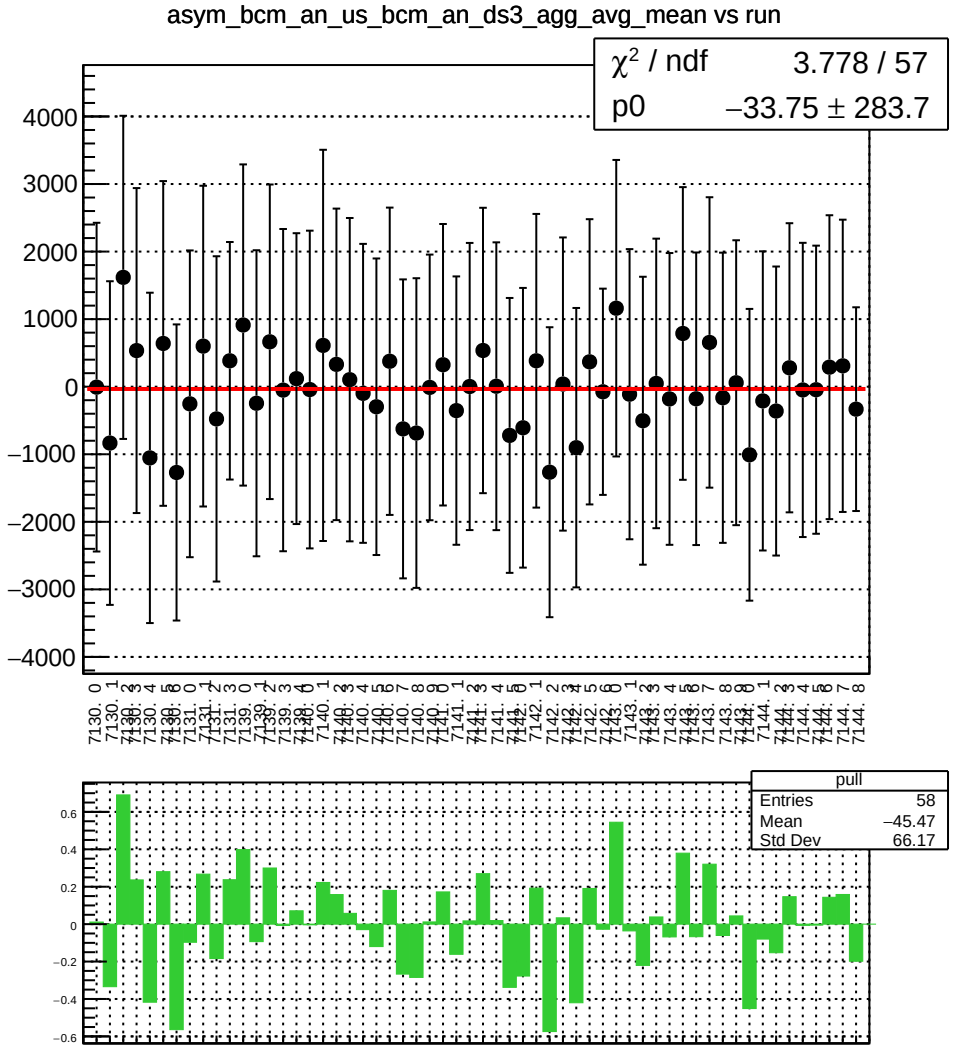

pull1D
Entries 58
Mean 0.004464
Std Dev 0.2528

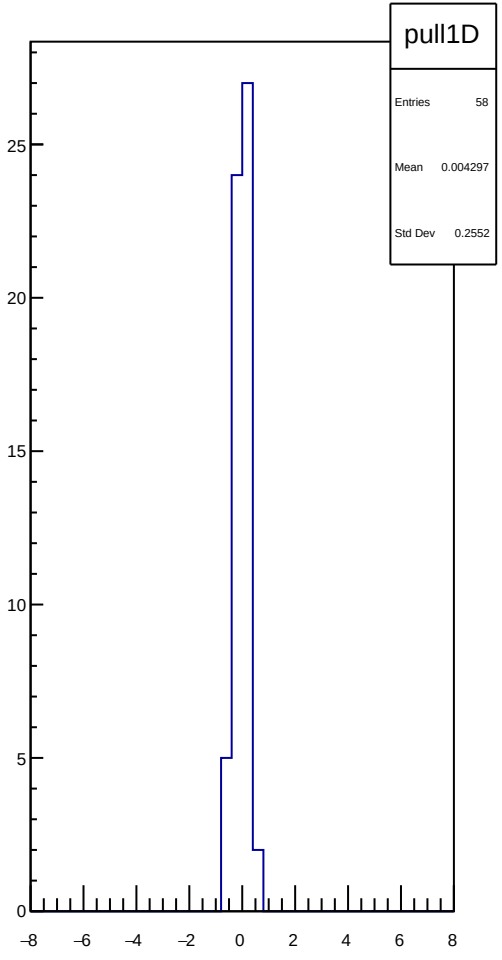

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4049 / 57
p0 209.8 ± 0.1997
280
260
240
220
200
180

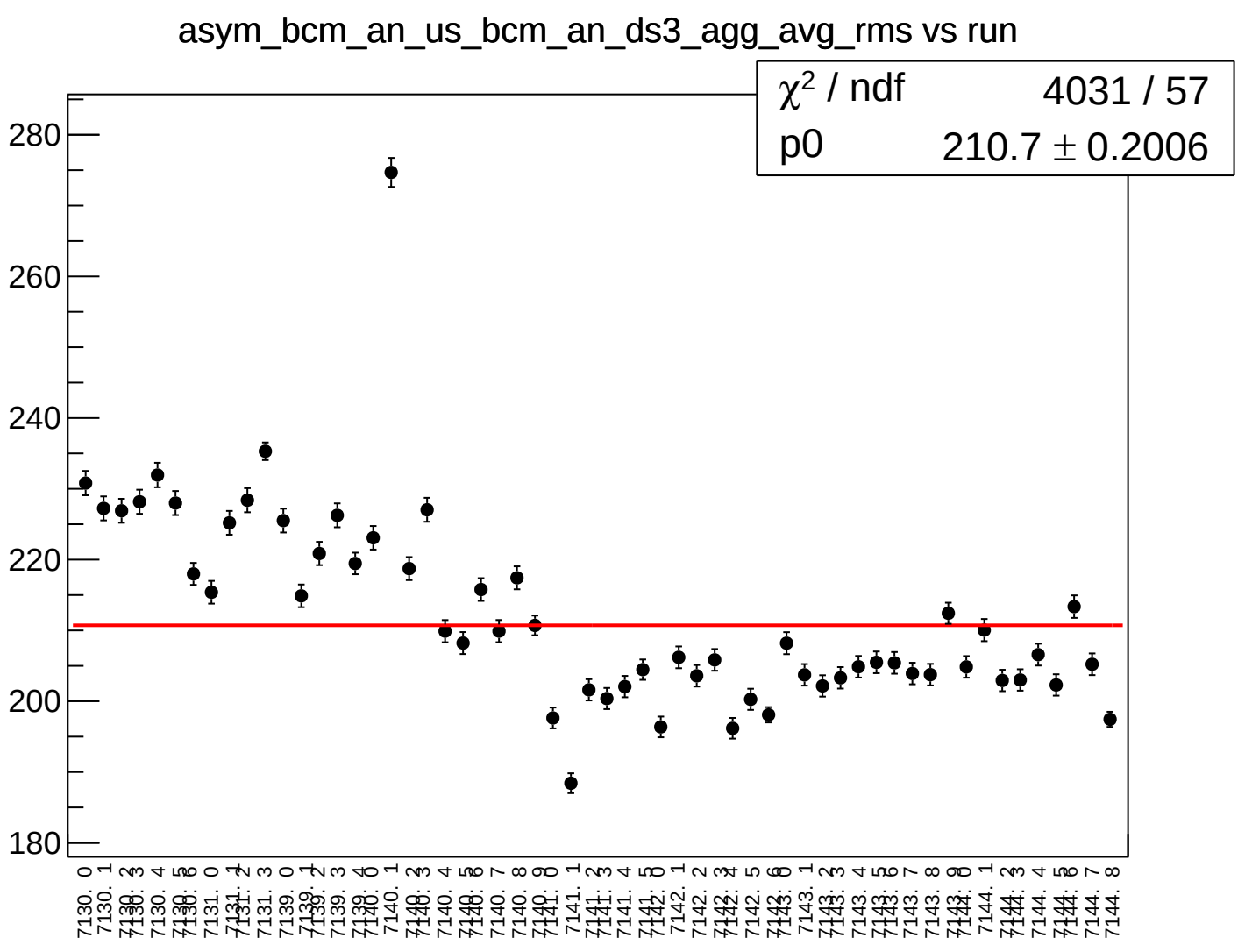

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 60.16 / 57
p0 −15.79 ± 15.43
pull
Entries 58
Mean 96.83
Std Dev 64.78

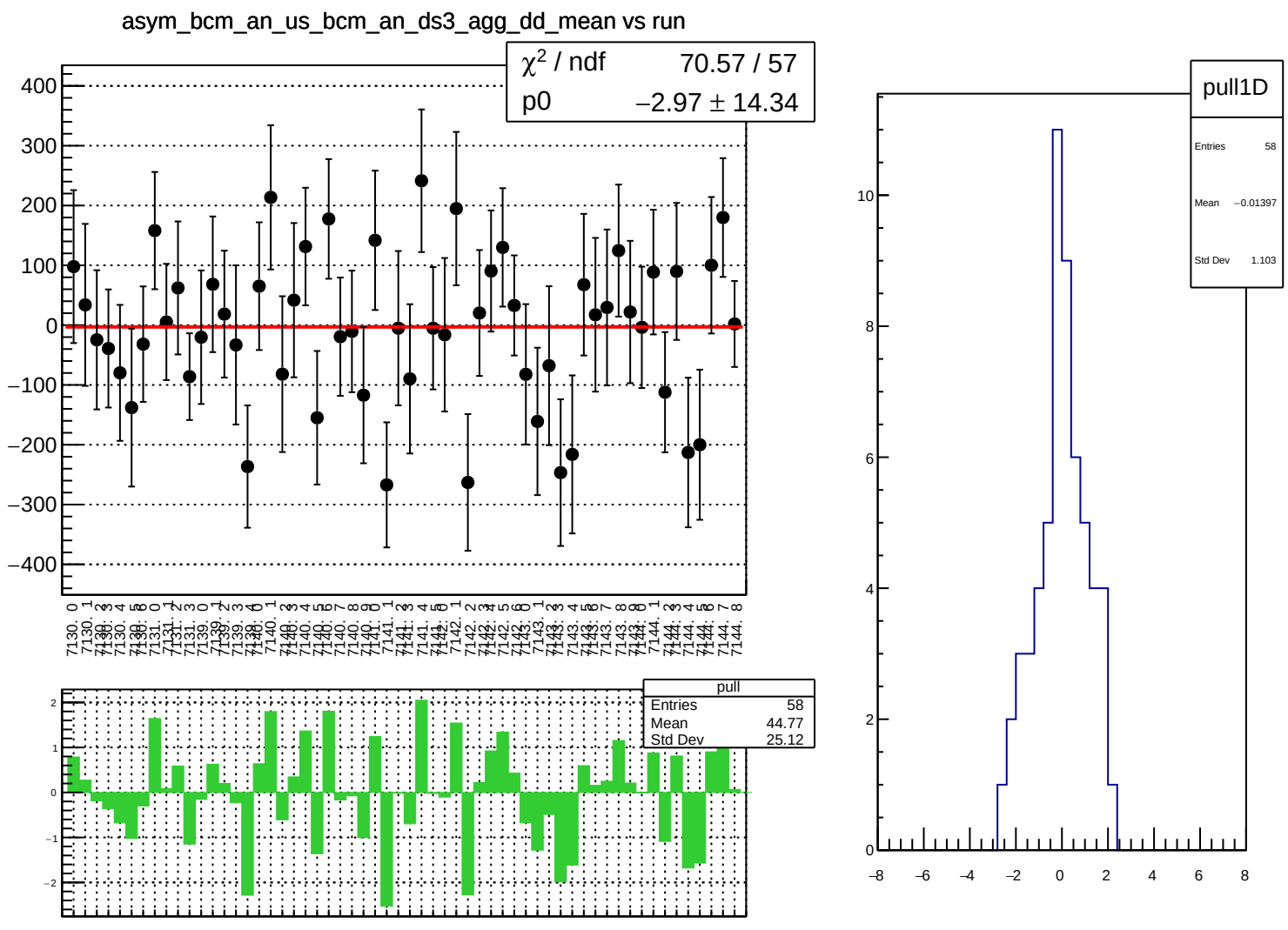

pull1D
Entries 58
Mean −0.008095
Std Dev 1.018

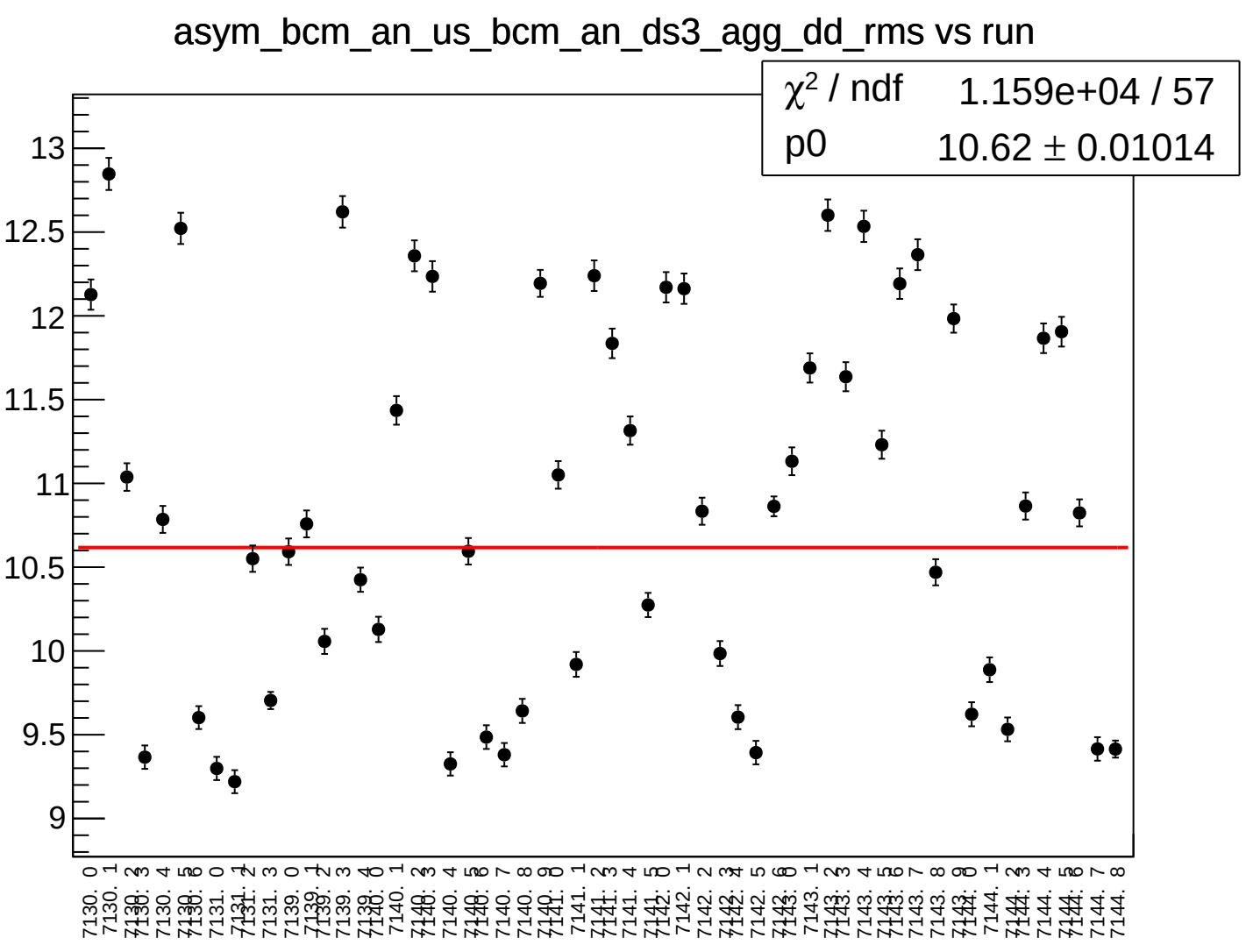

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ2 / ndf 1.107e+04 / 57
p0 11.43 ± 0.01091
15
14
13
12
11
10

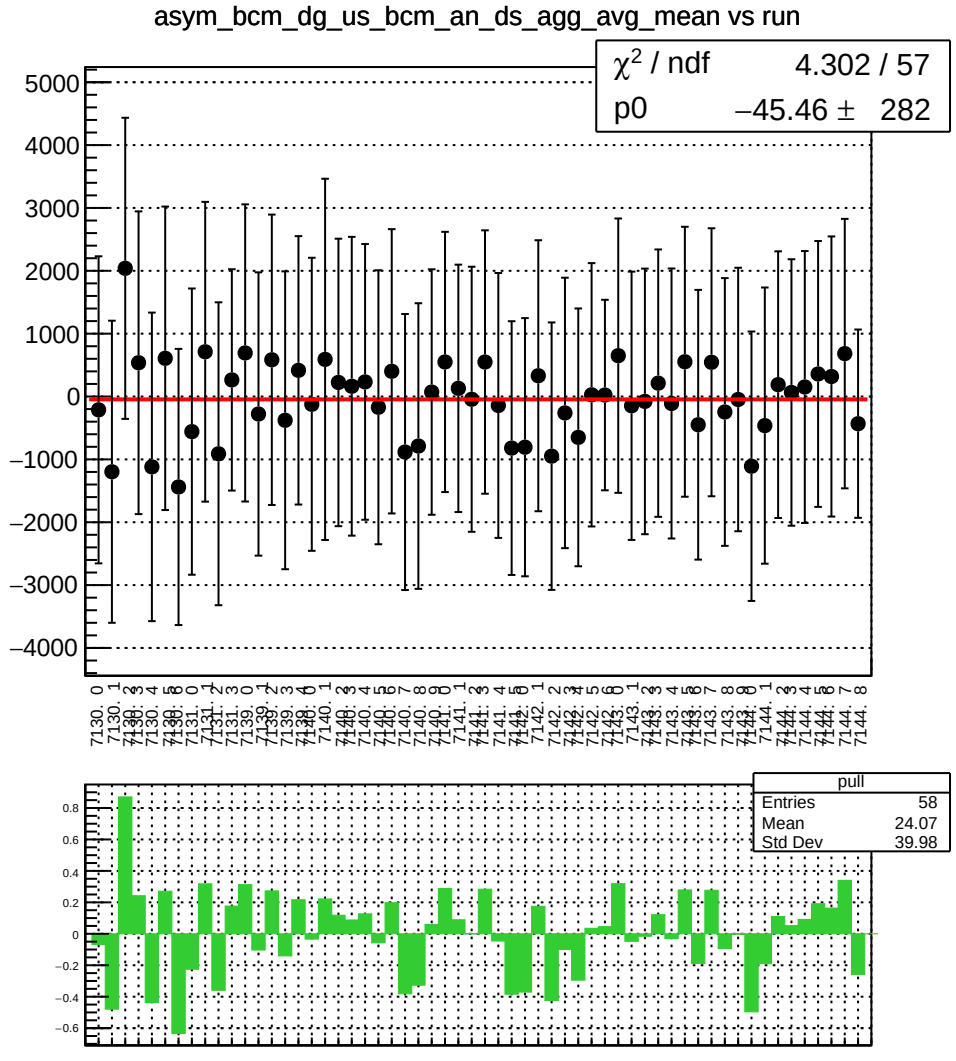

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 3.778 / 57
p0 −33.75 ± 283.7
pull
Entries 58
Mean −45.47
Std Dev 66.17

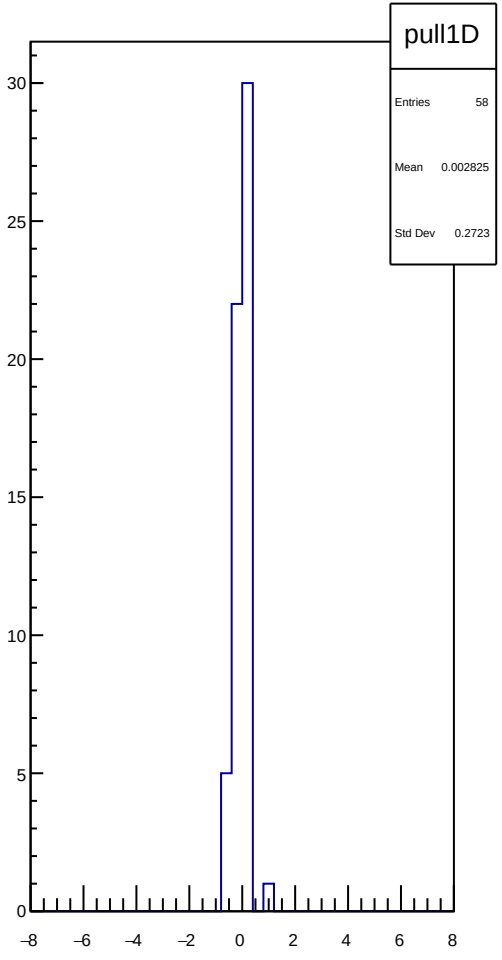

pull1D
Entries 58
Mean 0.004297
Std Dev 0.2552

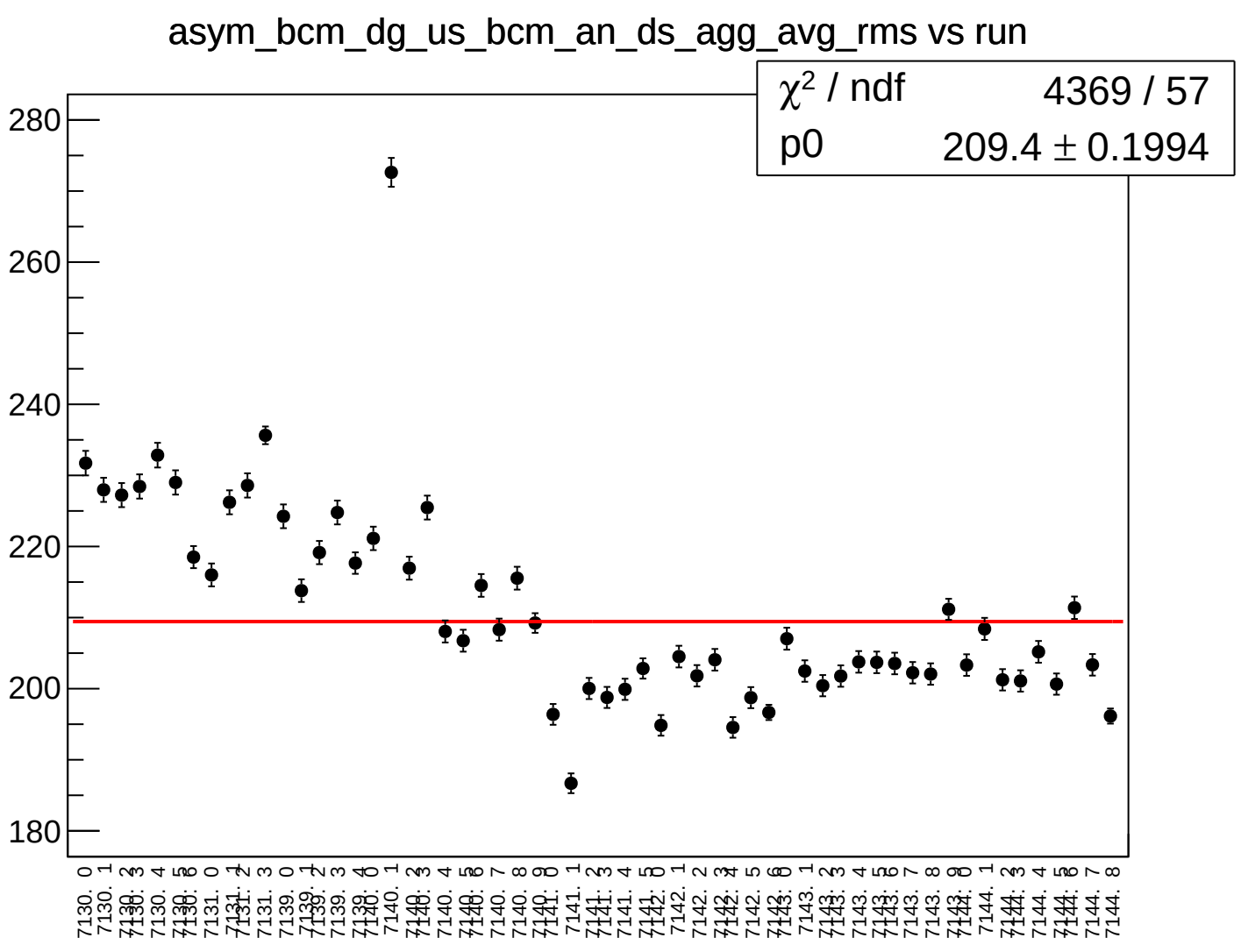

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 4031 / 57
p0 210.7 ± 0.2006
280
260
240
220
200
180

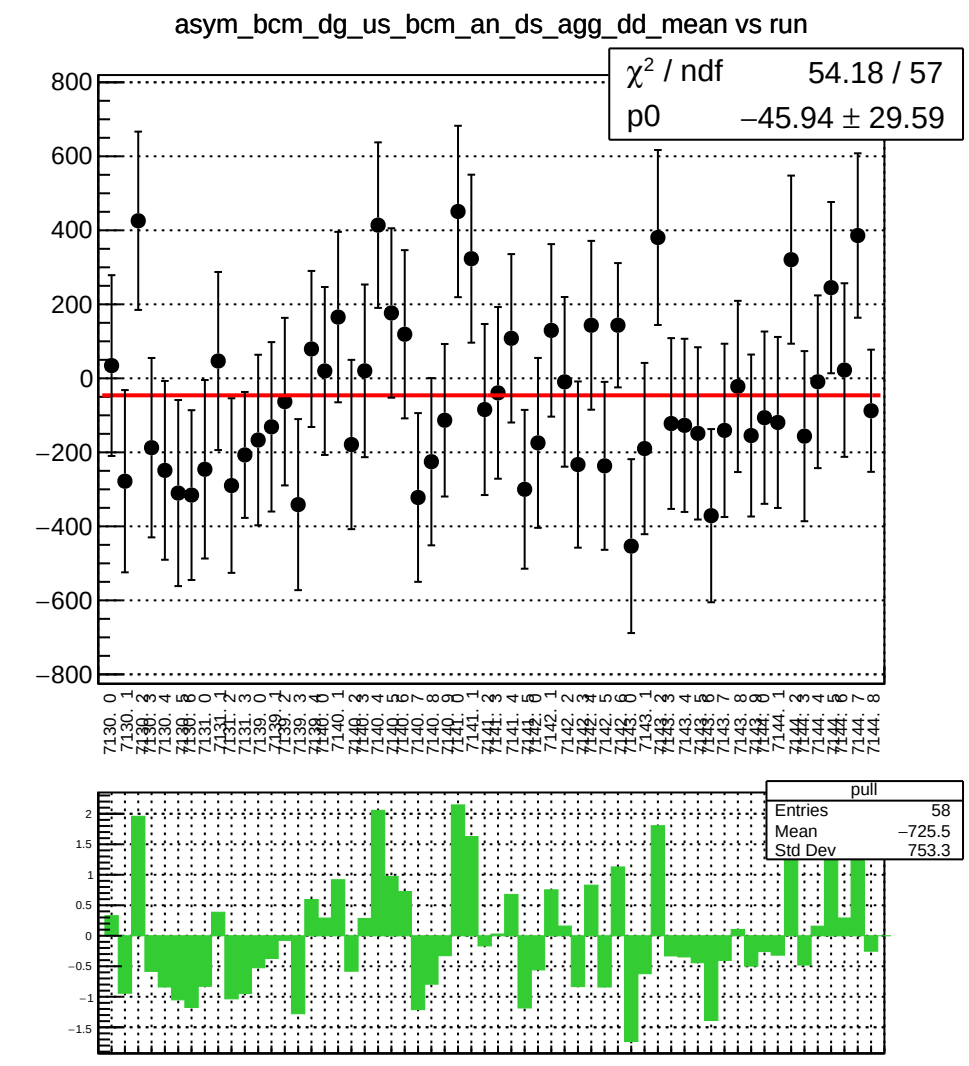

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 70.57 / 57
p0 −2.97 ± 14.34
pull
Entries 58
Mean 44.77
Std Dev 25.12
pull1D
Entries 58
Mean −0.01397
Std Dev 1.103

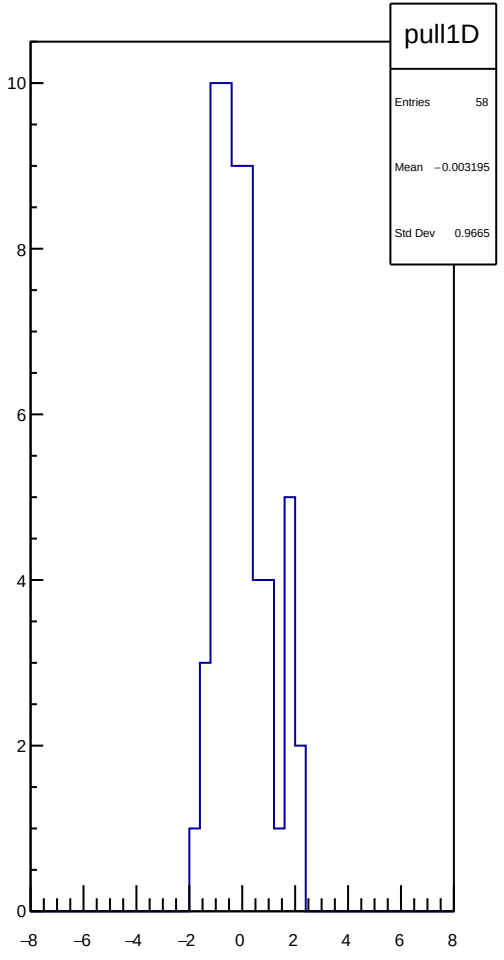

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.159e+04 / 57
p0 10.62 ± 0.01014
13
12.5
12
11.5
11
10.5
10
9.5
9

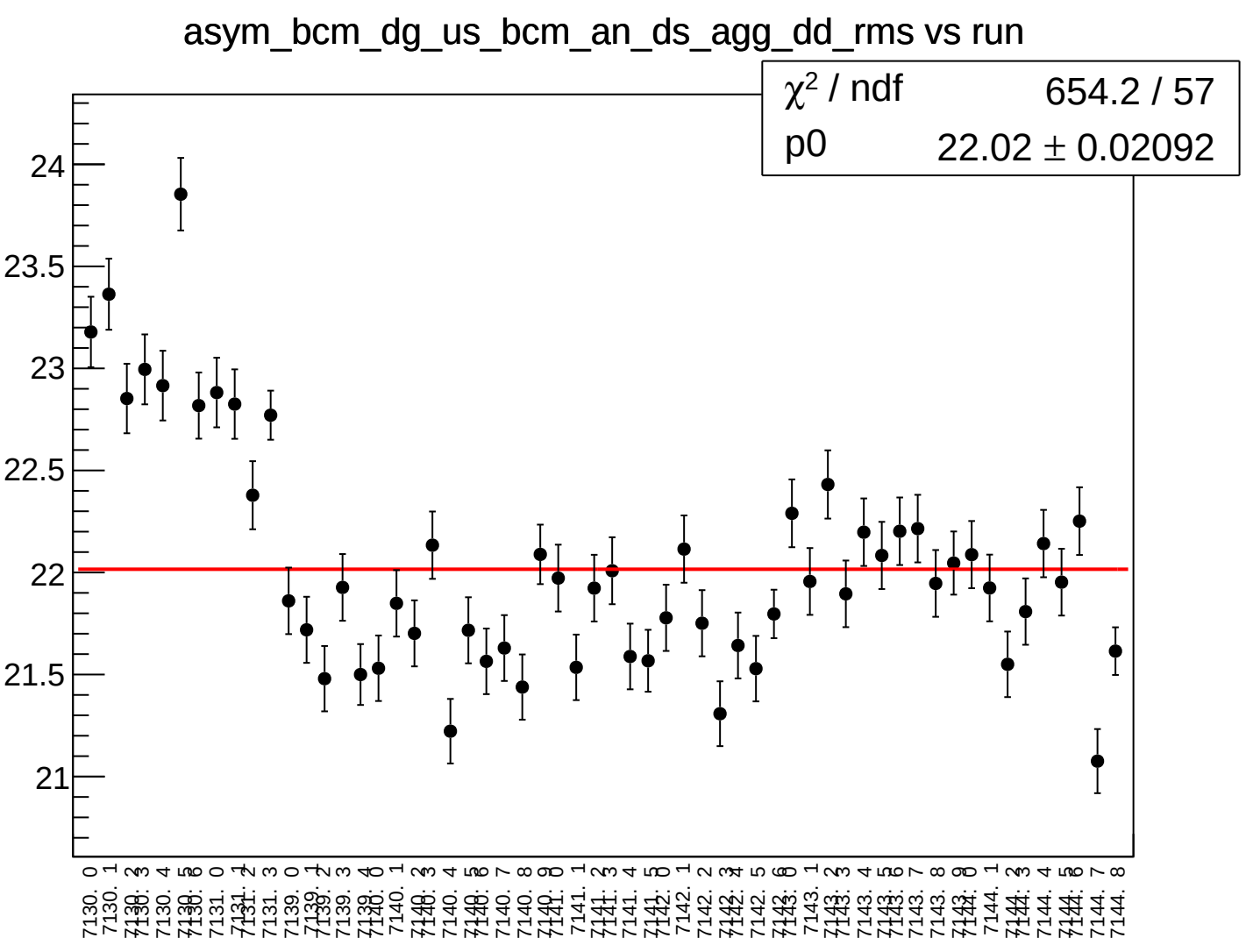

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 4.302 / 57
p0 −45.46 ± 282
pull
Entries 58
Mean 24.07
Std Dev 39.98

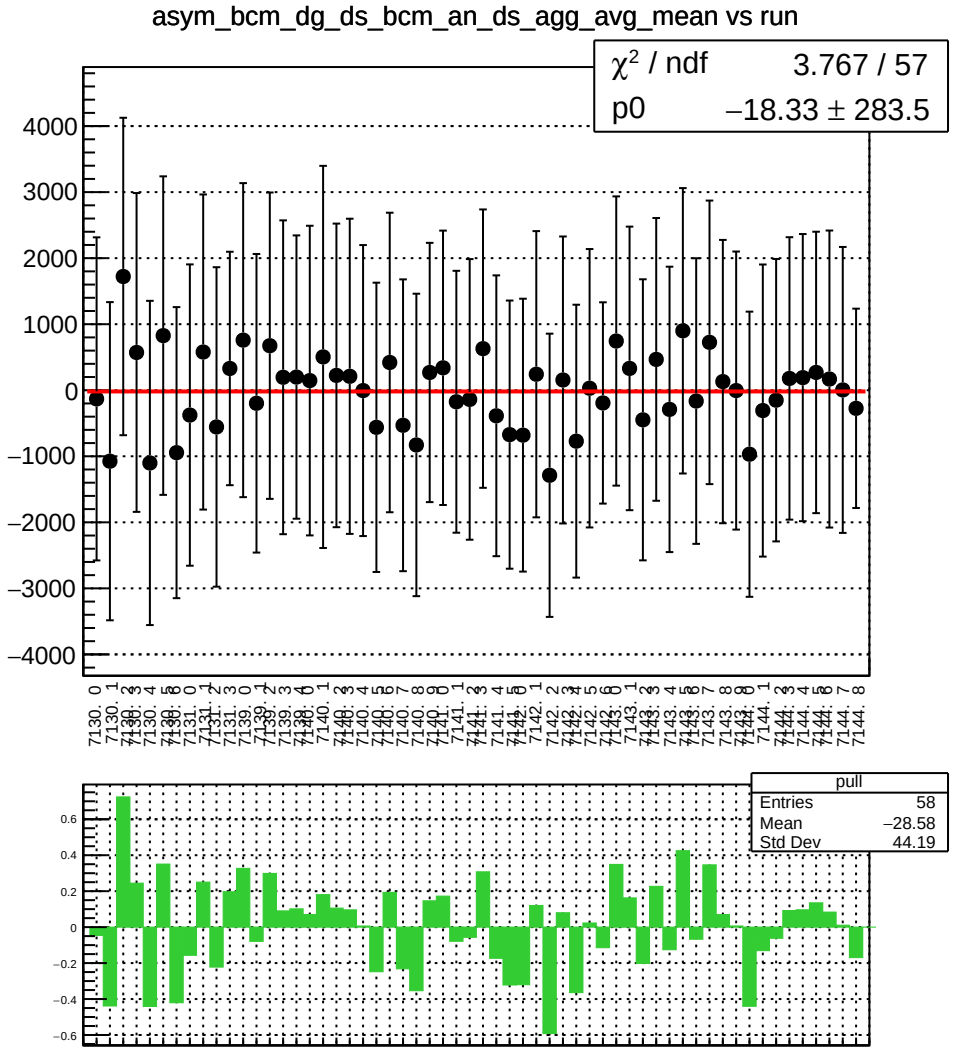

pull1D
Entries 58
Mean 0.002825
Std Dev 0.2723

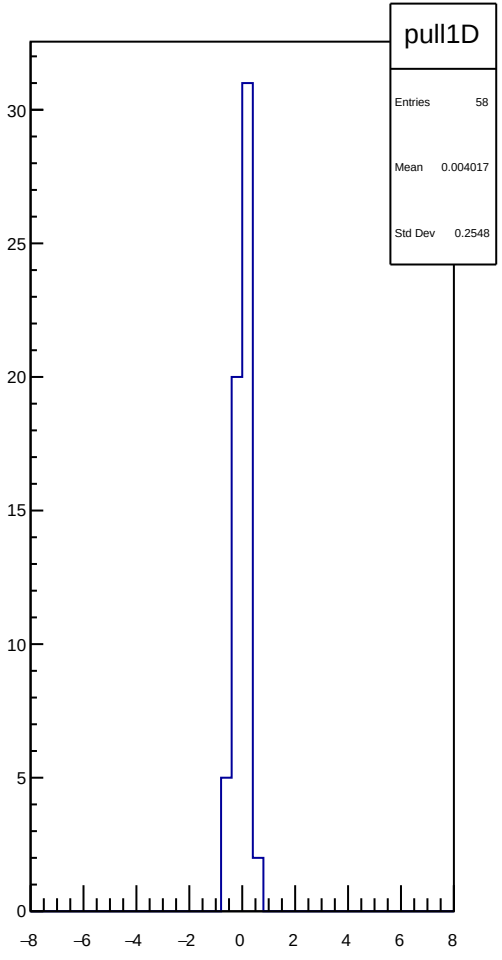

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4369 / 57
p0 209.4 ± 0.1994
280
260
240
220
200
180

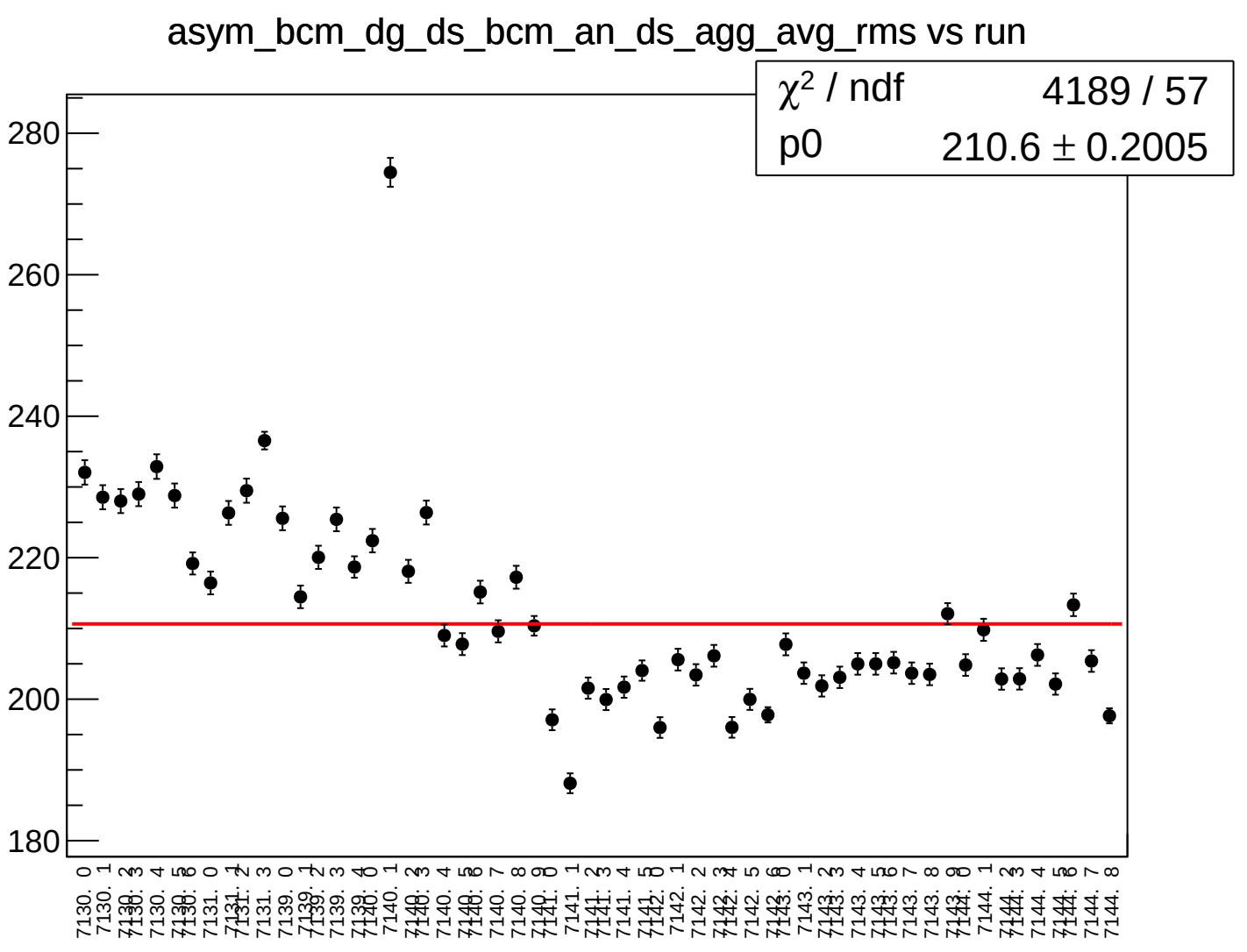

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 54.18 / 57
p0 −45.94 ± 29.59
pull
Entries 58
Mean −725.5
Std Dev 753.3

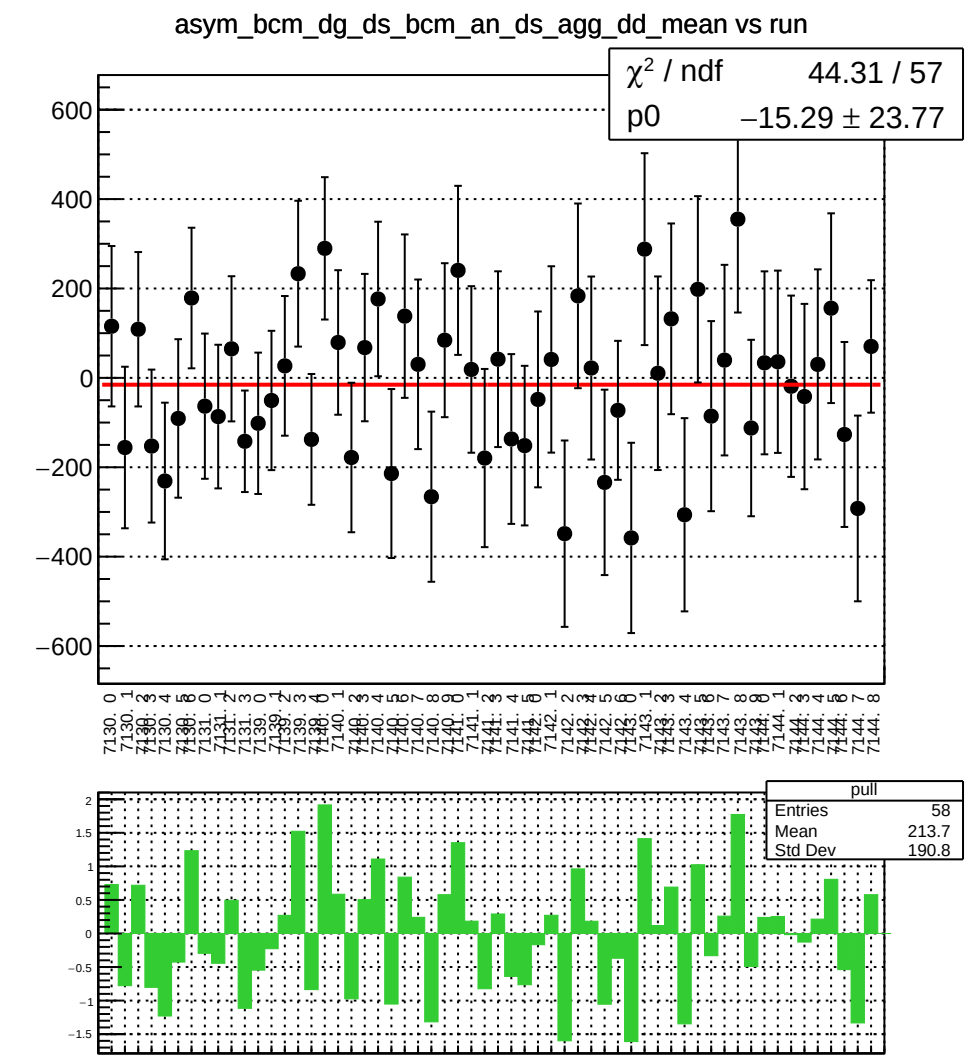

pull1D
Entries 58
Mean −0.003195
Std Dev 0.9665

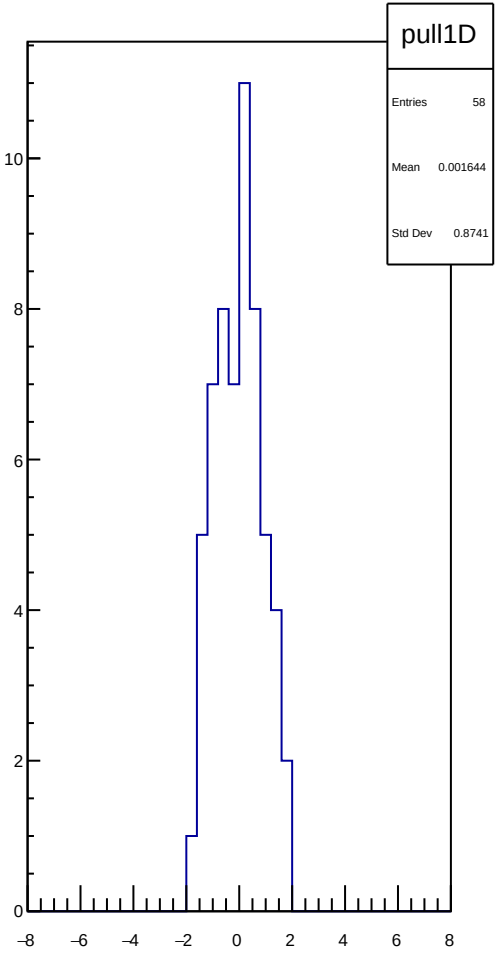

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 654.2 / 57
p0 22.02 ± 0.02092
24
23.5
23
22.5
22
21.5
21

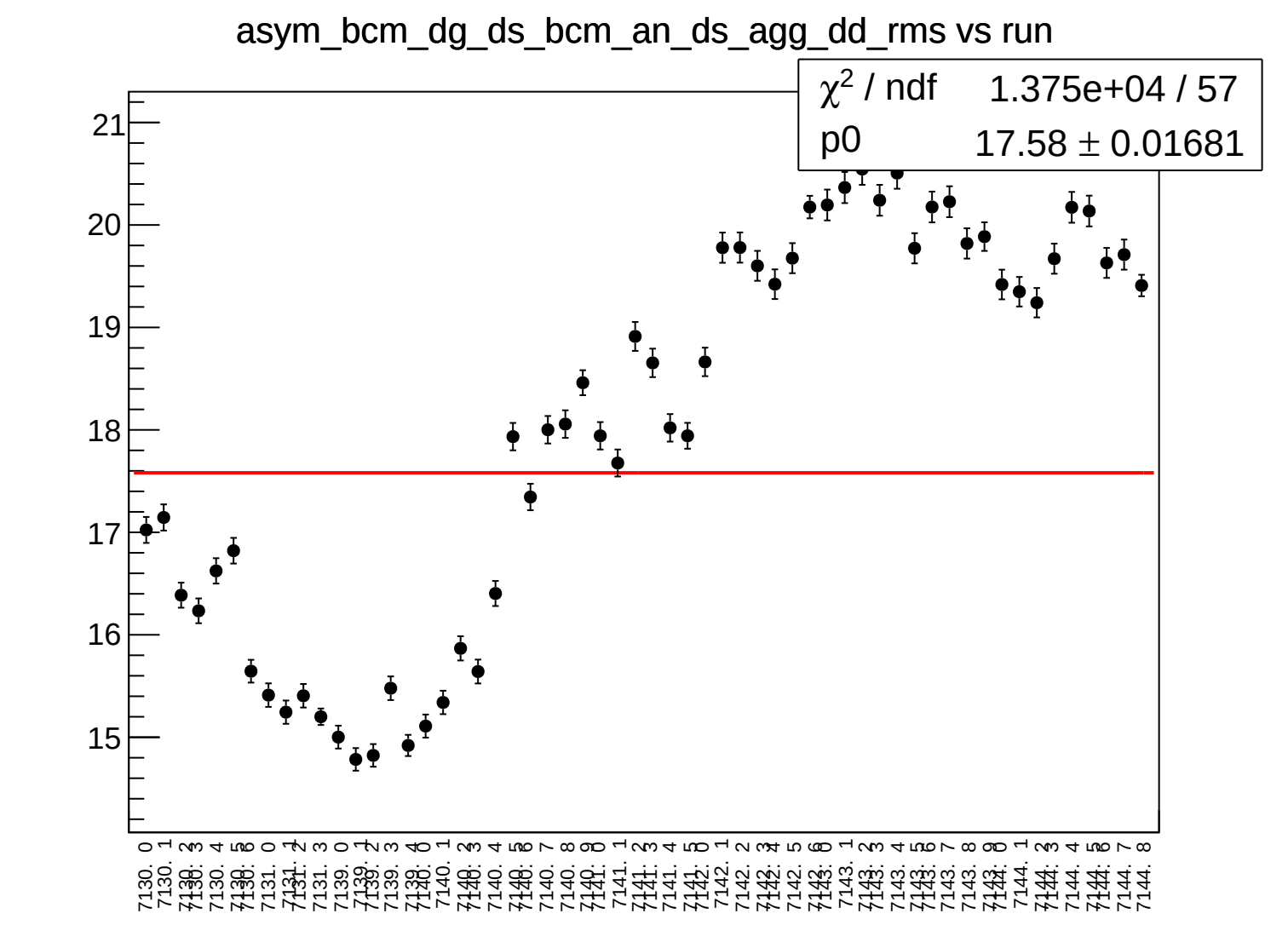

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 3.767 / 57
p0 −18.33 ± 283.5
pull
Entries 58
Mean −28.58
Std Dev 44.19

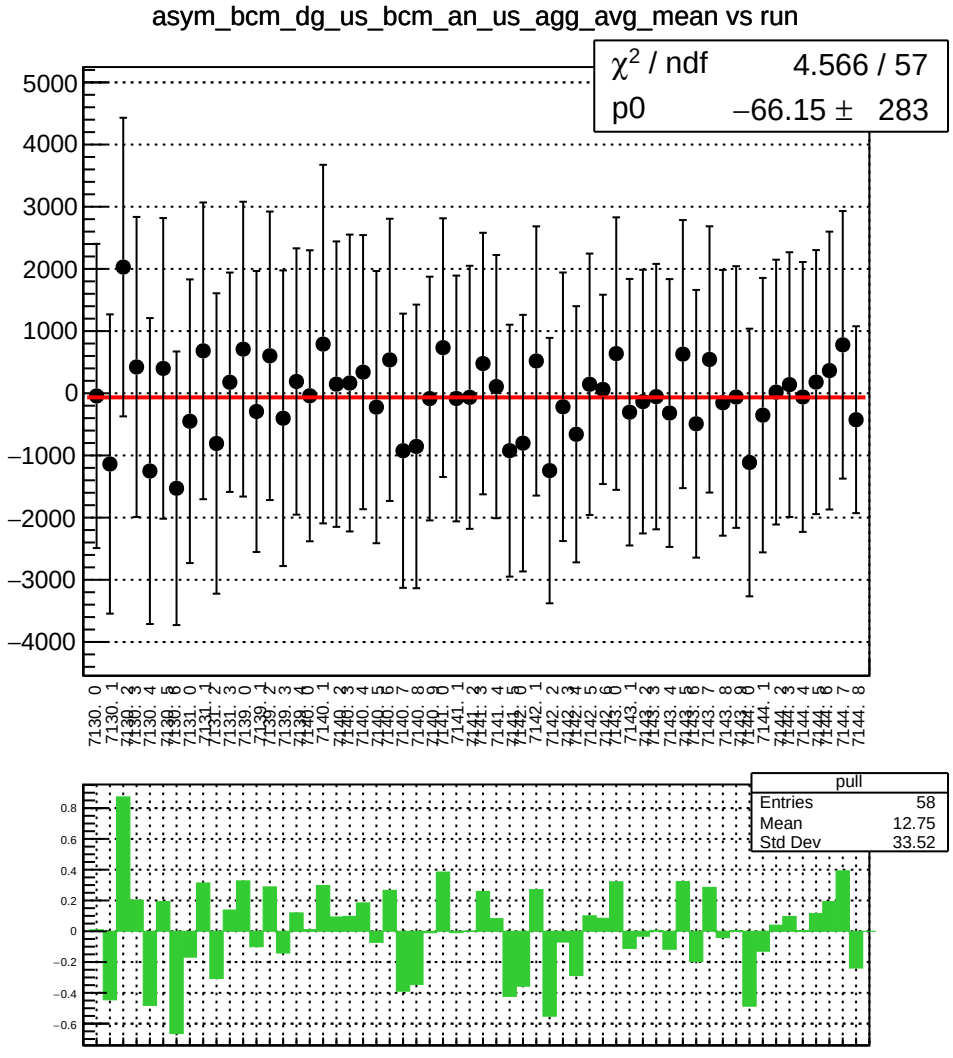

pull1D
Entries 58
Mean 0.004017
Std Dev 0.2548

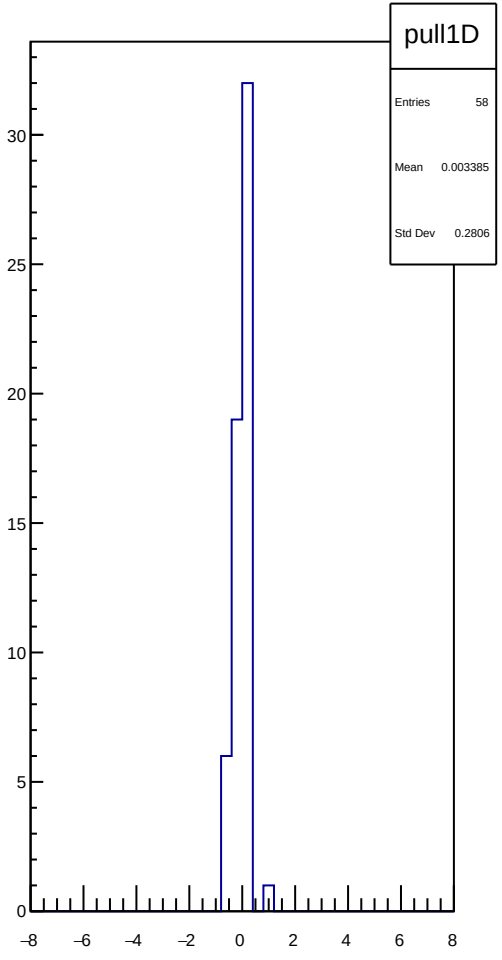

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4189 / 57
p0 210.6 ± 0.2005
280
260
240
220
200
180

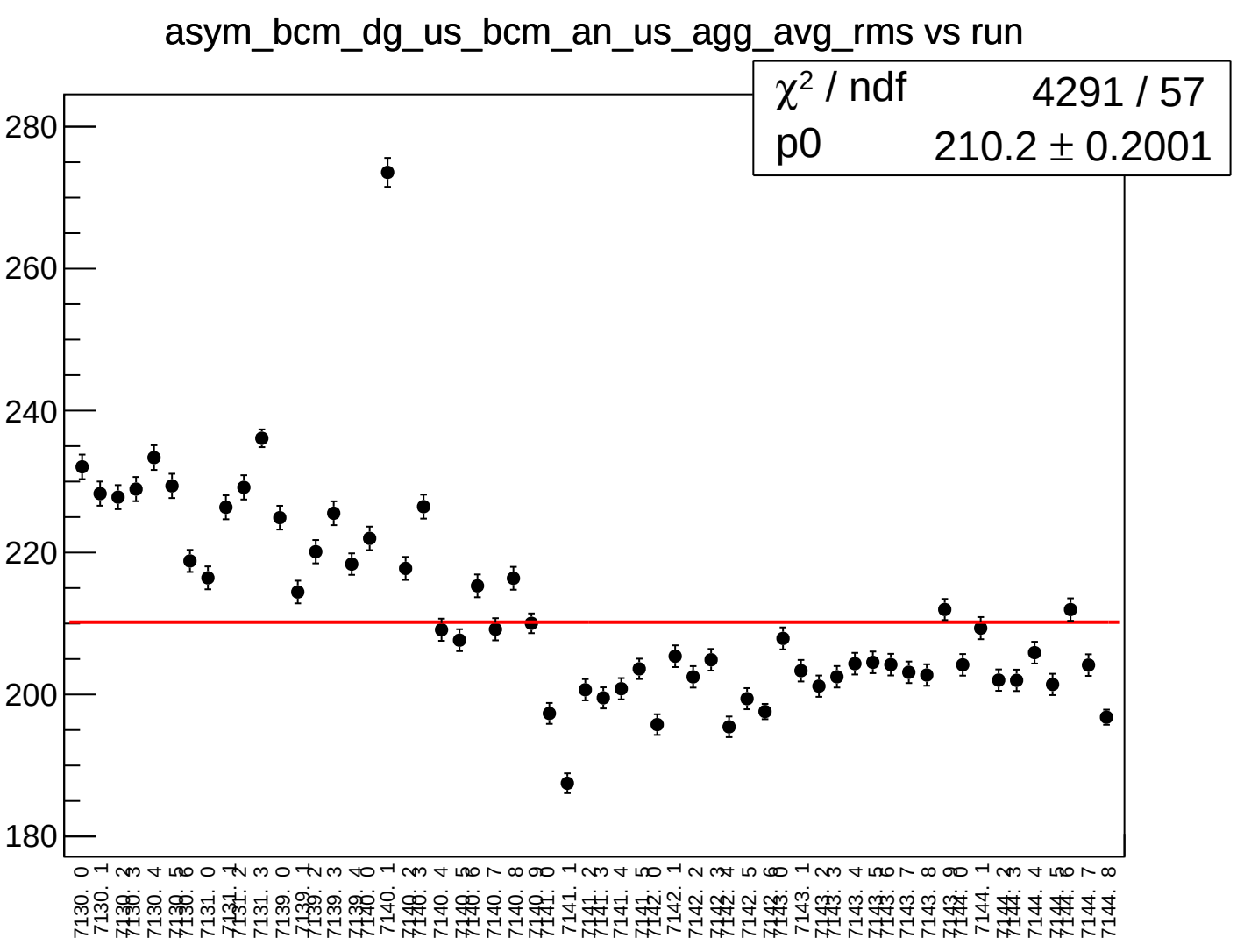

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 44.31 / 57
p0 −15.29 ± 23.77
pull
Entries 58
Mean 213.7
Std Dev 190.8

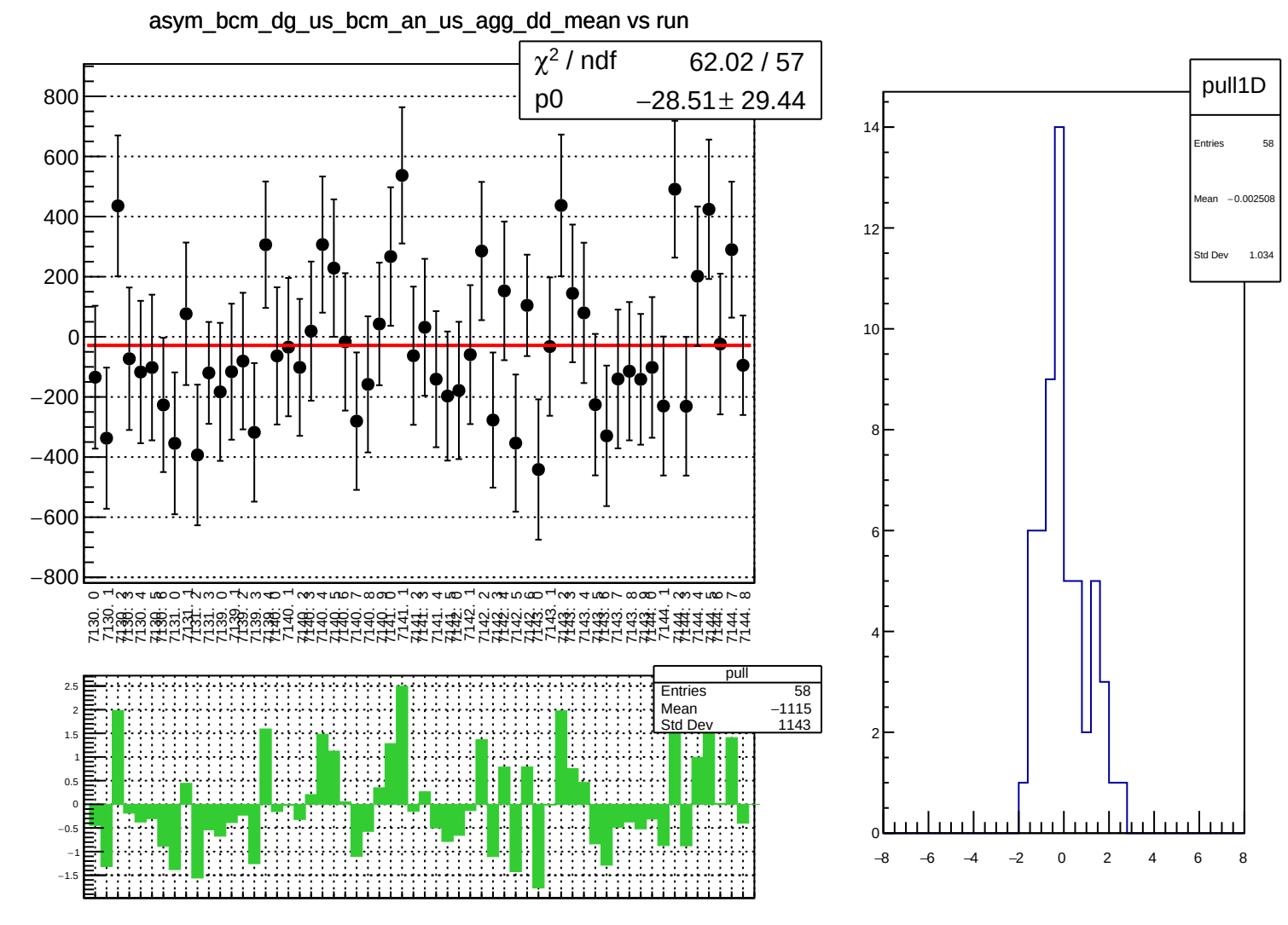

pull1D
Entries 58
Mean 0.001644
Std Dev 0.8741

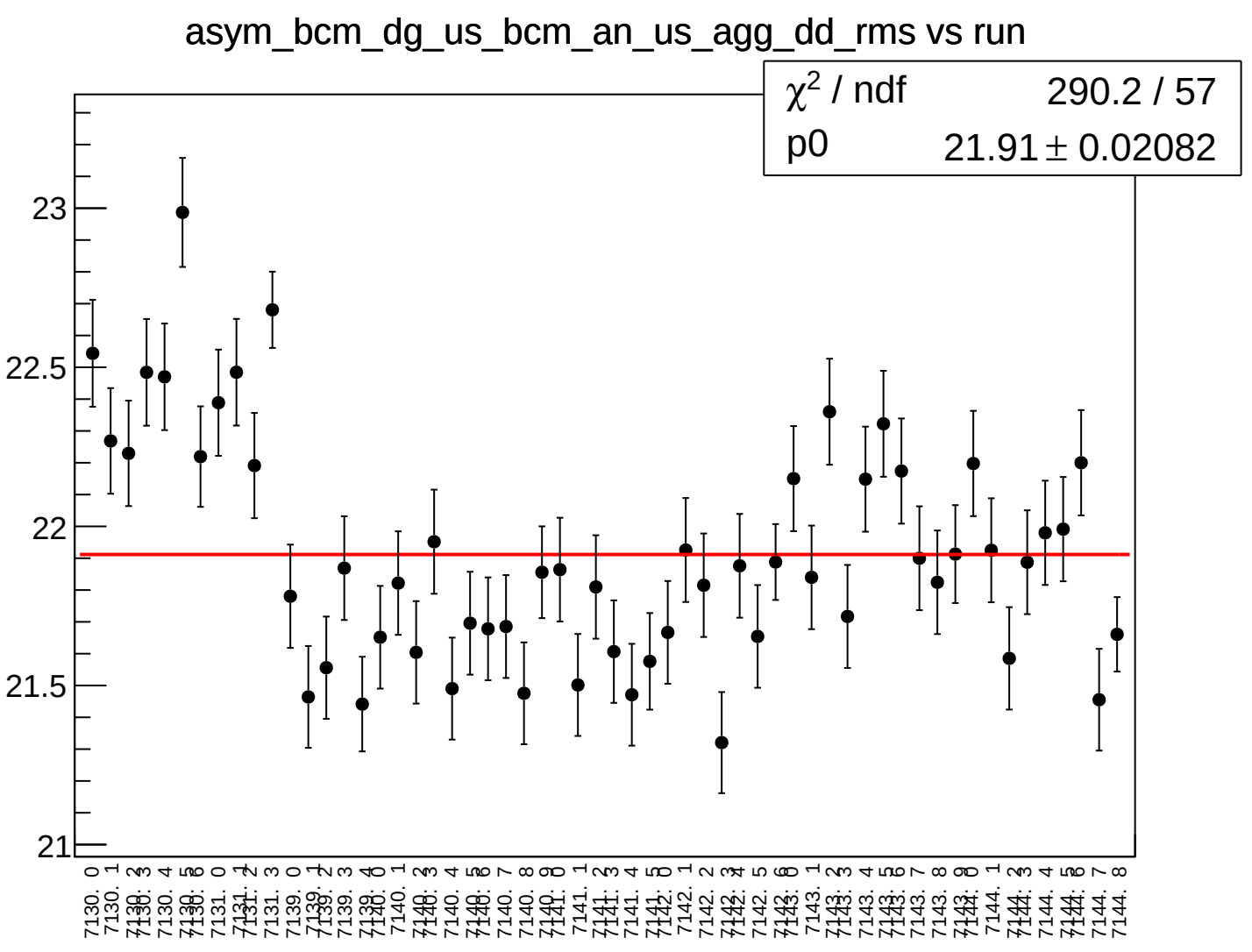

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.375e+04 / 57
p0 17.58 ± 0.01681
21
20
19
18
17
16
15

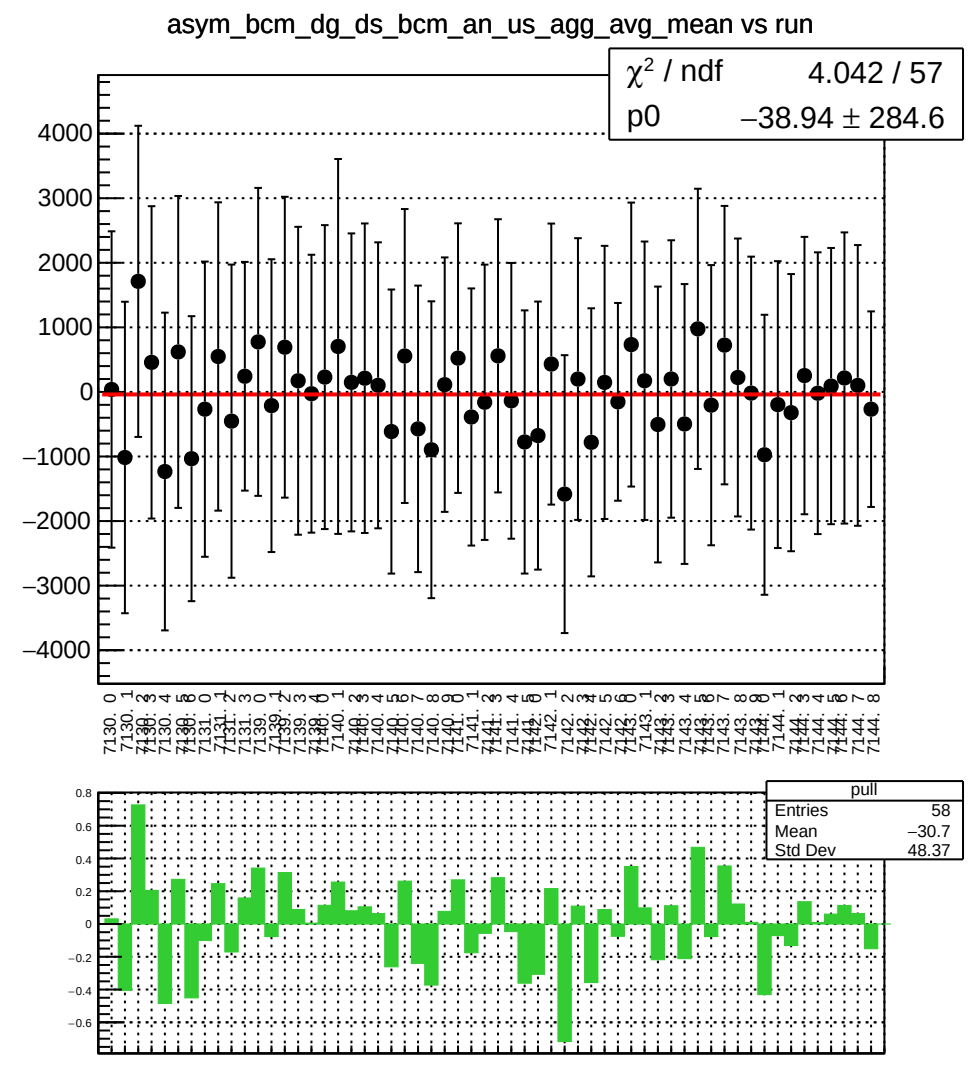

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 4.566 / 57
p0 −66.15 ± 283
pull
Entries 58
Mean 12.75
Std Dev 33.52

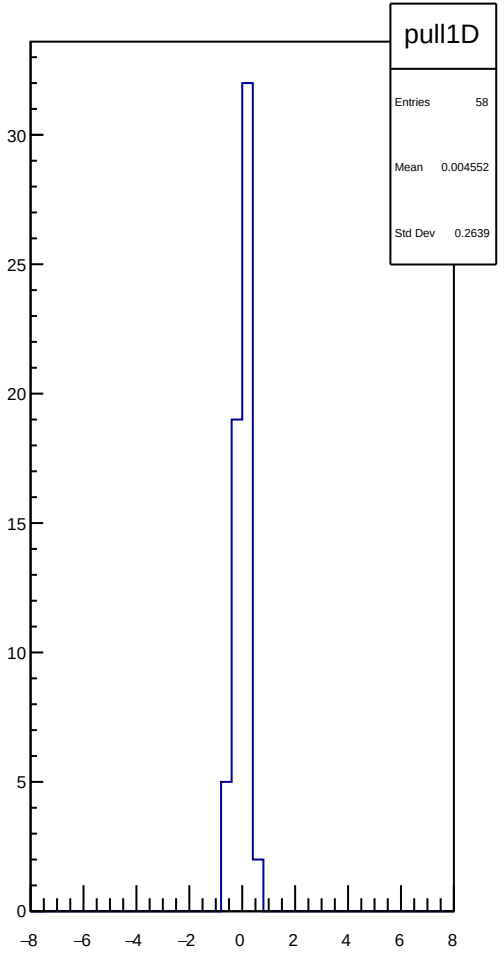

pull1D
Entries 58
Mean 0.003385
Std Dev 0.2806

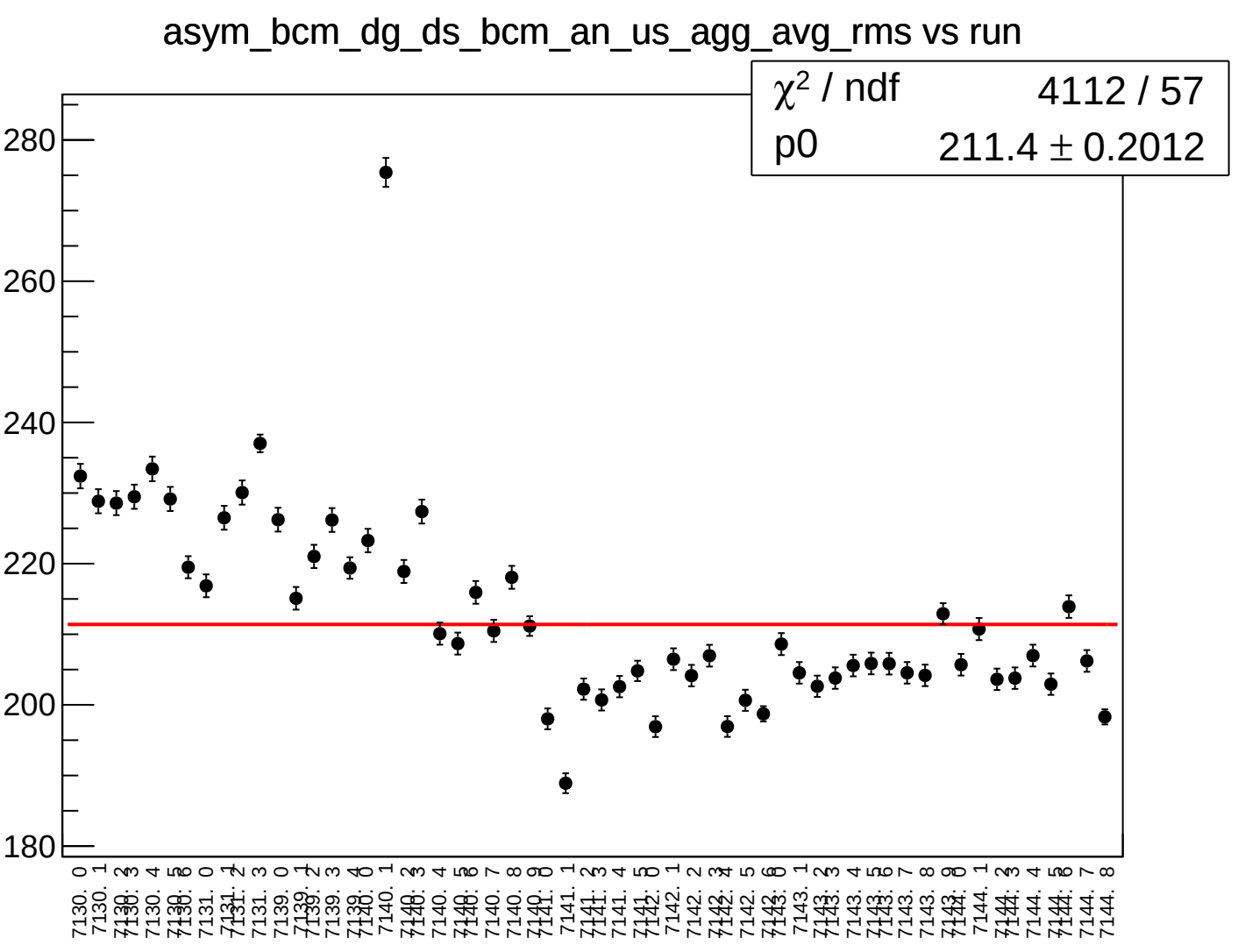

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4291 / 57
p0 210.2 ± 0.2001
280
260
240
220
200
180

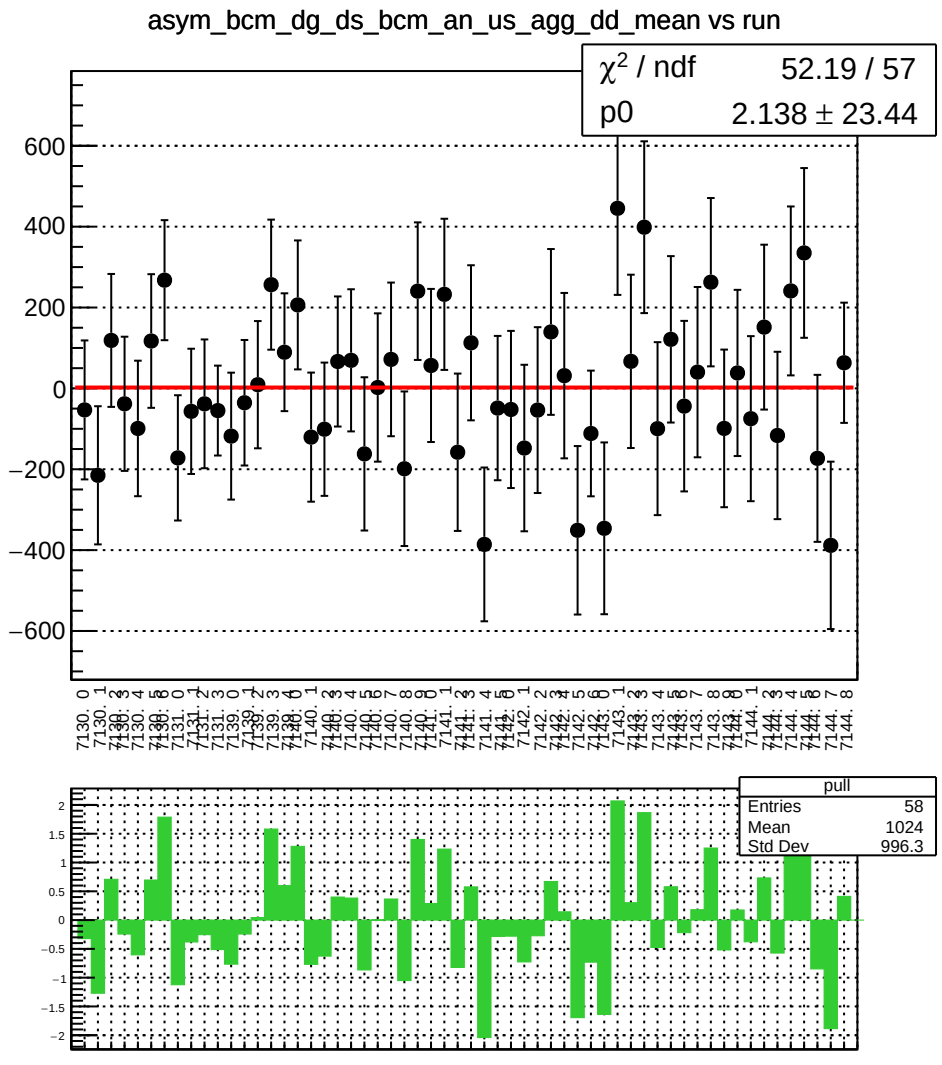

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 62.02 / 57
p0 −28.51 ± 29.44
pull
Entries 58
Mean −1115
Std Dev 1143
pull1D
Entries 58
Mean −0.002508
Std Dev 1.034

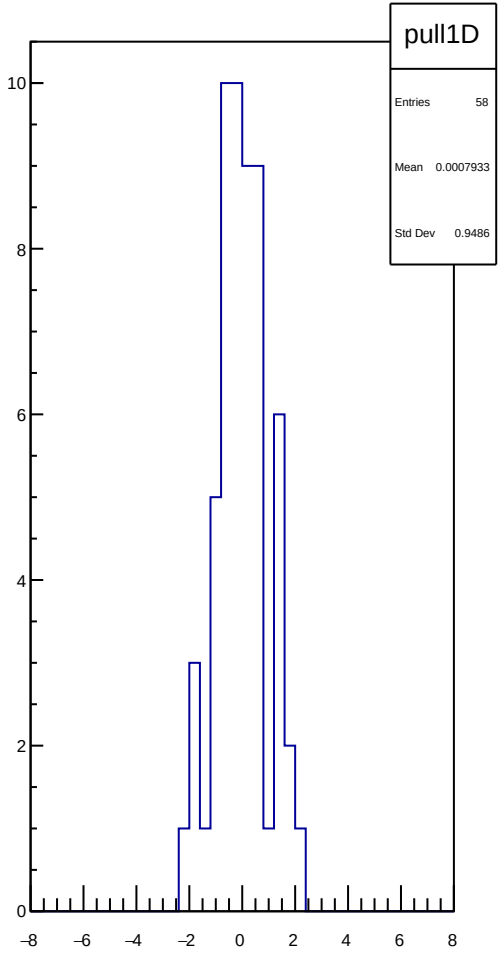

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 290.2 / 57
p0 21.91 ± 0.02082
23
22.5
22
21.5
21

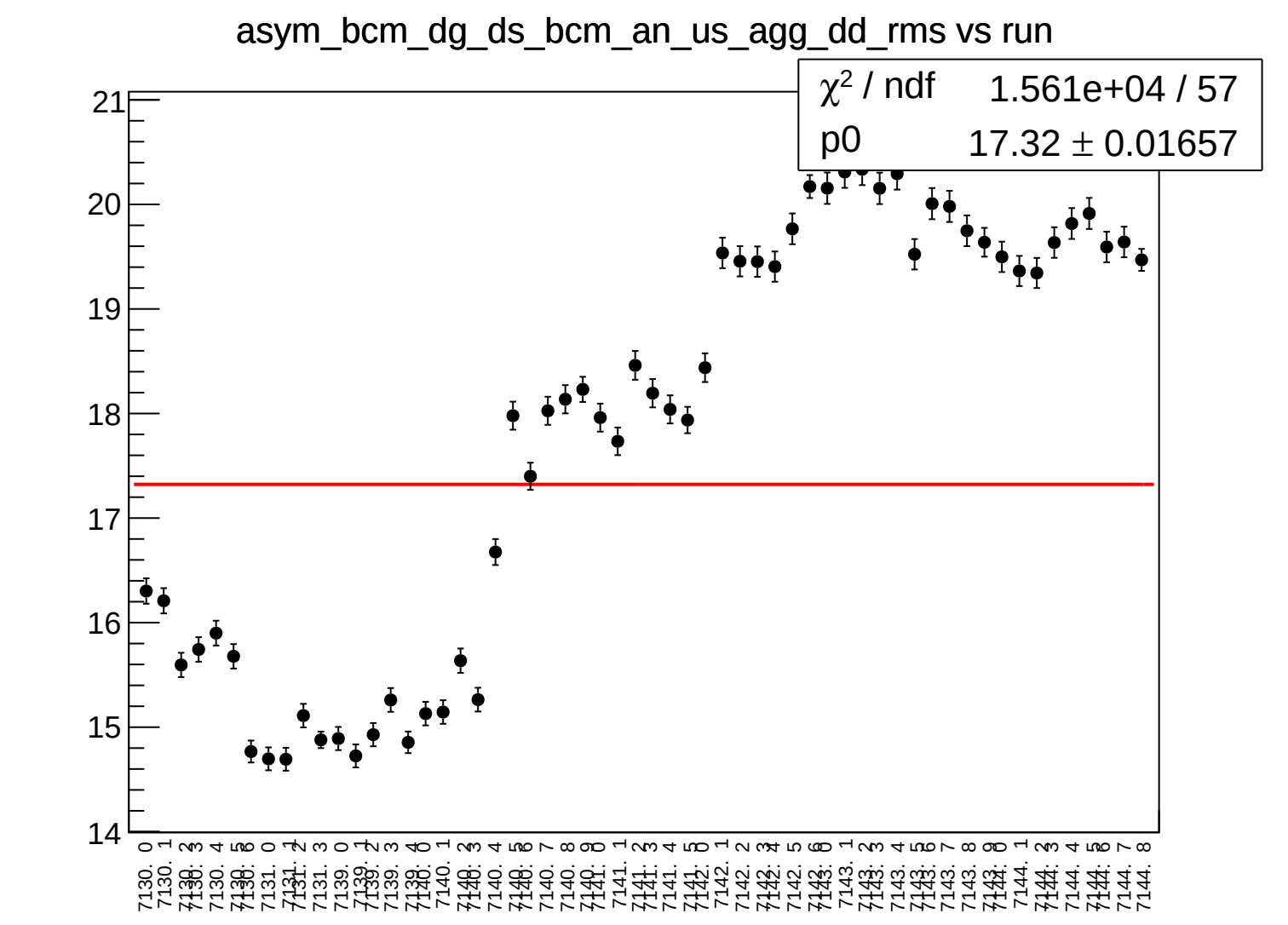

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 4.042 / 57
p0 −38.94 ± 284.6
pull
Entries 58
Mean −30.7
Std Dev 48.37

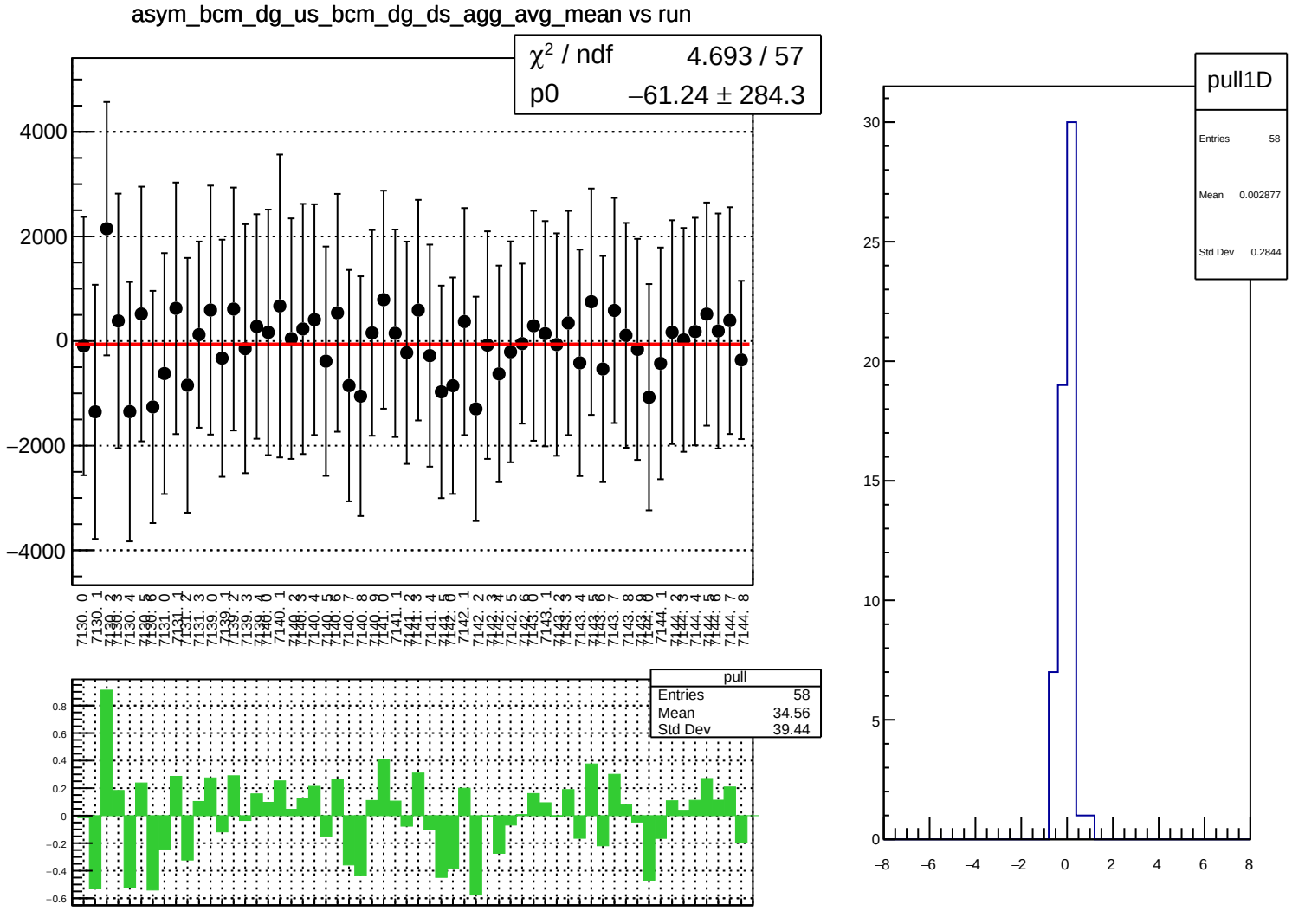

pull1D
Entries 58
Mean 0.004552
Std Dev 0.2639

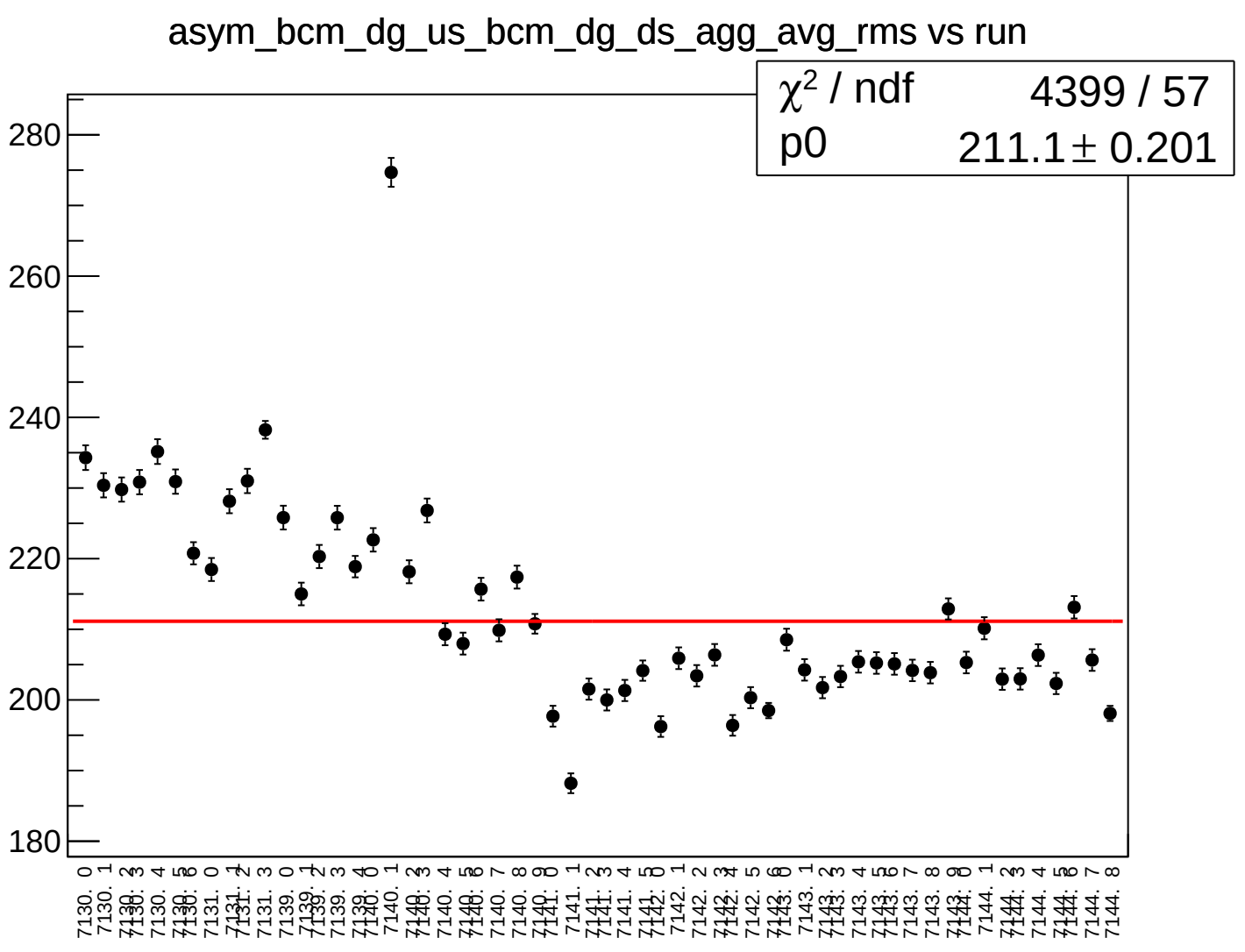

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4112 / 57
p0 211.4 ± 0.2012
280
260
240
220
200
180

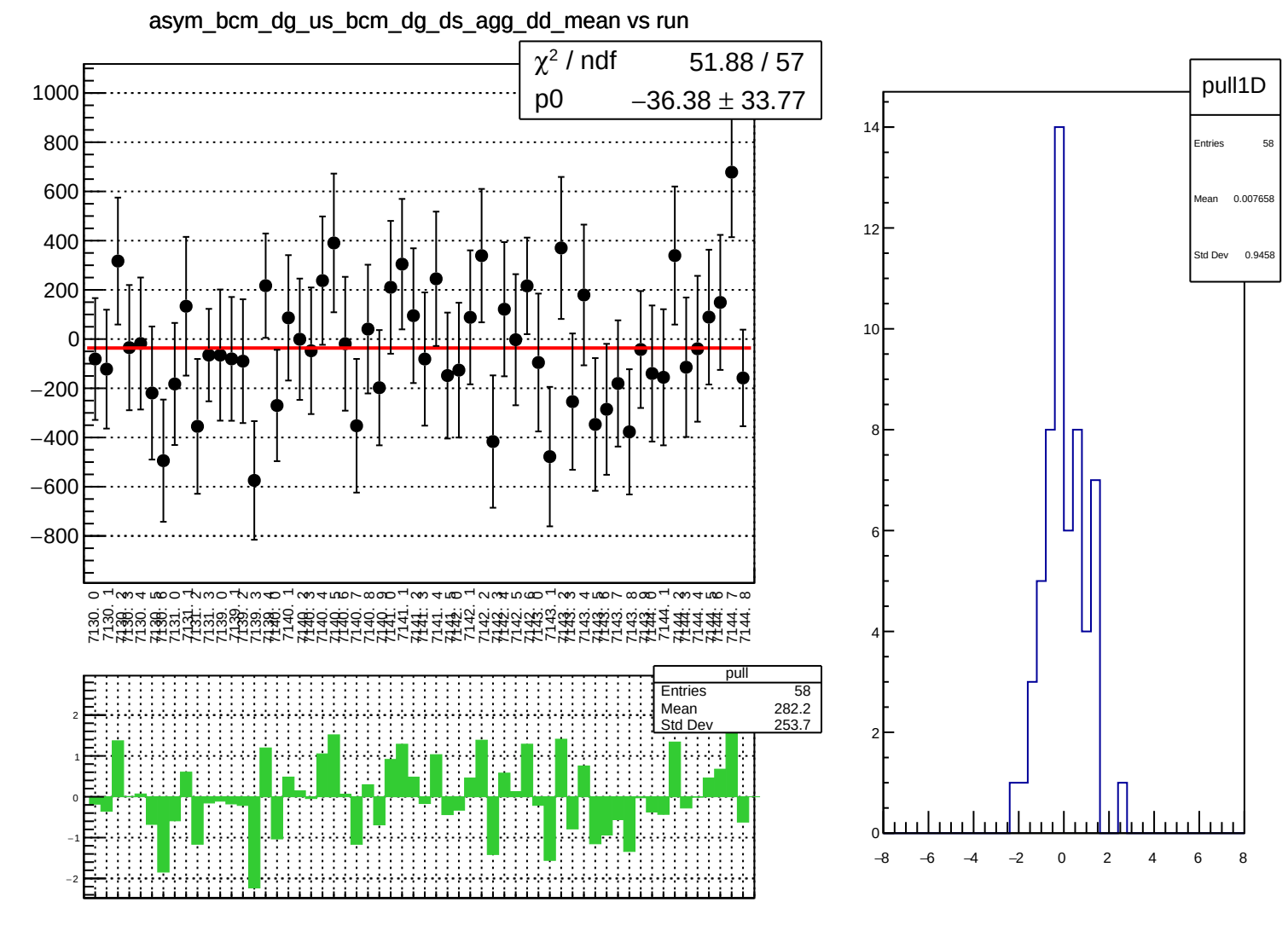

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 52.19 / 57
p0 2.138 ± 23.44
pull
Entries 58
Mean 1024
Std Dev 996.3

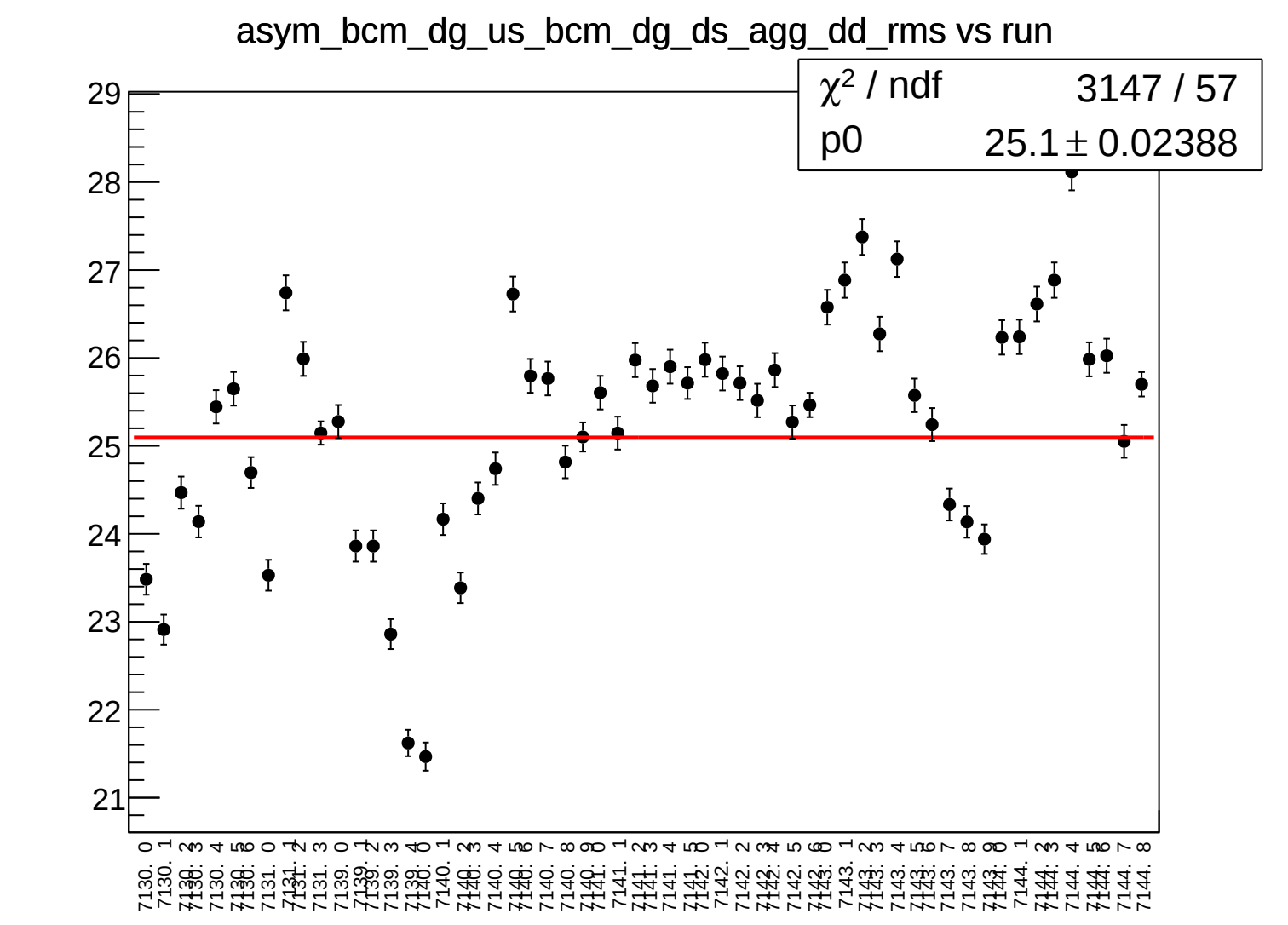

pull1D
Entries 58
Mean 0.0007933
Std Dev 0.9486

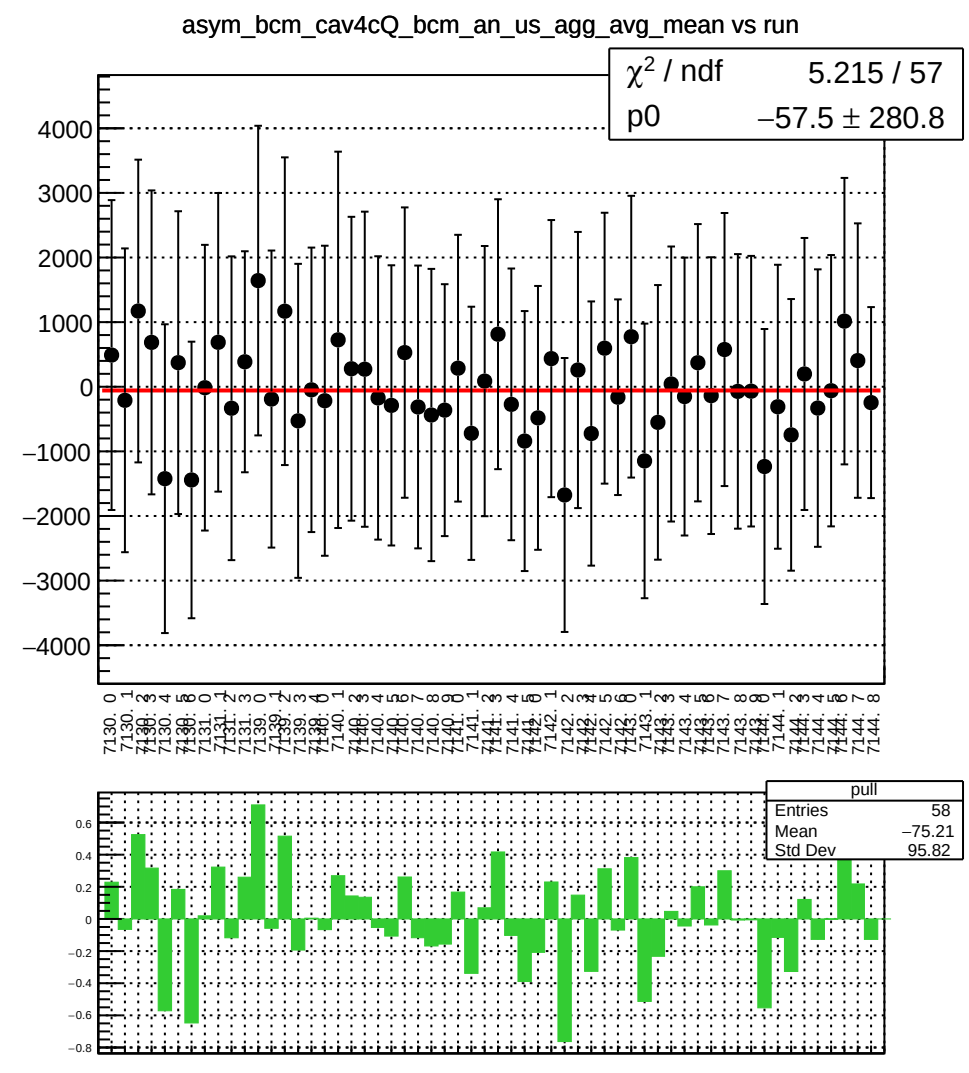

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1.561e+04 / 57
p0 17.32 ± 0.01657
21
20
19
18
17
16
15
14

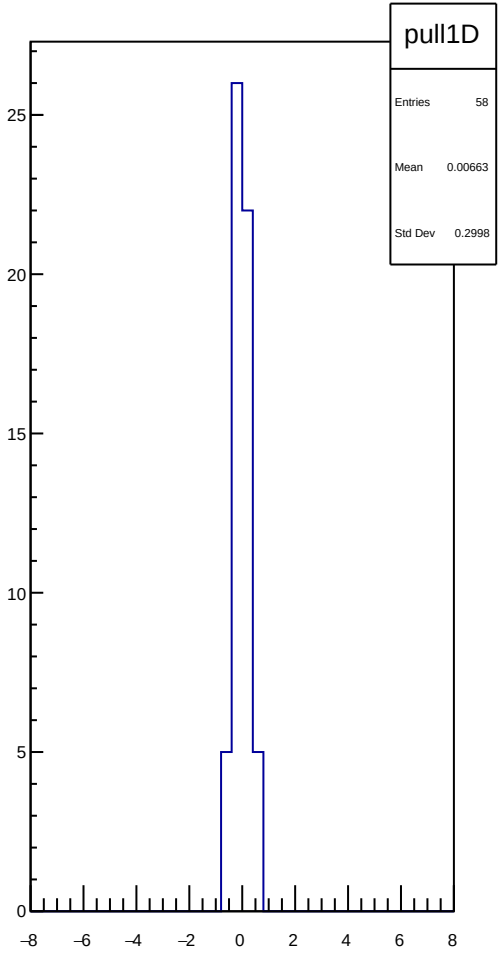

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 4.693 / 57
p0 −61.24 ± 284.3
4000
2000
0
−2000
−4000
pull
Entries 58
Mean 34.56
Std Dev 39.44
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 58
Mean 0.002877
Std Dev 0.2844
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

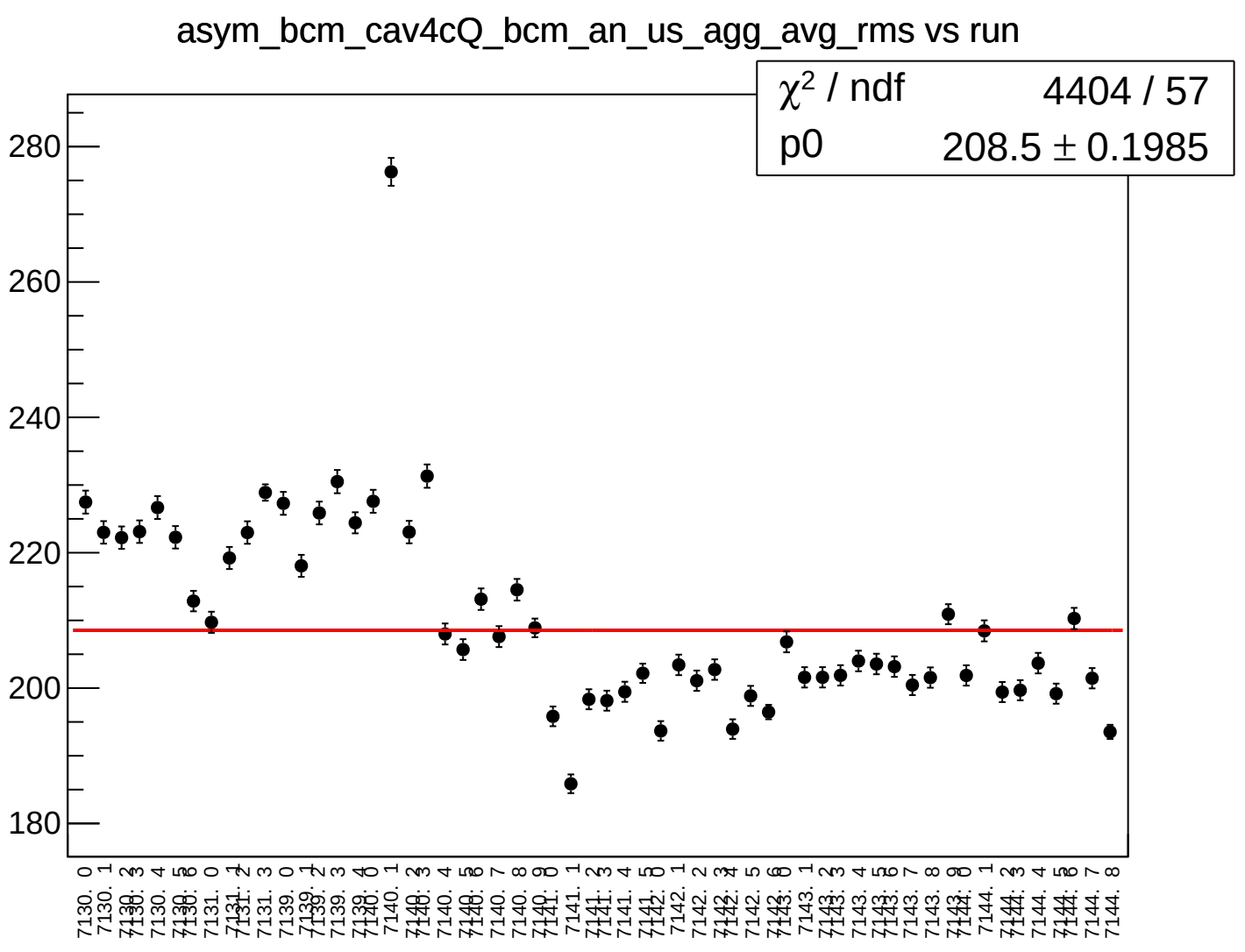

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4399 / 57
p0 211.1 ± 0.201
280
260
240
220
200
180

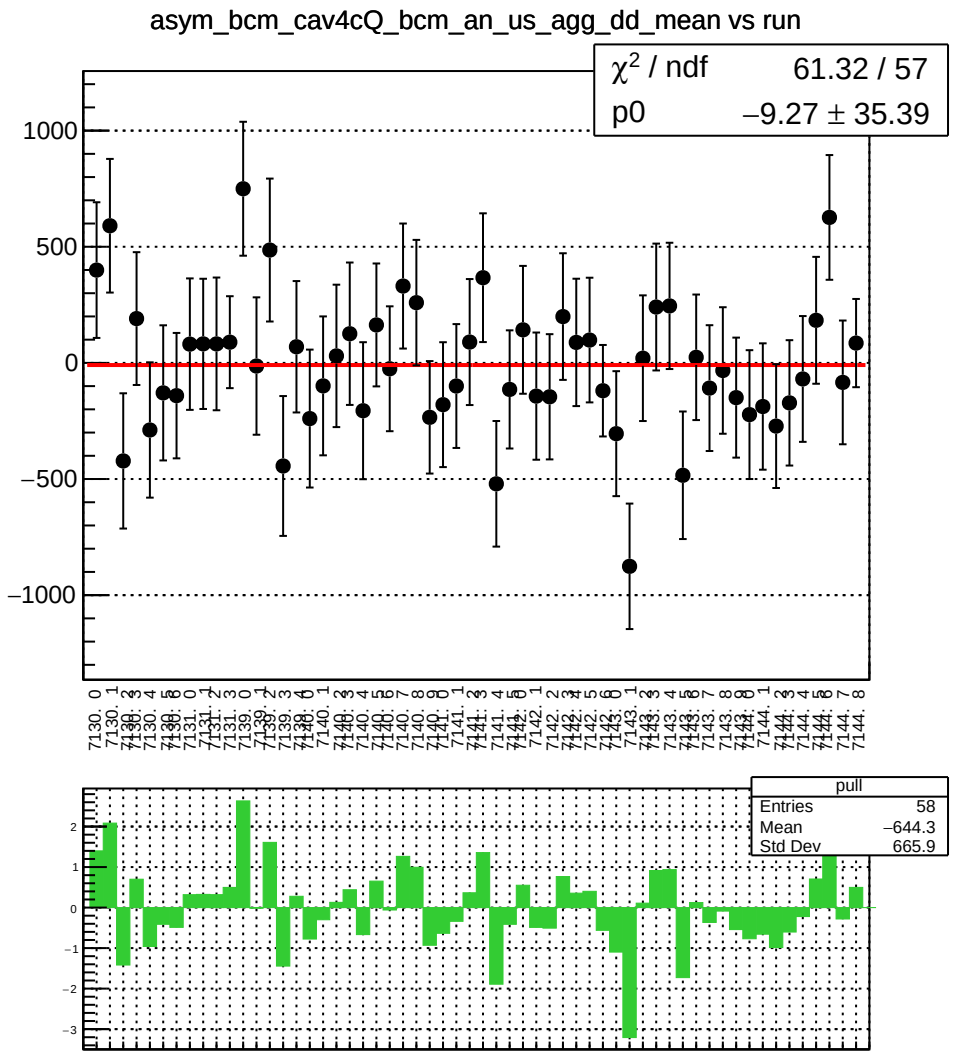

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 51.88 / 57
p0 −36.38 ± 33.77
pull
Entries 58
Mean 282.2
Std Dev 253.7
pull1D
Entries 58
Mean 0.007658
Std Dev 0.9458

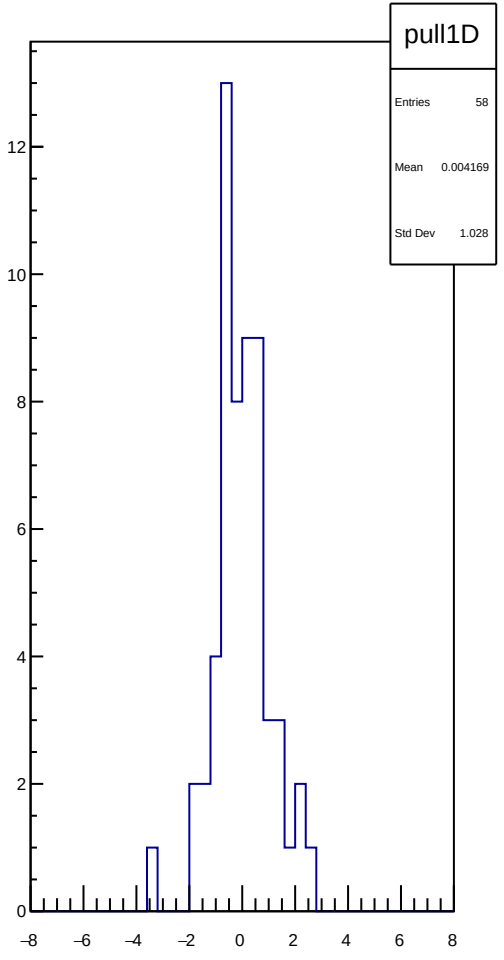

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3147 / 57
p0 25.1 ± 0.02388
29
28
27
26
25
24
23
22
21

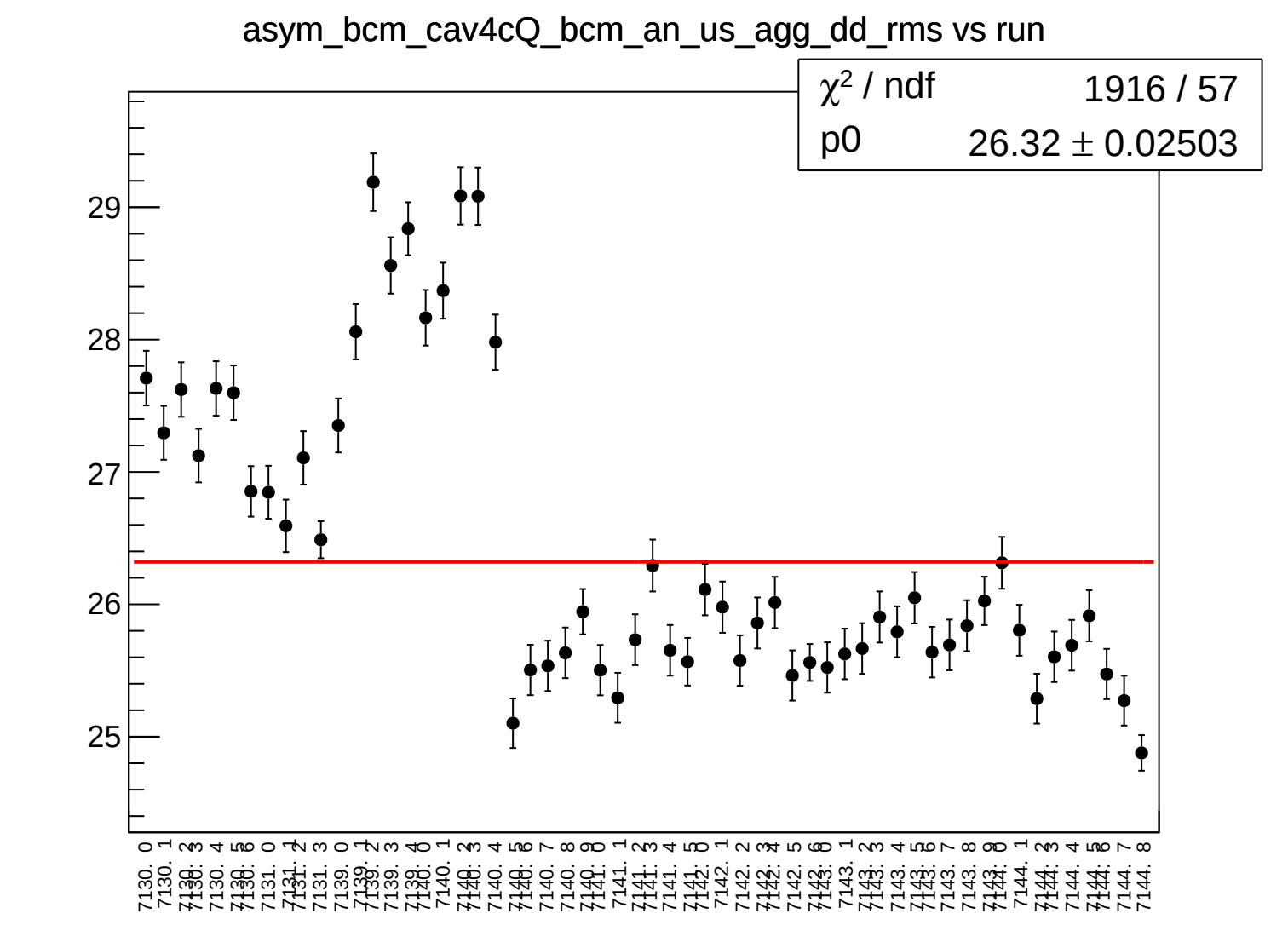

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 5.215 / 57
p0 −57.5 ± 280.8
pull
Entries 58
Mean −75.21
Std Dev 95.82

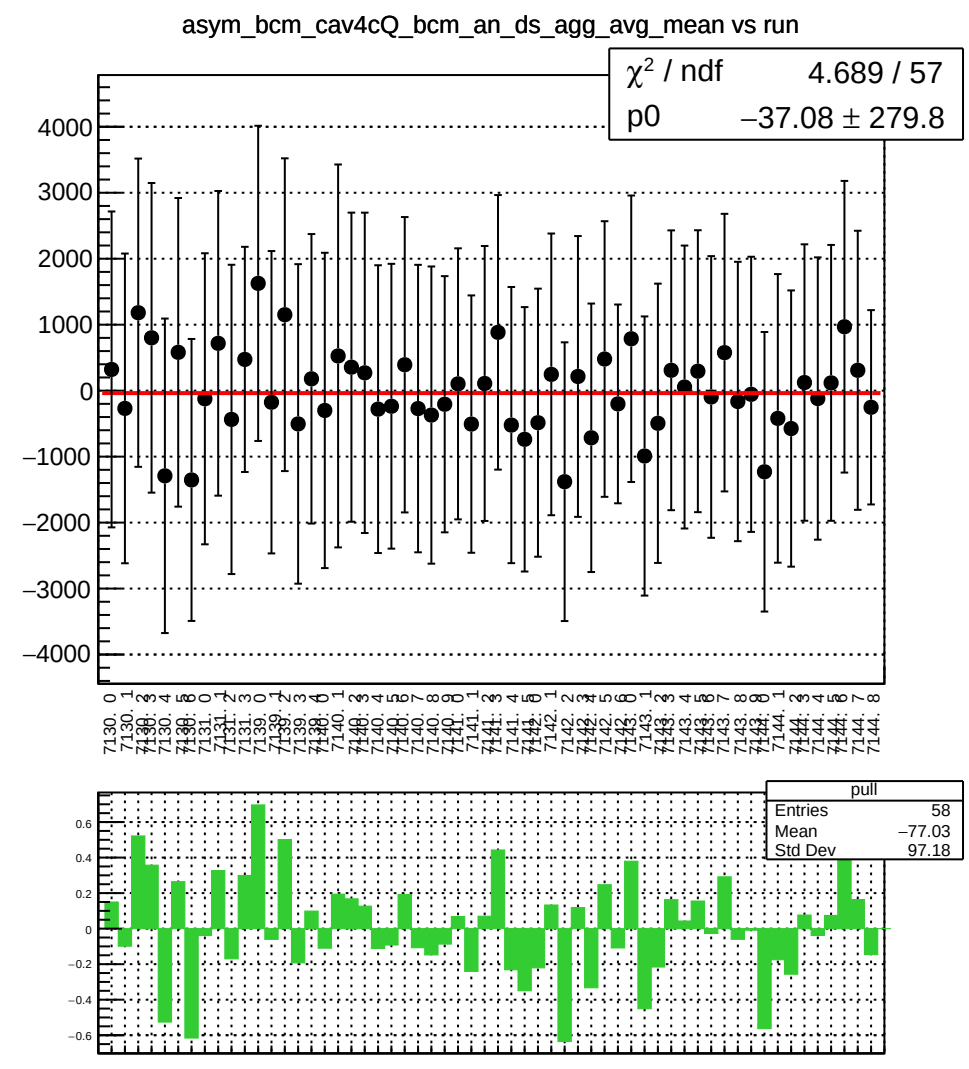

pull1D
Entries 58
Mean 0.00663
Std Dev 0.2998

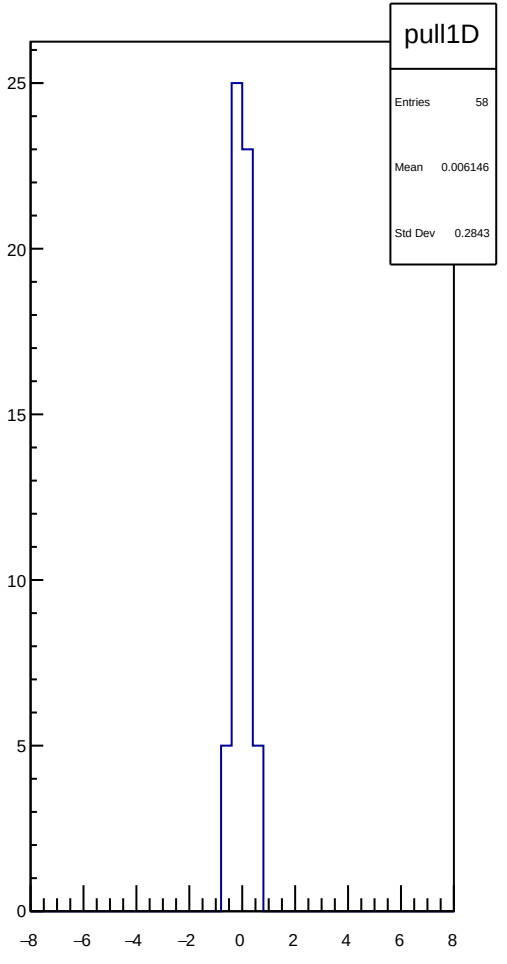

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4404 / 57
p0 208.5 ± 0.1985
280
260
240
220
200
180

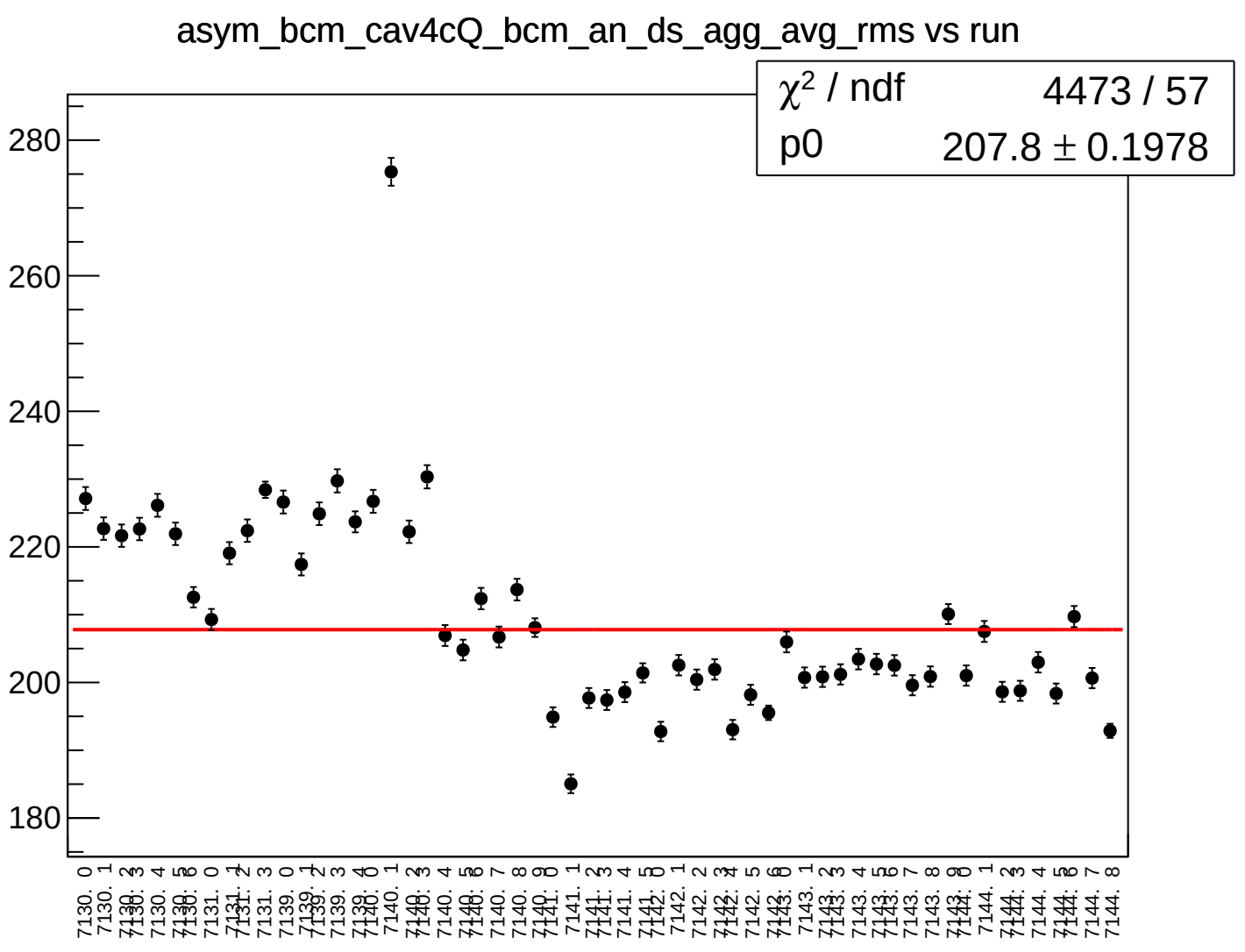

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 61.32 / 57
p0 −9.27 ± 35.39
1000
500
0
−500
−1000
pull
Entries 58
Mean −644.3
Std Dev 665.9
2
1
0
−1
−2
−3

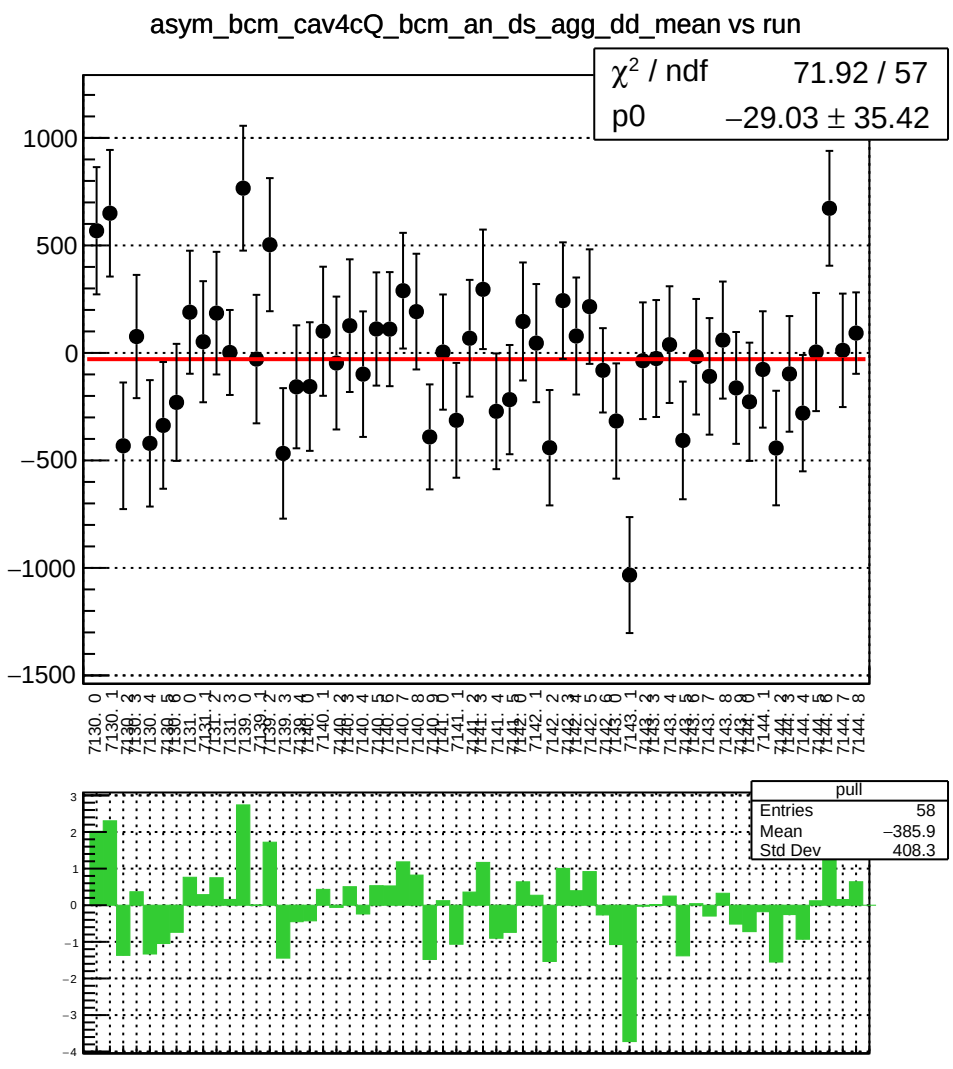

pull1D
Entries 58
Mean 0.004169
Std Dev 1.028
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

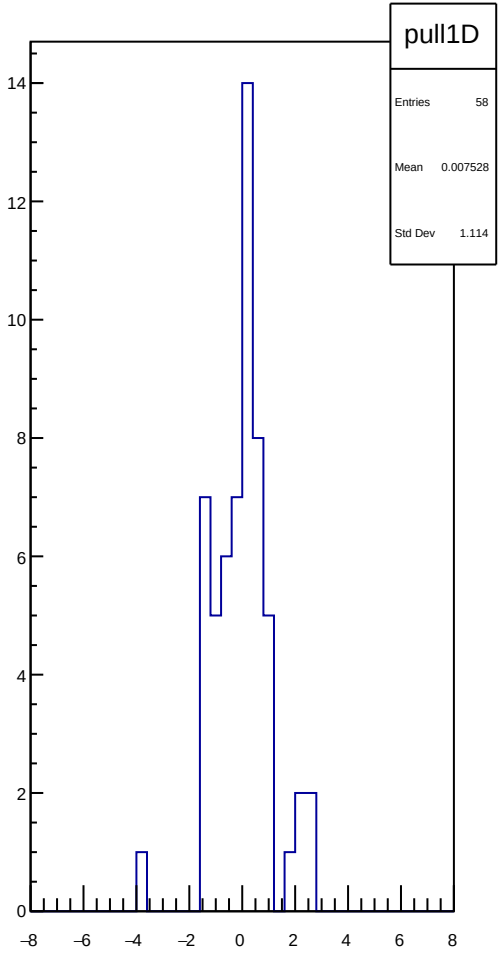

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1916 / 57
p0 26.32 ± 0.02503
29
28
27
26
25

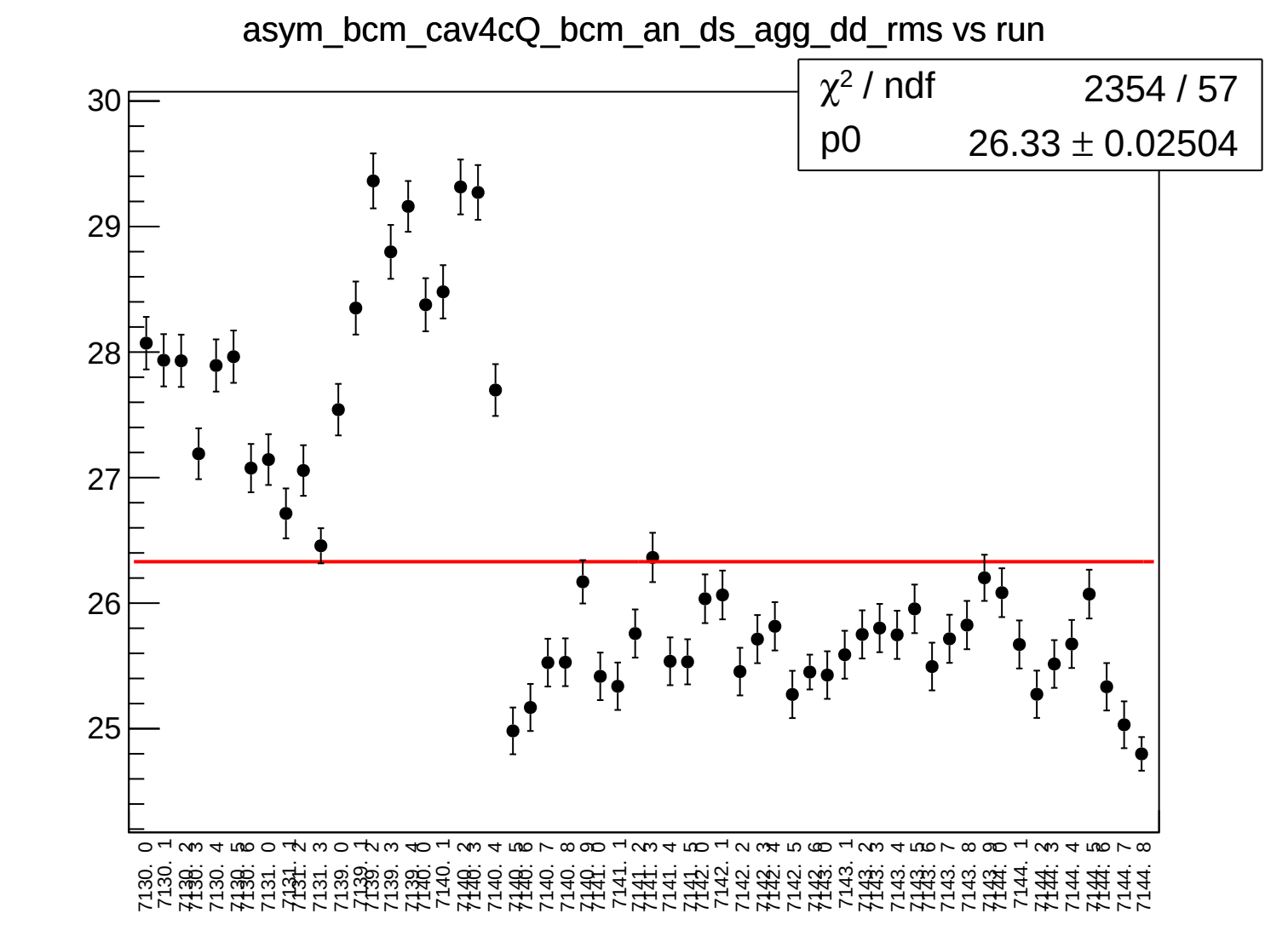

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 4.689 / 57
p0 −37.08 ± 279.8
pull
Entries 58
Mean −77.03
Std Dev 97.18

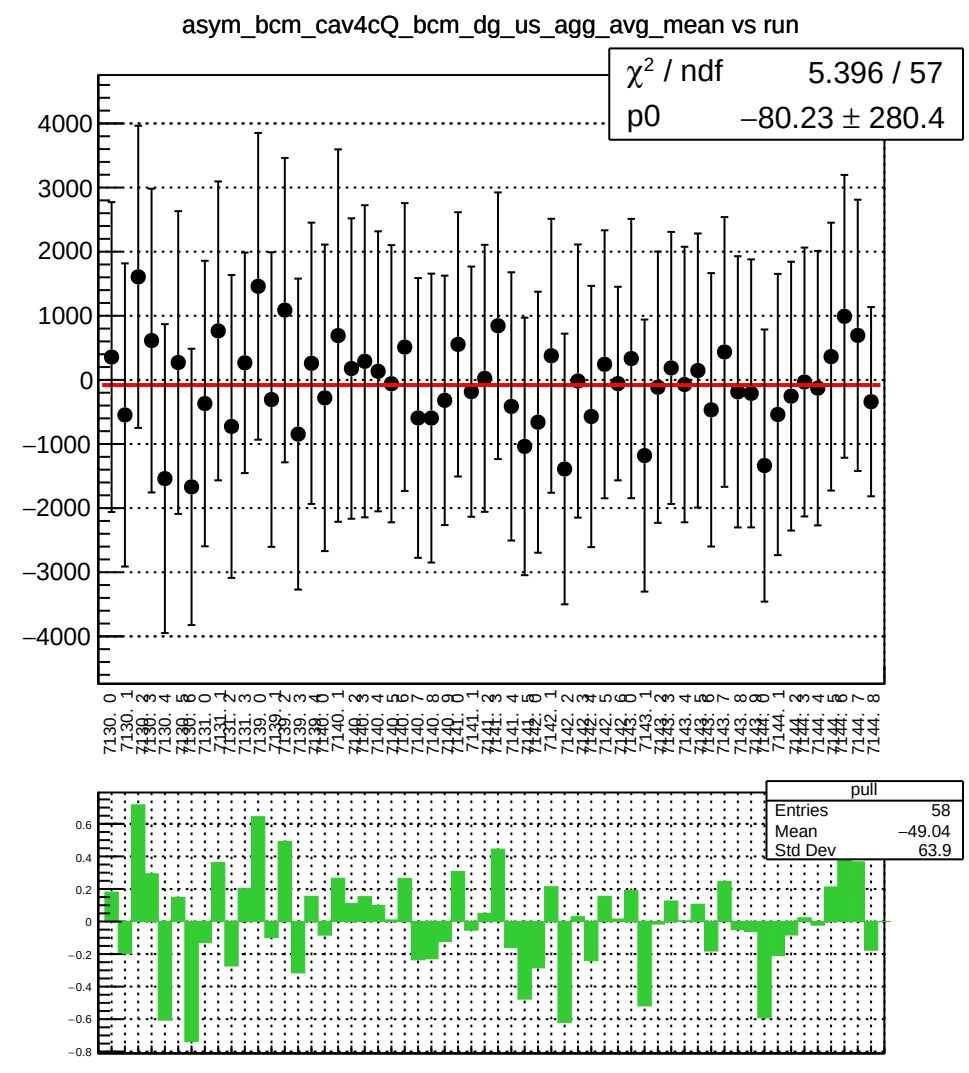

pull1D
Entries 58
Mean 0.006146
Std Dev 0.2843

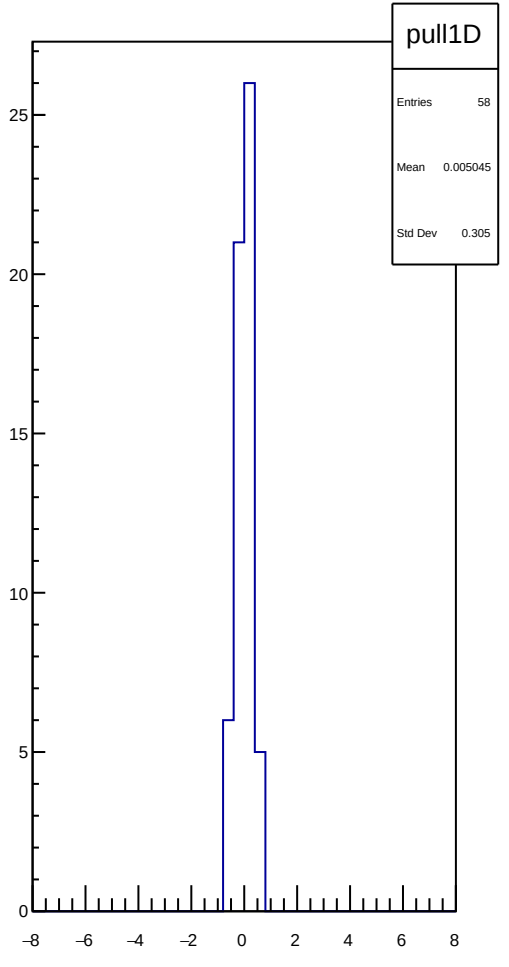

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4473 / 57
p0 207.8 ± 0.1978
280
260
240
220
200
180

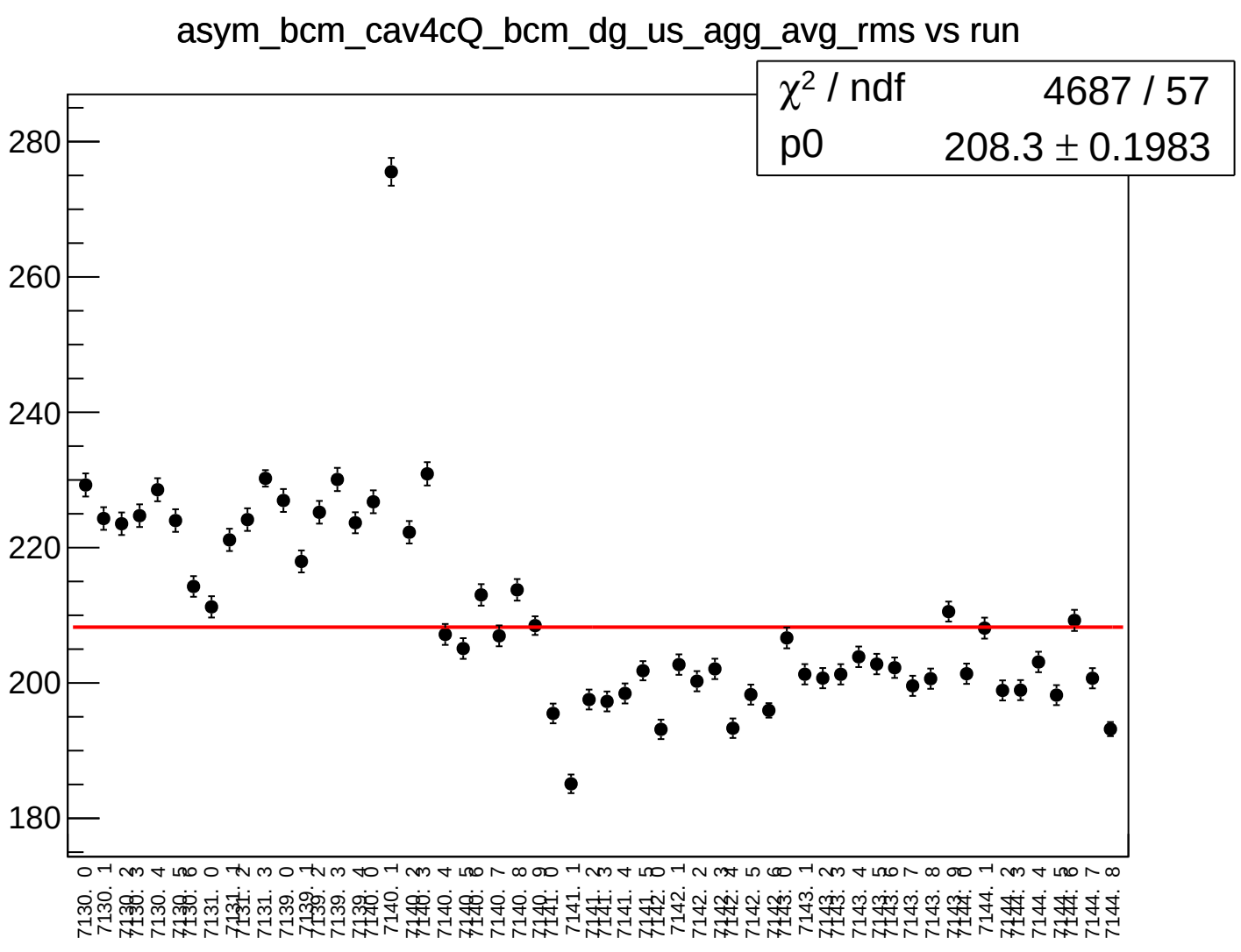

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 71.92 / 57
p0 −29.03 ± 35.42
pull
Entries 58
Mean −385.9
Std Dev 408.3

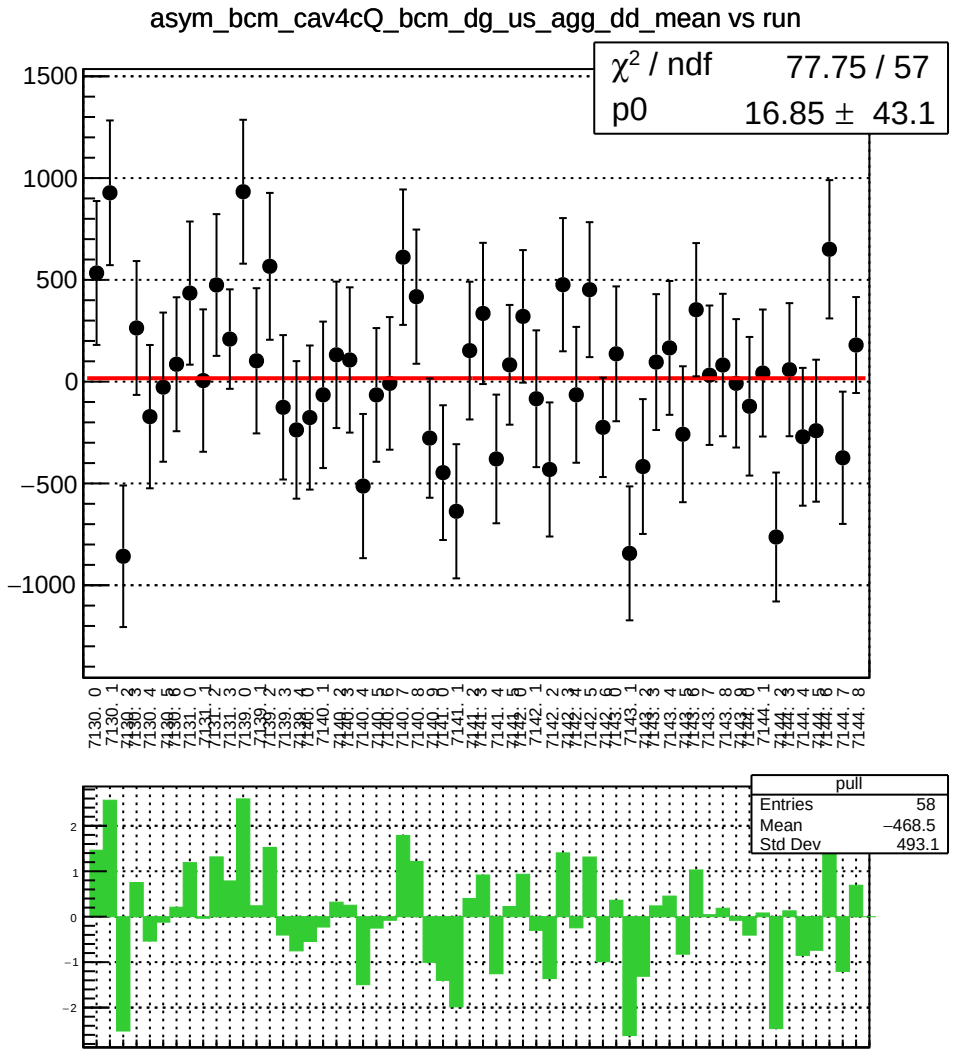

pull1D
Entries 58
Mean 0.007528
Std Dev 1.114

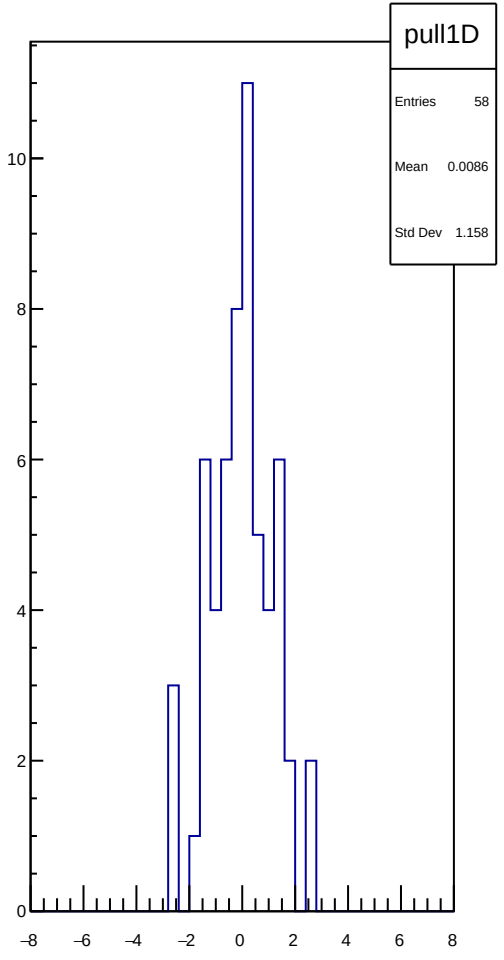

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2354 / 57
p0 26.33 ± 0.02504
30
29
28
27
26
25

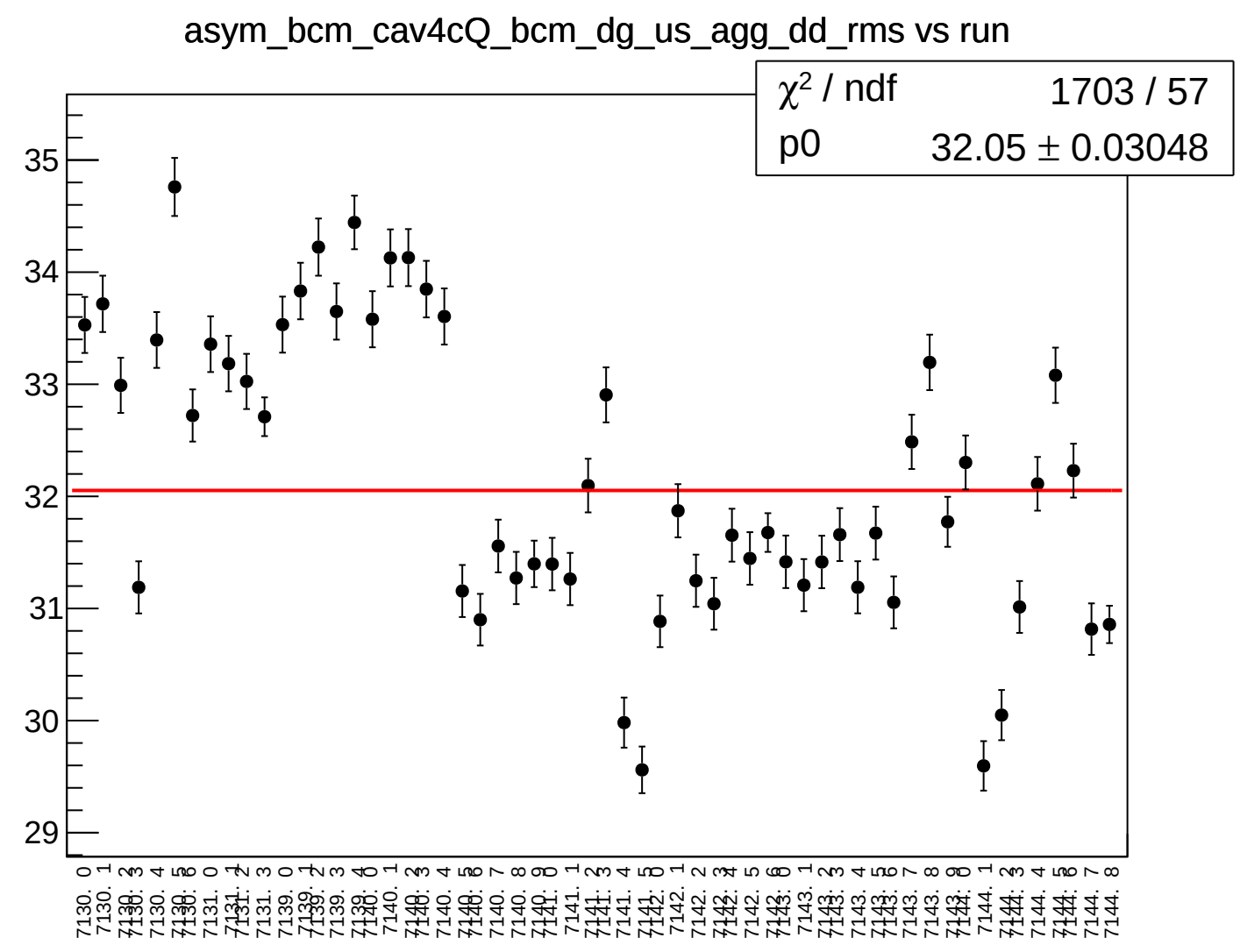

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 5.396 / 57
p0 −80.23 ± 280.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 58
Mean −49.04
Std Dev 63.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

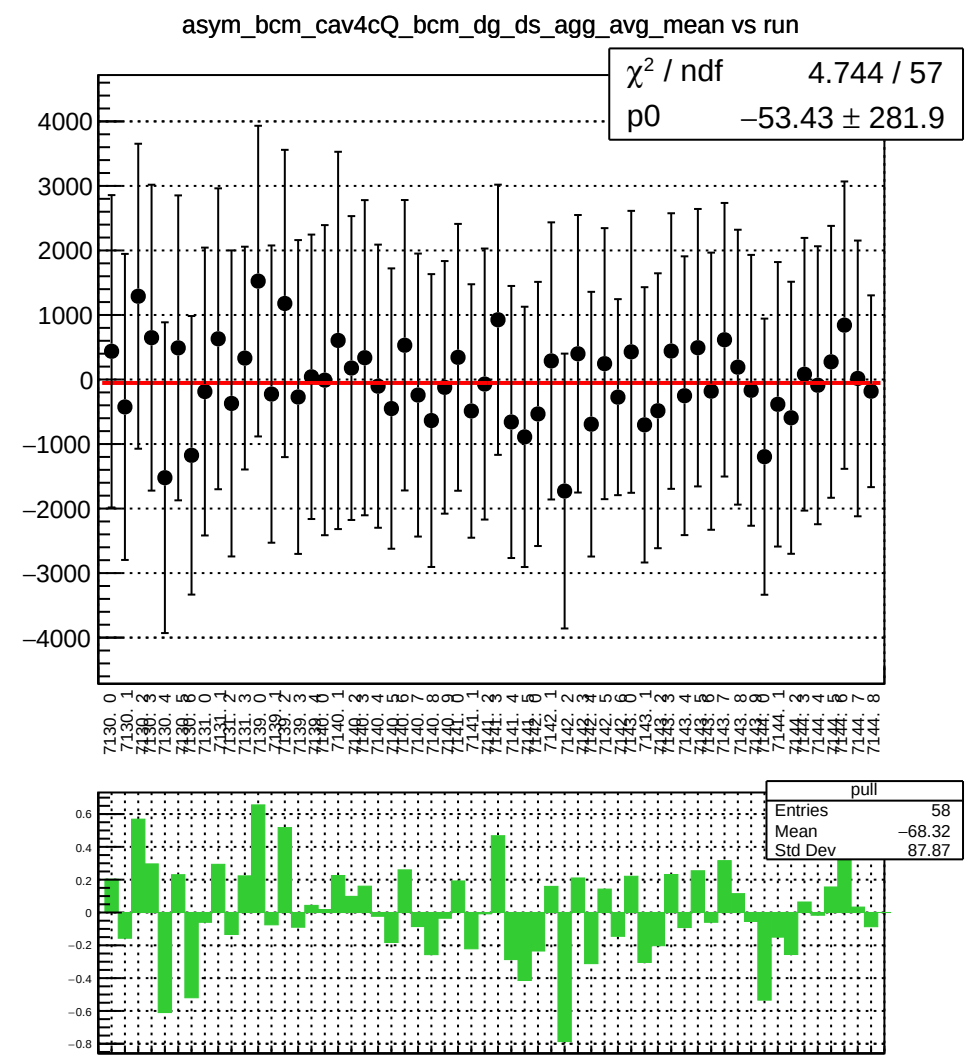

pull1D
Entries 58
Mean 0.005045
Std Dev 0.305
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

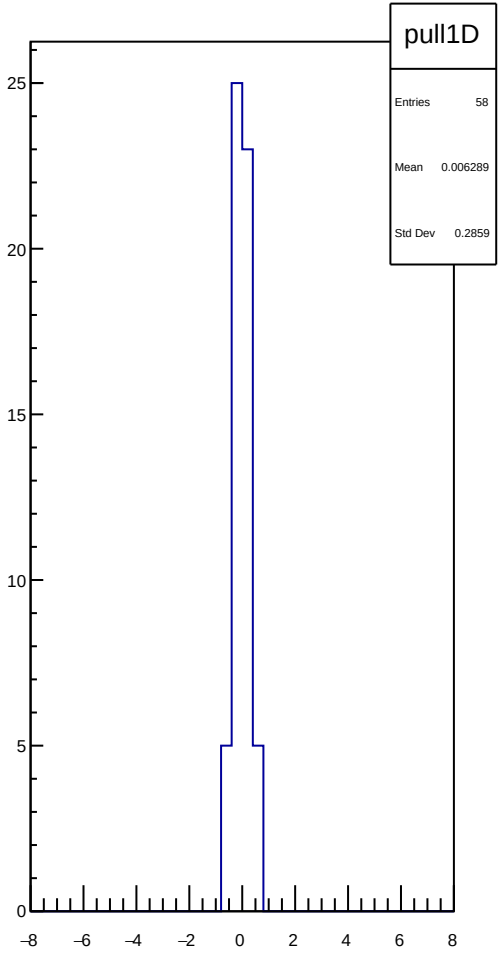

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 4687 / 57
p0 208.3 ± 0.1983
280
260
240
220
200
180

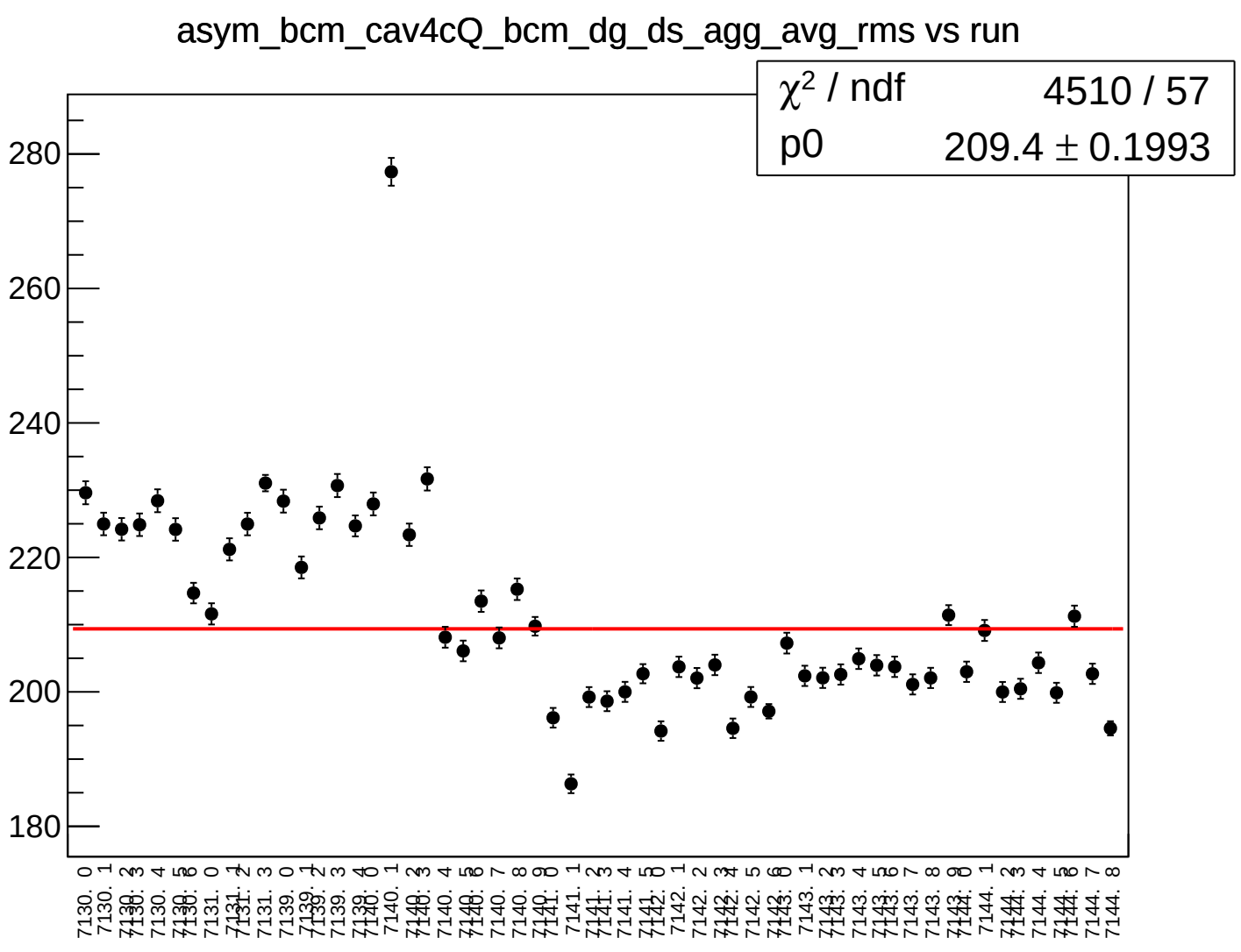

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 77.75 / 57
p0 16.85 ± 43.1
1500
1000
500
0
−500
−1000
pull
Entries 58
Mean −468.5
Std Dev 493.1
2
1
0
−1
−2

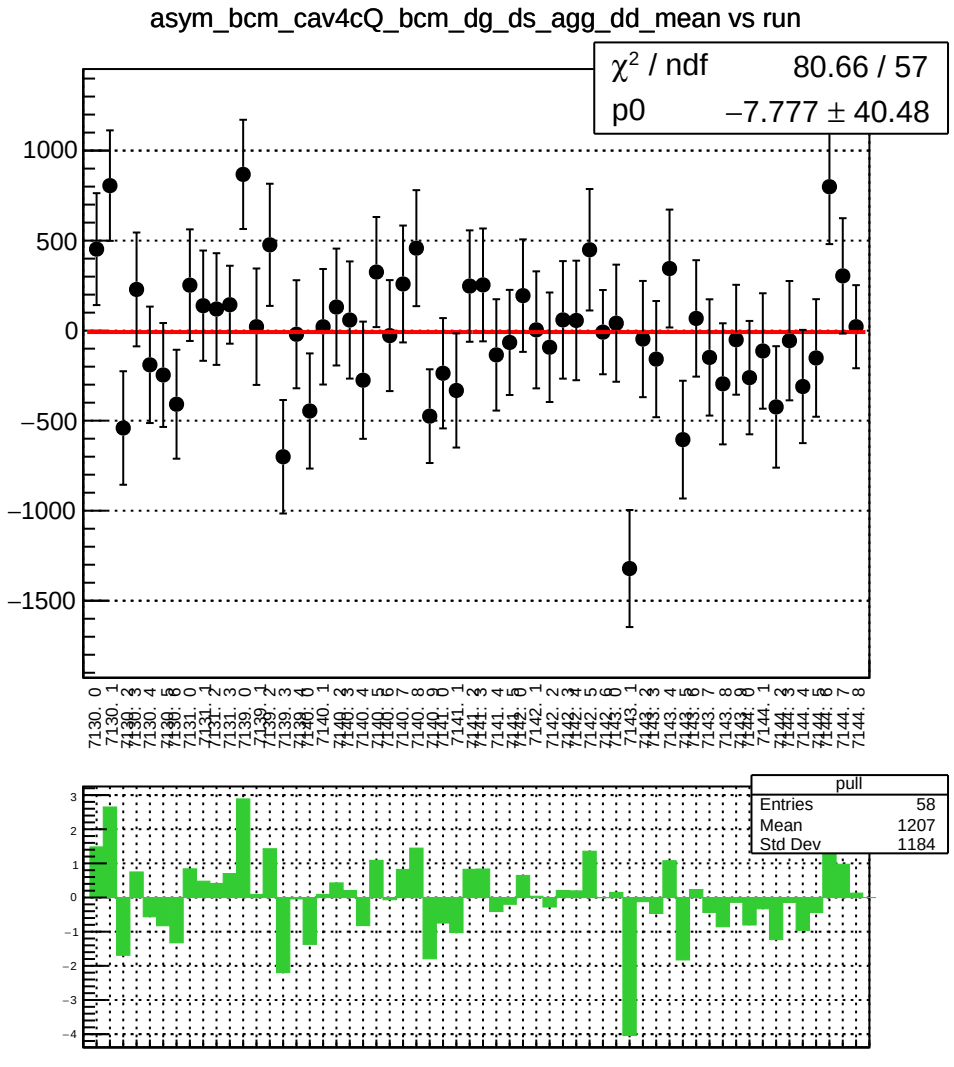

pull1D
Entries 58
Mean 0.0086
Std Dev 1.158
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

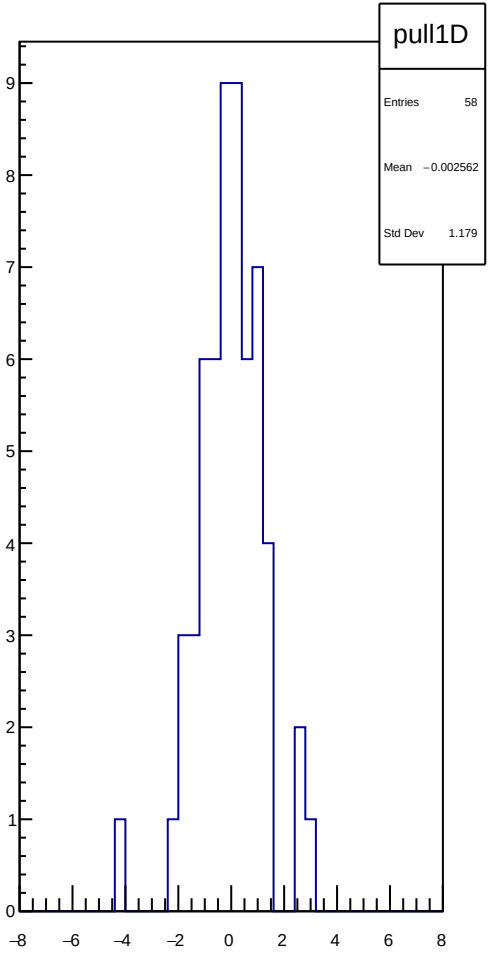

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1703 / 57
p0 32.05 ± 0.03048
35
34
33
32
31
30
29

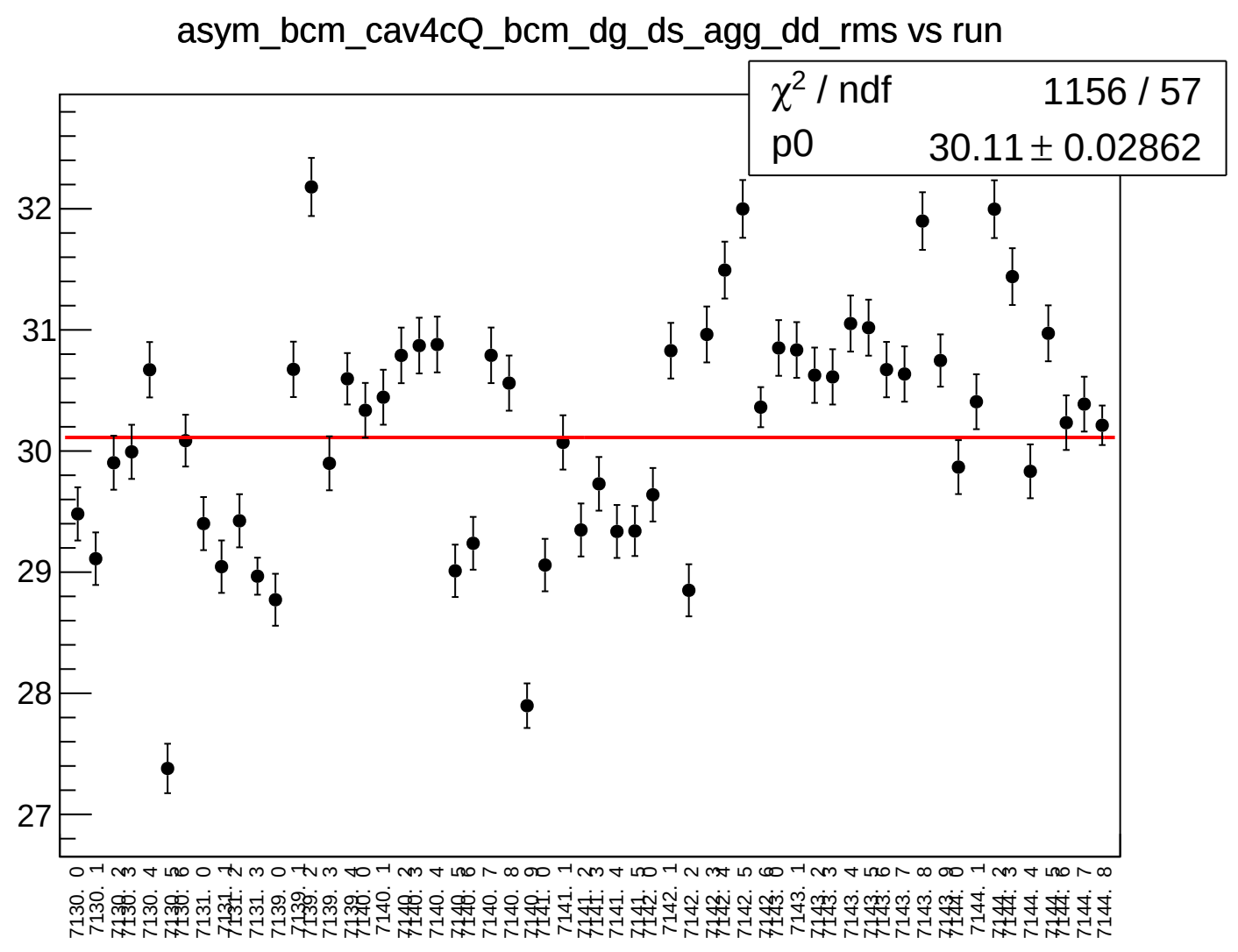

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 4.744 / 57
p0 −53.43 ± 281.9
pull
Entries 58
Mean −68.32
Std Dev 87.87

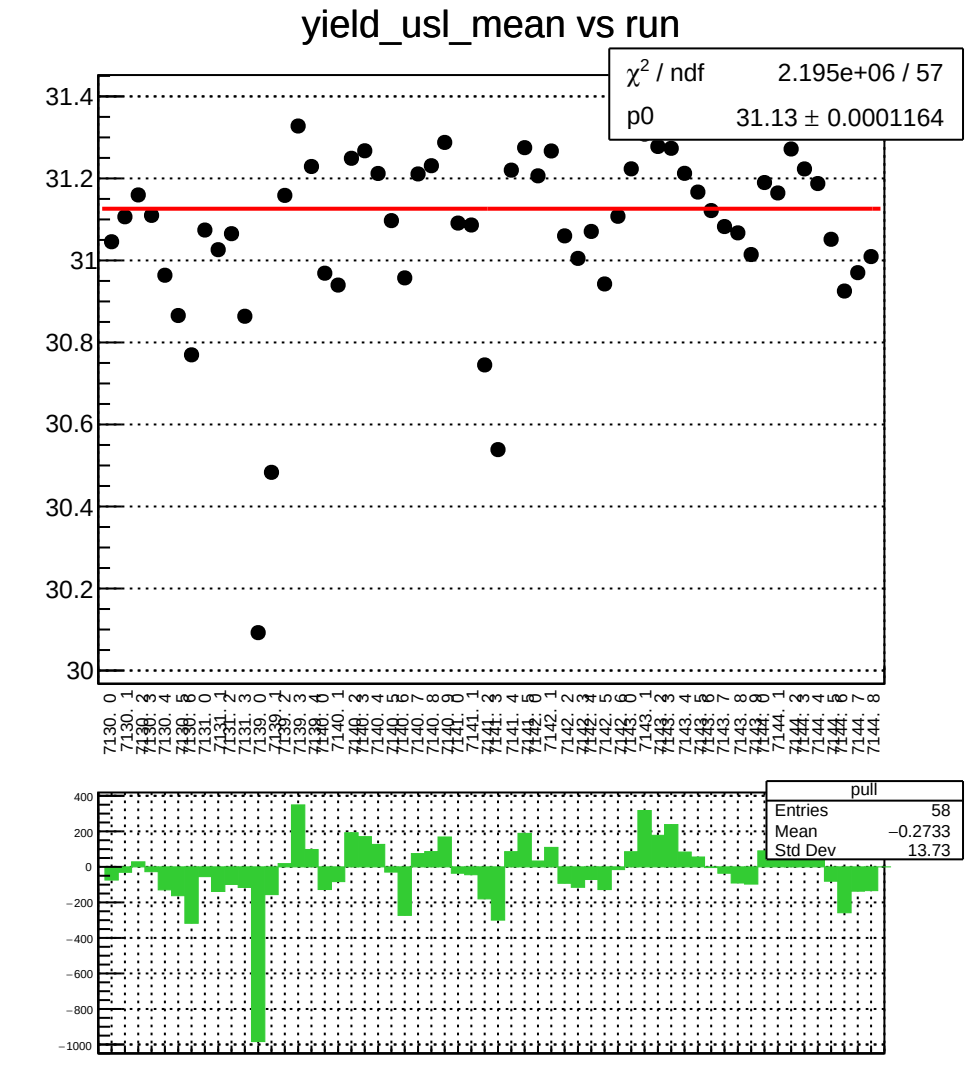

pull1D
Entries 58
Mean 0.006289
Std Dev 0.2859

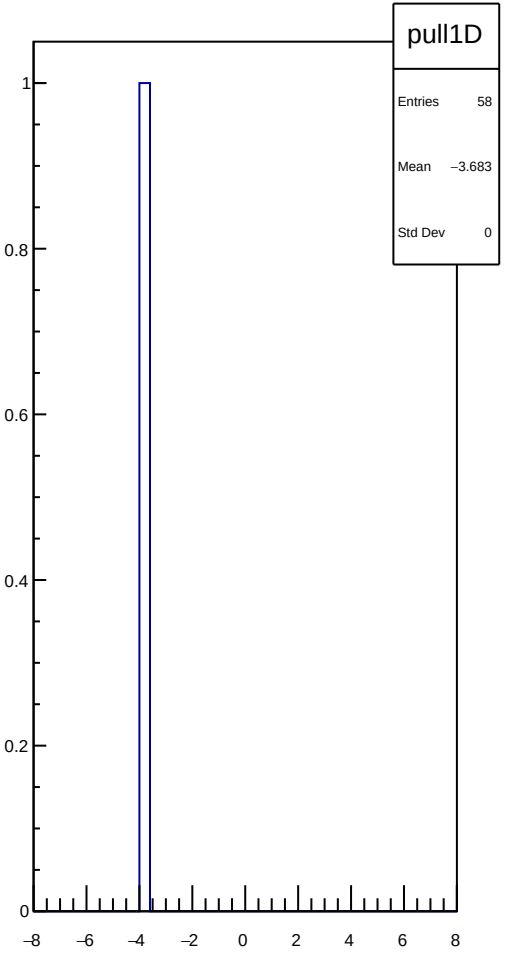

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4510 / 57
p0 209.4 ± 0.1993
280
260
240
220
200
180

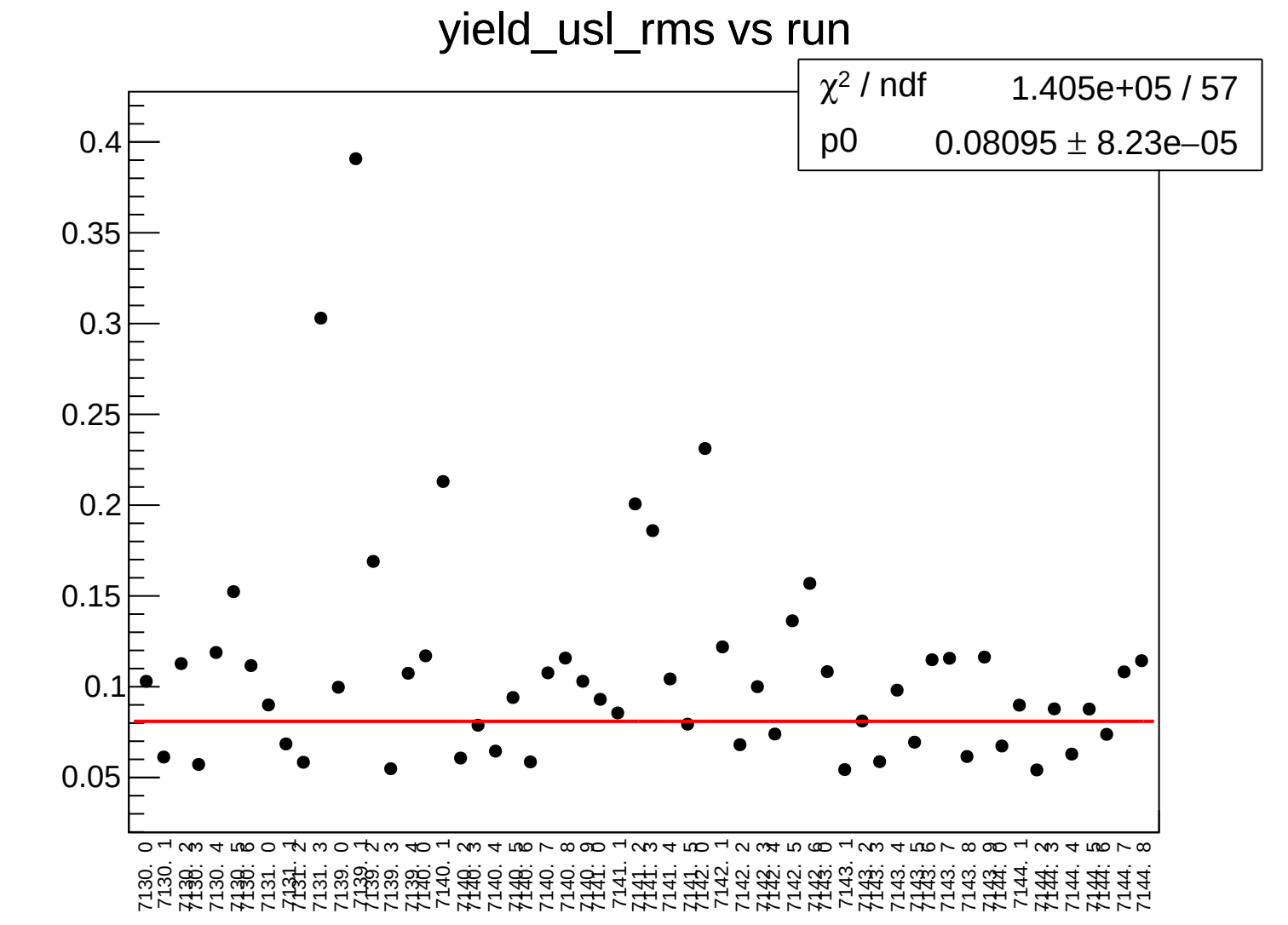

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 80.66 / 57
p0 −7.777 ± 40.48
1000
500
0
−500
−1000
−1500
pull
Entries 58
Mean 1207
Std Dev 1184
3
2
1
0
−1
−2
−3
−4

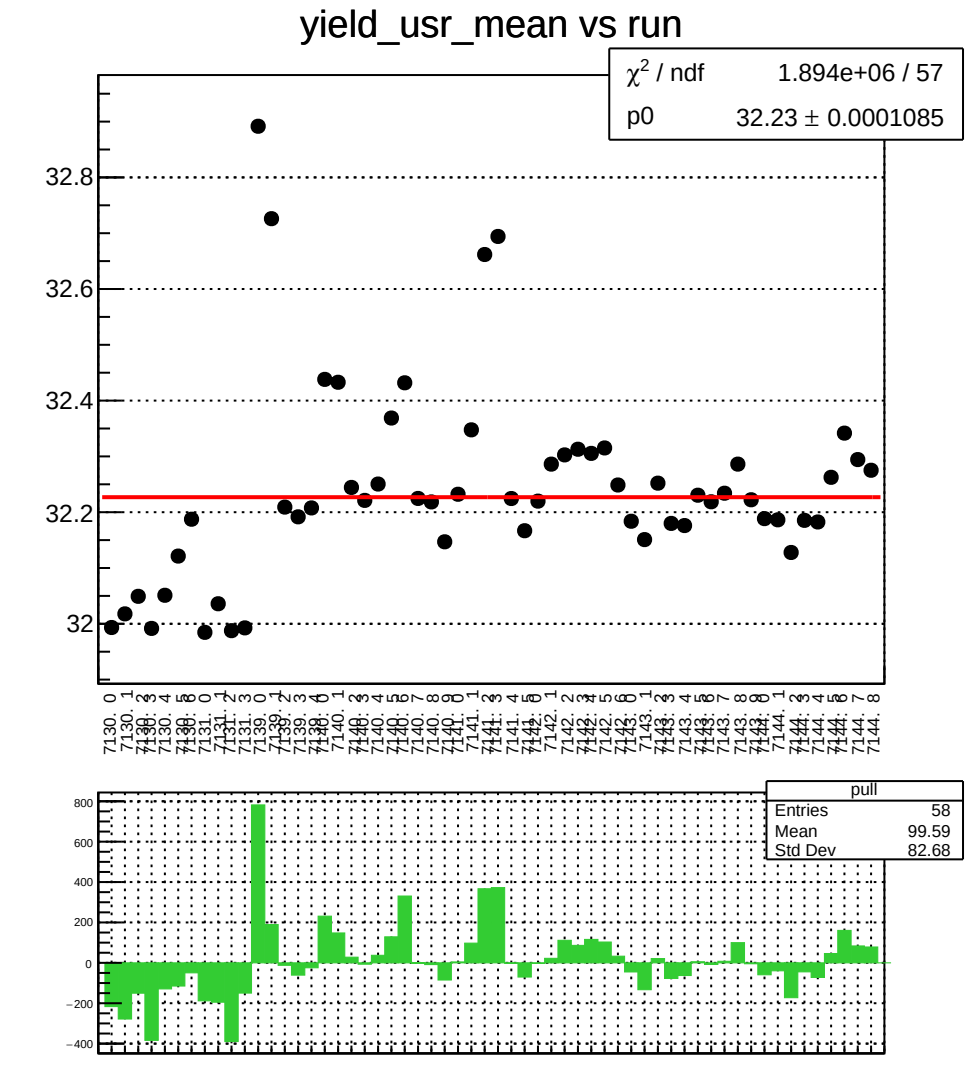

pull1D
Entries 58
Mean −0.002562
Std Dev 1.179
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

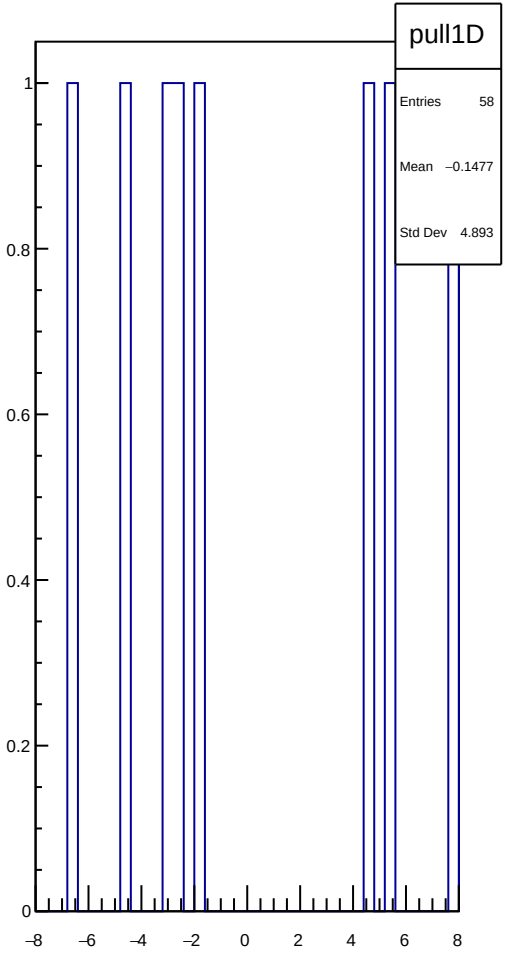

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1156 / 57
p0 30.11 ± 0.02862
32
31
30
29
28
27
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

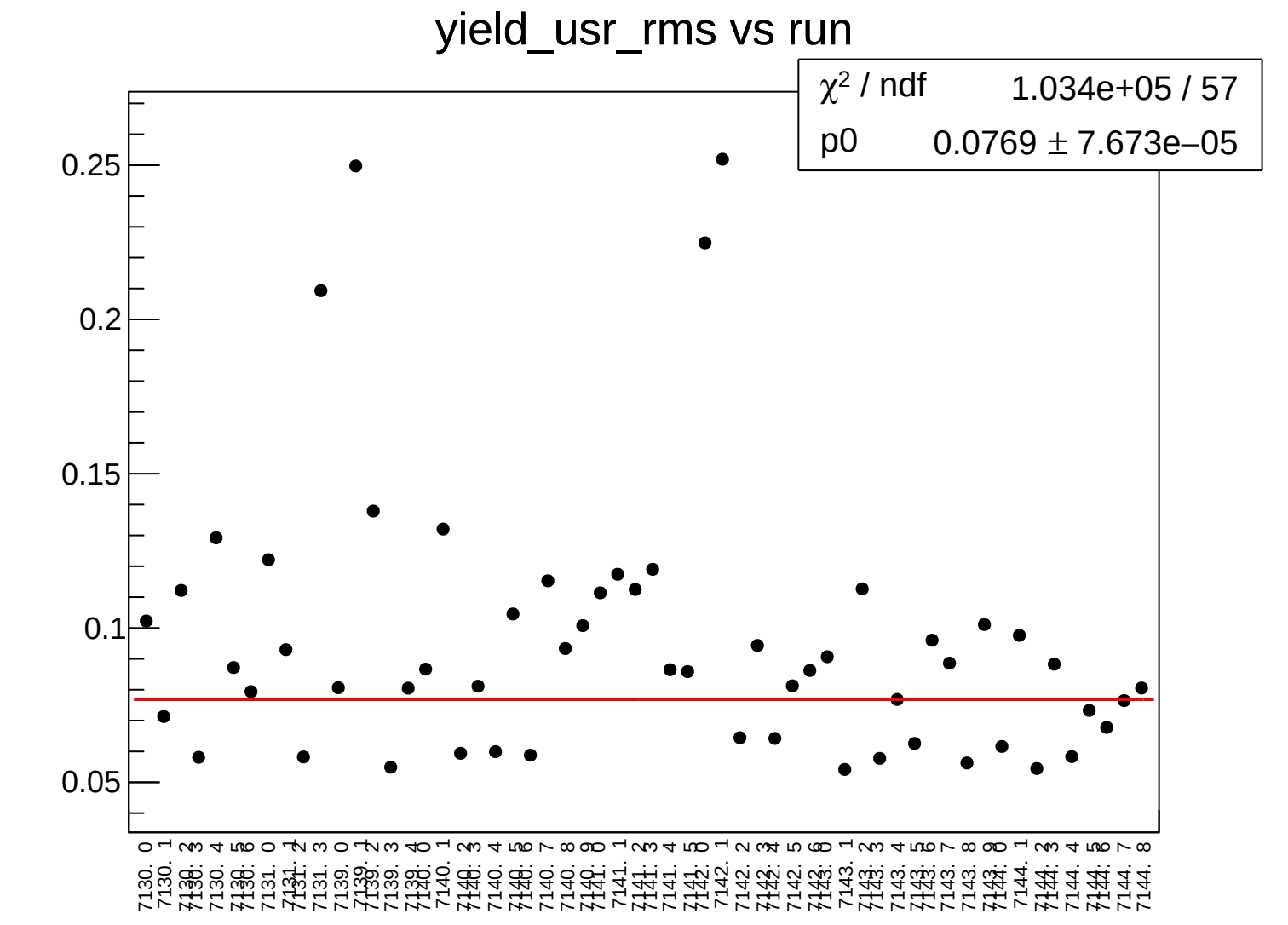

yield_usl_mean vs run
χ² / ndf 2.195e+06 / 57
p0 31.13 ± 0.0001164
31.4
31.2
31
30.8
30.6
30.4
30.2
30
pull
Entries 58
Mean −0.2733
Std Dev 13.73
400
200
0
−200
−400
−600
−800
−1000

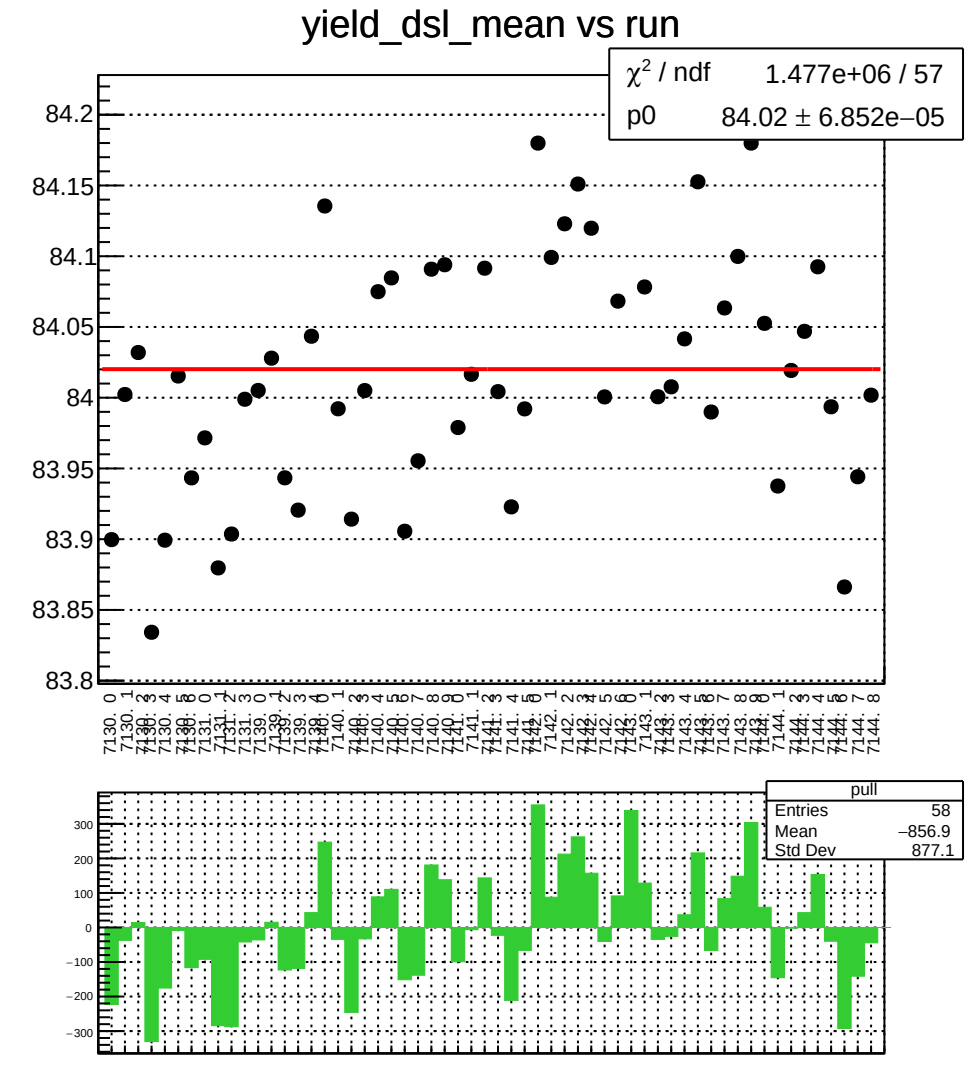

pull1D
Entries 58
Mean −3.683
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

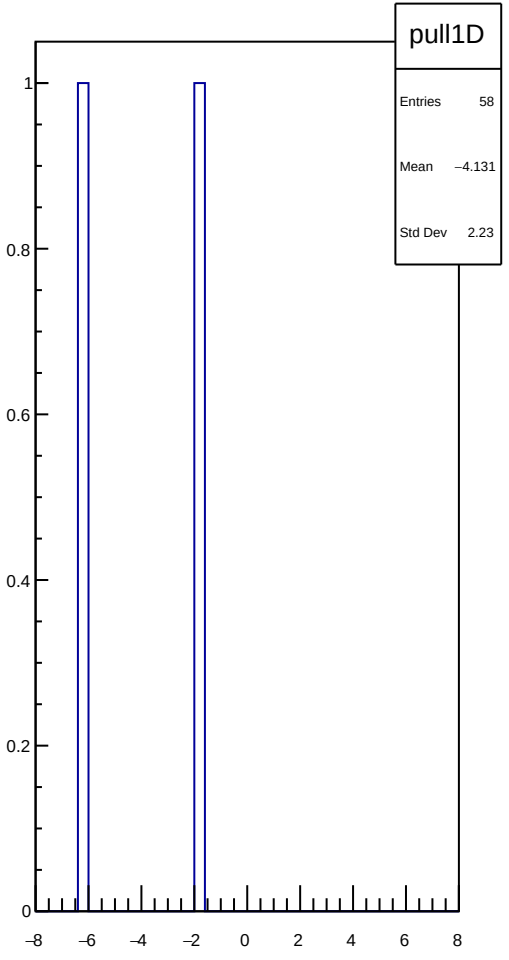

yield_usl_rms vs run
χ² / ndf 1.405e+05 / 57
p0 0.08095 ± 8.23e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

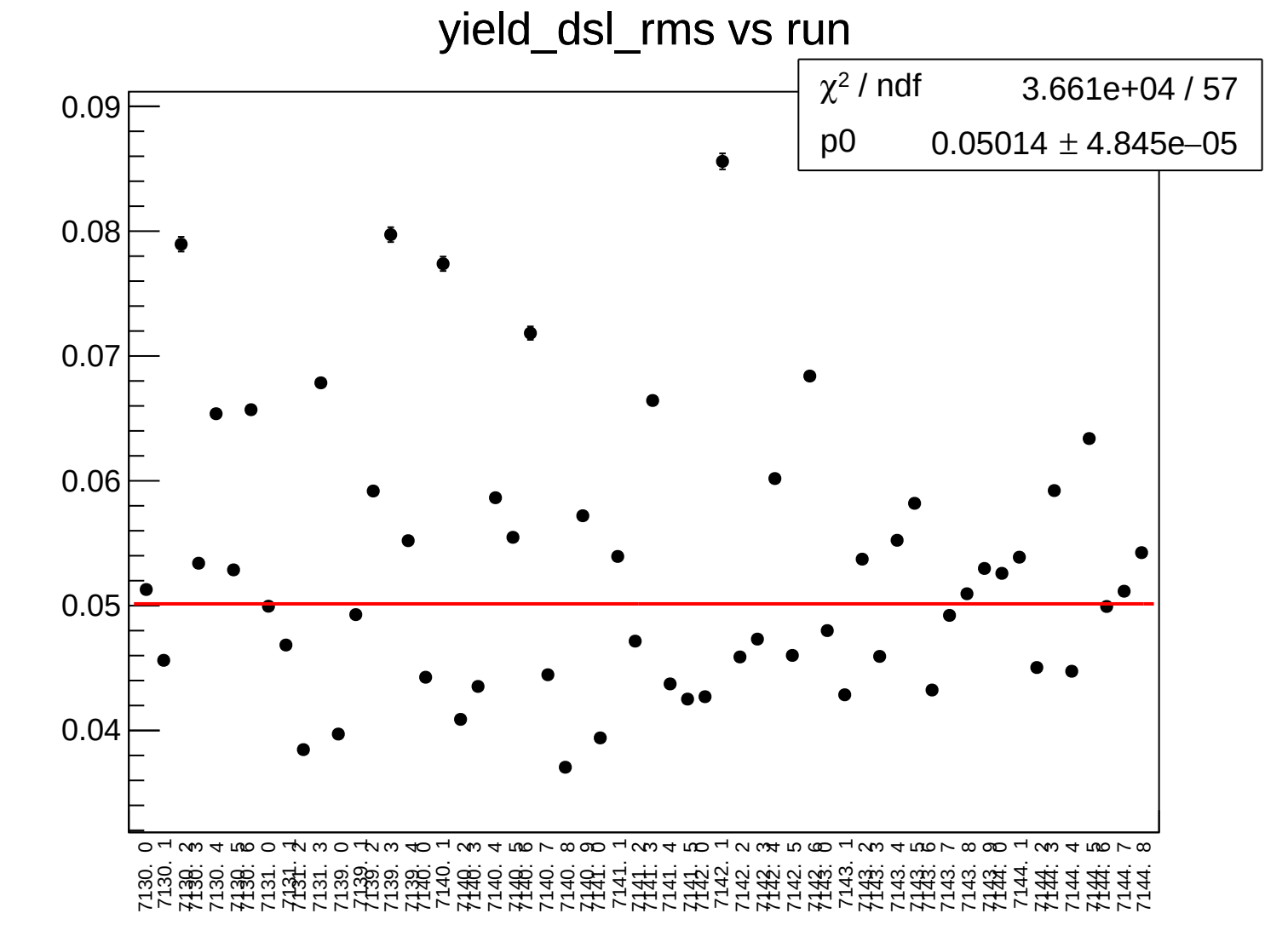

yield_usr_mean vs run
χ² / ndf 1.894e+06 / 57
p0 32.23 ± 0.0001085
32.8
32.6
32.4
32.2
32
pull
Entries 58
Mean 99.59
Std Dev 82.68
800
600
400
200
0
−200
−400

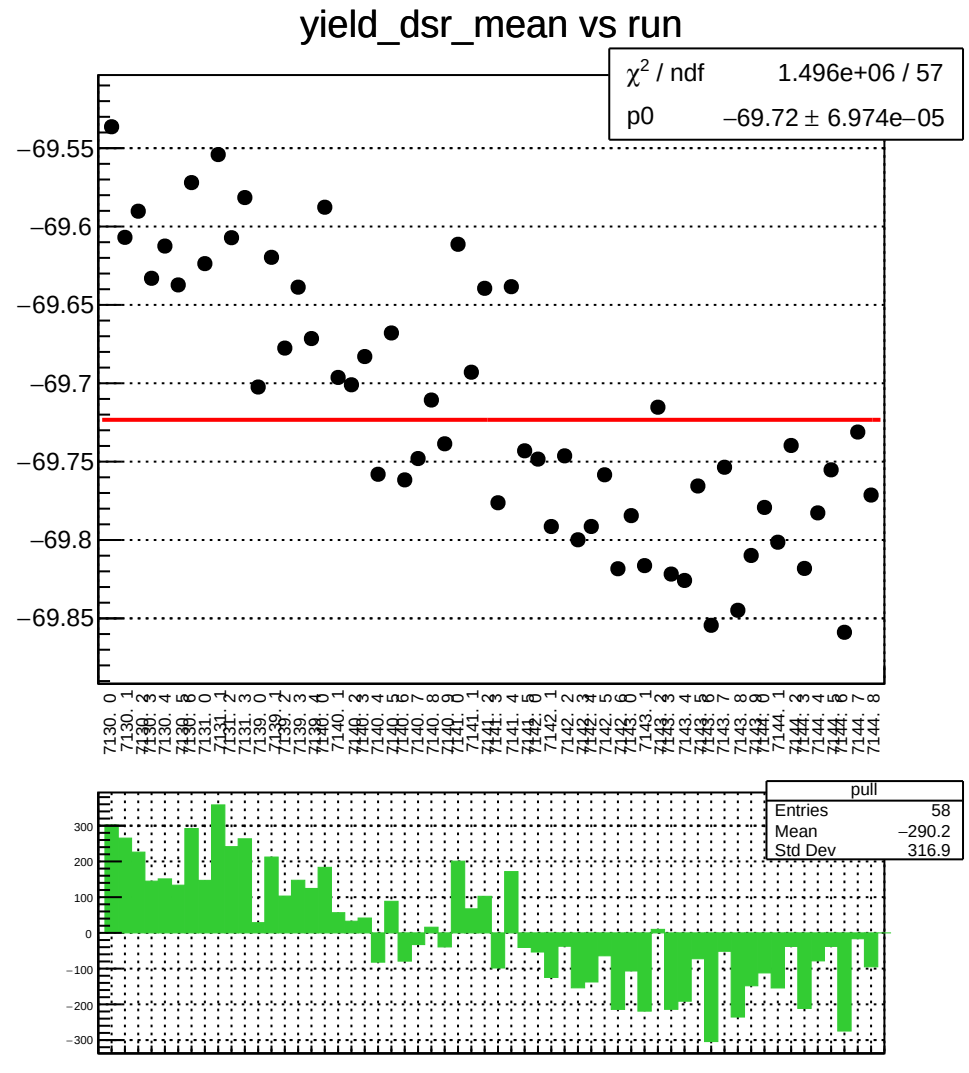

pull1D
Entries 58
Mean −0.1477
Std Dev 4.893
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

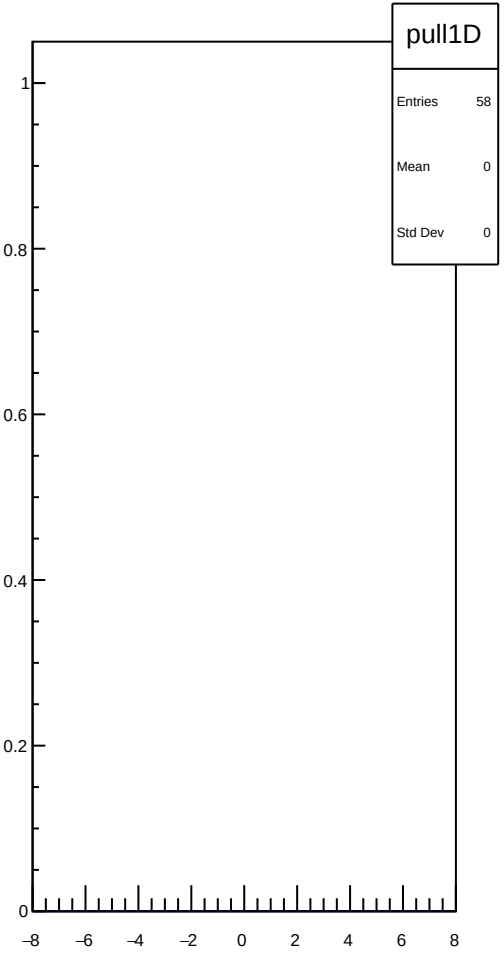

yield_usr_rms vs run
χ² / ndf 1.034e+05 / 57
p0 0.0769 ± 7.673e−05
0.25
0.2
0.15
0.1
0.05

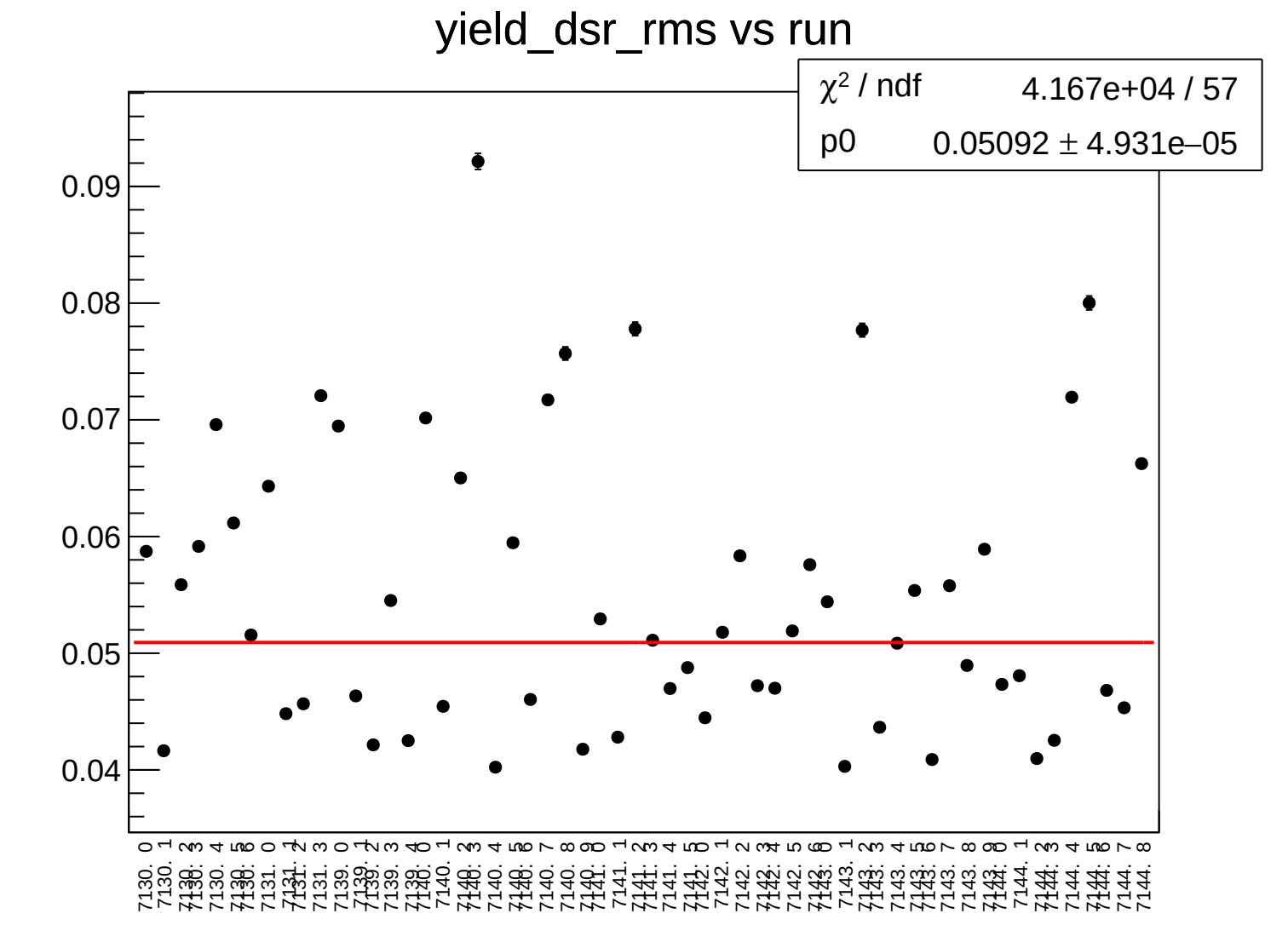

yield_dsl_mean vs run
χ² / ndf 1.477e+06 / 57
p0 84.02 ± 6.852e−05
84.2
84.15
84.1
84.05
84
83.95
83.9
83.85
83.8
pull
Entries 58
Mean −856.9
Std Dev 877.1
300
200
100
0
−100
−200
−300

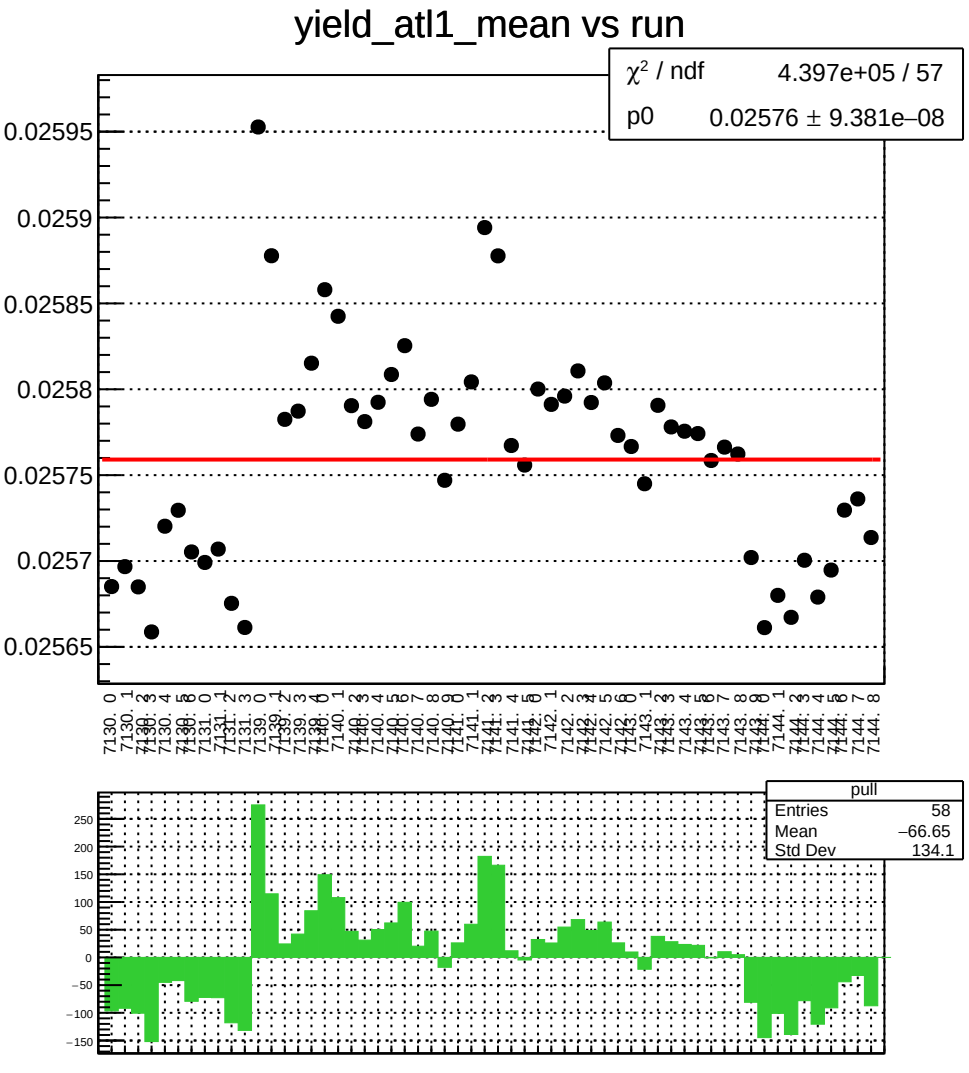

pull1D
Entries 58
Mean −4.131
Std Dev 2.23
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

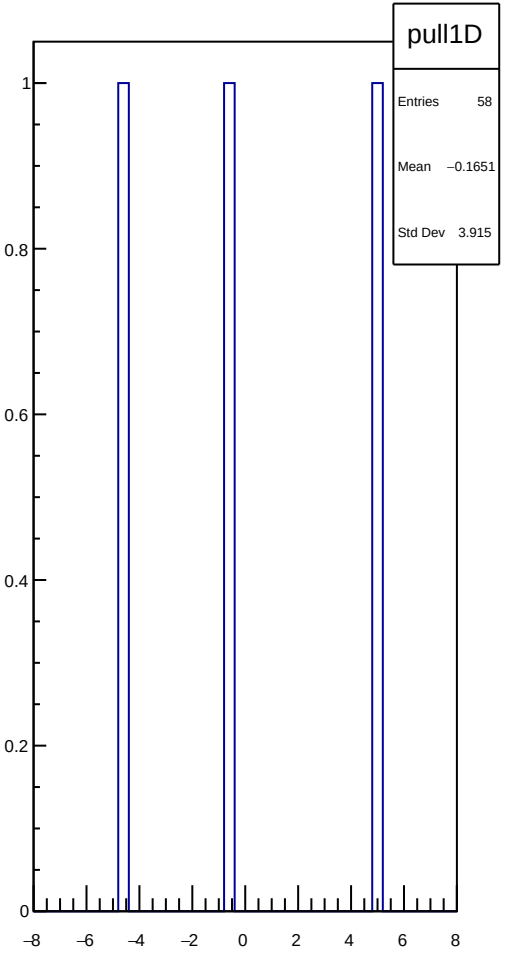

yield_dsl_rms vs run
χ² / ndf 3.661e+04 / 57
p0 0.05014 ± 4.845e−05
0.09
0.08
0.07
0.06
0.05
0.04

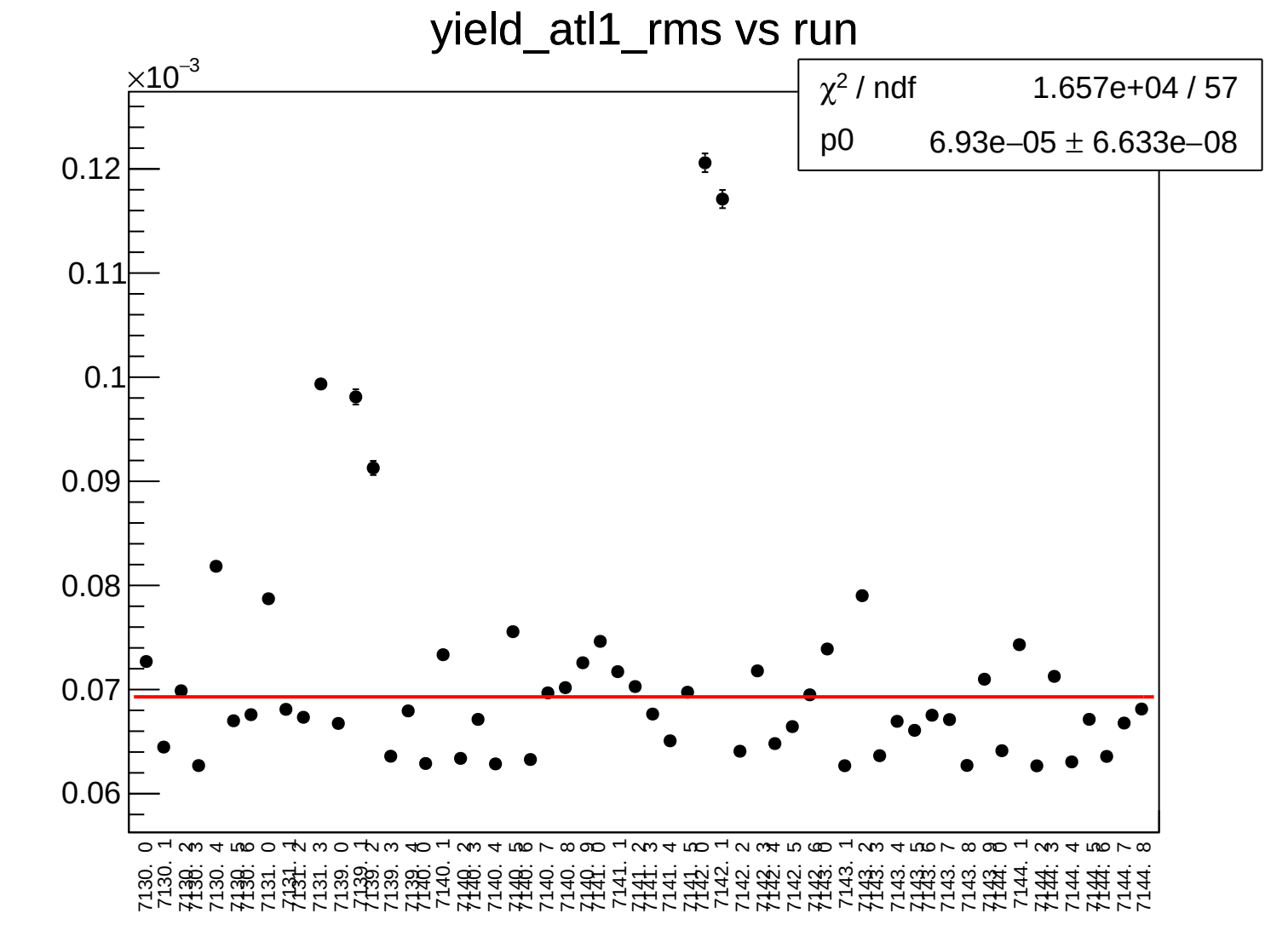

yield_dsr_mean vs run
χ² / ndf 1.496e+06 / 57
p0 −69.72 ± 6.974e−05
−69.55
−69.6
−69.65
−69.7
−69.75
−69.8
−69.85
pull
Entries 58
Mean −290.2
Std Dev 316.9
300
200
100
0
−100
−200
−300

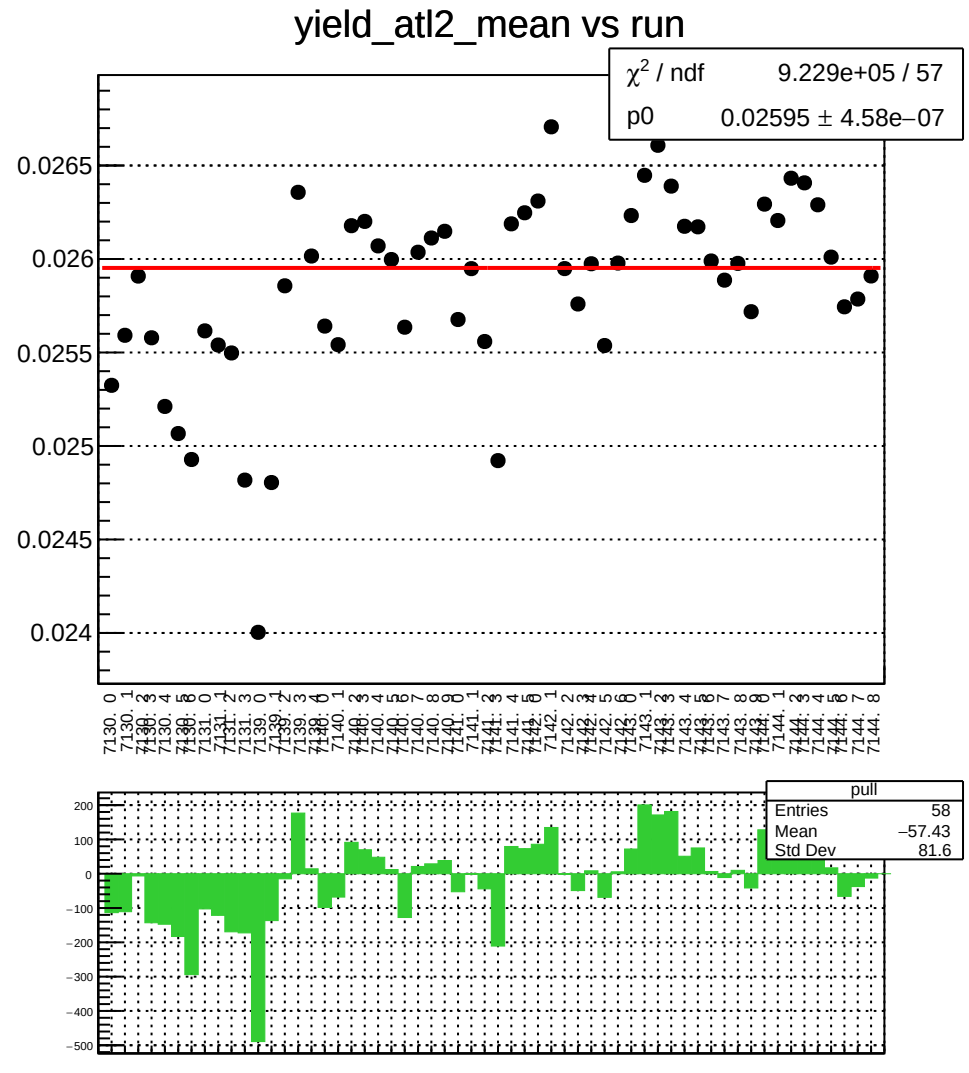

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

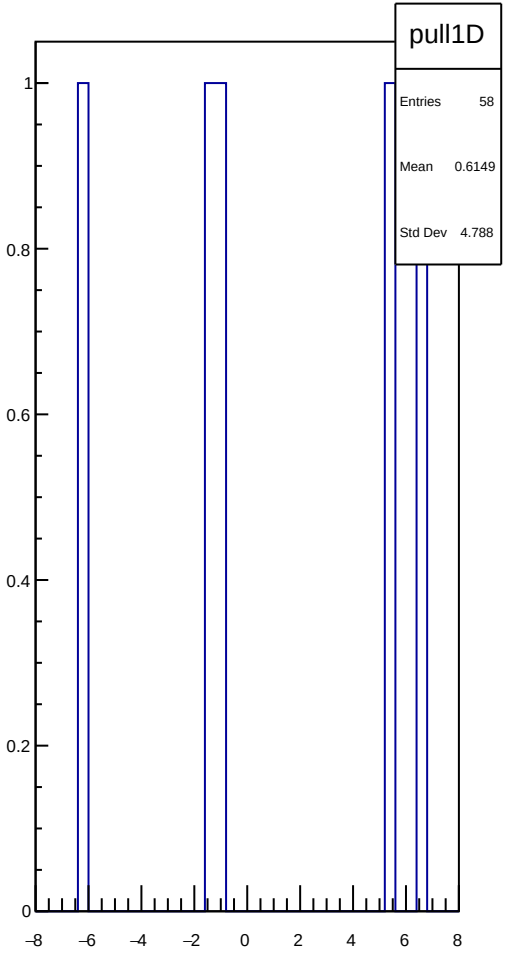

yield_dsr_rms vs run
χ² / ndf 4.167e+04 / 57
p0 0.05092 ± 4.931e–05
0.09
0.08
0.07
0.06
0.05
0.04

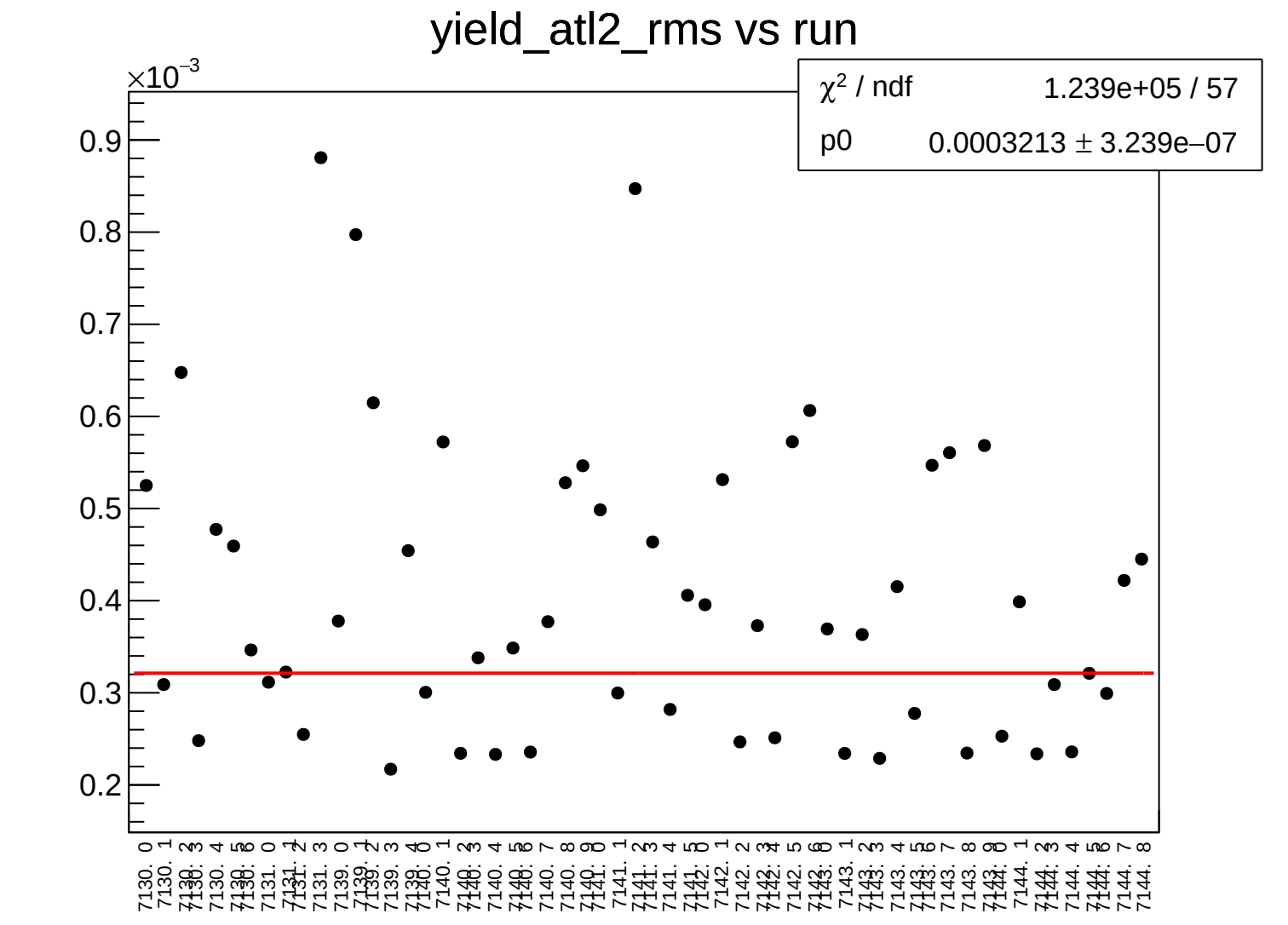

yield_atl1_mean vs run
χ² / ndf 4.397e+05 / 57
p0 0.02576 ± 9.381e−08
0.02595
0.0259
0.02585
0.0258
0.02575
0.0257
0.02565
pull
Entries 58
Mean −66.65
Std Dev 134.1
250
200
150
100
50
0
−50
−100
−150

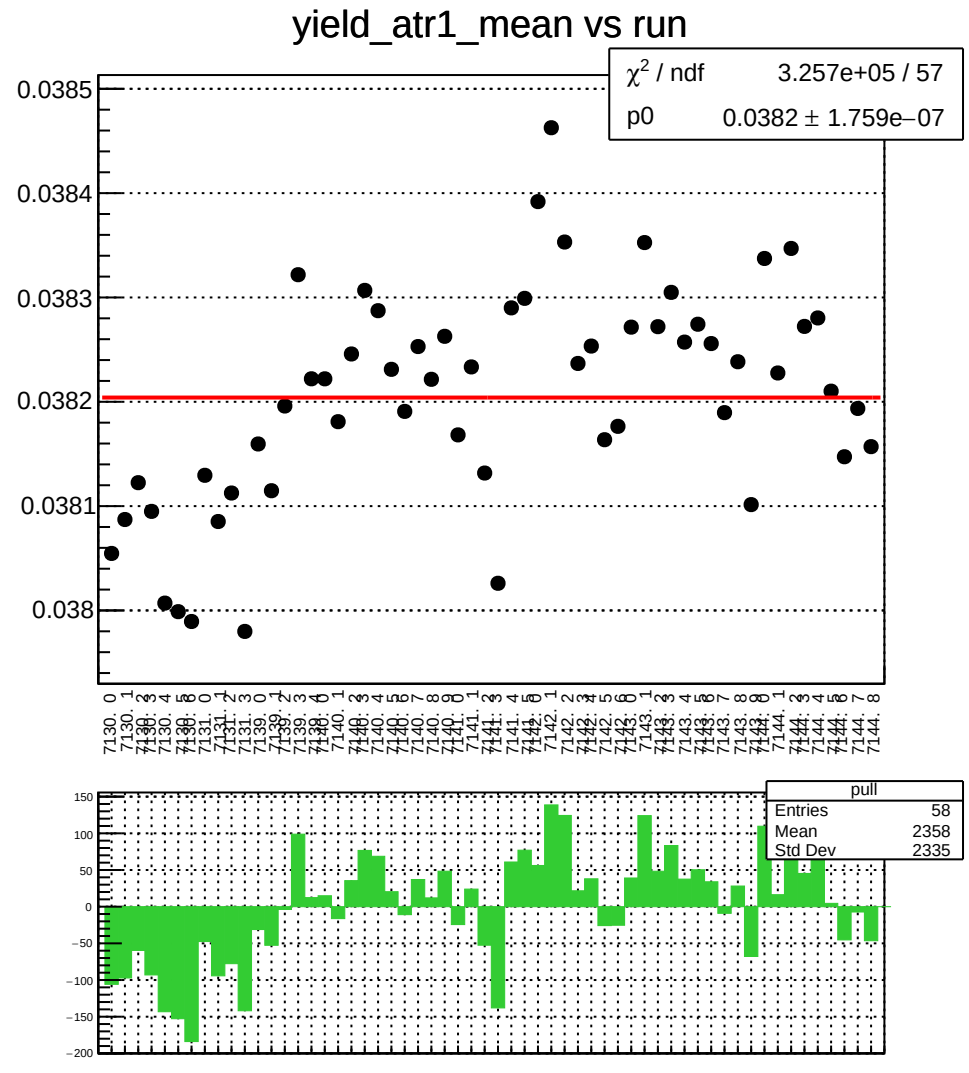

pull1D
Entries 58
Mean −0.1651
Std Dev 3.915
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

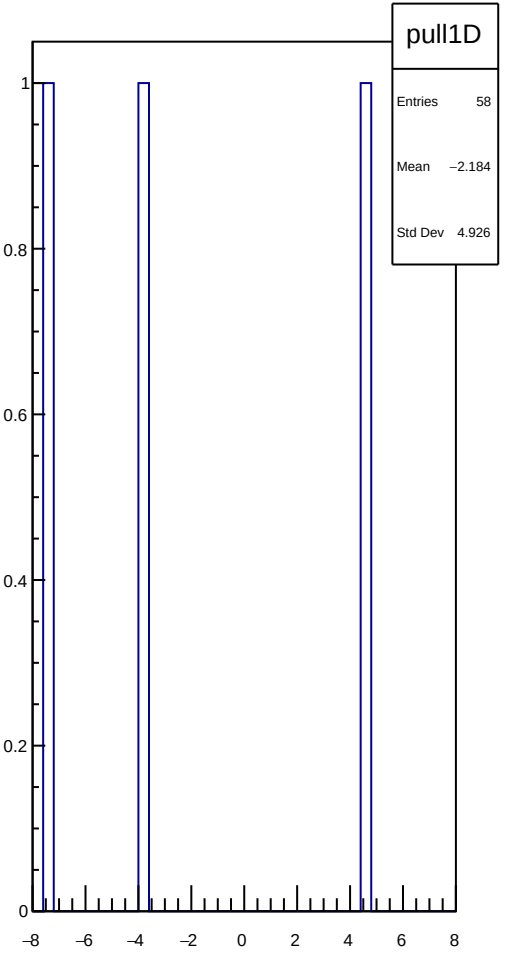

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.657e+04 / 57
p0 6.93e−05 ± 6.633e−08
0.12
0.11
0.1
0.09
0.08
0.07
0.06

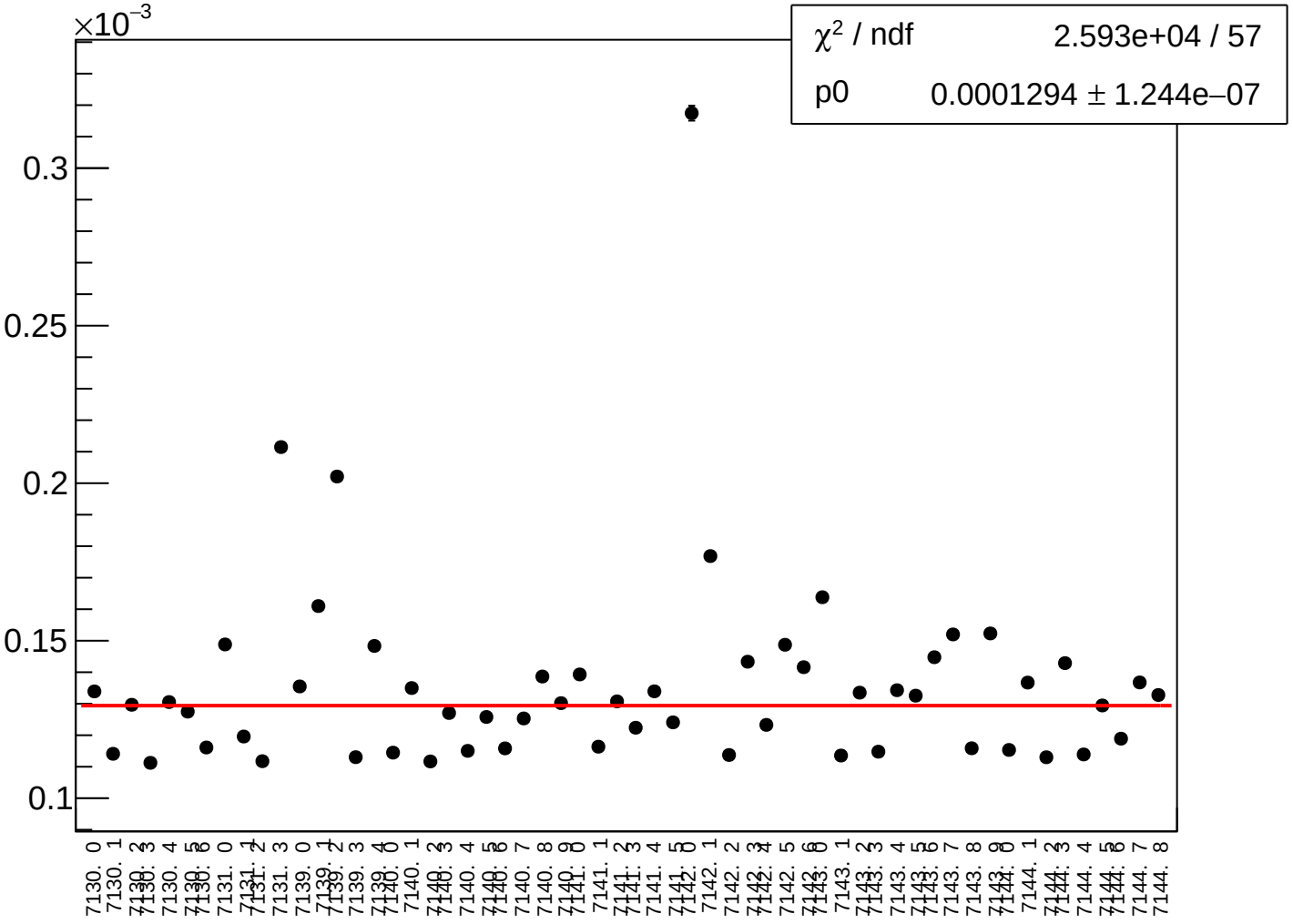

yield_atl2_mean vs run
χ² / ndf 9.229e+05 / 57
p0 0.02595 ± 4.58e−07
0.0265
0.026
0.0255
0.025
0.0245
0.024
pull
Entries 58
Mean −57.43
Std Dev 81.6
200
100
0
−100
−200
−300
−400
−500

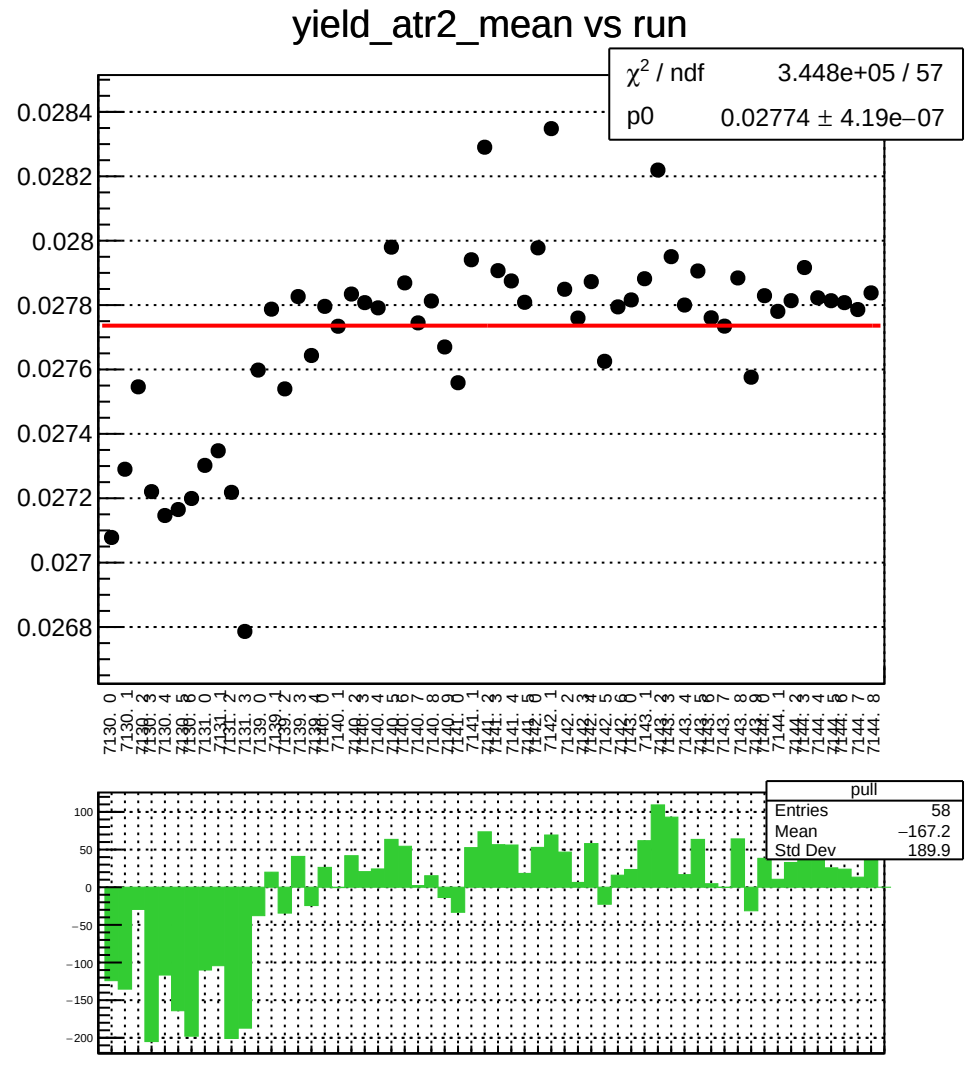

pull1D
Entries 58
Mean 0.6149
Std Dev 4.788
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

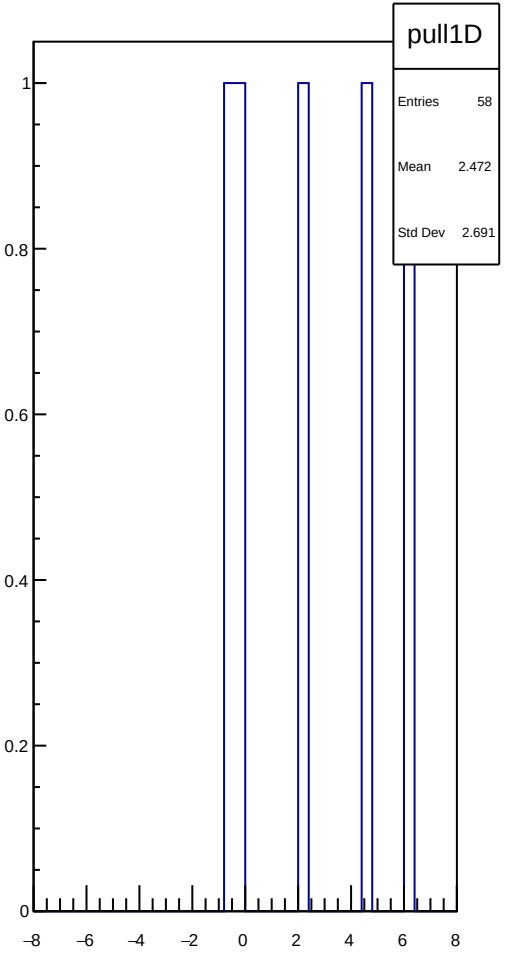

yield_atl2_rms vs run
×10⁻³
χ² / ndf 1.239e+05 / 57
p0 0.0003213 ± 3.239e−07
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

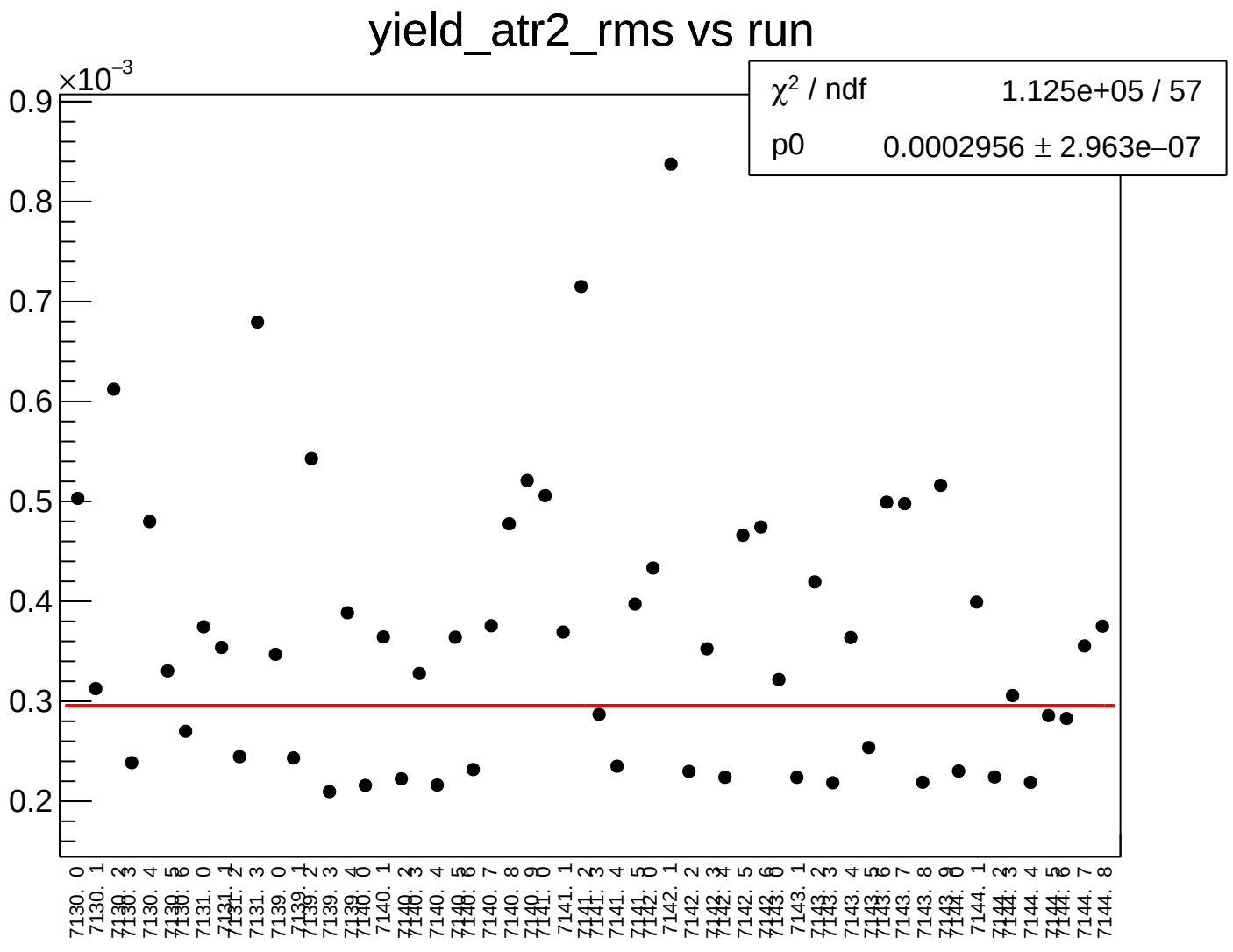

yield_atr1_mean vs run
χ² / ndf 3.257e+05 / 57
p0 0.0382 ± 1.759e−07
0.0385
0.0384
0.0383
0.0382
0.0381
0.038
pull
Entries 58
Mean 2358
Std Dev 2335
150
100
50
0
−50
−100
−150
−200

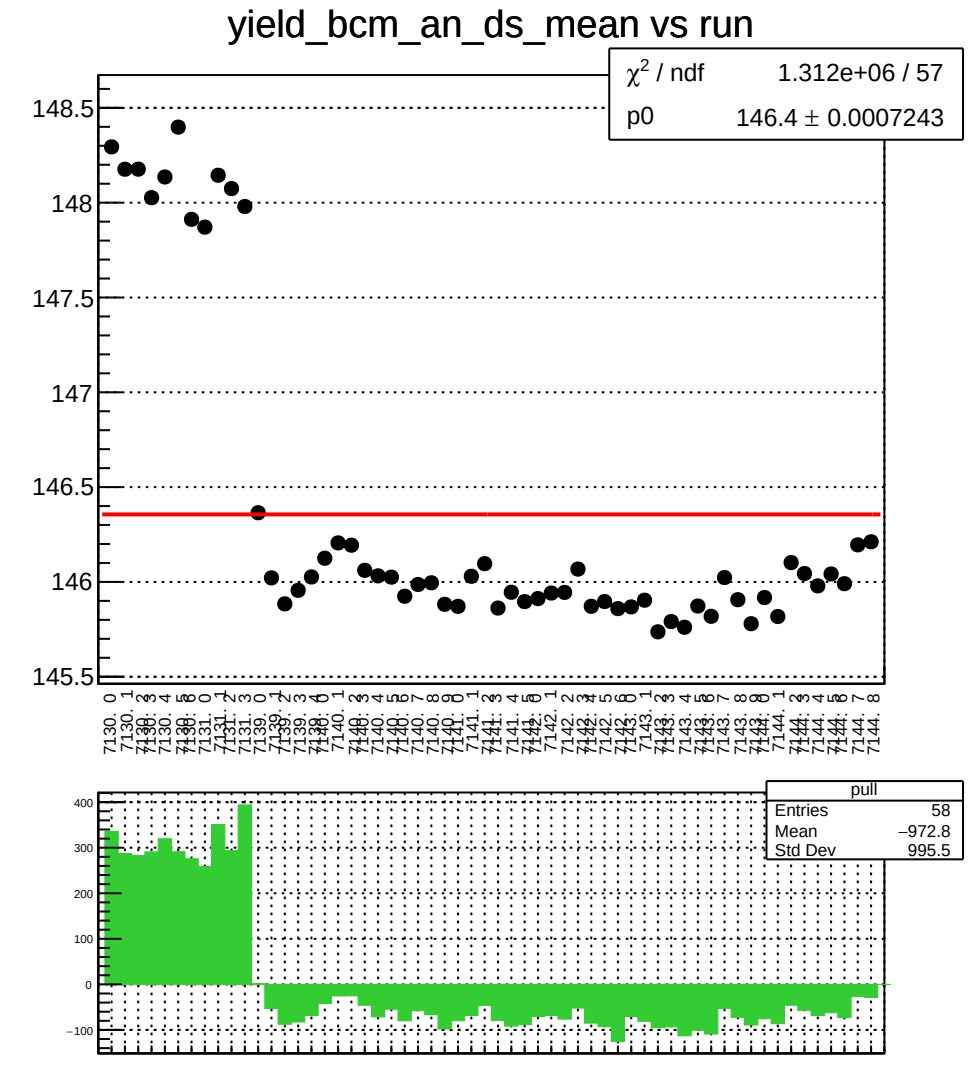

pull1D
Entries 58
Mean −2.184
Std Dev 4.926
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

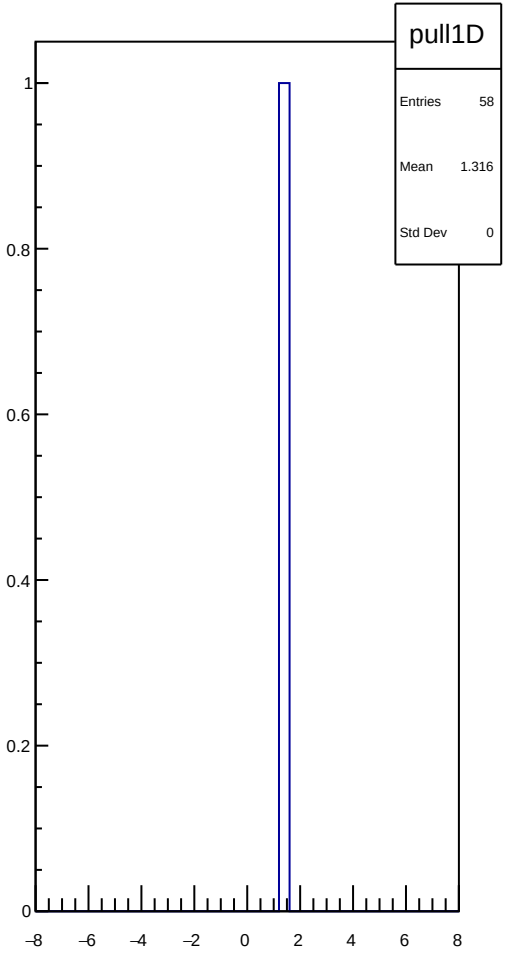

yield_atr1_rms vs run
×10⁻³
χ² / ndf 2.593e+04 / 57
p0 0.0001294 ± 1.244e−07
0.3
0.25
0.2
0.15
0.1

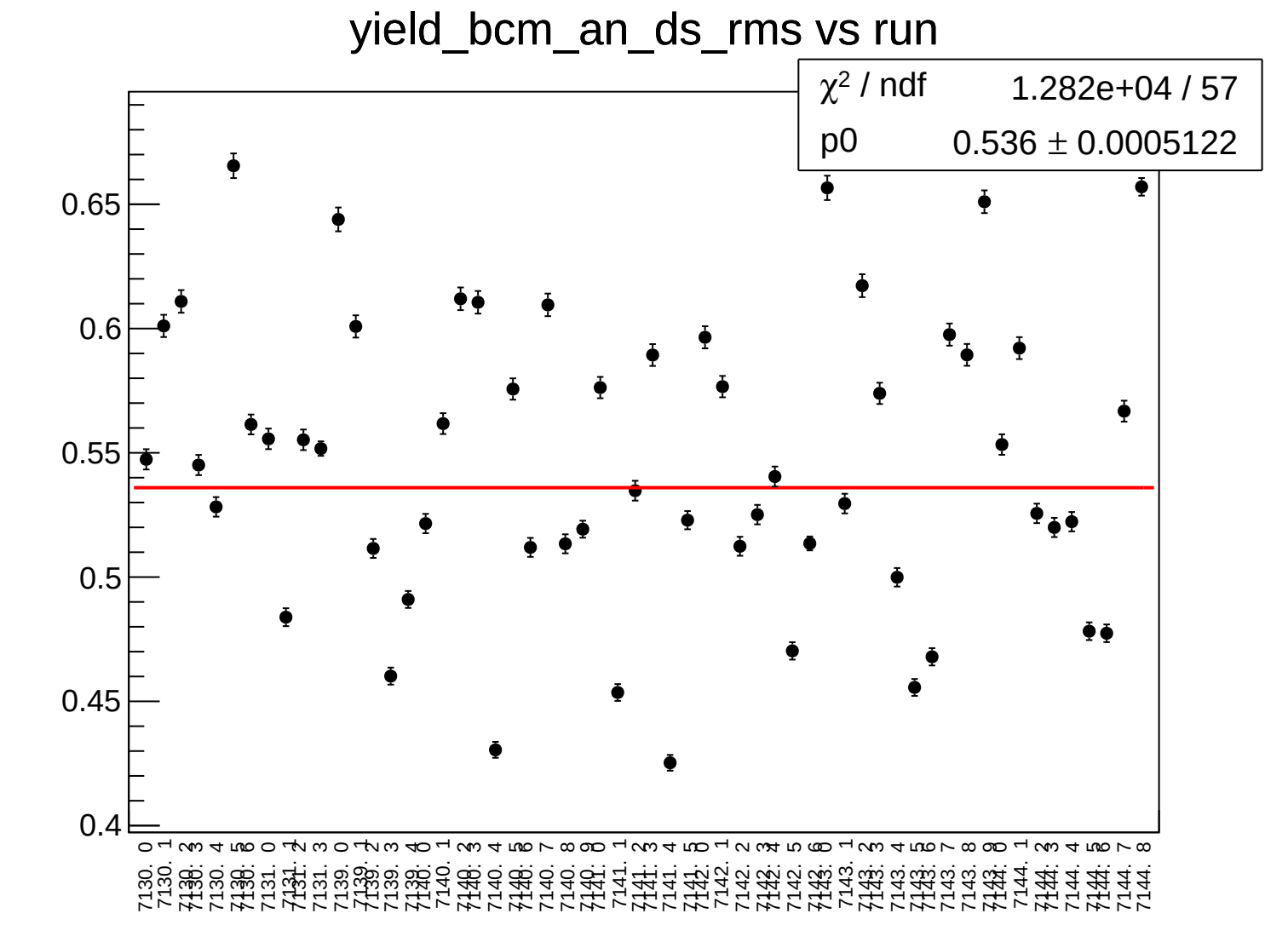

yield_atr2_mean vs run
χ² / ndf 3.448e+05 / 57
p0 0.02774 ± 4.19e−07
0.0284
0.0282
0.028
0.0278
0.0276
0.0274
0.0272
0.027
0.0268
pull
Entries 58
Mean −167.2
Std Dev 189.9
100
50
0
−50
−100
−150
−200

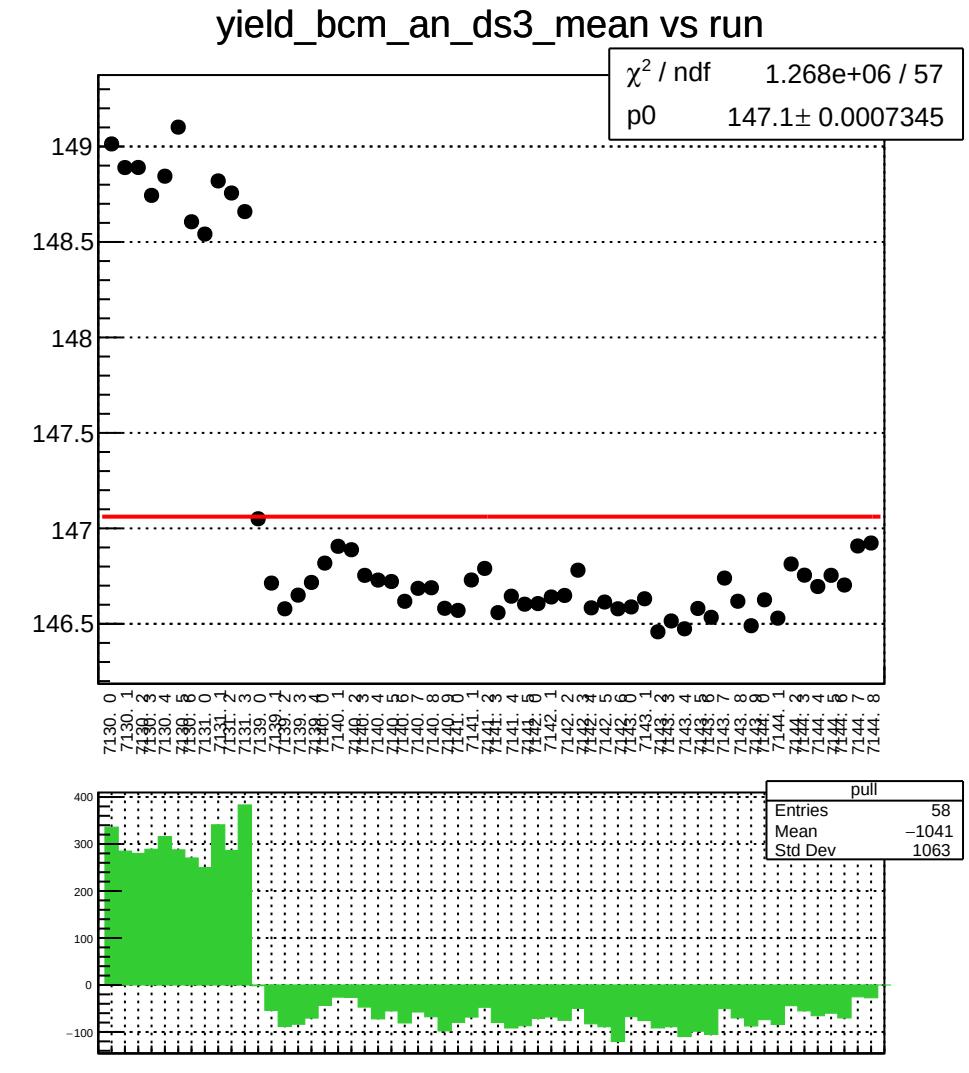

pull1D
Entries 58
Mean 2.472
Std Dev 2.691
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

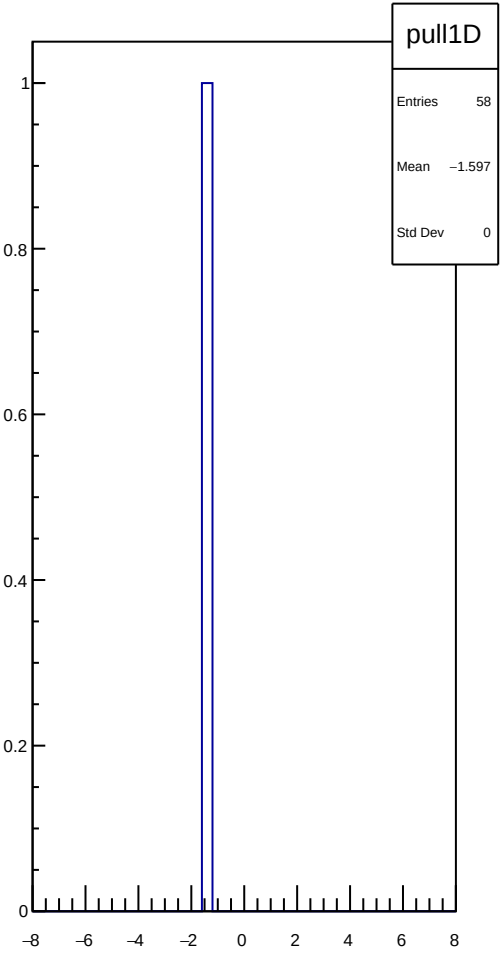

yield_atr2_rms vs run
×10⁻³
χ² / ndf 1.125e+05 / 57
p0 0.0002956 ± 2.963e−07
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

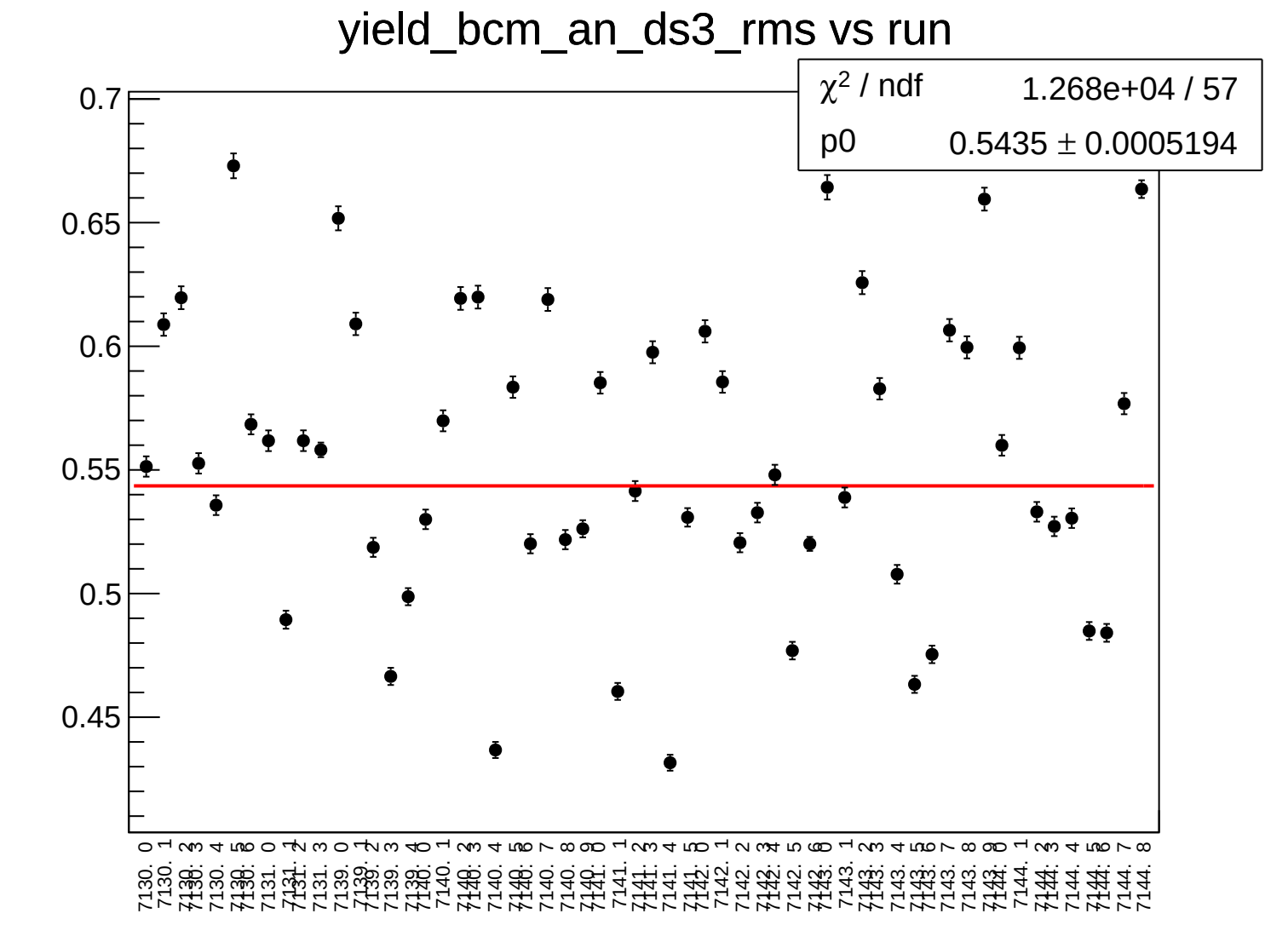

yield_bcm_an_ds_mean vs run
χ² / ndf 1.312e+06 / 57
p0 146.4 ± 0.0007243
148.5
148
147.5
147
146.5
146
145.5
pull
Entries 58
Mean −972.8
Std Dev 995.5
400
300
200
100
0
−100

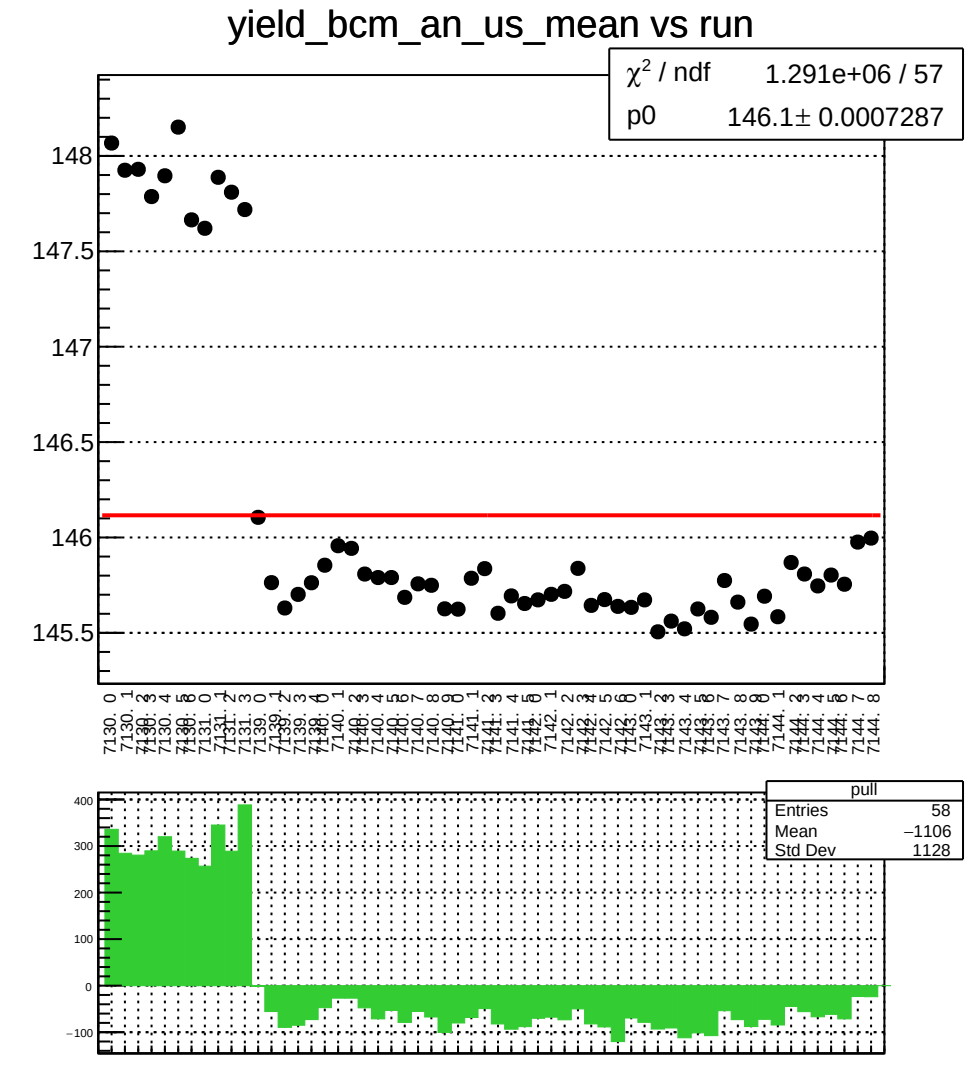

pull1D
Entries 58
Mean 1.316
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

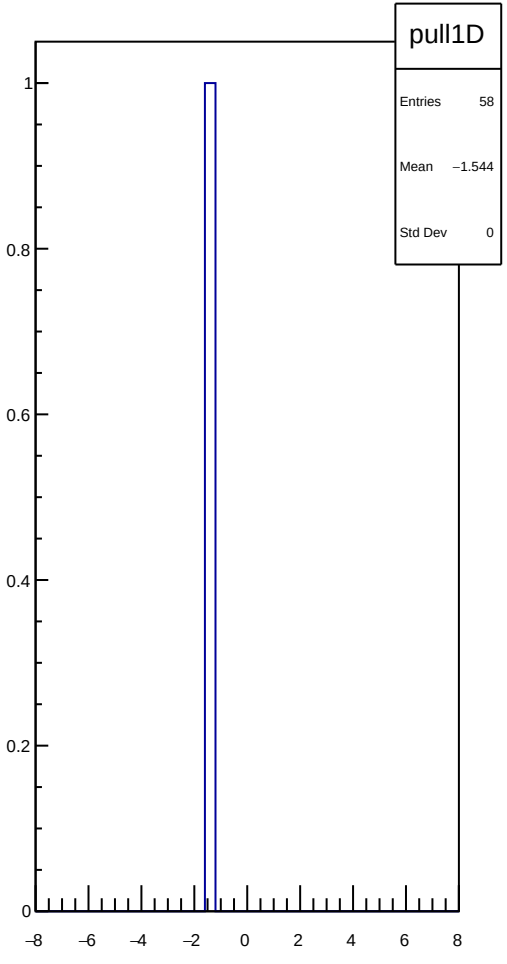

yield_bcm_an_ds_rms vs run
χ² / ndf 1.282e+04 / 57
p0 0.536 ± 0.0005122
0.65
0.6
0.55
0.5
0.45
0.4

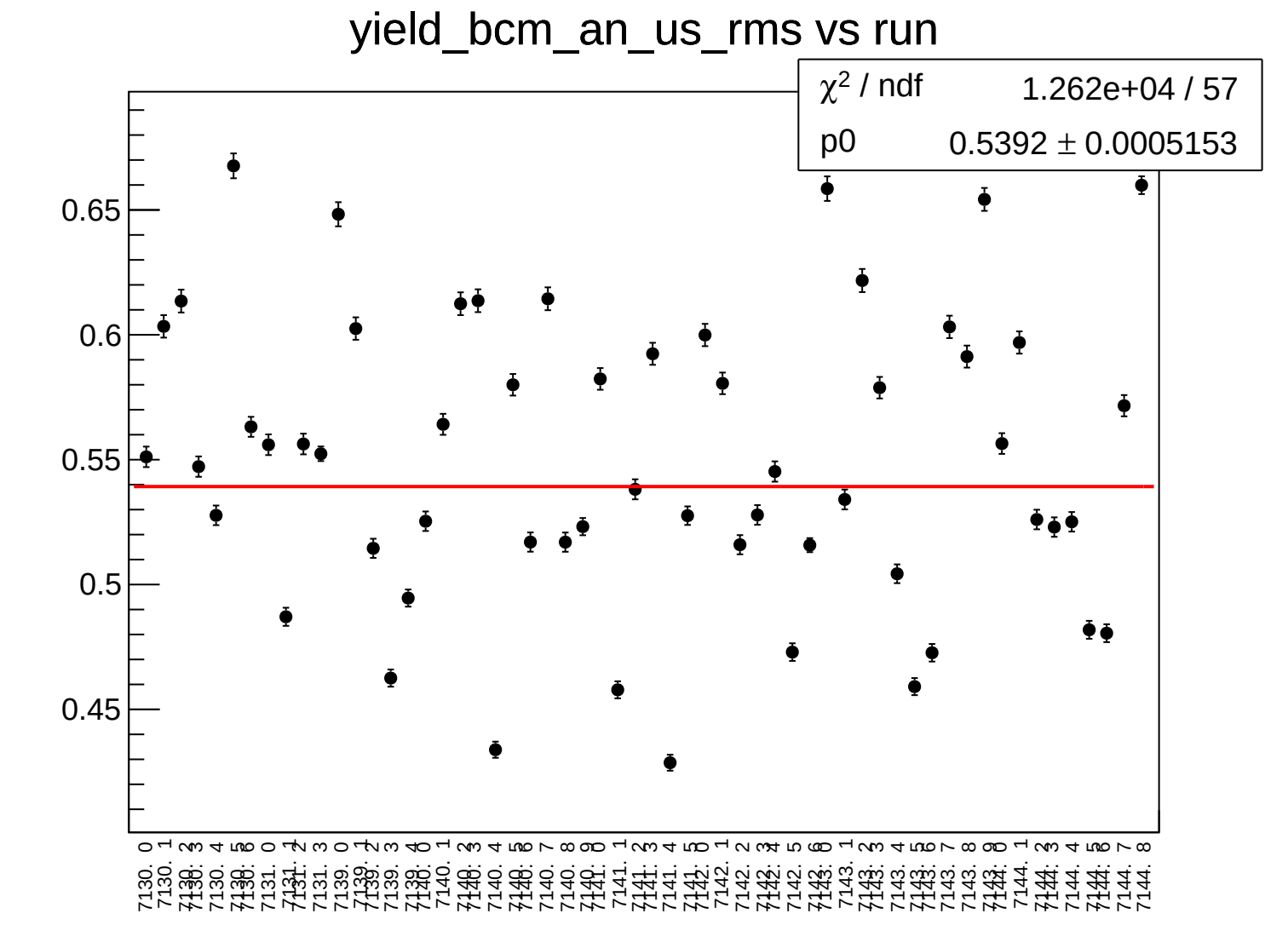

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.268e+06 / 57
p0 147.1± 0.0007345
149
148.5
148
147.5
147
146.5
pull
Entries 58
Mean −1041
Std Dev 1063
400
300
200
100
0
−100

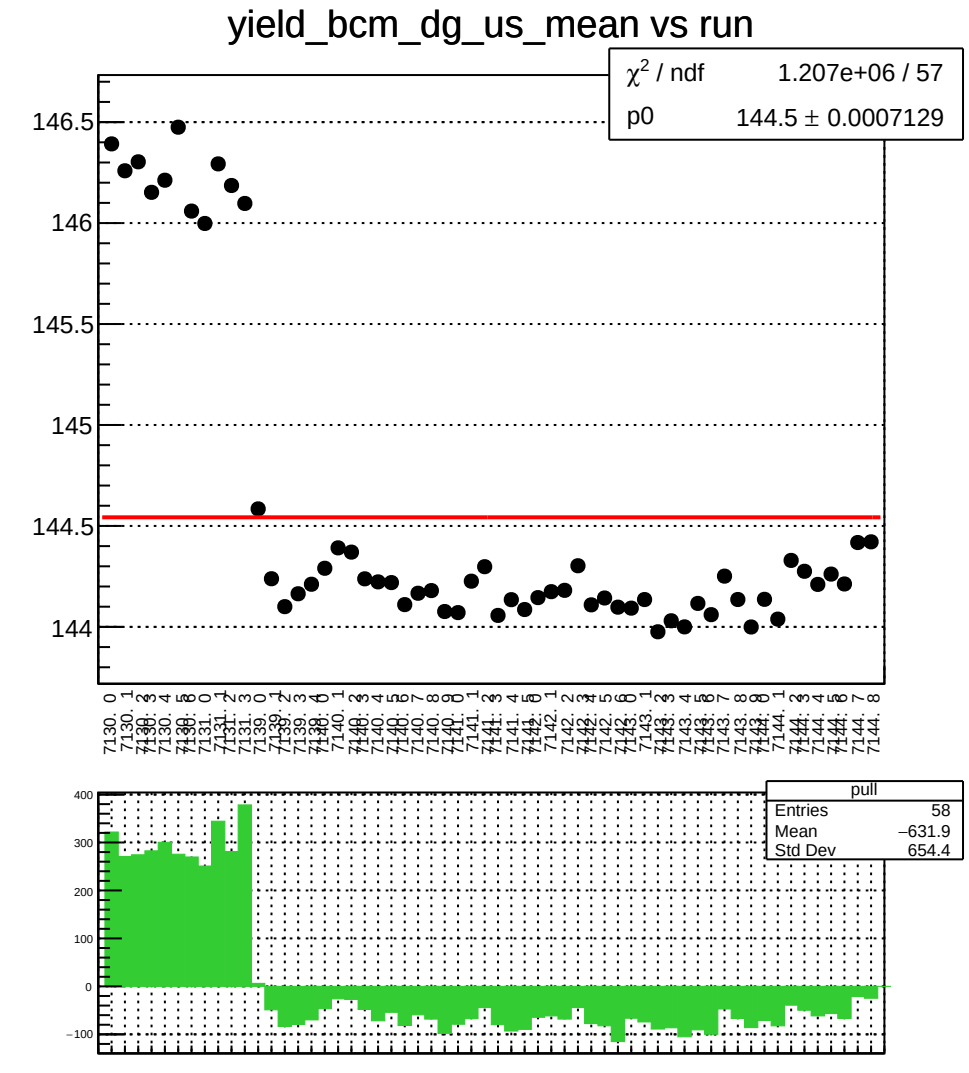

pull1D
Entries 58
Mean −1.597
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

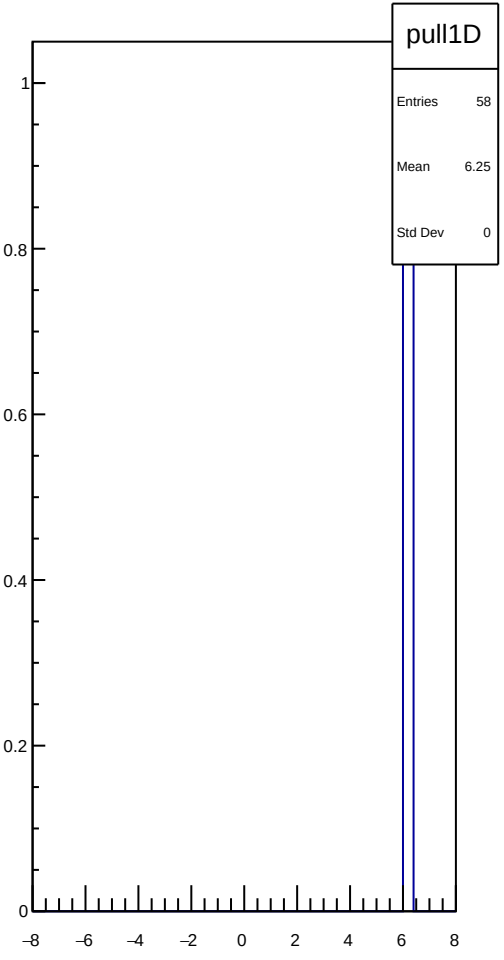

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.268e+04 / 57
p0 0.5435 ± 0.0005194
0.7
0.65
0.6
0.55
0.5
0.45

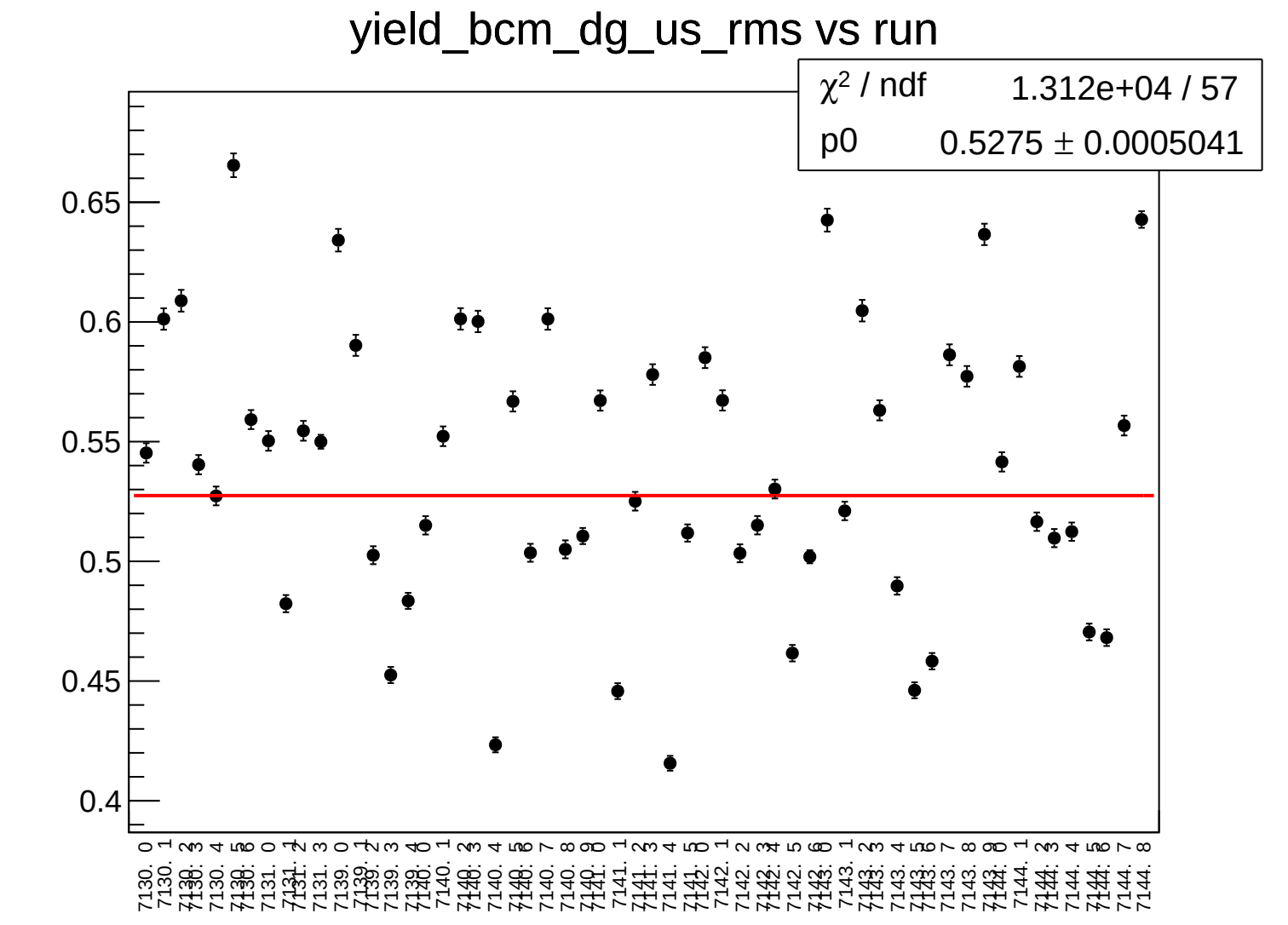

yield_bcm_an_us_mean vs run
χ² / ndf 1.291e+06 / 57
p0 146.1± 0.0007287
148
147.5
147
146.5
146
145.5
pull
Entries 58
Mean −1106
Std Dev 1128
400
300
200
100
0
−100

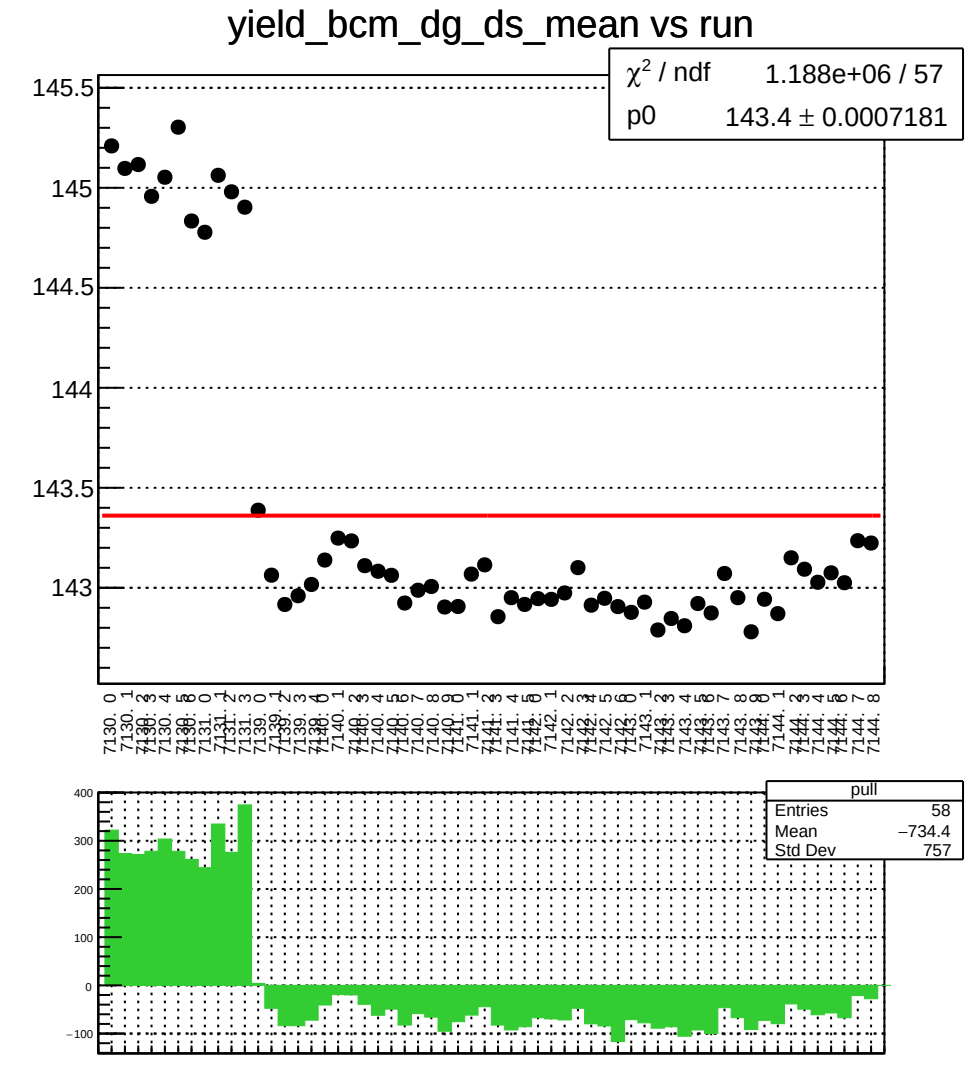

pull1D
Entries 58
Mean −1.544
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

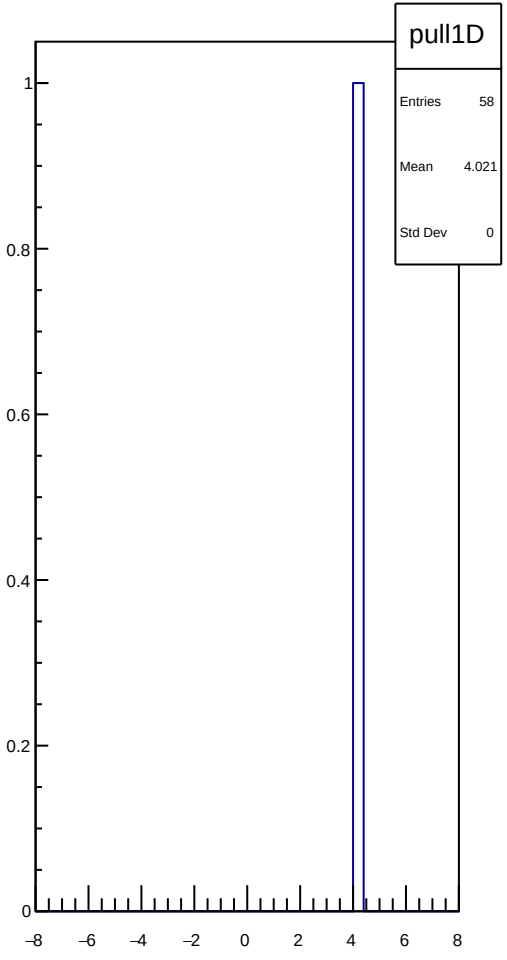

yield_bcm_an_us_rms vs run
χ² / ndf 1.262e+04 / 57
p0 0.5392 ± 0.0005153
0.65
0.6
0.55
0.5
0.45

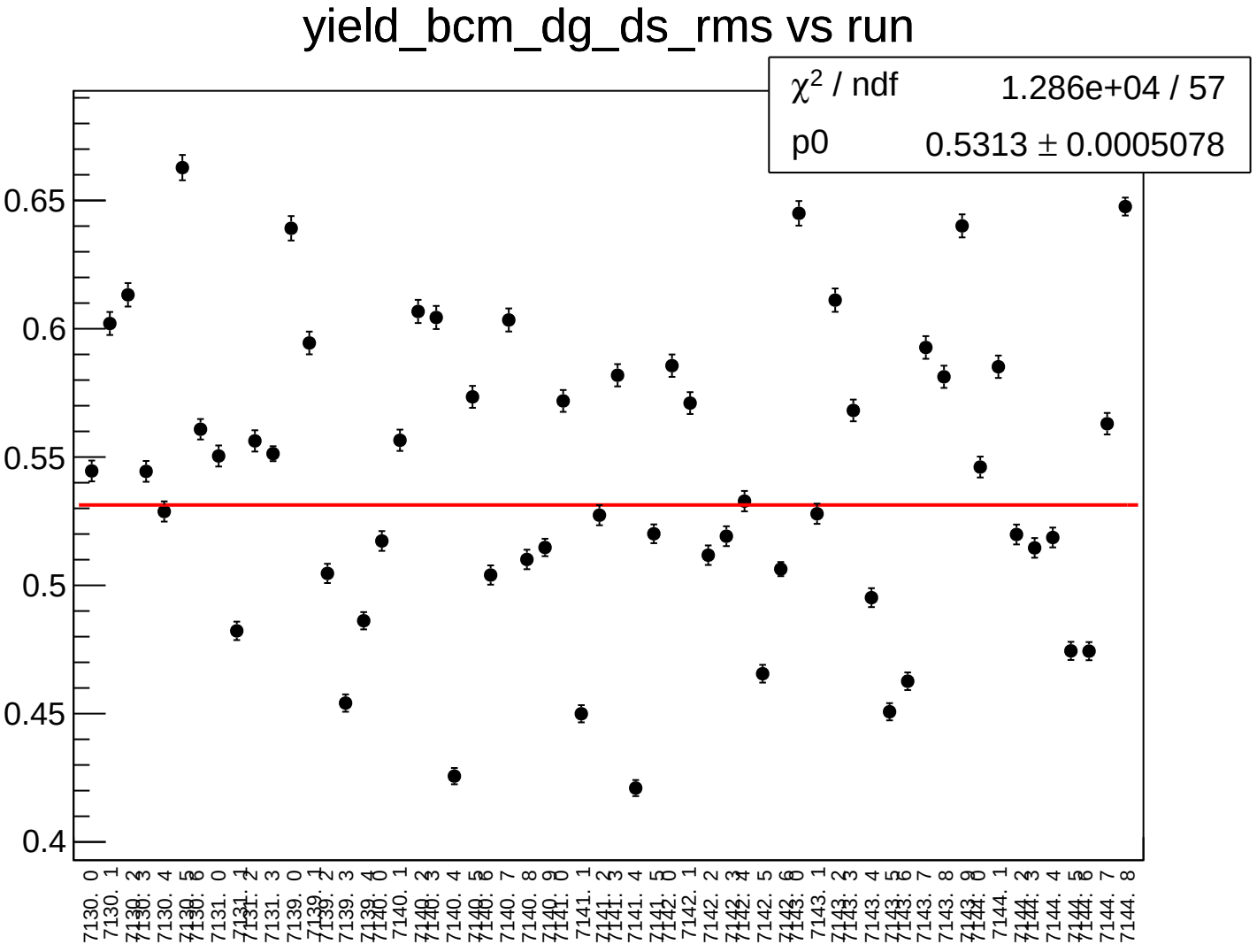

yield_bcm_dg_us_mean vs run
χ² / ndf 1.207e+06 / 57
p0 144.5 ± 0.0007129
146.5
146
145.5
145
144.5
144
pull
Entries 58
Mean −631.9
Std Dev 654.4
400
300
200
100
0
−100

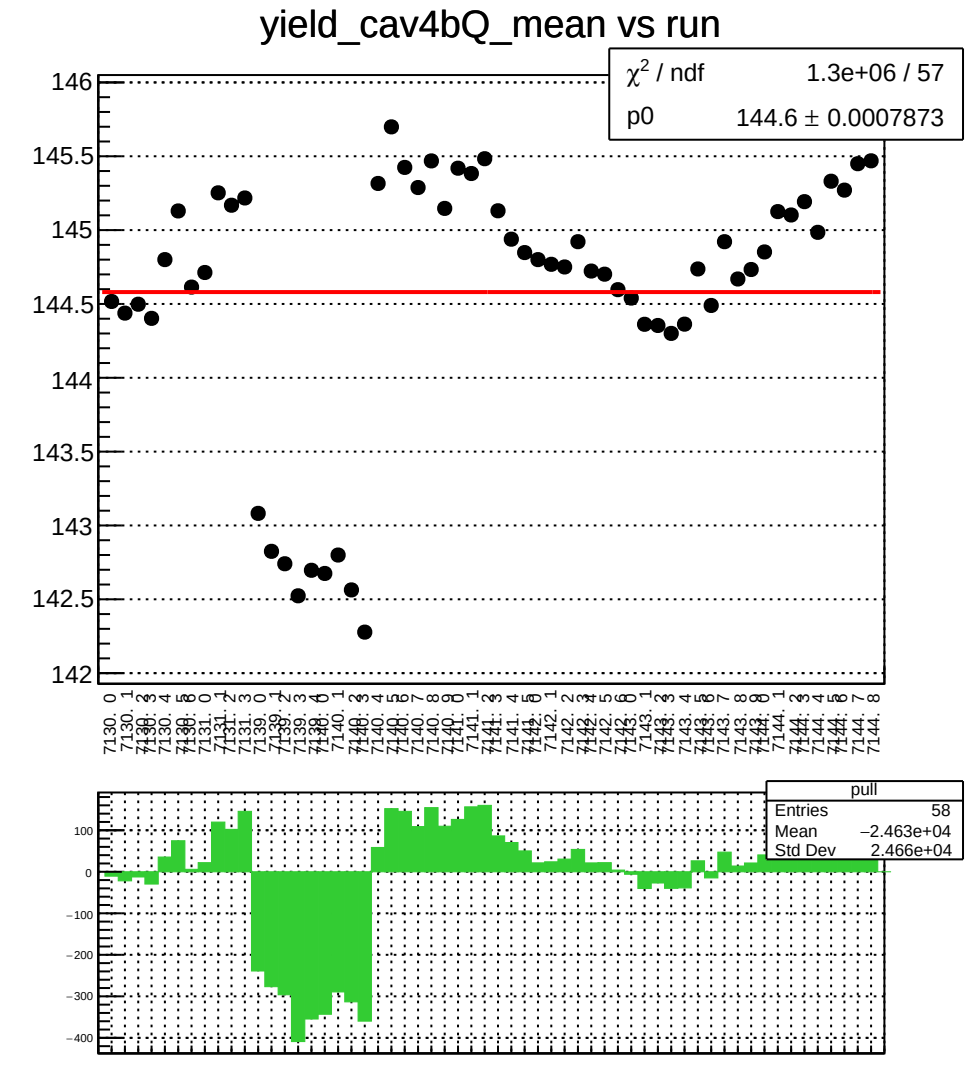

pull1D
Entries 58
Mean 6.25
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

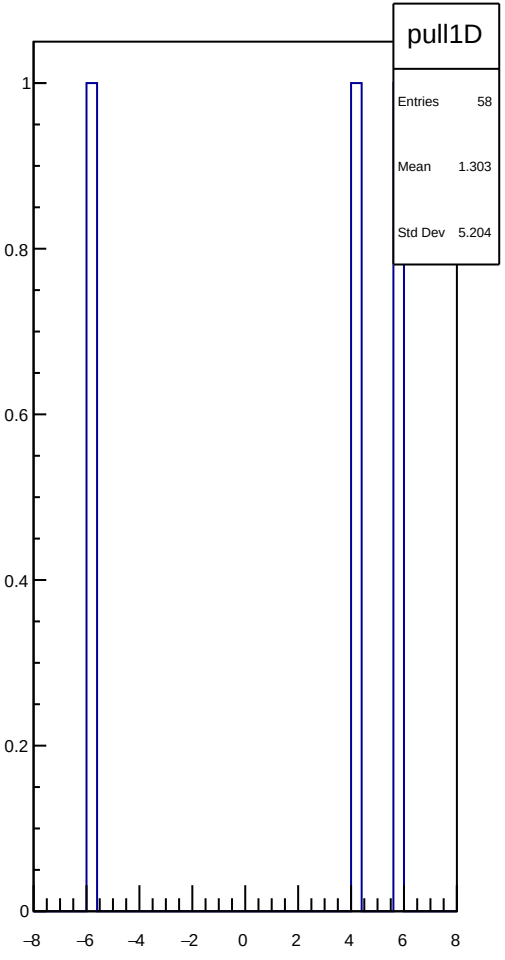

yield_bcm_dg_us_rms vs run
χ² / ndf 1.312e+04 / 57
p0 0.5275 ± 0.0005041
0.65
0.6
0.55
0.5
0.45
0.4

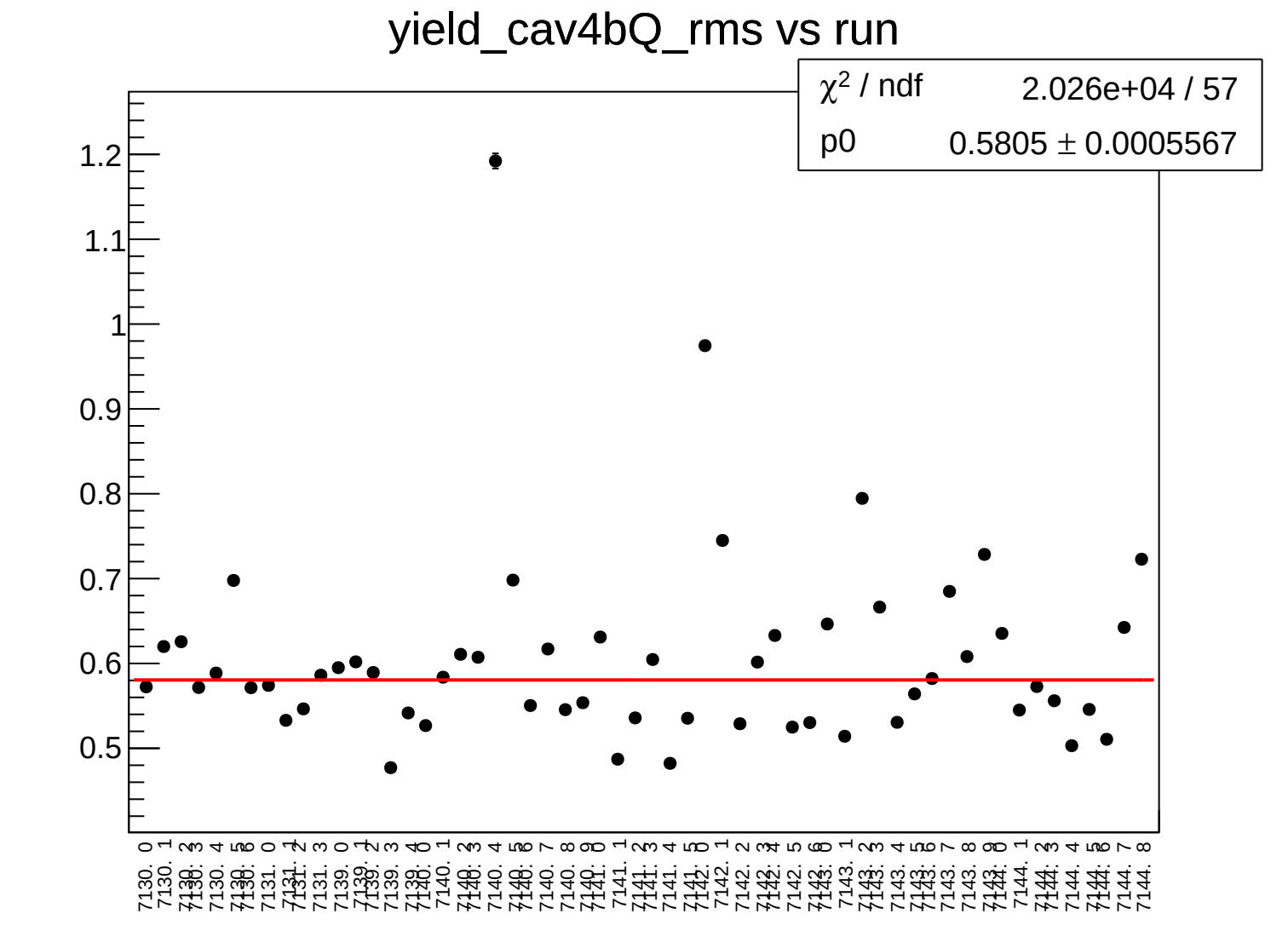

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.188e+06 / 57
p0 143.4 ± 0.0007181
145.5
145
144.5
144
143.5
143
pull
Entries 58
Mean −734.4
Std Dev 757
400
300
200
100
0
−100

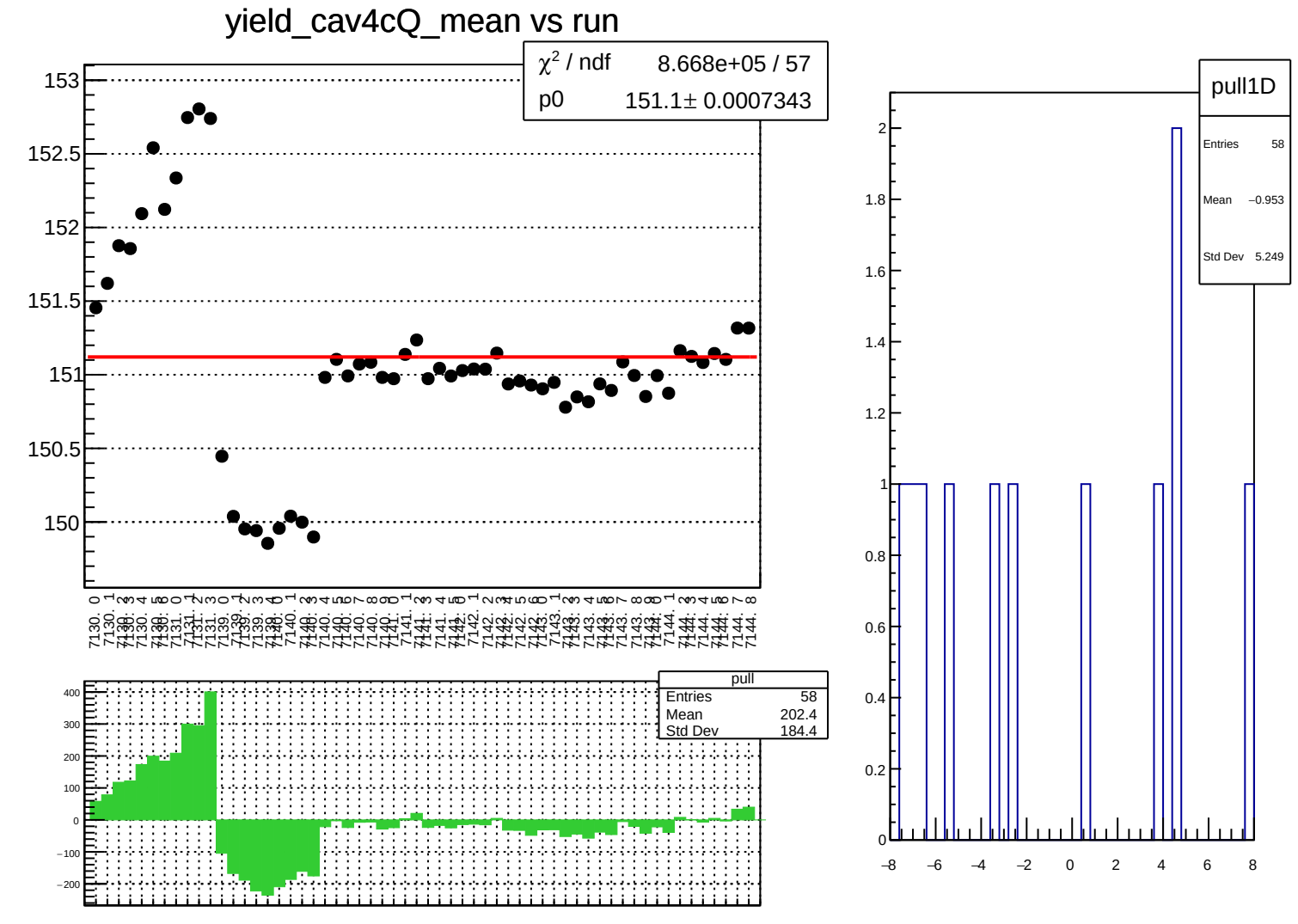

pull1D
Entries 58
Mean 4.021
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

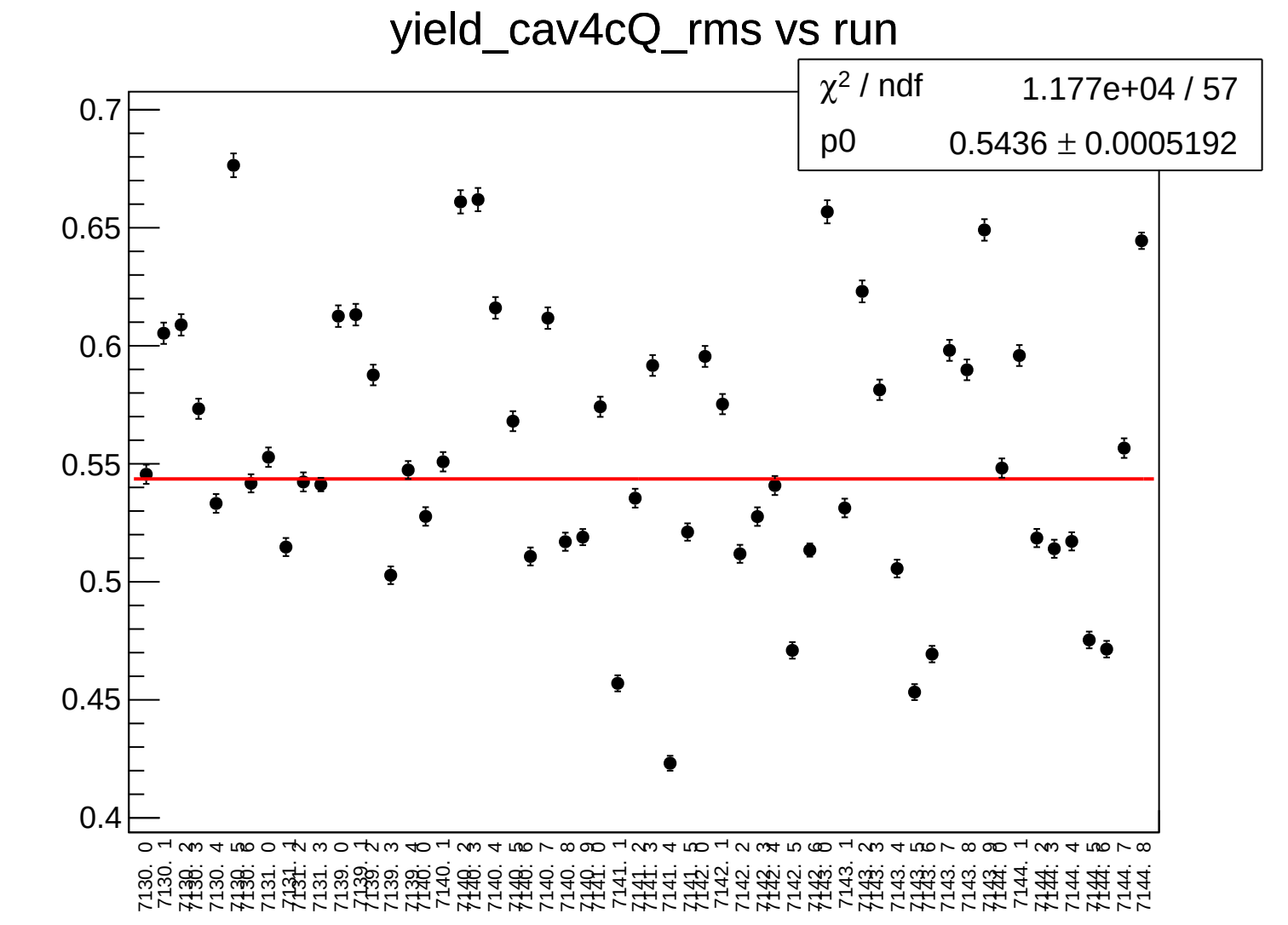

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.286e+04 / 57
p0 0.5313 ± 0.0005078
0.65
0.6
0.55
0.5
0.45
0.4

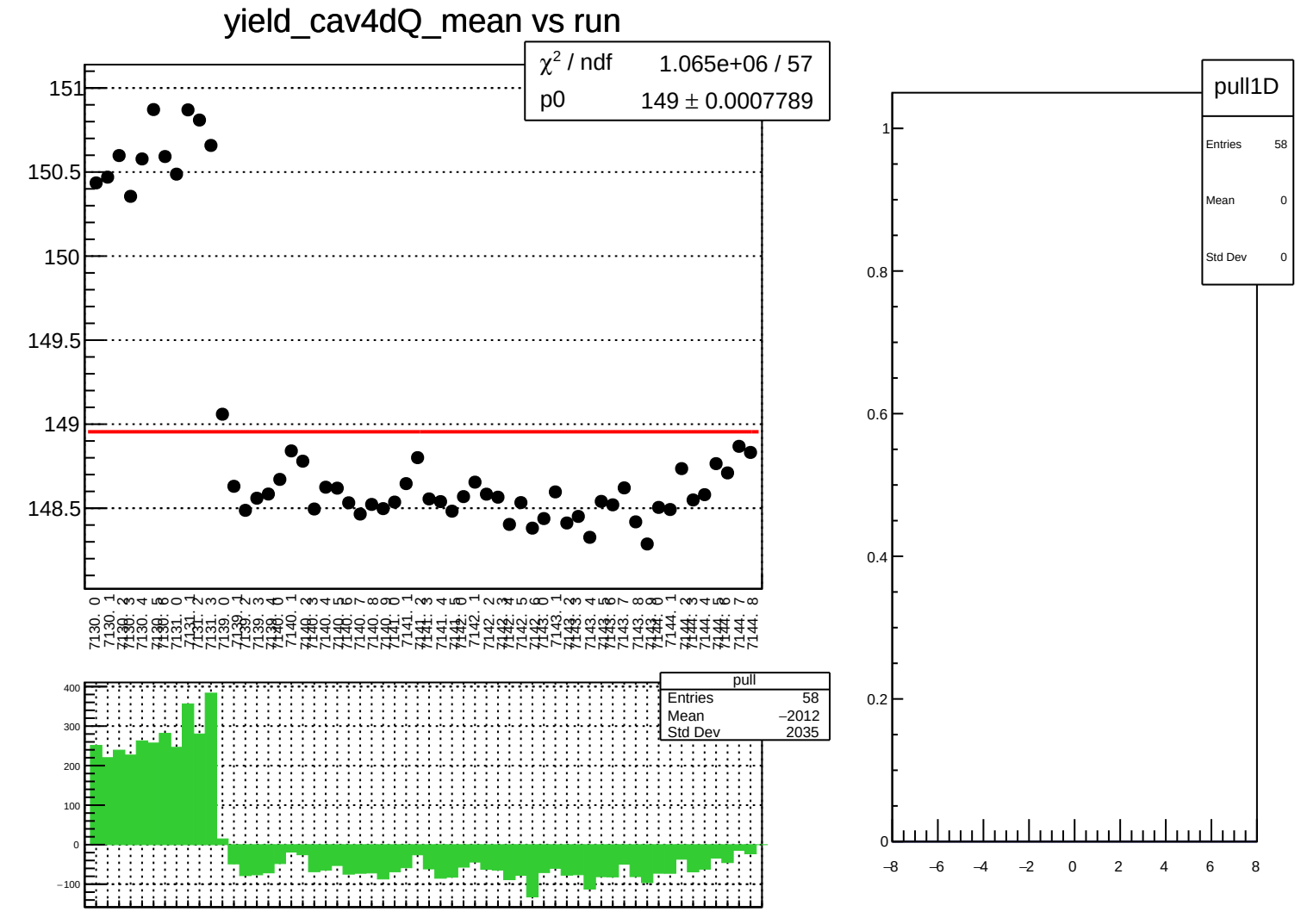

yield_cav4bQ_mean vs run
χ² / ndf 1.3e+06 / 57
p0 144.6 ± 0.0007873
pull
Entries 58
Mean −2.463e+04
Std Dev 2.466e+04

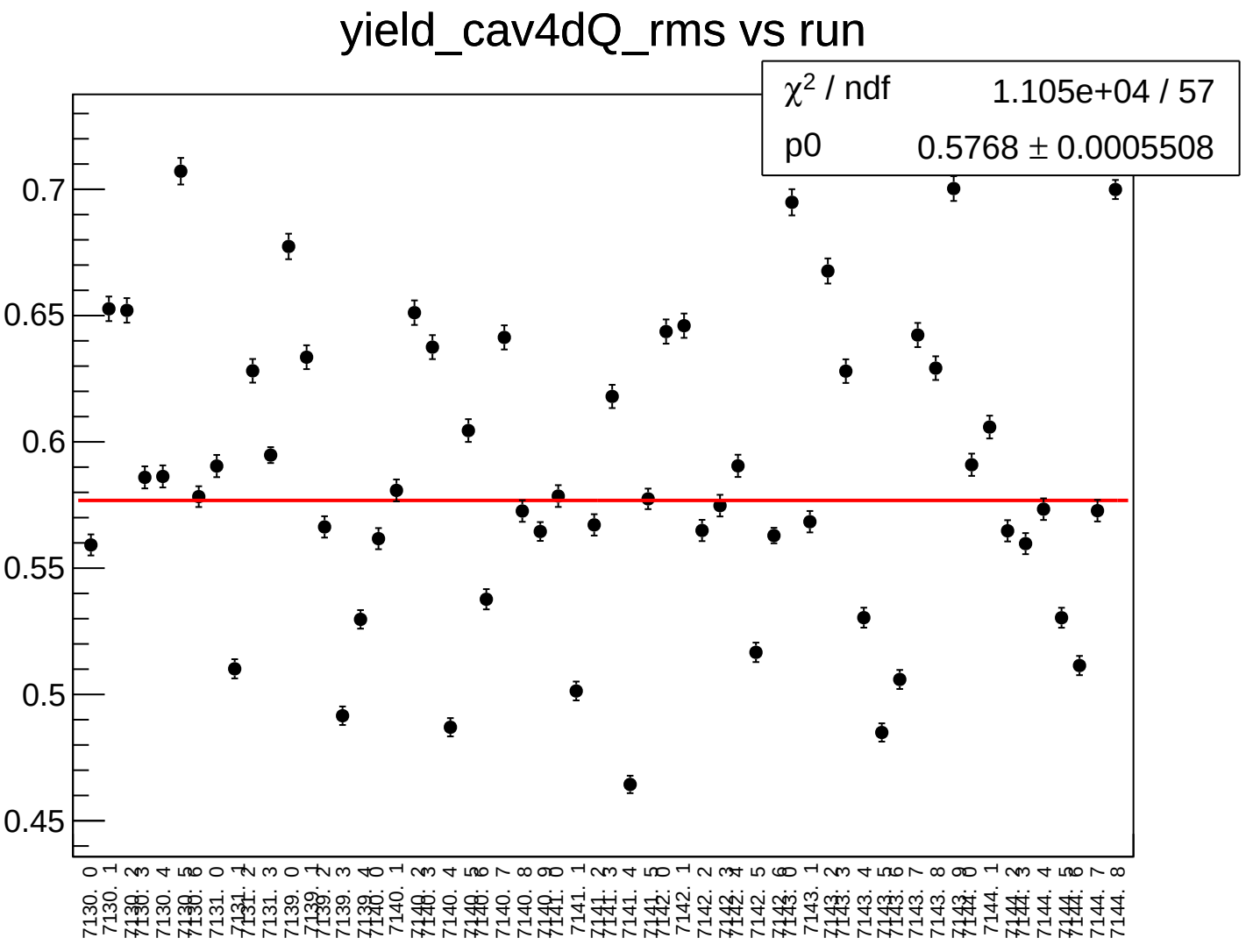

pull1D
Entries 58
Mean 1.303
Std Dev 5.204

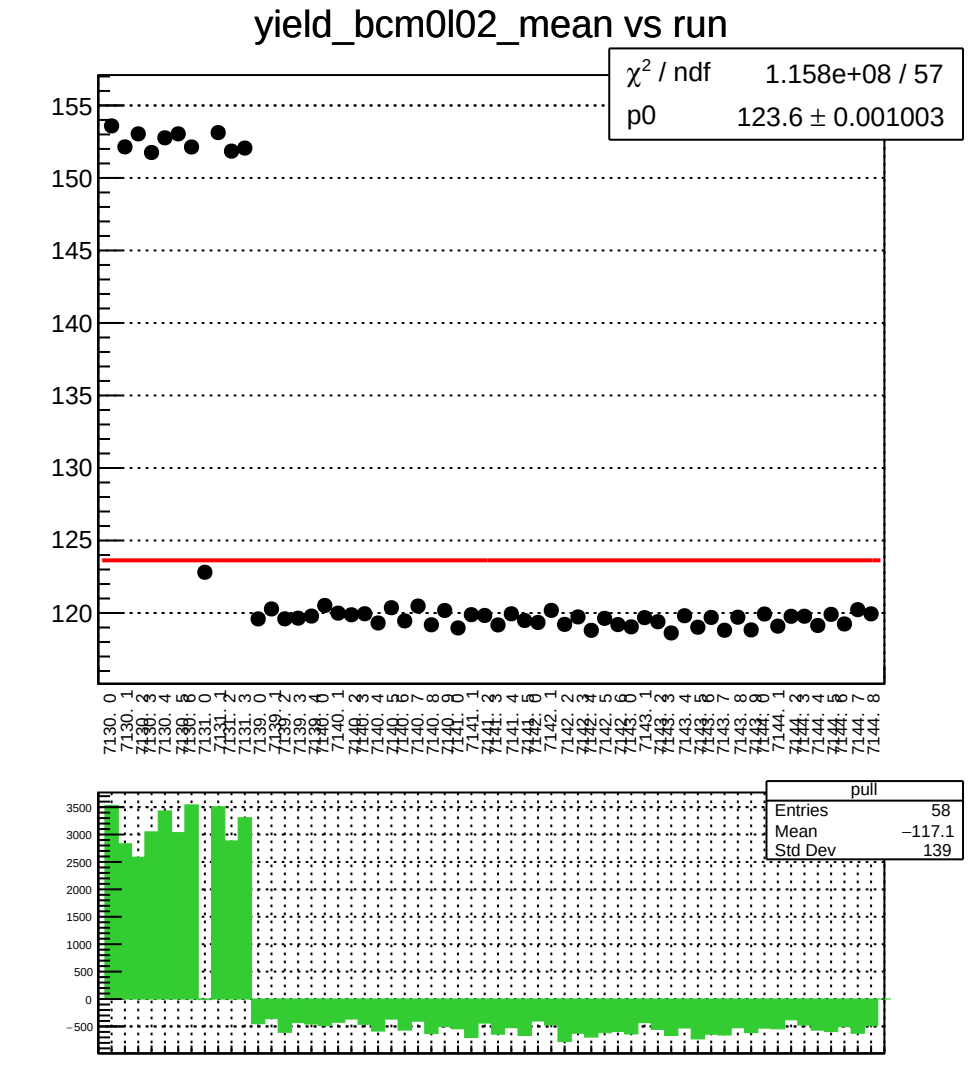

yield_cav4bQ_rms vs run
χ^2 / ndf 2.026e+04 / 57
p0 0.5805 ± 0.0005567
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5

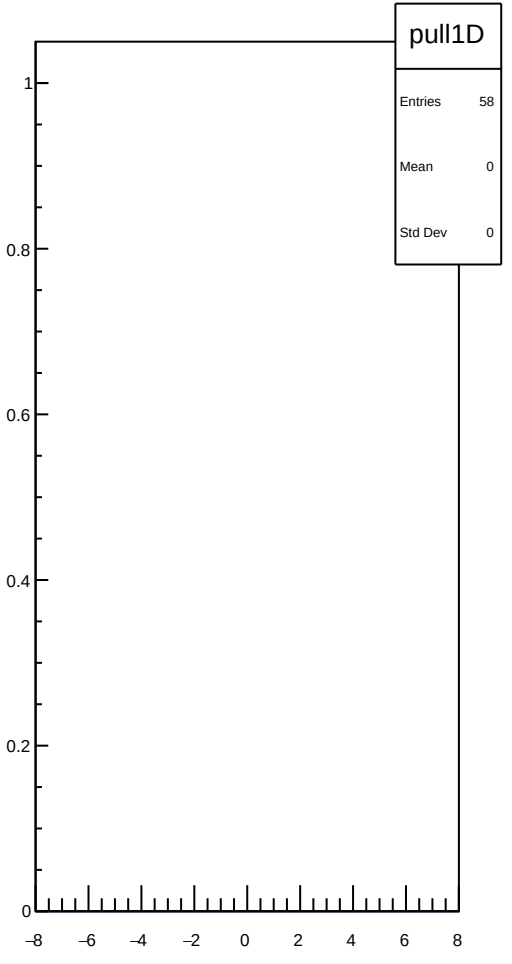

yield_cav4cQ_mean vs run
χ² / ndf 8.668e+05 / 57
p0 151.1± 0.0007343
153
152.5
152
151.5
151
150.5
150
pull
Entries 58
Mean 202.4
Std Dev 184.4
400
300
200
100
0
−100
−200
pull1D
Entries 58
Mean −0.953
Std Dev 5.249
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

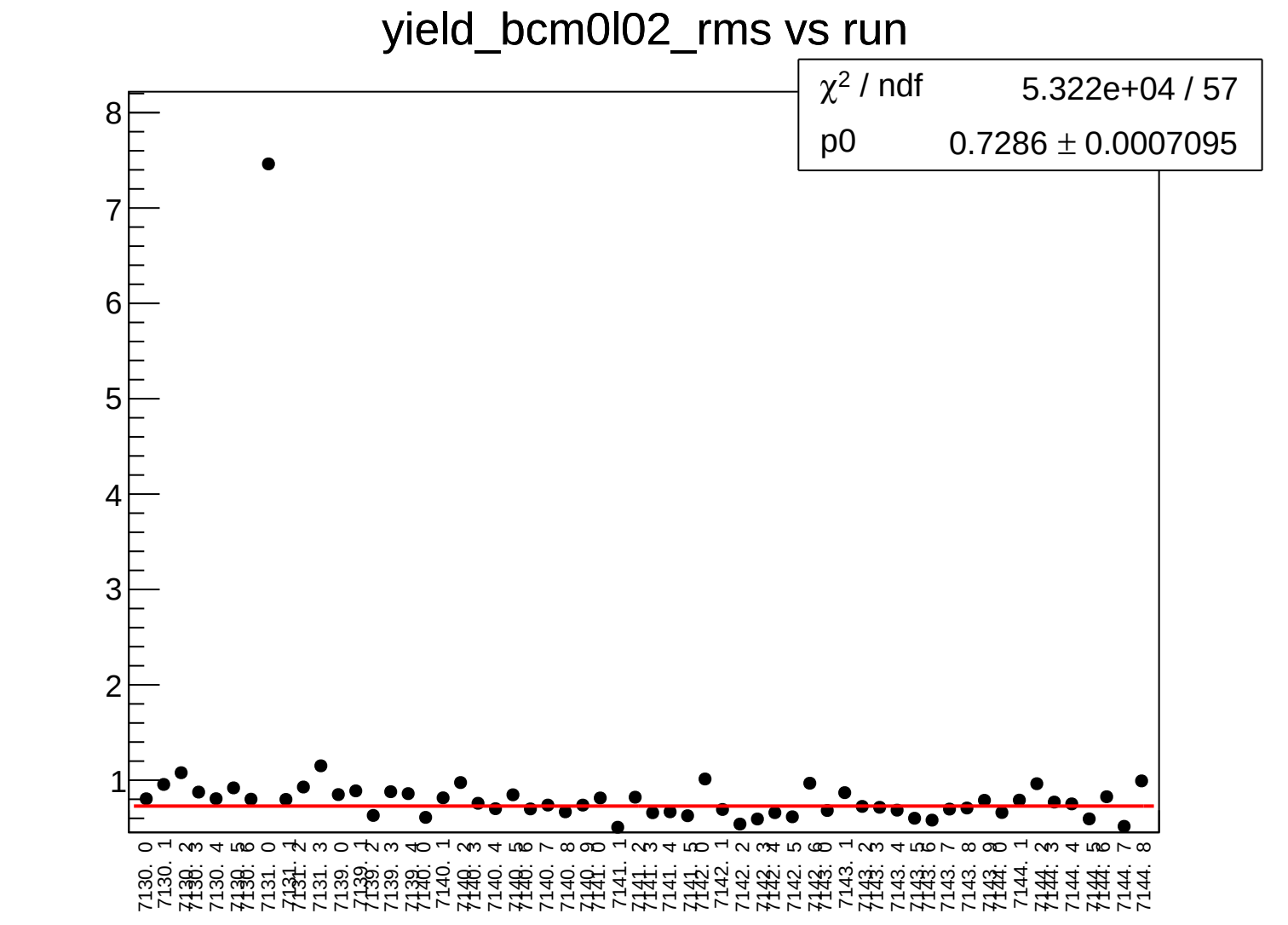

yield_cav4cQ_rms vs run
χ² / ndf 1.177e+04 / 57
p0 0.5436 ± 0.0005192
0.7
0.65
0.6
0.55
0.5
0.45
0.4

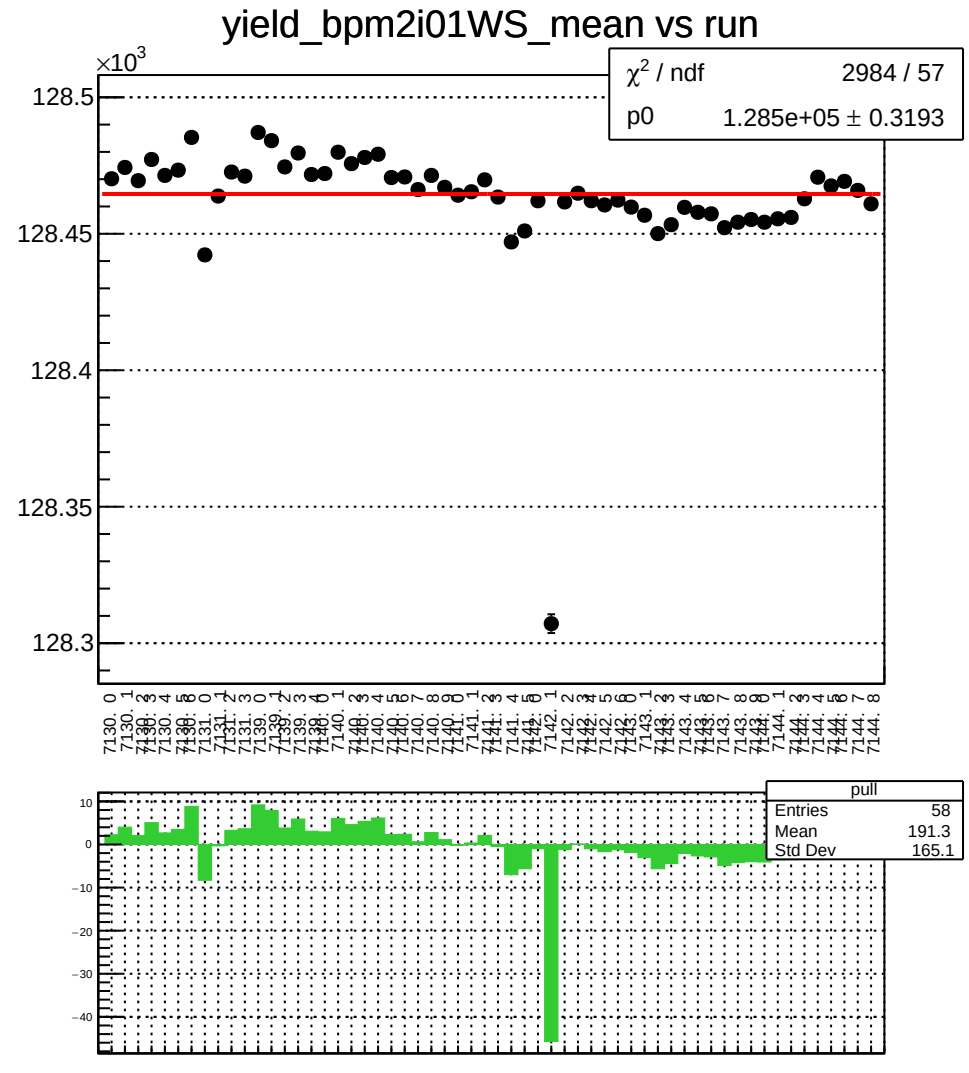

yield_cav4dQ_mean vs run
χ² / ndf 1.065e+06 / 57
p0 149 ± 0.0007789
151
150.5
150
149.5
149
148.5
pull
Entries 58
Mean −2012
Std Dev 2035
400
300
200
100
0
−100
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

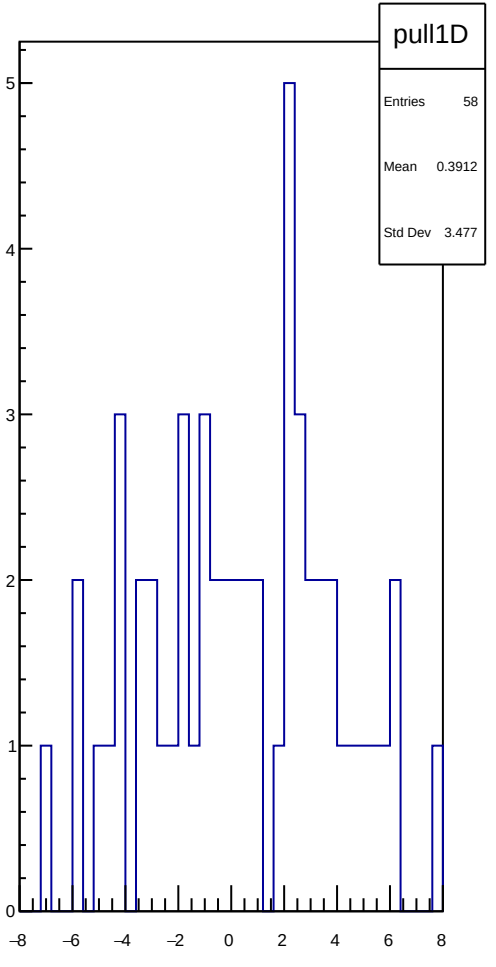

yield_cav4dQ_rms vs run
χ² / ndf 1.105e+04 / 57
p0 0.5768 ± 0.0005508
0.7
0.65
0.6
0.55
0.5
0.45

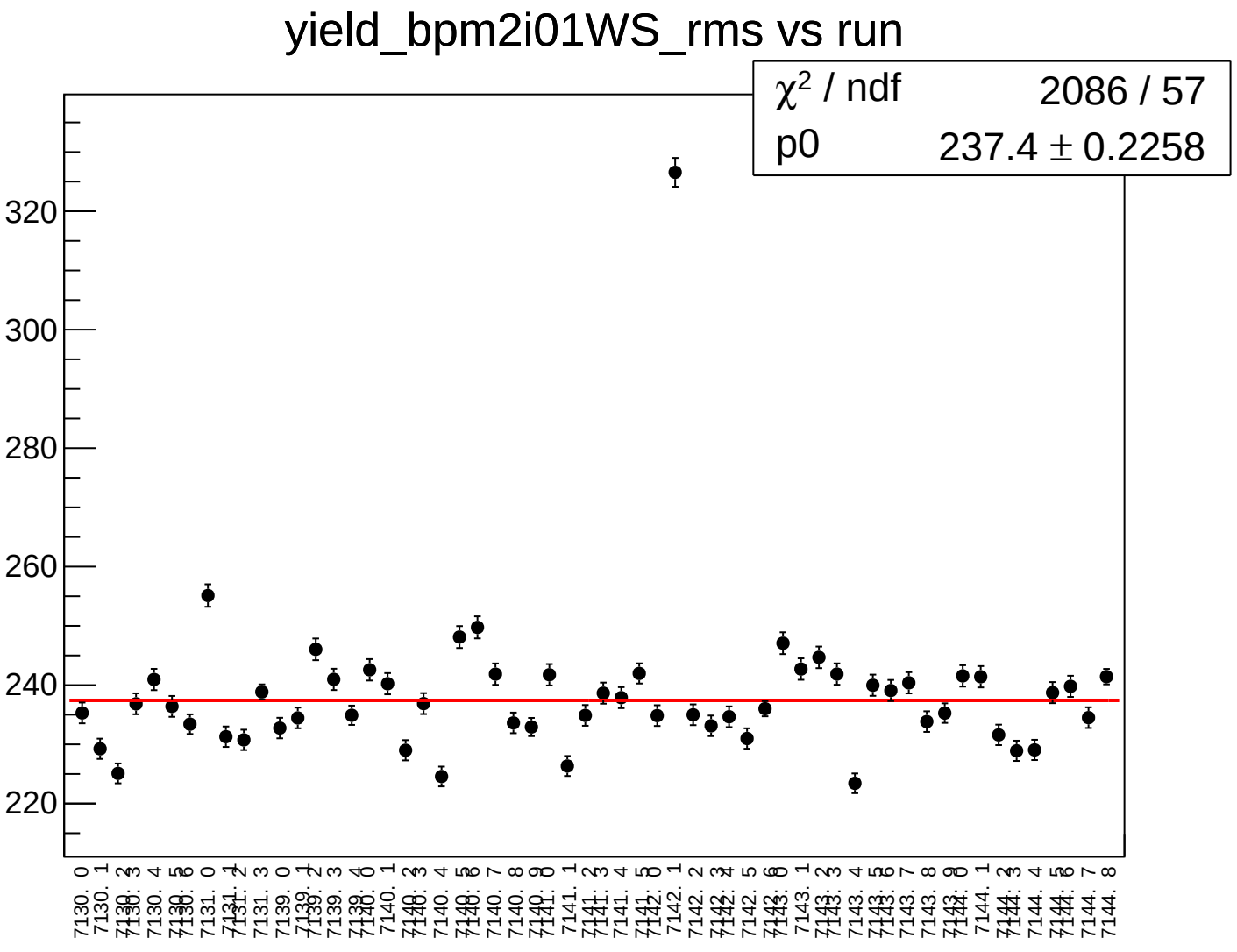

yield_bcm0l02_mean vs run
χ² / ndf 1.158e+08 / 57
p0 123.6 ± 0.001003
155
150
145
140
135
130
125
120
pull
Entries 58
Mean −117.1
Std Dev 139
3500
3000
2500
2000
1500
1000
500
0
−500

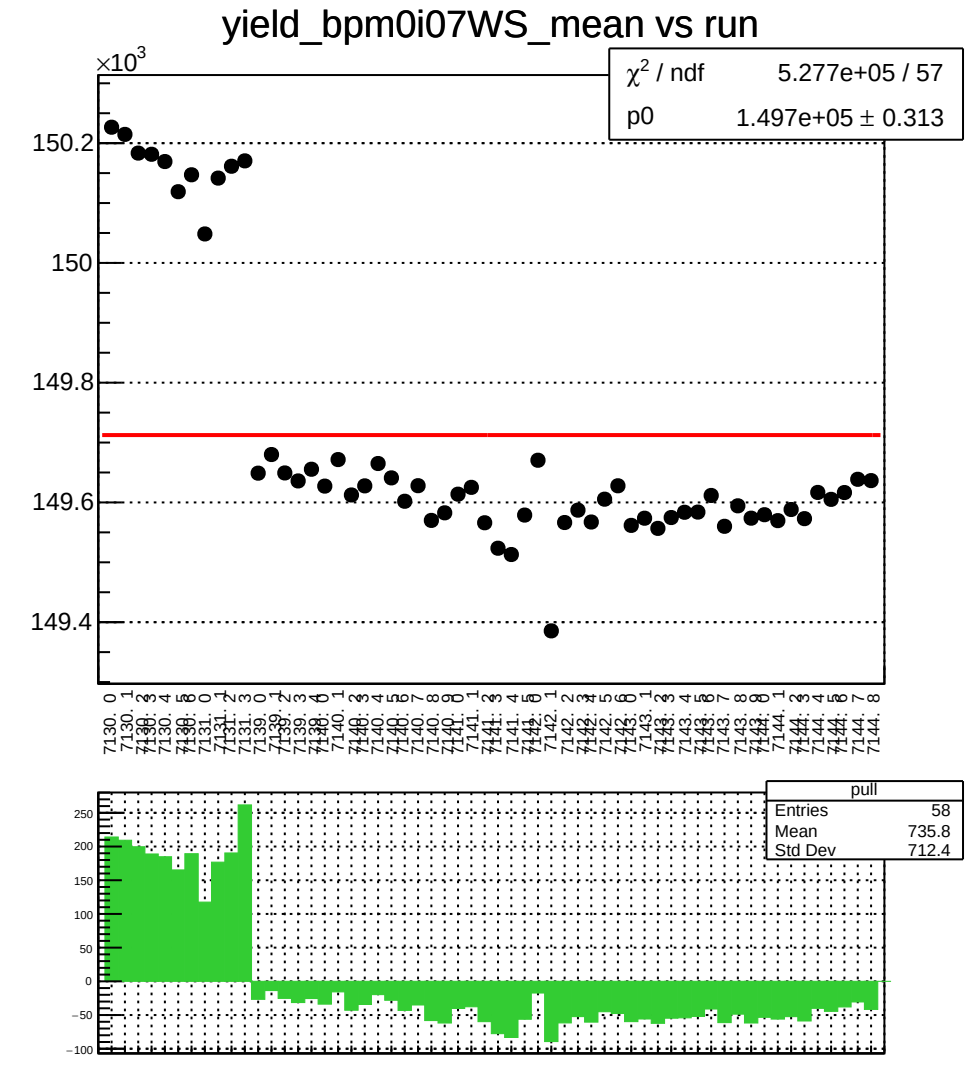

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

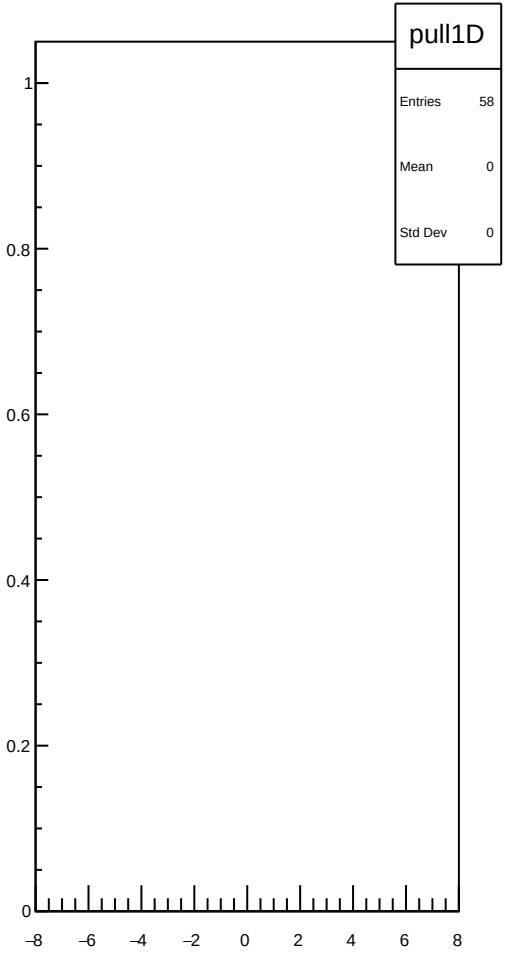

yield_bcm0l02_rms vs run
χ^2 / ndf 5.322e+04 / 57
p0 0.7286 ± 0.0007095
8
7
6
5
4
3
2
1

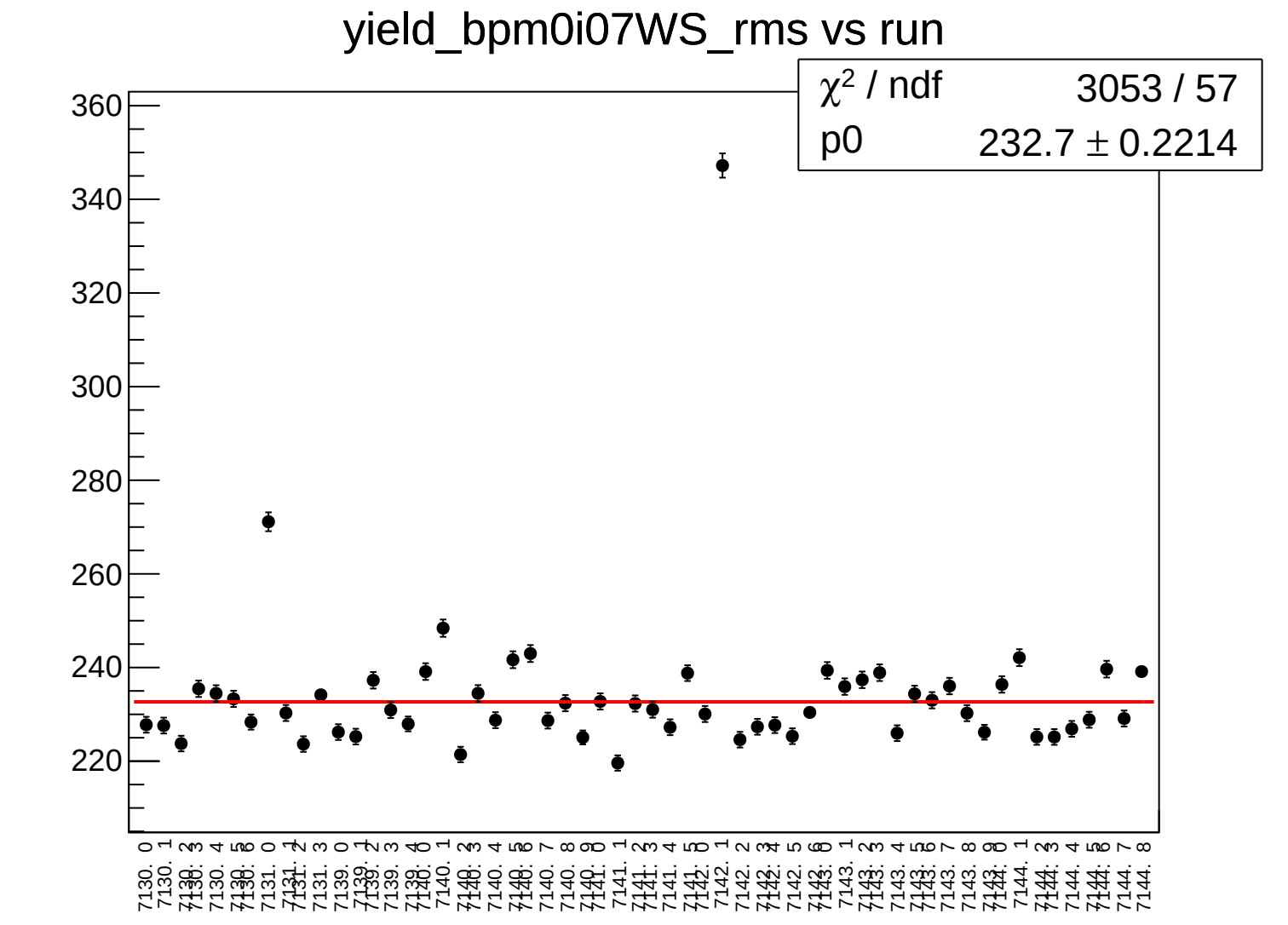

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2984 / 57
p0 1.285e+05 ± 0.3193
128.5
128.45
128.4
128.35
128.3
pull
Entries 58
Mean 191.3
Std Dev 165.1
10
0
−10
−20
−30
−40

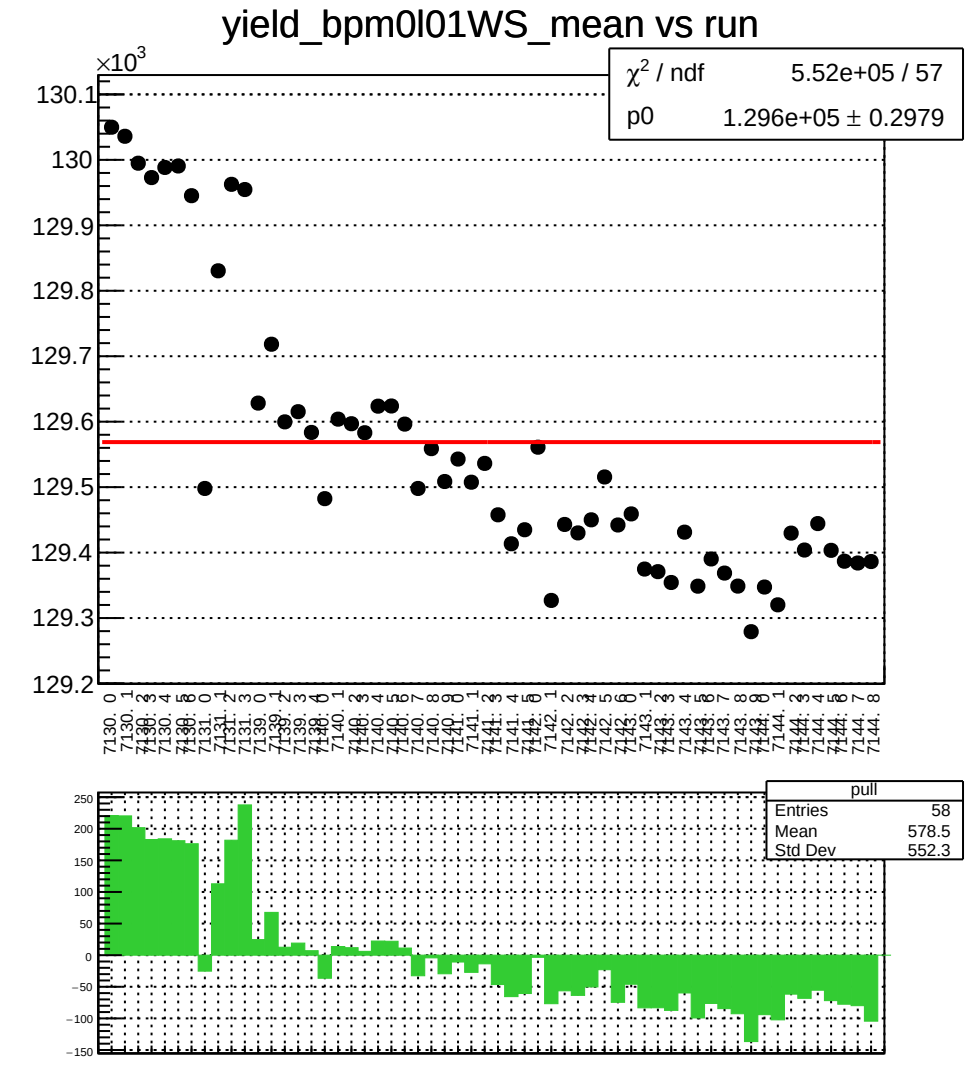

pull1D
Entries 58
Mean 0.3912
Std Dev 3.477
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

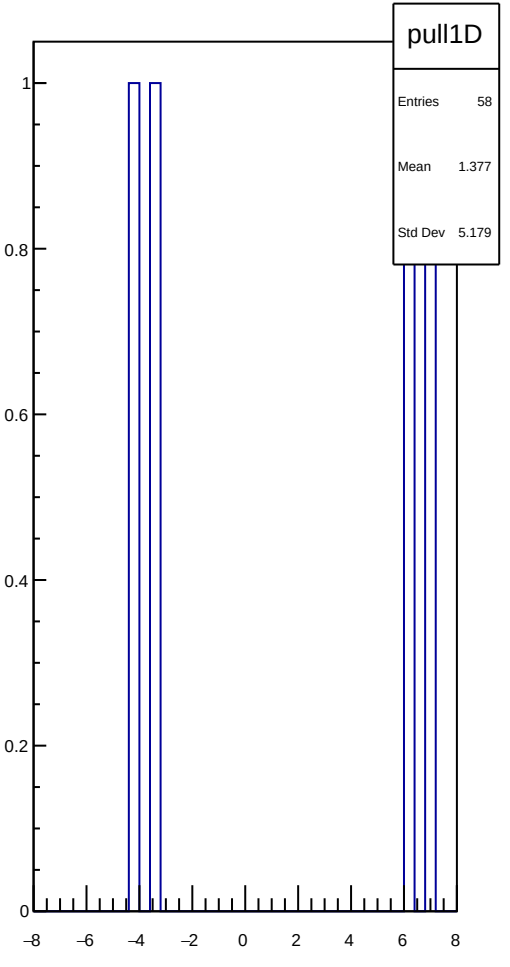

yield_bpm2i01WS_rms vs run
χ² / ndf 2086 / 57
p0 237.4 ± 0.2258
320
300
280
260
240
220

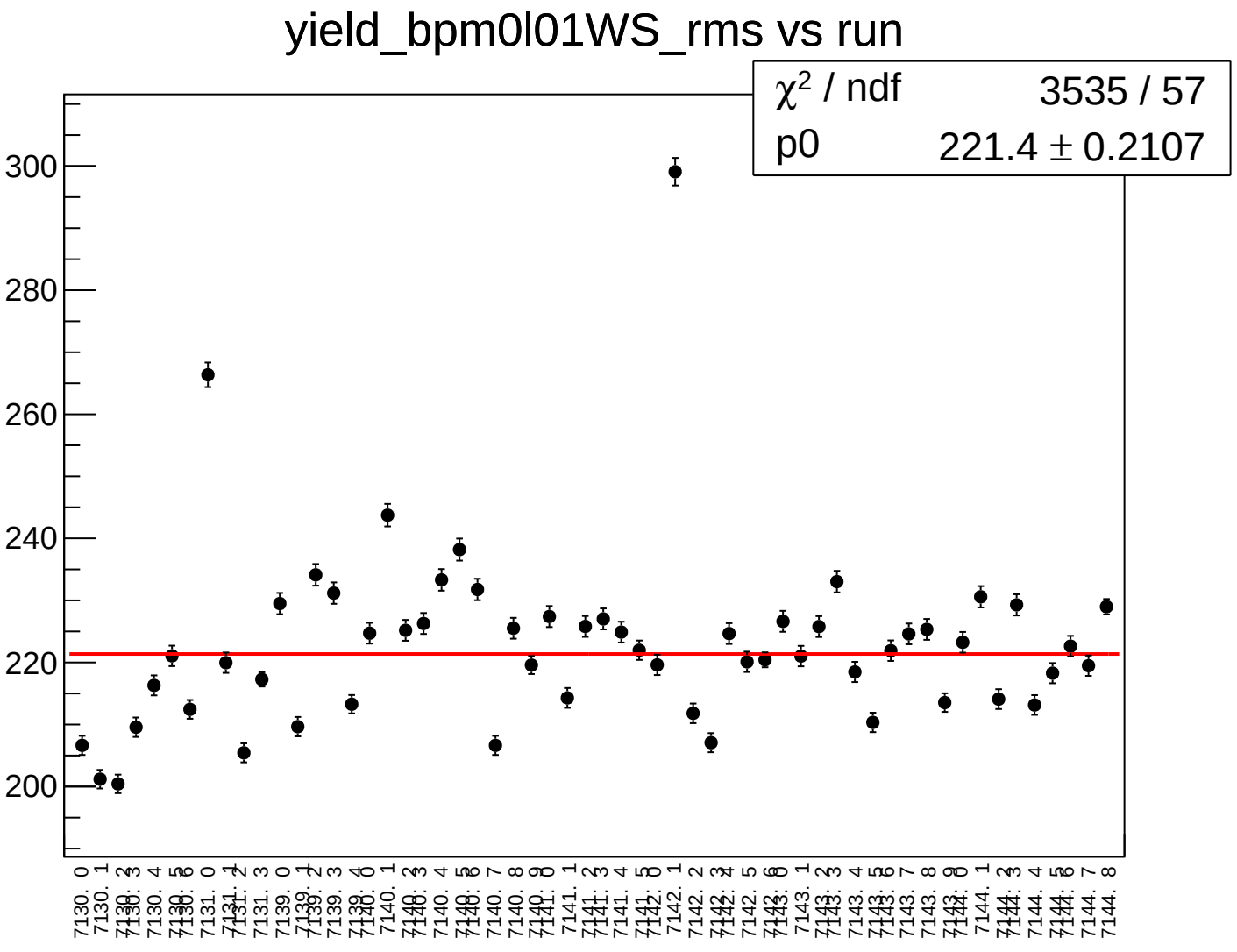

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 5.277e+05 / 57
p0 1.497e+05 ± 0.313
150.2
150
149.8
149.6
149.4
pull
Entries 58
Mean 735.8
Std Dev 712.4
250
200
150
100
50
0
−50
−100

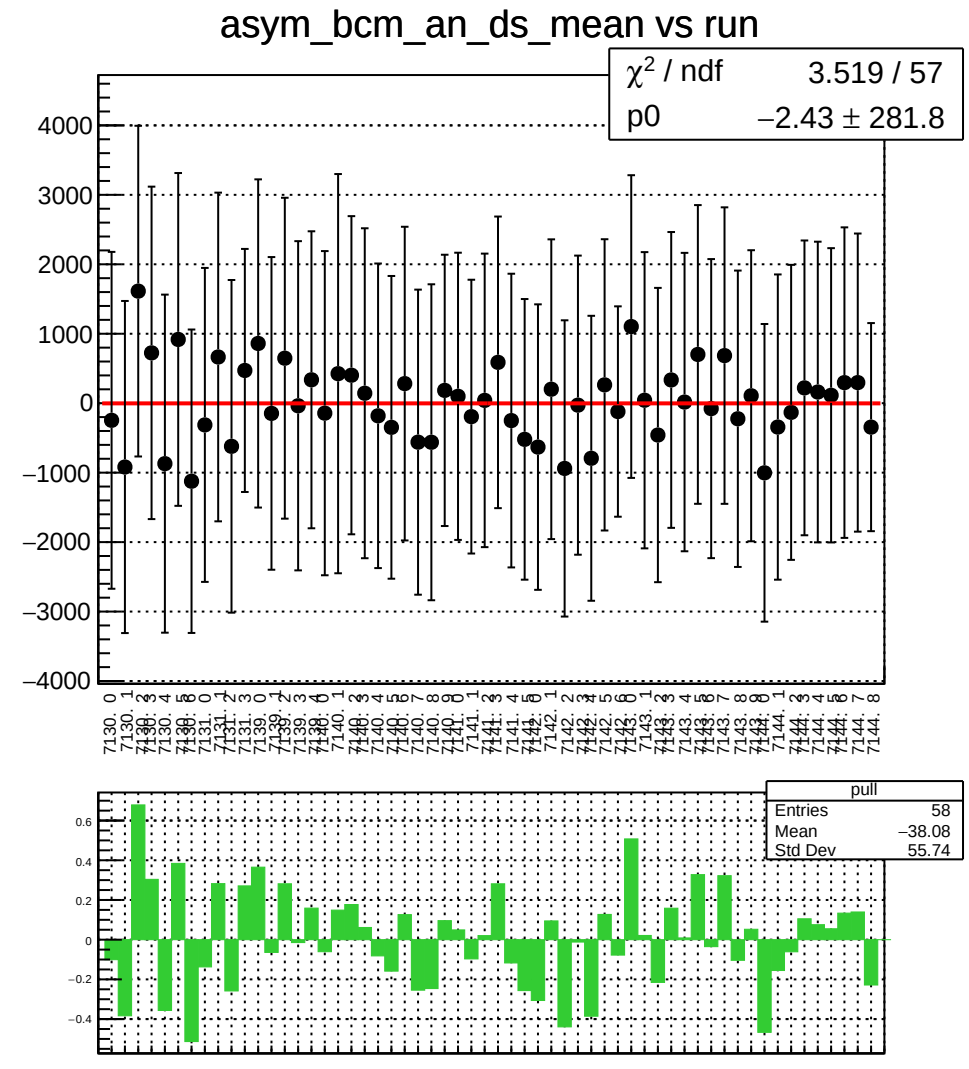

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

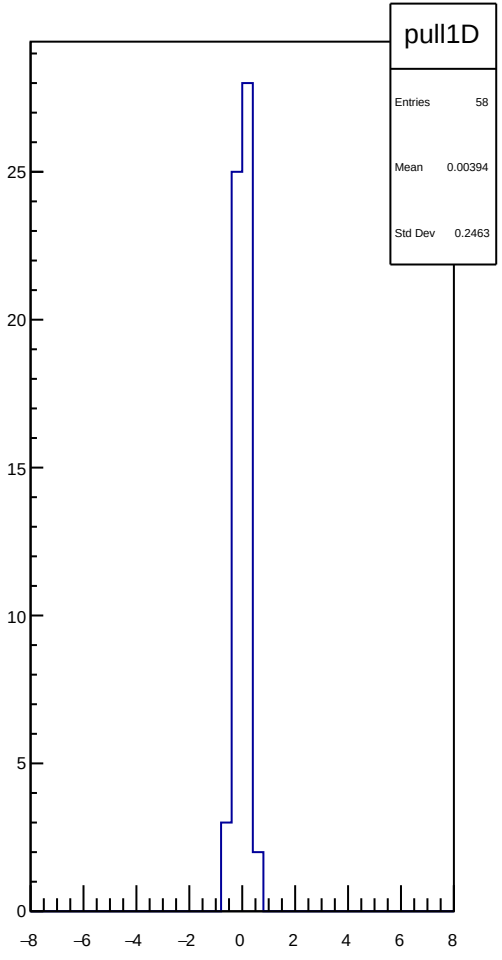

yield_bpm0i07WS_rms vs run
χ² / ndf 3053 / 57
p0 232.7 ± 0.2214
360
340
320
300
280
260
240
220

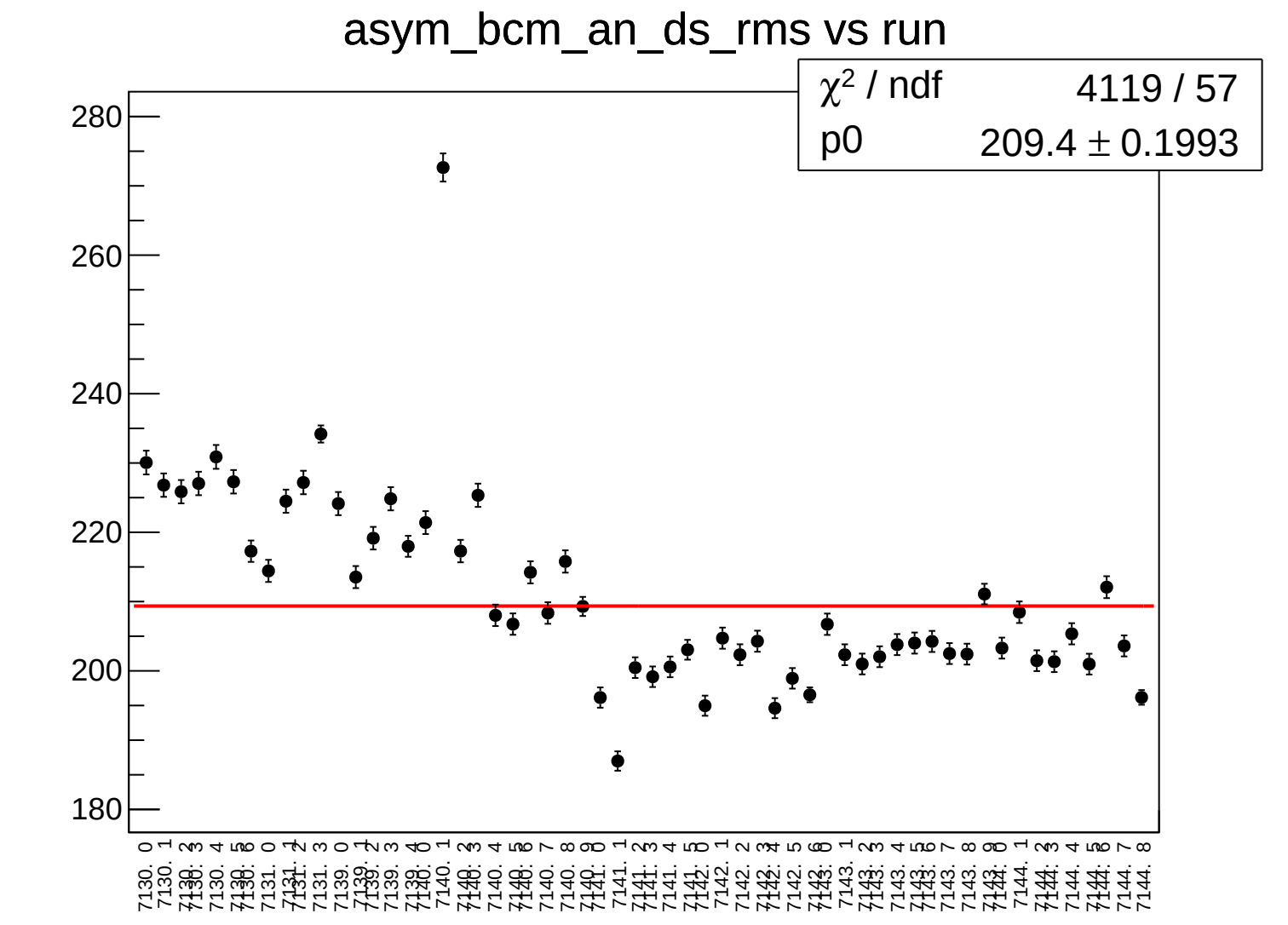

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 5.52e+05 / 57
p0 1.296e+05 ± 0.2979
130.1
130
129.9
129.8
129.7
129.6
129.5
129.4
129.3
129.2
pull
Entries 58
Mean 578.5
Std Dev 552.3
250
200
150
100
50
0
−50
−100
−150

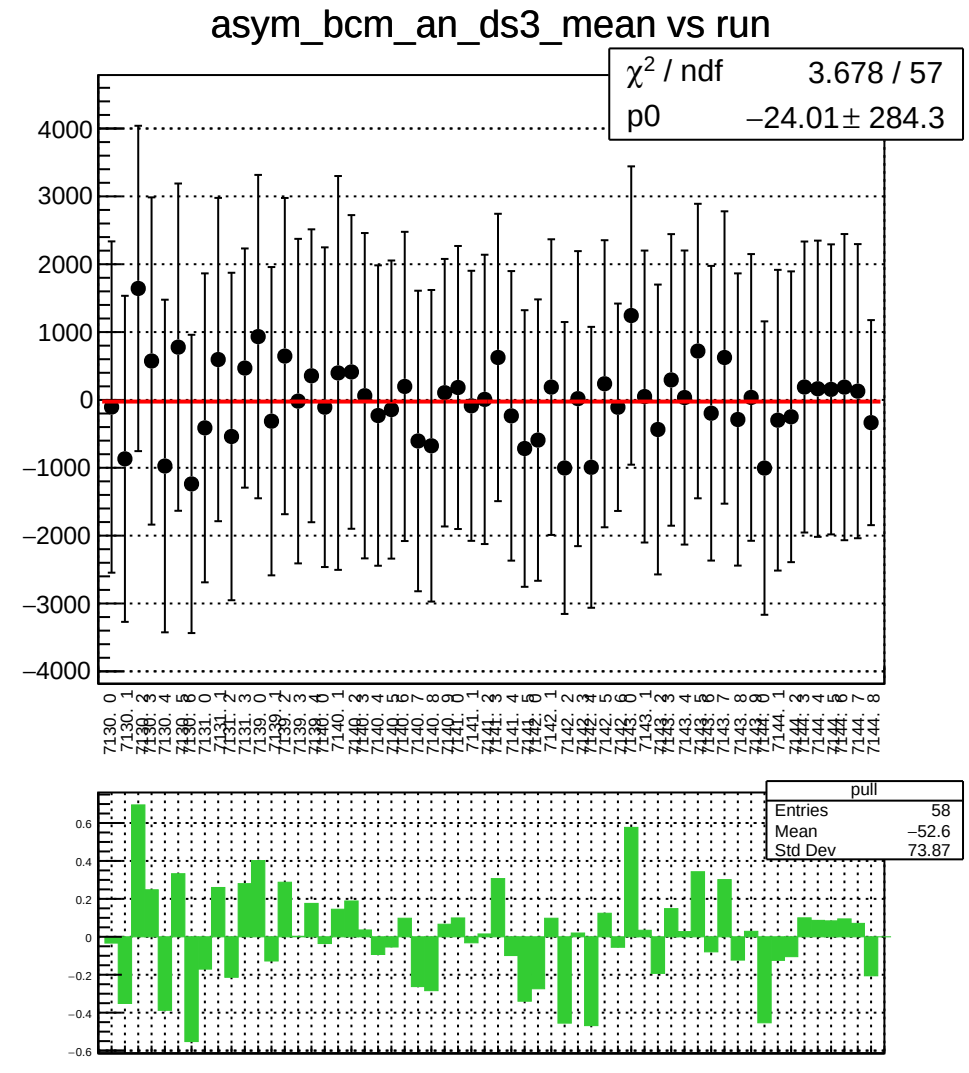

pull1D
Entries 58
Mean 1.377
Std Dev 5.179
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

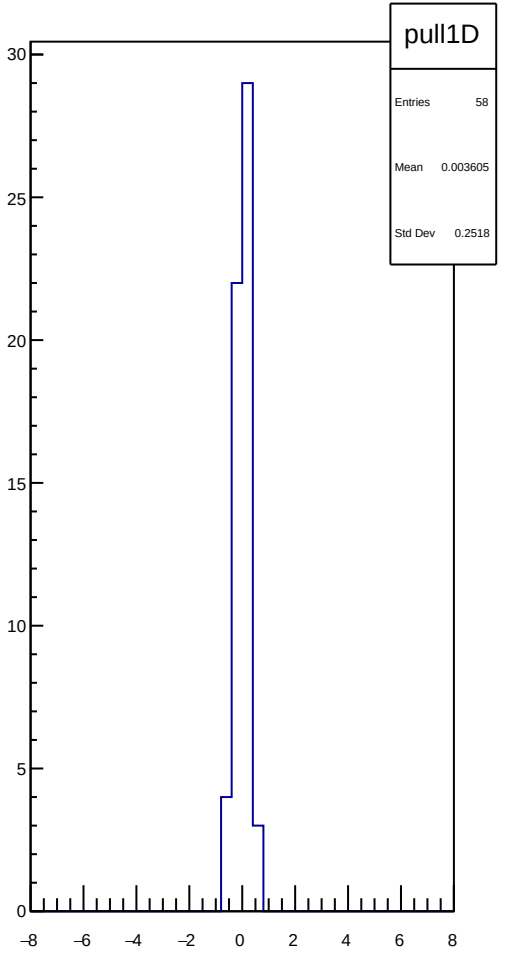

yield_bpm0l01WS_rms vs run
χ² / ndf 3535 / 57
p0 221.4 ± 0.2107
300
280
260
240
220
200

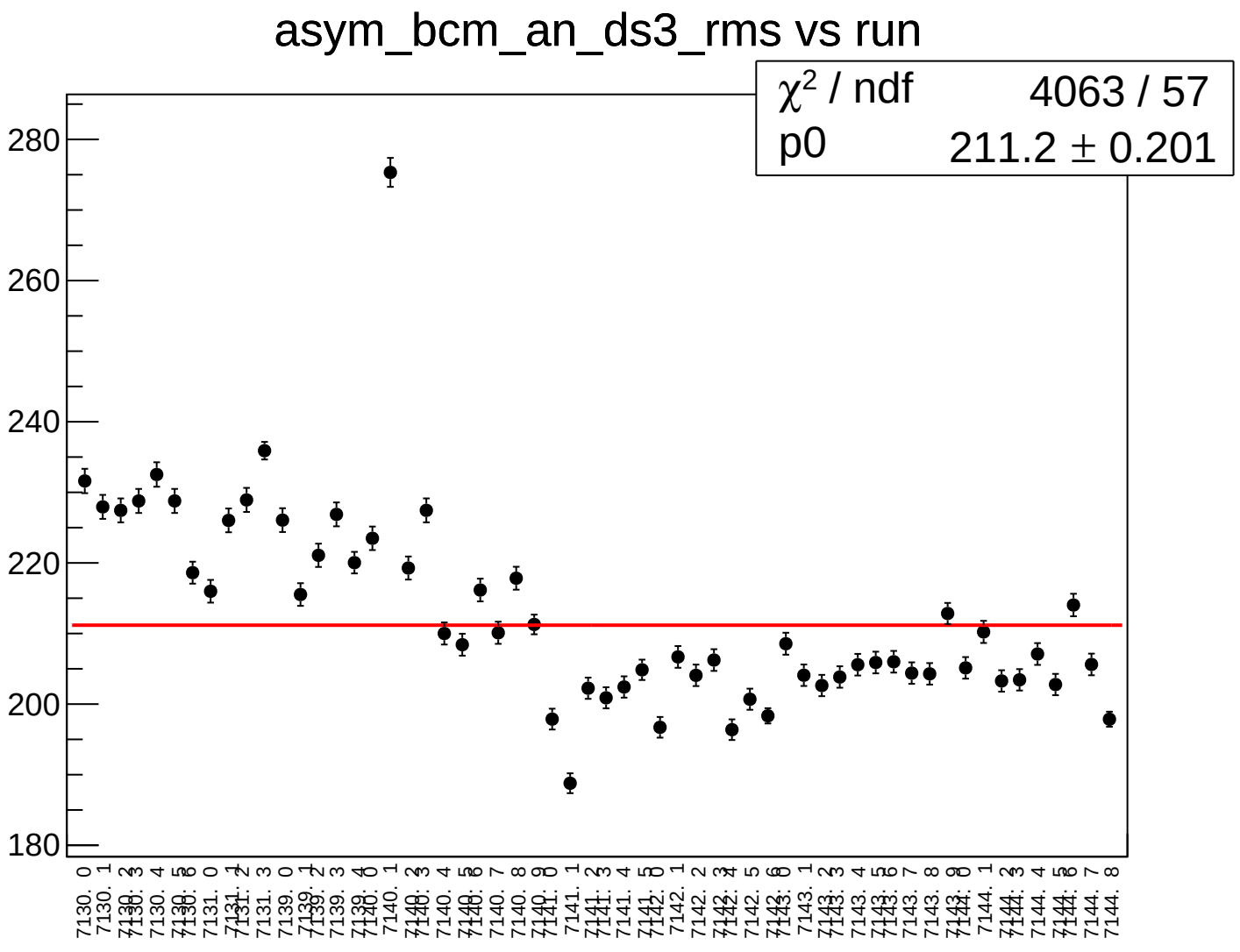

asym_bcm_an_ds_mean vs run
χ² / ndf 3.519 / 57
p0 −2.43 ± 281.8
pull
Entries 58
Mean −38.08
Std Dev 55.74

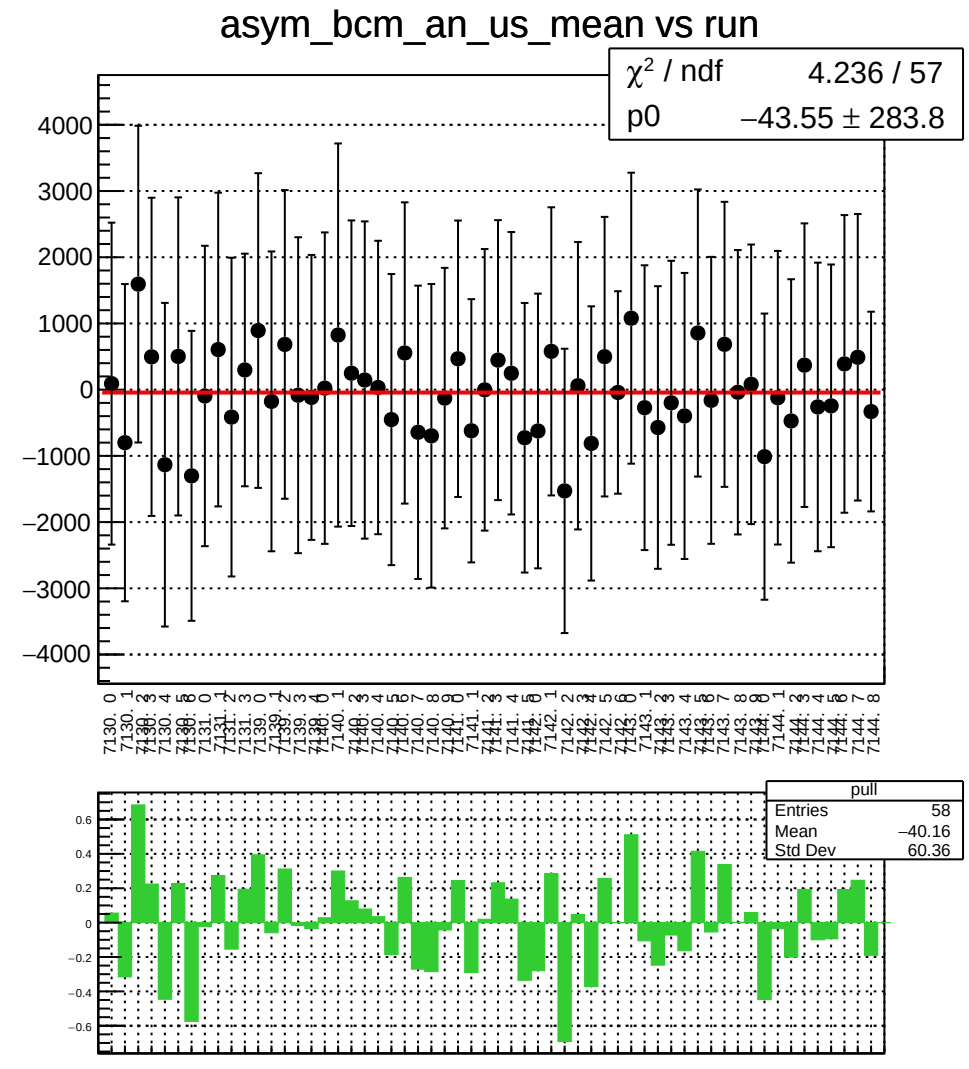

pull1D
Entries 58
Mean 0.00394
Std Dev 0.2463

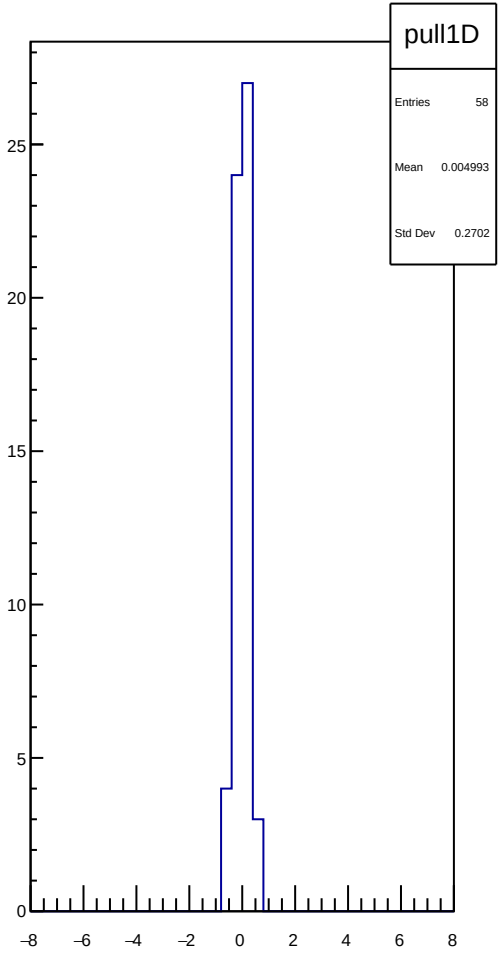

asym_bcm_an_ds_rms vs run
χ² / ndf 4119 / 57
p0 209.4 ± 0.1993
280
260
240
220
200
180

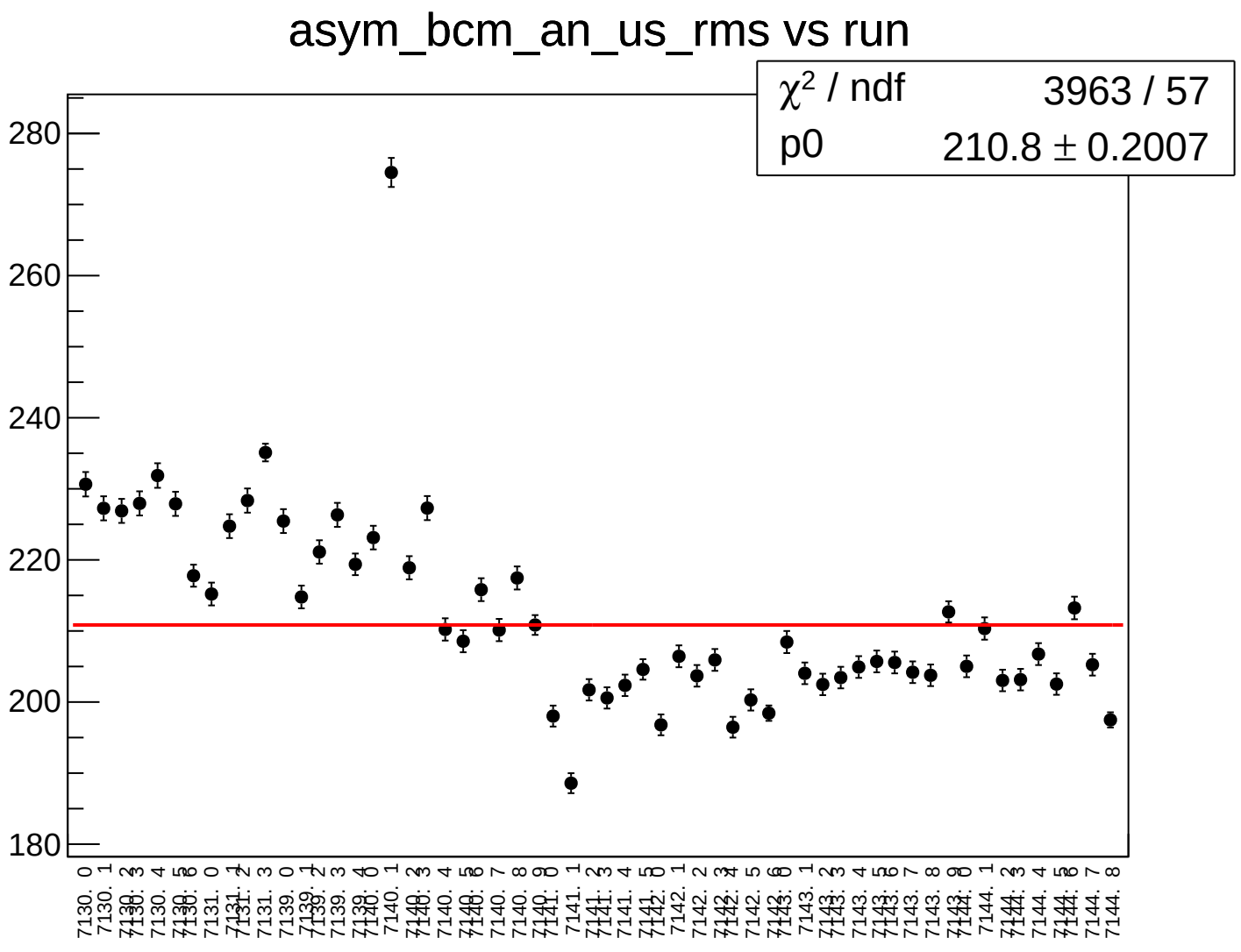

asym_bcm_an_ds3_mean vs run
χ² / ndf 3.678 / 57
p0 −24.01± 284.3
pull
Entries 58
Mean −52.6
Std Dev 73.87

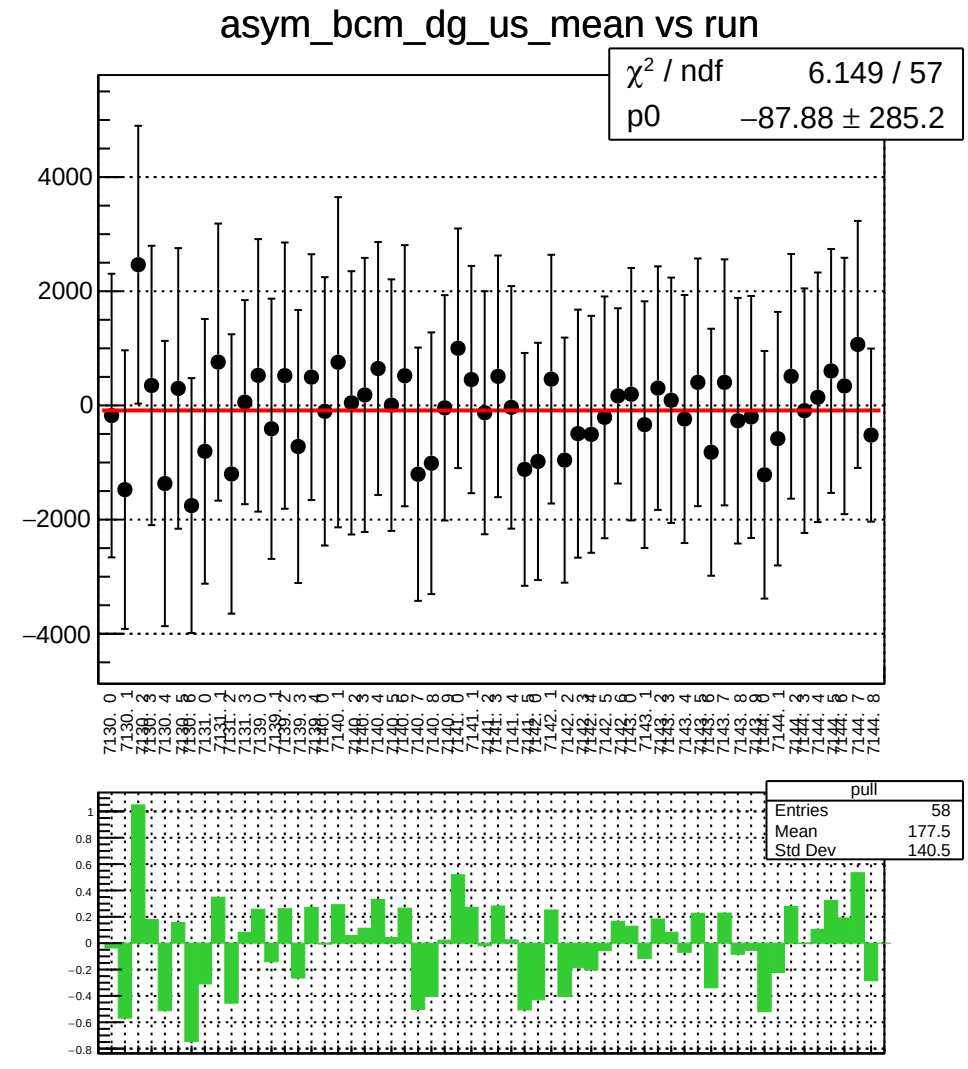

pull1D
Entries 58
Mean 0.003605
Std Dev 0.2518

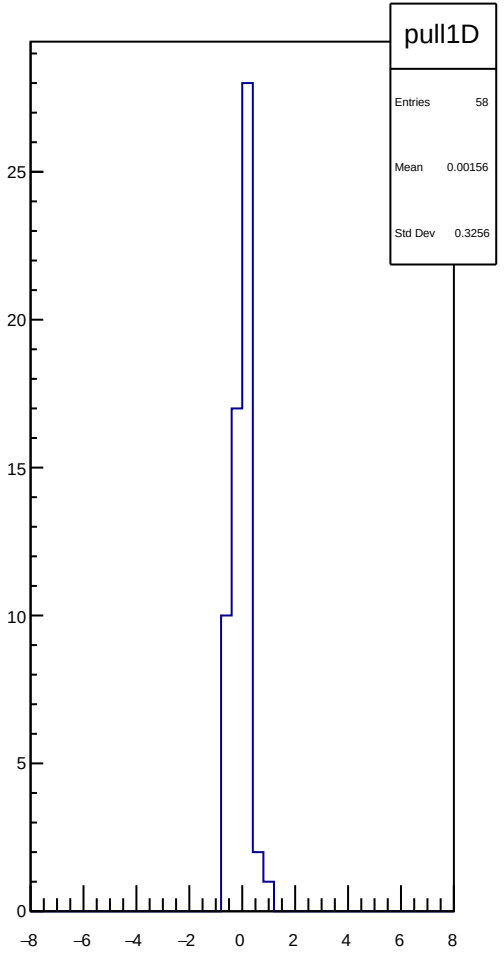

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 4063 / 57
p0 211.2 ± 0.201
280
260
240
220
200
180

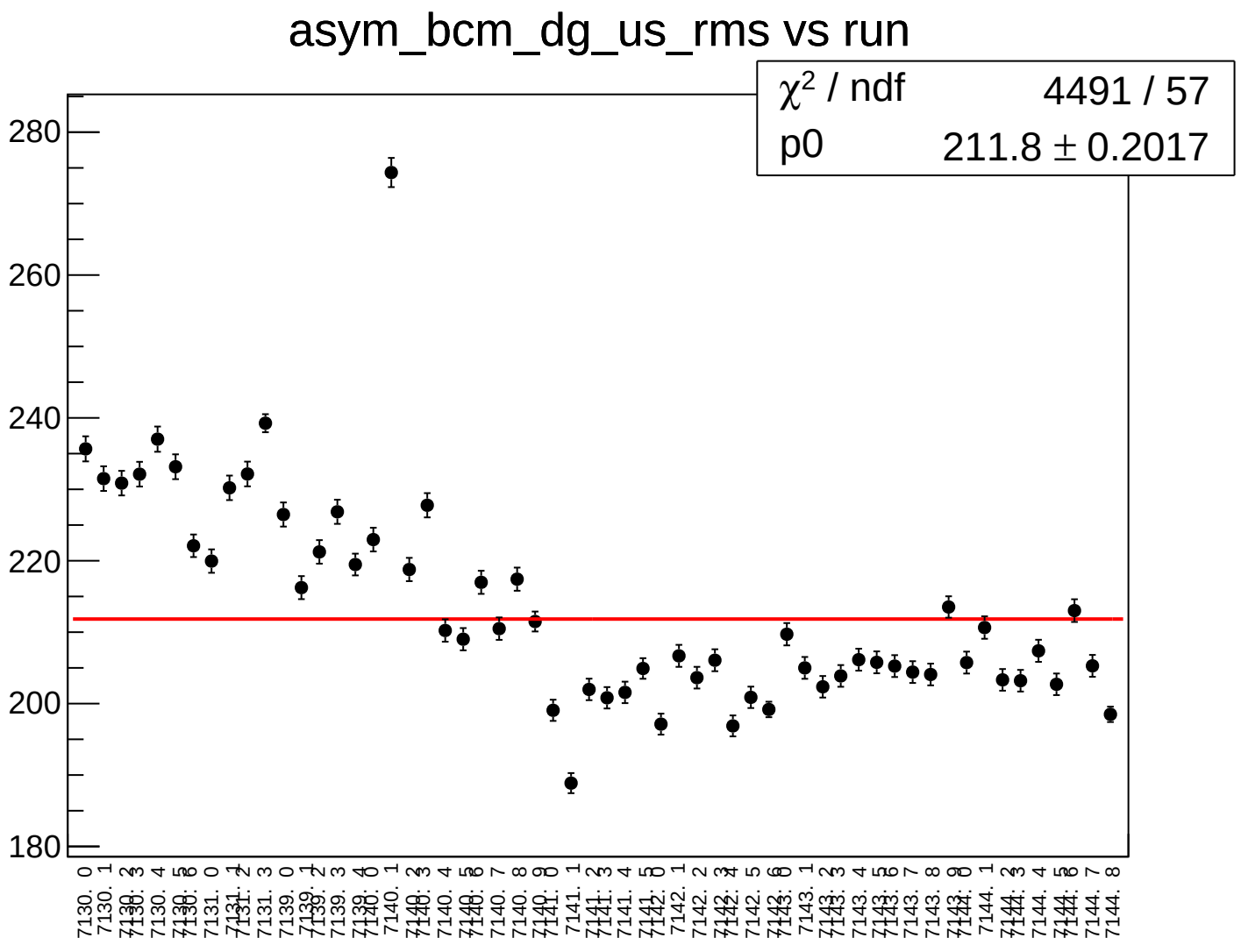

asym_bcm_an_us_mean vs run
χ² / ndf 4.236 / 57
p0 −43.55 ± 283.8
pull
Entries 58
Mean −40.16
Std Dev 60.36

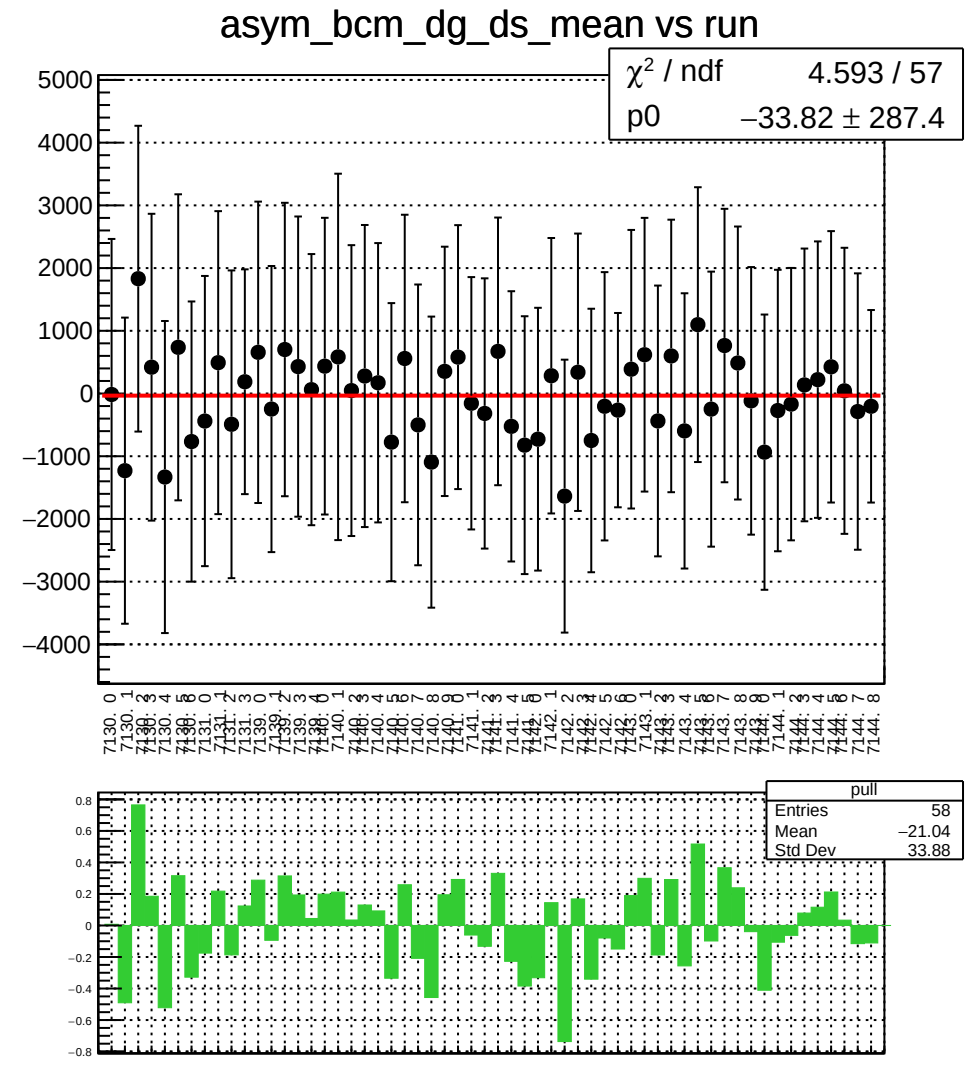

pull1D
Entries 58
Mean 0.004993
Std Dev 0.2702

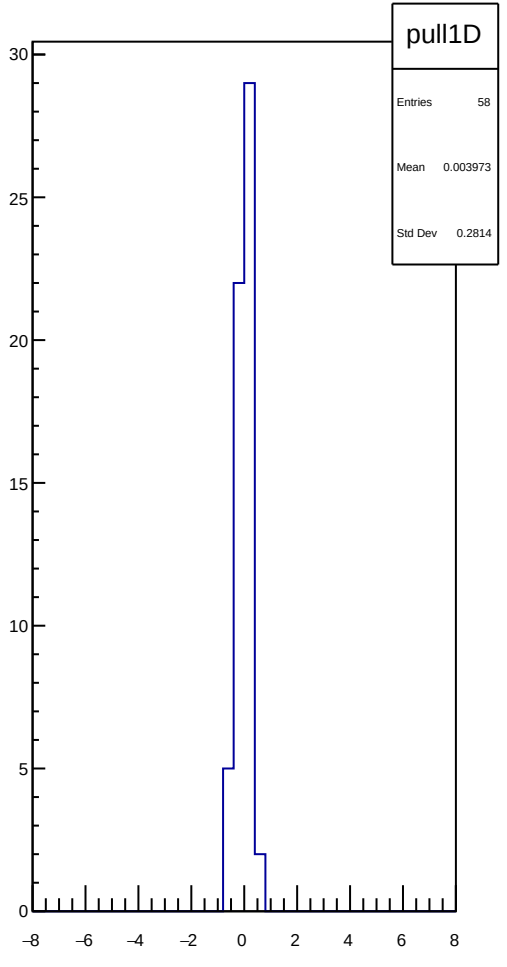

asym_bcm_an_us_rms vs run
χ² / ndf 3963 / 57
p0 210.8 ± 0.2007
280
260
240
220
200
180

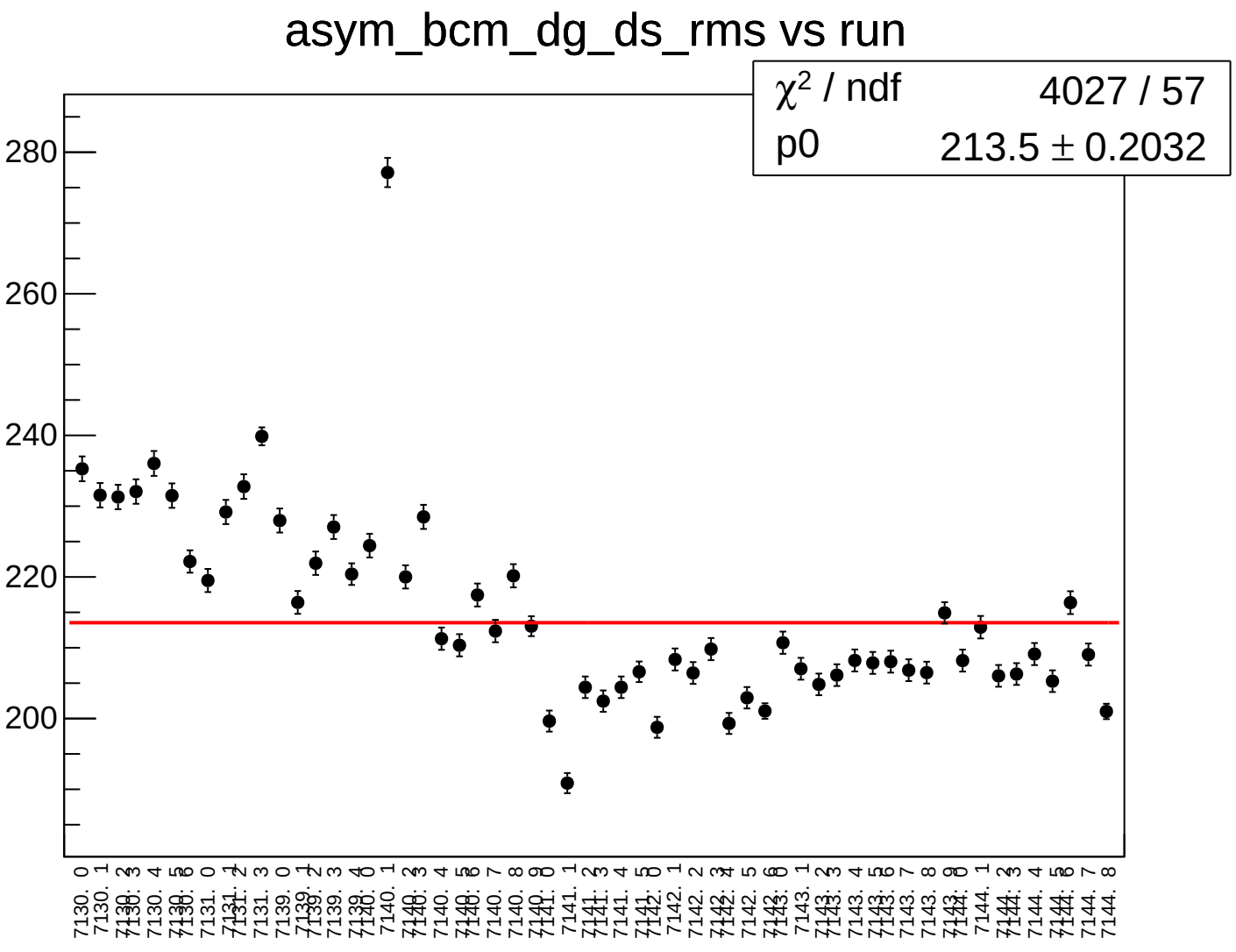

asym_bcm_dg_us_mean vs run
χ² / ndf 6.149 / 57
p0 −87.88 ± 285.2
4000
2000
0
−2000
−4000
pull
Entries 58
Mean 177.5
Std Dev 140.5
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

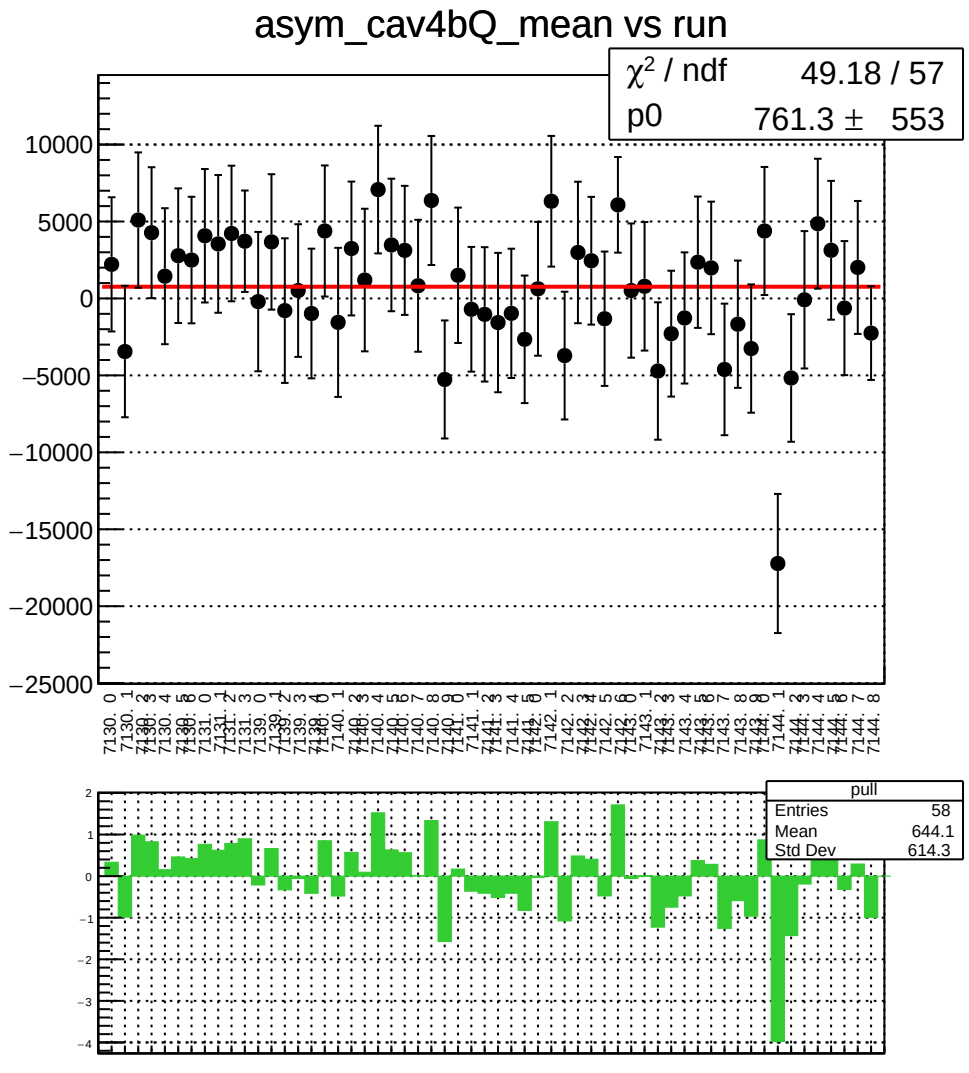

pull1D
Entries 58
Mean 0.00156
Std Dev 0.3256
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

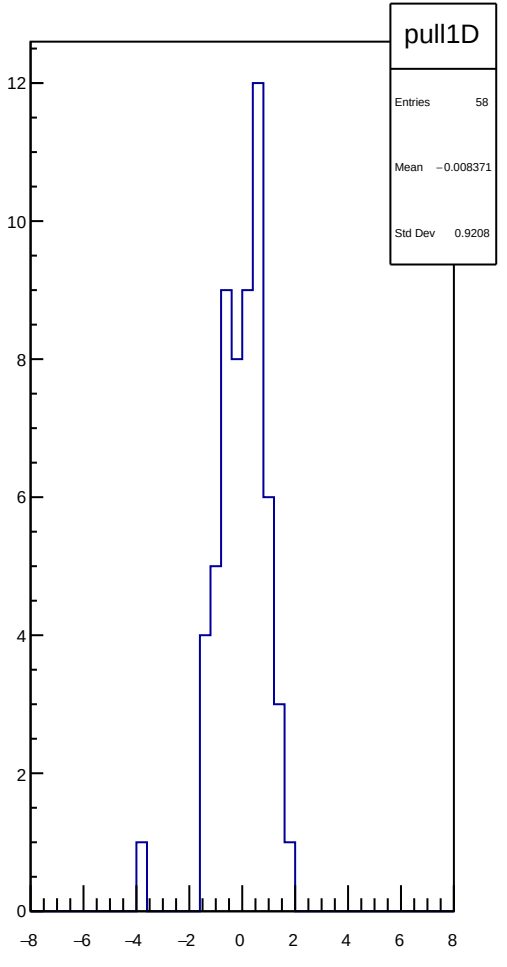

asym_bcm_dg_us_rms vs run
χ² / ndf 4491 / 57
p0 211.8 ± 0.2017
280
260
240
220
200
180

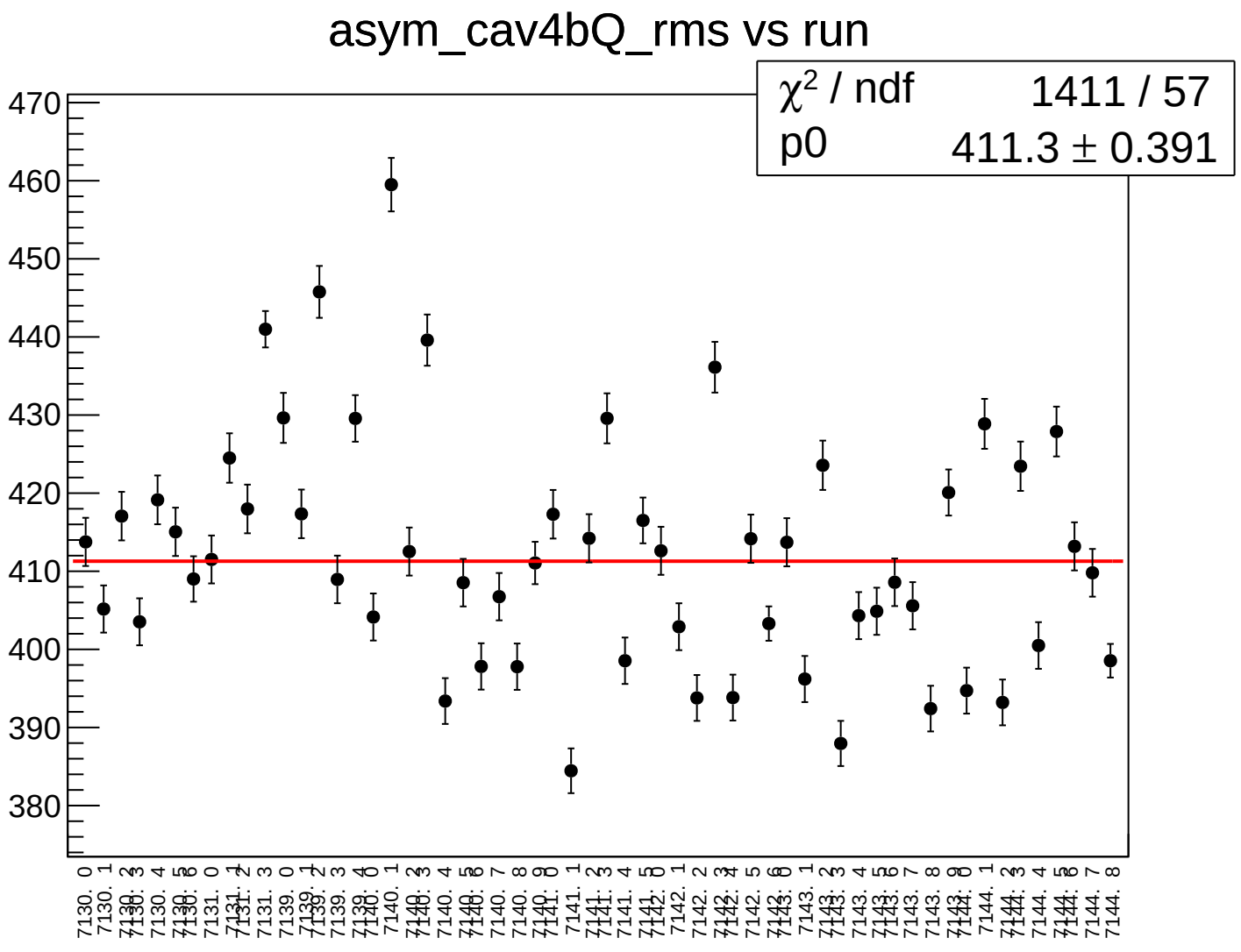

asym_bcm_dg_ds_mean vs run
χ² / ndf 4.593 / 57
p0 −33.82 ± 287.4
pull
Entries 58
Mean −21.04
Std Dev 33.88

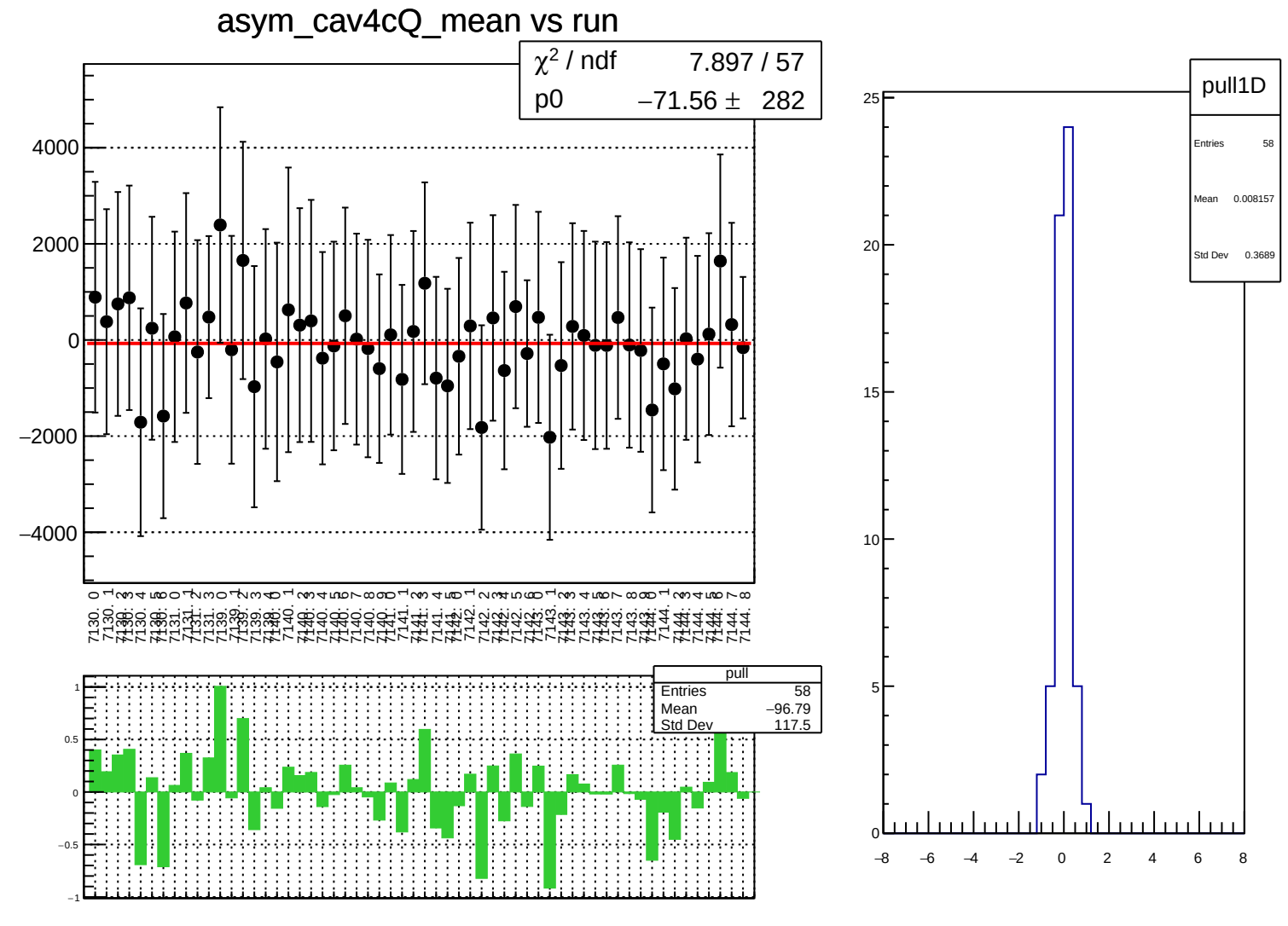

pull1D
Entries 58
Mean 0.003973
Std Dev 0.2814

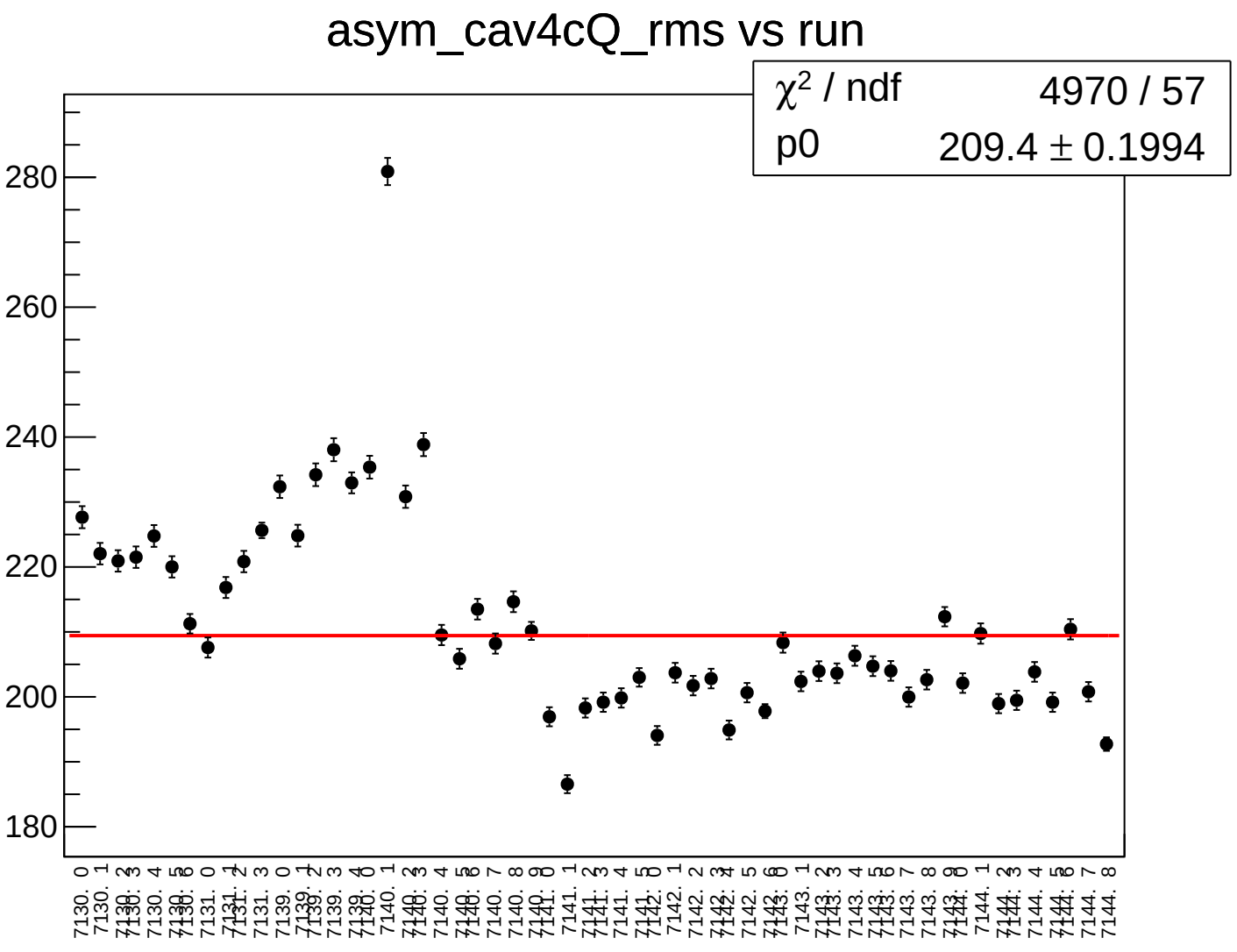

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 4027 / 57
p0 213.5 ± 0.2032
280
260
240
220
200

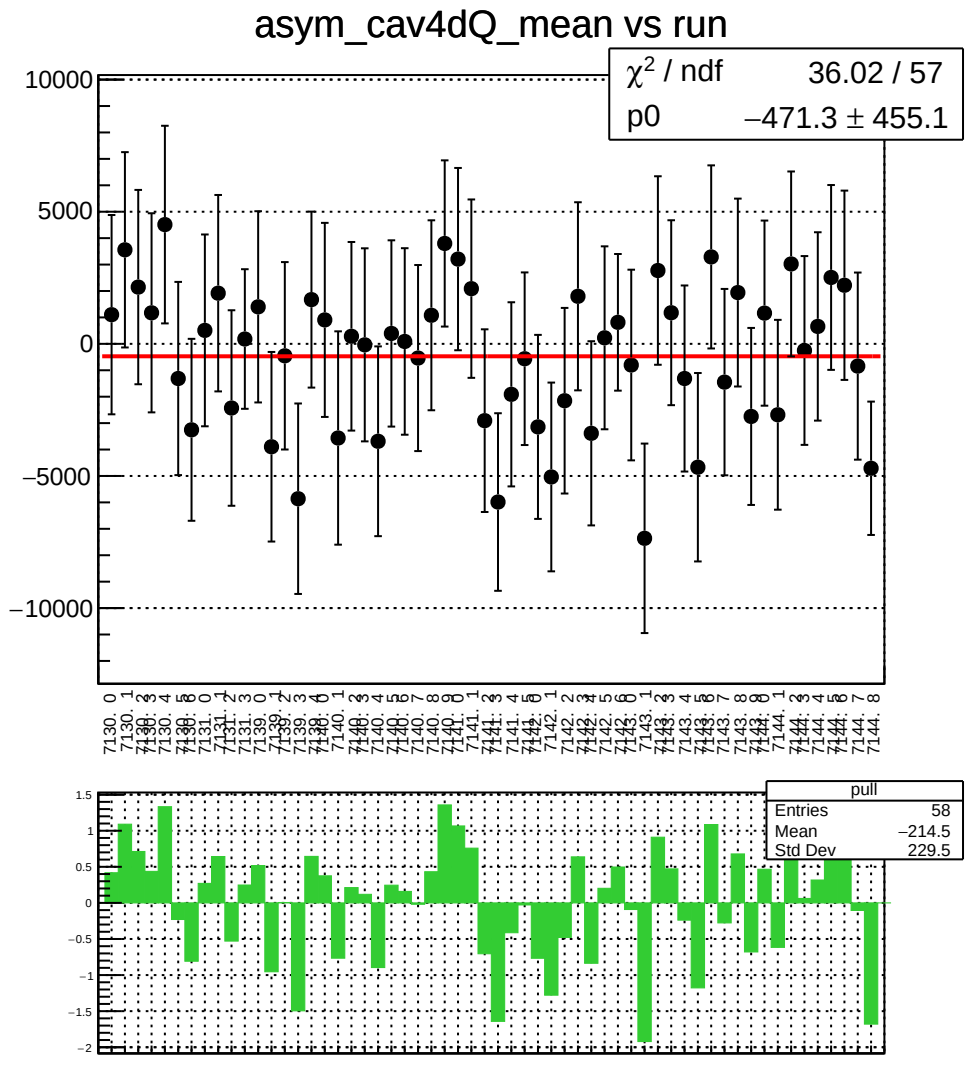

asym_cav4bQ_mean vs run
χ² / ndf 49.18 / 57
p0 761.3 ± 553
pull
Entries 58
Mean 644.1
Std Dev 614.3

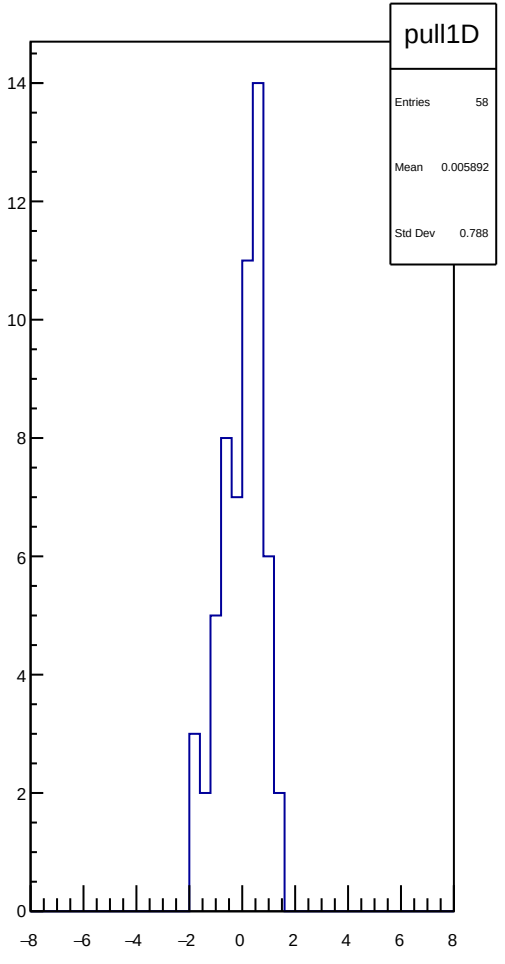

pull1D
Entries 58
Mean −0.008371
Std Dev 0.9208

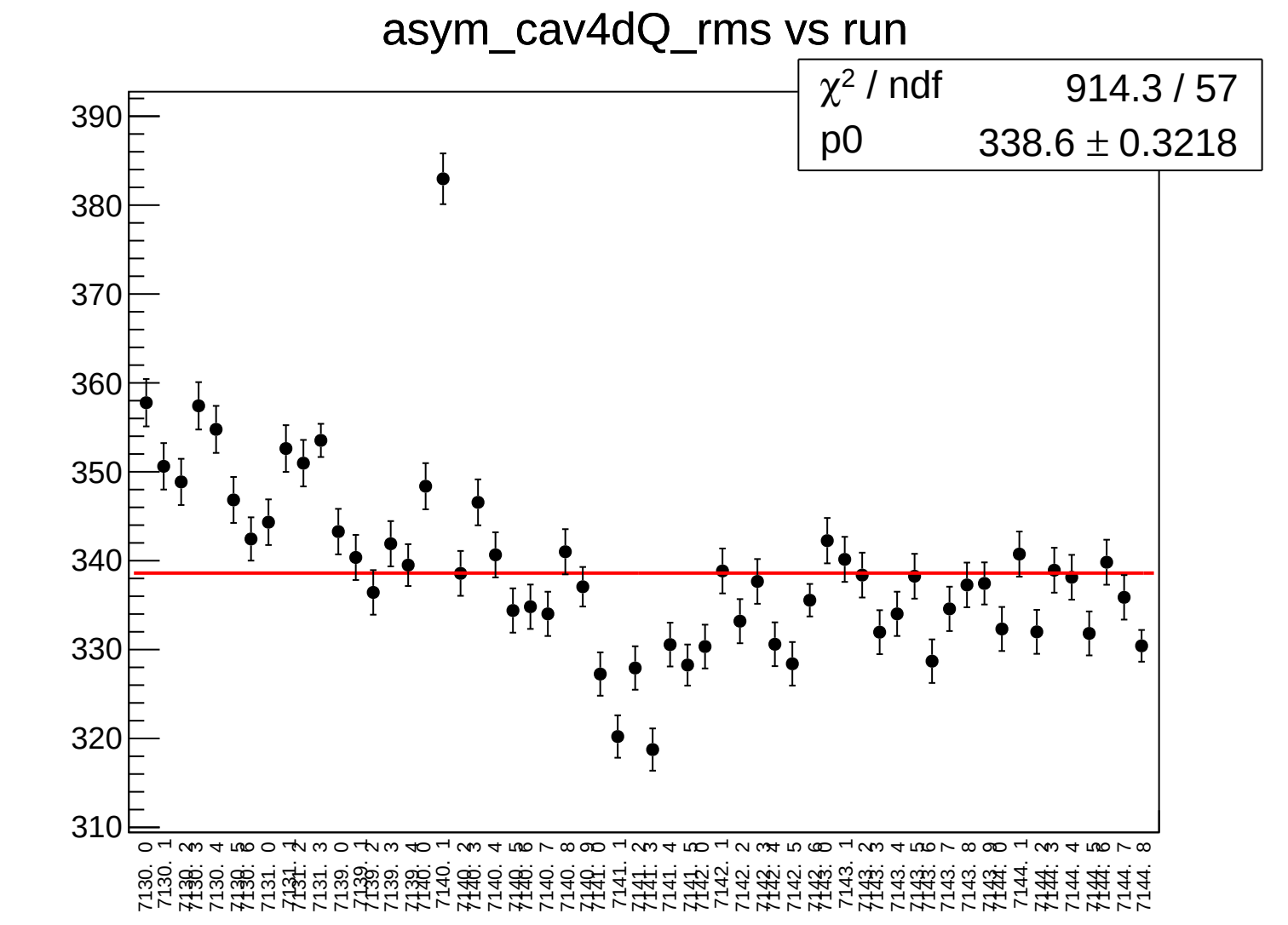

asym_cav4bQ_rms vs run
χ² / ndf 1411 / 57
p0 411.3 ± 0.391
470
460
450
440
430
420
410
400
390
380

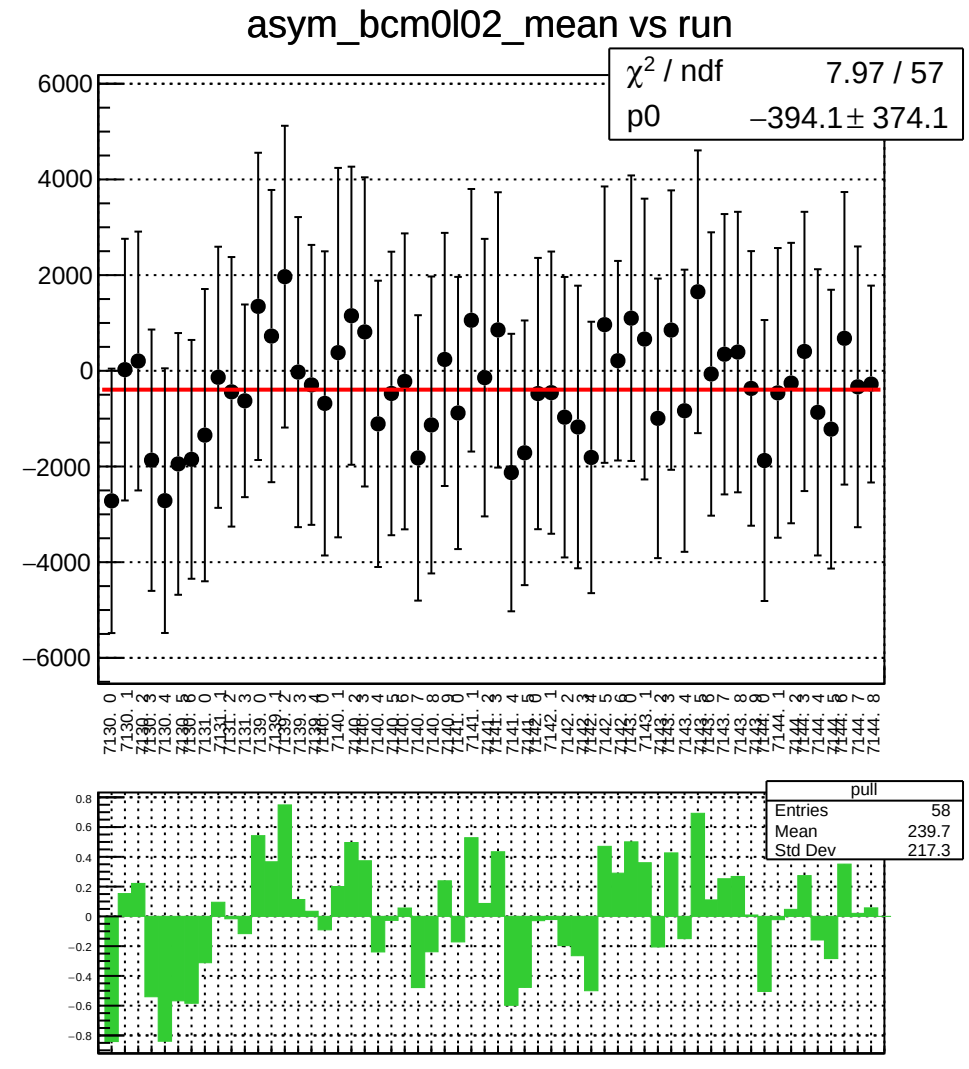

asym_cav4cQ_mean vs run
χ² / ndf 7.897 / 57
p0 −71.56 ± 282
4000
2000
0
−2000
−4000
pull
Entries 58
Mean −96.79
Std Dev 117.5
1
0.5
0
−0.5
−1
pull1D
Entries 58
Mean 0.008157
Std Dev 0.3689
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

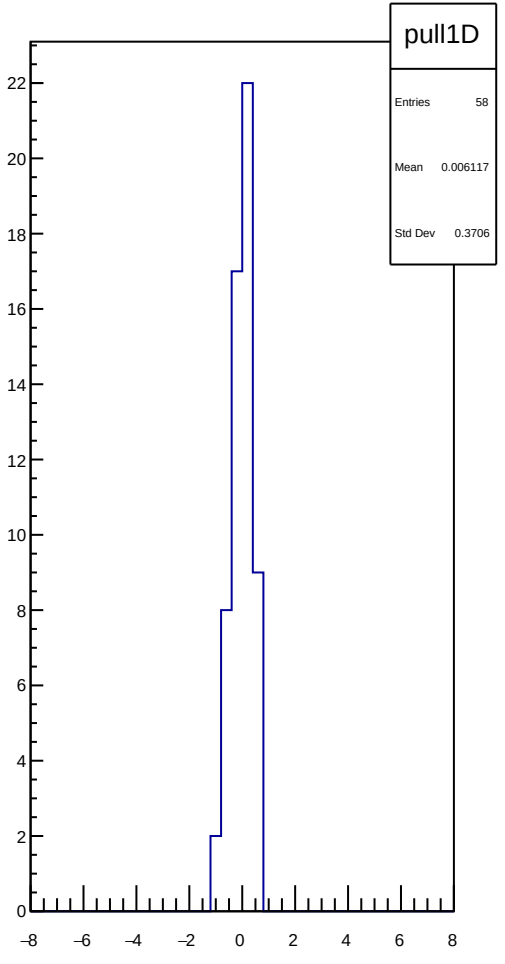

asym_cav4cQ_rms vs run
χ² / ndf 4970 / 57
p0 209.4 ± 0.1994
280
260
240
220
200
180

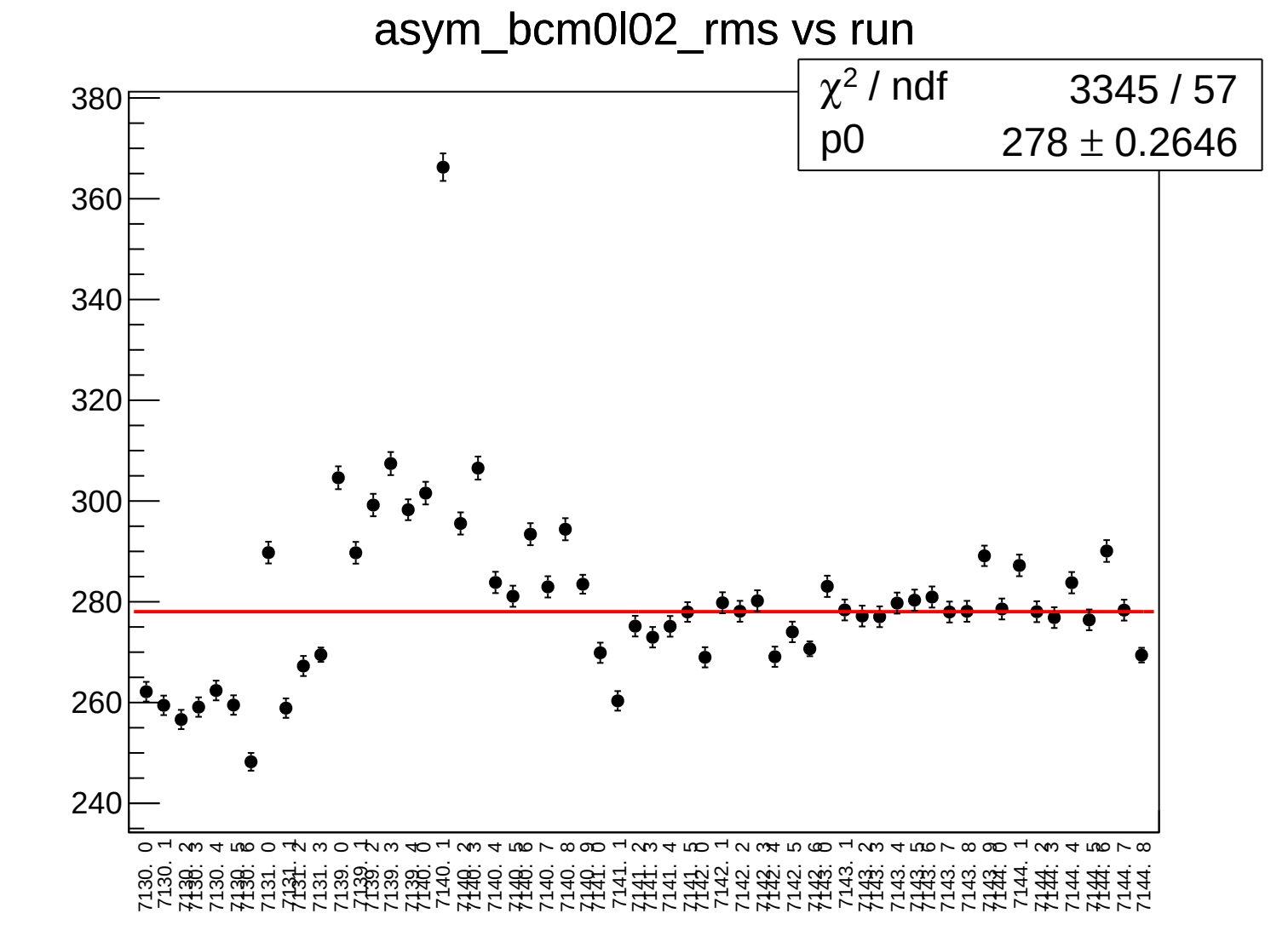

asym_cav4dQ_mean vs run
χ² / ndf 36.02 / 57
p0 −471.3 ± 455.1
pull
Entries 58
Mean −214.5
Std Dev 229.5

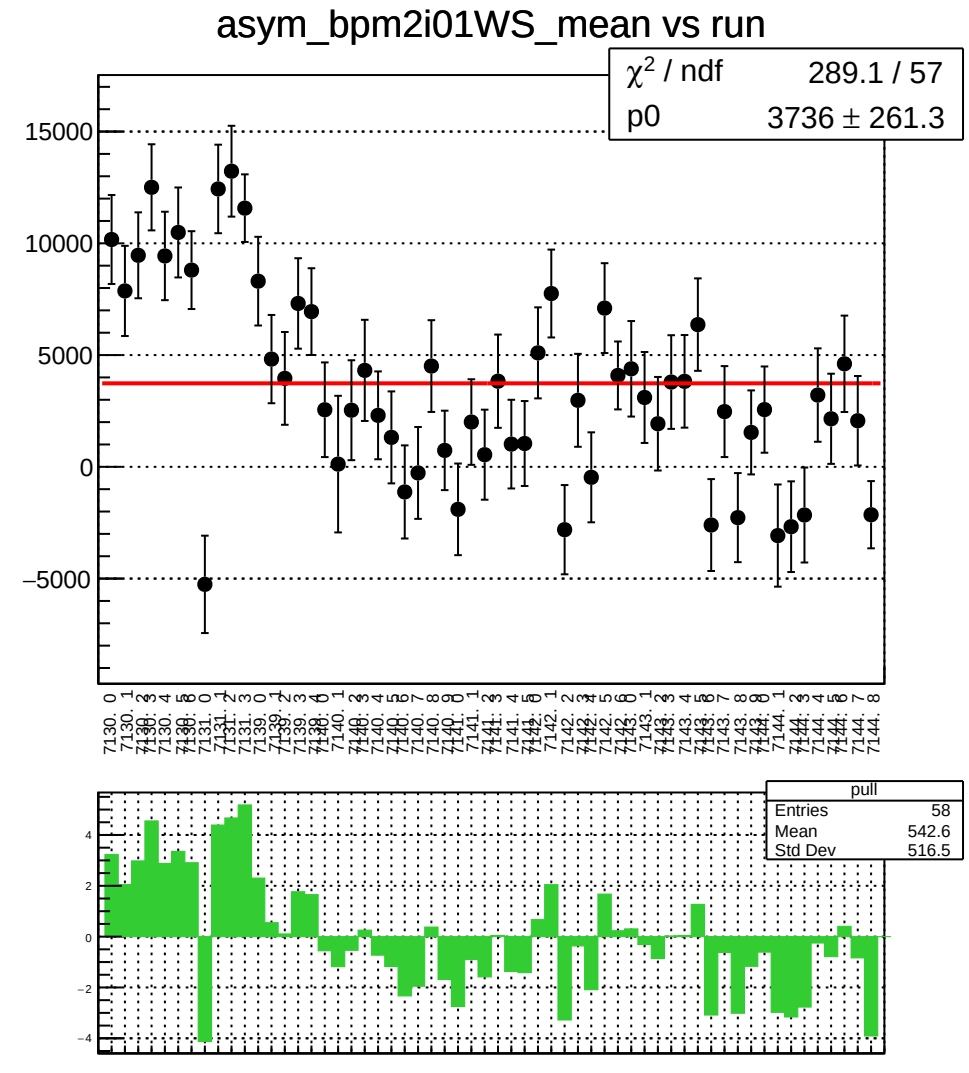

pull1D
Entries 58
Mean 0.005892
Std Dev 0.788

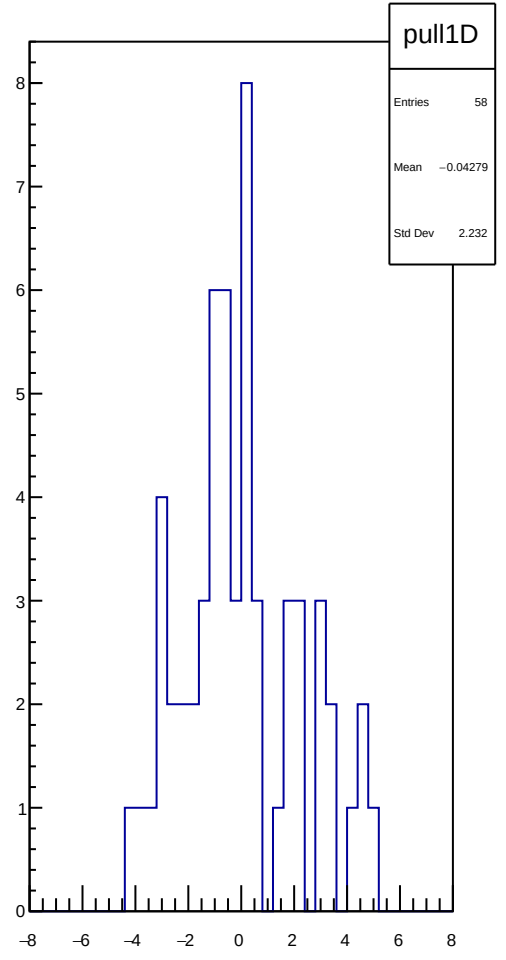

asym_cav4dQ_rms vs run
χ² / ndf 914.3 / 57
p0 338.6 ± 0.3218
390
380
370
360
350
340
330
320
310

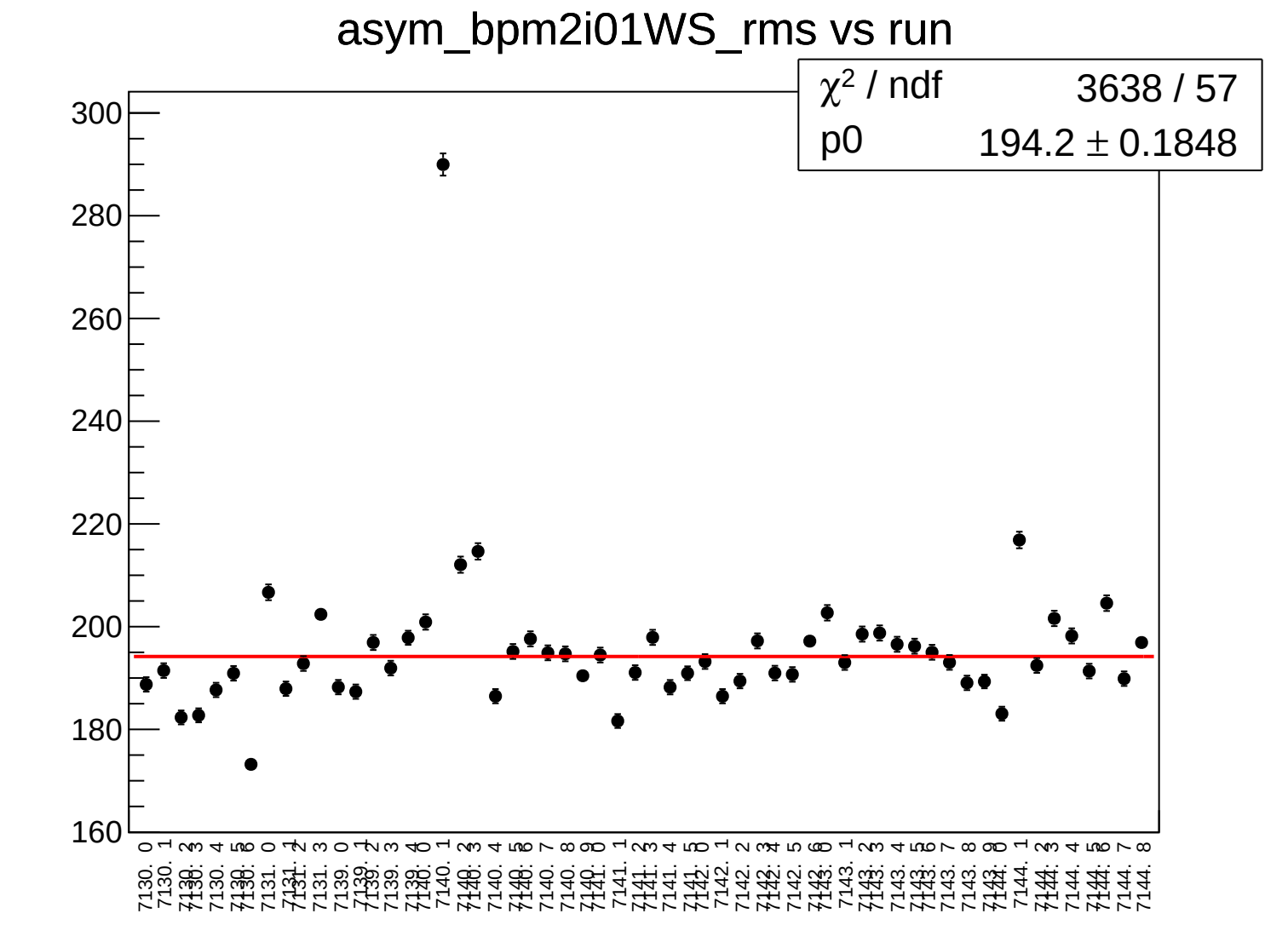

asym_bcm0l02_mean vs run
χ² / ndf 7.97 / 57
p0 −394.1 ± 374.1
pull
Entries 58
Mean 239.7
Std Dev 217.3

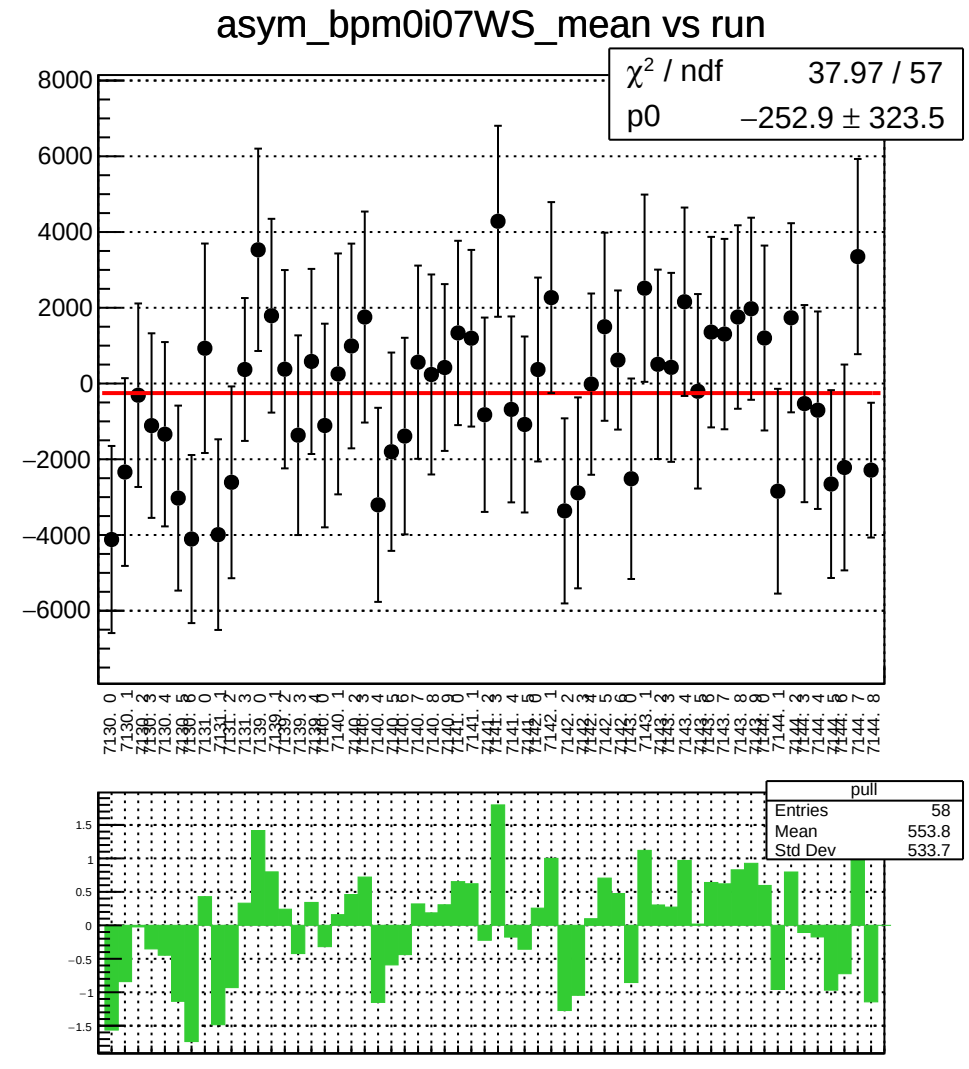

pull1D
Entries 58
Mean 0.006117
Std Dev 0.3706

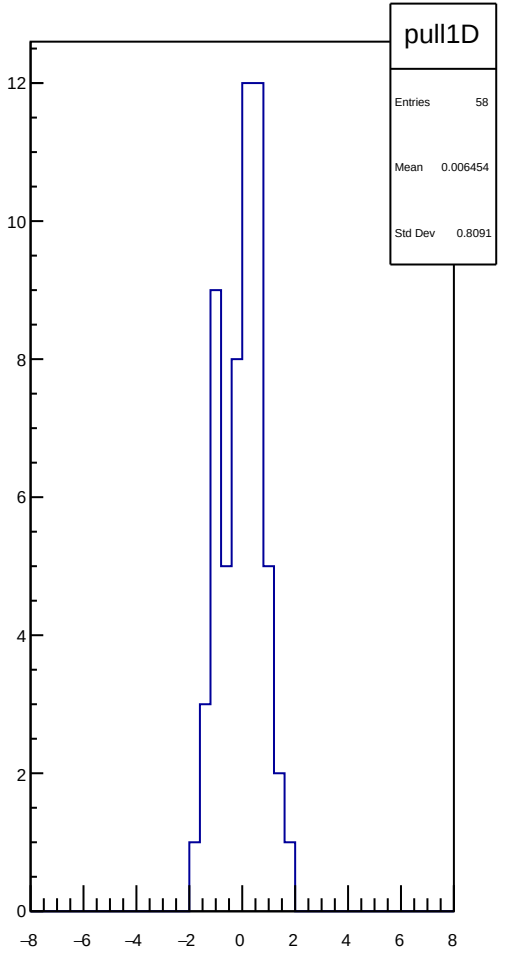

asym_bcm0l02_rms vs run
χ² / ndf 3345 / 57
p0 278 ± 0.2646
380
360
340
320
300
280
260
240

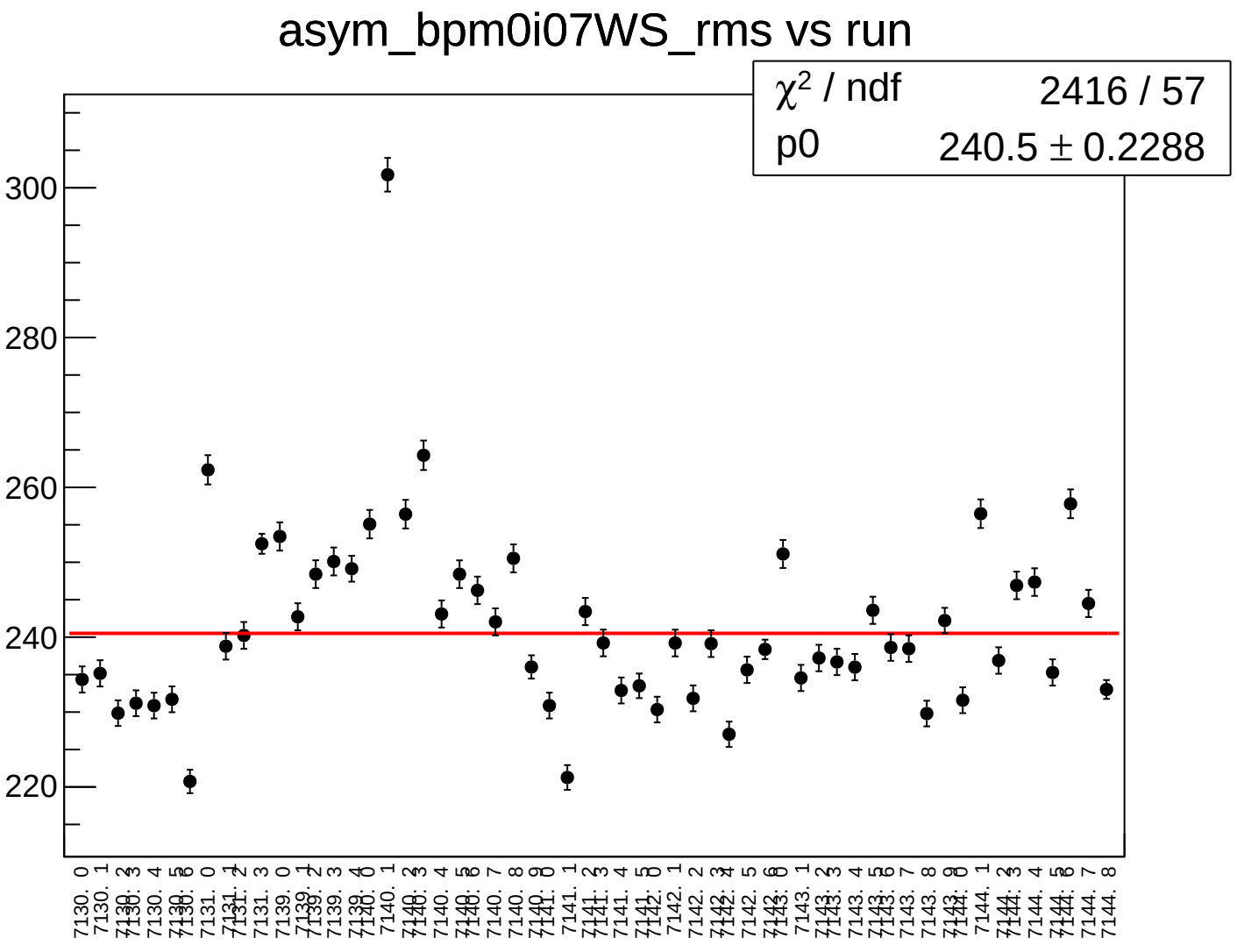

asym_bpm2i01WS_mean vs run
χ² / ndf 289.1 / 57
p0 3736 ± 261.3
15000
10000
5000
0
−5000
pull
Entries 58
Mean 542.6
Std Dev 516.5
4
2
0
−2
−4

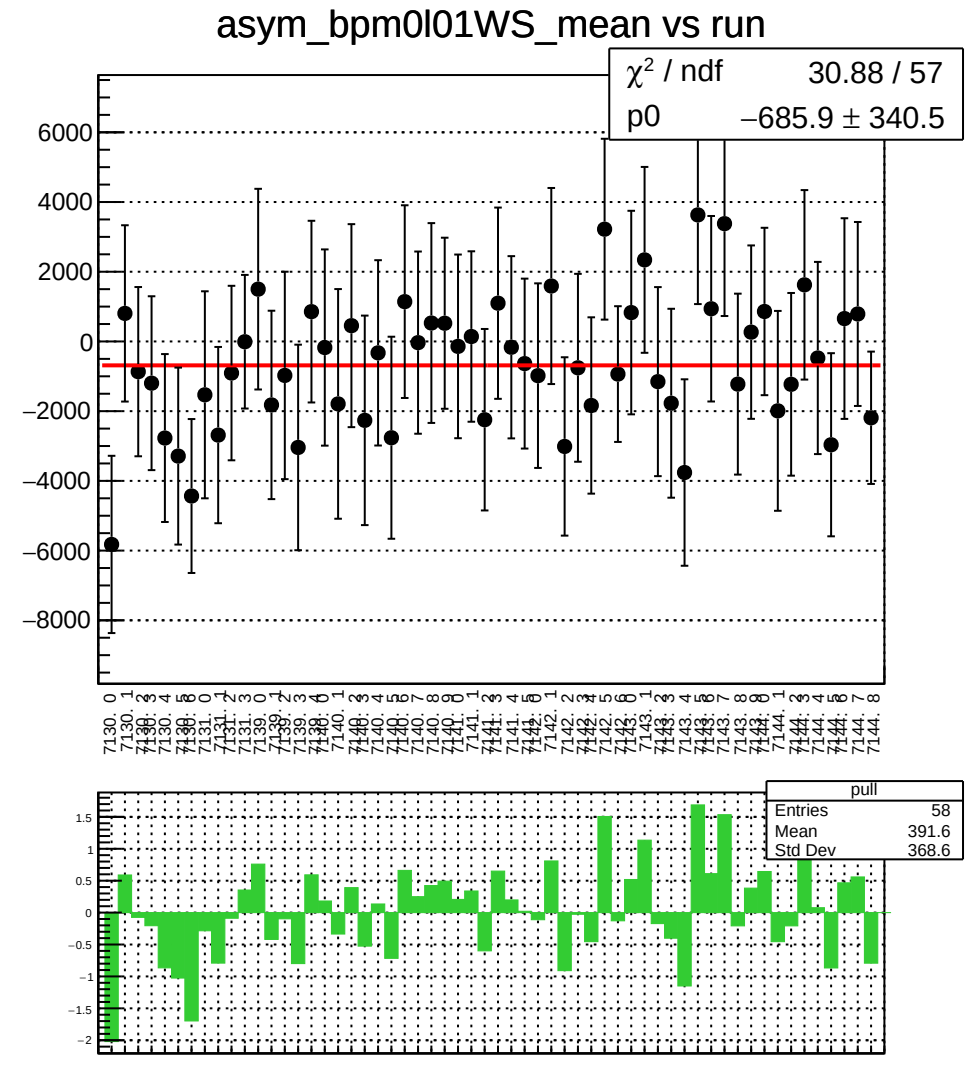

pull1D
Entries 58
Mean −0.04279
Std Dev 2.232
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

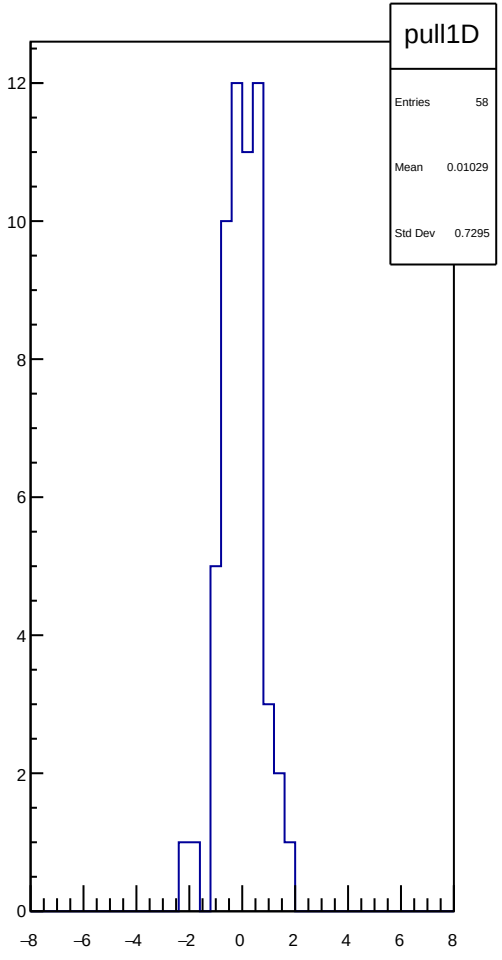

asym_bpm2i01WS_rms vs run
χ² / ndf 3638 / 57
p0 194.2 ± 0.1848
300
280
260
240
220
200
180
160

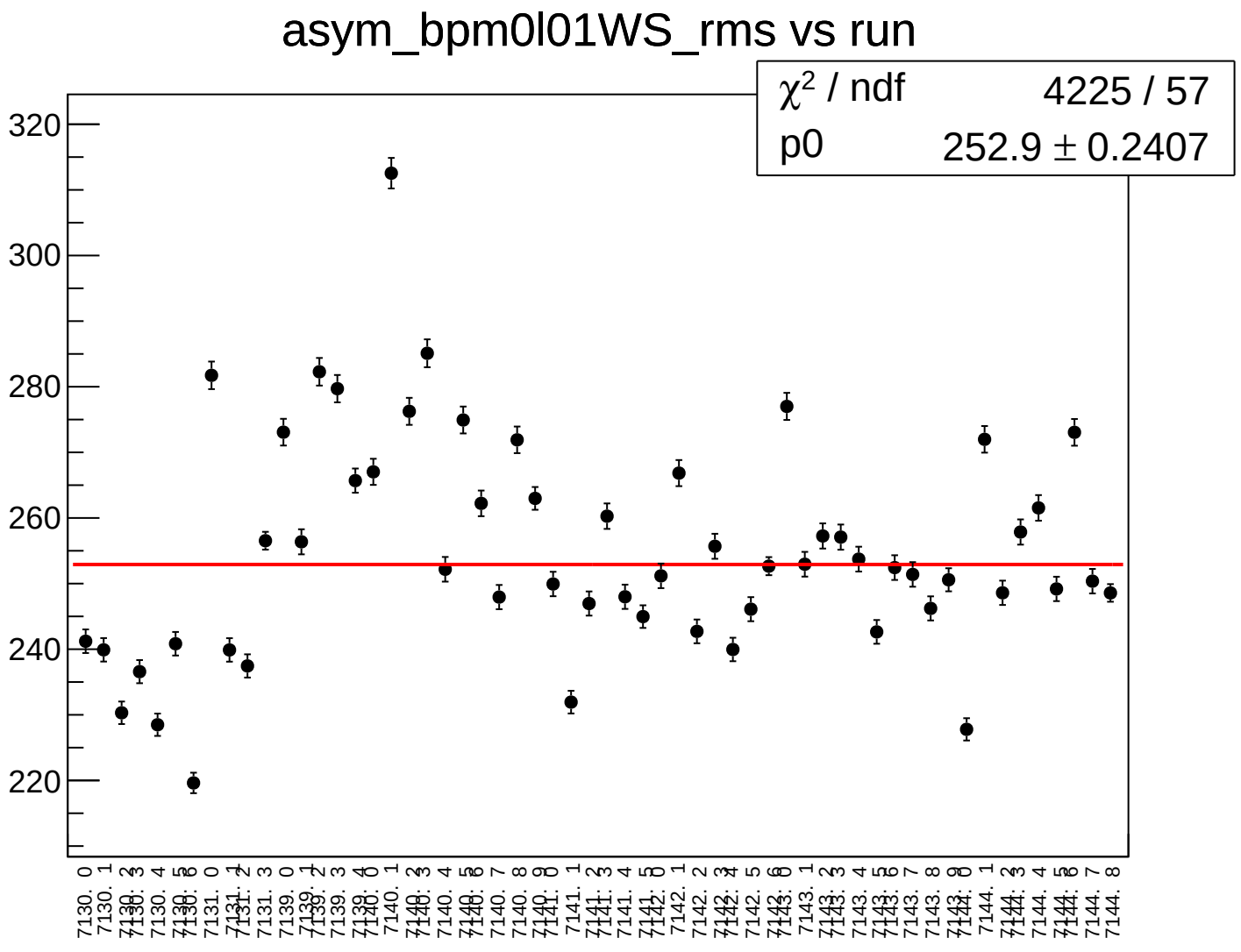

asym_bpm0i07WS_mean vs run
χ² / ndf 37.97 / 57
p0 −252.9 ± 323.5
pull
Entries 58
Mean 553.8
Std Dev 533.7

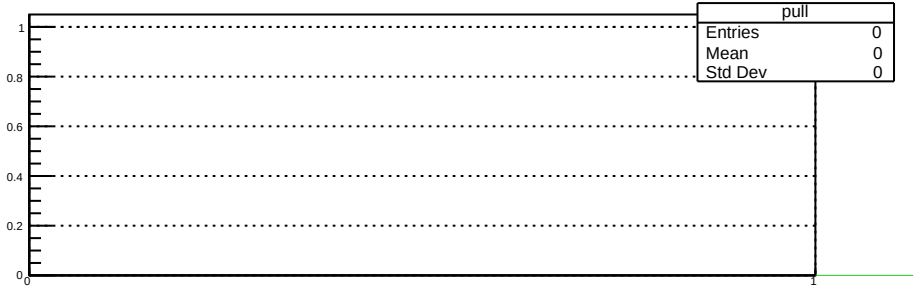

pull1D
Entries 58
Mean 0.006454
Std Dev 0.8091

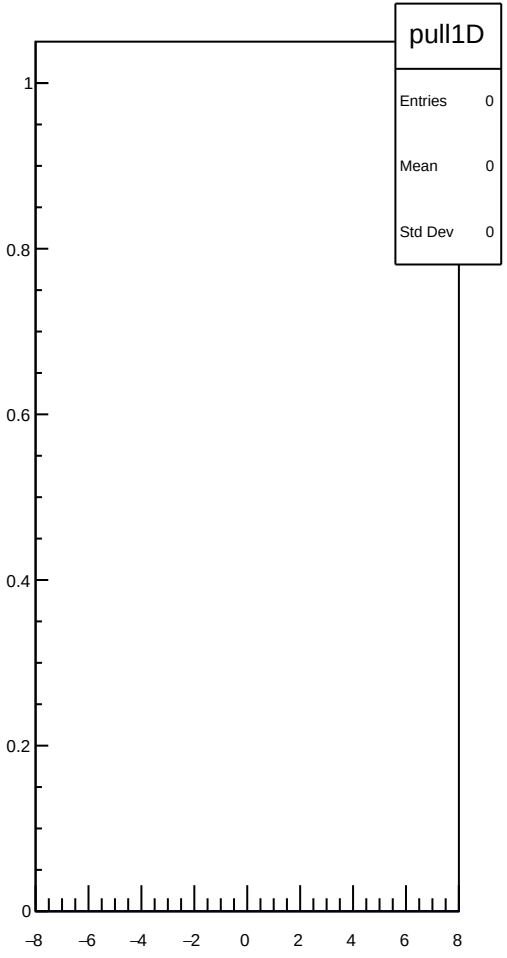

asym_bpm0i07WS_rms vs run
χ² / ndf 2416 / 57
p0 240.5 ± 0.2288
300
280
260
240
220

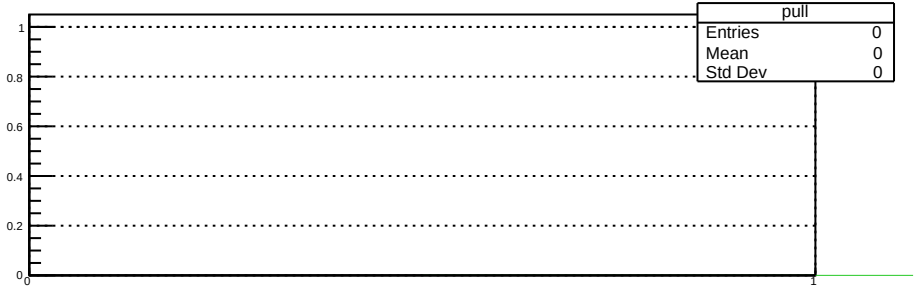

asym_bpm0l01WS_mean vs run
χ² / ndf 30.88 / 57
p0 −685.9 ± 340.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 58
Mean 391.6
Std Dev 368.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

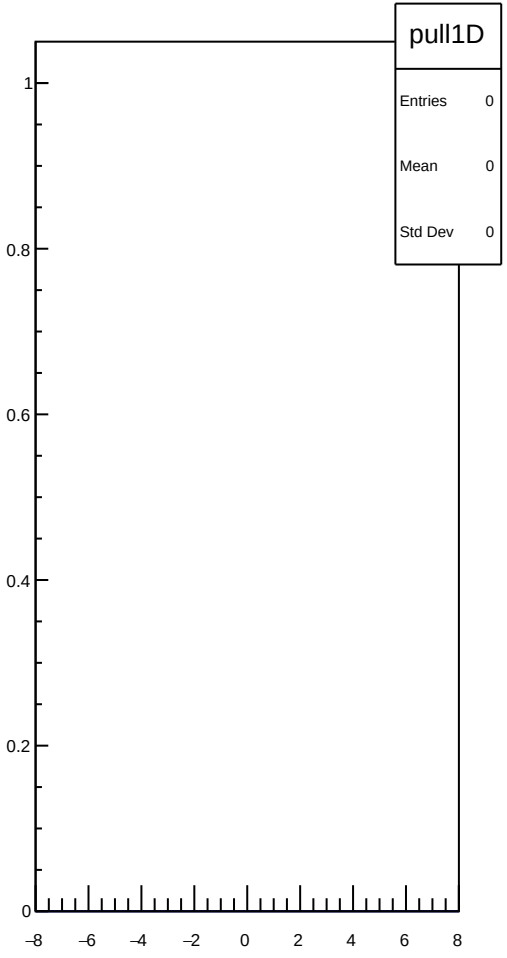

pull1D
Entries 58
Mean 0.01029
Std Dev 0.7295
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

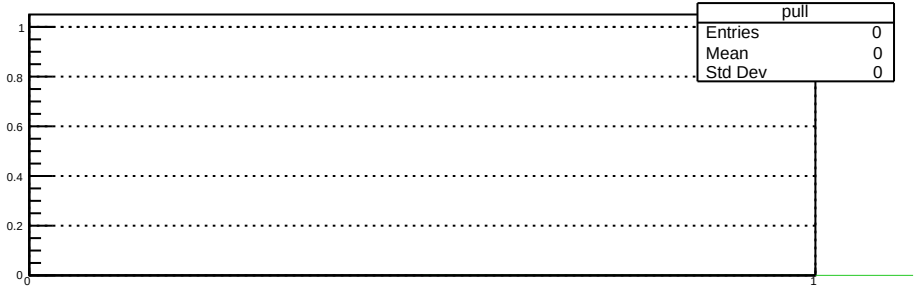

asym_bpm0l01WS_rms vs run
χ² / ndf 4225 / 57
p0 252.9 ± 0.2407
320
300
280
260
240
220

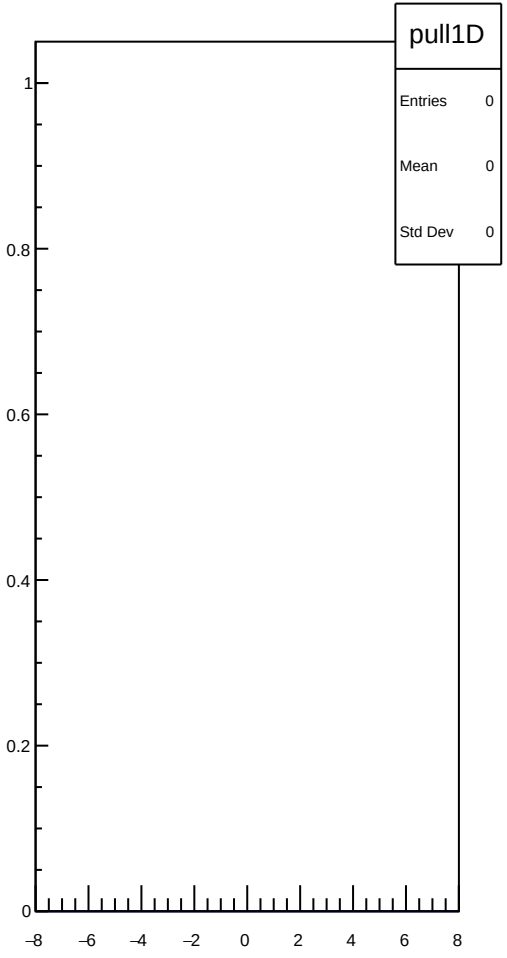

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

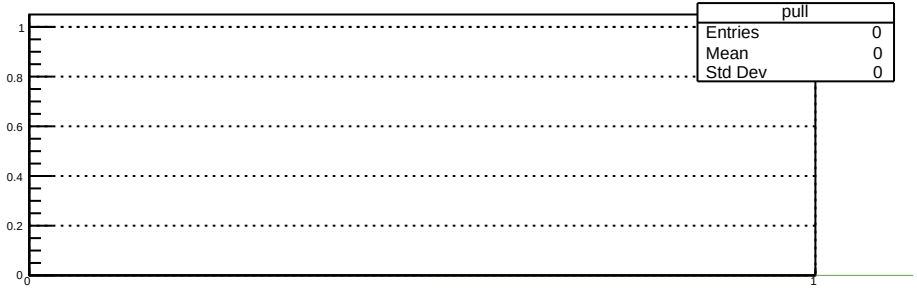

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

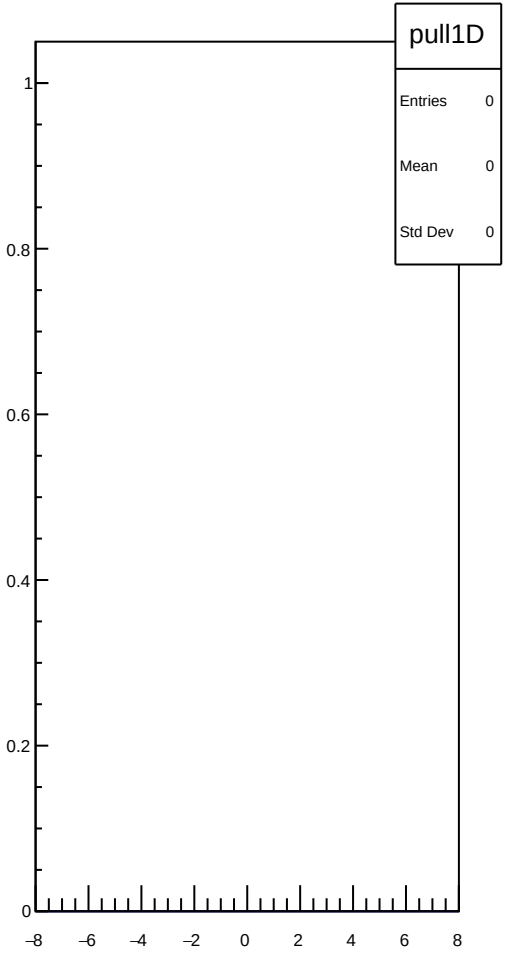

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

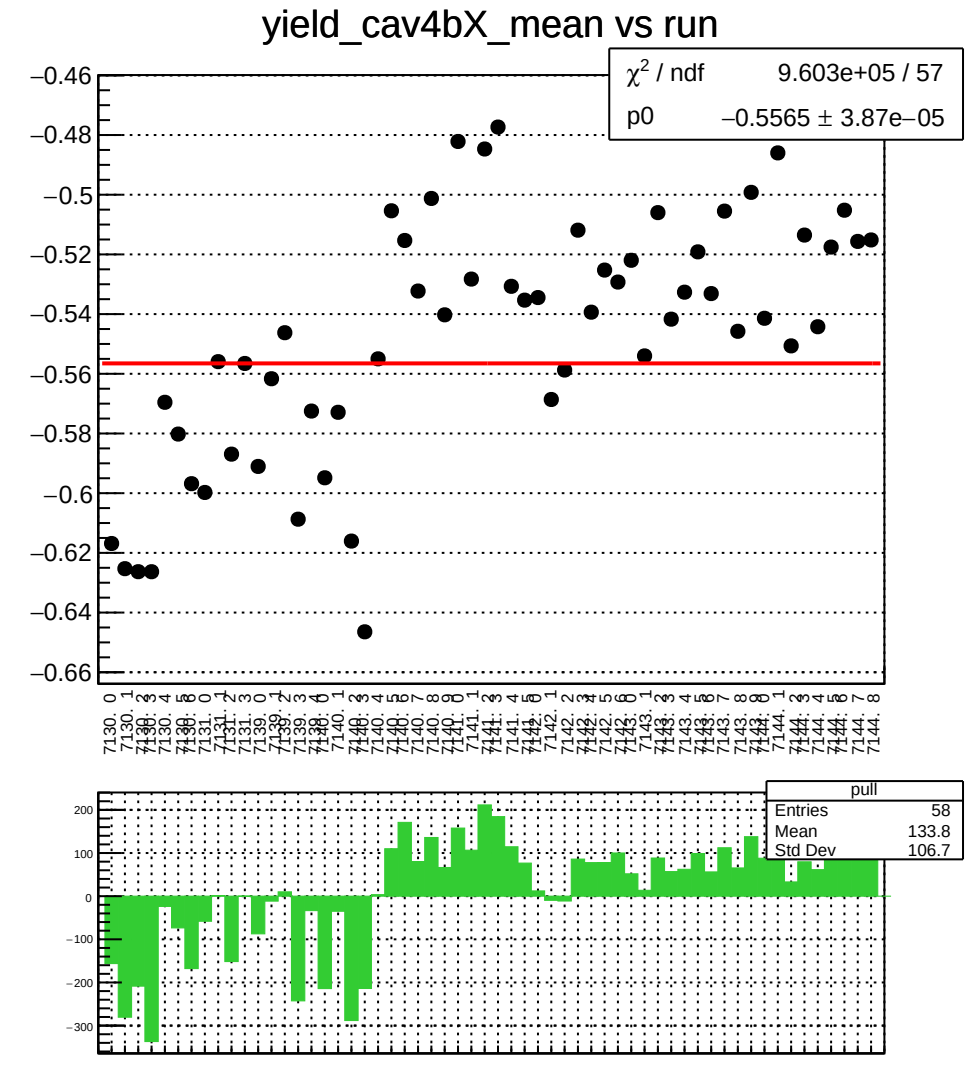

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

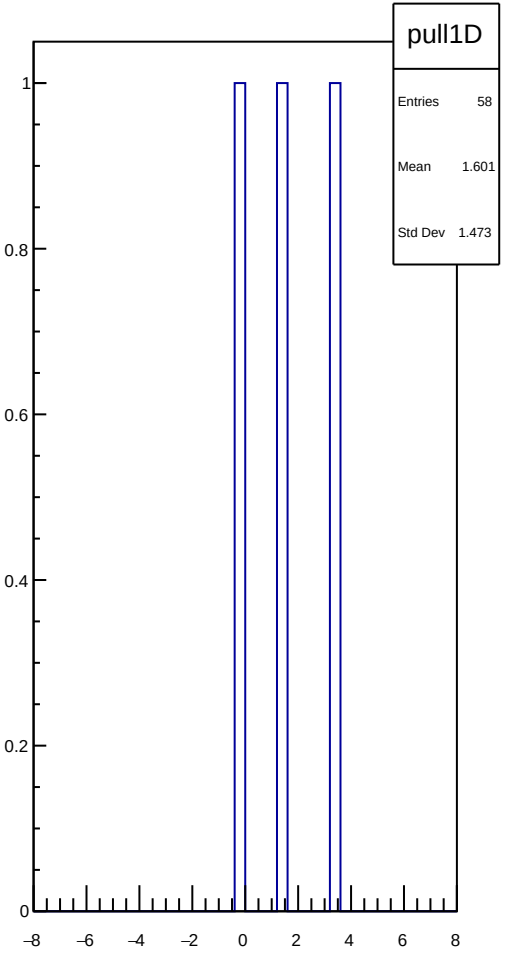

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

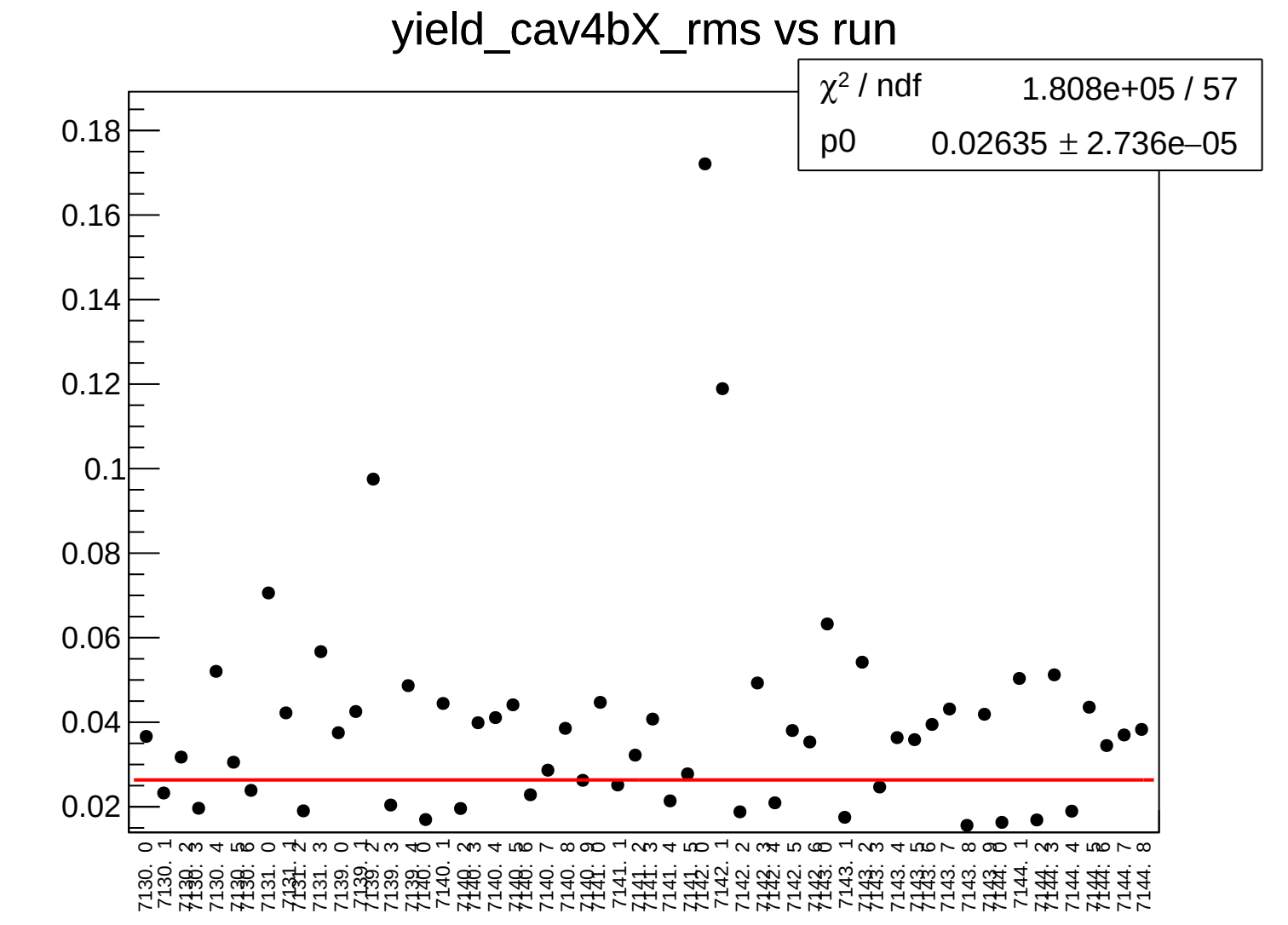

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

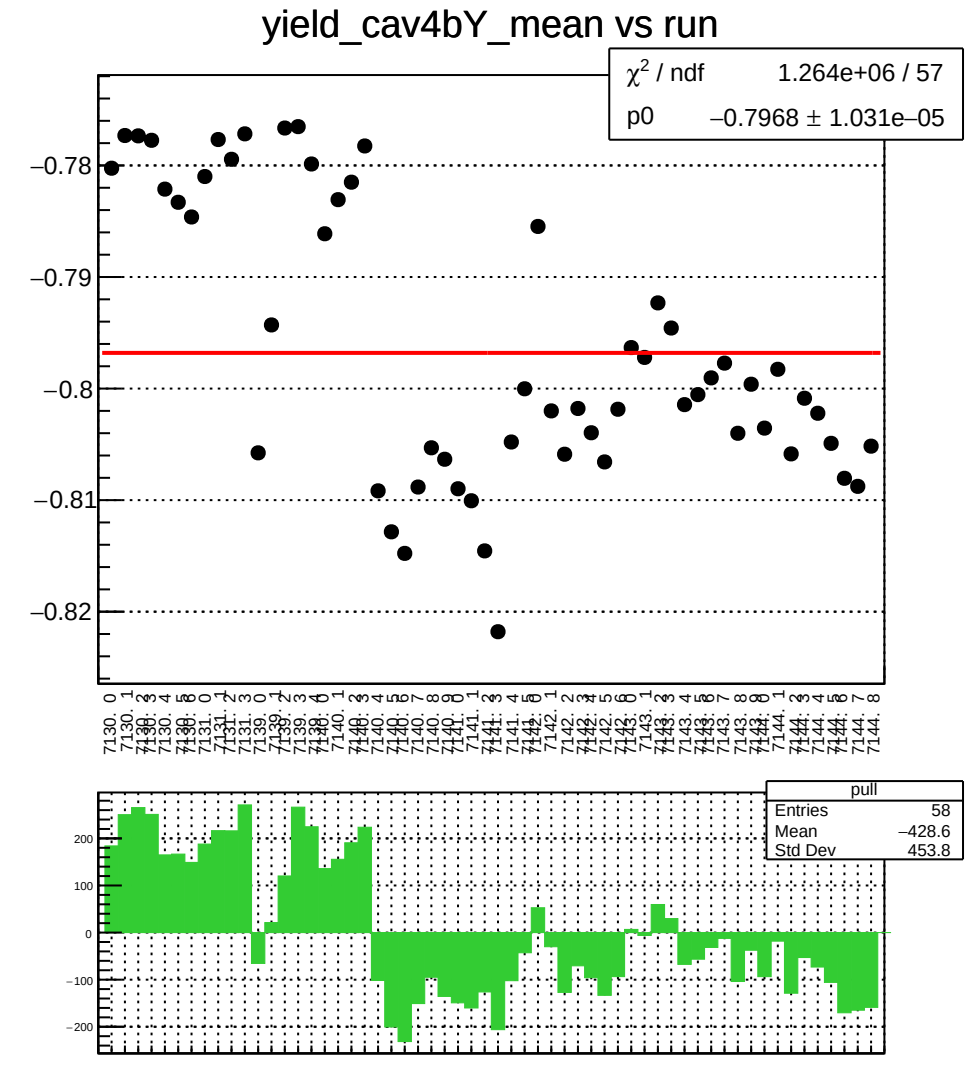

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

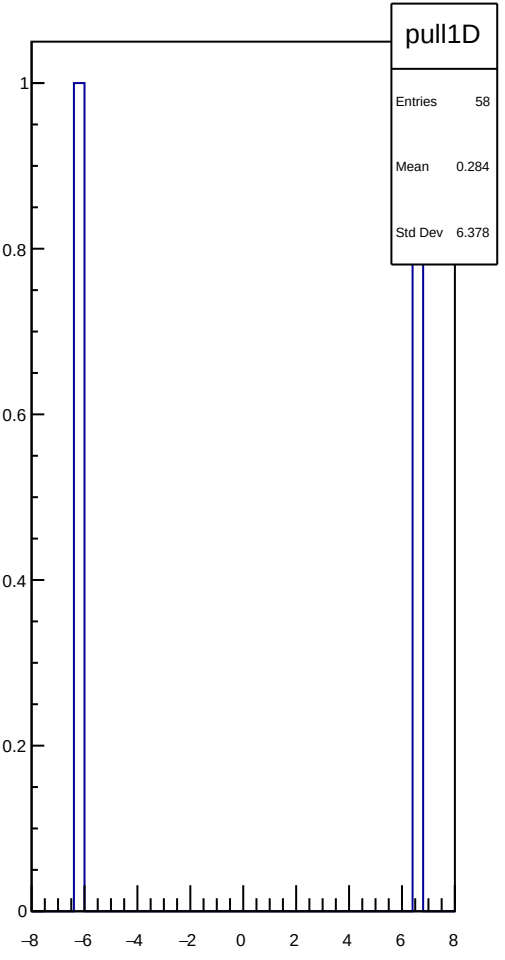

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

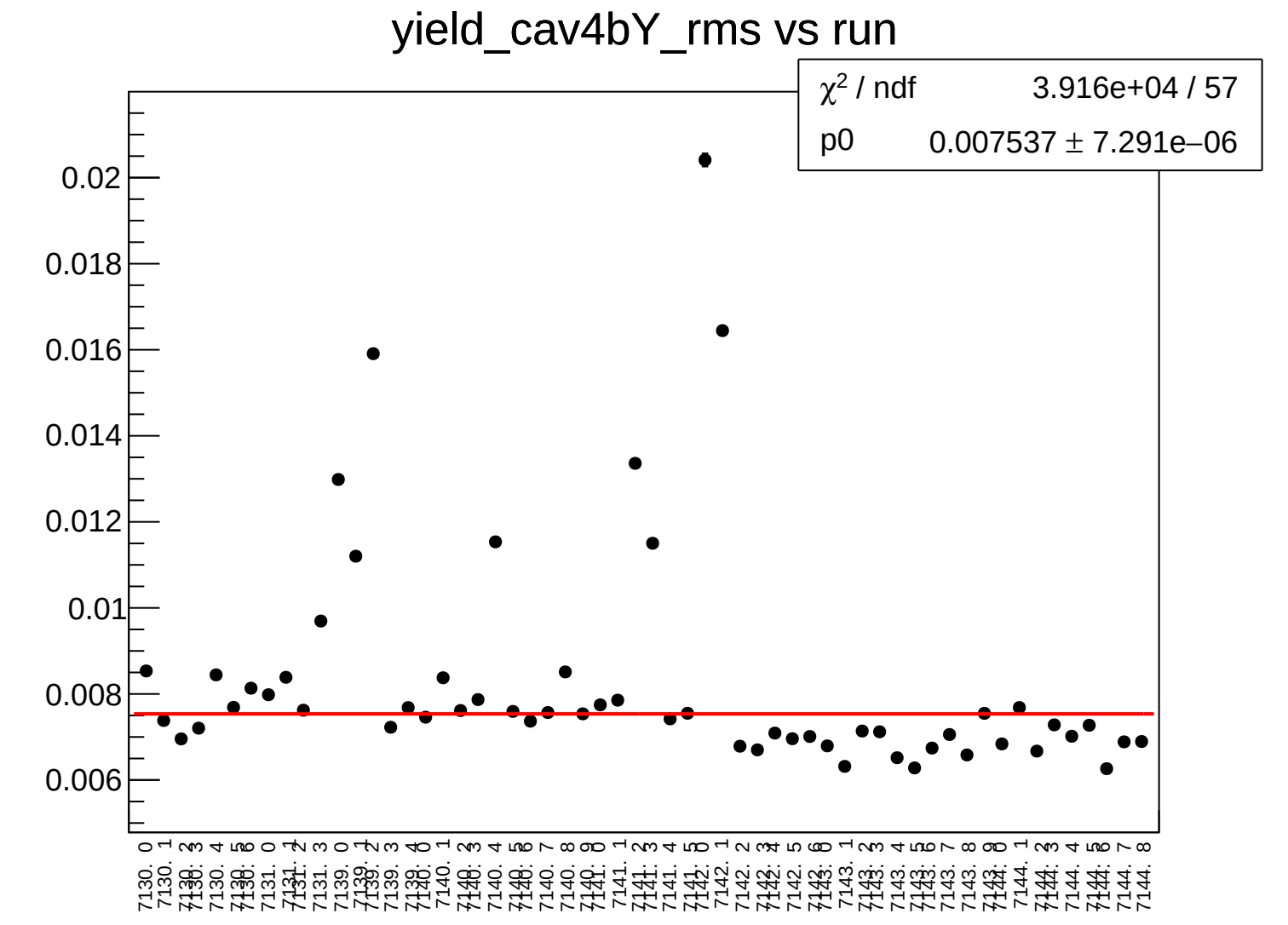

yield_cav4bX_mean vs run
χ² / ndf 9.603e+05 / 57
p0 −0.5565 ± 3.87e−05
pull
Entries 58
Mean 133.8
Std Dev 106.7

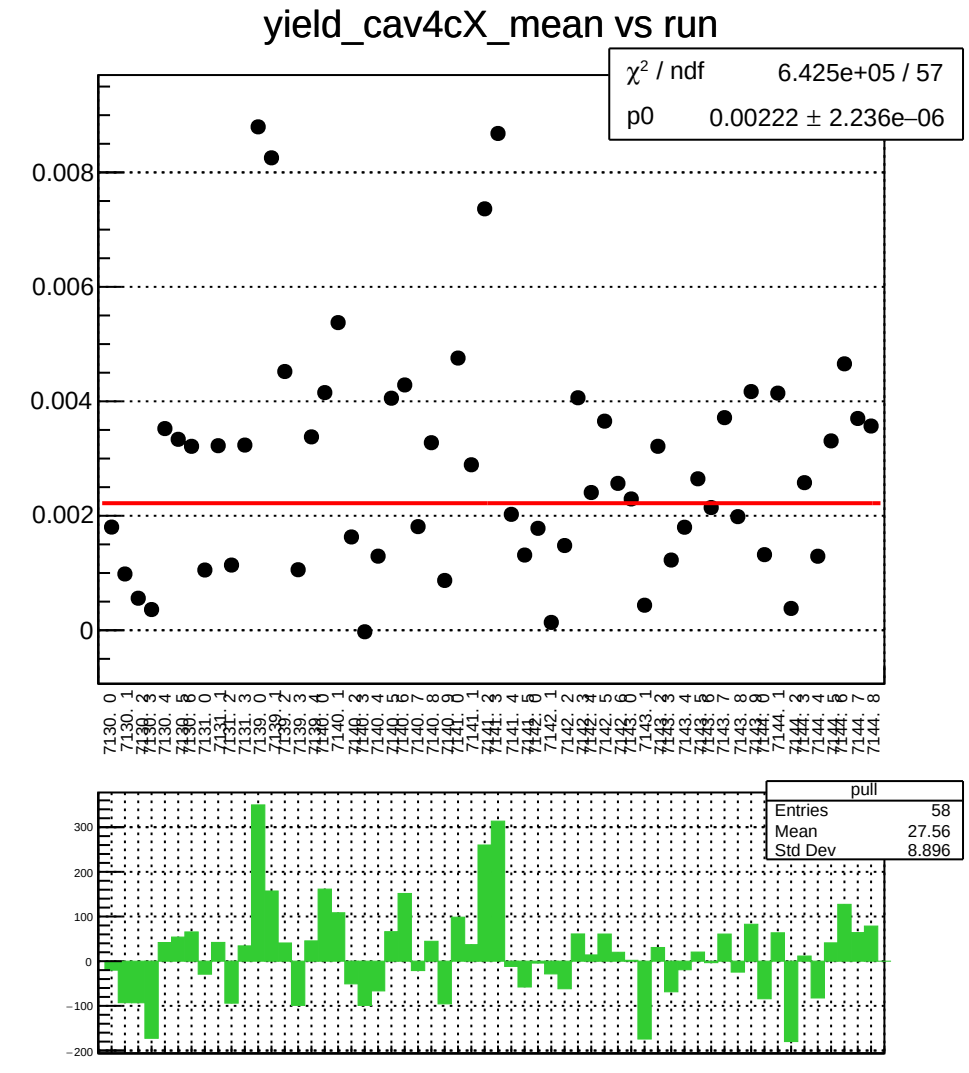

pull1D
Entries 58
Mean 1.601
Std Dev 1.473

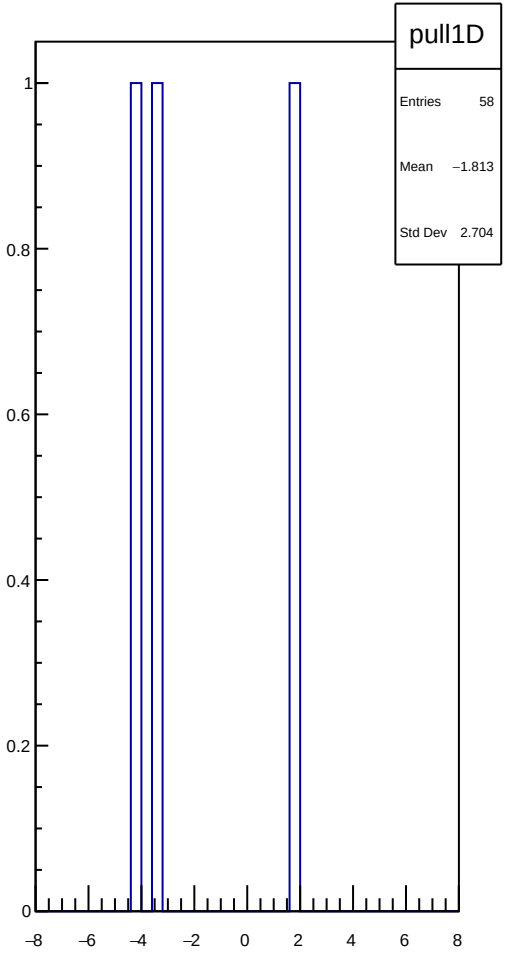

yield_cav4bX_rms vs run
χ² / ndf 1.808e+05 / 57
p0 0.02635 ± 2.736e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

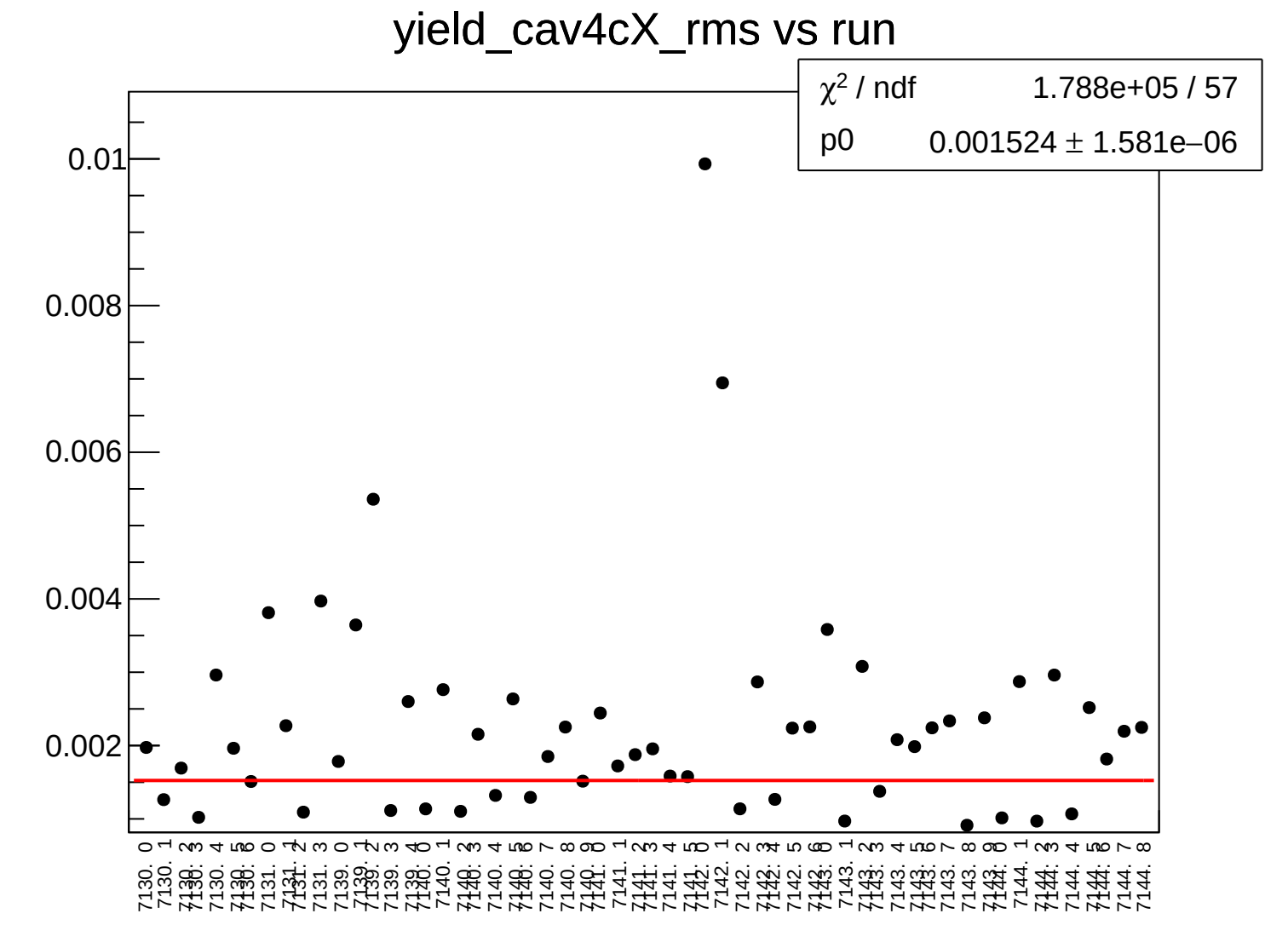

yield_cav4bY_mean vs run
χ² / ndf 1.264e+06 / 57
p0 −0.7968 ± 1.031e−05
−0.78
−0.79
−0.8
−0.81
−0.82
pull
Entries 58
Mean −428.6
Std Dev 453.8
200
100
0
−100
−200

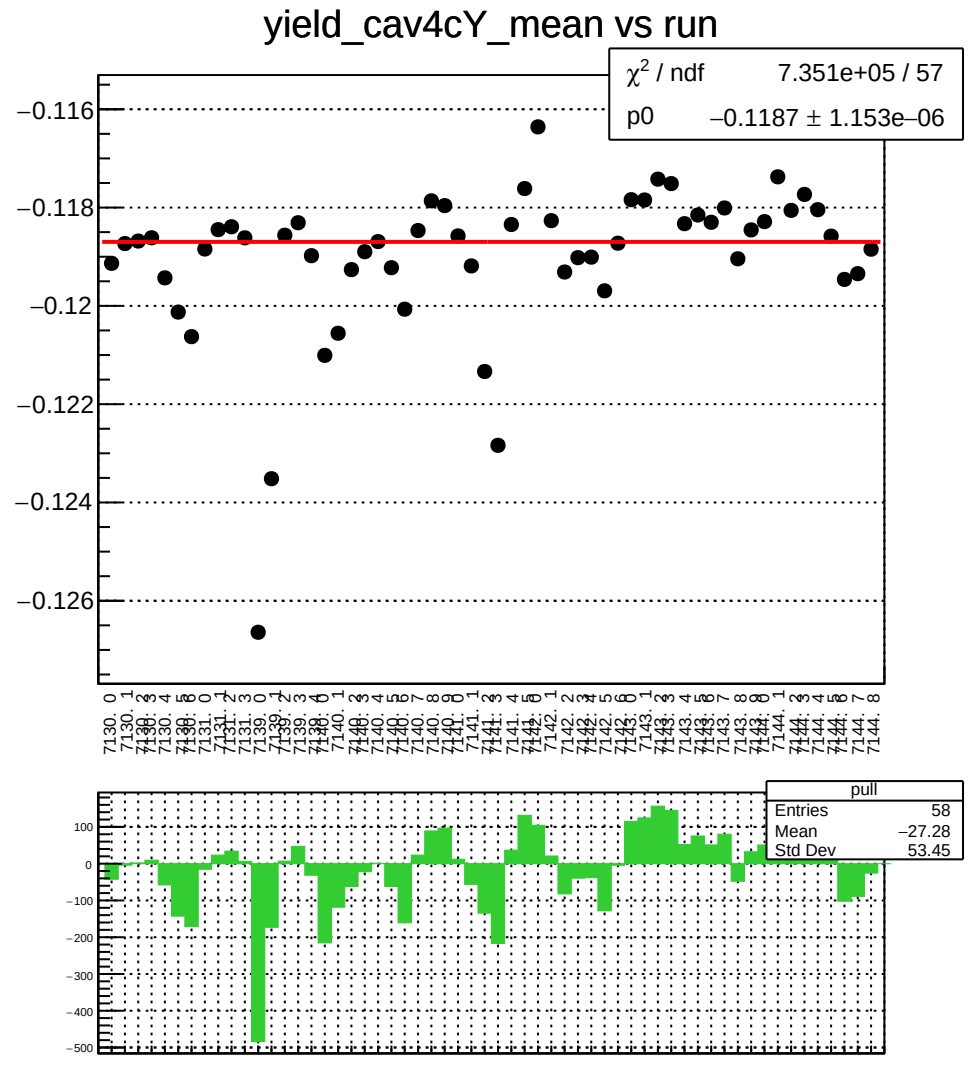

pull1D
Entries 58
Mean 0.284
Std Dev 6.378
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

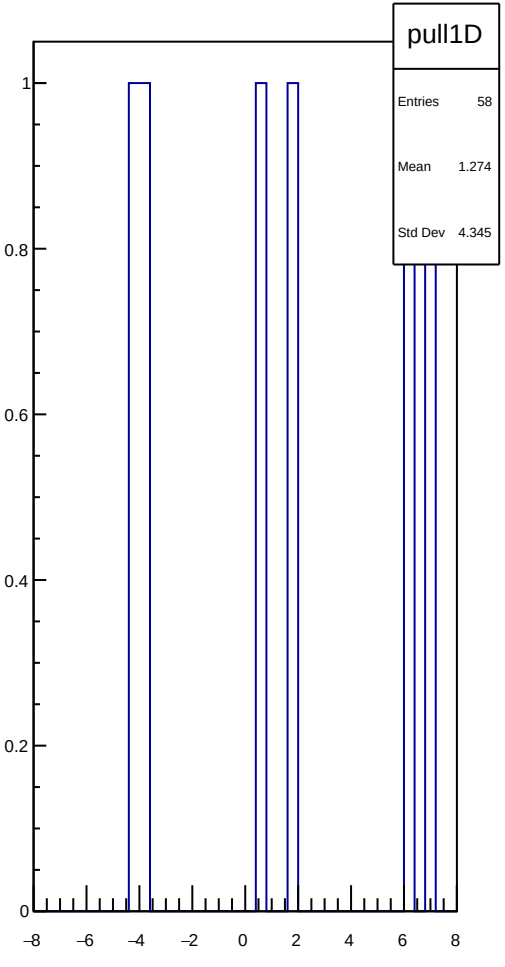

yield_cav4bY_rms vs run
χ² / ndf 3.916e+04 / 57
p0 0.007537 ± 7.291e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

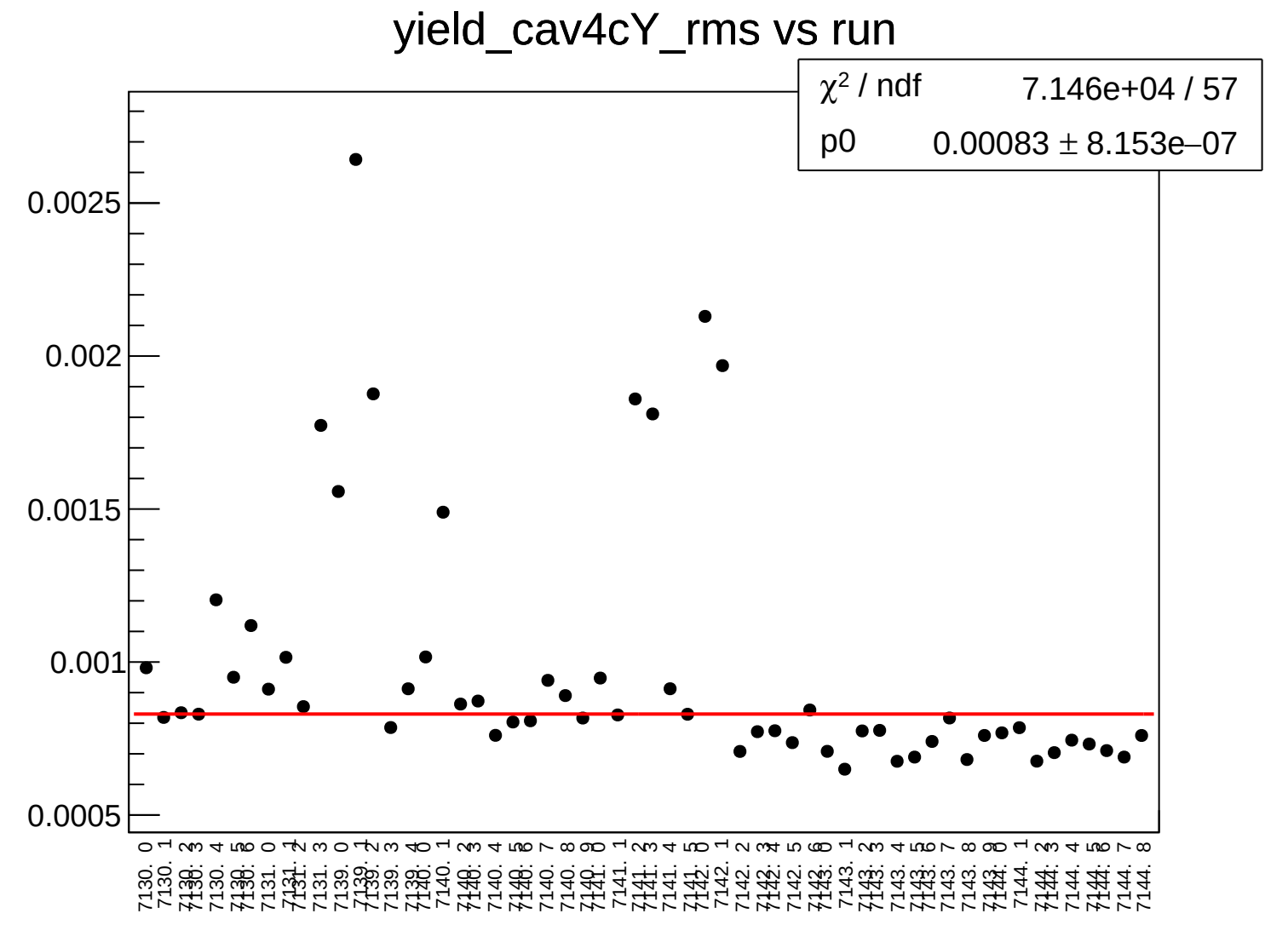

yield_cav4cX_mean vs run
χ² / ndf 6.425e+05 / 57
p0 0.00222 ± 2.236e−06
0.008
0.006
0.004
0.002
0
pull
Entries 58
Mean 27.56
Std Dev 8.896
300
200
100
0
−100
−200

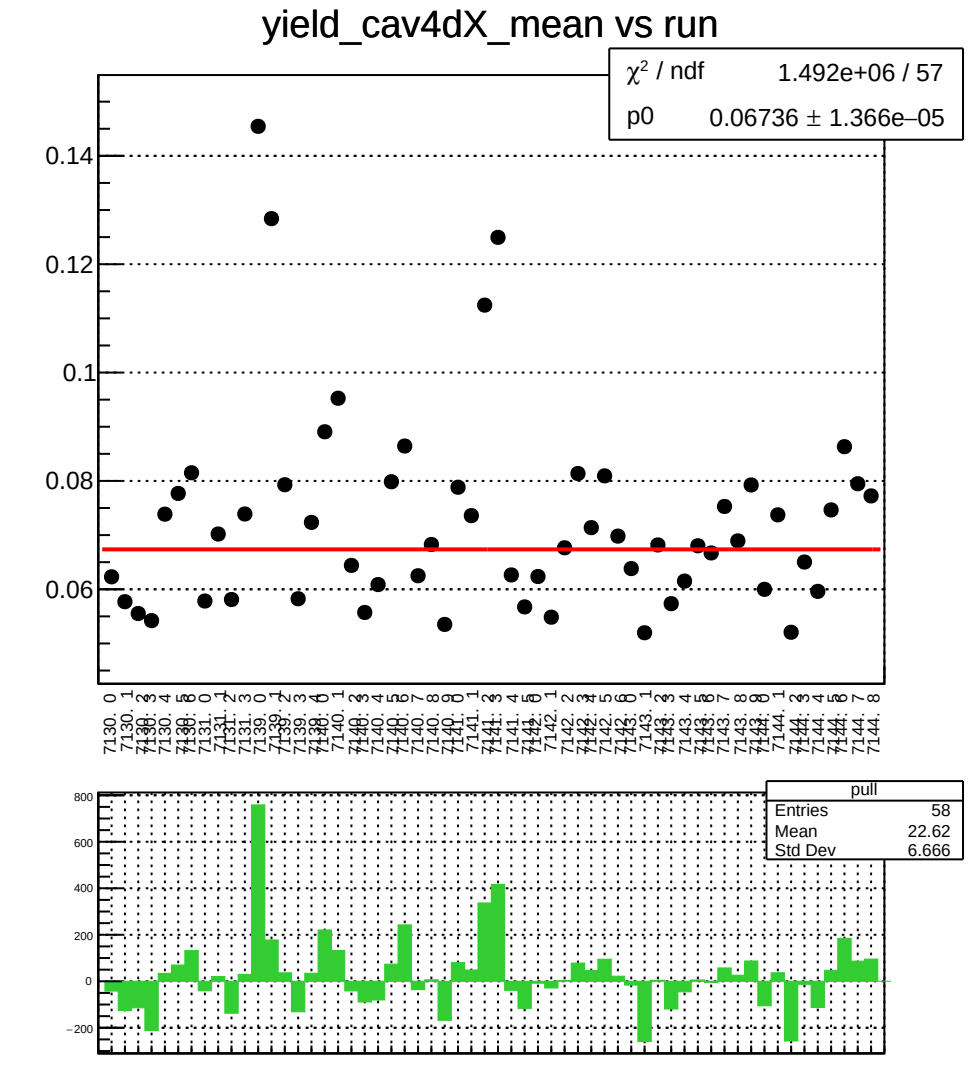

pull1D
Entries 58
Mean −1.813
Std Dev 2.704
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

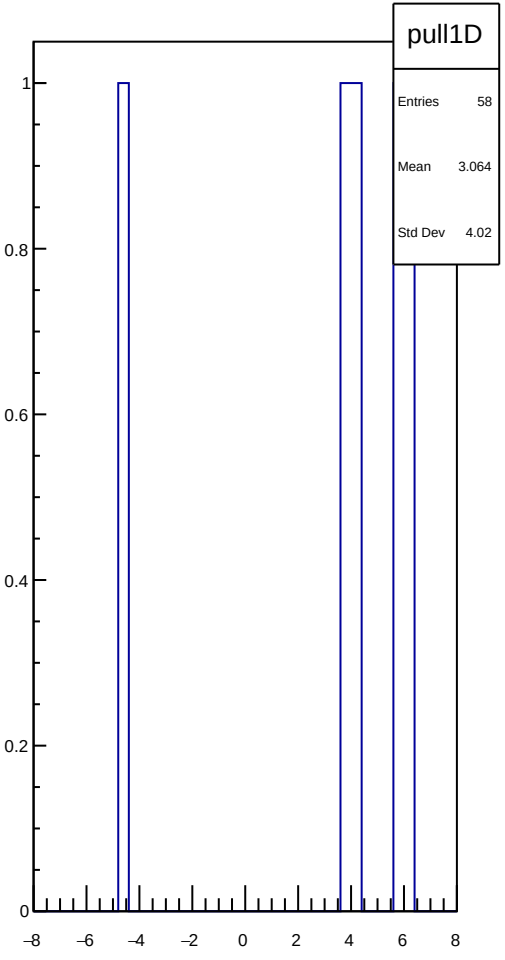

yield_cav4cX_rms vs run
χ² / ndf 1.788e+05 / 57
p0 0.001524 ± 1.581e−06
0.01
0.008
0.006
0.004
0.002

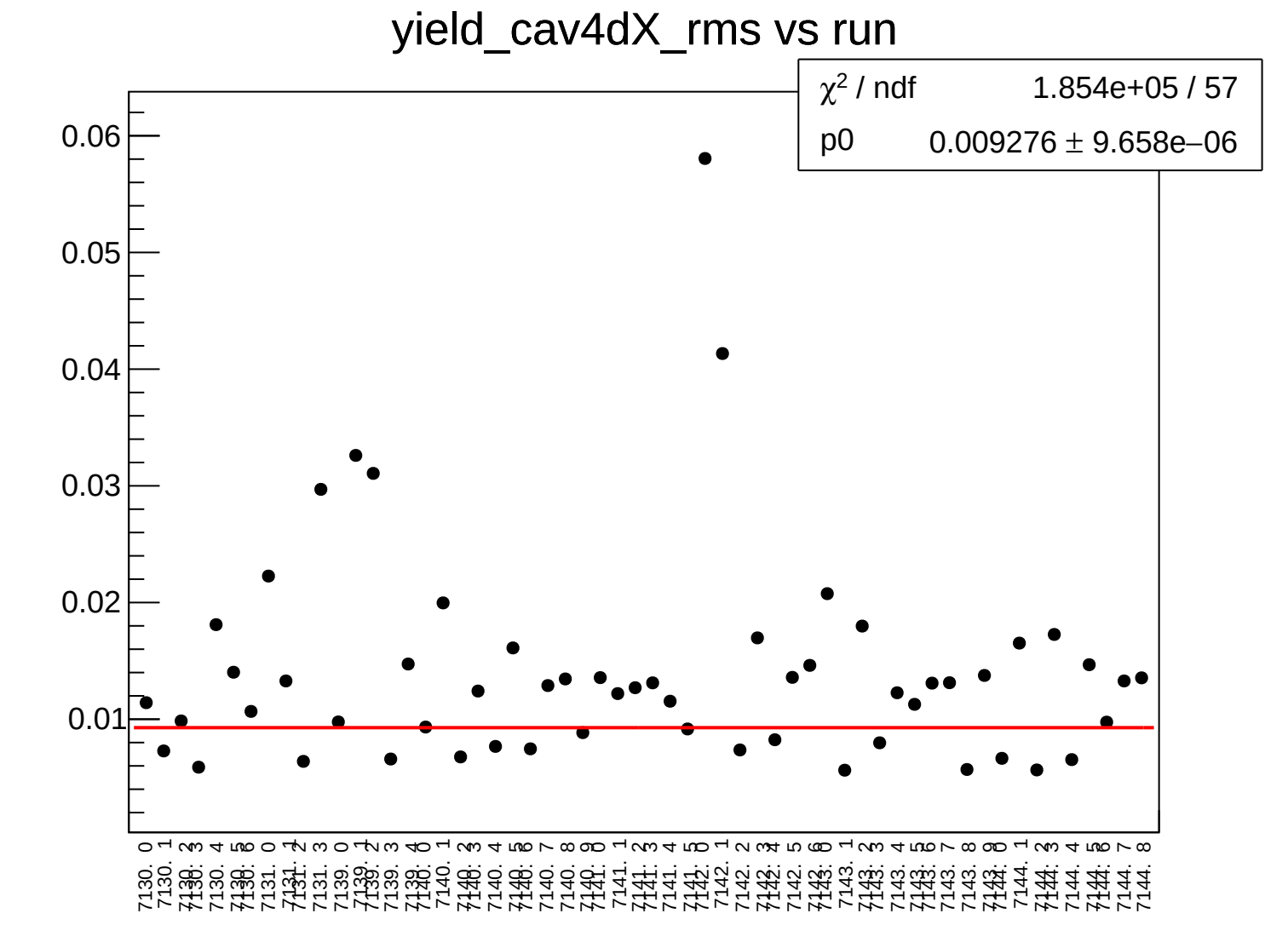

yield_cav4cY_mean vs run
χ² / ndf 7.351e+05 / 57
p0 −0.1187 ± 1.153e−06
−0.116
−0.118
−0.12
−0.122
−0.124
−0.126
pull
Entries 58
Mean −27.28
Std Dev 53.45
100
0
−100
−200
−300
−400
−500

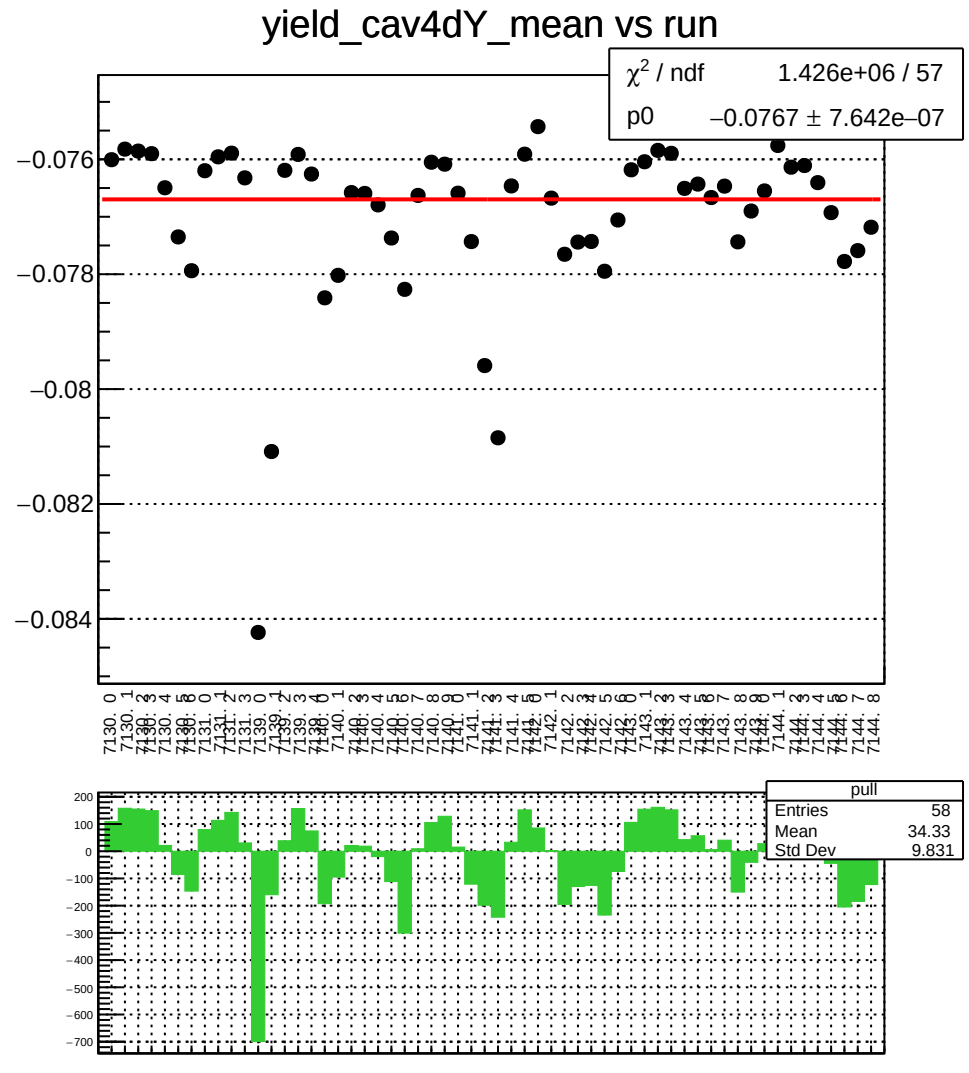

pull1D
Entries 58
Mean 1.274
Std Dev 4.345
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

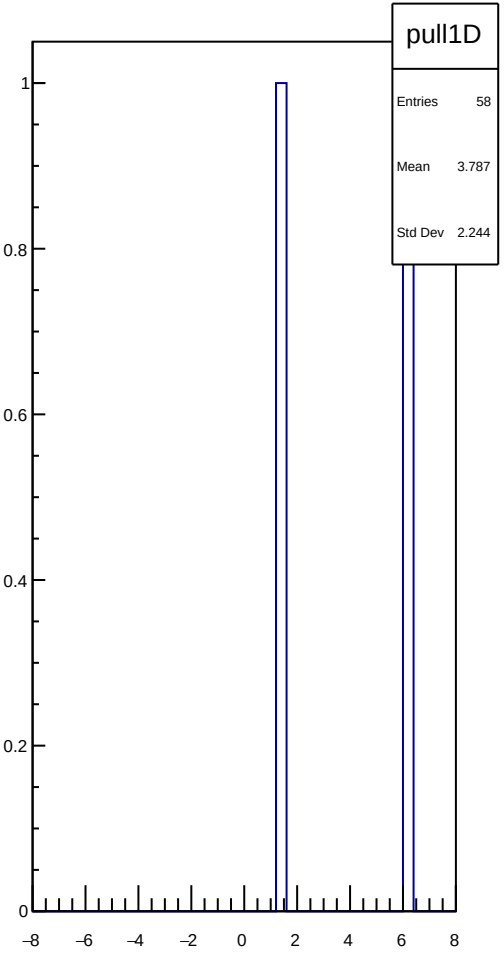

yield_cav4cY_rms vs run
χ² / ndf 7.146e+04 / 57
p0 0.00083 ± 8.153e–07
0.0025
0.002
0.0015
0.001
0.0005

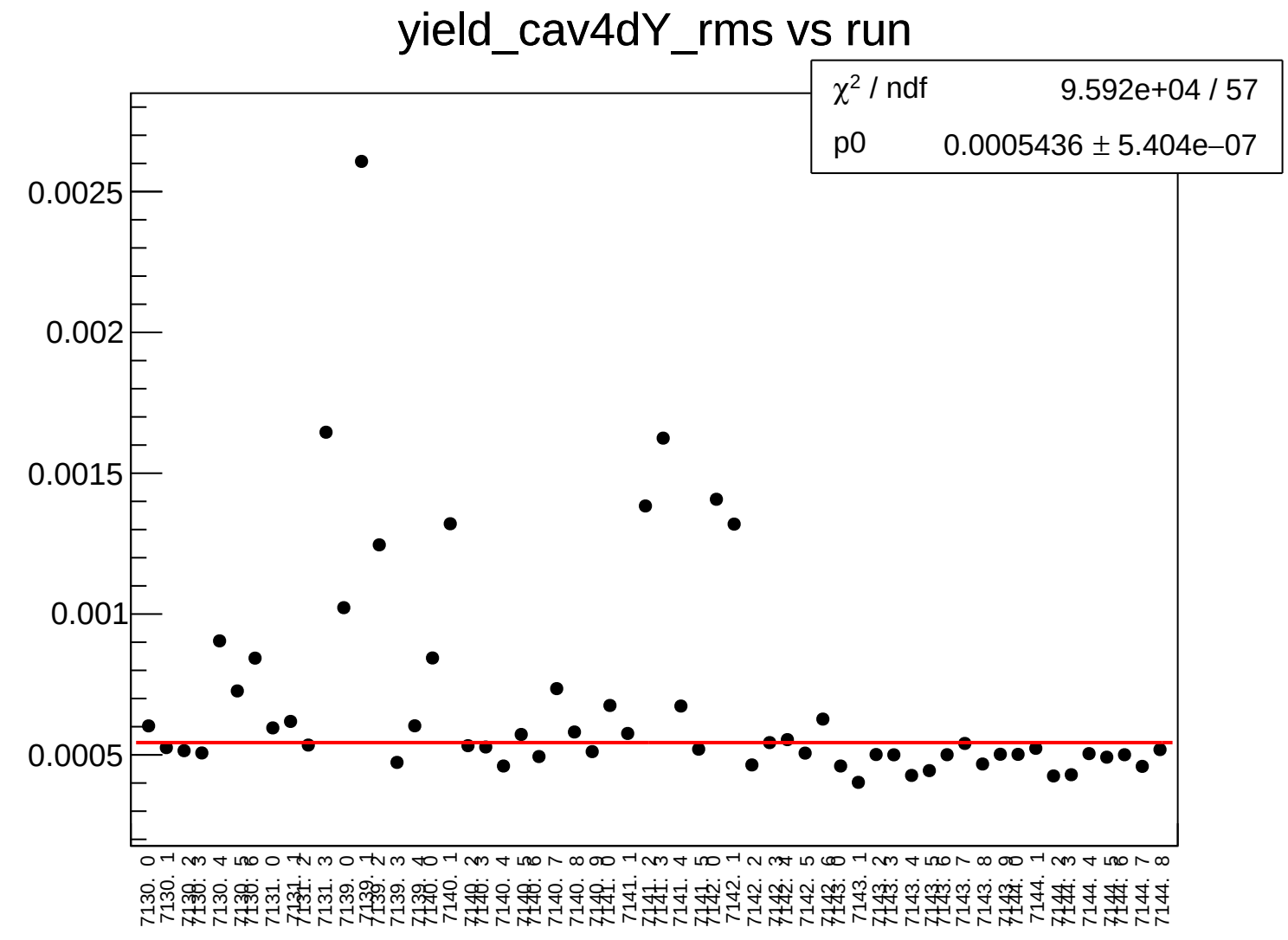

yield_cav4dX_mean vs run
χ² / ndf 1.492e+06 / 57
p0 0.06736 ± 1.366e−05
0.14
0.12
0.1
0.08
0.06
pull
Entries 58
Mean 22.62
Std Dev 6.666
800
600
400
200
0
−200

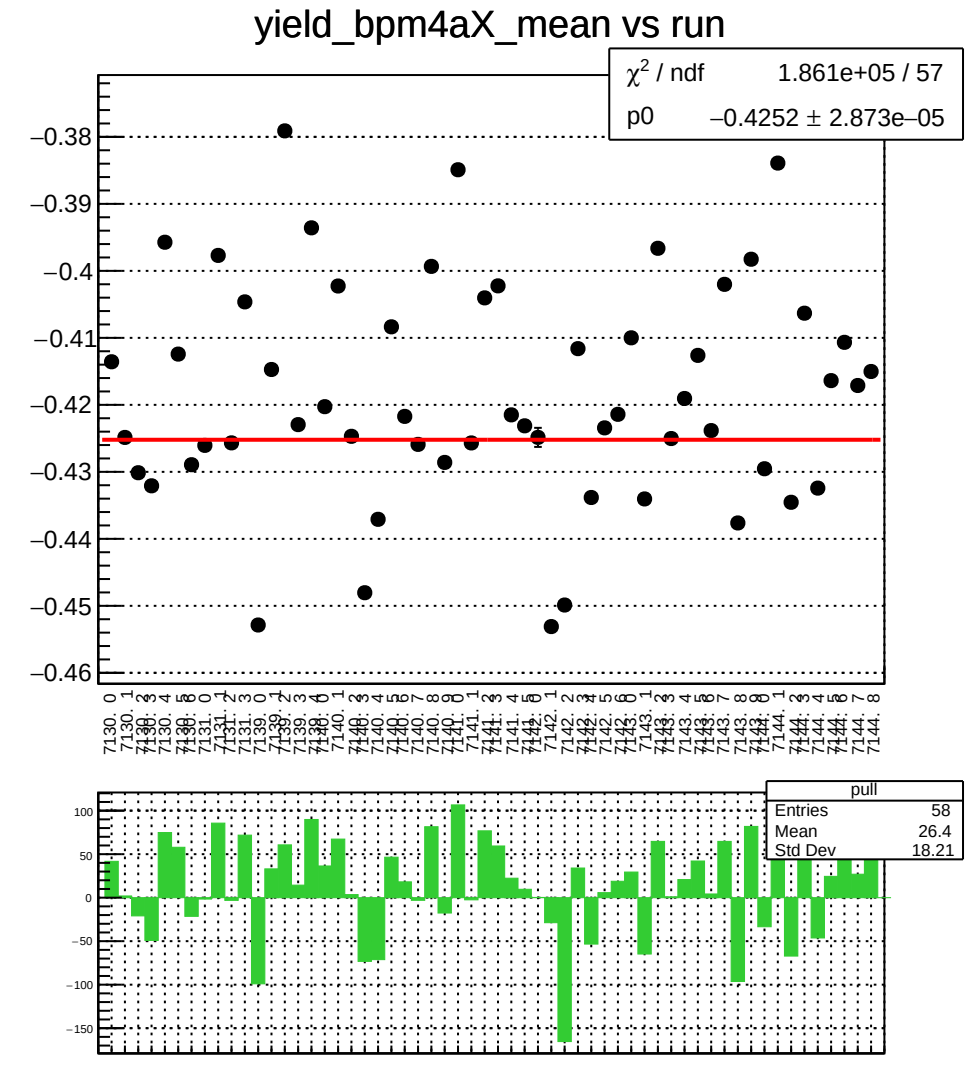

pull1D
Entries 58
Mean 3.064
Std Dev 4.02
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

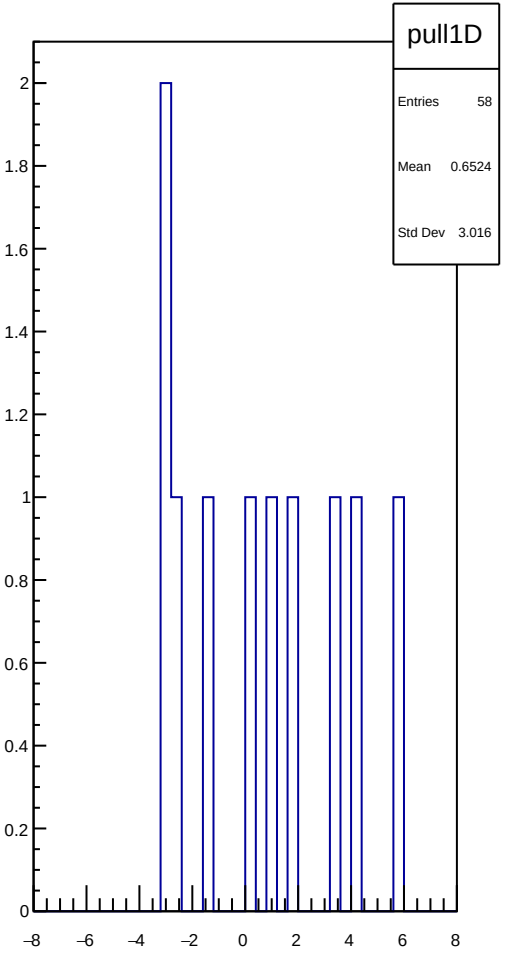

yield_cav4dX_rms vs run
χ² / ndf 1.854e+05 / 57
p0 0.009276 ± 9.658e−06
0.06
0.05
0.04
0.03
0.02
0.01

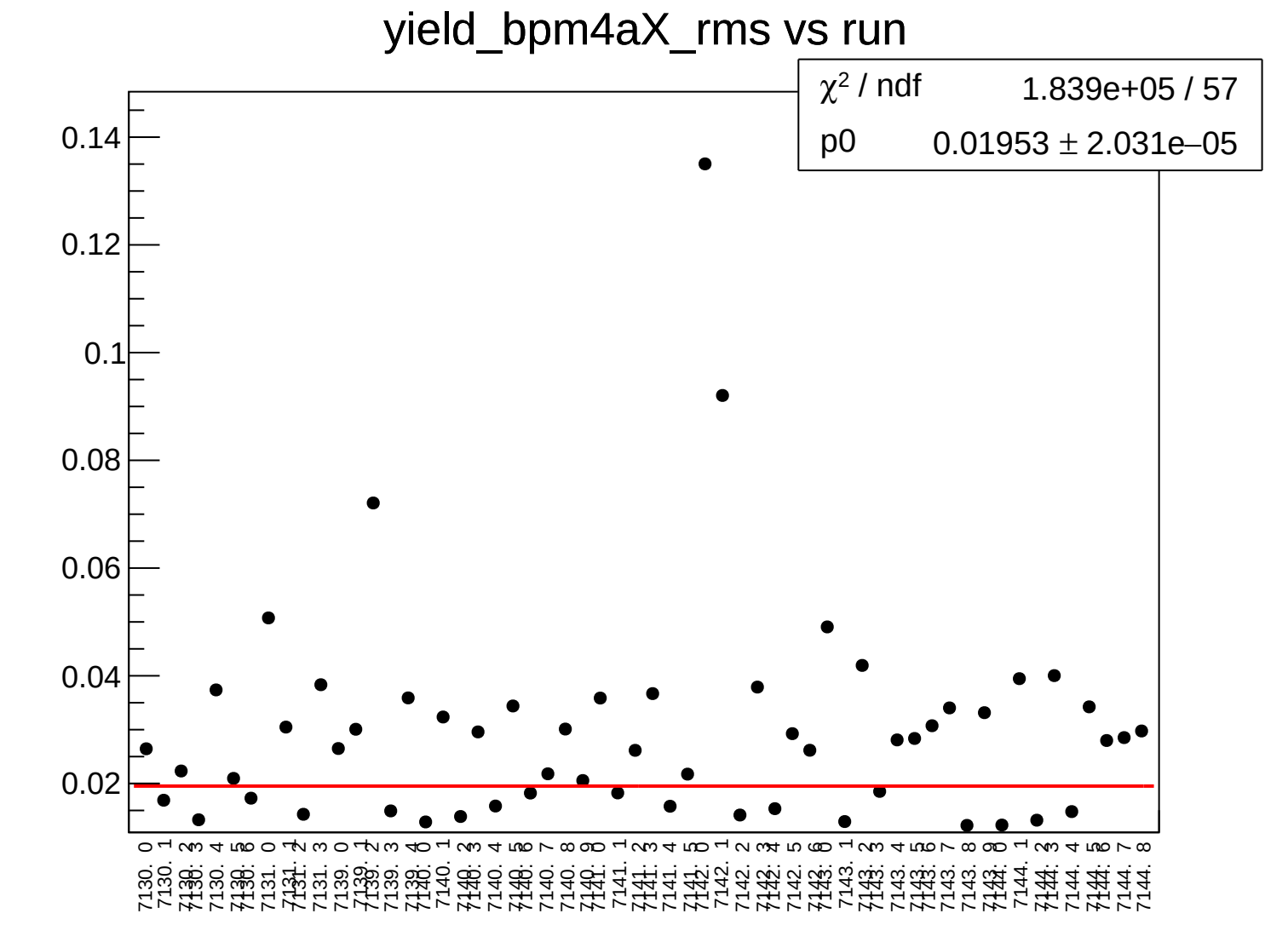

yield_cav4dY_mean vs run
χ² / ndf 1.426e+06 / 57
p0 −0.0767 ± 7.642e−07
−0.076
−0.078
−0.08
−0.082
−0.084
pull
Entries 58
Mean 34.33
Std Dev 9.831
200
100
0
−100
−200
−300
−400
−500
−600
−700

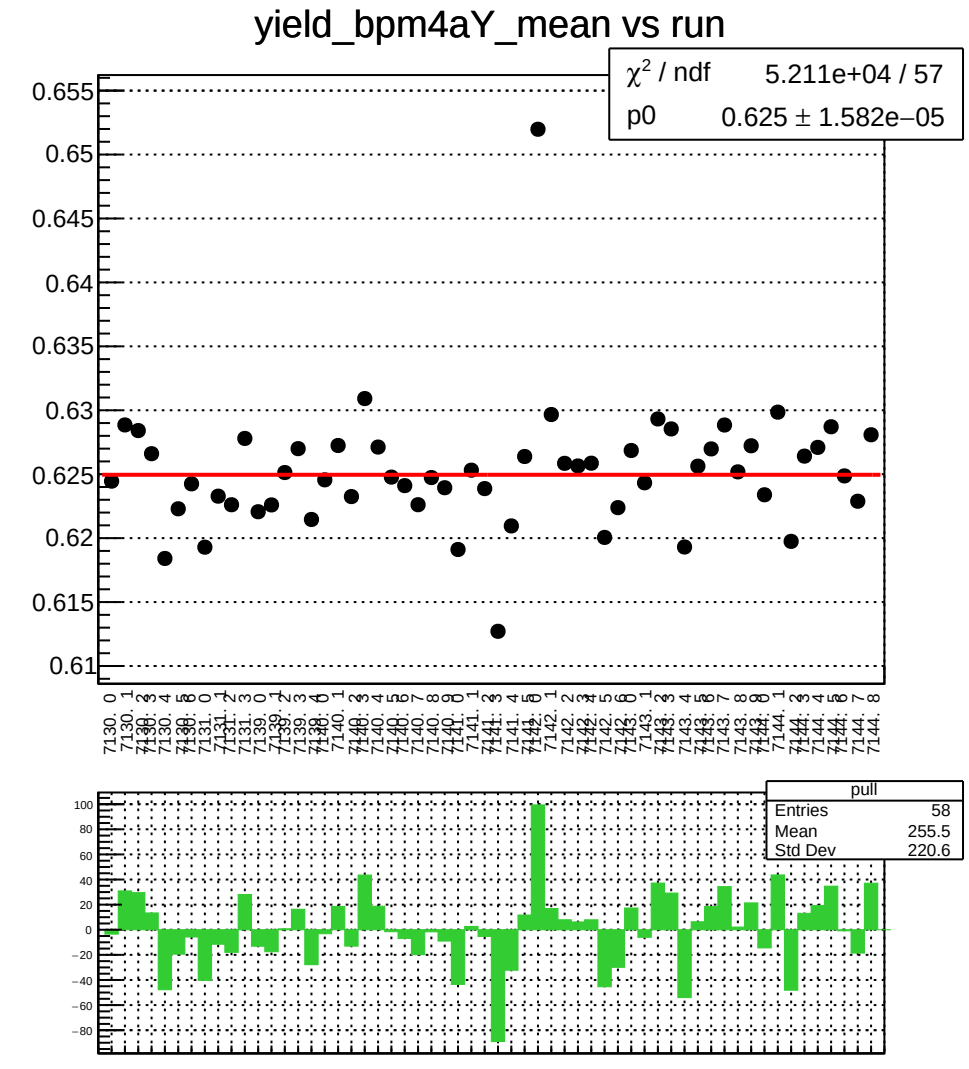

pull1D
Entries 58
Mean 3.787
Std Dev 2.244
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

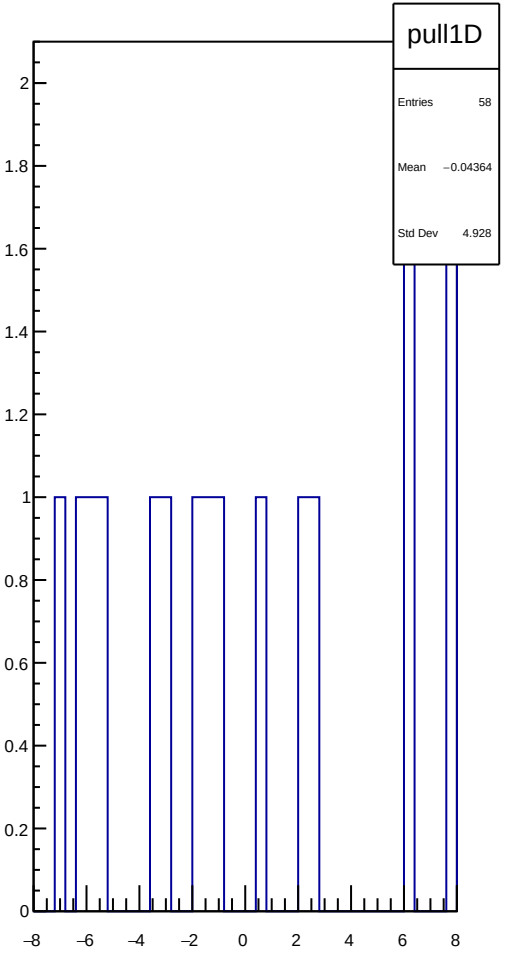

yield_cav4dY_rms vs run
χ² / ndf 9.592e+04 / 57
p0 0.0005436 ± 5.404e−07
0.0025
0.002
0.0015
0.001
0.0005

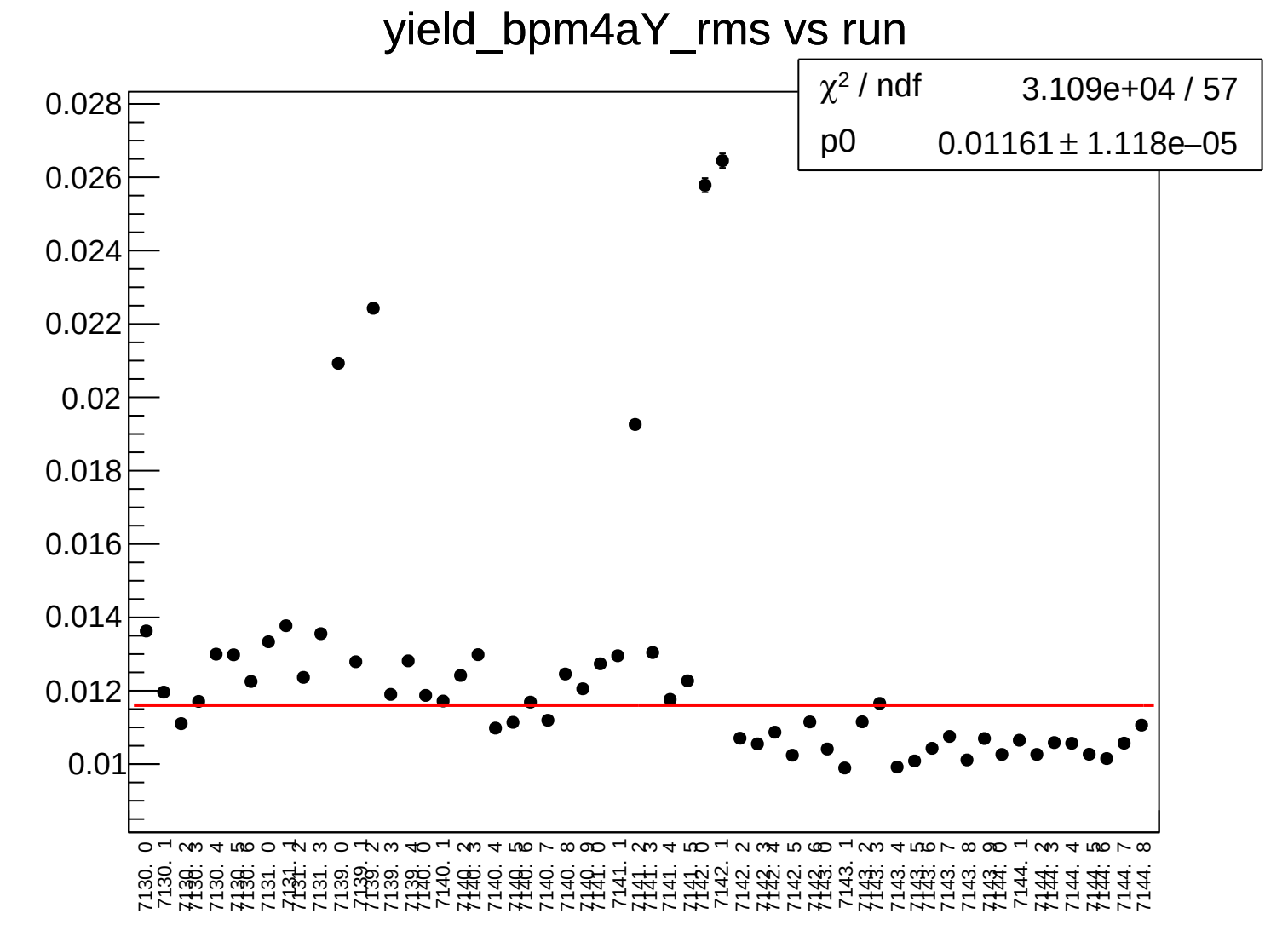

yield_bpm4aX_mean vs run
χ^2 / ndf 1.861e+05 / 57
p0 −0.4252 ± 2.873e−05
−0.38
−0.39
−0.4
−0.41
−0.42
−0.43
−0.44
−0.45
−0.46
pull
Entries 58
Mean 26.4
Std Dev 18.21
100
50
0
−50
−100
−150

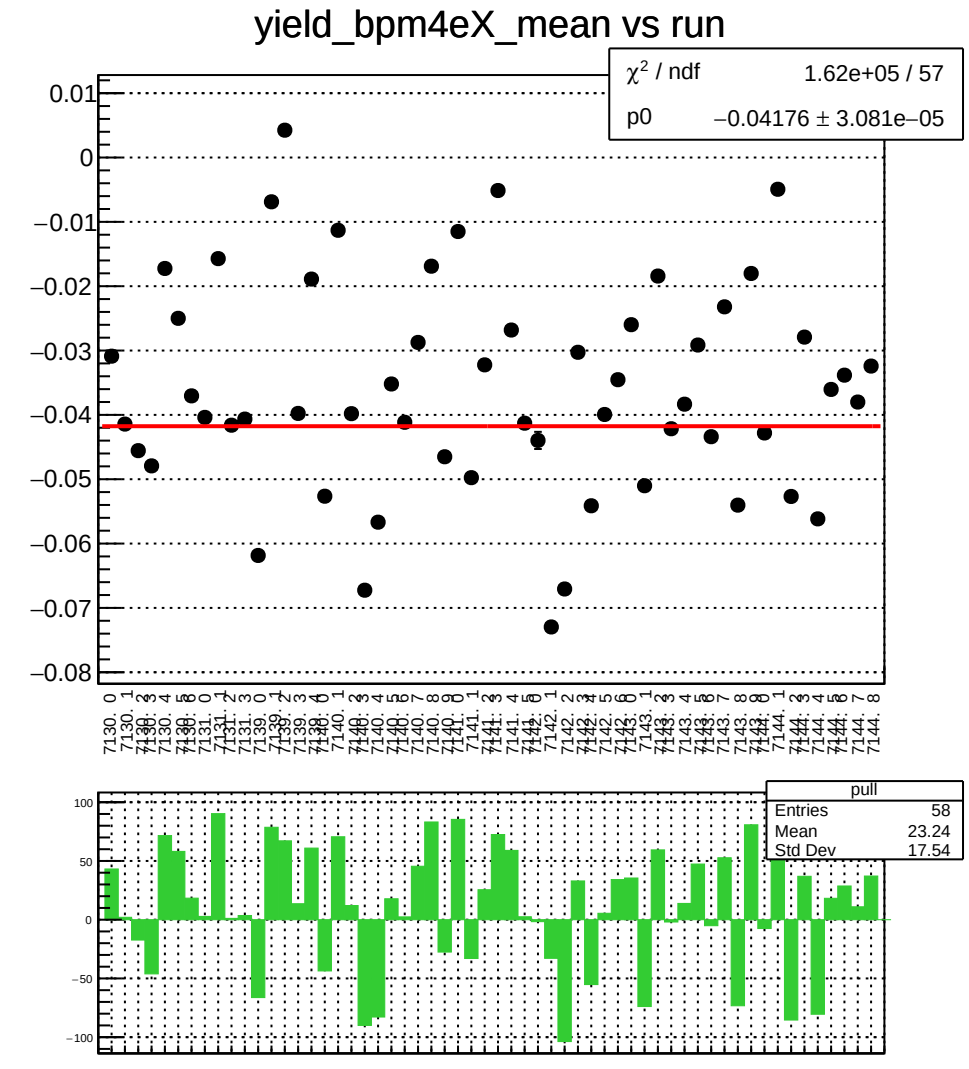

pull1D
Entries 58
Mean 0.6524
Std Dev 3.016
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

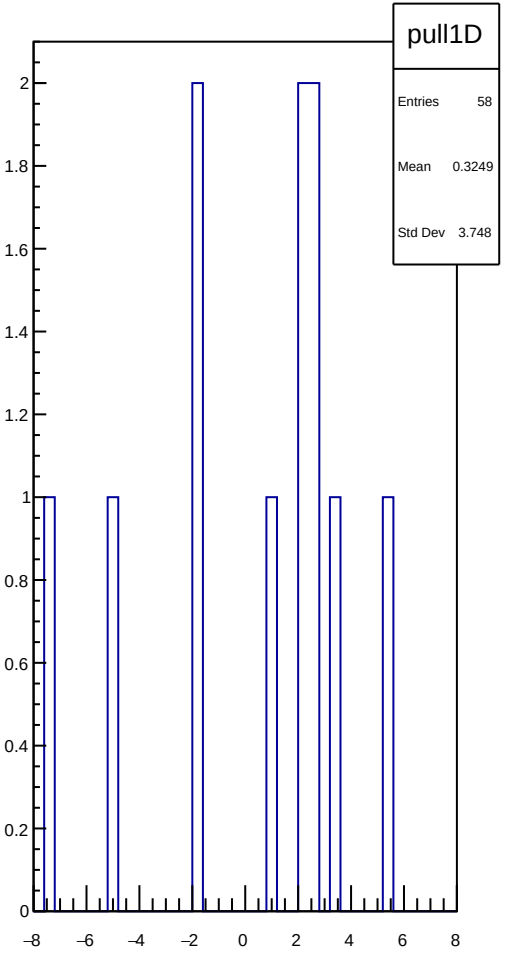

yield_bpm4aX_rms vs run
χ² / ndf 1.839e+05 / 57
p0 0.01953 ± 2.031e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

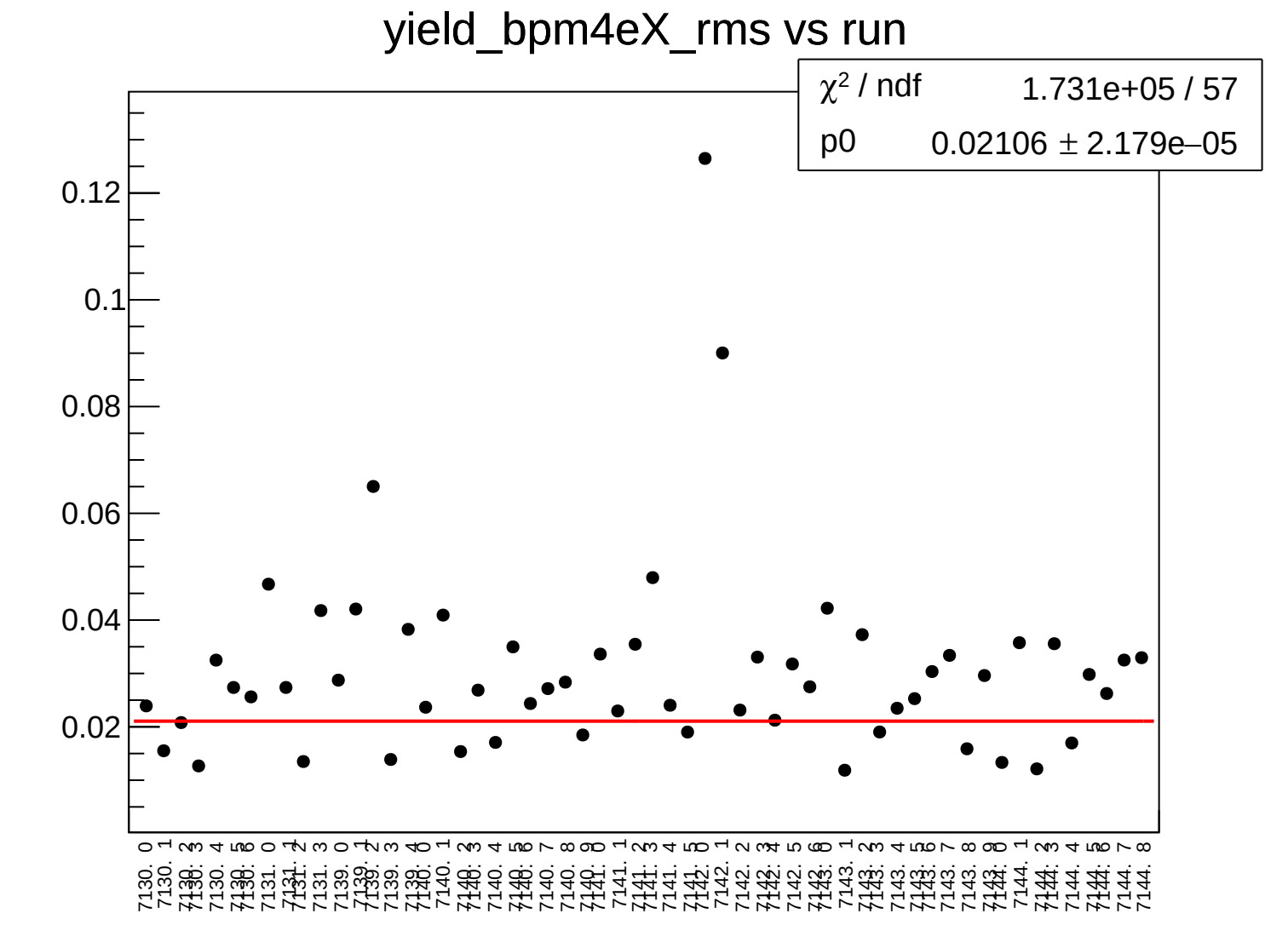

yield_bpm4aY_mean vs run
χ² / ndf 5.211e+04 / 57
p0 0.625 ± 1.582e−05
pull
Entries 58
Mean 255.5
Std Dev 220.6

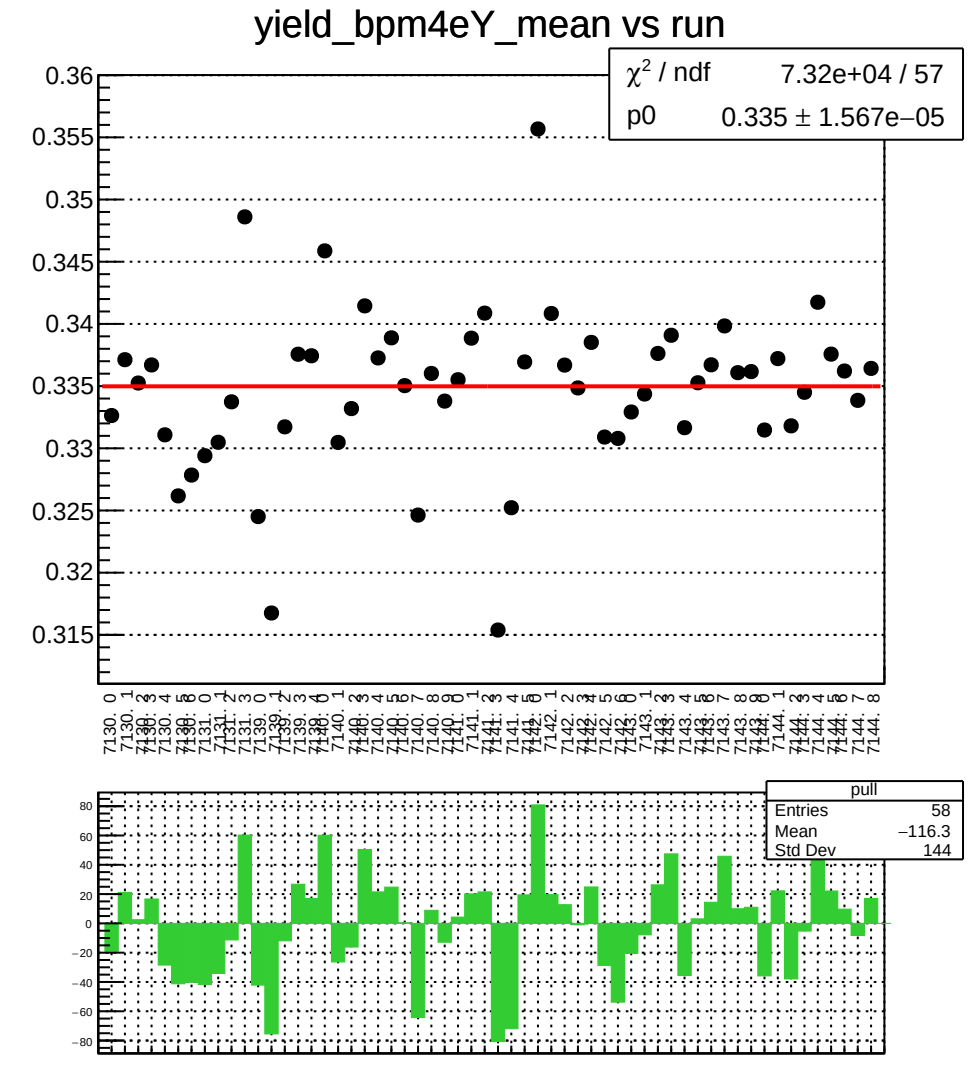

pull1D
Entries 58
Mean −0.04364
Std Dev 4.928

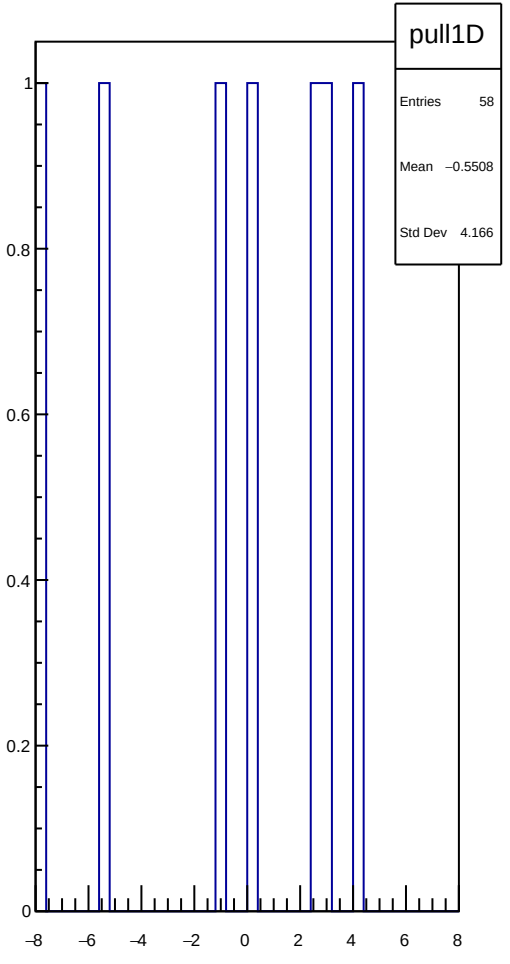

yield_bpm4aY_rms vs run
χ² / ndf 3.109e+04 / 57
p0 0.01161 ± 1.118e–05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

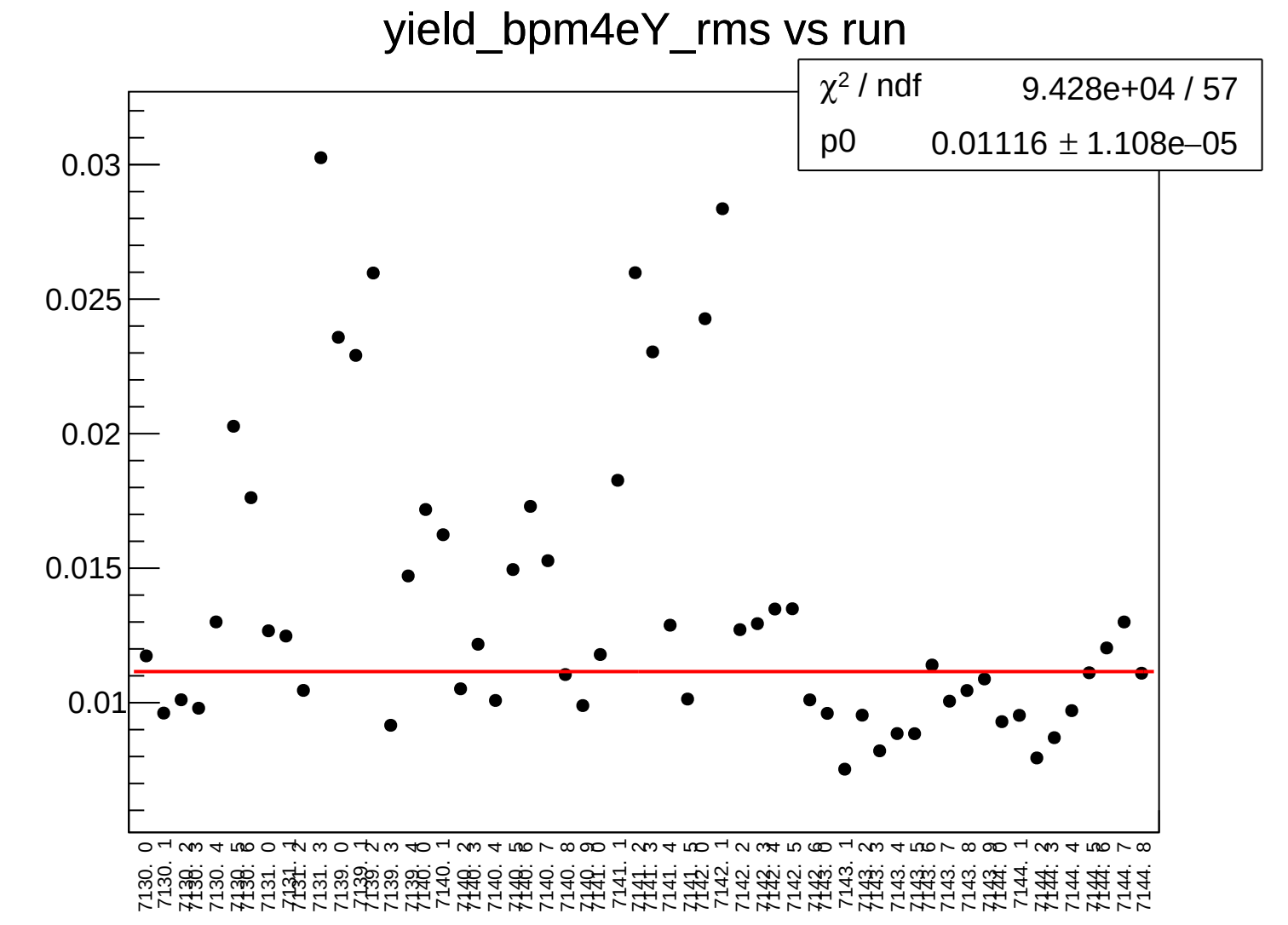

yield_bpm4eX_mean vs run
χ² / ndf 1.62e+05 / 57
p0 −0.04176 ± 3.081e−05
pull
Entries 58
Mean 23.24
Std Dev 17.54

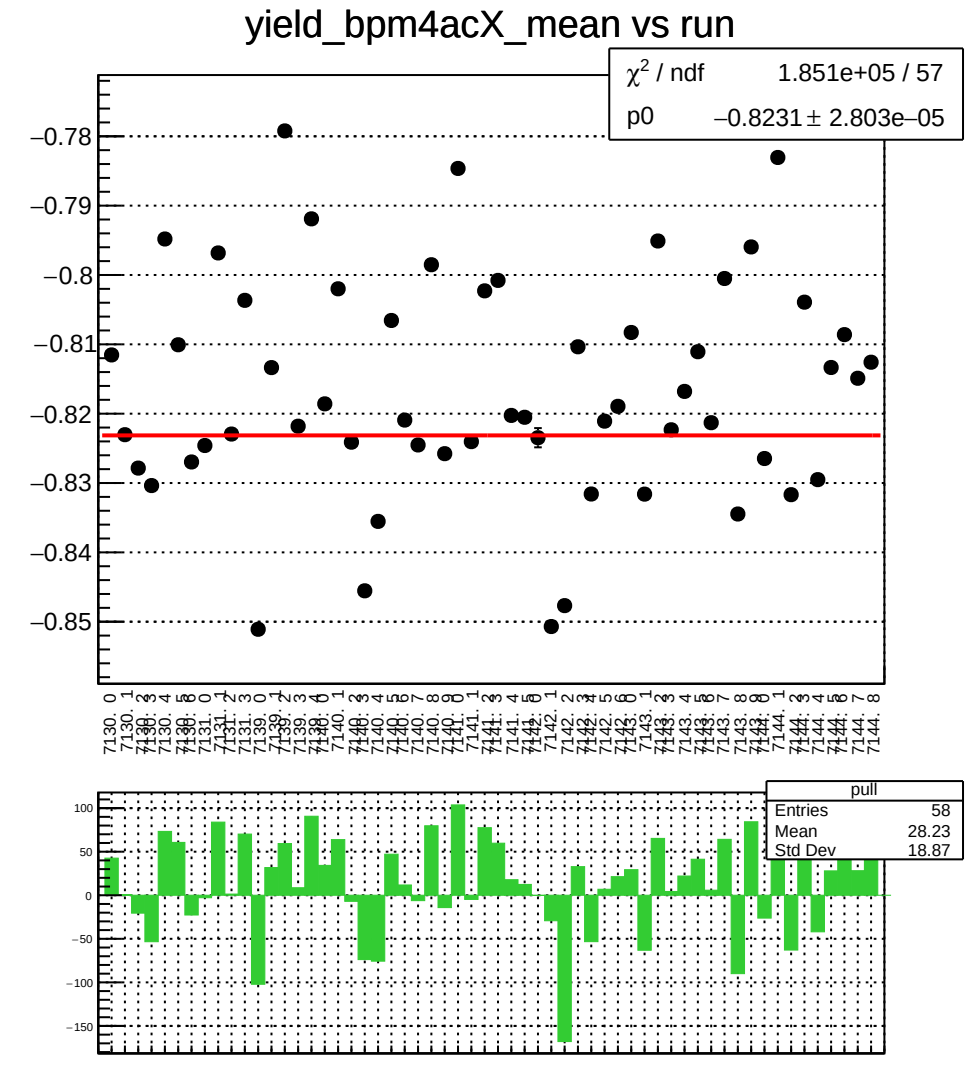

pull1D
Entries 58
Mean 0.3249
Std Dev 3.748

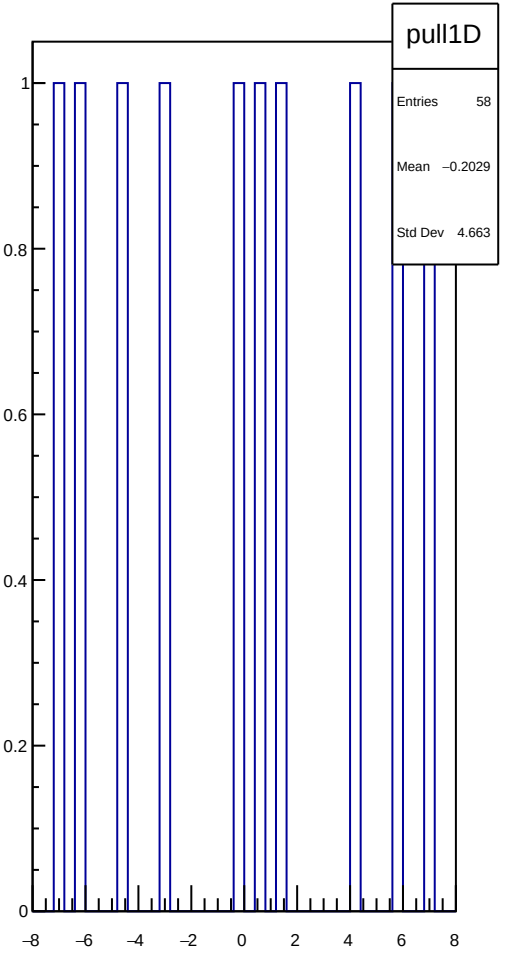

yield_bpm4eX_rms vs run
χ² / ndf 1.731e+05 / 57
p0 0.02106 ± 2.179e–05
0.12
0.1
0.08
0.06
0.04
0.02

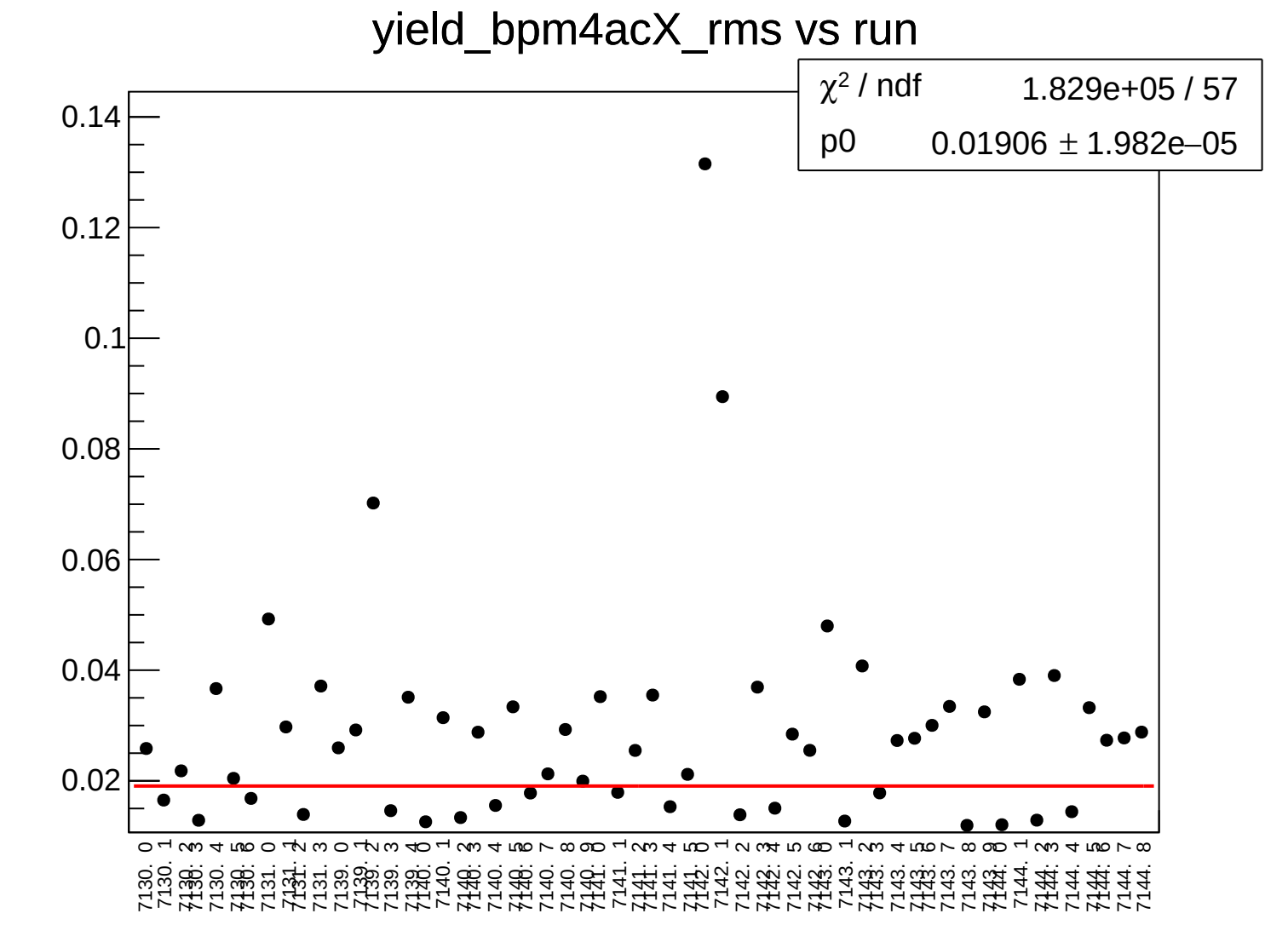

yield_bpm4eY_mean vs run
χ² / ndf 7.32e+04 / 57
p0 0.335 ± 1.567e−05
pull
Entries 58
Mean −116.3
Std Dev 144

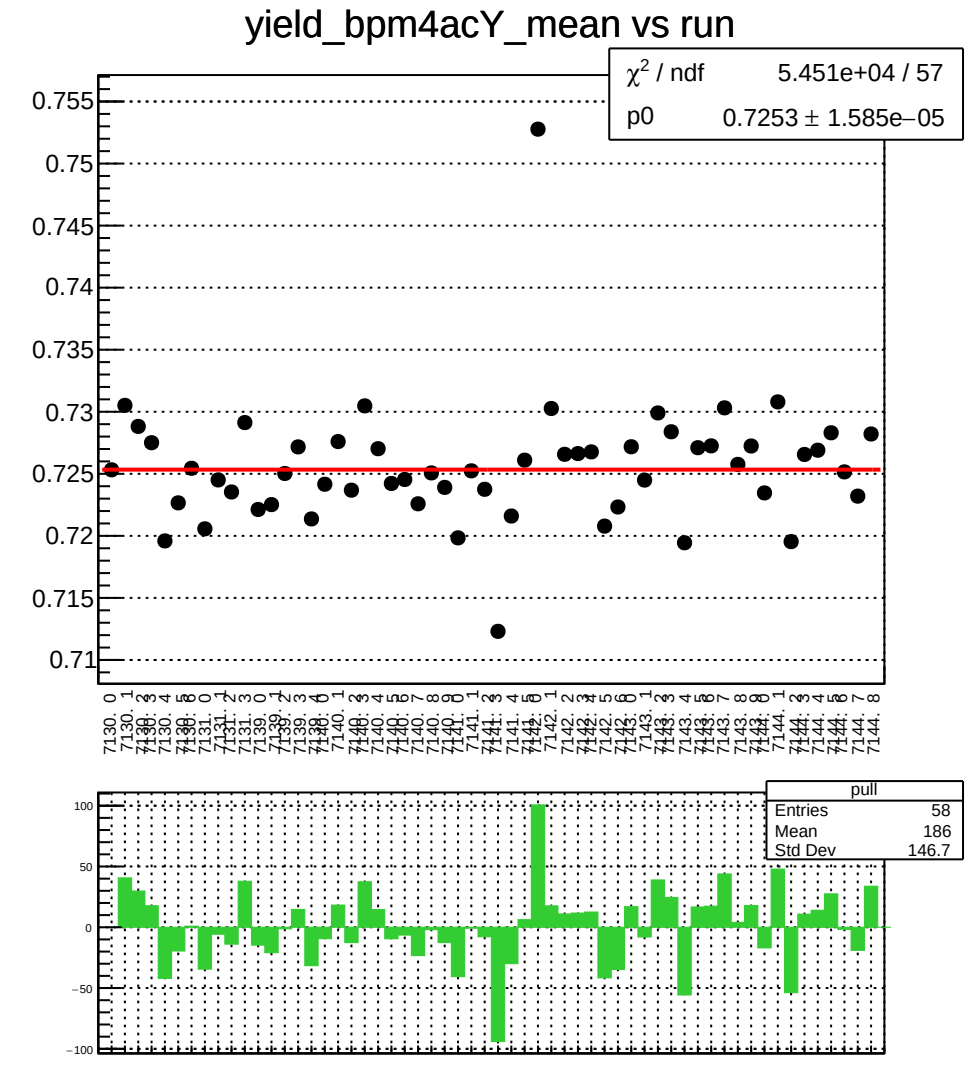

pull1D
Entries 58
Mean −0.5508
Std Dev 4.166

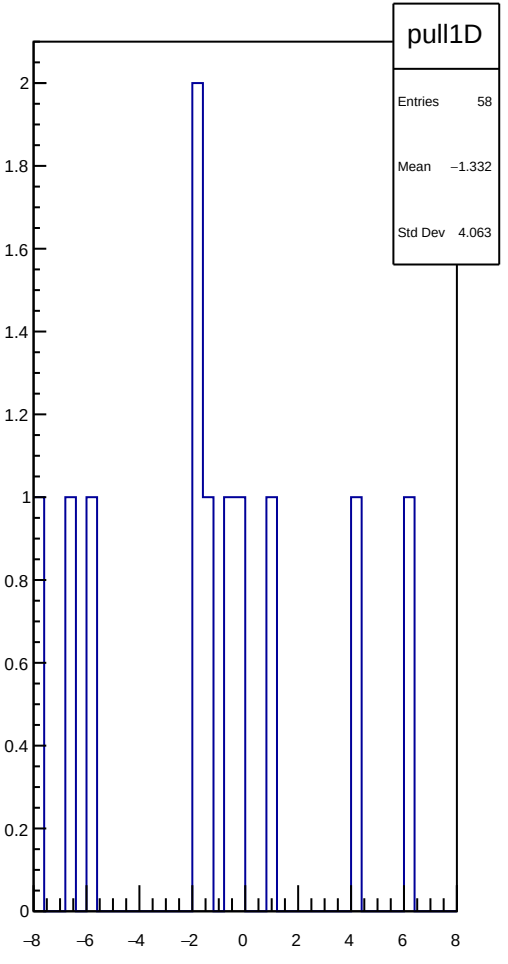

yield_bpm4eY_rms vs run
χ² / ndf 9.428e+04 / 57
p0 0.01116 ± 1.108e–05
0.03
0.025
0.02
0.015
0.01

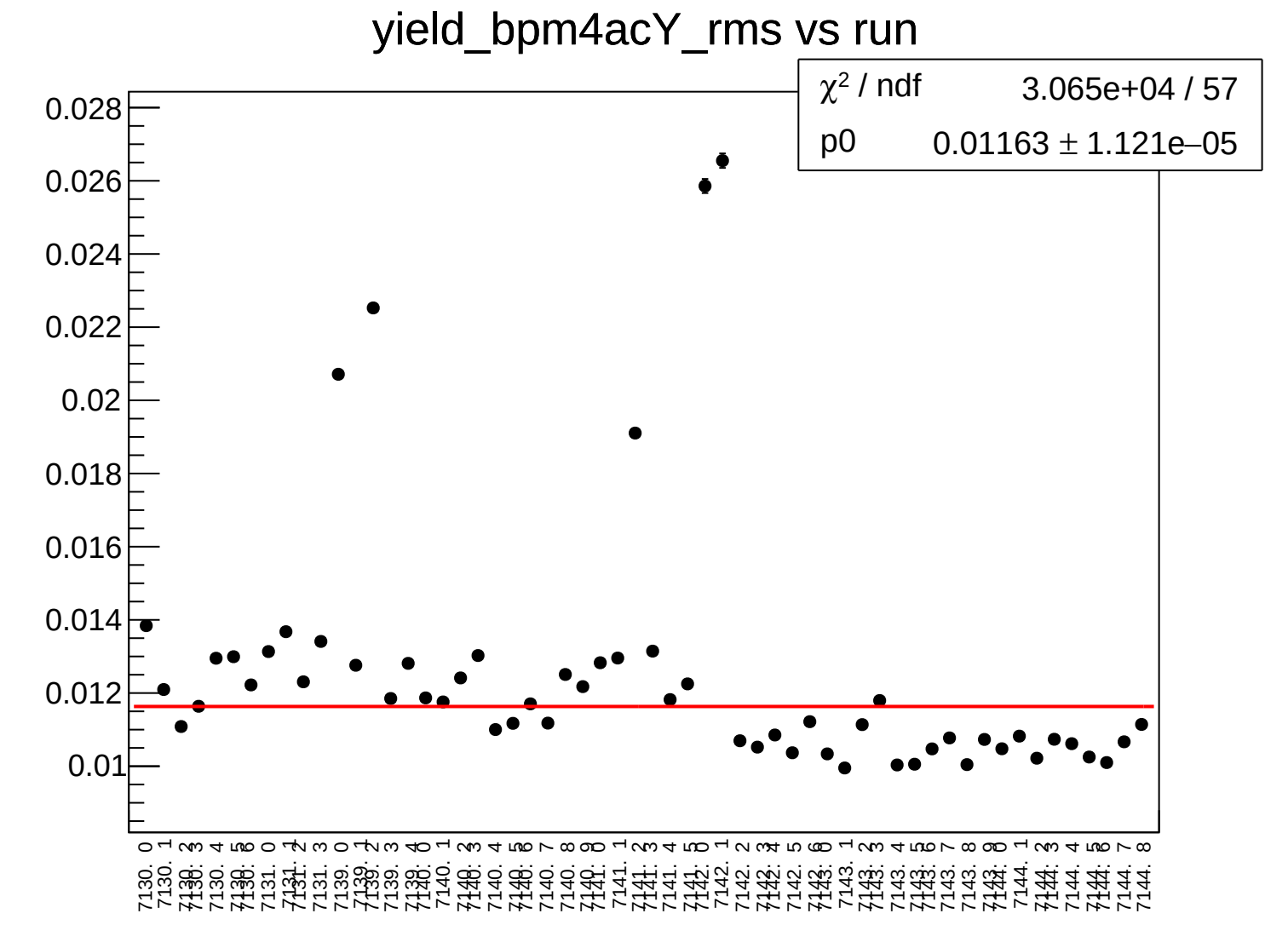

yield_bpm4acX_mean vs run
χ² / ndf 1.851e+05 / 57
p0 −0.8231 ± 2.803e−05
−0.78
−0.79
−0.8
−0.81
−0.82
−0.83
−0.84
−0.85
pull
Entries 58
Mean 28.23
Std Dev 18.87
100
50
0
−50
−100
−150

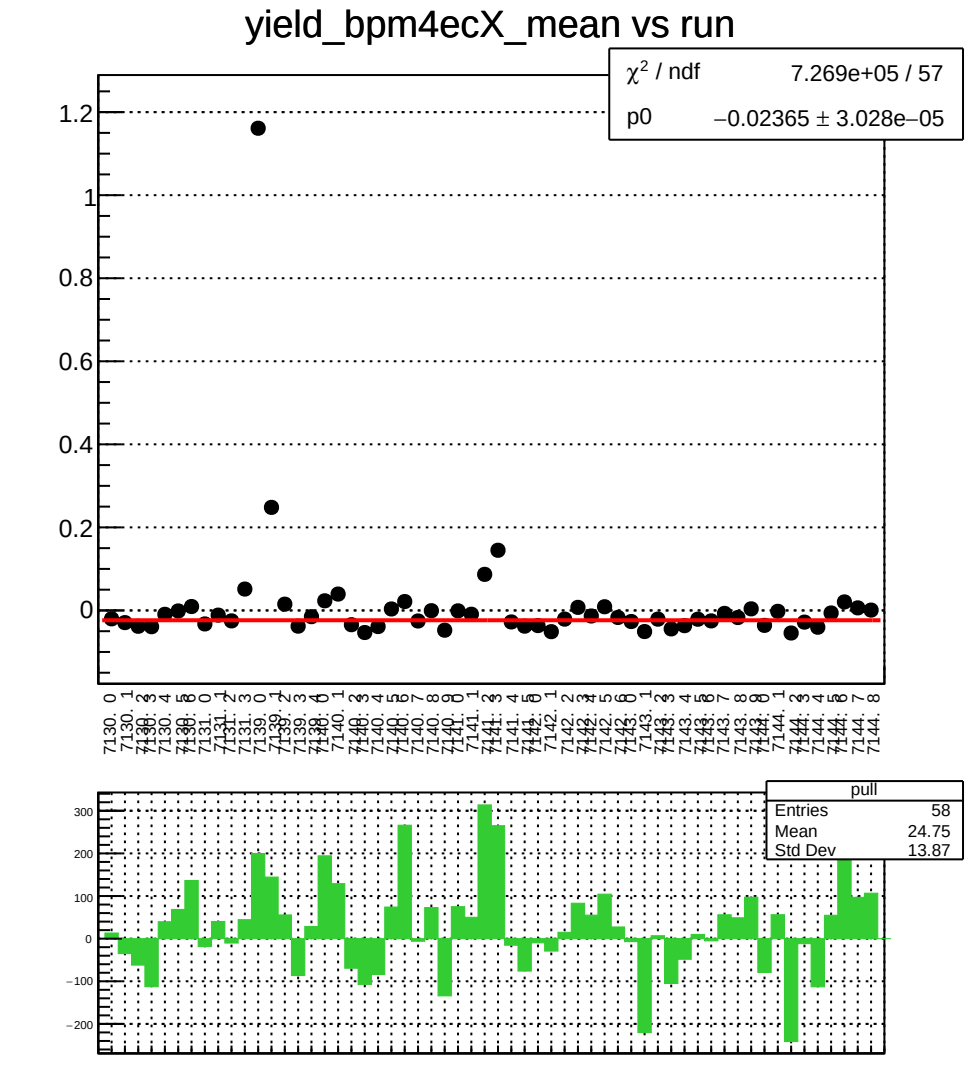

pull1D
Entries 58
Mean −0.2029
Std Dev 4.663
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

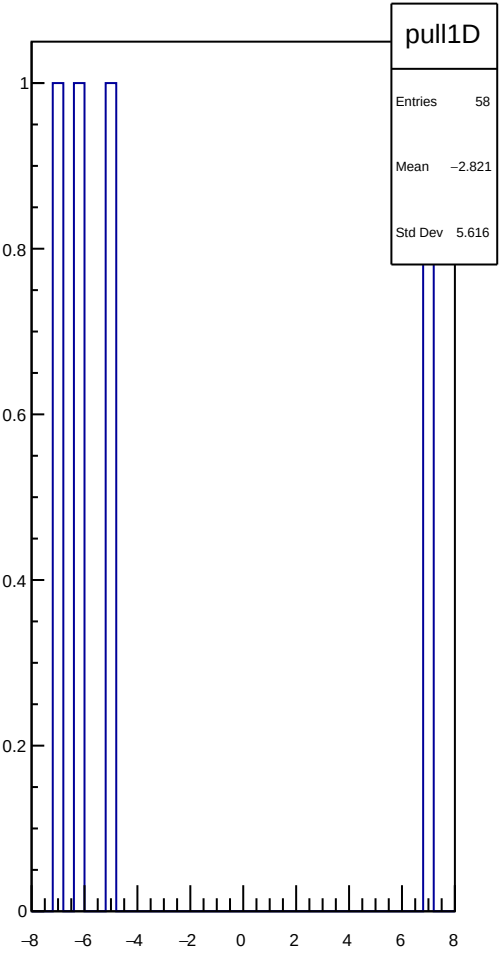

yield_bpm4acX_rms vs run
χ² / ndf 1.829e+05 / 57
p0 0.01906 ± 1.982e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

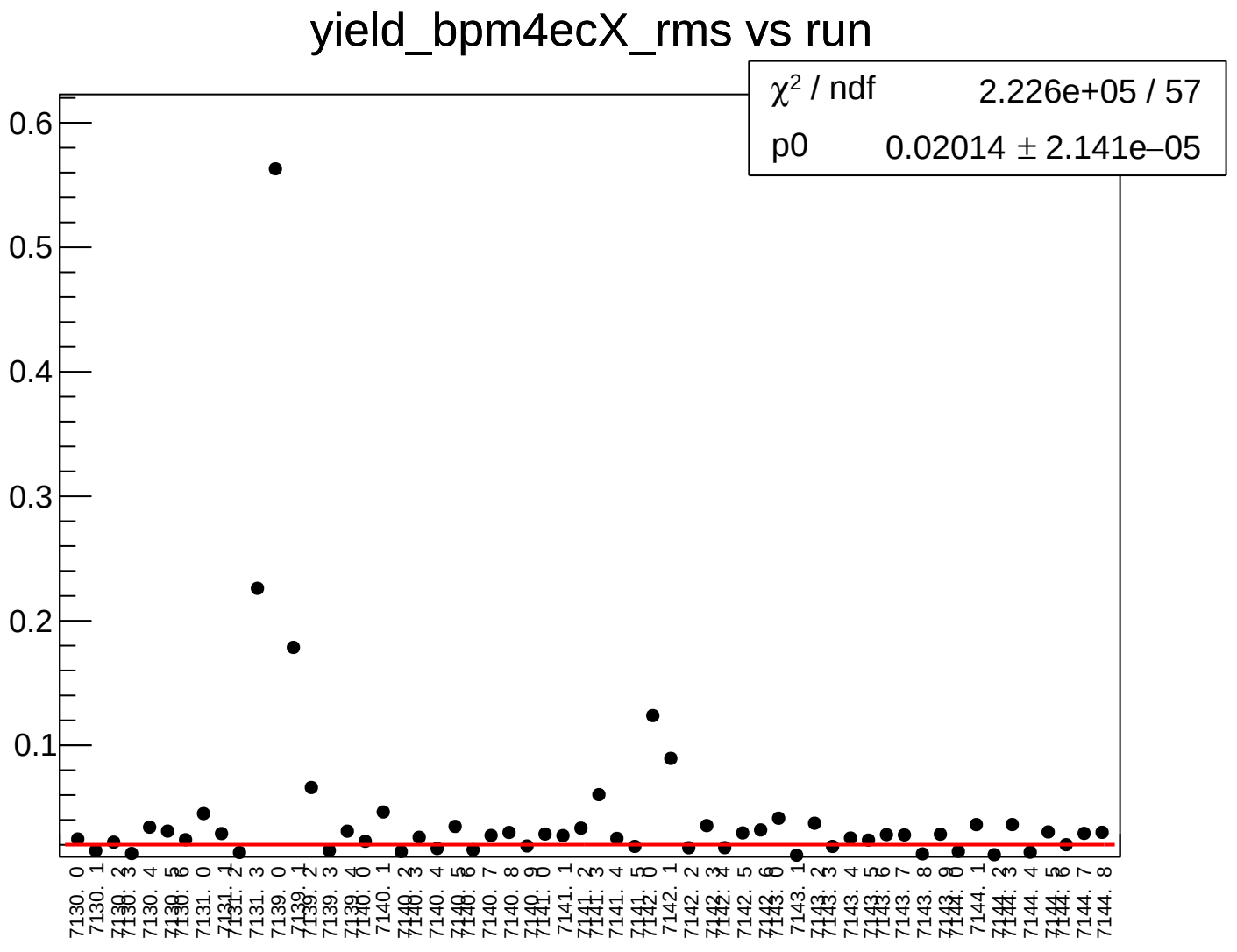

yield_bpm4acY_mean vs run
χ² / ndf 5.451e+04 / 57
p0 0.7253 ± 1.585e−05
0.755
0.75
0.745
0.74
0.735
0.73
0.725
0.72
0.715
0.71
pull
Entries 58
Mean 186
Std Dev 146.7
100
50
0
−50
−100

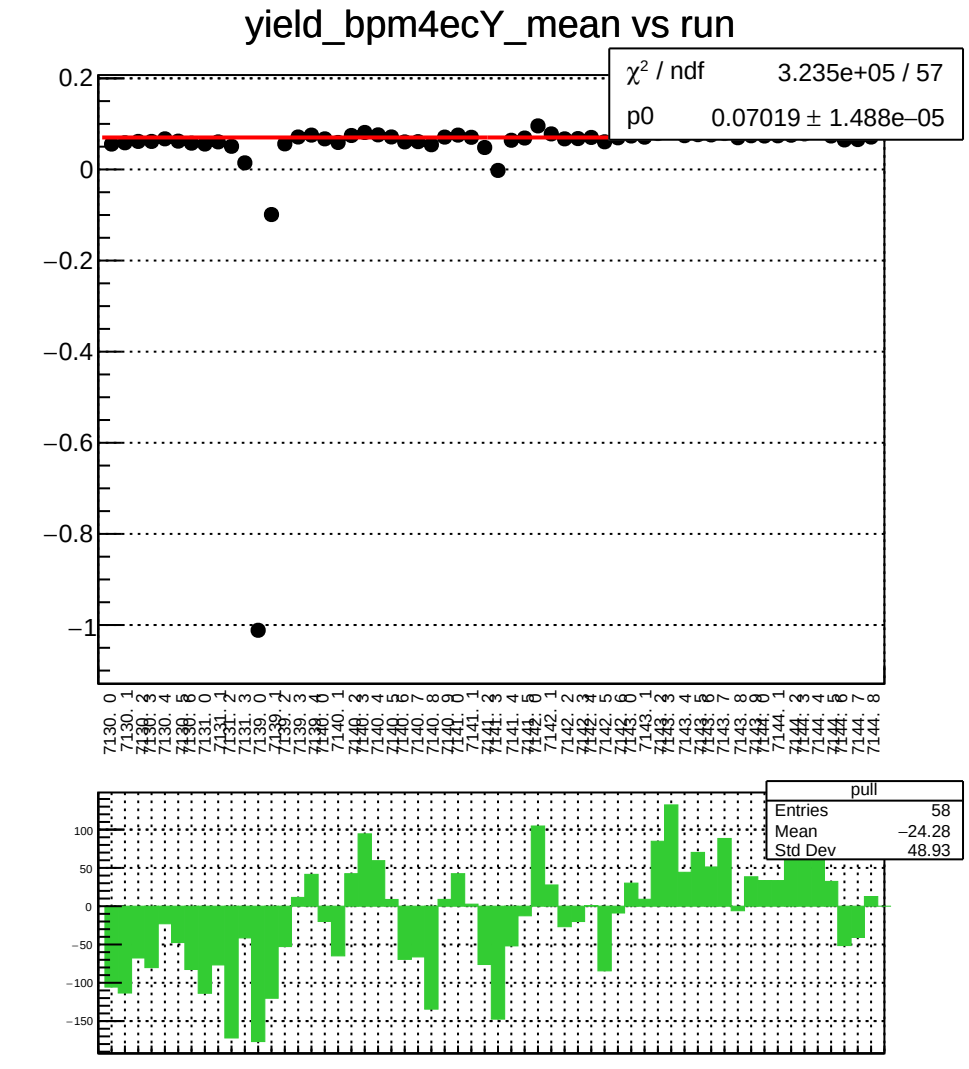

pull1D
Entries 58
Mean −1.332
Std Dev 4.063
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

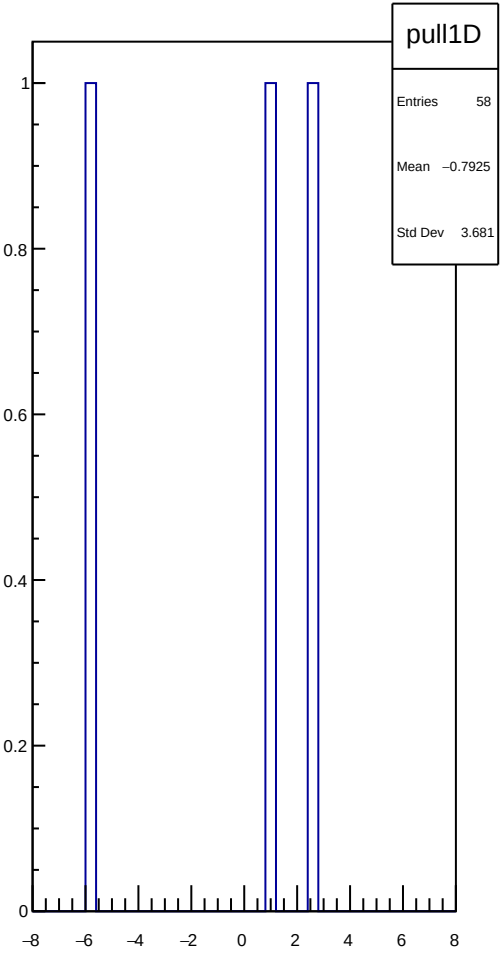

yield_bpm4acY_rms vs run
χ² / ndf 3.065e+04 / 57
p0 0.01163 ± 1.121e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

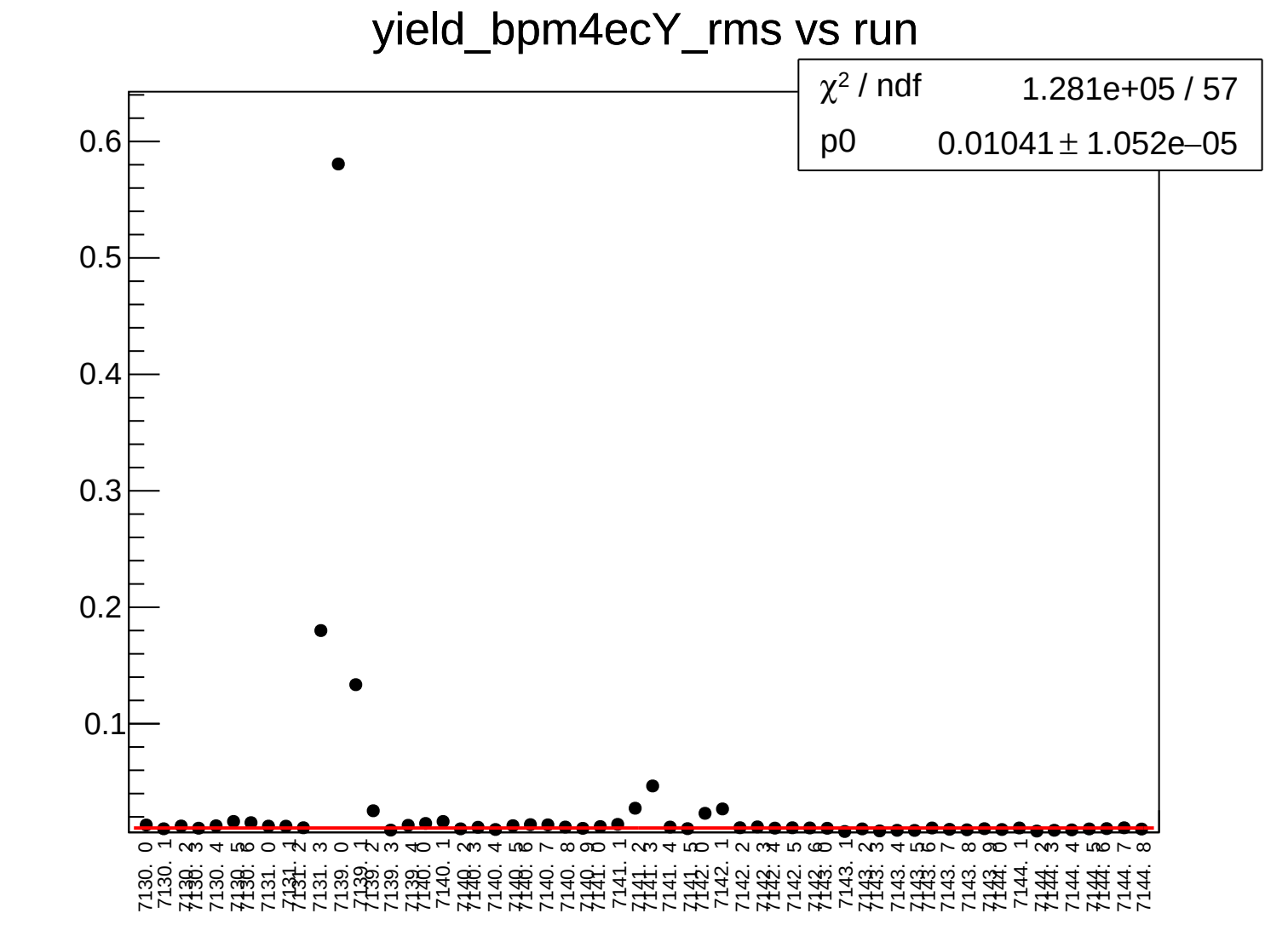

yield_bpm4ecX_mean vs run
χ² / ndf 7.269e+05 / 57
p0 −0.02365 ± 3.028e−05
pull
Entries 58
Mean 24.75
Std Dev 13.87

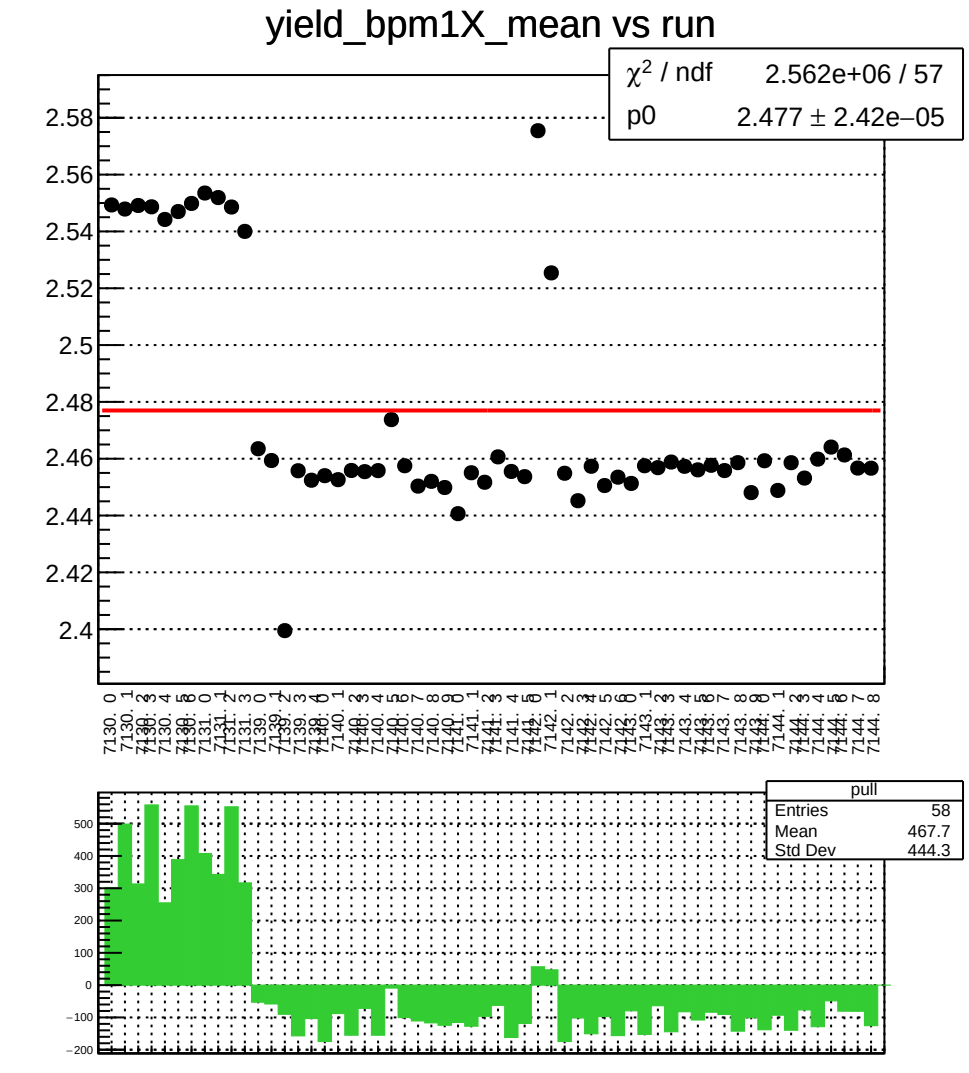

pull1D
Entries 58
Mean −2.821
Std Dev 5.616

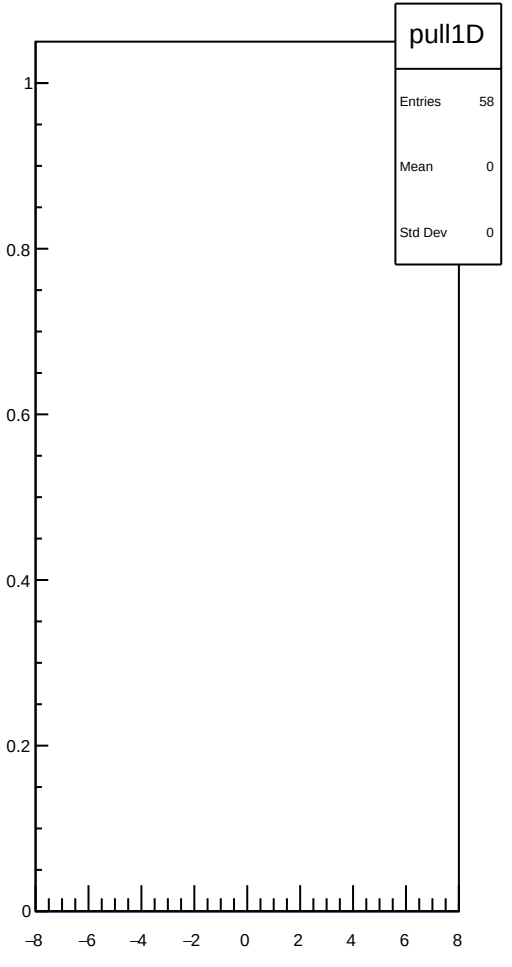

yield_bpm4ecX_rms vs run
χ² / ndf 2.226e+05 / 57
p0 0.02014 ± 2.141e−05
0.6
0.5
0.4
0.3
0.2
0.1

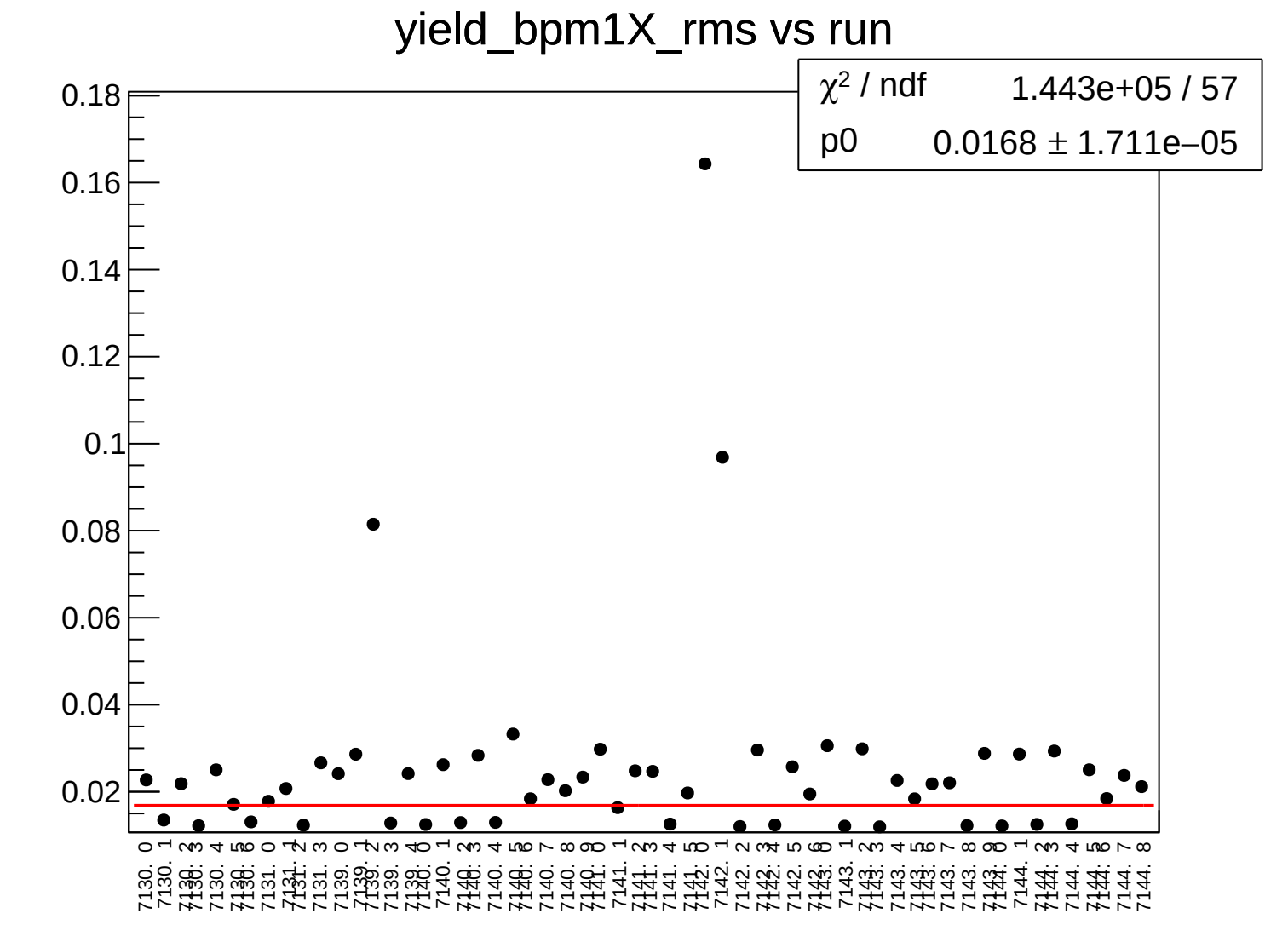

yield_bpm4ecY_mean vs run
χ² / ndf 3.235e+05 / 57
p0 0.07019 ± 1.488e−05
pull
Entries 58
Mean −24.28
Std Dev 48.93

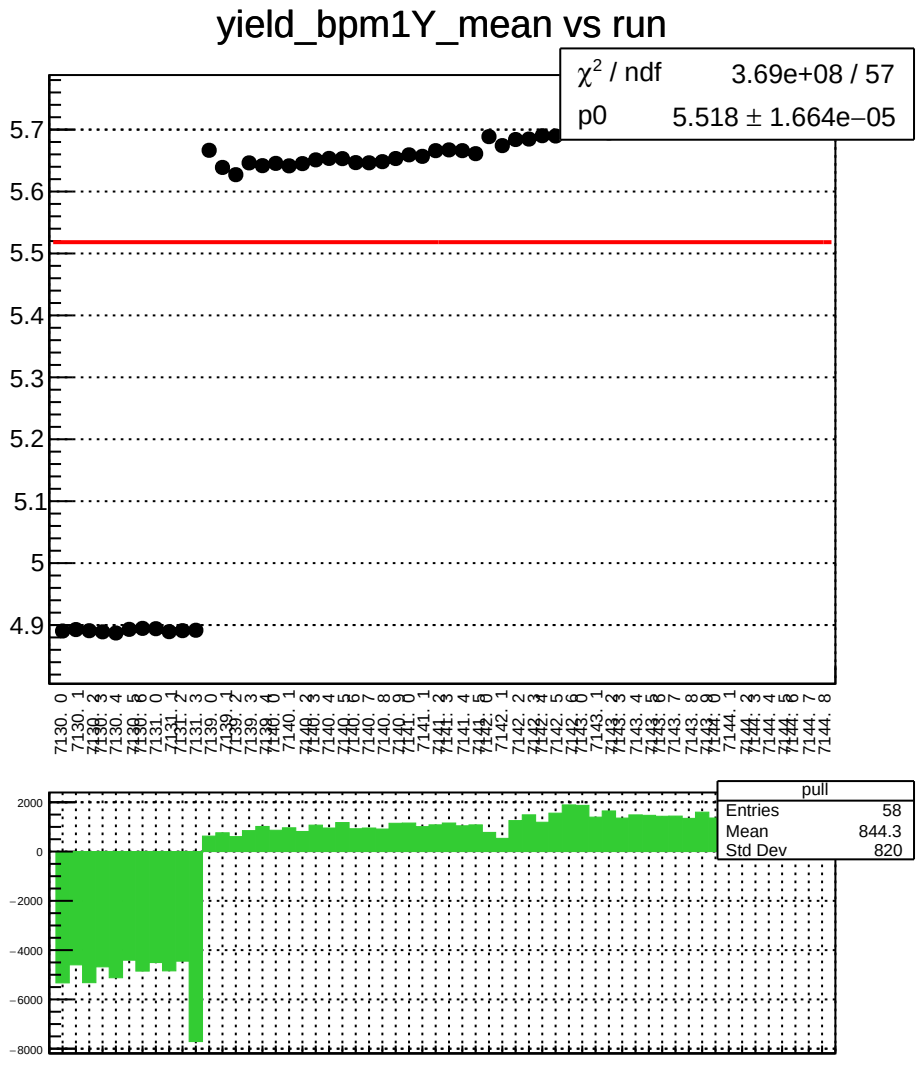

pull1D
Entries 58
Mean −0.7925
Std Dev 3.681

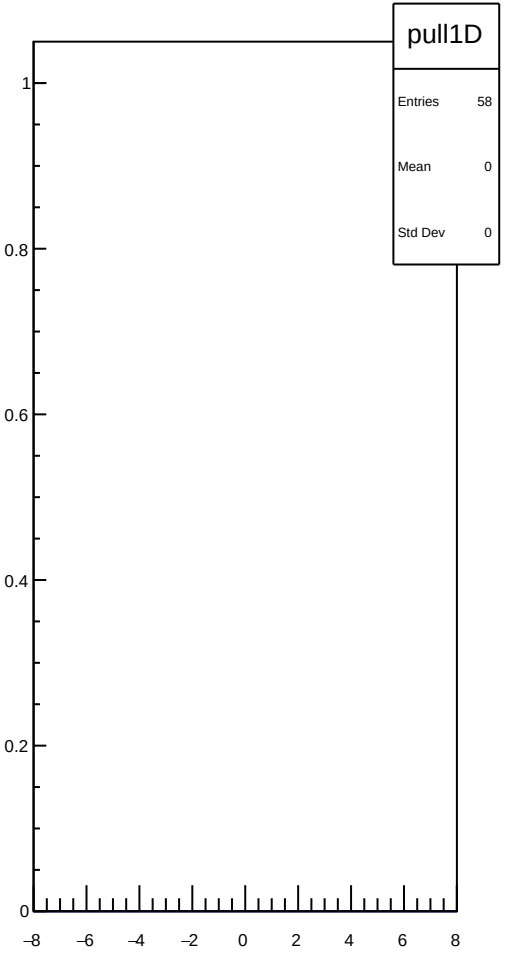

yield_bpm4ecY_rms vs run
χ² / ndf 1.281e+05 / 57
p0 0.01041 ± 1.052e–05
0.6
0.5
0.4
0.3
0.2
0.1

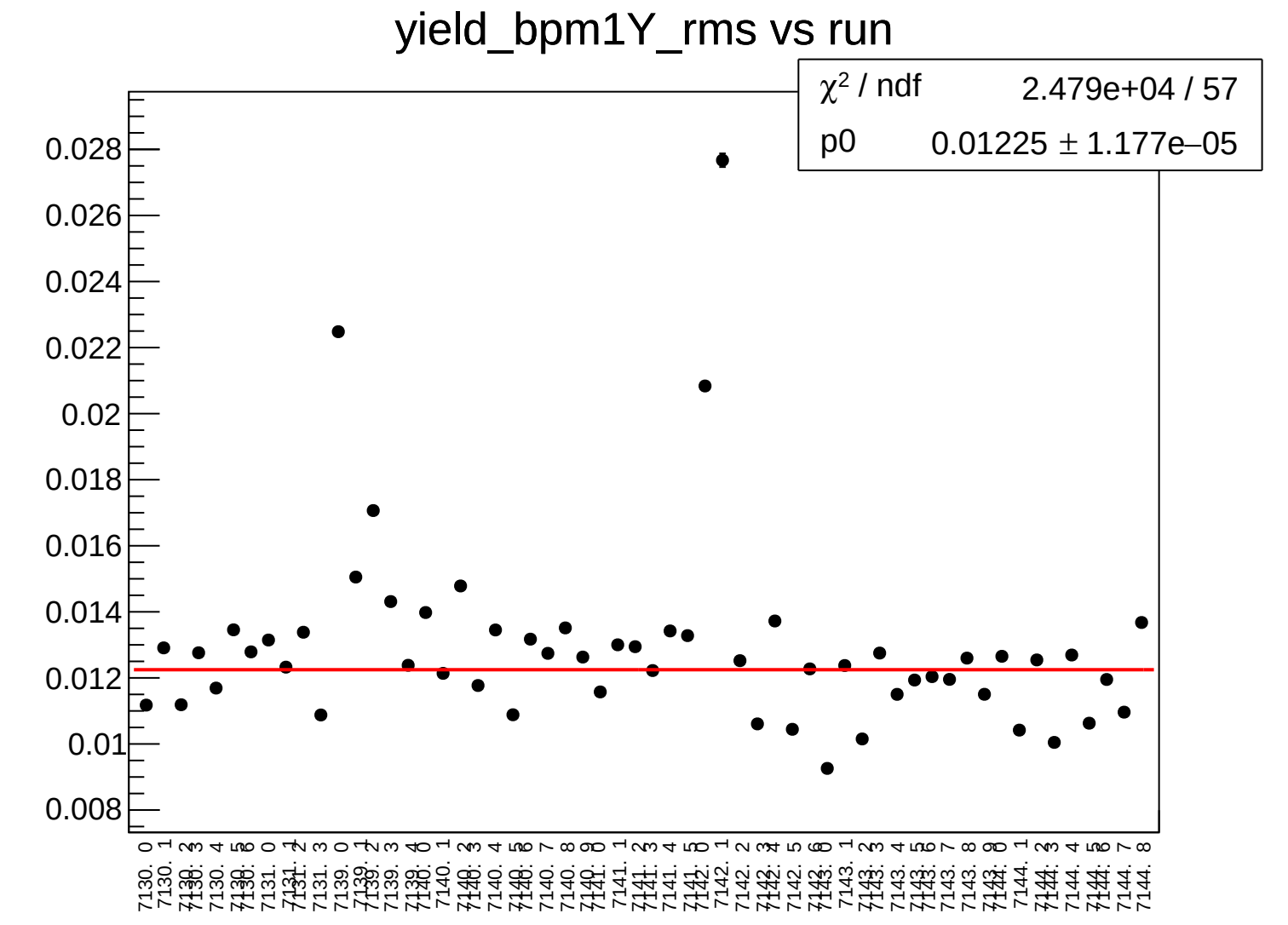

yield_bpm1X_mean vs run
χ² / ndf 2.562e+06 / 57
p0 2.477 ± 2.42e−05
2.58
2.56
2.54
2.52
2.5
2.48
2.46
2.44
2.42
2.4
pull
Entries 58
Mean 467.7
Std Dev 444.3
500
400
300
200
100
0
−100
−200

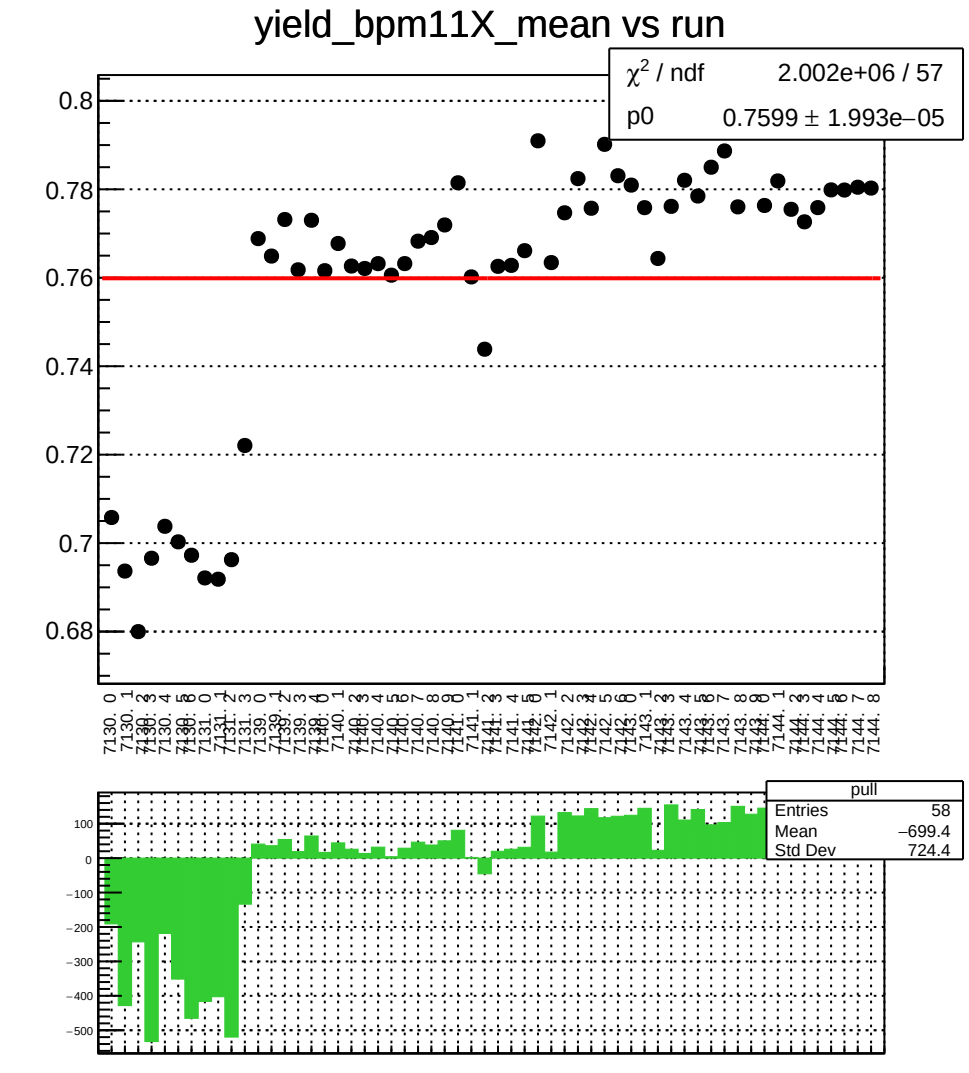

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

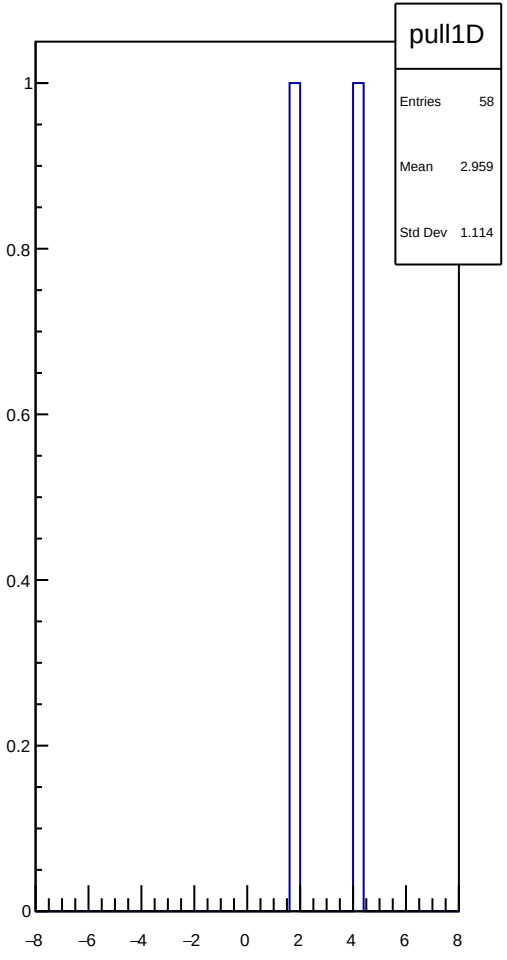

yield_bpm1X_rms vs run
χ² / ndf 1.443e+05 / 57
p0 0.0168 ± 1.711e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

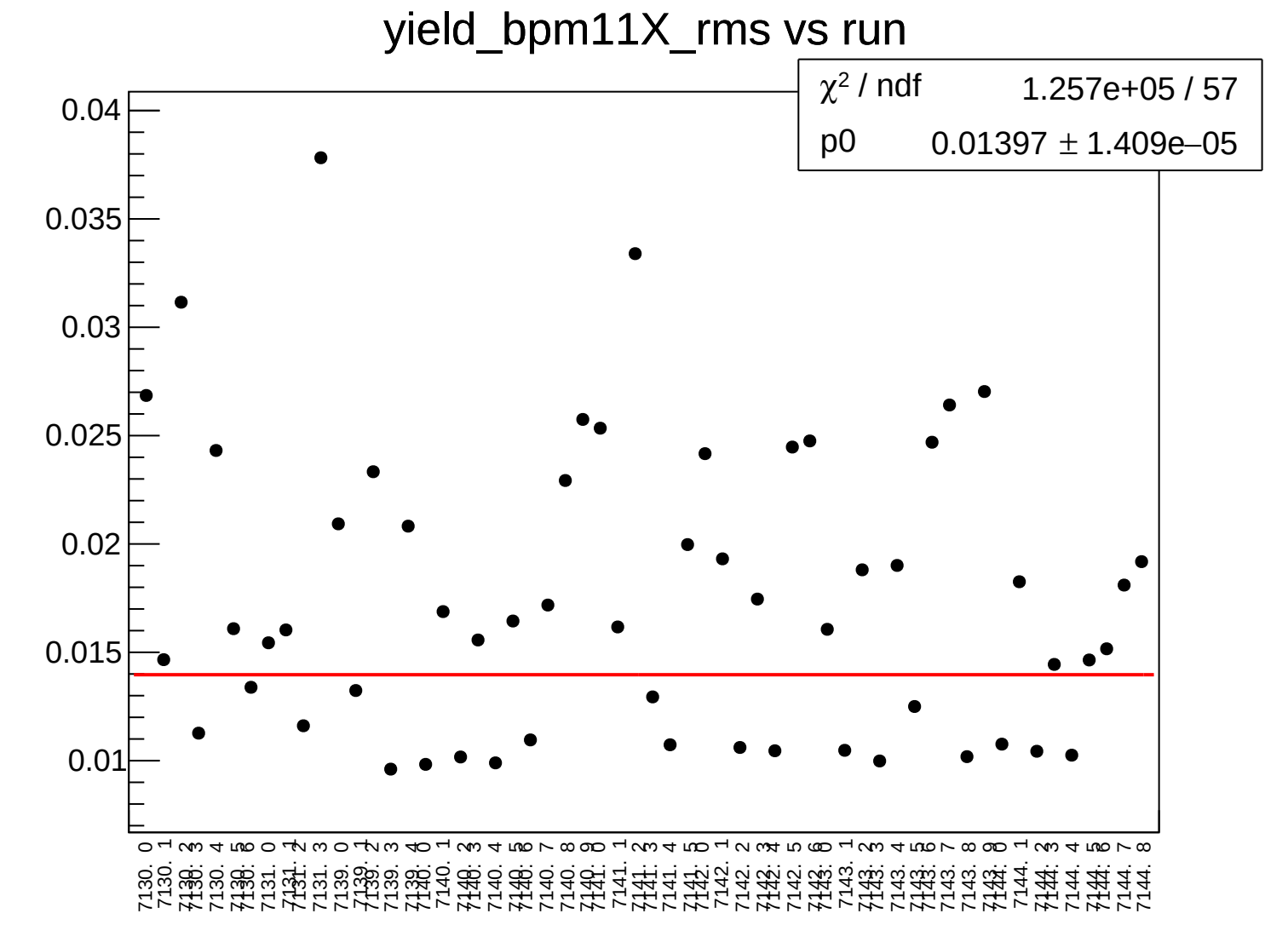

yield_bpm1Y_mean vs run
χ² / ndf 3.69e+08 / 57
p0 5.518 ± 1.664e−05
pull
Entries 58
Mean 844.3
Std Dev 820

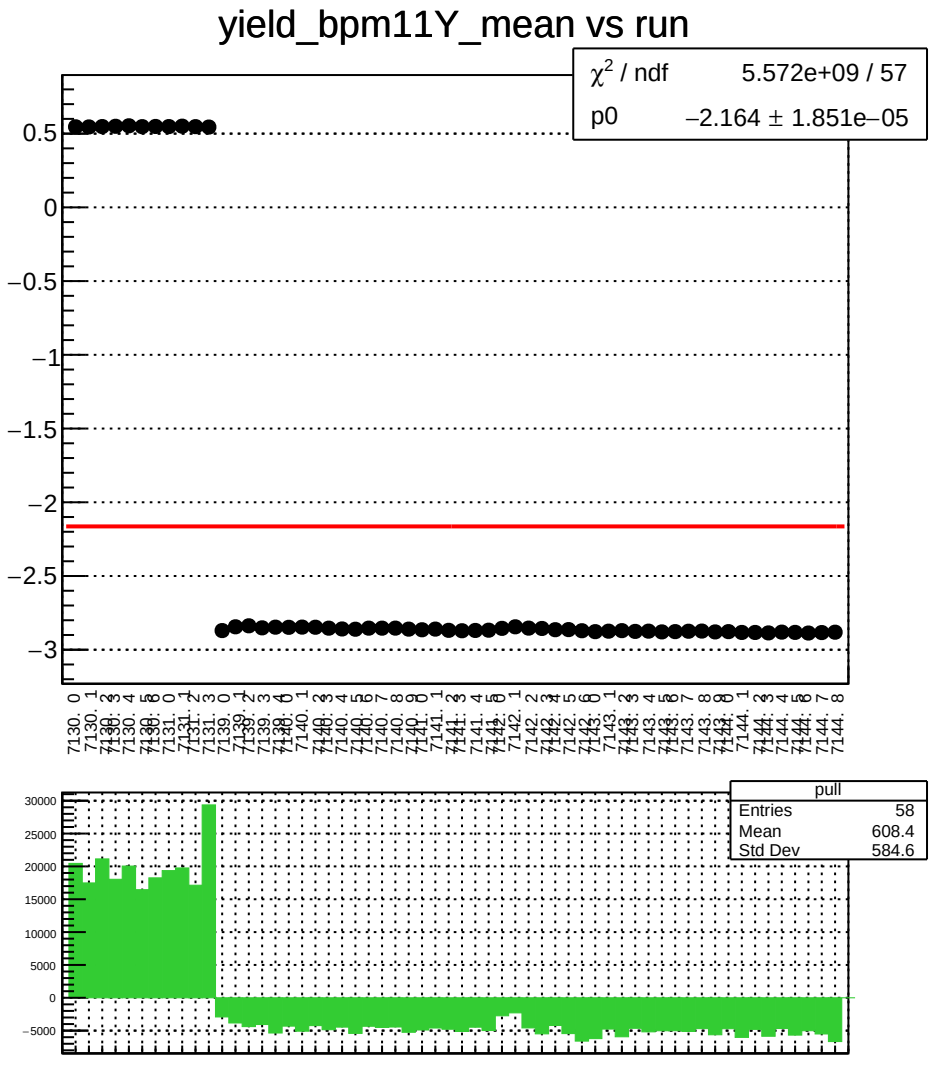

pull1D
Entries 58
Mean 0
Std Dev 0

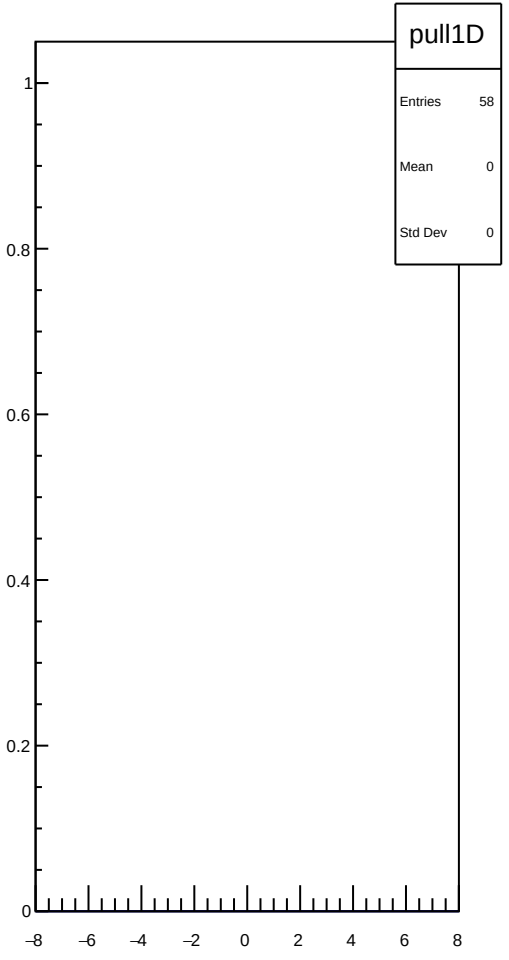

yield_bpm1Y_rms vs run
χ² / ndf 2.479e+04 / 57
p0 0.01225 ± 1.177e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

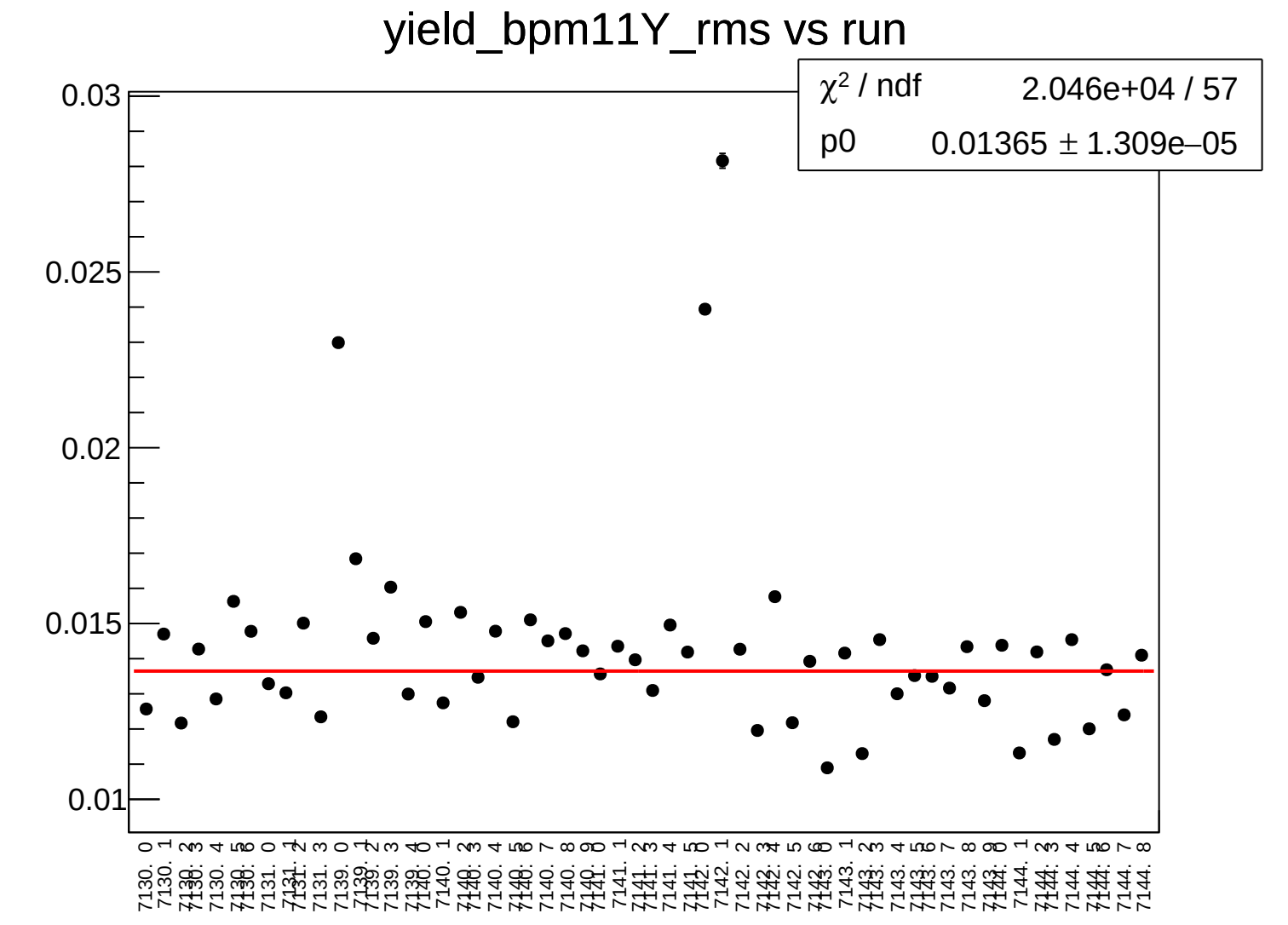

yield_bpm11X_mean vs run
χ² / ndf 2.002e+06 / 57
p0 0.7599 ± 1.993e−05
pull
Entries 58
Mean −699.4
Std Dev 724.4

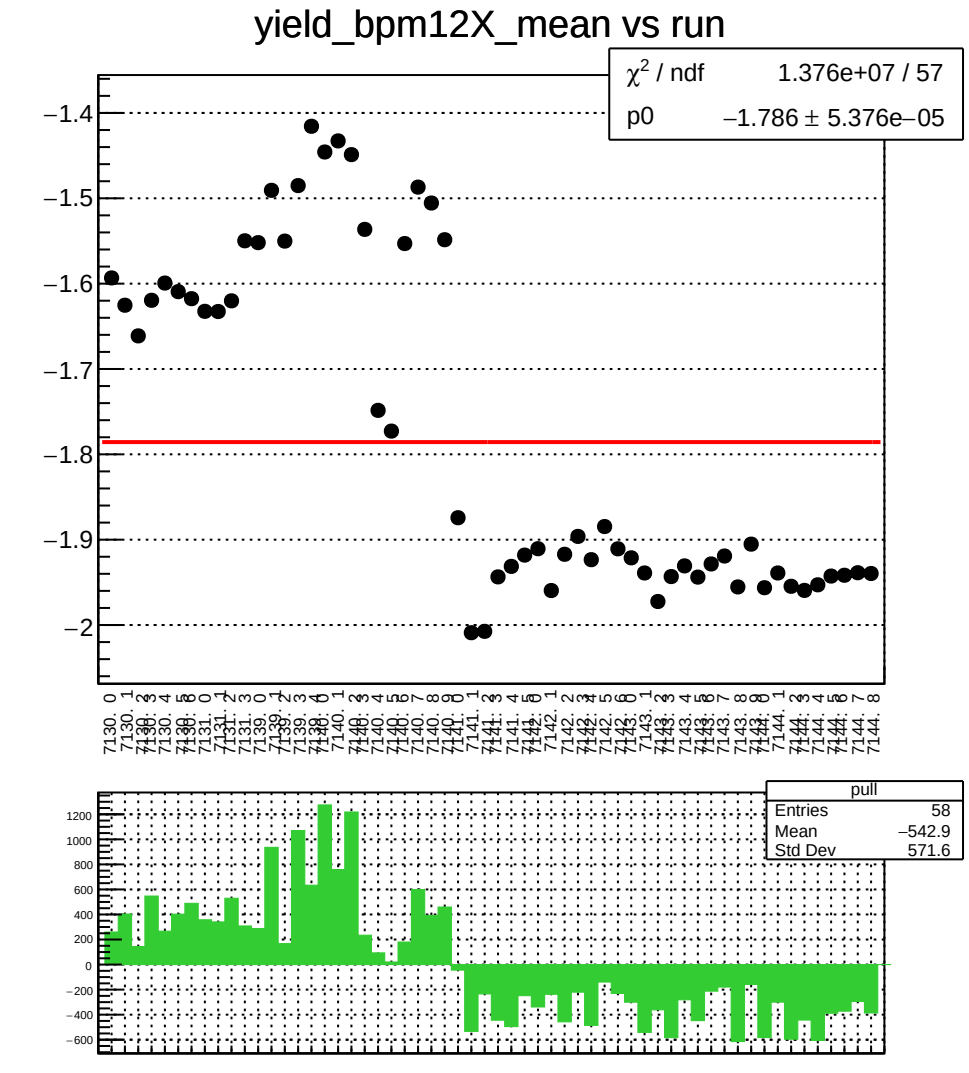

pull1D
Entries 58
Mean 2.959
Std Dev 1.114

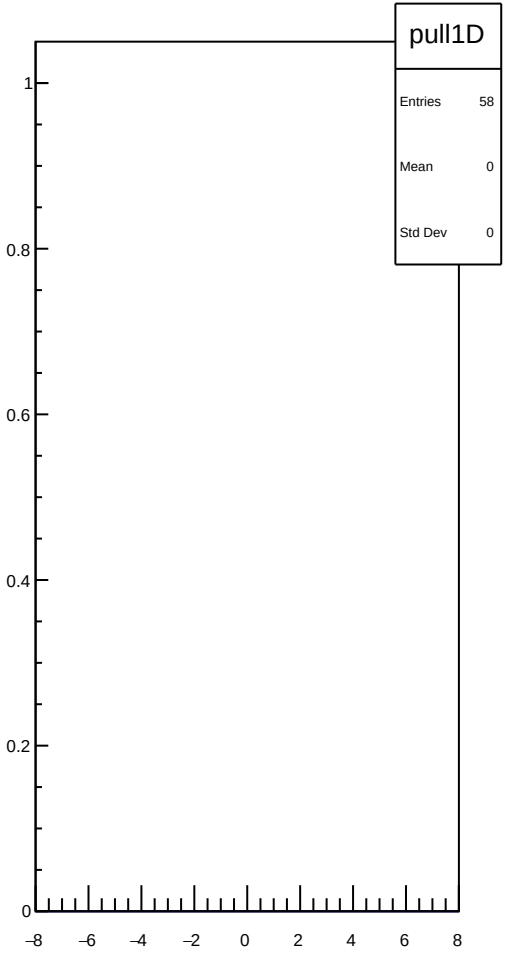

yield_bpm11X_rms vs run
χ² / ndf 1.257e+05 / 57
p0 0.01397 ± 1.409e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

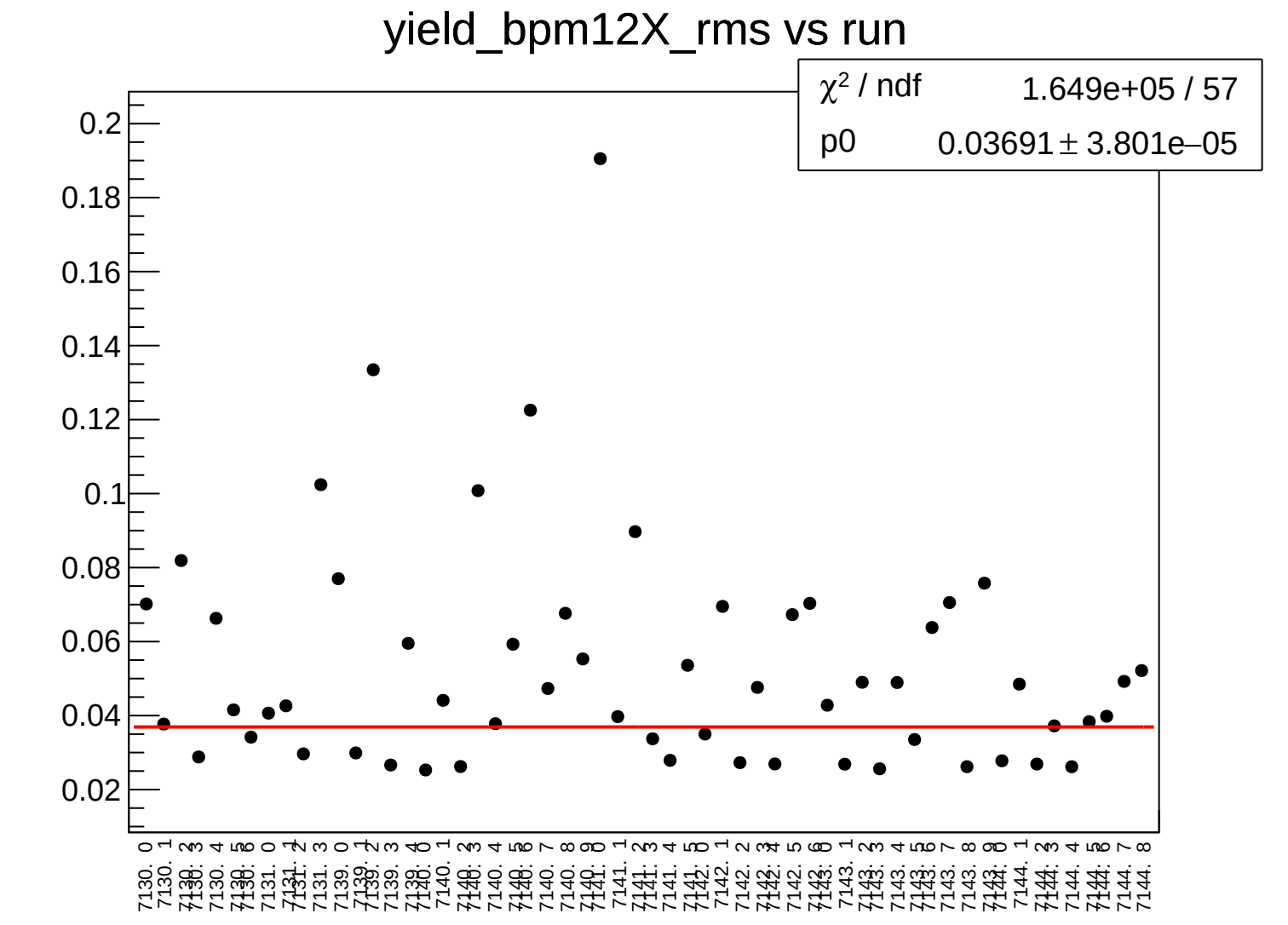

yield_bpm11Y_mean vs run
χ² / ndf 5.572e+09 / 57
p0 −2.164 ± 1.851e−05
pull
Entries 58
Mean 608.4
Std Dev 584.6

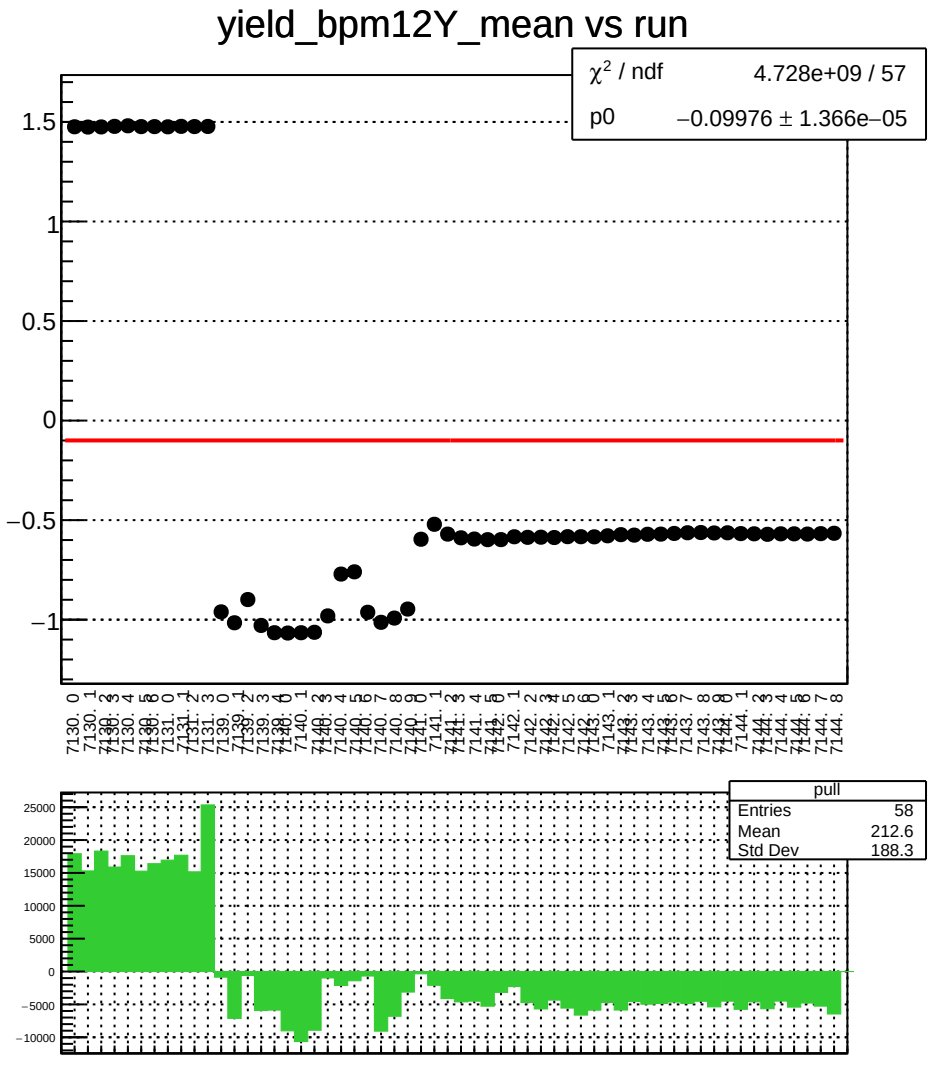

pull1D
Entries 58
Mean 0
Std Dev 0

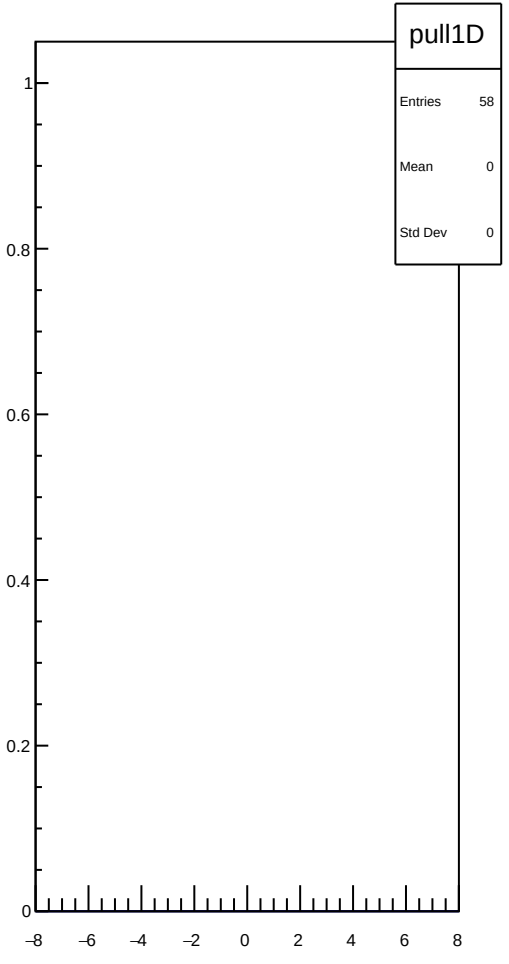

yield_bpm11Y_rms vs run
χ² / ndf 2.046e+04 / 57
p0 0.01365 ± 1.309e–05
0.03
0.025
0.02
0.015
0.01

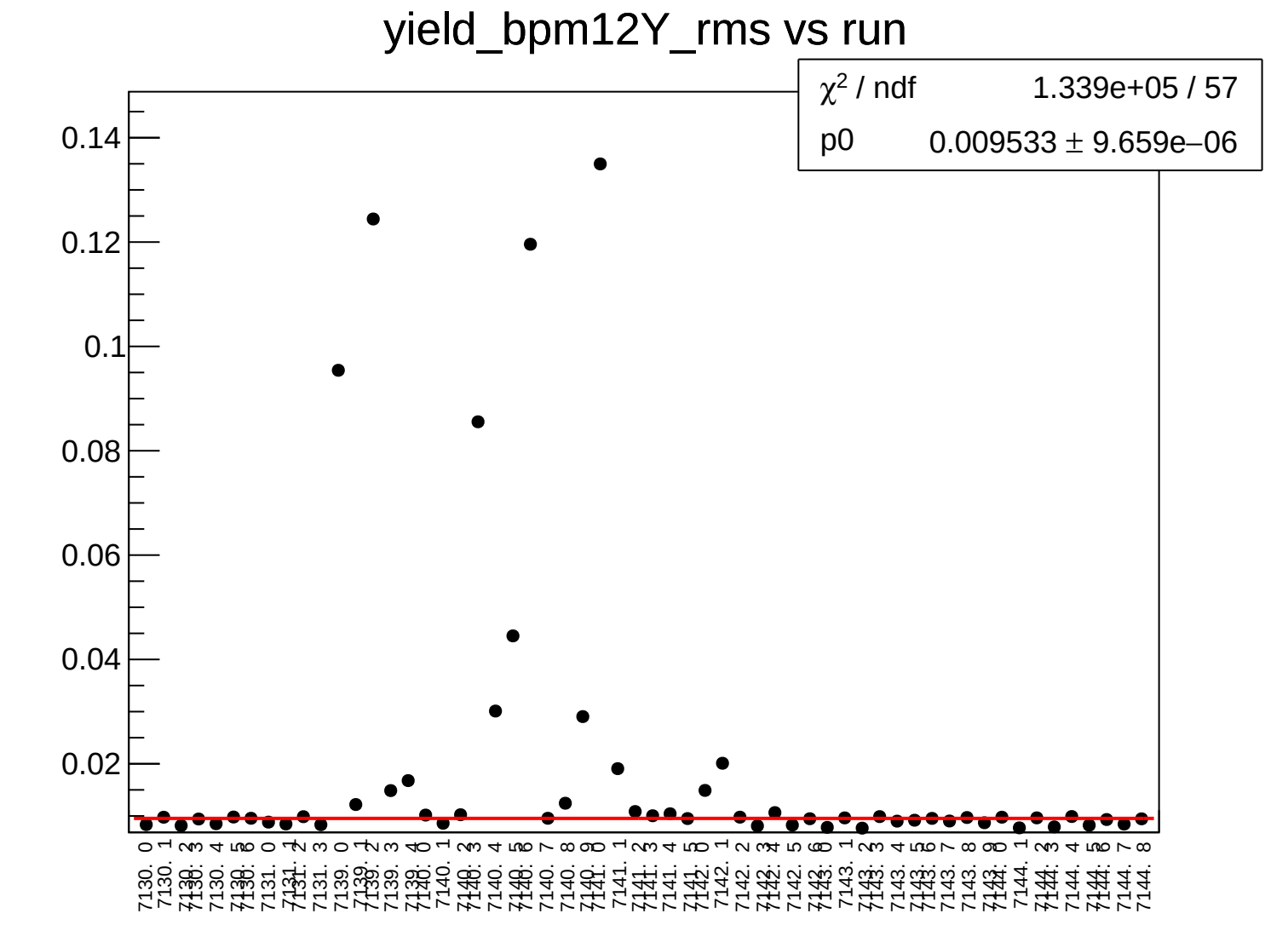

yield_bpm12X_mean vs run
χ² / ndf 1.376e+07 / 57
p0 −1.786 ± 5.376e−05
pull
Entries 58
Mean −542.9
Std Dev 571.6

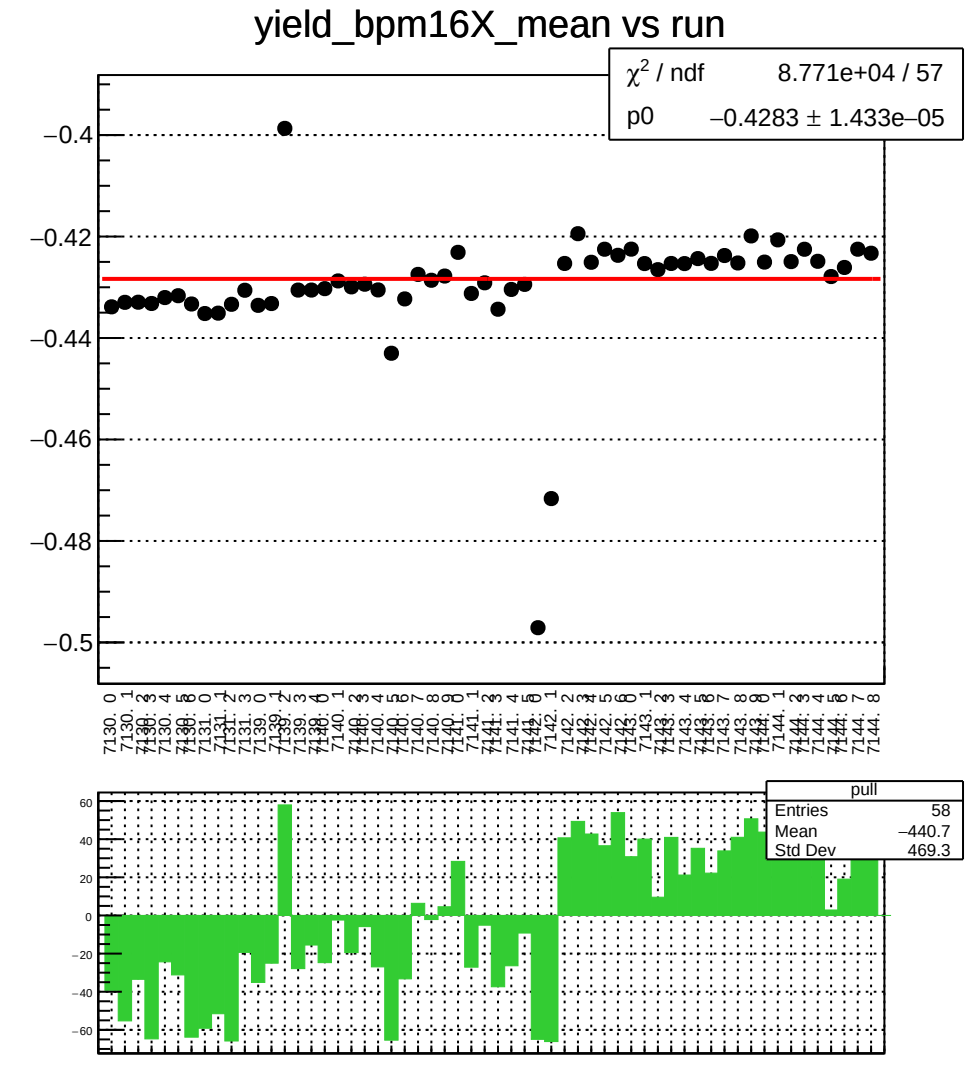

pull1D
Entries 58
Mean 0
Std Dev 0

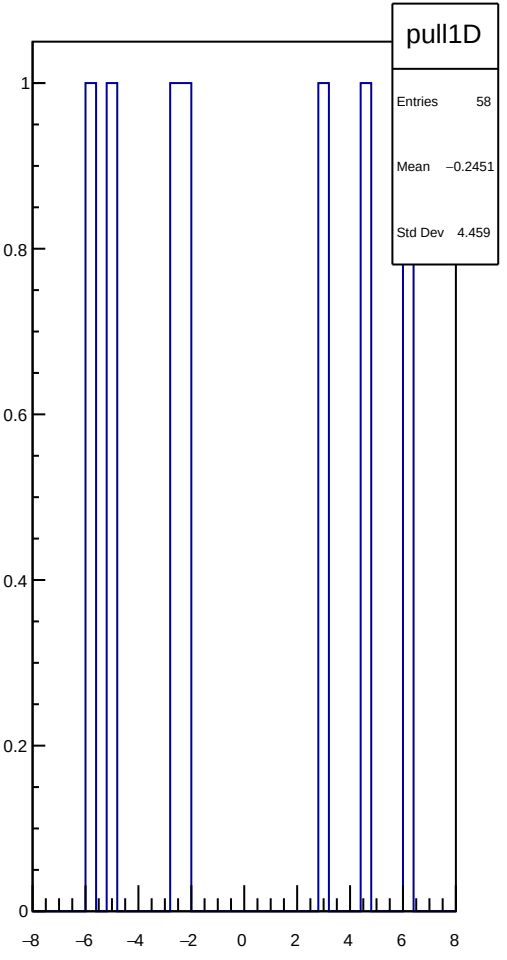

yield_bpm12X_rms vs run
χ² / ndf 1.649e+05 / 57
p0 0.03691 ± 3.801e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

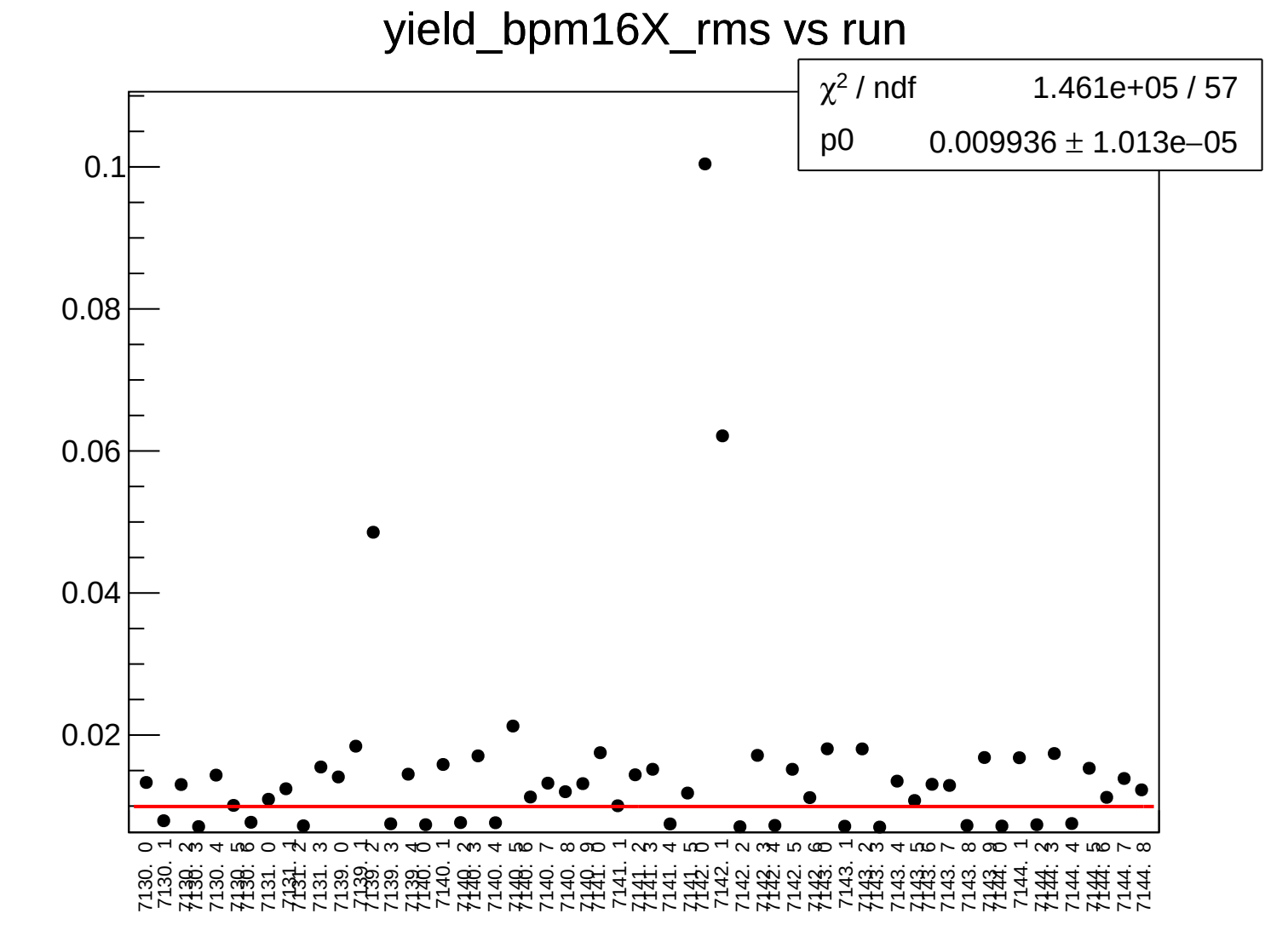

yield_bpm12Y_mean vs run
χ² / ndf 4.728e+09 / 57
p0 −0.09976 ± 1.366e−05
pull
Entries 58
Mean 212.6
Std Dev 188.3

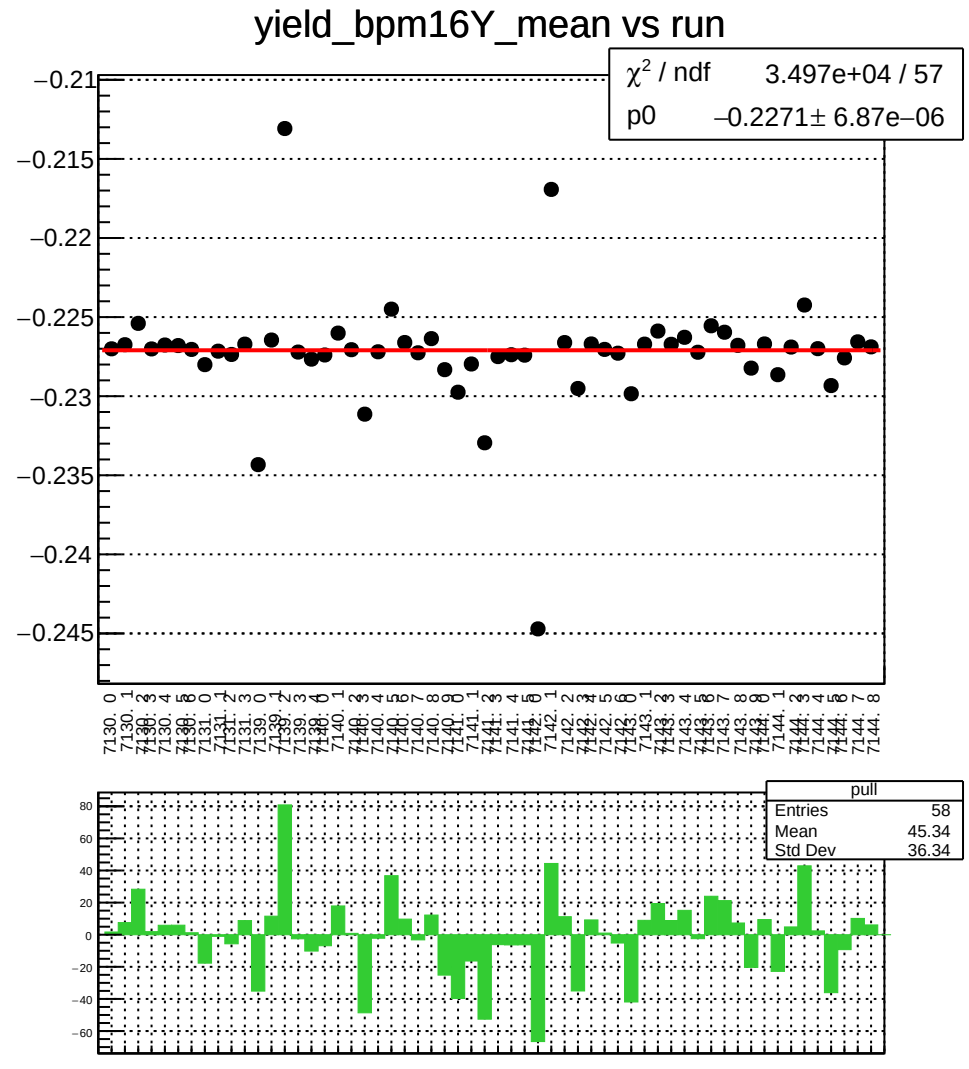

pull1D
Entries 58
Mean 0
Std Dev 0

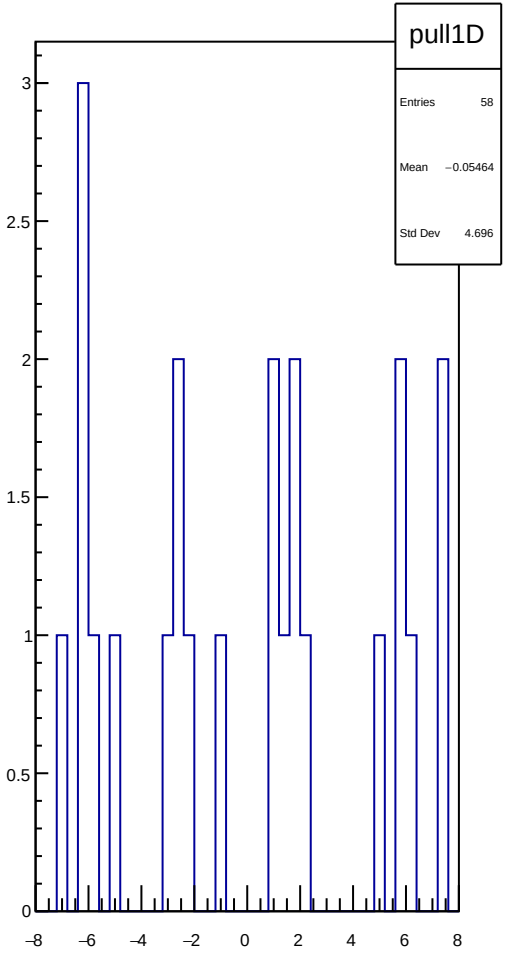

yield_bpm12Y_rms vs run
χ² / ndf 1.339e+05 / 57
p0 0.009533 ± 9.659e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

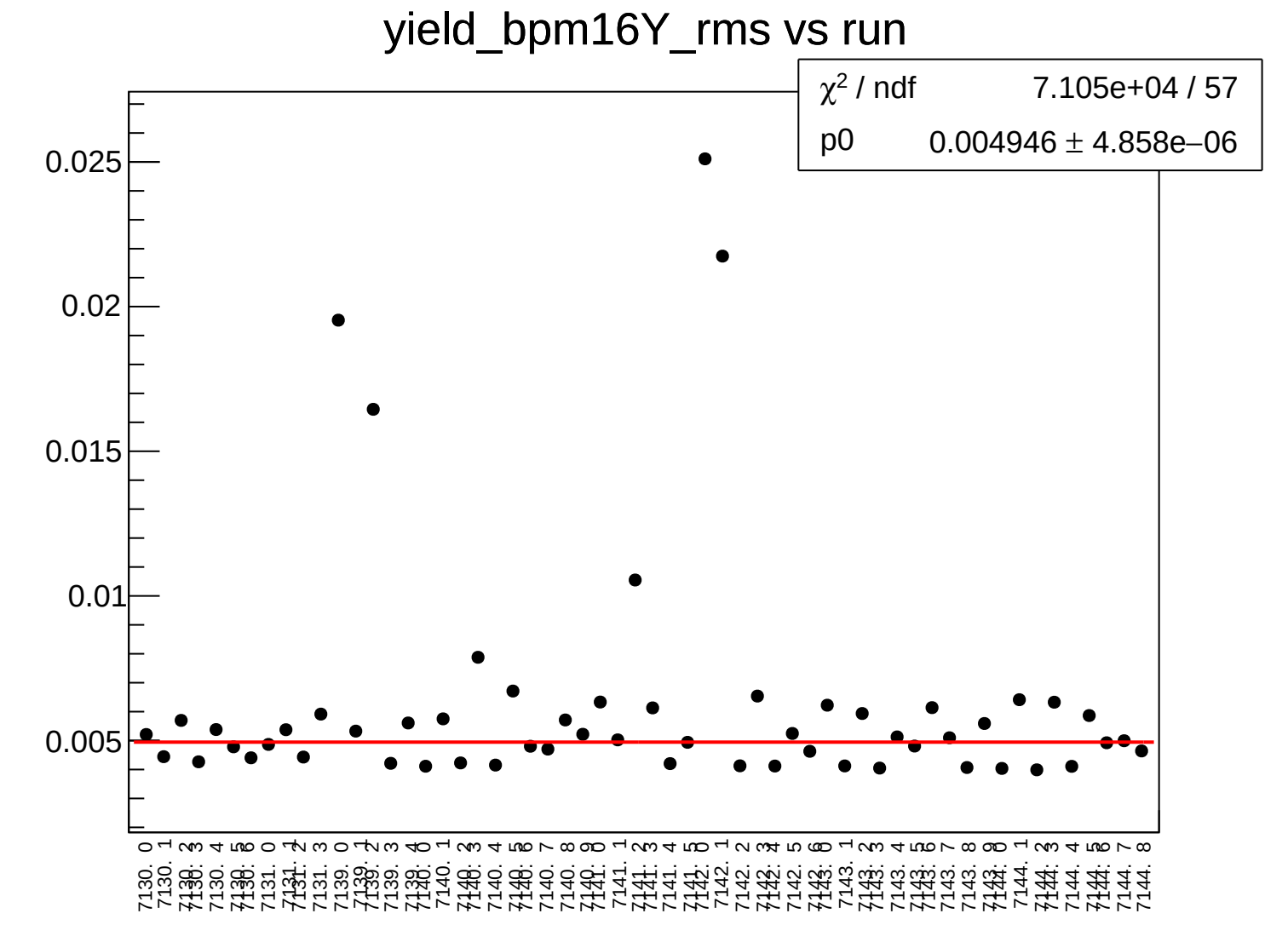

yield_bpm16X_mean vs run
χ² / ndf 8.771e+04 / 57
p0 −0.4283 ± 1.433e−05
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
pull
Entries 58
Mean −440.7
Std Dev 469.3
60
40
20
0
−20
−40
−60

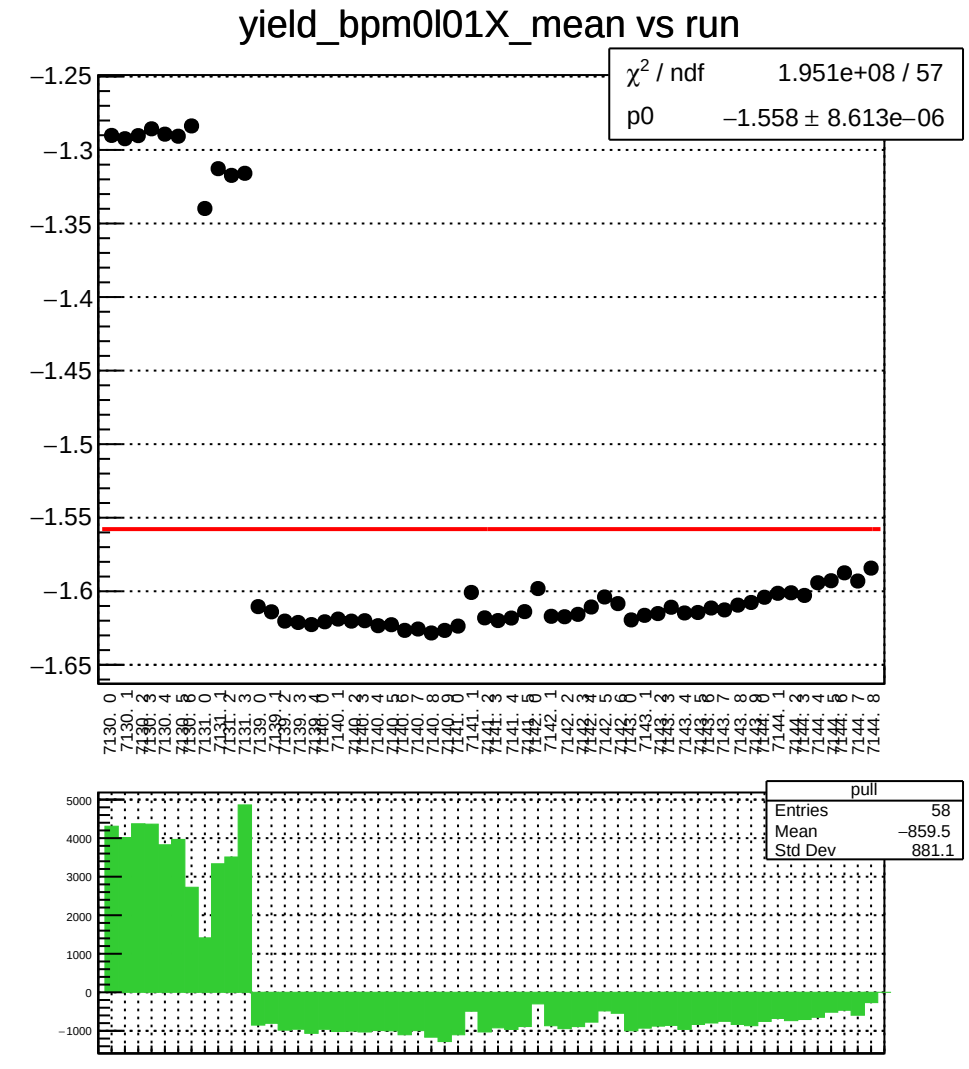

pull1D
Entries 58
Mean −0.2451
Std Dev 4.459
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

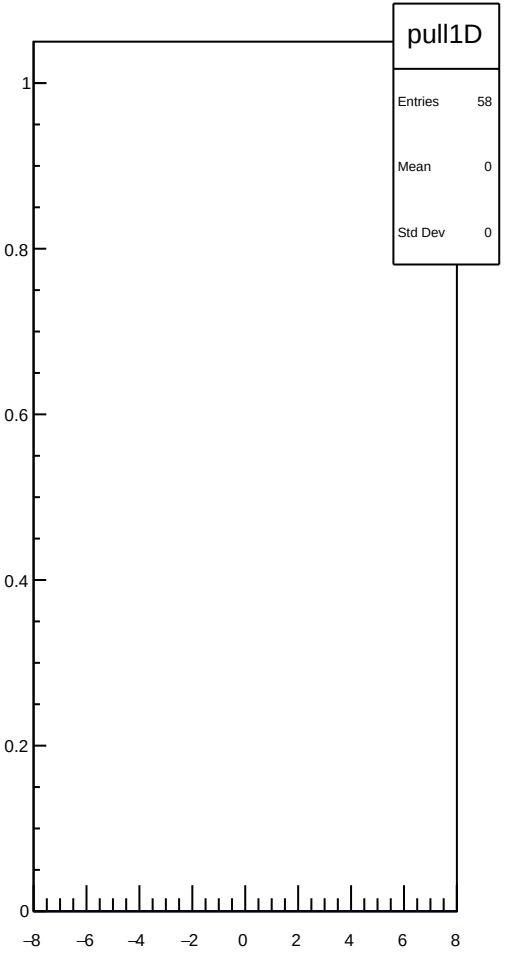

yield_bpm16X_rms vs run
χ^2 / ndf 1.461e+05 / 57
p0 0.009936 ± 1.013e−05
0.1
0.08
0.06
0.04
0.02

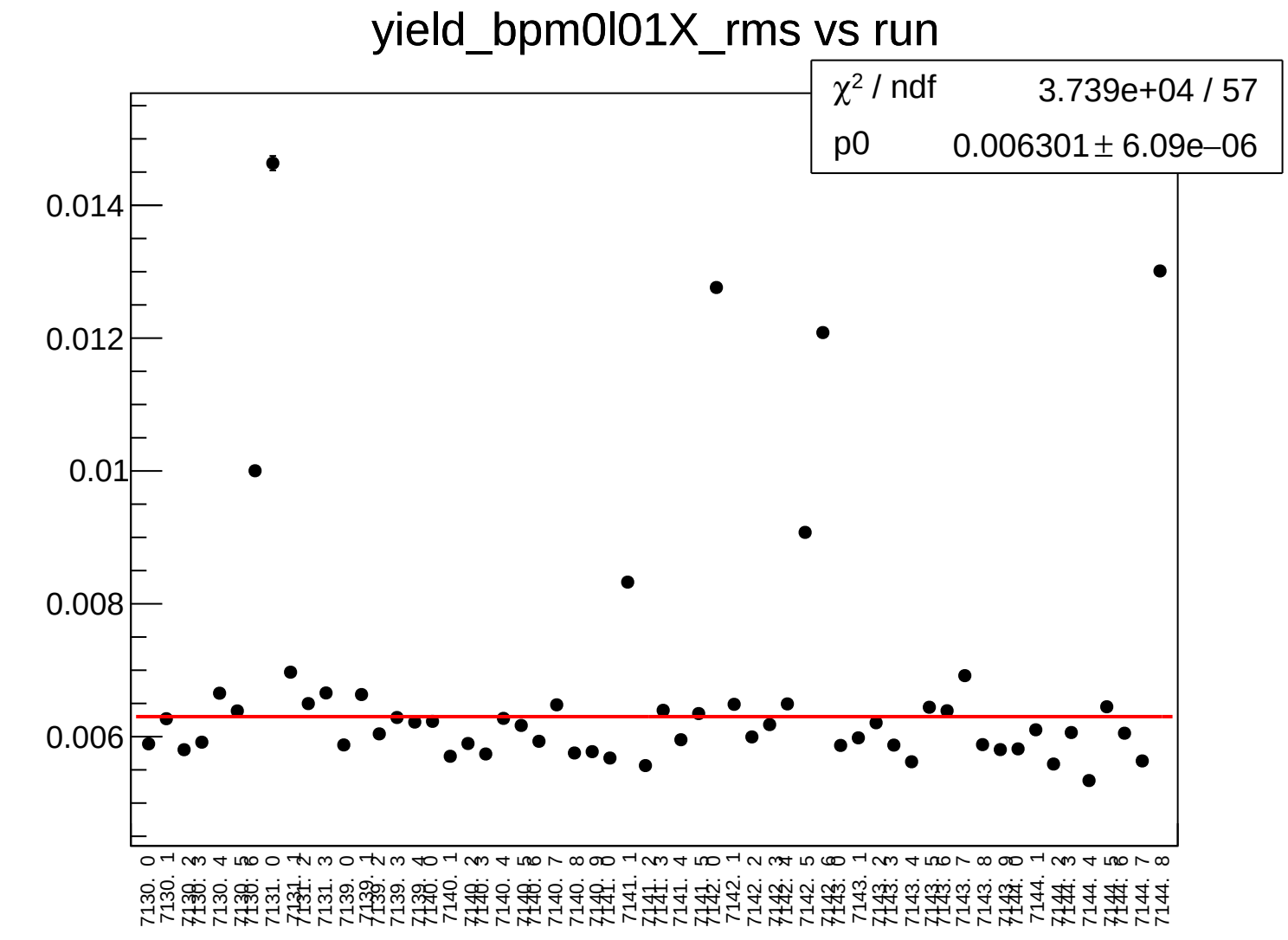

yield_bpm16Y_mean vs run
χ² / ndf 3.497e+04 / 57
p0 −0.2271± 6.87e−06
−0.21
−0.215
−0.22
−0.225
−0.23
−0.235
−0.24
−0.245
pull
Entries 58
Mean 45.34
Std Dev 36.34
80
60
40
20
0
−20
−40
−60

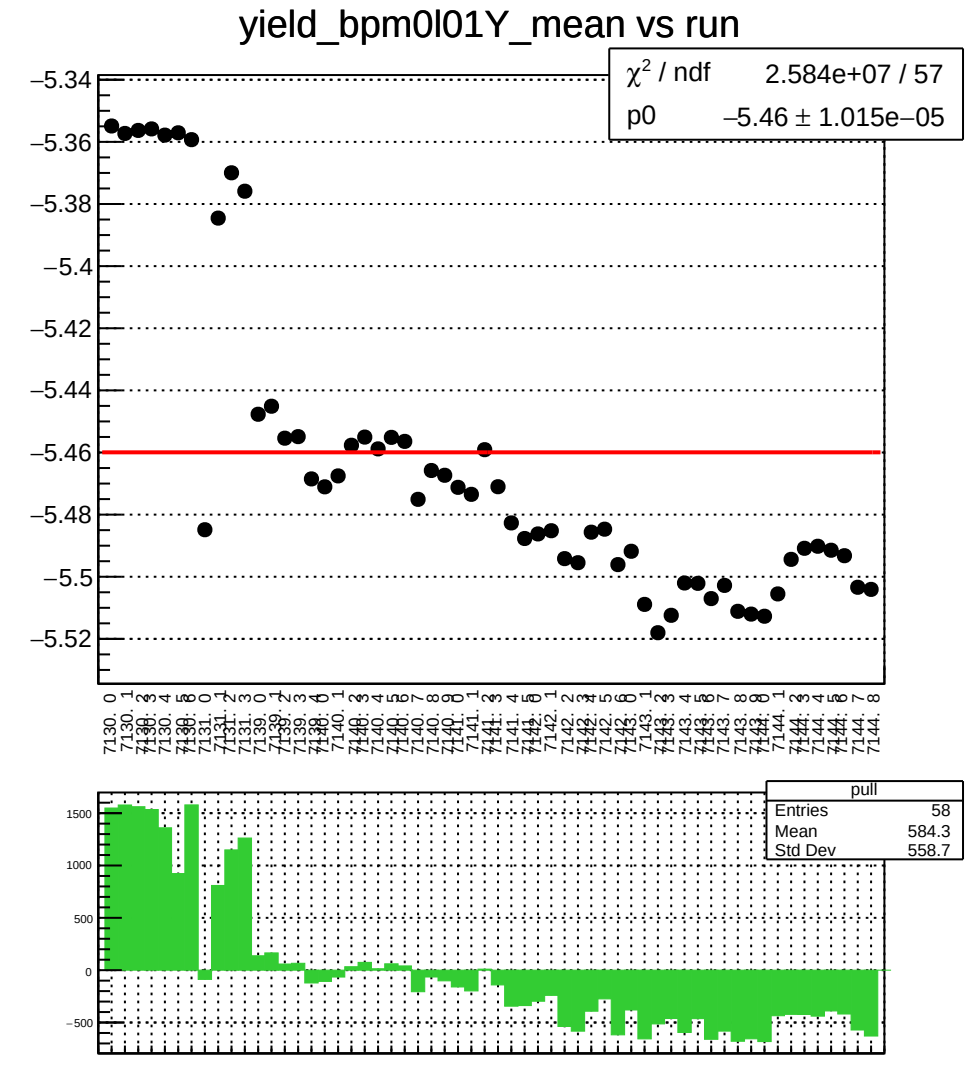

pull1D
Entries 58
Mean −0.05464
Std Dev 4.696
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

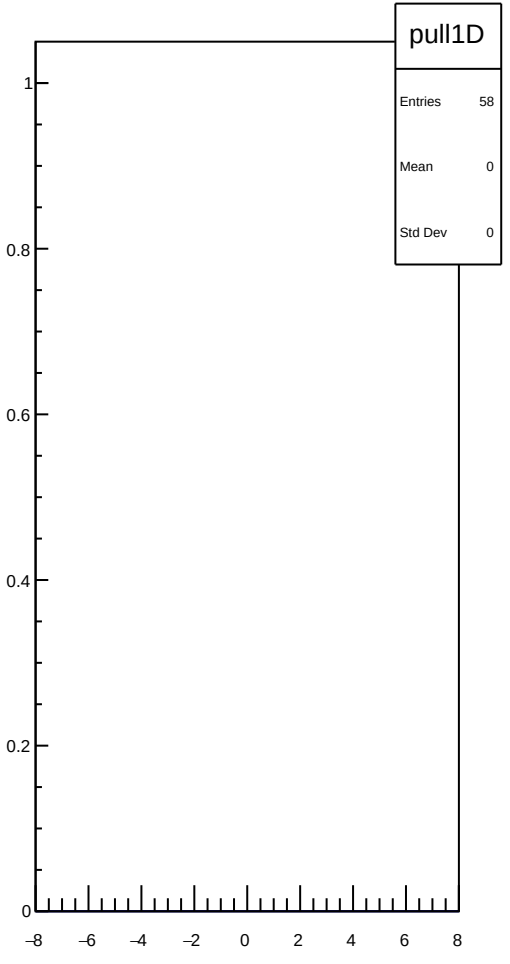

yield_bpm16Y_rms vs run
χ² / ndf 7.105e+04 / 57
p0 0.004946 ± 4.858e−06
0.025
0.02
0.015
0.01
0.005

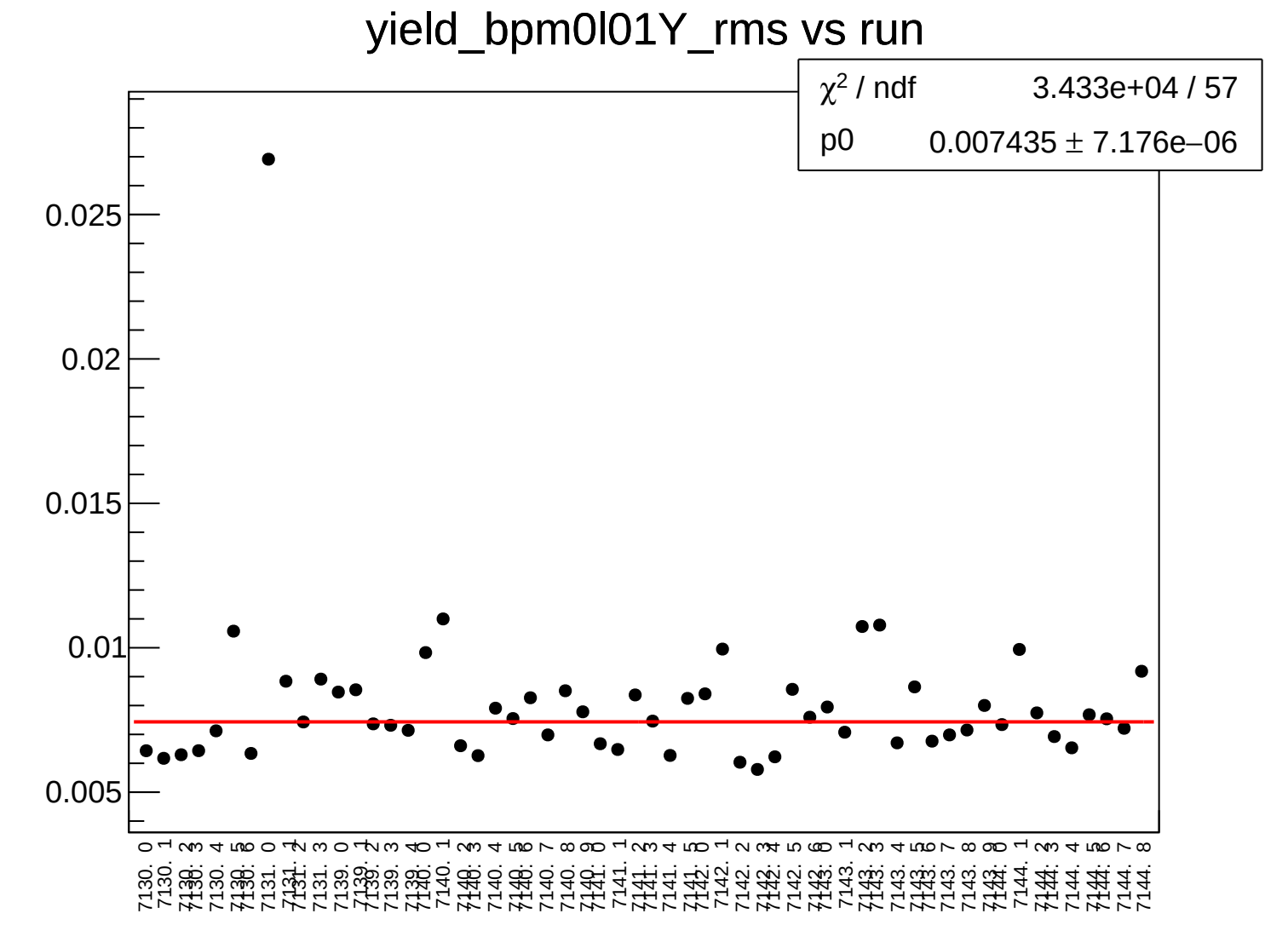

yield_bpm0l01X_mean vs run
χ² / ndf 1.951e+08 / 57
p0 −1.558 ± 8.613e−06
pull
Entries 58
Mean −859.5
Std Dev 881.1

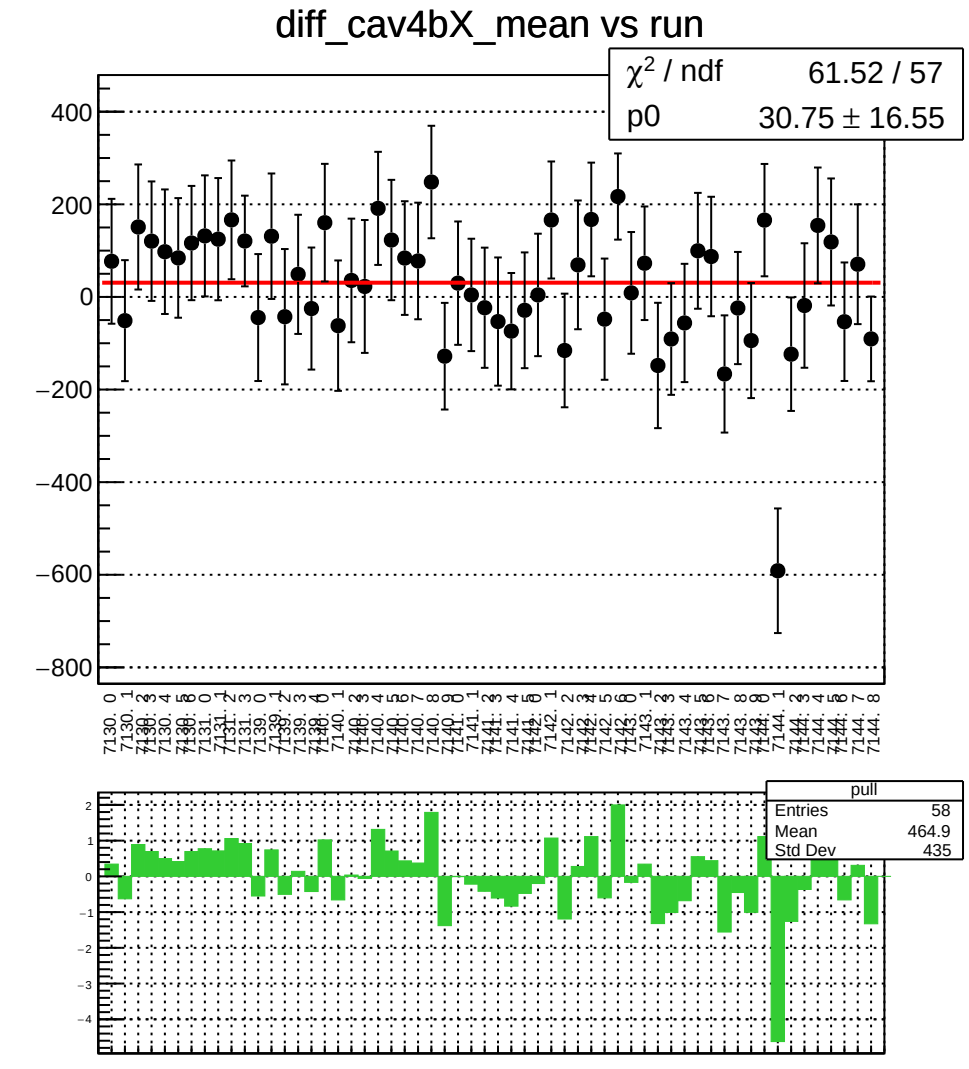

pull1D
Entries 58
Mean 0
Std Dev 0

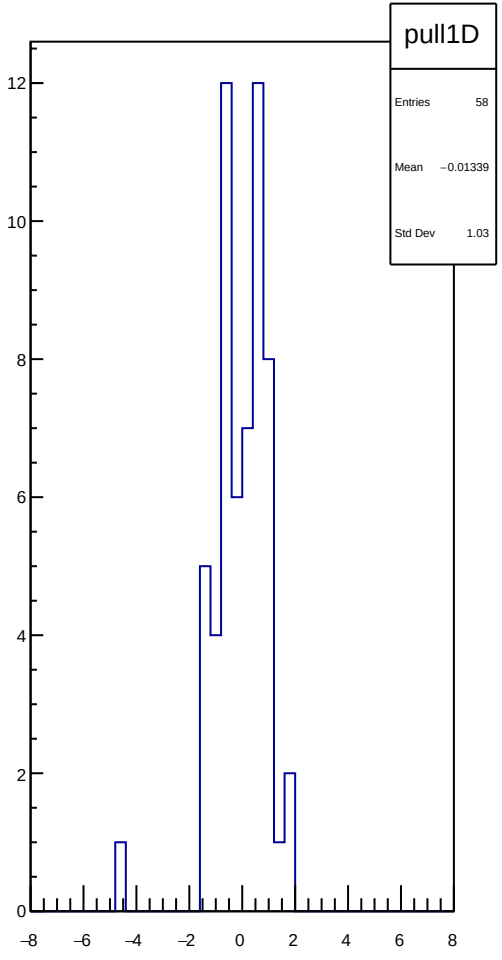

yield_bpm0l01X_rms vs run
χ² / ndf 3.739e+04 / 57
p0 0.006301 ± 6.09e–06
0.014
0.012
0.01
0.008
0.006

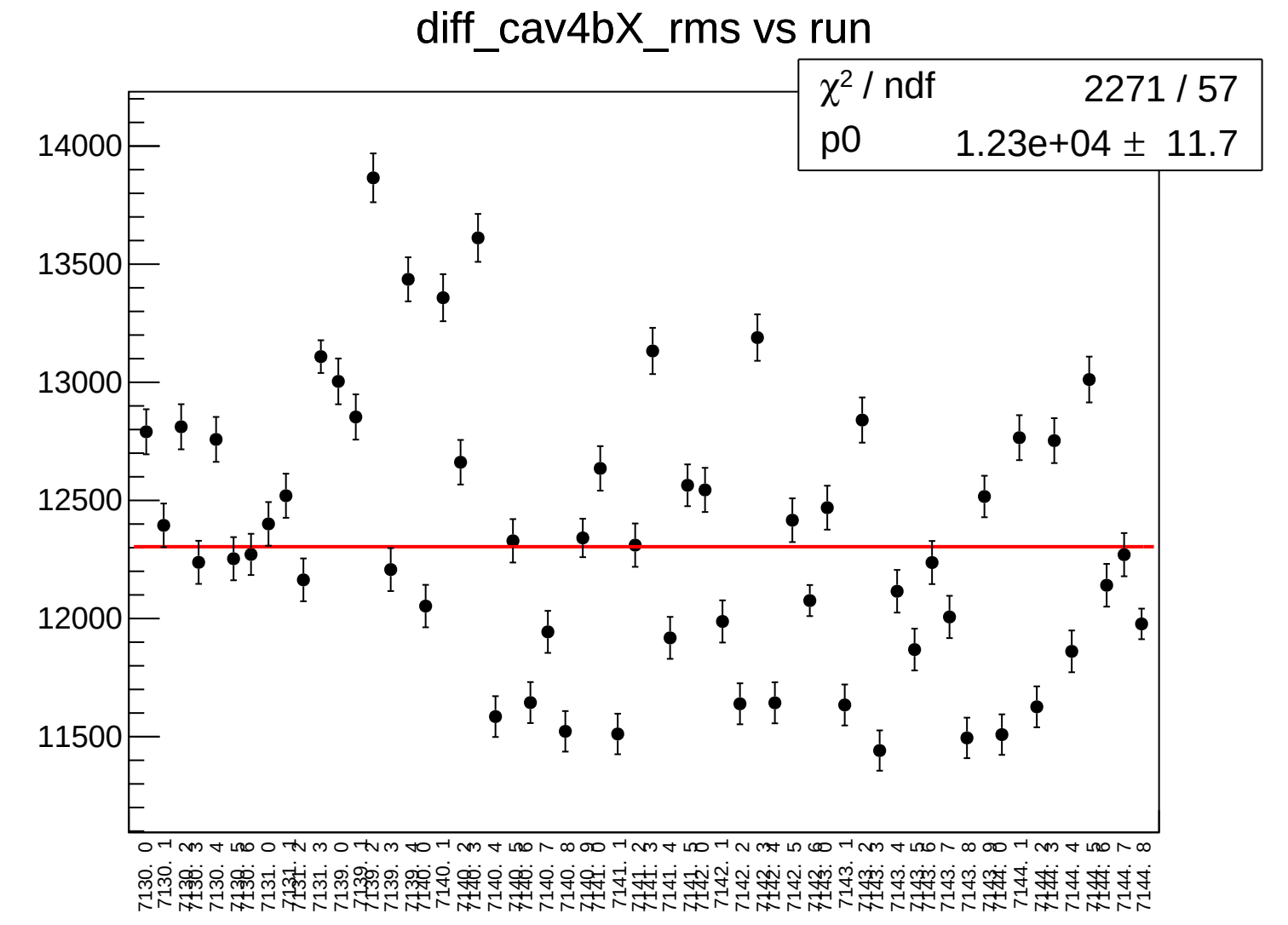

yield_bpm0l01Y_mean vs run
χ² / ndf 2.584e+07 / 57
p0 −5.46 ± 1.015e−05
−5.34
−5.36
−5.38
−5.4
−5.42
−5.44
−5.46
−5.48
−5.5
−5.52
pull
Entries 58
Mean 584.3
Std Dev 558.7
1500
1000
500
0
−500

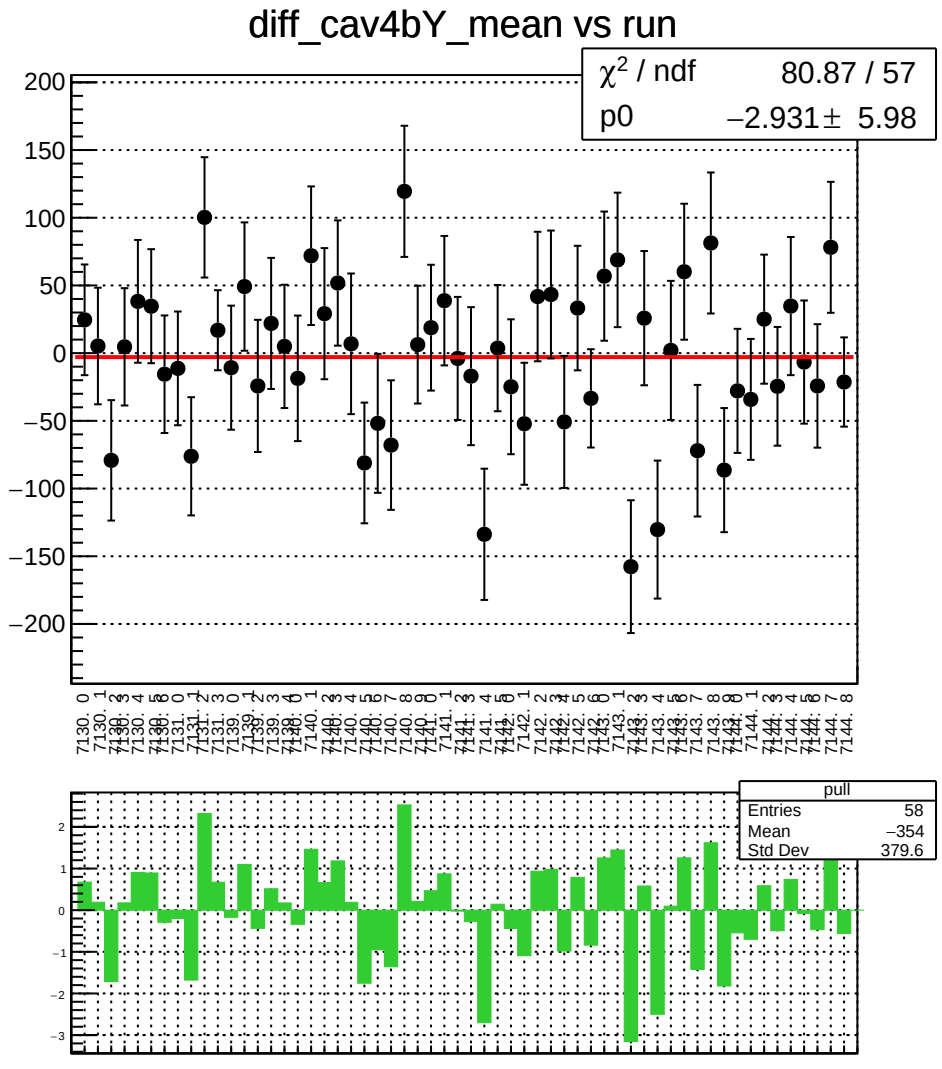

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

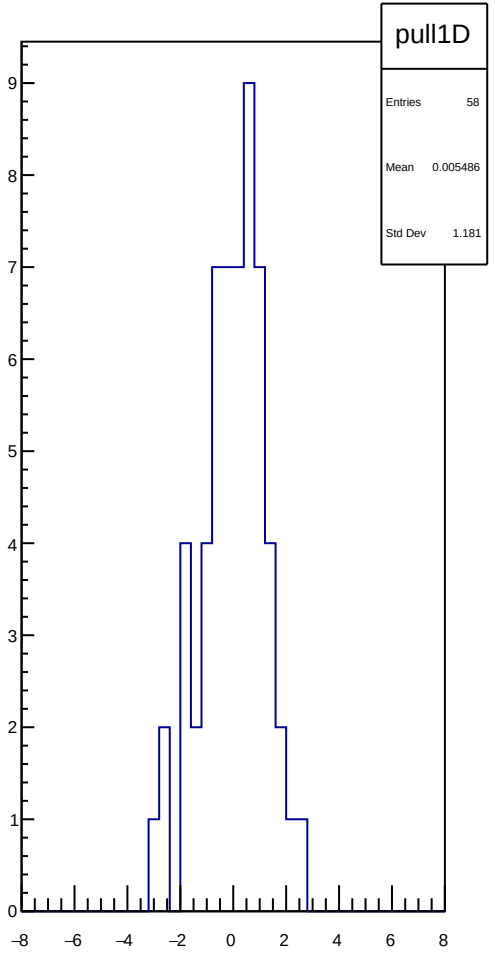

yield_bpm0l01Y_rms vs run
χ² / ndf 3.433e+04 / 57
p0 0.007435 ± 7.176e−06
0.025
0.02
0.015
0.01
0.005

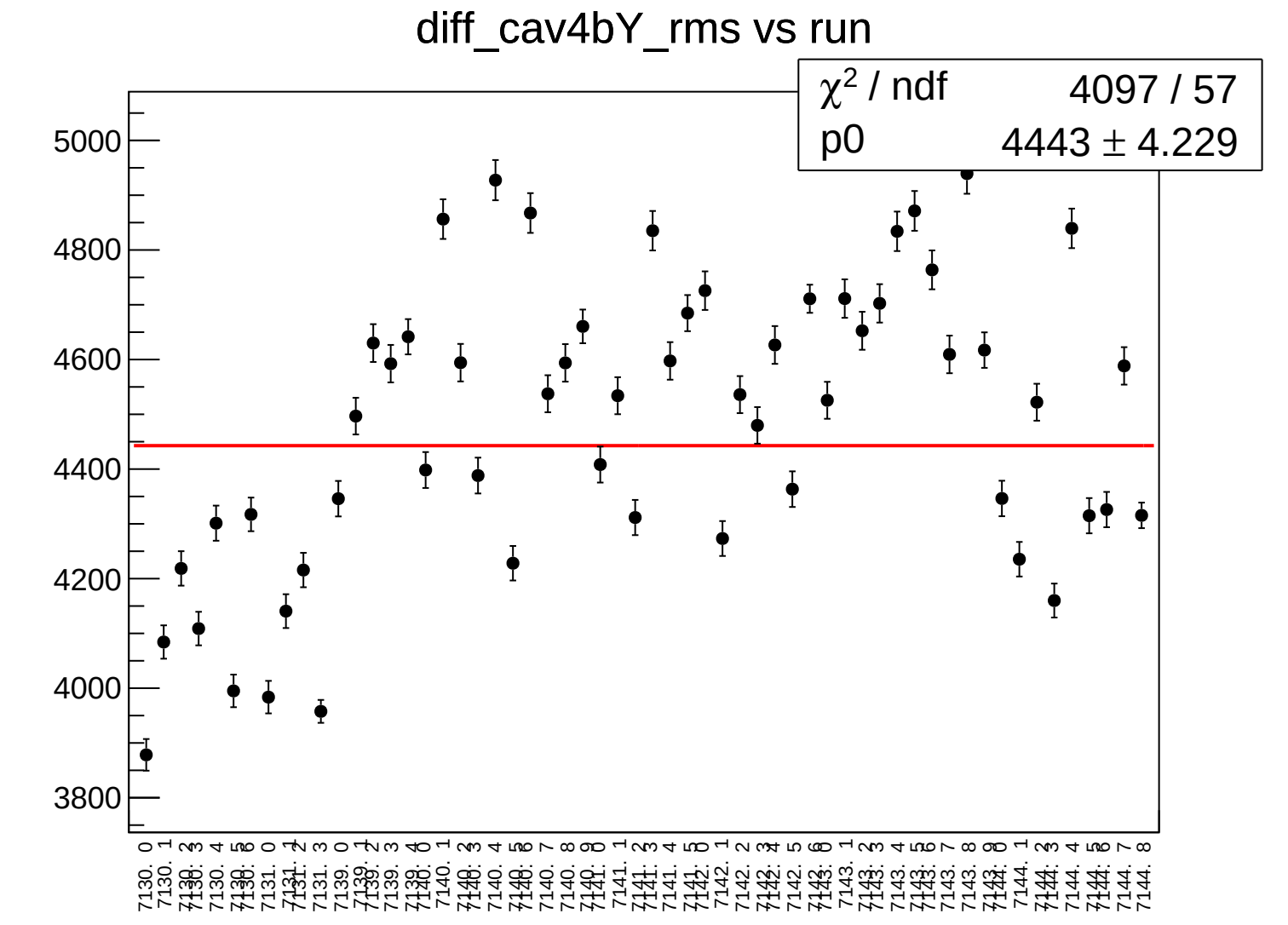

diff_cav4bX_mean vs run
χ² / ndf 61.52 / 57
p0 30.75 ± 16.55
pull
Entries 58
Mean 464.9
Std Dev 435

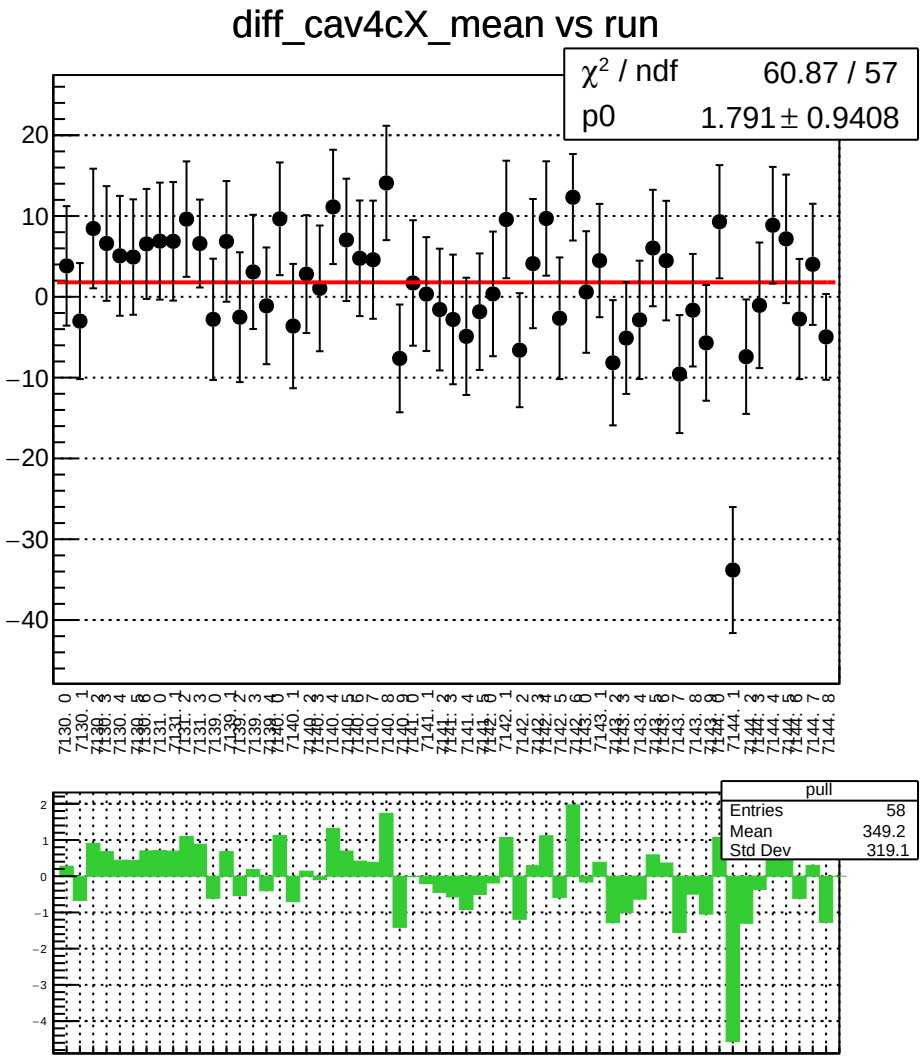

pull1D
Entries 58
Mean −0.01339
Std Dev 1.03

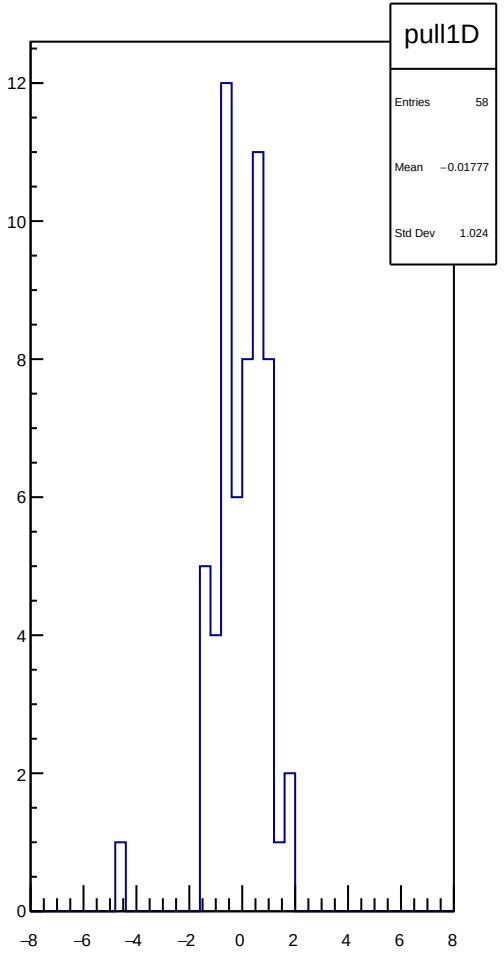

diff_cav4bX_rms vs run
χ² / ndf 2271 / 57
p0 1.23e+04 ± 11.7
14000
13500
13000
12500
12000
11500

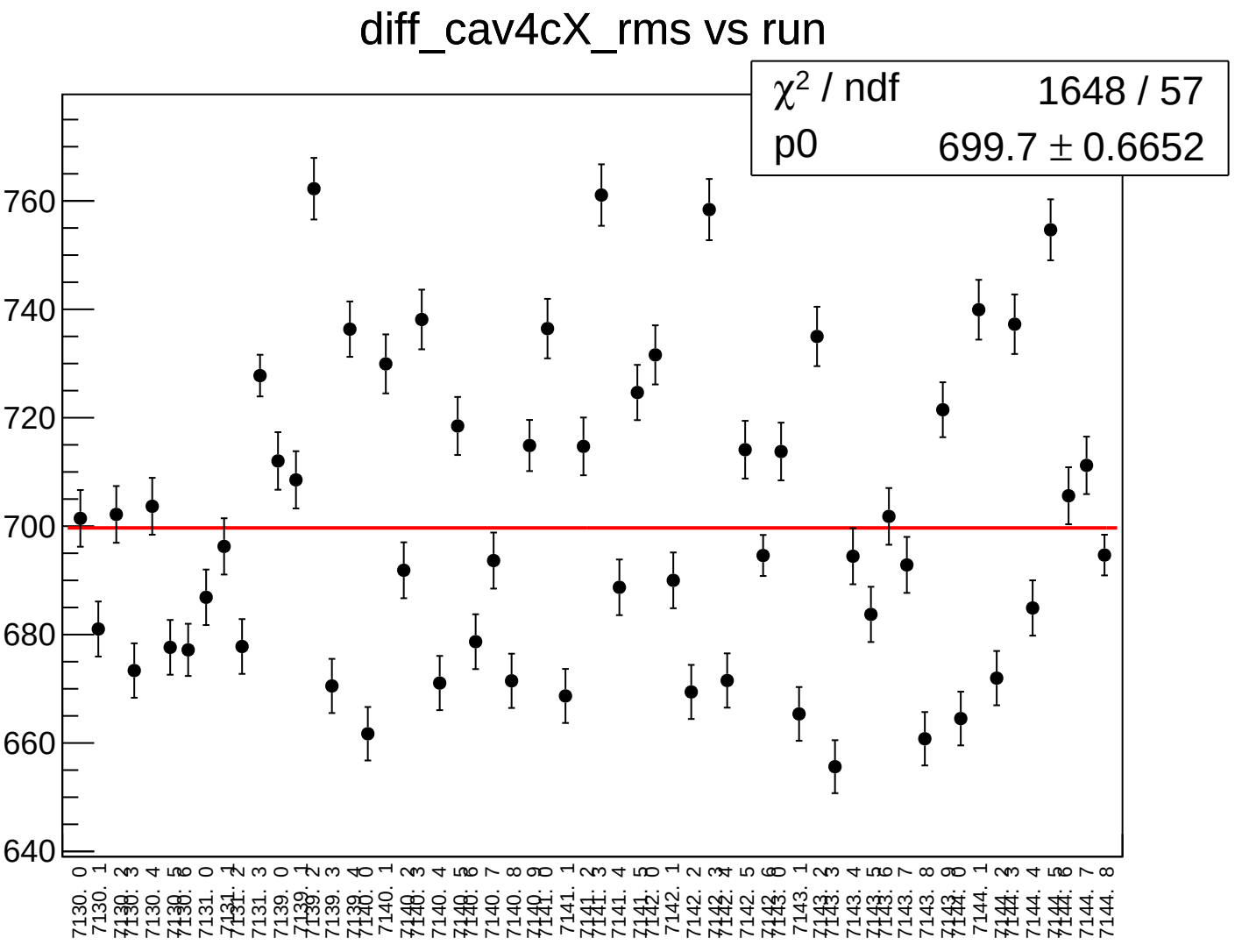

diff_cav4bY_mean vs run
χ² / ndf 80.87 / 57
p0 −2.931 ± 5.98
pull
Entries 58
Mean −354
Std Dev 379.6

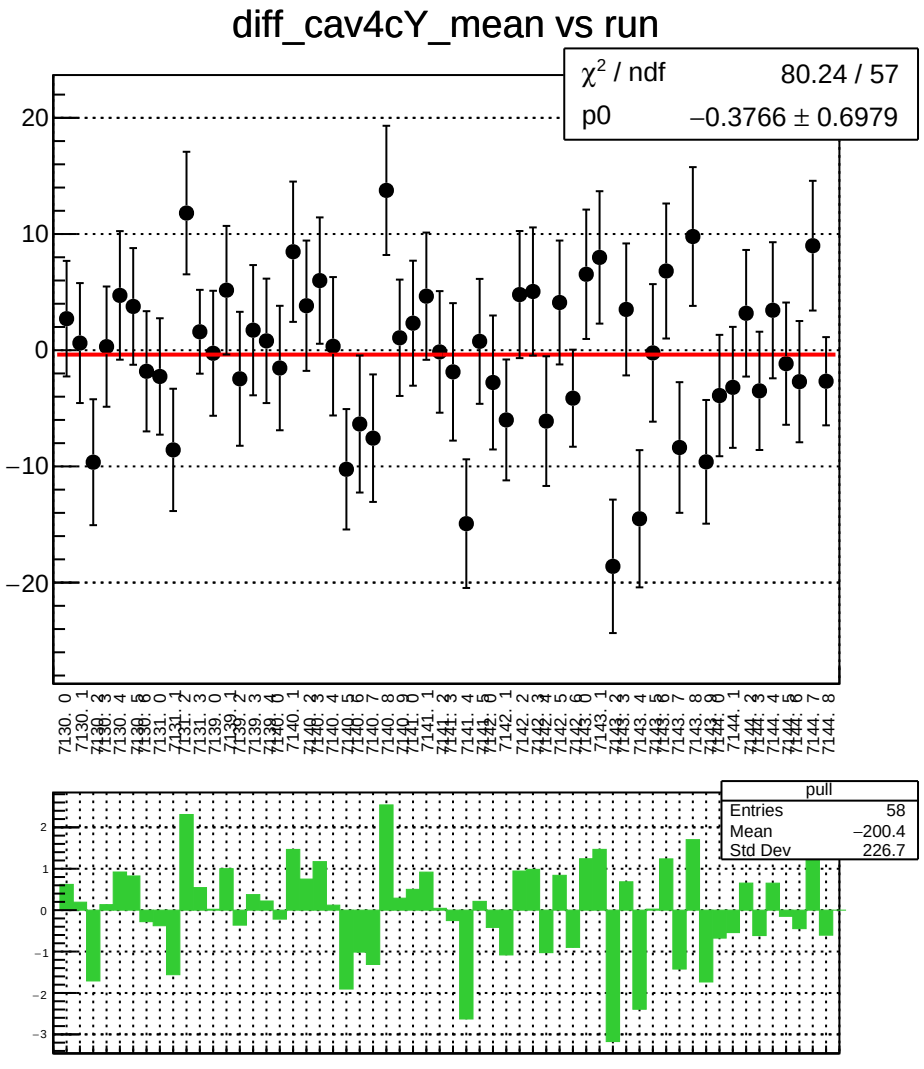

pull1D
Entries 58
Mean 0.005486
Std Dev 1.181

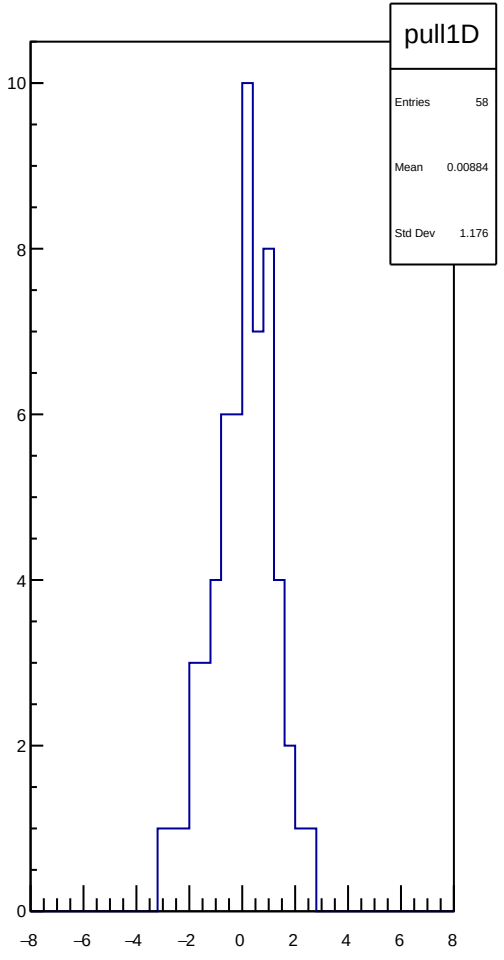

diff_cav4bY_rms vs run
χ² / ndf 4097 / 57
p0 4443 ± 4.229
5000
4800
4600
4400
4200
4000
3800

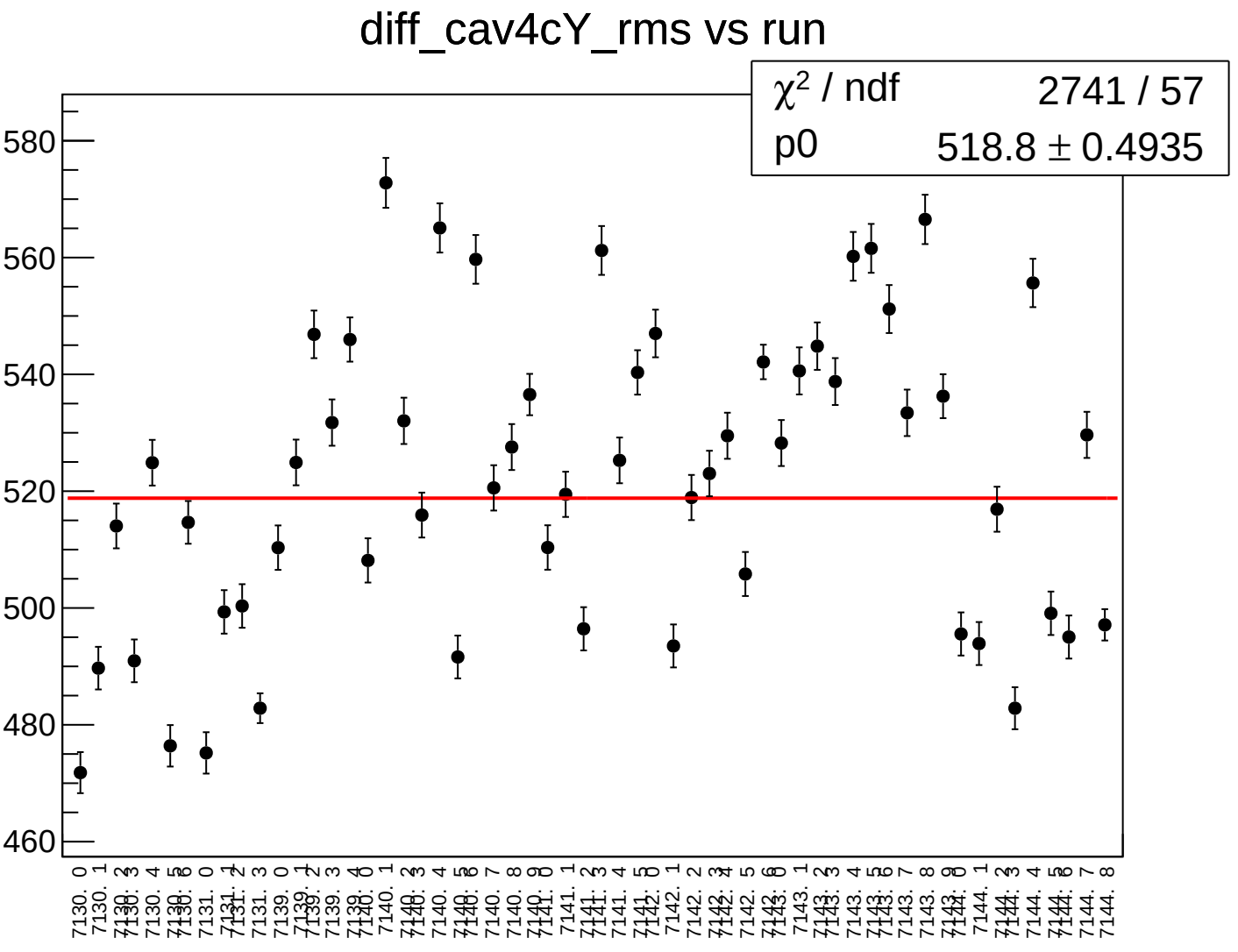

diff_cav4cX_mean vs run
χ² / ndf 60.87 / 57
p0 1.791 ± 0.9408
pull
Entries 58
Mean 349.2
Std Dev 319.1

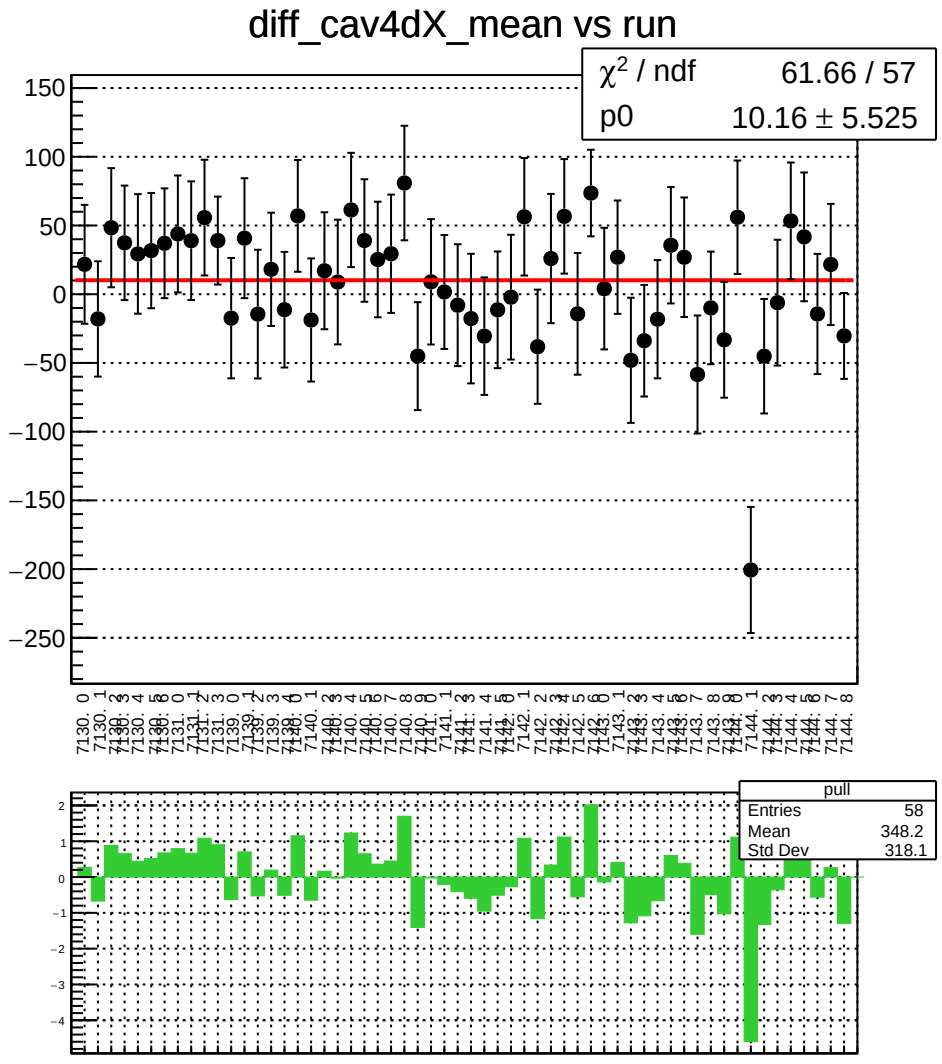

pull1D
Entries 58
Mean −0.01777
Std Dev 1.024

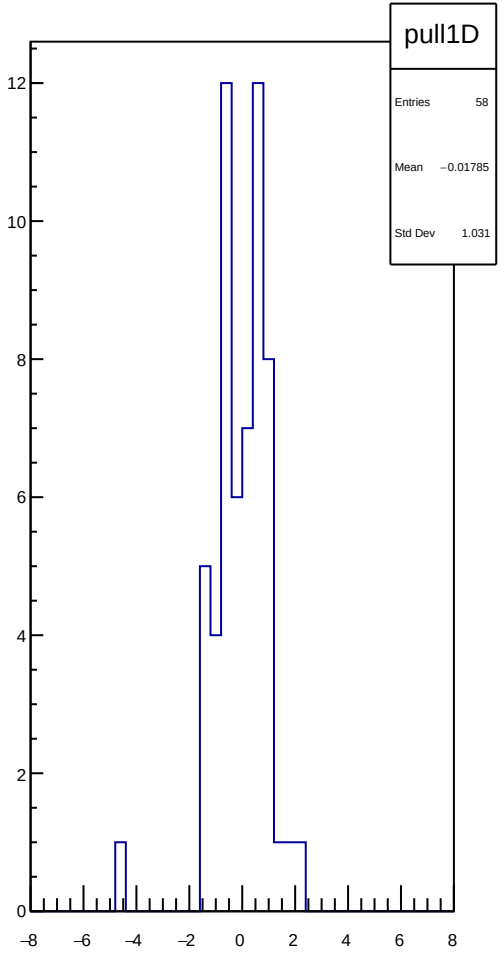

diff_cav4cX_rms vs run
χ² / ndf 1648 / 57
p0 699.7 ± 0.6652
760
740
720
700
680
660
640
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

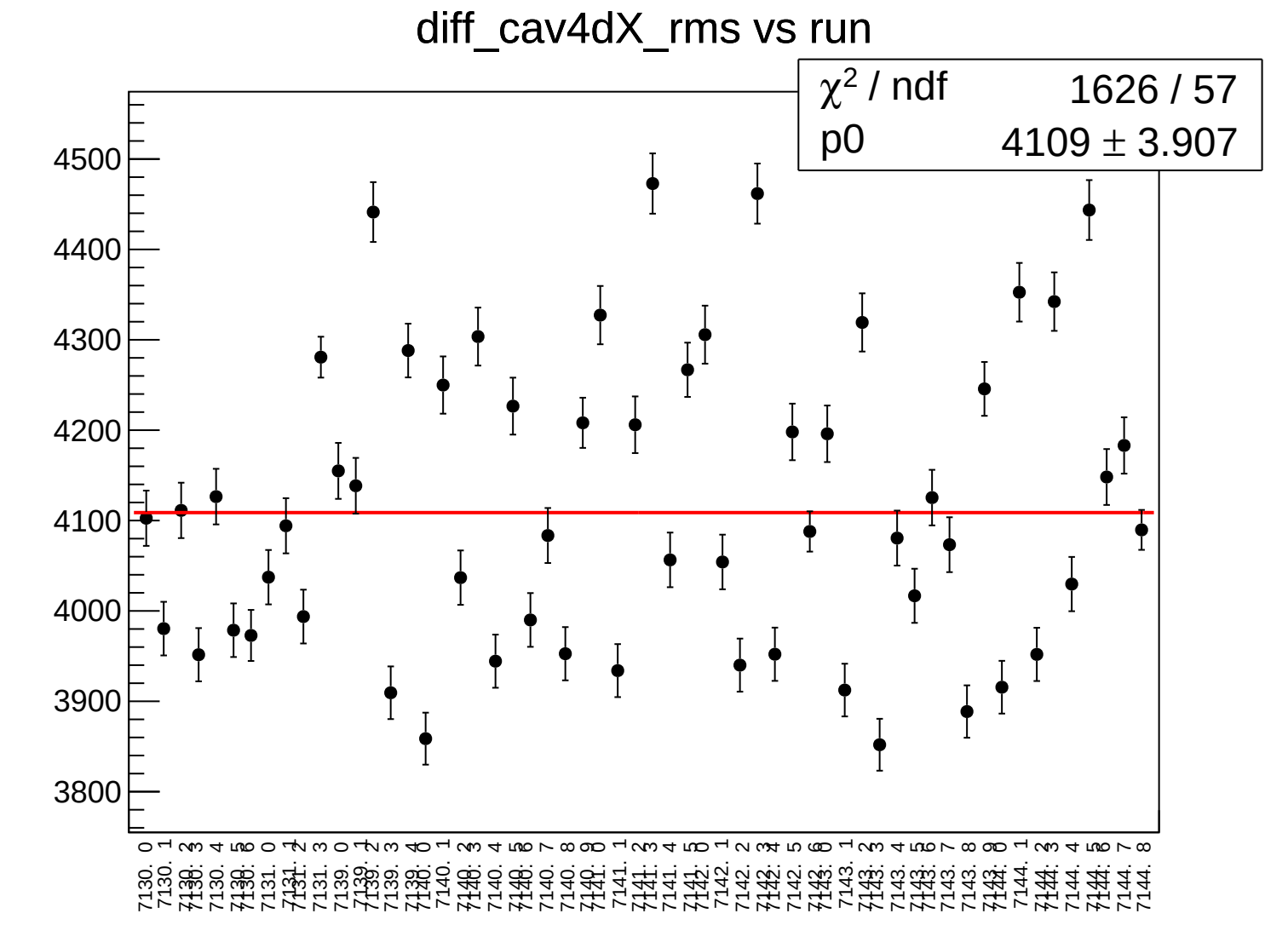

diff_cav4cY_mean vs run
χ² / ndf 80.24 / 57
p0 −0.3766 ± 0.6979
pull
Entries 58
Mean −200.4
Std Dev 226.7

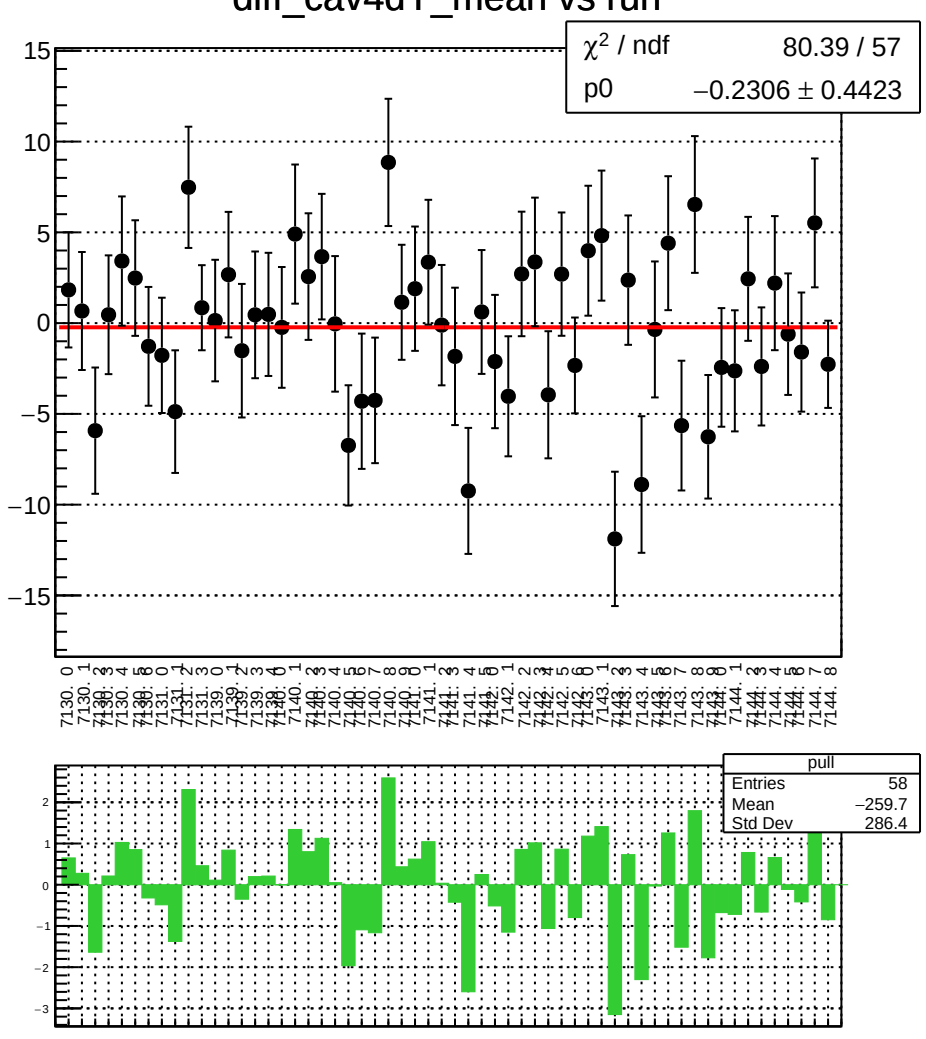

pull1D
Entries 58
Mean 0.00884
Std Dev 1.176

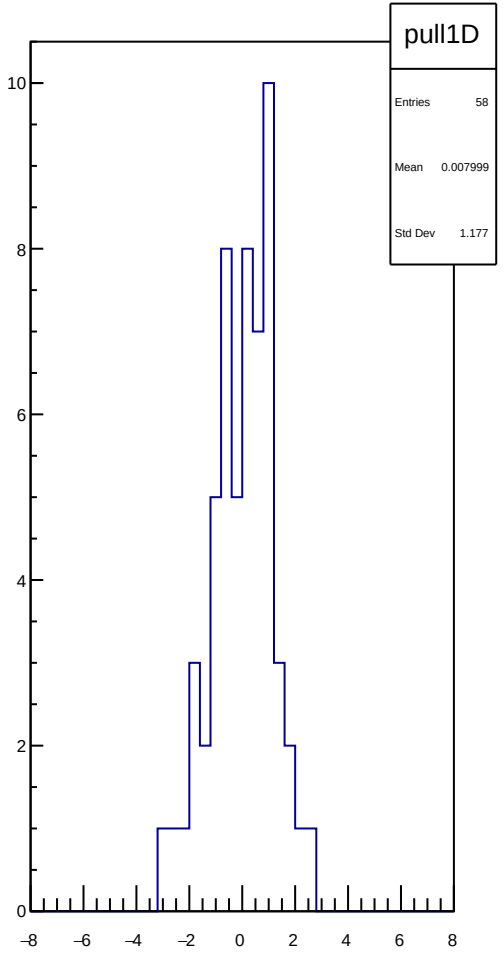

diff_cav4cY_rms vs run
χ² / ndf 2741 / 57
p0 518.8 ± 0.4935
580
560
540
520
500
480
460
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7141. 6
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

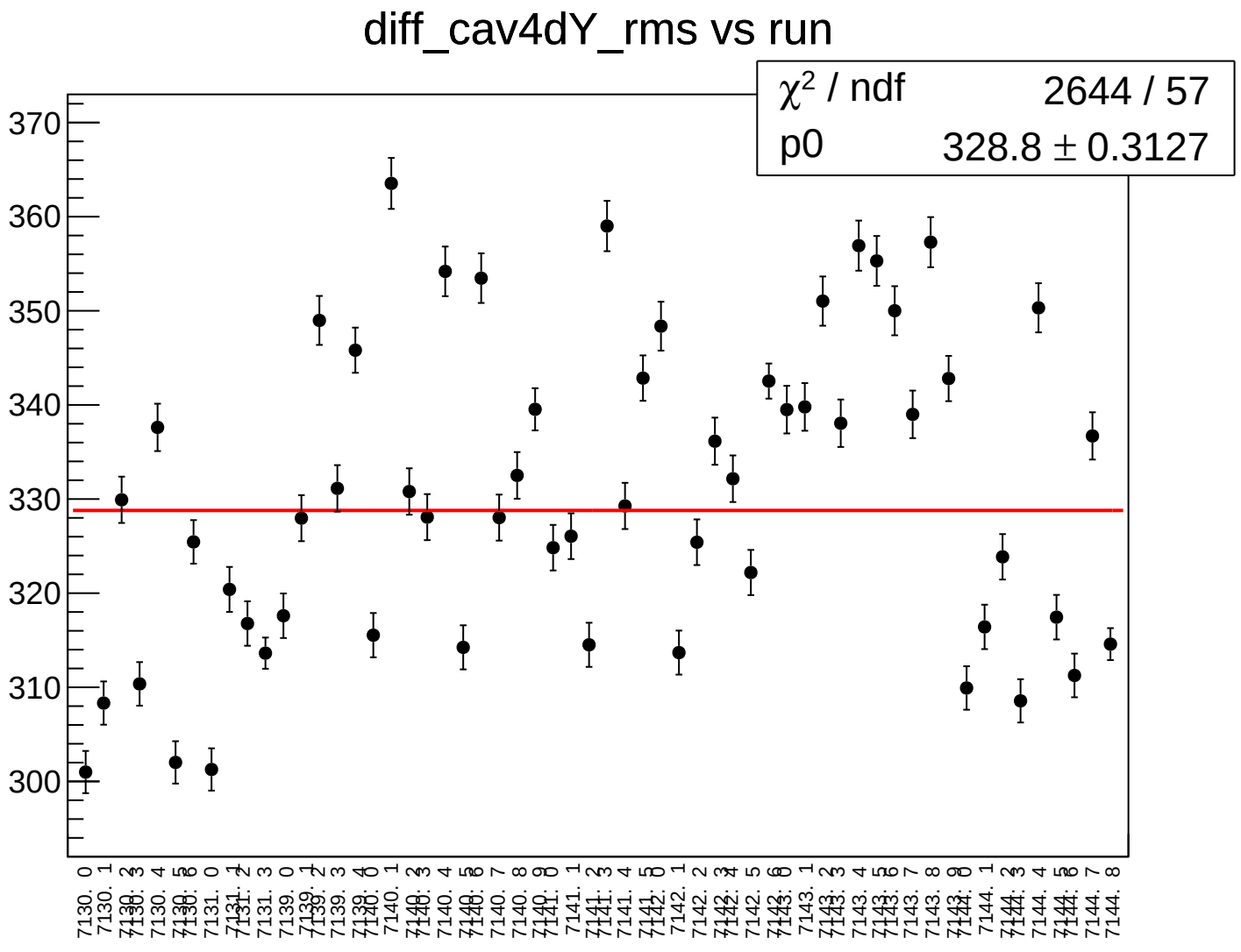

diff_cav4dX_mean vs run
χ^2 / ndf 61.66 / 57
p0 10.16 ± 5.525
pull
Entries 58
Mean 348.2
Std Dev 318.1

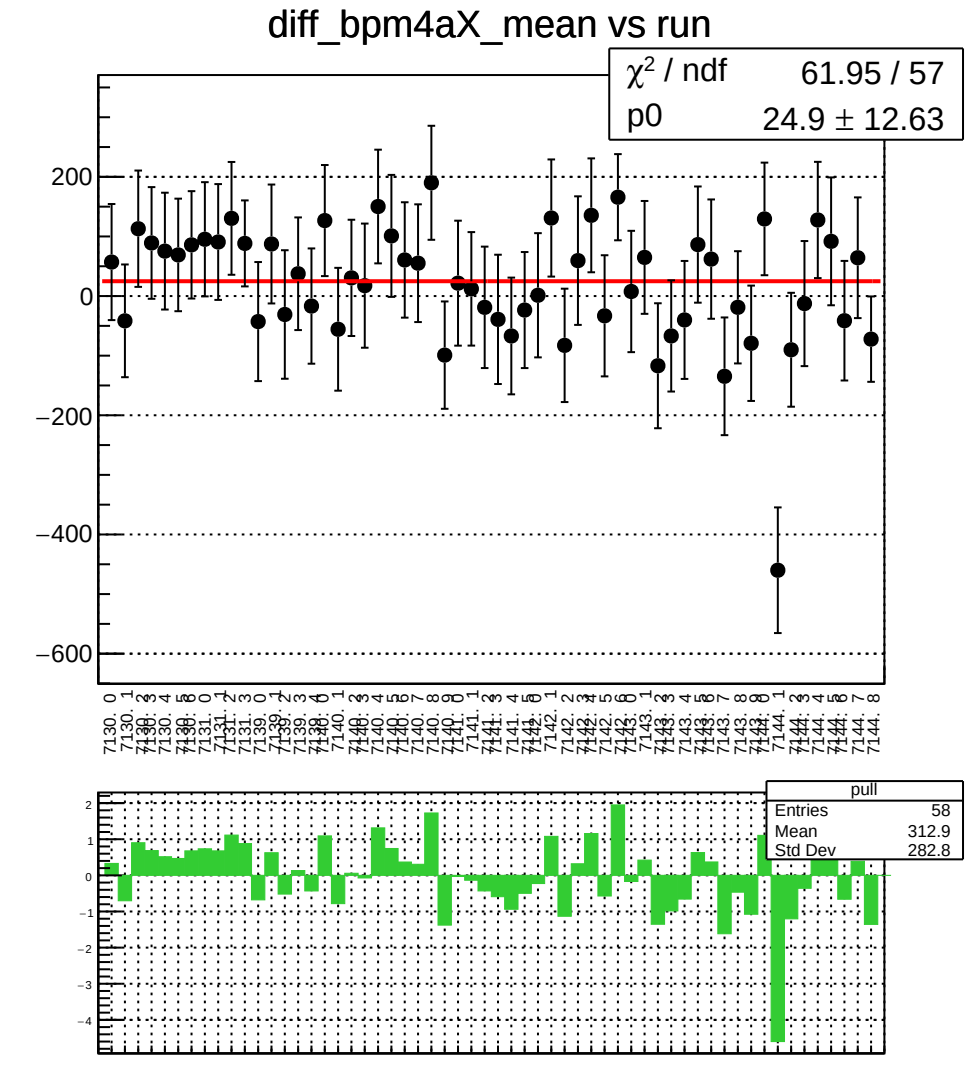

pull1D
Entries 58
Mean −0.01785
Std Dev 1.031

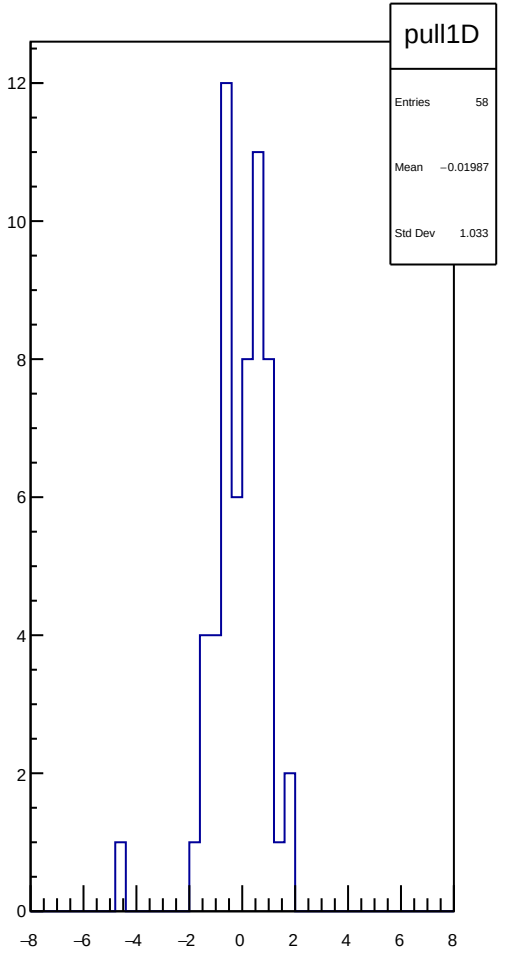

diff_cav4dX_rms vs run
χ² / ndf 1626 / 57
p0 4109 ± 3.907
4500
4400
4300
4200
4100
4000
3900
3800

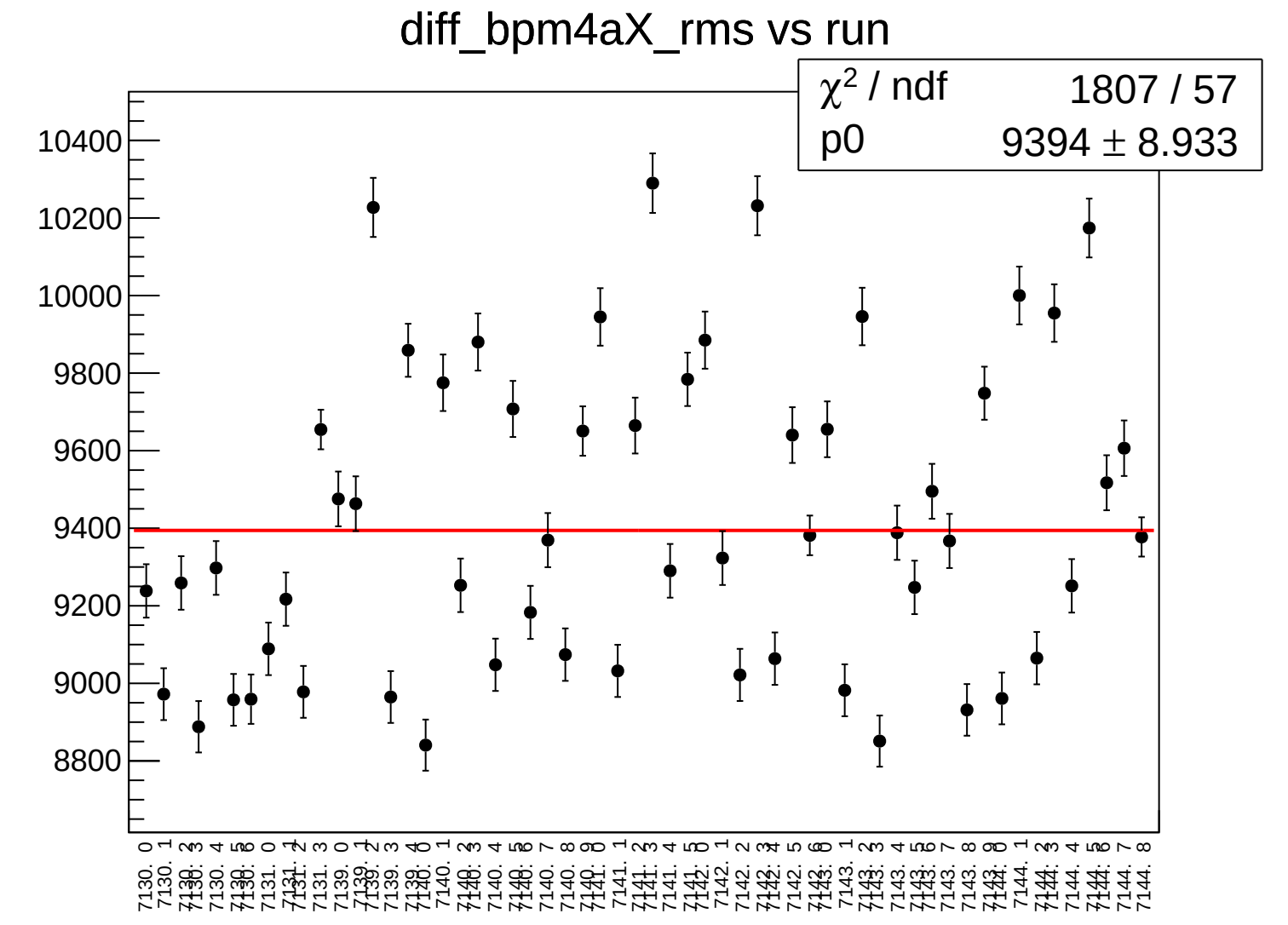

diff_cav4dY_mean vs run
χ² / ndf 80.39 / 57
p0 −0.2306 ± 0.4423
pull
Entries 58
Mean −259.7
Std Dev 286.4

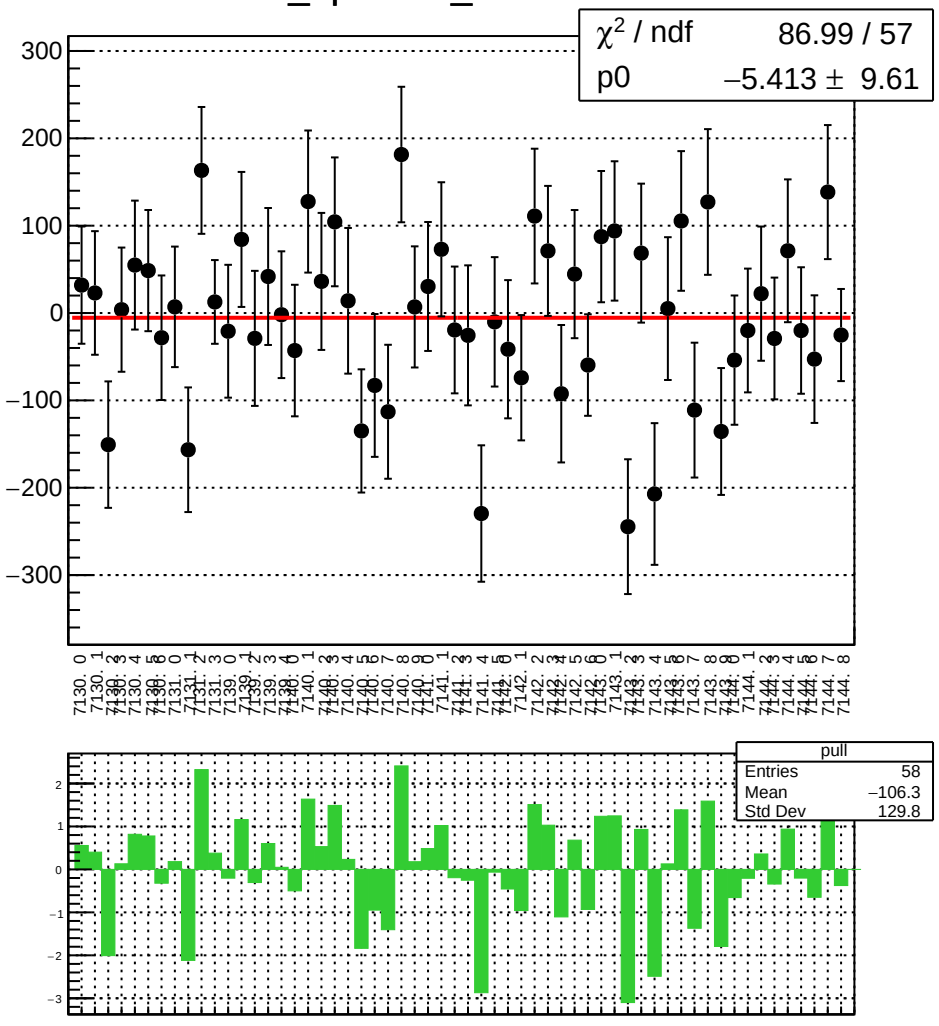

pull1D
Entries 58
Mean 0.007999
Std Dev 1.177

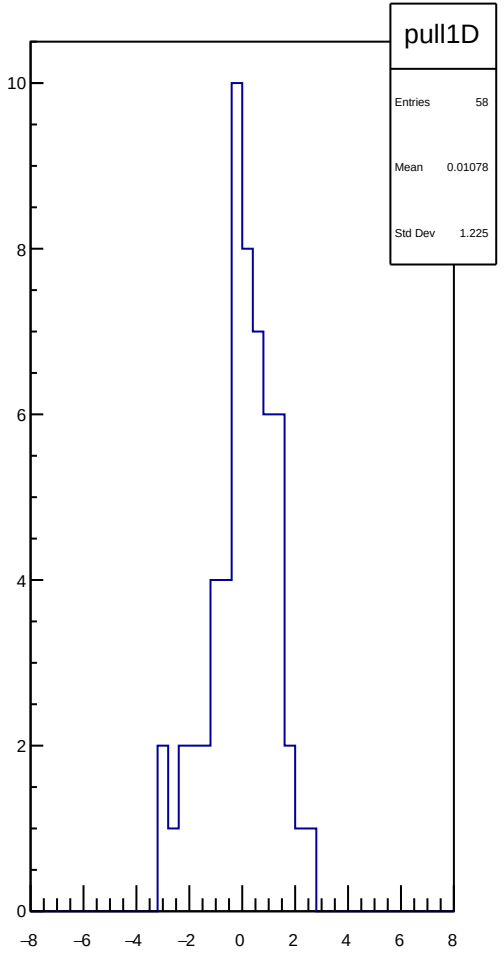

diff_cav4dY_rms vs run
χ² / ndf 2644 / 57
p0 328.8 ± 0.3127
370
360
350
340
330
320
310
300
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

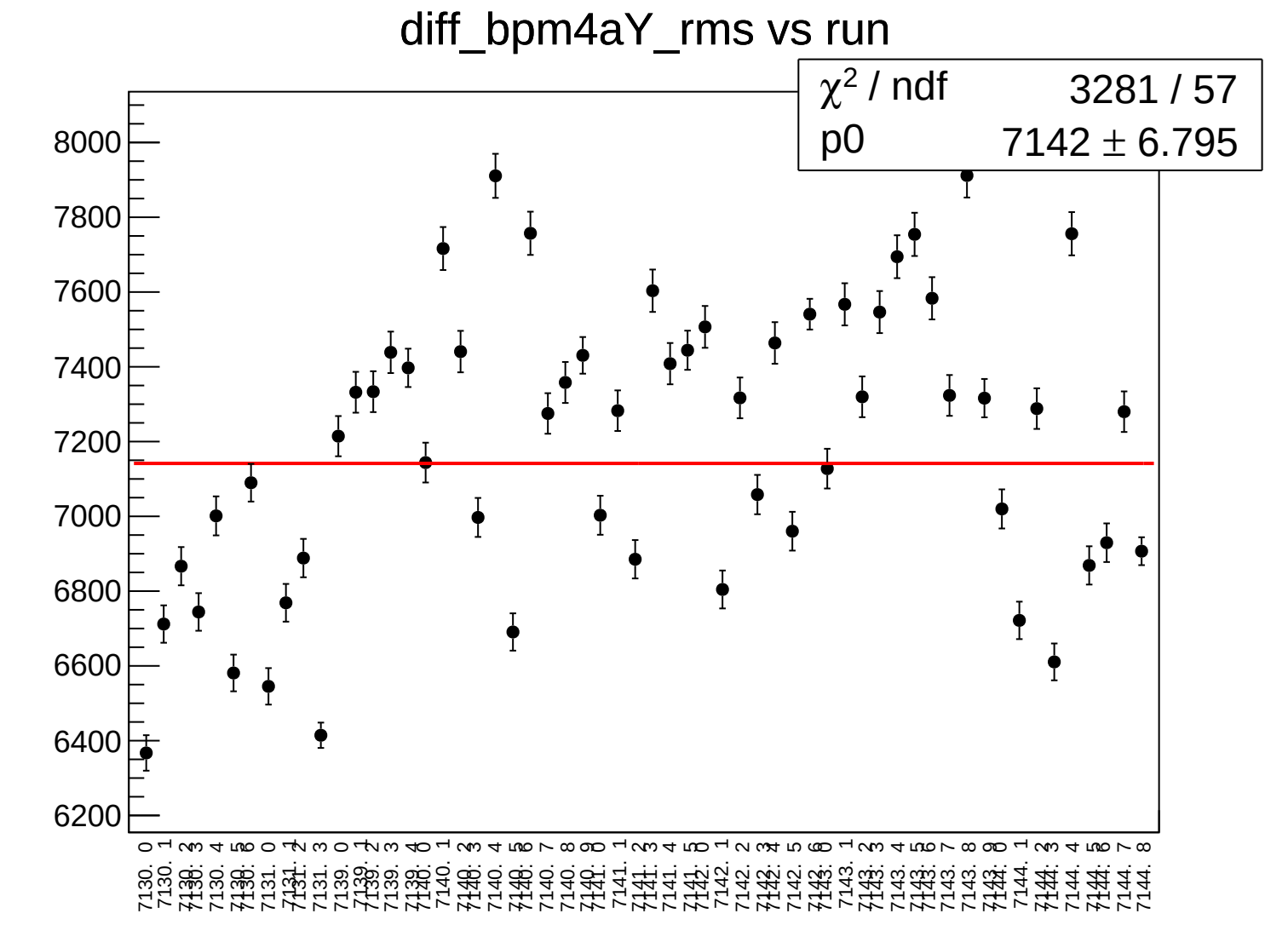

diff_bpm4aX_mean vs run
χ² / ndf 61.95 / 57
p0 24.9 ± 12.63
200
0
−200
−400
−600
pull
Entries 58
Mean 312.9
Std Dev 282.8
2
1
0
−1
−2
−3
−4

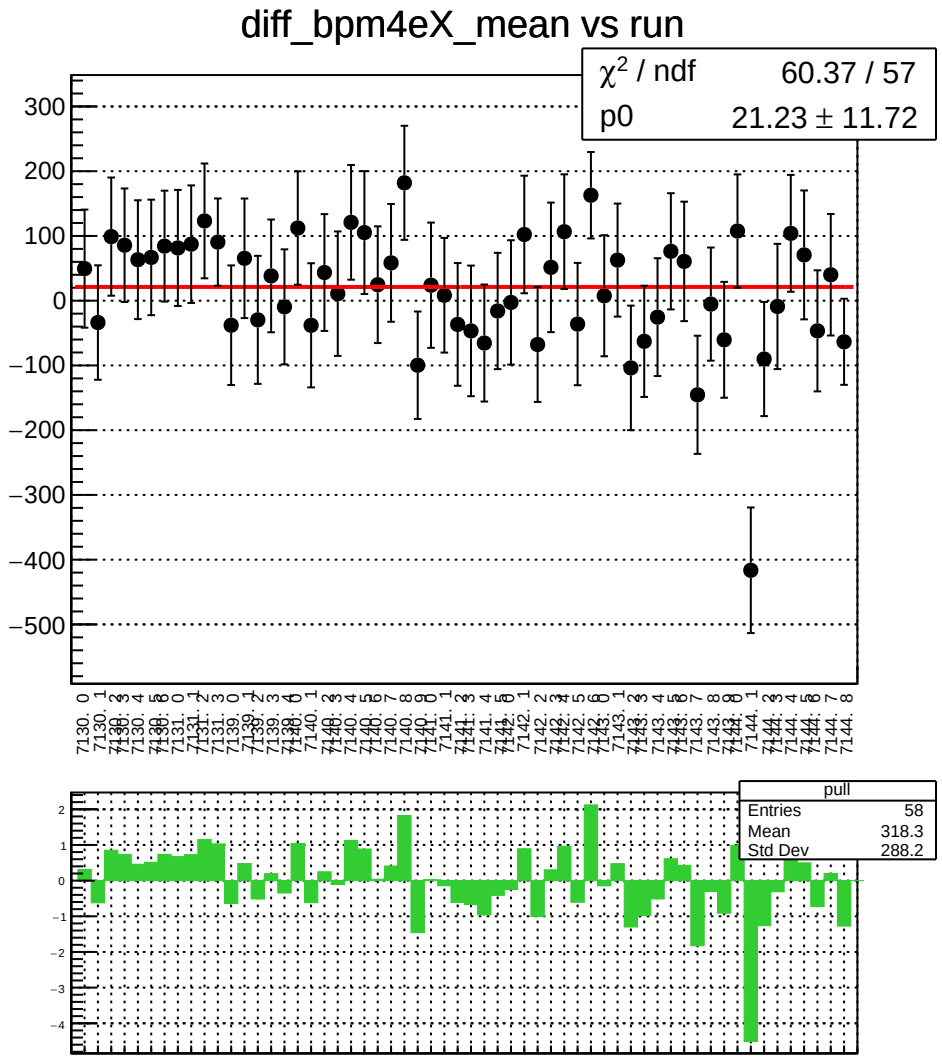

pull1D
Entries 58
Mean −0.01987
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

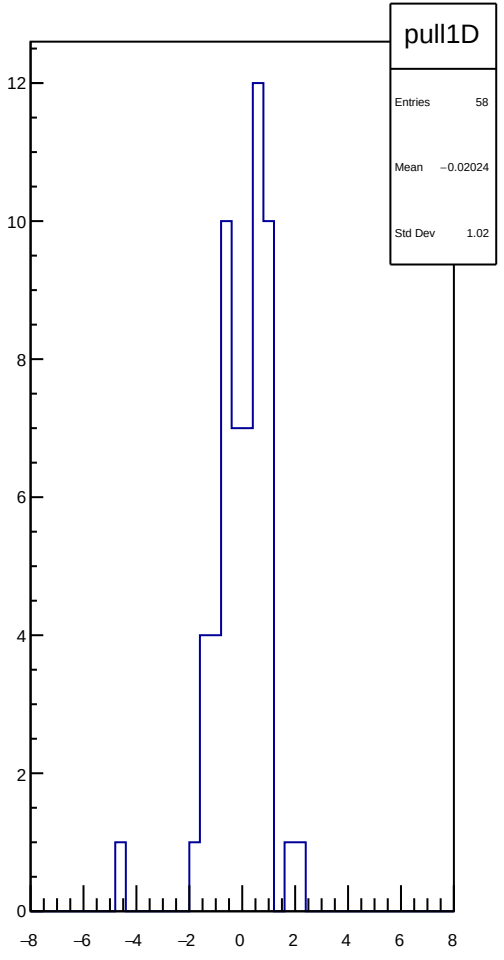

diff_bpm4aX_rms vs run
χ² / ndf 1807 / 57
p0 9394 ± 8.933
10400
10200
10000
9800
9600
9400
9200
9000
8800

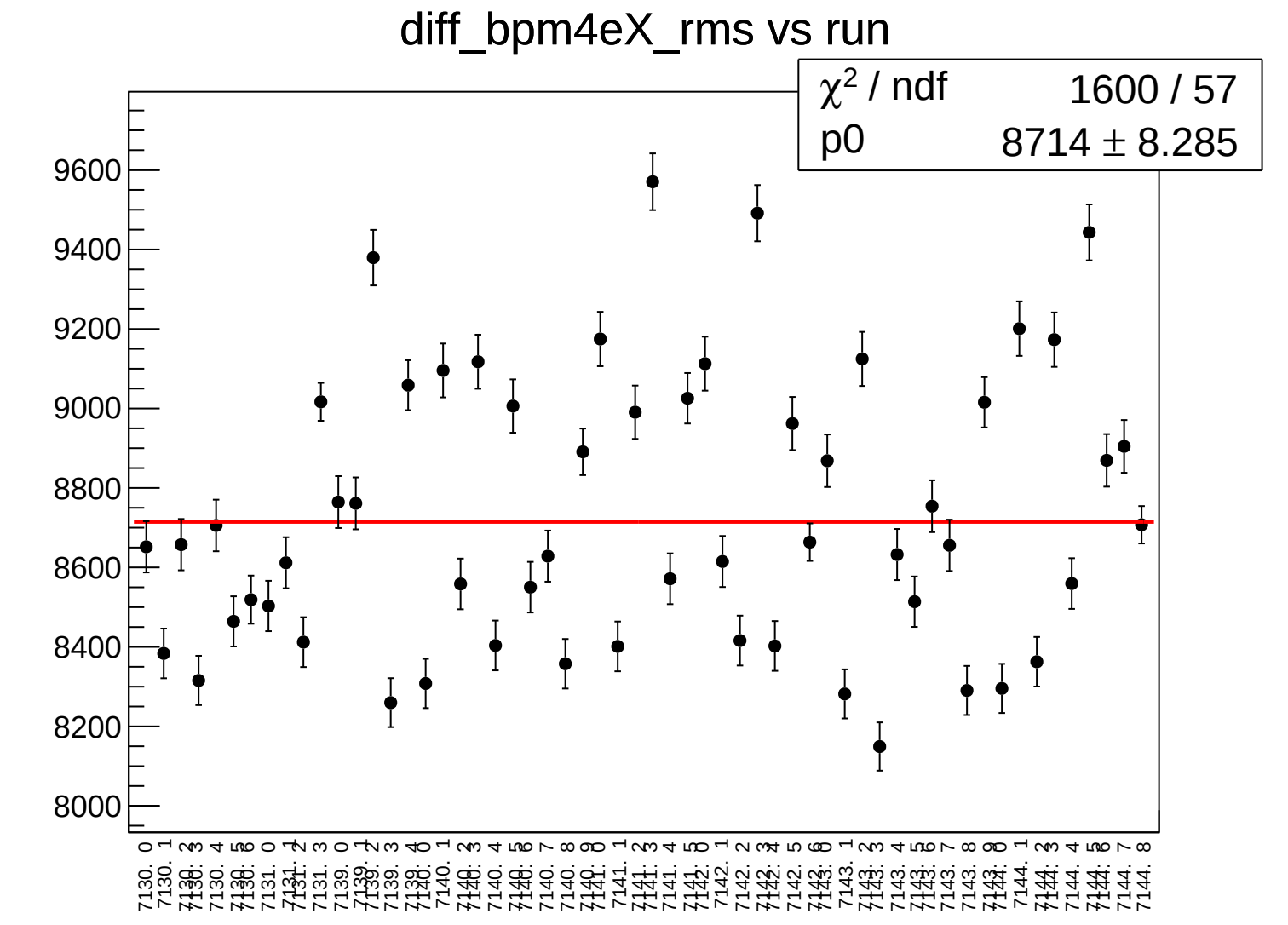

diff_bpm4aY_mean vs run
χ² / ndf 86.99 / 57
p0 −5.413 ± 9.61
pull
Entries 58
Mean −106.3
Std Dev 129.8

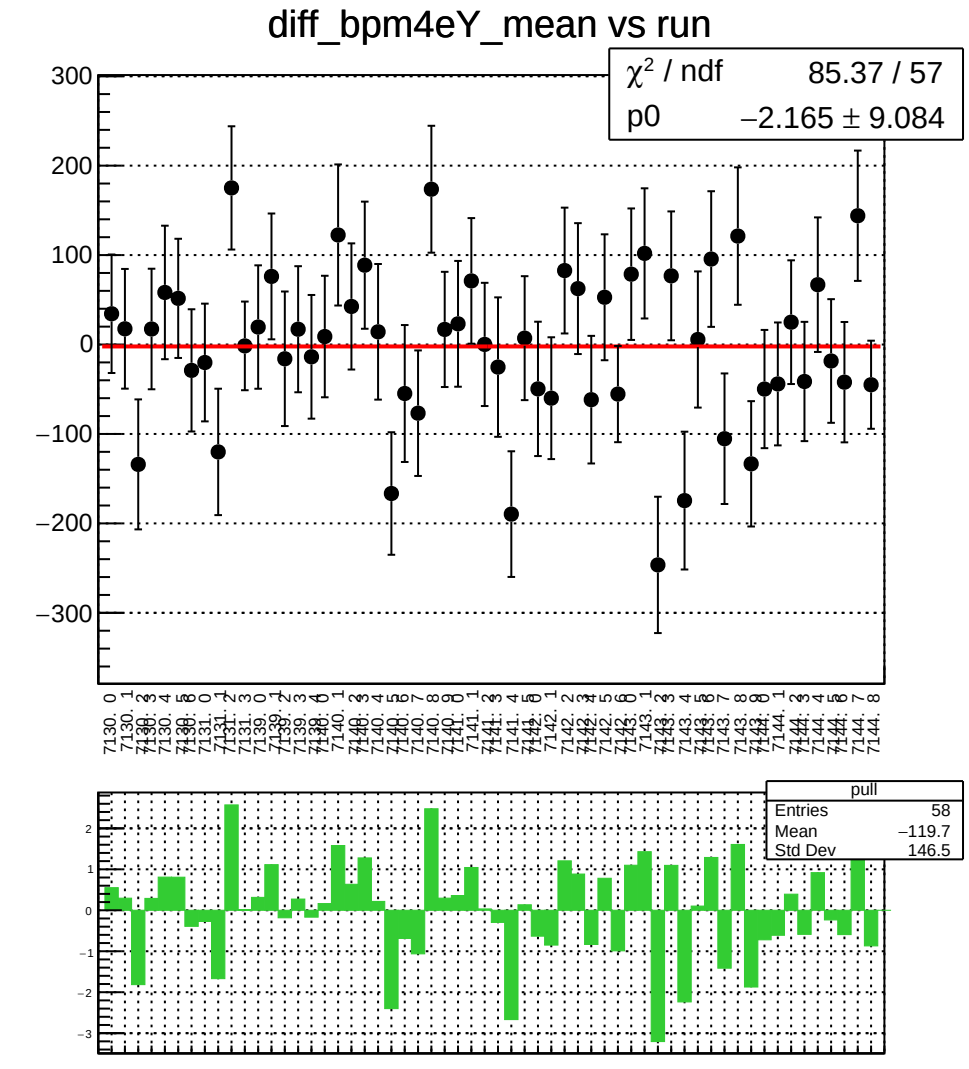

pull1D
Entries 58
Mean 0.01078
Std Dev 1.225

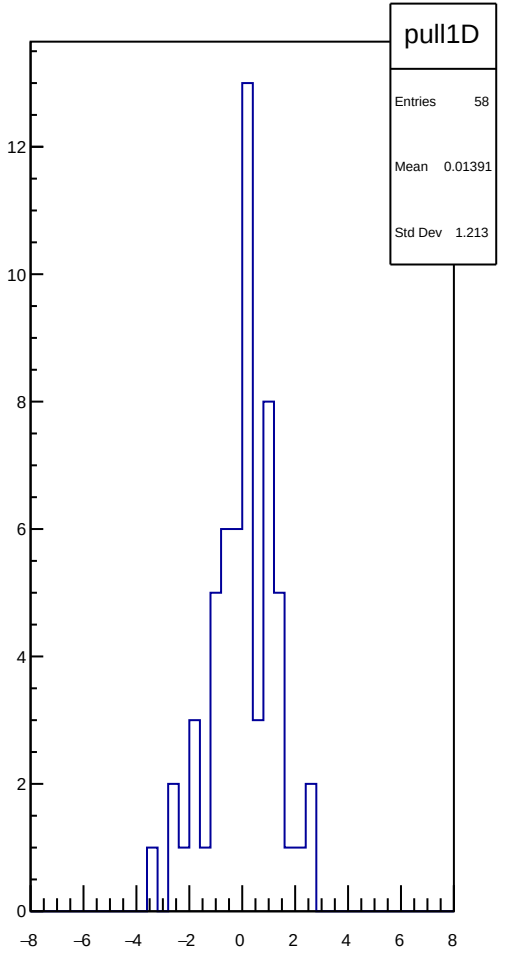

diff_bpm4aY_rms vs run
χ² / ndf 3281 / 57
p0 7142 ± 6.795
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

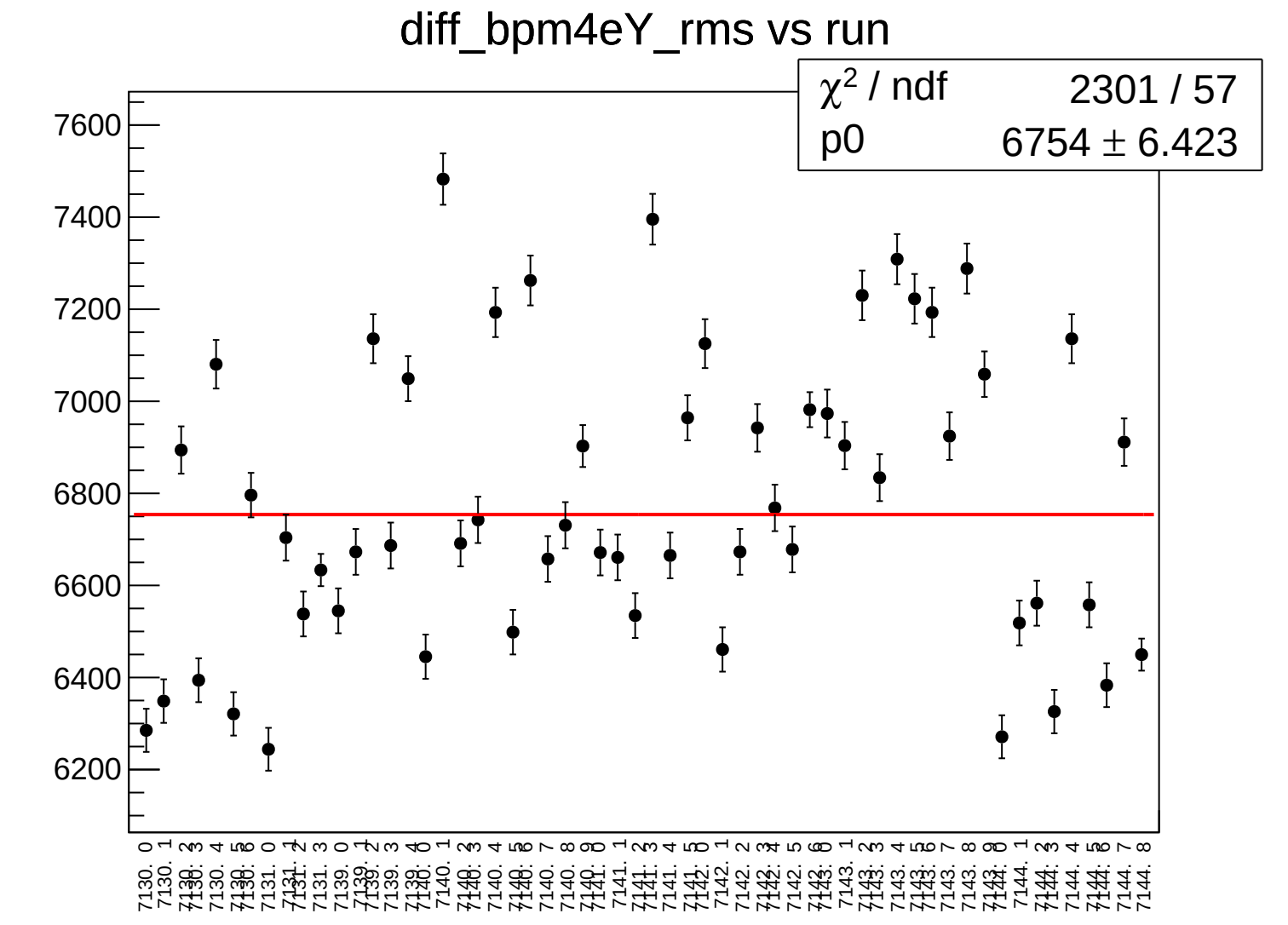

diff_bpm4eX_mean vs run
χ^2 / ndf 60.37 / 57
p0 21.23 ± 11.72
pull
Entries 58
Mean 318.3
Std Dev 288.2

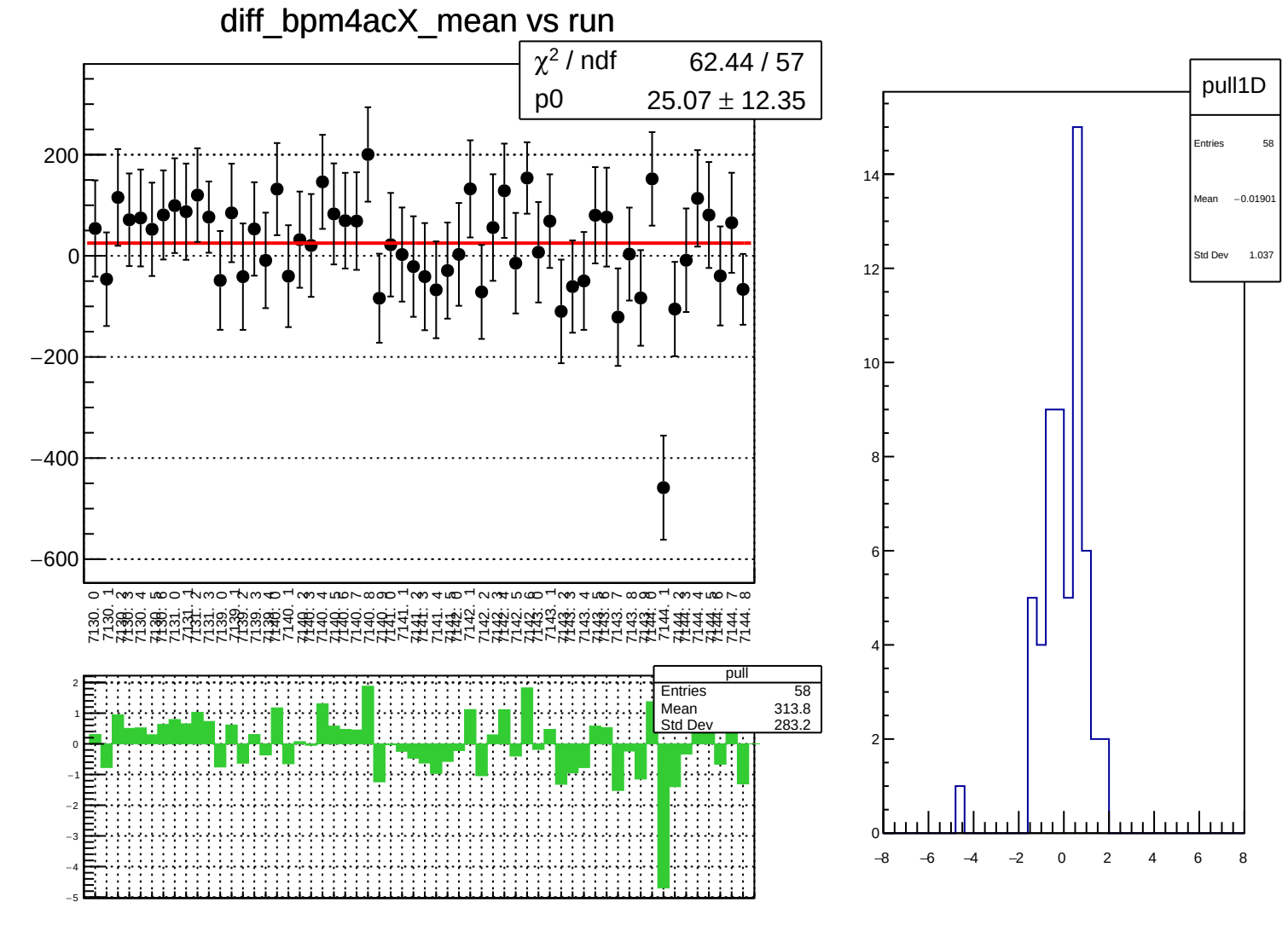

pull1D
Entries 58
Mean −0.02024
Std Dev 1.02

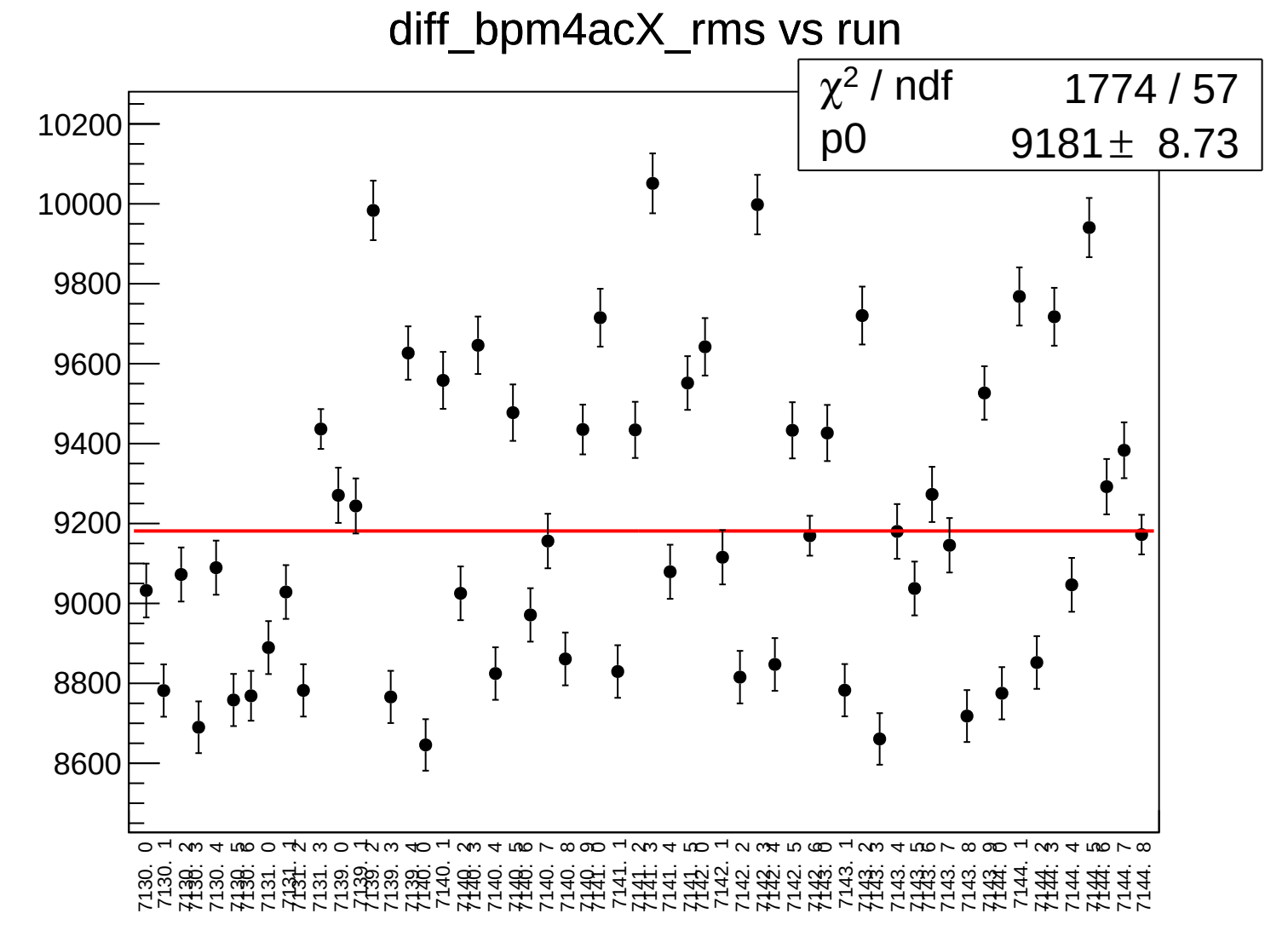

diff_bpm4eX_rms vs run
χ² / ndf 1600 / 57
p0 8714 ± 8.285
9600
9400
9200
9000
8800
8600
8400
8200
8000
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

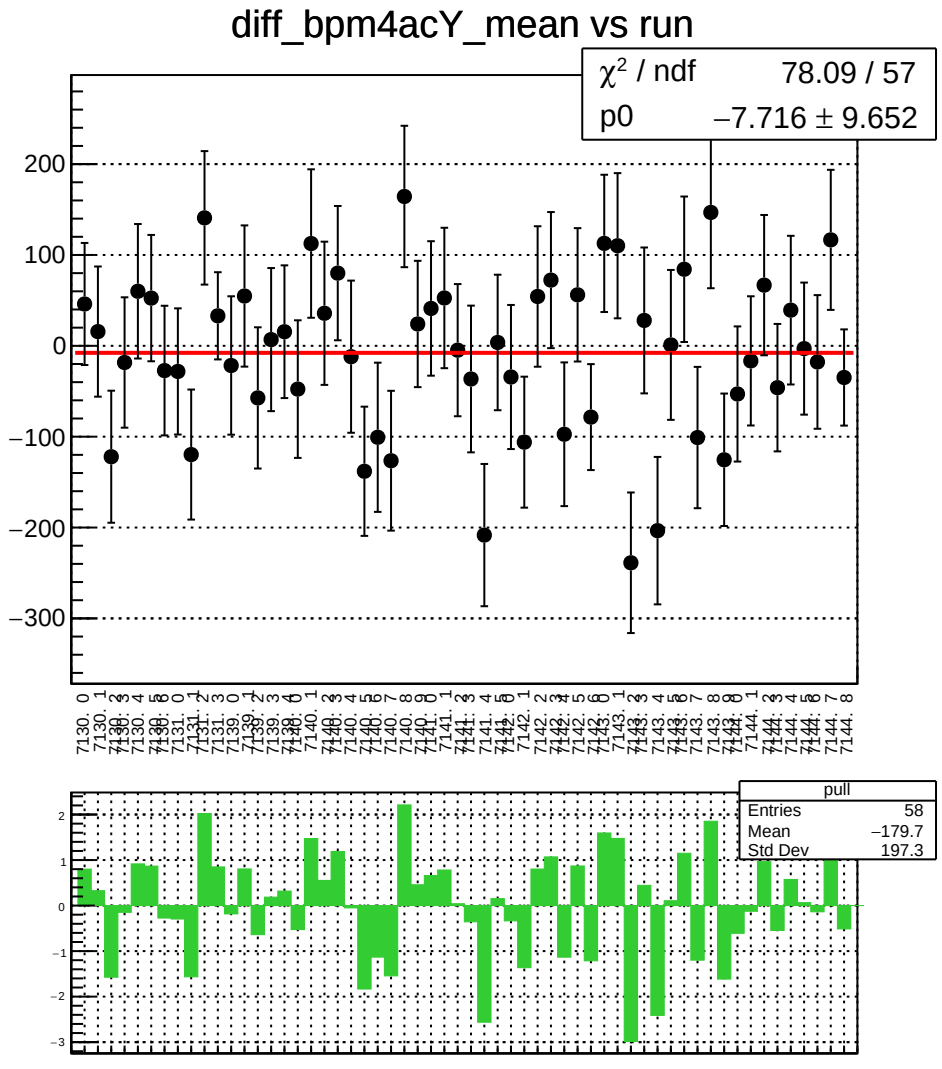

diff_bpm4eY_mean vs run
χ² / ndf 85.37 / 57
p0 −2.165 ± 9.084
pull
Entries 58
Mean −119.7
Std Dev 146.5

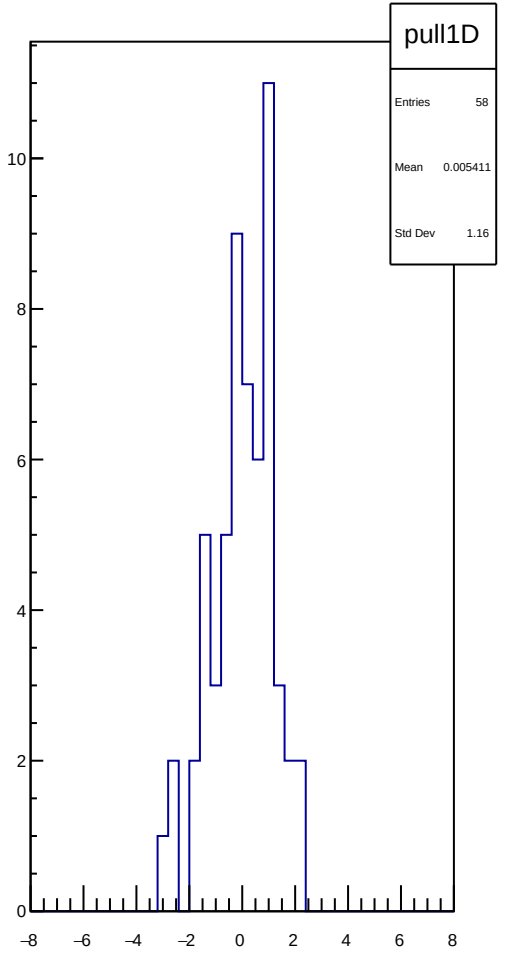

pull1D
Entries 58
Mean 0.01391
Std Dev 1.213

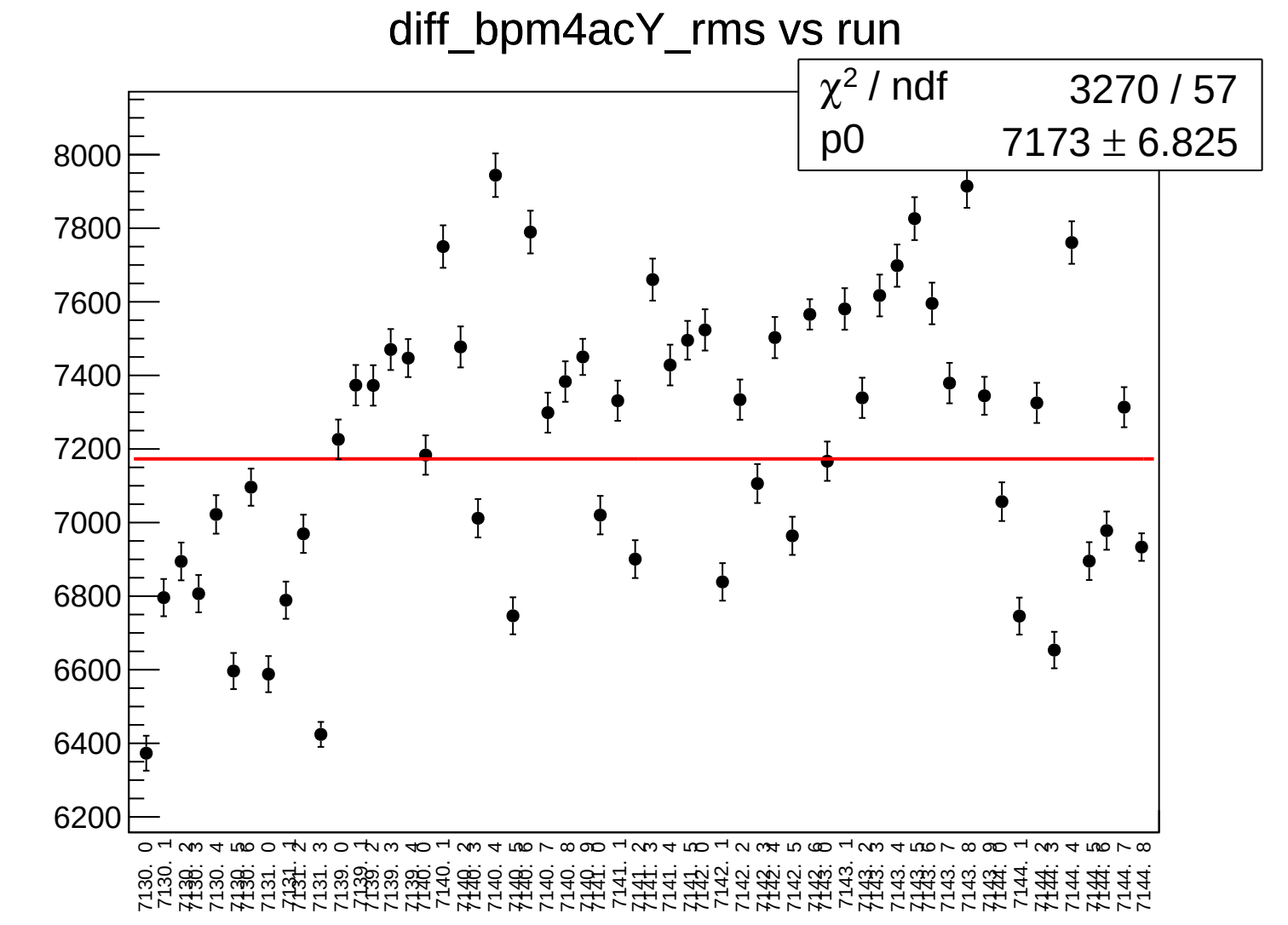

diff_bpm4eY_rms vs run
χ² / ndf 2301 / 57
p0 6754 ± 6.423
7600
7400
7200
7000
6800
6600
6400
6200

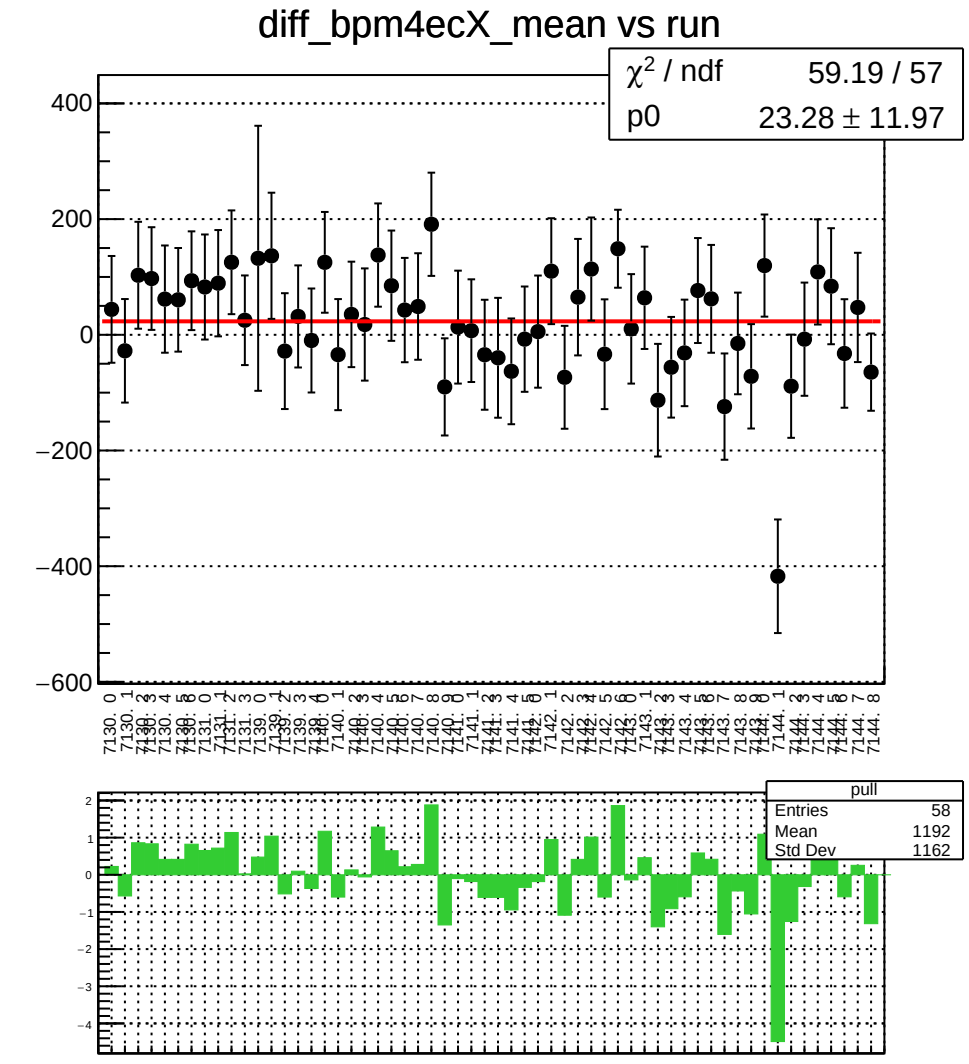

diff_bpm4acX_mean vs run
χ² / ndf 62.44 / 57
p0 25.07 ± 12.35
pull
Entries 58
Mean 313.8
Std Dev 283.2
pull1D
Entries 58
Mean −0.01901
Std Dev 1.037

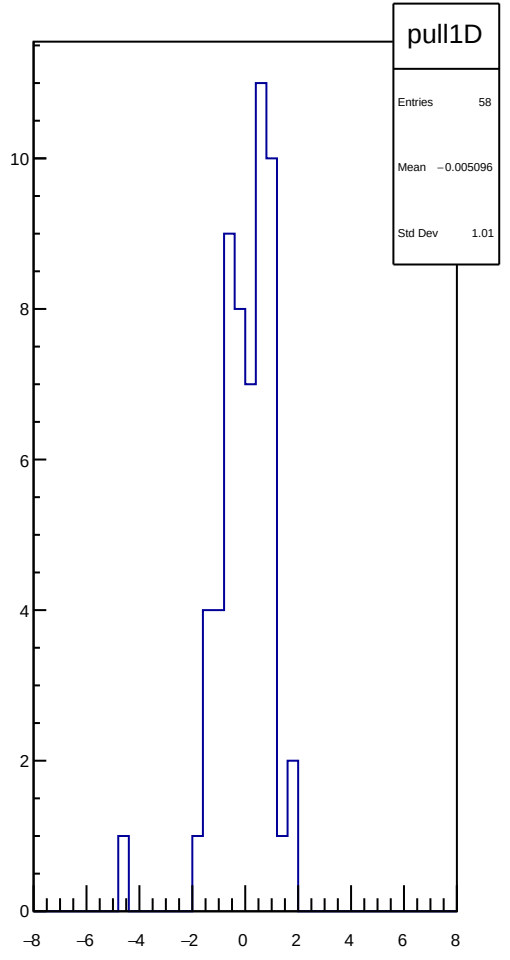

diff_bpm4acX_rms vs run
χ² / ndf 1774 / 57
p0 9181 ± 8.73
10200
10000
9800
9600
9400
9200
9000
8800
8600

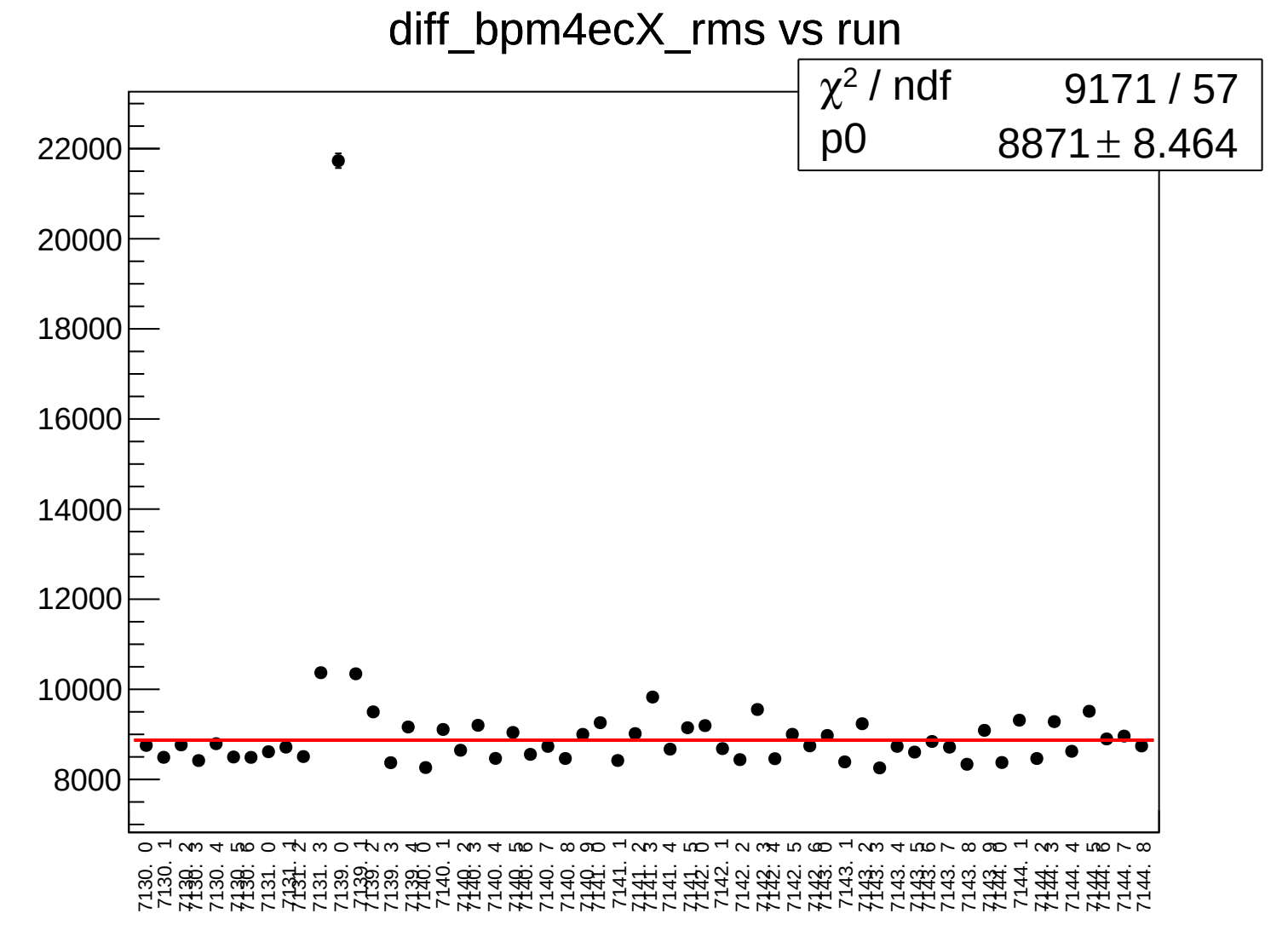

diff_bpm4acY_mean vs run
χ² / ndf 78.09 / 57
p0 −7.716 ± 9.652
200
100
0
−100
−200
−300
pull
Entries 58
Mean −179.7
Std Dev 197.3
2
1
0
−1
−2
−3

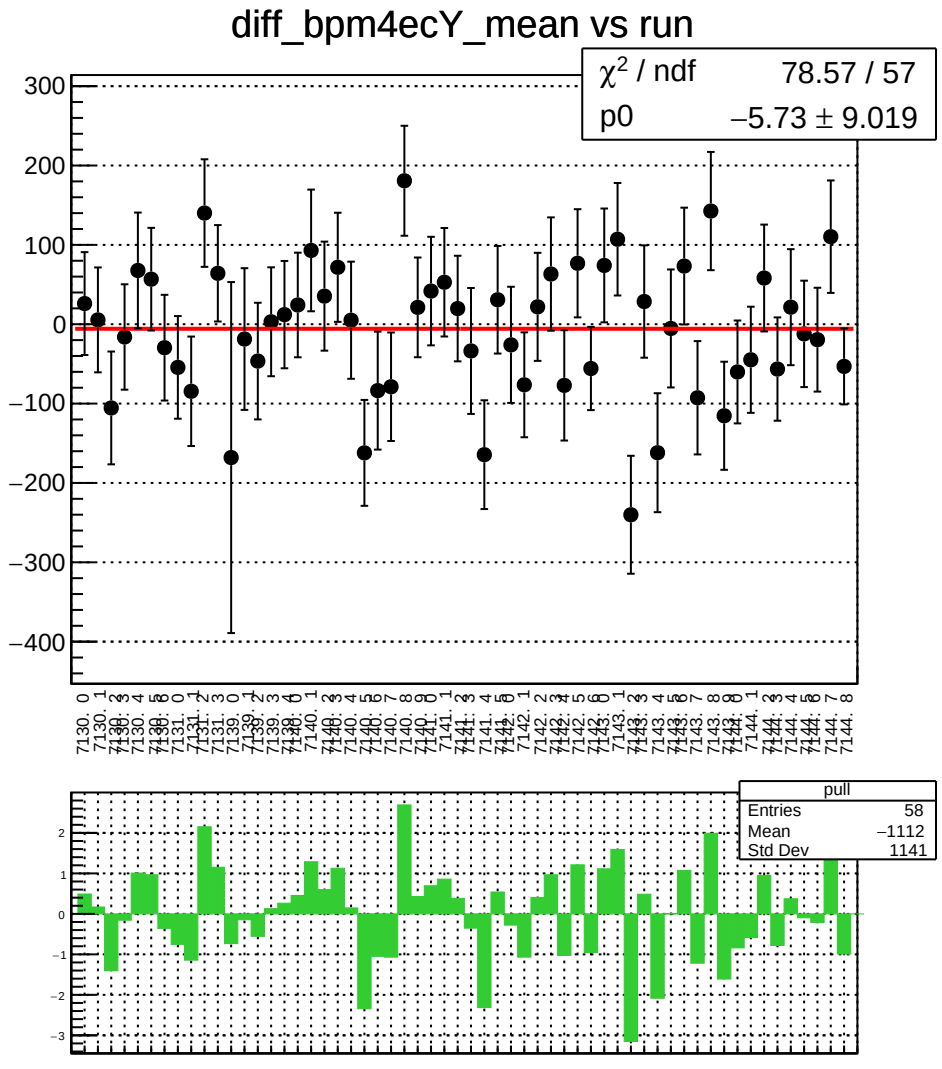

pull1D
Entries 58
Mean 0.005411
Std Dev 1.16
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

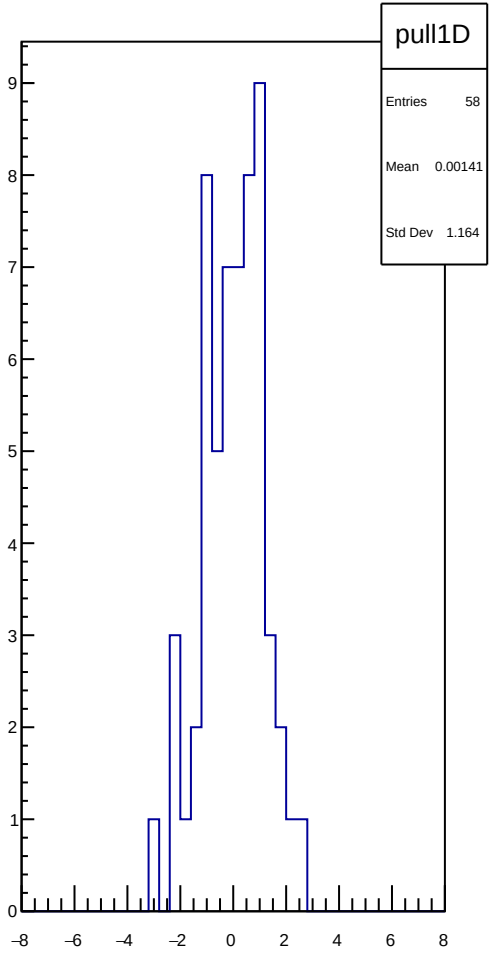

diff_bpm4acY_rms vs run
χ² / ndf 3270 / 57
p0 7173 ± 6.825
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

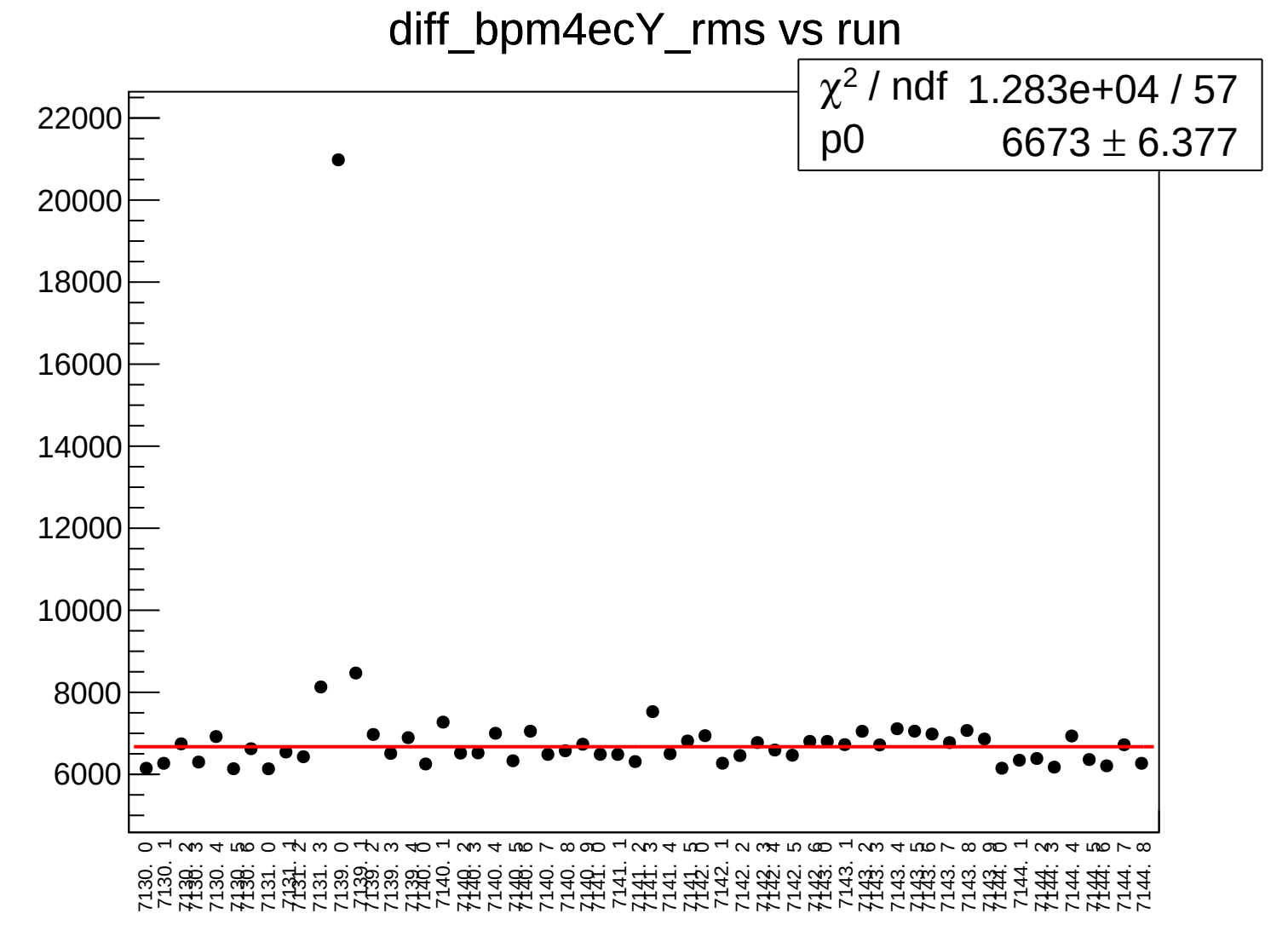

diff_bpm4ecX_mean vs run
χ² / ndf 59.19 / 57
p0 23.28 ± 11.97
pull
Entries 58
Mean 1192
Std Dev 1162

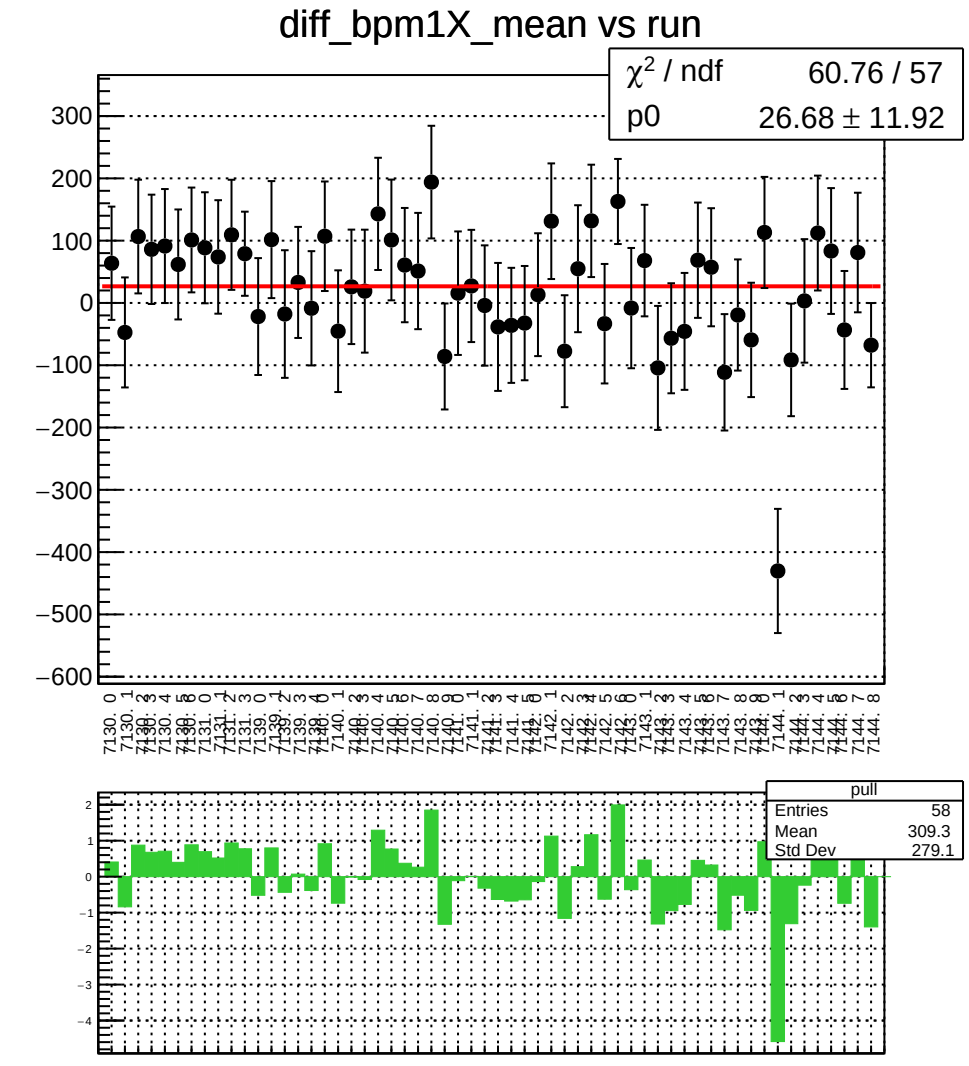

pull1D
Entries 58
Mean −0.005096
Std Dev 1.01

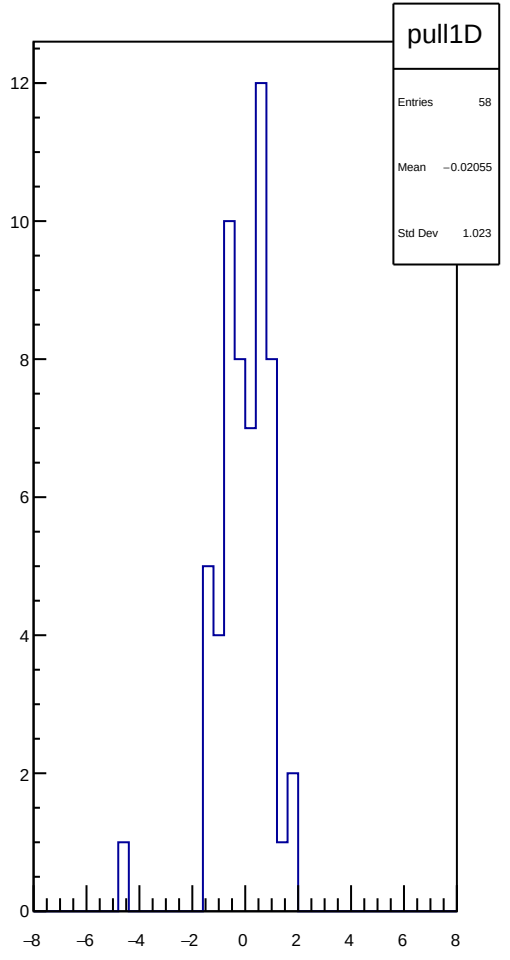

diff_bpm4ecX_rms vs run
χ² / ndf 9171 / 57
p0 8871 ± 8.464
22000
20000
18000
16000
14000
12000
10000
8000
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

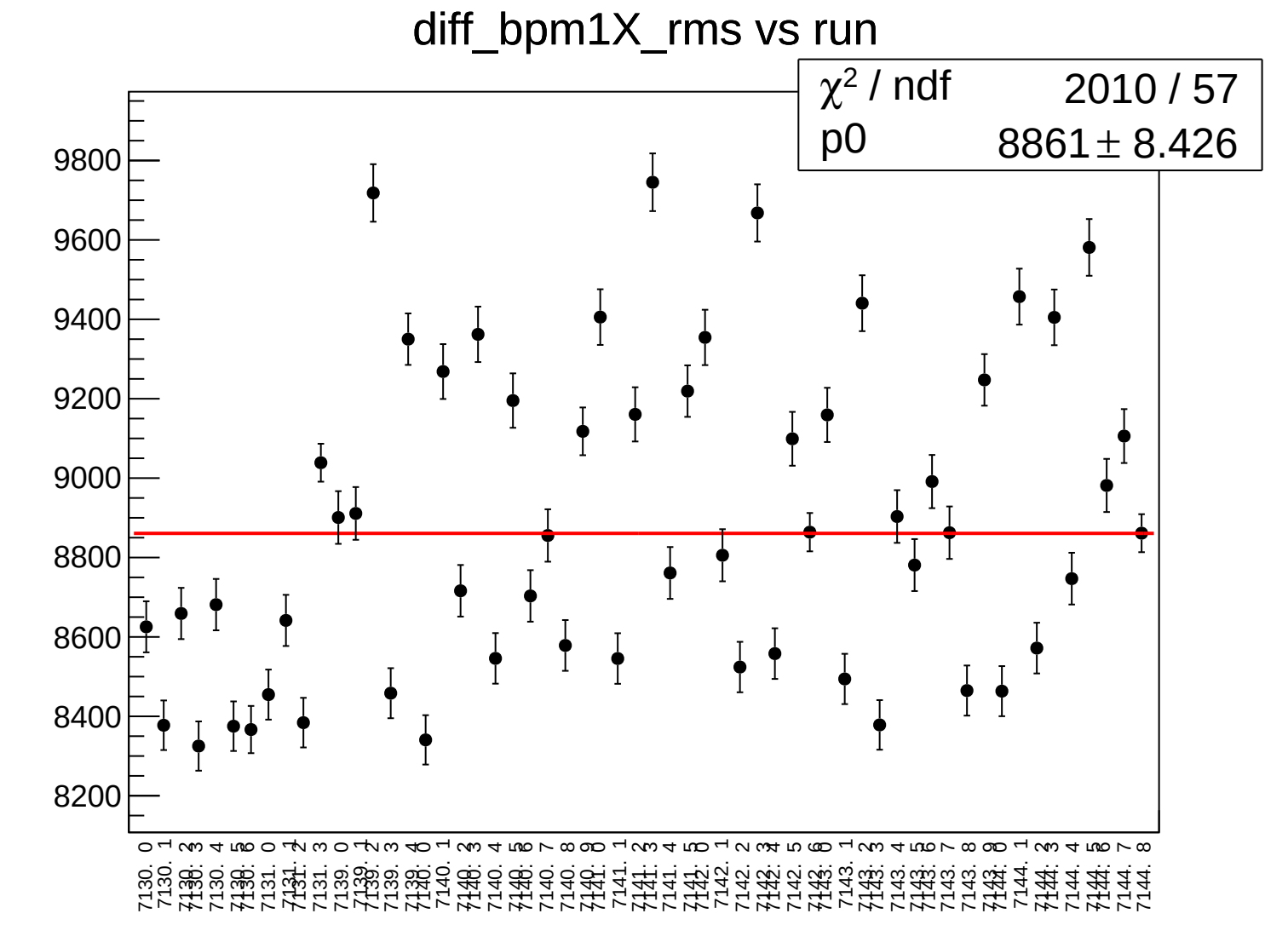

diff_bpm4ecY_mean vs run
χ² / ndf 78.57 / 57
p0 −5.73 ± 9.019
pull
Entries 58
Mean −1112
Std Dev 1141

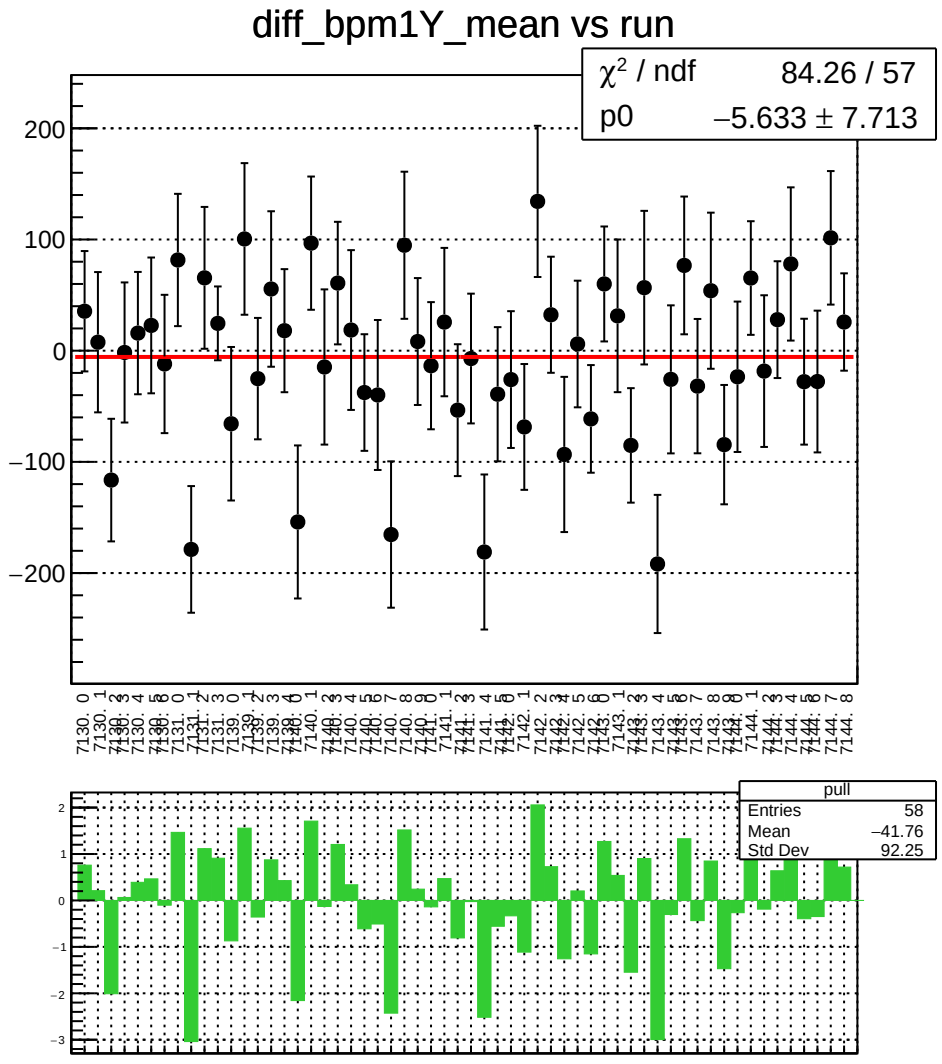

pull1D
Entries 58
Mean 0.00141
Std Dev 1.164

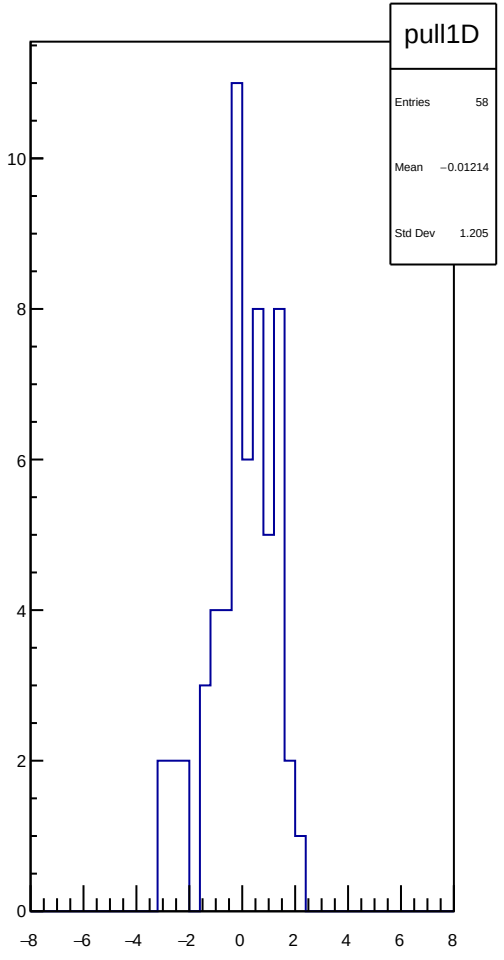

diff_bpm4ecY_rms vs run
χ² / ndf 1.283e+04 / 57
p0 6673 ± 6.377
22000
20000
18000
16000
14000
12000
10000
8000
6000

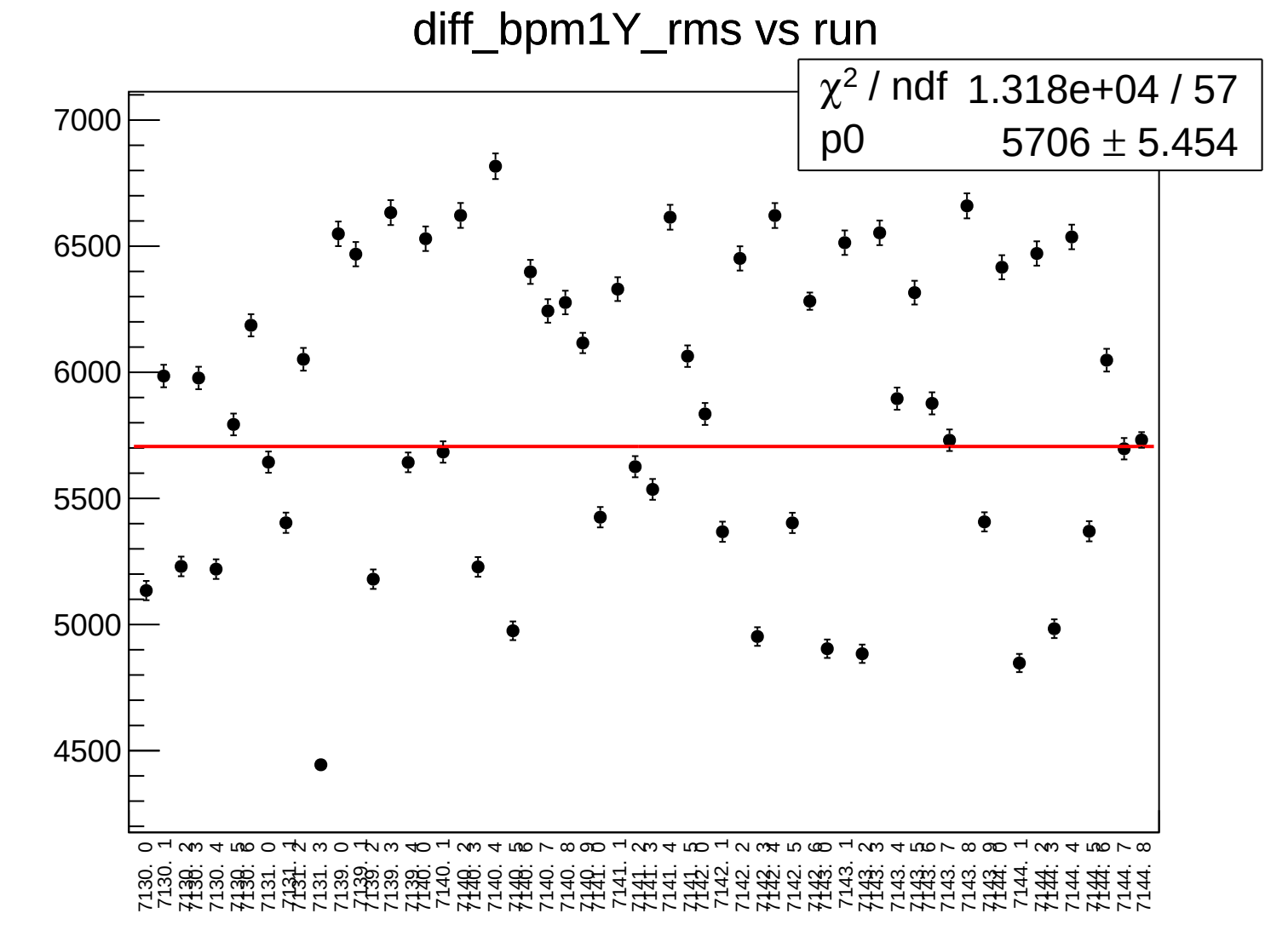

diff_bpm1X_mean vs run
χ² / ndf 60.76 / 57
p0 26.68 ± 11.92
pull
Entries 58
Mean 309.3
Std Dev 279.1

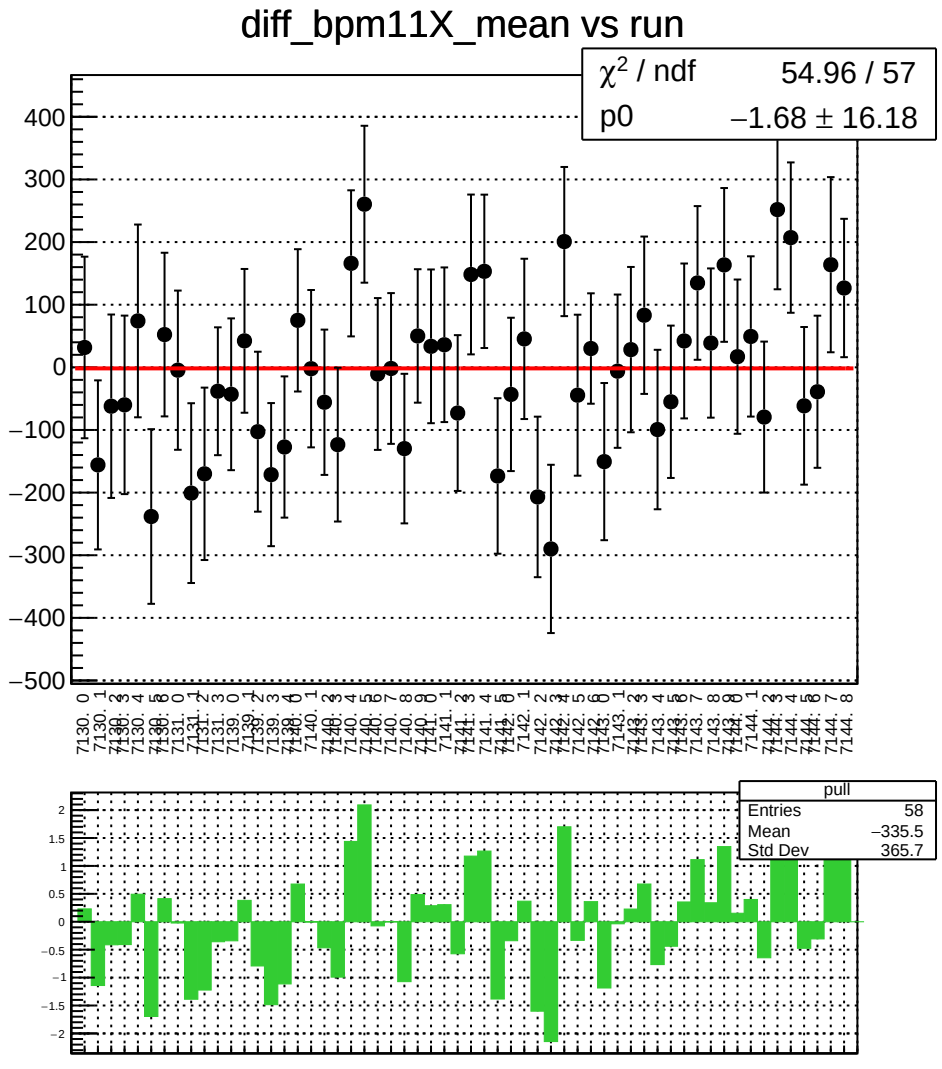

pull1D
Entries 58
Mean −0.02055
Std Dev 1.023

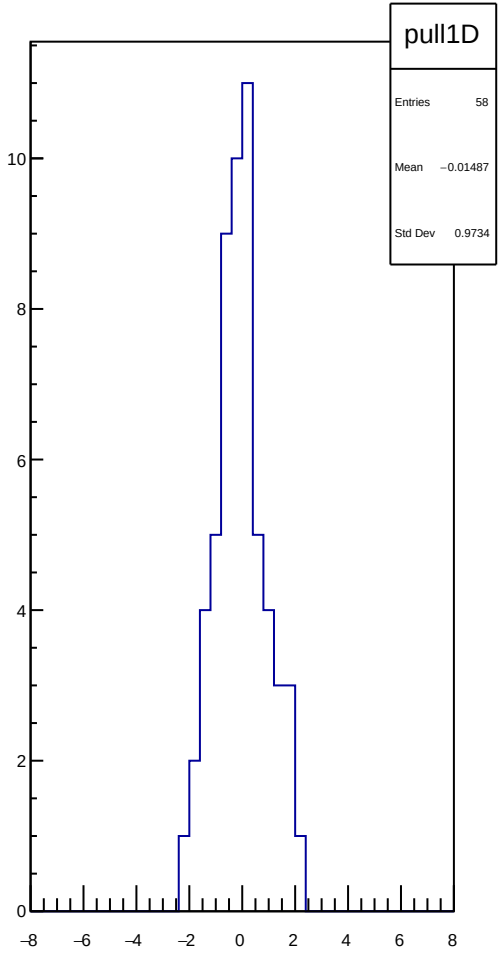

diff_bpm1X_rms vs run
χ² / ndf 2010 / 57
p0 8861 ± 8.426
9800
9600
9400
9200
9000
8800
8600
8400
8200

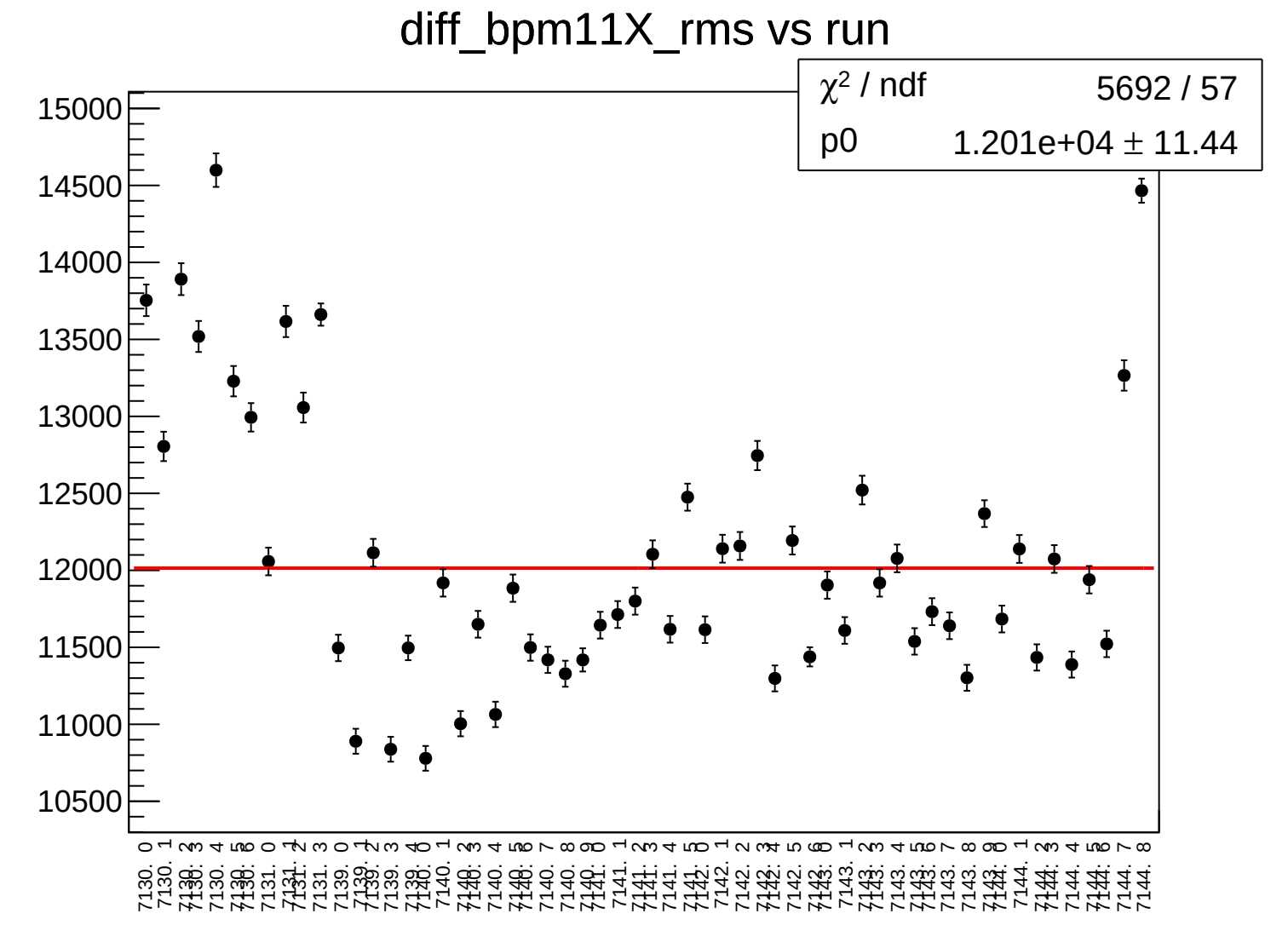

diff_bpm1Y_mean vs run
χ^2 / ndf 84.26 / 57
p0 −5.633 ± 7.713
200
100
0
−100
−200
pull
Entries 58
Mean −41.76
Std Dev 92.25
2
1
0
−1
−2
−3

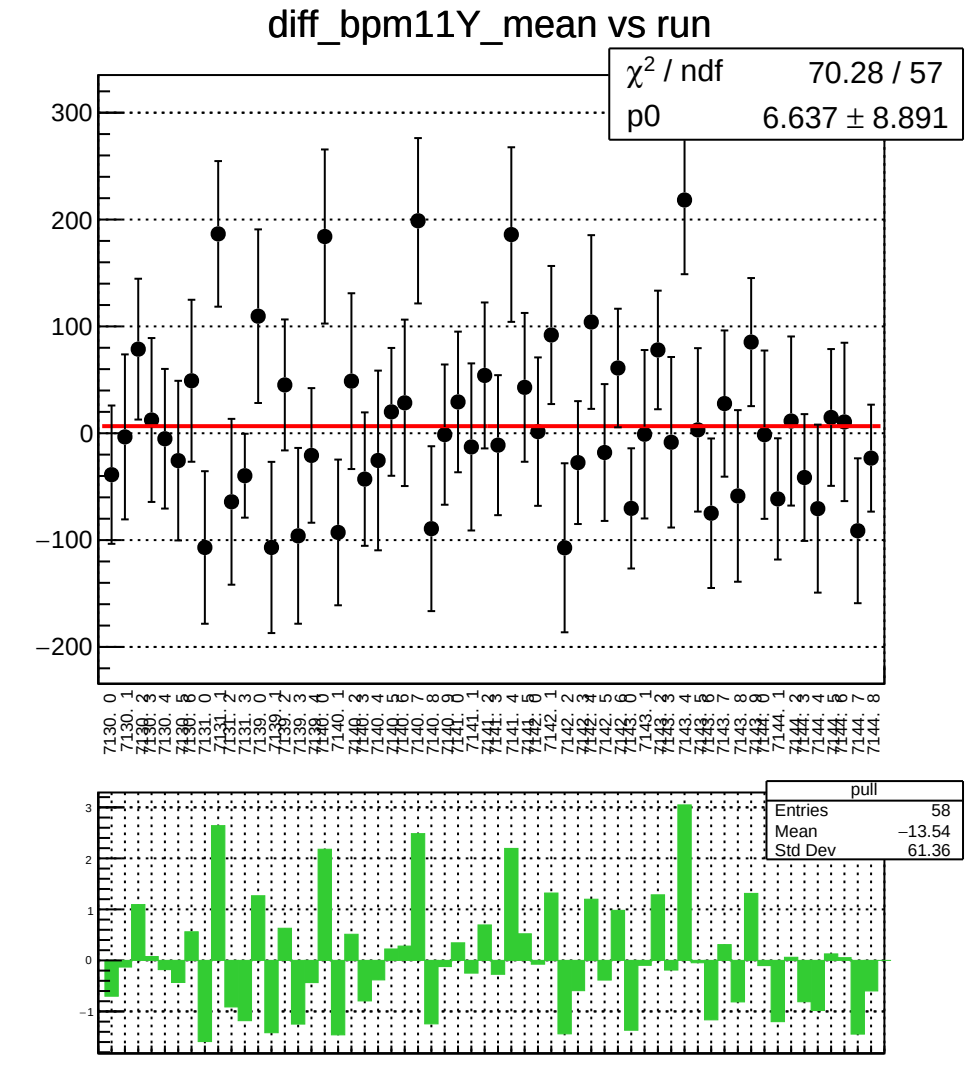

pull1D
Entries 58
Mean −0.01214
Std Dev 1.205
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

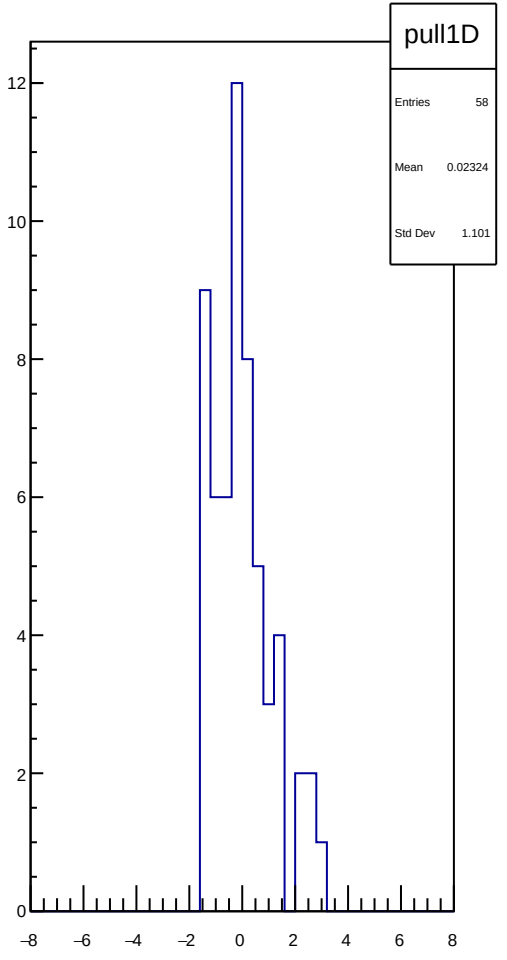

diff_bpm1Y_rms vs run
χ² / ndf 1.318e+04 / 57
p0 5706 ± 5.454
7000
6500
6000
5500
5000
4500

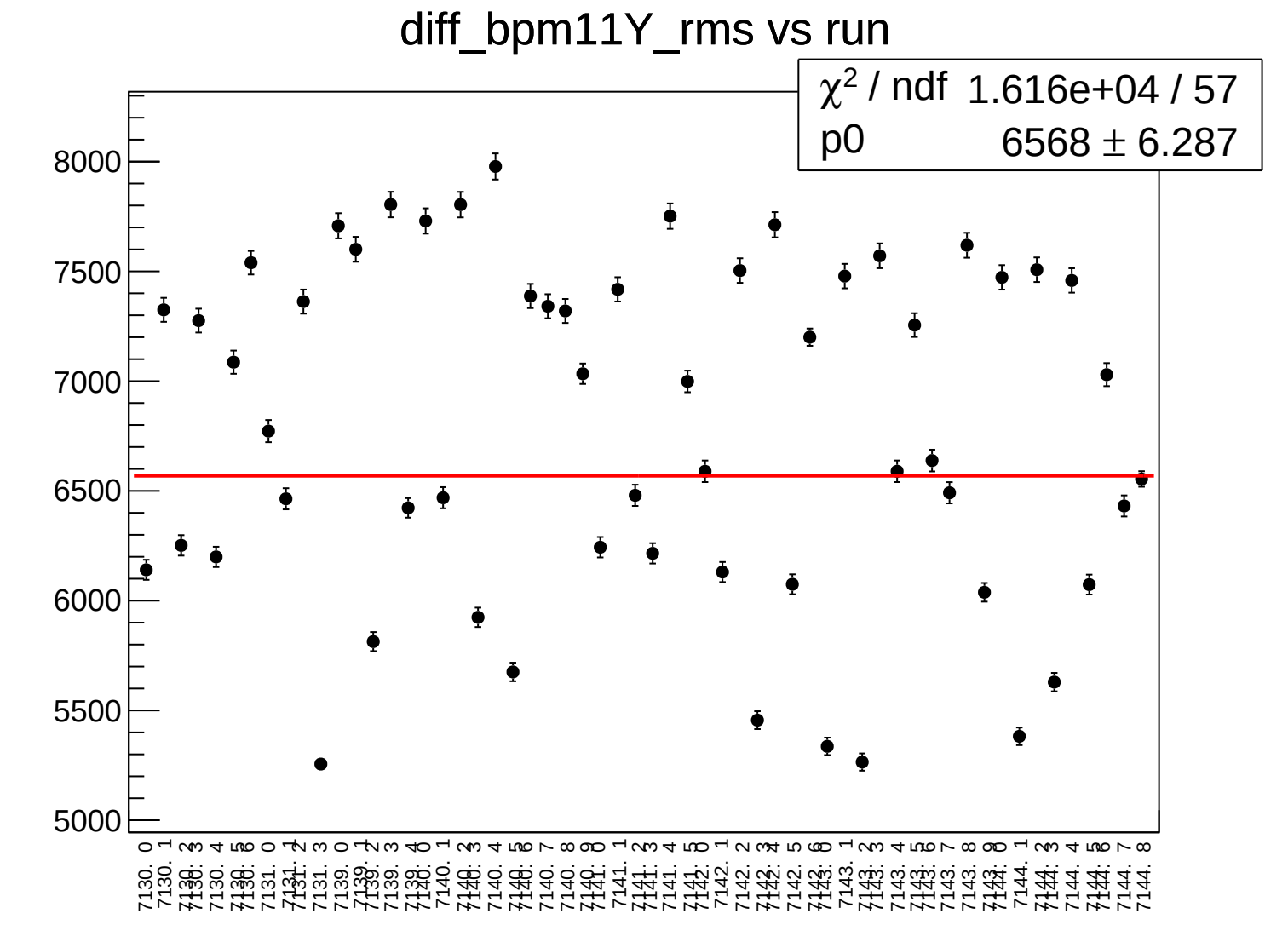

diff_bpm11X_mean vs run
χ^2 / ndf 54.96 / 57
p0 −1.68 ± 16.18
pull
Entries 58
Mean −335.5
Std Dev 365.7

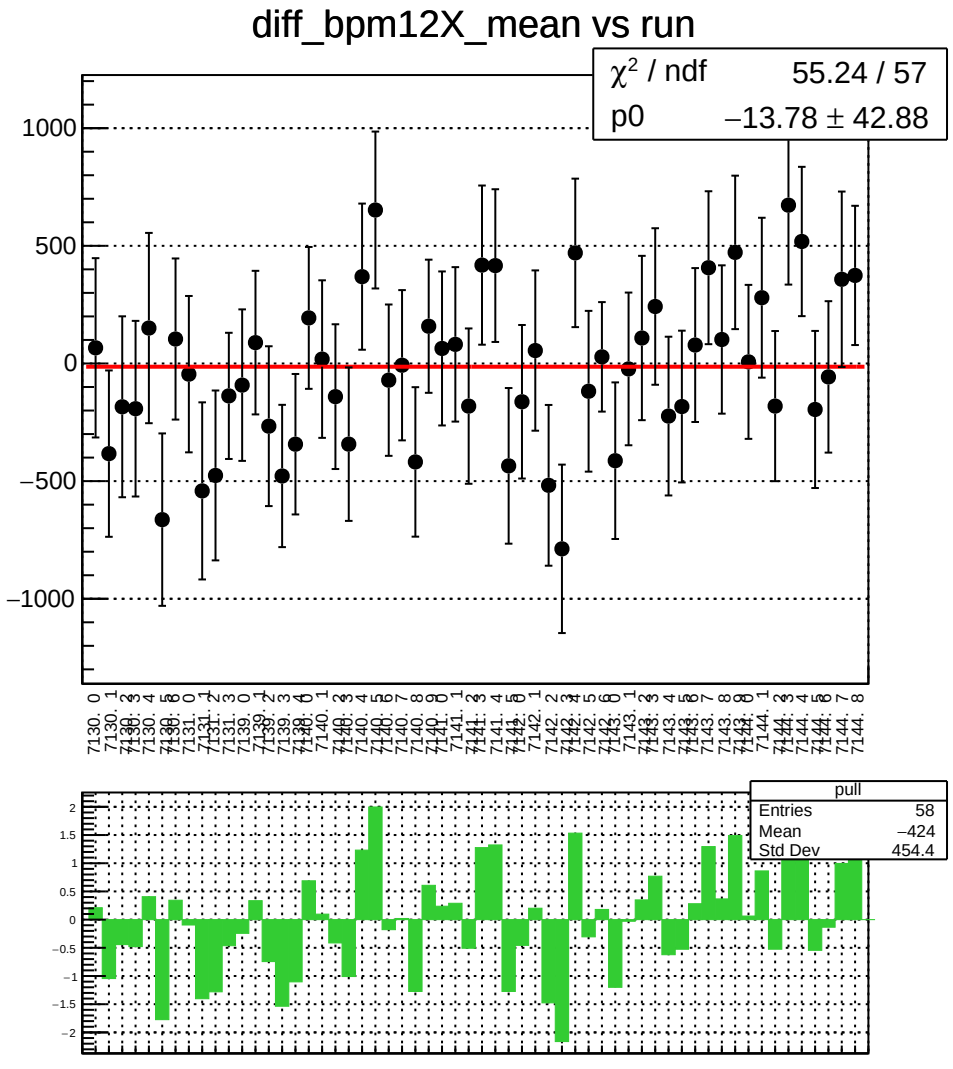

pull1D
Entries 58
Mean −0.01487
Std Dev 0.9734

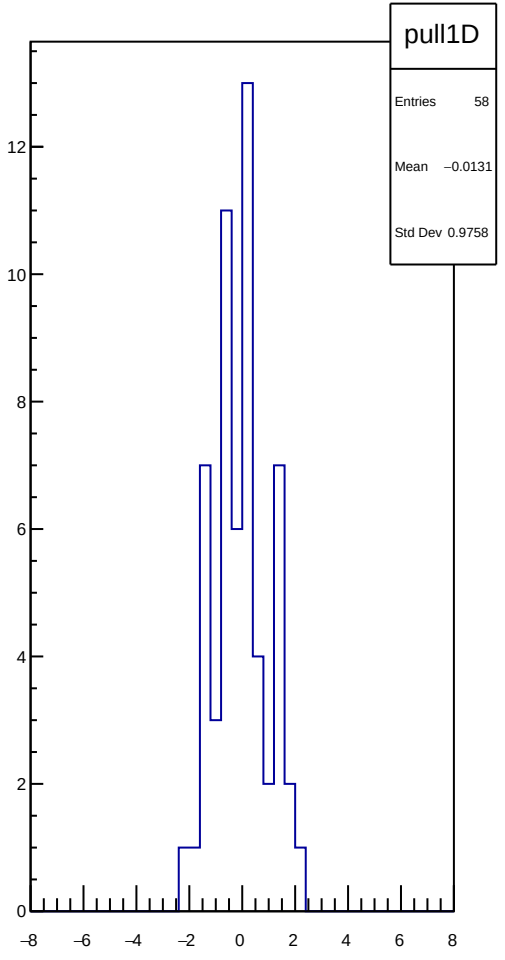

diff_bpm11X_rms vs run
χ² / ndf 5692 / 57
p0 1.201e+04 ± 11.44
15000
14500
14000
13500
13000
12500
12000
11500
11000
10500

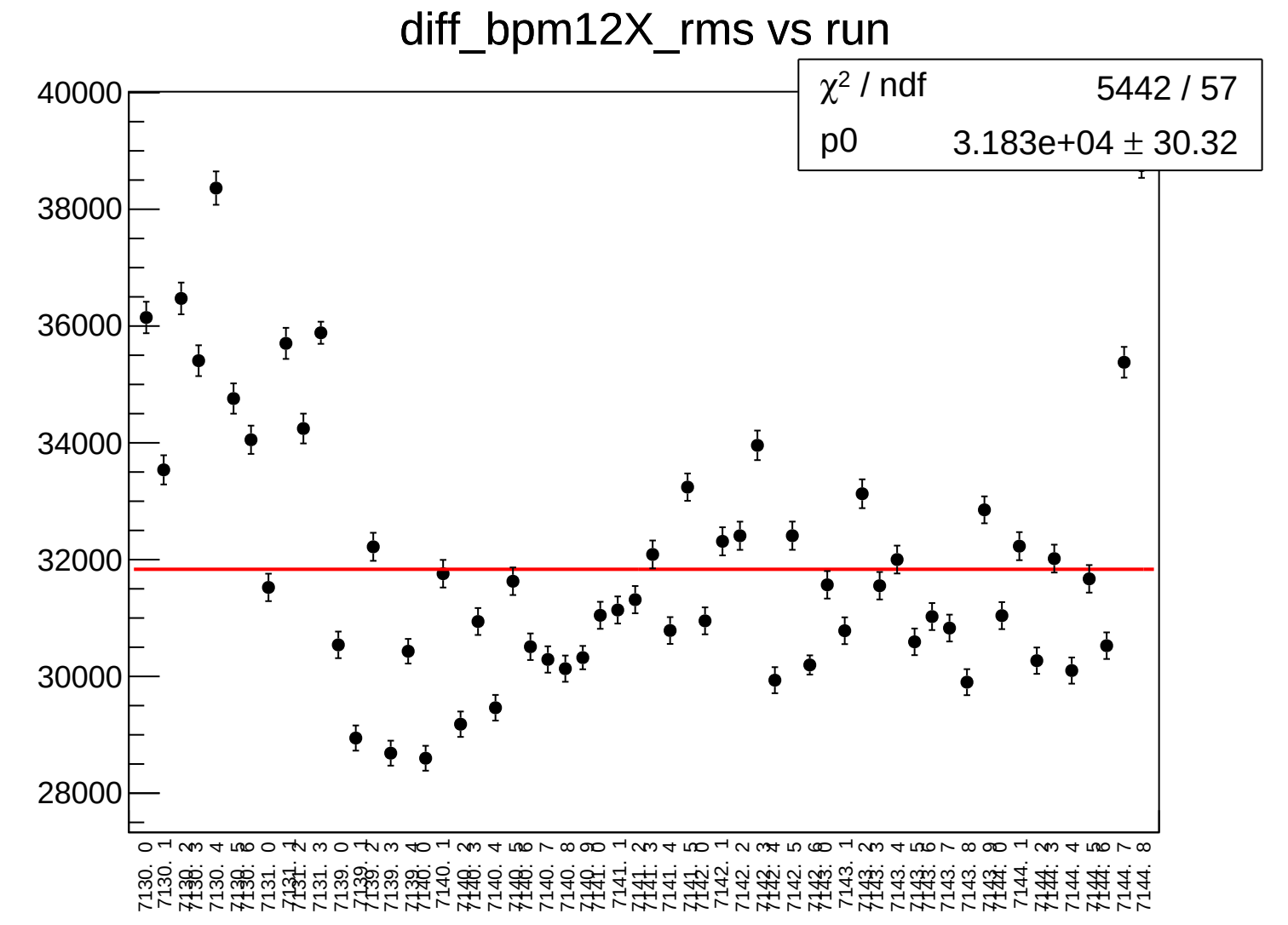

diff_bpm11Y_mean vs run
χ² / ndf 70.28 / 57
p0 6.637 ± 8.891
pull
Entries 58
Mean −13.54
Std Dev 61.36

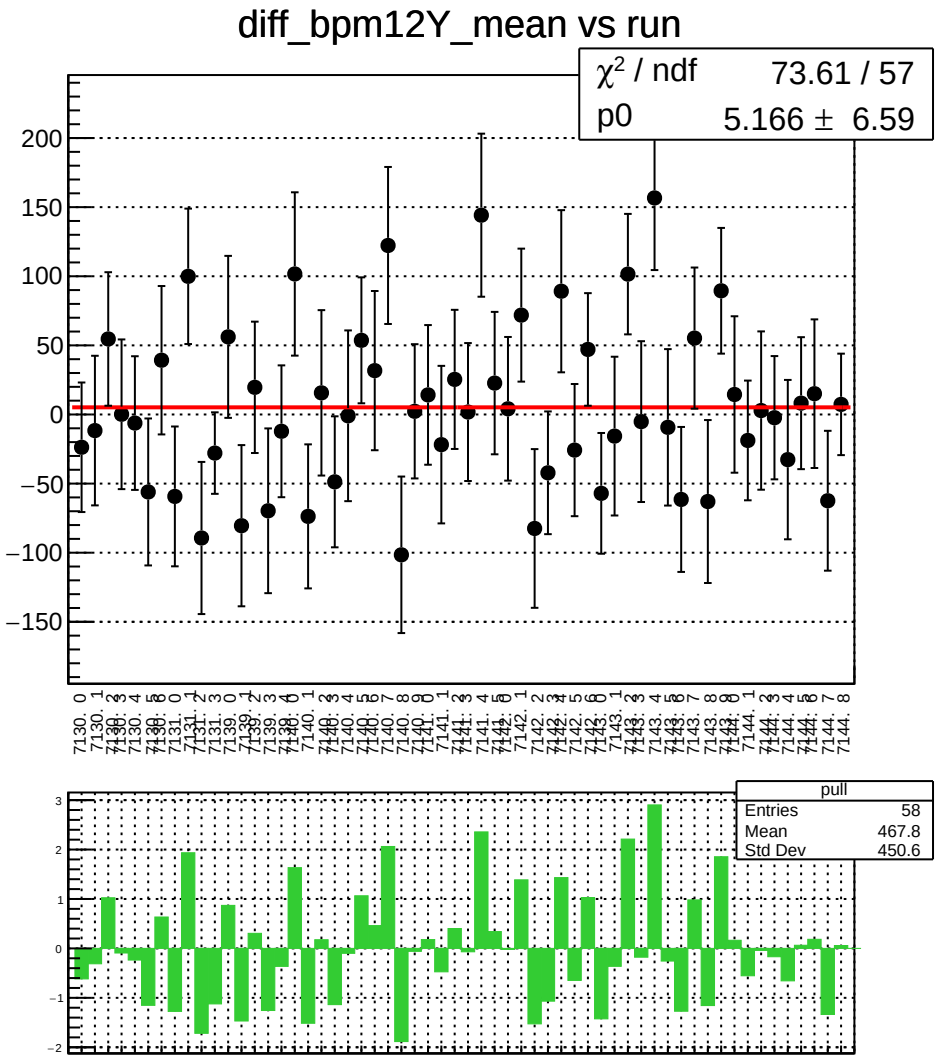

pull1D
Entries 58
Mean 0.02324
Std Dev 1.101

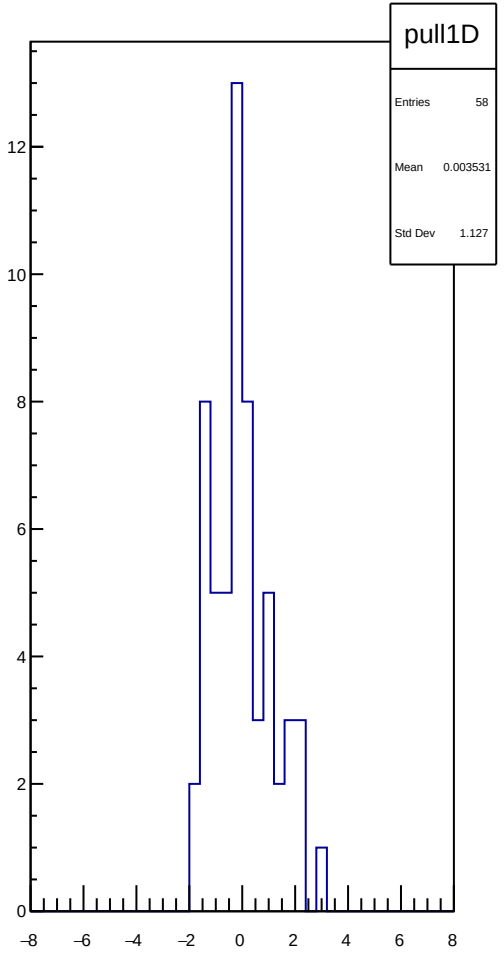

diff_bpm11Y_rms vs run
χ² / ndf 1.616e+04 / 57
p0 6568 ± 6.287
8000
7500
7000
6500
6000
5500
5000

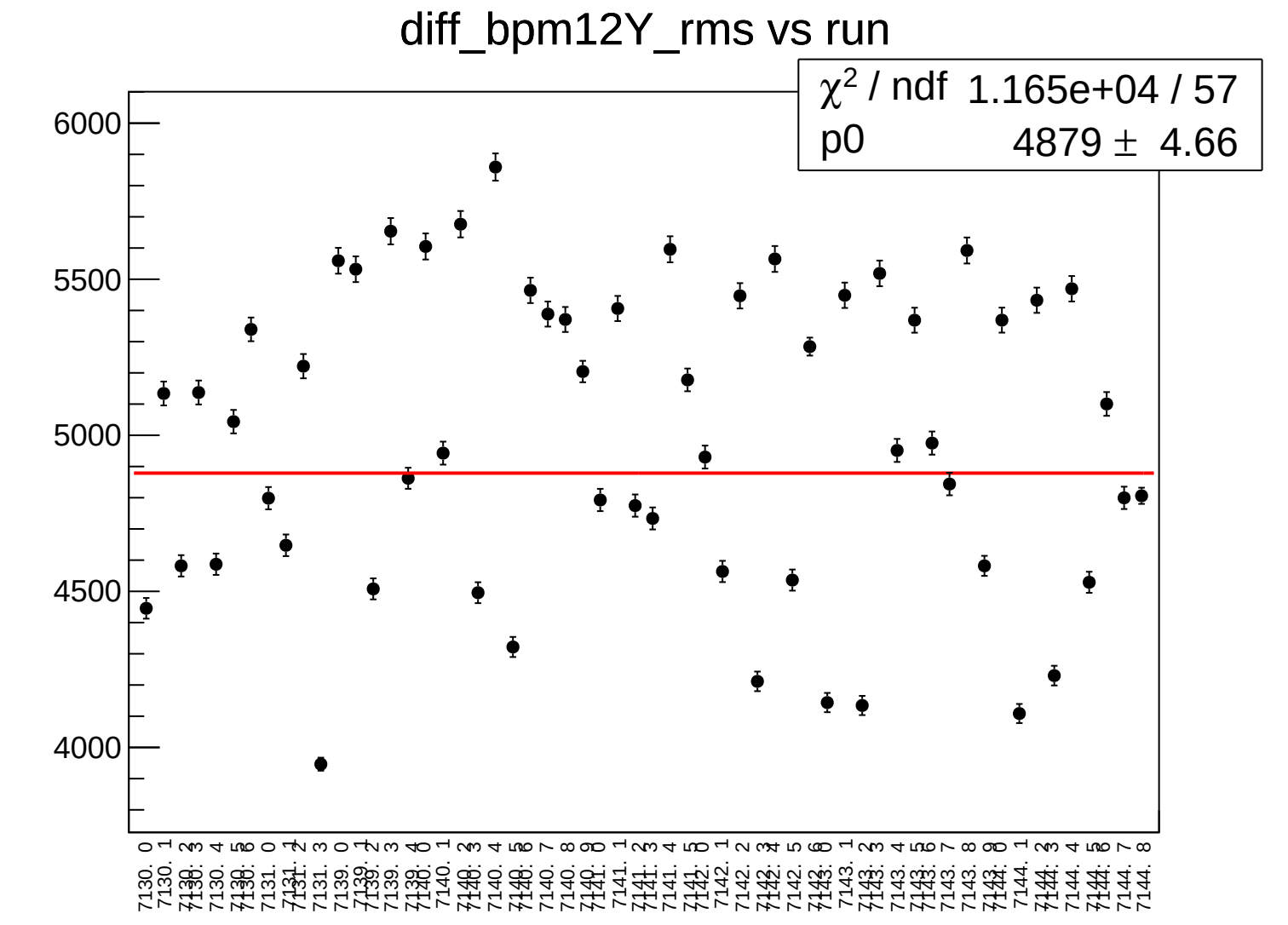

diff_bpm12X_mean vs run
χ² / ndf 55.24 / 57
p0 −13.78 ± 42.88
1000
500
0
−500
−1000
pull
Entries 58
Mean −424
Std Dev 454.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

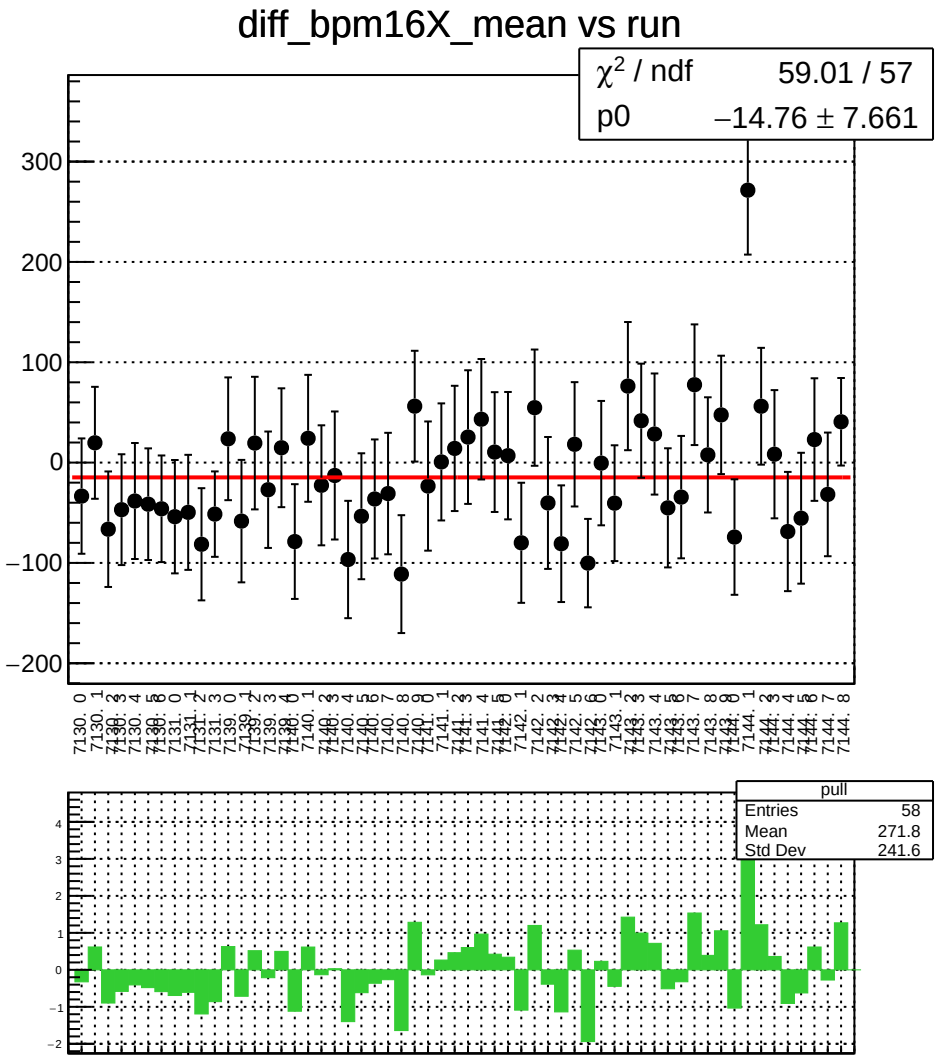

pull1D
Entries 58
Mean −0.0131
Std Dev 0.9758
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

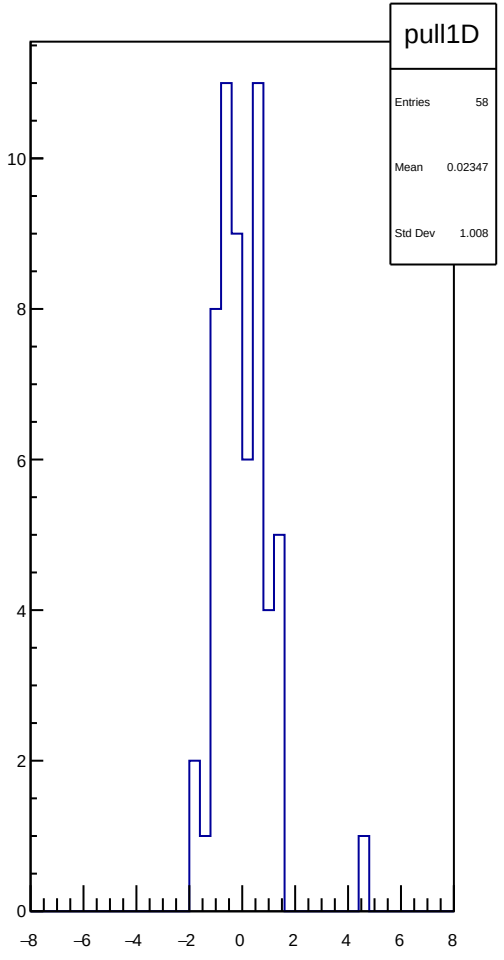

diff_bpm12X_rms vs run
χ² / ndf 5442 / 57
p0 3.183e+04 ± 30.32
40000
38000
36000
34000
32000
30000
28000

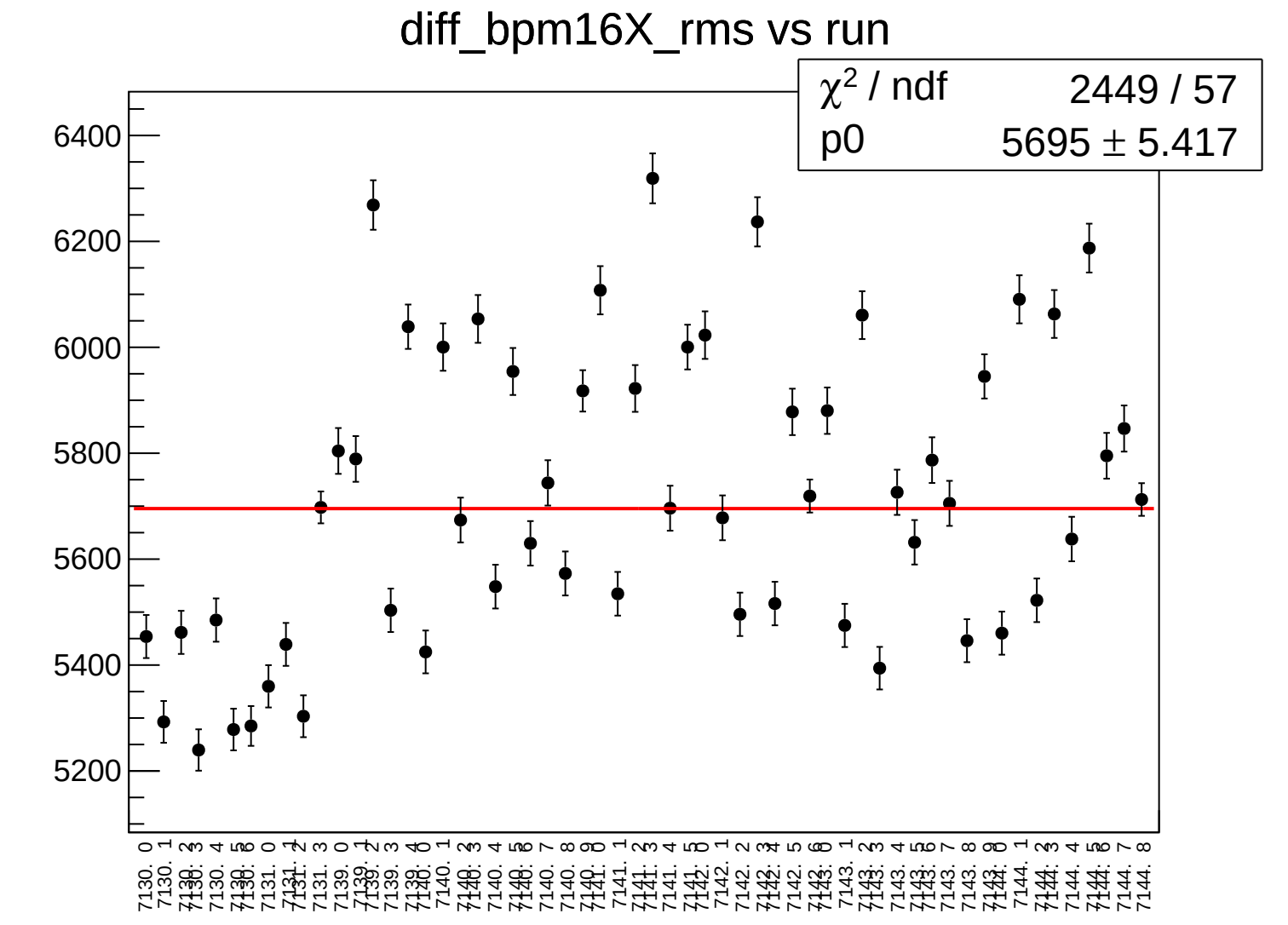

diff_bpm12Y_mean vs run
χ² / ndf 73.61 / 57
p0 5.166 ± 6.59
pull
Entries 58
Mean 467.8
Std Dev 450.6

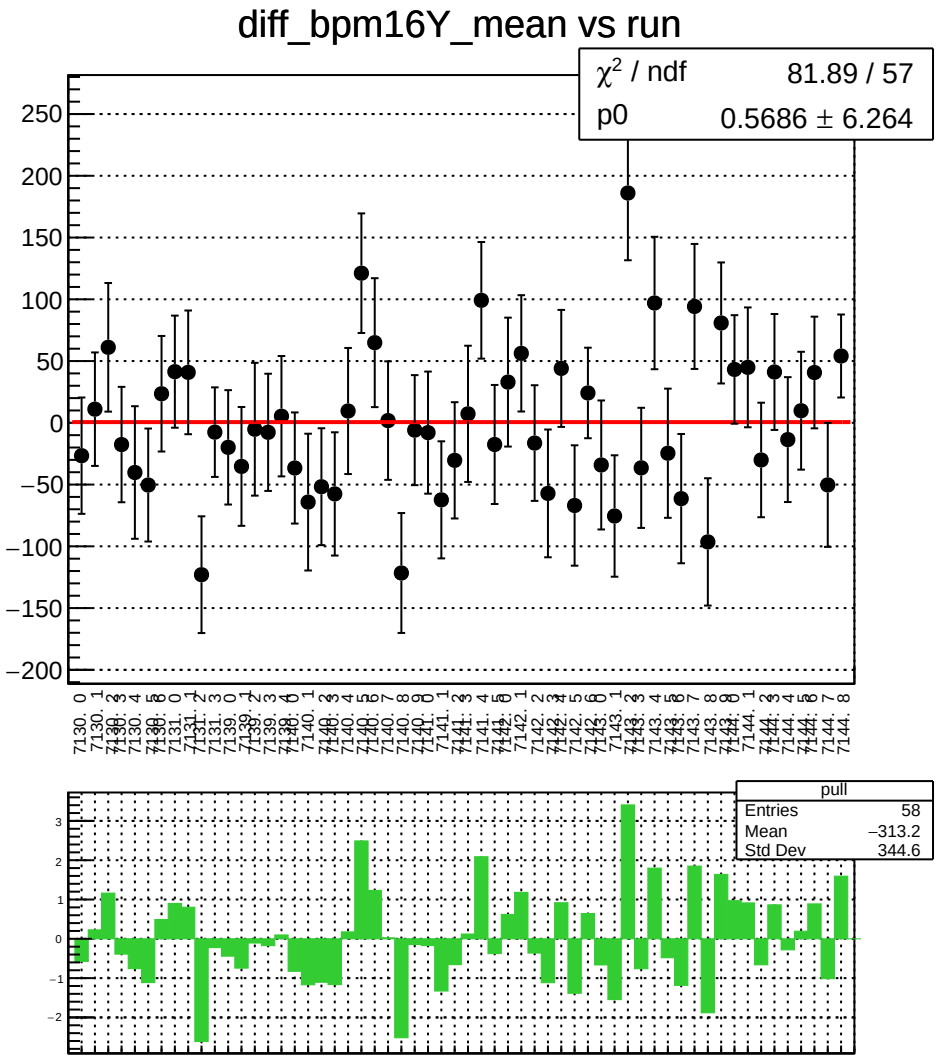

pull1D
Entries 58
Mean 0.003531
Std Dev 1.127

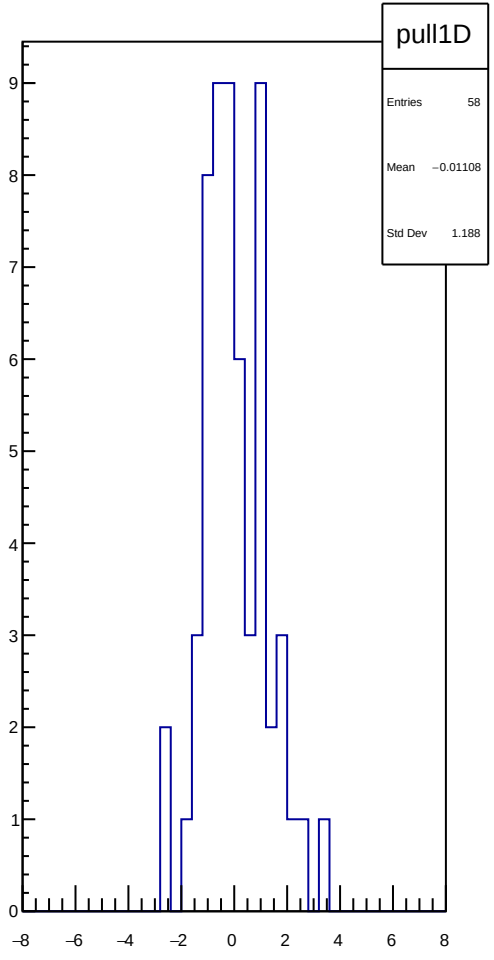

diff_bpm12Y_rms vs run
χ² / ndf 1.165e+04 / 57
p0 4879 ± 4.66
6000
5500
5000
4500
4000
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

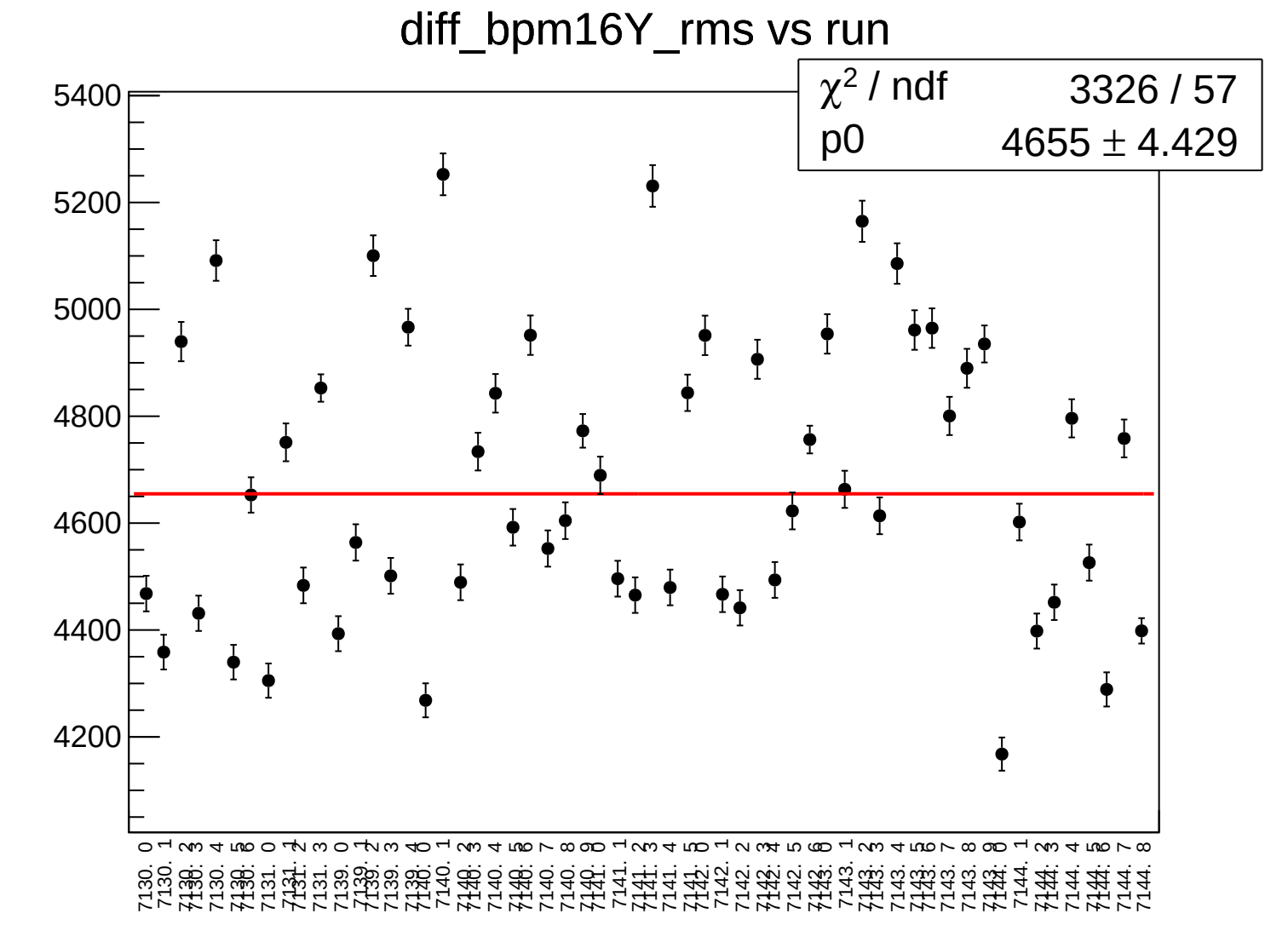

diff_bpm16X_mean vs run
χ² / ndf 59.01 / 57
p0 −14.76 ± 7.661
pull
Entries 58
Mean 271.8
Std Dev 241.6

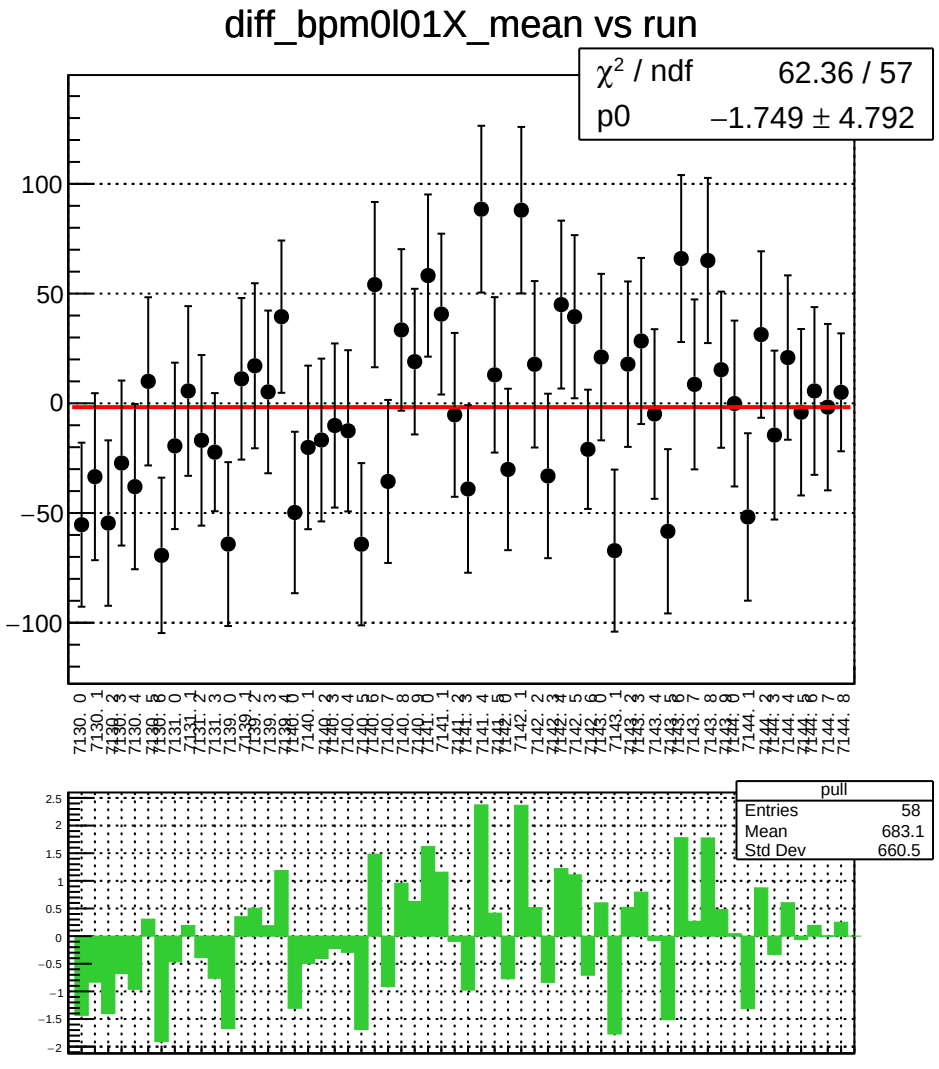

pull1D
Entries 58
Mean 0.02347
Std Dev 1.008

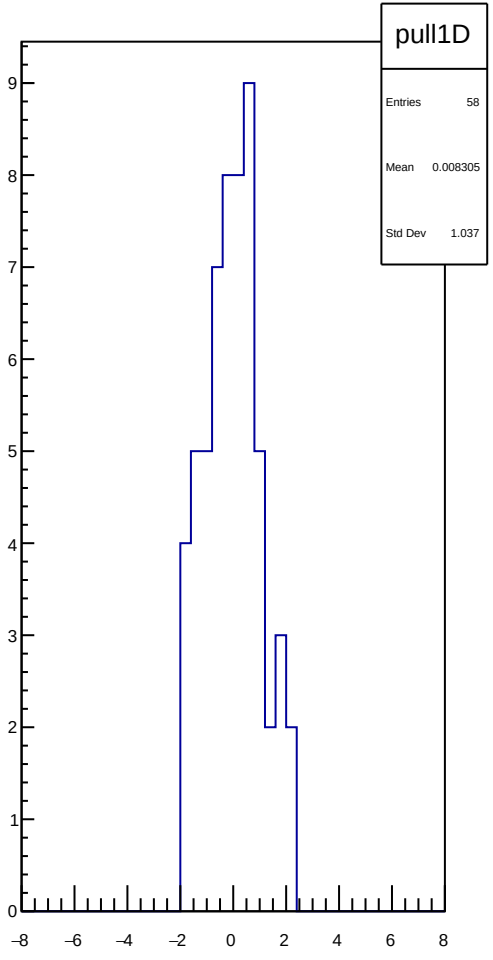

diff_bpm16X_rms vs run
χ² / ndf 2449 / 57
p0 5695 ± 5.417
6400
6200
6000
5800
5600
5400
5200
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

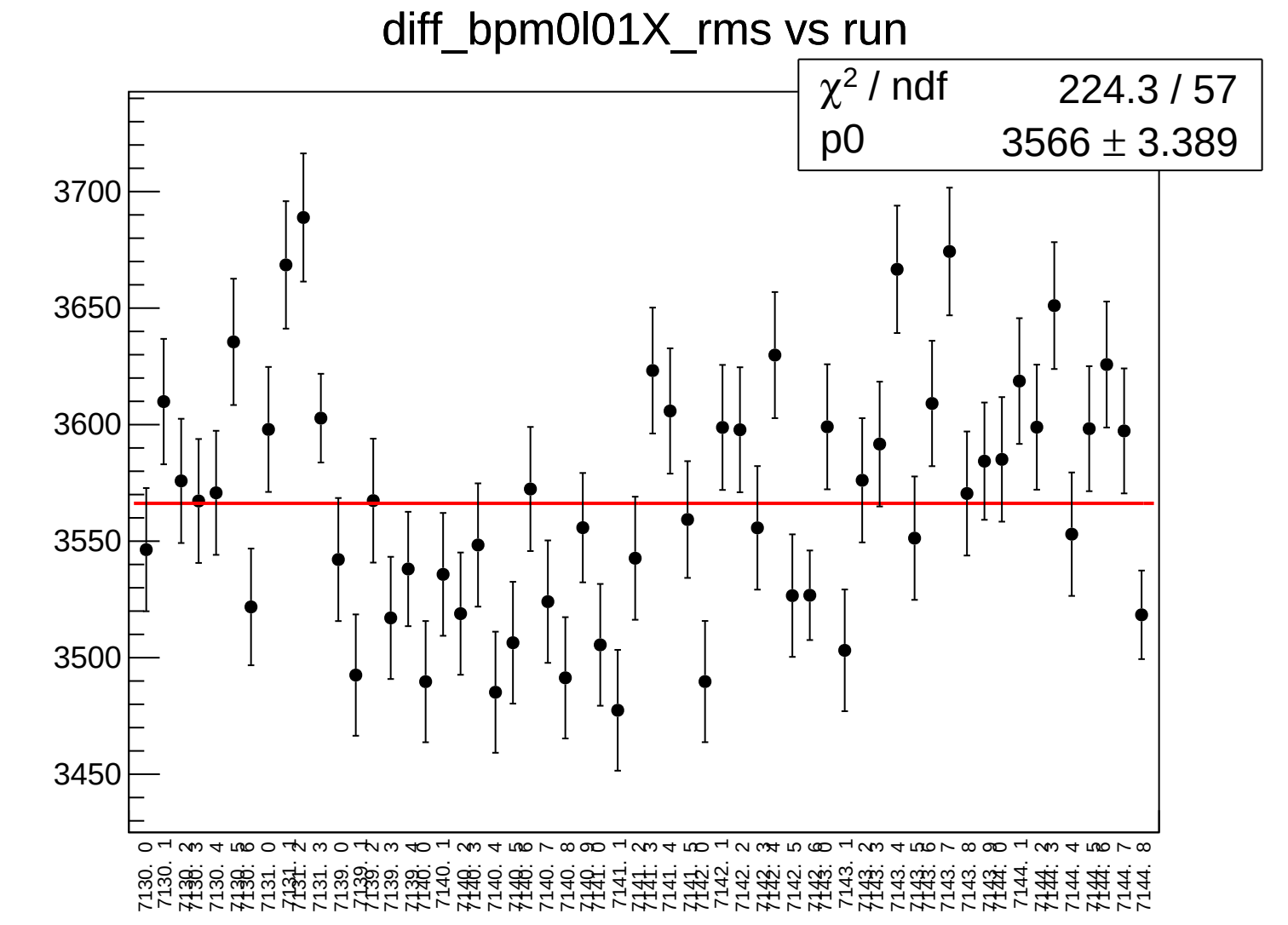

diff_bpm16Y_mean vs run
χ² / ndf 81.89 / 57
p0 0.5686 ± 6.264
pull
Entries 58
Mean −313.2
Std Dev 344.6

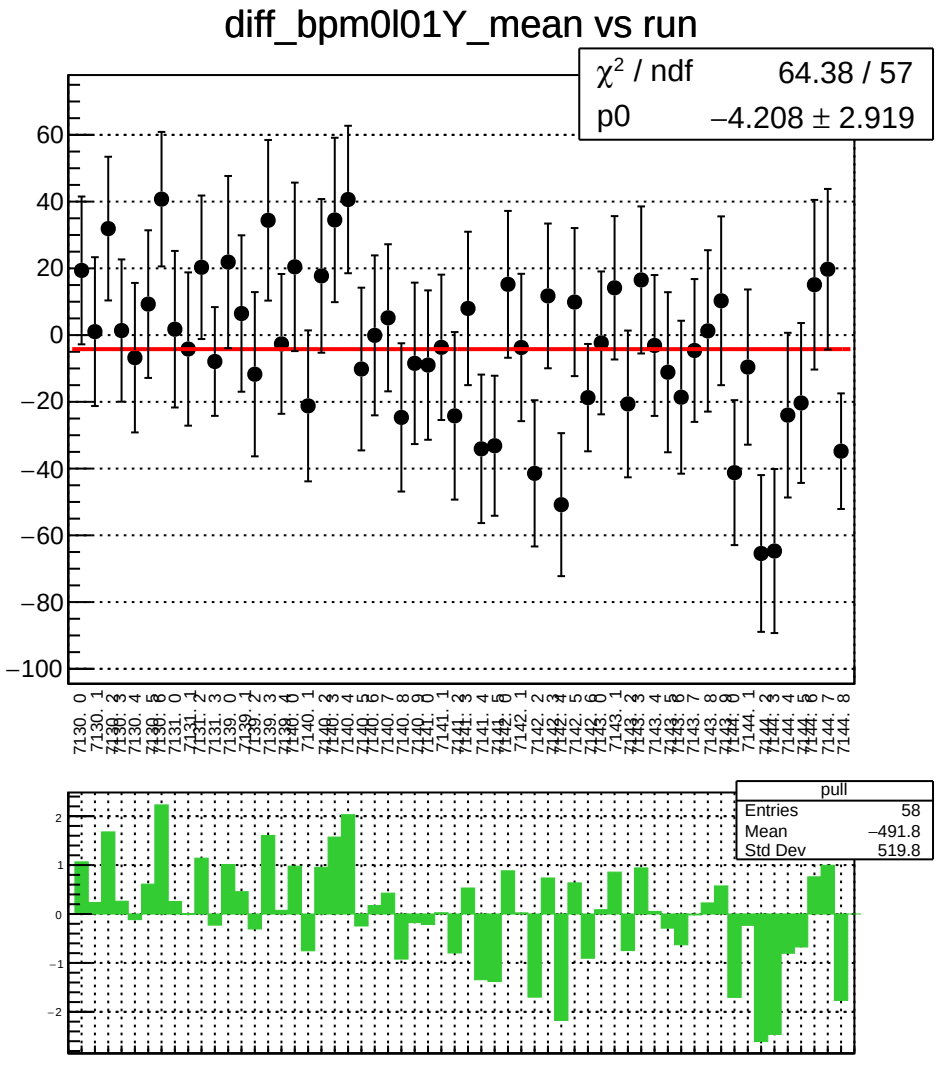

pull1D
Entries 58
Mean −0.01108
Std Dev 1.188

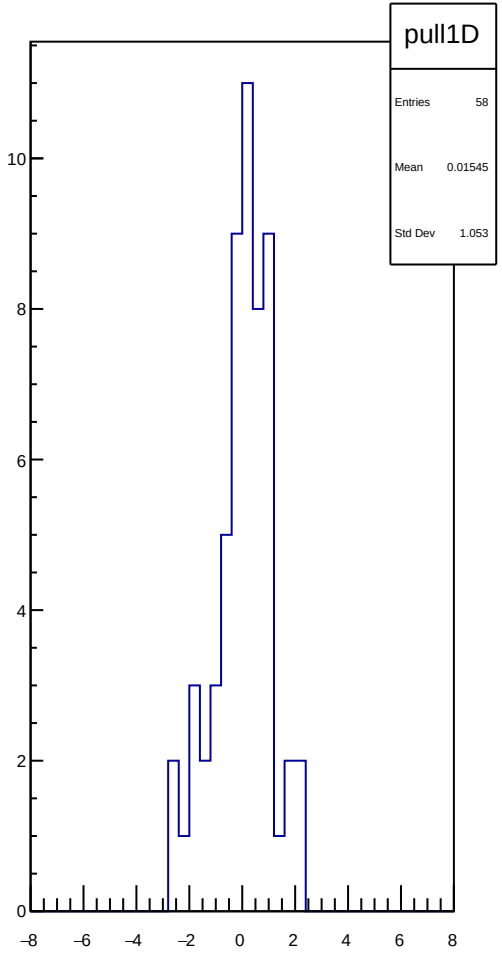

diff_bpm16Y_rms vs run
χ² / ndf 3326 / 57
p0 4655 ± 4.429
5400
5200
5000
4800
4600
4400
4200

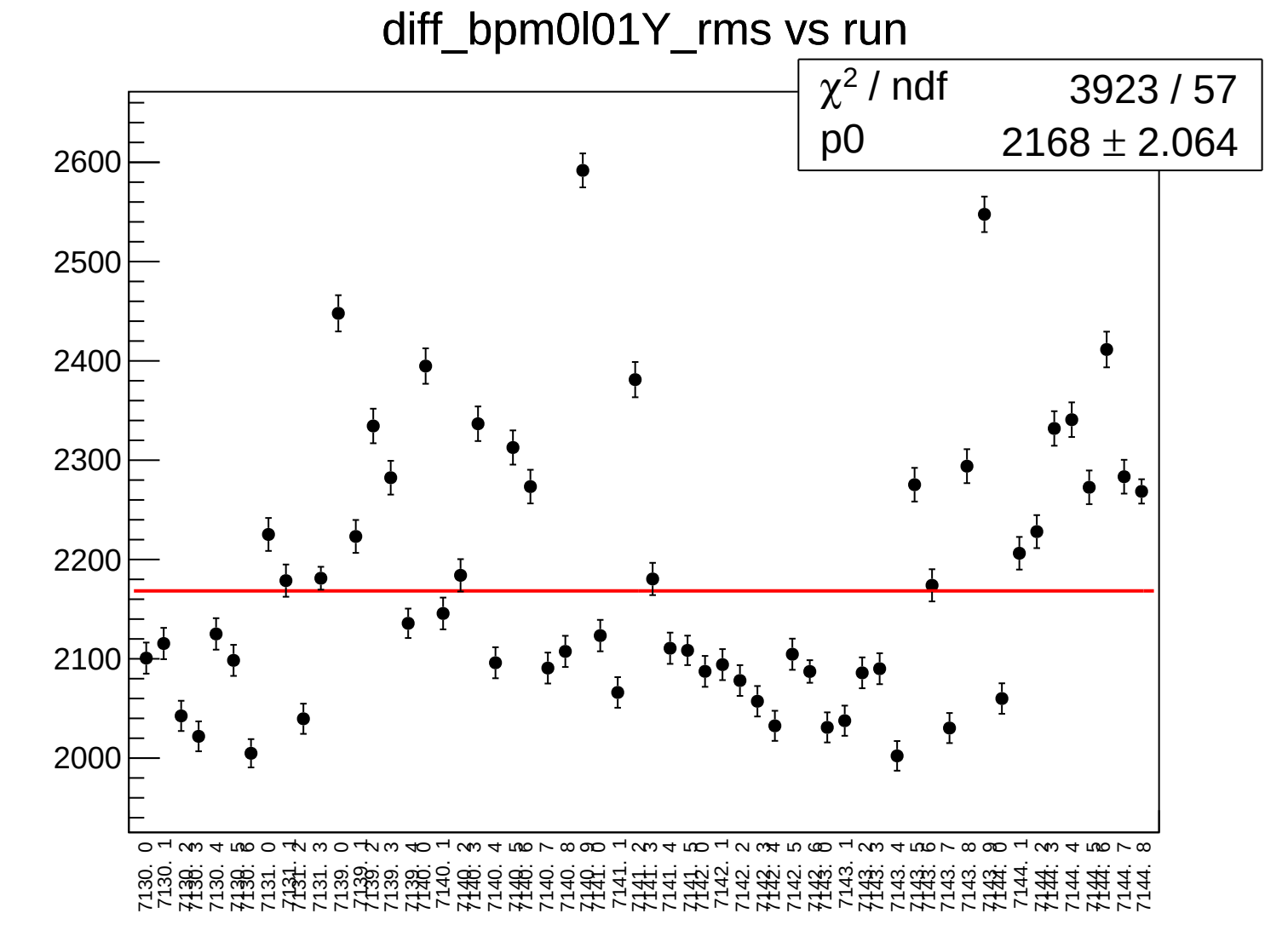

diff_bpm0l01X_mean vs run
χ² / ndf 62.36 / 57
p0 −1.749 ± 4.792
pull
Entries 58
Mean 683.1
Std Dev 660.5

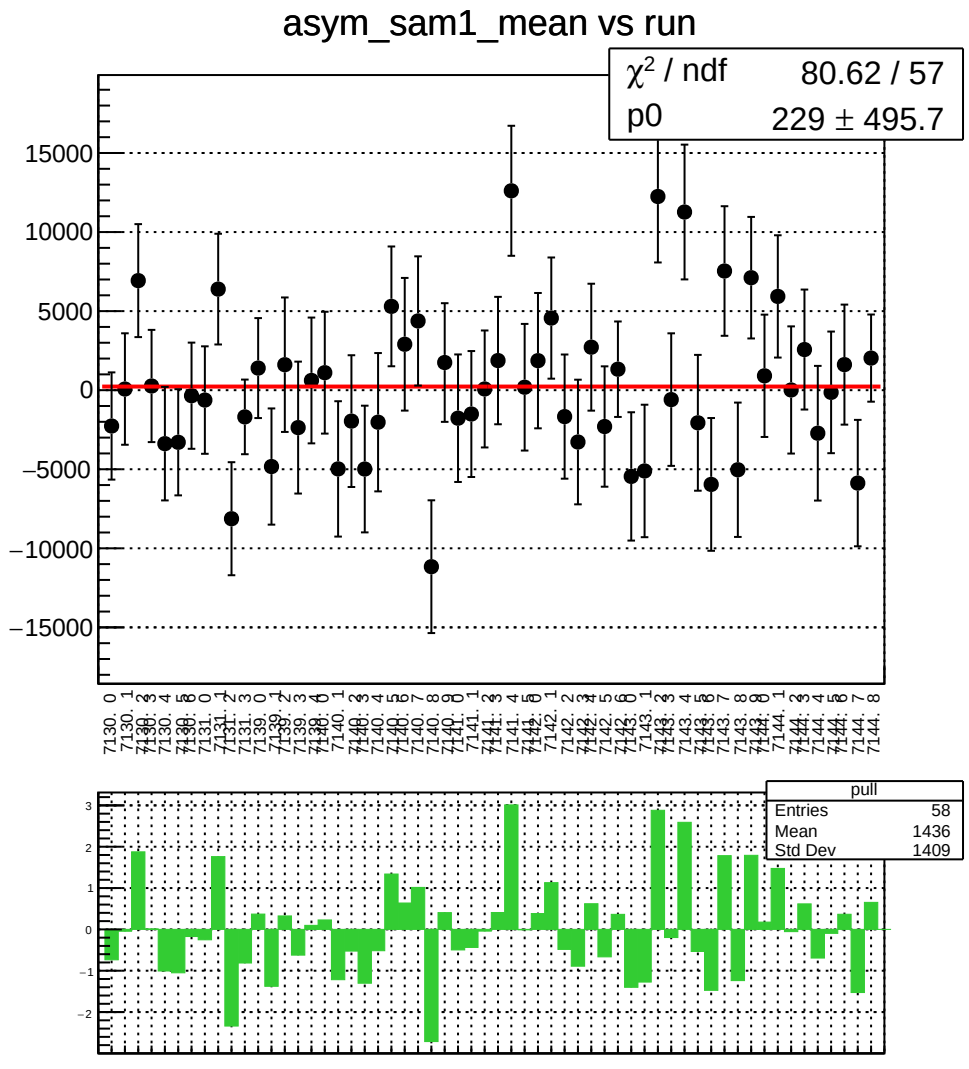

pull1D
Entries 58
Mean 0.008305
Std Dev 1.037

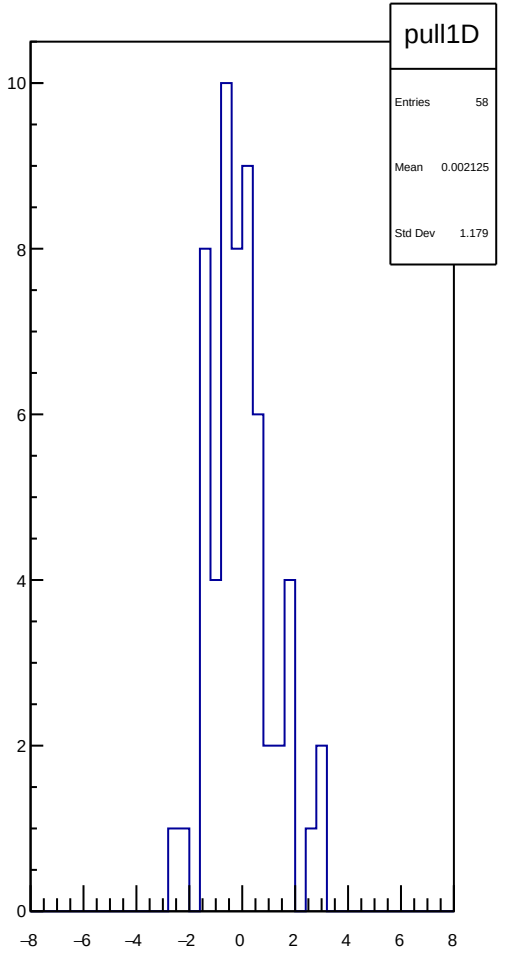

diff_bpm0l01X_rms vs run
χ² / ndf 224.3 / 57
p0 3566 ± 3.389
3700
3650
3600
3550
3500
3450

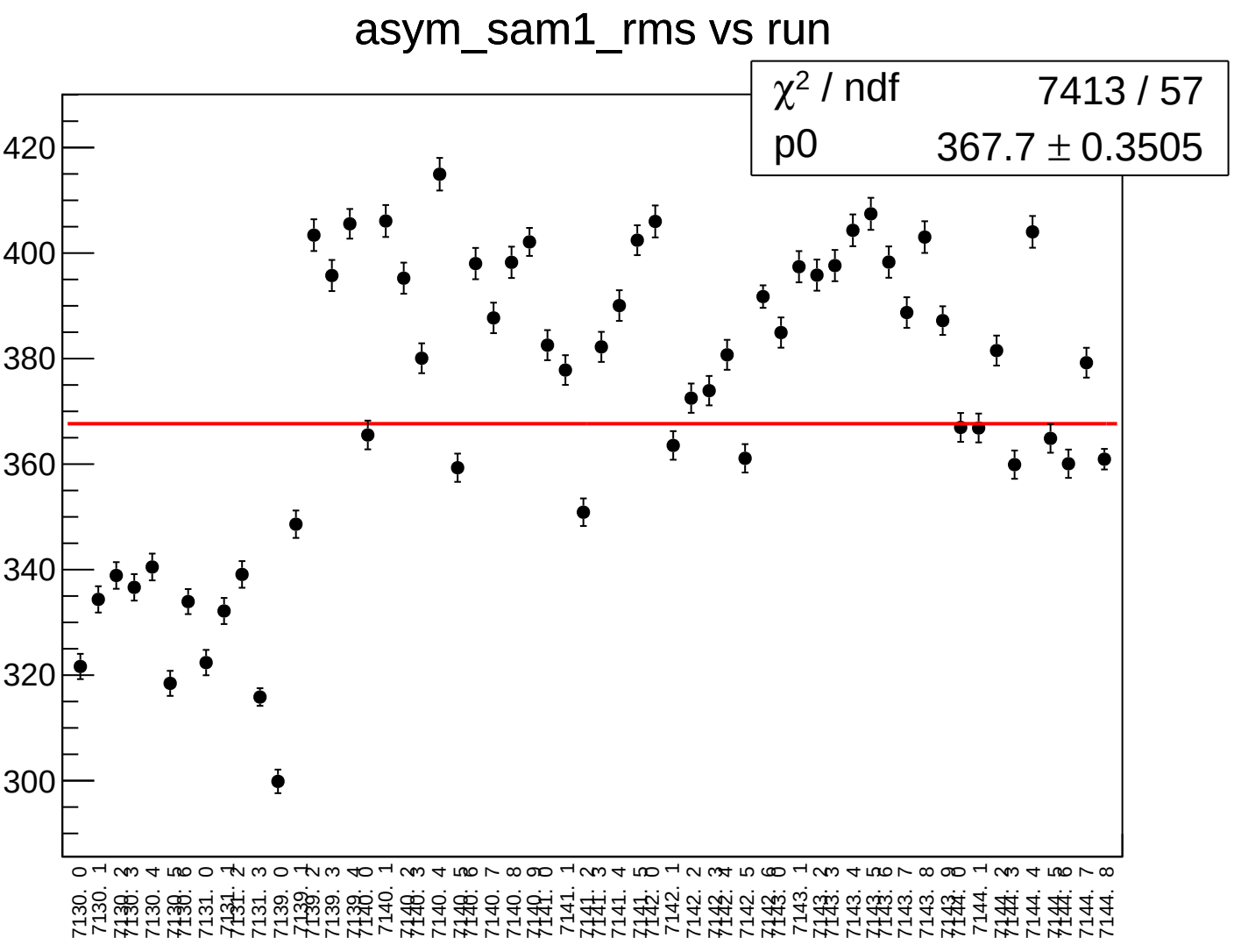

diff_bpm0l01Y_mean vs run
χ^2 / ndf 64.38 / 57
p0 −4.208 ± 2.919
pull
Entries 58
Mean −491.8
Std Dev 519.8

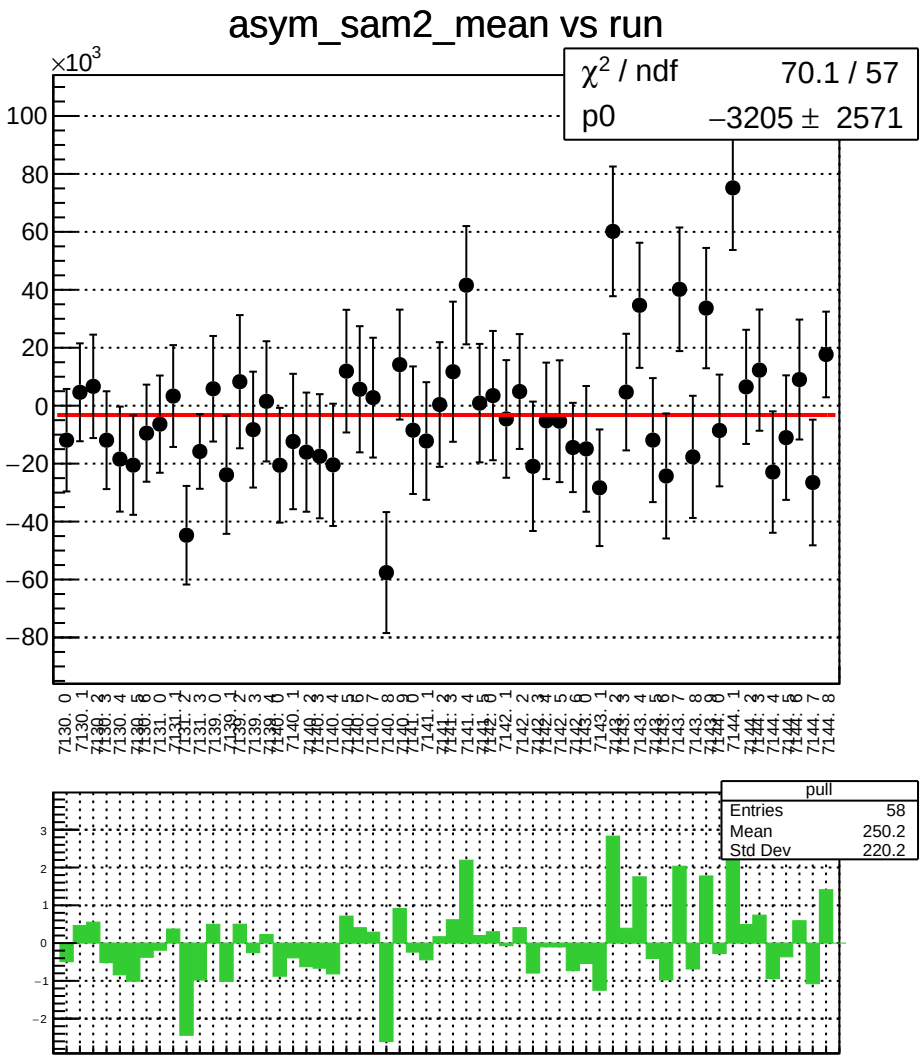

pull1D
Entries 58
Mean 0.01545
Std Dev 1.053

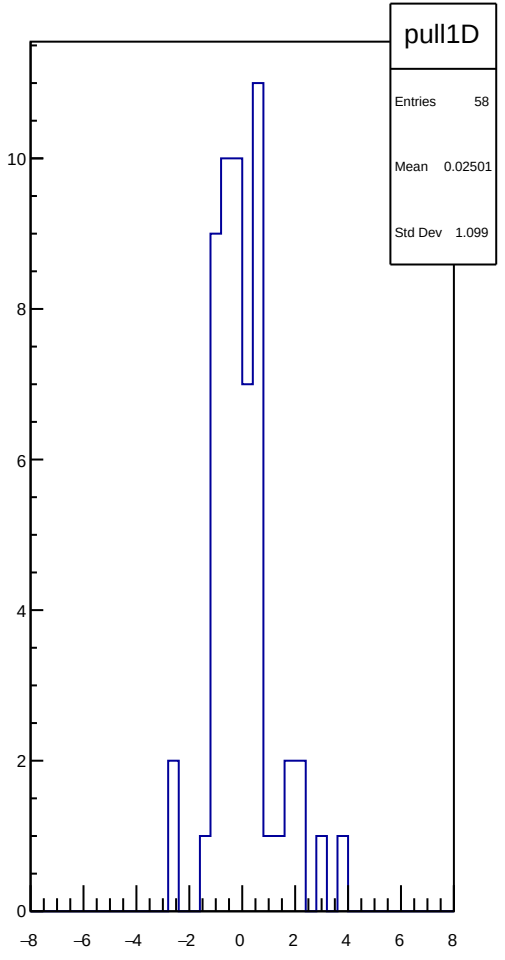

diff_bpm0l01Y_rms vs run
χ² / ndf 3923 / 57
p0 2168 ± 2.064
2600
2500
2400
2300
2200
2100
2000

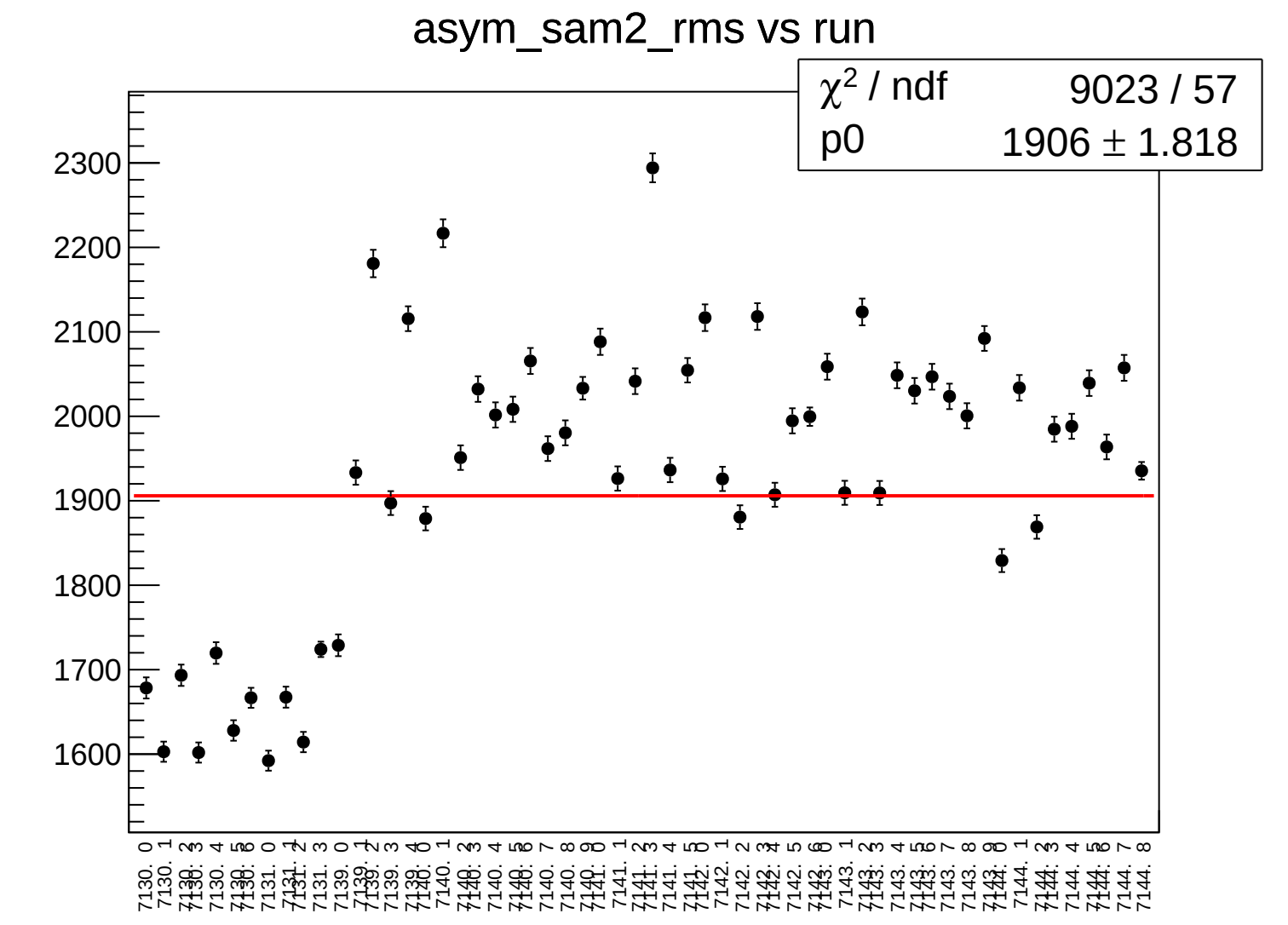

asym_sam1_mean vs run
χ² / ndf 80.62 / 57
p0 229 ± 495.7
pull
Entries 58
Mean 1436
Std Dev 1409

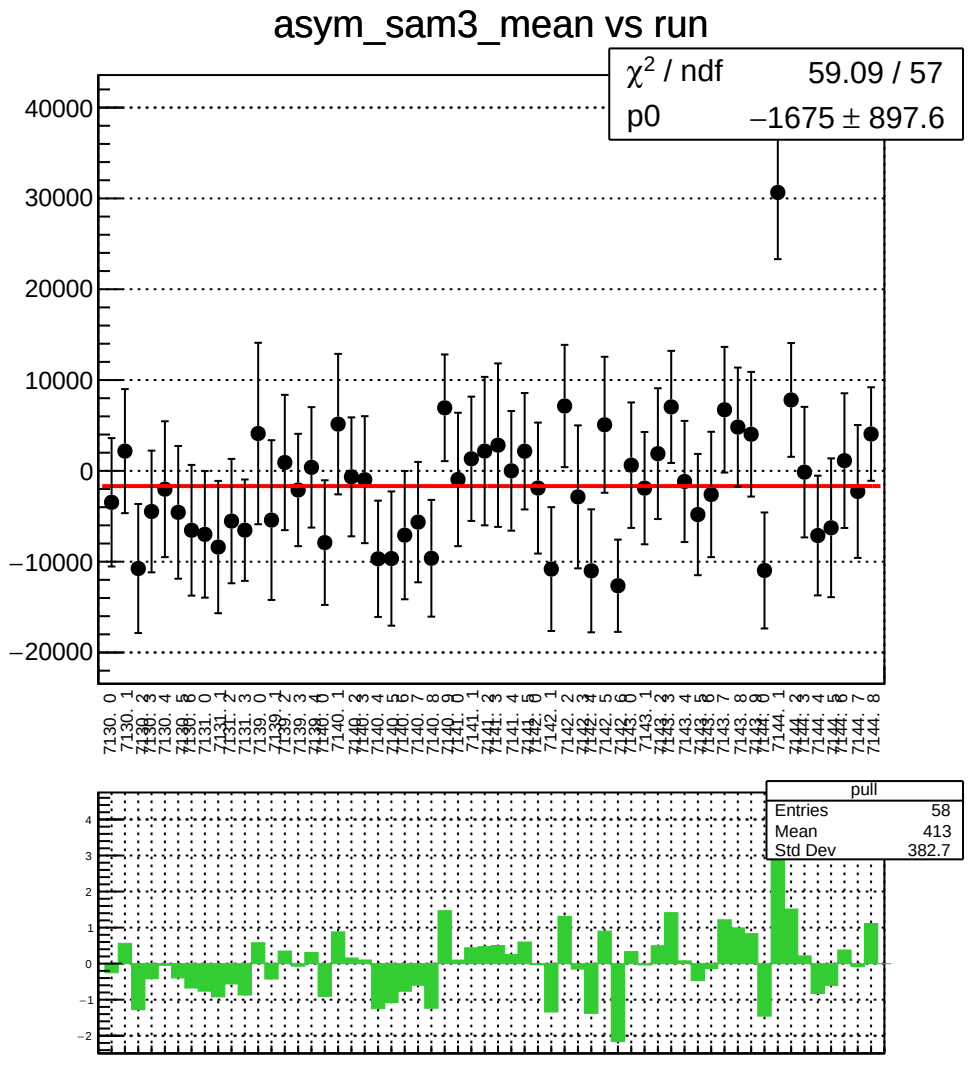

pull1D
Entries 58
Mean 0.002125
Std Dev 1.179

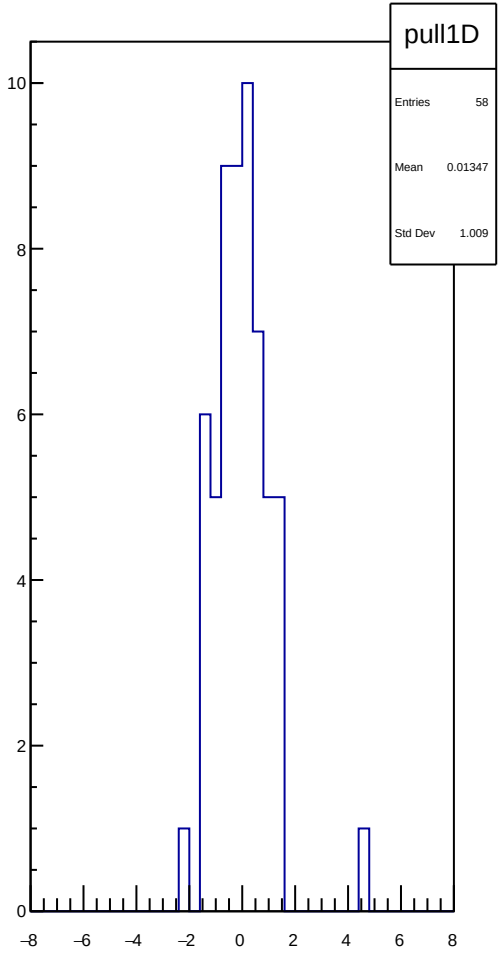

asym_sam1_rms vs run
χ² / ndf 7413 / 57
p0 367.7 ± 0.3505
420
400
380
360
340
320
300

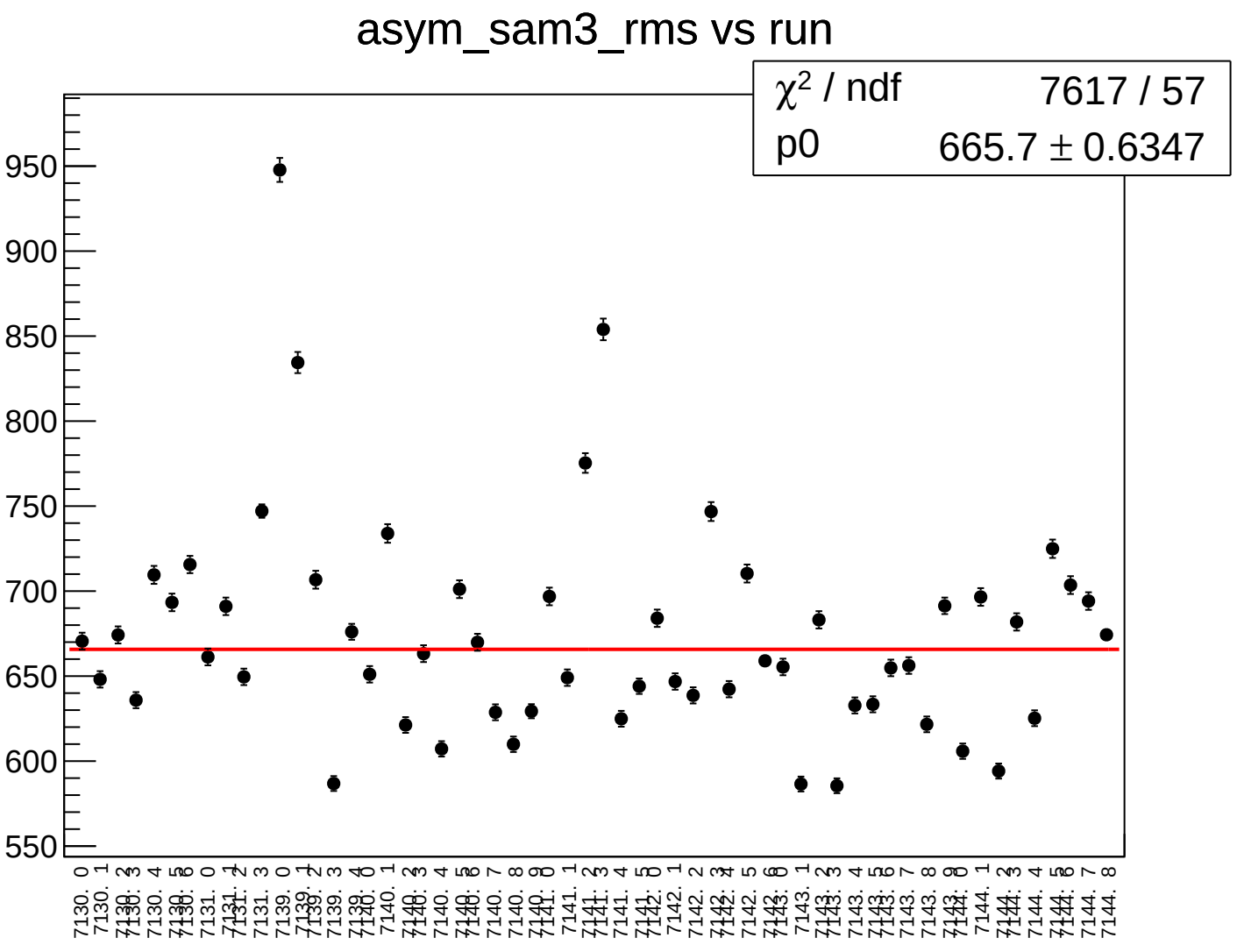

asym_sam2_mean vs run
×10^3
χ² / ndf 70.1 / 57
p0 −3205 ± 2571
pull
Entries 58
Mean 250.2
Std Dev 220.2

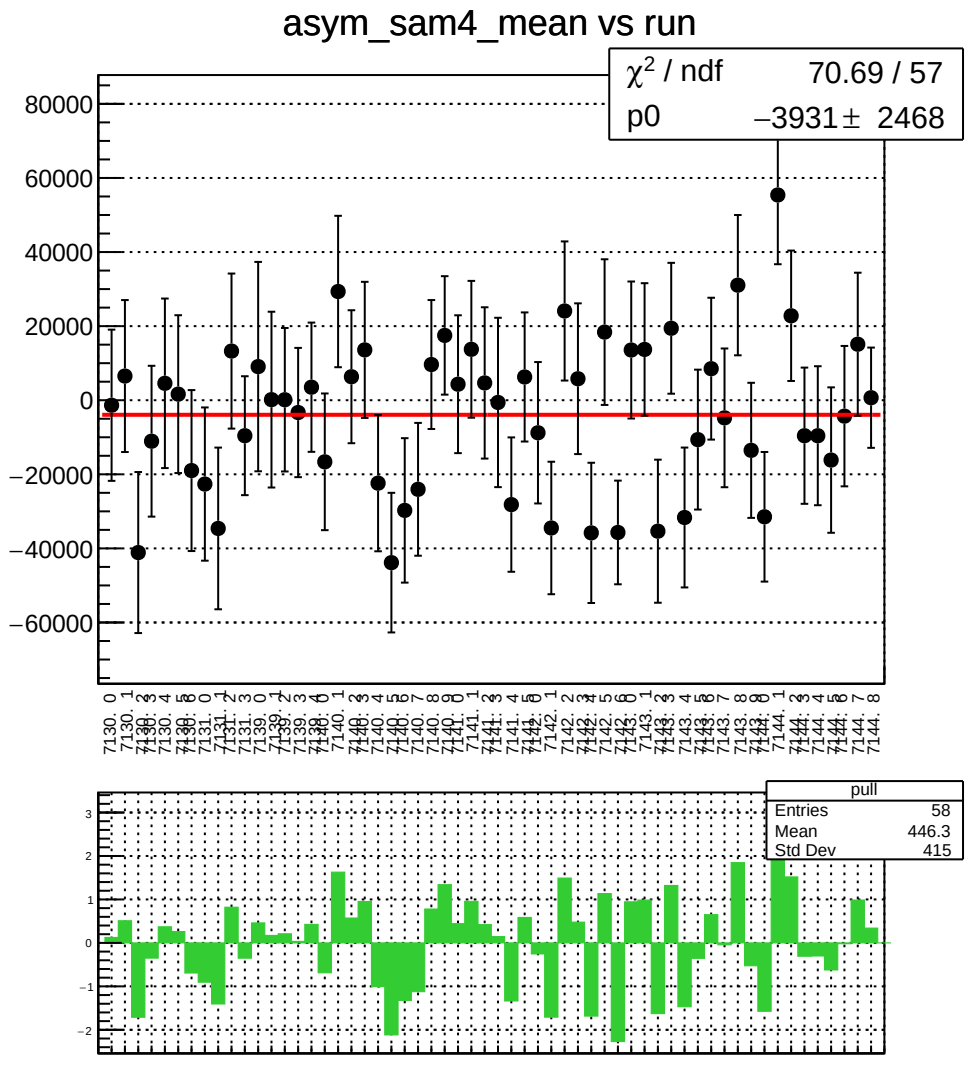

pull1D
Entries 58
Mean 0.02501
Std Dev 1.099

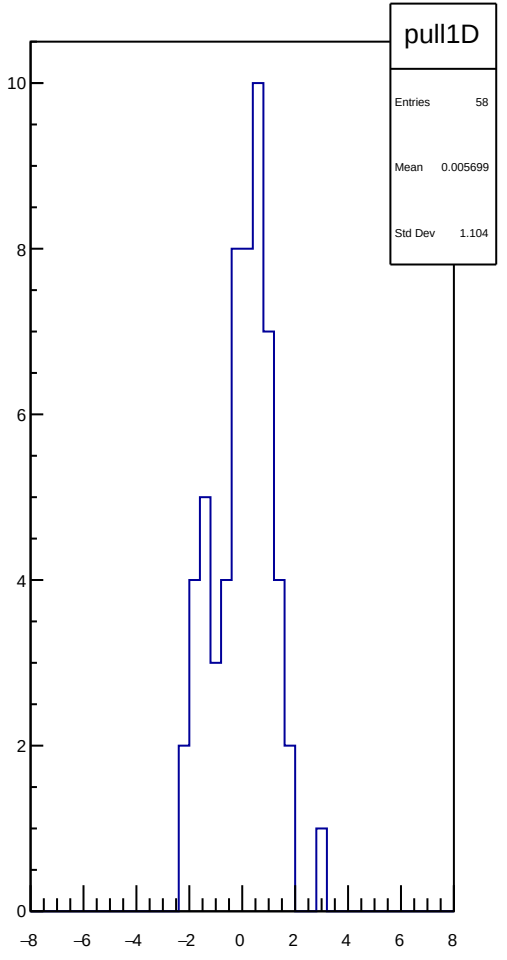

asym_sam2_rms vs run
χ^2 / ndf 9023 / 57
p0 1906 ± 1.818
2300
2200
2100
2000
1900
1800
1700
1600
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

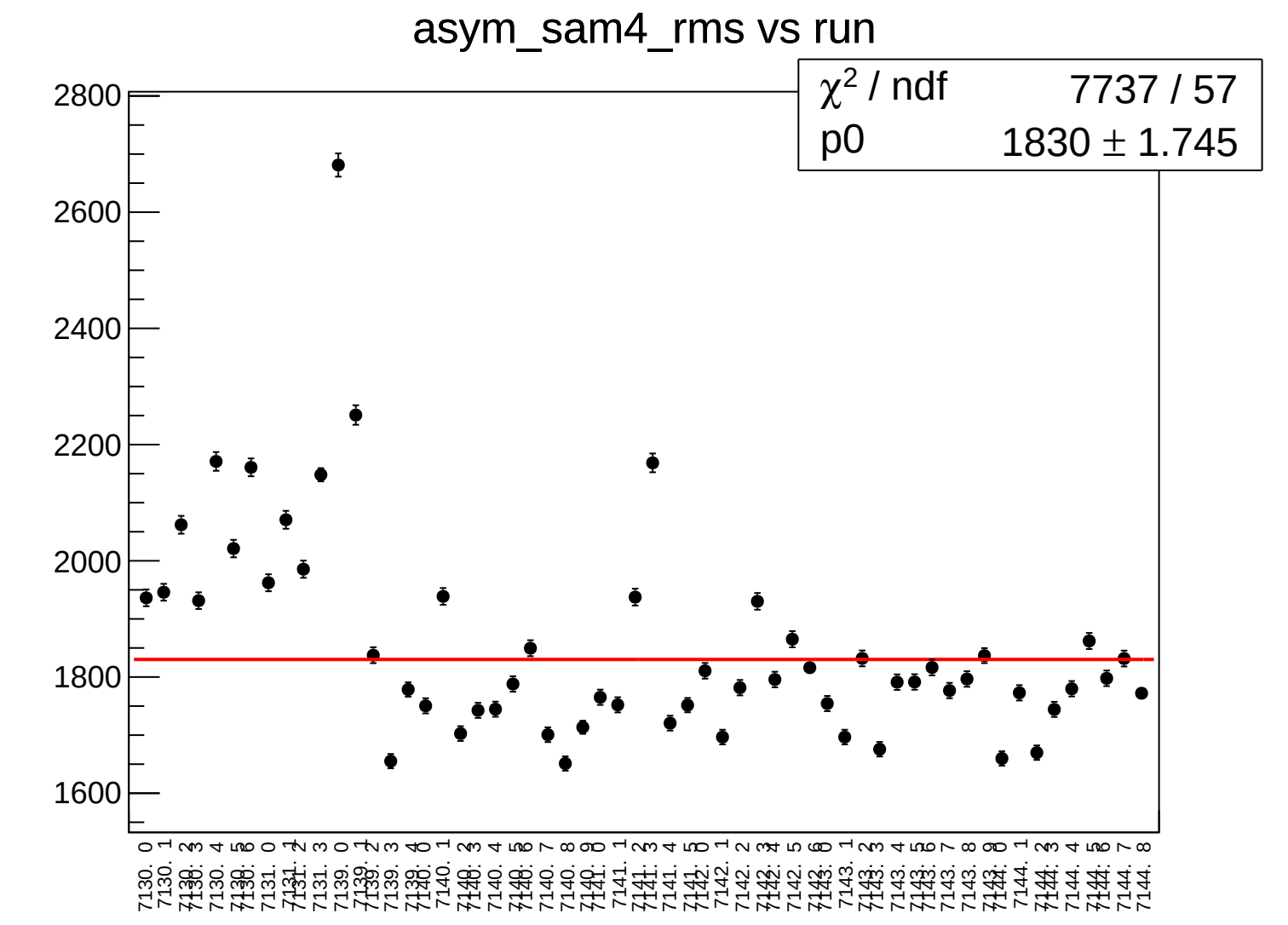

asym_sam3_mean vs run
χ² / ndf 59.09 / 57
p0 −1675 ± 897.6
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 58
Mean 413
Std Dev 382.7
4
3
2
1
0
−1
−2

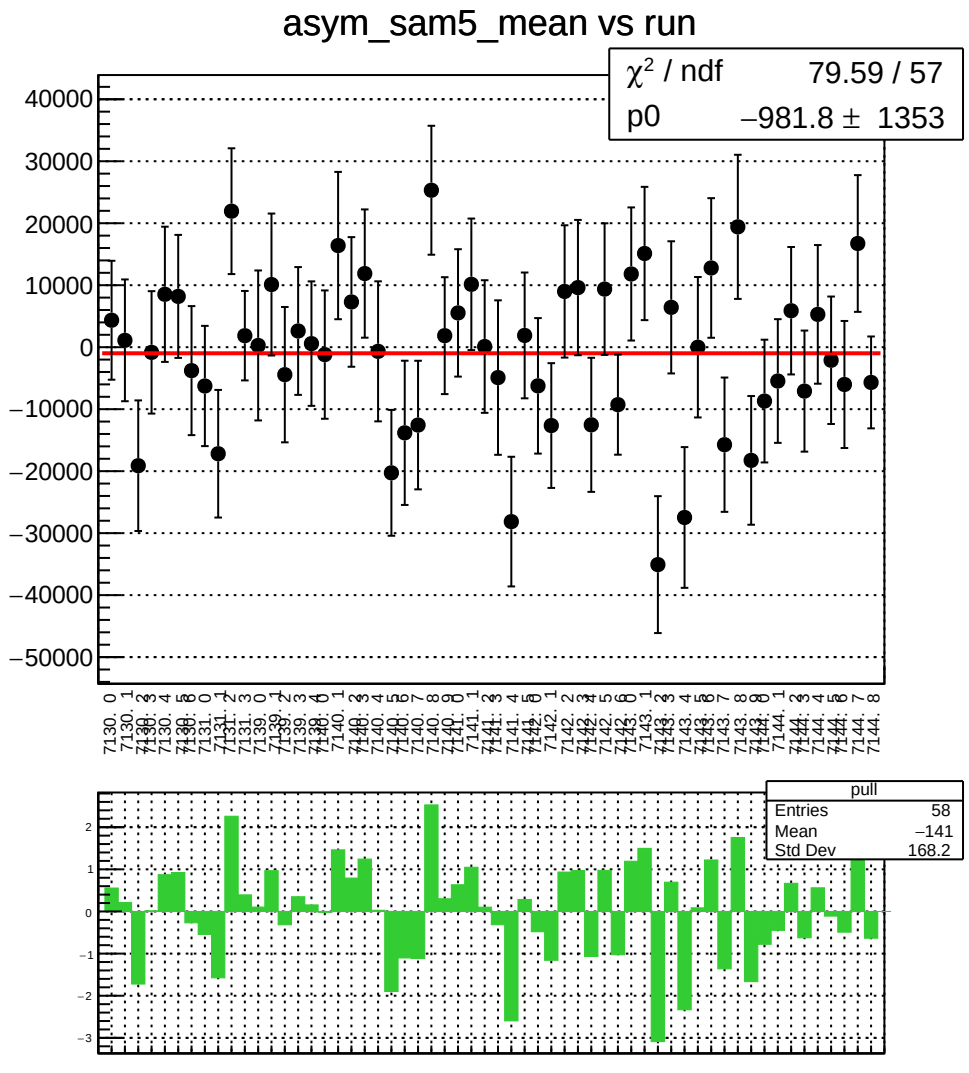

pull1D
Entries 58
Mean 0.01347
Std Dev 1.009
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

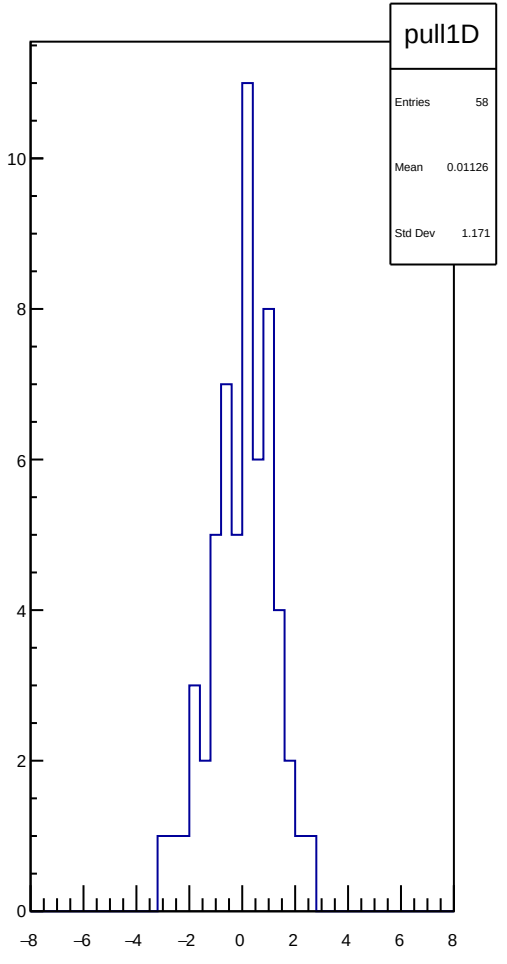

asym_sam3_rms vs run
χ² / ndf 7617 / 57
p0 665.7 ± 0.6347
950
900
850
800
750
700
650
600
550

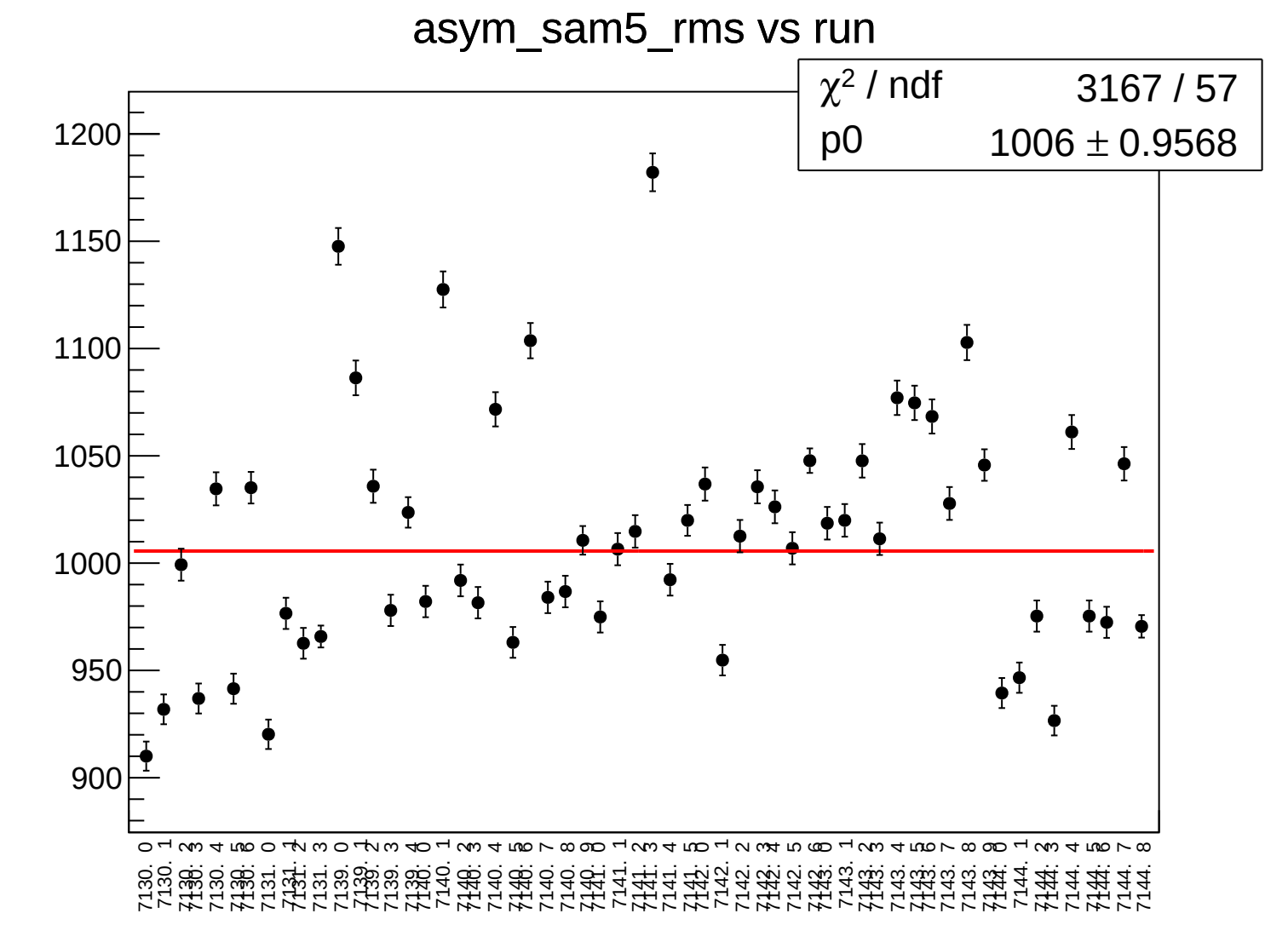

asym_sam4_mean vs run
χ² / ndf 70.69 / 57
p0 −3931 ± 2468
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 58
Mean 446.3
Std Dev 415
3
2
1
0
−1
−2

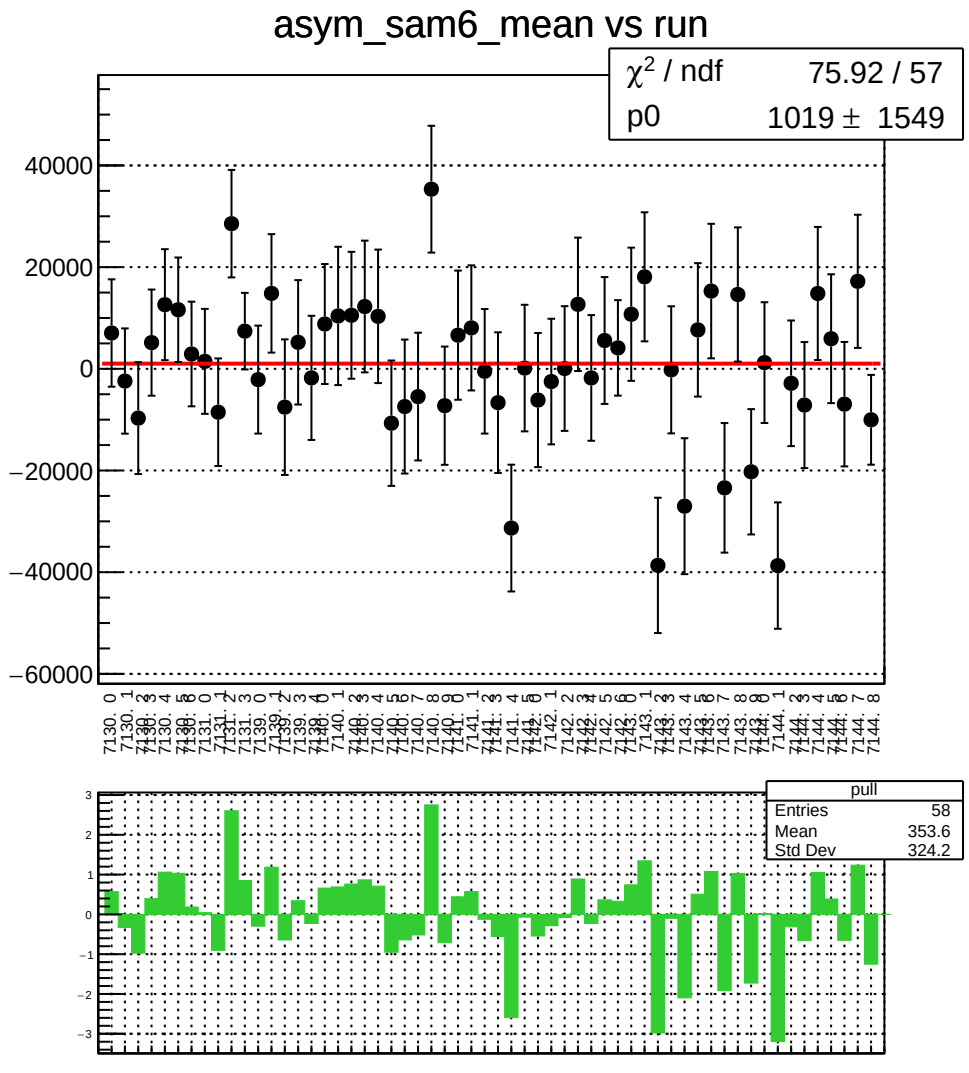

pull1D
Entries 58
Mean 0.005699
Std Dev 1.104
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

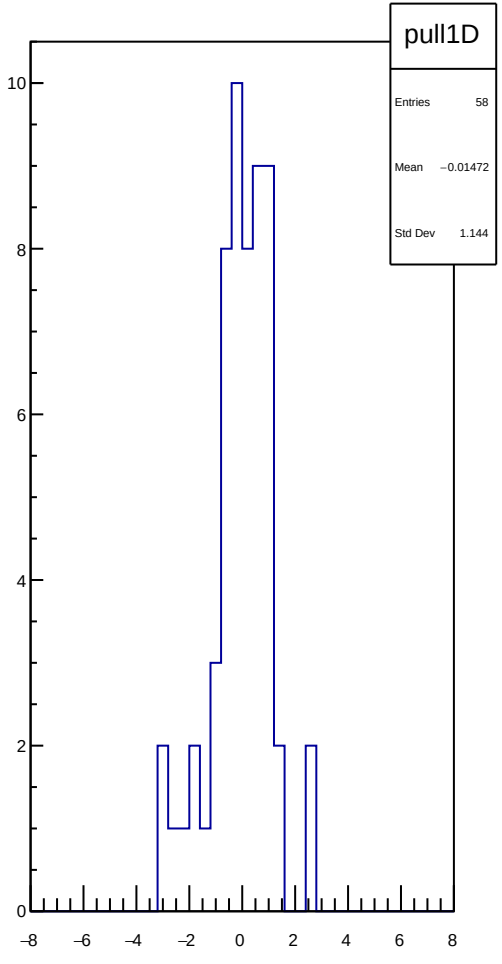

asym_sam4_rms vs run
χ^2 / ndf 7737 / 57
p0 1830 ± 1.745
2800
2600
2400
2200
2000
1800
1600

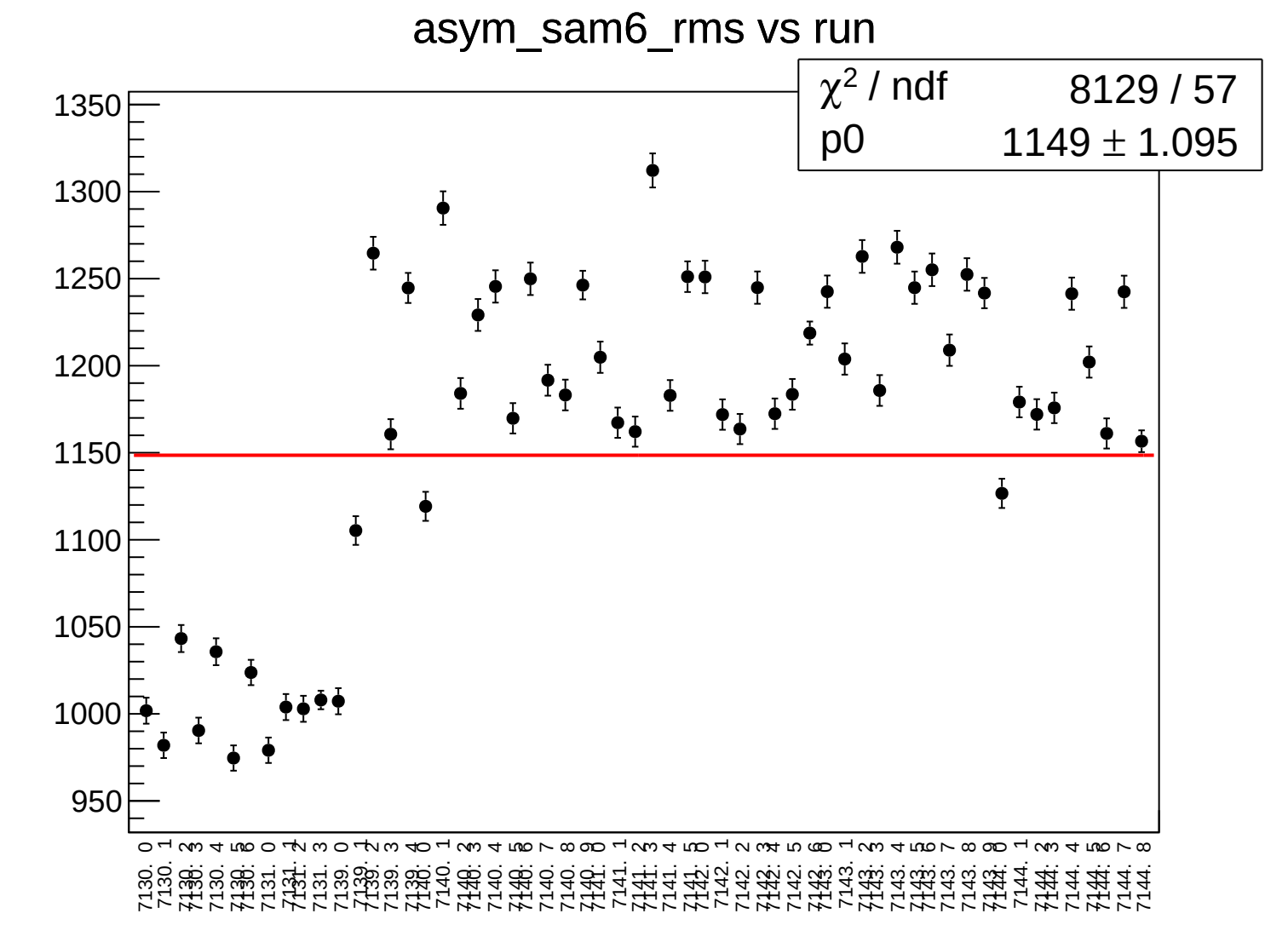

asym_sam5_mean vs run
χ² / ndf 79.59 / 57
p0 −981.8 ± 1353
pull
Entries 58
Mean −141
Std Dev 168.2

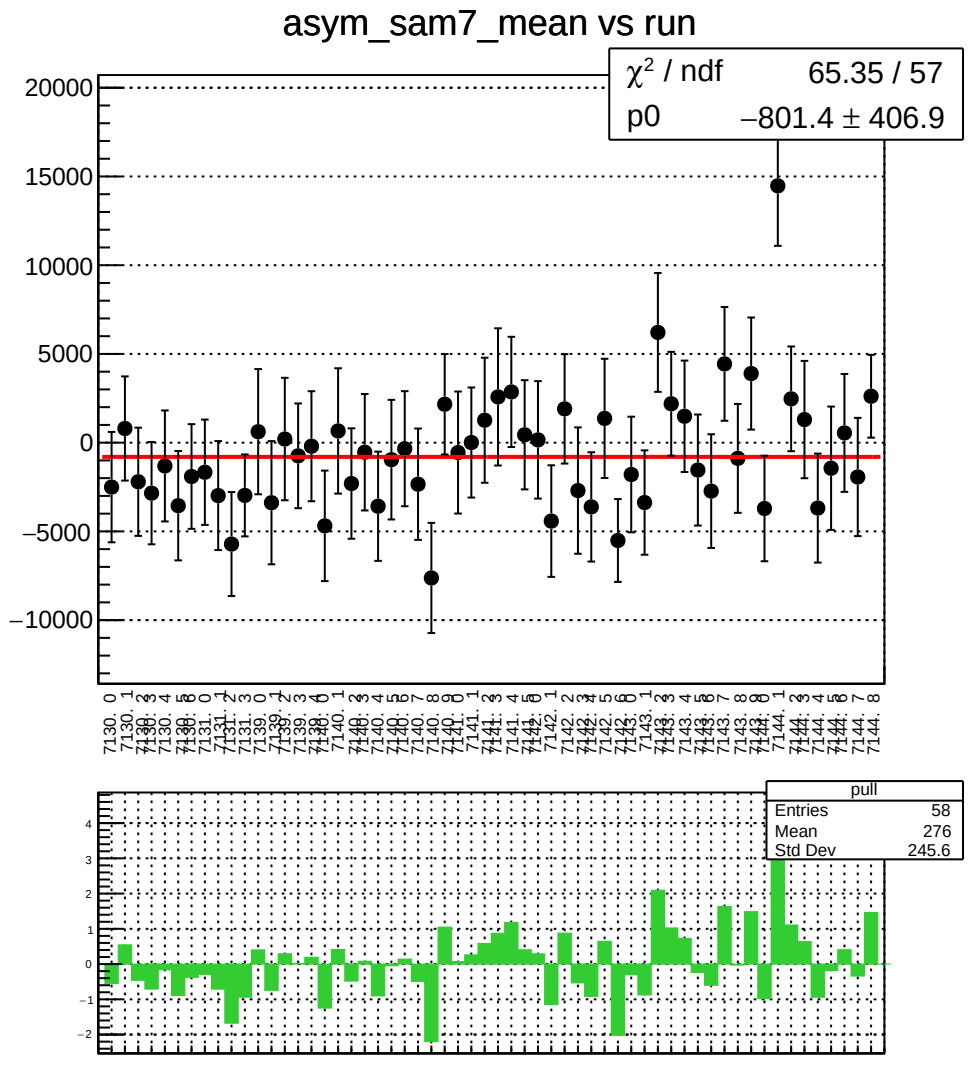

pull1D
Entries 58
Mean 0.01126
Std Dev 1.171

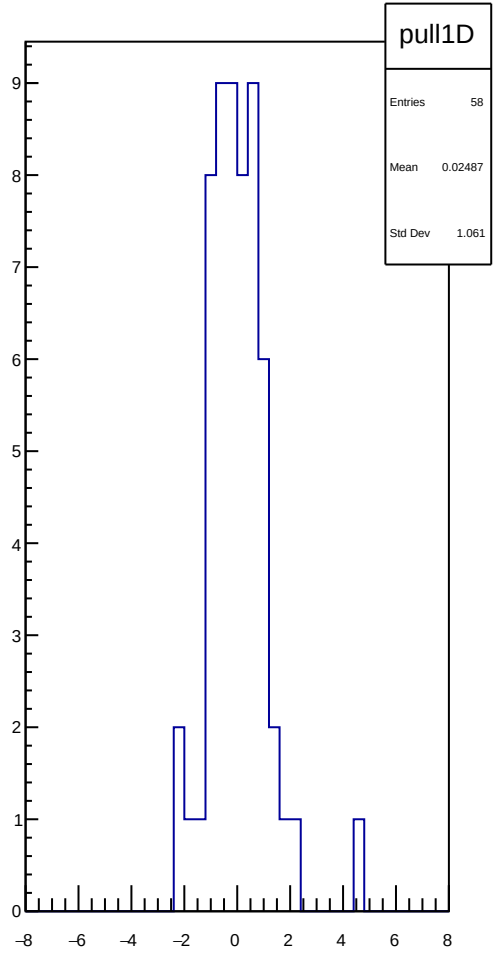

asym_sam5_rms vs run
χ² / ndf 3167 / 57
p0 1006 ± 0.9568
1200
1150
1100
1050
1000
950
900

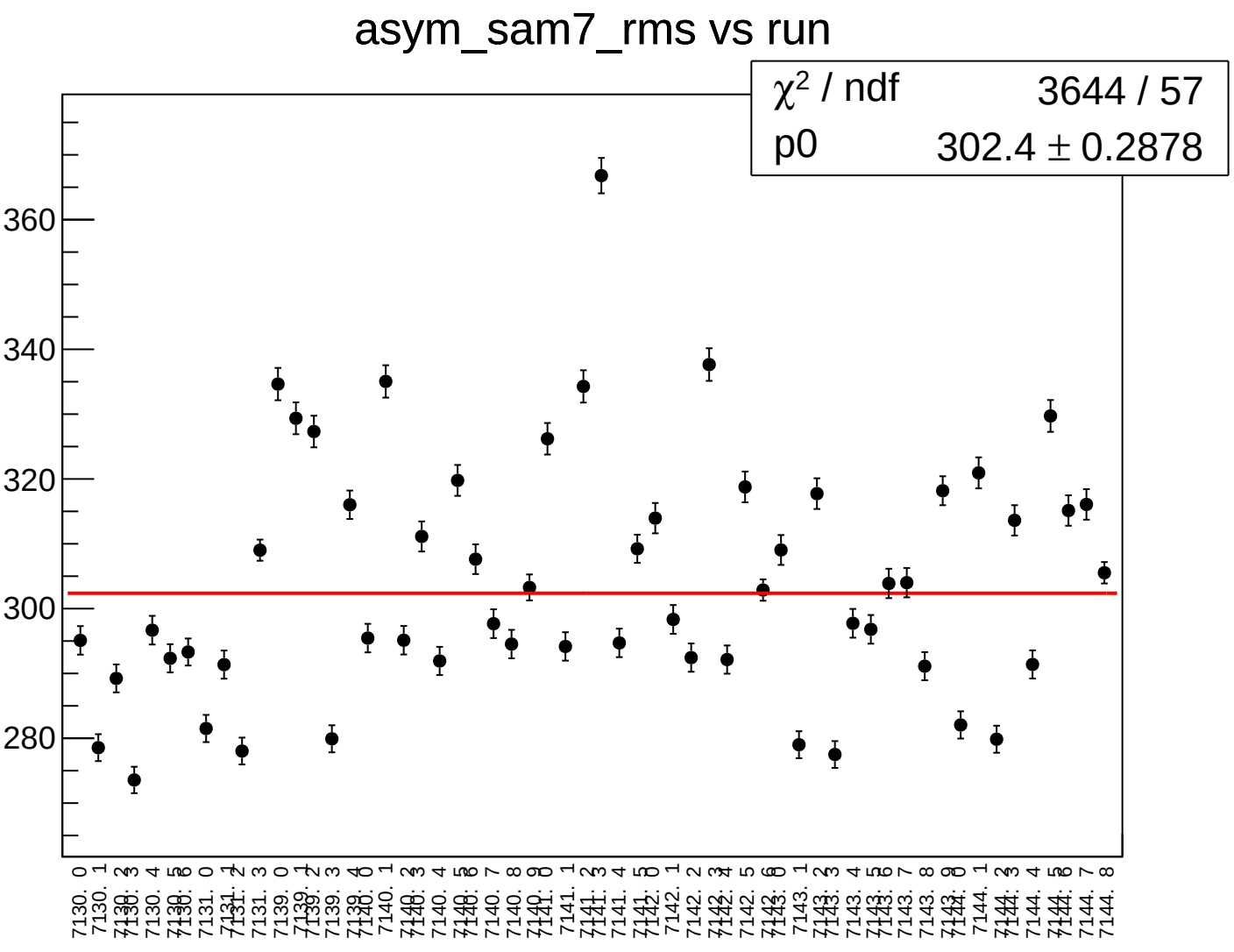

asym_sam6_mean vs run
χ² / ndf 75.92 / 57
p0 1019 ± 1549
40000
20000
0
−20000
−40000
−60000
pull
Entries 58
Mean 353.6
Std Dev 324.2
3
2
1
0
−1
−2
−3

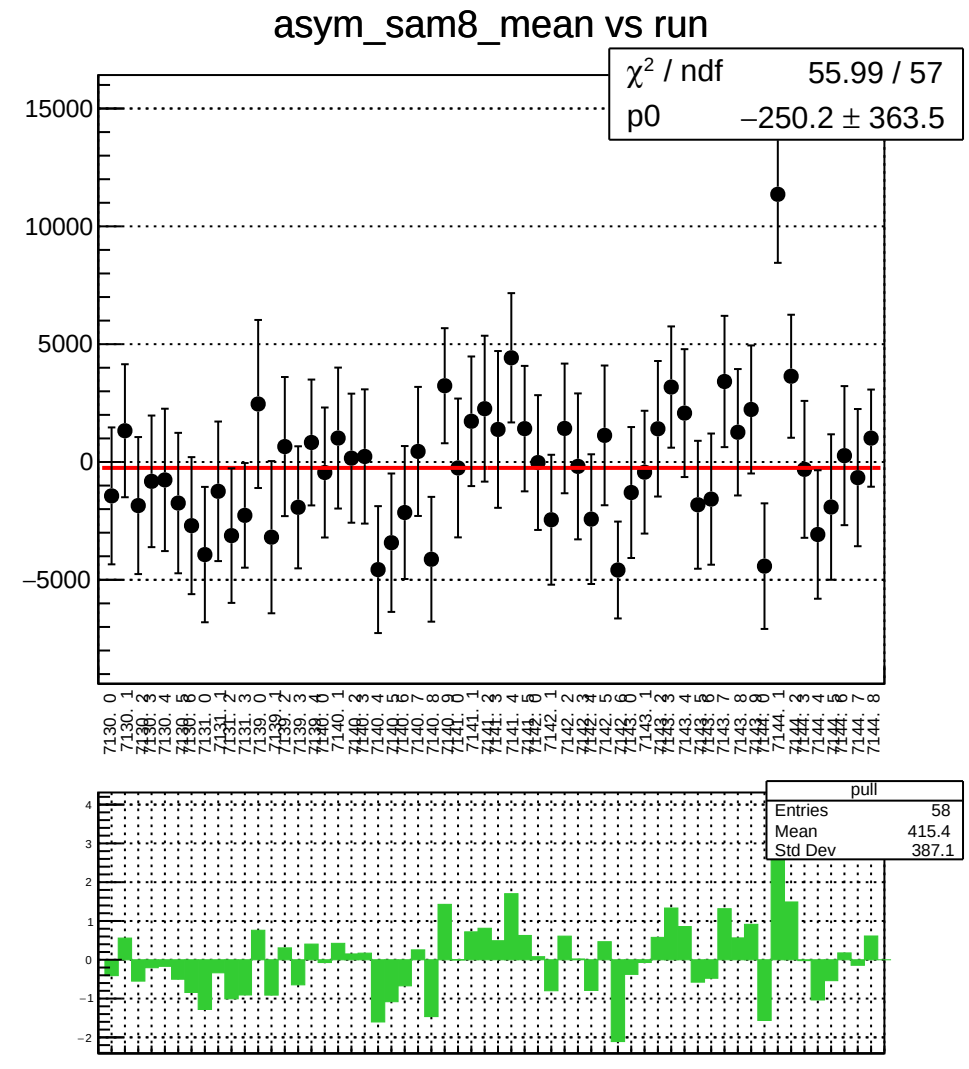

pull1D
Entries 58
Mean −0.01472
Std Dev 1.144
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

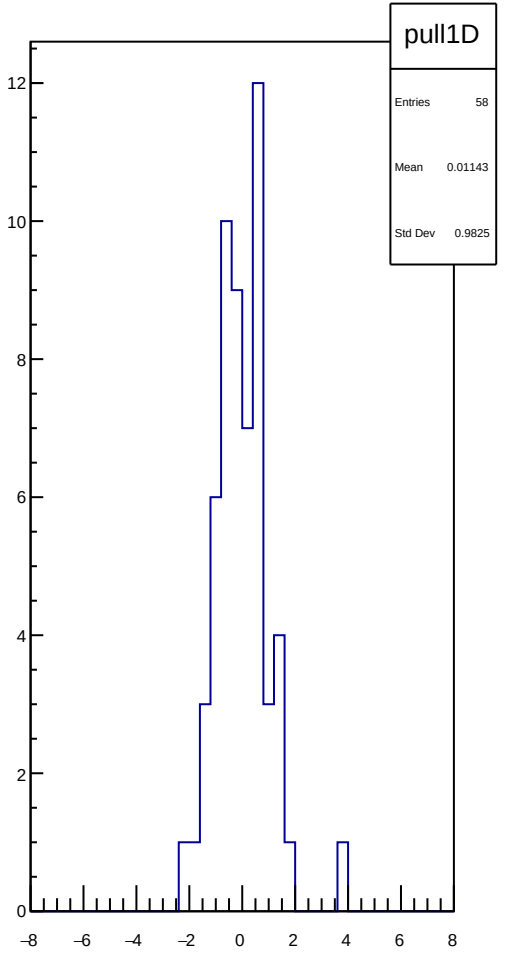

asym_sam6_rms vs run
χ² / ndf 8129 / 57
p0 1149 ± 1.095
1350
1300
1250
1200
1150
1100
1050
1000
950

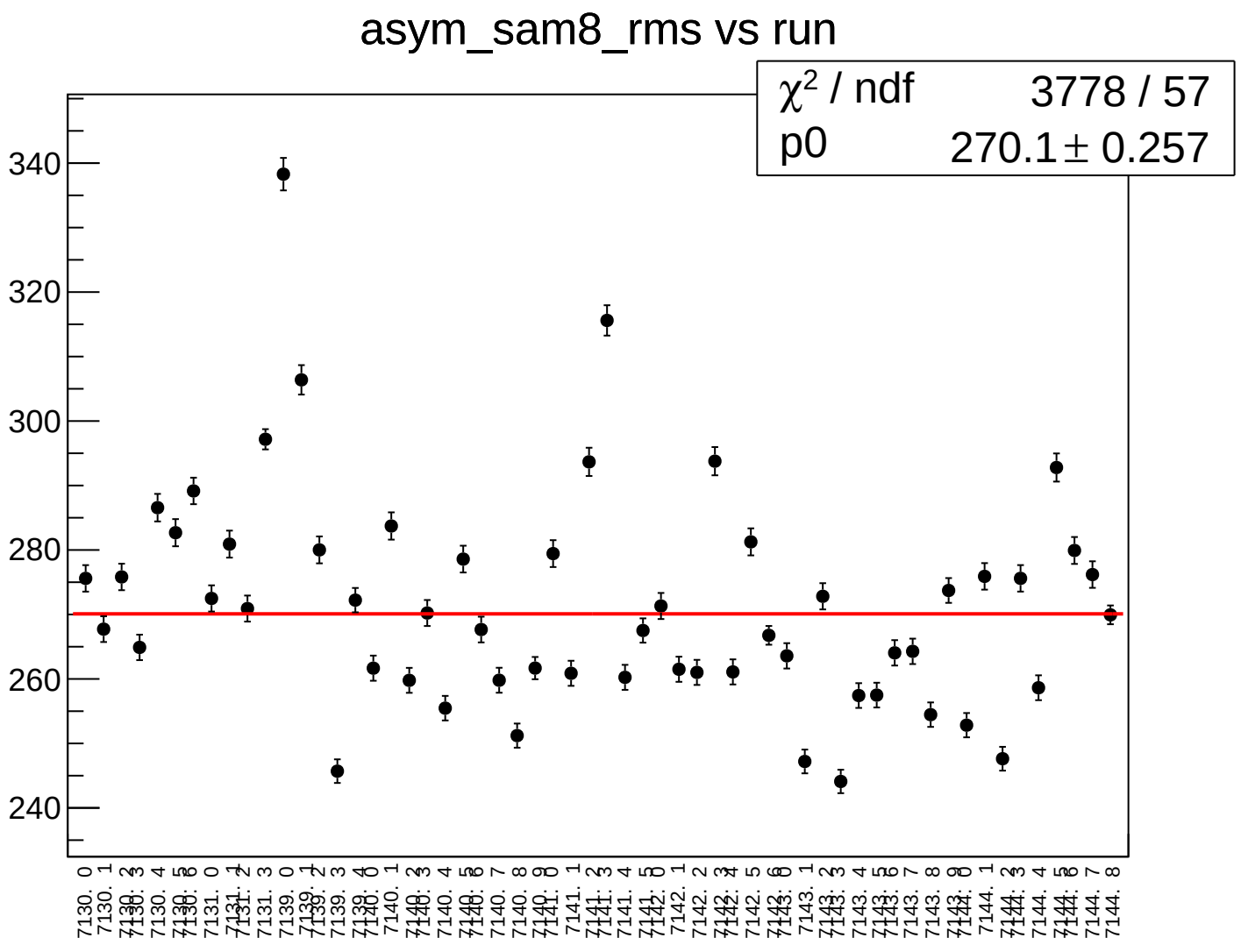

asym_sam7_mean vs run
χ² / ndf 65.35 / 57
p0 −801.4 ± 406.9
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 276
Std Dev 245.6
4
3
2
1
0
−1
−2

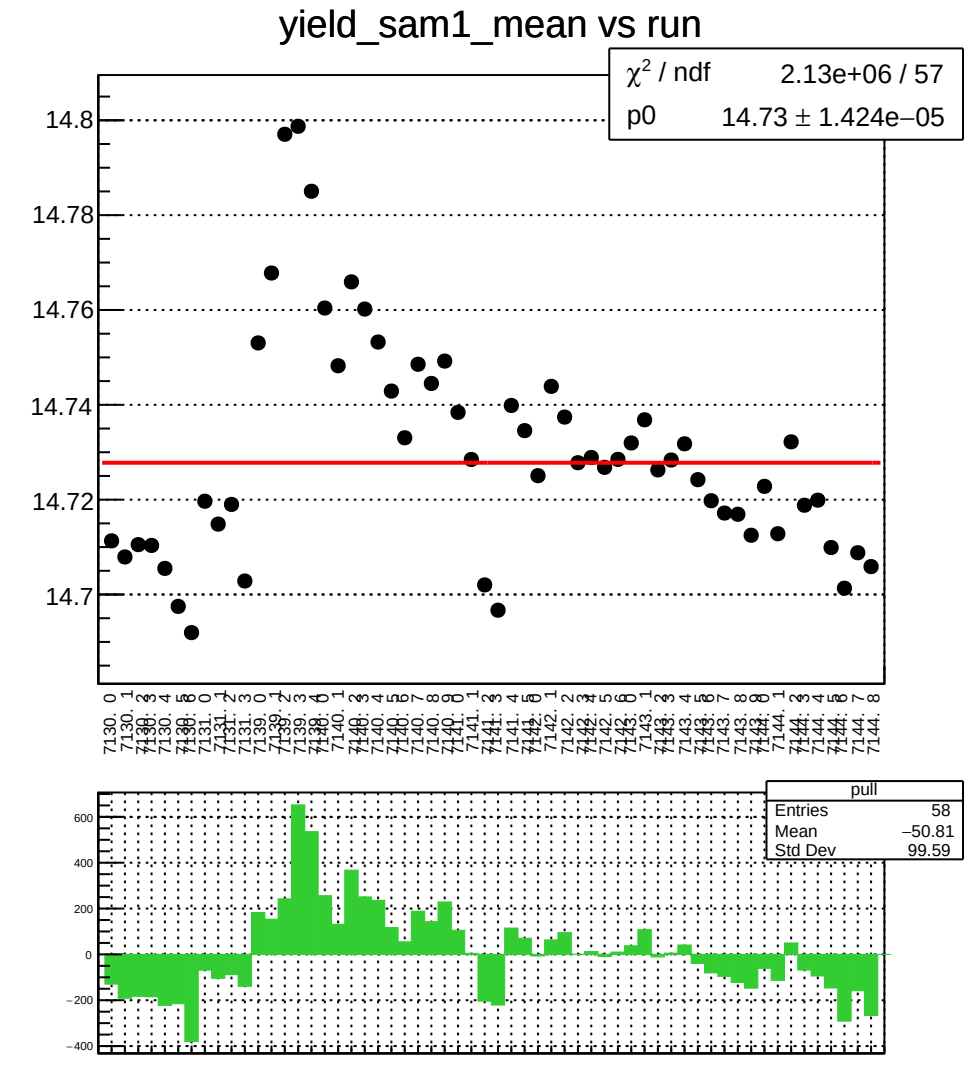

pull1D
Entries 58
Mean 0.02487
Std Dev 1.061
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

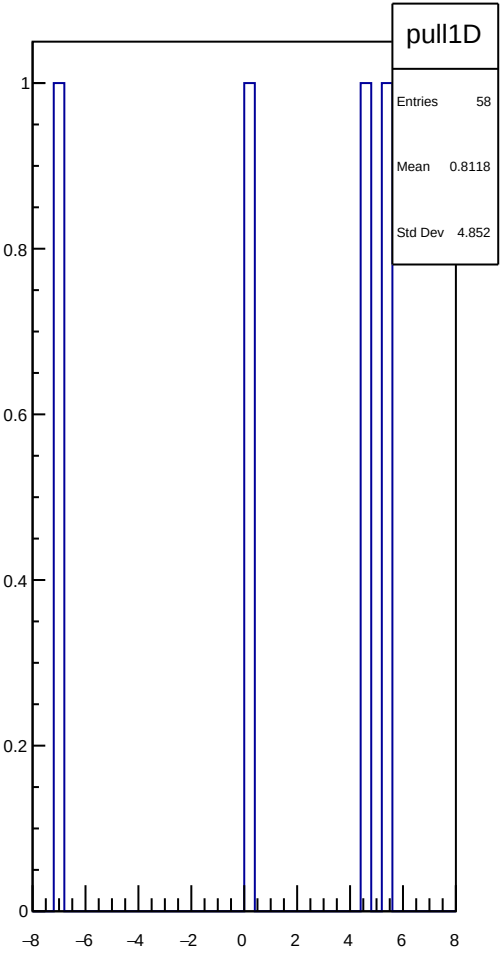

asym_sam7_rms vs run
χ² / ndf 3644 / 57
p0 302.4 ± 0.2878
360
340
320
300
280

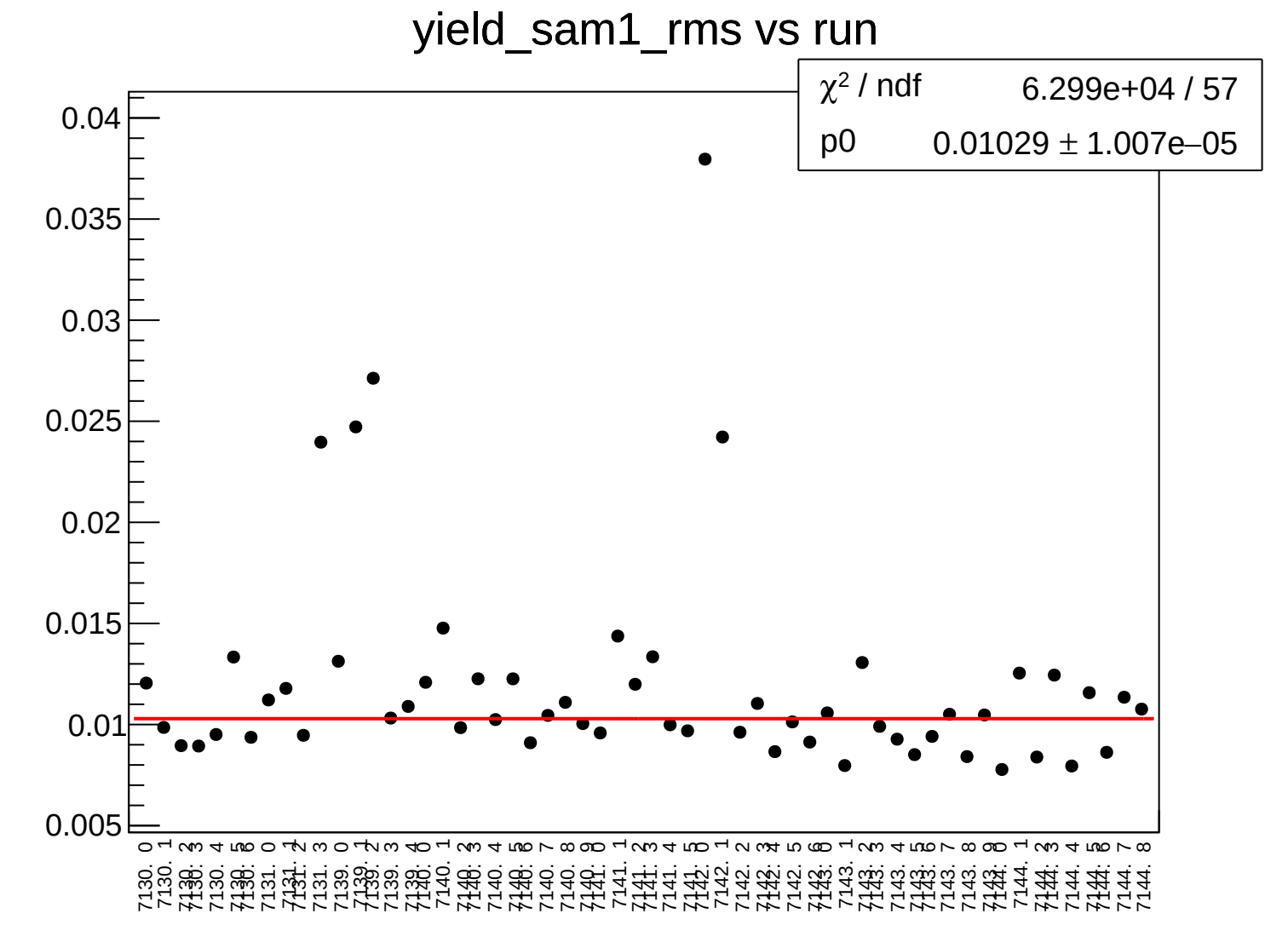

asym_sam8_mean vs run
χ² / ndf 55.99 / 57
p0 −250.2 ± 363.5
15000
10000
5000
0
−5000
pull
Entries 58
Mean 415.4
Std Dev 387.1
4
3
2
1
0
−1
−2

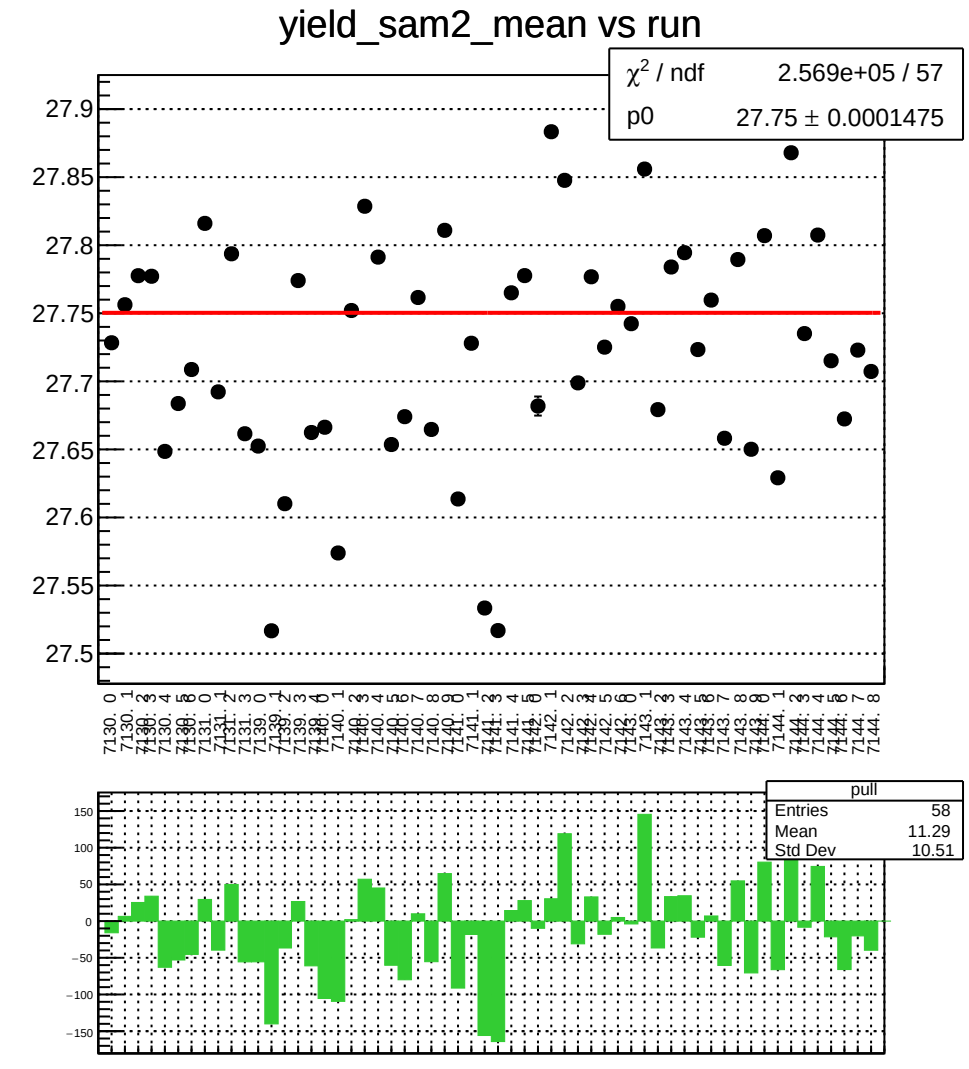

pull1D
Entries 58
Mean 0.01143
Std Dev 0.9825
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

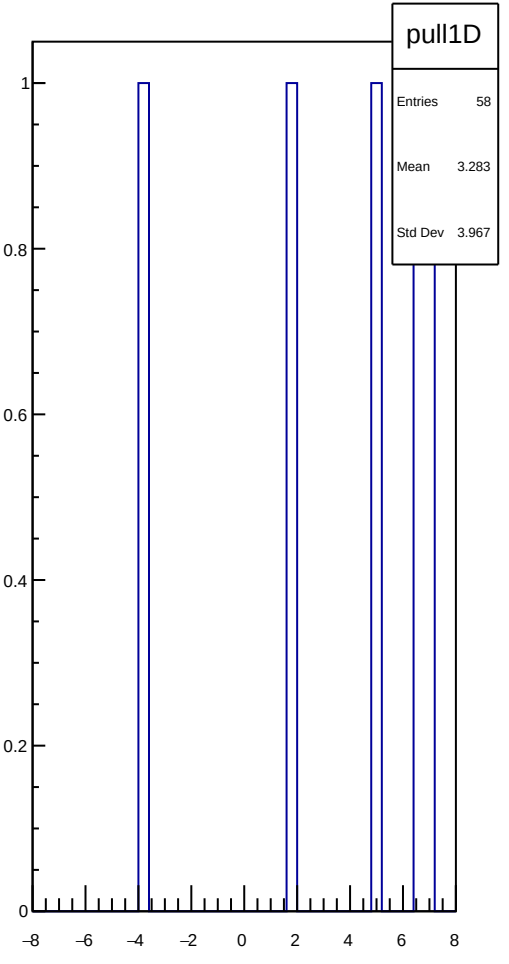

asym_sam8_rms vs run
χ² / ndf 3778 / 57
p0 270.1 ± 0.257
340
320
300
280
260
240

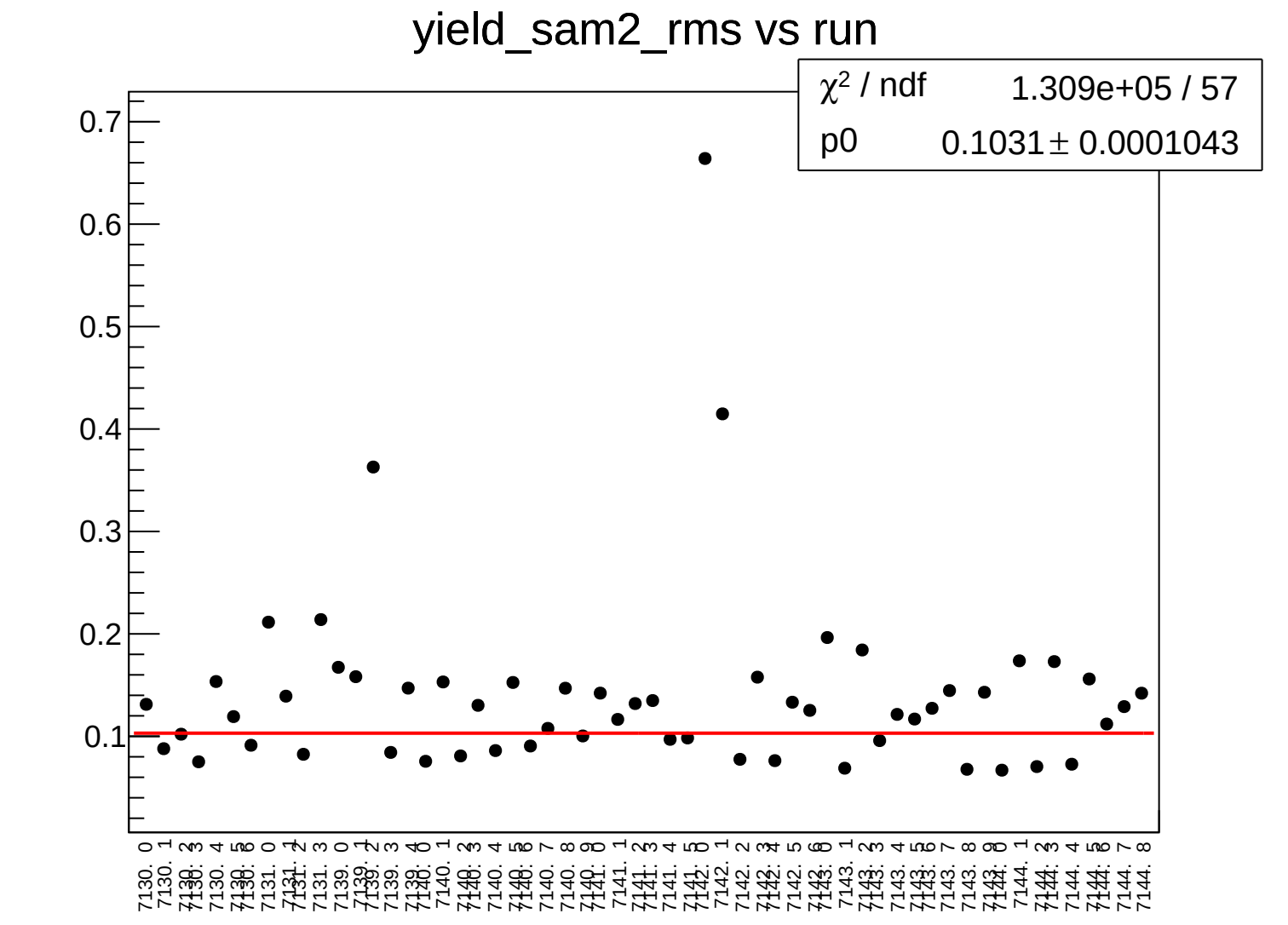

yield_sam1_mean vs run
χ² / ndf 2.13e+06 / 57
p0 14.73 ± 1.424e−05
14.8
14.78
14.76
14.74
14.72
14.7
pull
Entries 58
Mean −50.81
Std Dev 99.59
600
400
200
0
−200
−400

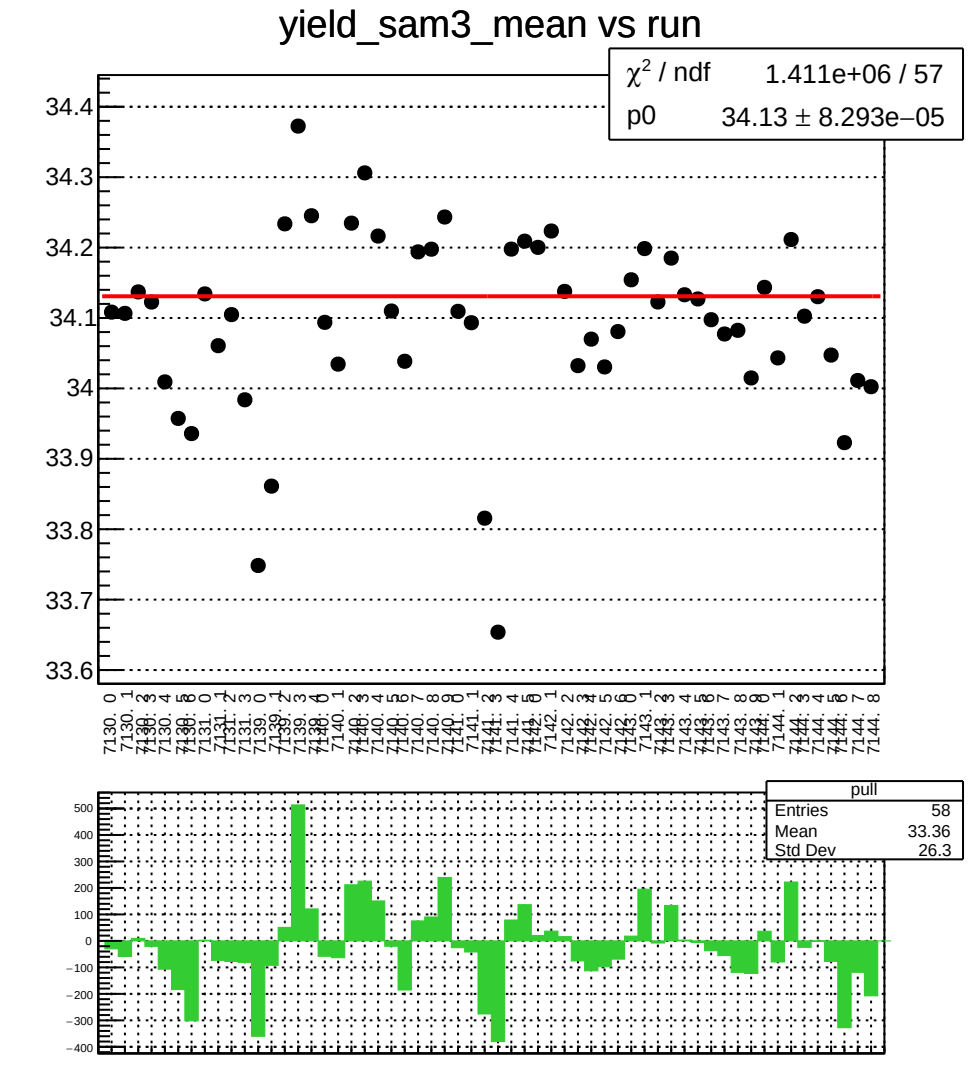

pull1D
Entries 58
Mean 0.8118
Std Dev 4.852
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

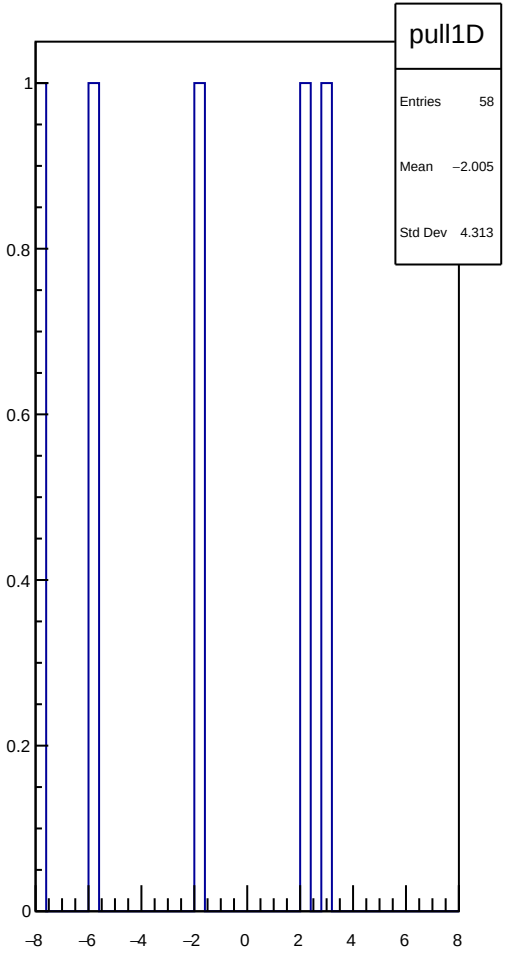

yield_sam1_rms vs run
χ² / ndf 6.299e+04 / 57
p0 0.01029 ± 1.007e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

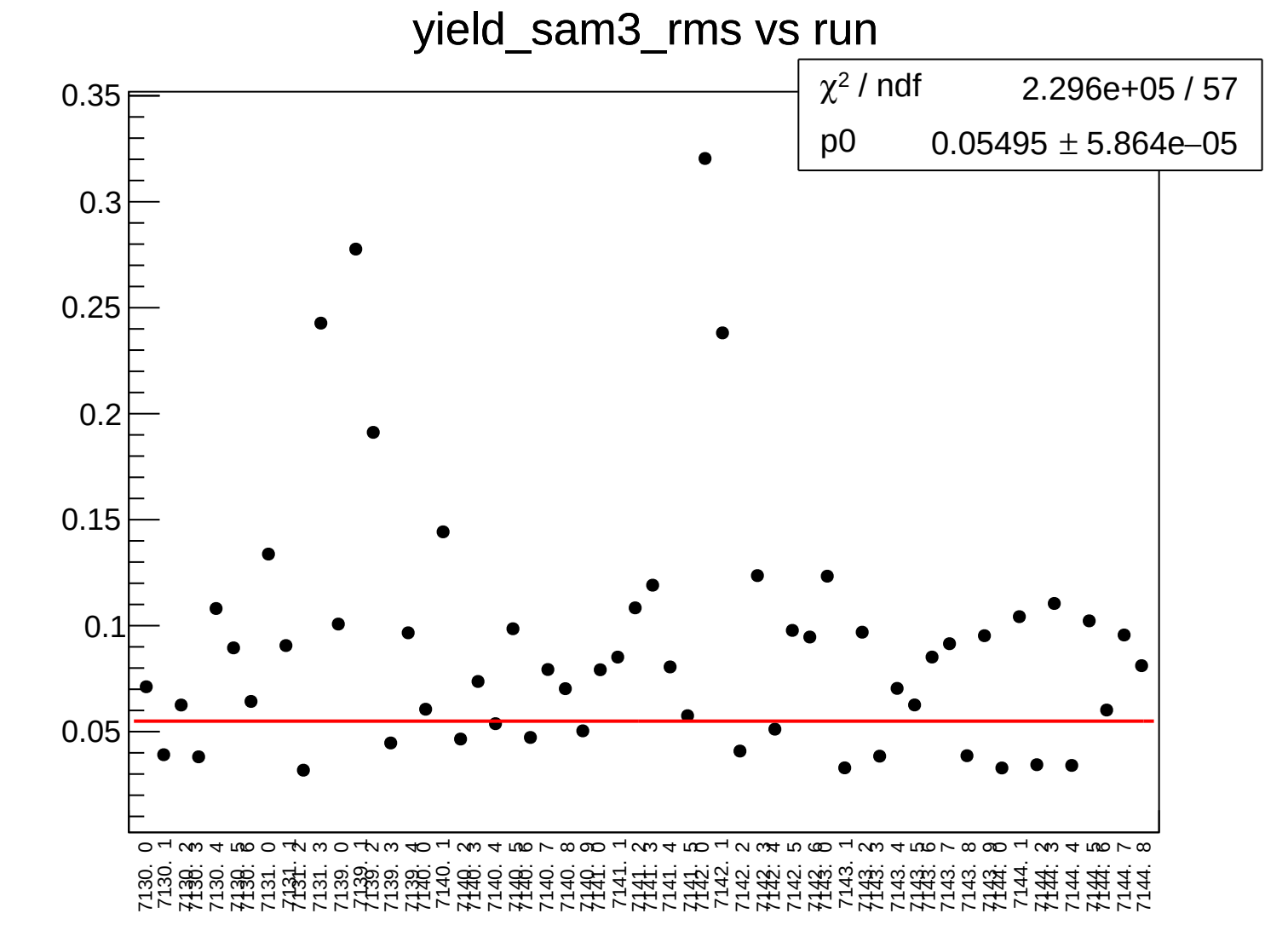

yield_sam2_mean vs run
χ² / ndf 2.569e+05 / 57
p0 27.75 ± 0.0001475
27.9
27.85
27.8
27.75
27.7
27.65
27.6
27.55
27.5
pull
Entries 58
Mean 11.29
Std Dev 10.51
150
100
50
0
−50
−100
−150

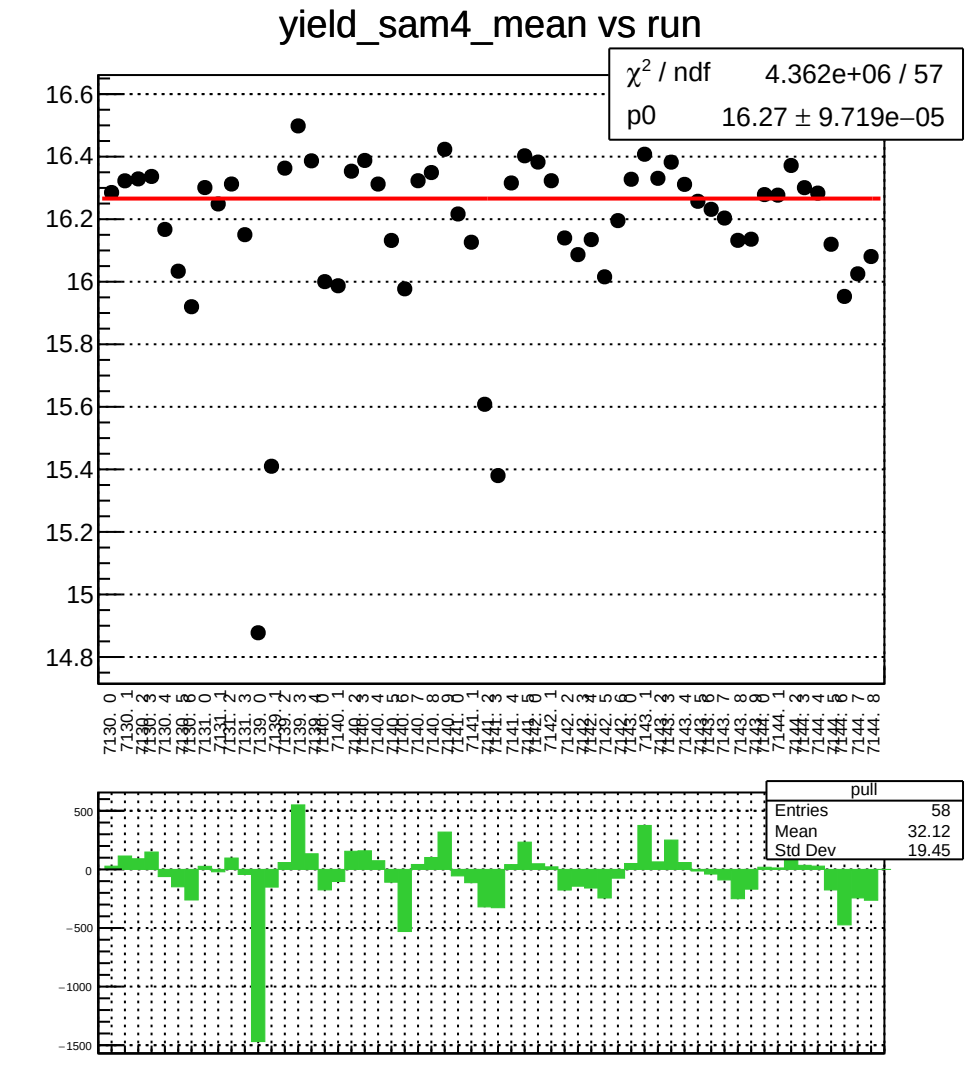

pull1D
Entries 58
Mean 3.283
Std Dev 3.967
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

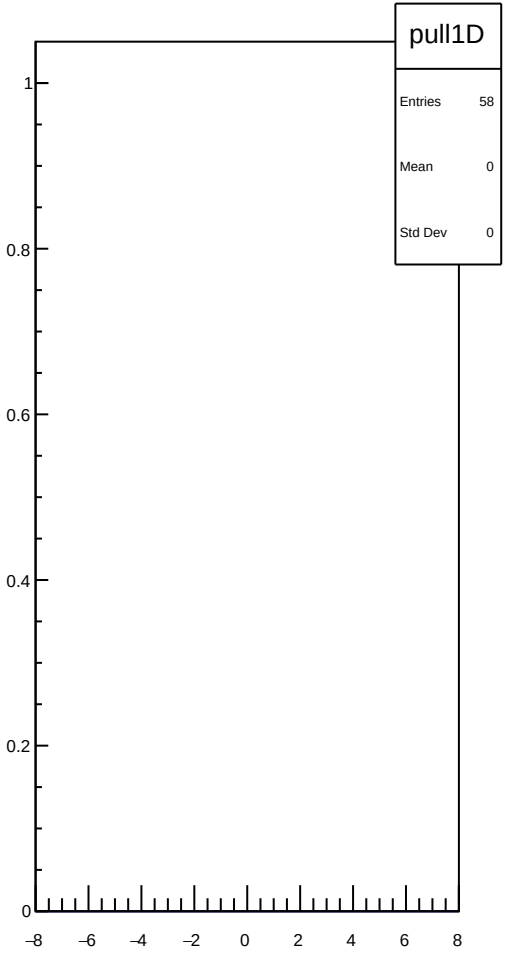

yield_sam2_rms vs run
χ^2 / ndf 1.309e+05 / 57
p0 0.1031 ± 0.0001043
0.7
0.6
0.5
0.4
0.3
0.2
0.1

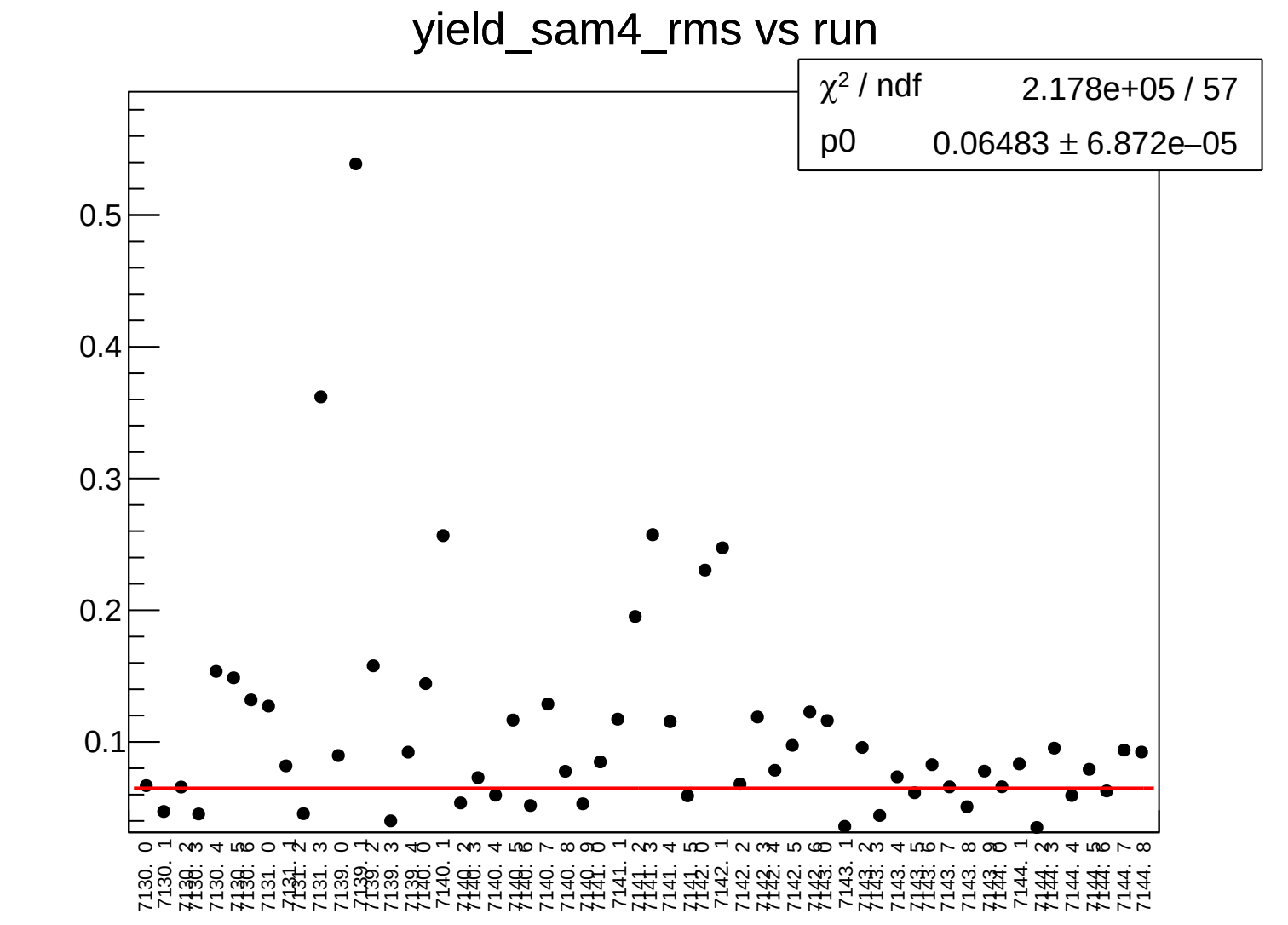

yield_sam3_mean vs run
χ² / ndf 1.411e+06 / 57
p0 34.13 ± 8.293e−05
34.4
34.3
34.2
34.1
34
33.9
33.8
33.7
33.6
pull
Entries 58
Mean 33.36
Std Dev 26.3
500
400
300
200
100
0
−100
−200
−300
−400

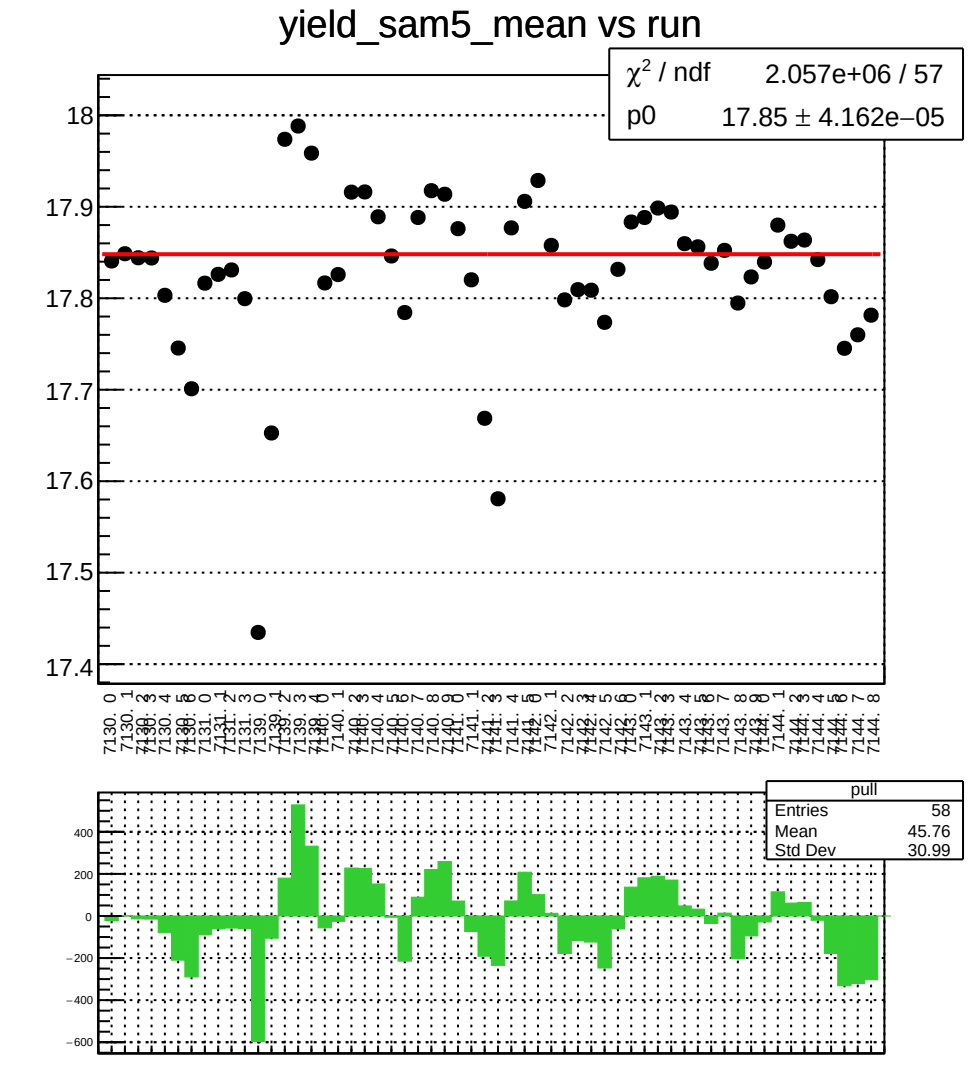

pull1D
Entries 58
Mean −2.005
Std Dev 4.313
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

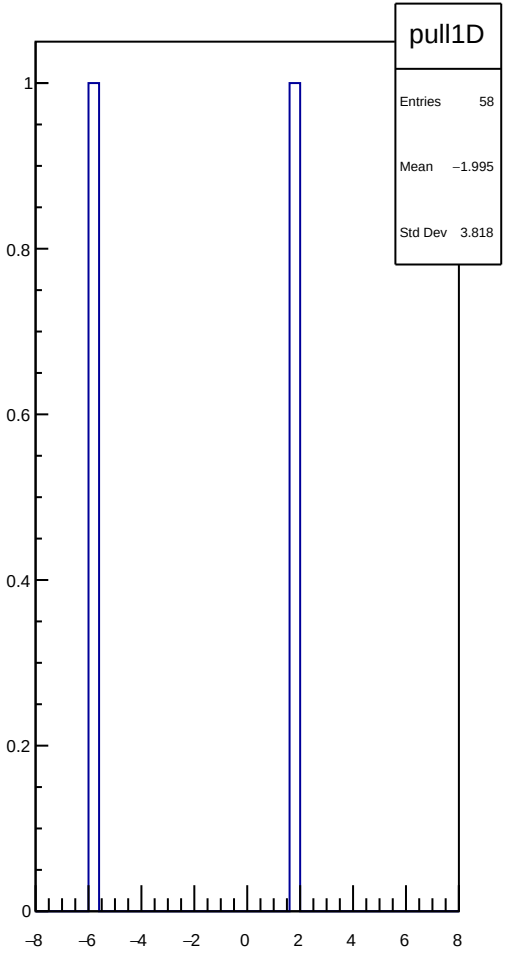

yield_sam3_rms vs run
χ² / ndf 2.296e+05 / 57
p0 0.05495 ± 5.864e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

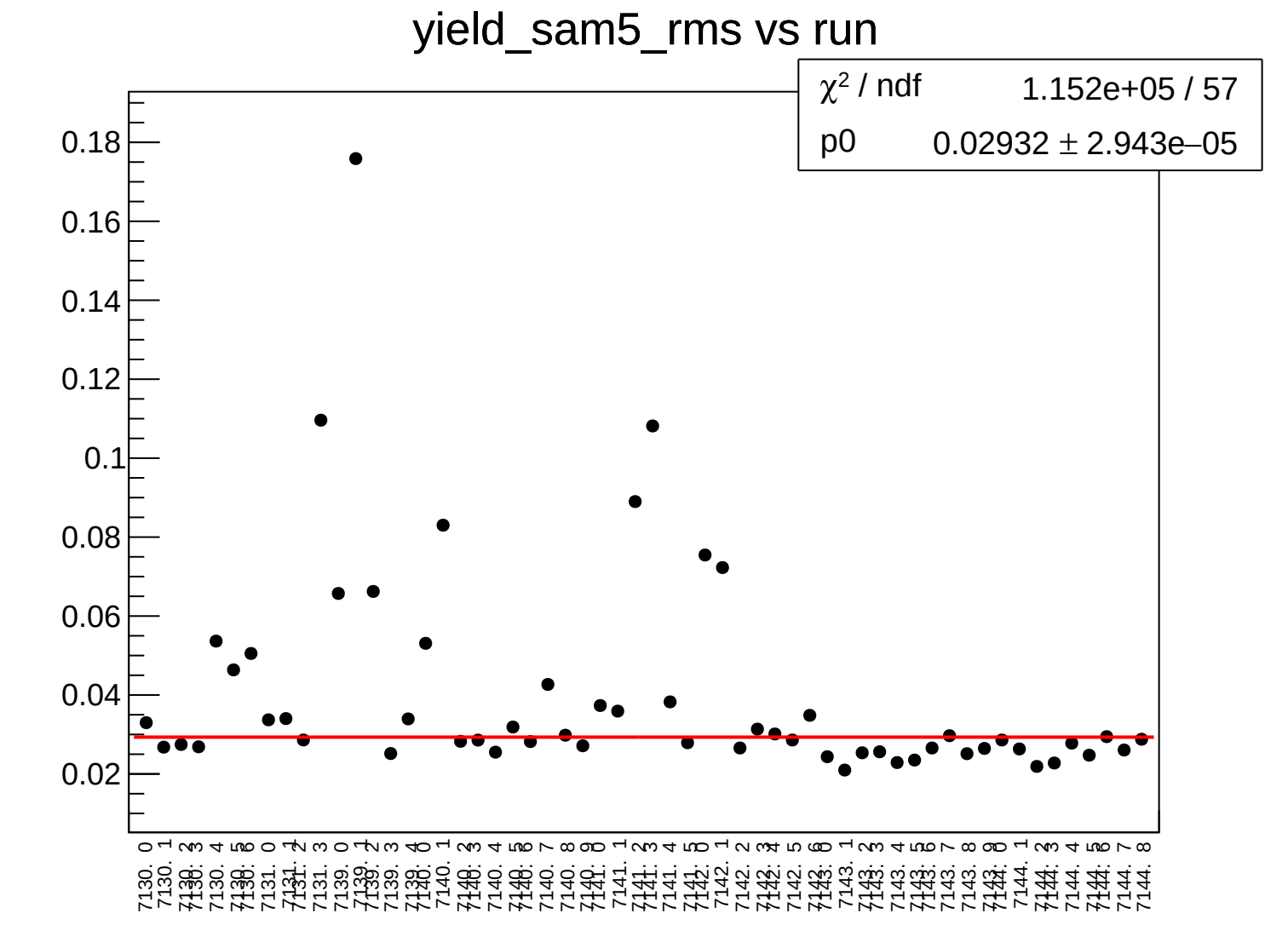

yield_sam4_mean vs run
χ² / ndf 4.362e+06 / 57
p0 16.27 ± 9.719e−05
pull
Entries 58
Mean 32.12
Std Dev 19.45

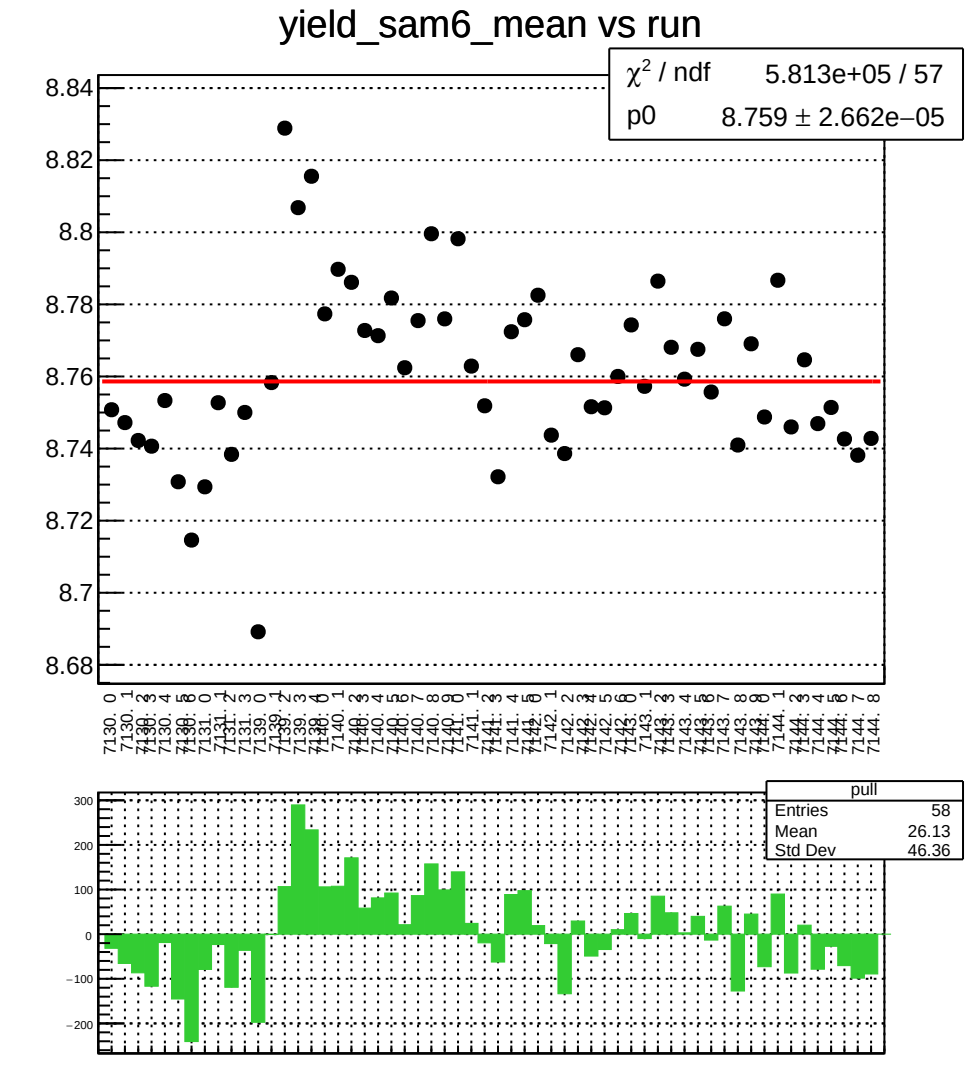

pull1D
Entries 58
Mean 0
Std Dev 0

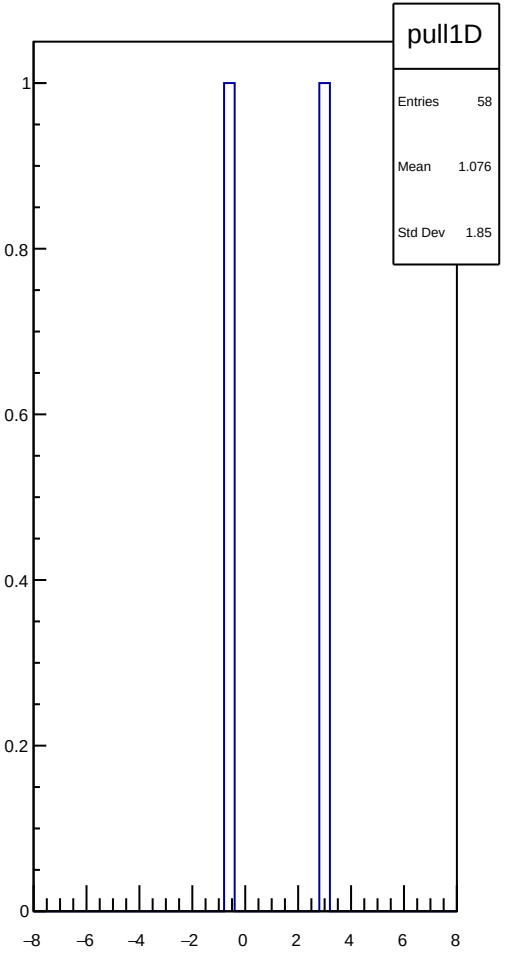

yield_sam4_rms vs run
χ² / ndf 2.178e+05 / 57
p0 0.06483 ± 6.872e−05
0.5
0.4
0.3
0.2
0.1

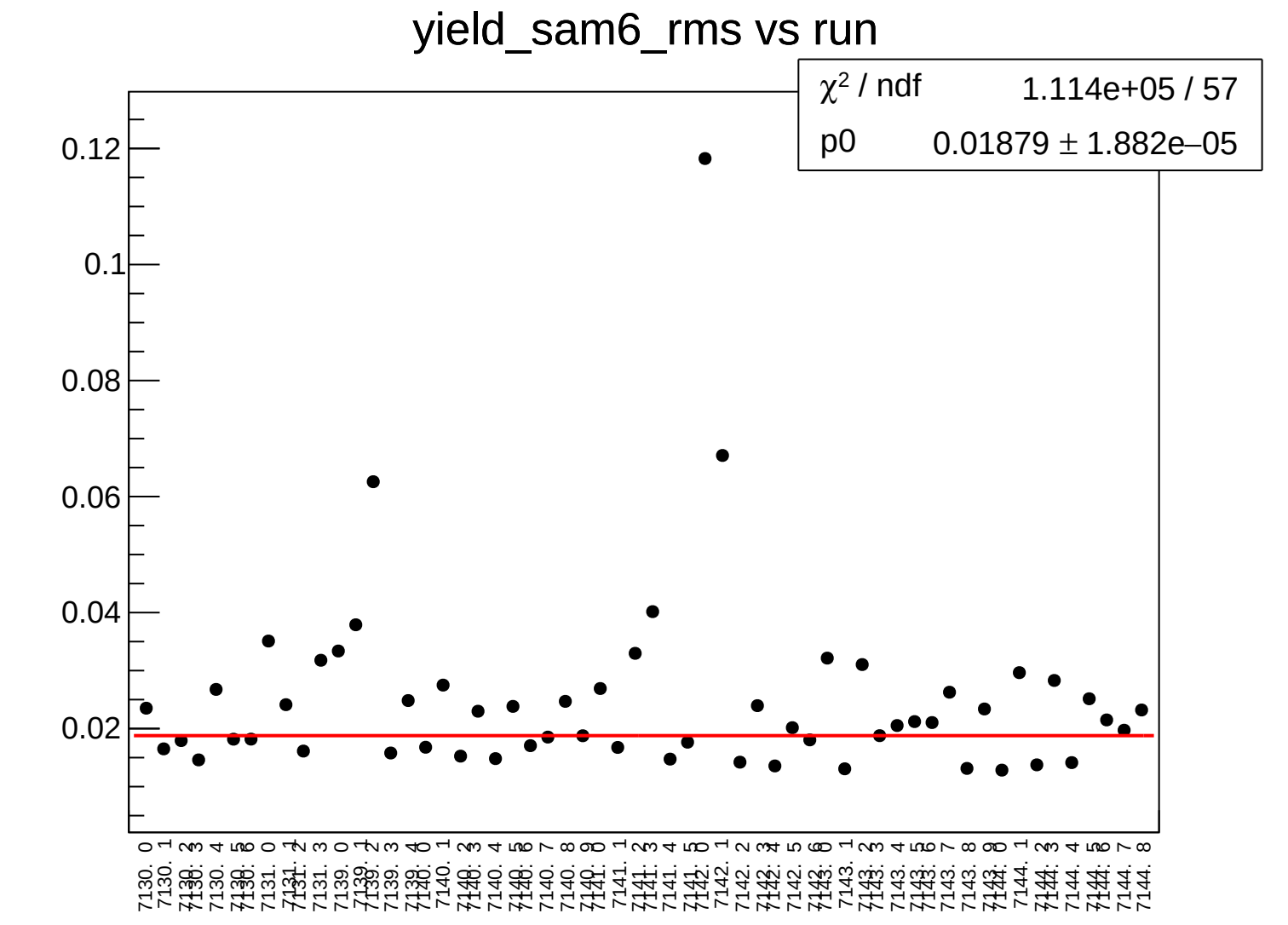

yield_sam5_mean vs run
χ² / ndf 2.057e+06 / 57
p0 17.85 ± 4.162e−05
18
17.9
17.8
17.7
17.6
17.5
17.4
pull
Entries 58
Mean 45.76
Std Dev 30.99
400
200
0
−200
−400
−600

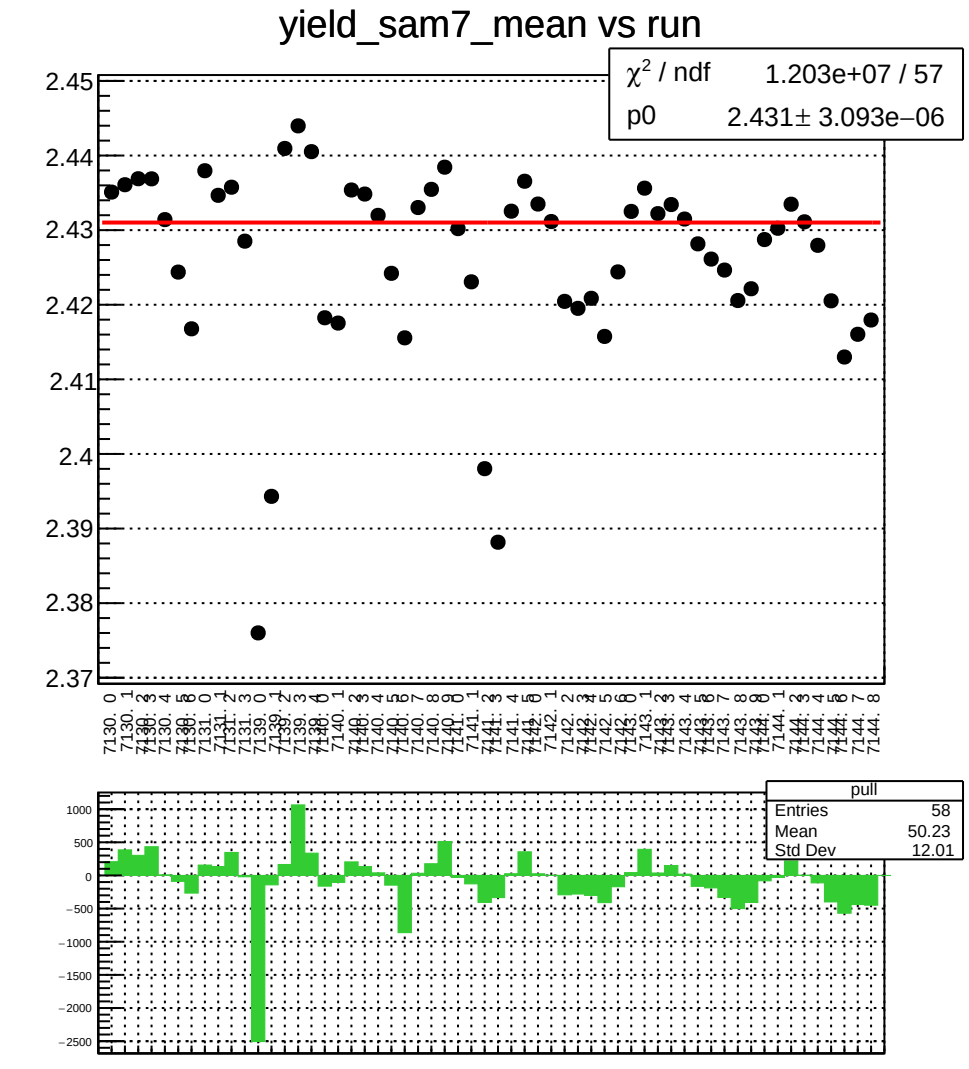

pull1D
Entries 58
Mean −1.995
Std Dev 3.818
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

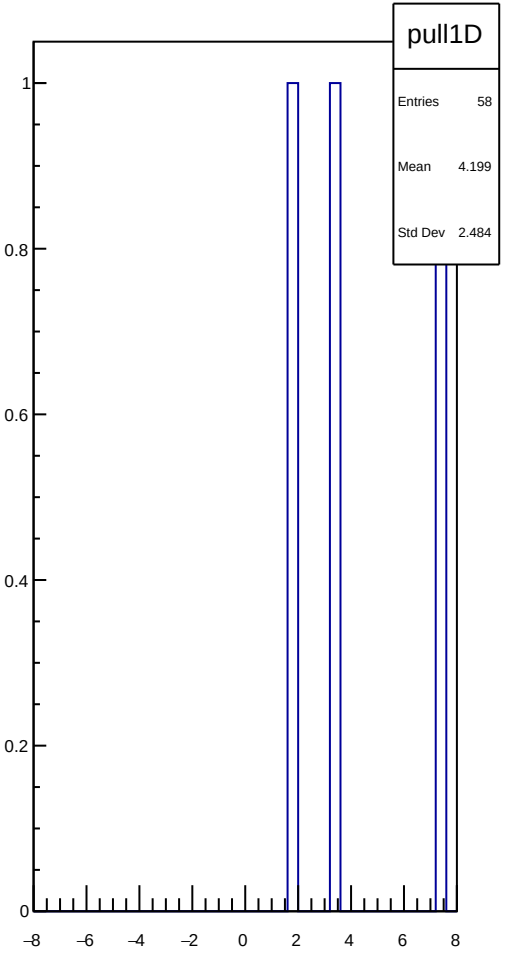

yield_sam5_rms vs run
χ² / ndf 1.152e+05 / 57
p0 0.02932 ± 2.943e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

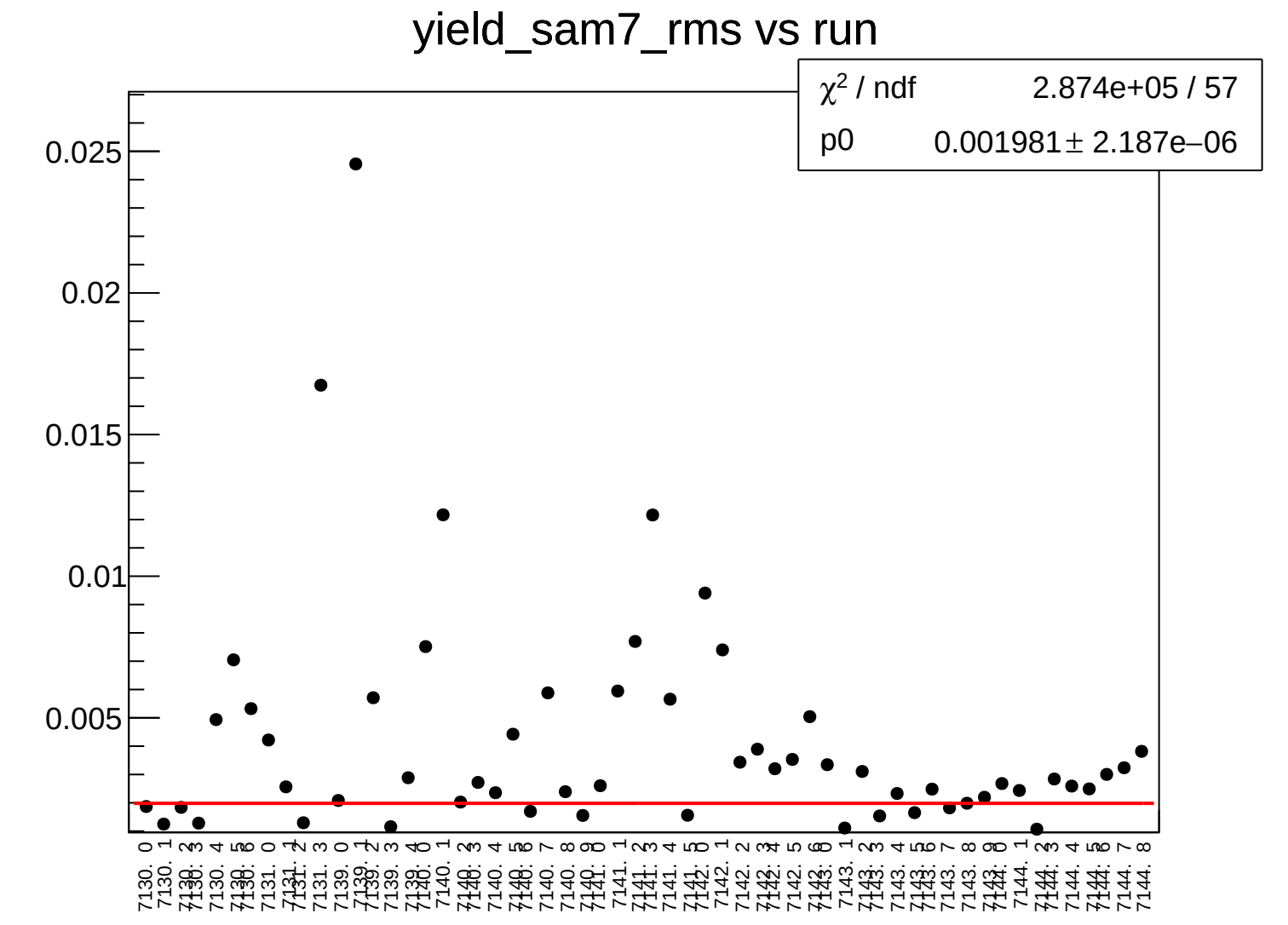

yield_sam6_mean vs run
χ² / ndf 5.813e+05 / 57
p0 8.759 ± 2.662e−05
8.84
8.82
8.8
8.78
8.76
8.74
8.72
8.7
8.68
pull
Entries 58
Mean 26.13
Std Dev 46.36
300
200
100
0
−100
−200

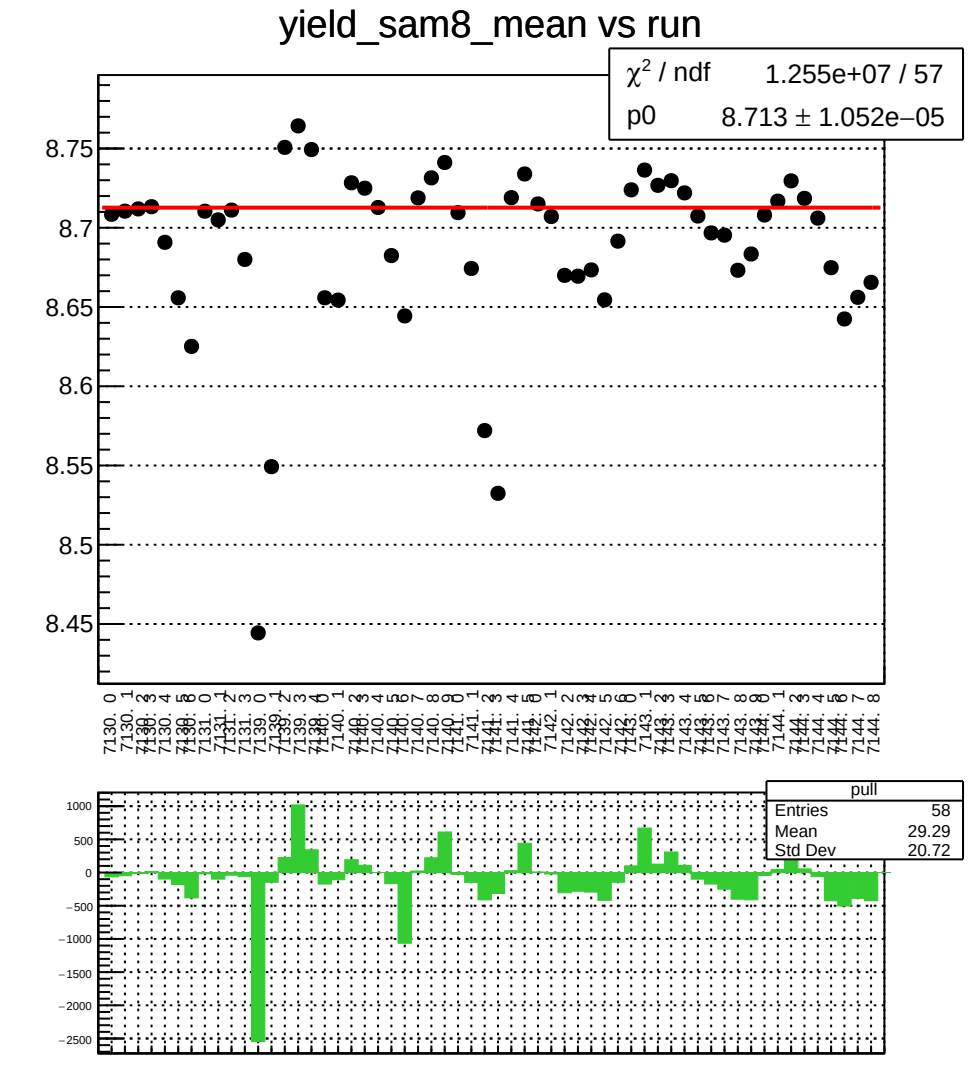

pull1D
Entries 58
Mean 1.076
Std Dev 1.85
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

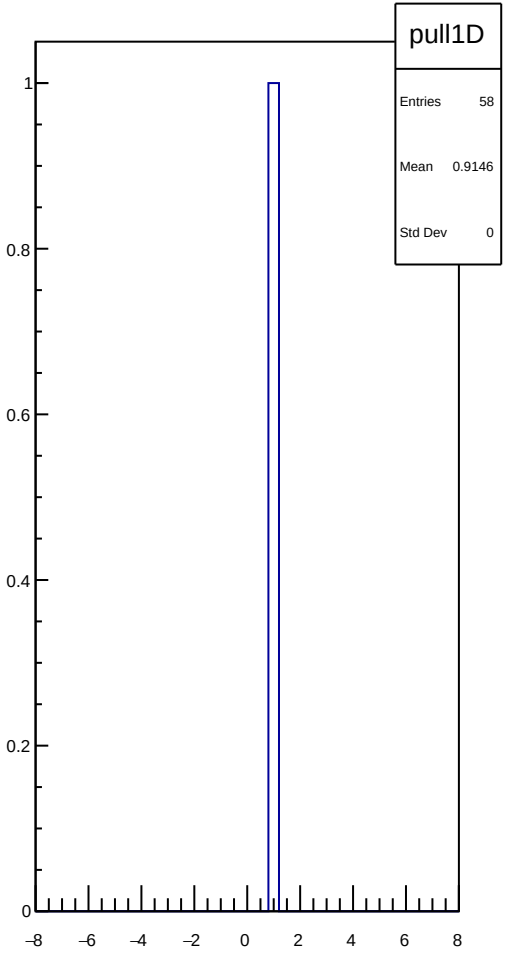

yield_sam6_rms vs run
χ² / ndf 1.114e+05 / 57
p0 0.01879 ± 1.882e−05
0.12
0.1
0.08
0.06
0.04
0.02

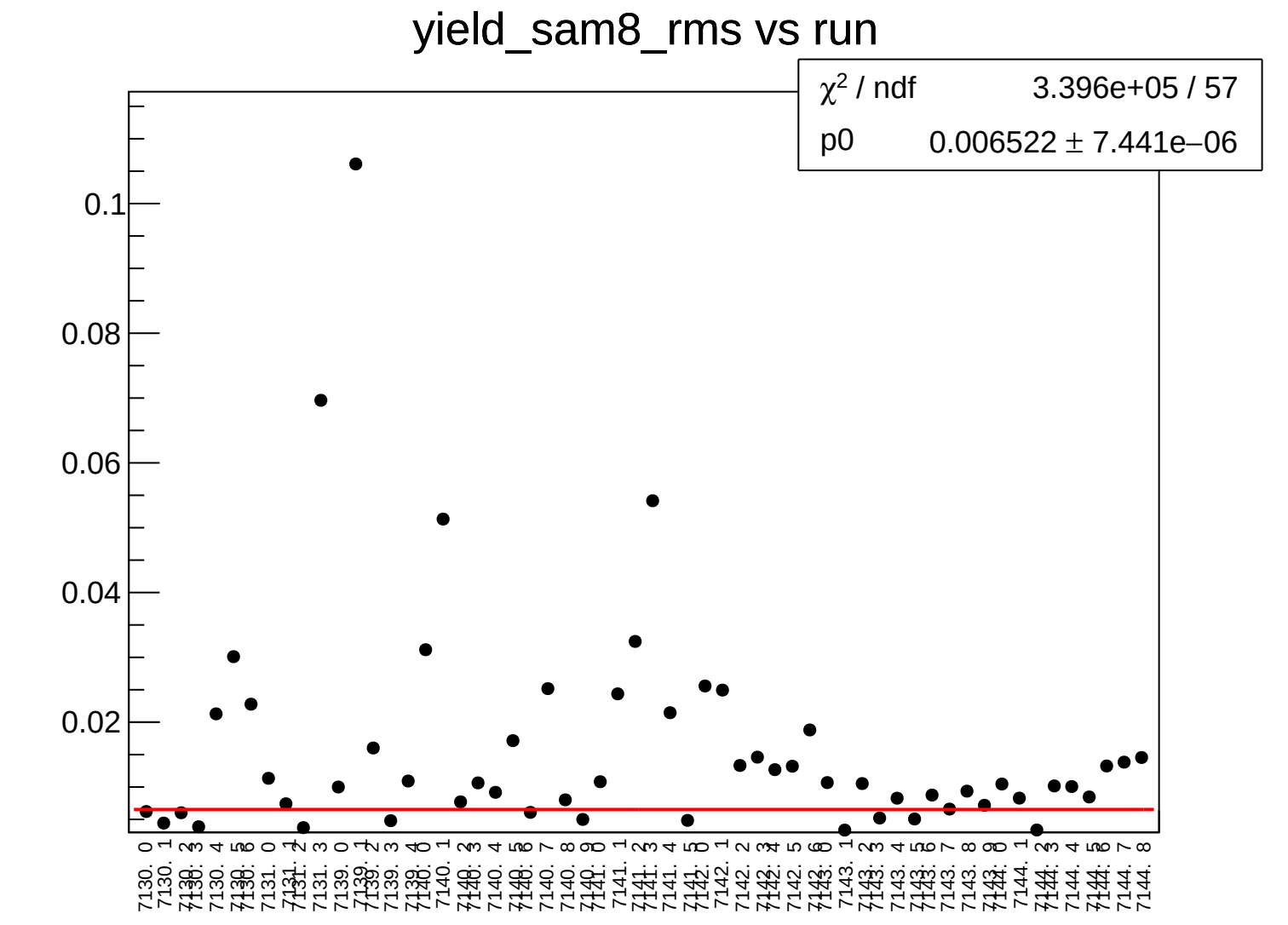

yield_sam7_mean vs run
χ² / ndf 1.203e+07 / 57
p0 2.431± 3.093e−06
2.45
2.44
2.43
2.42
2.41
2.4
2.39
2.38
2.37
pull
Entries 58
Mean 50.23
Std Dev 12.01
1000
500
0
−500
−1000
−1500
−2000
−2500

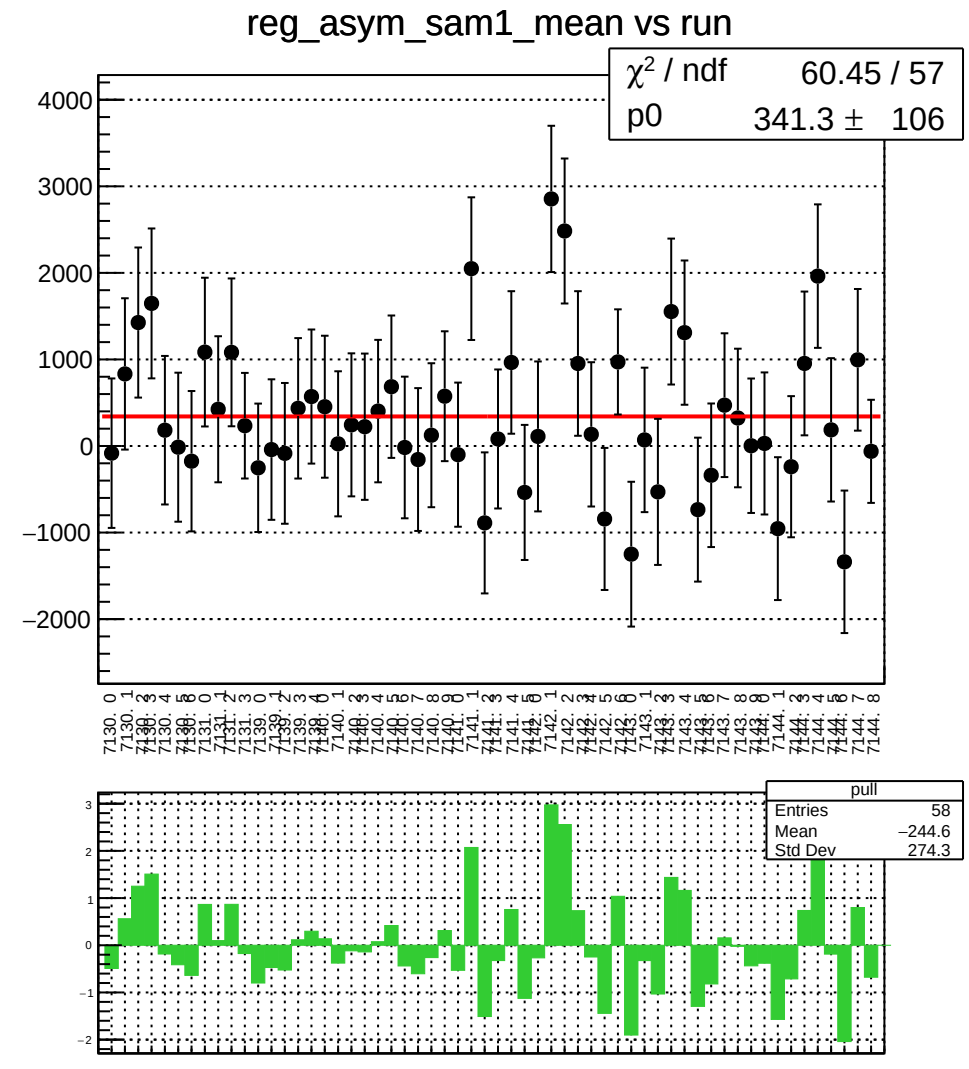

pull1D
Entries 58
Mean 4.199
Std Dev 2.484
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

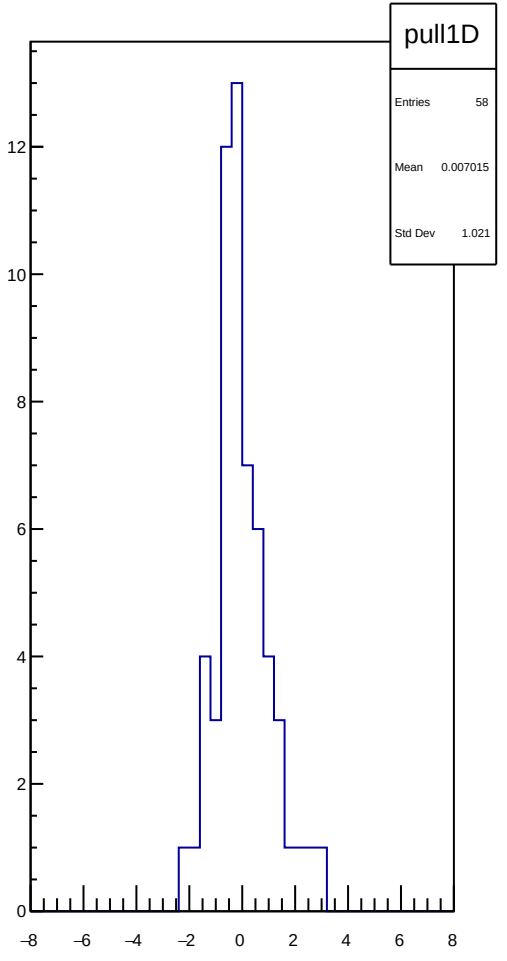

yield_sam7_rms vs run
χ² / ndf 2.874e+05 / 57
p0 0.001981 ± 2.187e−06
0.025
0.02
0.015
0.01
0.005

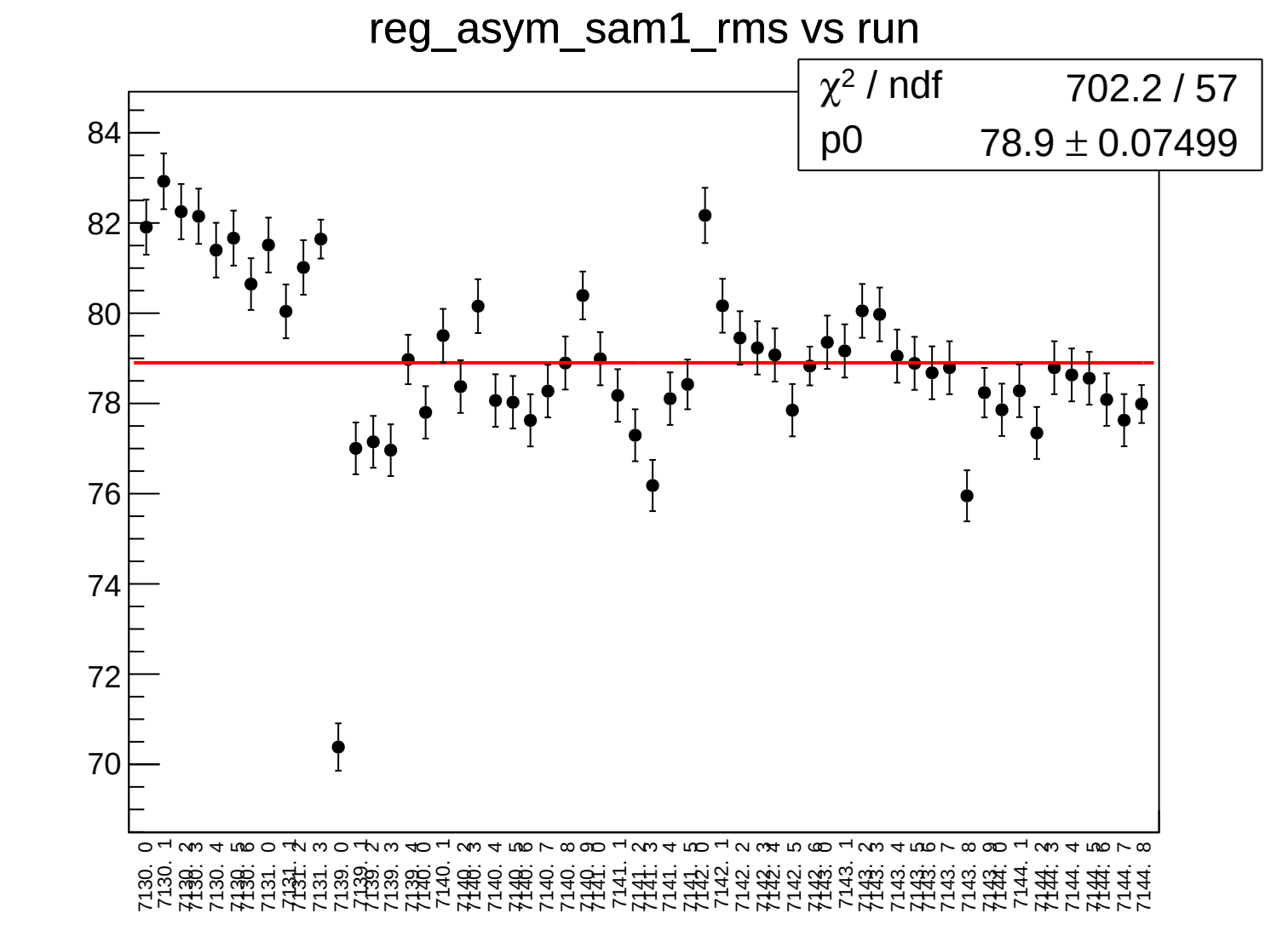

yield_sam8_mean vs run
χ² / ndf 1.255e+07 / 57
p0 8.713 ± 1.052e−05
8.75
8.7
8.65
8.6
8.55
8.5
8.45
pull
Entries 58
Mean 29.29
Std Dev 20.72
1000
500
0
−500
−1000
−1500
−2000
−2500

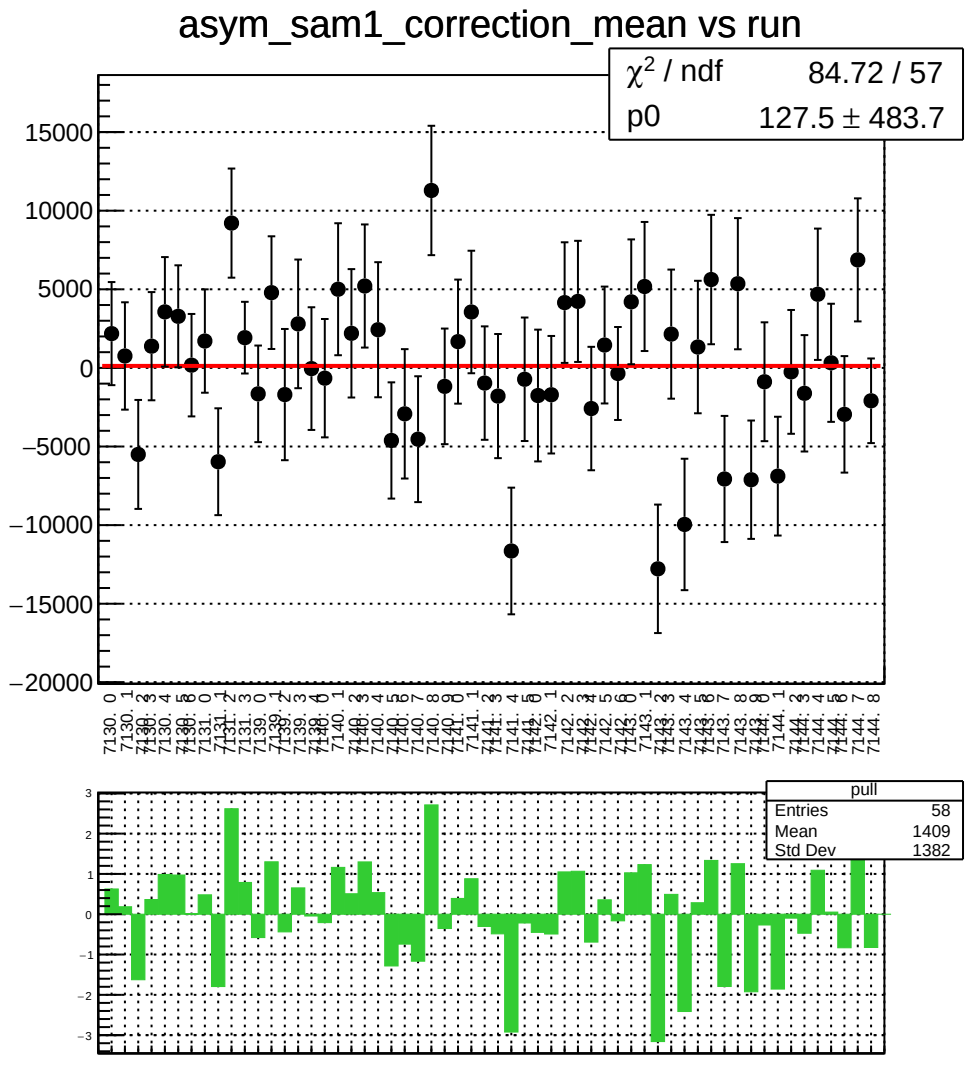

pull1D
Entries 58
Mean 0.9146
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

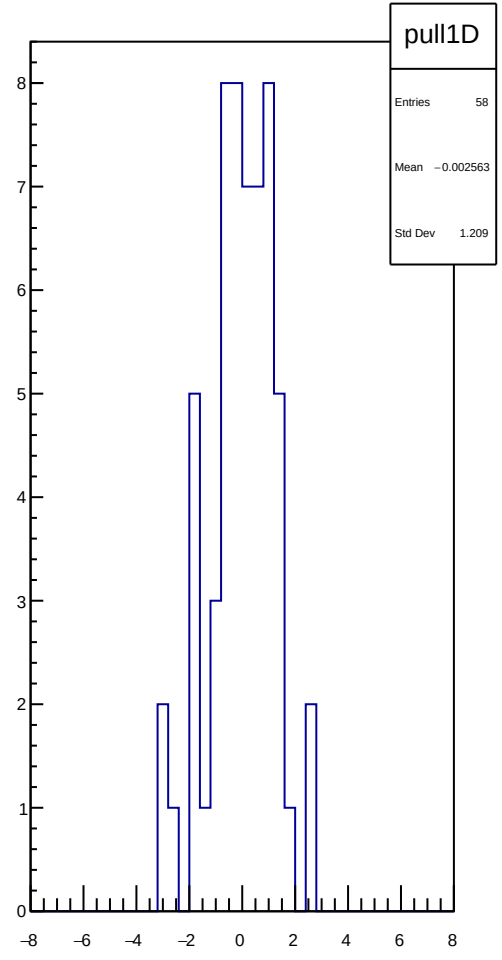

yield_sam8_rms vs run
χ^2 / ndf 3.396e+05 / 57
p0 0.006522 ± 7.441e−06
0.1
0.08
0.06
0.04
0.02

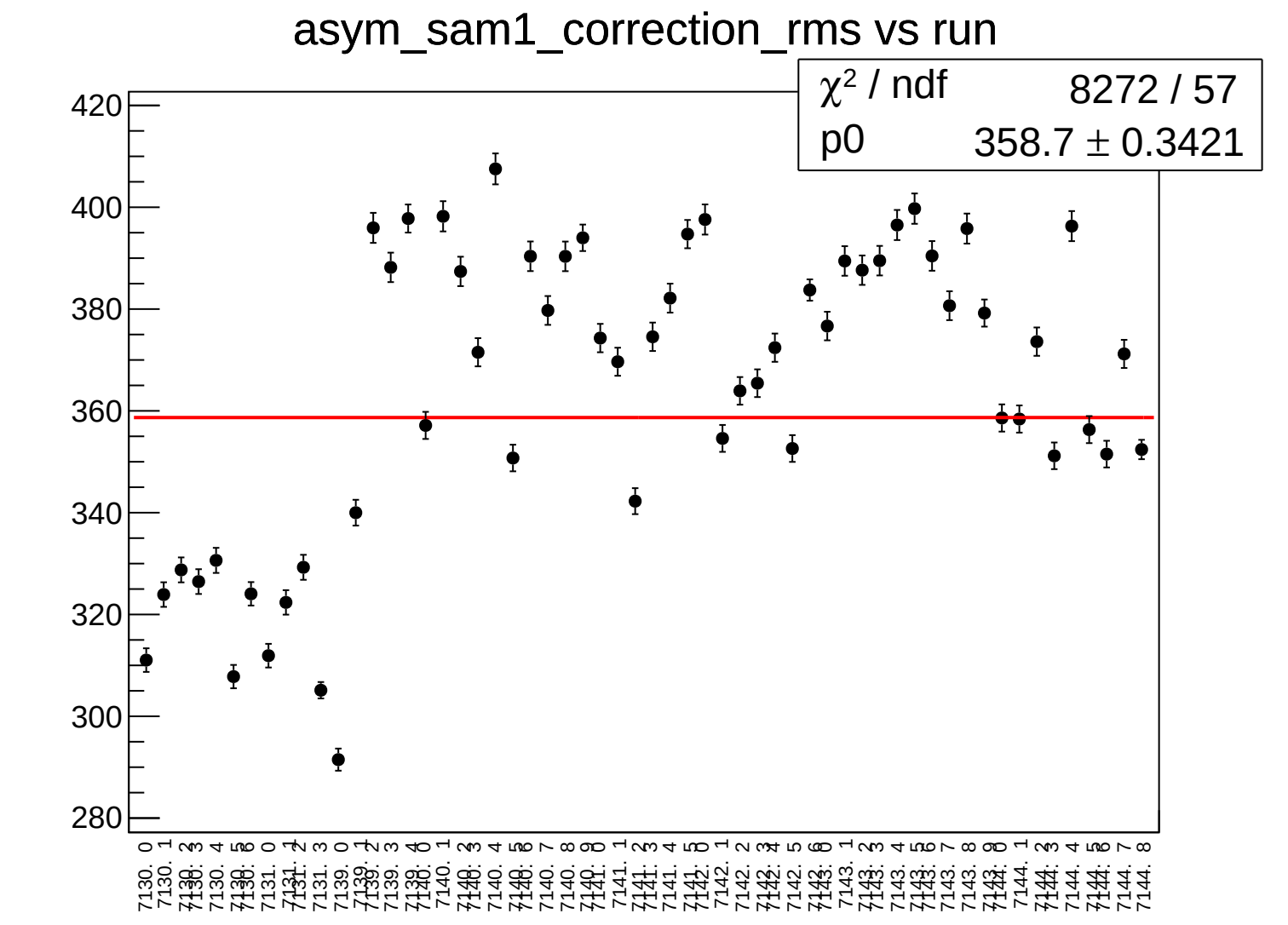

reg_asym_sam1_mean vs run
χ² / ndf 60.45 / 57
p0 341.3 ± 106
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 58
Mean −244.6
Std Dev 274.3
3
2
1
0
−1
−2

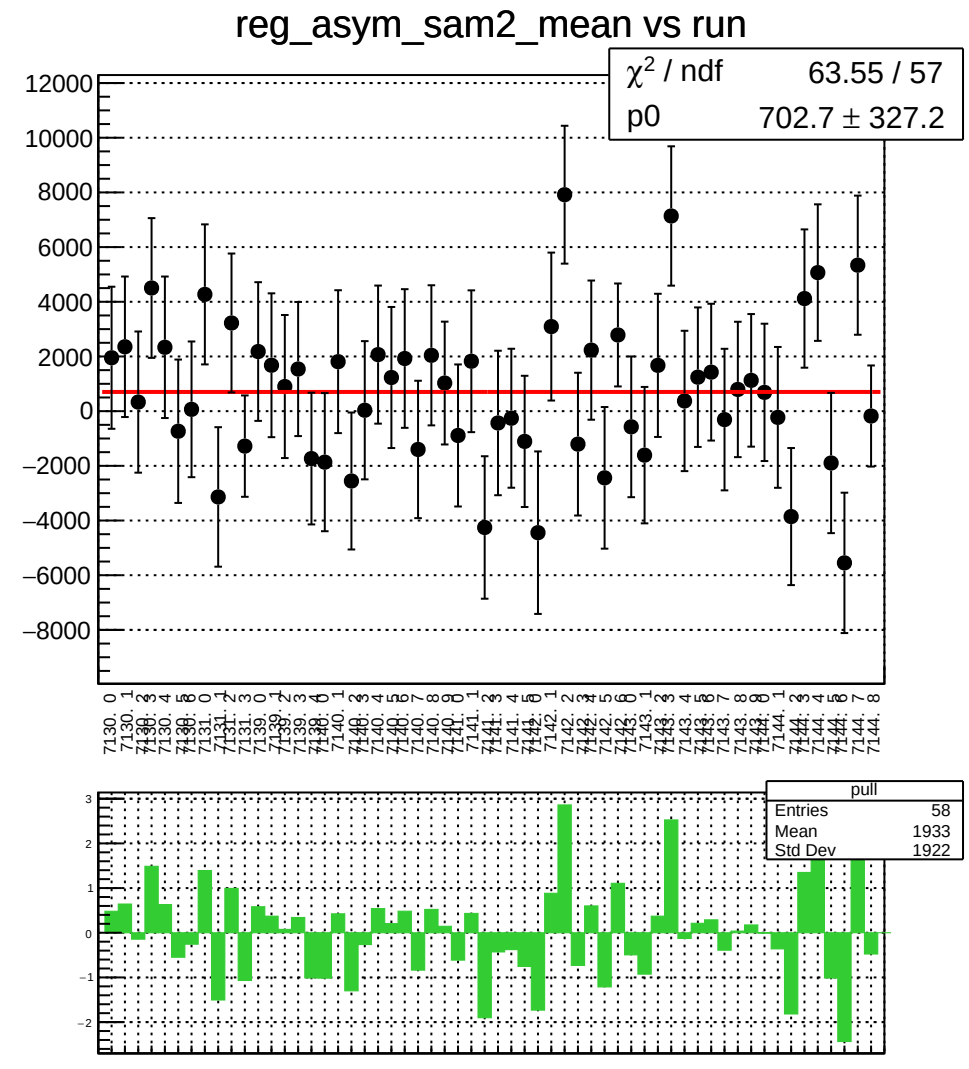

pull1D
Entries 58
Mean 0.007015
Std Dev 1.021
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

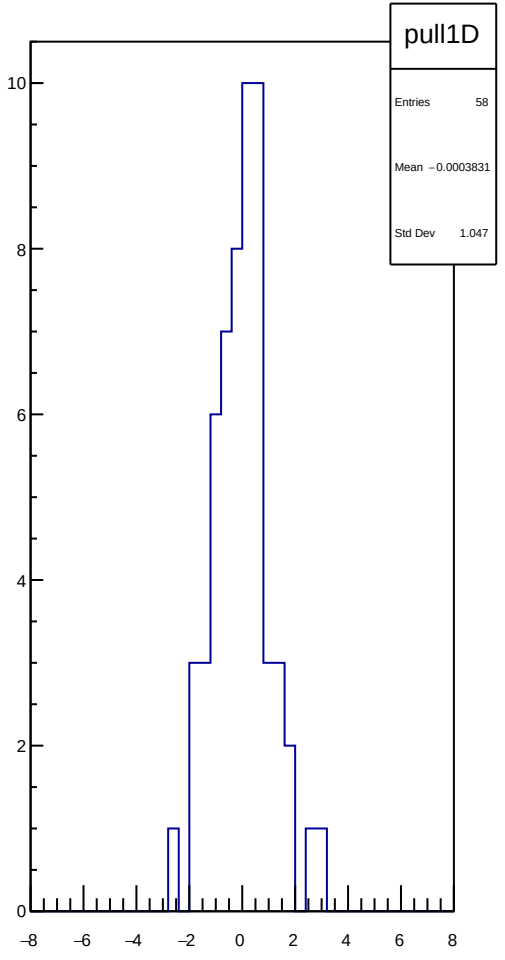

reg_asym_sam1_rms vs run
χ² / ndf 702.2 / 57
p0 78.9 ± 0.07499
84
82
80
78
76
74
72
70

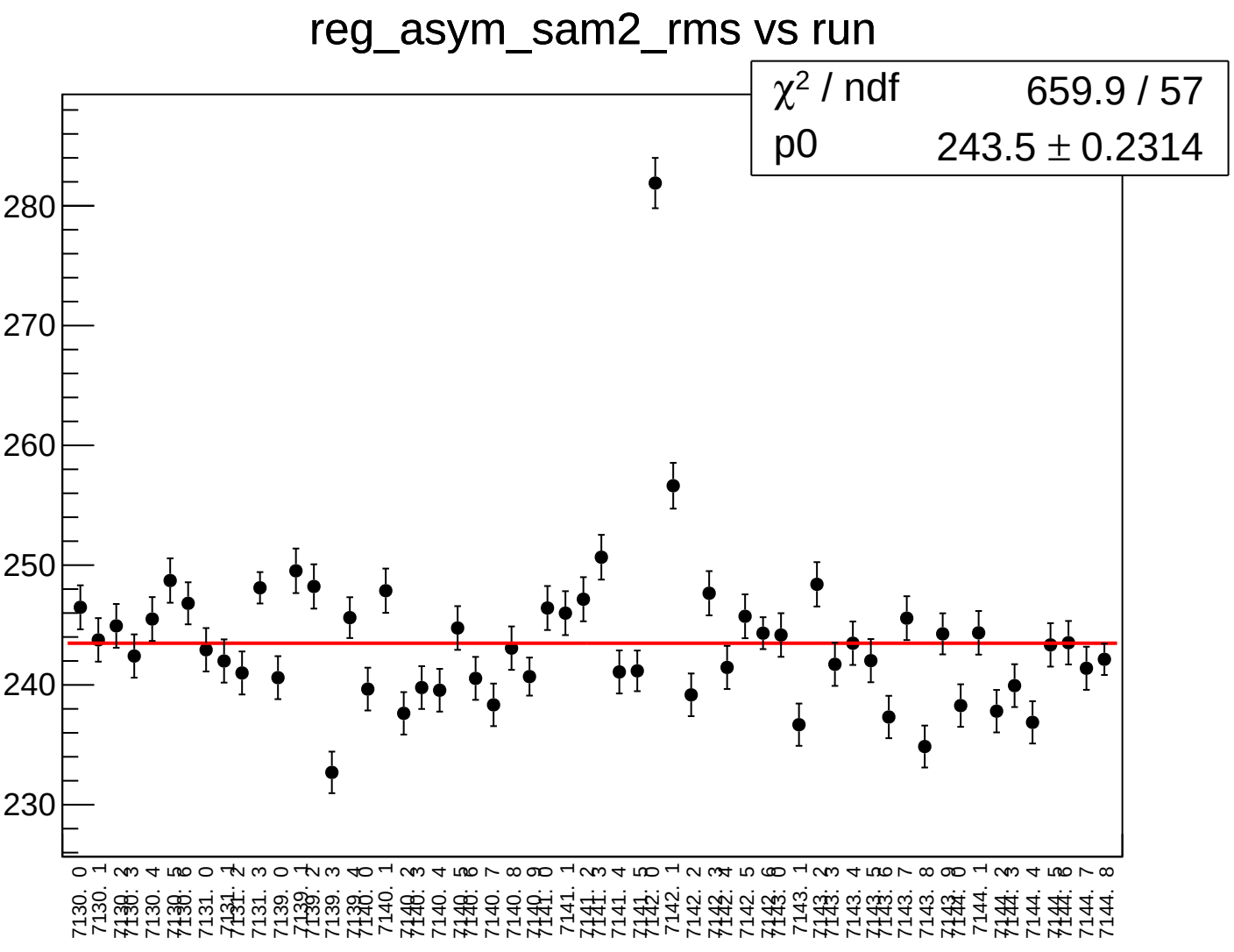

asym_sam1_correction_mean vs run
χ² / ndf 84.72 / 57
p0 127.5 ± 483.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 58
Mean 1409
Std Dev 1382
3
2
1
0
−1
−2
−3

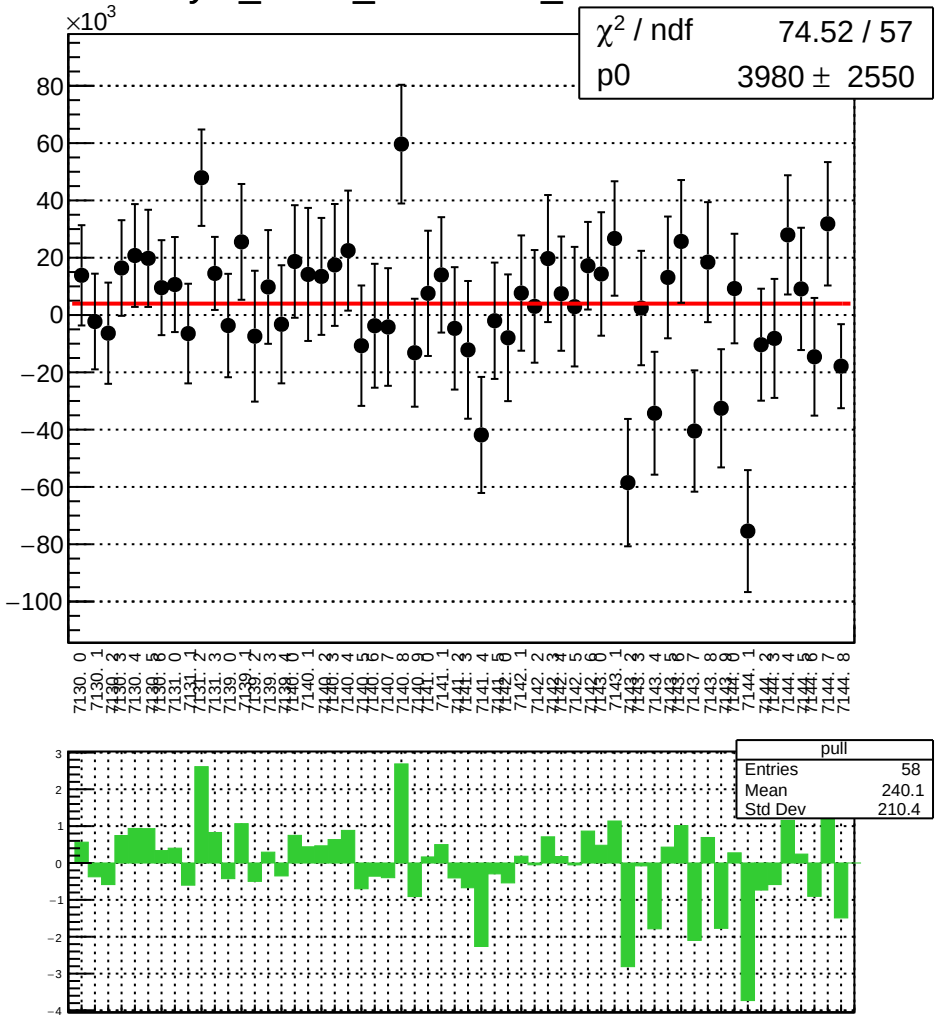

pull1D
Entries 58
Mean −0.002563
Std Dev 1.209
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

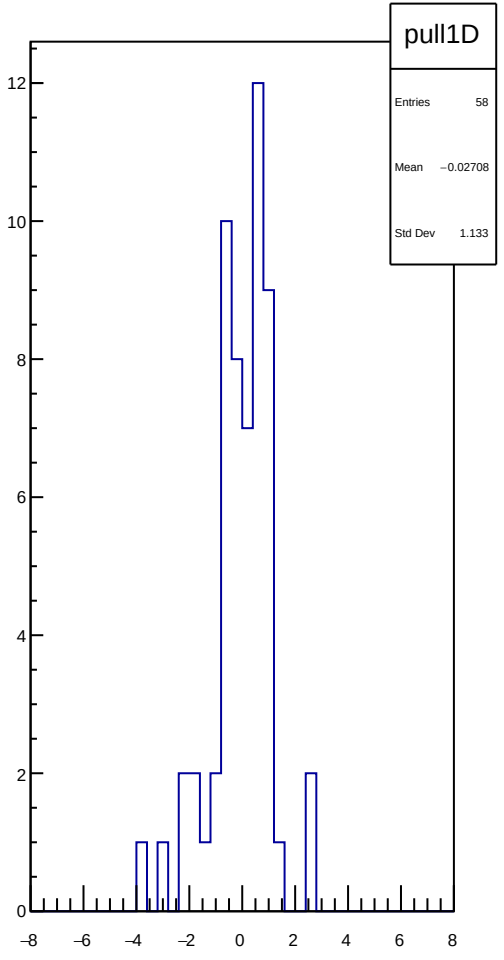

asym_sam1_correction_rms vs run
χ² / ndf 8272 / 57
p0 358.7 ± 0.3421
420
400
380
360
340
320
300
280

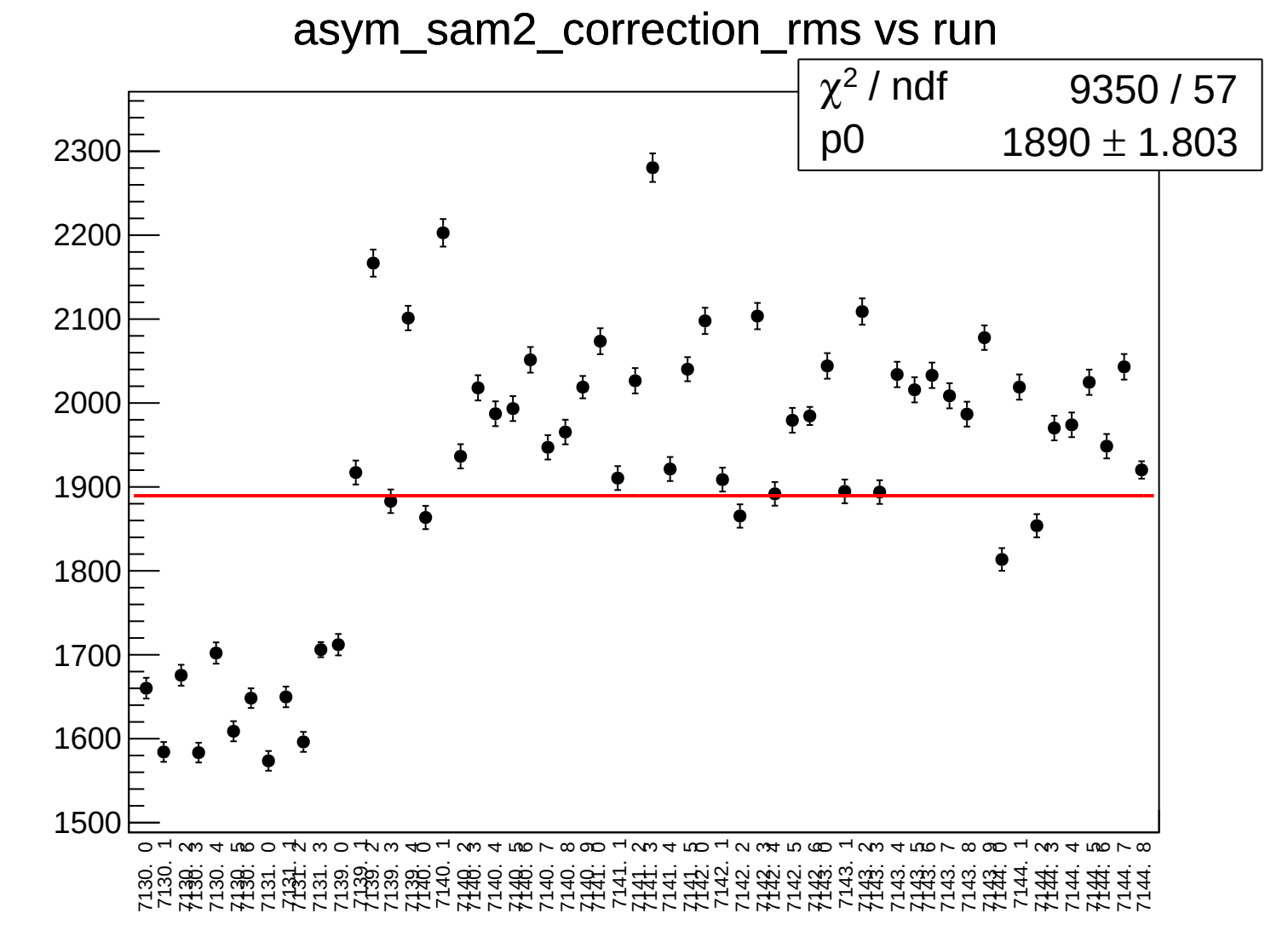

reg_asym_sam2_mean vs run
χ^2 / ndf 63.55 / 57
p0 702.7 ± 327.2
pull
Entries 58
Mean 1933
Std Dev 1922

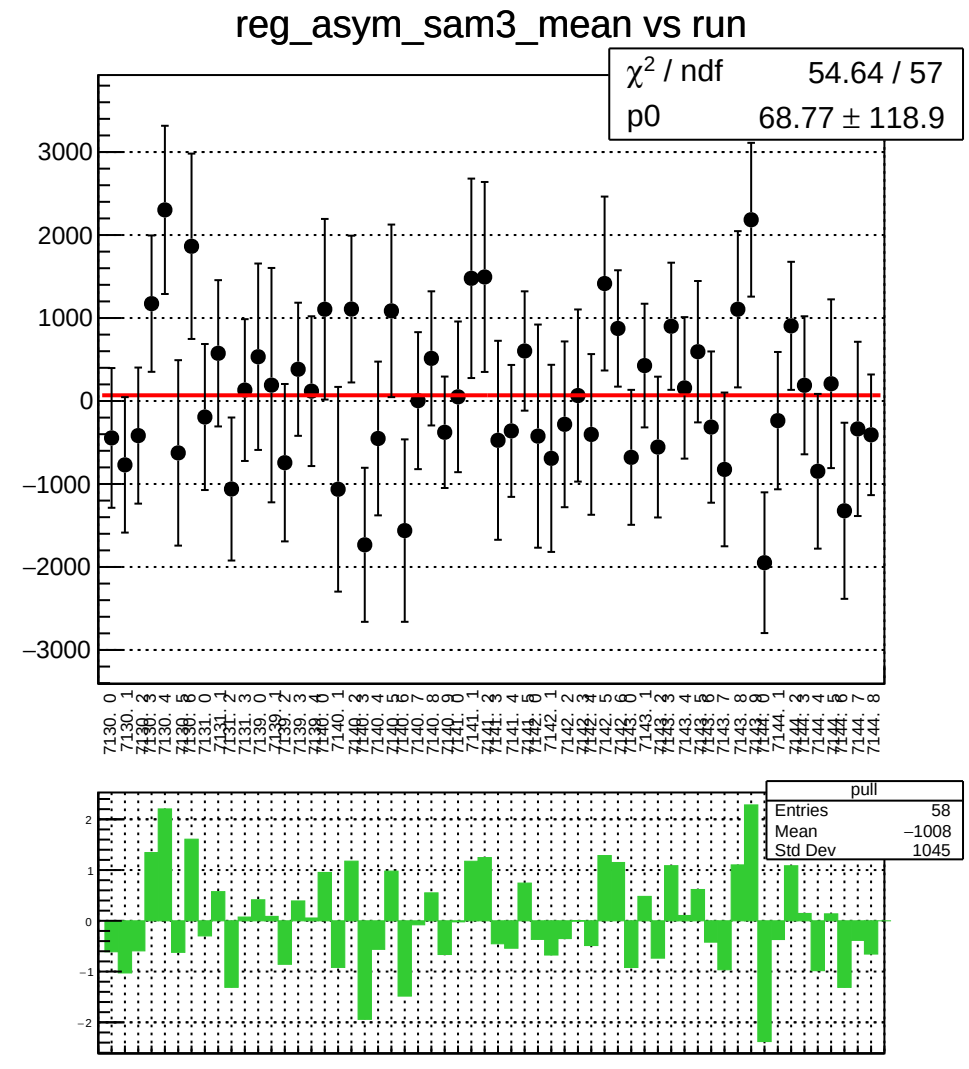

pull1D
Entries 58
Mean −0.0003831
Std Dev 1.047

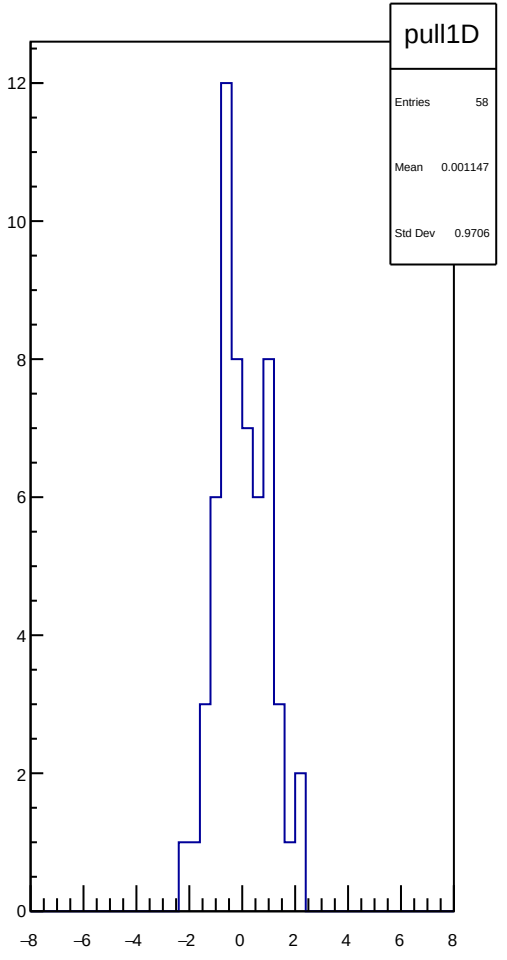

reg_asym_sam2_rms vs run
χ^2 / ndf 659.9 / 57
p0 243.5 ± 0.2314
280
270
260
250
240
230

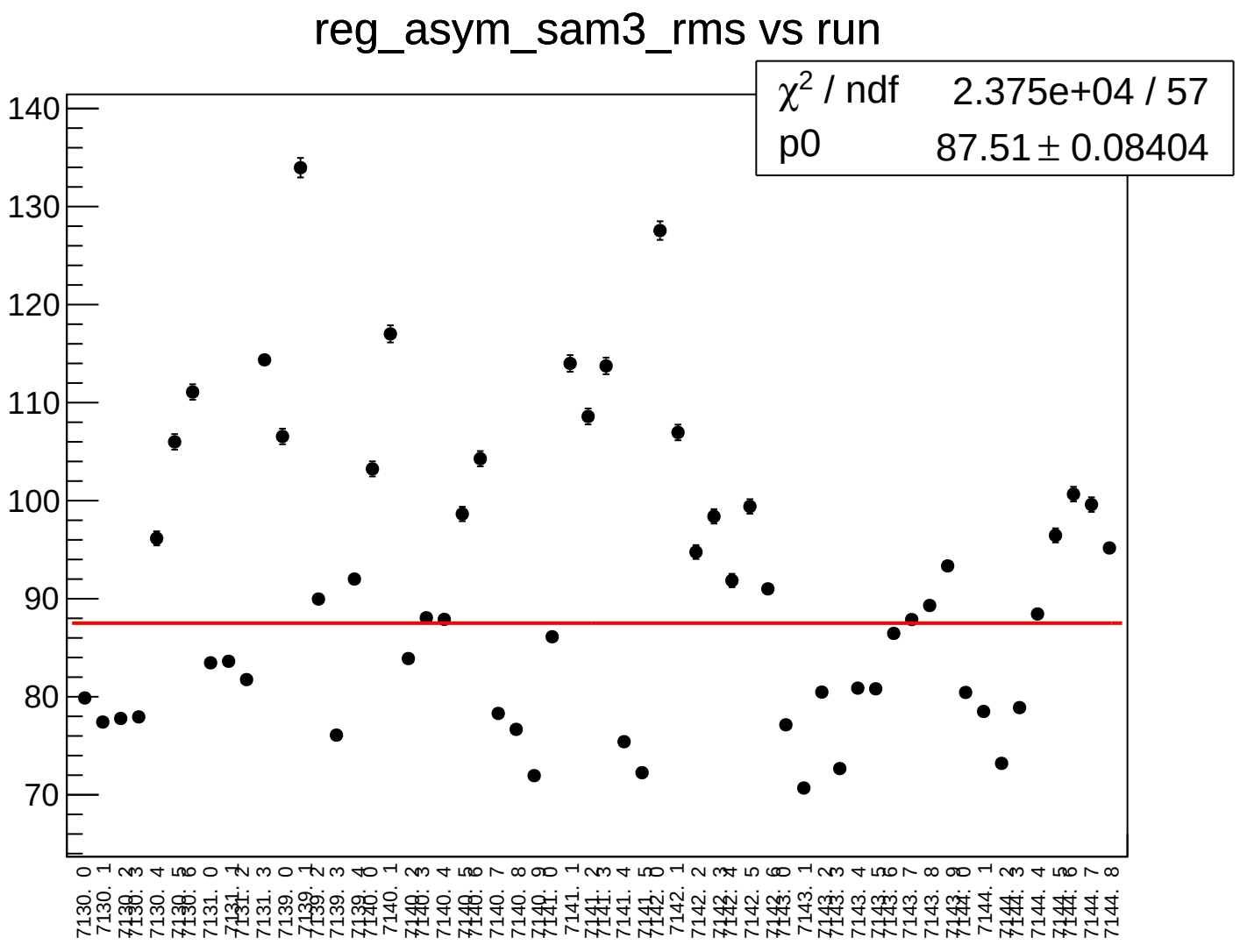

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 74.52 / 57
p0 3980 ± 2550
pull
Entries 58
Mean 240.1
Std Dev 210.4

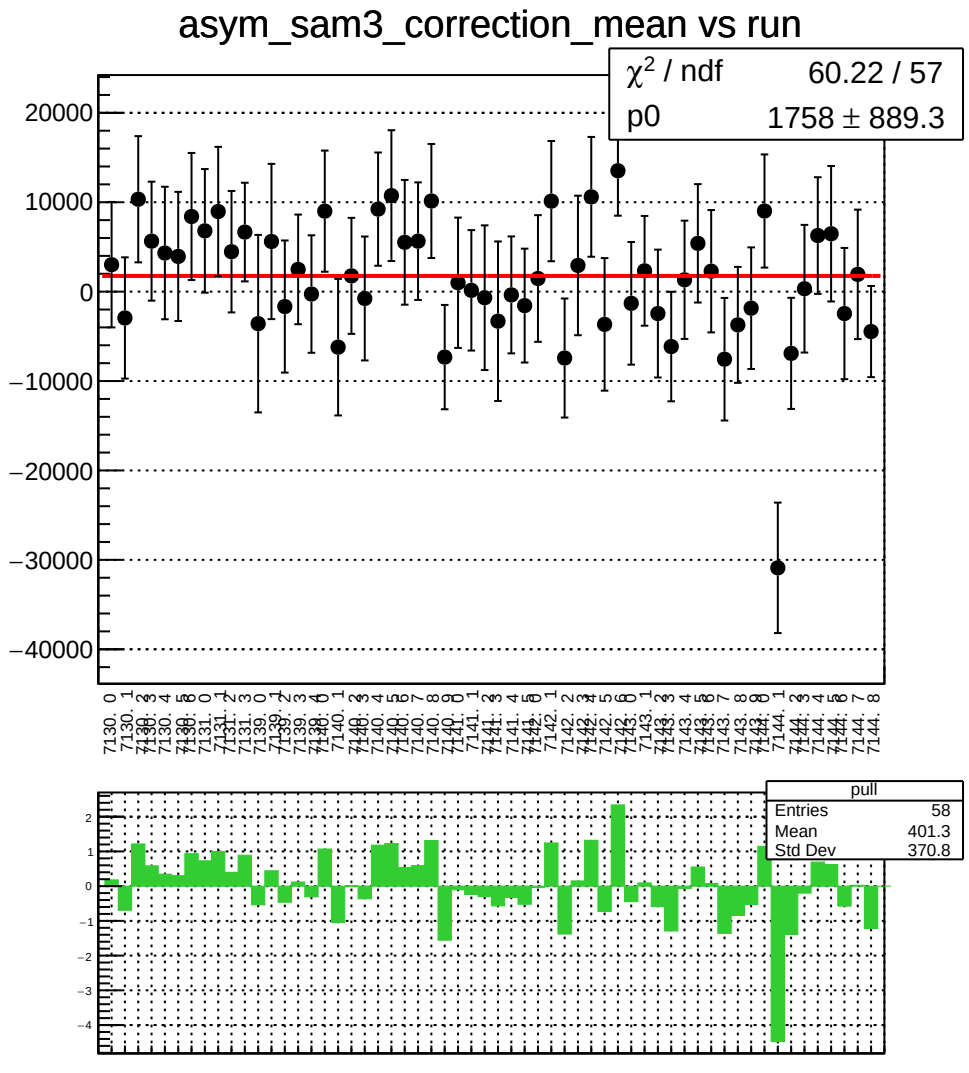

pull1D
Entries 58
Mean −0.02708
Std Dev 1.133

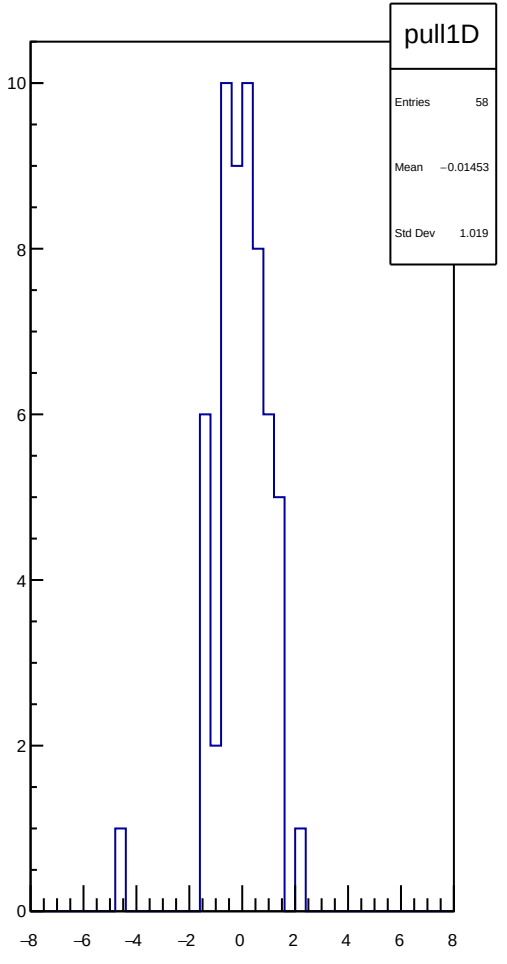

asym_sam2_correction_rms vs run
χ² / ndf 9350 / 57
p0 1890 ± 1.803
2300
2200
2100
2000
1900
1800
1700
1600
1500

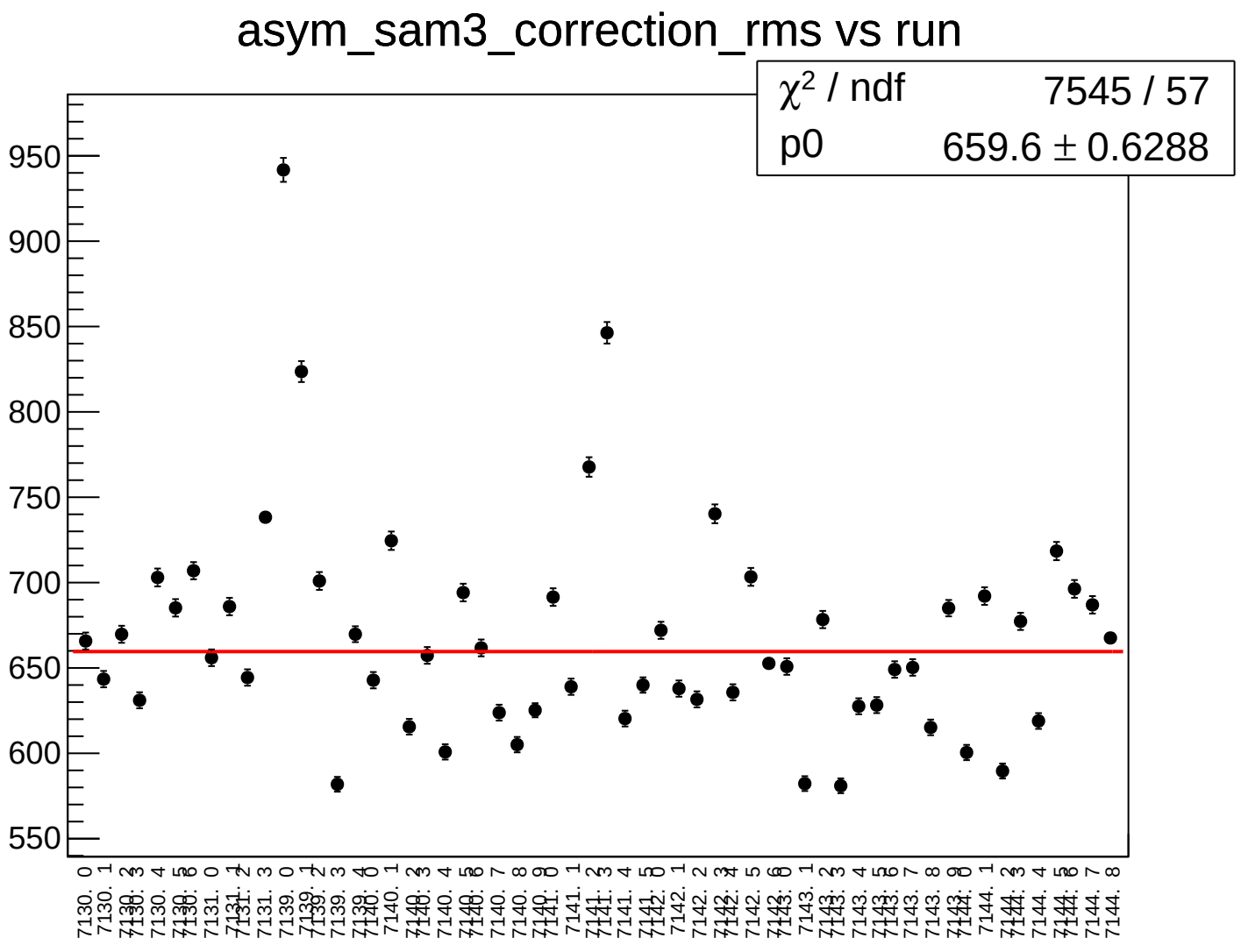

reg_asym_sam3_mean vs run
χ² / ndf 54.64 / 57
p0 68.77 ± 118.9
pull
Entries 58
Mean −1008
Std Dev 1045

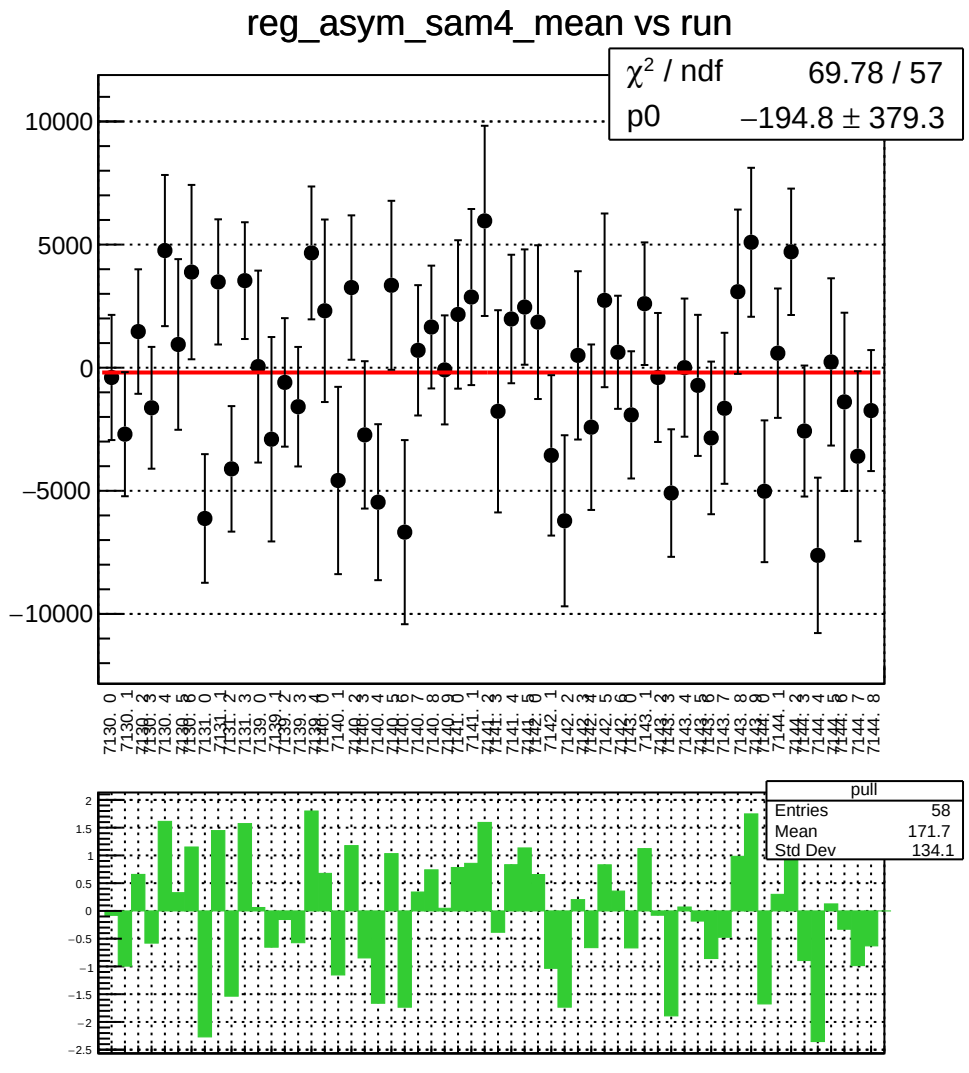

pull1D
Entries 58
Mean 0.001147
Std Dev 0.9706

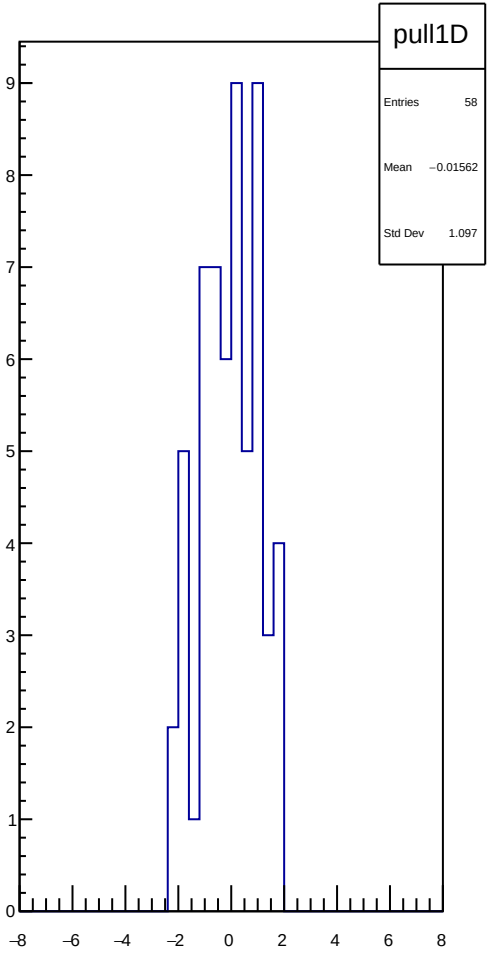

reg_asym_sam3_rms vs run
χ² / ndf 2.375e+04 / 57
p0 87.51 ± 0.08404
140
130
120
110
100
90
80
70

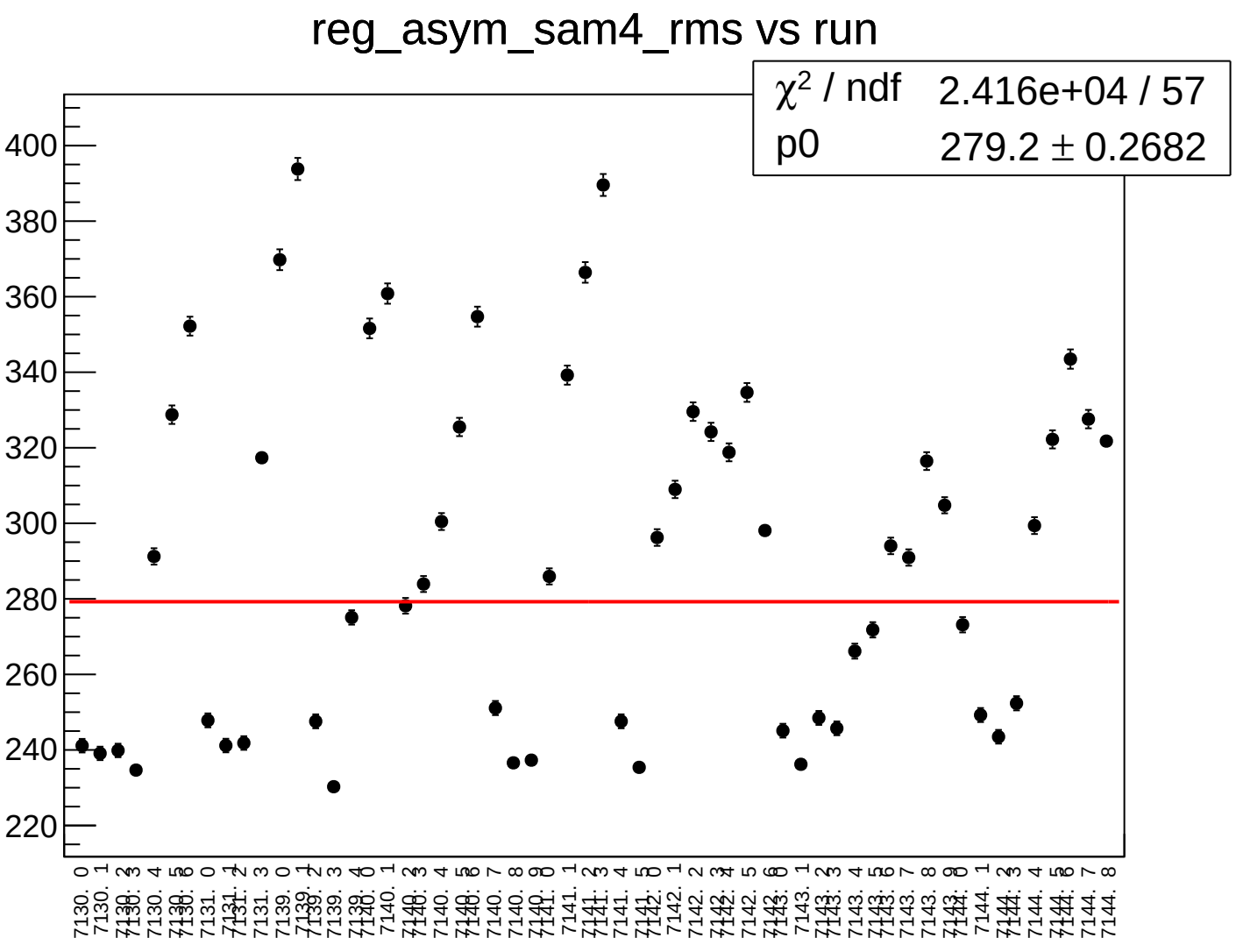

asym_sam3_correction_mean vs run
χ² / ndf 60.22 / 57
p0 1758 ± 889.3
pull
Entries 58
Mean 401.3
Std Dev 370.8

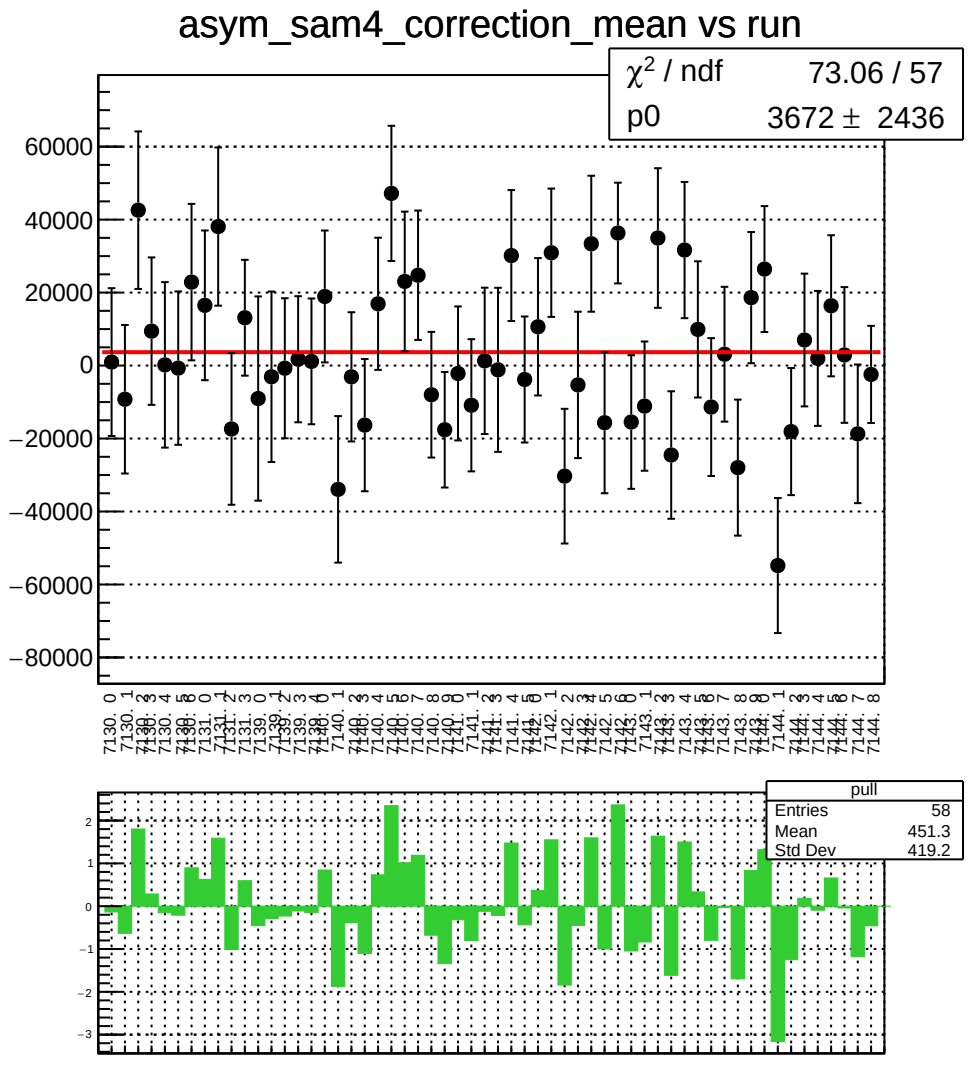

pull1D
Entries 58
Mean −0.01453
Std Dev 1.019

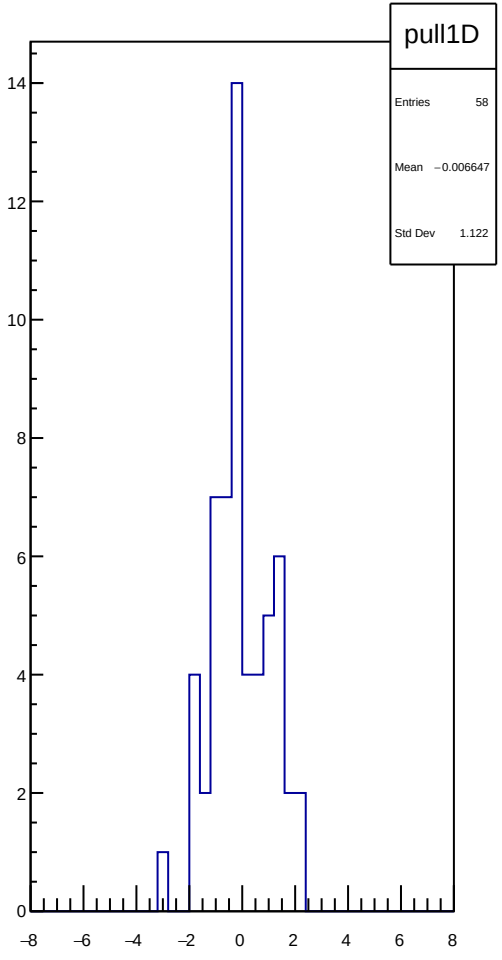

asym_sam3_correction_rms vs run
χ² / ndf 7545 / 57
p0 659.6 ± 0.6288
950
900
850
800
750
700
650
600
550

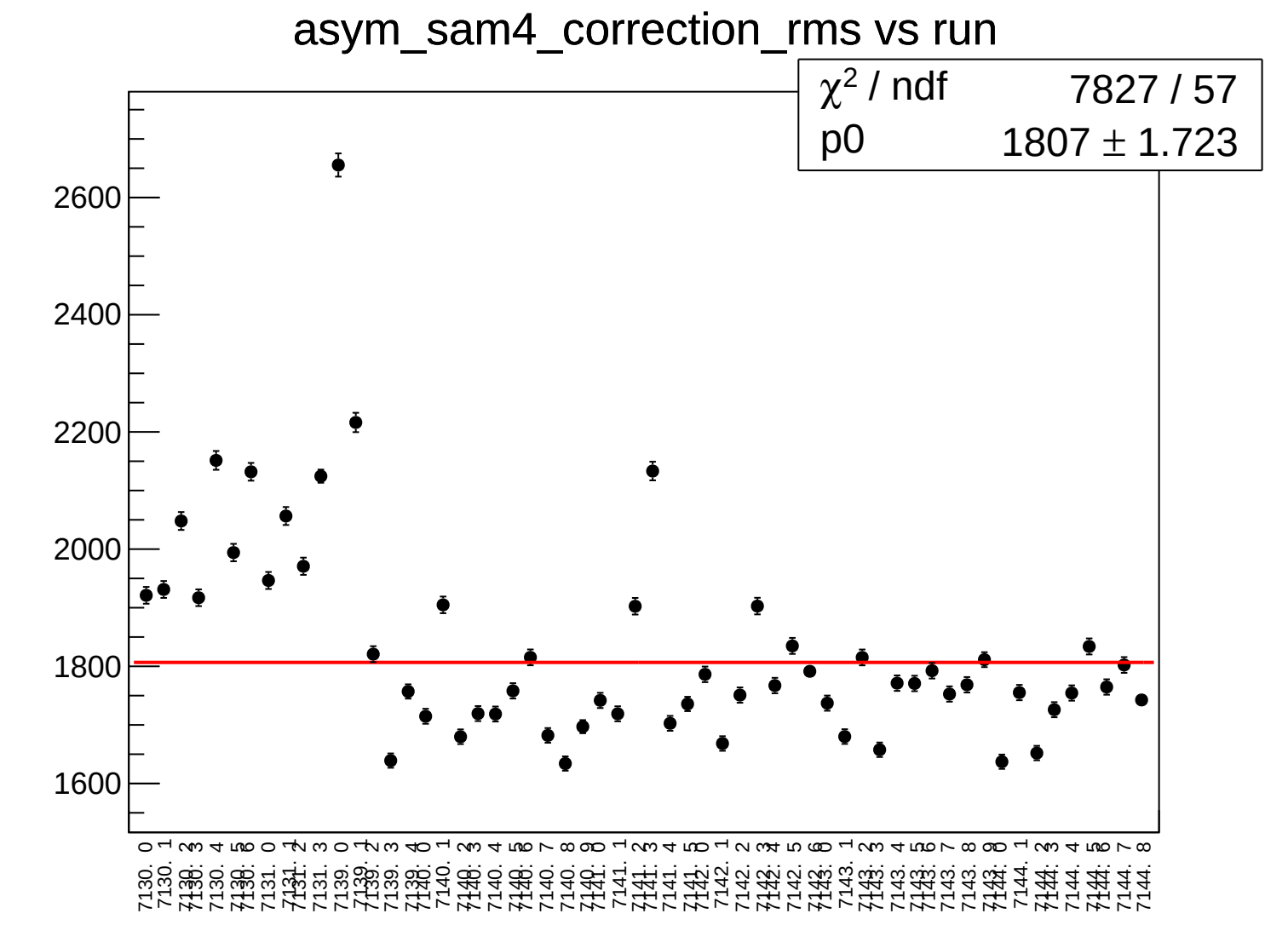

reg_asym_sam4_mean vs run
χ² / ndf 69.78 / 57
p0 −194.8 ± 379.3
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 171.7
Std Dev 134.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

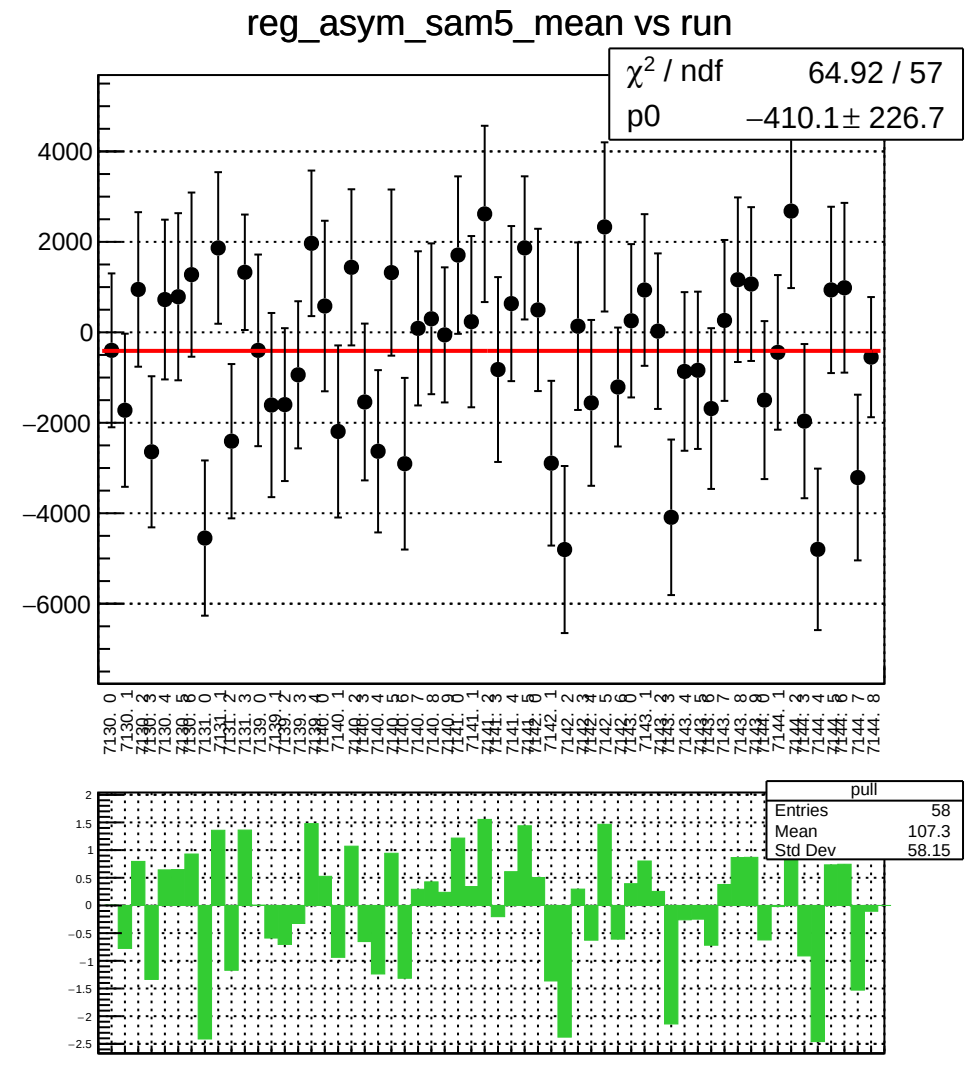

pull1D
Entries 58
Mean −0.01562
Std Dev 1.097
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

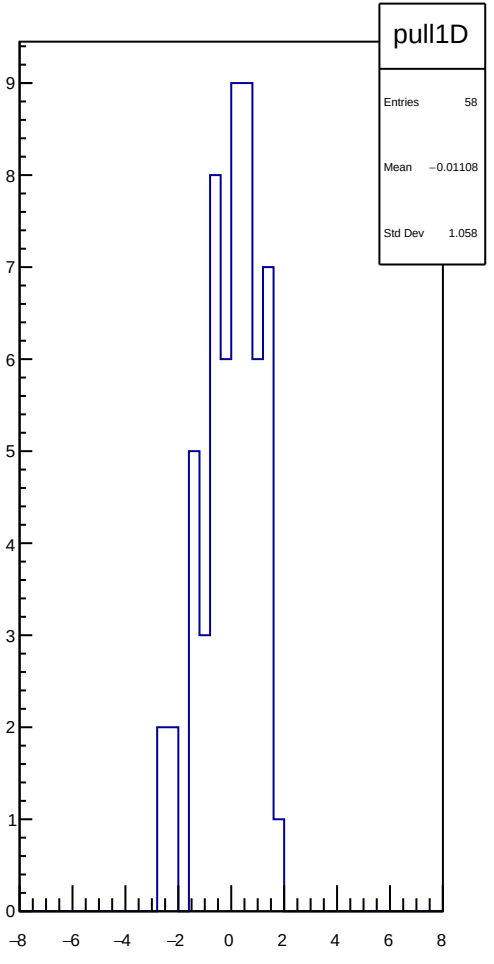

reg_asym_sam4_rms vs run
χ² / ndf 2.416e+04 / 57
p0 279.2 ± 0.2682
400
380
360
340
320
300
280
260
240
220

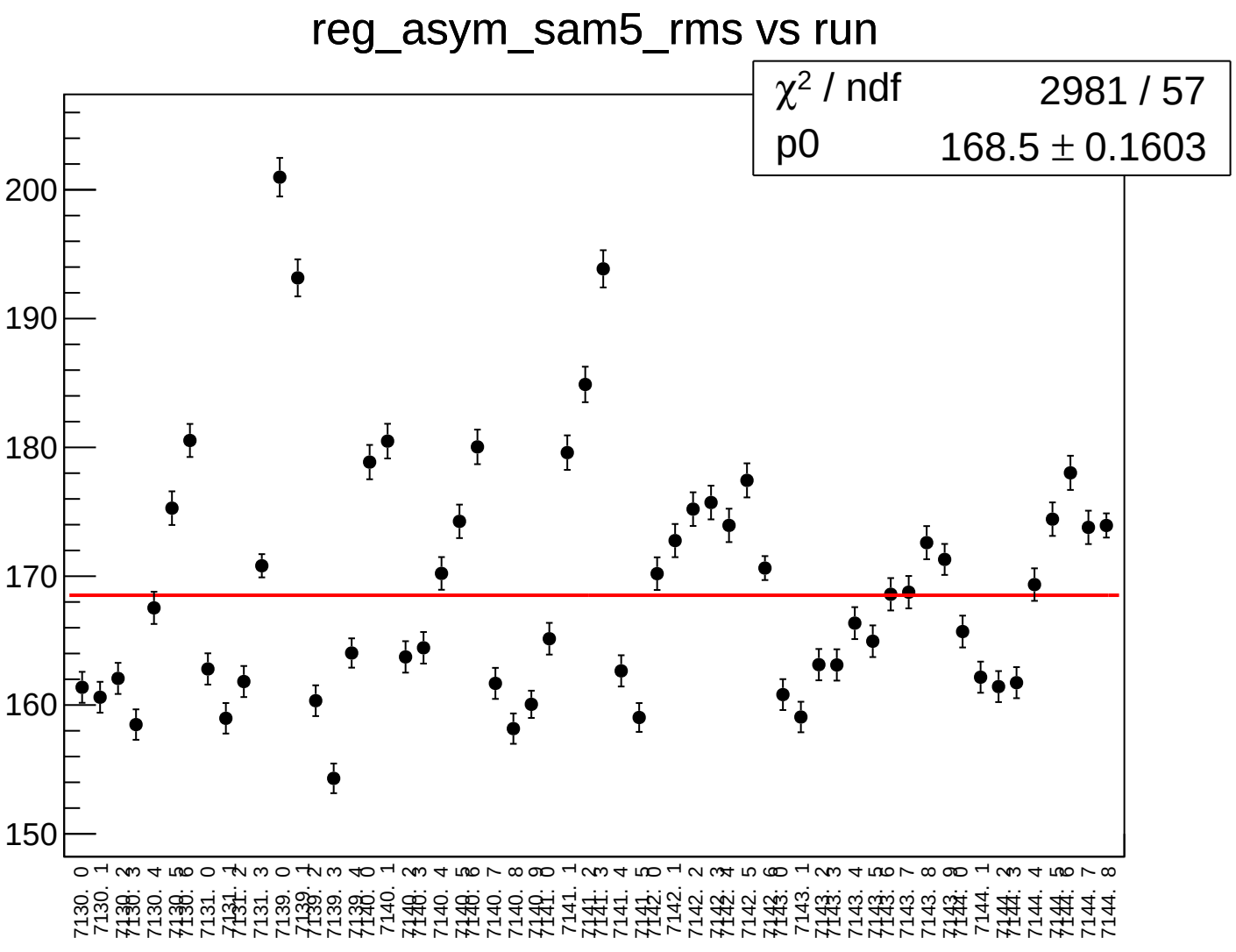

asym_sam4_correction_mean vs run
χ² / ndf 73.06 / 57
p0 3672 ± 2436
pull
Entries 58
Mean 451.3
Std Dev 419.2

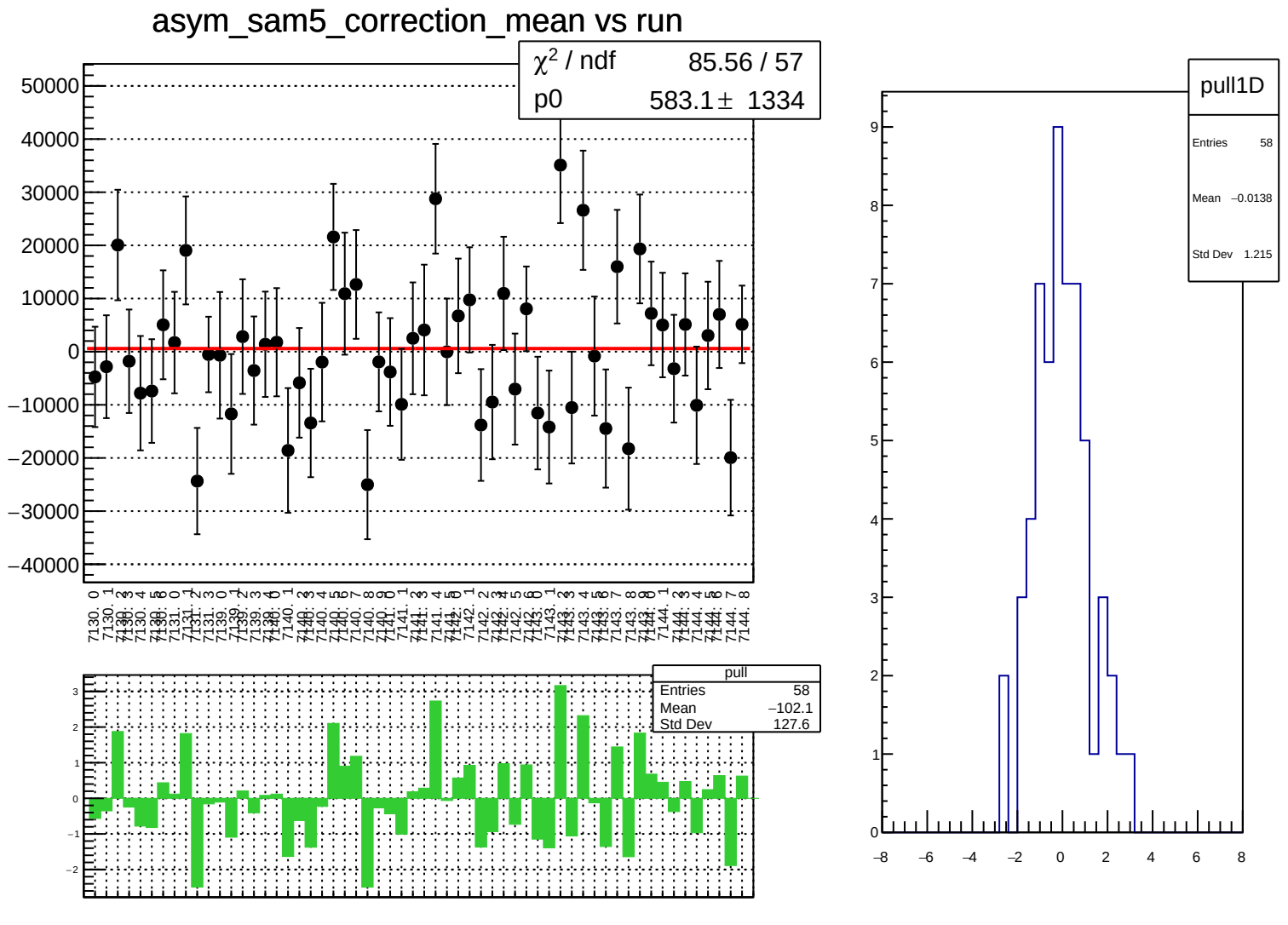

pull1D
Entries 58
Mean −0.006647
Std Dev 1.122

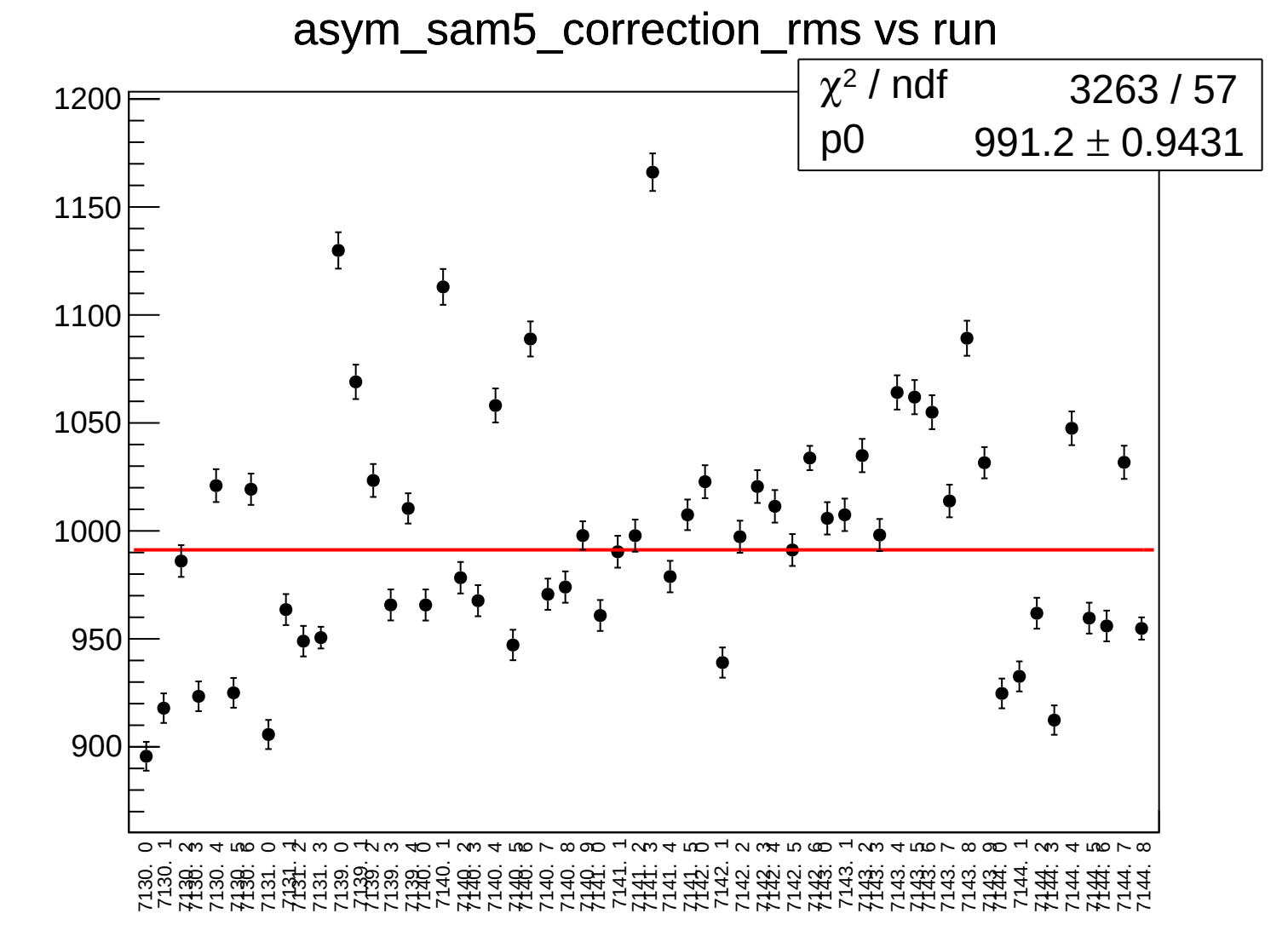

asym_sam4_correction_rms vs run
χ² / ndf 7827 / 57
p0 1807 ± 1.723
2600
2400
2200
2000
1800
1600
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

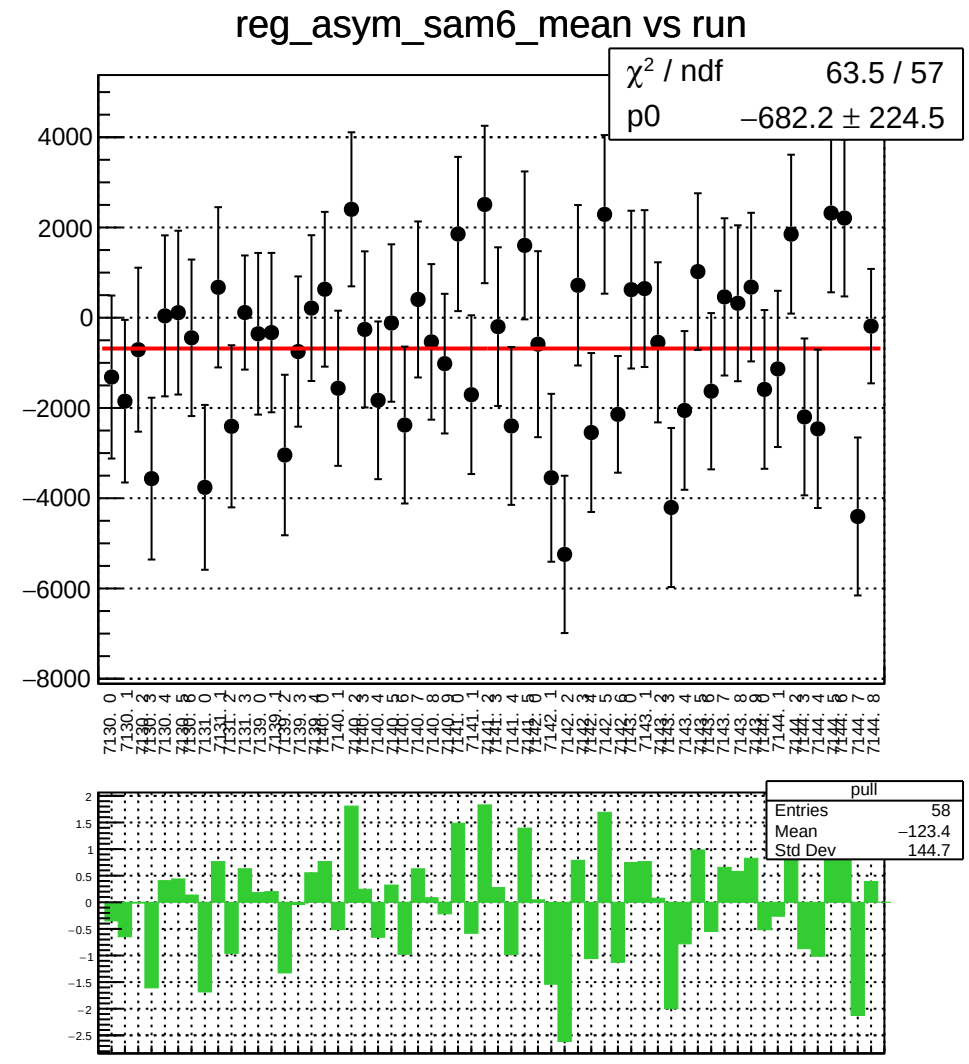

reg_asym_sam5_mean vs run
χ² / ndf 64.92 / 57
p0 −410.1± 226.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 58
Mean 107.3
Std Dev 58.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

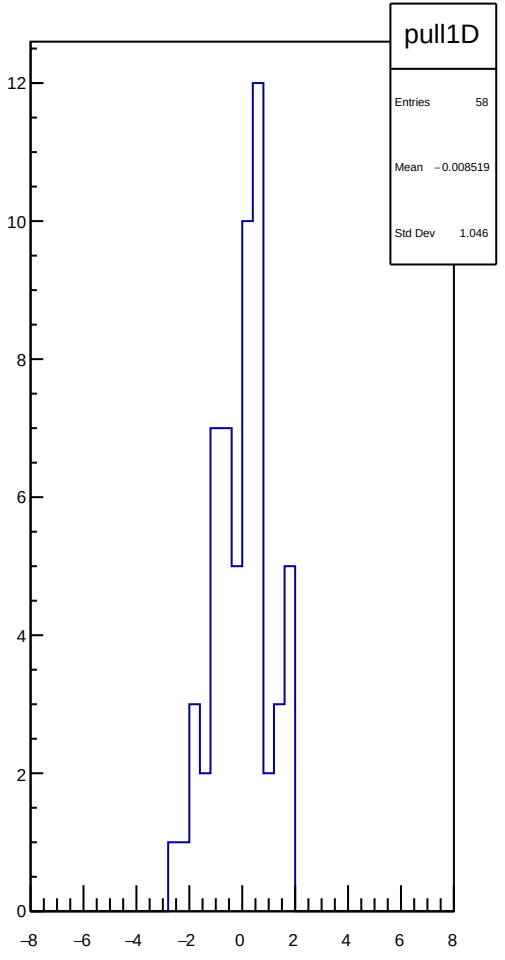

pull1D
Entries 58
Mean −0.01108
Std Dev 1.058
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

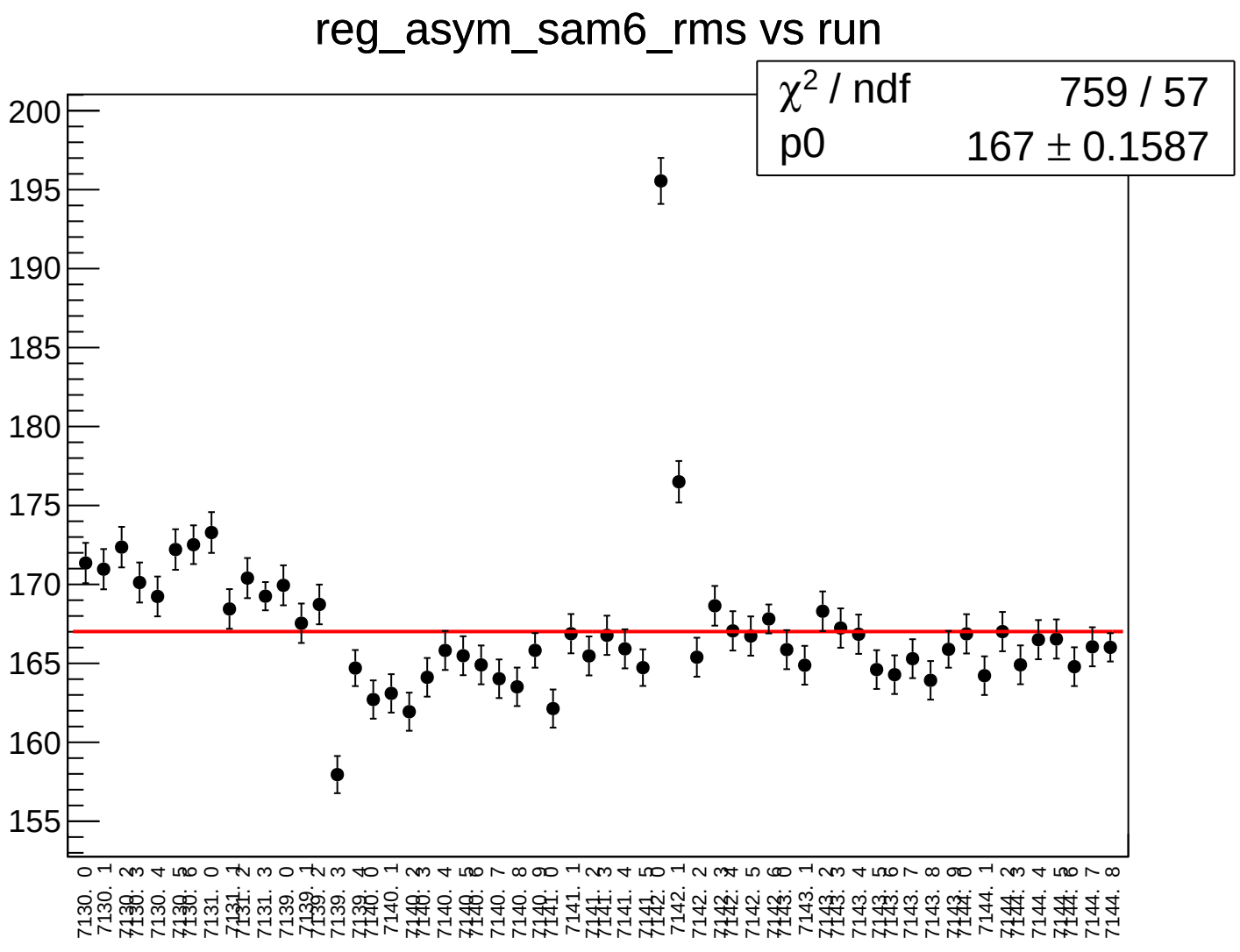

reg_asym_sam5_rms vs run
χ² / ndf 2981 / 57
p0 168.5 ± 0.1603
200
190
180
170
160
150

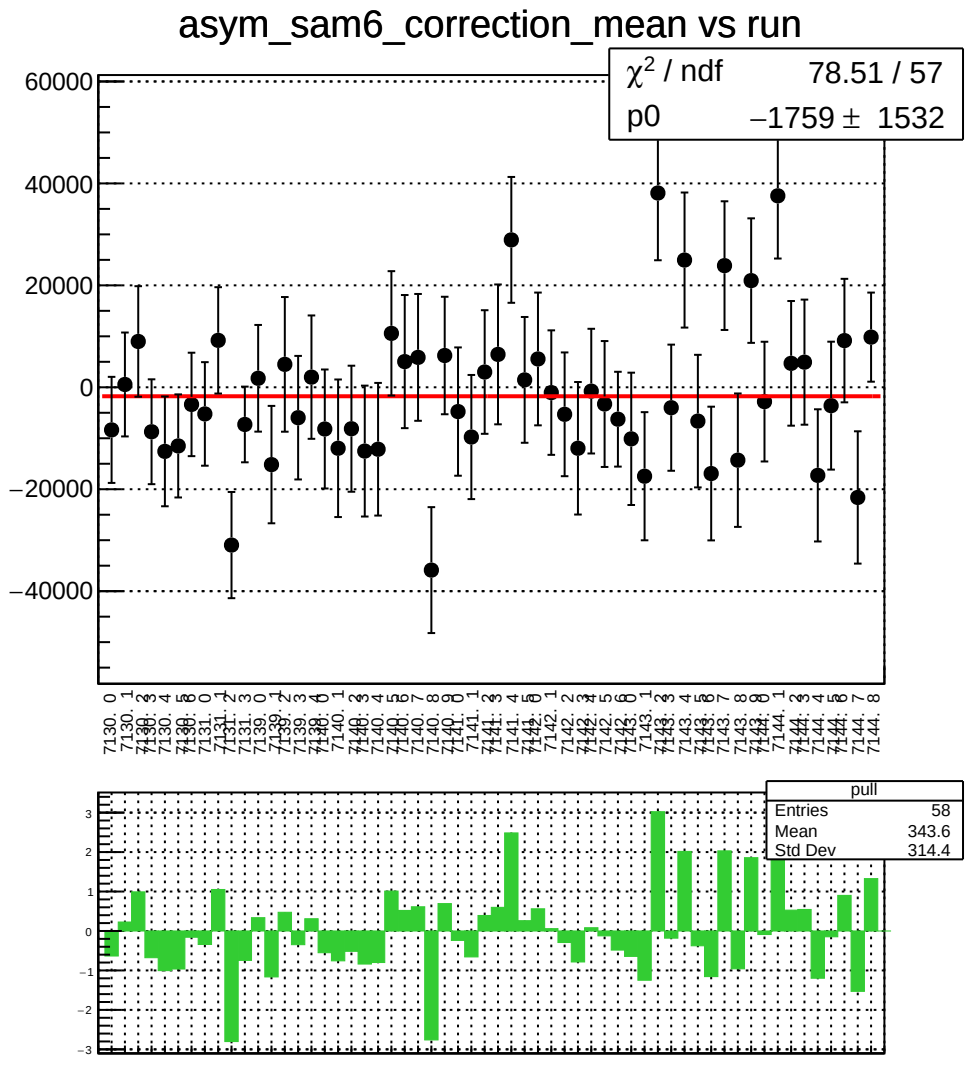

asym_sam5_correction_mean vs run
χ² / ndf 85.56 / 57
p0 583.1 ± 1334
pull
Entries 58
Mean −102.1
Std Dev 127.6
pull1D
Entries 58
Mean −0.0138
Std Dev 1.215

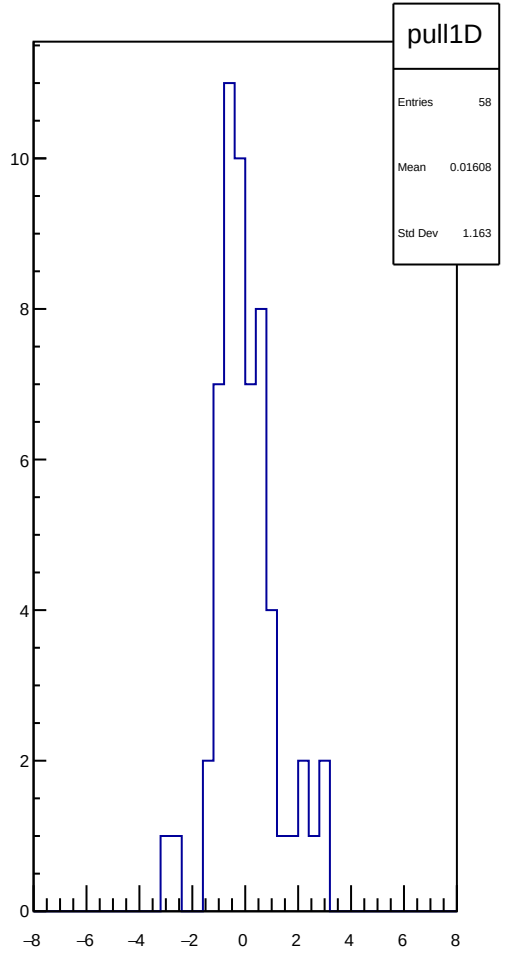

asym_sam5_correction_rms vs run
χ² / ndf 3263 / 57
p0 991.2 ± 0.9431
1200
1150
1100
1050
1000
950
900
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7141. 6
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

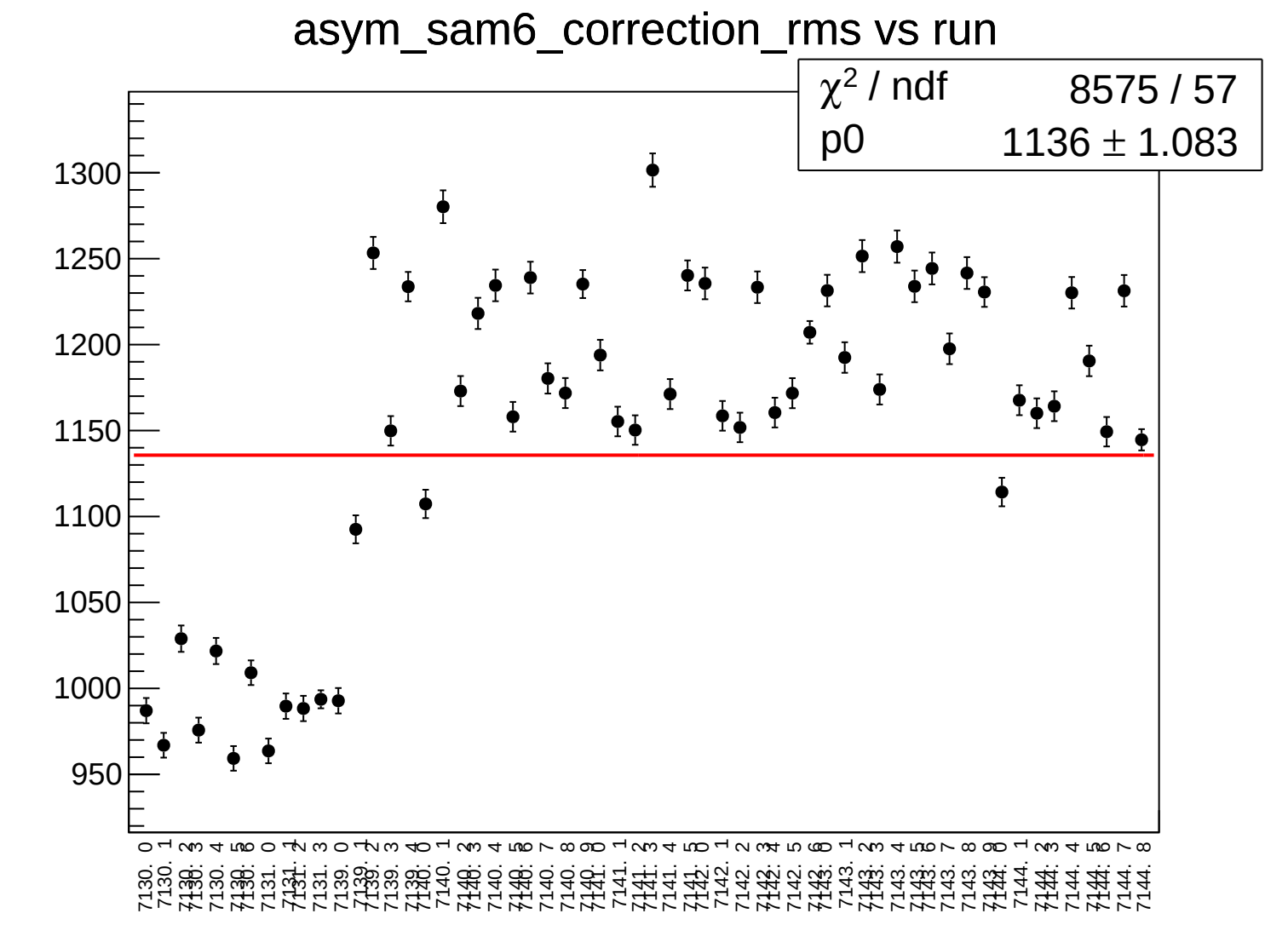

reg_asym_sam6_mean vs run
χ² / ndf 63.5 / 57
p0 −682.2 ± 224.5
pull
Entries 58
Mean −123.4
Std Dev 144.7

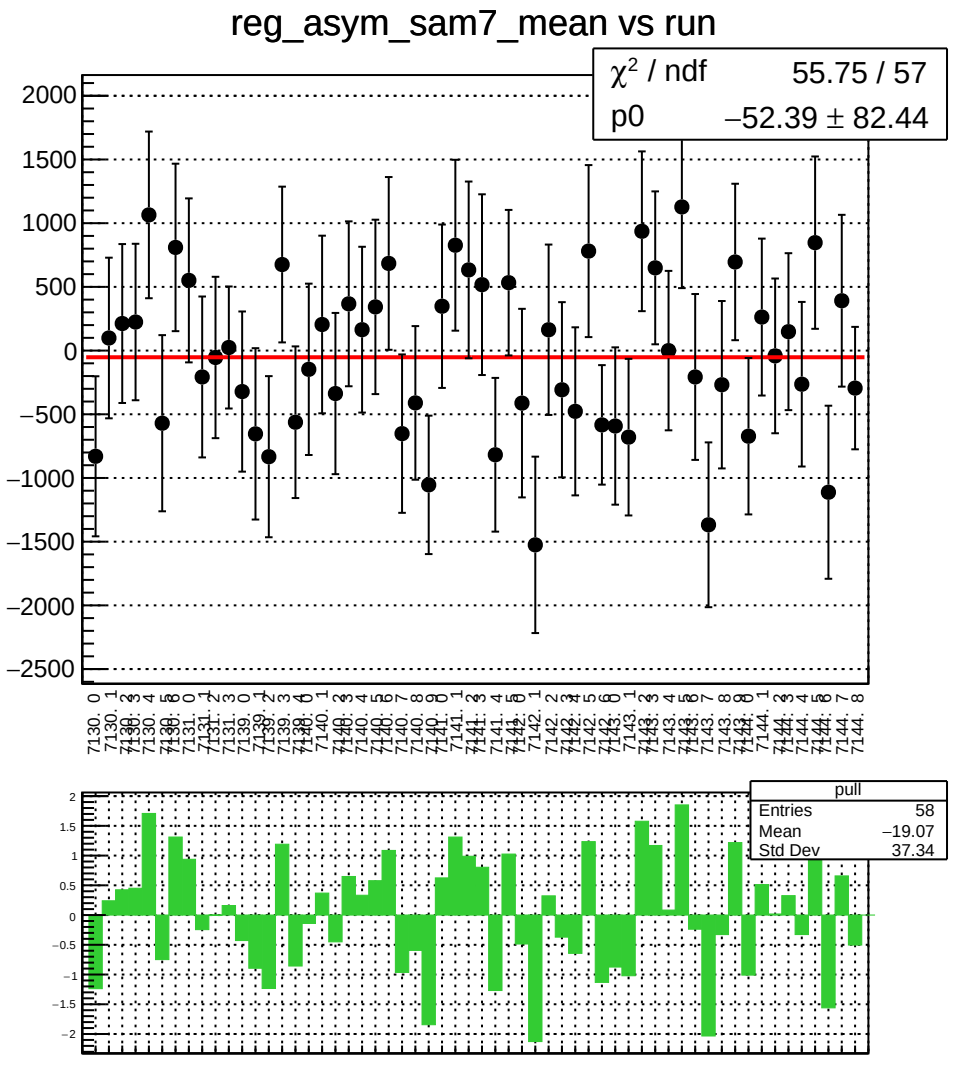

pull1D
Entries 58
Mean −0.008519
Std Dev 1.046

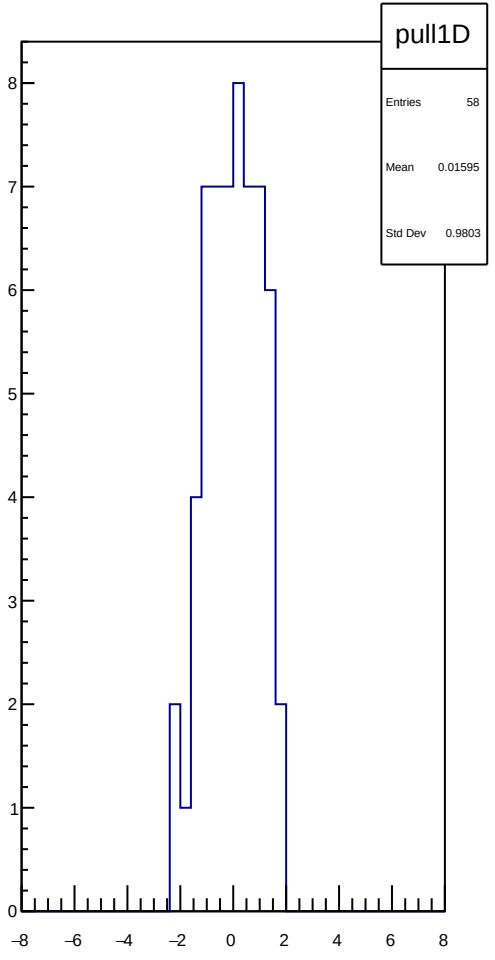

reg_asym_sam6_rms vs run
χ² / ndf 759 / 57
p0 167 ± 0.1587
200
195
190
185
180
175
170
165
160
155

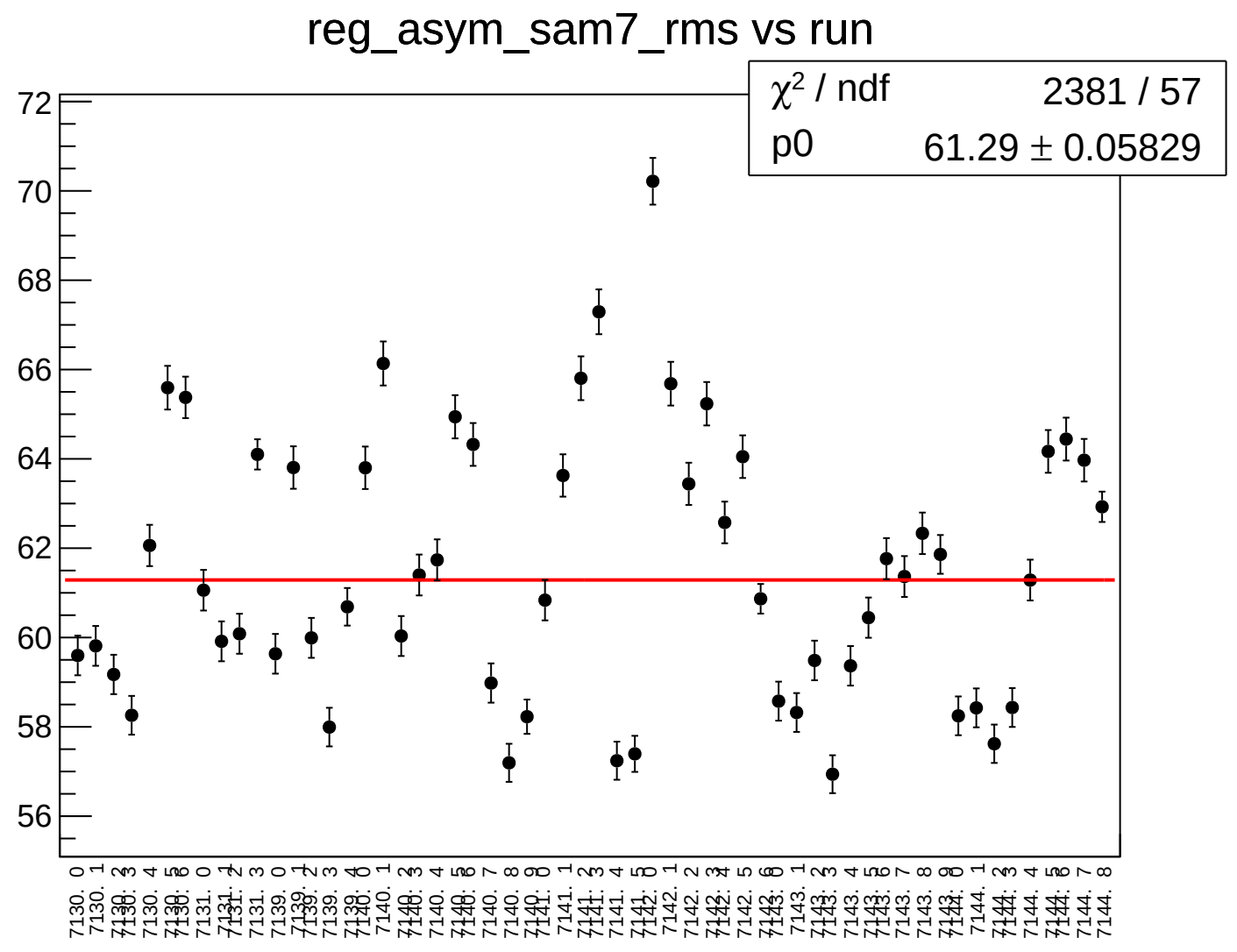

asym_sam6_correction_mean vs run
χ² / ndf 78.51 / 57
p0 −1759 ± 1532
60000
40000
20000
0
−20000
−40000
pull
Entries 58
Mean 343.6
Std Dev 314.4
3
2
1
0
−1
−2
−3

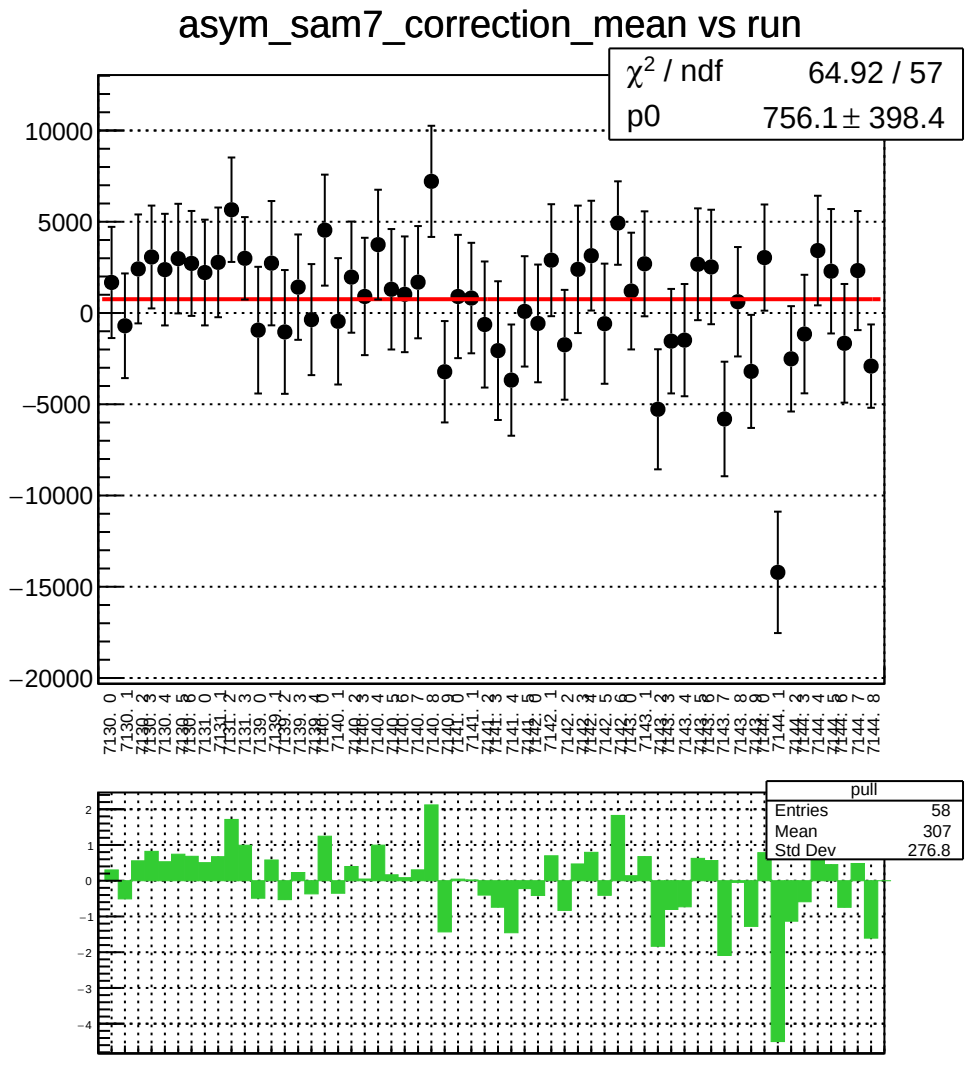

pull1D
Entries 58
Mean 0.01608
Std Dev 1.163
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

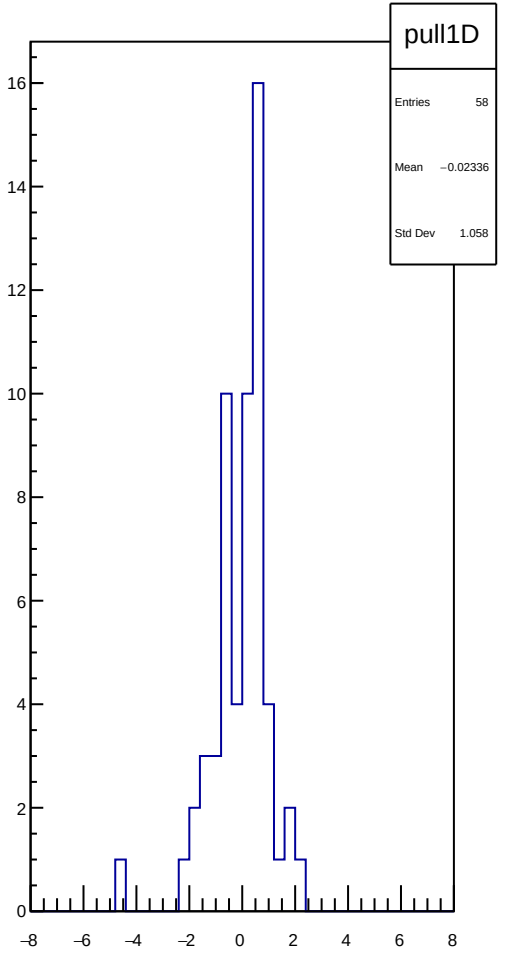

asym_sam6_correction_rms vs run
χ² / ndf 8575 / 57
p0 1136 ± 1.083
1300
1250
1200
1150
1100
1050
1000
950

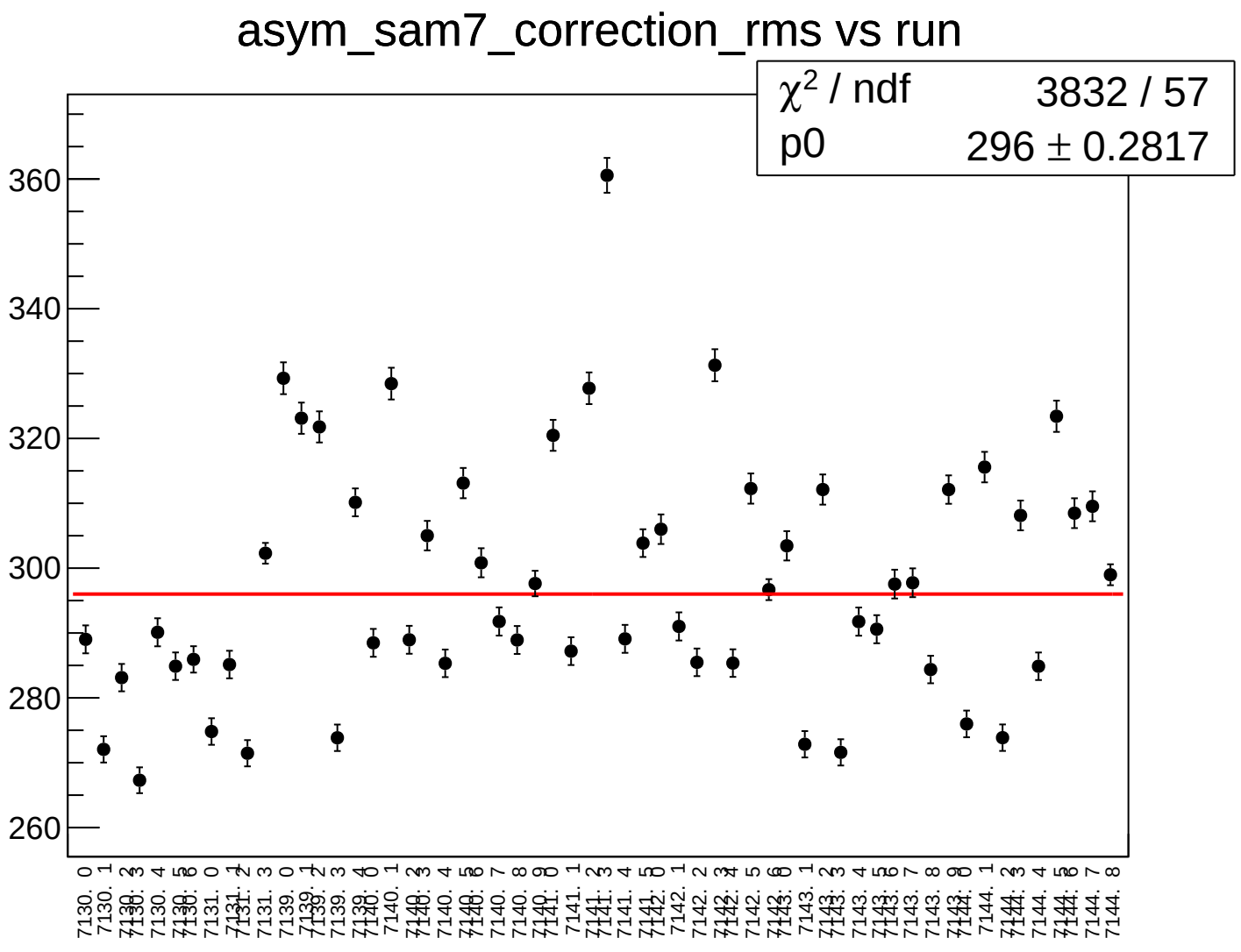

reg_asym_sam7_mean vs run
χ² / ndf 55.75 / 57
p0 −52.39 ± 82.44
pull
Entries 58
Mean −19.07
Std Dev 37.34

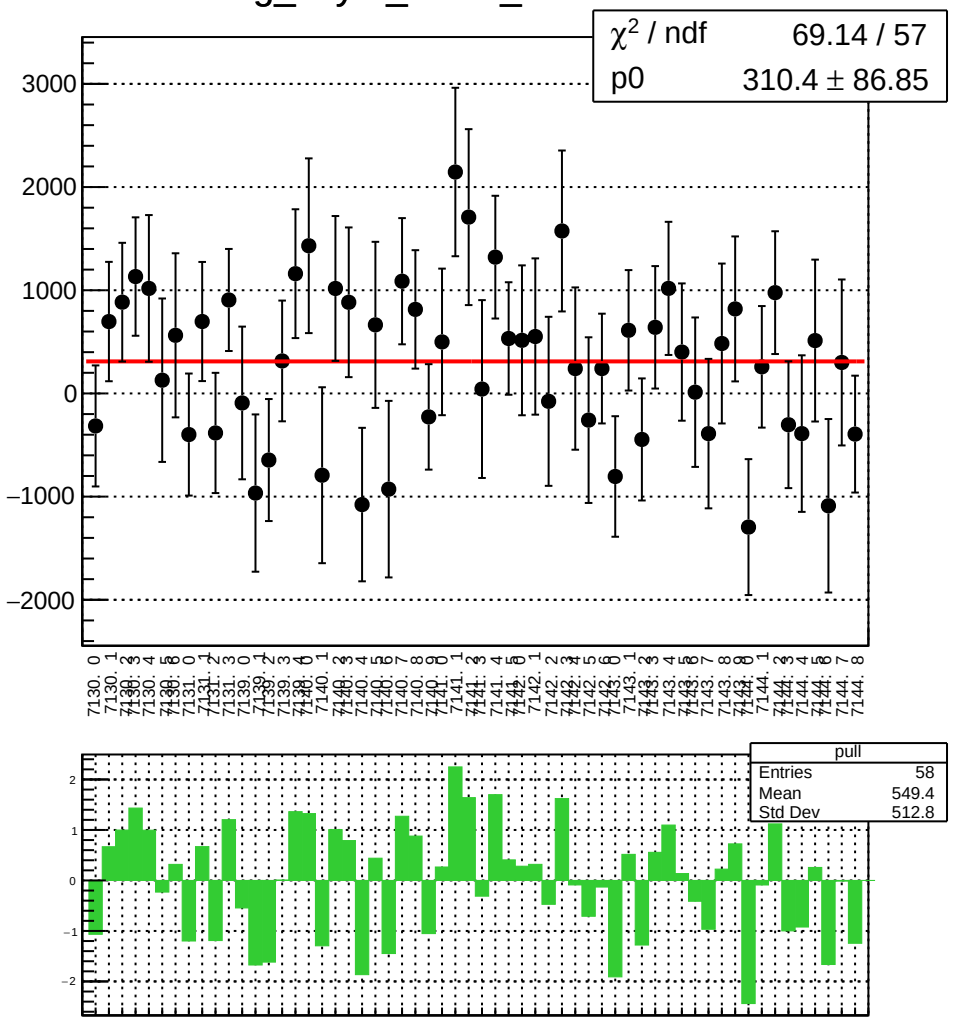

pull1D
Entries 58
Mean 0.01595
Std Dev 0.9803

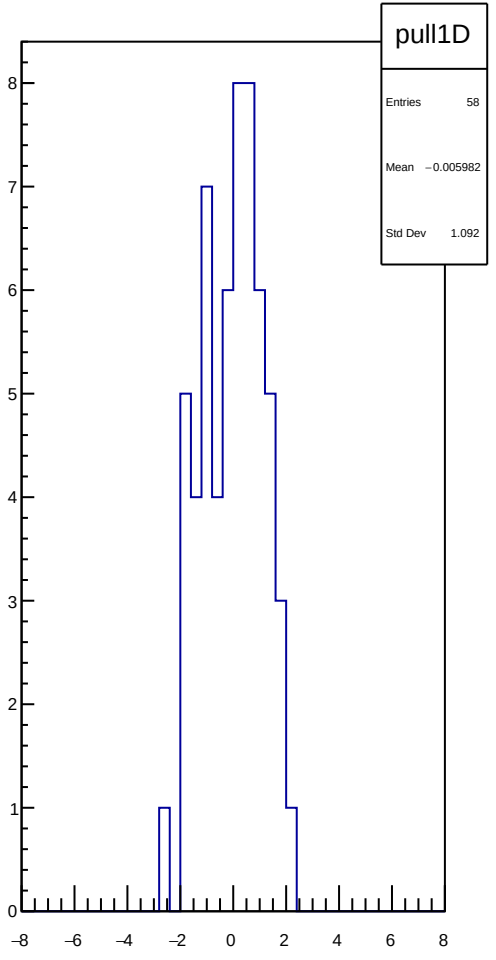

reg_asym_sam7_rms vs run
χ² / ndf 2381 / 57
p0 61.29 ± 0.05829
72
70
68
66
64
62
60
58
56

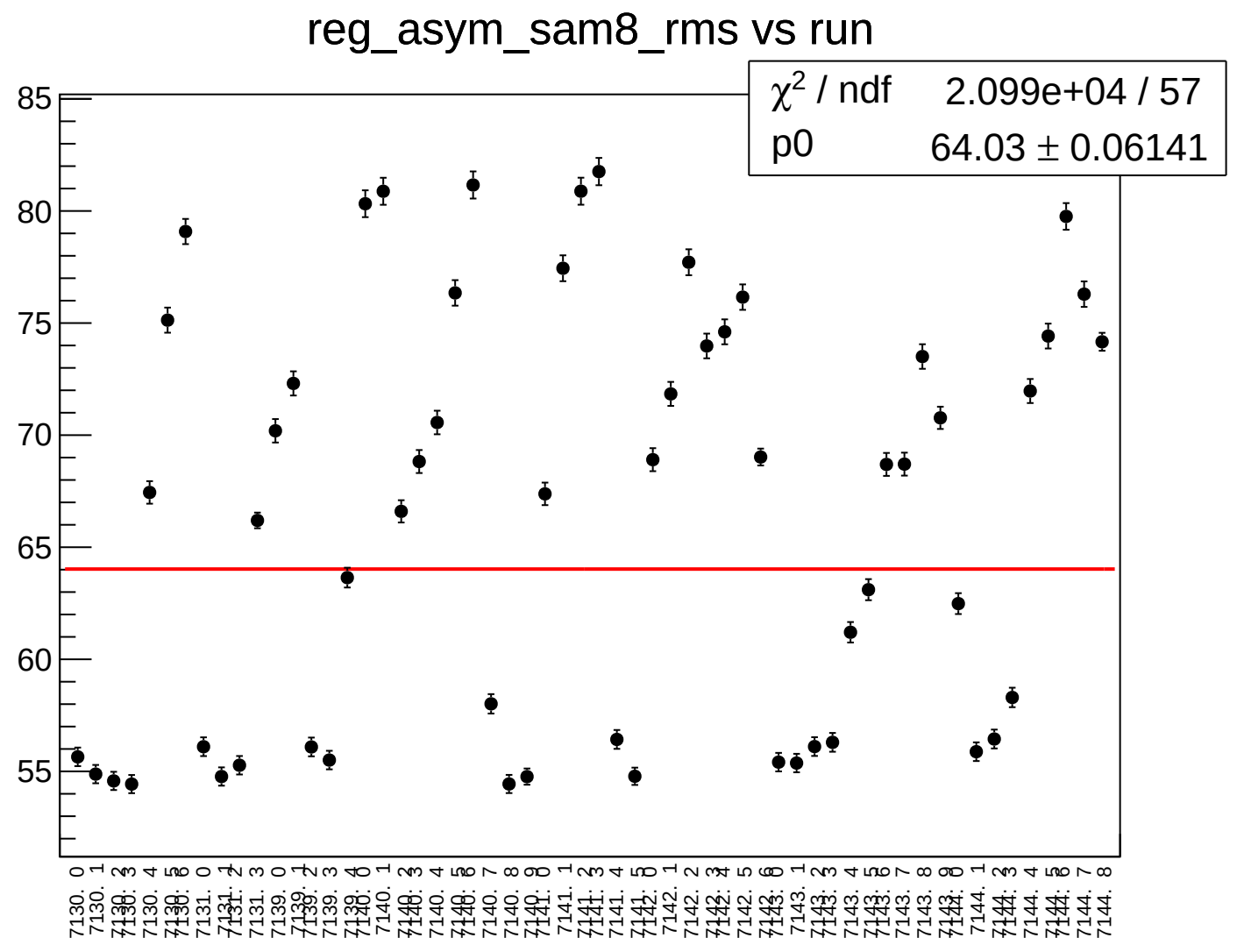

asym_sam7_correction_mean vs run
χ² / ndf 64.92 / 57
p0 756.1 ± 398.4
pull
Entries 58
Mean 307
Std Dev 276.8

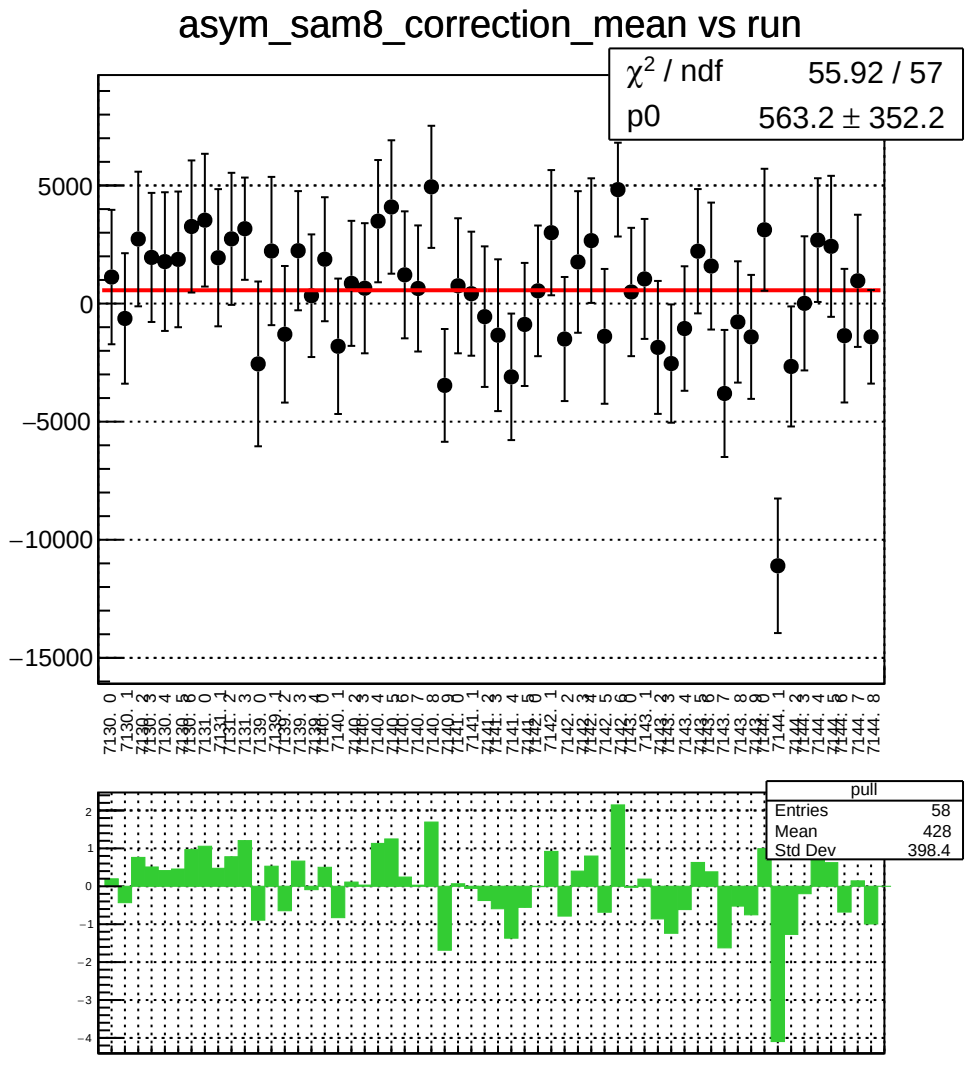

pull1D
Entries 58
Mean −0.02336
Std Dev 1.058

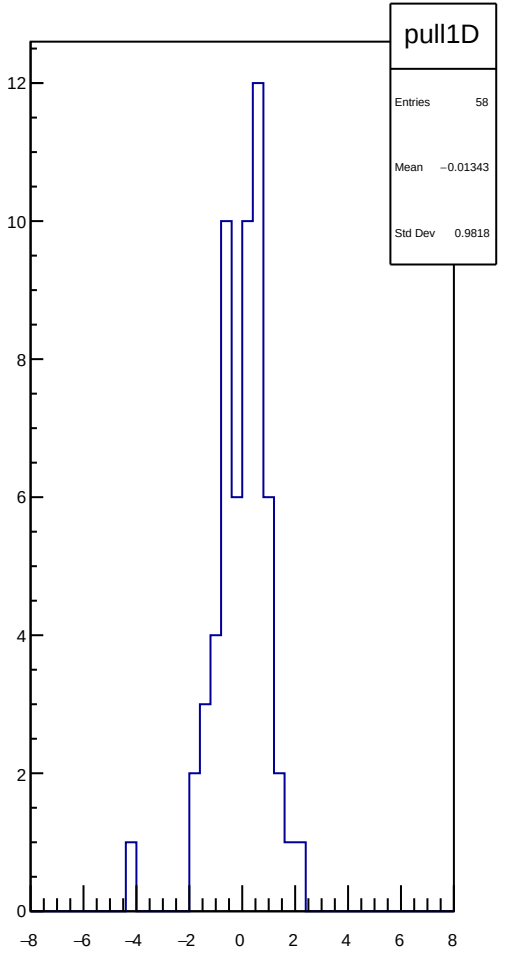

asym_sam7_correction_rms vs run
χ² / ndf 3832 / 57
p0 296 ± 0.2817
360
340
320
300
280
260
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

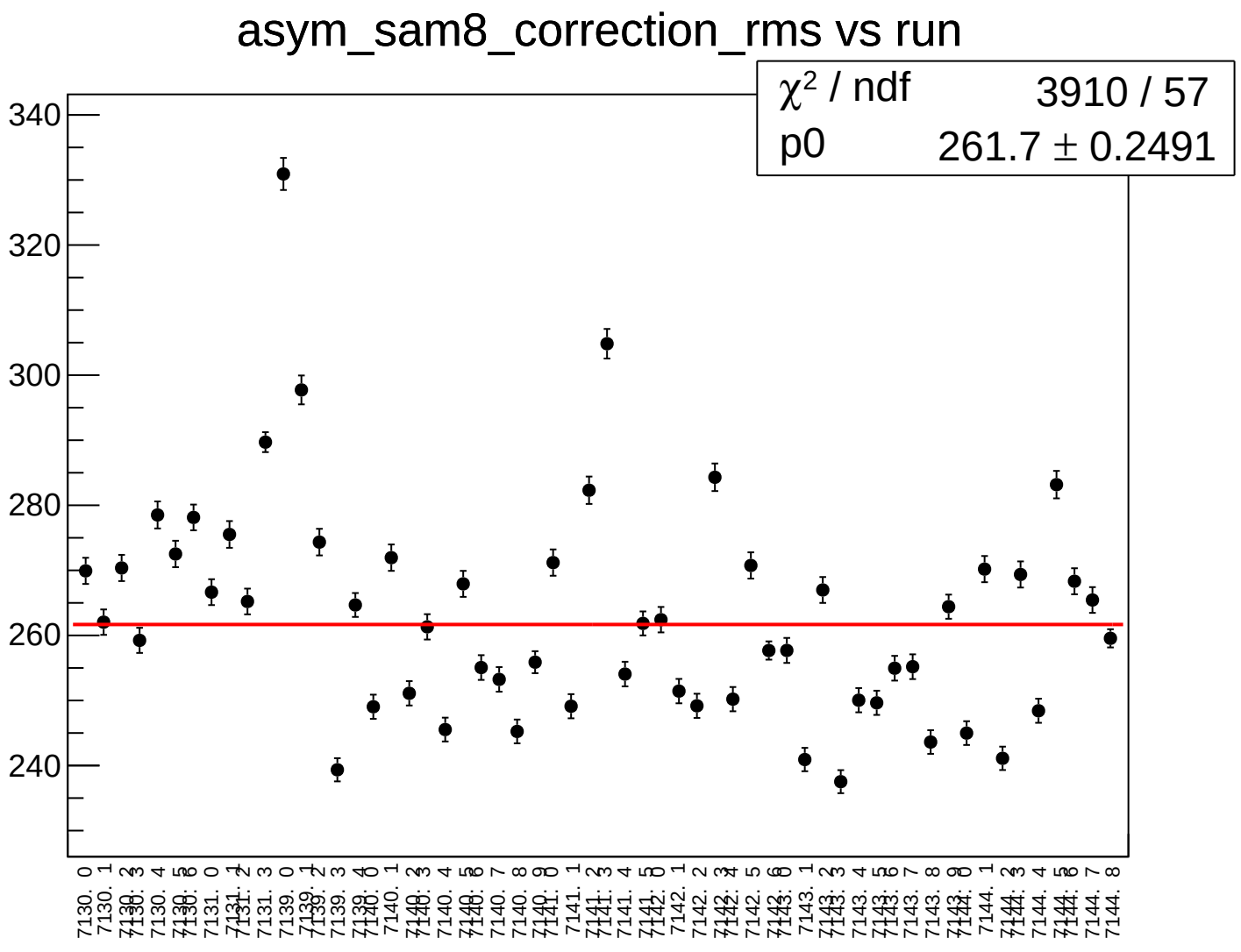

reg_asym_sam8_mean vs run
χ² / ndf 69.14 / 57
p0 310.4 ± 86.85
3000
2000
1000
0
−1000
−2000
pull
Entries 58
Mean 549.4
Std Dev 512.8
2
1
0
−1
−2

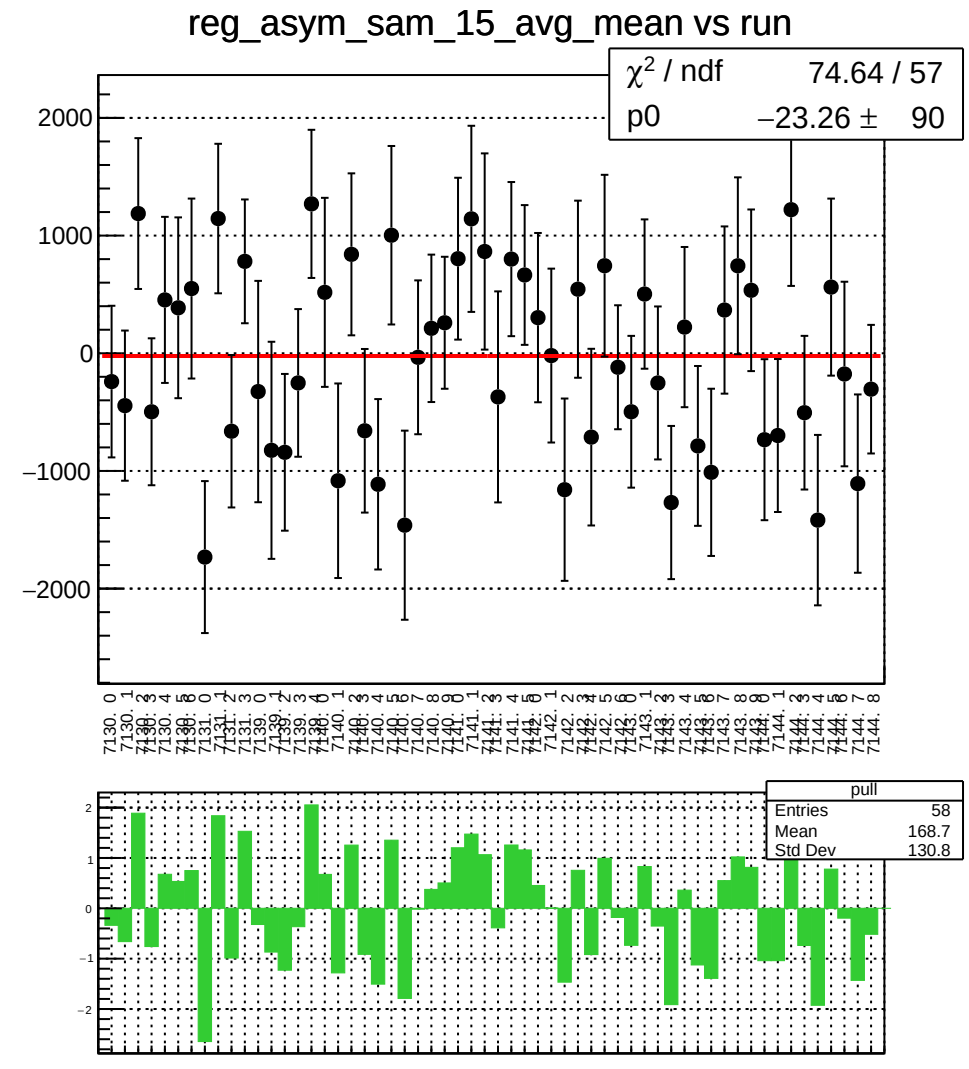

pull1D
Entries 58
Mean −0.005982
Std Dev 1.092
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

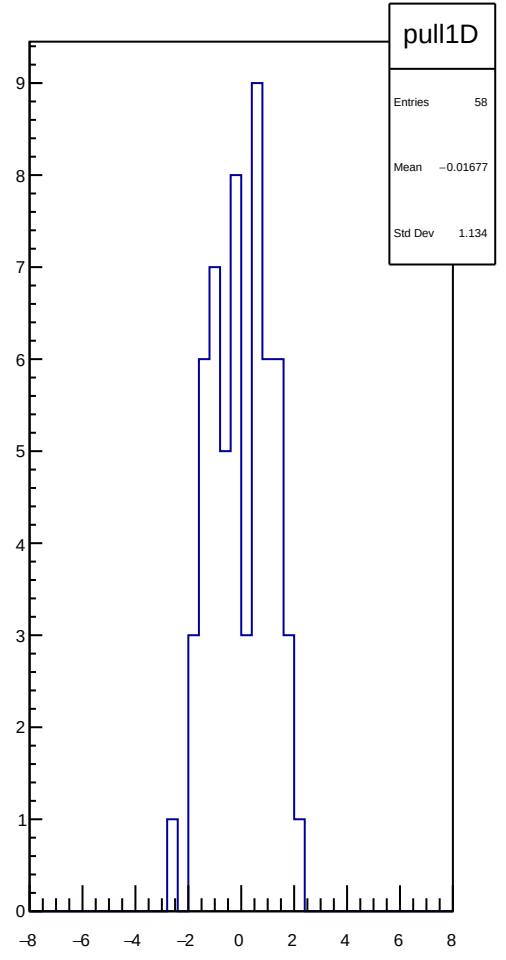

reg_asym_sam8_rms vs run
χ^2 / ndf 2.099e+04 / 57
p0 64.03 ± 0.06141
85
80
75
70
65
60
55

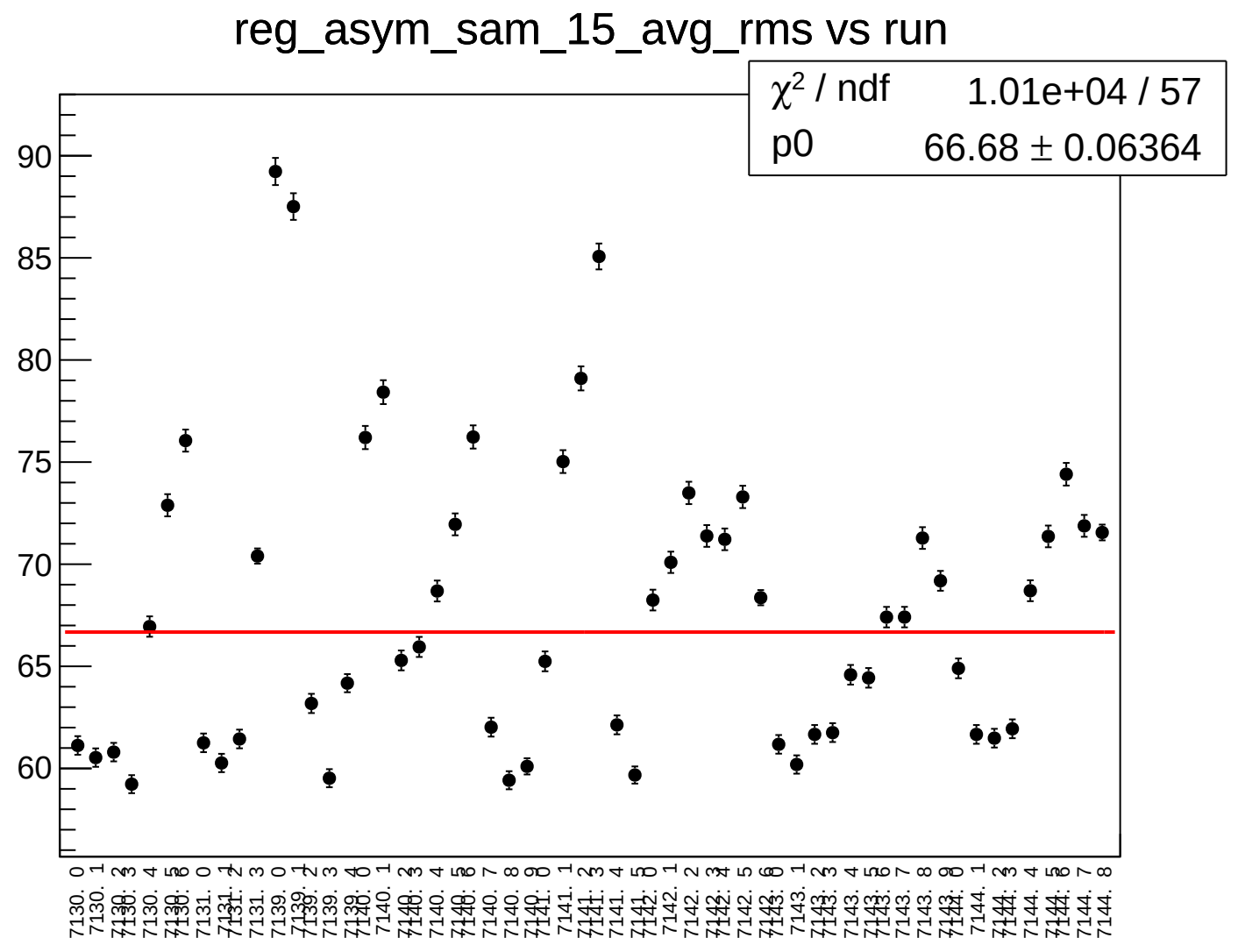

asym_sam8_correction_mean vs run
χ² / ndf 55.92 / 57
p0 563.2 ± 352.2
5000
0
−5000
−10000
−15000
pull
Entries 58
Mean 428
Std Dev 398.4
2
1
0
−1
−2
−3
−4

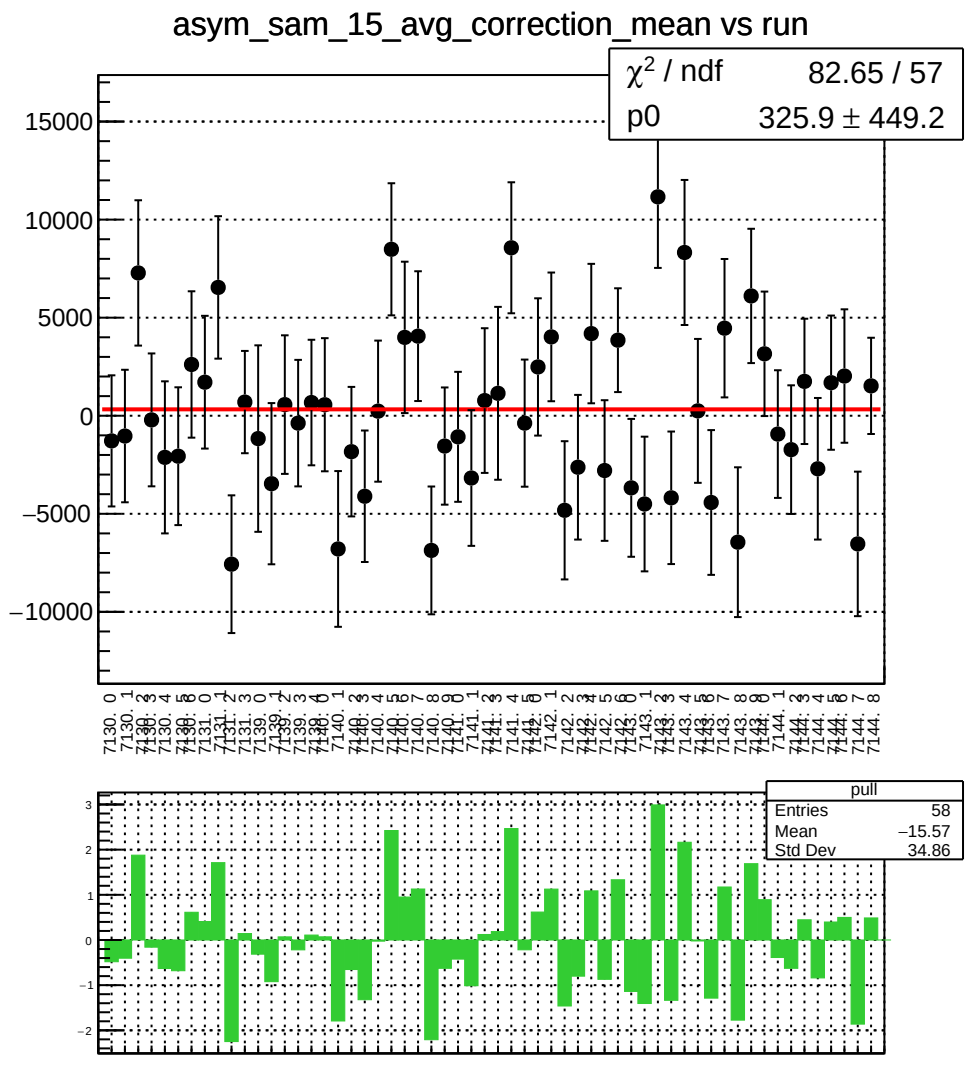

pull1D
Entries 58
Mean −0.01343
Std Dev 0.9818
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

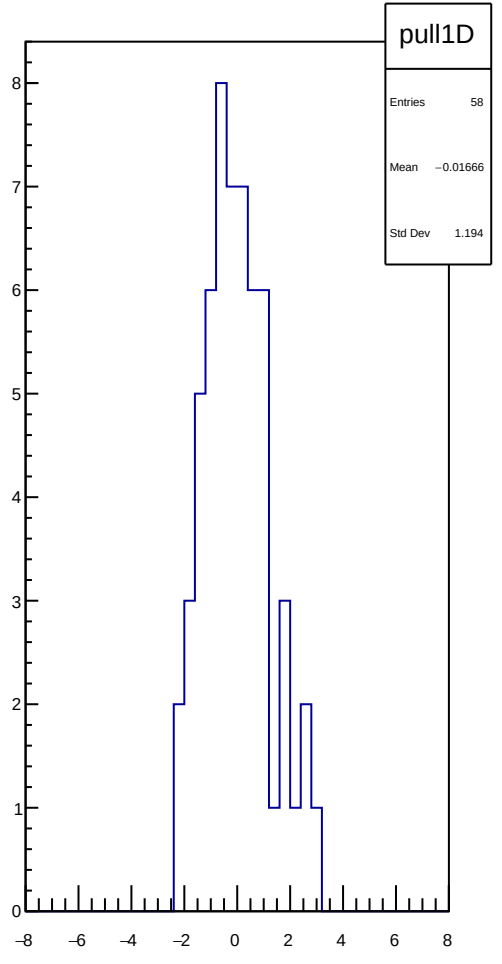

asym_sam8_correction_rms vs run
χ² / ndf 3910 / 57
p0 261.7 ± 0.2491
340
320
300
280
260
240

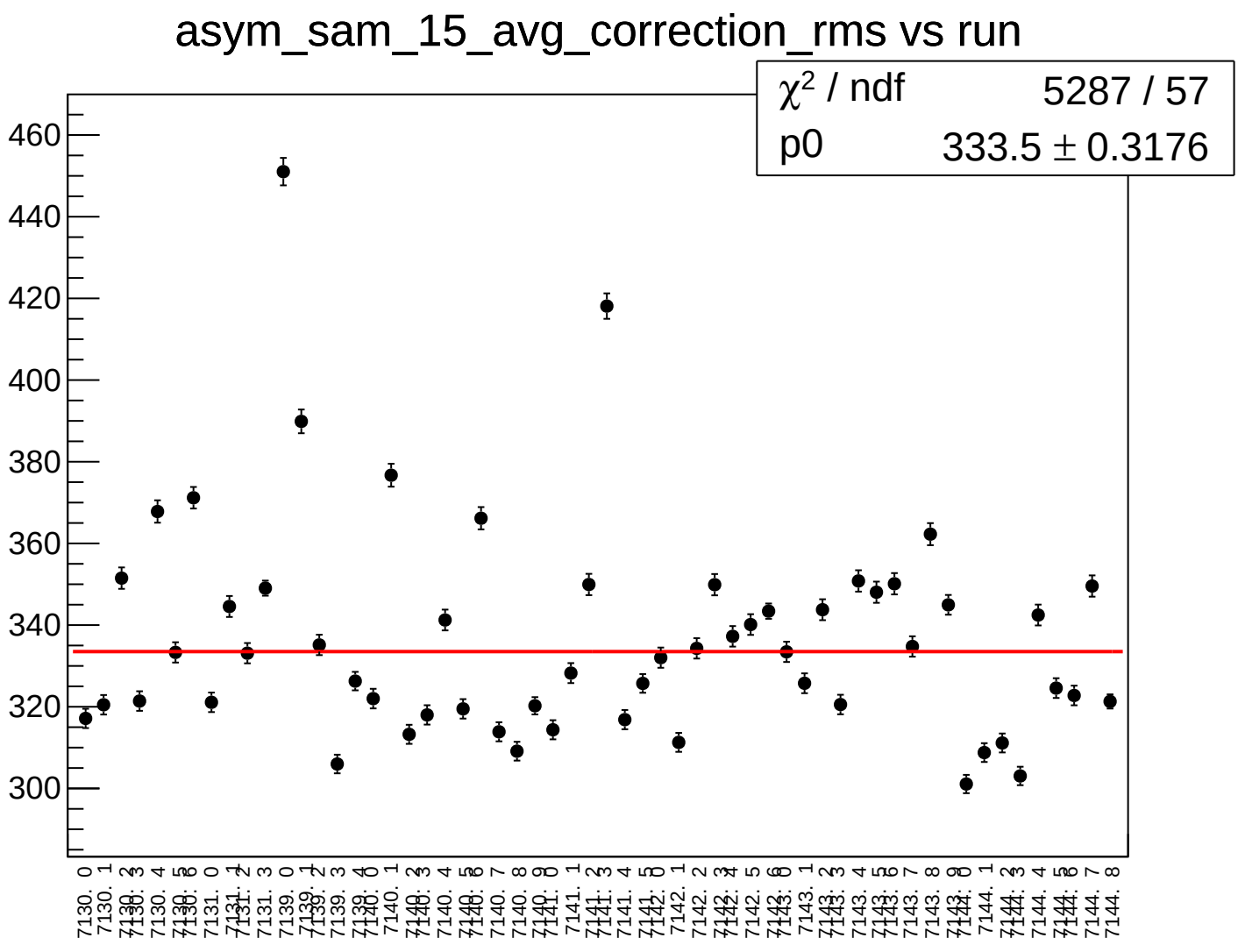

reg_asym_sam_15_avg_mean vs run
χ² / ndf 74.64 / 57
p0 −23.26 ± 90
2000
1000
0
−1000
−2000
pull
Entries 58
Mean 168.7
Std Dev 130.8
2
1
0
−1
−2

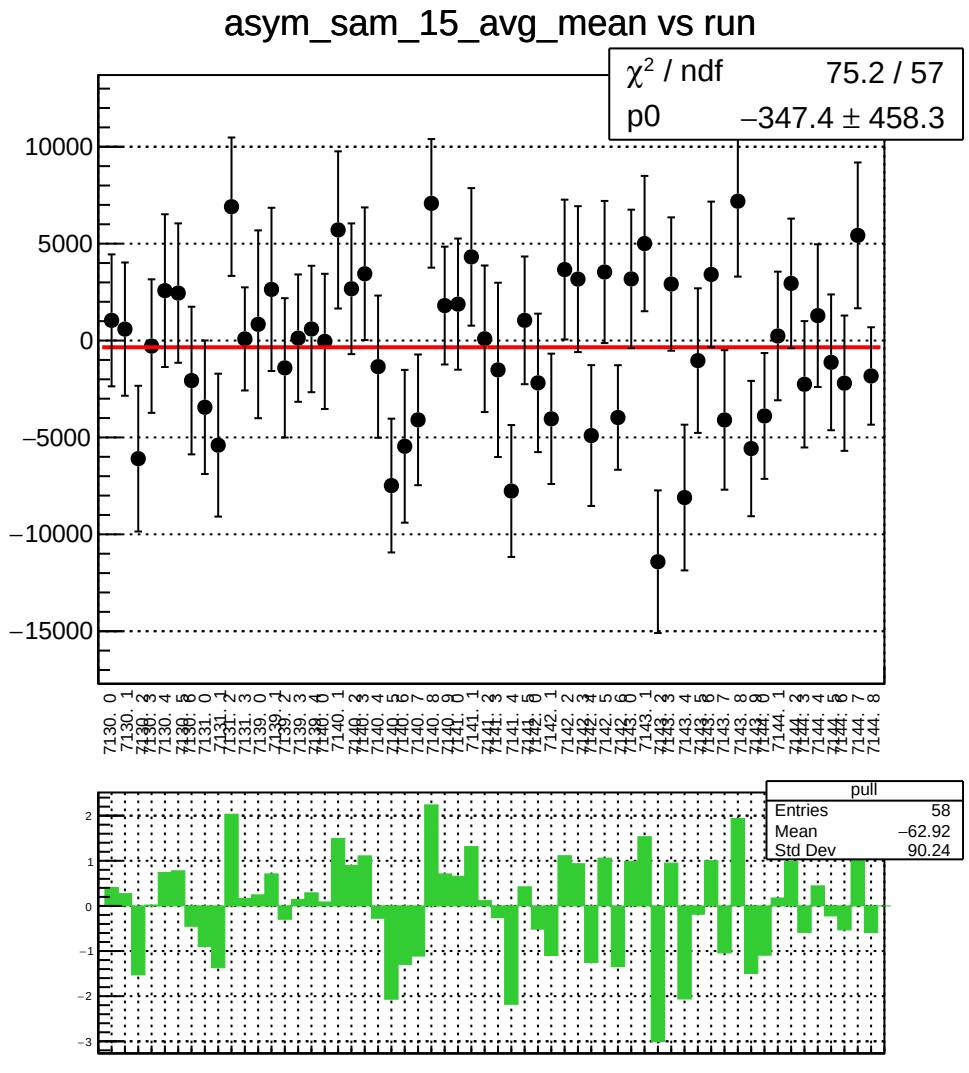

pull1D
Entries 58
Mean −0.01677
Std Dev 1.134
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

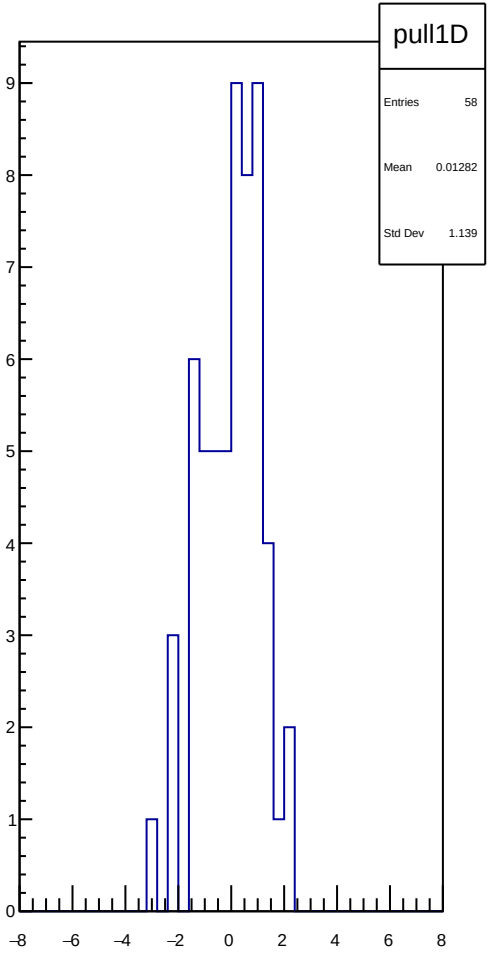

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.01e+04 / 57
p0 66.68 ± 0.06364
90
85
80
75
70
65
60

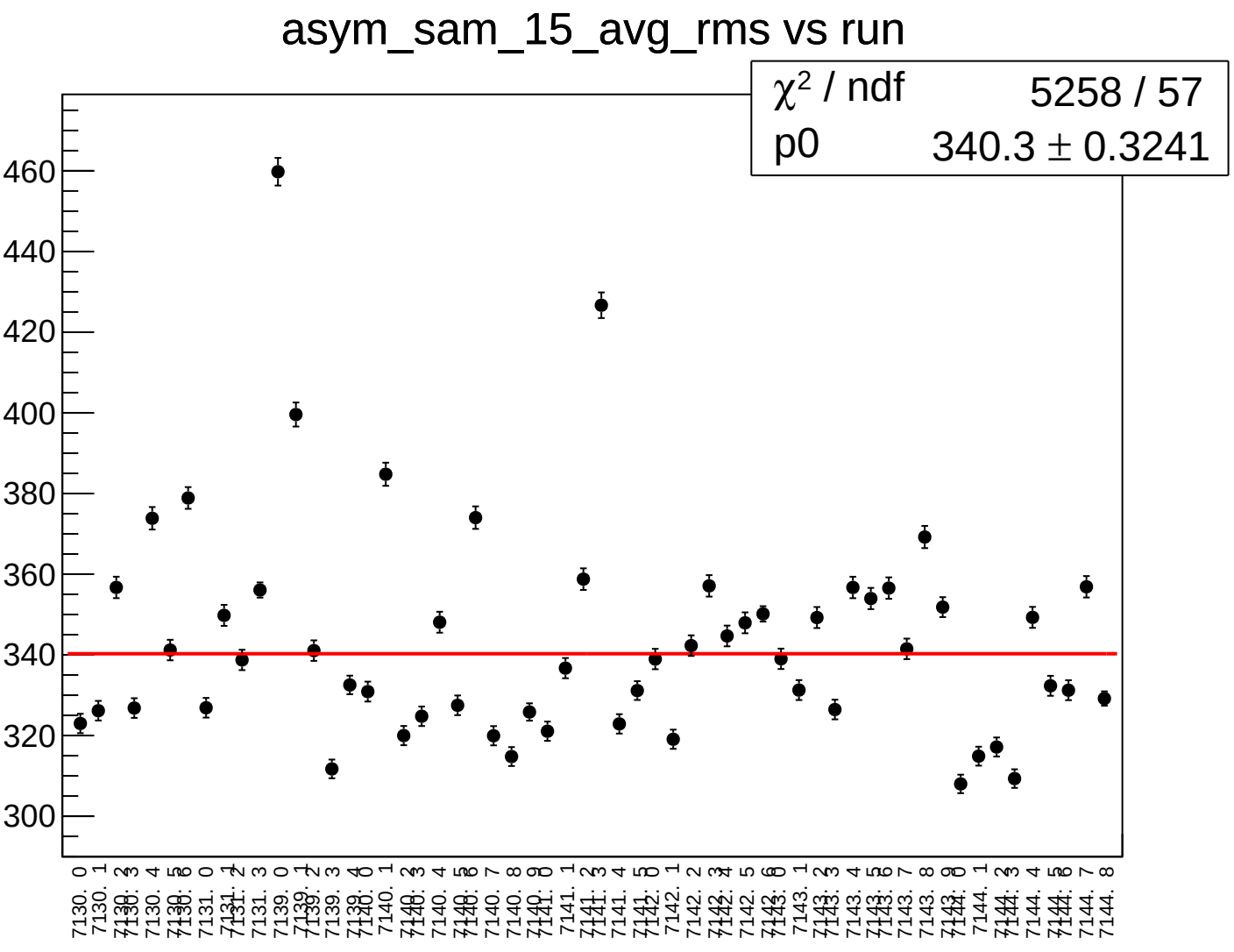

asym_sam_15_avg_correction_mean vs run
χ² / ndf 82.65 / 57
p0 325.9 ± 449.2
15000
10000
5000
0
−5000
−10000
pull
Entries 58
Mean −15.57
Std Dev 34.86
3
2
1
0
−1
−2

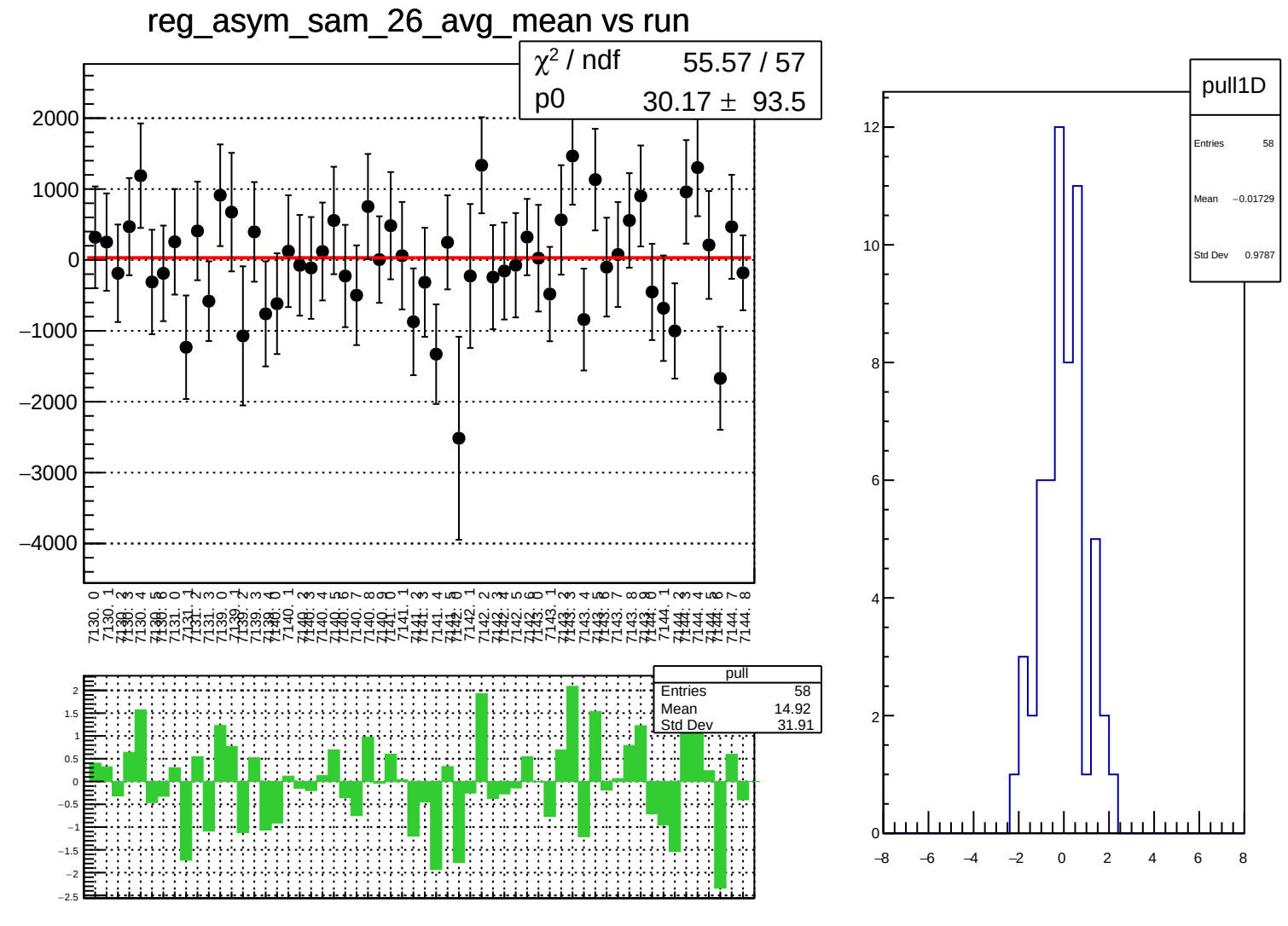

pull1D
Entries 58
Mean −0.01666
Std Dev 1.194
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

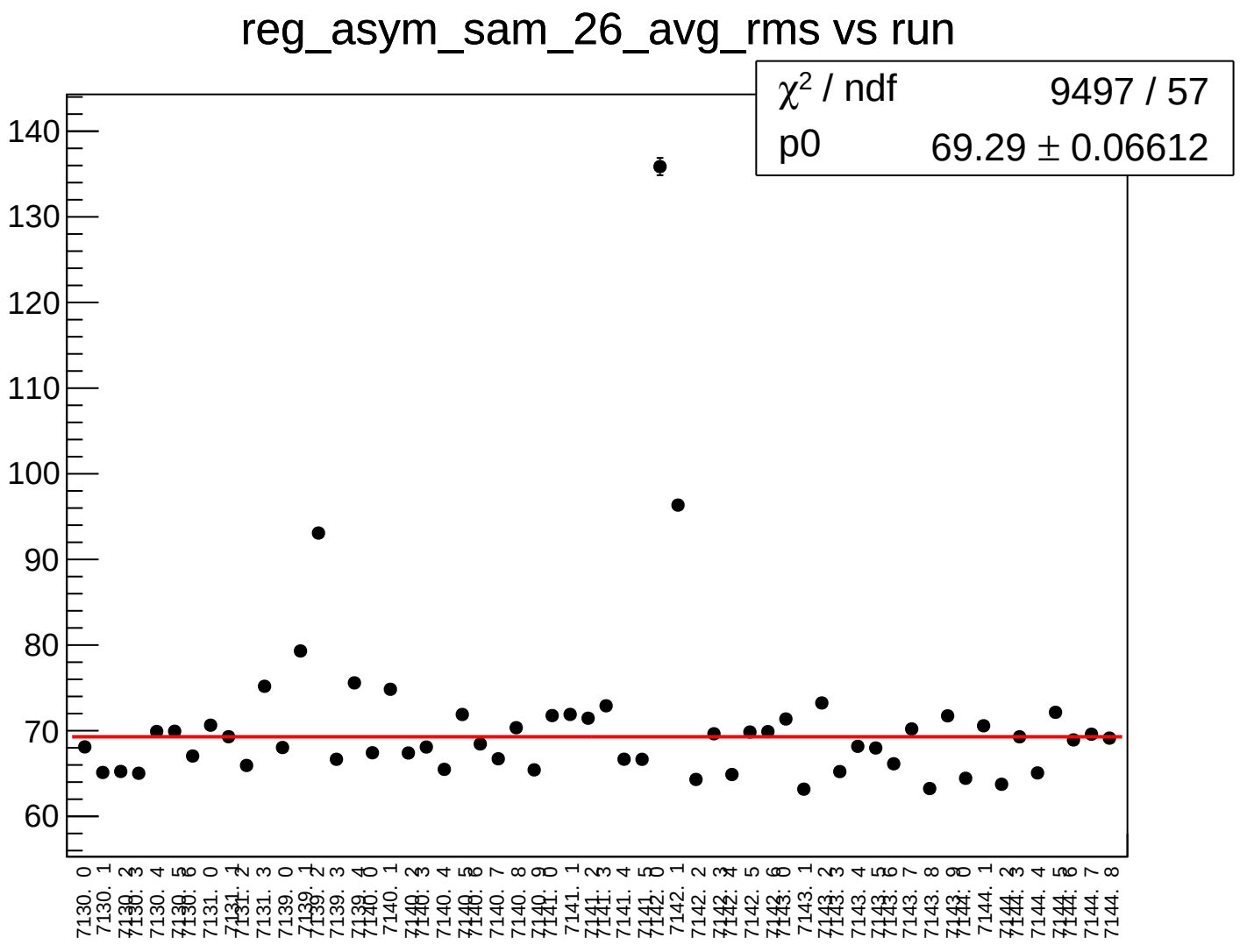

asym_sam_15_avg_correction_rms vs run
χ² / ndf 5287 / 57
p0 333.5 ± 0.3176
460
440
420
400
380
360
340
320
300

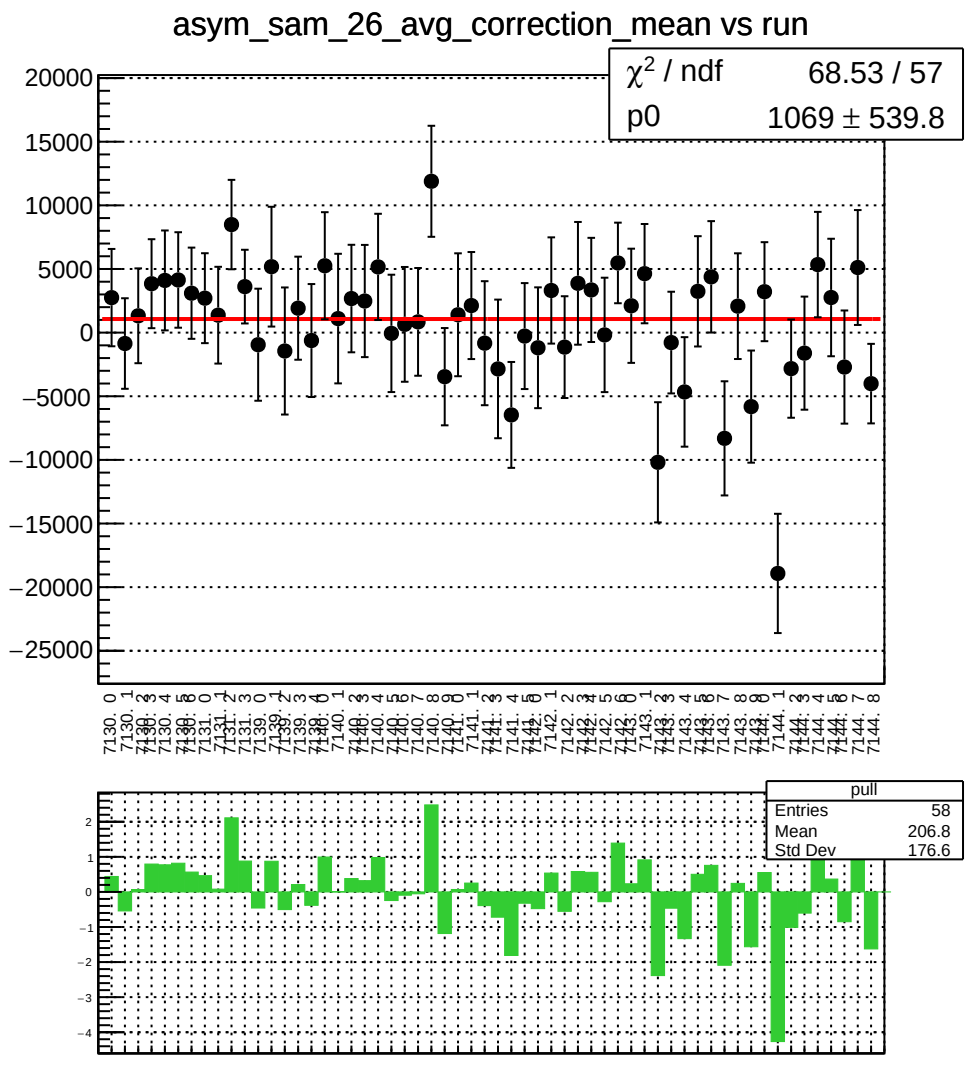

asym_sam_15_avg_mean vs run
χ² / ndf 75.2 / 57
p0 −347.4 ± 458.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 58
Mean −62.92
Std Dev 90.24
2
1
0
−1
−2
−3

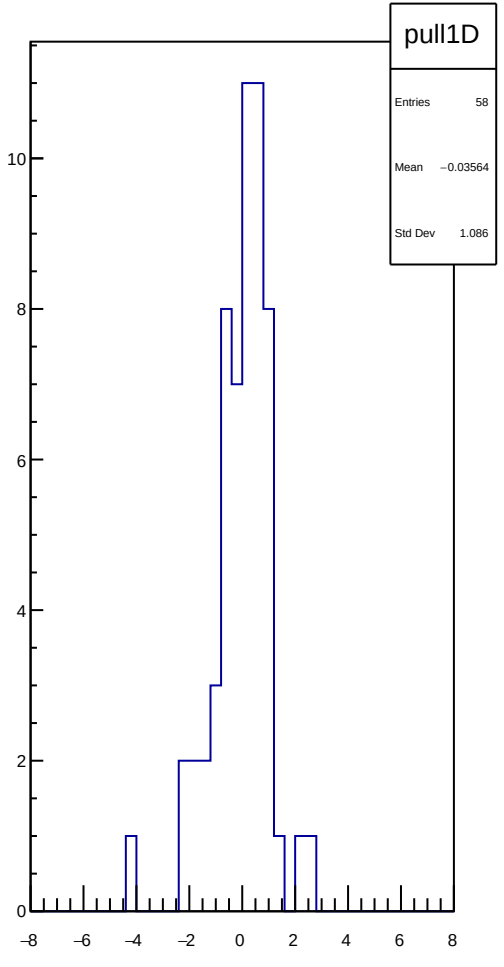

pull1D
Entries 58
Mean 0.01282
Std Dev 1.139
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

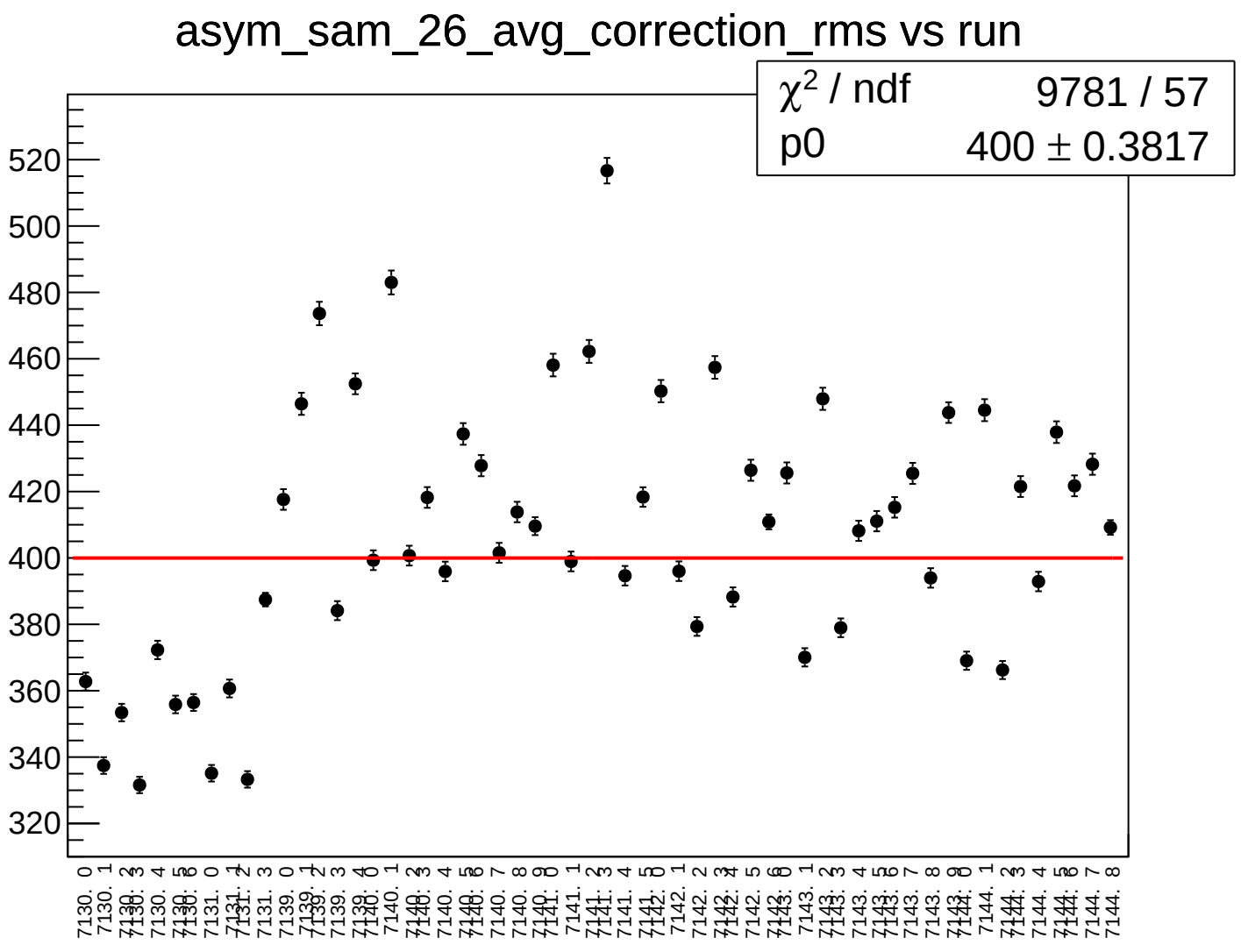

asym_sam_15_avg_rms vs run
χ² / ndf 5258 / 57
p0 340.3 ± 0.3241
460
440
420
400
380
360
340
320
300

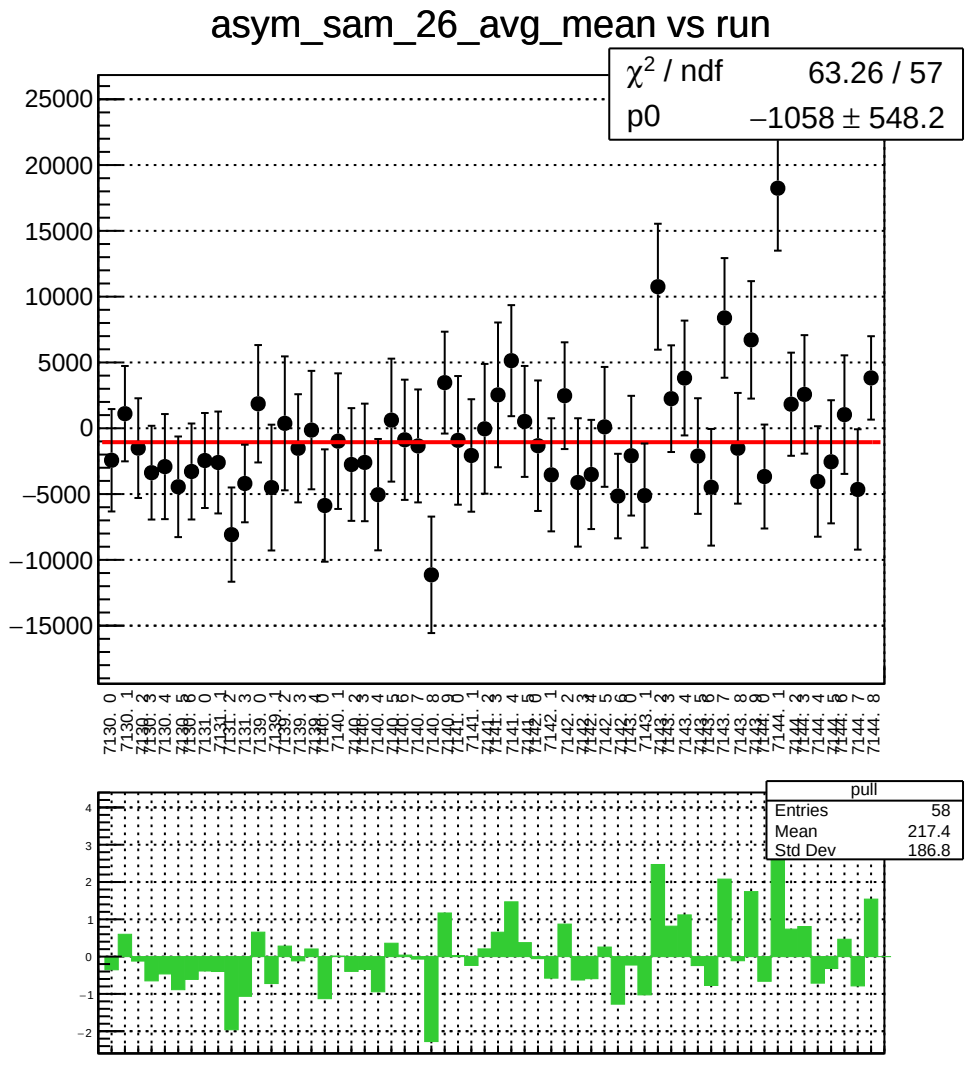

reg_asym_sam_26_avg_mean vs run
χ² / ndf 55.57 / 57
p0 30.17 ± 93.5
pull
Entries 58
Mean 14.92
Std Dev 31.91
pull1D
Entries 58
Mean −0.01729
Std Dev 0.9787

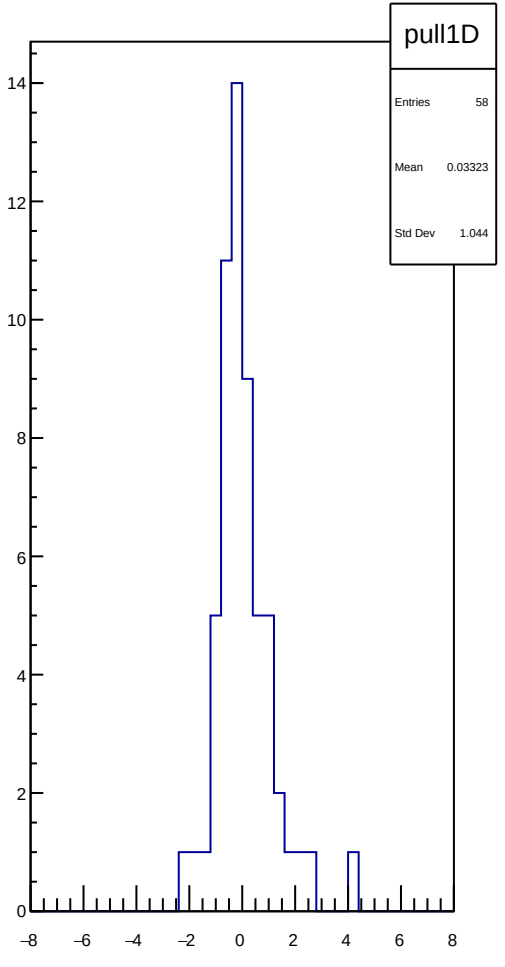

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 9497 / 57
p0 69.29 ± 0.06612
140
130
120
110
100
90
80
70
60

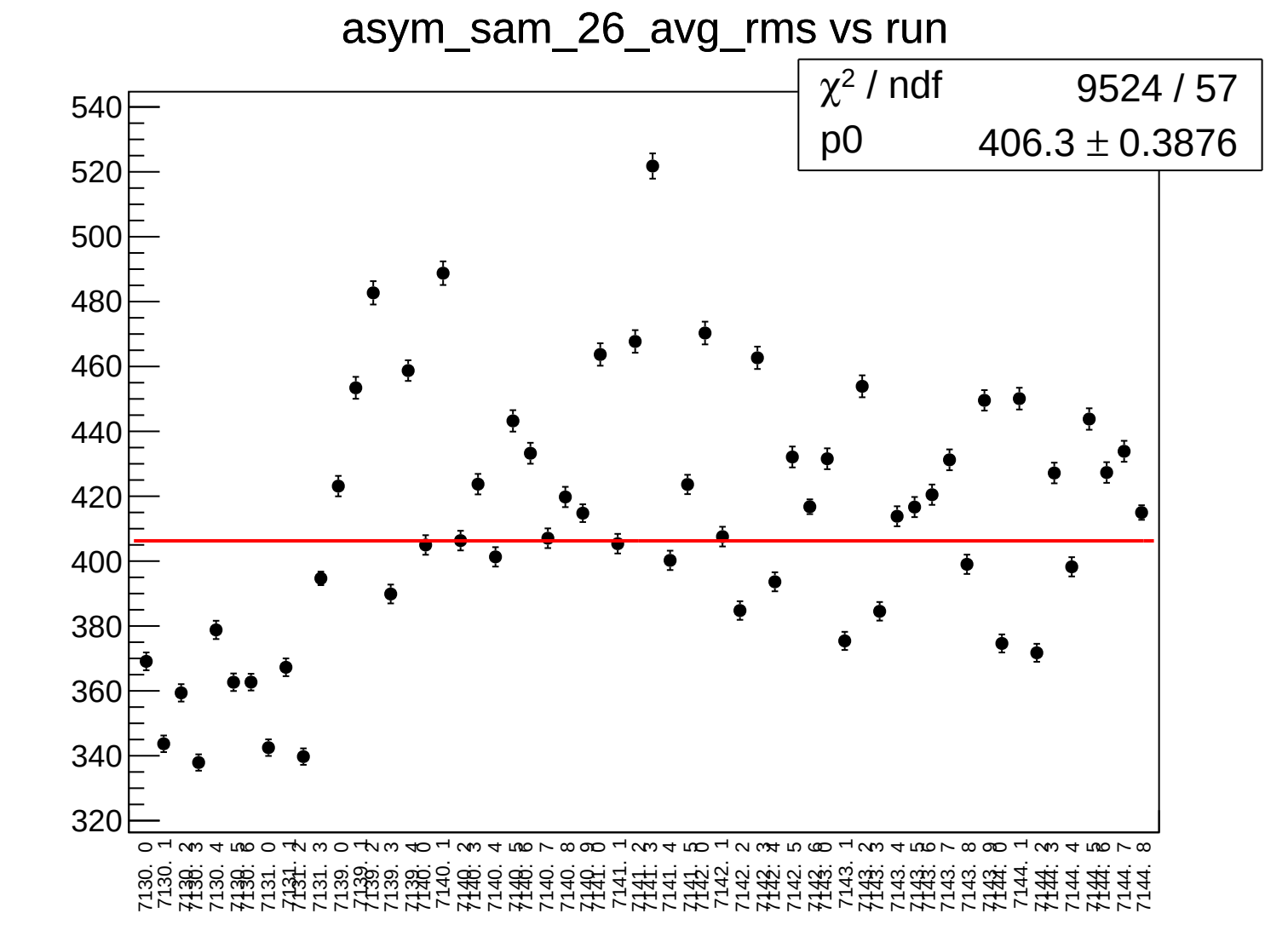

asym_sam_26_avg_correction_mean vs run
χ² / ndf 68.53 / 57
p0 1069 ± 539.8
pull
Entries 58
Mean 206.8
Std Dev 176.6

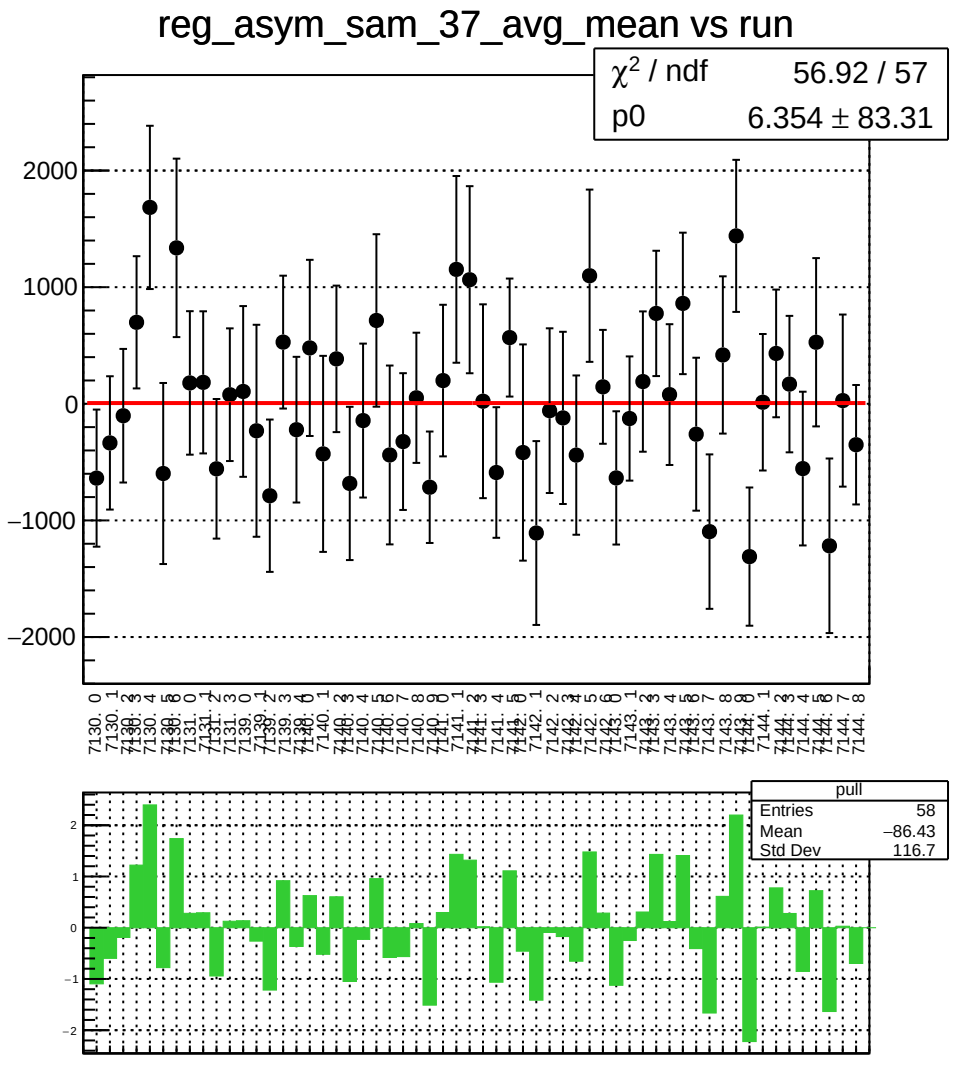

pull1D
Entries 58
Mean −0.03564
Std Dev 1.086

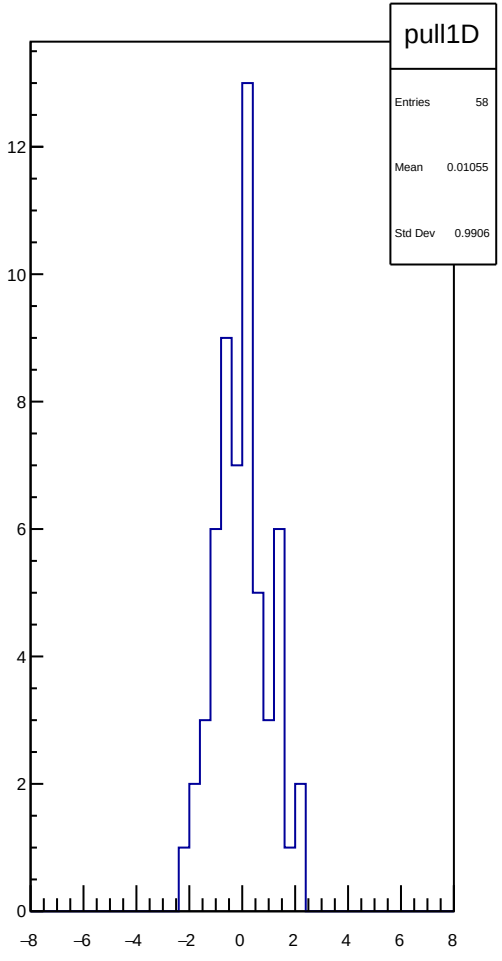

asym_sam_26_avg_correction_rms vs run
χ^2 / ndf 9781 / 57
p0 400 ± 0.3817
520
500
480
460
440
420
400
380
360
340
320

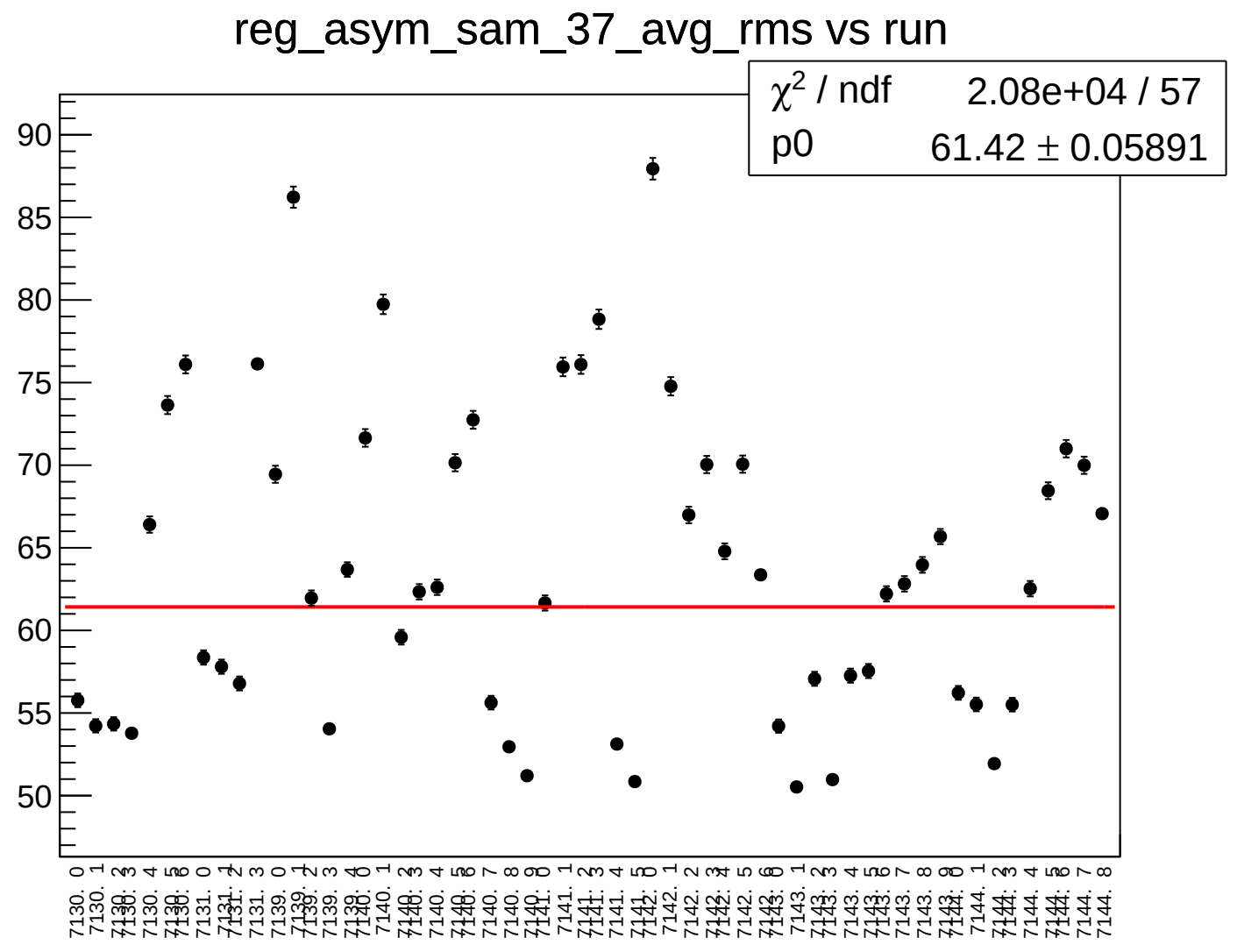

asym_sam_26_avg_mean vs run
χ² / ndf 63.26 / 57
p0 −1058 ± 548.2
pull
Entries 58
Mean 217.4
Std Dev 186.8

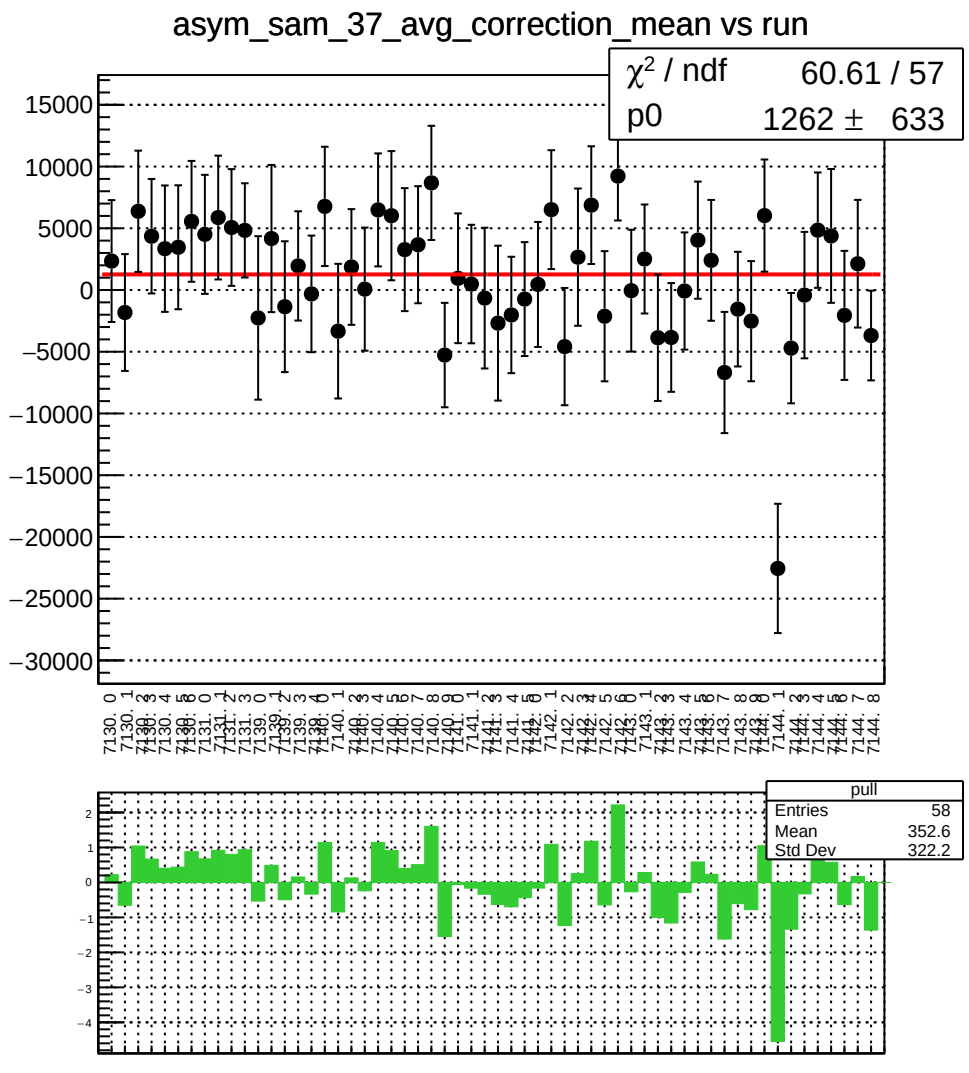

pull1D
Entries 58
Mean 0.03323
Std Dev 1.044

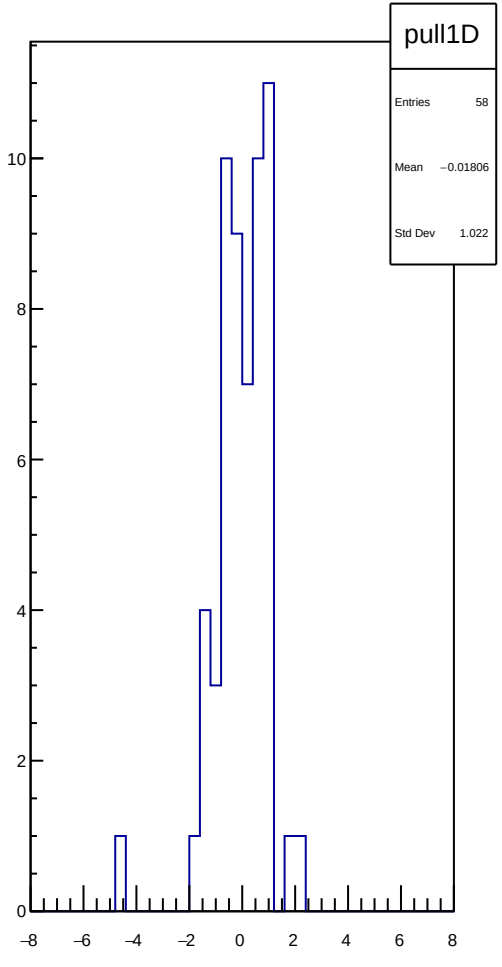

asym_sam_26_avg_rms vs run
χ^2 / ndf 9524 / 57
p0 406.3 ± 0.3876
540
520
500
480
460
440
420
400
380
360
340
320

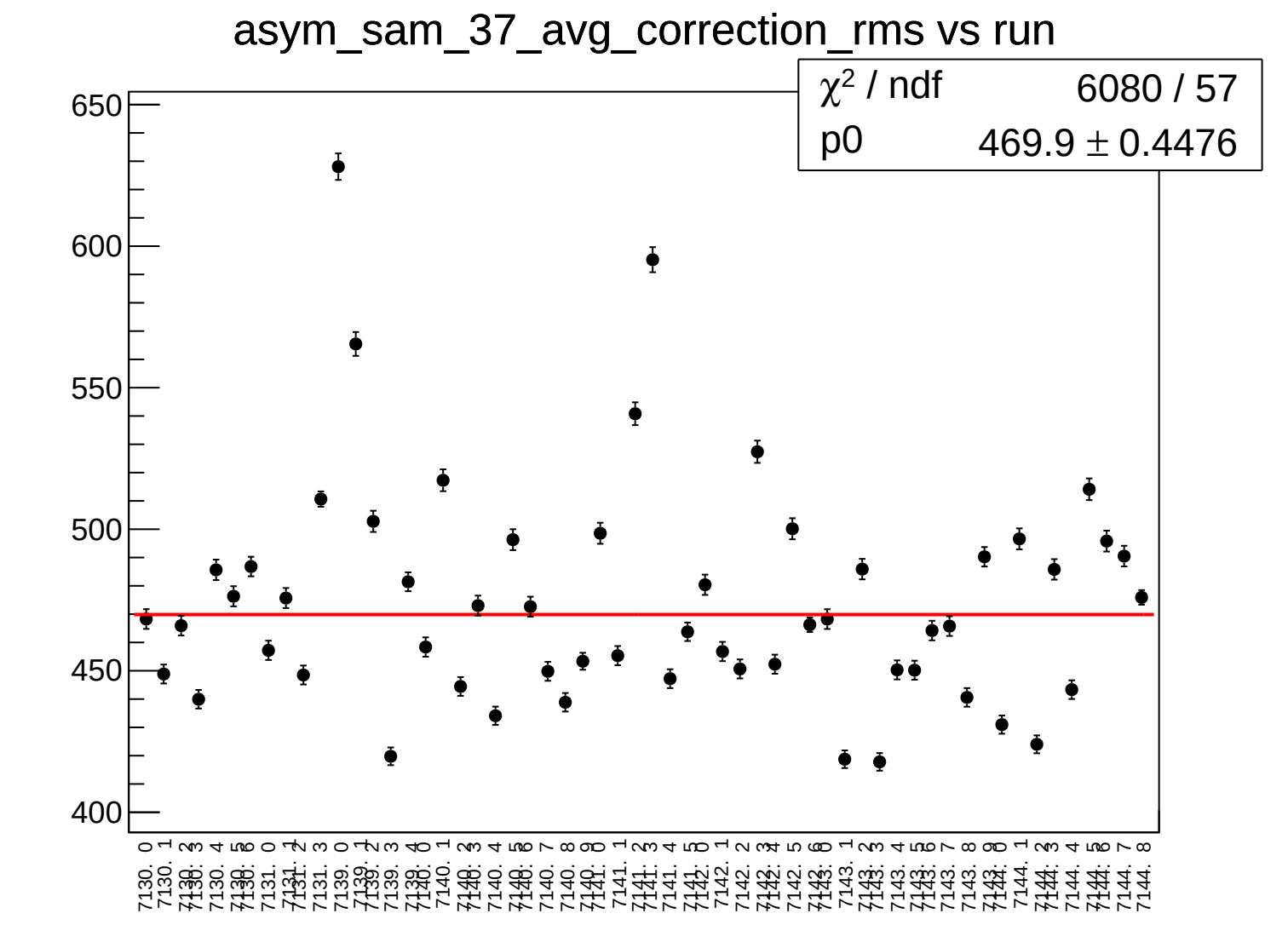

reg_asym_sam_37_avg_mean vs run
χ² / ndf 56.92 / 57
p0 6.354 ± 83.31
2000
1000
0
−1000
−2000
pull
Entries 58
Mean −86.43
Std Dev 116.7
2
1
0
−1
−2

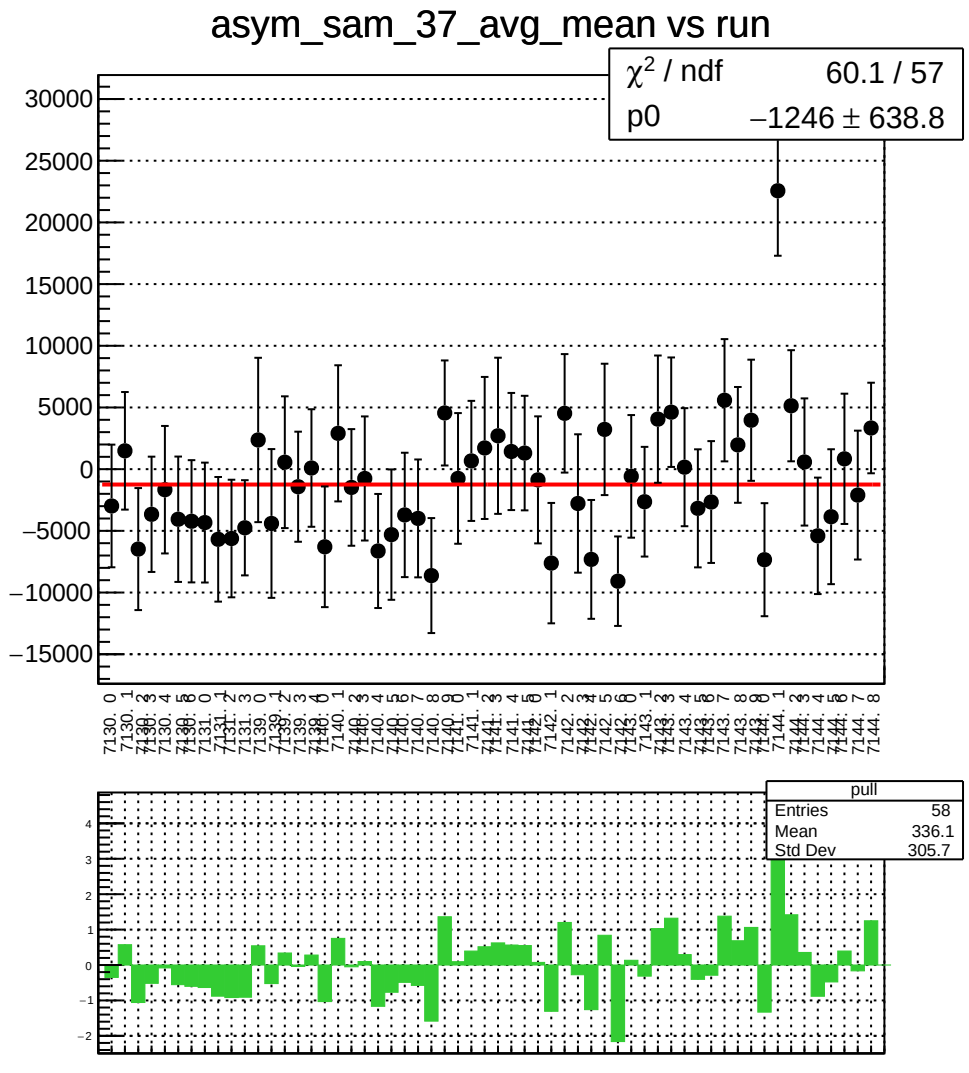

pull1D
Entries 58
Mean 0.01055
Std Dev 0.9906
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

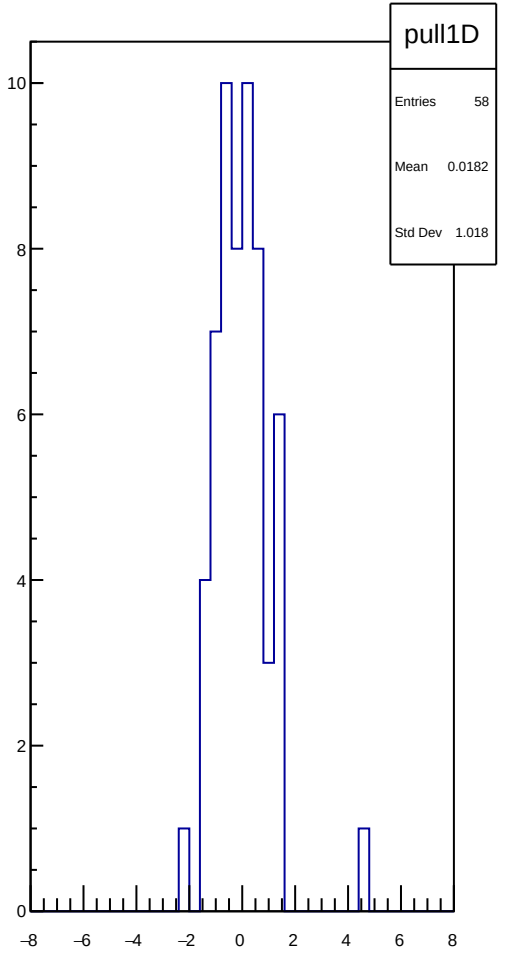

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.08e+04 / 57
p0 61.42 ± 0.05891
90
85
80
75
70
65
60
55
50

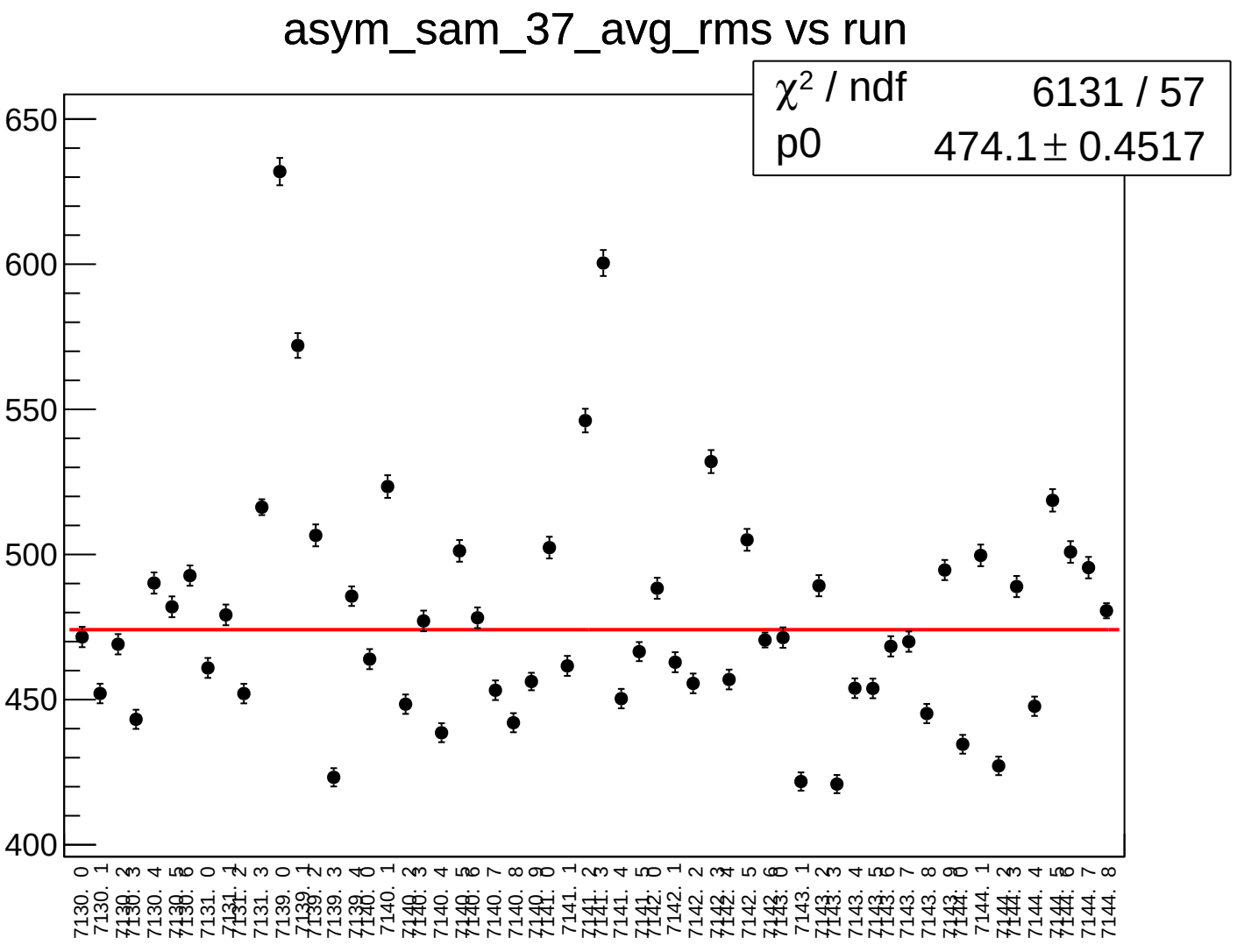

asym_sam_37_avg_correction_mean vs run
χ² / ndf 60.61 / 57
p0 1262 ± 633
pull
Entries 58
Mean 352.6
Std Dev 322.2

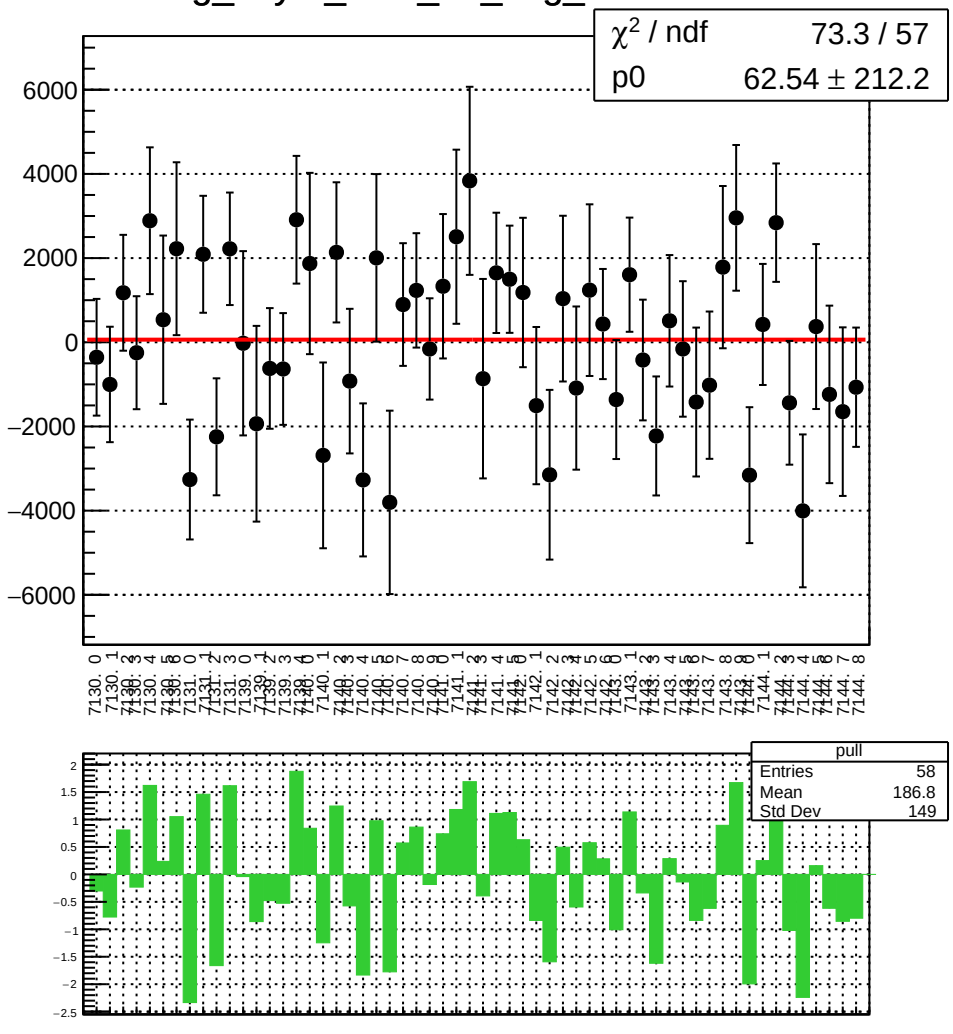

pull1D
Entries 58
Mean −0.01806
Std Dev 1.022

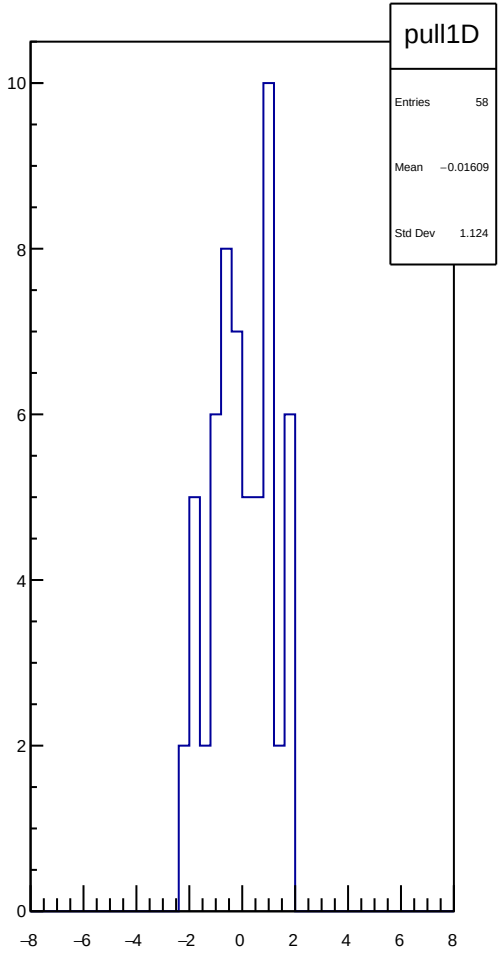

asym_sam_37_avg_correction_rms vs run
χ² / ndf 6080 / 57
p0 469.9 ± 0.4476
650
600
550
500
450
400

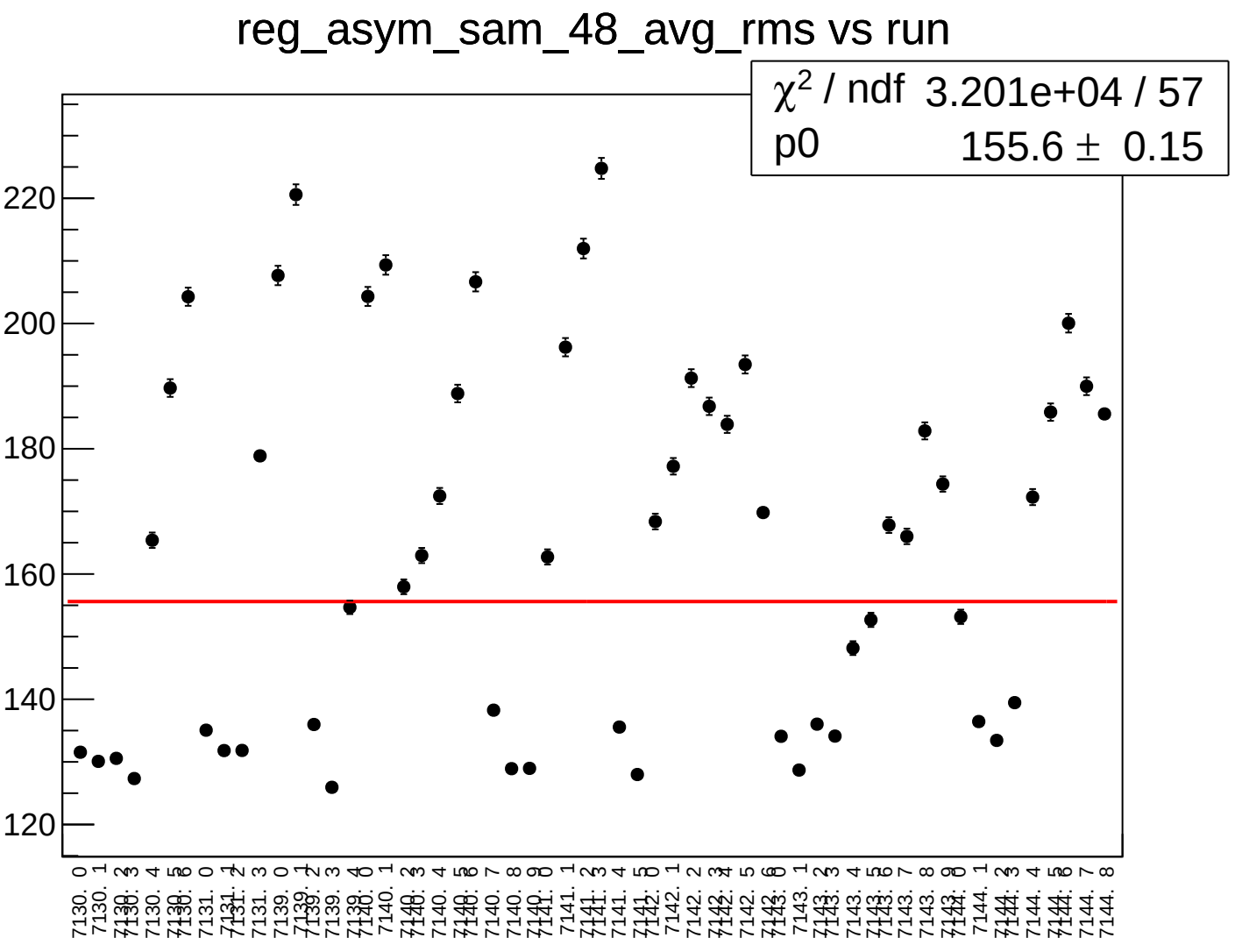

asym_sam_37_avg_mean vs run
χ² / ndf 60.1 / 57
p0 −1246 ± 638.8
pull
Entries 58
Mean 336.1
Std Dev 305.7

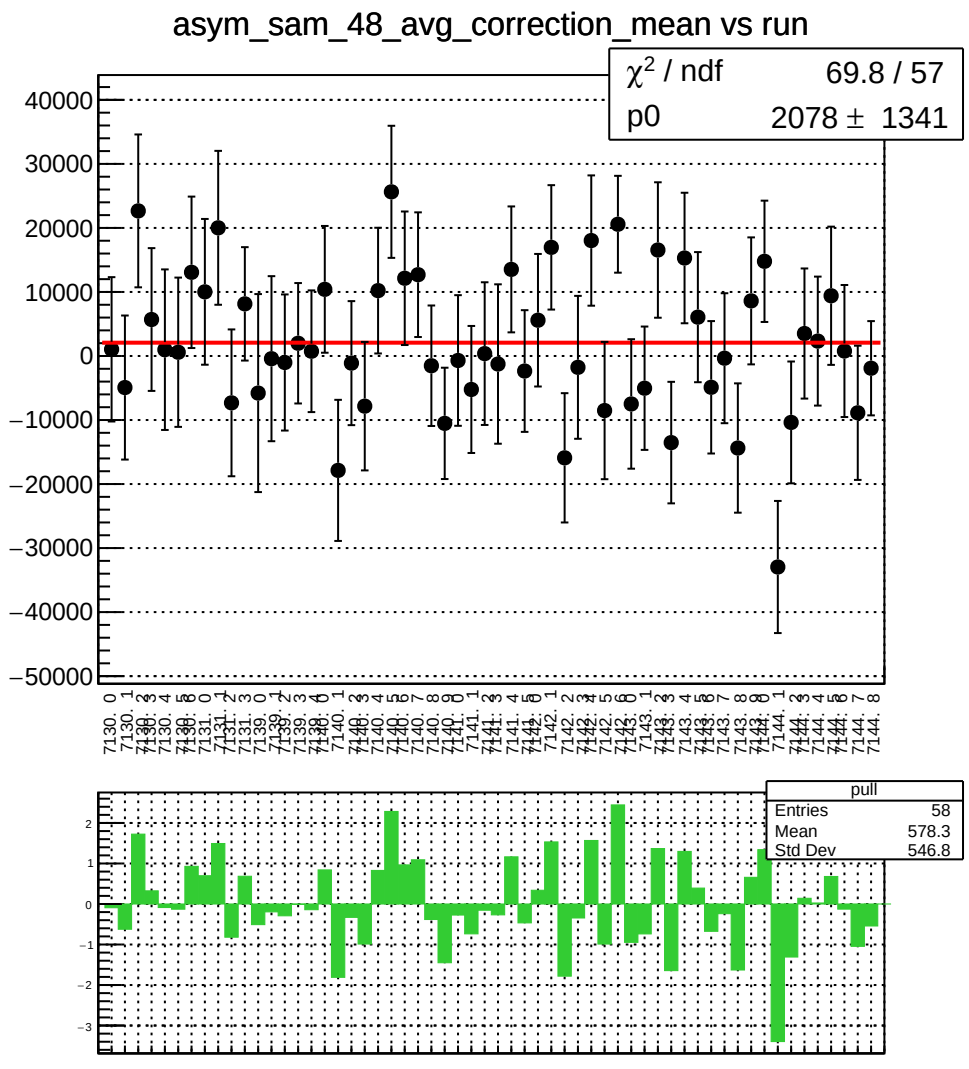

pull1D
Entries 58
Mean 0.0182
Std Dev 1.018

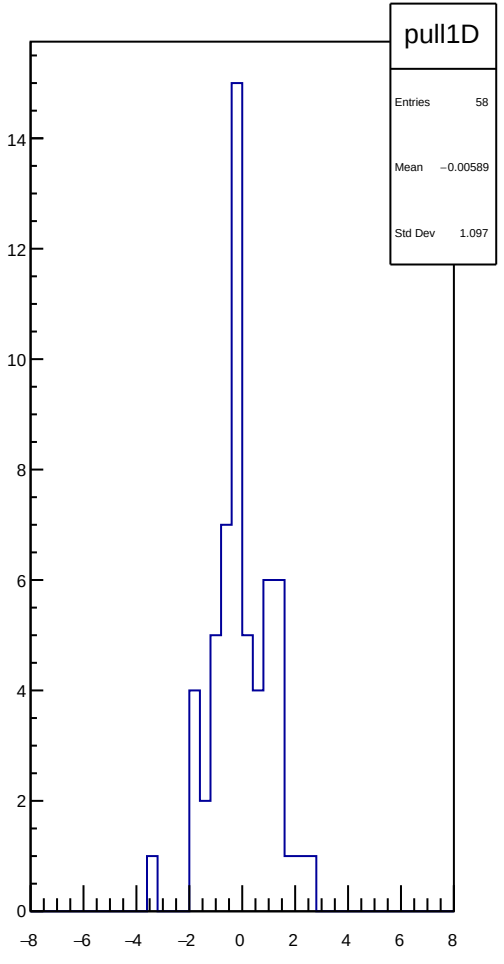

asym_sam_37_avg_rms vs run
χ² / ndf 6131 / 57
p0 474.1 ± 0.4517
650
600
550
500
450
400

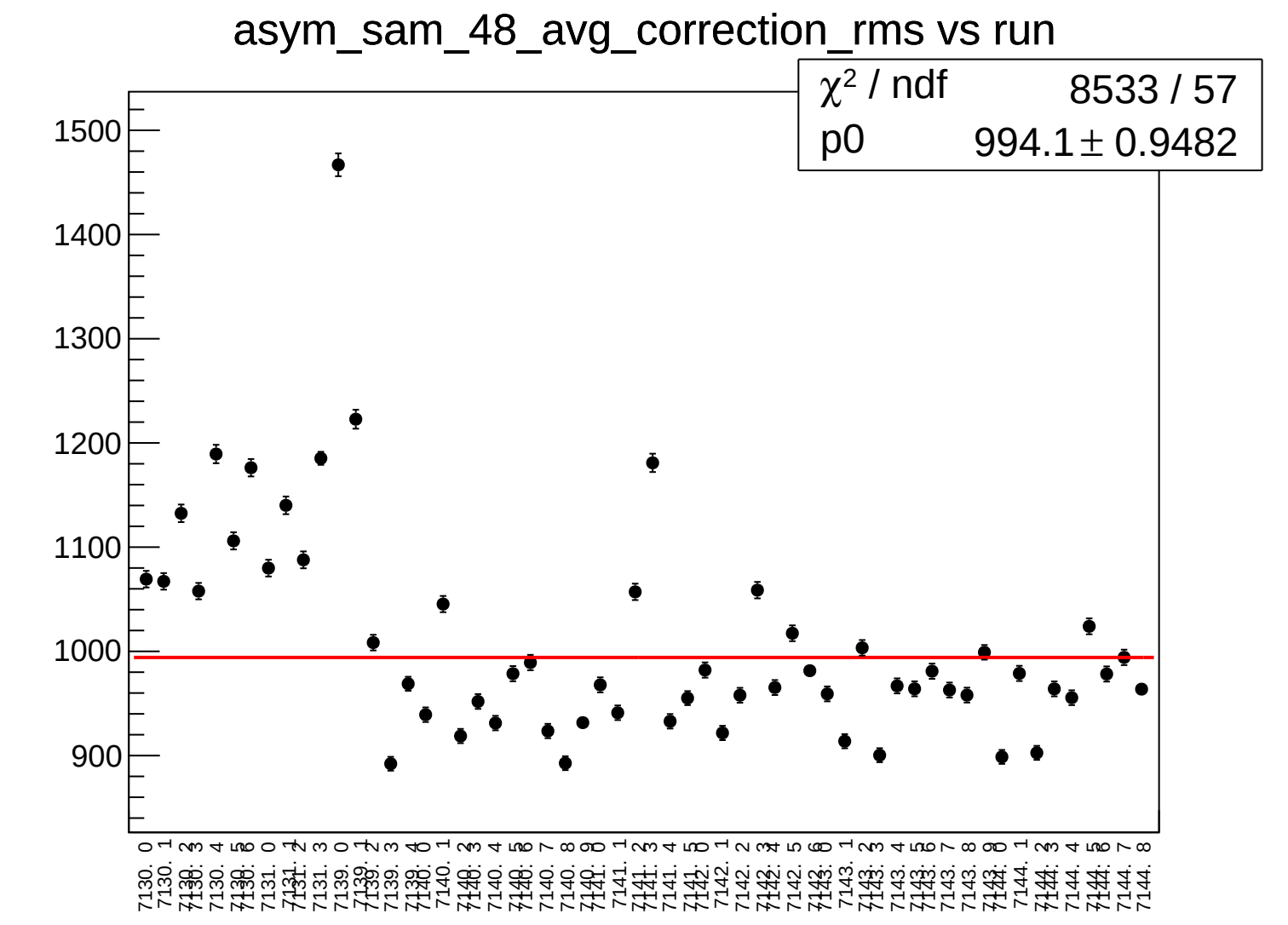

reg_asym_sam_48_avg_mean vs run
χ² / ndf 73.3 / 57
p0 62.54 ± 212.2
pull
Entries 58
Mean 186.8
Std Dev 149

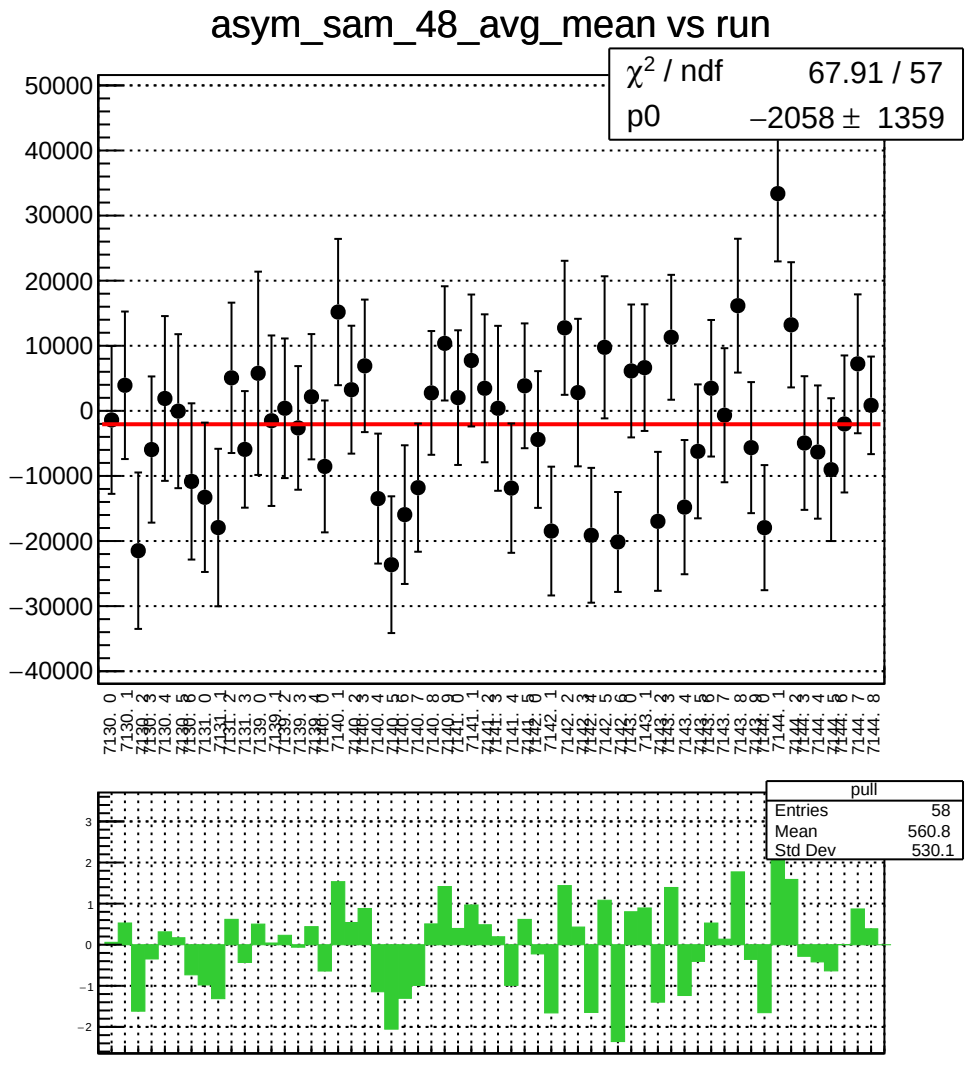

pull1D
Entries 58
Mean −0.01609
Std Dev 1.124

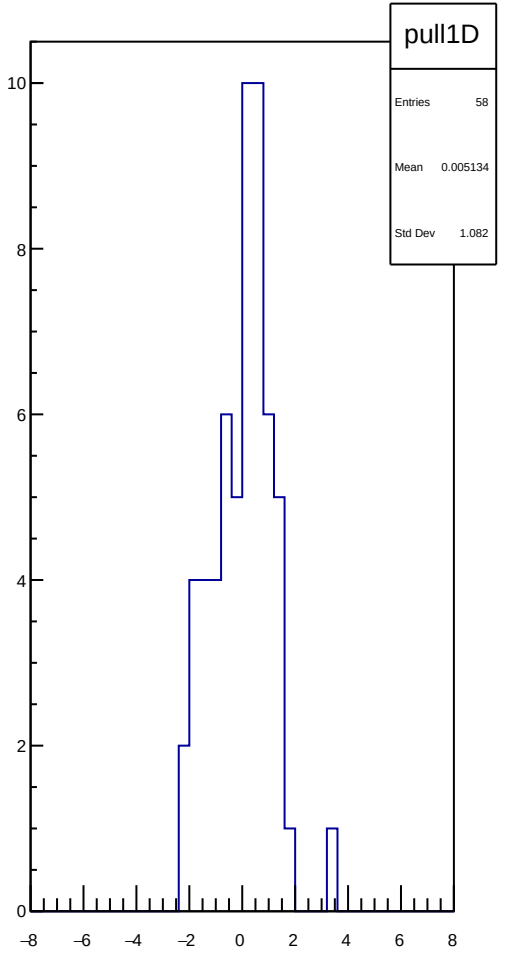

reg_asym_sam_48_avg_rms vs run
χ² / ndf 3.201e+04 / 57
p0 155.6 ± 0.15
220
200
180
160
140
120

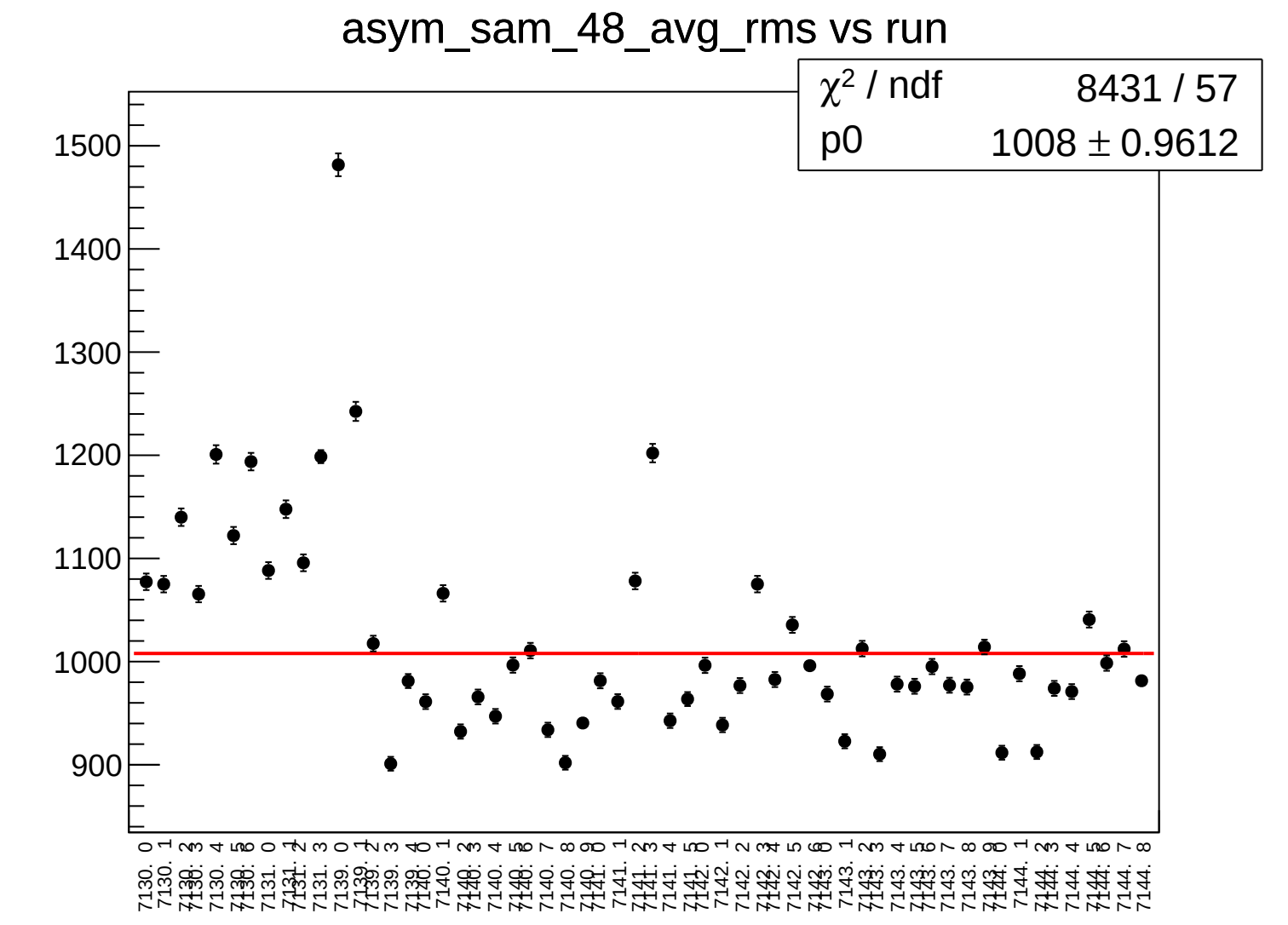

asym_sam_48_avg_correction_mean vs run
χ² / ndf 69.8 / 57
p0 2078 ± 1341
pull
Entries 58
Mean 578.3
Std Dev 546.8

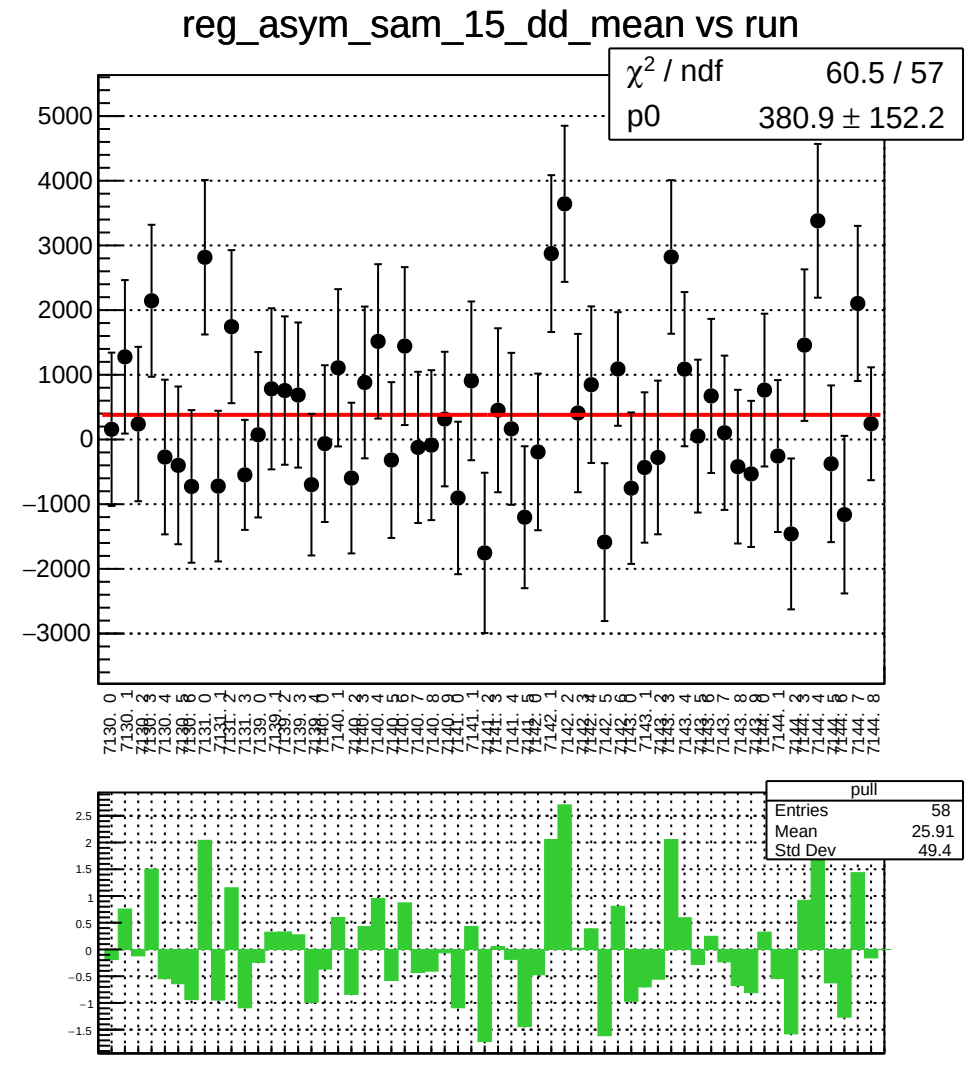

pull1D
Entries 58
Mean −0.00589
Std Dev 1.097

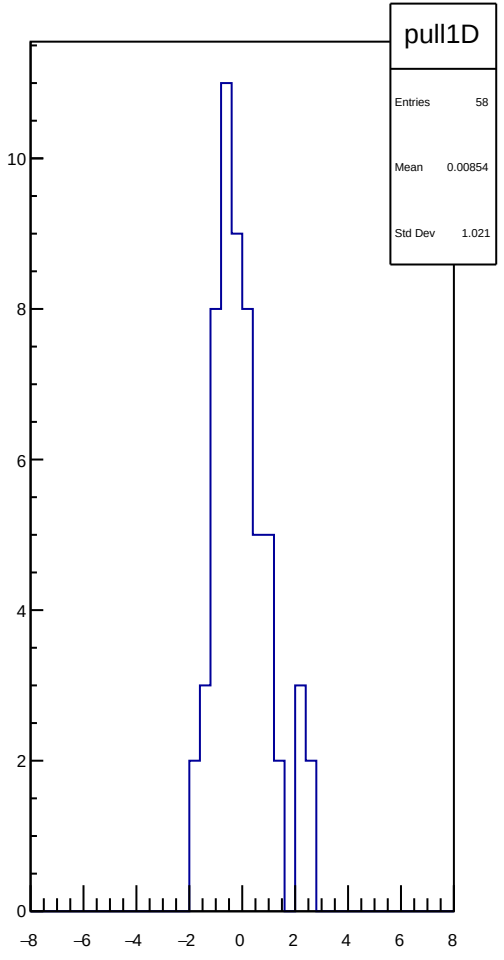

asym_sam_48_avg_correction_rms vs run
χ² / ndf 8533 / 57
p0 994.1 ± 0.9482
1500
1400
1300
1200
1100
1000
900
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

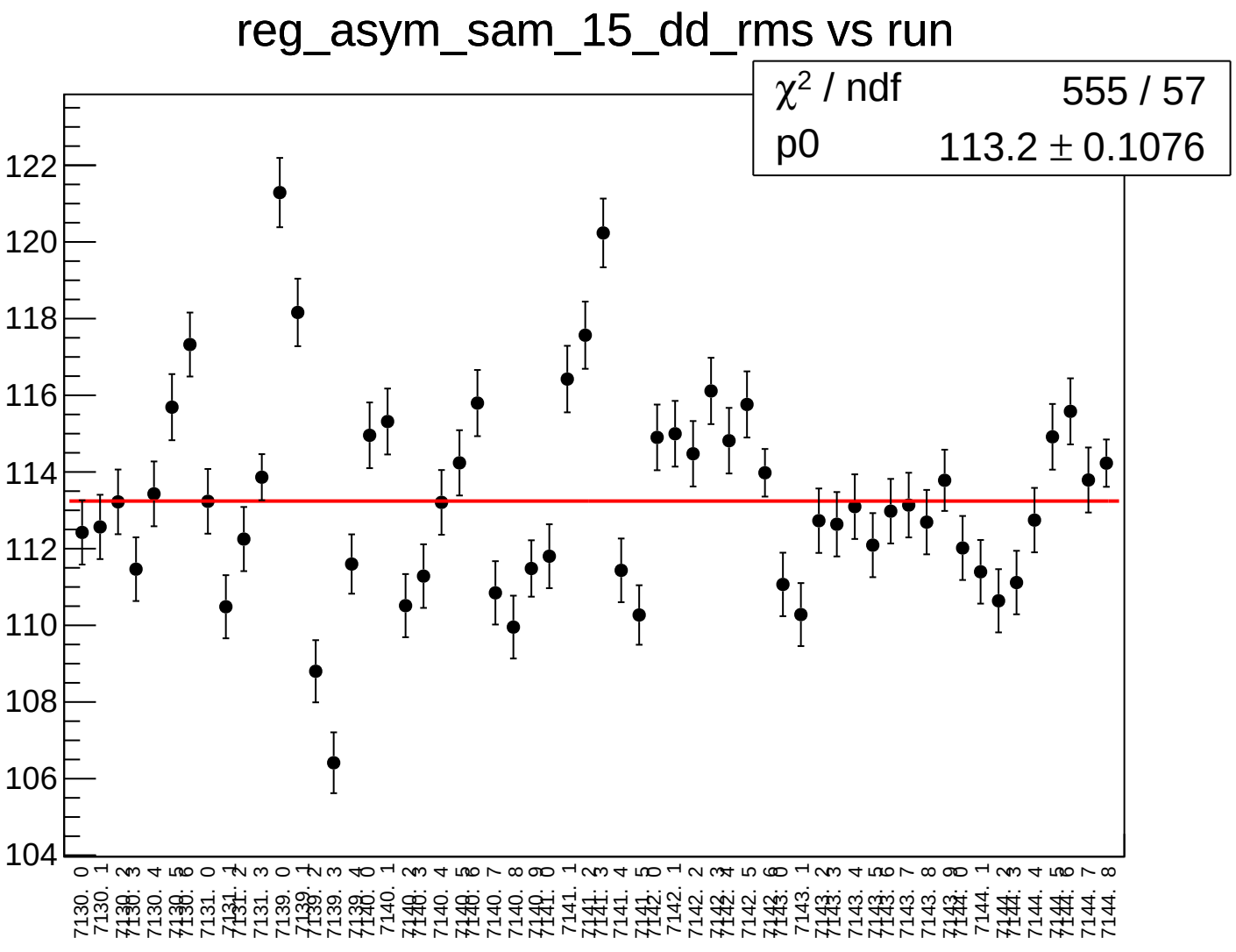

asym_sam_48_avg_mean vs run
χ² / ndf 67.91 / 57
p0 −2058 ± 1359
pull
Entries 58
Mean 560.8
Std Dev 530.1

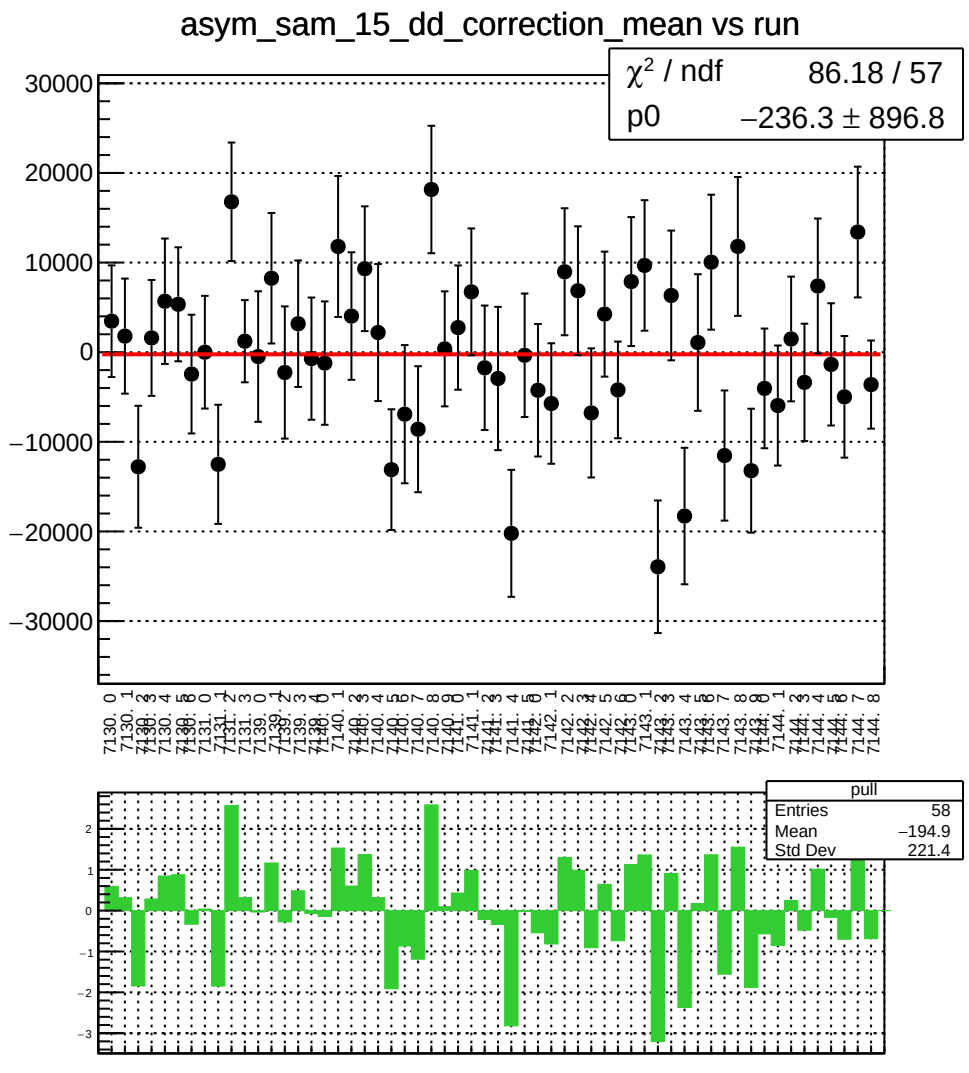

pull1D
Entries 58
Mean 0.005134
Std Dev 1.082

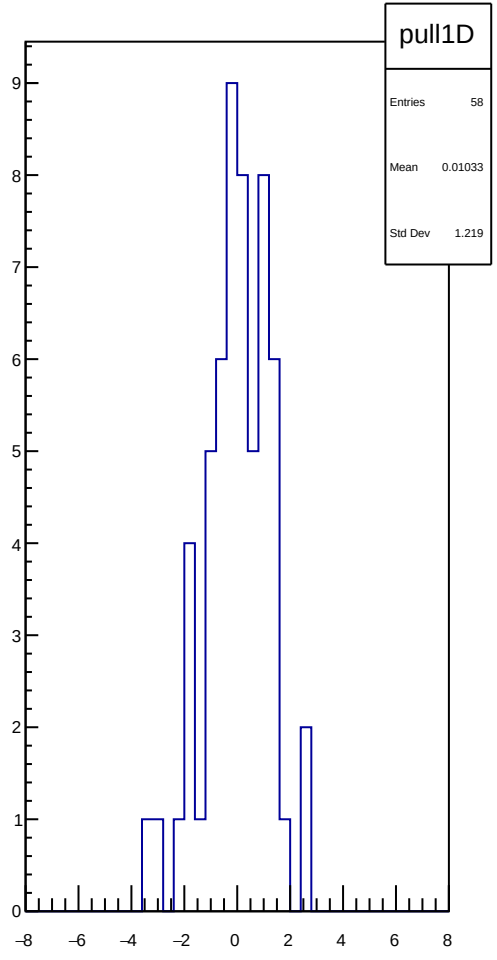

asym_sam_48_avg_rms vs run
χ² / ndf 8431 / 57
p0 1008 ± 0.9612
1500
1400
1300
1200
1100
1000
900
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

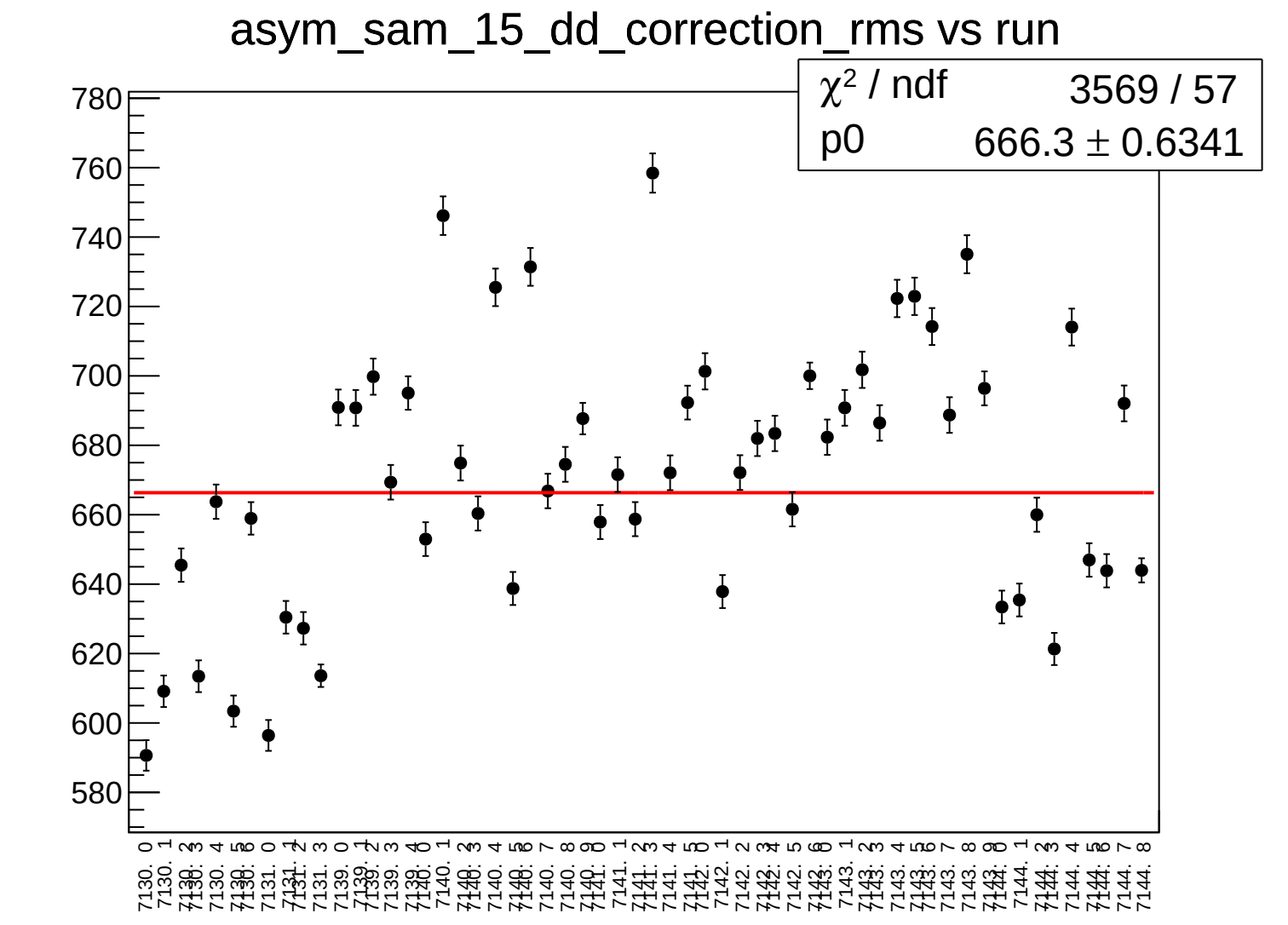

reg_asym_sam_15_dd_mean vs run
χ^2 / ndf 60.5 / 57
p0 380.9 ± 152.2
pull
Entries 58
Mean 25.91
Std Dev 49.4

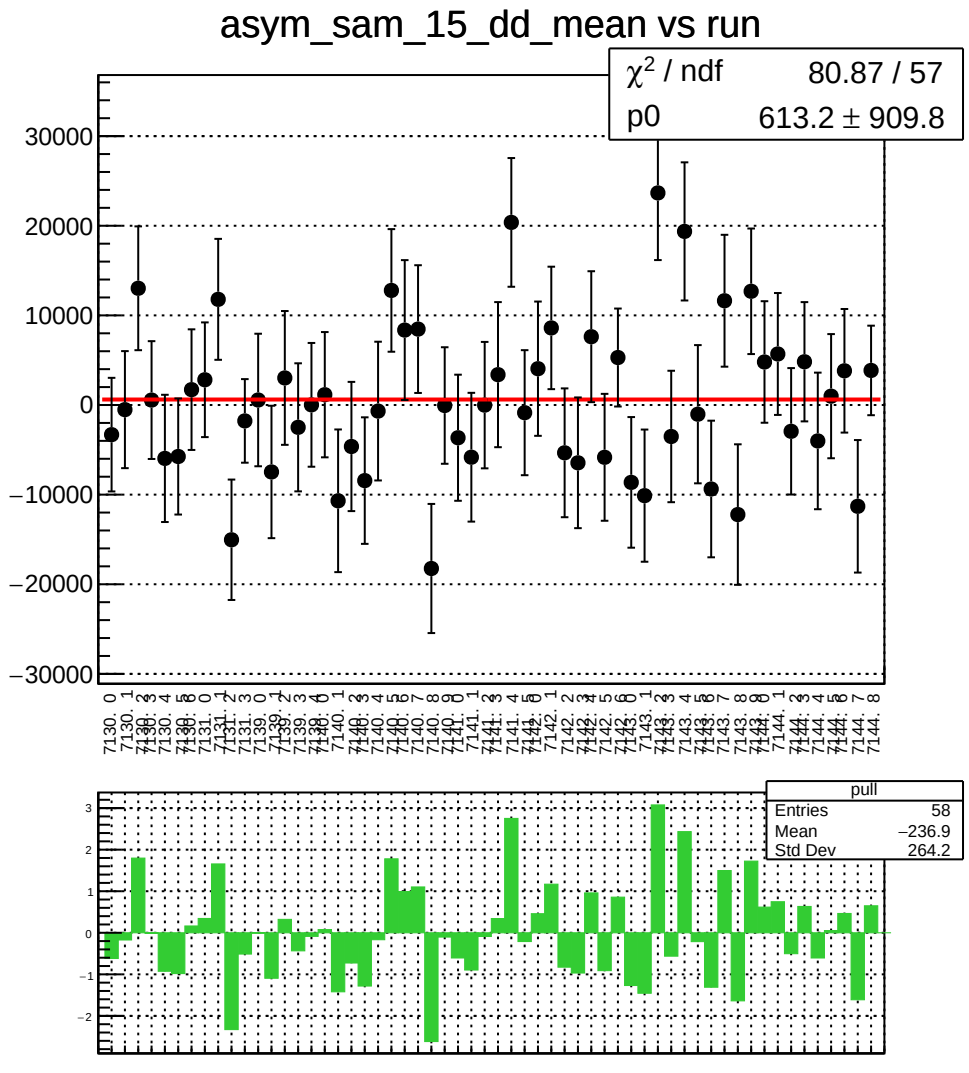

pull1D
Entries 58
Mean 0.00854
Std Dev 1.021

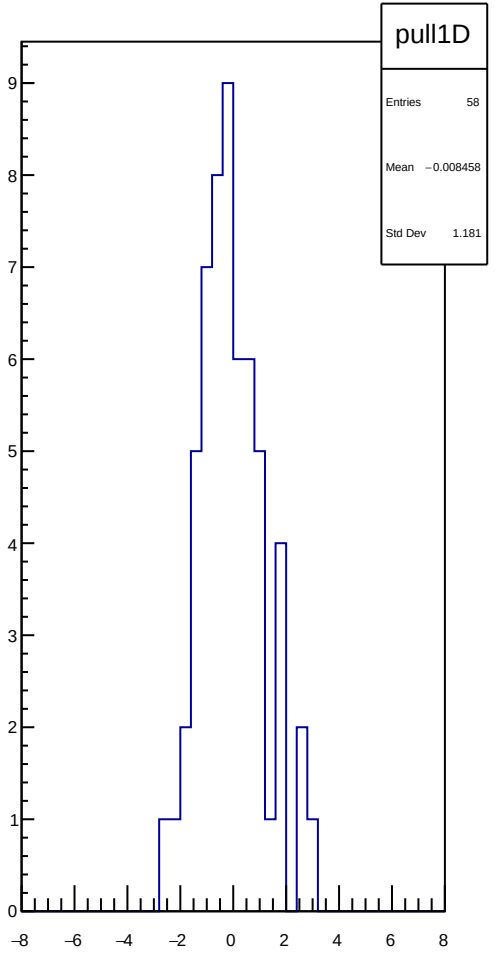

reg_asym_sam_15_dd_rms vs run
χ² / ndf 555 / 57
p0 113.2 ± 0.1076
122
120
118
116
114
112
110
108
106
104

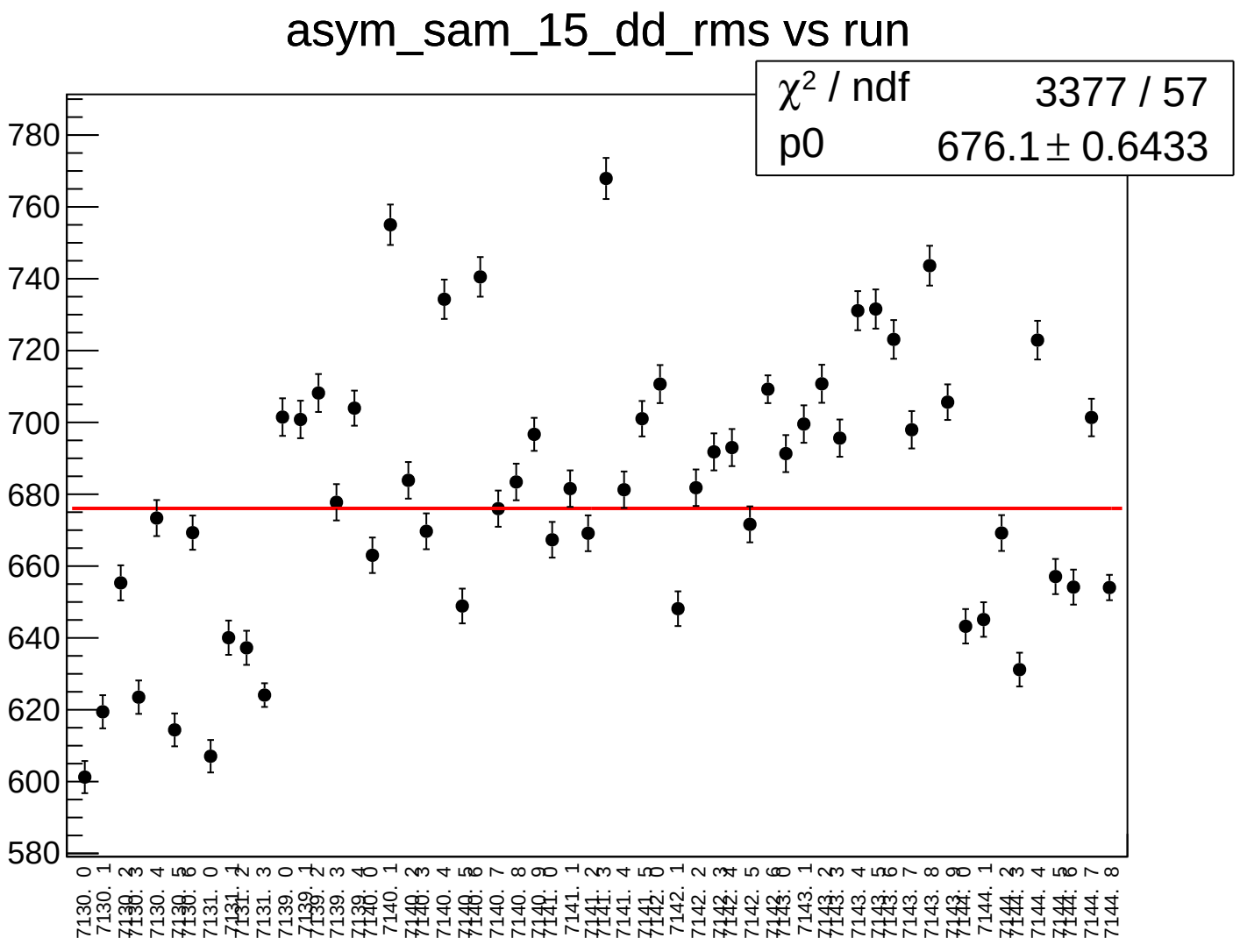

asym_sam_15_dd_correction_mean vs run
χ² / ndf 86.18 / 57
p0 −236.3 ± 896.8
pull
Entries 58
Mean −194.9
Std Dev 221.4

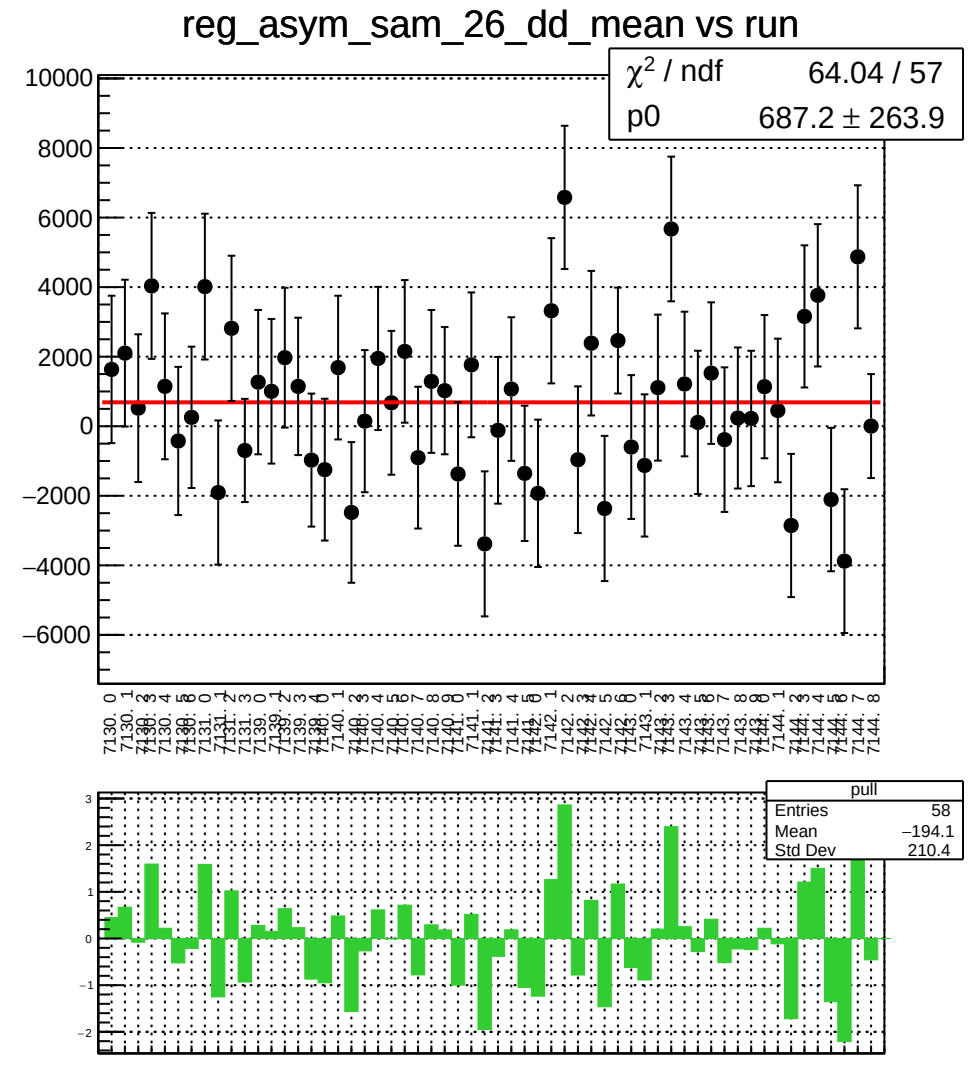

pull1D
Entries 58
Mean 0.01033
Std Dev 1.219

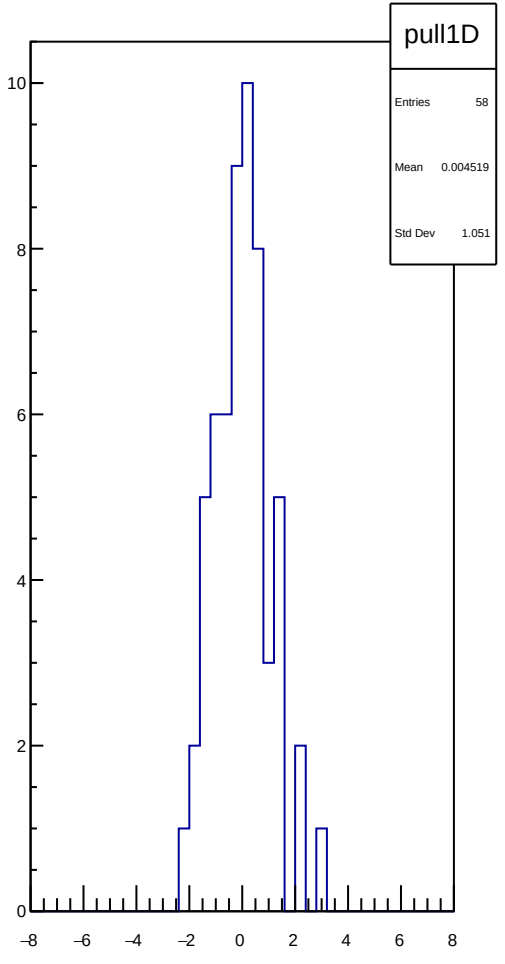

asym_sam_15_dd_correction_rms vs run
χ² / ndf 3569 / 57
p0 666.3 ± 0.6341
780
760
740
720
700
680
660
640
620
600
580

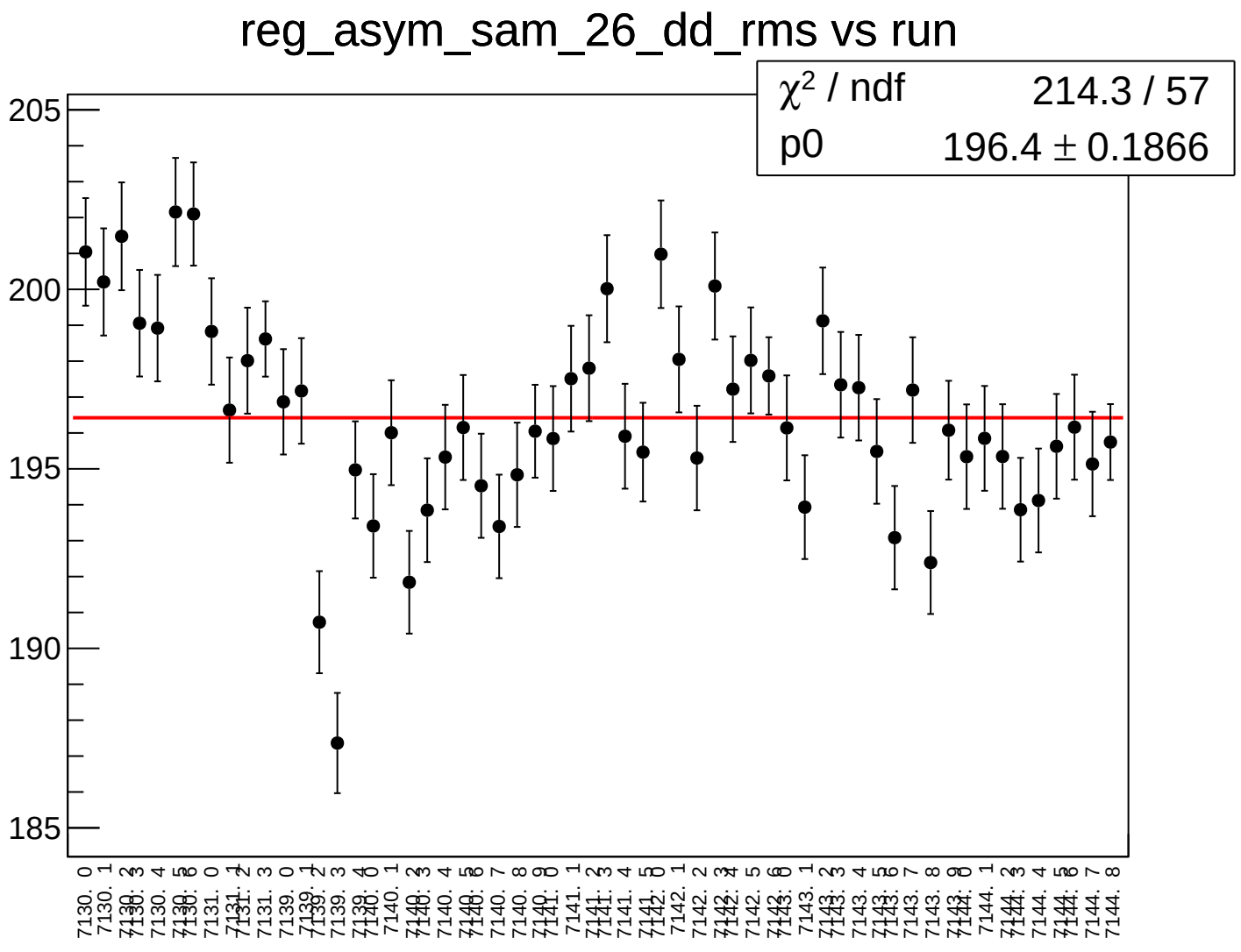

asym_sam_15_dd_mean vs run
χ² / ndf 80.87 / 57
p0 613.2 ± 909.8
pull
Entries 58
Mean −236.9
Std Dev 264.2

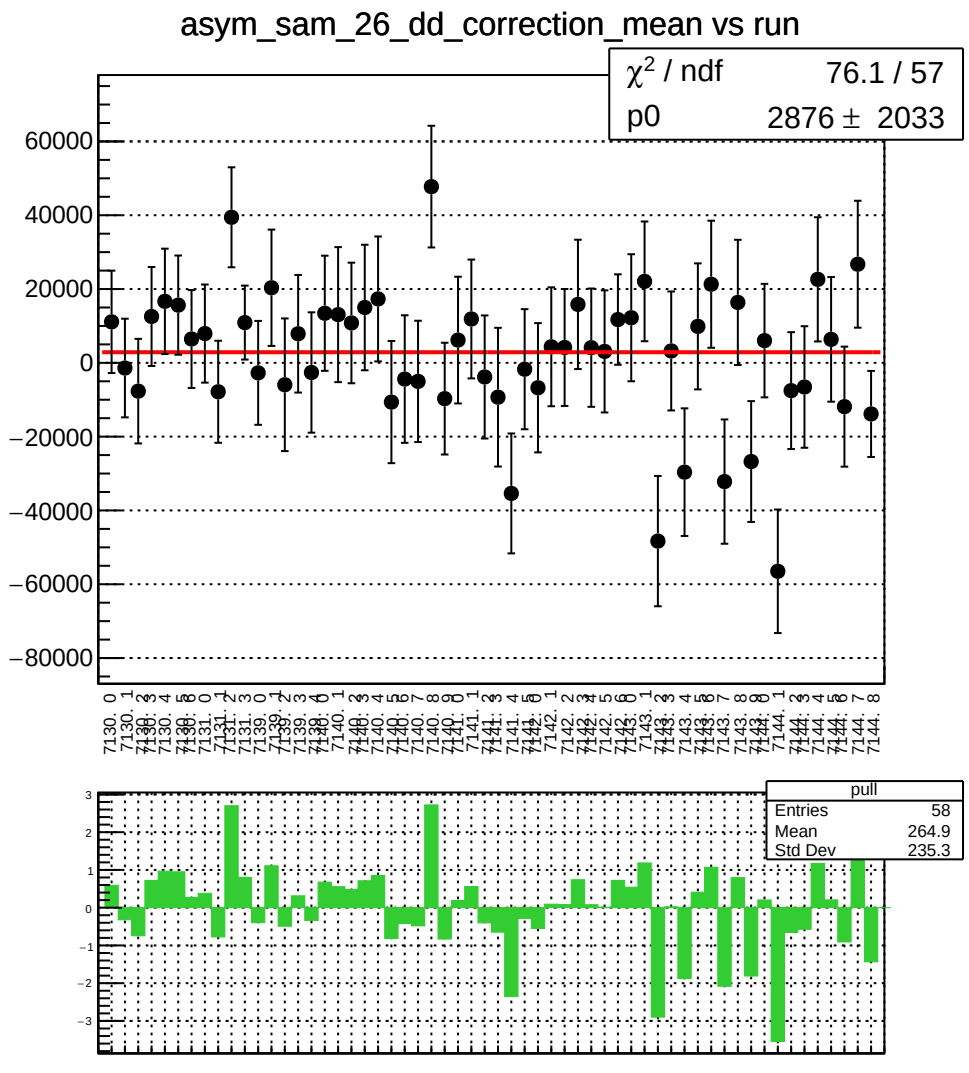

pull1D
Entries 58
Mean −0.008458
Std Dev 1.181

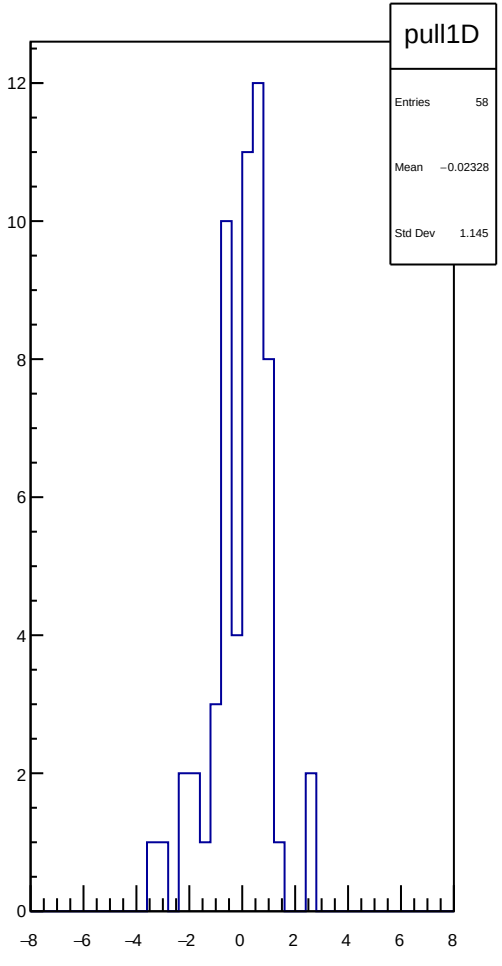

asym_sam_15_dd_rms vs run
χ² / ndf 3377 / 57
p0 676.1 ± 0.6433
780
760
740
720
700
680
660
640
620
600
580

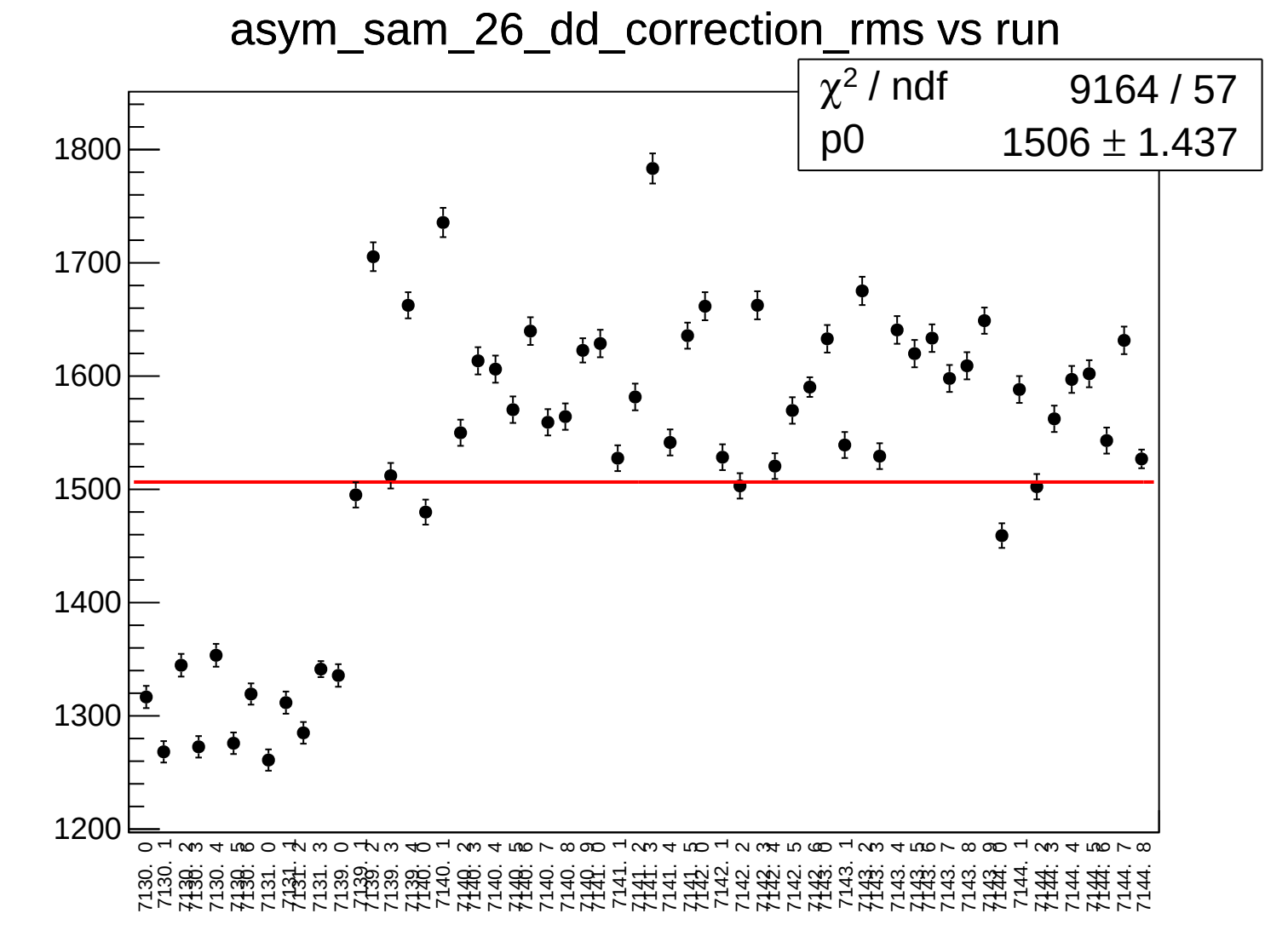

reg_asym_sam_26_dd_mean vs run
χ^2 / ndf 64.04 / 57
p0 687.2 ± 263.9
pull
Entries 58
Mean −194.1
Std Dev 210.4

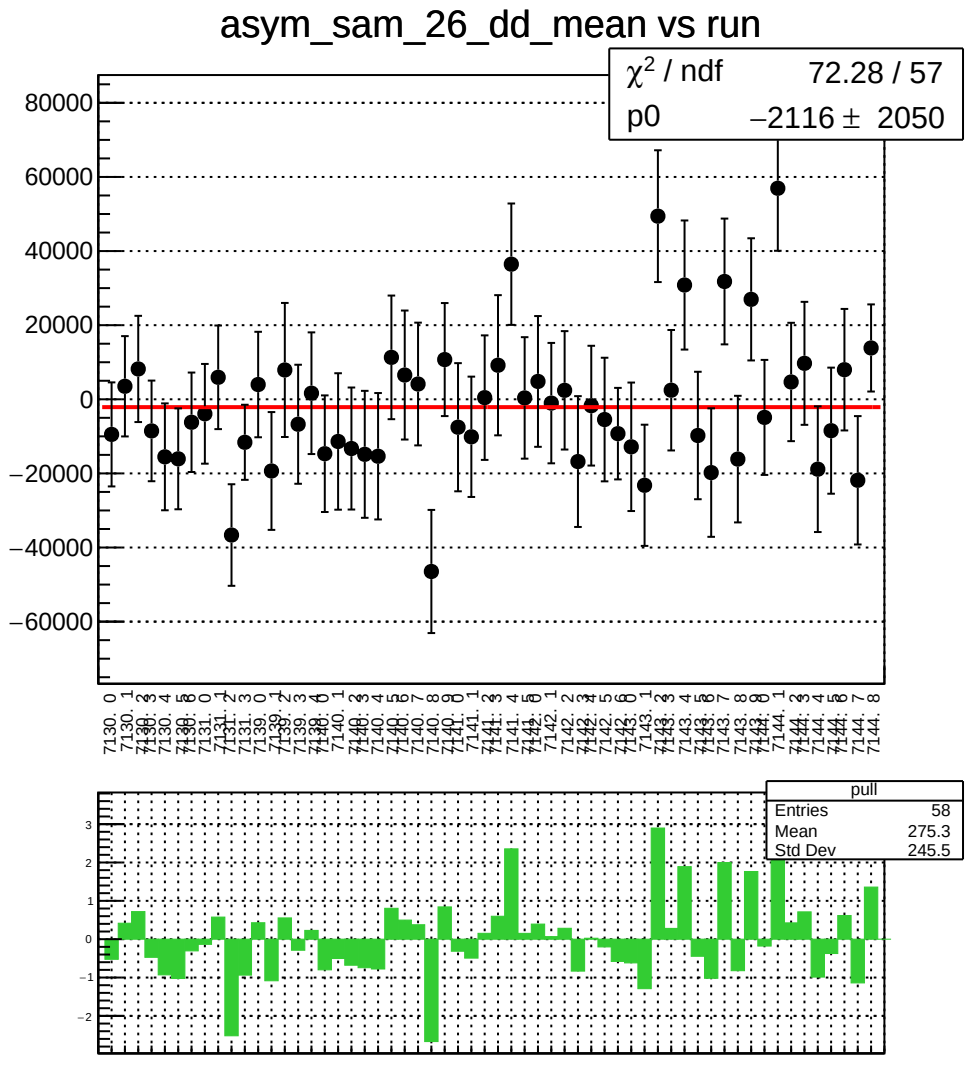

pull1D
Entries 58
Mean 0.004519
Std Dev 1.051

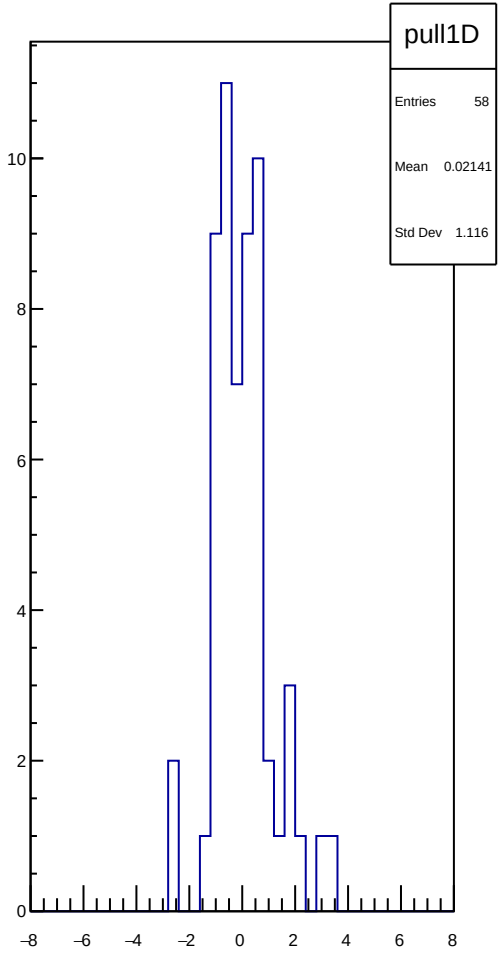

reg_asym_sam_26_dd_rms vs run
χ² / ndf 214.3 / 57
p0 196.4 ± 0.1866
205
200
195
190
185

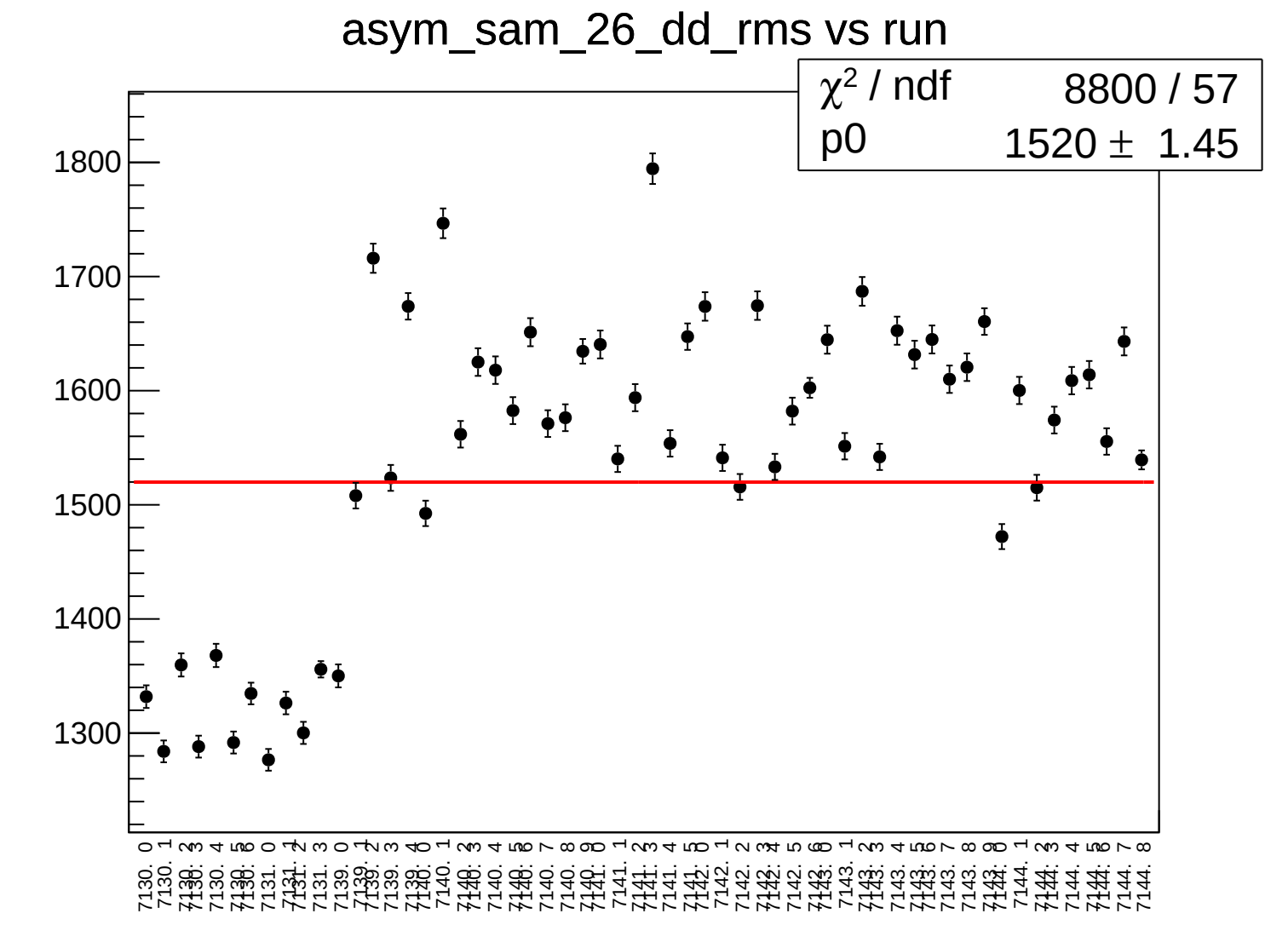

asym_sam_26_dd_correction_mean vs run
χ² / ndf 76.1 / 57
p0 2876 ± 2033
pull
Entries 58
Mean 264.9
Std Dev 235.3

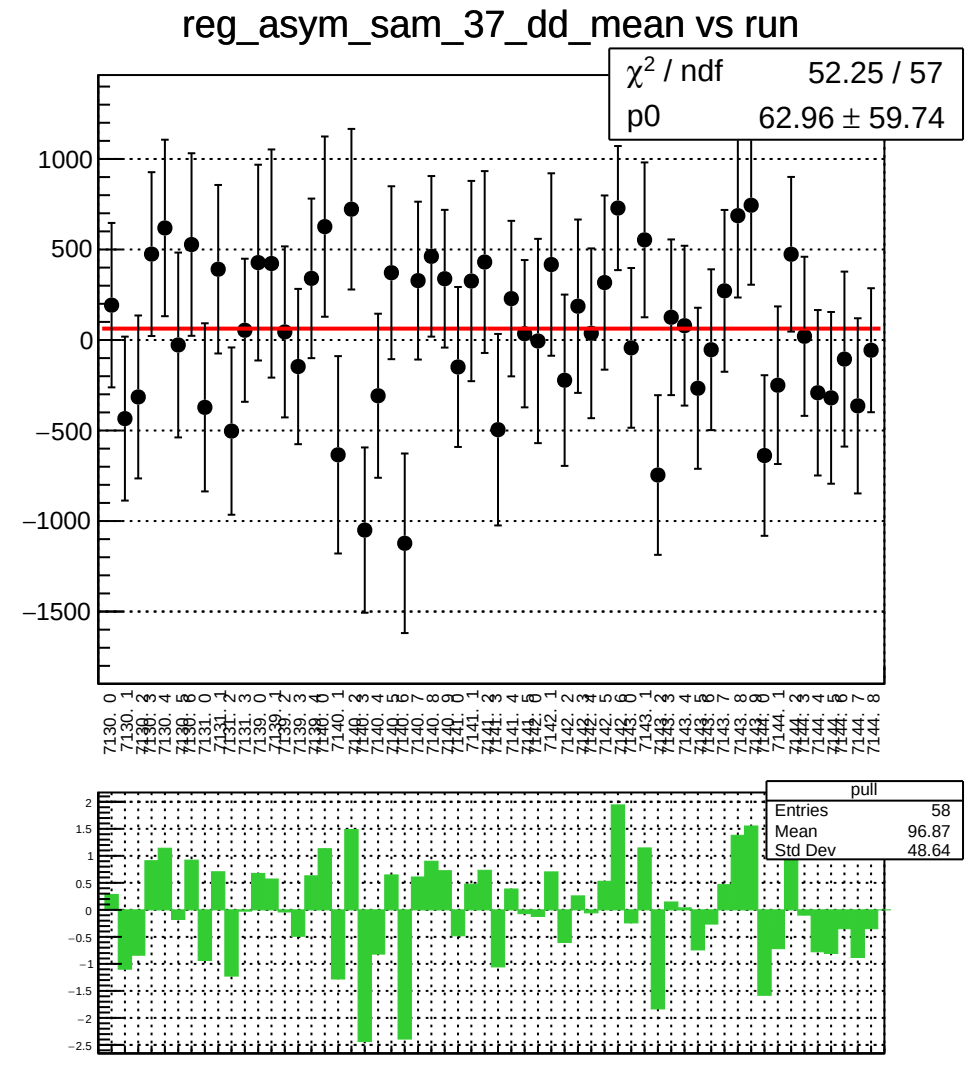

pull1D
Entries 58
Mean −0.02328
Std Dev 1.145

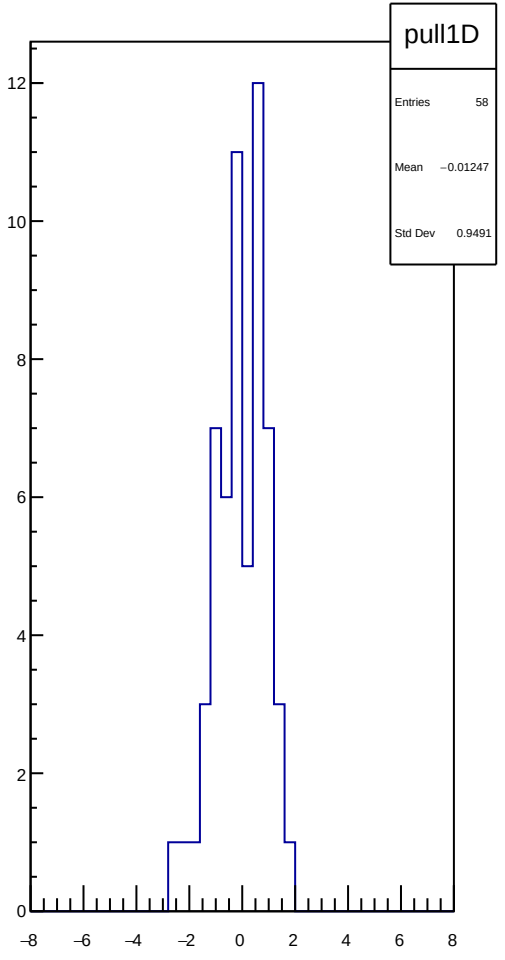

asym_sam_26_dd_correction_rms vs run
χ² / ndf 9164 / 57
p0 1506 ± 1.437
1800
1700
1600
1500
1400
1300
1200

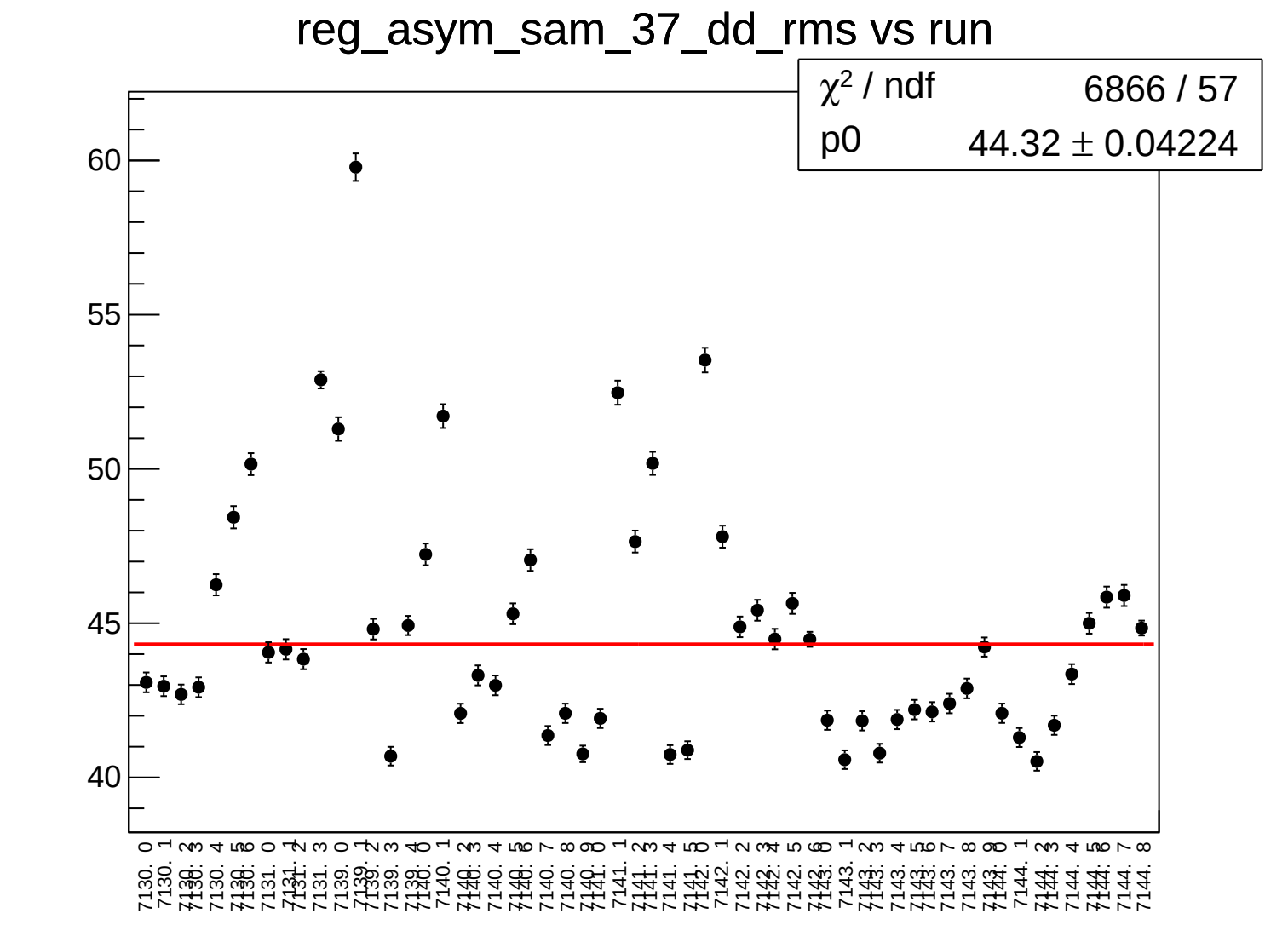

asym_sam_26_dd_mean vs run
χ² / ndf 72.28 / 57
p0 −2116 ± 2050
pull
Entries 58
Mean 275.3
Std Dev 245.5

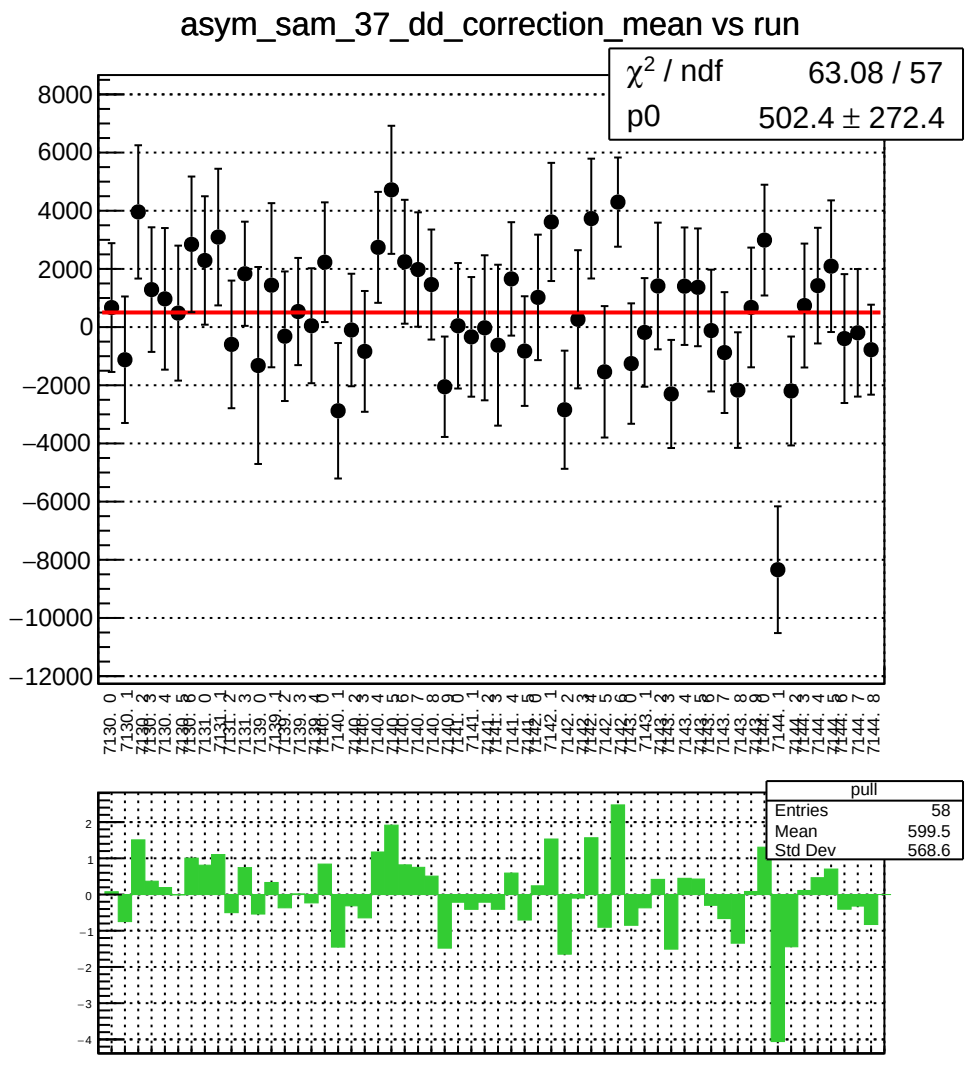

pull1D
Entries 58
Mean 0.02141
Std Dev 1.116

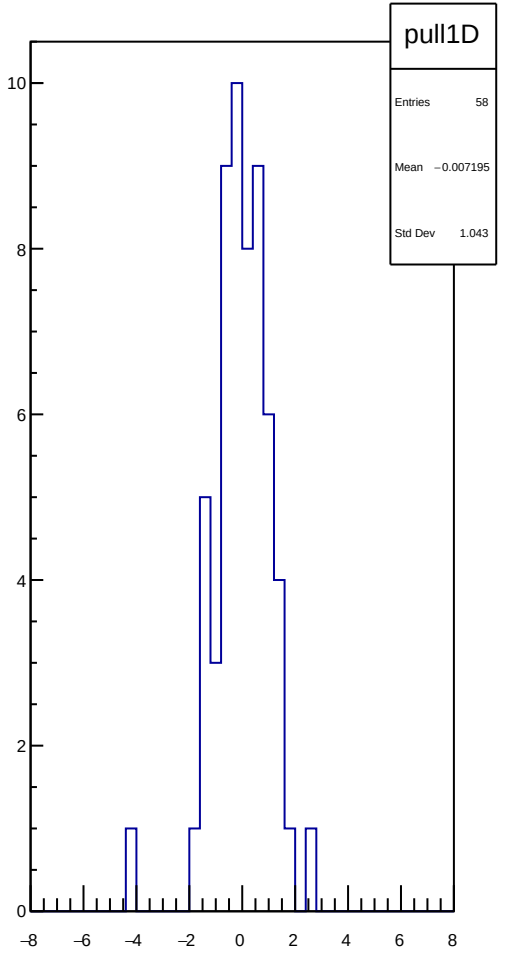

asym_sam_26_dd_rms vs run
χ² / ndf 8800 / 57
p0 1520 ± 1.45
1800
1700
1600
1500
1400
1300
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

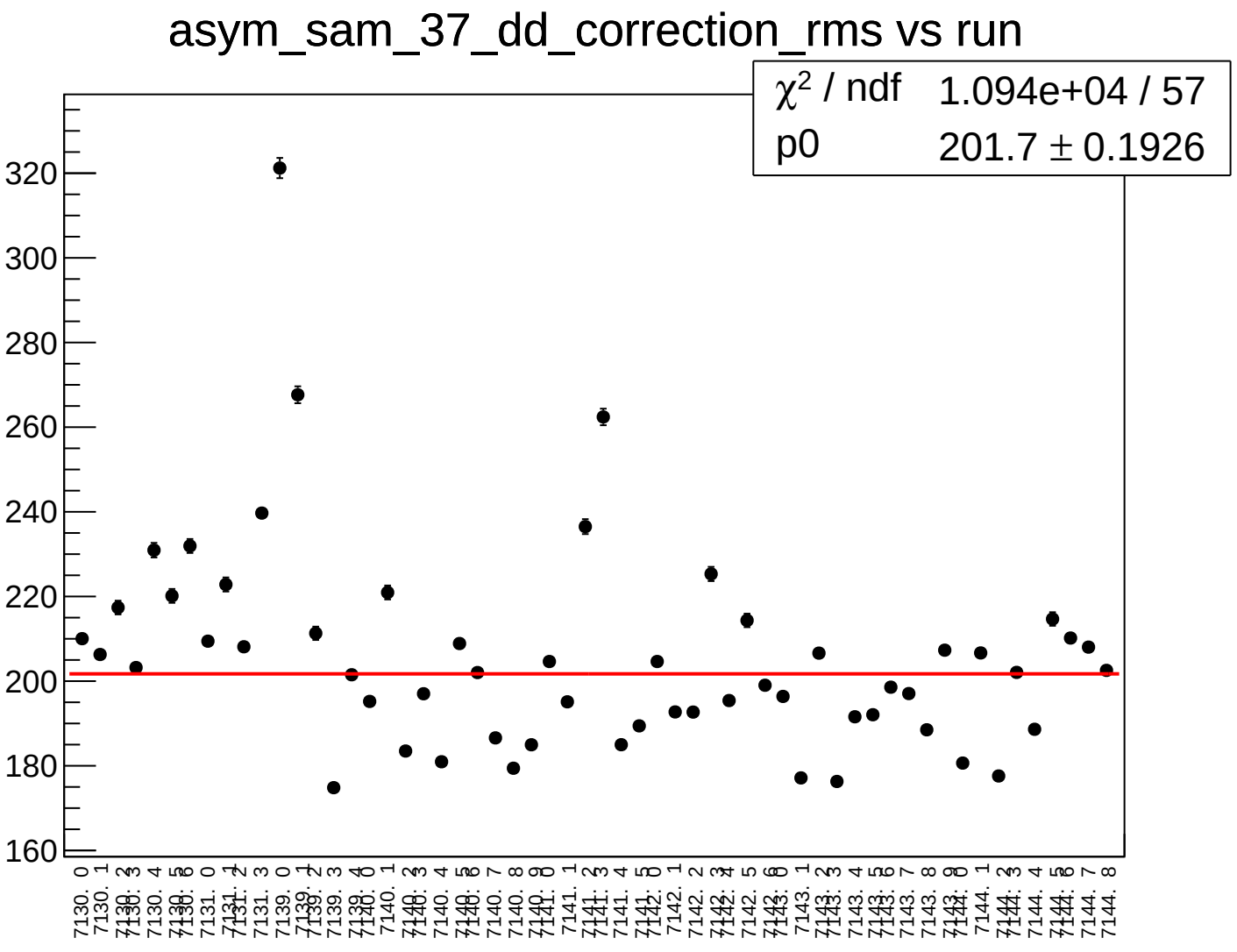

reg_asym_sam_37_dd_mean vs run
χ² / ndf 52.25 / 57
p0 62.96 ± 59.74
pull
Entries 58
Mean 96.87
Std Dev 48.64

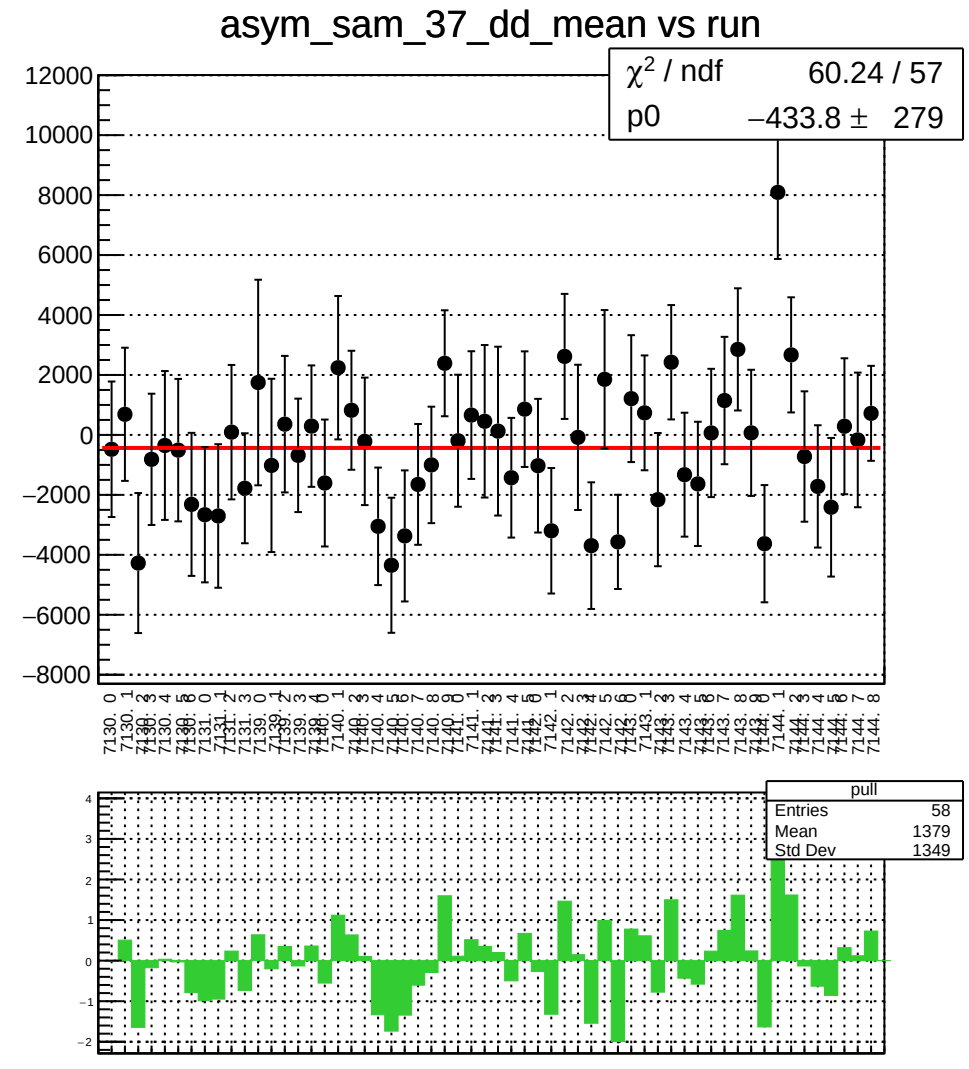

pull1D
Entries 58
Mean −0.01247
Std Dev 0.9491

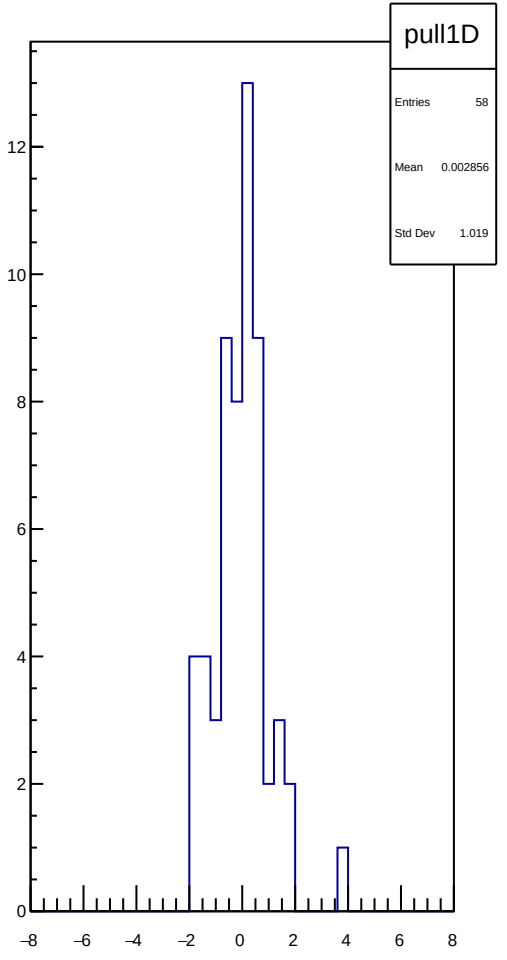

reg_asym_sam_37_dd_rms vs run
χ² / ndf 6866 / 57
p0 44.32 ± 0.04224
60
55
50
45
40

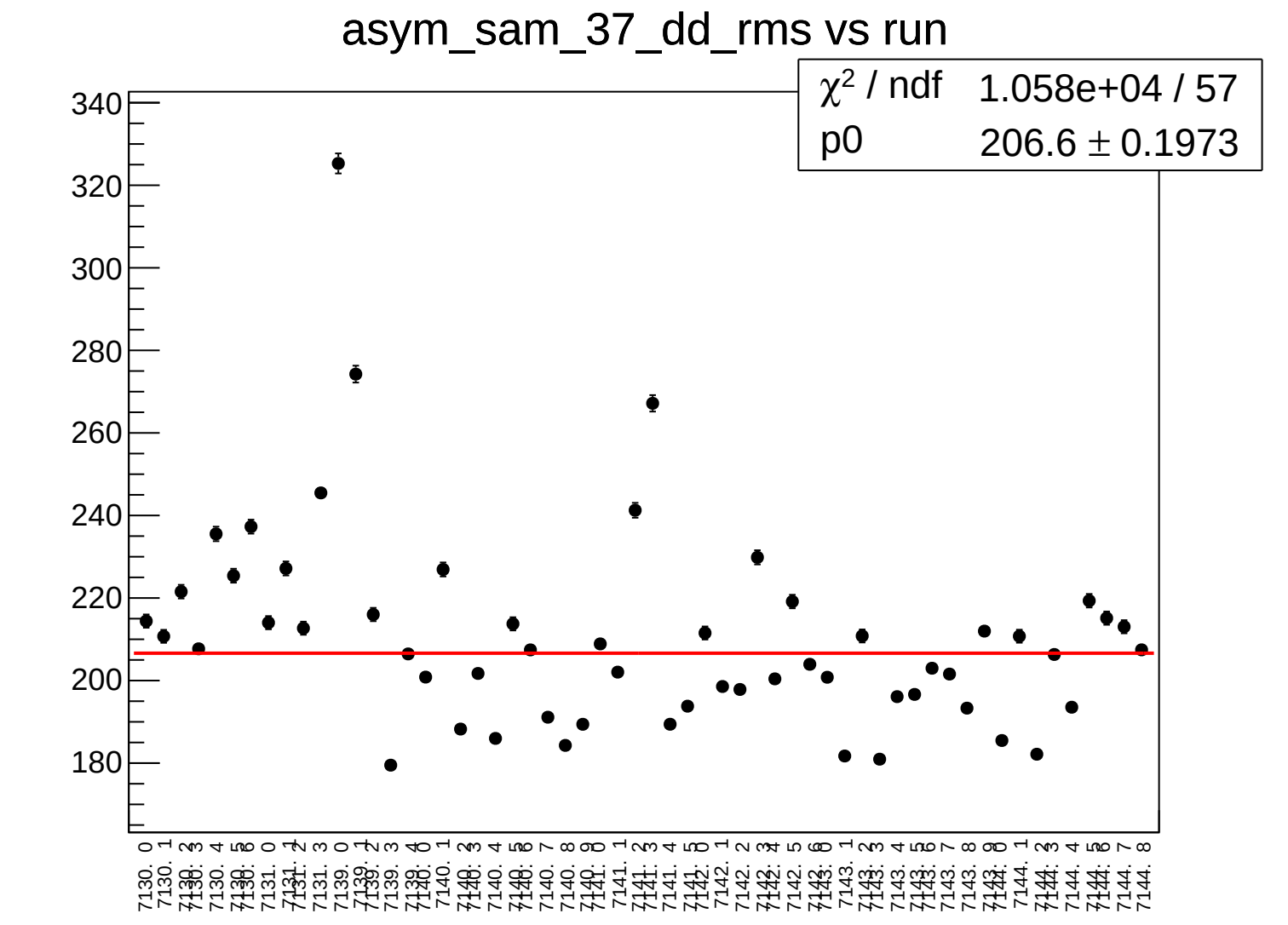

asym_sam_37_dd_correction_mean vs run
χ² / ndf 63.08 / 57
p0 502.4 ± 272.4
pull
Entries 58
Mean 599.5
Std Dev 568.6

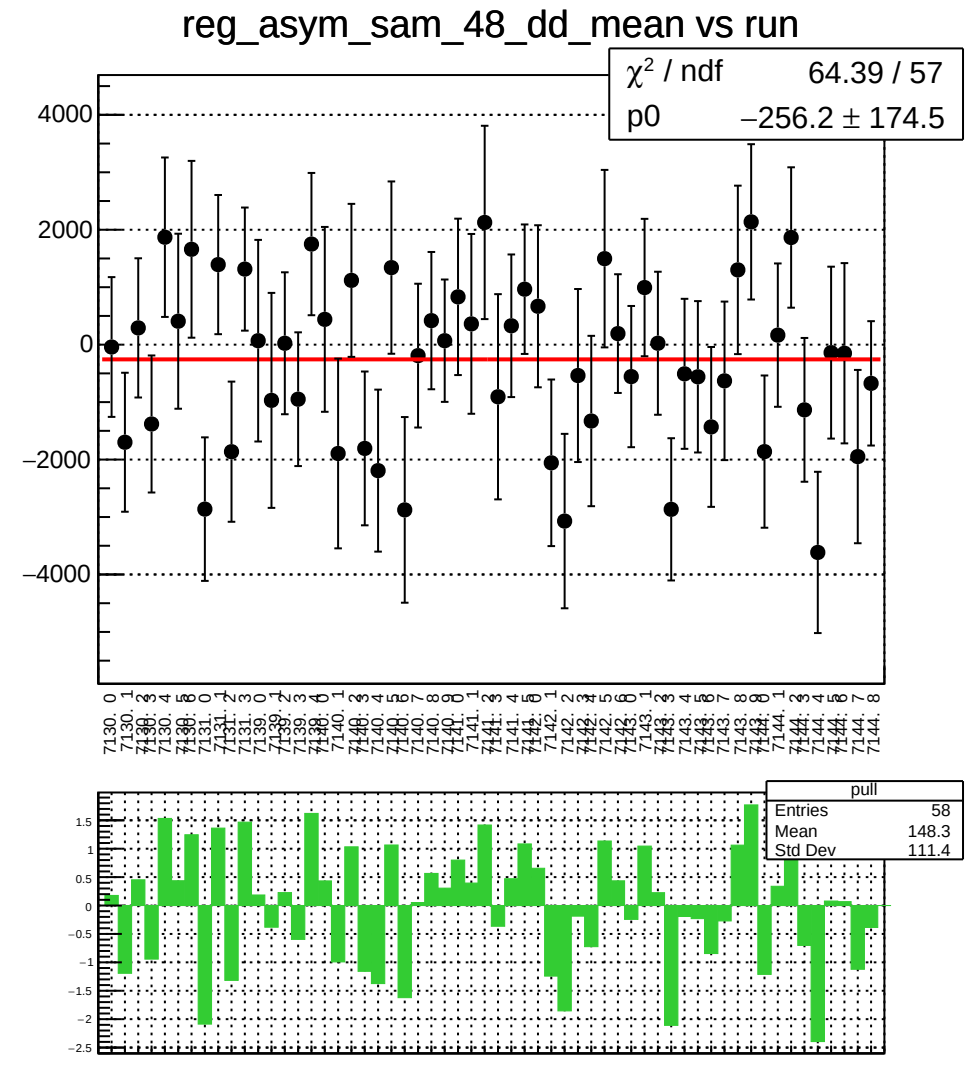

pull1D
Entries 58
Mean −0.007195
Std Dev 1.043

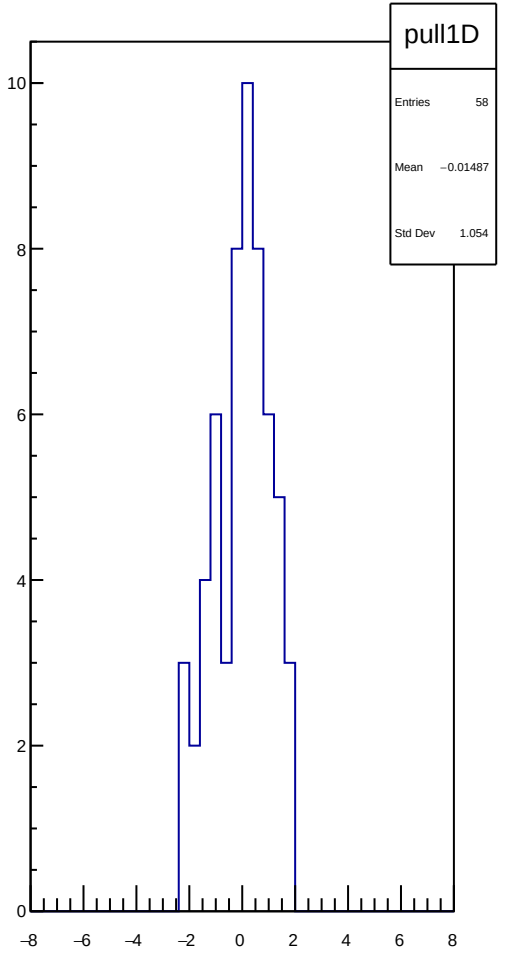

asym_sam_37_dd_correction_rms vs run
χ² / ndf 1.094e+04 / 57
p0 201.7 ± 0.1926
320
300
280
260
240
220
200
180
160

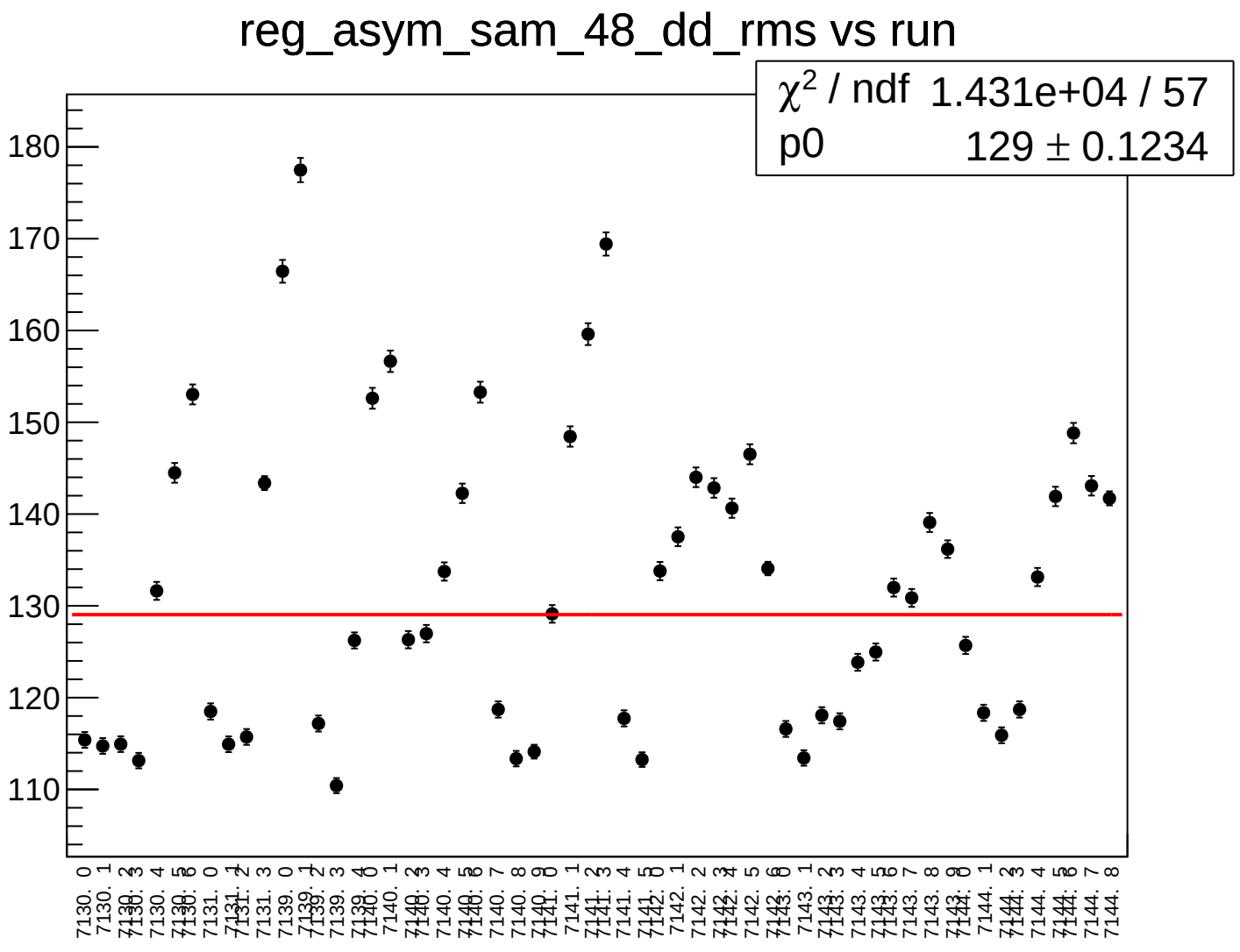

asym_sam_37_dd_mean vs run
χ² / ndf 60.24 / 57
p0 −433.8 ± 279
pull
Entries 58
Mean 1379
Std Dev 1349

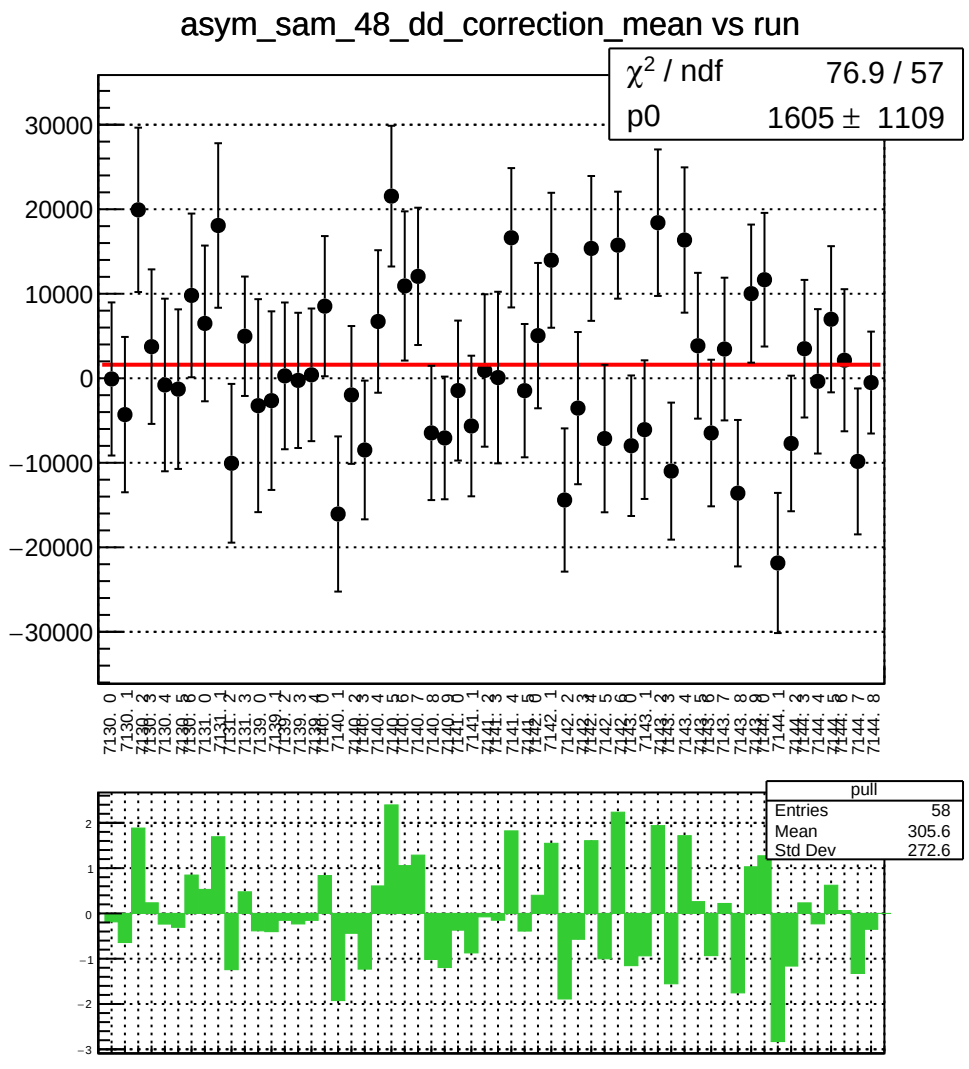

pull1D
Entries 58
Mean 0.002856
Std Dev 1.019

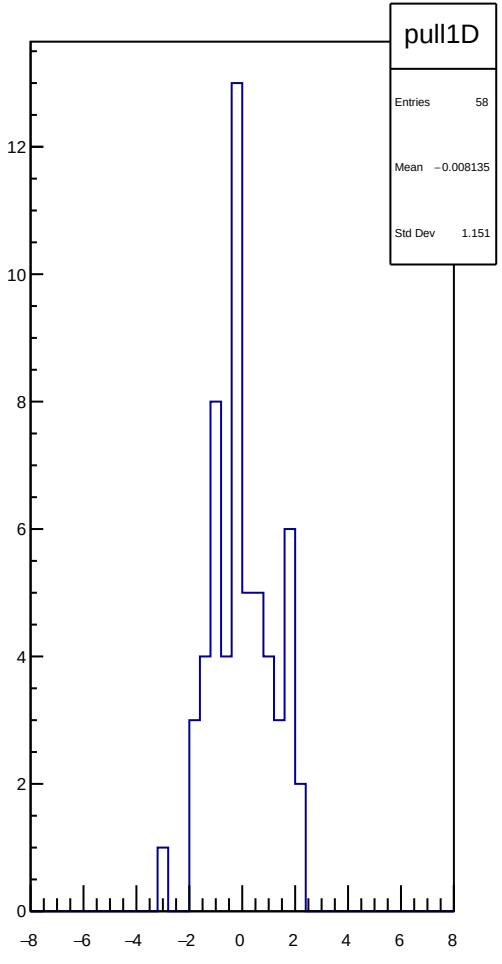

asym_sam_37_dd_rms vs run
χ^2 / ndf 1.058e+04 / 57
p0 206.6 ± 0.1973
340
320
300
280
260
240
220
200
180

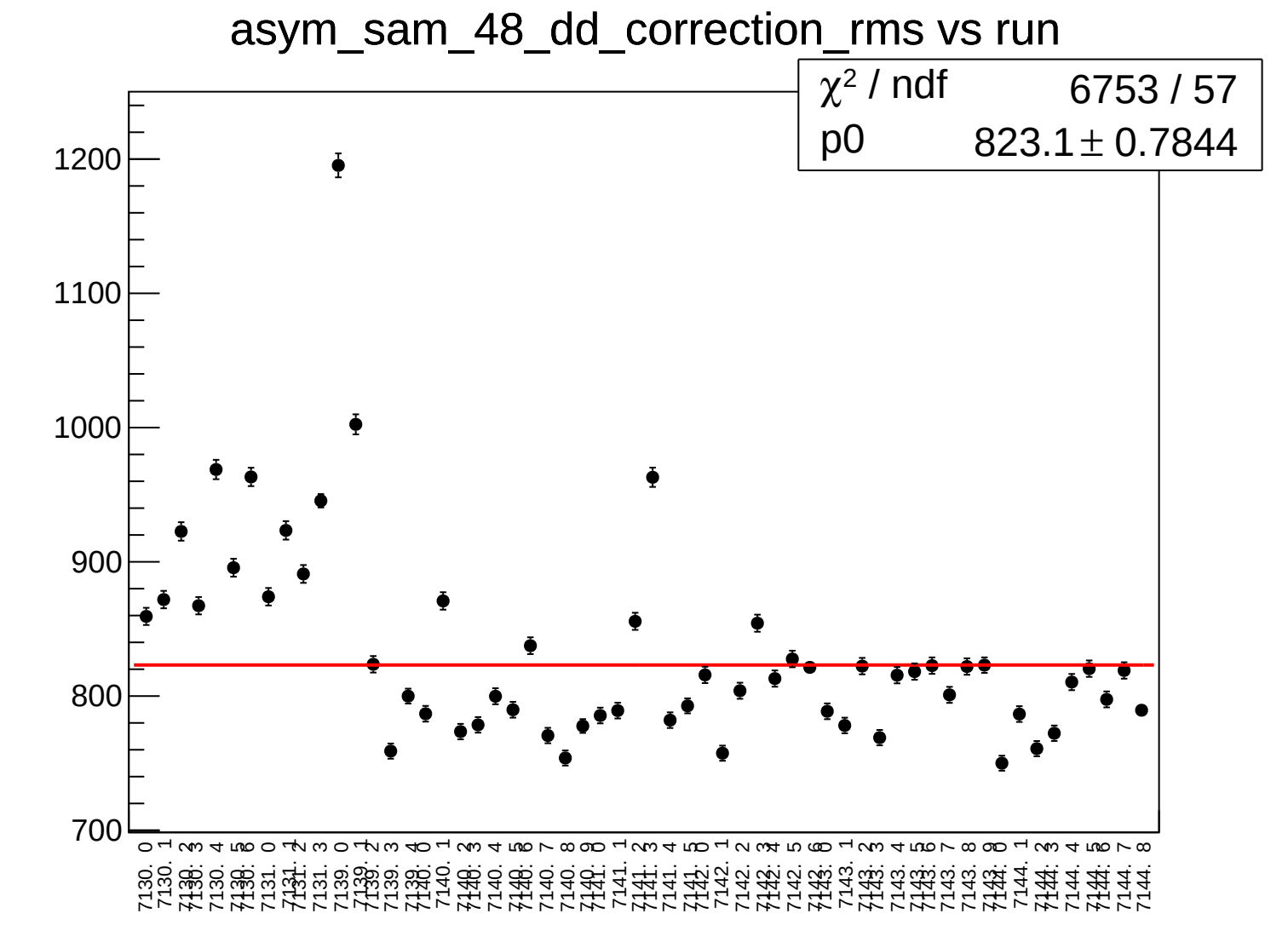

reg_asym_sam_48_dd_mean vs run
χ² / ndf 64.39 / 57
p0 −256.2 ± 174.5
4000
2000
0
−2000
−4000
pull
Entries 58
Mean 148.3
Std Dev 111.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

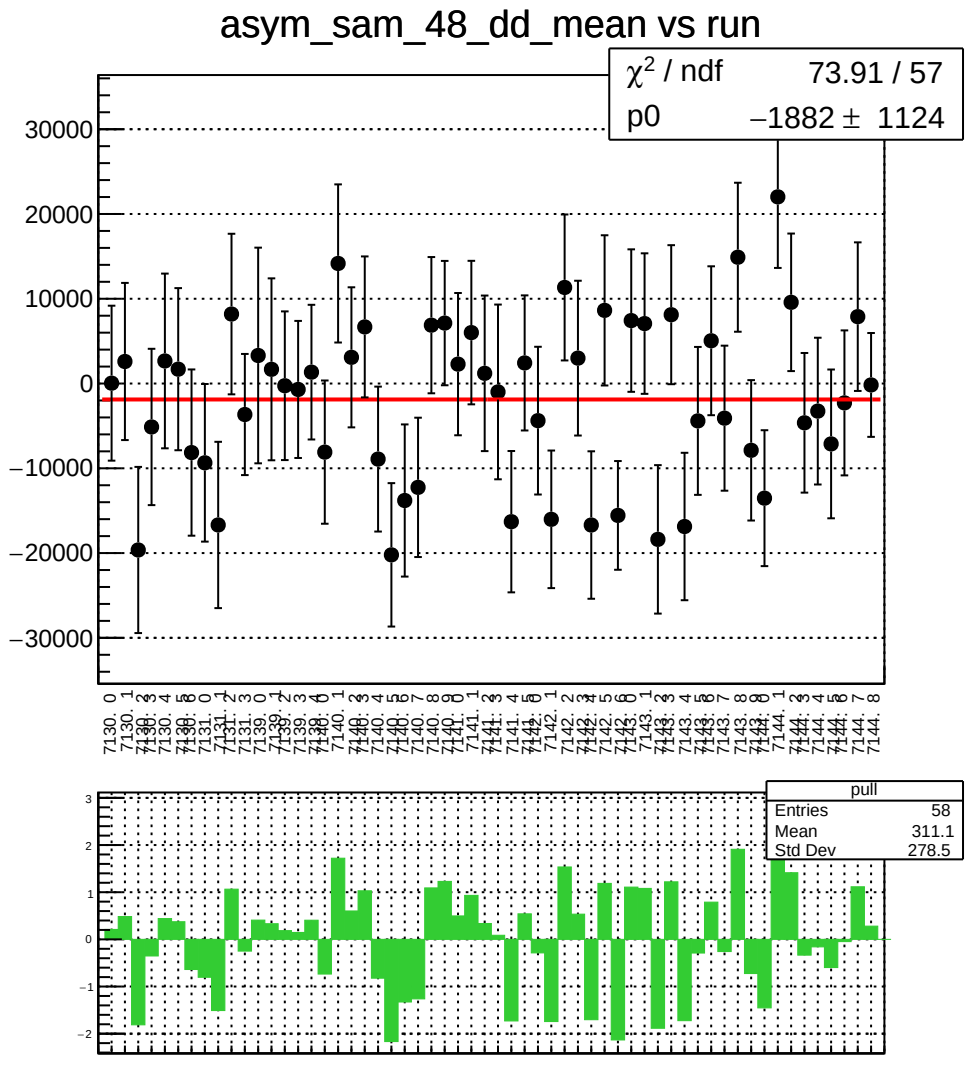

pull1D
Entries 58
Mean −0.01487
Std Dev 1.054
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

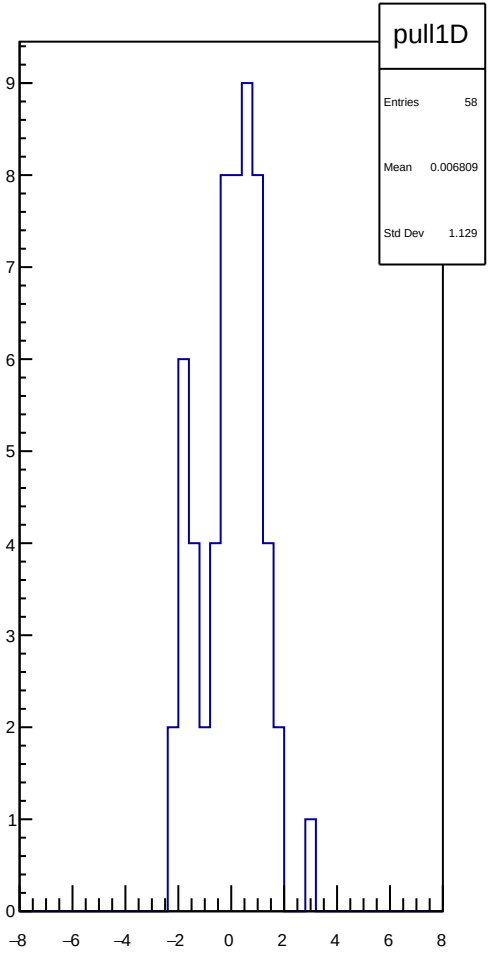

reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 1.431e+04 / 57
p0 129 ± 0.1234
180
170
160
150
140
130
120
110

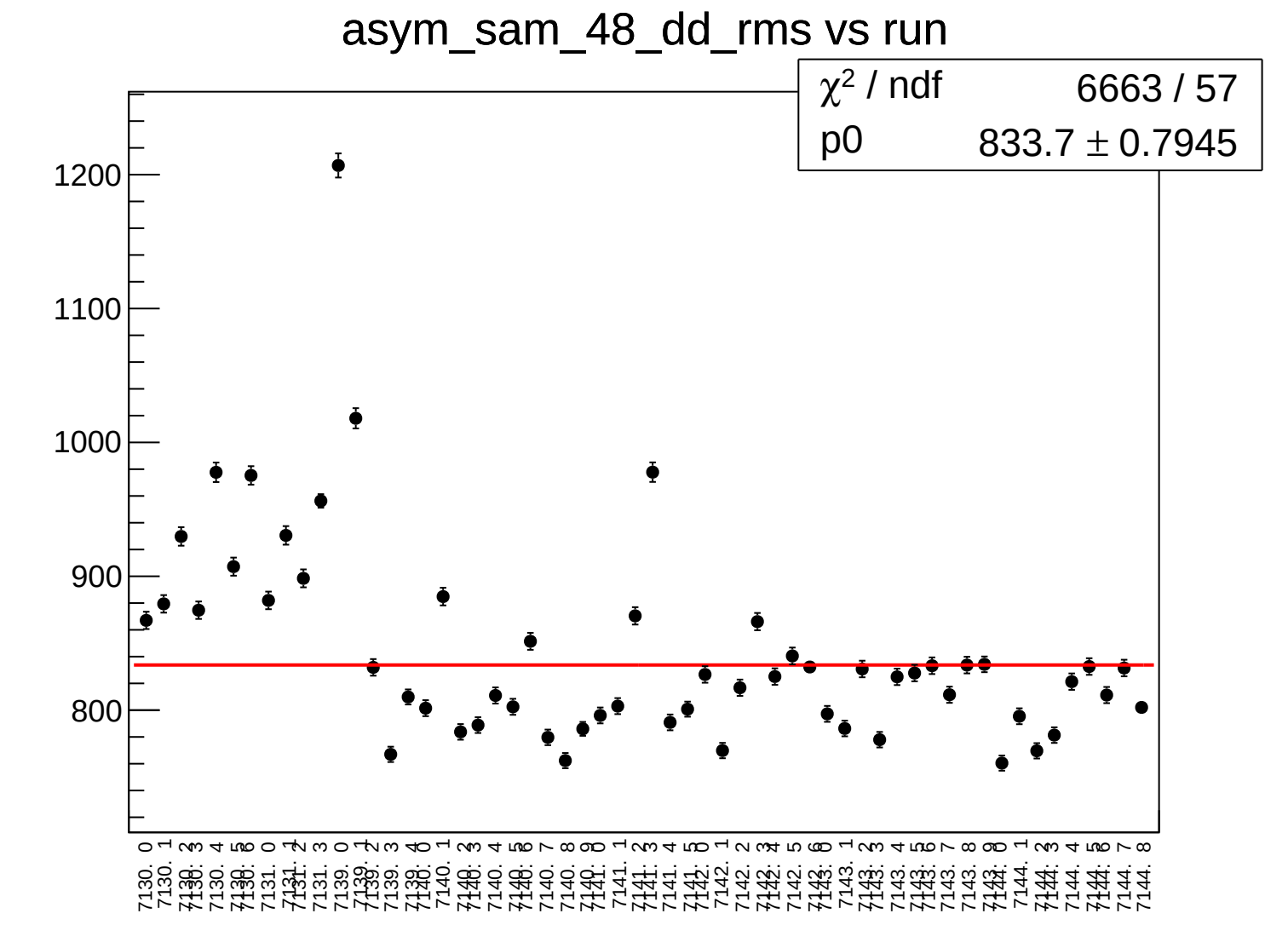

asym_sam_48_dd_correction_mean vs run
χ² / ndf 76.9 / 57
p0 1605 ± 1109
pull
Entries 58
Mean 305.6
Std Dev 272.6

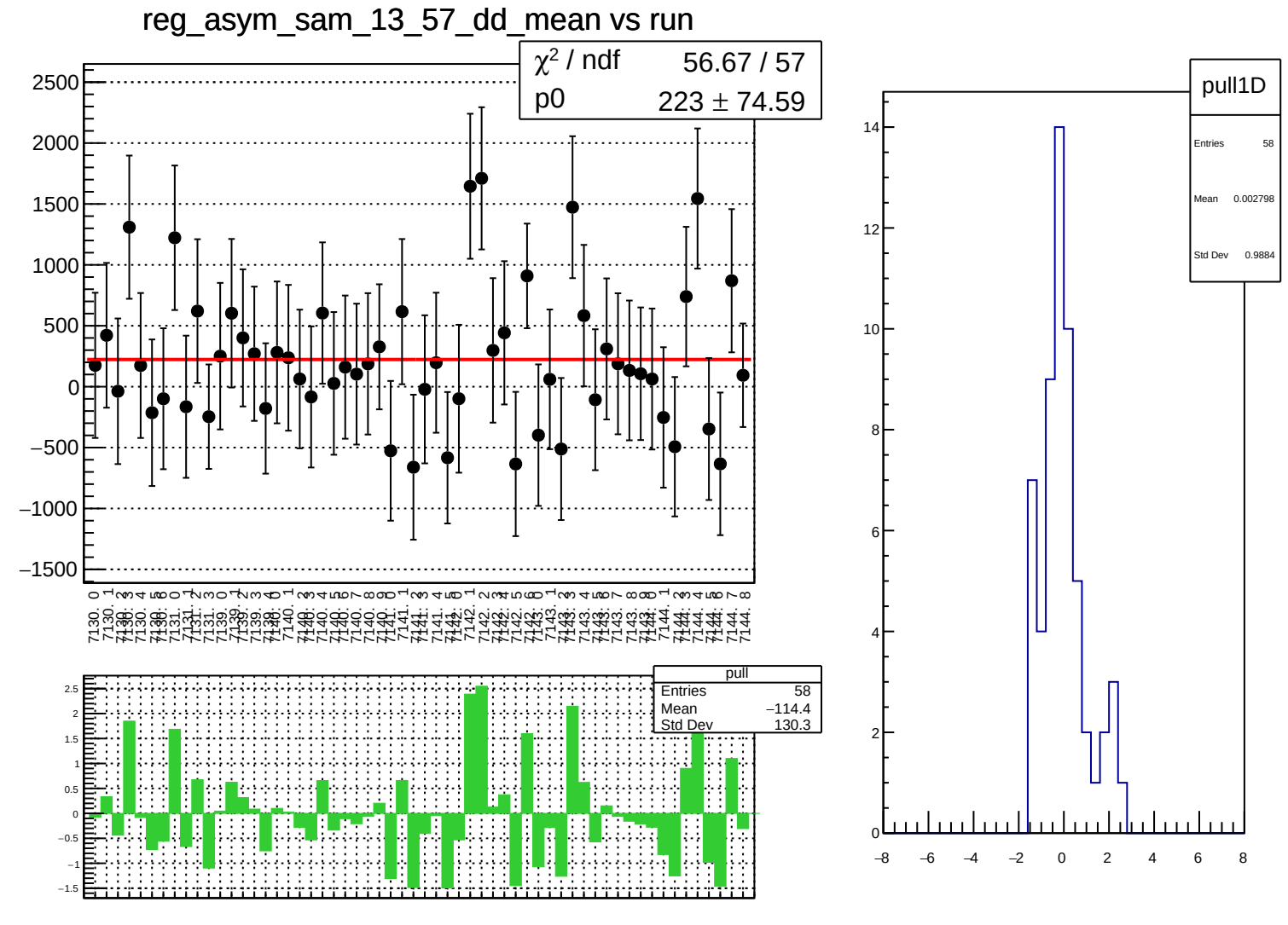

pull1D
Entries 58
Mean −0.008135
Std Dev 1.151

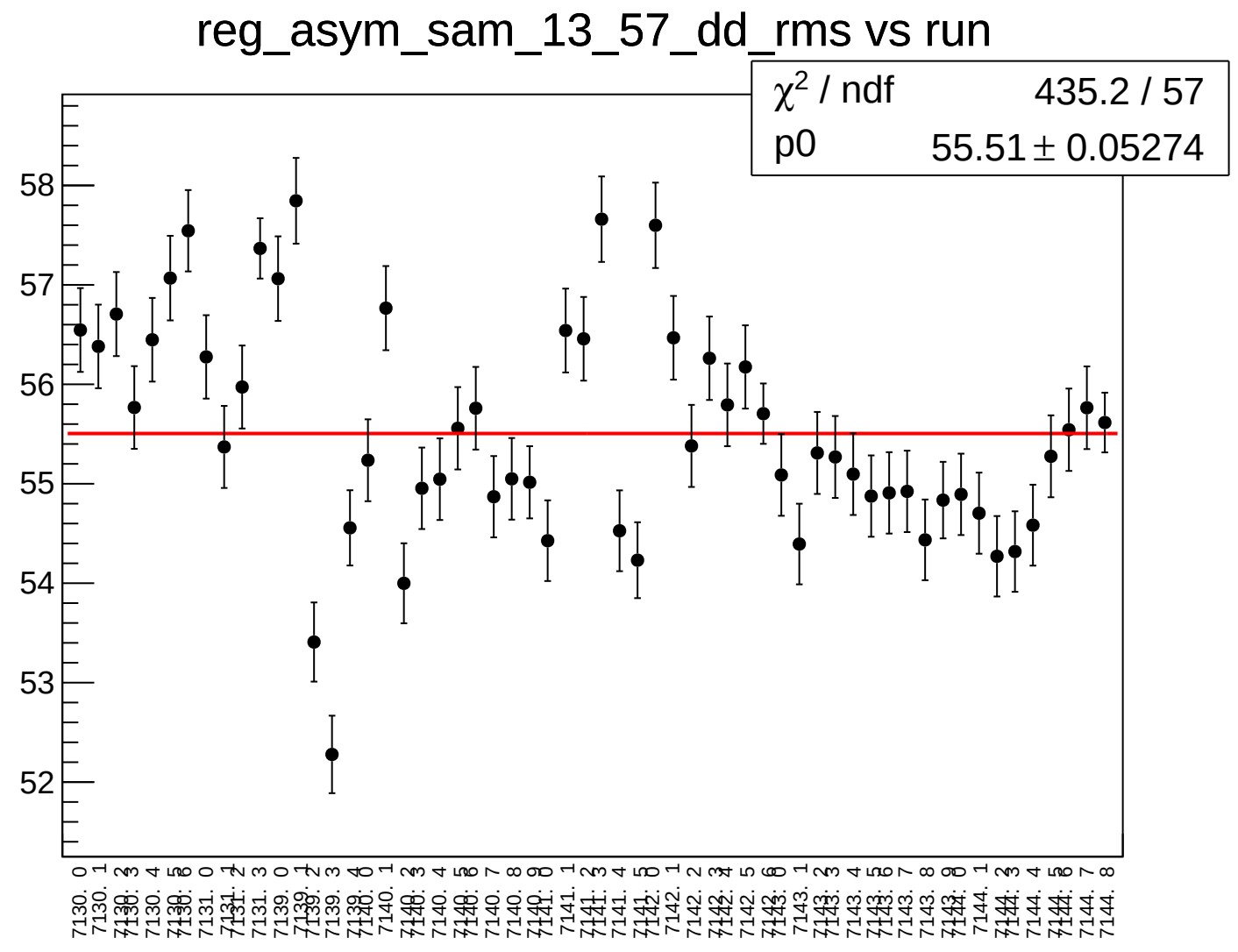

asym_sam_48_dd_correction_rms vs run
χ² / ndf 6753 / 57
p0 823.1 ± 0.7844
1200
1100
1000
900
800
700

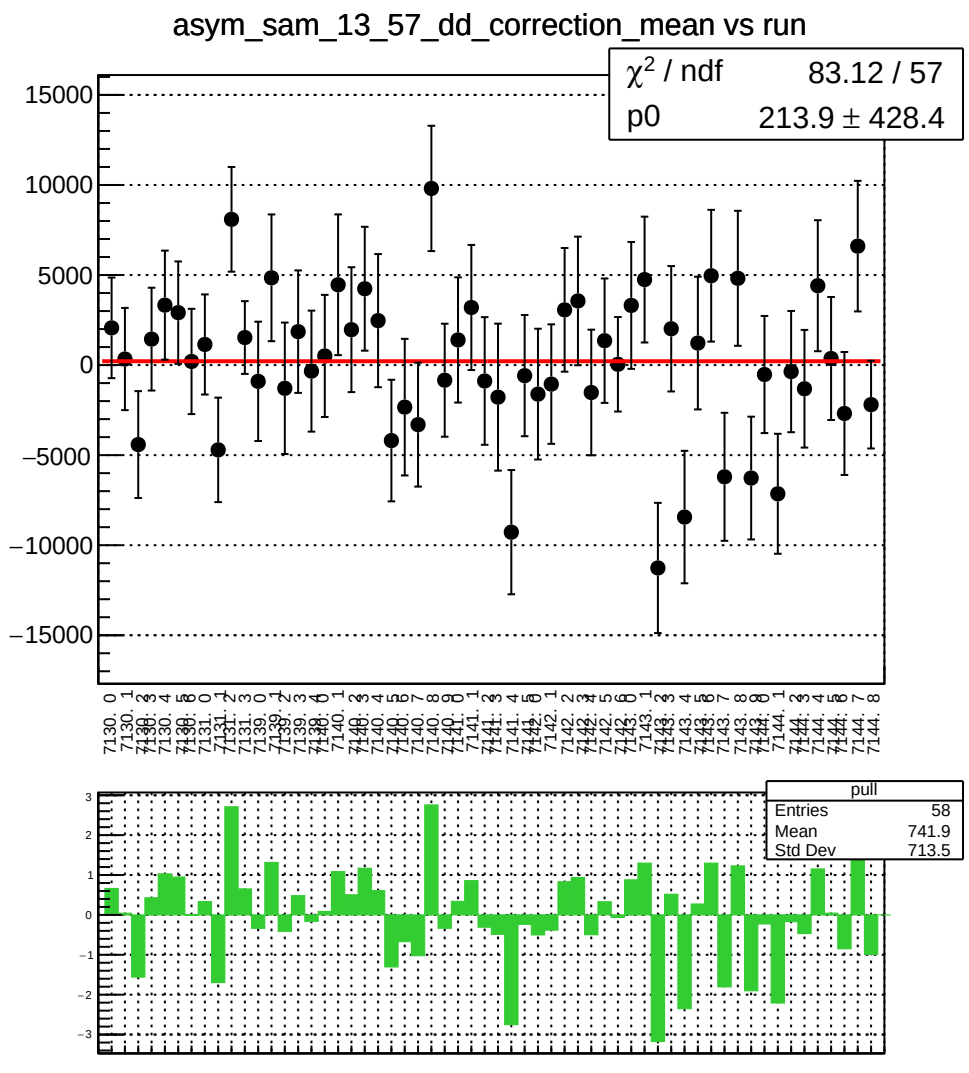

asym_sam_48_dd_mean vs run
χ² / ndf 73.91 / 57
p0 −1882 ± 1124
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 58
Mean 311.1
Std Dev 278.5
3
2
1
0
−1
−2

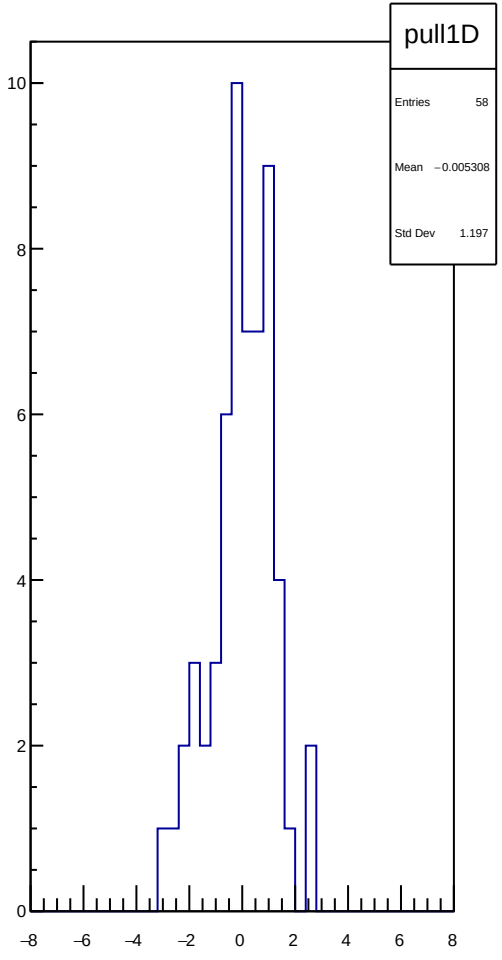

pull1D
Entries 58
Mean 0.006809
Std Dev 1.129
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

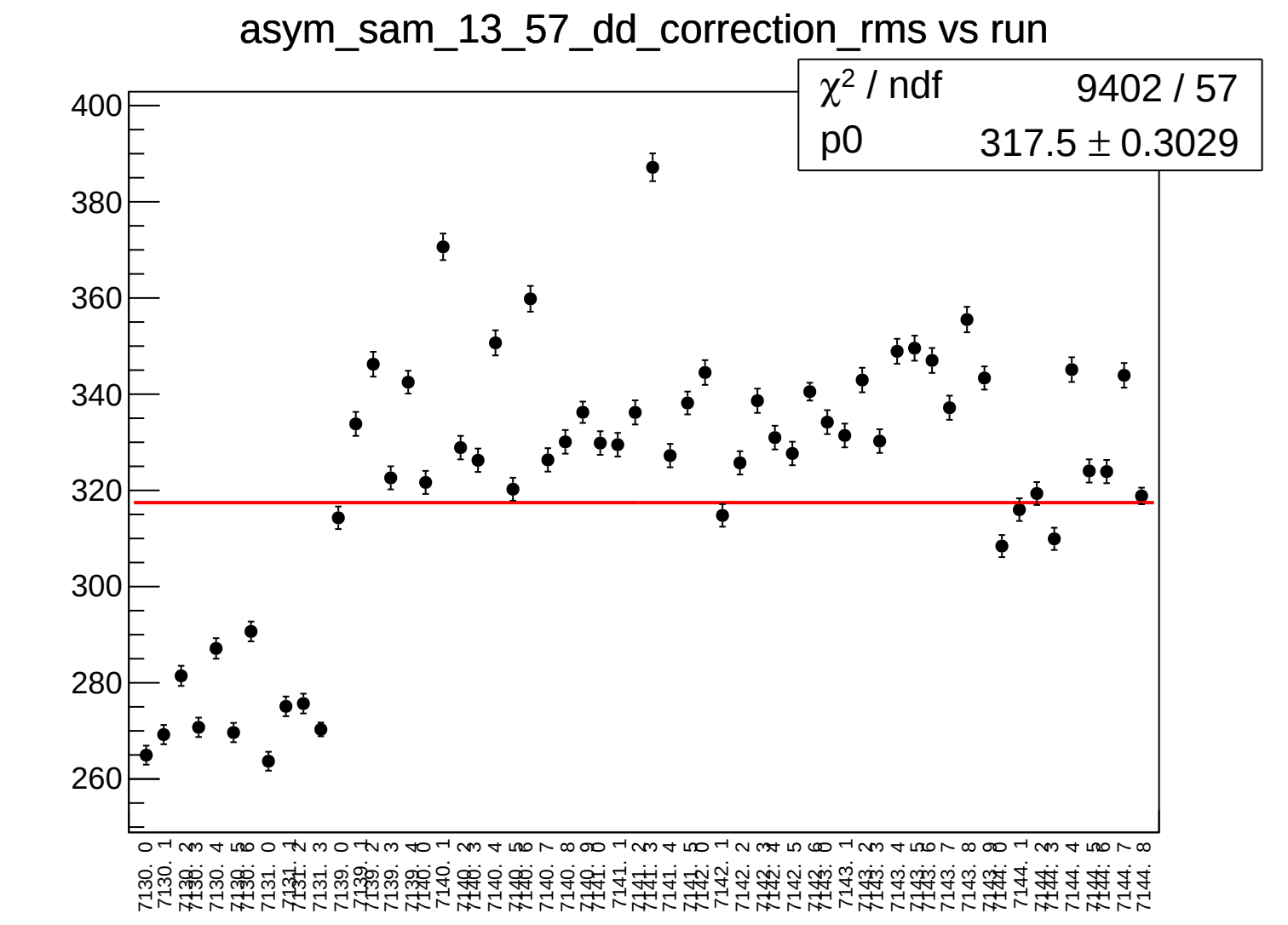

asym_sam_48_dd_rms vs run
χ² / ndf 6663 / 57
p0 833.7 ± 0.7945
1200
1100
1000
900
800

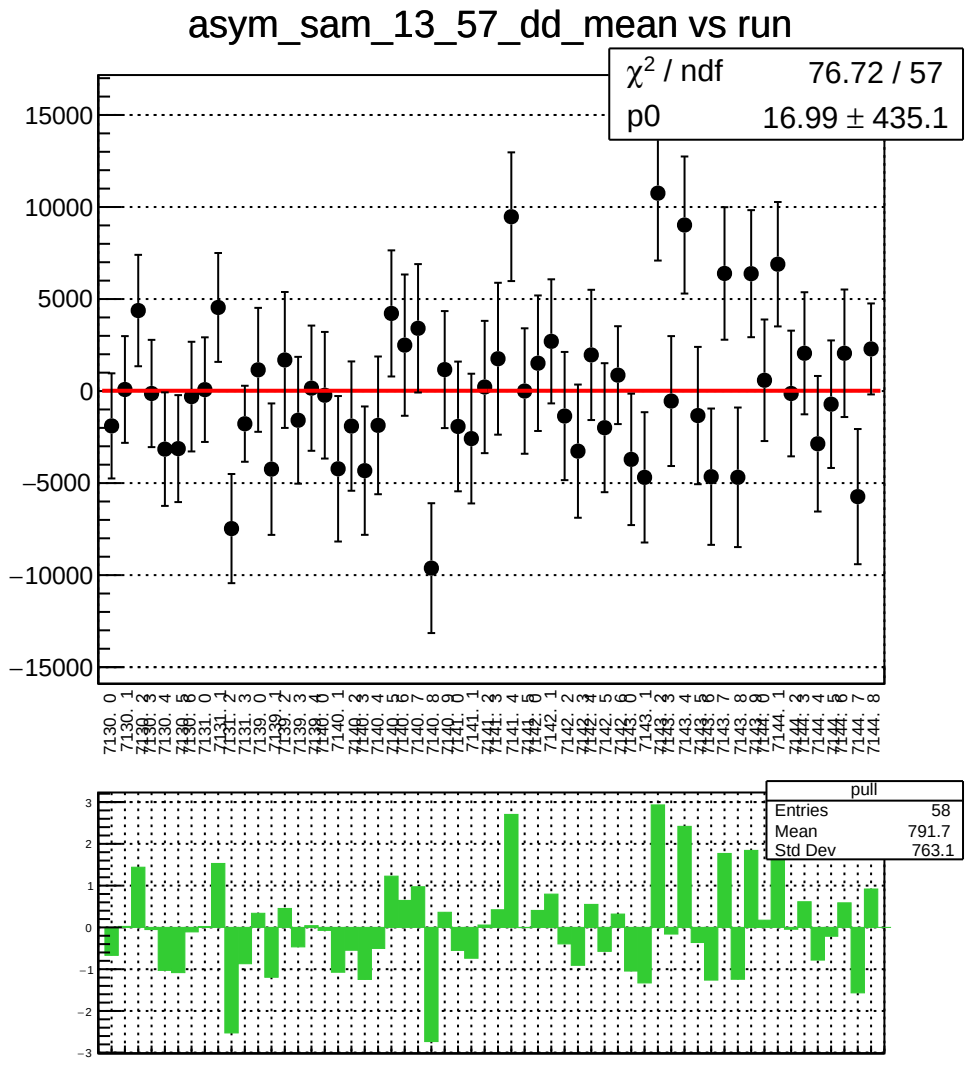

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 56.67 / 57
p0 223 ± 74.59
pull
Entries 58
Mean −114.4
Std Dev 130.3
pull1D
Entries 58
Mean 0.002798
Std Dev 0.9884

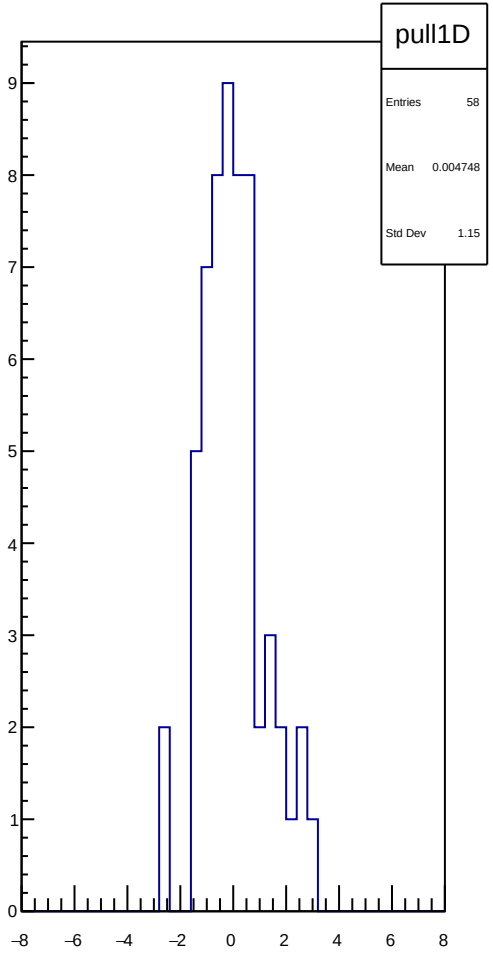

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 435.2 / 57
p0 55.51 ± 0.05274
58
57
56
55
54
53
52
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

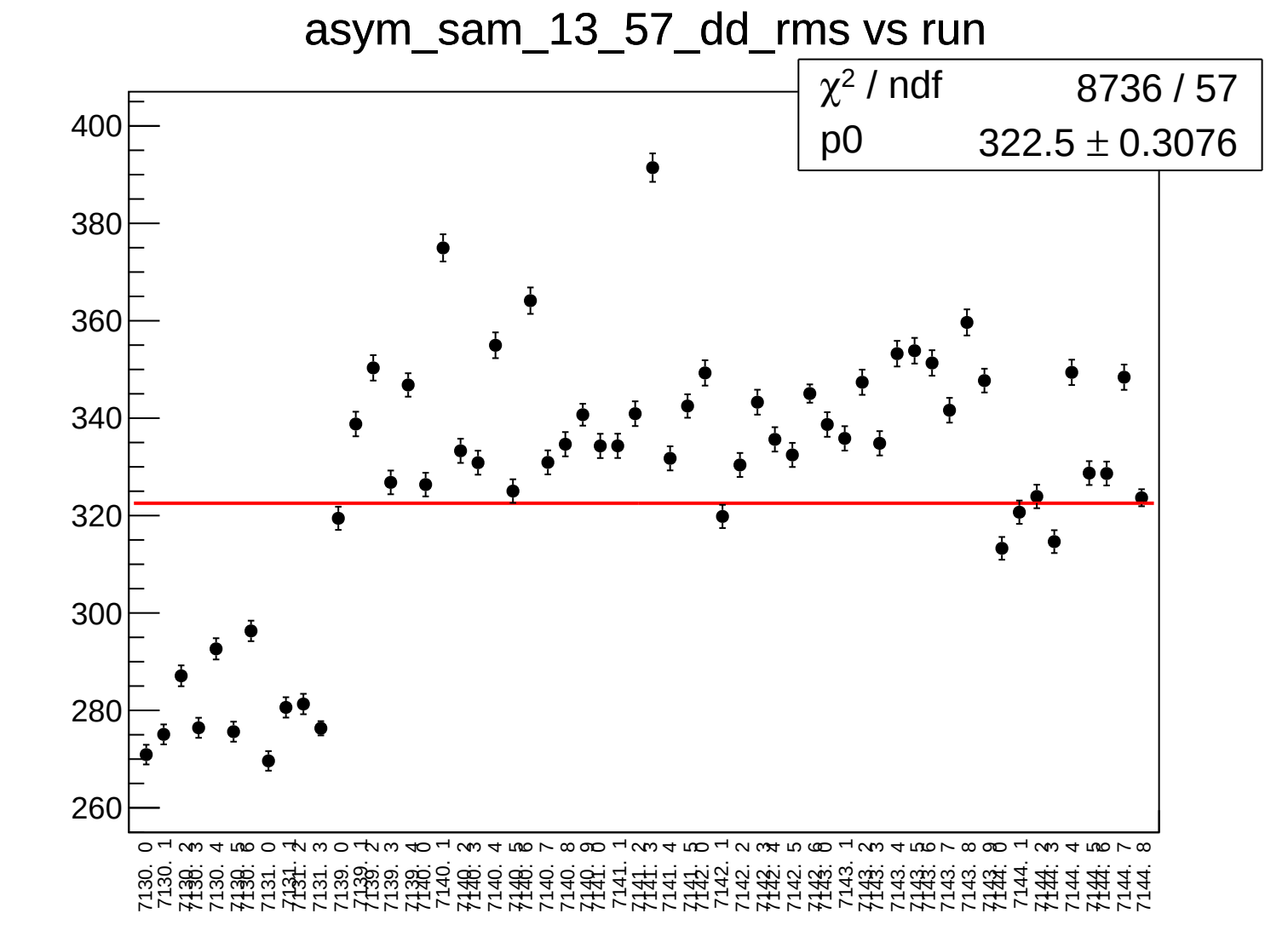

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 83.12 / 57
p0 213.9 ± 428.4
pull
Entries 58
Mean 741.9
Std Dev 713.5

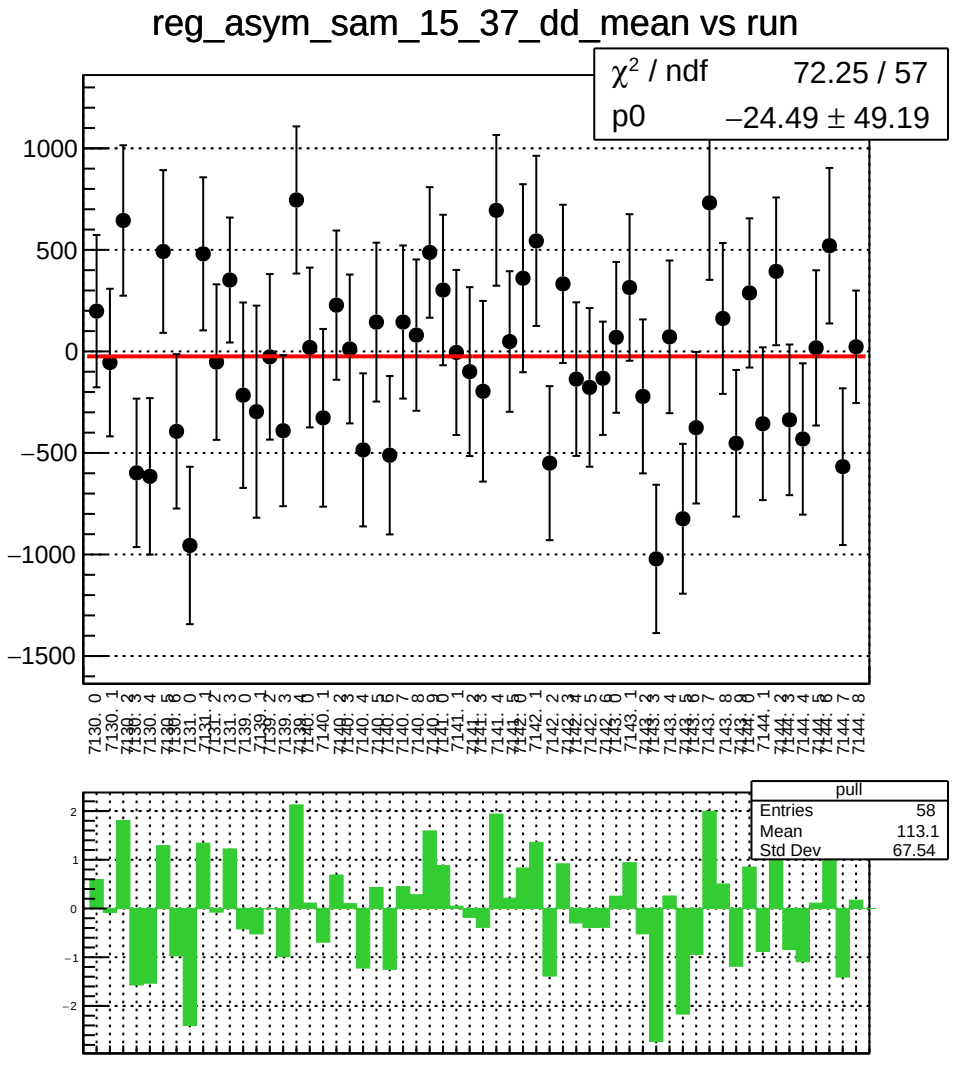

pull1D
Entries 58
Mean −0.005308
Std Dev 1.197

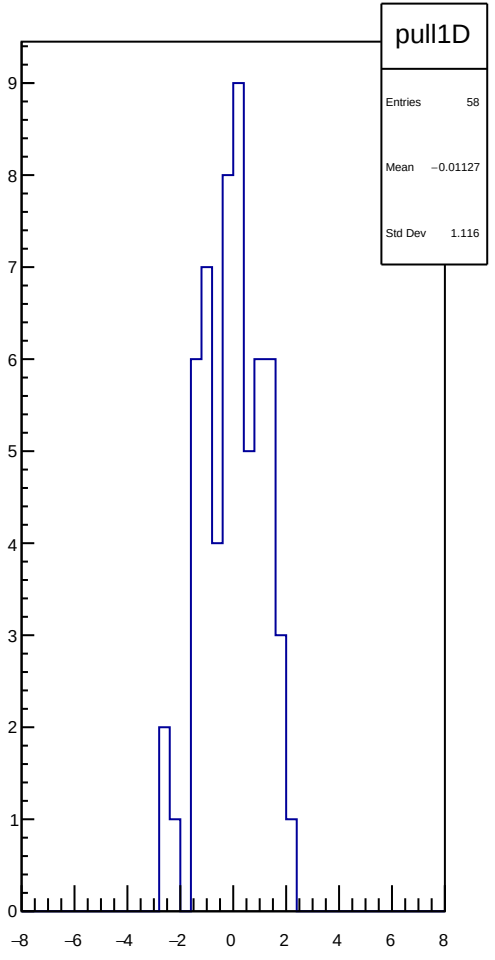

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 9402 / 57
p0 317.5 ± 0.3029
400
380
360
340
320
300
280
260

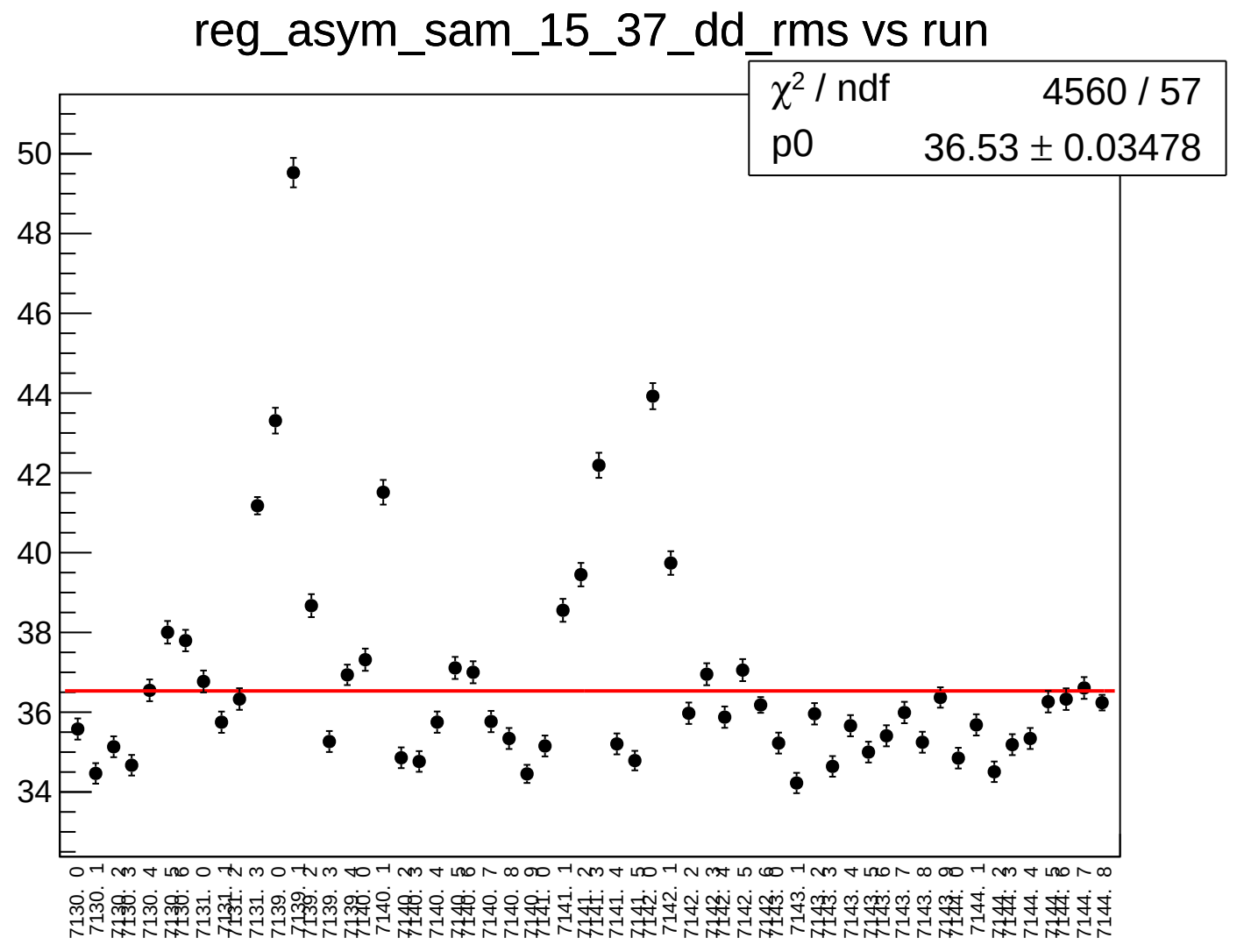

asym_sam_13_57_dd_mean vs run
χ² / ndf 76.72 / 57
p0 16.99 ± 435.1
pull
Entries 58
Mean 791.7
Std Dev 763.1

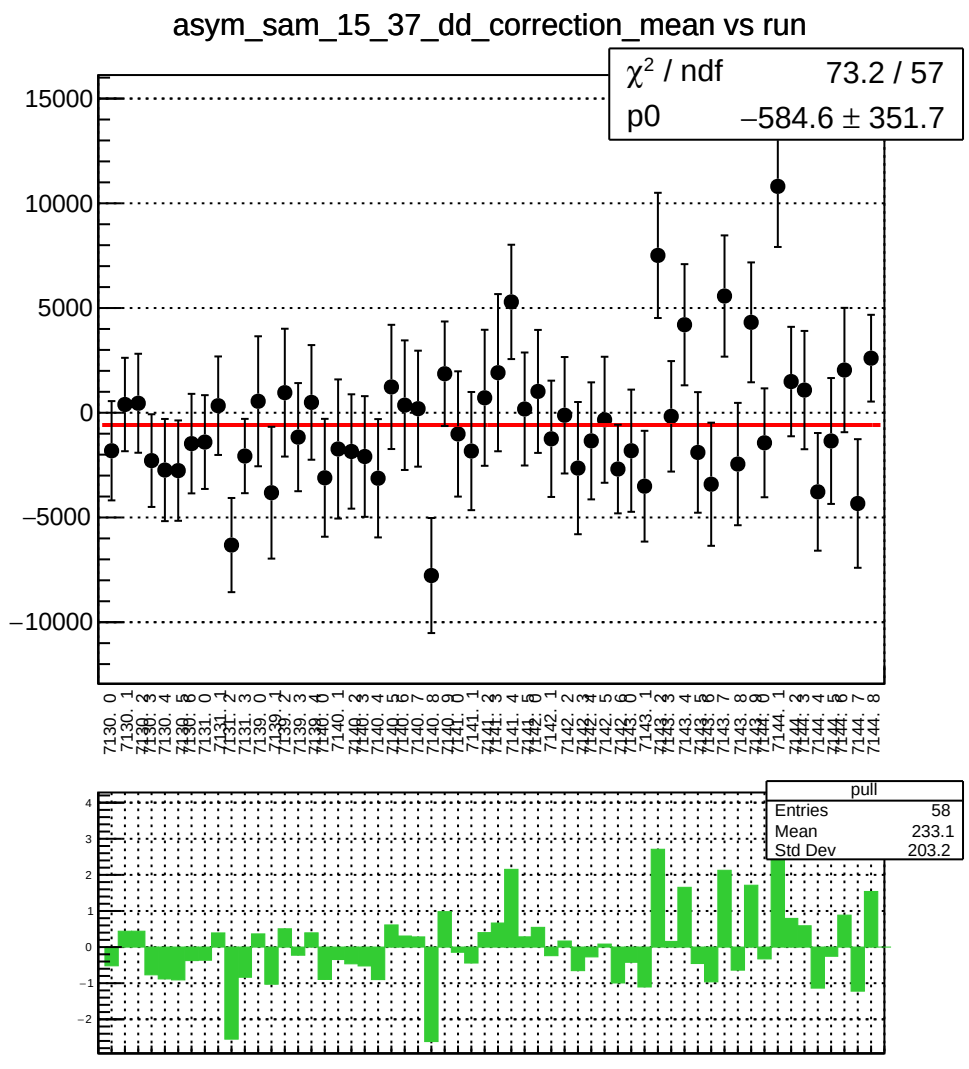

pull1D
Entries 58
Mean 0.004748
Std Dev 1.15

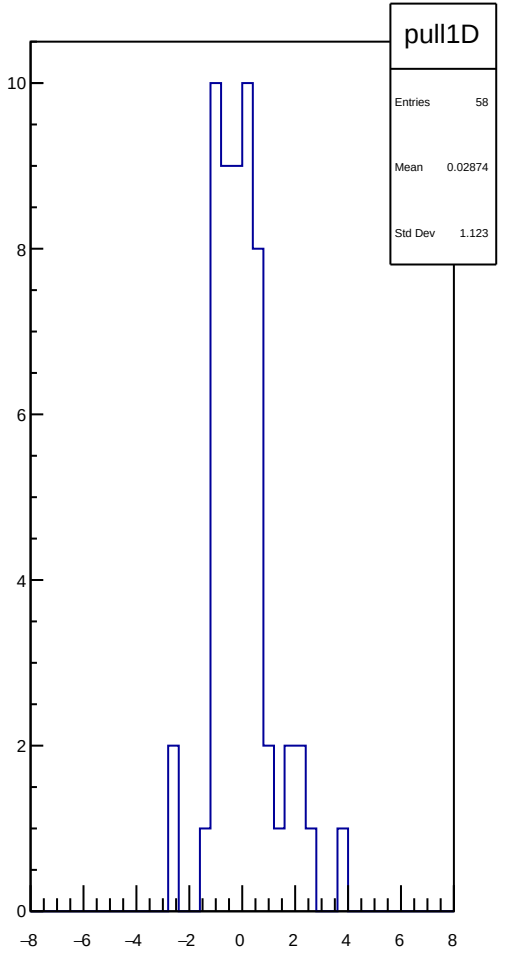

asym_sam_13_57_dd_rms vs run
χ² / ndf 8736 / 57
p0 322.5 ± 0.3076
400
380
360
340
320
300
280
260

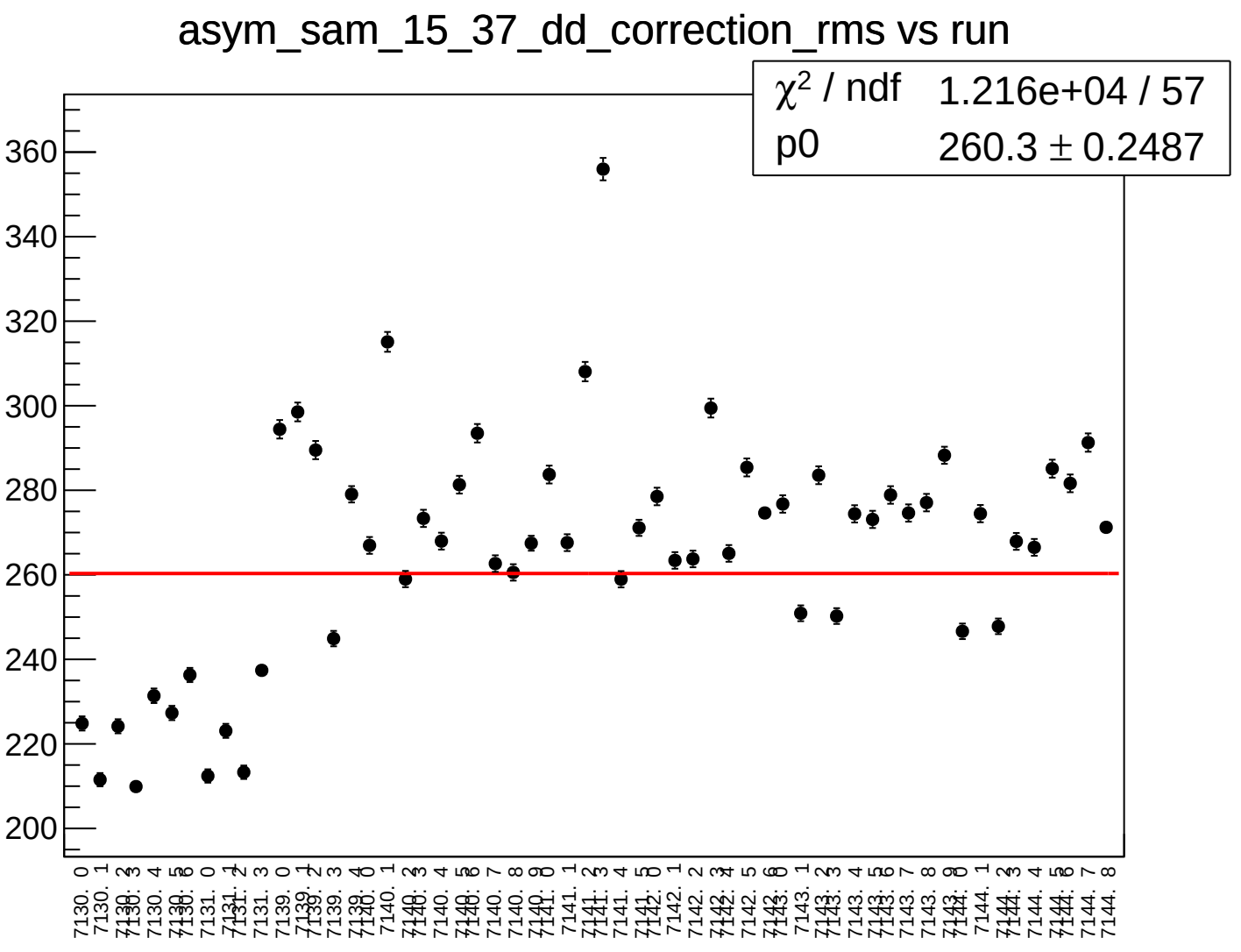

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 72.25 / 57
p0 −24.49 ± 49.19
pull
Entries 58
Mean 113.1
Std Dev 67.54

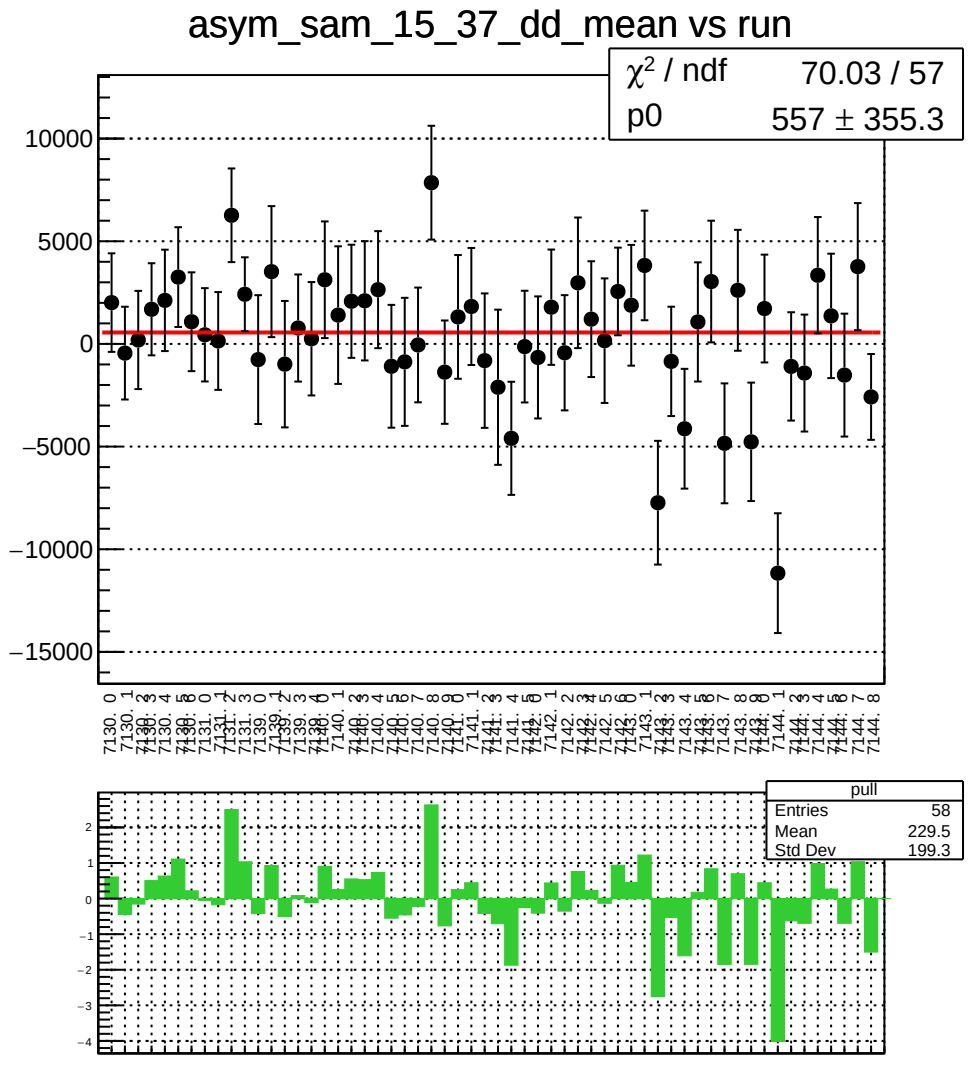

pull1D
Entries 58
Mean −0.01127
Std Dev 1.116

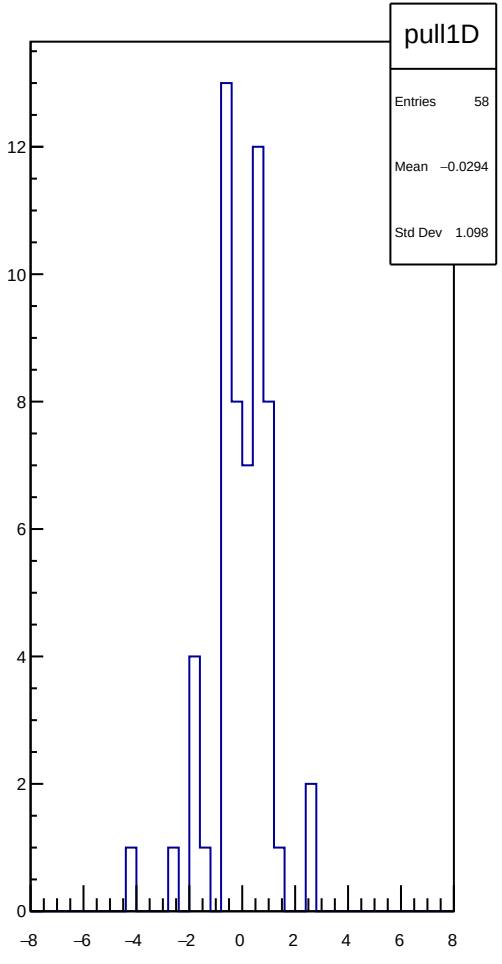

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 4560 / 57
p0 36.53 ± 0.03478
50
48
46
44
42
40
38
36
34

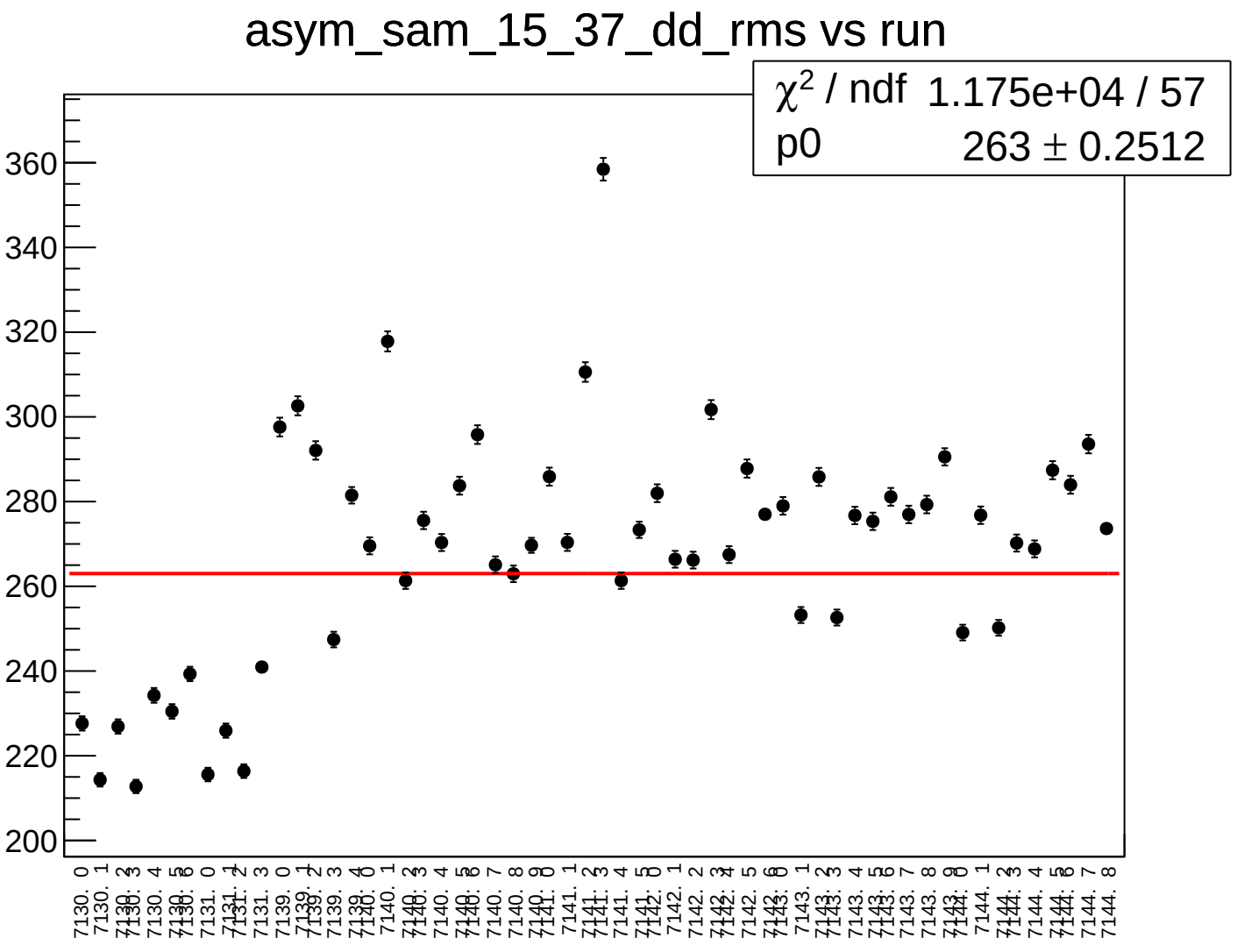

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 73.2 / 57
p0 −584.6 ± 351.7
15000
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 233.1
Std Dev 203.2
4
3
2
1
0
−1
−2

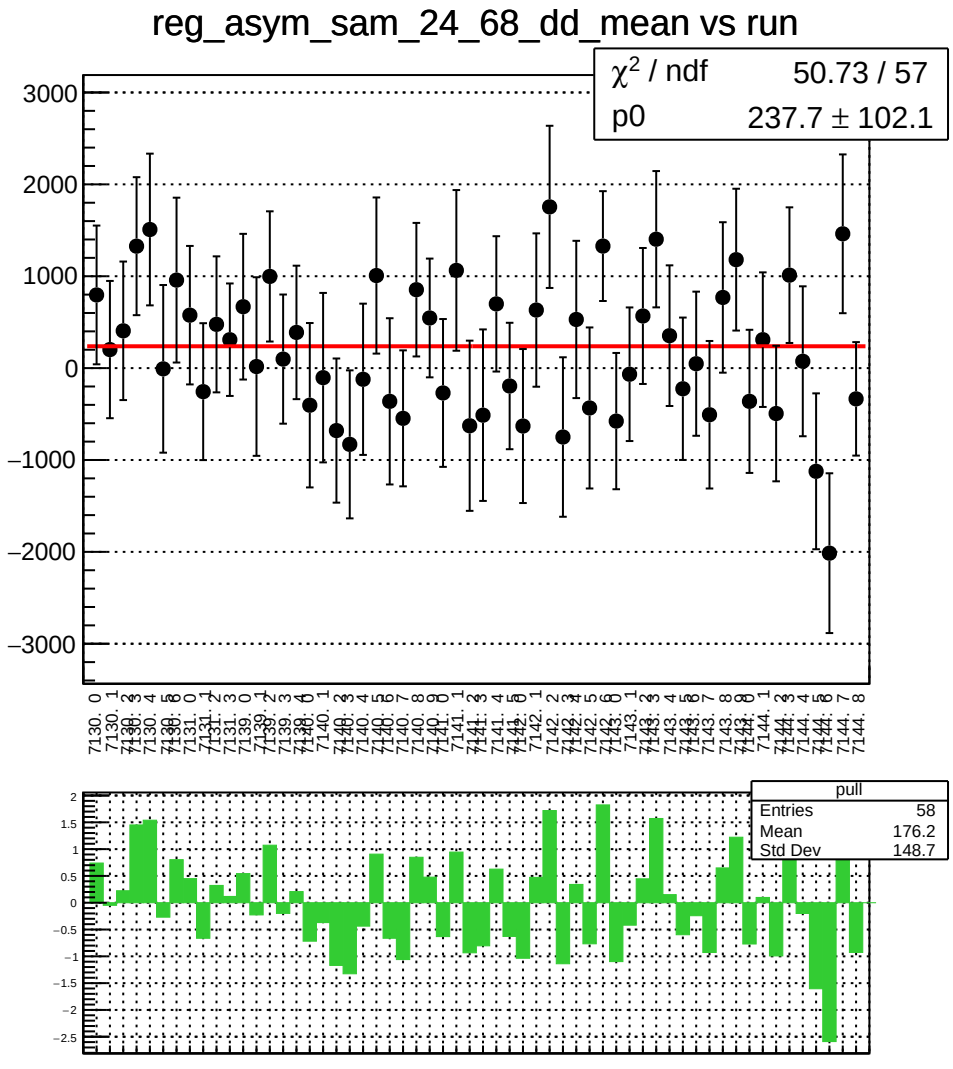

pull1D
Entries 58
Mean 0.02874
Std Dev 1.123
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

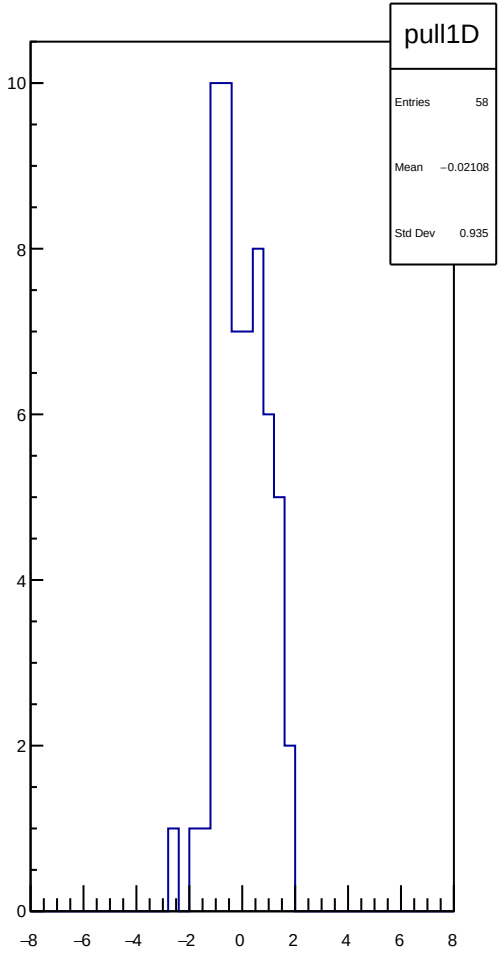

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 1.216e+04 / 57
p0 260.3 ± 0.2487
360
340
320
300
280
260
240
220
200

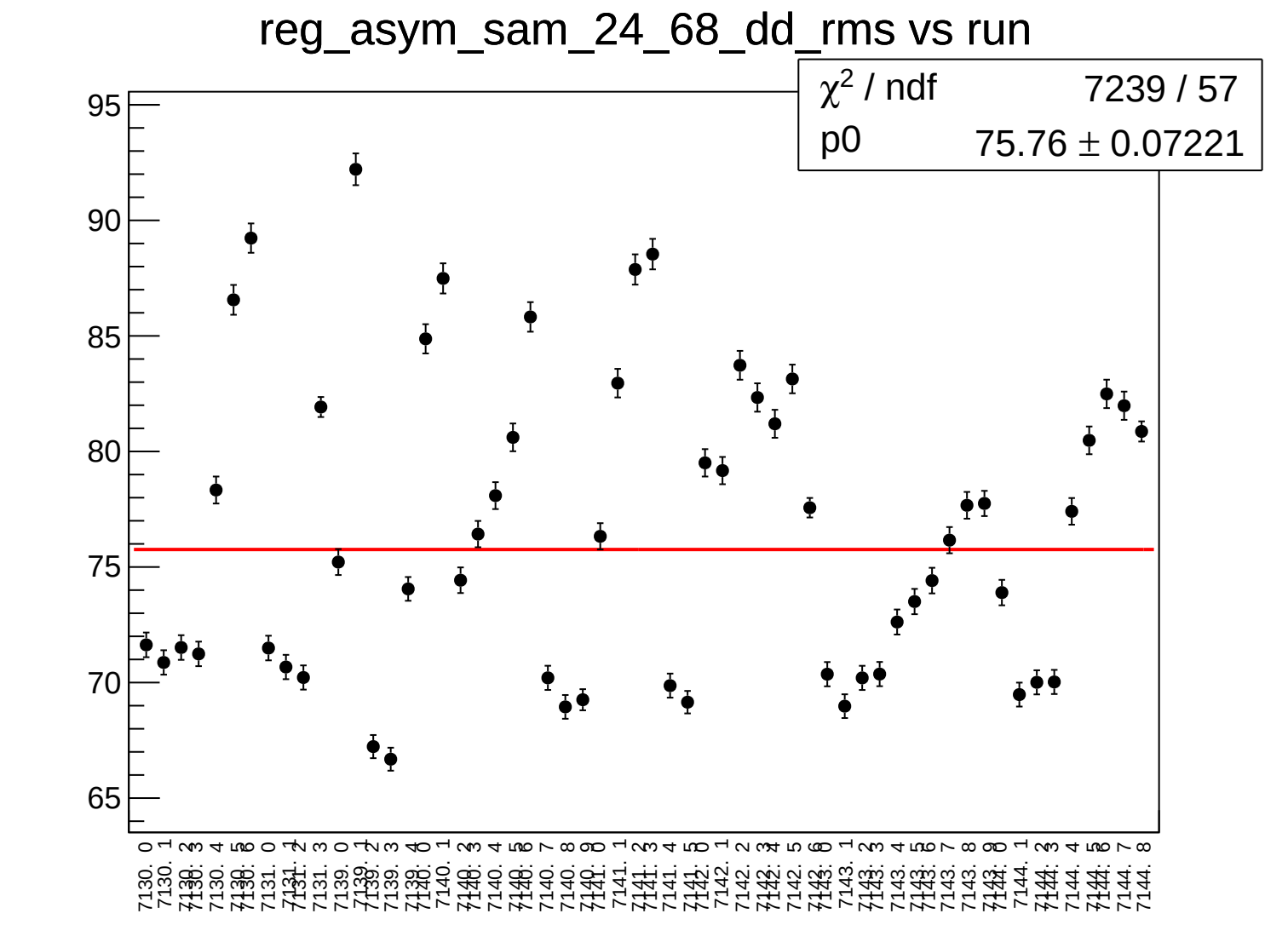

asym_sam_15_37_dd_mean vs run
χ² / ndf 70.03 / 57
p0 557 ± 355.3
pull
Entries 58
Mean 229.5
Std Dev 199.3

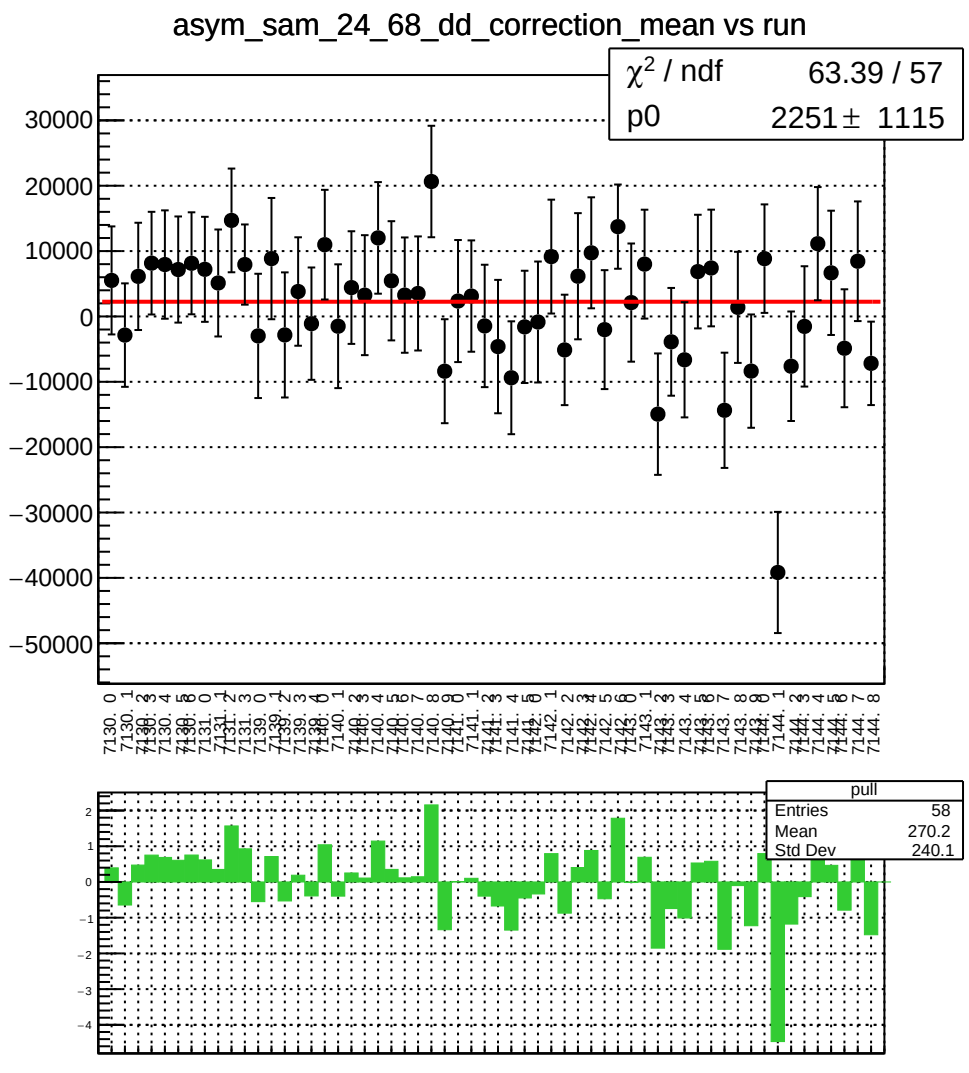

pull1D
Entries 58
Mean −0.0294
Std Dev 1.098

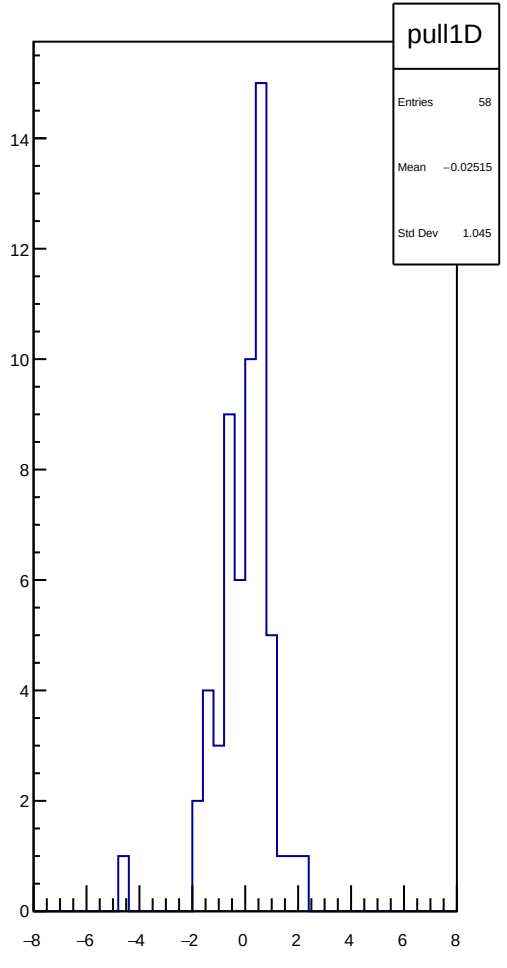

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.175e+04 / 57
p0 263 ± 0.2512
360
340
320
300
280
260
240
220
200

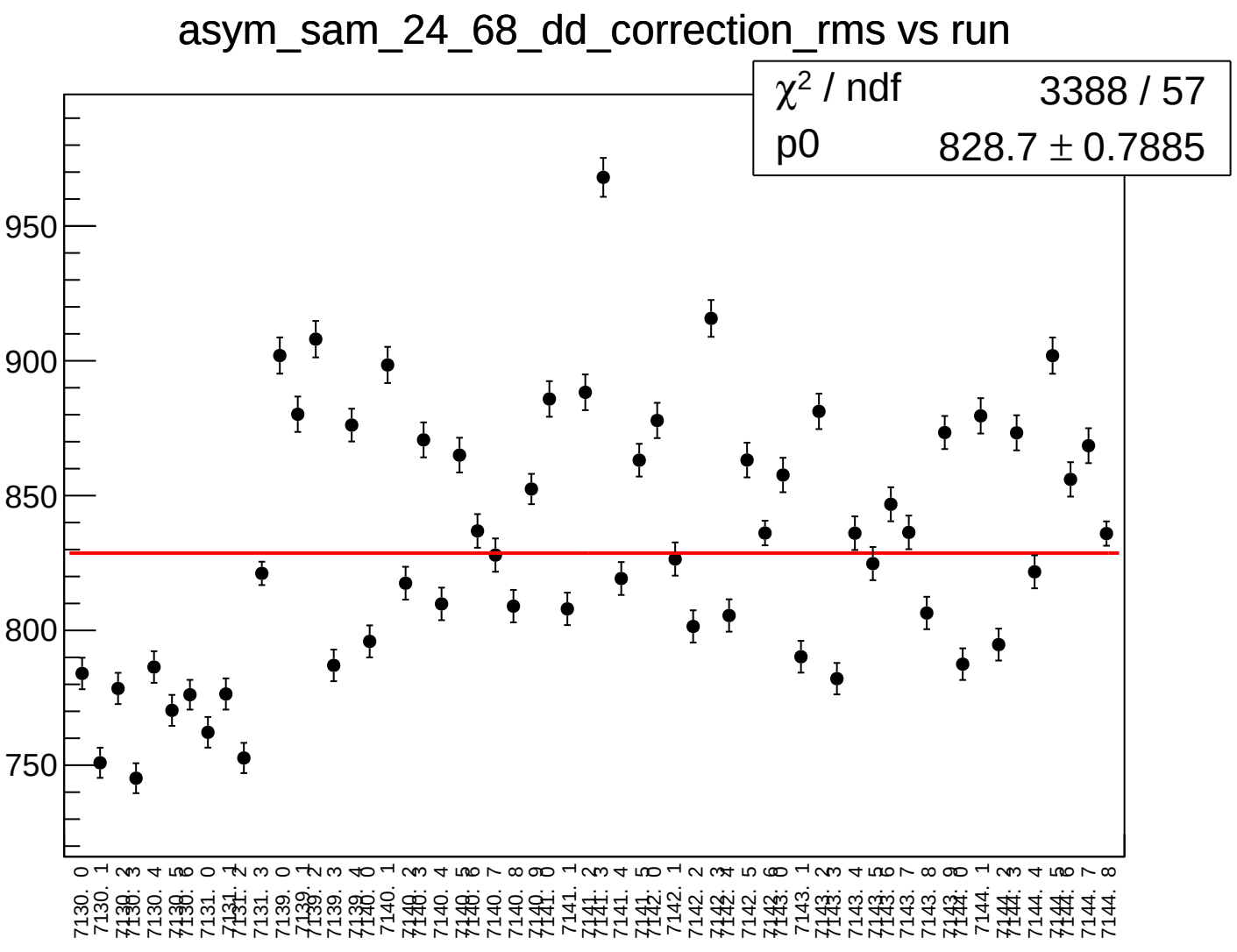

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 50.73 / 57
p0 237.7 ± 102.1
pull
Entries 58
Mean 176.2
Std Dev 148.7

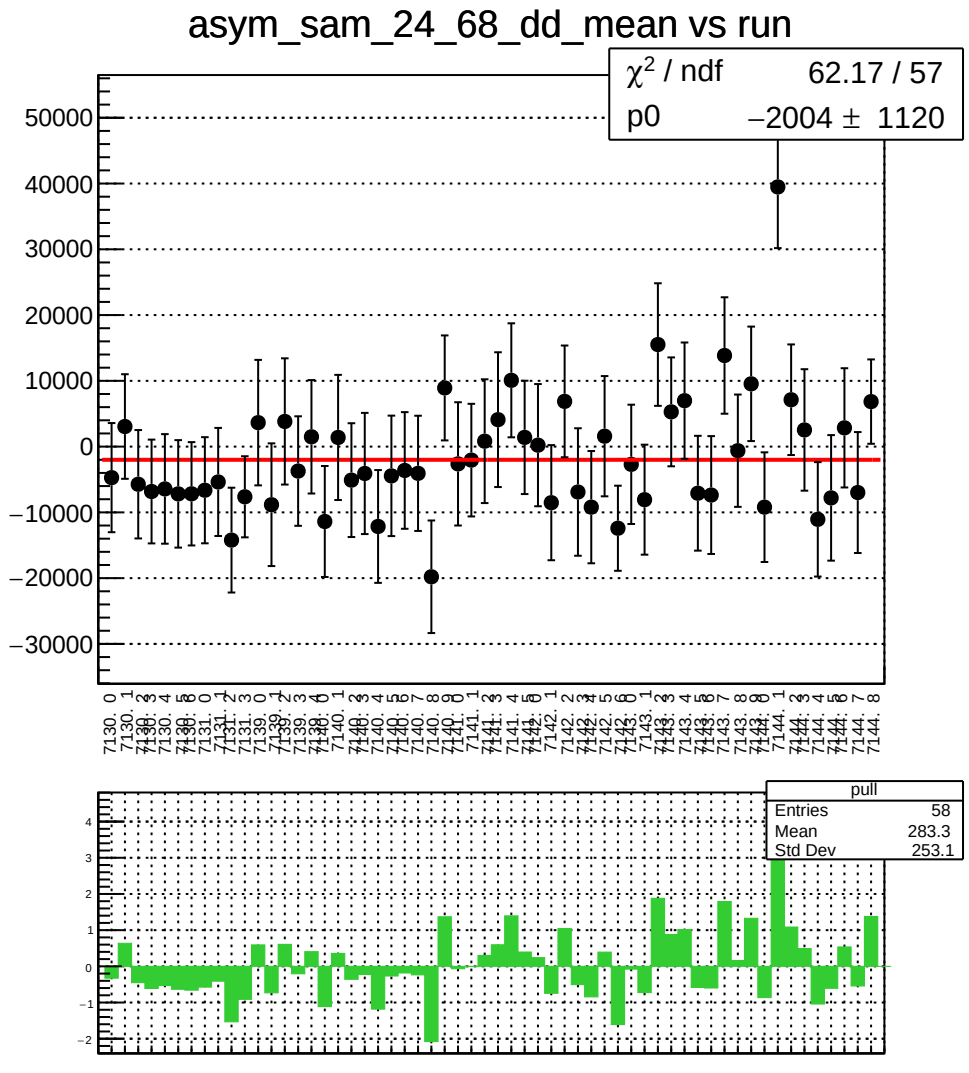

pull1D
Entries 58
Mean −0.02108
Std Dev 0.935

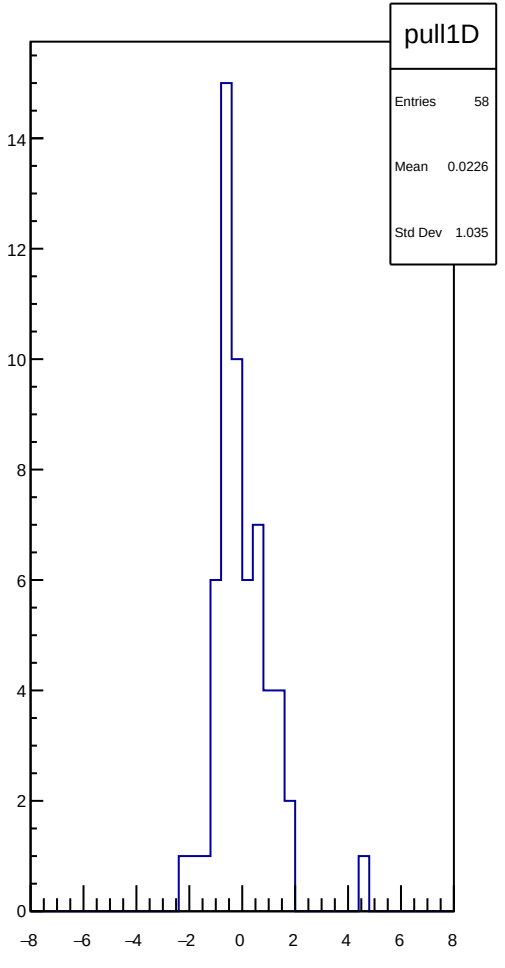

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 7239 / 57
p0 75.76 ± 0.07221
95
90
85
80
75
70
65
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

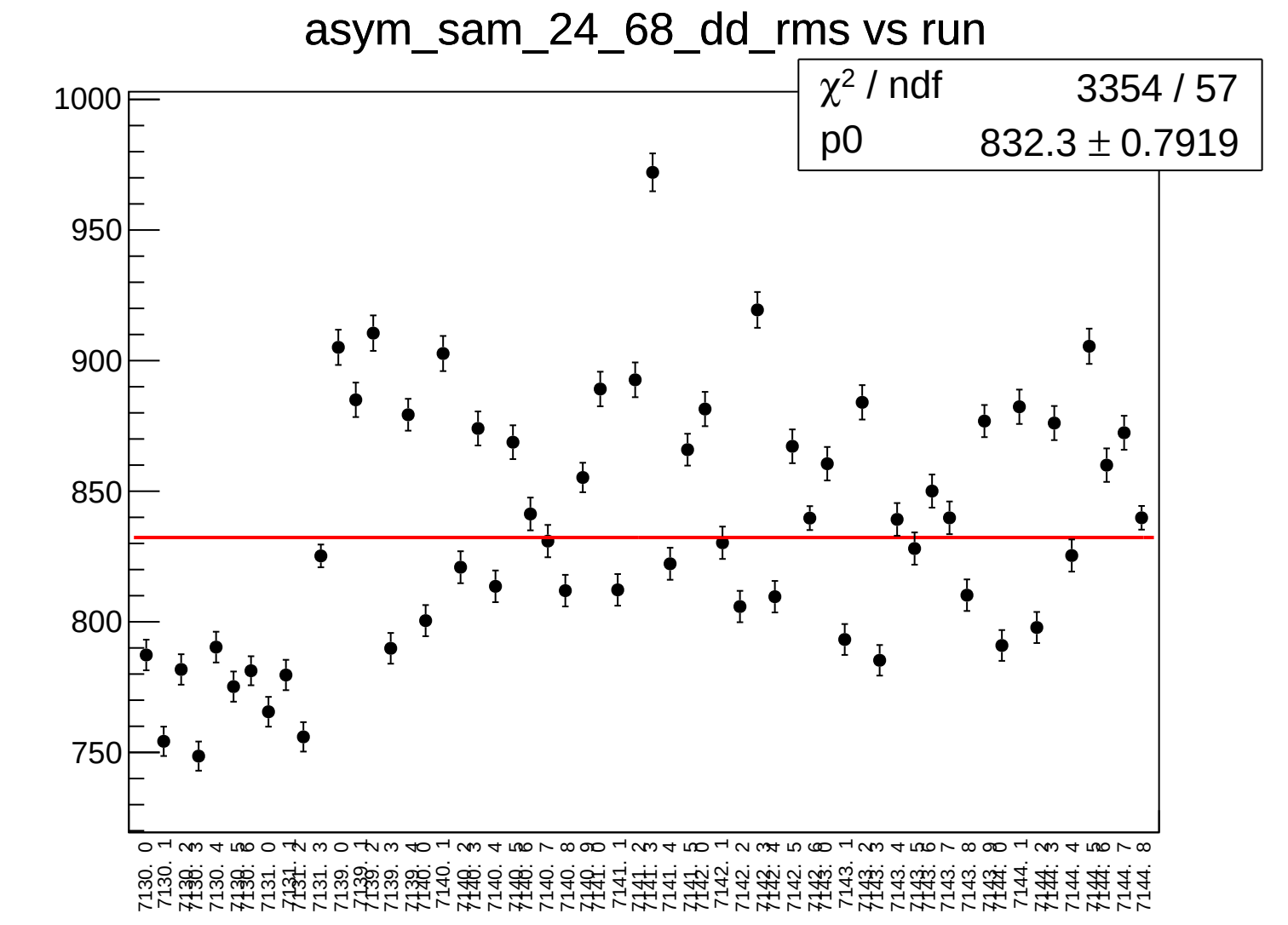

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 63.39 / 57
p0 2251 ± 1115
pull
Entries 58
Mean 270.2
Std Dev 240.1

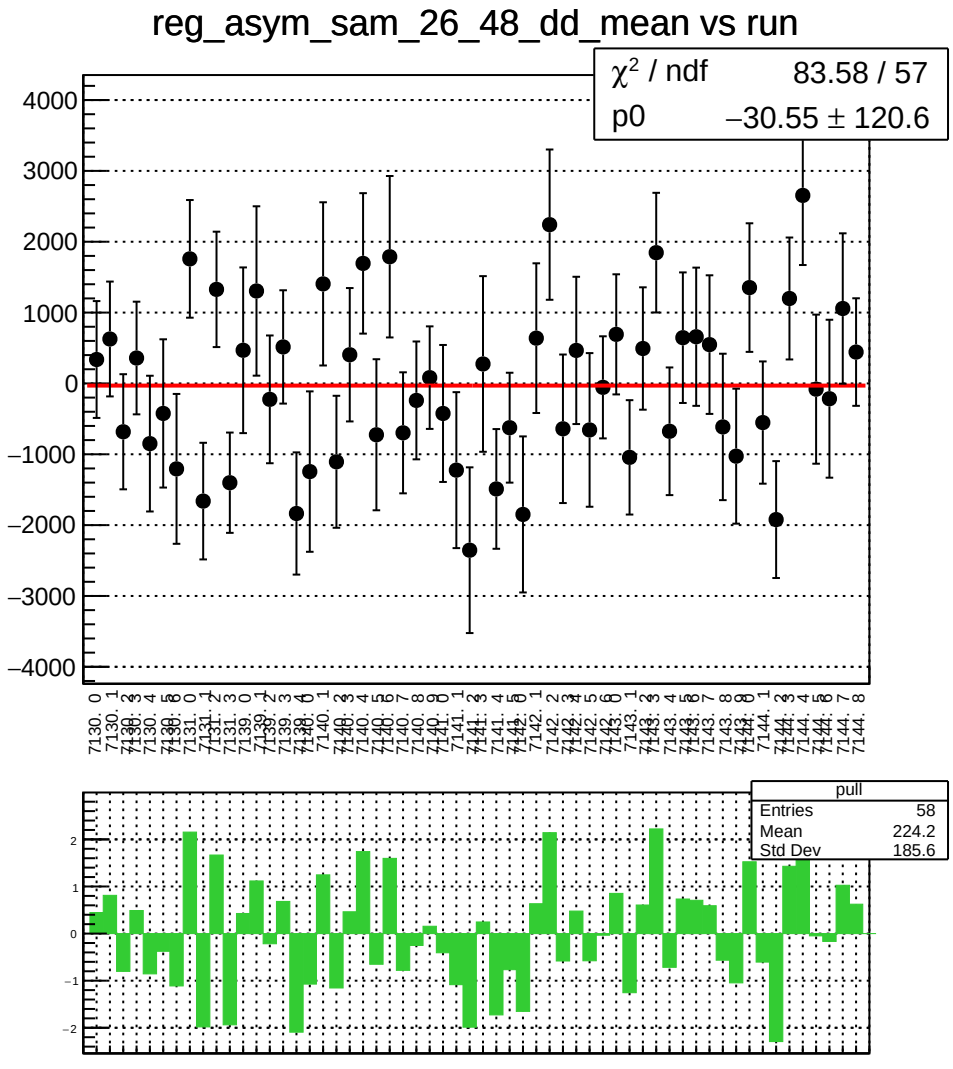

pull1D
Entries 58
Mean −0.02515
Std Dev 1.045

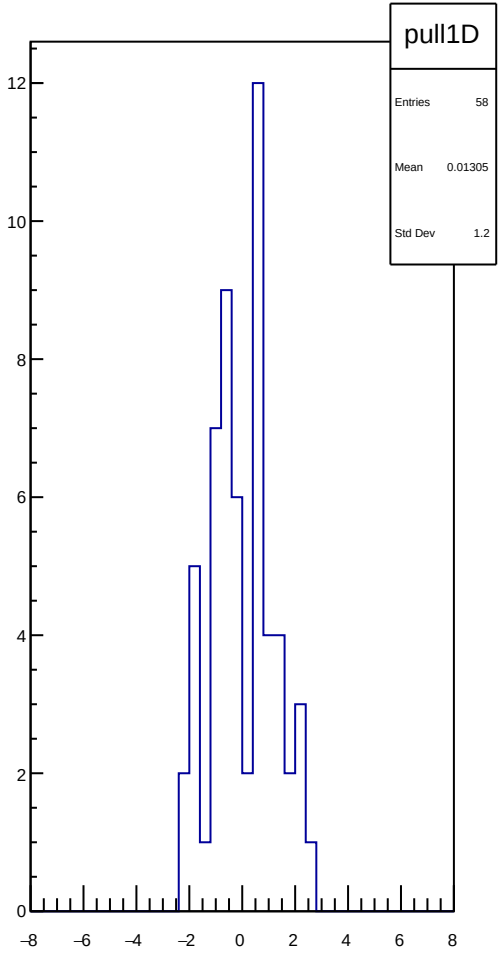

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 3388 / 57
p0 828.7 ± 0.7885
950
900
850
800
750

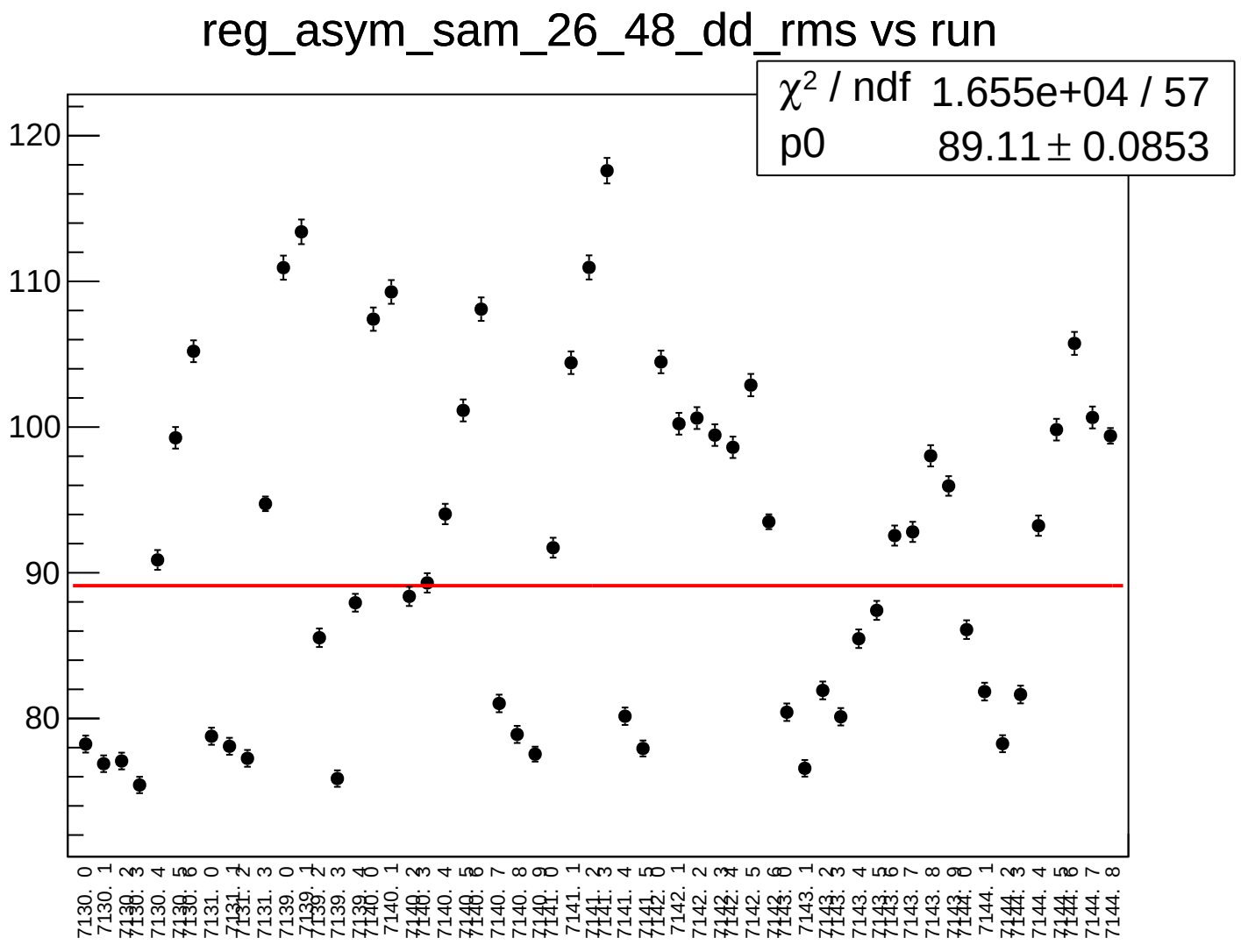

asym_sam_24_68_dd_mean vs run
χ² / ndf 62.17 / 57
p0 −2004 ± 1120
pull
Entries 58
Mean 283.3
Std Dev 253.1

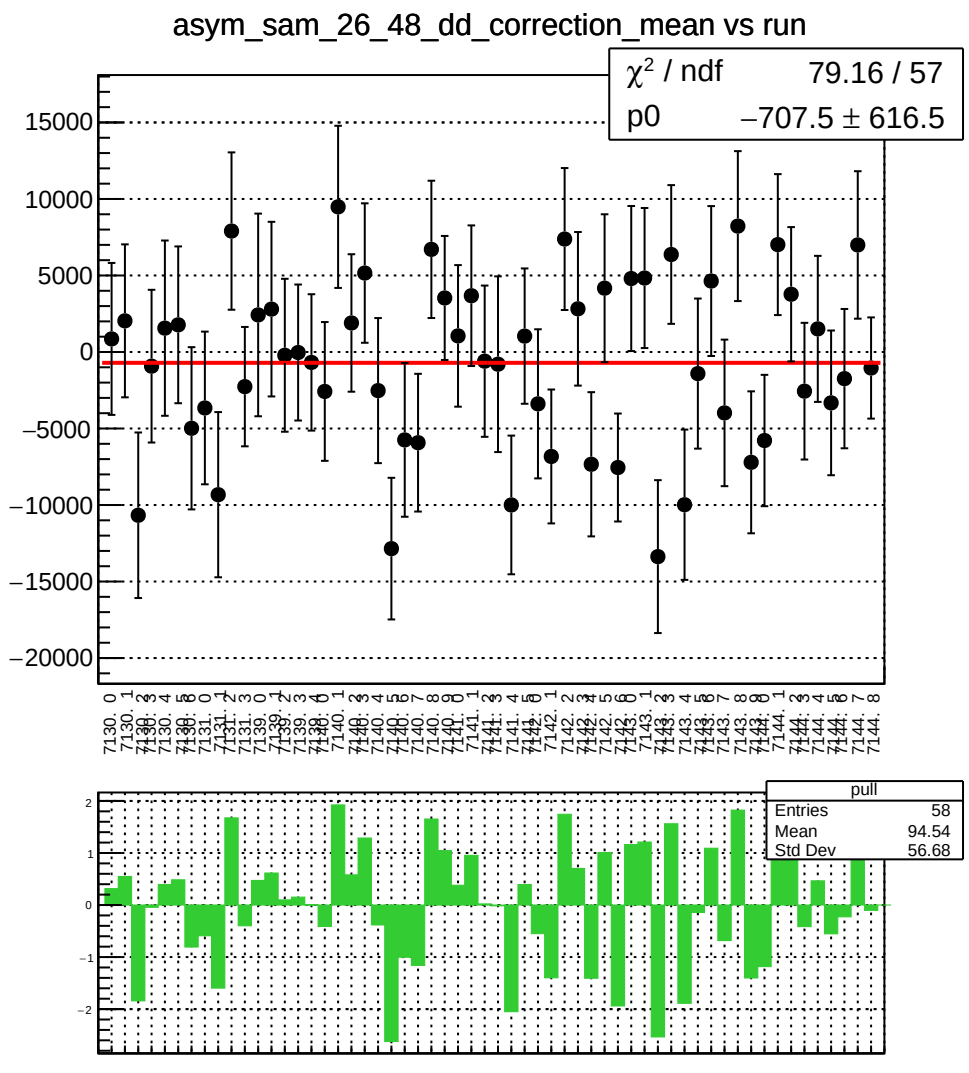

pull1D
Entries 58
Mean 0.0226
Std Dev 1.035

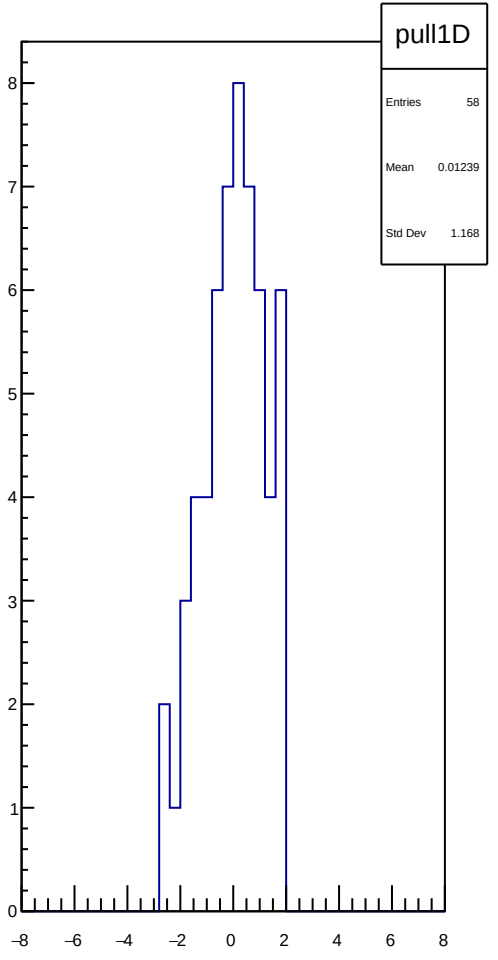

asym_sam_24_68_dd_rms vs run
χ² / ndf 3354 / 57
p0 832.3 ± 0.7919
1000
950
900
850
800
750

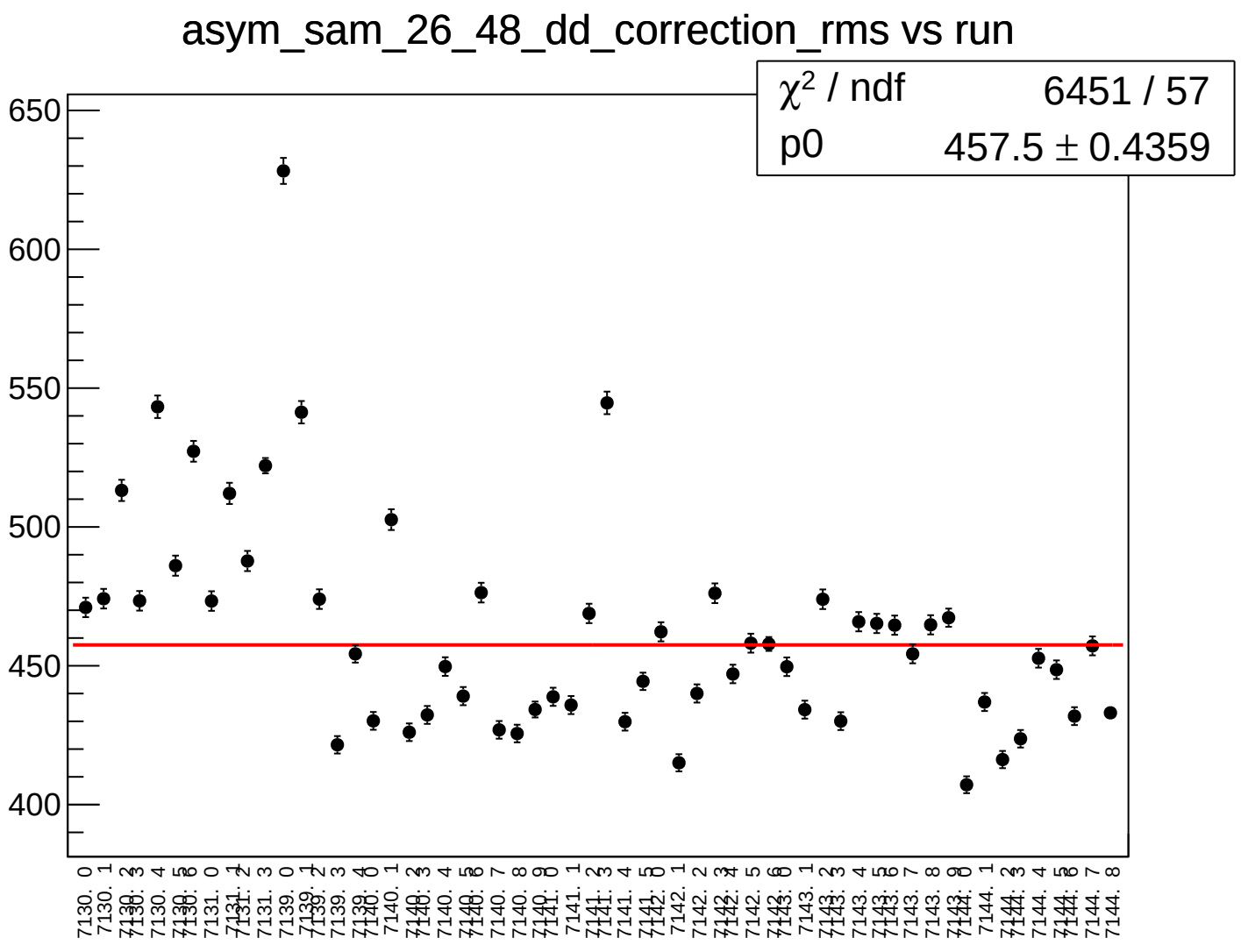

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.58 / 57
p0 −30.55 ± 120.6
pull
Entries 58
Mean 224.2
Std Dev 185.6

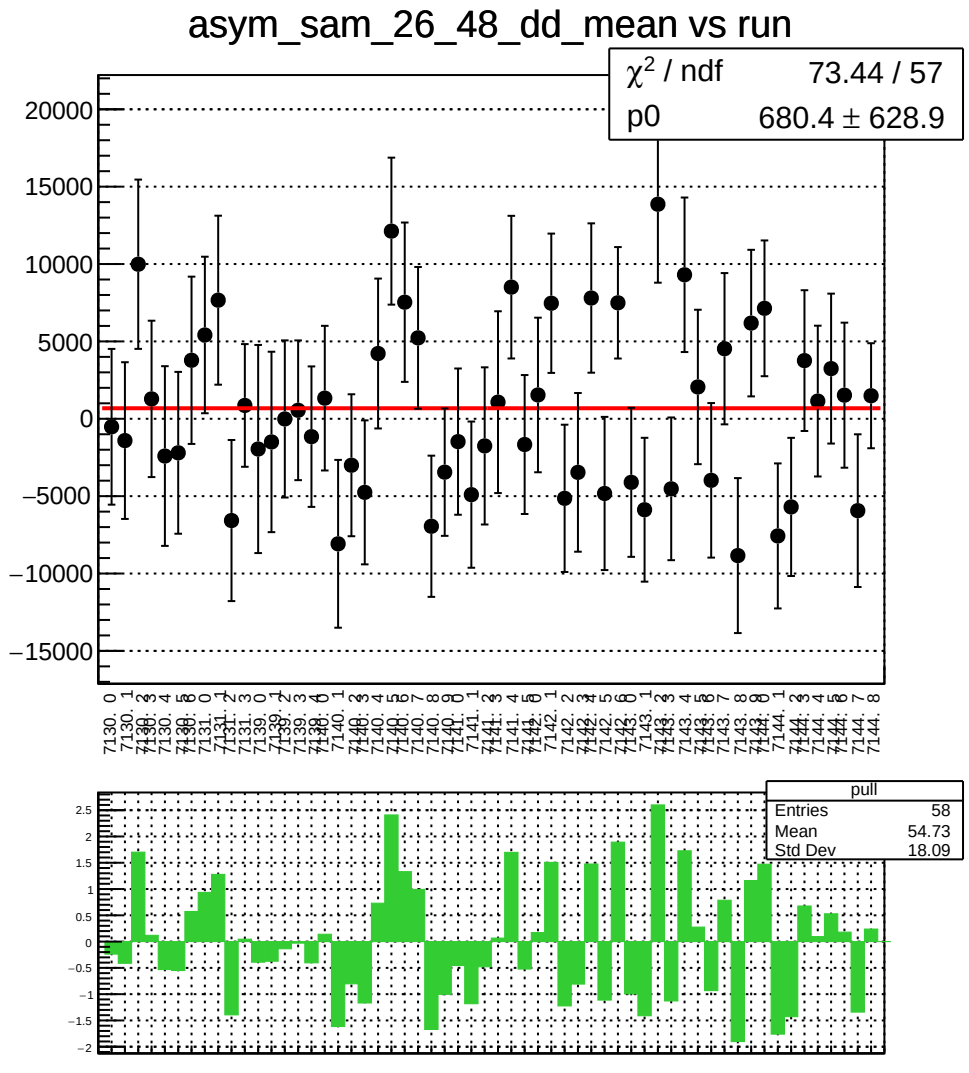

pull1D
Entries 58
Mean 0.01305
Std Dev 1.2

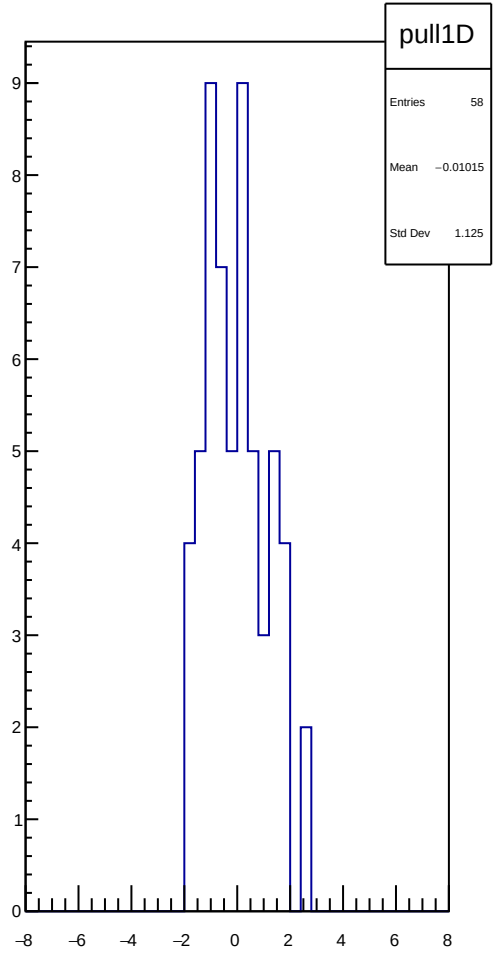

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.655e+04 / 57
p0 89.11 ± 0.0853
120
110
100
90
80
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7141. 6
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

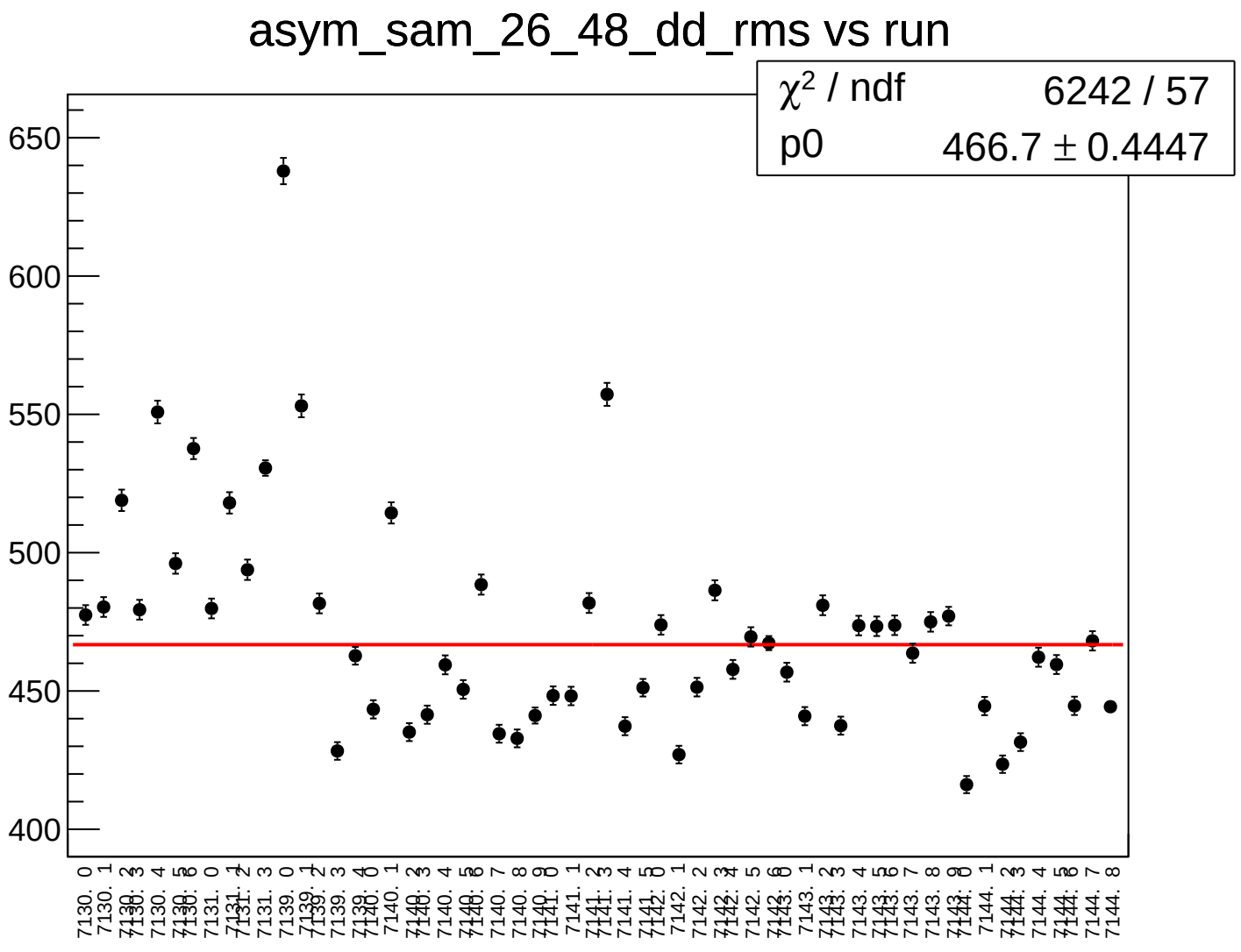

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 79.16 / 57
p0 −707.5 ± 616.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 58
Mean 94.54
Std Dev 56.68
2
1
0
−1
−2

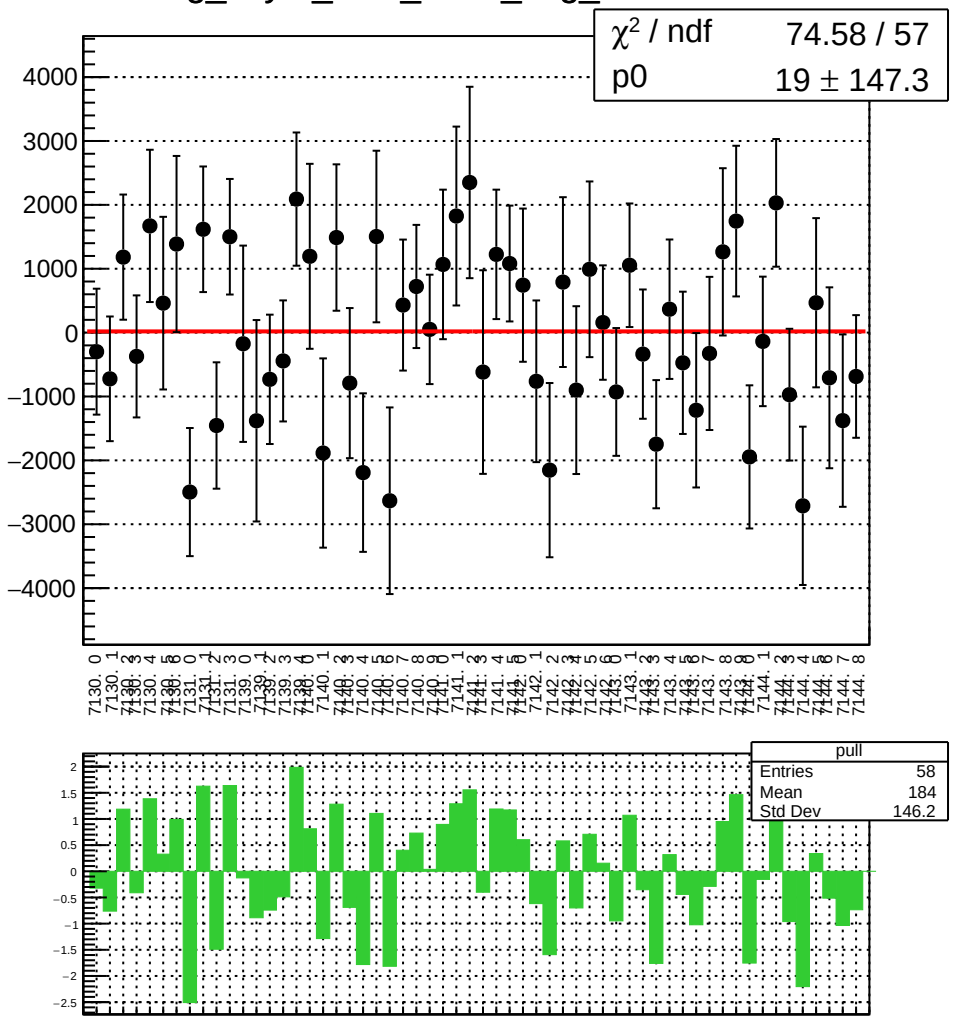

pull1D
Entries 58
Mean 0.01239
Std Dev 1.168
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

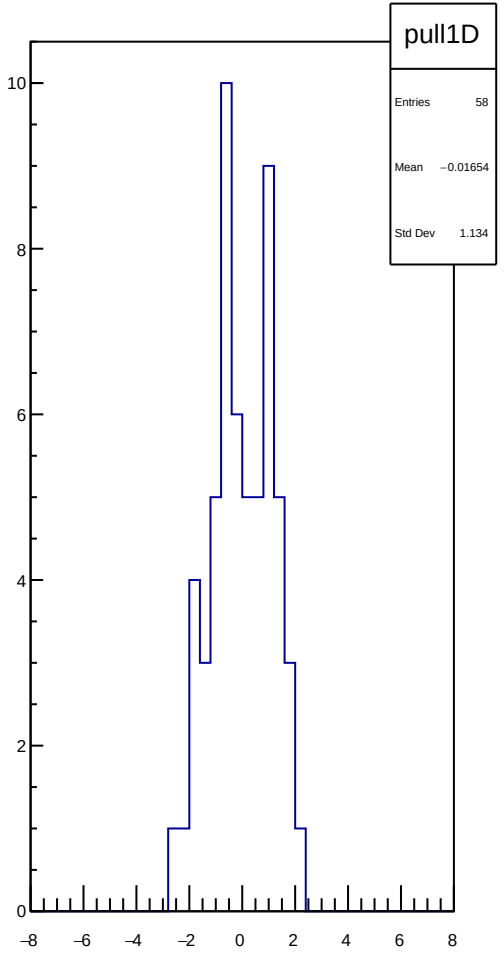

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 6451 / 57
p0 457.5 ± 0.4359
650
600
550
500
450
400

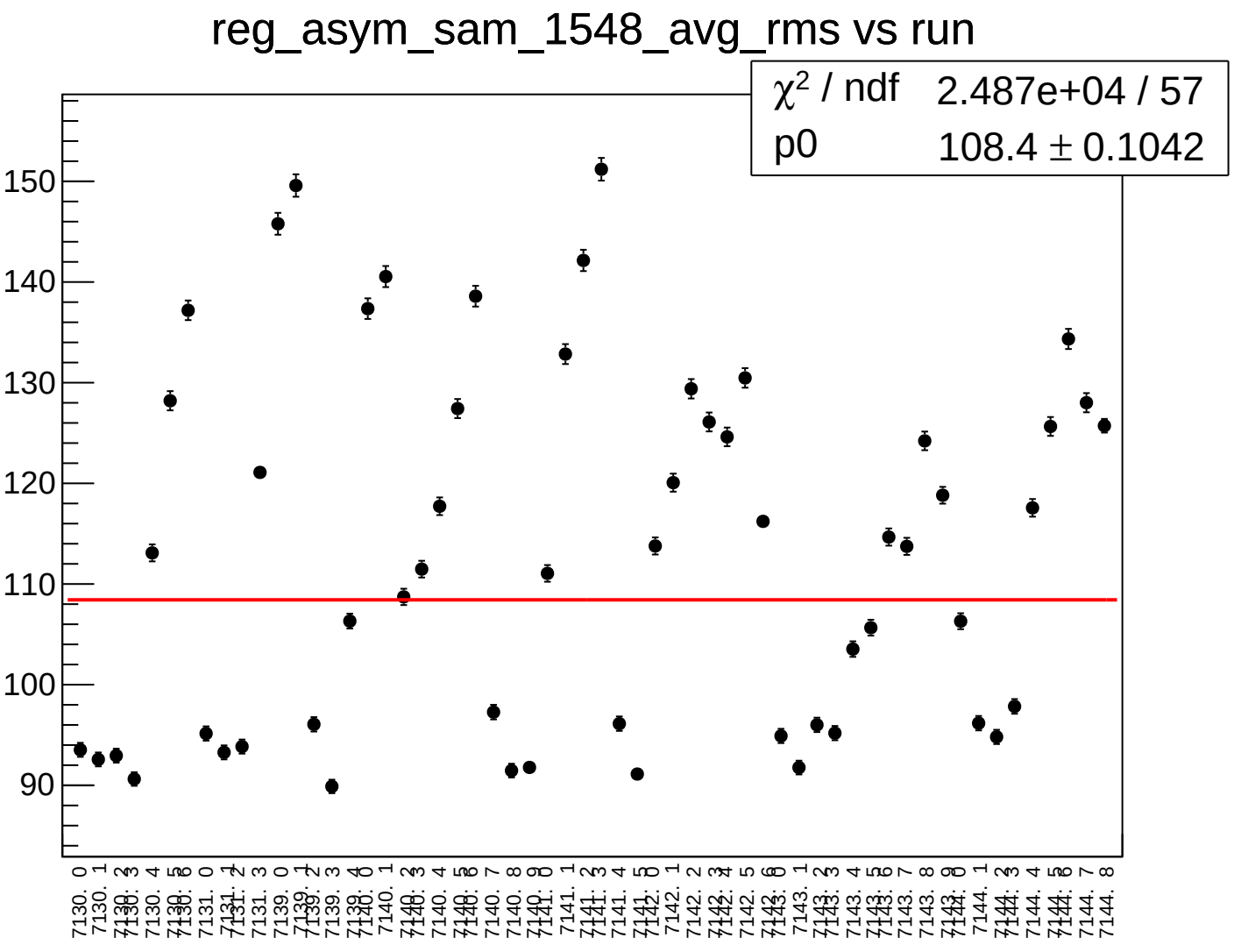

asym_sam_26_48_dd_mean vs run
χ² / ndf 73.44 / 57
p0 680.4 ± 628.9
pull
Entries 58
Mean 54.73
Std Dev 18.09

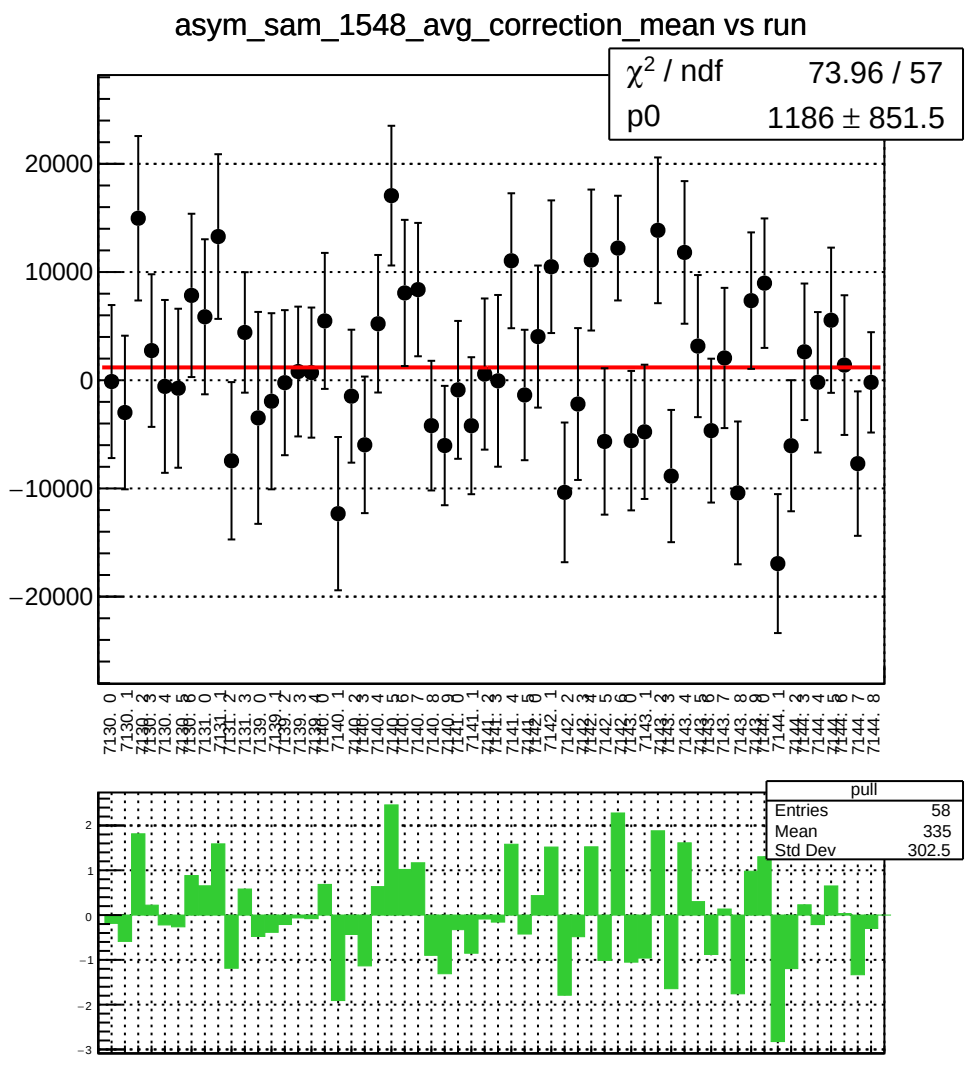

pull1D
Entries 58
Mean −0.01015
Std Dev 1.125

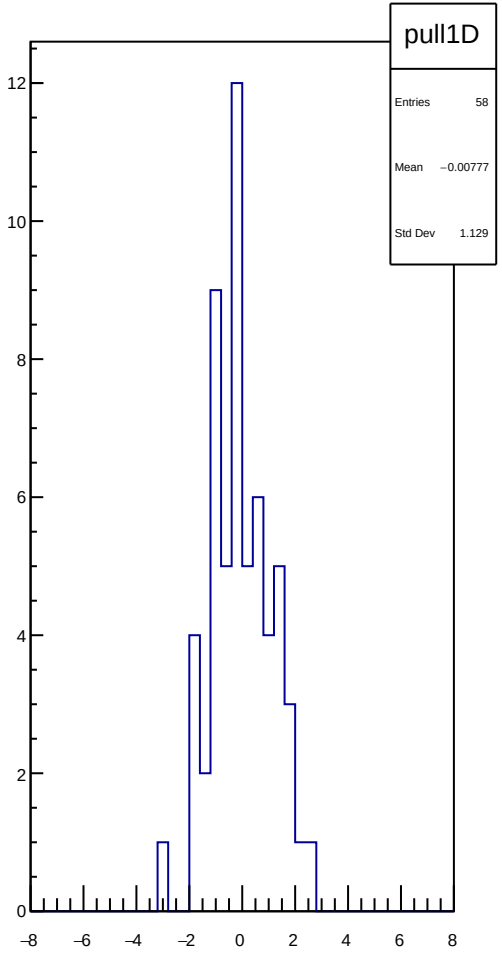

asym_sam_26_48_dd_rms vs run
χ² / ndf 6242 / 57
p0 466.7 ± 0.4447
650
600
550
500
450
400
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

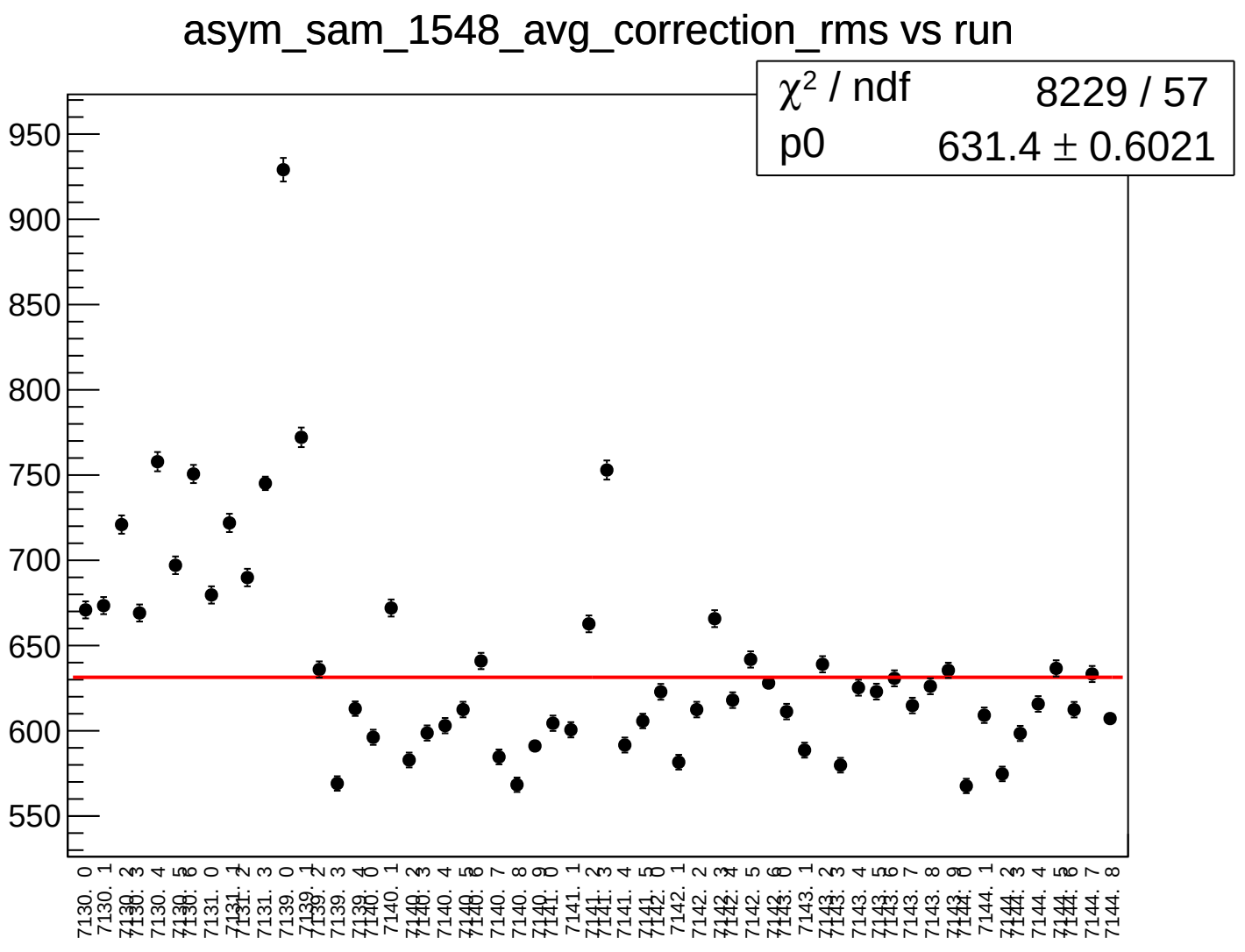

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 74.58 / 57
p0 19 ± 147.3
pull
Entries 58
Mean 184
Std Dev 146.2

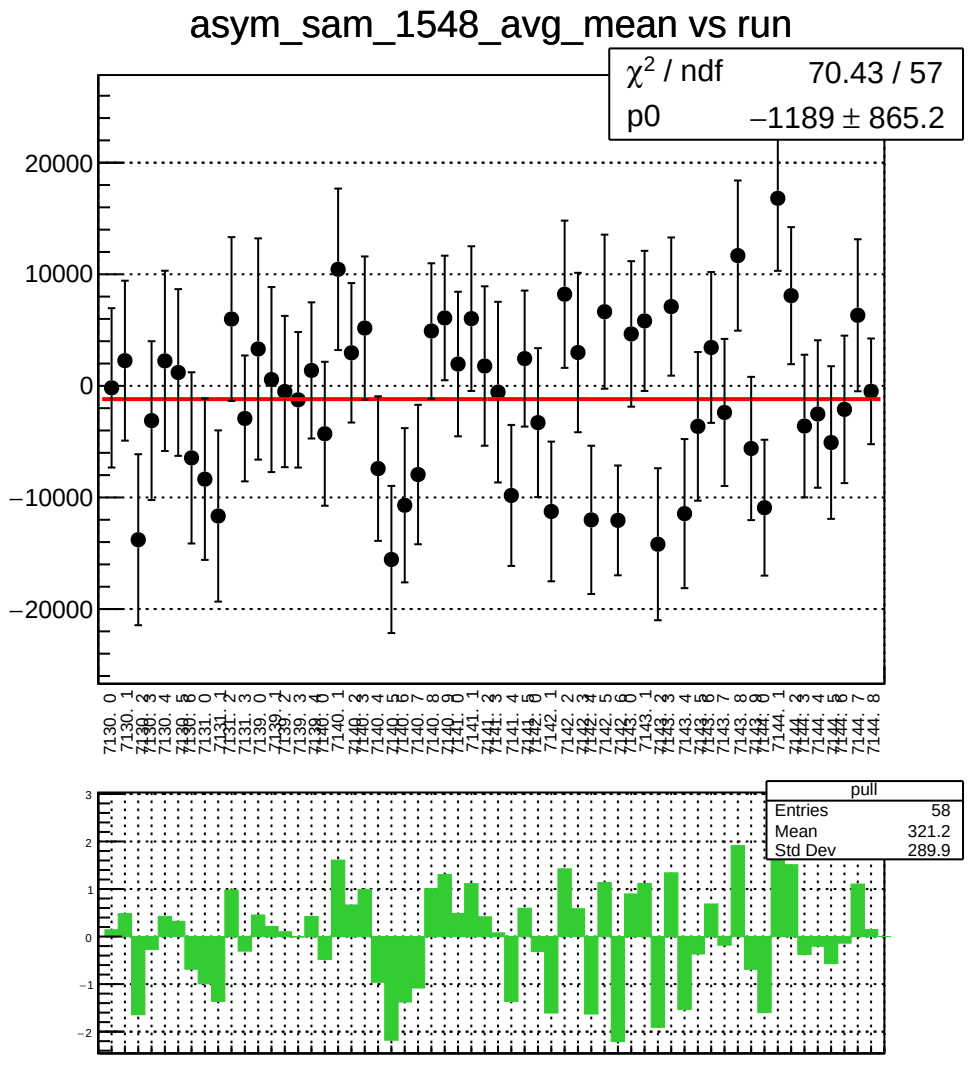

pull1D
Entries 58
Mean −0.01654
Std Dev 1.134

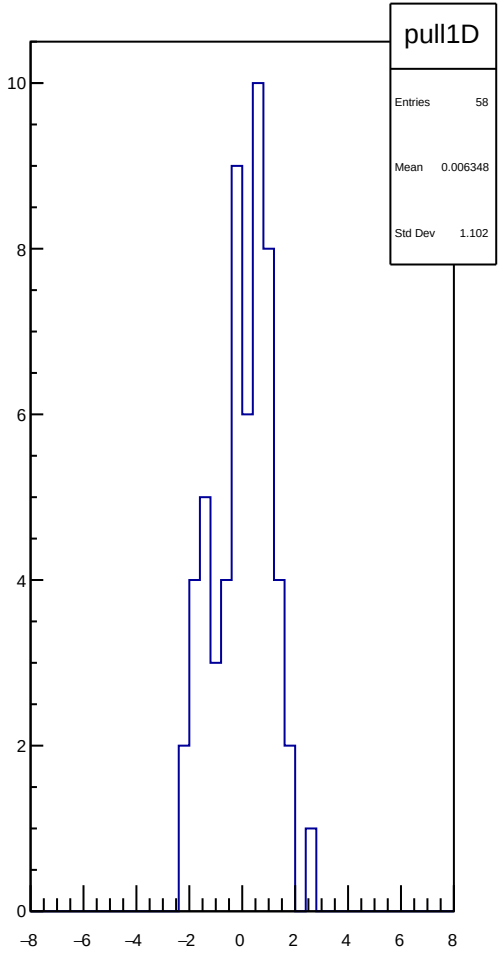

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 2.487e+04 / 57
p0 108.4 ± 0.1042
150
140
130
120
110
100
90

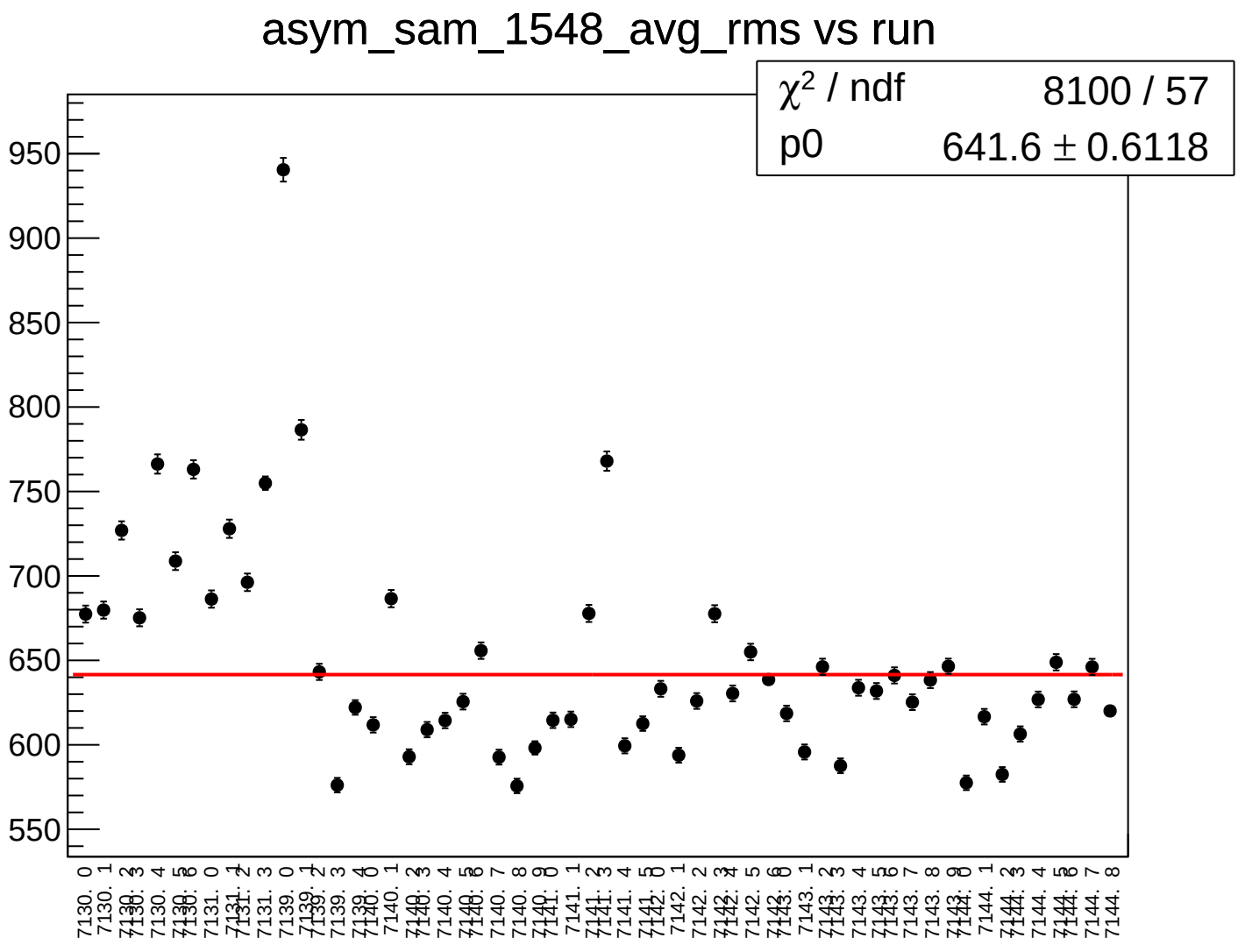

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 73.96 / 57
p0 1186 ± 851.5
20000
10000
0
−10000
−20000
pull
Entries 58
Mean 335
Std Dev 302.5
2
1
0
−1
−2
−3


pull1D
Entries 58
Mean −0.00777
Std Dev 1.129
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 8229 / 57
p0 631.4 ± 0.6021
950
900
850
800
750
700
650
600
550


asym_sam_1548_avg_mean vs run
χ² / ndf 70.43 / 57
p0 −1189 ± 865.2
20000
10000
0
−10000
−20000
pull
Entries 58
Mean 321.2
Std Dev 289.9
3
2
1
0
−1
−2


pull1D
Entries 58
Mean 0.006348
Std Dev 1.102
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_rms vs run
χ² / ndf 8100 / 57
p0 641.6 ± 0.6118
950
900
850
800
750
700
650
600
550
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
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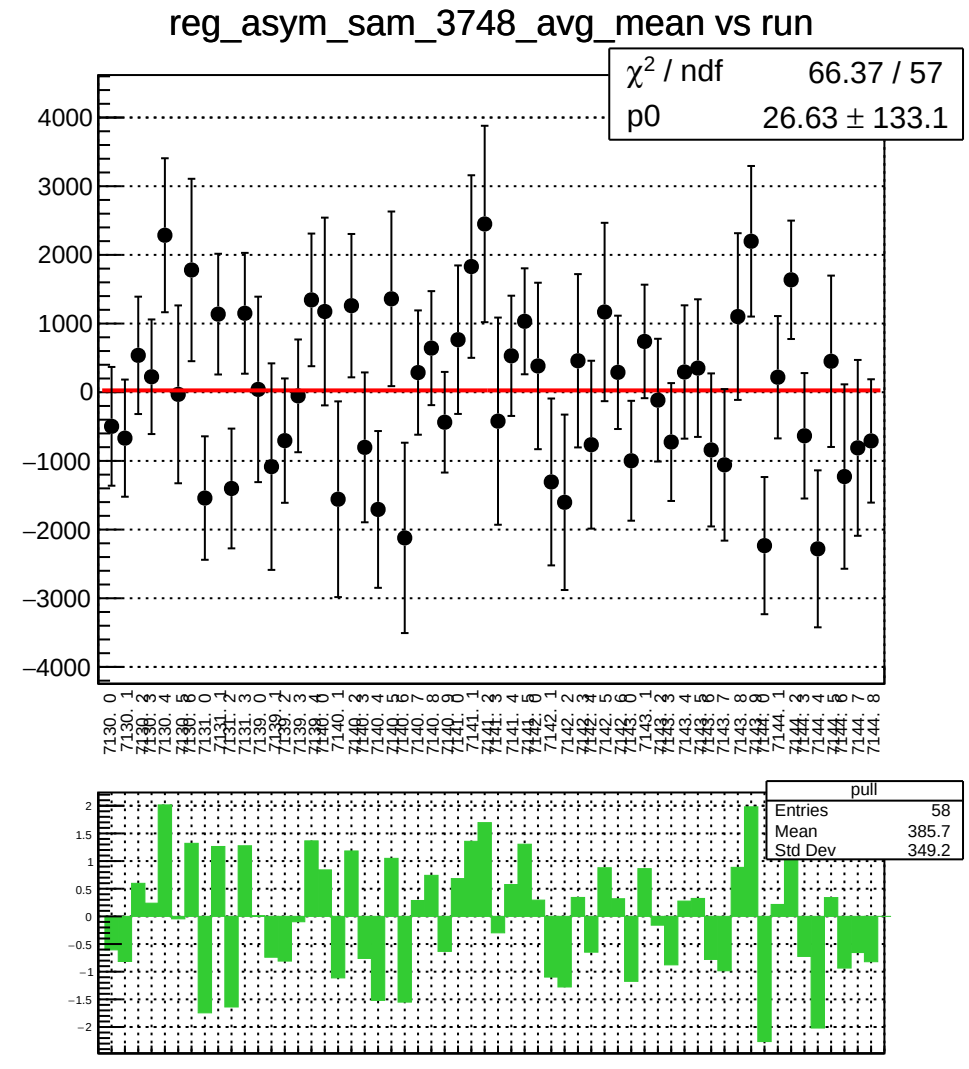
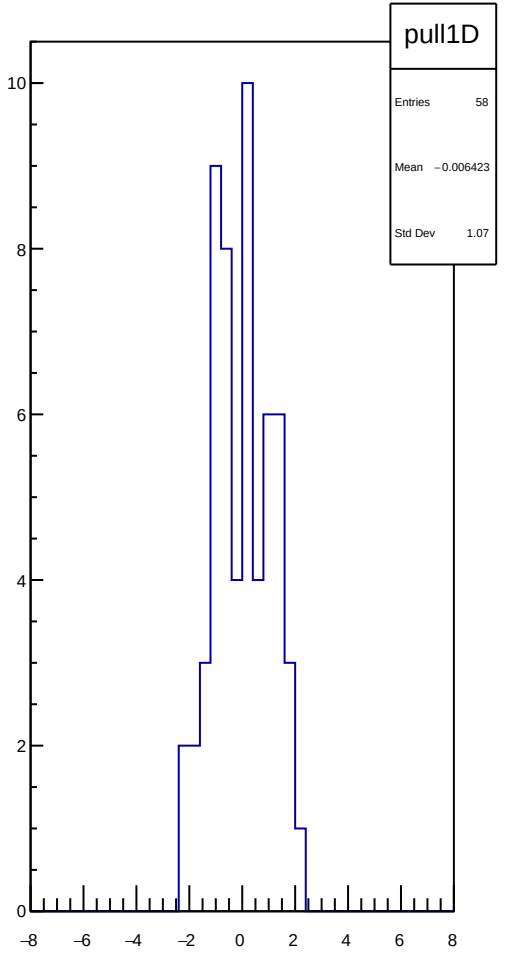
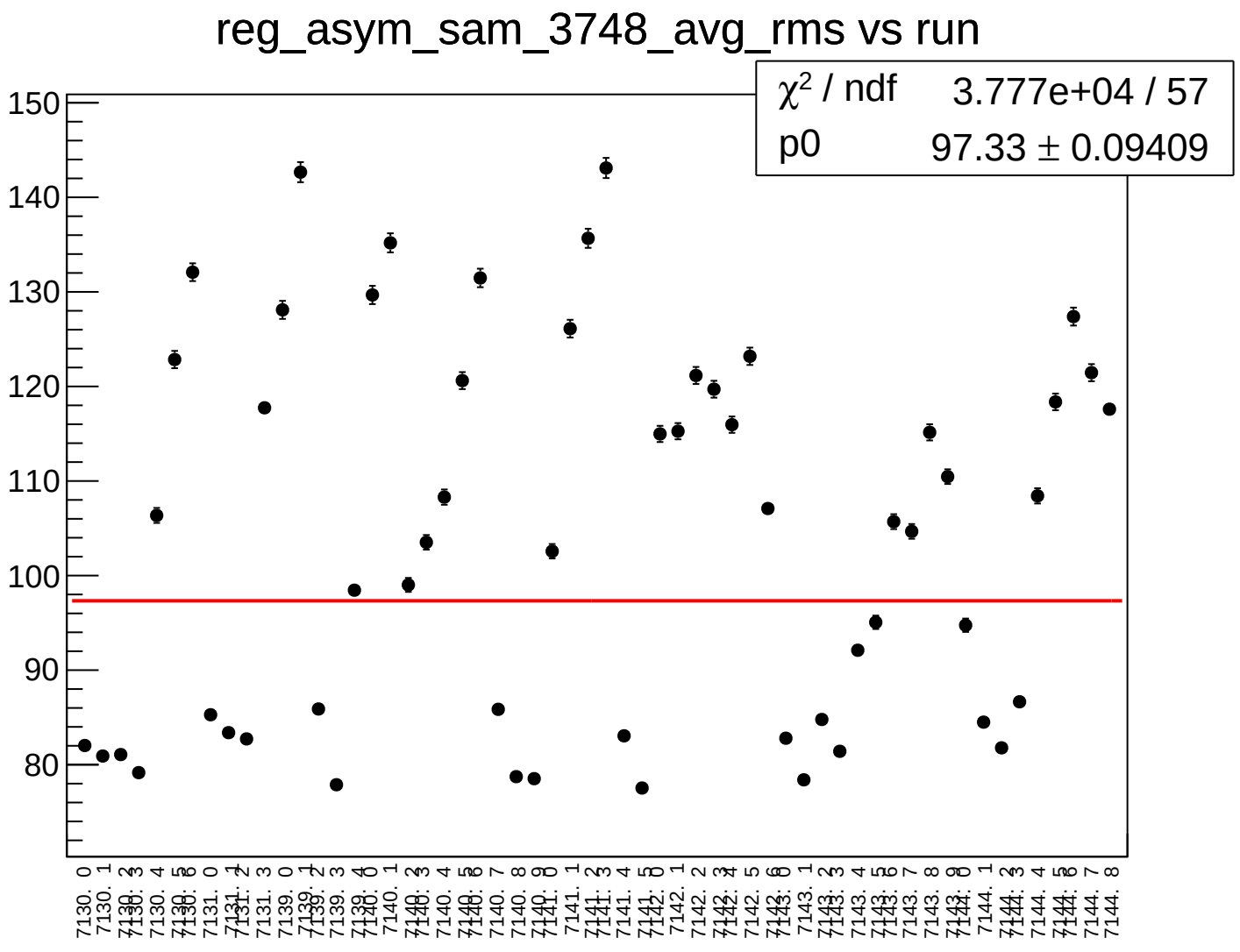
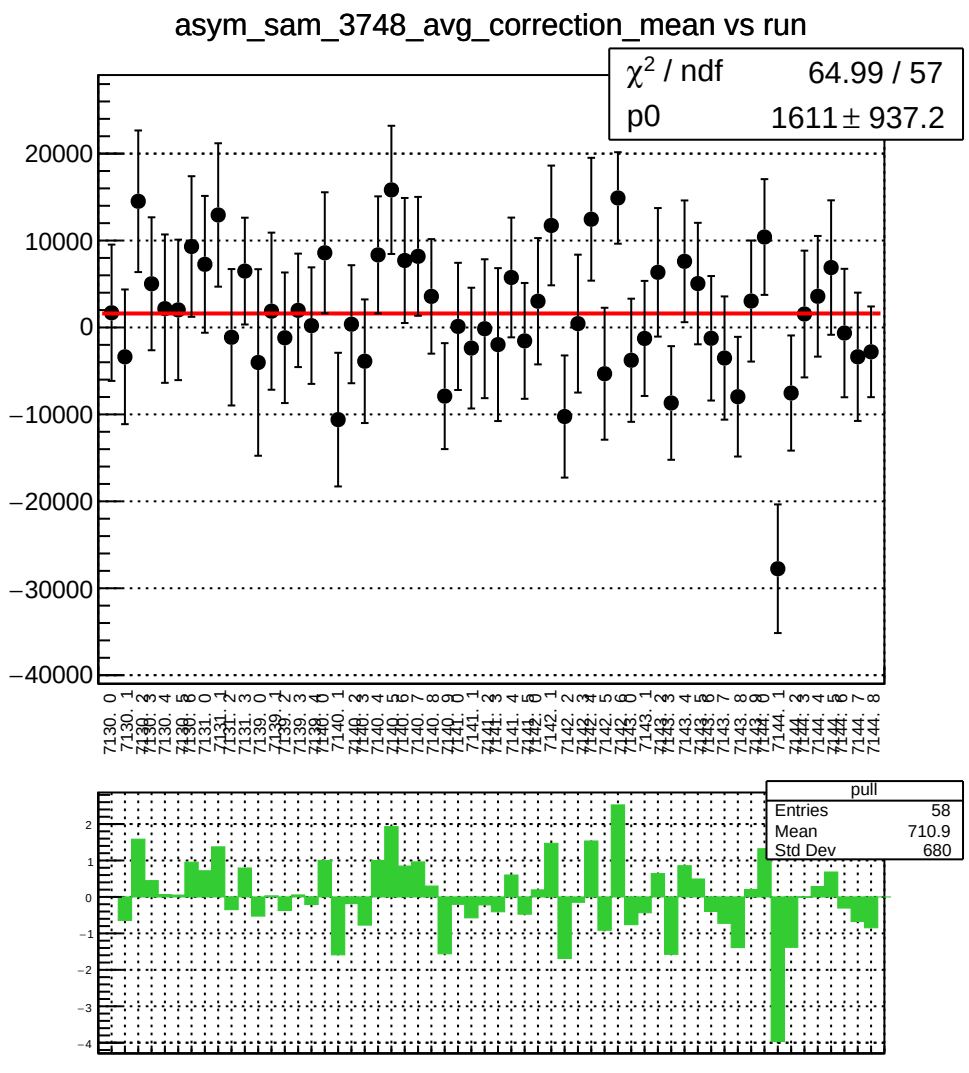
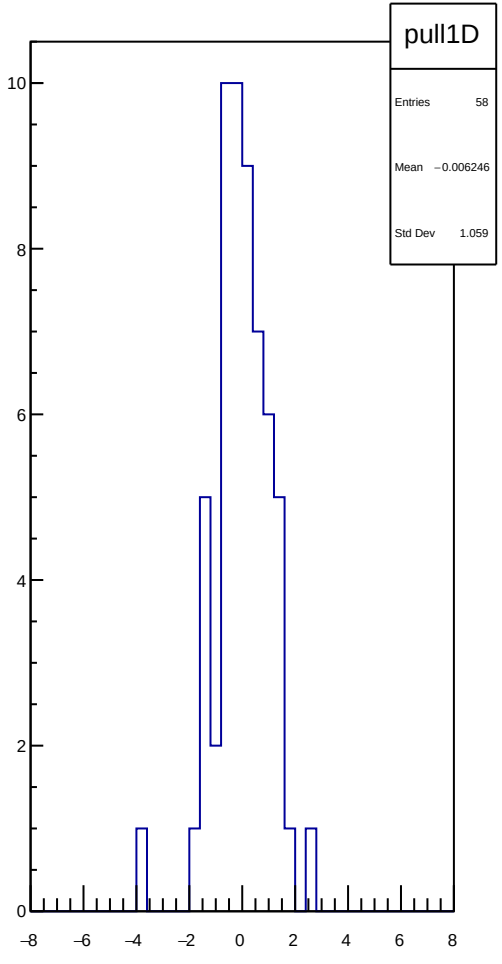
7144. 8

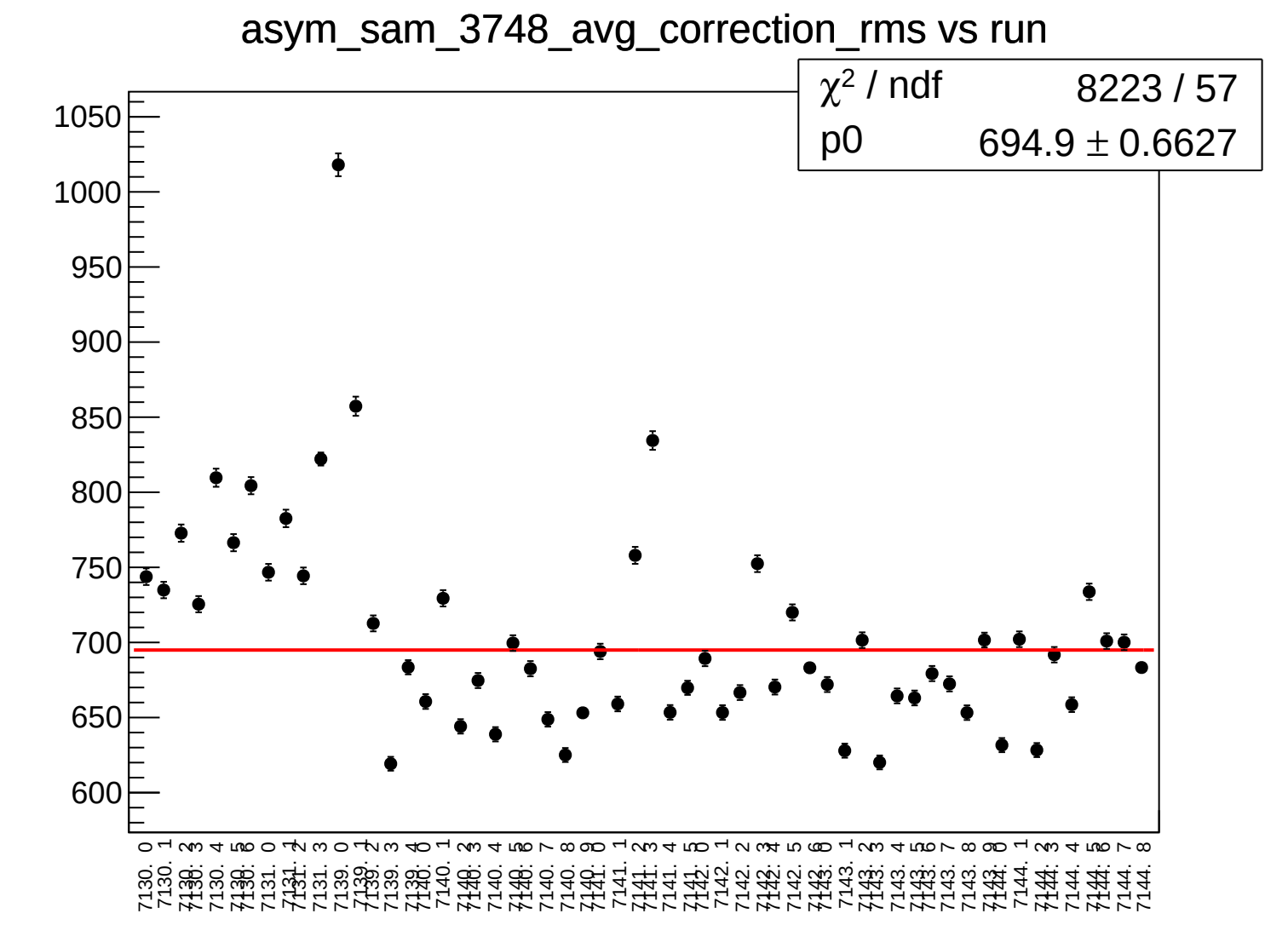

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 66.37 / 57
p0 26.63 ± 133.1
pull
Entries 58
Mean 385.7
Std Dev 349.2

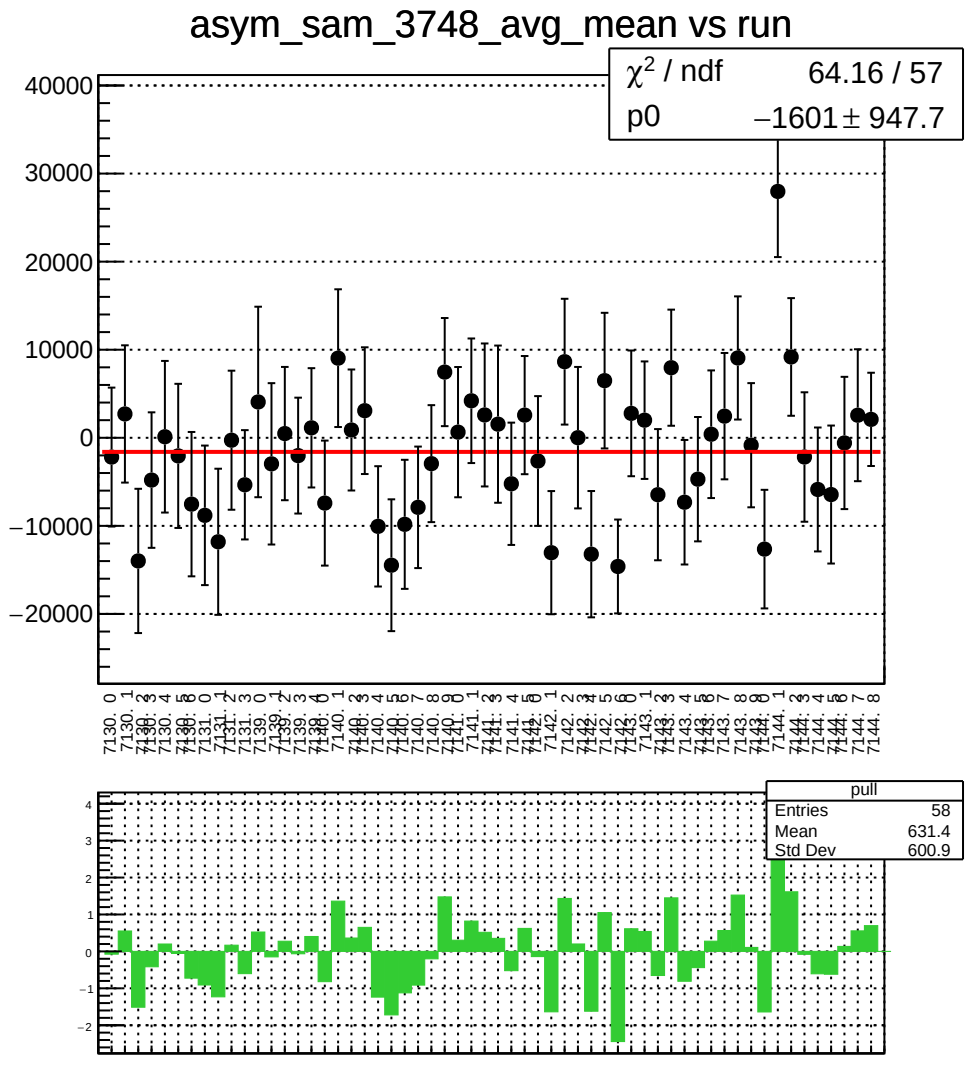

pull1D
Entries 58
Mean −0.006423
Std Dev 1.07

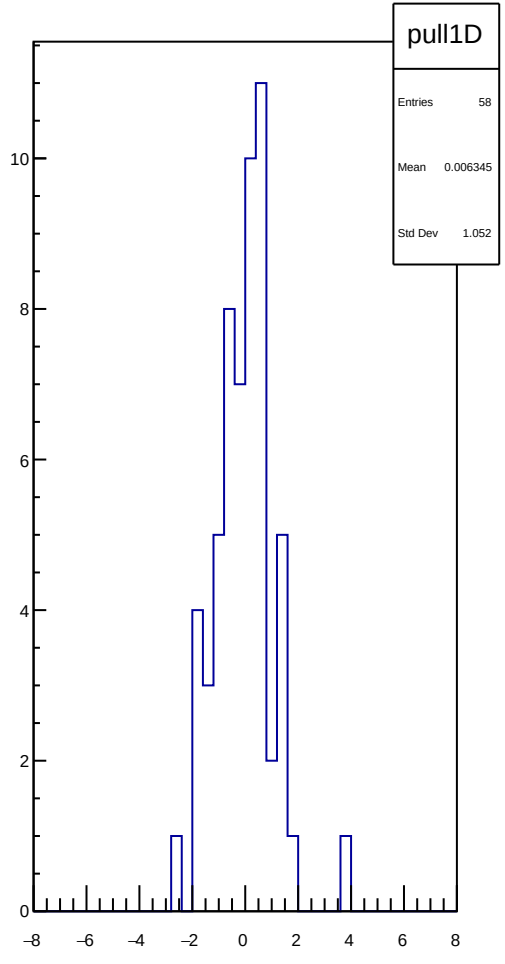

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 3.777e+04 / 57
p0 97.33 ± 0.09409
150
140
130
120
110
100
90
80

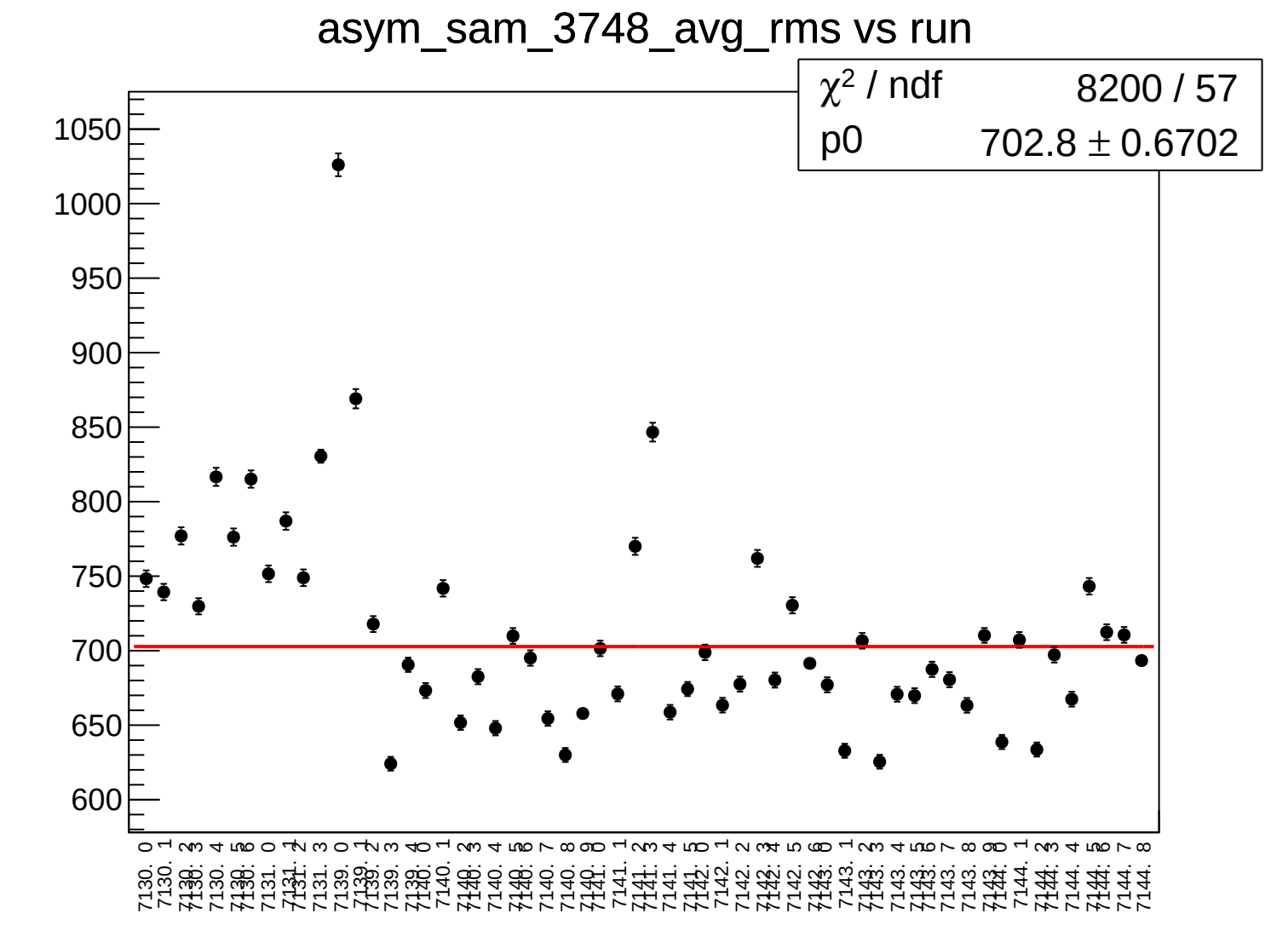

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 64.99 / 57
p0 1611 ± 937.2
pull
Entries 58
Mean 710.9
Std Dev 680

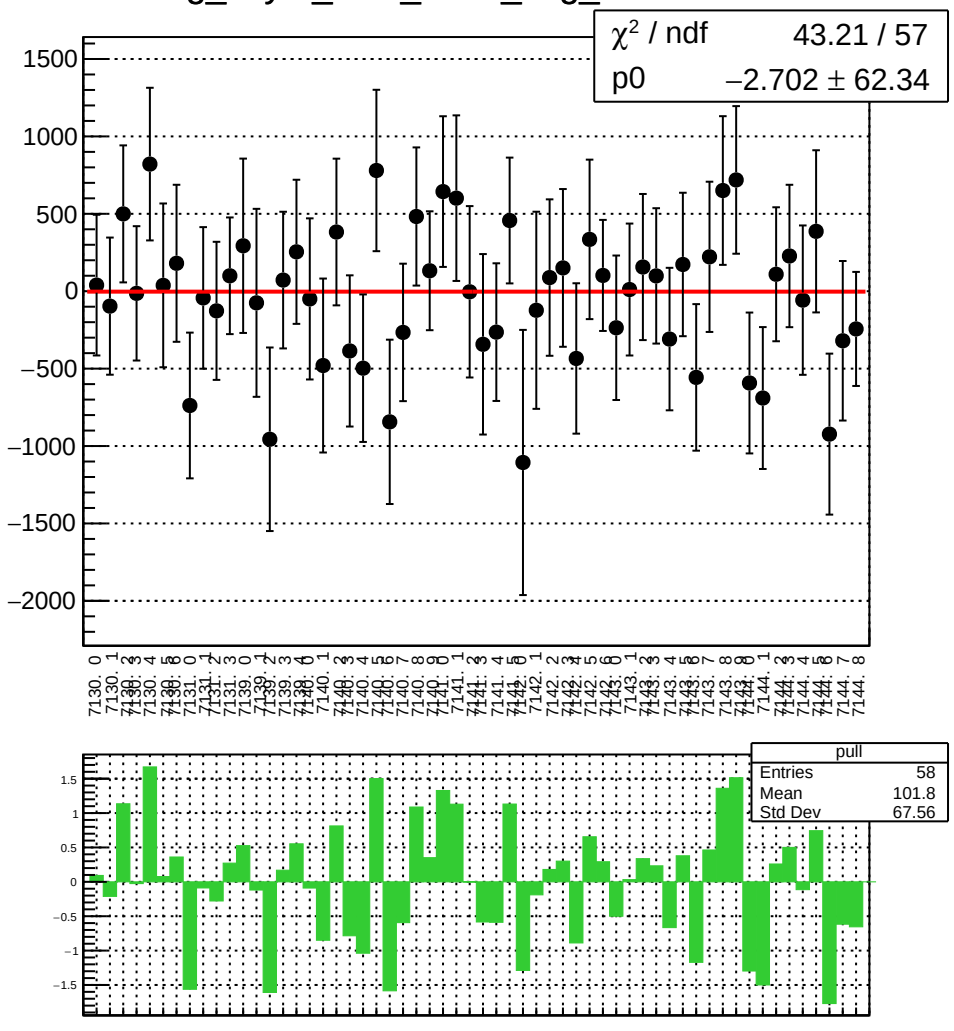

pull1D
Entries 58
Mean −0.006246
Std Dev 1.059

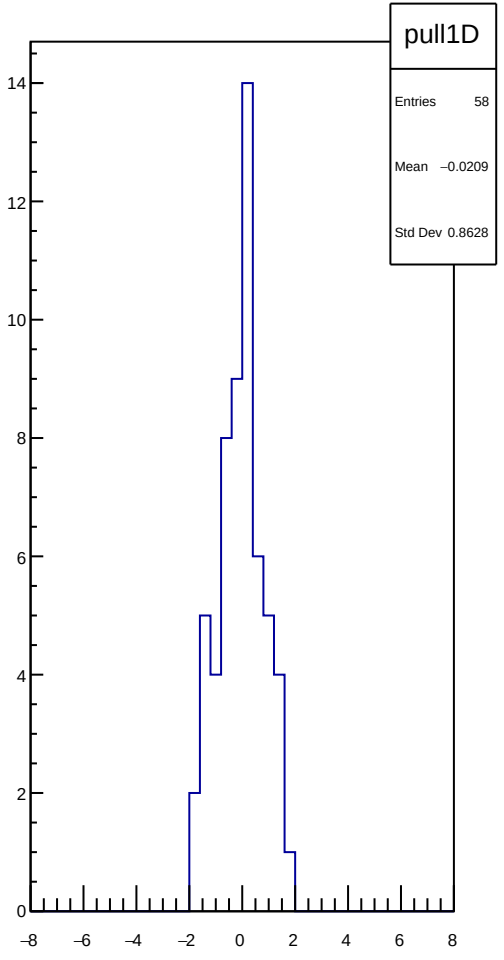

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 8223 / 57
p0 694.9 ± 0.6627
1050
1000
950
900
850
800
750
700
650
600

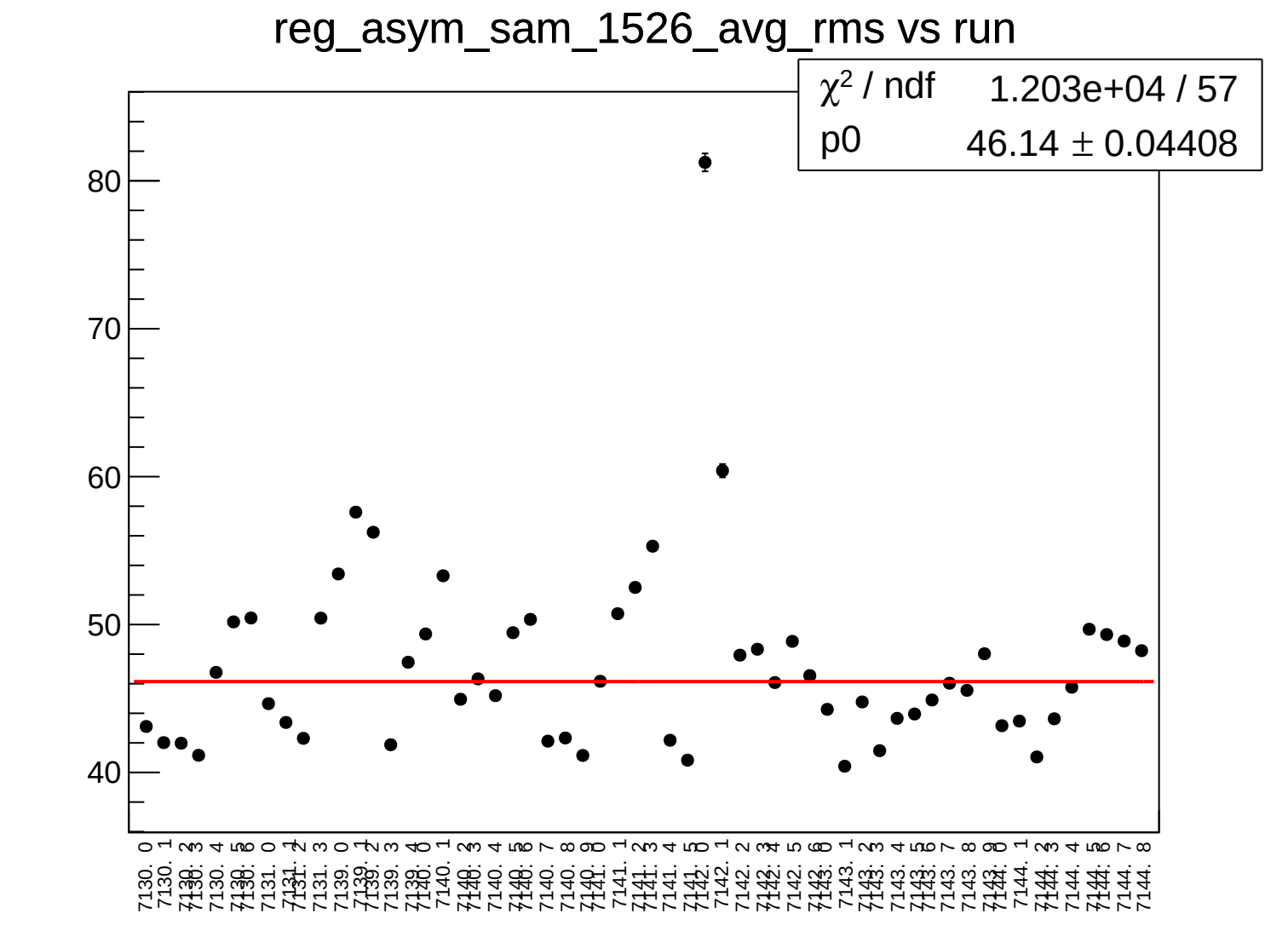

asym_sam_3748_avg_mean vs run
χ² / ndf 64.16 / 57
p0 −1601 ± 947.7
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 58
Mean 631.4
Std Dev 600.9
4
3
2
1
0
−1
−2

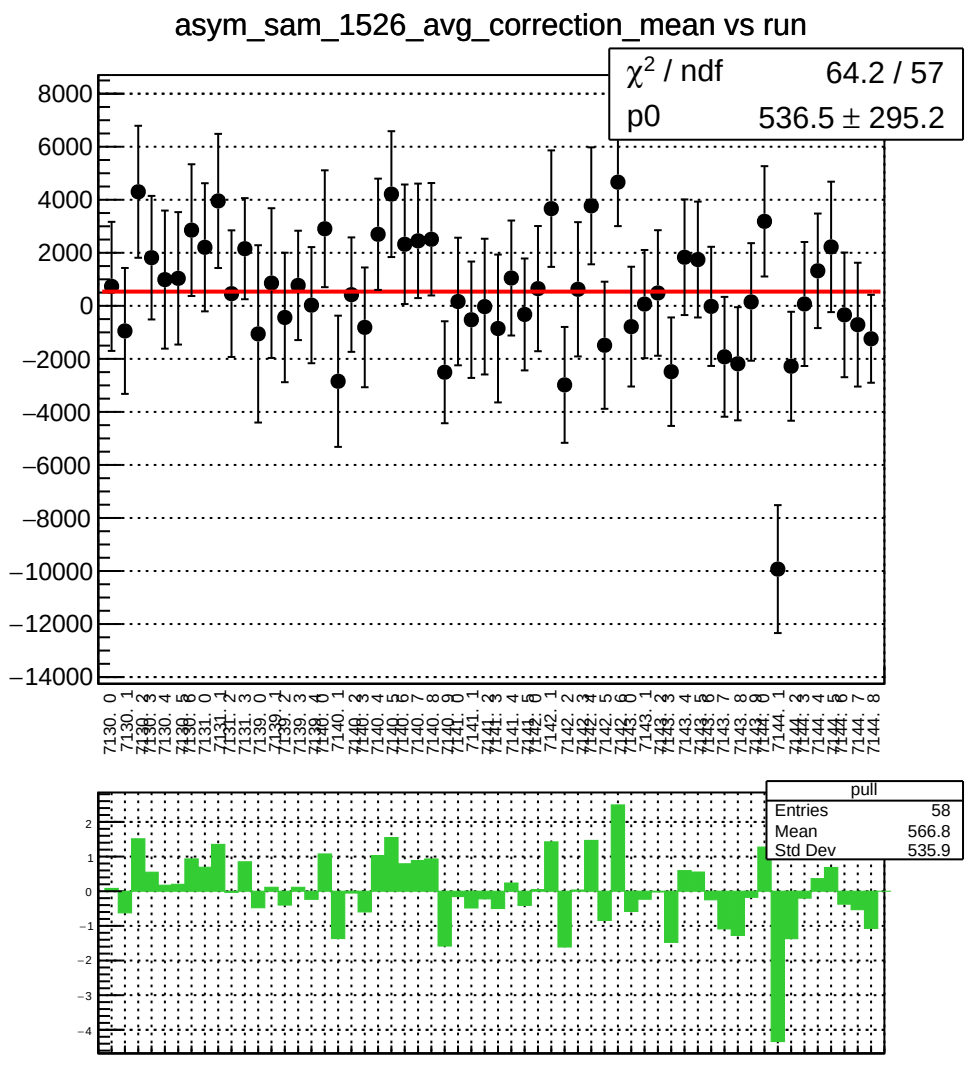

pull1D
Entries 58
Mean 0.006345
Std Dev 1.052
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

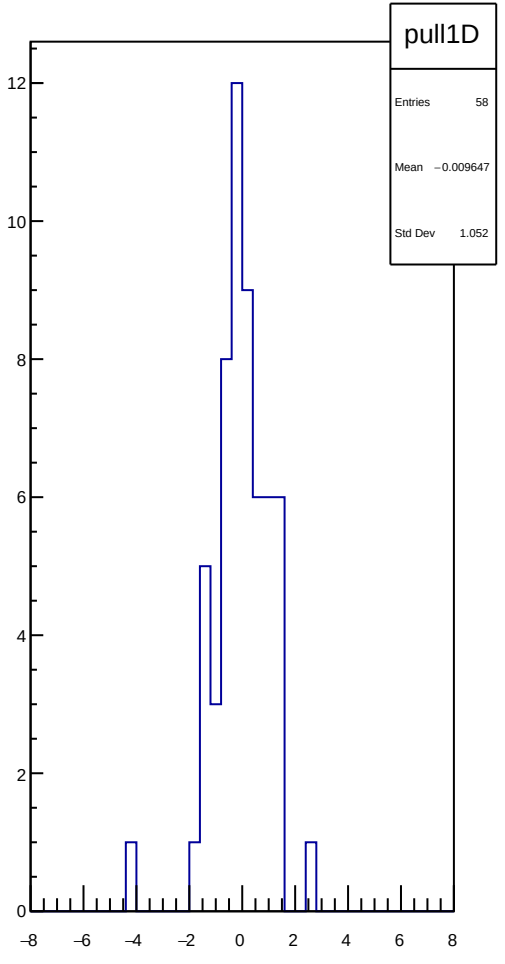

asym_sam_3748_avg_rms vs run
χ² / ndf 8200 / 57
p0 702.8 ± 0.6702
1050
1000
950
900
850
800
750
700
650
600

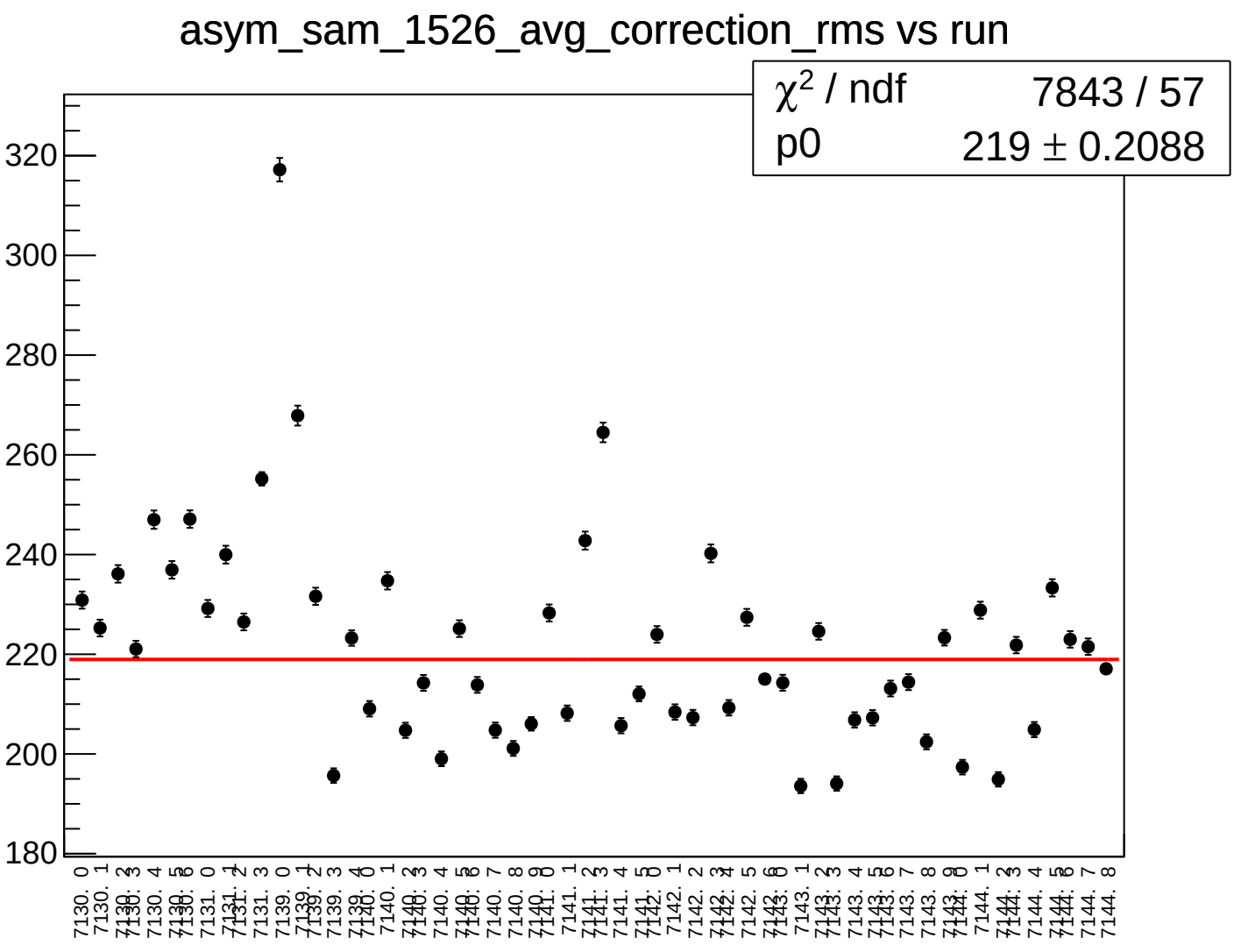

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 43.21 / 57
p0 −2.702 ± 62.34
pull
Entries 58
Mean 101.8
Std Dev 67.56

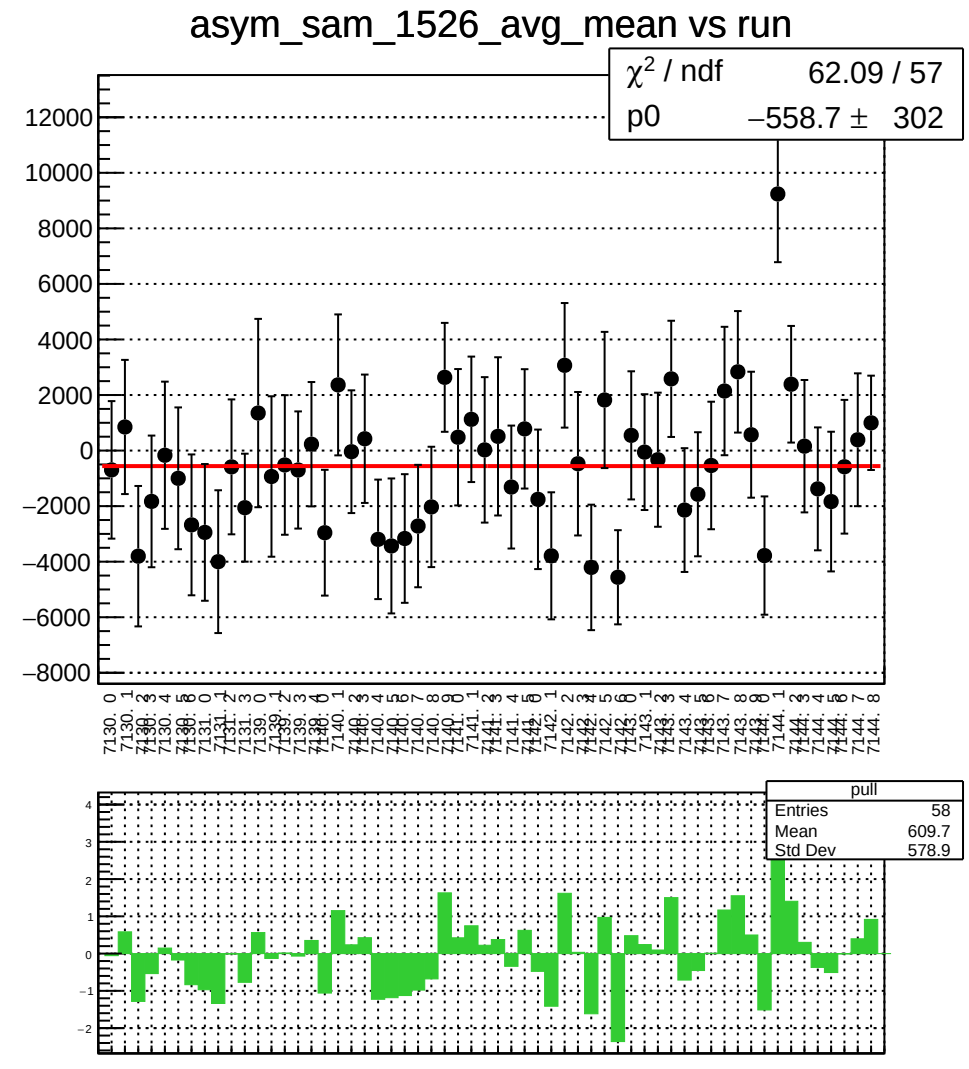

pull1D
Entries 58
Mean −0.0209
Std Dev 0.8628

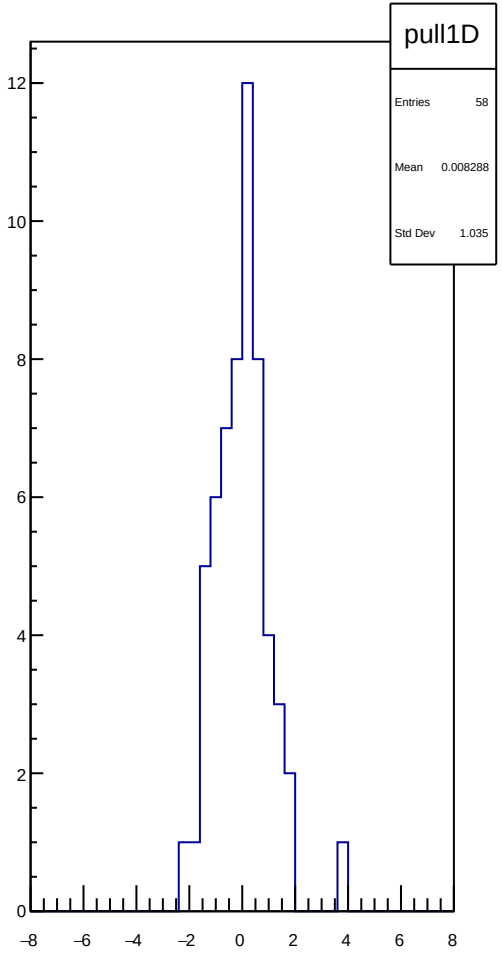

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.203e+04 / 57
p0 46.14 ± 0.04408
80
70
60
50
40

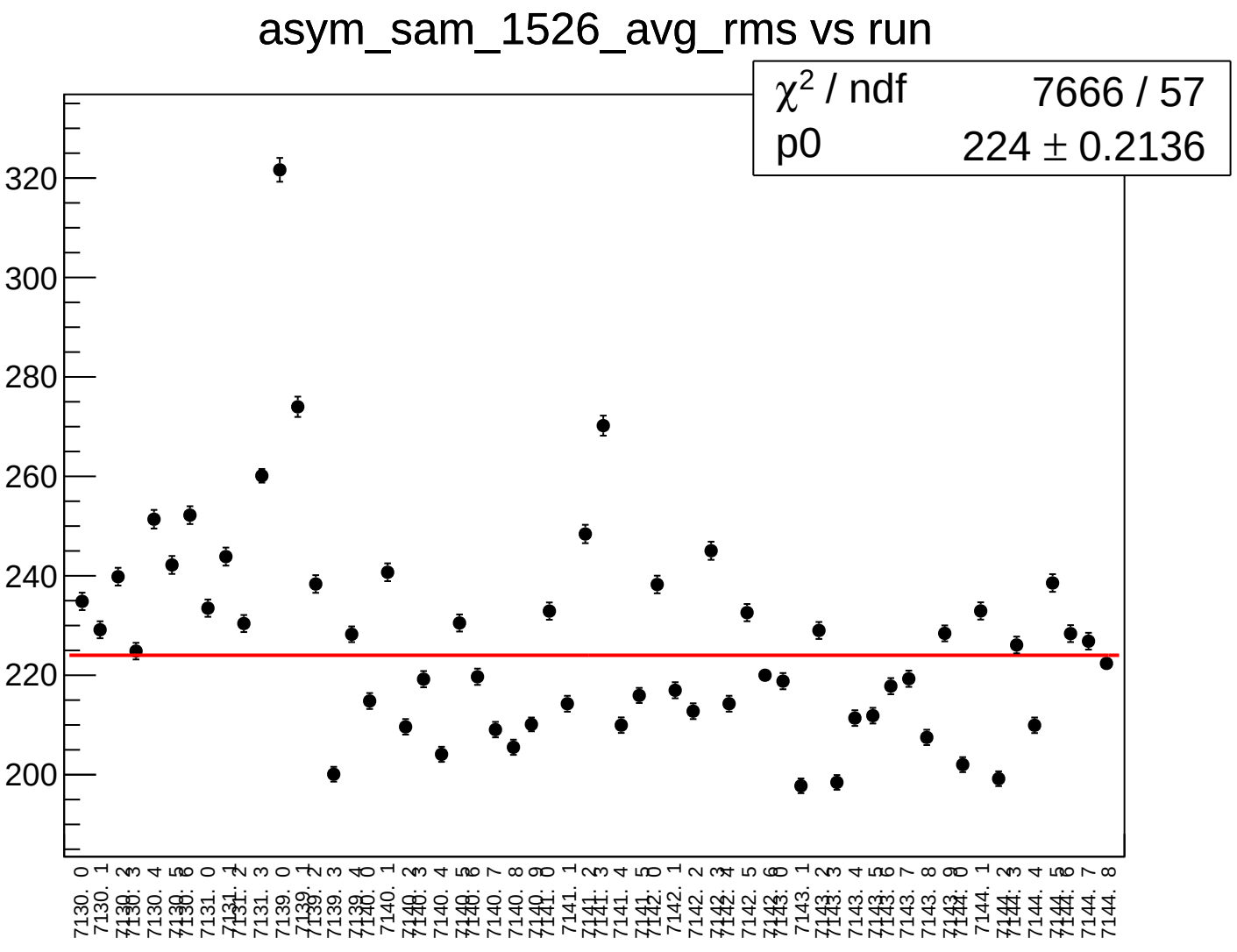

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 64.2 / 57
p0 536.5 ± 295.2
pull
Entries 58
Mean 566.8
Std Dev 535.9

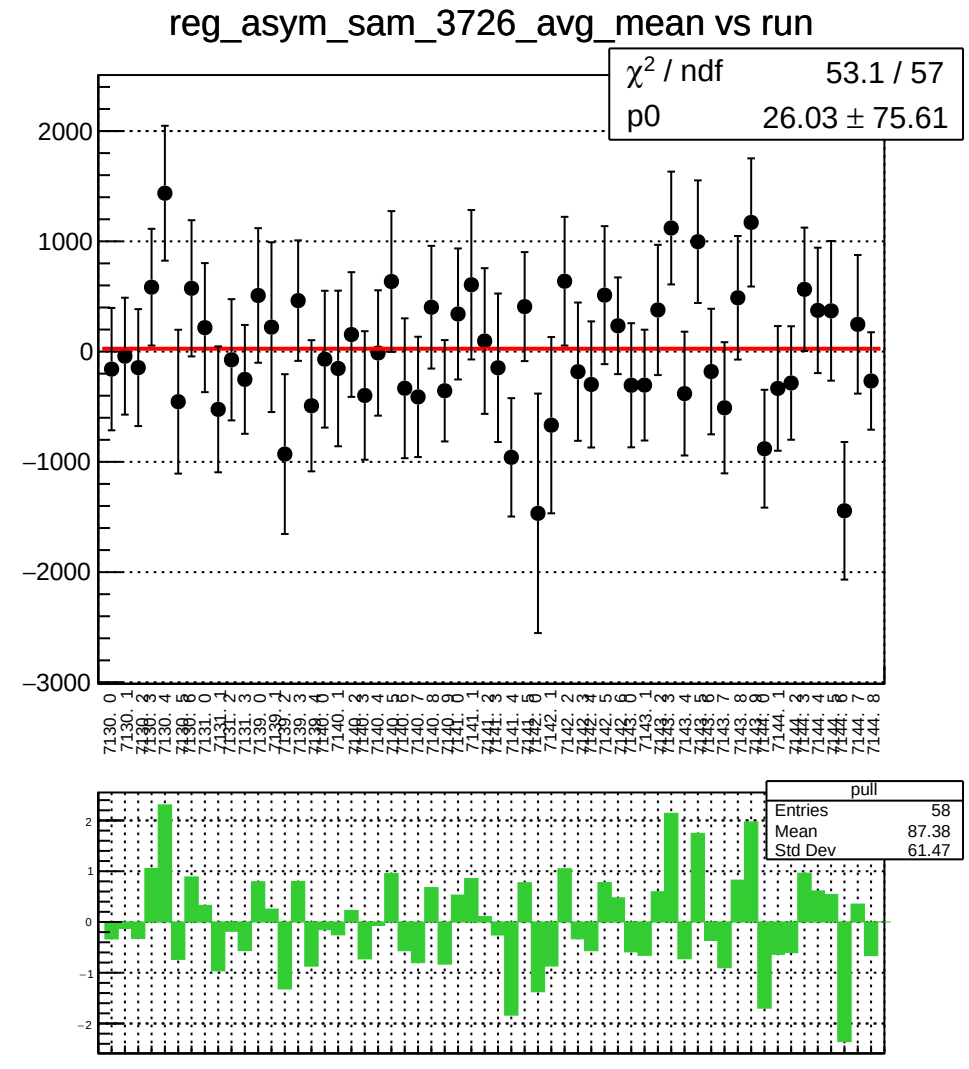

pull1D
Entries 58
Mean −0.009647
Std Dev 1.052

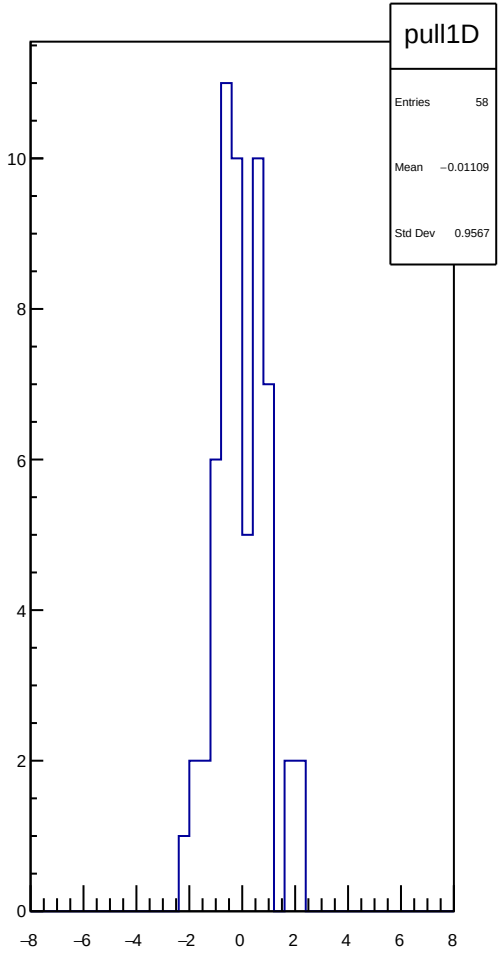

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 7843 / 57
p0 219 ± 0.2088
320
300
280
260
240
220
200
180

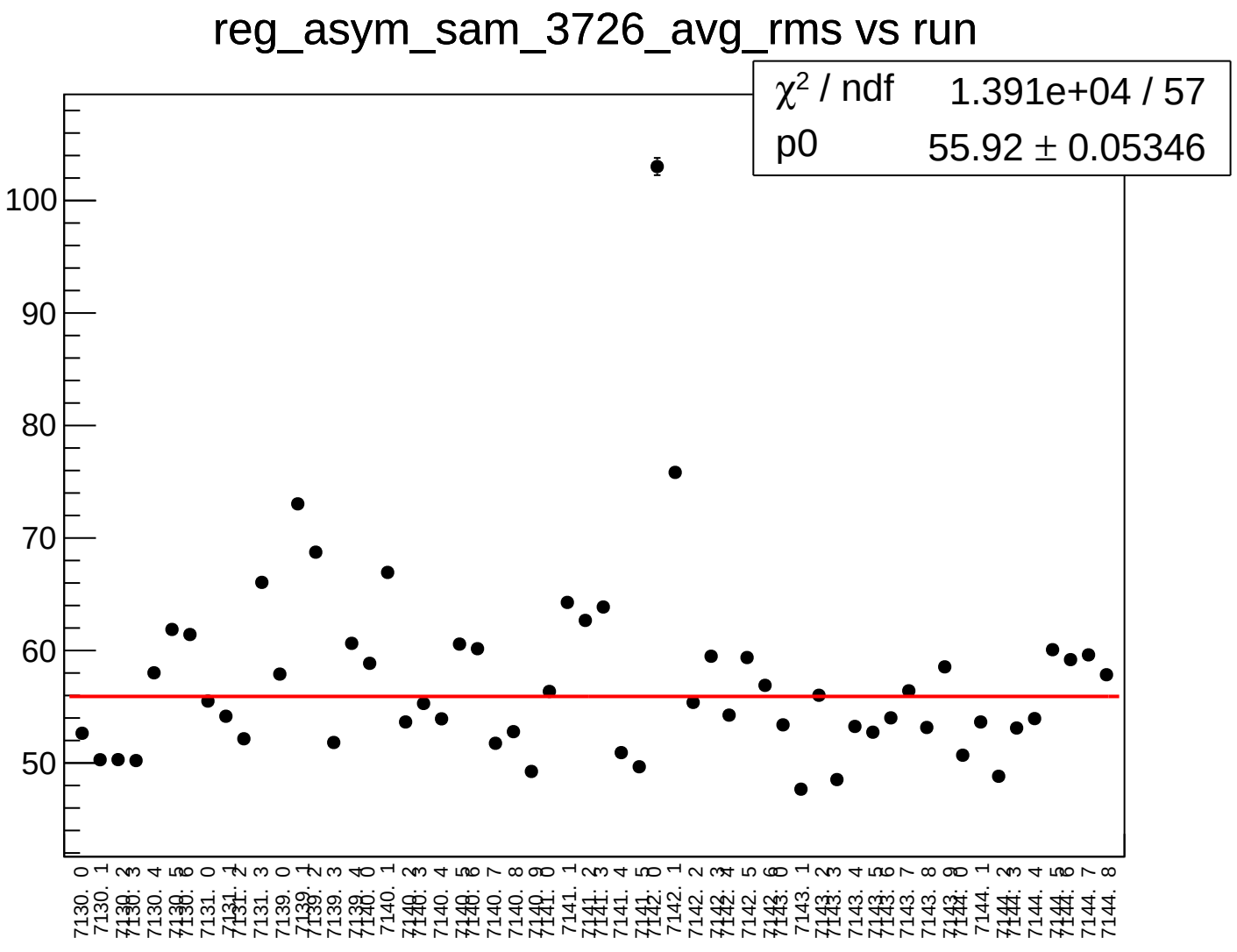

asym_sam_1526_avg_mean vs run
χ² / ndf 62.09 / 57
p0 −558.7 ± 302
pull
Entries 58
Mean 609.7
Std Dev 578.9

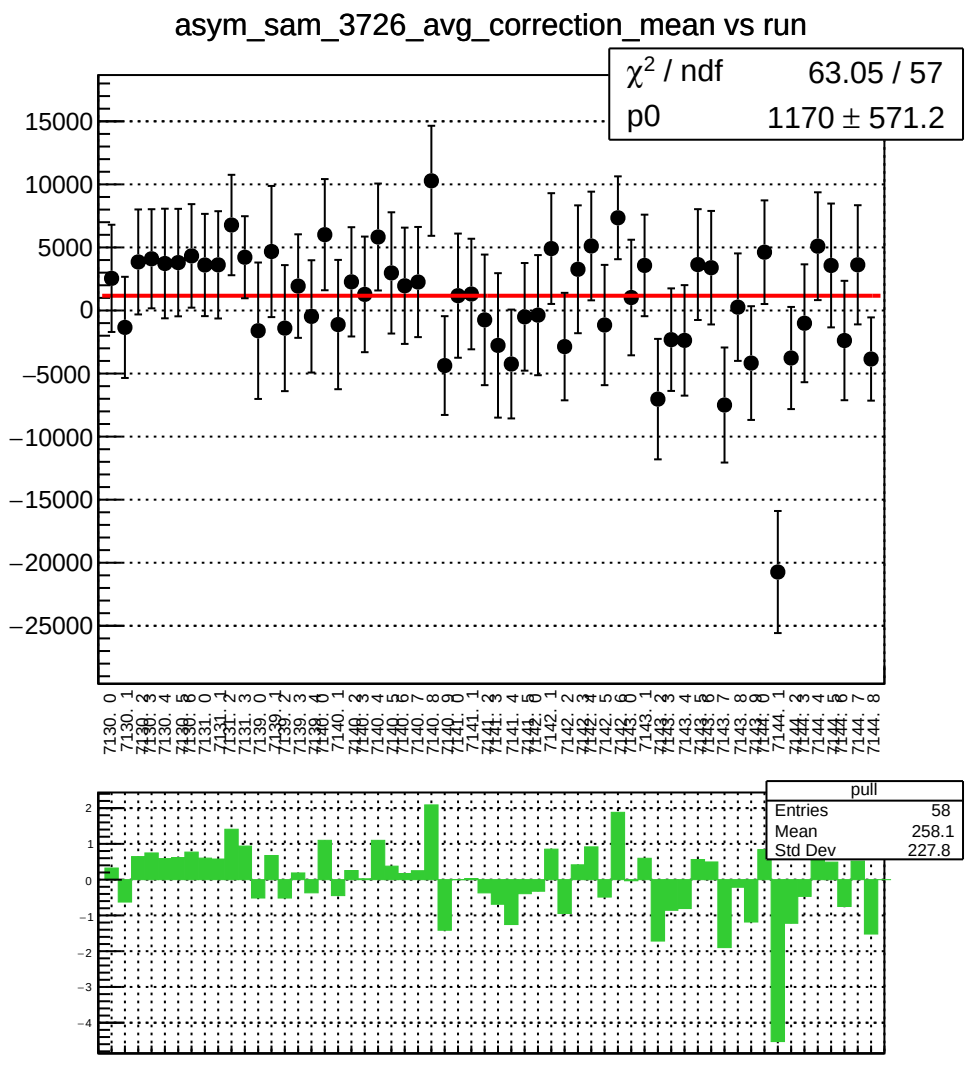

pull1D
Entries 58
Mean 0.008288
Std Dev 1.035

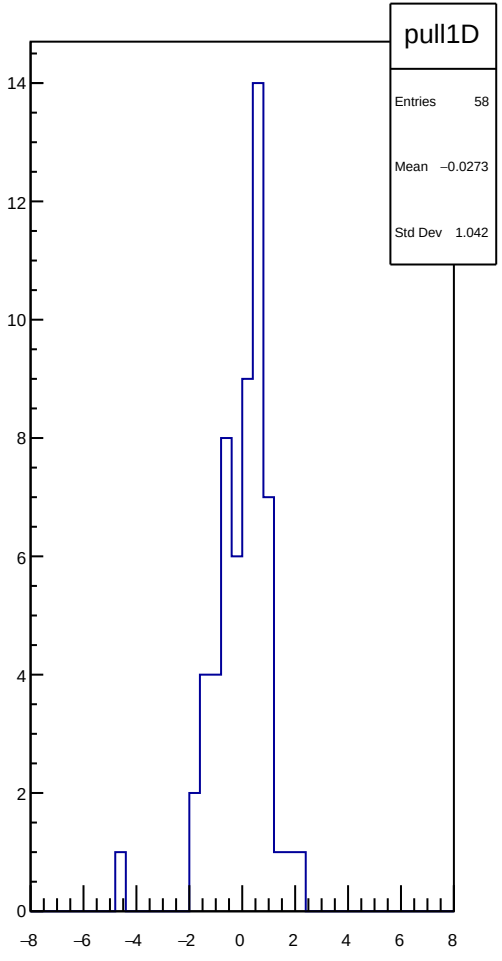

asym_sam_1526_avg_rms vs run
χ^2 / ndf 7666 / 57
p0 224 ± 0.2136
320
300
280
260
240
220
200
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

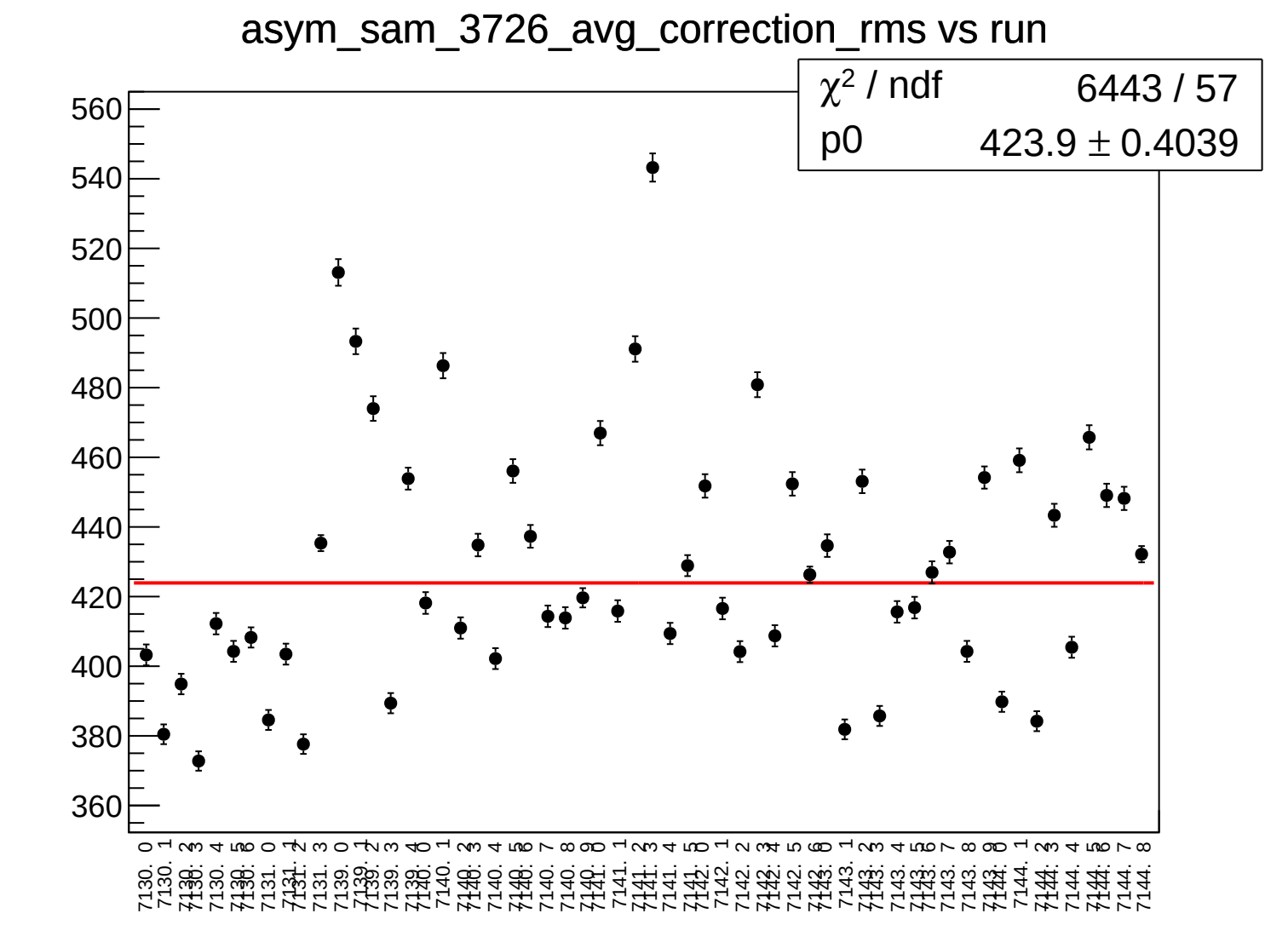

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 53.1 / 57
p0 26.03 ± 75.61
pull
Entries 58
Mean 87.38
Std Dev 61.47

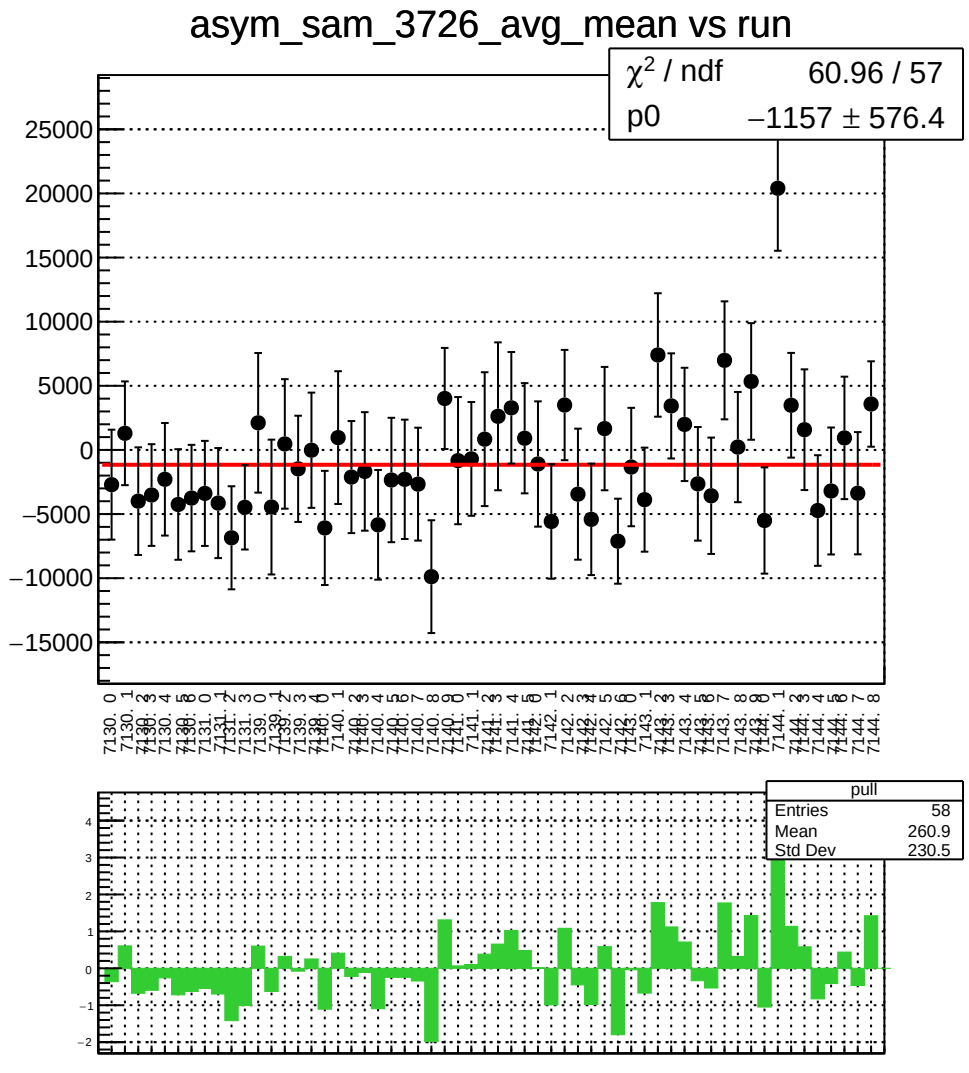

pull1D
Entries 58
Mean −0.01109
Std Dev 0.9567

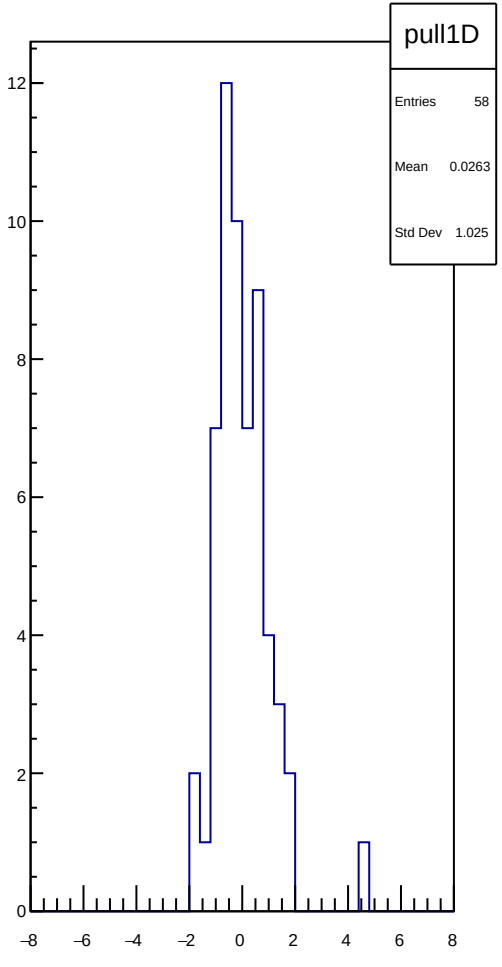

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.391e+04 / 57
p0 55.92 ± 0.05346
100
90
80
70
60
50

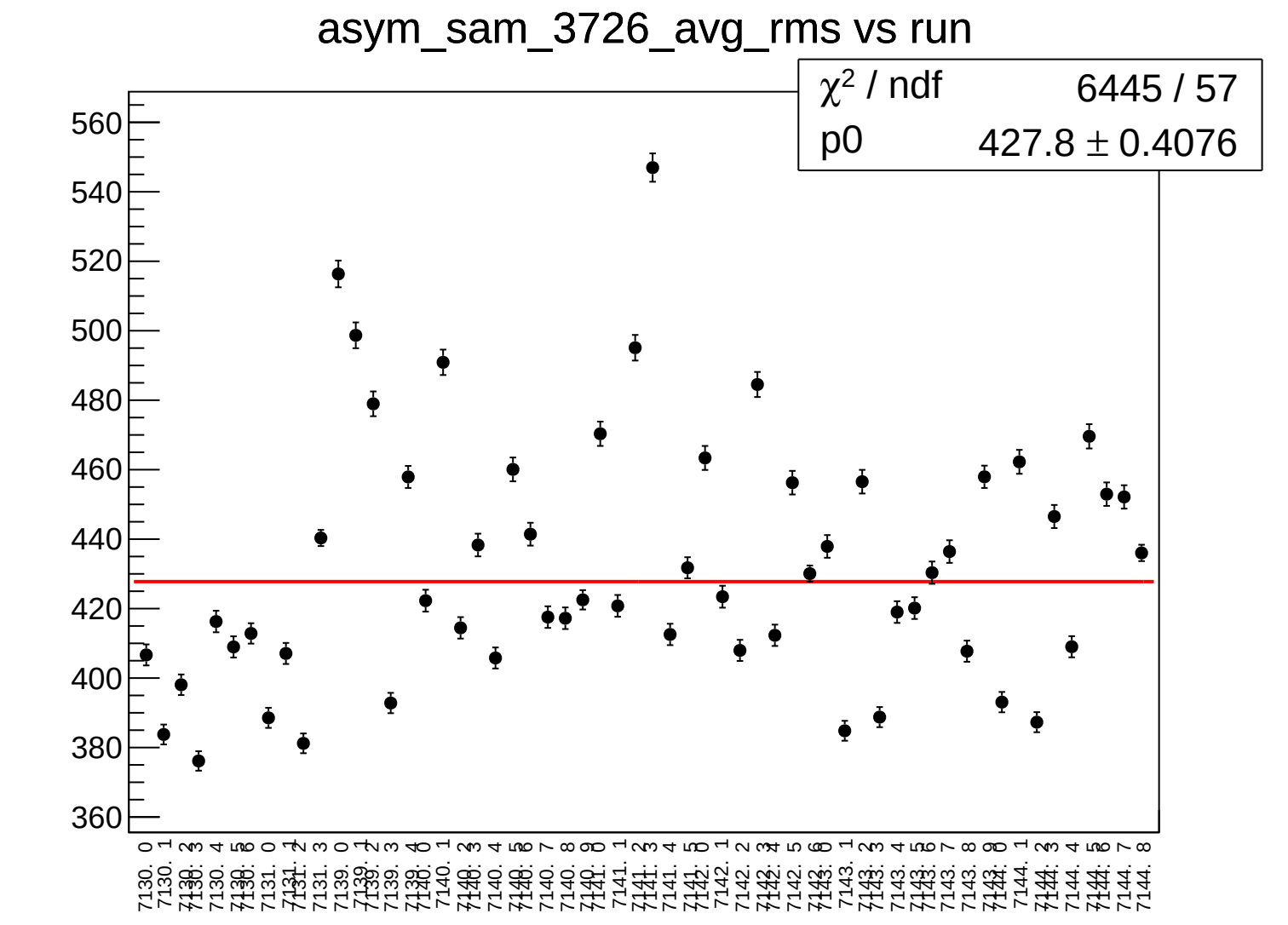

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 63.05 / 57
p0 1170 ± 571.2
pull
Entries 58
Mean 258.1
Std Dev 227.8

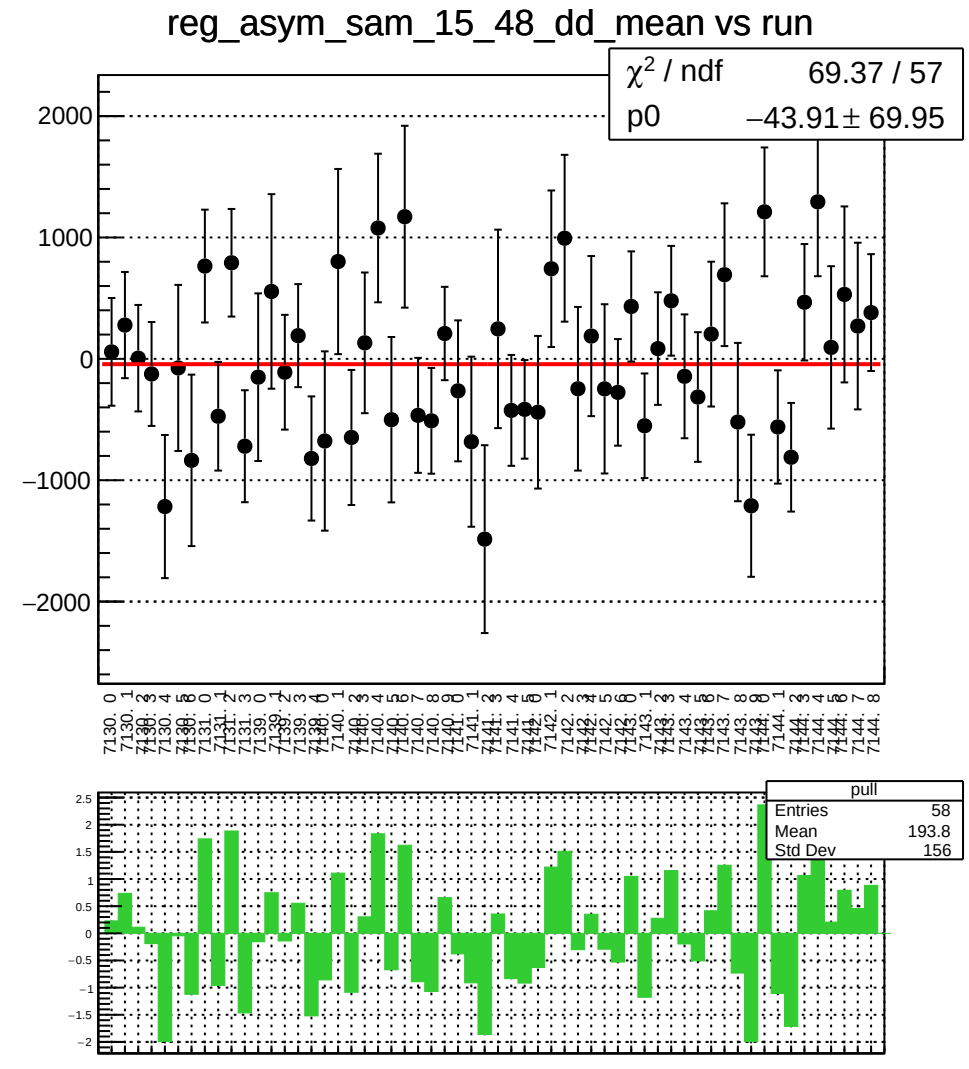

pull1D
Entries 58
Mean −0.0273
Std Dev 1.042

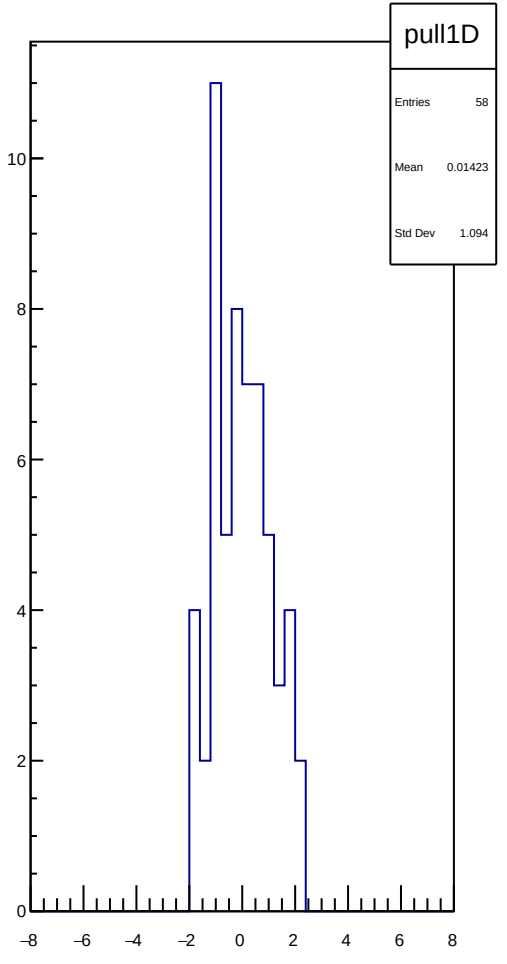

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 6443 / 57
p0 423.9 ± 0.4039
560
540
520
500
480
460
440
420
400
380
360

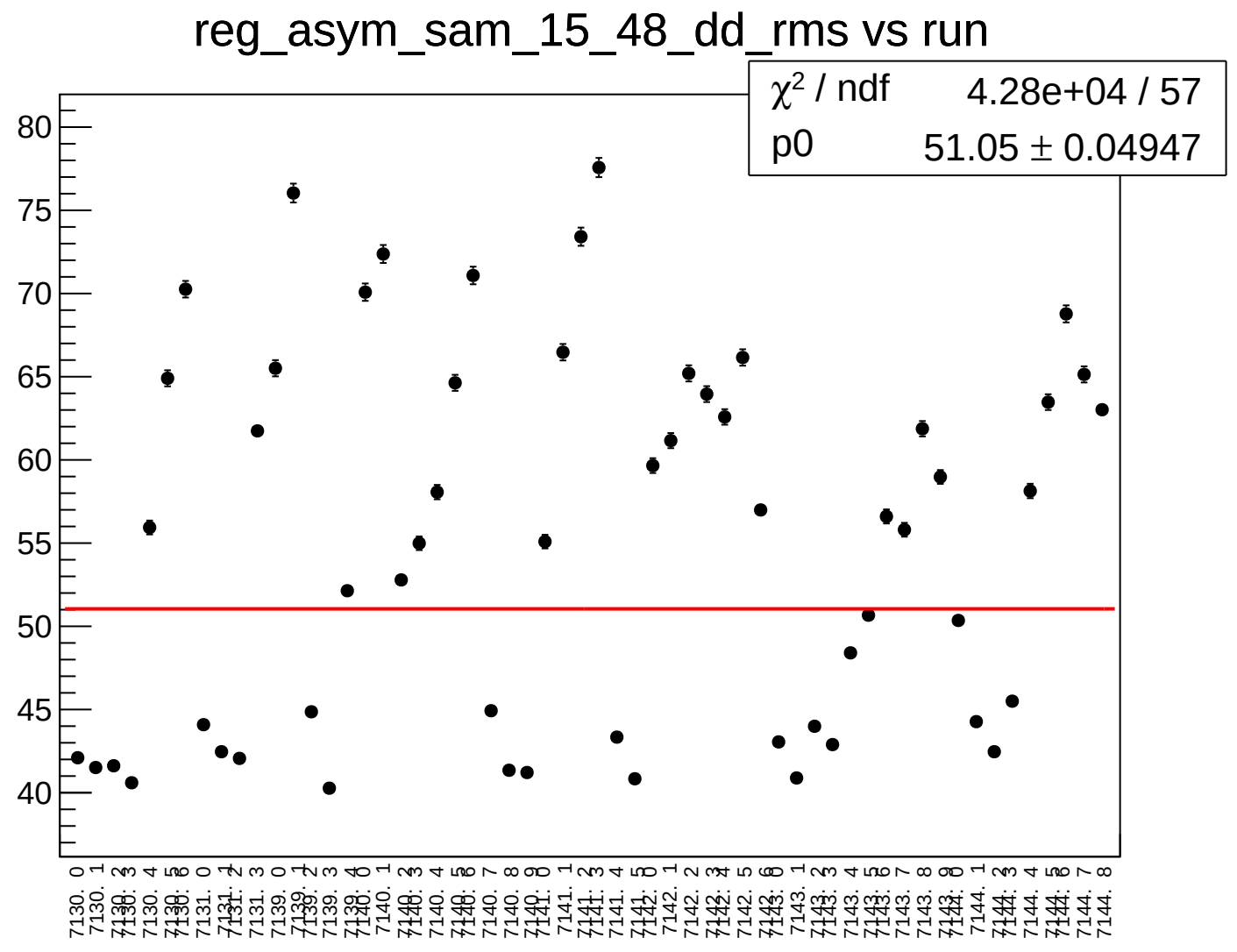

asym_sam_3726_avg_mean vs run
χ² / ndf 60.96 / 57
p0 −1157 ± 576.4
pull
Entries 58
Mean 260.9
Std Dev 230.5

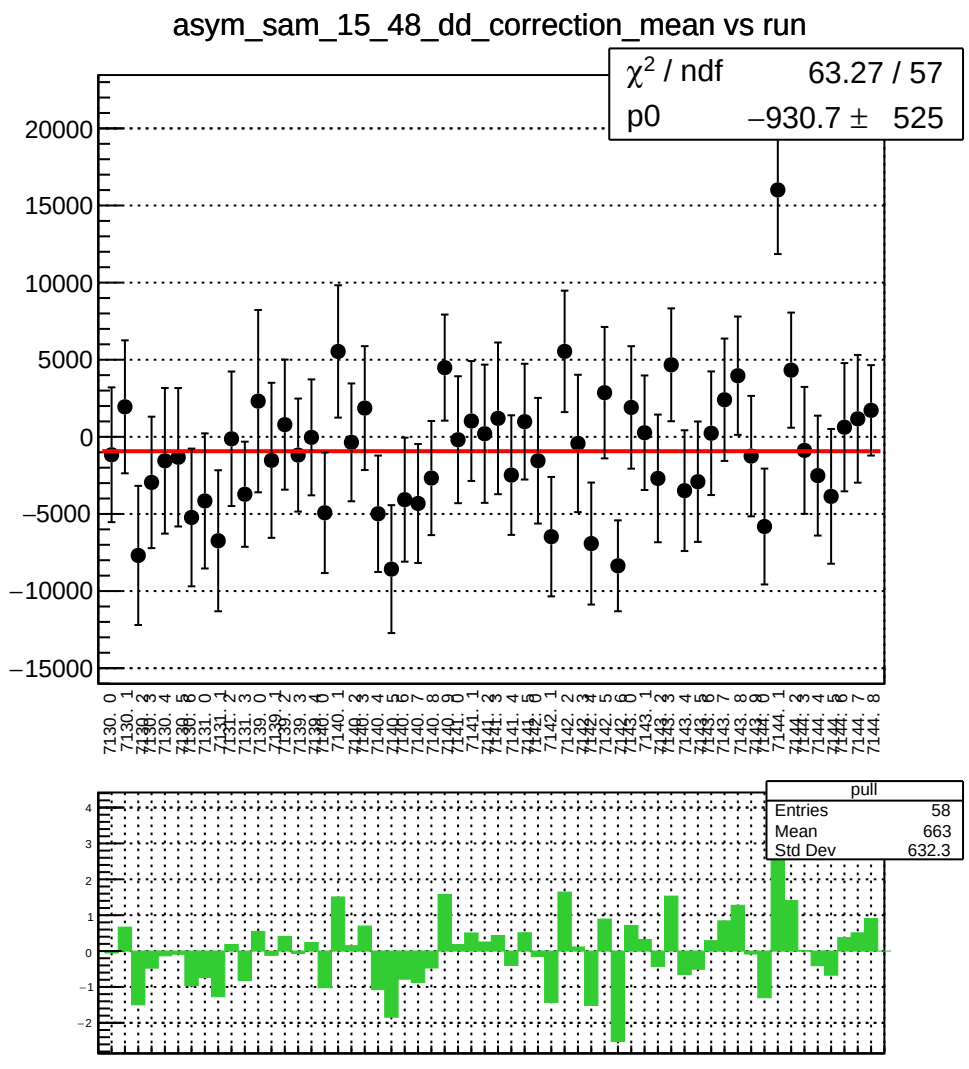

pull1D
Entries 58
Mean 0.0263
Std Dev 1.025

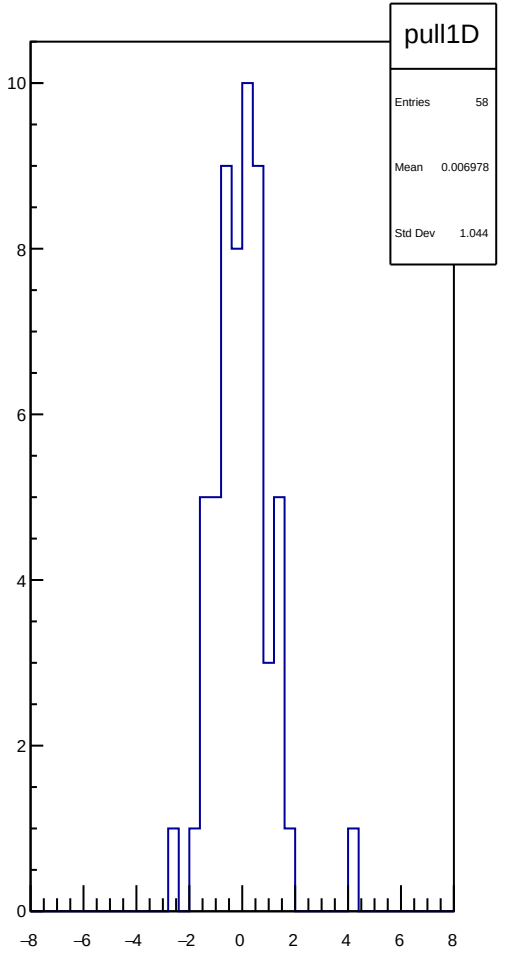

asym_sam_3726_avg_rms vs run
χ² / ndf 6445 / 57
p0 427.8 ± 0.4076
560
540
520
500
480
460
440
420
400
380
360
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

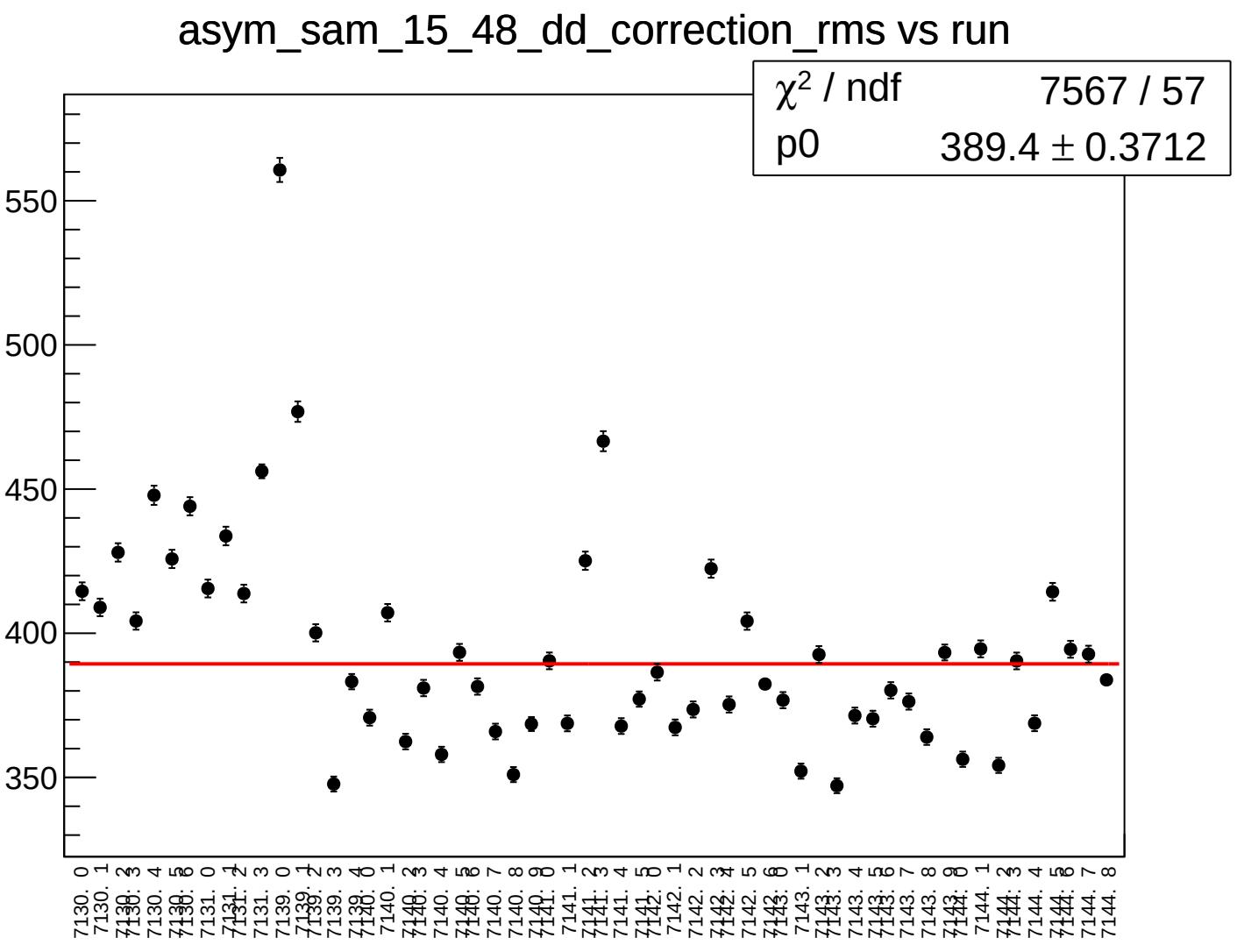

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 69.37 / 57
p0 −43.91 ± 69.95
2000
1000
0
−1000
−2000
pull
Entries 58
Mean 193.8
Std Dev 156
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

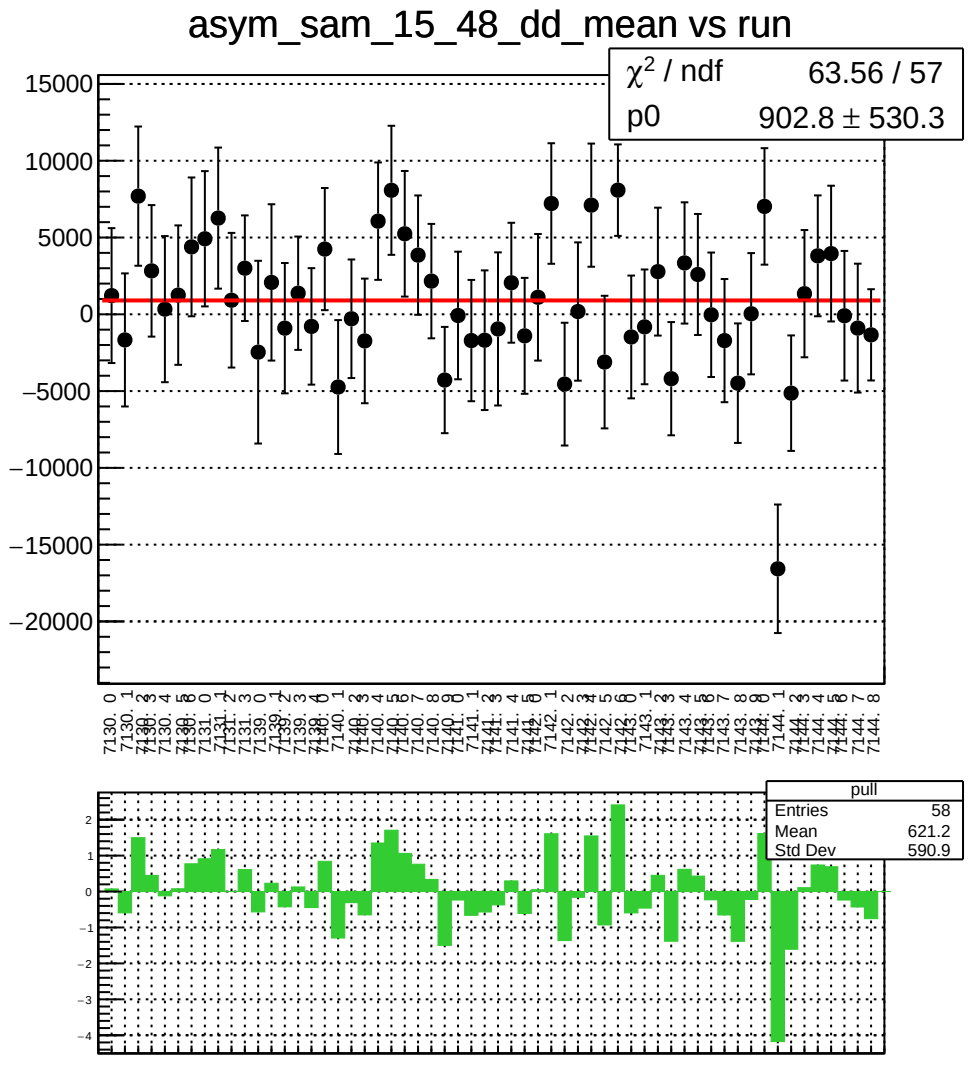

pull1D
Entries 58
Mean 0.01423
Std Dev 1.094
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

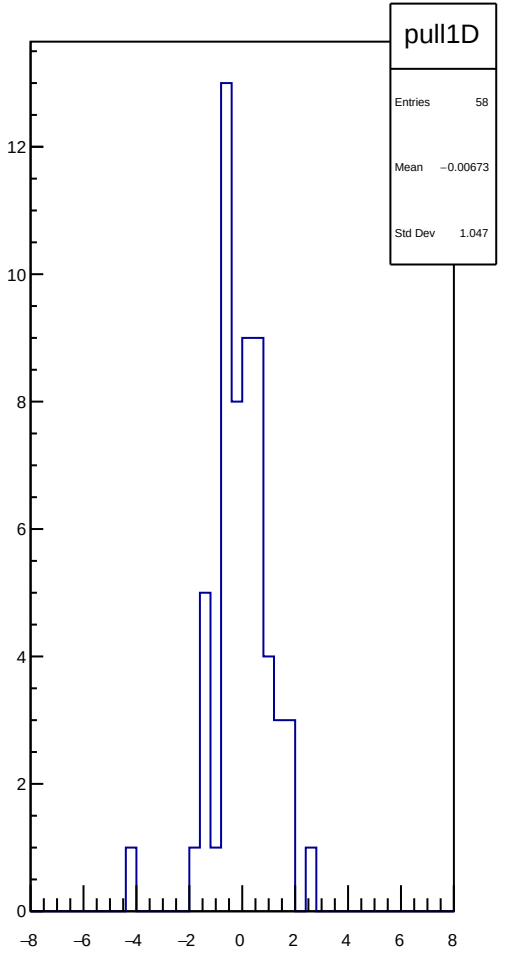

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 4.28e+04 / 57
p0 51.05 ± 0.04947
80
75
70
65
60
55
50
45
40

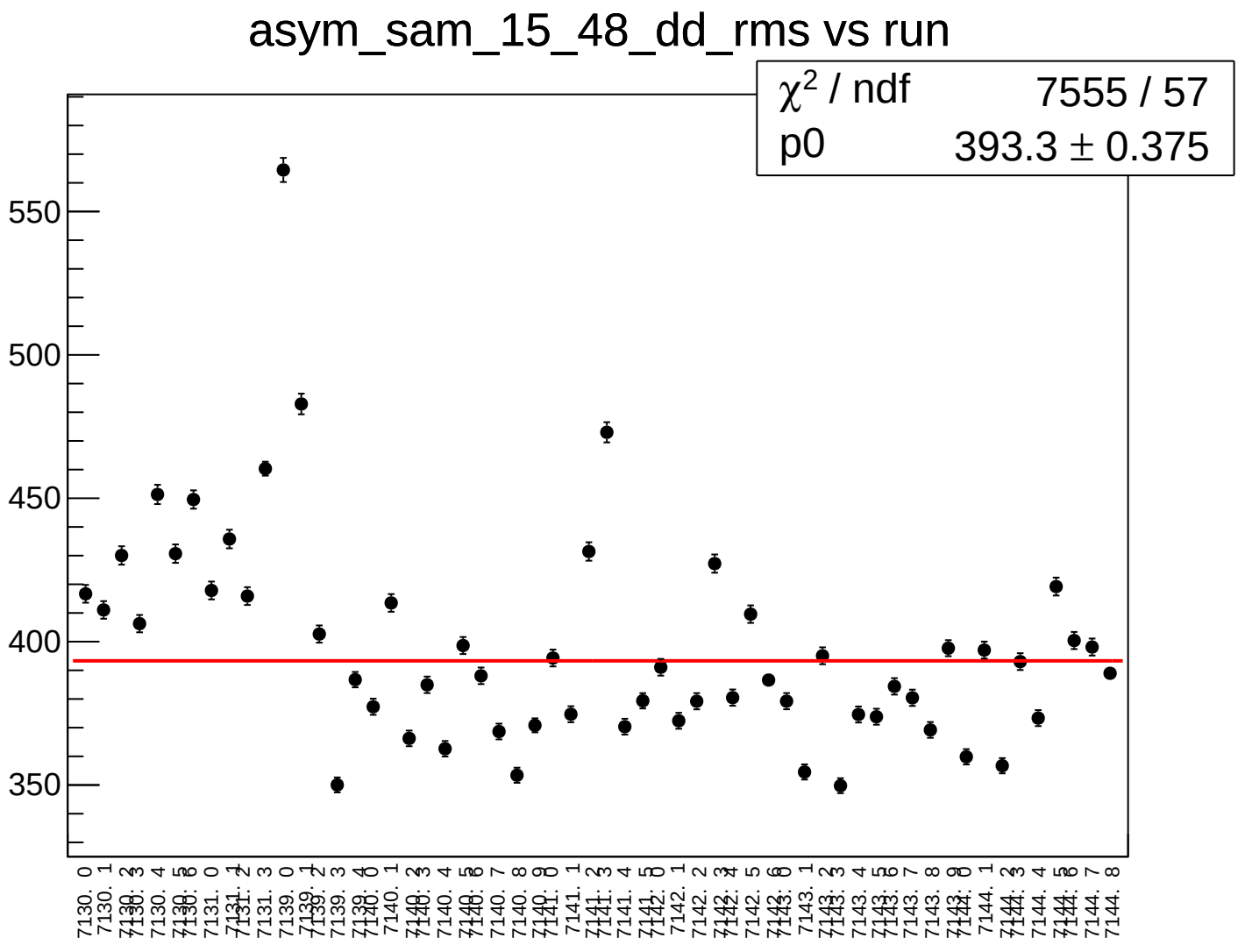

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 63.27 / 57
p0 −930.7 ± 525
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 58
Mean 663
Std Dev 632.3
4
3
2
1
0
−1
−2

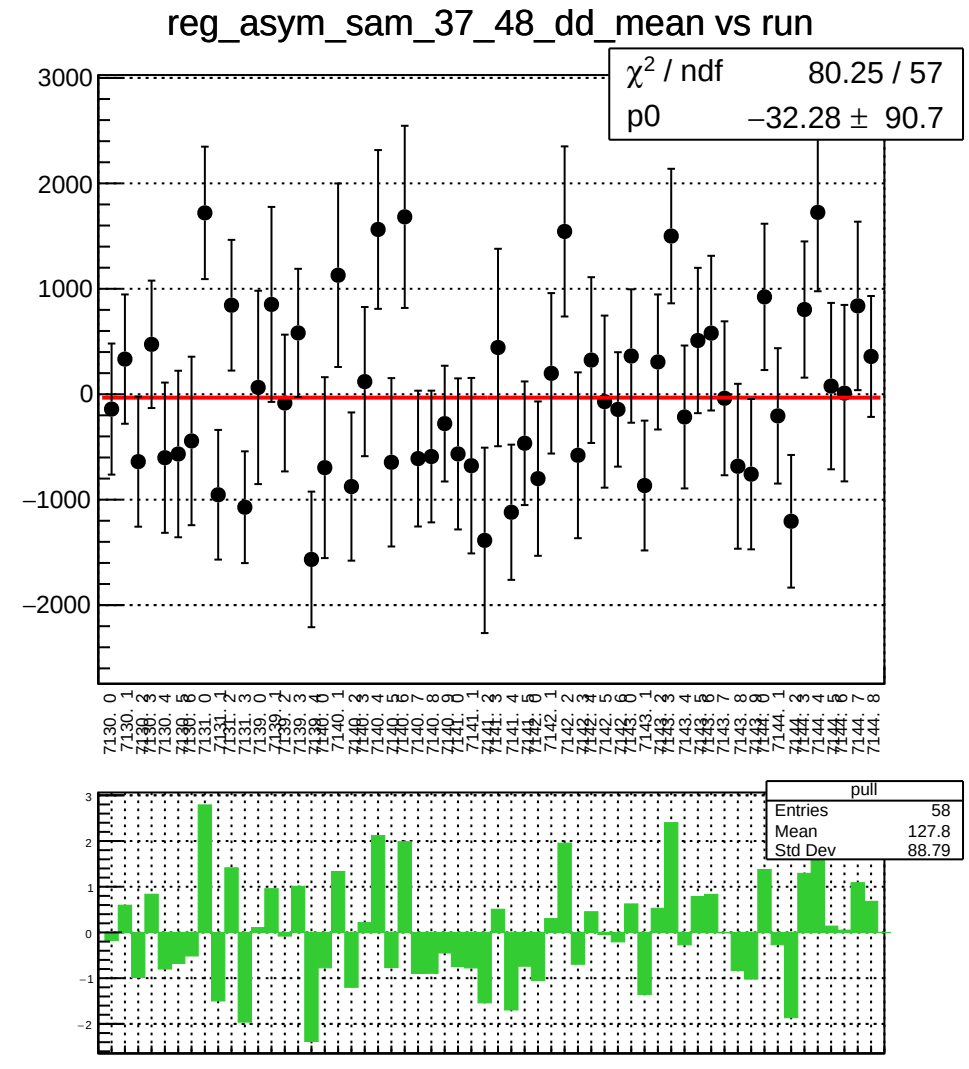

pull1D
Entries 58
Mean 0.006978
Std Dev 1.044
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

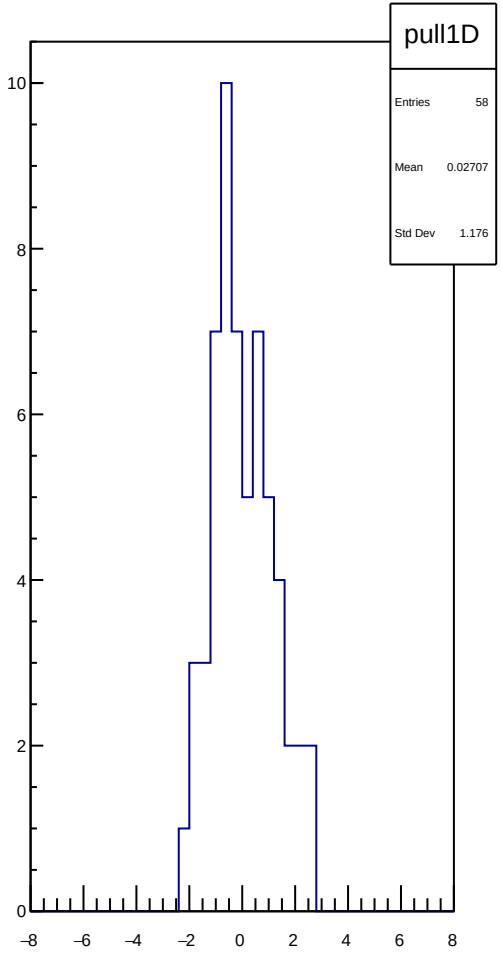

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 7567 / 57
p0 389.4 ± 0.3712
550
500
450
400
350

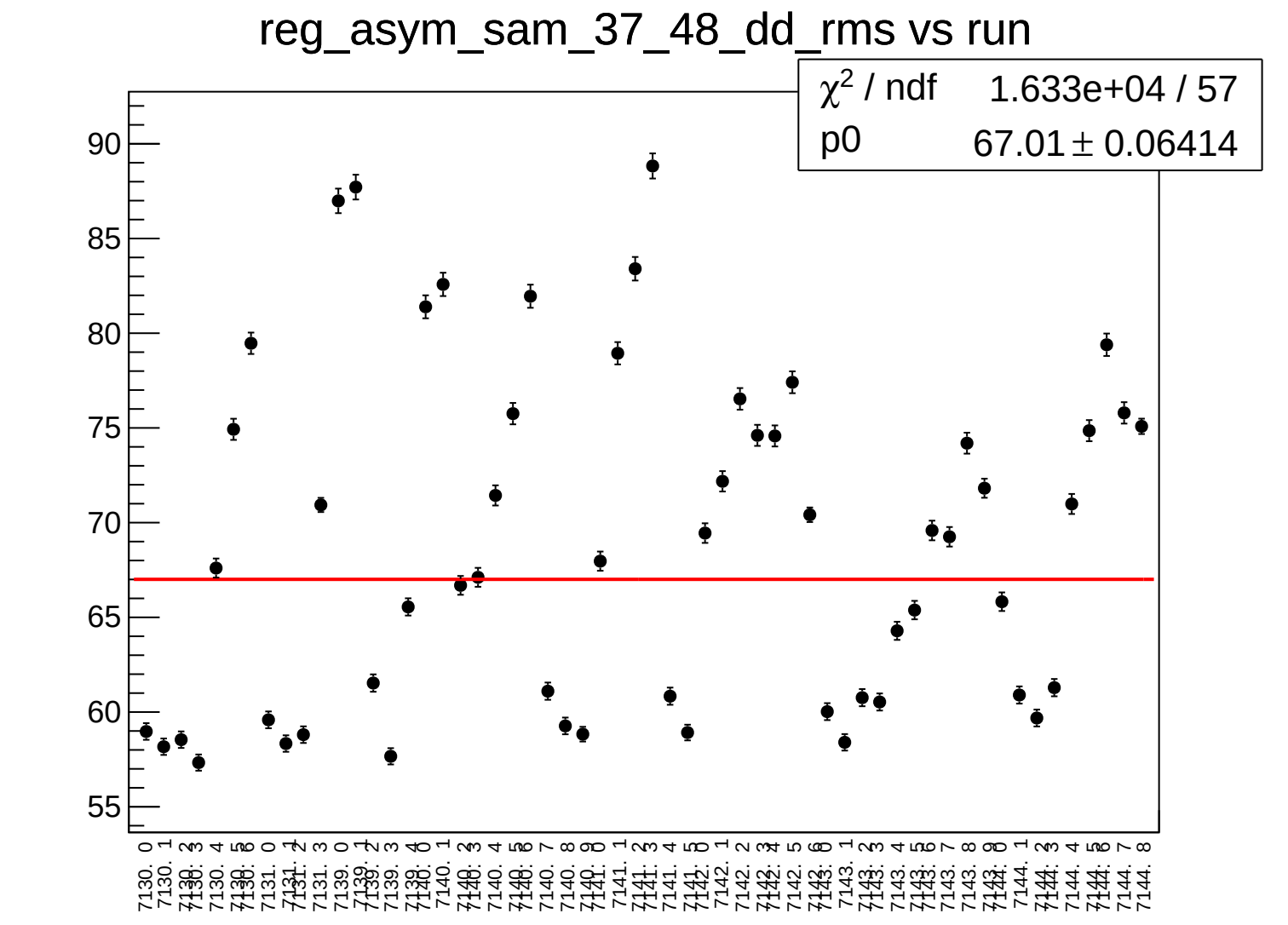

asym_sam_15_48_dd_mean vs run
χ² / ndf 63.56 / 57
p0 902.8 ± 530.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 58
Mean 621.2
Std Dev 590.9
2
1
0
−1
−2
−3
−4

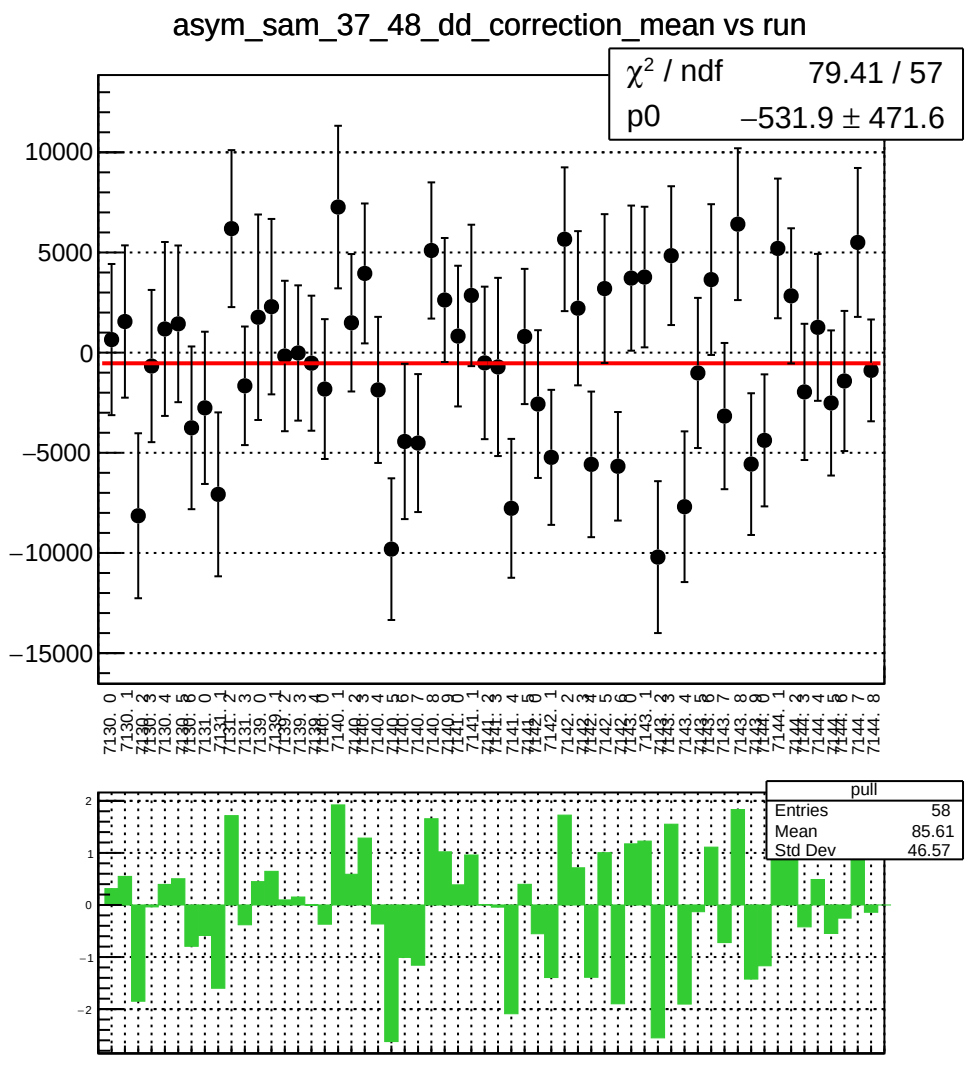

pull1D
Entries 58
Mean −0.00673
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

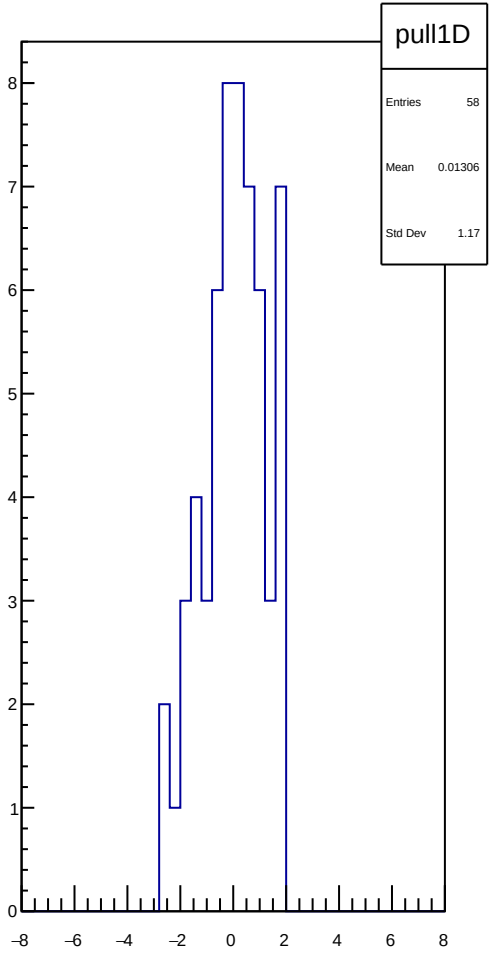

asym_sam_15_48_dd_rms vs run
χ^2 / ndf 7555 / 57
p0 393.3 ± 0.375
550
500
450
400
350

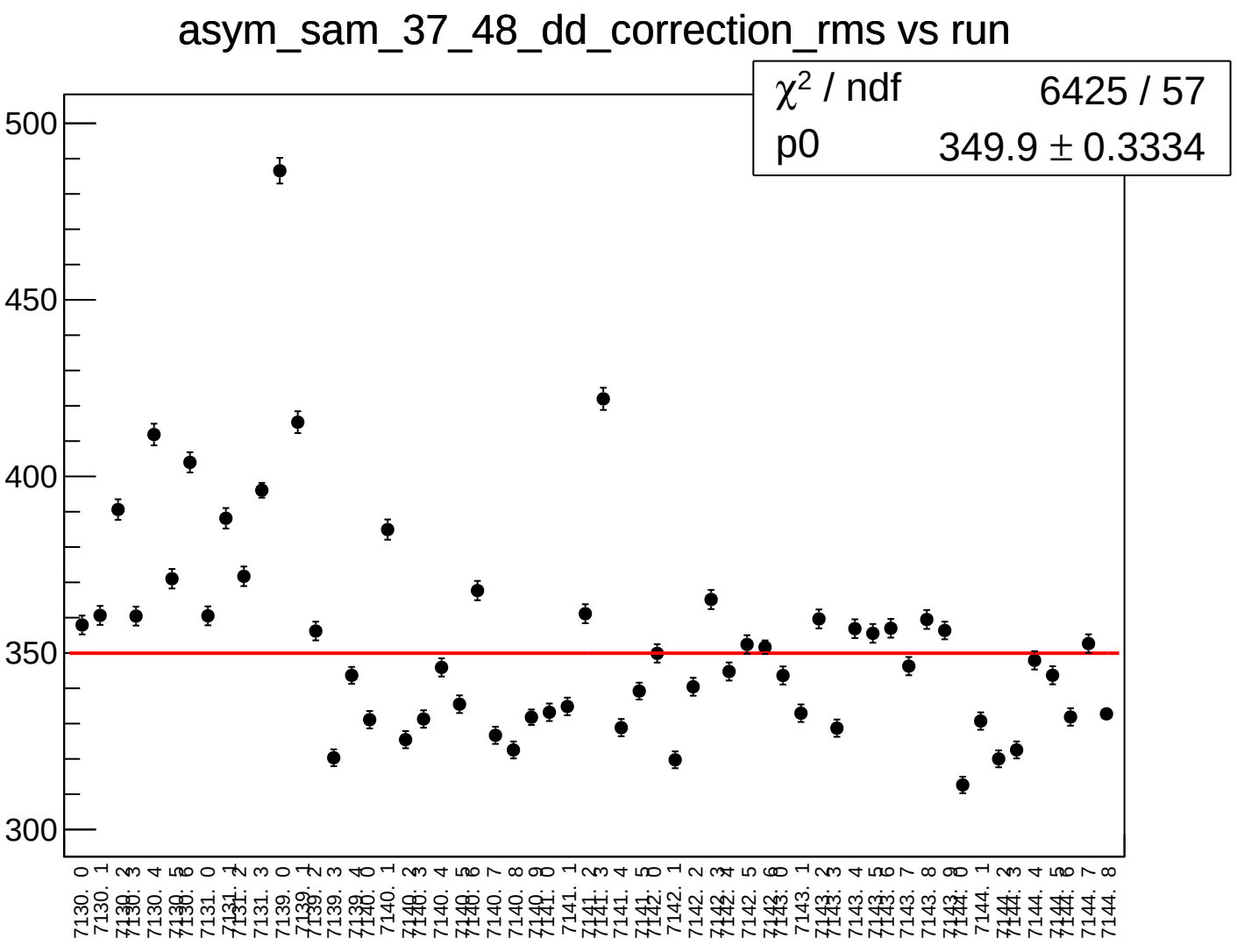

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 80.25 / 57
p0 −32.28 ± 90.7
pull
Entries 58
Mean 127.8
Std Dev 88.79

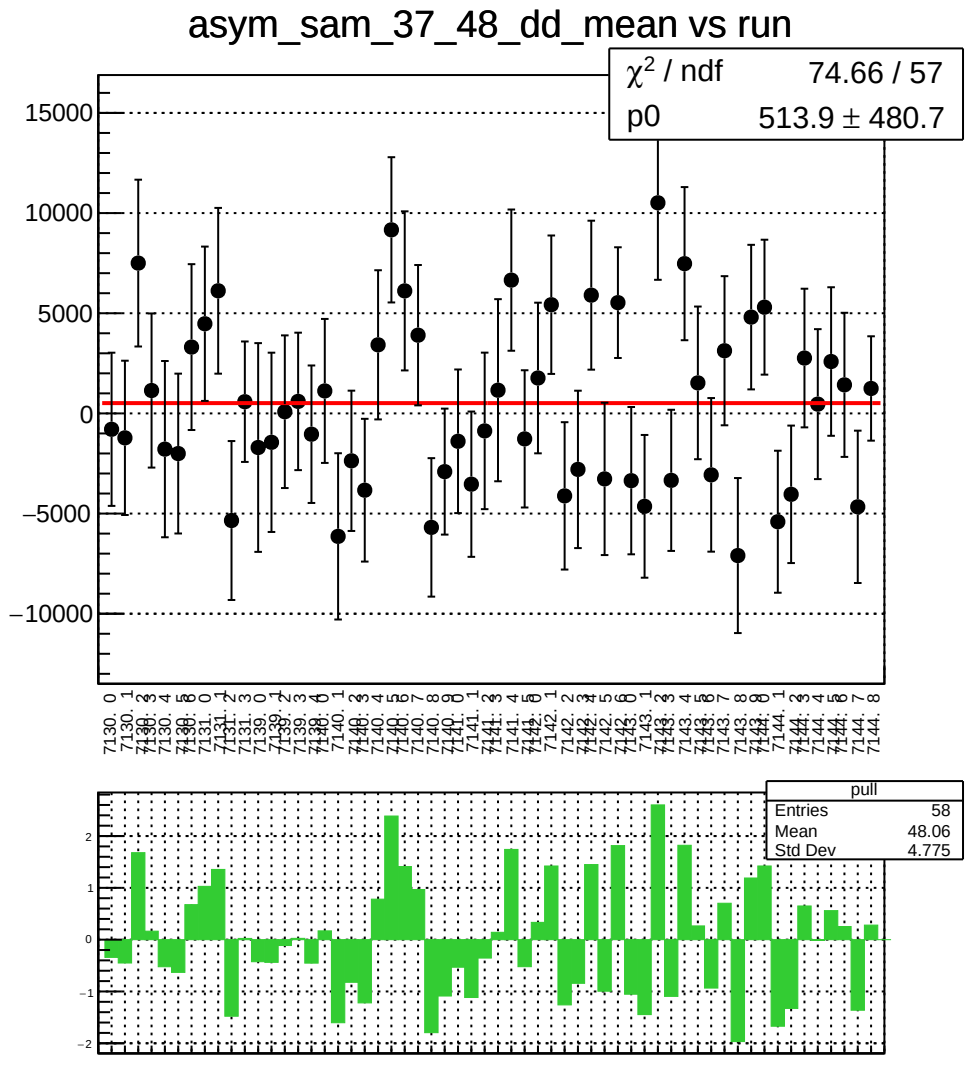

pull1D
Entries 58
Mean 0.02707
Std Dev 1.176

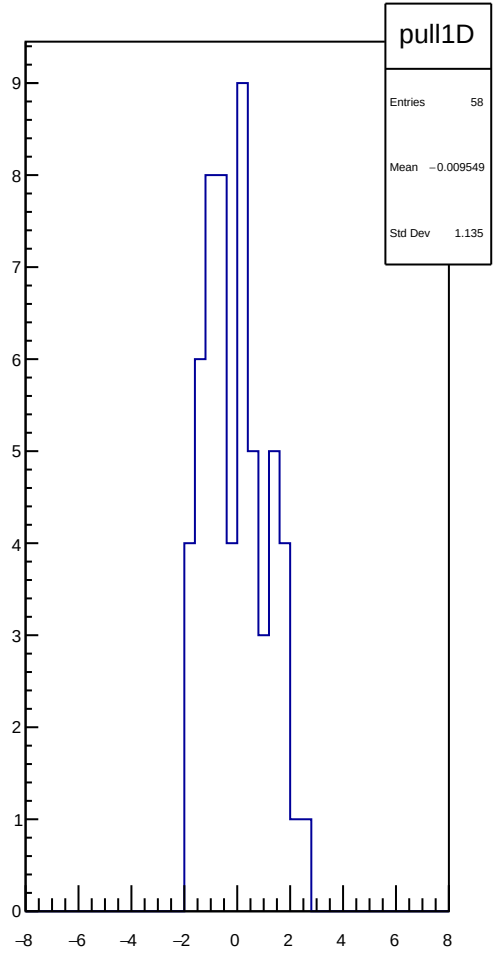

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.633e+04 / 57
p0 67.01 ± 0.06414
90
85
80
75
70
65
60
55

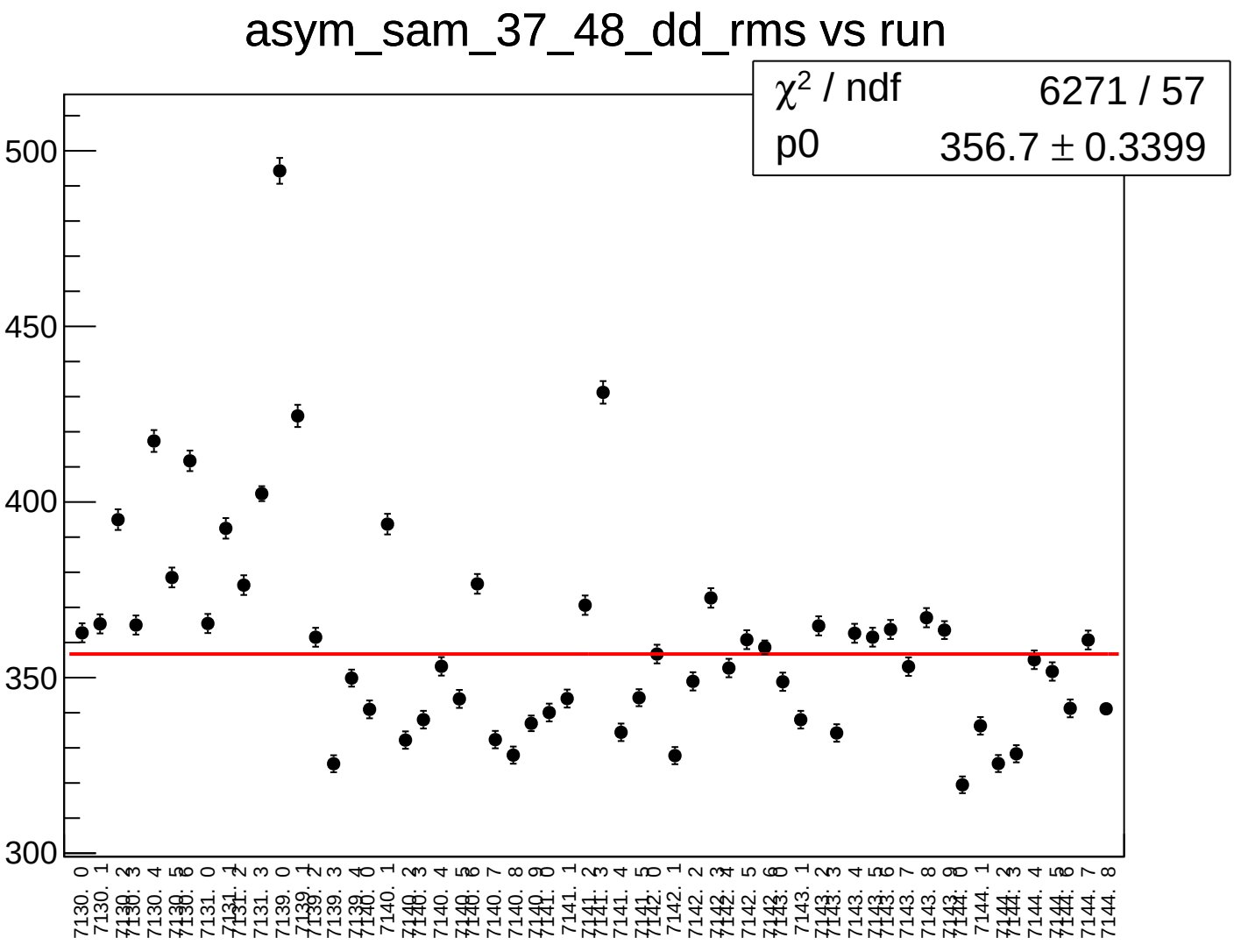

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 79.41 / 57
p0 −531.9 ± 471.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 58
Mean 85.61
Std Dev 46.57
2
1
0
−1
−2

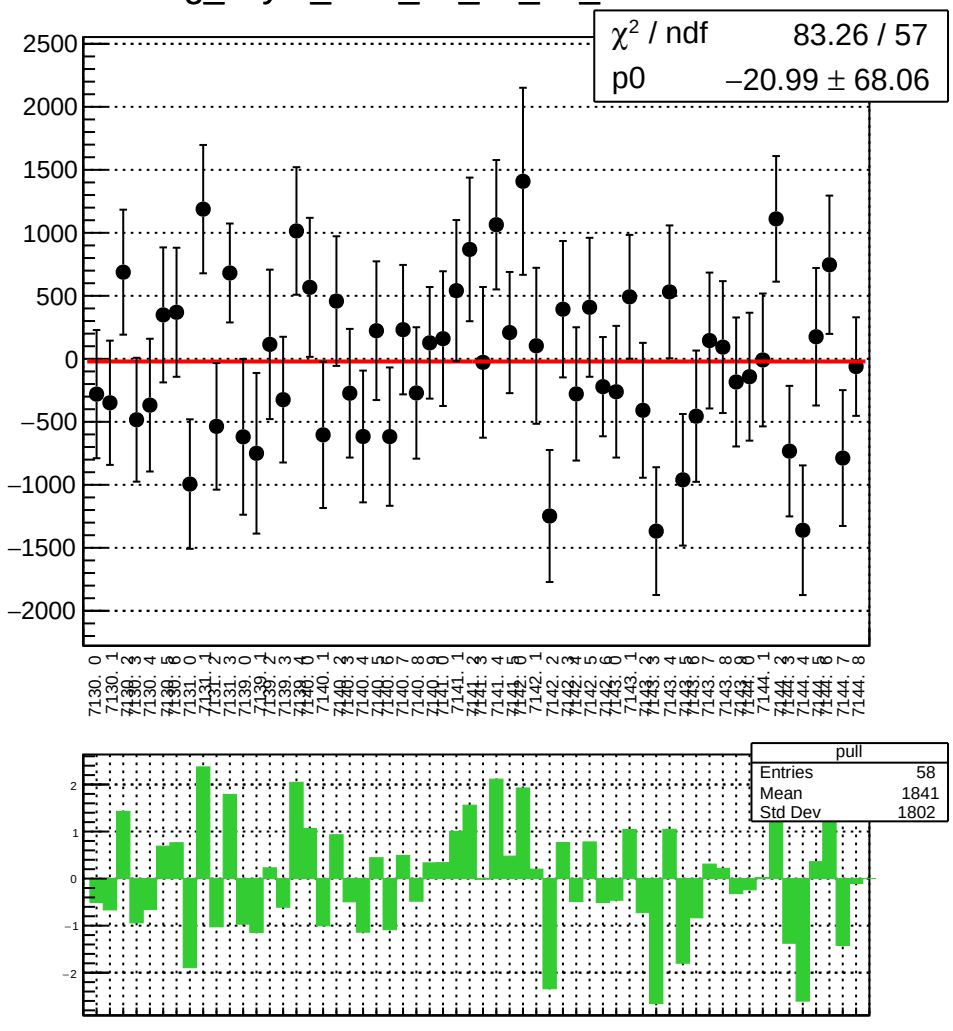

pull1D
Entries 58
Mean 0.01306
Std Dev 1.17
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

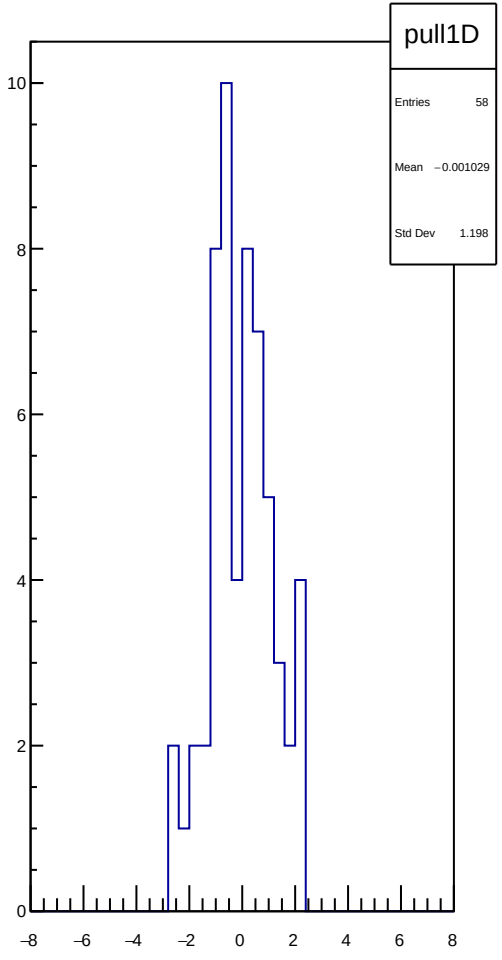

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 6425 / 57
p0 349.9 ± 0.3334
500
450
400
350
300

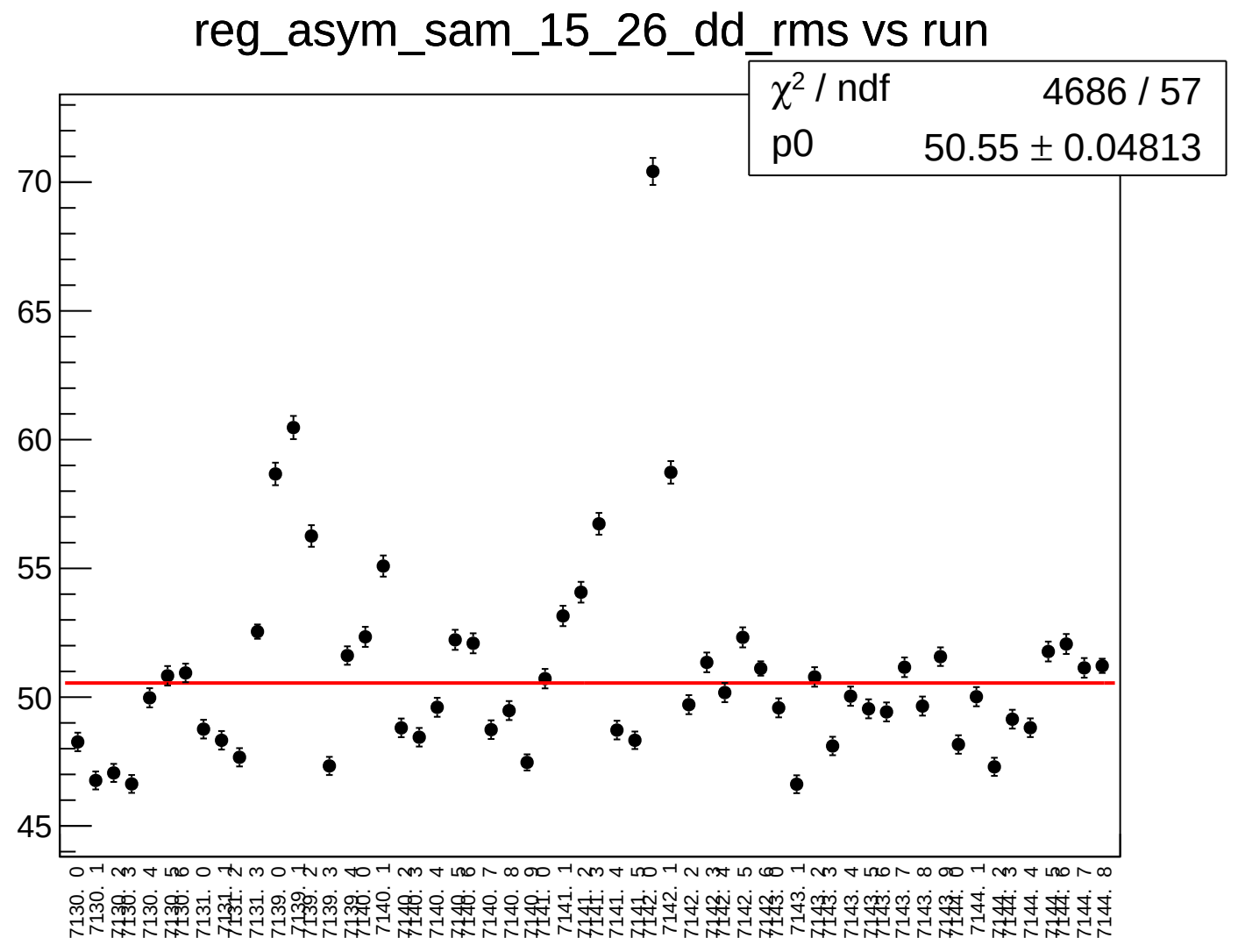

asym_sam_37_48_dd_mean vs run
χ² / ndf 74.66 / 57
p0 513.9 ± 480.7
15000
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 48.06
Std Dev 4.775
2
1
0
−1
−2

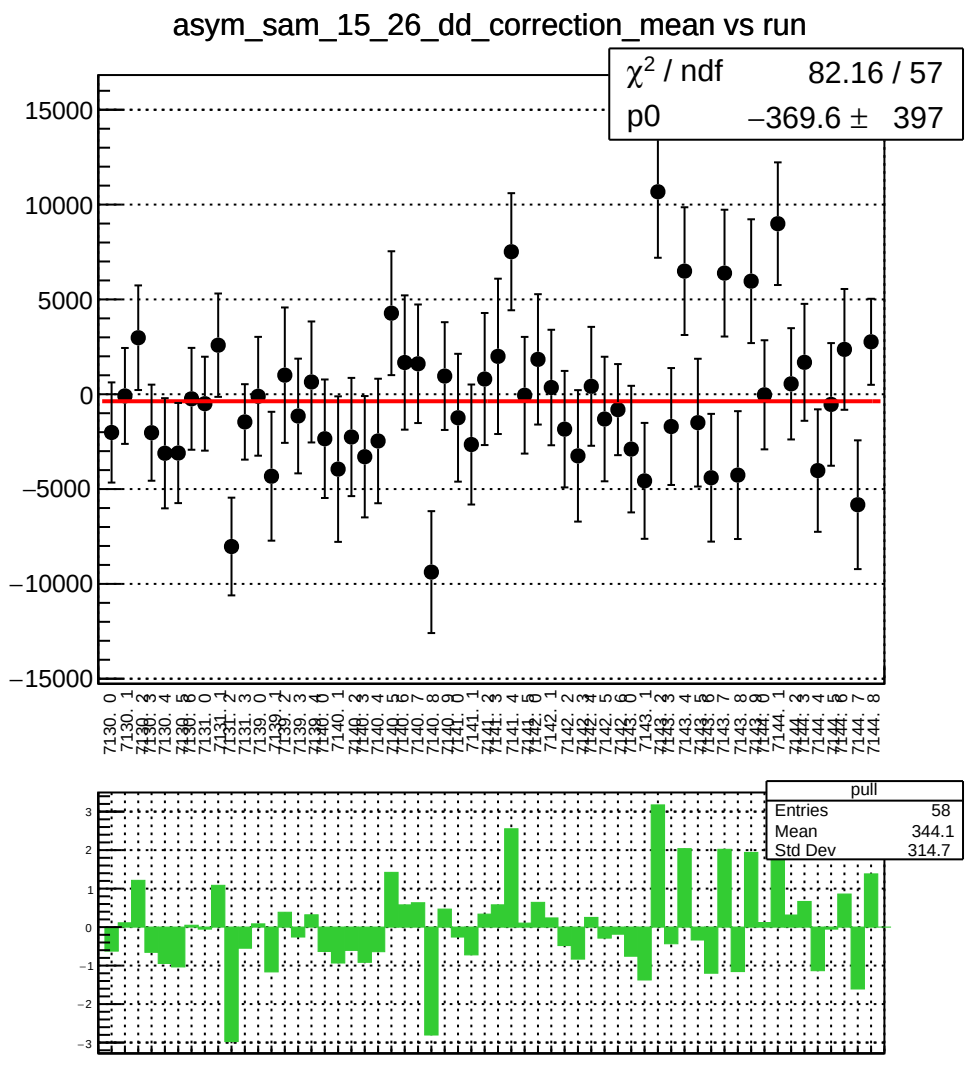

pull1D
Entries 58
Mean −0.009549
Std Dev 1.135
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

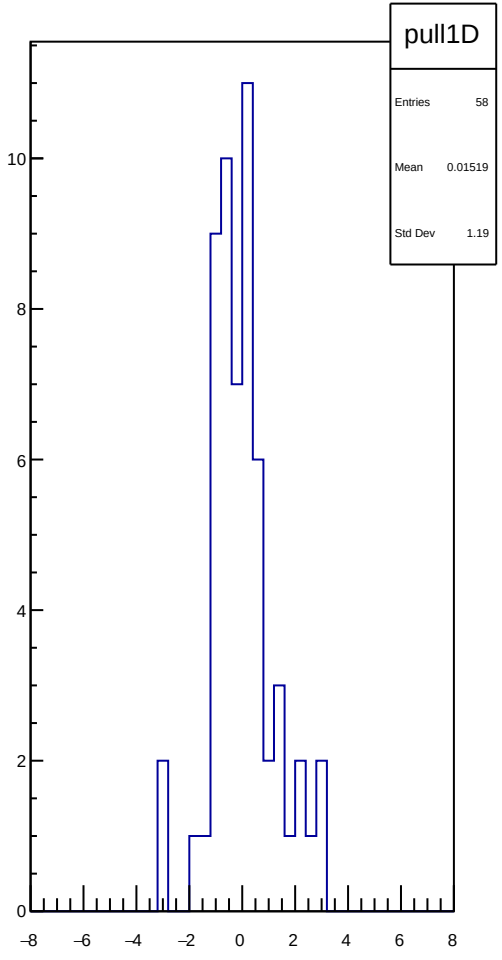

asym_sam_37_48_dd_rms vs run
χ² / ndf 6271 / 57
p0 356.7 ± 0.3399
500
450
400
350
300

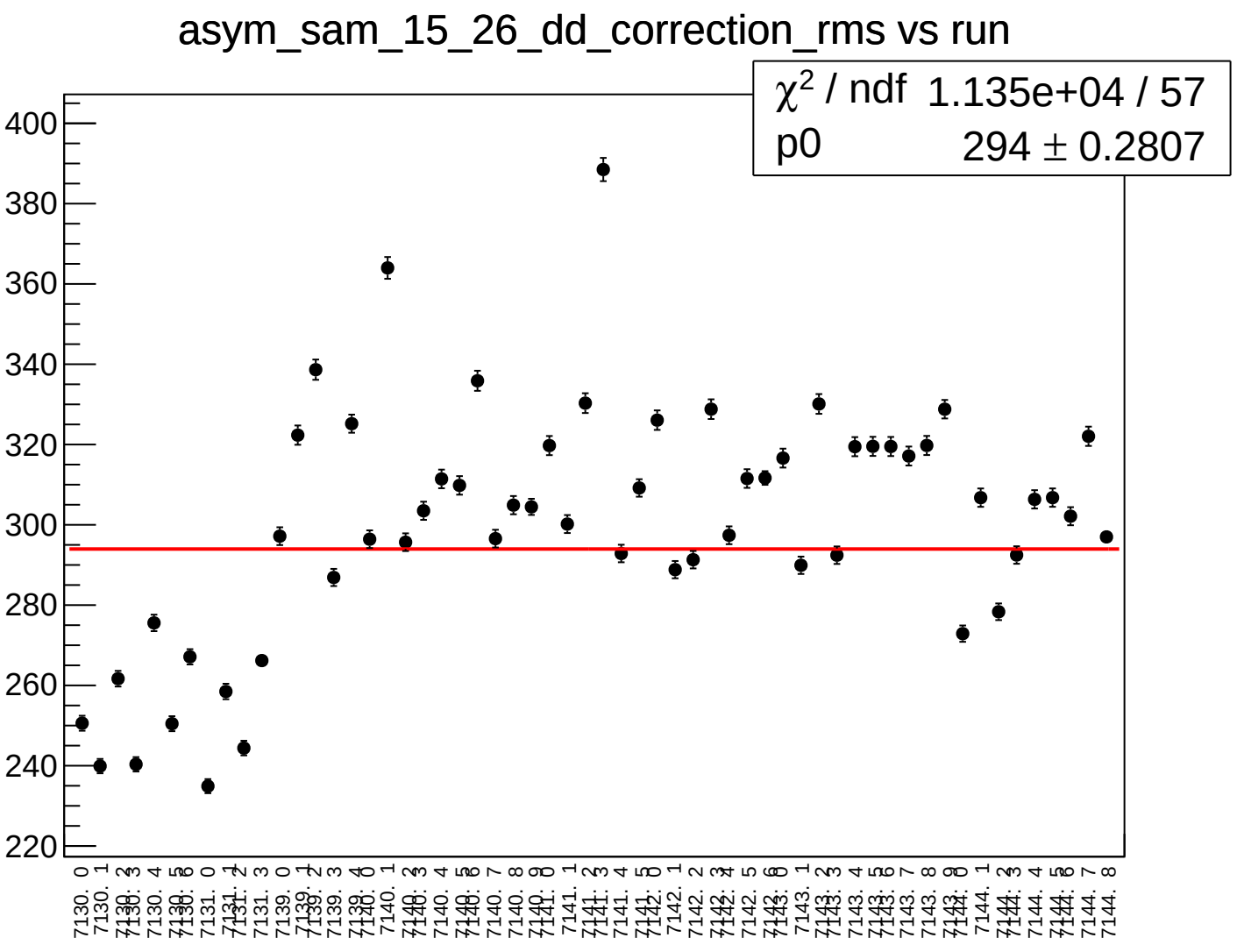

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 83.26 / 57
p0 −20.99 ± 68.06
pull
Entries 58
Mean 1841
Std Dev 1802

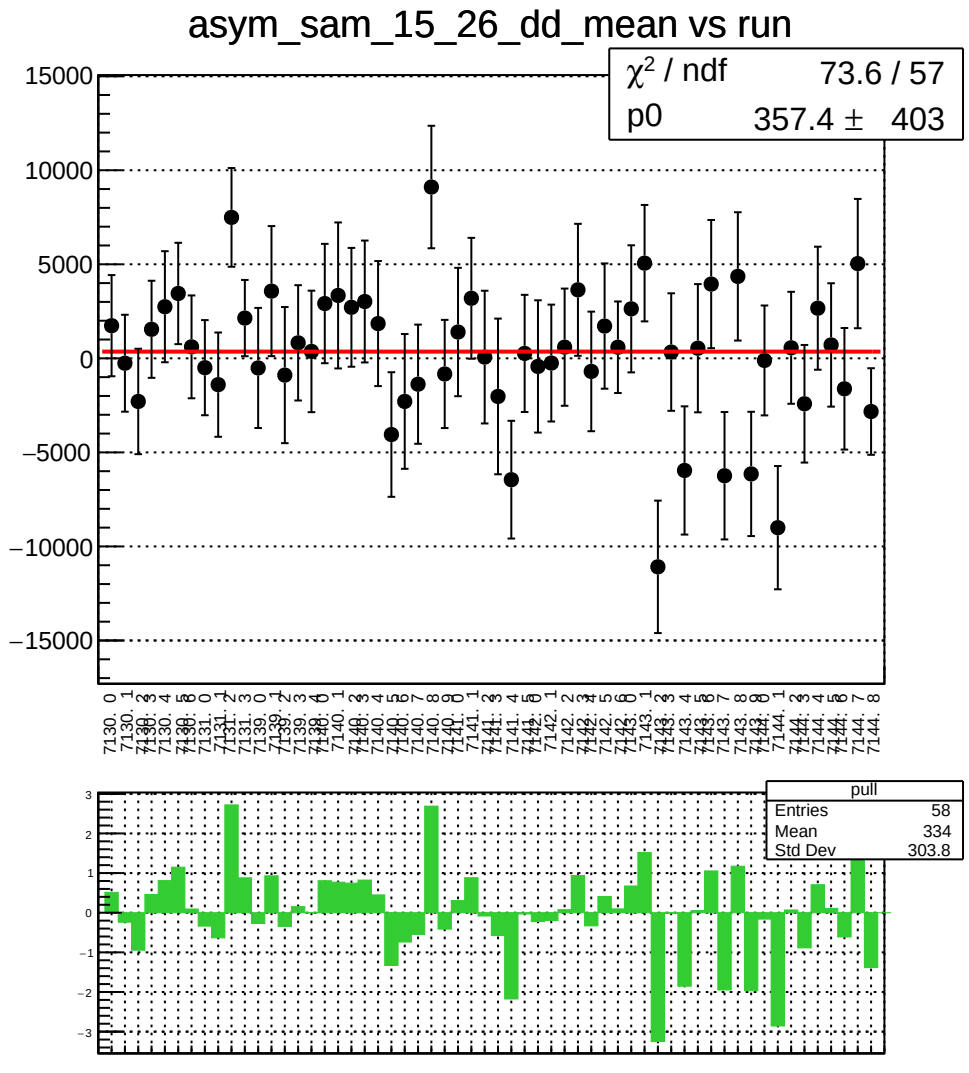

pull1D
Entries 58
Mean −0.001029
Std Dev 1.198

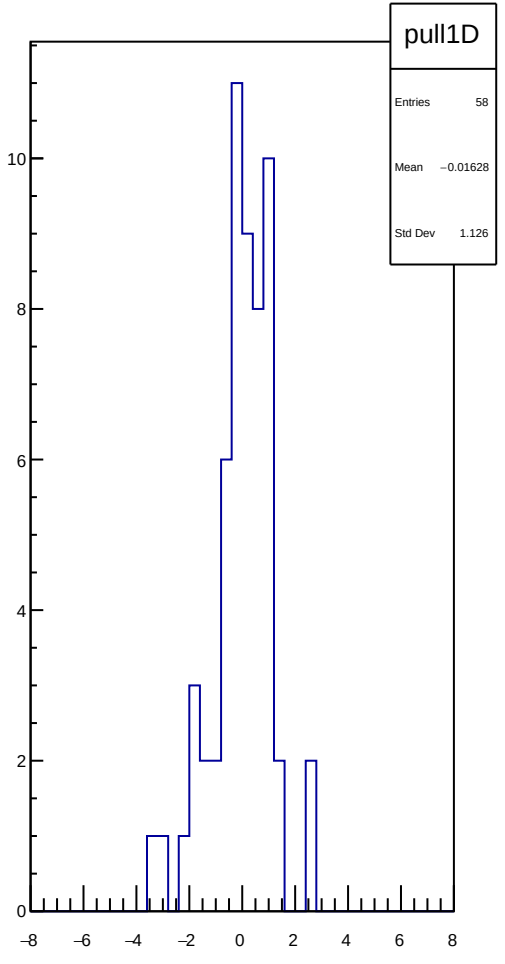

reg_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 4686 / 57
p0 50.55 ± 0.04813
70
65
60
55
50
45

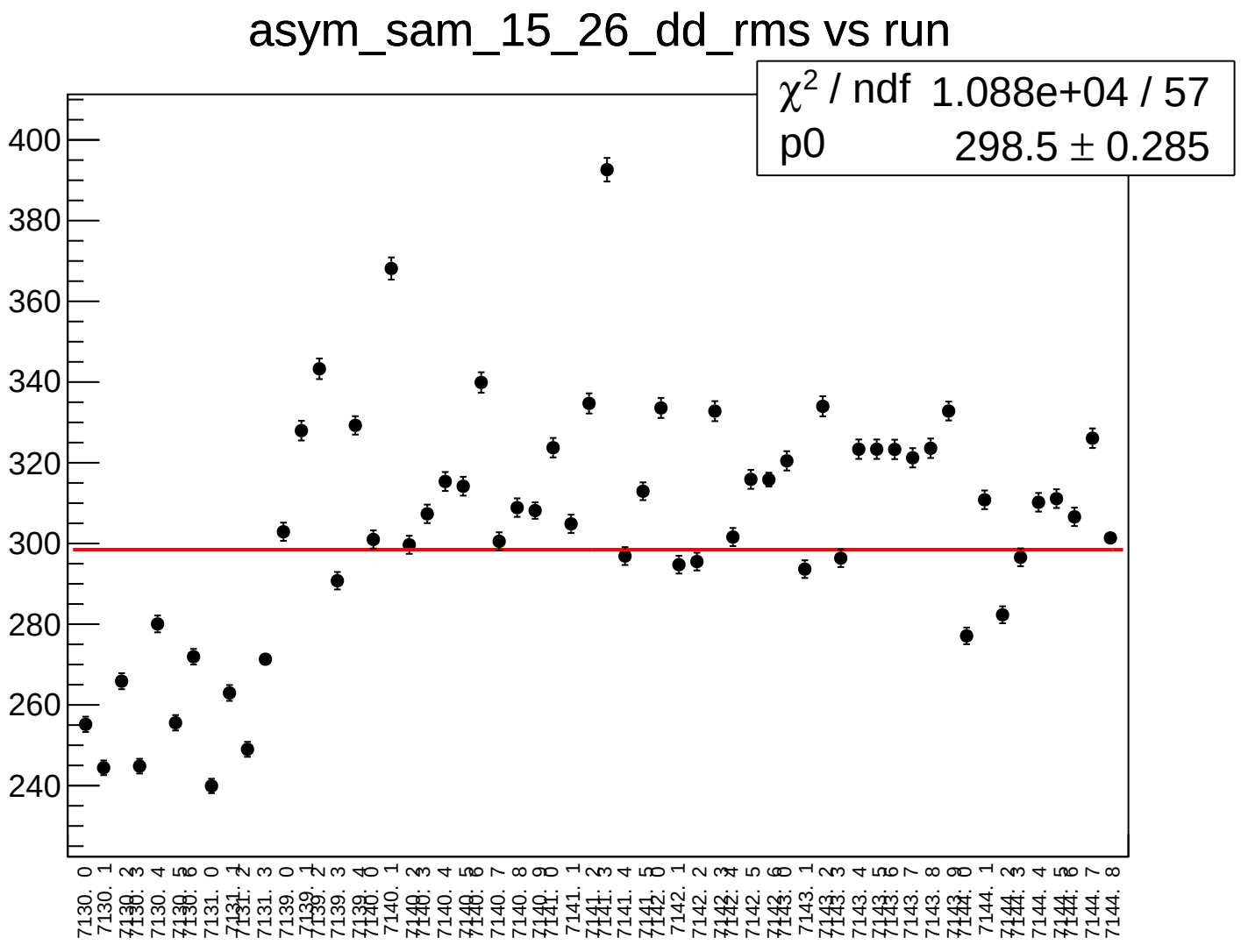

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 82.16 / 57
p0 −369.6 ± 397
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 58
Mean 344.1
Std Dev 314.7
3
2
1
0
−1
−2
−3

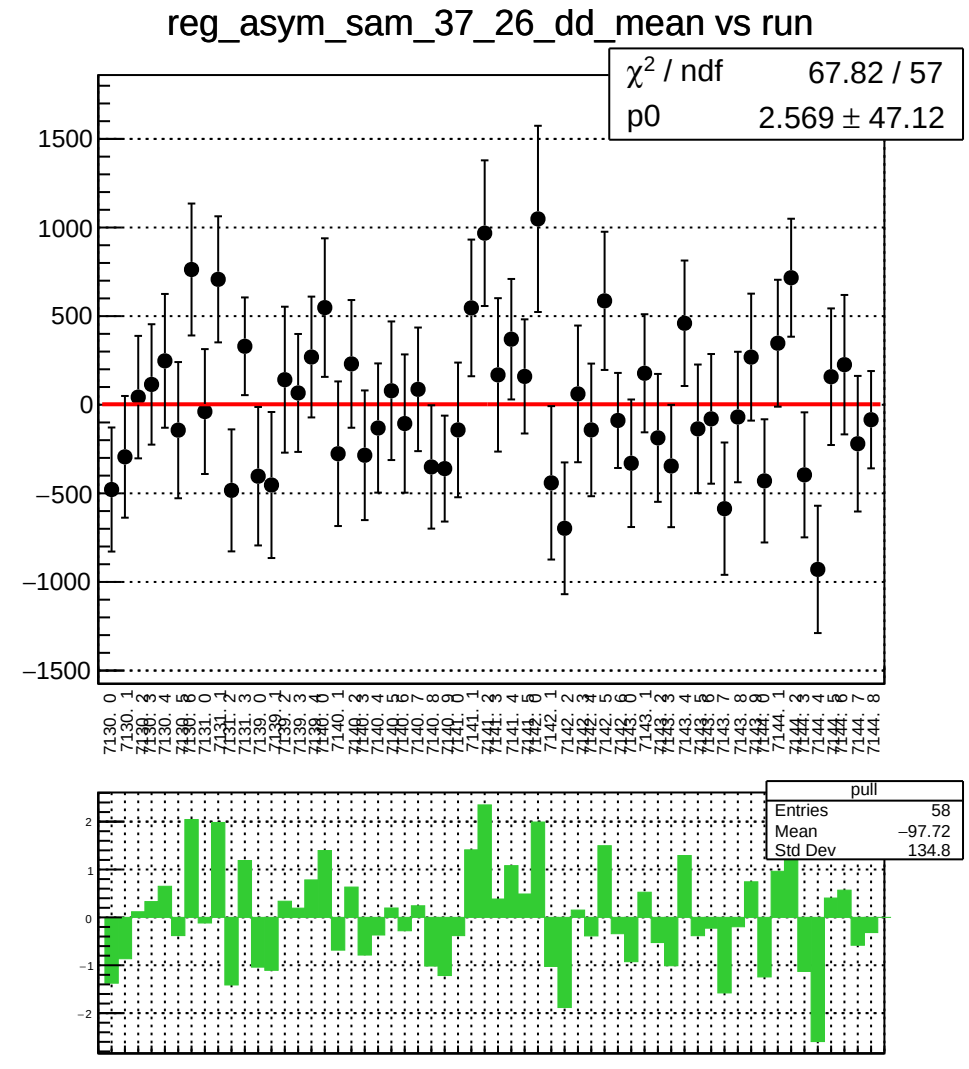

pull1D
Entries 58
Mean 0.01519
Std Dev 1.19
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

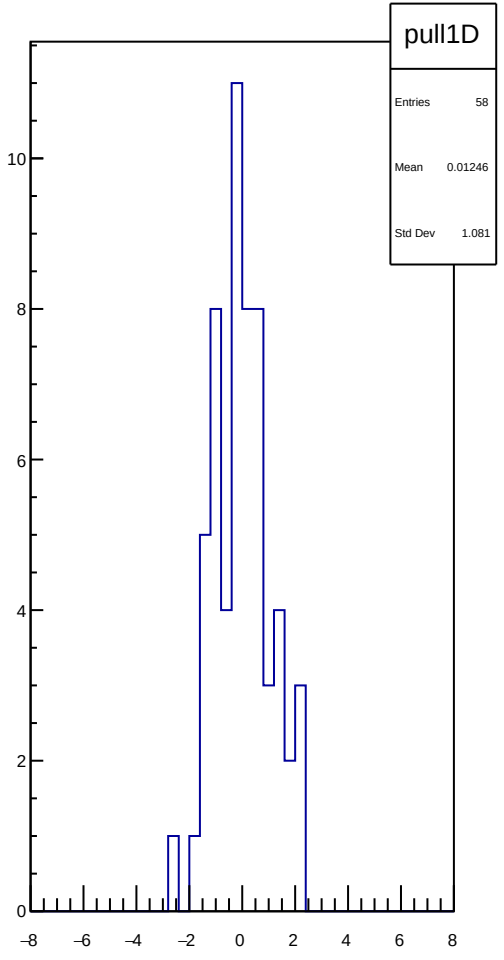

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 1.135e+04 / 57
p0 294 ± 0.2807
400
380
360
340
320
300
280
260
240
220

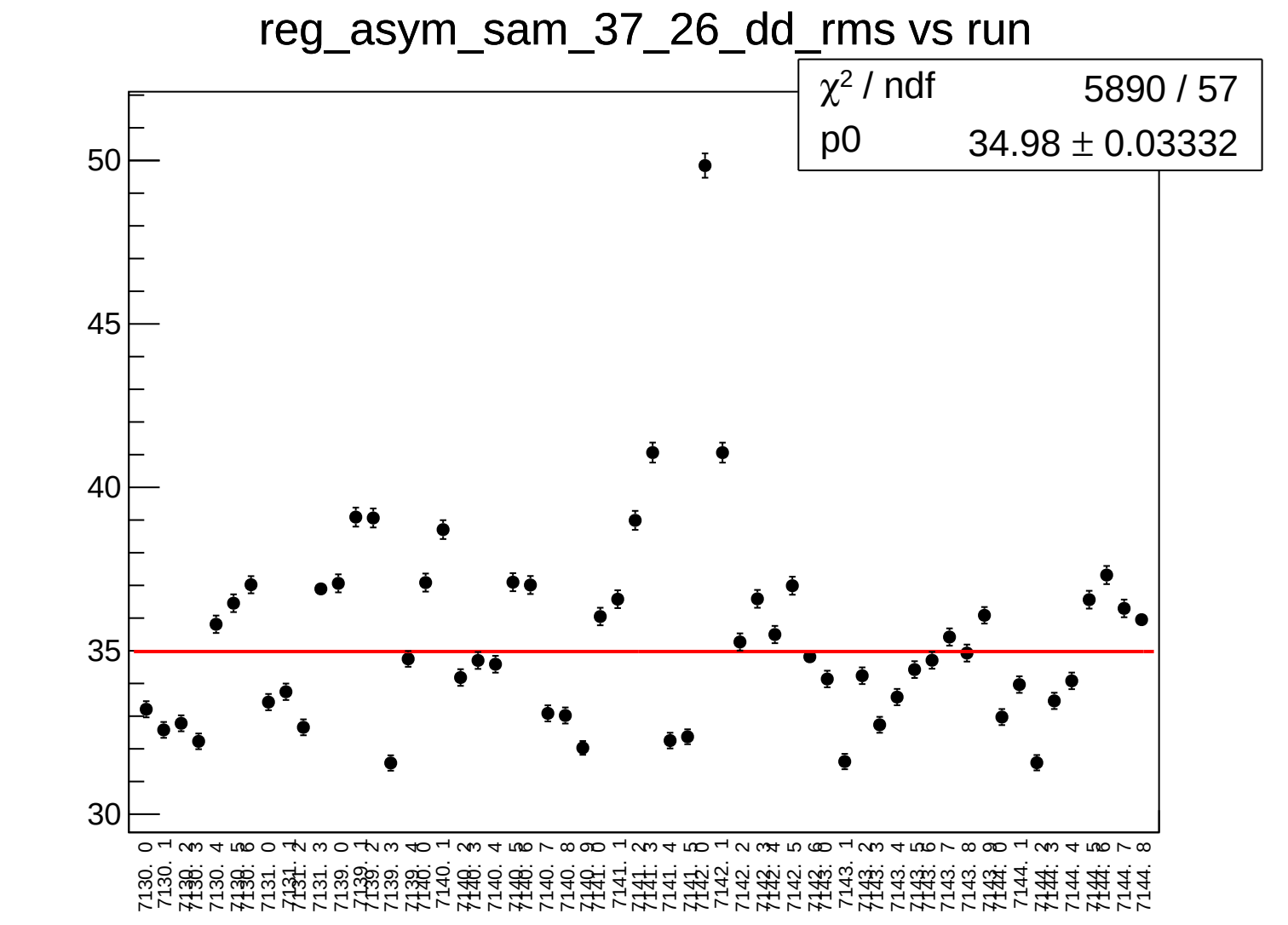

asym_sam_15_26_dd_mean vs run
χ² / ndf 73.6 / 57
p0 357.4 ± 403
pull
Entries 58
Mean 334
Std Dev 303.8

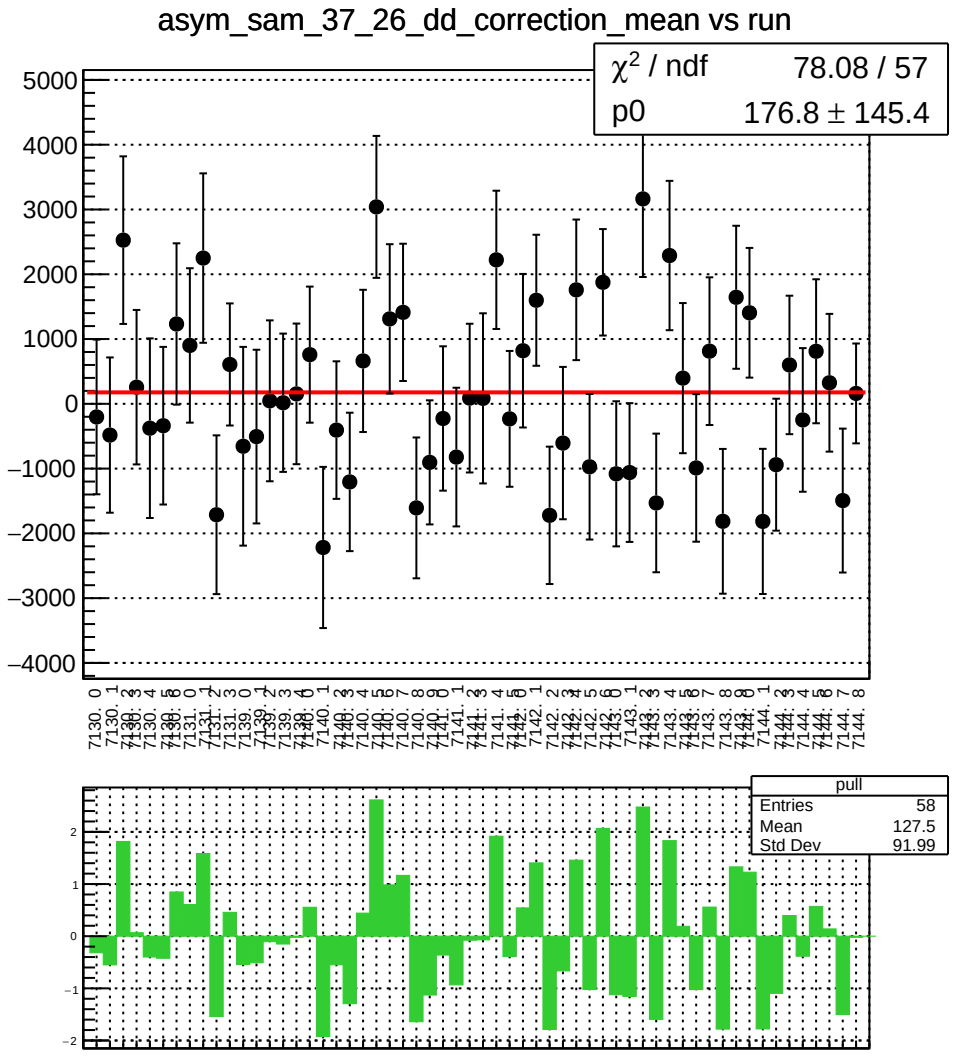

pull1D
Entries 58
Mean −0.01628
Std Dev 1.126

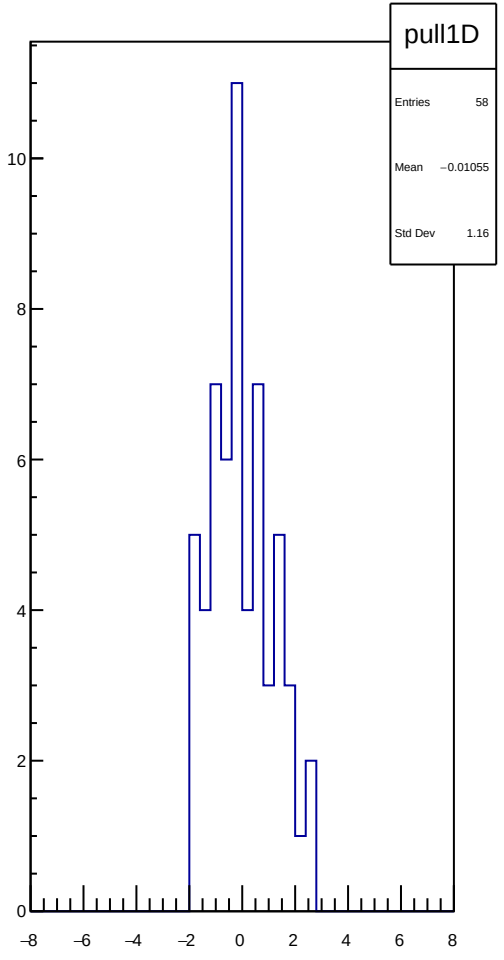

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.088e+04 / 57
p0 298.5 ± 0.285
400
380
360
340
320
300
280
260
240

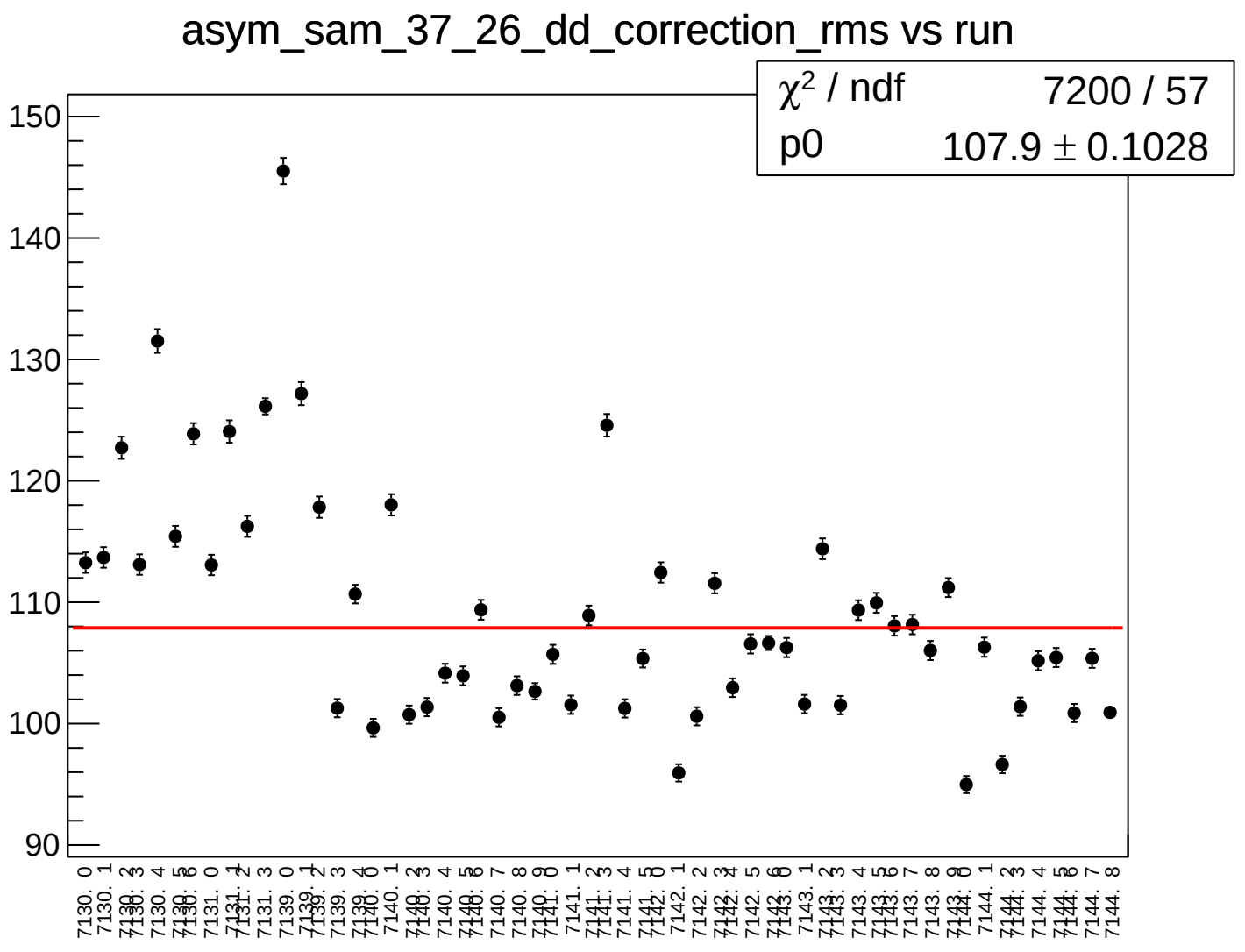

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 67.82 / 57
p0 2.569 ± 47.12
pull
Entries 58
Mean −97.72
Std Dev 134.8

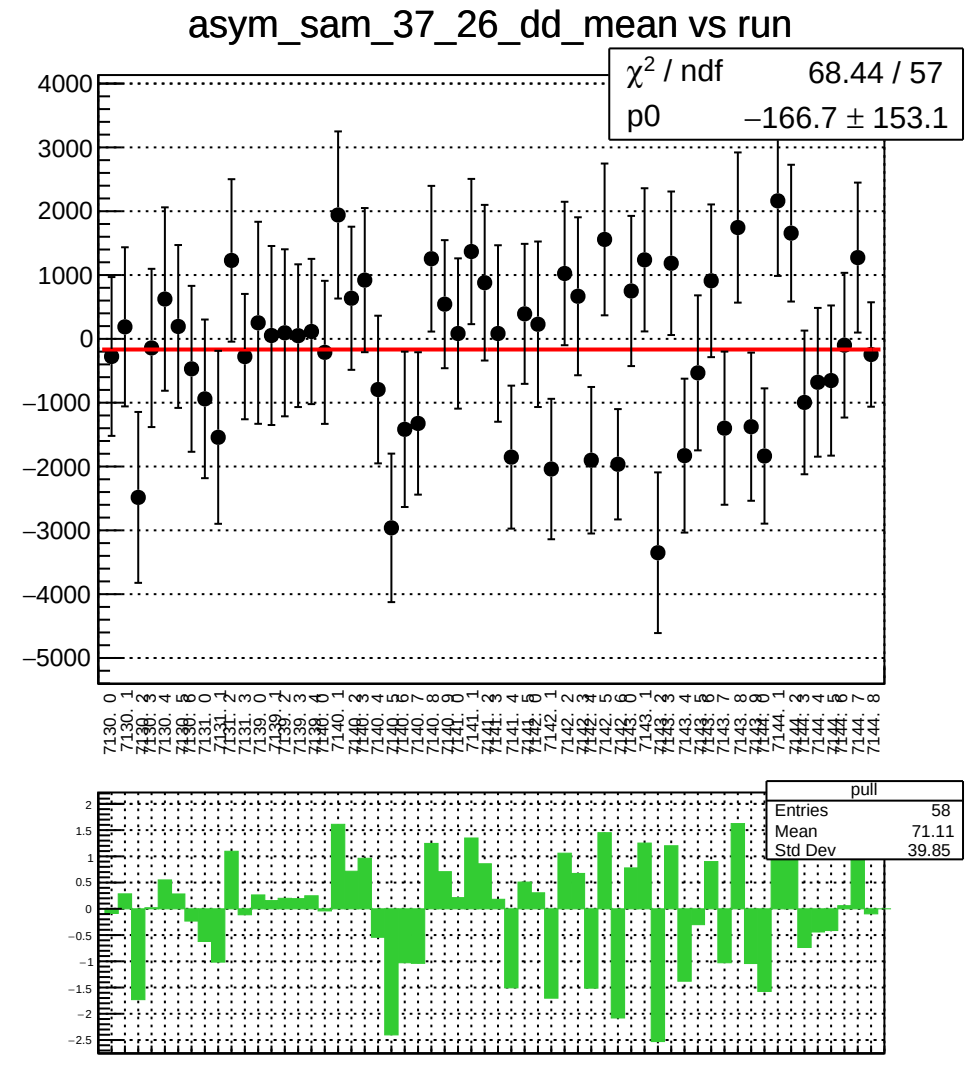

pull1D
Entries 58
Mean 0.01246
Std Dev 1.081

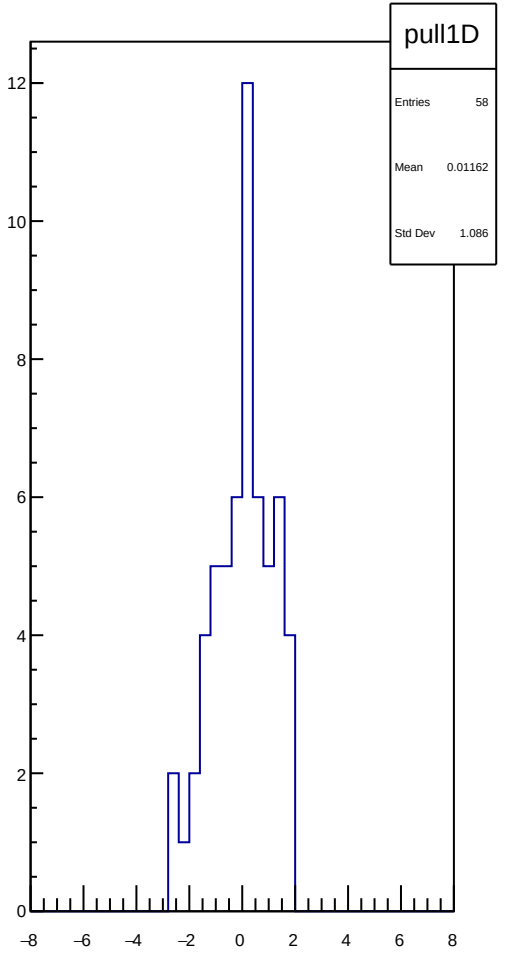

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 5890 / 57
p0 34.98 ± 0.03332
50
45
40
35
30

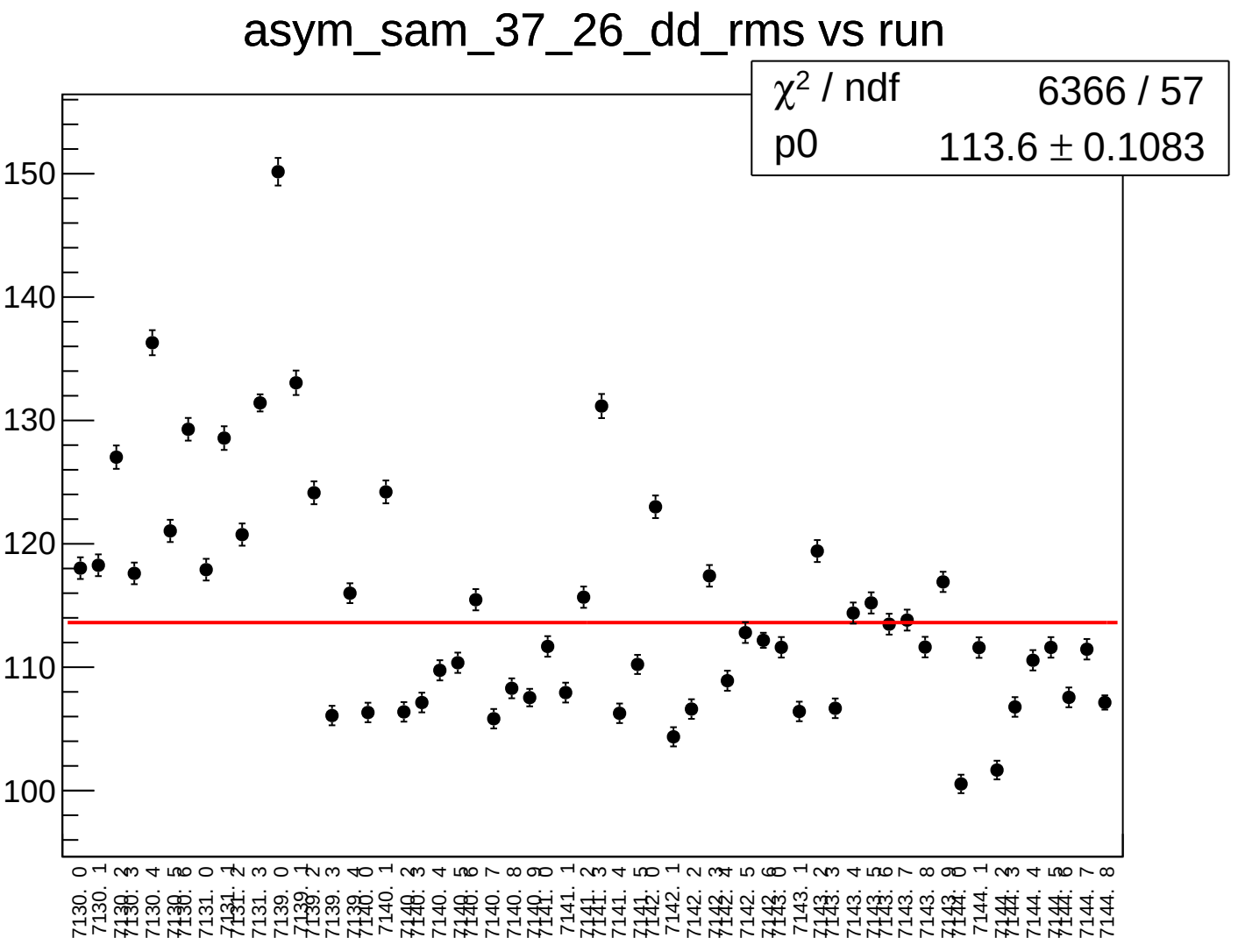

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 78.08 / 57
p0 176.8 ± 145.4
pull
Entries 58
Mean 127.5
Std Dev 91.99

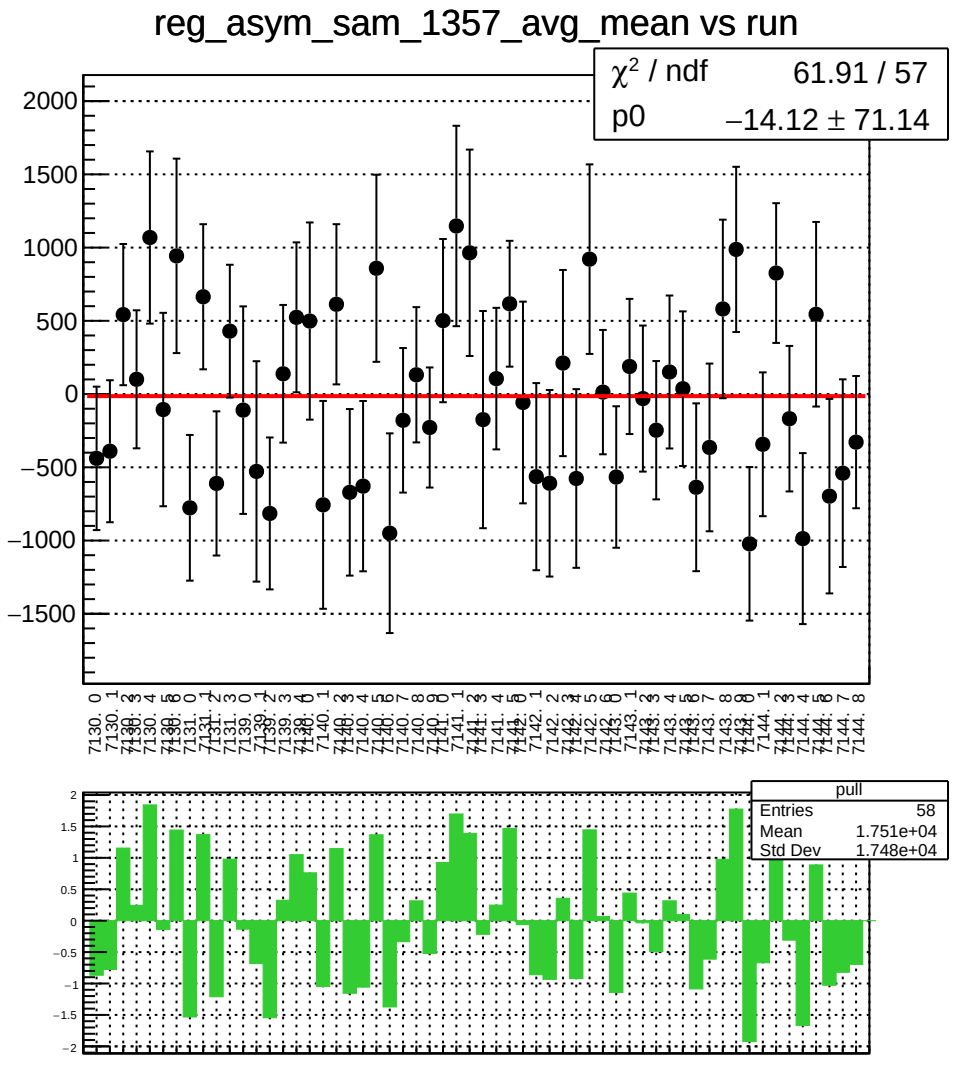

pull1D
Entries 58
Mean −0.01055
Std Dev 1.16

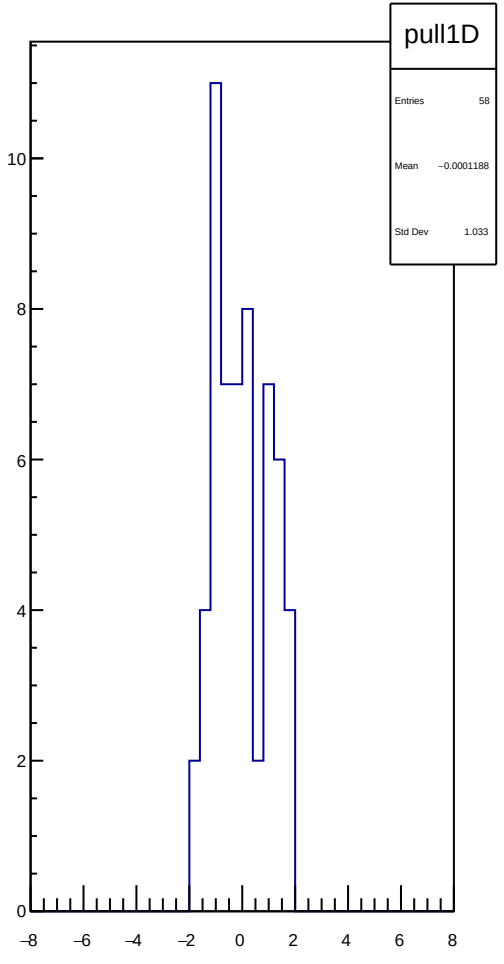

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 7200 / 57
p0 107.9 ± 0.1028
150
140
130
120
110
100
90

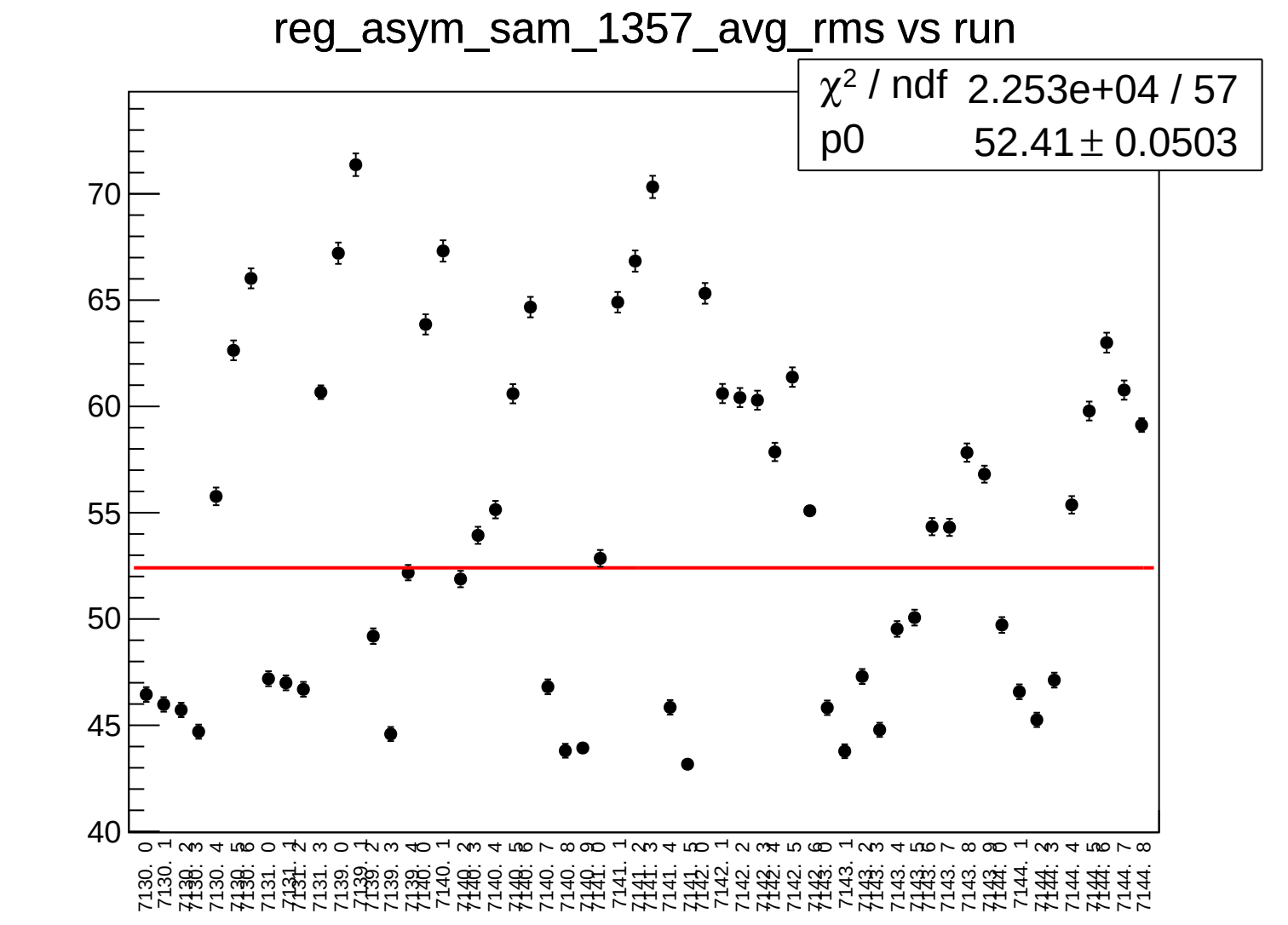

asym_sam_37_26_dd_mean vs run
χ² / ndf 68.44 / 57
p0 −166.7 ± 153.1
pull
Entries 58
Mean 71.11
Std Dev 39.85

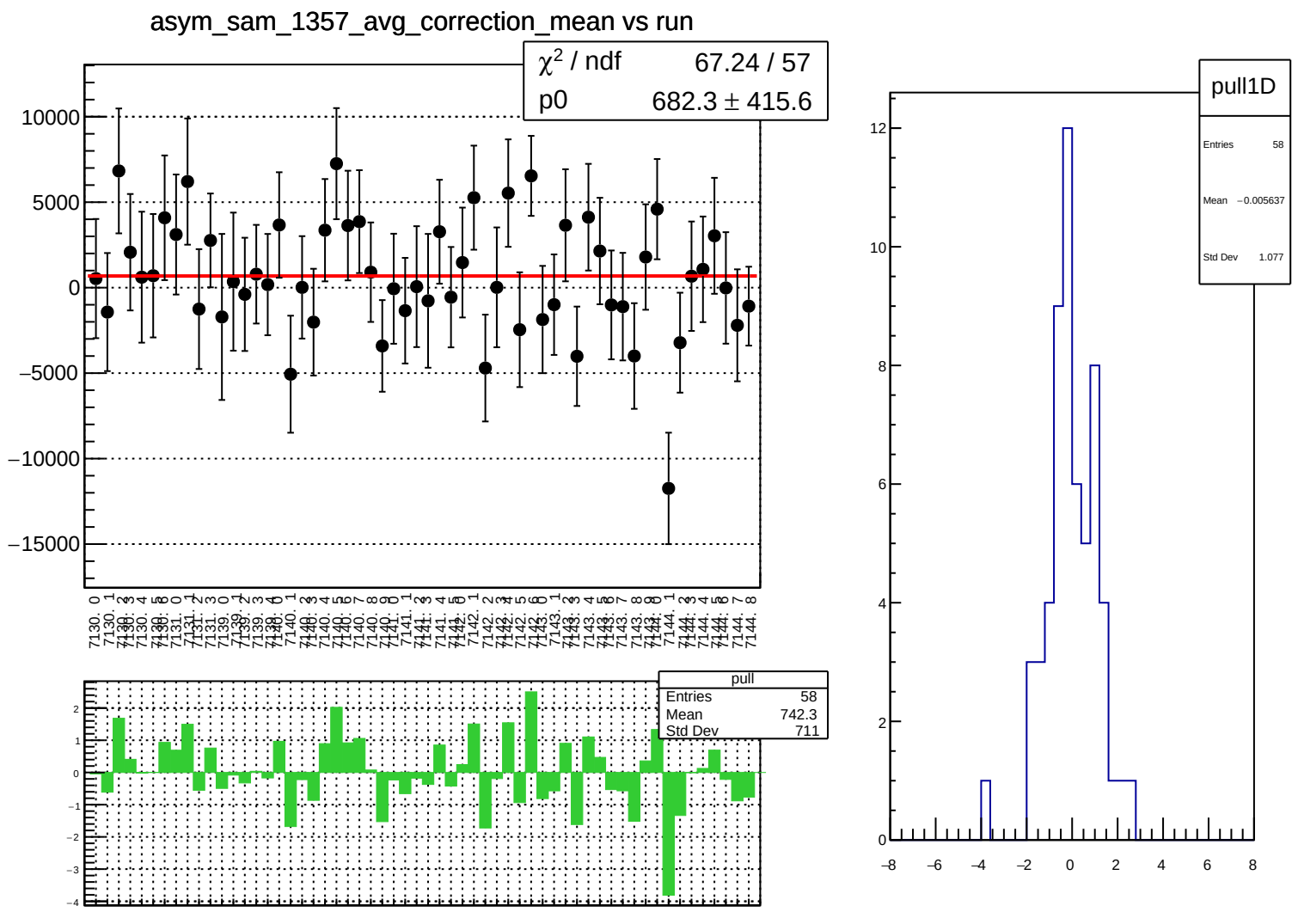

pull1D
Entries 58
Mean 0.01162
Std Dev 1.086

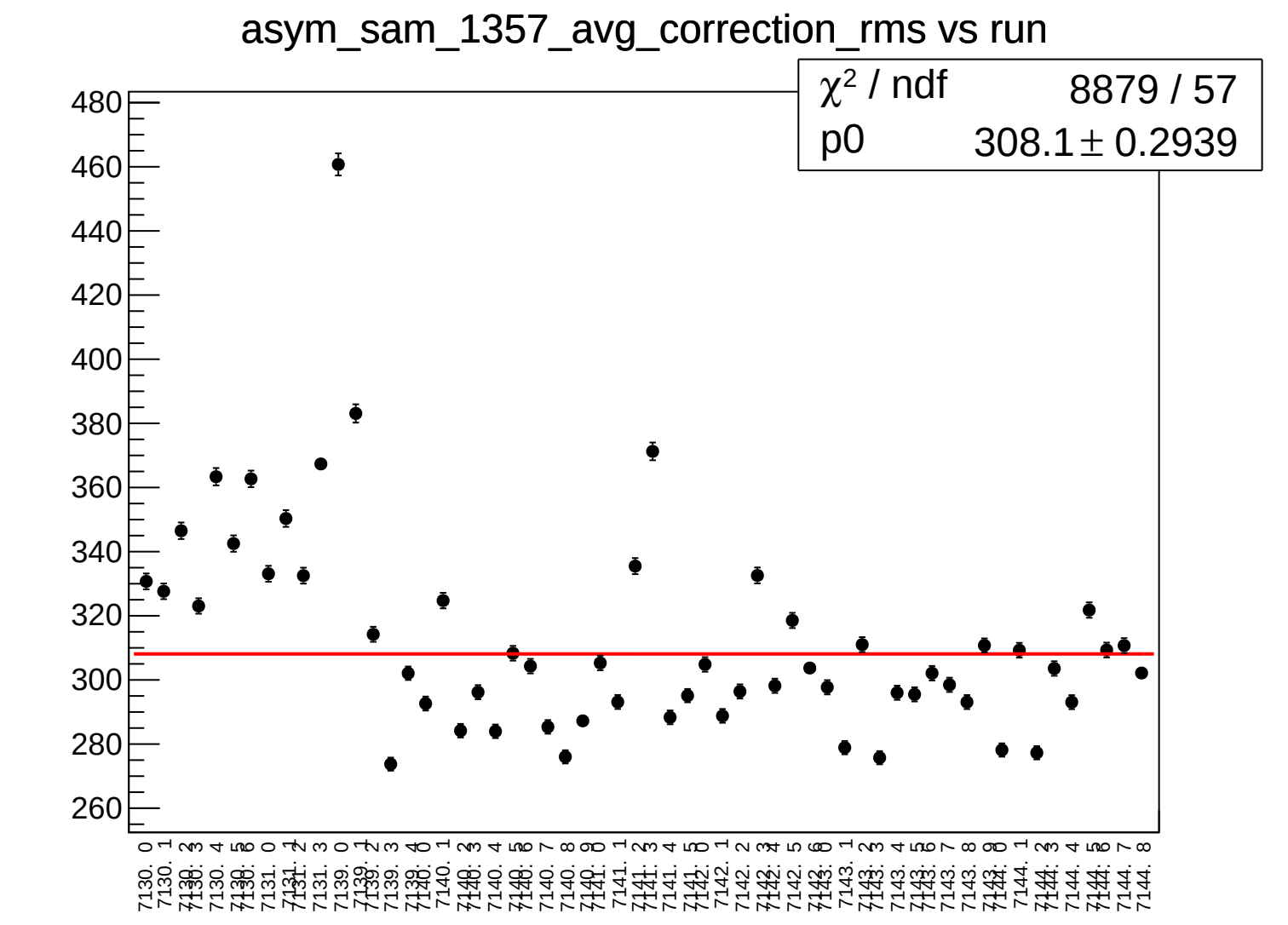

asym_sam_37_26_dd_rms vs run
χ² / ndf 6366 / 57
p0 113.6 ± 0.1083
150
140
130
120
110
100

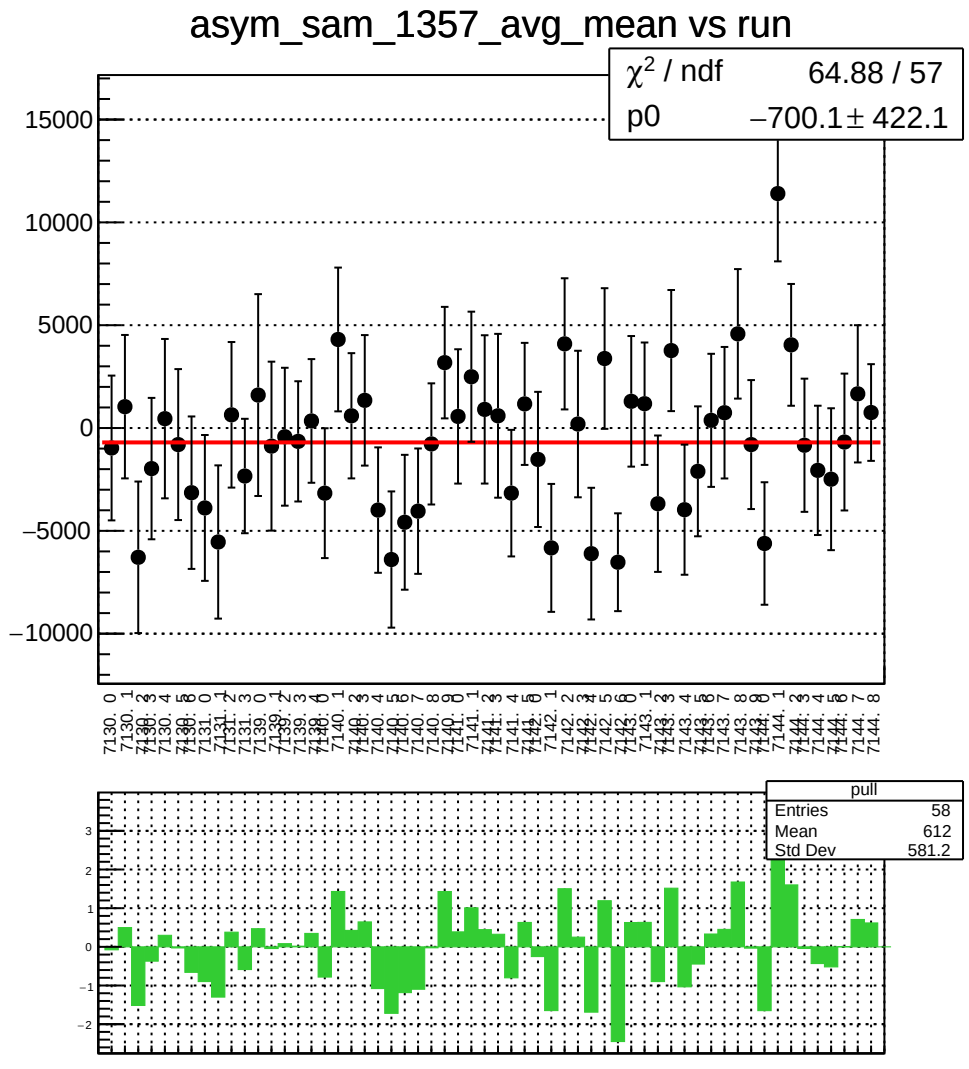

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 61.91 / 57
p0 −14.12 ± 71.14
pull
Entries 58
Mean 1.751e+04
Std Dev 1.748e+04

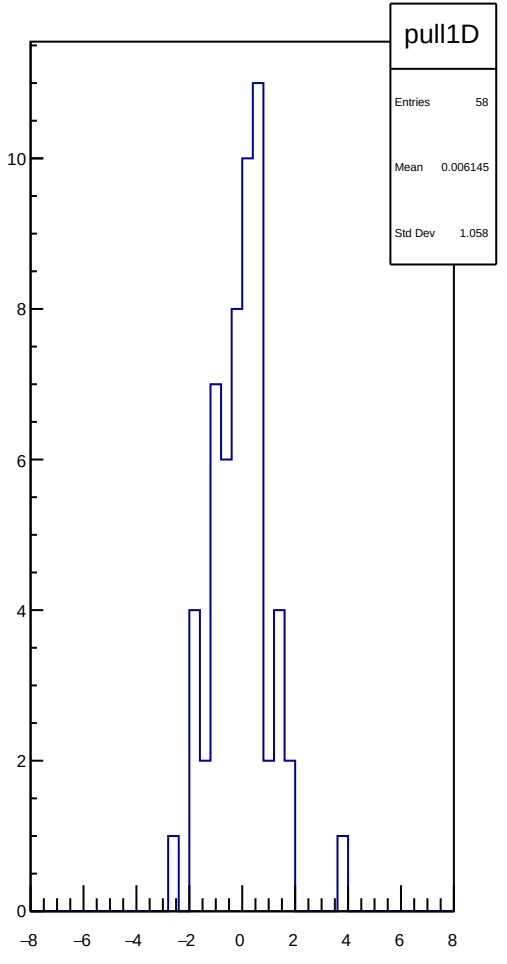

pull1D
Entries 58
Mean −0.0001188
Std Dev 1.033

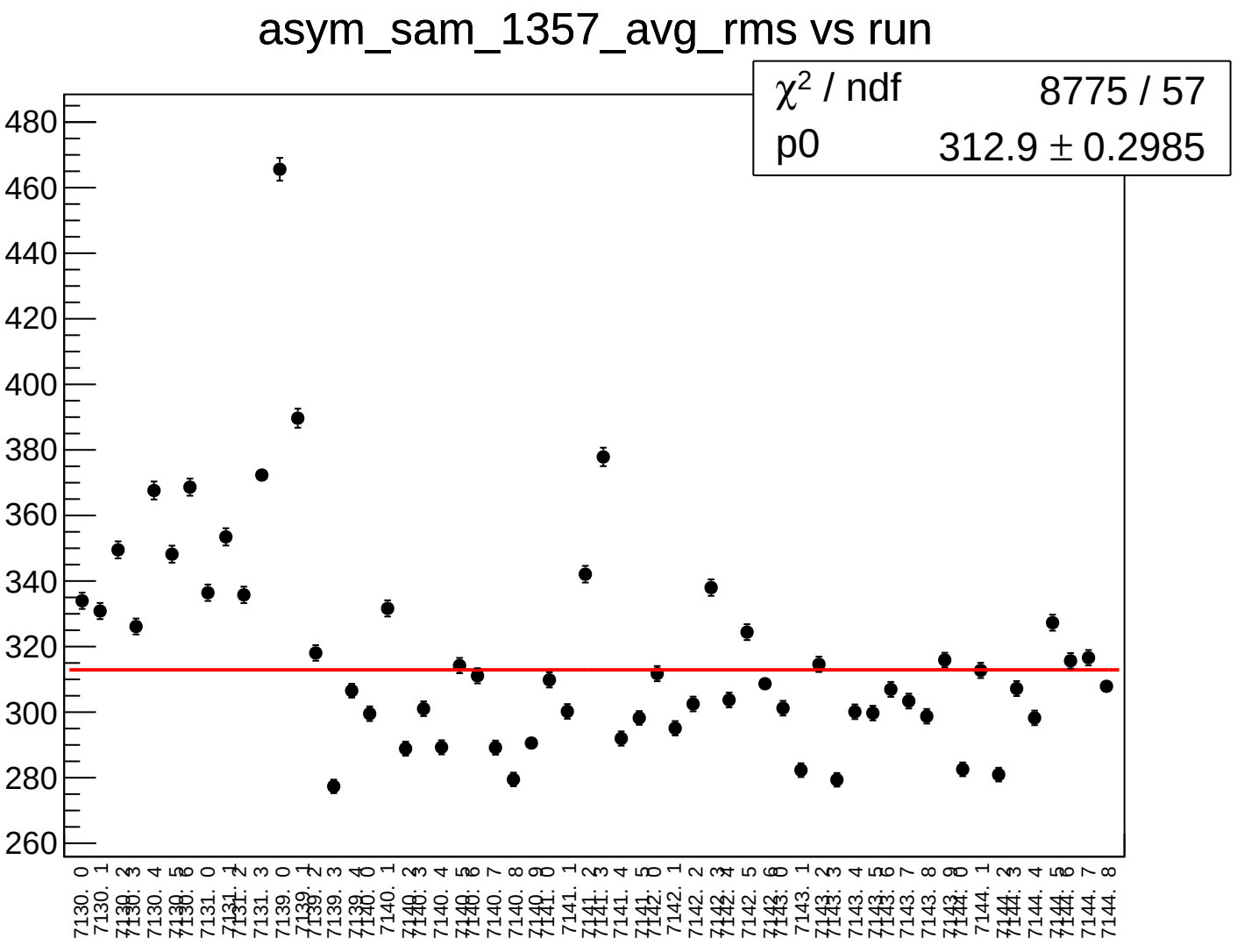

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 2.253e+04 / 57
p0 52.41 ± 0.0503
70
65
60
55
50
45
40

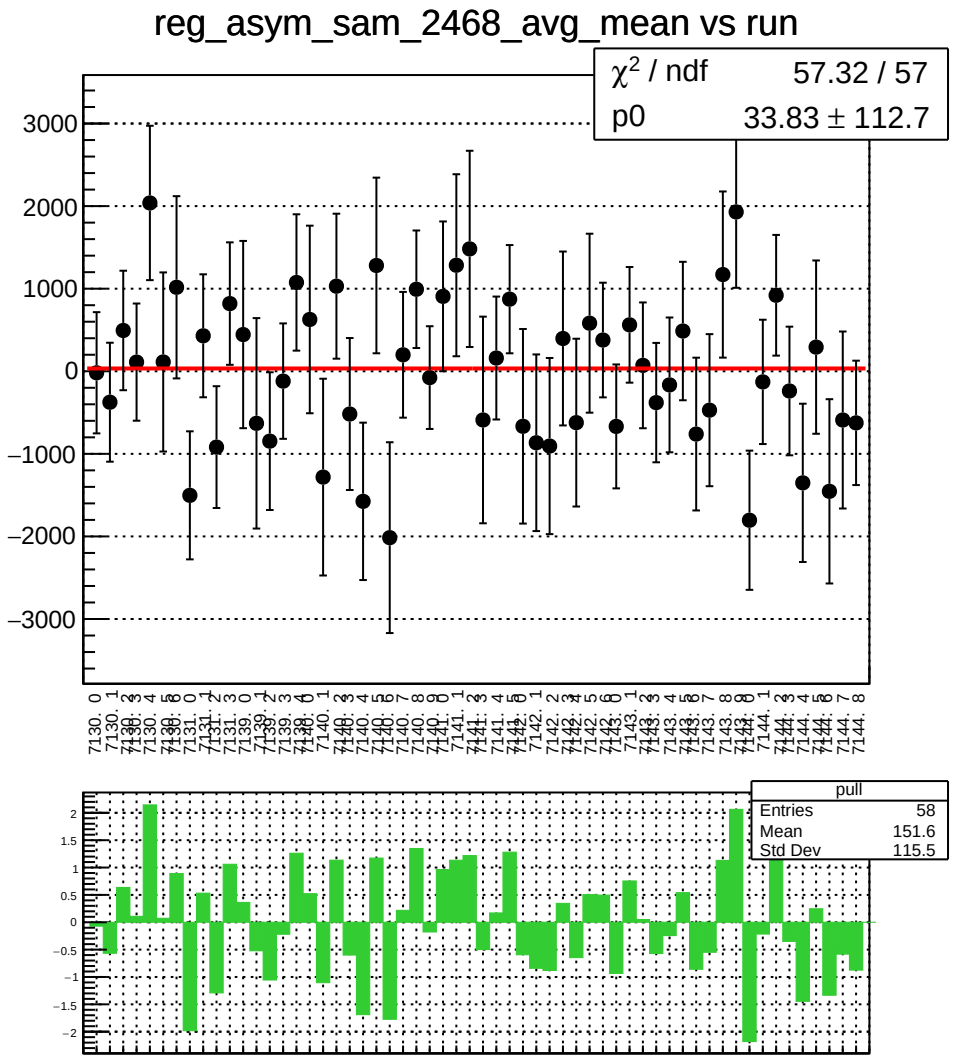

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 67.24 / 57
p0 682.3 ± 415.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 58
Mean 742.3
Std Dev 711
pull1D
Entries 58
Mean −0.005637
Std Dev 1.077

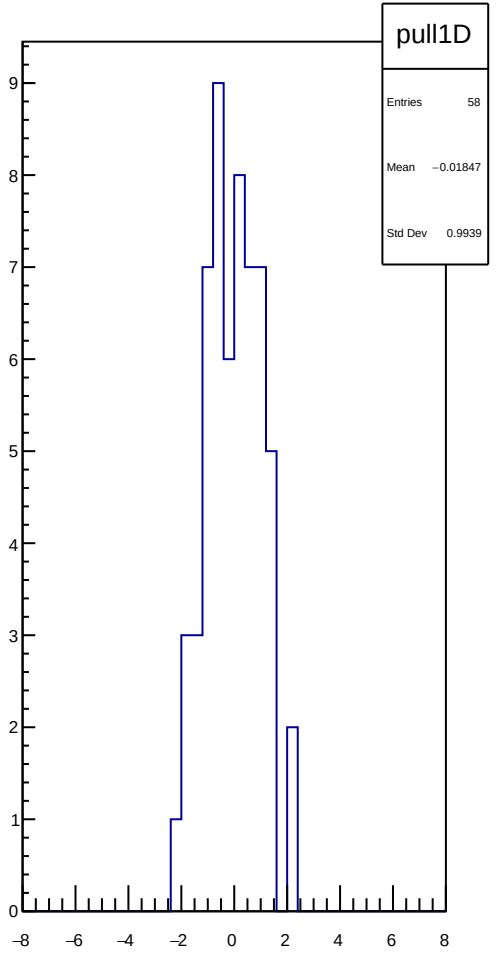

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 8879 / 57
p0 308.1 ± 0.2939
480
460
440
420
400
380
360
340
320
300
280
260

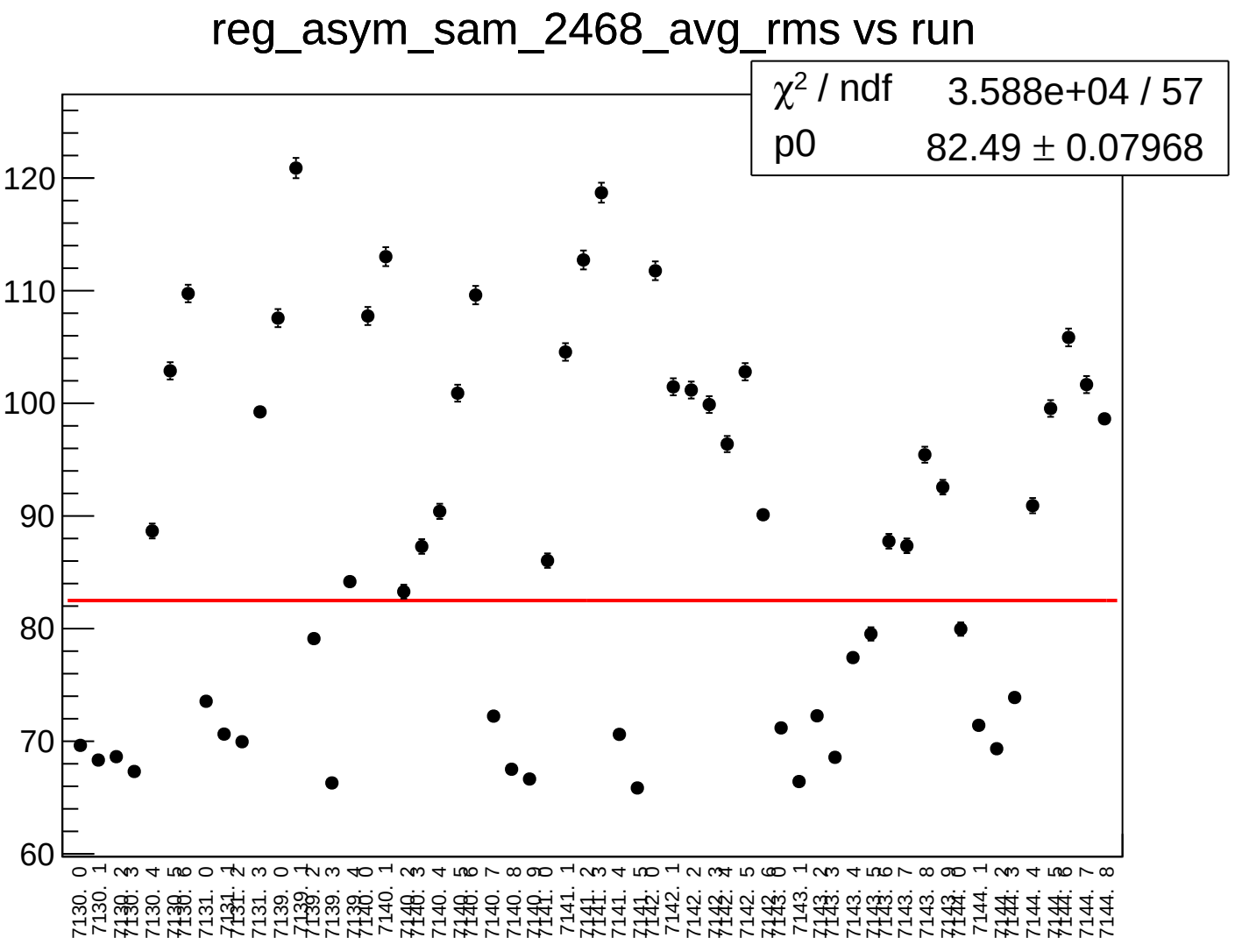

asym_sam_1357_avg_mean vs run
χ² / ndf 64.88 / 57
p0 −700.1 ± 422.1
15000
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 612
Std Dev 581.2
3
2
1
0
−1
−2

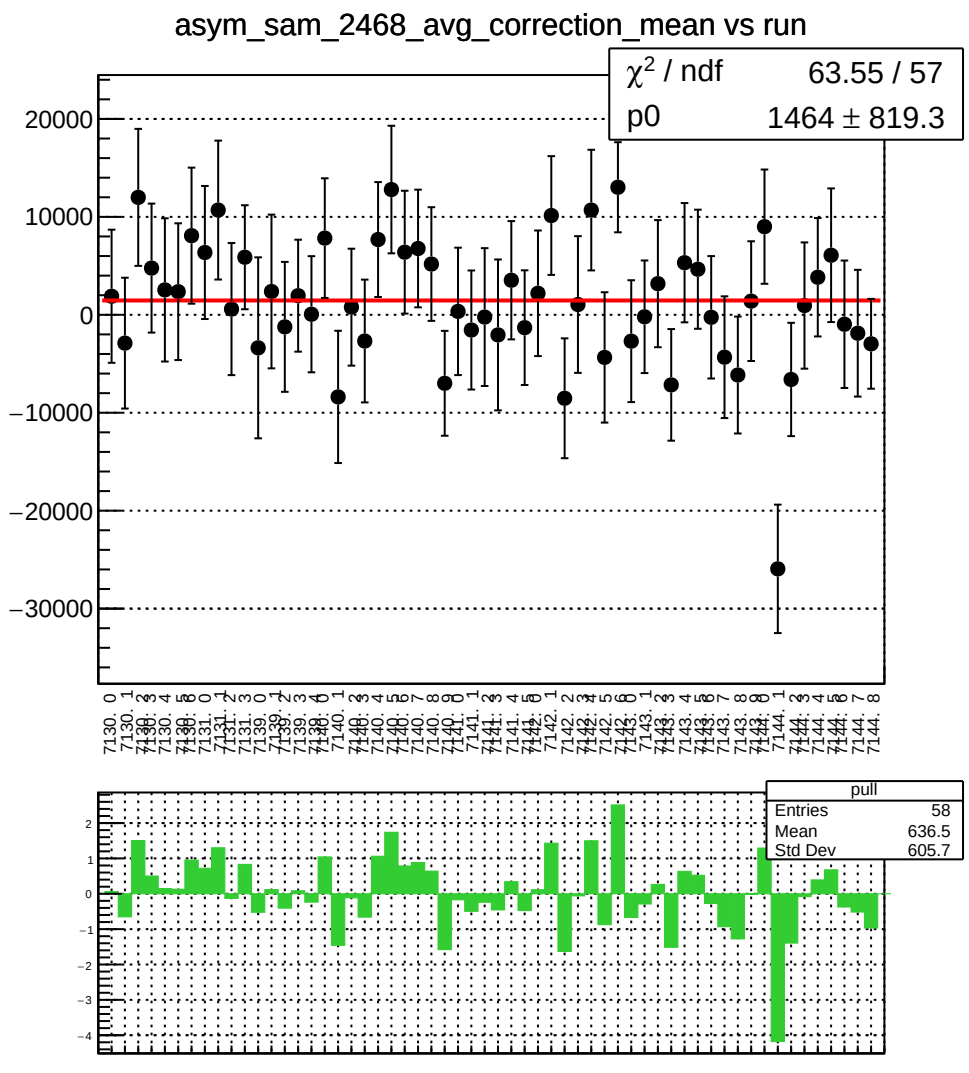

pull1D
Entries 58
Mean 0.006145
Std Dev 1.058
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

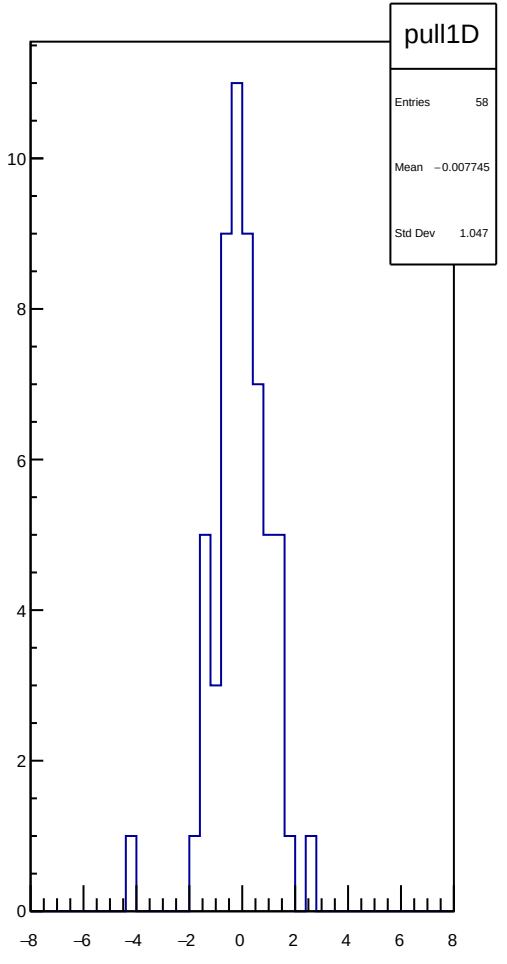

asym_sam_1357_avg_rms vs run
χ^2 / ndf 8775 / 57
p0 312.9 ± 0.2985
480
460
440
420
400
380
360
340
320
300
280
260

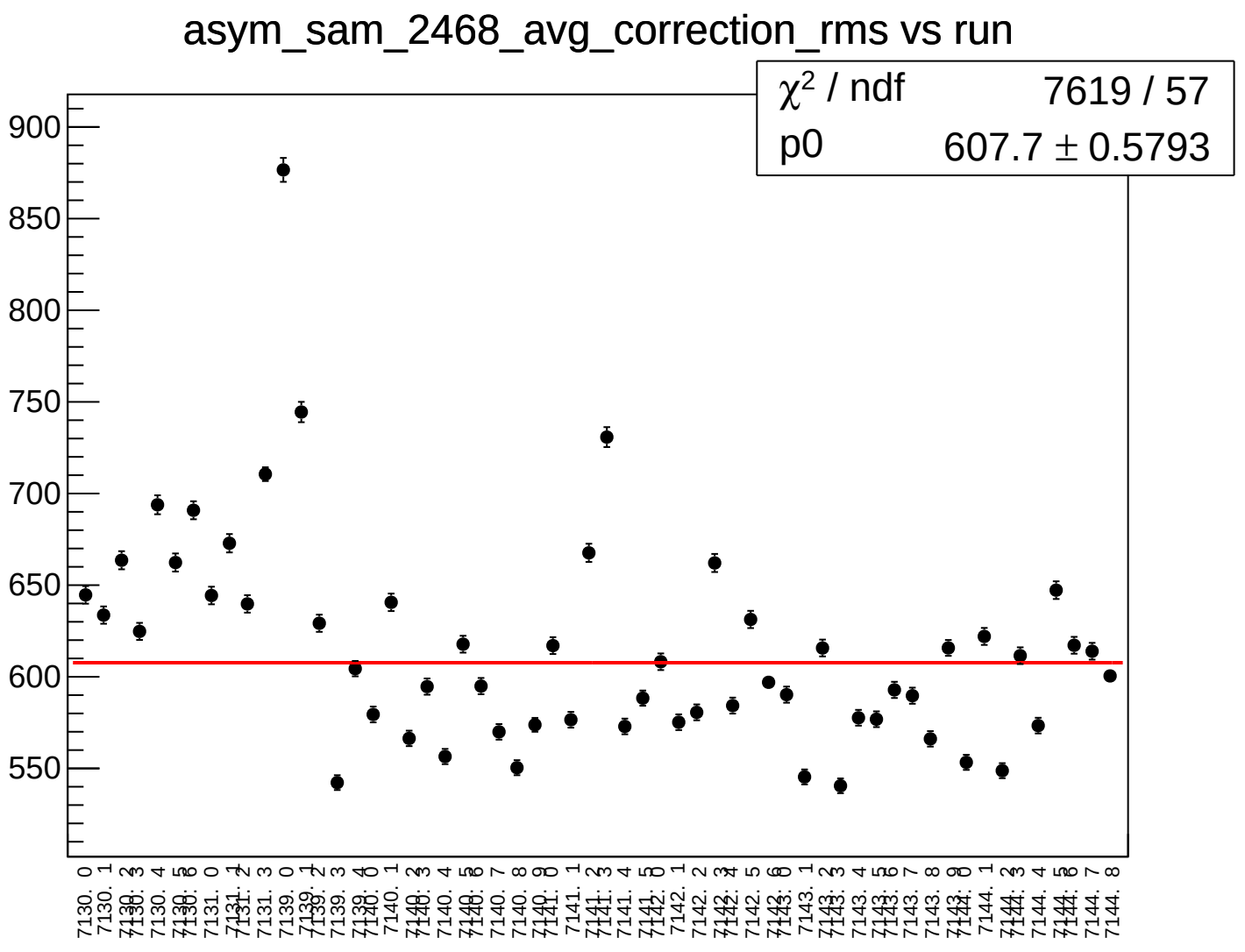

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 57.32 / 57
p0 33.83 ± 112.7
pull
Entries 58
Mean 151.6
Std Dev 115.5

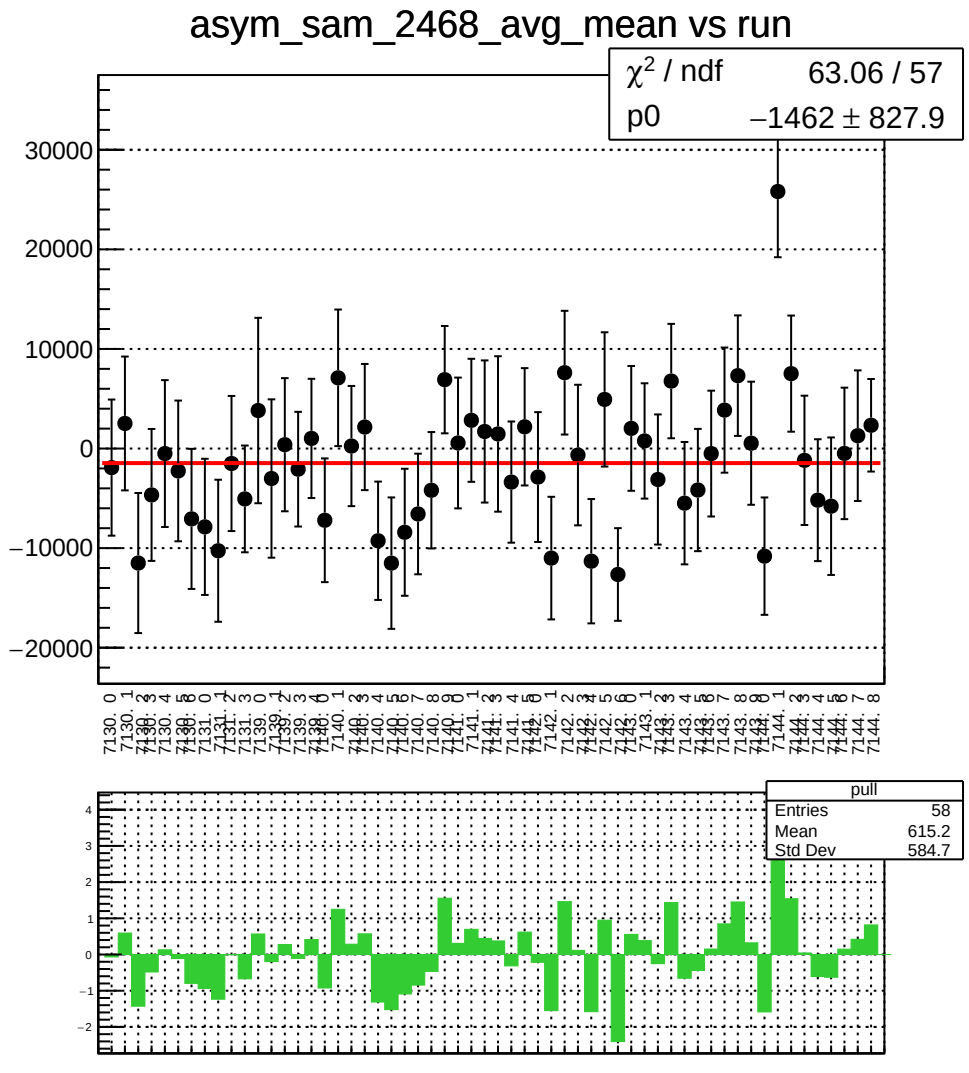

pull1D
Entries 58
Mean −0.01847
Std Dev 0.9939

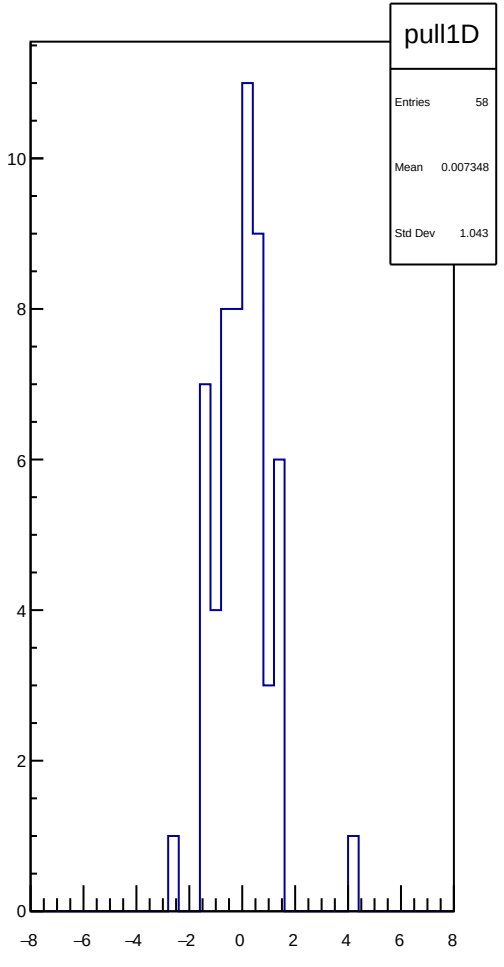

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 3.588e+04 / 57
p0 82.49 ± 0.07968
120
110
100
90
80
70
60

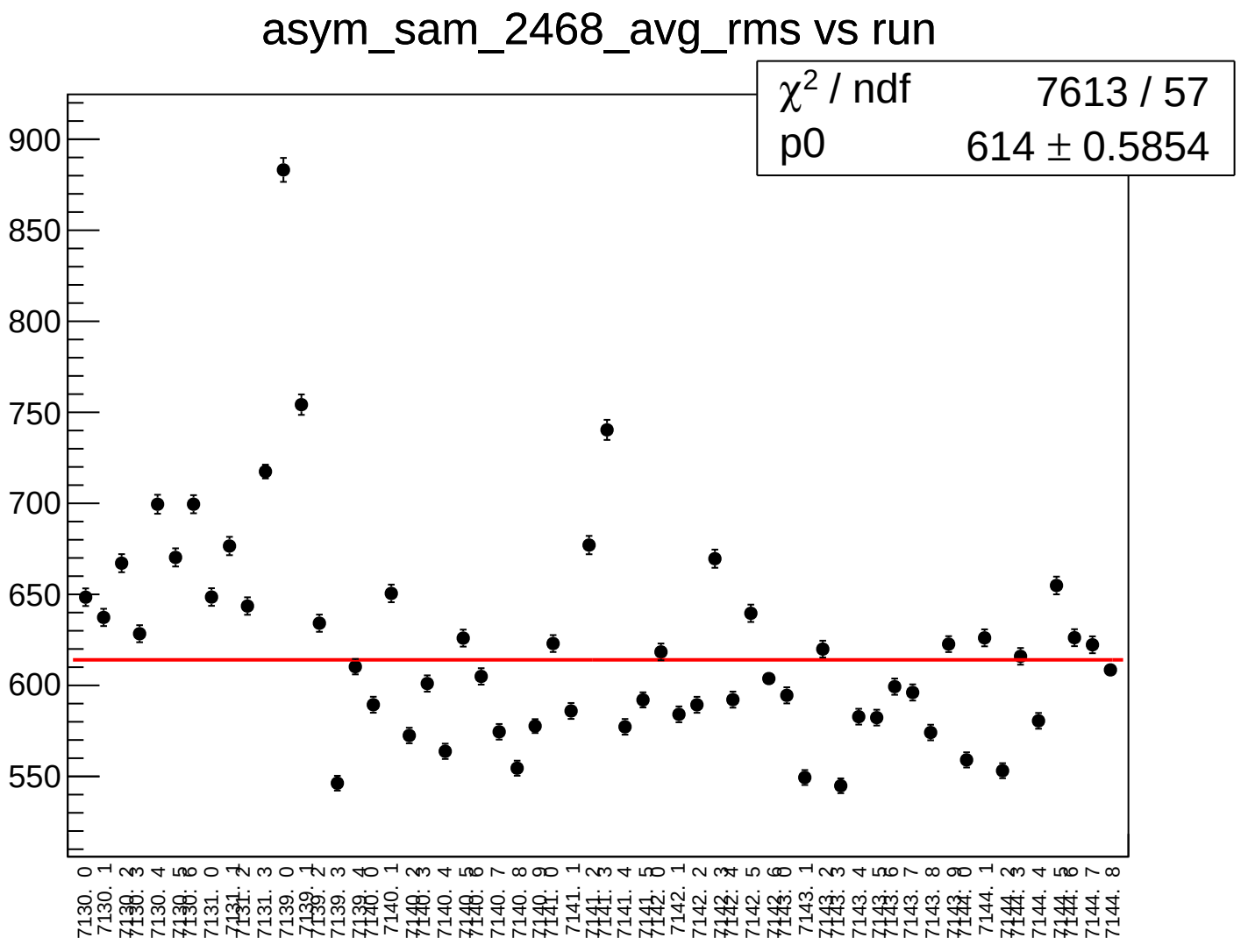

asym_sam_2468_avg_correction_mean vs run
χ^2 / ndf 63.55 / 57
p0 1464 ± 819.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 58
Mean 636.5
Std Dev 605.7
2
1
0
−1
−2
−3
−4

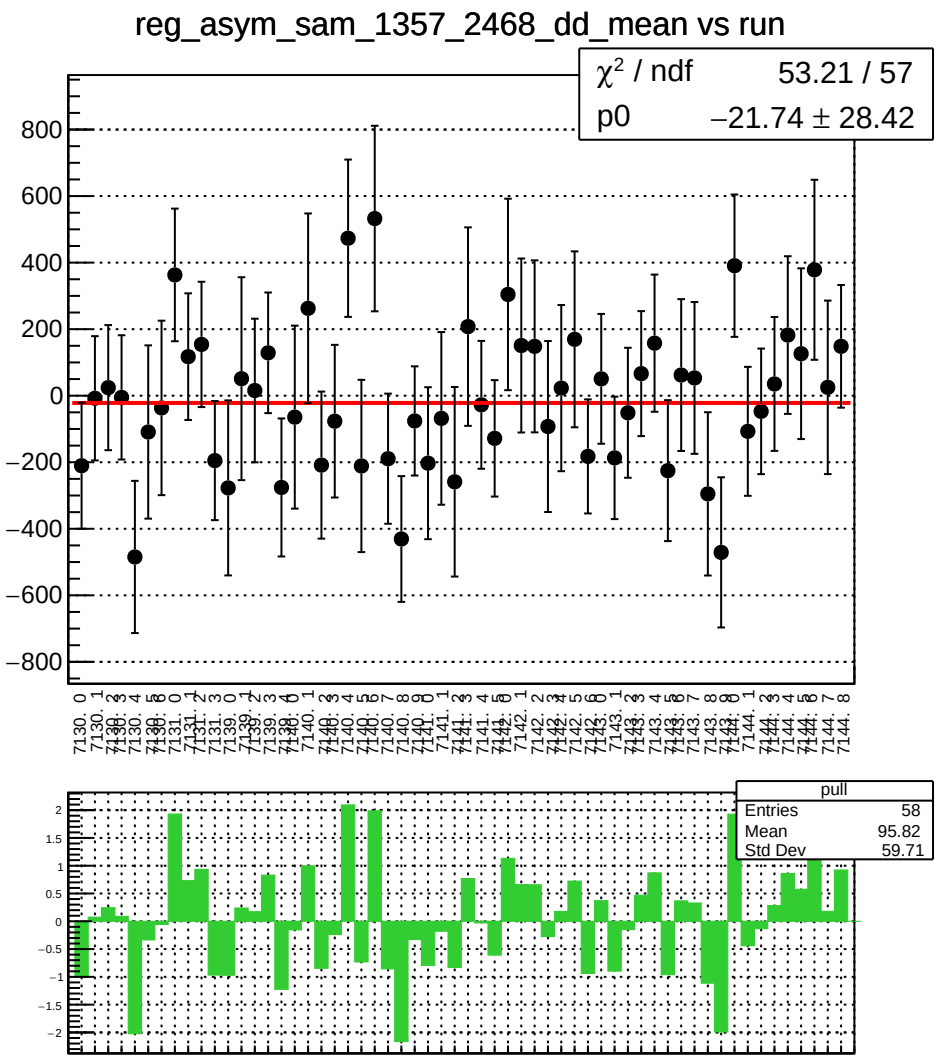

pull1D
Entries 58
Mean −0.007745
Std Dev 1.047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

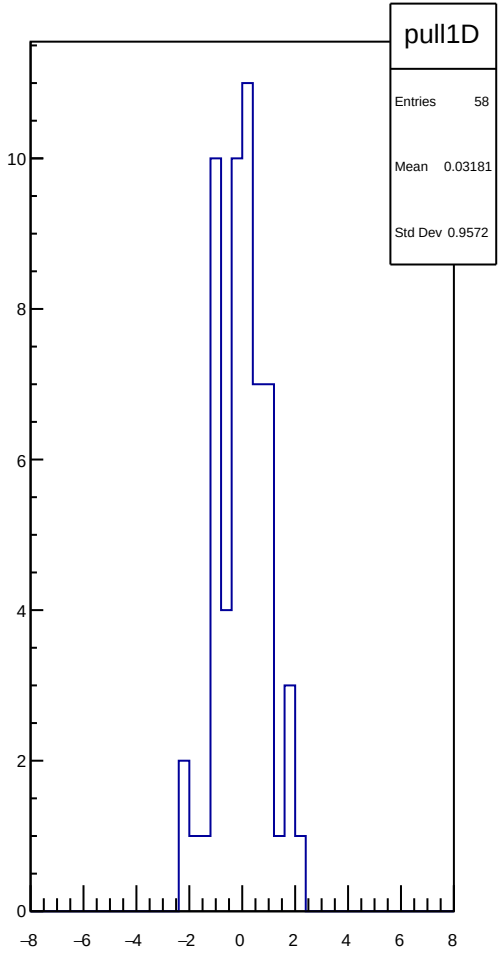

asym_sam_2468_avg_correction_rms vs run
χ^2 / ndf 7619 / 57
p0 607.7 ± 0.5793
900
850
800
750
700
650
600
550

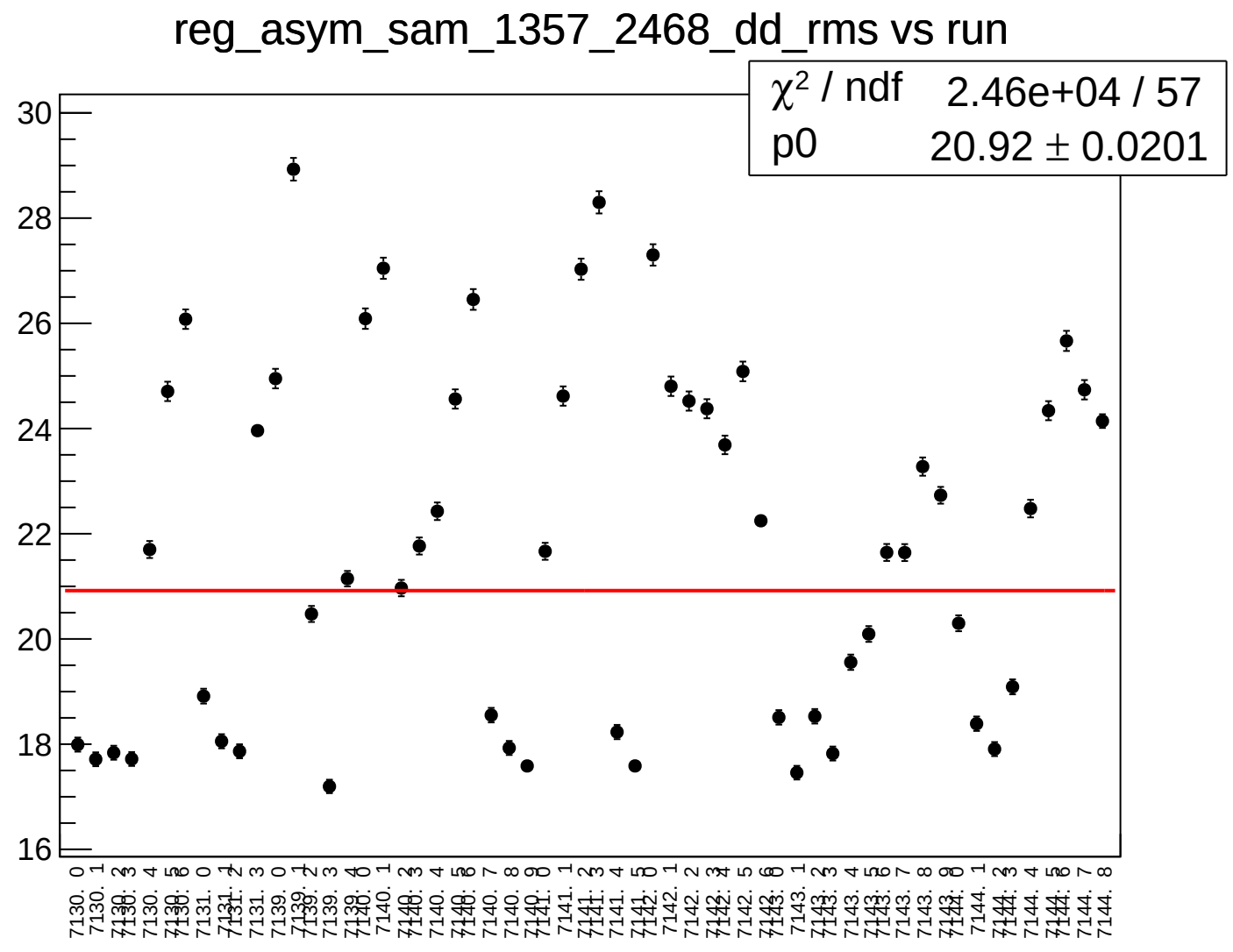

asym_sam_2468_avg_mean vs run
χ² / ndf 63.06 / 57
p0 −1462 ± 827.9
pull
Entries 58
Mean 615.2
Std Dev 584.7

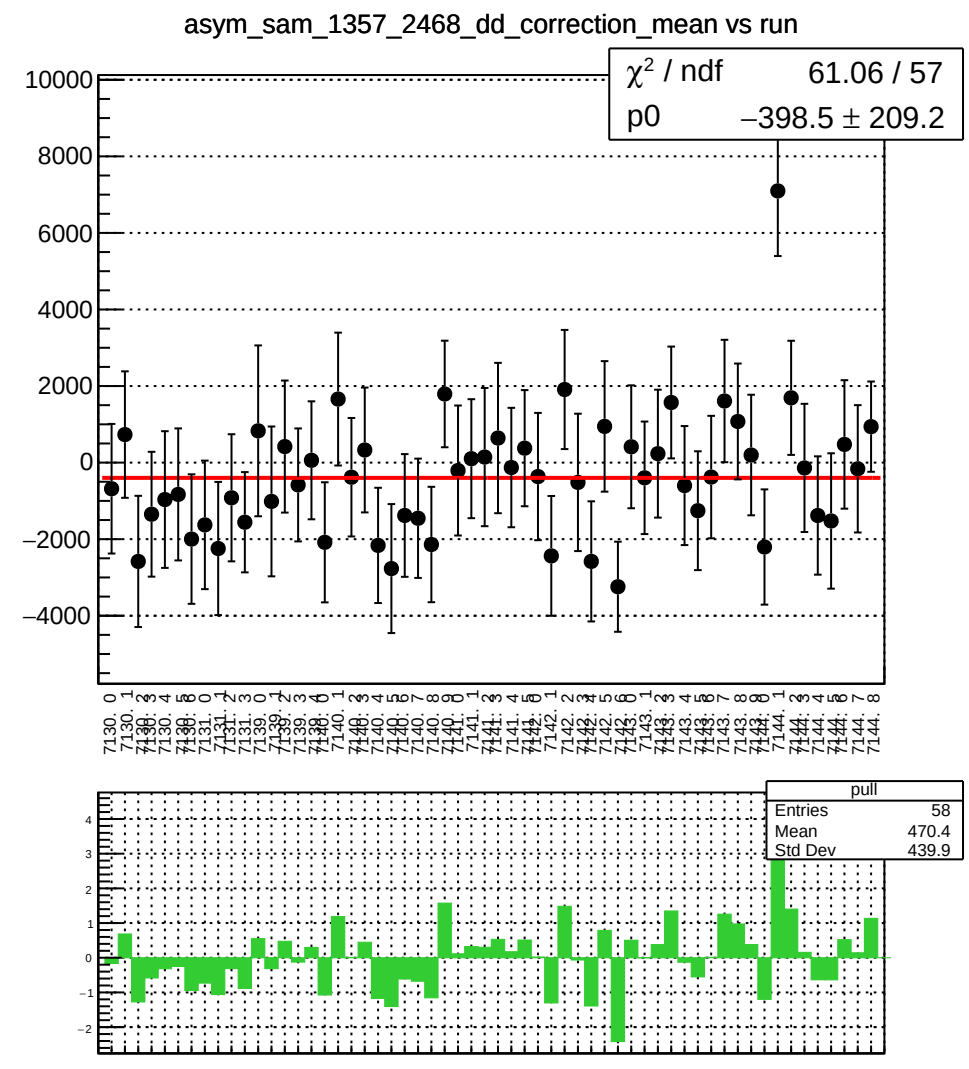

pull1D
Entries 58
Mean 0.007348
Std Dev 1.043

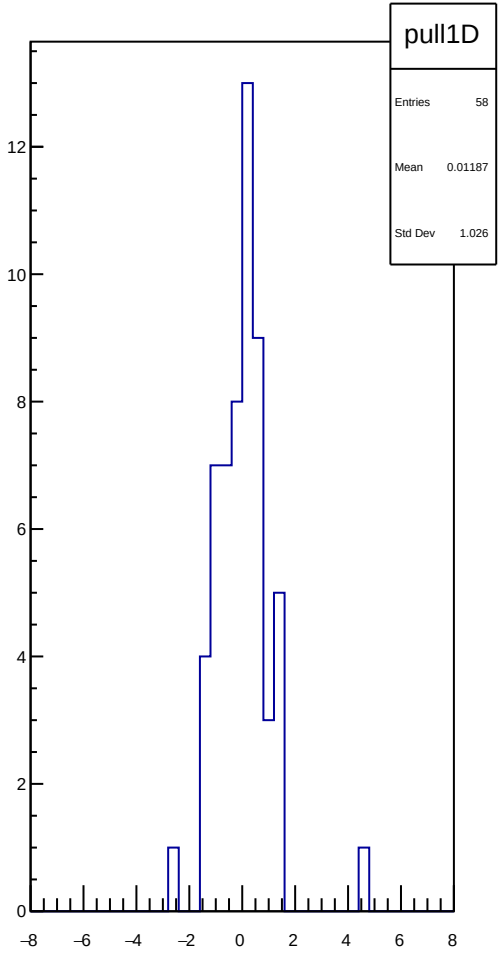

asym_sam_2468_avg_rms vs run
χ^2 / ndf 7613 / 57
p0 614 ± 0.5854
900
850
800
750
700
650
600
550

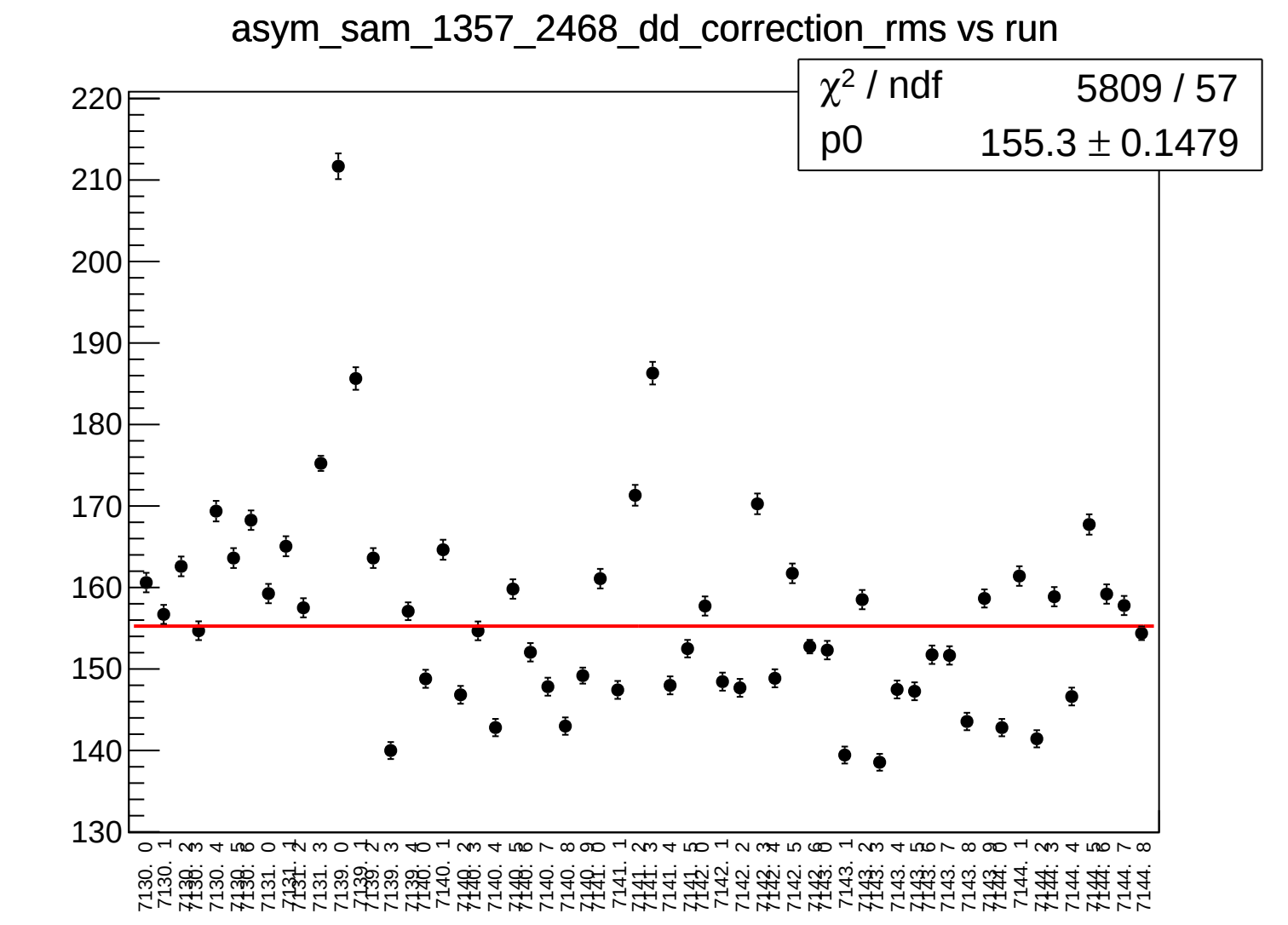

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 53.21 / 57
p0 −21.74 ± 28.42
pull
Entries 58
Mean 95.82
Std Dev 59.71

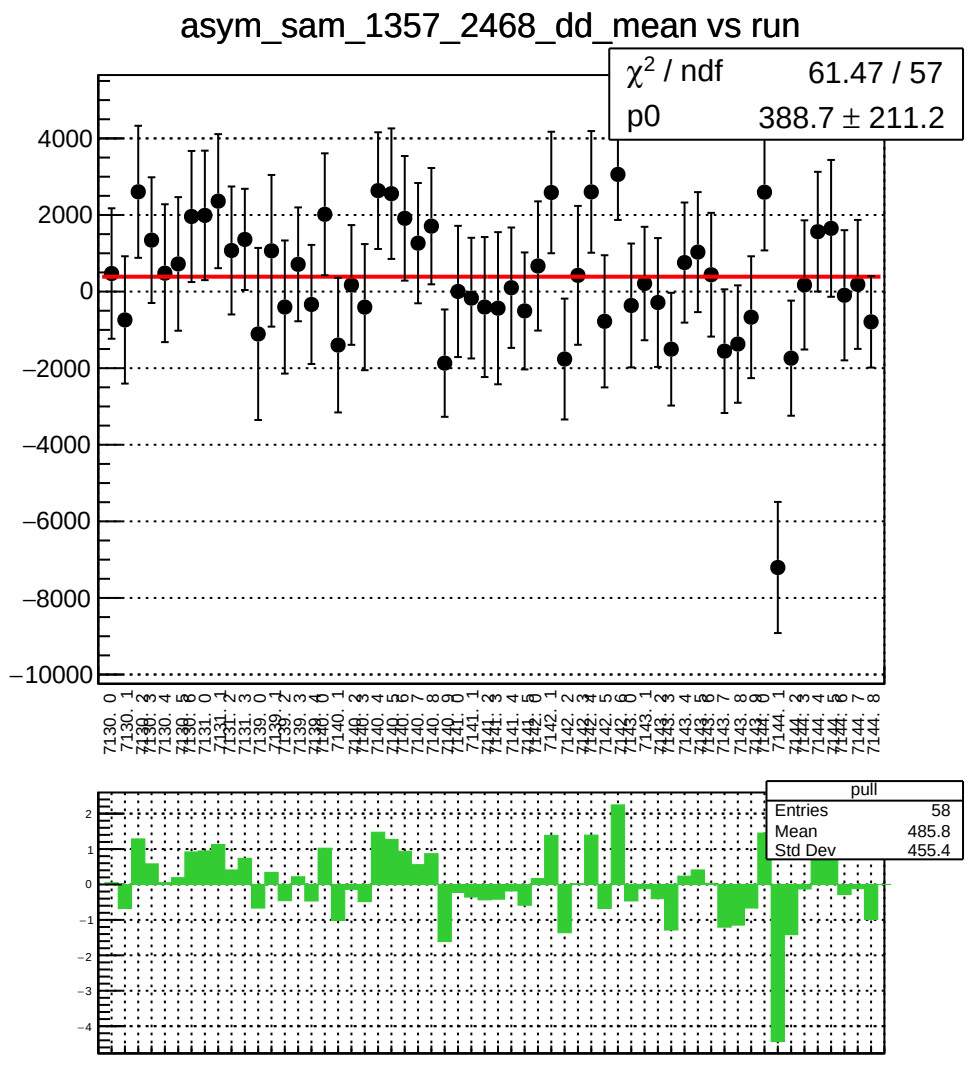

pull1D
Entries 58
Mean 0.03181
Std Dev 0.9572

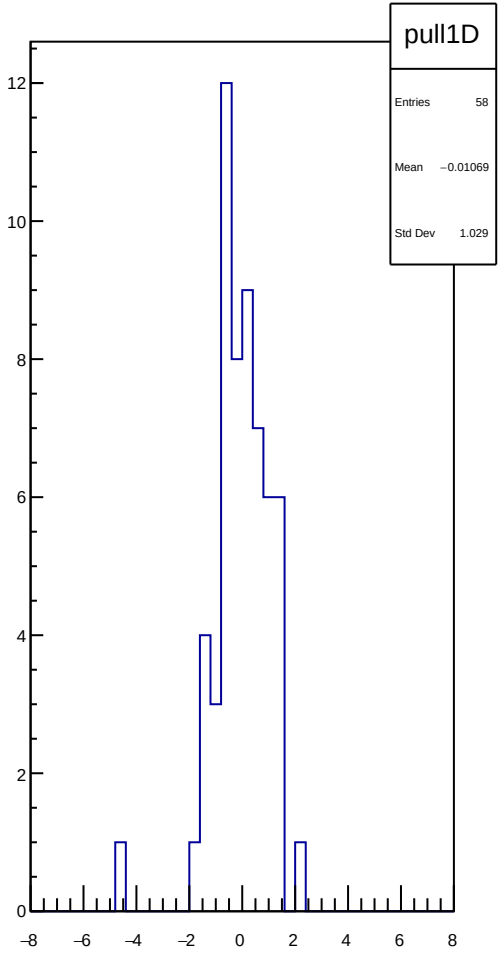

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.46e+04 / 57
p0 20.92 ± 0.0201
30
28
26
24
22
20
18
16

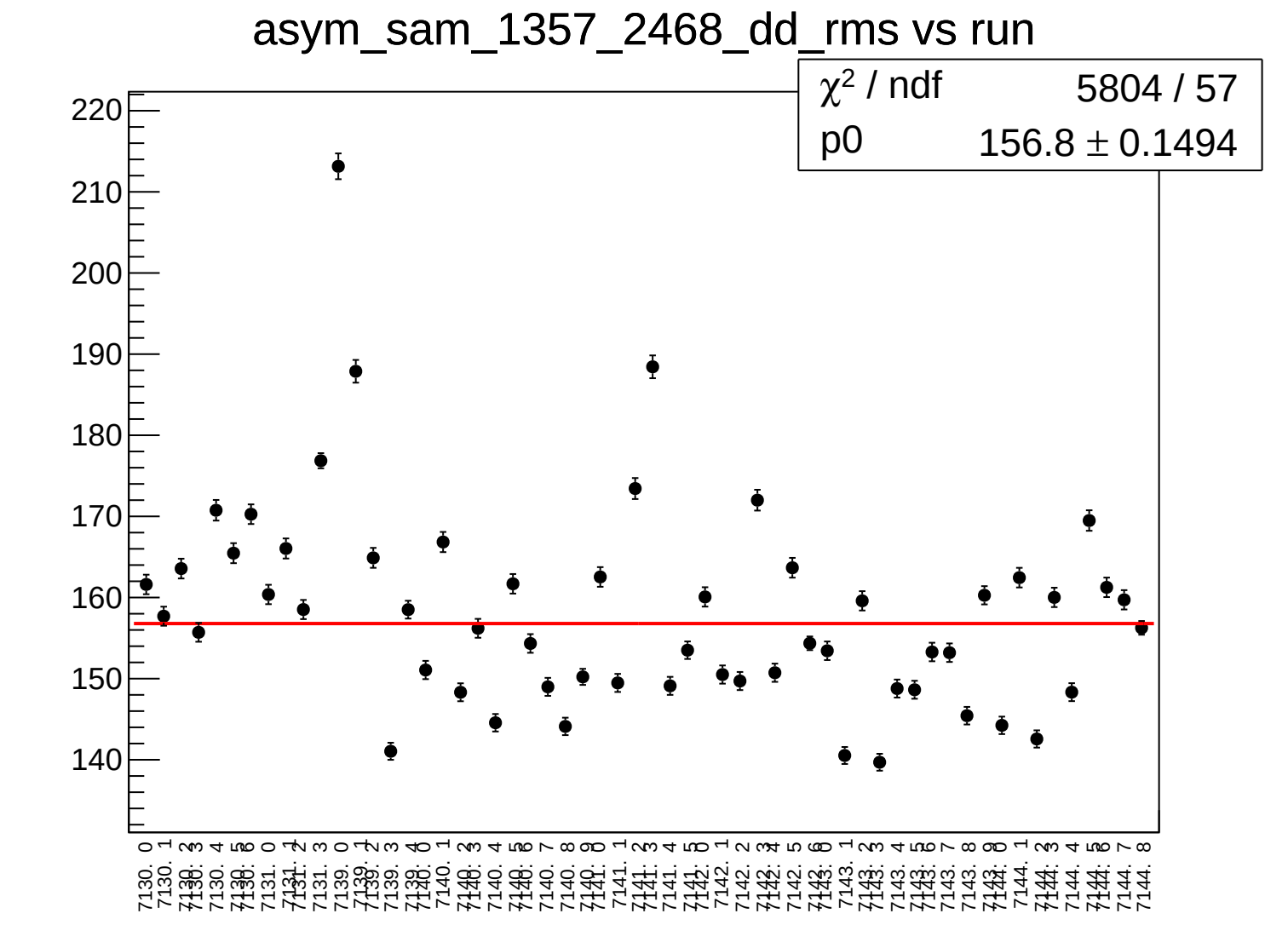

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 61.06 / 57
p0 −398.5 ± 209.2
pull
Entries 58
Mean 470.4
Std Dev 439.9

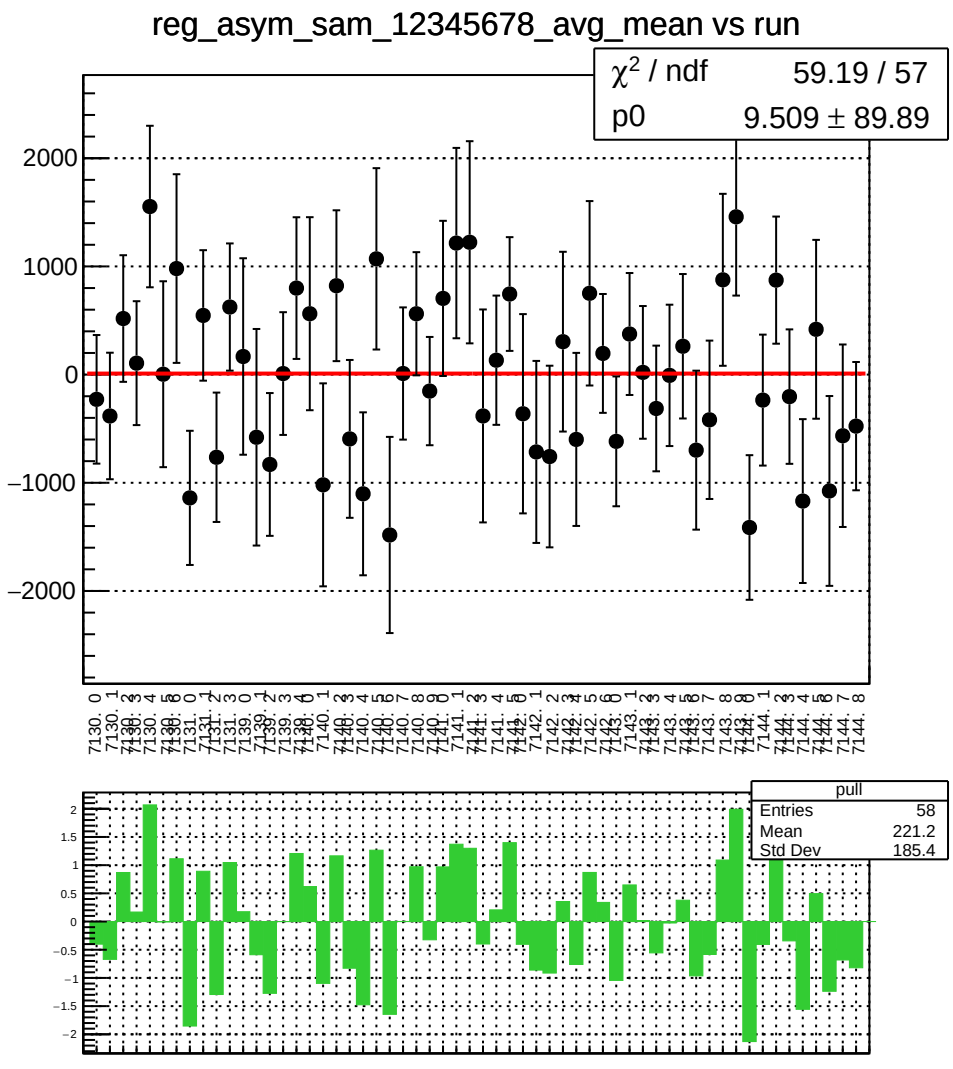

pull1D
Entries 58
Mean 0.01187
Std Dev 1.026

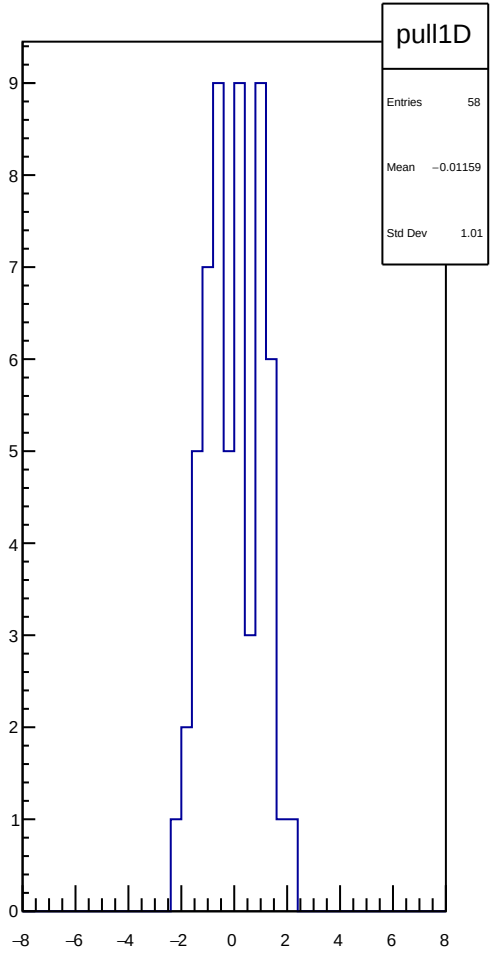

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 5809 / 57
p0 155.3 ± 0.1479
220
210
200
190
180
170
160
150
140
130

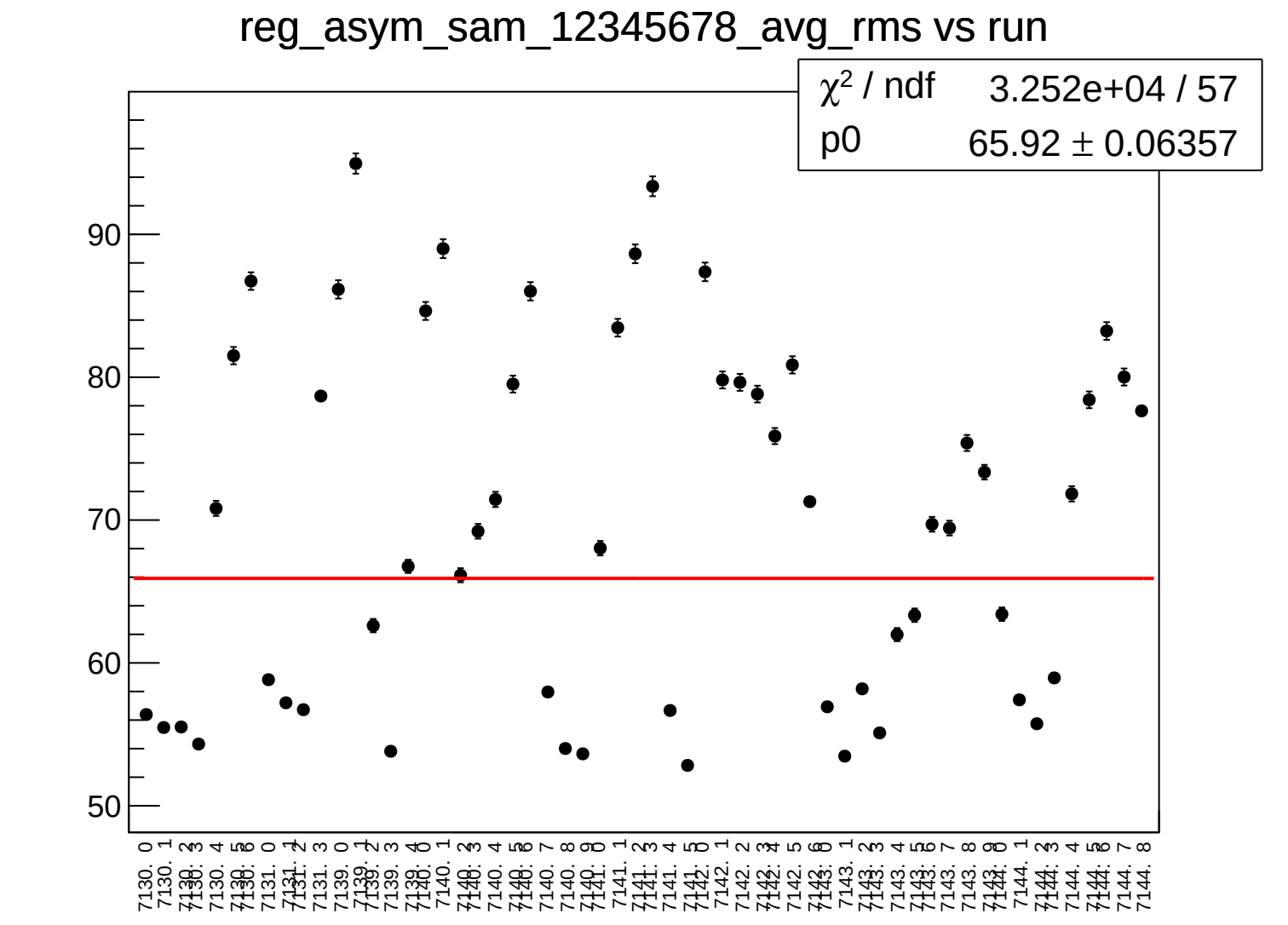

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 61.47 / 57
p0 388.7 ± 211.2
pull
Entries 58
Mean 485.8
Std Dev 455.4

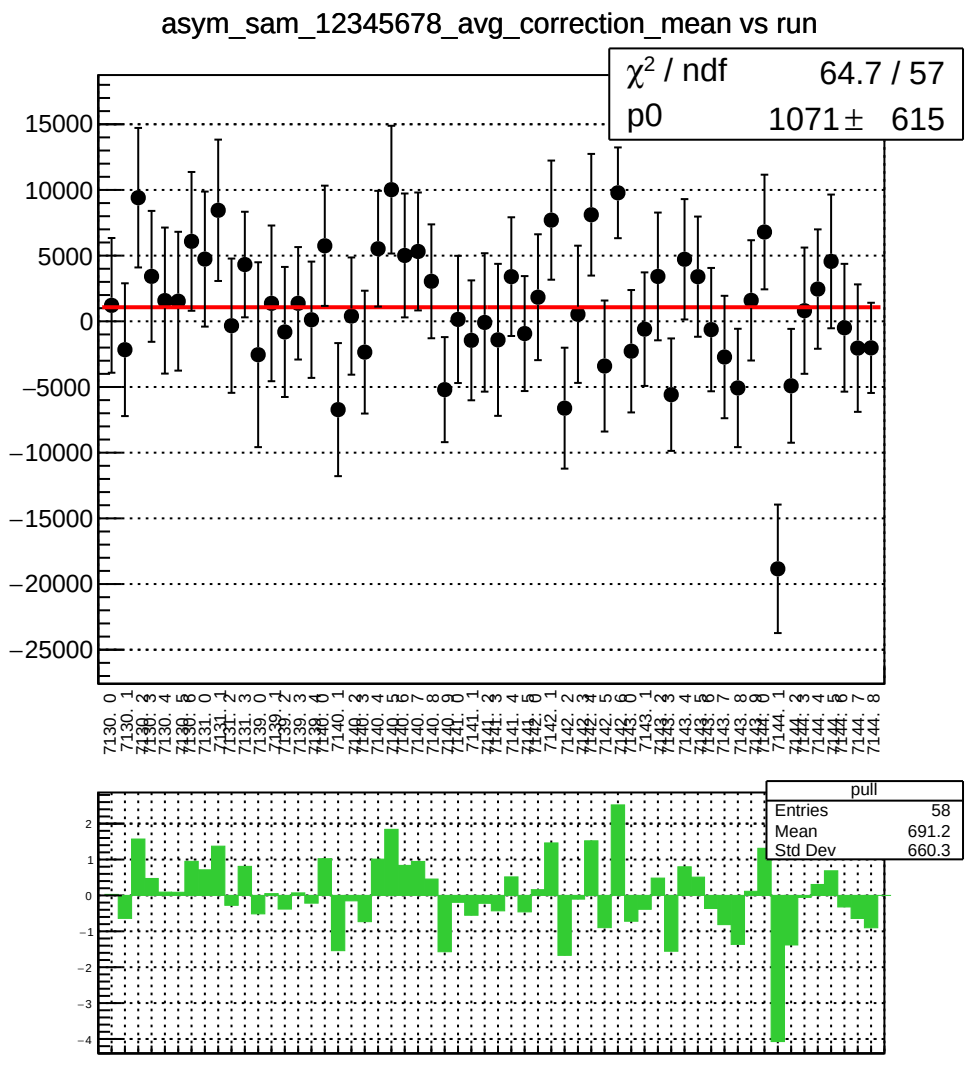

pull1D
Entries 58
Mean −0.01069
Std Dev 1.029

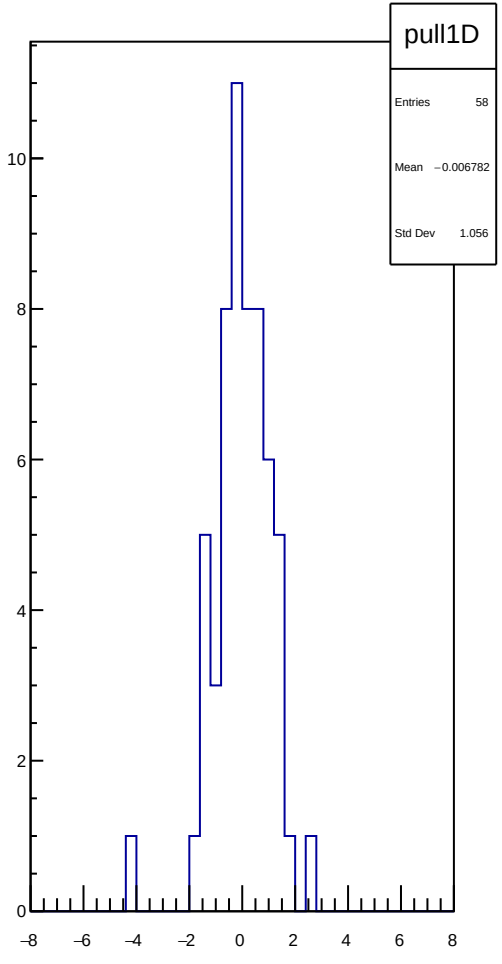

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 5804 / 57
p0 156.8 ± 0.1494
220
210
200
190
180
170
160
150
140

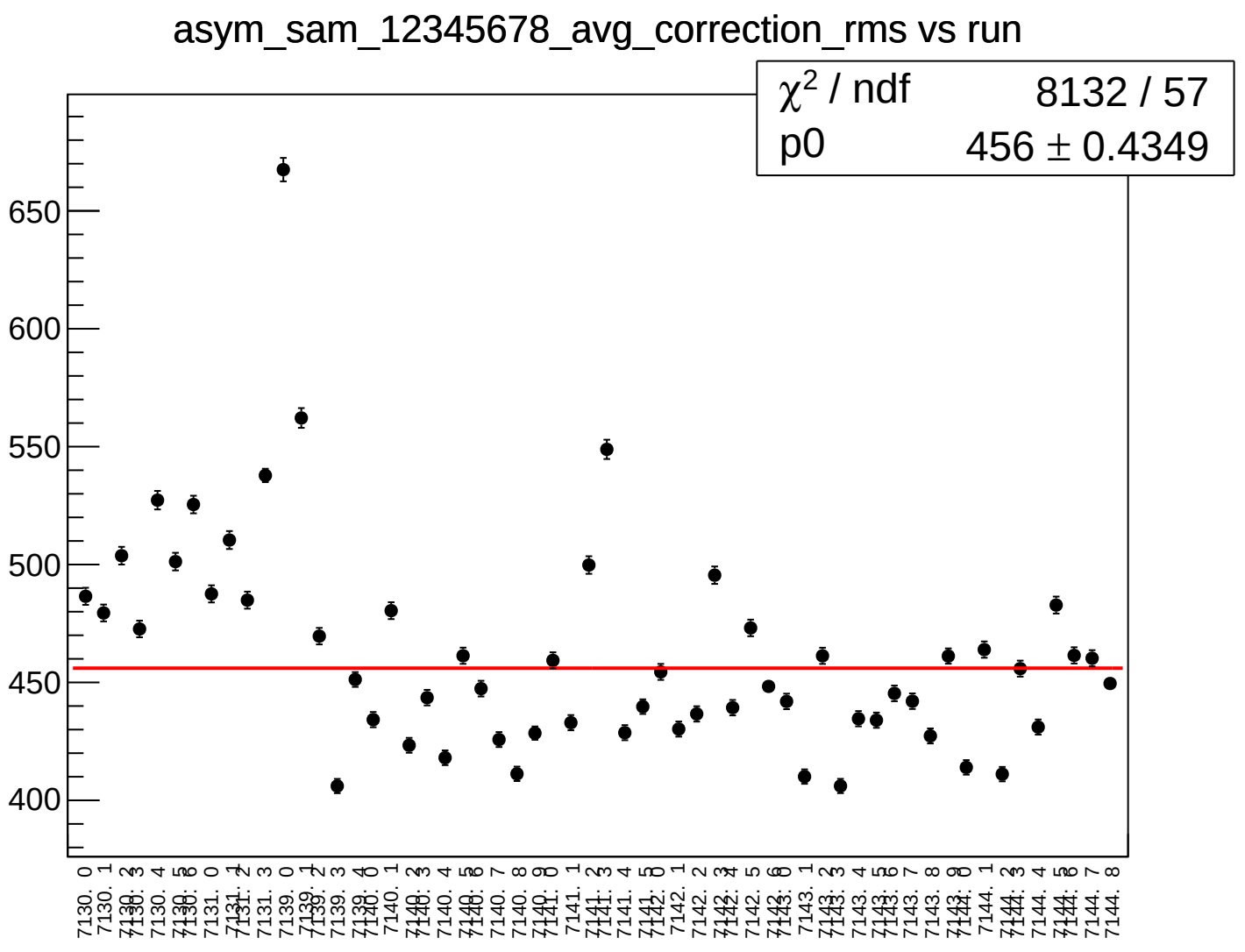

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 59.19 / 57
p0 9.509 ± 89.89
2000
1000
0
−1000
−2000
pull
Entries 58
Mean 221.2
Std Dev 185.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

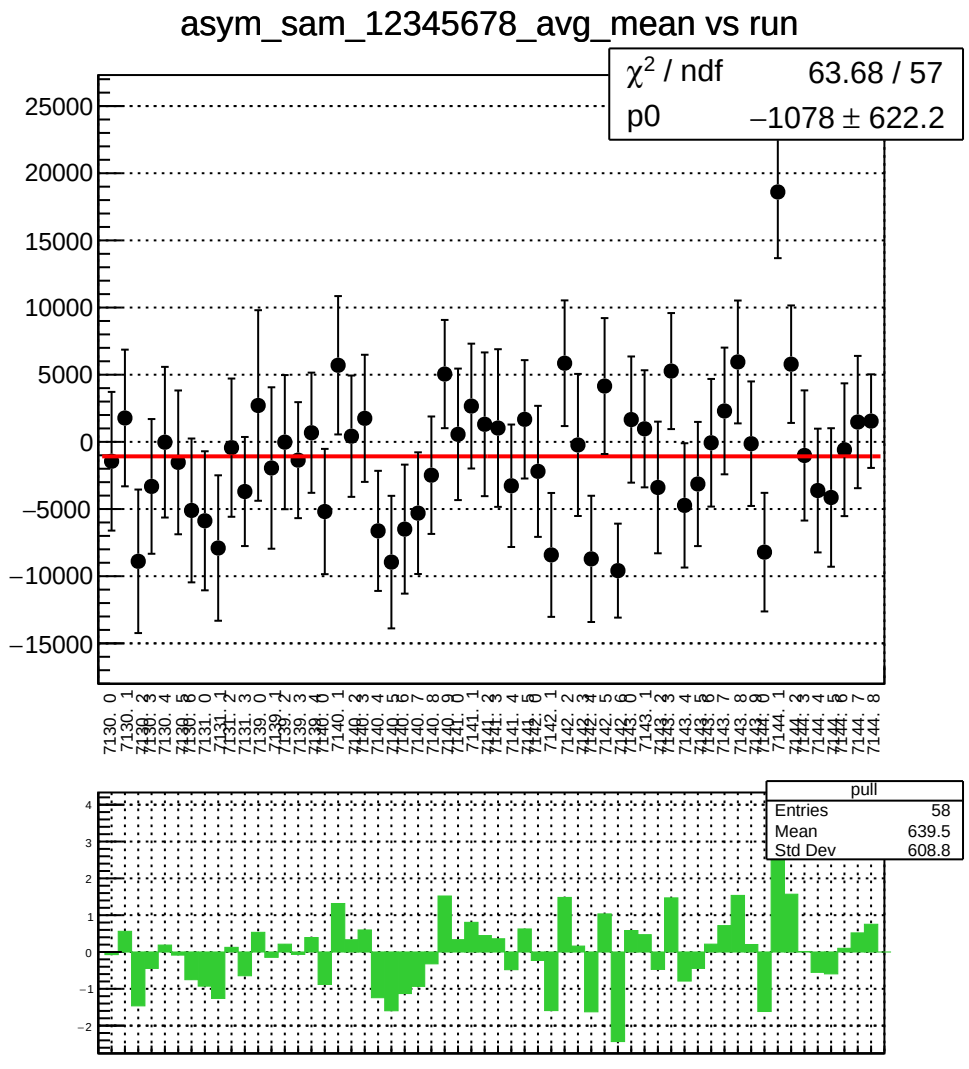

pull1D
Entries 58
Mean −0.01159
Std Dev 1.01
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

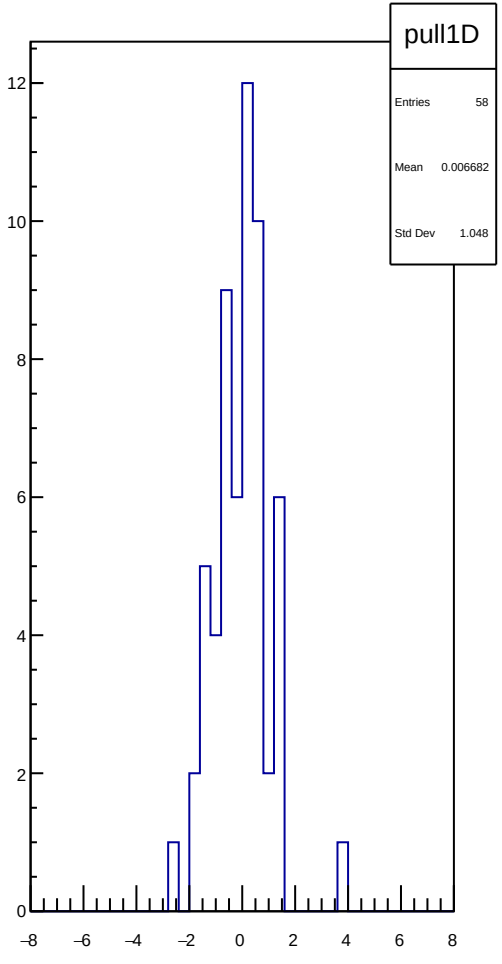

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.252e+04 / 57
p0 65.92 ± 0.06357
90
80
70
60
50

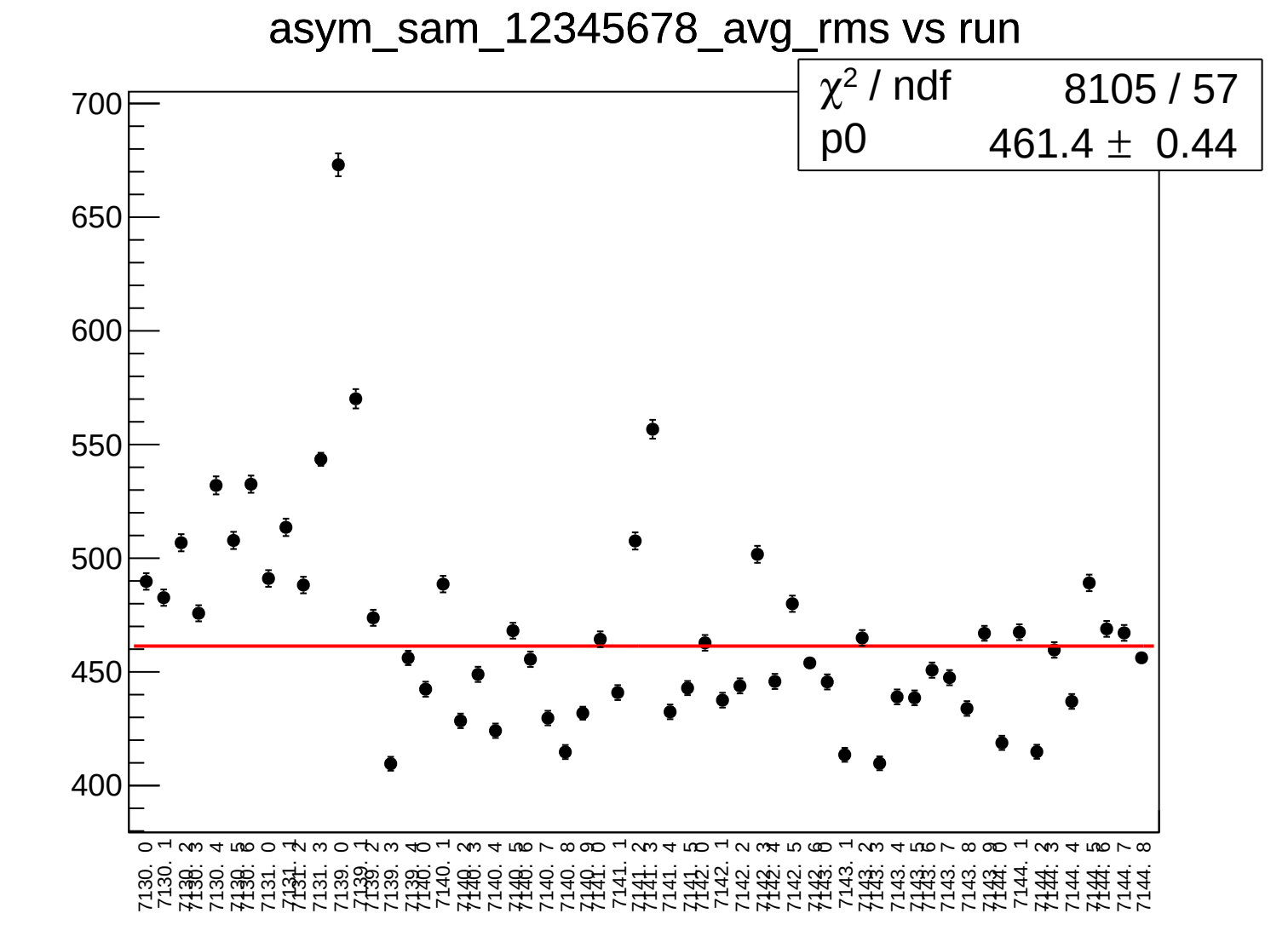

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 64.7 / 57
p0 1071 ± 615
pull
Entries 58
Mean 691.2
Std Dev 660.3

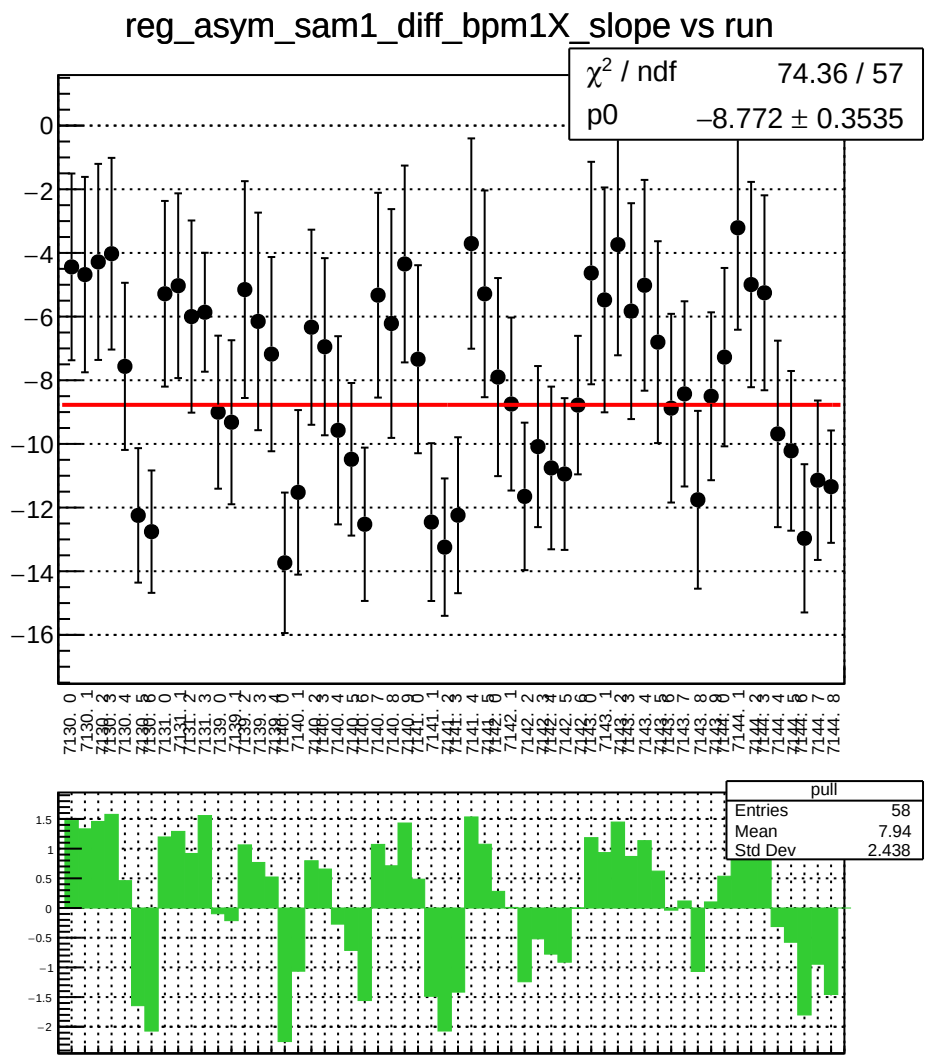

pull1D
Entries 58
Mean −0.006782
Std Dev 1.056

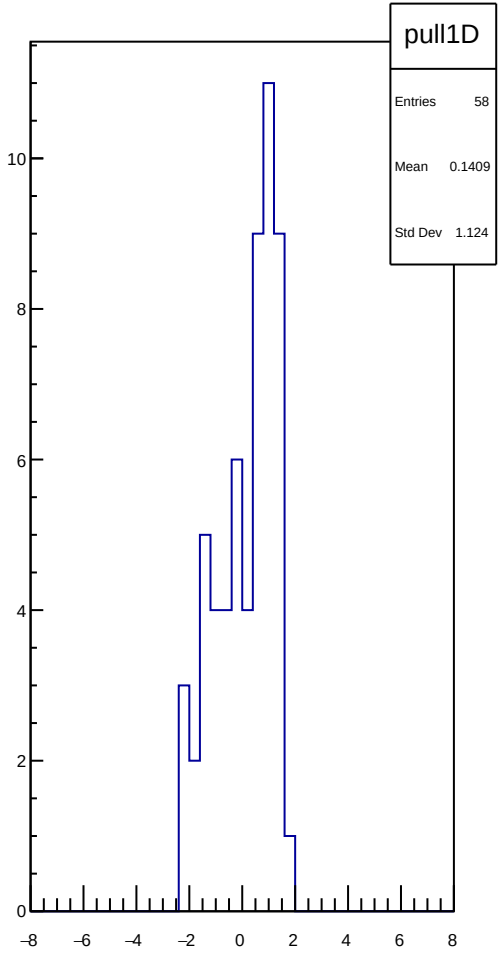

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 8132 / 57
p0 456 ± 0.4349
650
600
550
500
450
400

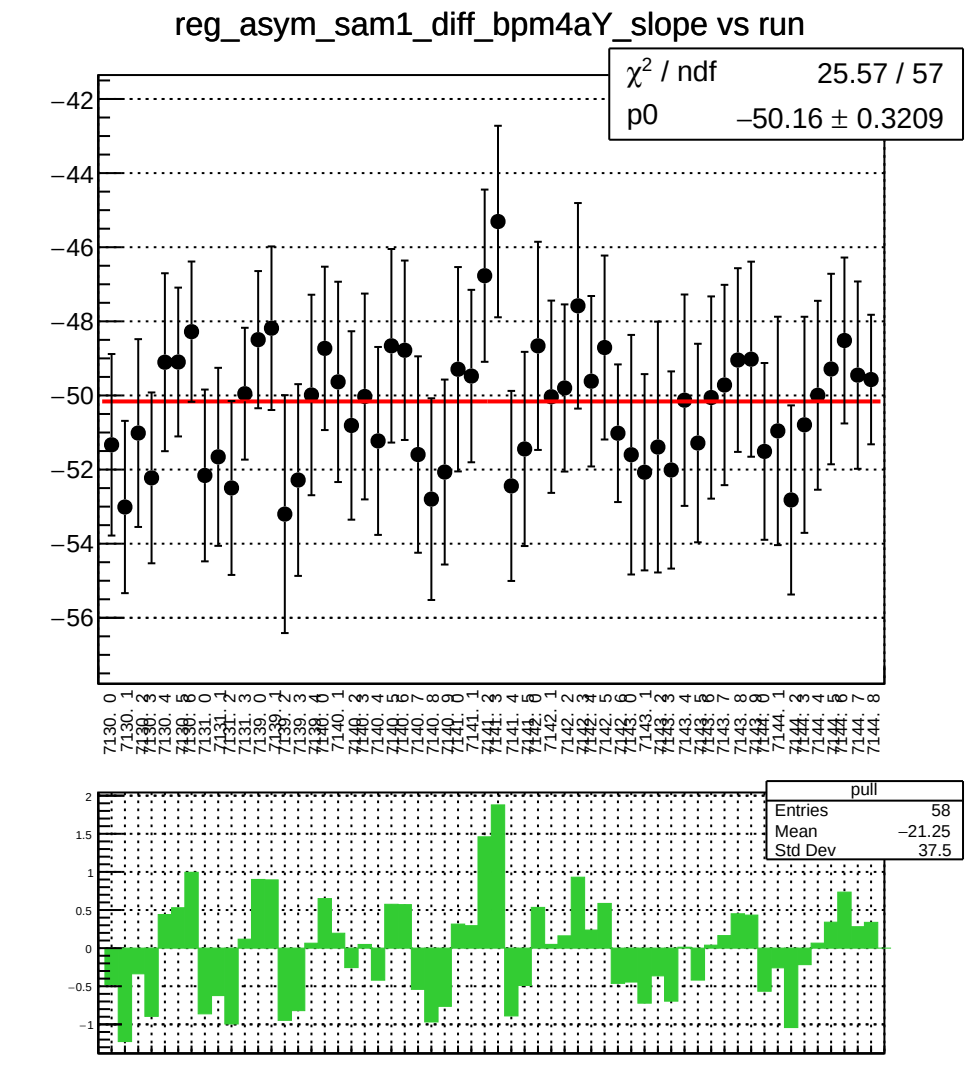

asym_sam_12345678_avg_mean vs run
χ² / ndf 63.68 / 57
p0 −1078 ± 622.2
pull
Entries 58
Mean 639.5
Std Dev 608.8

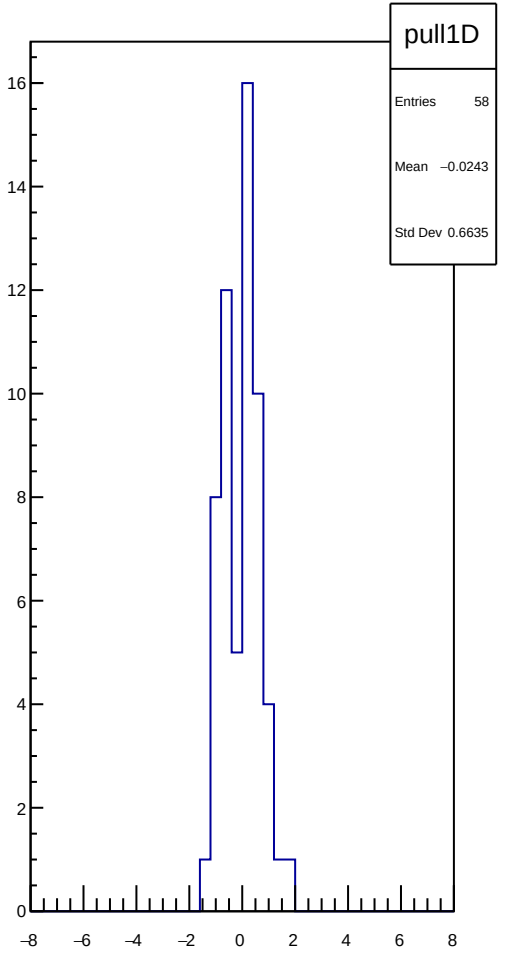

pull1D
Entries 58
Mean 0.006682
Std Dev 1.048

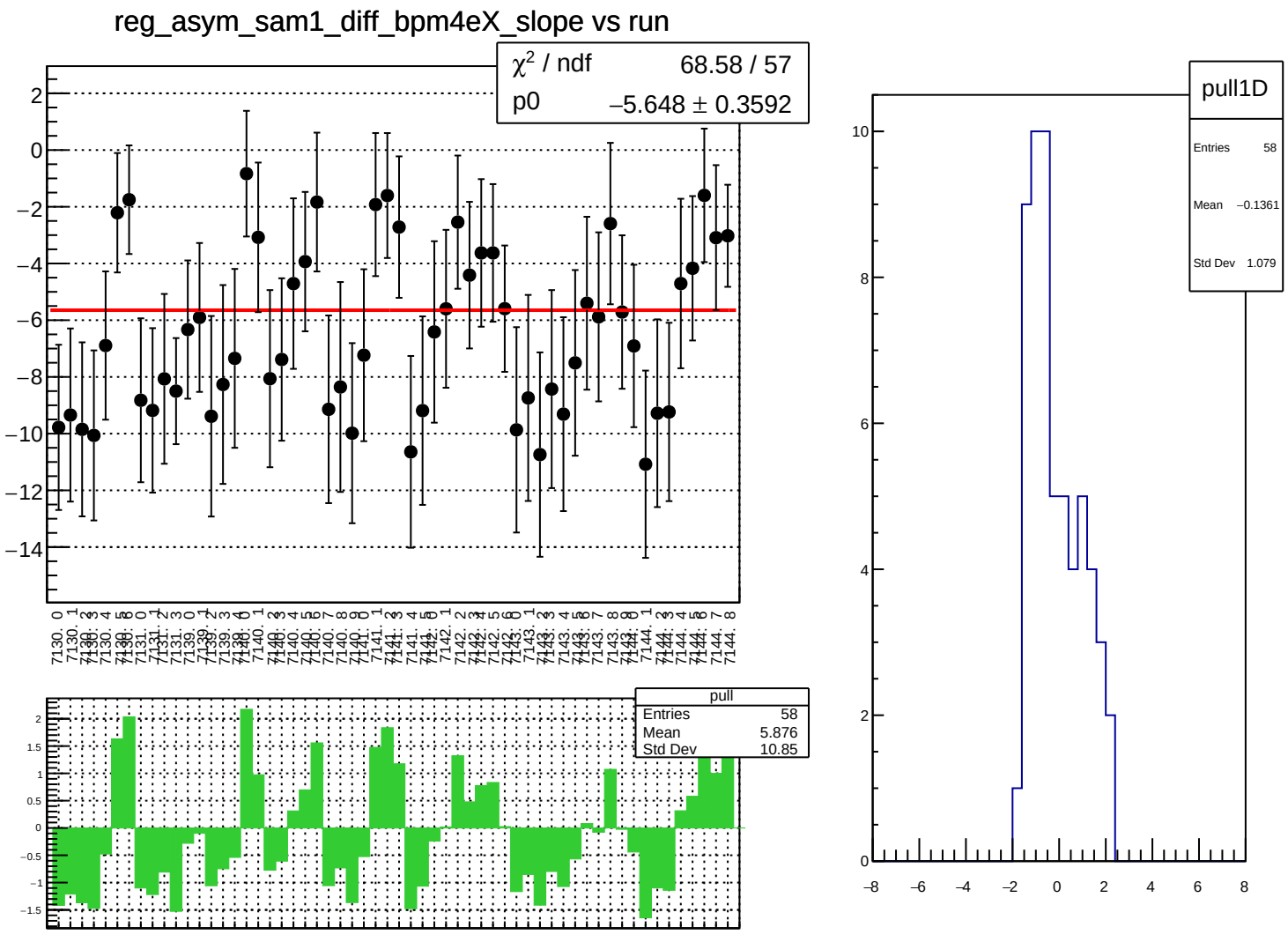

asym_sam_12345678_avg_rms vs run
χ² / ndf 8105 / 57
p0 461.4 ± 0.44
700
650
600
550
500
450
400

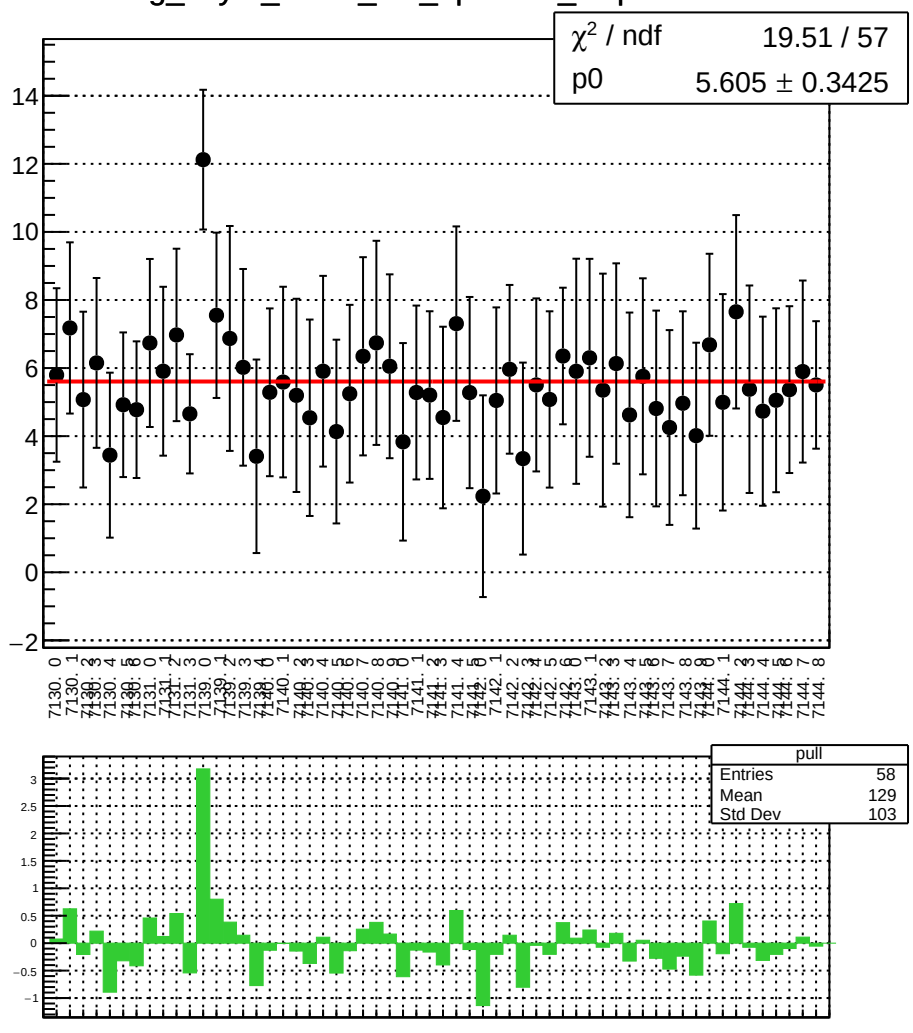

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 74.36 / 57
p0 −8.772 ± 0.3535
pull
Entries 58
Mean 7.94
Std Dev 2.438

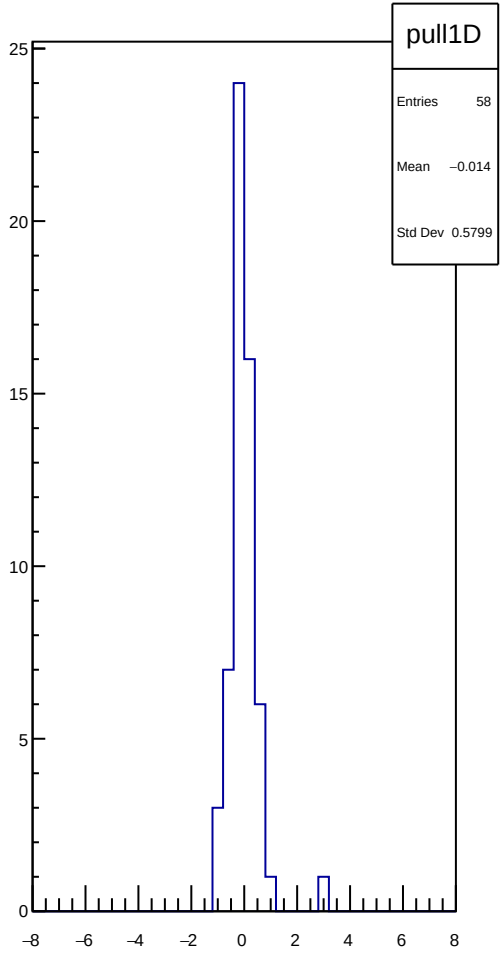

pull1D
Entries 58
Mean 0.1409
Std Dev 1.124

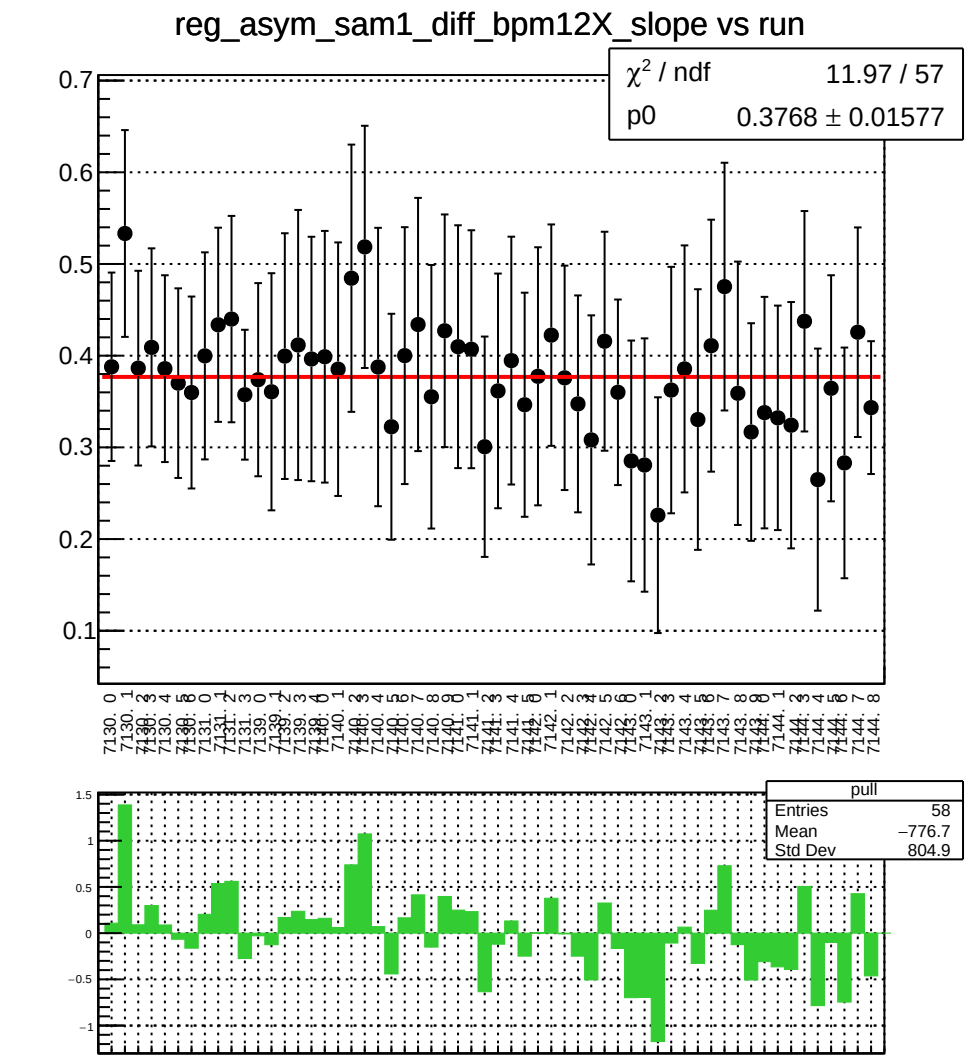

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 25.57 / 57
p0 −50.16 ± 0.3209
pull
Entries 58
Mean −21.25
Std Dev 37.5

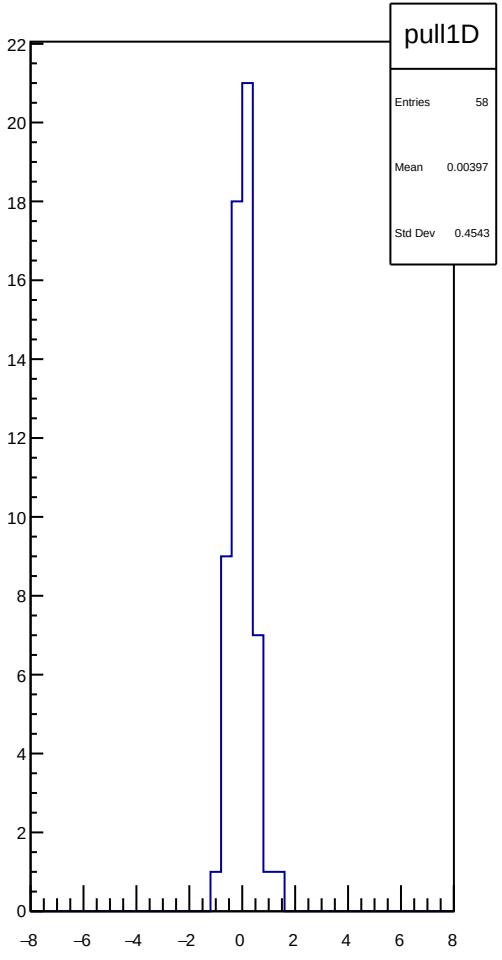

pull1D
Entries 58
Mean −0.0243
Std Dev 0.6635

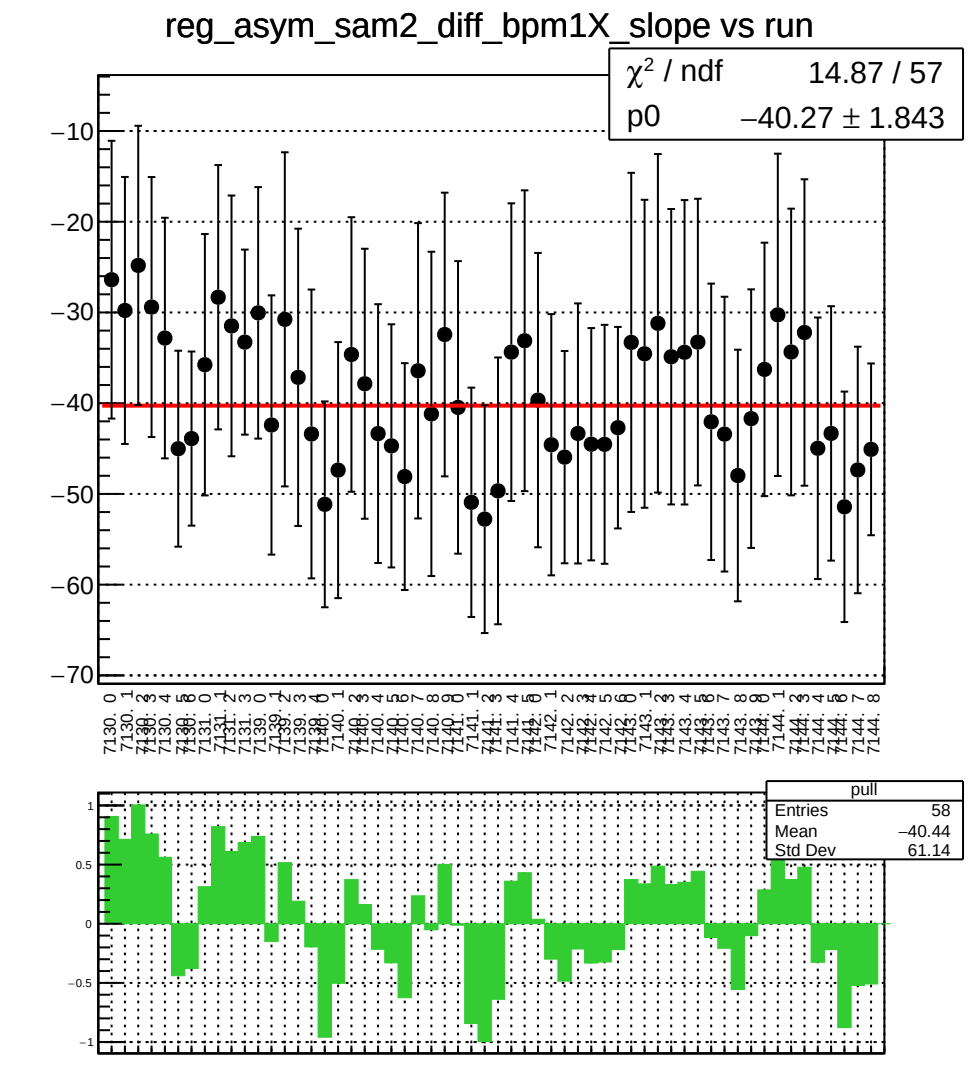

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 68.58 / 57
p0 −5.648 ± 0.3592
pull
Entries 58
Mean 5.876
Std Dev 10.85
pull1D
Entries 58
Mean −0.1361
Std Dev 1.079

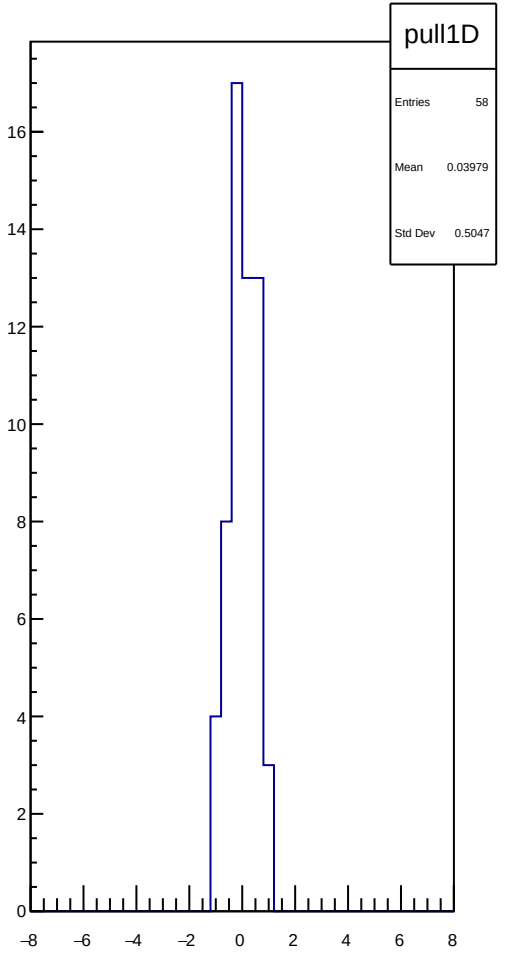

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 19.51 / 57
p0 5.605 ± 0.3425
pull
Entries 58
Mean 129
Std Dev 103

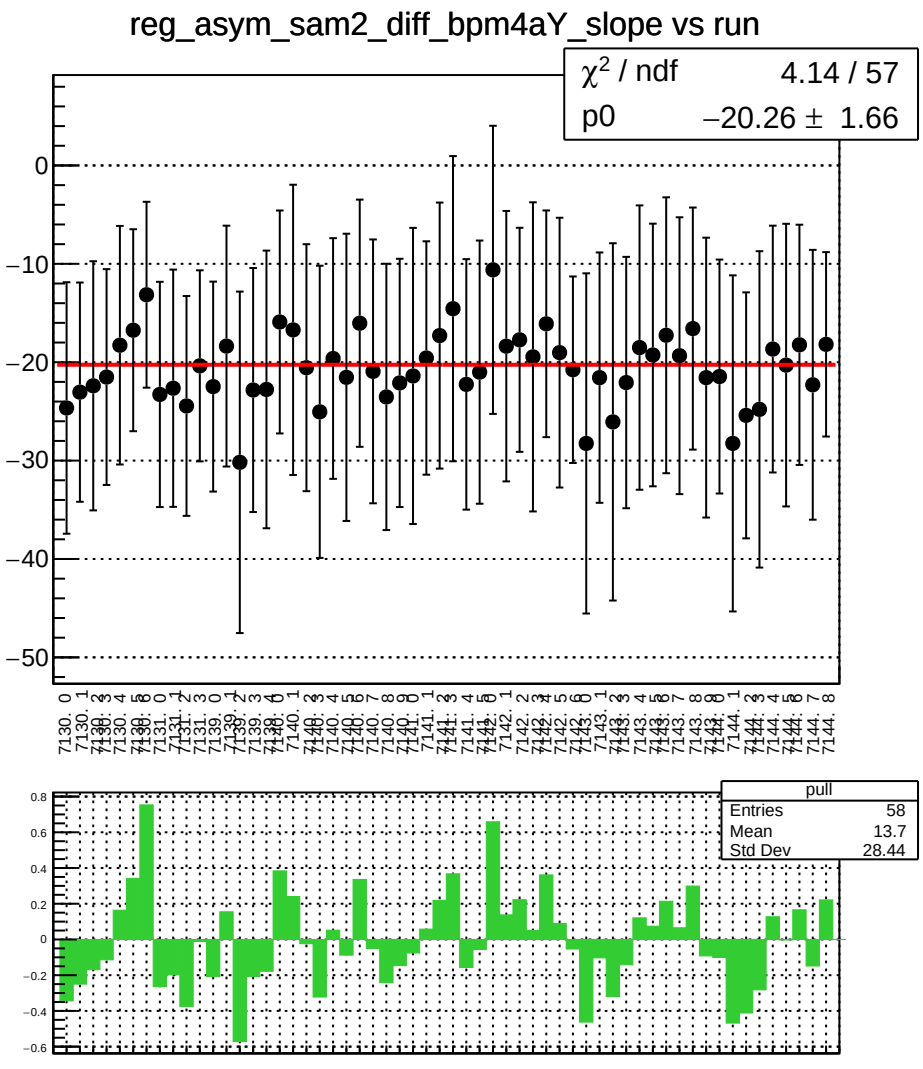

pull1D
Entries 58
Mean −0.014
Std Dev 0.5799

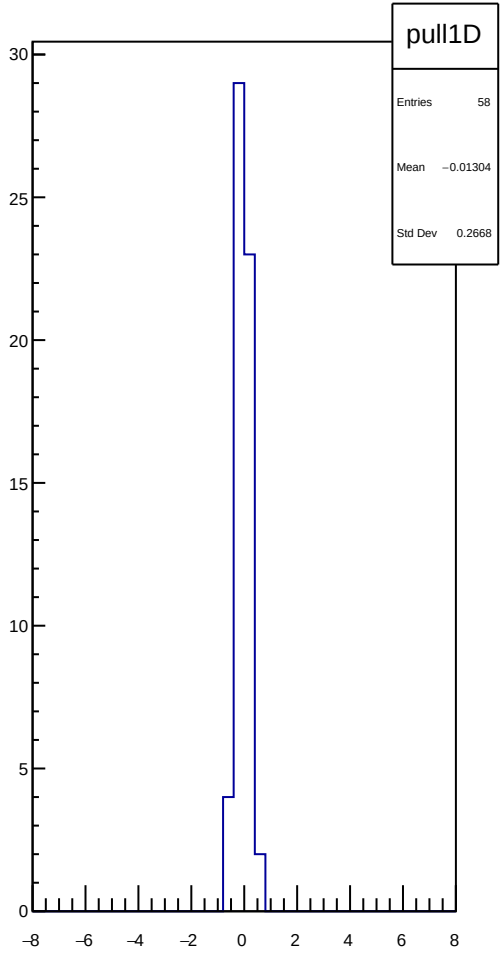

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 11.97 / 57
p0 0.3768 ± 0.01577
pull
Entries 58
Mean −776.7
Std Dev 804.9

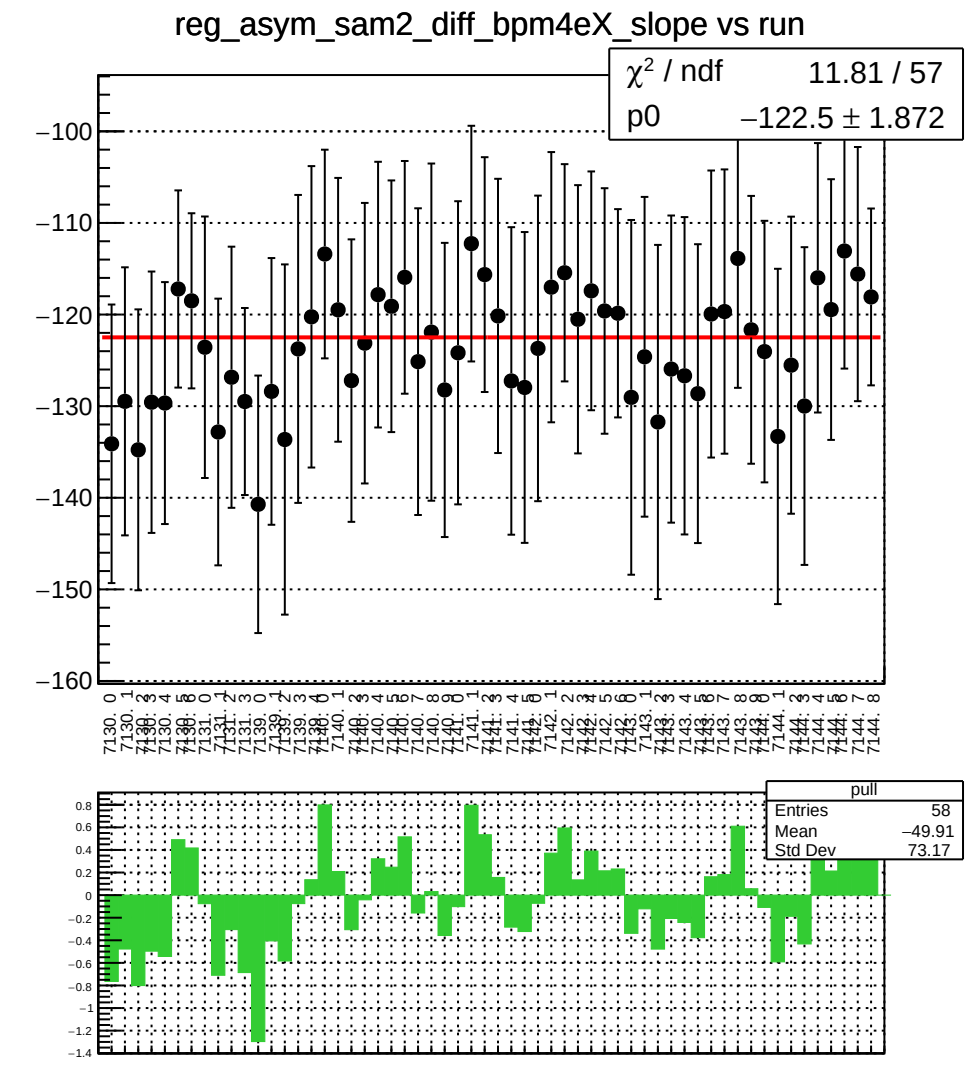

pull1D
Entries 58
Mean 0.00397
Std Dev 0.4543

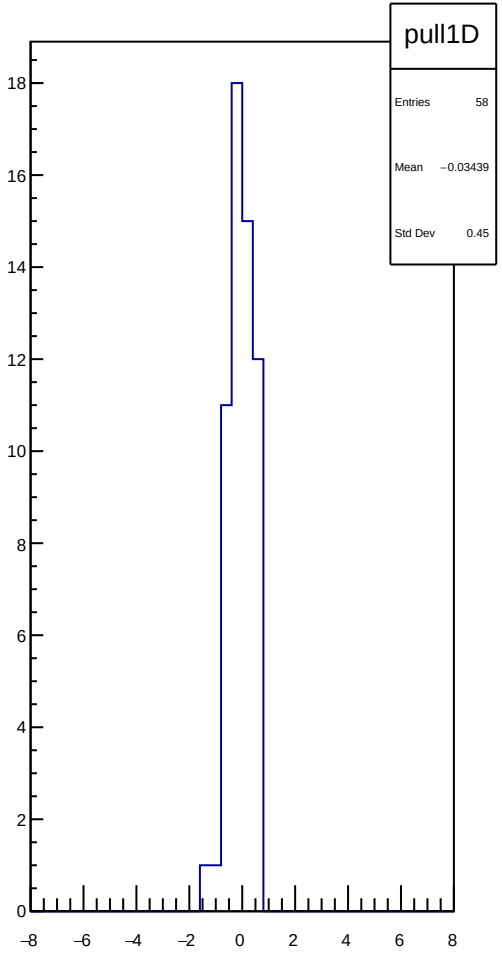

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 14.87 / 57
p0 −40.27 ± 1.843
pull
Entries 58
Mean −40.44
Std Dev 61.14

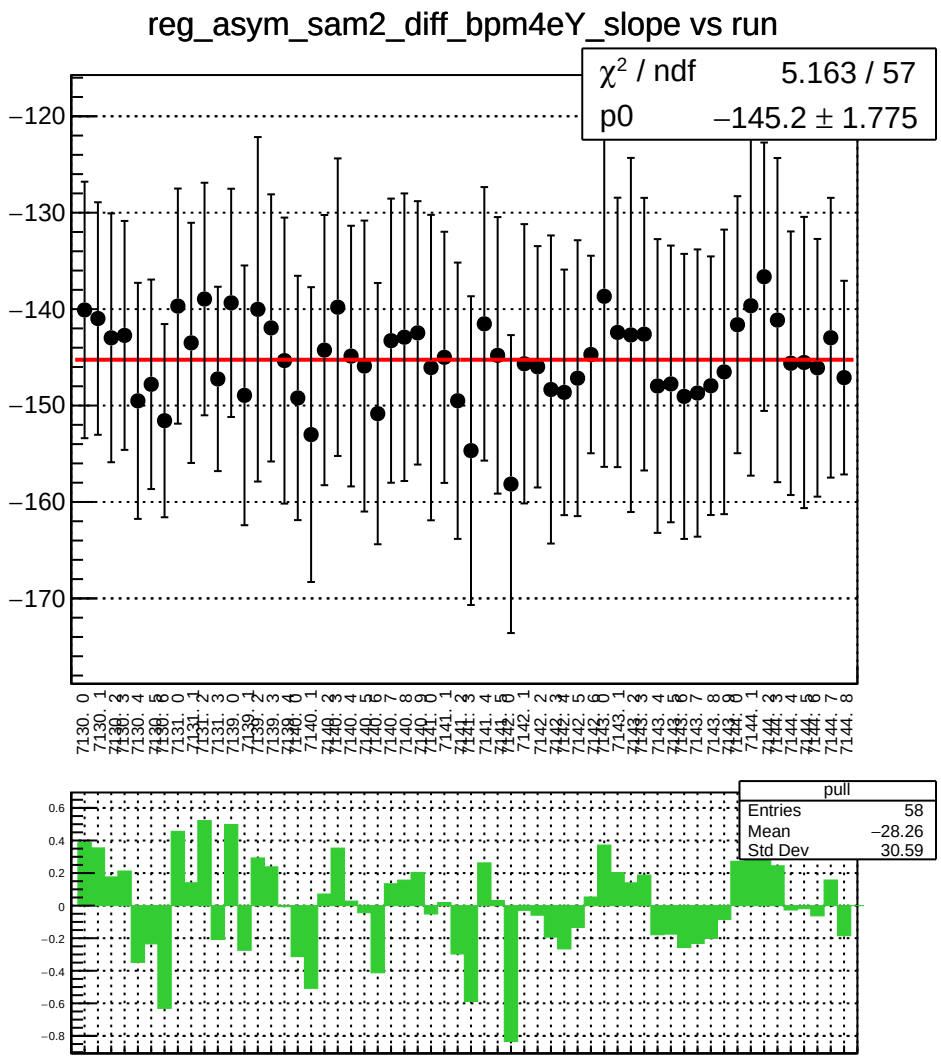

pull1D
Entries 58
Mean 0.03979
Std Dev 0.5047

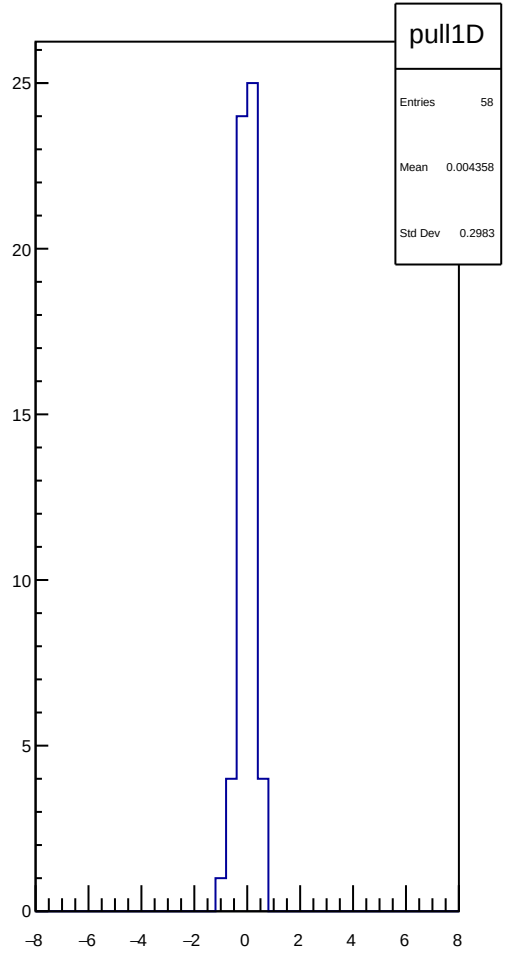

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 4.14 / 57
p0 −20.26 ± 1.66
pull
Entries 58
Mean 13.7
Std Dev 28.44

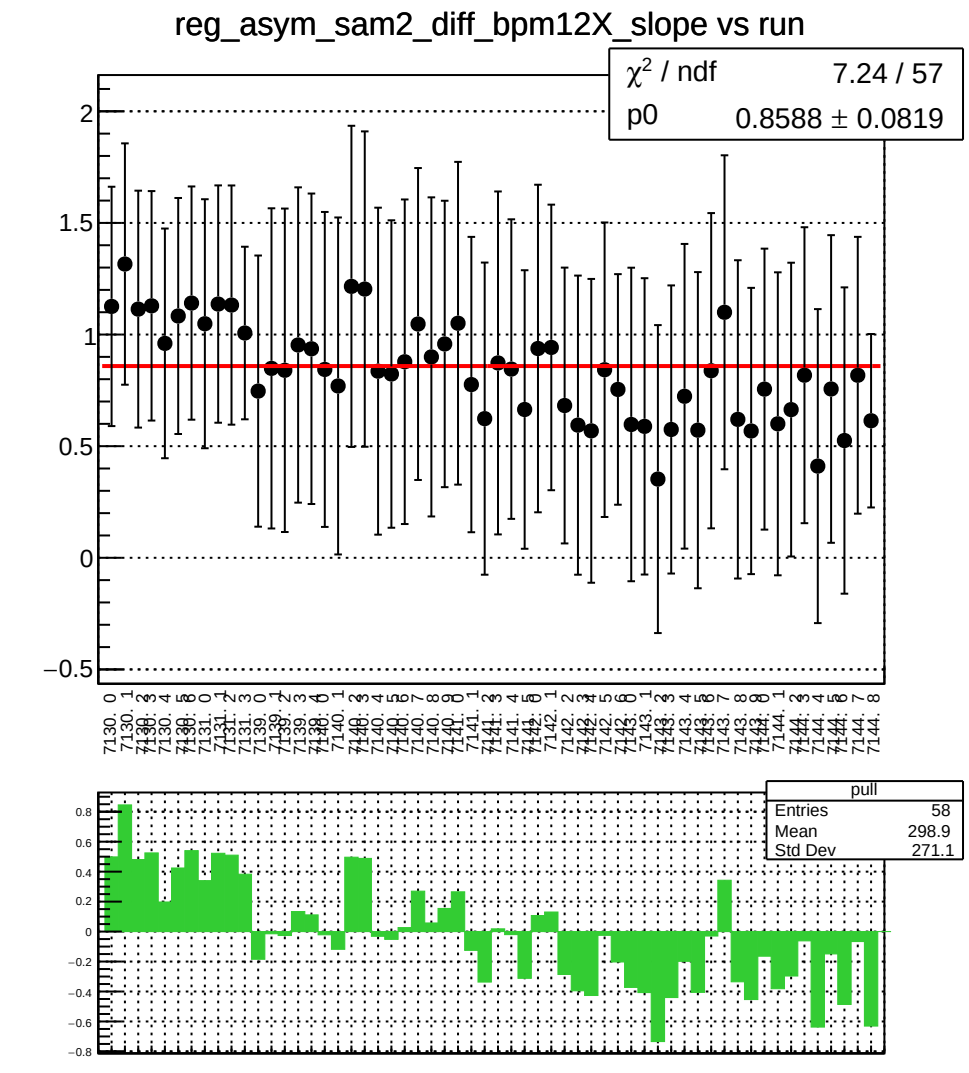

pull1D
Entries 58
Mean −0.01304
Std Dev 0.2668

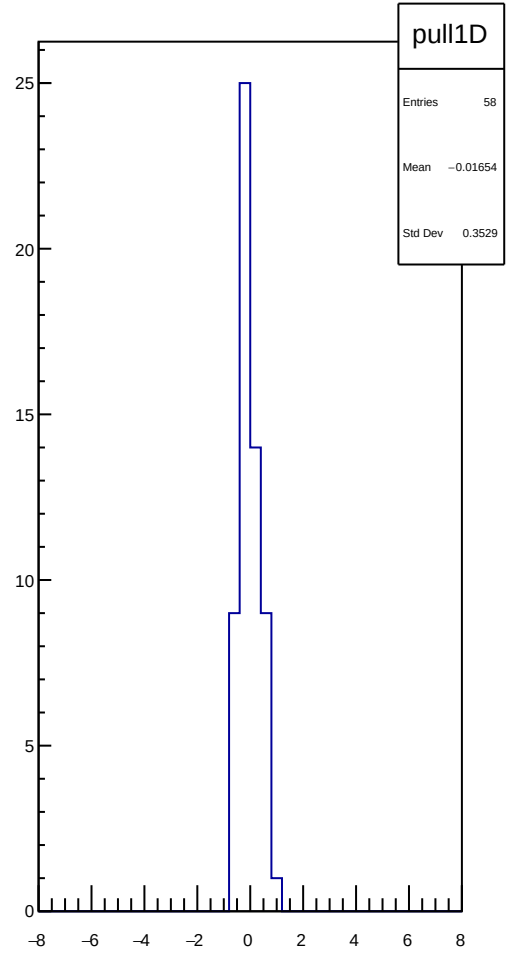

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 11.81 / 57
p0 −122.5 ± 1.872
pull
Entries 58
Mean −49.91
Std Dev 73.17

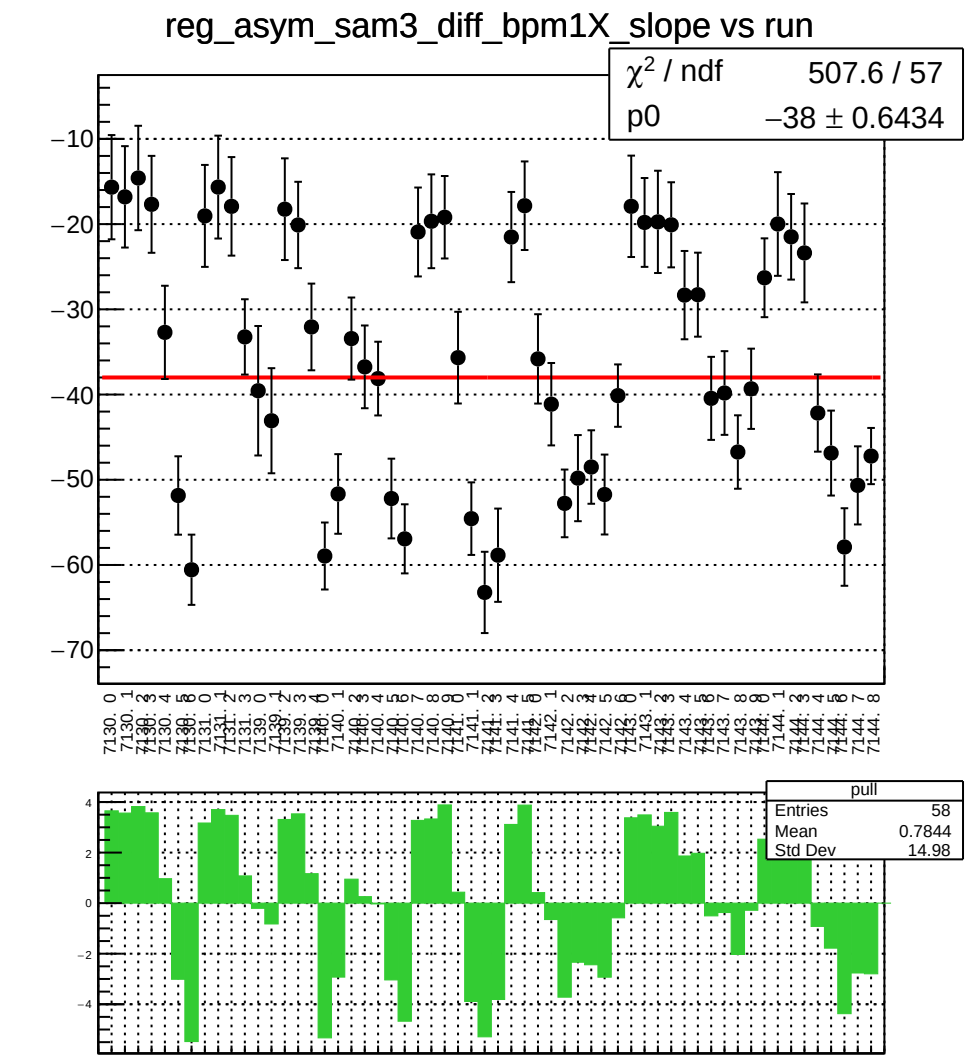

pull1D
Entries 58
Mean −0.03439
Std Dev 0.45

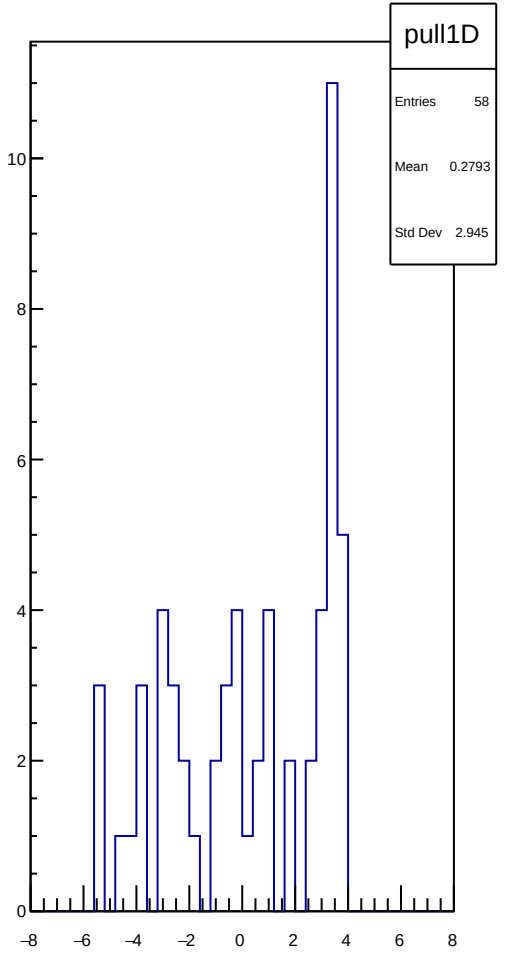

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 5.163 / 57
p0 −145.2 ± 1.775
pull
Entries 58
Mean −28.26
Std Dev 30.59

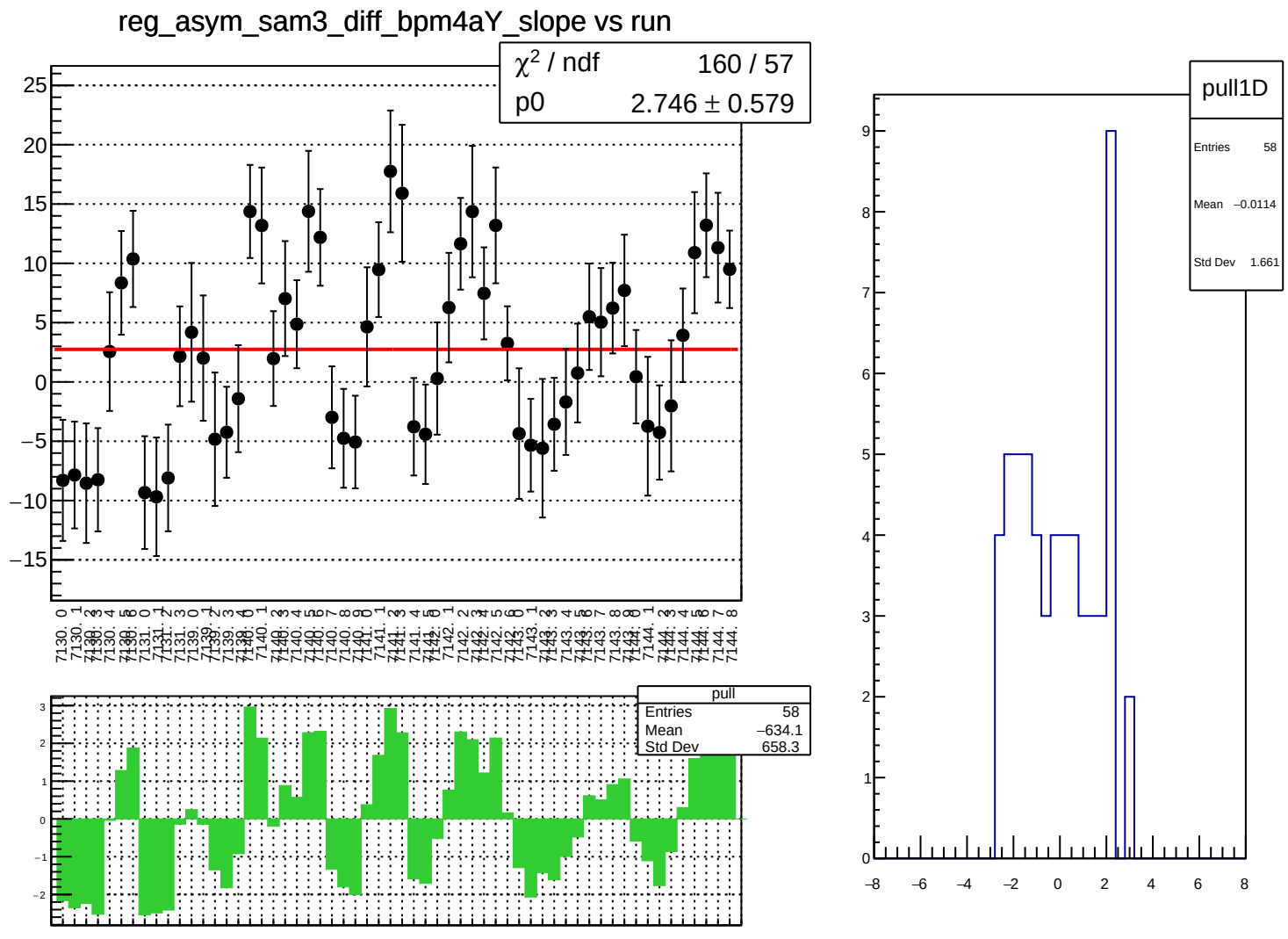

pull1D
Entries 58
Mean 0.004358
Std Dev 0.2983

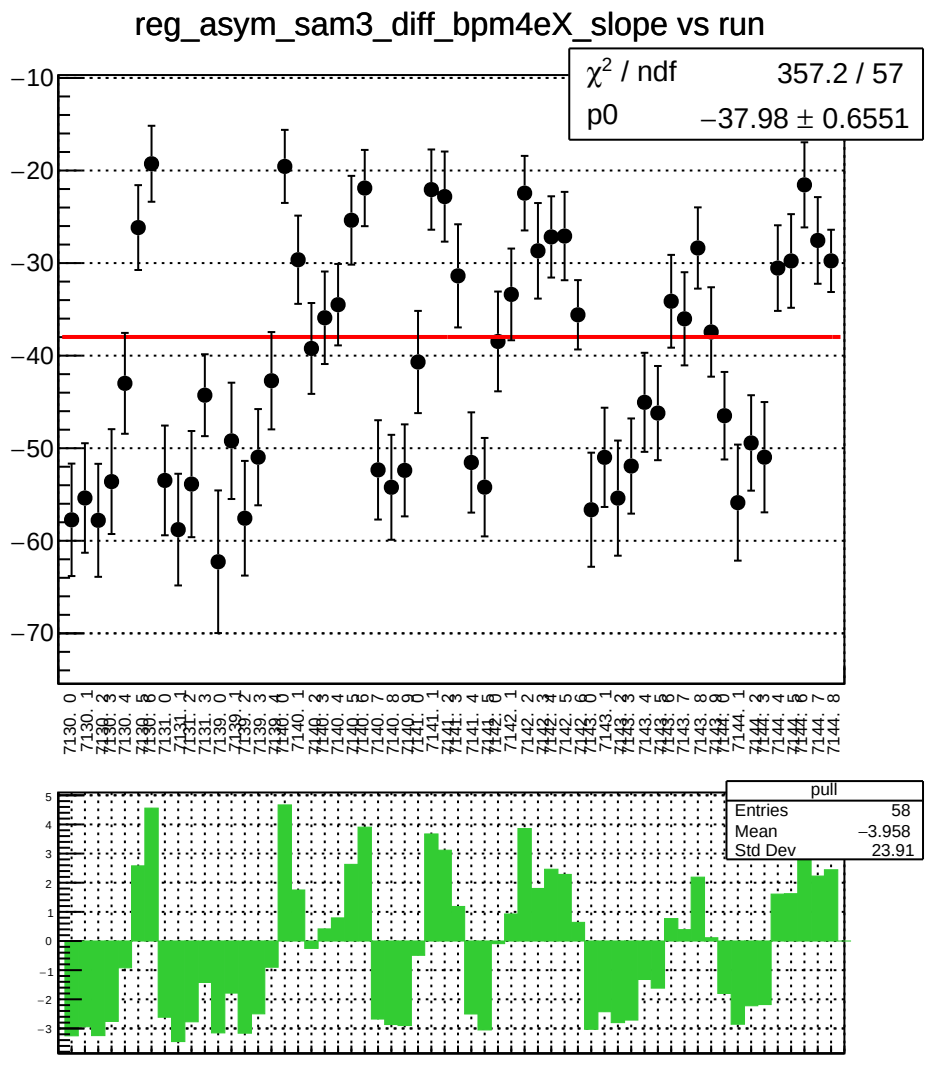

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 7.24 / 57
p0 0.8588 ± 0.0819
pull
Entries 58
Mean 298.9
Std Dev 271.1

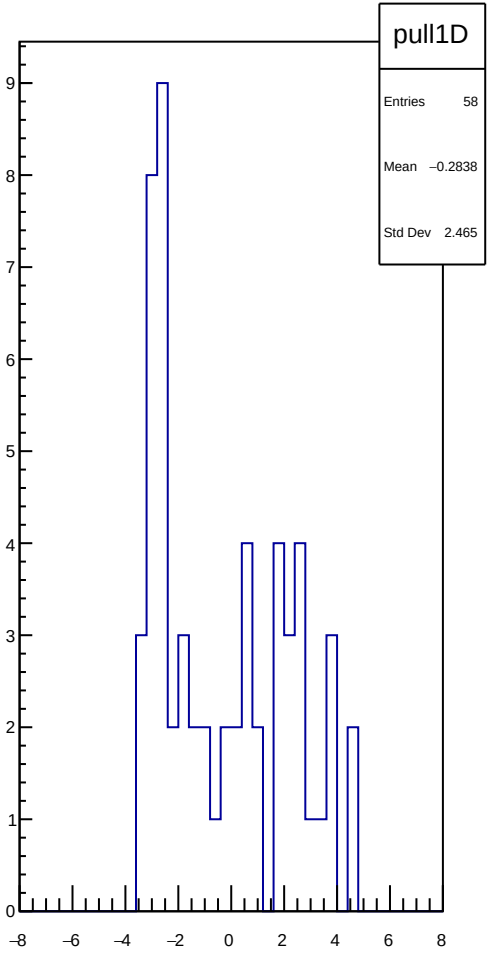

pull1D
Entries 58
Mean −0.01654
Std Dev 0.3529

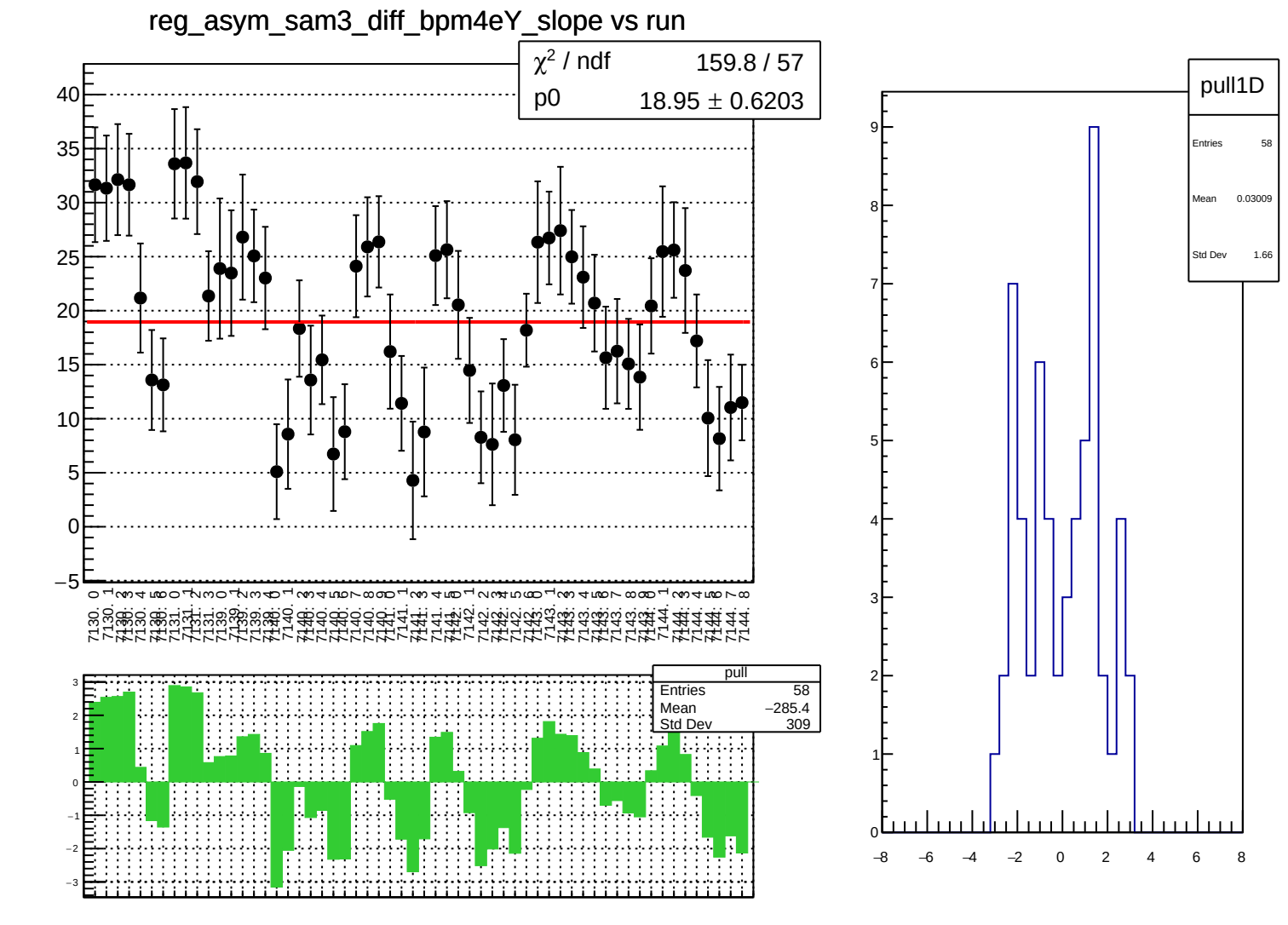

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 507.6 / 57
p0 −38 ± 0.6434
pull
Entries 58
Mean 0.7844
Std Dev 14.98

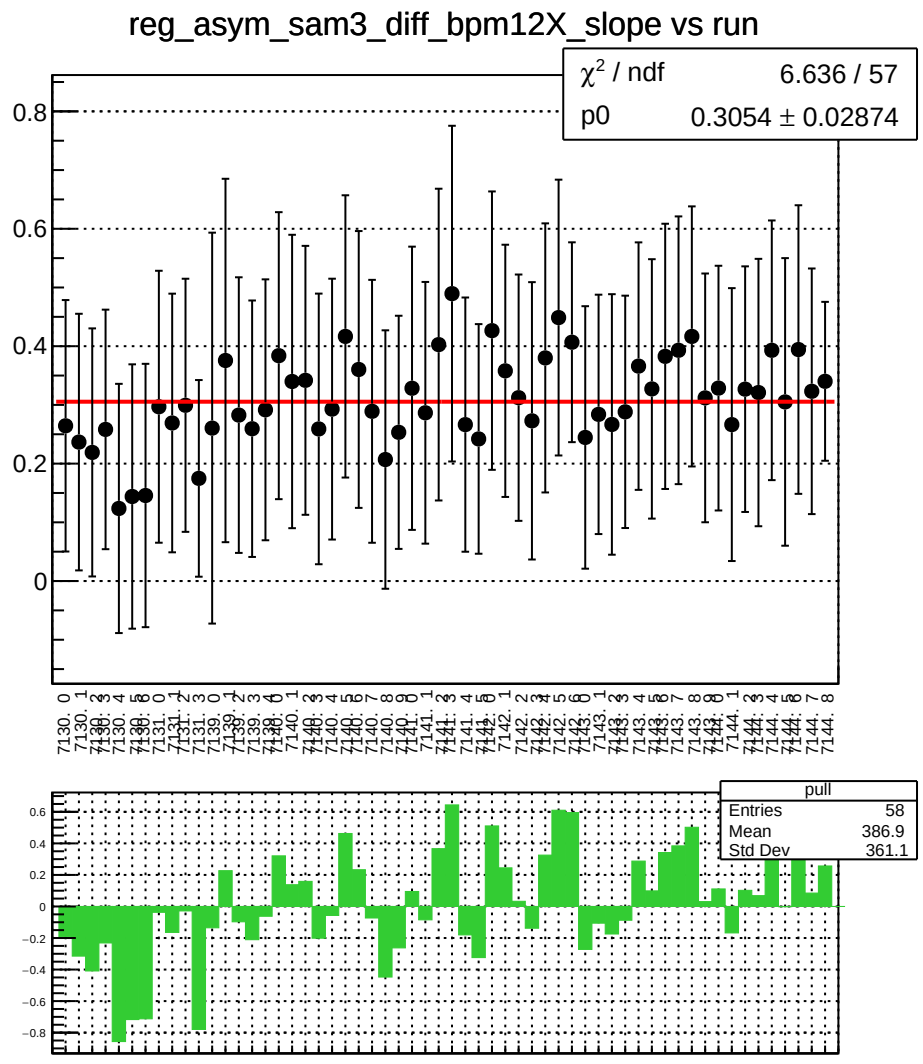

pull1D
Entries 58
Mean 0.2793
Std Dev 2.945

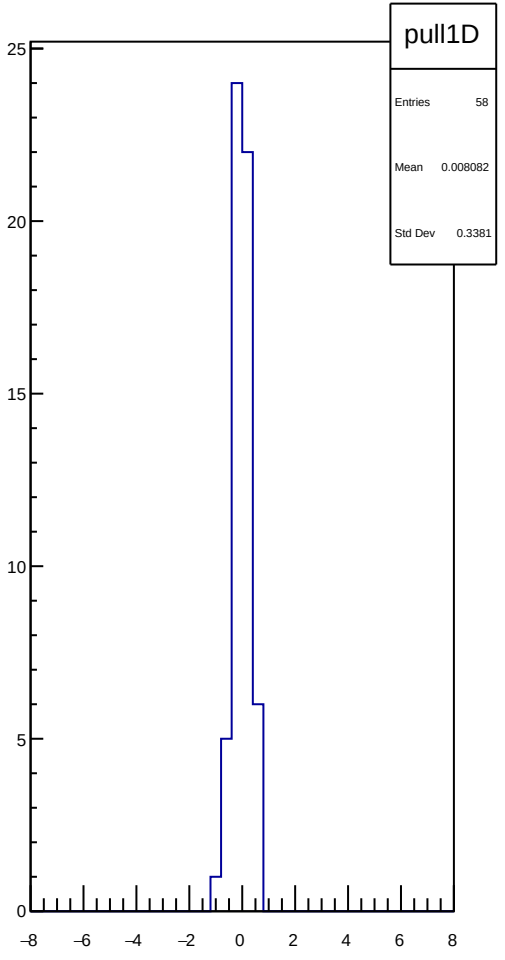

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 160 / 57
p0 2.746 ± 0.579
pull
Entries 58
Mean −634.1
Std Dev 658.3
pull1D
Entries 58
Mean −0.0114
Std Dev 1.661

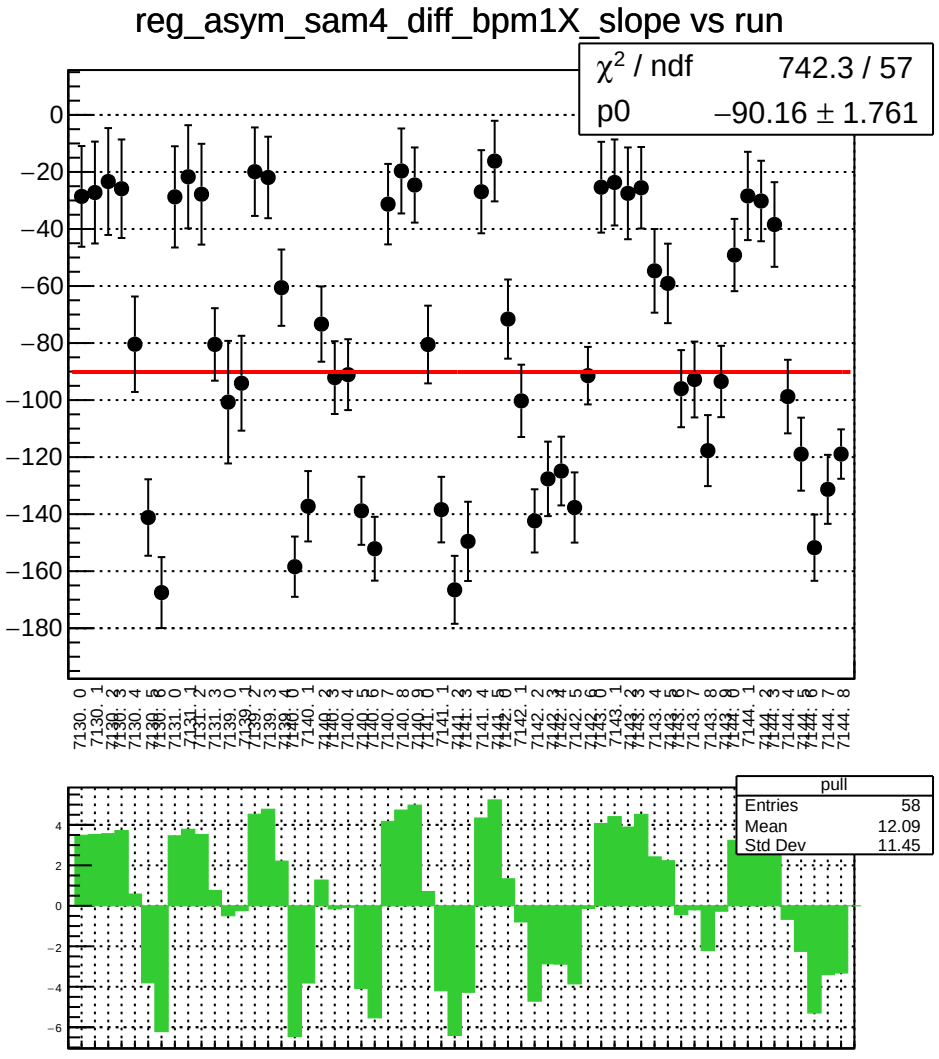

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 357.2 / 57
p0 −37.98 ± 0.6551
pull
Entries 58
Mean −3.958
Std Dev 23.91

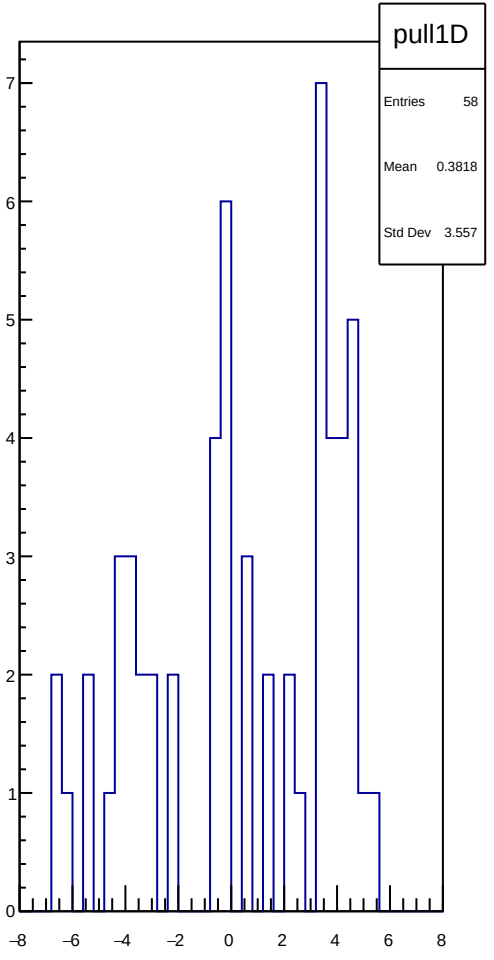

pull1D
Entries 58
Mean −0.2838
Std Dev 2.465

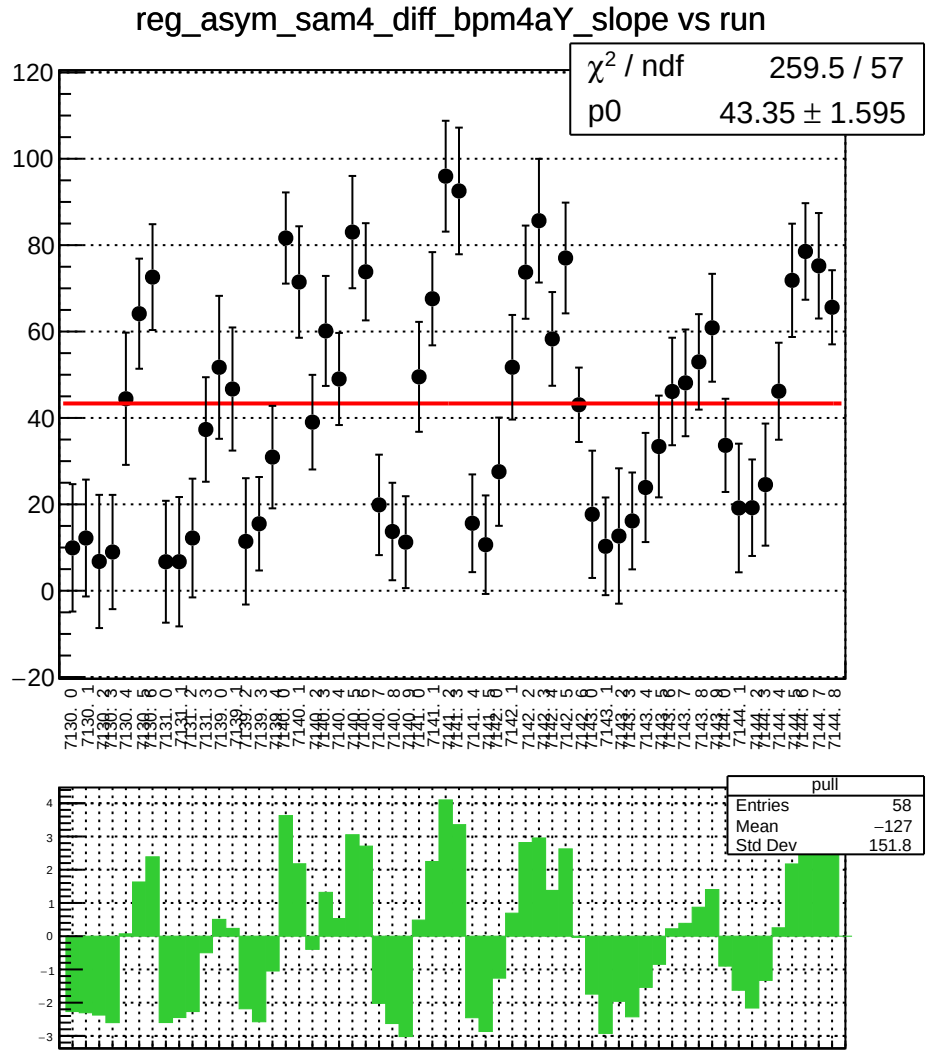

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 159.8 / 57
p0 18.95 ± 0.6203
pull
Entries 58
Mean −285.4
Std Dev 309
pull1D
Entries 58
Mean 0.03009
Std Dev 1.66

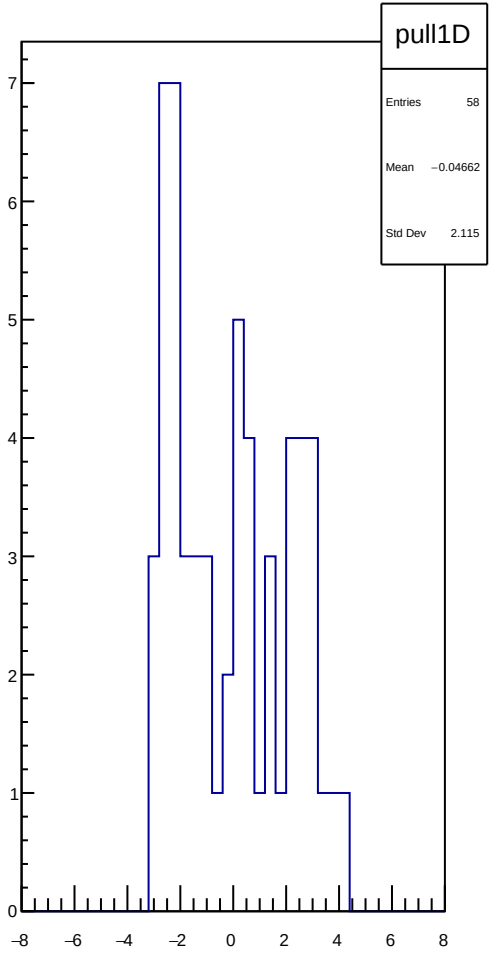

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 6.636 / 57
p0 0.3054 ± 0.02874
pull
Entries 58
Mean 386.9
Std Dev 361.1

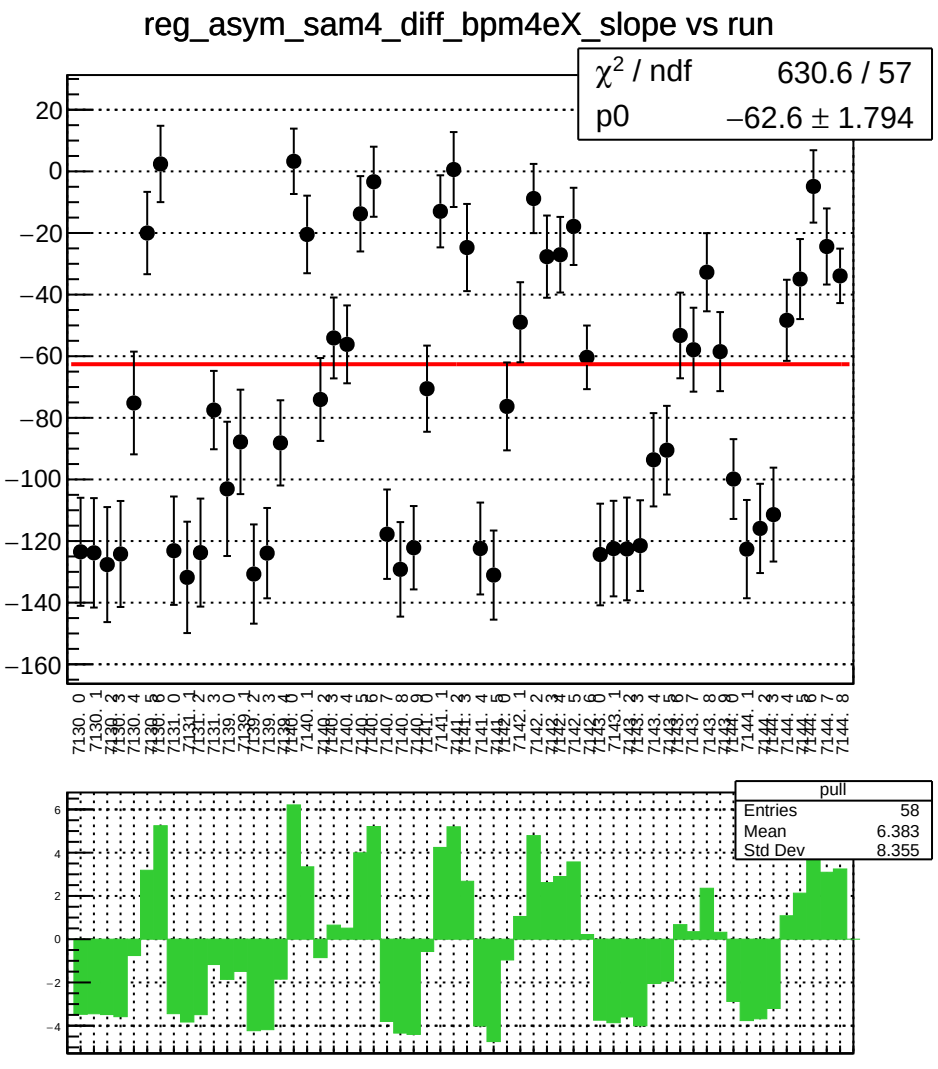

pull1D
Entries 58
Mean 0.008082
Std Dev 0.3381

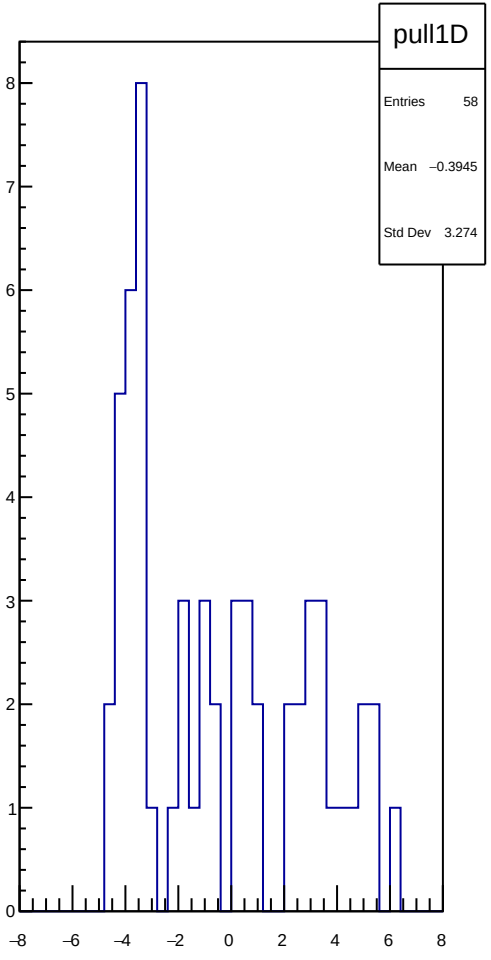

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 742.3 / 57
p0 −90.16 ± 1.761
pull
Entries 58
Mean 12.09
Std Dev 11.45

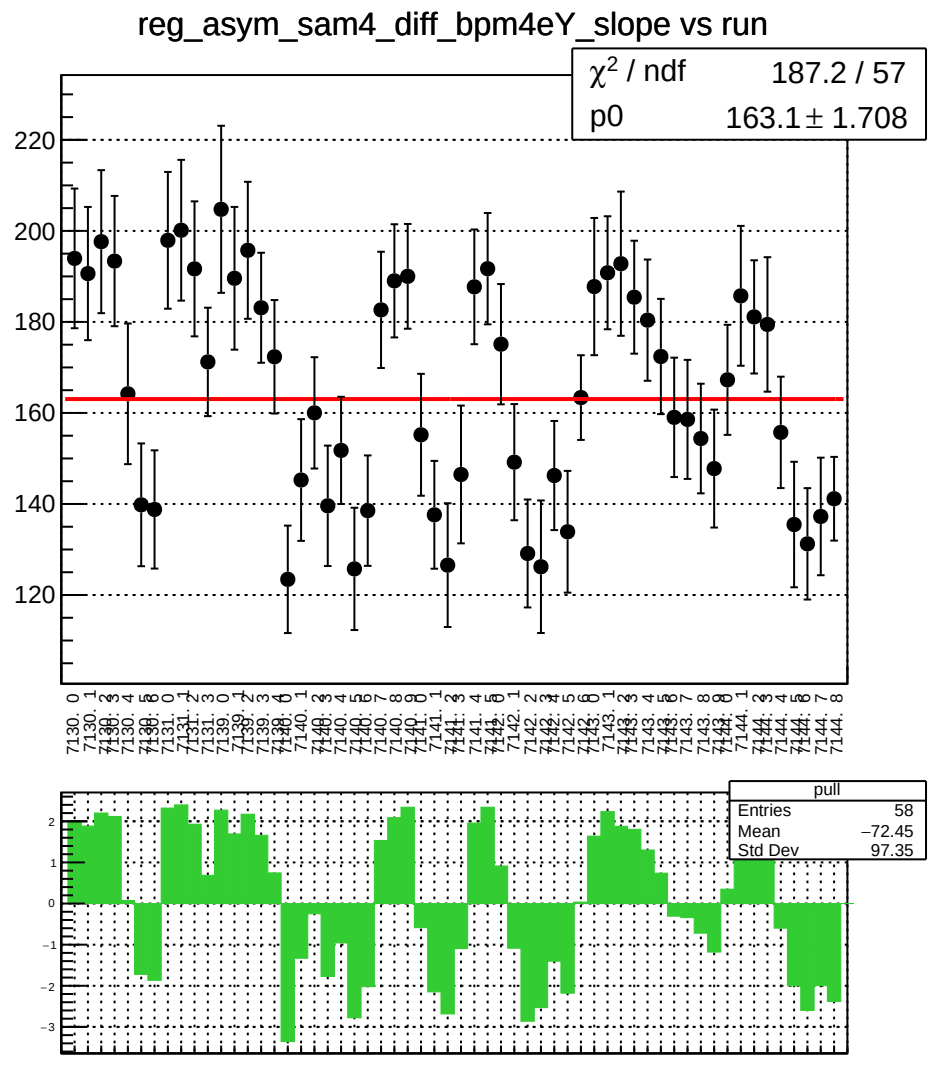

pull1D
Entries 58
Mean 0.3818
Std Dev 3.557

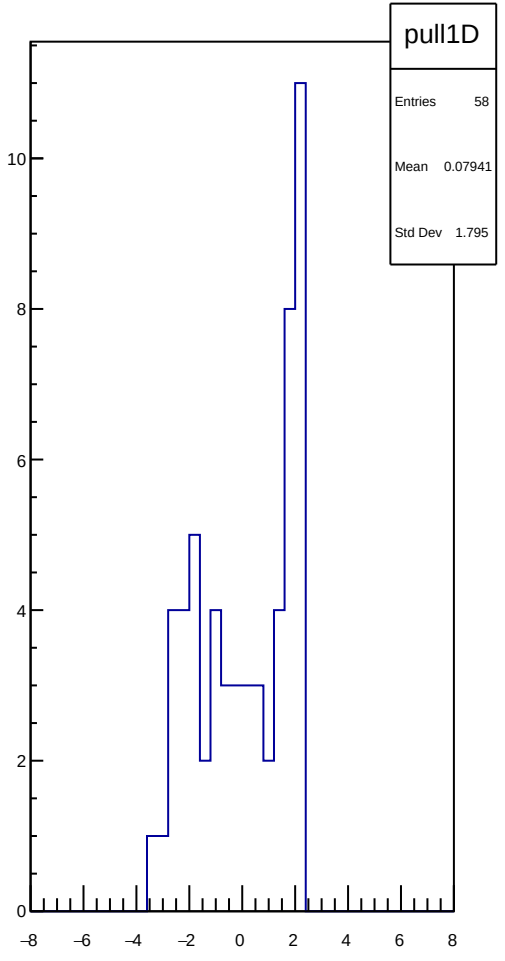

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 259.5 / 57
p0 43.35 ± 1.595
pull
Entries 58
Mean −127
Std Dev 151.8

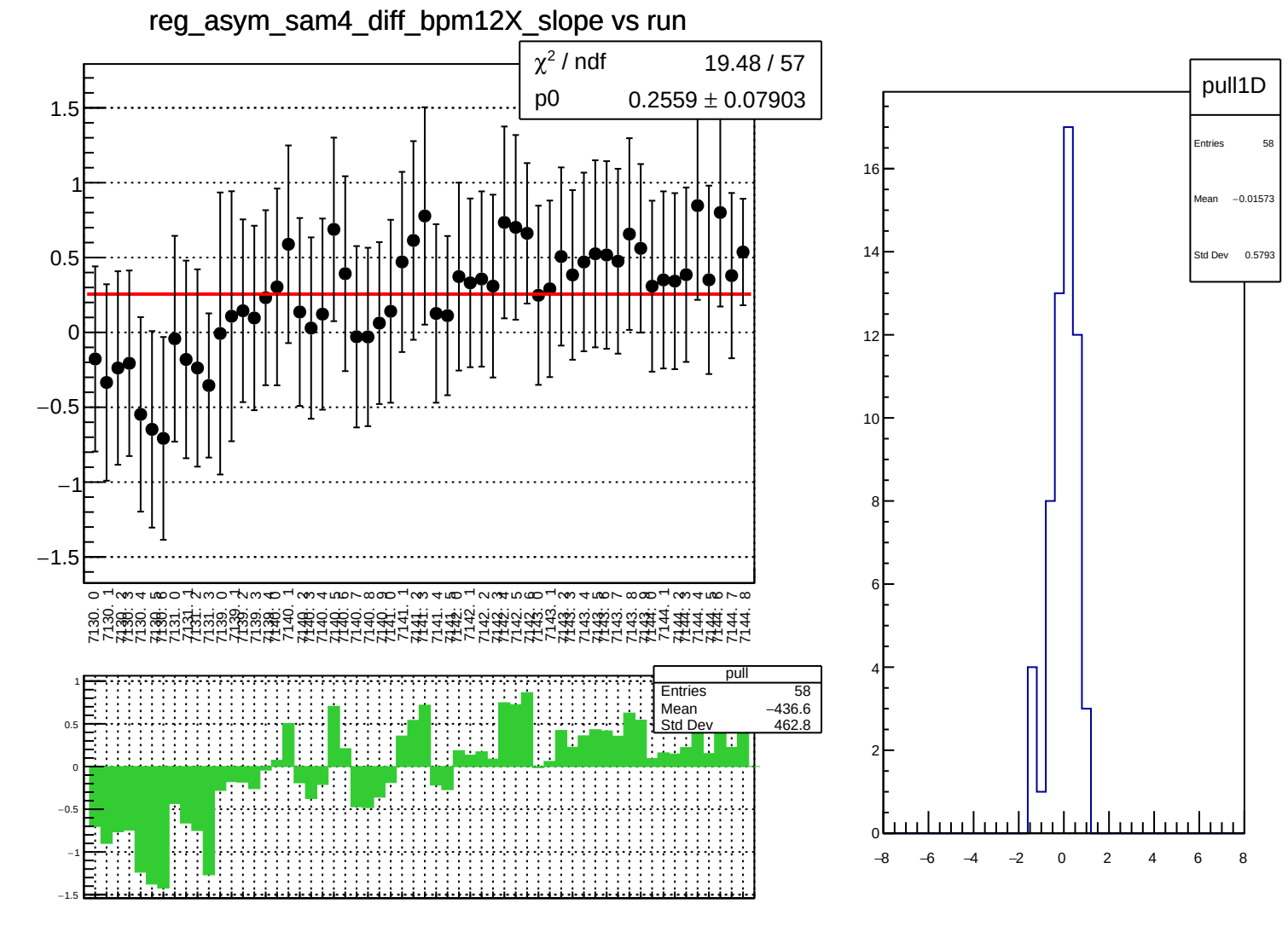

pull1D
Entries 58
Mean −0.04662
Std Dev 2.115

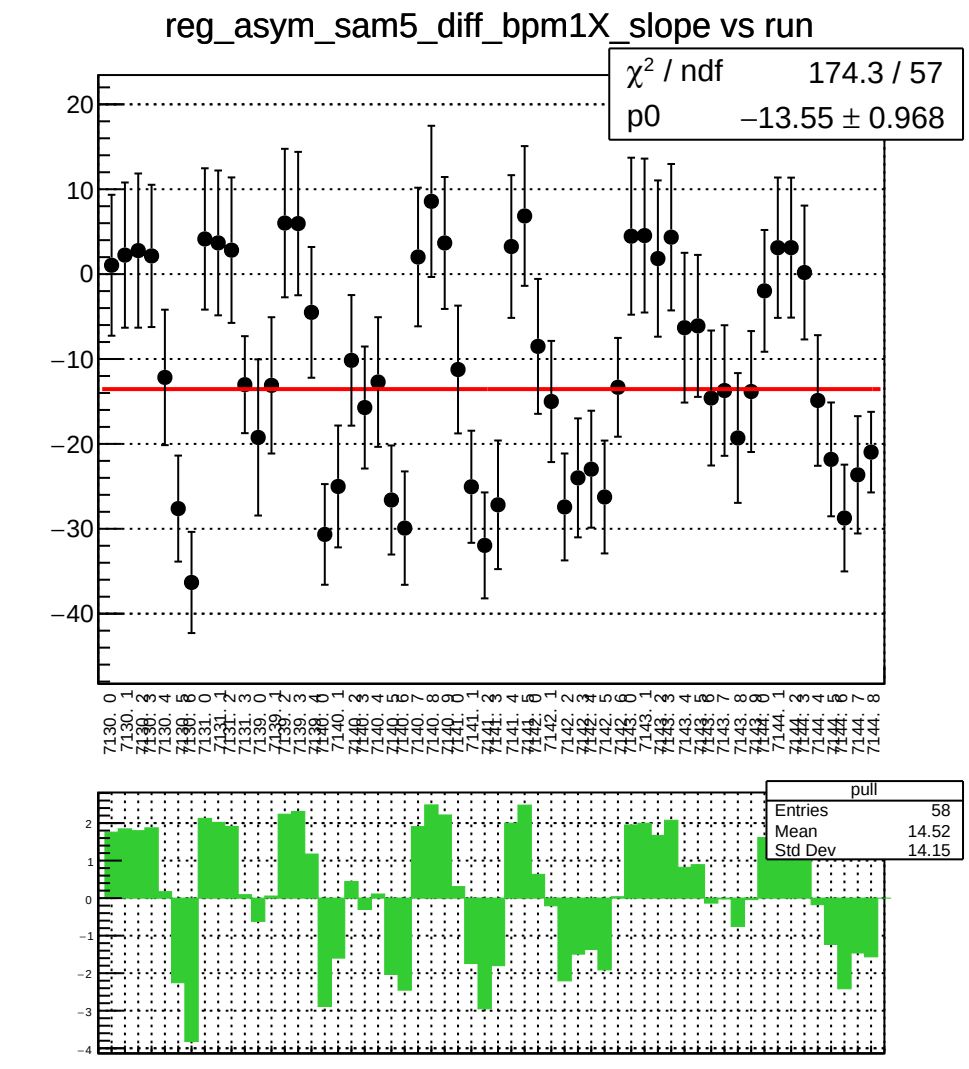

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 630.6 / 57
p0 −62.6 ± 1.794
pull
Entries 58
Mean 6.383
Std Dev 8.355

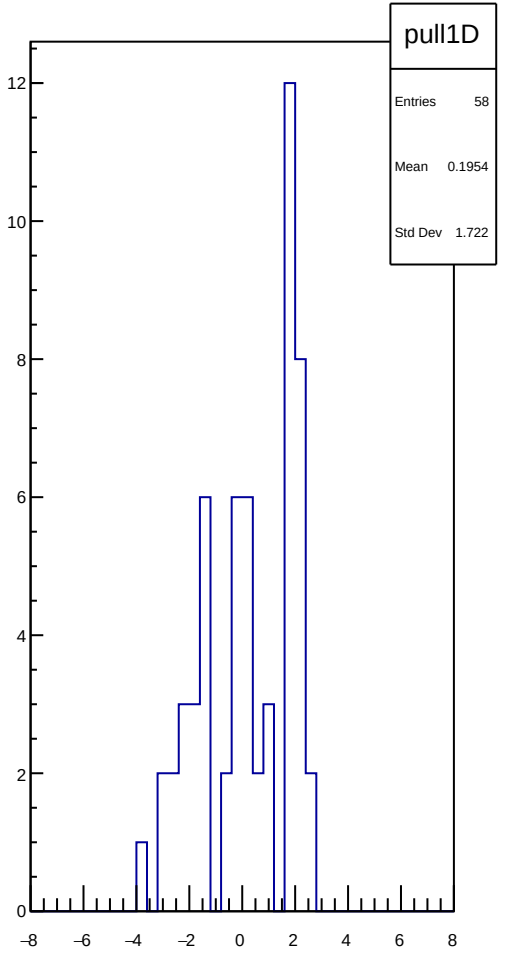

pull1D
Entries 58
Mean −0.3945
Std Dev 3.274

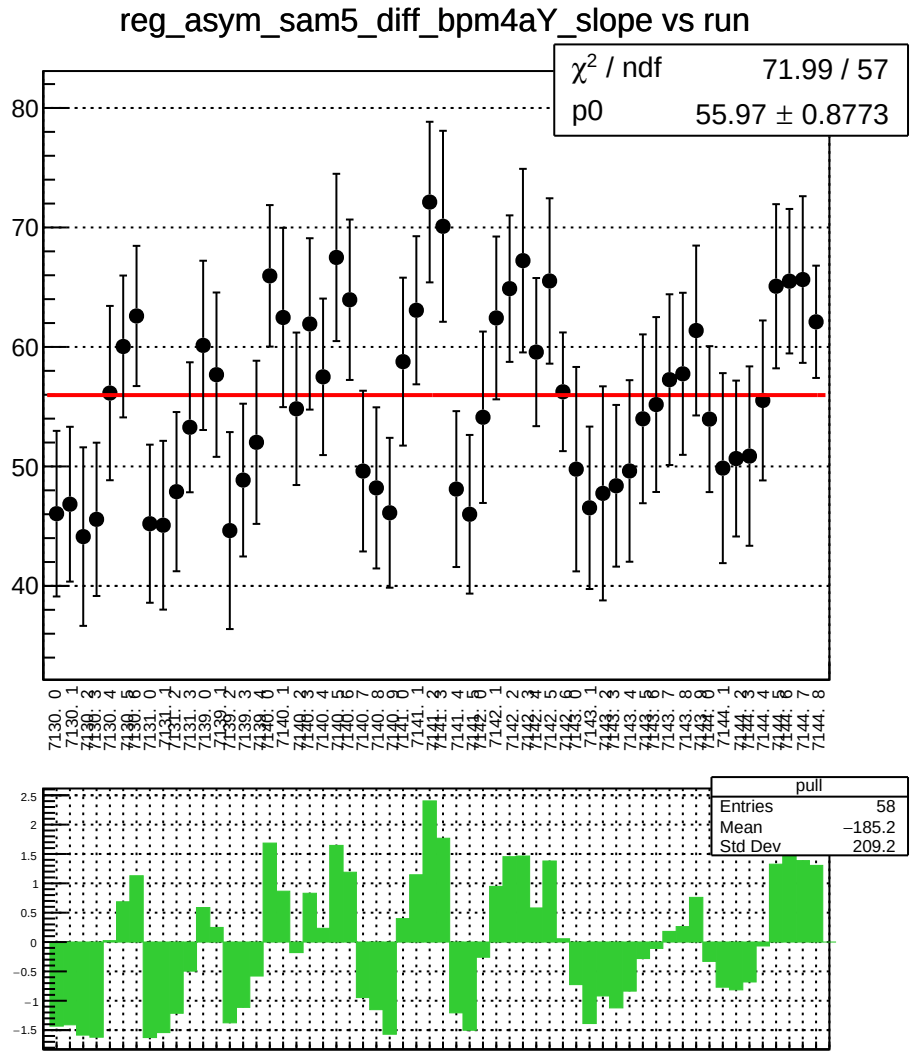

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 187.2 / 57
p0 163.1 ± 1.708
220
200
180
160
140
120
pull
Entries 58
Mean −72.45
Std Dev 97.35
2
1
0
−1
−2
−3

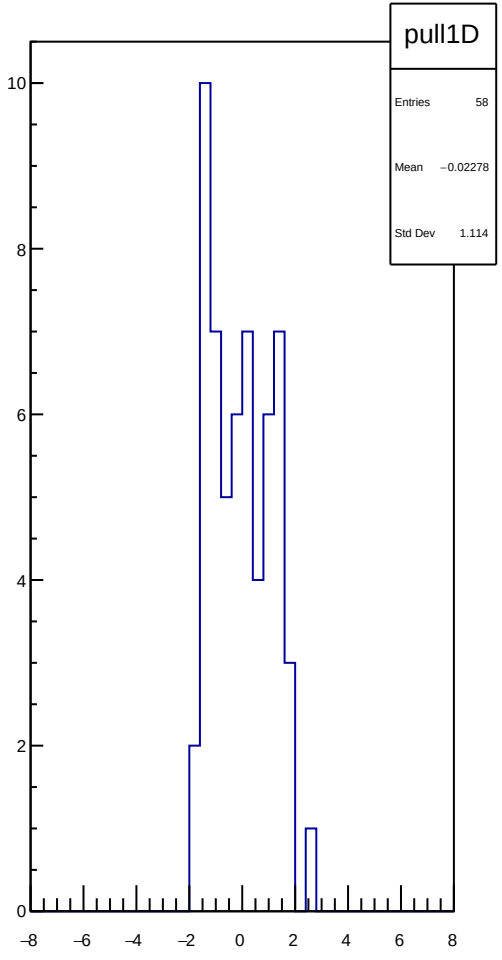

pull1D
Entries 58
Mean 0.07941
Std Dev 1.795
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

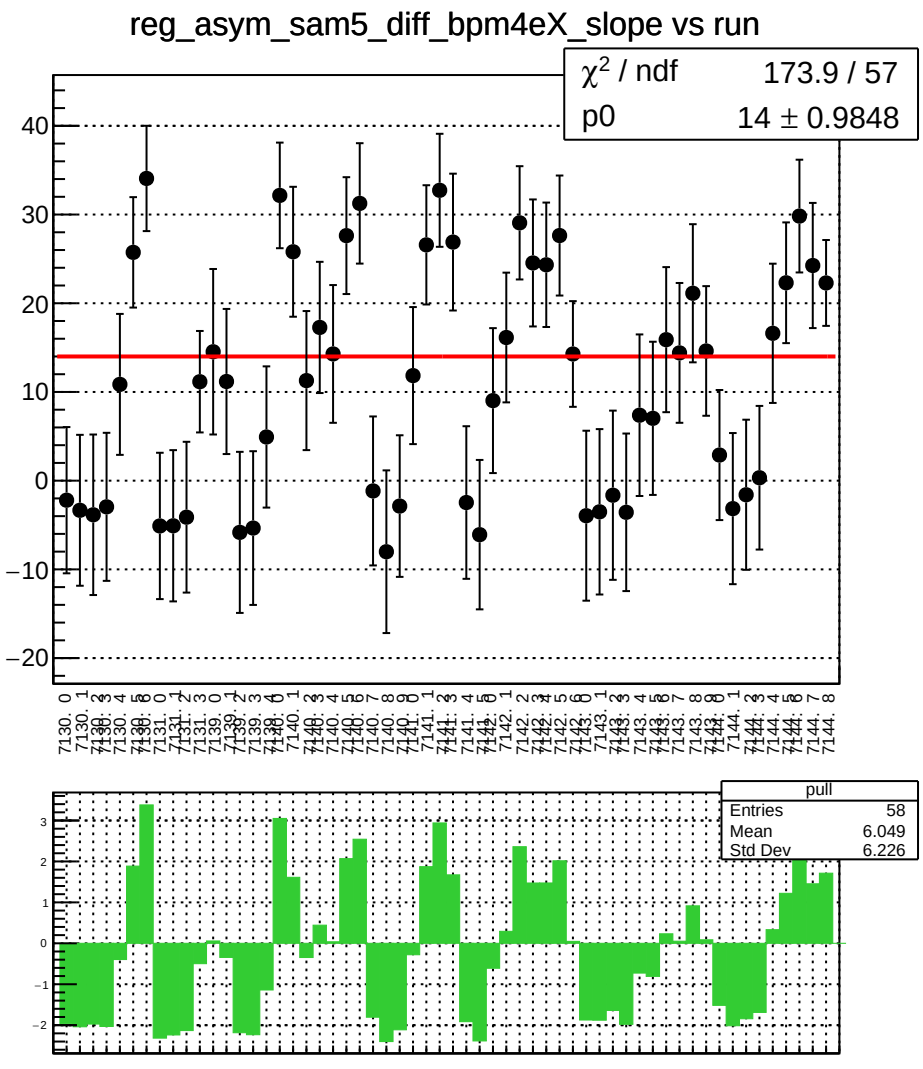

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 19.48 / 57
p0 0.2559 ± 0.07903
pull
Entries 58
Mean −436.6
Std Dev 462.8
pull1D
Entries 58
Mean −0.01573
Std Dev 0.5793

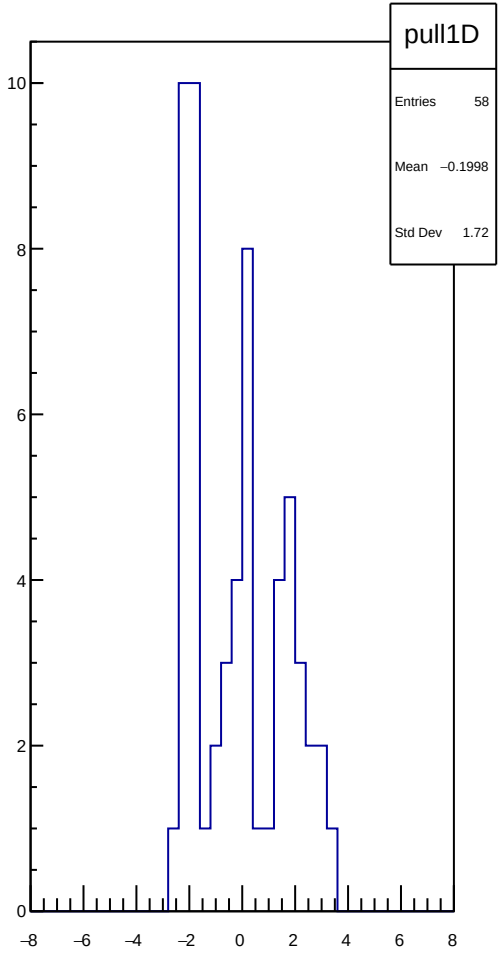

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 174.3 / 57
p0 −13.55 ± 0.968
pull
Entries 58
Mean 14.52
Std Dev 14.15

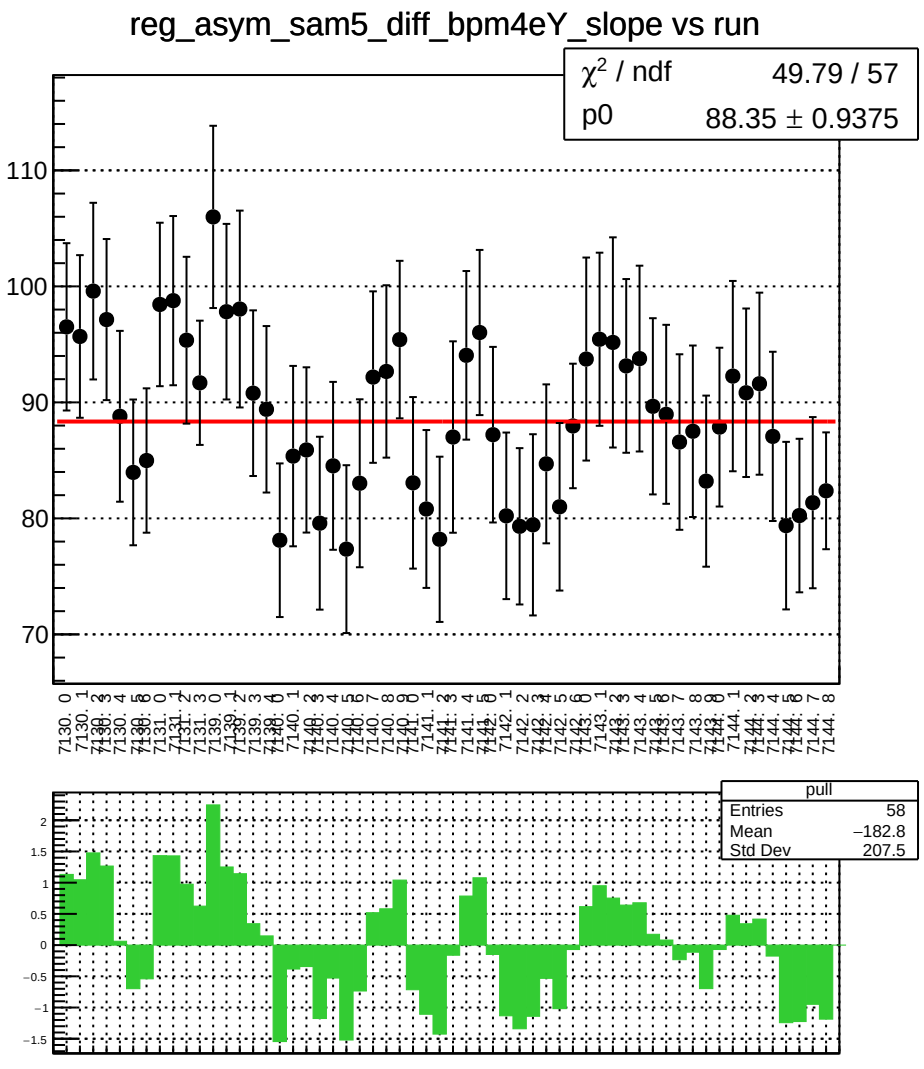

pull1D
Entries 58
Mean 0.1954
Std Dev 1.722

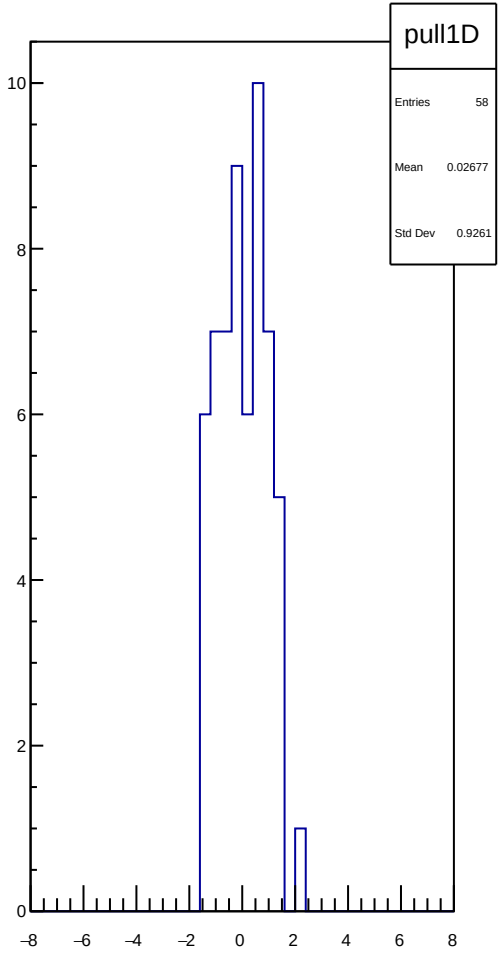

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 71.99 / 57
p0 55.97 ± 0.8773
pull
Entries 58
Mean −185.2
Std Dev 209.2

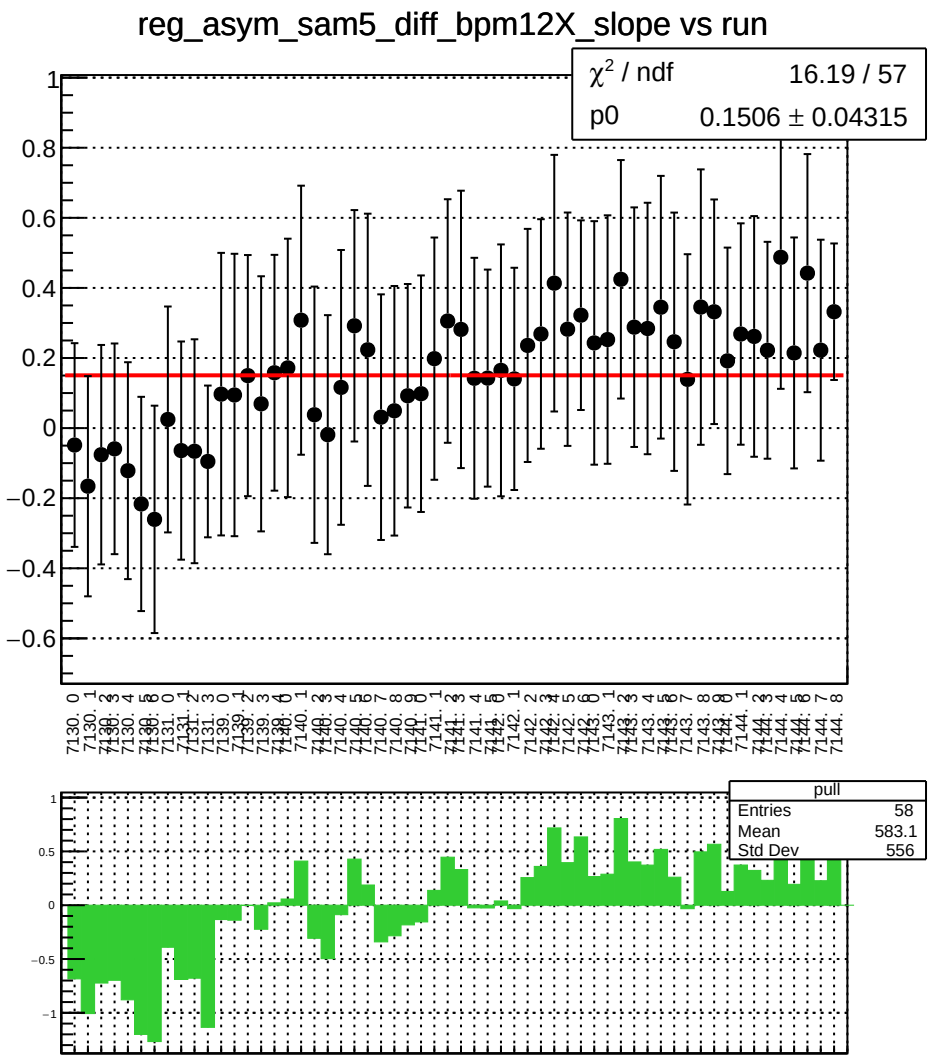

pull1D
Entries 58
Mean −0.02278
Std Dev 1.114

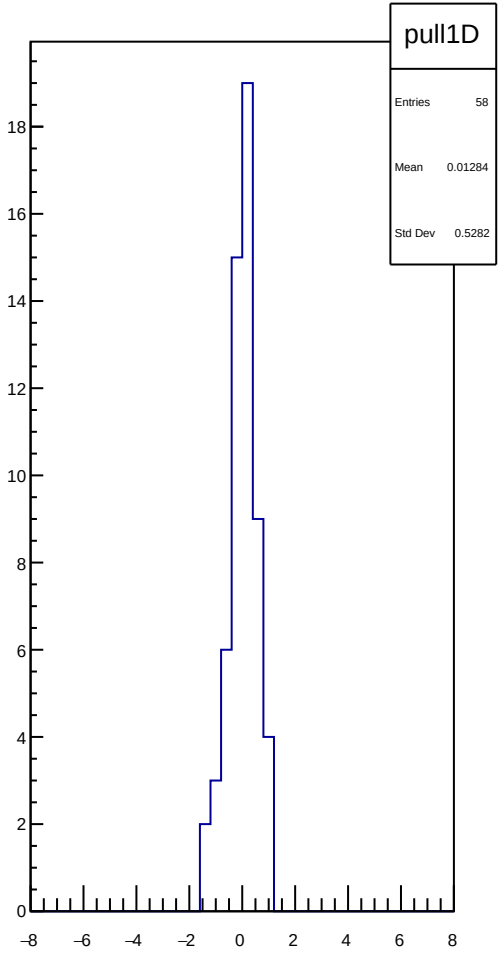

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 173.9 / 57
p0 14 ± 0.9848
pull
Entries 58
Mean 6.049
Std Dev 6.226

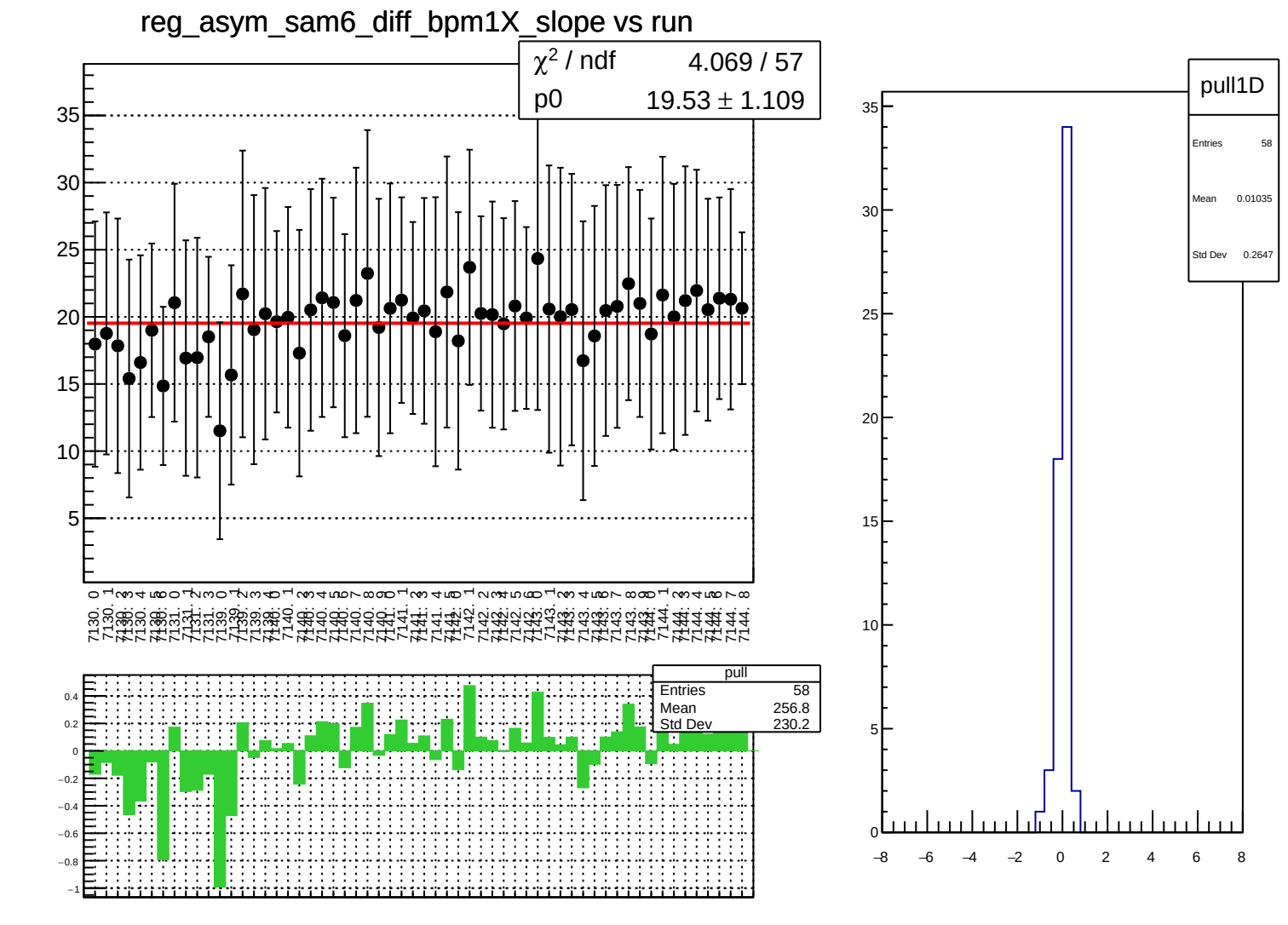

pull1D
Entries 58
Mean −0.1998
Std Dev 1.72

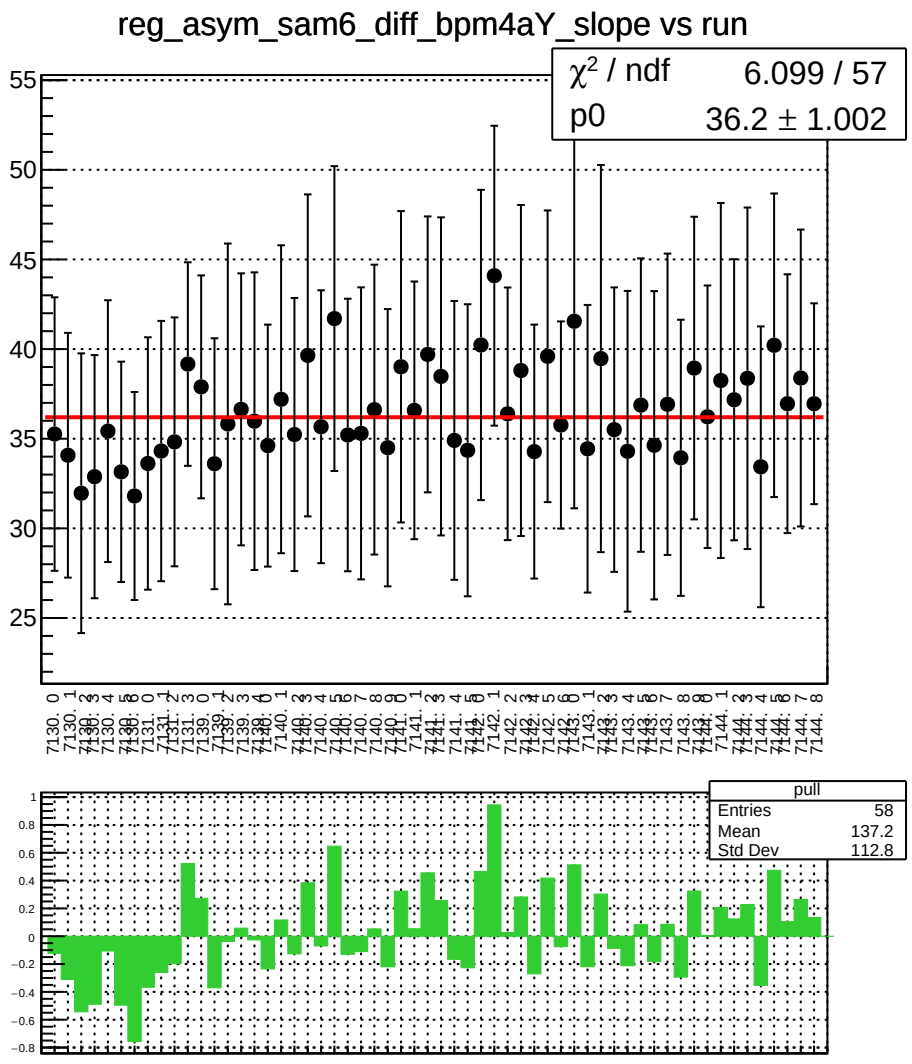

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 49.79 / 57
p0 88.35 ± 0.9375
110
100
90
80
70
pull
Entries 58
Mean −182.8
Std Dev 207.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

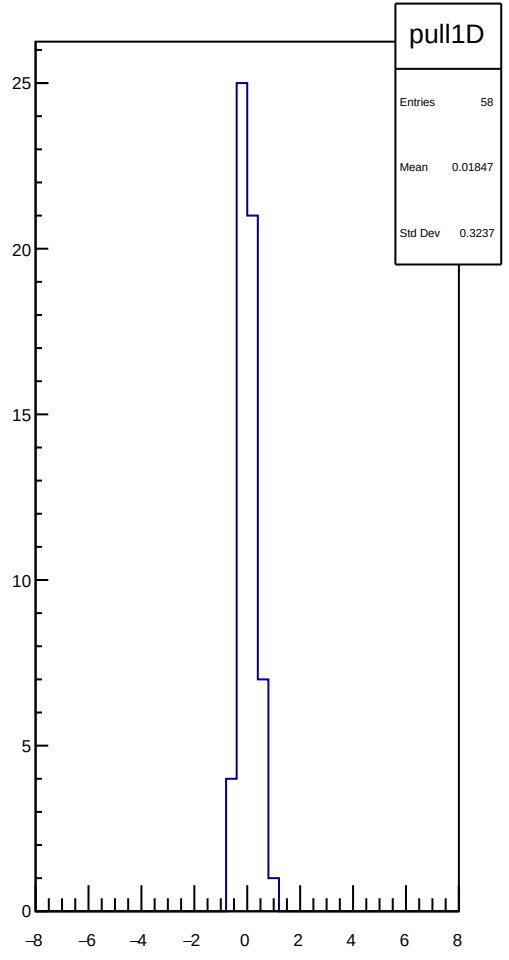

pull1D
Entries 58
Mean 0.02677
Std Dev 0.9261
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

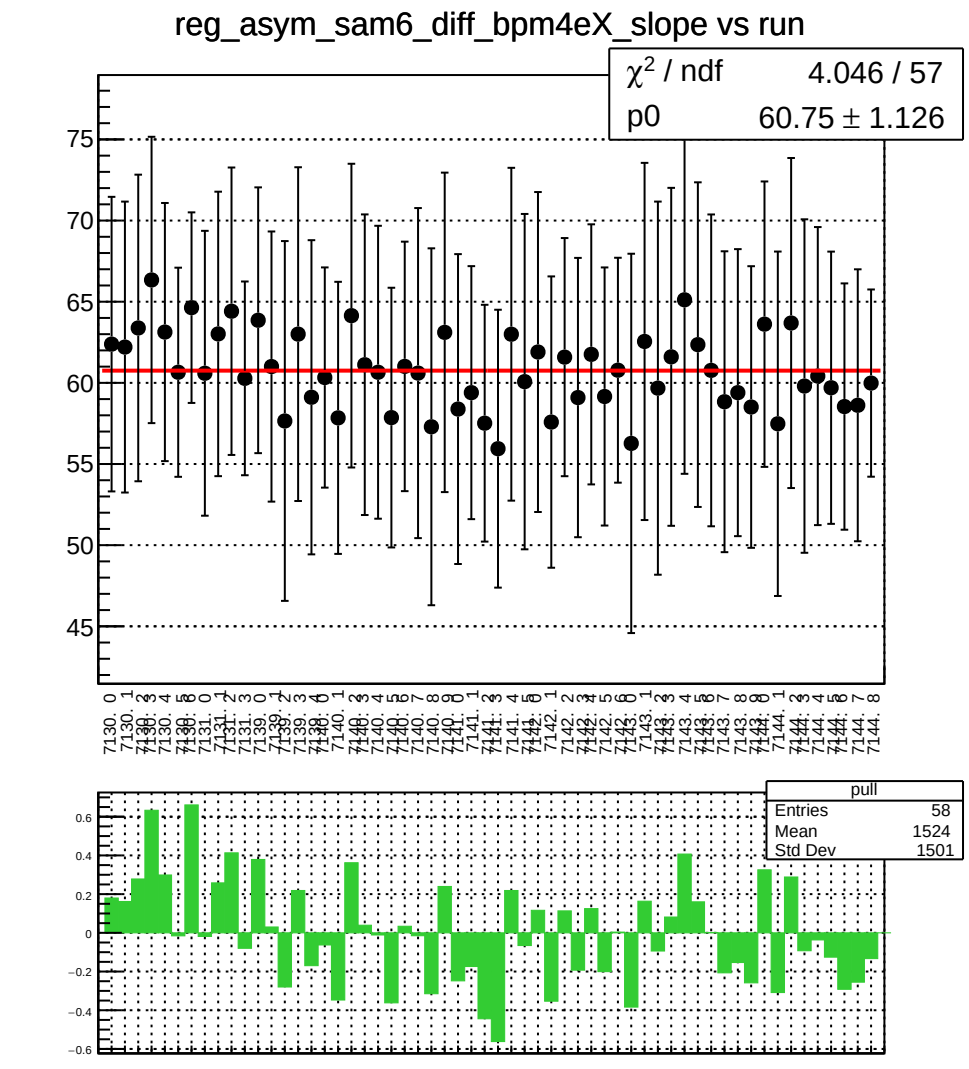

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 16.19 / 57
p0 0.1506 ± 0.04315
pull
Entries 58
Mean 583.1
Std Dev 556

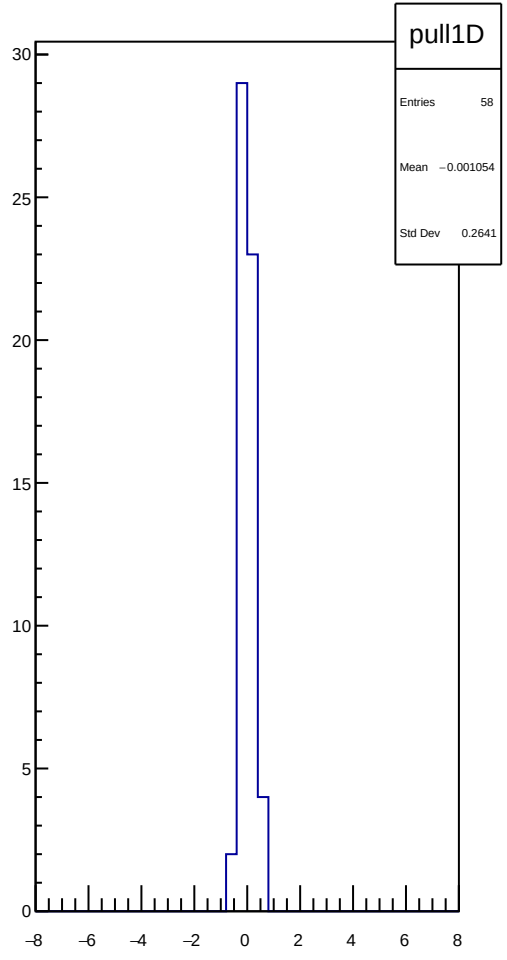

pull1D
Entries 58
Mean 0.01284
Std Dev 0.5282

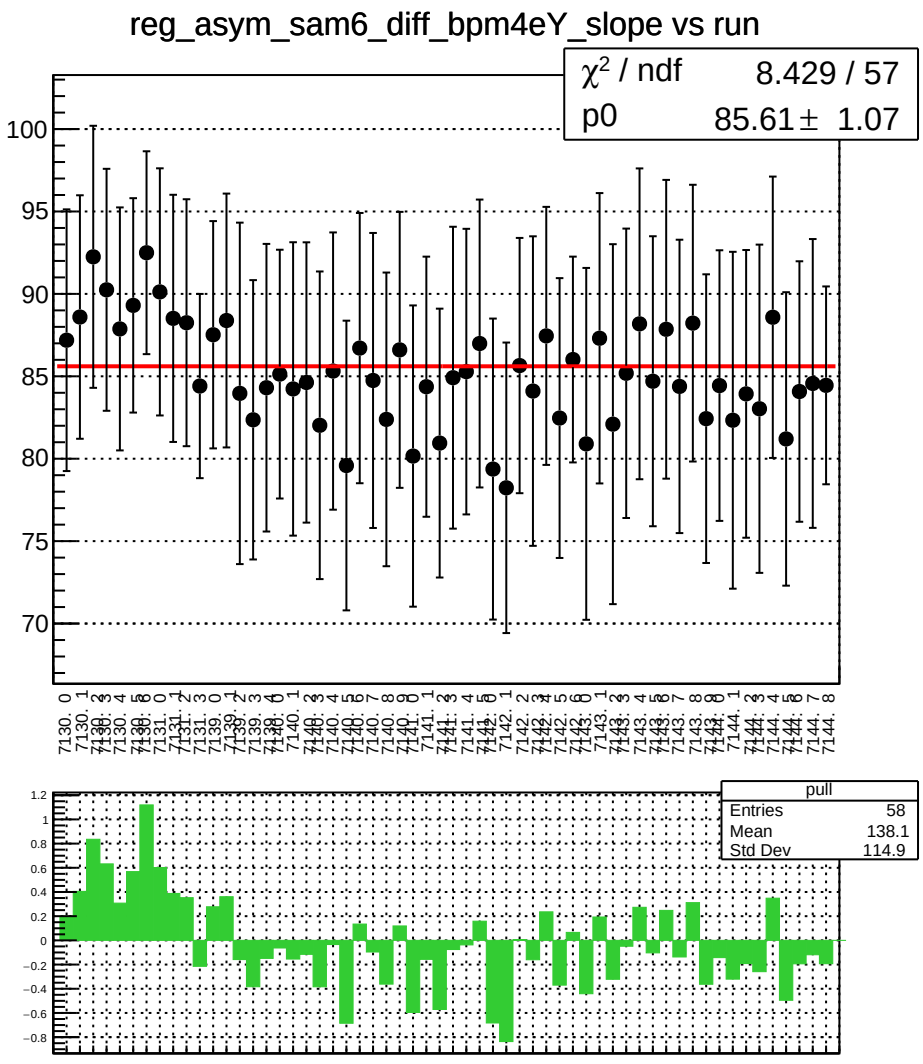

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 4.069 / 57
p0 19.53 ± 1.109
pull
Entries 58
Mean 256.8
Std Dev 230.2
pull1D
Entries 58
Mean 0.01035
Std Dev 0.2647

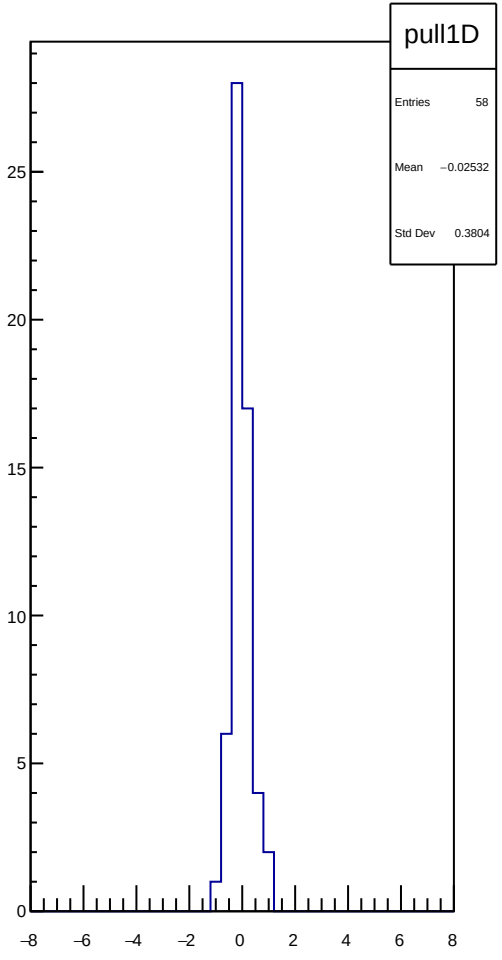

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 6.099 / 57
p0 36.2 ± 1.002
pull
Entries 58
Mean 137.2
Std Dev 112.8

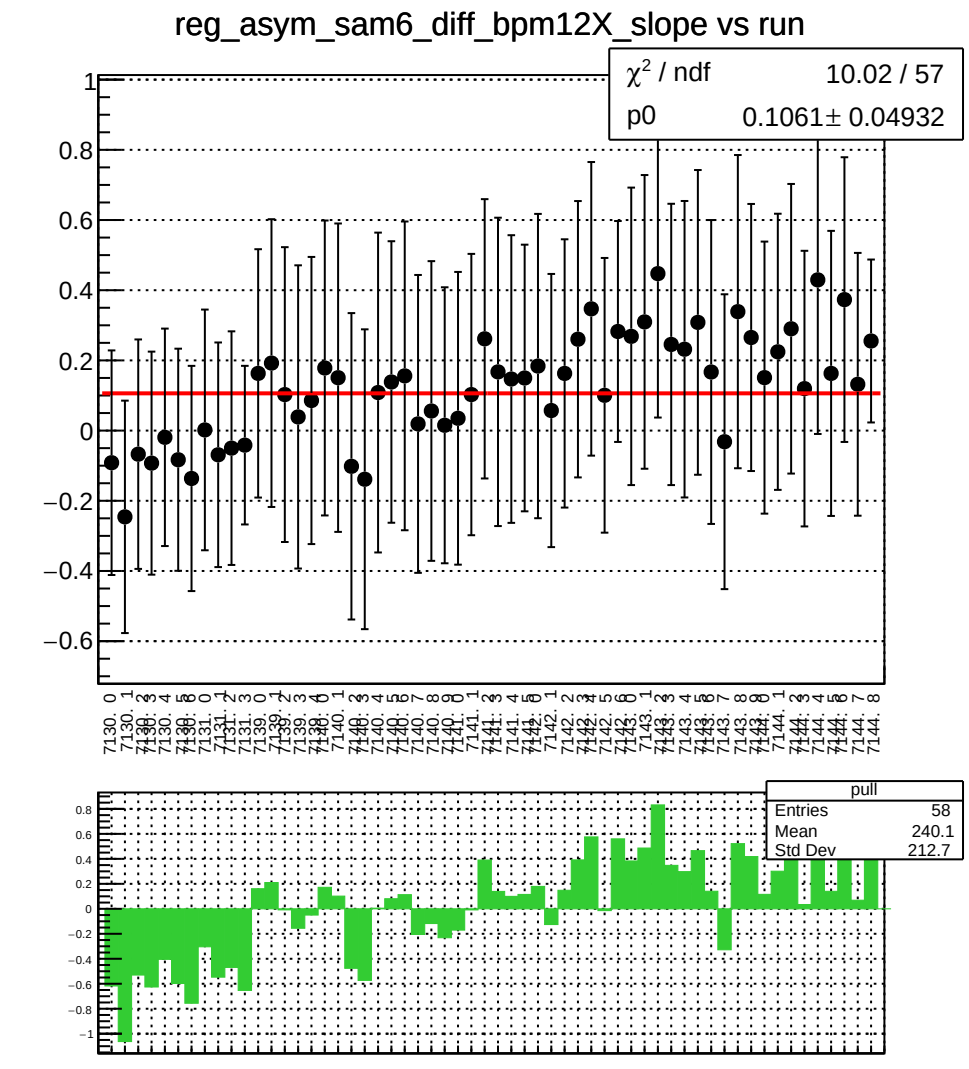

pull1D
Entries 58
Mean 0.01847
Std Dev 0.3237

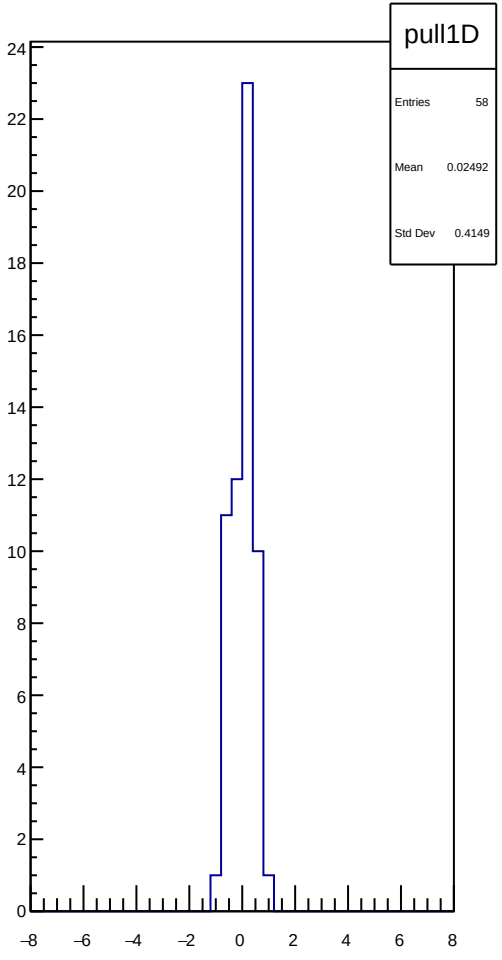

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 4.046 / 57
p0 60.75 ± 1.126
pull
Entries 58
Mean 1524
Std Dev 1501

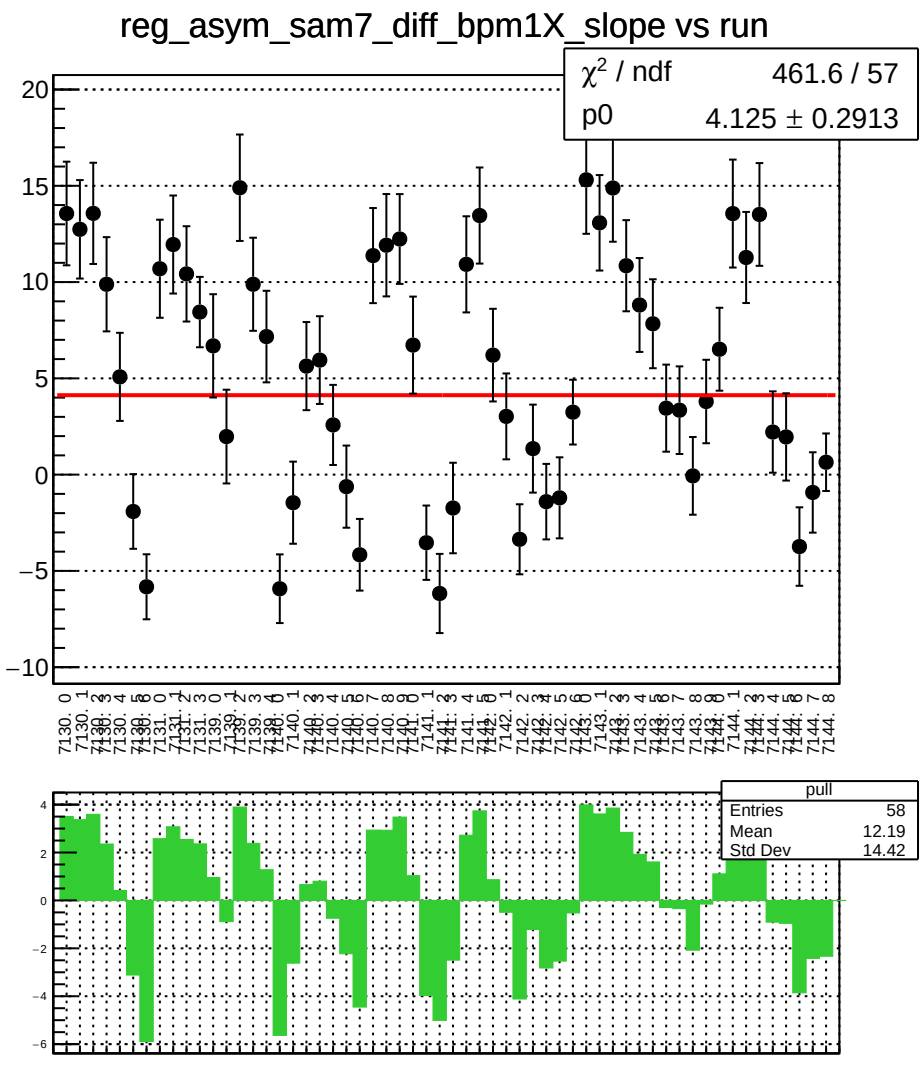

pull1D
Entries 58
Mean −0.001054
Std Dev 0.2641

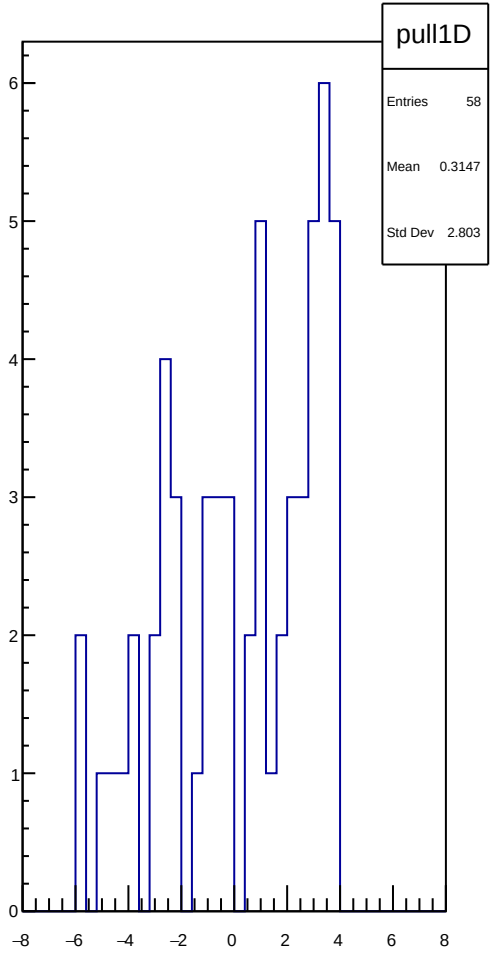

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 8.429 / 57
p0 85.61 ± 1.07
pull
Entries 58
Mean 138.1
Std Dev 114.9

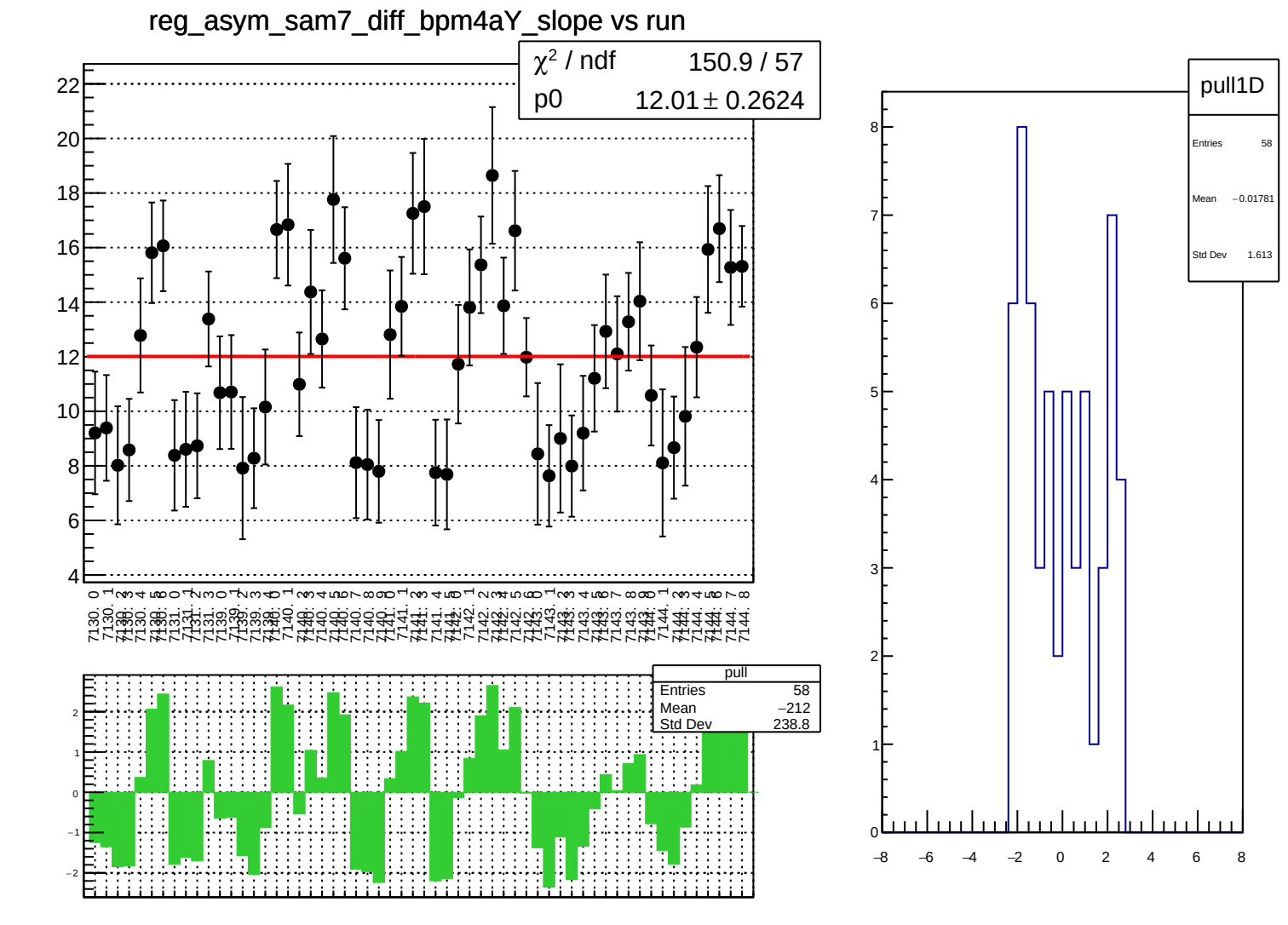

pull1D
Entries 58
Mean −0.02532
Std Dev 0.3804

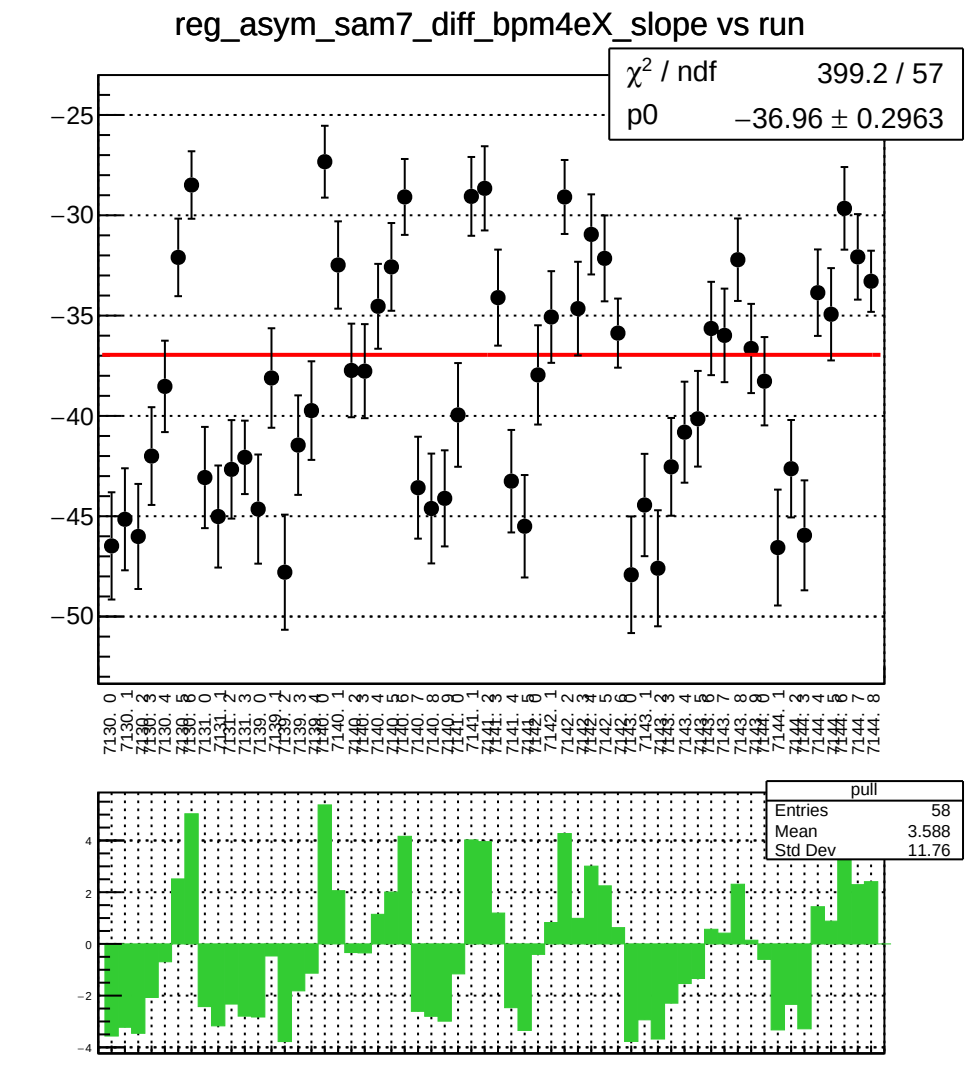

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 10.02 / 57
p0 0.1061± 0.04932
pull
Entries 58
Mean 240.1
Std Dev 212.7

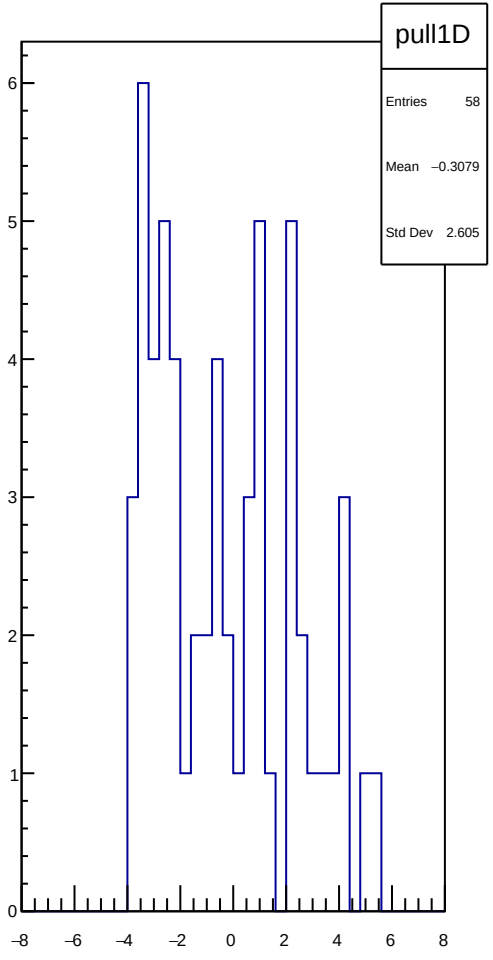

pull1D
Entries 58
Mean 0.02492
Std Dev 0.4149

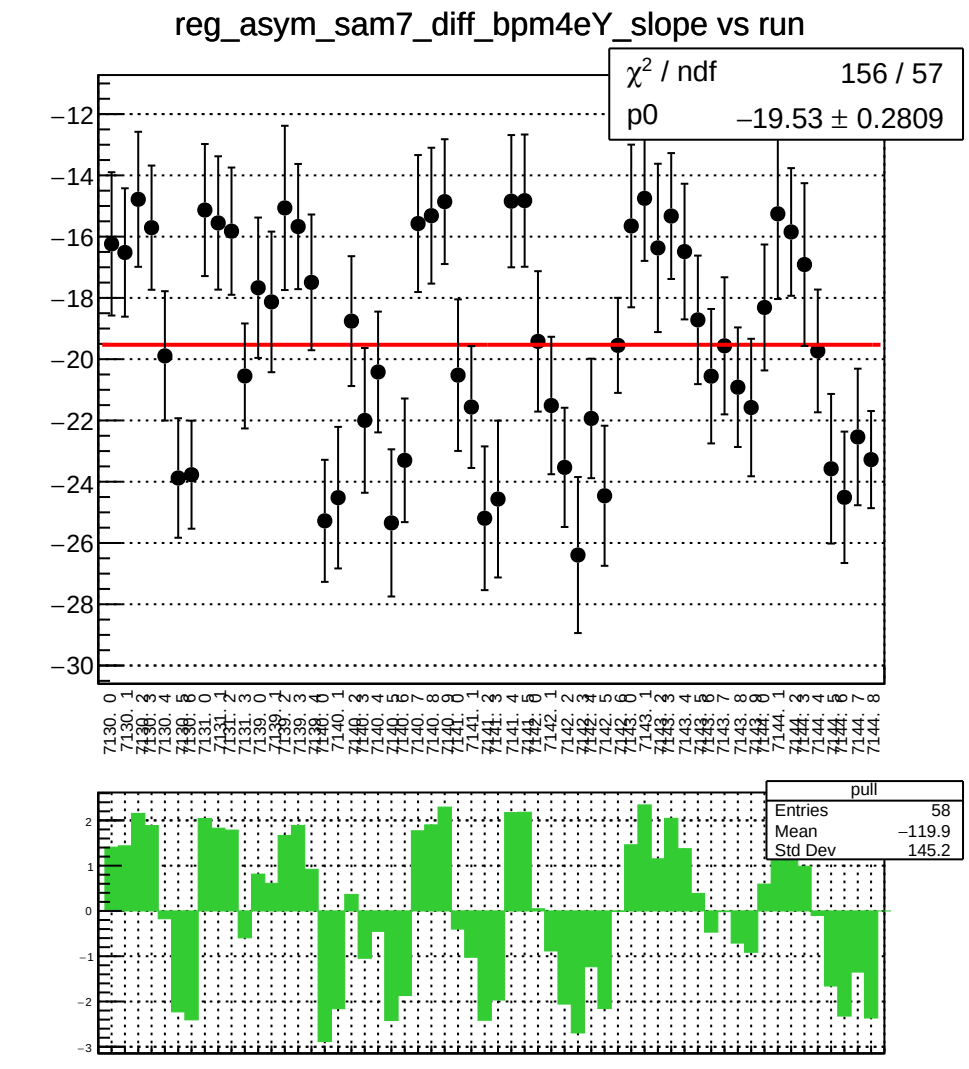

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 461.6 / 57
p0 4.125 ± 0.2913
pull
Entries 58
Mean 12.19
Std Dev 14.42

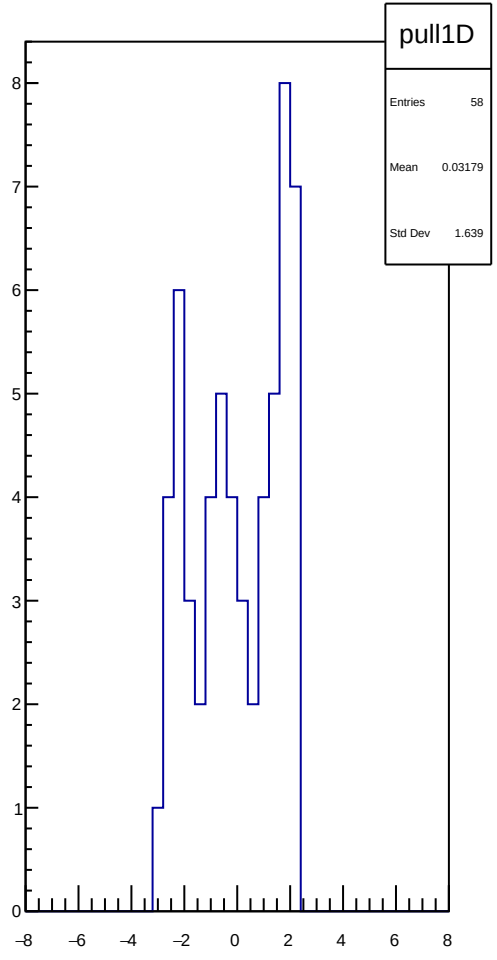

pull1D
Entries 58
Mean 0.3147
Std Dev 2.803

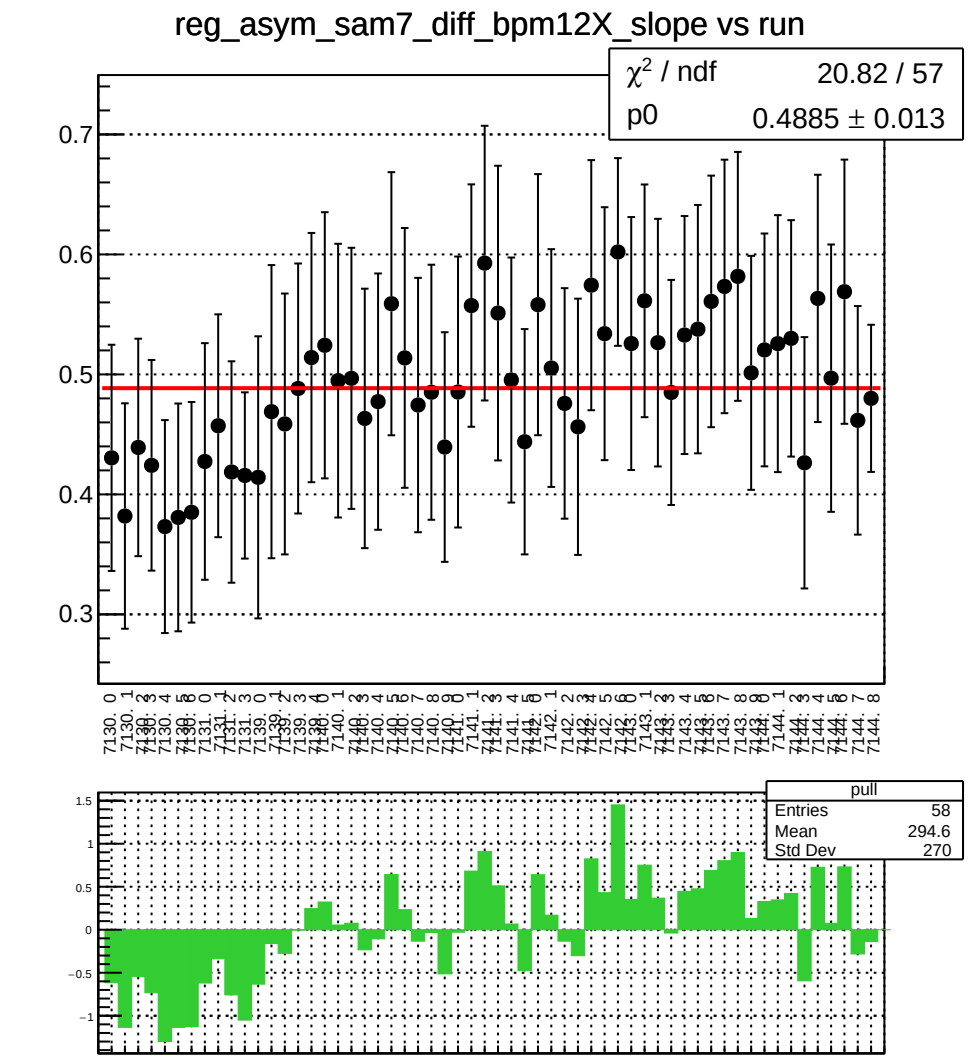

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 150.9 / 57
p0 12.01 ± 0.2624
pull
Entries 58
Mean −212
Std Dev 238.8
pull1D
Entries 58
Mean −0.01781
Std Dev 1.613

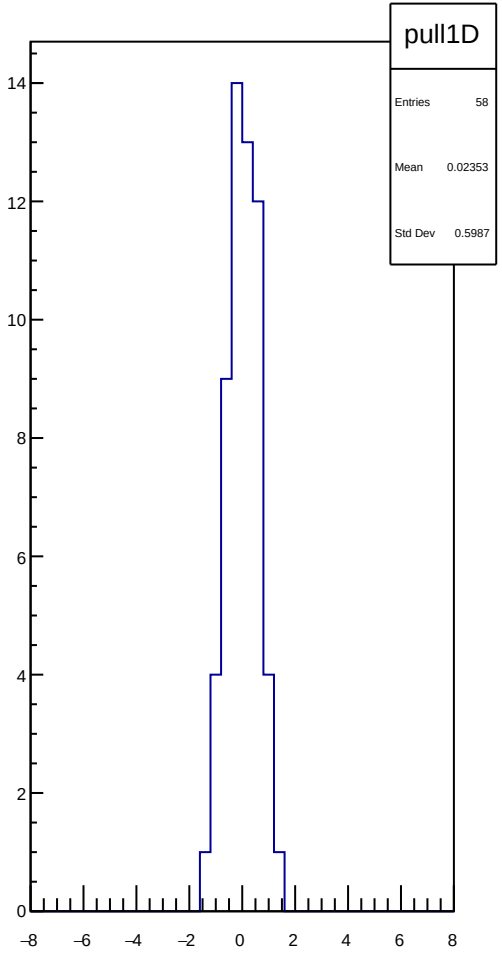

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 399.2 / 57
p0 −36.96 ± 0.2963
pull
Entries 58
Mean 3.588
Std Dev 11.76

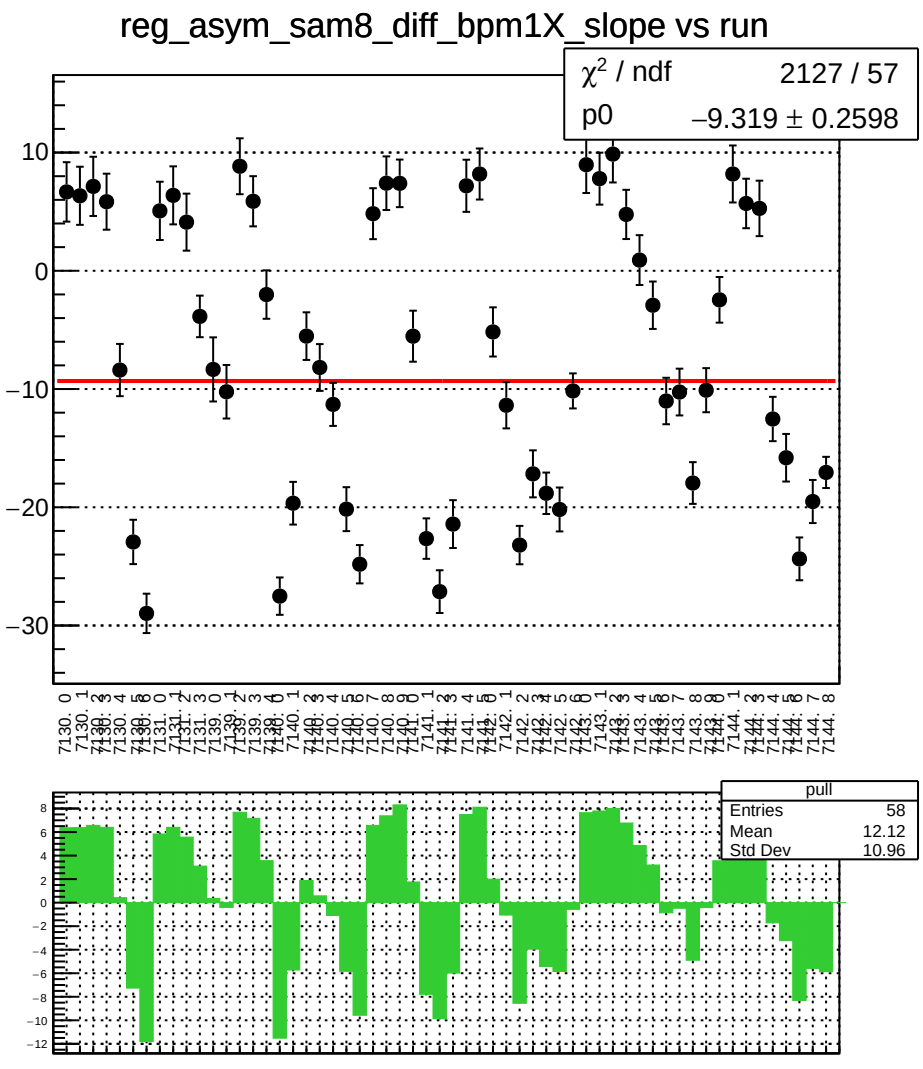

pull1D
Entries 58
Mean −0.3079
Std Dev 2.605

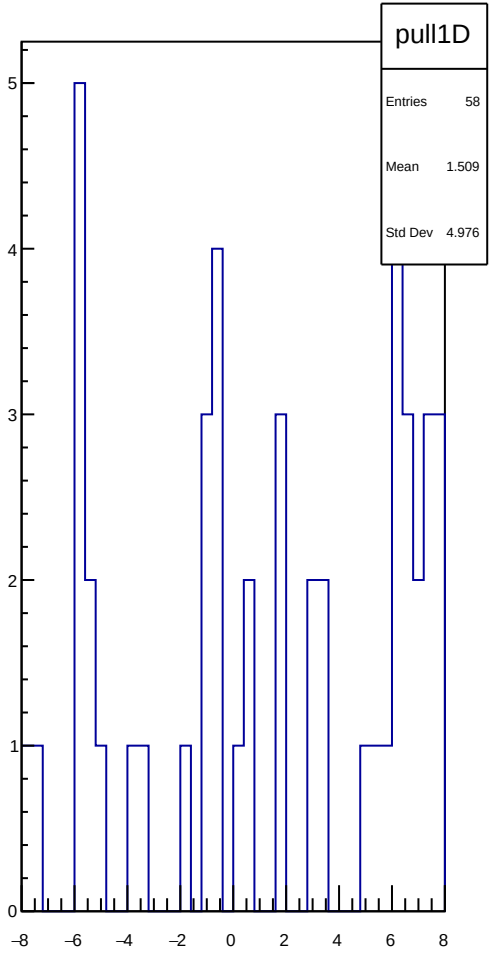

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 156 / 57
p0 −19.53 ± 0.2809
pull
Entries 58
Mean −119.9
Std Dev 145.2

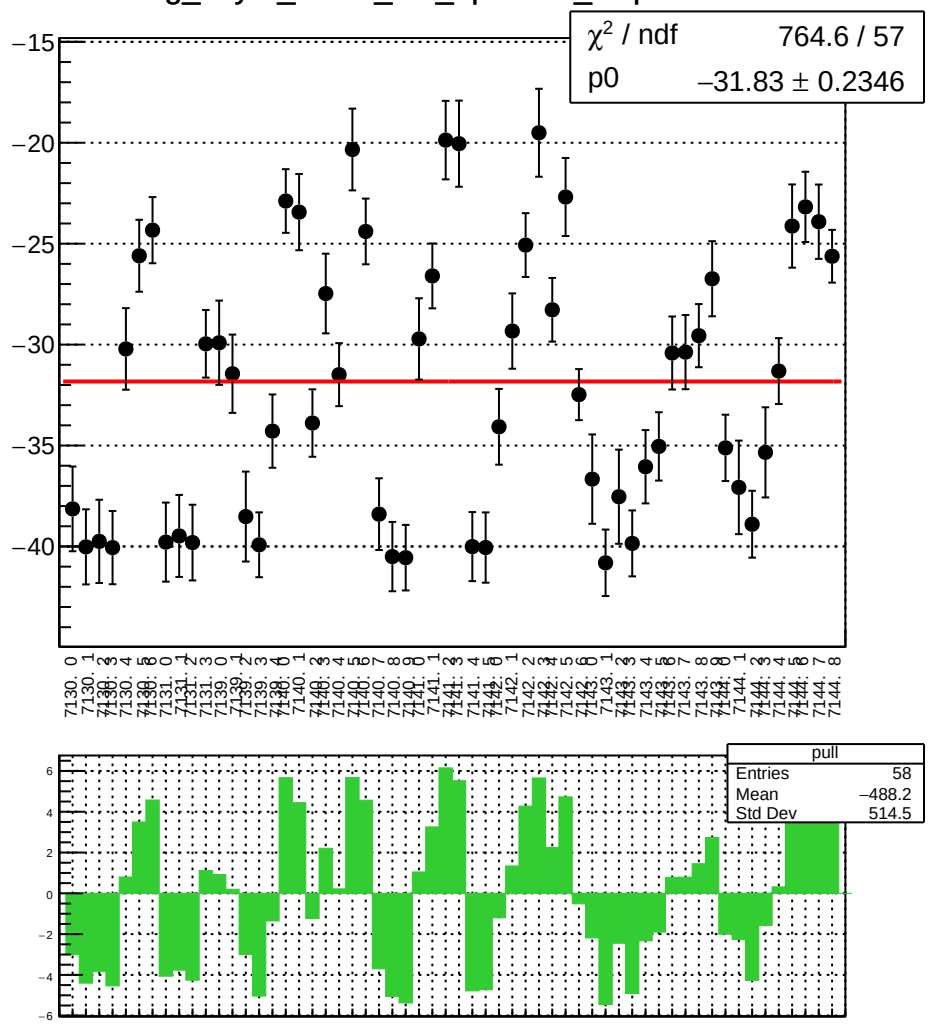

pull1D
Entries 58
Mean 0.03179
Std Dev 1.639

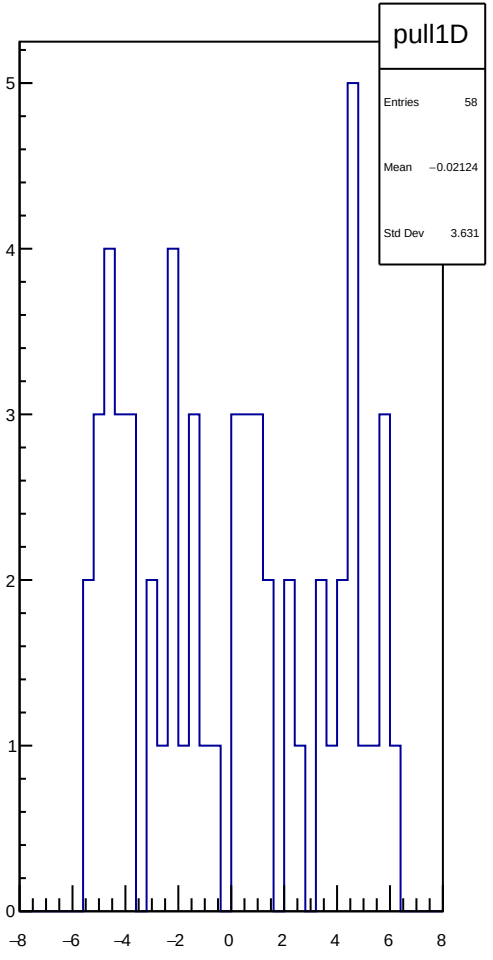

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 20.82 / 57
p0 0.4885 ± 0.013
pull
Entries 58
Mean 294.6
Std Dev 270

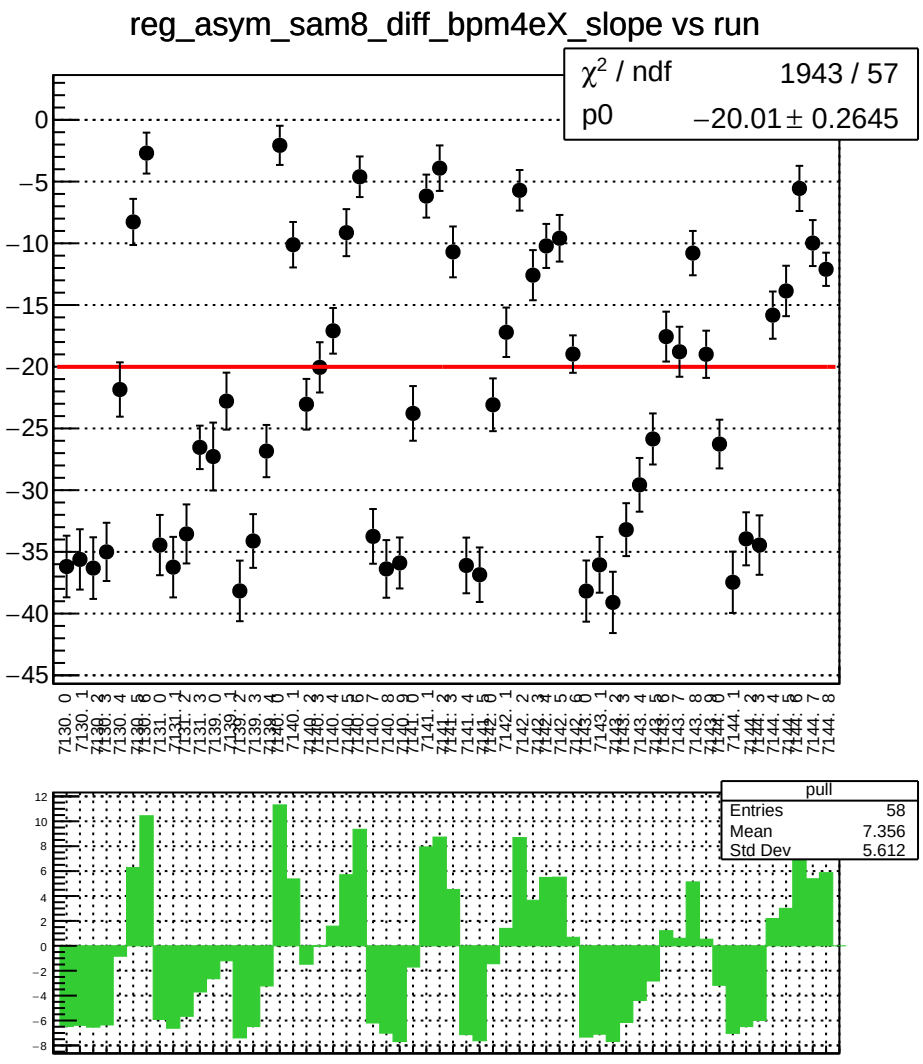

pull1D
Entries 58
Mean 0.02353
Std Dev 0.5987

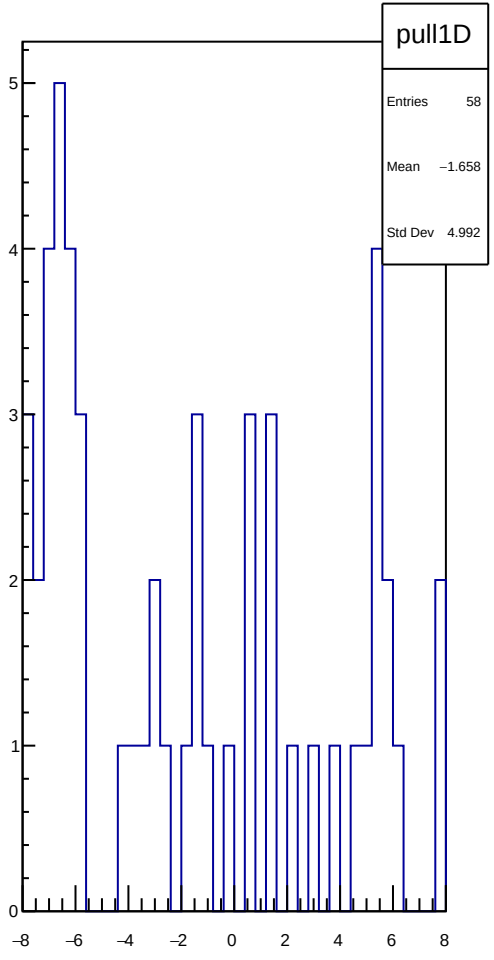

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 2127 / 57
p0 −9.319 ± 0.2598
pull
Entries 58
Mean 12.12
Std Dev 10.96

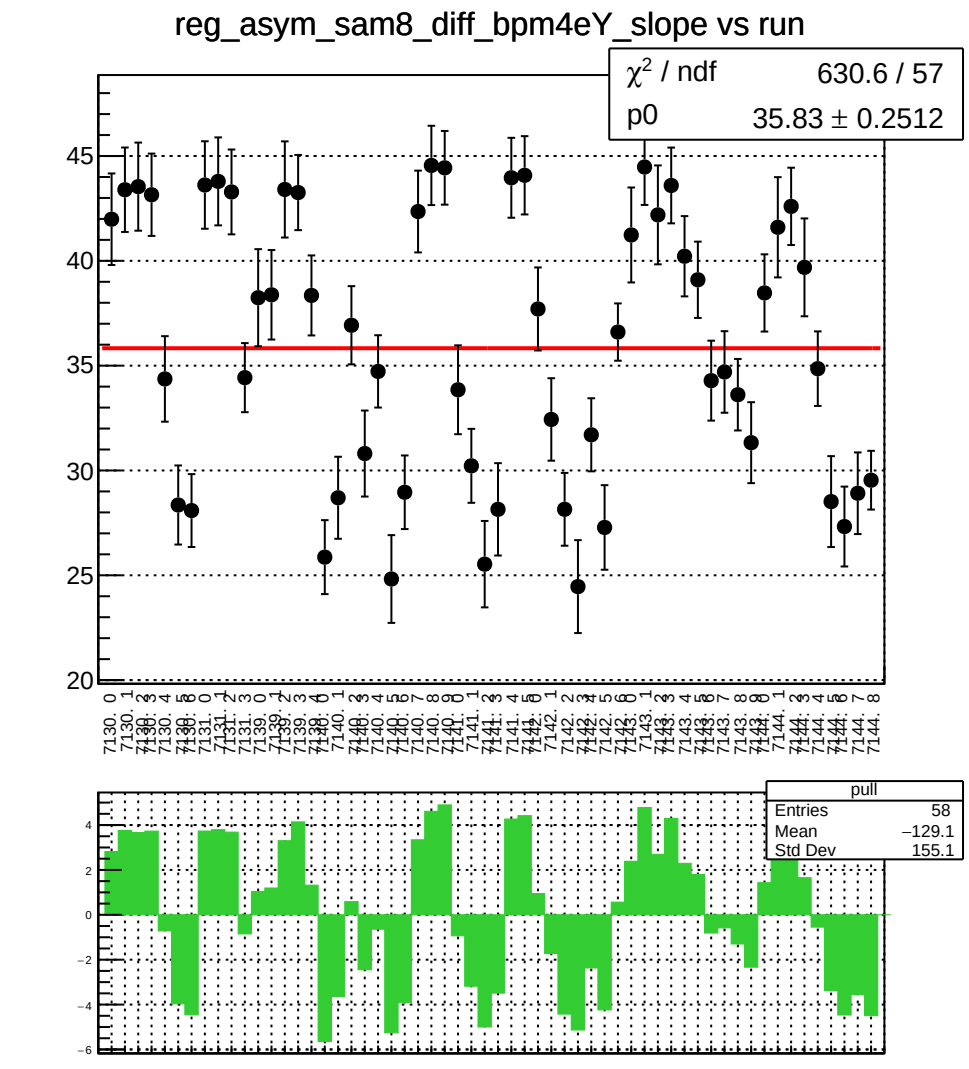

pull1D
Entries 58
Mean 1.509
Std Dev 4.976

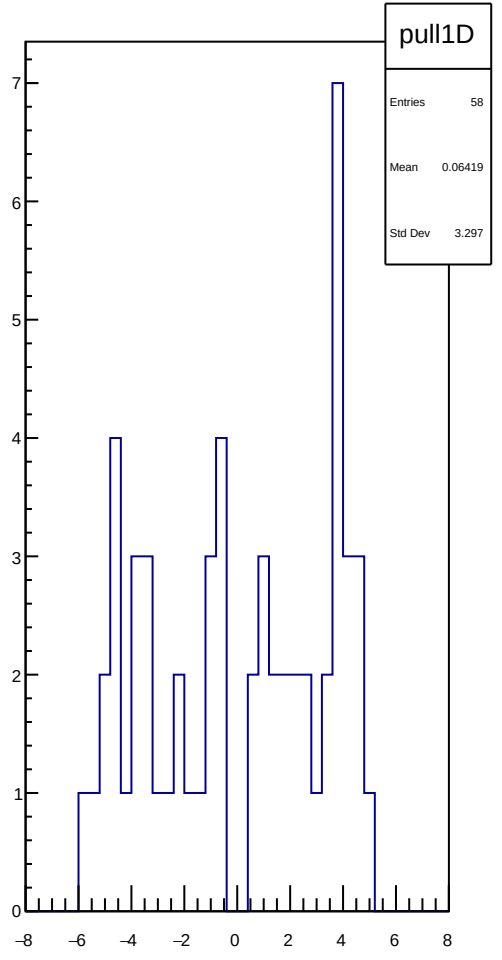

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 764.6 / 57
p0 −31.83 ± 0.2346
pull
Entries 58
Mean −488.2
Std Dev 514.5

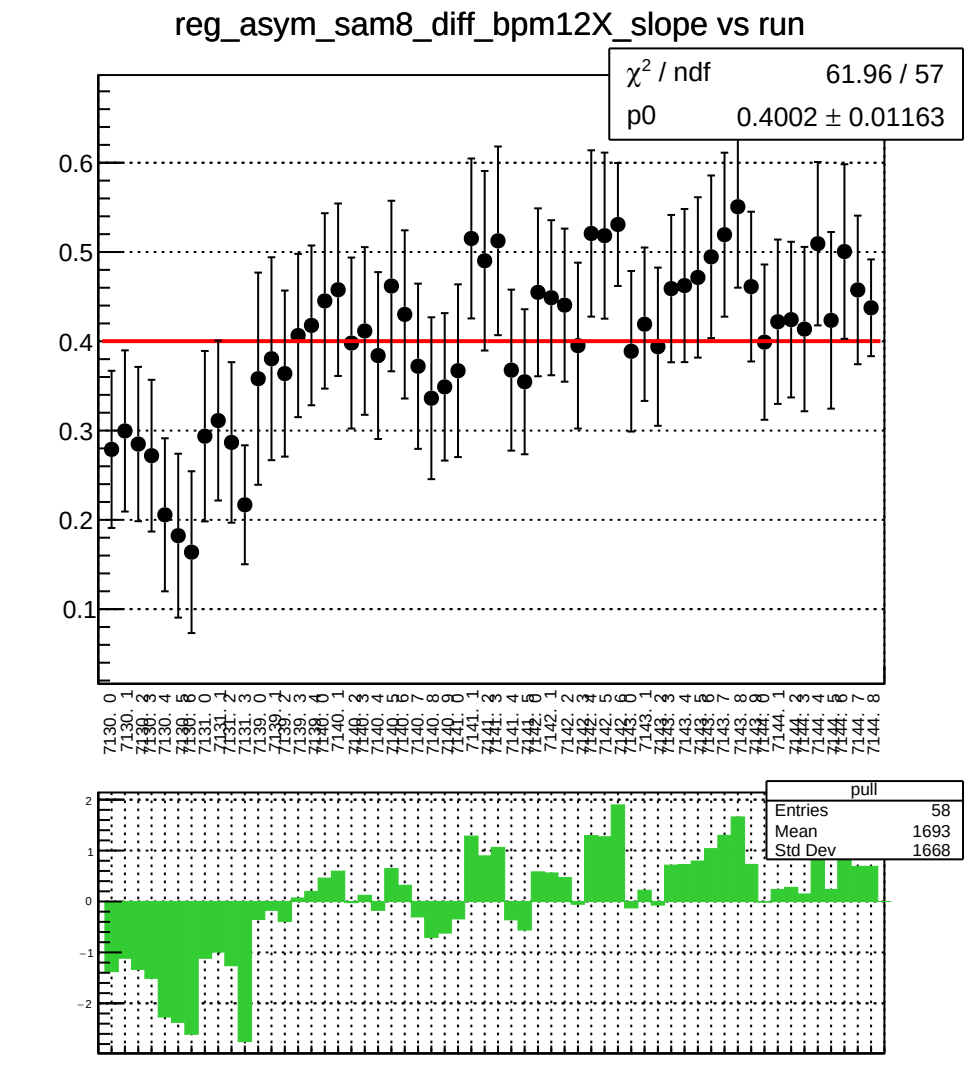

pull1D
Entries 58
Mean −0.02124
Std Dev 3.631

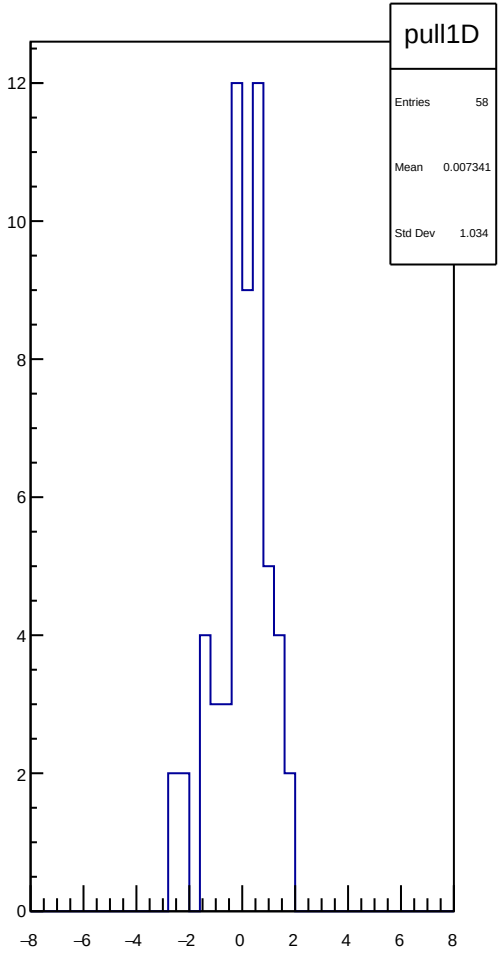

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 1943 / 57
p0 −20.01 ± 0.2645
pull
Entries 58
Mean 7.356
Std Dev 5.612

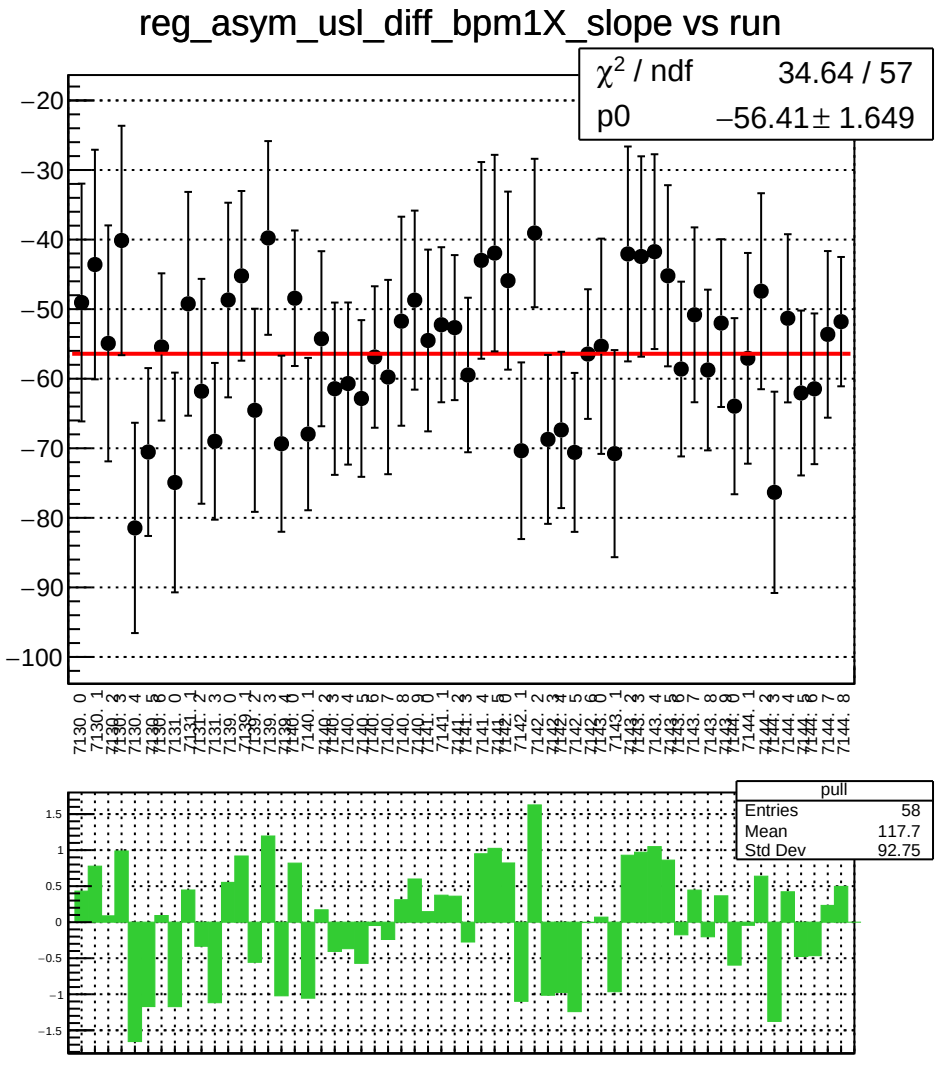

pull1D
Entries 58
Mean −1.658
Std Dev 4.992

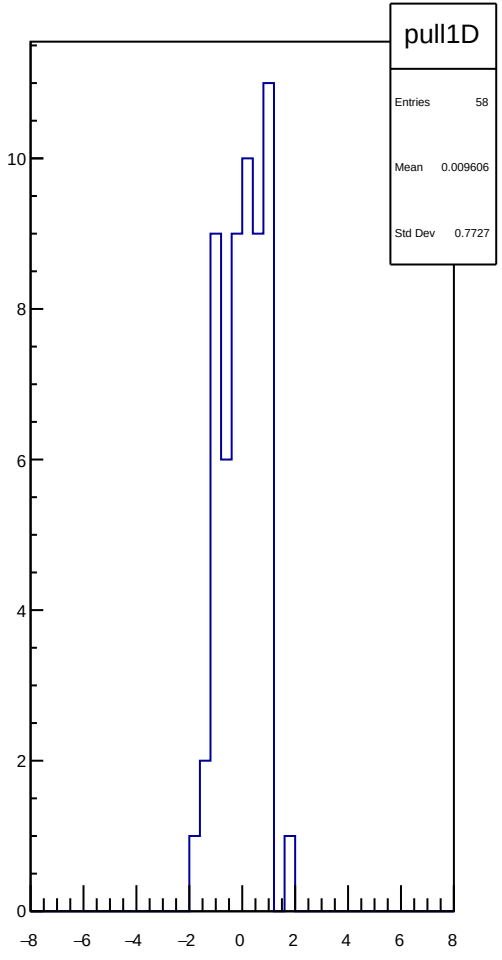

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 630.6 / 57
p0 35.83 ± 0.2512
pull
Entries 58
Mean −129.1
Std Dev 155.1

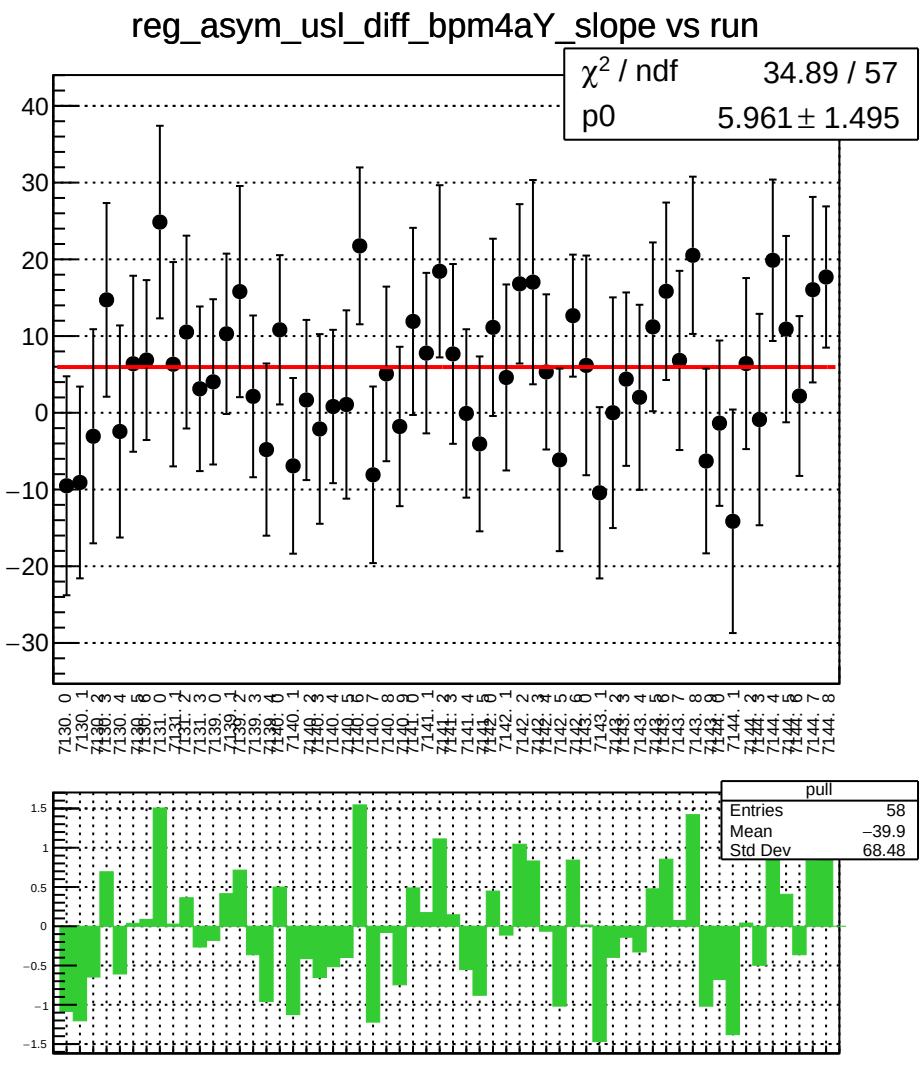

pull1D
Entries 58
Mean 0.06419
Std Dev 3.297

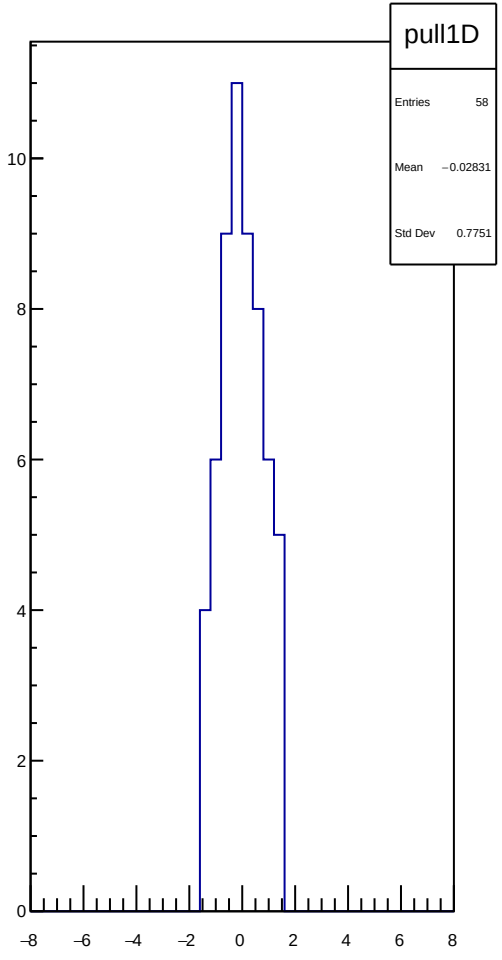

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 61.96 / 57
p0 0.4002 ± 0.01163
pull
Entries 58
Mean 1693
Std Dev 1668

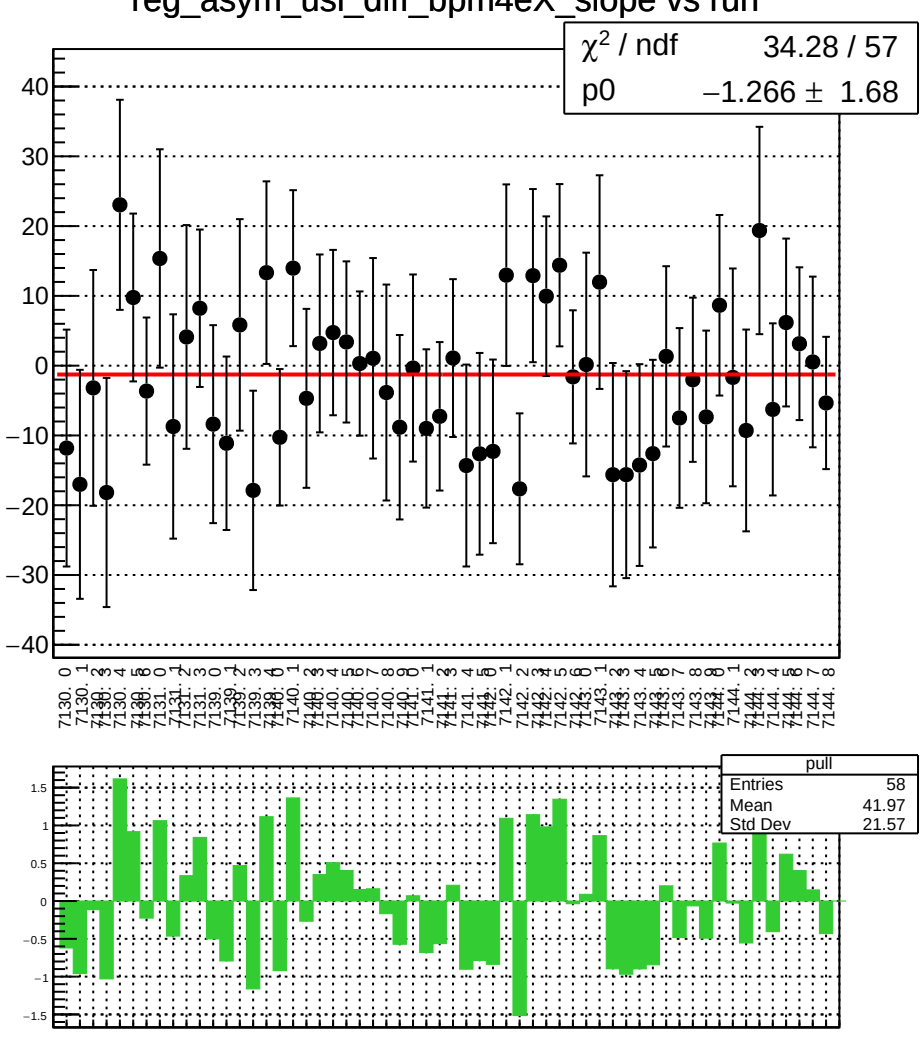

pull1D
Entries 58
Mean 0.007341
Std Dev 1.034

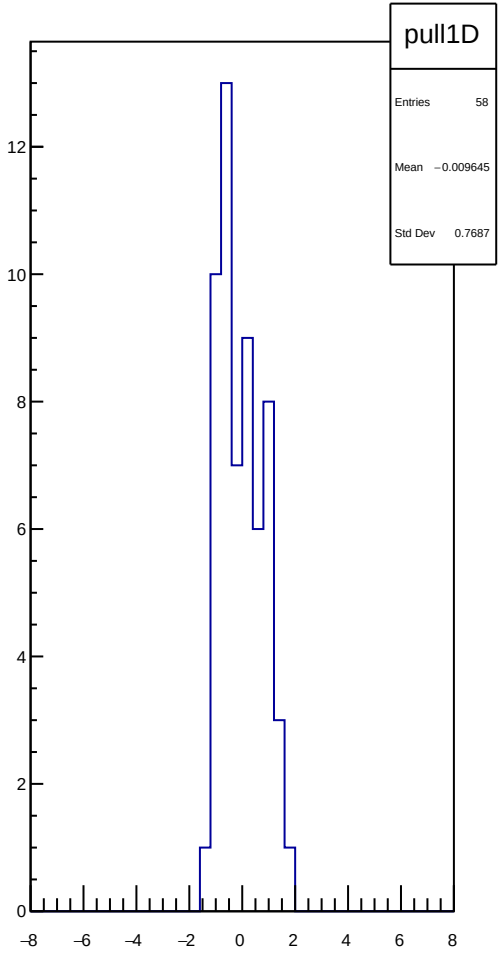

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 34.64 / 57
p0 −56.41± 1.649
pull
Entries 58
Mean 117.7
Std Dev 92.75

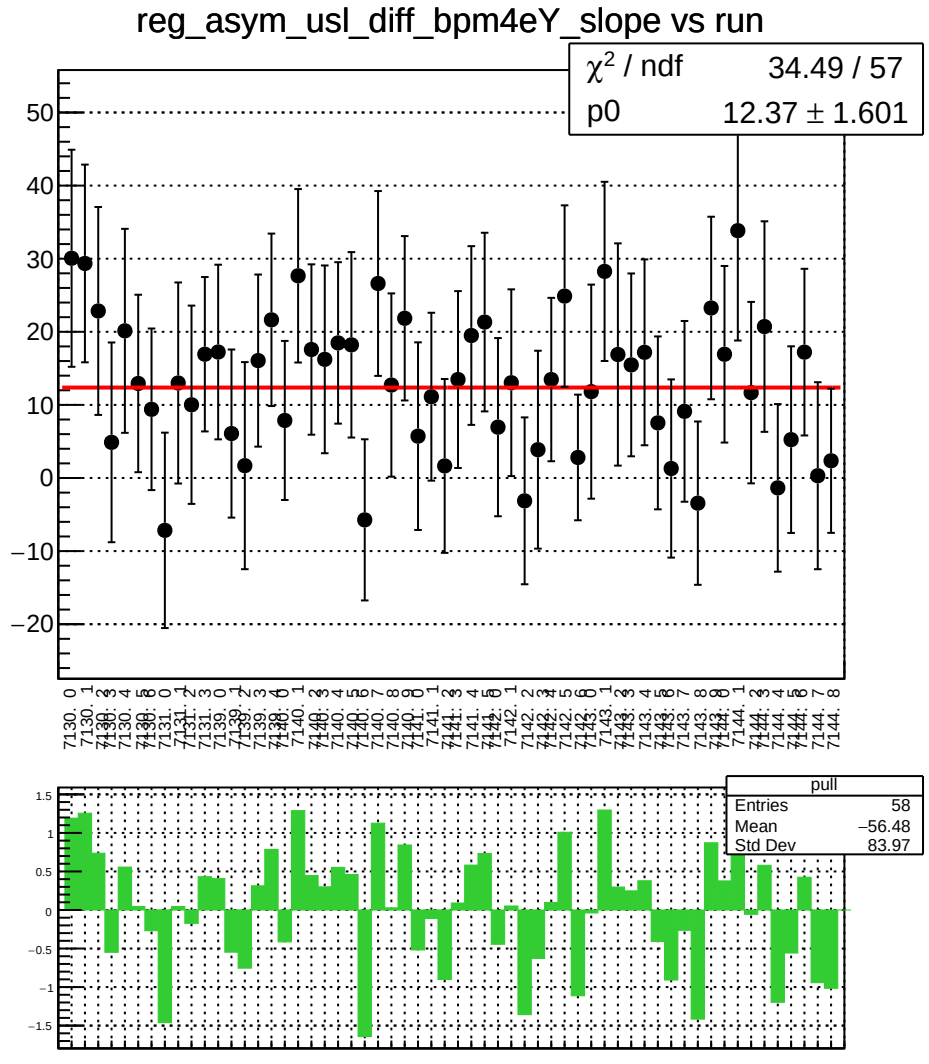

pull1D
Entries 58
Mean 0.009606
Std Dev 0.7727

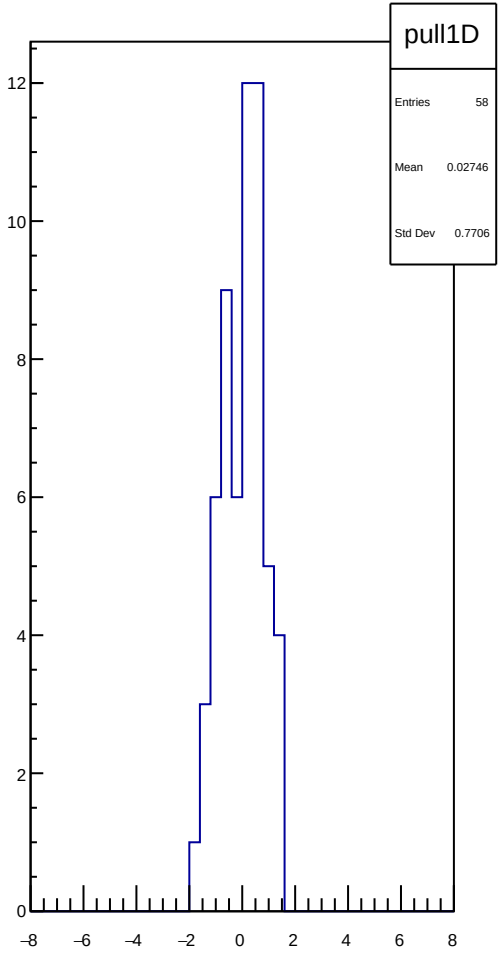

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 34.89 / 57
p0 5.961 ± 1.495
pull
Entries 58
Mean −39.9
Std Dev 68.48

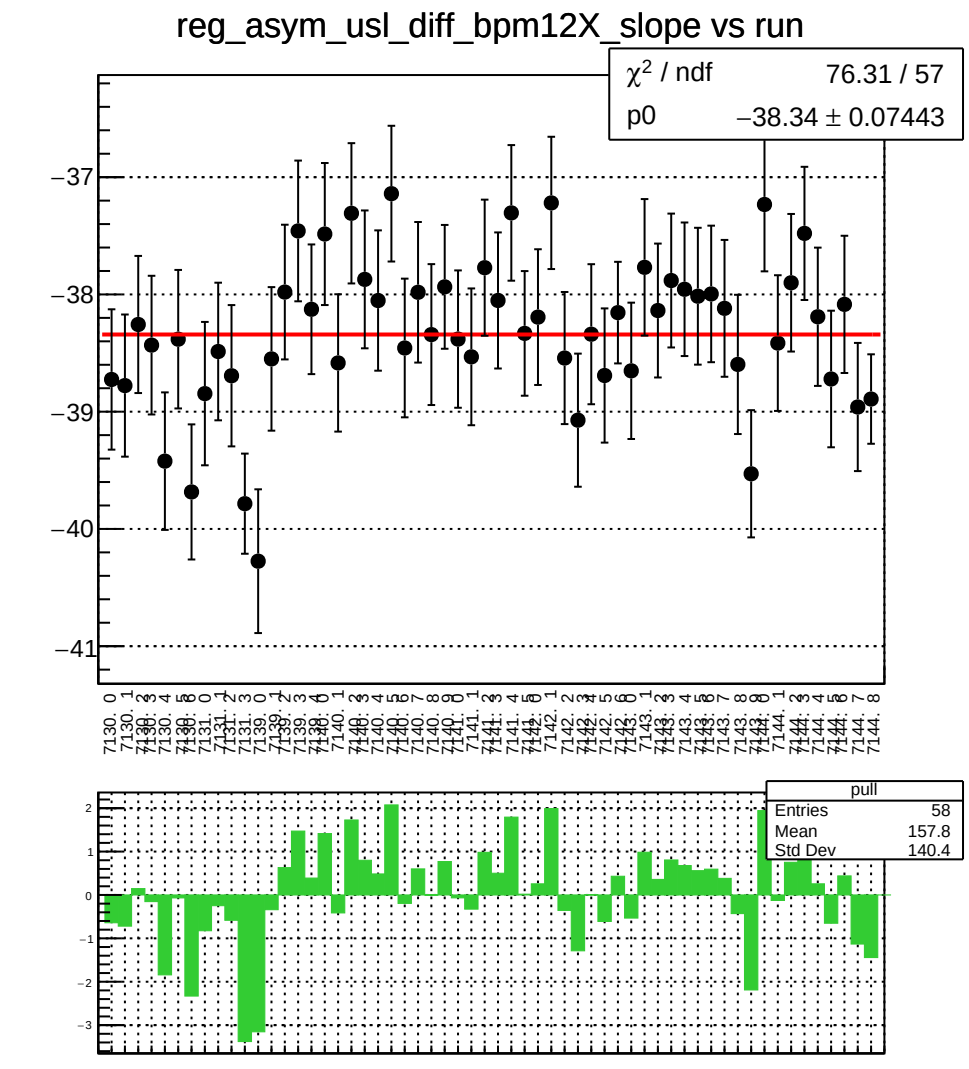

pull1D
Entries 58
Mean −0.02831
Std Dev 0.7751

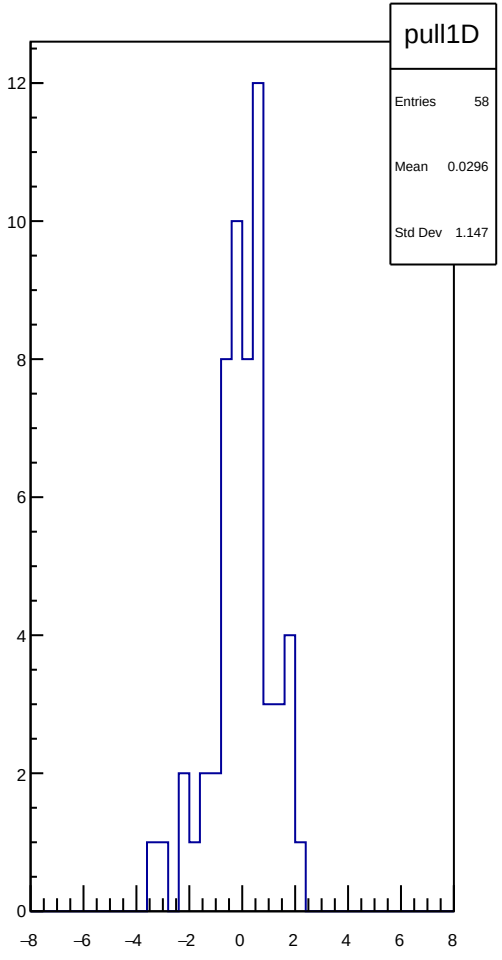

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 34.28 / 57
p0 −1.266 ± 1.68
pull
Entries 58
Mean 41.97
Std Dev 21.57

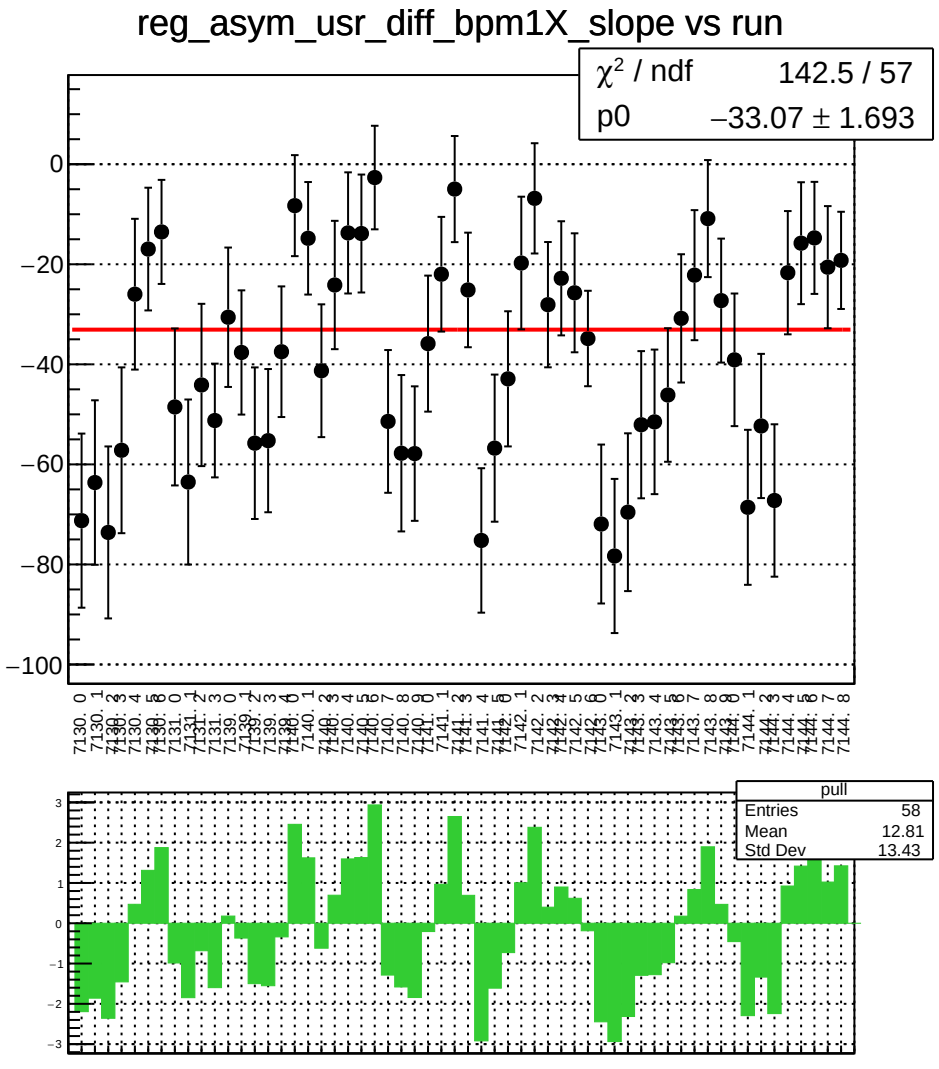

pull1D
Entries 58
Mean −0.009645
Std Dev 0.7687

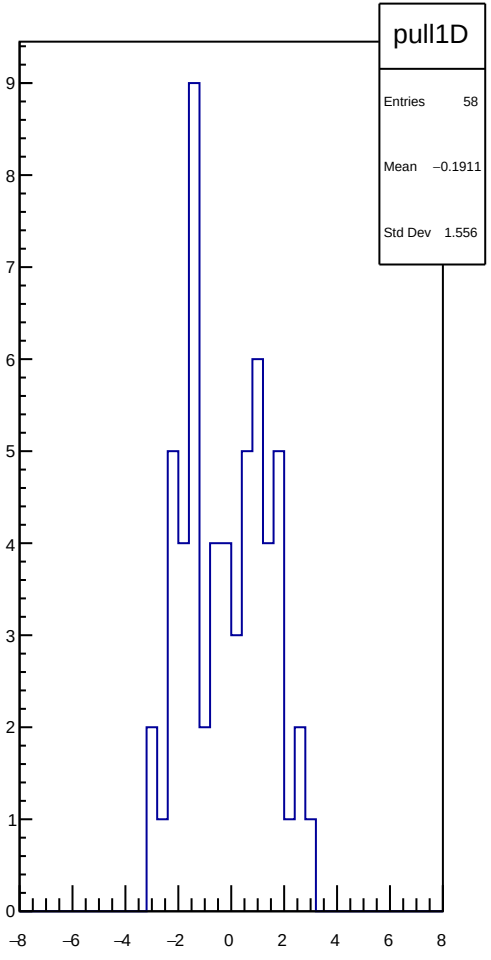

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 34.49 / 57
p0 12.37 ± 1.601
pull
Entries 58
Mean −56.48
Std Dev 83.97

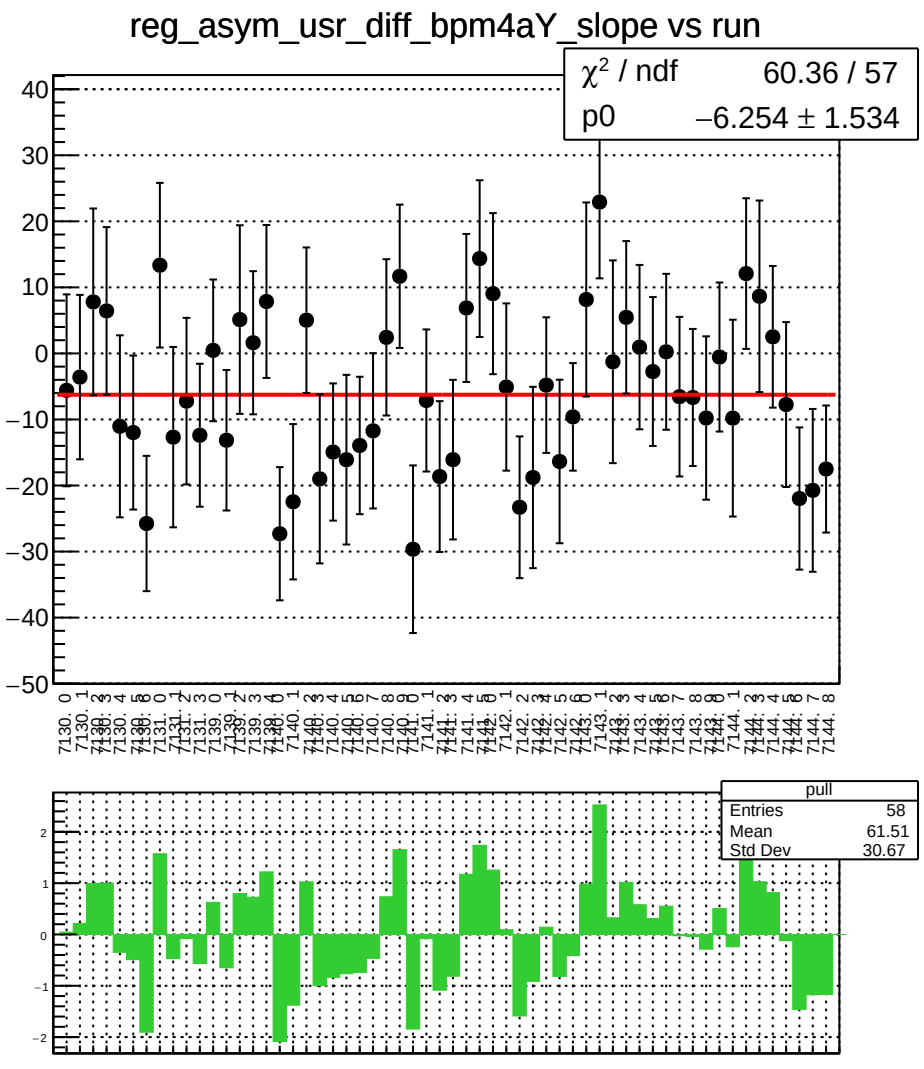

pull1D
Entries 58
Mean 0.02746
Std Dev 0.7706

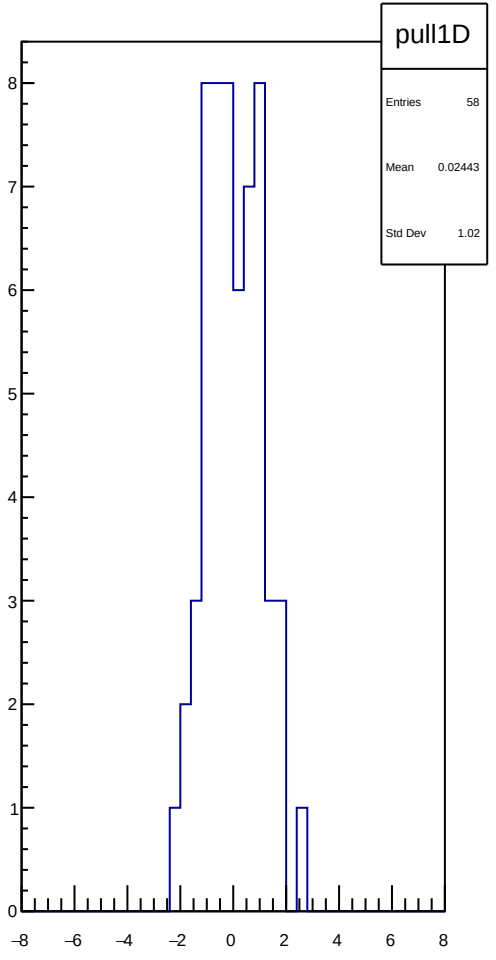

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 76.31 / 57
p0 −38.34 ± 0.07443
pull
Entries 58
Mean 157.8
Std Dev 140.4

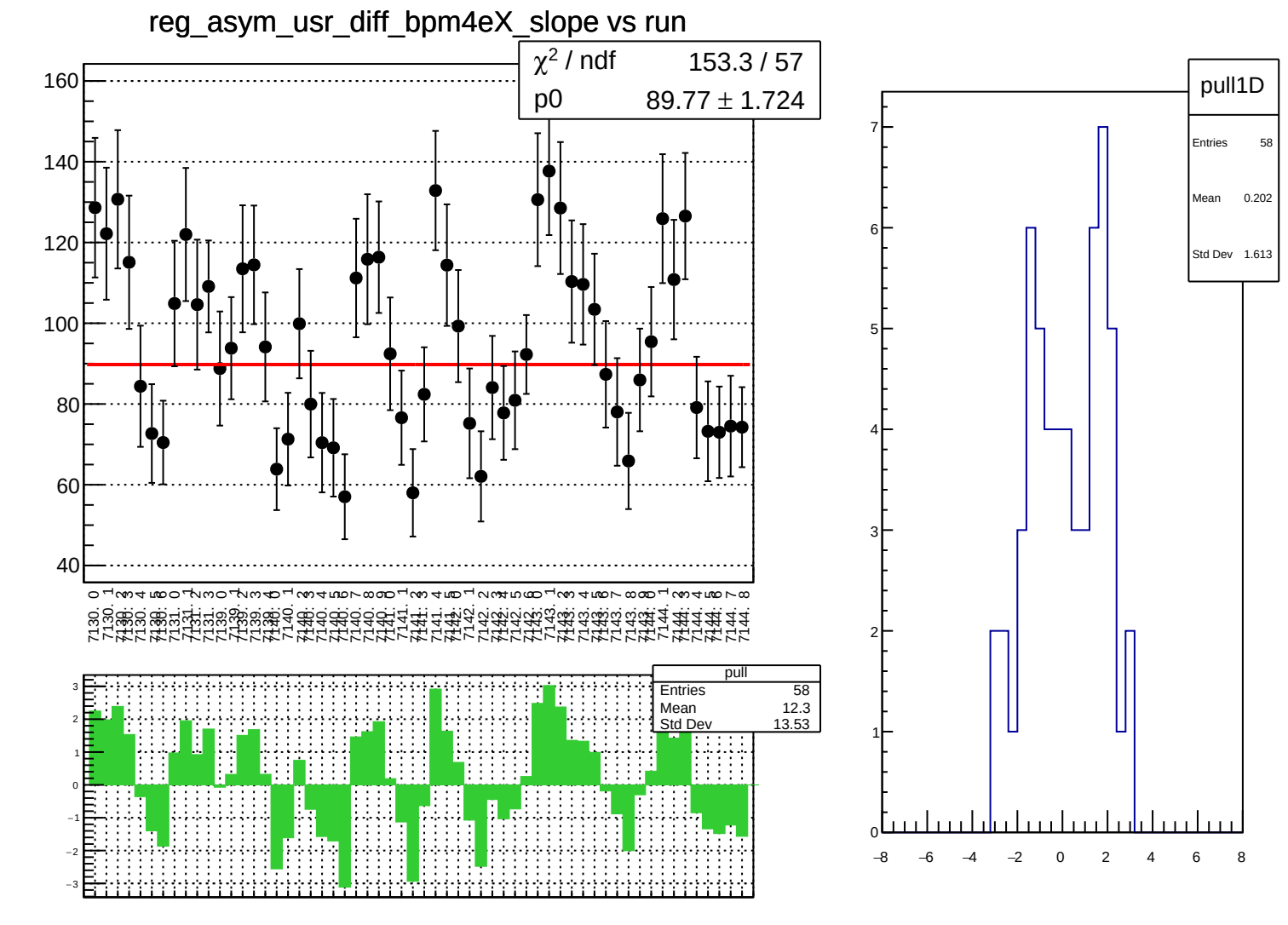

pull1D
Entries 58
Mean 0.0296
Std Dev 1.147

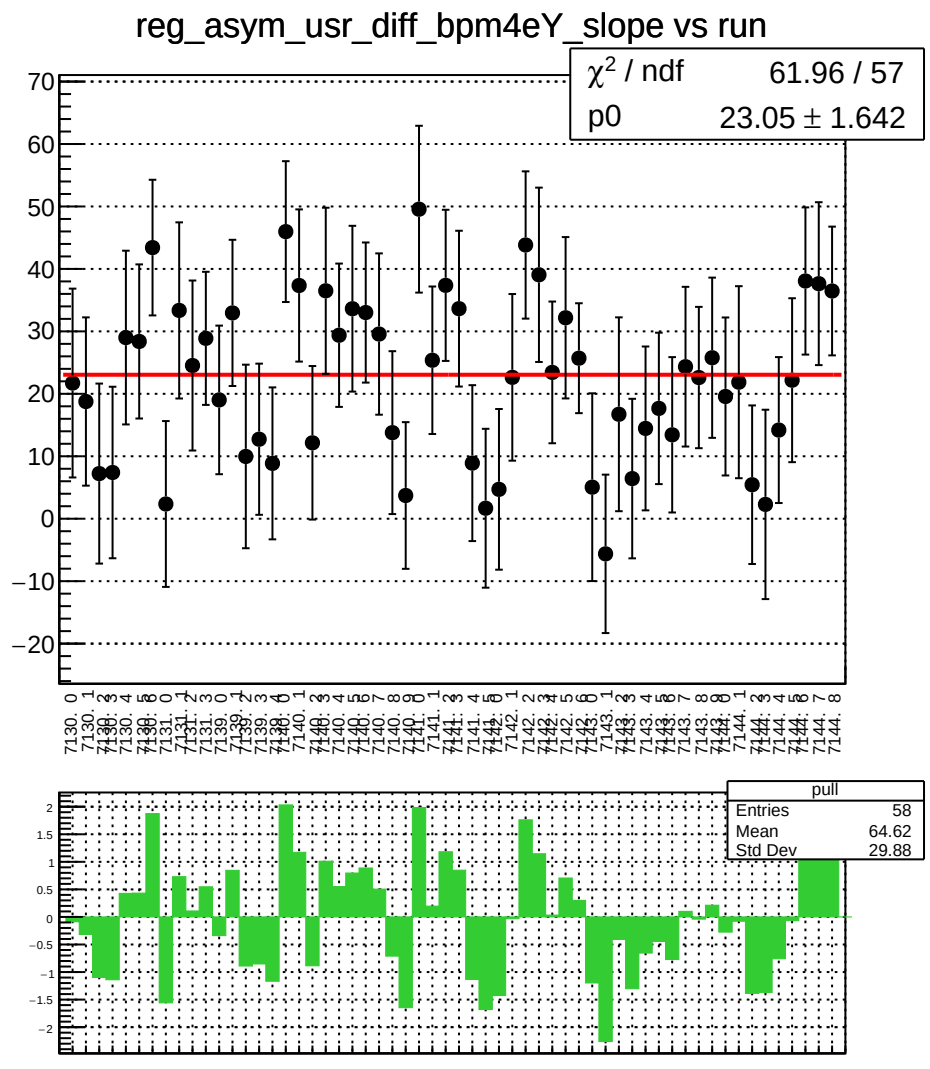

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 142.5 / 57
p0 −33.07 ± 1.693
pull
Entries 58
Mean 12.81
Std Dev 13.43

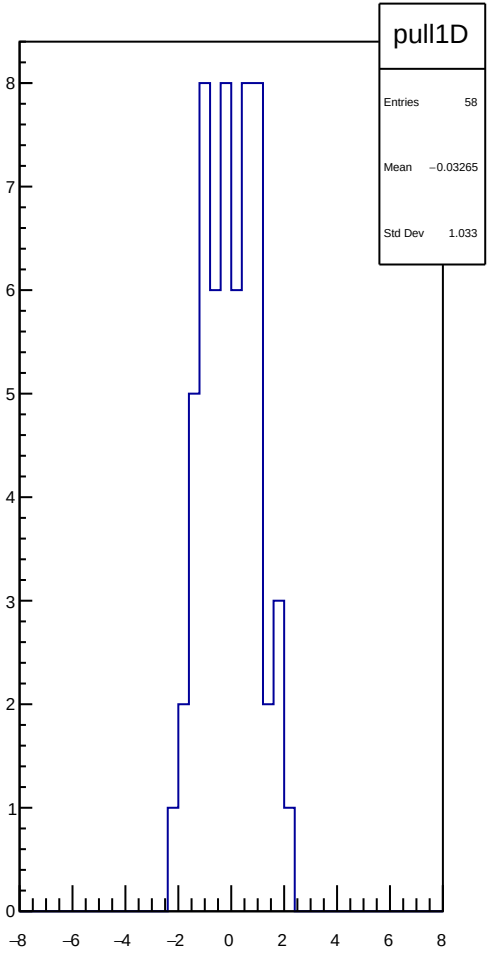

pull1D
Entries 58
Mean −0.1911
Std Dev 1.556

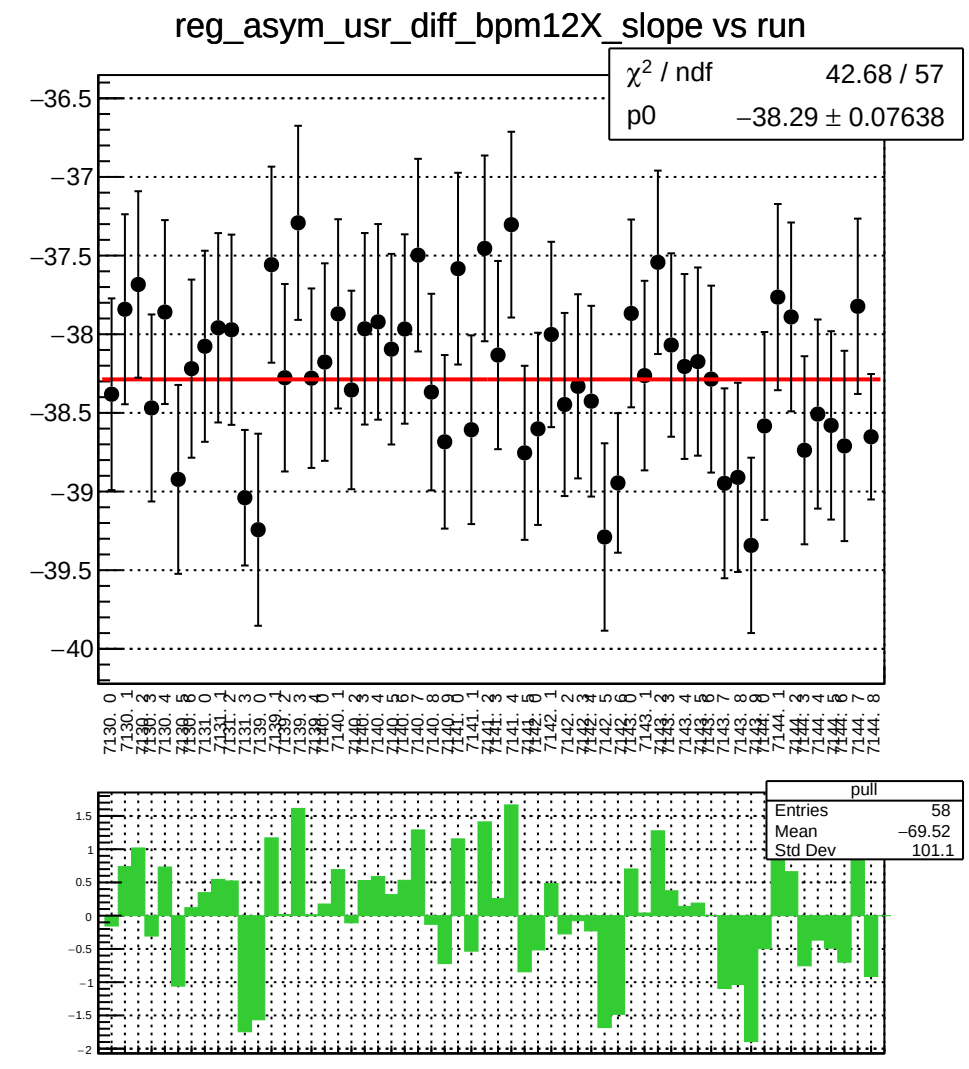

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 60.36 / 57
p0 −6.254 ± 1.534
pull
Entries 58
Mean 61.51
Std Dev 30.67

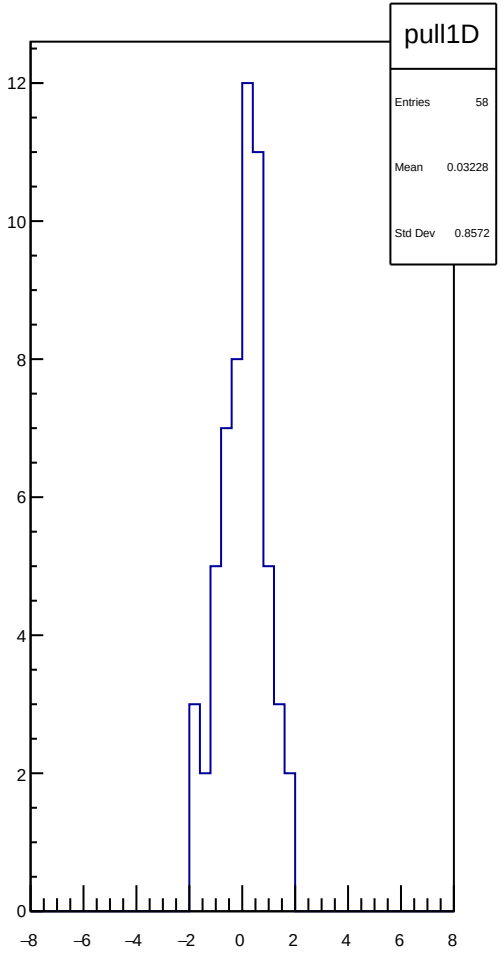

pull1D
Entries 58
Mean 0.02443
Std Dev 1.02

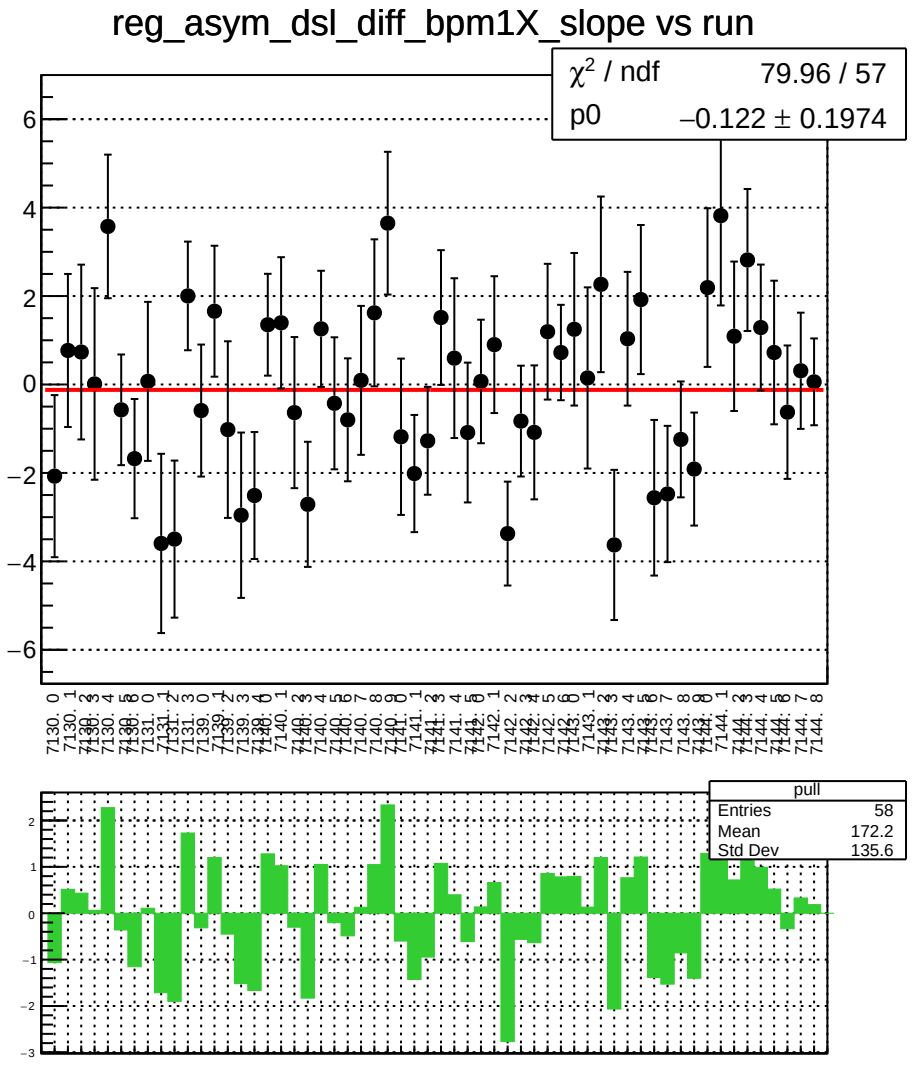

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 153.3 / 57
p0 89.77 ± 1.724
pull
Entries 58
Mean 12.3
Std Dev 13.53
pull1D
Entries 58
Mean 0.202
Std Dev 1.613

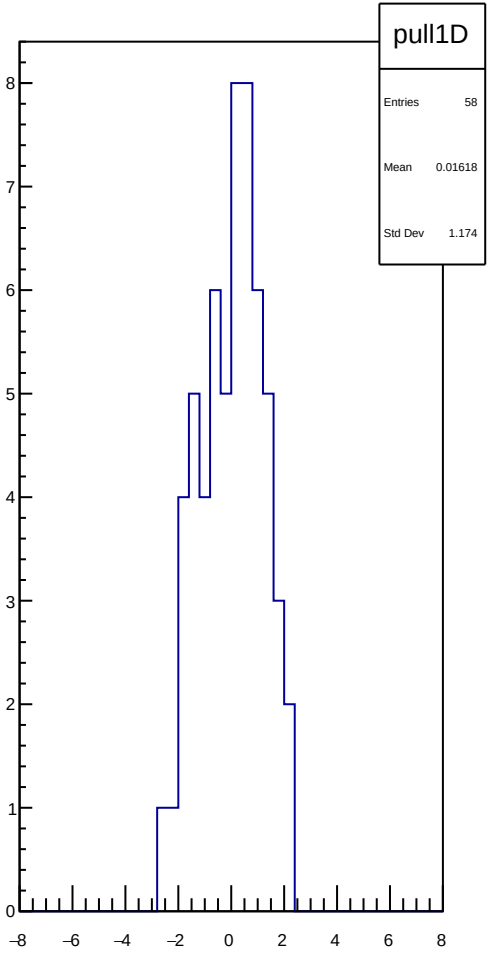

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 61.96 / 57
p0 23.05 ± 1.642
pull
Entries 58
Mean 64.62
Std Dev 29.88

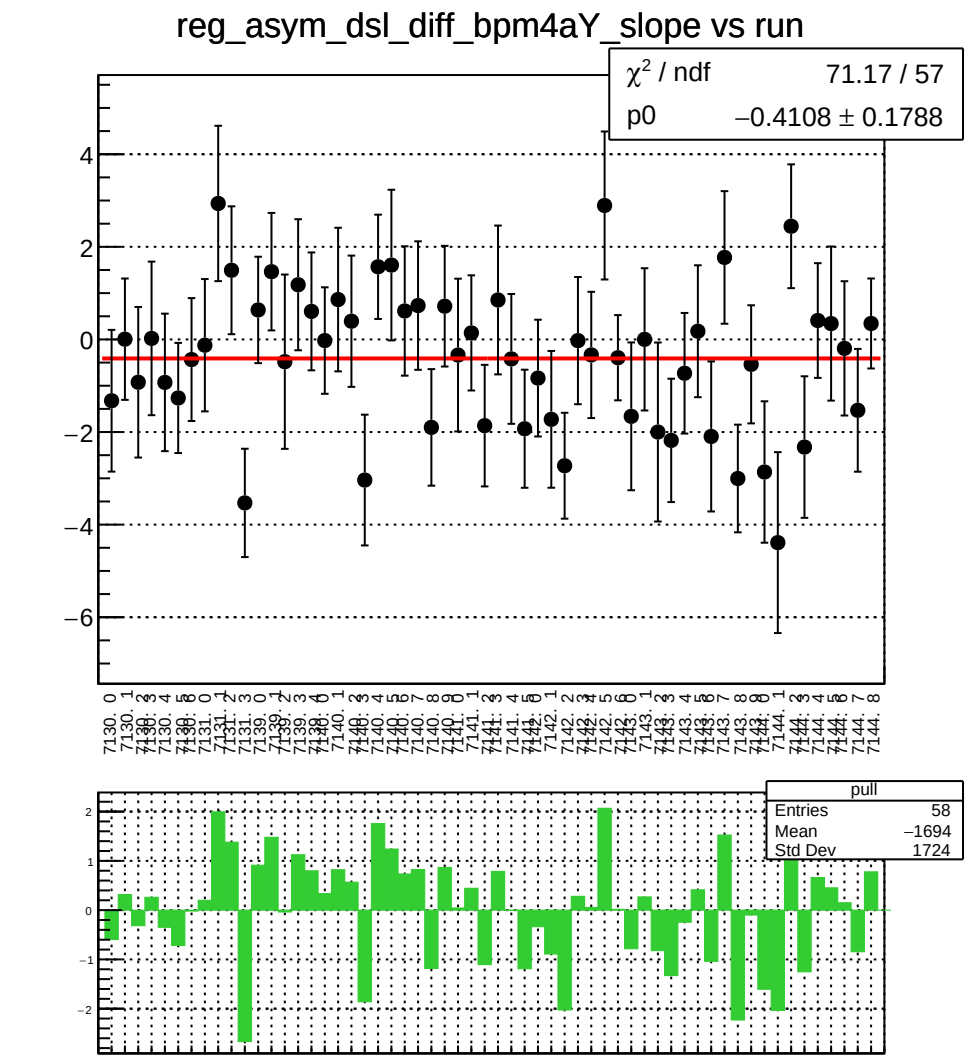

pull1D
Entries 58
Mean −0.03265
Std Dev 1.033

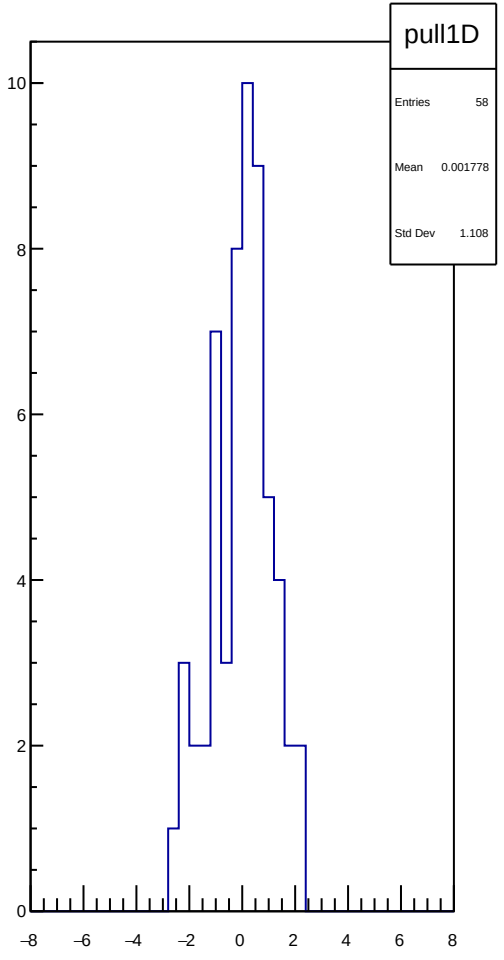

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 42.68 / 57
p0 −38.29 ± 0.07638
pull
Entries 58
Mean −69.52
Std Dev 101.1

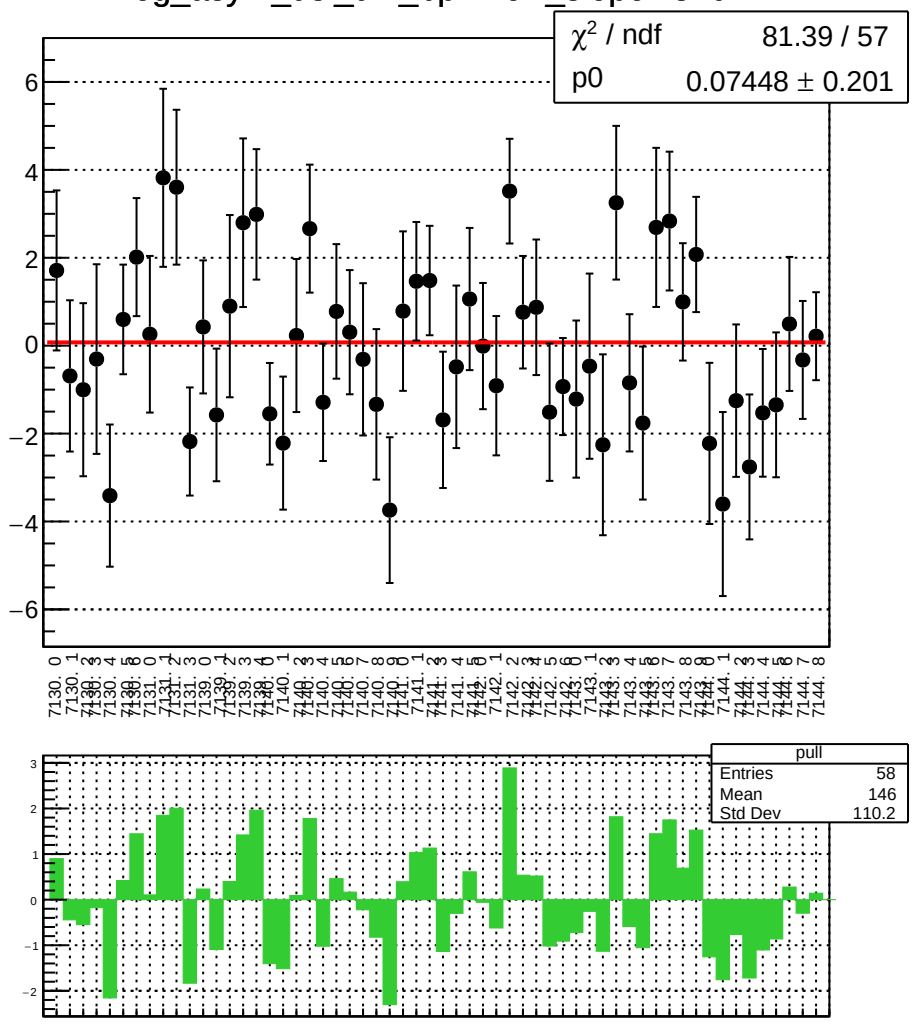

pull1D
Entries 58
Mean 0.03228
Std Dev 0.8572

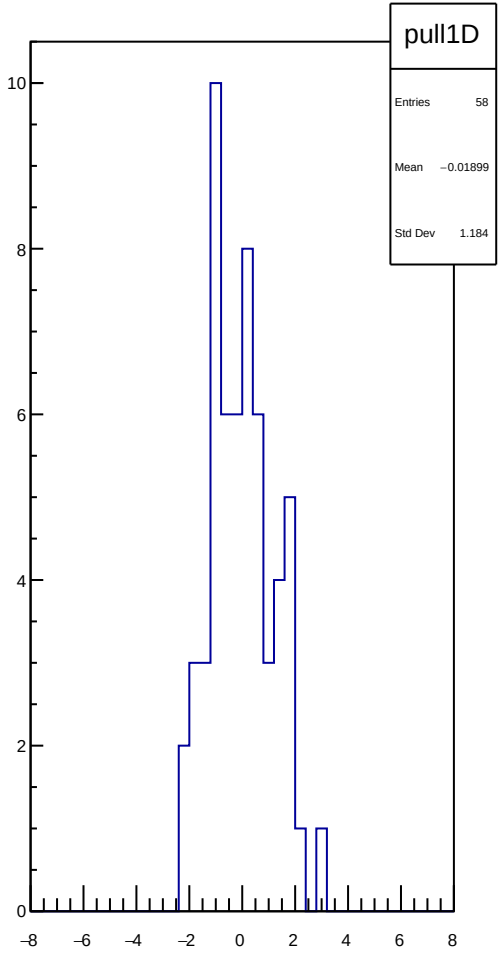

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 79.96 / 57
p0 −0.122 ± 0.1974
pull
Entries 58
Mean 172.2
Std Dev 135.6

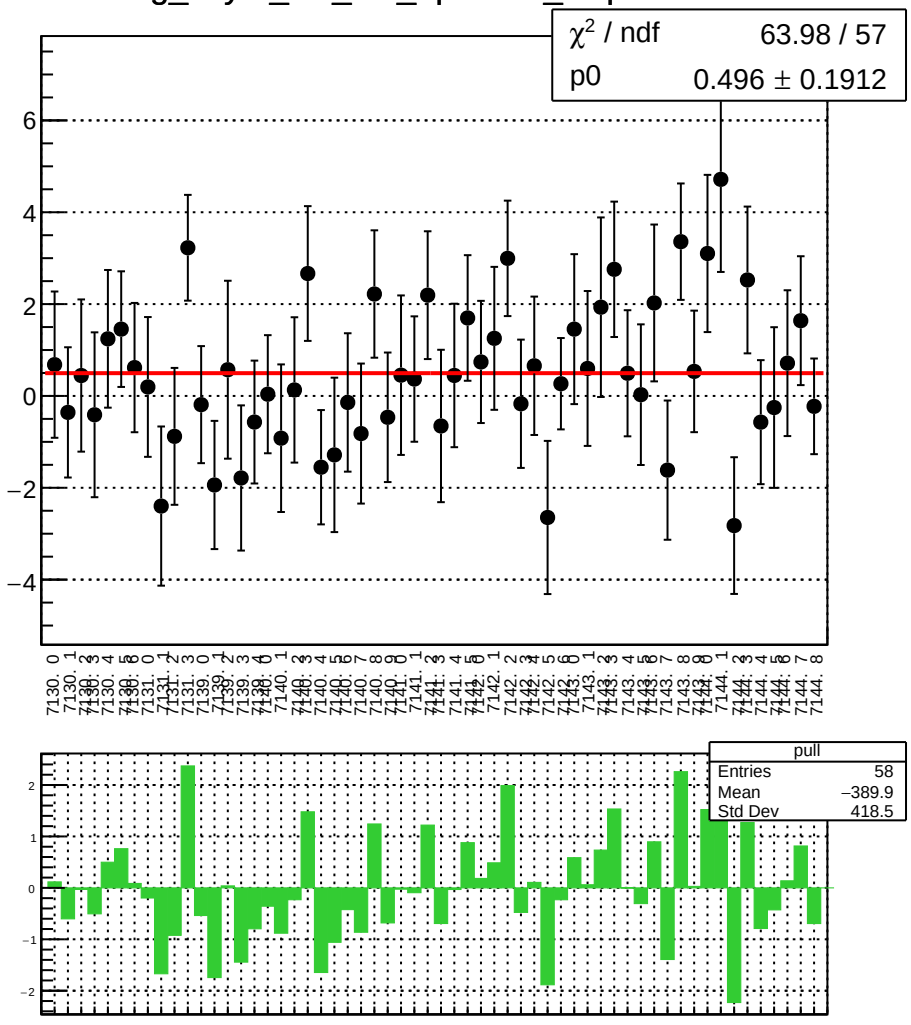

pull1D
Entries 58
Mean 0.01618
Std Dev 1.174

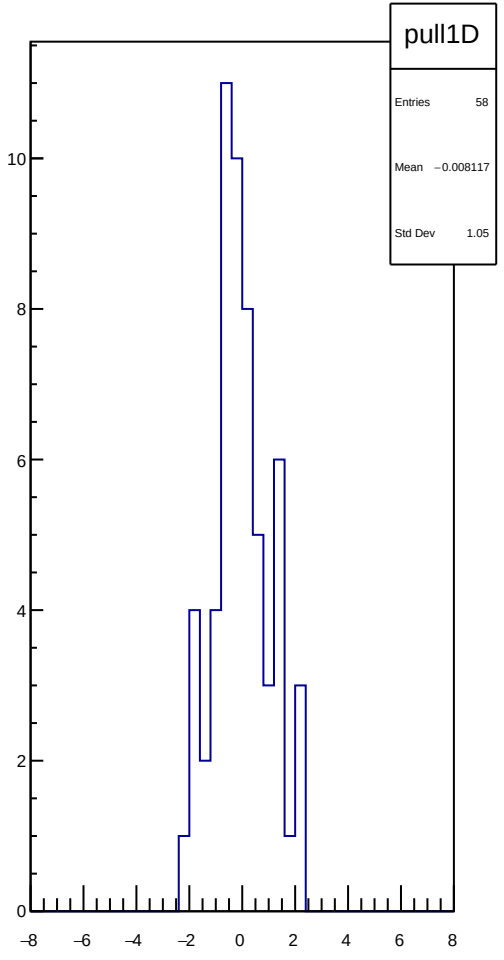

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 71.17 / 57
p0 −0.4108 ± 0.1788
pull
Entries 58
Mean −1694
Std Dev 1724

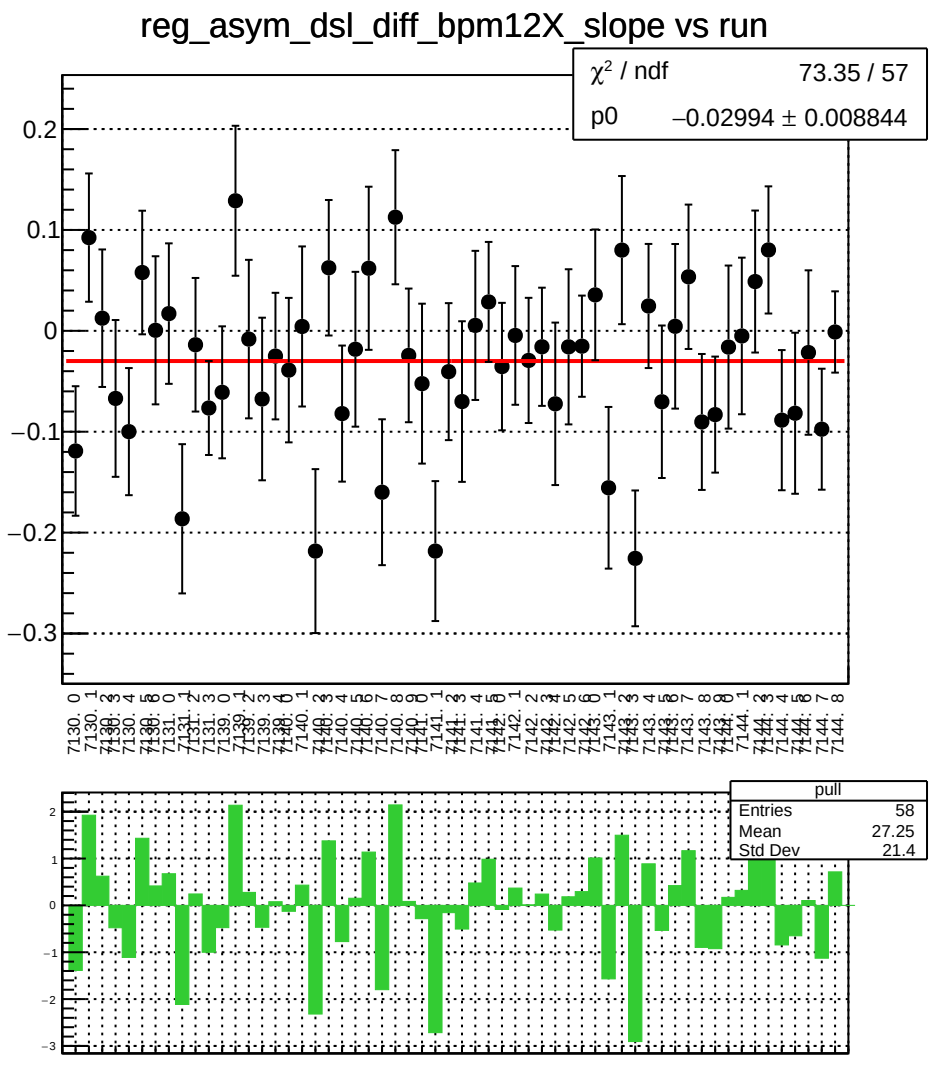

pull1D
Entries 58
Mean 0.001778
Std Dev 1.108

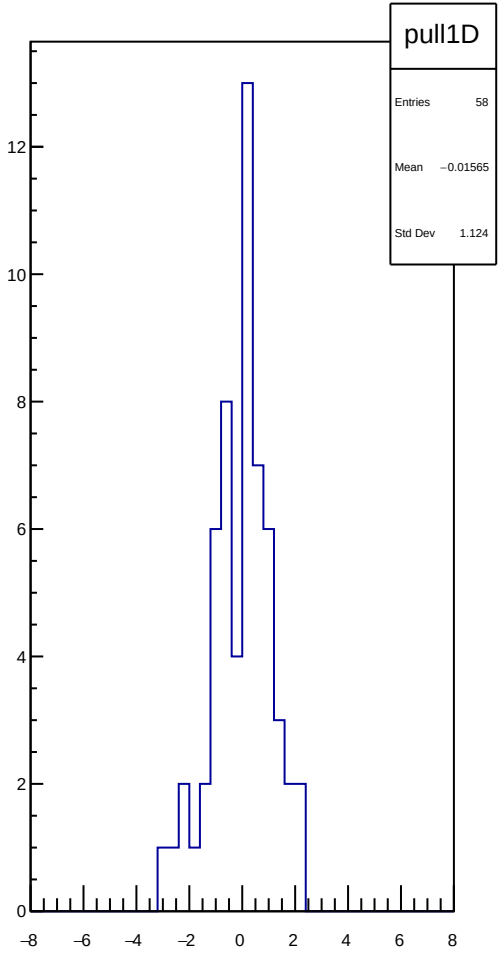

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 81.39 / 57
p0 0.07448 ± 0.201
pull
Entries 58
Mean 146
Std Dev 110.2

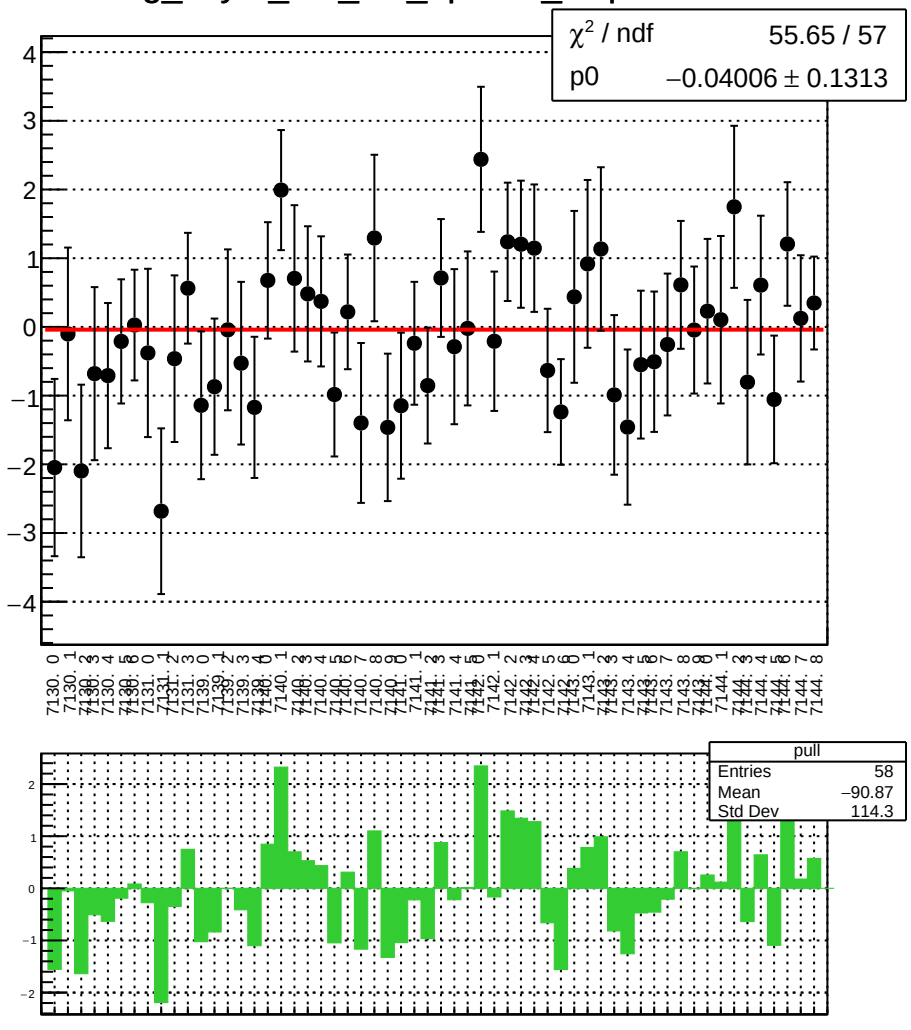

pull1D
Entries 58
Mean −0.01899
Std Dev 1.184

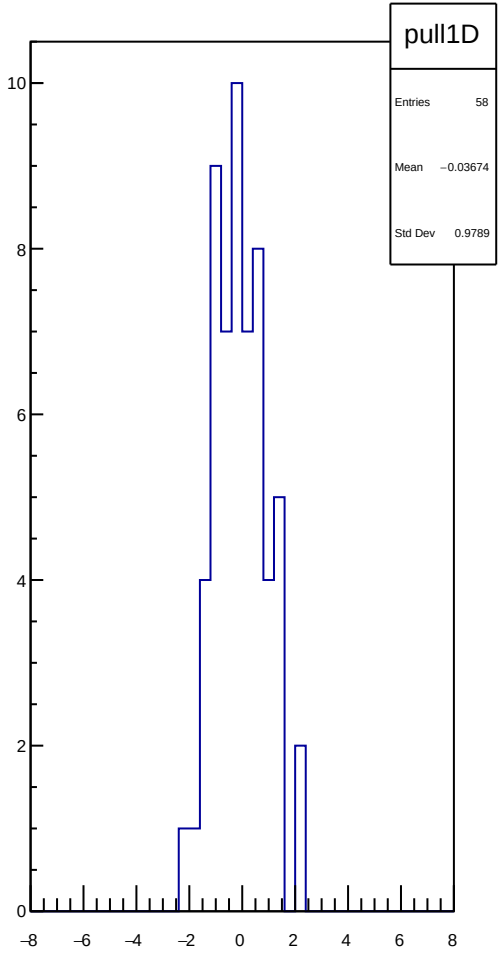

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 63.98 / 57
p0 0.496 ± 0.1912
pull
Entries 58
Mean −389.9
Std Dev 418.5

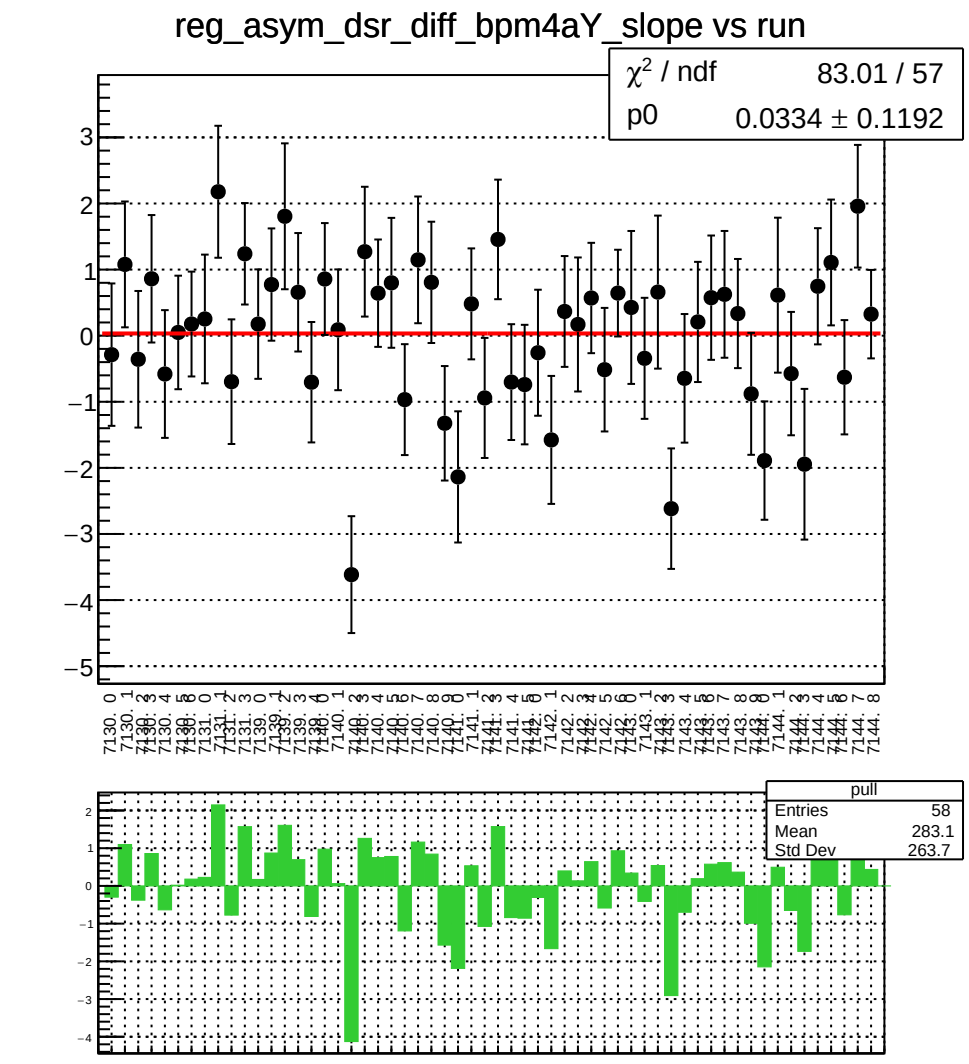

pull1D
Entries 58
Mean −0.008117
Std Dev 1.05

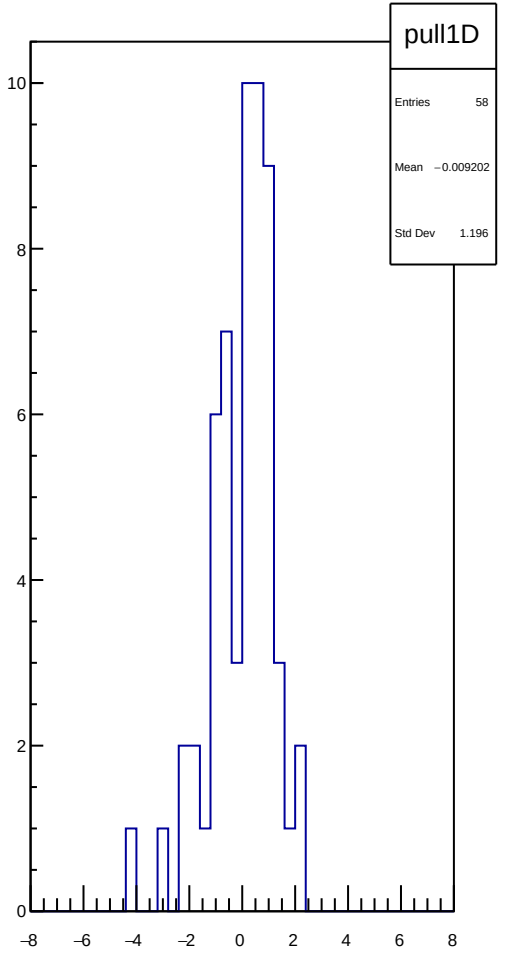

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 73.35 / 57
p0 −0.02994 ± 0.008844
pull
Entries 58
Mean 27.25
Std Dev 21.4

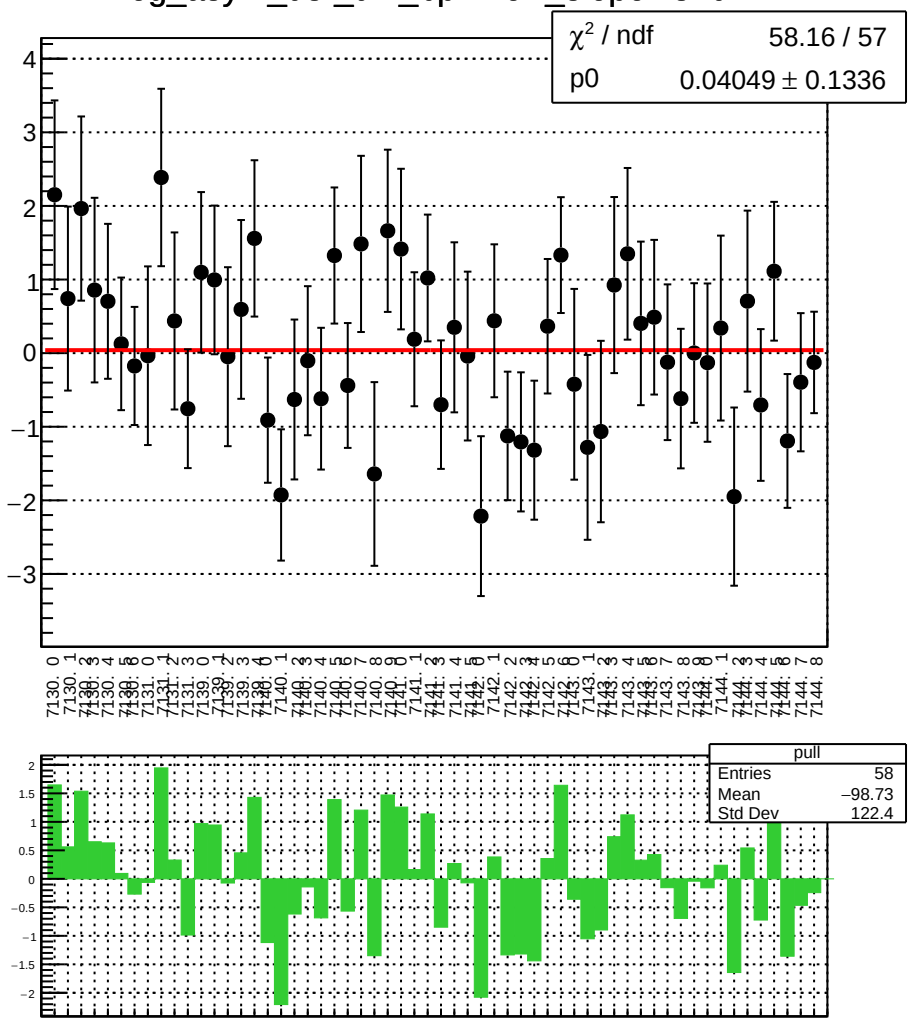

pull1D
Entries 58
Mean −0.01565
Std Dev 1.124

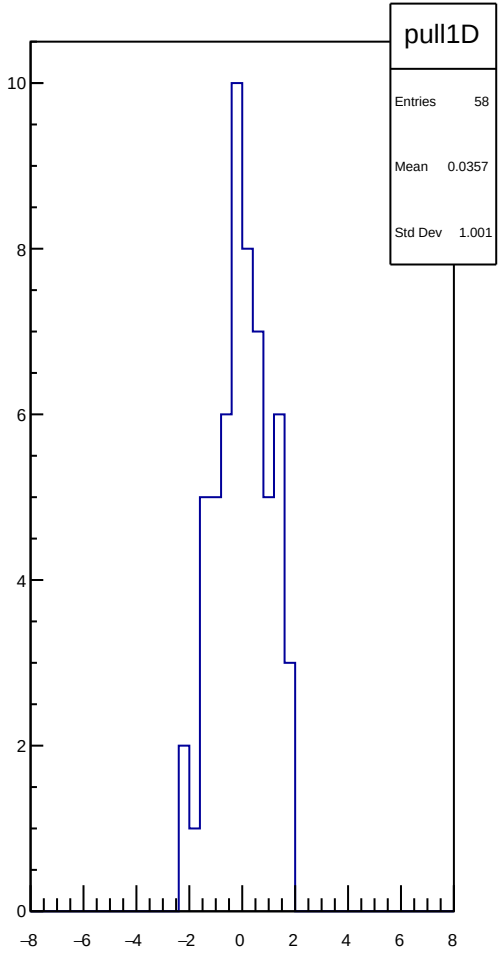

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 55.65 / 57
p0 −0.04006 ± 0.1313
pull
Entries 58
Mean −90.87
Std Dev 114.3

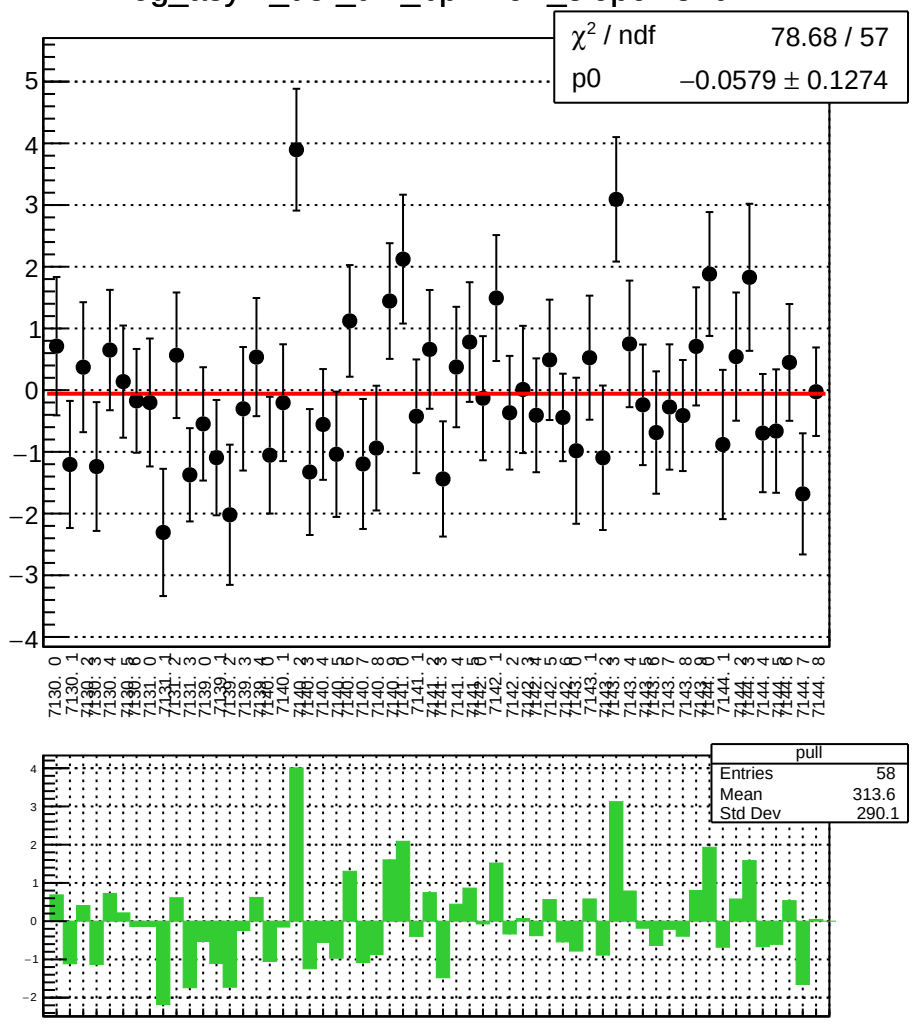

pull1D
Entries 58
Mean −0.03674
Std Dev 0.9789

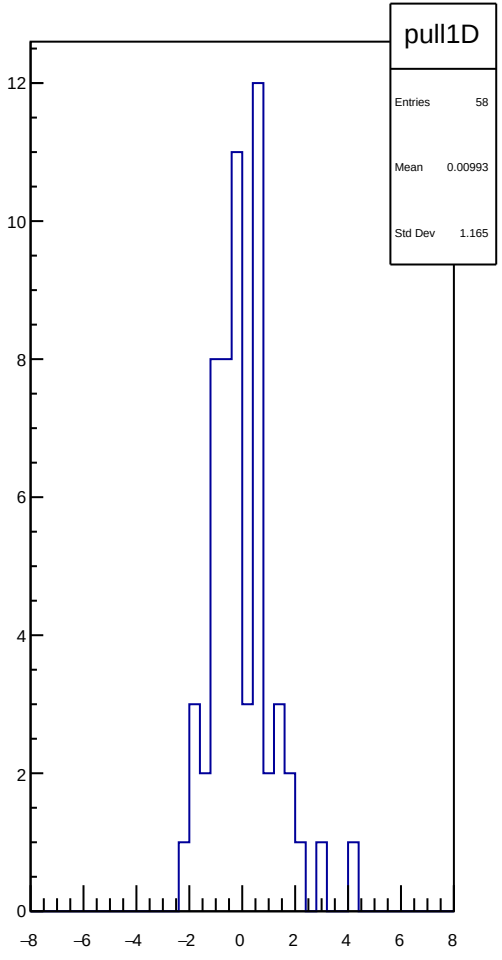

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 83.01 / 57
p0 0.0334 ± 0.1192
pull
Entries 58
Mean 283.1
Std Dev 263.7

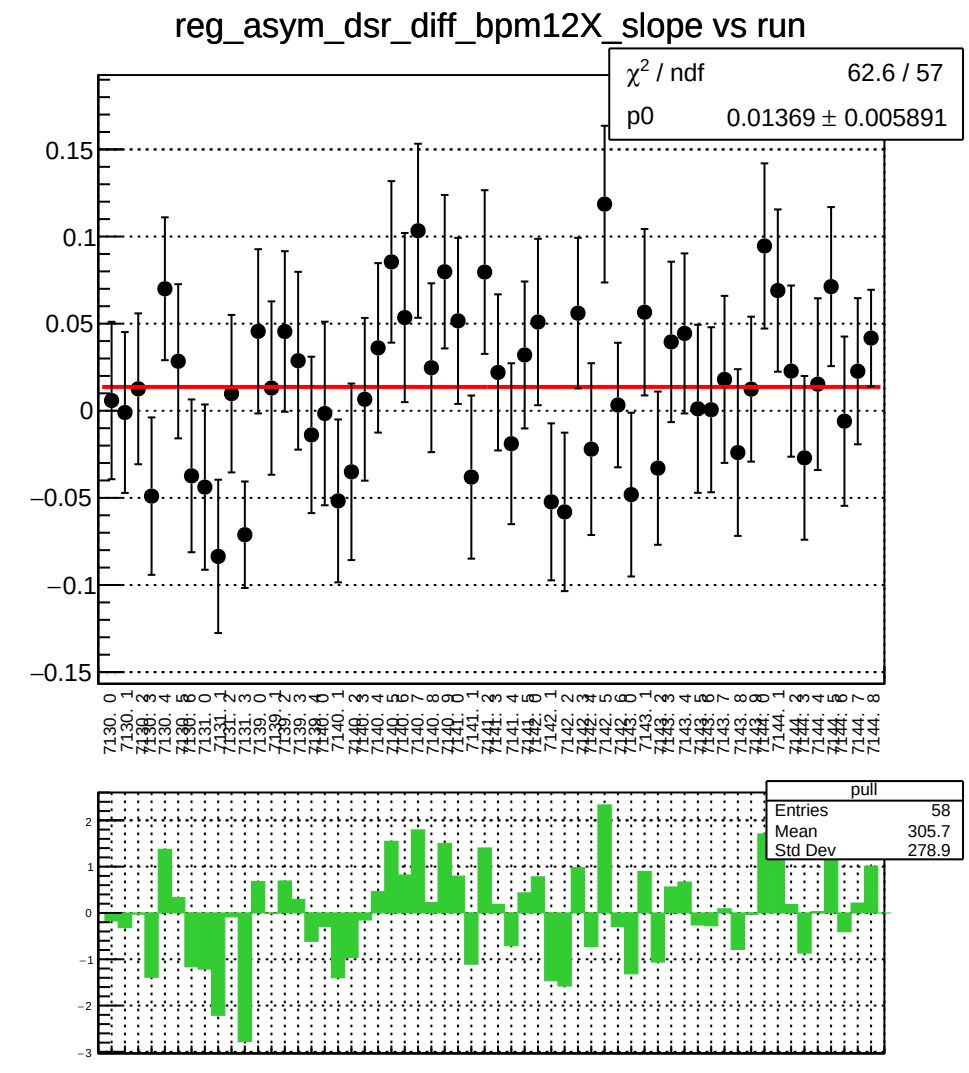

pull1D
Entries 58
Mean −0.009202
Std Dev 1.196

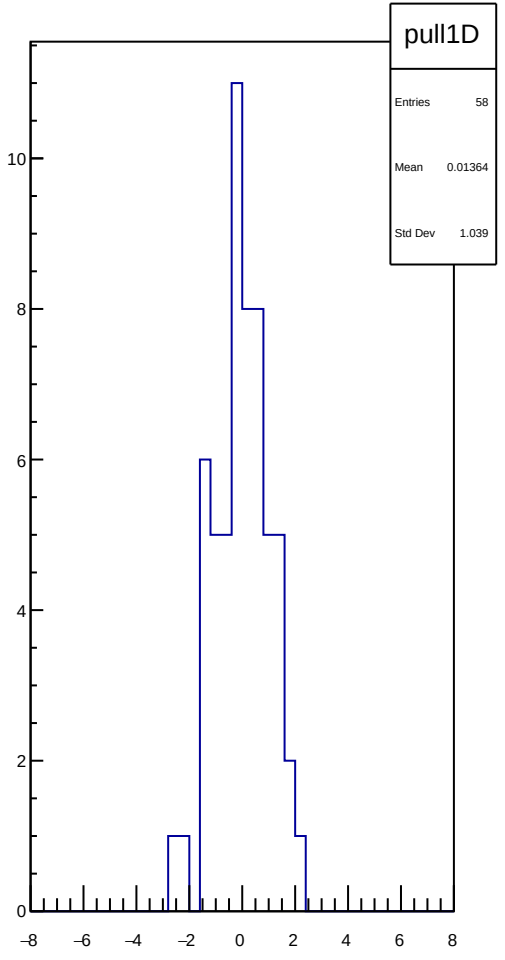

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 58.16 / 57
p0 0.04049 ± 0.1336
pull
Entries 58
Mean −98.73
Std Dev 122.4

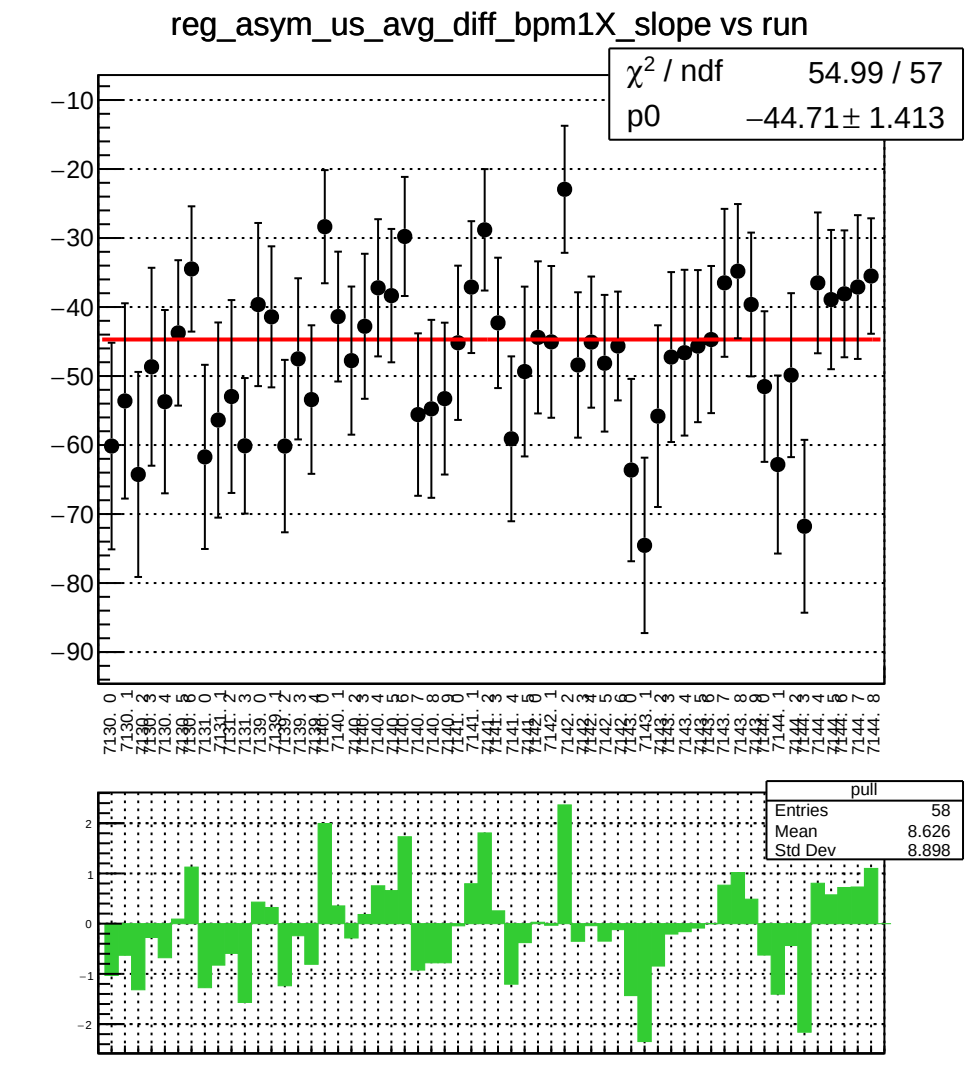

pull1D
Entries 58
Mean 0.0357
Std Dev 1.001

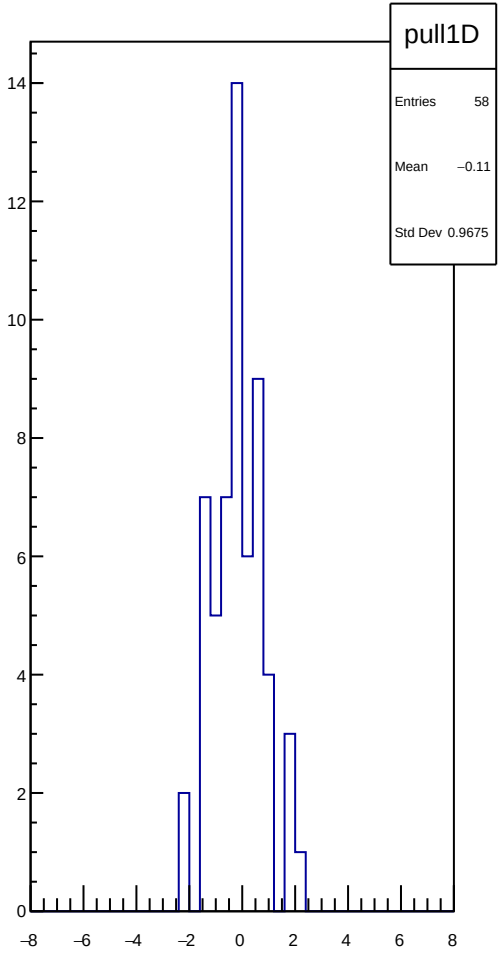

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 78.68 / 57
p0 −0.0579 ± 0.1274
pull
Entries 58
Mean 313.6
Std Dev 290.1

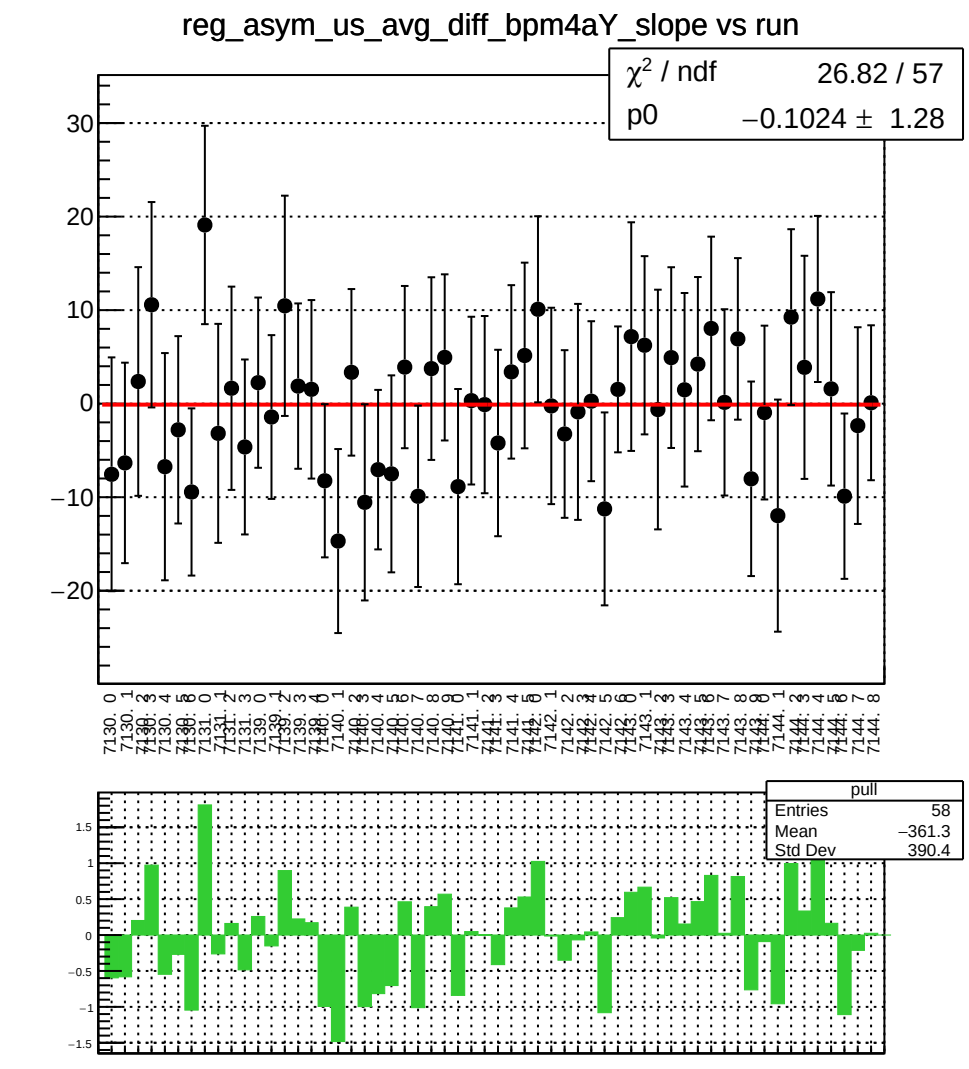

pull1D
Entries 58
Mean 0.00993
Std Dev 1.165

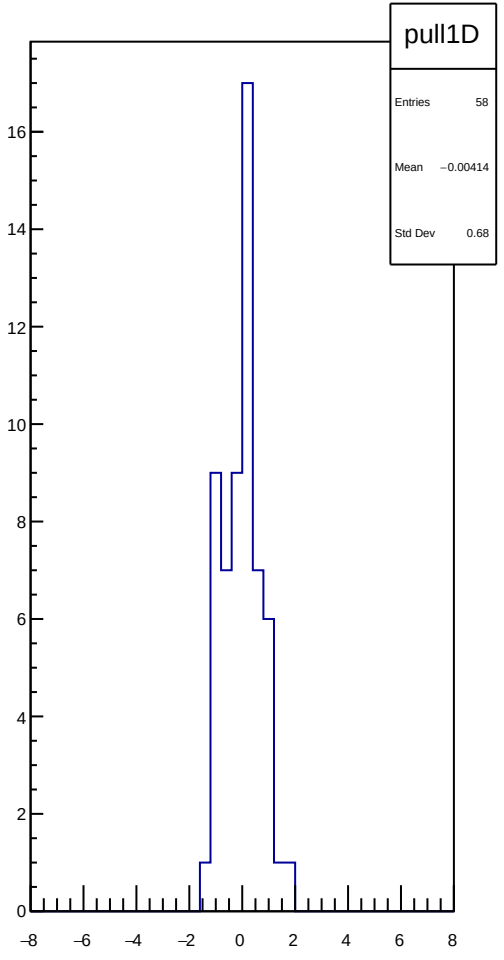

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 62.6 / 57
p0 0.01369 ± 0.005891
pull
Entries 58
Mean 305.7
Std Dev 278.9

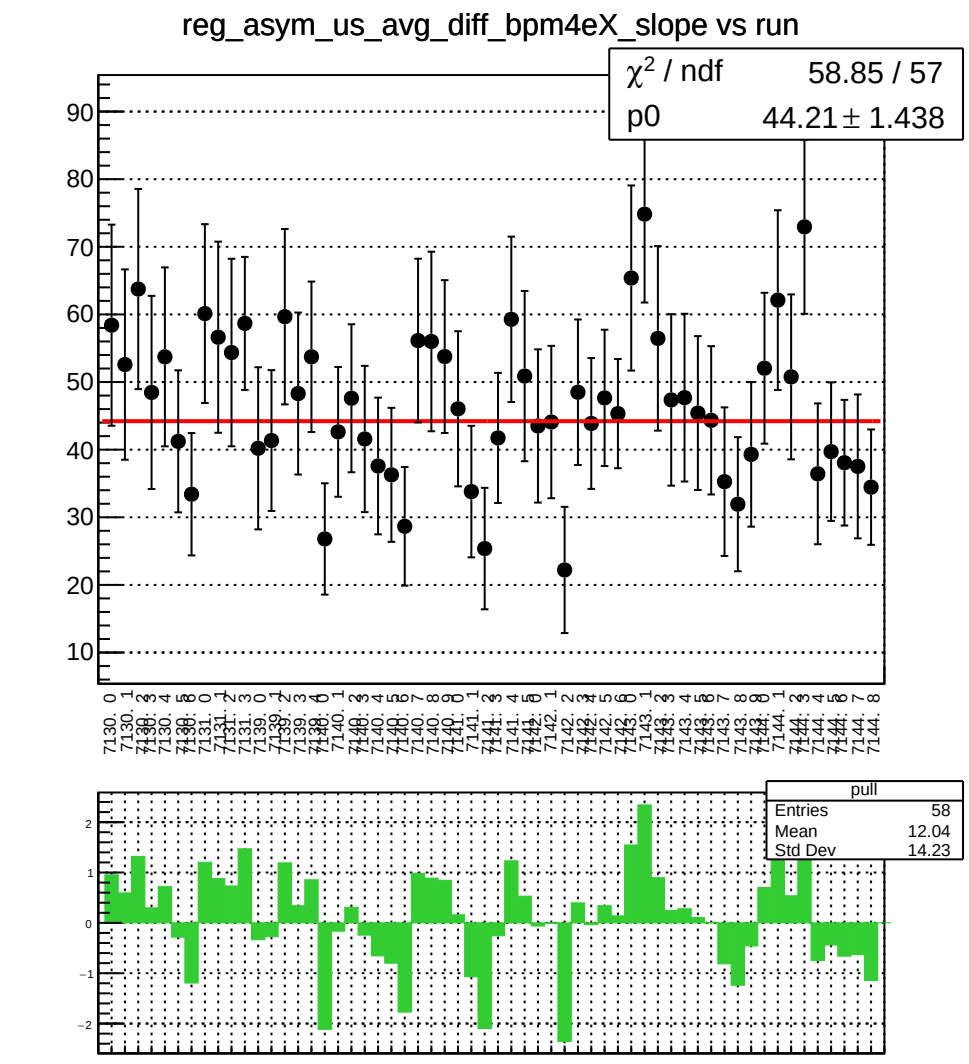

pull1D
Entries 58
Mean 0.01364
Std Dev 1.039

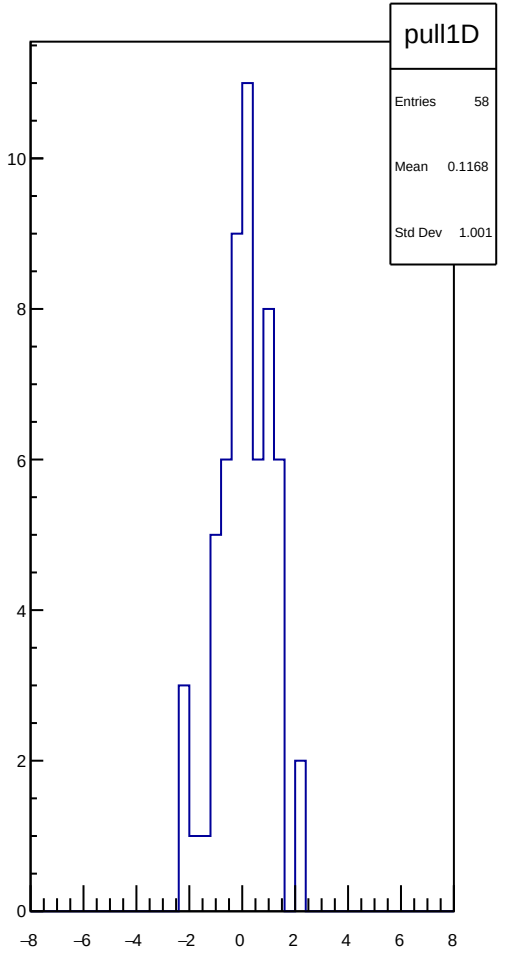

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 54.99 / 57
p0 −44.71 ± 1.413
pull
Entries 58
Mean 8.626
Std Dev 8.898

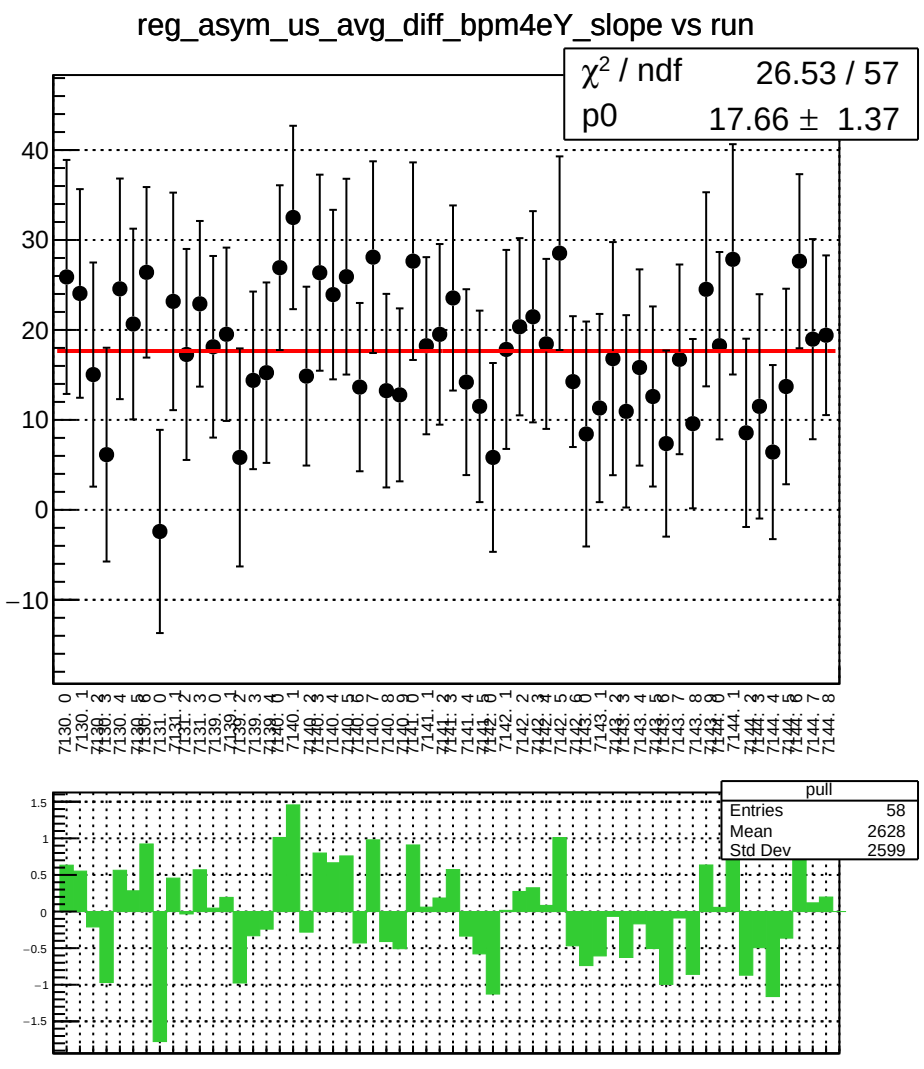

pull1D
Entries 58
Mean −0.11
Std Dev 0.9675

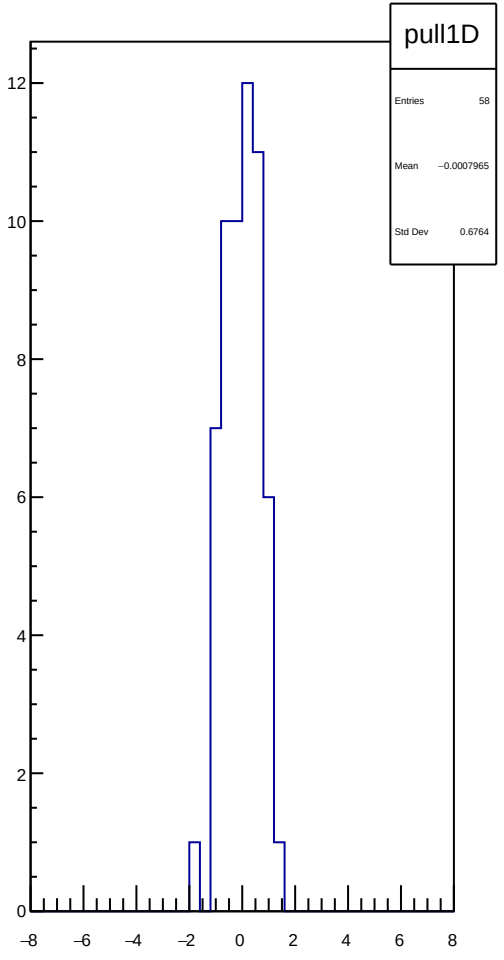

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.82 / 57
p0 −0.1024 ± 1.28
pull
Entries 58
Mean −361.3
Std Dev 390.4

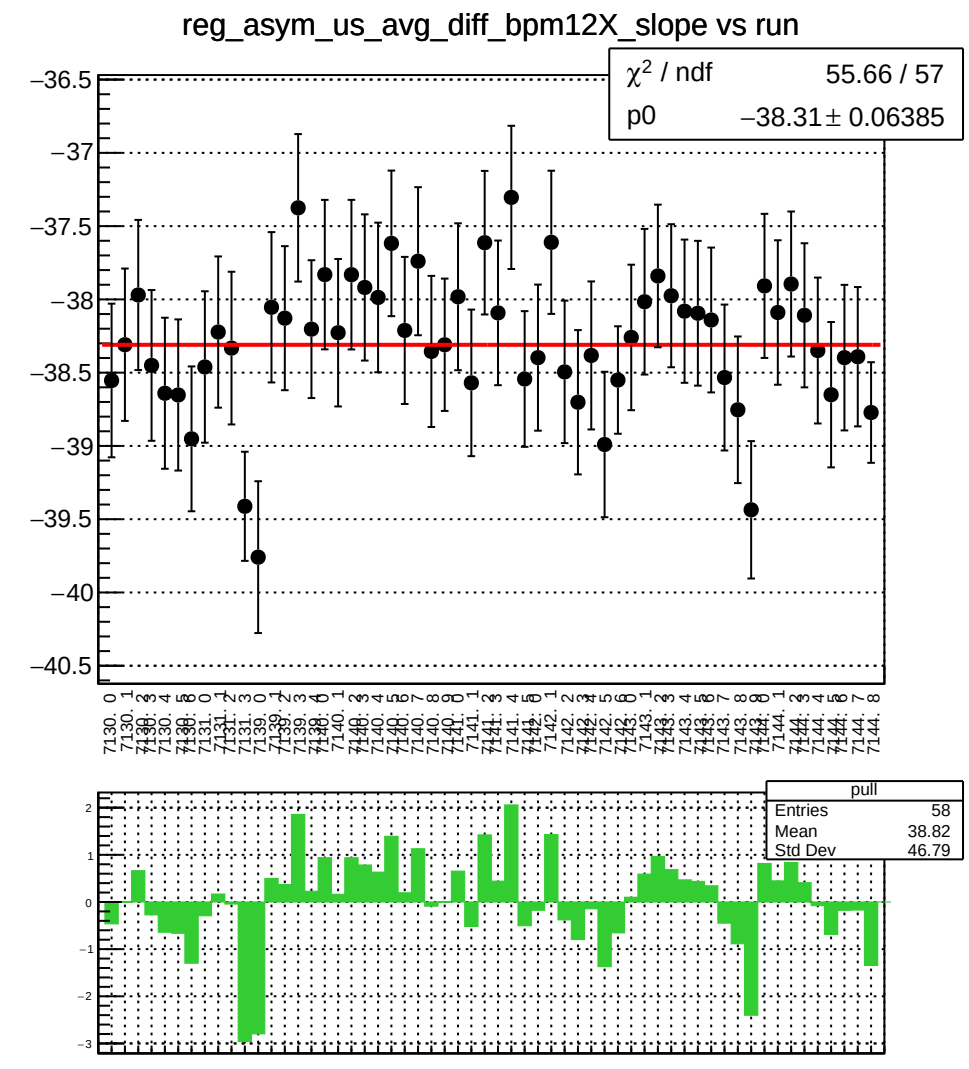

pull1D
Entries 58
Mean −0.00414
Std Dev 0.68

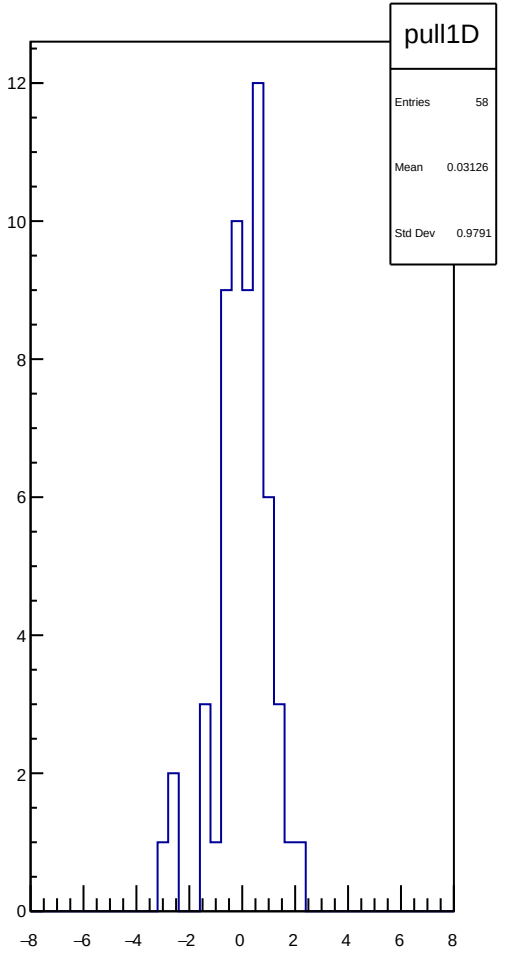

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.85 / 57
p0 44.21 ± 1.438
pull
Entries 58
Mean 12.04
Std Dev 14.23

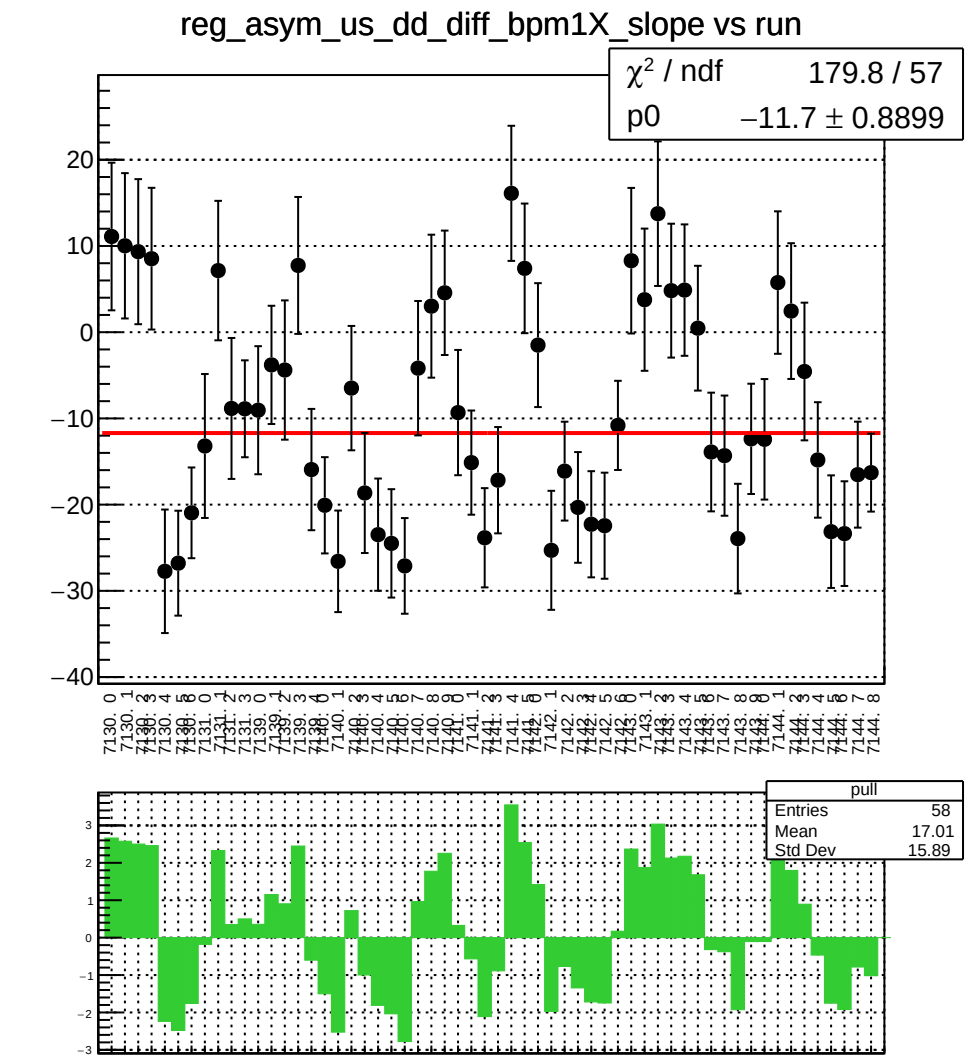

pull1D
Entries 58
Mean 0.1168
Std Dev 1.001

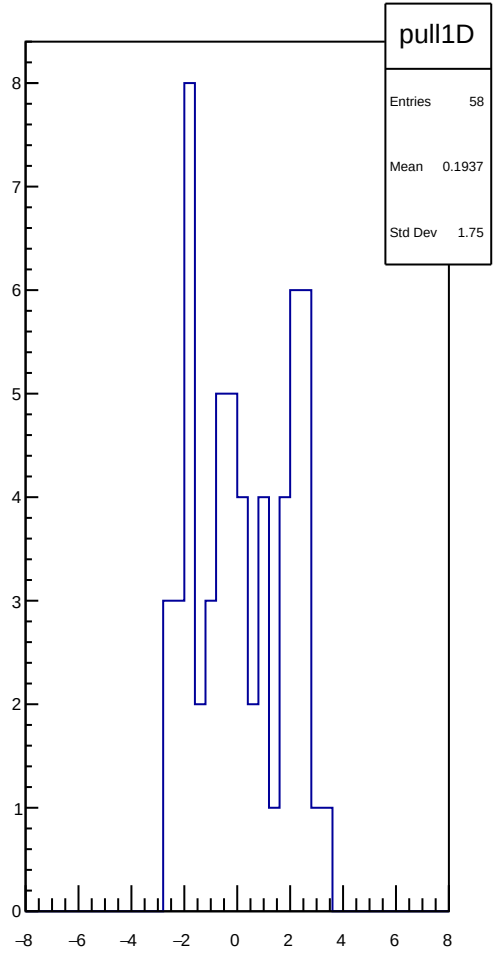

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.53 / 57
p0 17.66 ± 1.37
pull
Entries 58
Mean 2628
Std Dev 2599

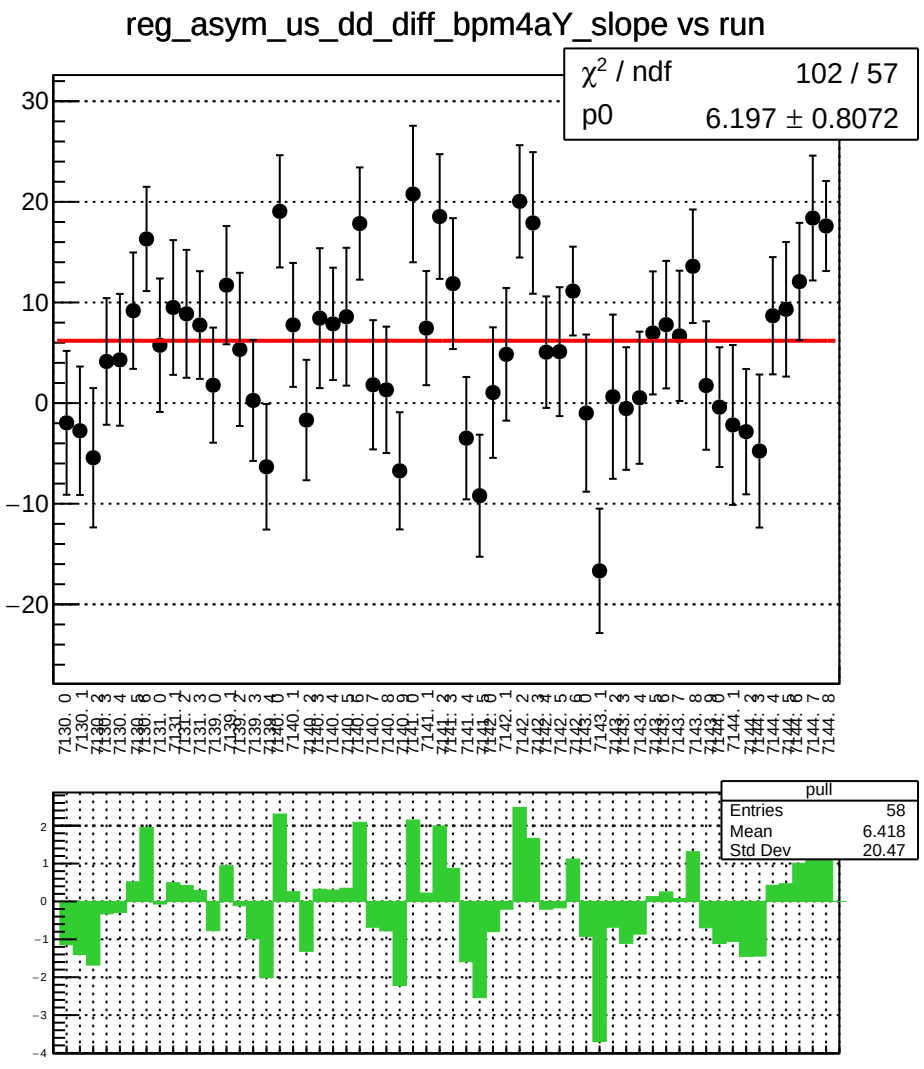

pull1D
Entries 58
Mean −0.0007965
Std Dev 0.6764

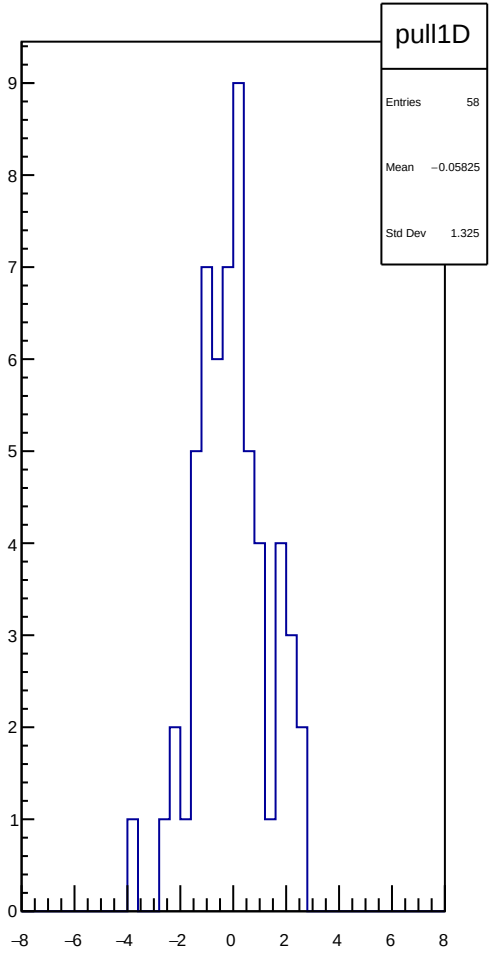

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 55.66 / 57
p0 −38.31 ± 0.06385
pull
Entries 58
Mean 38.82
Std Dev 46.79

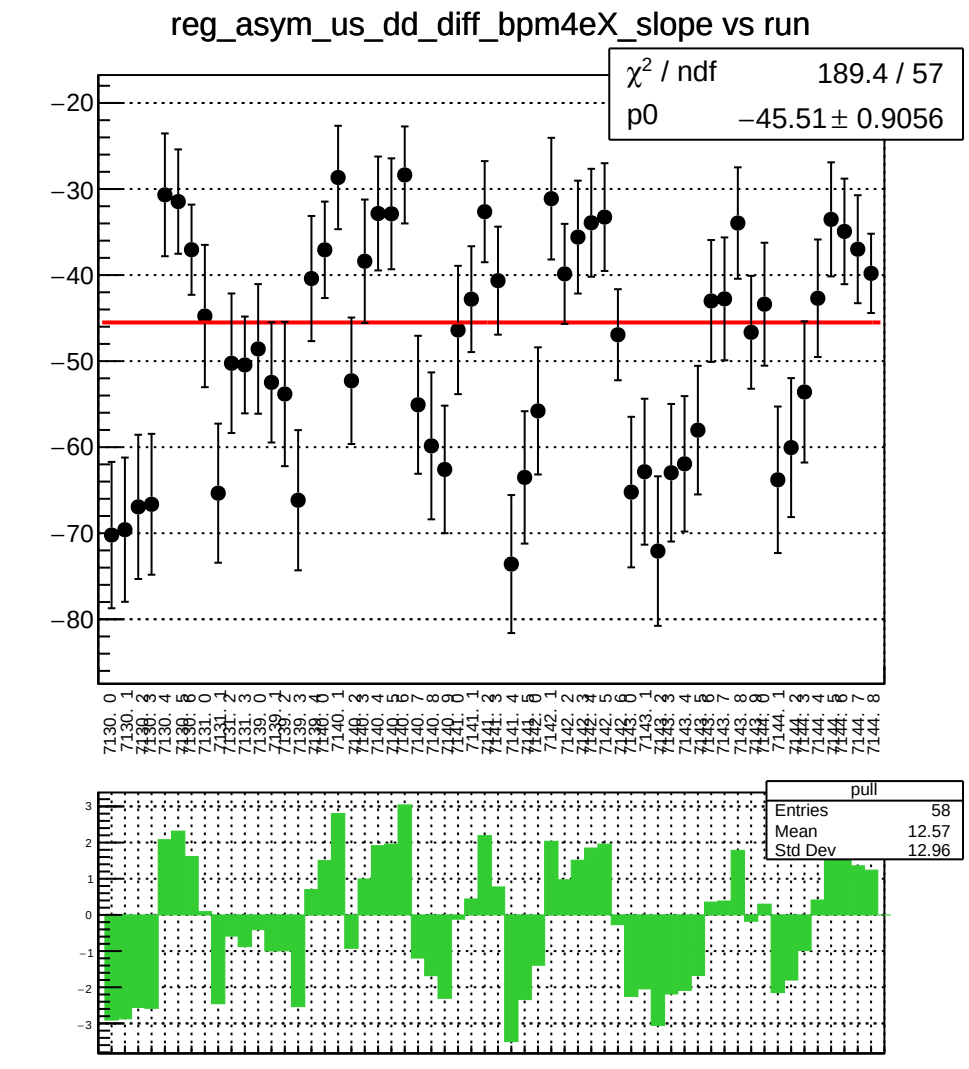

pull1D
Entries 58
Mean 0.03126
Std Dev 0.9791

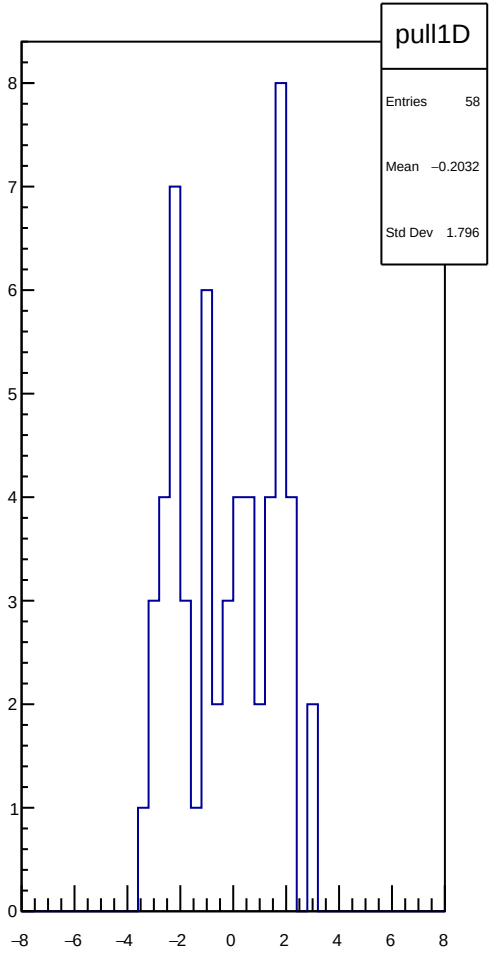

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 179.8 / 57
p0 −11.7 ± 0.8899
pull
Entries 58
Mean 17.01
Std Dev 15.89

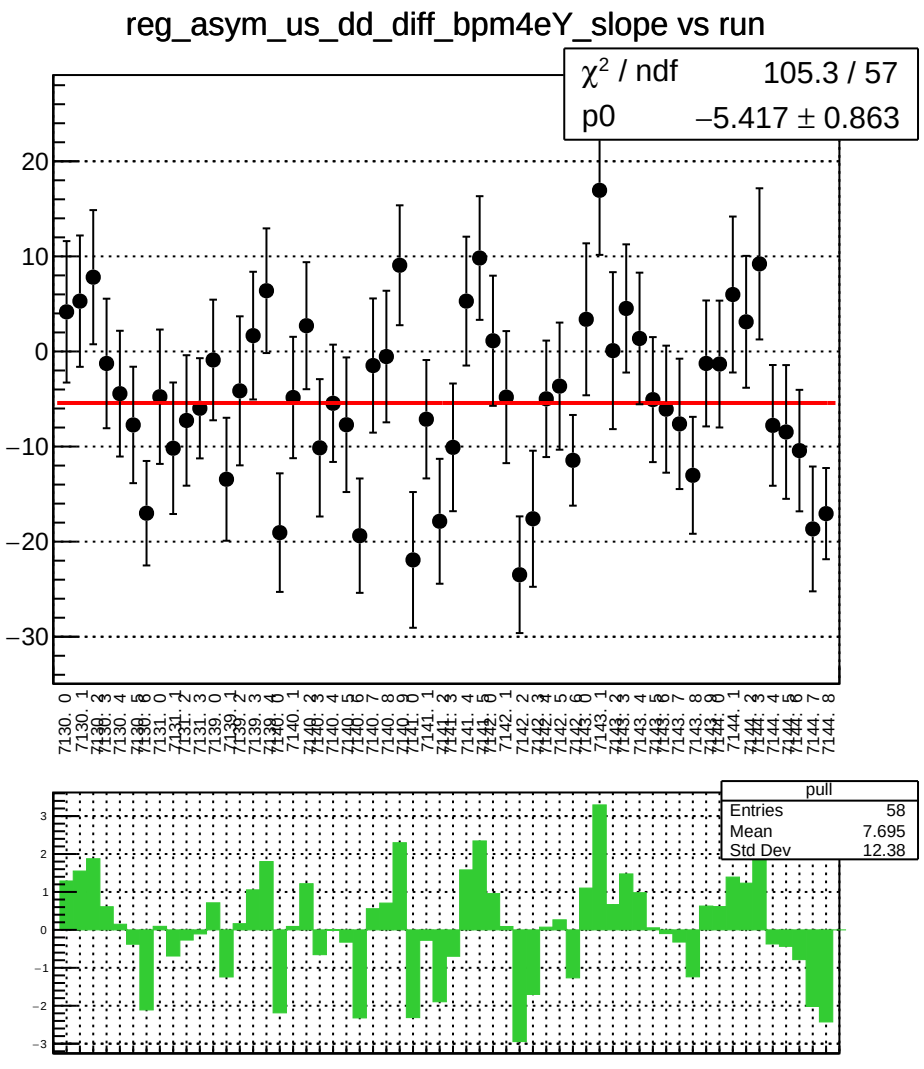

pull1D
Entries 58
Mean 0.1937
Std Dev 1.75

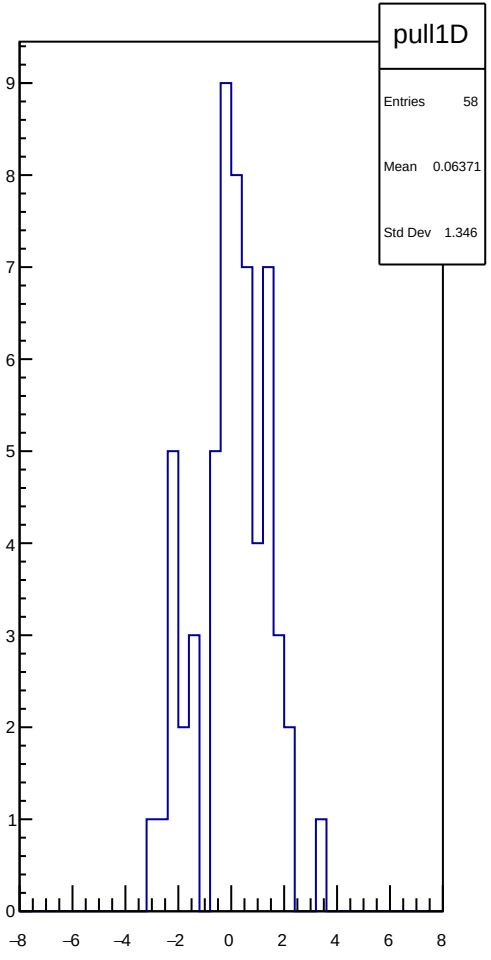

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 102 / 57
p0 6.197 ± 0.8072
pull
Entries 58
Mean 6.418
Std Dev 20.47

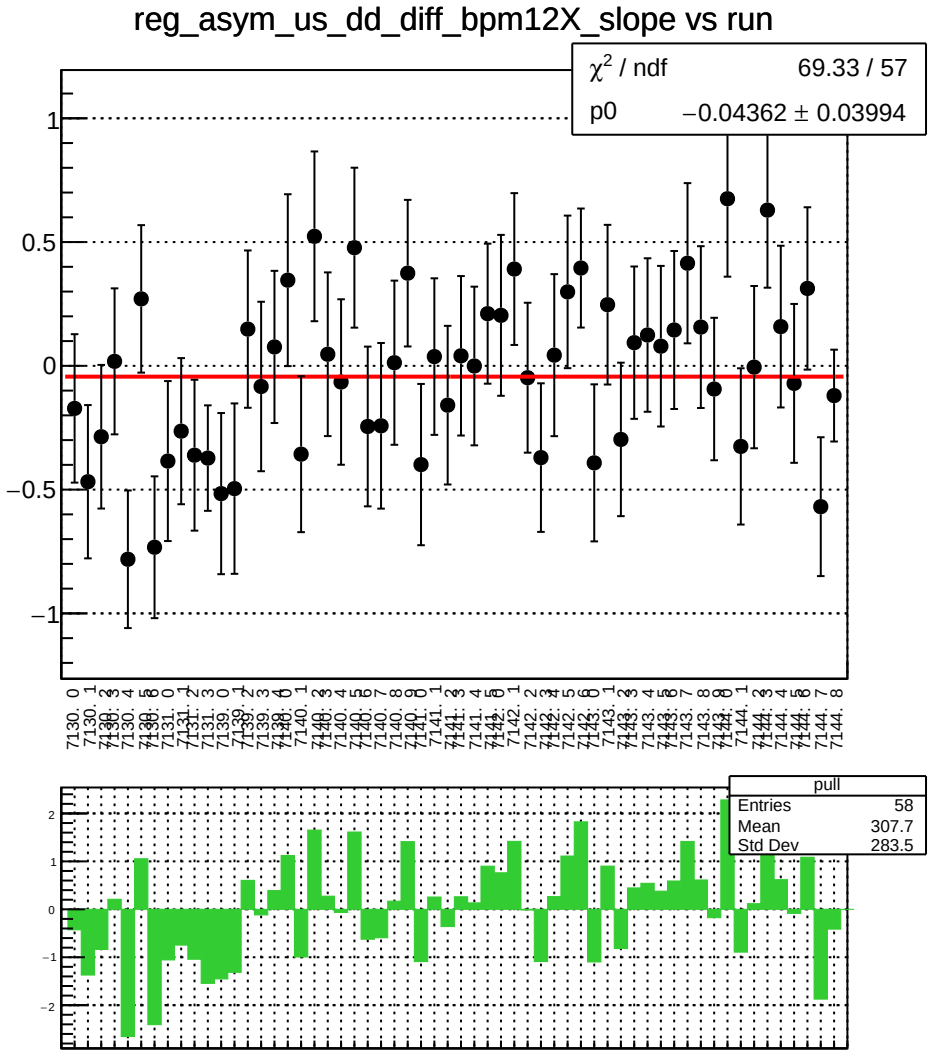

pull1D
Entries 58
Mean −0.05825
Std Dev 1.325

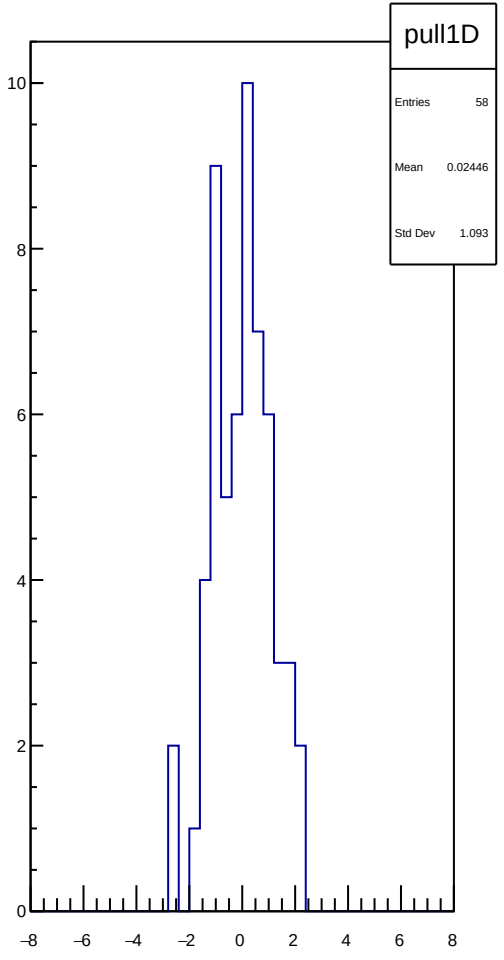

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 189.4 / 57
p0 −45.51 ± 0.9056
pull
Entries 58
Mean 12.57
Std Dev 12.96

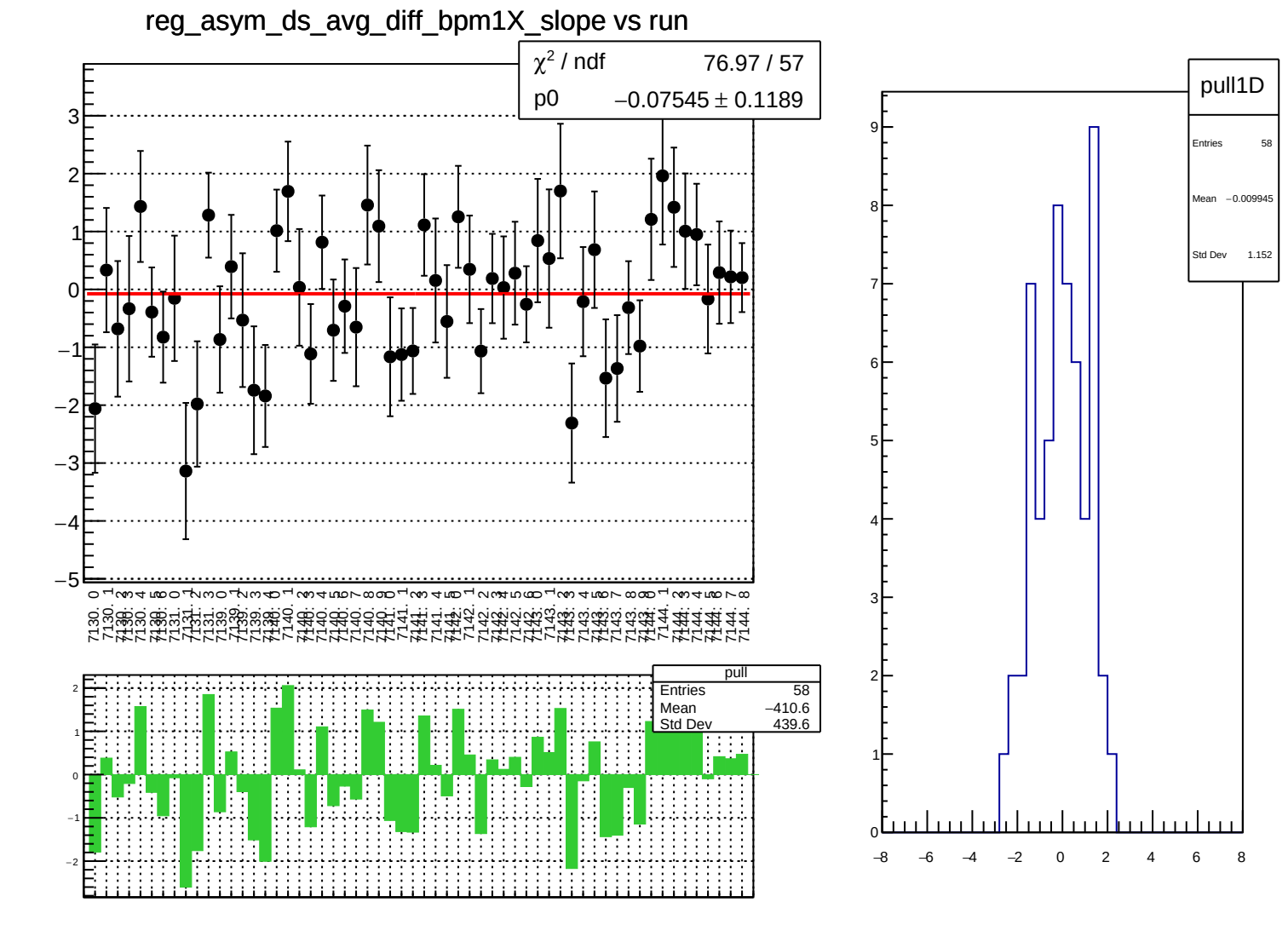

pull1D
Entries 58
Mean −0.2032
Std Dev 1.796

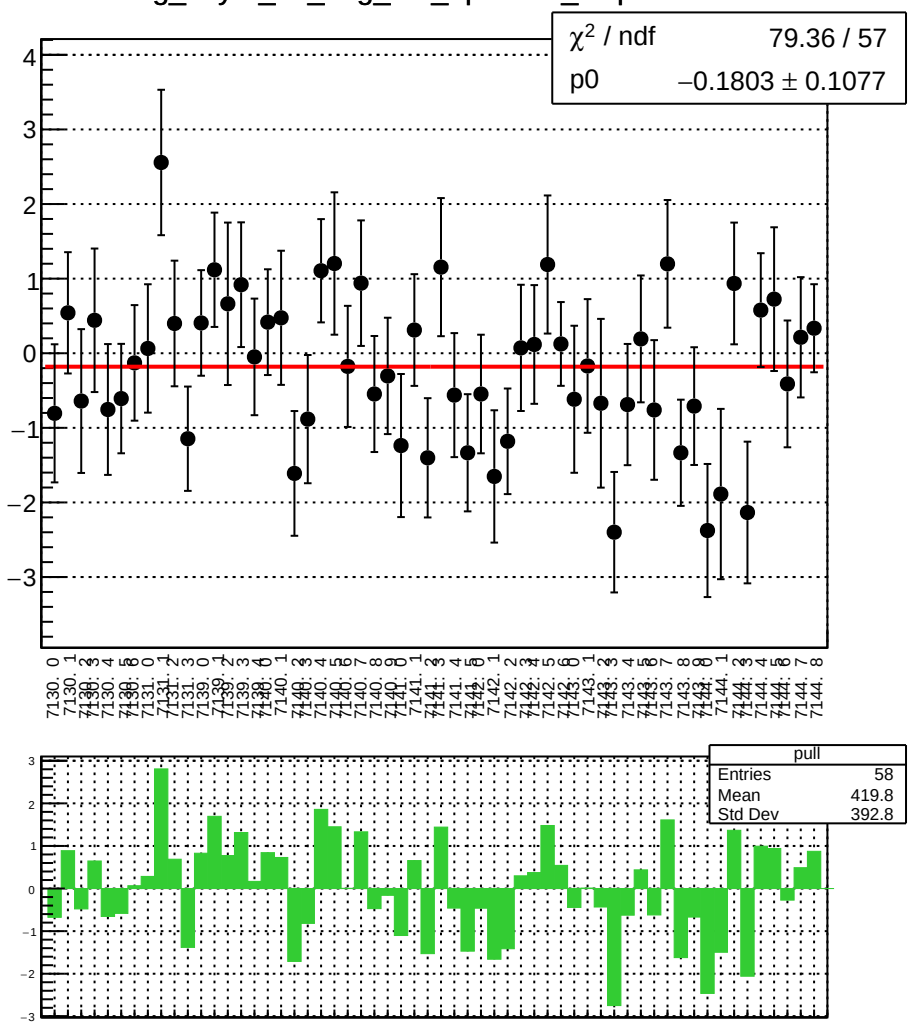

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 105.3 / 57
p0 −5.417 ± 0.863
pull
Entries 58
Mean 7.695
Std Dev 12.38

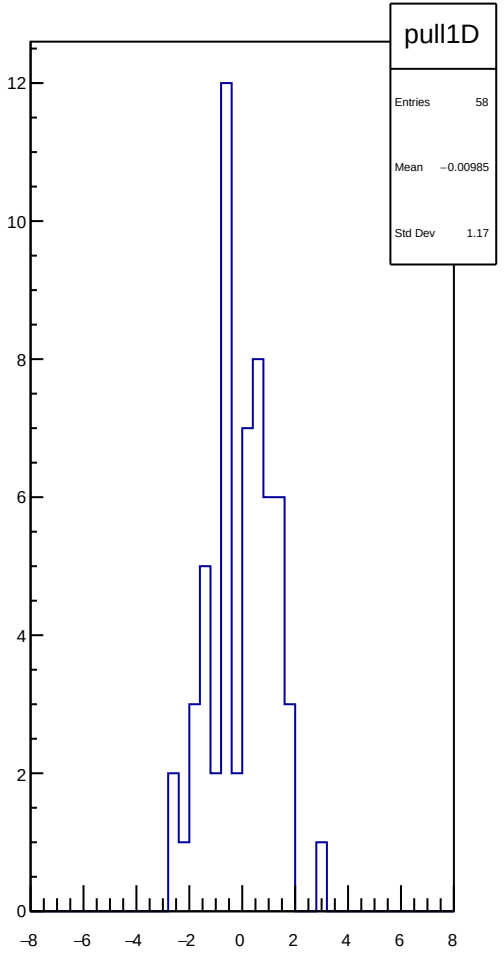

pull1D
Entries 58
Mean 0.06371
Std Dev 1.346

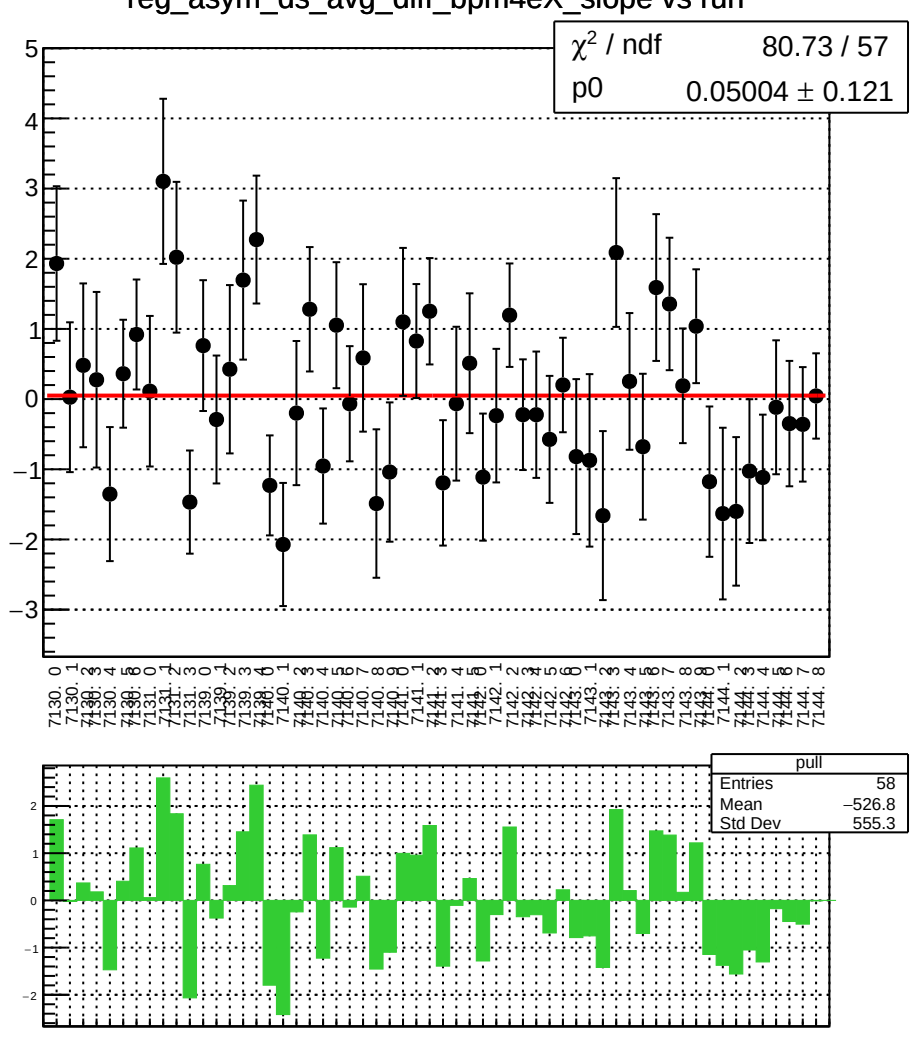

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 69.33 / 57
p0 −0.04362 ± 0.03994
pull
Entries 58
Mean 307.7
Std Dev 283.5

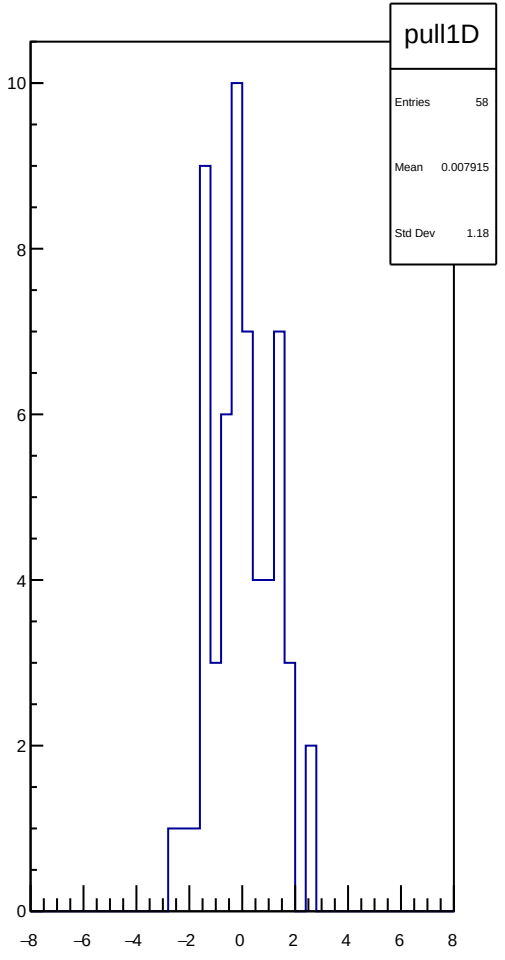

pull1D
Entries 58
Mean 0.02446
Std Dev 1.093

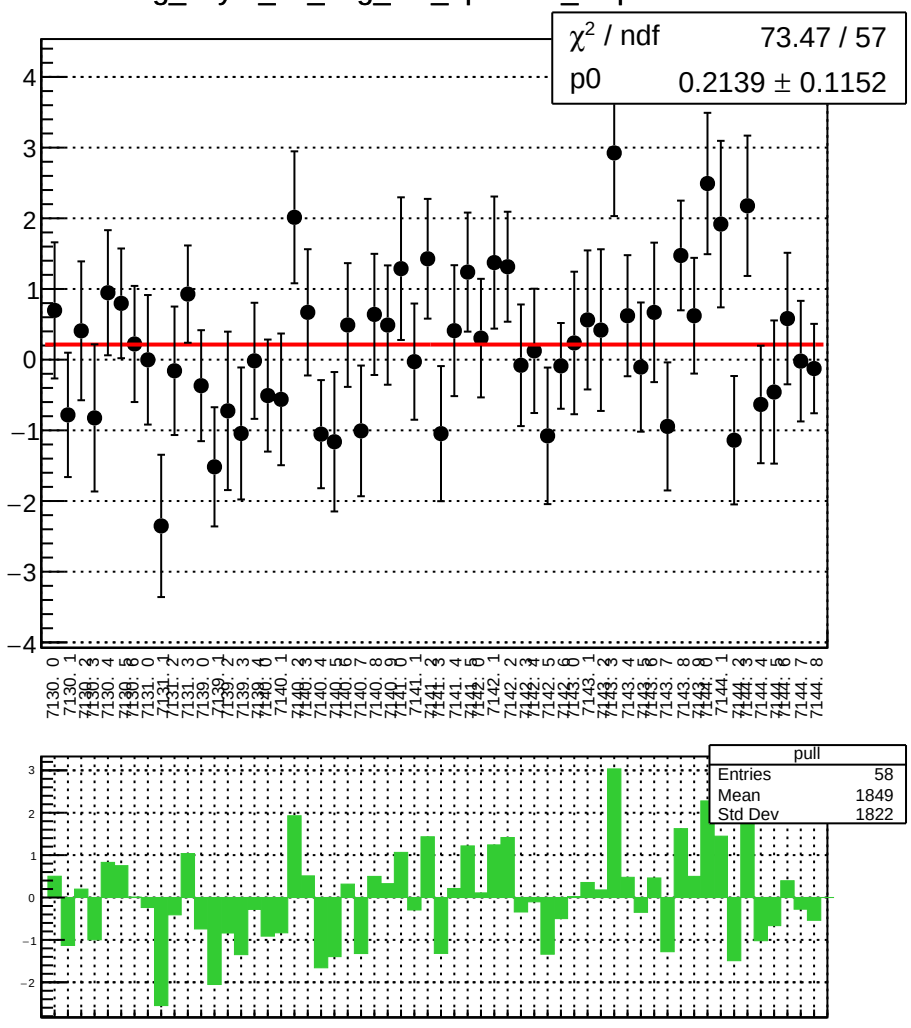

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 76.97 / 57
p0 −0.07545 ± 0.1189
pull
Entries 58
Mean −410.6
Std Dev 439.6
pull1D
Entries 58
Mean −0.009945
Std Dev 1.152

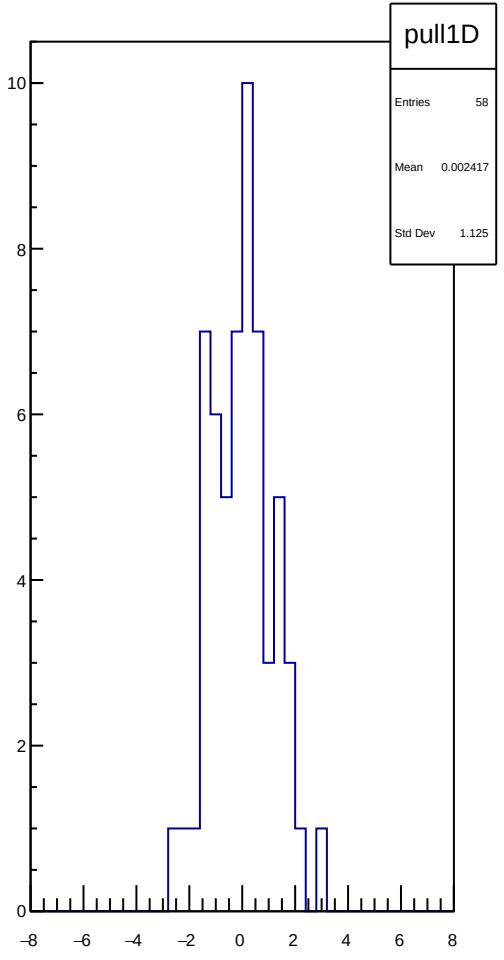

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 79.36 / 57
p0 −0.1803 ± 0.1077
pull
Entries 58
Mean 419.8
Std Dev 392.8

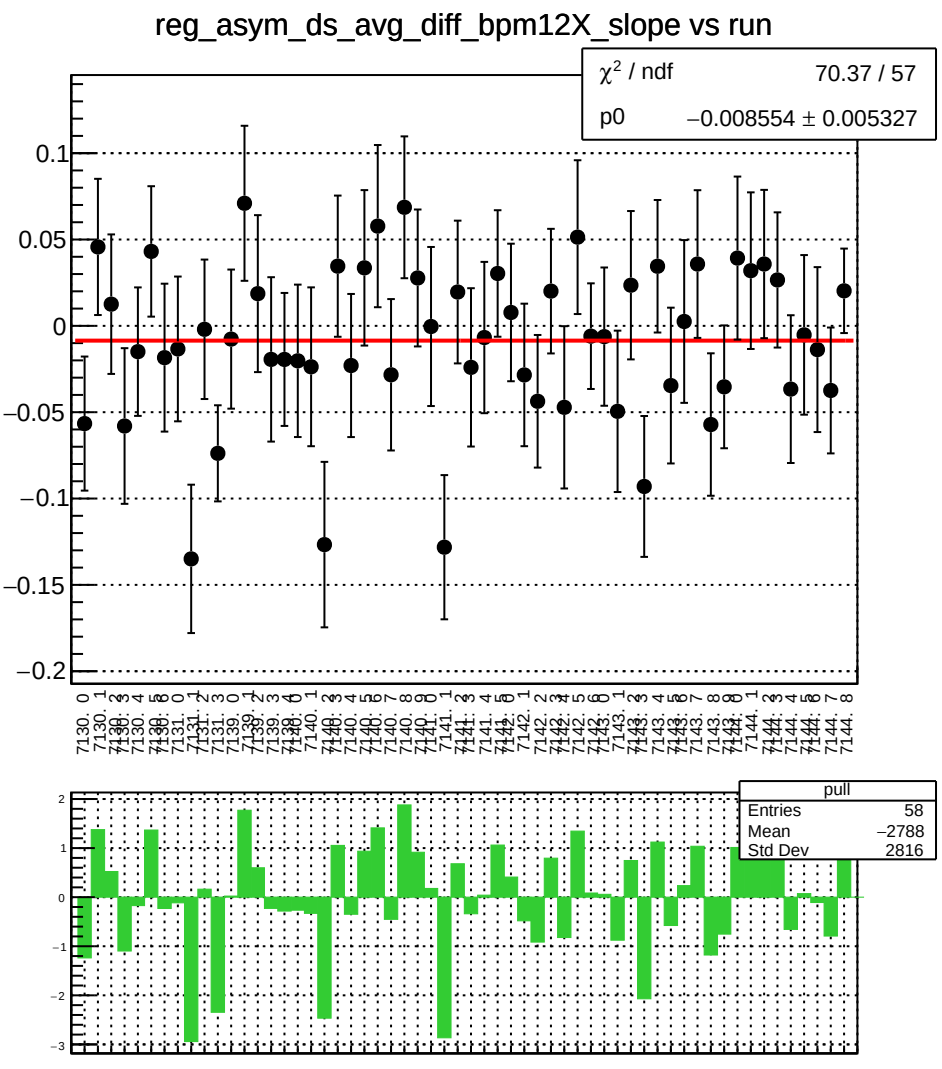

pull1D
Entries 58
Mean −0.00985
Std Dev 1.17

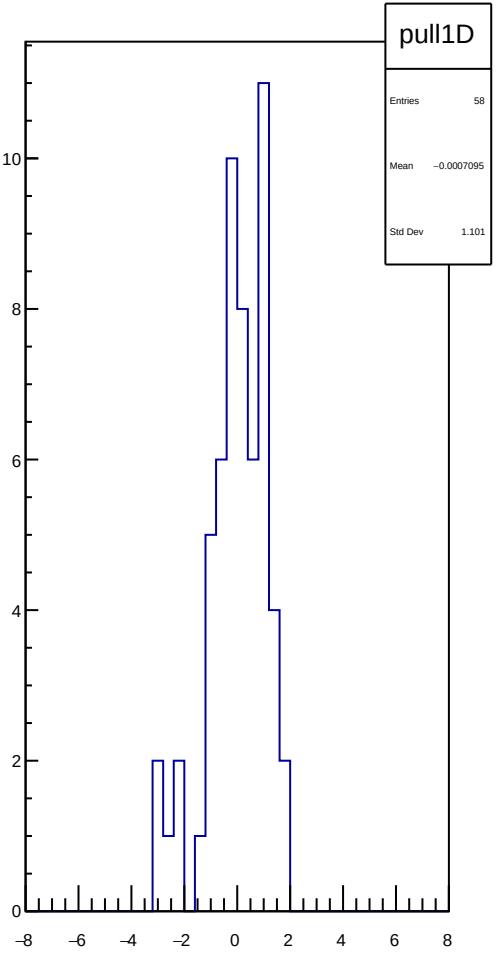

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.73 / 57
p0 0.05004 ± 0.121
pull
Entries 58
Mean −526.8
Std Dev 555.3

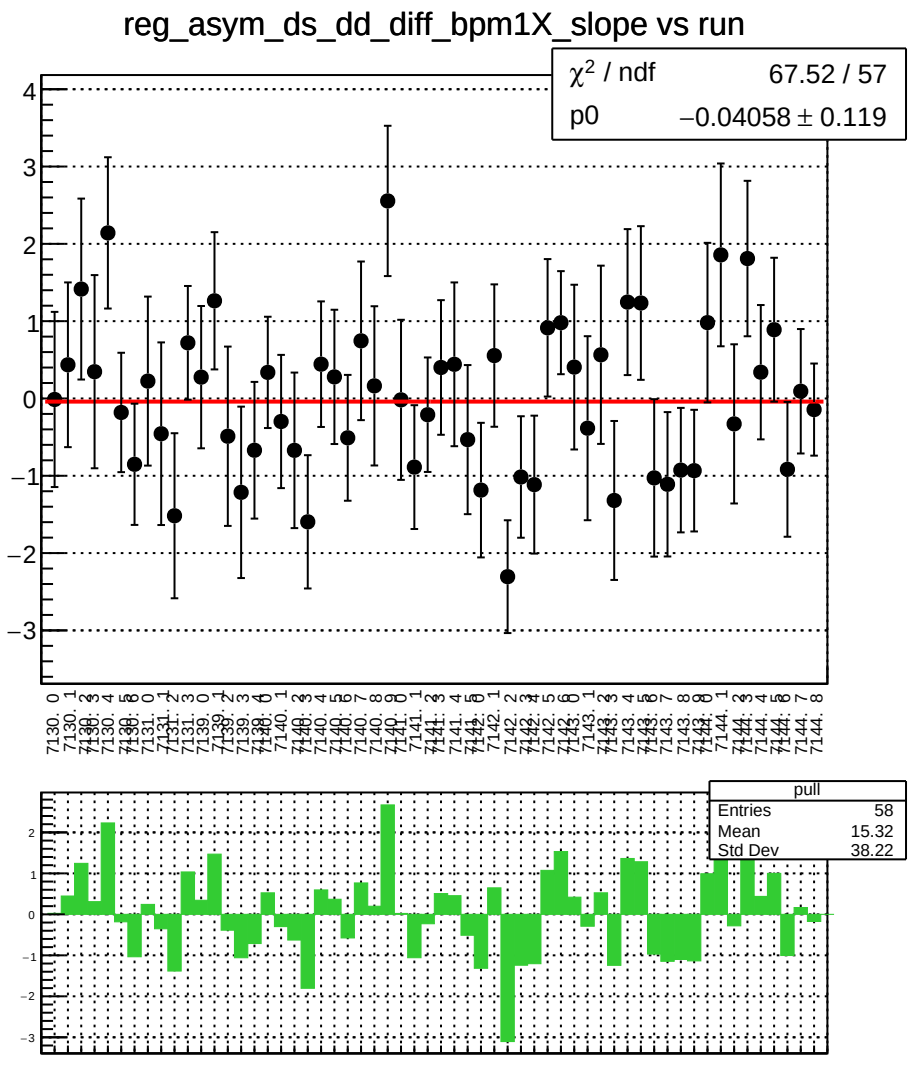

pull1D
Entries 58
Mean 0.007915
Std Dev 1.18

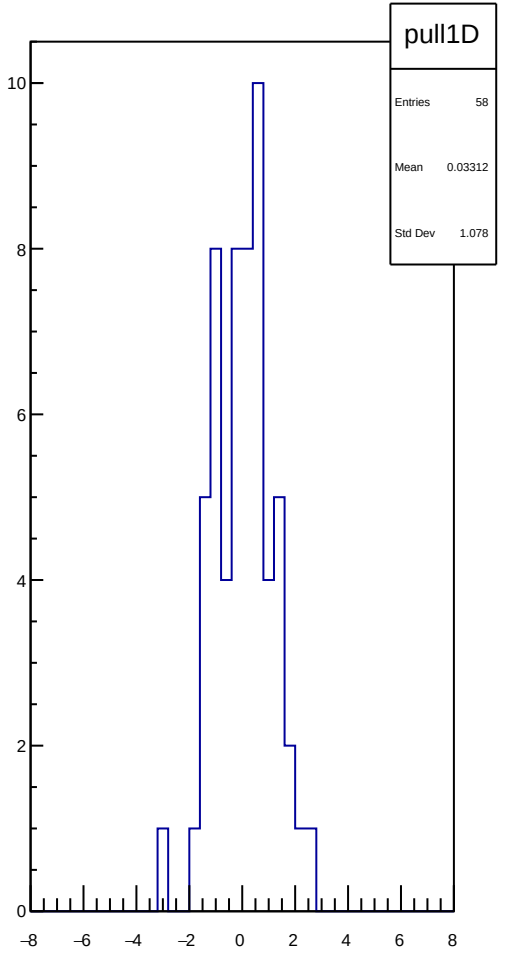

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 73.47 / 57
p0 0.2139 ± 0.1152
pull
Entries 58
Mean 1849
Std Dev 1822

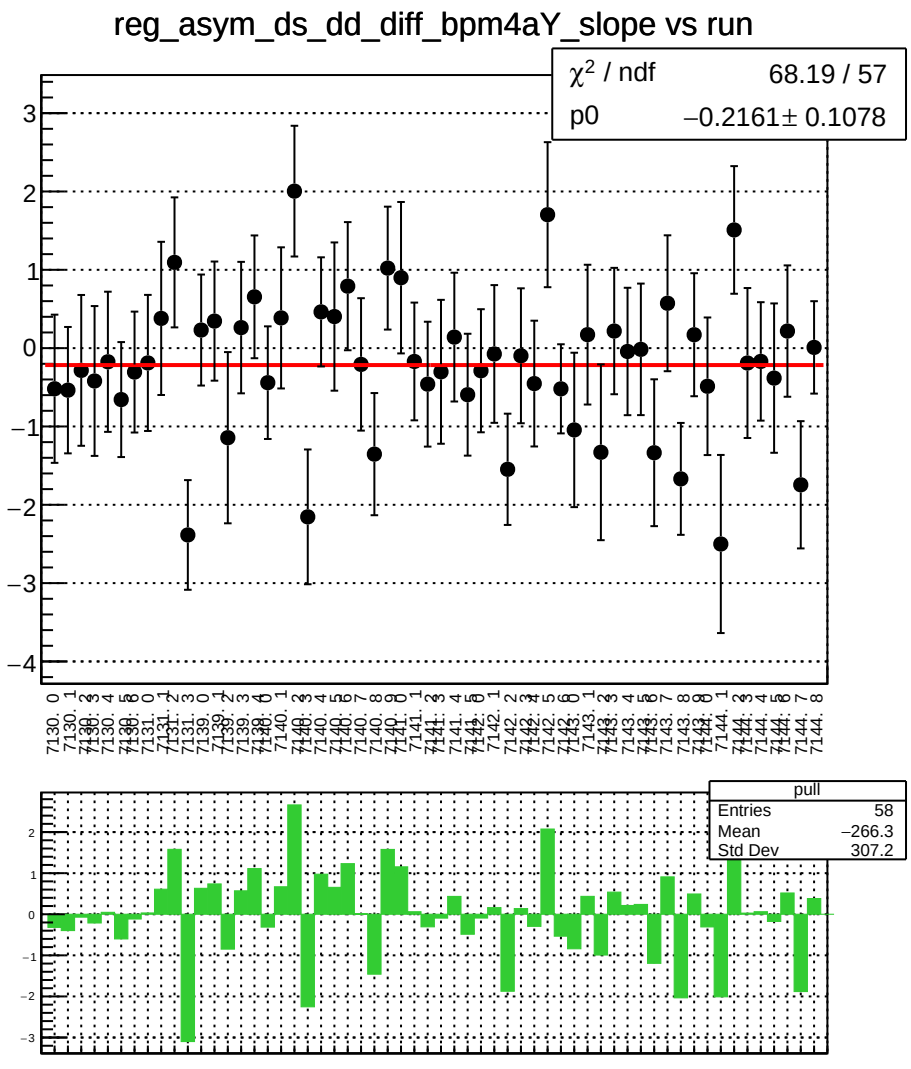

pull1D
Entries 58
Mean 0.002417
Std Dev 1.125

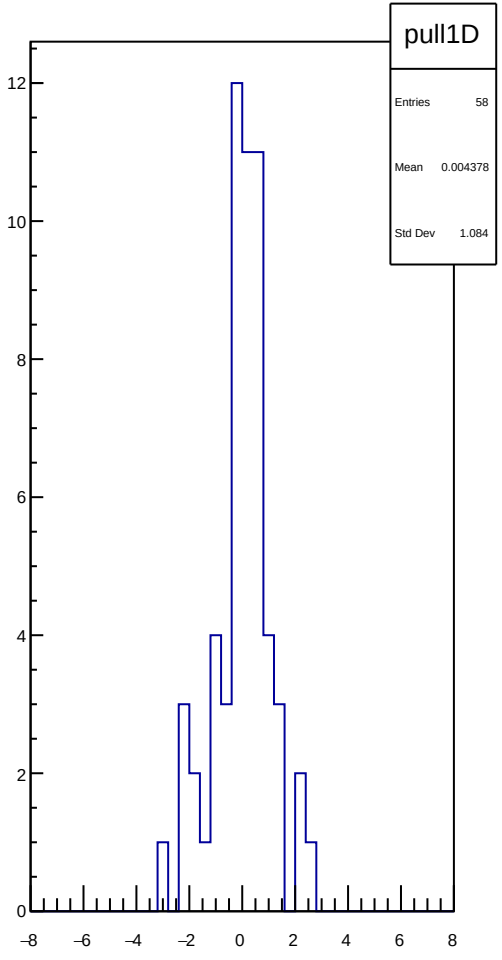

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 70.37 / 57
p0 −0.008554 ± 0.005327
pull
Entries 58
Mean −2788
Std Dev 2816

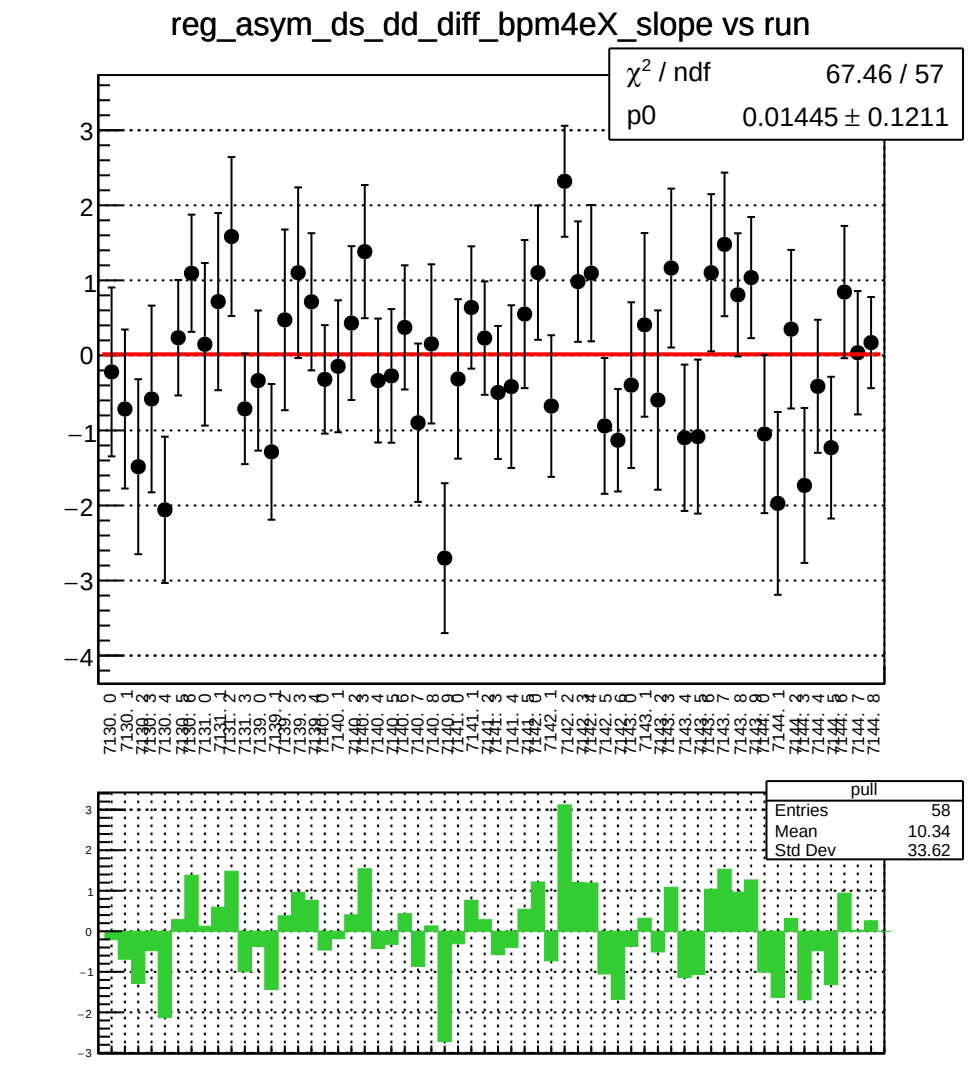

pull1D
Entries 58
Mean −0.0007095
Std Dev 1.101

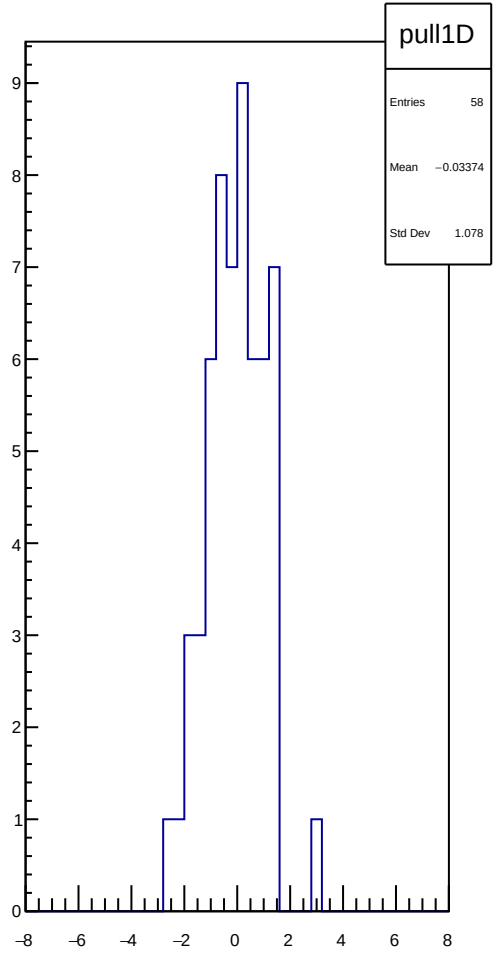

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 67.52 / 57
p0 −0.04058 ± 0.119
pull
Entries 58
Mean 15.32
Std Dev 38.22

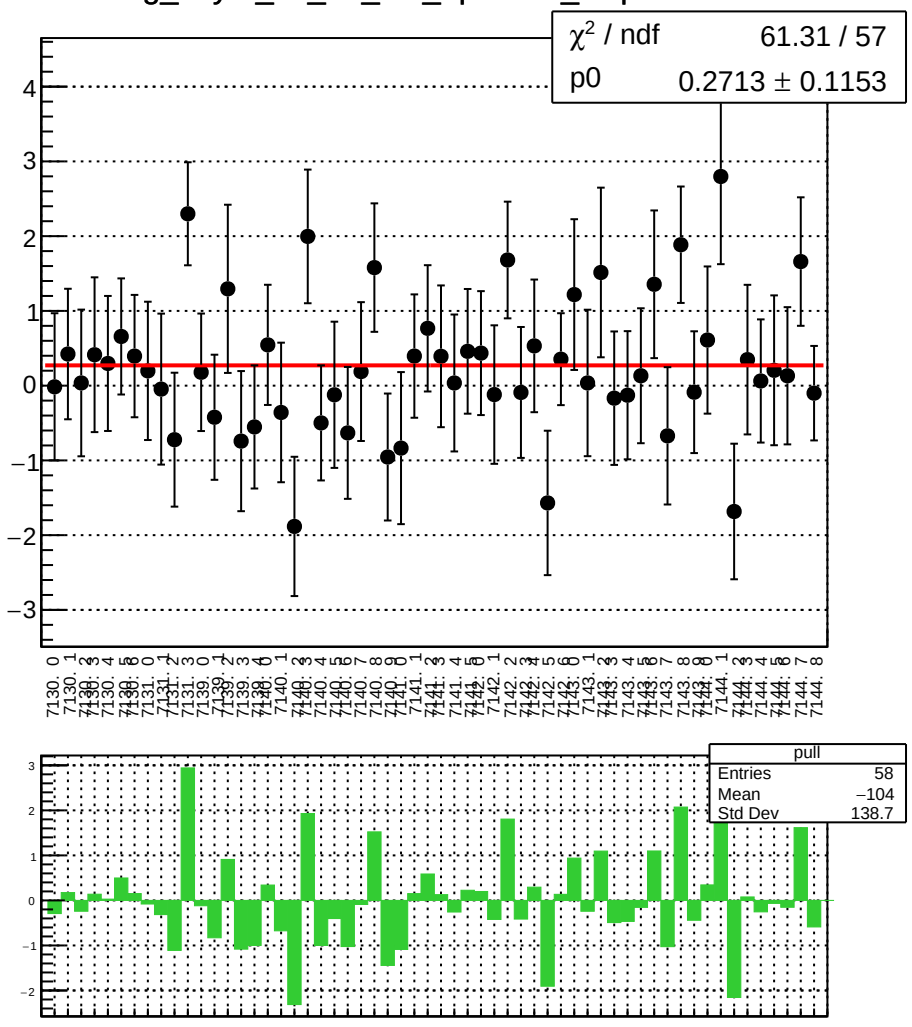

pull1D
Entries 58
Mean 0.03312
Std Dev 1.078

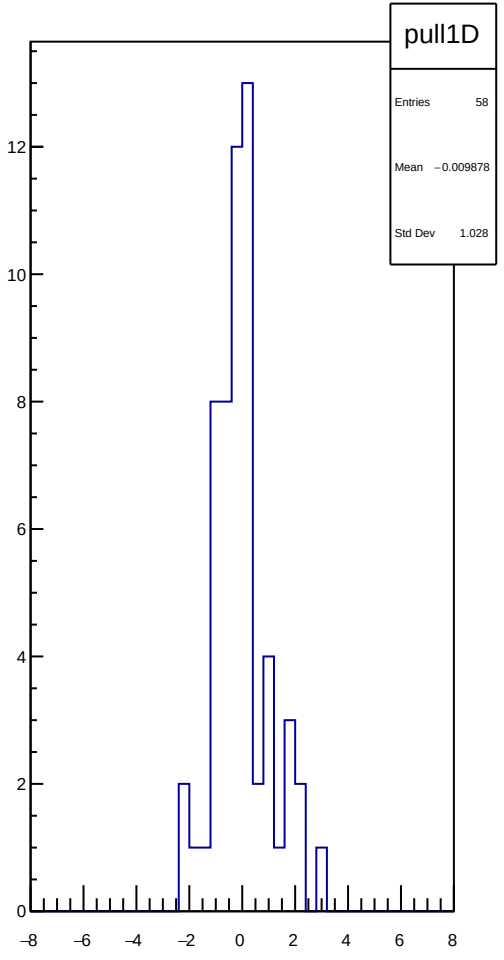

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 68.19 / 57
p0 −0.2161± 0.1078
pull
Entries 58
Mean −266.3
Std Dev 307.2

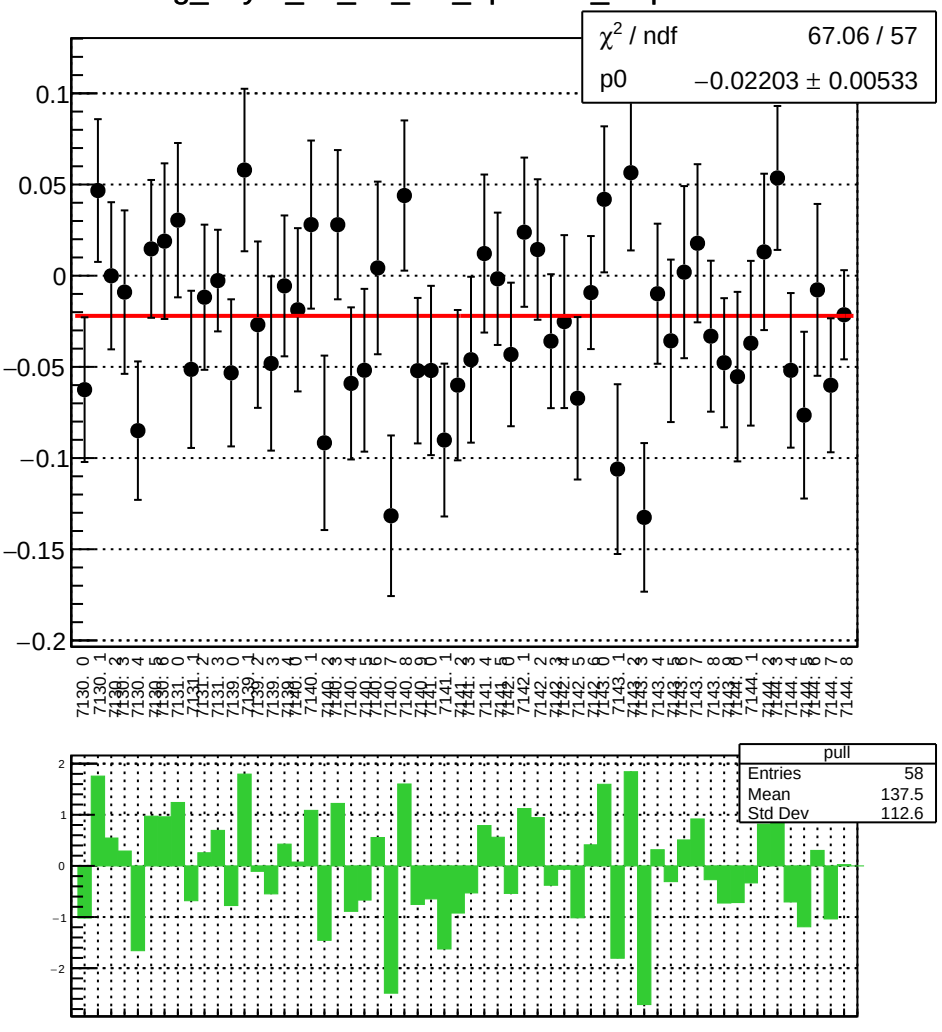

pull1D
Entries 58
Mean 0.004378
Std Dev 1.084

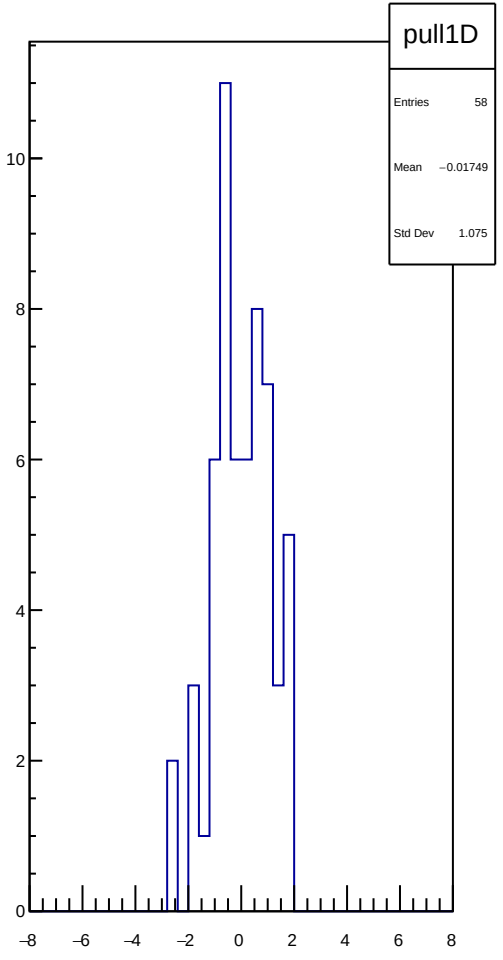

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 67.46 / 57
p0 0.01445 ± 0.1211
pull
Entries 58
Mean 10.34
Std Dev 33.62

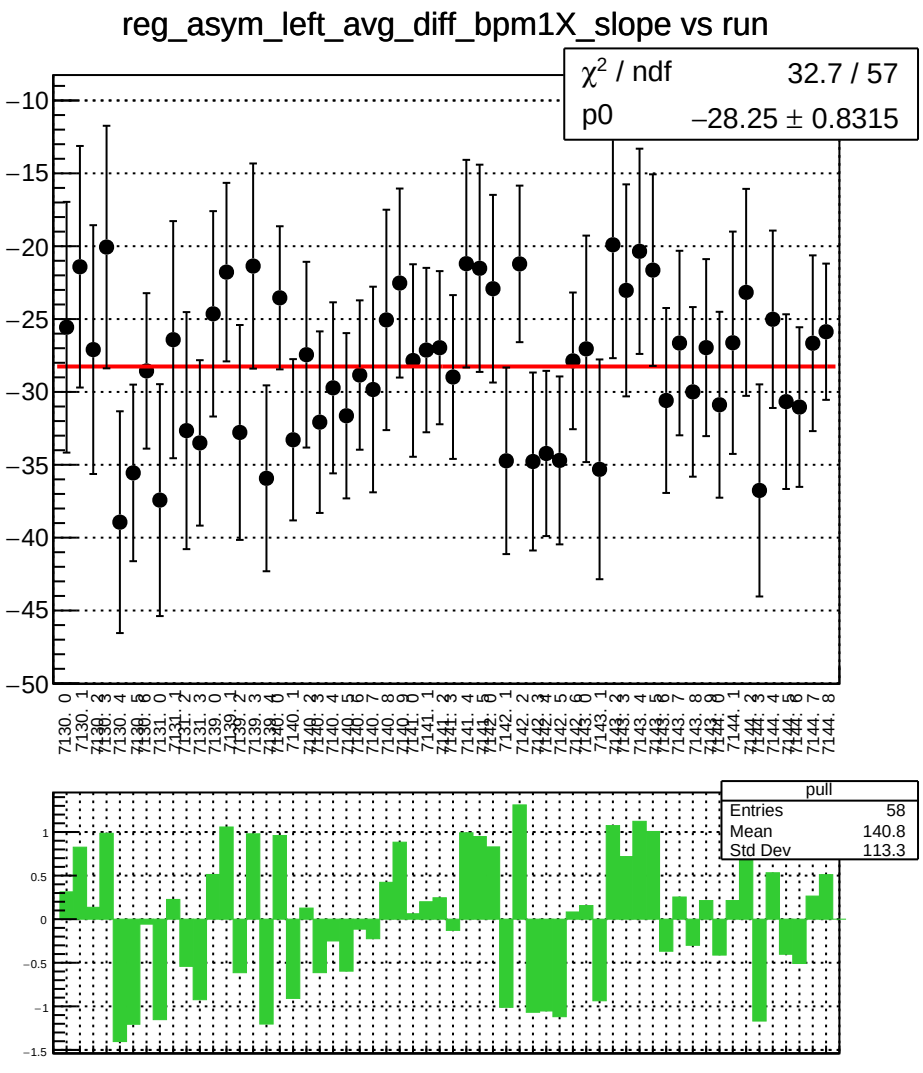

pull1D
Entries 58
Mean −0.03374
Std Dev 1.078

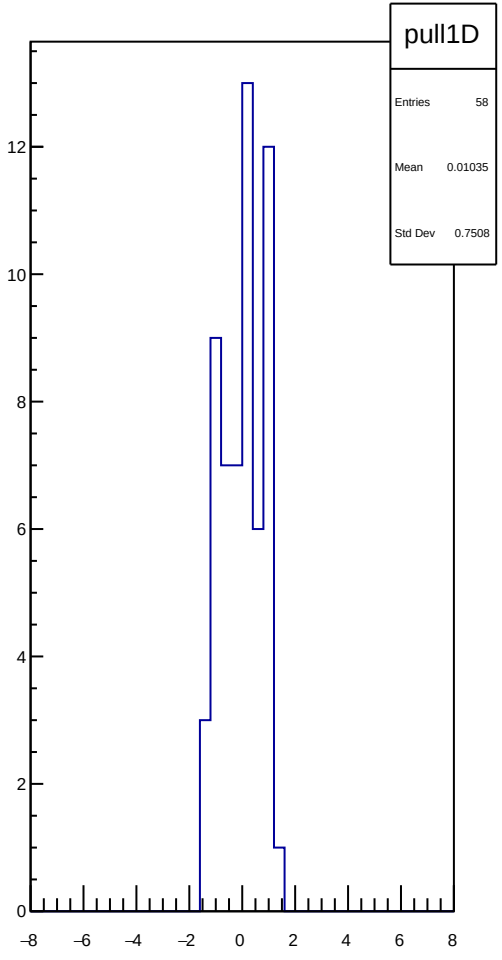

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 61.31 / 57
p0 0.2713 ± 0.1153
pull
Entries 58
Mean −104
Std Dev 138.7

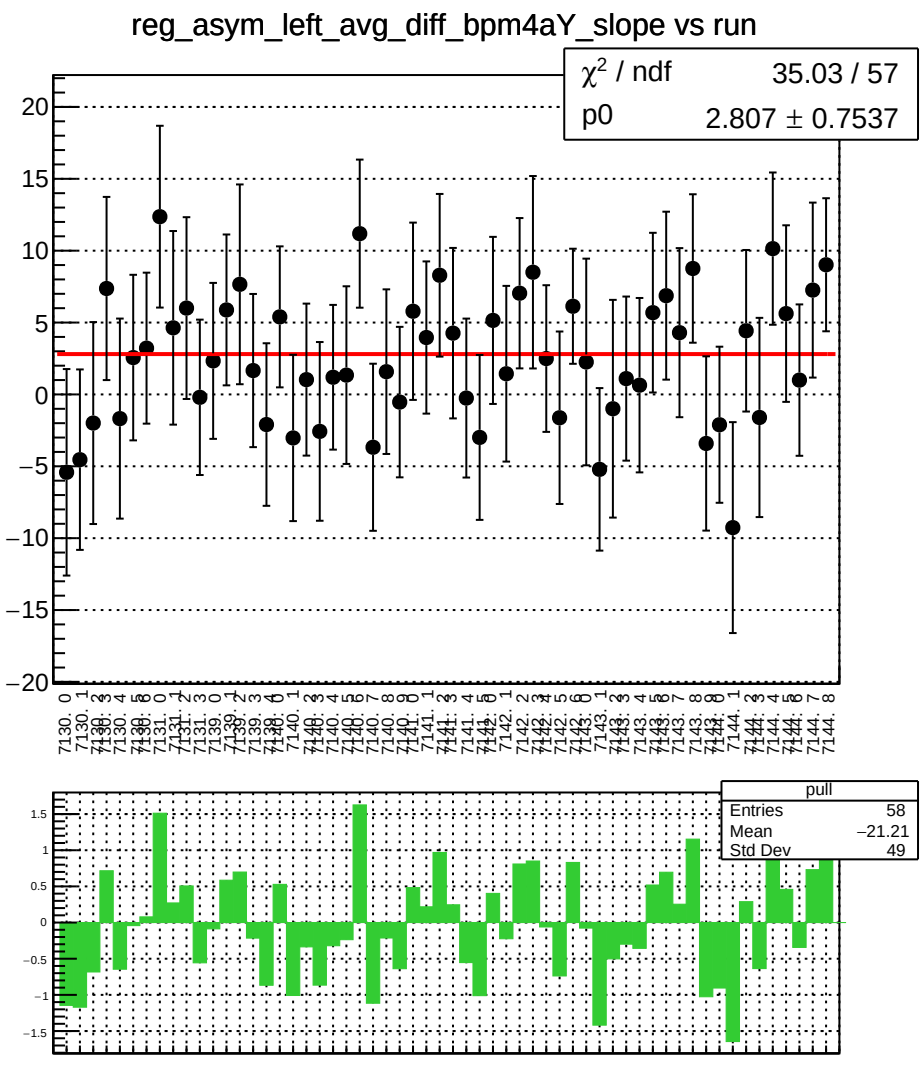

pull1D
Entries 58
Mean −0.009878
Std Dev 1.028

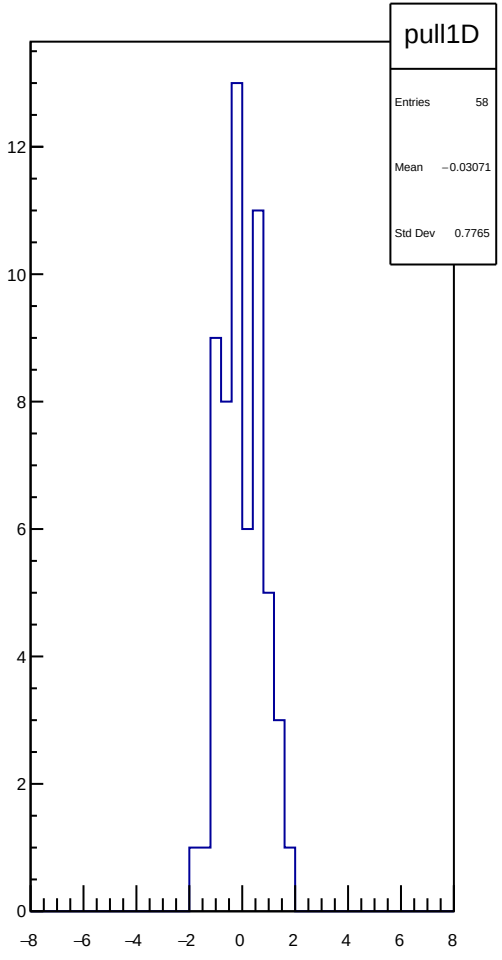

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 67.06 / 57
p0 −0.02203 ± 0.00533
pull
Entries 58
Mean 137.5
Std Dev 112.6

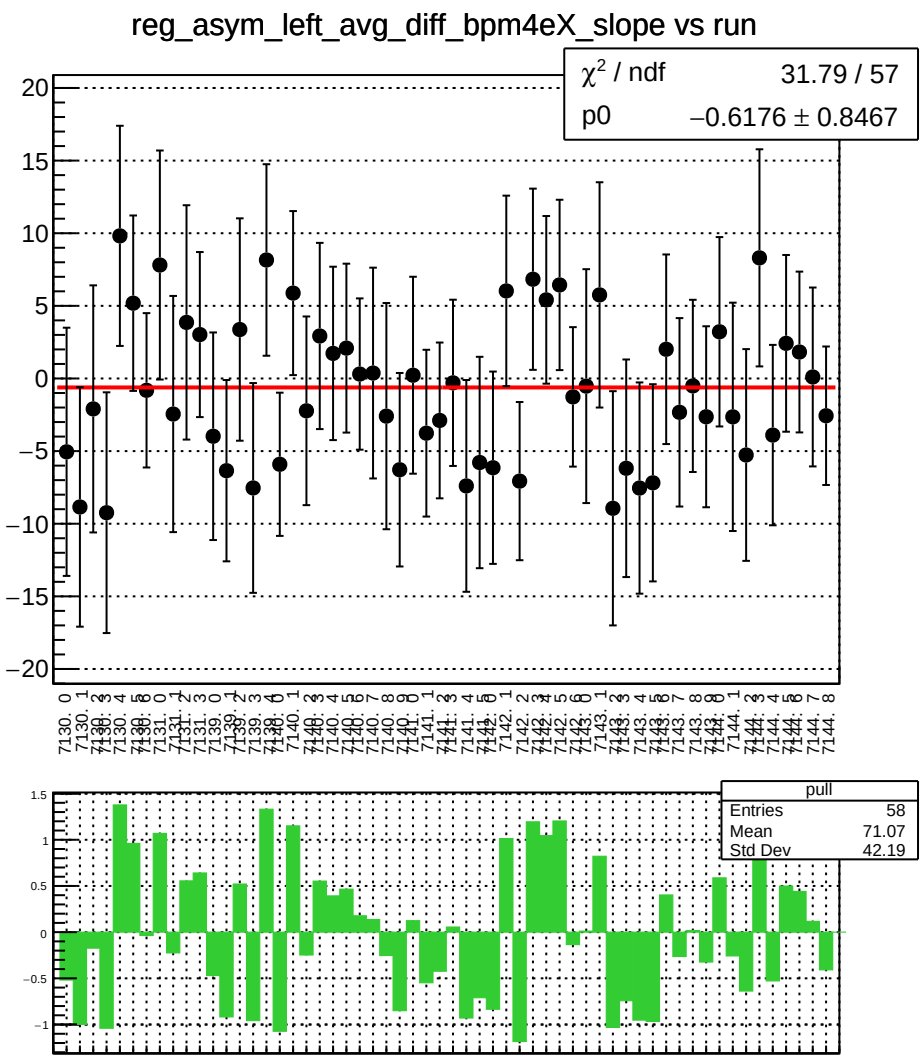

pull1D
Entries 58
Mean −0.01749
Std Dev 1.075

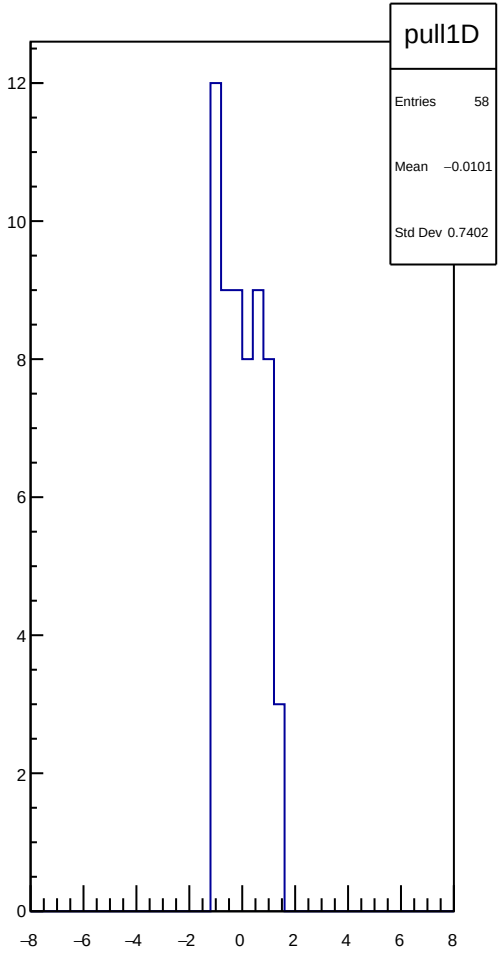

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 32.7 / 57
p0 −28.25 ± 0.8315
pull
Entries 58
Mean 140.8
Std Dev 113.3

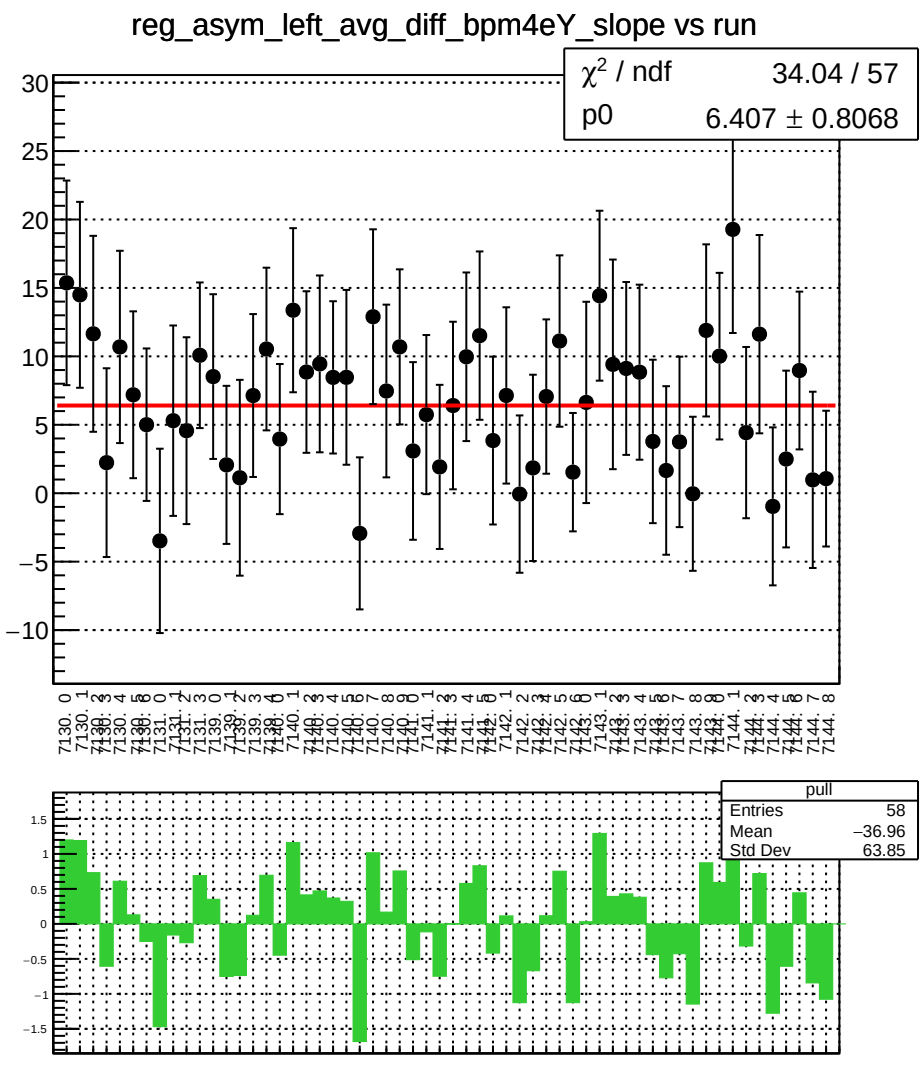

pull1D
Entries 58
Mean 0.01035
Std Dev 0.7508

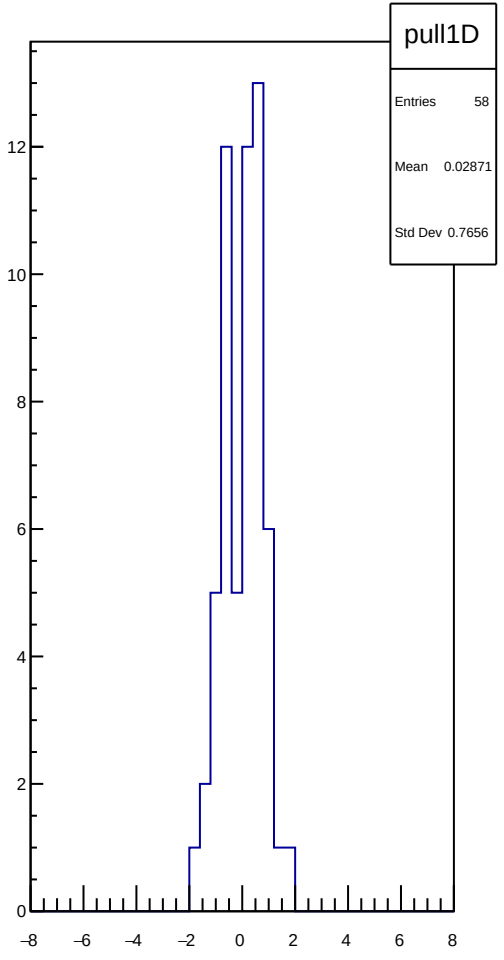

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.03 / 57
p0 2.807 ± 0.7537
pull
Entries 58
Mean −21.21
Std Dev 49

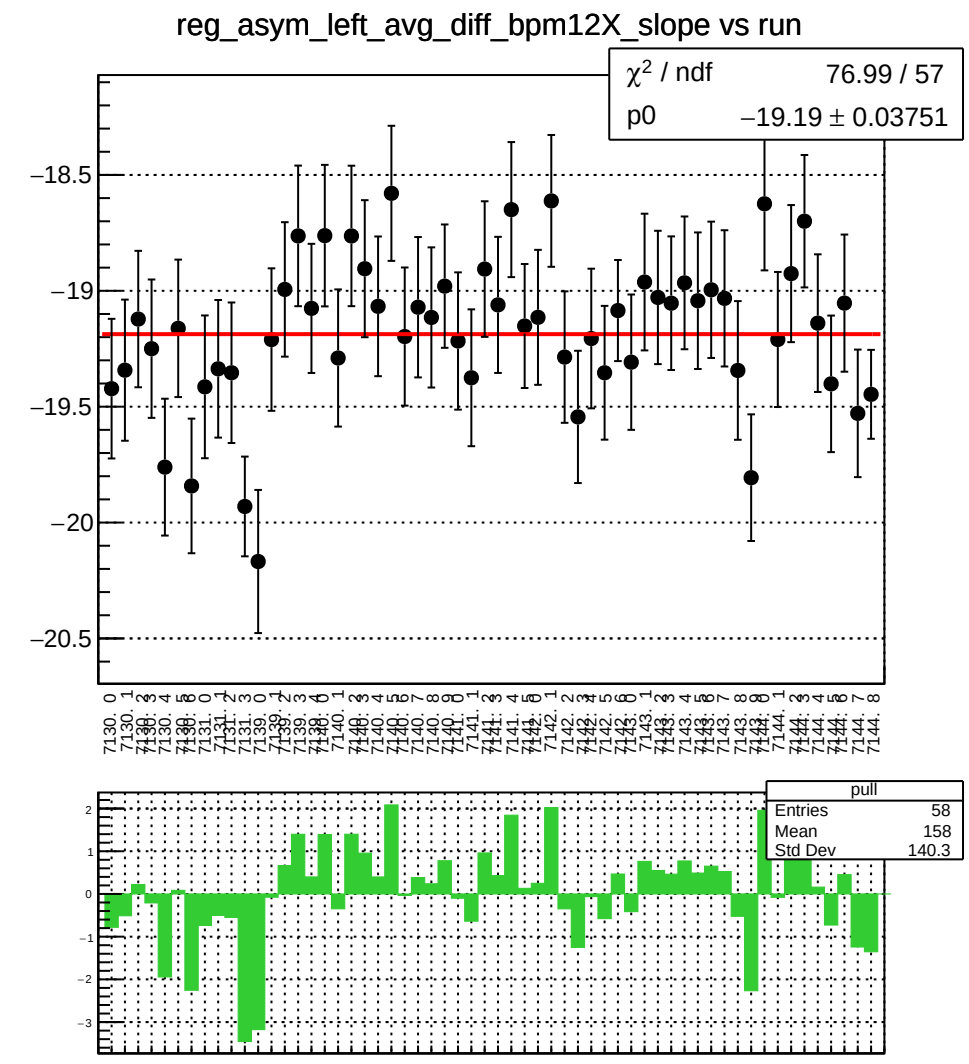

pull1D
Entries 58
Mean −0.03071
Std Dev 0.7765

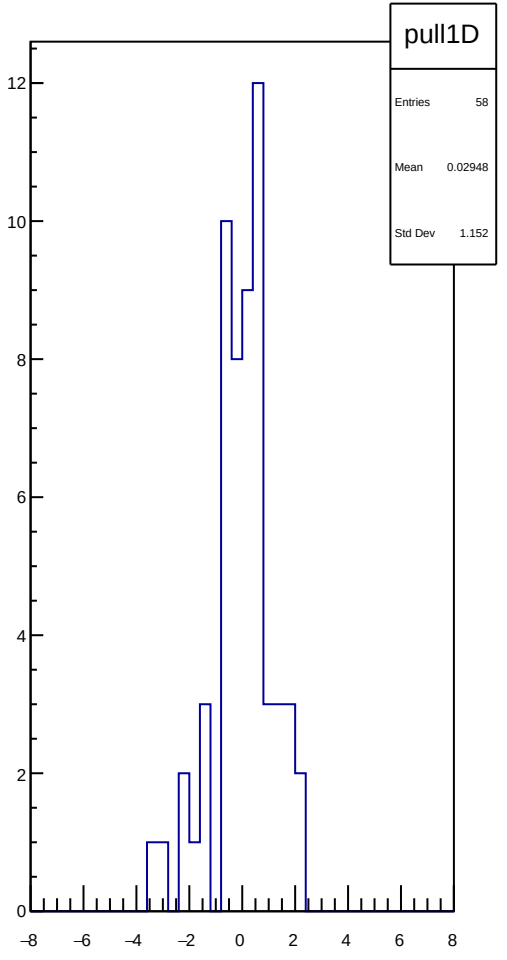

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.79 / 57
p0 −0.6176 ± 0.8467
pull
Entries 58
Mean 71.07
Std Dev 42.19

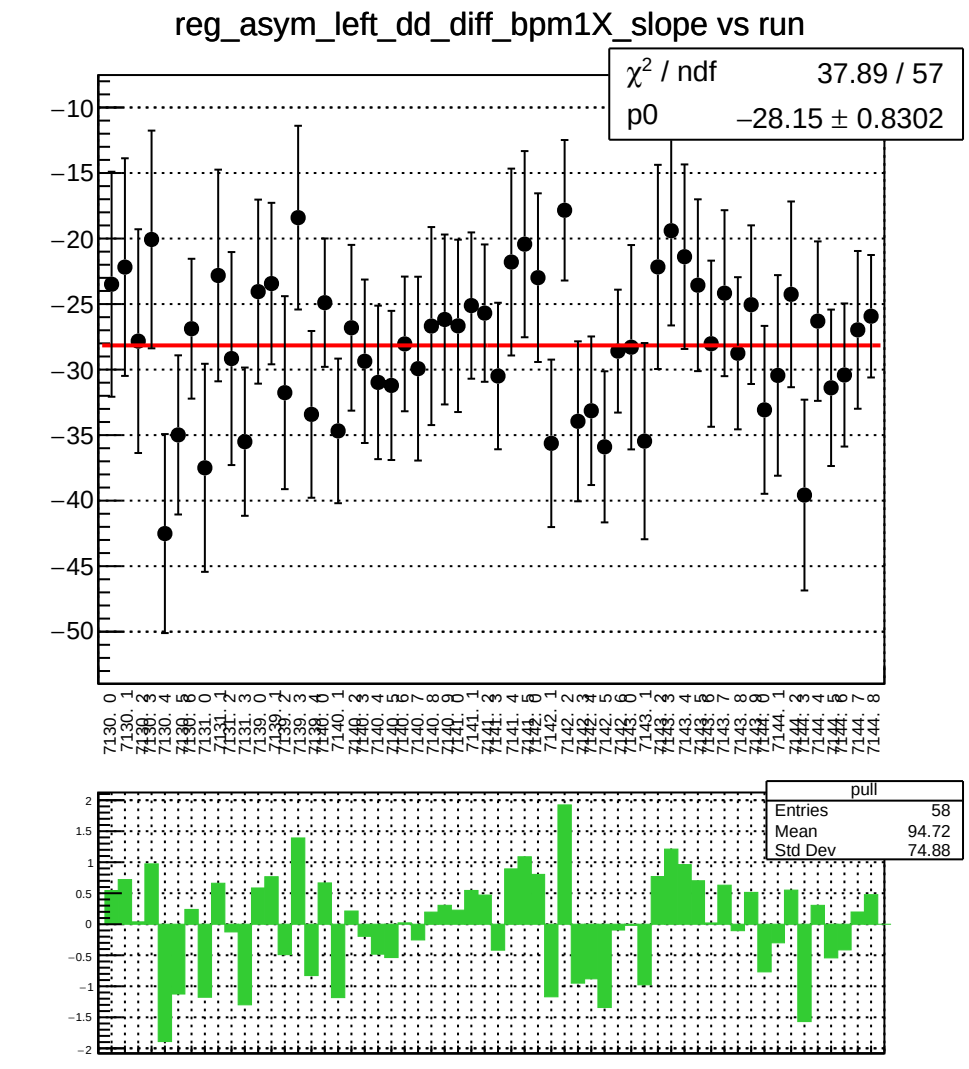

pull1D
Entries 58
Mean −0.0101
Std Dev 0.7402

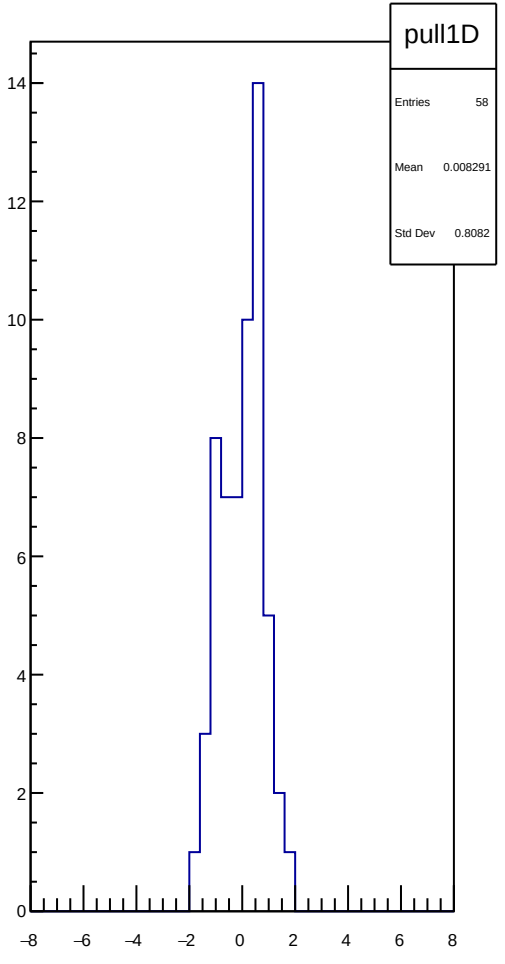

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 34.04 / 57
p0 6.407 ± 0.8068
pull
Entries 58
Mean −36.96
Std Dev 63.85

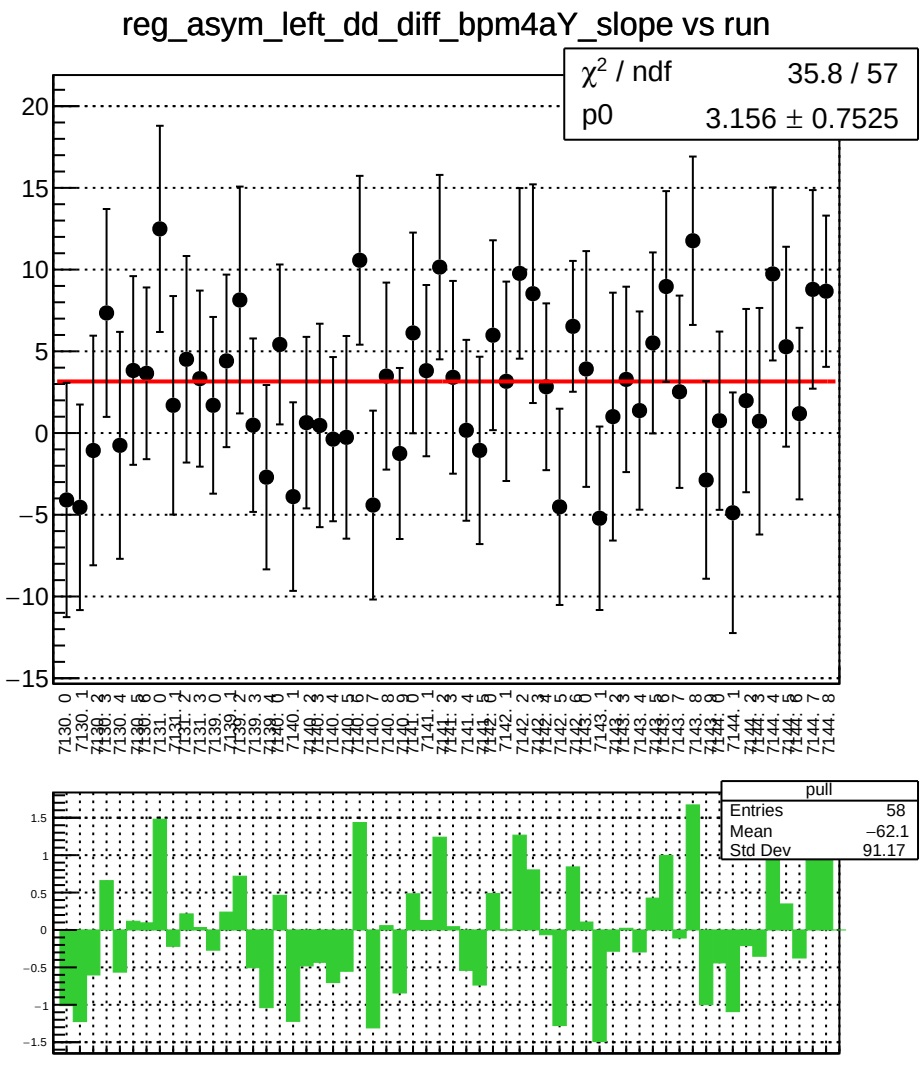

pull1D
Entries 58
Mean 0.02871
Std Dev 0.7656

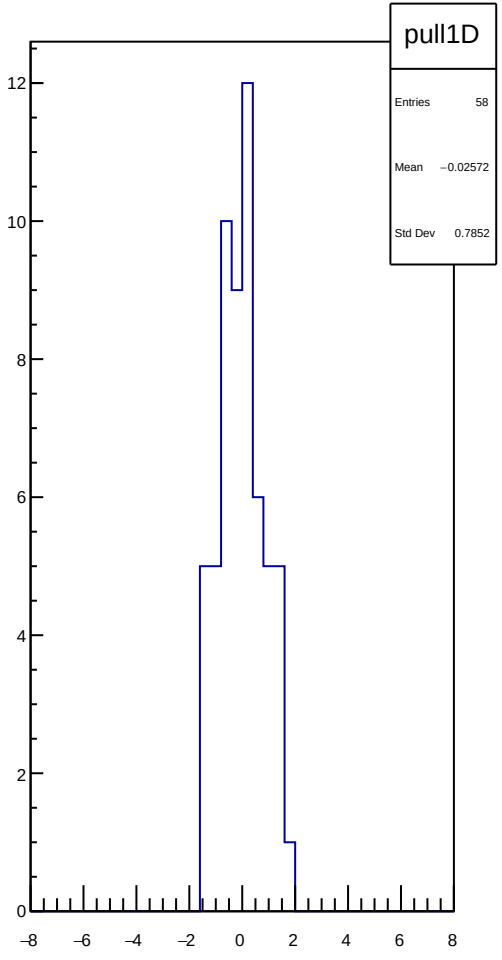

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 76.99 / 57
p0 −19.19 ± 0.03751
−18.5
−19
−19.5
−20
−20.5
pull
Entries 58
Mean 158
Std Dev 140.3
2
1
0
−1
−2
−3

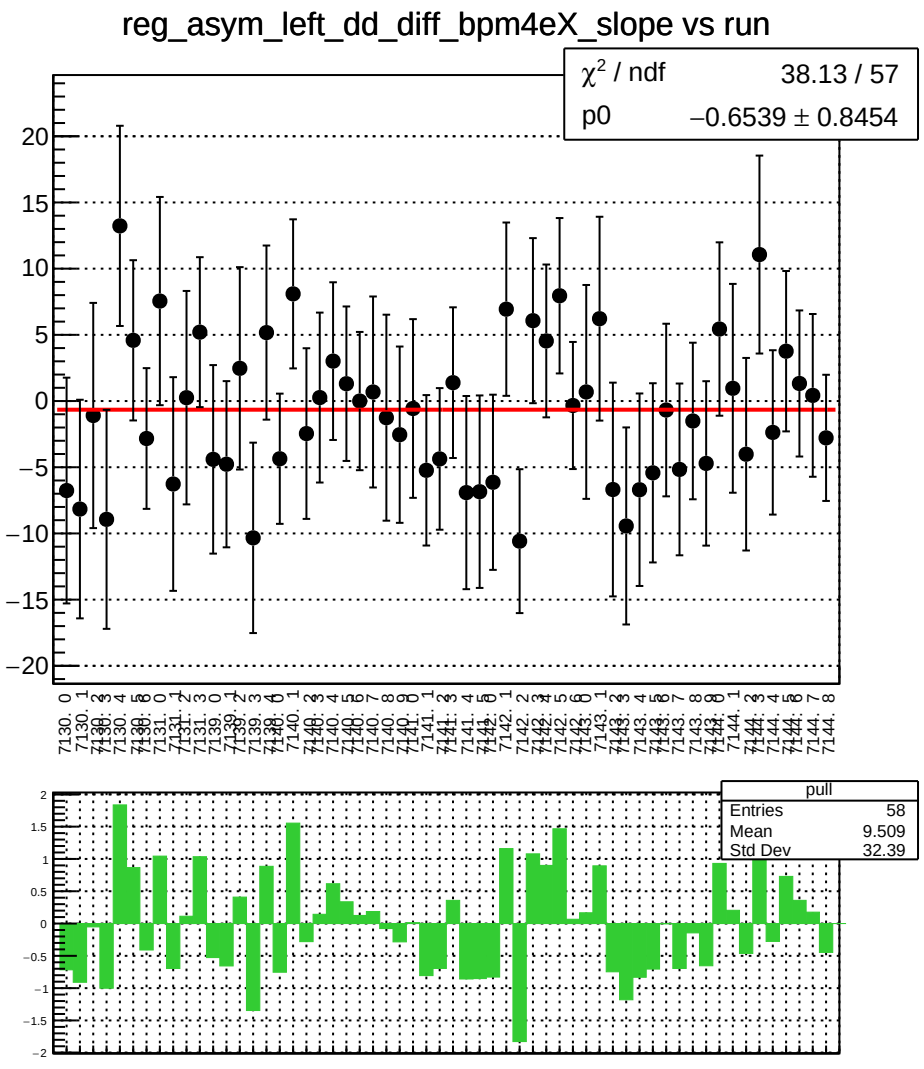

pull1D
Entries 58
Mean 0.02948
Std Dev 1.152
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

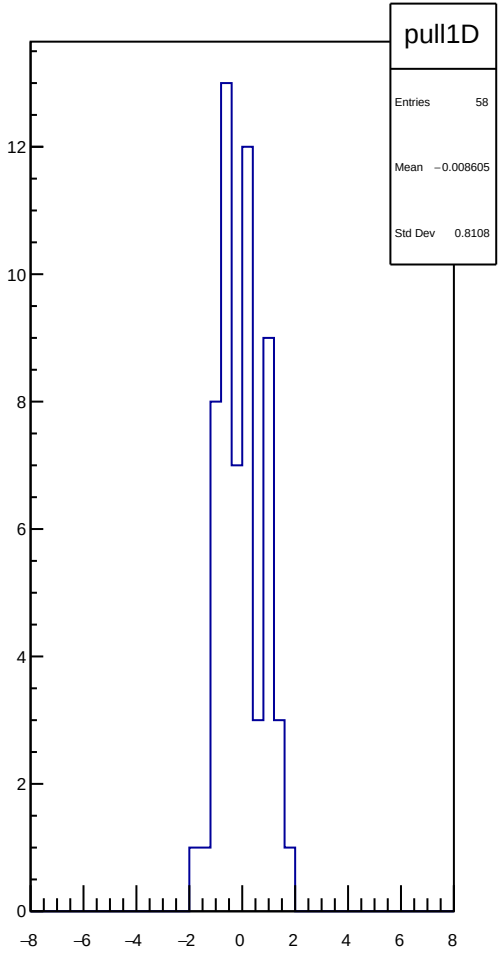

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 37.89 / 57
p0 −28.15 ± 0.8302
pull
Entries 58
Mean 94.72
Std Dev 74.88

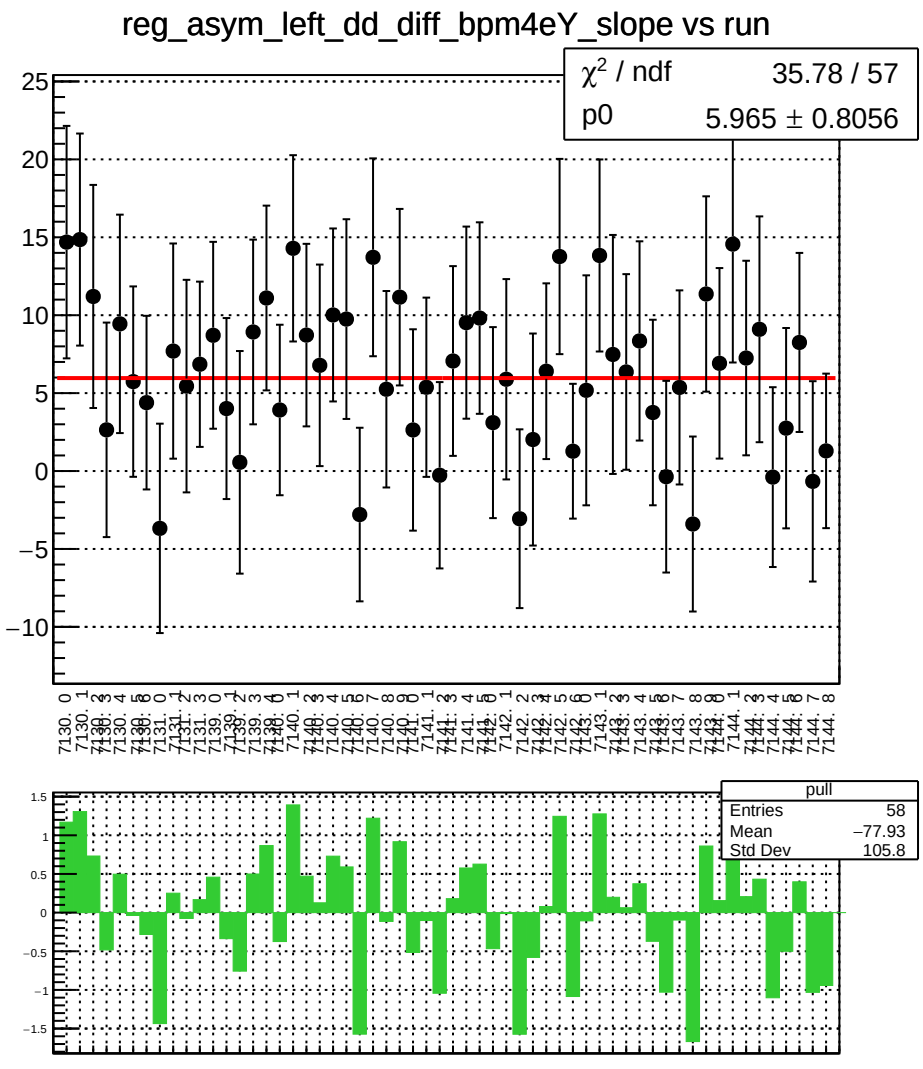

pull1D
Entries 58
Mean 0.008291
Std Dev 0.8082

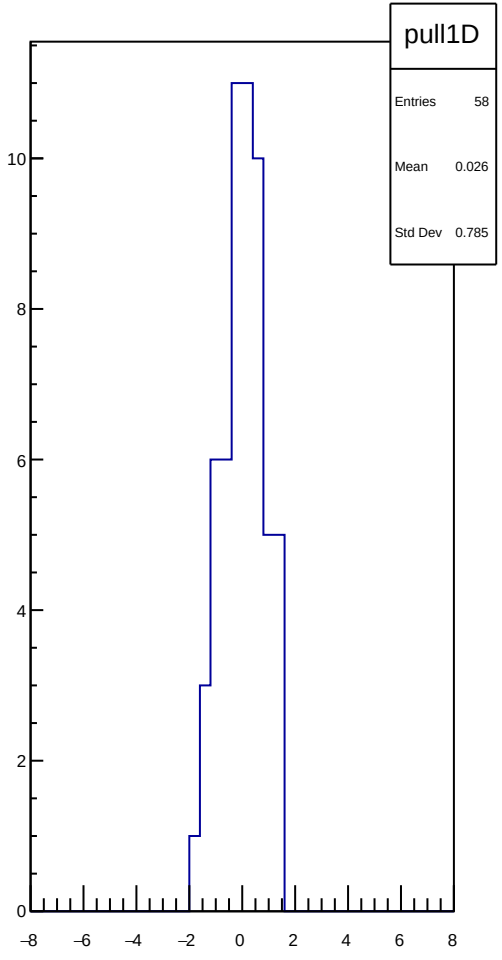

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.8 / 57
p0 3.156 ± 0.7525
pull
Entries 58
Mean −62.1
Std Dev 91.17

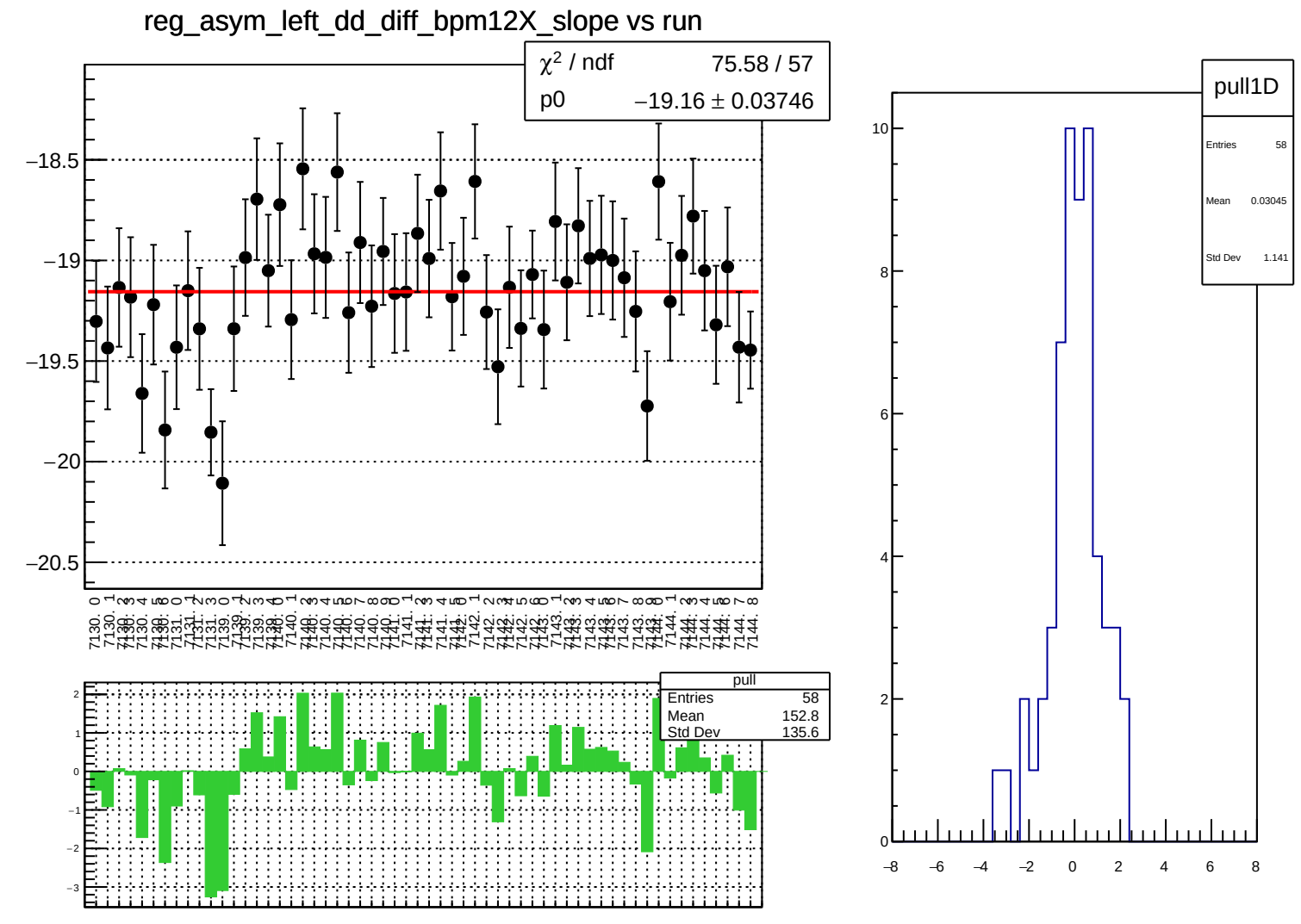

pull1D
Entries 58
Mean −0.02572
Std Dev 0.7852

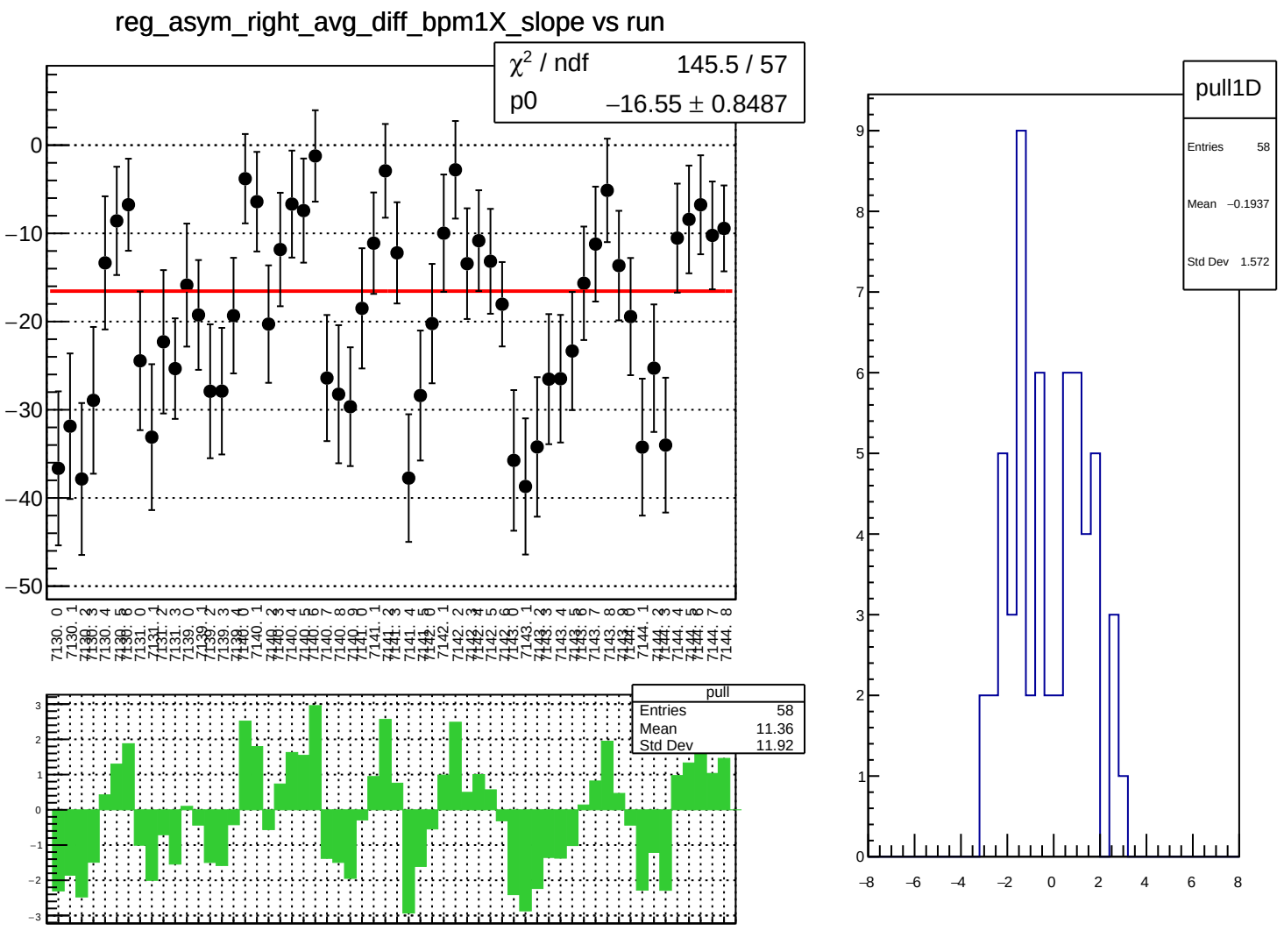

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.13 / 57
p0 −0.6539 ± 0.8454
pull
Entries 58
Mean 9.509
Std Dev 32.39

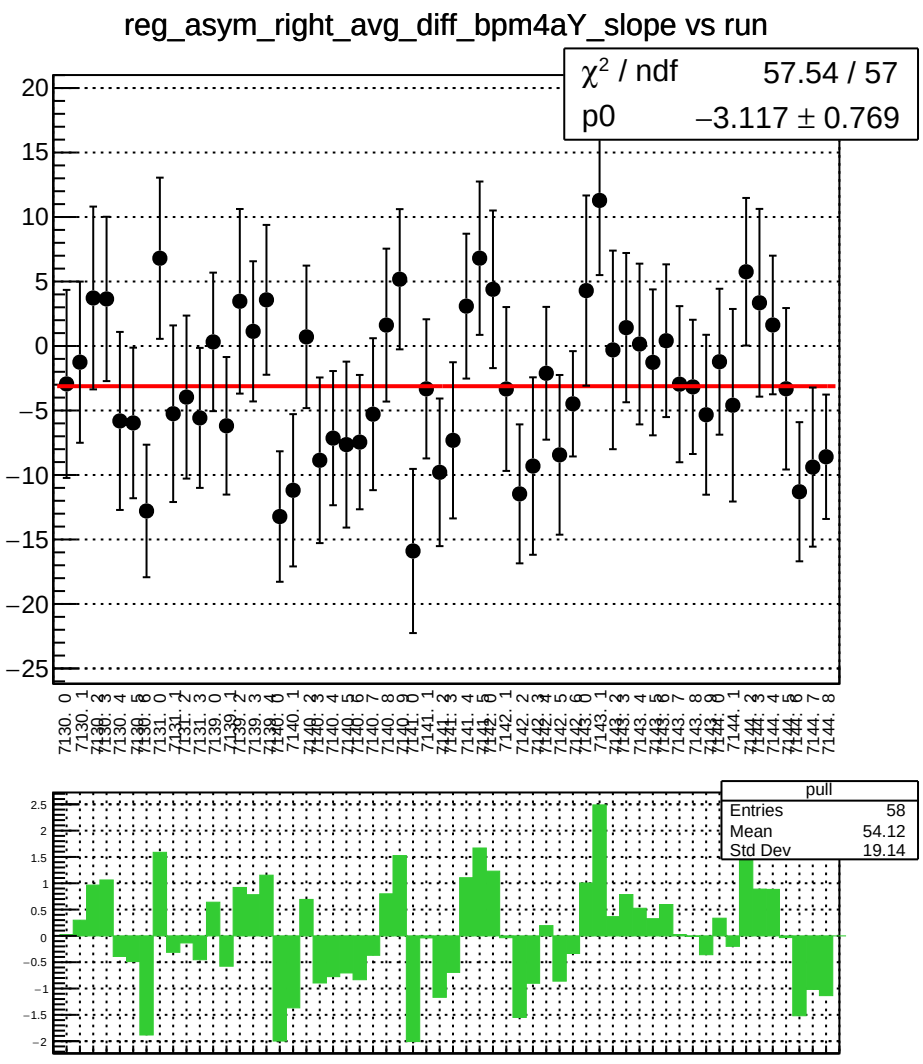

pull1D
Entries 58
Mean −0.008605
Std Dev 0.8108

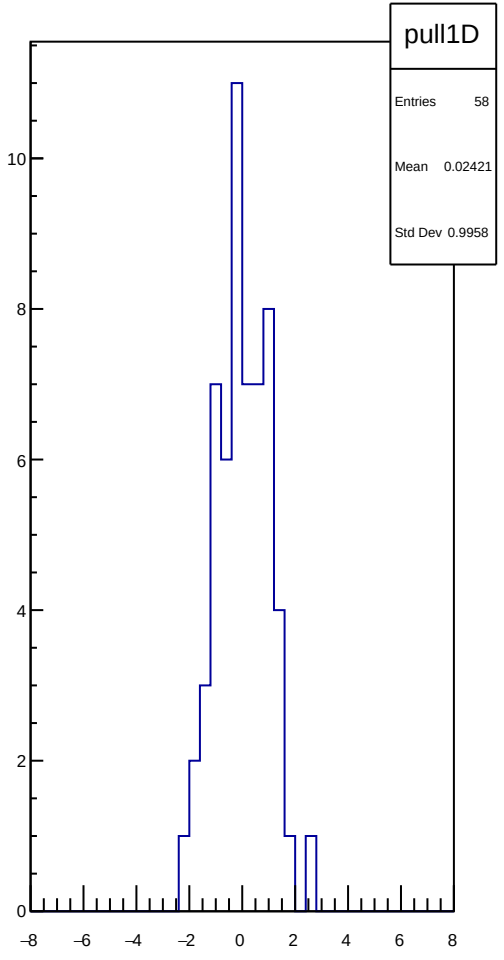

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.78 / 57
p0 5.965 ± 0.8056
pull
Entries 58
Mean −77.93
Std Dev 105.8

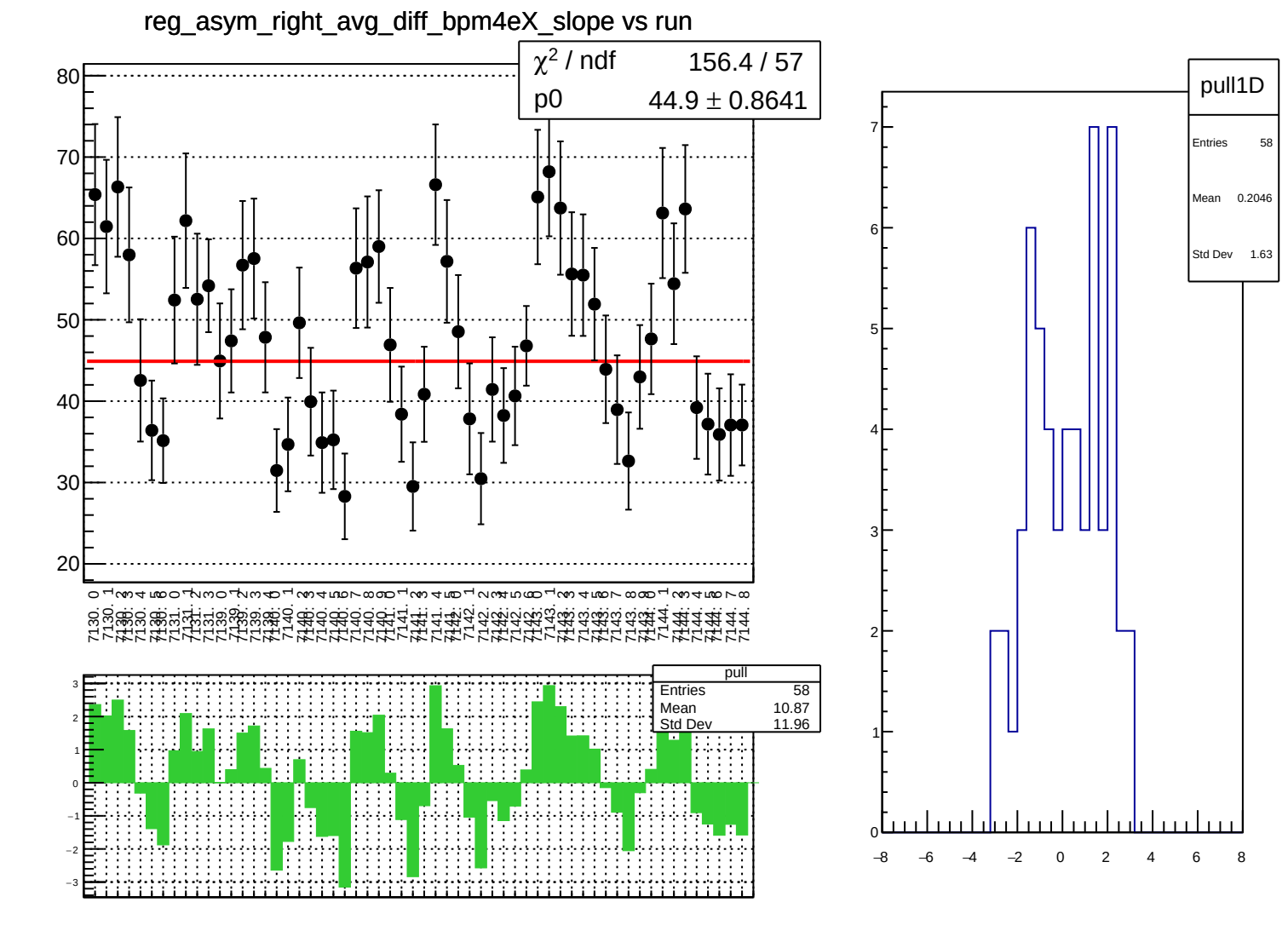

pull1D
Entries 58
Mean 0.026
Std Dev 0.785

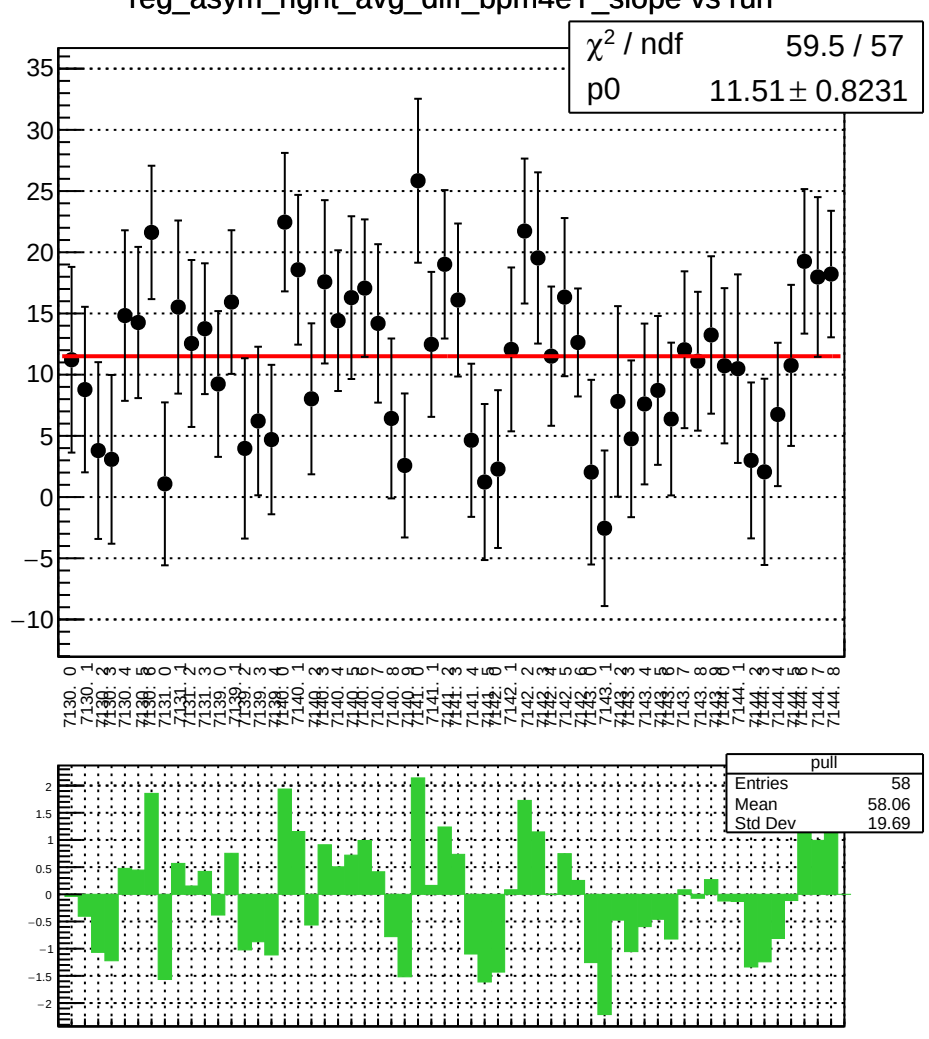

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 75.58 / 57
p0 −19.16 ± 0.03746
−18.5
−19
−19.5
−20
−20.5
pull
Entries 58
Mean 152.8
Std Dev 135.6
pull1D
Entries 58
Mean 0.03045
Std Dev 1.141

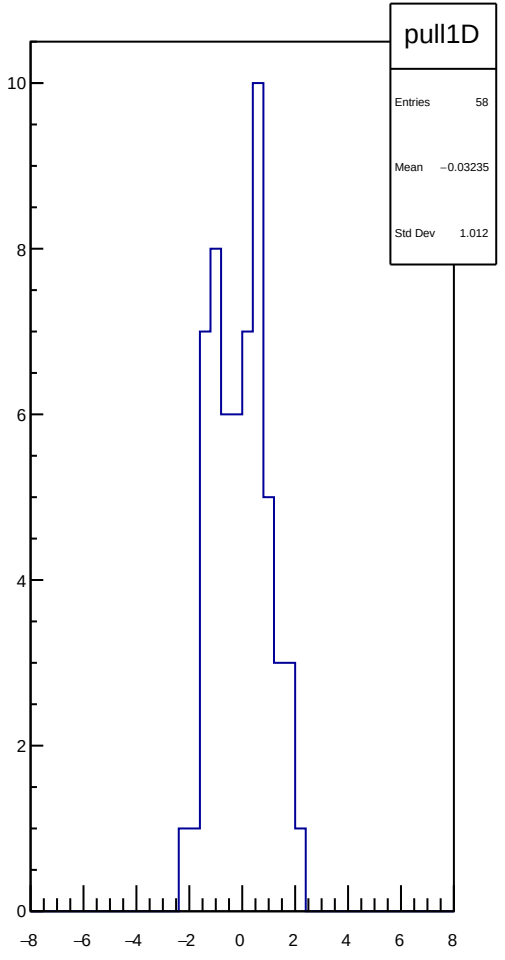

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 145.5 / 57
p0 −16.55 ± 0.8487
pull
Entries 58
Mean 11.36
Std Dev 11.92
pull1D
Entries 58
Mean −0.1937
Std Dev 1.572

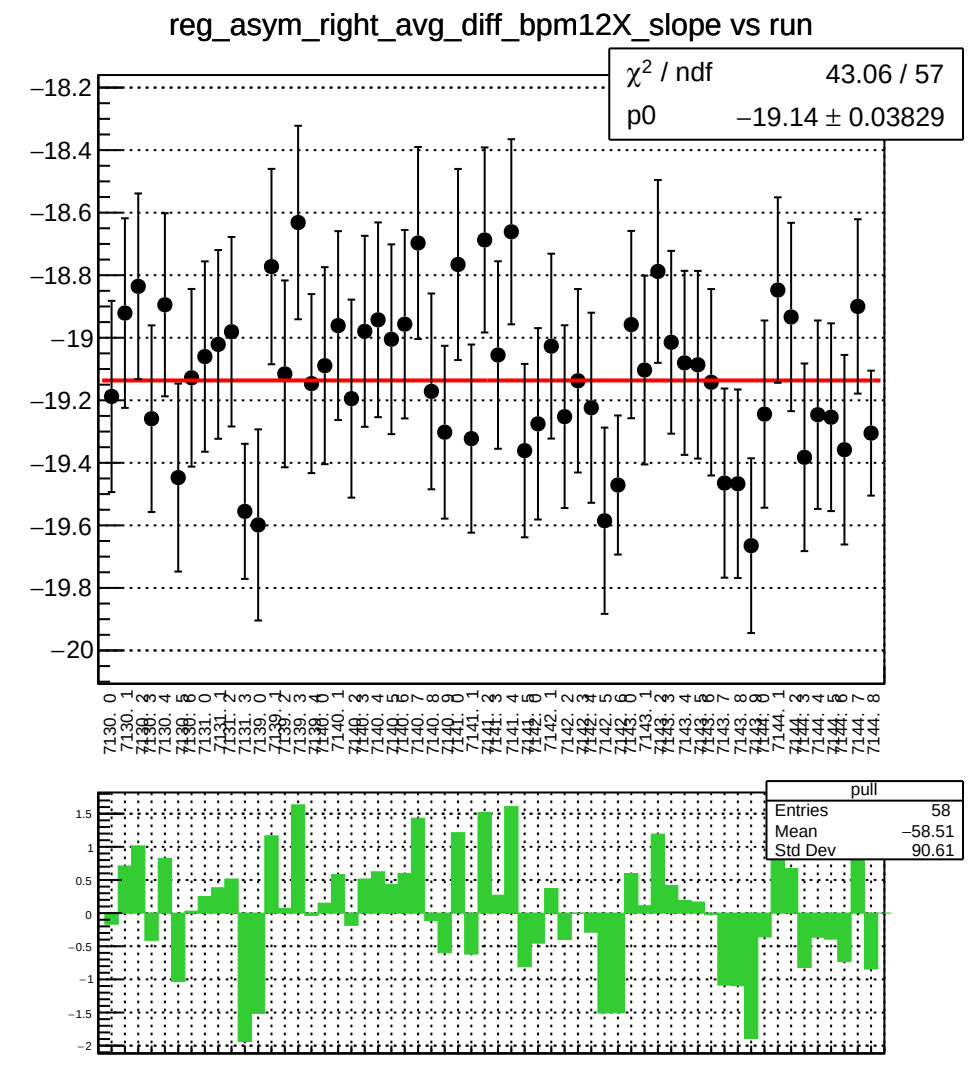

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 57.54 / 57
p0 −3.117 ± 0.769
pull
Entries 58
Mean 54.12
Std Dev 19.14

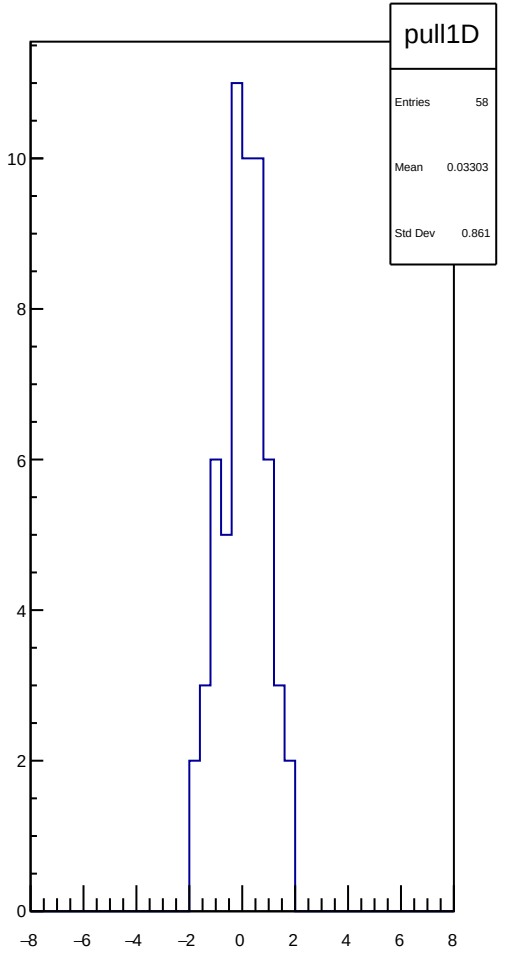

pull1D
Entries 58
Mean 0.02421
Std Dev 0.9958

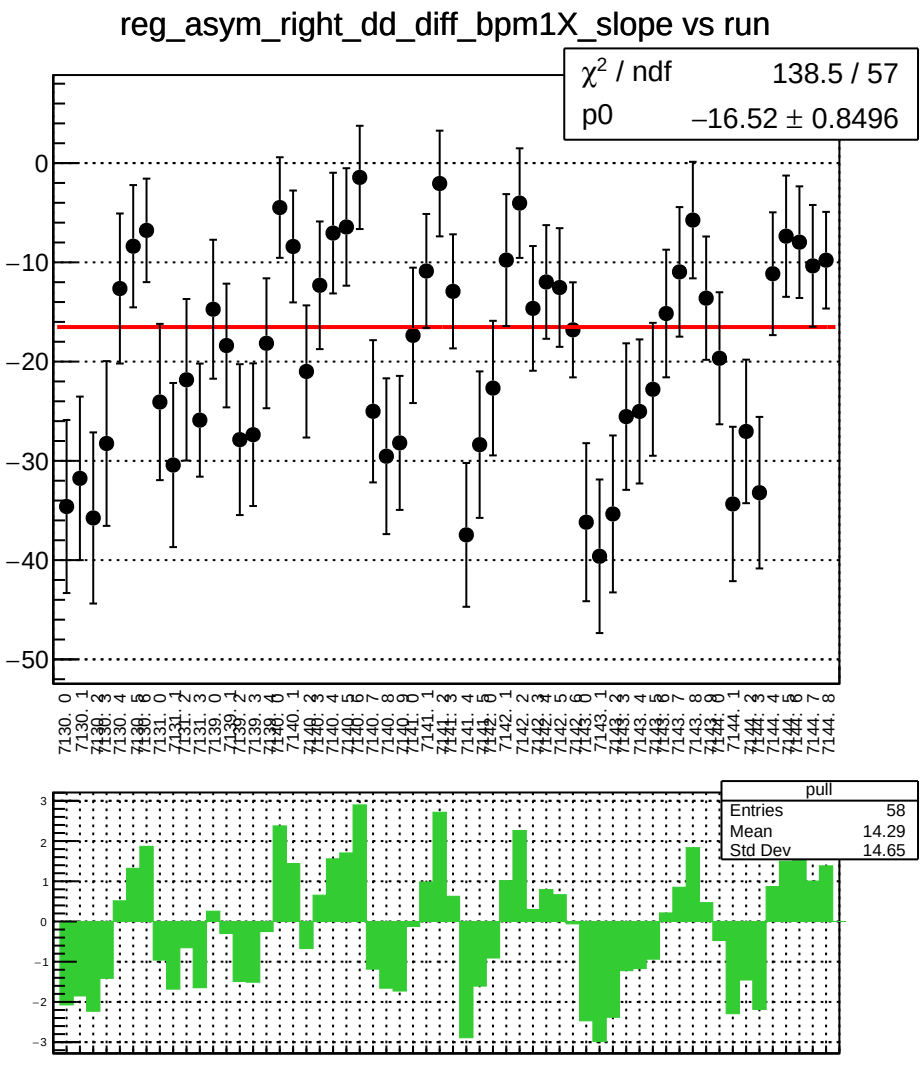

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 156.4 / 57
p0 44.9 ± 0.8641
pull
Entries 58
Mean 10.87
Std Dev 11.96
pull1D
Entries 58
Mean 0.2046
Std Dev 1.63

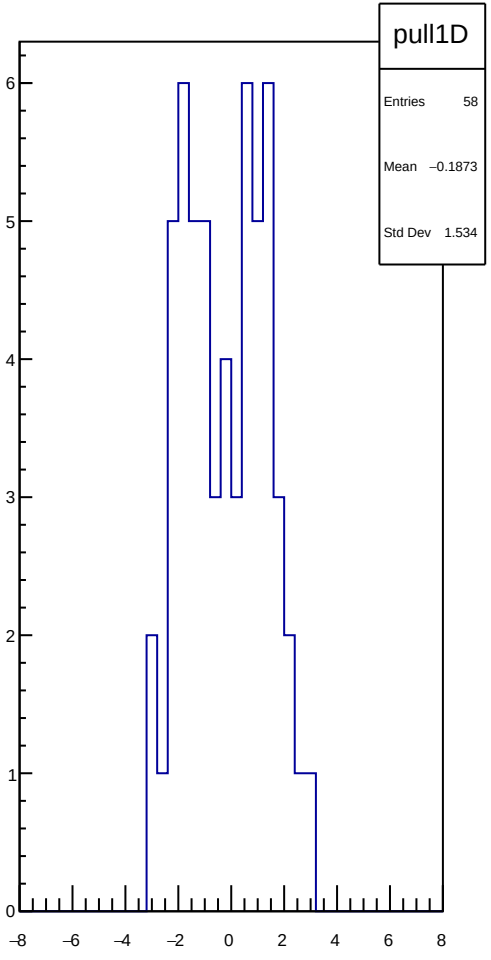

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 59.5 / 57
p0 11.51 ± 0.8231
pull
Entries 58
Mean 58.06
Std Dev 19.69

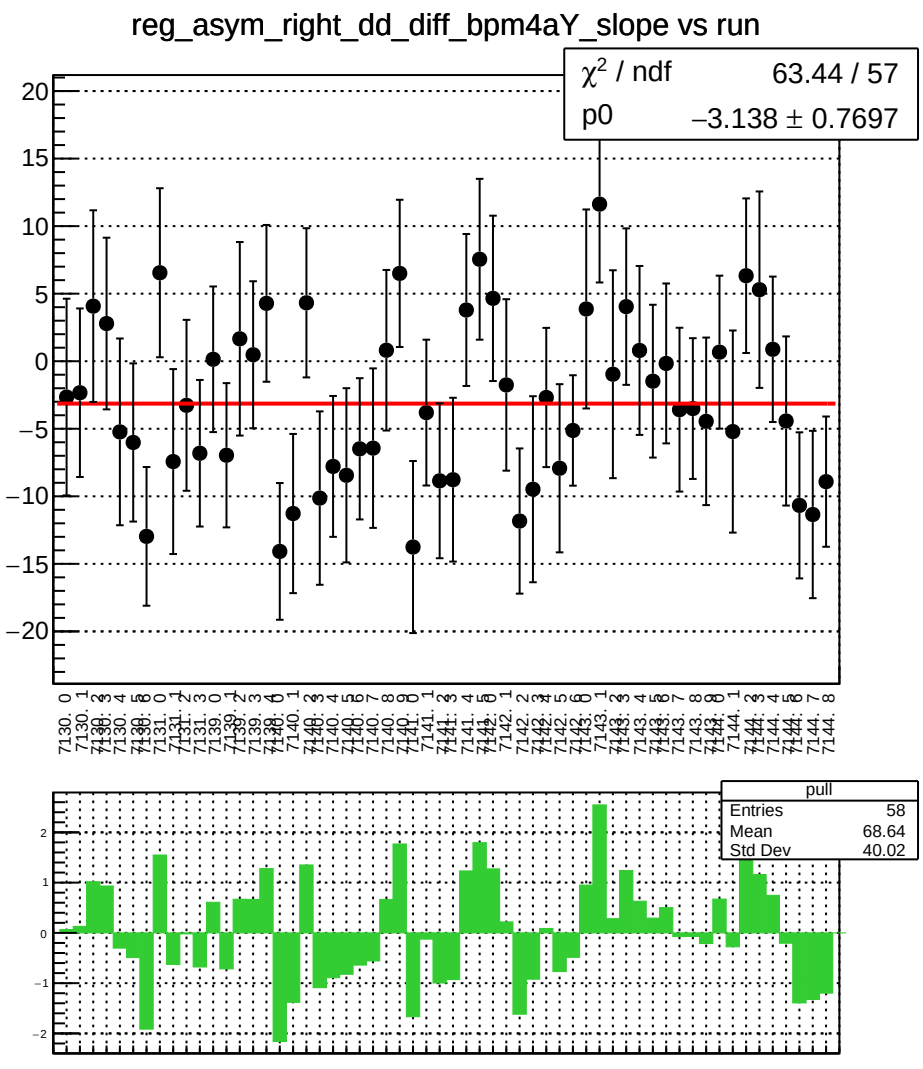

pull1D
Entries 58
Mean −0.03235
Std Dev 1.012

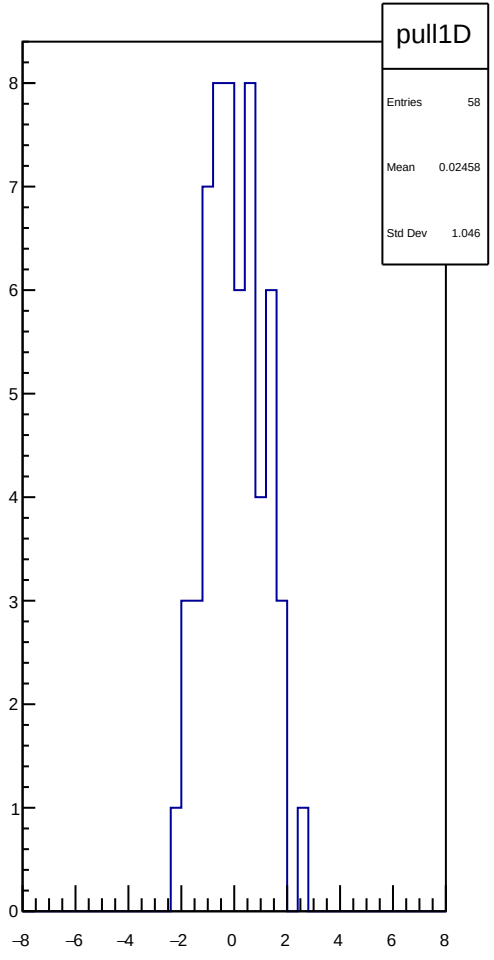

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 43.06 / 57
p0 −19.14 ± 0.03829
pull
Entries 58
Mean −58.51
Std Dev 90.61

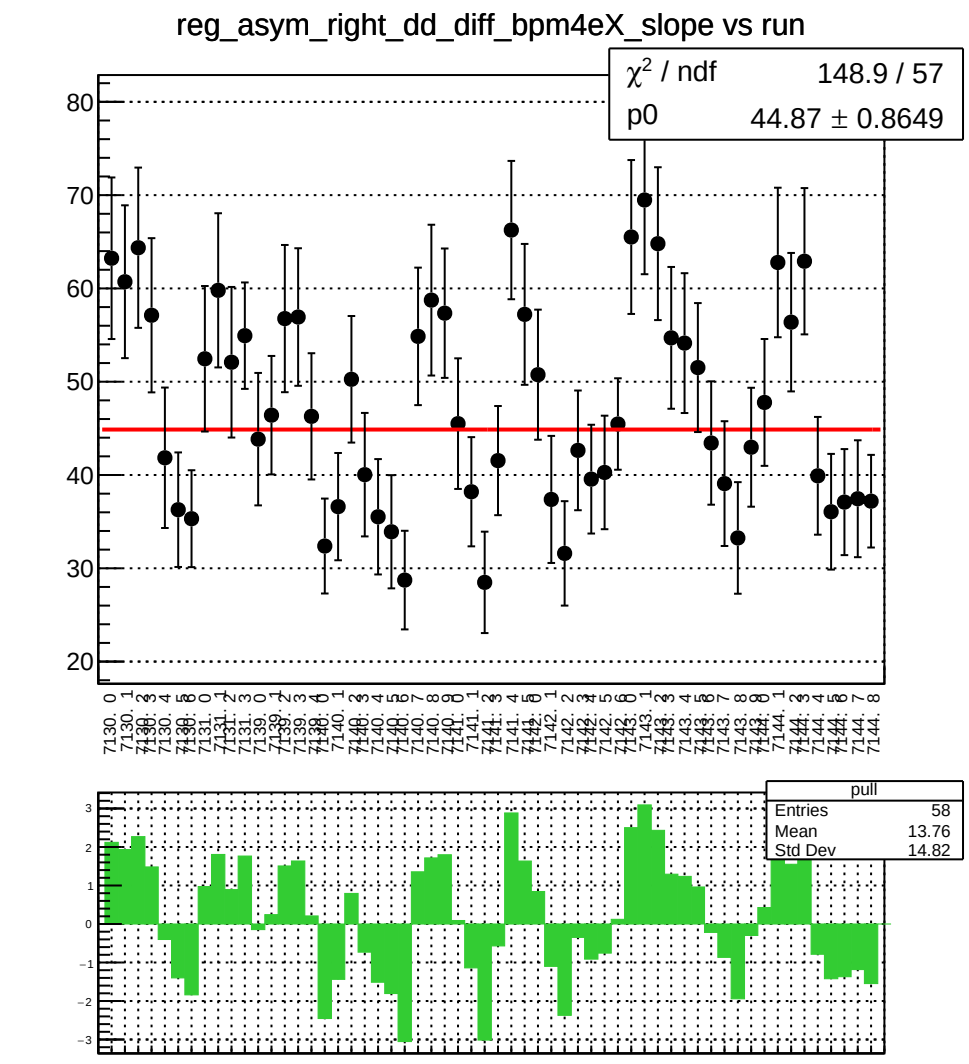

pull1D
Entries 58
Mean 0.03303
Std Dev 0.861

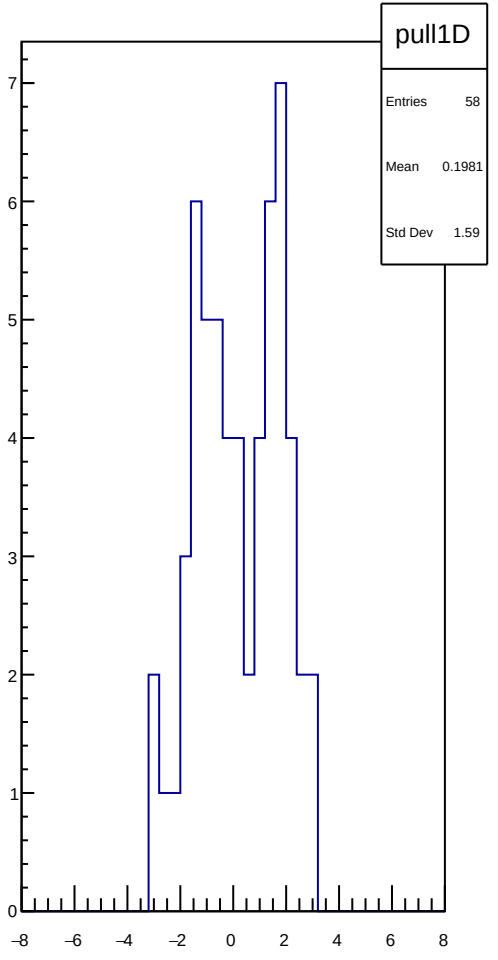

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 138.5 / 57
p0 −16.52 ± 0.8496
pull
Entries 58
Mean 14.29
Std Dev 14.65

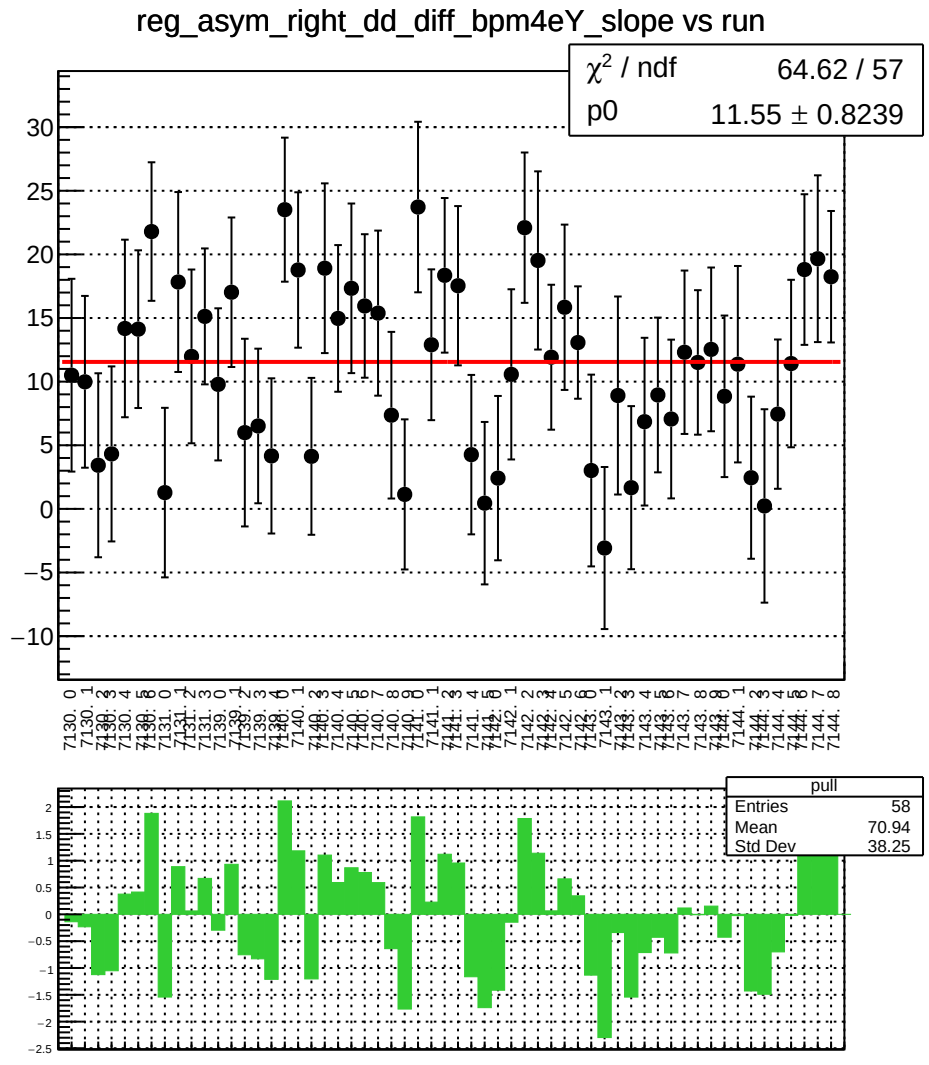

pull1D
Entries 58
Mean −0.1873
Std Dev 1.534

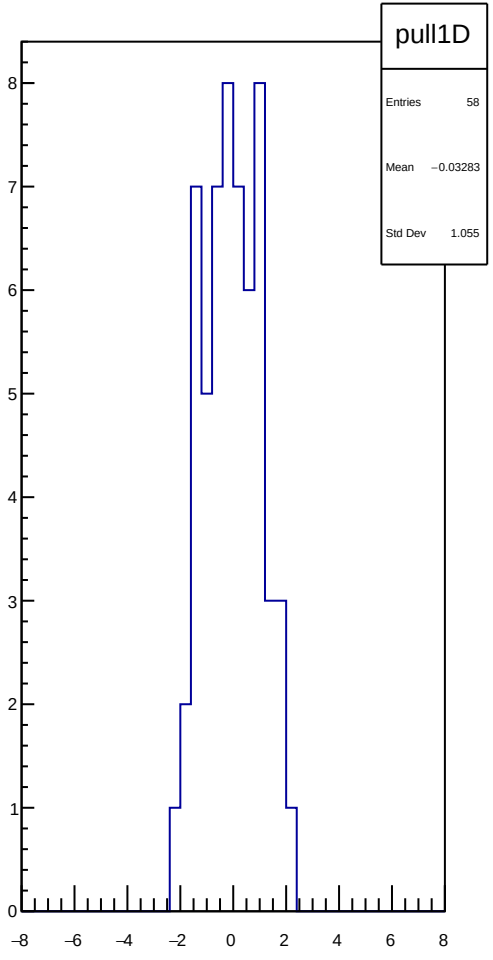

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.44 / 57
p0 −3.138 ± 0.7697
pull
Entries 58
Mean 68.64
Std Dev 40.02

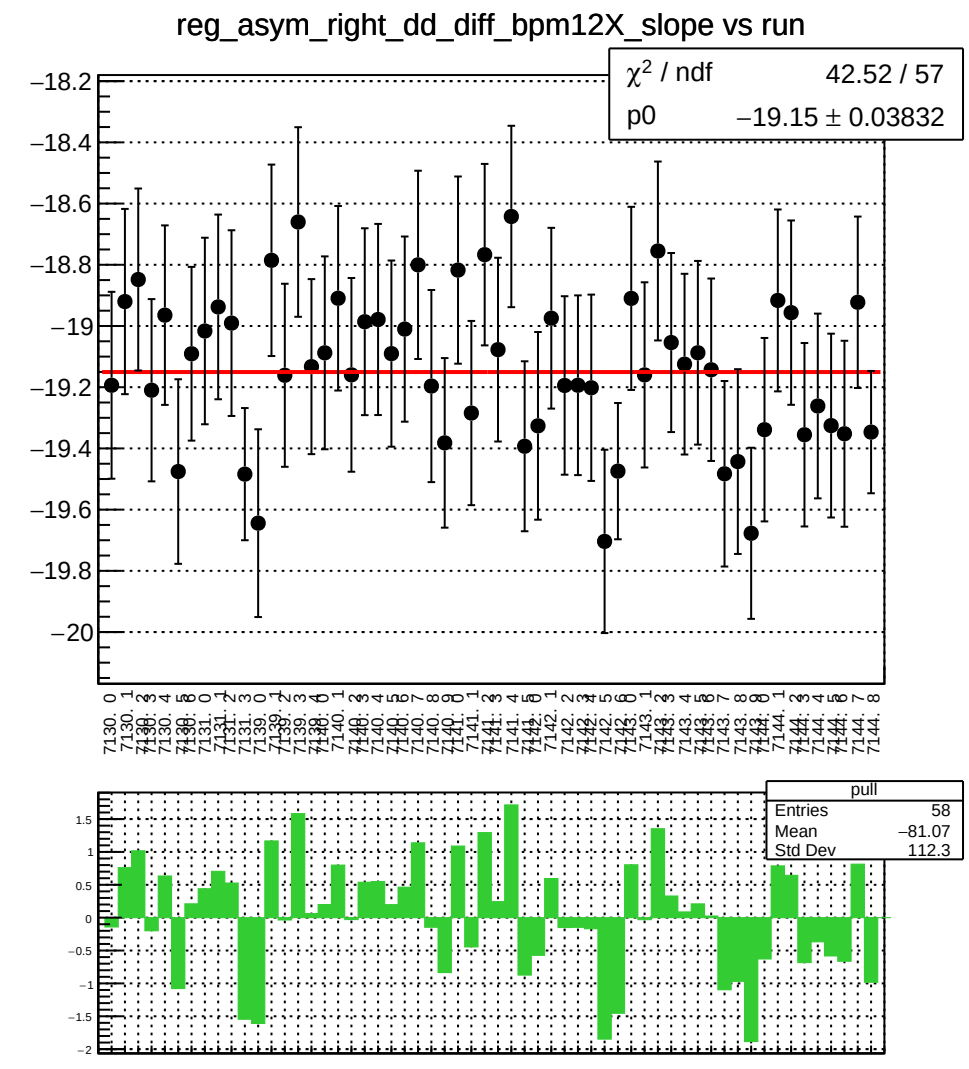

pull1D
Entries 58
Mean 0.02458
Std Dev 1.046

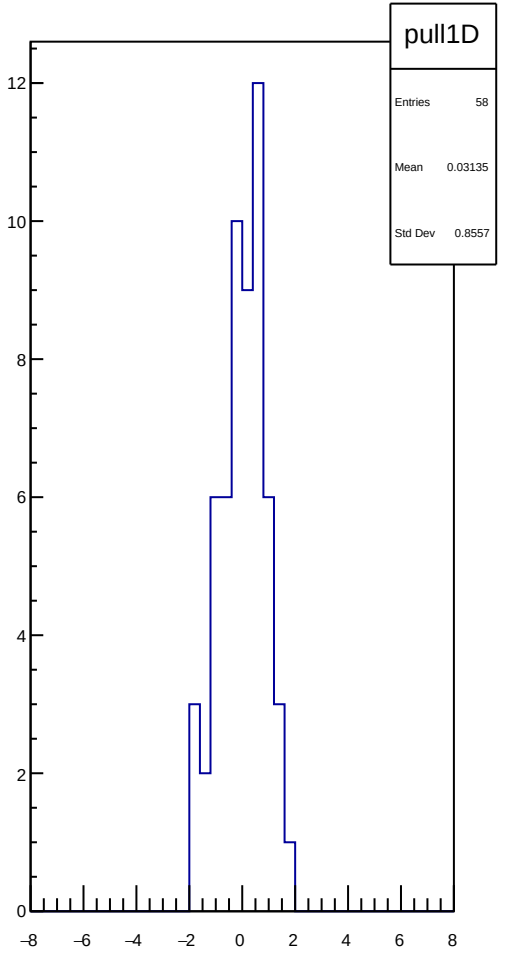

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 148.9 / 57
p0 44.87 ± 0.8649
pull
Entries 58
Mean 13.76
Std Dev 14.82

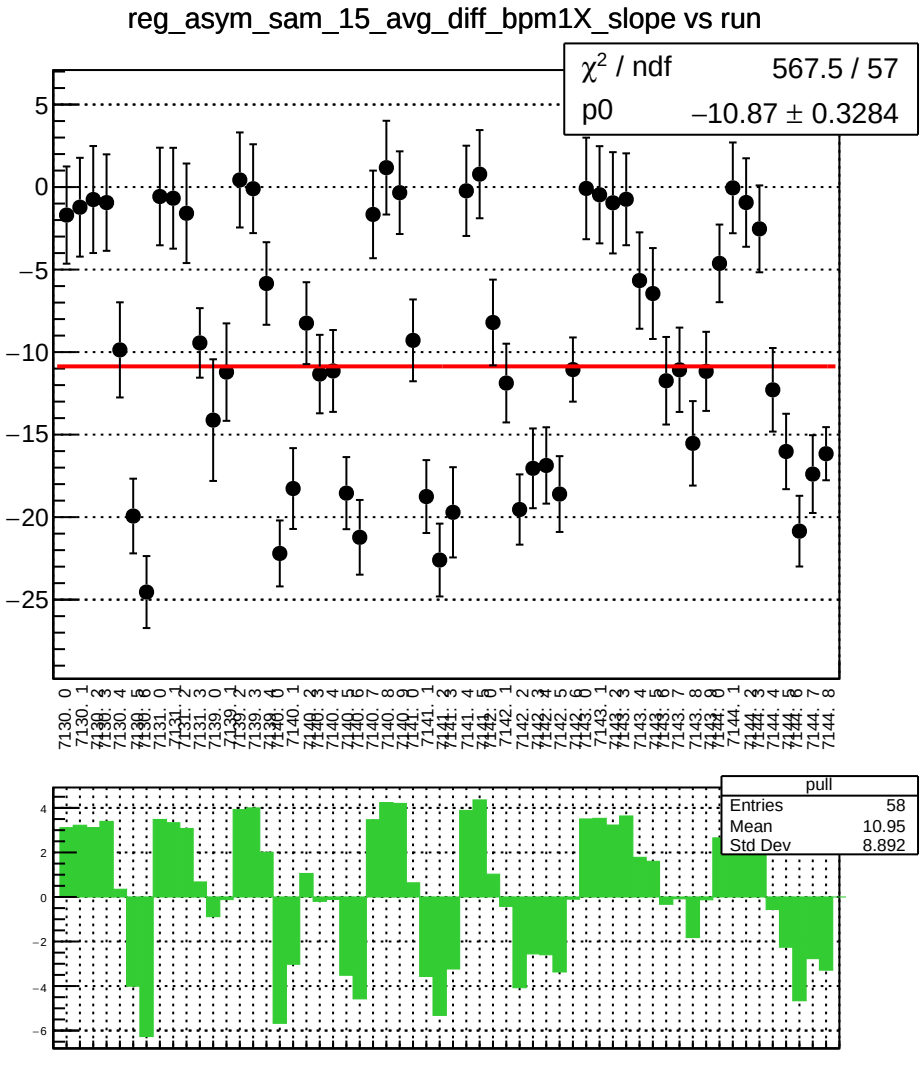

pull1D
Entries 58
Mean 0.1981
Std Dev 1.59

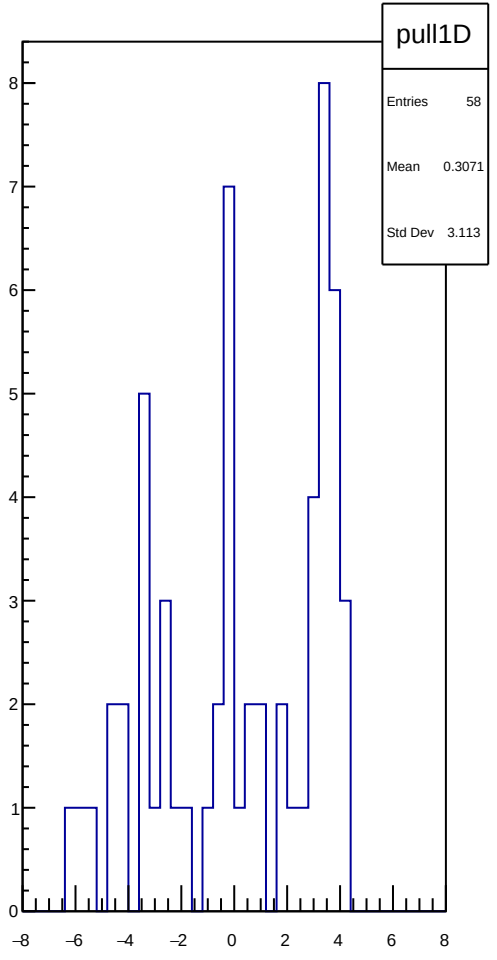

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.62 / 57
p0 11.55 ± 0.8239
pull
Entries 58
Mean 70.94
Std Dev 38.25

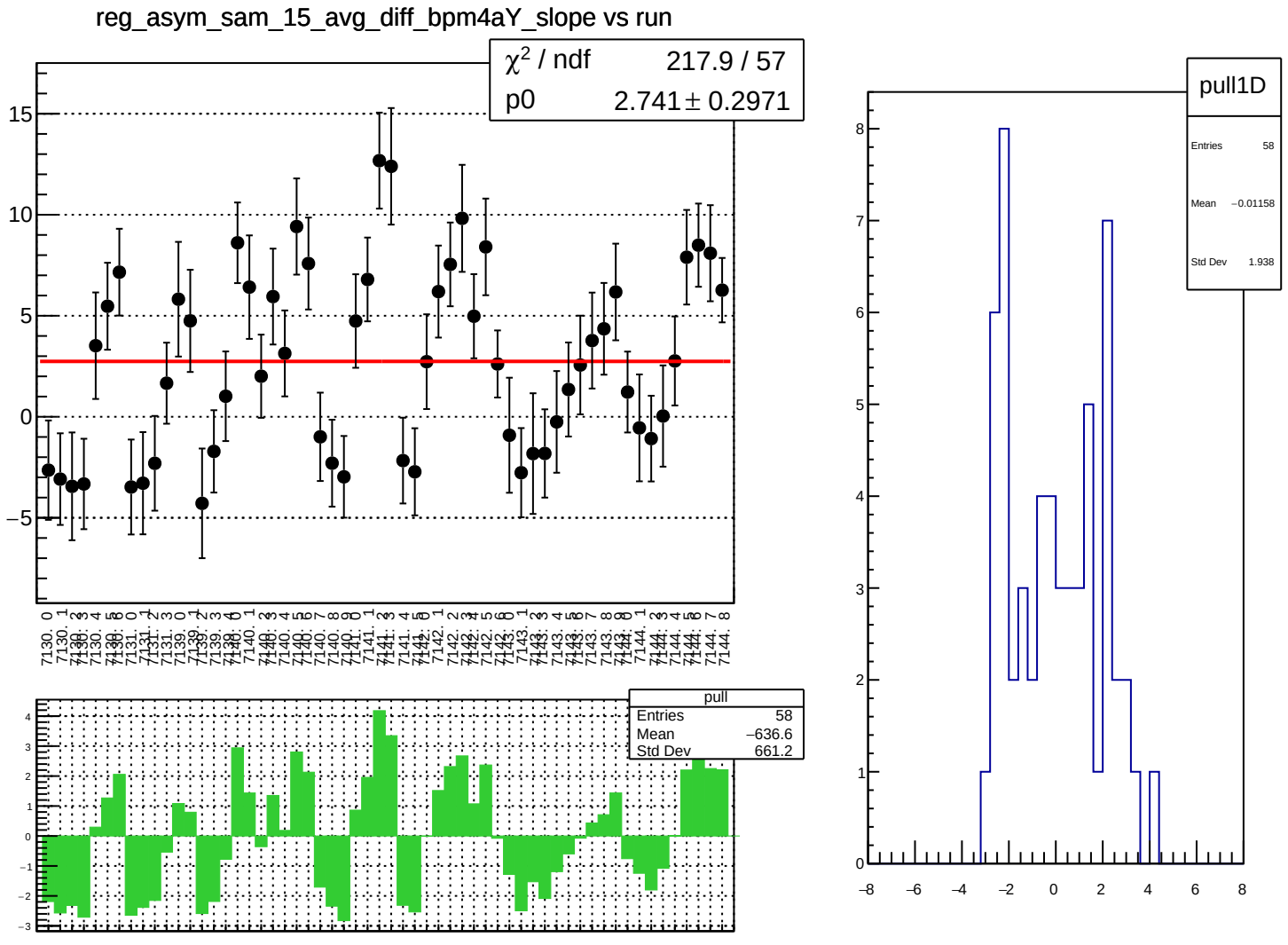

pull1D
Entries 58
Mean −0.03283
Std Dev 1.055

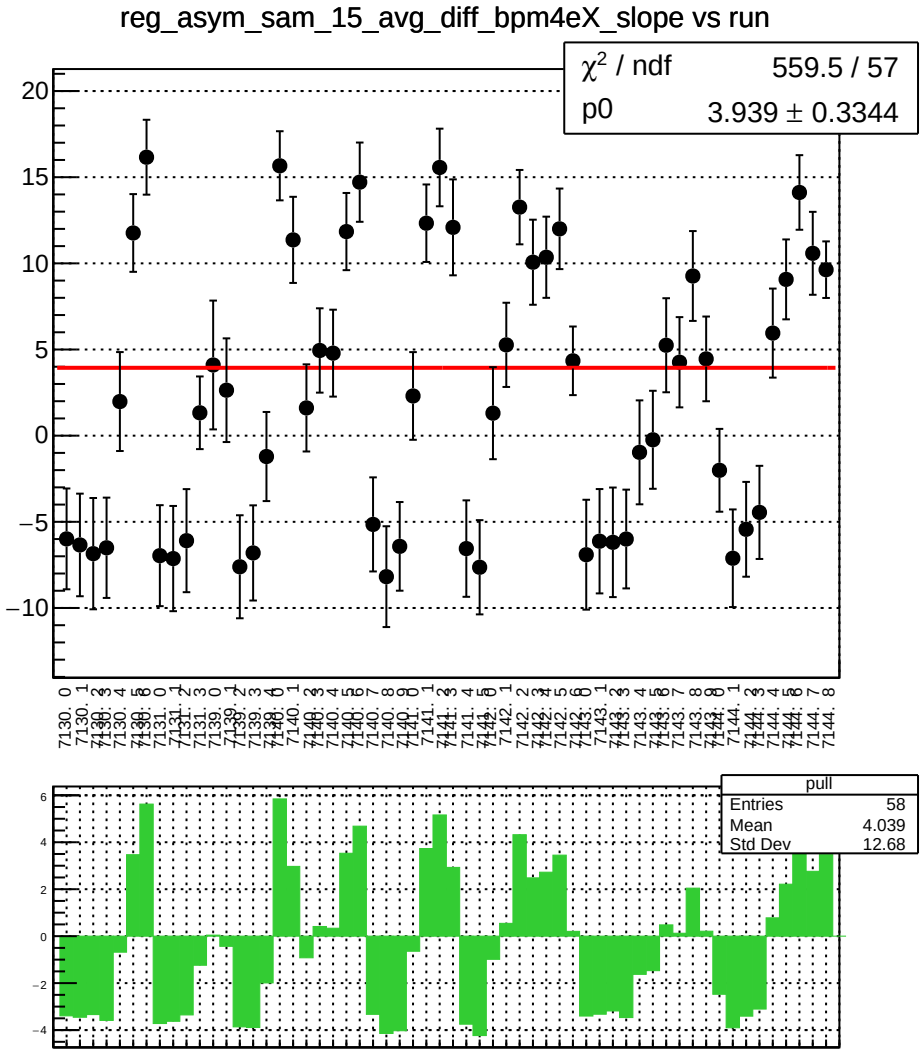

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 42.52 / 57
p0 −19.15 ± 0.03832
pull
Entries 58
Mean −81.07
Std Dev 112.3

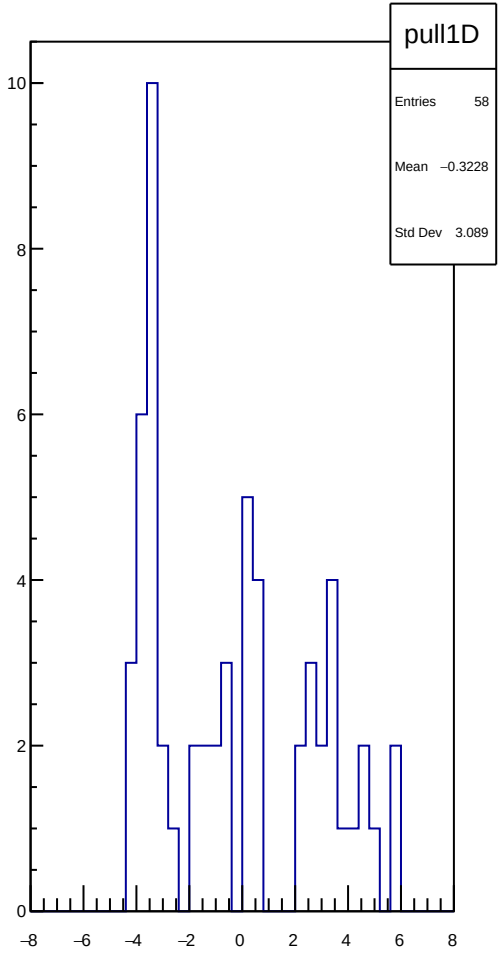

pull1D
Entries 58
Mean 0.03135
Std Dev 0.8557

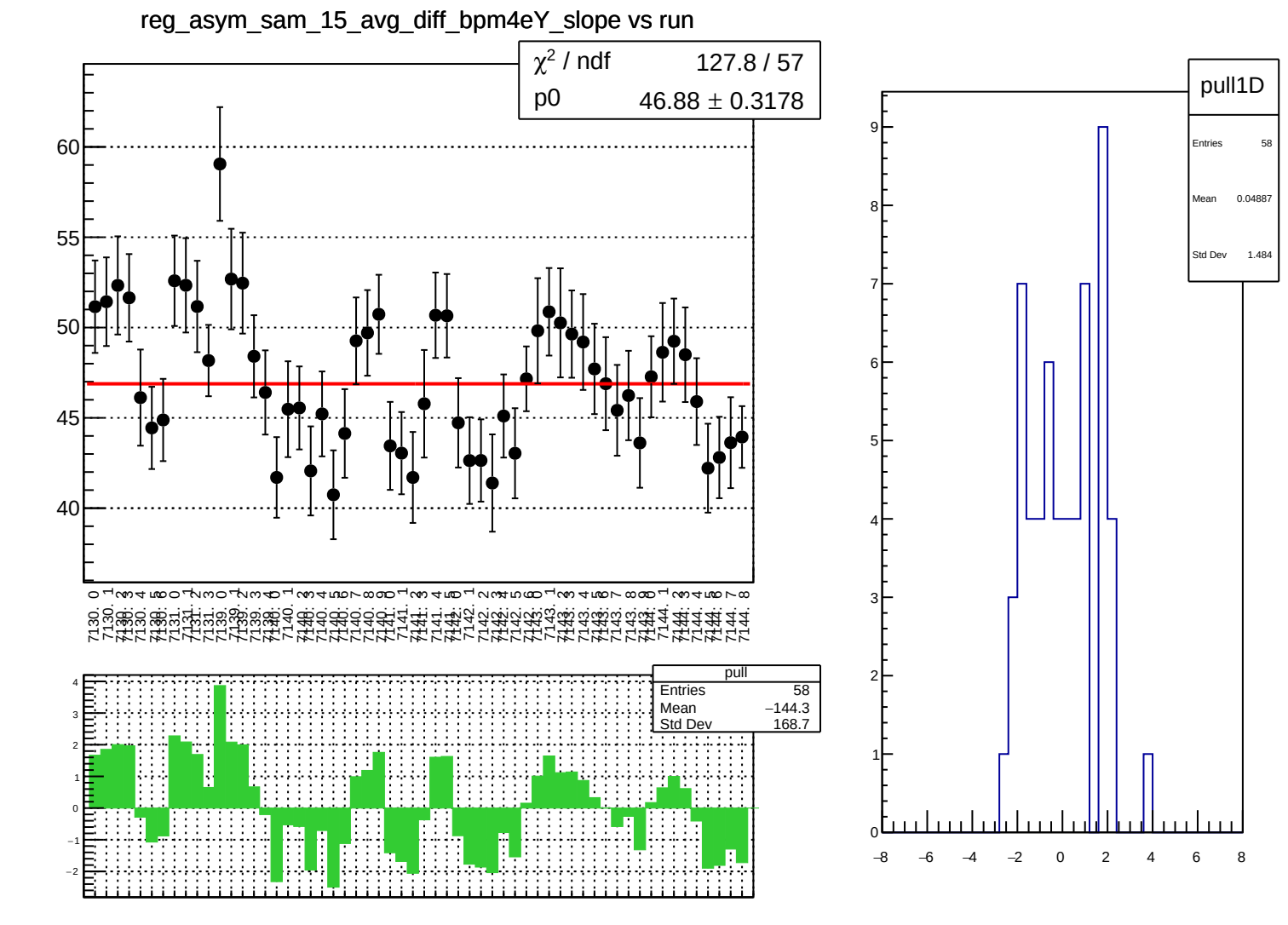

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 567.5 / 57
p0 −10.87 ± 0.3284
pull
Entries 58
Mean 10.95
Std Dev 8.892

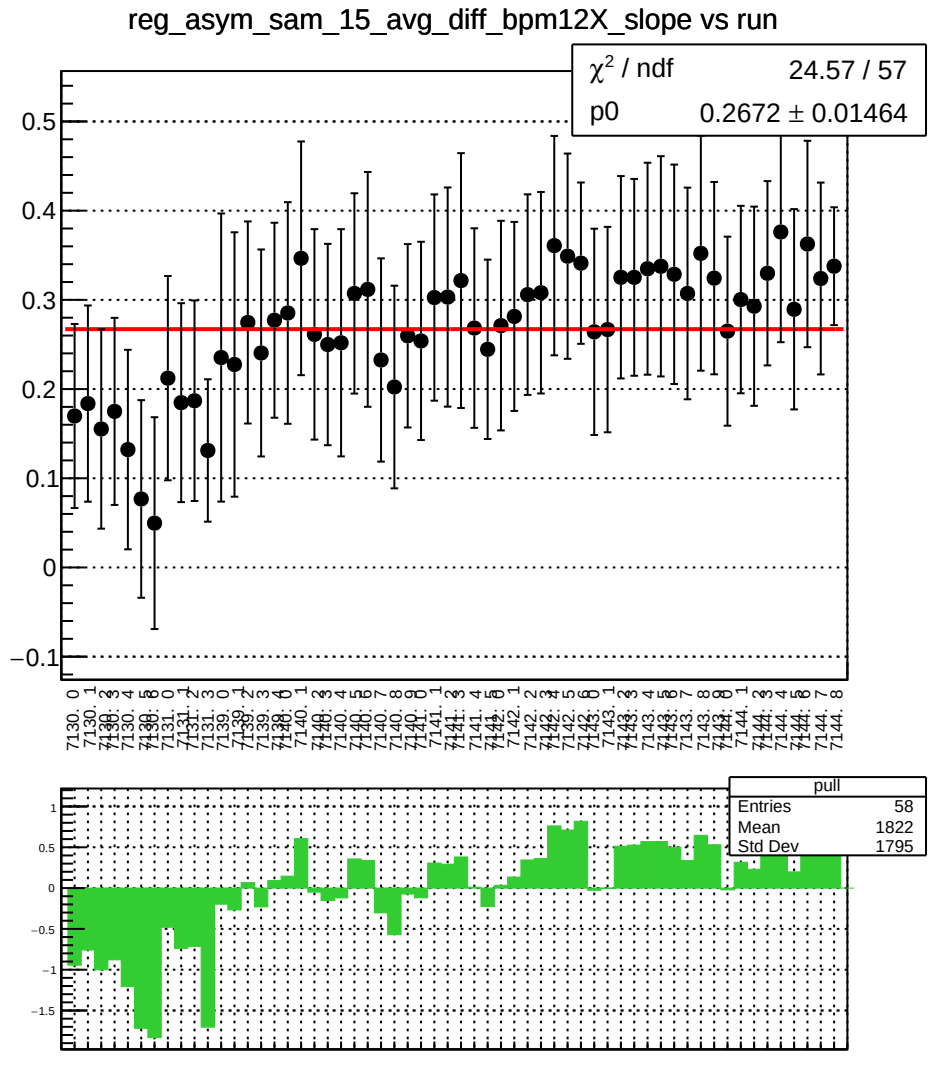

pull1D
Entries 58
Mean 0.3071
Std Dev 3.113

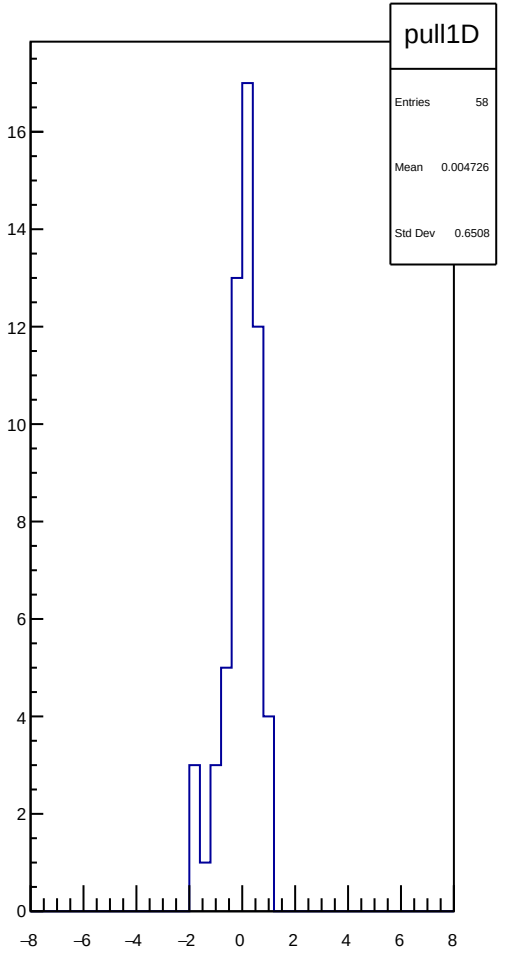

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 217.9 / 57
p0 2.741 ± 0.2971
pull
Entries 58
Mean −636.6
Std Dev 661.2
pull1D
Entries 58
Mean −0.01158
Std Dev 1.938

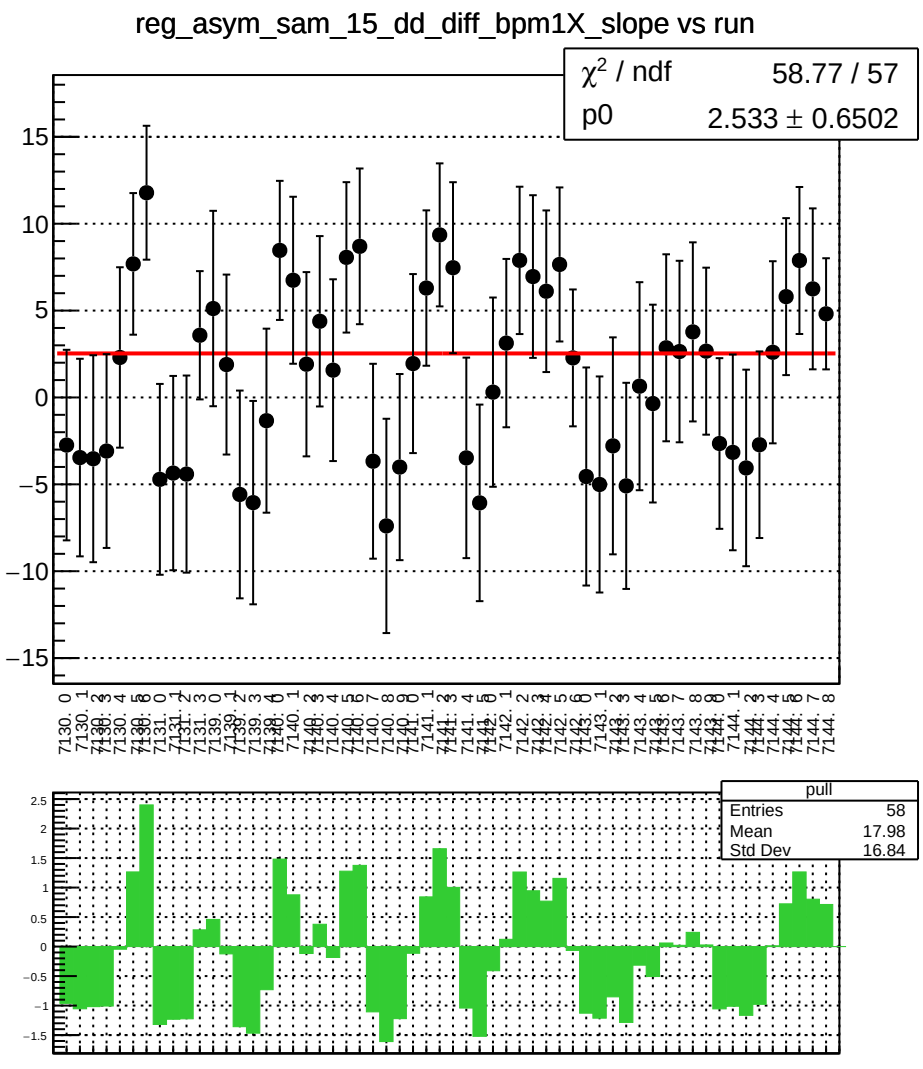

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 559.5 / 57
p0 3.939 ± 0.3344
pull
Entries 58
Mean 4.039
Std Dev 12.68

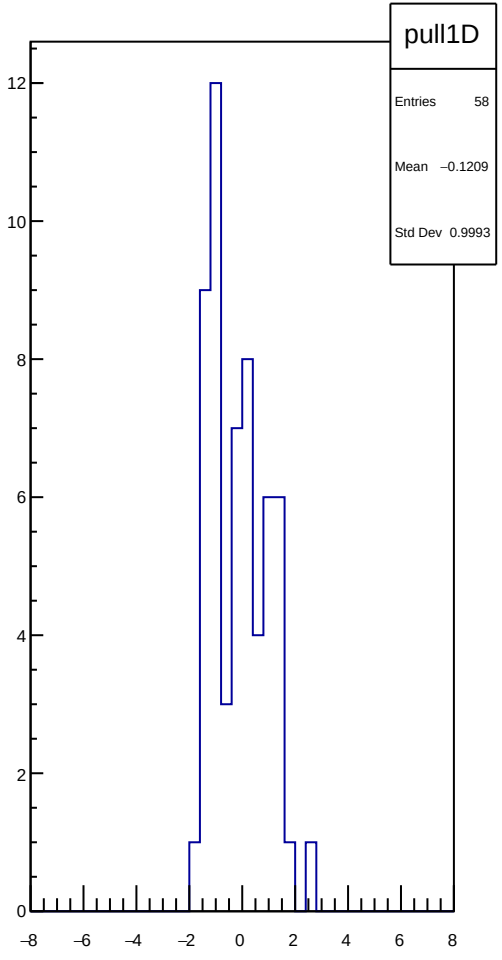

pull1D
Entries 58
Mean −0.3228
Std Dev 3.089

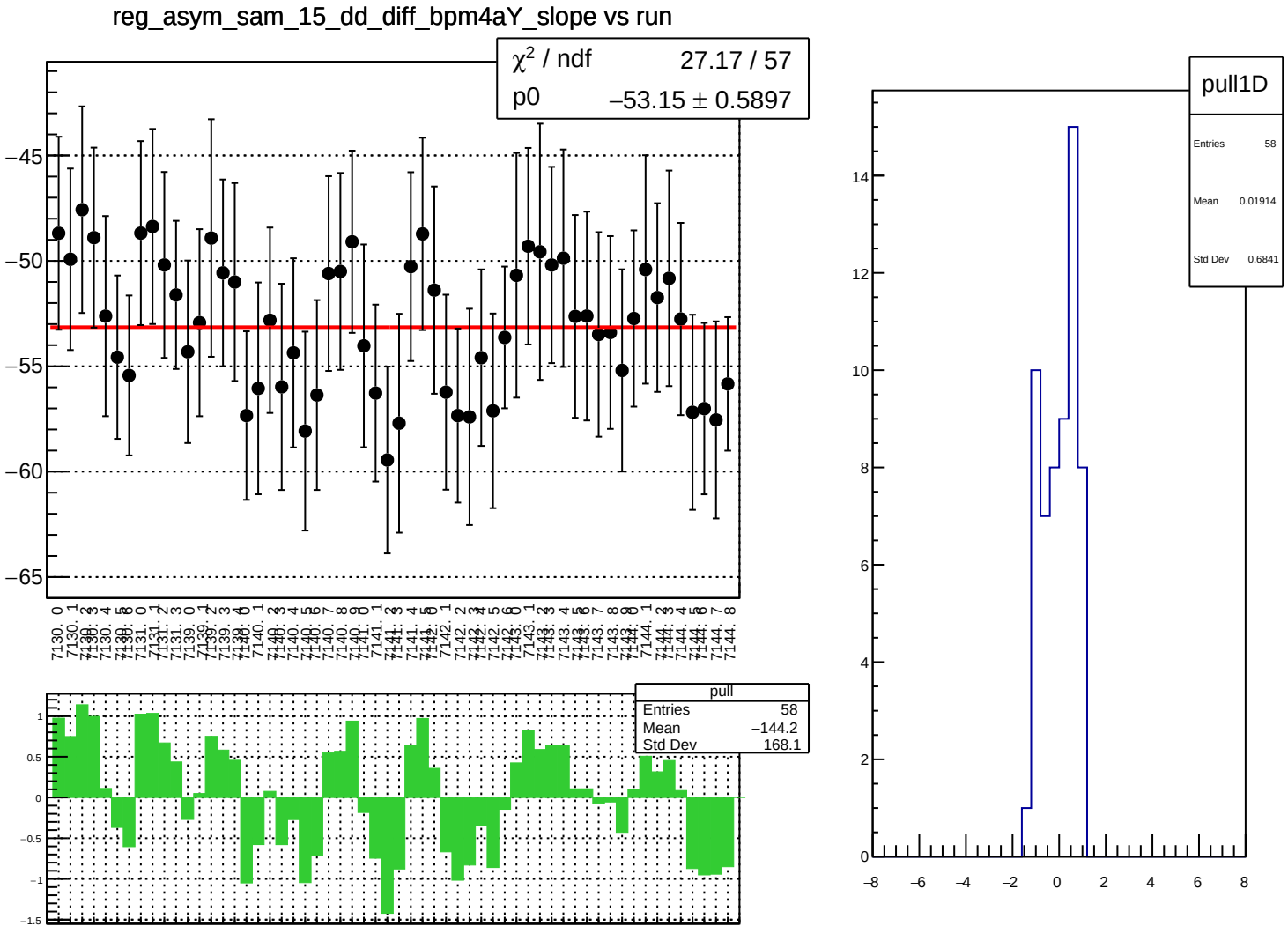

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 127.8 / 57
p0 46.88 ± 0.3178
pull
Entries 58
Mean −144.3
Std Dev 168.7
pull1D
Entries 58
Mean 0.04887
Std Dev 1.484

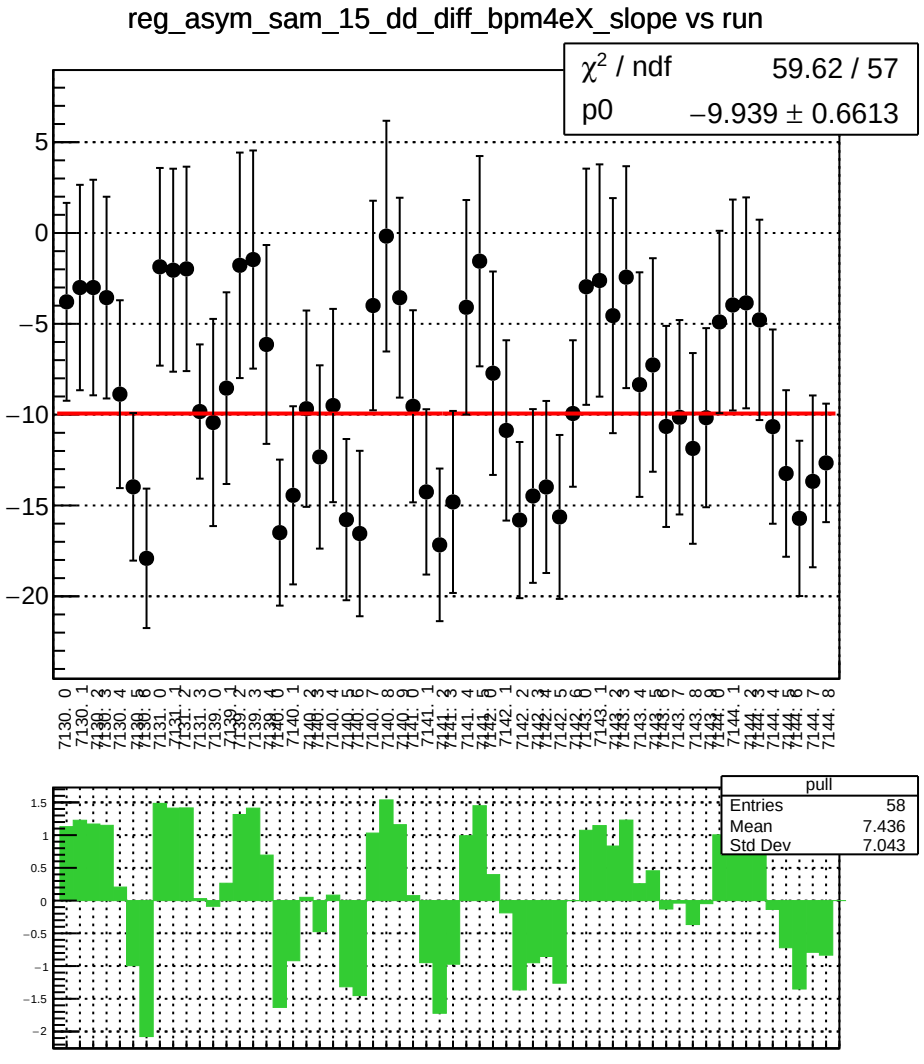

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 24.57 / 57
p0 0.2672 ± 0.01464
pull
Entries 58
Mean 1822
Std Dev 1795

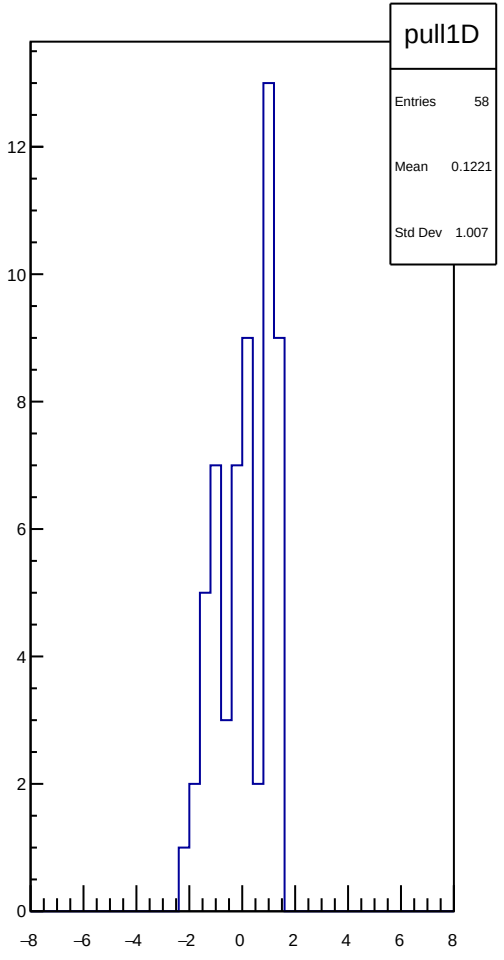

pull1D
Entries 58
Mean 0.004726
Std Dev 0.6508

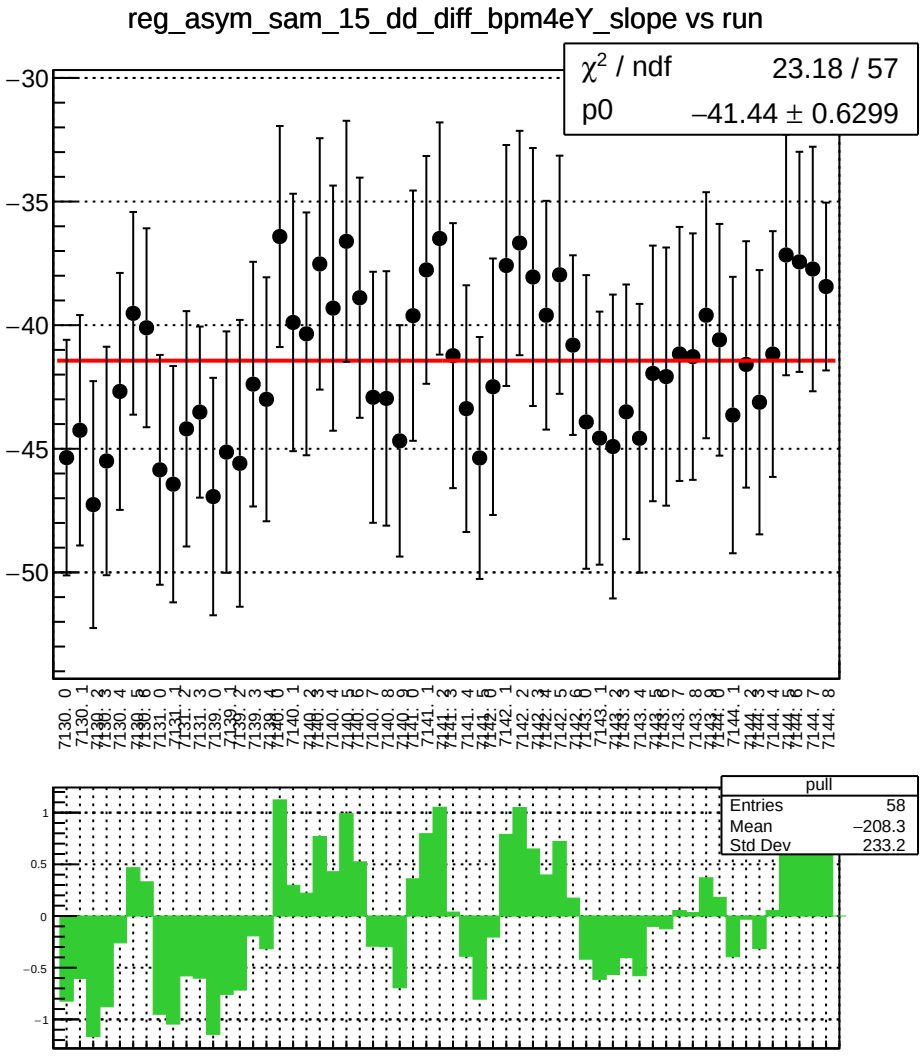

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 58.77 / 57
p0 2.533 ± 0.6502
pull
Entries 58
Mean 17.98
Std Dev 16.84

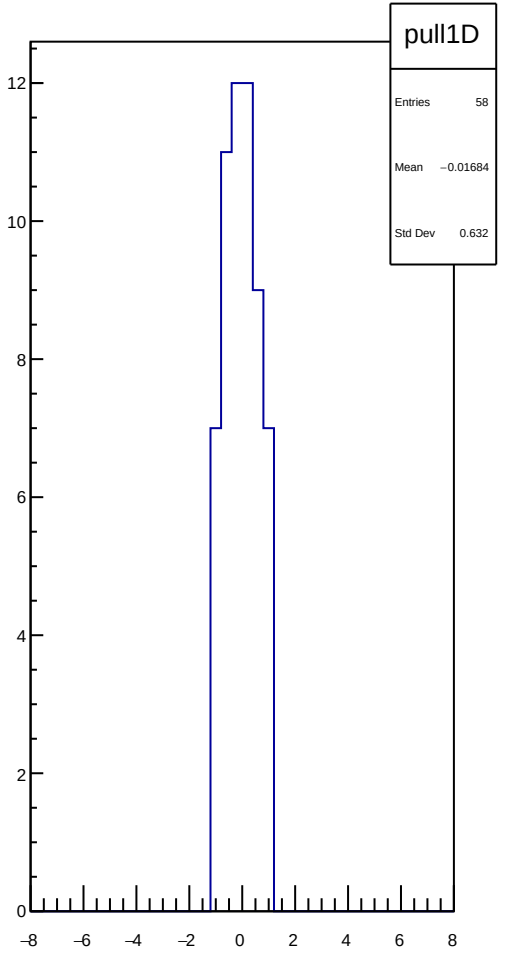

pull1D
Entries 58
Mean −0.1209
Std Dev 0.9993

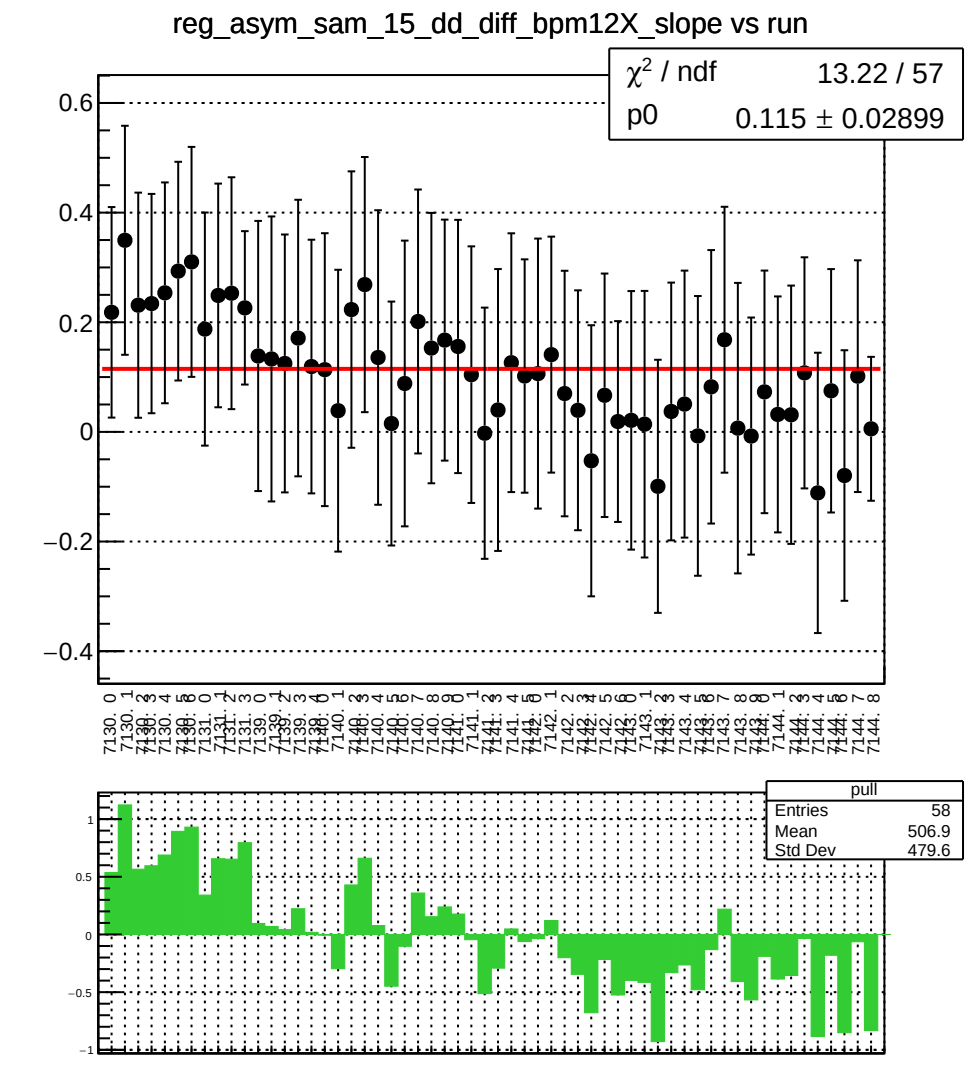

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.17 / 57
p0 −53.15 ± 0.5897
−45
−50
−55
−60
−65
pull
Entries 58
Mean −144.2
Std Dev 168.1
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 58
Mean 0.01914
Std Dev 0.6841
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

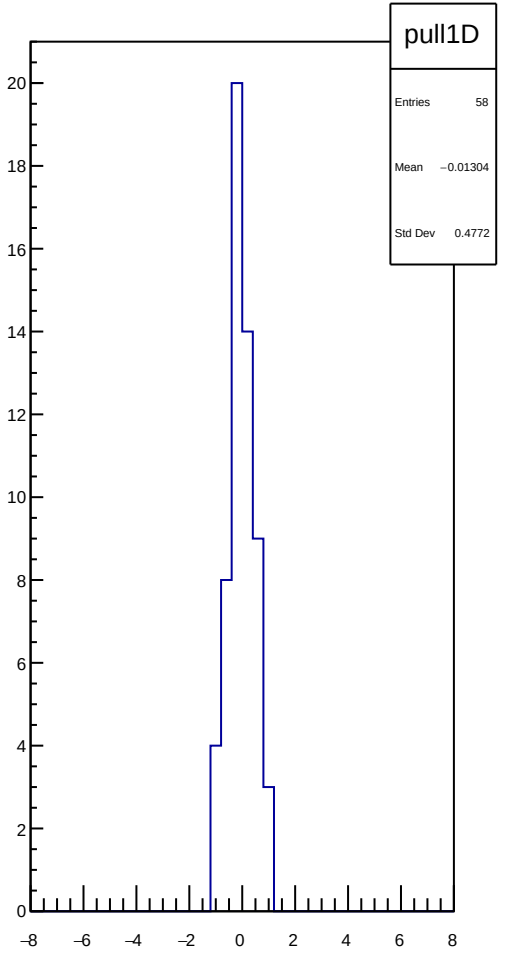

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 59.62 / 57
p0 −9.939 ± 0.6613
pull
Entries 58
Mean 7.436
Std Dev 7.043

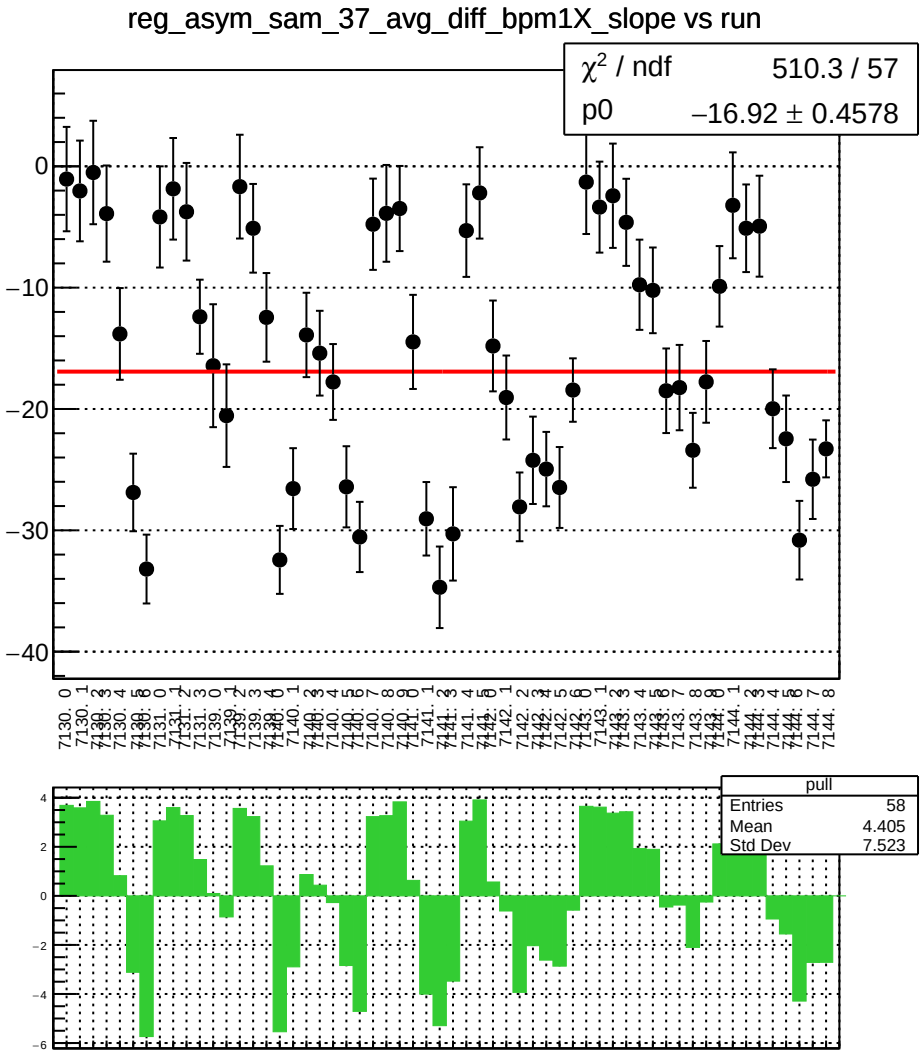

pull1D
Entries 58
Mean 0.1221
Std Dev 1.007

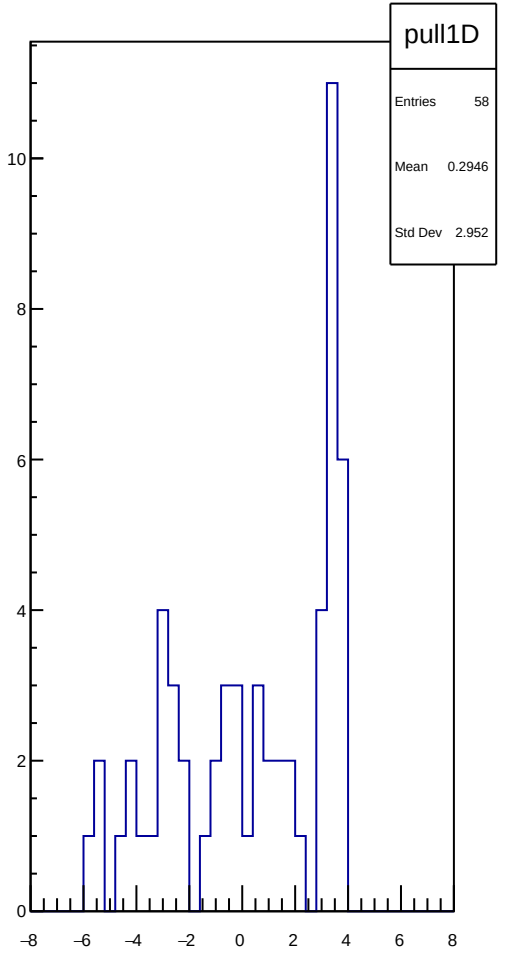

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.18 / 57
p0 −41.44 ± 0.6299
pull
Entries 58
Mean −208.3
Std Dev 233.2

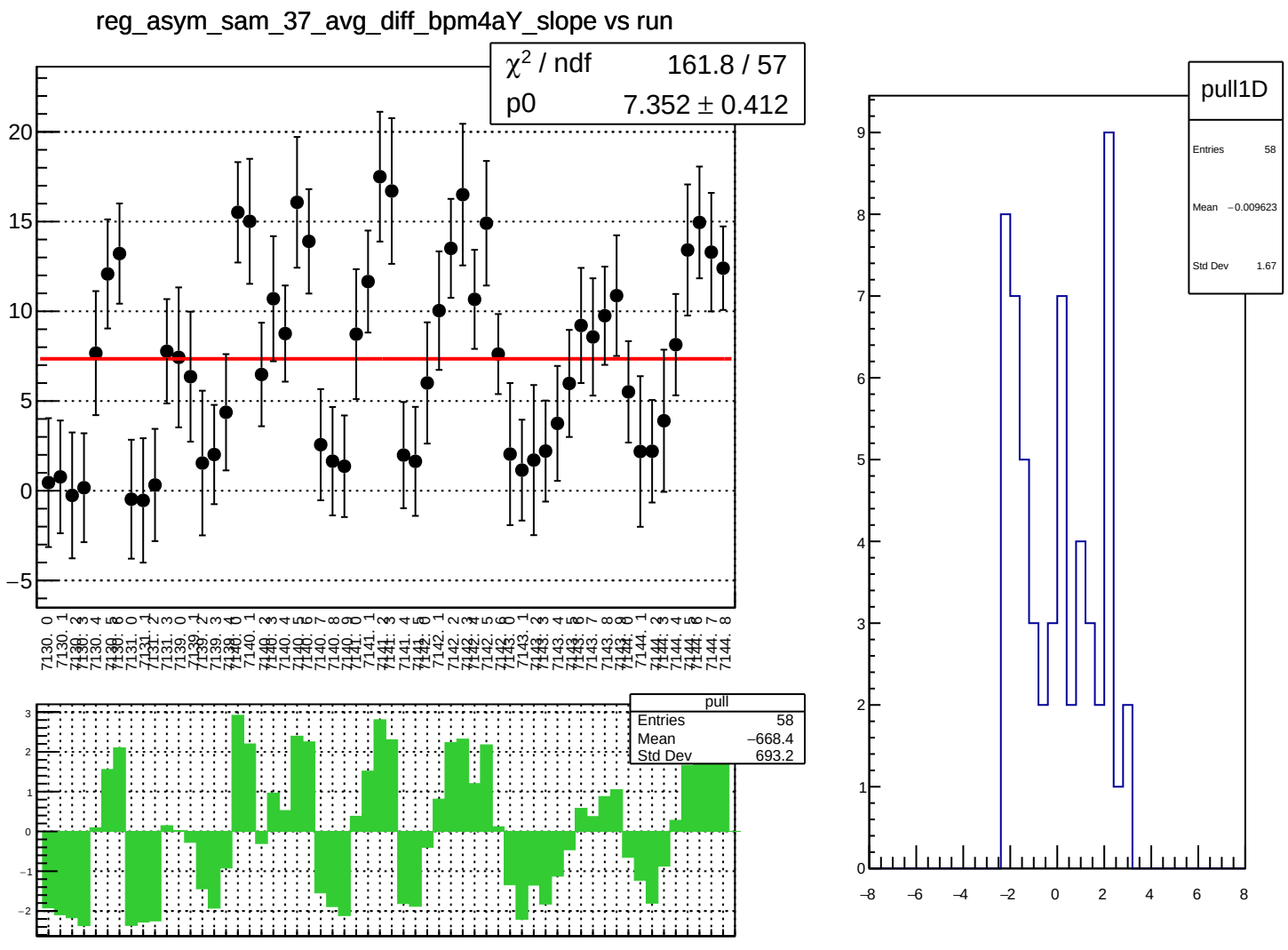

pull1D
Entries 58
Mean −0.01684
Std Dev 0.632

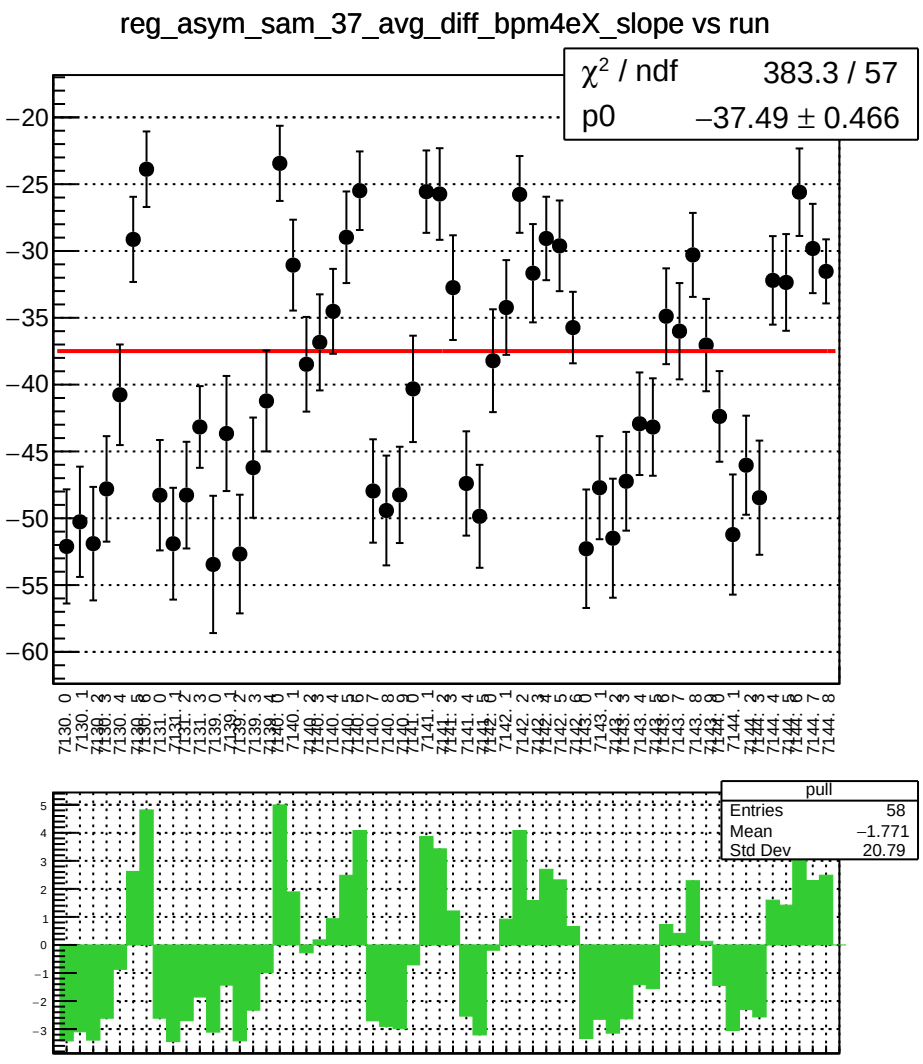

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 13.22 / 57
p0 0.115 ± 0.02899
pull
Entries 58
Mean 506.9
Std Dev 479.6

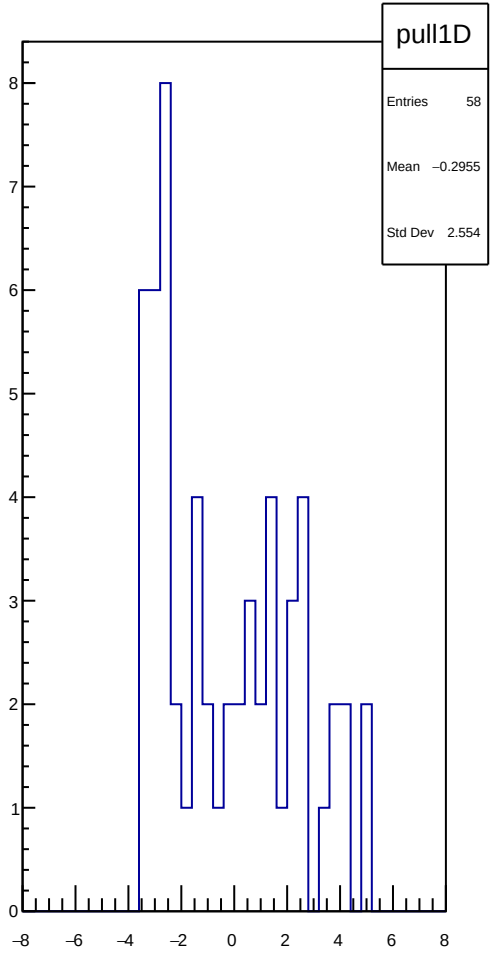

pull1D
Entries 58
Mean −0.01304
Std Dev 0.4772

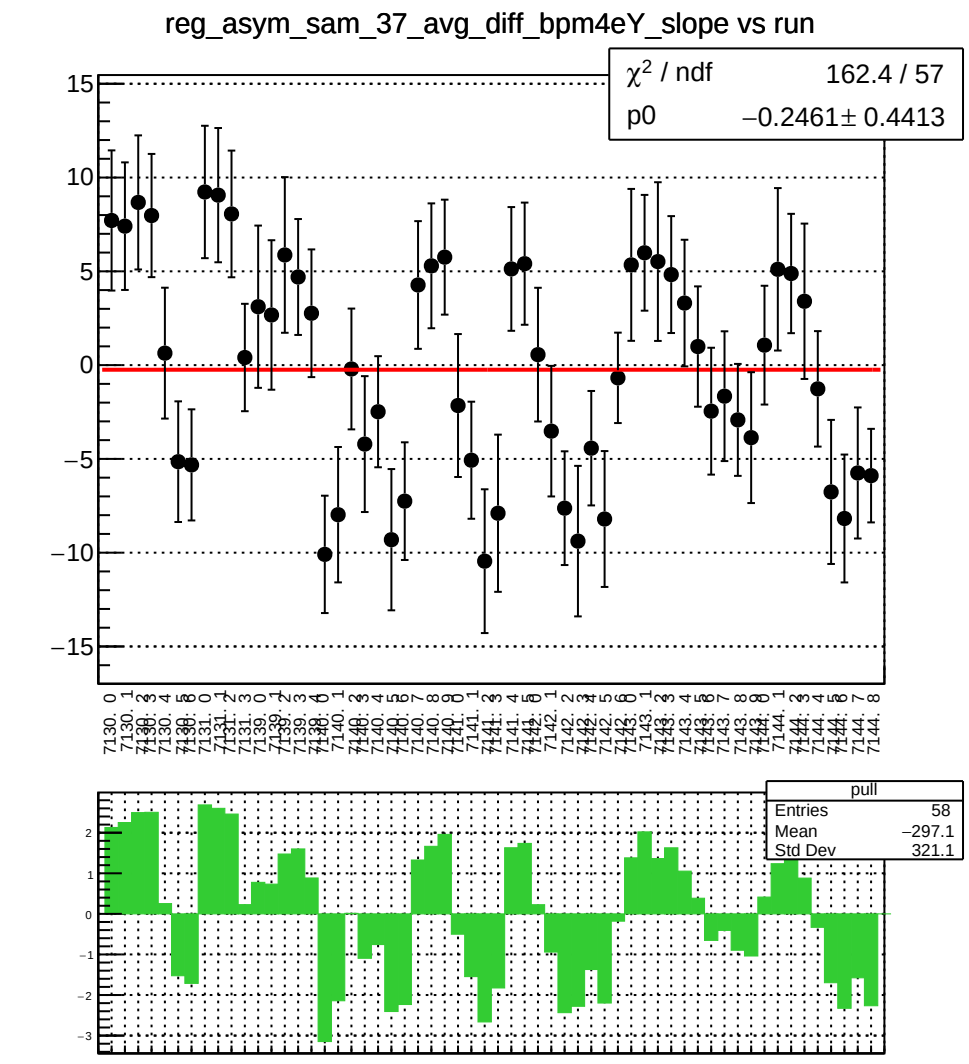

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 510.3 / 57
p0 −16.92 ± 0.4578
pull
Entries 58
Mean 4.405
Std Dev 7.523

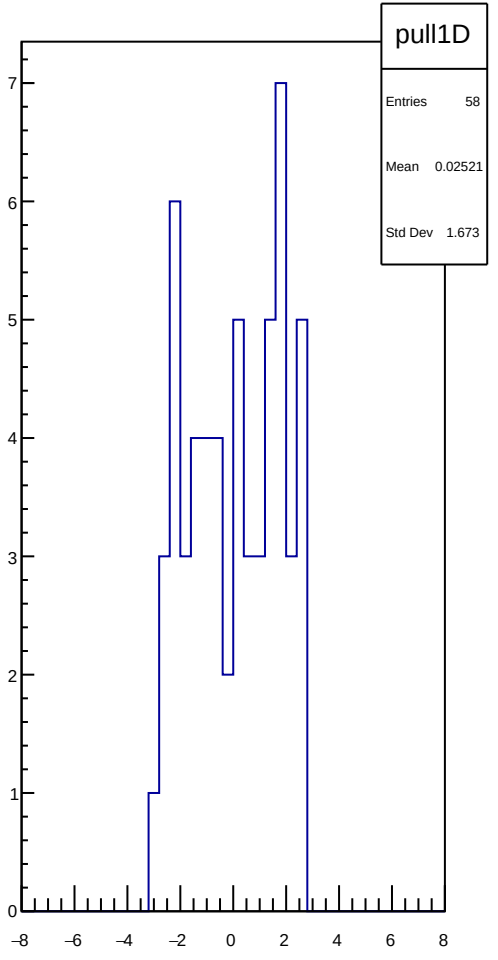

pull1D
Entries 58
Mean 0.2946
Std Dev 2.952

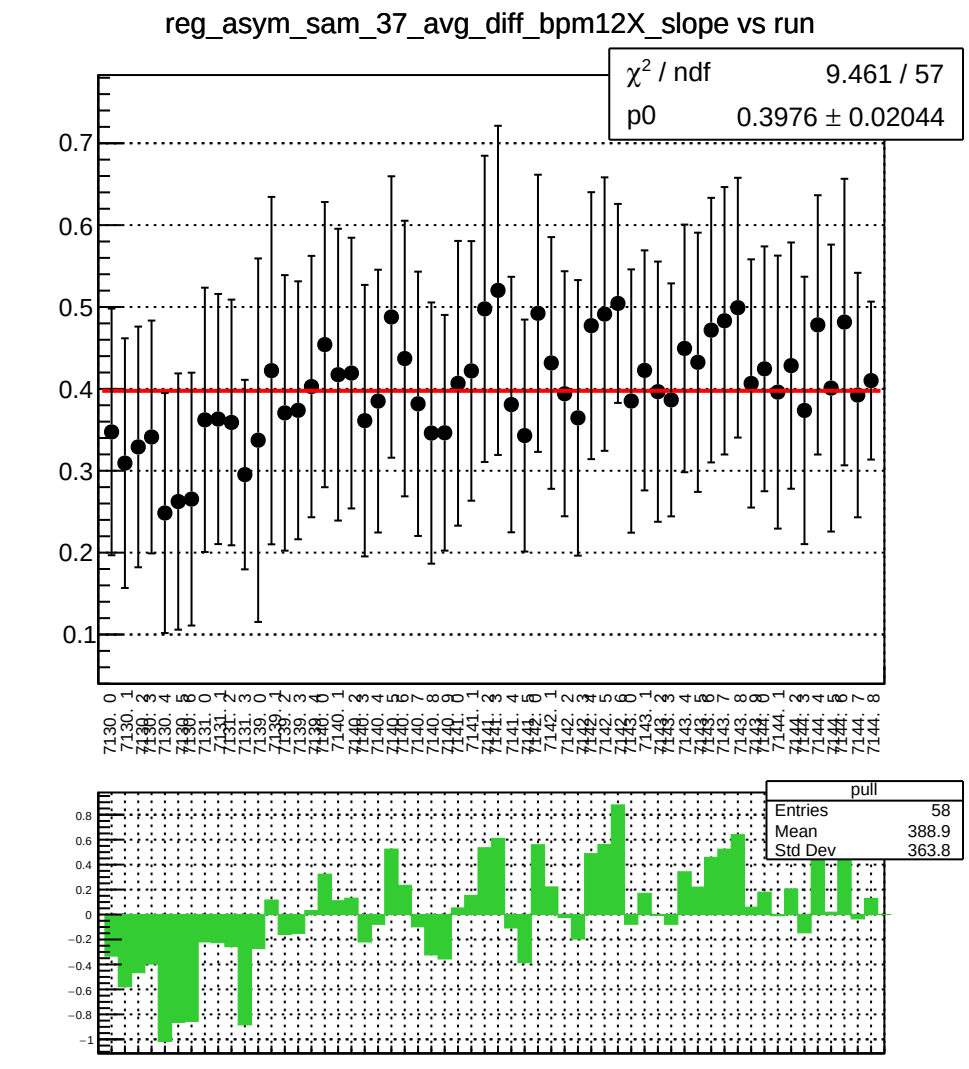

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 161.8 / 57
p0 7.352 ± 0.412
pull
Entries 58
Mean −668.4
Std Dev 693.2
pull1D
Entries 58
Mean −0.009623
Std Dev 1.67

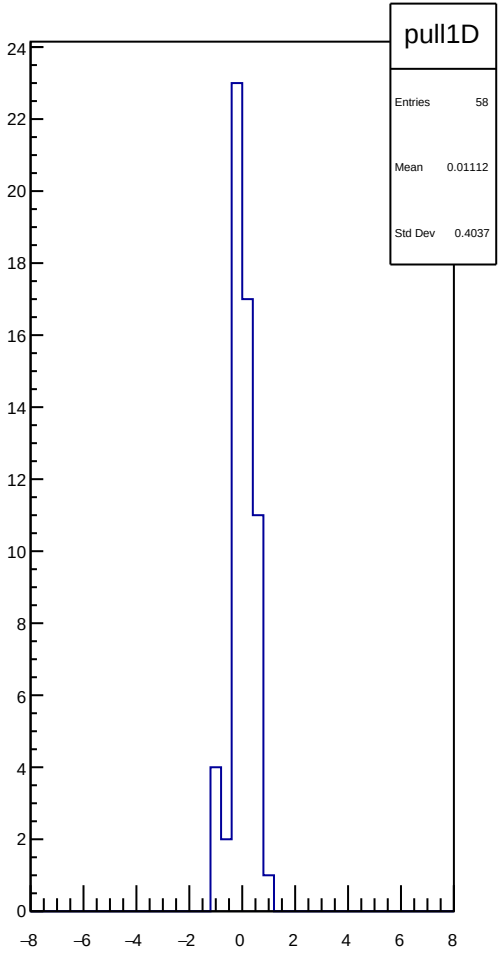

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 383.3 / 57
p0 −37.49 ± 0.466
pull
Entries 58
Mean −1.771
Std Dev 20.79

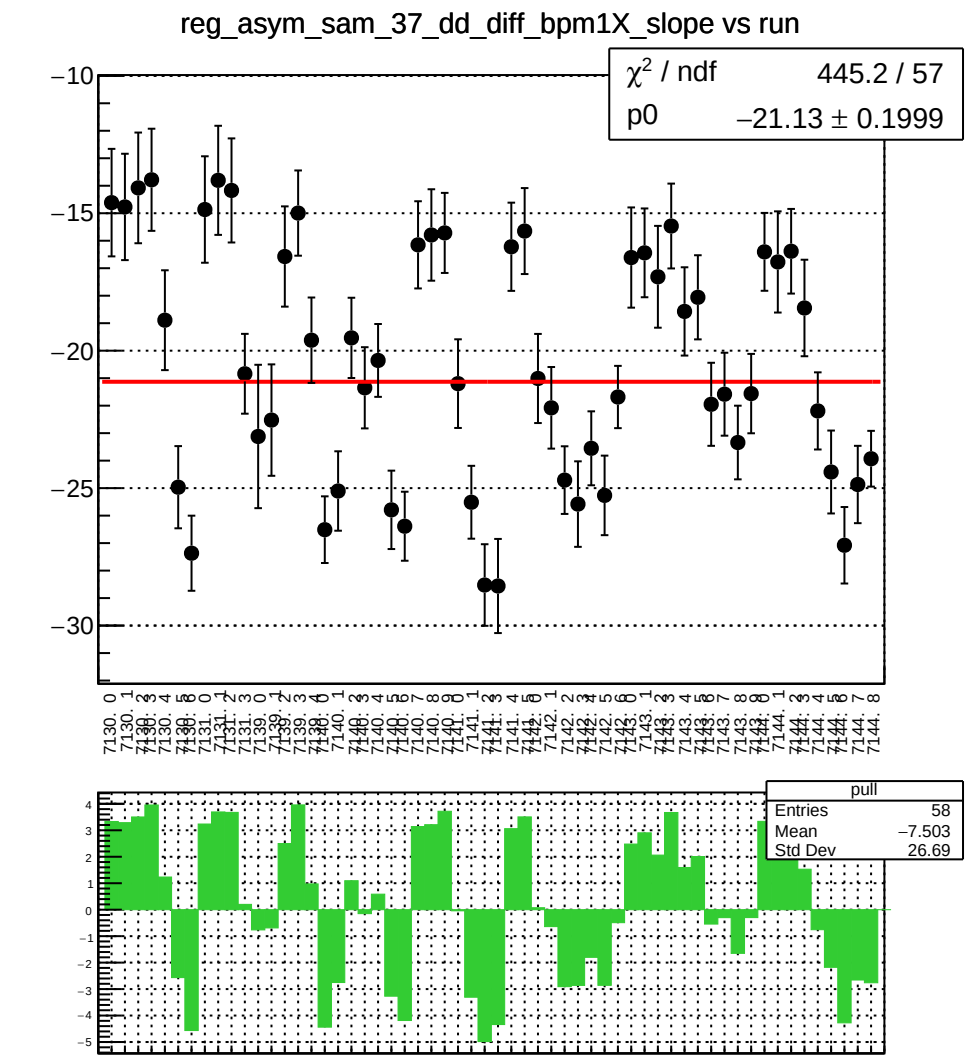

pull1D
Entries 58
Mean −0.2955
Std Dev 2.554

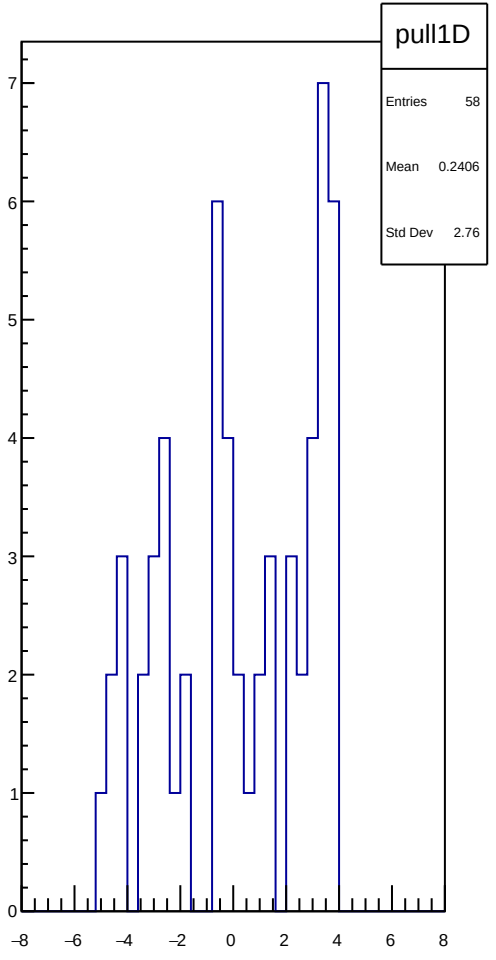

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 162.4 / 57
p0 −0.2461± 0.4413
pull
Entries 58
Mean −297.1
Std Dev 321.1

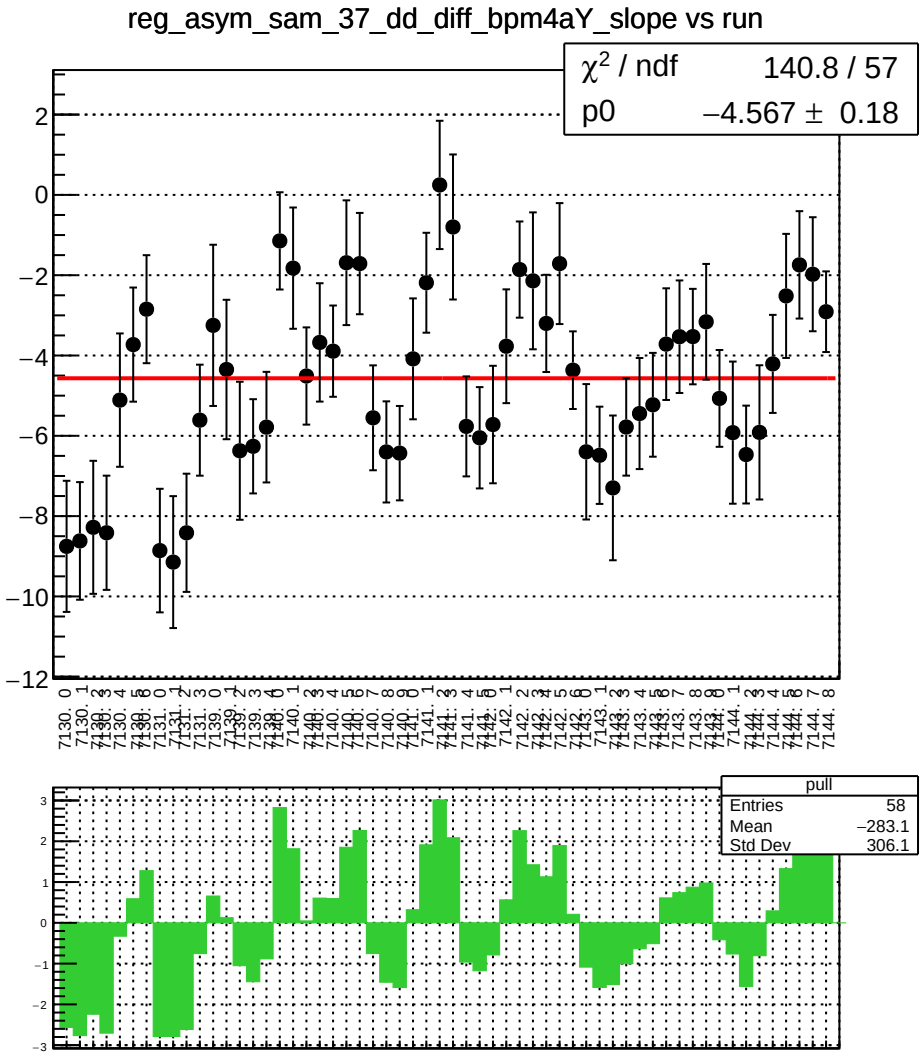

pull1D
Entries 58
Mean 0.02521
Std Dev 1.673

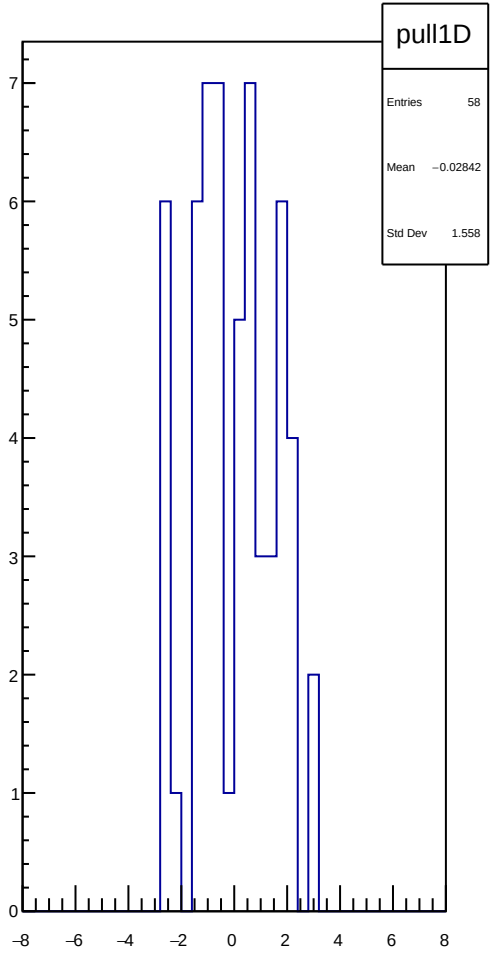

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 9.461 / 57
p0 0.3976 ± 0.02044
pull
Entries 58
Mean 388.9
Std Dev 363.8

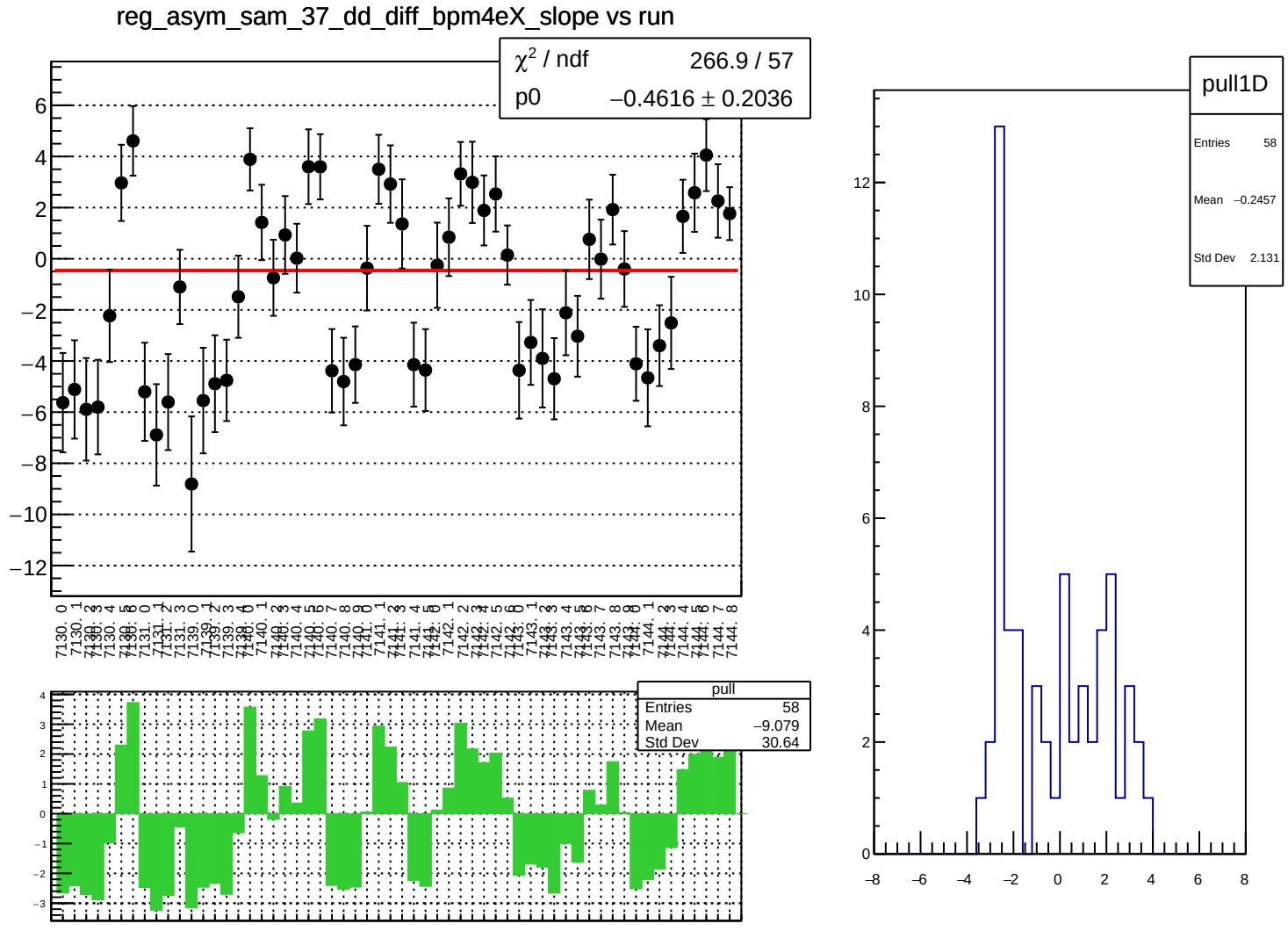

pull1D
Entries 58
Mean 0.01112
Std Dev 0.4037

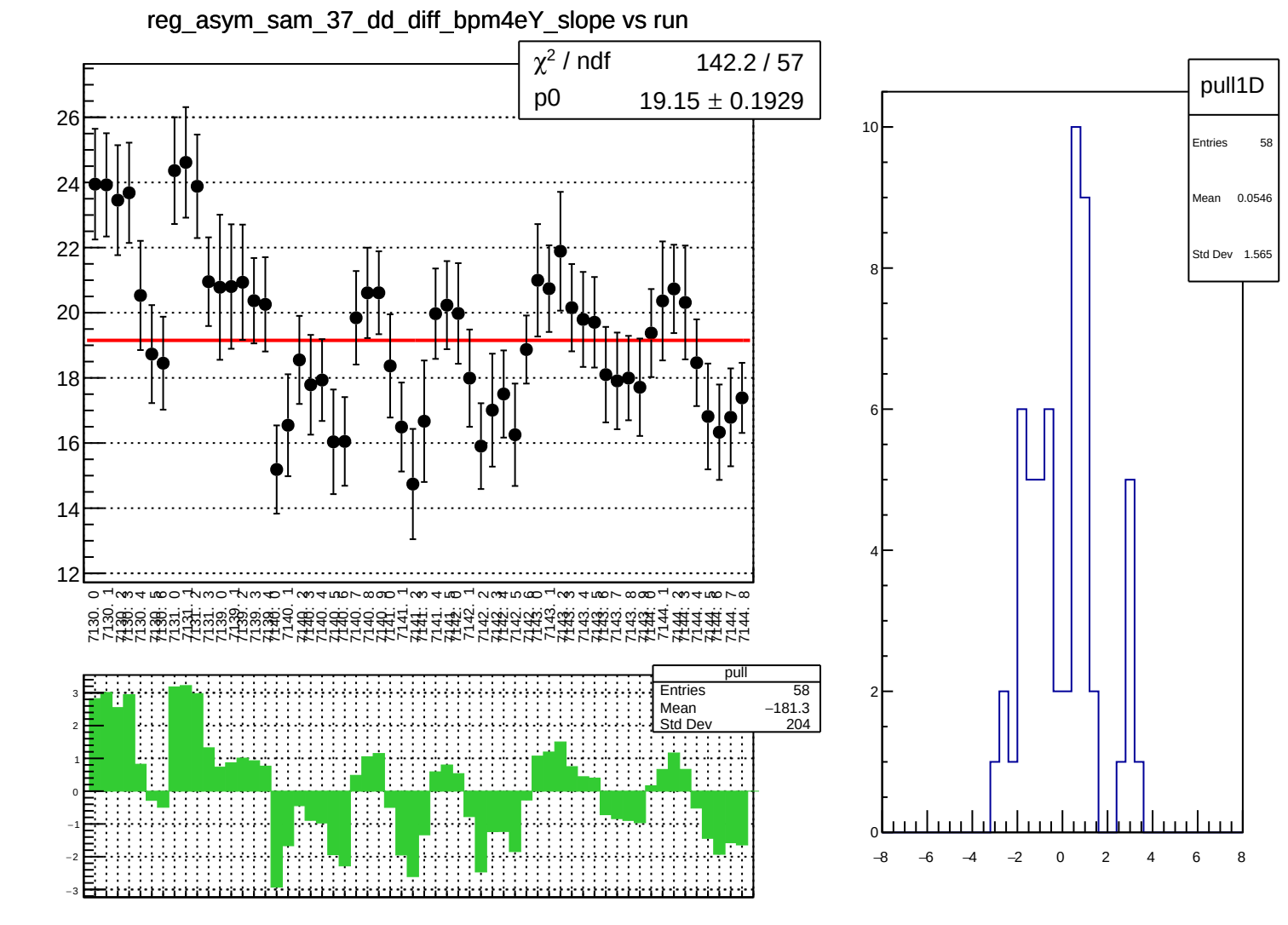

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 445.2 / 57
p0 −21.13 ± 0.1999
−10
−15
−20
−25
−30
pull
Entries 58
Mean −7.503
Std Dev 26.69

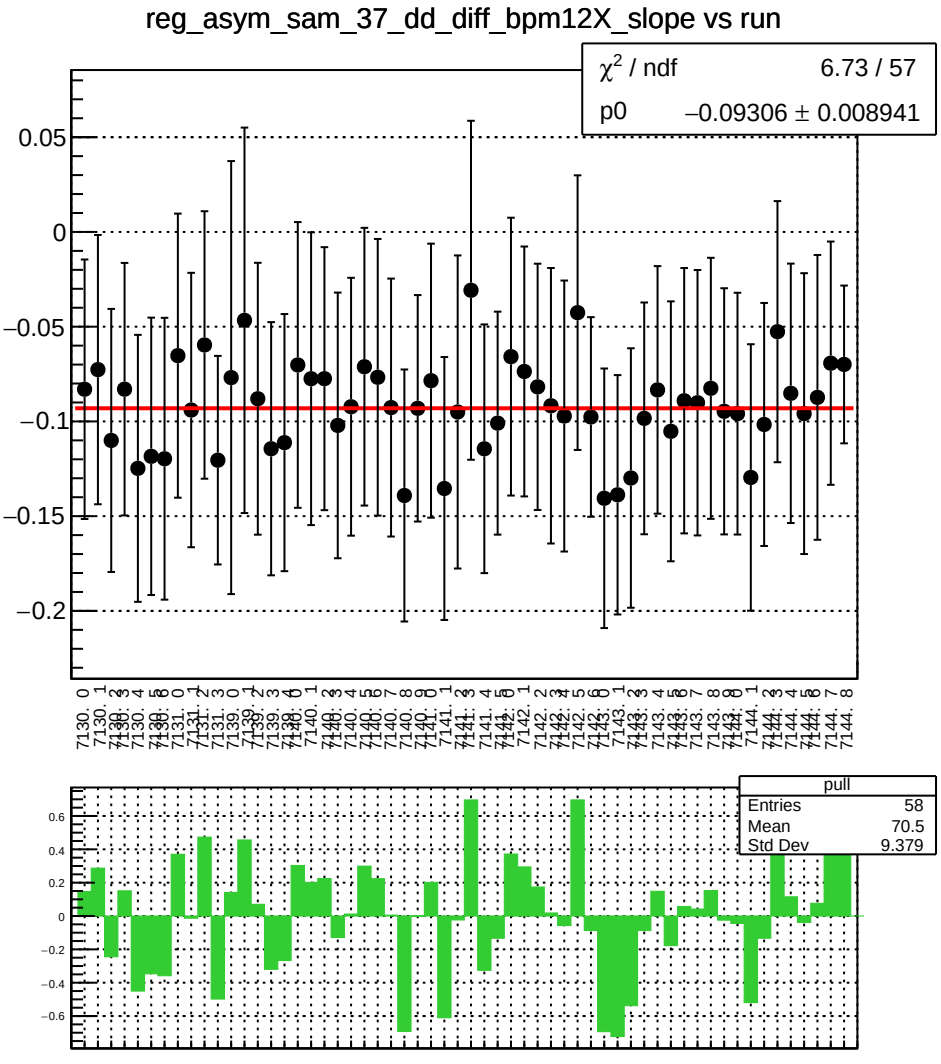

pull1D
Entries 58
Mean 0.2406
Std Dev 2.76

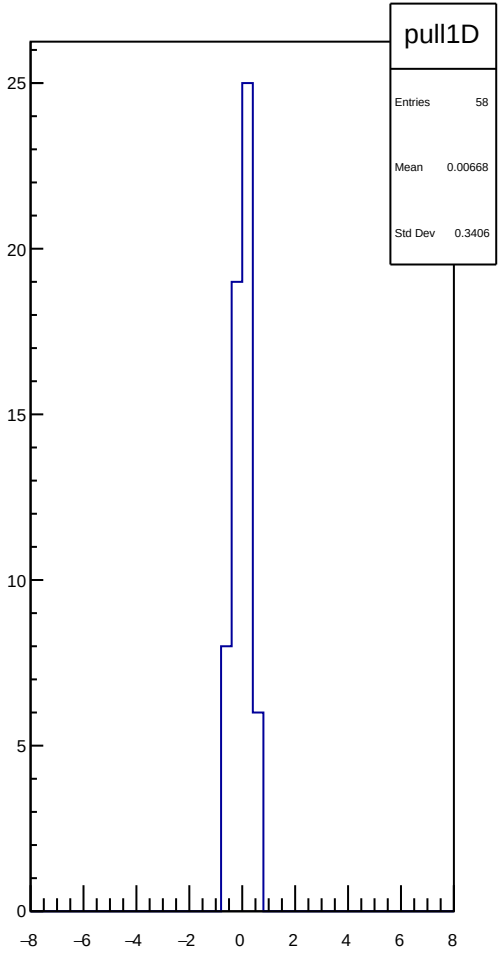

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 140.8 / 57
p0 −4.567 ± 0.18
pull
Entries 58
Mean −283.1
Std Dev 306.1

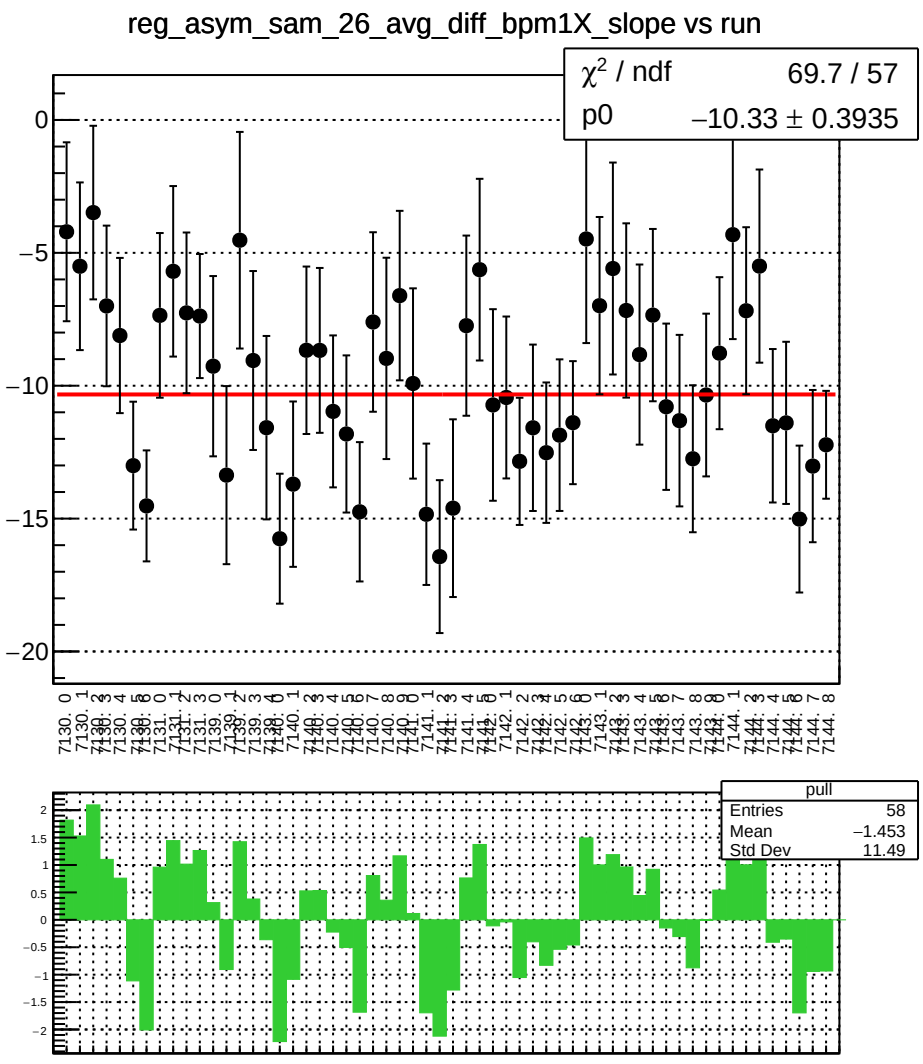

pull1D
Entries 58
Mean −0.02842
Std Dev 1.558

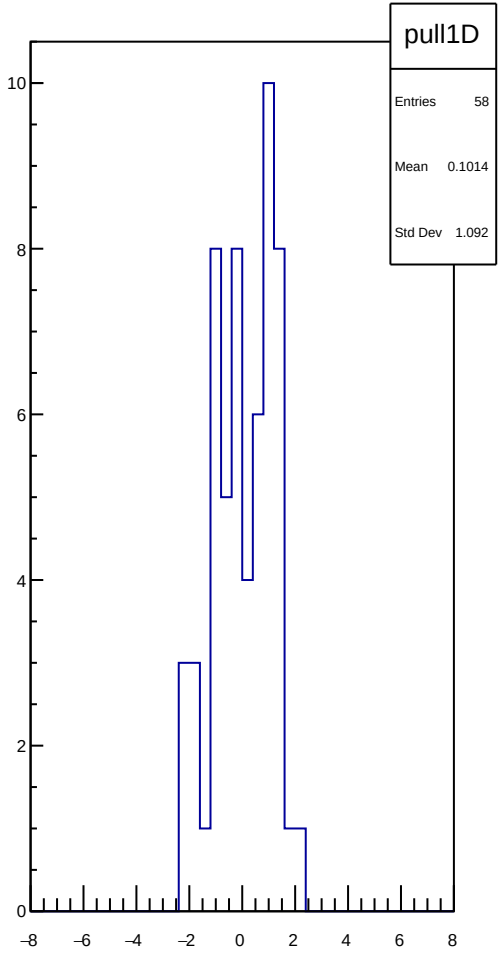

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 266.9 / 57
p0 −0.4616 ± 0.2036
pull
Entries 58
Mean −9.079
Std Dev 30.64
pull1D
Entries 58
Mean −0.2457
Std Dev 2.131

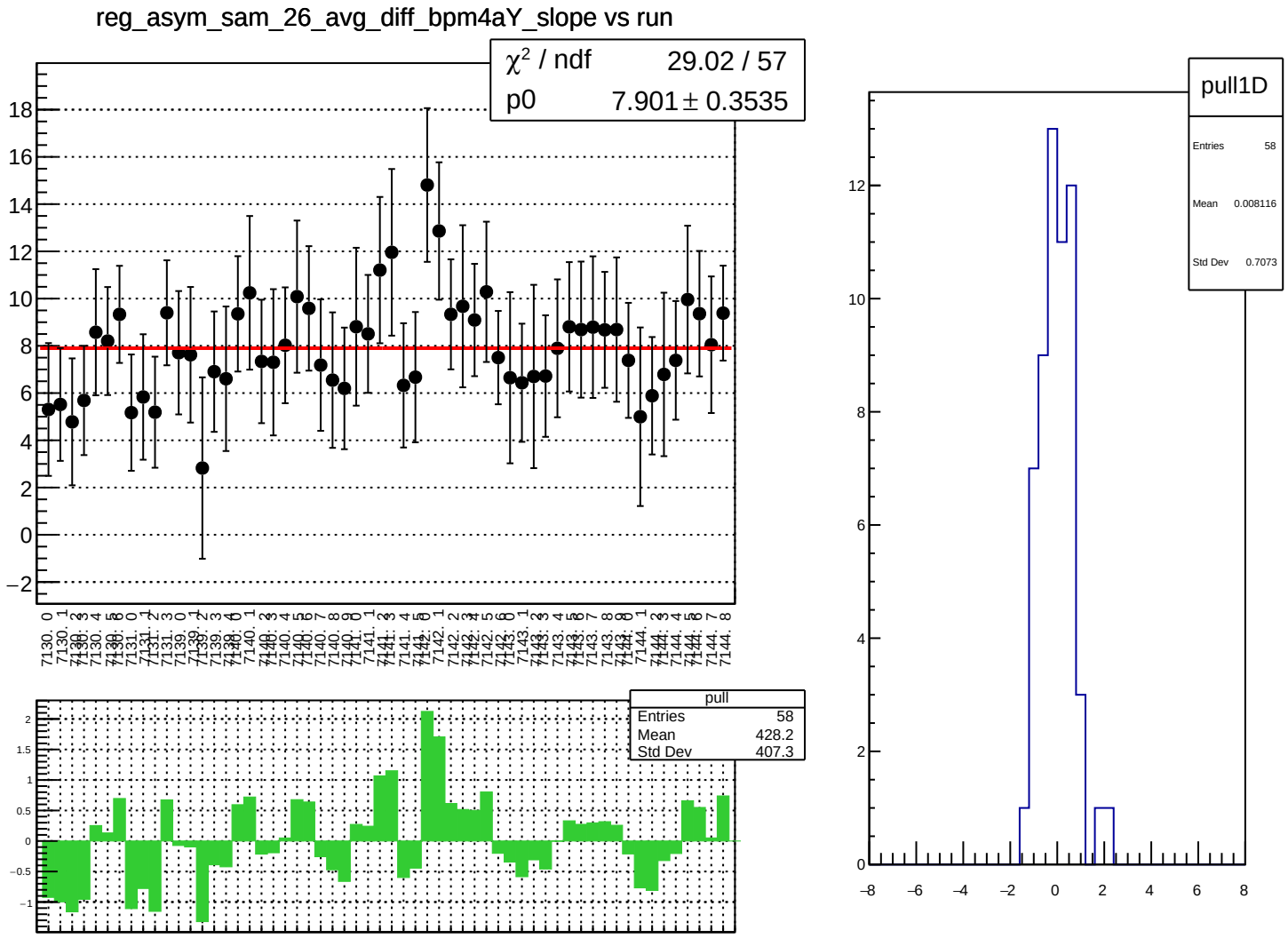

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 142.2 / 57
p0 19.15 ± 0.1929
pull
Entries 58
Mean −181.3
Std Dev 204
pull1D
Entries 58
Mean 0.0546
Std Dev 1.565

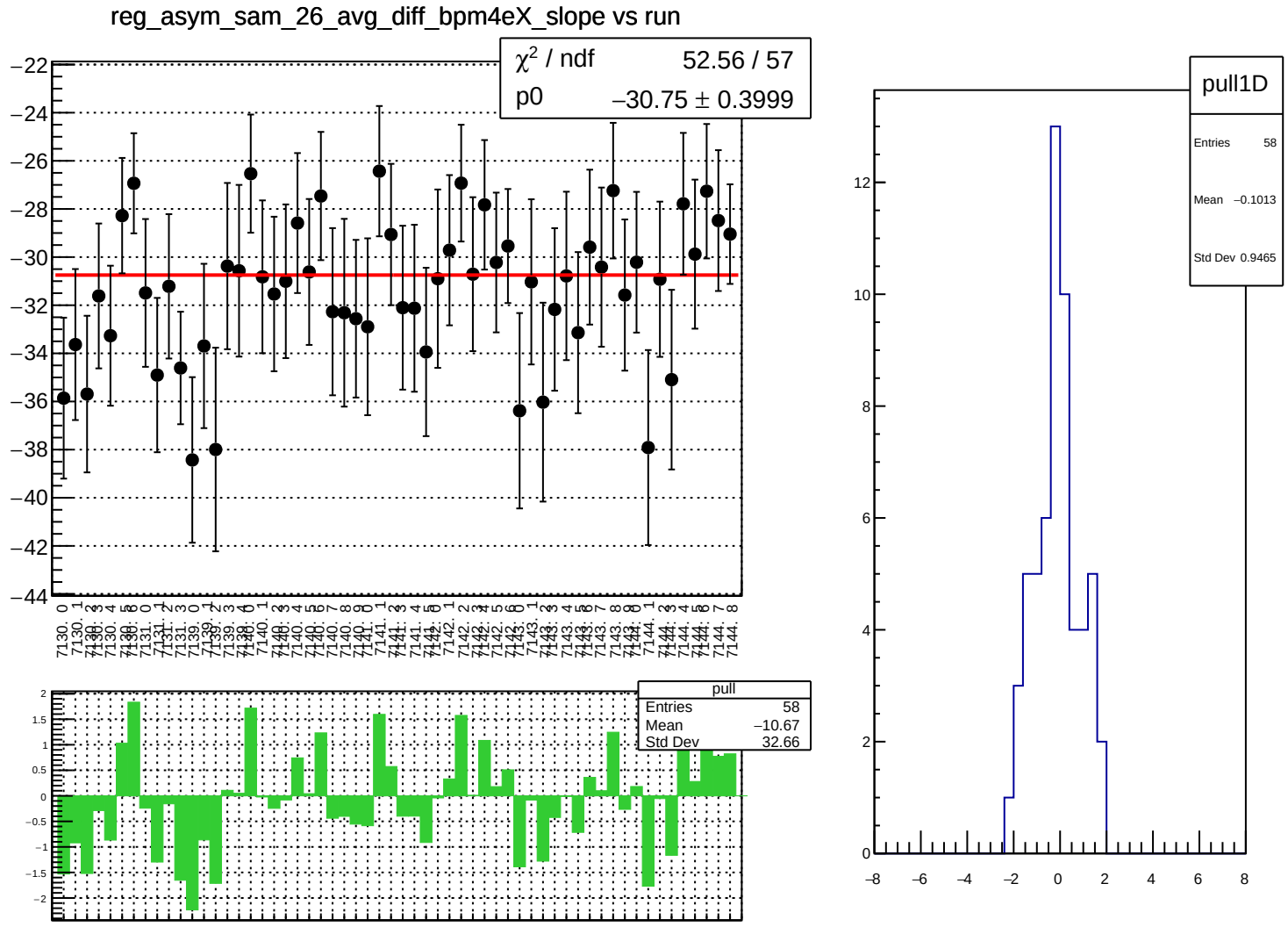

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 6.73 / 57
p0 −0.09306 ± 0.008941
pull
Entries 58
Mean 70.5
Std Dev 9.379

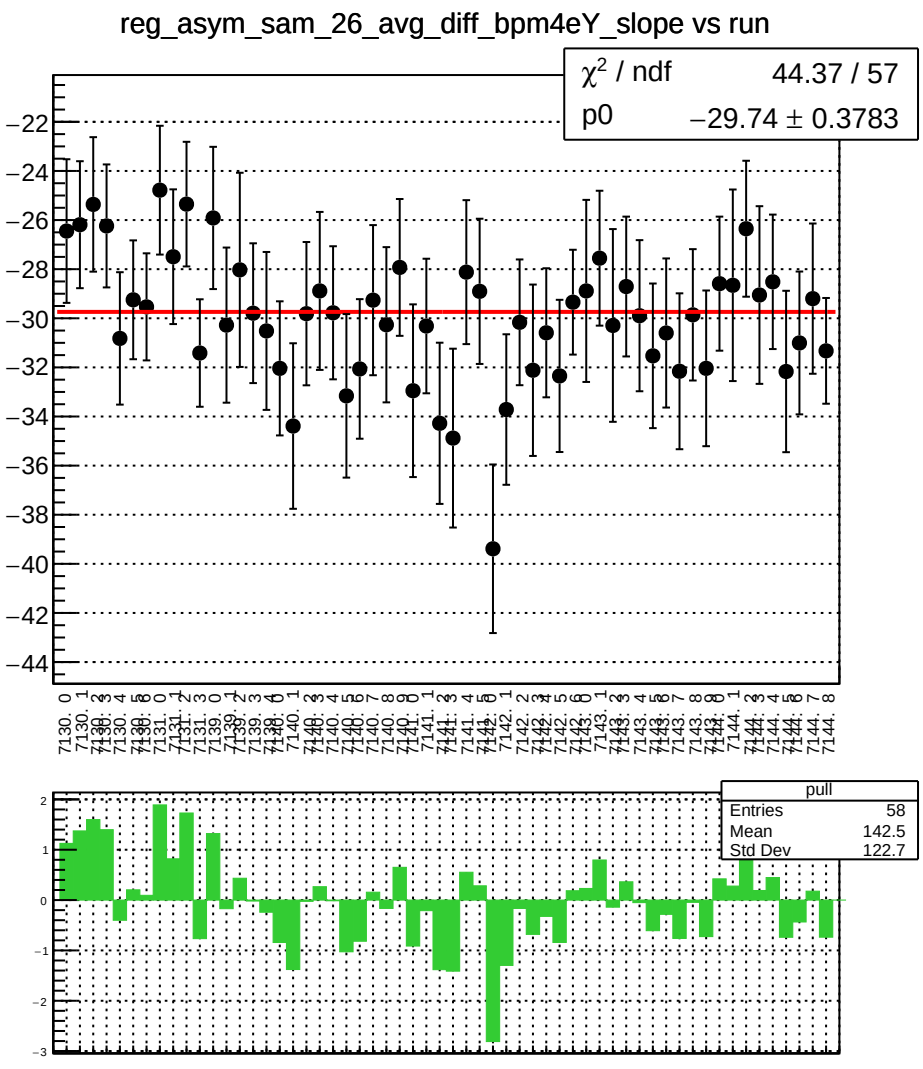

pull1D
Entries 58
Mean 0.00668
Std Dev 0.3406

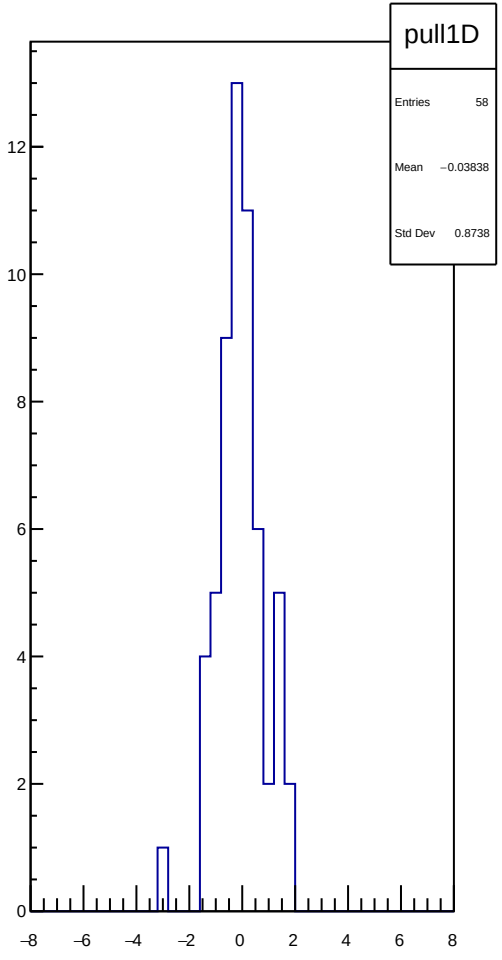

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 69.7 / 57
p0 −10.33 ± 0.3935
pull
Entries 58
Mean −1.453
Std Dev 11.49

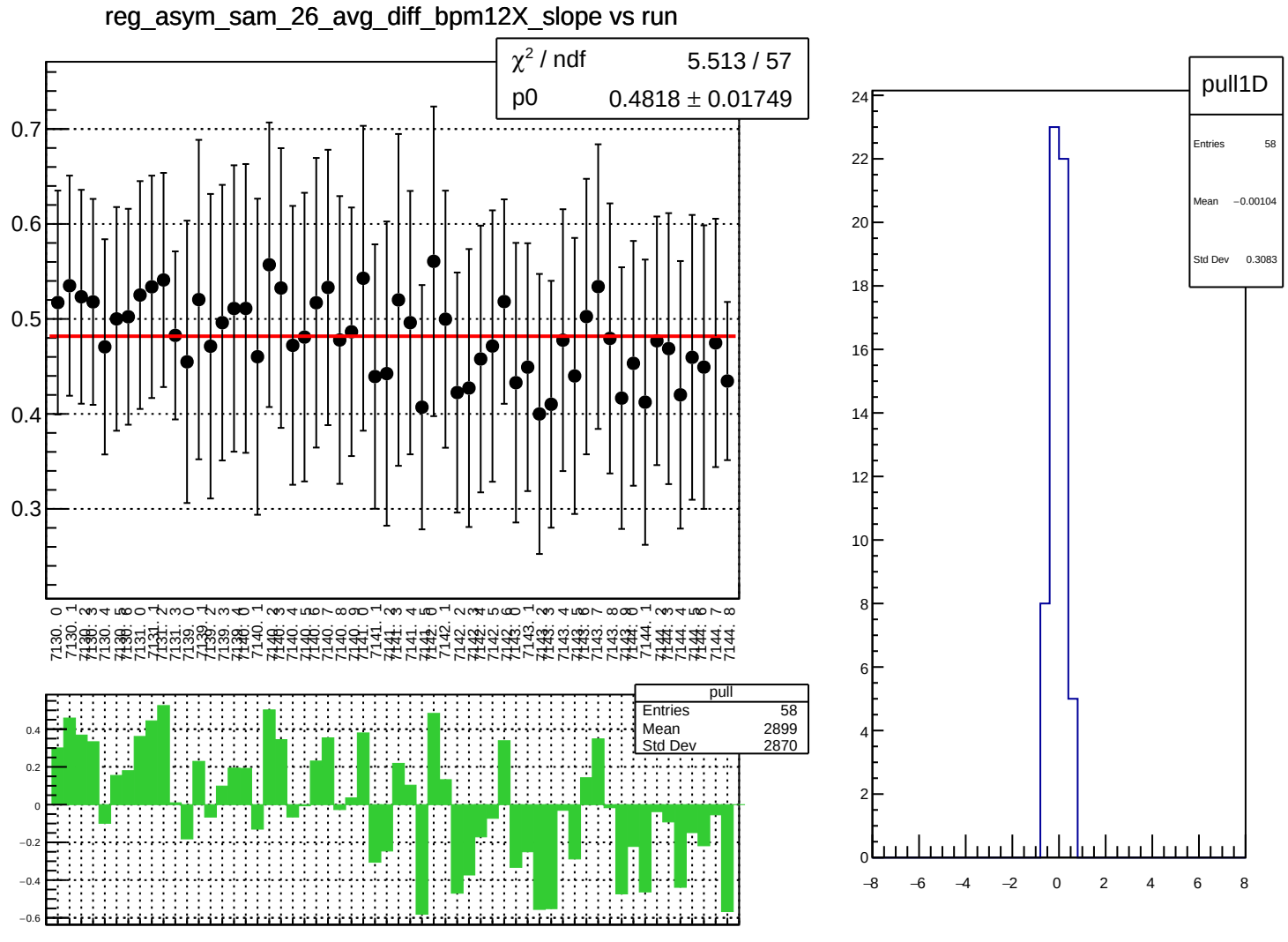

pull1D
Entries 58
Mean 0.1014
Std Dev 1.092

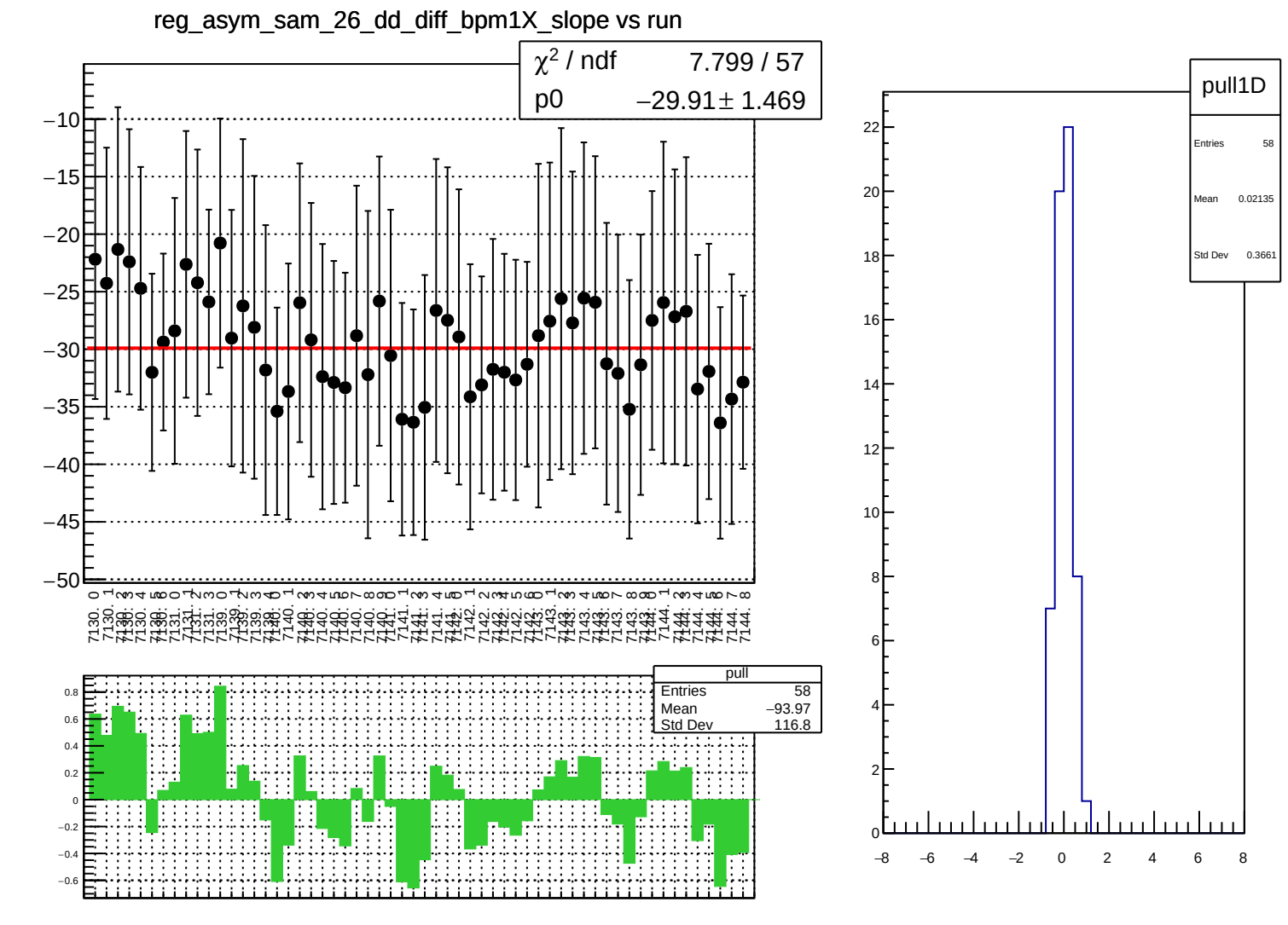

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.02 / 57
p0 7.901 ± 0.3535
pull
Entries 58
Mean 428.2
Std Dev 407.3
pull1D
Entries 58
Mean 0.008116
Std Dev 0.7073

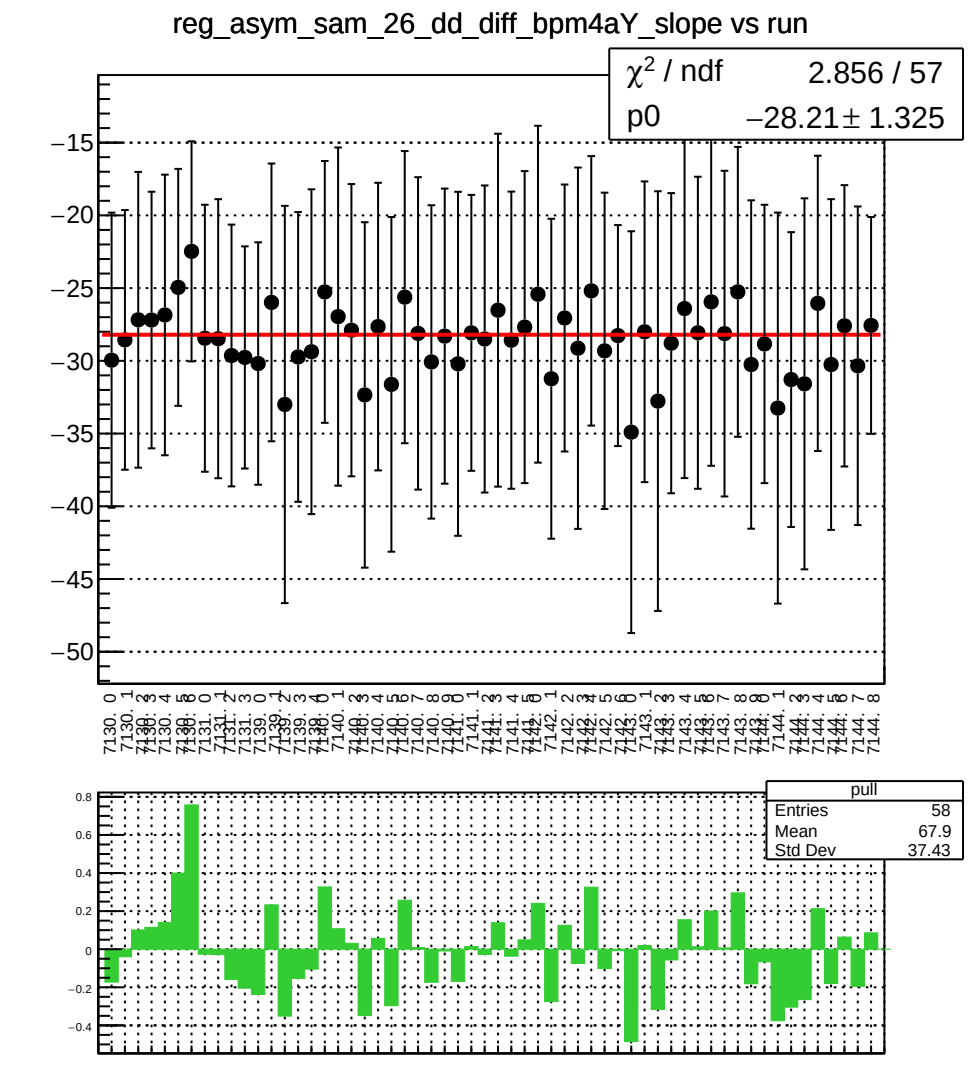

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.56 / 57
p0 −30.75 ± 0.3999
pull
Entries 58
Mean −10.67
Std Dev 32.66
pull1D
Entries 58
Mean −0.1013
Std Dev 0.9465

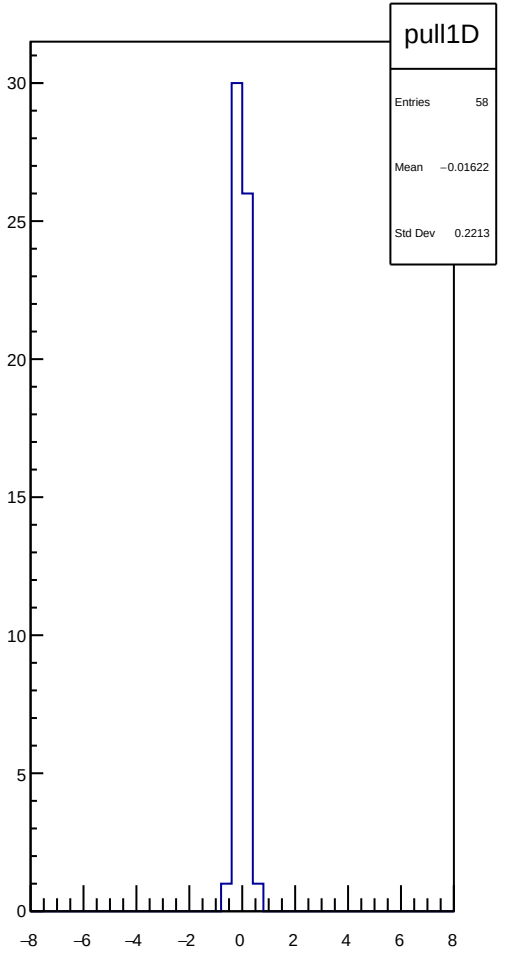

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 44.37 / 57
p0 −29.74 ± 0.3783
pull
Entries 58
Mean 142.5
Std Dev 122.7

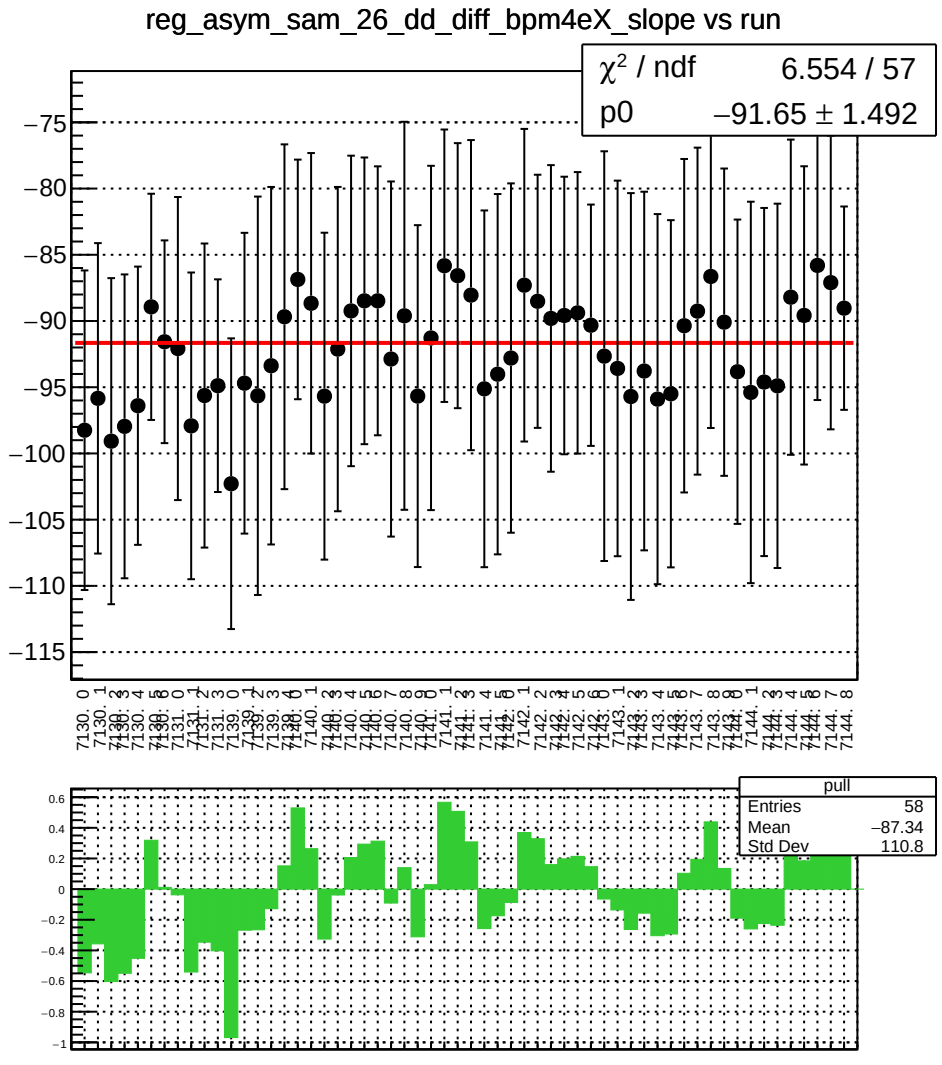

pull1D
Entries 58
Mean −0.03838
Std Dev 0.8738

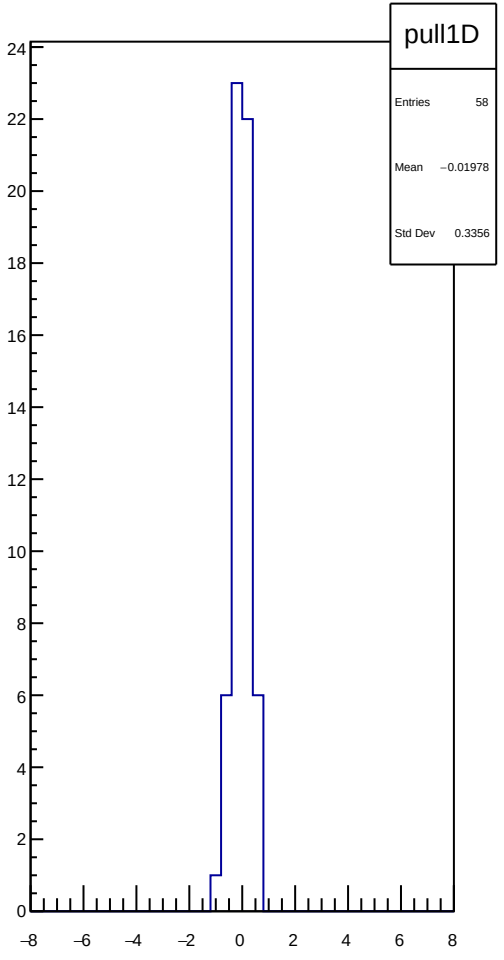

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 5.513 / 57
p0 0.4818 ± 0.01749
pull
Entries 58
Mean 2899
Std Dev 2870
pull1D
Entries 58
Mean −0.00104
Std Dev 0.3083

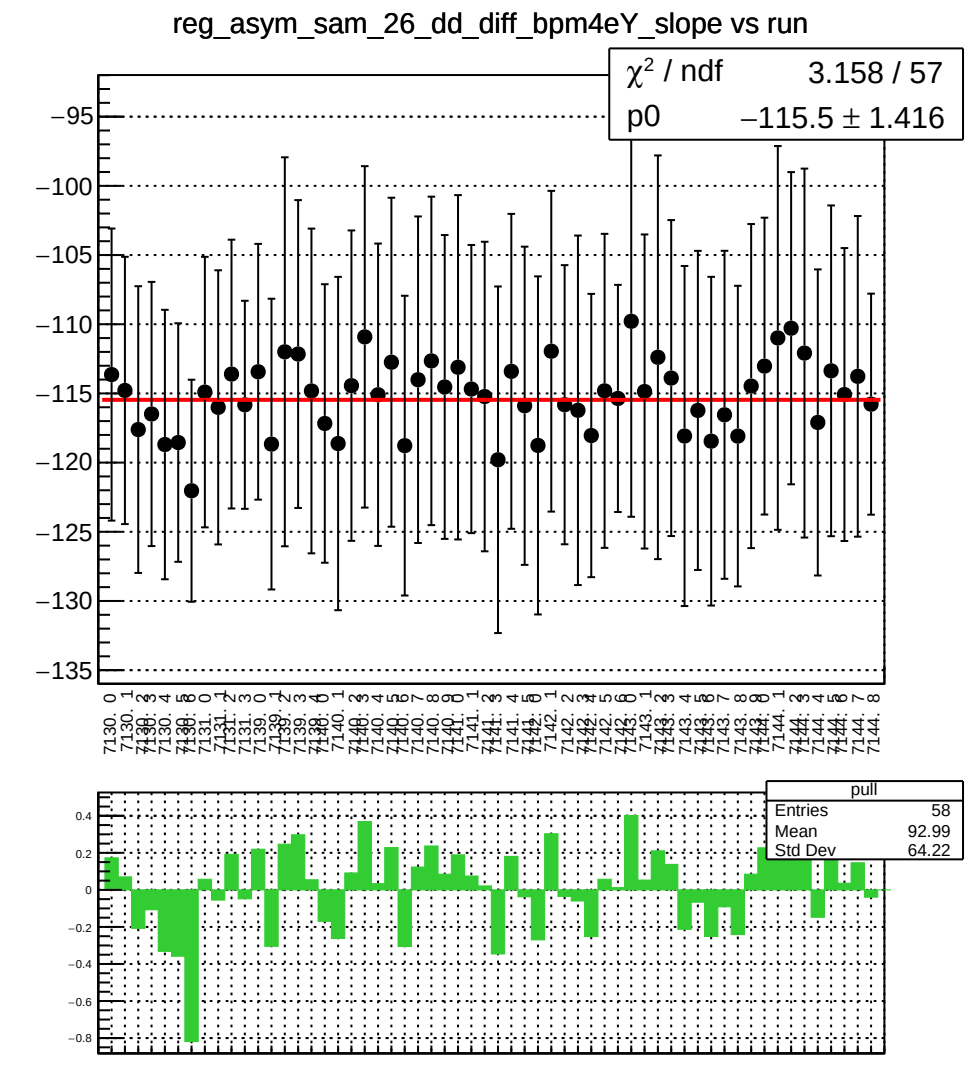

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 7.799 / 57
p0 −29.91 ± 1.469
pull
Entries 58
Mean −93.97
Std Dev 116.8
pull1D
Entries 58
Mean 0.02135
Std Dev 0.3661

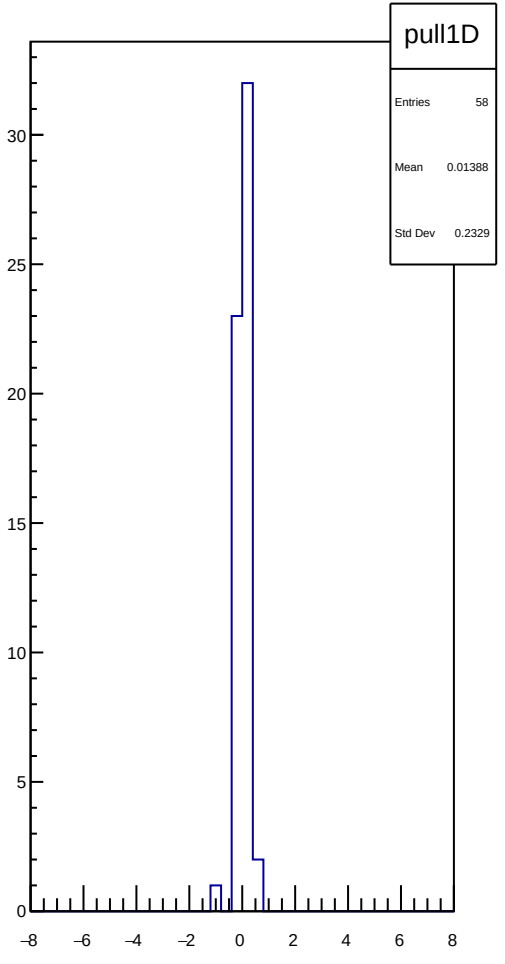

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.856 / 57
p0 −28.21± 1.325
pull
Entries 58
Mean 67.9
Std Dev 37.43

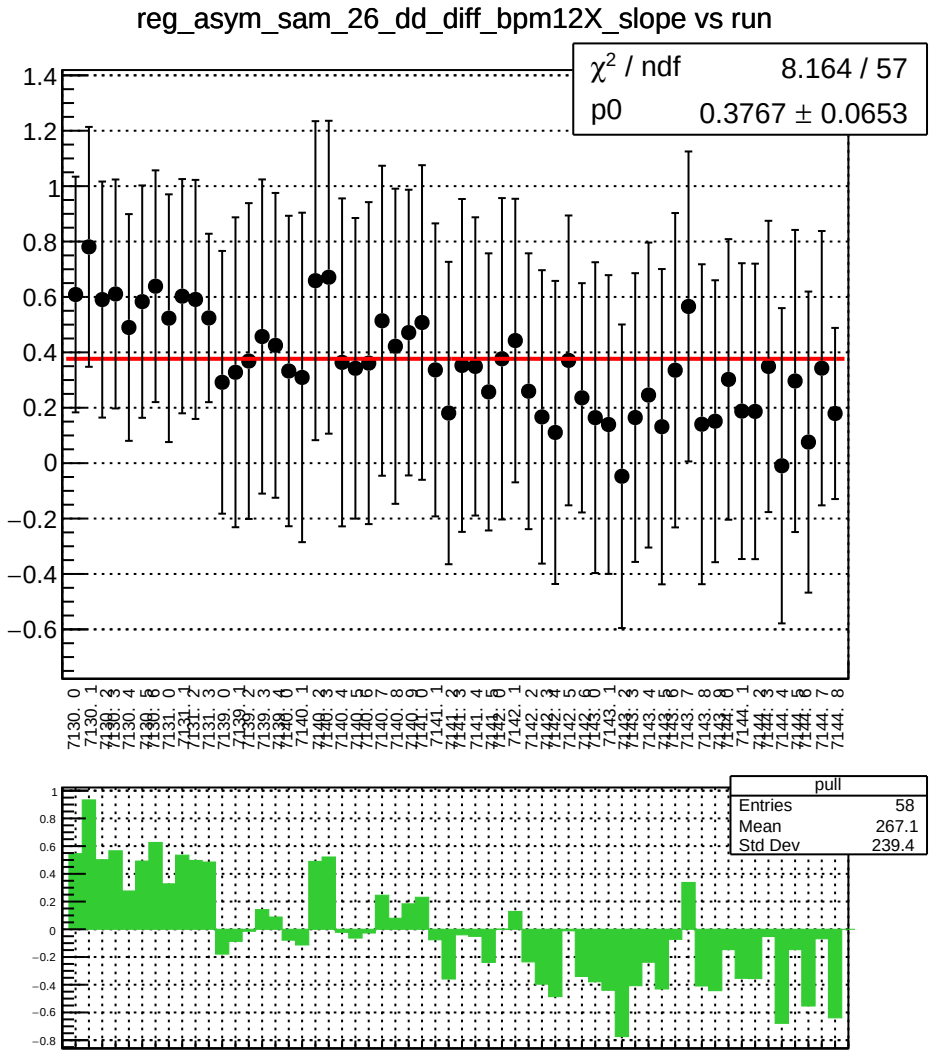

pull1D
Entries 58
Mean −0.01622
Std Dev 0.2213

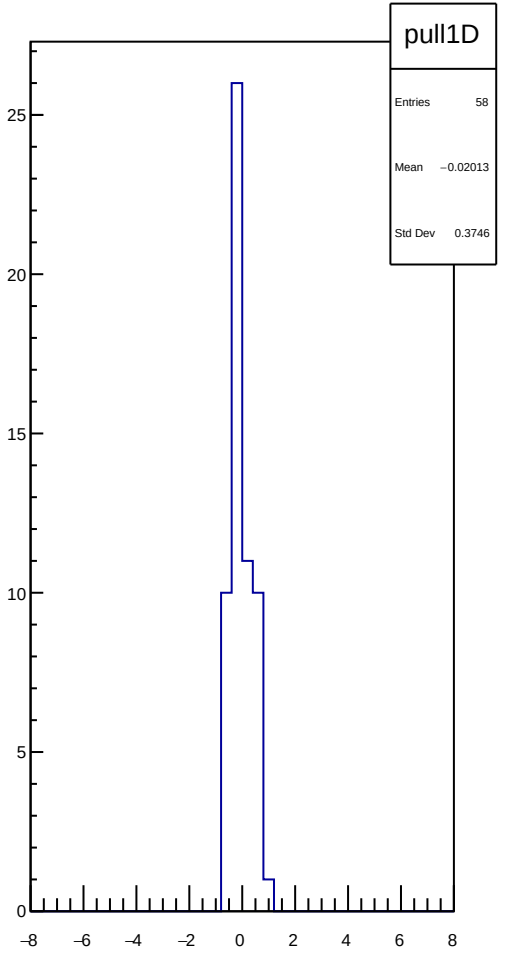

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.554 / 57
p0 −91.65 ± 1.492
pull
Entries 58
Mean −87.34
Std Dev 110.8

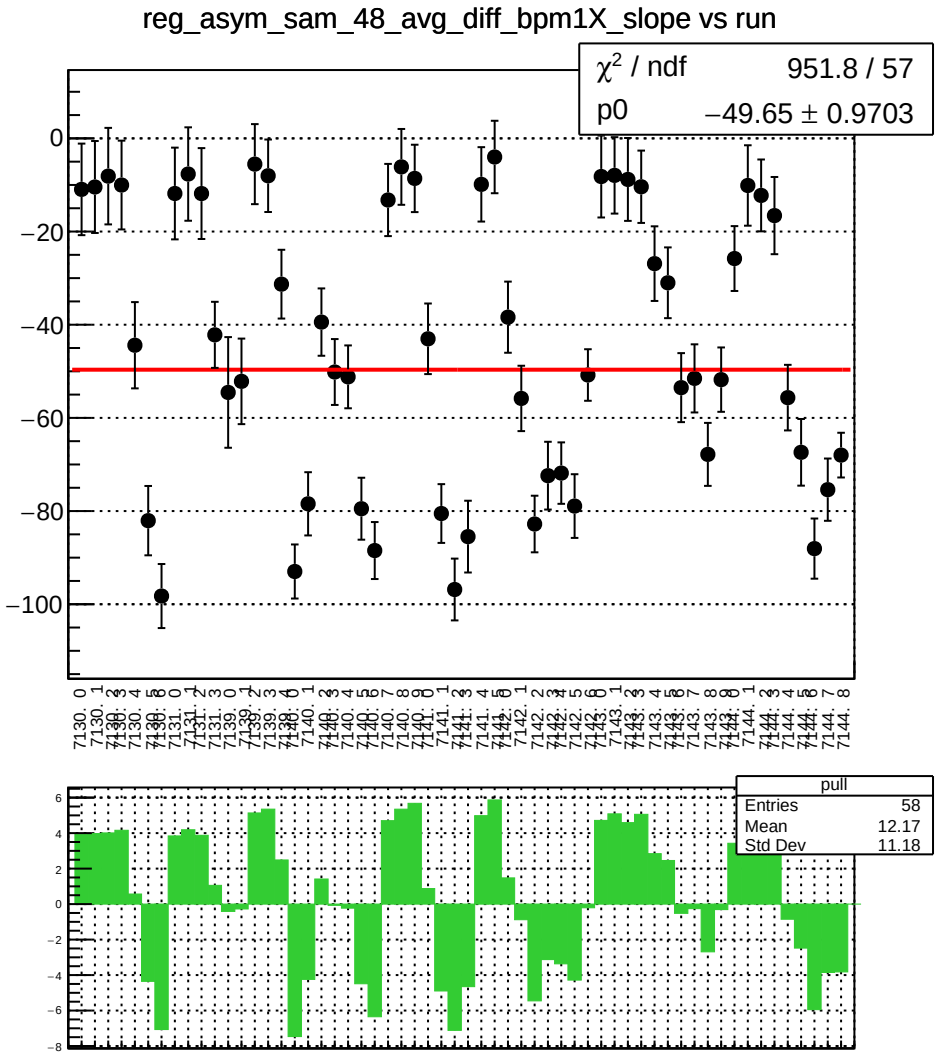

pull1D
Entries 58
Mean −0.01978
Std Dev 0.3356

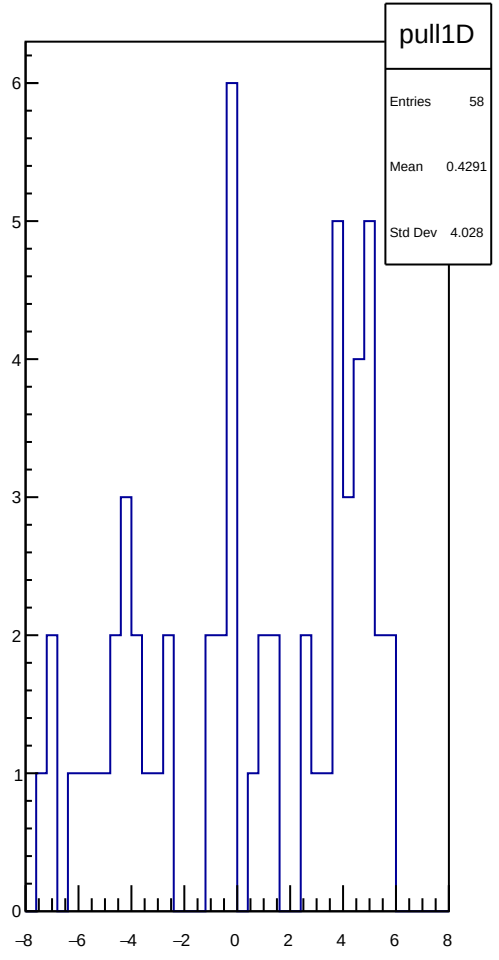

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.158 / 57
p0 −115.5 ± 1.416
pull
Entries 58
Mean 92.99
Std Dev 64.22

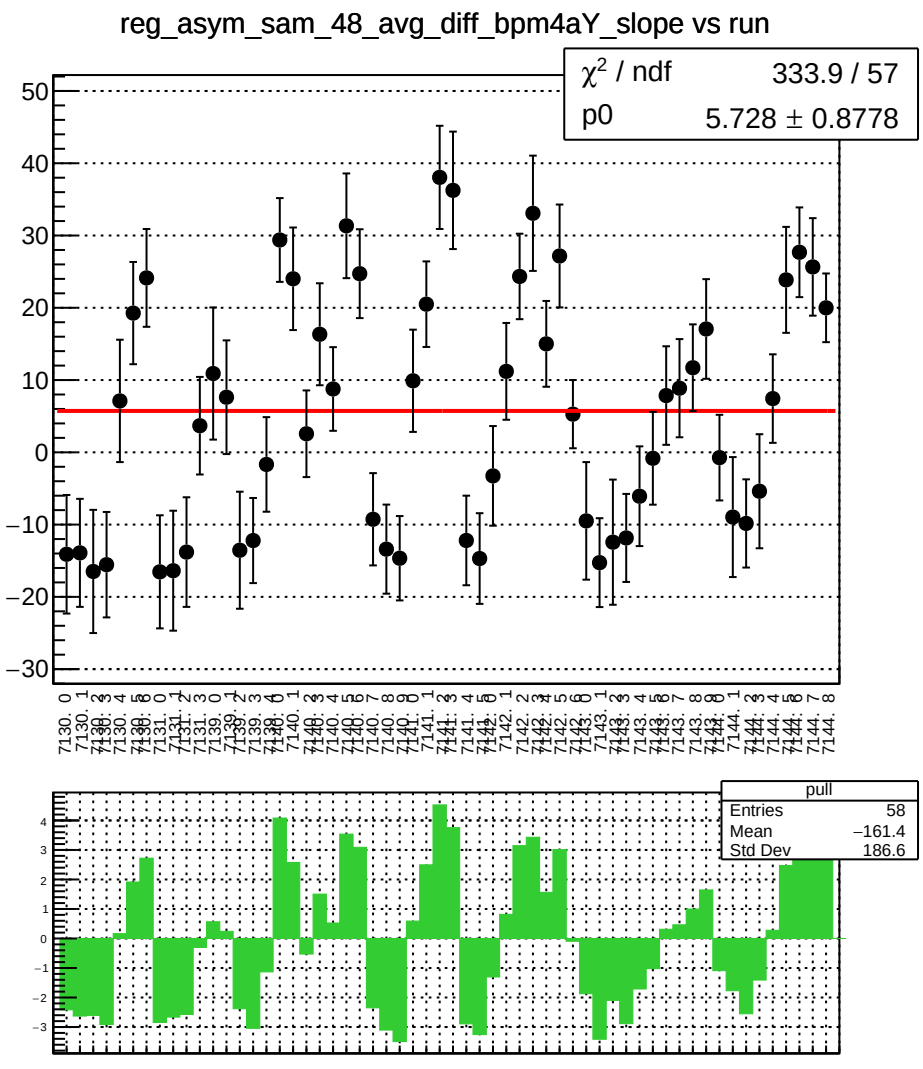

pull1D
Entries 58
Mean 0.01388
Std Dev 0.2329

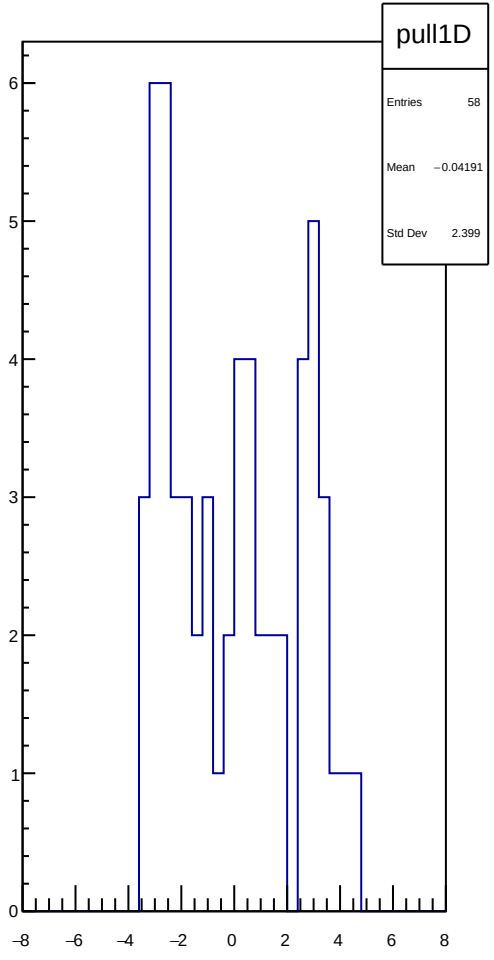

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 8.164 / 57
p0 0.3767 ± 0.0653
pull
Entries 58
Mean 267.1
Std Dev 239.4

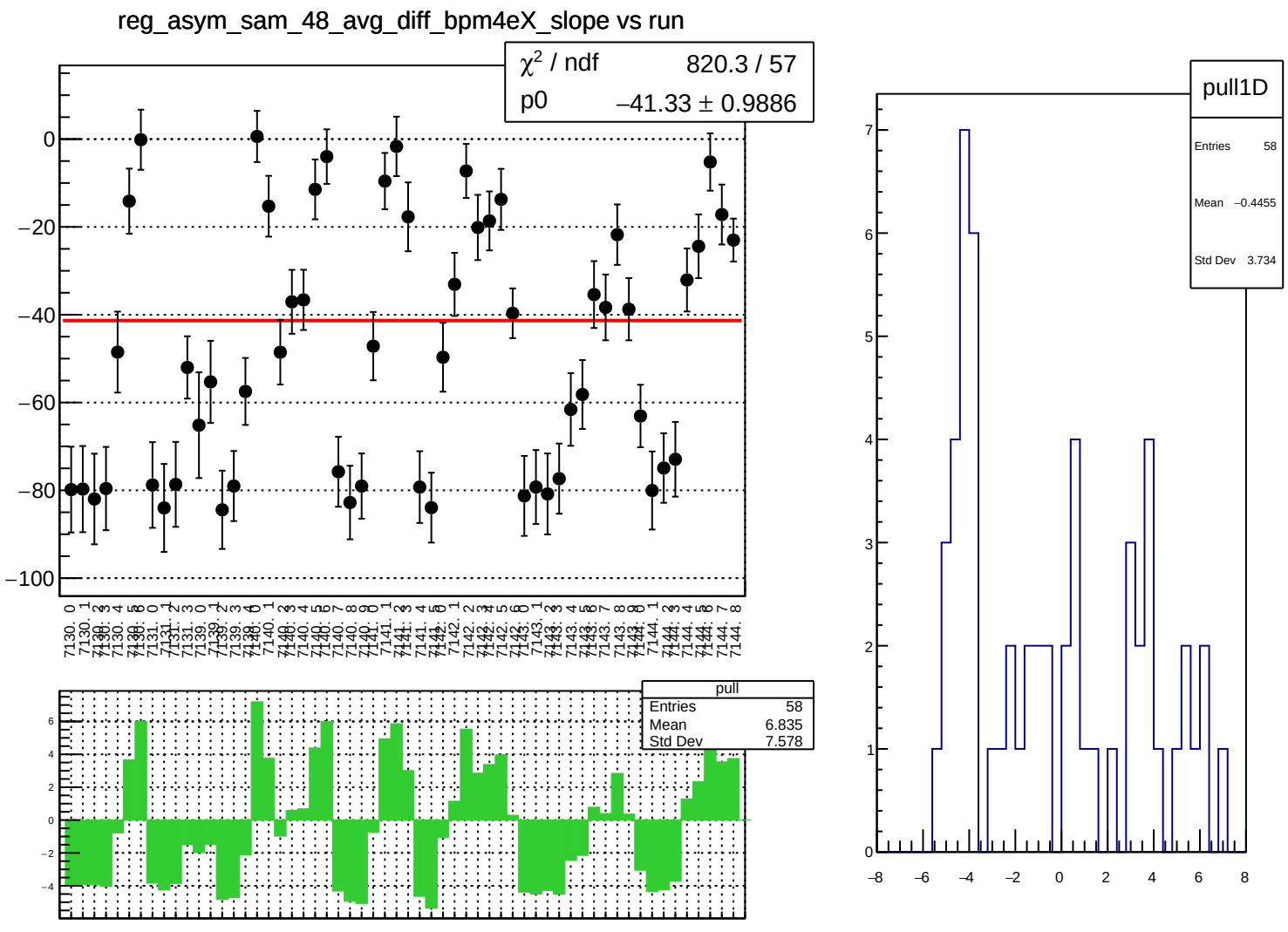

pull1D
Entries 58
Mean −0.02013
Std Dev 0.3746

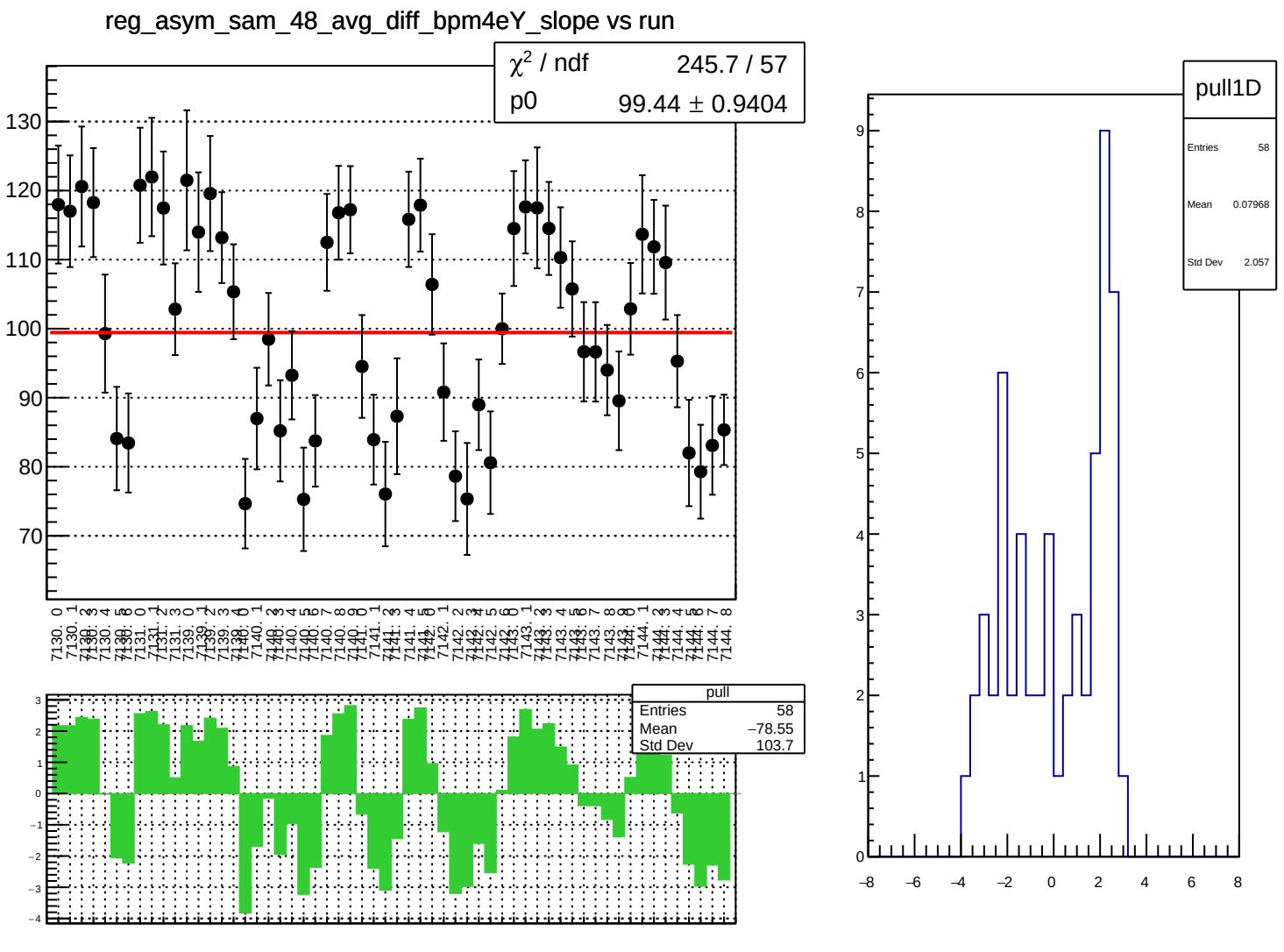

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 951.8 / 57
p0 −49.65 ± 0.9703
pull
Entries 58
Mean 12.17
Std Dev 11.18

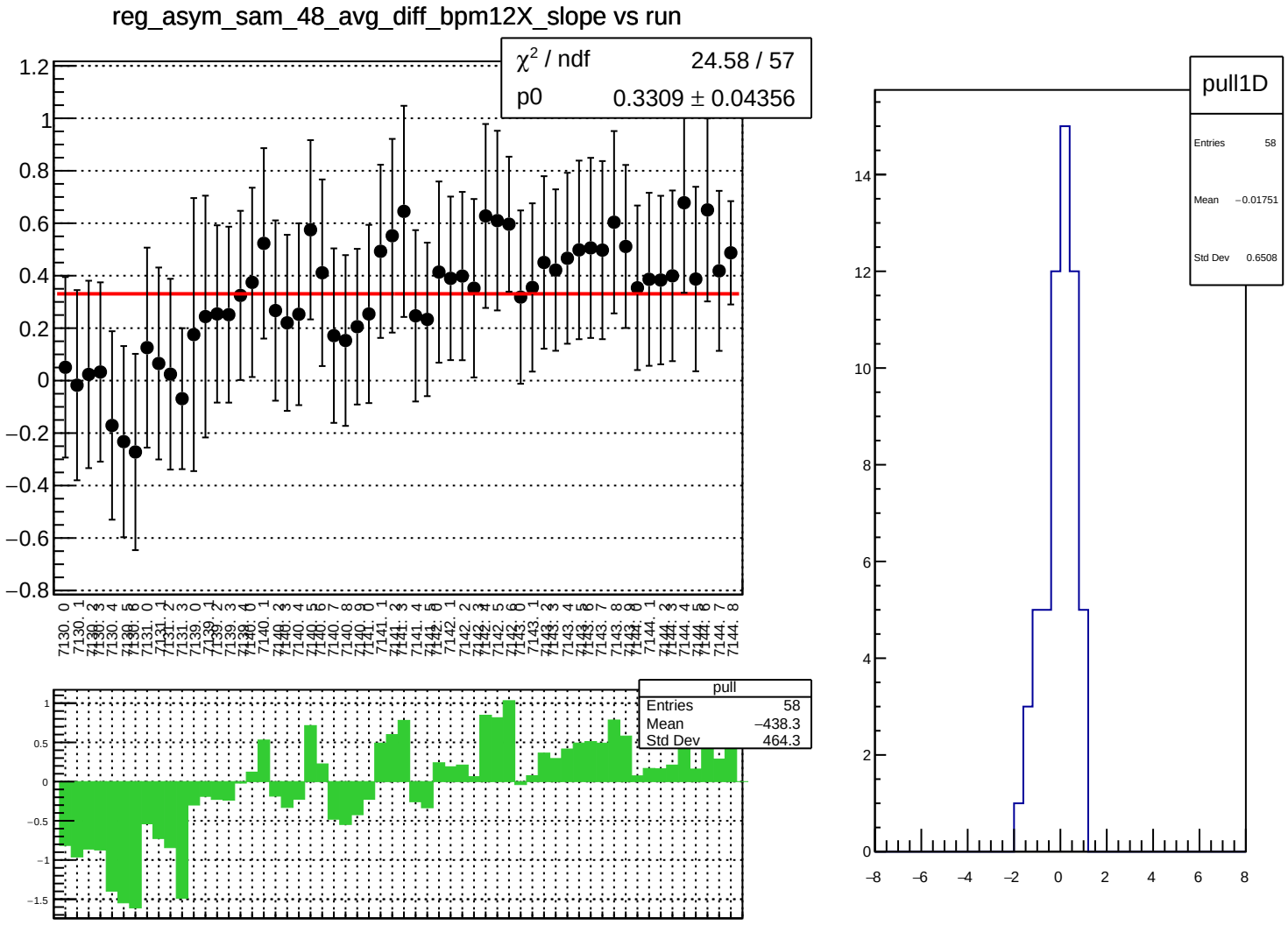

pull1D
Entries 58
Mean 0.4291
Std Dev 4.028

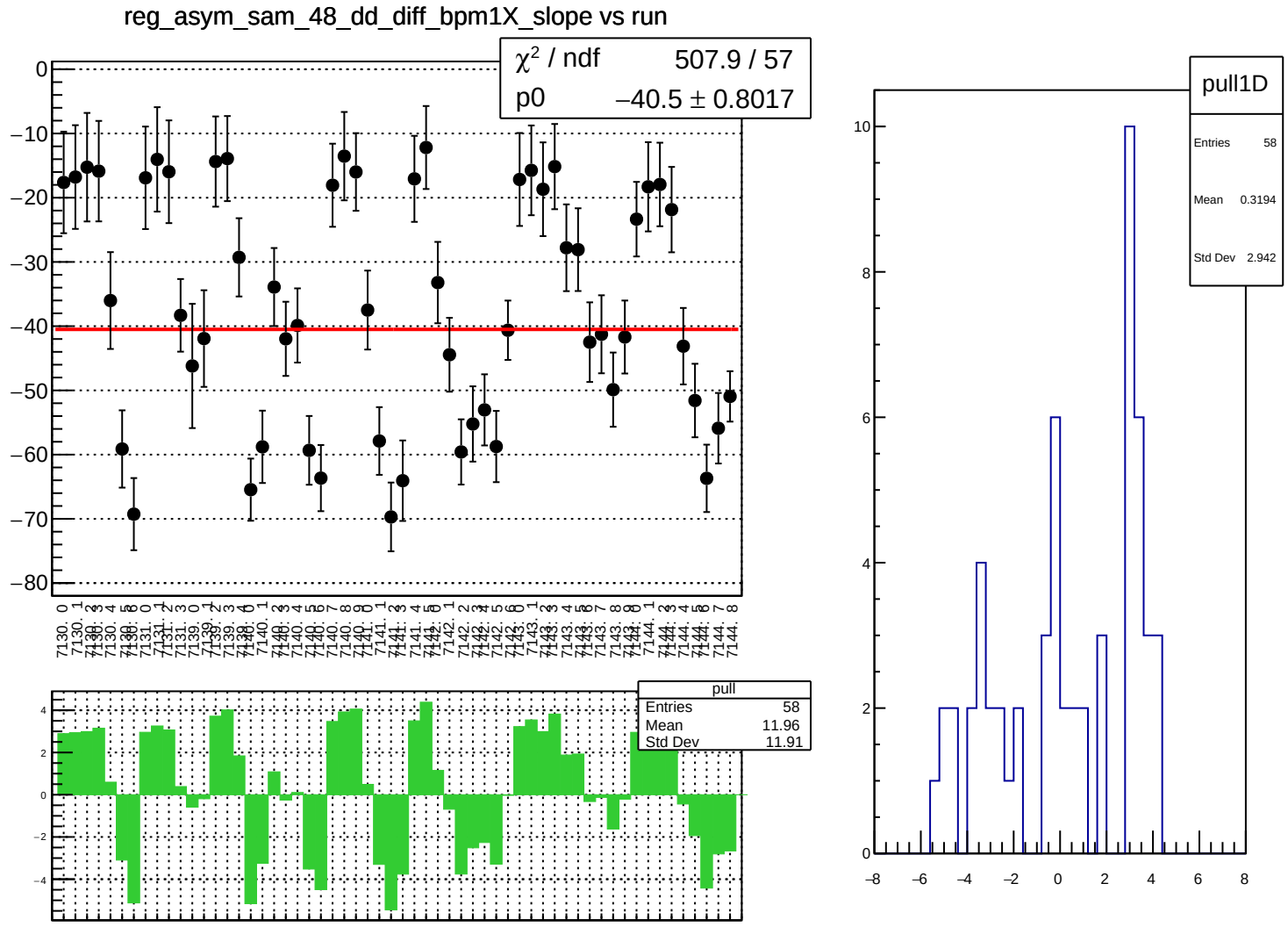

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 333.9 / 57
p0 5.728 ± 0.8778
pull
Entries 58
Mean −161.4
Std Dev 186.6

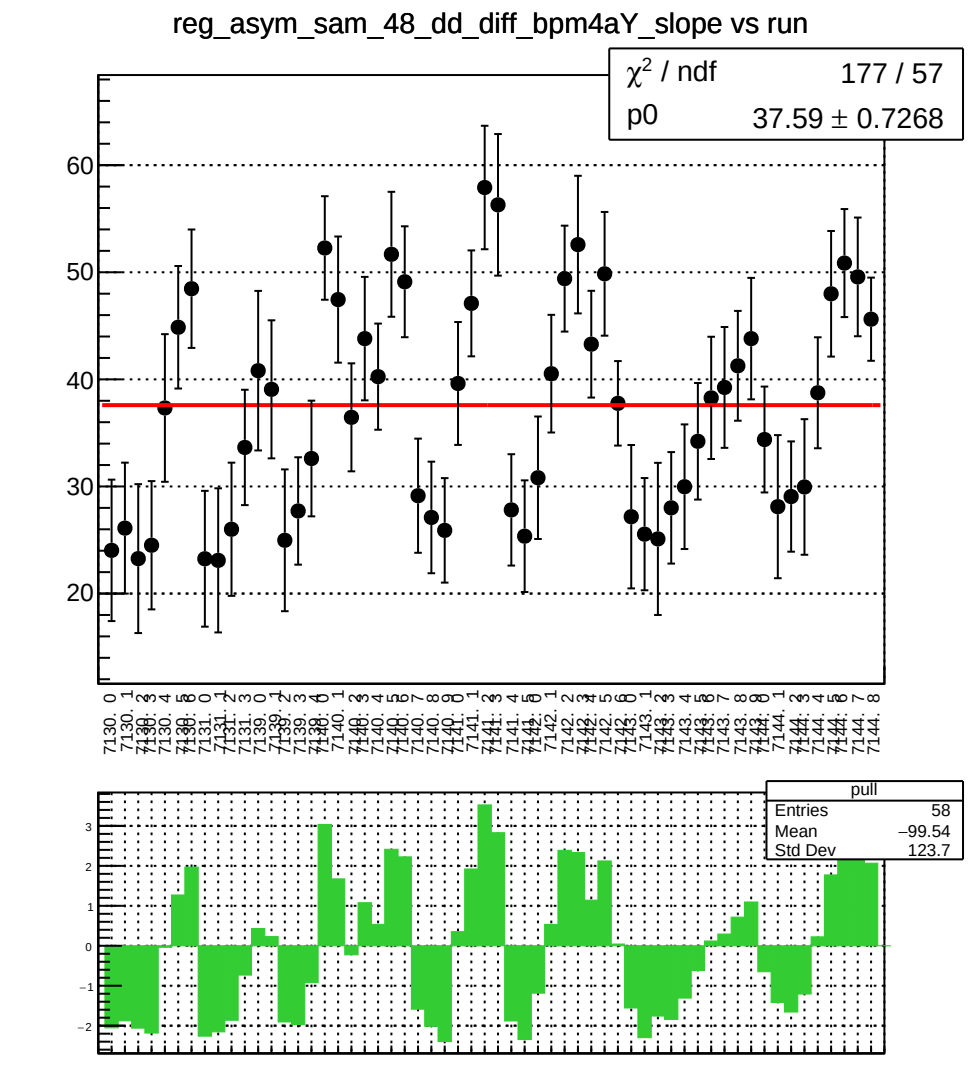

pull1D
Entries 58
Mean −0.04191
Std Dev 2.399

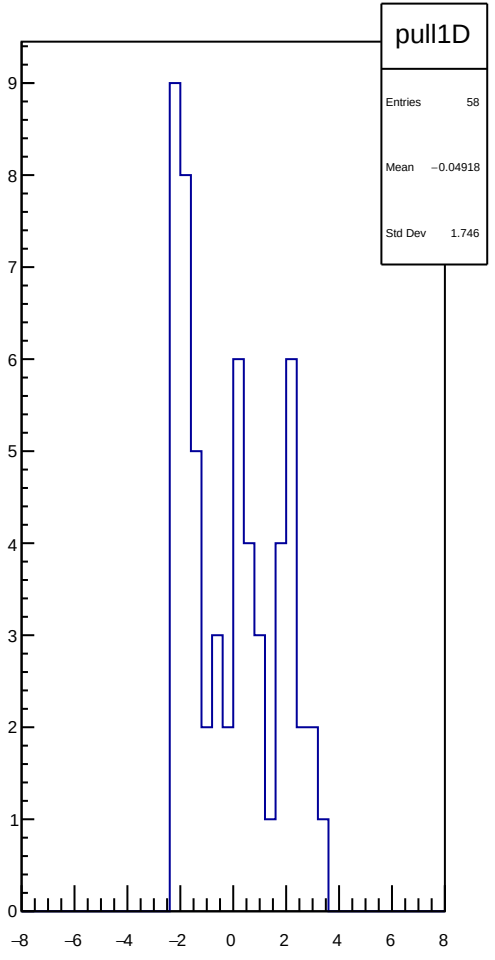

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 820.3 / 57
p0 −41.33 ± 0.9886
pull
Entries 58
Mean 6.835
Std Dev 7.578
pull1D
Entries 58
Mean −0.4455
Std Dev 3.734

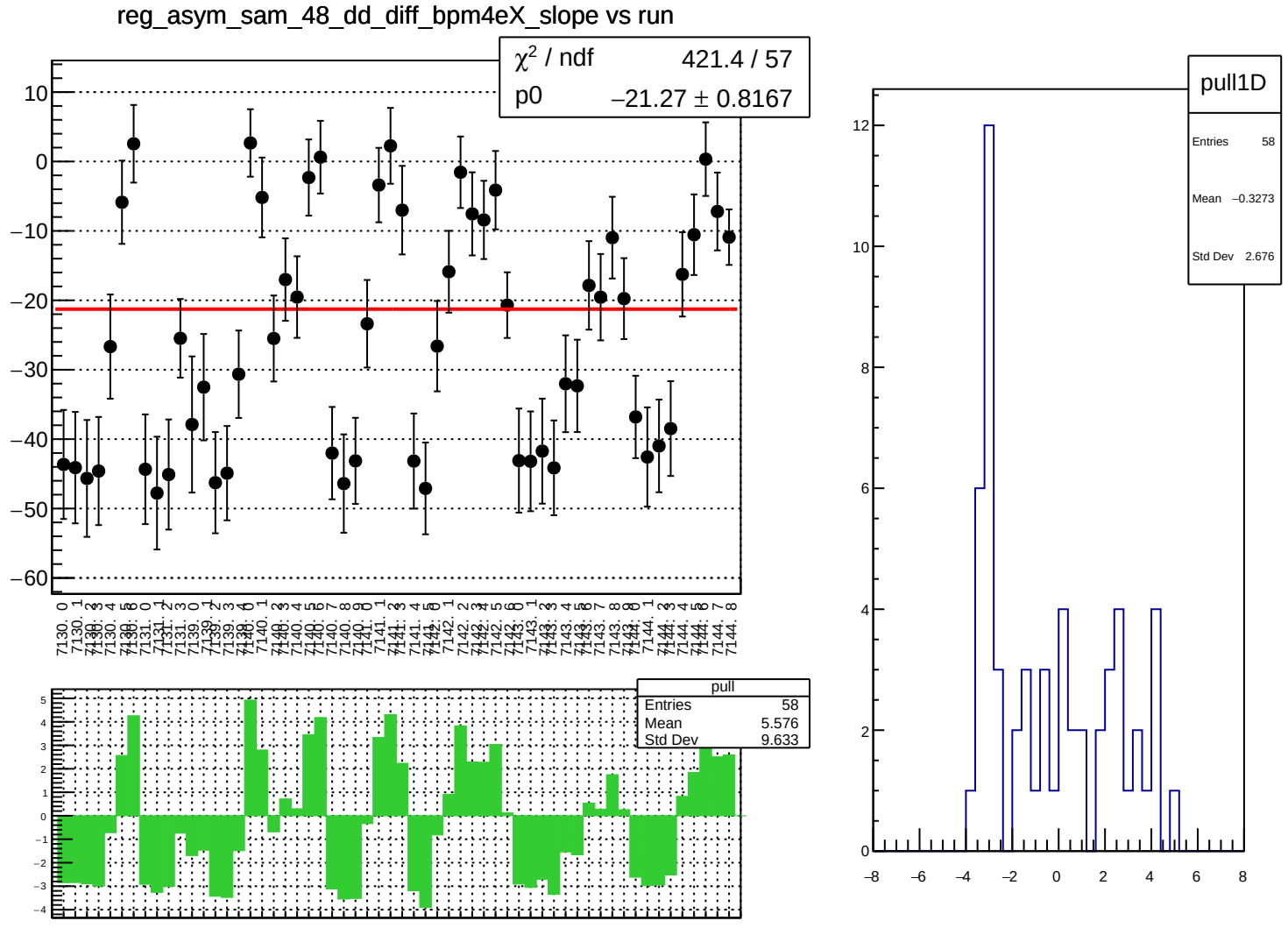

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 245.7 / 57
p0 99.44 ± 0.9404
pull
Entries 58
Mean −78.55
Std Dev 103.7
pull1D
Entries 58
Mean 0.07968
Std Dev 2.057

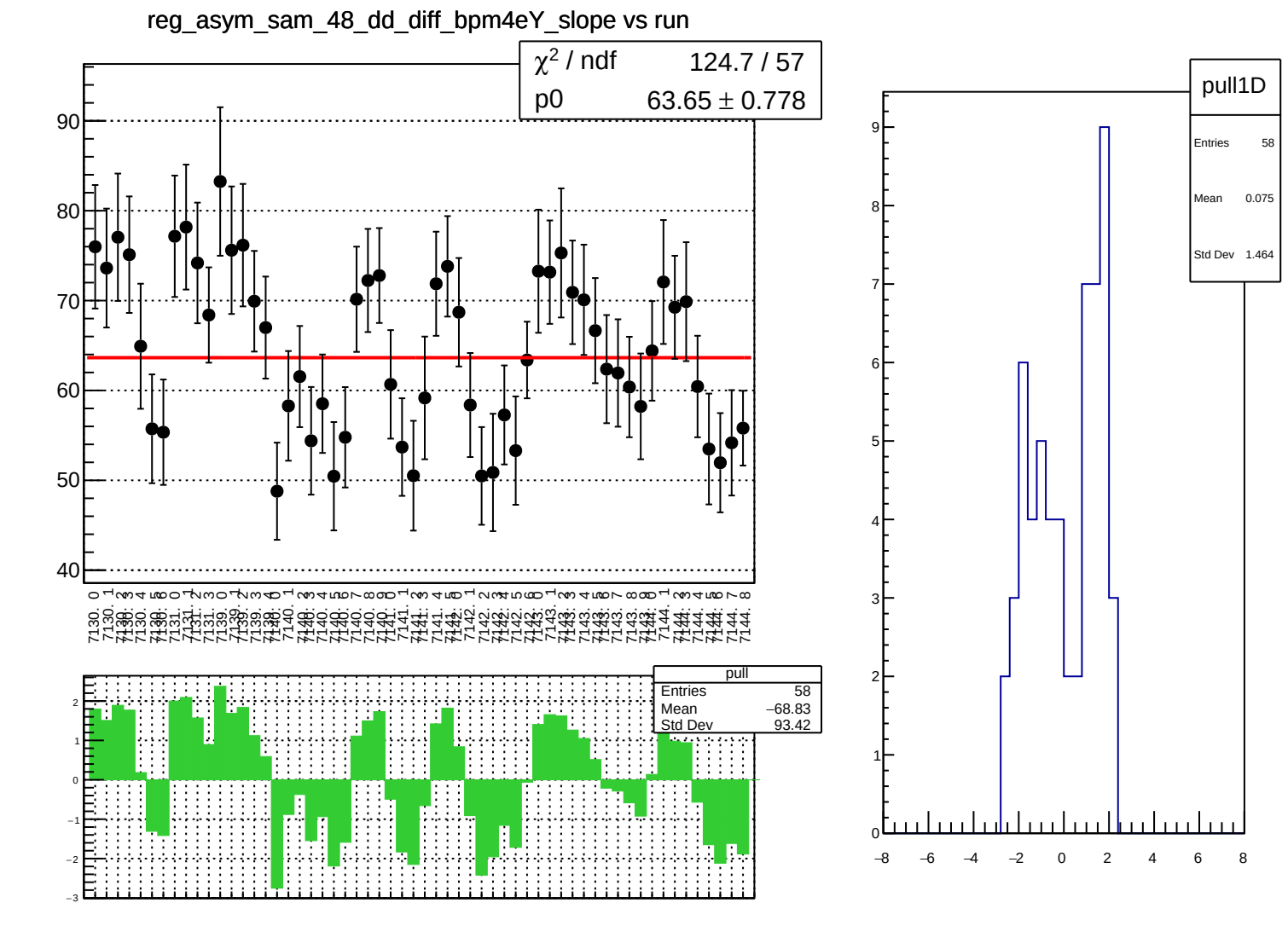

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 24.58 / 57
p0 0.3309 ± 0.04356
pull
Entries 58
Mean −438.3
Std Dev 464.3
pull1D
Entries 58
Mean −0.01751
Std Dev 0.6508

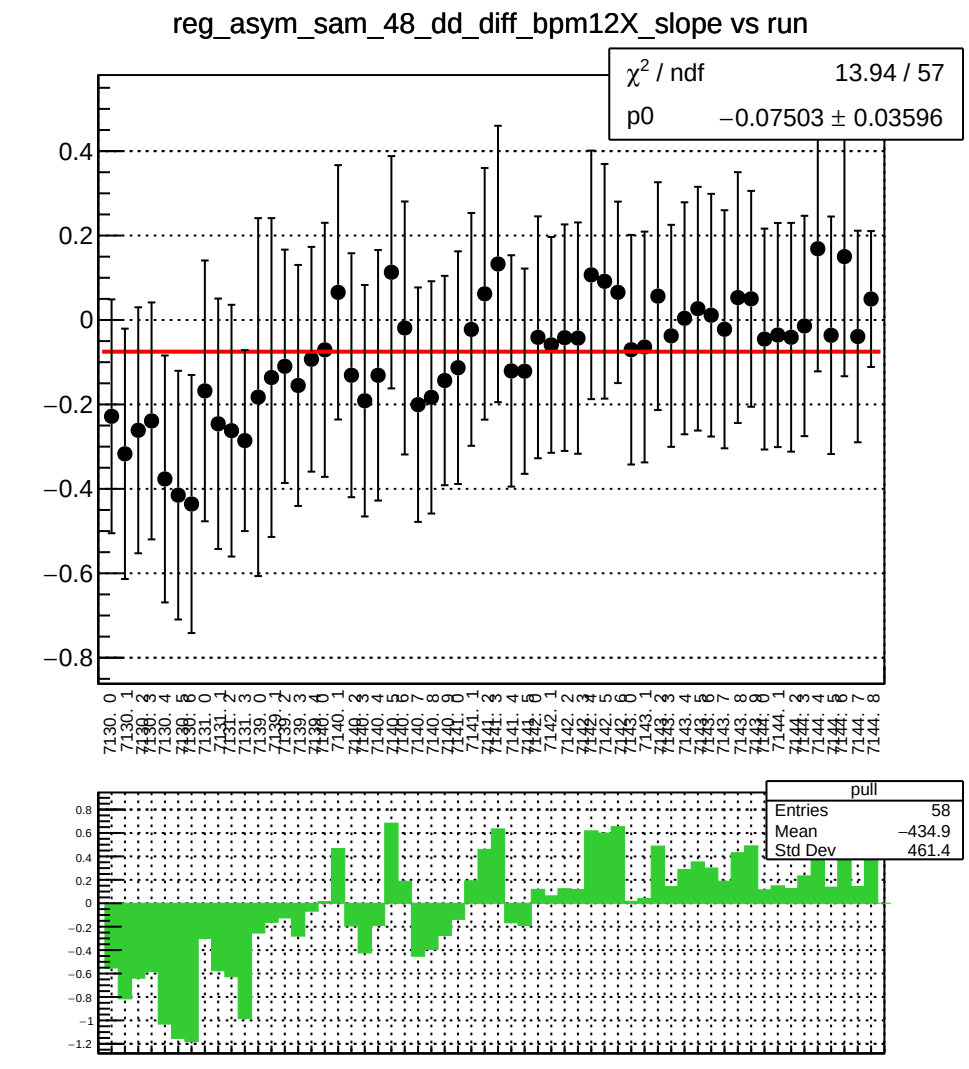

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 507.9 / 57
p0 −40.5 ± 0.8017
pull
Entries 58
Mean 11.96
Std Dev 11.91
pull1D
Entries 58
Mean 0.3194
Std Dev 2.942

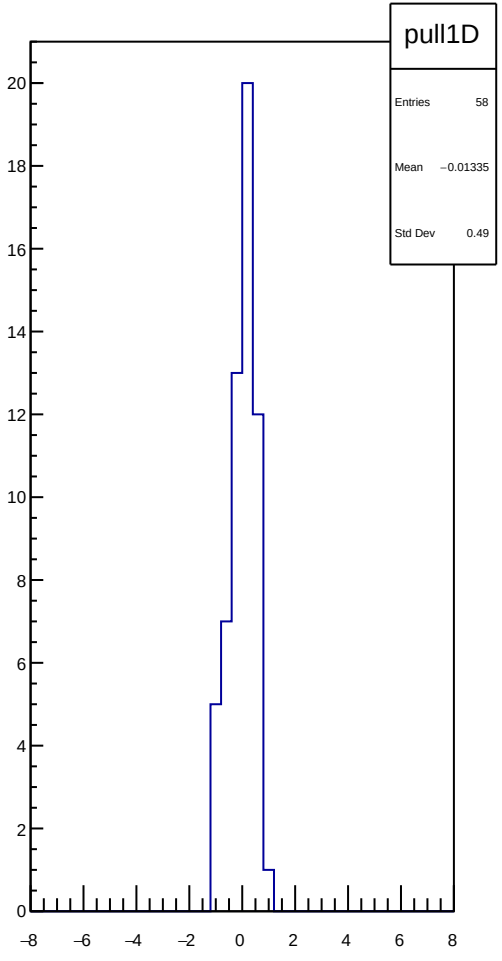

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 177 / 57
p0 37.59 ± 0.7268
pull
Entries 58
Mean −99.54
Std Dev 123.7

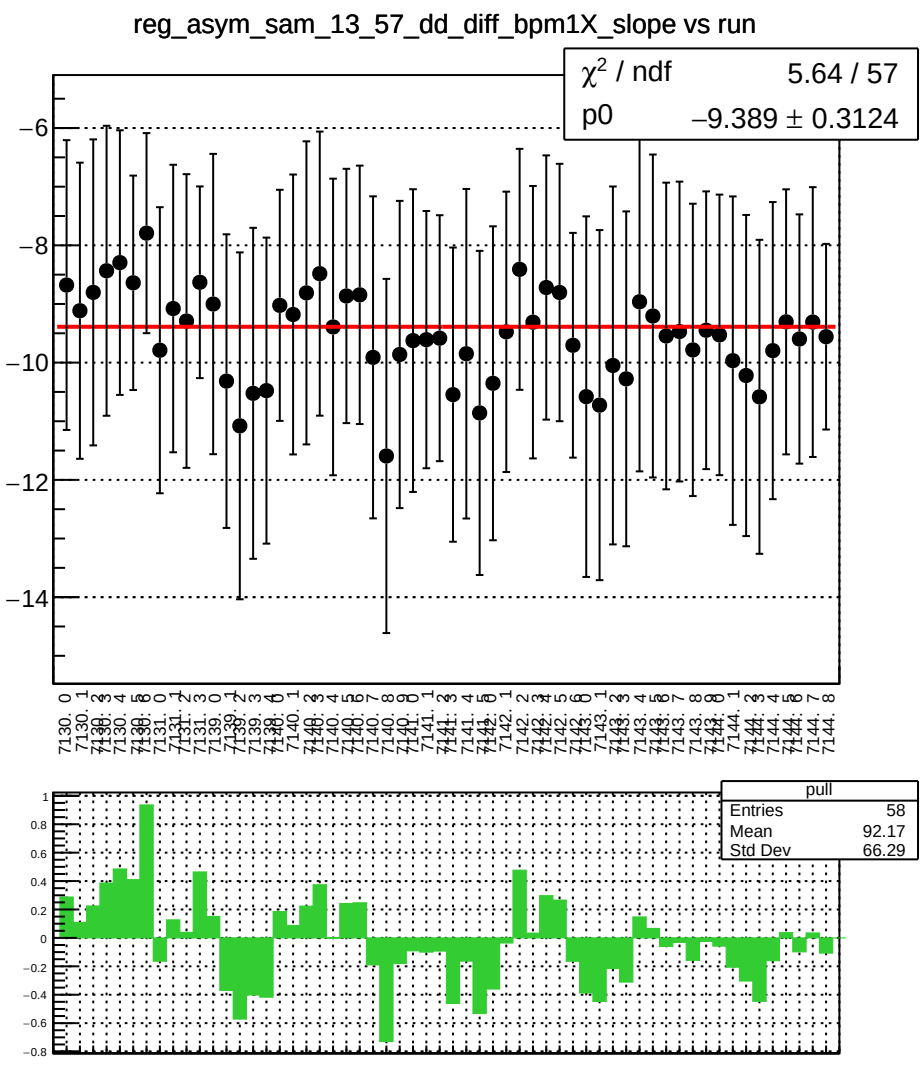

pull1D
Entries 58
Mean −0.04918
Std Dev 1.746

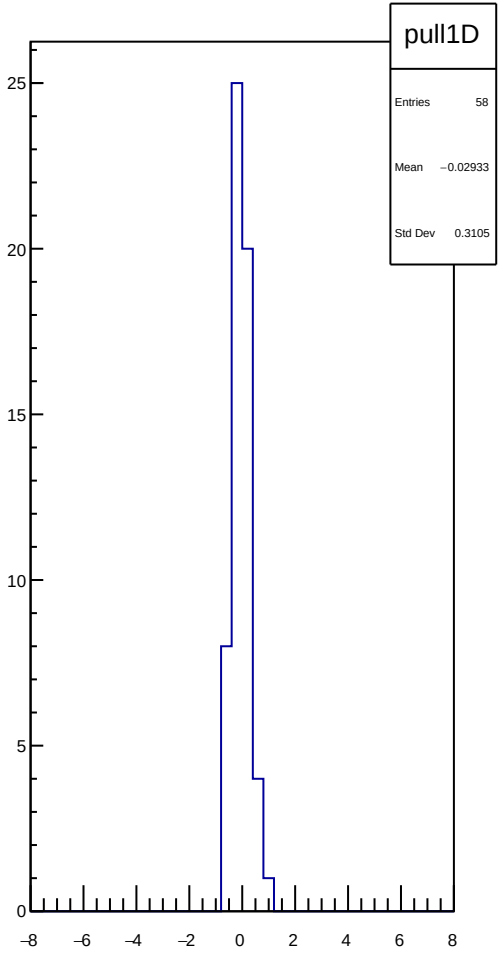

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 421.4 / 57
p0 −21.27 ± 0.8167
pull
Entries 58
Mean 5.576
Std Dev 9.633
pull1D
Entries 58
Mean −0.3273
Std Dev 2.676

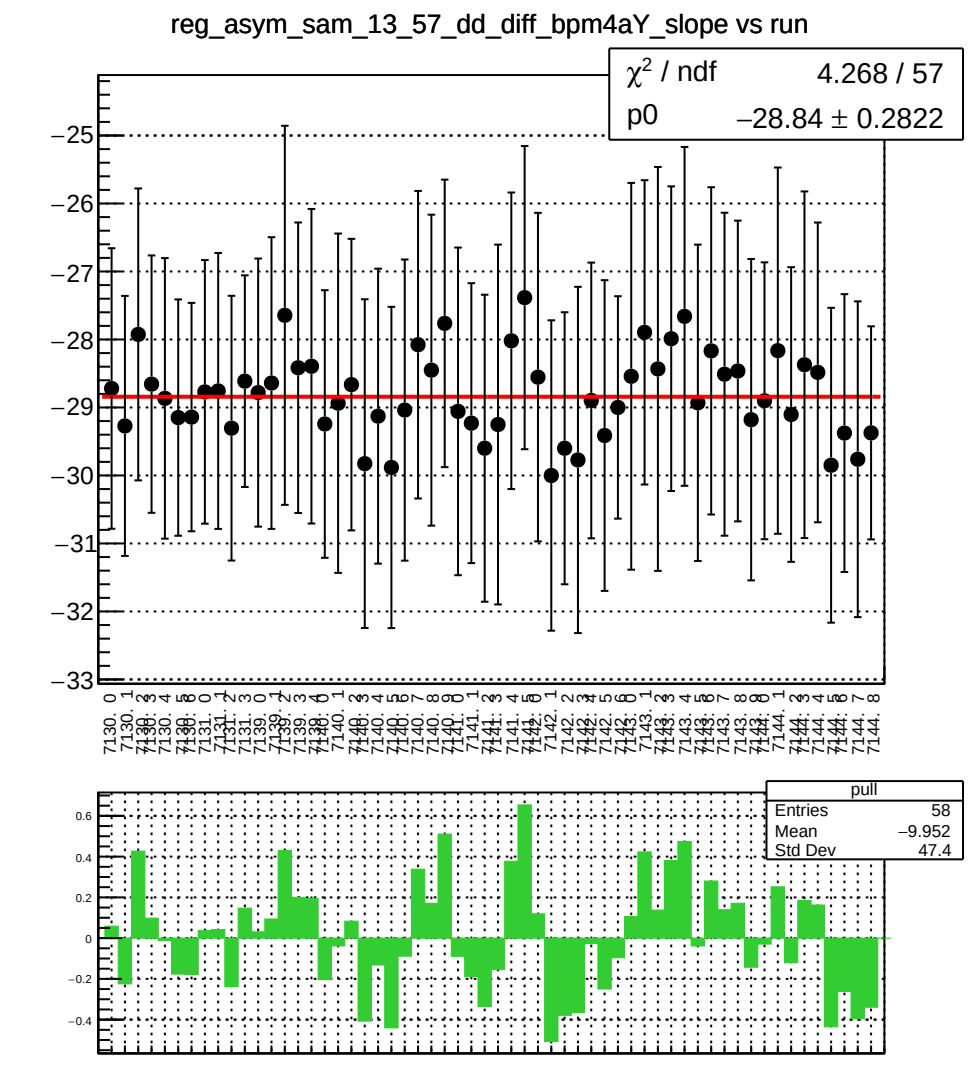

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 124.7 / 57
p0 63.65 ± 0.778
pull
Entries 58
Mean −68.83
Std Dev 93.42
pull1D
Entries 58
Mean 0.075
Std Dev 1.464

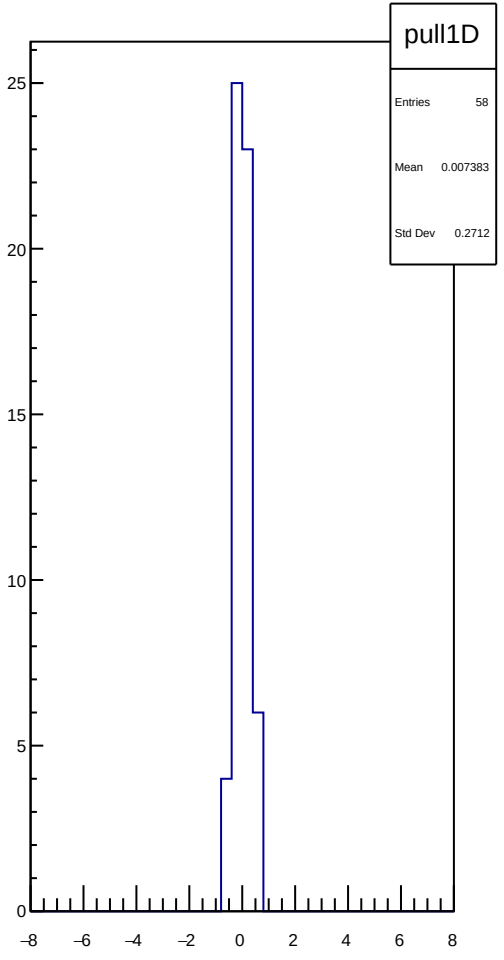

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 13.94 / 57
p0 −0.07503 ± 0.03596
pull
Entries 58
Mean −434.9
Std Dev 461.4

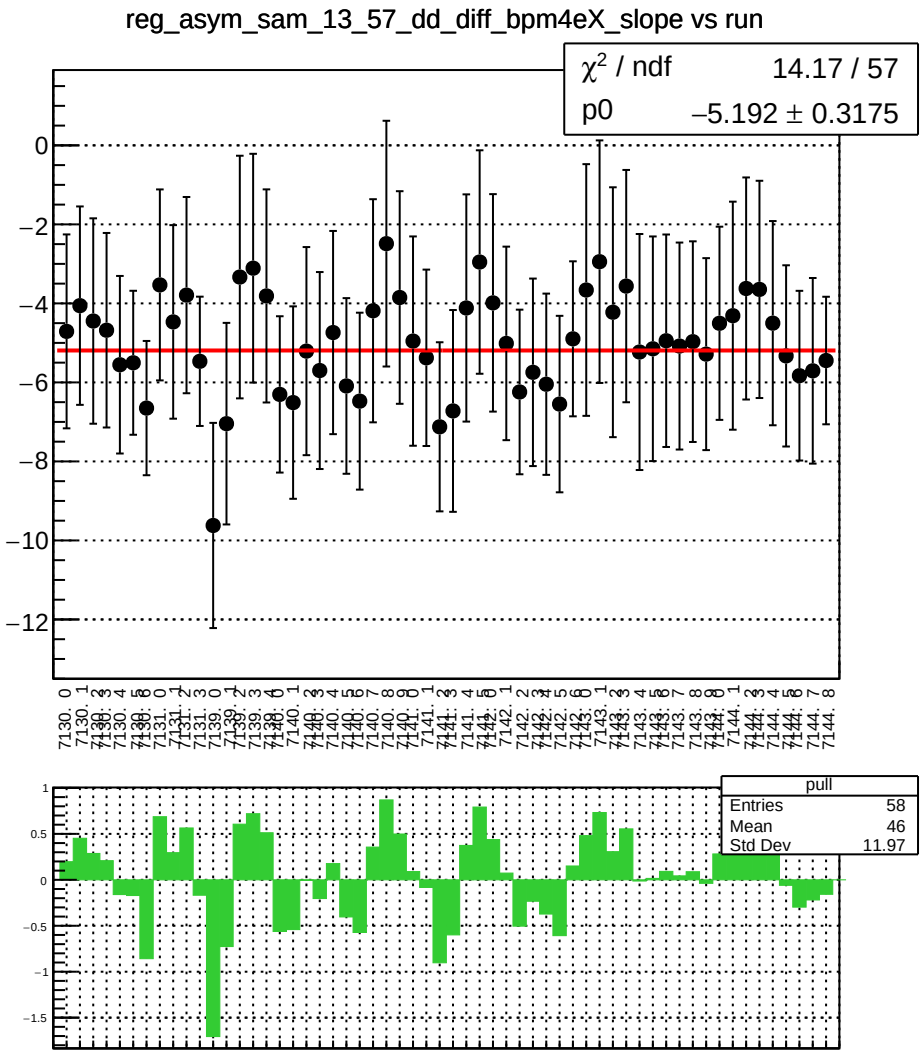

pull1D
Entries 58
Mean −0.01335
Std Dev 0.49

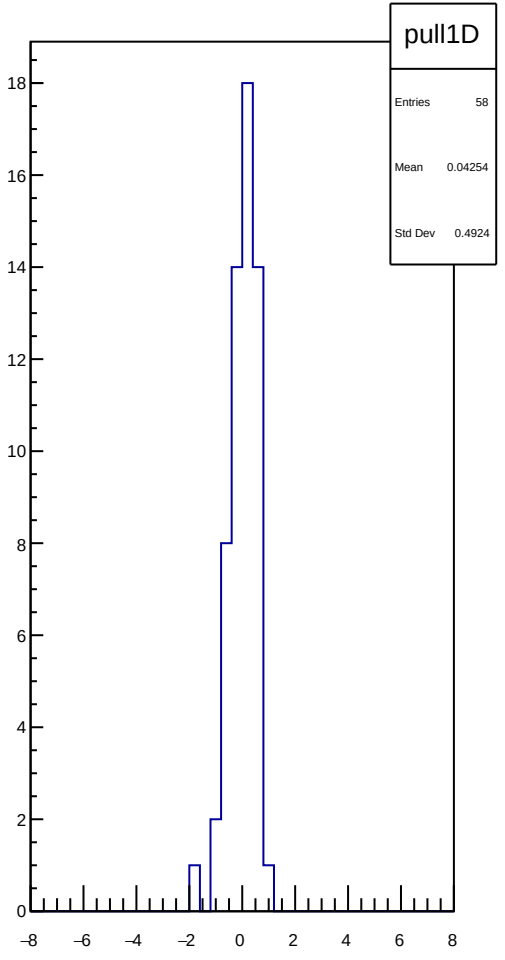

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 5.64 / 57
p0 −9.389 ± 0.3124
pull
Entries 58
Mean 92.17
Std Dev 66.29

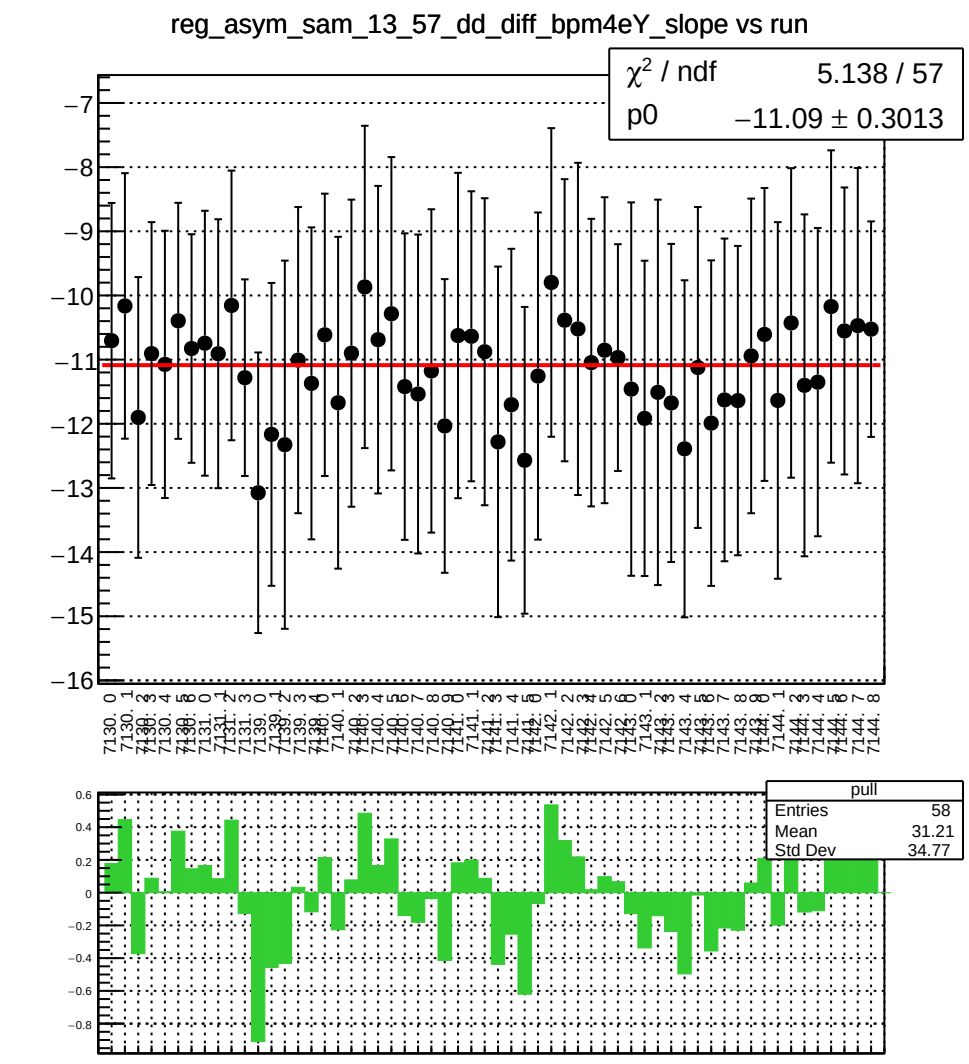

pull1D
Entries 58
Mean −0.02933
Std Dev 0.3105

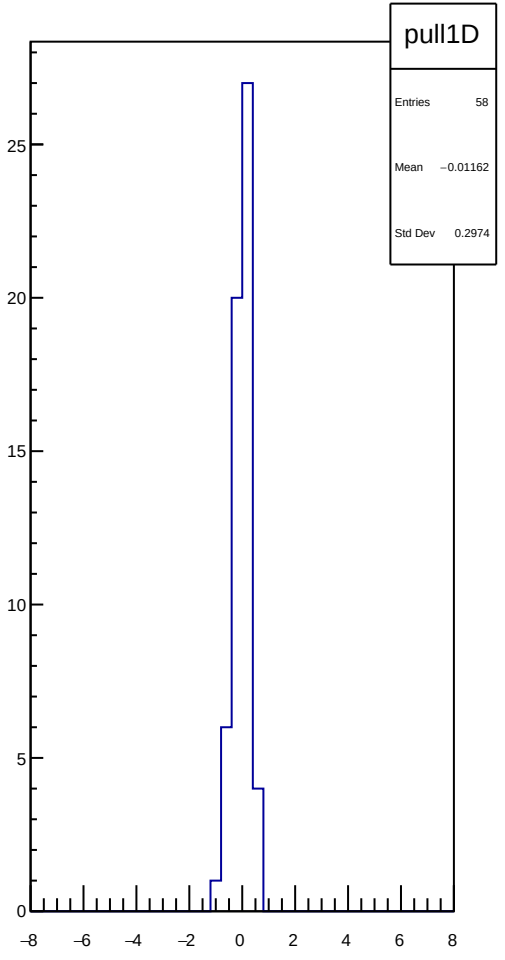

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.268 / 57
p0 −28.84 ± 0.2822
pull
Entries 58
Mean −9.952
Std Dev 47.4

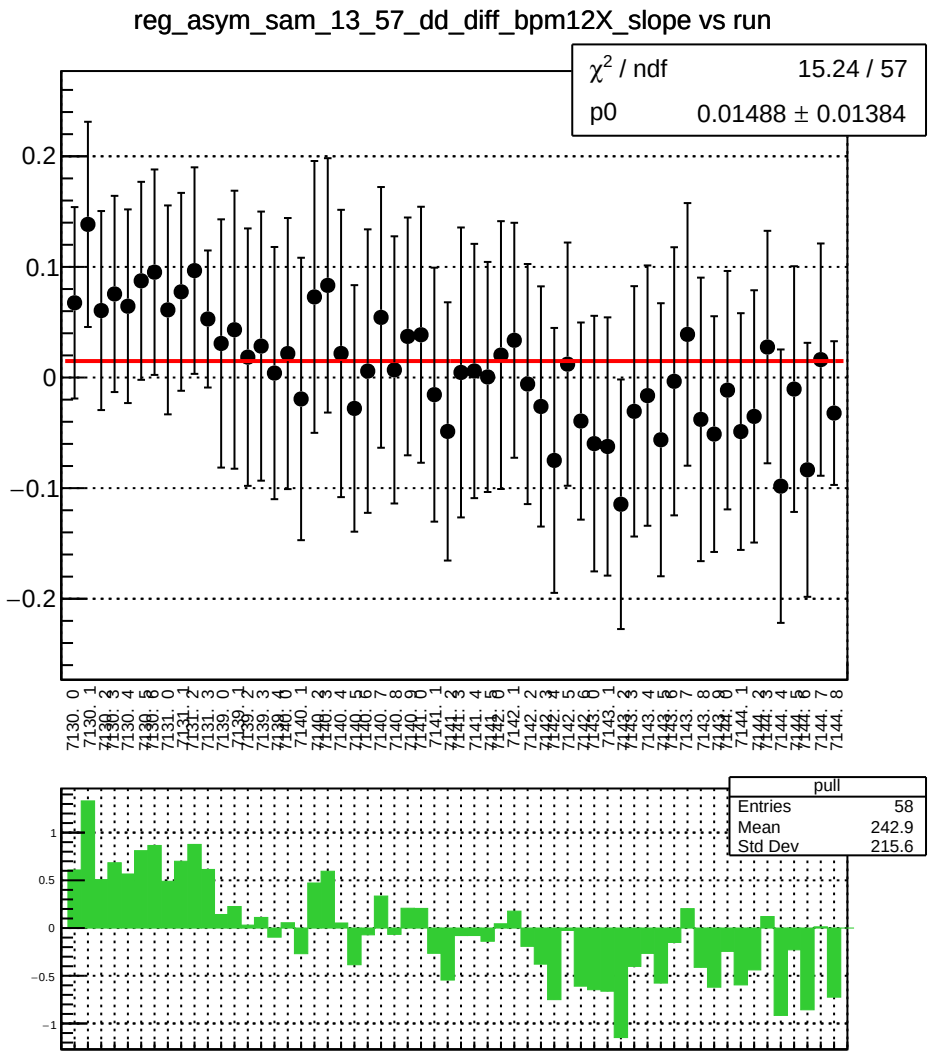

pull1D
Entries 58
Mean 0.007383
Std Dev 0.2712

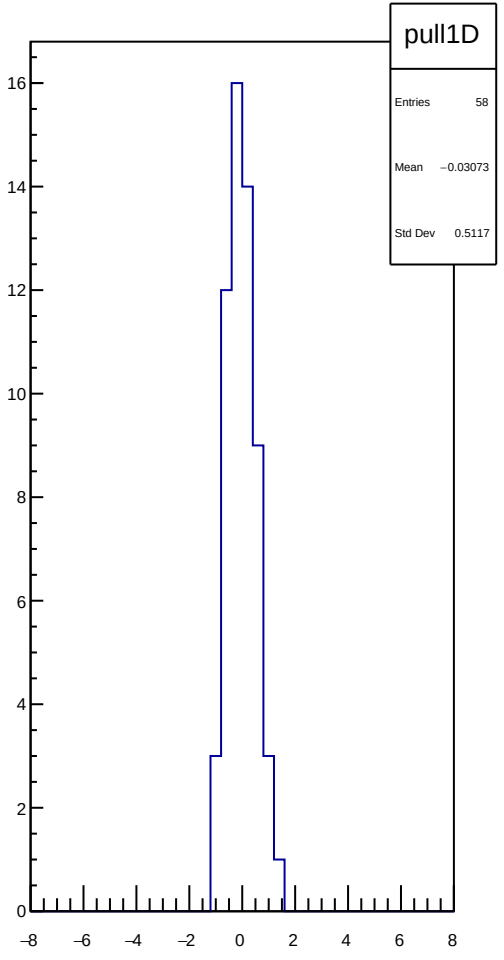

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.17 / 57
p0 −5.192 ± 0.3175
pull
Entries 58
Mean 46
Std Dev 11.97

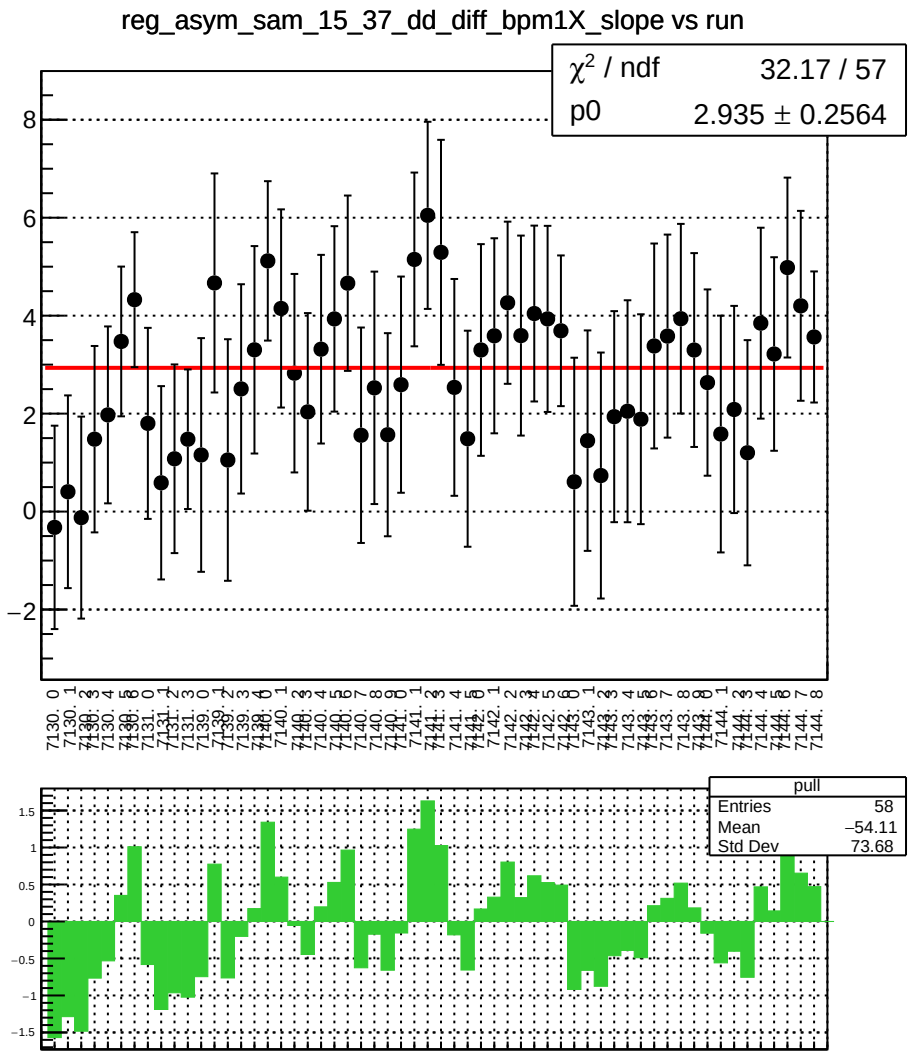

pull1D
Entries 58
Mean 0.04254
Std Dev 0.4924

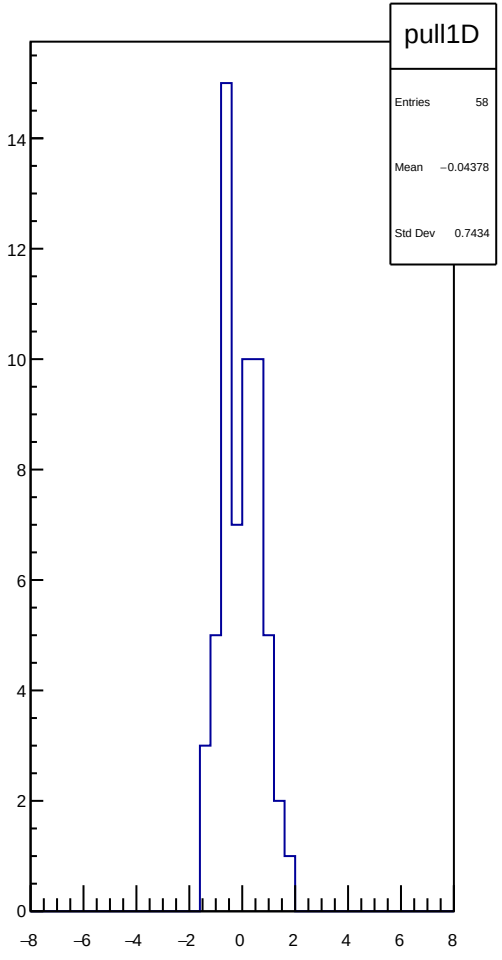

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.138 / 57
p0 −11.09 ± 0.3013
pull
Entries 58
Mean 31.21
Std Dev 34.77

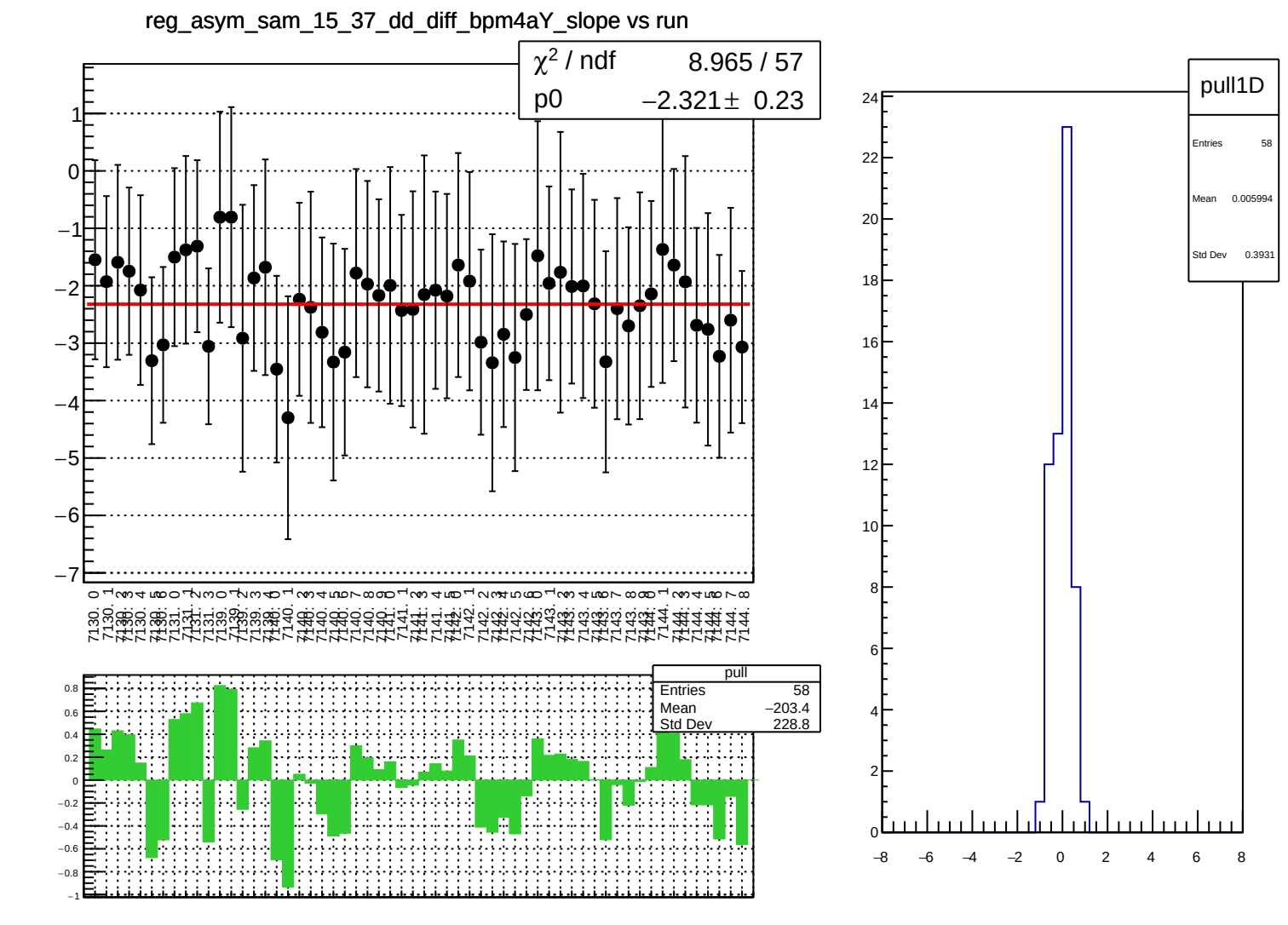

pull1D
Entries 58
Mean −0.01162
Std Dev 0.2974

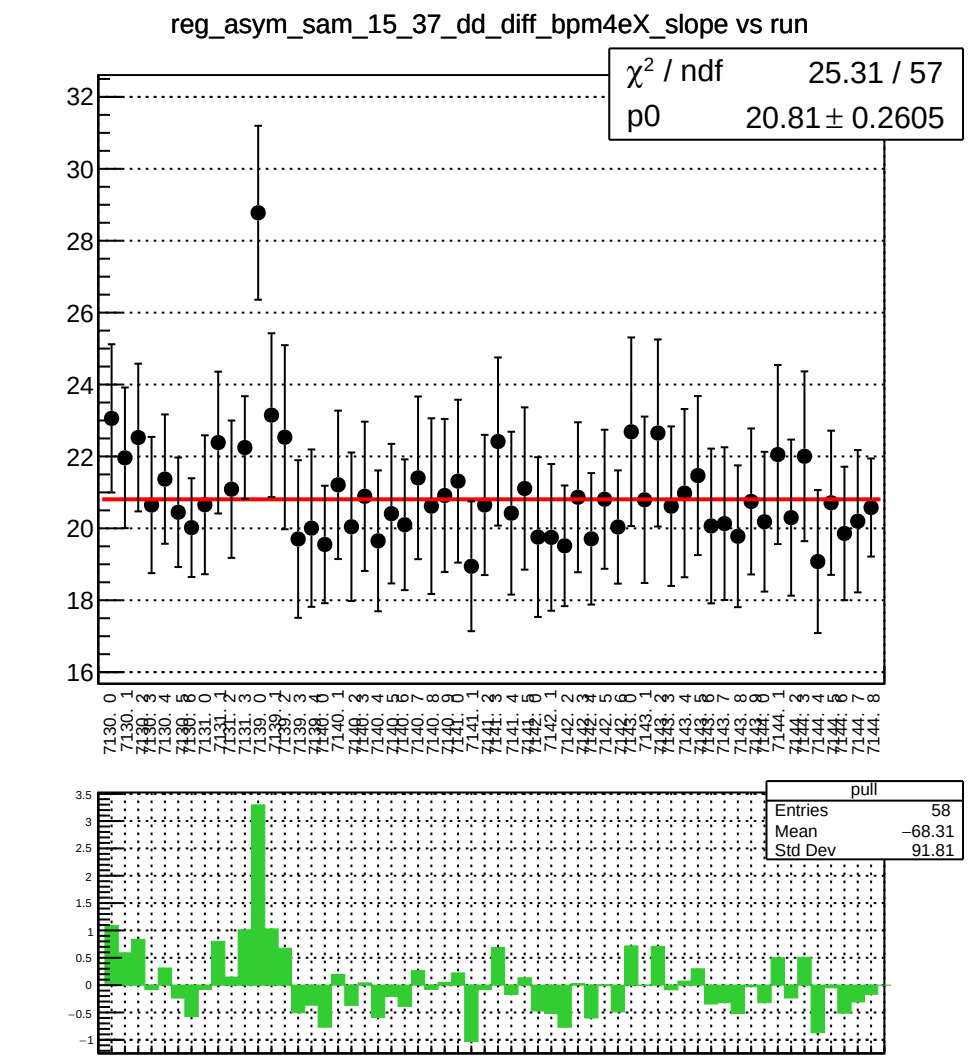

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 15.24 / 57
p0 0.01488 ± 0.01384
pull
Entries 58
Mean 242.9
Std Dev 215.6

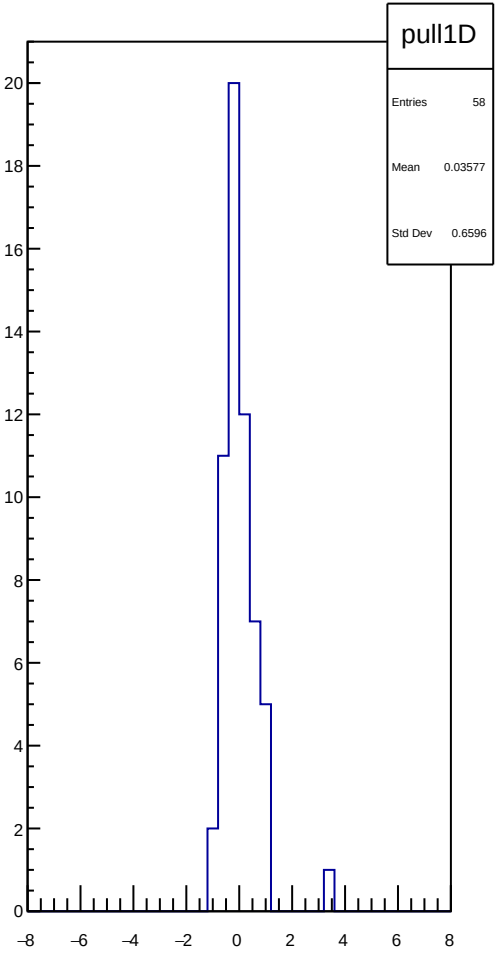

pull1D
Entries 58
Mean −0.03073
Std Dev 0.5117

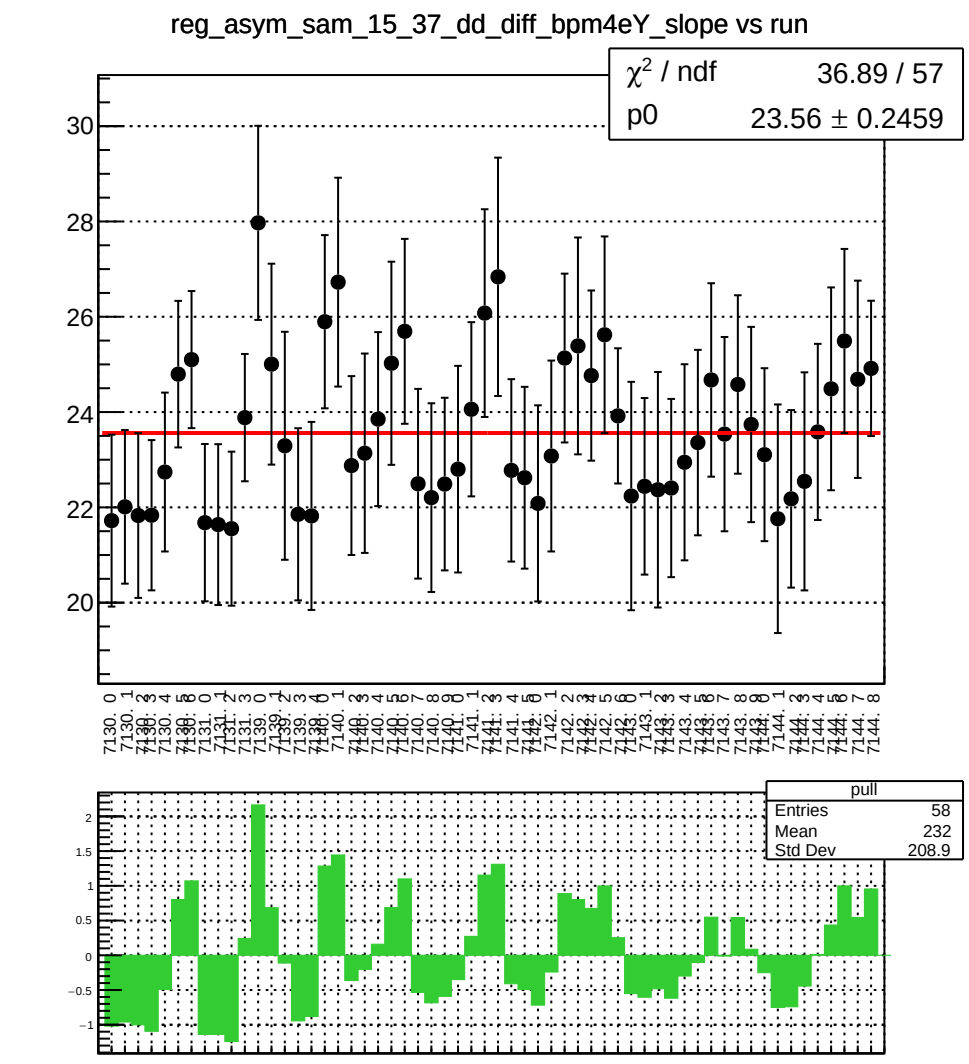

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 32.17 / 57
p0 2.935 ± 0.2564
pull
Entries 58
Mean −54.11
Std Dev 73.68

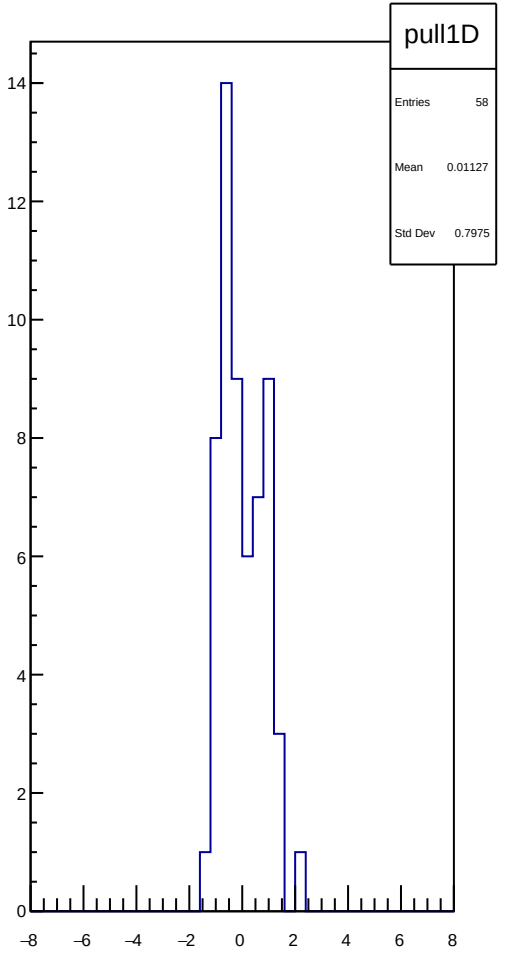

pull1D
Entries 58
Mean −0.04378
Std Dev 0.7434

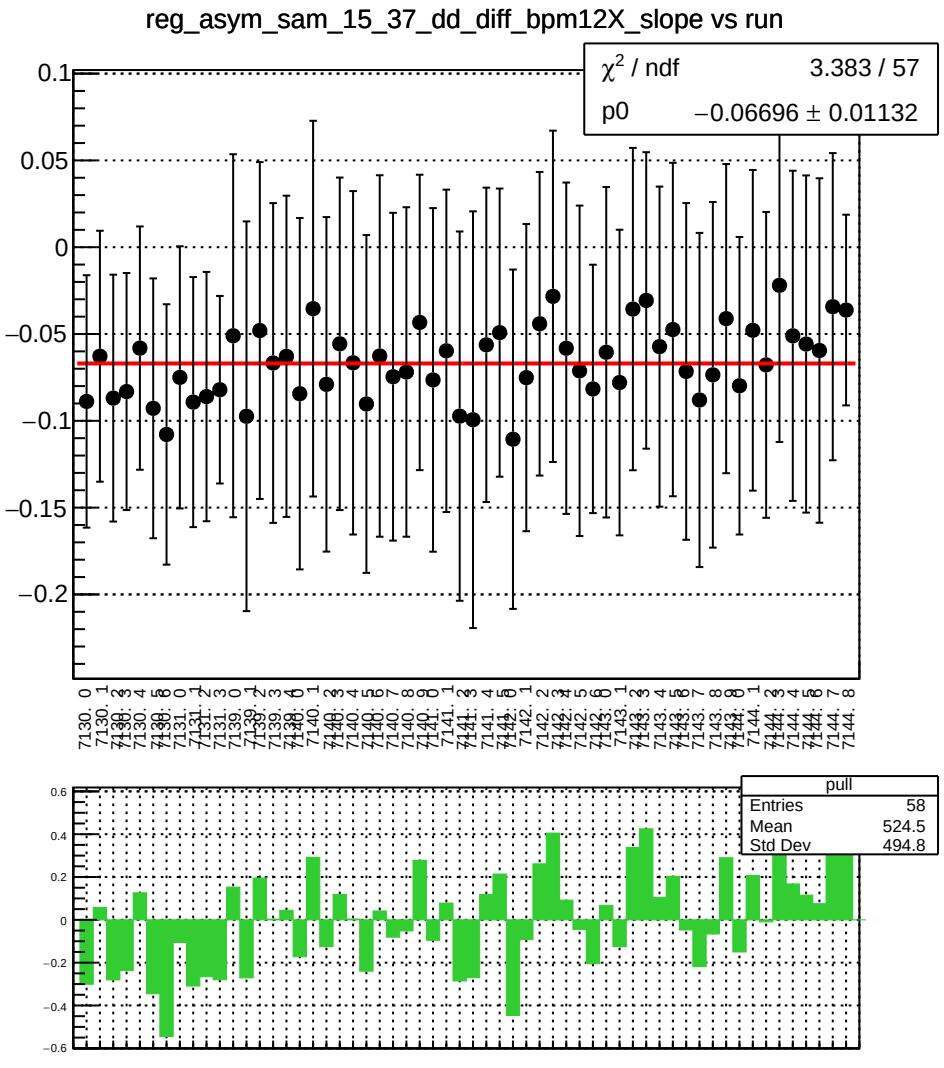

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.965 / 57
p0 −2.321 ± 0.23
pull
Entries 58
Mean −203.4
Std Dev 228.8
pull1D
Entries 58
Mean 0.005994
Std Dev 0.3931

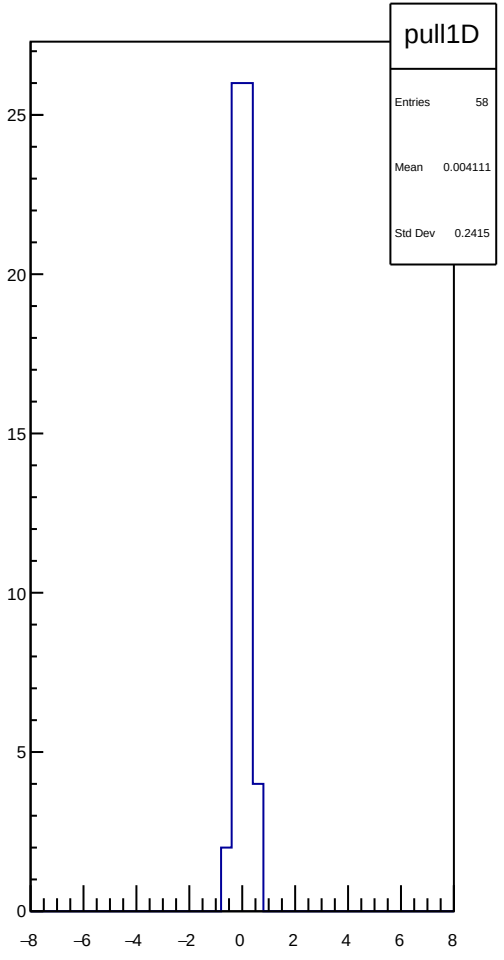

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.31 / 57
p0 20.81 ± 0.2605
pull
Entries 58
Mean −68.31
Std Dev 91.81

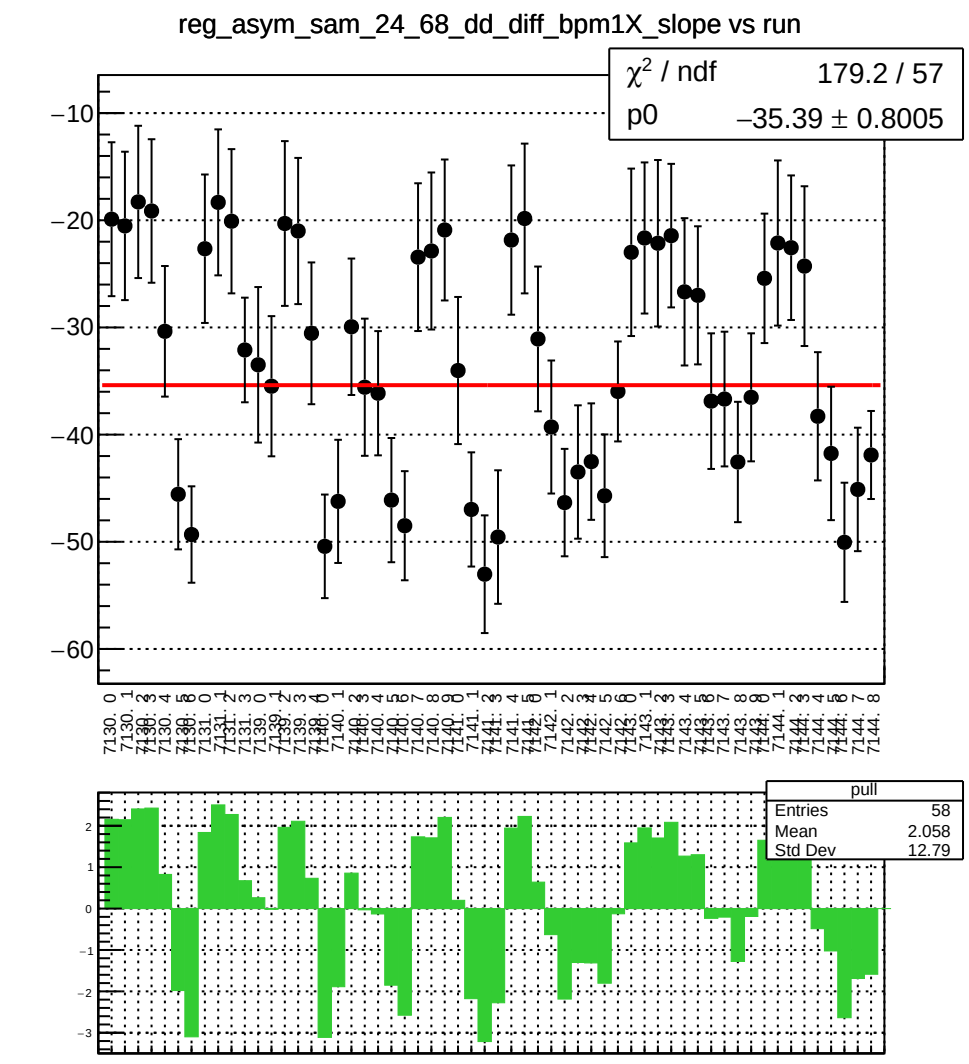

pull1D
Entries 58
Mean 0.03577
Std Dev 0.6596

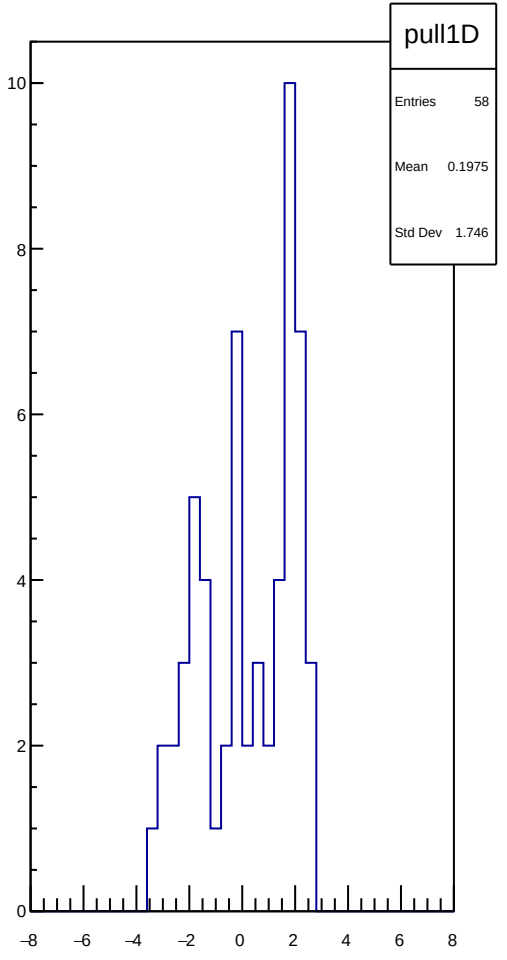

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.89 / 57
p0 23.56 ± 0.2459
pull
Entries 58
Mean 232
Std Dev 208.9

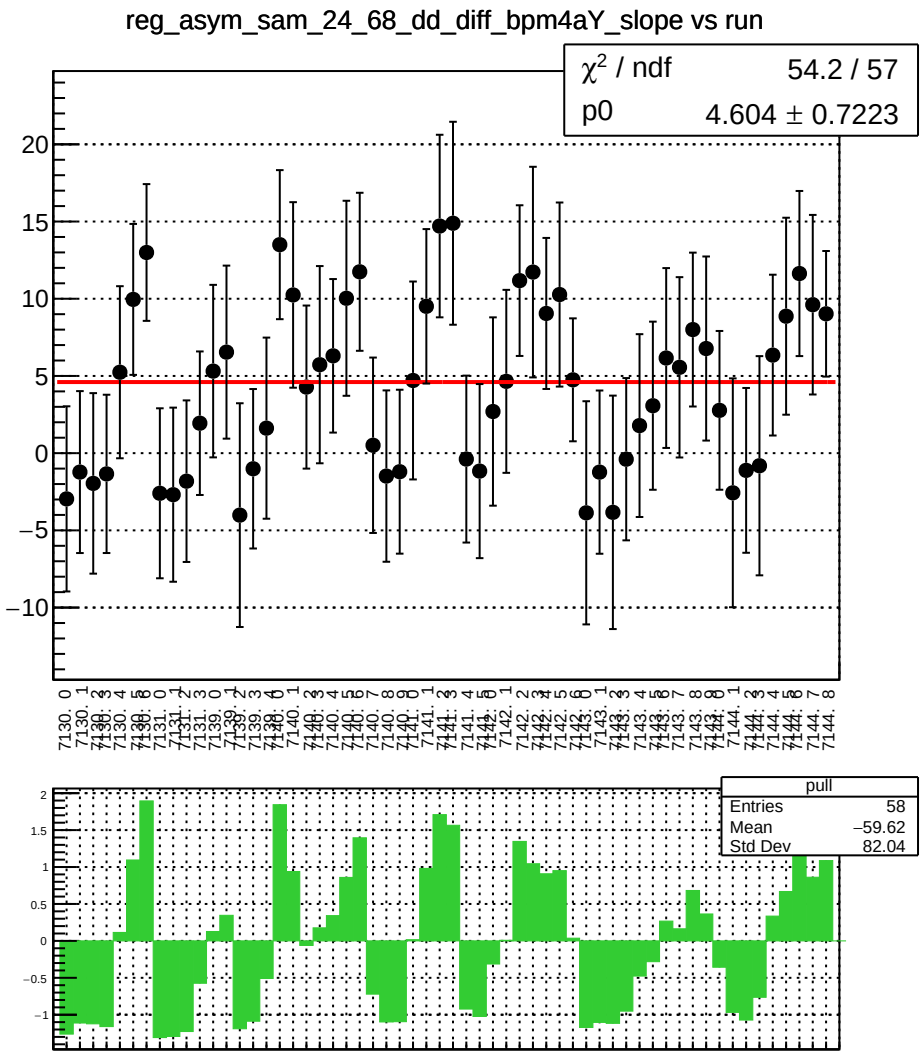

pull1D
Entries 58
Mean 0.01127
Std Dev 0.7975

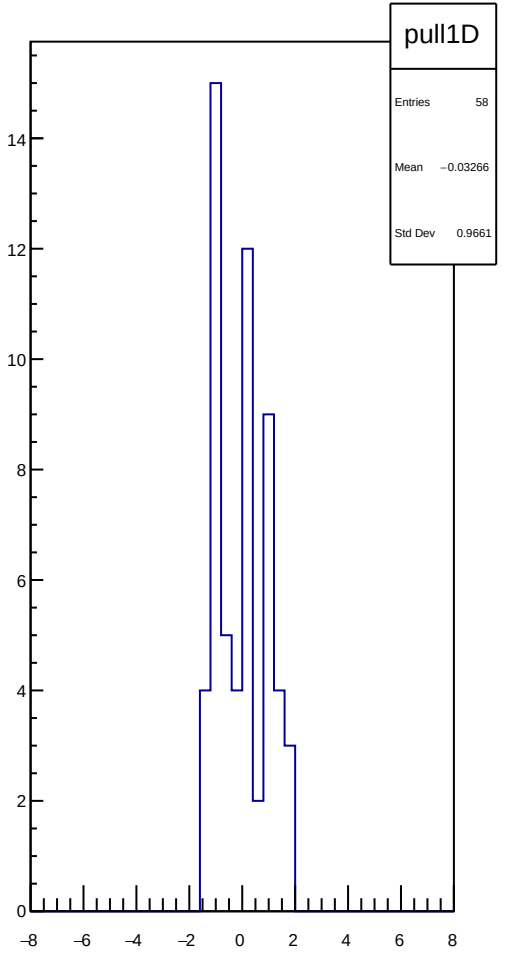

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.383 / 57
p0 −0.06696 ± 0.01132
pull
Entries 58
Mean 524.5
Std Dev 494.8

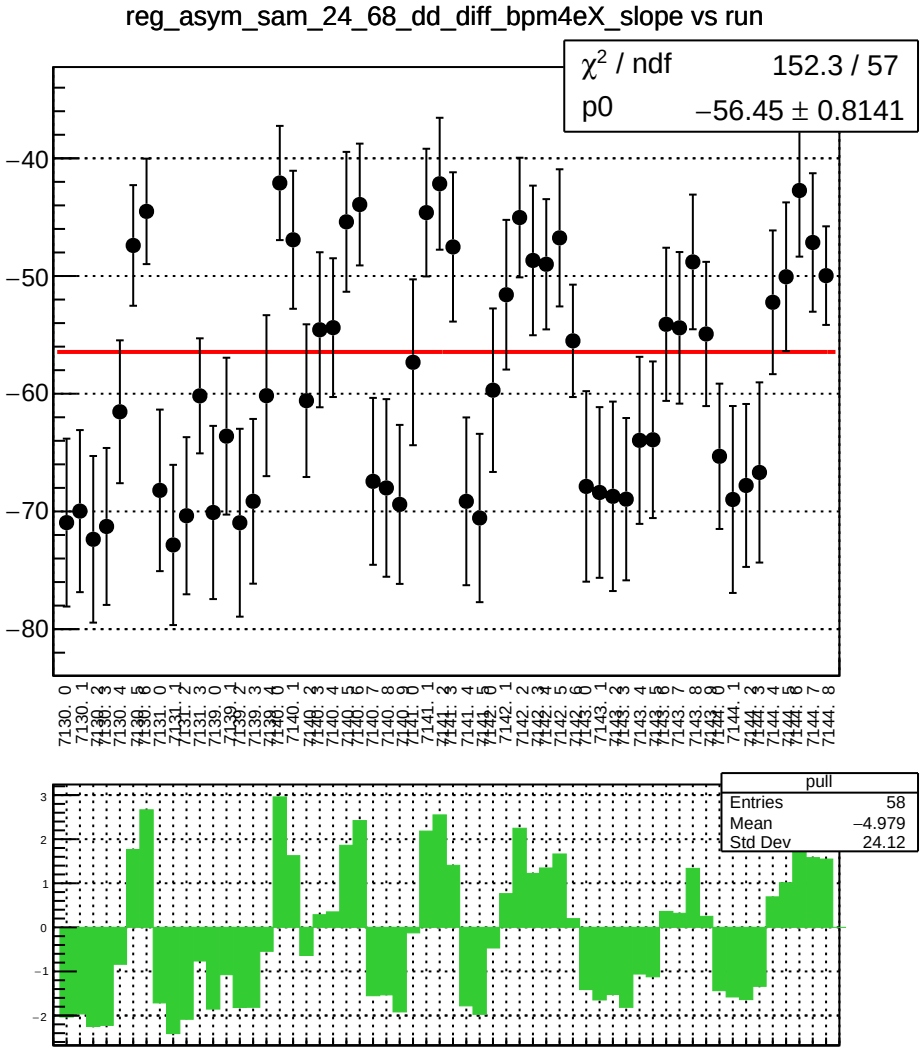

pull1D
Entries 58
Mean 0.004111
Std Dev 0.2415

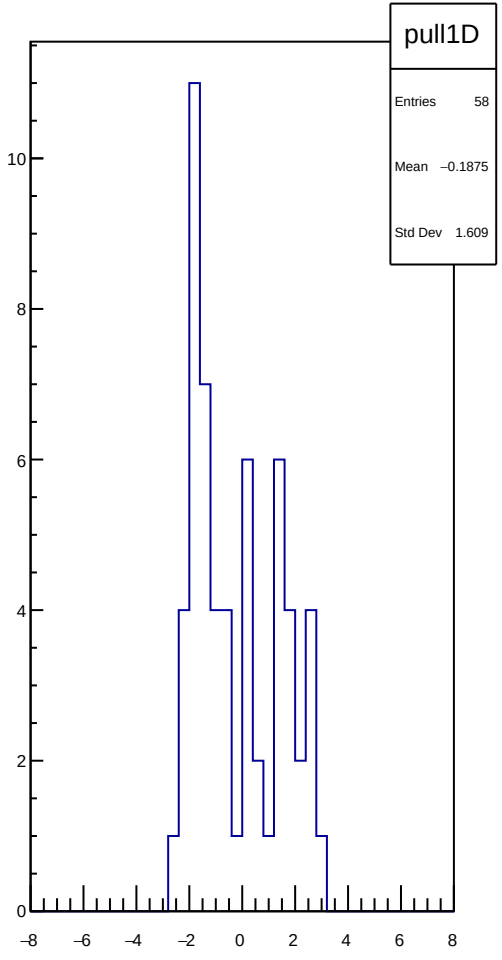

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 179.2 / 57
p0 −35.39 ± 0.8005
pull
Entries 58
Mean 2.058
Std Dev 12.79

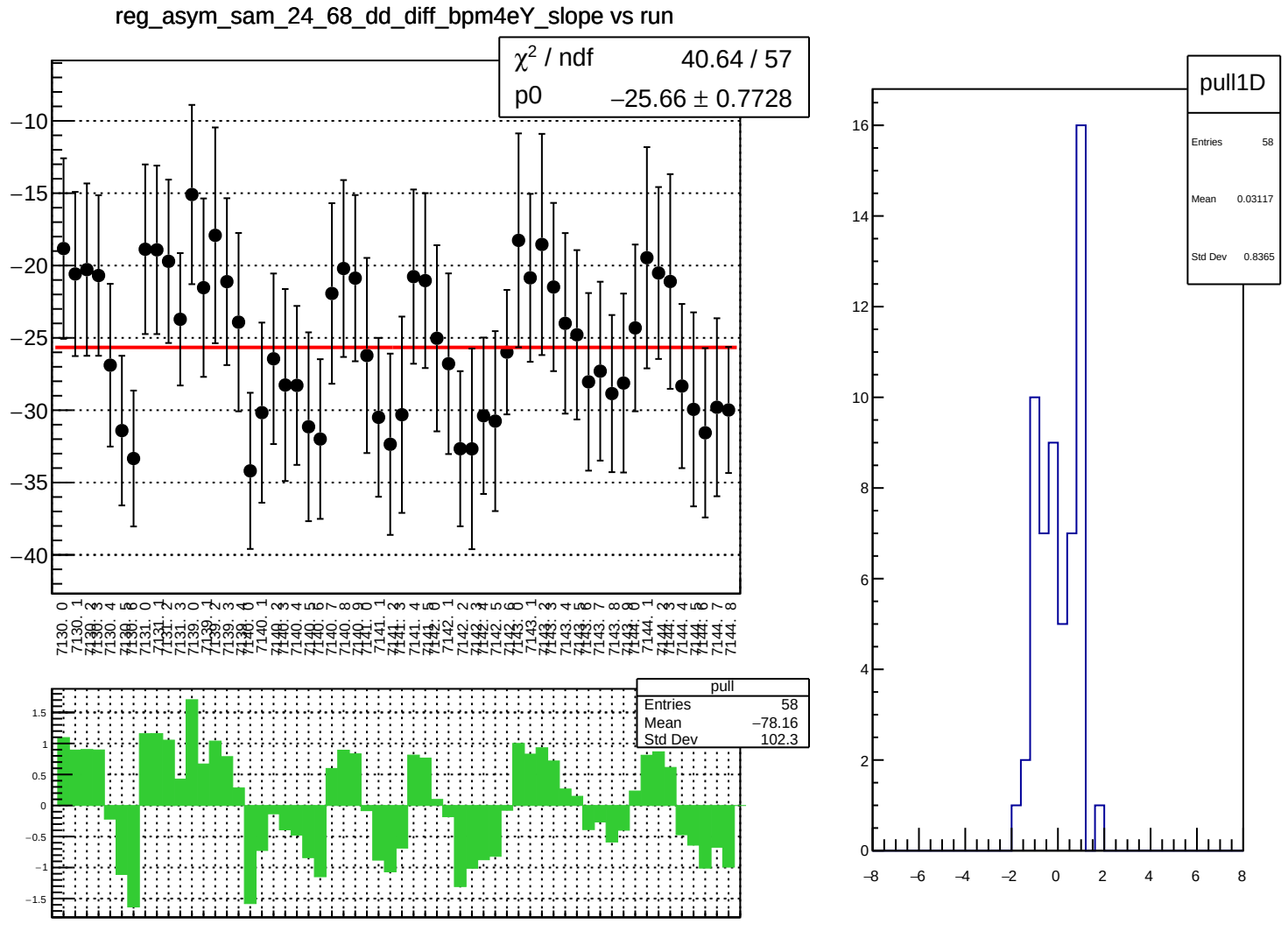

pull1D
Entries 58
Mean 0.1975
Std Dev 1.746

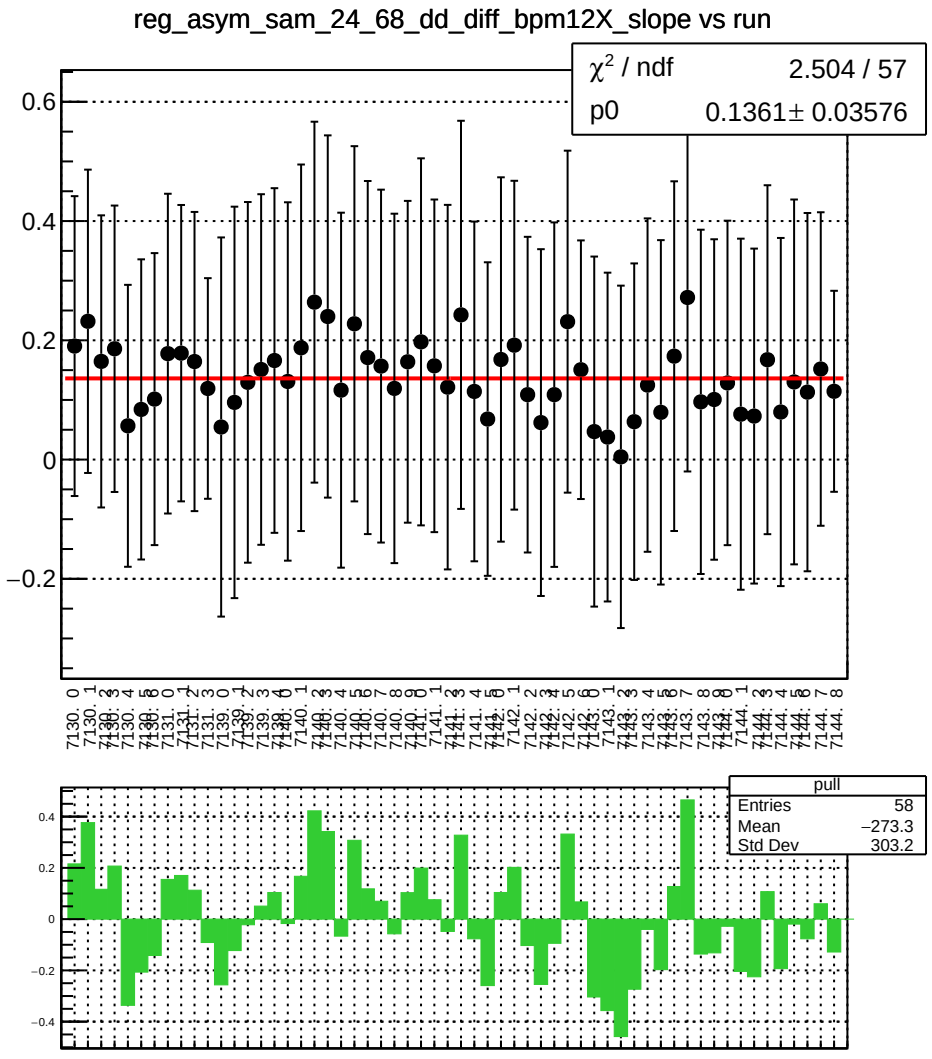

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.2 / 57
p0 4.604 ± 0.7223
pull
Entries 58
Mean −59.62
Std Dev 82.04

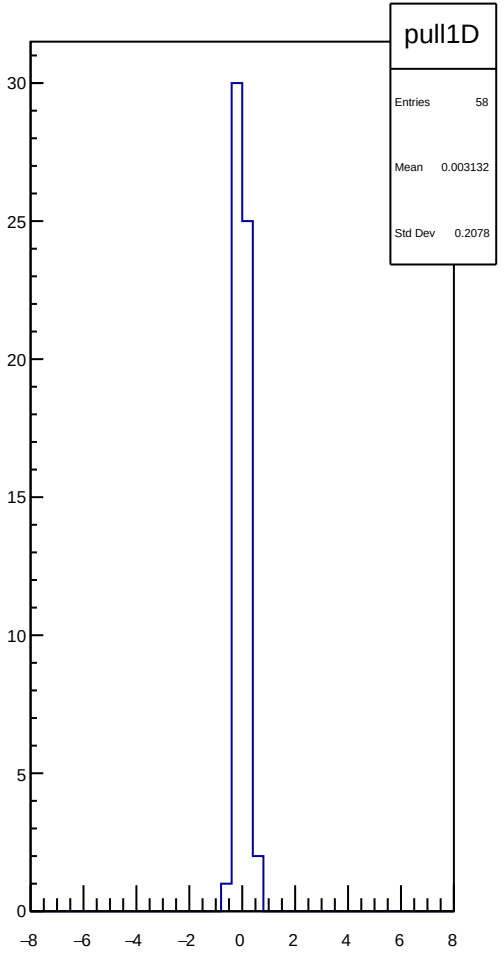

pull1D
Entries 58
Mean −0.03266
Std Dev 0.9661

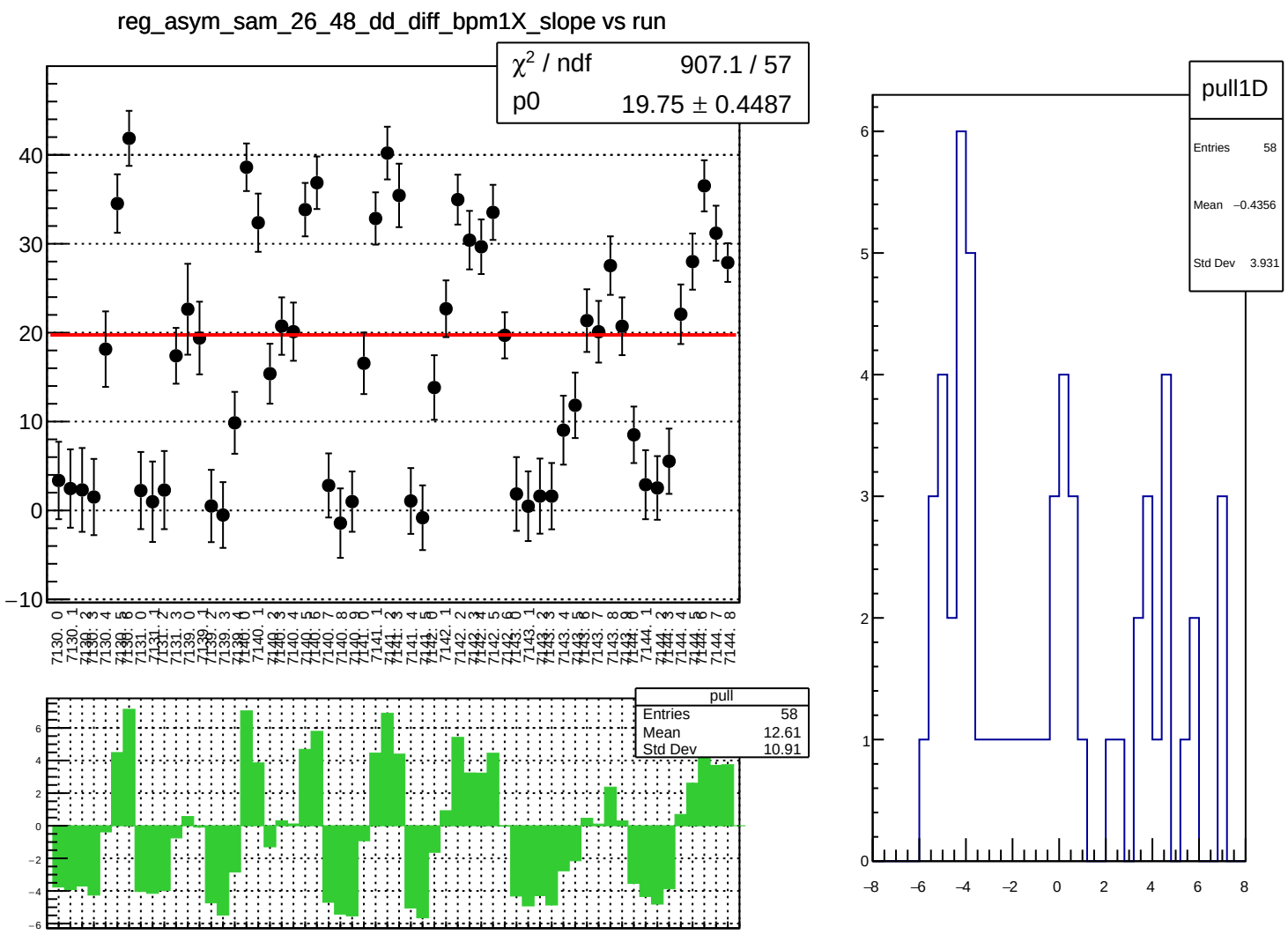

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 152.3 / 57
p0 −56.45 ± 0.8141
pull
Entries 58
Mean −4.979
Std Dev 24.12

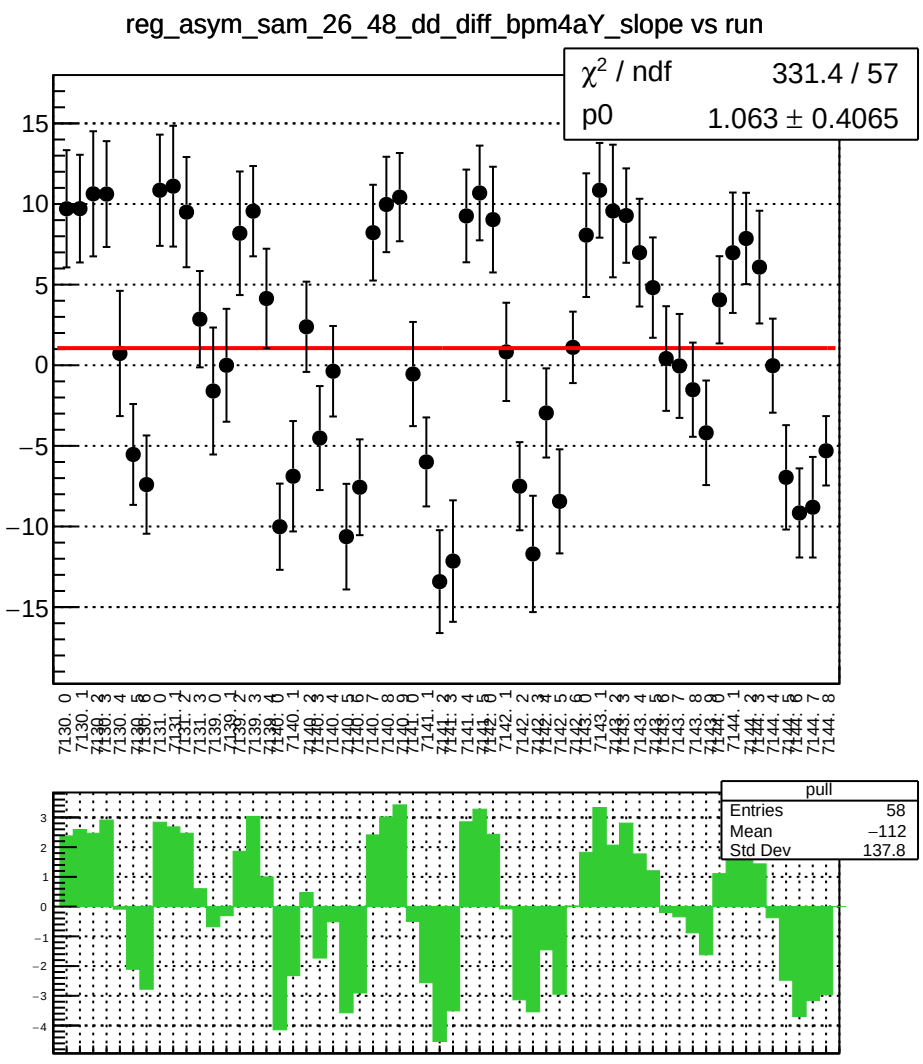

pull1D
Entries 58
Mean −0.1875
Std Dev 1.609

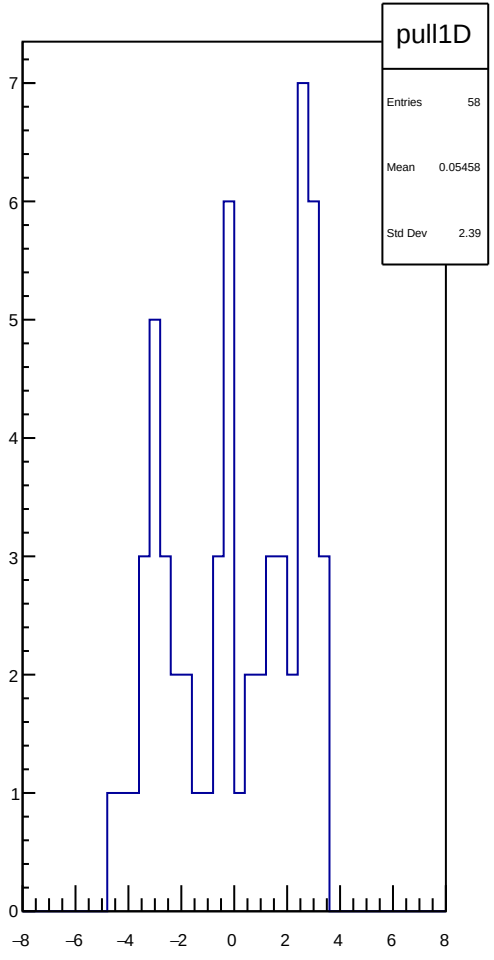

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.64 / 57
p0 −25.66 ± 0.7728
pull
Entries 58
Mean −78.16
Std Dev 102.3
pull1D
Entries 58
Mean 0.03117
Std Dev 0.8365

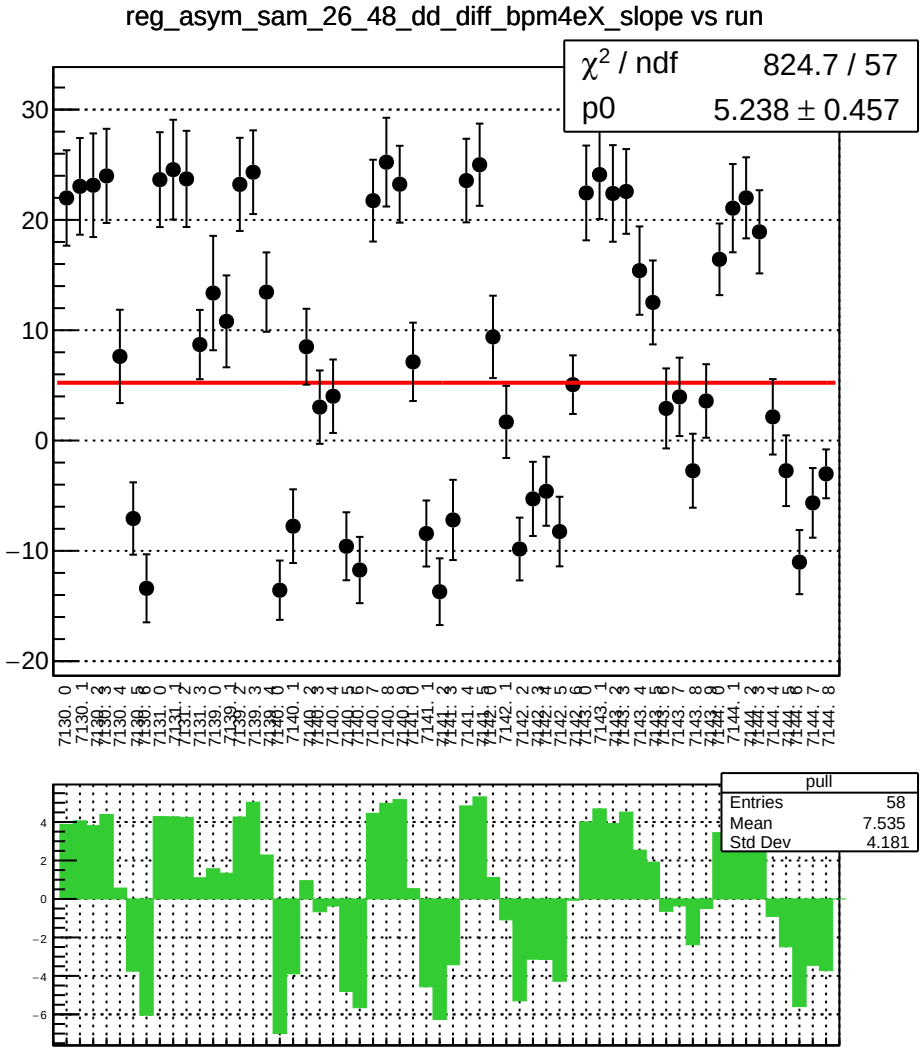

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 2.504 / 57
p0 0.1361± 0.03576
pull
Entries 58
Mean −273.3
Std Dev 303.2

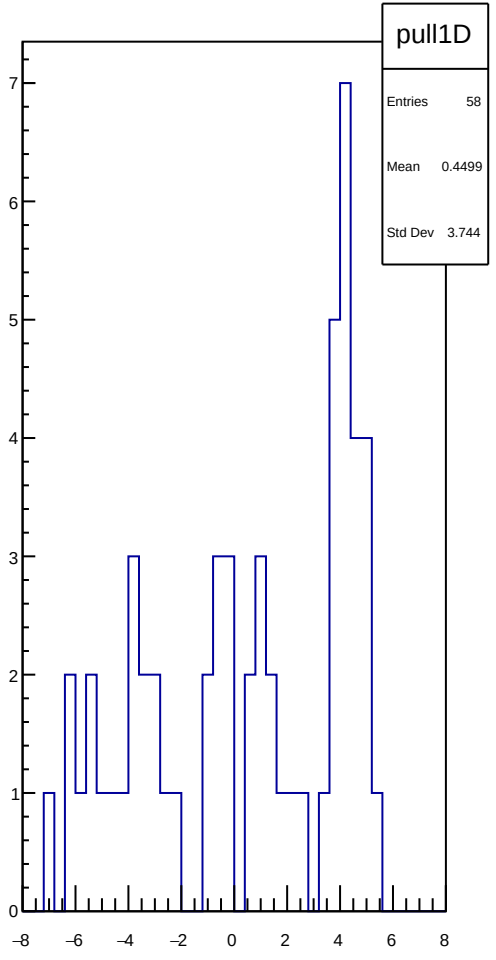

pull1D
Entries 58
Mean 0.003132
Std Dev 0.2078

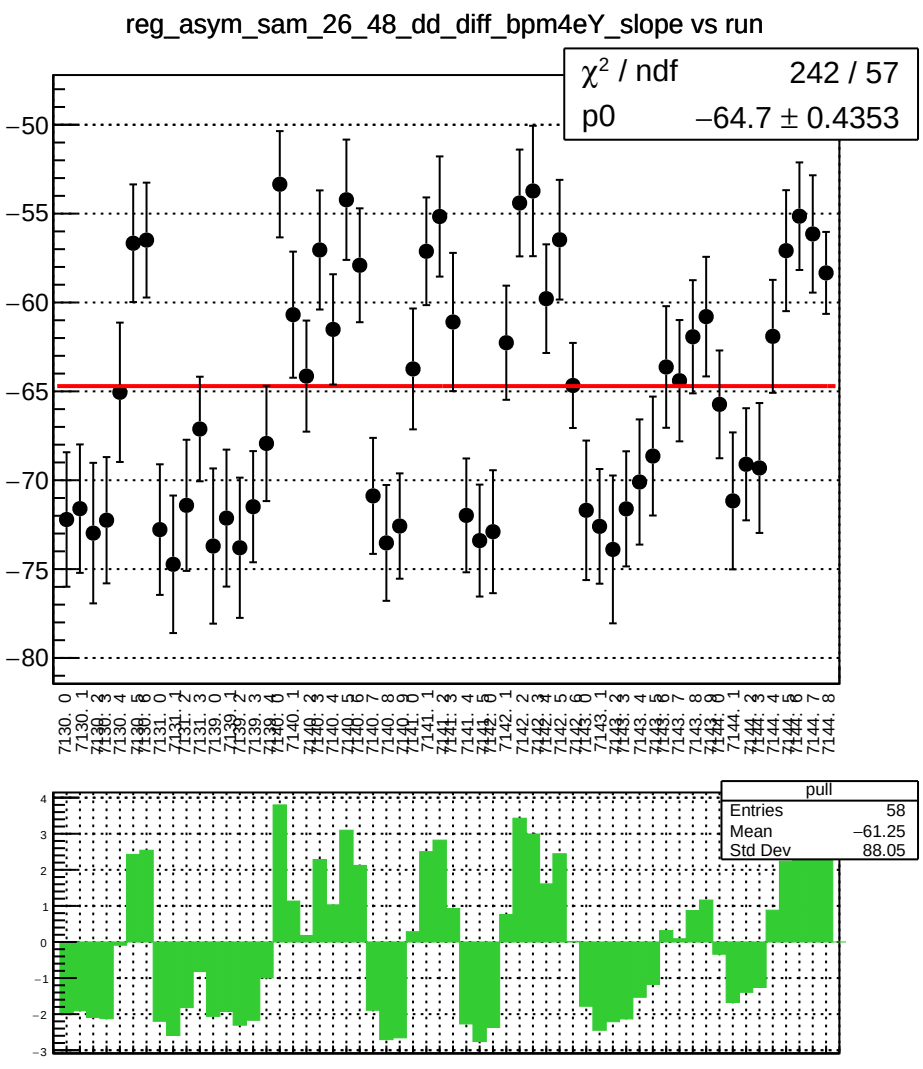

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 907.1 / 57
p0 19.75 ± 0.4487
pull
Entries 58
Mean 12.61
Std Dev 10.91
pull1D
Entries 58
Mean −0.4356
Std Dev 3.931

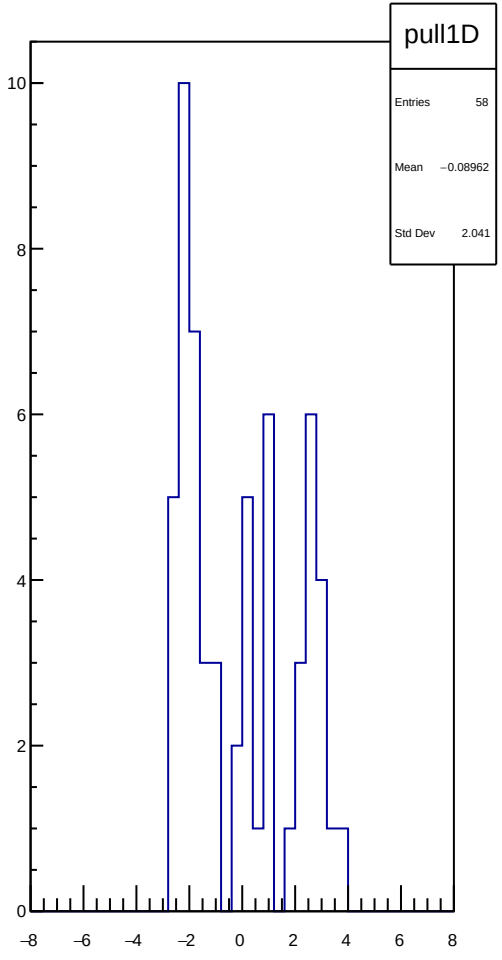

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 331.4 / 57
p0 1.063 ± 0.4065
pull
Entries 58
Mean −112
Std Dev 137.8

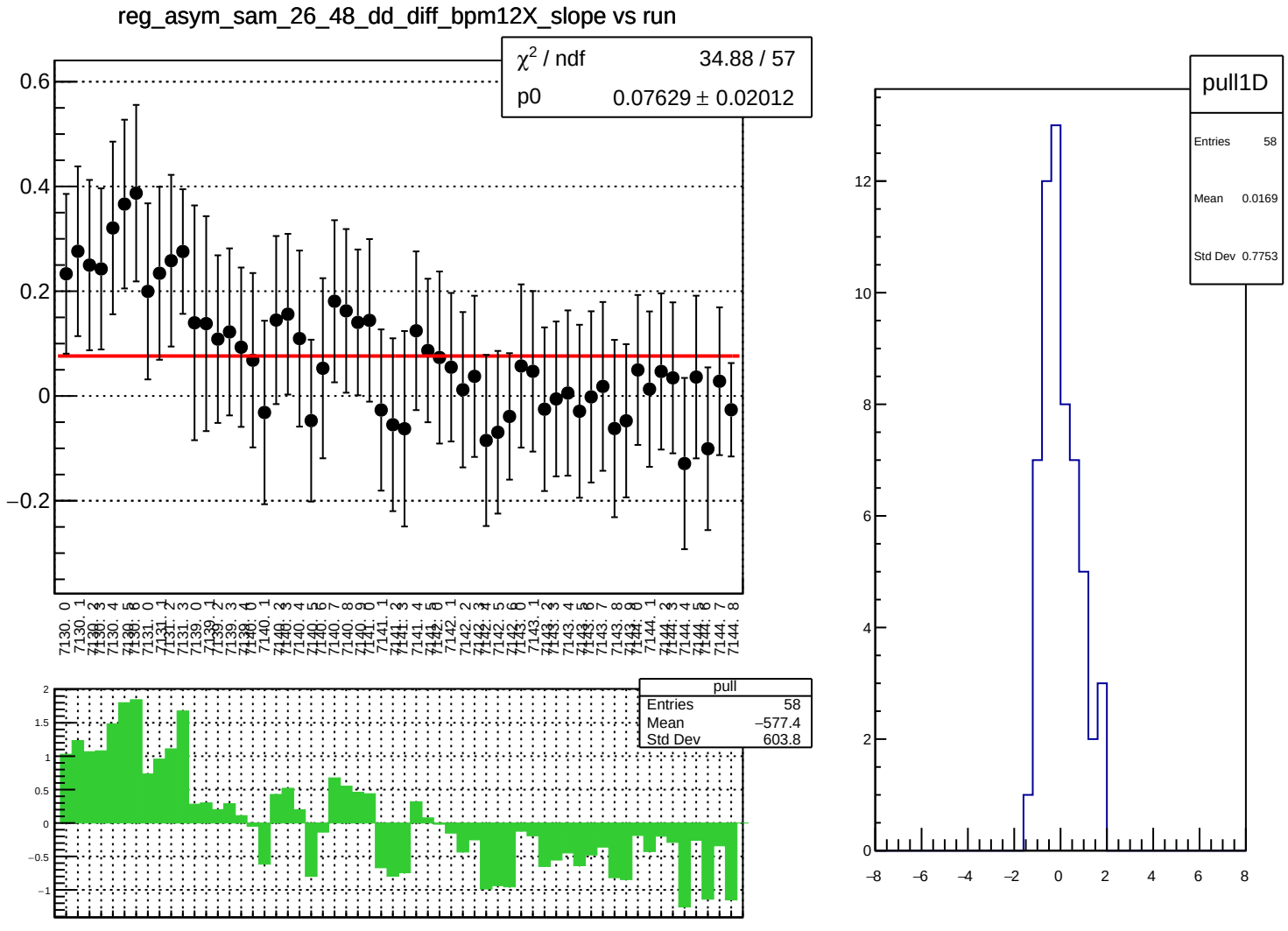

pull1D
Entries 58
Mean 0.05458
Std Dev 2.39

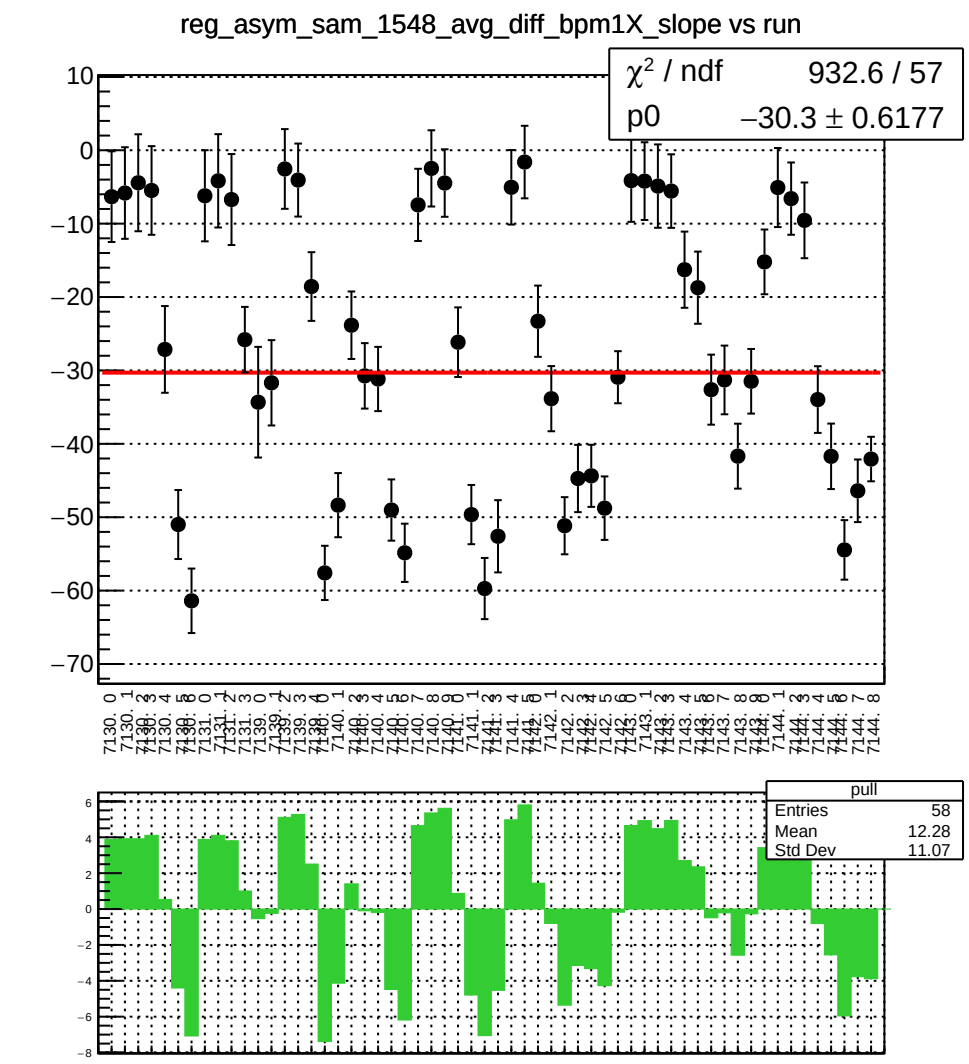

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 824.7 / 57
p0 5.238 ± 0.457
pull
Entries 58
Mean 7.535
Std Dev 4.181

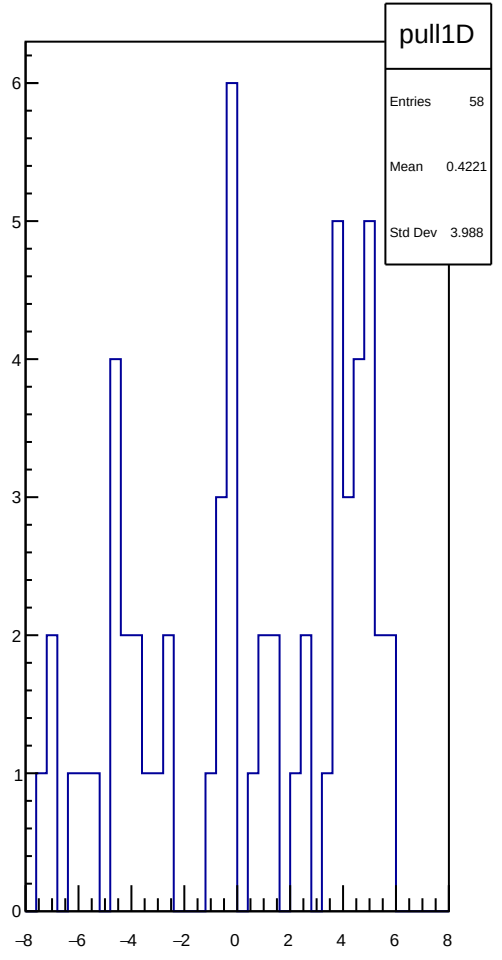

pull1D
Entries 58
Mean 0.4499
Std Dev 3.744

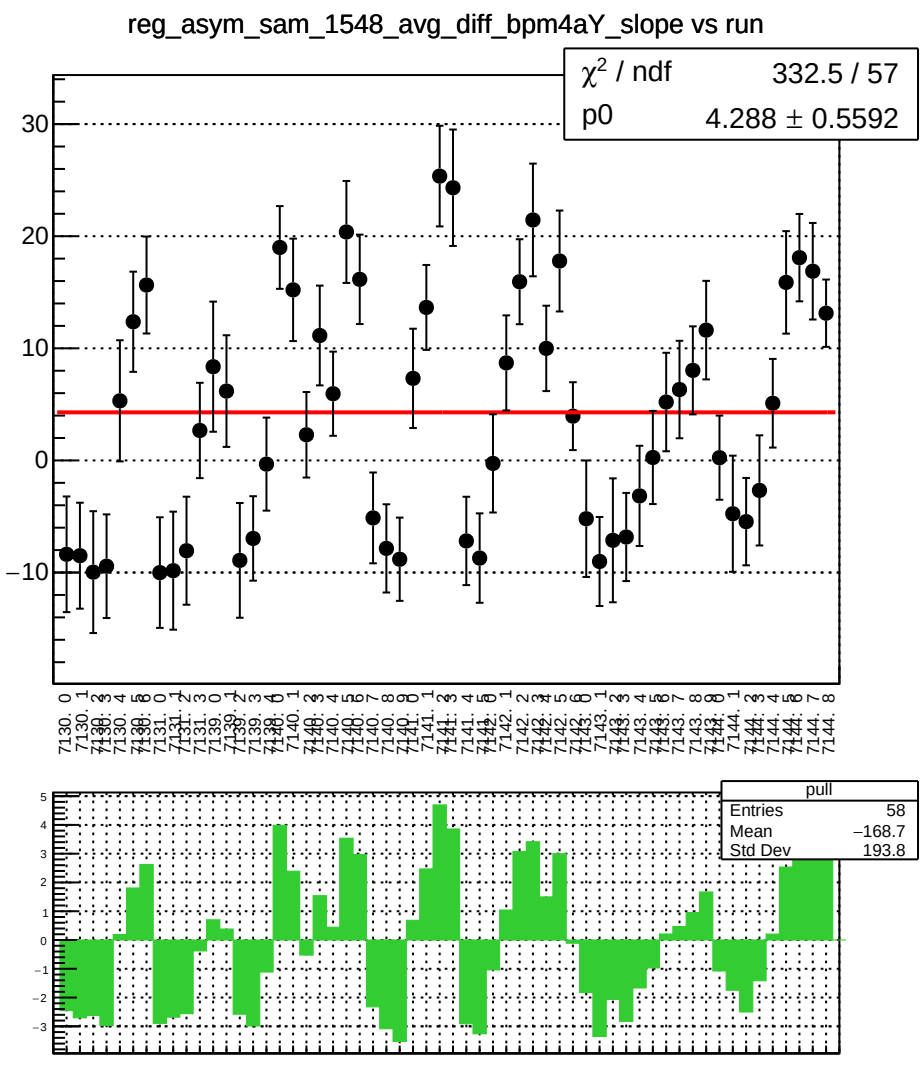

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 242 / 57
p0 −64.7 ± 0.4353
pull
Entries 58
Mean −61.25
Std Dev 88.05

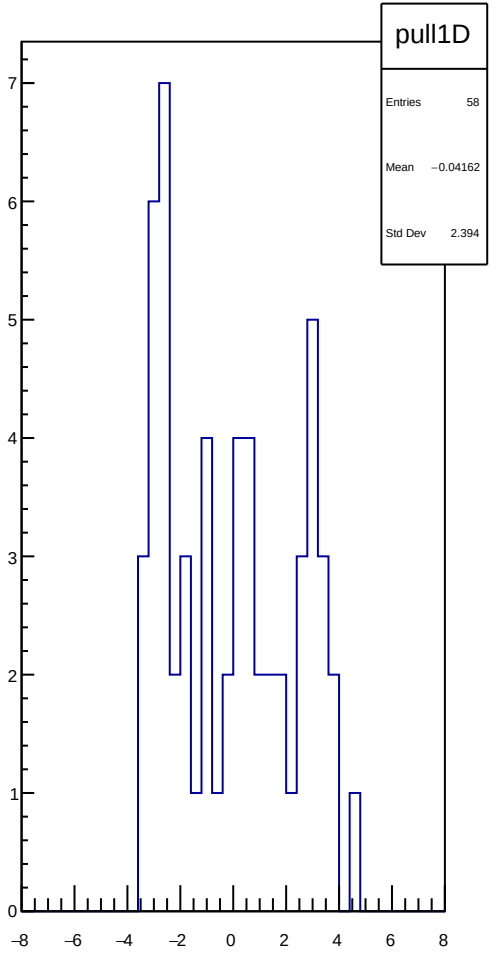

pull1D
Entries 58
Mean −0.08962
Std Dev 2.041

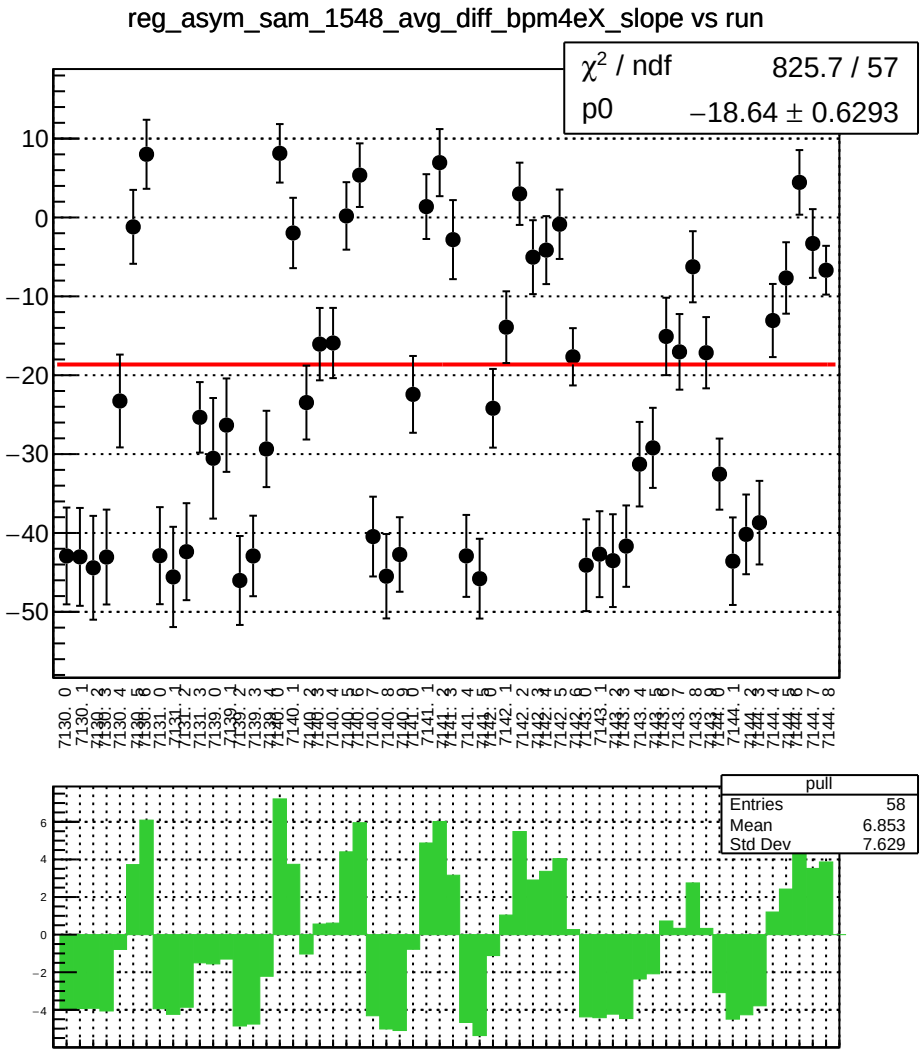

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 34.88 / 57
p0 0.07629 ± 0.02012
pull
Entries 58
Mean −577.4
Std Dev 603.8
pull1D
Entries 58
Mean 0.0169
Std Dev 0.7753

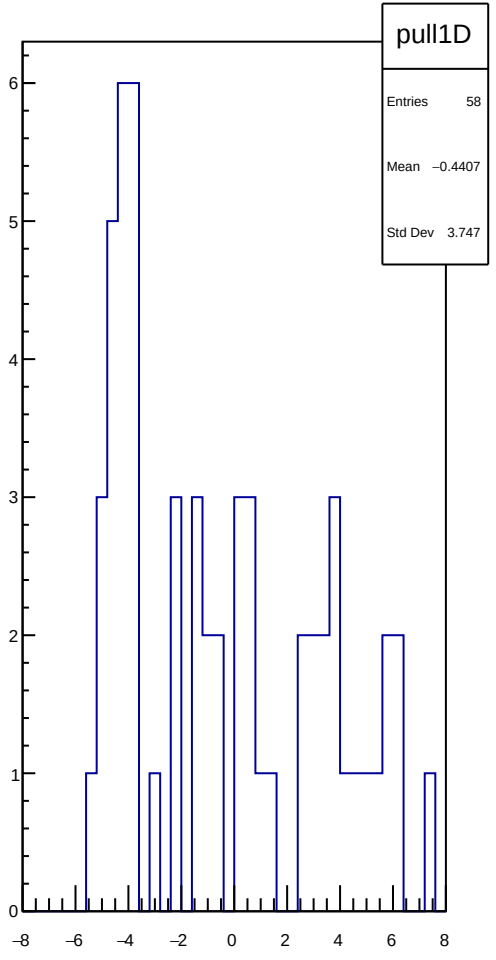

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 932.6 / 57
p0 −30.3 ± 0.6177
pull
Entries 58
Mean 12.28
Std Dev 11.07

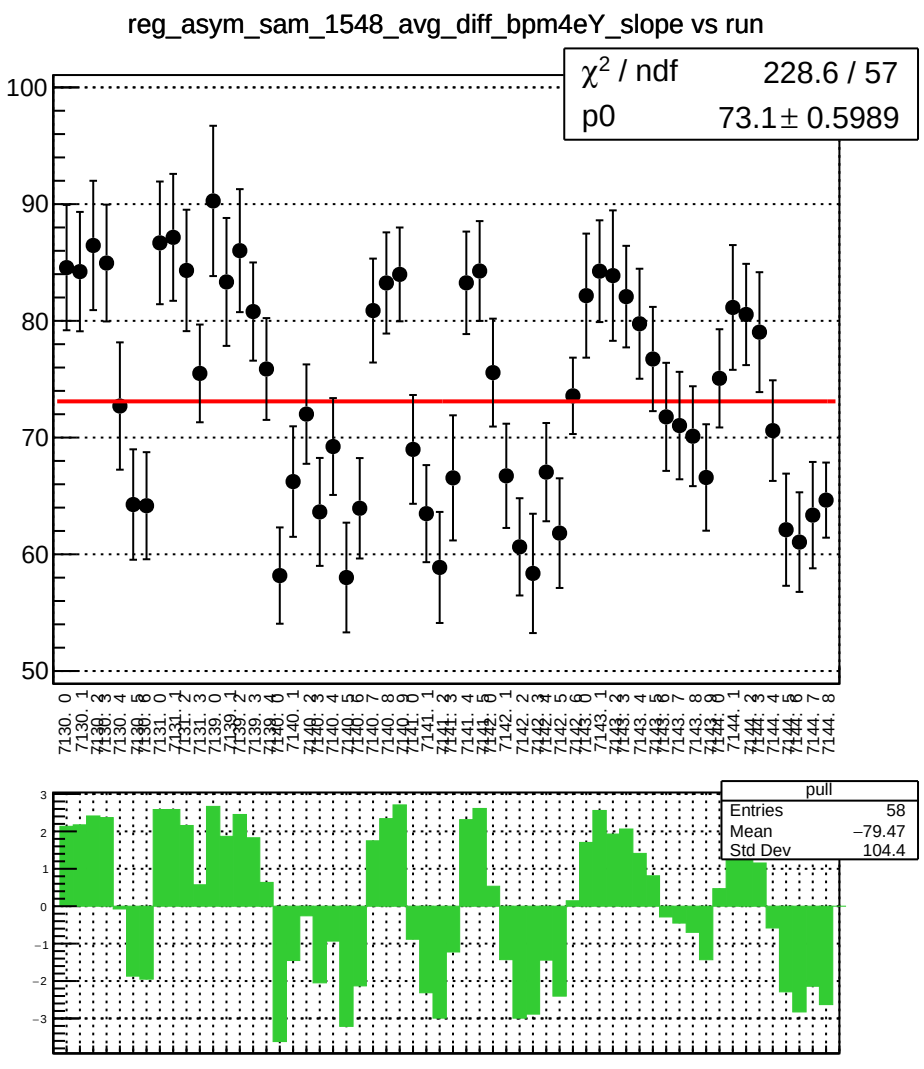

pull1D
Entries 58
Mean 0.4221
Std Dev 3.988

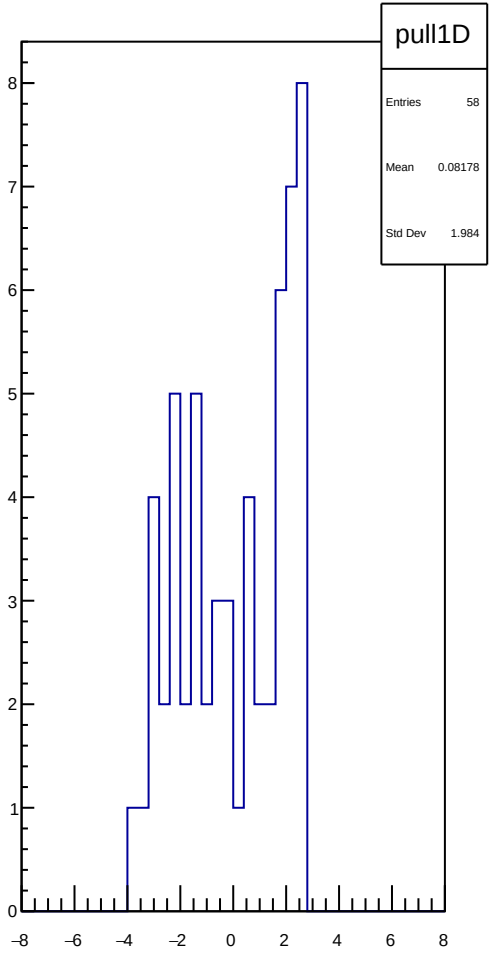

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 332.5 / 57
p0 4.288 ± 0.5592
pull
Entries 58
Mean −168.7
Std Dev 193.8

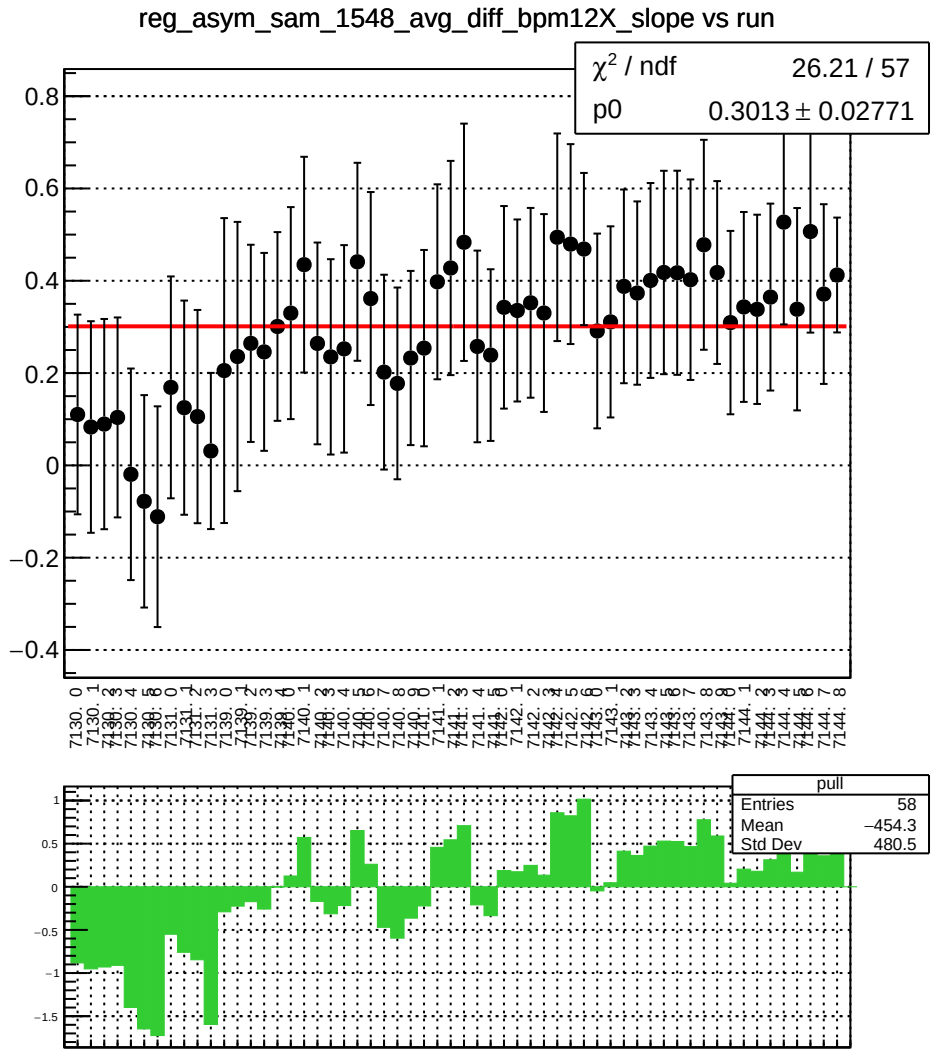

pull1D
Entries 58
Mean −0.04162
Std Dev 2.394

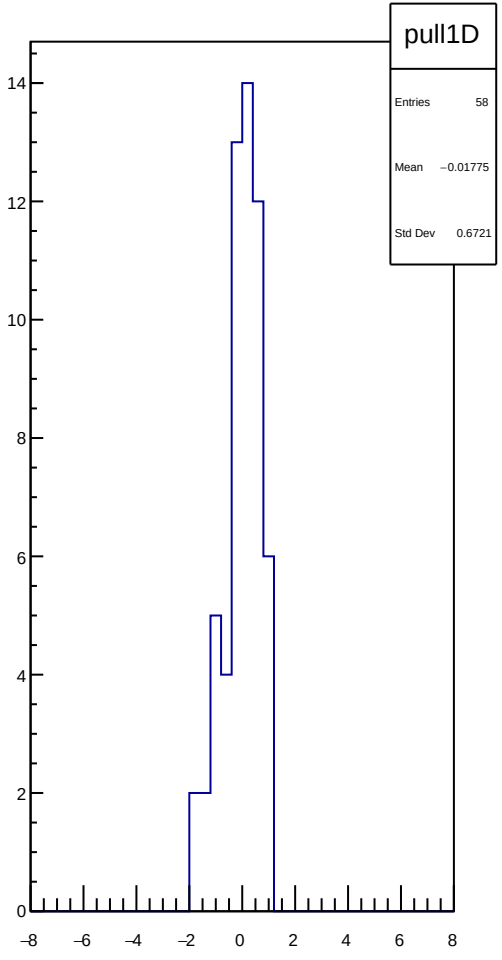

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 825.7 / 57
p0 −18.64 ± 0.6293
pull
Entries 58
Mean 6.853
Std Dev 7.629

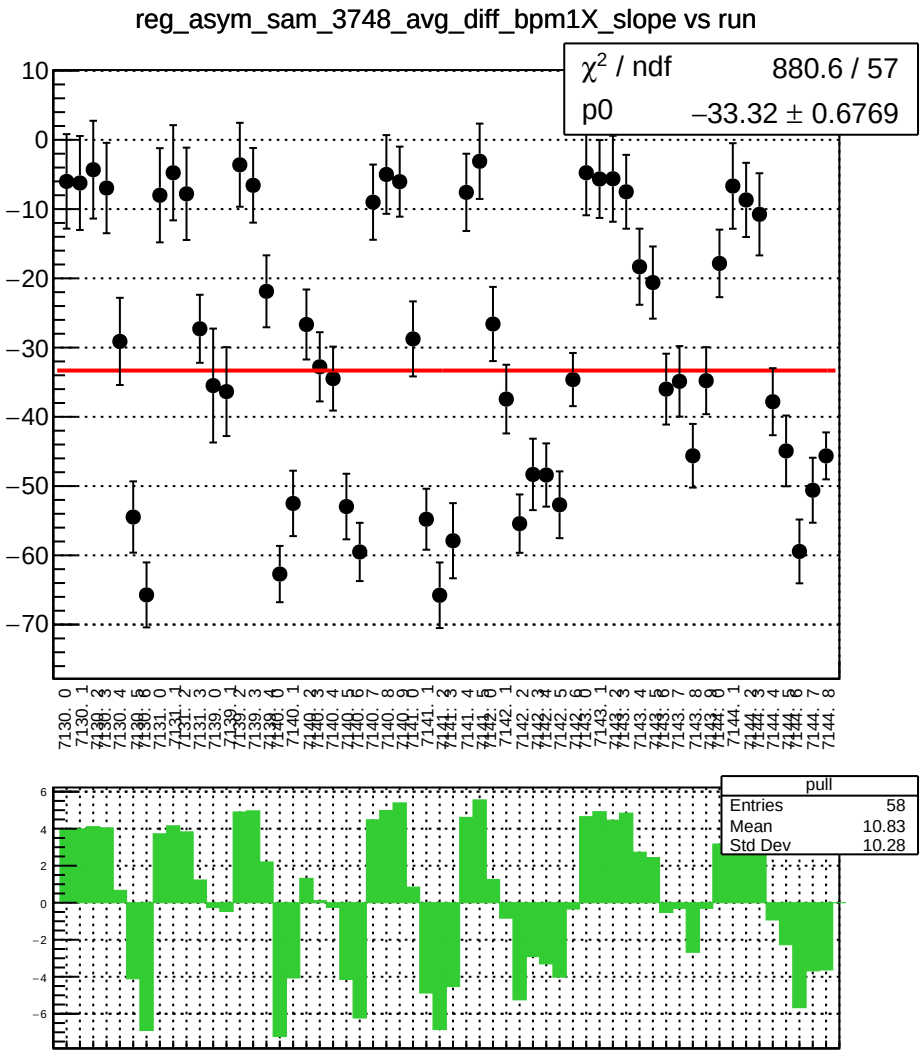

pull1D
Entries 58
Mean −0.4407
Std Dev 3.747

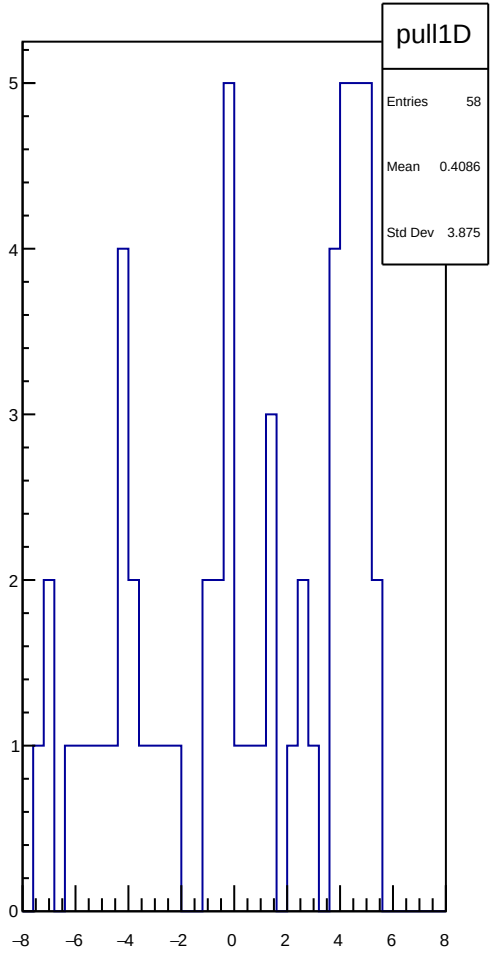

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 228.6 / 57
p0 73.1 ± 0.5989
pull
Entries 58
Mean −79.47
Std Dev 104.4

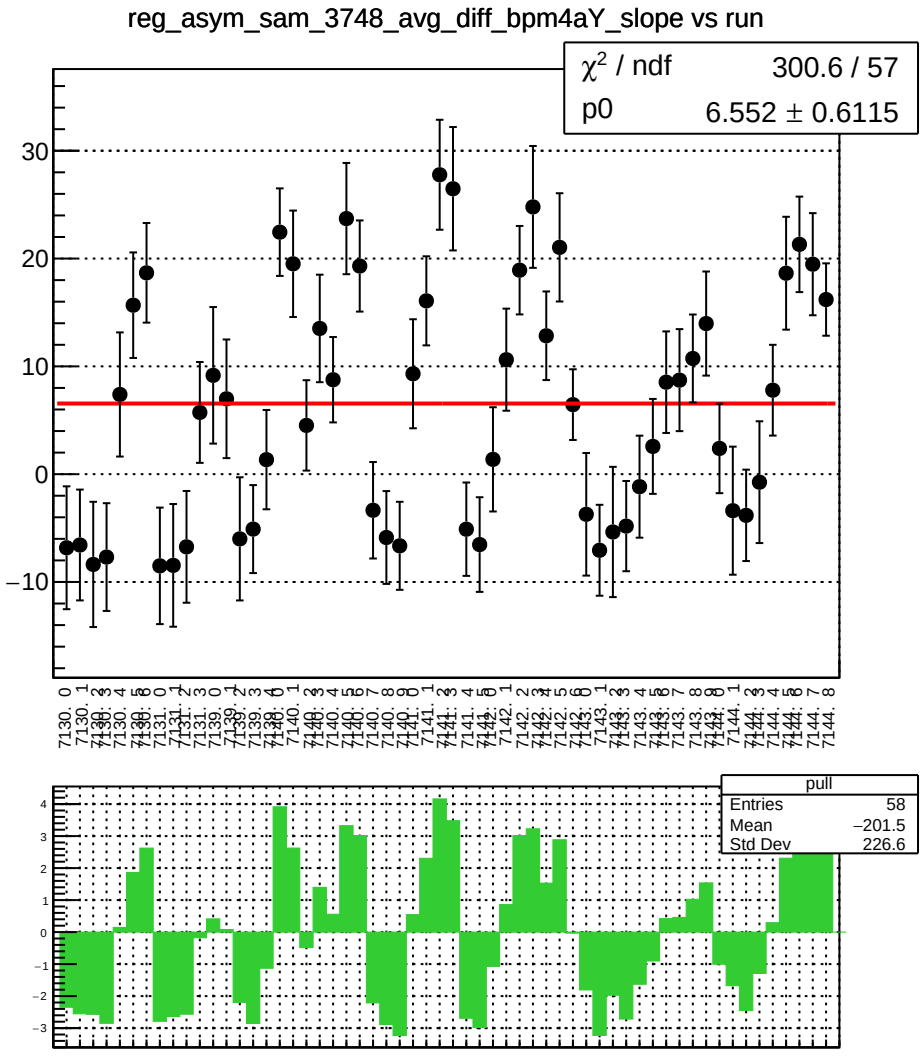

pull1D
Entries 58
Mean 0.08178
Std Dev 1.984

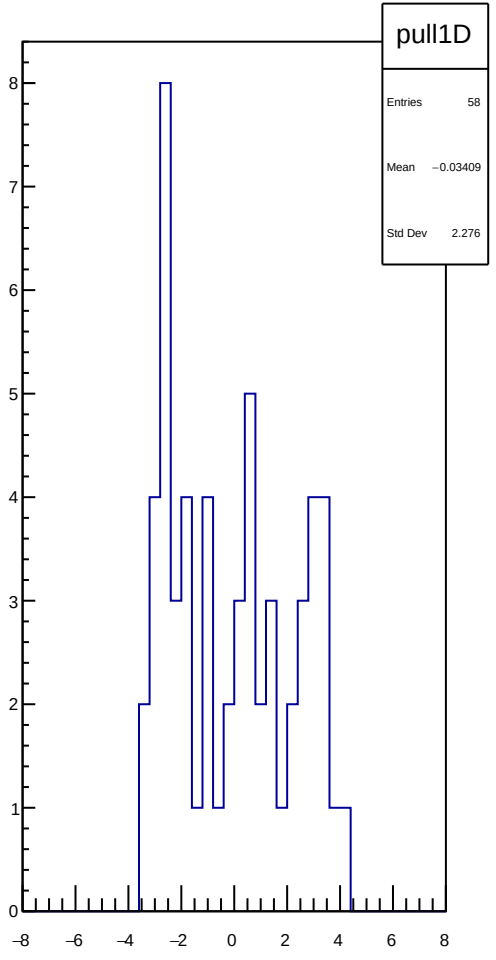

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 26.21 / 57
p0 0.3013 ± 0.02771
pull
Entries 58
Mean −454.3
Std Dev 480.5

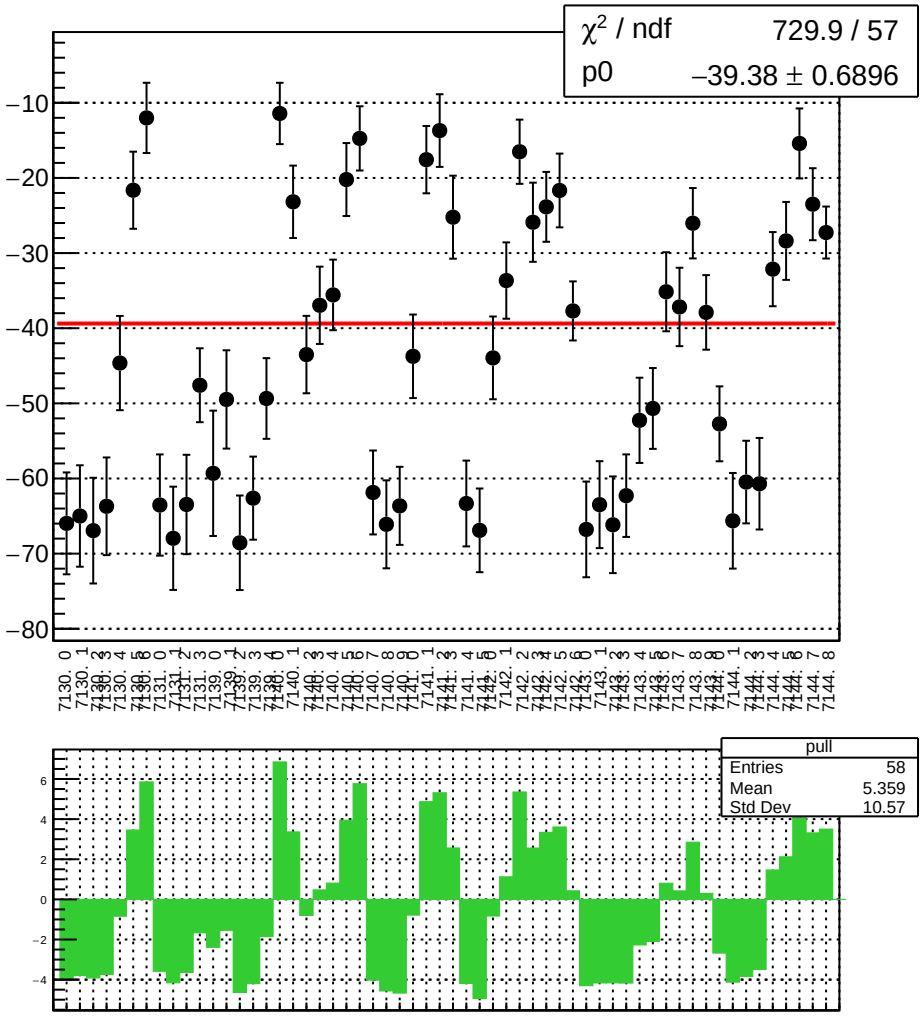

pull1D
Entries 58
Mean −0.01775
Std Dev 0.6721

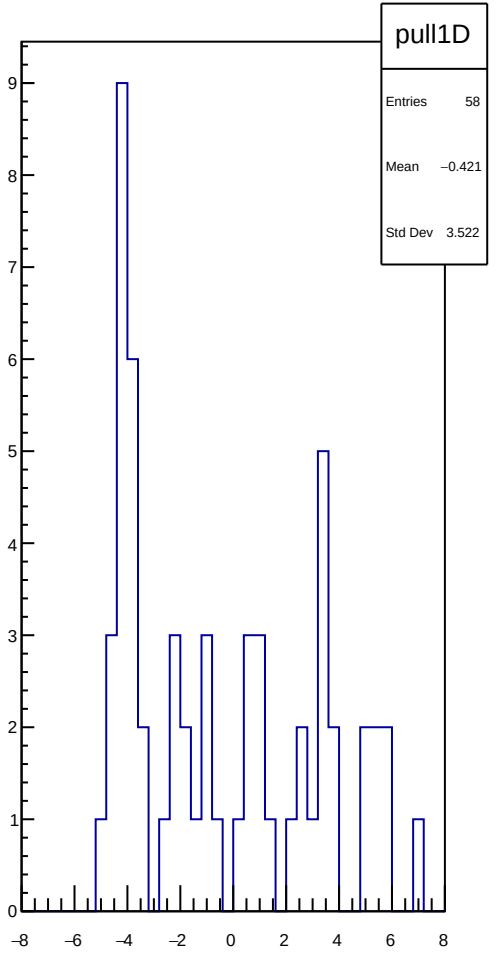

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 880.6 / 57
p0 −33.32 ± 0.6769
pull
Entries 58
Mean 10.83
Std Dev 10.28

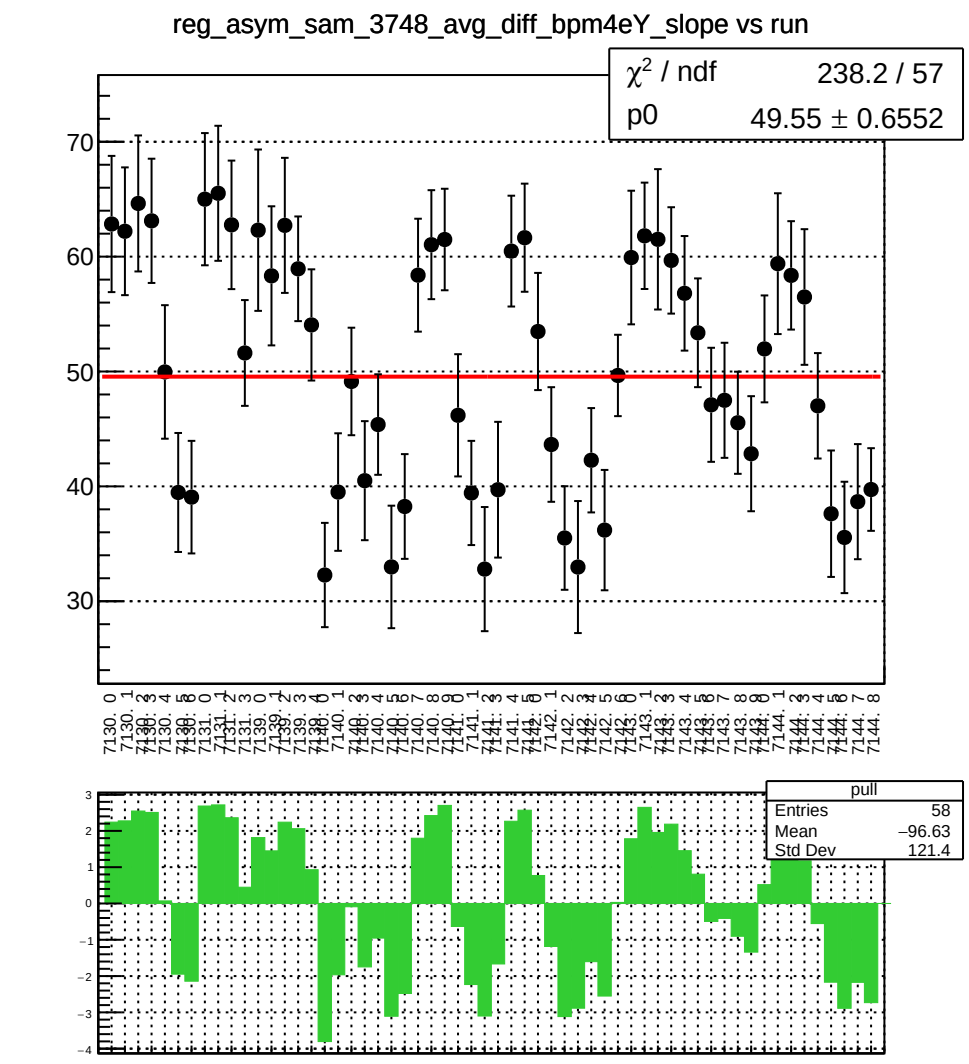

pull1D
Entries 58
Mean 0.4086
Std Dev 3.875

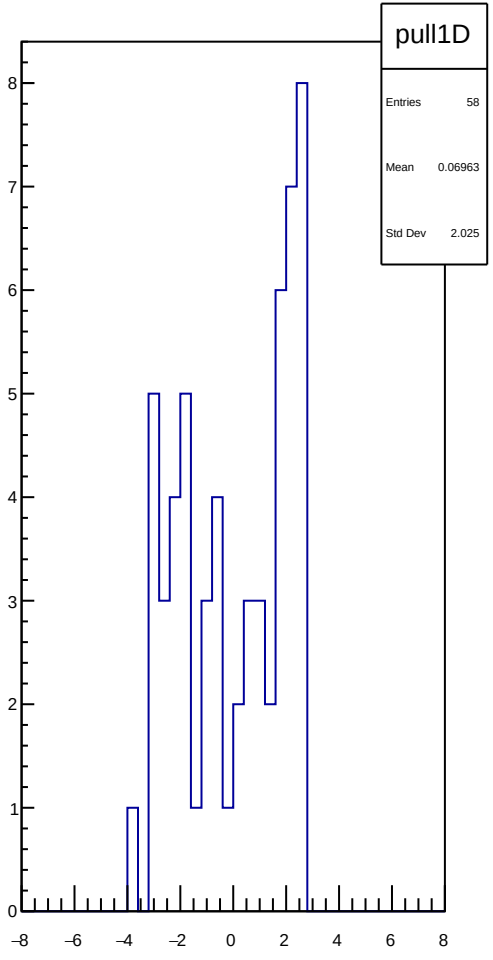

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 300.6 / 57
p0 6.552 ± 0.6115
pull
Entries 58
Mean −201.5
Std Dev 226.6

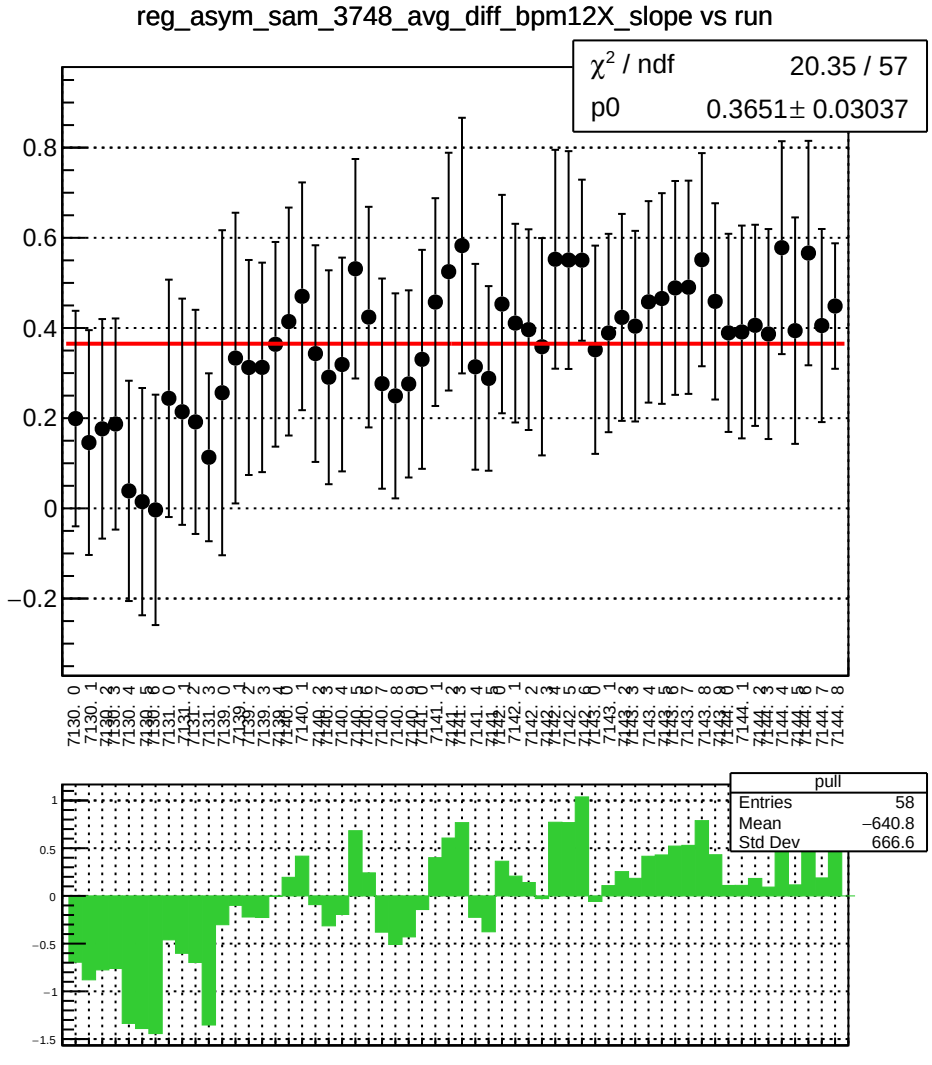

pull1D
Entries 58
Mean −0.03409
Std Dev 2.276

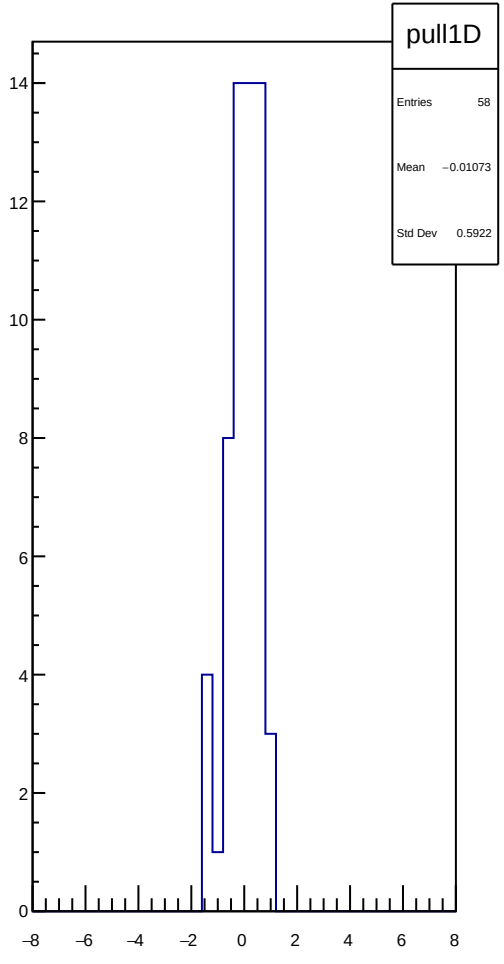

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 729.9 / 57
p0 −39.38 ± 0.6896
pull
Entries 58
Mean 5.359
Std Dev 10.57

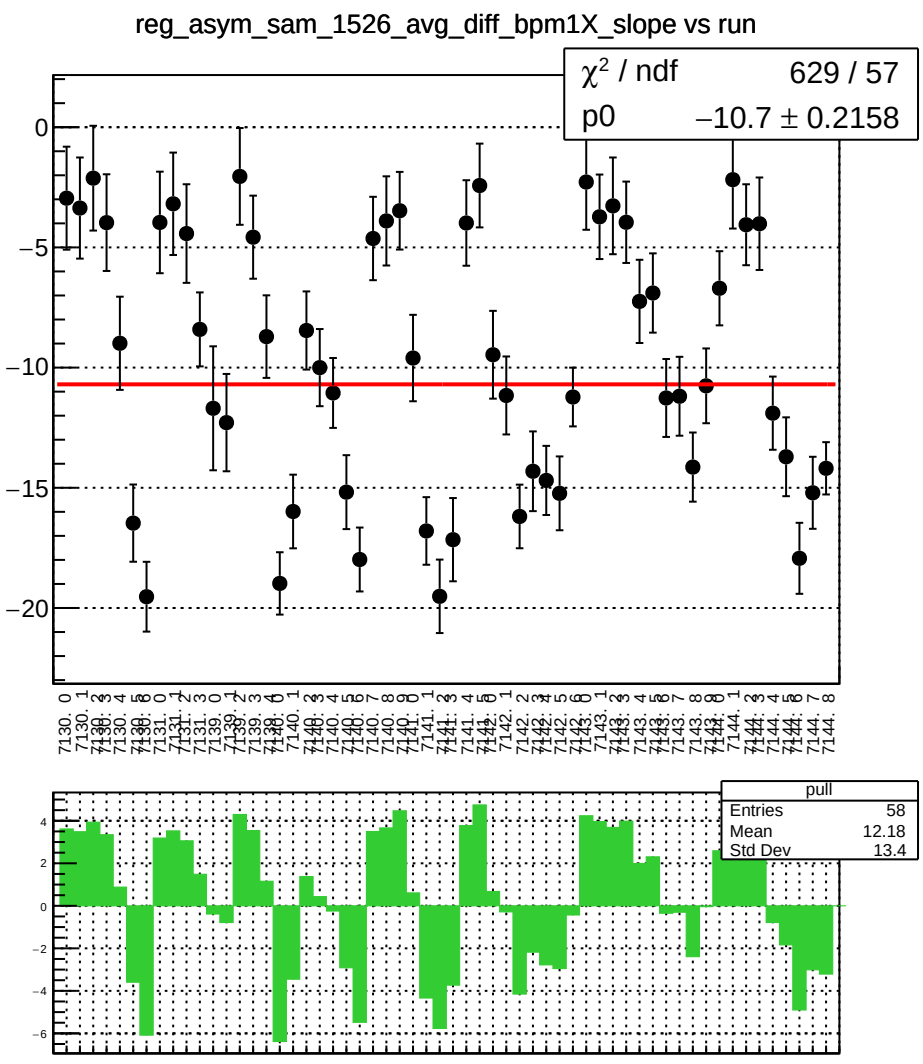

pull1D
Entries 58
Mean −0.421
Std Dev 3.522

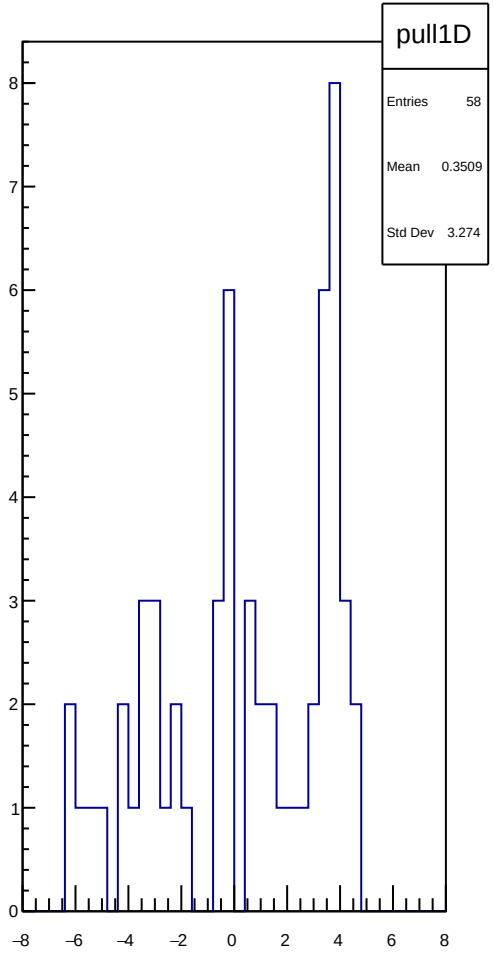

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 238.2 / 57
p0 49.55 ± 0.6552
pull
Entries 58
Mean −96.63
Std Dev 121.4

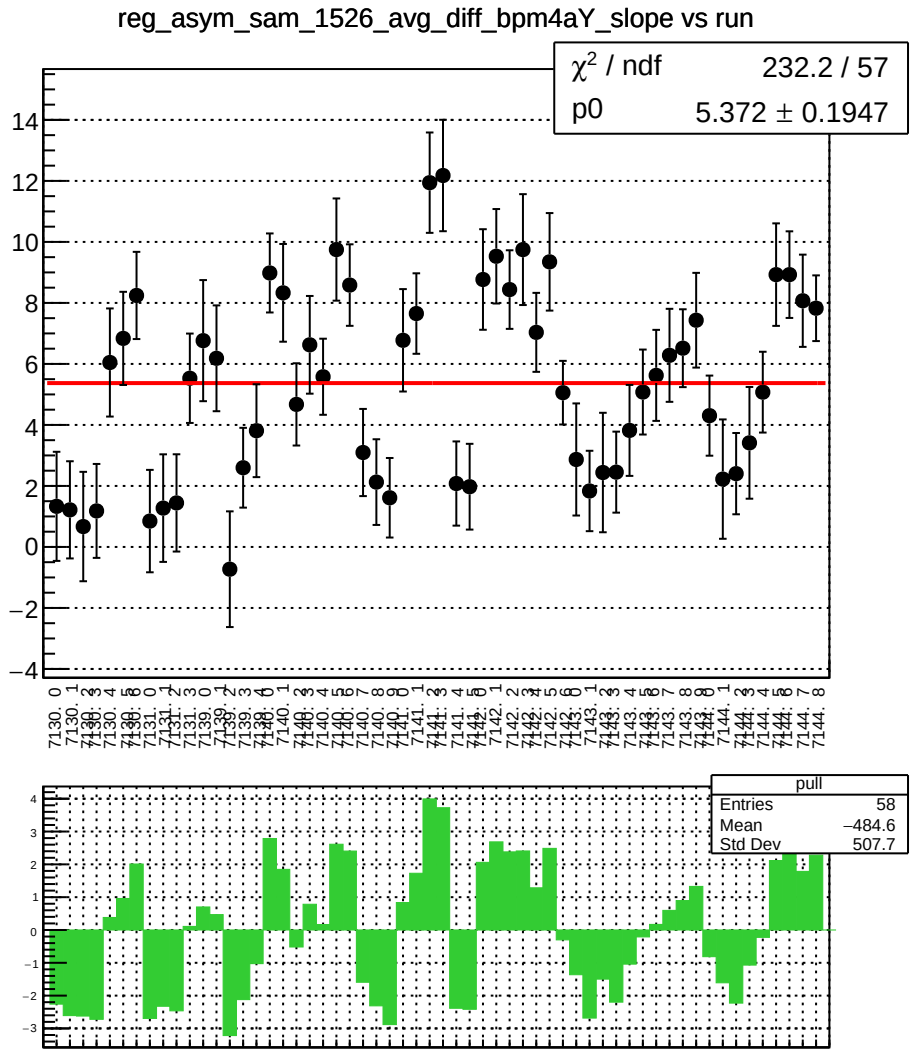

pull1D
Entries 58
Mean 0.06963
Std Dev 2.025

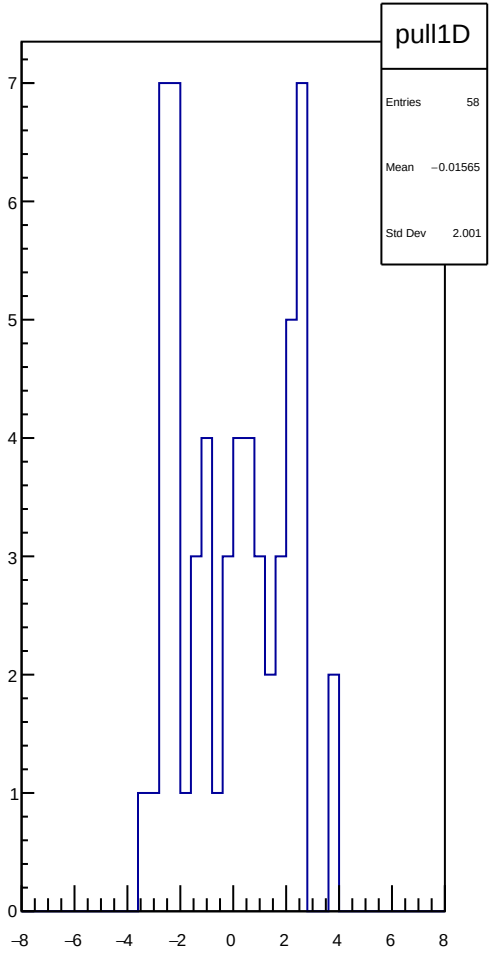

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 20.35 / 57
p0 0.3651± 0.03037
pull
Entries 58
Mean −640.8
Std Dev 666.6

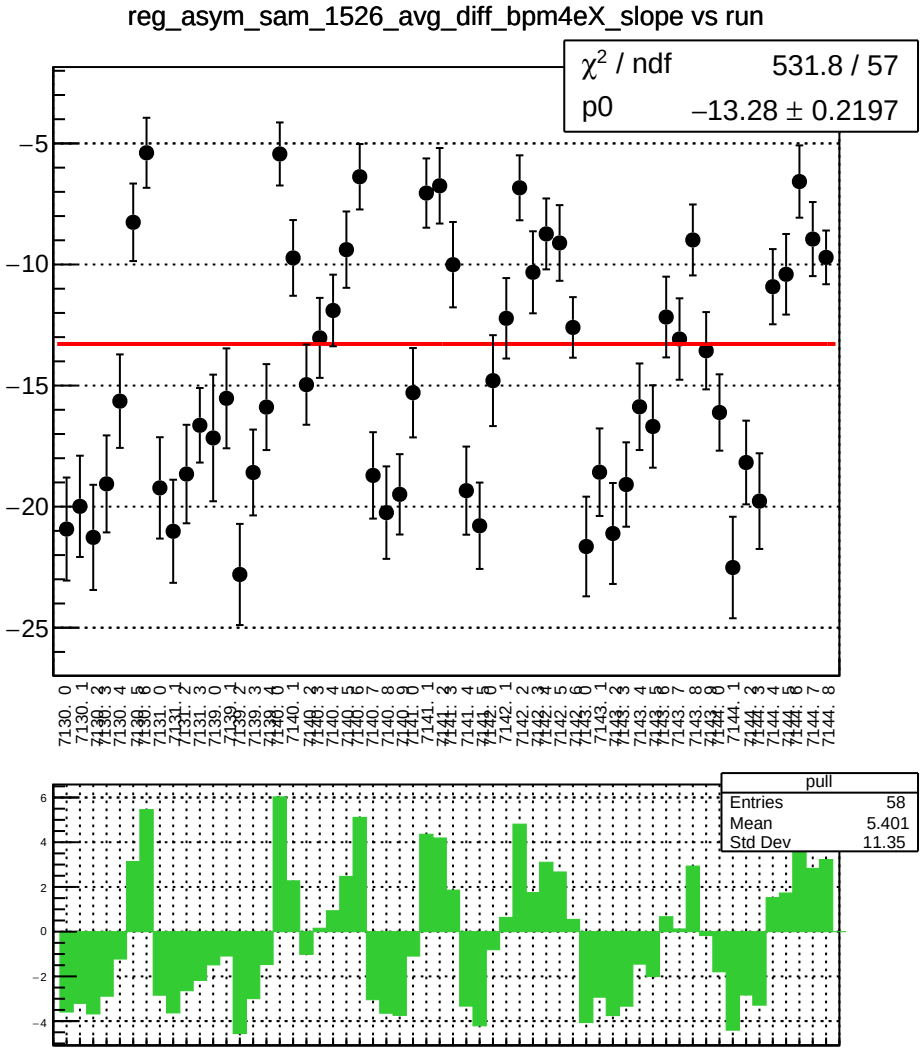

pull1D
Entries 58
Mean −0.01073
Std Dev 0.5922

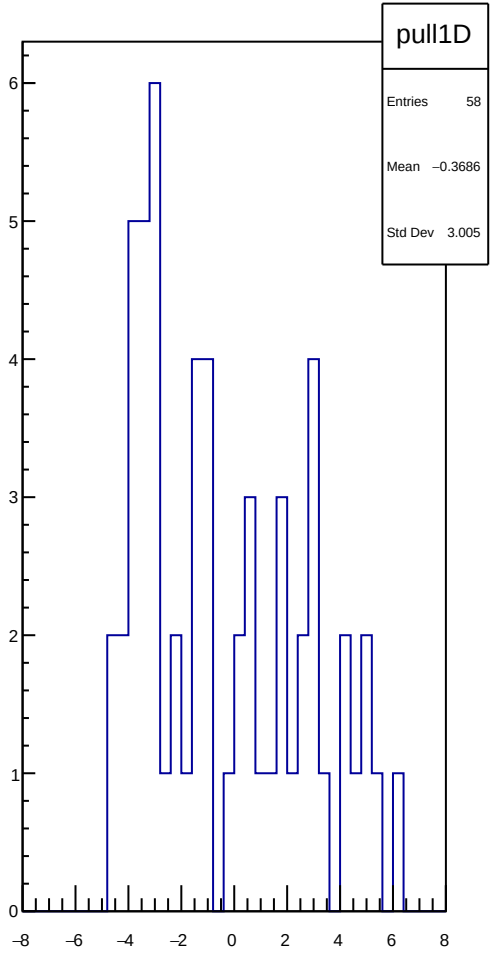

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 629 / 57
p0 −10.7 ± 0.2158
pull
Entries 58
Mean 12.18
Std Dev 13.4

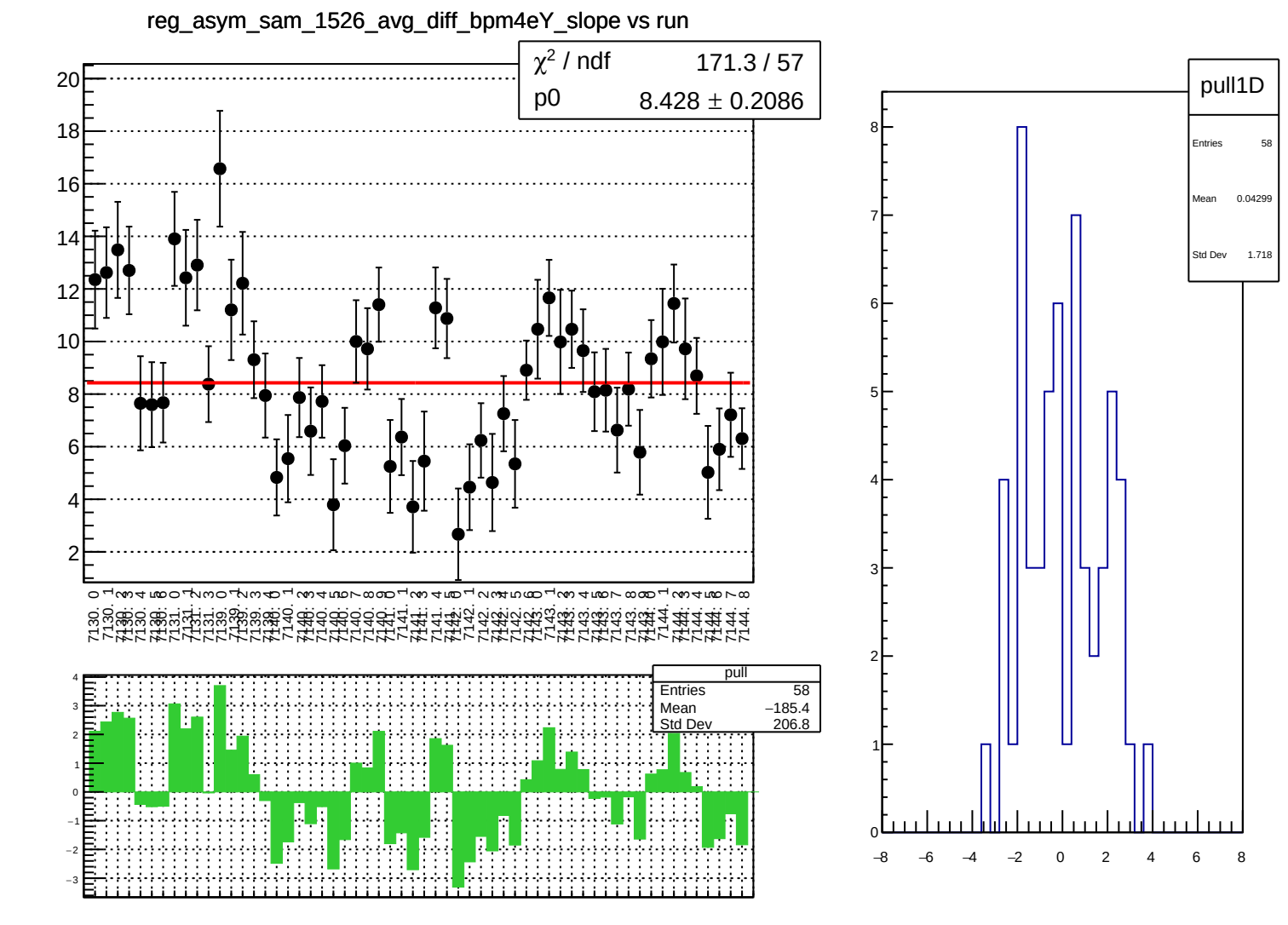

pull1D
Entries 58
Mean 0.3509
Std Dev 3.274

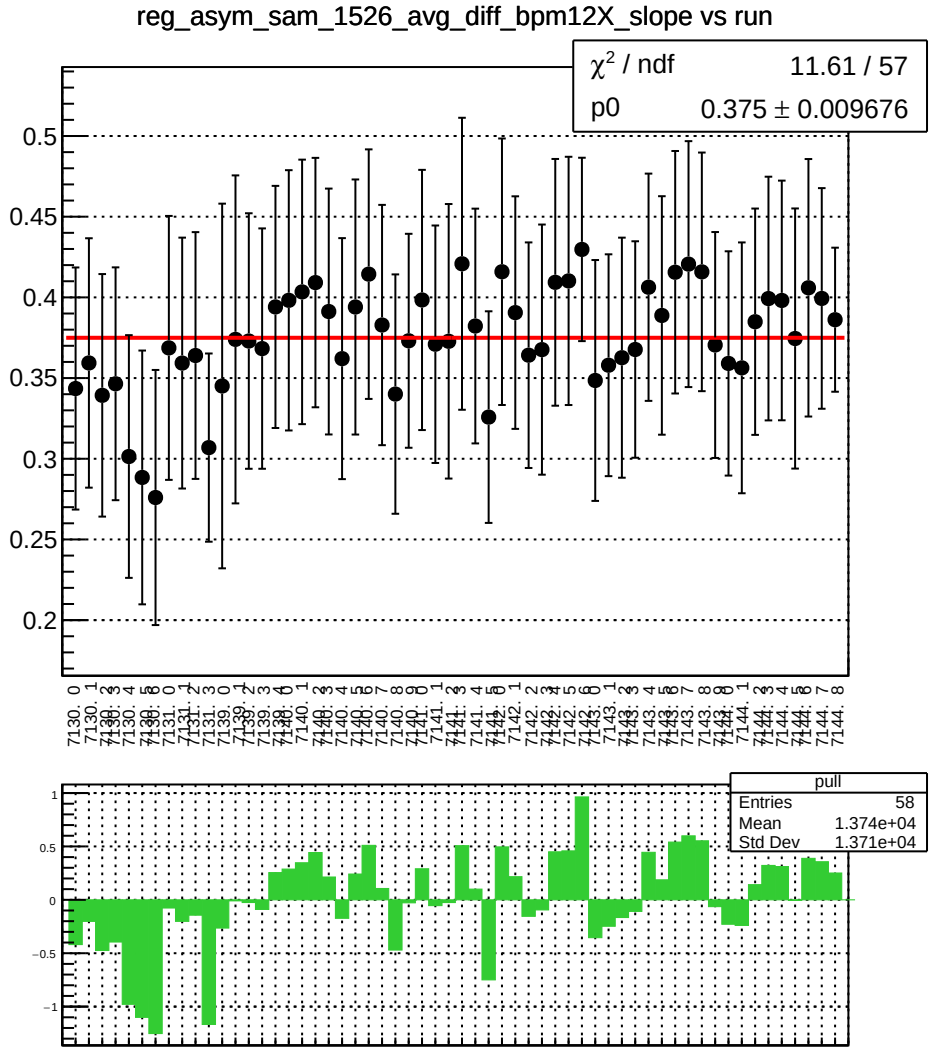

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 232.2 / 57
p0 5.372 ± 0.1947
pull
Entries 58
Mean −484.6
Std Dev 507.7

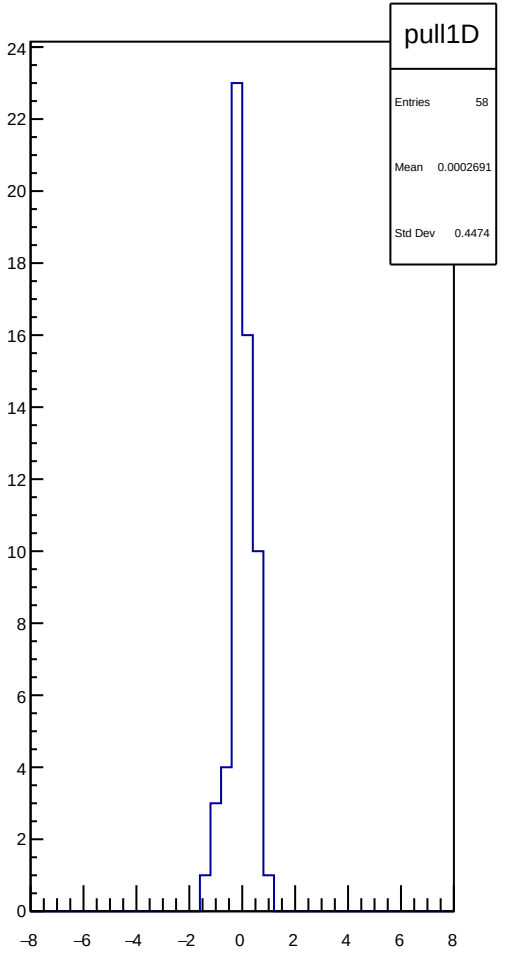

pull1D
Entries 58
Mean −0.01565
Std Dev 2.001

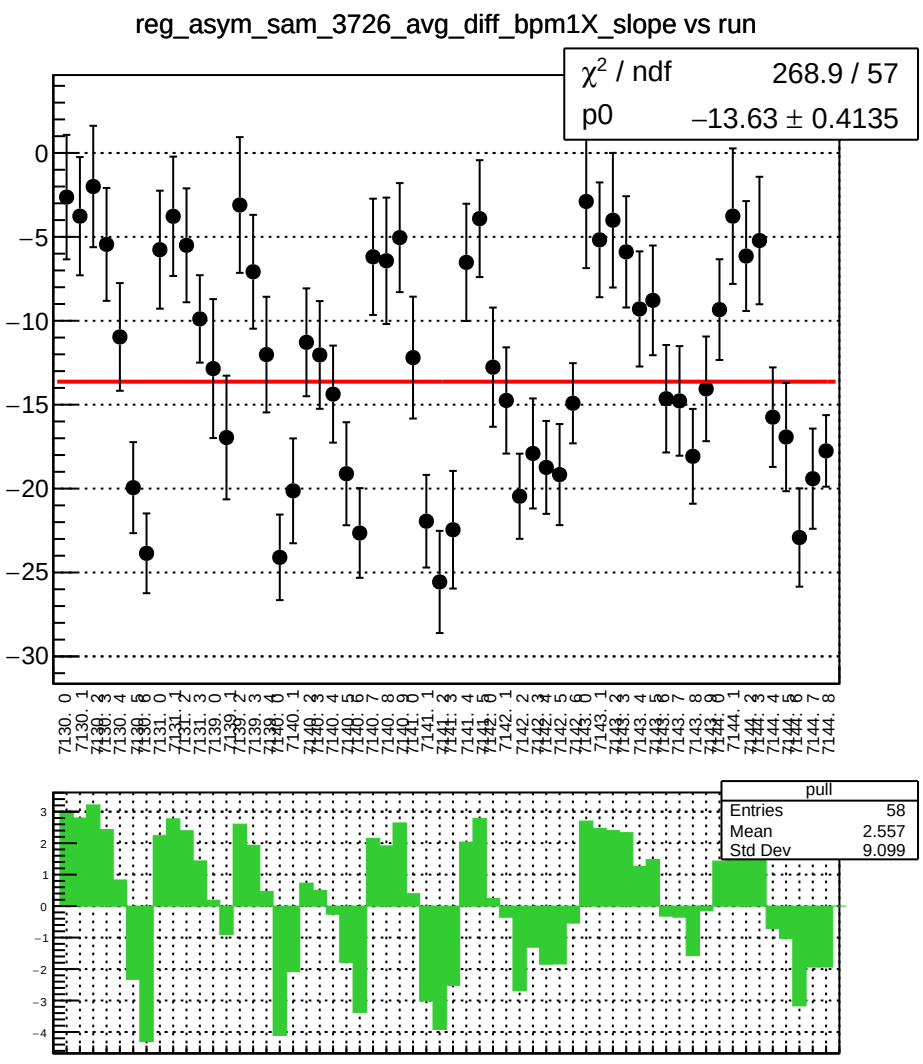

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 531.8 / 57
p0 −13.28 ± 0.2197
pull
Entries 58
Mean 5.401
Std Dev 11.35

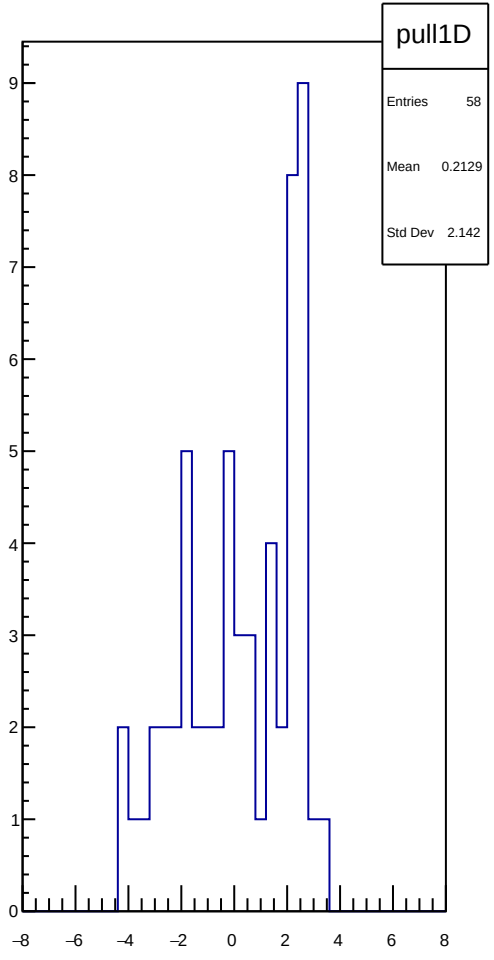

pull1D
Entries 58
Mean −0.3686
Std Dev 3.005

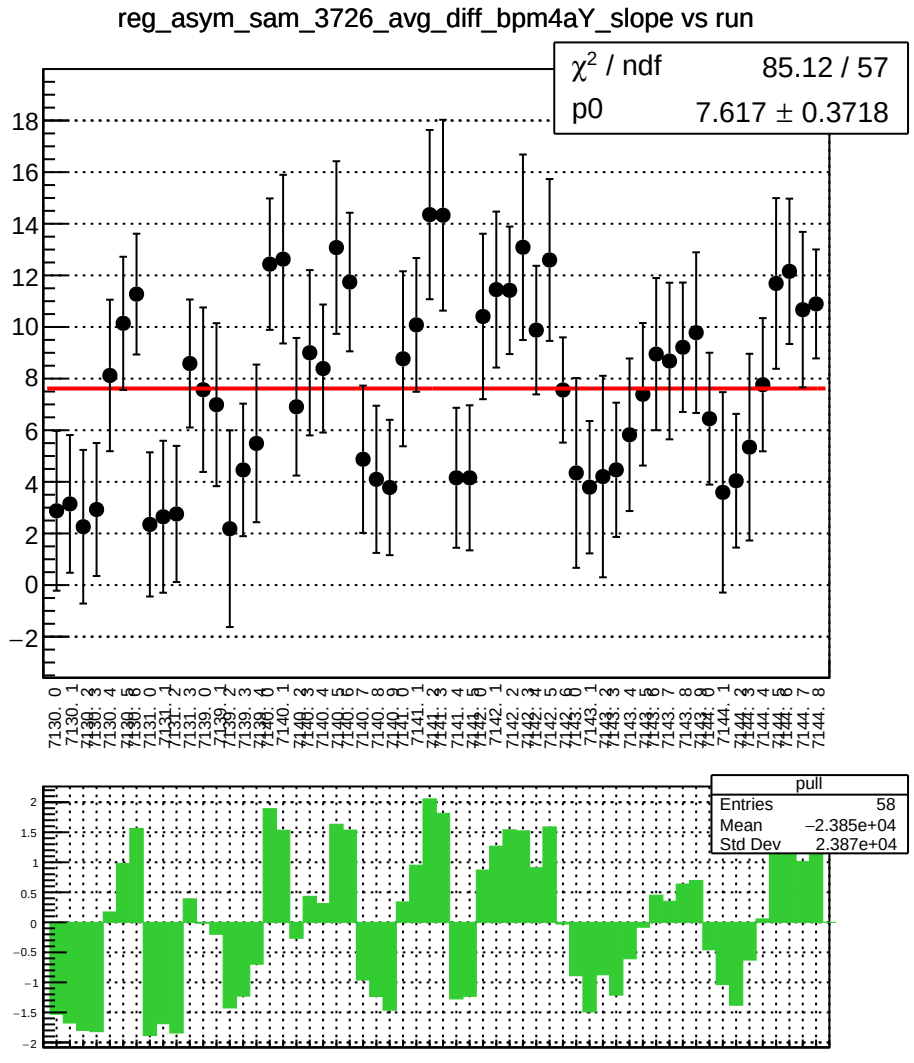

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 171.3 / 57
p0 8.428 ± 0.2086
pull
Entries 58
Mean −185.4
Std Dev 206.8
pull1D
Entries 58
Mean 0.04299
Std Dev 1.718

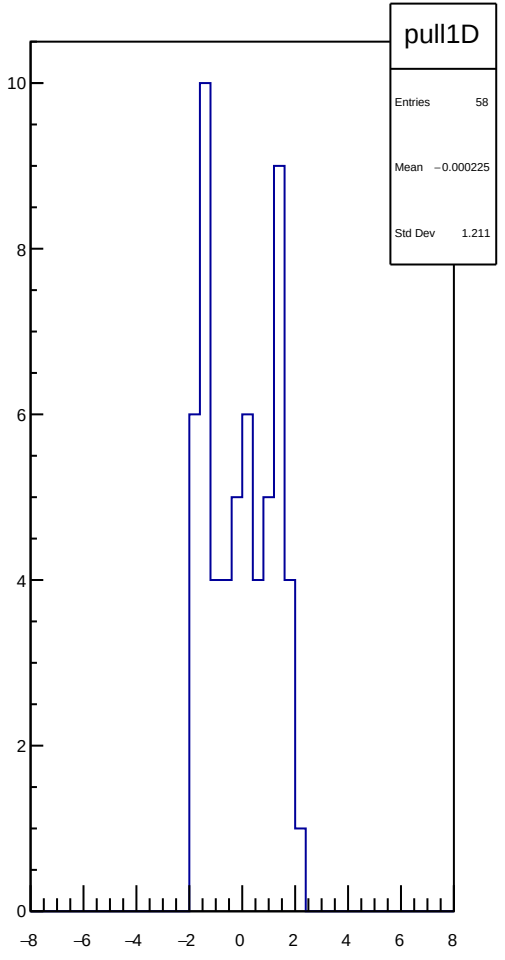

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 11.61 / 57
p0 0.375 ± 0.009676
pull
Entries 58
Mean 1.374e+04
Std Dev 1.371e+04

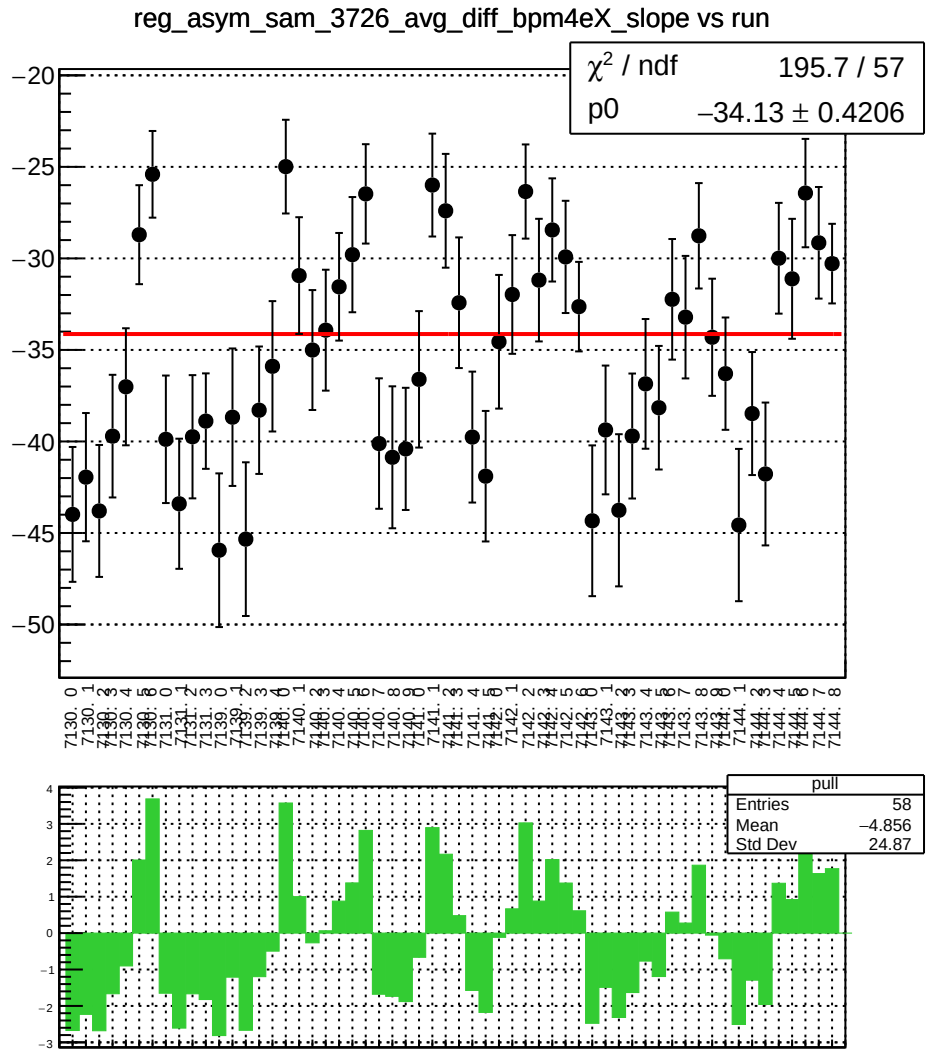

pull1D
Entries 58
Mean 0.0002691
Std Dev 0.4474

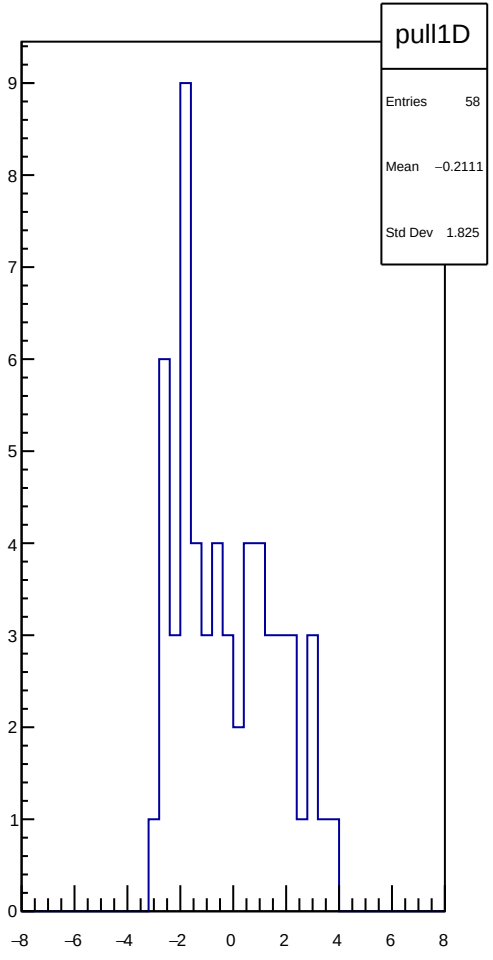

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 268.9 / 57
p0 −13.63 ± 0.4135
pull
Entries 58
Mean 2.557
Std Dev 9.099

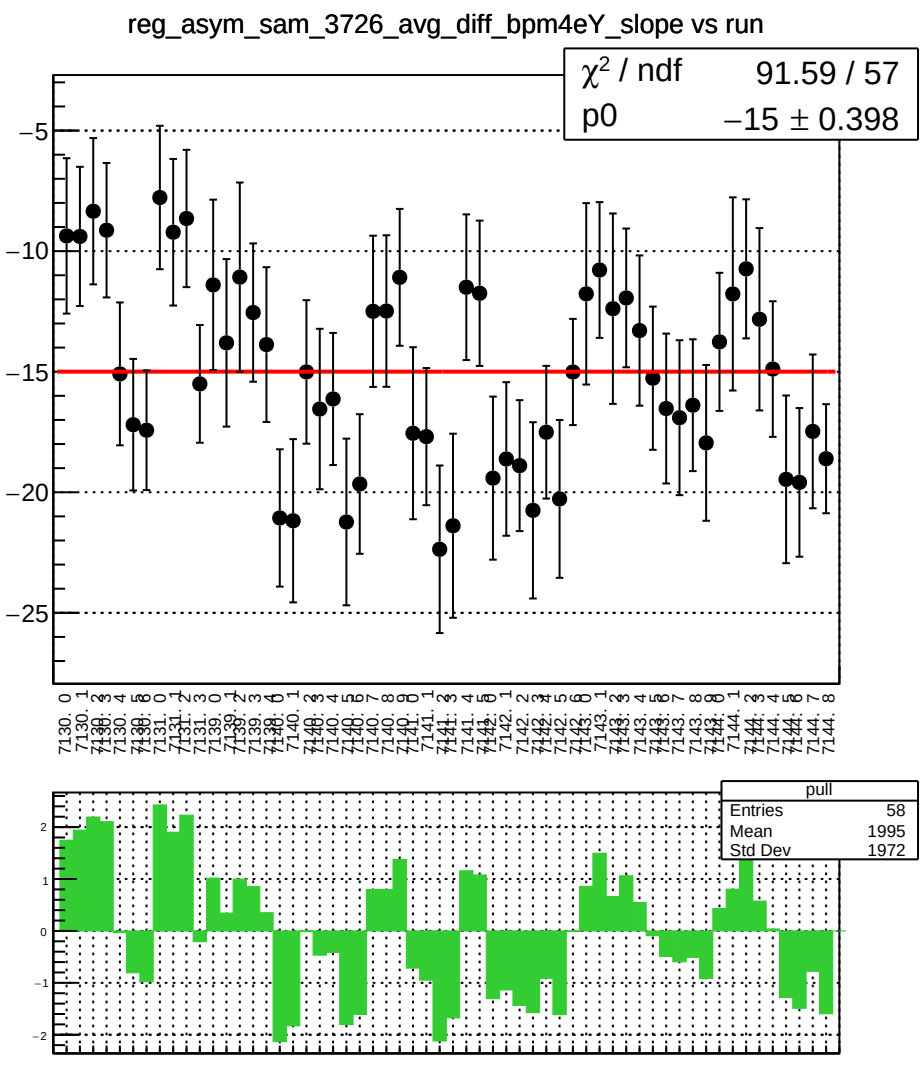

pull1D
Entries 58
Mean 0.2129
Std Dev 2.142

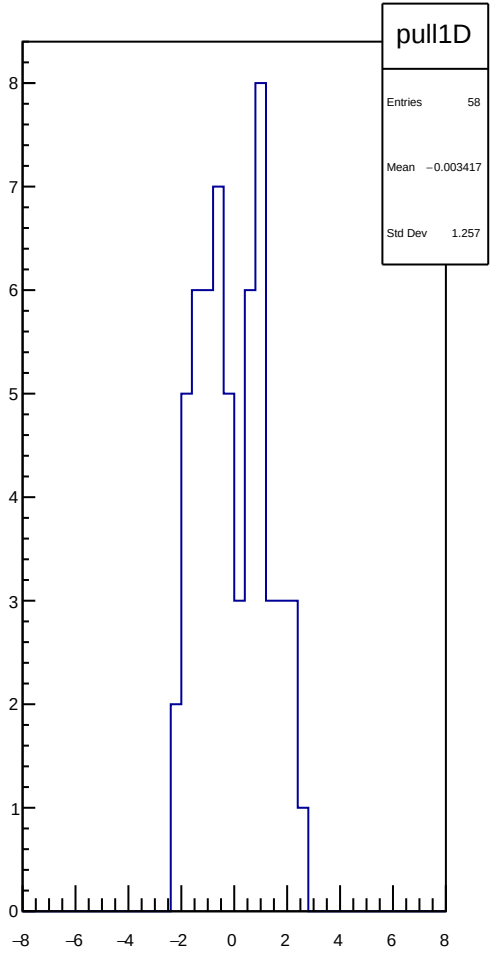

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 85.12 / 57
p0 7.617 ± 0.3718
pull
Entries 58
Mean −2.385e+04
Std Dev 2.387e+04

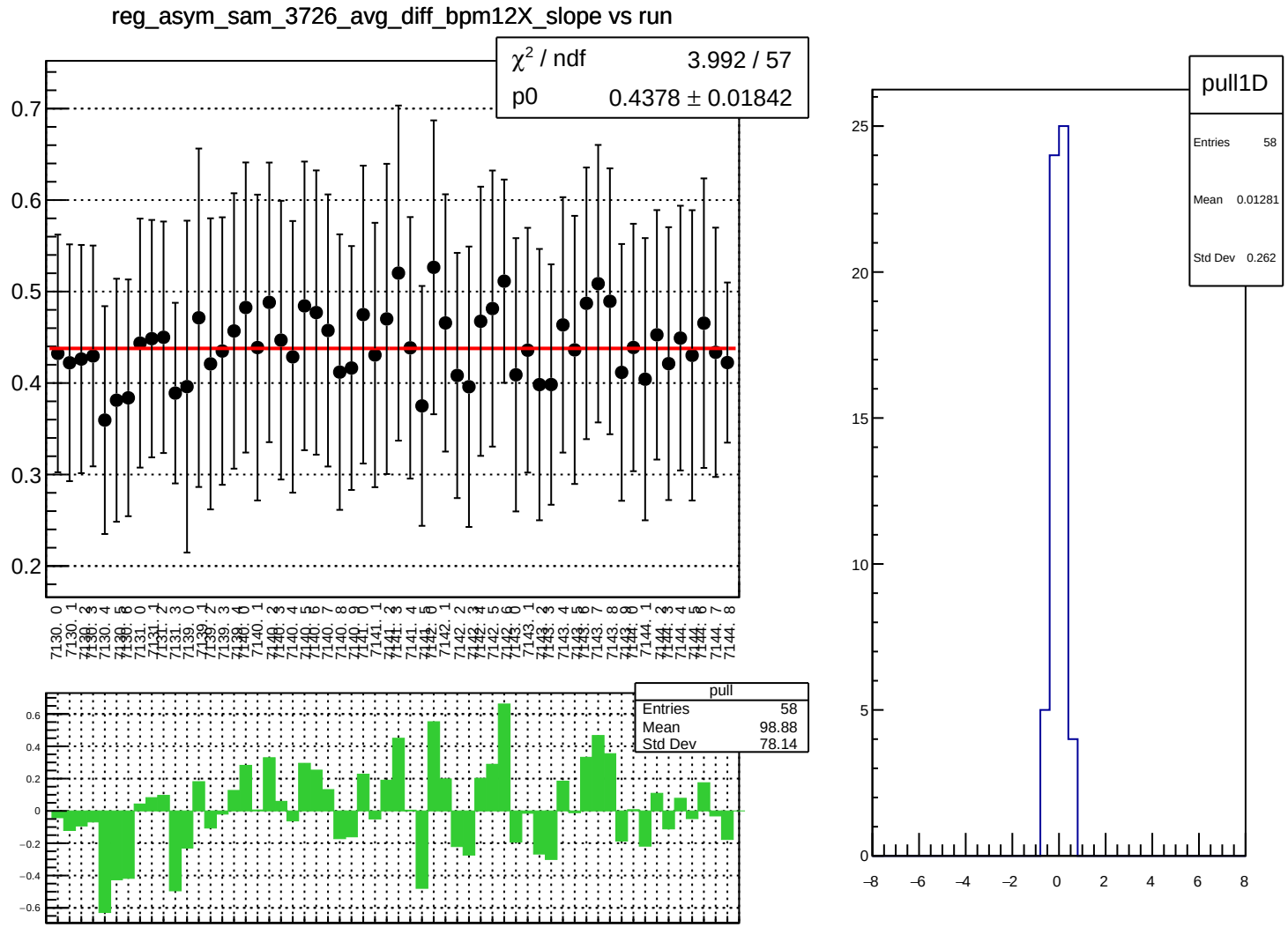

pull1D
Entries 58
Mean −0.000225
Std Dev 1.211

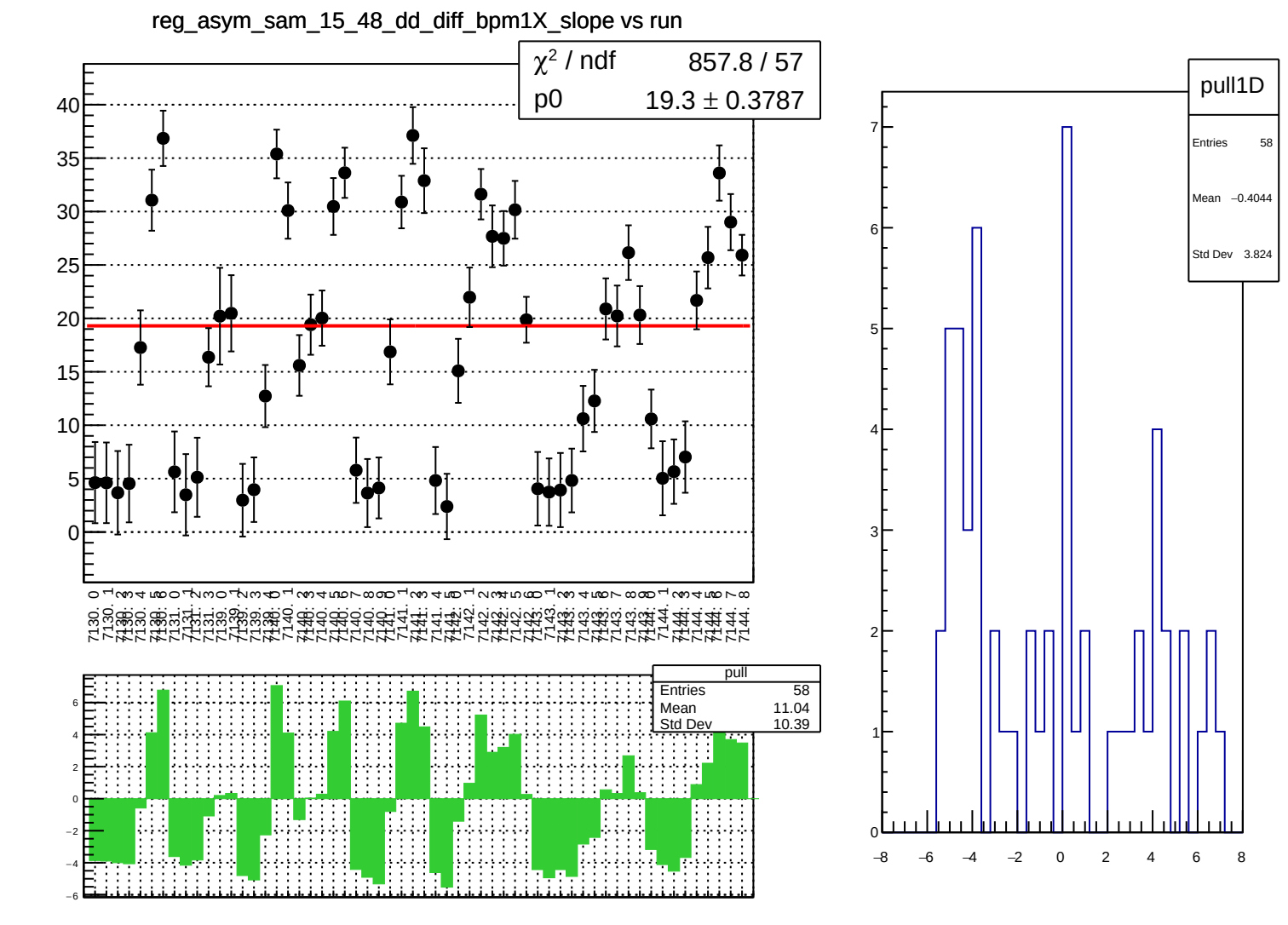

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 195.7 / 57
p0 −34.13 ± 0.4206
pull
Entries 58
Mean −4.856
Std Dev 24.87

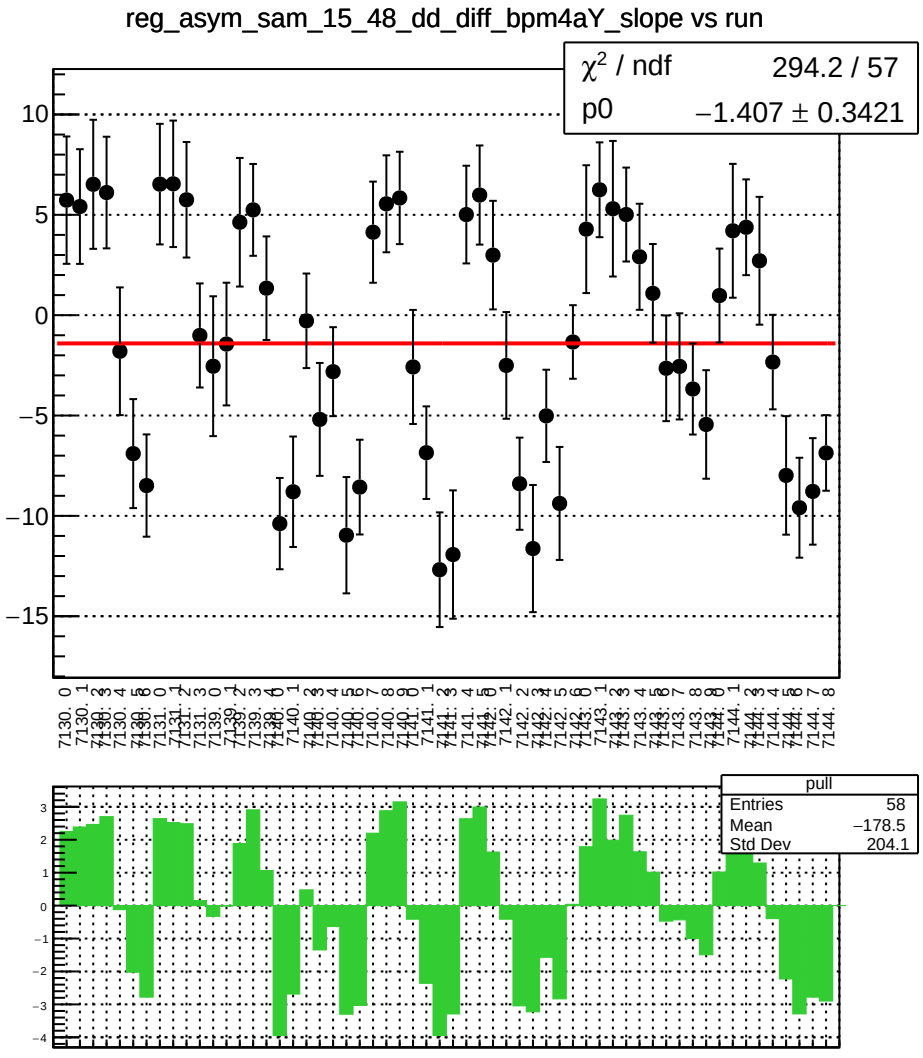

pull1D
Entries 58
Mean −0.2111
Std Dev 1.825

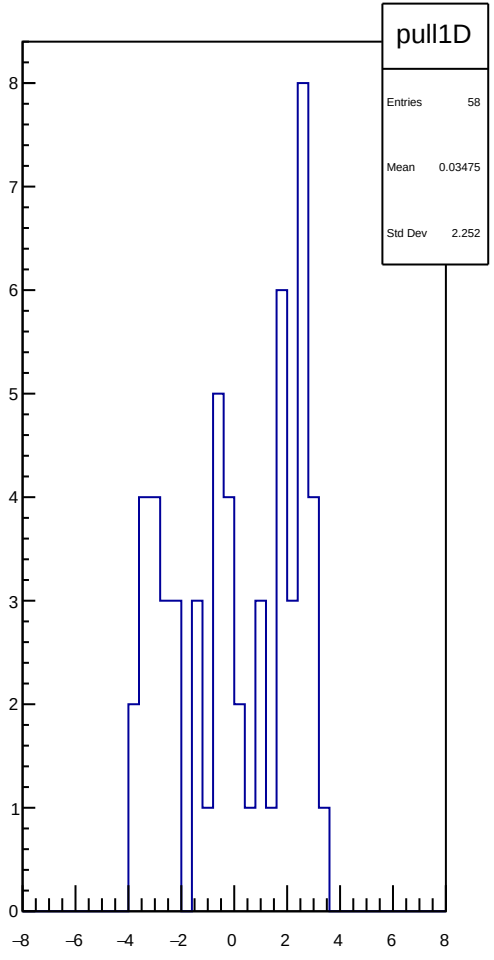

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.59 / 57
p0 −15 ± 0.398
−5
−10
−15
−20
−25
pull
Entries 58
Mean 1995
Std Dev 1972
2
1
0
−1
−2

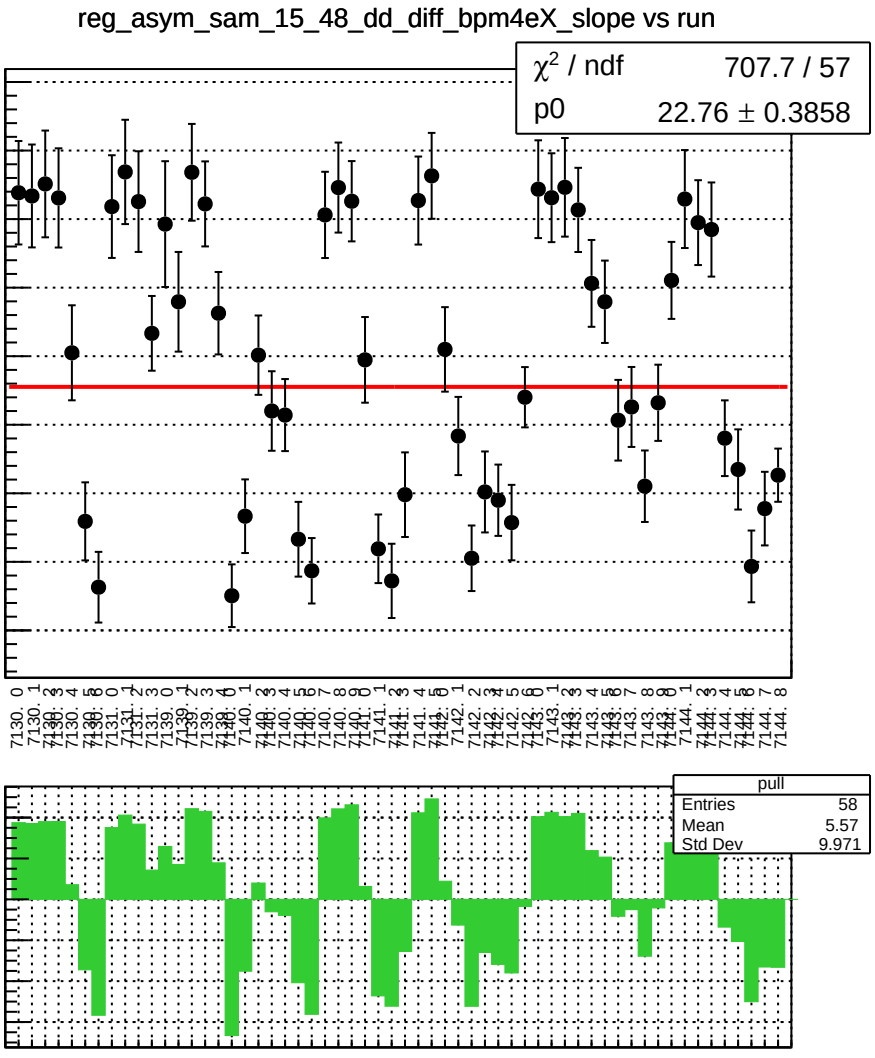

pull1D
Entries 58
Mean −0.003417
Std Dev 1.257
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

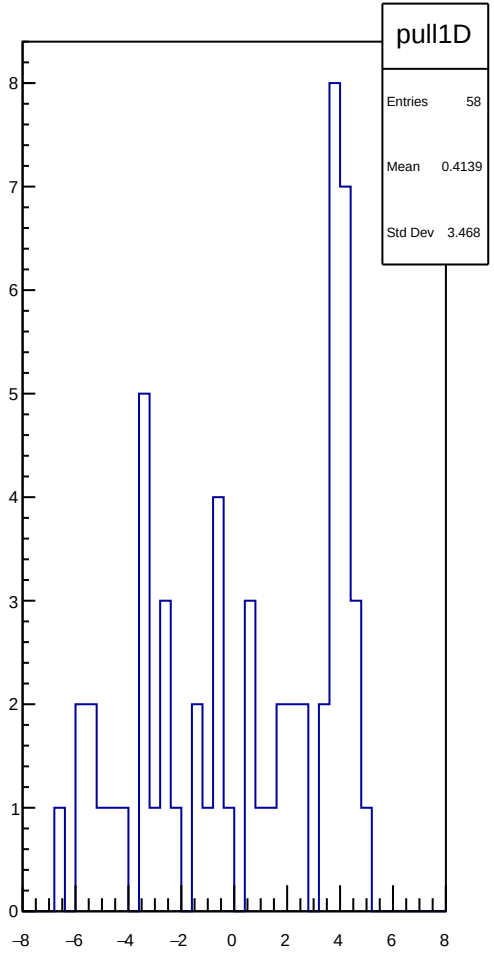

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 3.992 / 57
p0 0.4378 ± 0.01842
pull
Entries 58
Mean 98.88
Std Dev 78.14
pull1D
Entries 58
Mean 0.01281
Std Dev 0.262

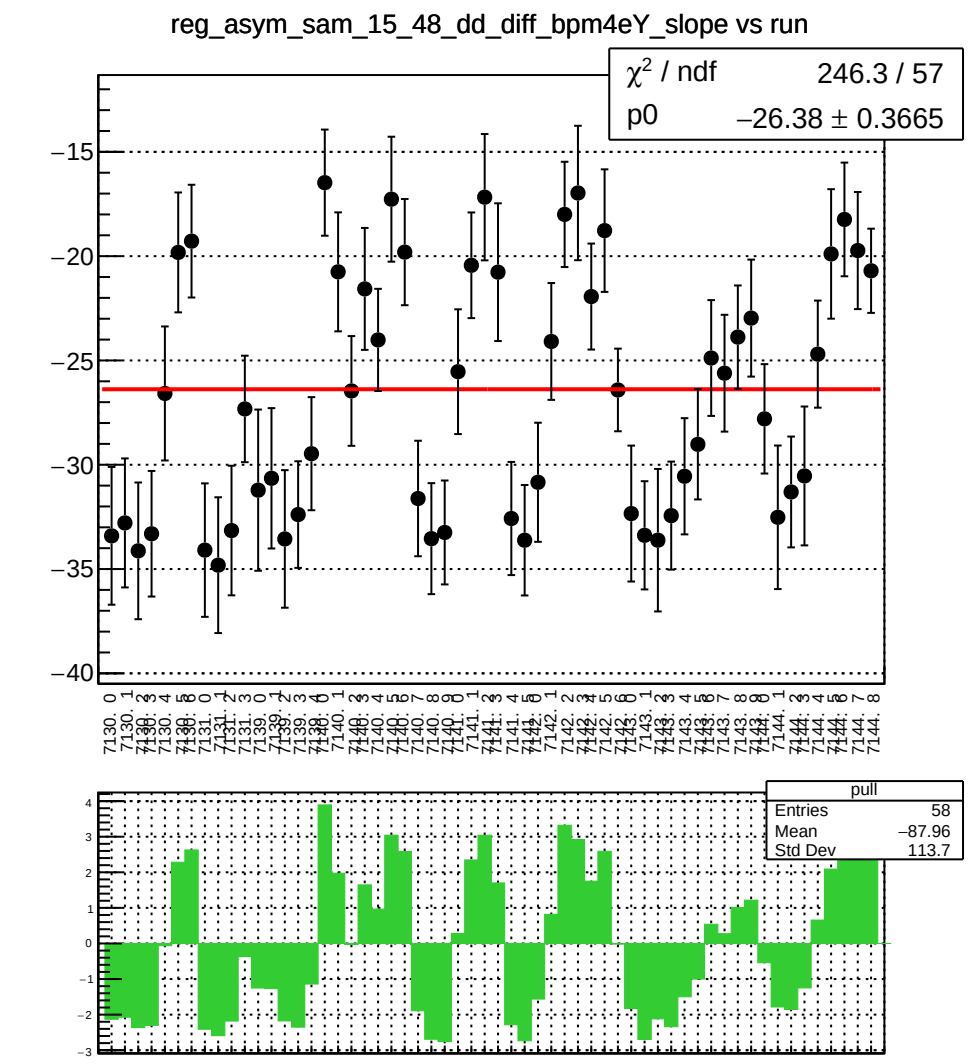

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 857.8 / 57
p0 19.3 ± 0.3787
pull
Entries 58
Mean 11.04
Std Dev 10.39
pull1D
Entries 58
Mean −0.4044
Std Dev 3.824

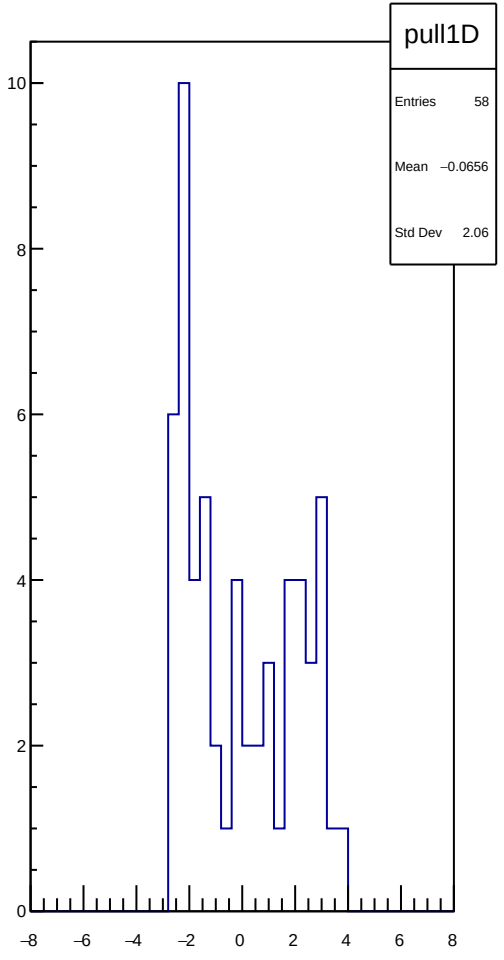

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 294.2 / 57
p0 −1.407 ± 0.3421
pull
Entries 58
Mean −178.5
Std Dev 204.1

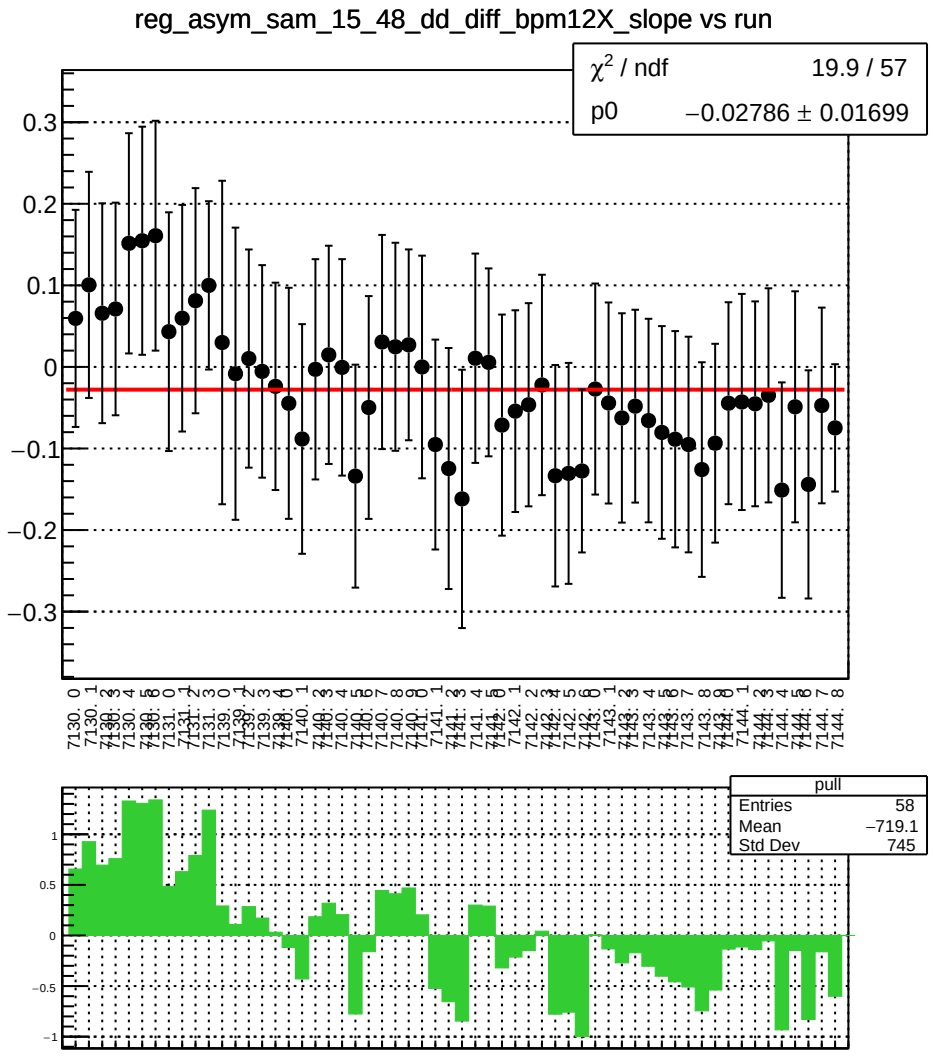

pull1D
Entries 58
Mean 0.03475
Std Dev 2.252

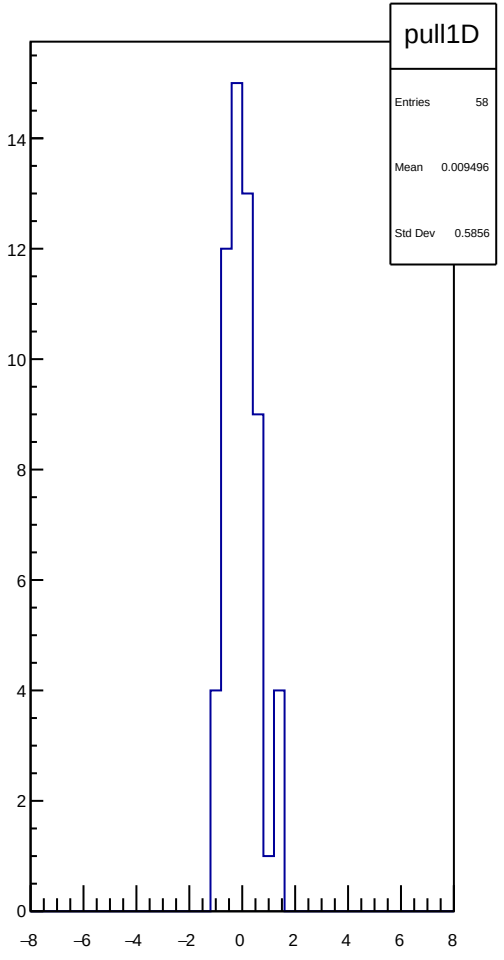

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 707.7 / 57
p0 22.76 ± 0.3858
pull
Entries 58
Mean 5.57
Std Dev 9.971

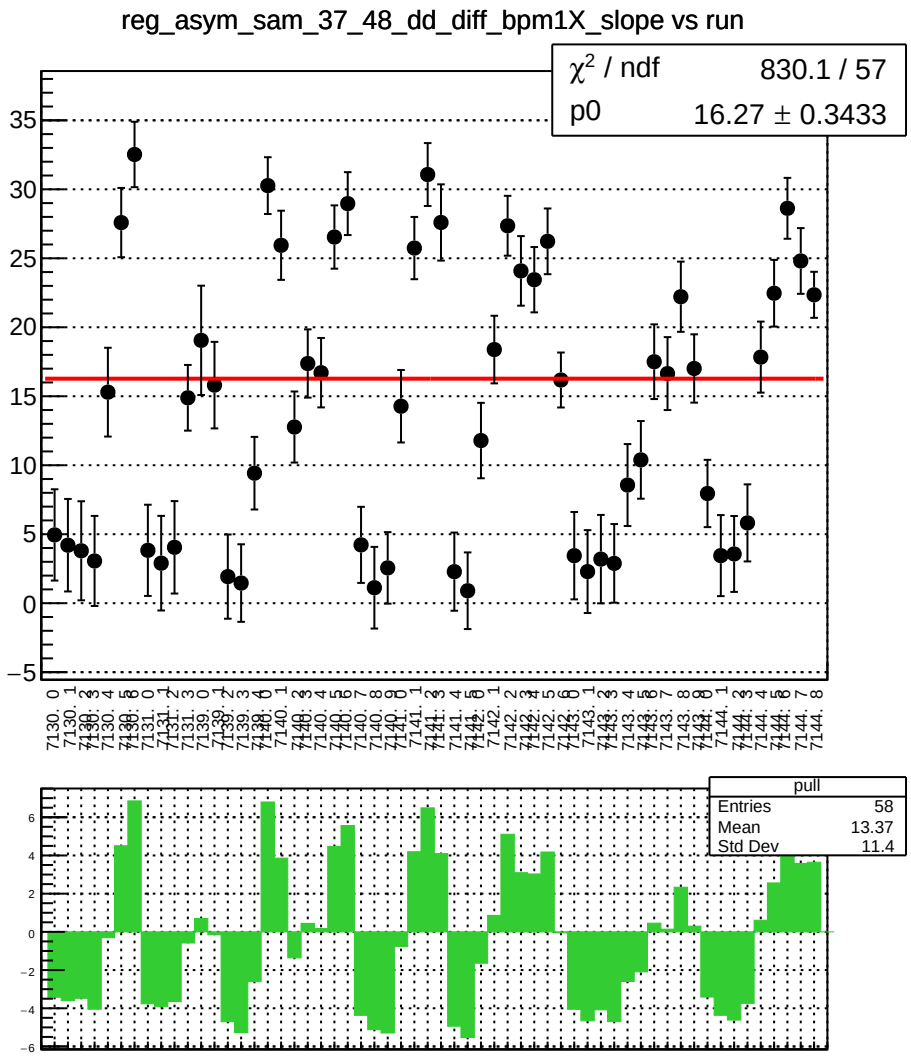

pull1D
Entries 58
Mean 0.4139
Std Dev 3.468

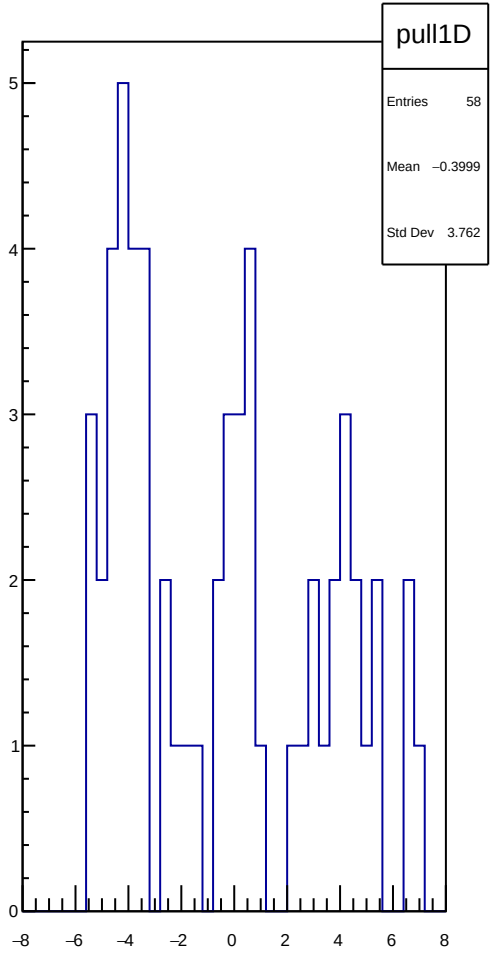

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 246.3 / 57
p0 −26.38 ± 0.3665
pull
Entries 58
Mean −87.96
Std Dev 113.7

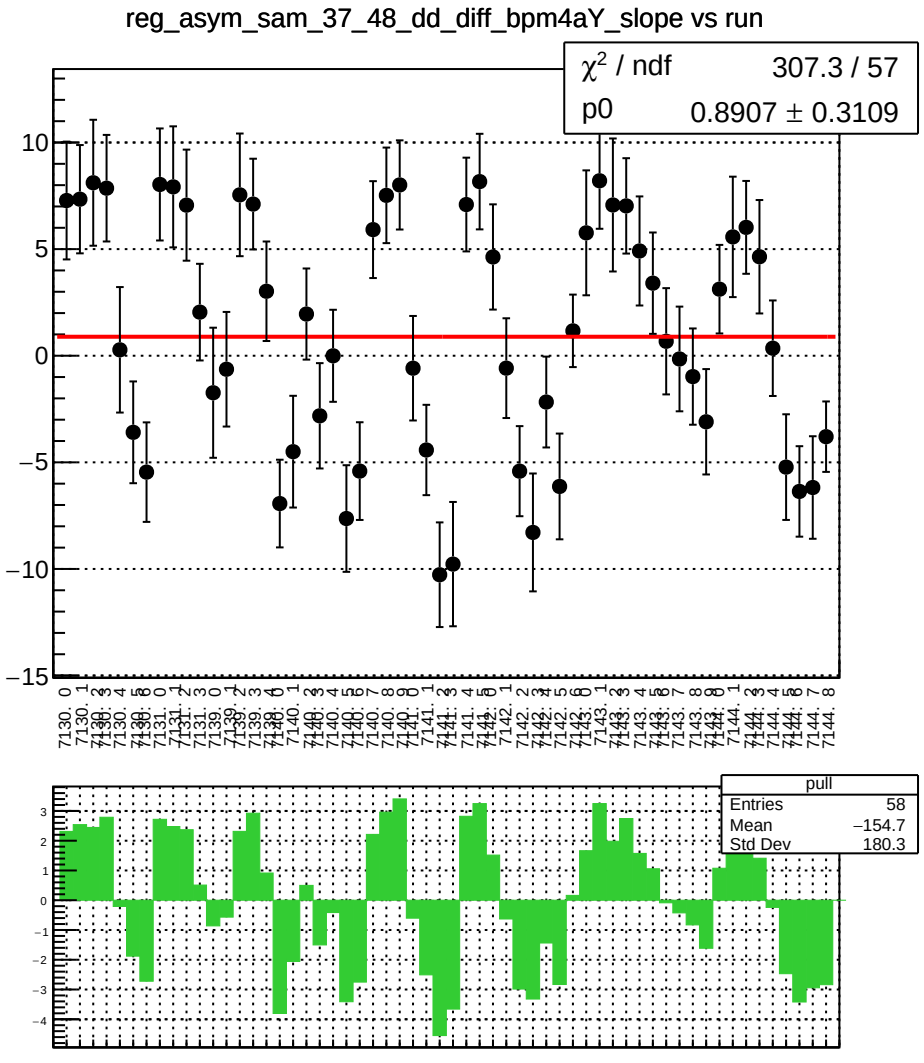

pull1D
Entries 58
Mean −0.0656
Std Dev 2.06

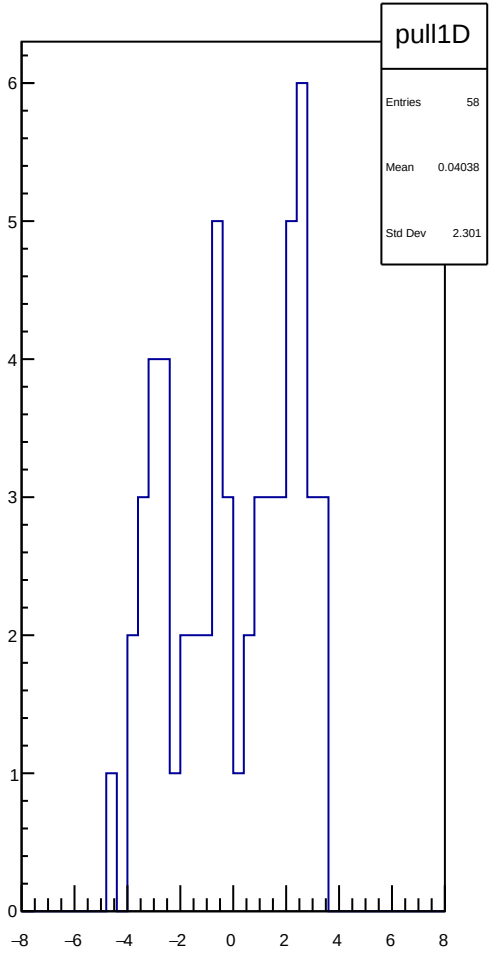

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 19.9 / 57
p0 −0.02786 ± 0.01699
pull
Entries 58
Mean −719.1
Std Dev 745

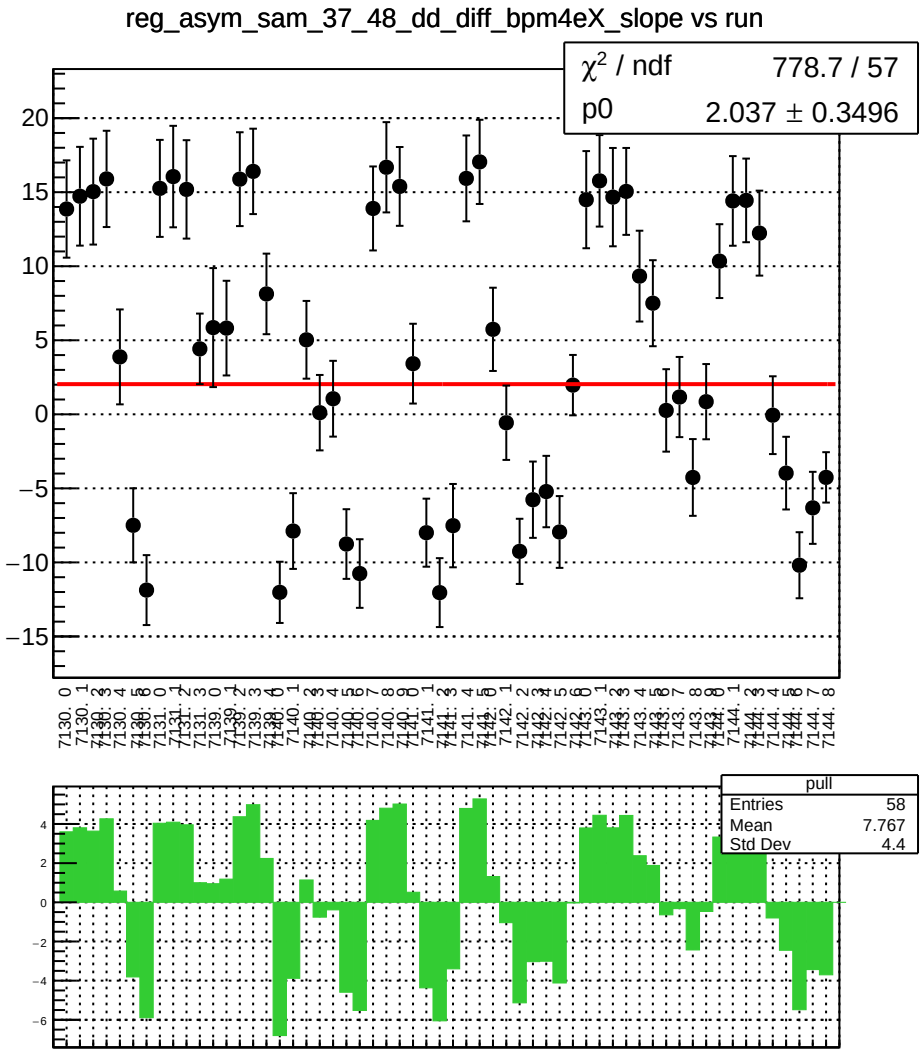

pull1D
Entries 58
Mean 0.009496
Std Dev 0.5856

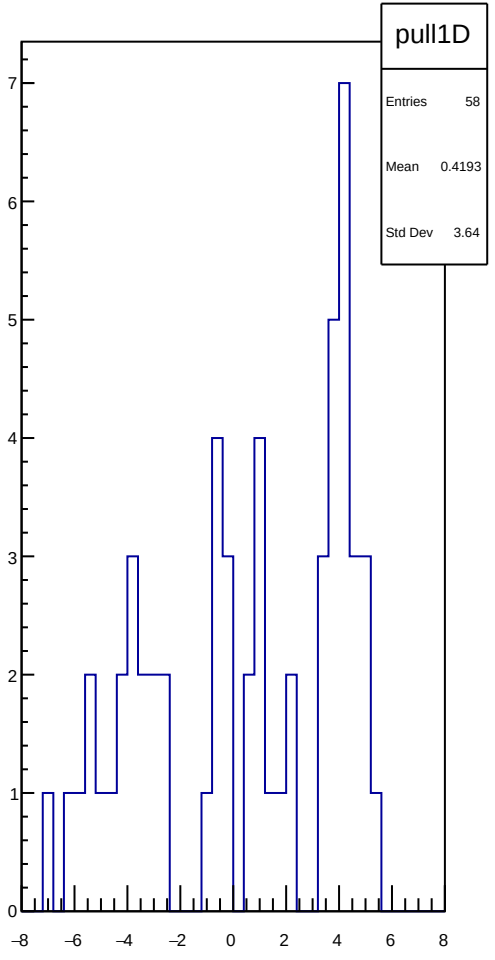

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 830.1 / 57
p0 16.27 ± 0.3433
pull
Entries 58
Mean 13.37
Std Dev 11.4

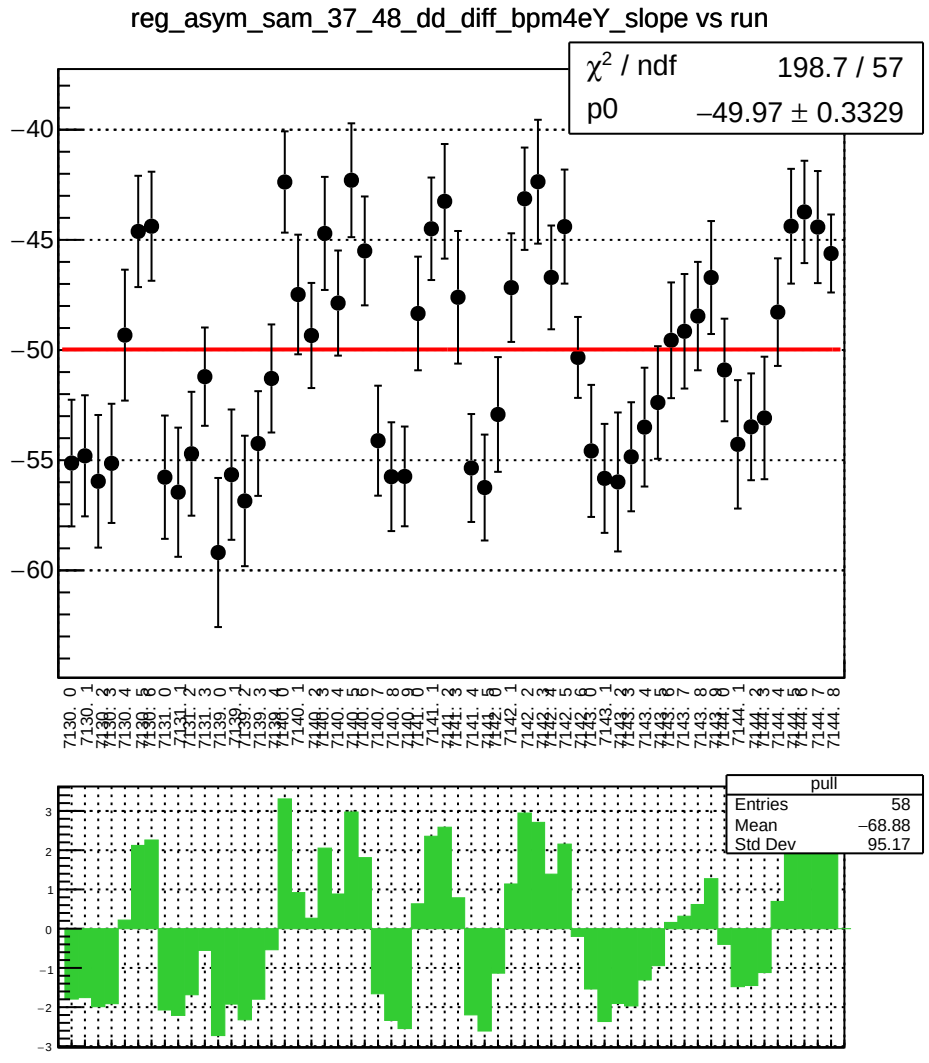

pull1D
Entries 58
Mean −0.3999
Std Dev 3.762

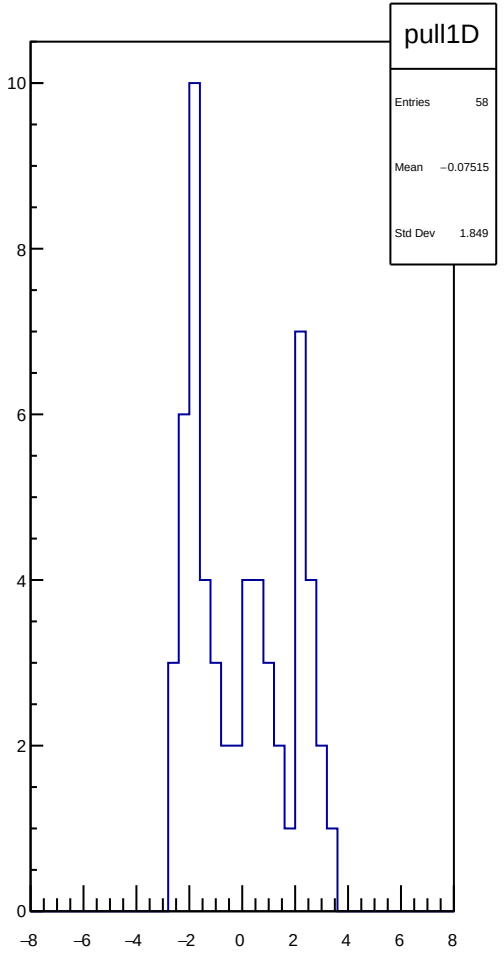

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 307.3 / 57
p0 0.8907 ± 0.3109
pull
Entries 58
Mean −154.7
Std Dev 180.3

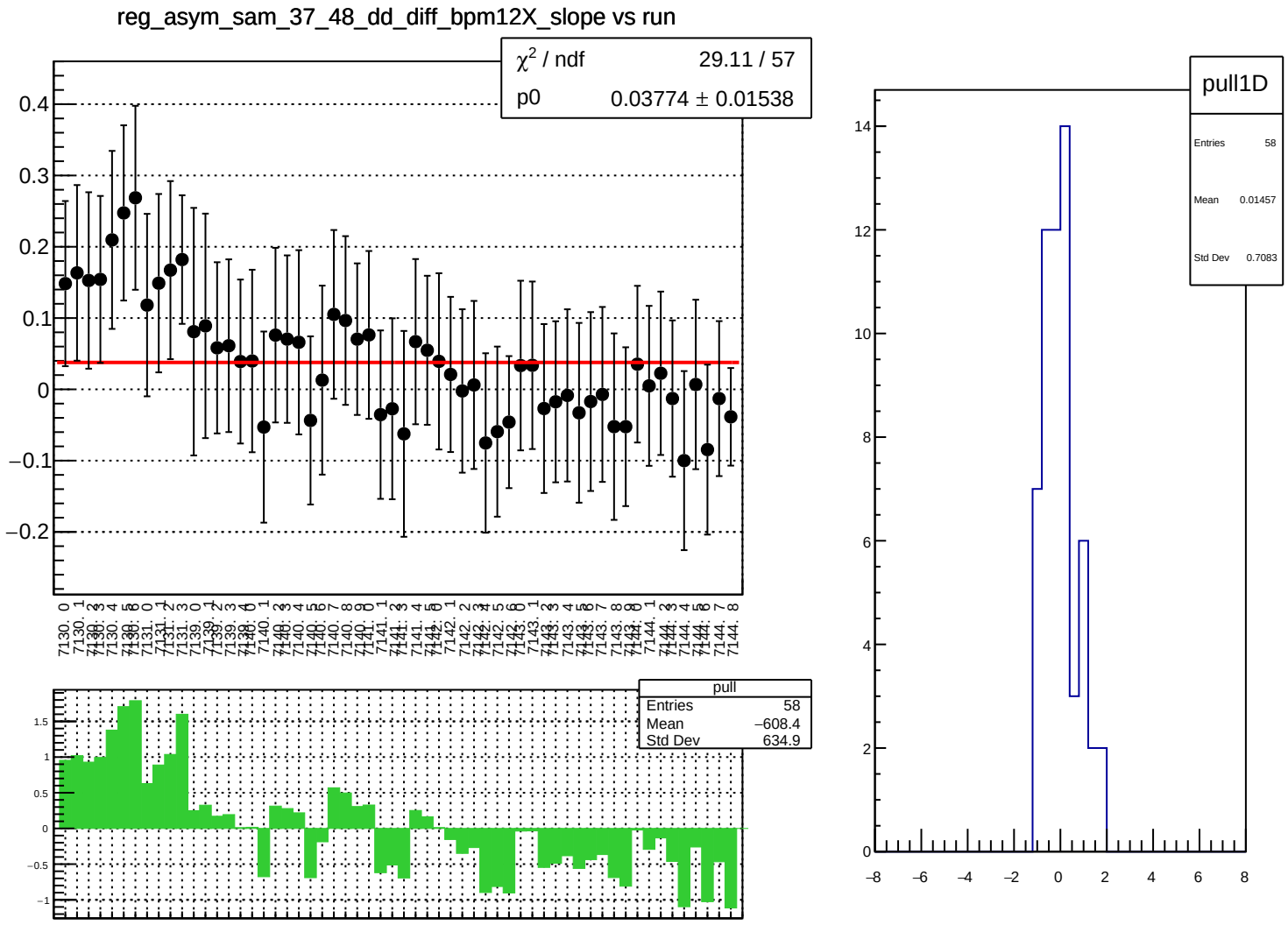

pull1D
Entries 58
Mean 0.04038
Std Dev 2.301

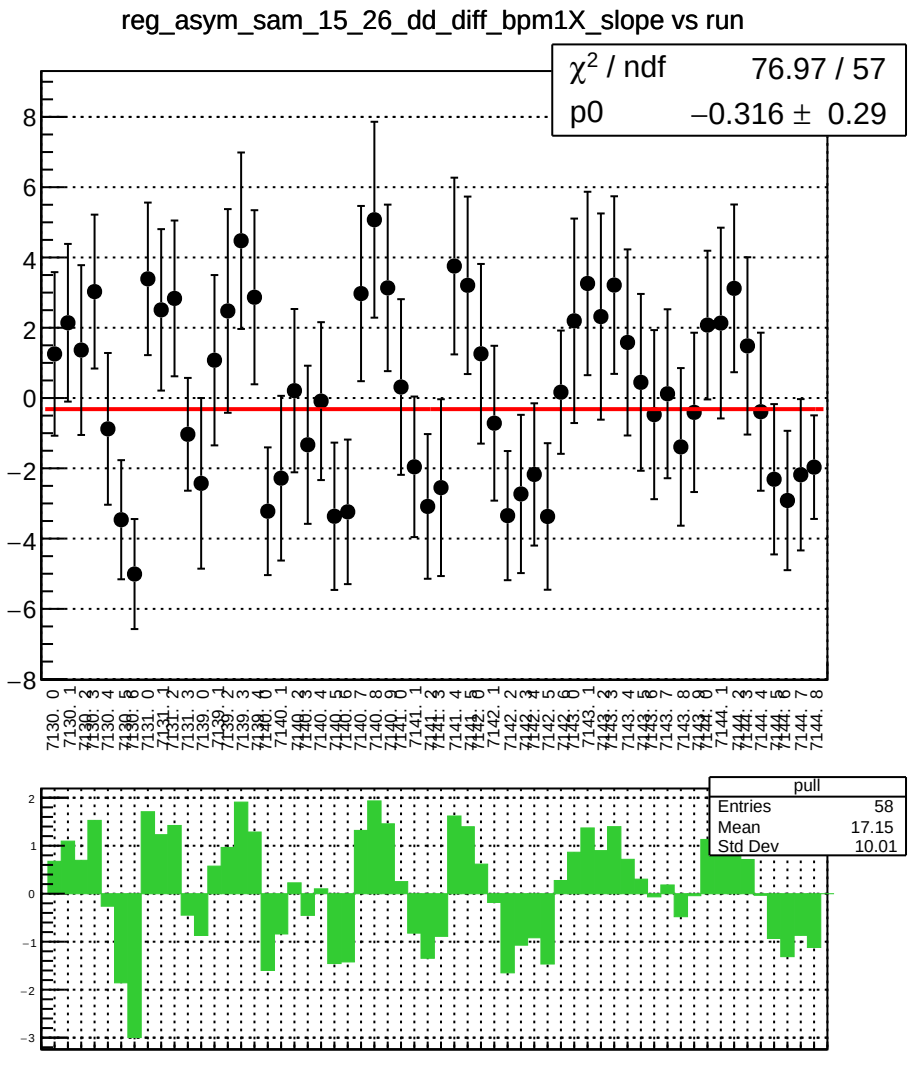

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 778.7 / 57
p0 2.037 ± 0.3496
pull
Entries 58
Mean 7.767
Std Dev 4.4

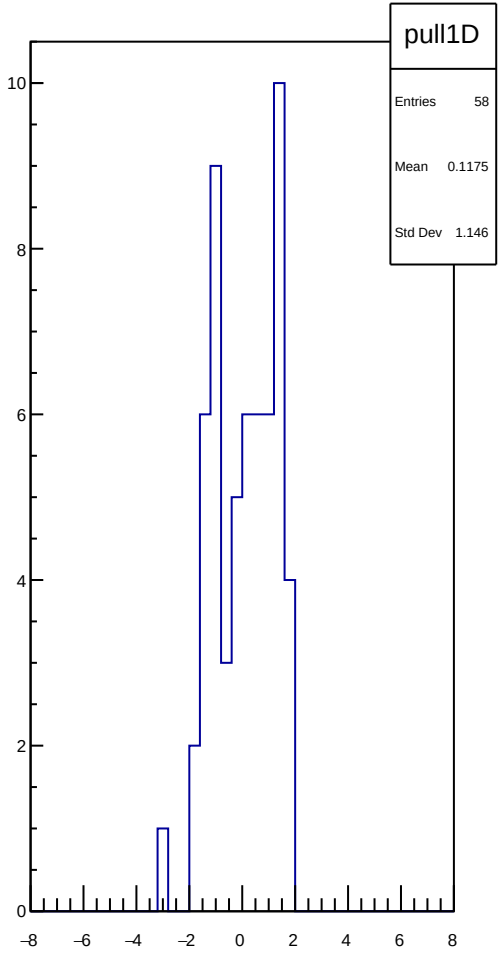

pull1D
Entries 58
Mean 0.4193
Std Dev 3.64

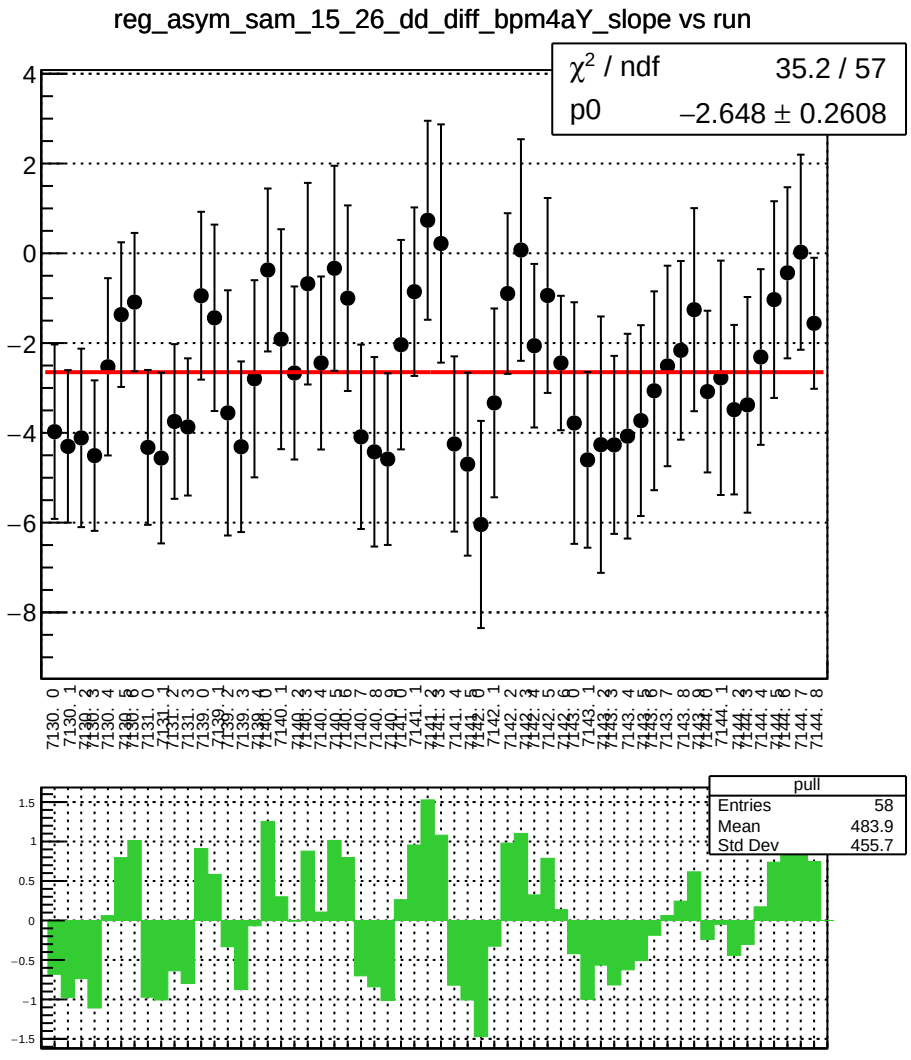

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 198.7 / 57
p0 −49.97 ± 0.3329
pull
Entries 58
Mean −68.88
Std Dev 95.17

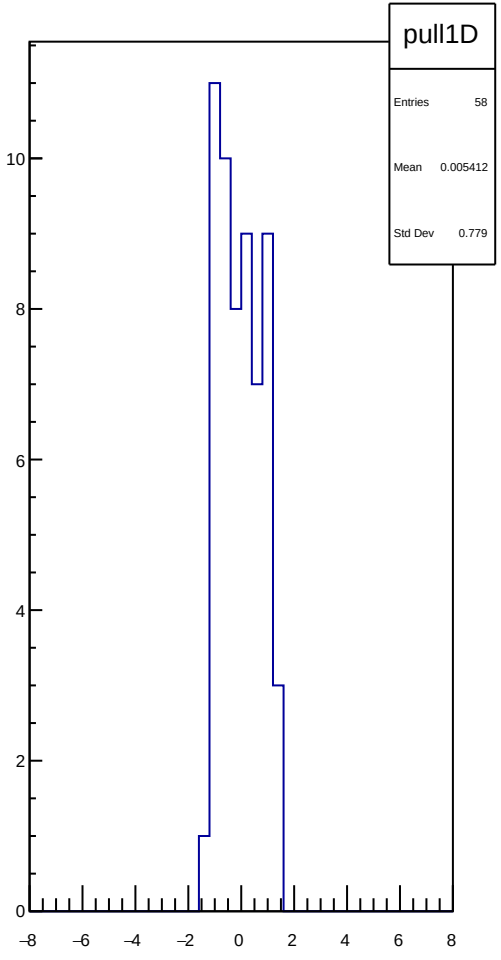

pull1D
Entries 58
Mean −0.07515
Std Dev 1.849

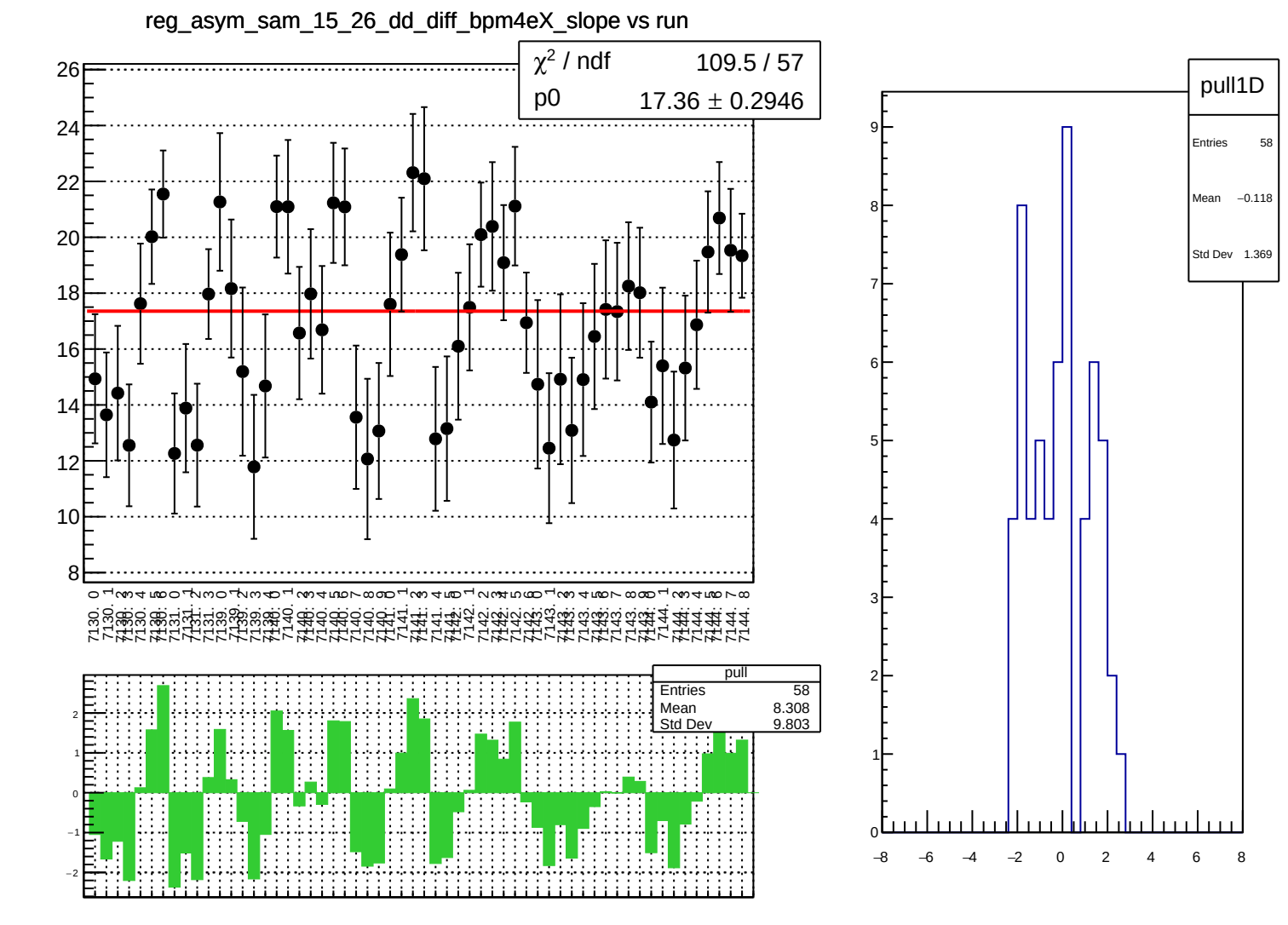

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 29.11 / 57
p0 0.03774 ± 0.01538
pull
Entries 58
Mean −608.4
Std Dev 634.9
pull1D
Entries 58
Mean 0.01457
Std Dev 0.7083

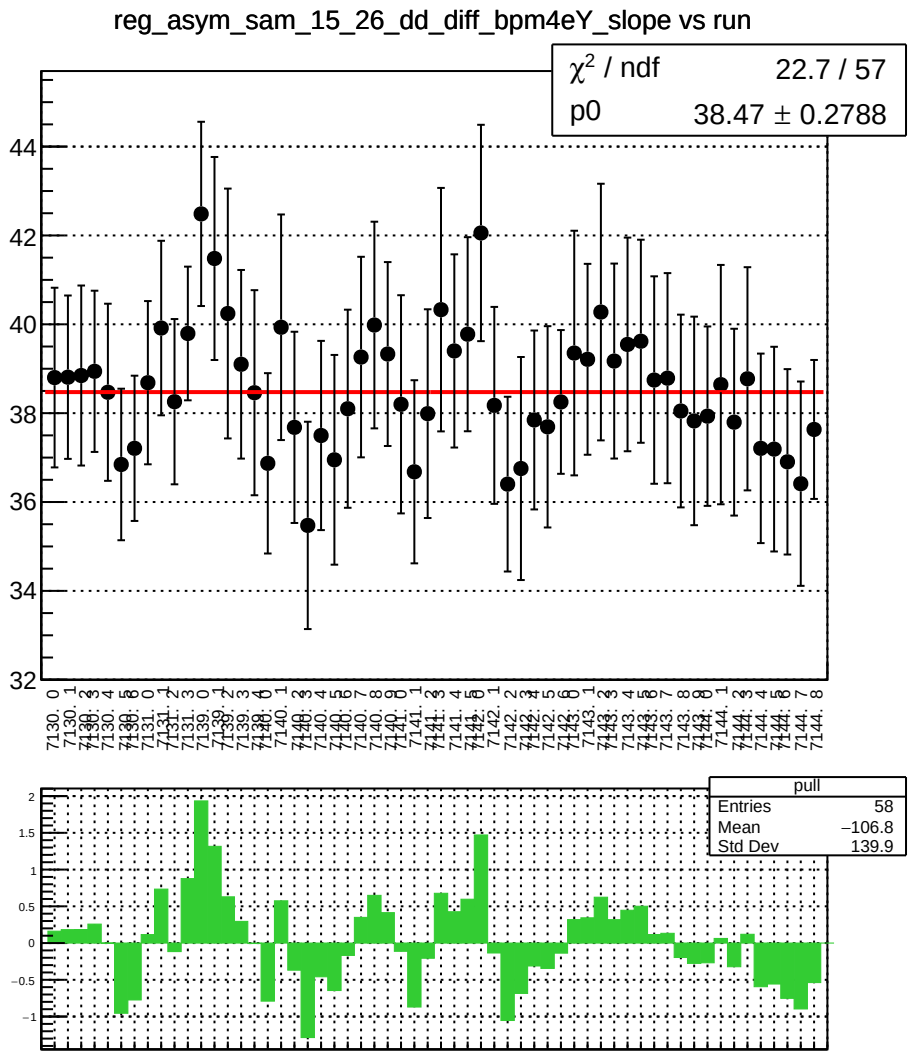

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 76.97 / 57
p0 −0.316 ± 0.29
pull
Entries 58
Mean 17.15
Std Dev 10.01

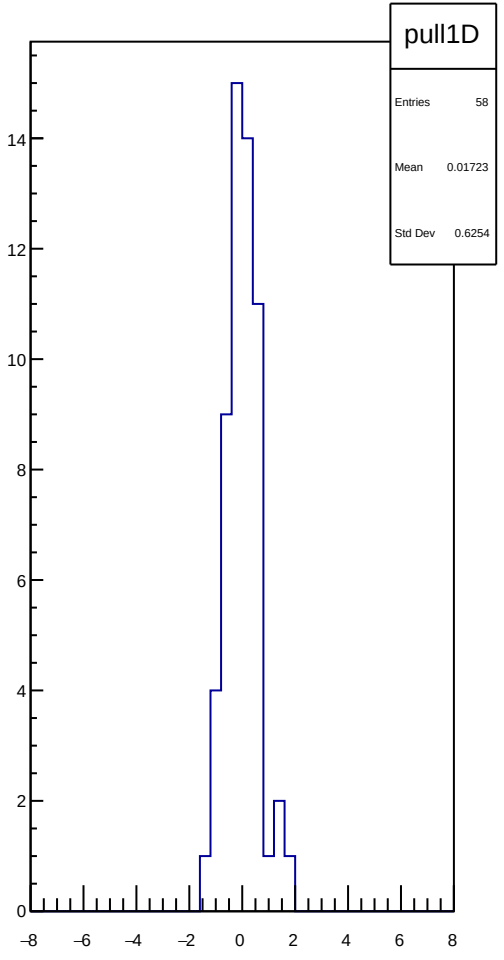

pull1D
Entries 58
Mean 0.1175
Std Dev 1.146

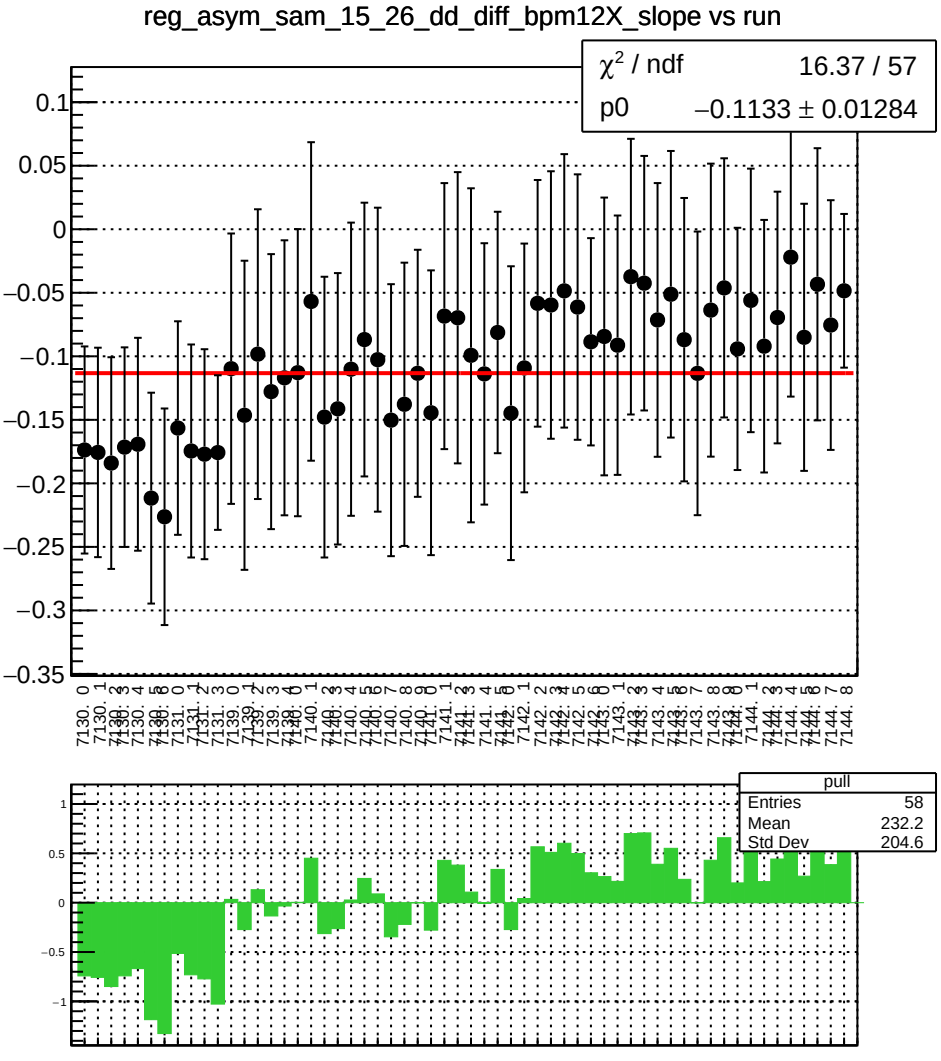

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.2 / 57
p0 −2.648 ± 0.2608
pull
Entries 58
Mean 483.9
Std Dev 455.7

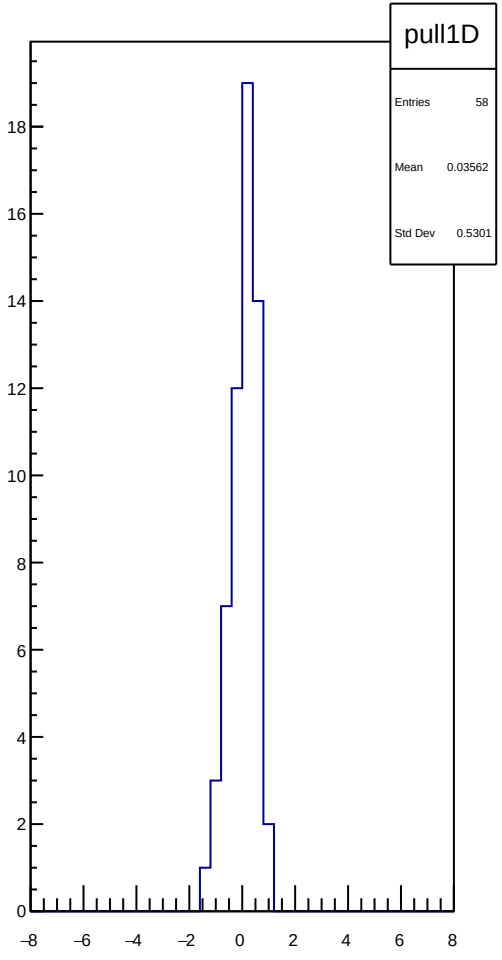

pull1D
Entries 58
Mean 0.005412
Std Dev 0.779

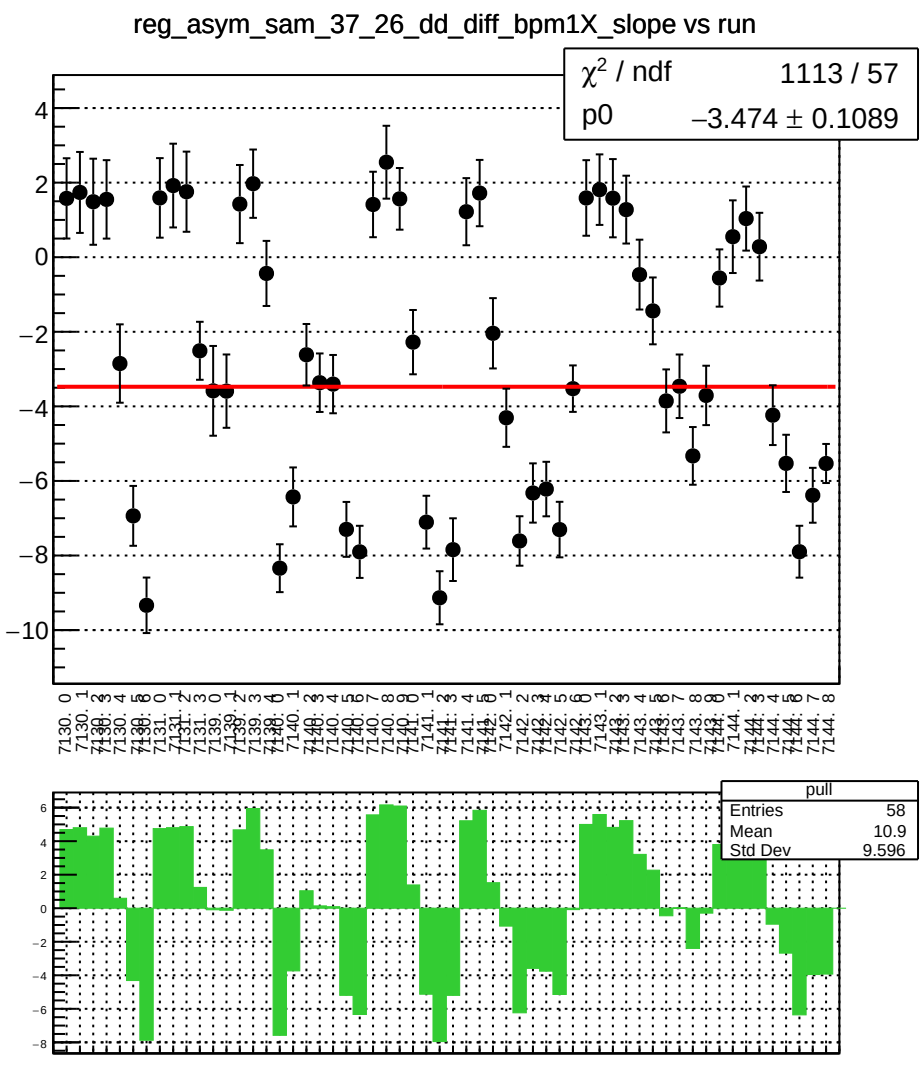

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 109.5 / 57
p0 17.36 ± 0.2946
pull
Entries 58
Mean 8.308
Std Dev 9.803
pull1D
Entries 58
Mean −0.118
Std Dev 1.369

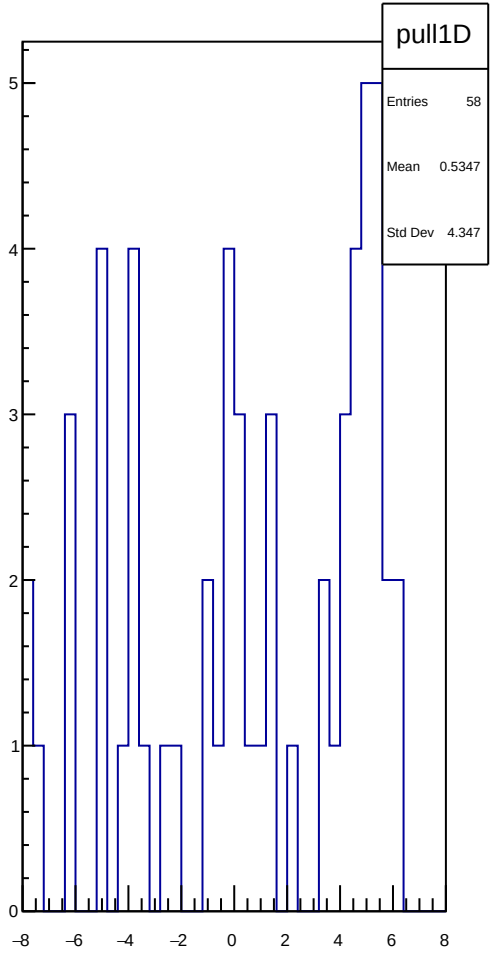

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.7 / 57
p0 38.47 ± 0.2788
pull
Entries 58
Mean −106.8
Std Dev 139.9

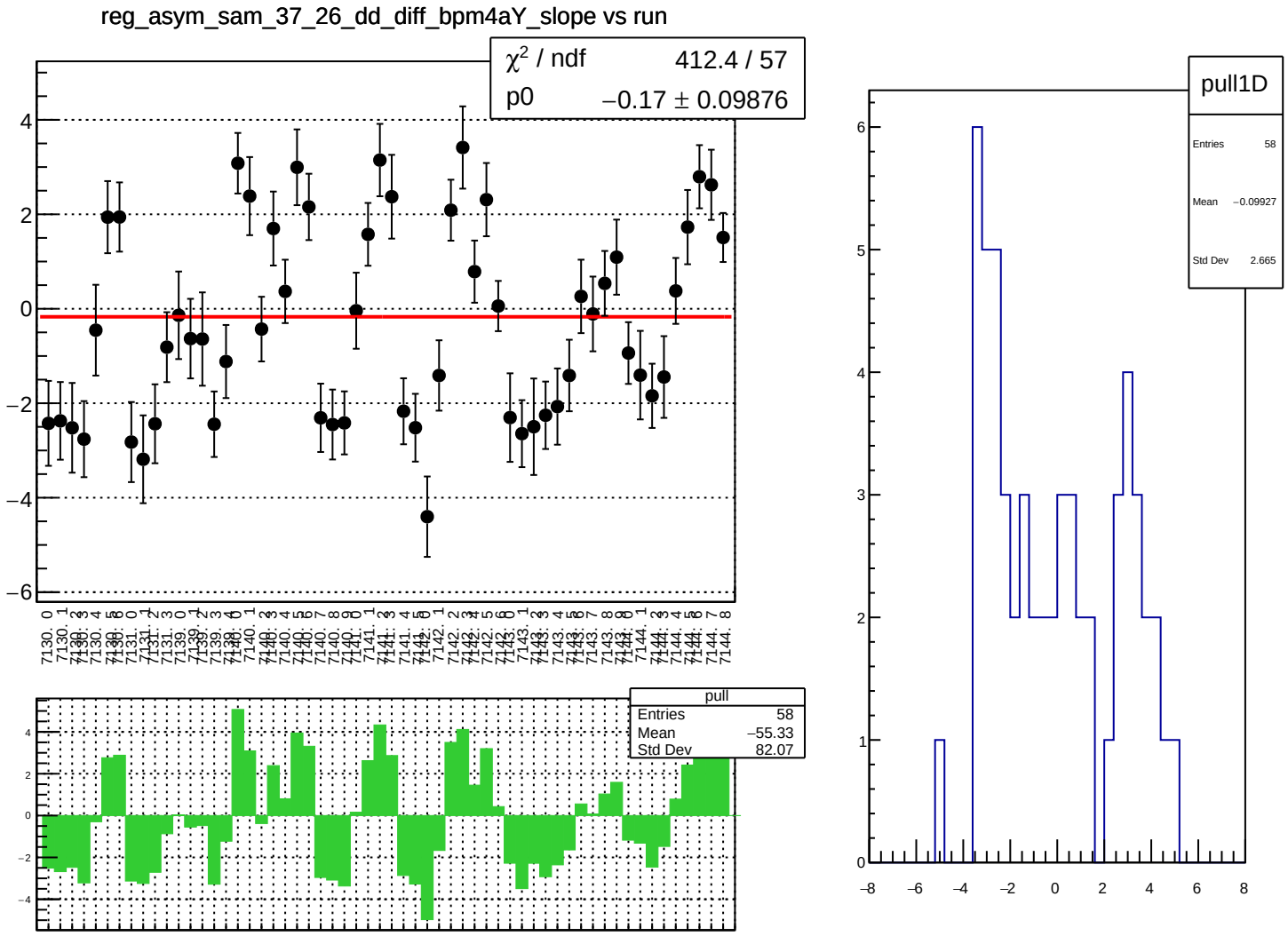

pull1D
Entries 58
Mean 0.01723
Std Dev 0.6254

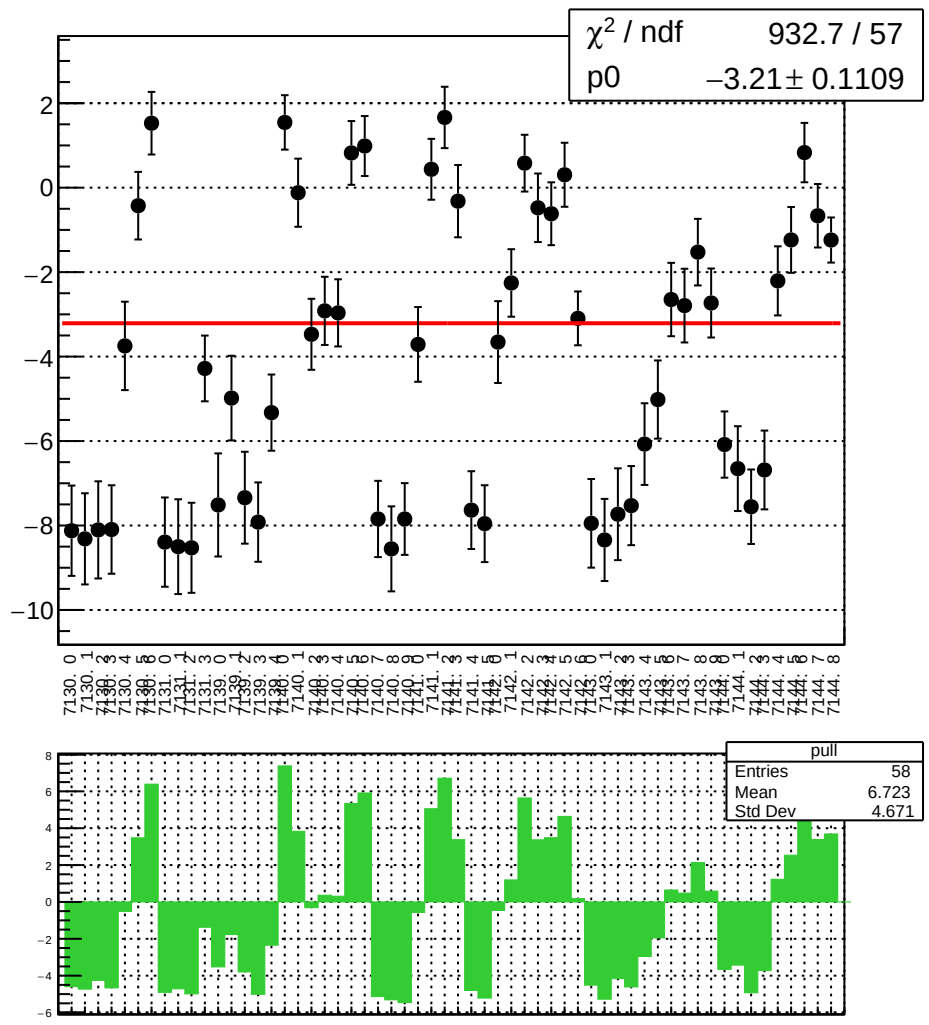

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 16.37 / 57
p0 −0.1133 ± 0.01284
pull
Entries 58
Mean 232.2
Std Dev 204.6

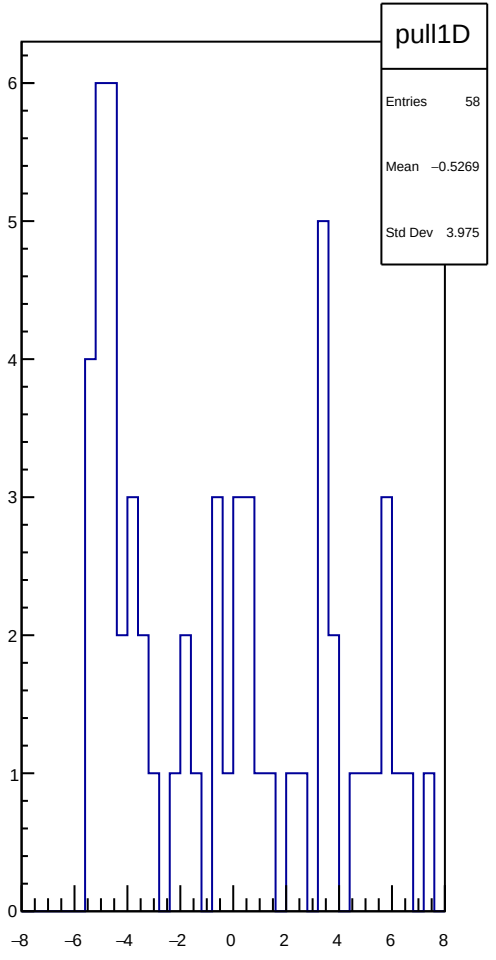

pull1D
Entries 58
Mean 0.03562
Std Dev 0.5301

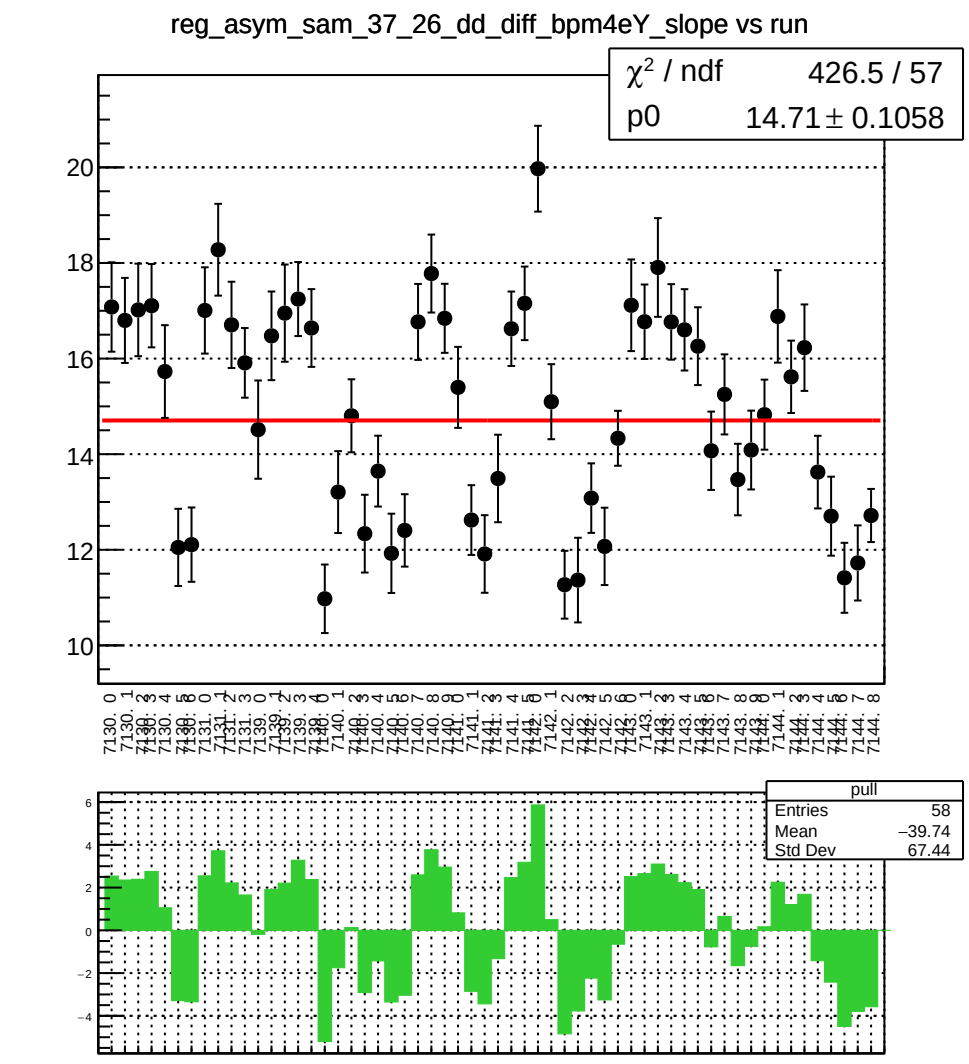

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1113 / 57
p0 −3.474 ± 0.1089
pull
Entries 58
Mean 10.9
Std Dev 9.596

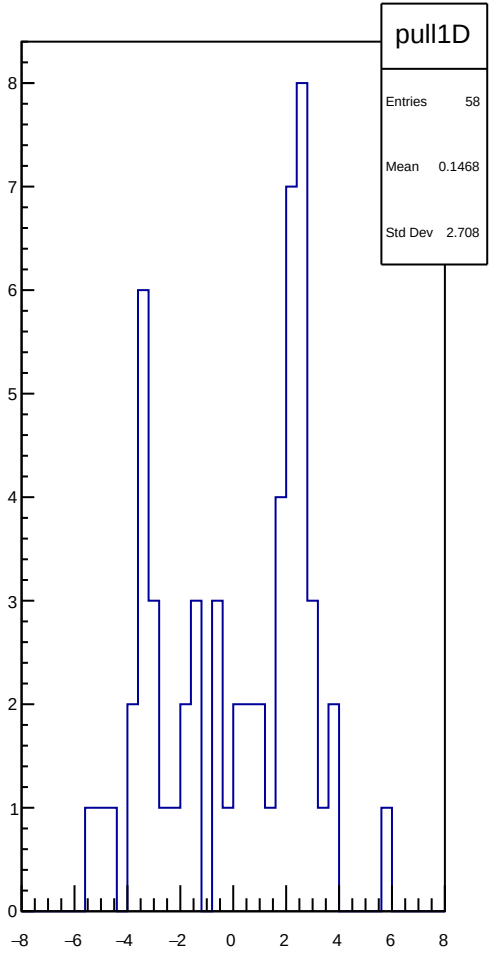

pull1D
Entries 58
Mean 0.5347
Std Dev 4.347

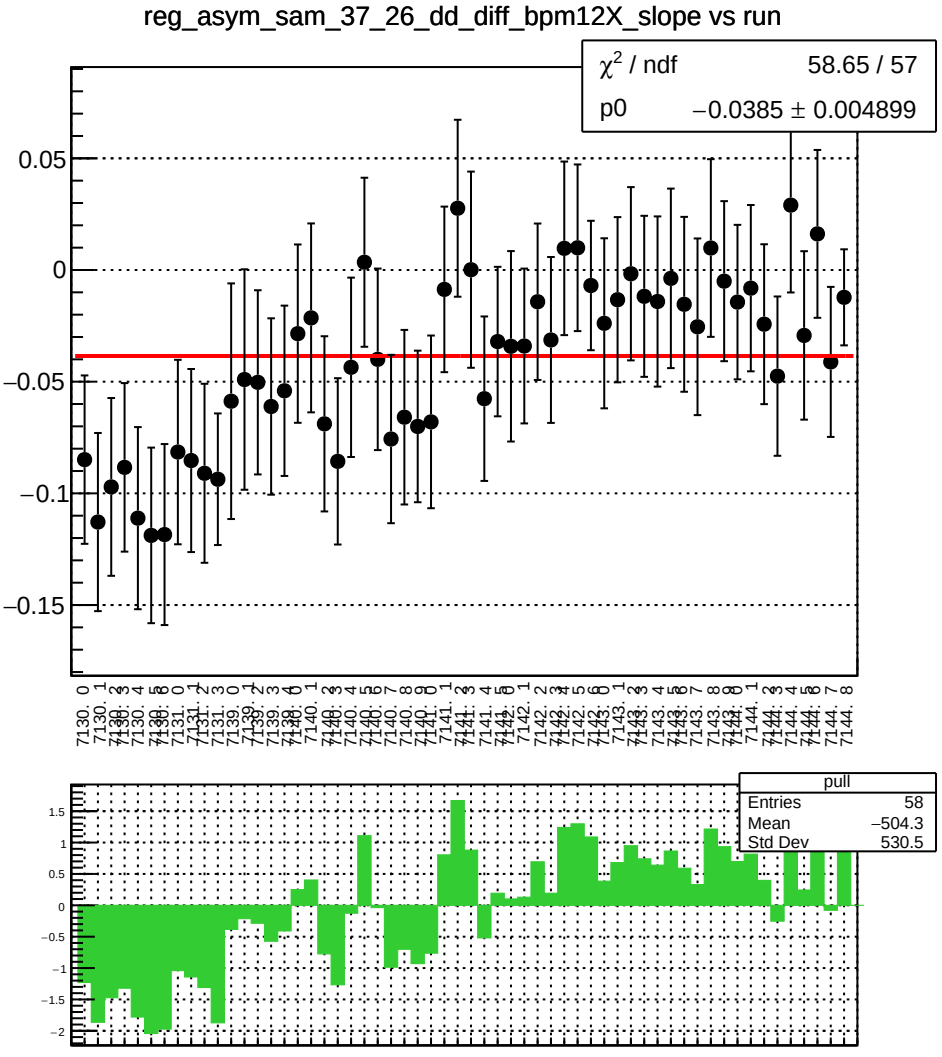

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 412.4 / 57
p0 −0.17 ± 0.09876
pull
Entries 58
Mean −55.33
Std Dev 82.07
pull1D
Entries 58
Mean −0.09927
Std Dev 2.665

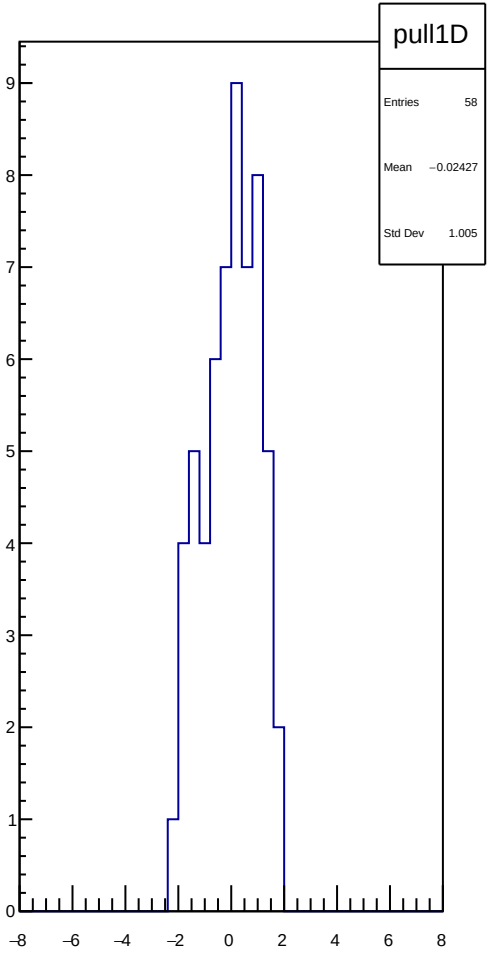

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 932.7 / 57
p0 −3.21 ± 0.1109
pull
Entries 58
Mean 6.723
Std Dev 4.671

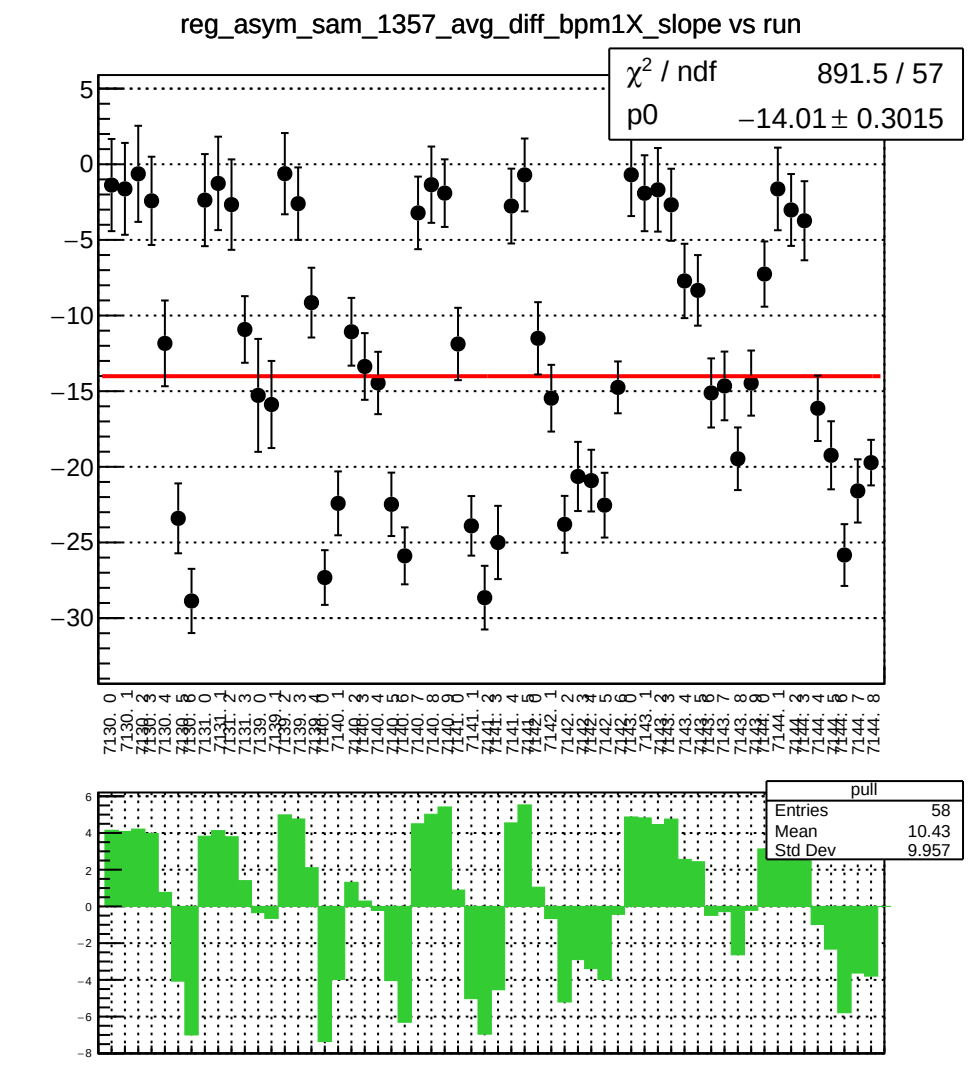

pull1D
Entries 58
Mean −0.5269
Std Dev 3.975

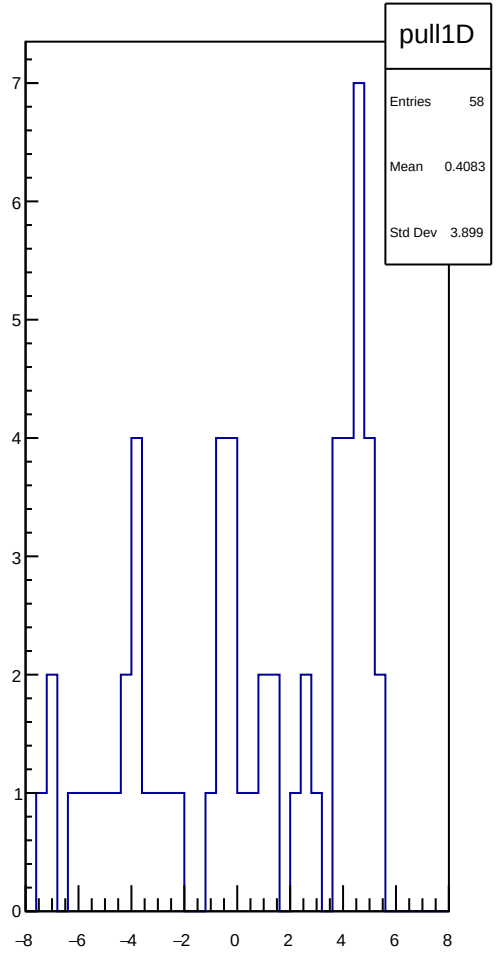

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 426.5 / 57
p0 14.71 ± 0.1058
pull
Entries 58
Mean −39.74
Std Dev 67.44

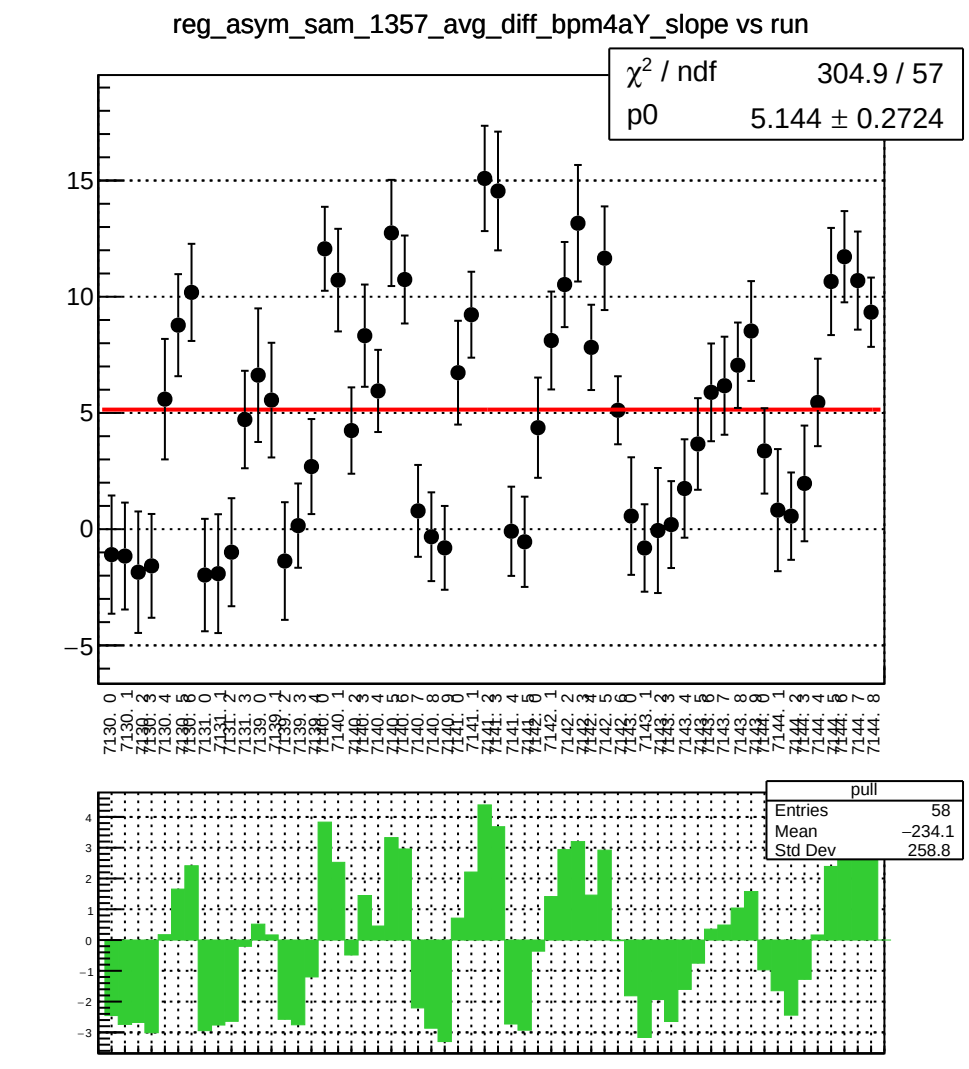

pull1D
Entries 58
Mean 0.1468
Std Dev 2.708

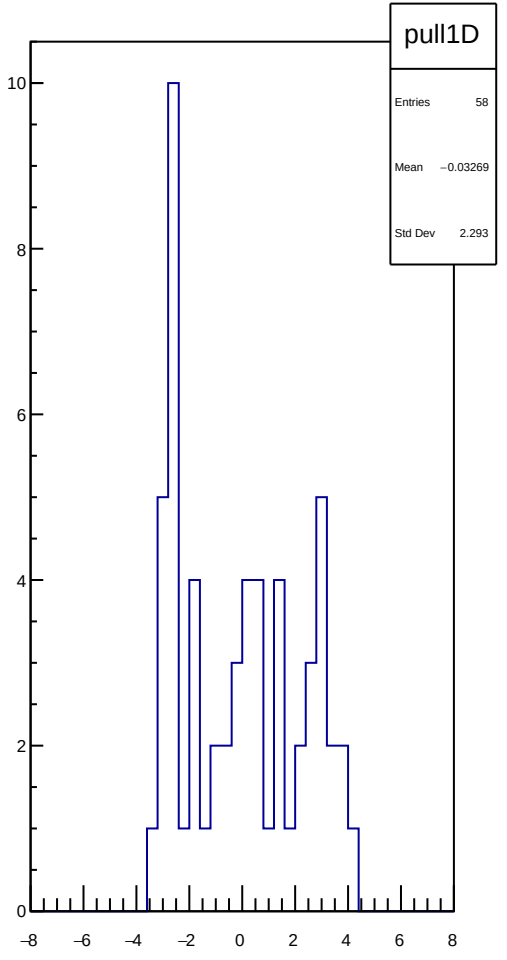

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 58.65 / 57
p0 −0.0385 ± 0.004899
0.05
0
−0.05
−0.1
−0.15
pull
Entries 58
Mean −504.3
Std Dev 530.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

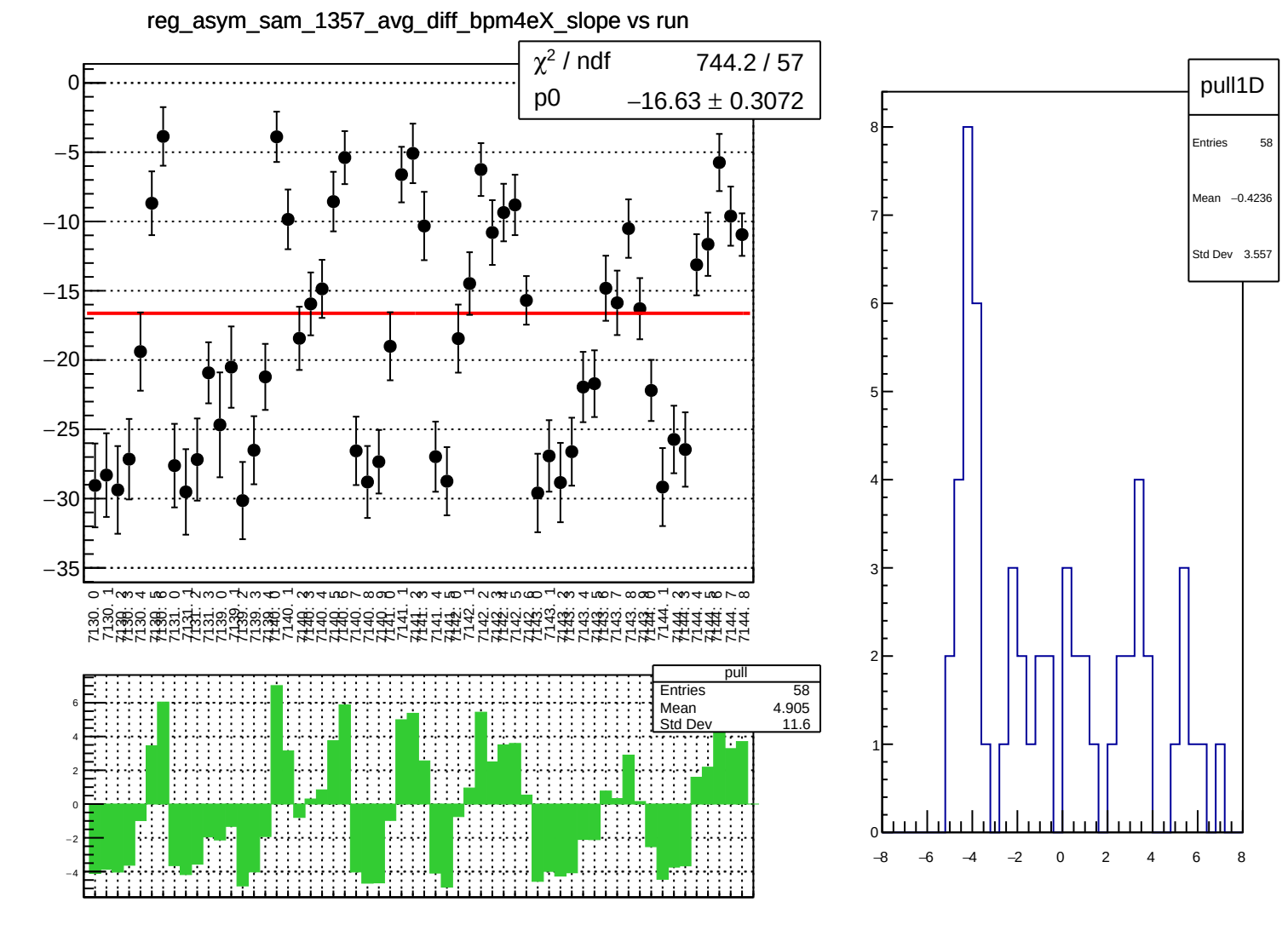

pull1D
Entries 58
Mean −0.02427
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

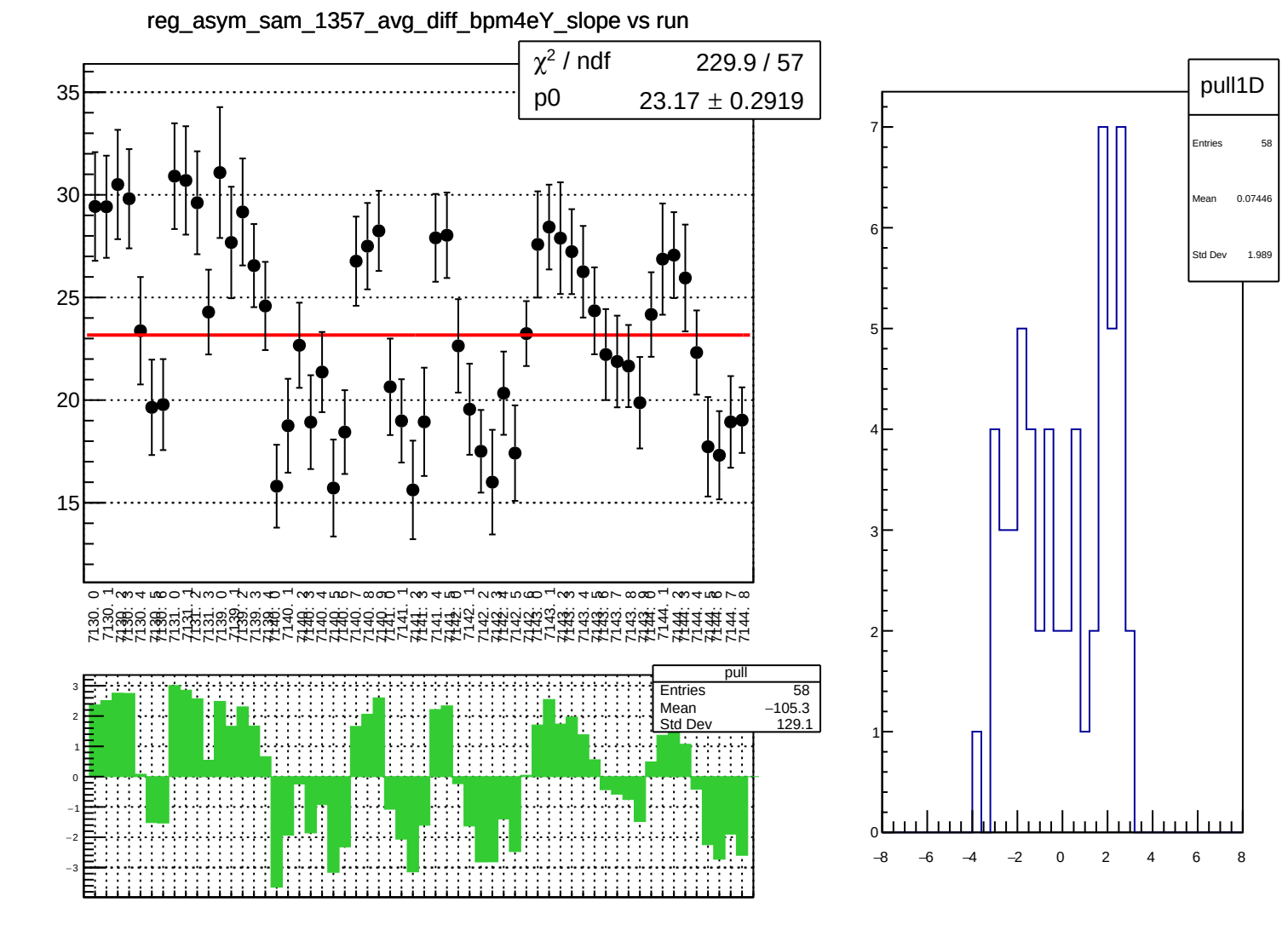

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 891.5 / 57
p0 −14.01 ± 0.3015
pull
Entries 58
Mean 10.43
Std Dev 9.957

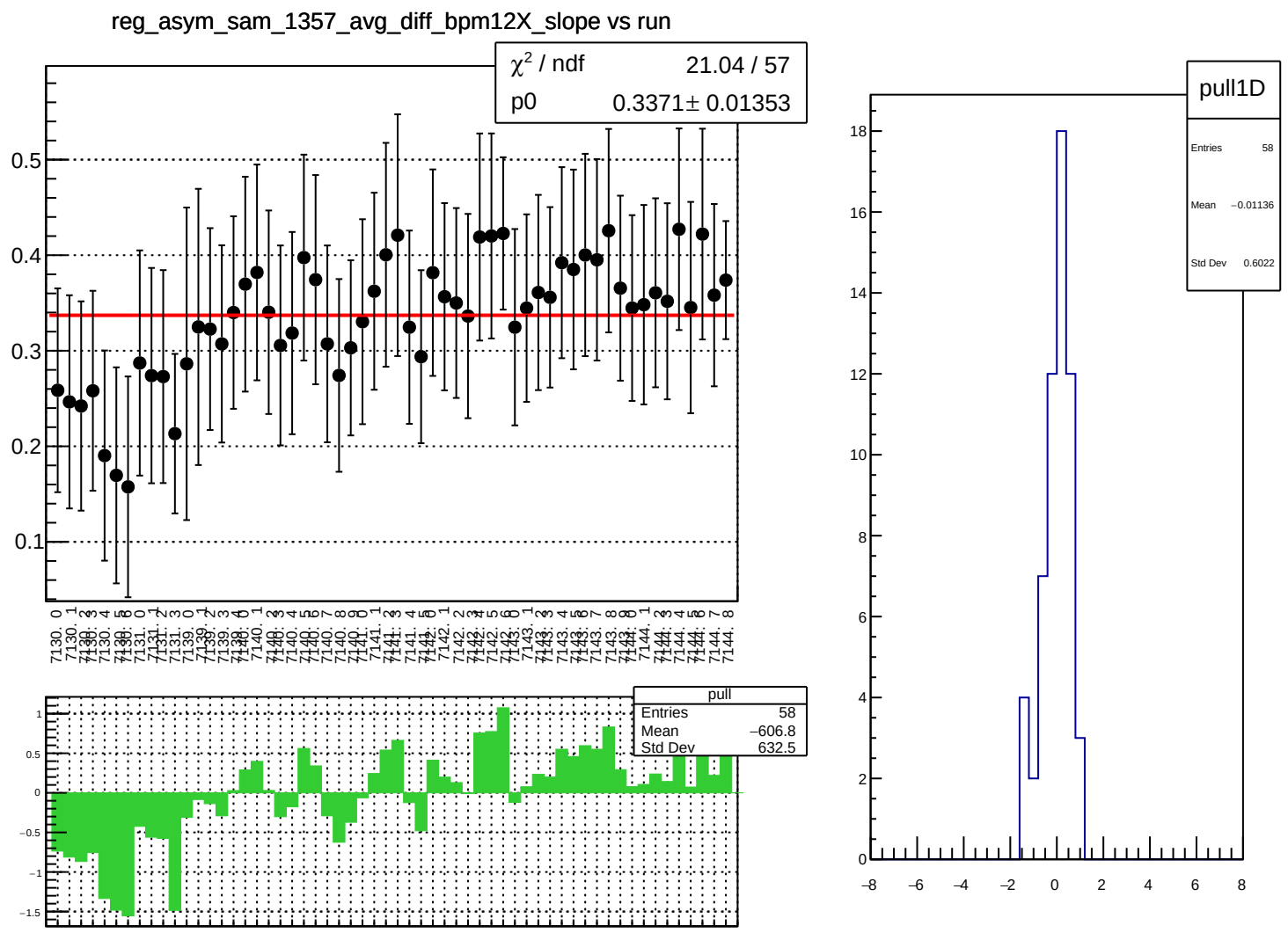

pull1D
Entries 58
Mean 0.4083
Std Dev 3.899

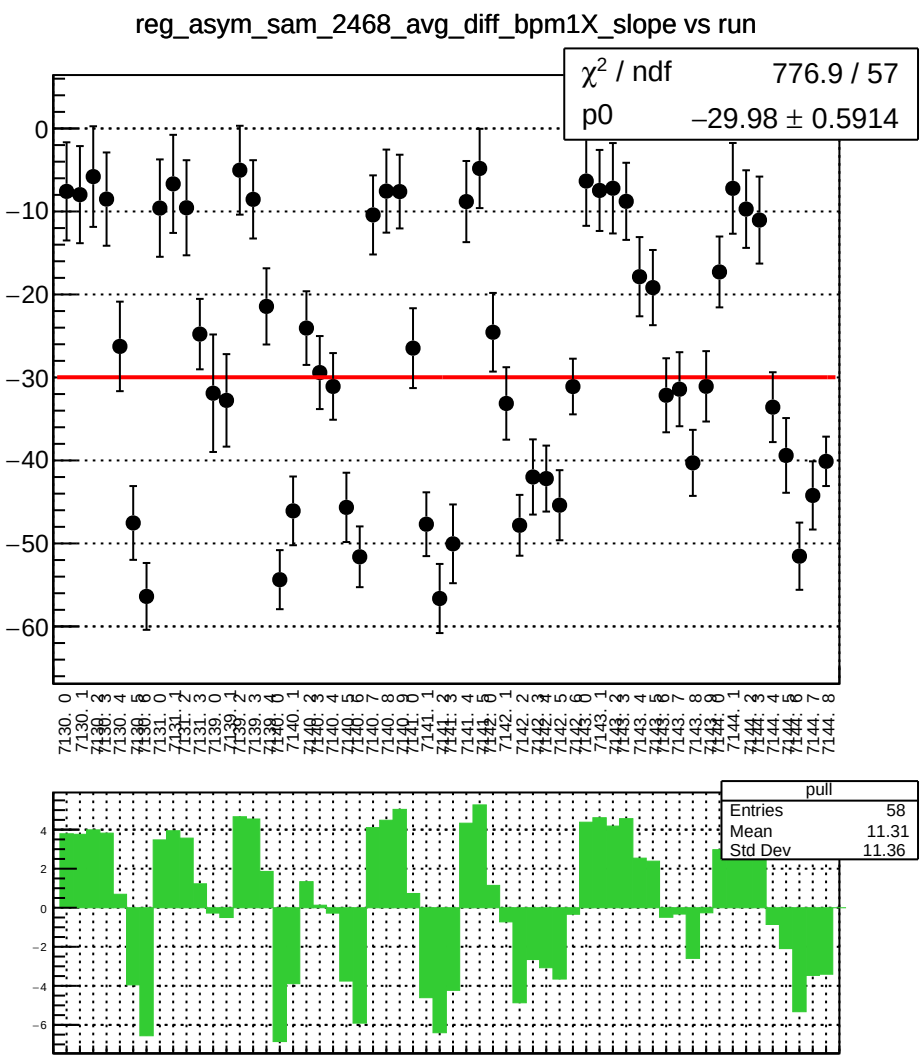

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 304.9 / 57
p0 5.144 ± 0.2724
pull
Entries 58
Mean −234.1
Std Dev 258.8

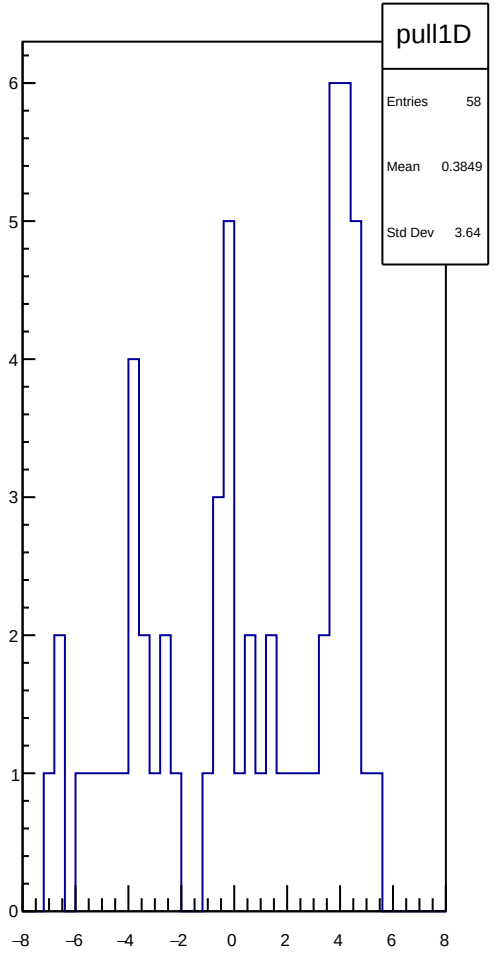

pull1D
Entries 58
Mean −0.03269
Std Dev 2.293

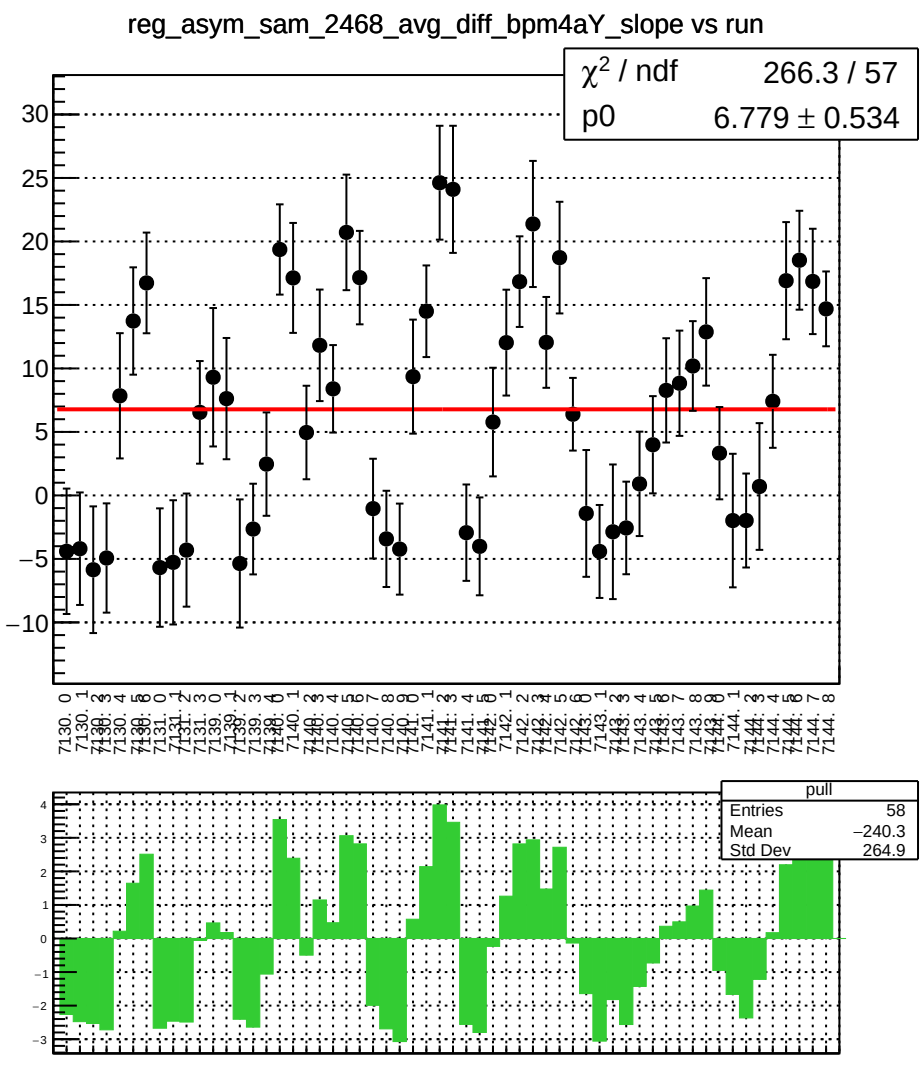

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 744.2 / 57
p0 −16.63 ± 0.3072
pull
Entries 58
Mean 4.905
Std Dev 11.6
pull1D
Entries 58
Mean −0.4236
Std Dev 3.557

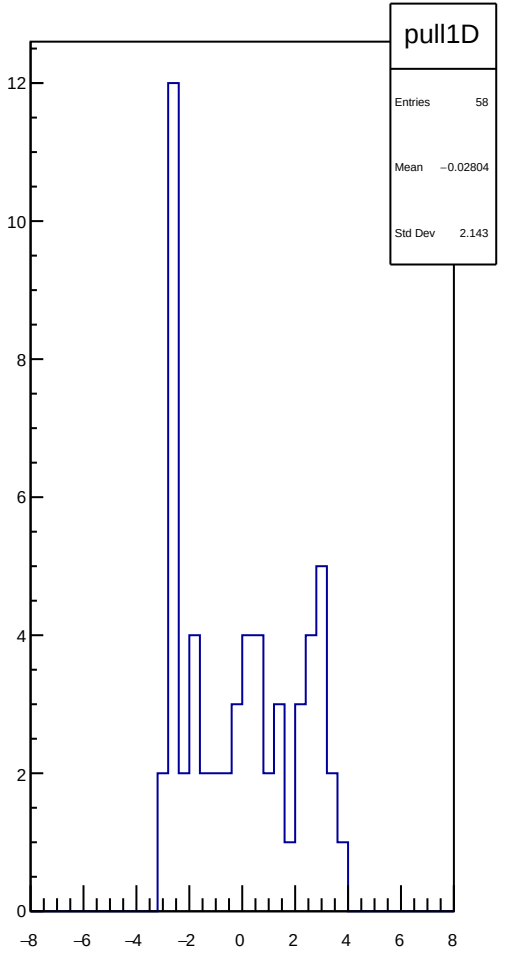

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 229.9 / 57
p0 23.17 ± 0.2919
pull
Entries 58
Mean −105.3
Std Dev 129.1
pull1D
Entries 58
Mean 0.07446
Std Dev 1.989

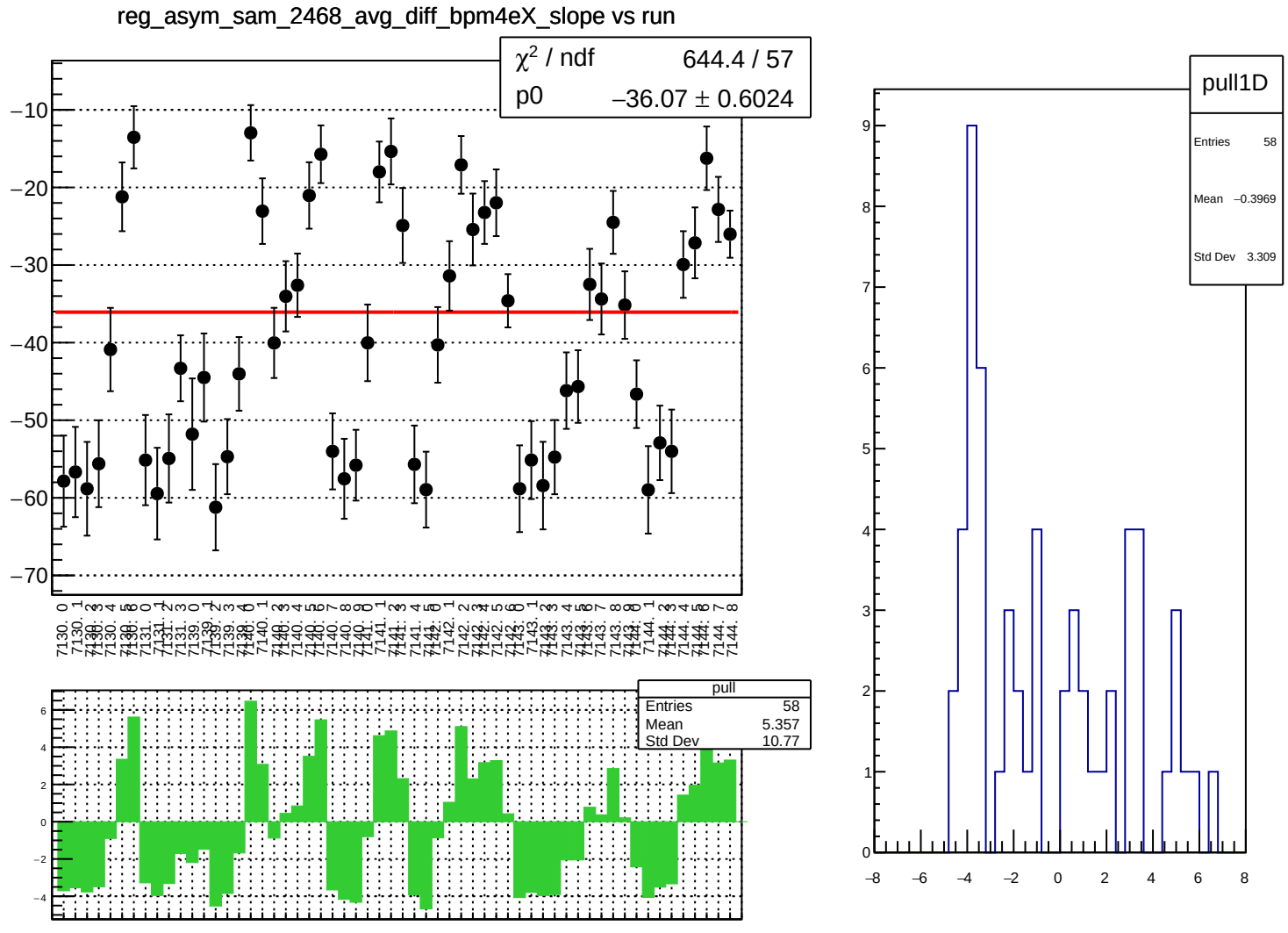

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 21.04 / 57
p0 0.3371± 0.01353
pull
Entries 58
Mean −606.8
Std Dev 632.5
pull1D
Entries 58
Mean −0.01136
Std Dev 0.6022

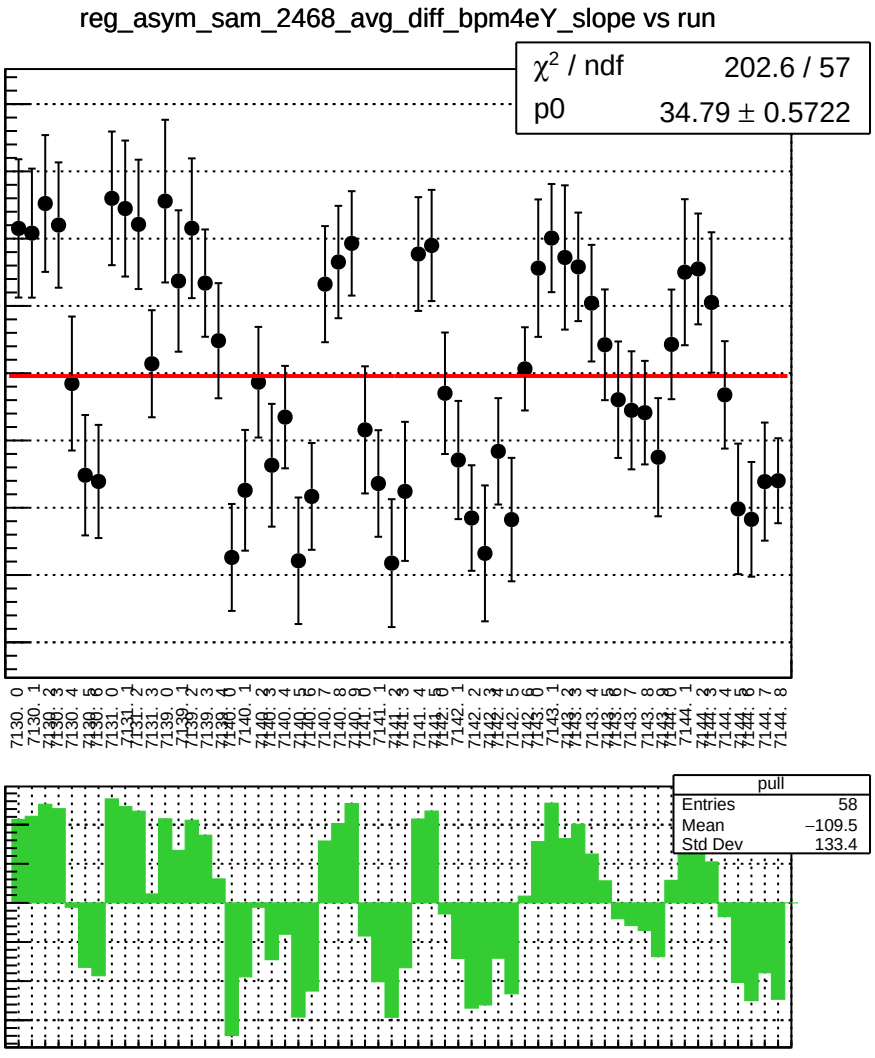

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 776.9 / 57
p0 −29.98 ± 0.5914
pull
Entries 58
Mean 11.31
Std Dev 11.36

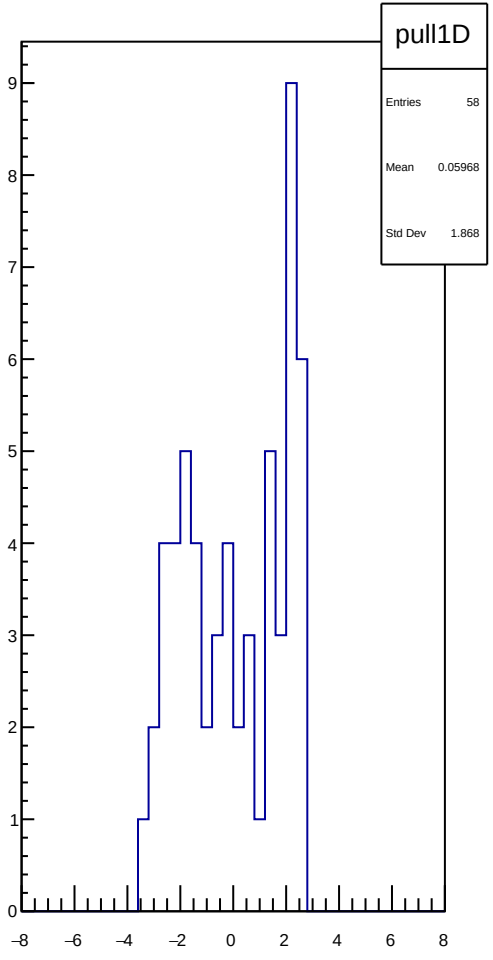

pull1D
Entries 58
Mean 0.3849
Std Dev 3.64

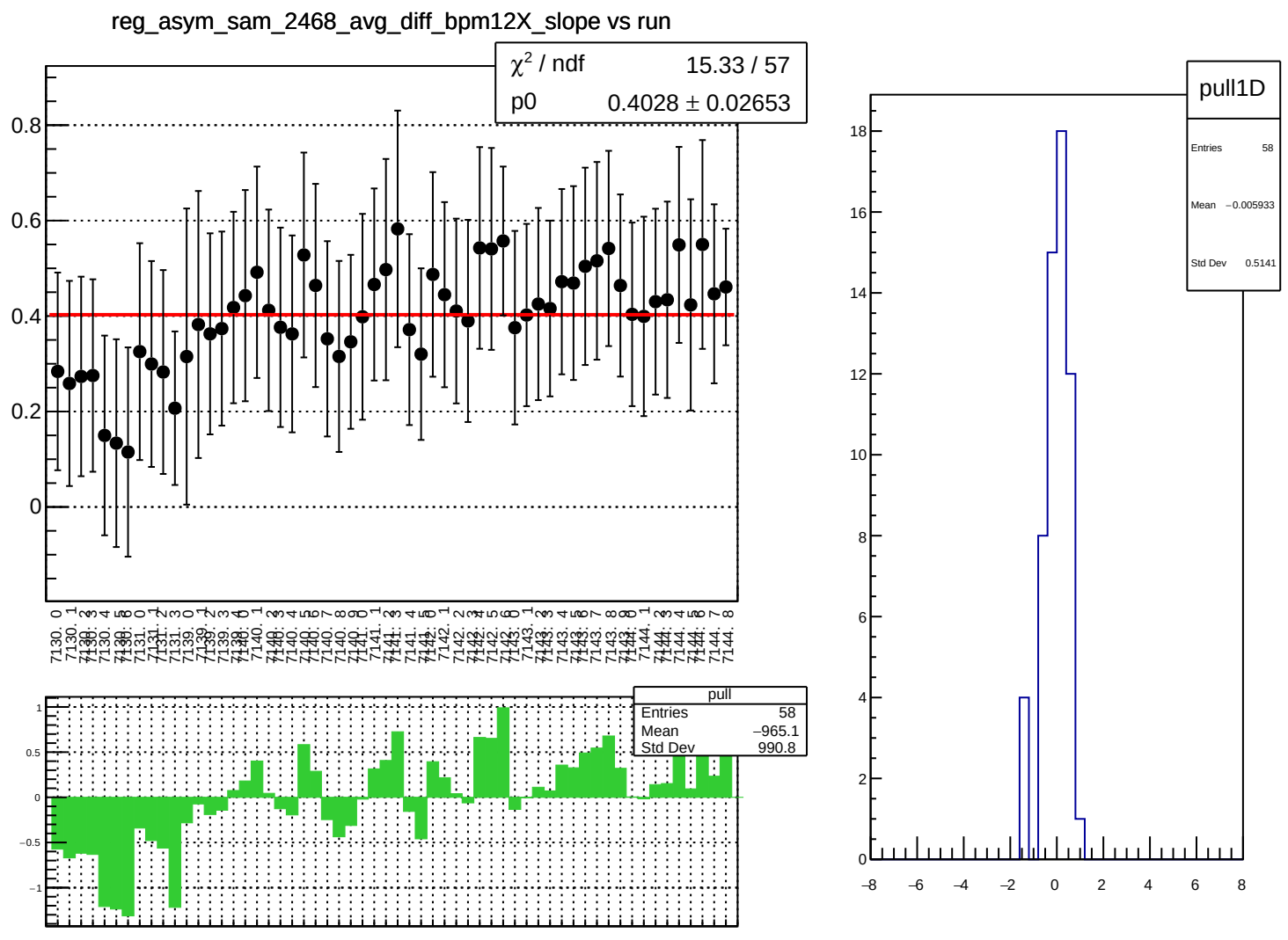

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 266.3 / 57
p0 6.779 ± 0.534
pull
Entries 58
Mean −240.3
Std Dev 264.9

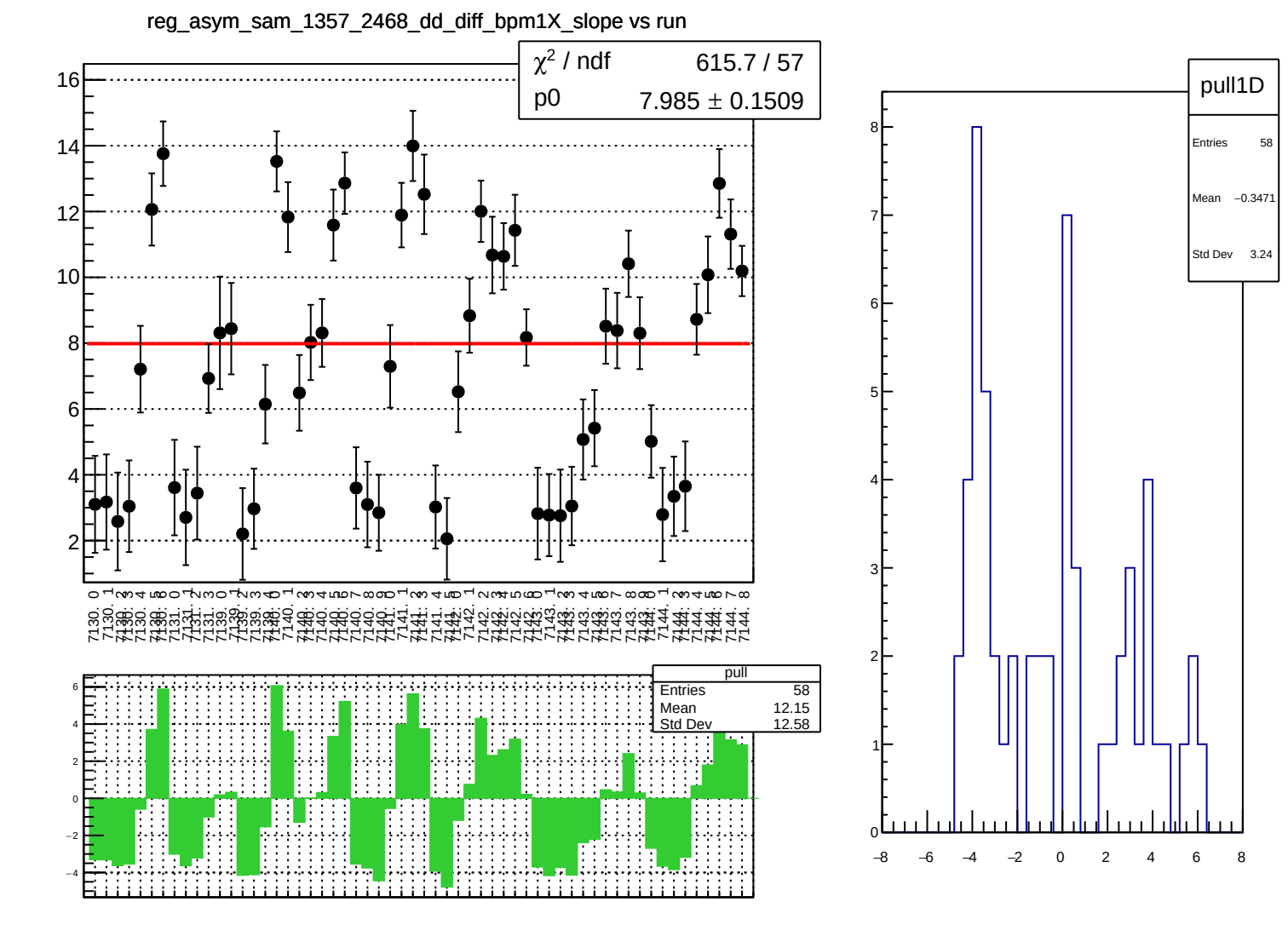

pull1D
Entries 58
Mean −0.02804
Std Dev 2.143

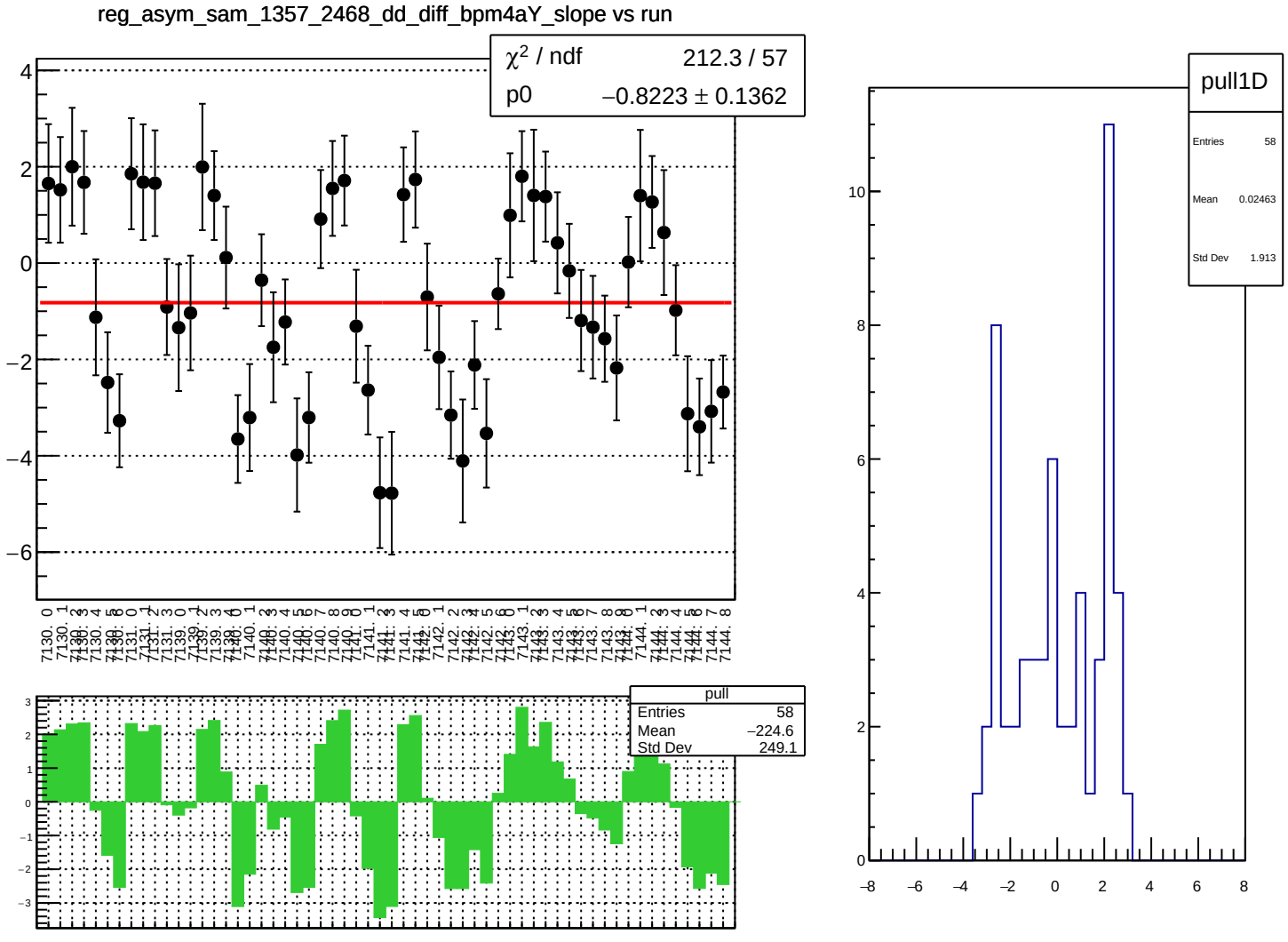

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 644.4 / 57
p0 −36.07 ± 0.6024
pull
Entries 58
Mean 5.357
Std Dev 10.77
pull1D
Entries 58
Mean −0.3969
Std Dev 3.309

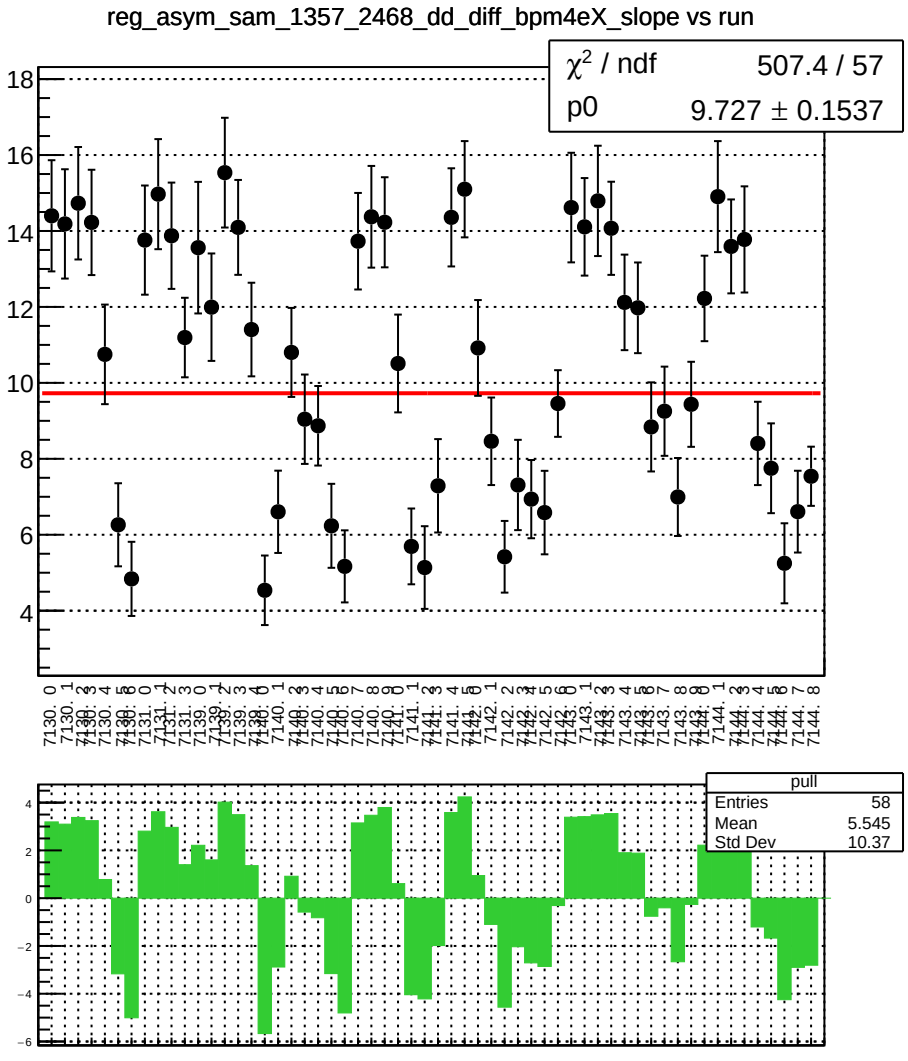

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 202.6 / 57
p0 34.79 ± 0.5722
pull
Entries 58
Mean −109.5
Std Dev 133.4

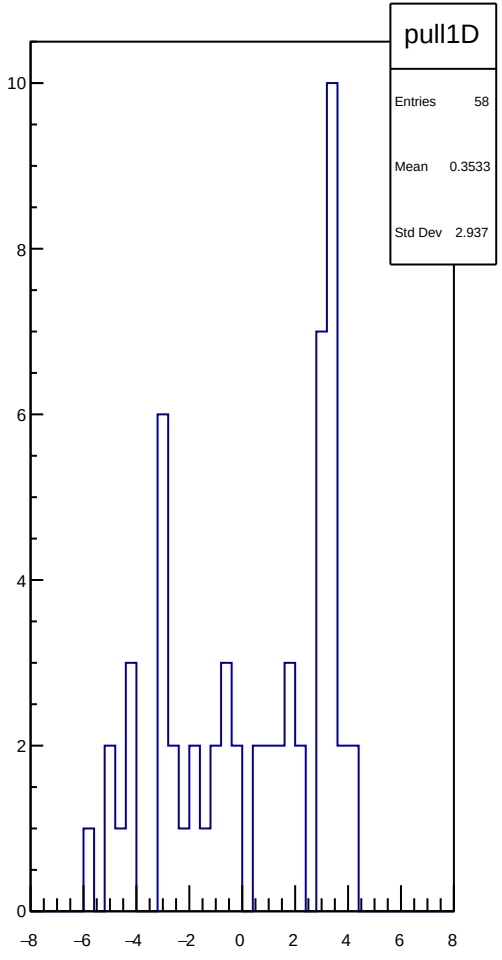

pull1D
Entries 58
Mean 0.05968
Std Dev 1.868

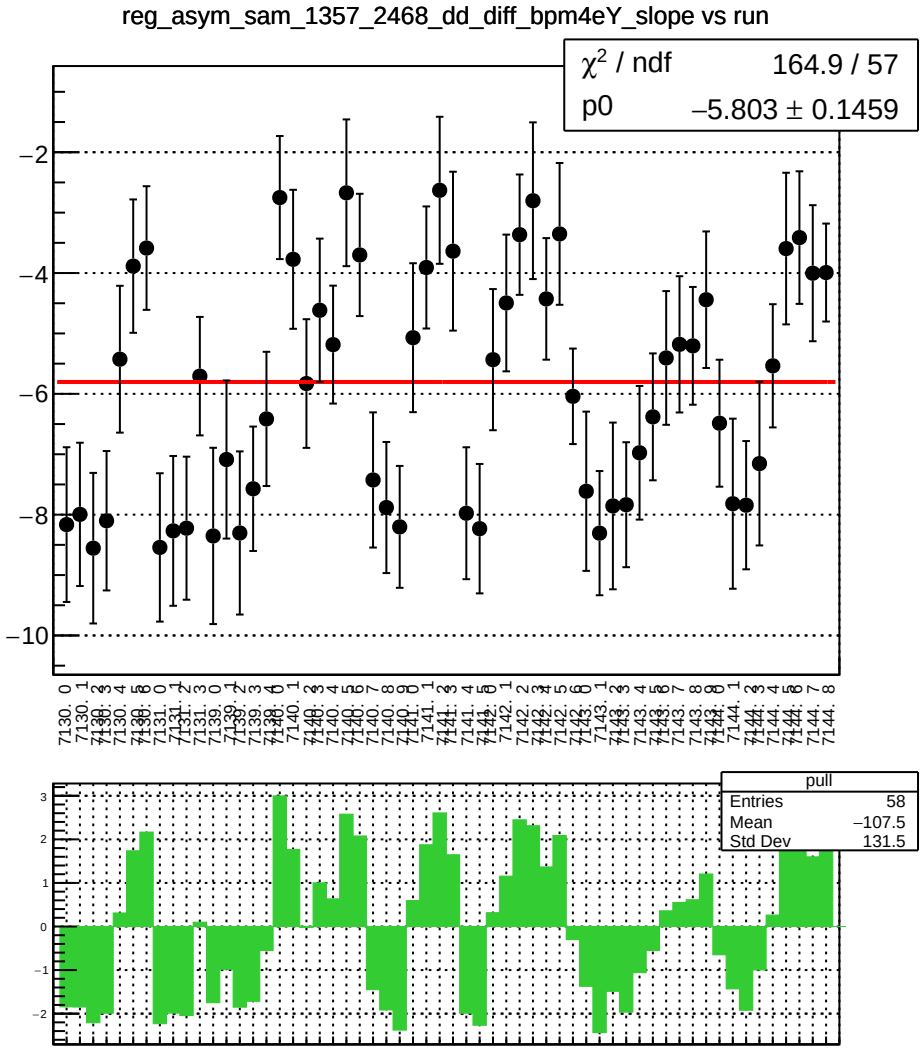

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 15.33 / 57
p0 0.4028 ± 0.02653
pull
Entries 58
Mean −965.1
Std Dev 990.8
pull1D
Entries 58
Mean −0.005933
Std Dev 0.5141

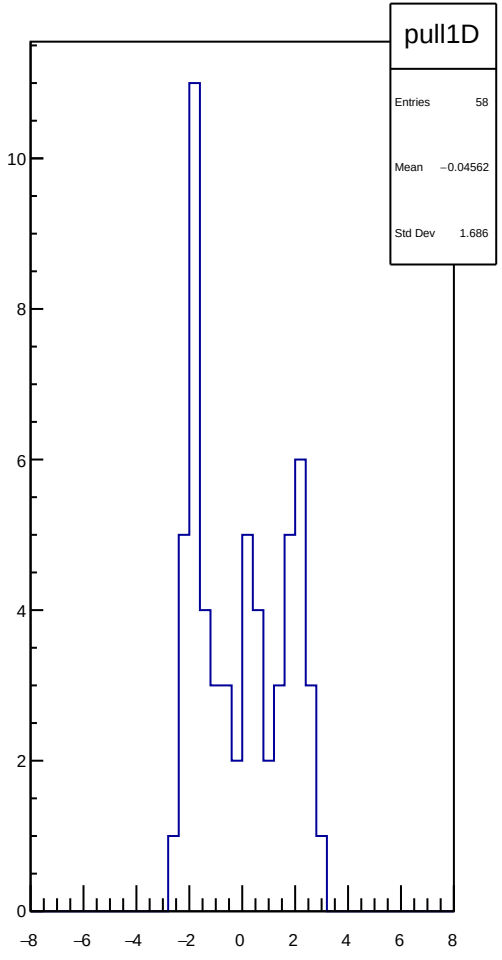

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 615.7 / 57
p0 7.985 ± 0.1509
pull
Entries 58
Mean 12.15
Std Dev 12.58
pull1D
Entries 58
Mean −0.3471
Std Dev 3.24

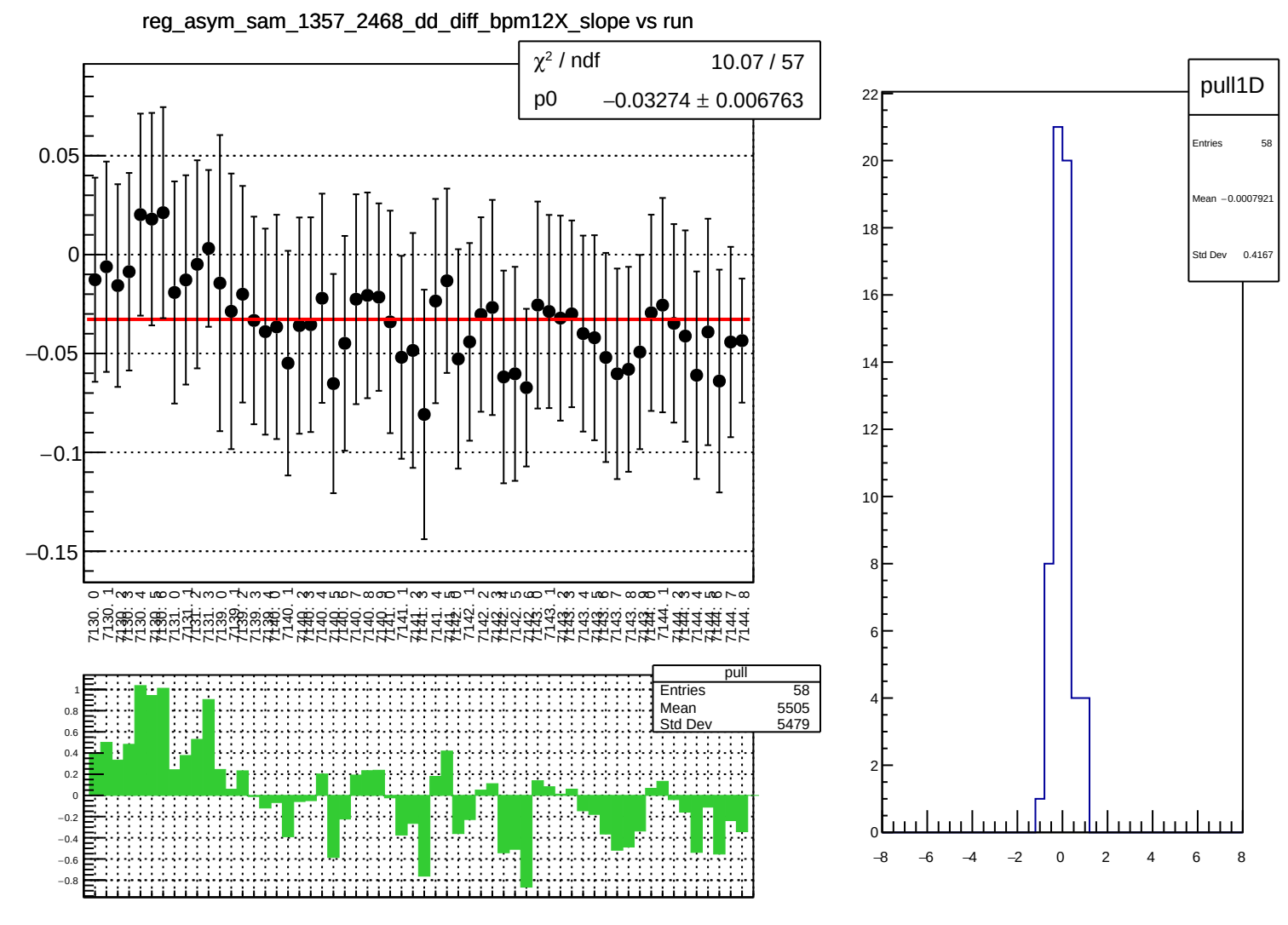

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 212.3 / 57
p0 −0.8223 ± 0.1362
pull
Entries 58
Mean −224.6
Std Dev 249.1
pull1D
Entries 58
Mean 0.02463
Std Dev 1.913

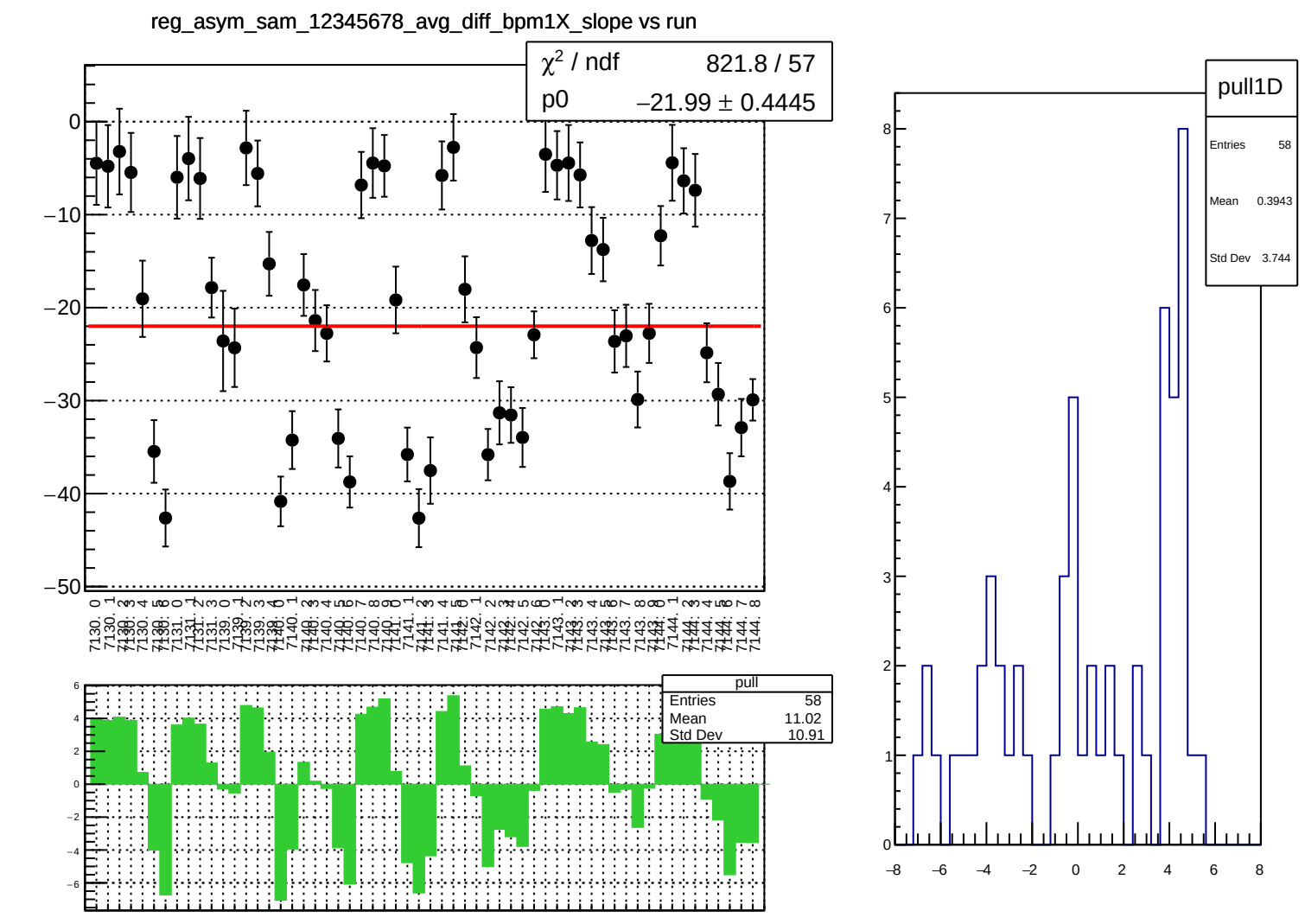

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 507.4 / 57
p0 9.727 ± 0.1537
pull
Entries 58
Mean 5.545
Std Dev 10.37

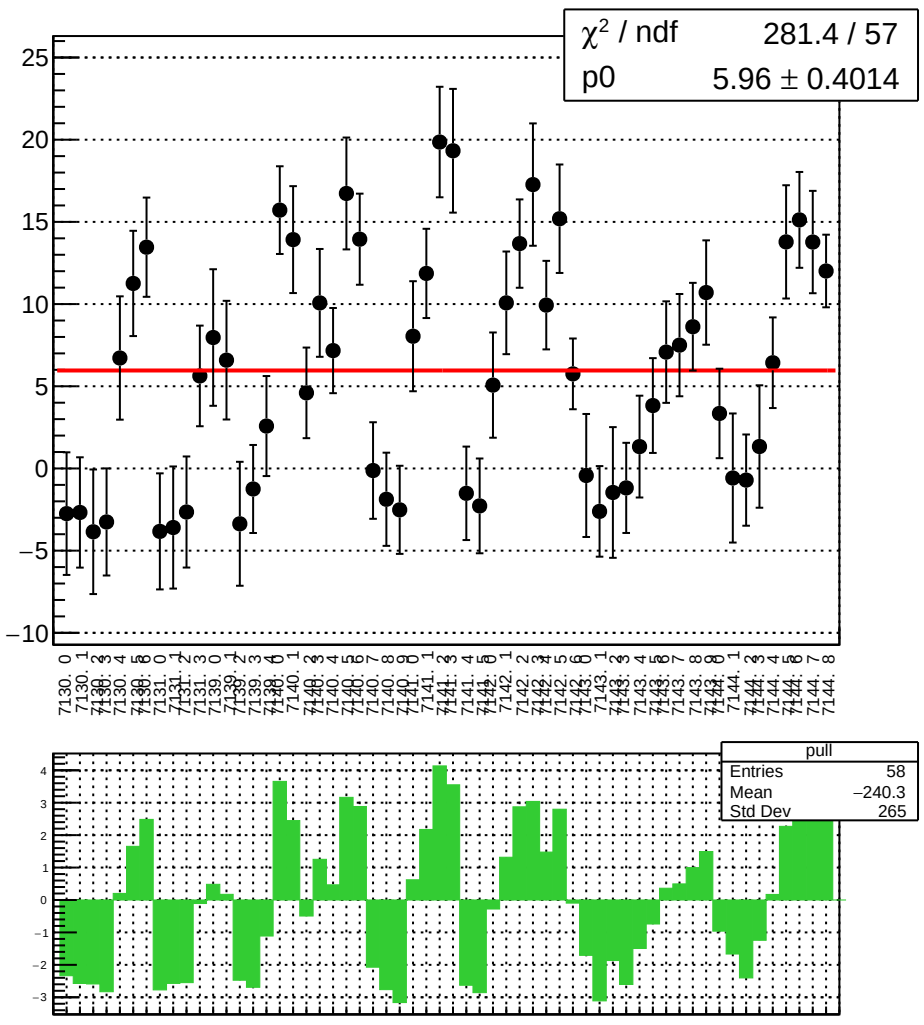

pull1D
Entries 58
Mean 0.3533
Std Dev 2.937

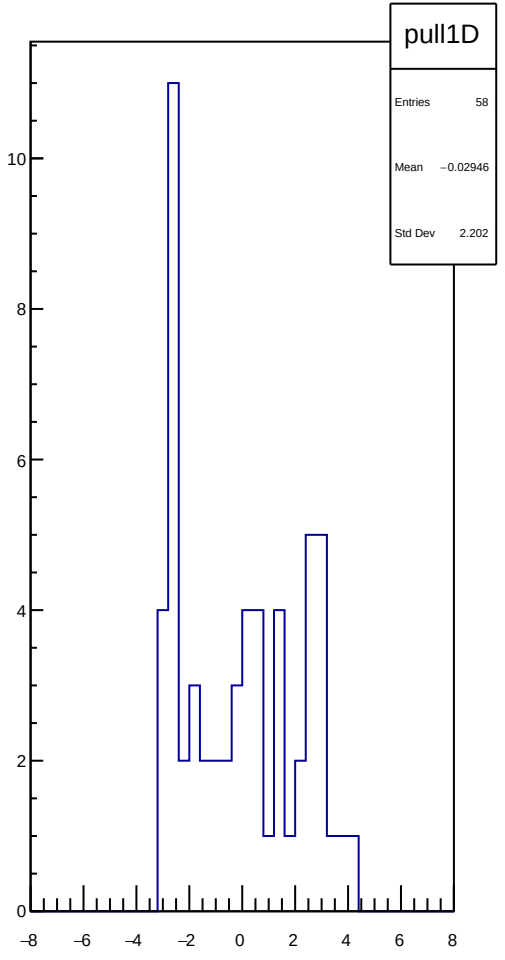

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 164.9 / 57
p0 −5.803 ± 0.1459
pull
Entries 58
Mean −107.5
Std Dev 131.5

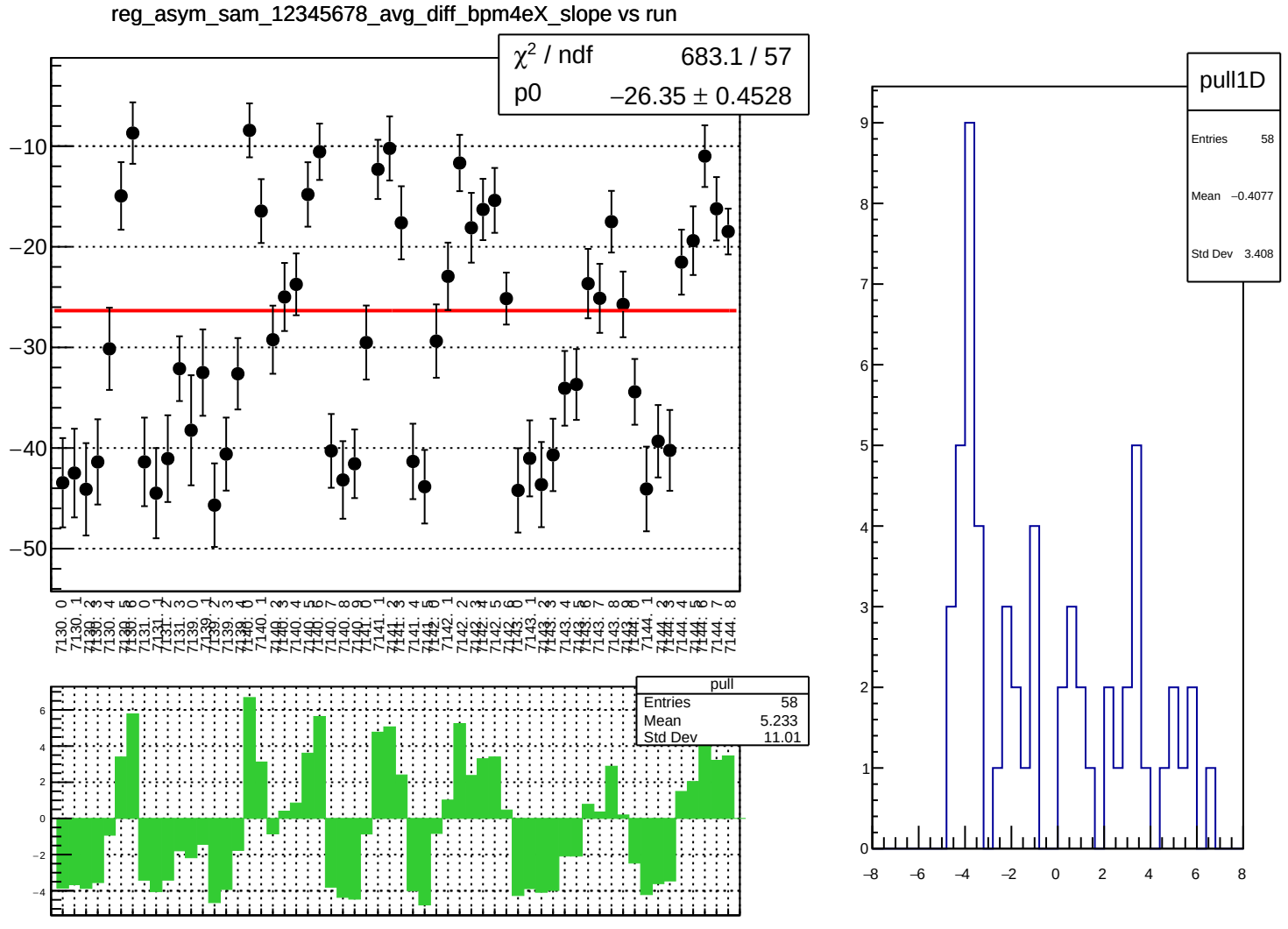

pull1D
Entries 58
Mean −0.04562
Std Dev 1.686

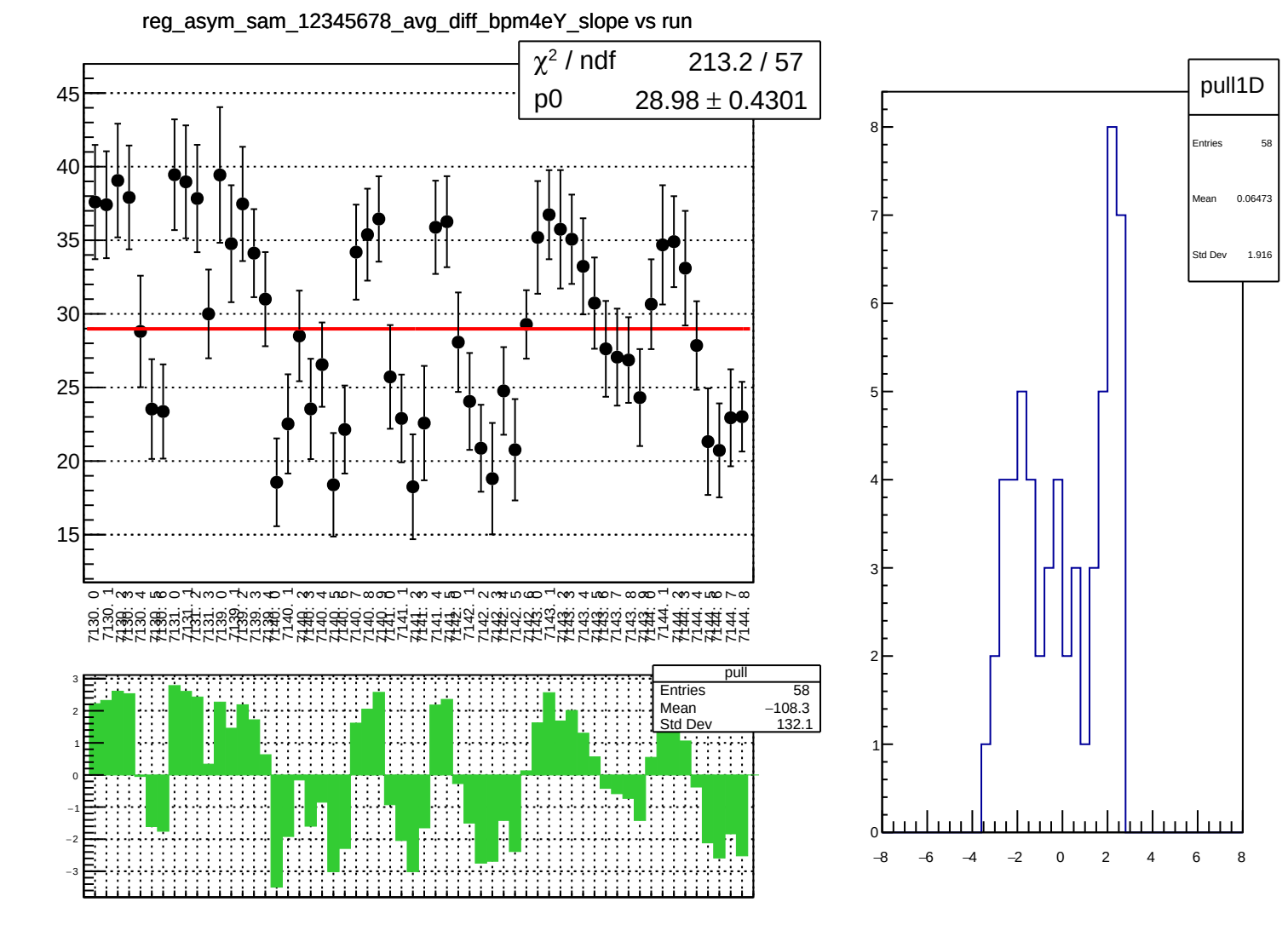

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 10.07 / 57
p0 −0.03274 ± 0.006763
0.05
0
−0.05
−0.1
−0.15
pull
Entries 58
Mean 5505
Std Dev 5479
pull1D
Entries 58
Mean −0.0007921
Std Dev 0.4167

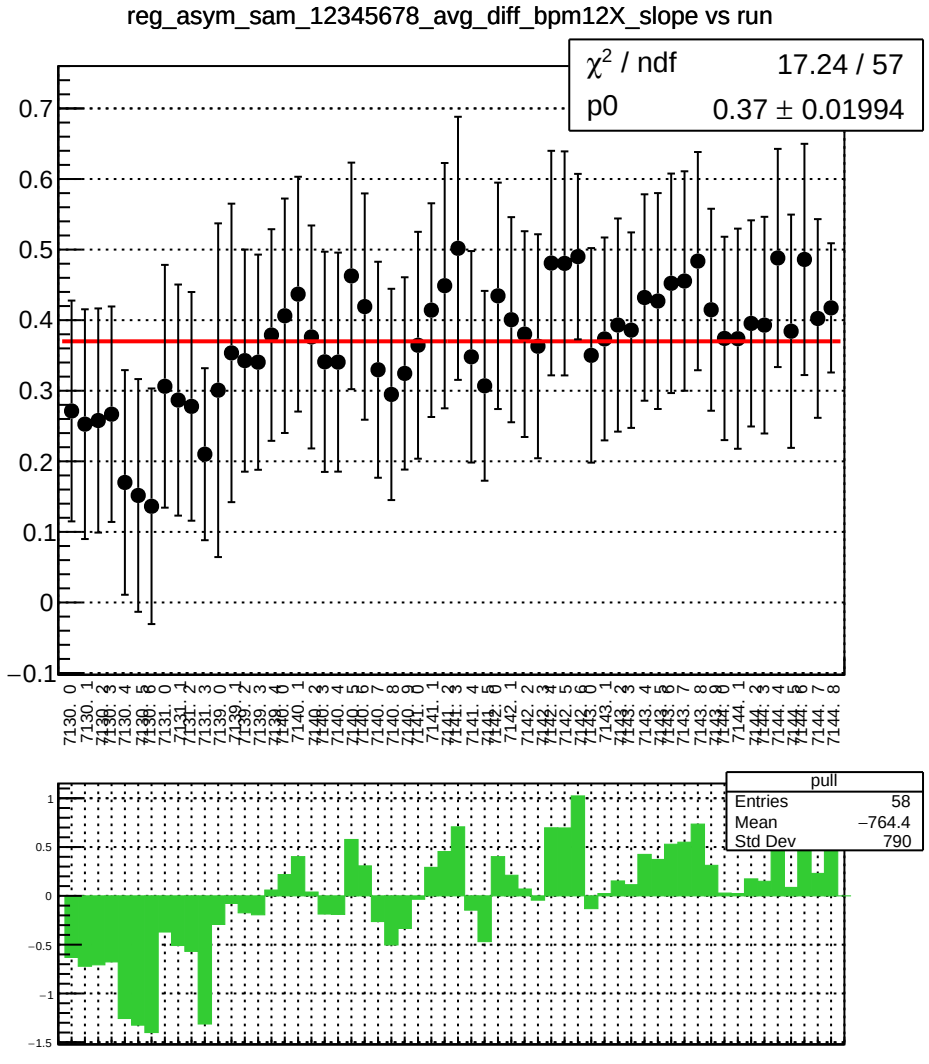

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 821.8 / 57
p0 −21.99 ± 0.4445
pull
Entries 58
Mean 11.02
Std Dev 10.91
pull1D
Entries 58
Mean 0.3943
Std Dev 3.744

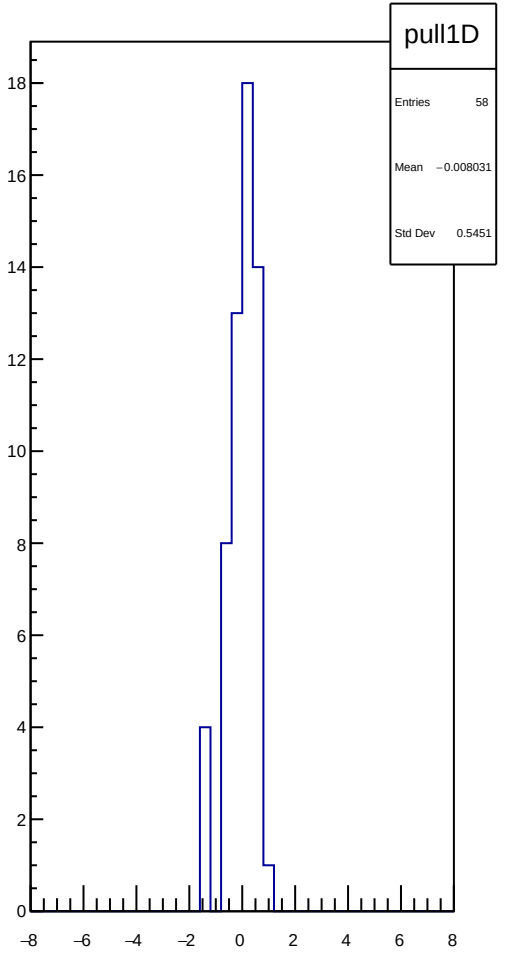

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 281.4 / 57
p0 5.96 ± 0.4014
pull
Entries 58
Mean −240.3
Std Dev 265

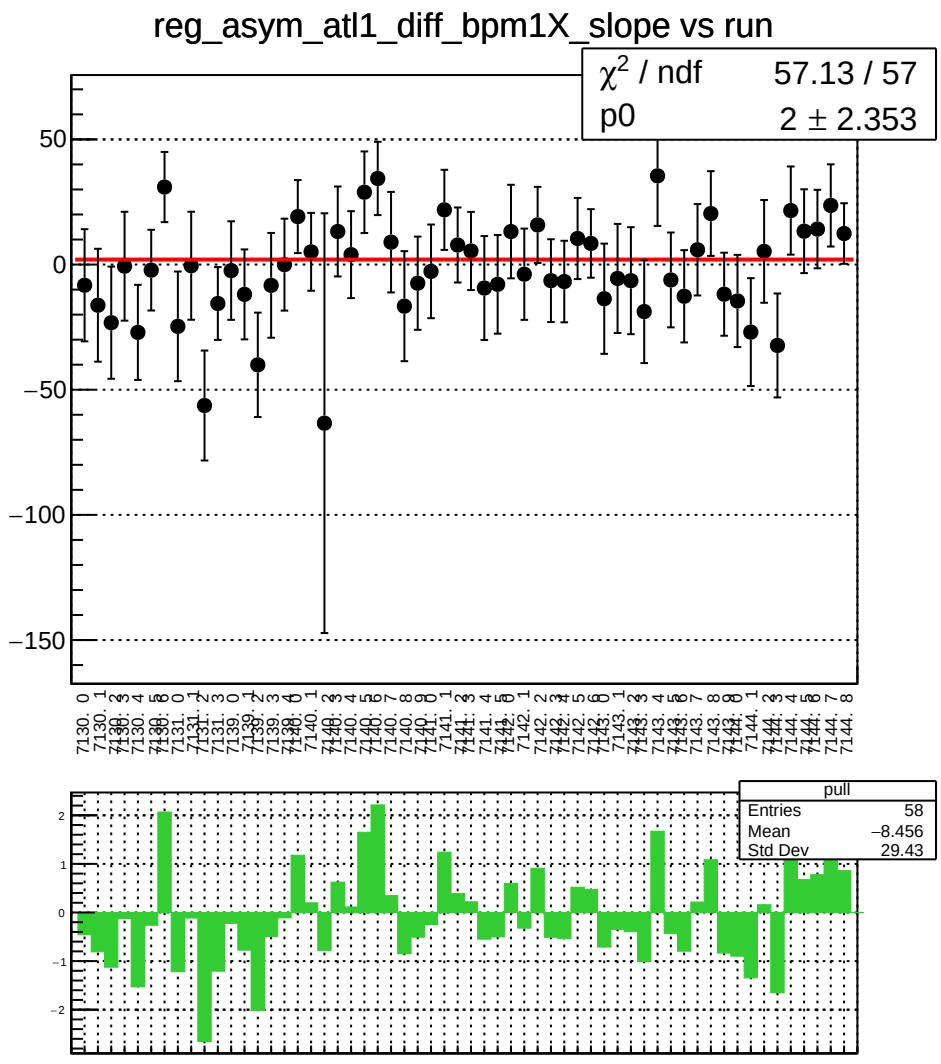

pull1D
Entries 58
Mean −0.02946
Std Dev 2.202

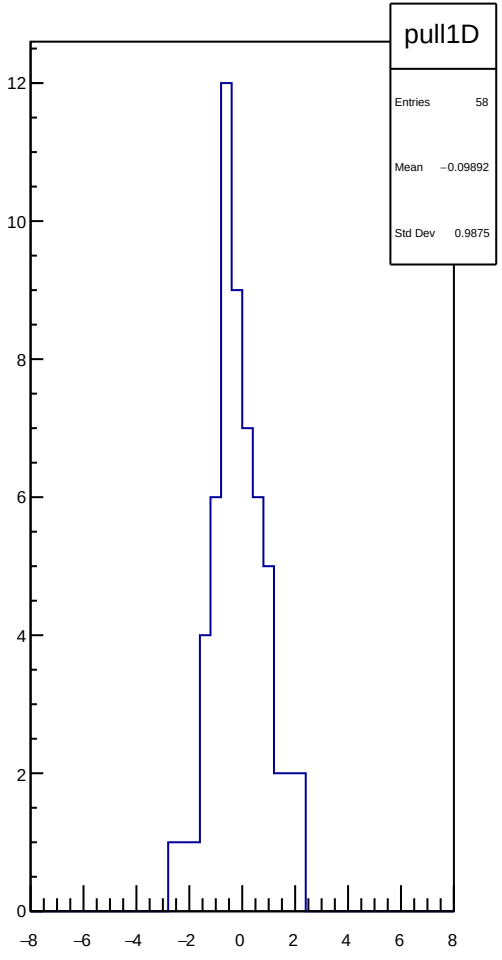

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 683.1 / 57
p0 −26.35 ± 0.4528
pull
Entries 58
Mean 5.233
Std Dev 11.01
pull1D
Entries 58
Mean −0.4077
Std Dev 3.408

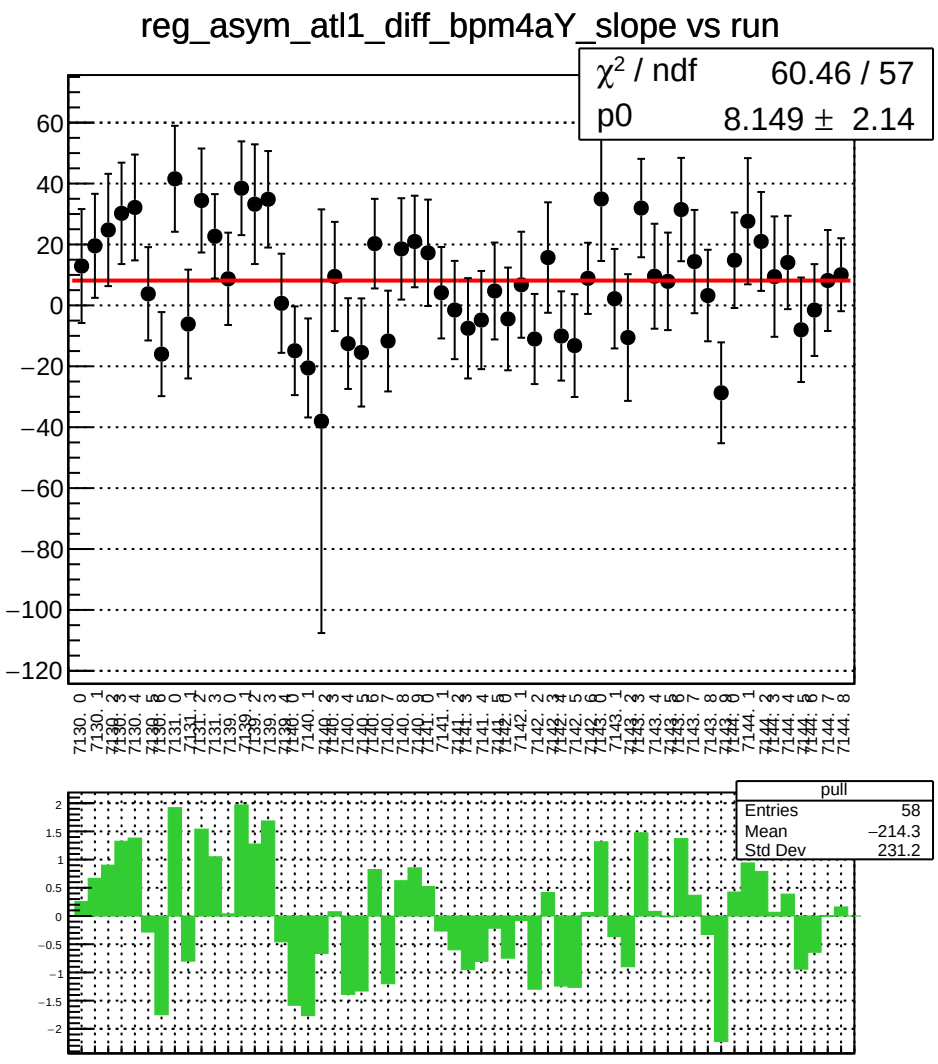

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 213.2 / 57
p0 28.98 ± 0.4301
pull
Entries 58
Mean −108.3
Std Dev 132.1
pull1D
Entries 58
Mean 0.06473
Std Dev 1.916

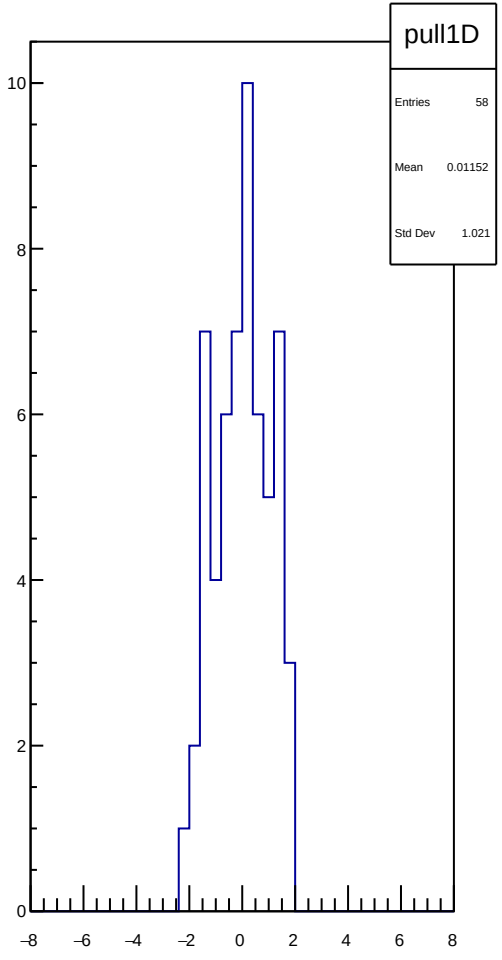

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 17.24 / 57
p0 0.37 ± 0.01994
pull
Entries 58
Mean −764.4
Std Dev 790

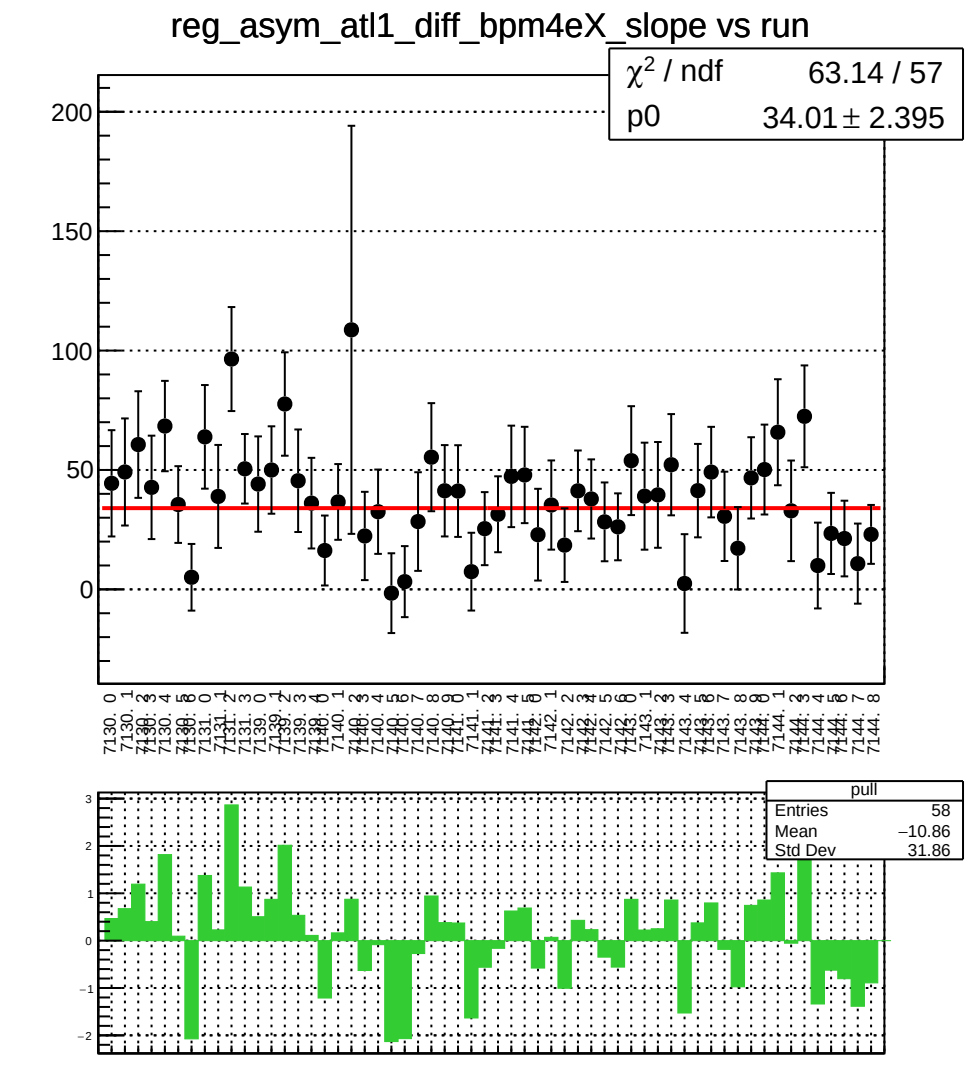

pull1D
Entries 58
Mean −0.008031
Std Dev 0.5451

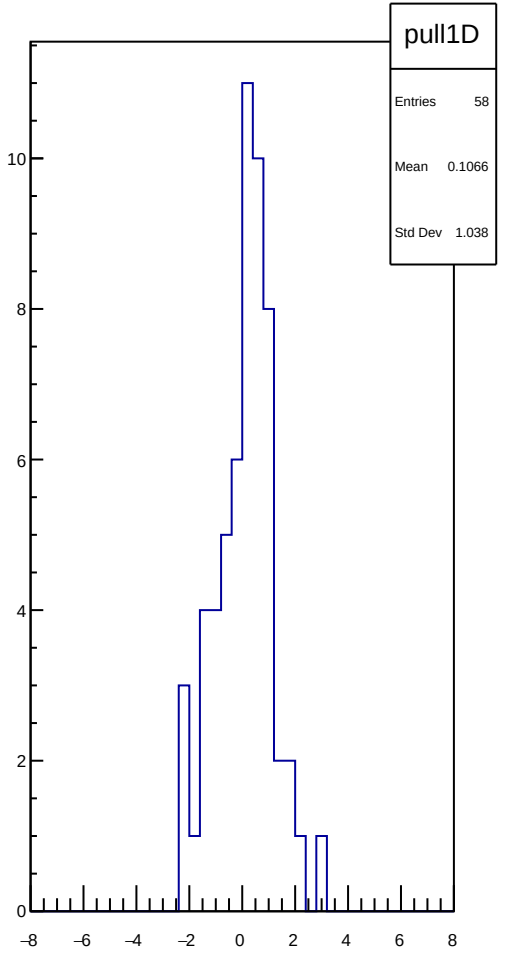

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 57.13 / 57
p0 2 ± 2.353
pull
Entries 58
Mean −8.456
Std Dev 29.43

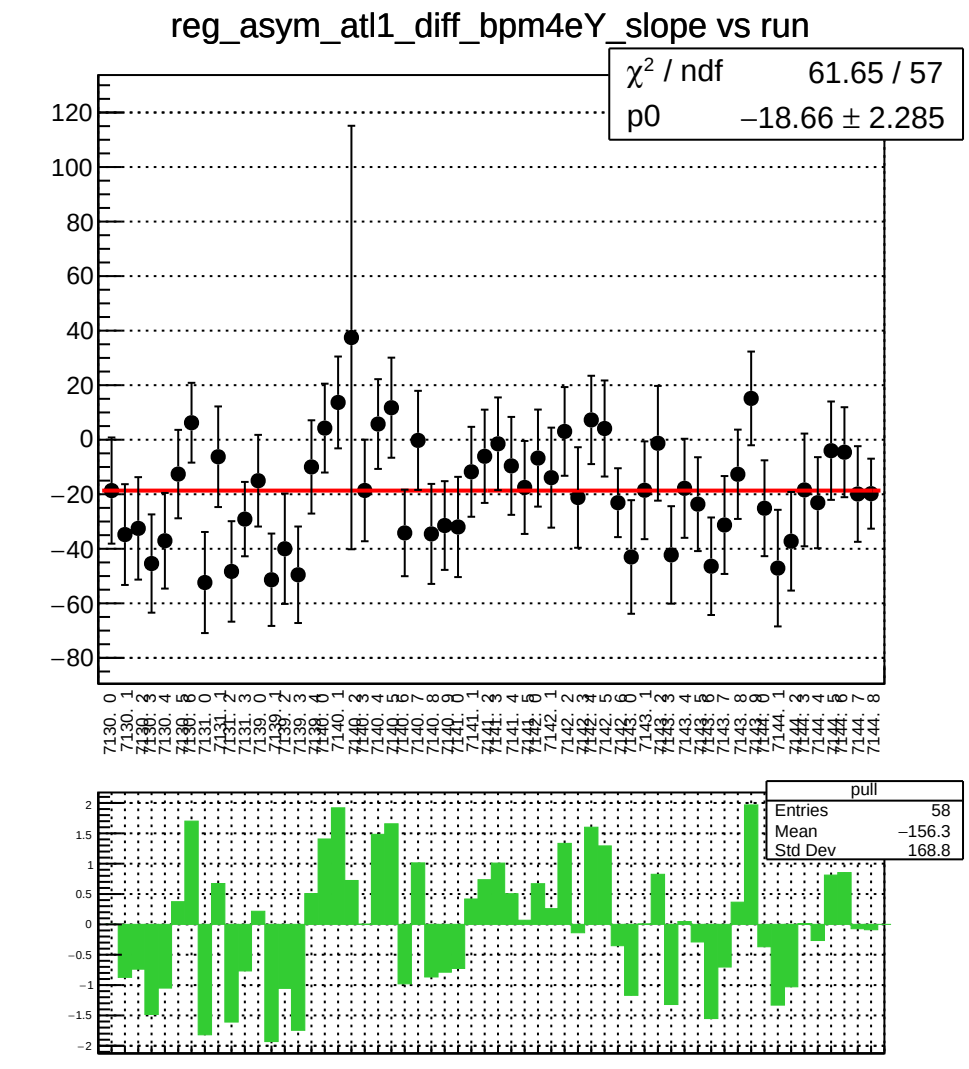

pull1D
Entries 58
Mean −0.09892
Std Dev 0.9875

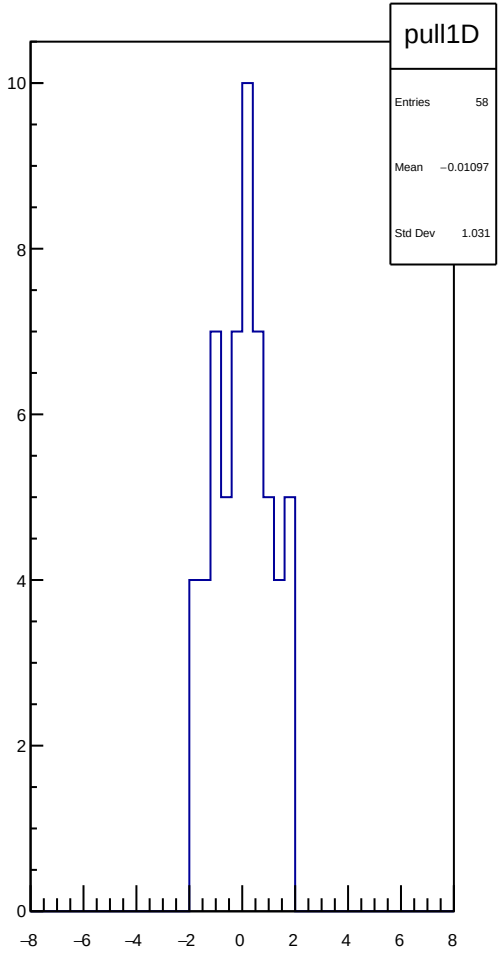

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 60.46 / 57
p0 8.149 ± 2.14
pull
Entries 58
Mean −214.3
Std Dev 231.2

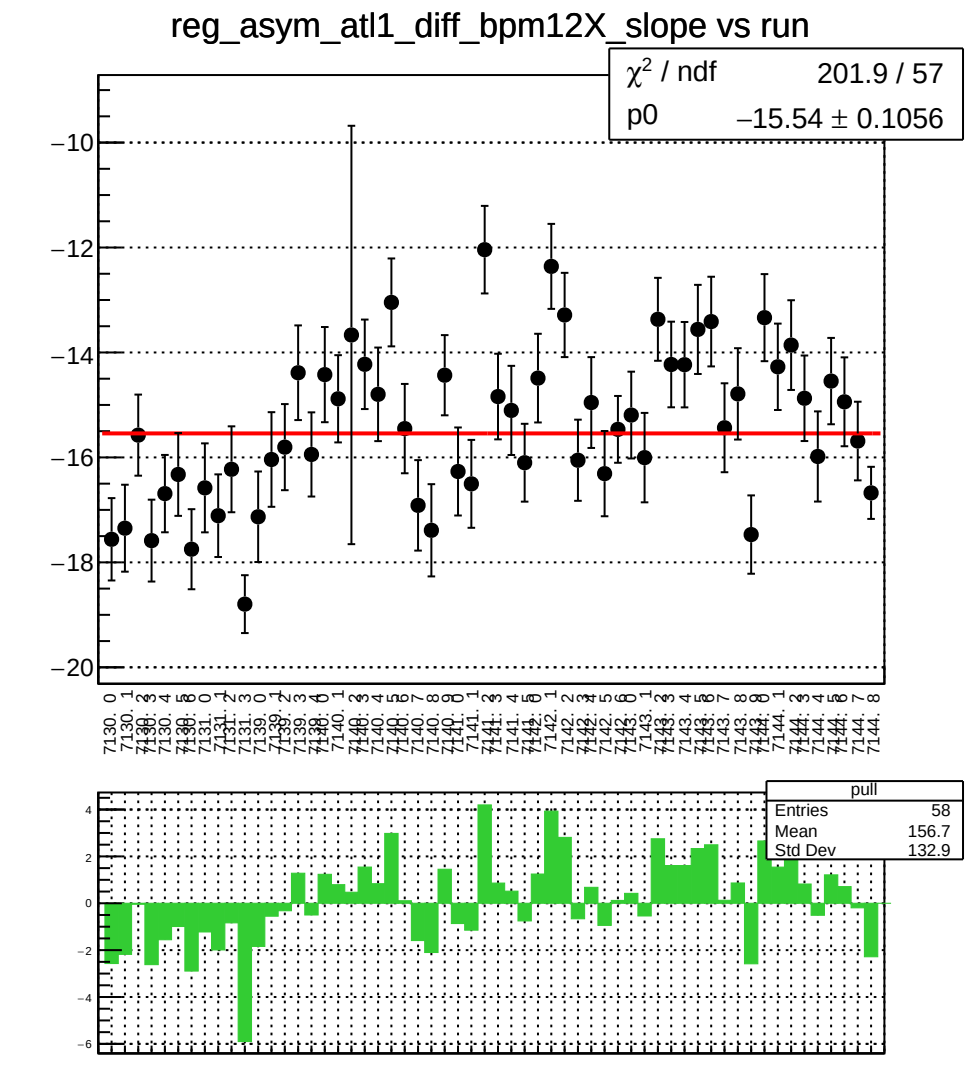

pull1D
Entries 58
Mean 0.01152
Std Dev 1.021

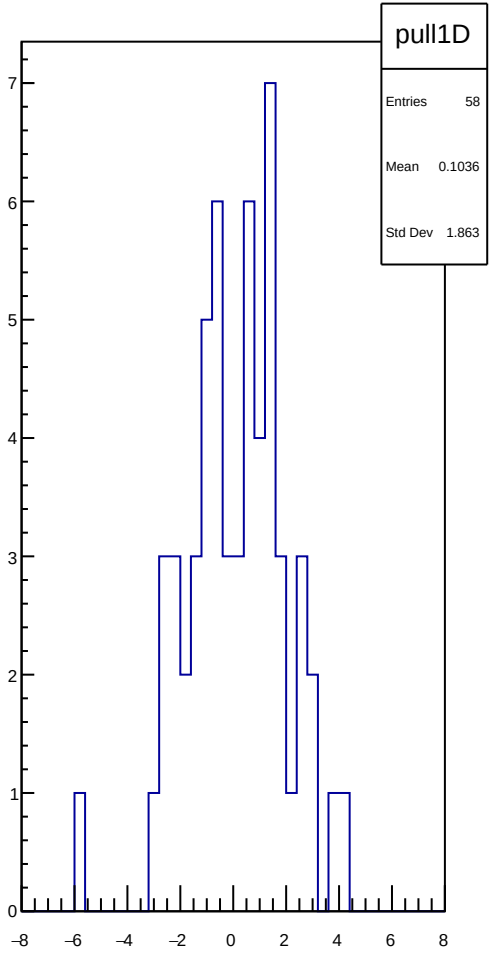

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 63.14 / 57
p0 34.01 ± 2.395
200
150
100
50
0
pull
Entries 58
Mean −10.86
Std Dev 31.86
3
2
1
0
−1
−2

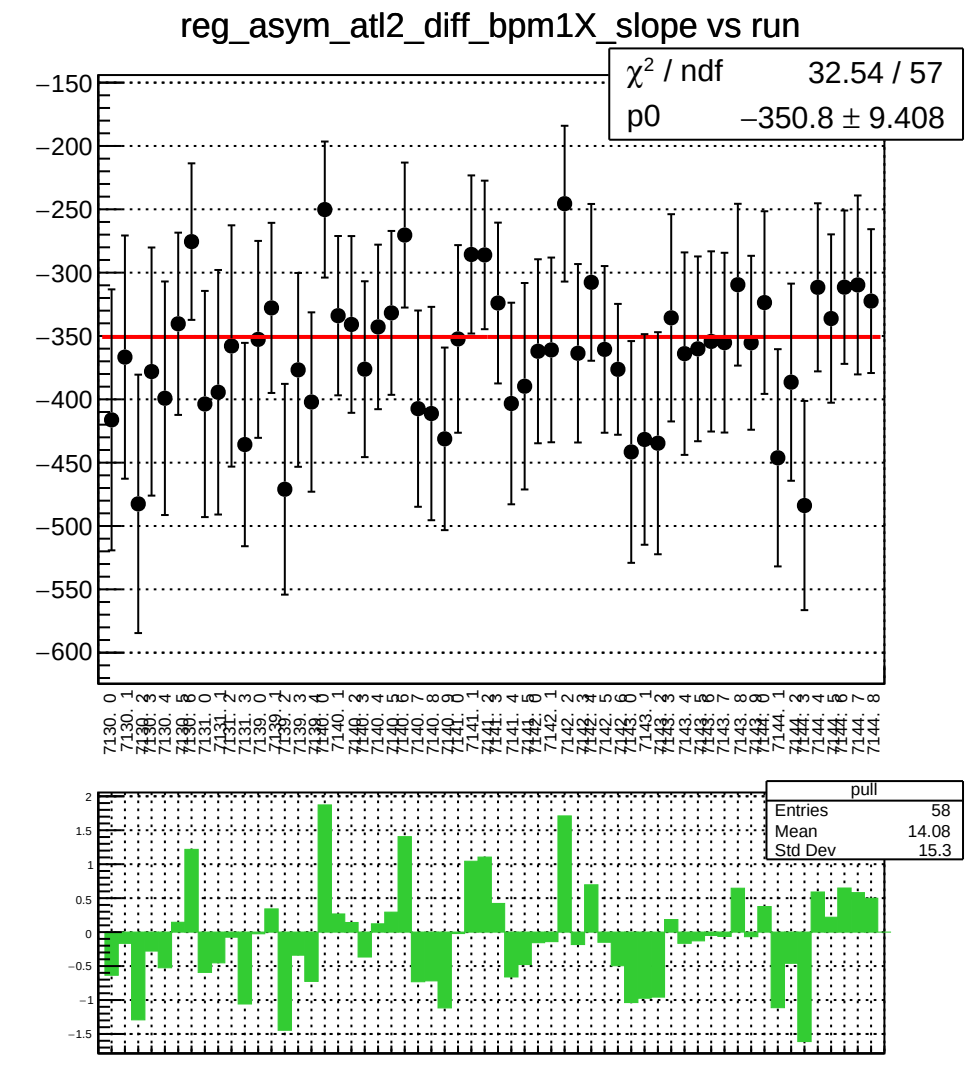

pull1D
Entries 58
Mean 0.1066
Std Dev 1.038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

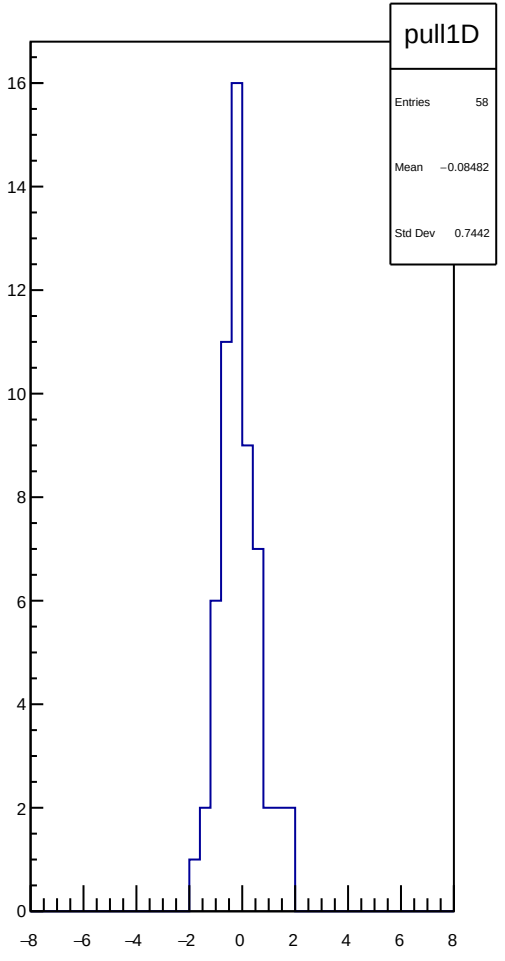

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 61.65 / 57
p0 −18.66 ± 2.285
pull
Entries 58
Mean −156.3
Std Dev 168.8

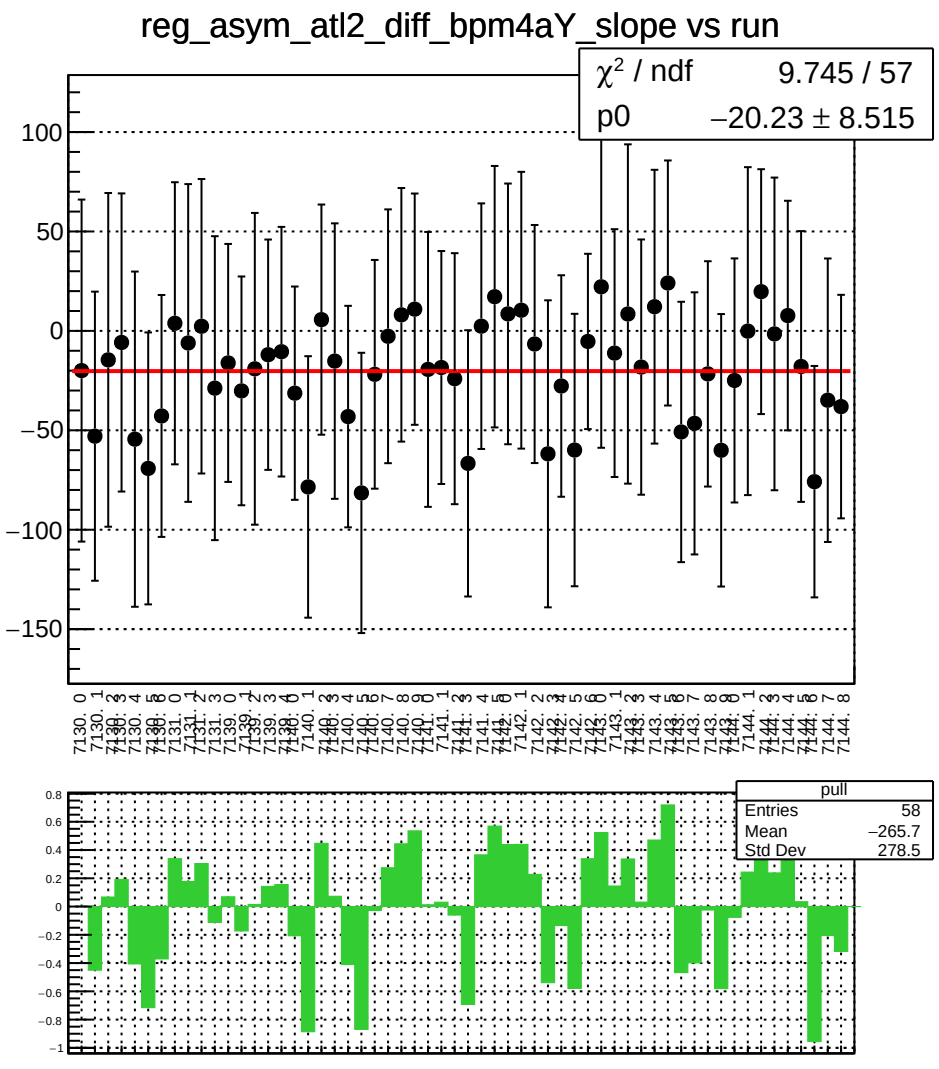

pull1D
Entries 58
Mean −0.01097
Std Dev 1.031

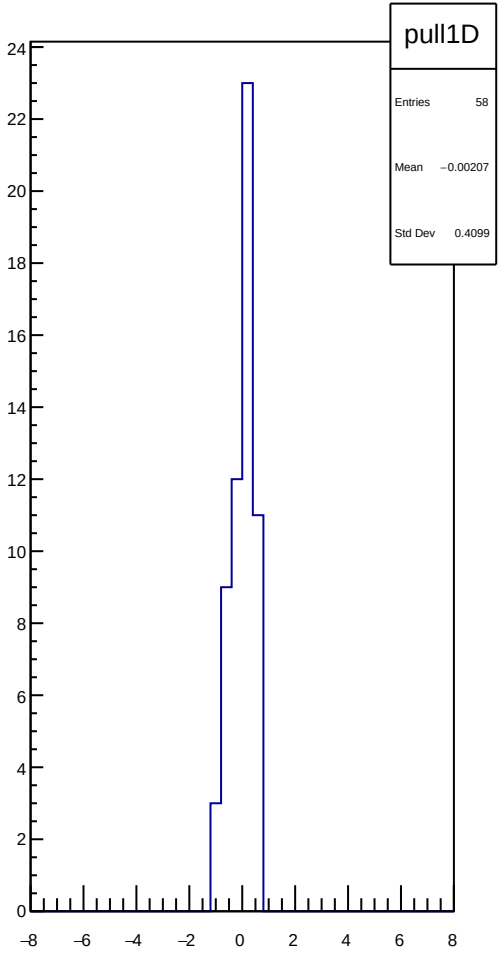

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 201.9 / 57
p0 −15.54 ± 0.1056
pull
Entries 58
Mean 156.7
Std Dev 132.9

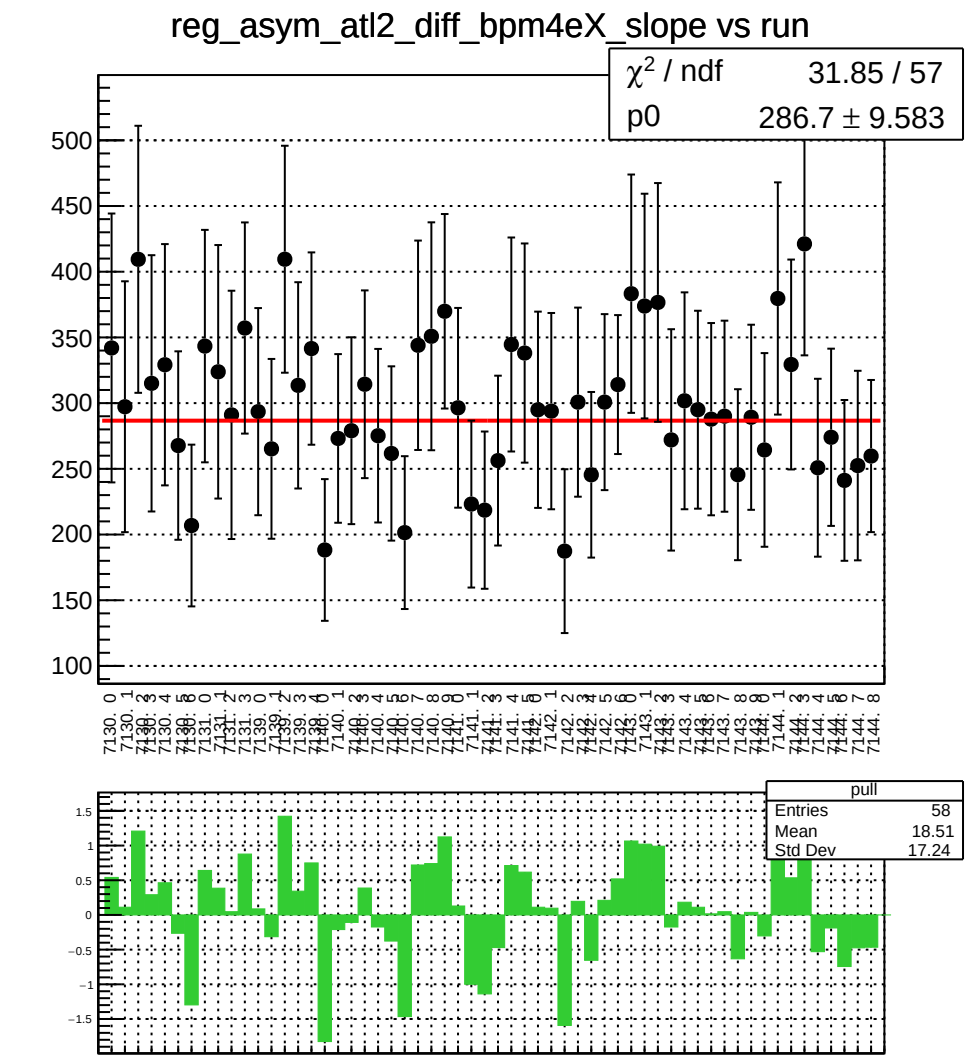

pull1D
Entries 58
Mean 0.1036
Std Dev 1.863

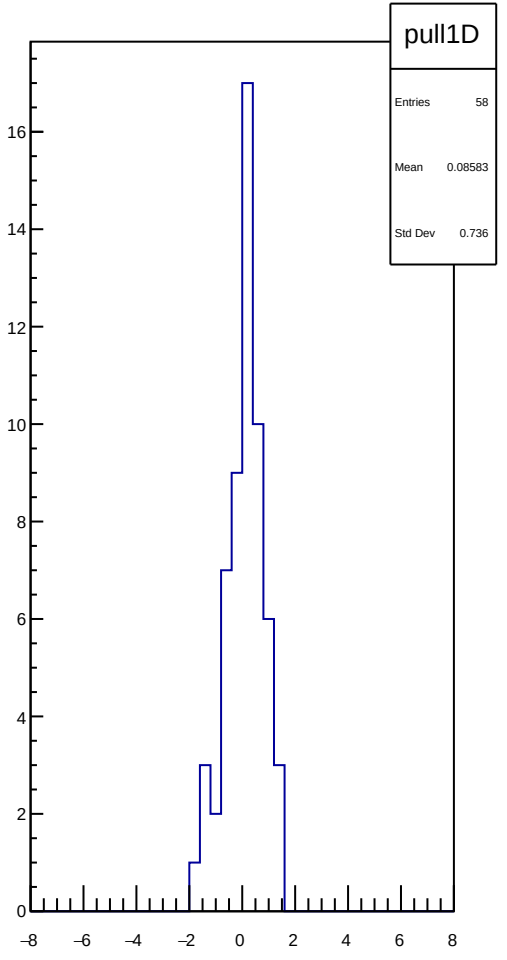

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 32.54 / 57
p0 −350.8 ± 9.408
pull
Entries 58
Mean 14.08
Std Dev 15.3

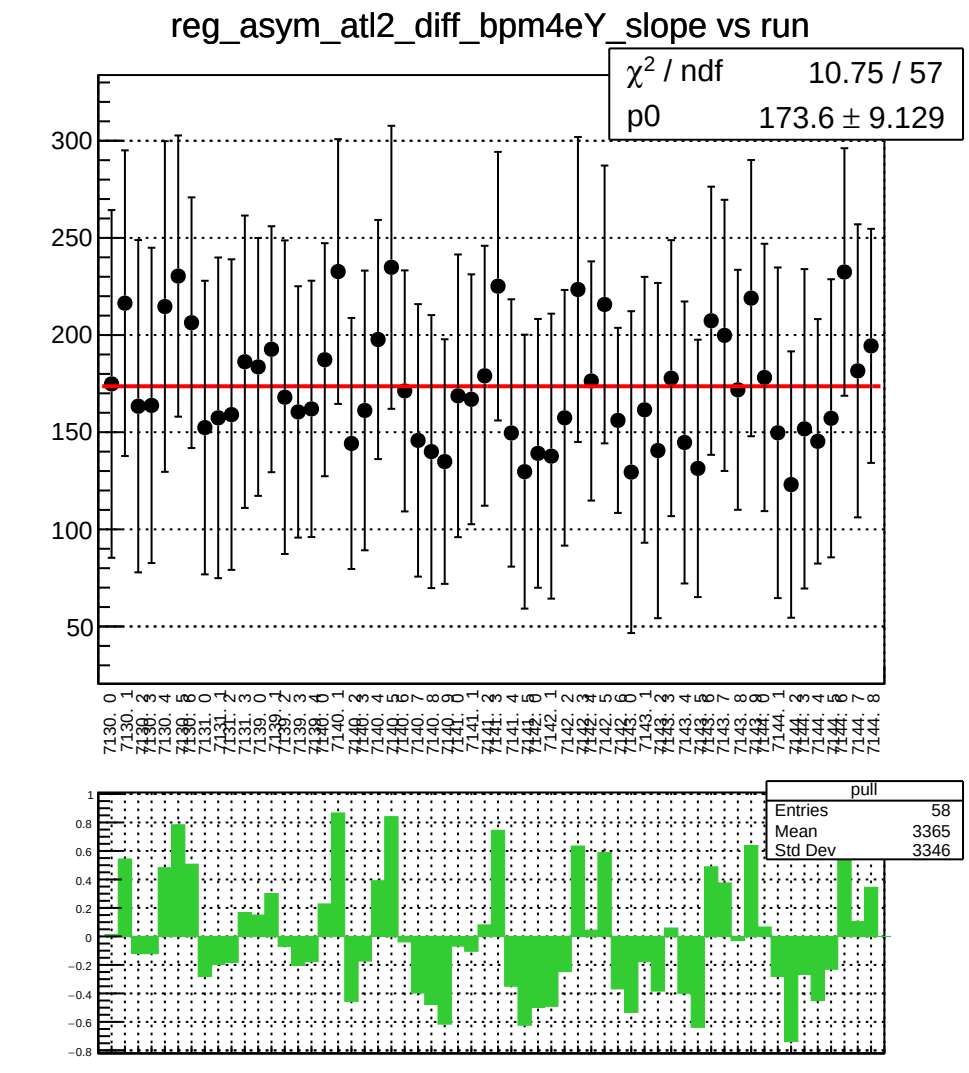

pull1D
Entries 58
Mean −0.08482
Std Dev 0.7442

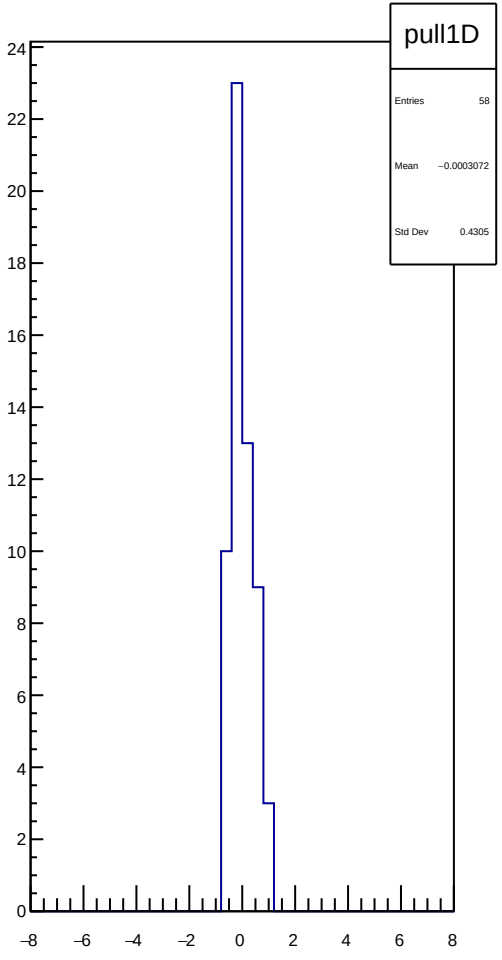

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 9.745 / 57
p0 −20.23 ± 8.515
pull
Entries 58
Mean −265.7
Std Dev 278.5

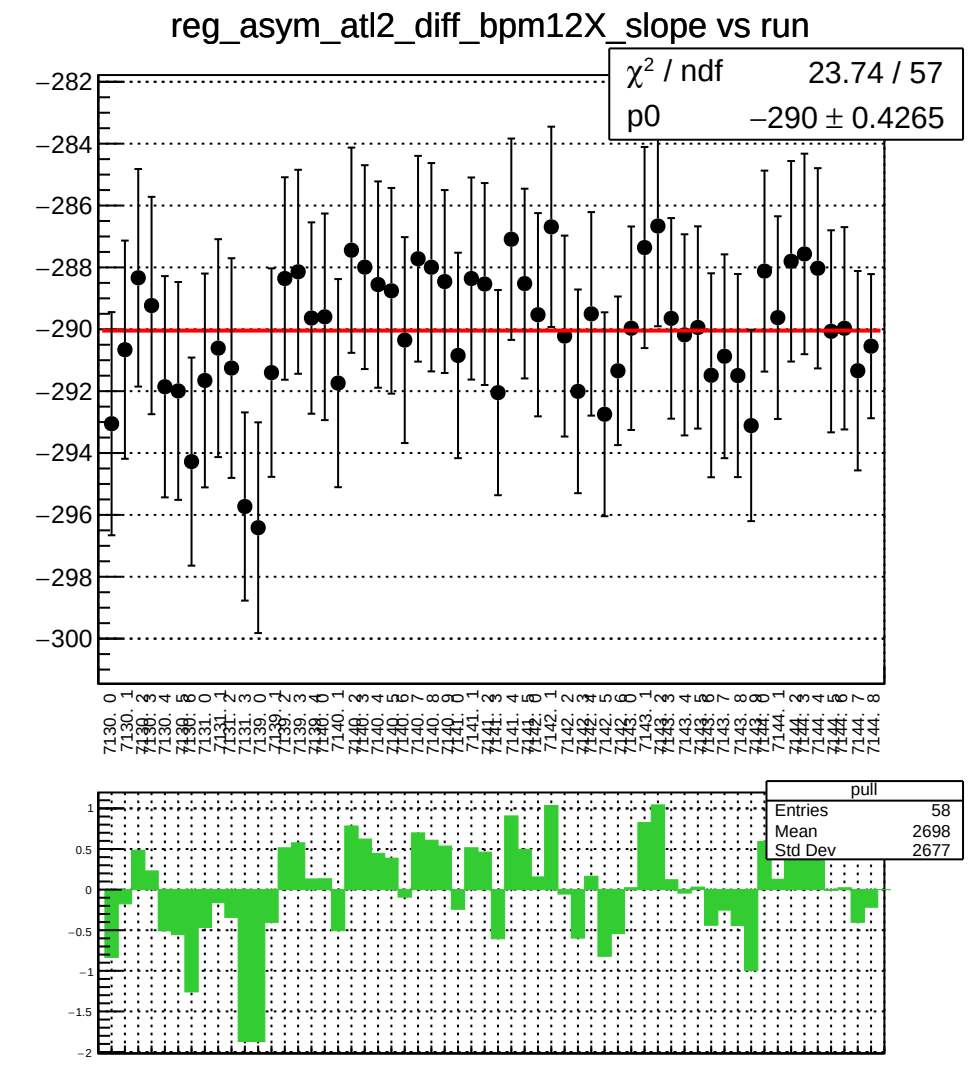

pull1D
Entries 58
Mean −0.00207
Std Dev 0.4099

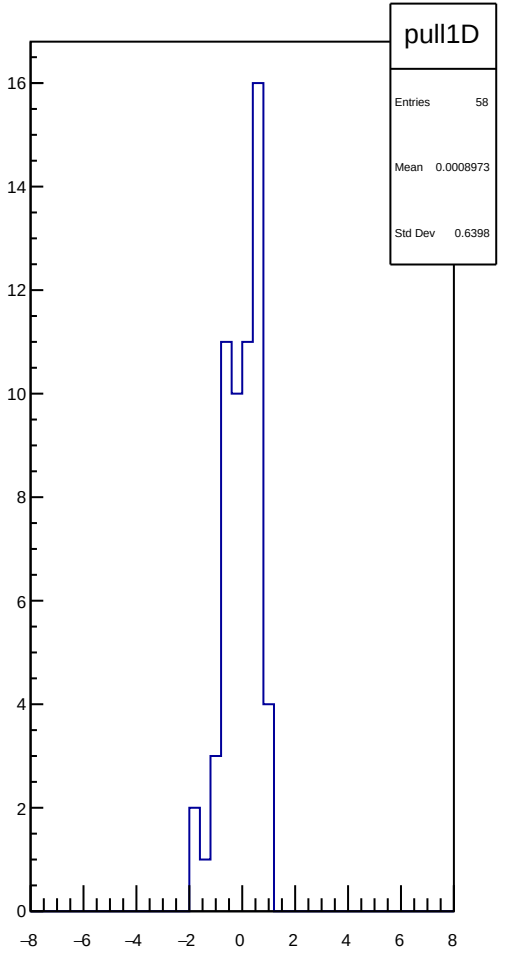

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 31.85 / 57
p0 286.7 ± 9.583
pull
Entries 58
Mean 18.51
Std Dev 17.24

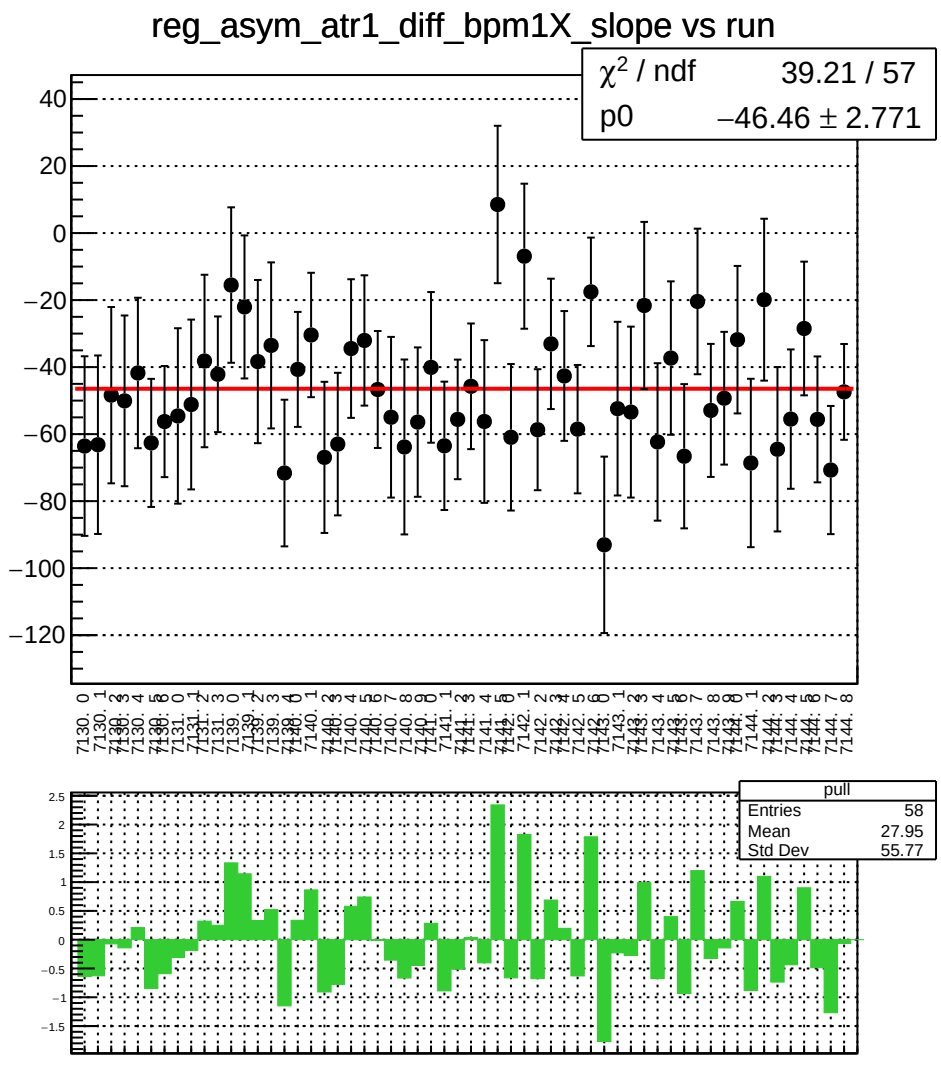

pull1D
Entries 58
Mean 0.08583
Std Dev 0.736

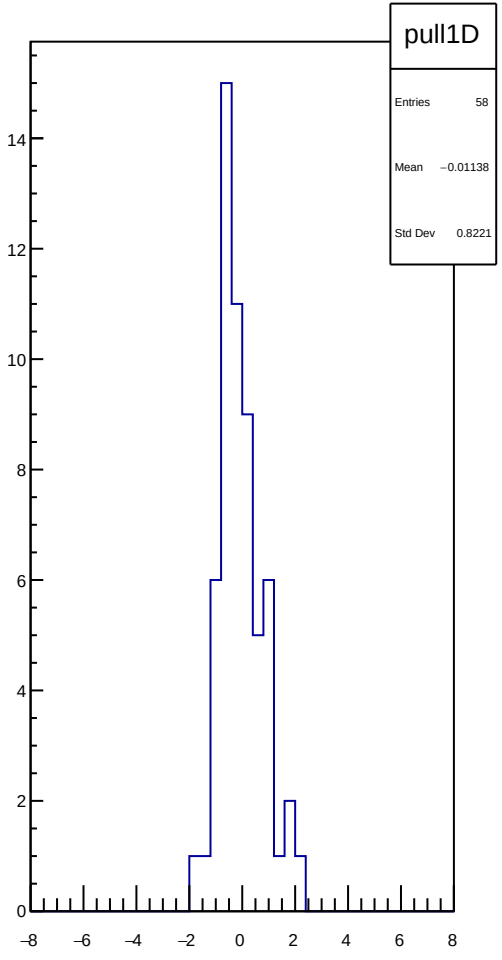

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 10.75 / 57
p0 173.6 ± 9.129
pull
Entries 58
Mean 3365
Std Dev 3346

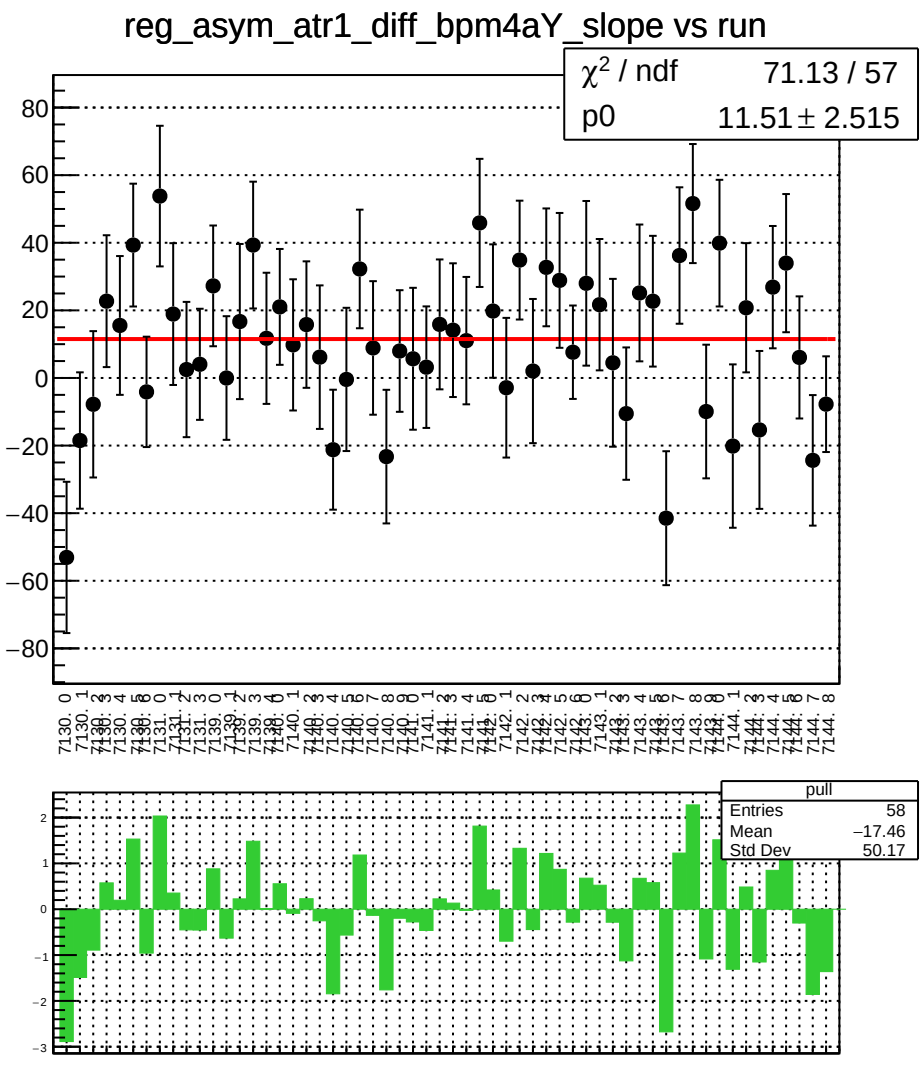

pull1D
Entries 58
Mean −0.0003072
Std Dev 0.4305

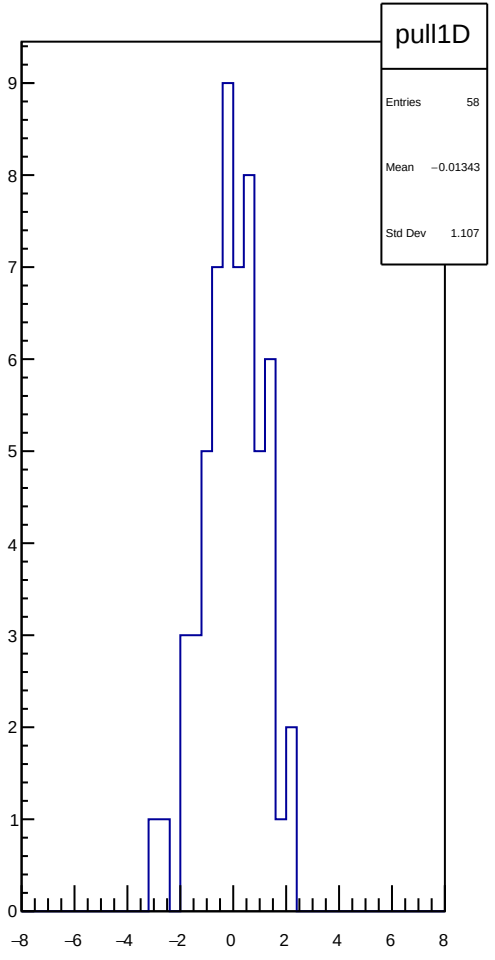

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 23.74 / 57
p0 −290 ± 0.4265
pull
Entries 58
Mean 2698
Std Dev 2677

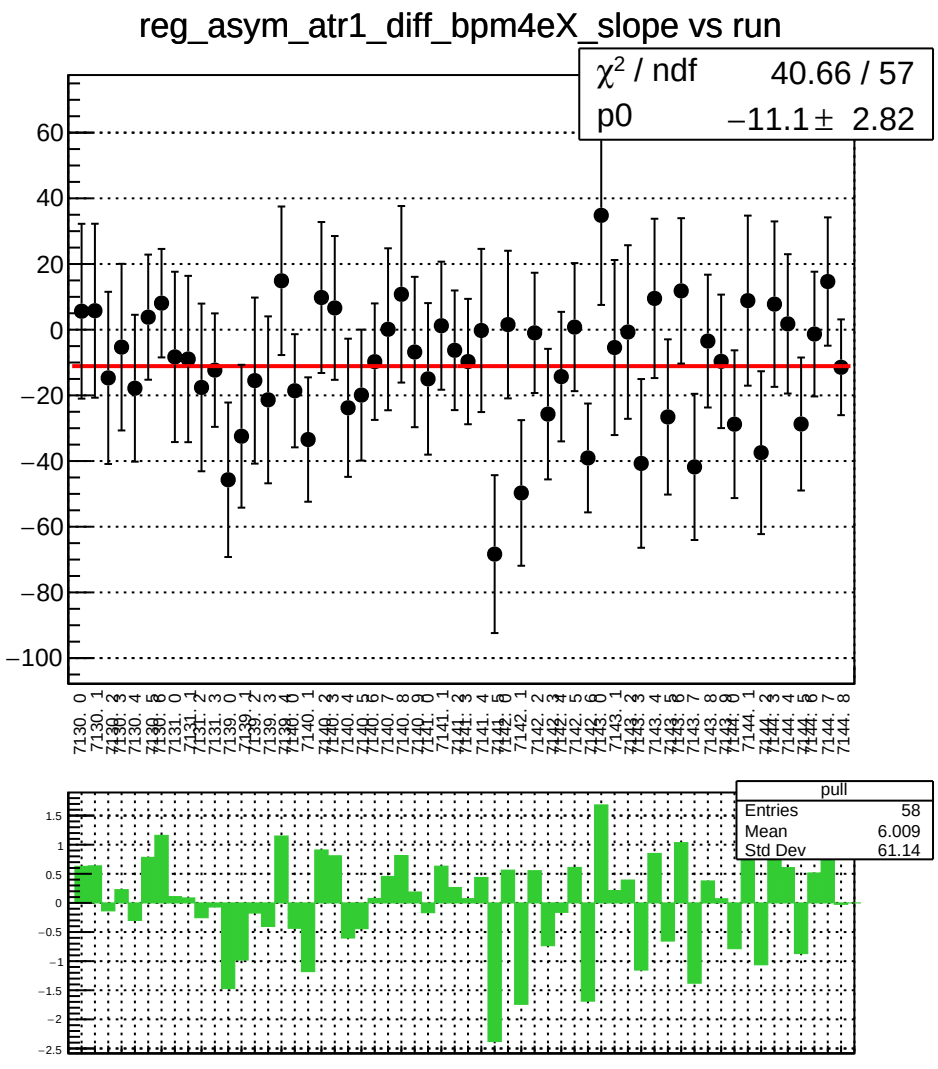

pull1D
Entries 58
Mean 0.0008973
Std Dev 0.6398

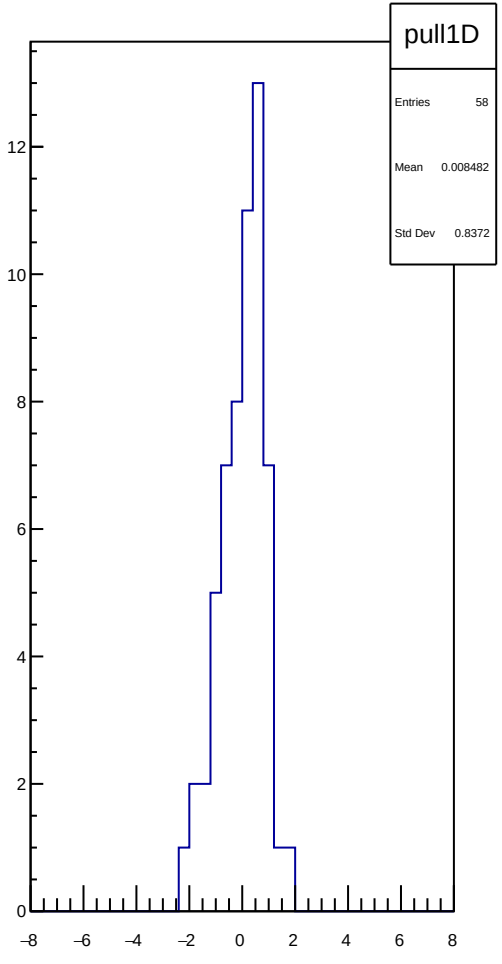

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 39.21 / 57
p0 −46.46 ± 2.771
pull
Entries 58
Mean 27.95
Std Dev 55.77

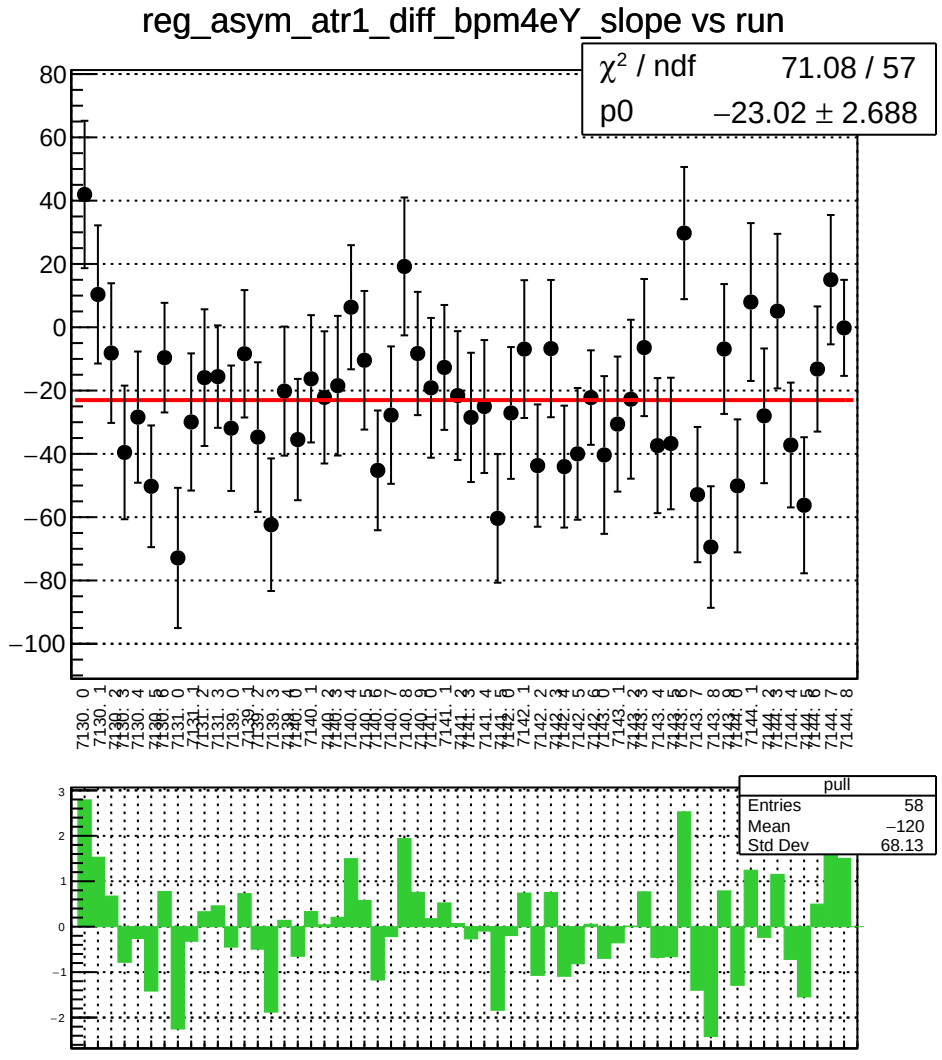

pull1D
Entries 58
Mean −0.01138
Std Dev 0.8221

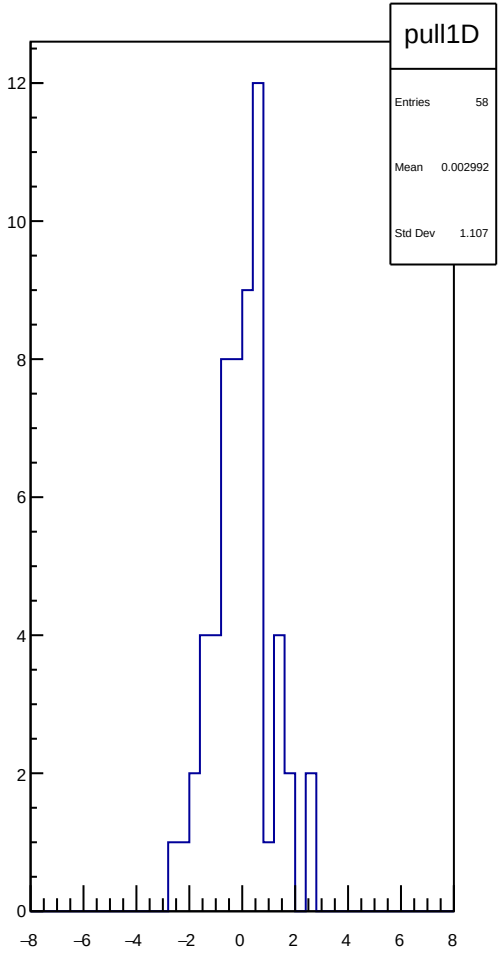

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 71.13 / 57
p0 11.51 ± 2.515
pull
Entries 58
Mean −17.46
Std Dev 50.17

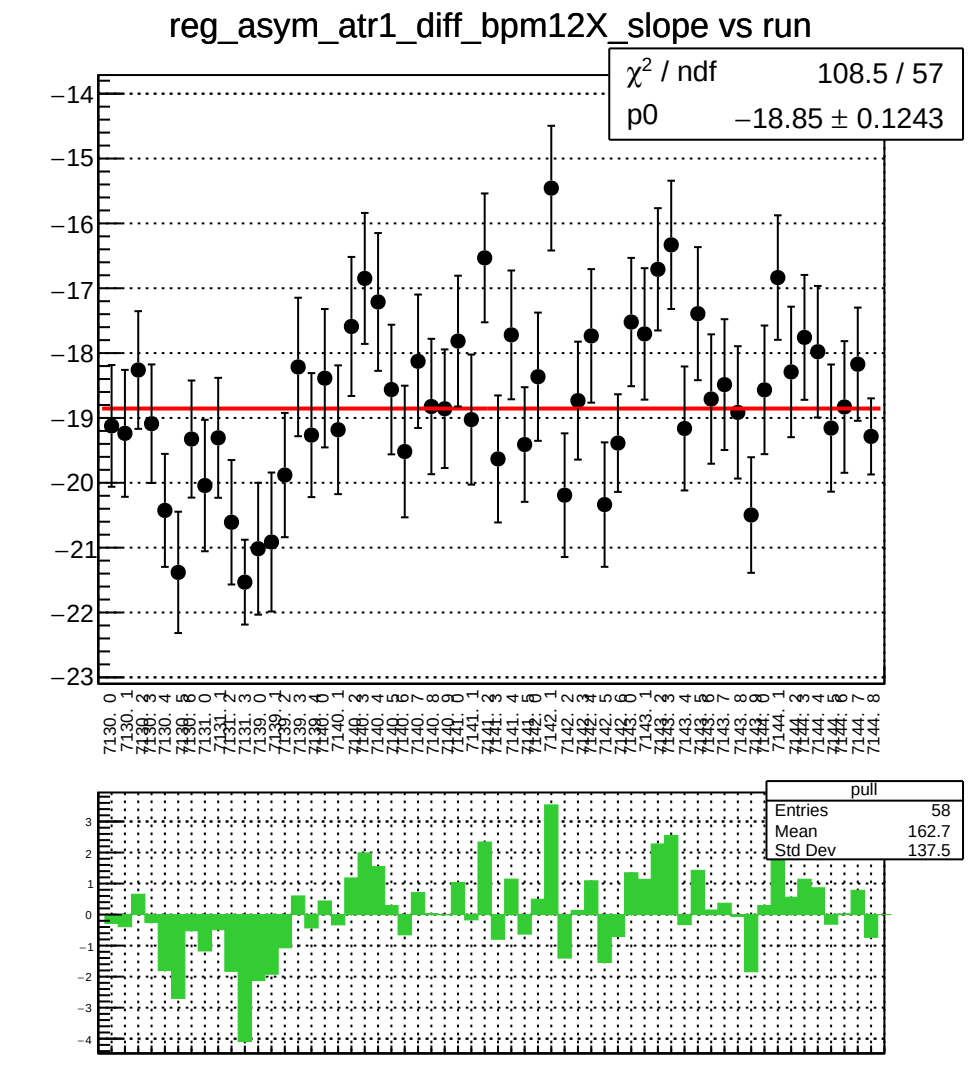

pull1D
Entries 58
Mean −0.01343
Std Dev 1.107

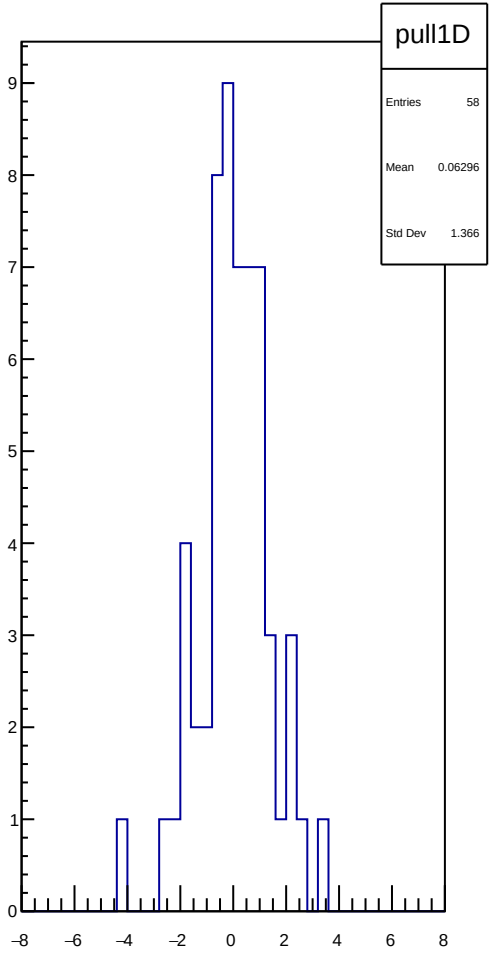

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 40.66 / 57
p0 −11.1 ± 2.82
pull
Entries 58
Mean 6.009
Std Dev 61.14

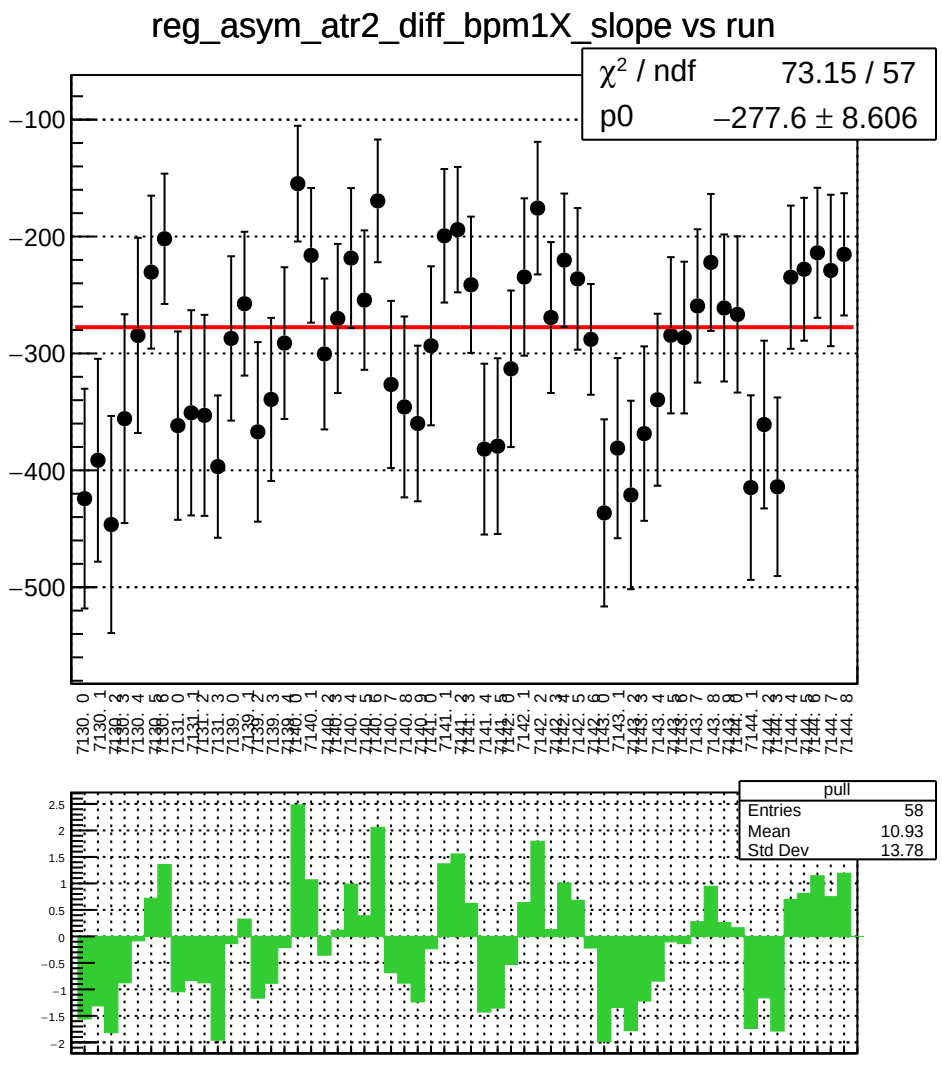

pull1D
Entries 58
Mean 0.008482
Std Dev 0.8372

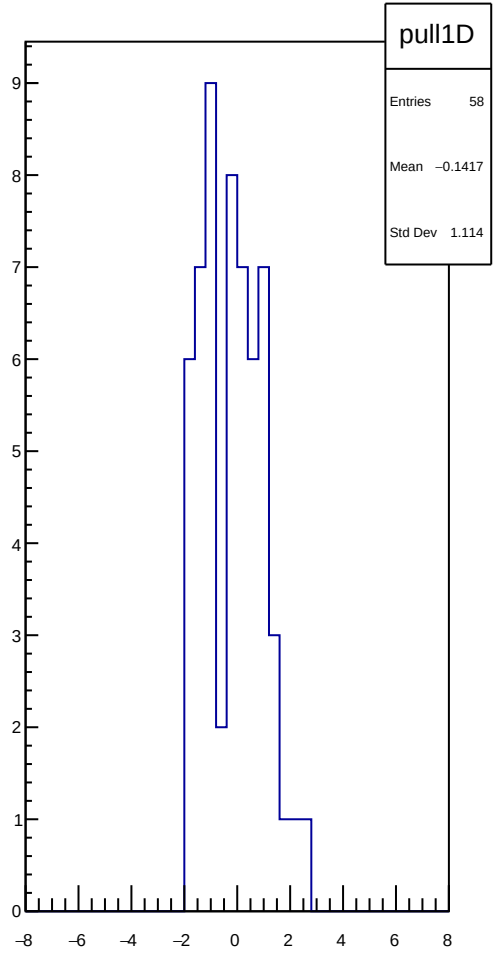

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 71.08 / 57
p0 −23.02 ± 2.688
pull
Entries 58
Mean −120
Std Dev 68.13

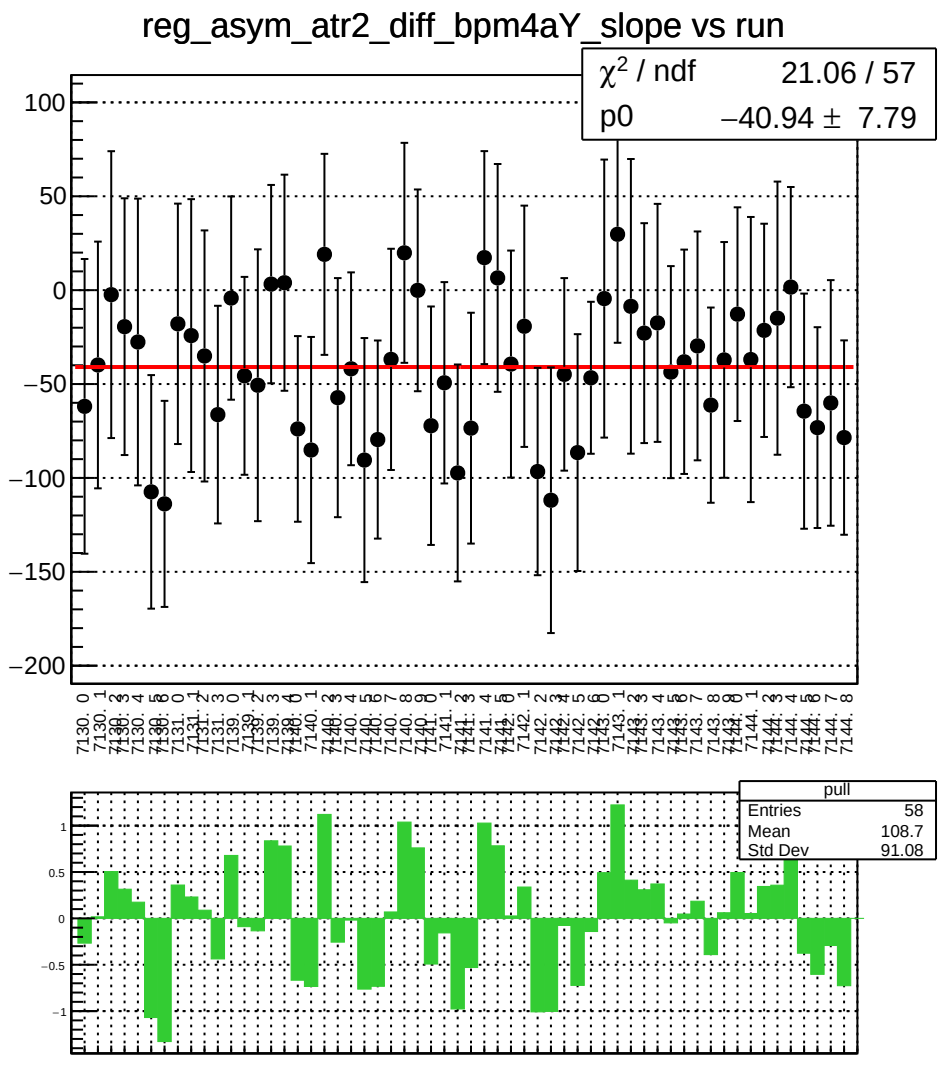

pull1D
Entries 58
Mean 0.002992
Std Dev 1.107

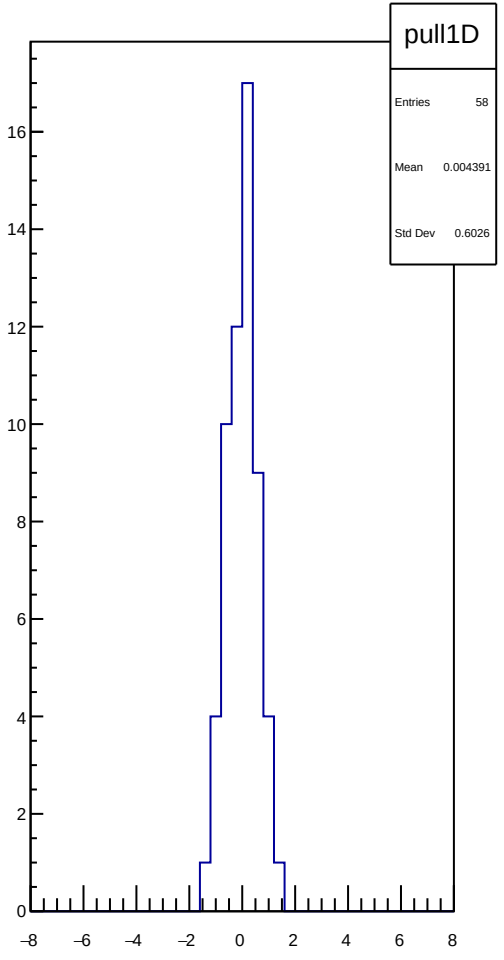

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 108.5 / 57
p0 −18.85 ± 0.1243
pull
Entries 58
Mean 162.7
Std Dev 137.5

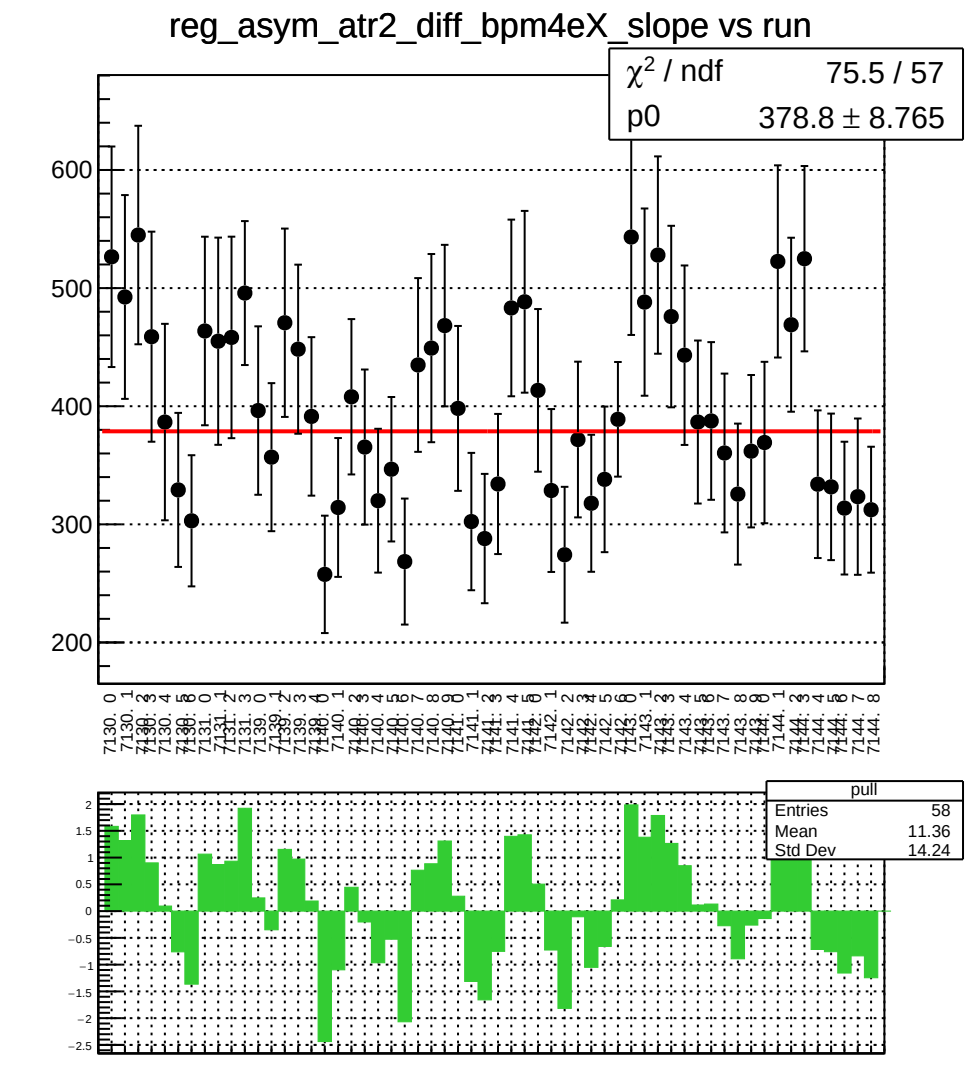

pull1D
Entries 58
Mean 0.06296
Std Dev 1.366

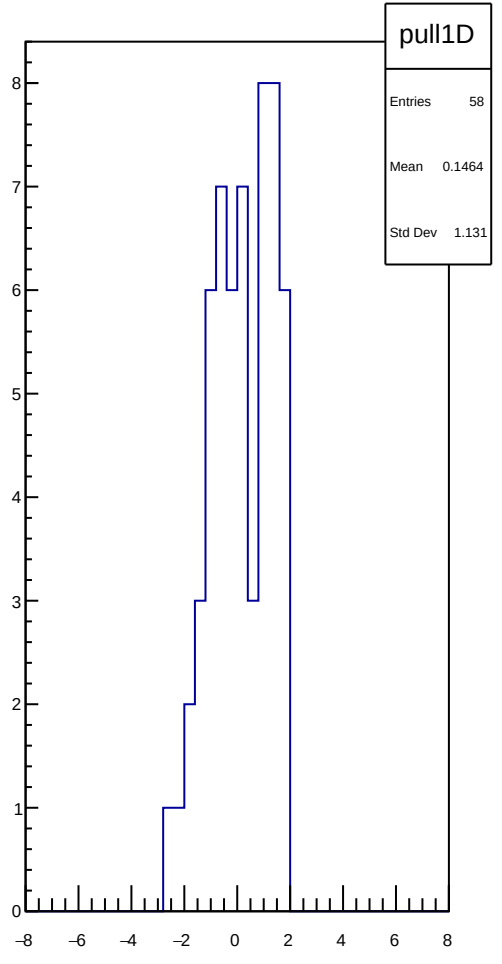

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 73.15 / 57
p0 −277.6 ± 8.606
pull
Entries 58
Mean 10.93
Std Dev 13.78

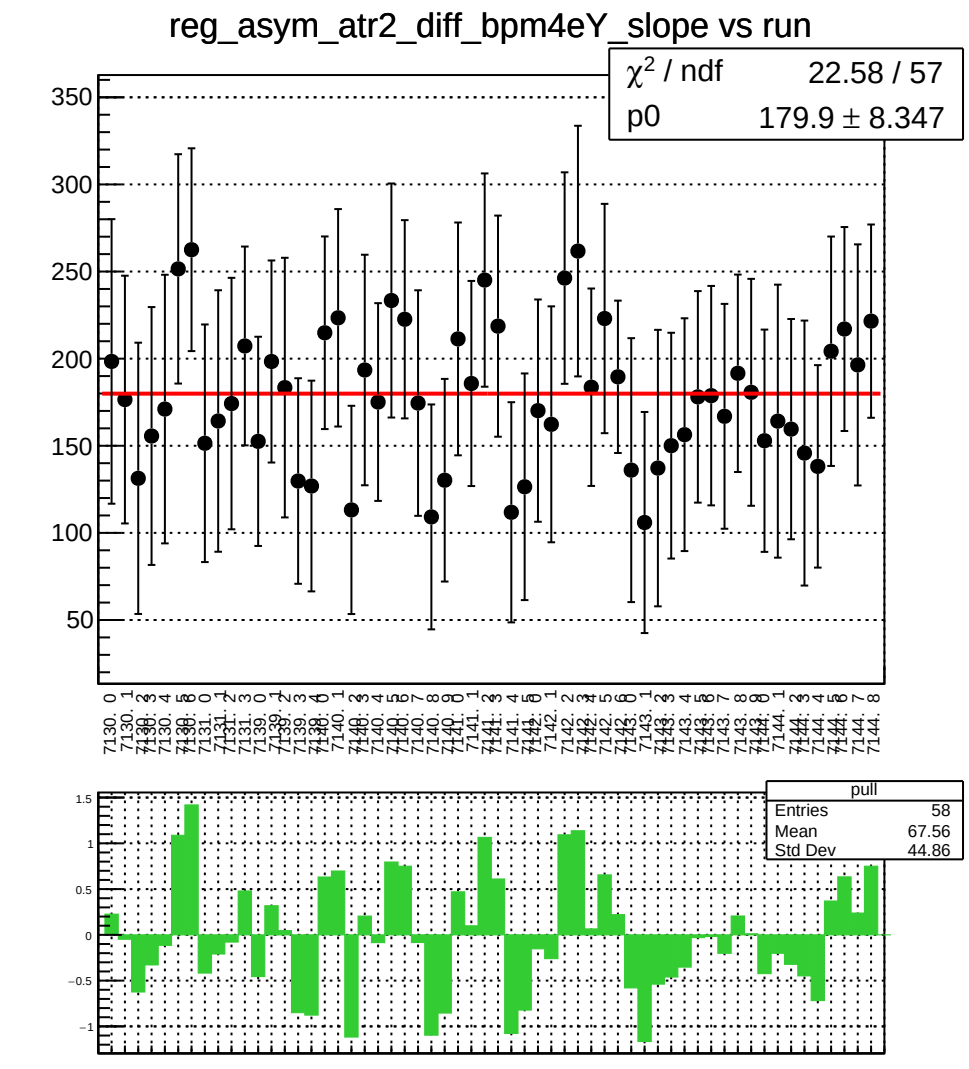

pull1D
Entries 58
Mean −0.1417
Std Dev 1.114

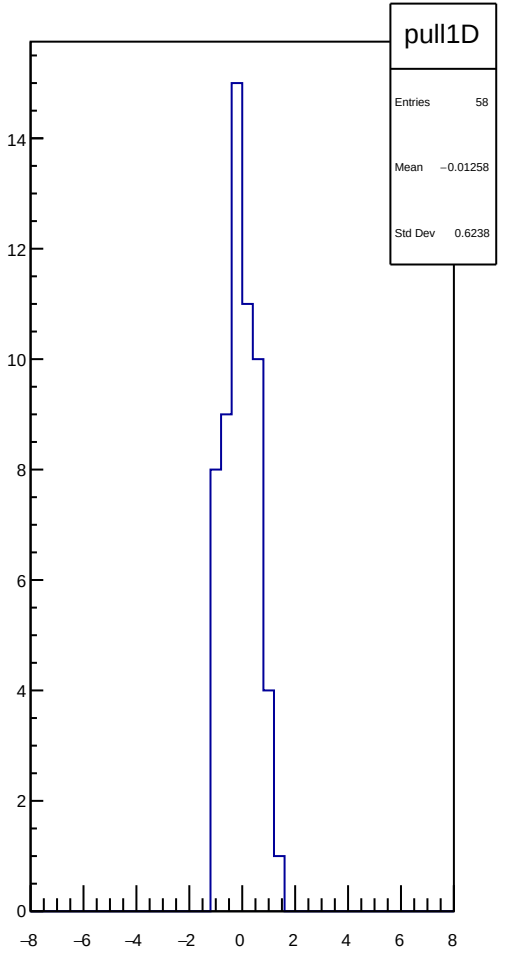

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 21.06 / 57
p0 −40.94 ± 7.79
pull
Entries 58
Mean 108.7
Std Dev 91.08

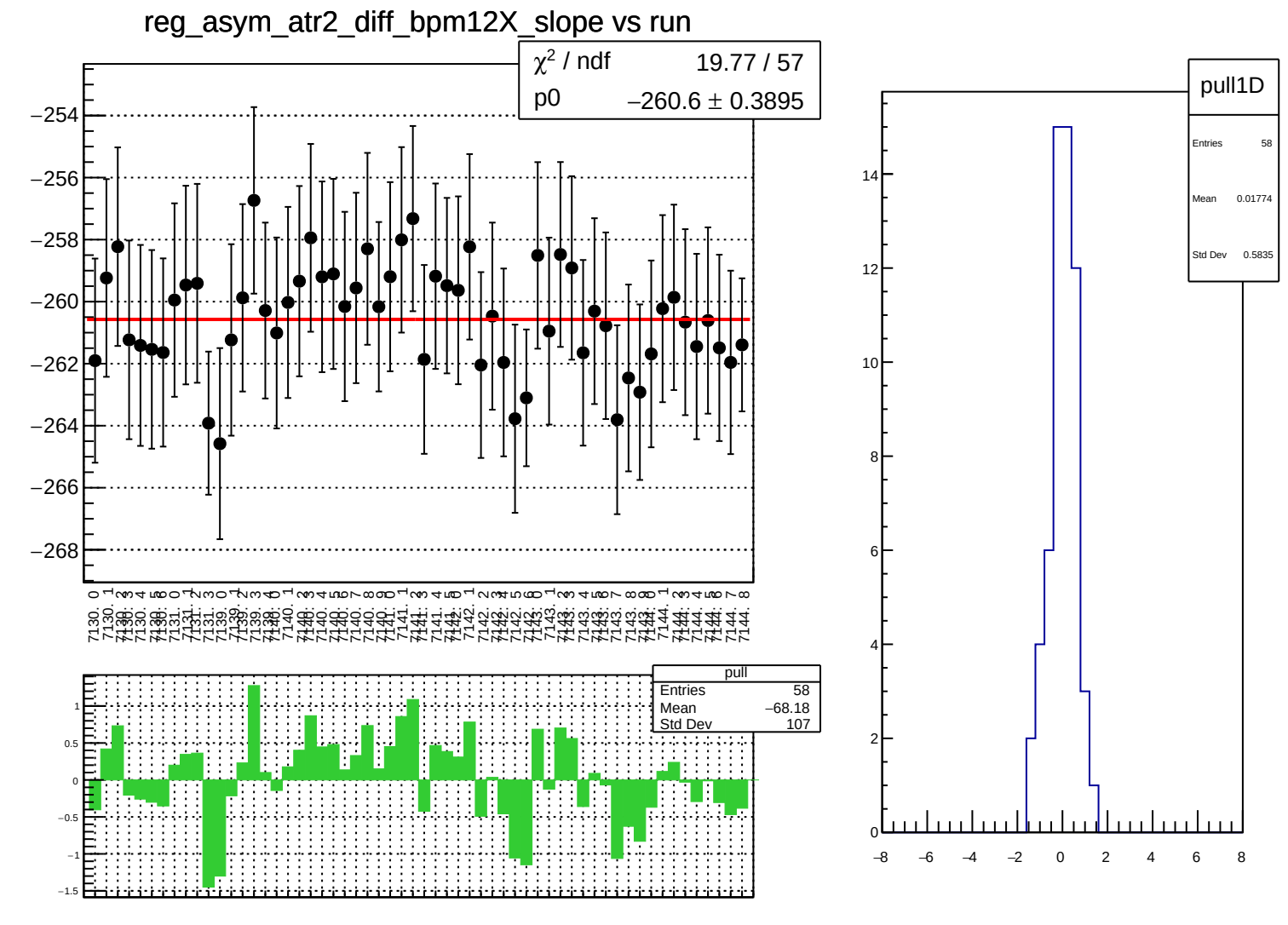

pull1D
Entries 58
Mean 0.004391
Std Dev 0.6026

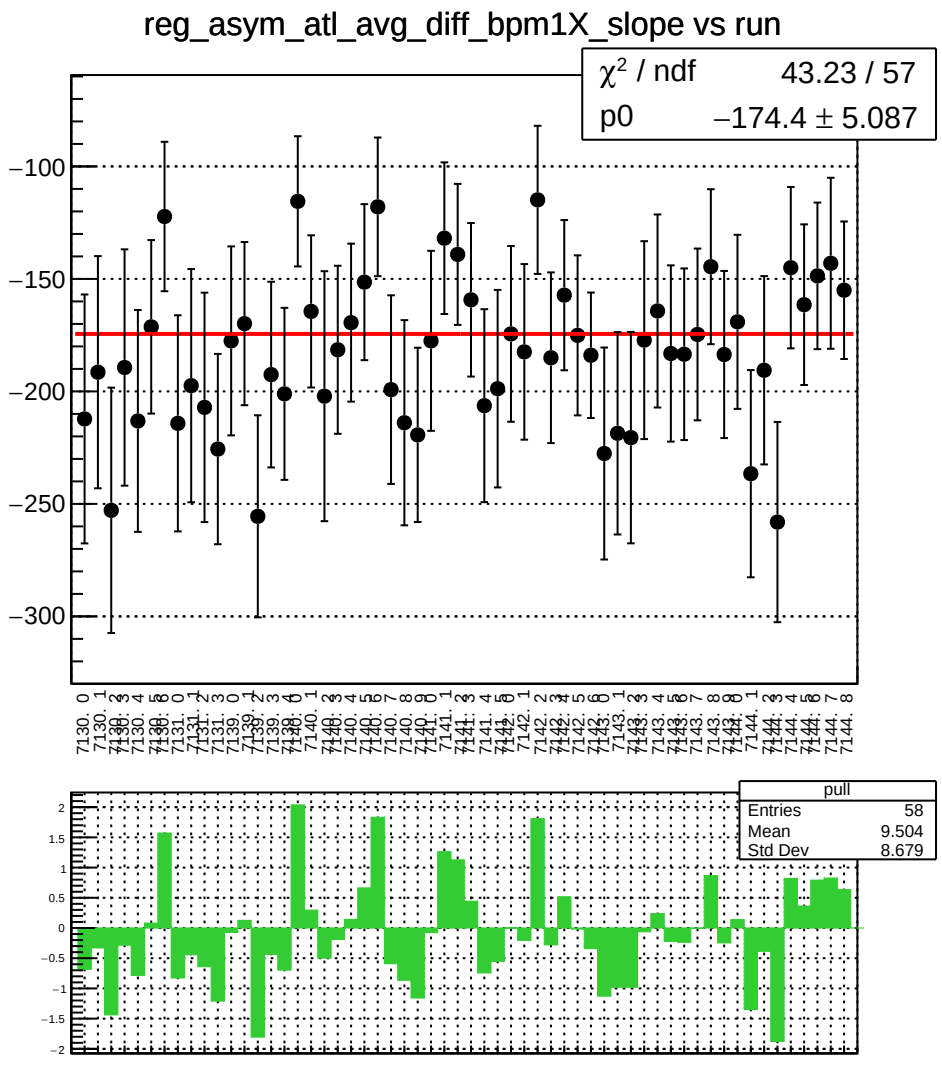

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 75.5 / 57
p0 378.8 ± 8.765
pull
Entries 58
Mean 11.36
Std Dev 14.24

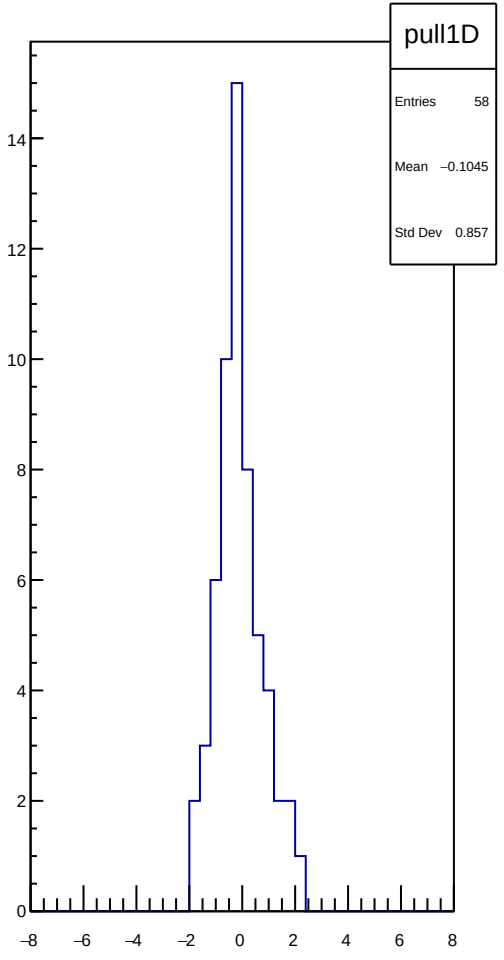

pull1D
Entries 58
Mean 0.1464
Std Dev 1.131

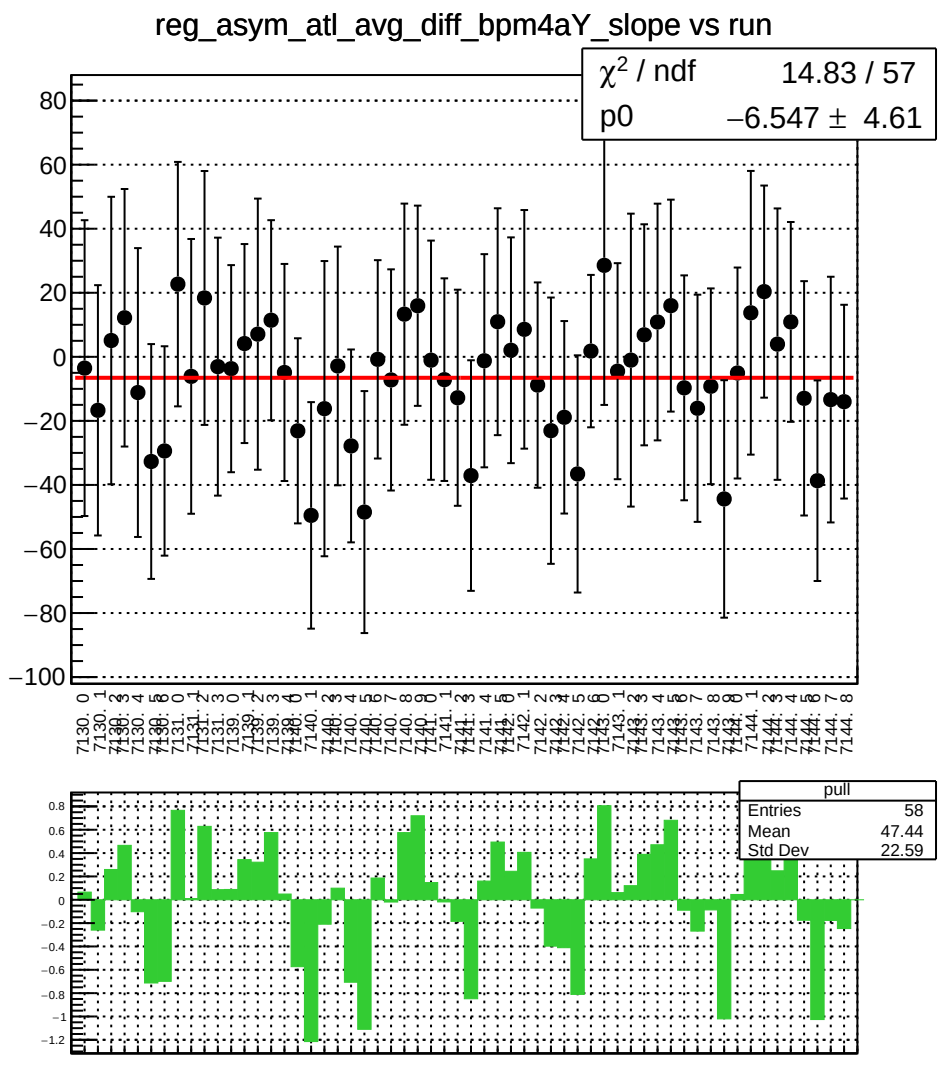

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 22.58 / 57
p0 179.9 ± 8.347
pull
Entries 58
Mean 67.56
Std Dev 44.86

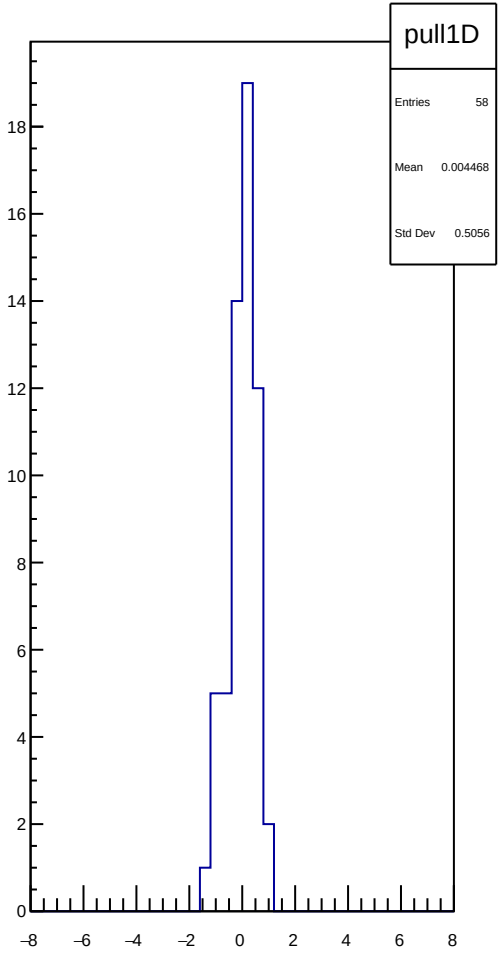

pull1D
Entries 58
Mean −0.01258
Std Dev 0.6238

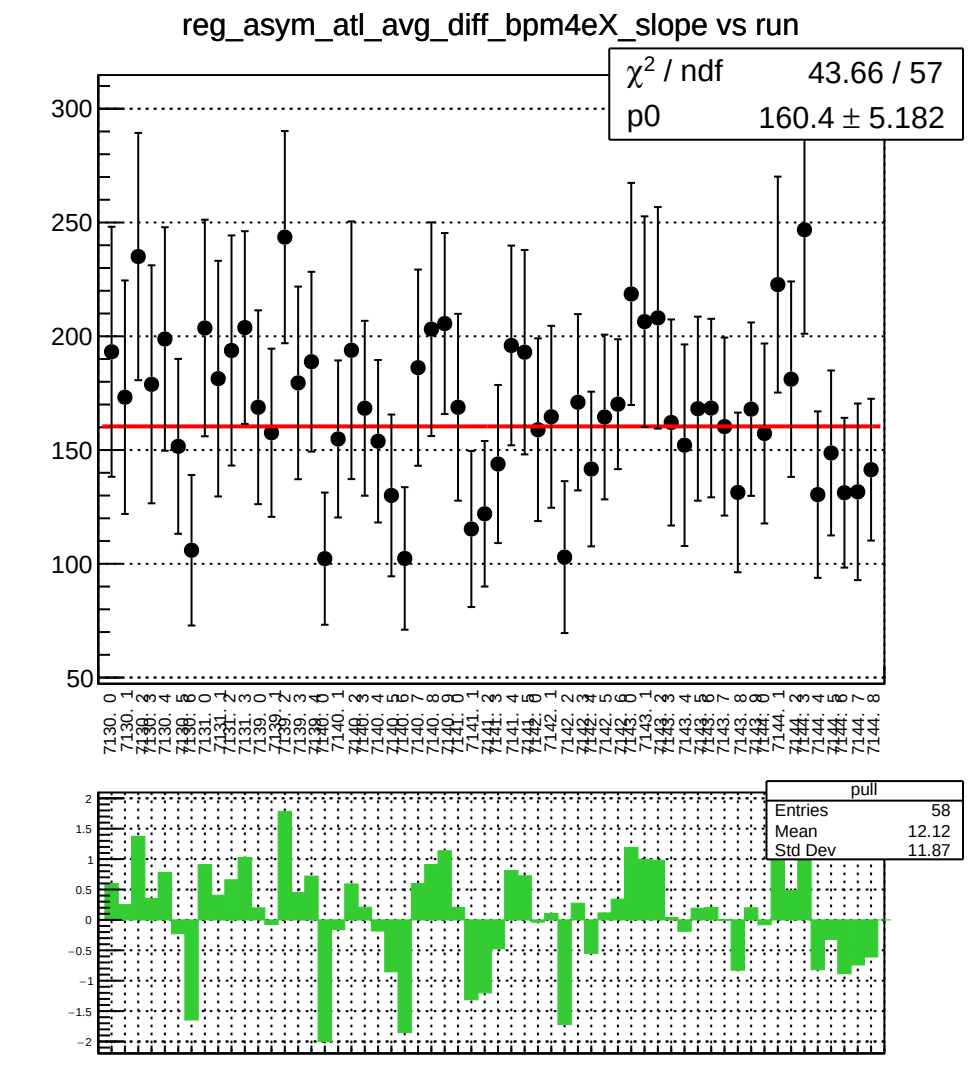

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 19.77 / 57
p0 −260.6 ± 0.3895
pull
Entries 58
Mean −68.18
Std Dev 107
pull1D
Entries 58
Mean 0.01774
Std Dev 0.5835

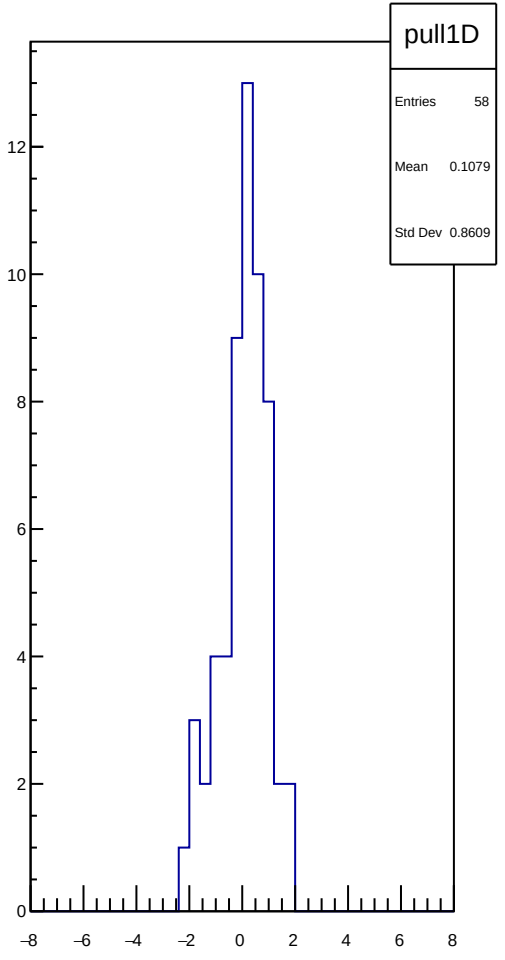

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 43.23 / 57
p0 −174.4 ± 5.087
pull
Entries 58
Mean 9.504
Std Dev 8.679

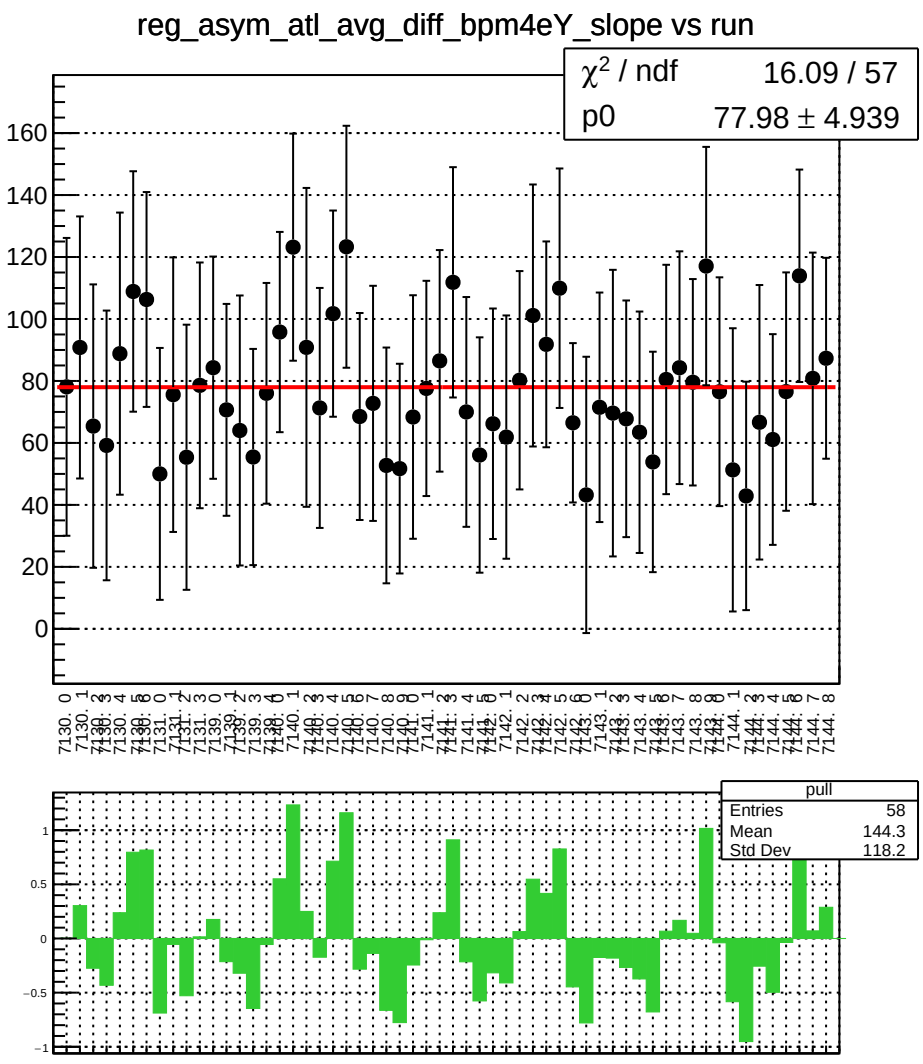

pull1D
Entries 58
Mean −0.1045
Std Dev 0.857

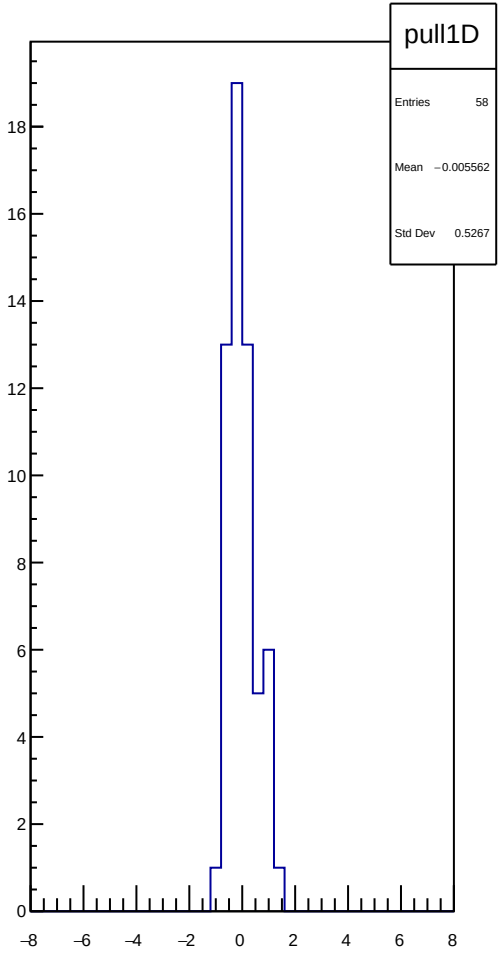

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.83 / 57
p0 −6.547 ± 4.61
pull
Entries 58
Mean 47.44
Std Dev 22.59

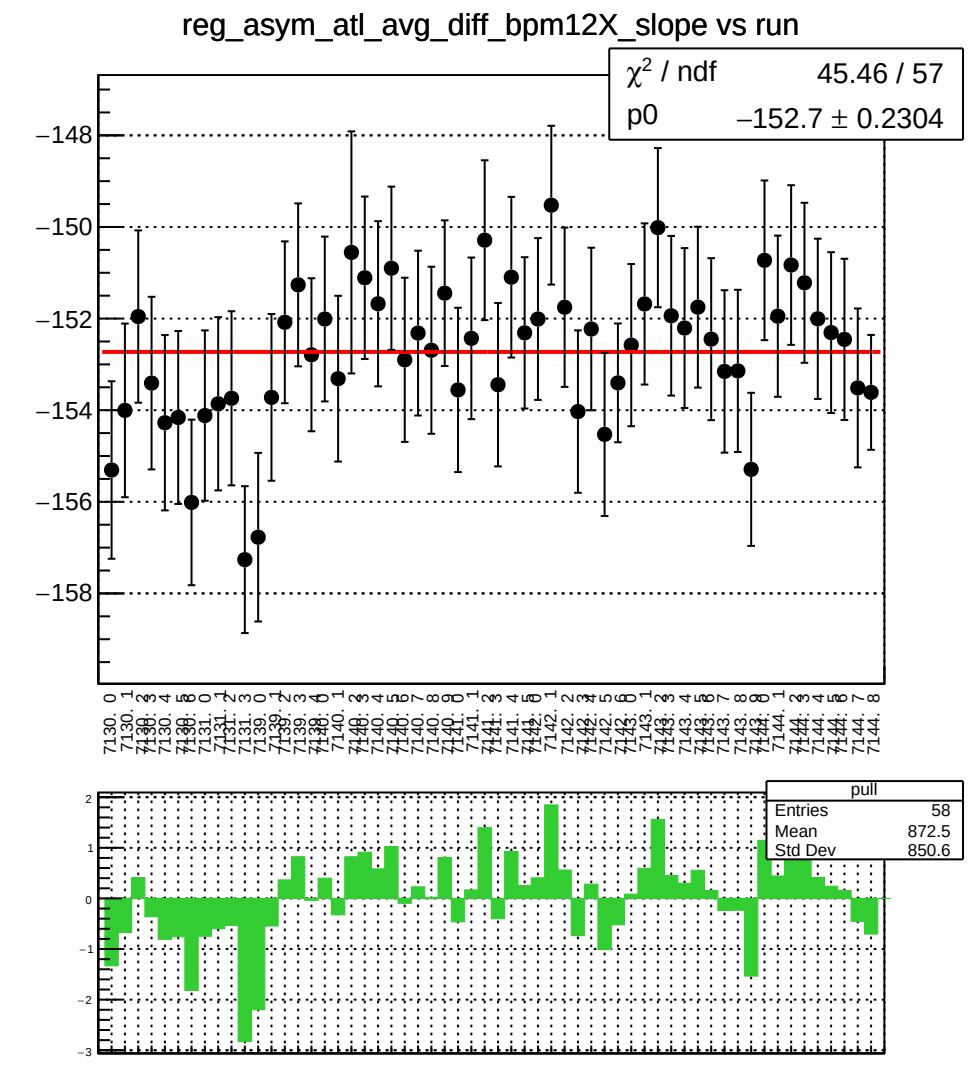

pull1D
Entries 58
Mean 0.004468
Std Dev 0.5056

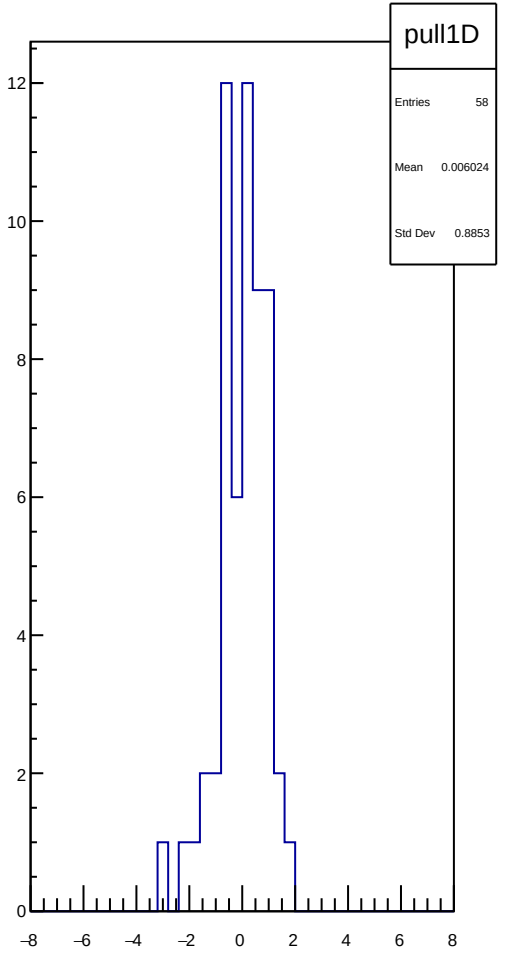

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.66 / 57
p0 160.4 ± 5.182
pull
Entries 58
Mean 12.12
Std Dev 11.87

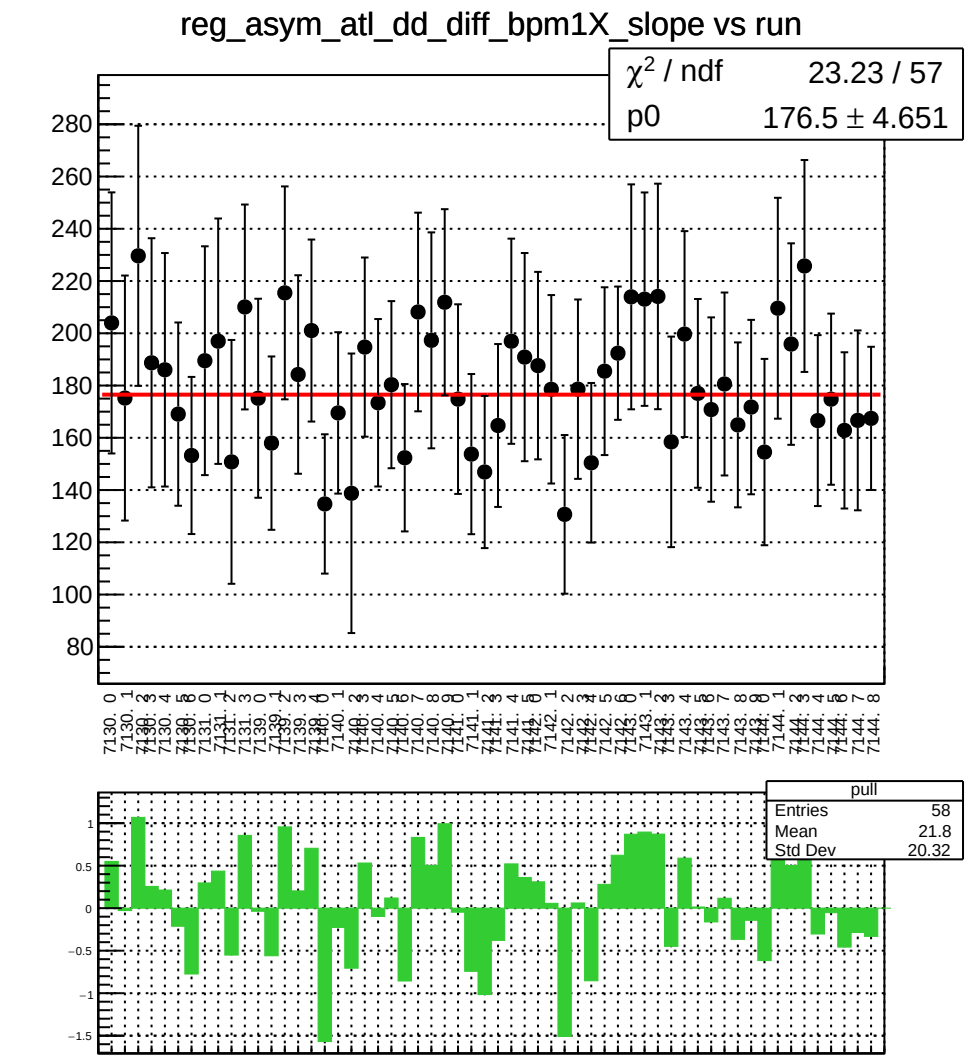

pull1D
Entries 58
Mean 0.1079
Std Dev 0.8609

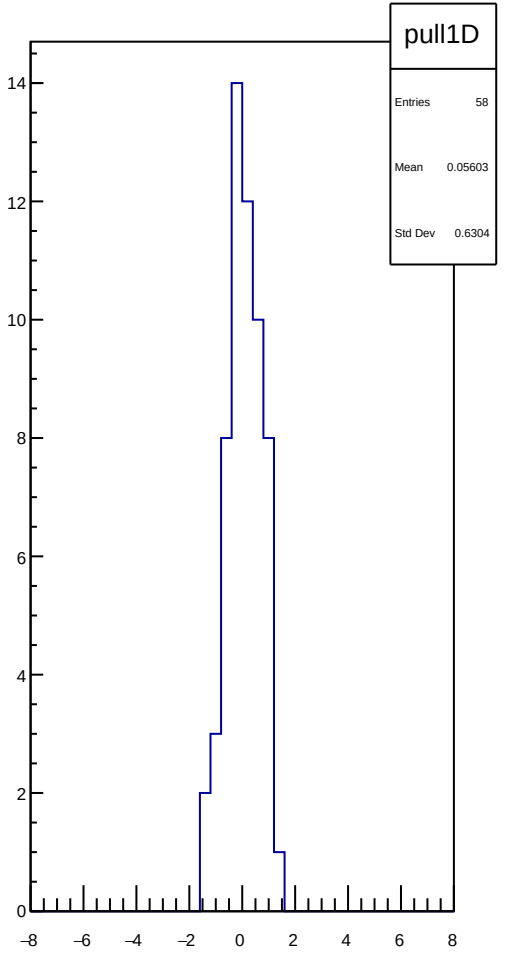

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.09 / 57
p0 77.98 ± 4.939
pull
Entries 58
Mean 144.3
Std Dev 118.2

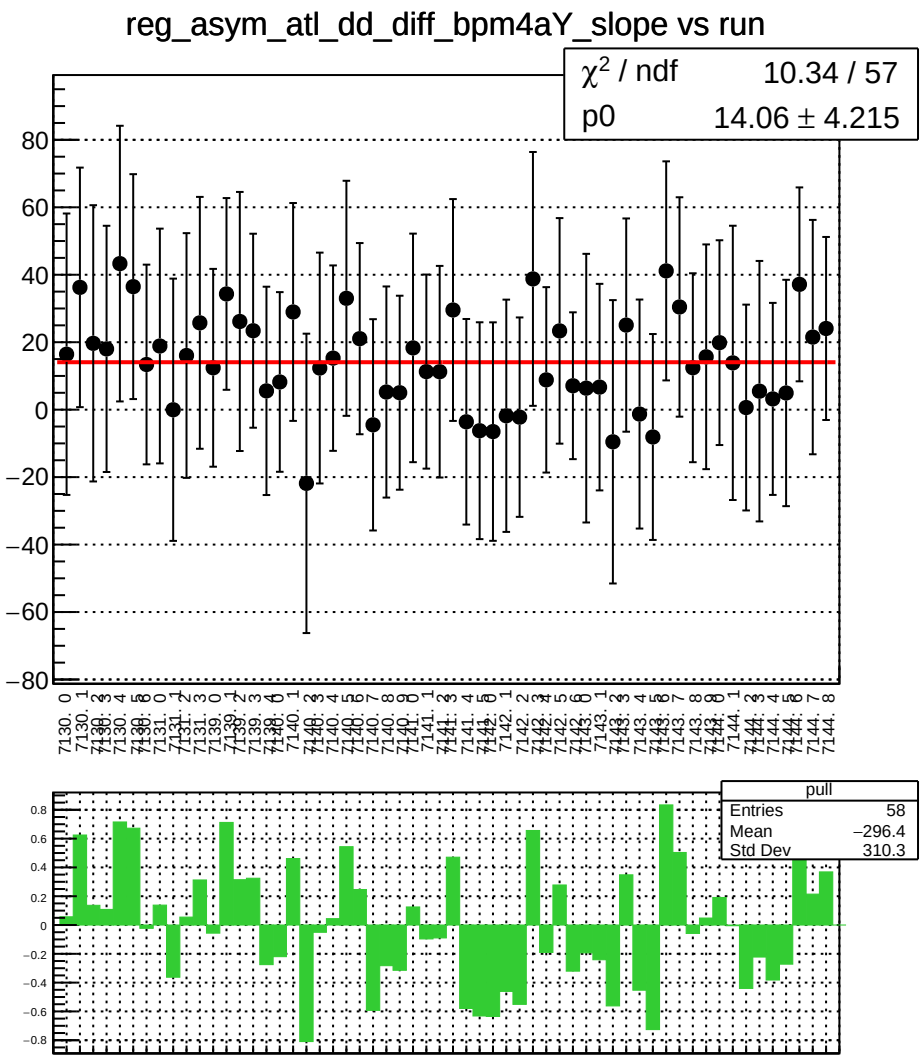

pull1D
Entries 58
Mean −0.005562
Std Dev 0.5267

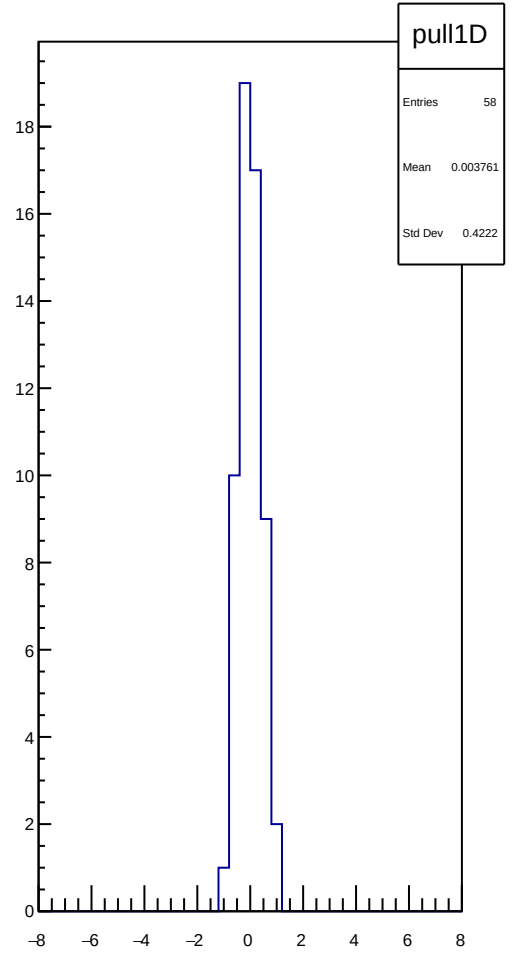

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 45.46 / 57
p0 −152.7 ± 0.2304
pull
Entries 58
Mean 872.5
Std Dev 850.6

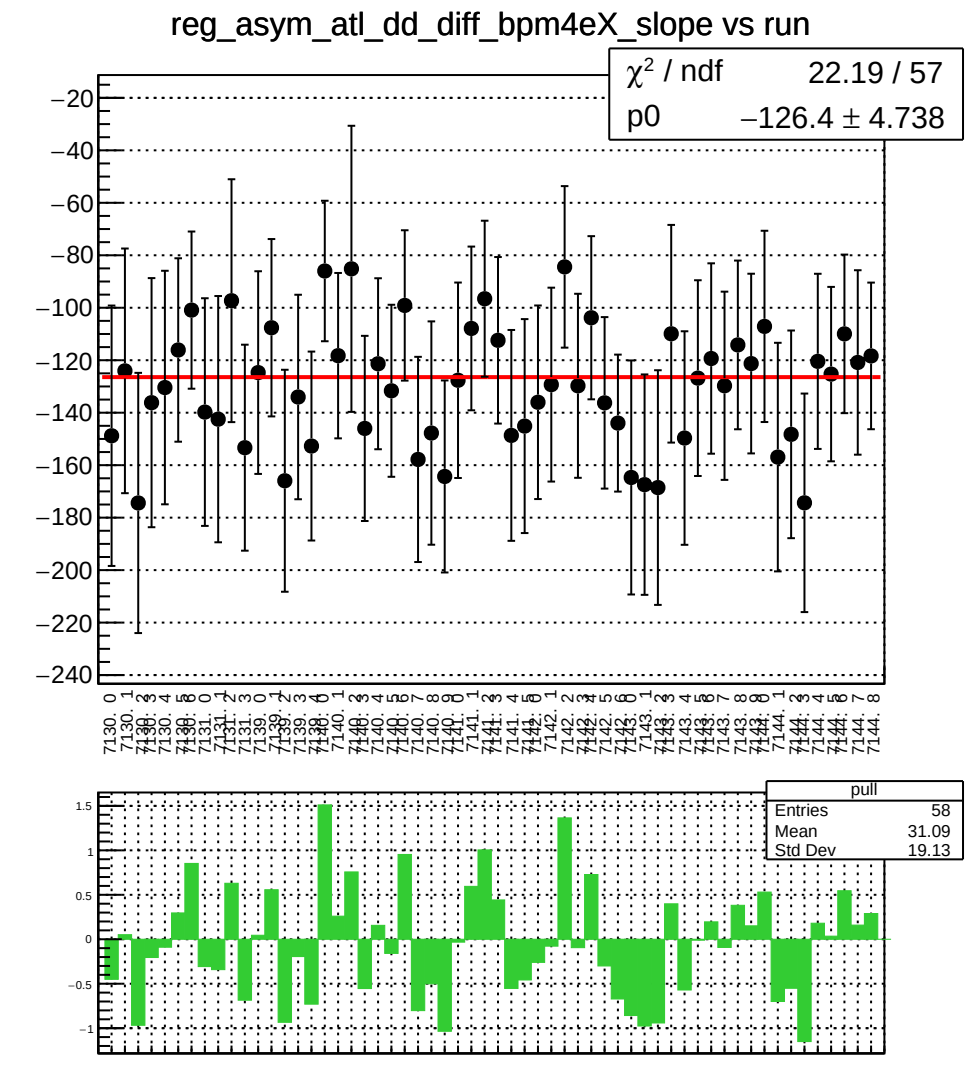

pull1D
Entries 58
Mean 0.006024
Std Dev 0.8853

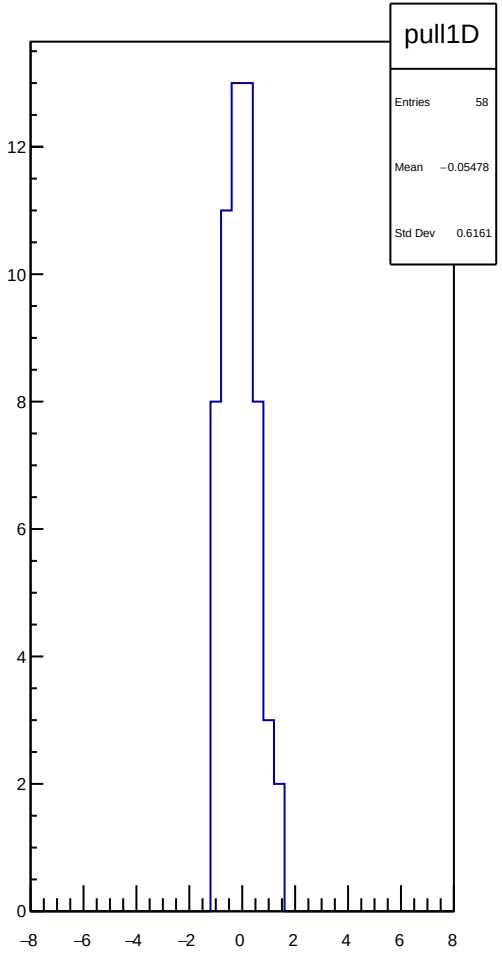

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 23.23 / 57
p0 176.5 ± 4.651
pull
Entries 58
Mean 21.8
Std Dev 20.32

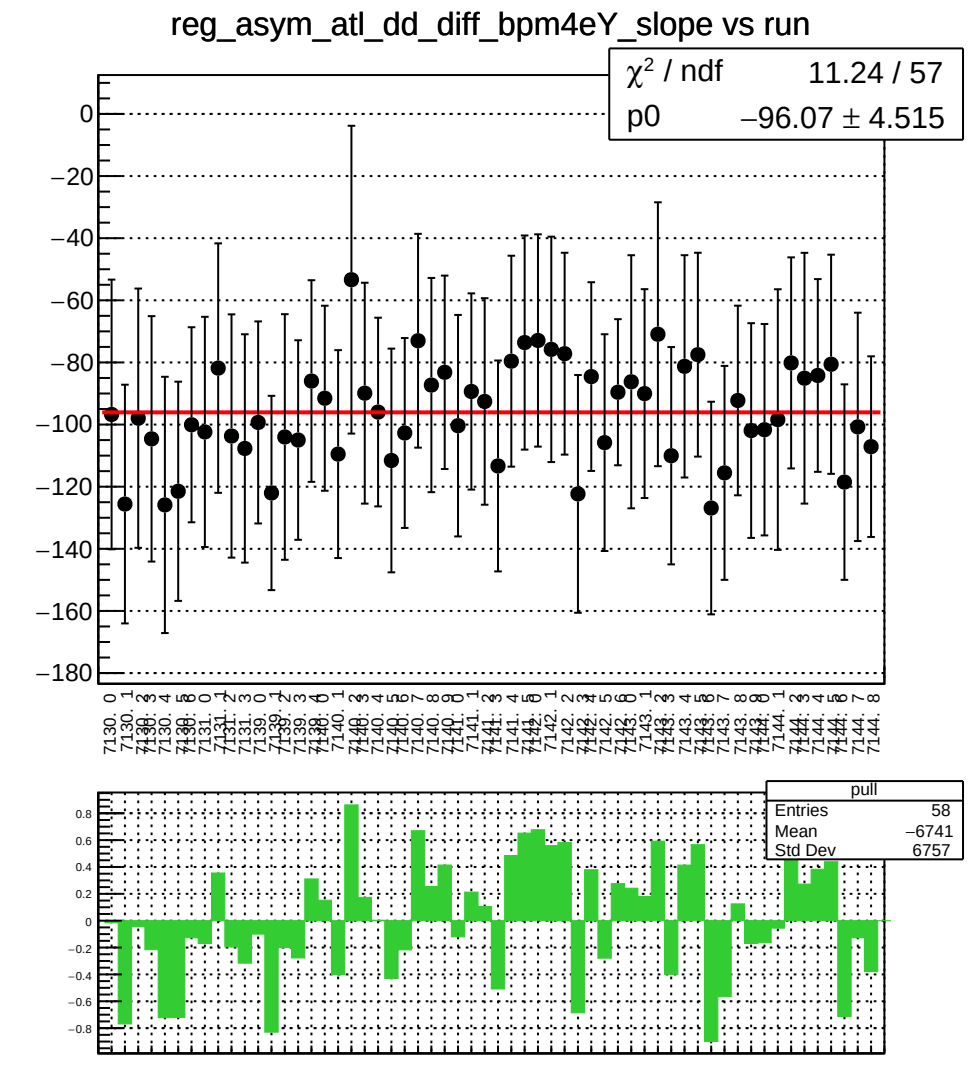

pull1D
Entries 58
Mean 0.05603
Std Dev 0.6304

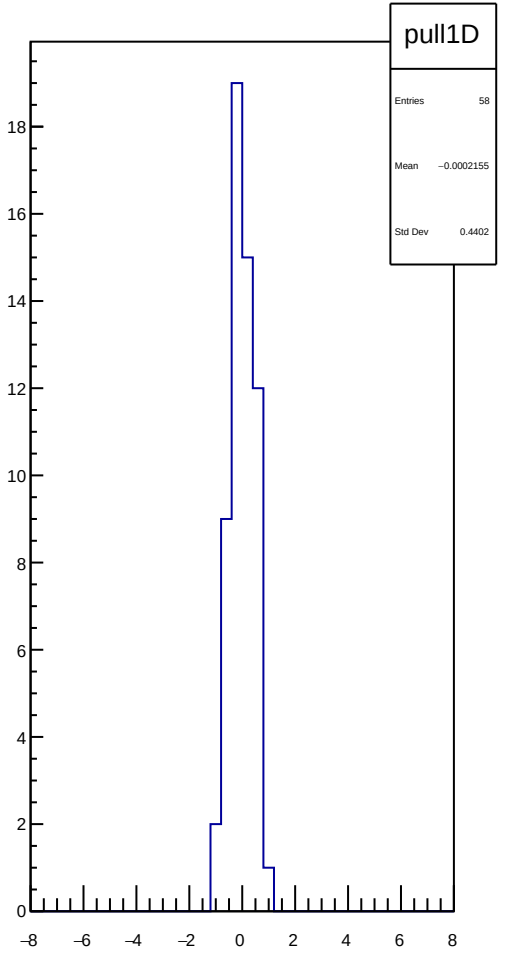

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.34 / 57
p0 14.06 ± 4.215
pull
Entries 58
Mean −296.4
Std Dev 310.3

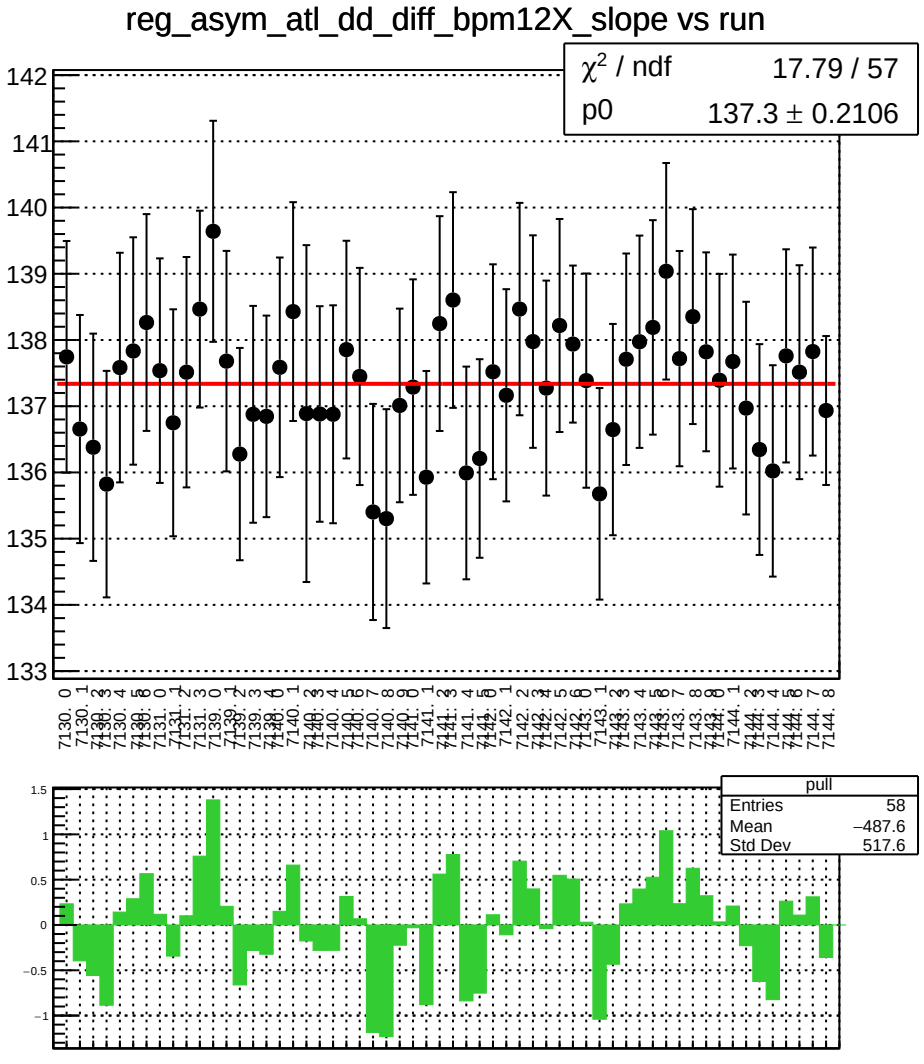

pull1D
Entries 58
Mean 0.003761
Std Dev 0.4222

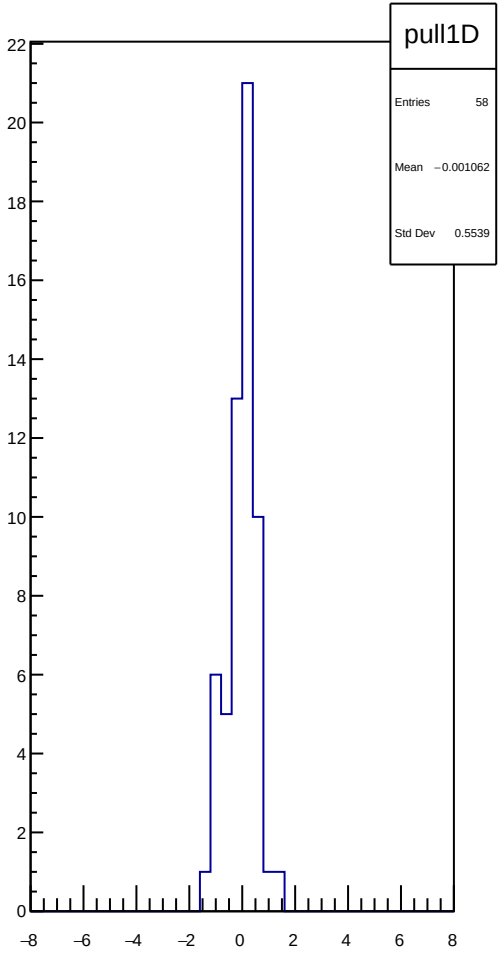

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.19 / 57
p0 −126.4 ± 4.738
pull
Entries 58
Mean 31.09
Std Dev 19.13

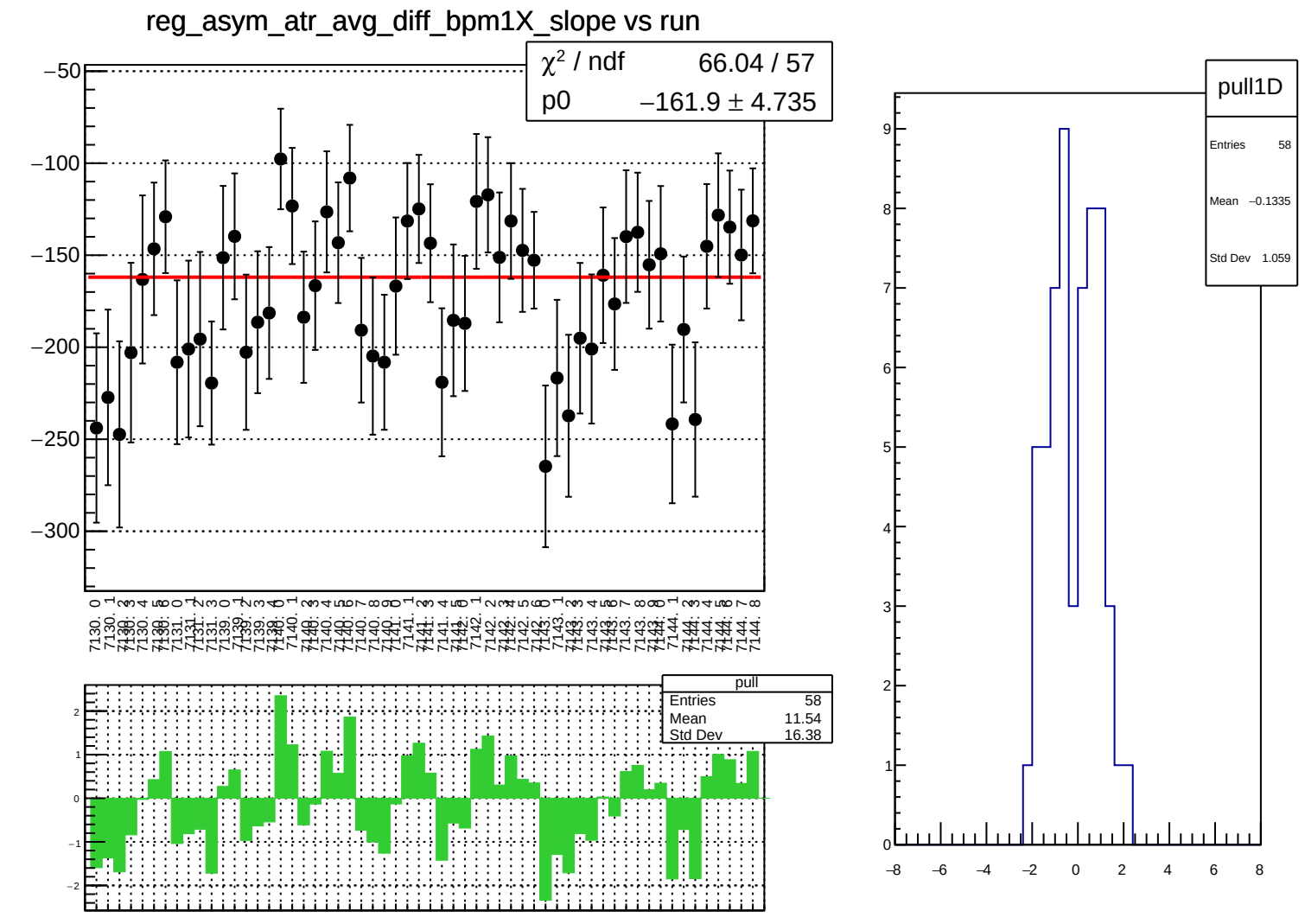

pull1D
Entries 58
Mean −0.05478
Std Dev 0.6161

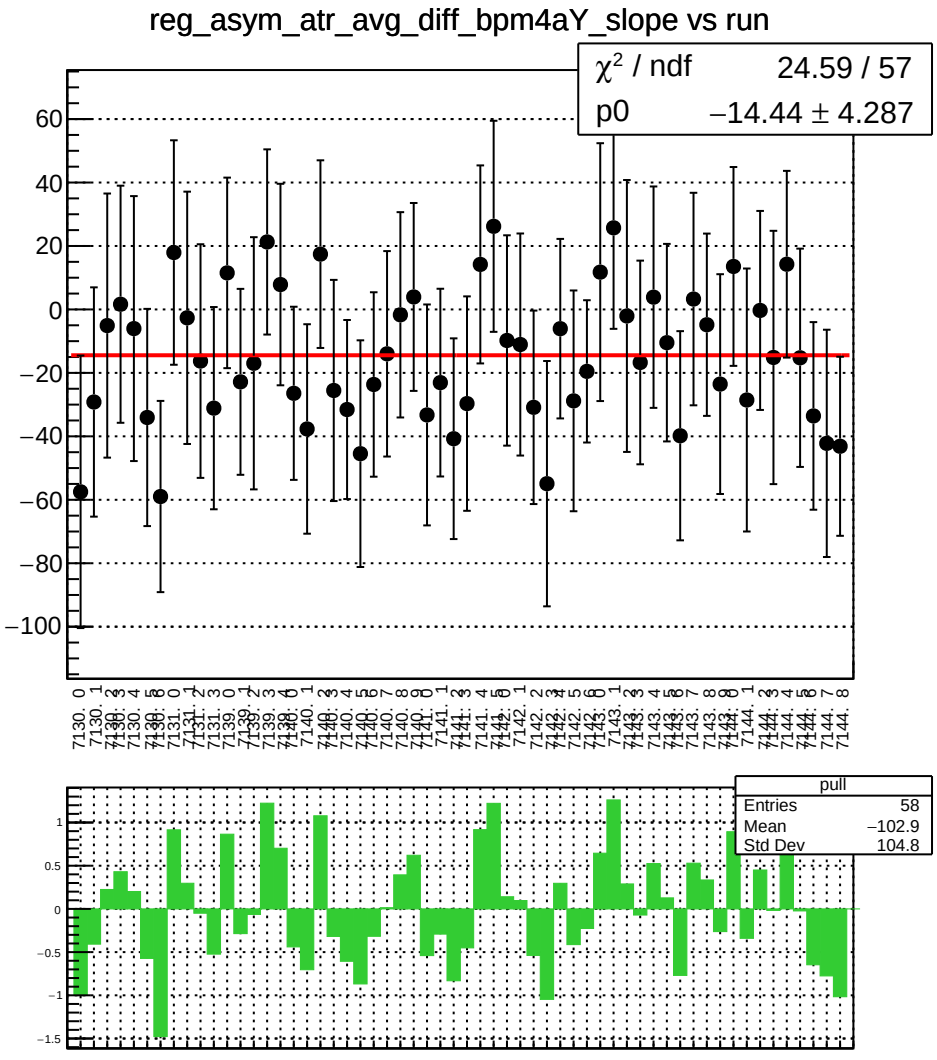

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.24 / 57
p0 −96.07 ± 4.515
pull
Entries 58
Mean −6741
Std Dev 6757

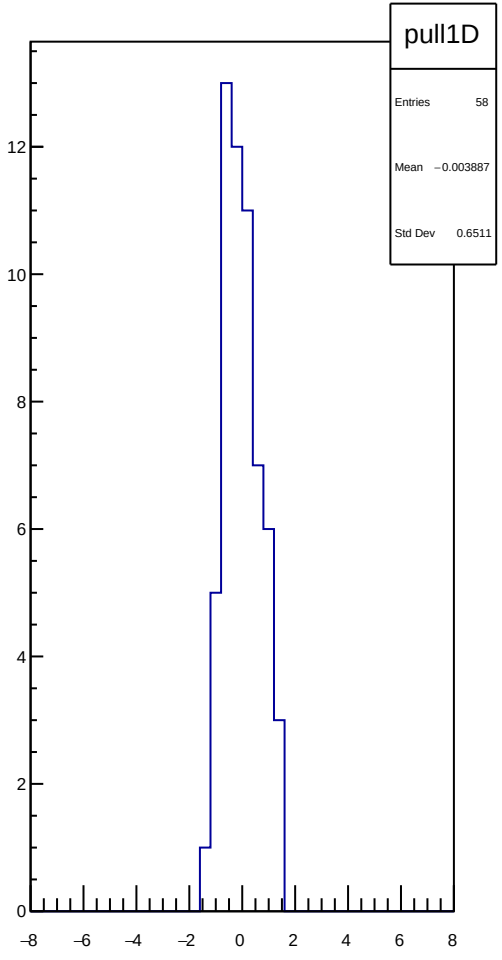

pull1D
Entries 58
Mean −0.0002155
Std Dev 0.4402

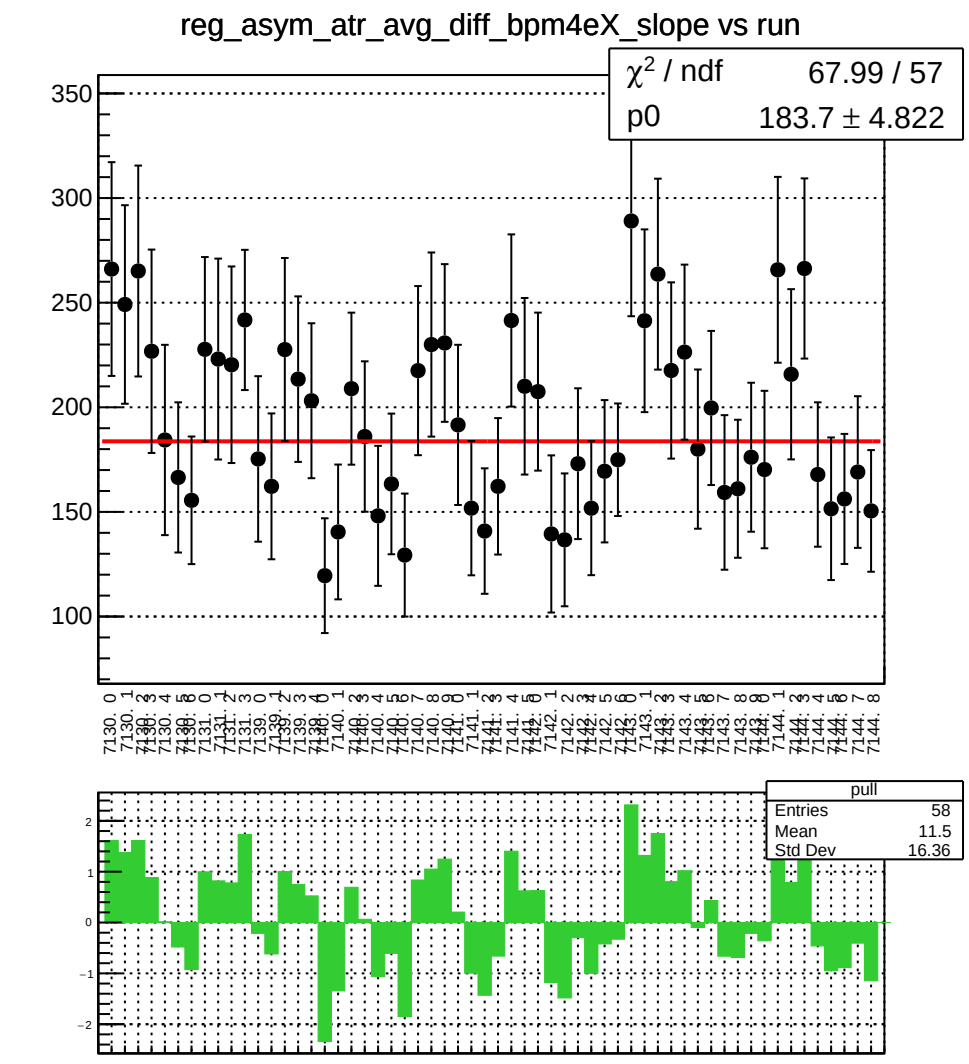

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 17.79 / 57
p0 137.3 ± 0.2106
pull
Entries 58
Mean −487.6
Std Dev 517.6

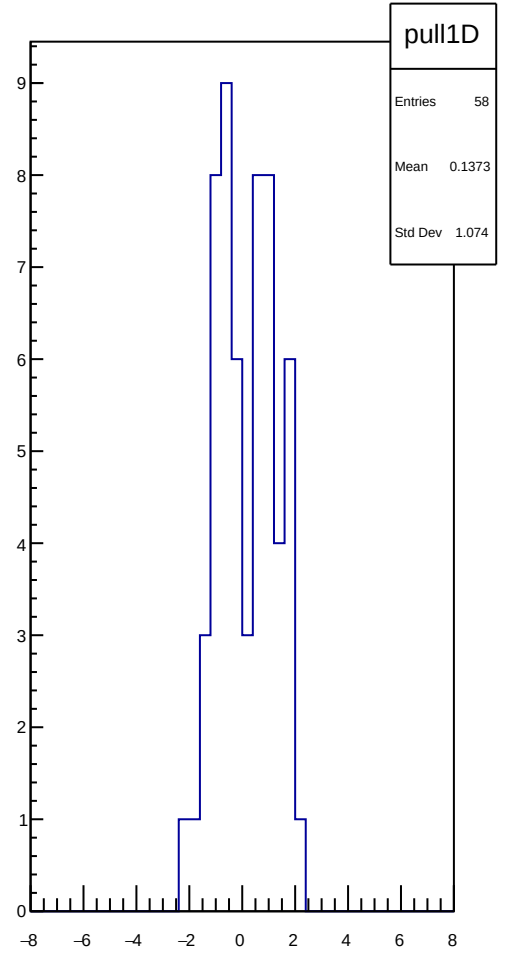

pull1D
Entries 58
Mean −0.001062
Std Dev 0.5539

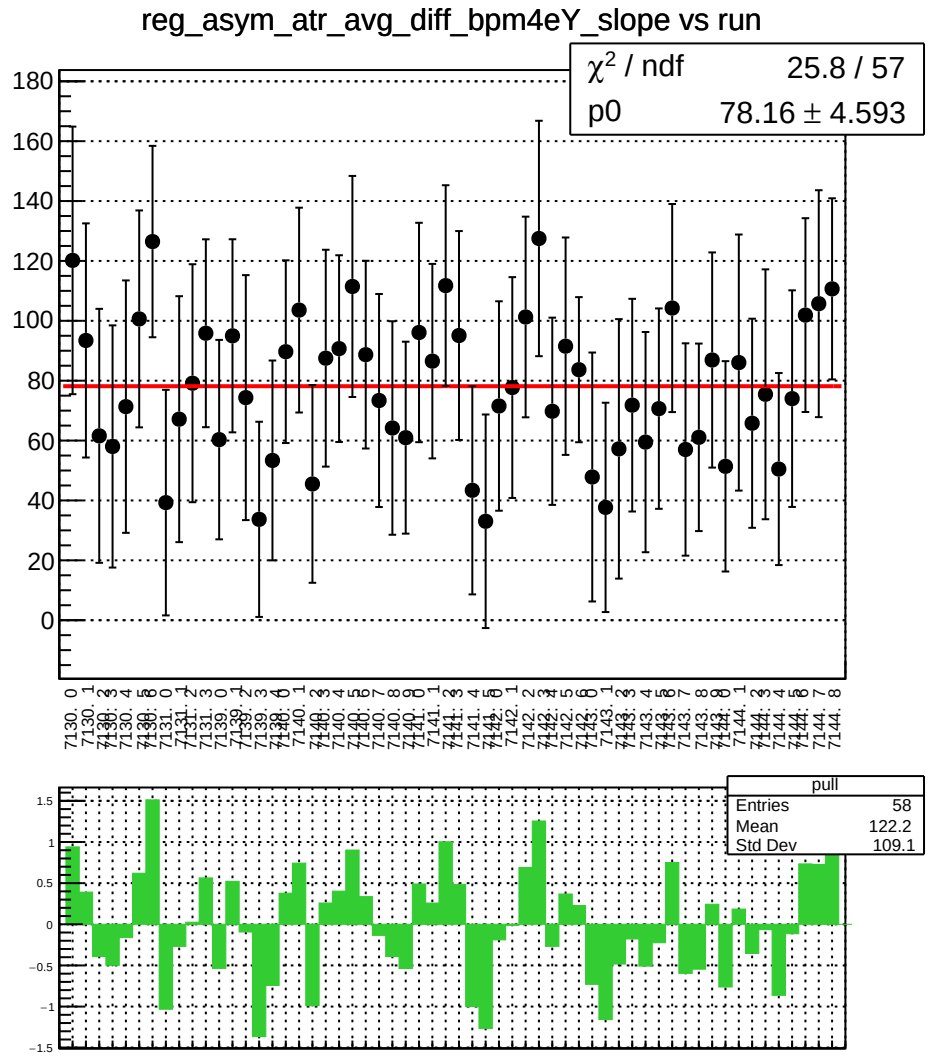

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 66.04 / 57
p0 −161.9 ± 4.735
pull
Entries 58
Mean 11.54
Std Dev 16.38
pull1D
Entries 58
Mean −0.1335
Std Dev 1.059

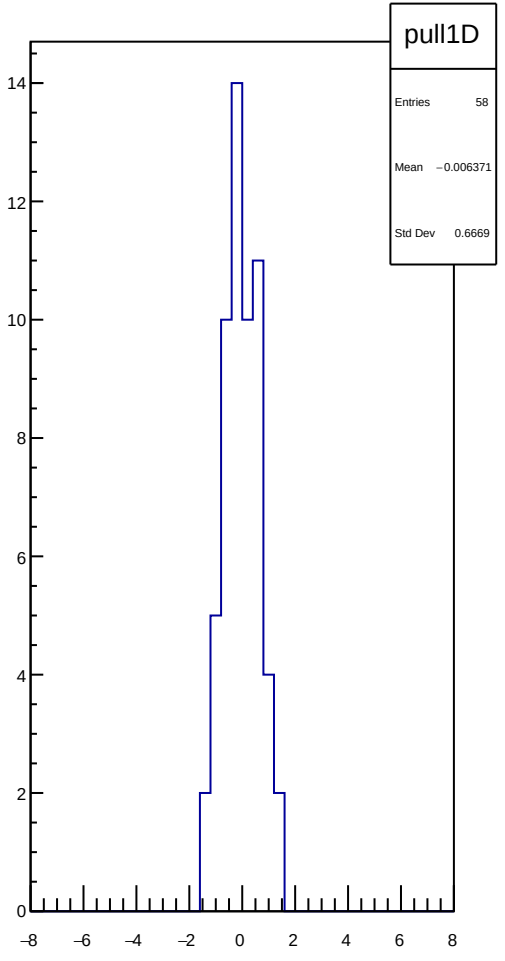

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.59 / 57
p0 −14.44 ± 4.287
pull
Entries 58
Mean −102.9
Std Dev 104.8

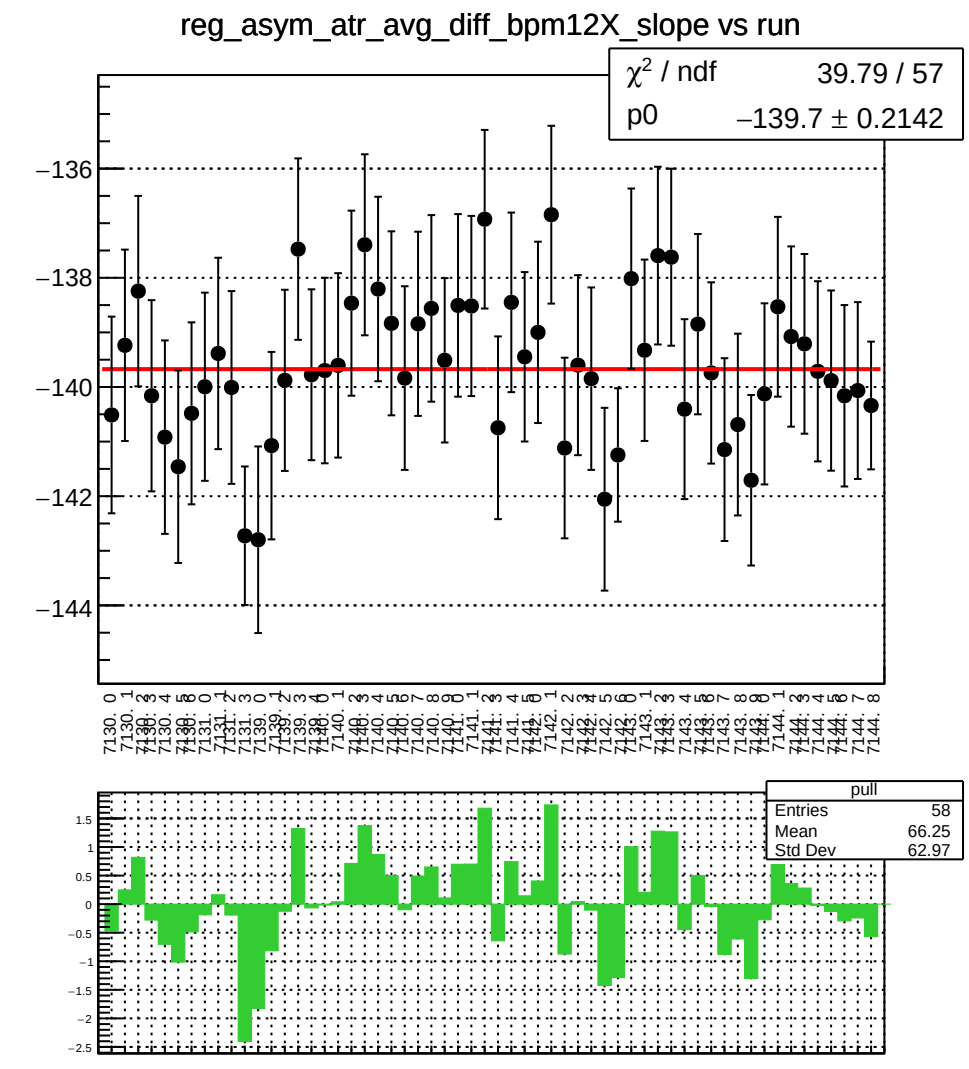

pull1D
Entries 58
Mean −0.003887
Std Dev 0.6511

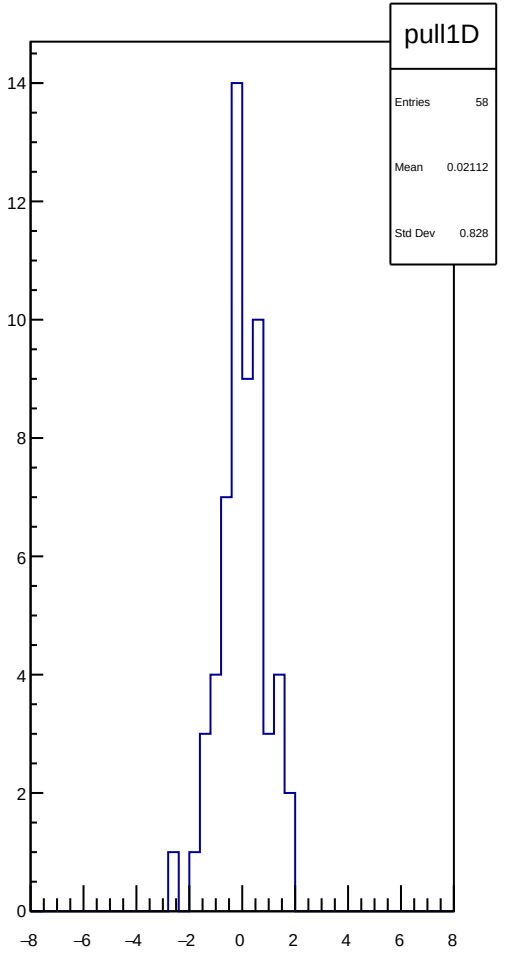

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 67.99 / 57
p0 183.7 ± 4.822
350
300
250
200
150
100
pull
Entries 58
Mean 11.5
Std Dev 16.36
2
1
0
−1
−2

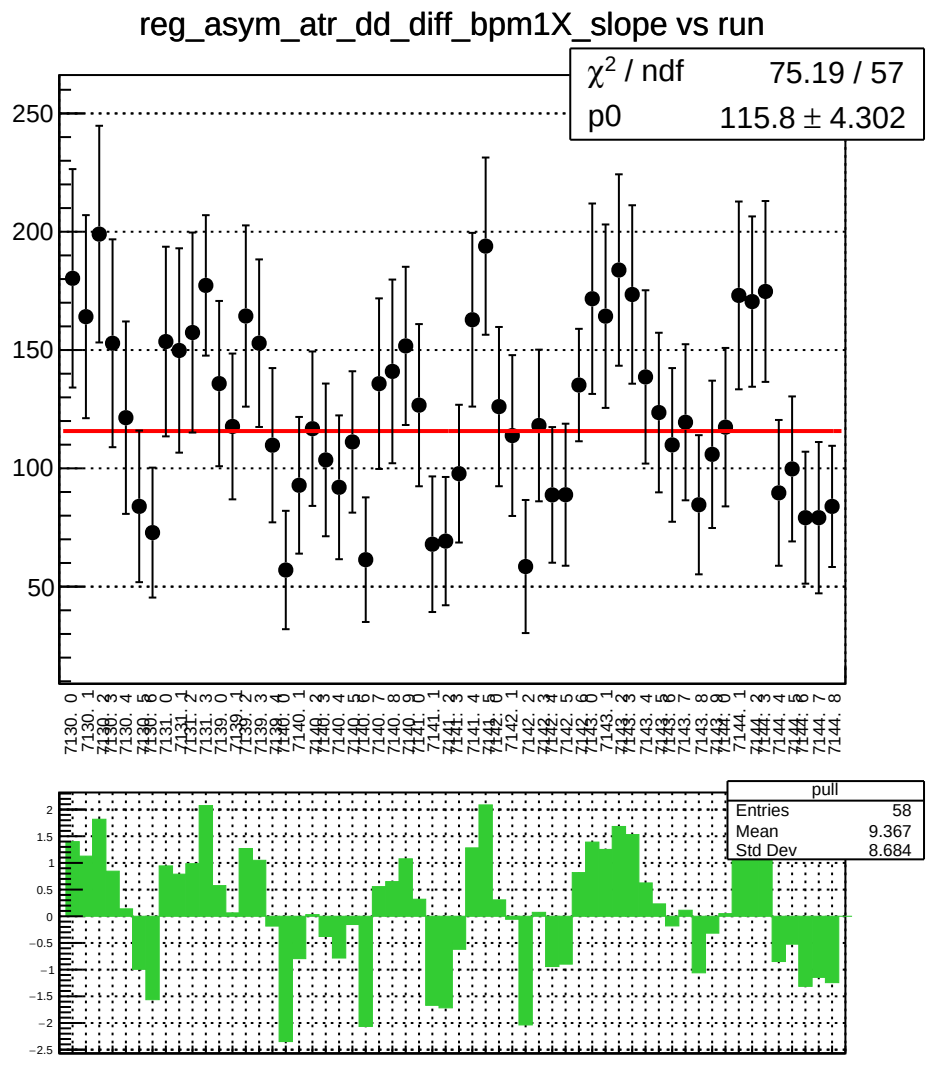

pull1D
Entries 58
Mean 0.1373
Std Dev 1.074
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

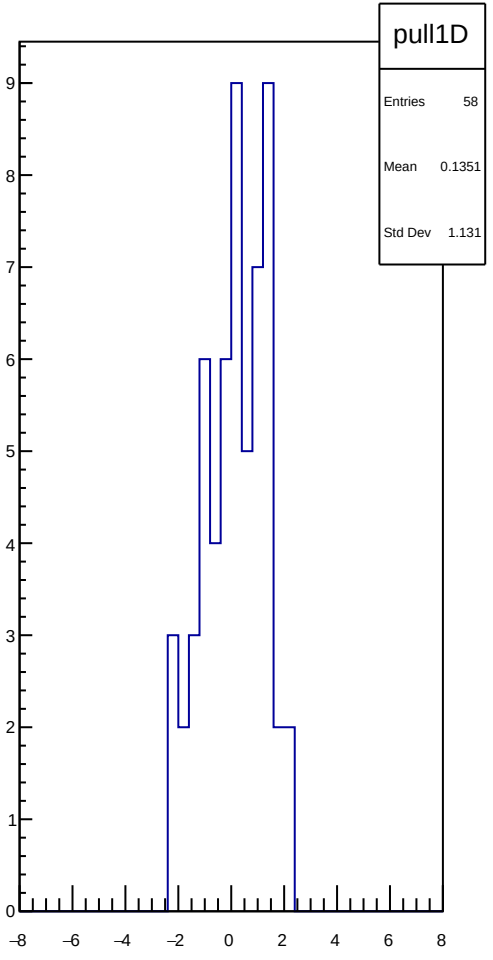

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.8 / 57
p0 78.16 ± 4.593
pull
Entries 58
Mean 122.2
Std Dev 109.1

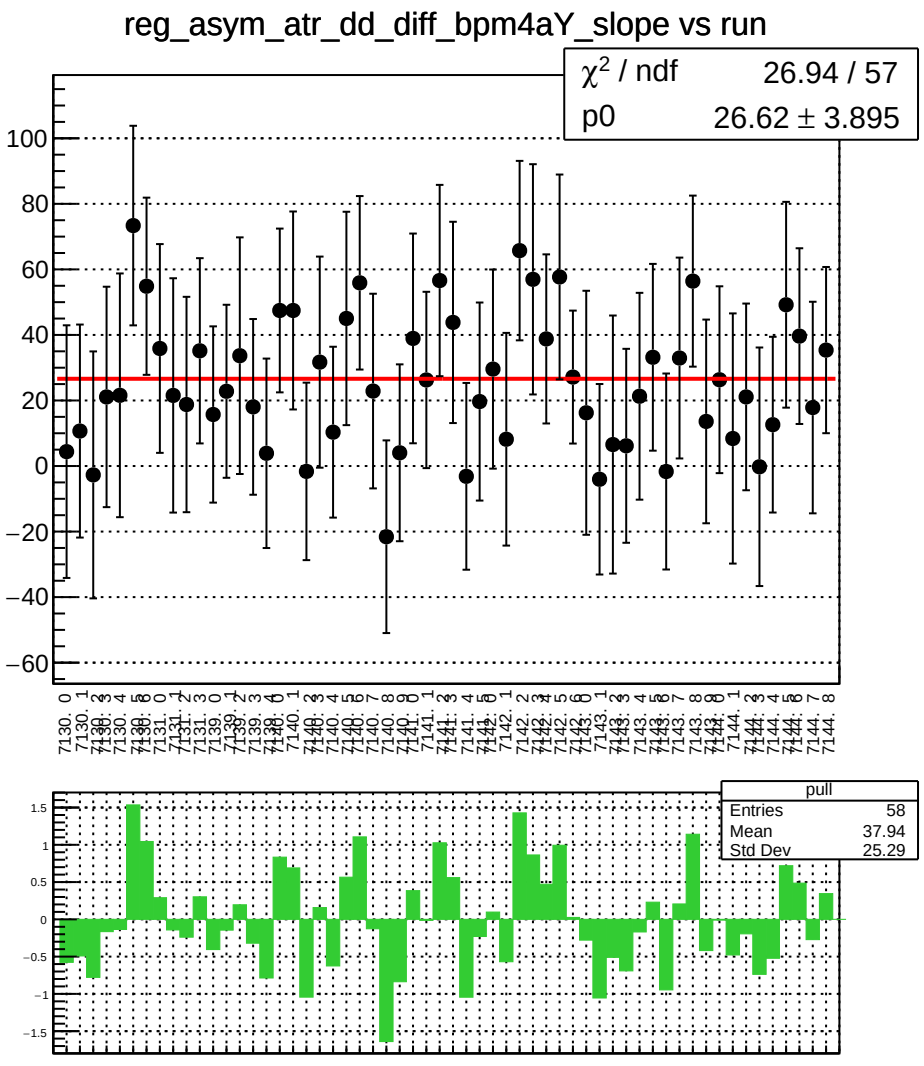

pull1D
Entries 58
Mean −0.006371
Std Dev 0.6669

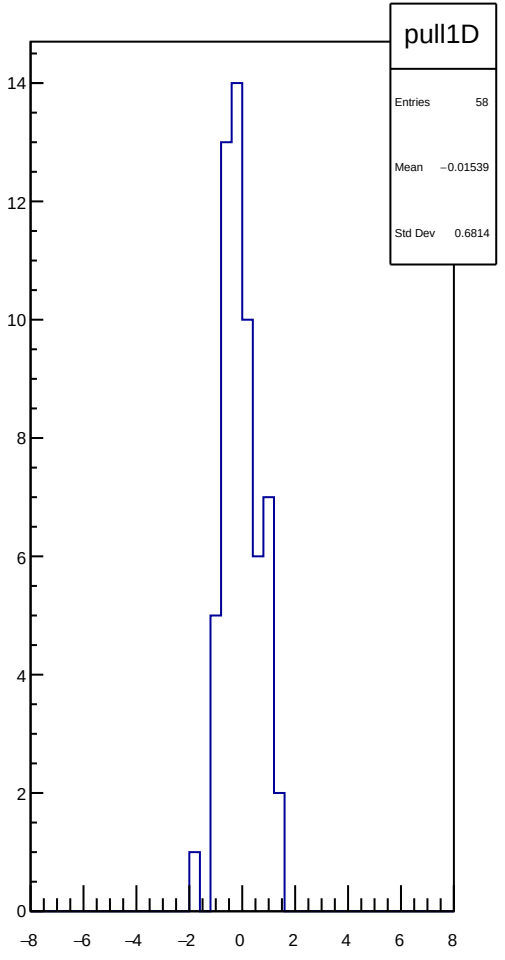

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 39.79 / 57
p0 −139.7 ± 0.2142
−136
−138
−140
−142
−144
pull
Entries 58
Mean 66.25
Std Dev 62.97
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

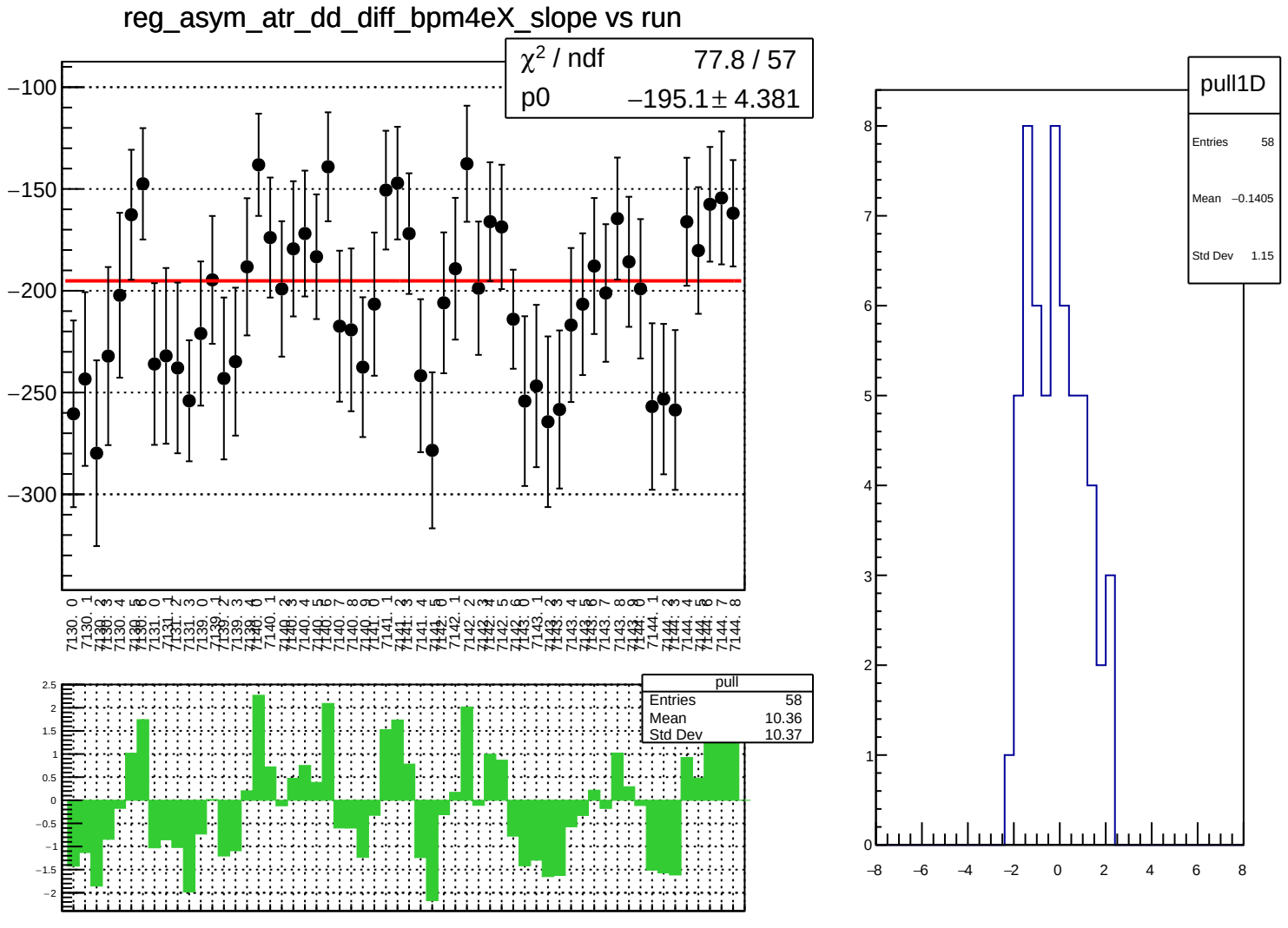

pull1D
Entries 58
Mean 0.02112
Std Dev 0.828
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

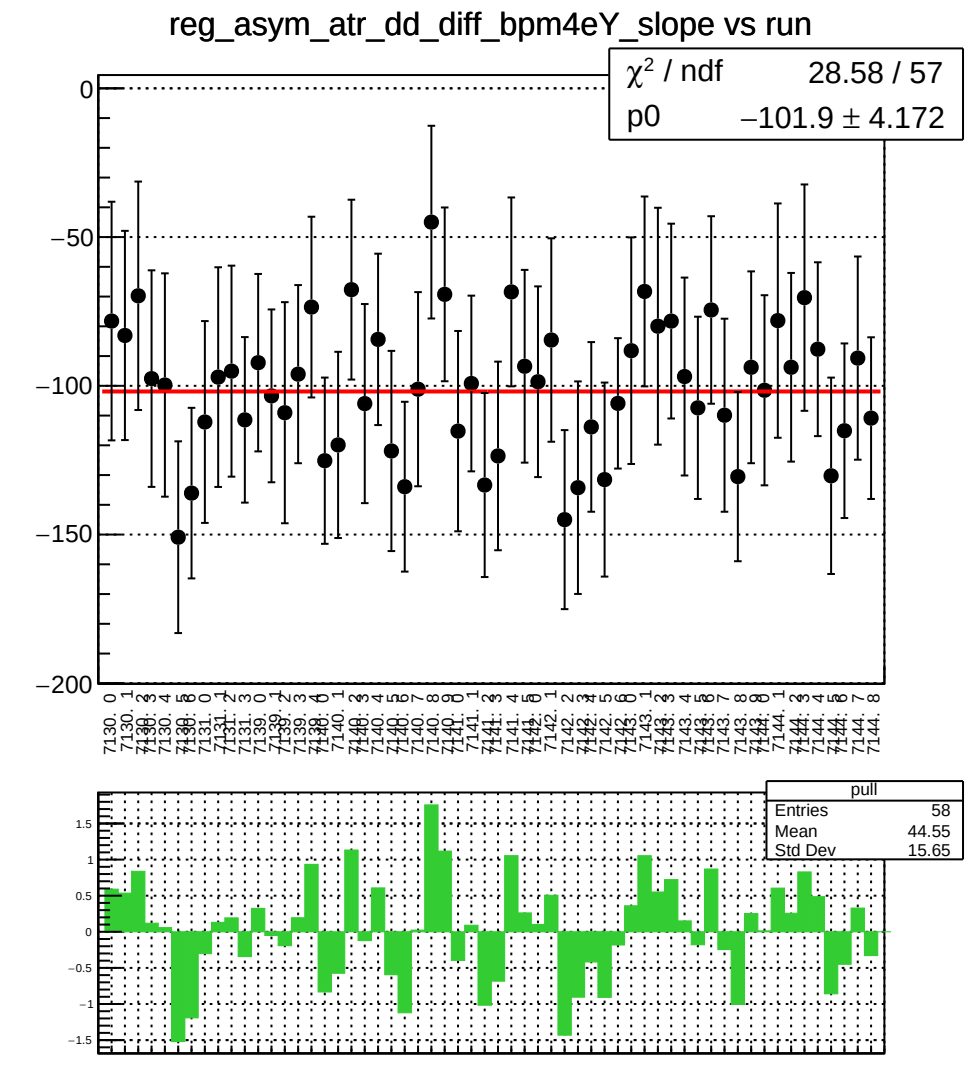

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 75.19 / 57
p0 115.8 ± 4.302
pull
Entries 58
Mean 9.367
Std Dev 8.684

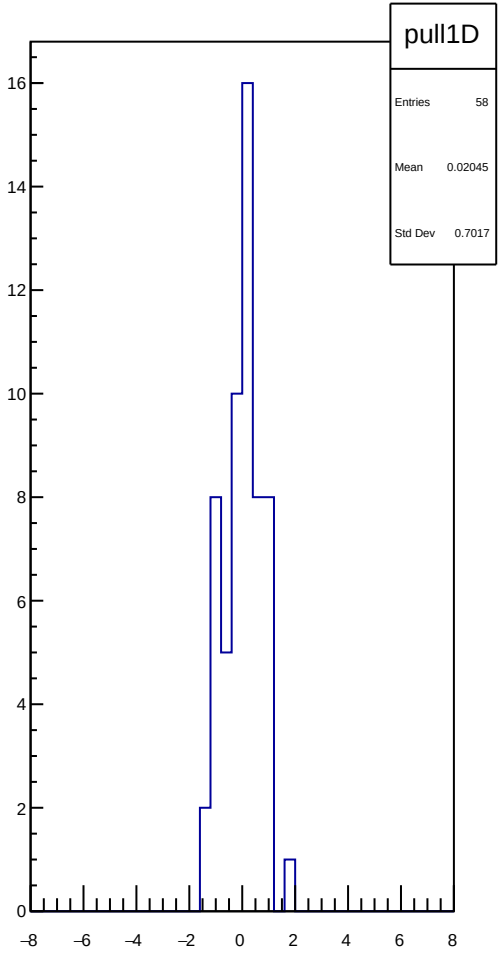

pull1D
Entries 58
Mean 0.1351
Std Dev 1.131

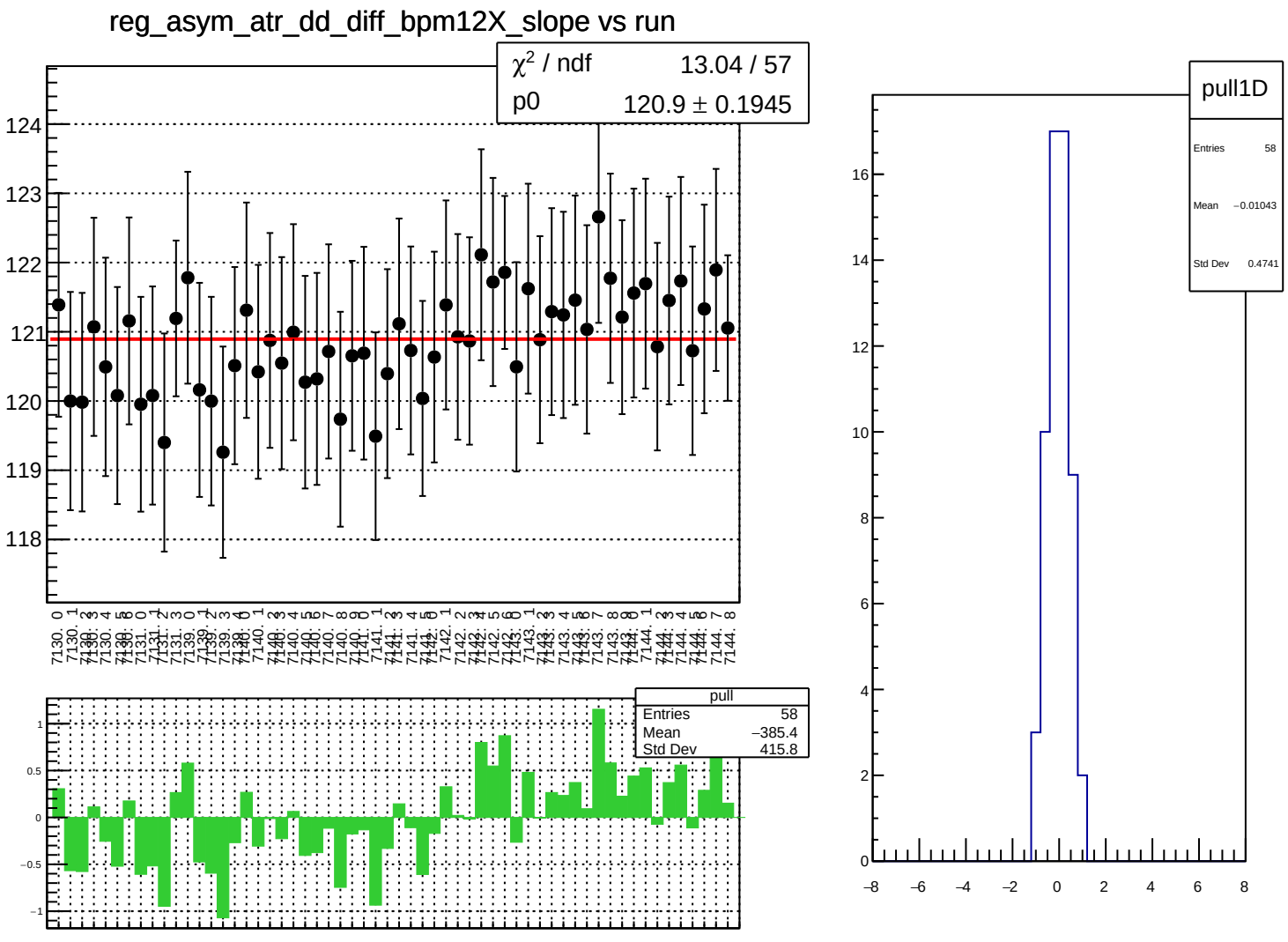

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.94 / 57
p0 26.62 ± 3.895
pull
Entries 58
Mean 37.94
Std Dev 25.29

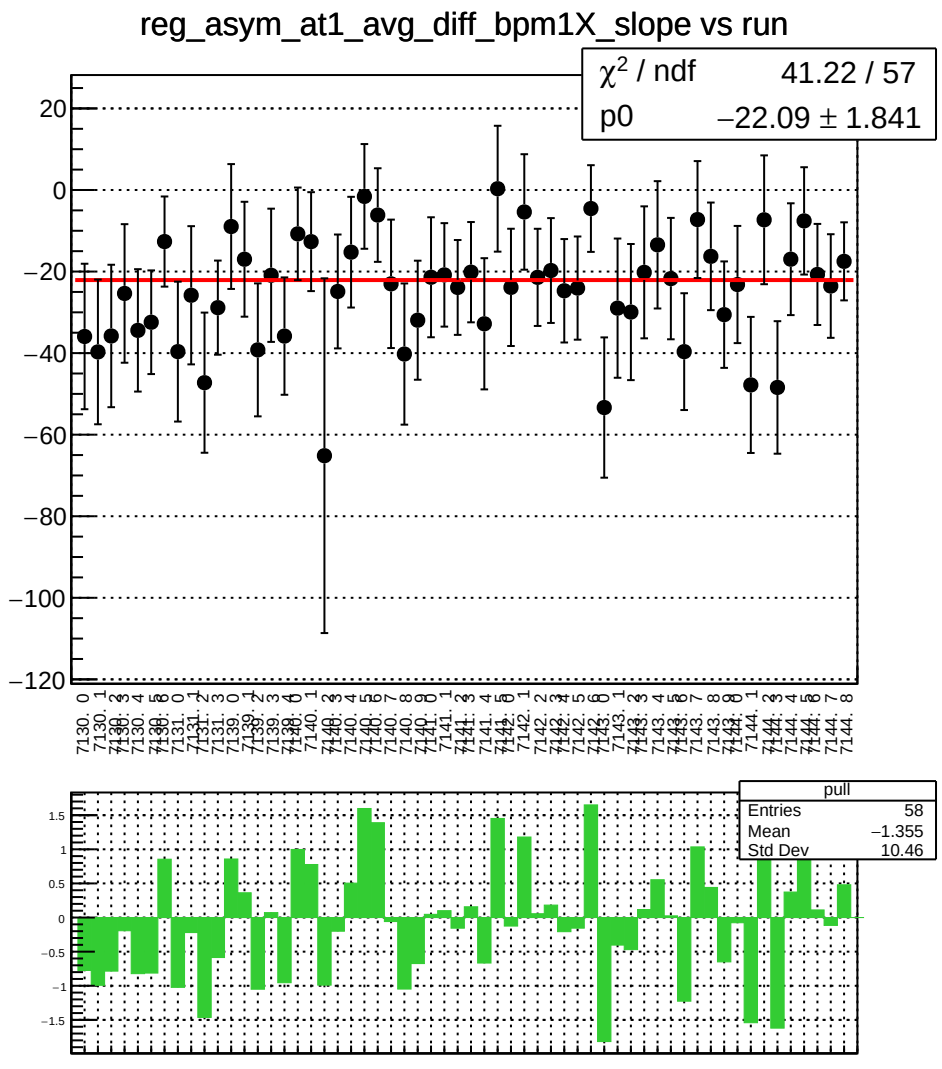

pull1D
Entries 58
Mean −0.01539
Std Dev 0.6814

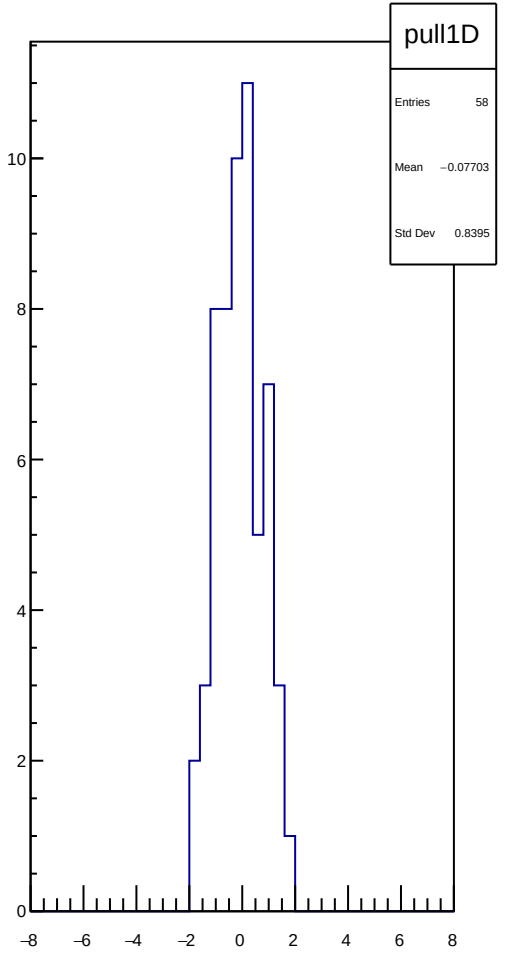

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 77.8 / 57
p0 −195.1 ± 4.381
−100
−150
−200
−250
−300
pull
Entries 58
Mean 10.36
Std Dev 10.37
pull1D
Entries 58
Mean −0.1405
Std Dev 1.15

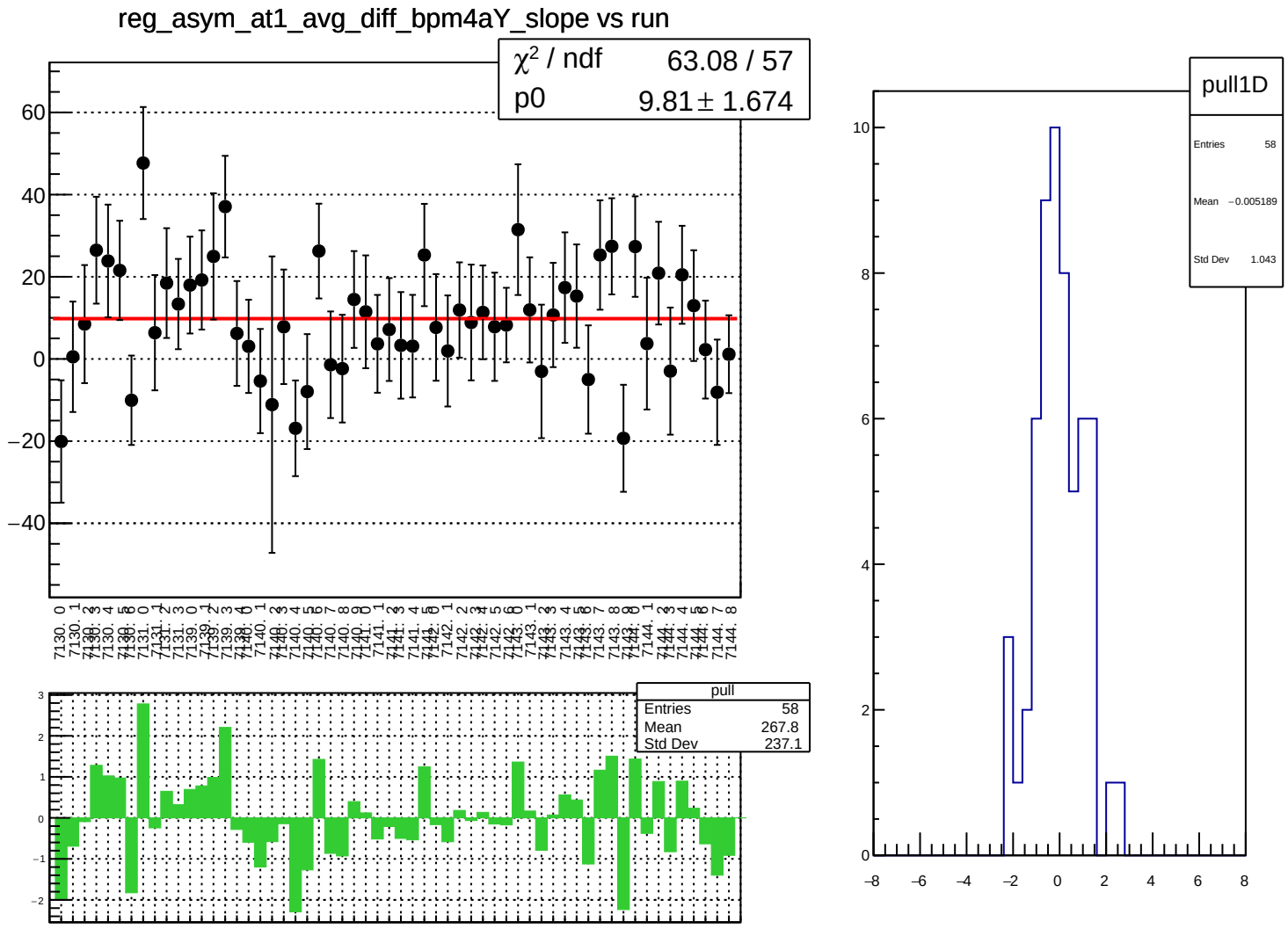

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.58 / 57
p0 −101.9 ± 4.172
pull
Entries 58
Mean 44.55
Std Dev 15.65

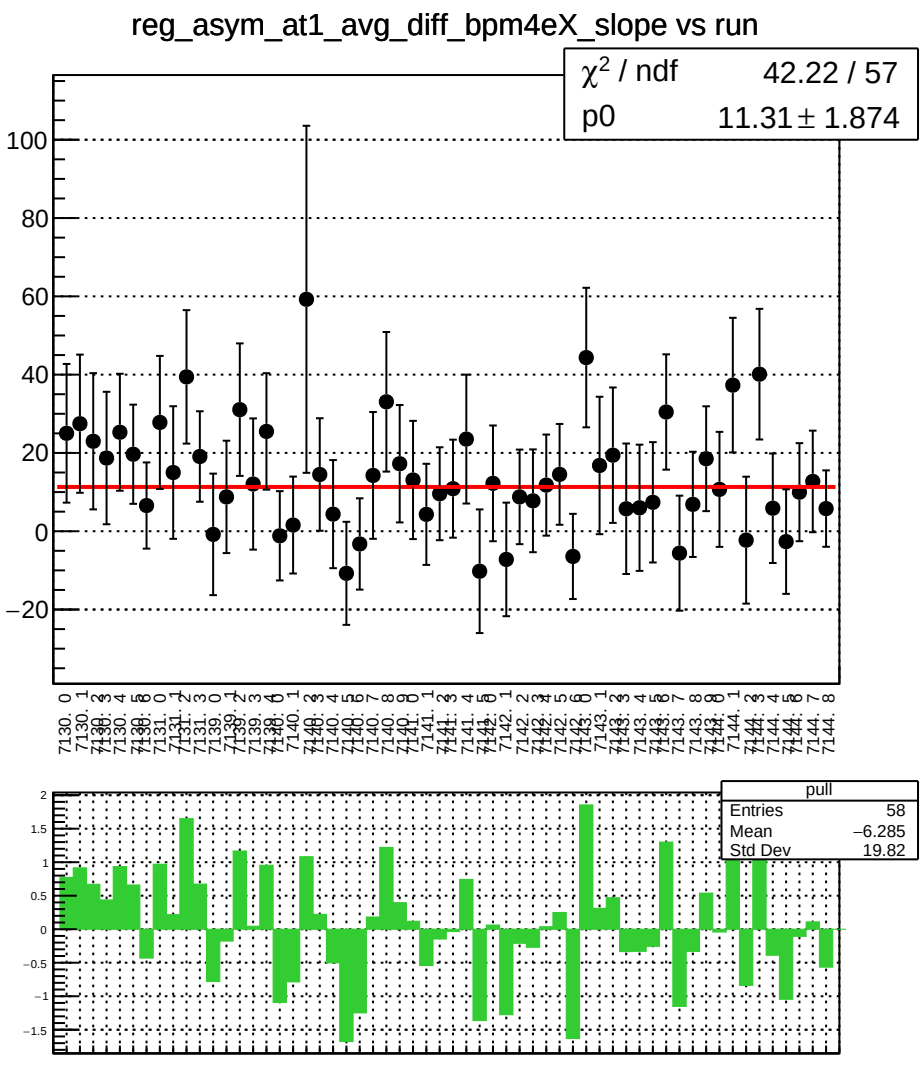

pull1D
Entries 58
Mean 0.02045
Std Dev 0.7017

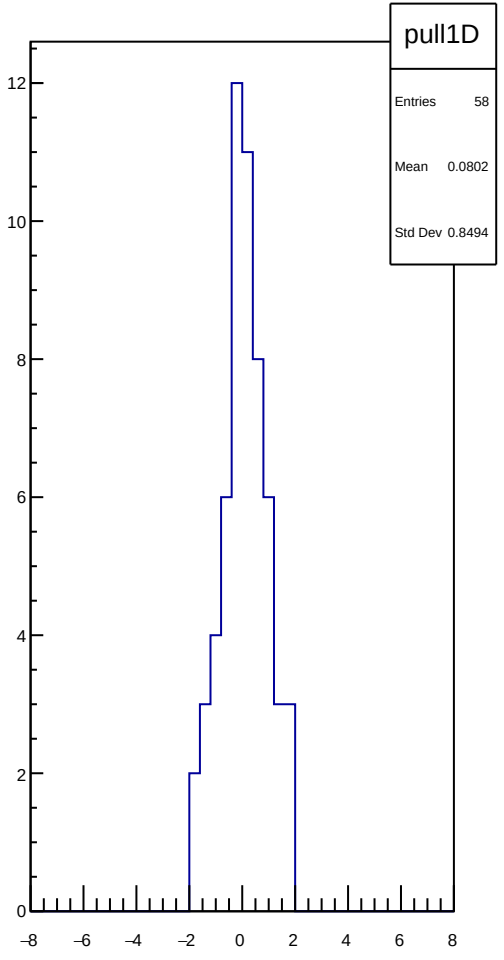

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 13.04 / 57
p0 120.9 ± 0.1945
pull
Entries 58
Mean −385.4
Std Dev 415.8
pull1D
Entries 58
Mean −0.01043
Std Dev 0.4741

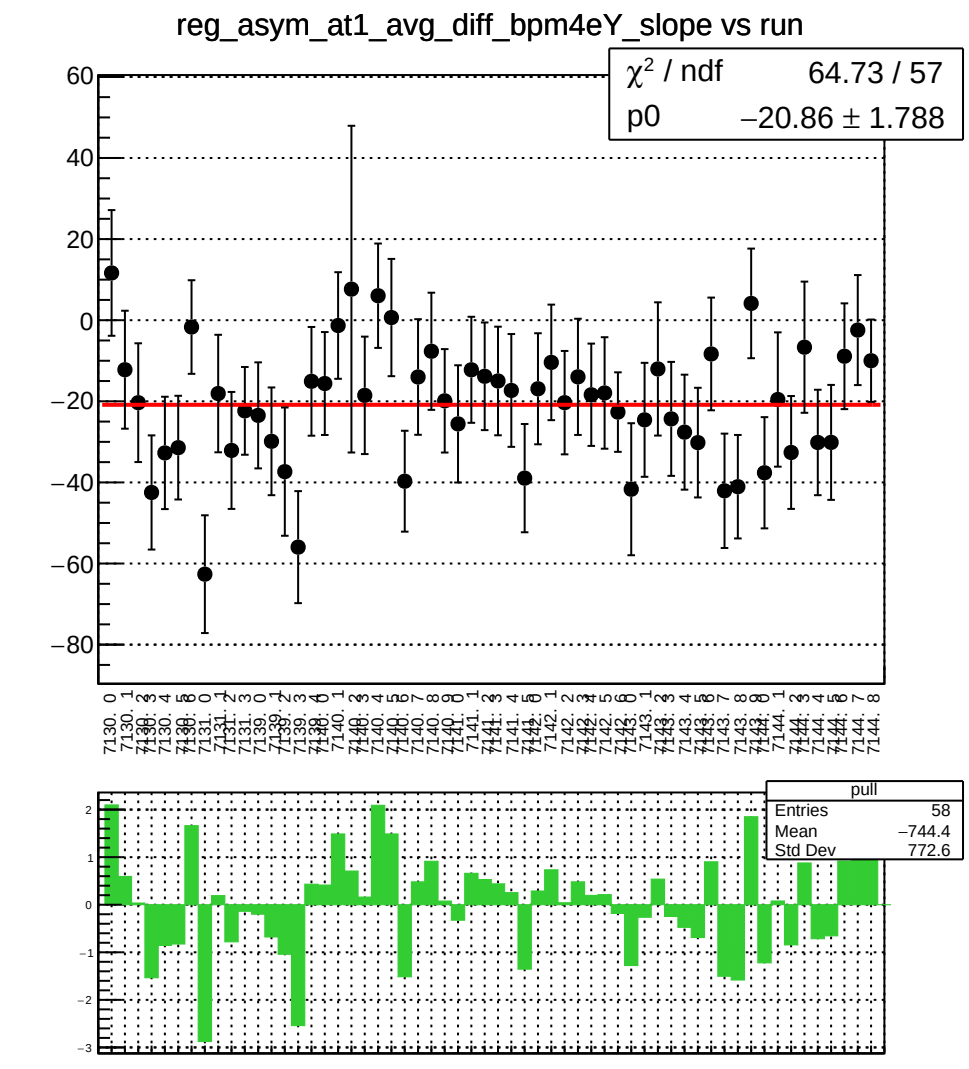

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 41.22 / 57
p0 −22.09 ± 1.841
pull
Entries 58
Mean −1.355
Std Dev 10.46

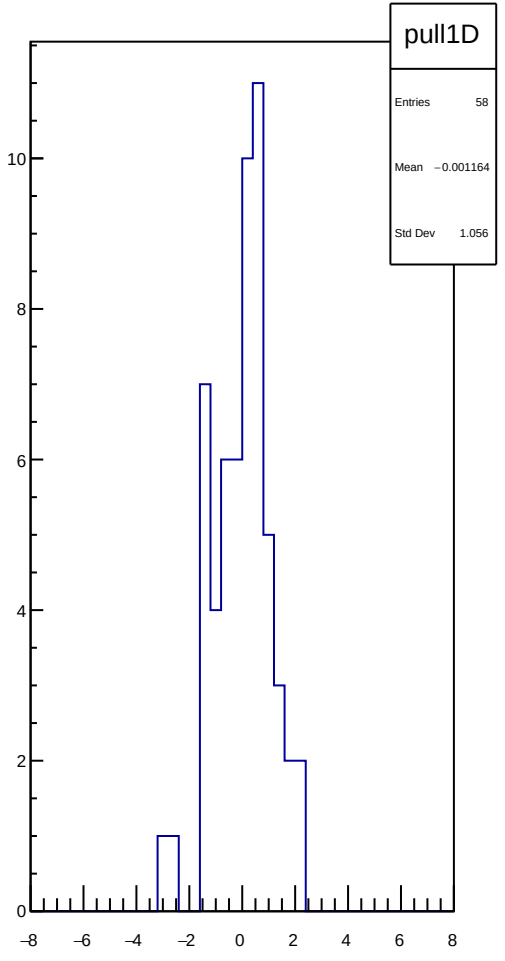

pull1D
Entries 58
Mean −0.07703
Std Dev 0.8395

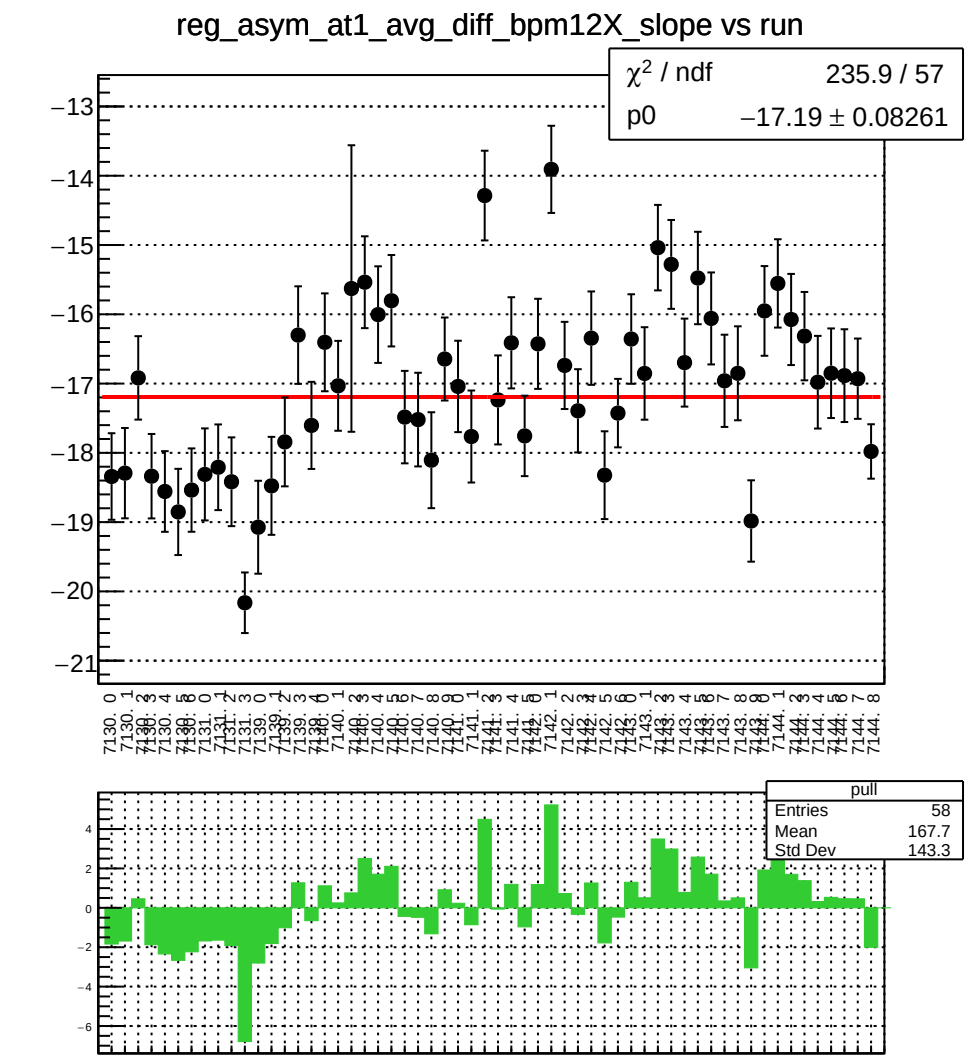

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 63.08 / 57
p0 9.81 ± 1.674
pull
Entries 58
Mean 267.8
Std Dev 237.1
pull1D
Entries 58
Mean −0.005189
Std Dev 1.043

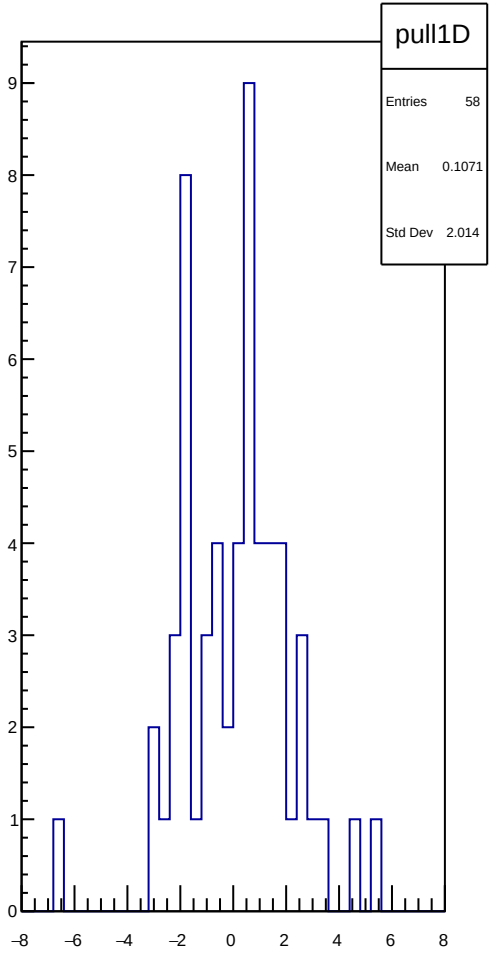

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.22 / 57
p0 11.31 ± 1.874
pull
Entries 58
Mean −6.285
Std Dev 19.82

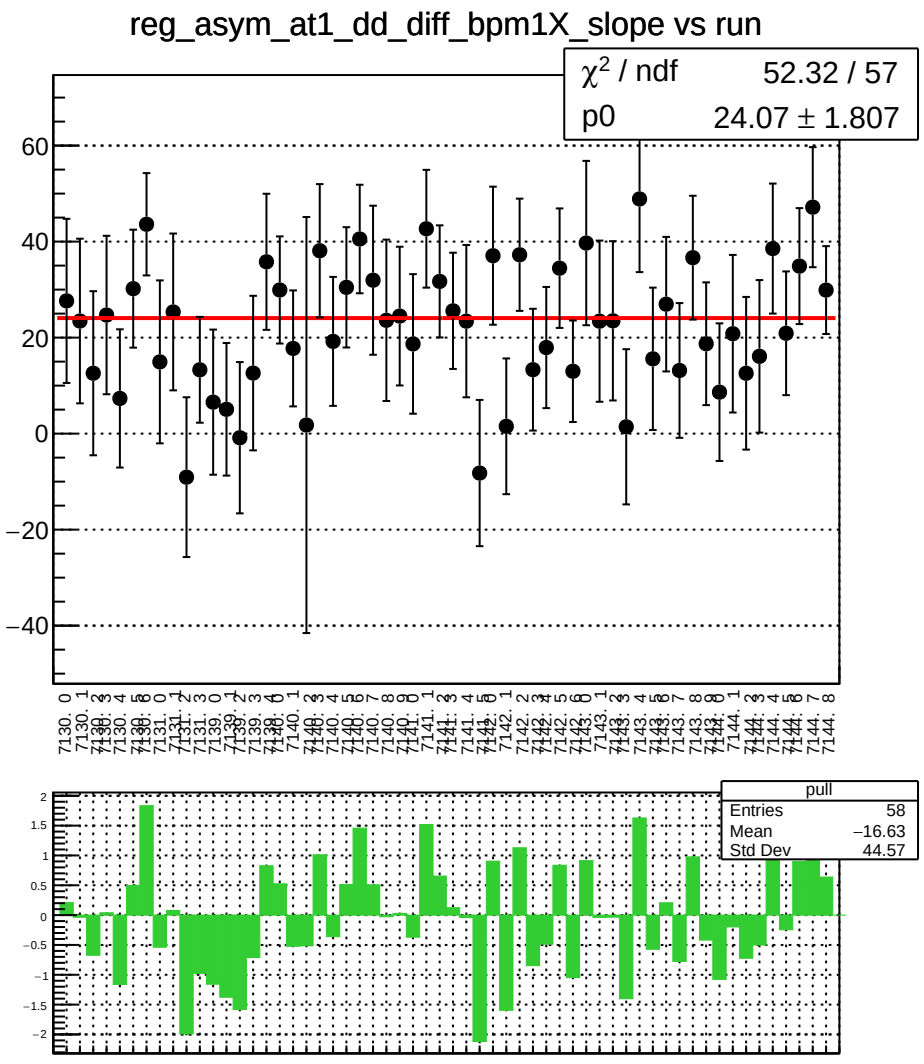

pull1D
Entries 58
Mean 0.0802
Std Dev 0.8494

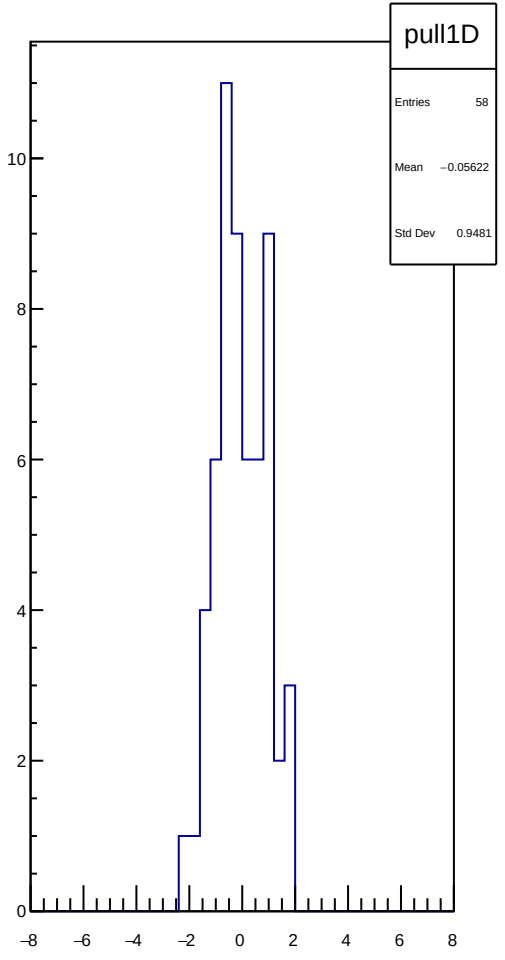

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 64.73 / 57
p0 −20.86 ± 1.788
pull
Entries 58
Mean −744.4
Std Dev 772.6

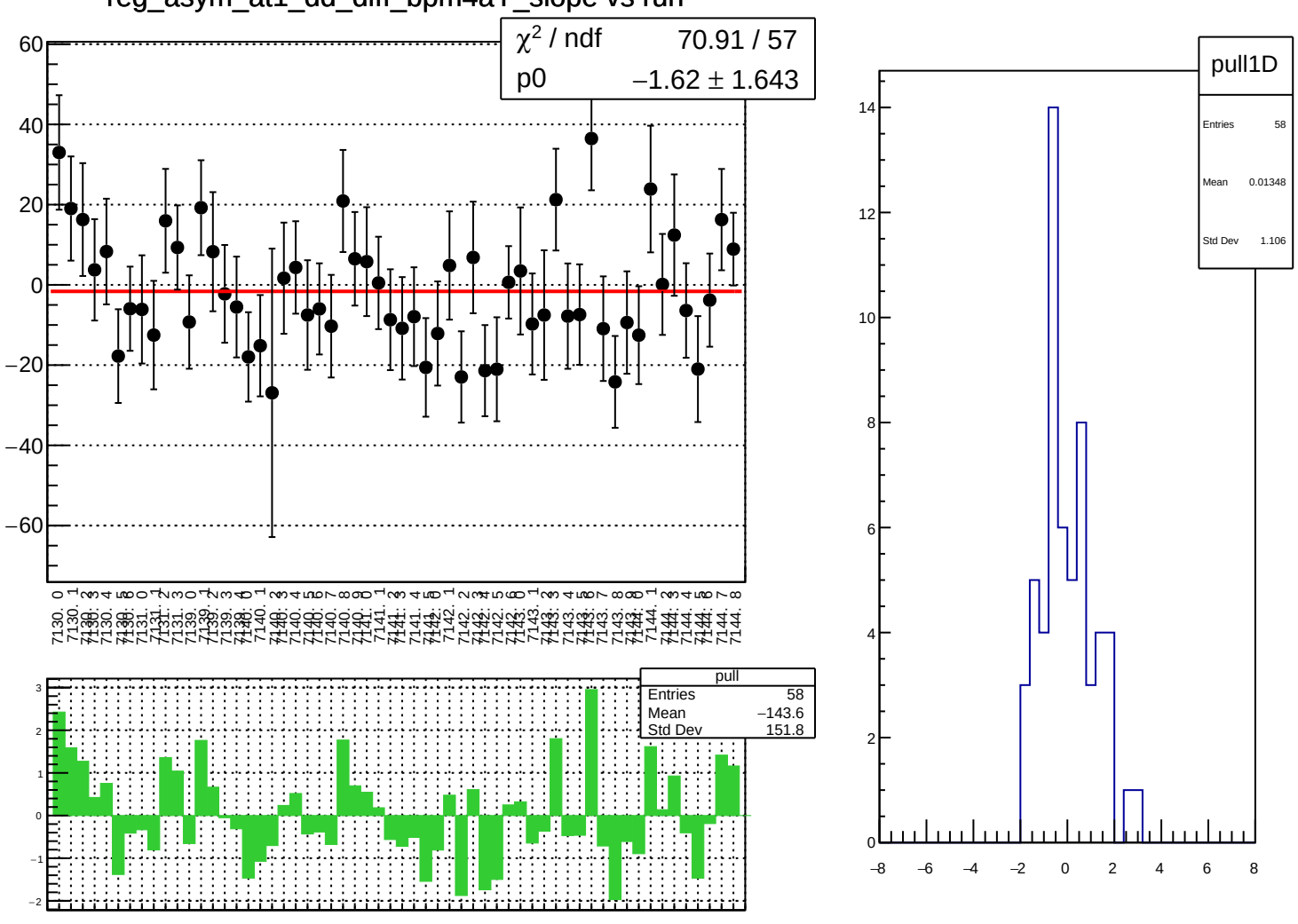

pull1D
Entries 58
Mean −0.001164
Std Dev 1.056

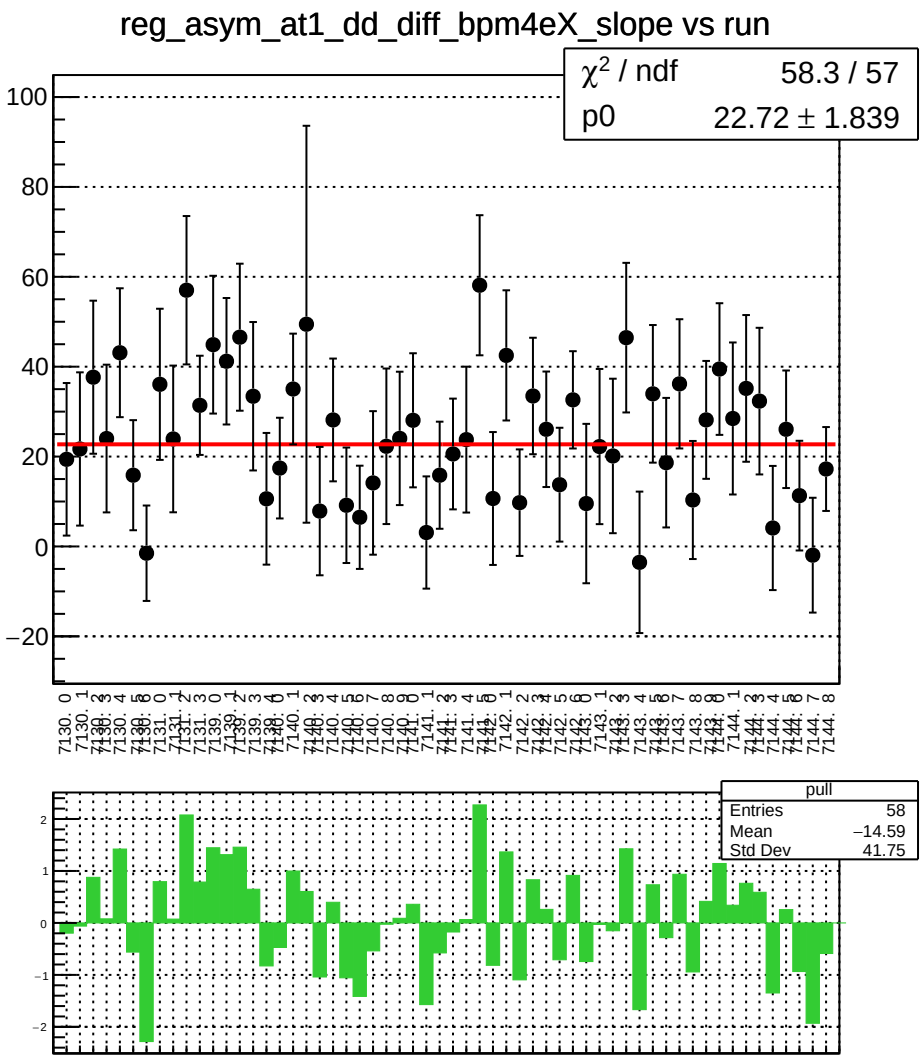

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 235.9 / 57
p0 −17.19 ± 0.08261
pull
Entries 58
Mean 167.7
Std Dev 143.3

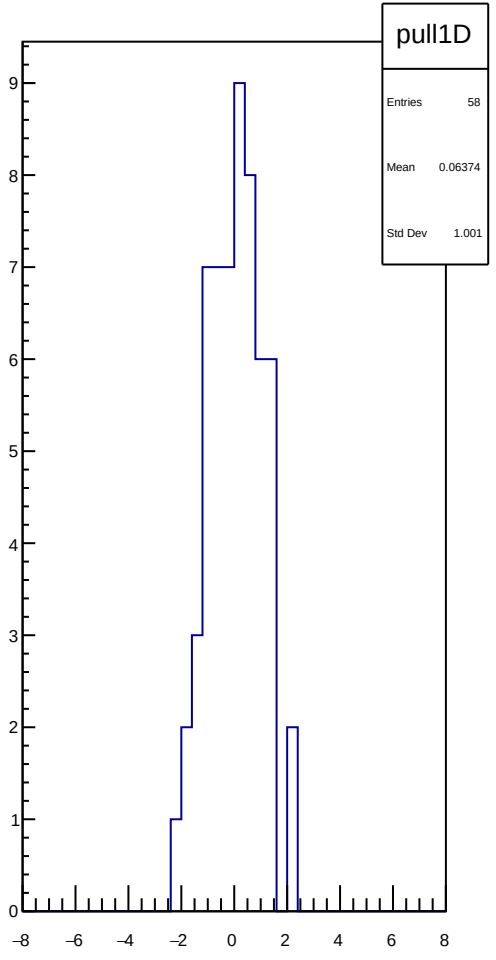

pull1D
Entries 58
Mean 0.1071
Std Dev 2.014

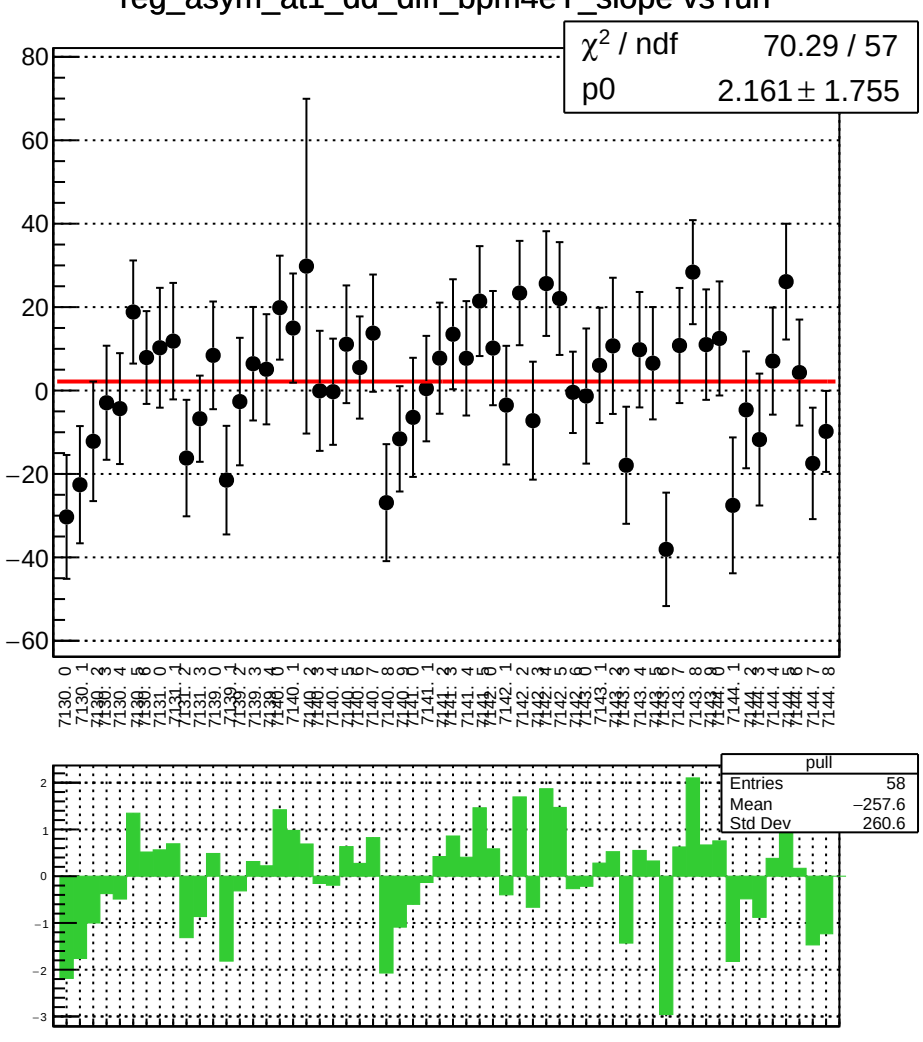

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ^2 / ndf 52.32 / 57
p0 24.07 ± 1.807
pull
Entries 58
Mean −16.63
Std Dev 44.57

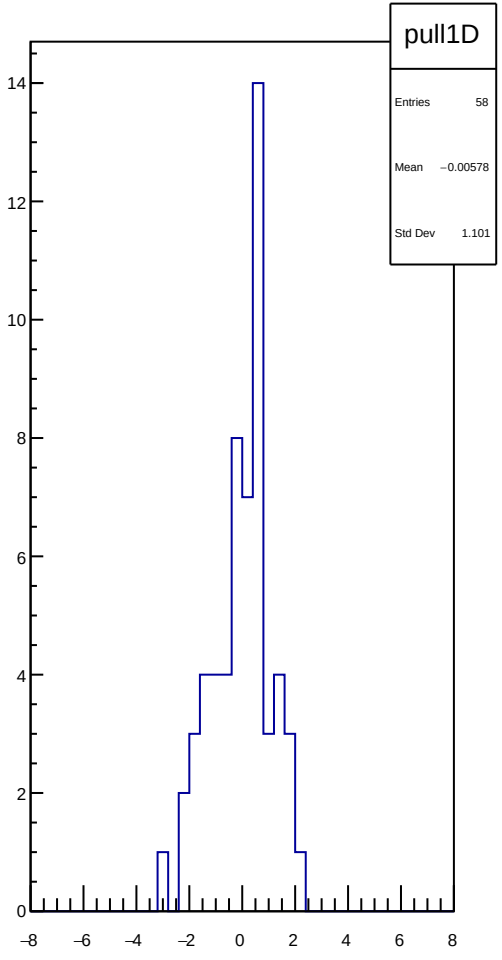

pull1D
Entries 58
Mean −0.05622
Std Dev 0.9481

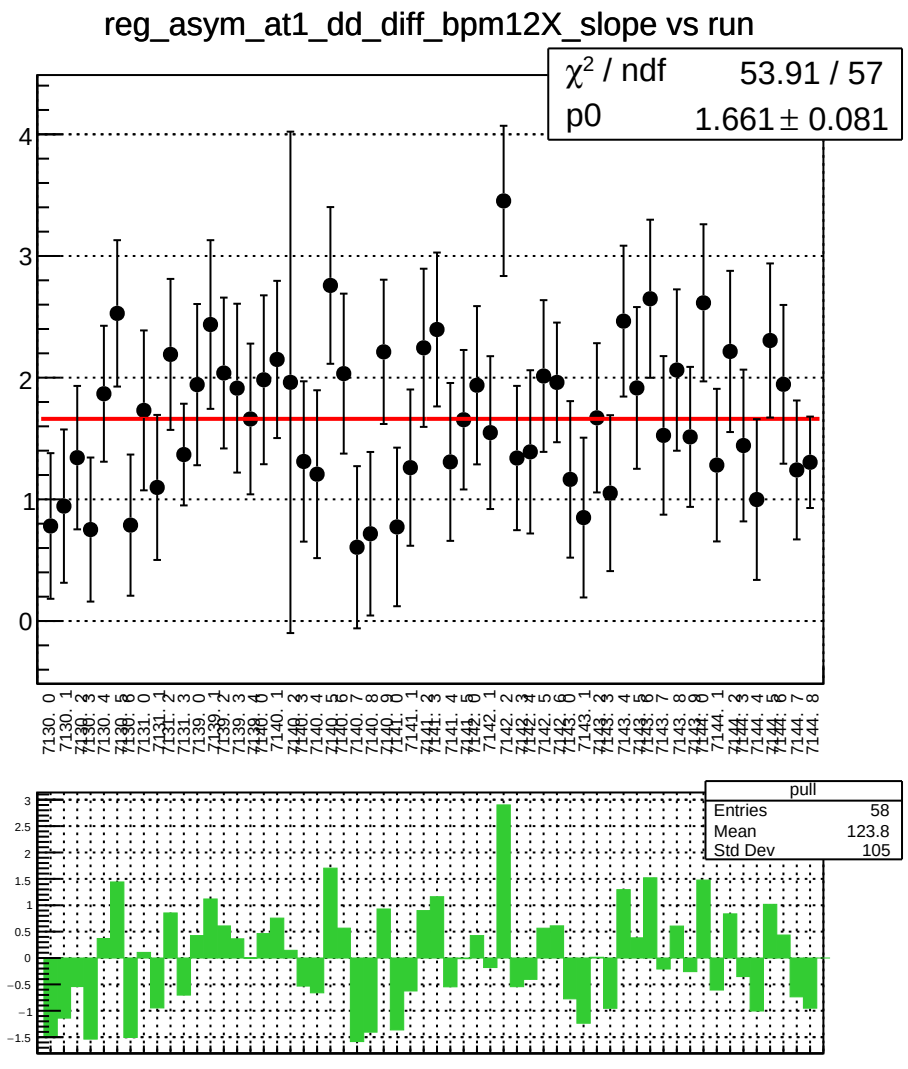

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 70.91 / 57
p0 −1.62 ± 1.643
pull
Entries 58
Mean −143.6
Std Dev 151.8
pull1D
Entries 58
Mean 0.01348
Std Dev 1.106

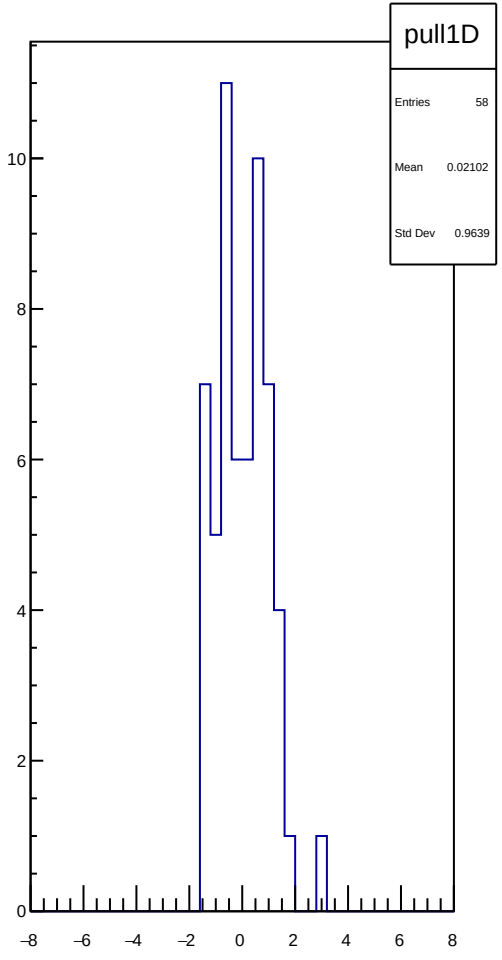

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 58.3 / 57
p0 22.72 ± 1.839
pull
Entries 58
Mean −14.59
Std Dev 41.75

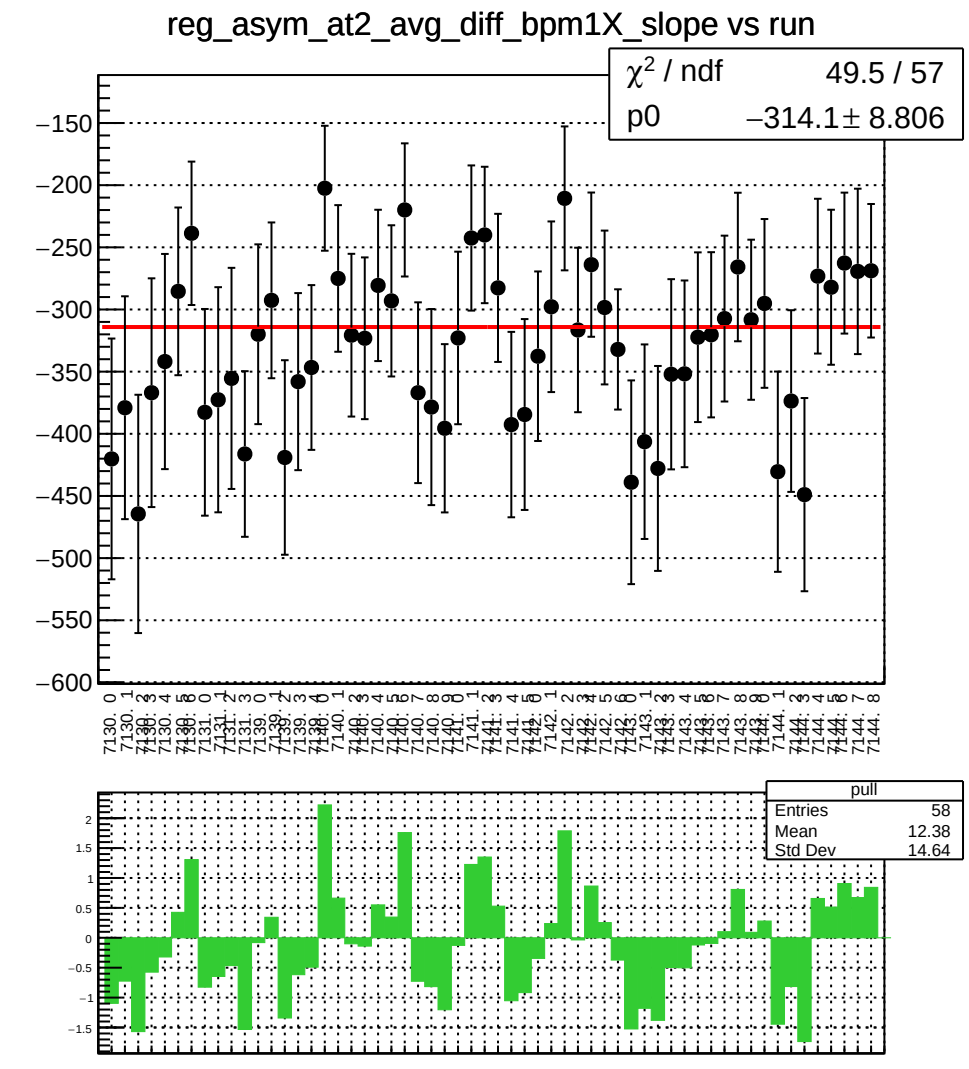

pull1D
Entries 58
Mean 0.06374
Std Dev 1.001

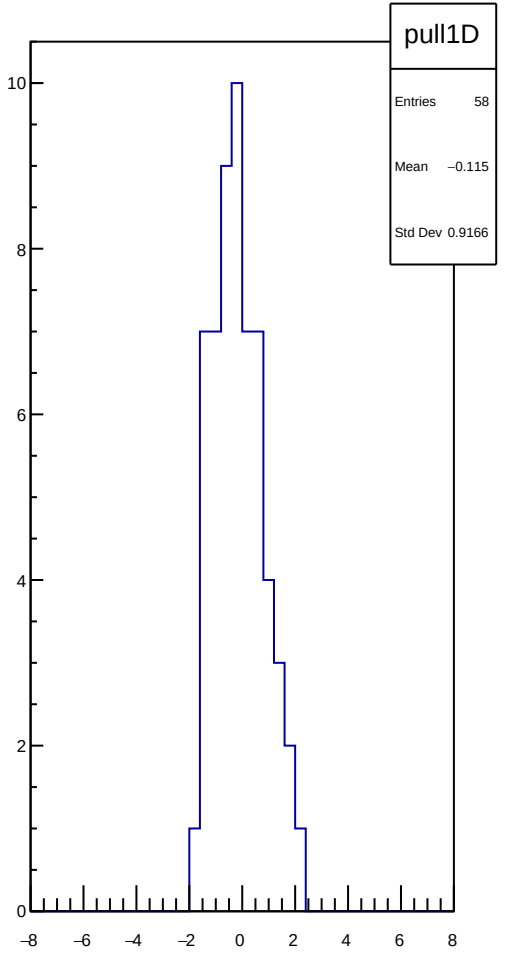

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 70.29 / 57
p0 2.161 ± 1.755
pull
Entries 58
Mean −257.6
Std Dev 260.6

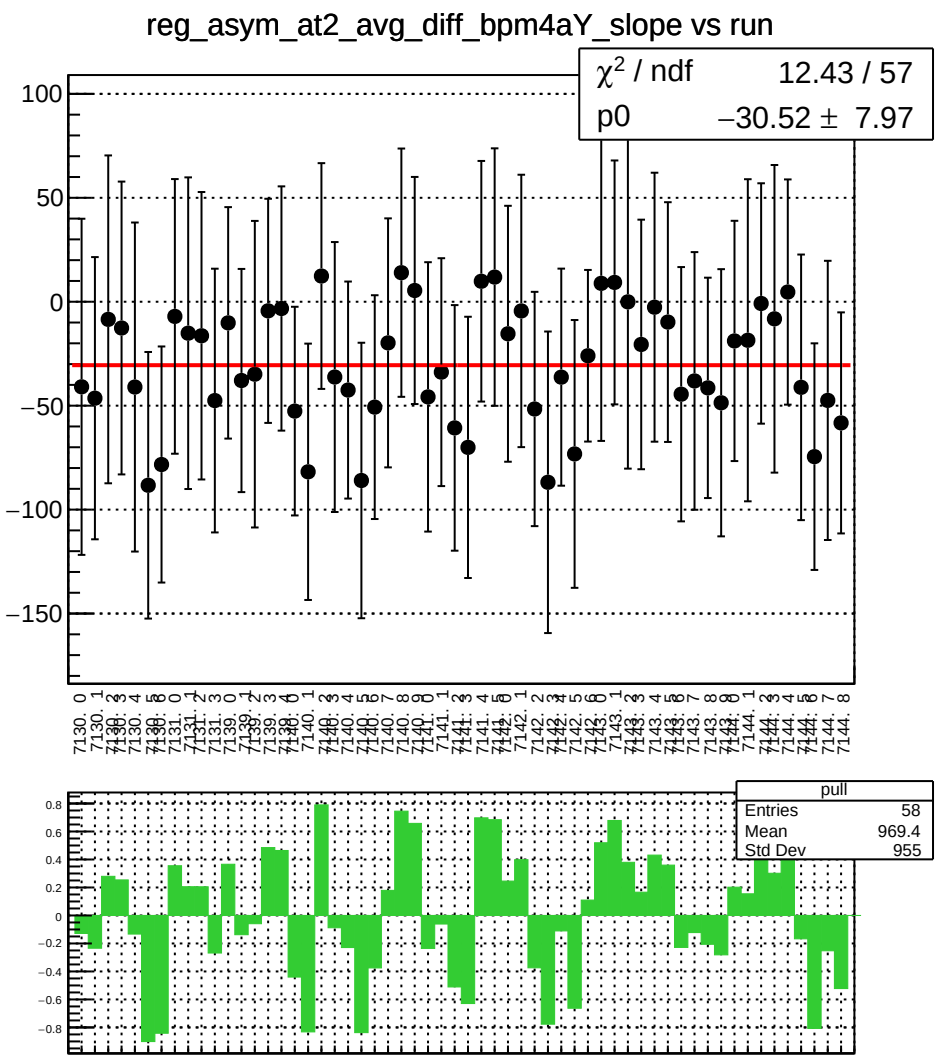

pull1D
Entries 58
Mean −0.00578
Std Dev 1.101

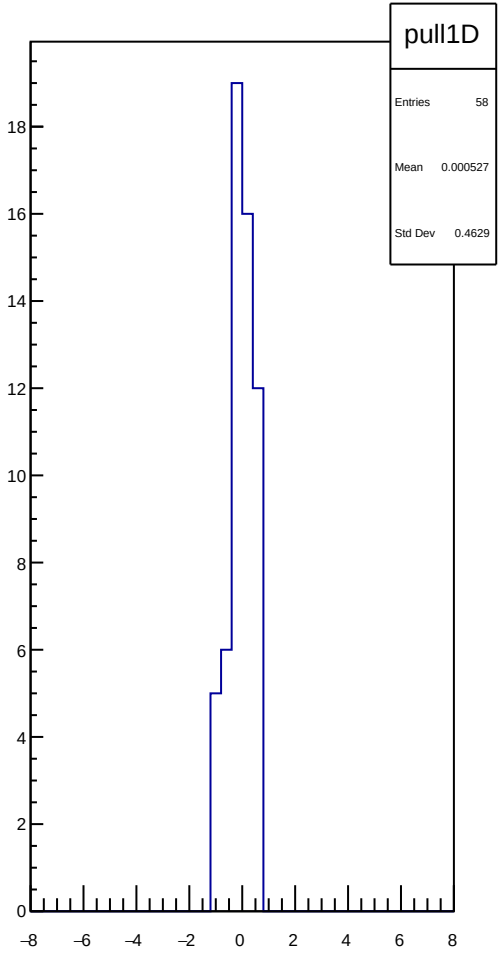

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 53.91 / 57
p0 1.661 ± 0.081
pull
Entries 58
Mean 123.8
Std Dev 105

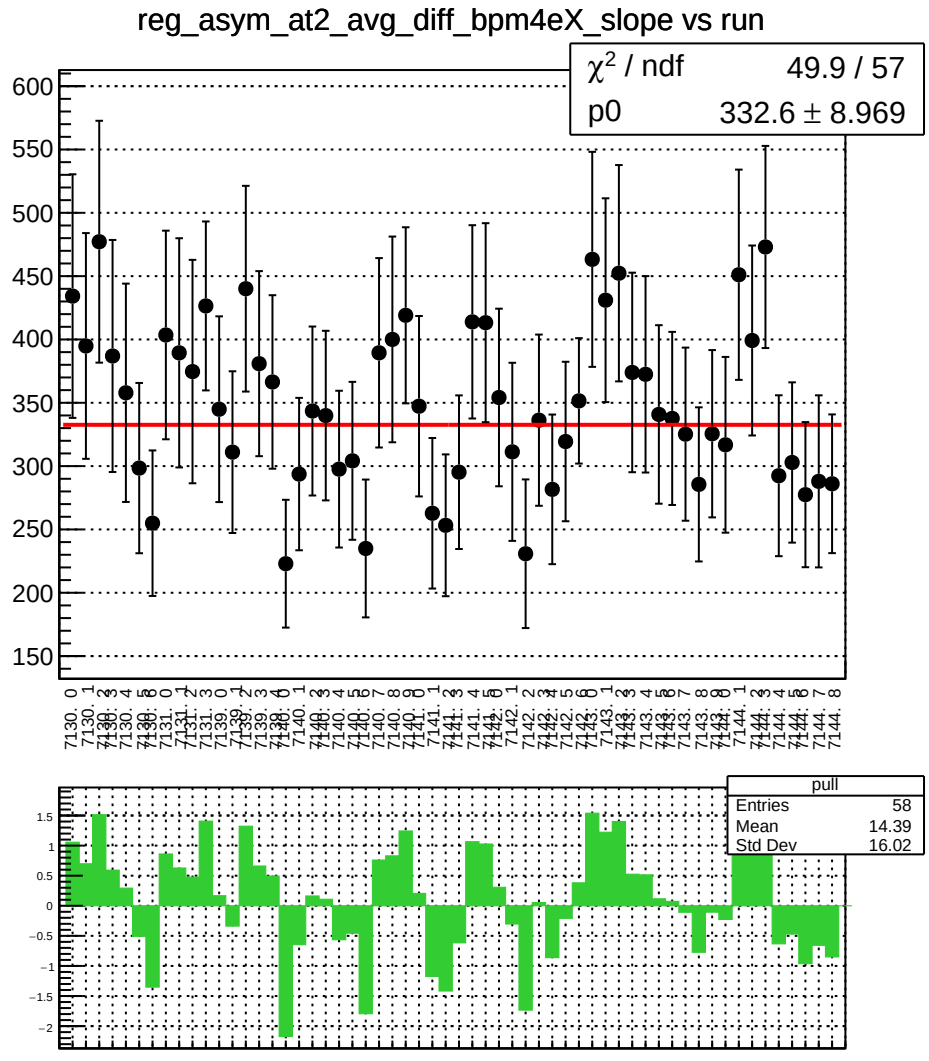

pull1D
Entries 58
Mean 0.02102
Std Dev 0.9639

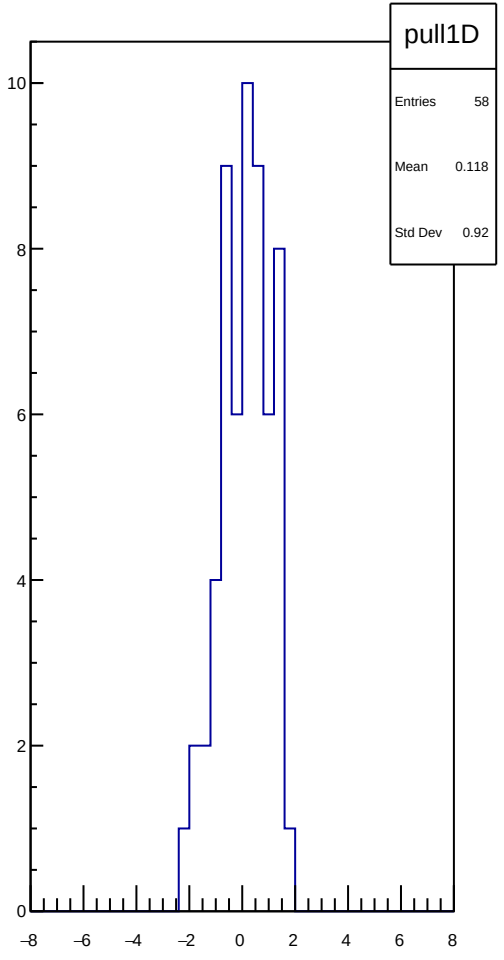

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 49.5 / 57
p0 −314.1 ± 8.806
pull
Entries 58
Mean 12.38
Std Dev 14.64

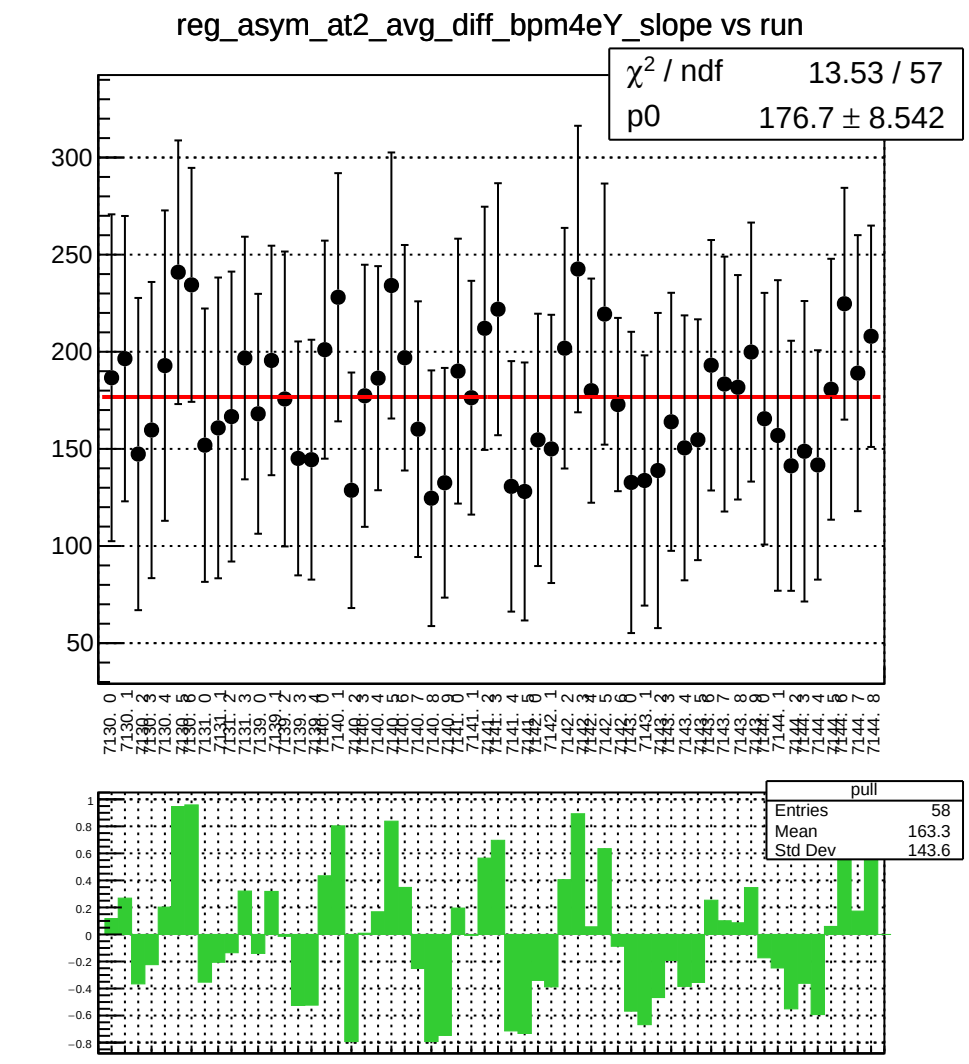

pull1D
Entries 58
Mean −0.115
Std Dev 0.9166

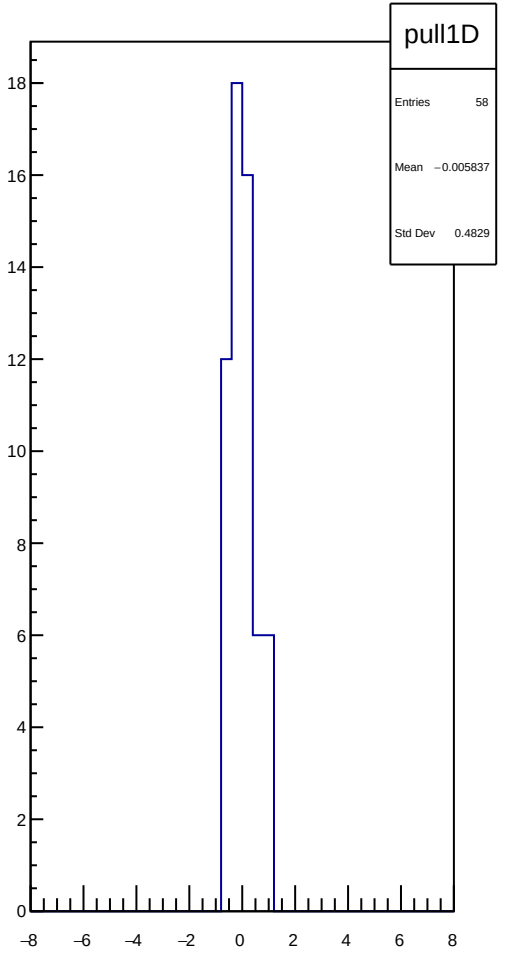

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.43 / 57
p0 −30.52 ± 7.97
pull
Entries 58
Mean 969.4
Std Dev 955

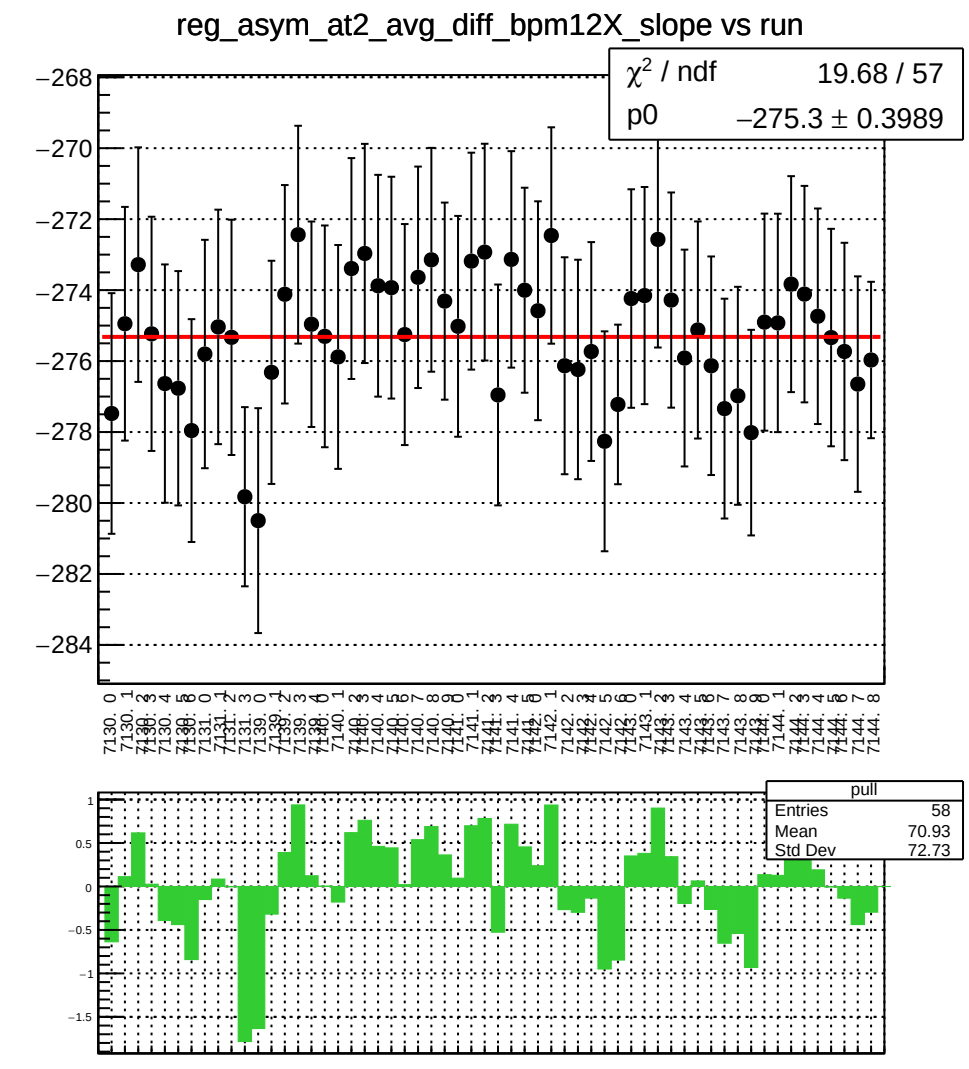

pull1D
Entries 58
Mean 0.000527
Std Dev 0.4629

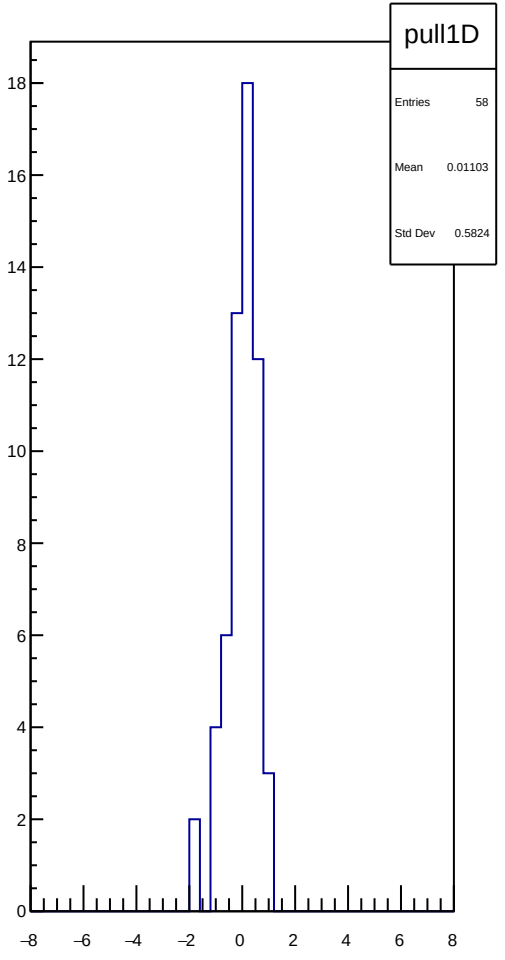

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.9 / 57
p0 332.6 ± 8.969
pull
Entries 58
Mean 14.39
Std Dev 16.02

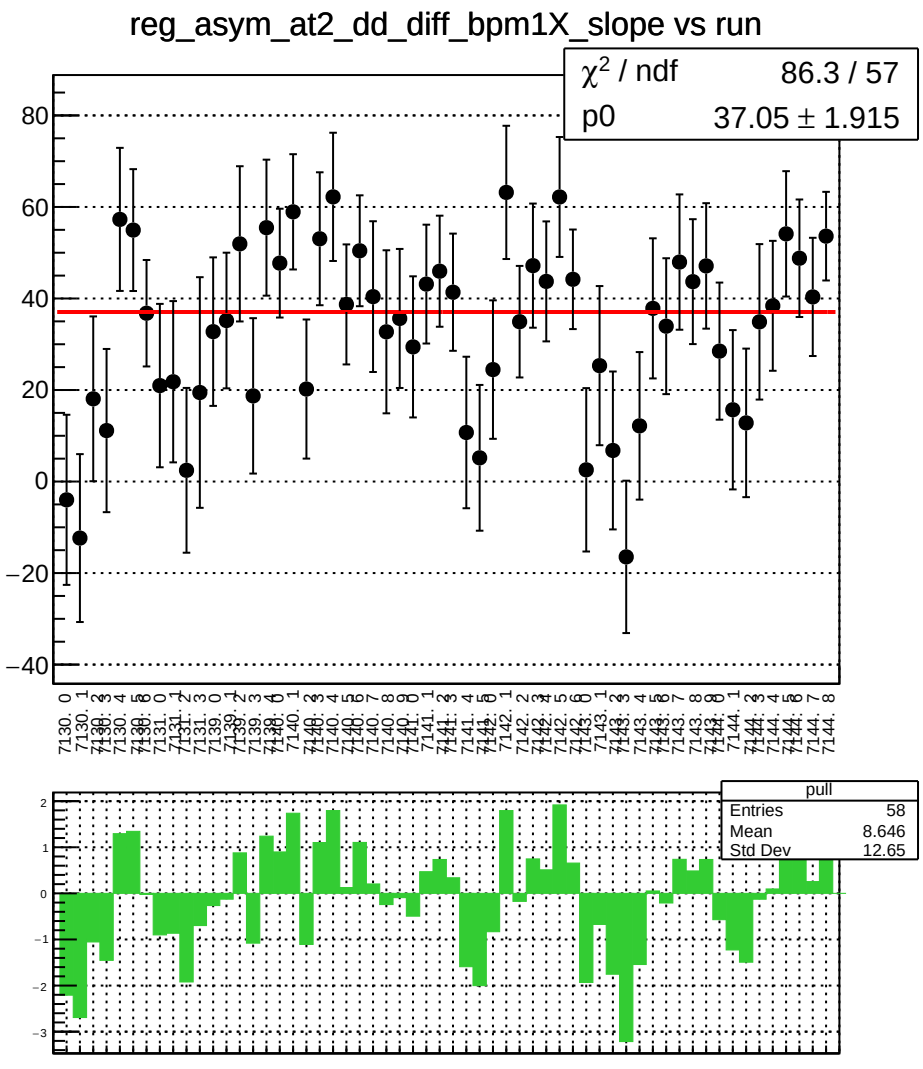

pull1D
Entries 58
Mean 0.118
Std Dev 0.92

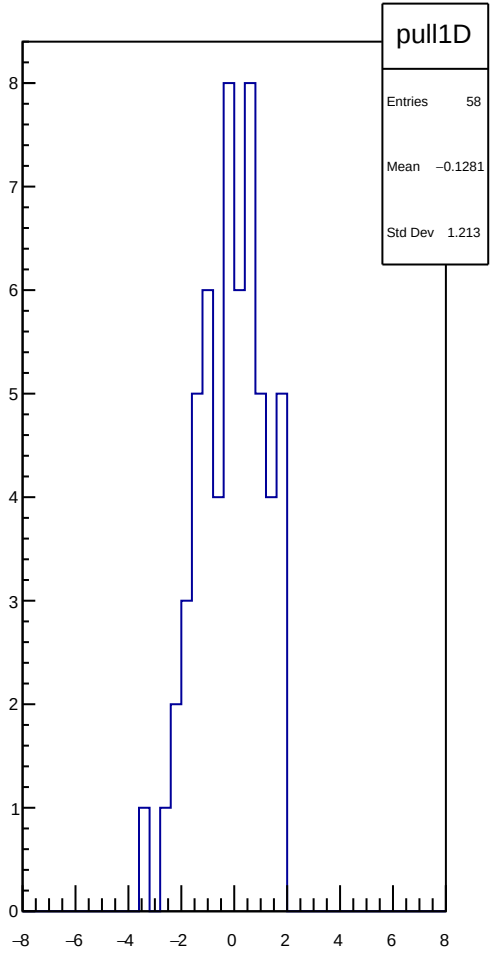

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.53 / 57
p0 176.7 ± 8.542
pull
Entries 58
Mean 163.3
Std Dev 143.6

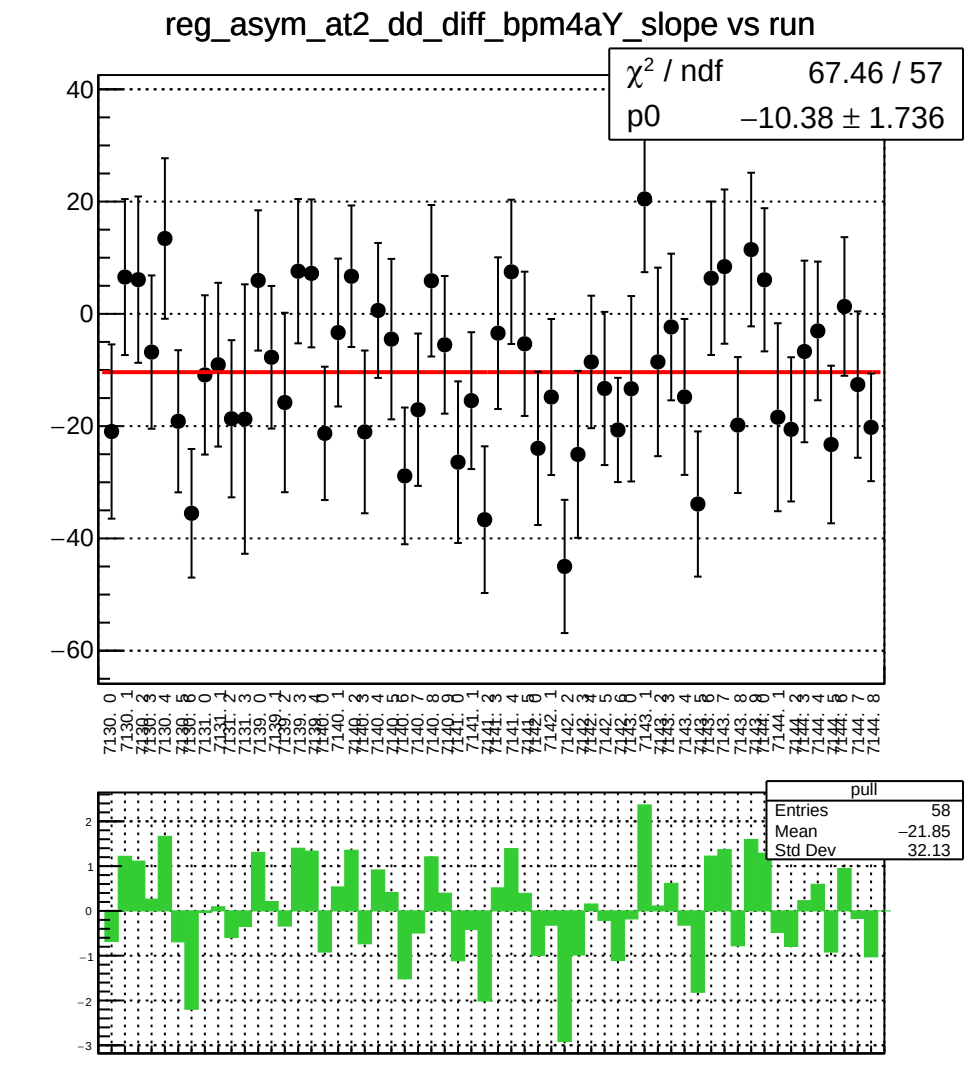

pull1D
Entries 58
Mean −0.005837
Std Dev 0.4829

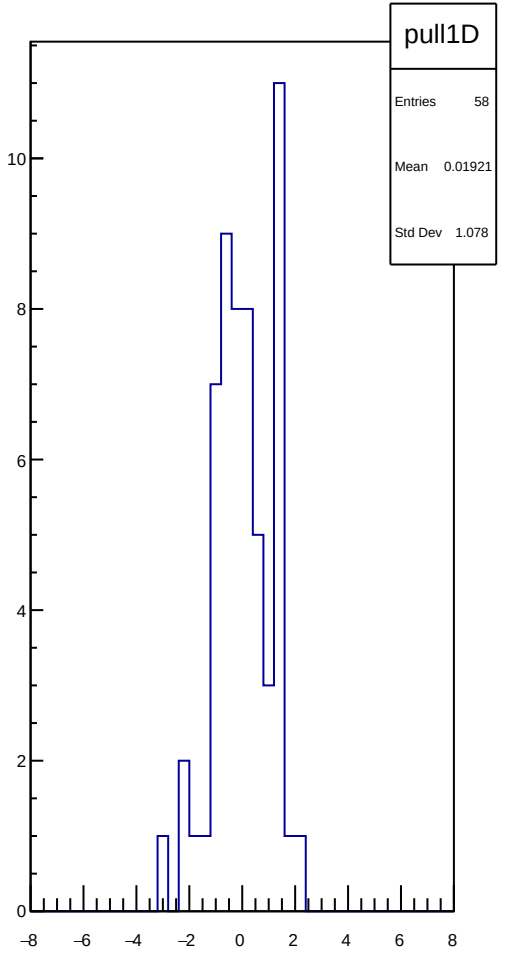

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 19.68 / 57
p0 −275.3 ± 0.3989
pull
Entries 58
Mean 70.93
Std Dev 72.73

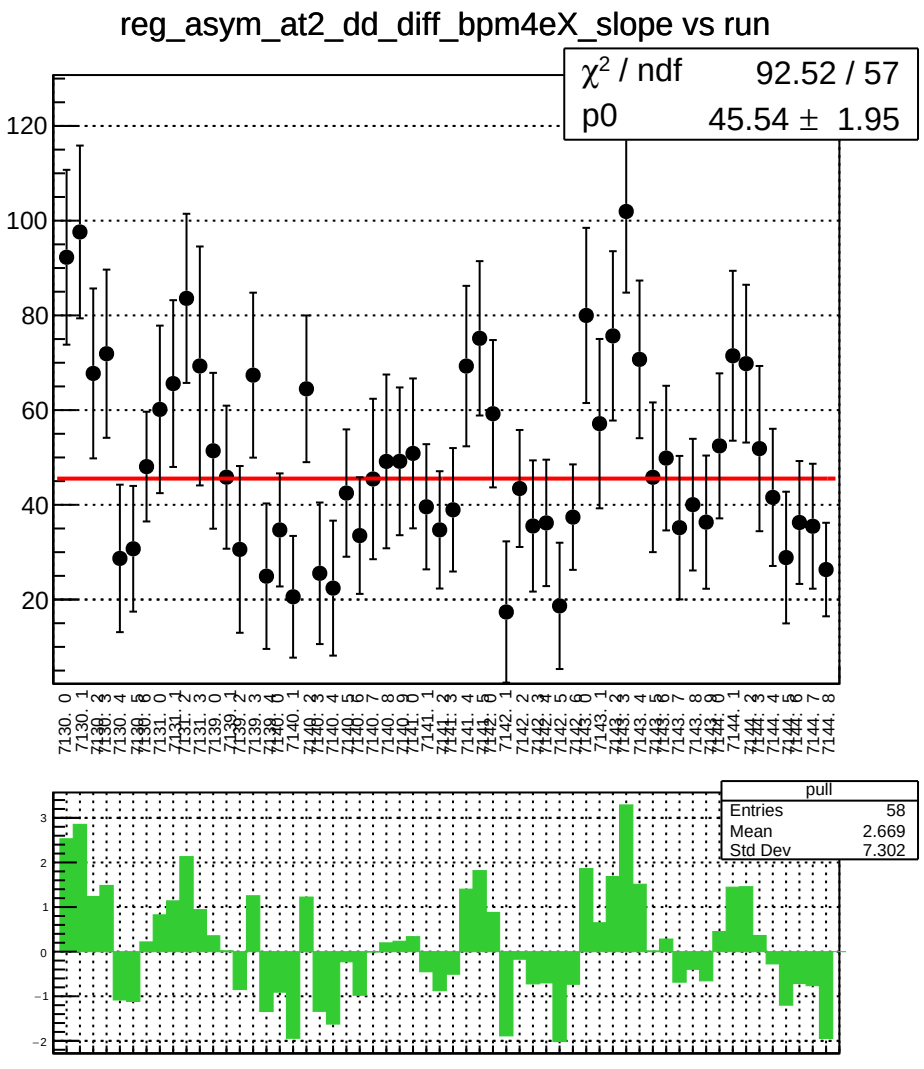

pull1D
Entries 58
Mean 0.01103
Std Dev 0.5824

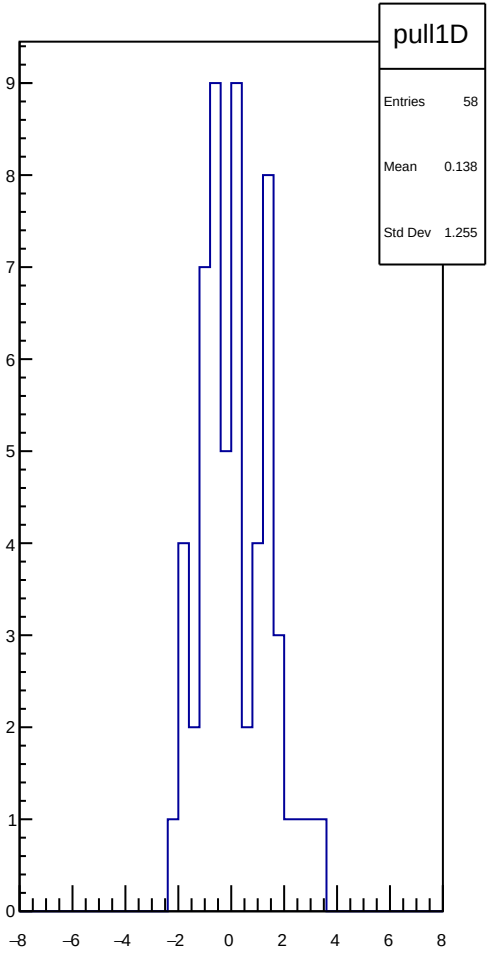

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 86.3 / 57
p0 37.05 ± 1.915
pull
Entries 58
Mean 8.646
Std Dev 12.65

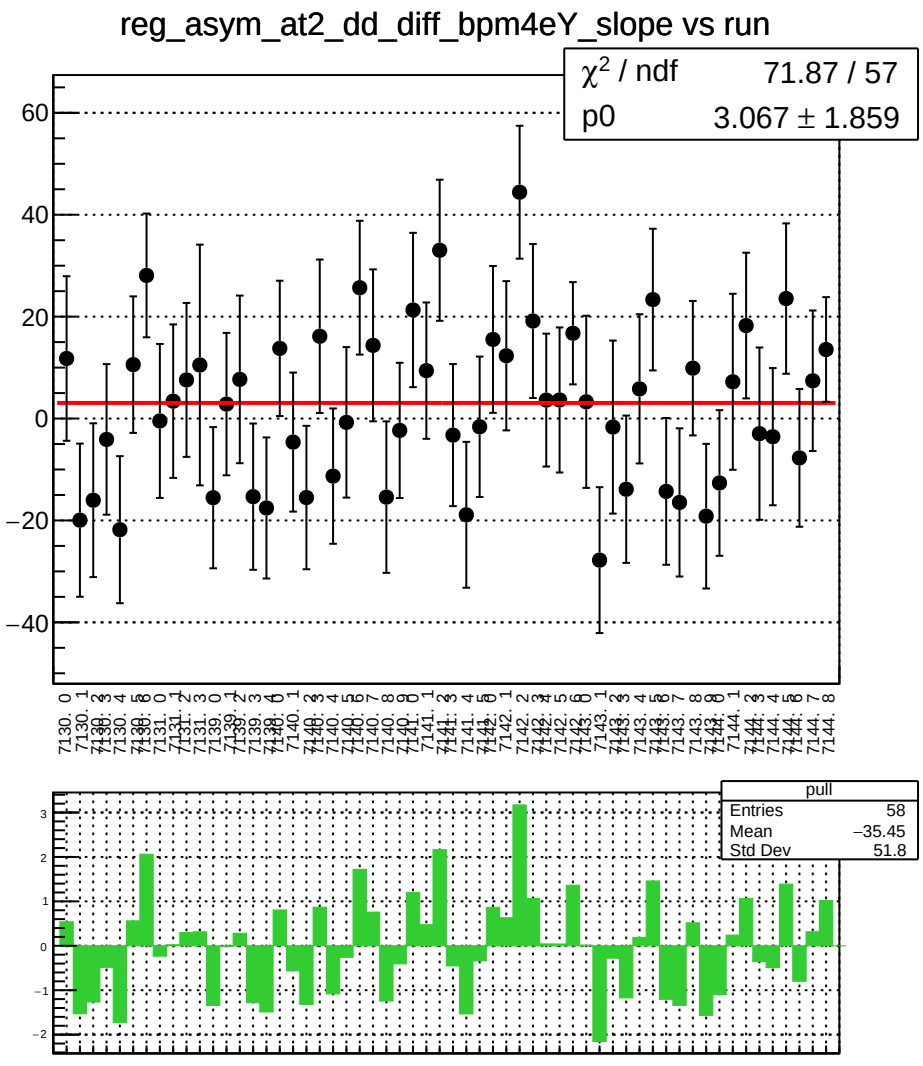

pull1D
Entries 58
Mean −0.1281
Std Dev 1.213

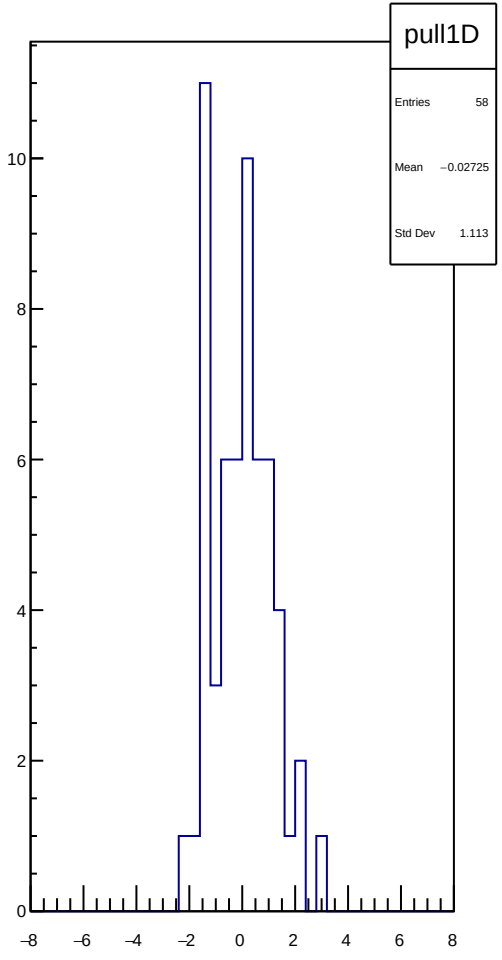

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.46 / 57
p0 −10.38 ± 1.736
pull
Entries 58
Mean −21.85
Std Dev 32.13

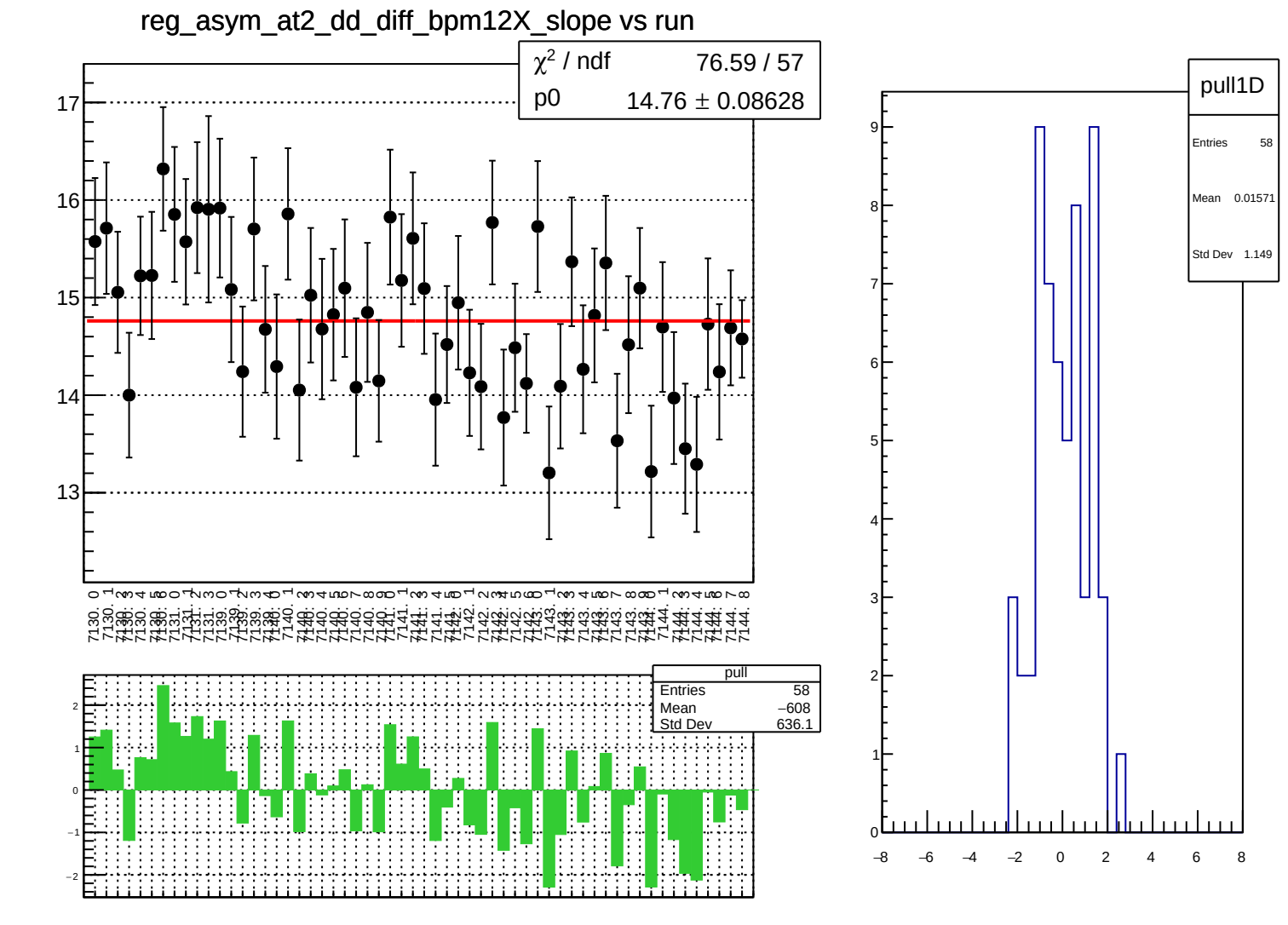

pull1D
Entries 58
Mean 0.01921
Std Dev 1.078

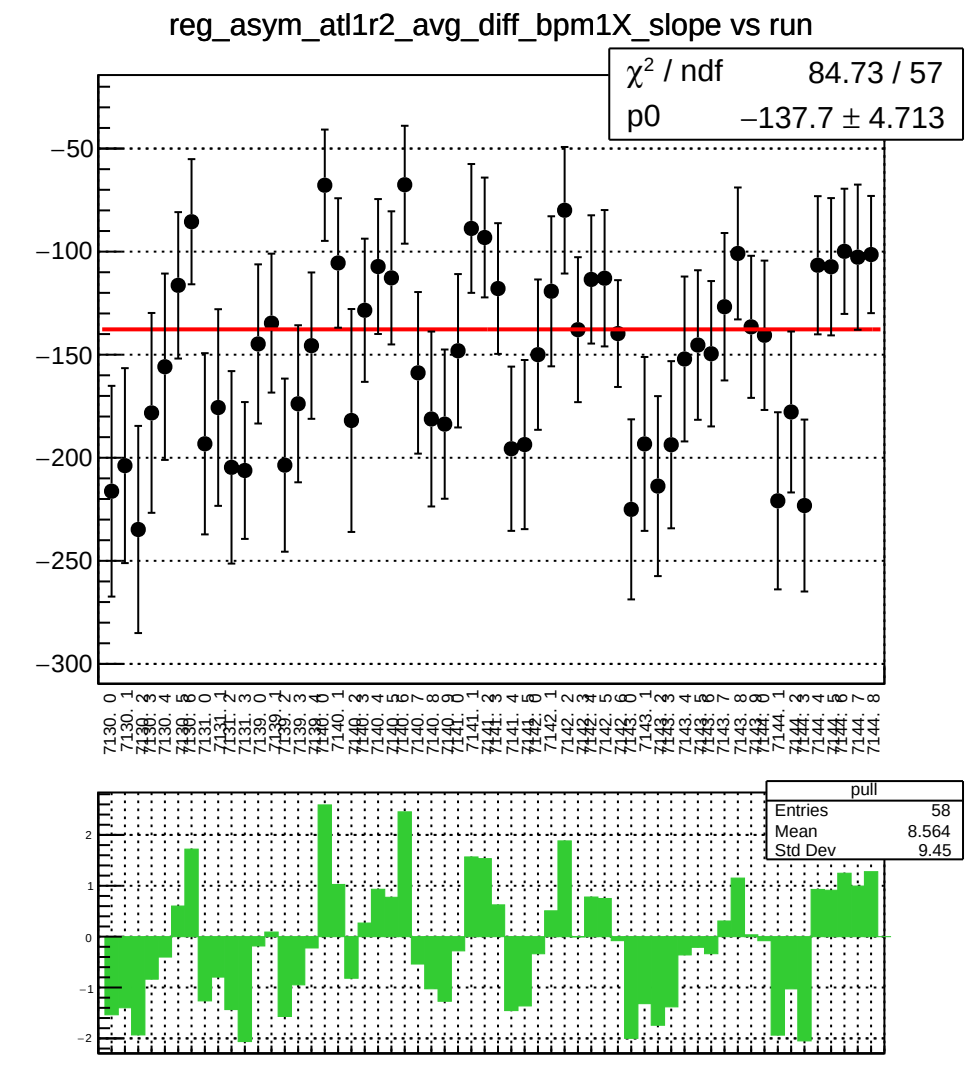

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.52 / 57
p0 45.54 ± 1.95
120
100
80
60
40
20
pull
Entries 58
Mean 2.669
Std Dev 7.302
3
2
1
0
−1
−2

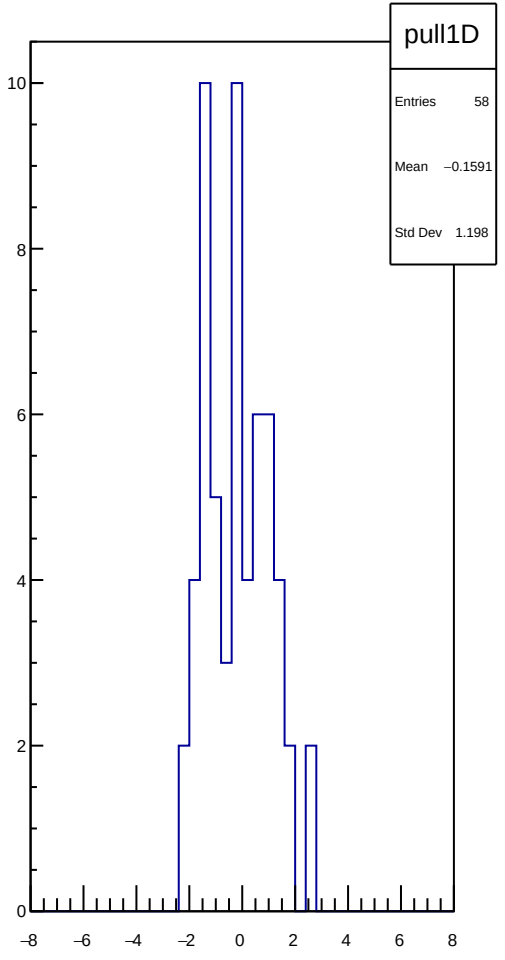

pull1D
Entries 58
Mean 0.138
Std Dev 1.255
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

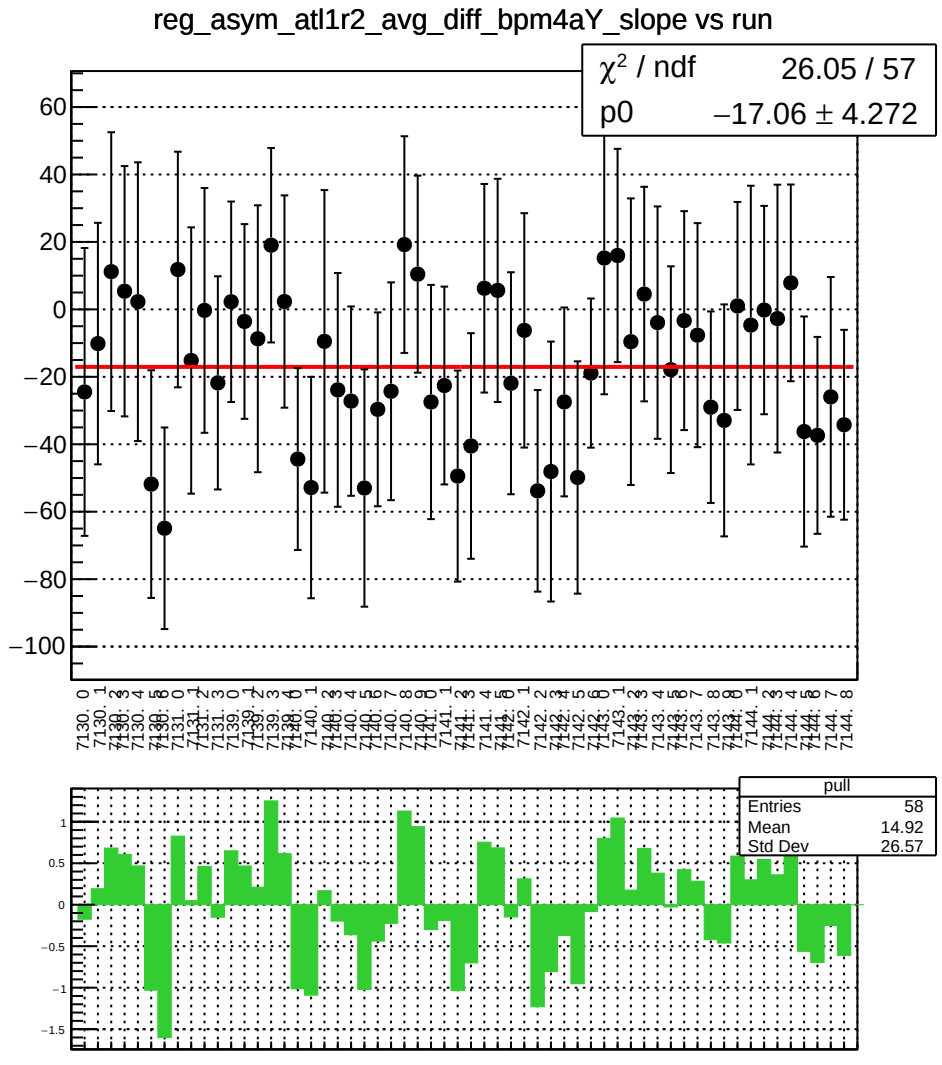

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.87 / 57
p0 3.067 ± 1.859
pull
Entries 58
Mean −35.45
Std Dev 51.8

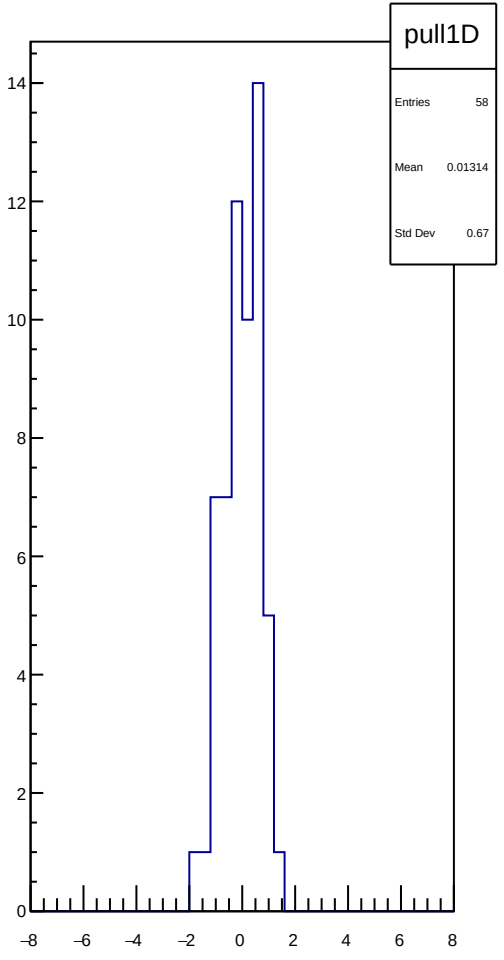

pull1D
Entries 58
Mean −0.02725
Std Dev 1.113

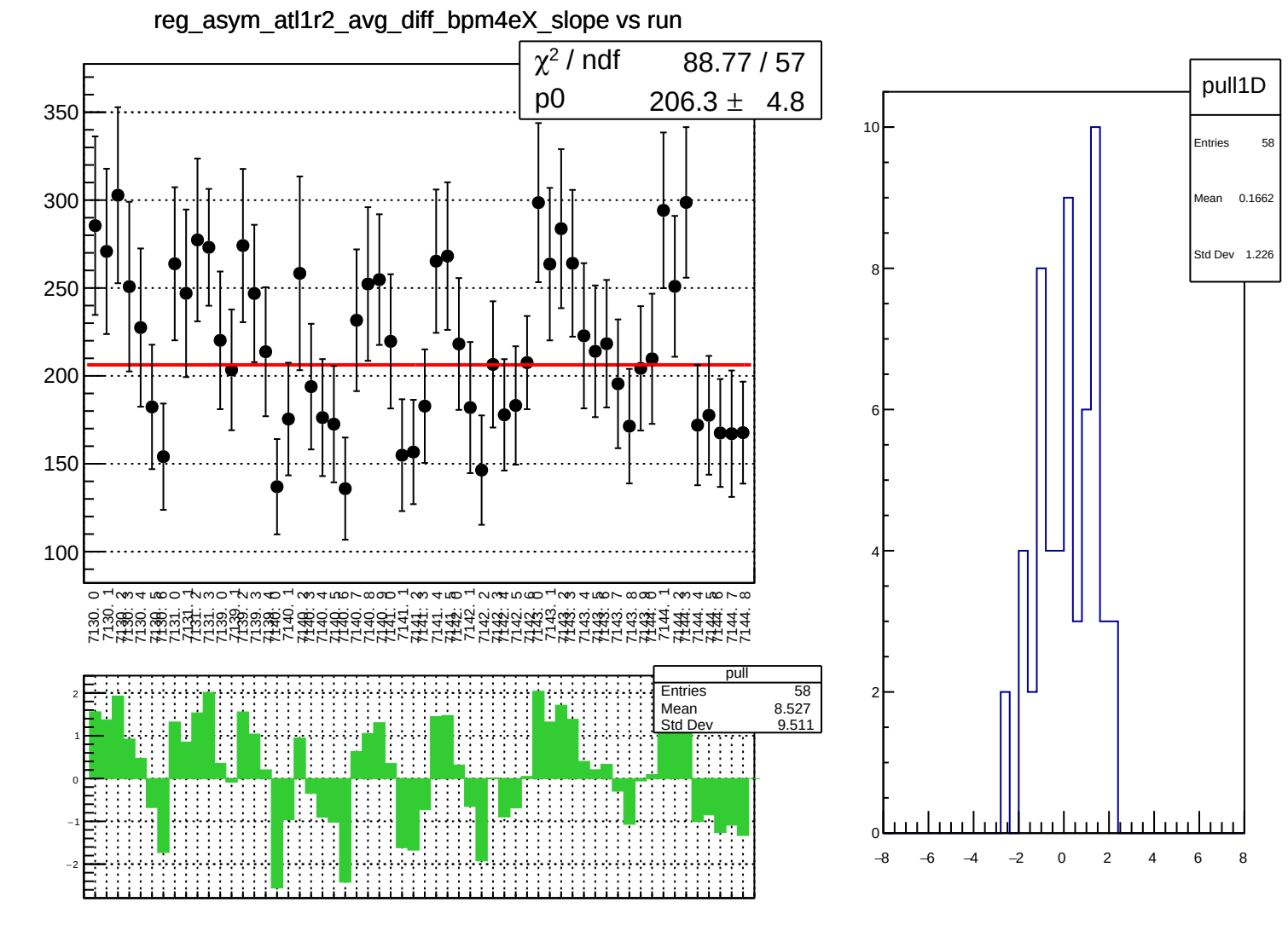

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 76.59 / 57
p0 14.76 ± 0.08628
pull
Entries 58
Mean −608
Std Dev 636.1
pull1D
Entries 58
Mean 0.01571
Std Dev 1.149

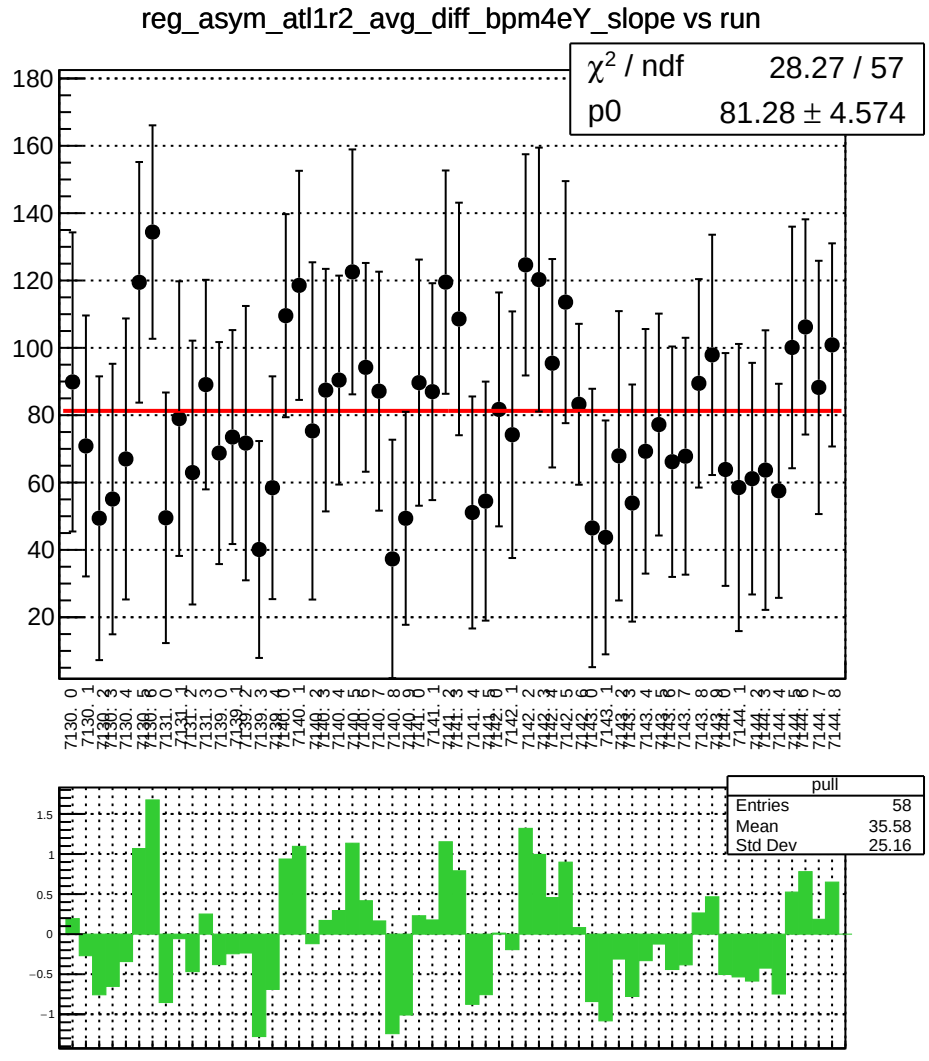

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 84.73 / 57
p0 −137.7 ± 4.713
pull
Entries 58
Mean 8.564
Std Dev 9.45

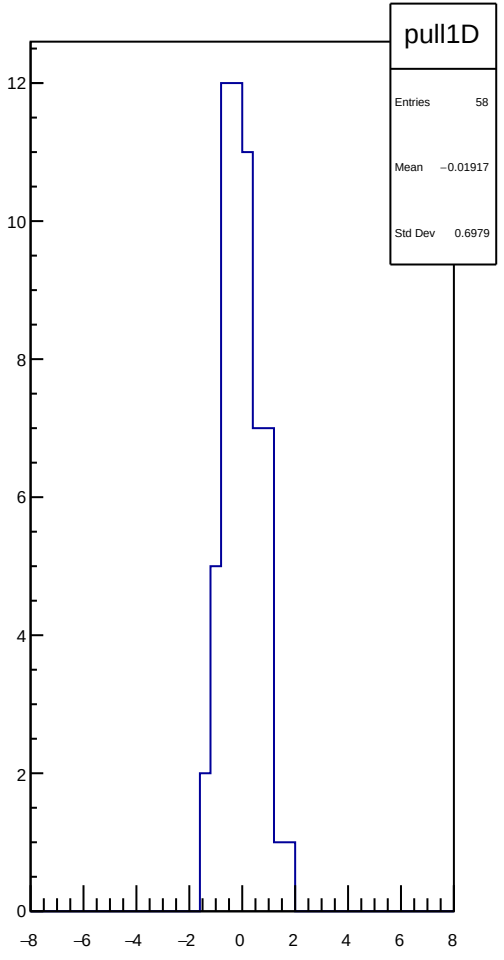

pull1D
Entries 58
Mean −0.1591
Std Dev 1.198

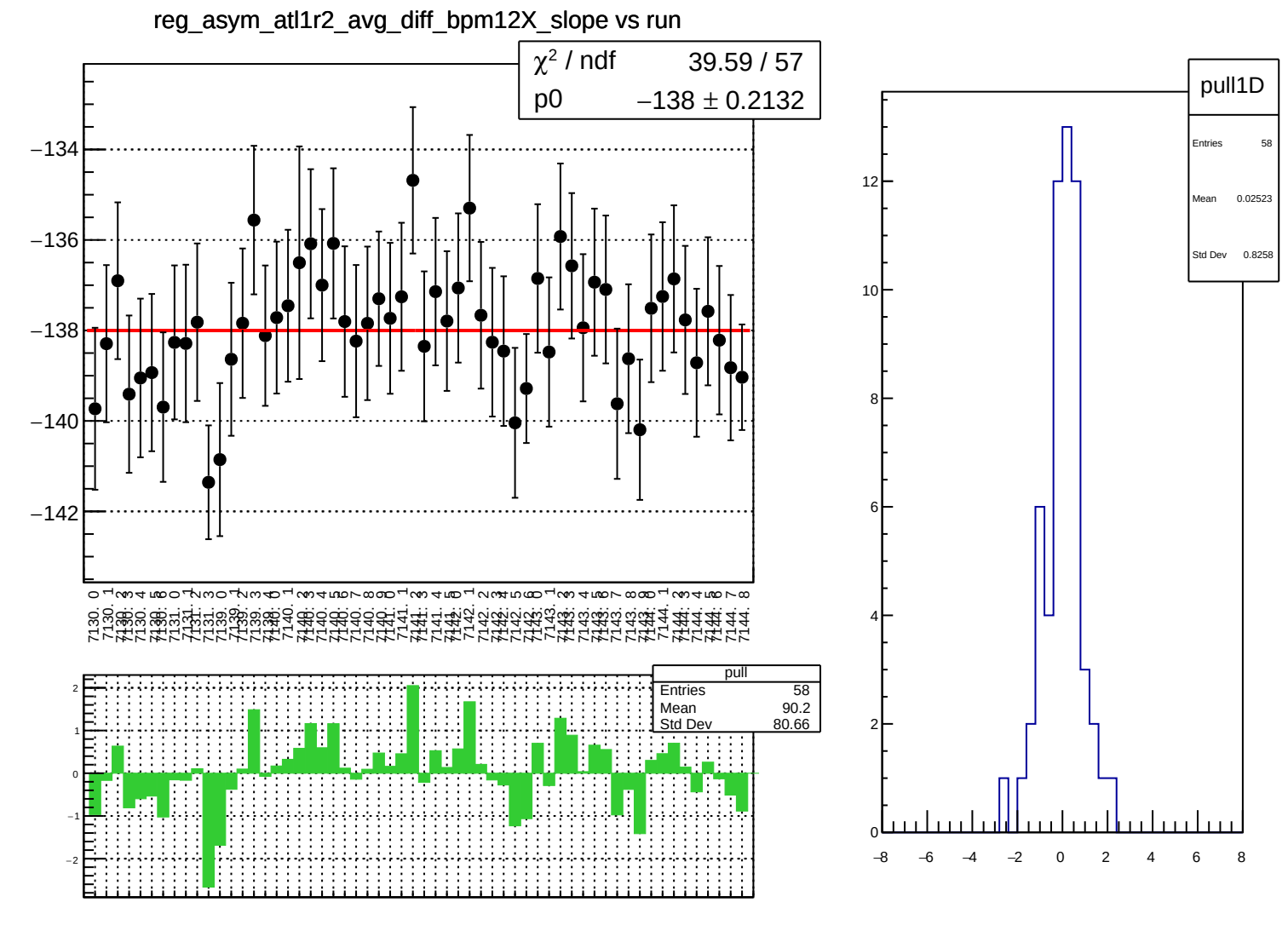

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.05 / 57
p0 −17.06 ± 4.272
pull
Entries 58
Mean 14.92
Std Dev 26.57

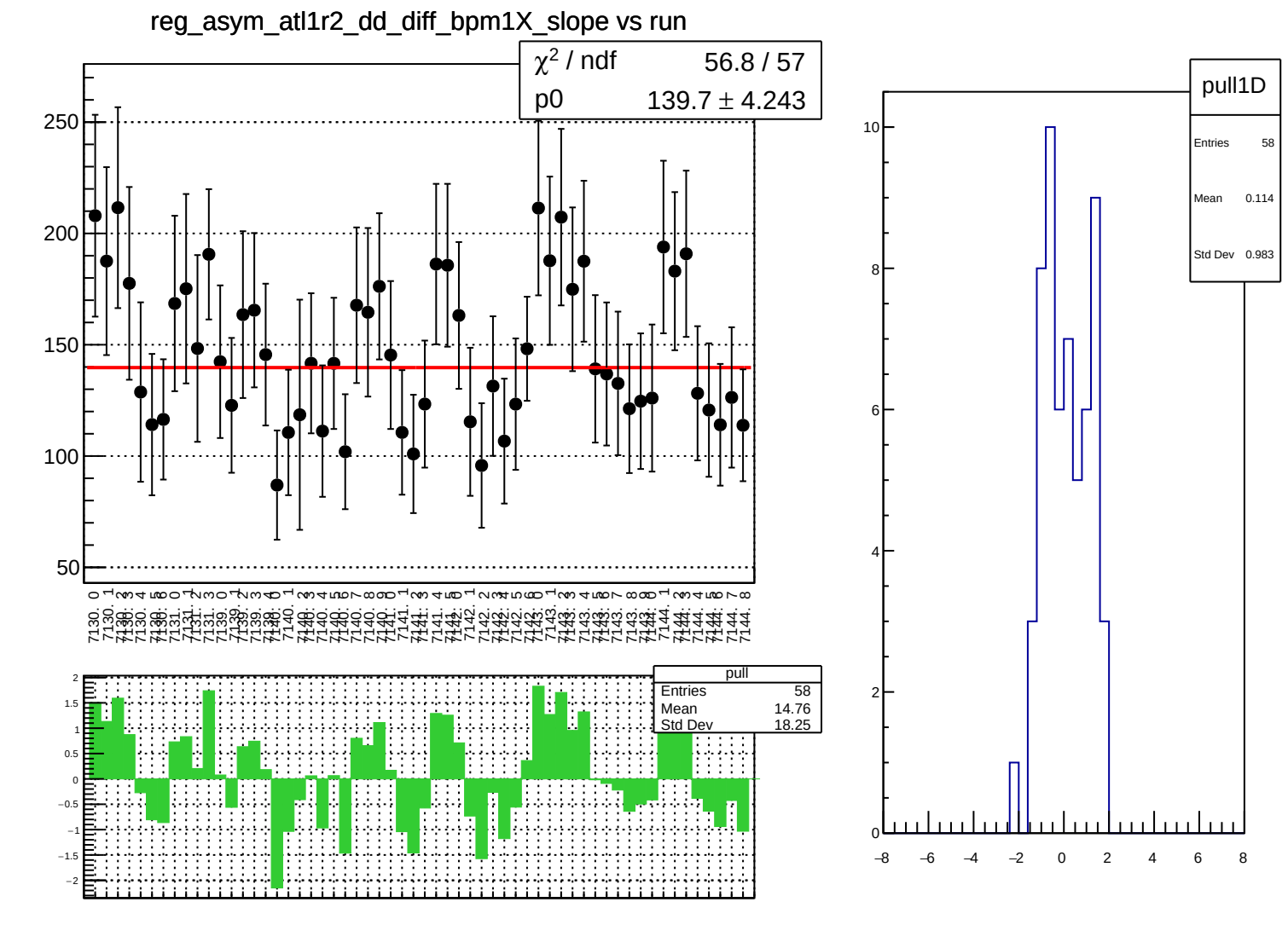

pull1D
Entries 58
Mean 0.01314
Std Dev 0.67

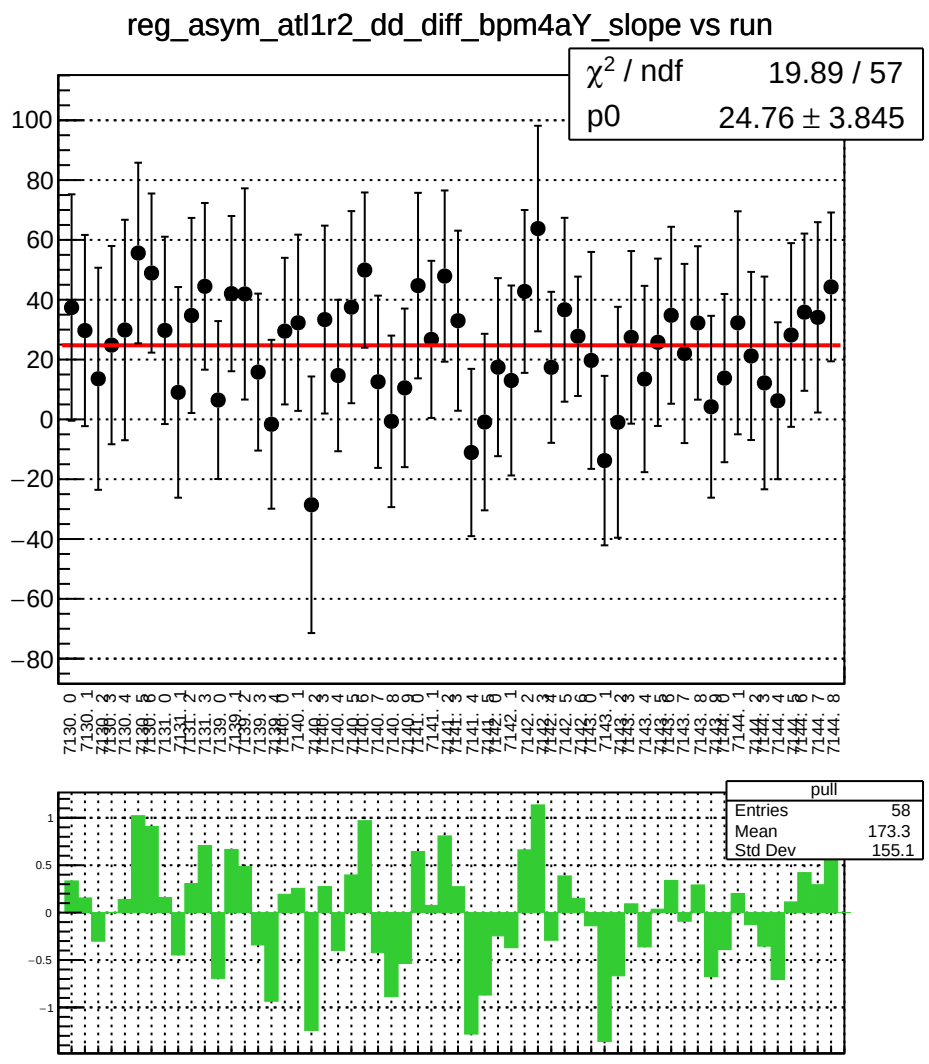

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 88.77 / 57
p0 206.3 ± 4.8
pull
Entries 58
Mean 8.527
Std Dev 9.511
pull1D
Entries 58
Mean 0.1662
Std Dev 1.226

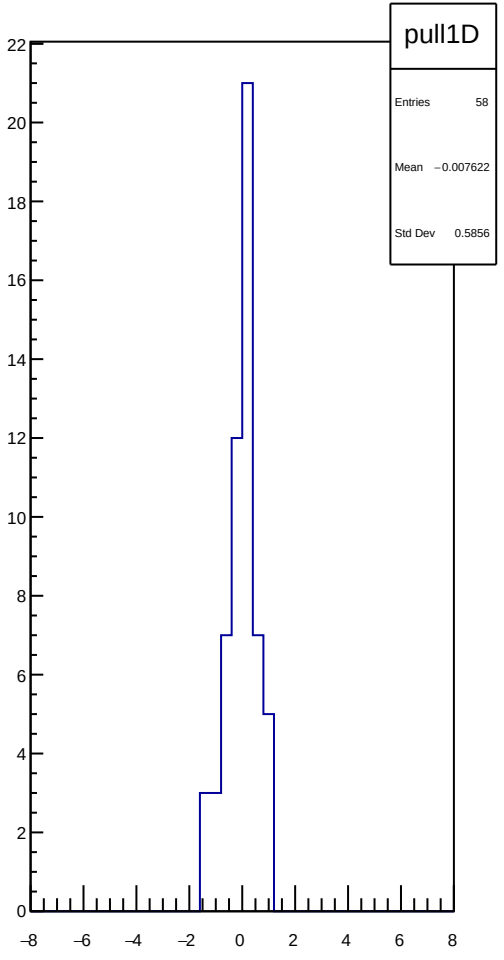

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.27 / 57
p0 81.28 ± 4.574
pull
Entries 58
Mean 35.58
Std Dev 25.16

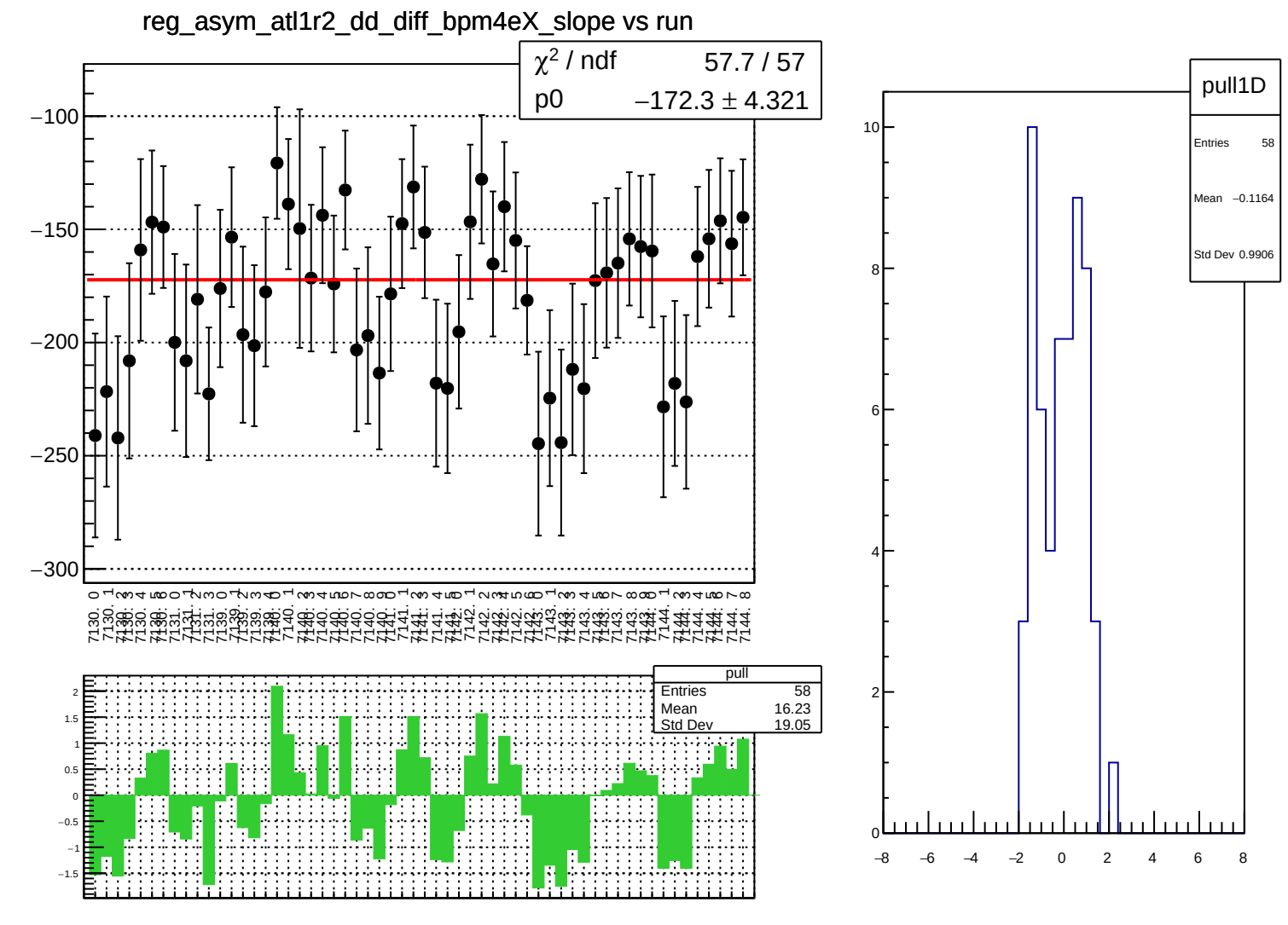

pull1D
Entries 58
Mean −0.01917
Std Dev 0.6979

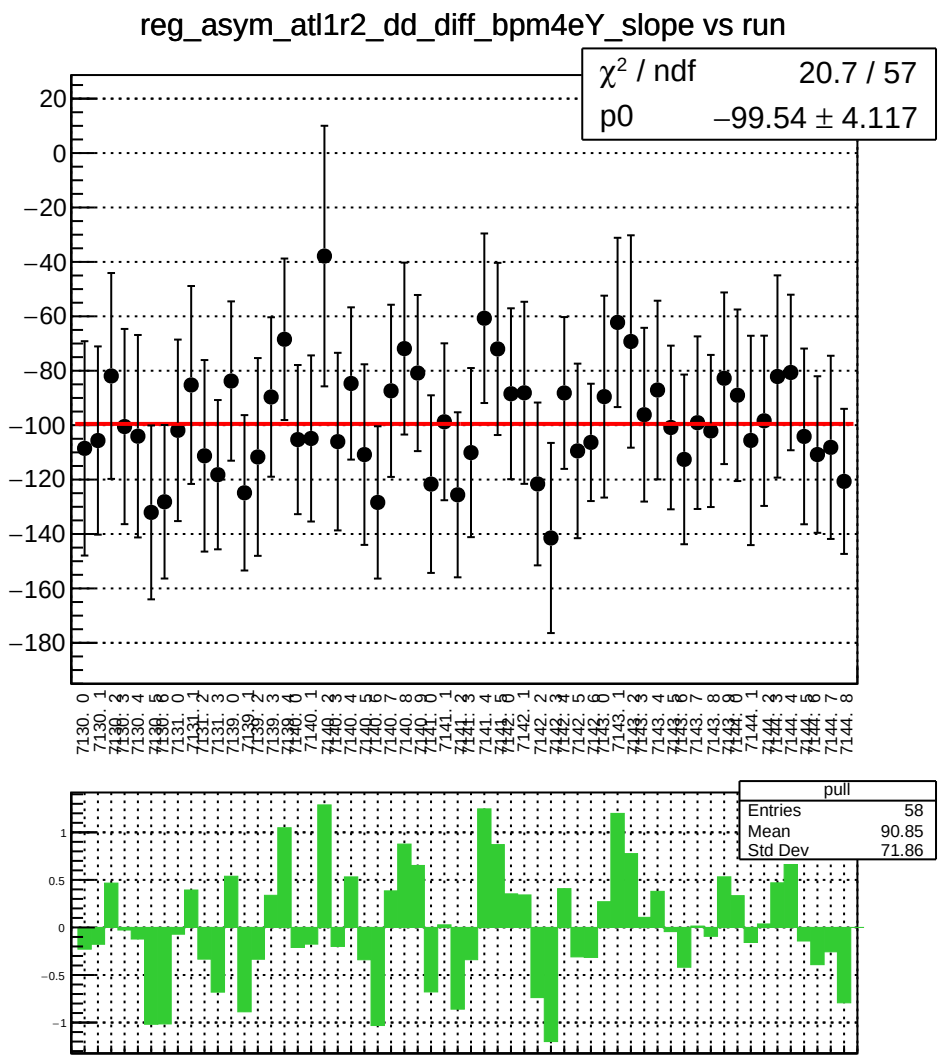

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 39.59 / 57
p0 −138 ± 0.2132
−134
−136
−138
−140
−142
pull
Entries 58
Mean 90.2
Std Dev 80.66
pull1D
Entries 58
Mean 0.02523
Std Dev 0.8258

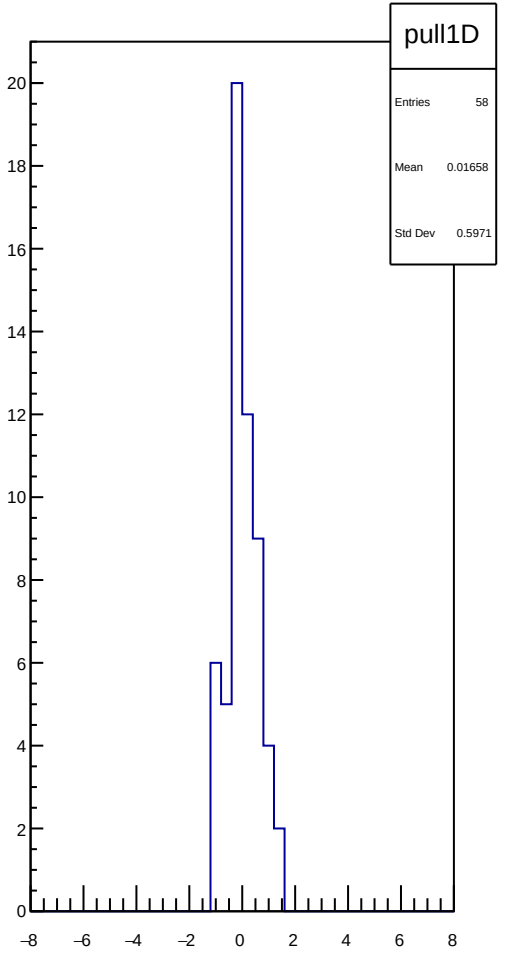

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 56.8 / 57
p0 139.7 ± 4.243
250
200
150
100
50
pull
Entries 58
Mean 14.76
Std Dev 18.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 58
Mean 0.114
Std Dev 0.983
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

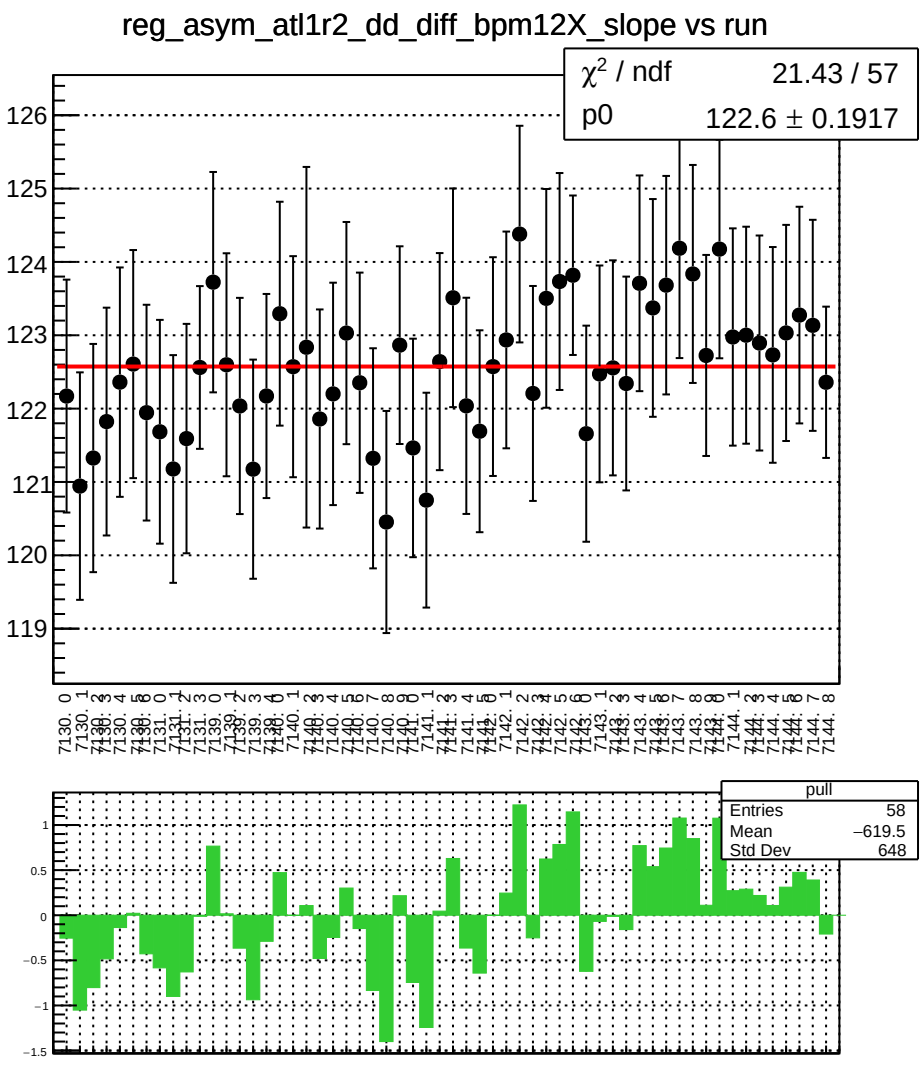

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.89 / 57
p0 24.76 ± 3.845
pull
Entries 58
Mean 173.3
Std Dev 155.1

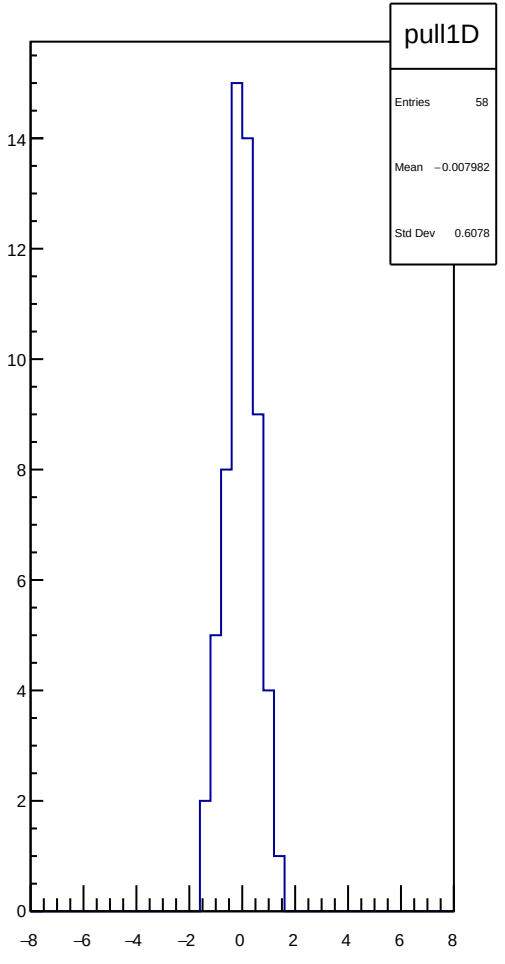

pull1D
Entries 58
Mean −0.007622
Std Dev 0.5856

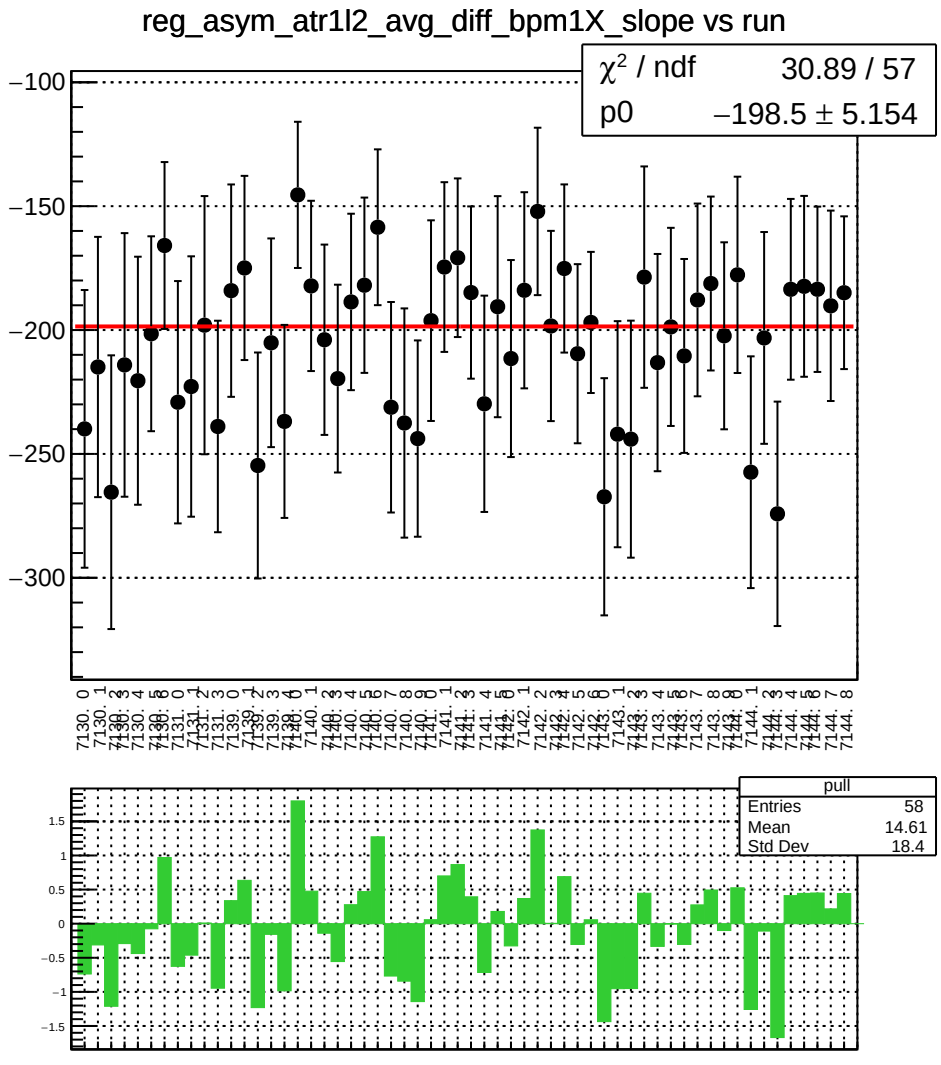

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.7 / 57
p0 −172.3 ± 4.321
−100
−150
−200
−250
−300
pull
Entries 58
Mean 16.23
Std Dev 19.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 58
Mean −0.1164
Std Dev 0.9906
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

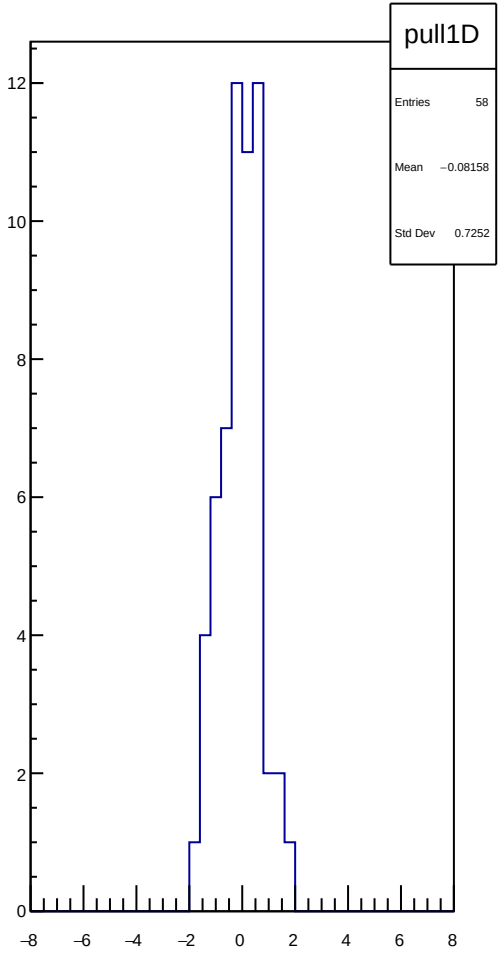

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.7 / 57
p0 −99.54 ± 4.117
pull
Entries 58
Mean 90.85
Std Dev 71.86

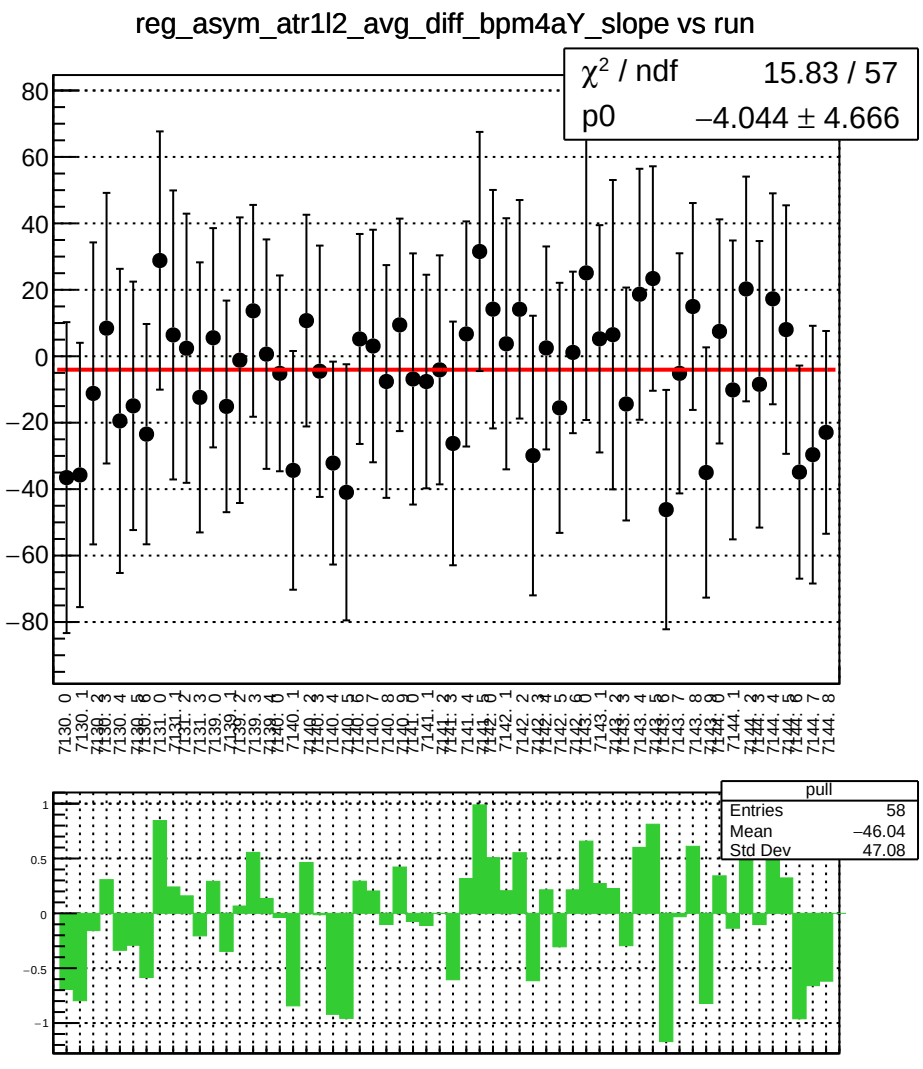

pull1D
Entries 58
Mean 0.01658
Std Dev 0.5971

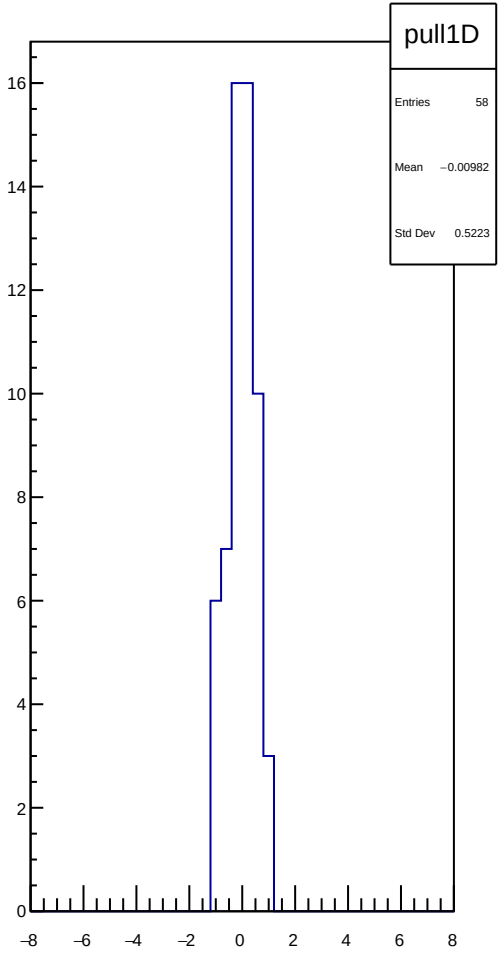

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 21.43 / 57
p0 122.6 ± 0.1917
pull
Entries 58
Mean −619.5
Std Dev 648

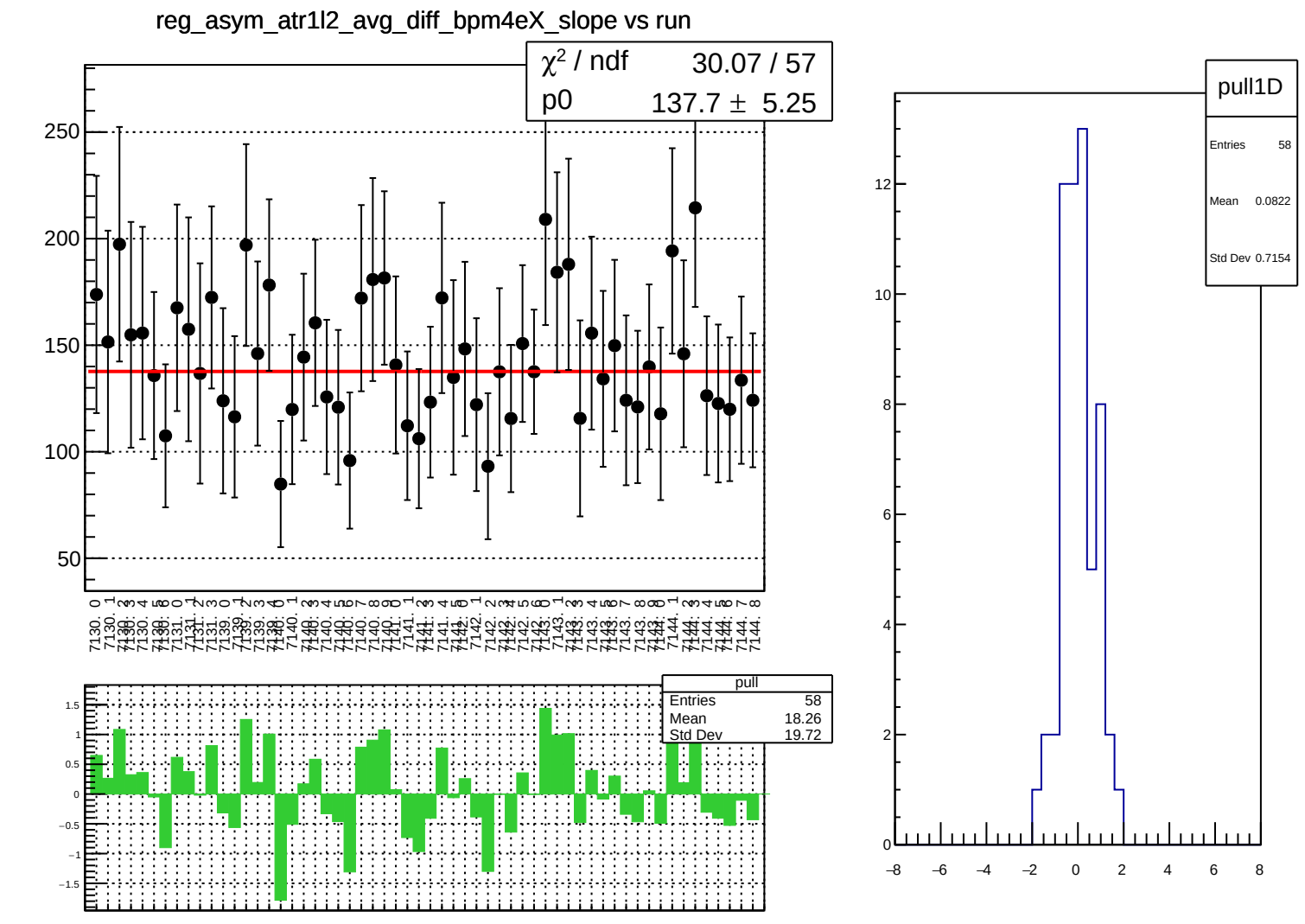

pull1D
Entries 58
Mean −0.007982
Std Dev 0.6078

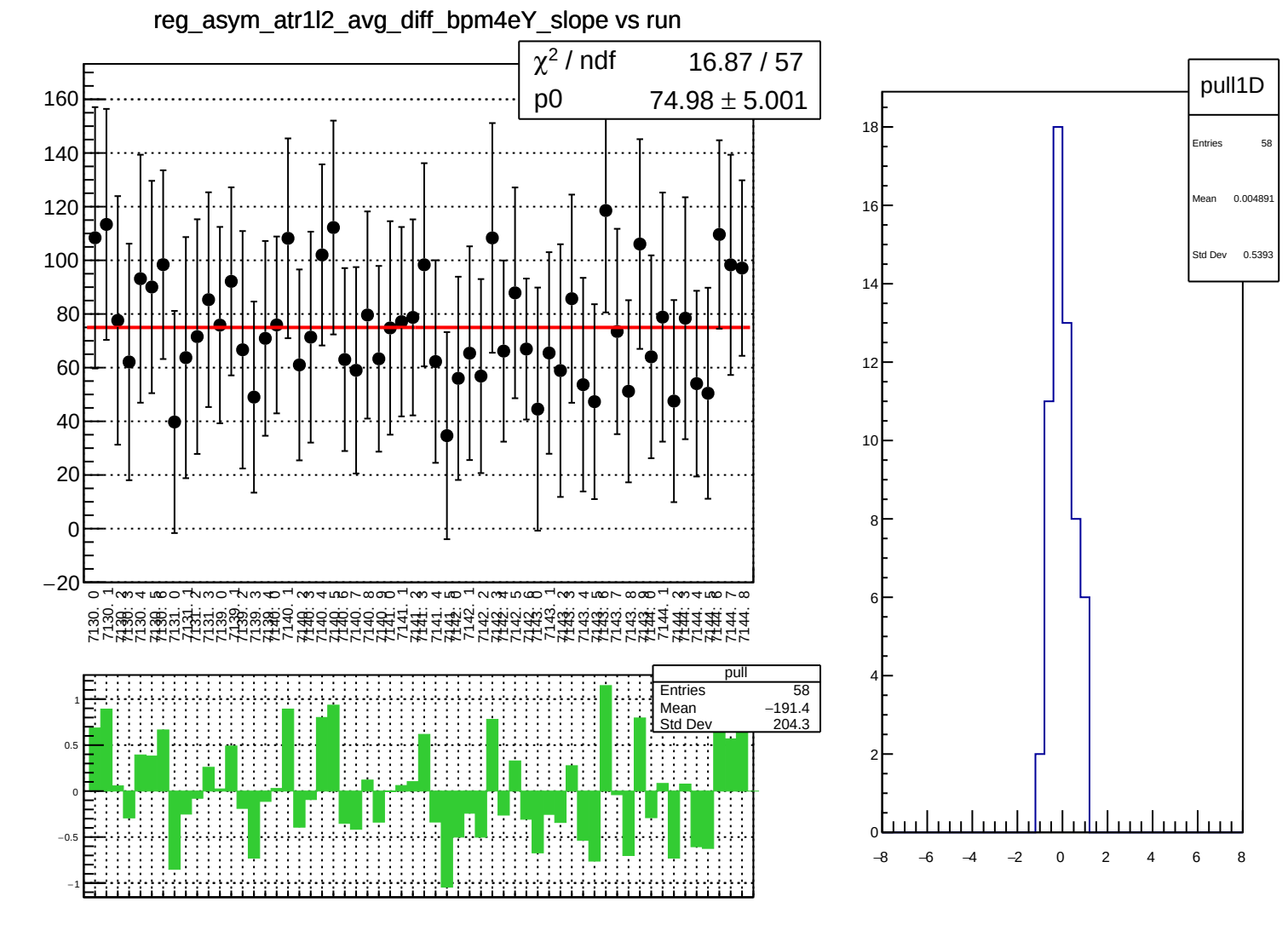

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 30.89 / 57
p0 −198.5 ± 5.154
pull
Entries 58
Mean 14.61
Std Dev 18.4

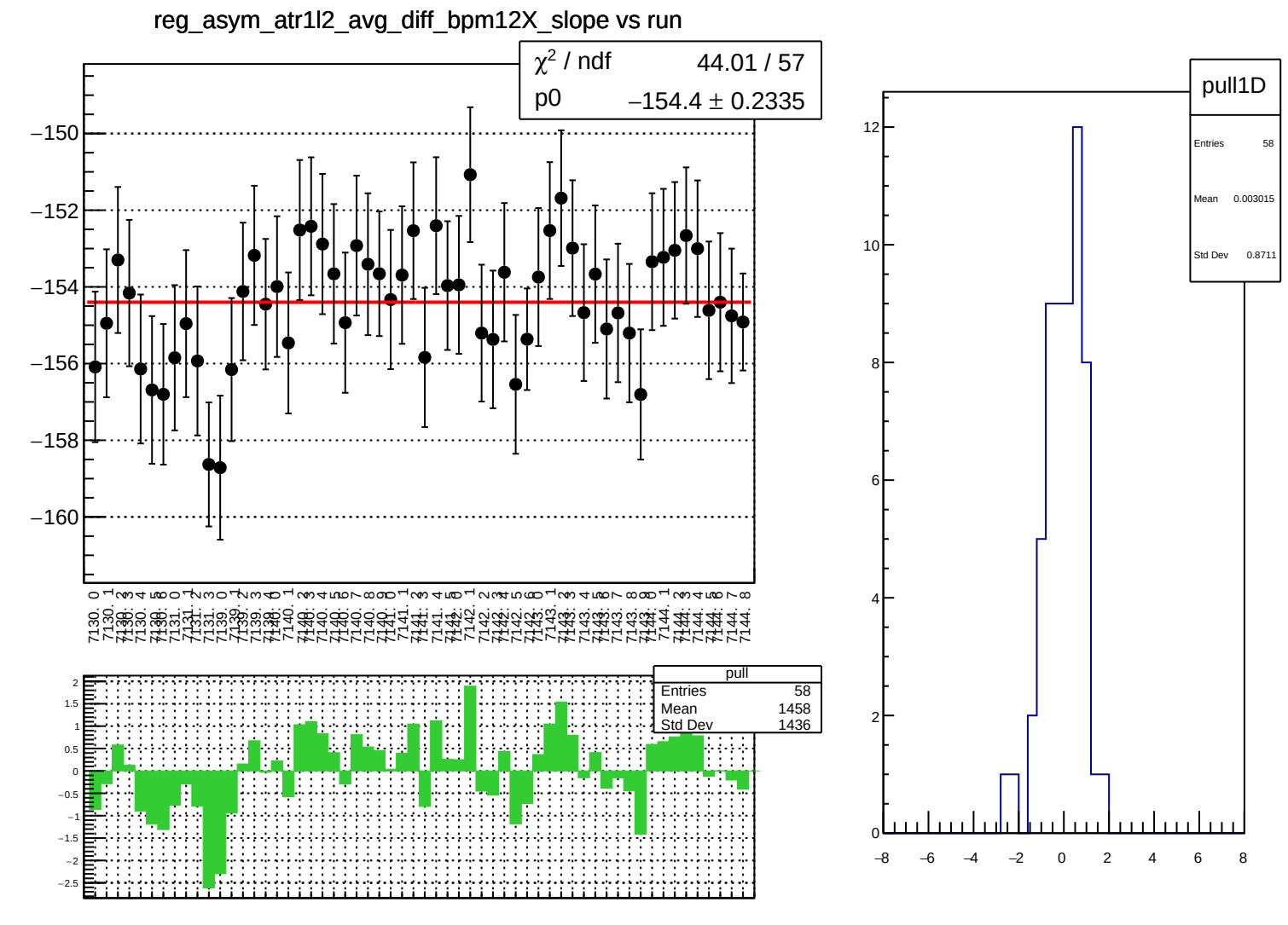

pull1D
Entries 58
Mean −0.08158
Std Dev 0.7252

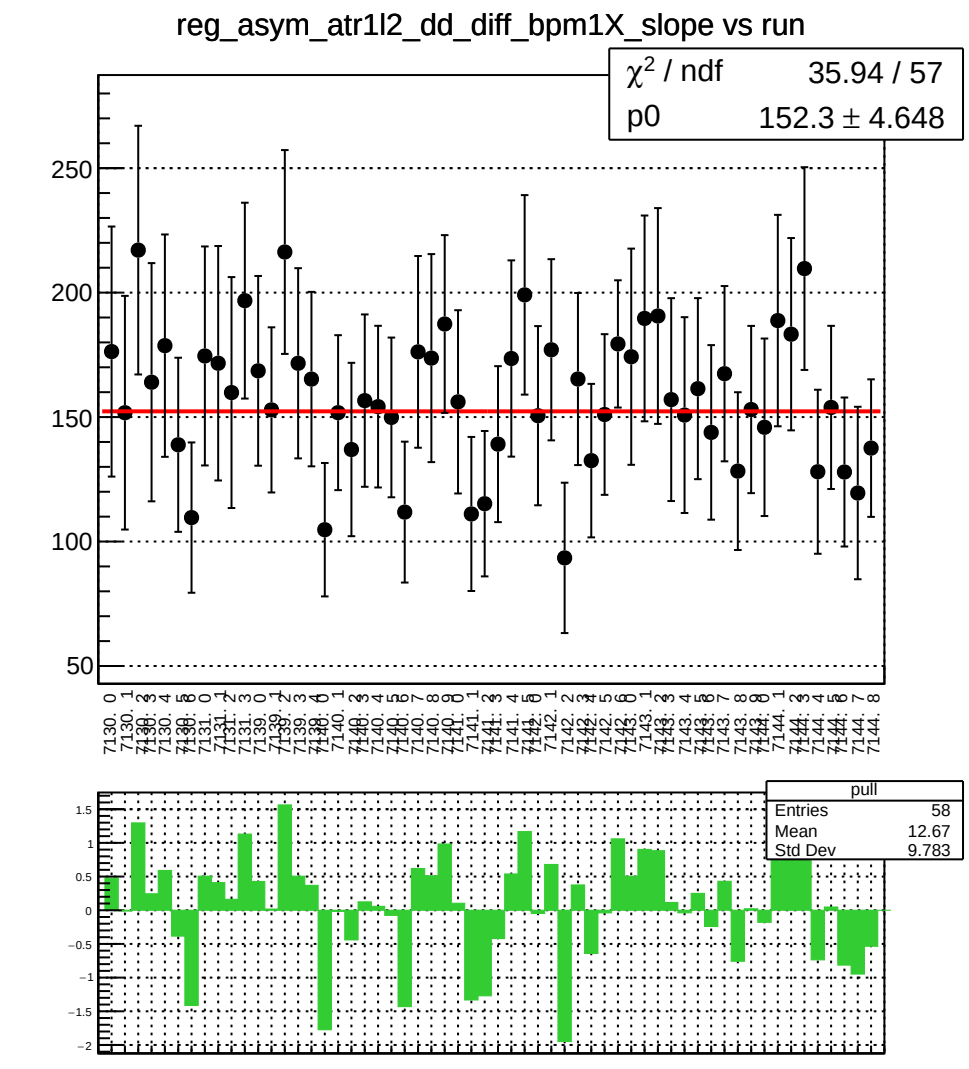

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.83 / 57
p0 −4.044 ± 4.666
pull
Entries 58
Mean −46.04
Std Dev 47.08

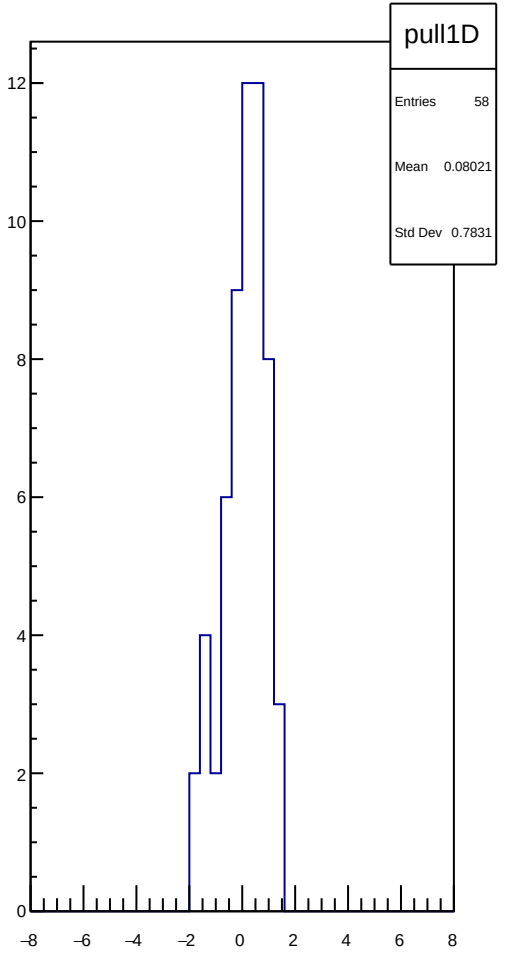

pull1D
Entries 58
Mean −0.00982
Std Dev 0.5223

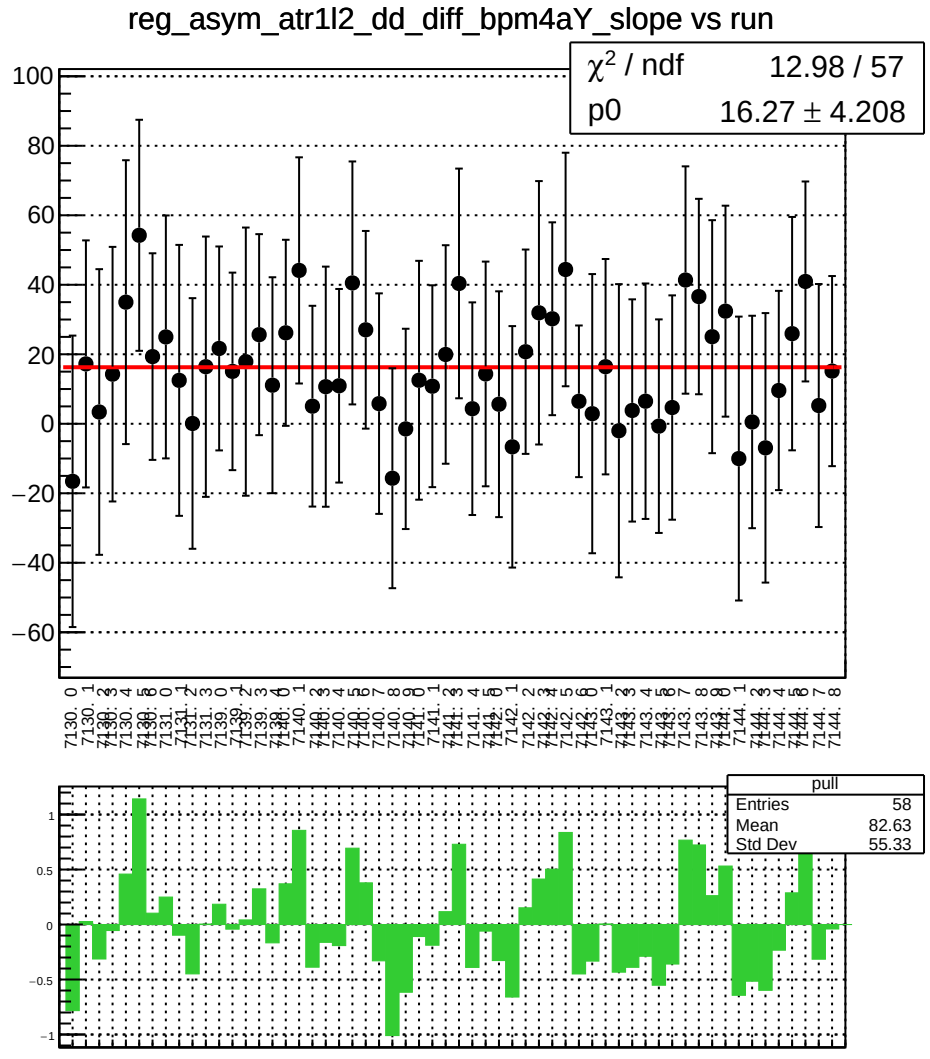

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.07 / 57
p0 137.7 ± 5.25
250
200
150
100
50
pull
Entries 58
Mean 18.26
Std Dev 19.72
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 58
Mean 0.0822
Std Dev 0.7154
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

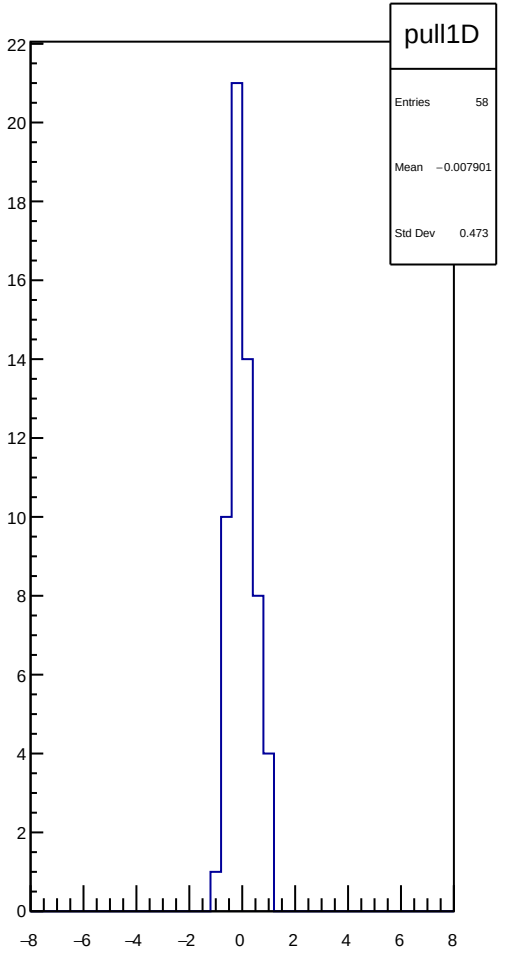

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.87 / 57
p0 74.98 ± 5.001
pull
Entries 58
Mean −191.4
Std Dev 204.3
pull1D
Entries 58
Mean 0.004891
Std Dev 0.5393

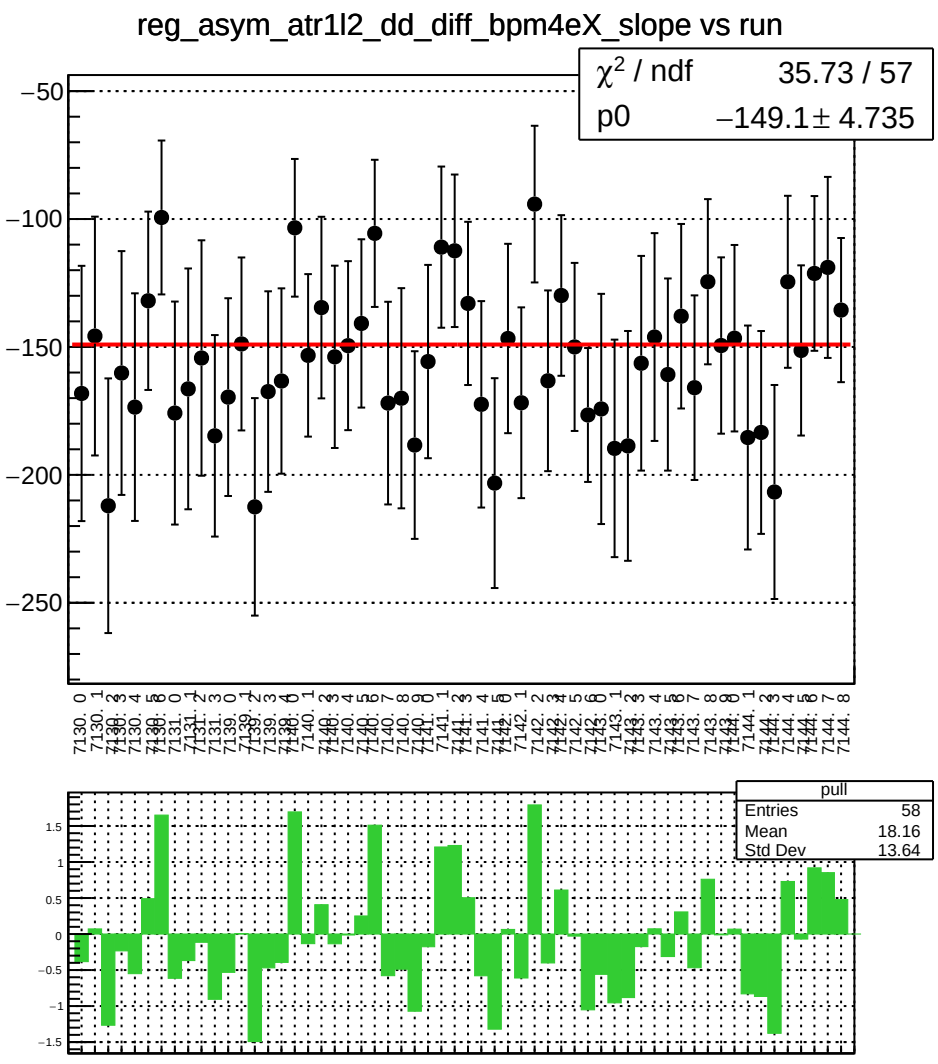

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 44.01 / 57
p0 −154.4 ± 0.2335
−150
−152
−154
−156
−158
−160
pull
Entries 58
Mean 1458
Std Dev 1436
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 58
Mean 0.003015
Std Dev 0.8711
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

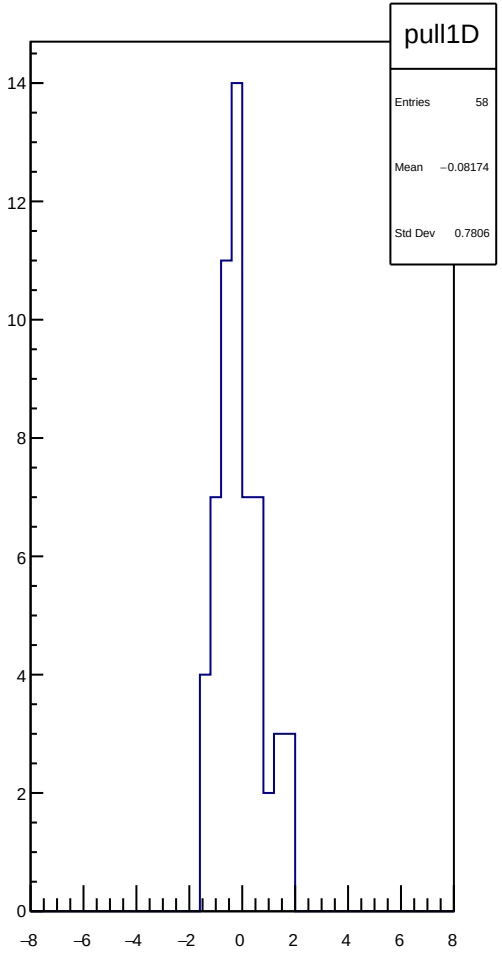

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 35.94 / 57
p0 152.3 ± 4.648
pull
Entries 58
Mean 12.67
Std Dev 9.783

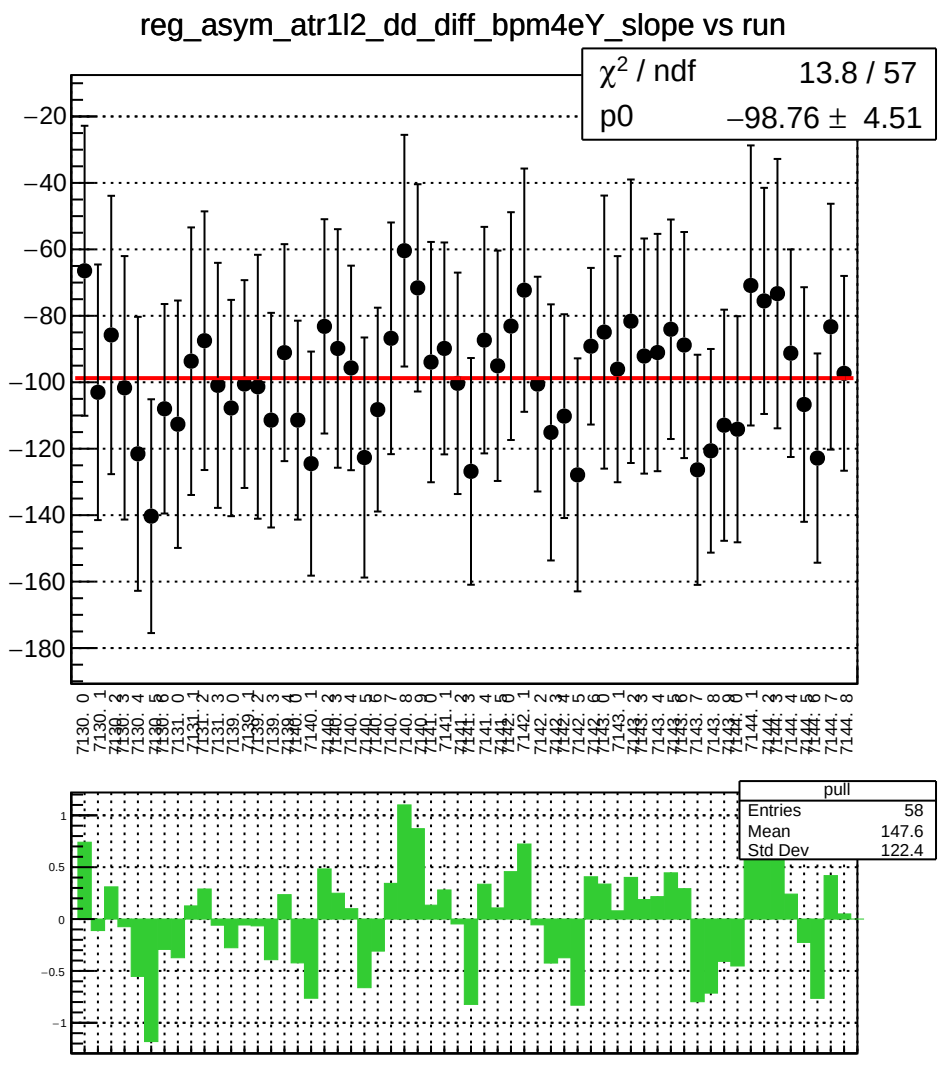

pull1D
Entries 58
Mean 0.08021
Std Dev 0.7831

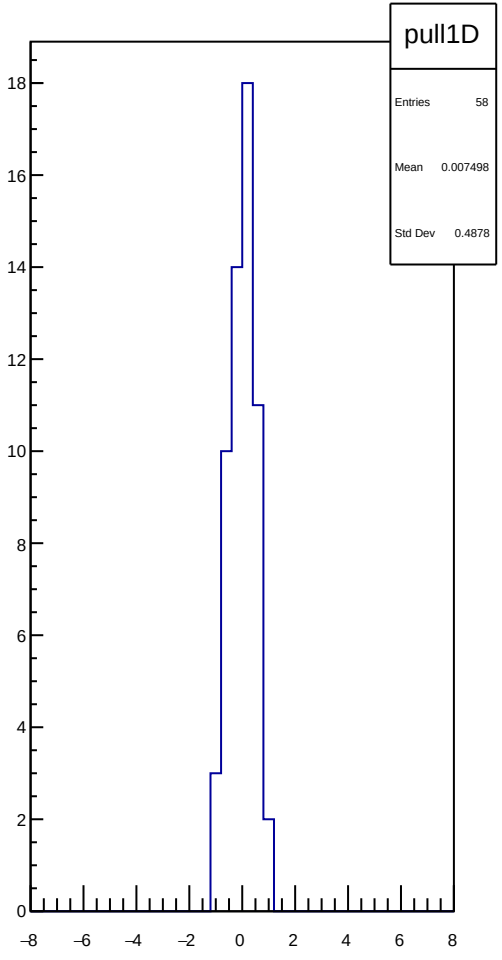

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.98 / 57
p0 16.27 ± 4.208
pull
Entries 58
Mean 82.63
Std Dev 55.33

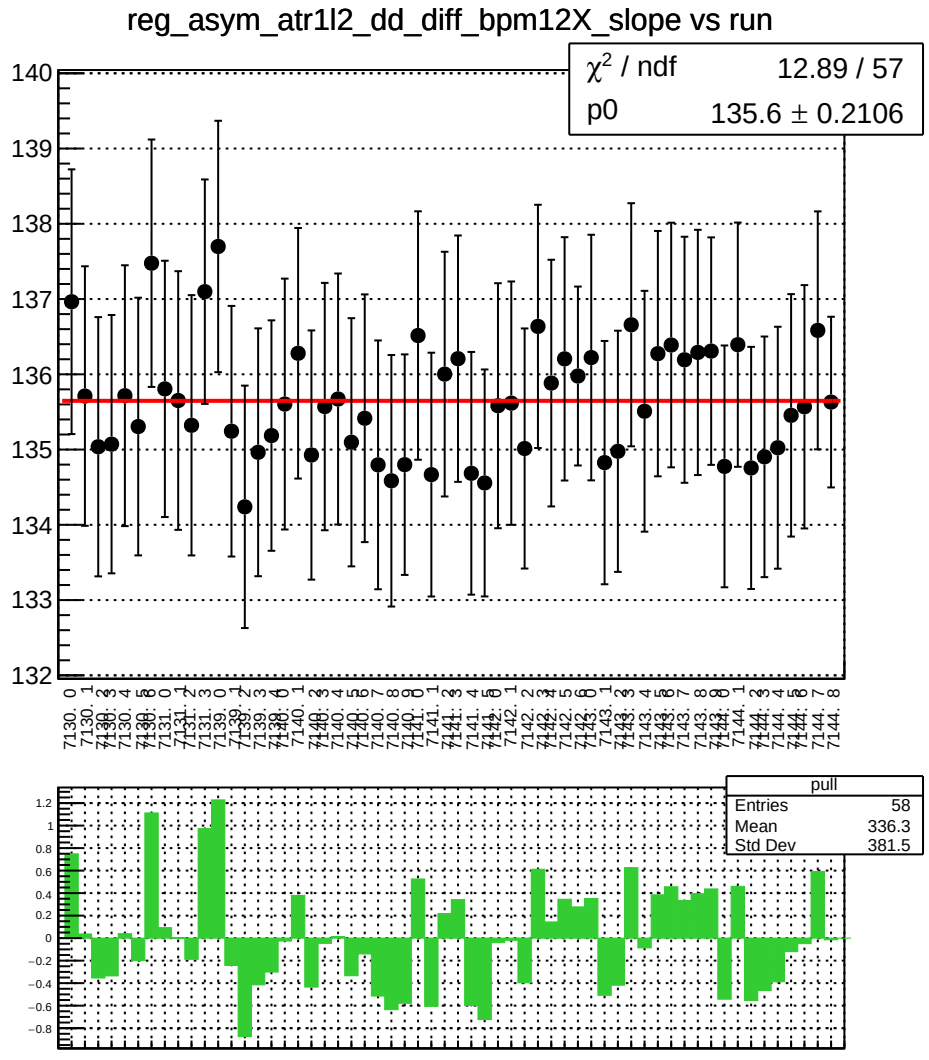

pull1D
Entries 58
Mean −0.007901
Std Dev 0.473

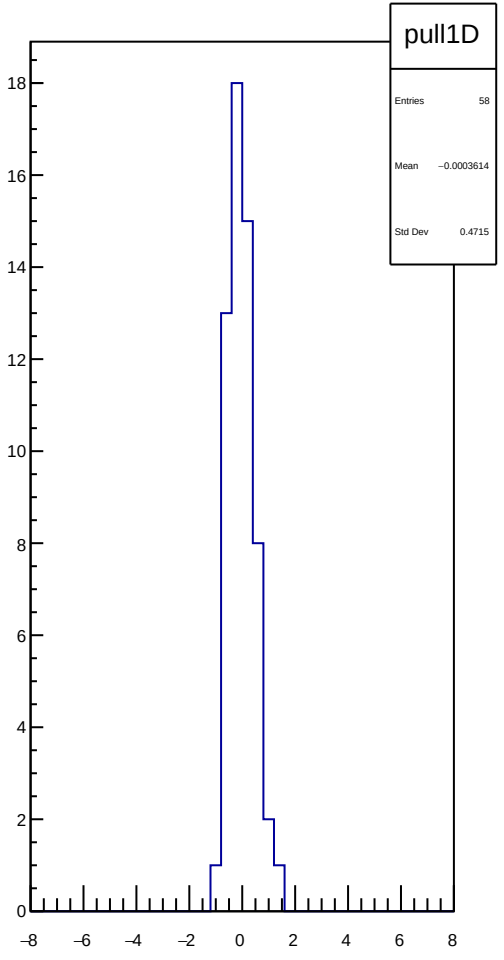

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.73 / 57
p0 −149.1 ± 4.735
pull
Entries 58
Mean 18.16
Std Dev 13.64

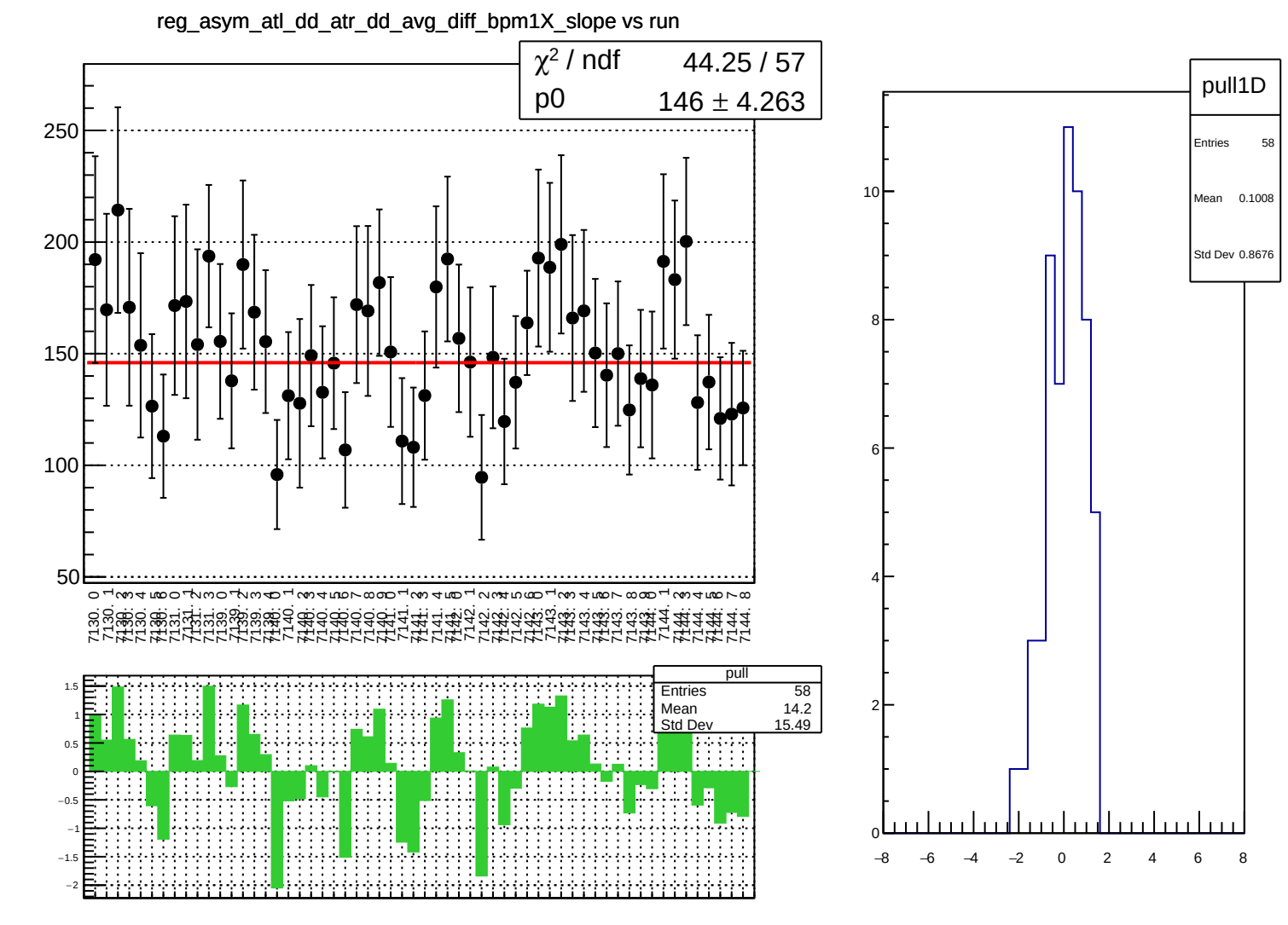

pull1D
Entries 58
Mean −0.08174
Std Dev 0.7806

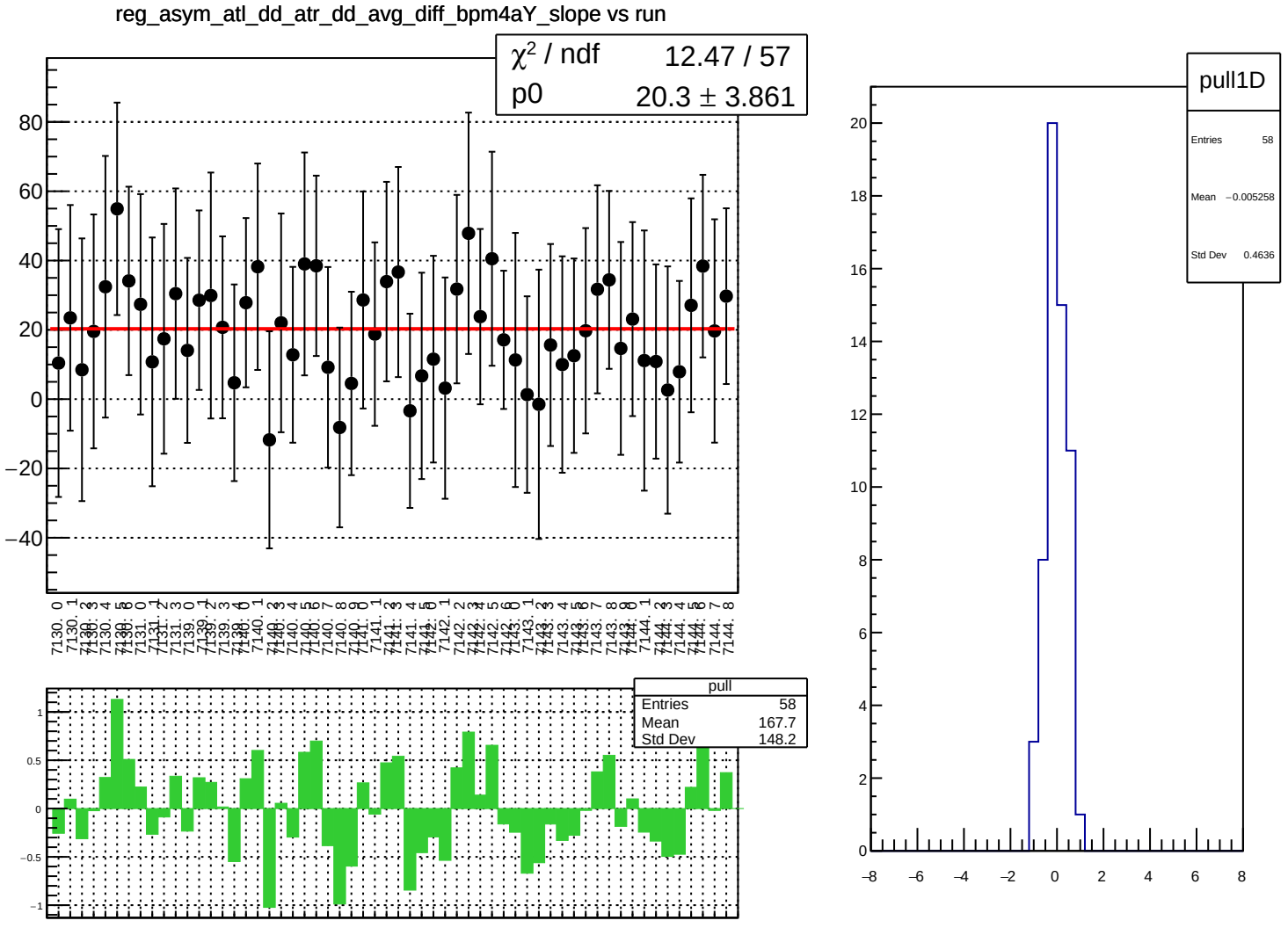

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.8 / 57
p0 −98.76 ± 4.51
pull
Entries 58
Mean 147.6
Std Dev 122.4

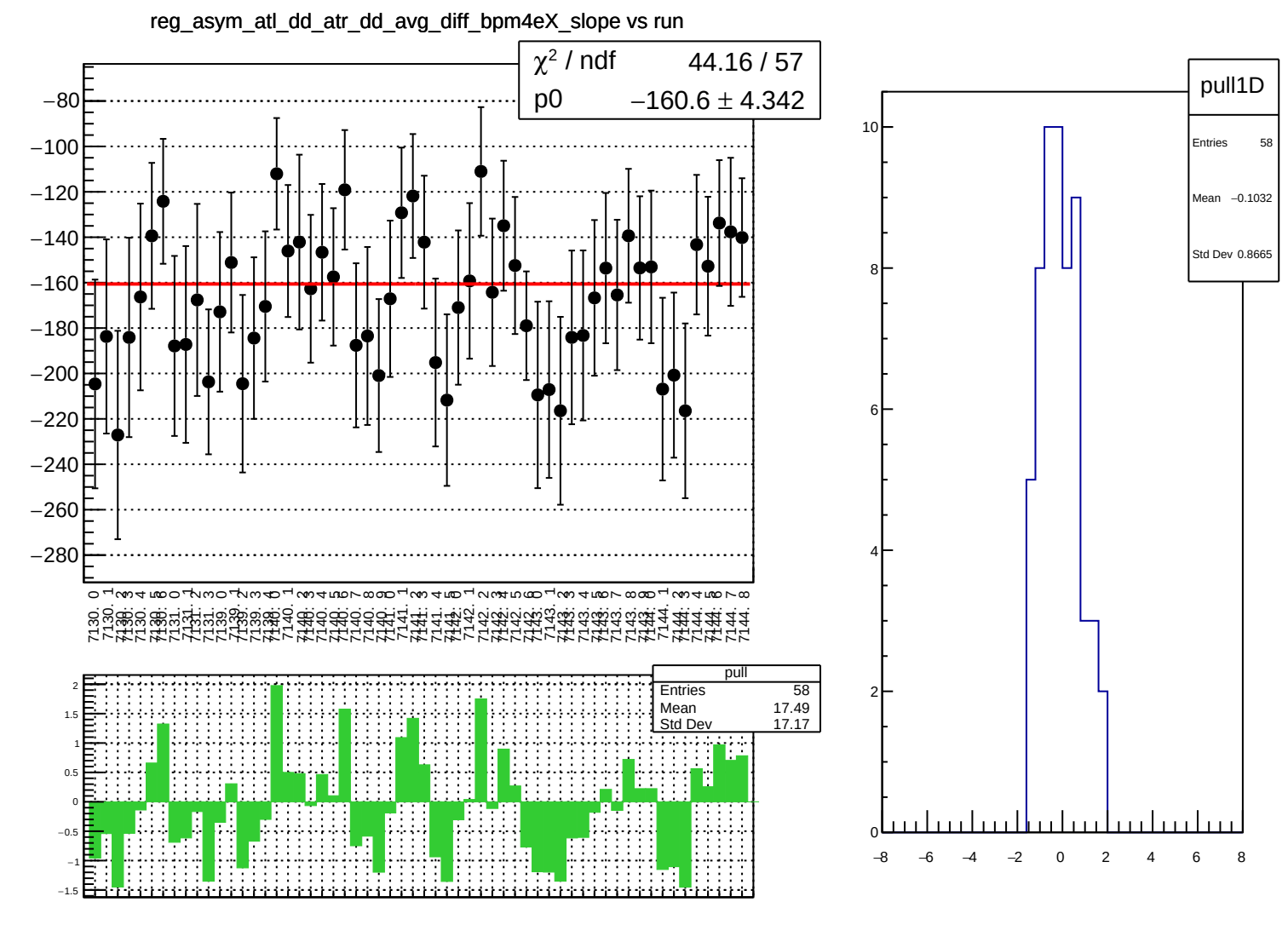

pull1D
Entries 58
Mean 0.007498
Std Dev 0.4878

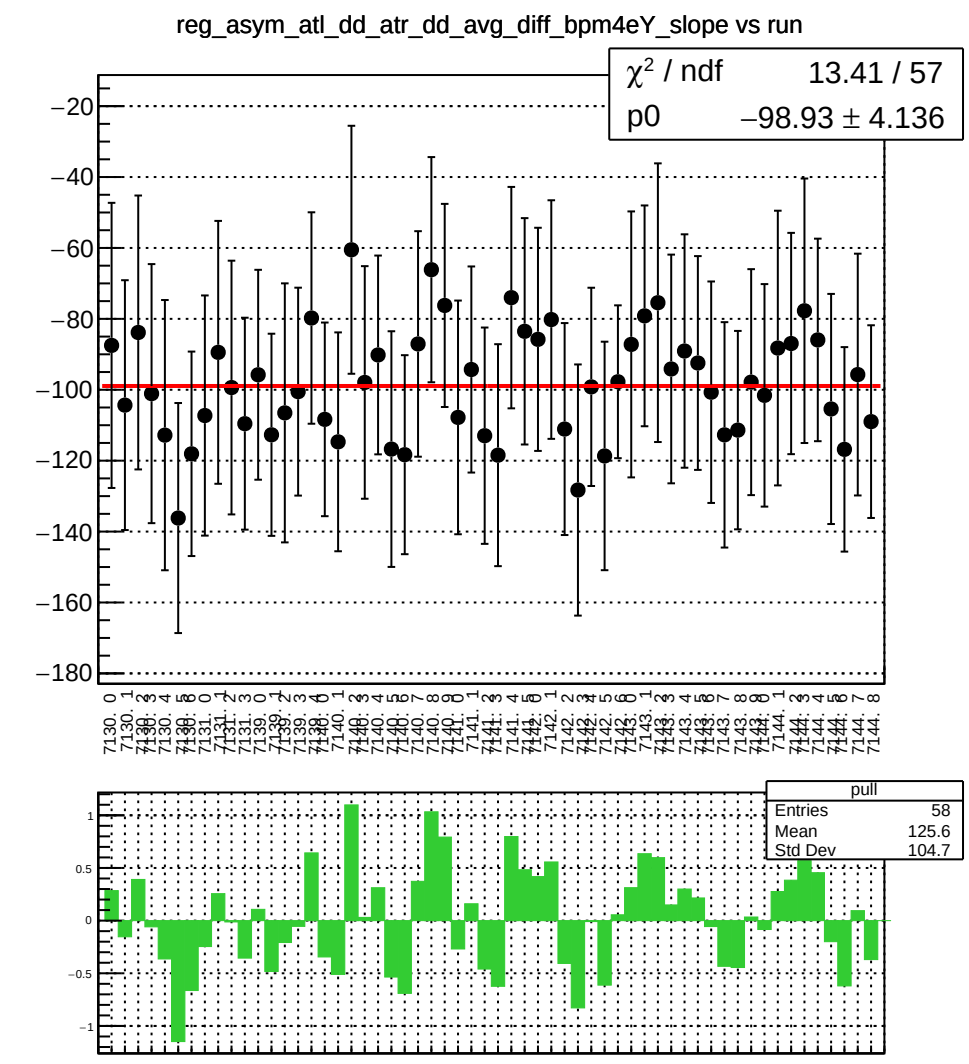

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 12.89 / 57
p0 135.6 ± 0.2106
pull
Entries 58
Mean 336.3
Std Dev 381.5

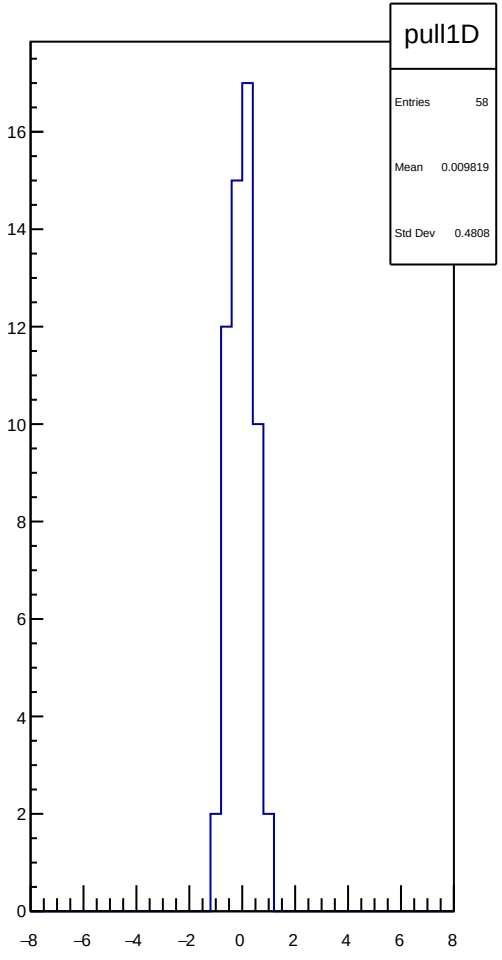

pull1D
Entries 58
Mean −0.0003614
Std Dev 0.4715

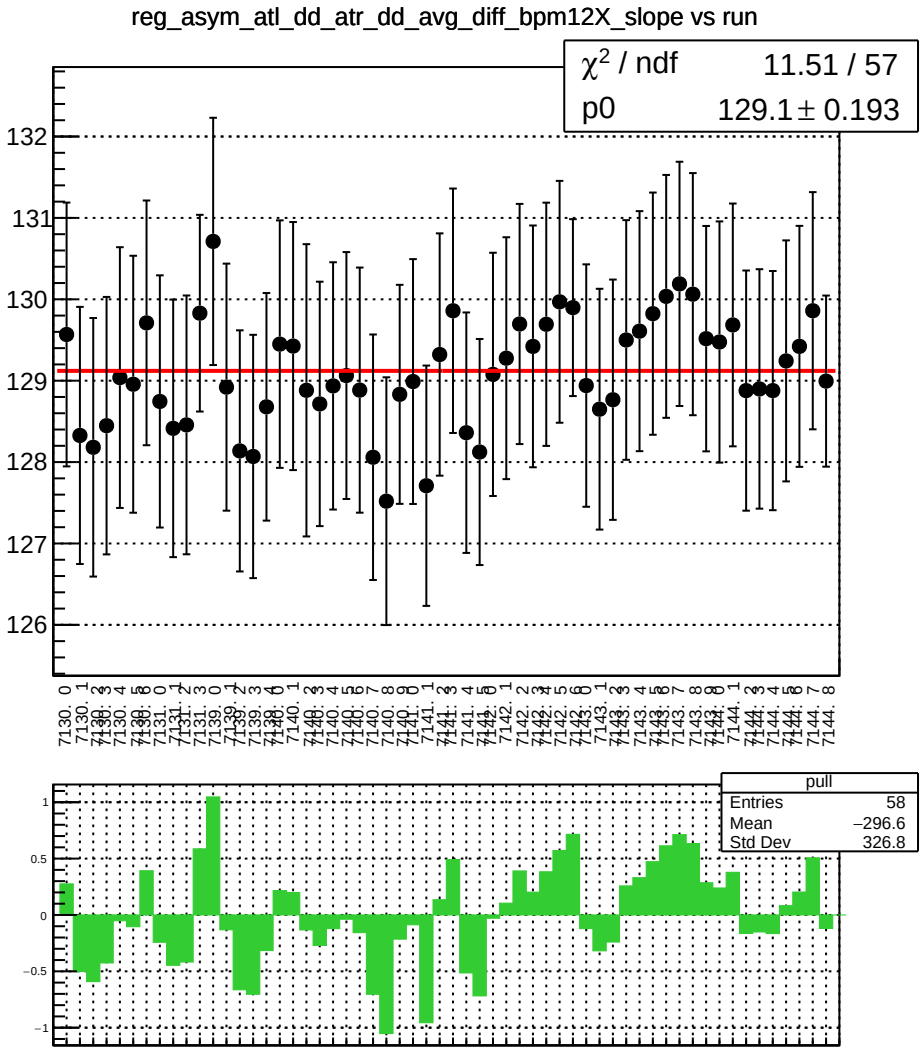

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 44.25 / 57
p0 146 ± 4.263
250
200
150
100
50
pull
Entries 58
Mean 14.2
Std Dev 15.49
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 58
Mean 0.1008
Std Dev 0.8676
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

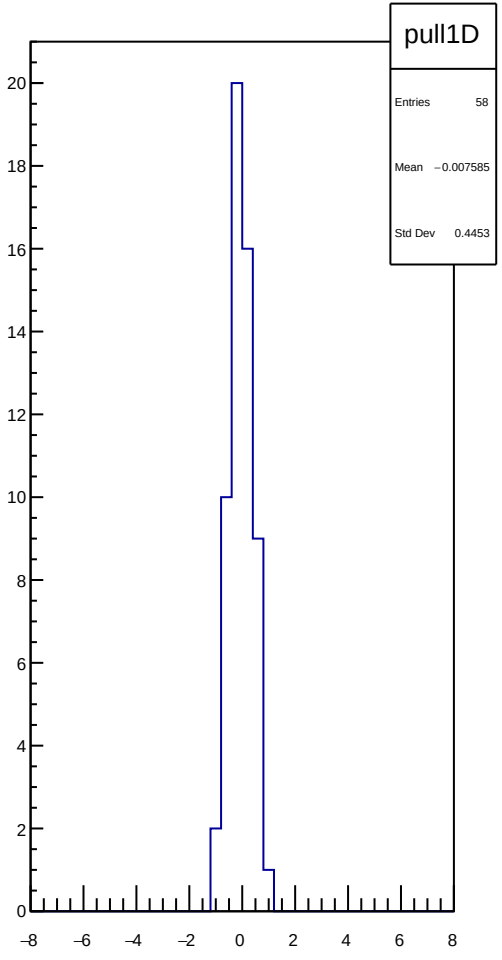

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.47 / 57
p0 20.3 ± 3.861
pull
Entries 58
Mean 167.7
Std Dev 148.2
pull1D
Entries 58
Mean −0.005258
Std Dev 0.4636

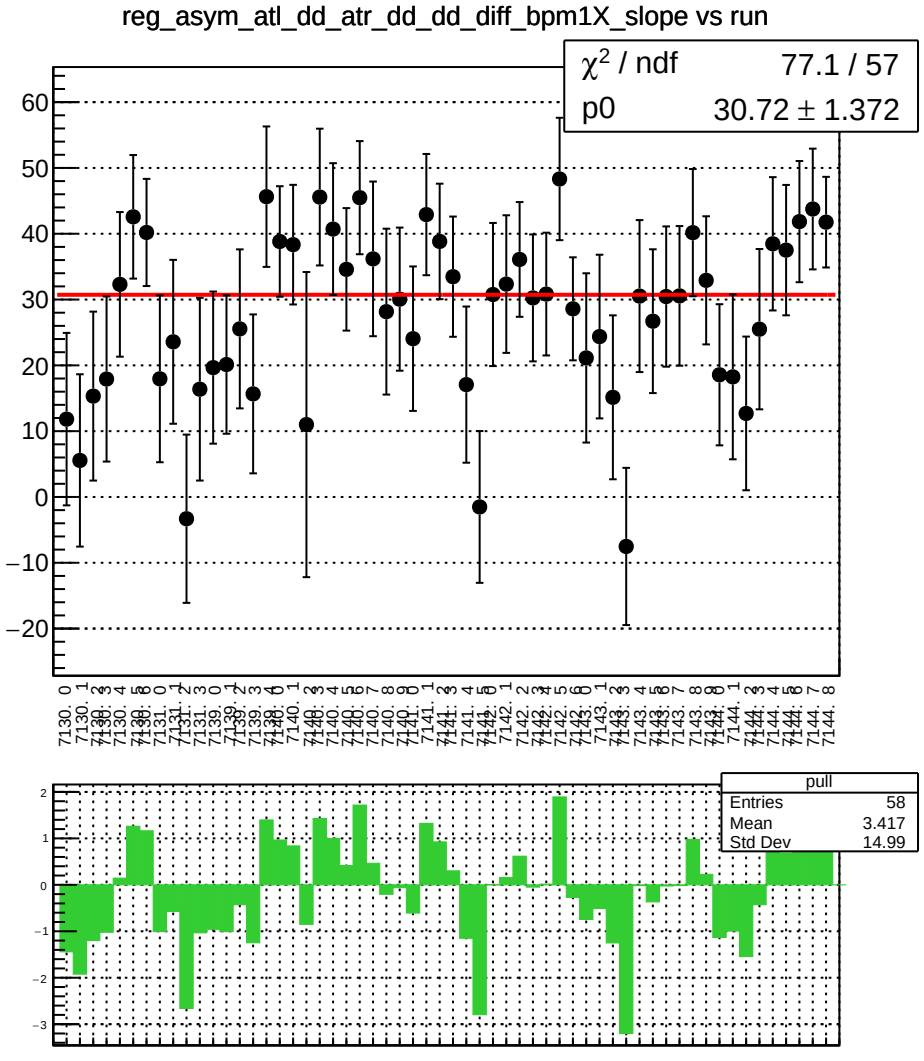

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.16 / 57
p0 −160.6 ± 4.342
pull
Entries 58
Mean 17.49
Std Dev 17.17
pull1D
Entries 58
Mean −0.1032
Std Dev 0.8665

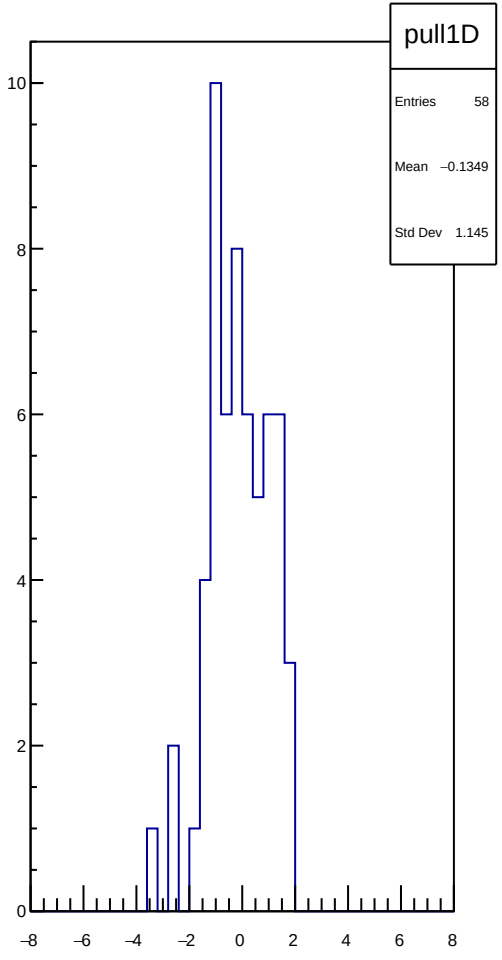

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.41 / 57
p0 −98.93 ± 4.136
pull
Entries 58
Mean 125.6
Std Dev 104.7

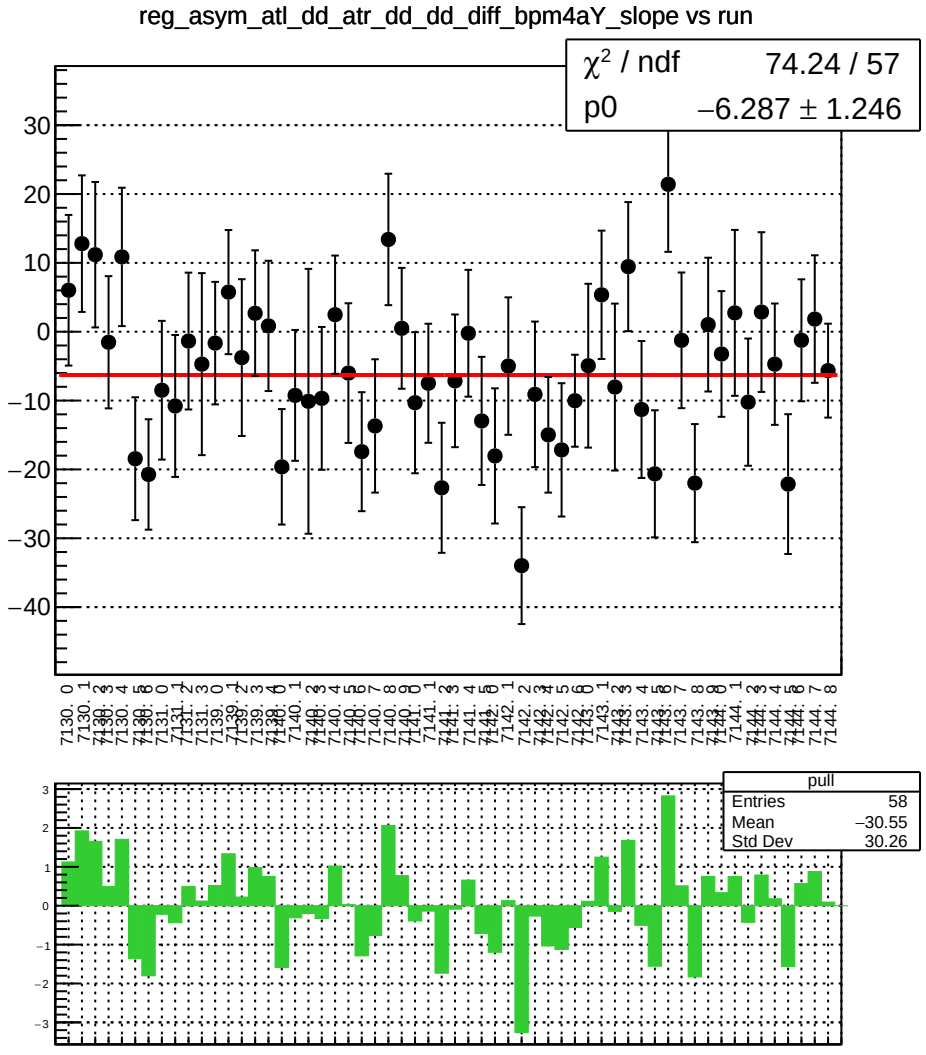

pull1D
Entries 58
Mean 0.009819
Std Dev 0.4808

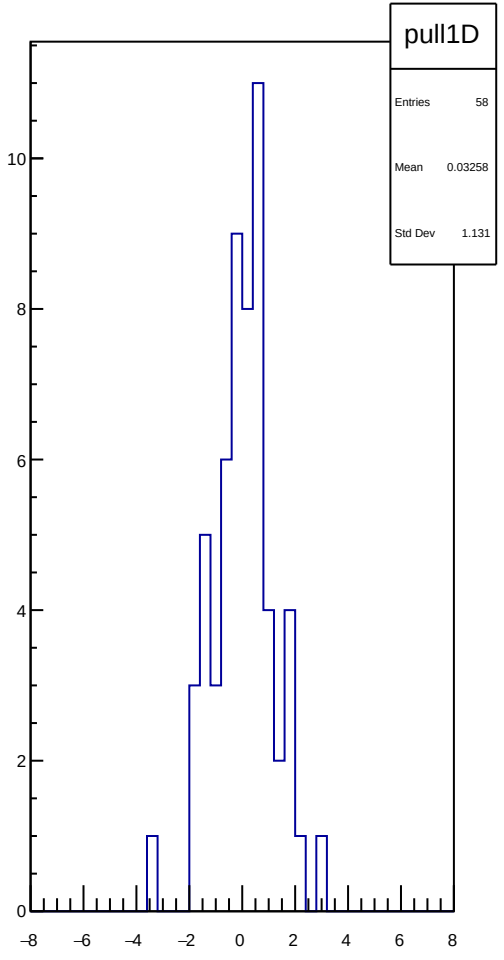

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 11.51 / 57
p0 129.1 ± 0.193
pull
Entries 58
Mean −296.6
Std Dev 326.8

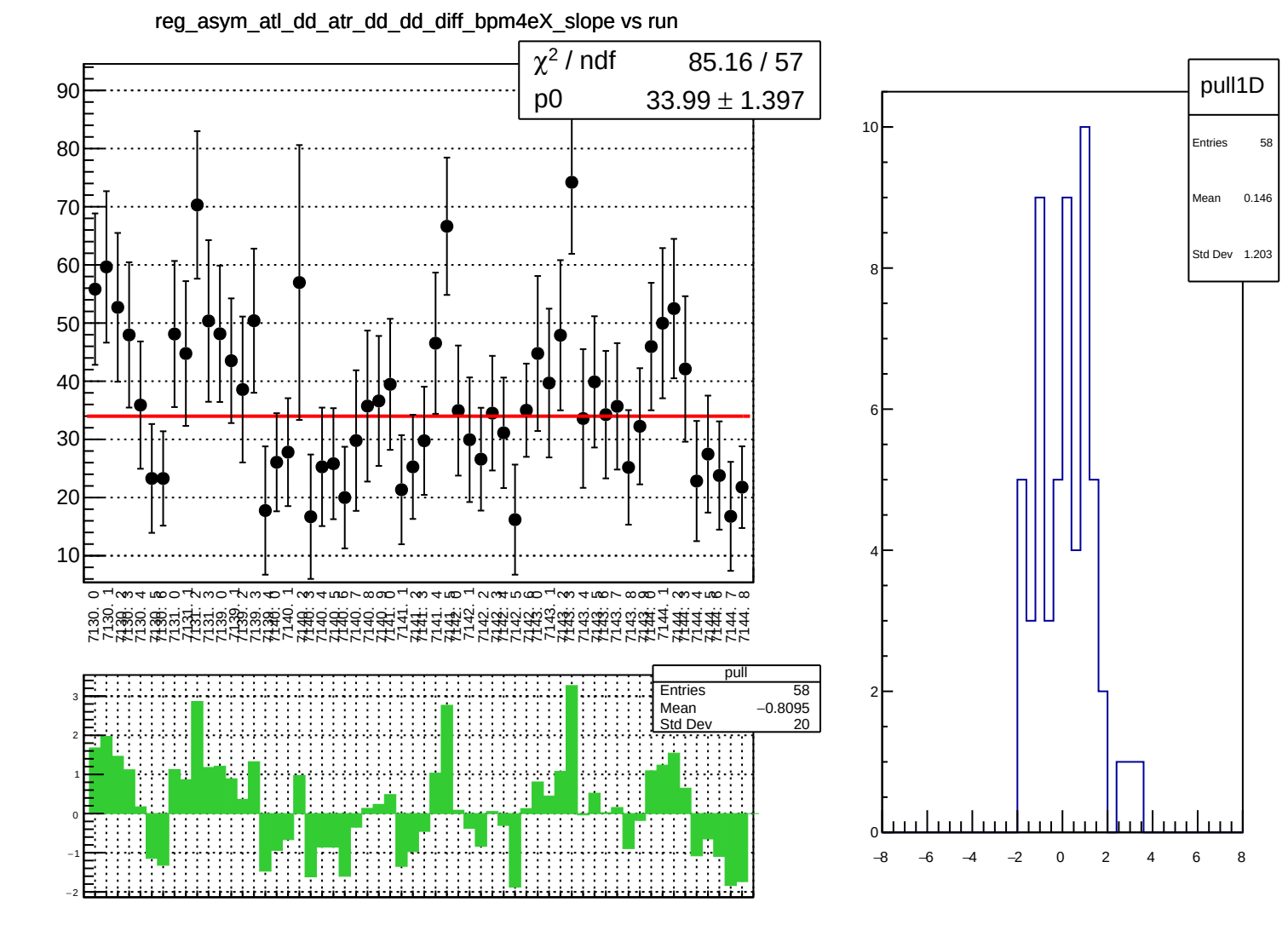

pull1D
Entries 58
Mean −0.007585
Std Dev 0.4453

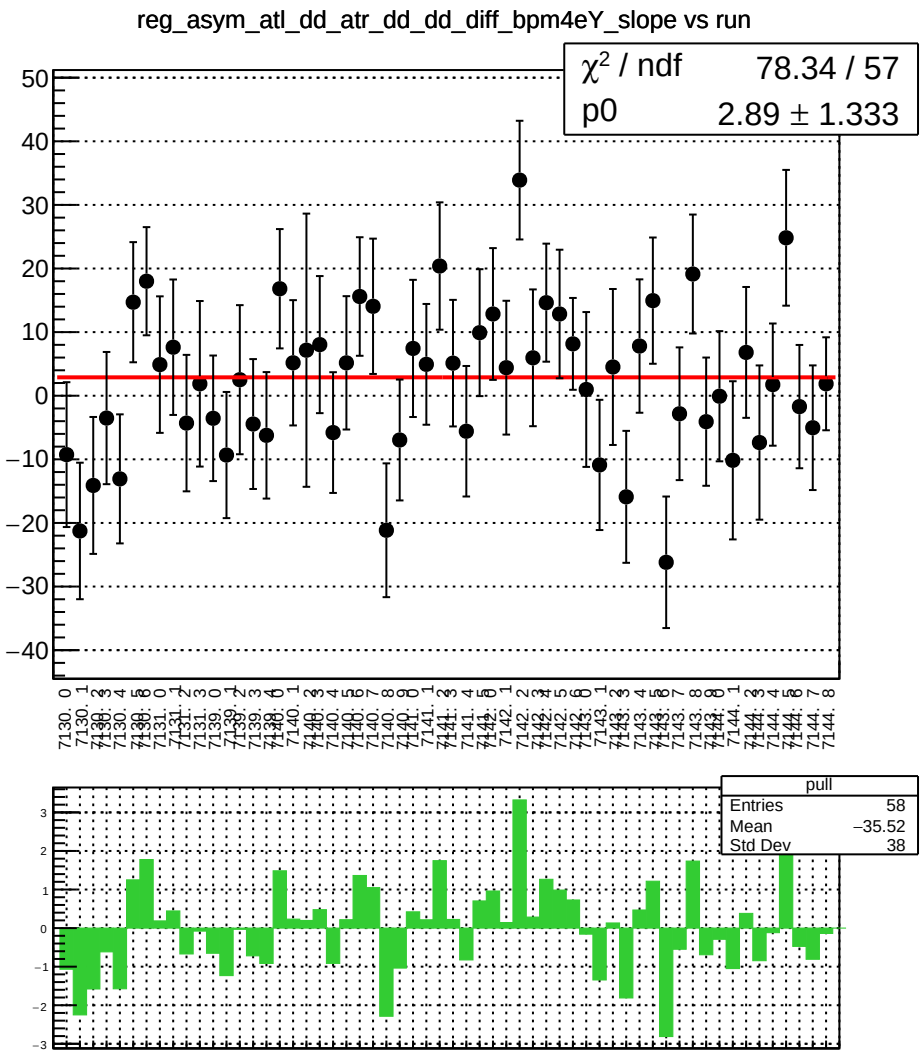

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 77.1 / 57
p0 30.72 ± 1.372
pull
Entries 58
Mean 3.417
Std Dev 14.99

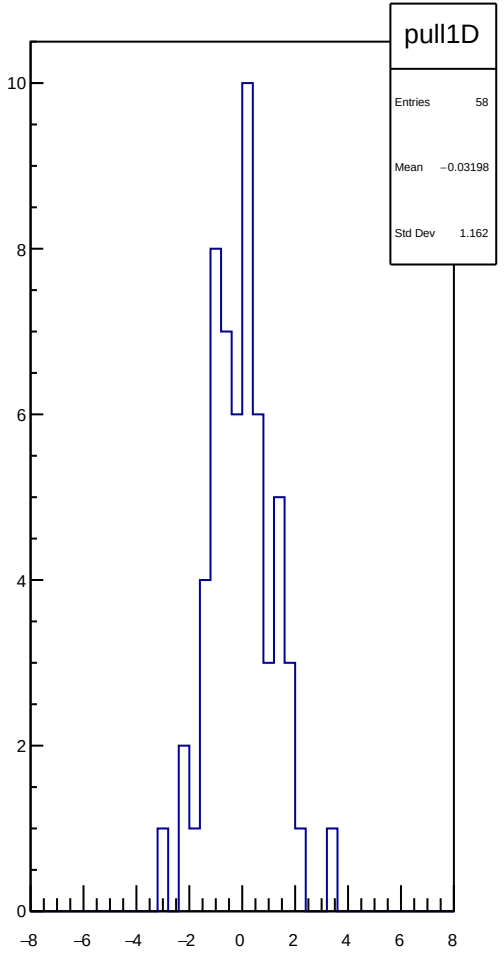

pull1D
Entries 58
Mean −0.1349
Std Dev 1.145

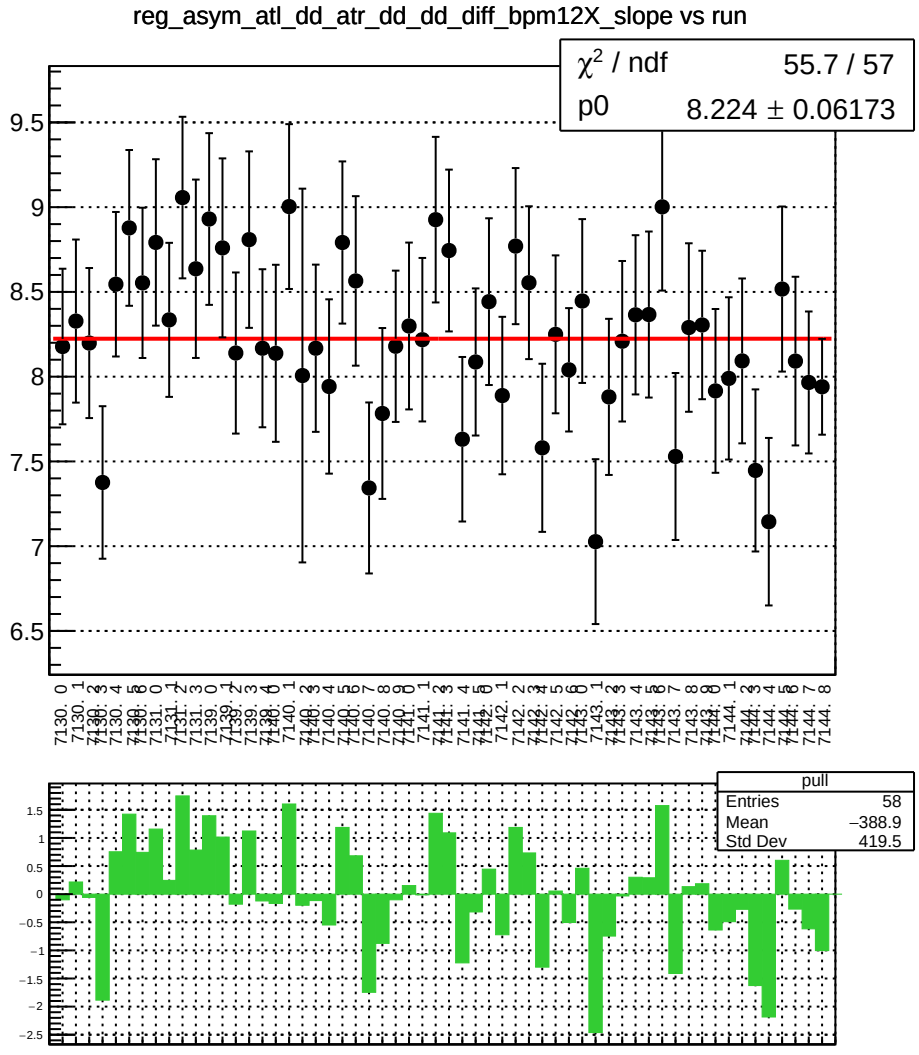

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 74.24 / 57
p0 −6.287 ± 1.246
pull
Entries 58
Mean −30.55
Std Dev 30.26

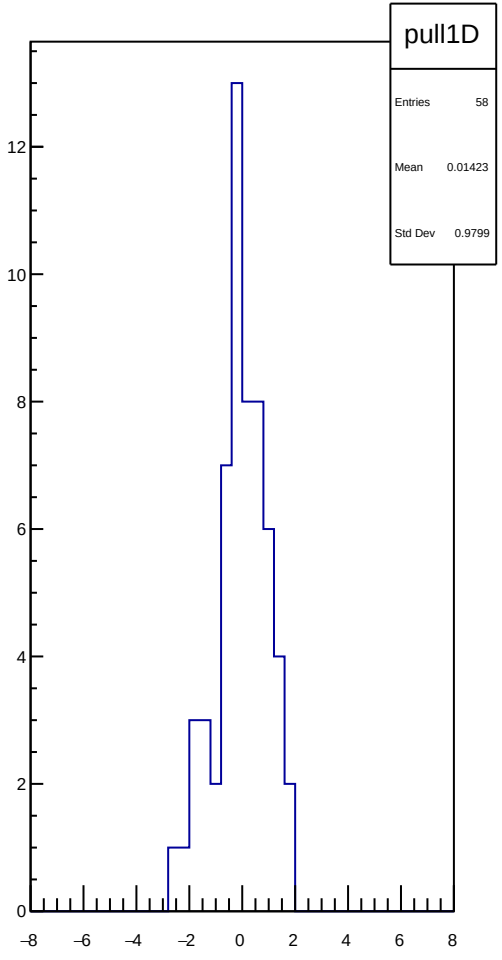

pull1D
Entries 58
Mean 0.03258
Std Dev 1.131

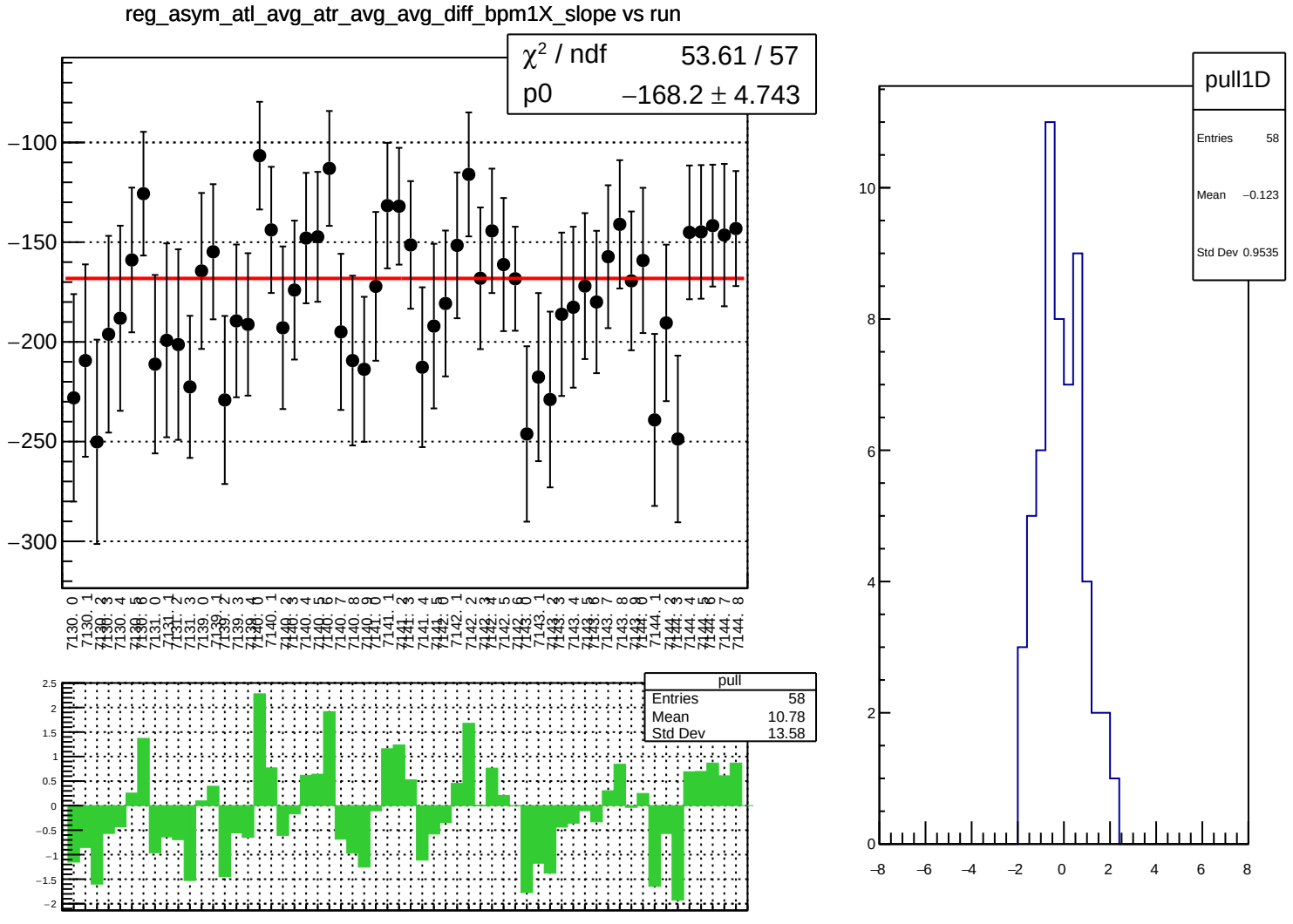

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.16 / 57
p0 33.99 ± 1.397
pull
Entries 58
Mean −0.8095
Std Dev 20
pull1D
Entries 58
Mean 0.146
Std Dev 1.203

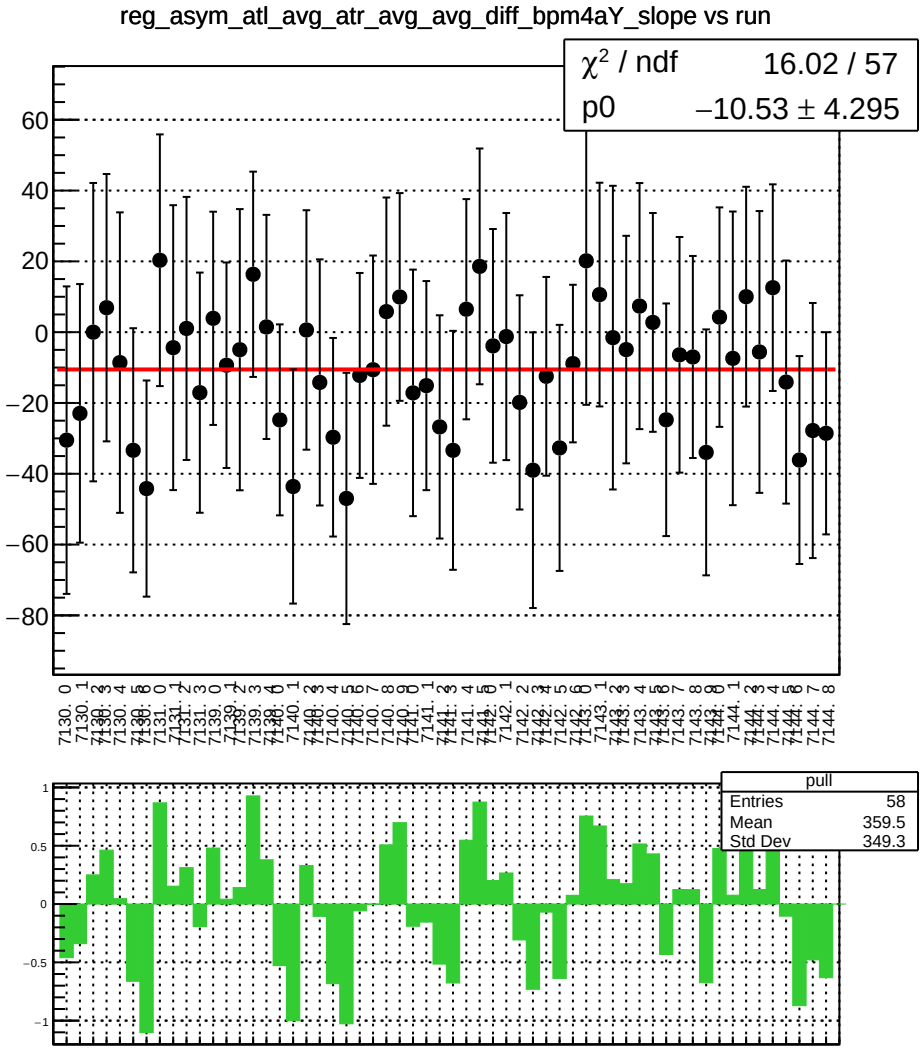

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.34 / 57
p0 2.89 ± 1.333
pull
Entries 58
Mean −35.52
Std Dev 38

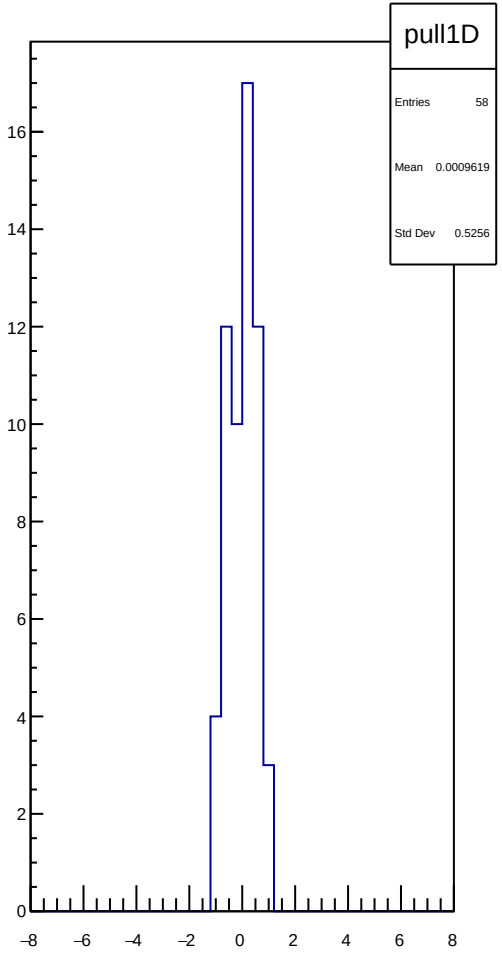

pull1D
Entries 58
Mean −0.03198
Std Dev 1.162

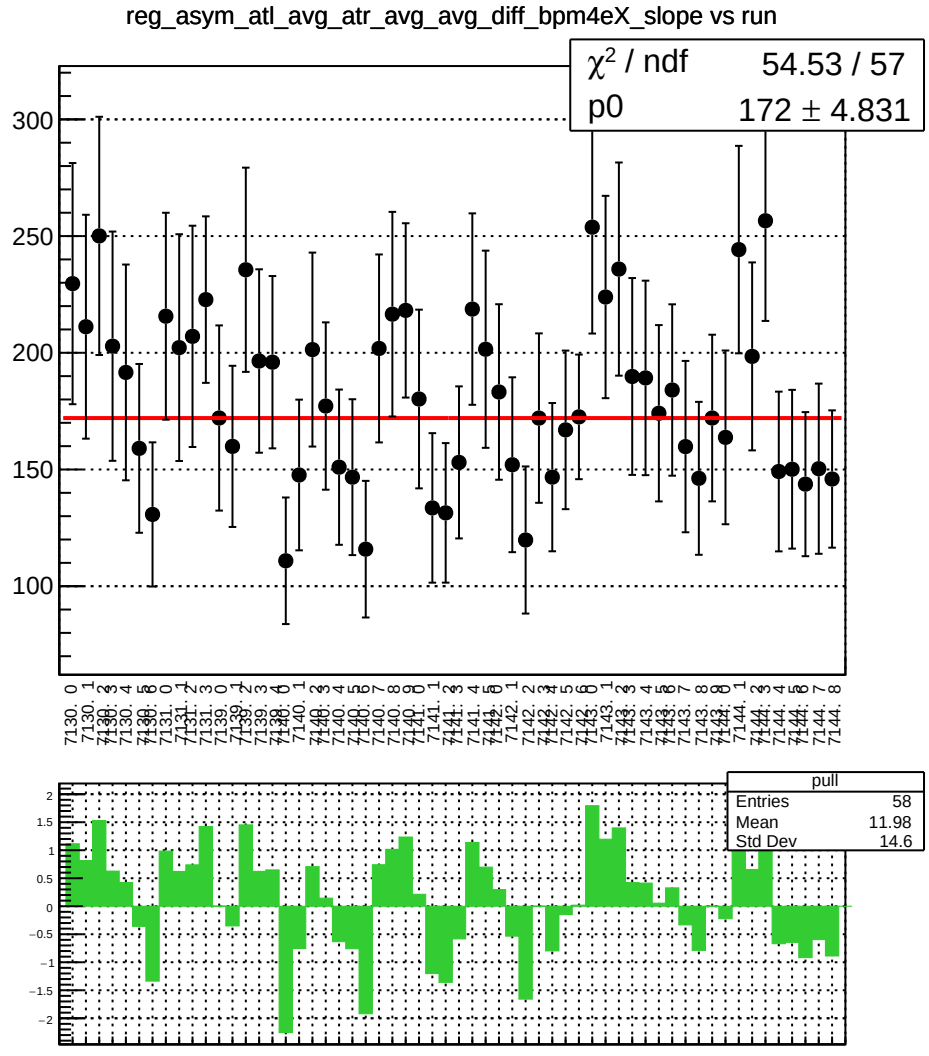

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 55.7 / 57
p0 8.224 ± 0.06173
pull
Entries 58
Mean −388.9
Std Dev 419.5

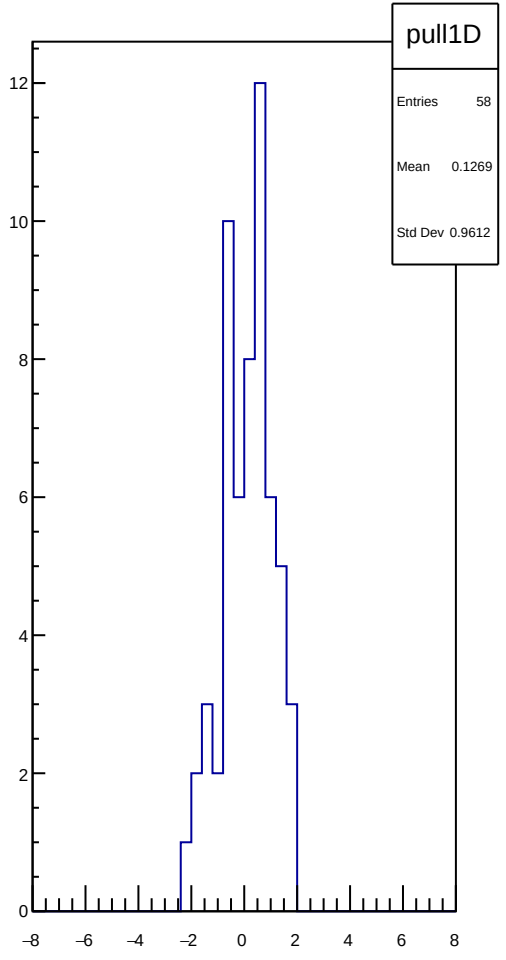

pull1D
Entries 58
Mean 0.01423
Std Dev 0.9799

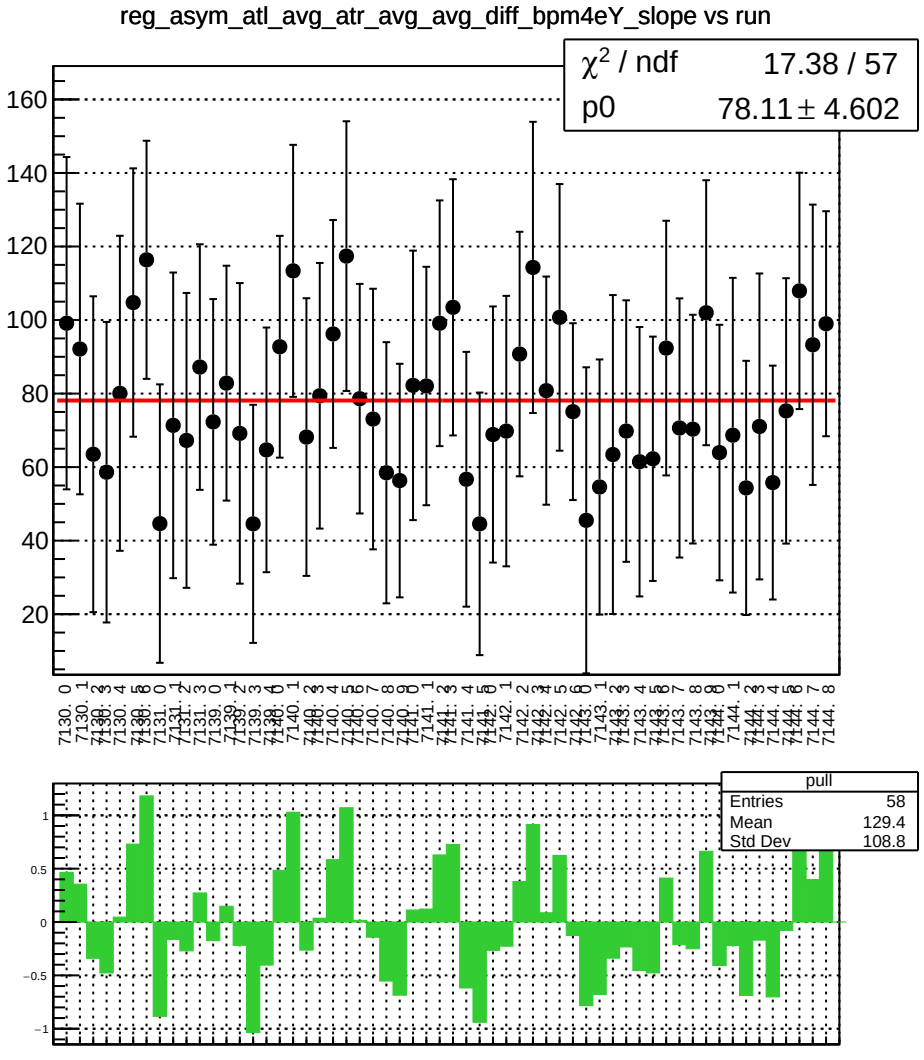

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 53.61 / 57
p0 −168.2 ± 4.743
pull
Entries 58
Mean 10.78
Std Dev 13.58
pull1D
Entries 58
Mean −0.123
Std Dev 0.9535

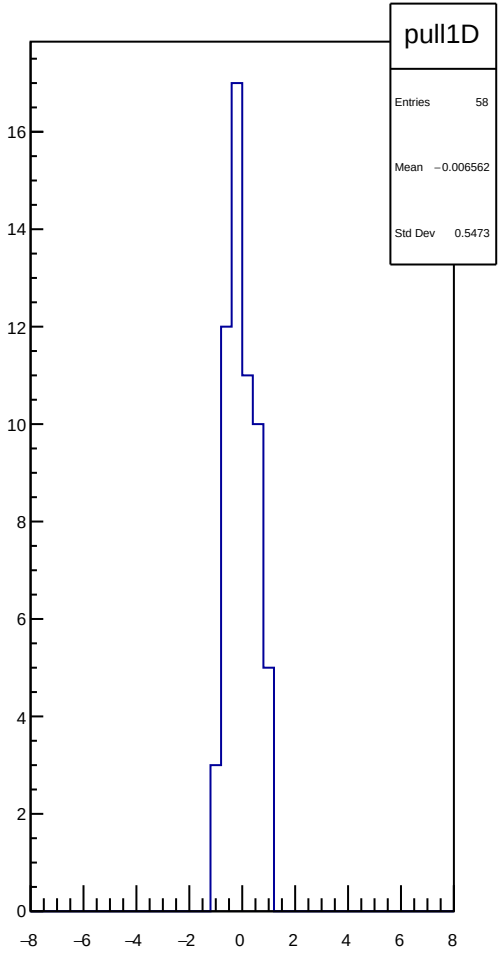

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.02 / 57
p0 −10.53 ± 4.295
pull
Entries 58
Mean 359.5
Std Dev 349.3

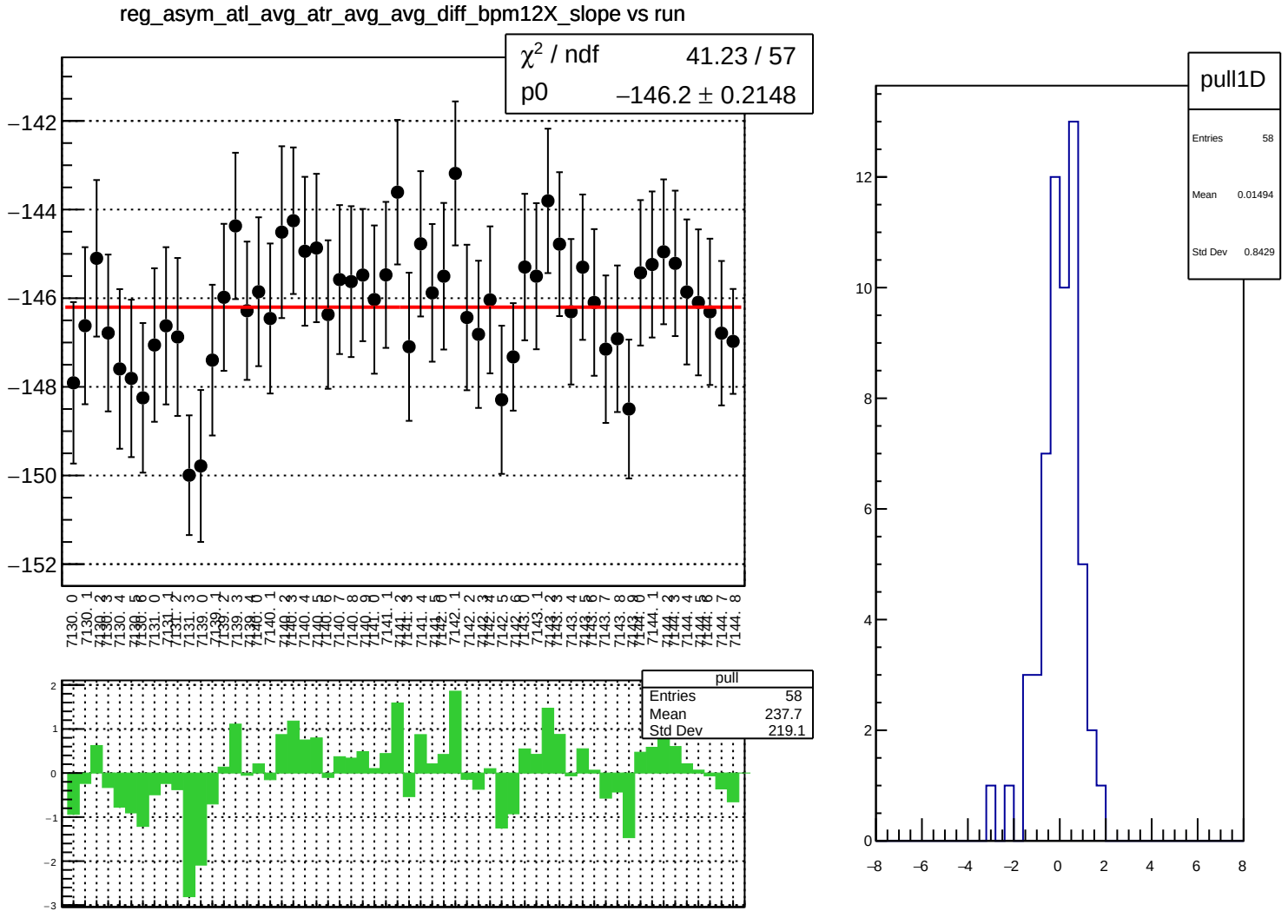

pull1D
Entries 58
Mean 0.0009619
Std Dev 0.5256

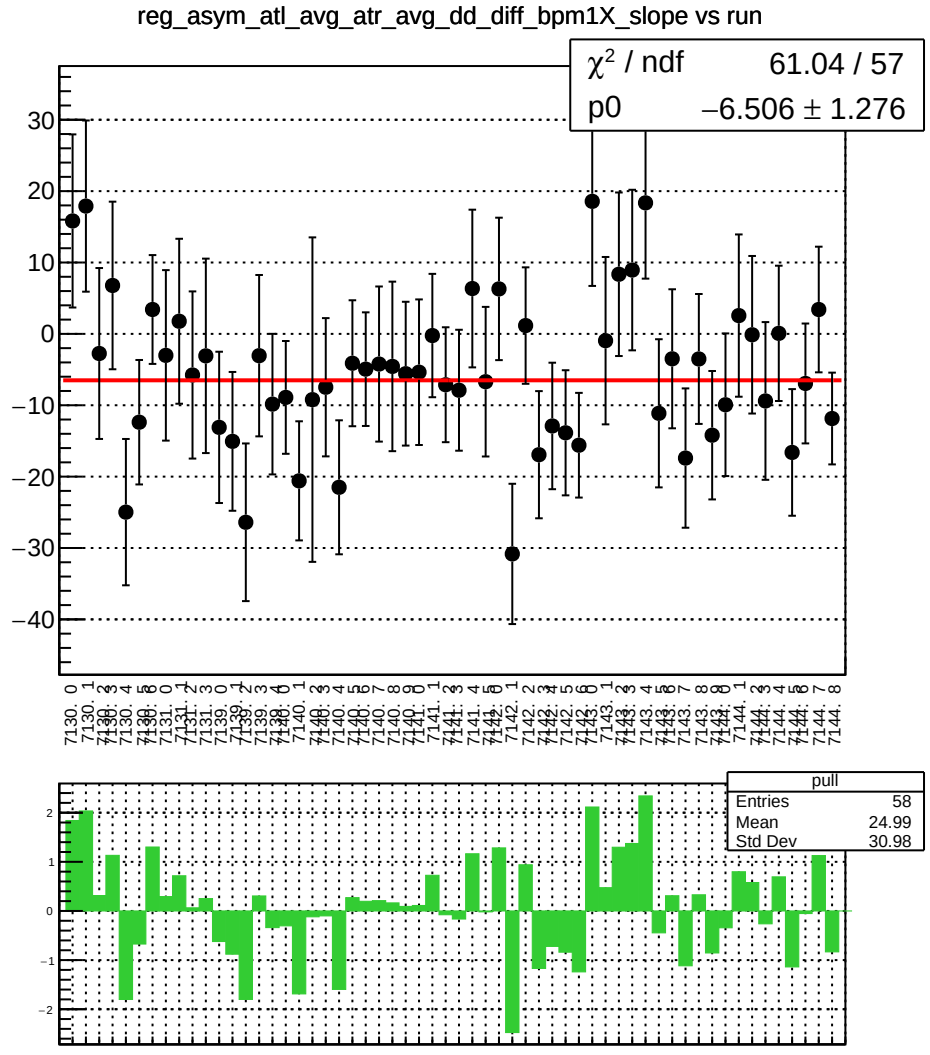

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.53 / 57
p0 172 ± 4.831
300
250
200
150
100
pull
Entries 58
Mean 11.98
Std Dev 14.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

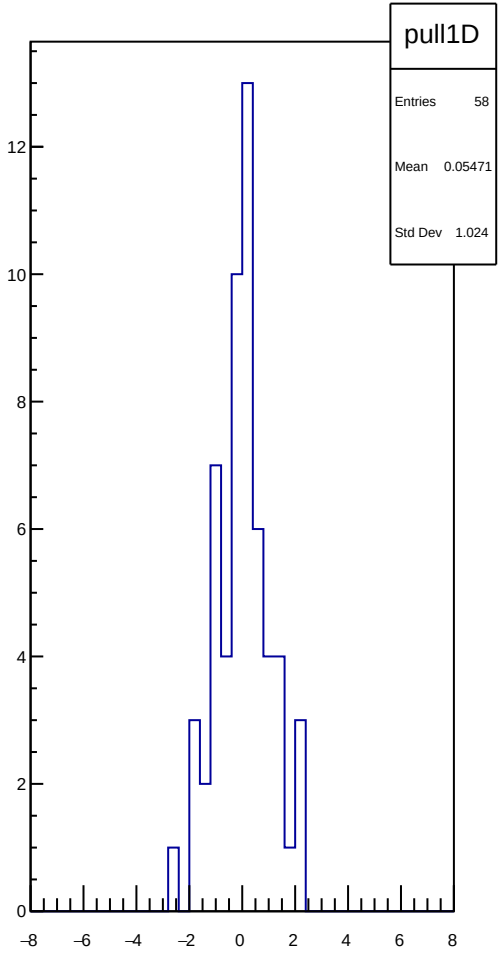

pull1D
Entries 58
Mean 0.1269
Std Dev 0.9612
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

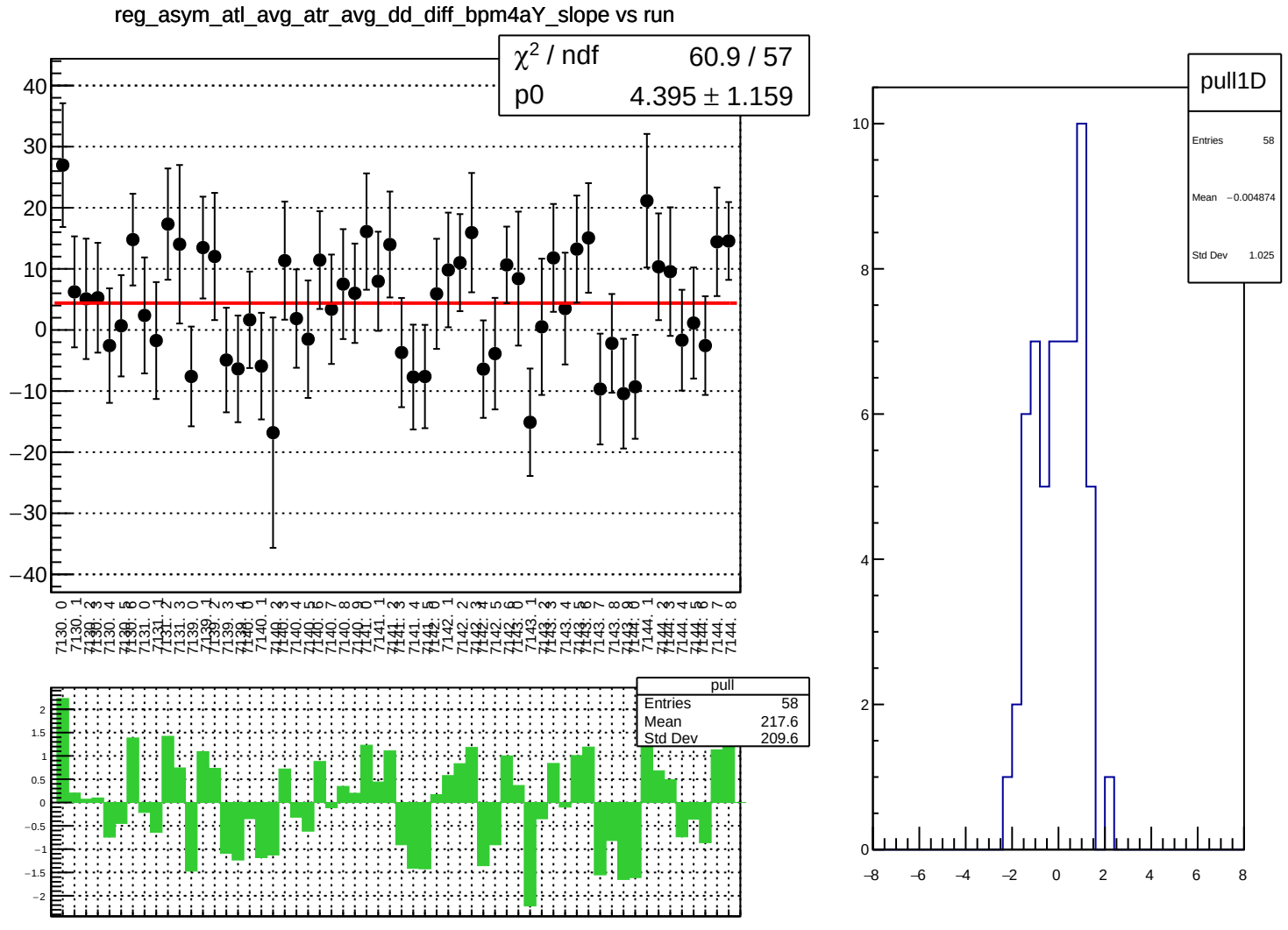

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.38 / 57
p0 78.11 ± 4.602
pull
Entries 58
Mean 129.4
Std Dev 108.8

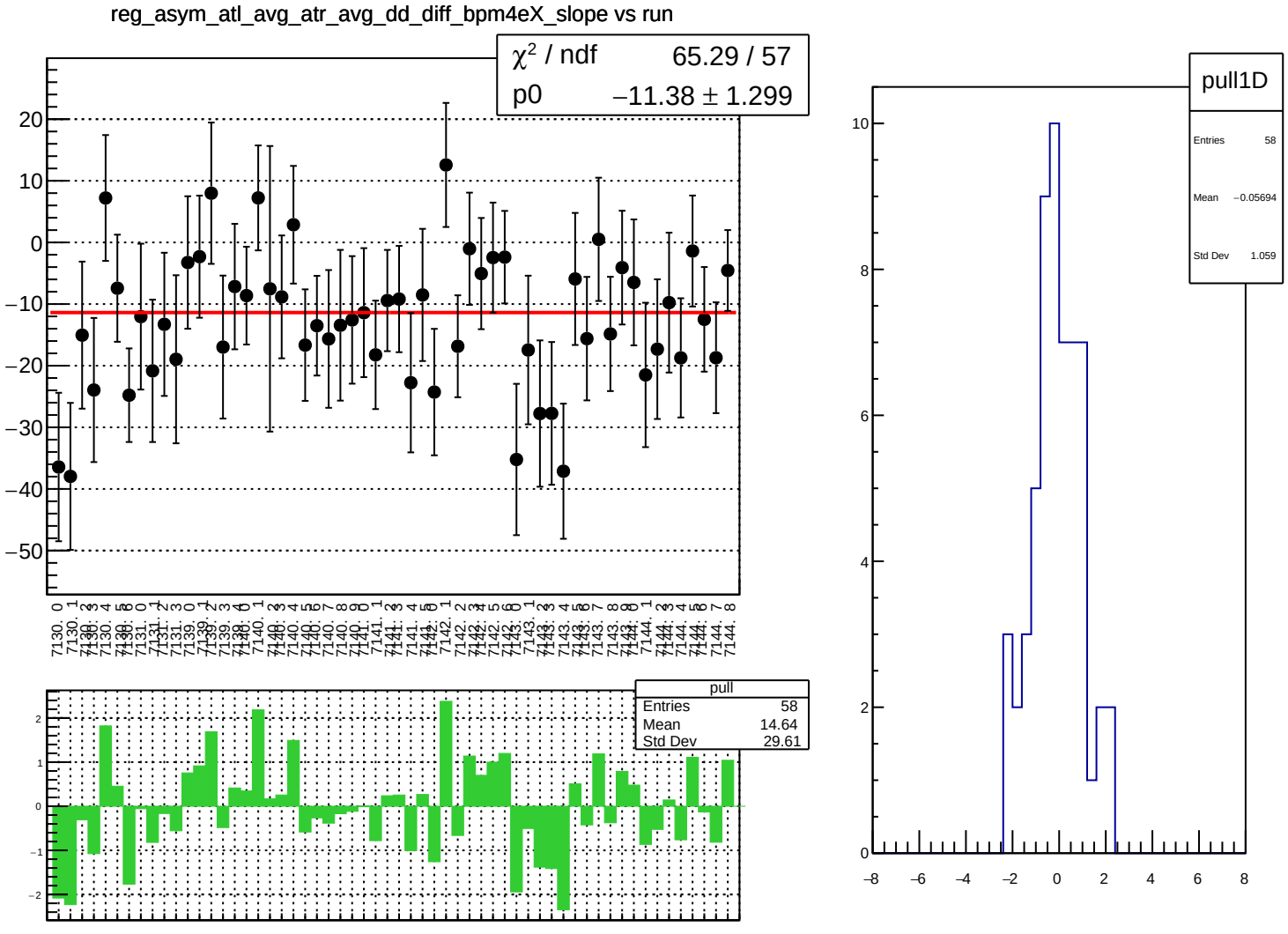

pull1D
Entries 58
Mean −0.006562
Std Dev 0.5473

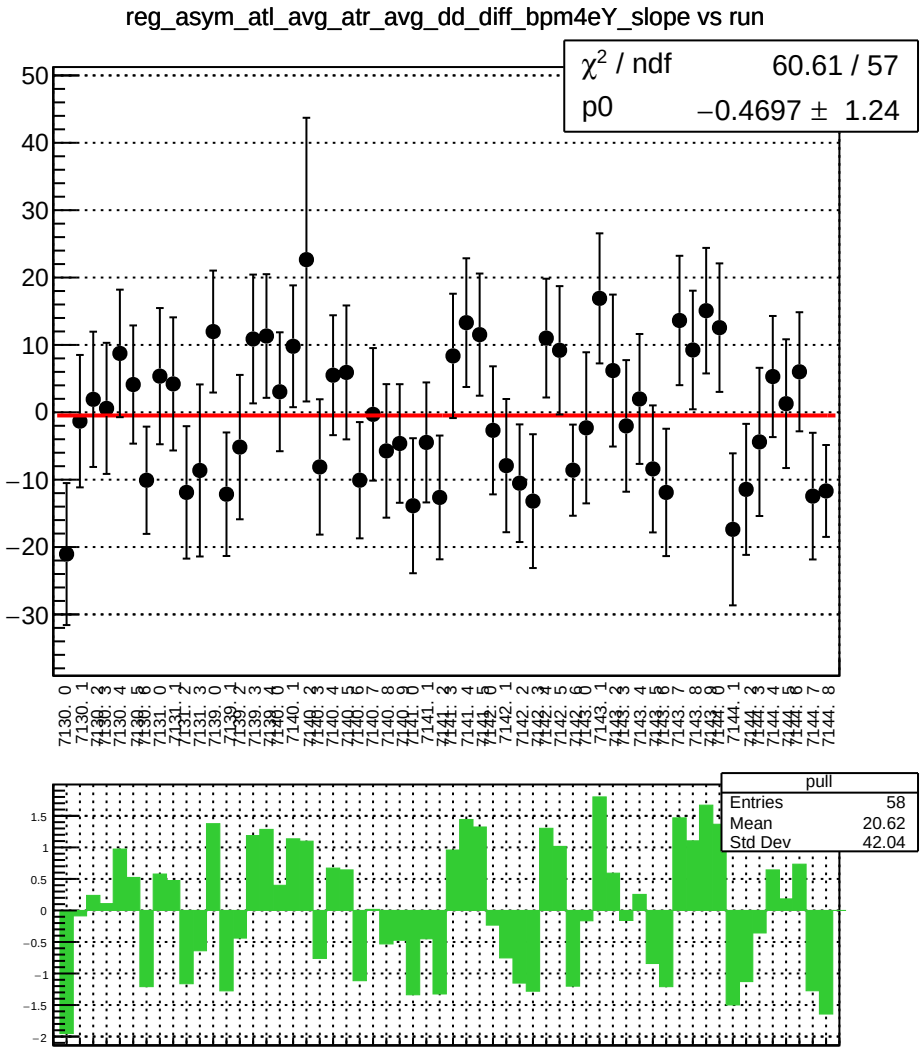

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 41.23 / 57
p0 −146.2 ± 0.2148
pull
Entries 58
Mean 237.7
Std Dev 219.1
pull1D
Entries 58
Mean 0.01494
Std Dev 0.8429

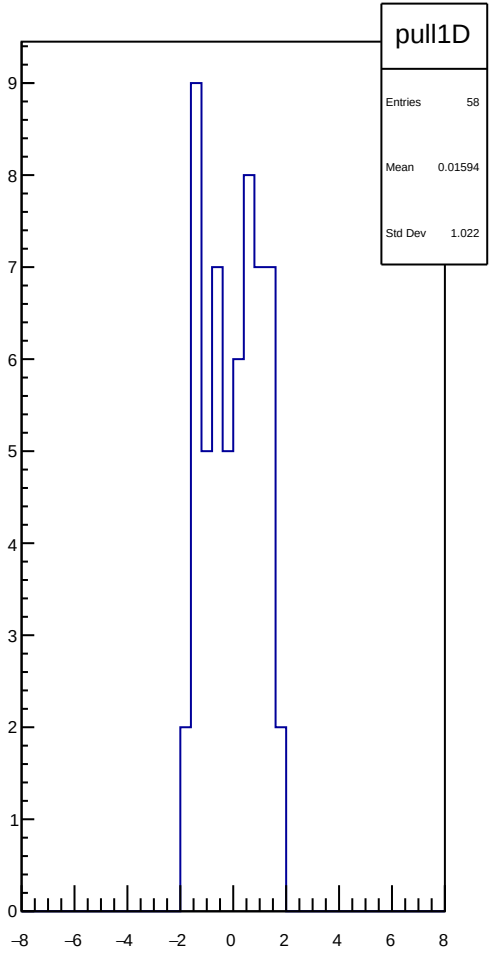

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 61.04 / 57
p0 −6.506 ± 1.276
pull
Entries 58
Mean 24.99
Std Dev 30.98

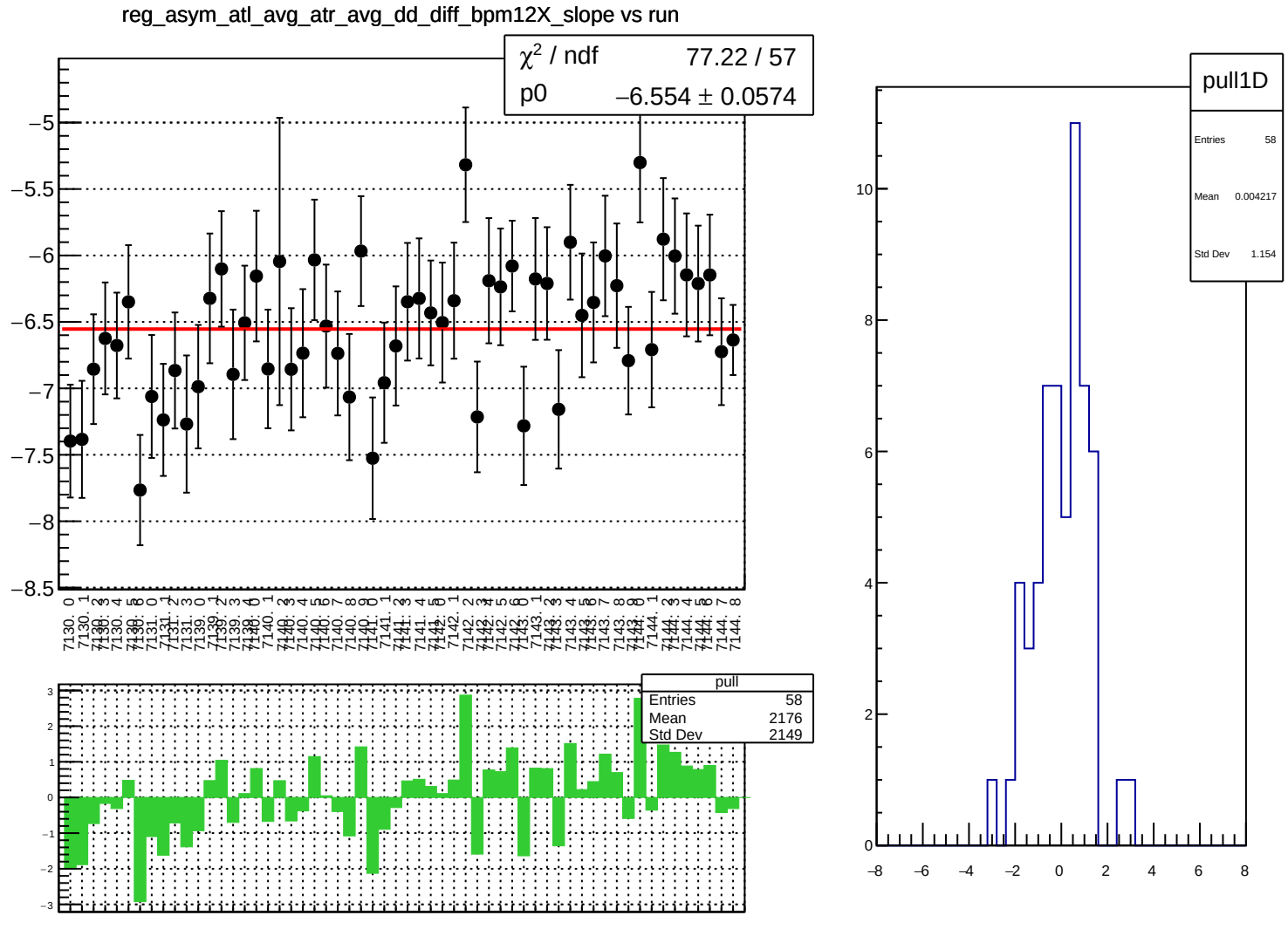

pull1D
Entries 58
Mean 0.05471
Std Dev 1.024

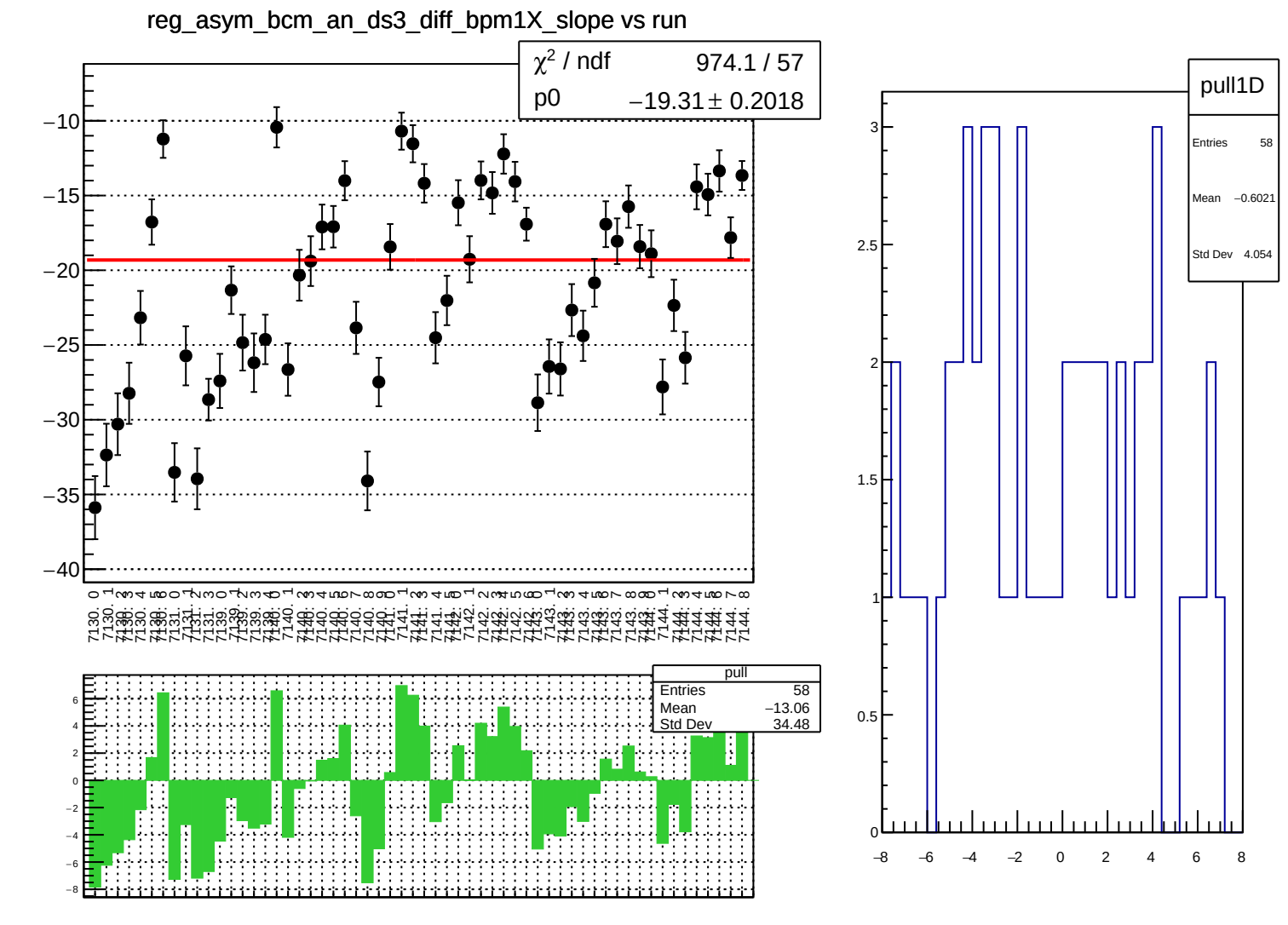

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.9 / 57
p0 4.395 ± 1.159
pull
Entries 58
Mean 217.6
Std Dev 209.6
pull1D
Entries 58
Mean −0.004874
Std Dev 1.025

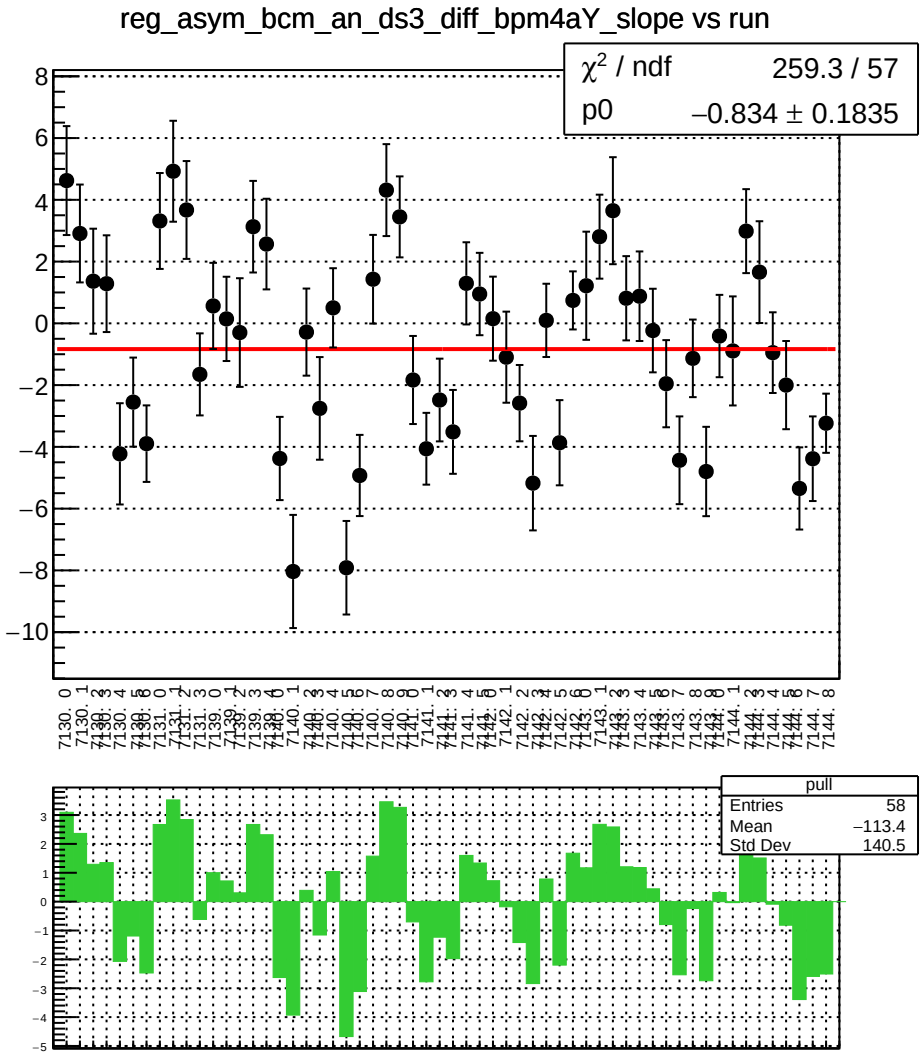

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 65.29 / 57
p0 −11.38 ± 1.299
pull
Entries 58
Mean 14.64
Std Dev 29.61
pull1D
Entries 58
Mean −0.05694
Std Dev 1.059

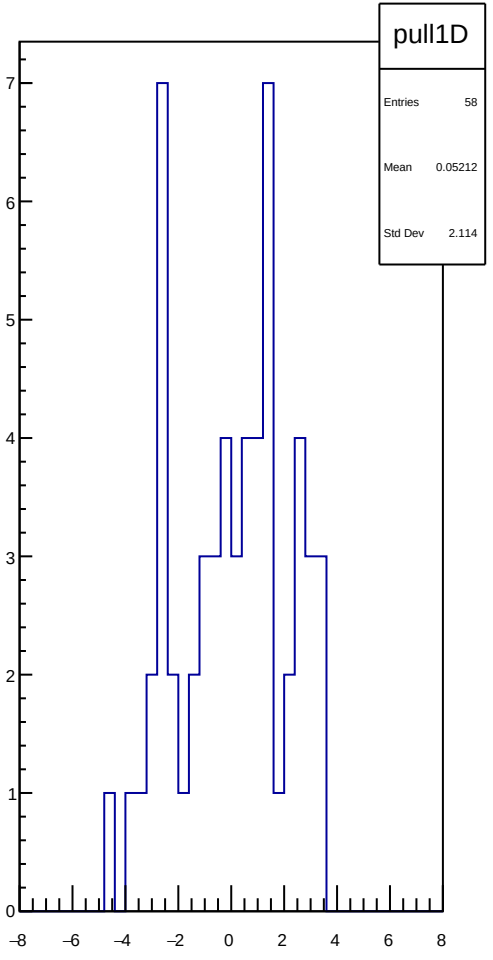

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.61 / 57
p0 −0.4697 ± 1.24
pull
Entries 58
Mean 20.62
Std Dev 42.04

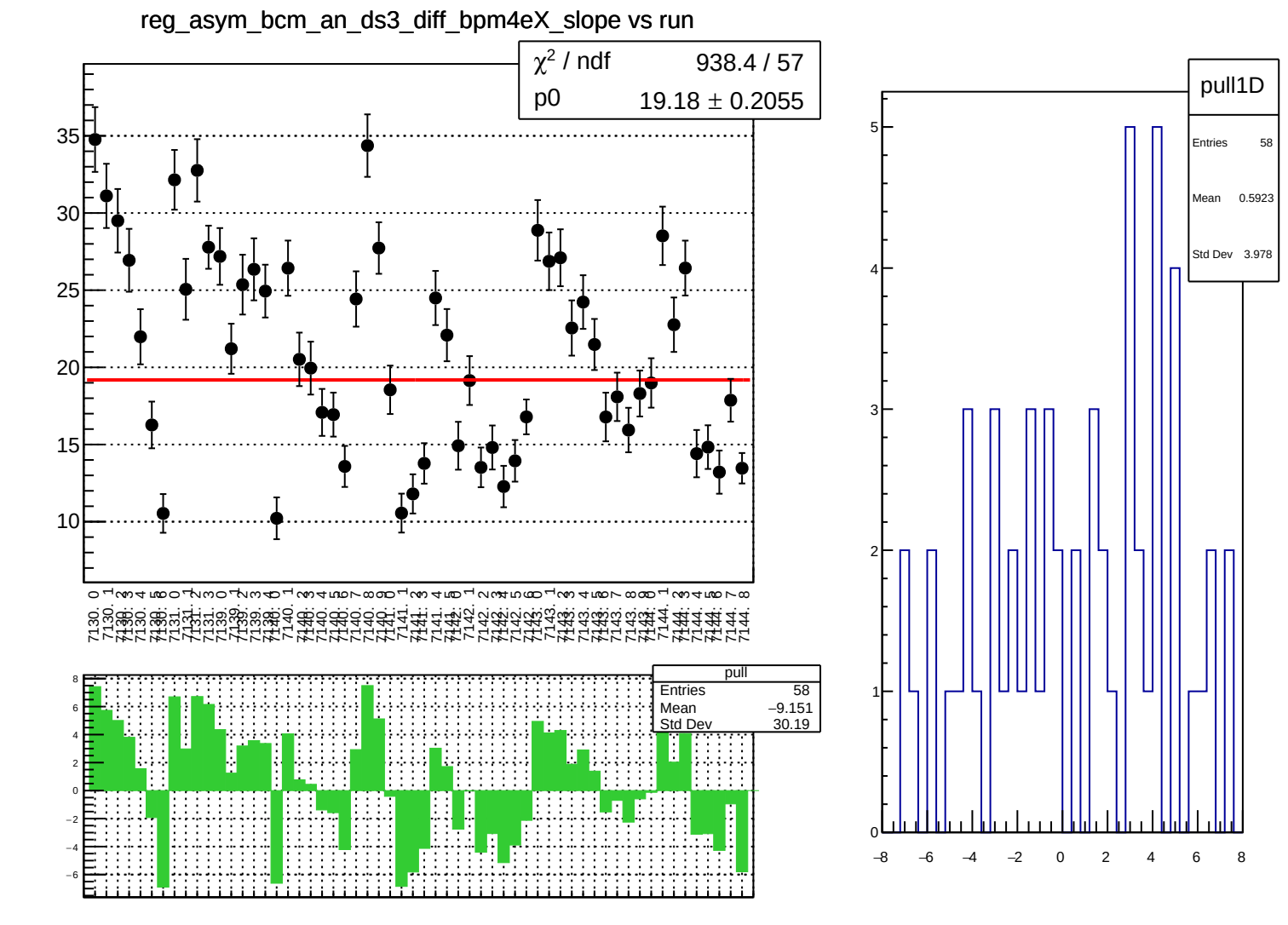

pull1D
Entries 58
Mean 0.01594
Std Dev 1.022

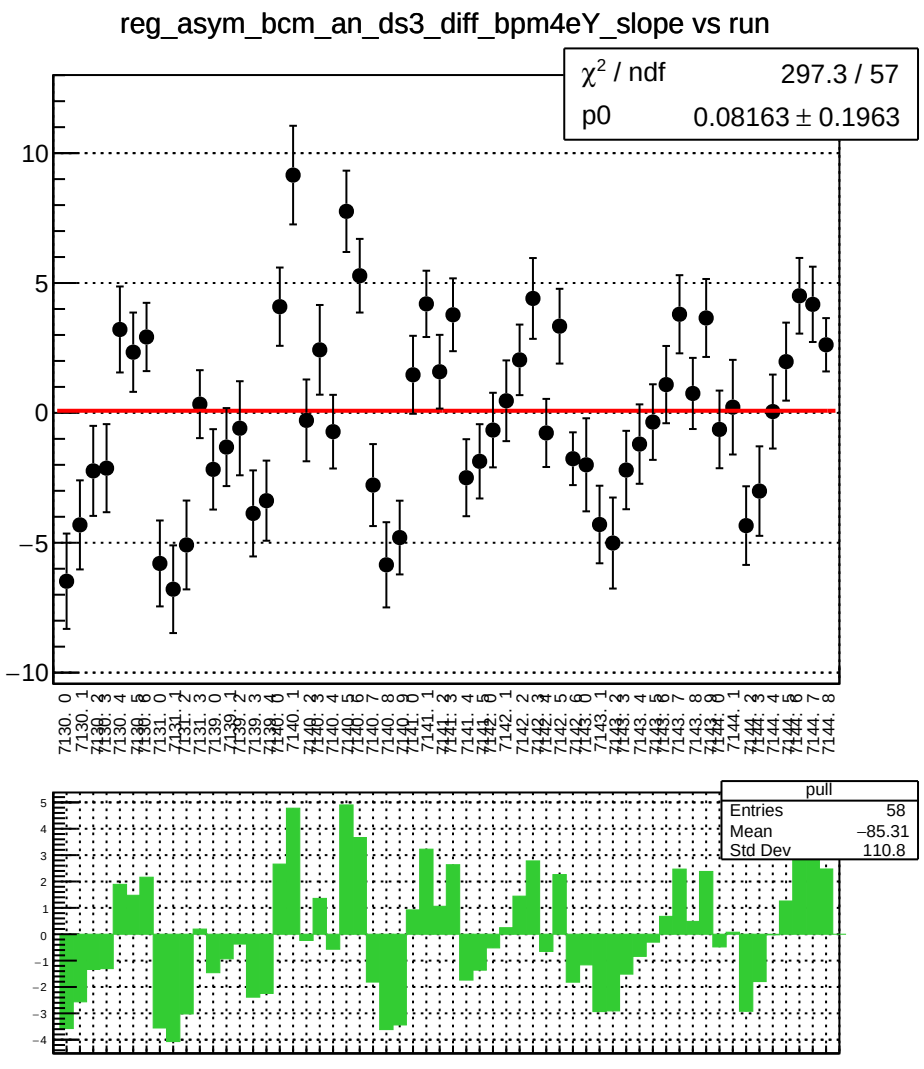

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 77.22 / 57
p0 −6.554 ± 0.0574
pull
Entries 58
Mean 2176
Std Dev 2149
pull1D
Entries 58
Mean 0.004217
Std Dev 1.154

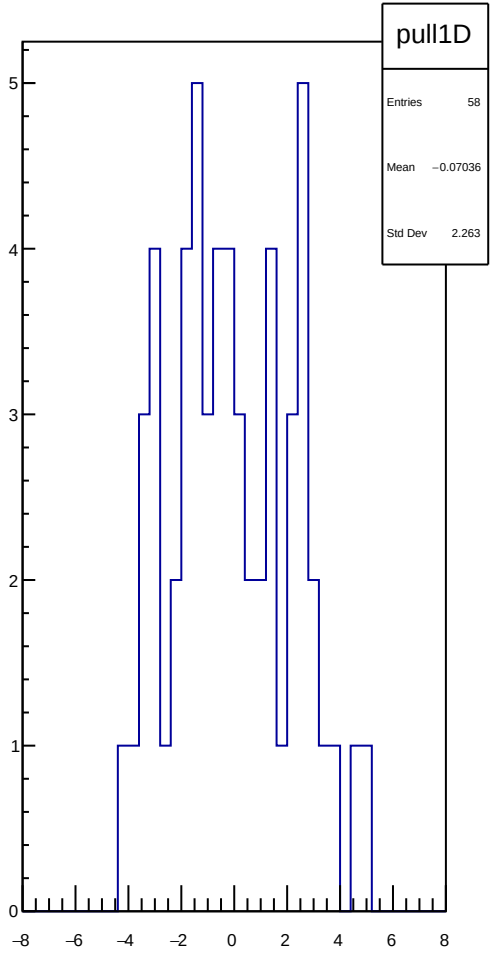

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 974.1 / 57
p0 −19.31 ± 0.2018
pull
Entries 58
Mean −13.06
Std Dev 34.48
pull1D
Entries 58
Mean −0.6021
Std Dev 4.054

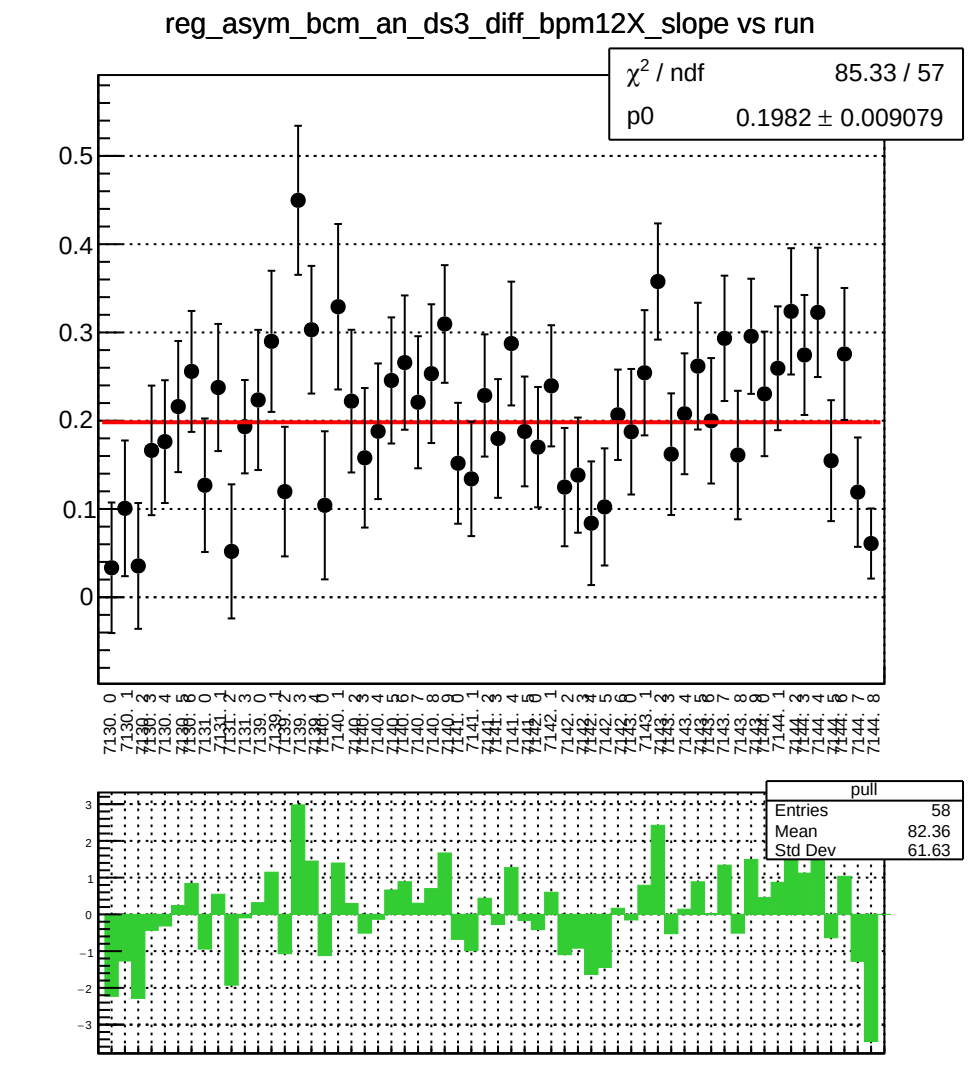

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 259.3 / 57
p0 −0.834 ± 0.1835
pull
Entries 58
Mean −113.4
Std Dev 140.5

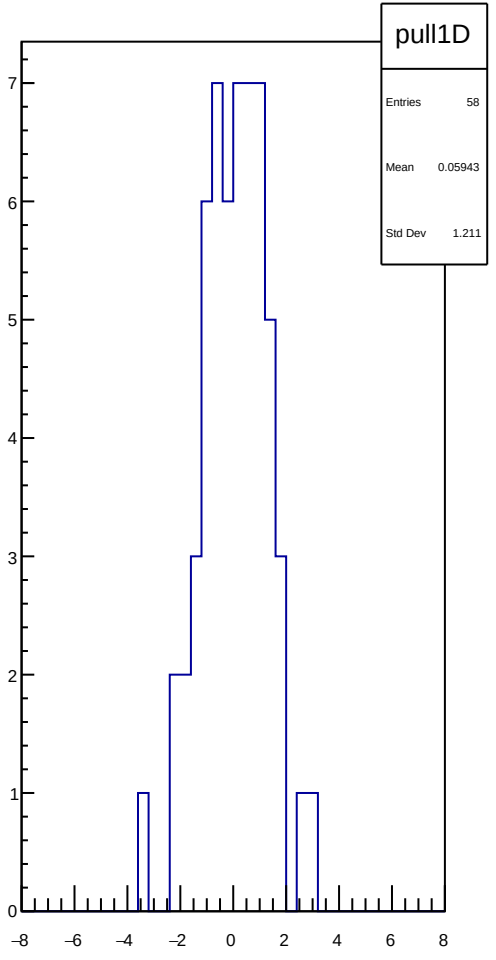

pull1D
Entries 58
Mean 0.05212
Std Dev 2.114

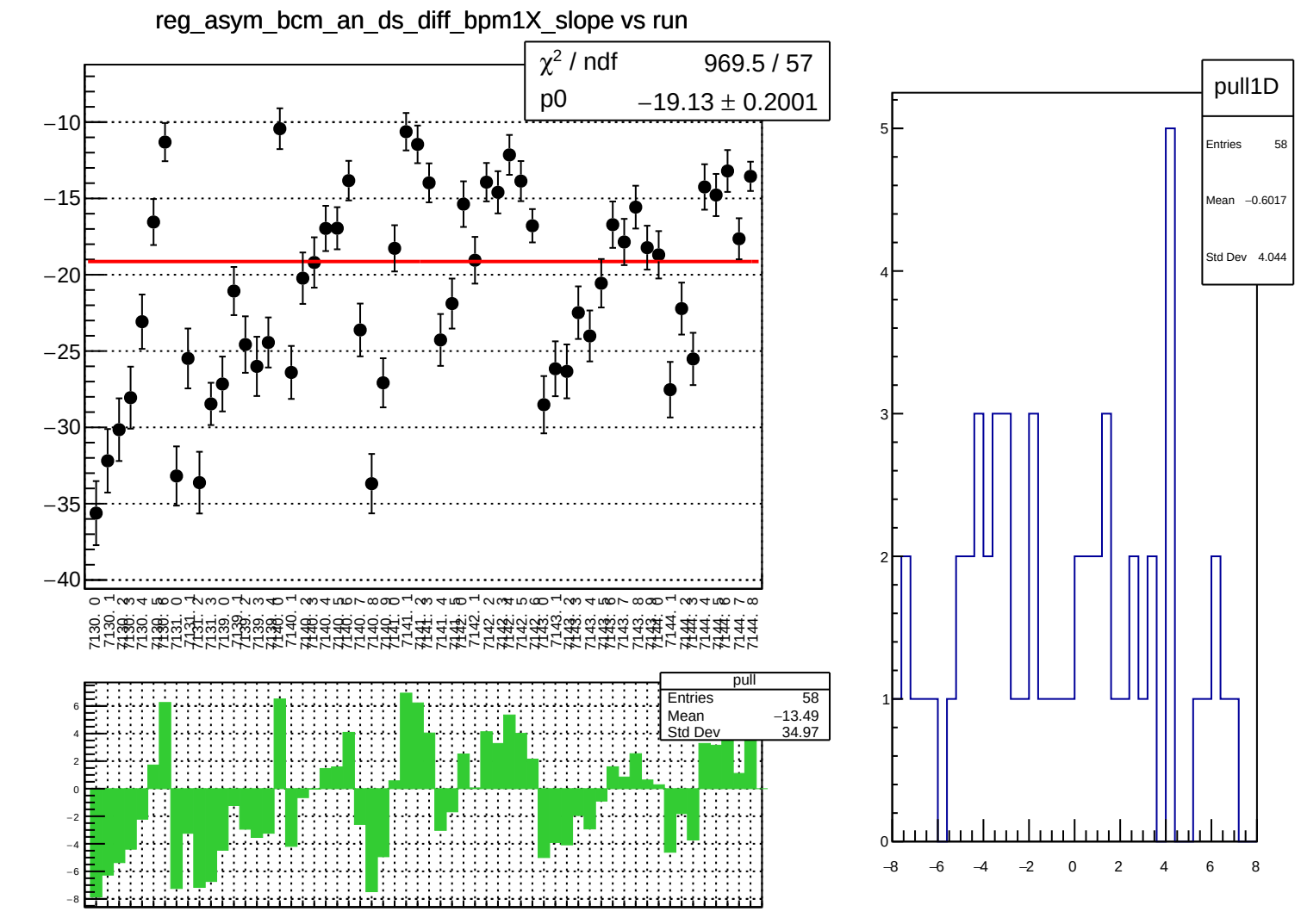

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 938.4 / 57
p0 19.18 ± 0.2055
pull
Entries 58
Mean −9.151
Std Dev 30.19
pull1D
Entries 58
Mean 0.5923
Std Dev 3.978

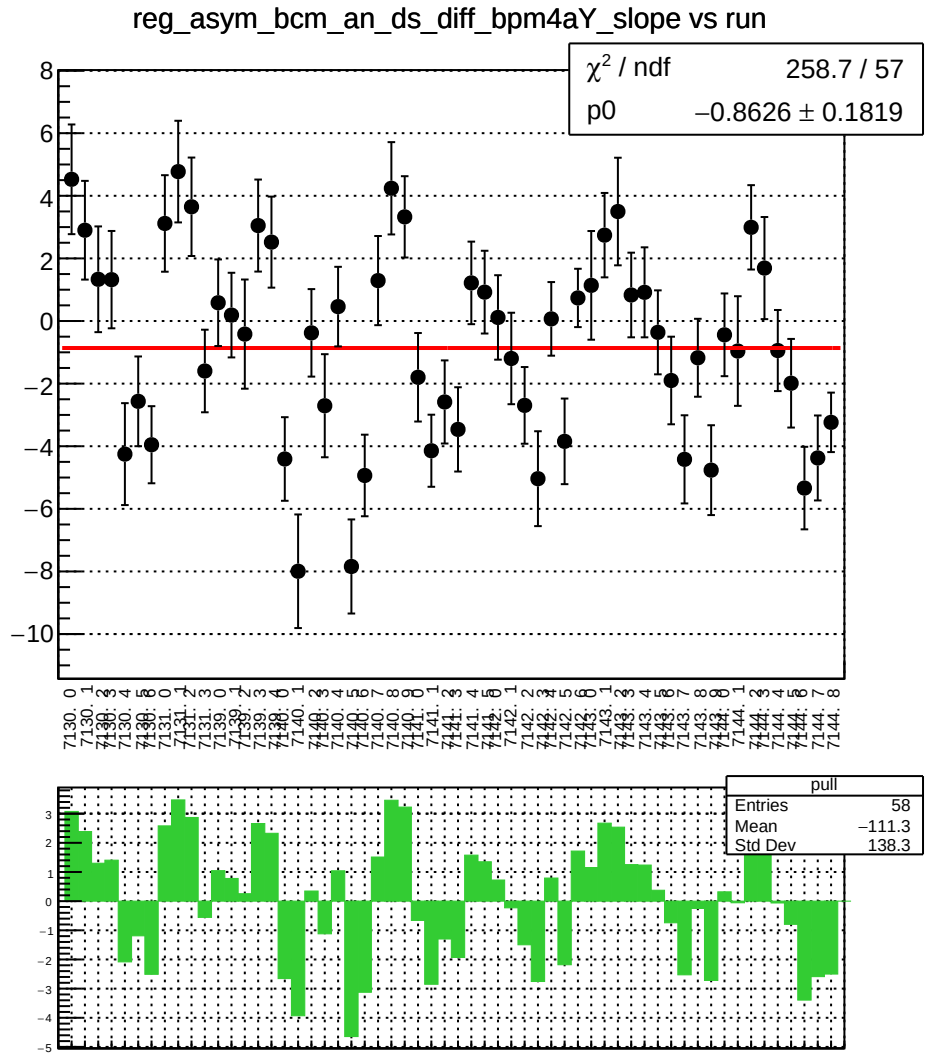

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 297.3 / 57
p0 0.08163 ± 0.1963
pull
Entries 58
Mean −85.31
Std Dev 110.8

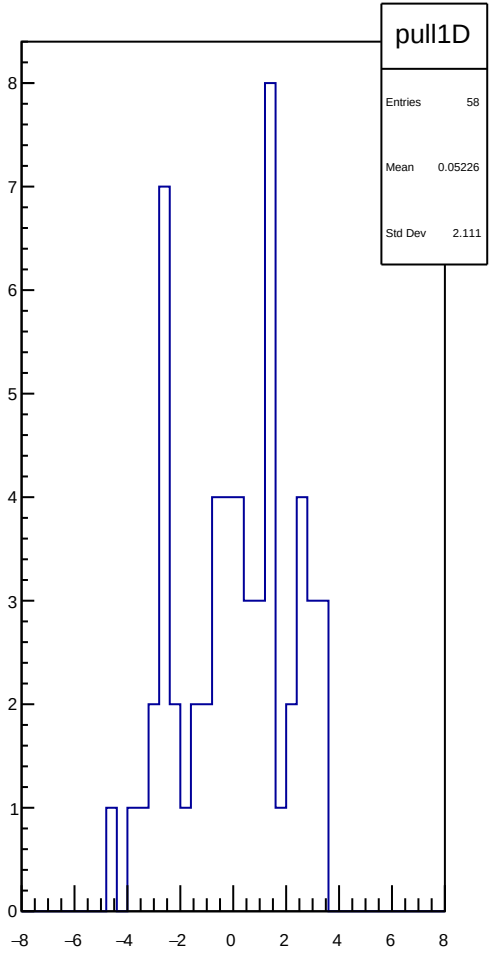

pull1D
Entries 58
Mean −0.07036
Std Dev 2.263

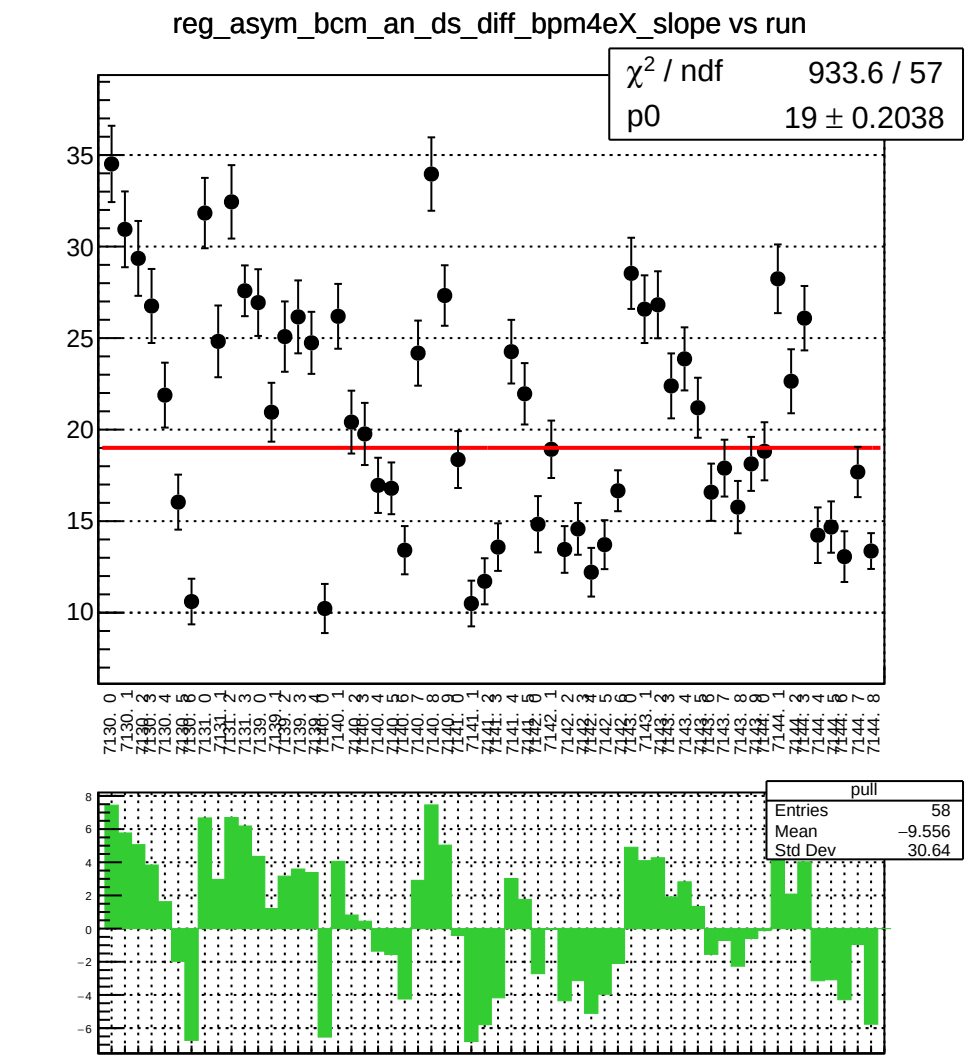

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 85.33 / 57
p0 0.1982 ± 0.009079
pull
Entries 58
Mean 82.36
Std Dev 61.63

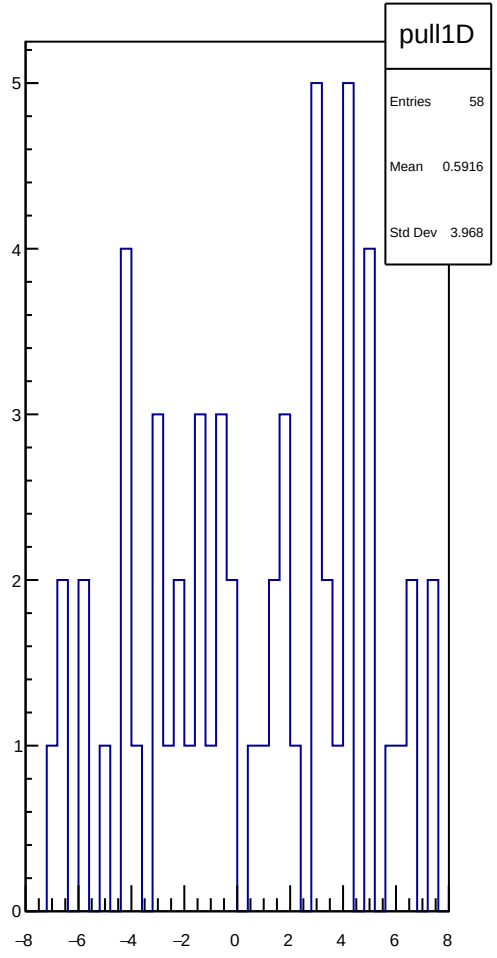

pull1D
Entries 58
Mean 0.05943
Std Dev 1.211

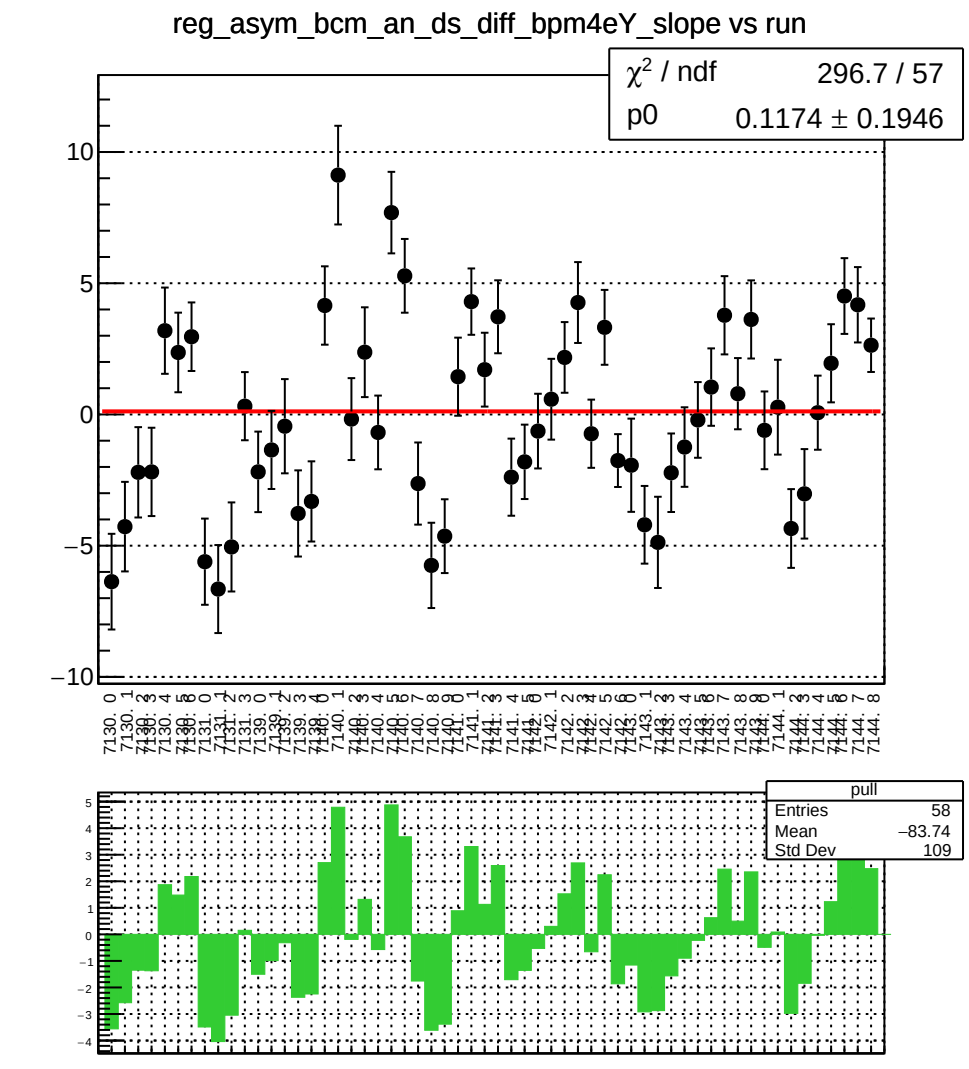

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 969.5 / 57
p0 −19.13 ± 0.2001
pull
Entries 58
Mean −13.49
Std Dev 34.97
pull1D
Entries 58
Mean −0.6017
Std Dev 4.044

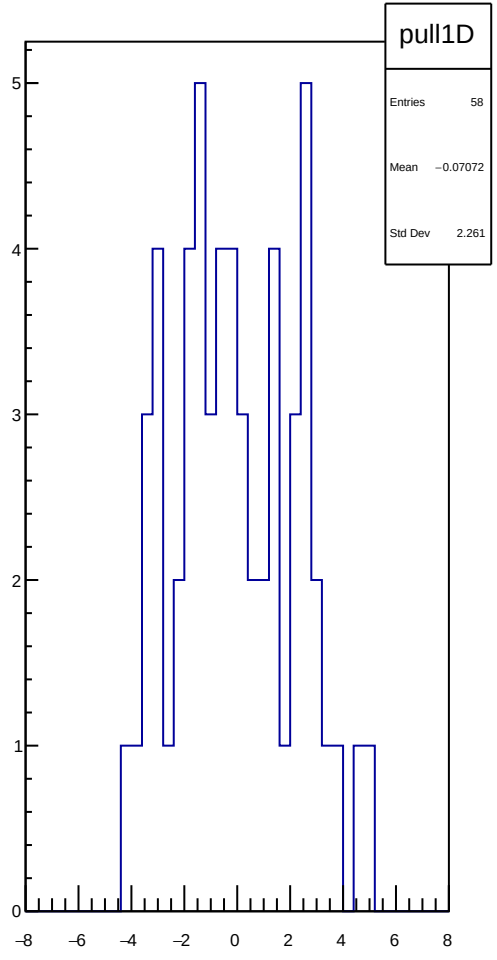

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 258.7 / 57
p0 −0.8626 ± 0.1819
pull
Entries 58
Mean −111.3
Std Dev 138.3

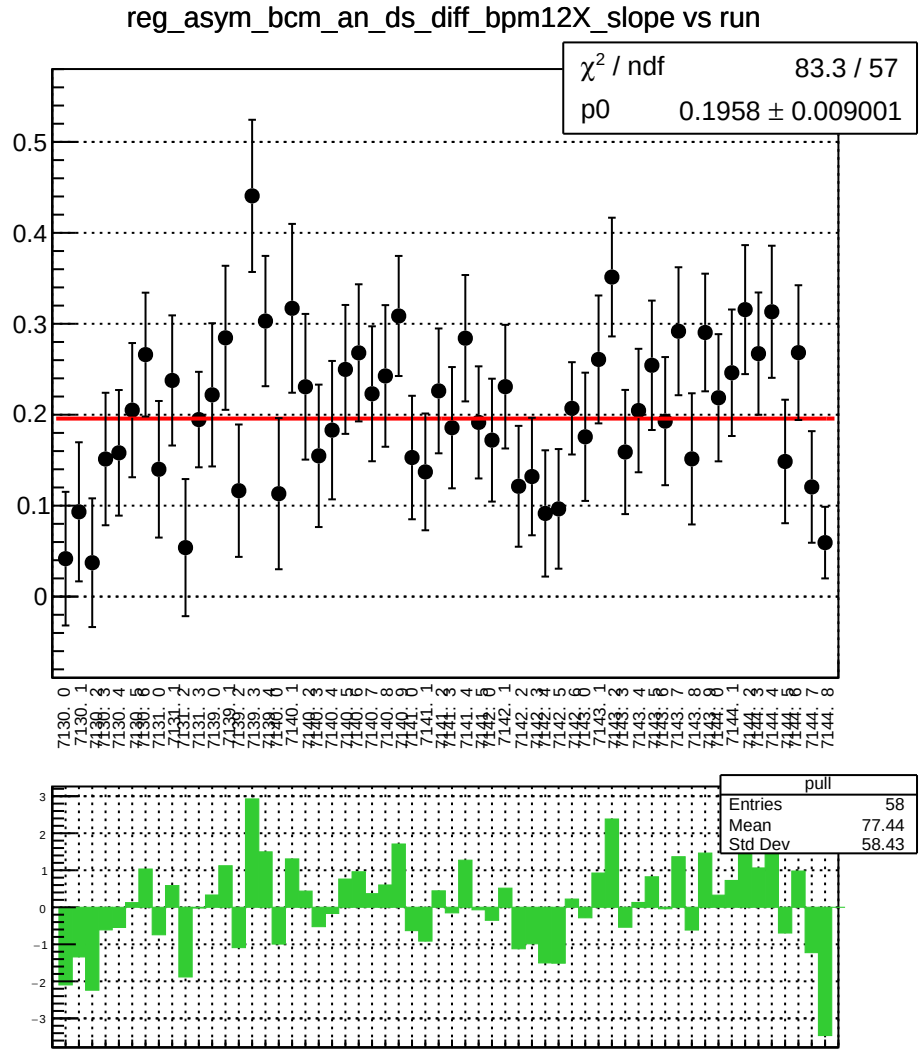

pull1D
Entries 58
Mean 0.05226
Std Dev 2.111

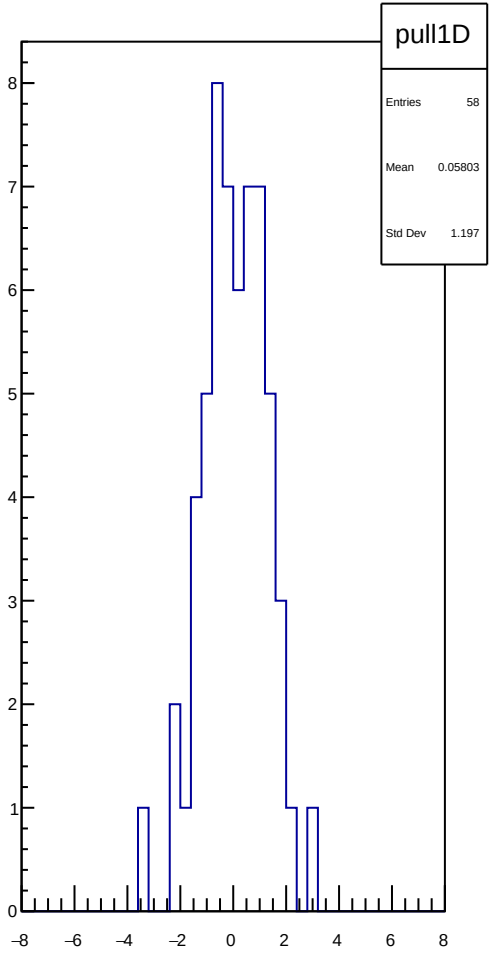

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 933.6 / 57
p0 19 ± 0.2038
pull
Entries 58
Mean −9.556
Std Dev 30.64

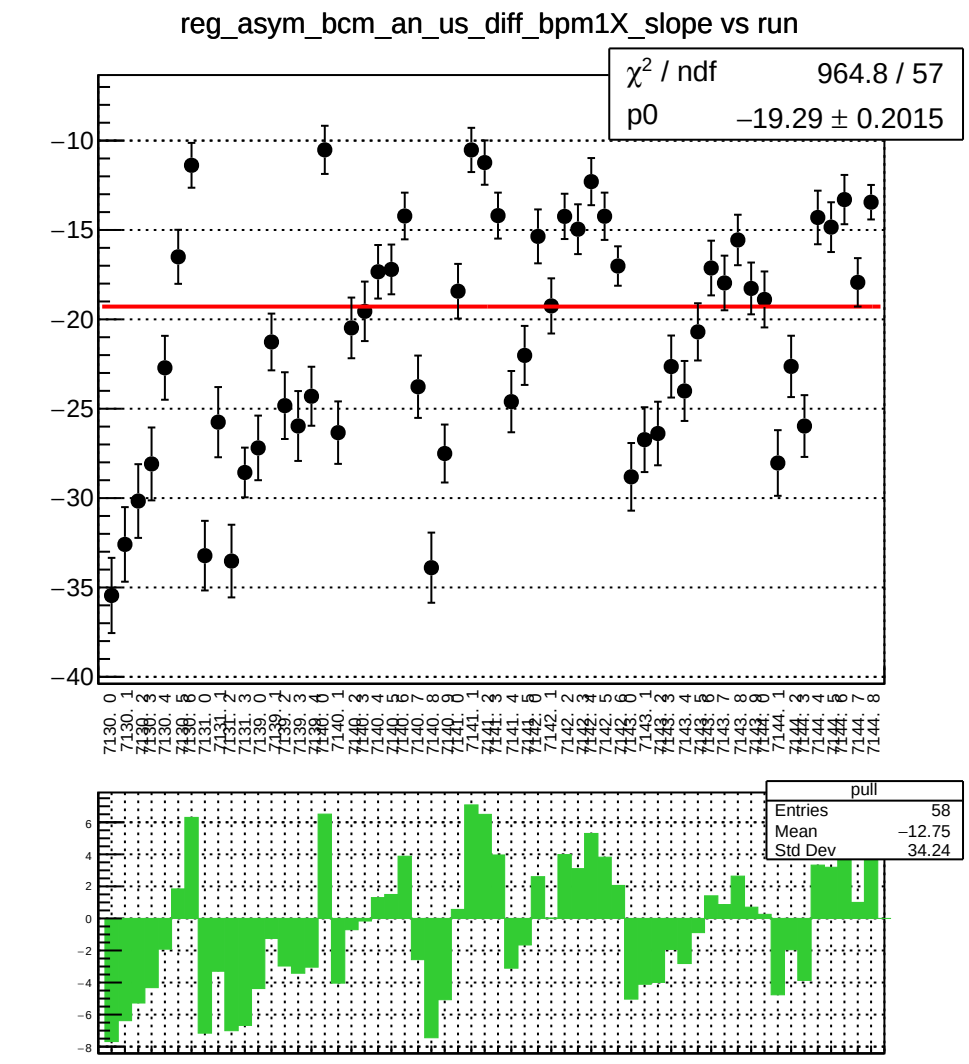

pull1D
Entries 58
Mean 0.5916
Std Dev 3.968

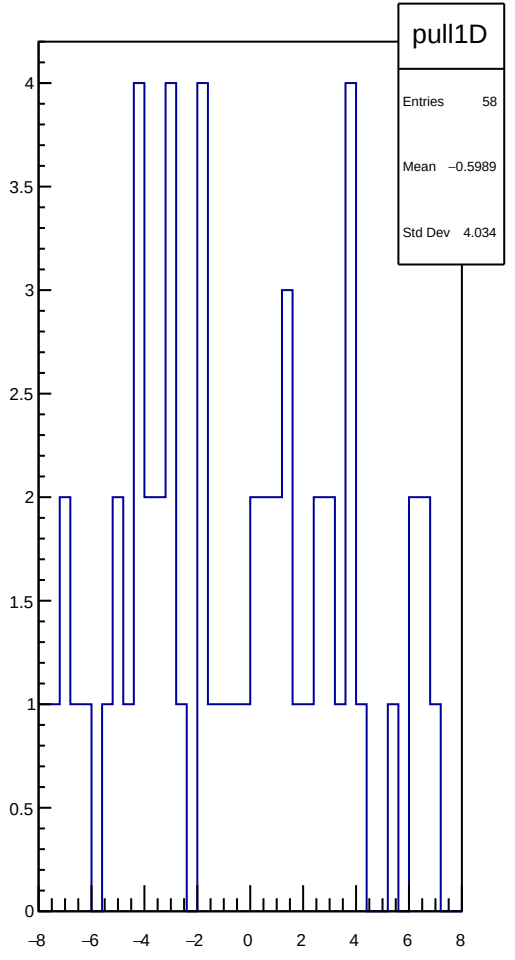

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 296.7 / 57
p0 0.1174 ± 0.1946
pull
Entries 58
Mean −83.74
Std Dev 109

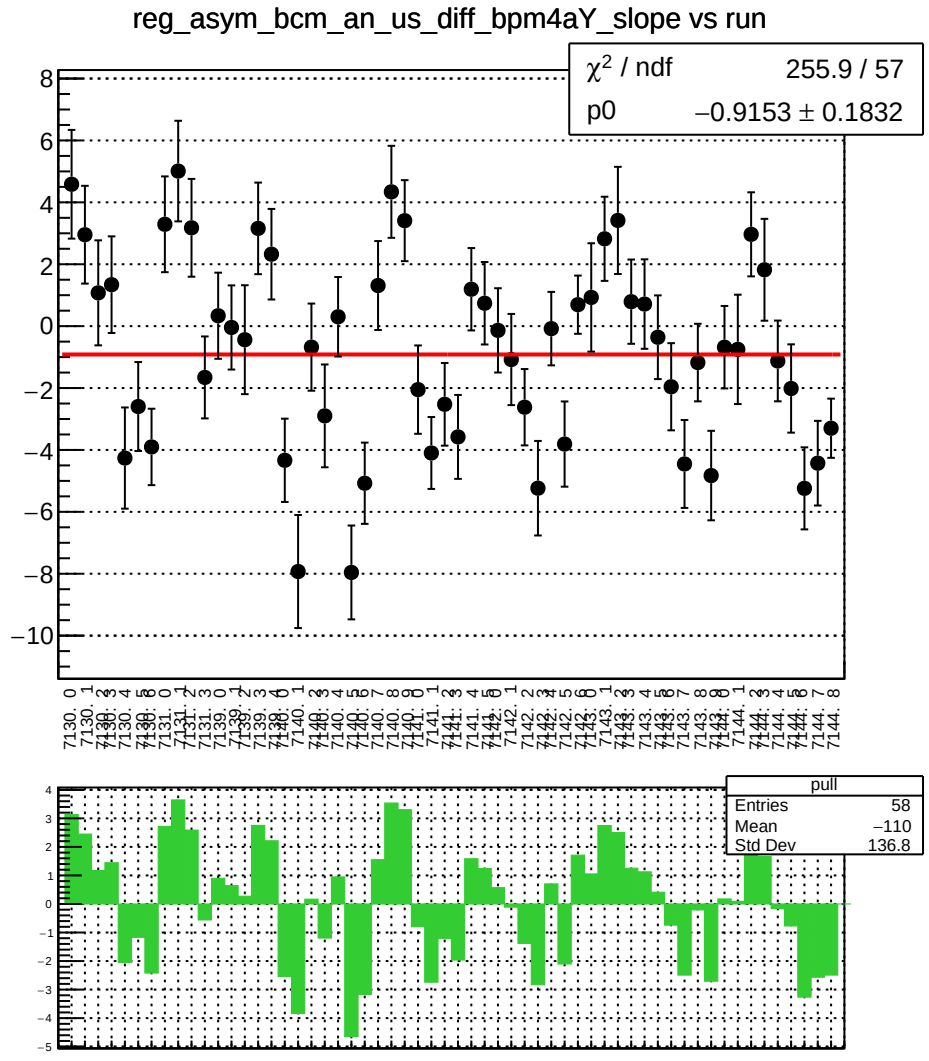

pull1D
Entries 58
Mean −0.07072
Std Dev 2.261

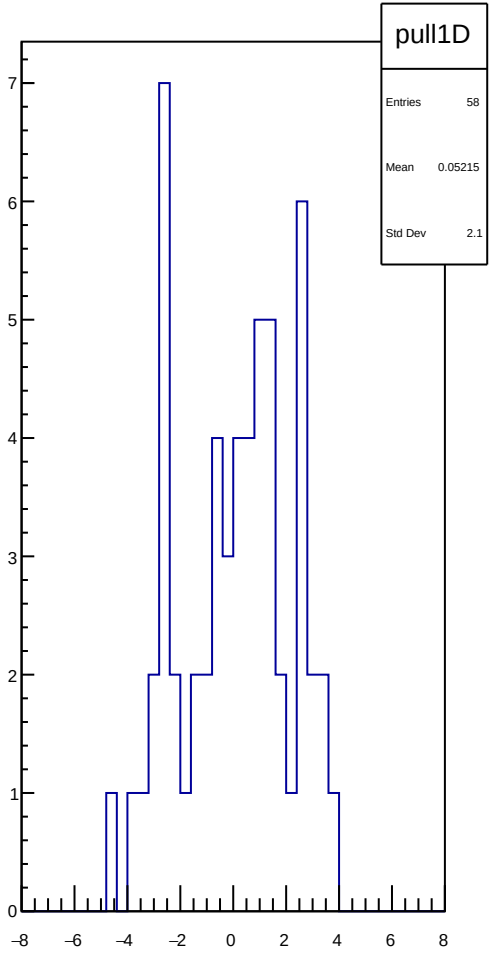

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 83.3 / 57
p0 0.1958 ± 0.009001
pull
Entries 58
Mean 77.44
Std Dev 58.43

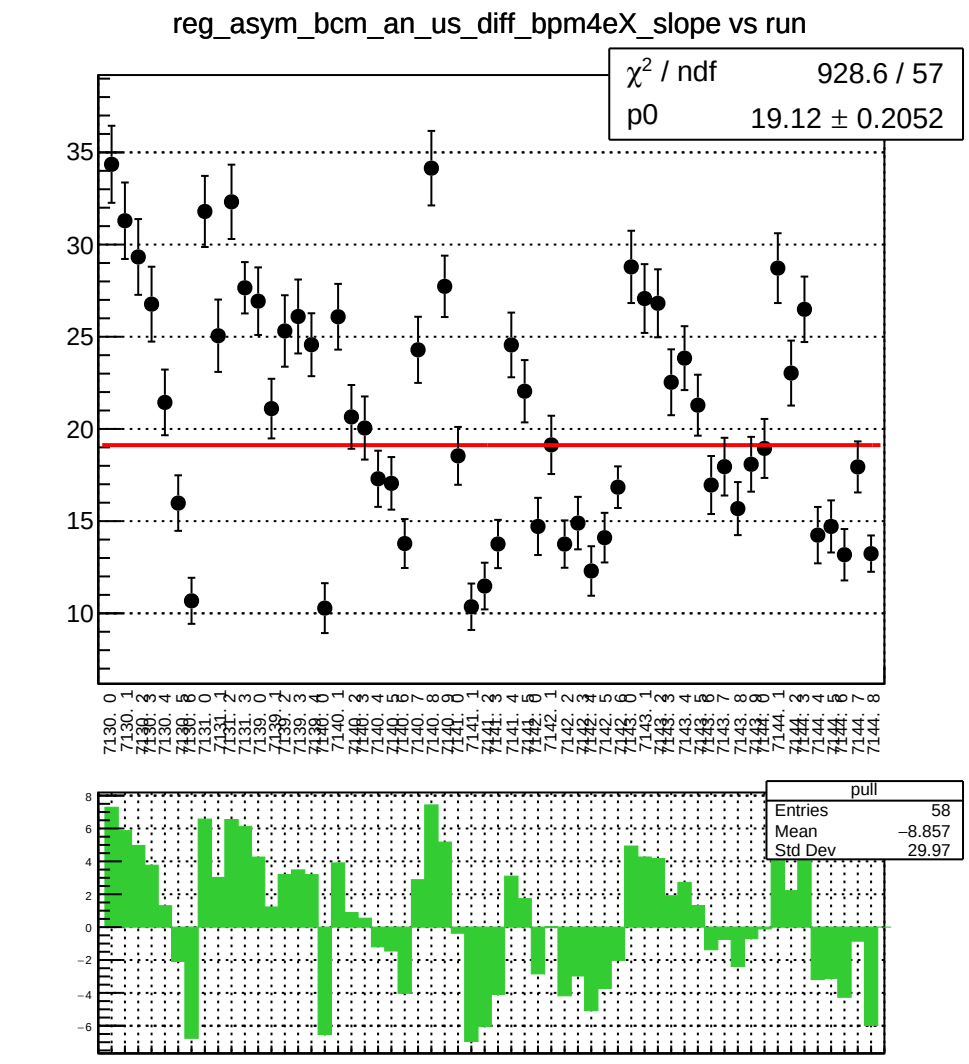

pull1D
Entries 58
Mean 0.05803
Std Dev 1.197

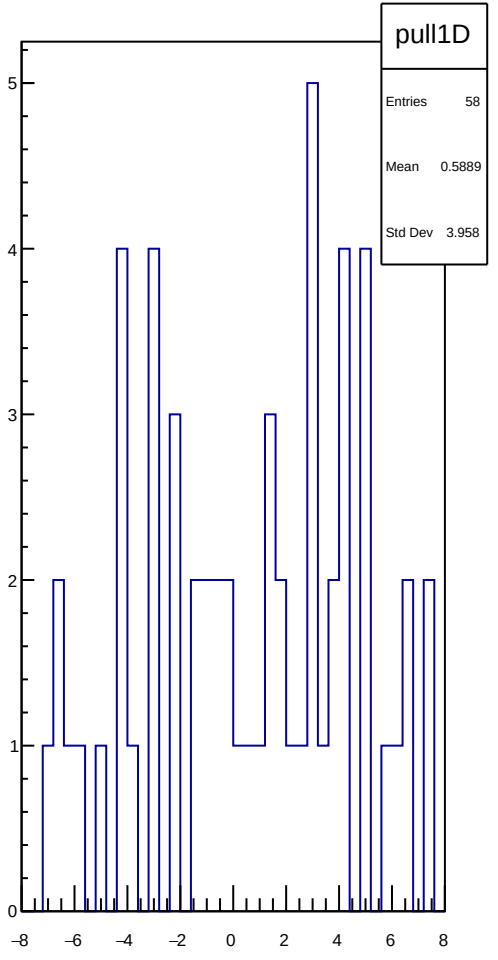

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 964.8 / 57
p0 −19.29 ± 0.2015
pull
Entries 58
Mean −12.75
Std Dev 34.24

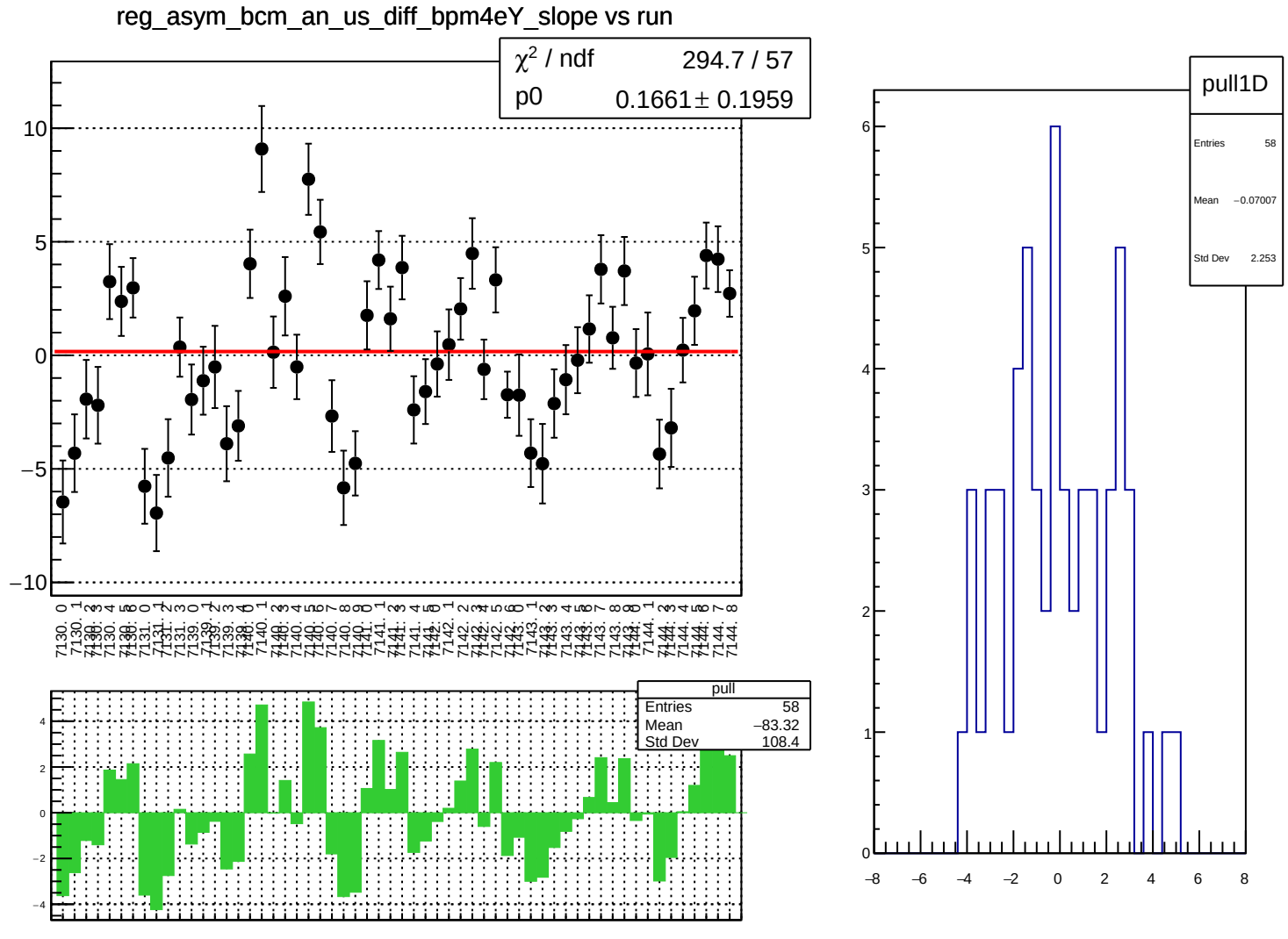

pull1D
Entries 58
Mean −0.5989
Std Dev 4.034

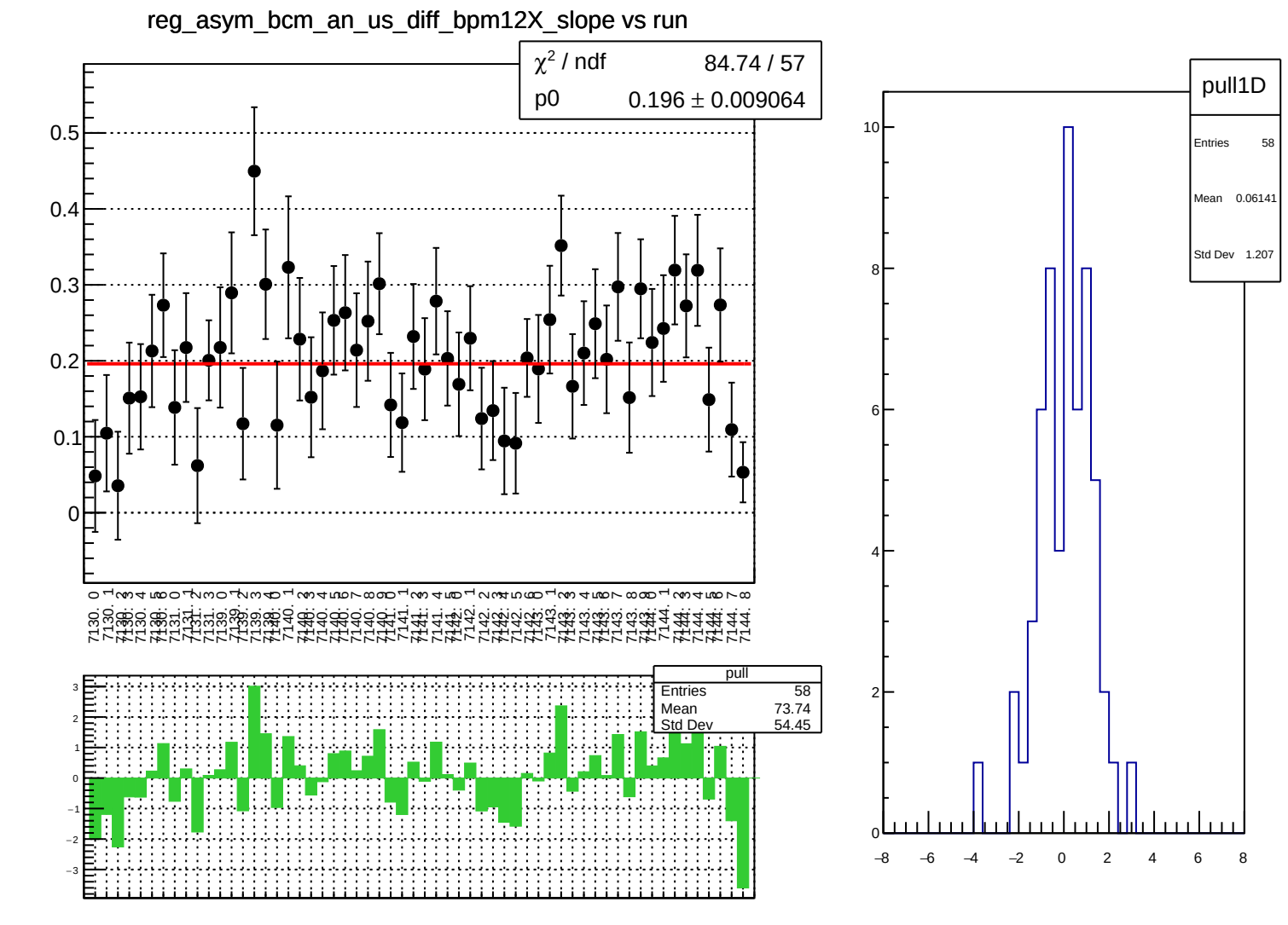

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 255.9 / 57
p0 −0.9153 ± 0.1832
pull
Entries 58
Mean −110
Std Dev 136.8

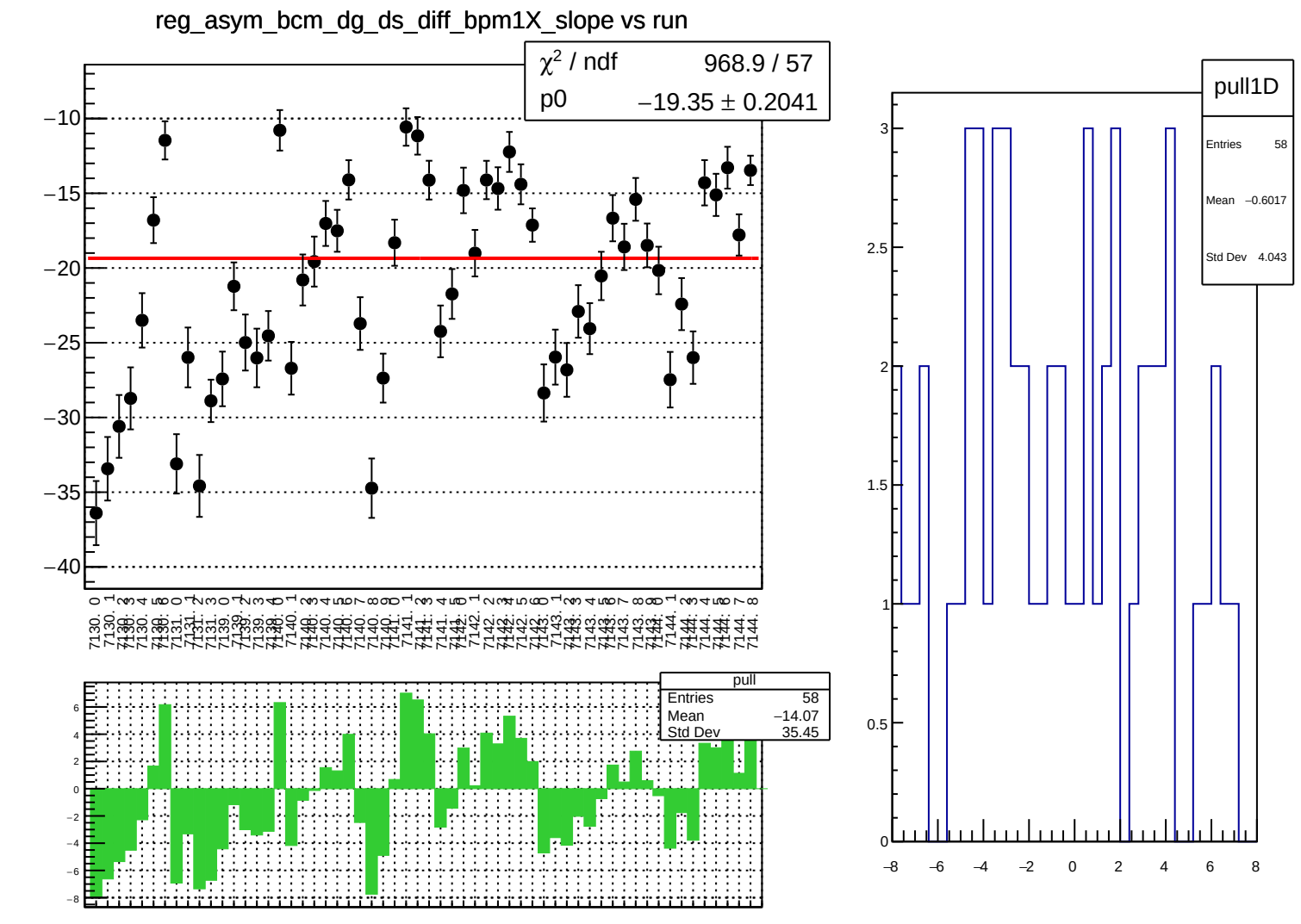

pull1D
Entries 58
Mean 0.05215
Std Dev 2.1

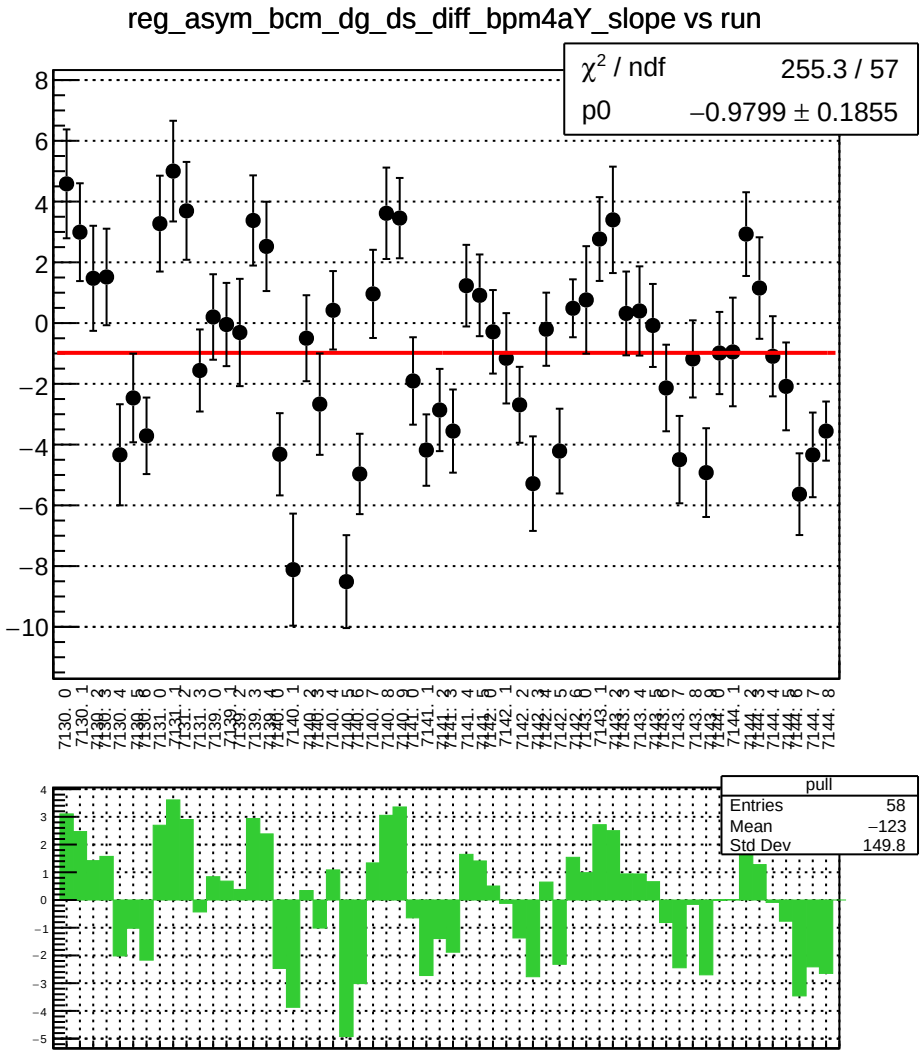

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 928.6 / 57
p0 19.12 ± 0.2052
pull
Entries 58
Mean −8.857
Std Dev 29.97

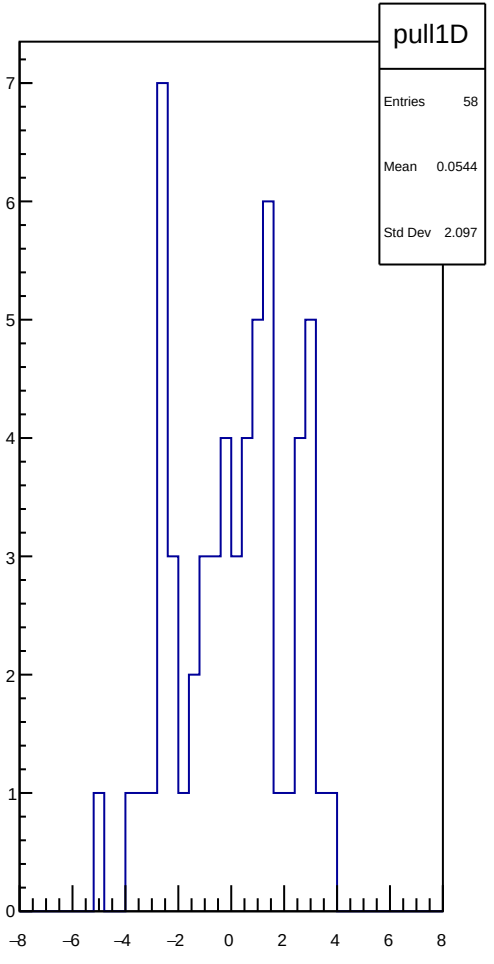

pull1D
Entries 58
Mean 0.5889
Std Dev 3.958

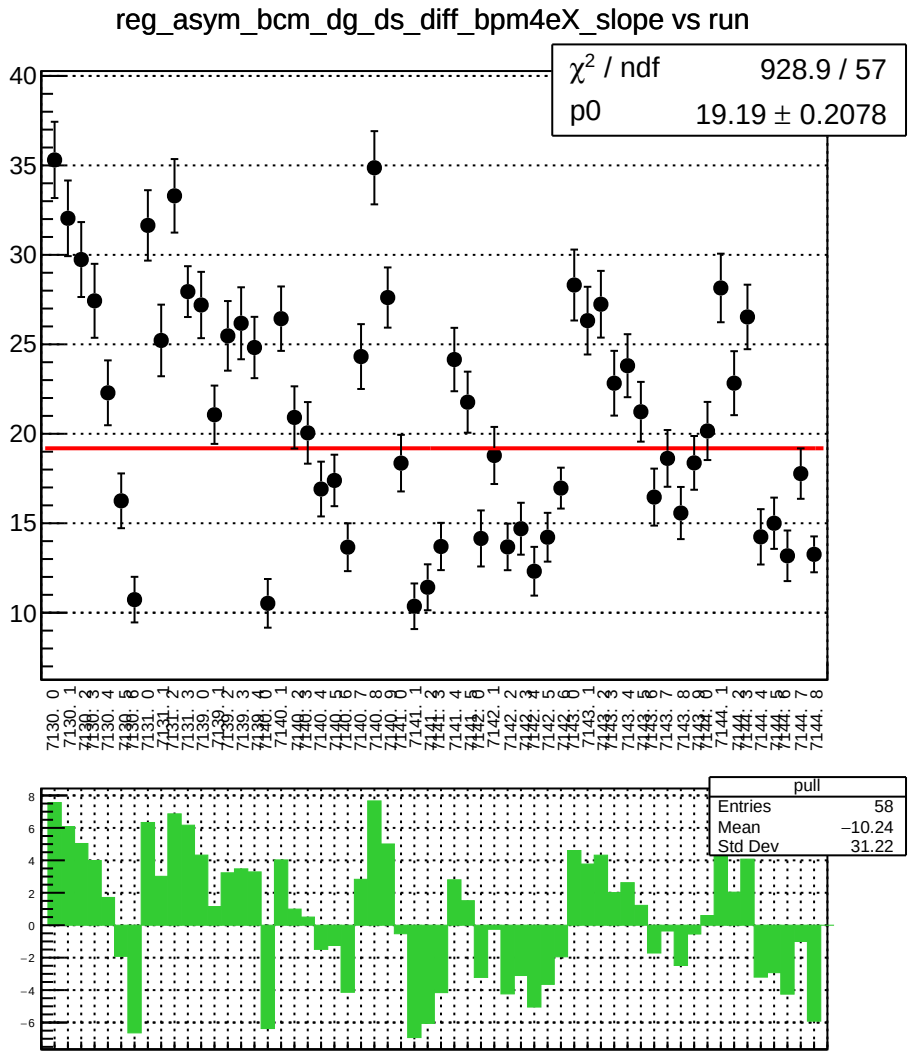

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 294.7 / 57
p0 0.1661 ± 0.1959
pull
Entries 58
Mean −83.32
Std Dev 108.4
pull1D
Entries 58
Mean −0.07007
Std Dev 2.253

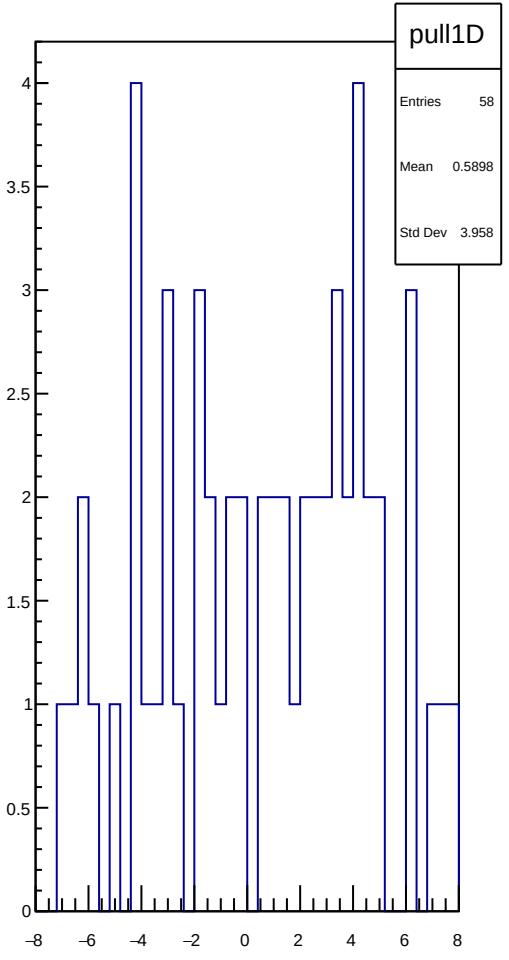

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 84.74 / 57
p0 0.196 ± 0.009064
pull
Entries 58
Mean 73.74
Std Dev 54.45
pull1D
Entries 58
Mean 0.06141
Std Dev 1.207

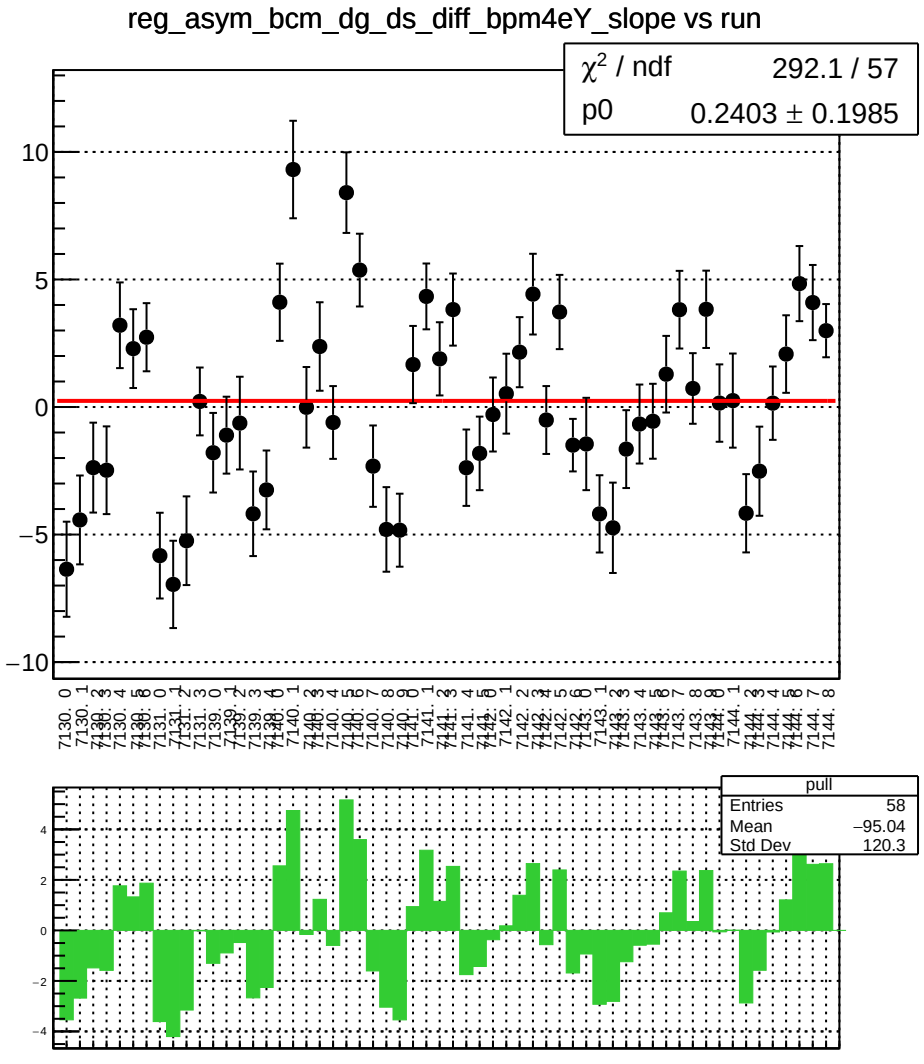

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 968.9 / 57
p0 −19.35 ± 0.2041
pull
Entries 58
Mean −14.07
Std Dev 35.45
pull1D
Entries 58
Mean −0.6017
Std Dev 4.043

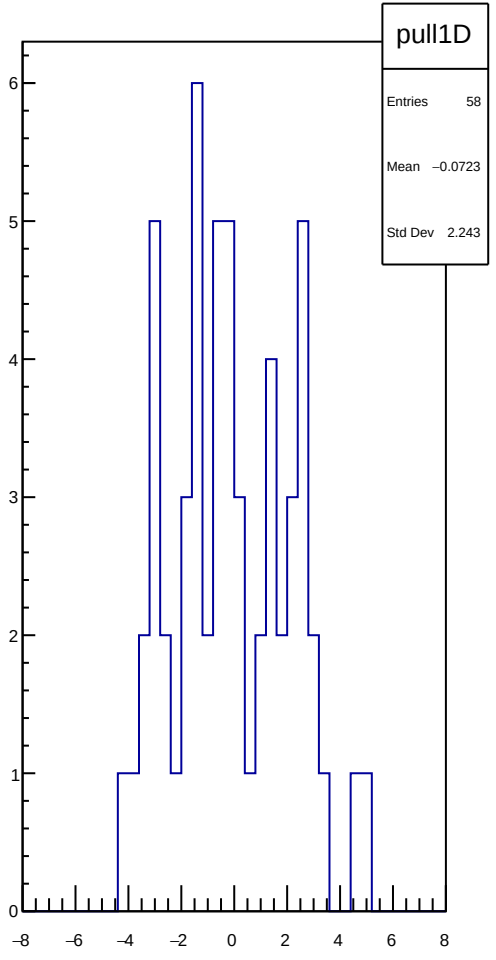

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 255.3 / 57
p0 −0.9799 ± 0.1855
pull
Entries 58
Mean −123
Std Dev 149.8

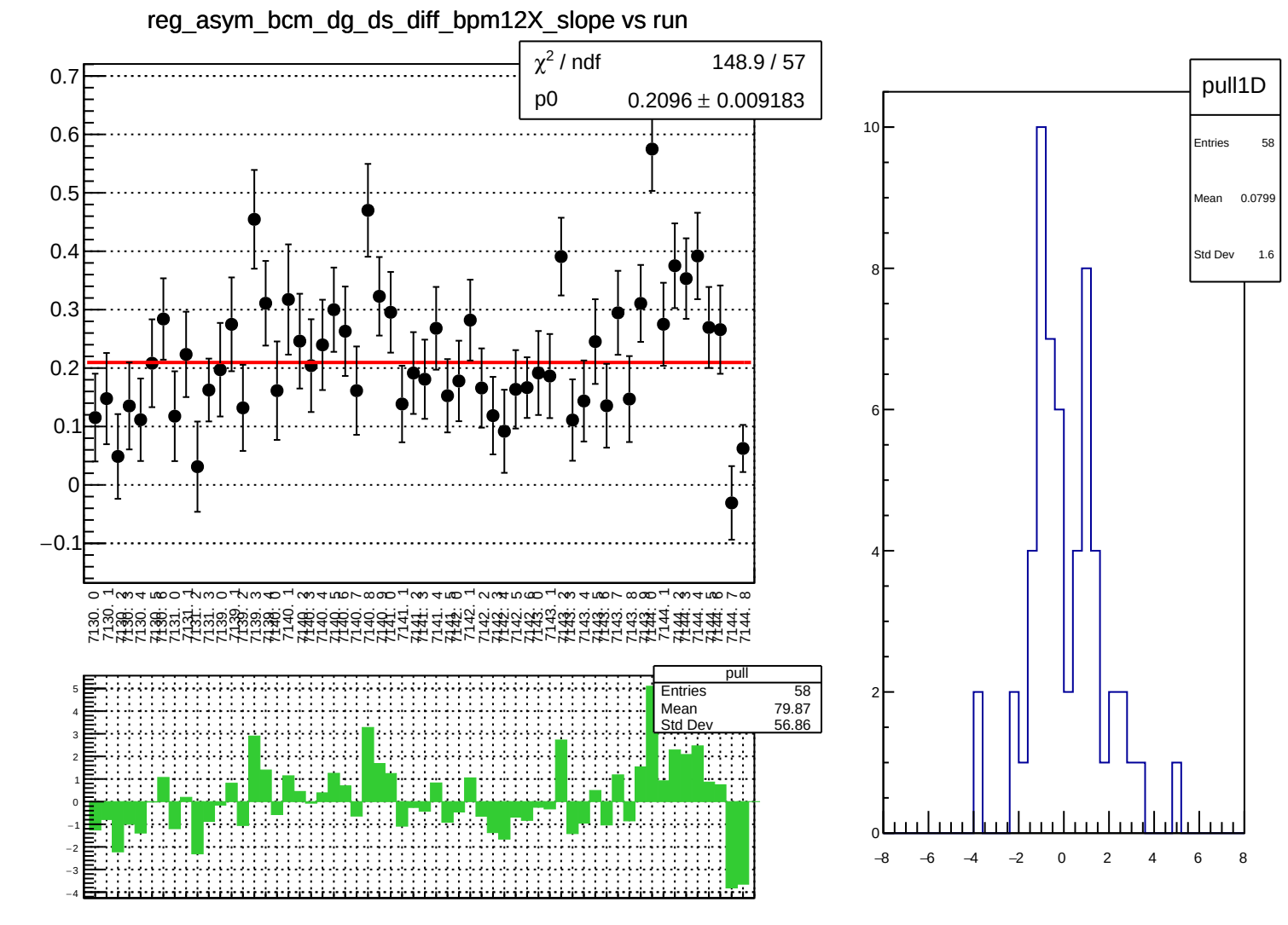

pull1D
Entries 58
Mean 0.0544
Std Dev 2.097

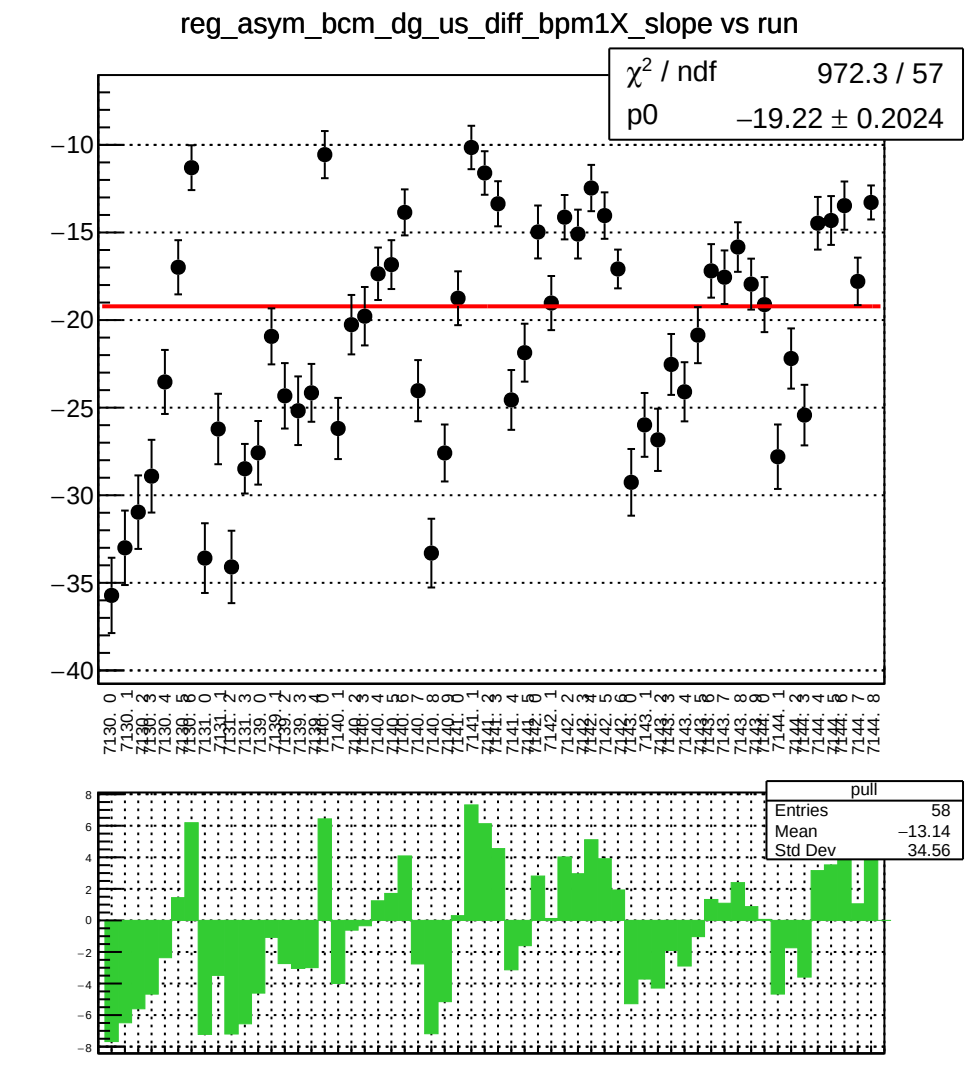

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 928.9 / 57
p0 19.19 ± 0.2078
pull
Entries 58
Mean −10.24
Std Dev 31.22

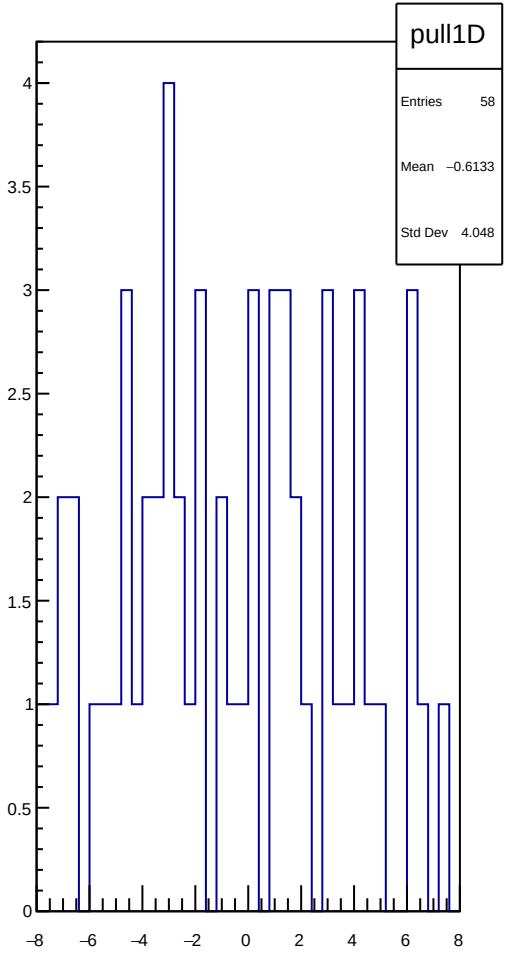

pull1D
Entries 58
Mean 0.5898
Std Dev 3.958

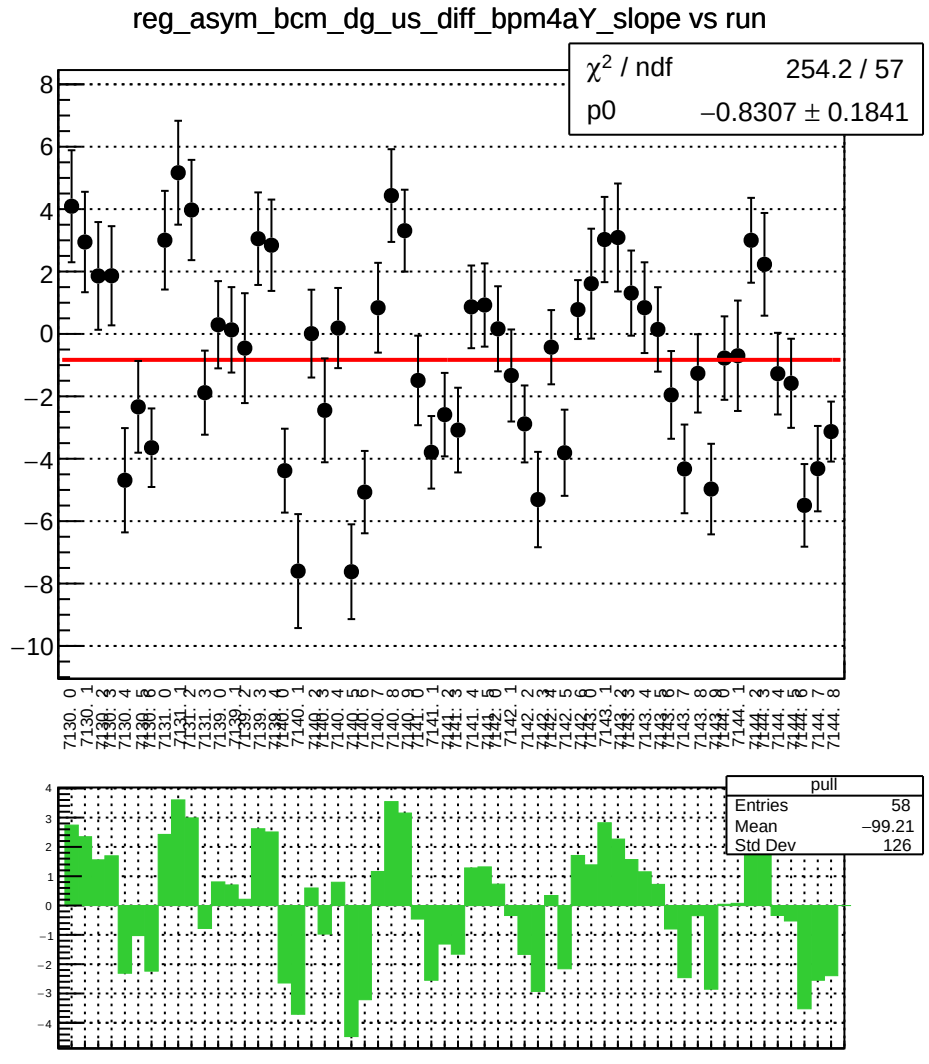

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 292.1 / 57
p0 0.2403 ± 0.1985
pull
Entries 58
Mean −95.04
Std Dev 120.3

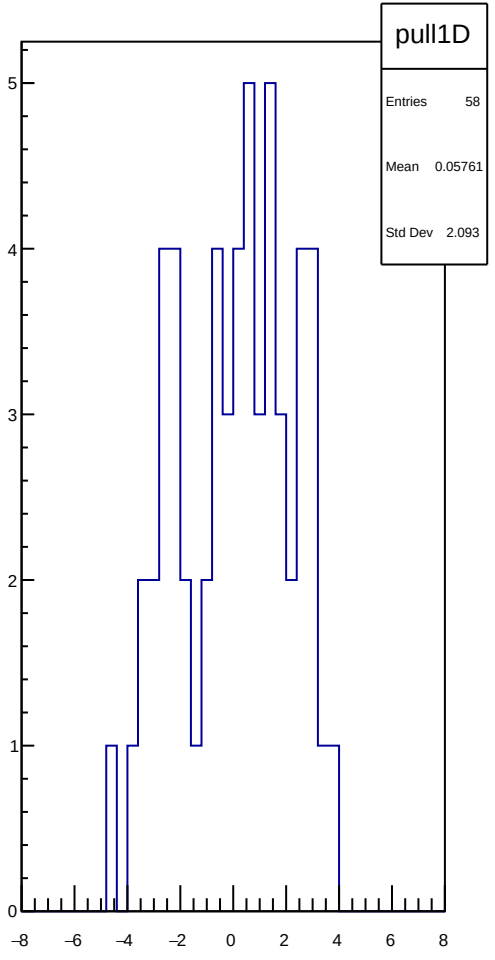

pull1D
Entries 58
Mean −0.0723
Std Dev 2.243

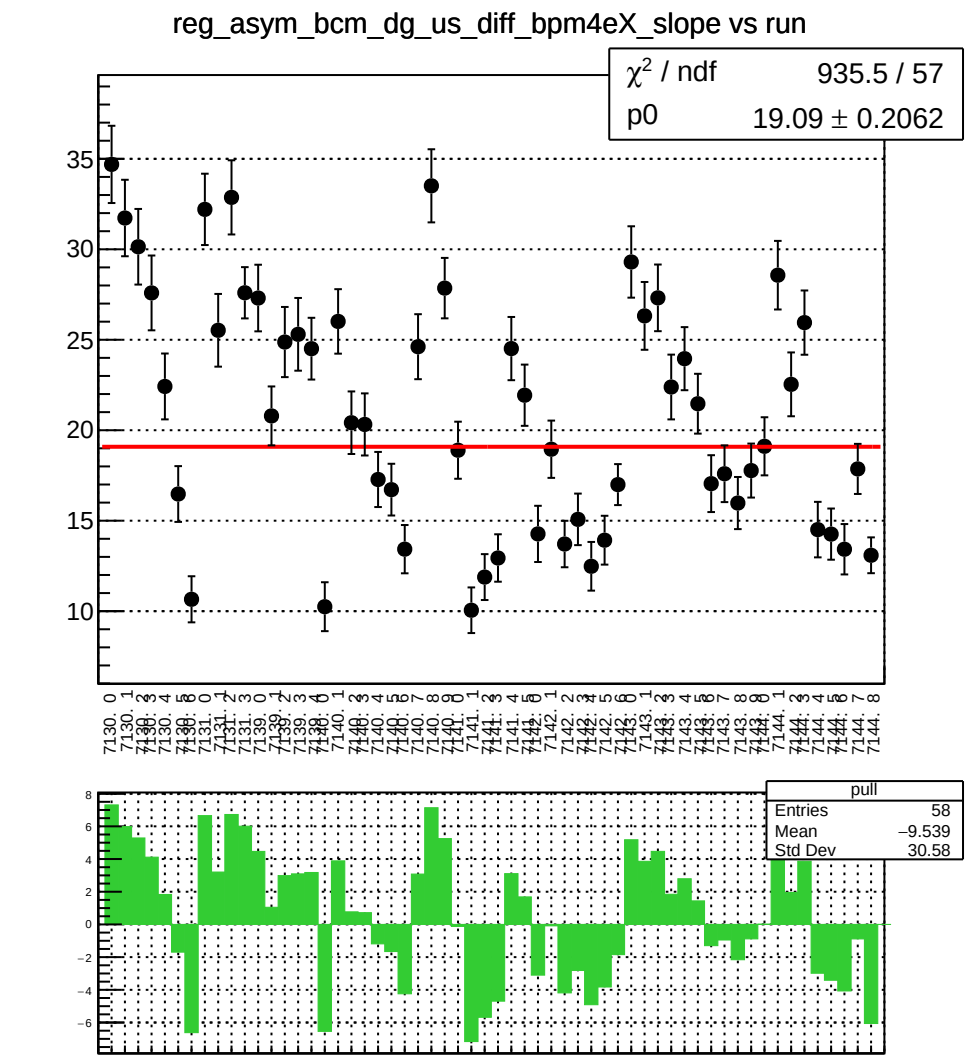

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 148.9 / 57
p0 0.2096 ± 0.009183
pull
Entries 58
Mean 79.87
Std Dev 56.86
pull1D
Entries 58
Mean 0.0799
Std Dev 1.6

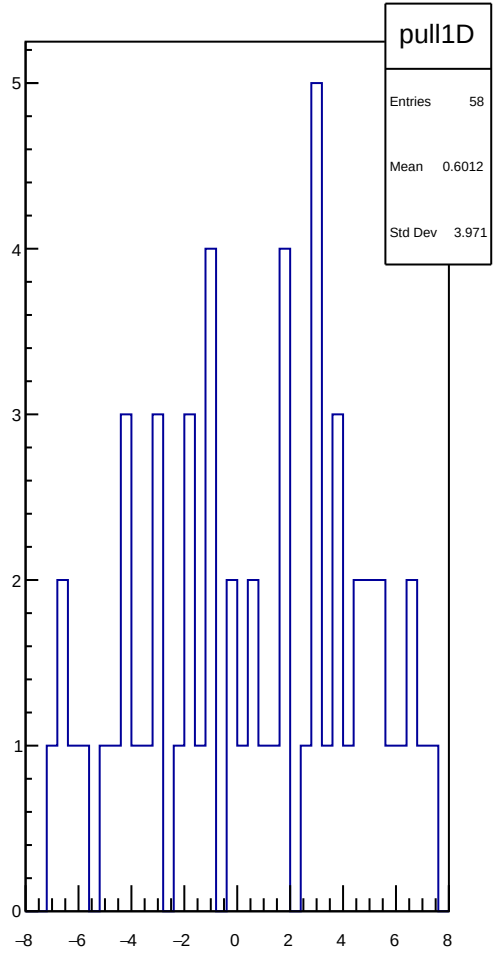

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 972.3 / 57
p0 −19.22 ± 0.2024
pull
Entries 58
Mean −13.14
Std Dev 34.56

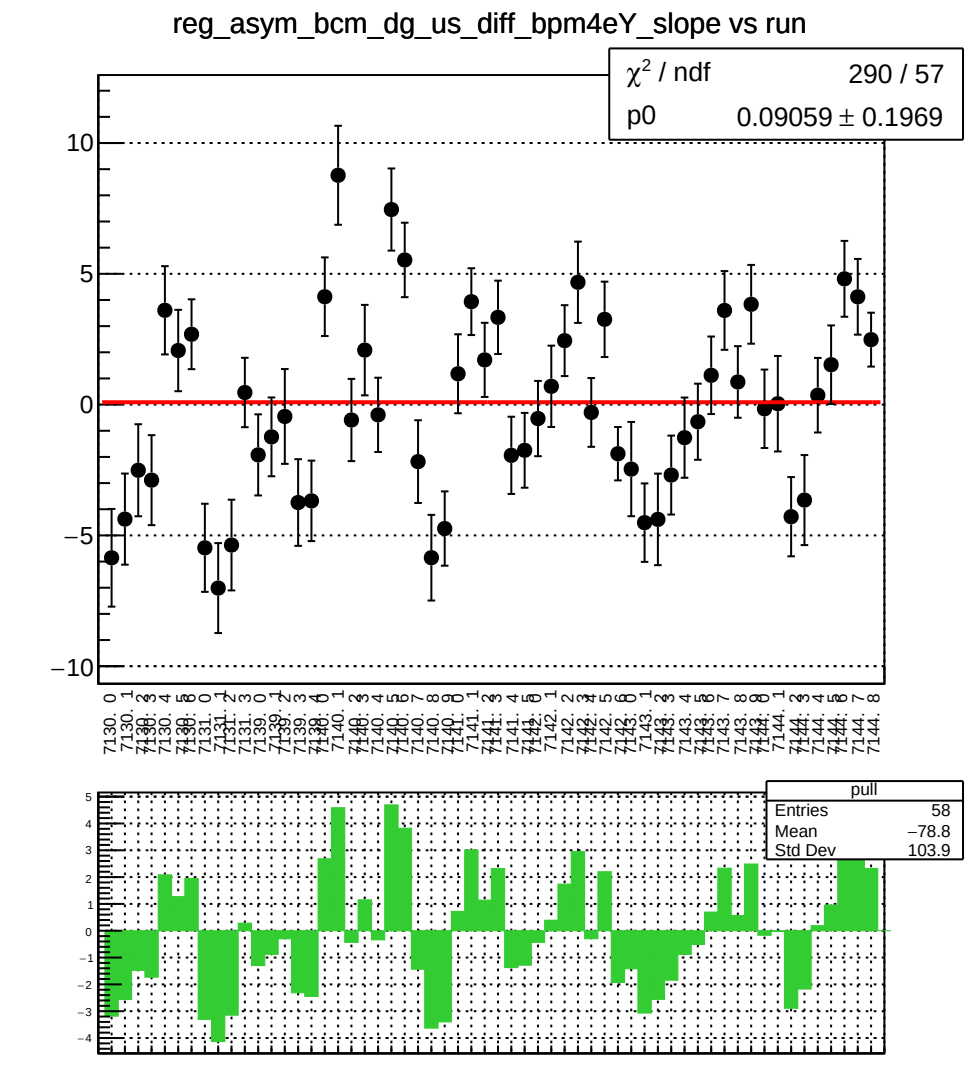

pull1D
Entries 58
Mean −0.6133
Std Dev 4.048

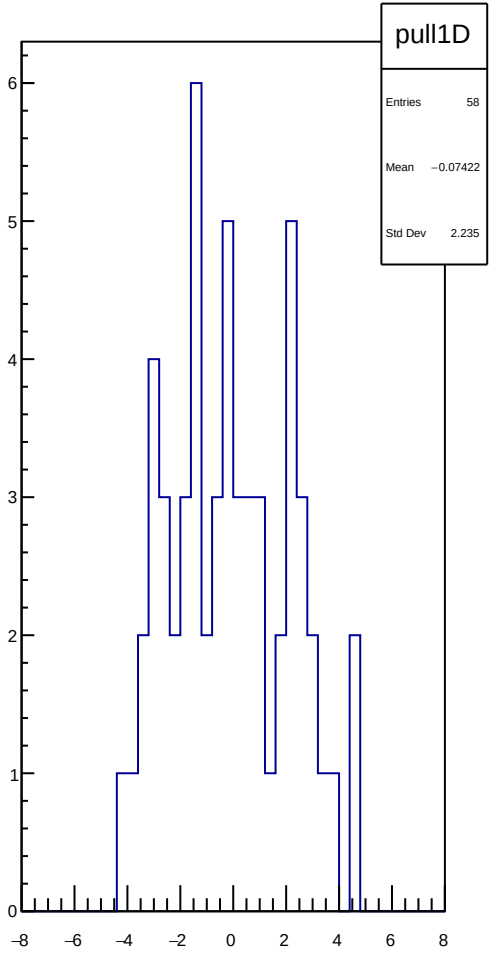

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 254.2 / 57
p0 −0.8307 ± 0.1841
pull
Entries 58
Mean −99.21
Std Dev 126

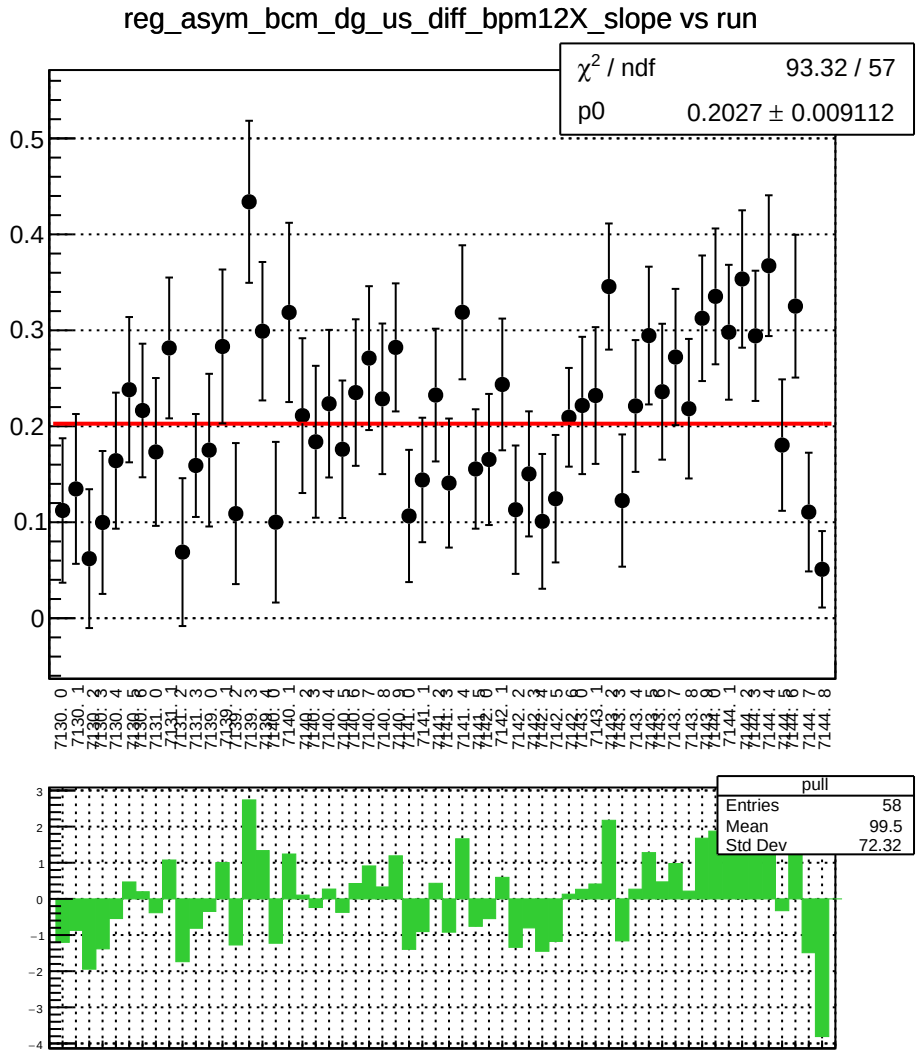

pull1D
Entries 58
Mean 0.05761
Std Dev 2.093

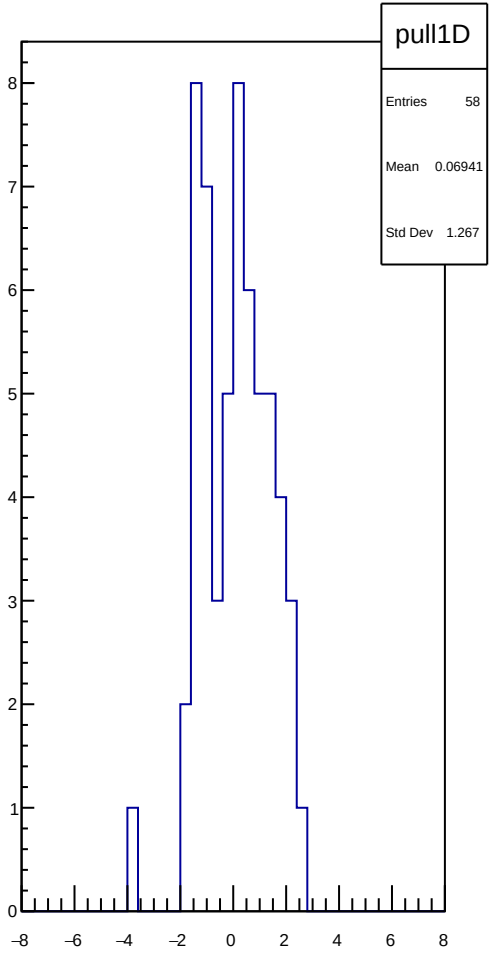

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 935.5 / 57
p0 19.09 ± 0.2062
pull
Entries 58
Mean −9.539
Std Dev 30.58

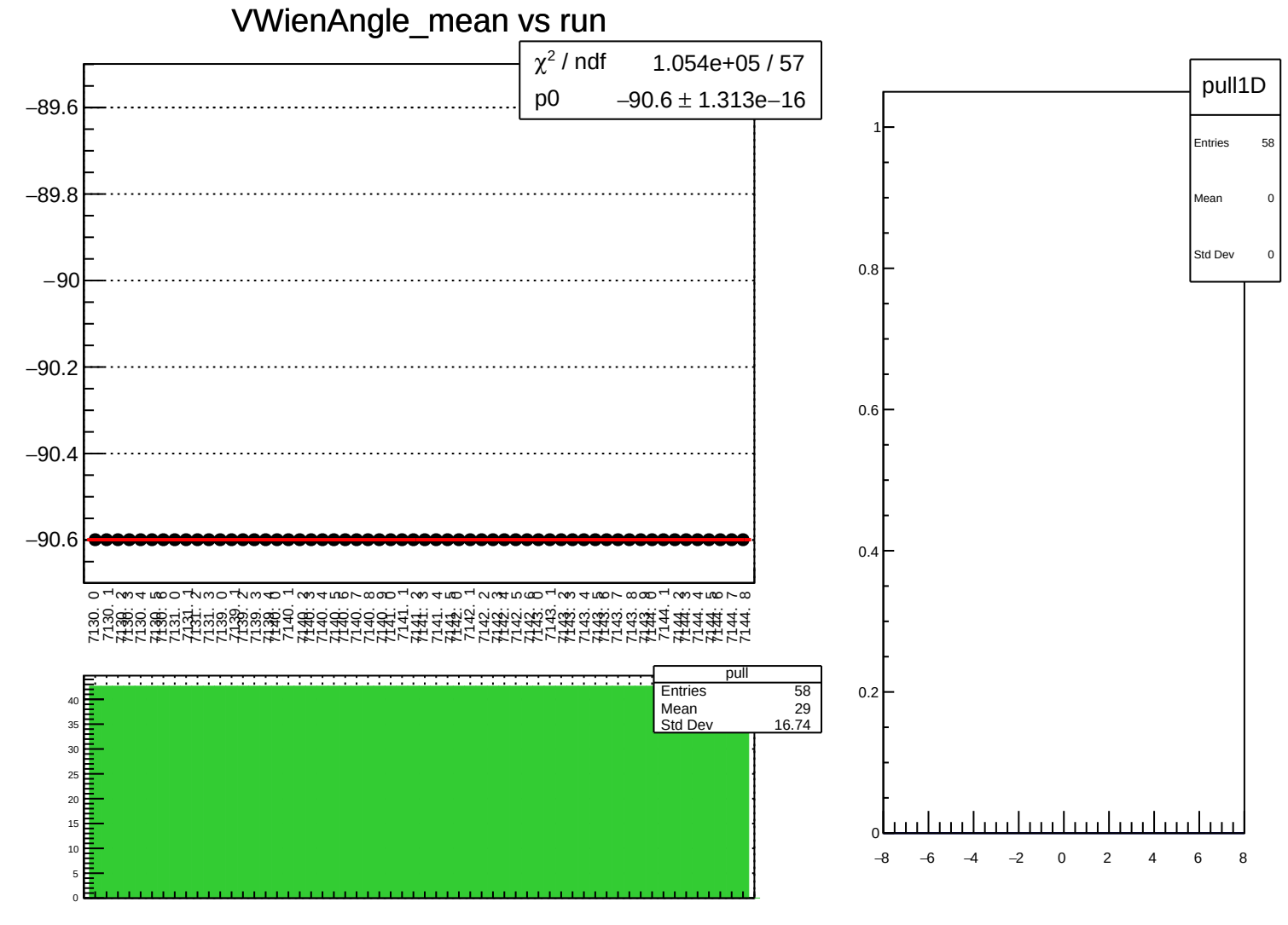

pull1D
Entries 58
Mean 0.6012
Std Dev 3.971

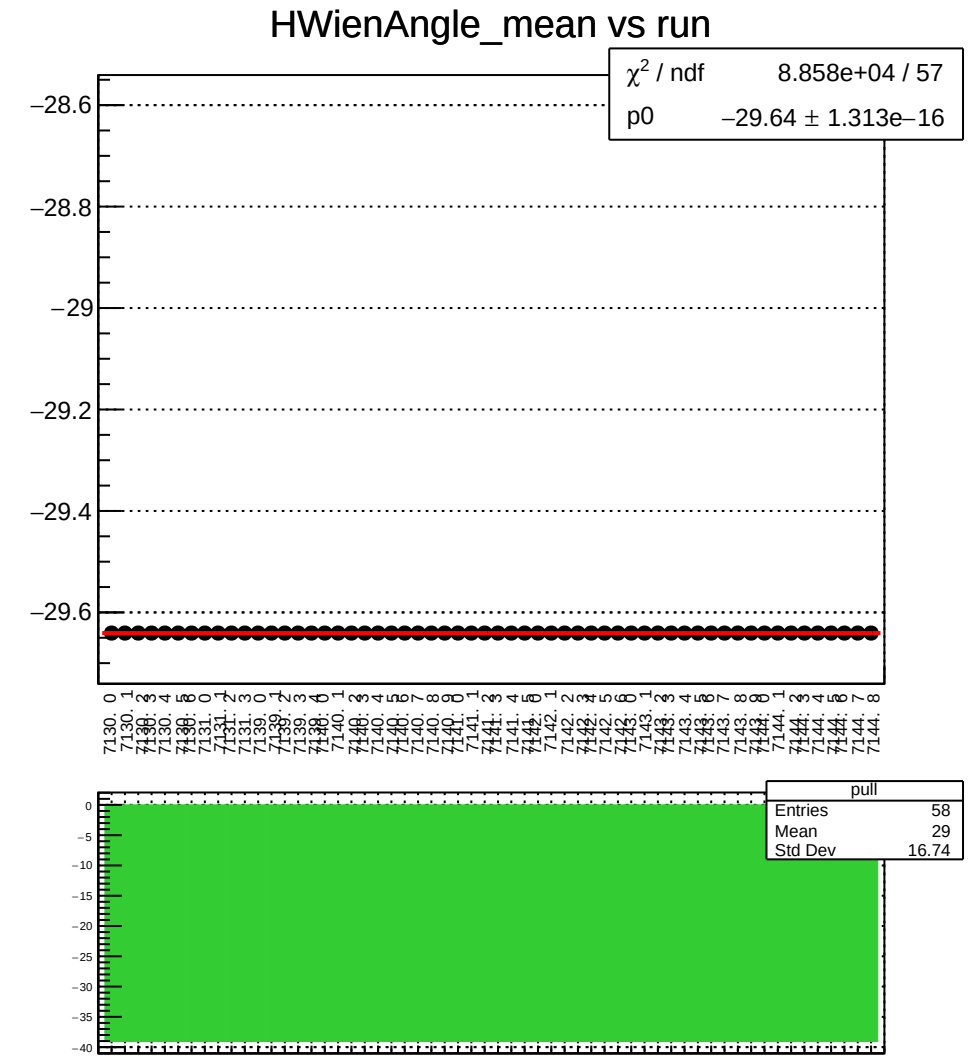

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 290 / 57
p0 0.09059 ± 0.1969
pull
Entries 58
Mean −78.8
Std Dev 103.9

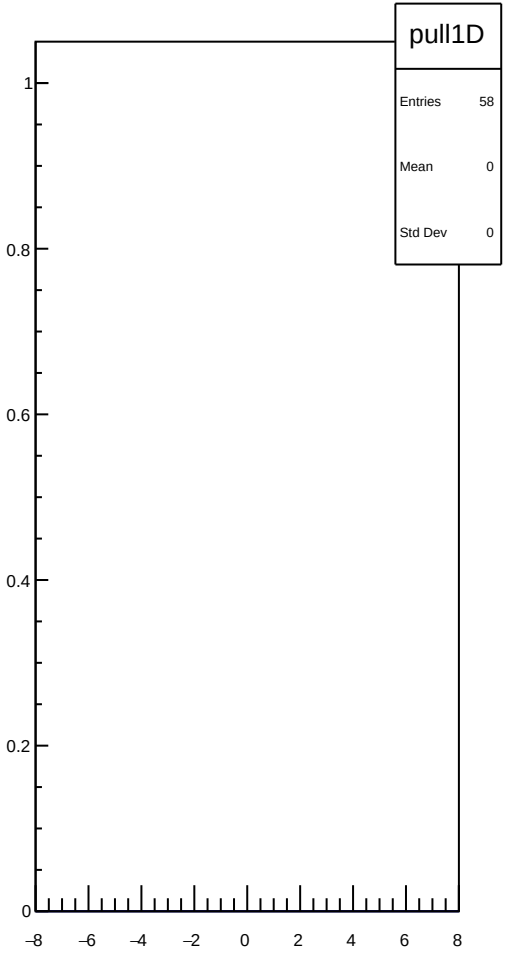

pull1D
Entries 58
Mean −0.07422
Std Dev 2.235

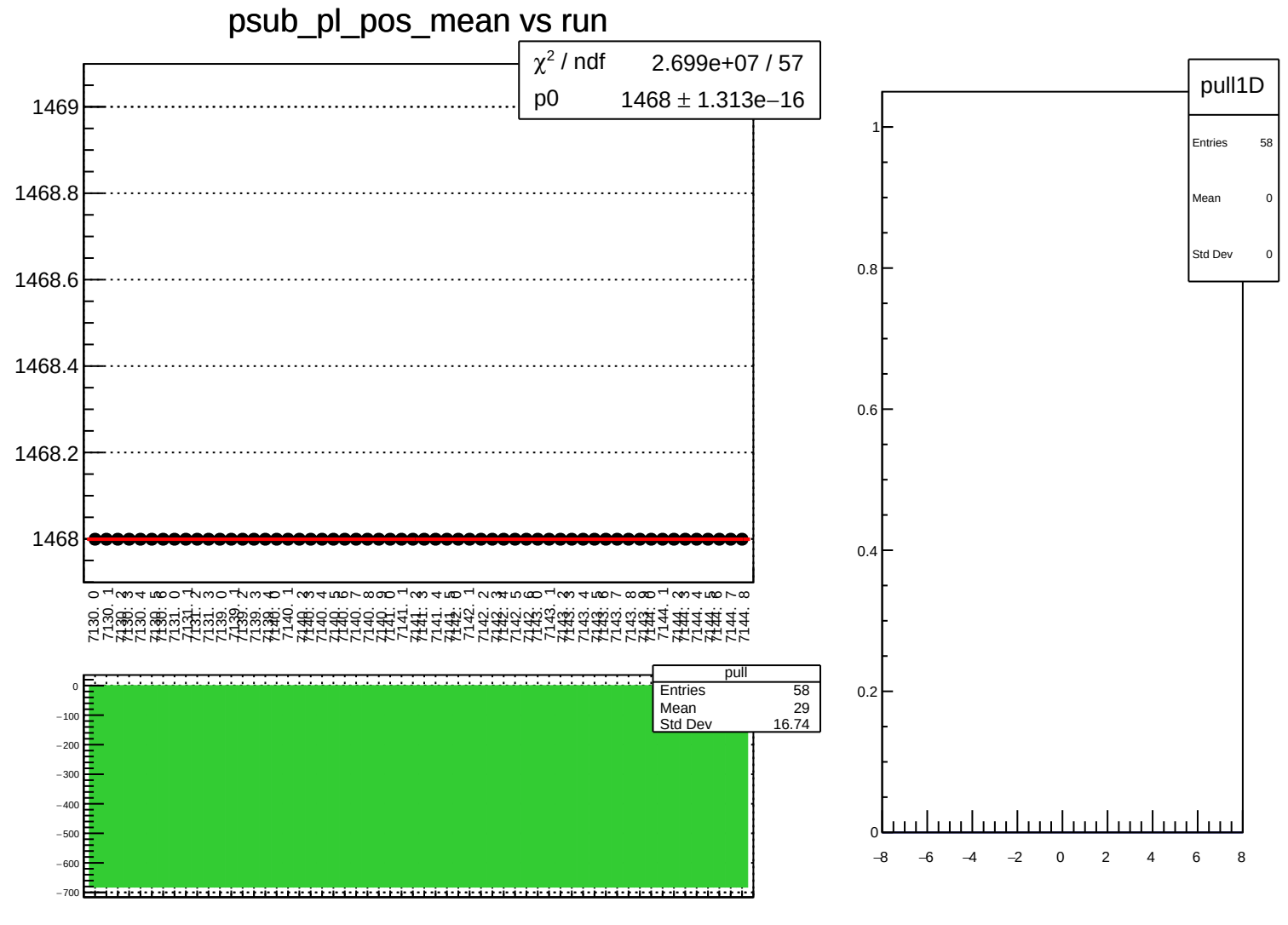

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 93.32 / 57
p0 0.2027 ± 0.009112
pull
Entries 58
Mean 99.5
Std Dev 72.32

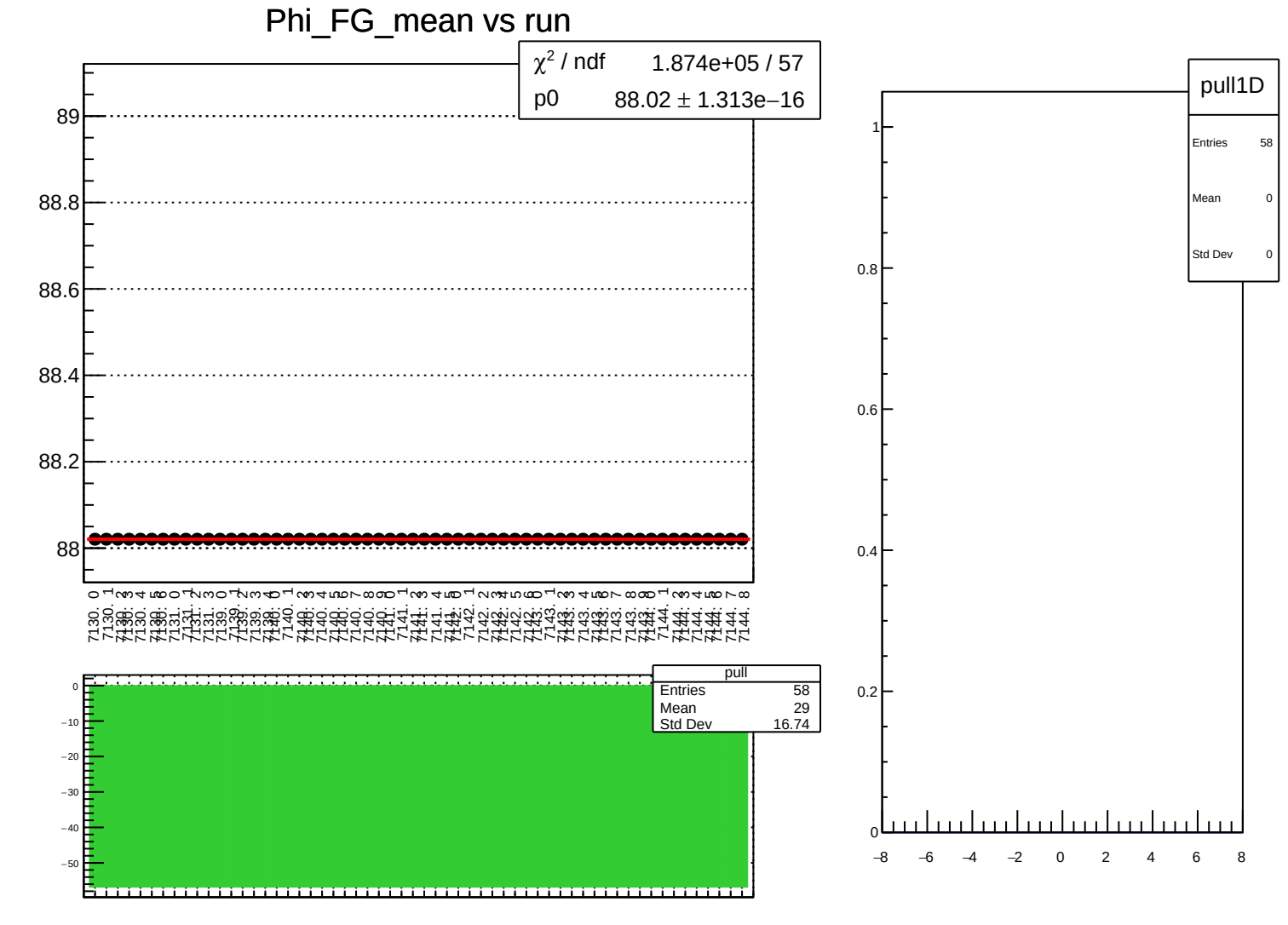

pull1D
Entries 58
Mean 0.06941
Std Dev 1.267

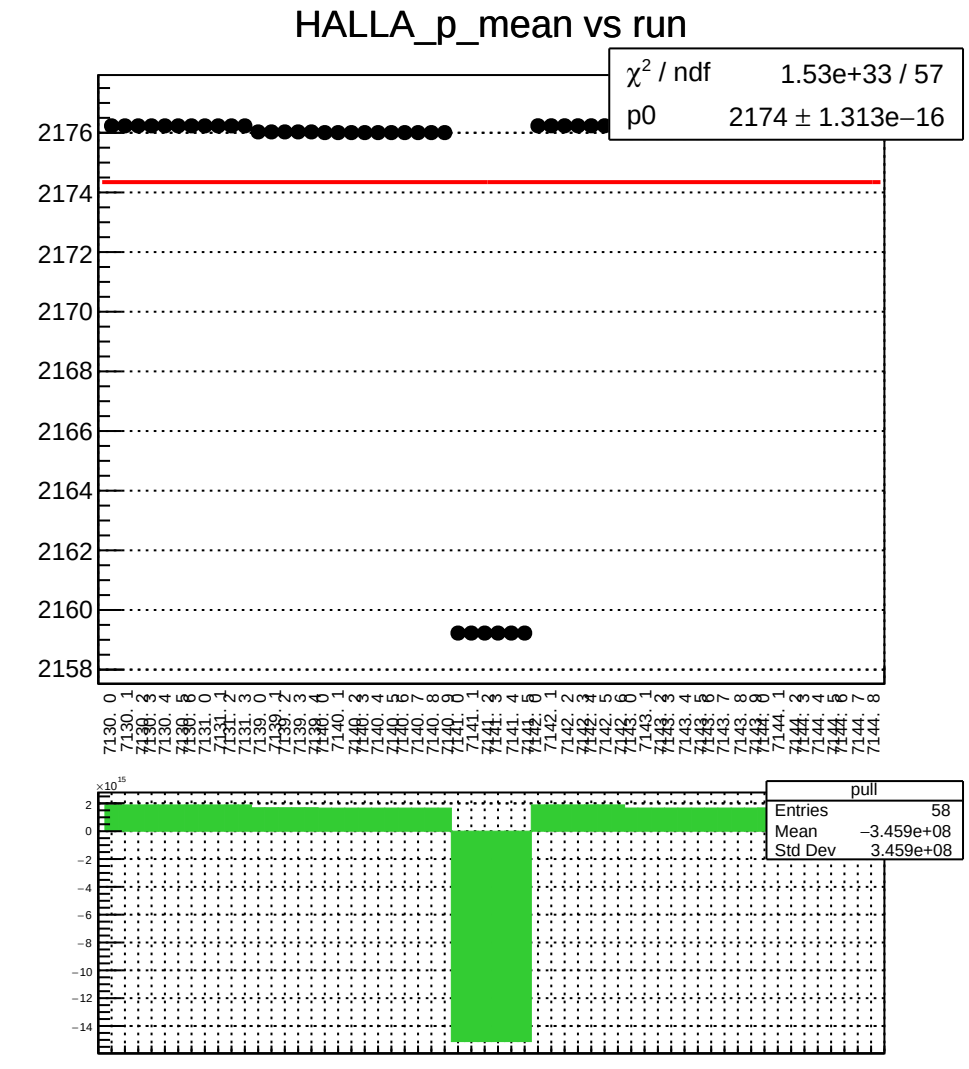

VWienAngle_mean vs run
χ² / ndf 1.054e+05 / 57
p0 −90.6 ± 1.313e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 58
Mean 29
Std Dev 16.74
pull1D
Entries 58
Mean 0
Std Dev 0

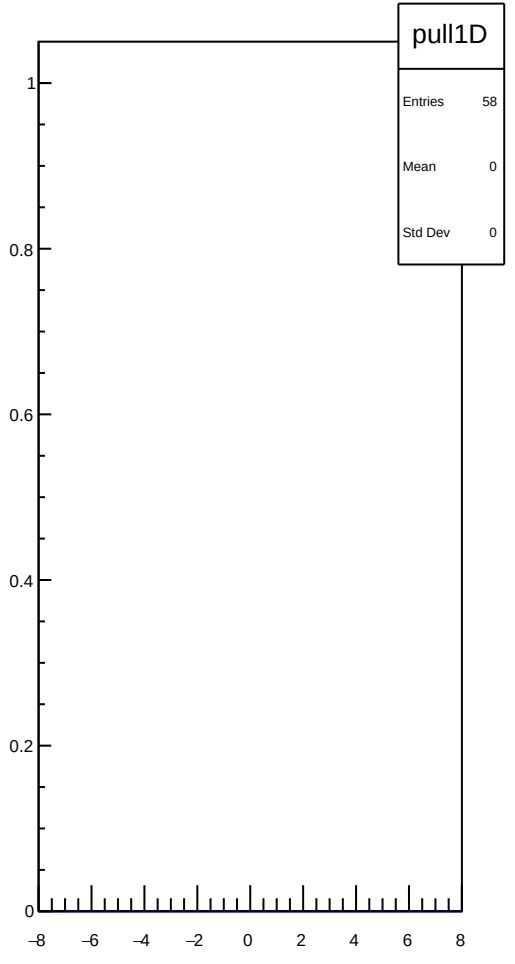

HWienAngle_mean vs run
χ² / ndf 8.858e+04 / 57
p0 −29.64 ± 1.313e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 58
Mean 29
Std Dev 16.74
0
−5
−10
−15
−20
−25
−30
−35
−40

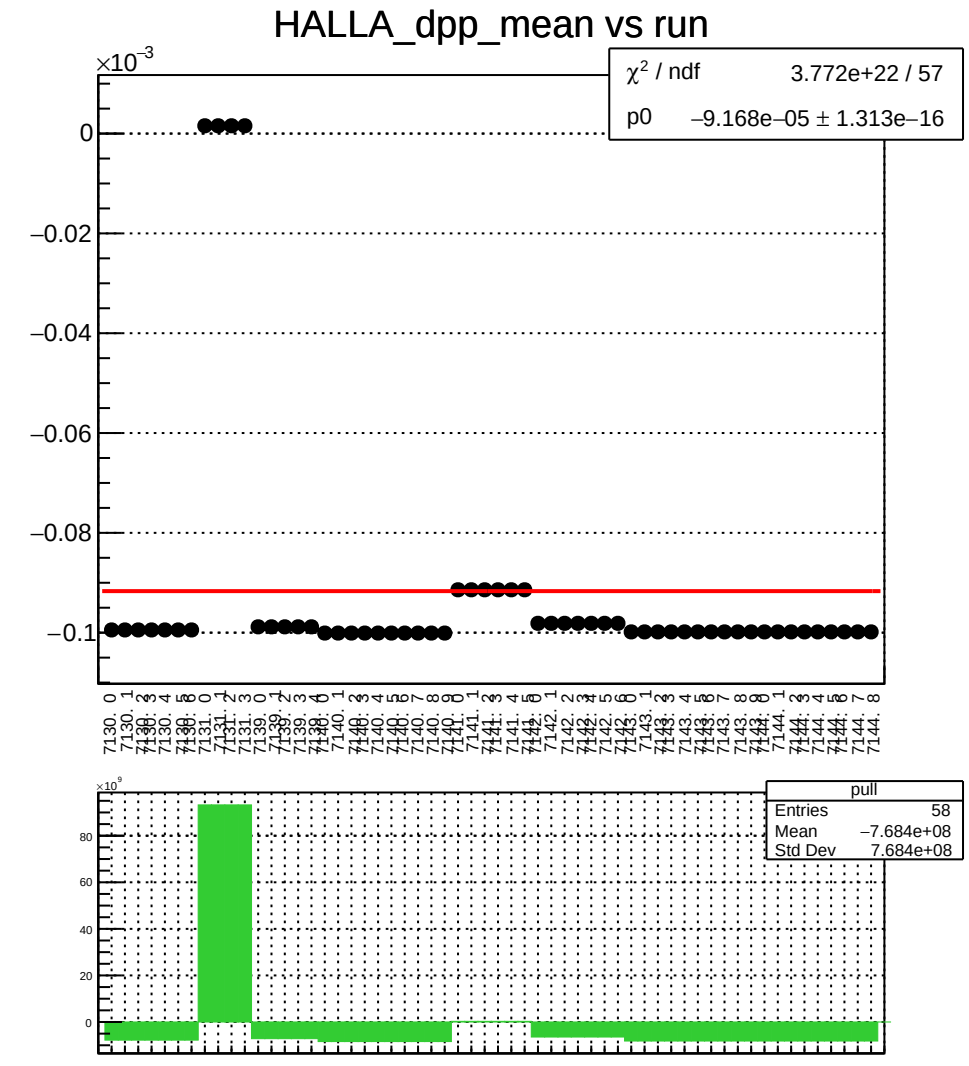

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

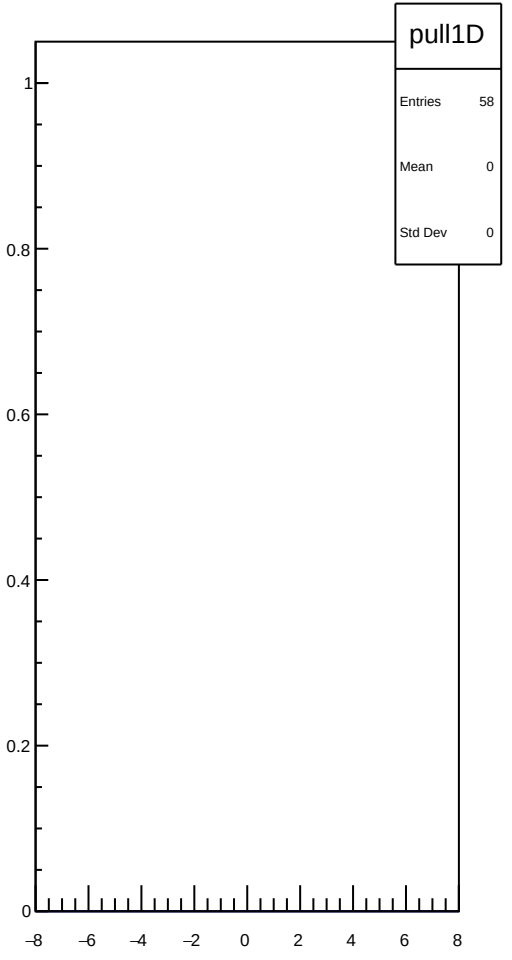

psub_pl_pos_mean vs run
χ² / ndf 2.699e+07 / 57
p0 1468 ± 1.313e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 58
Mean 29
Std Dev 16.74
0
−100
−200
−300
−400
−500
−600
−700
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

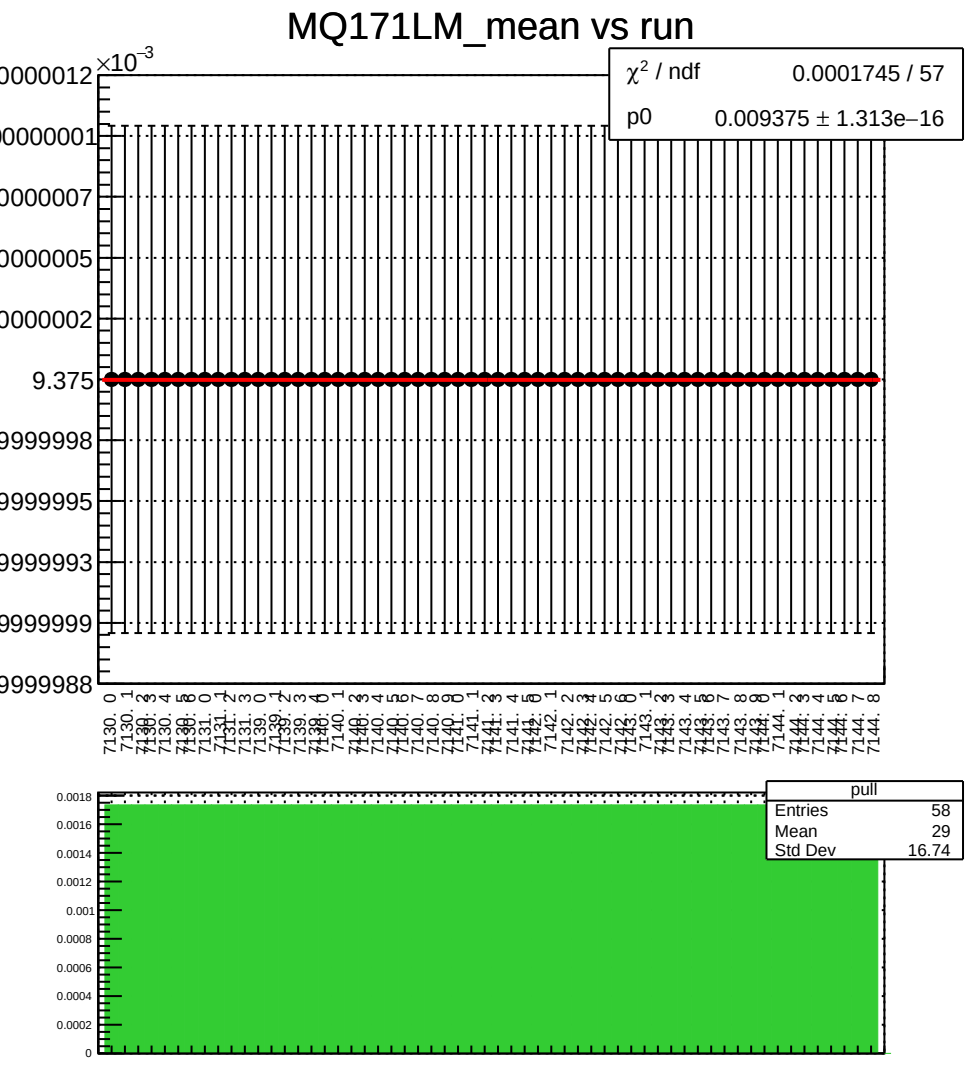

Phi_FG_mean vs run
χ² / ndf 1.874e+05 / 57
p0 88.02 ± 1.313e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 58
Mean 29
Std Dev 16.74
0
−10
−20
−30
−40
−50
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

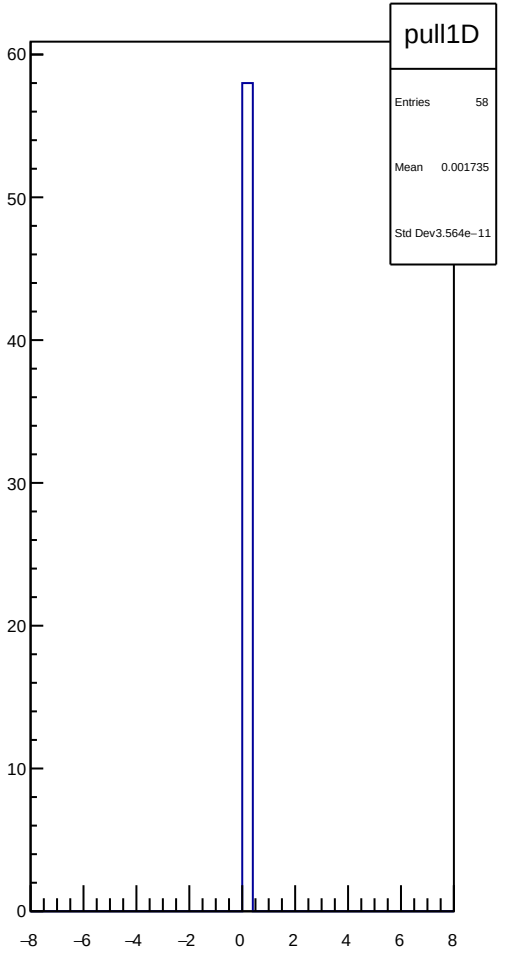

HALLA_p_mean vs run
χ² / ndf 1.53e+33 / 57
p0 2174 ± 1.313e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 58
Mean −3.459e+08
Std Dev 3.459e+08
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14

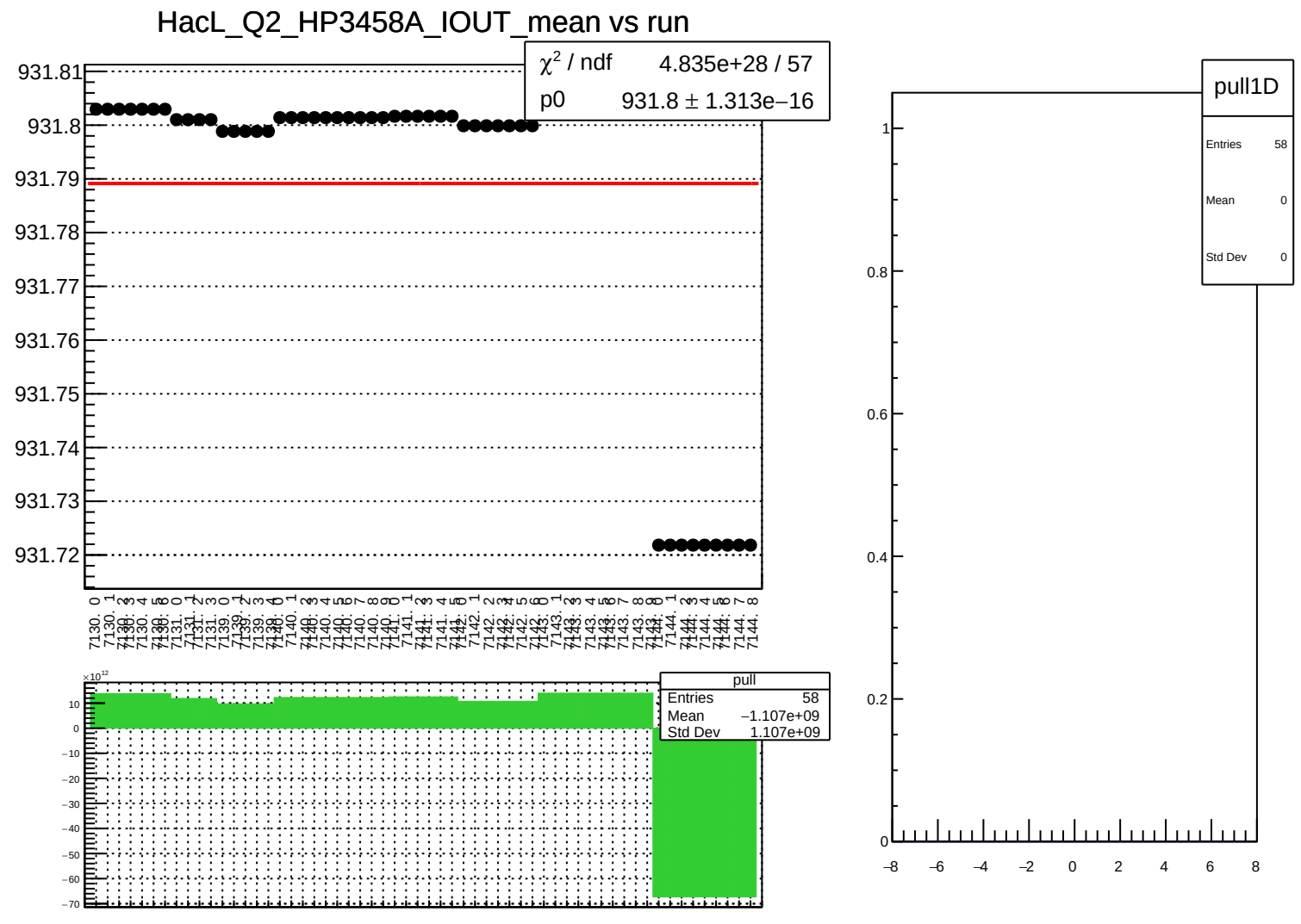

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

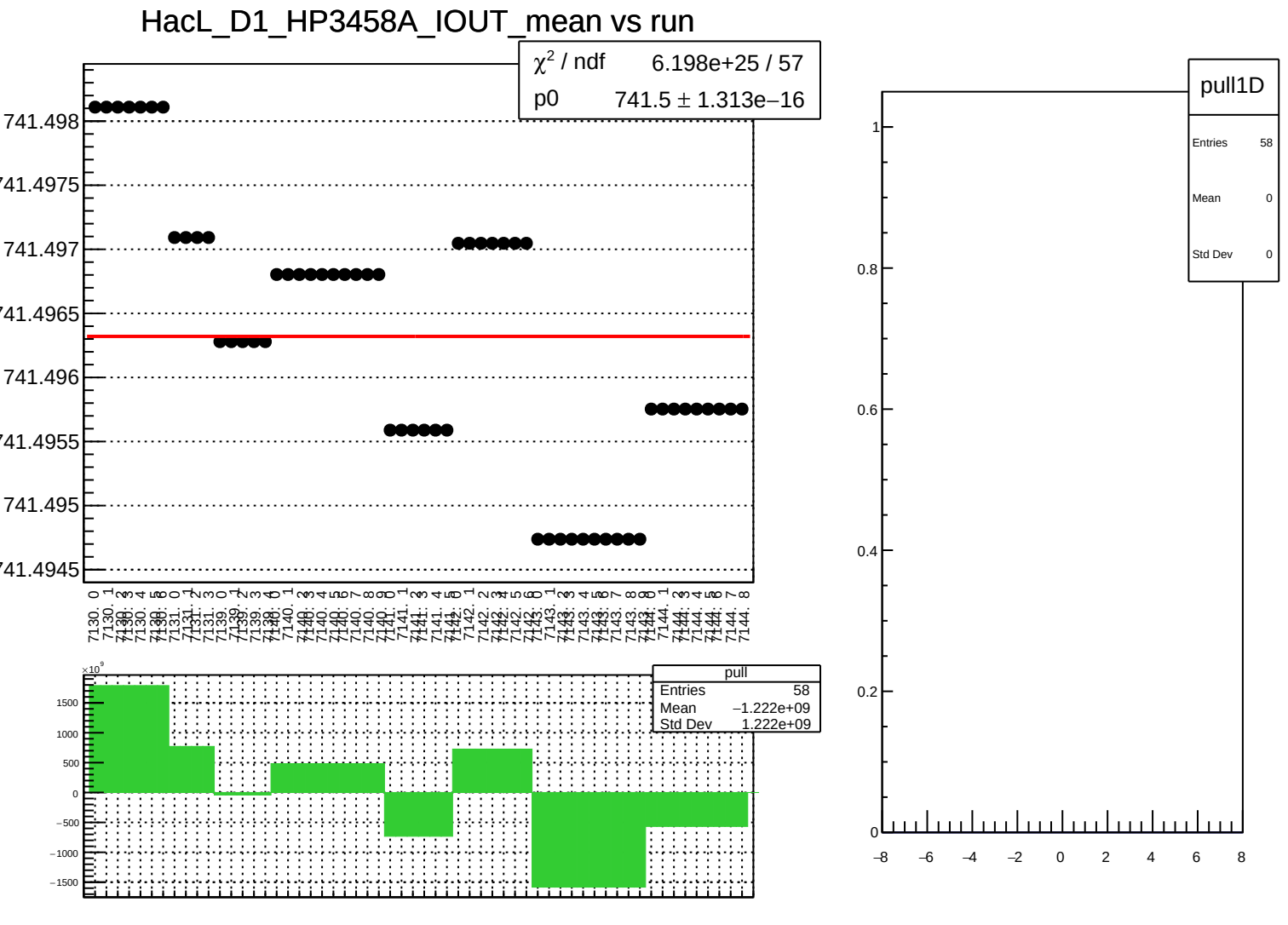

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 3.772e+22 / 57
p0 −9.168e−05 ± 1.313e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
pull
Entries 58
Mean −7.684e+08
Std Dev 7.684e+08
80
60
40
20
0

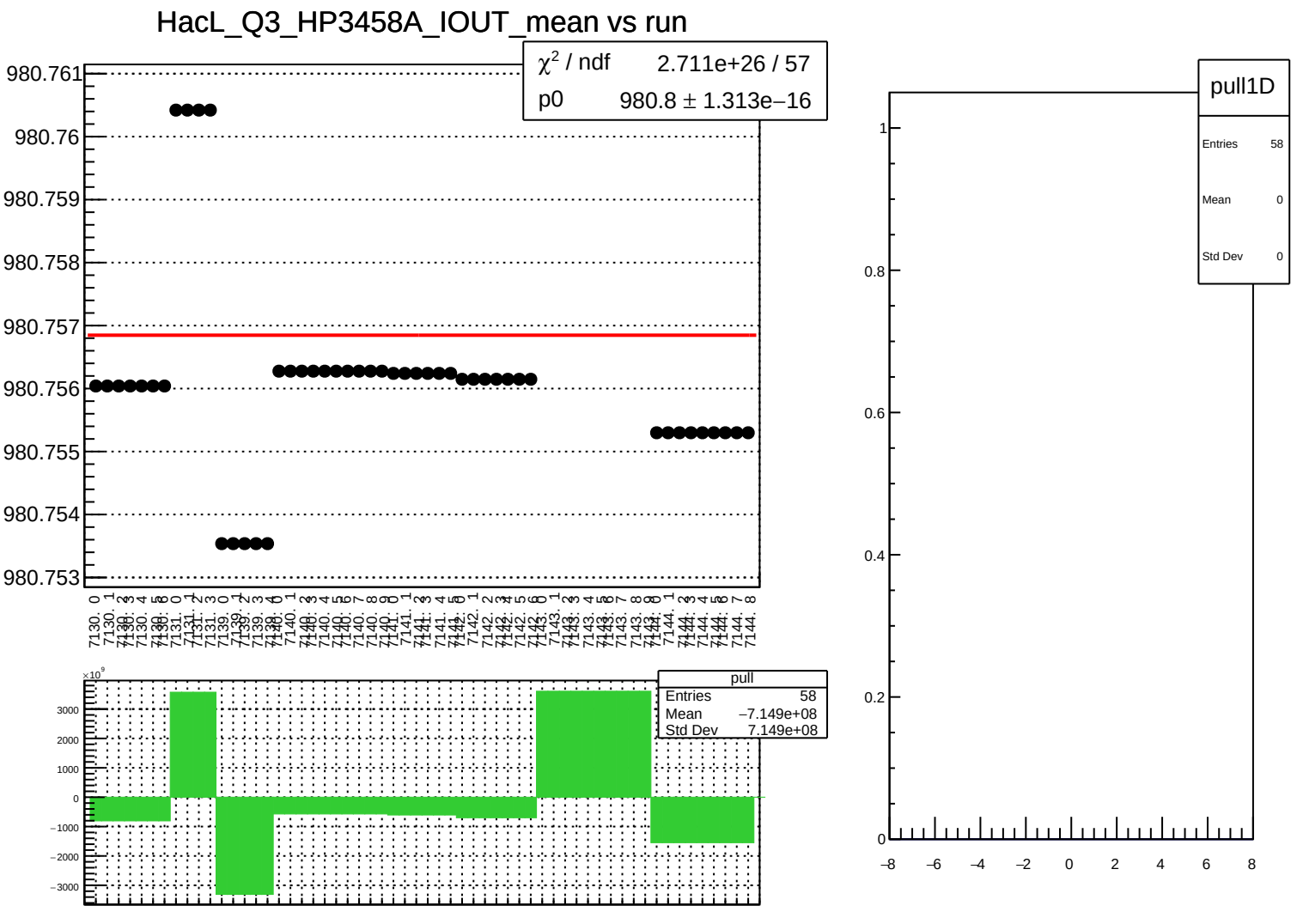

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

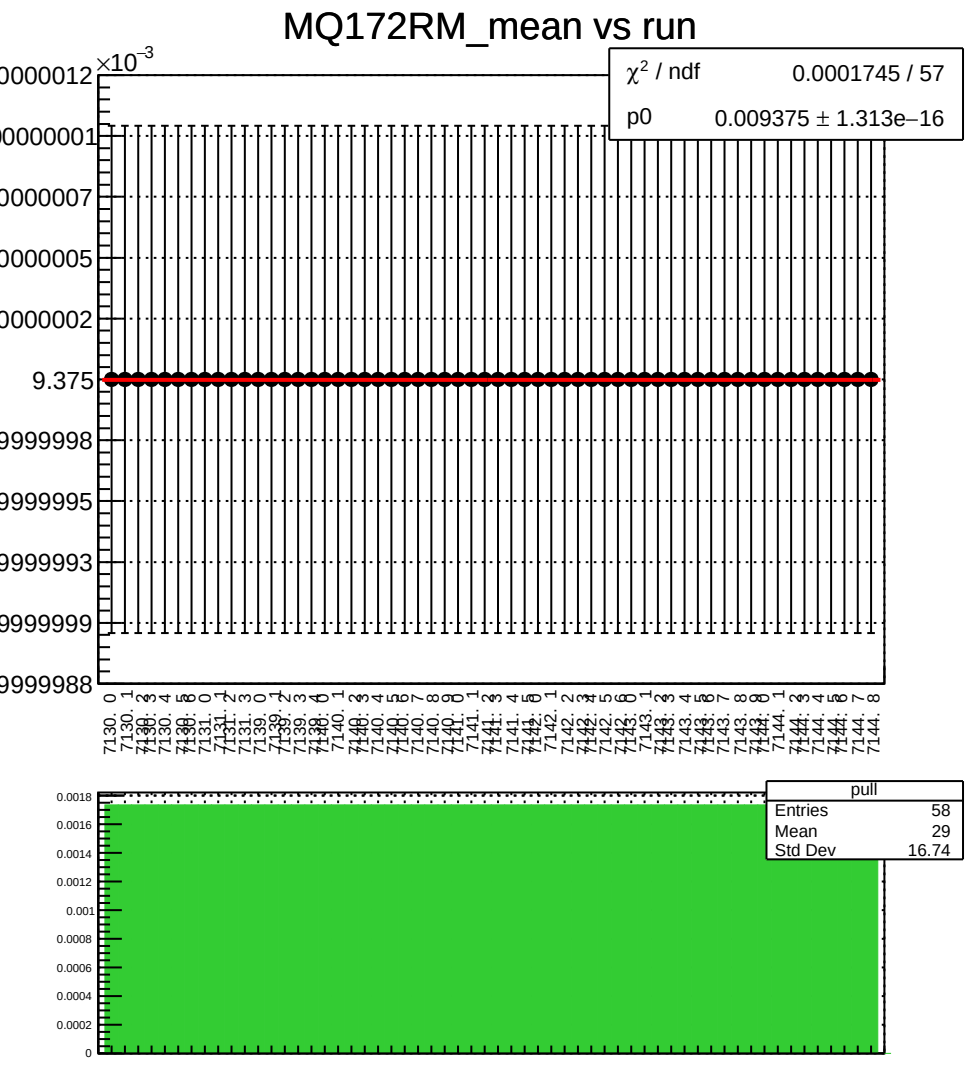

MQ171LM_mean vs run
χ² / ndf 0.0001745 / 57
p0 0.009375 ± 1.313e−16
×10⁻³
pull
Entries 58
Mean 29
Std Dev 16.74

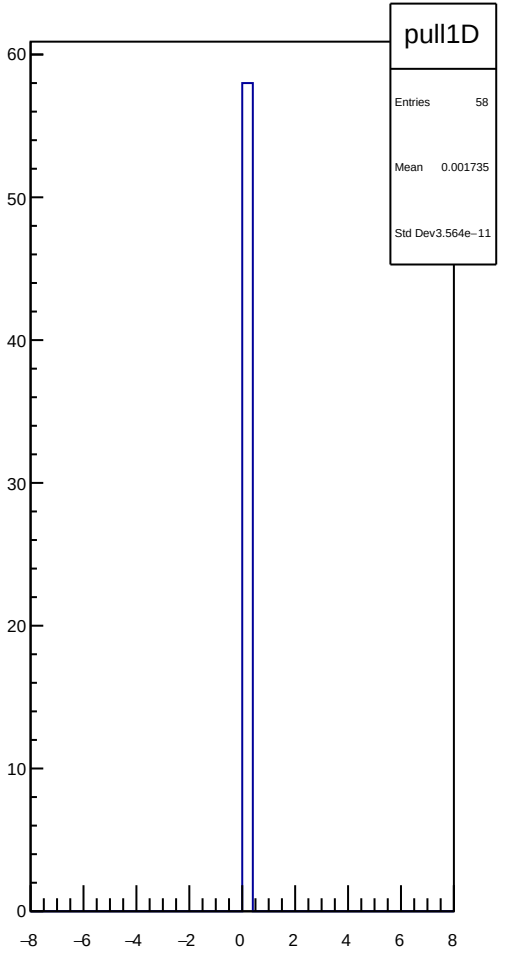

pull1D
Entries 58
Mean 0.001735
Std Dev3.564e−11

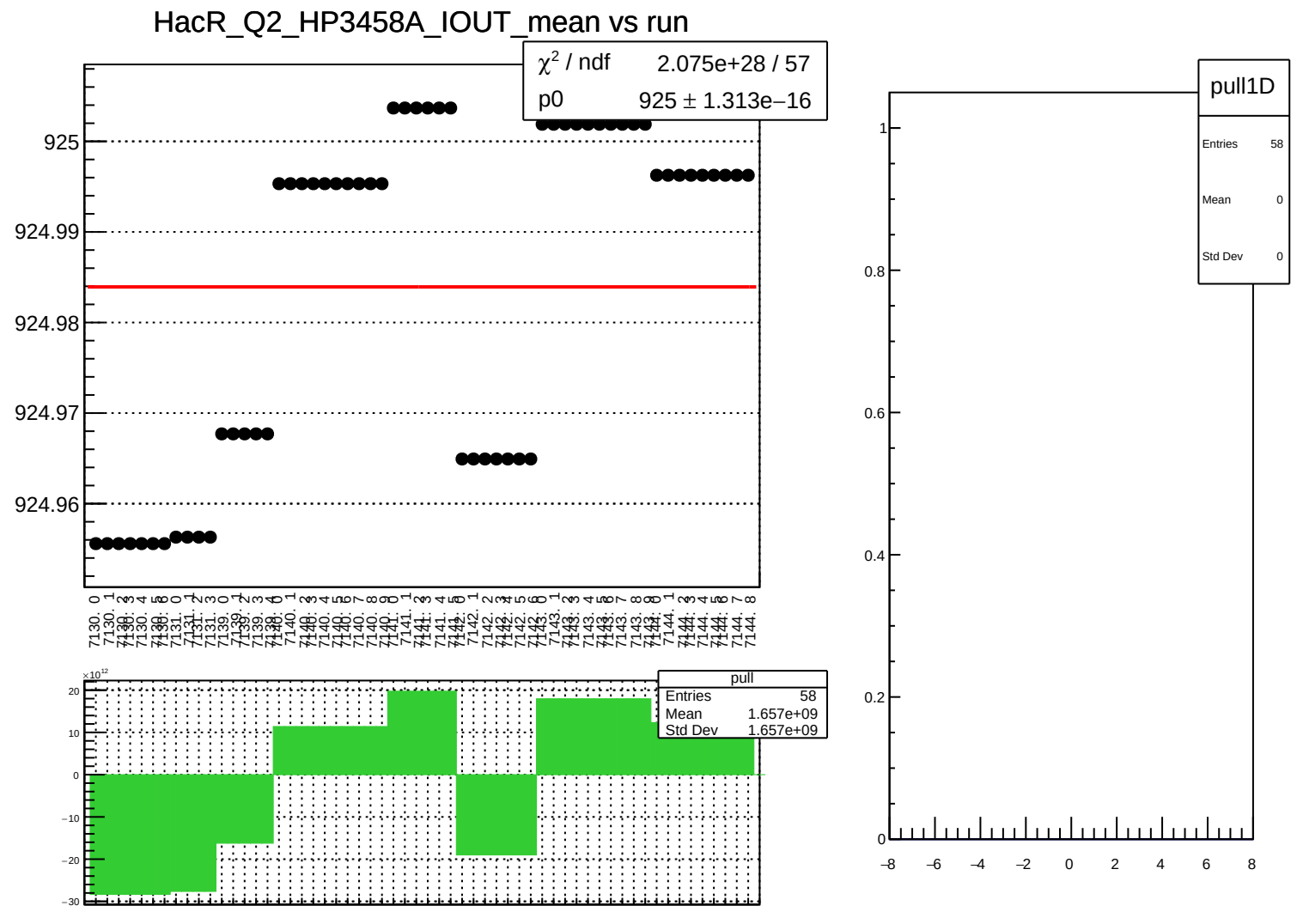

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.835e+28 / 57
p0 931.8 ± 1.313e−16
931.81
931.8
931.79
931.78
931.77
931.76
931.75
931.74
931.73
931.72
pull
Entries 58
Mean −1.107e+09
Std Dev 1.107e+09
×10¹²
10
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

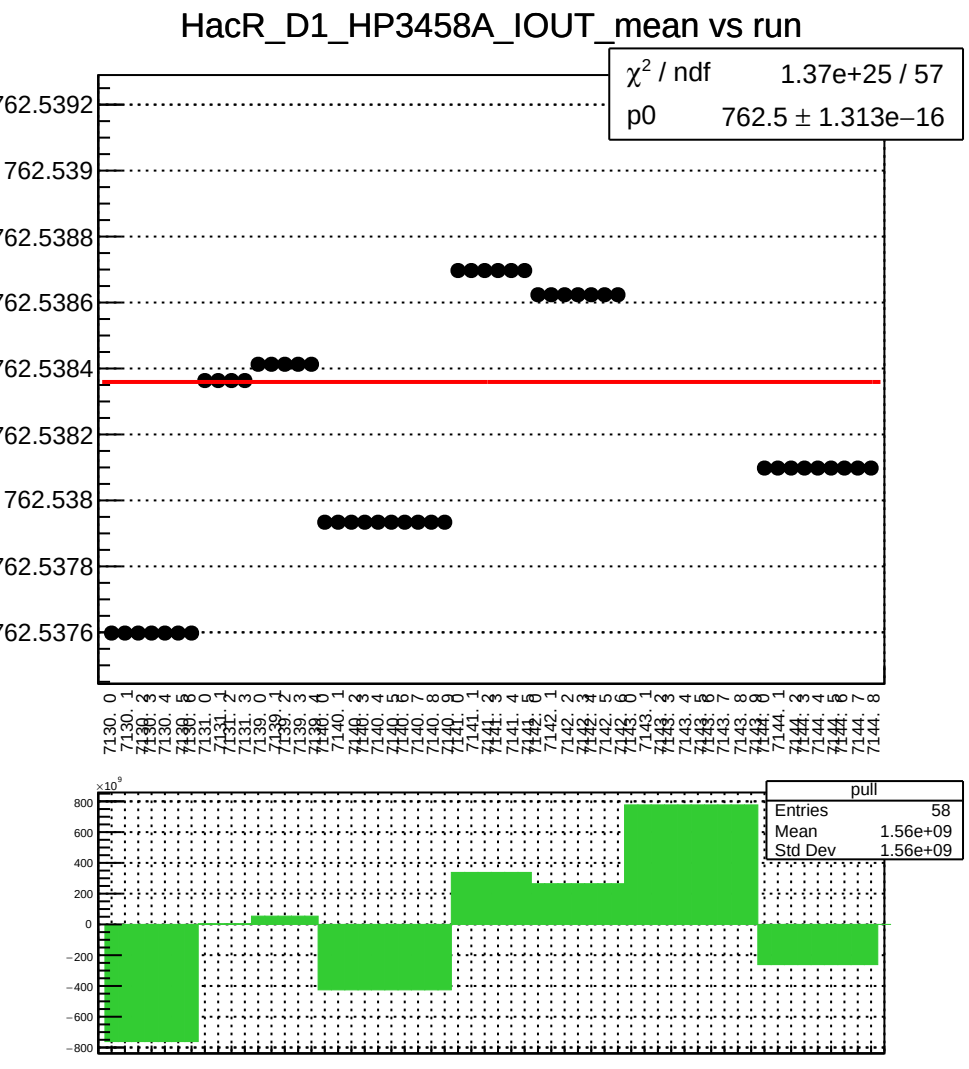

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 6.198e+25 / 57
p0 741.5 ± 1.313e−16
741.498
741.4975
741.497
741.4965
741.496
741.4955
741.495
741.4945
×10⁹
1500
1000
500
0
−500
−1000
−1500
pull
Entries 58
Mean −1.222e+09
Std Dev 1.222e+09
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

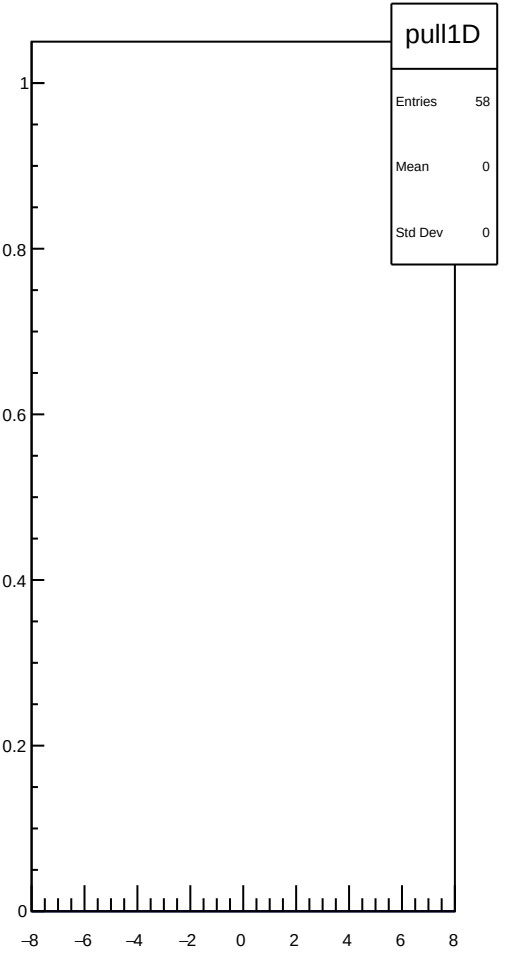

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.711e+26 / 57
p0 980.8 ± 1.313e−16
980.761
980.76
980.759
980.758
980.757
980.756
980.755
980.754
980.753
pull
Entries 58
Mean −7.149e+08
Std Dev 7.149e+08
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

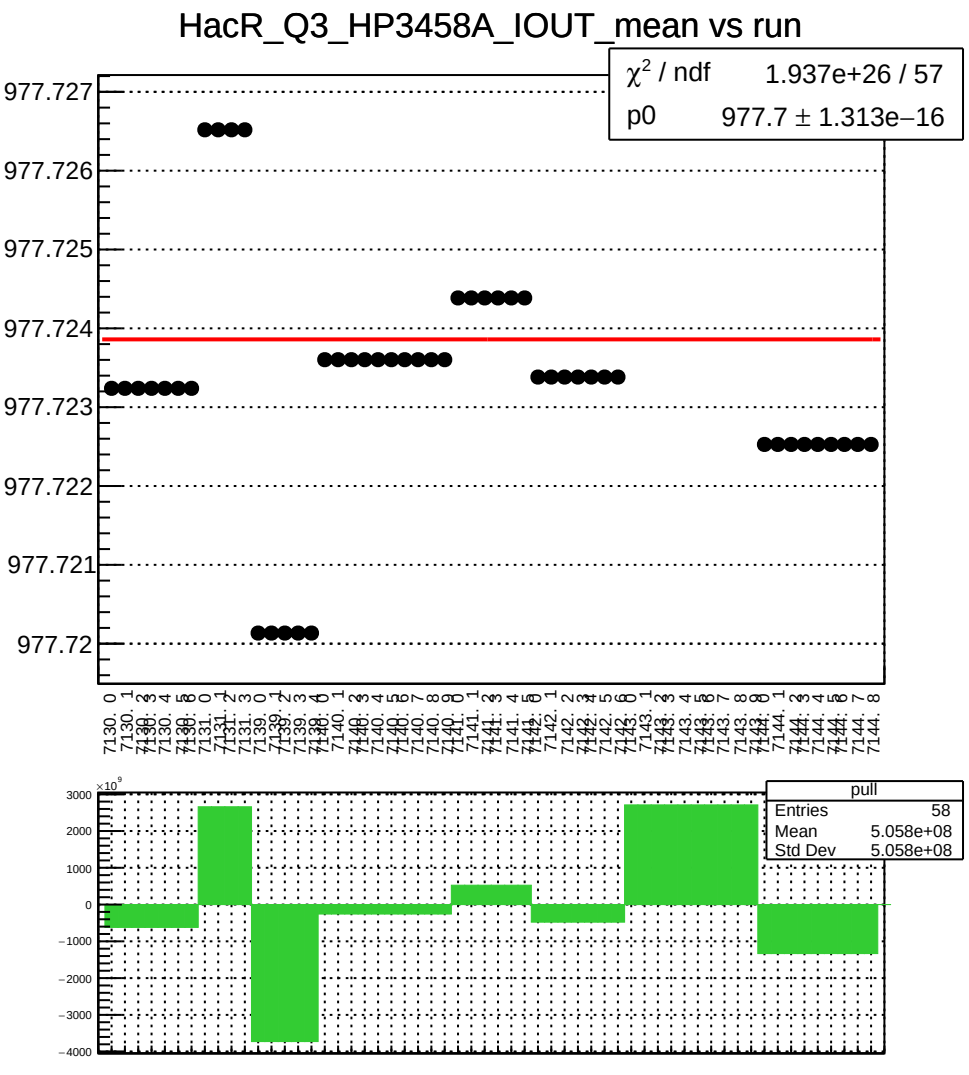

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.0001745 / 57
p0 0.009375 ± 1.313e−16
pull
Entries 58
Mean 29
Std Dev 16.74

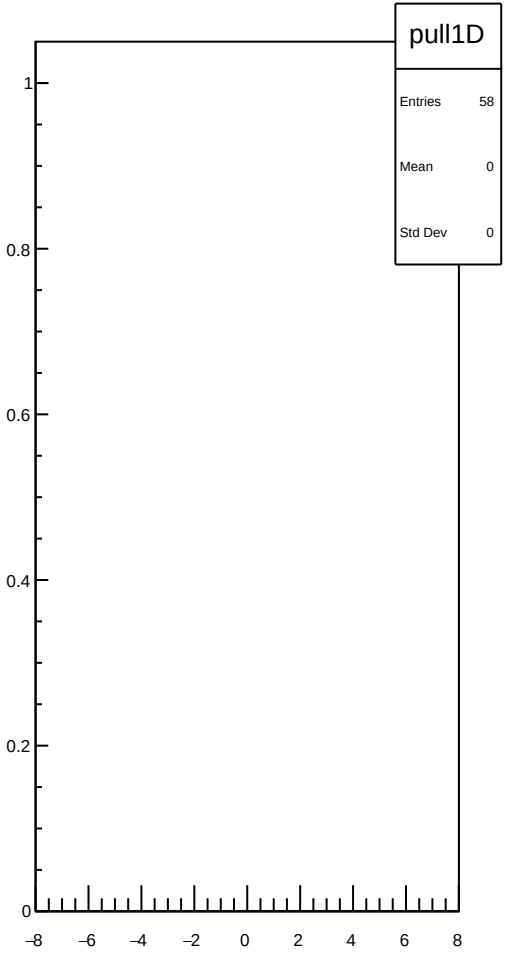

pull1D
Entries 58
Mean 0.001735
Std Dev3.564e−11

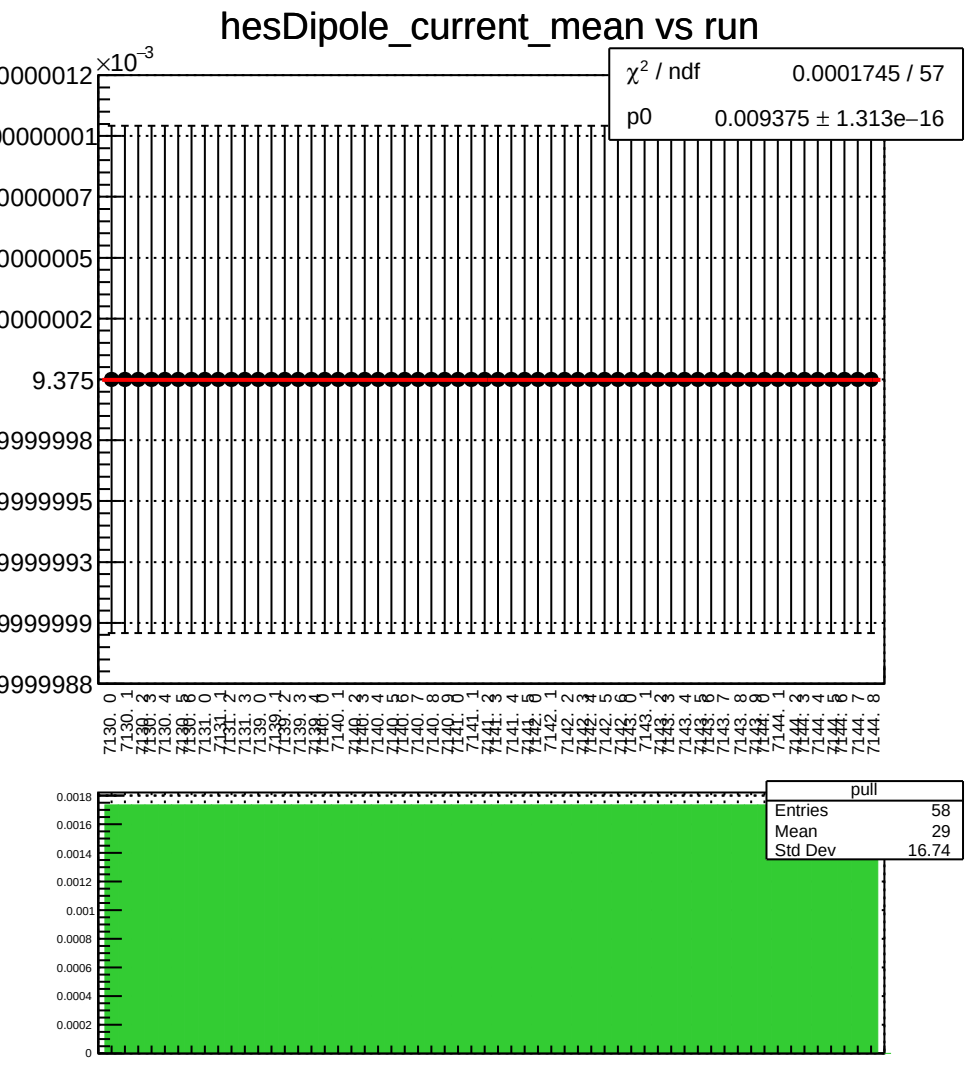

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.075e+28 / 57
p0 925 ± 1.313e−16
925
924.99
924.98
924.97
924.96
pull
Entries 58
Mean 1.657e+09
Std Dev 1.657e+09
pull1D
Entries 58
Mean 0
Std Dev 0

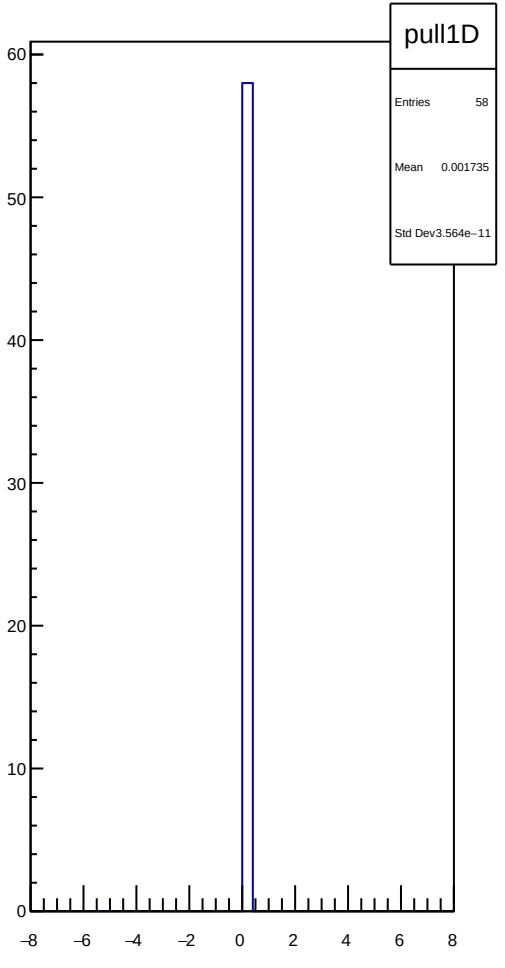

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.37e+25 / 57
p0 762.5 ± 1.313e−16
762.5392
762.539
762.5388
762.5386
762.5384
762.5382
762.538
762.5378
762.5376
pull
Entries 58
Mean 1.56e+09
Std Dev 1.56e+09
×10⁹
800
600
400
200
0
−200
−400
−600
−800

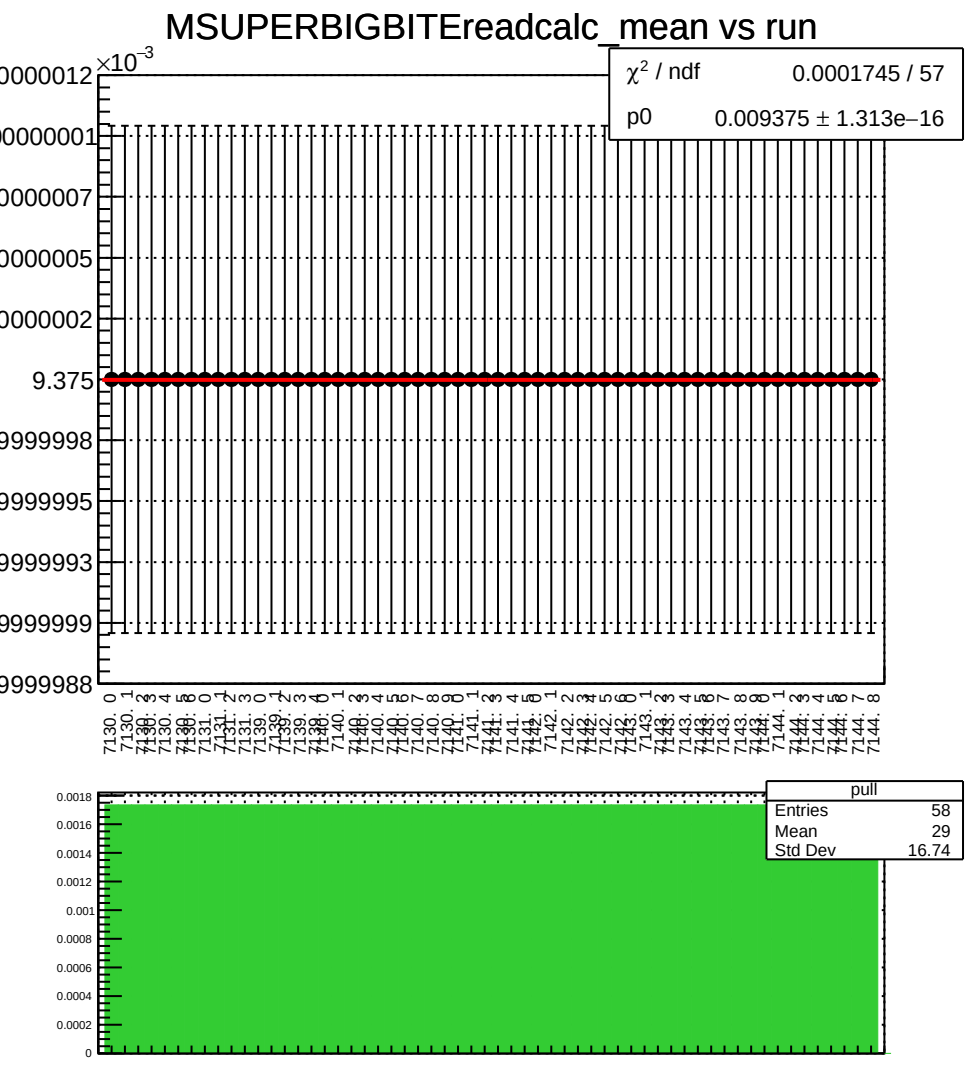

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

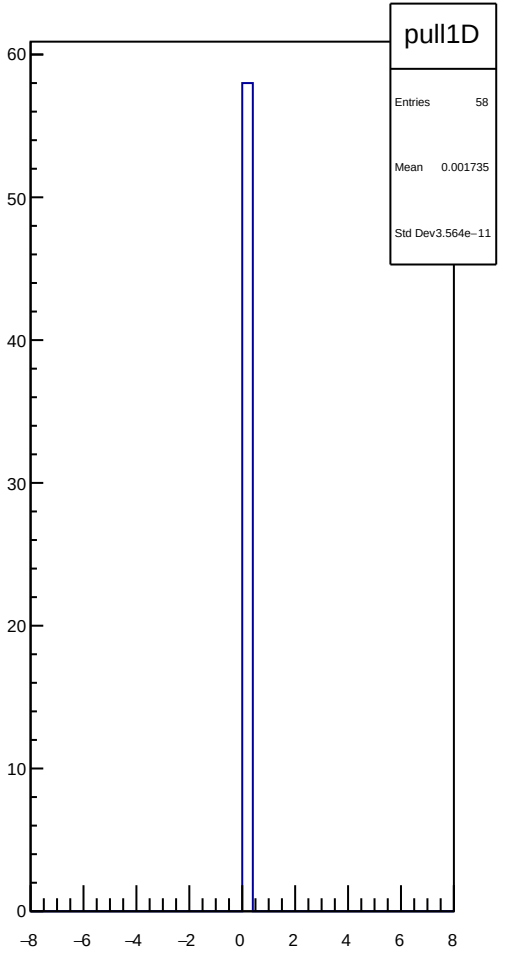

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.937e+26 / 57
p0 977.7 ± 1.313e−16
977.727
977.726
977.725
977.724
977.723
977.722
977.721
977.72
pull
Entries 58
Mean 5.058e+08
Std Dev 5.058e+08
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000

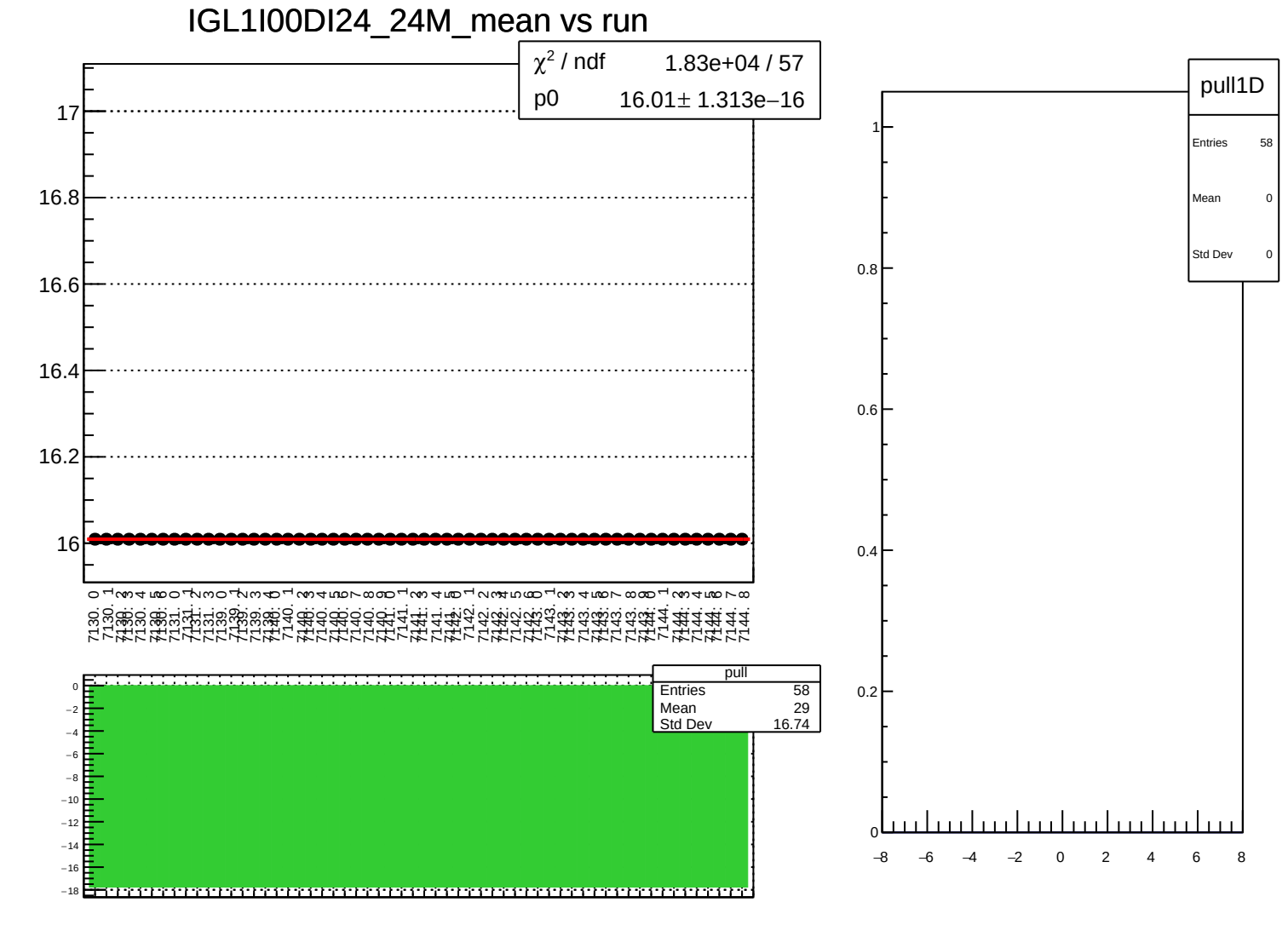

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

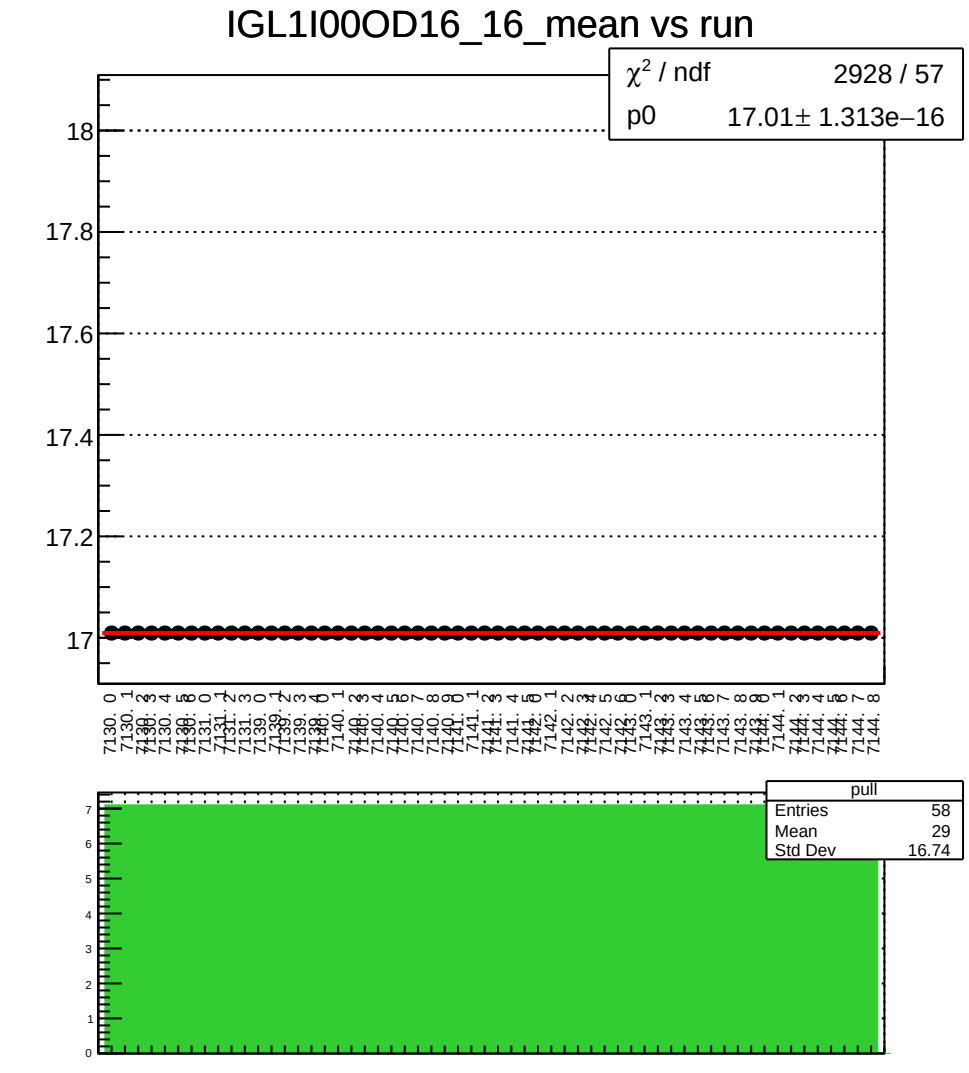

hesDipole_current_mean vs run
χ² / ndf 0.0001745 / 57
p0 0.009375 ± 1.313e−16
×10⁻³
pull
Entries 58
Mean 29
Std Dev 16.74

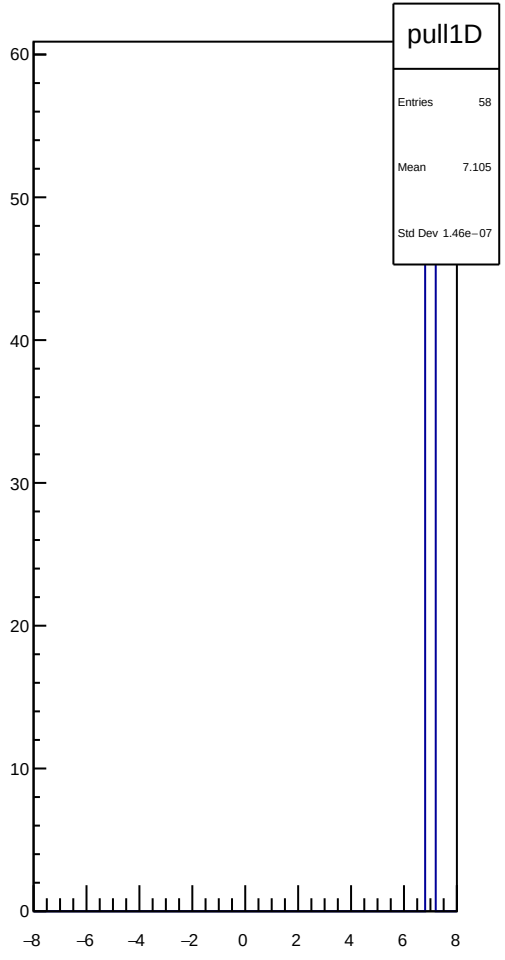

pull1D
Entries 58
Mean 0.001735
Std Dev3.564e−11

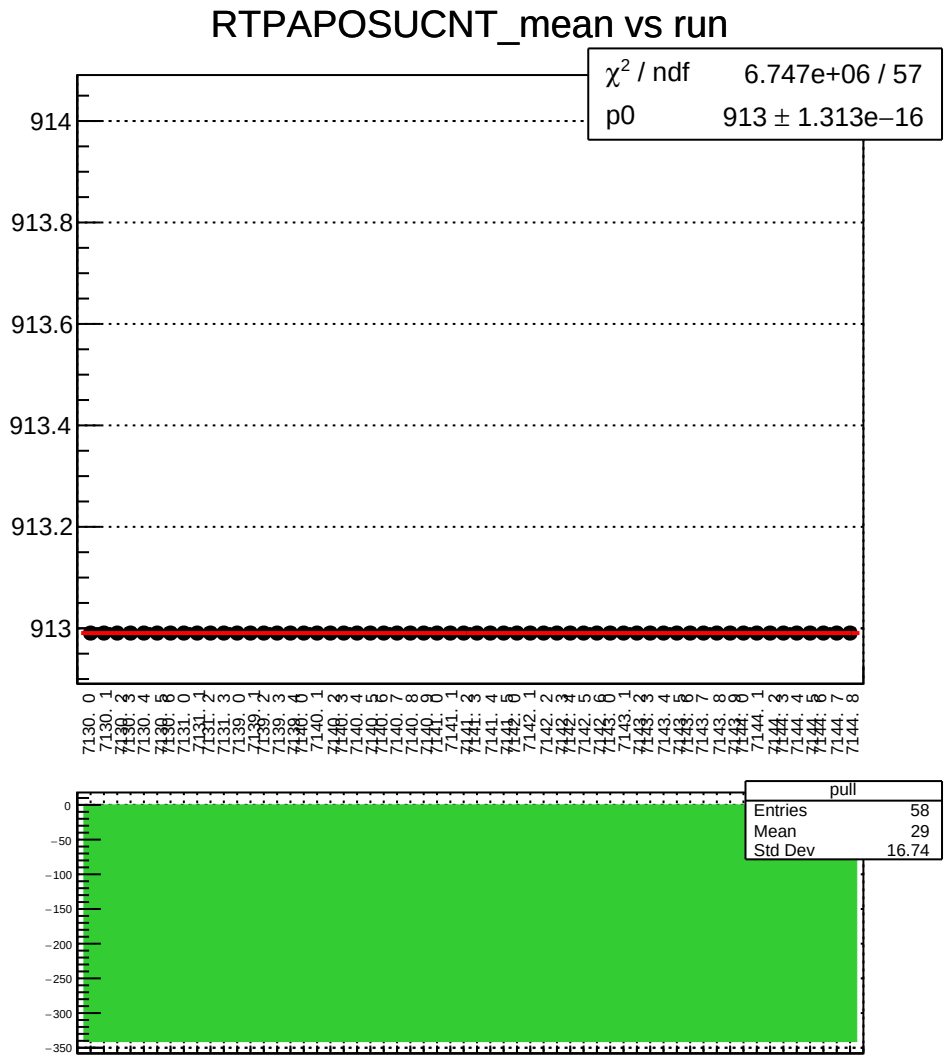

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0001745 / 57
p0 0.009375 ± 1.313e−16
×10⁻³
pull
Entries 58
Mean 29
Std Dev 16.74

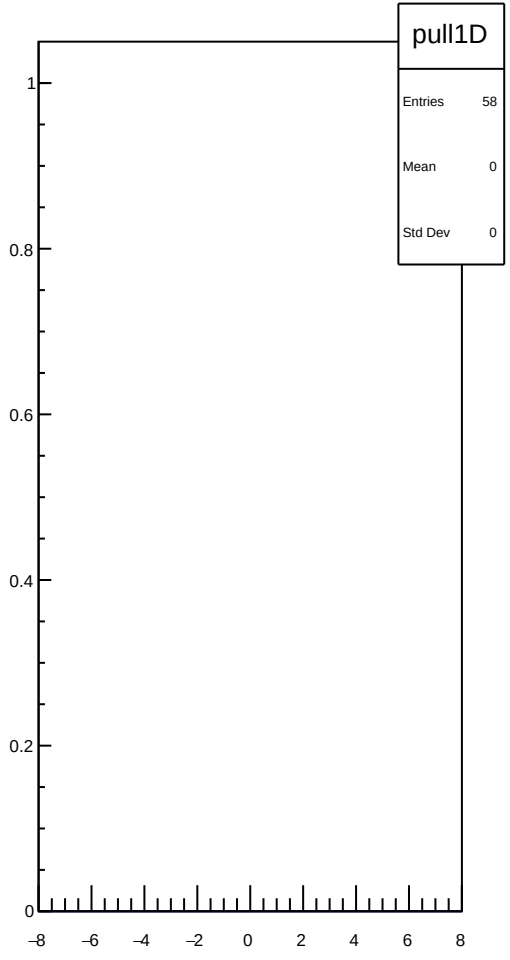

pull1D
Entries 58
Mean 0.001735
Std Dev3.564e−11

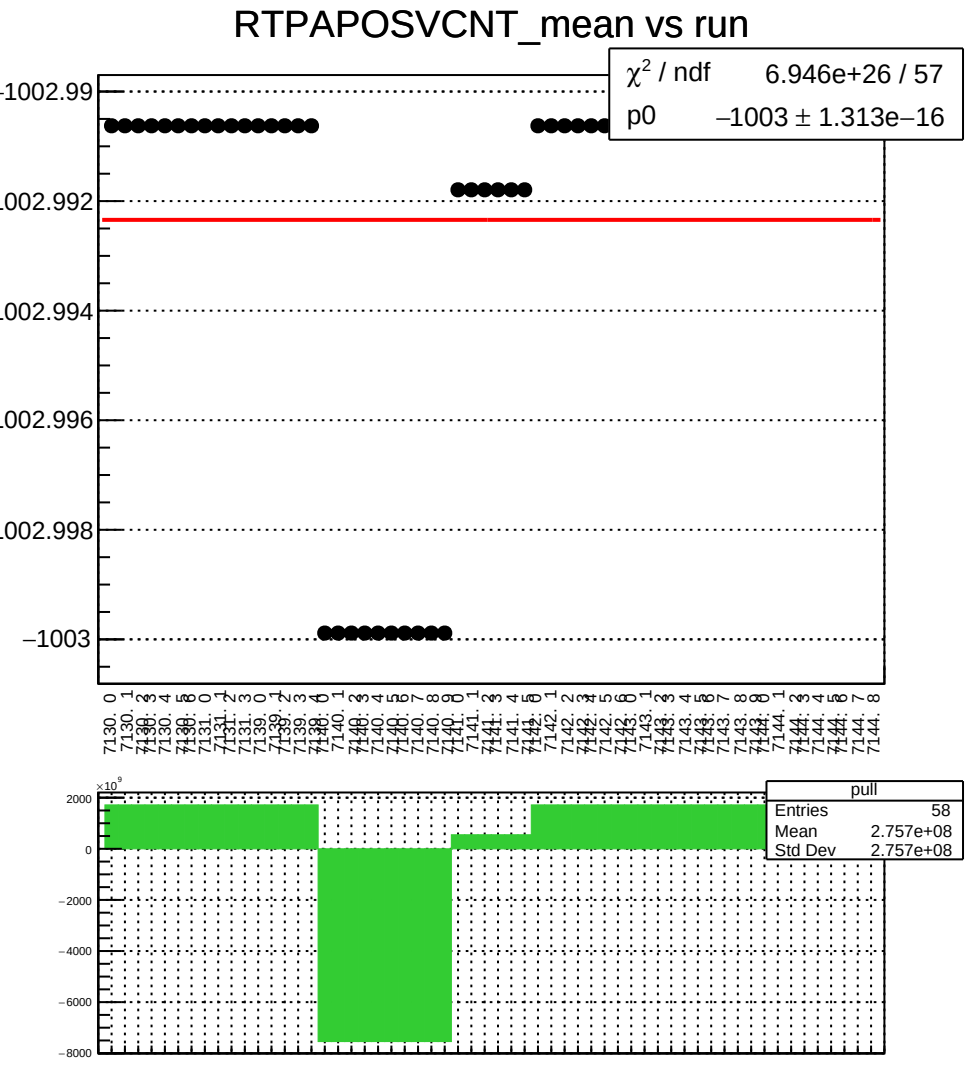

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.83e+04 / 57
p0 16.01± 1.313e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 58
Mean 29
Std Dev 16.74
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

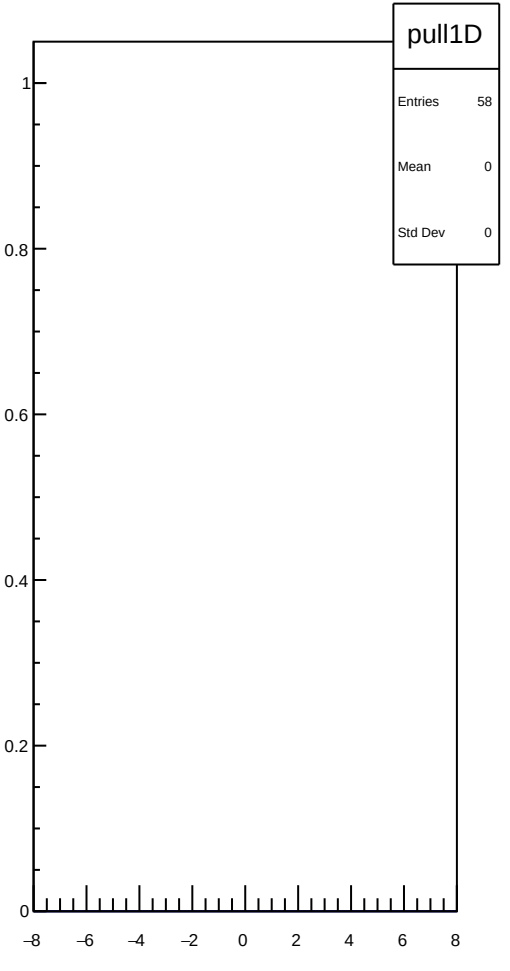

IGL1I00OD16_16_mean vs run
χ² / ndf 2928 / 57
p0 17.01± 1.313e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 58
Mean 29
Std Dev 16.74
7
6
5
4
3
2
1
0


pull1D
Entries 58
Mean 7.105
Std Dev 1.46e−07
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 6.747e+06 / 57
p0 913 ± 1.313e−16
914
913.8
913.6
913.4
913.2
913
pull
Entries 58
Mean 29
Std Dev 16.74
0
−50
−100
−150
−200
−250
−300
−350


pull1D
Entries 58
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 6.946e+26 / 57
p0 −1003 ± 1.313e−16
−1002.99
−1002.992
−1002.994
−1002.996
−1002.998
−1003
pull
Entries 58
Mean 2.757e+08
Std Dev 2.757e+08
×10⁹
2000
0
−2000
−4000
−6000
−8000


pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8