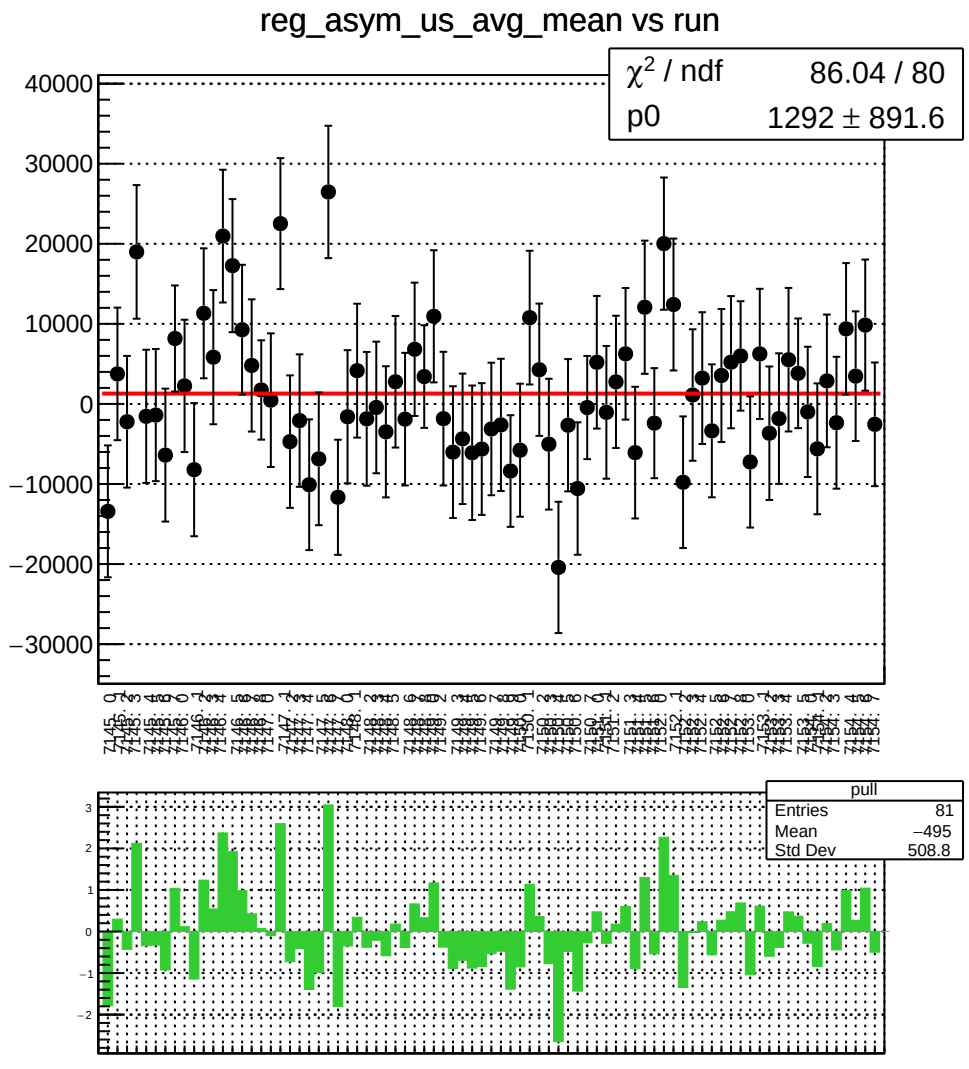
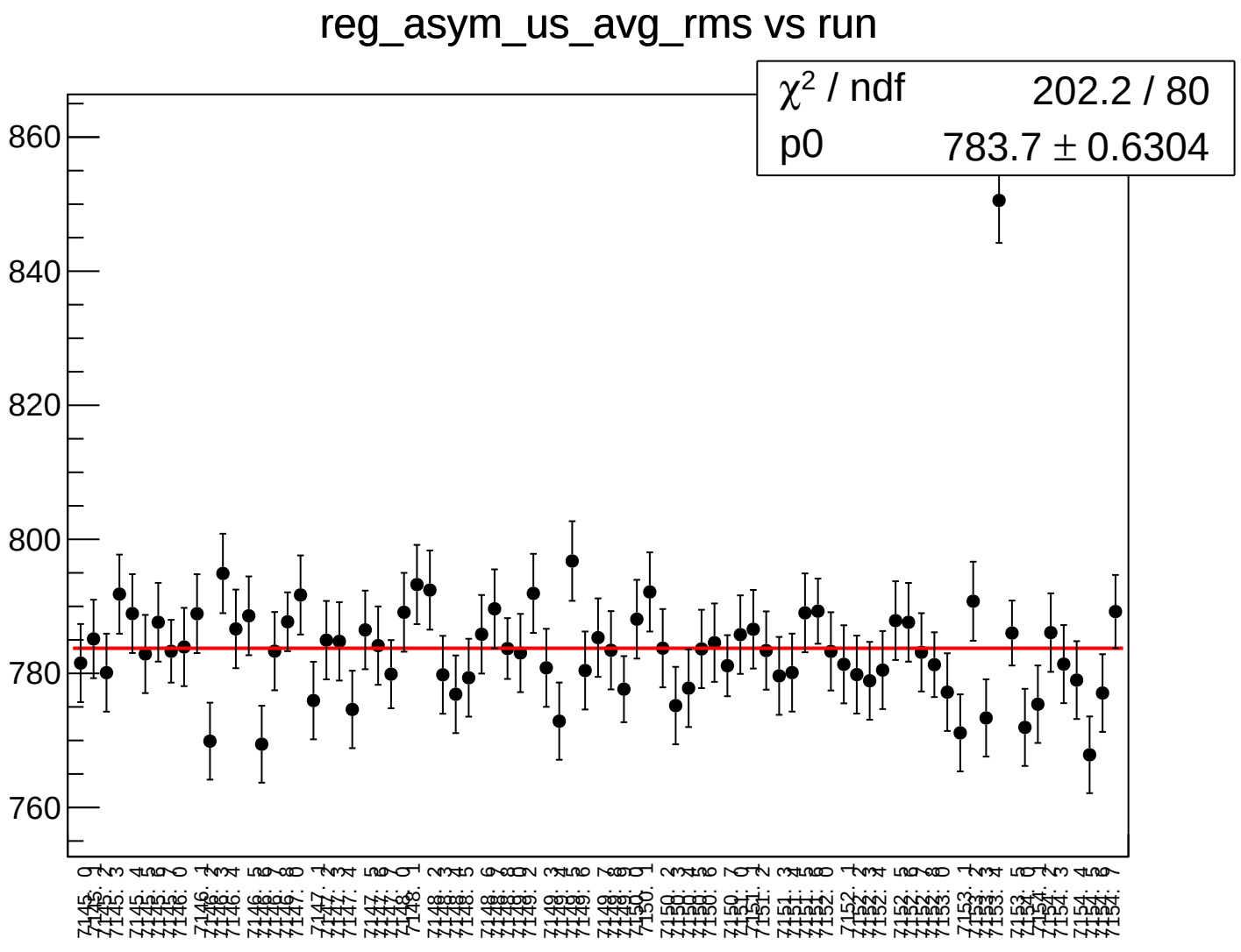
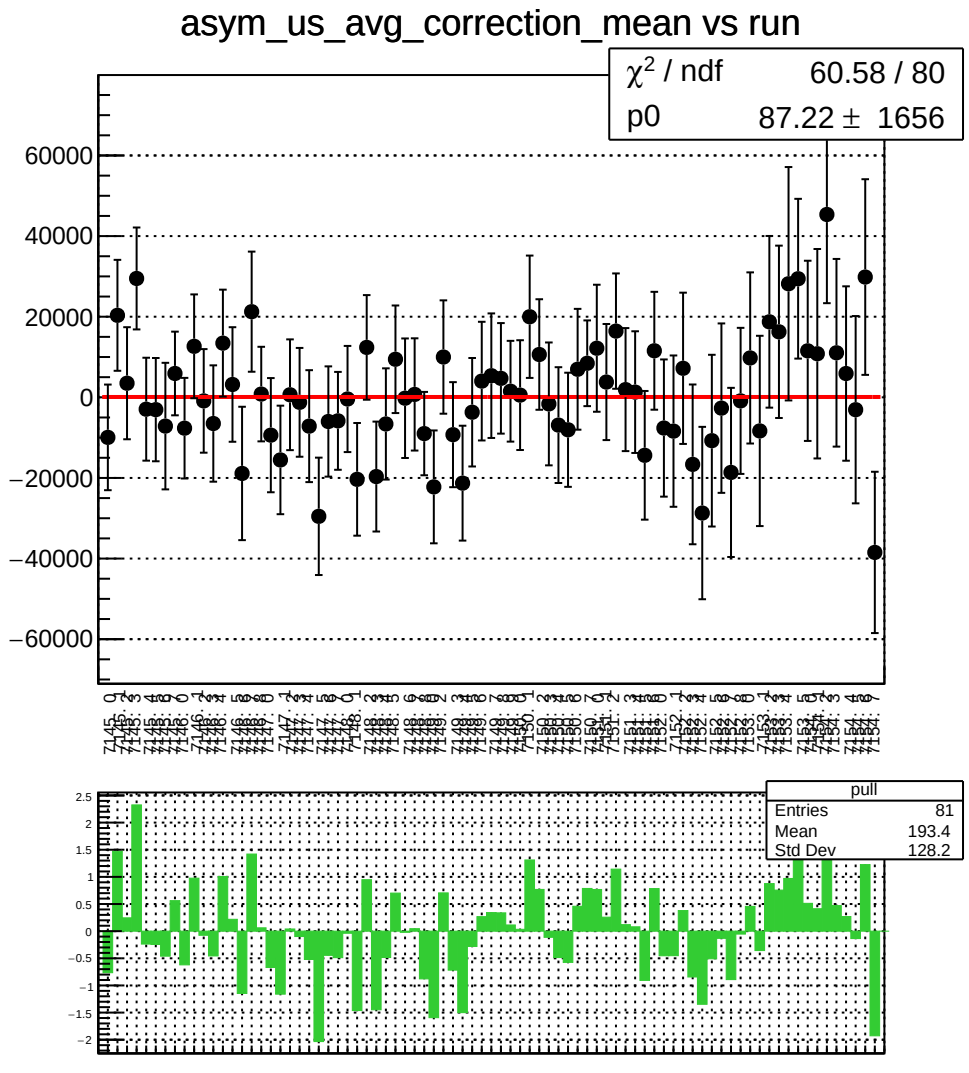
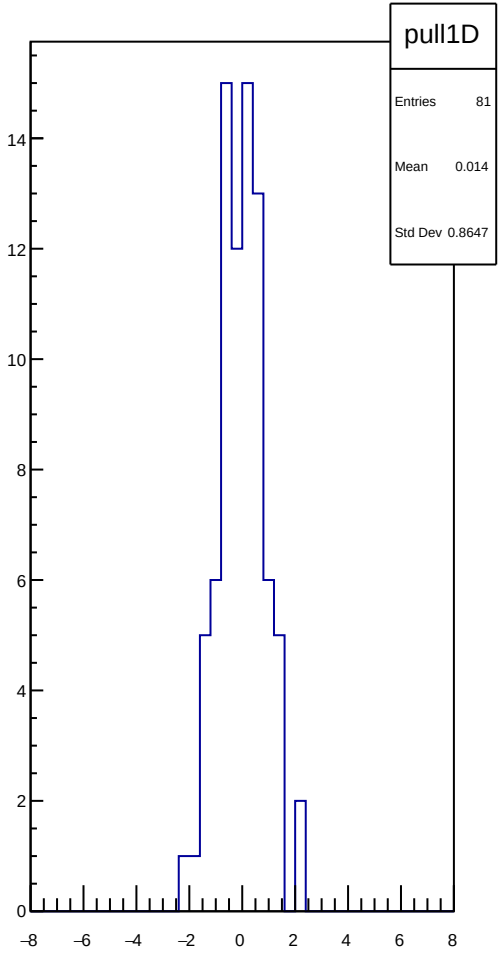
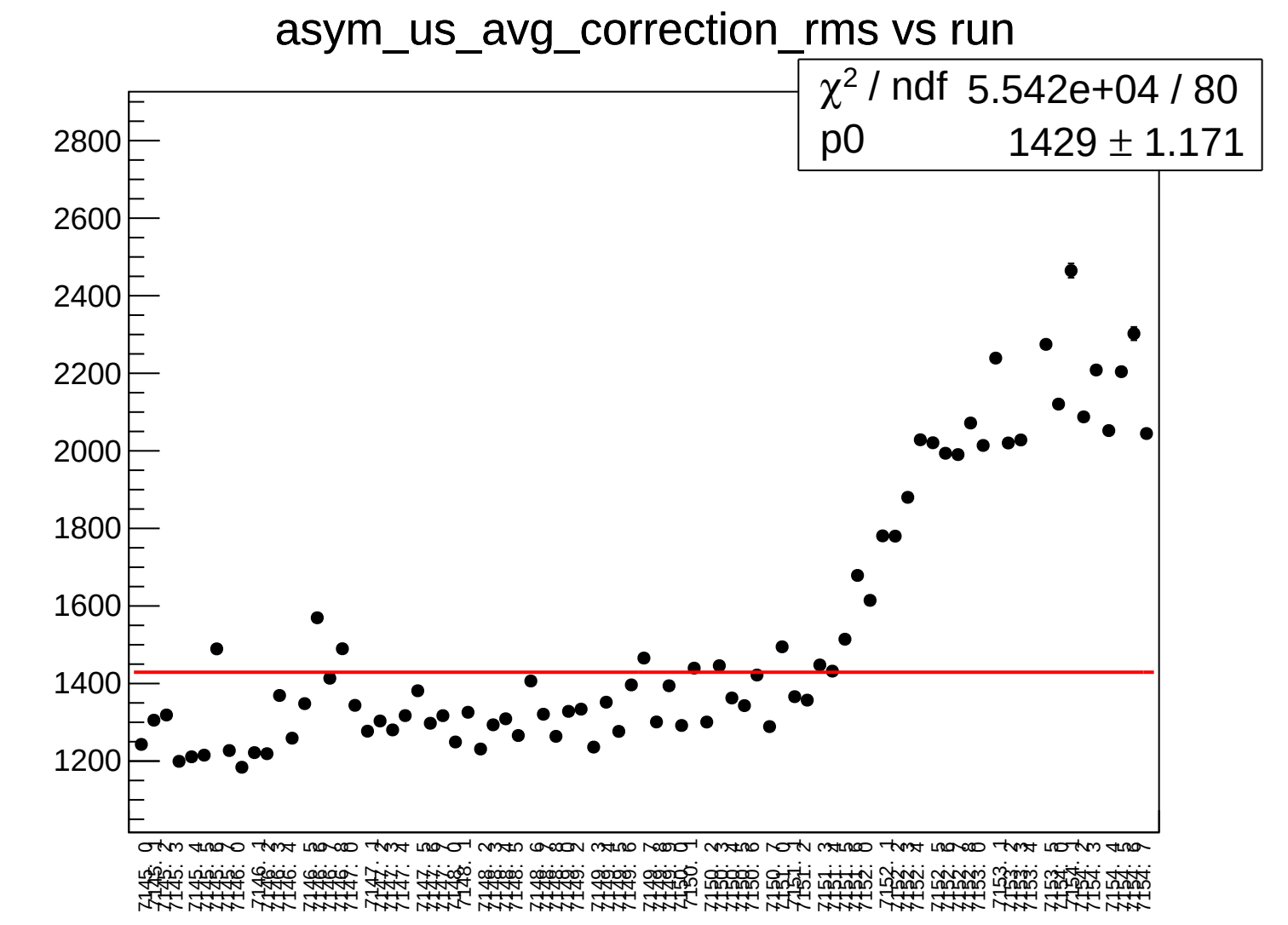
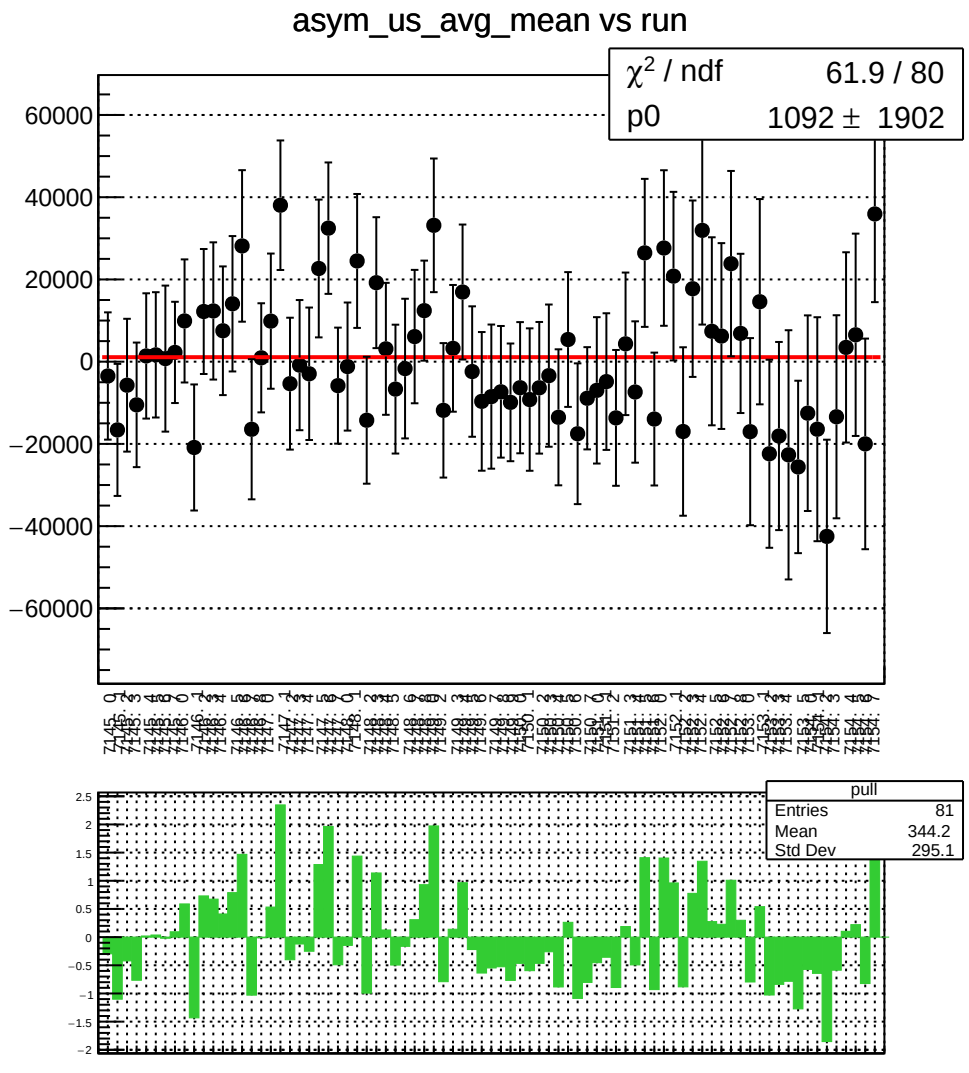

reg_asym_us_avg_mean vs run
χ² / ndf 86.04 / 80
p0 1292 ± 891.6
pull
Entries 81
Mean −495
Std Dev 508.8
pull1D
Entries 81
Mean 0.002636
Std Dev 1.031

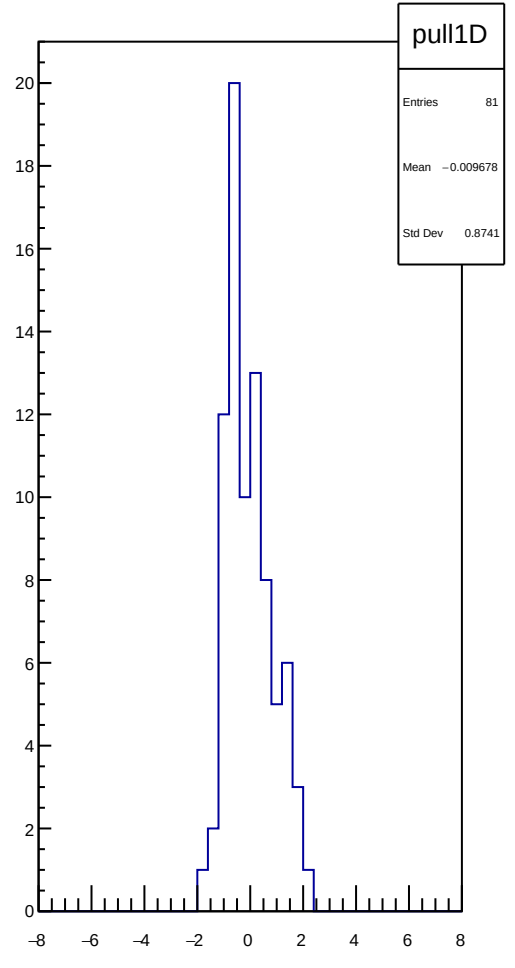

reg_asym_us_avg_rms vs run
χ² / ndf 202.2 / 80
p0 783.7 ± 0.6304
860
840
820
800
780
760

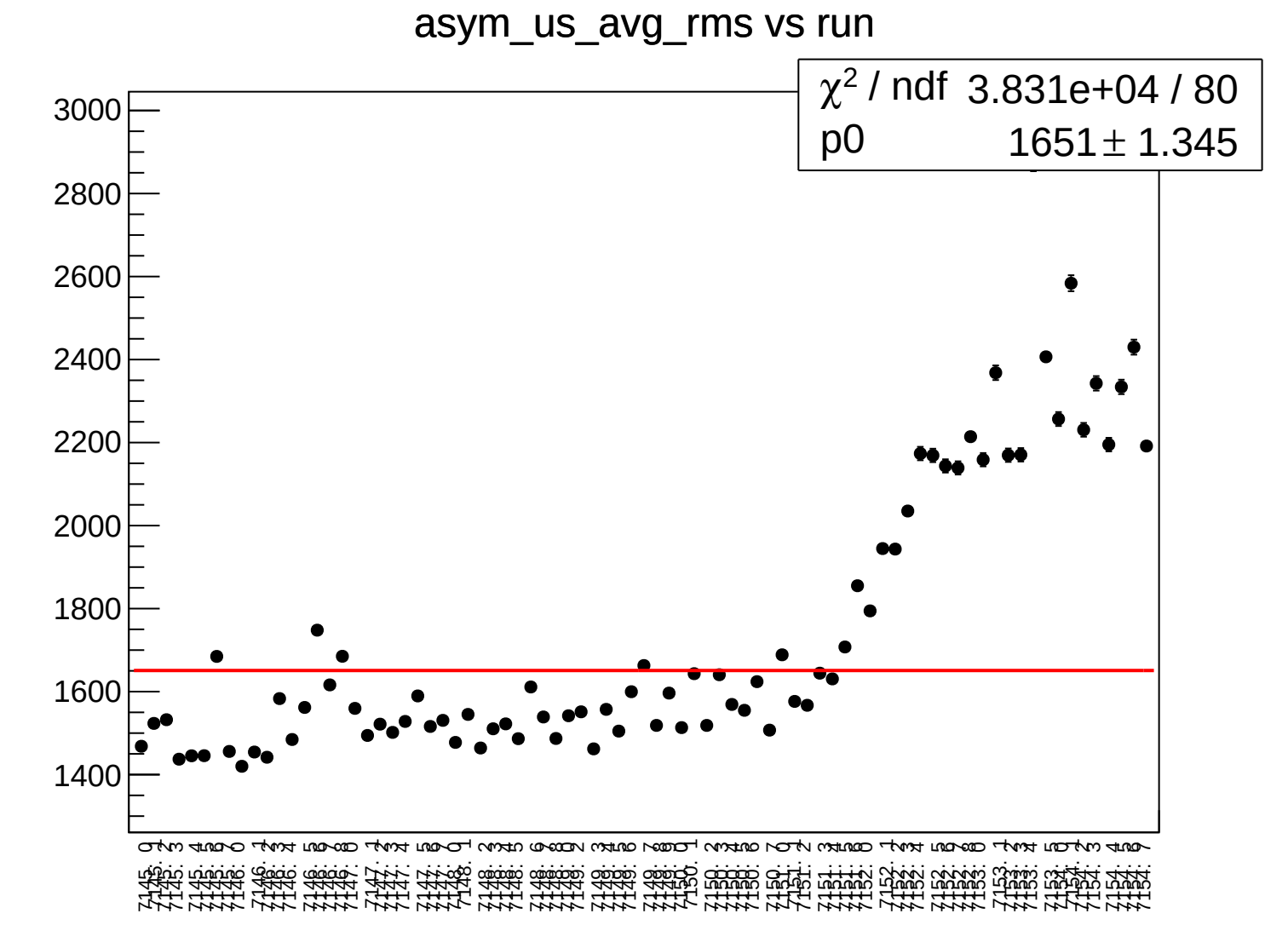

asym_us_avg_correction_mean vs run
χ² / ndf 60.58 / 80
p0 87.22 ± 1656
pull
Entries 81
Mean 193.4
Std Dev 128.2

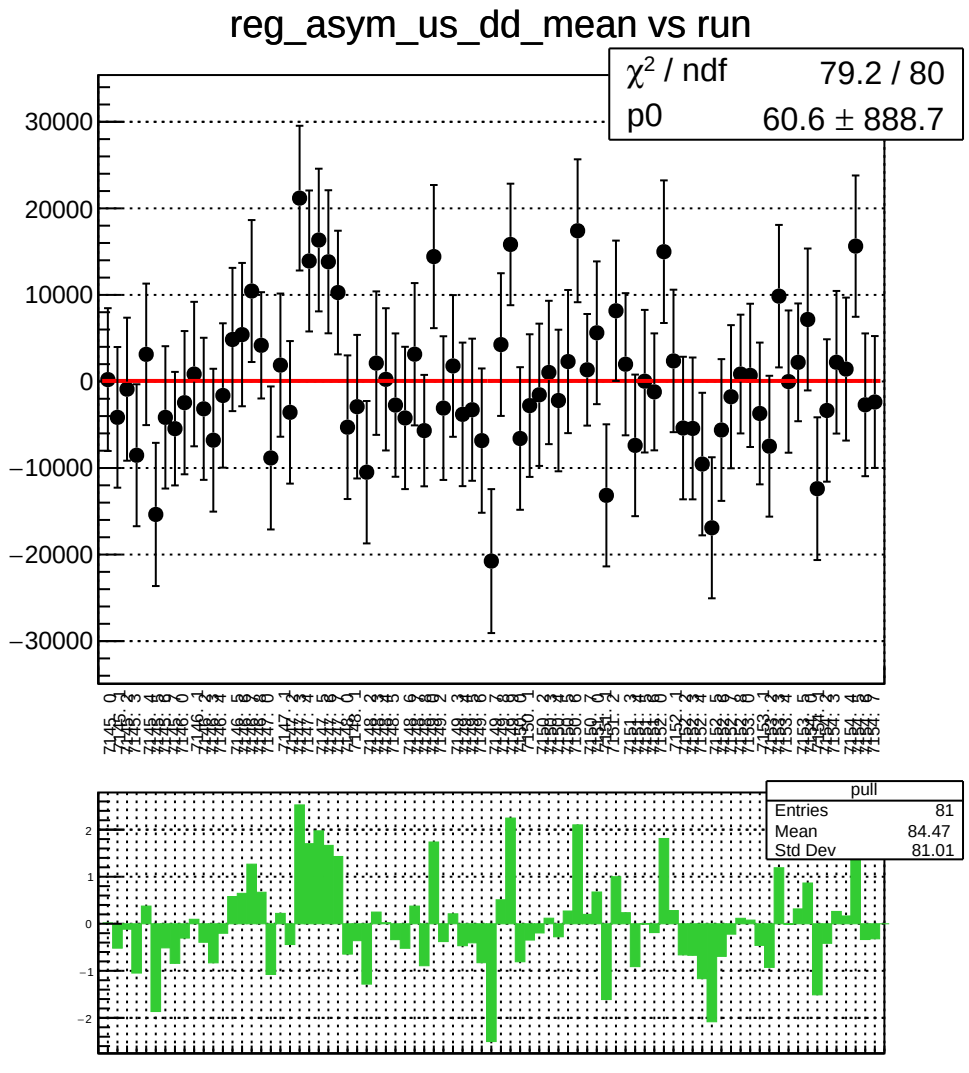

pull1D
Entries 81
Mean 0.014
Std Dev 0.8647

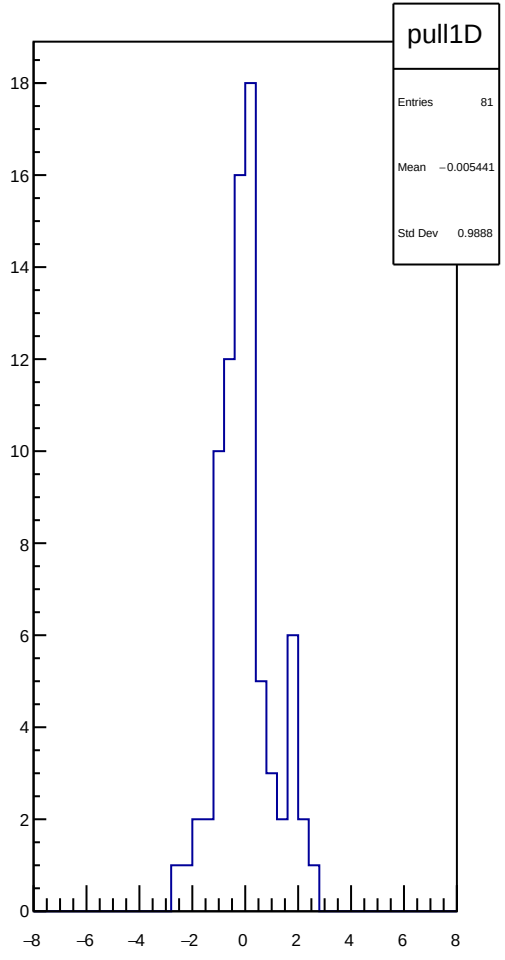

asym_us_avg_correction_rms vs run
χ² / ndf 5.542e+04 / 80
p0 1429 ± 1.171
2800
2600
2400
2200
2000
1800
1600
1400
1200

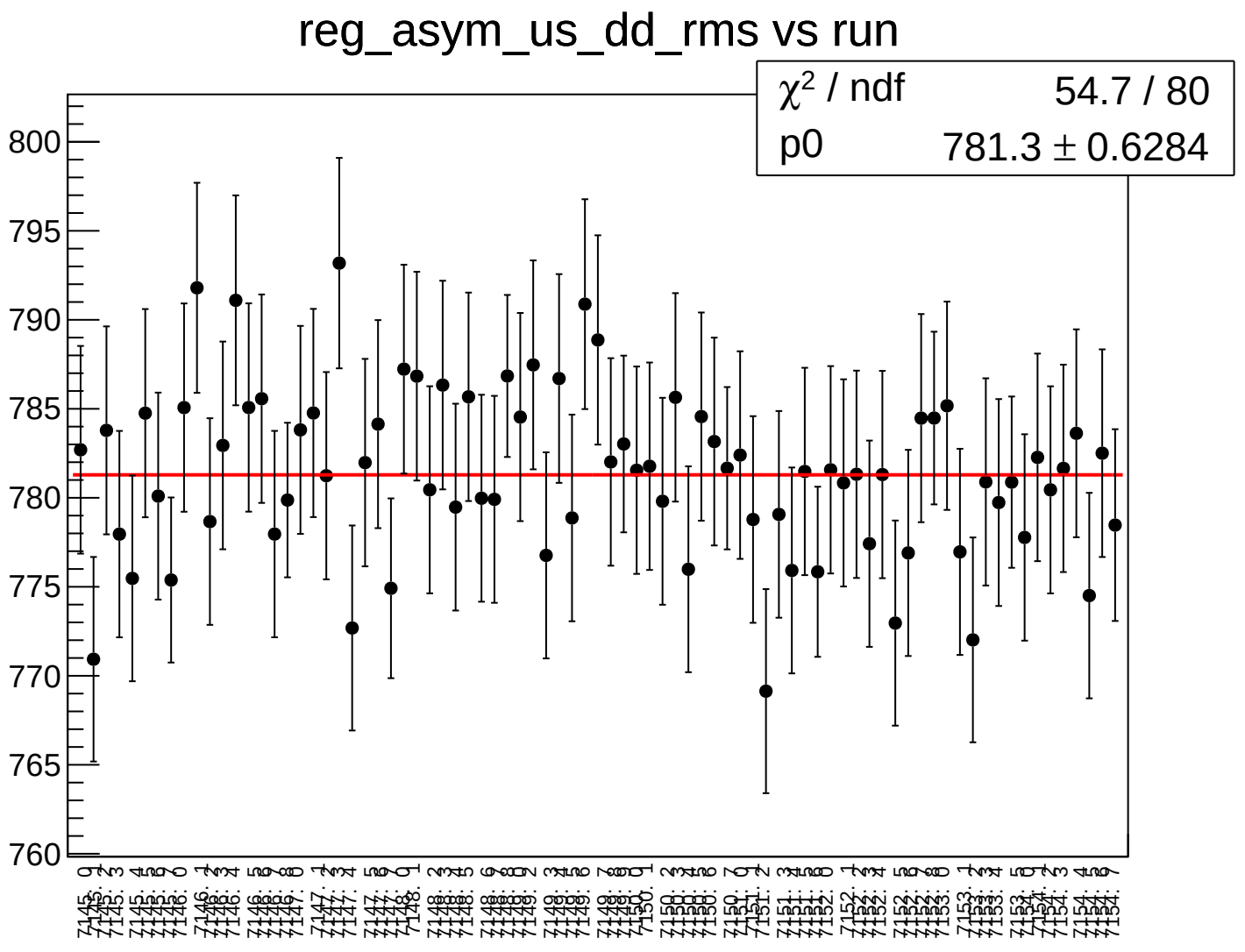

asym_us_avg_mean vs run
χ² / ndf 61.9 / 80
p0 1092 ± 1902
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 344.2
Std Dev 295.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

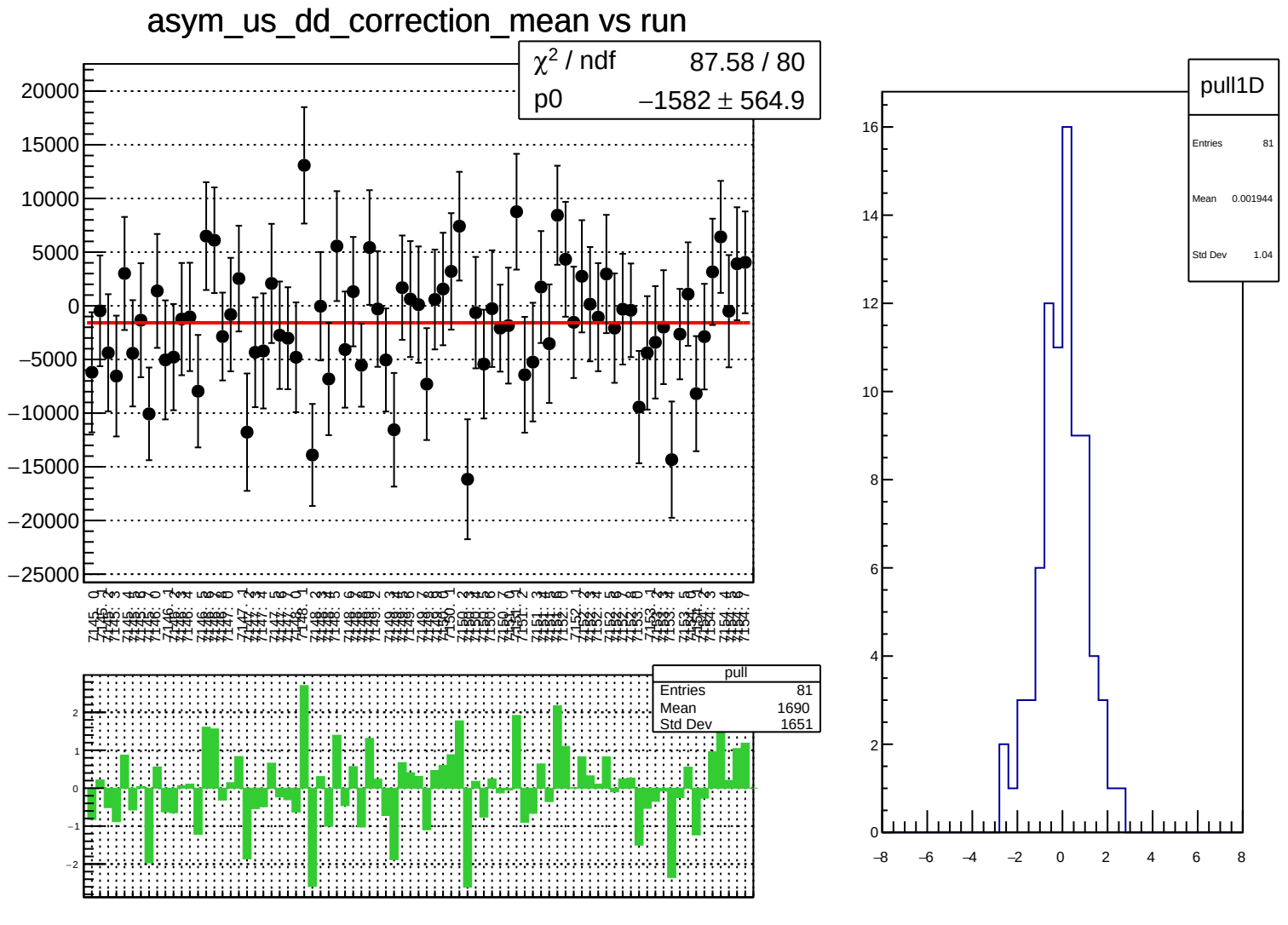

pull1D
Entries 81
Mean −0.009678
Std Dev 0.8741
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

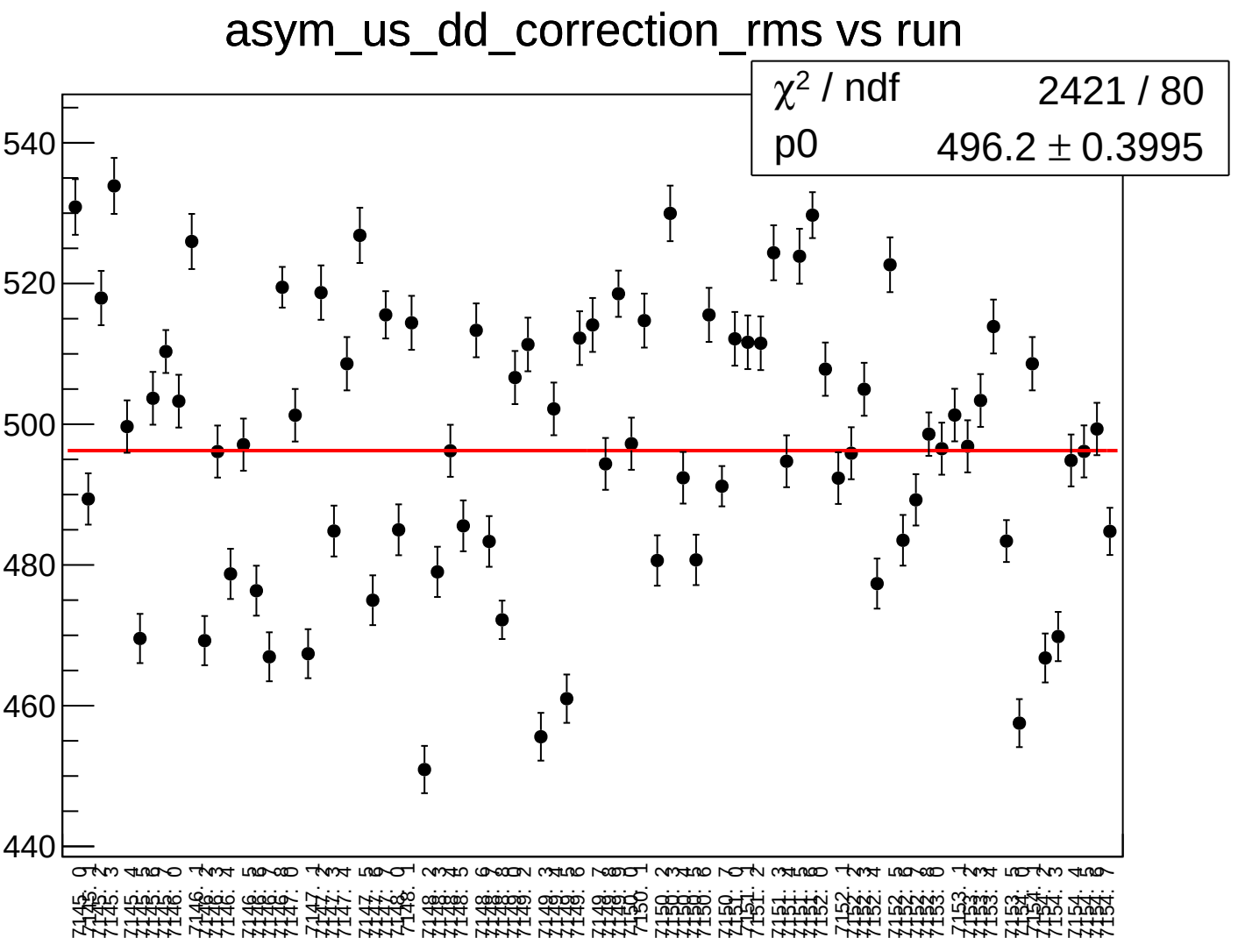

asym_us_avg_rms vs run
χ^2 / ndf 3.831e+04 / 80
p0 1651 ± 1.345
3000
2800
2600
2400
2200
2000
1800
1600
1400

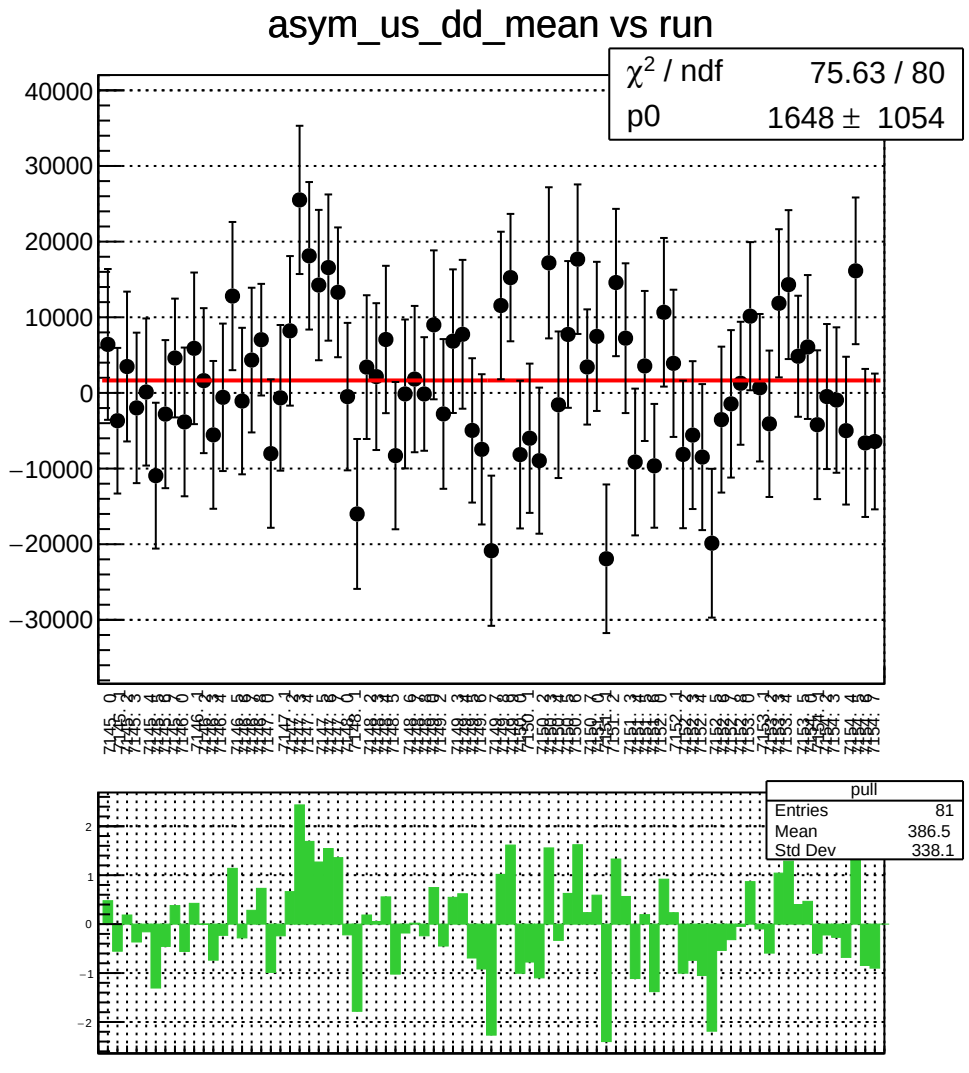

reg_asym_us_dd_mean vs run
χ² / ndf 79.2 / 80
p0 60.6 ± 888.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 84.47
Std Dev 81.01
2
1
0
−1
−2

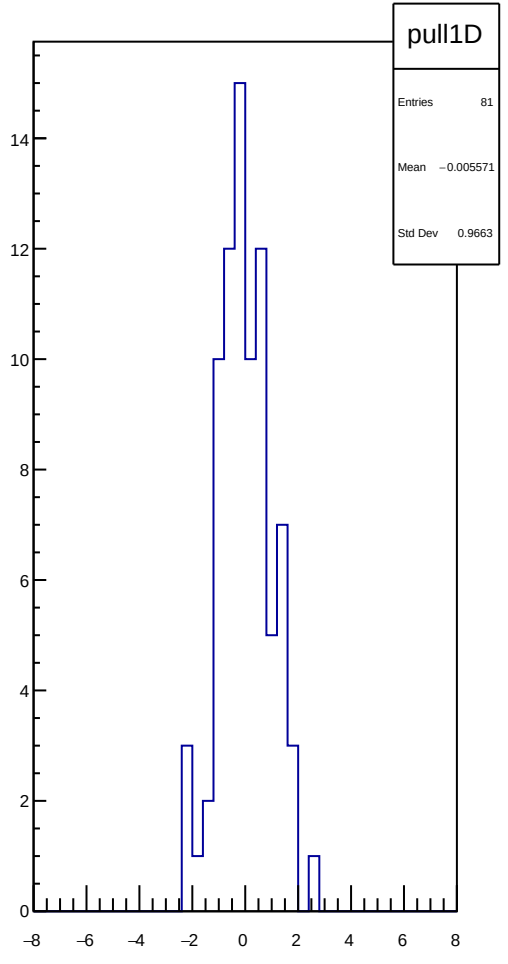

pull1D
Entries 81
Mean −0.005441
Std Dev 0.9888
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

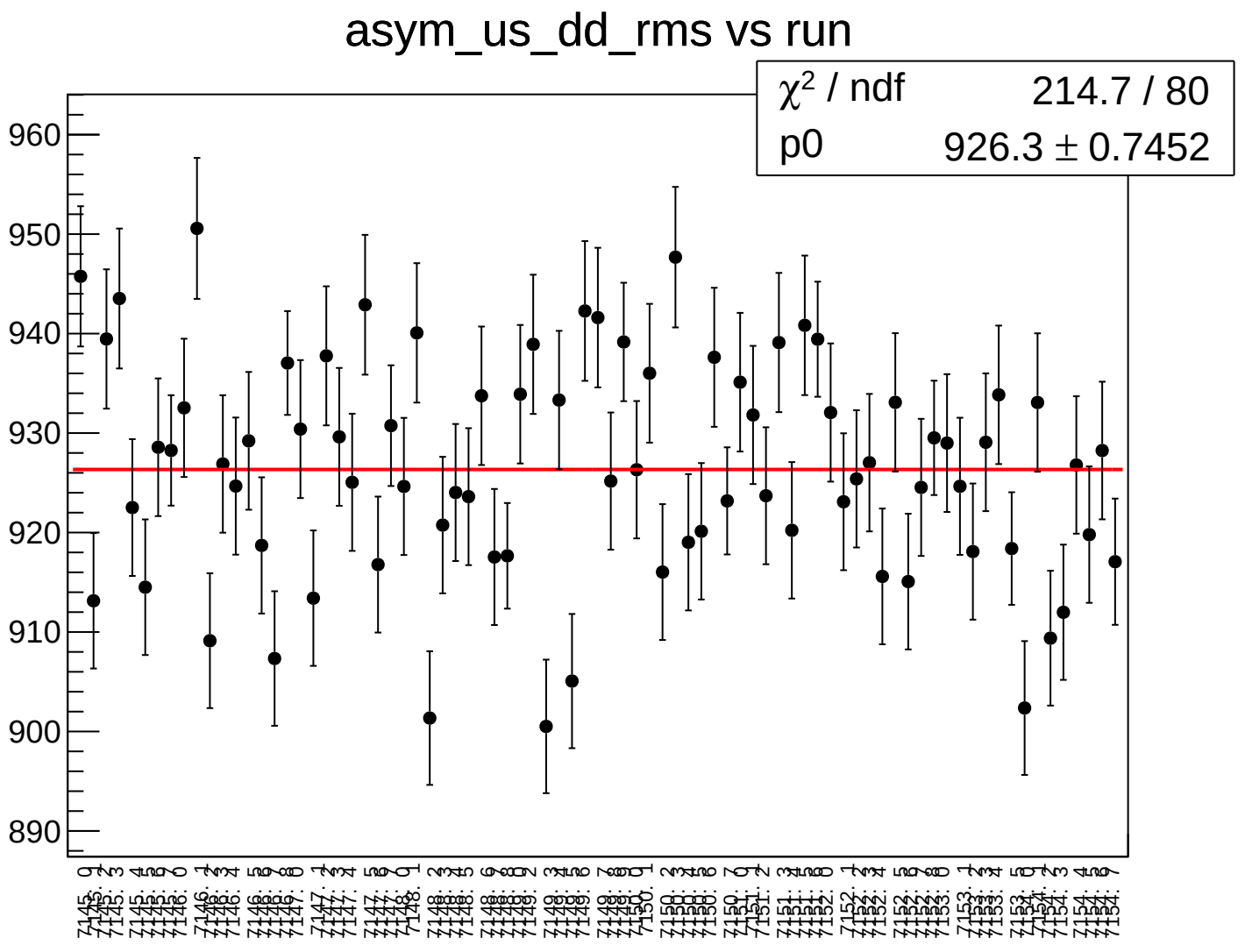

reg_asym_us_dd_rms vs run
χ² / ndf 54.7 / 80
p0 781.3 ± 0.6284
800
795
790
785
780
775
770
765
760

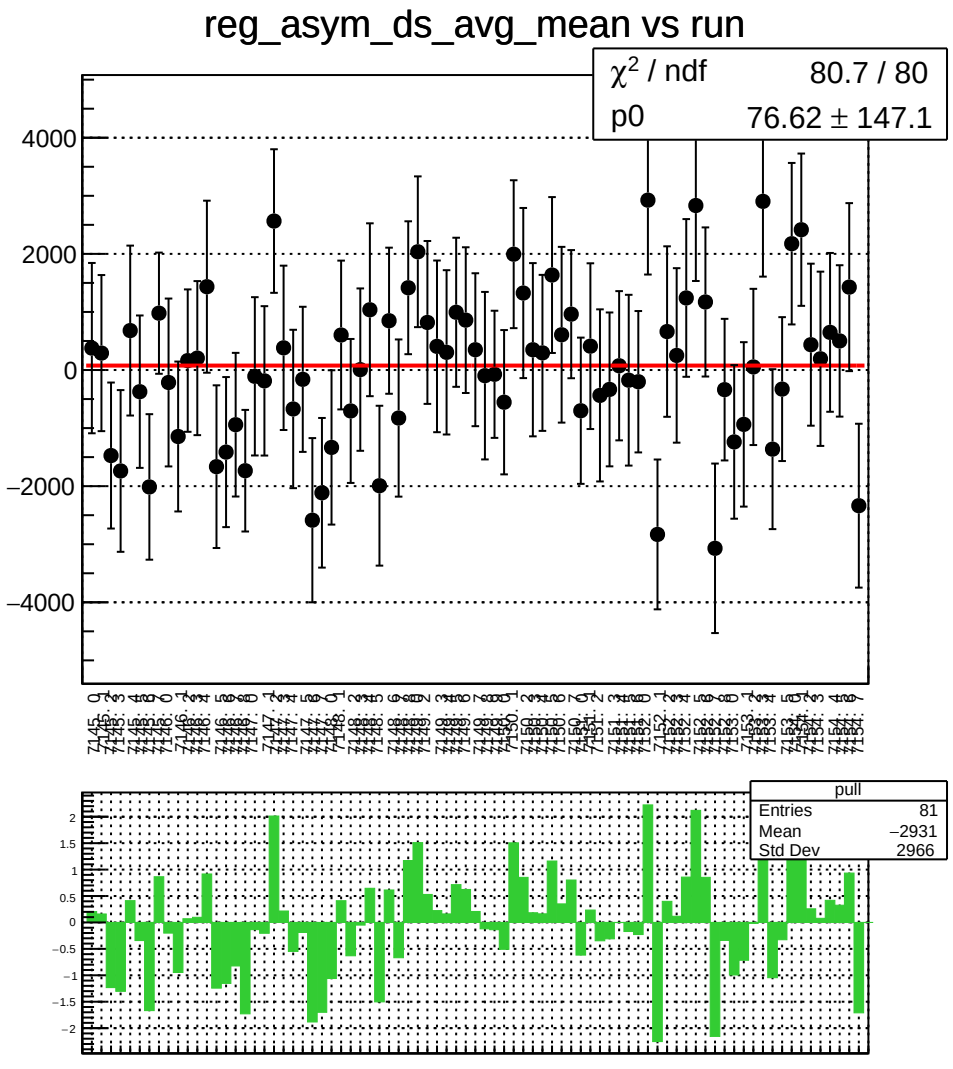

asym_us_dd_correction_mean vs run
χ² / ndf 87.58 / 80
p0 −1582 ± 564.9
pull
Entries 81
Mean 1690
Std Dev 1651
pull1D
Entries 81
Mean 0.001944
Std Dev 1.04

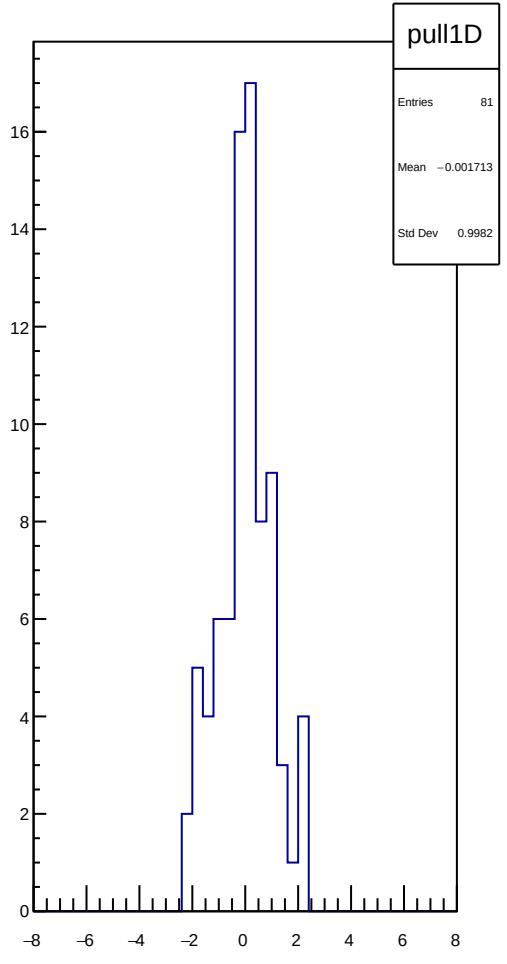

asym_us_dd_correction_rms vs run
χ² / ndf 2421 / 80
p0 496.2 ± 0.3995
540
520
500
480
460
440

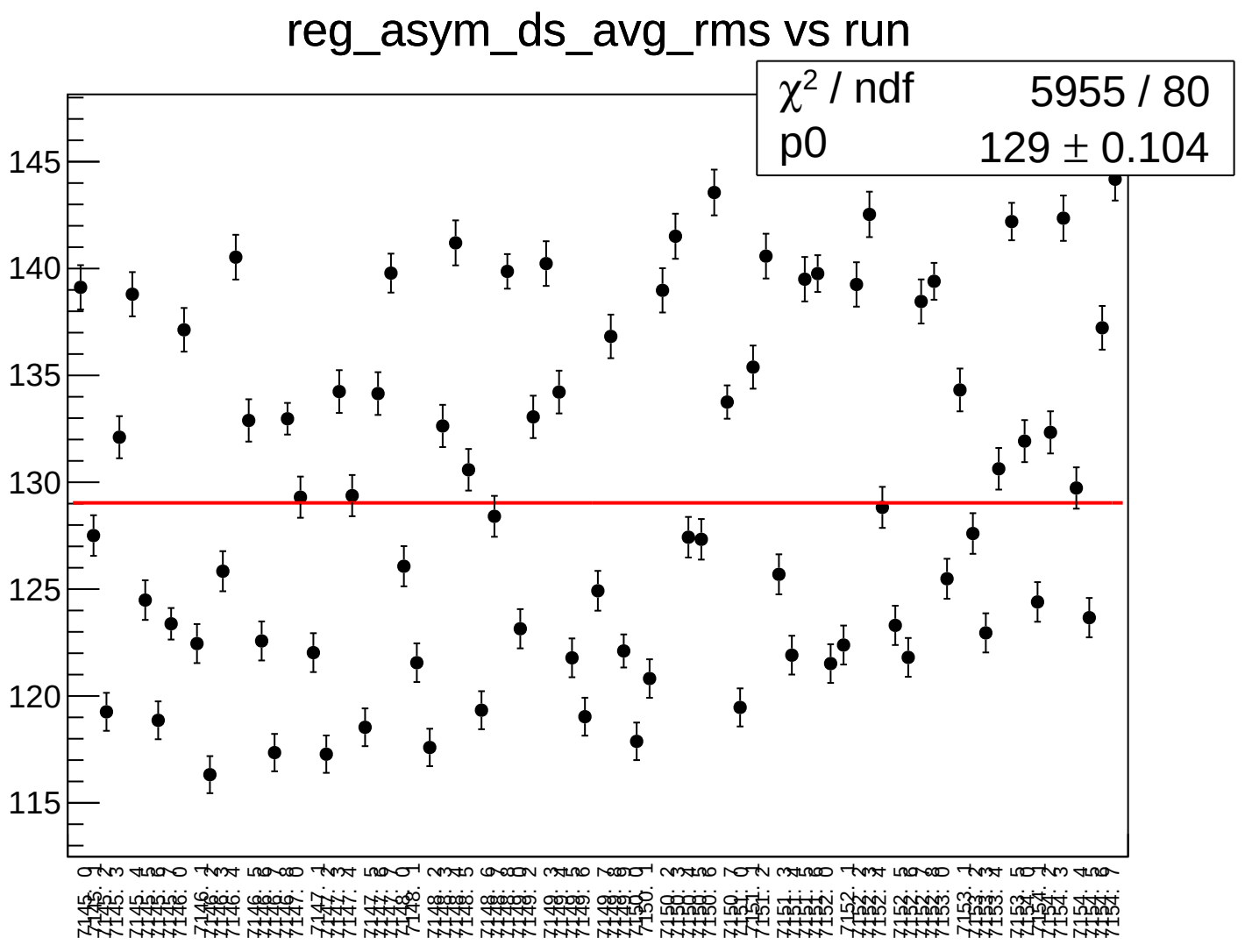

asym_us_dd_mean vs run
χ² / ndf 75.63 / 80
p0 1648 ± 1054
pull
Entries 81
Mean 386.5
Std Dev 338.1

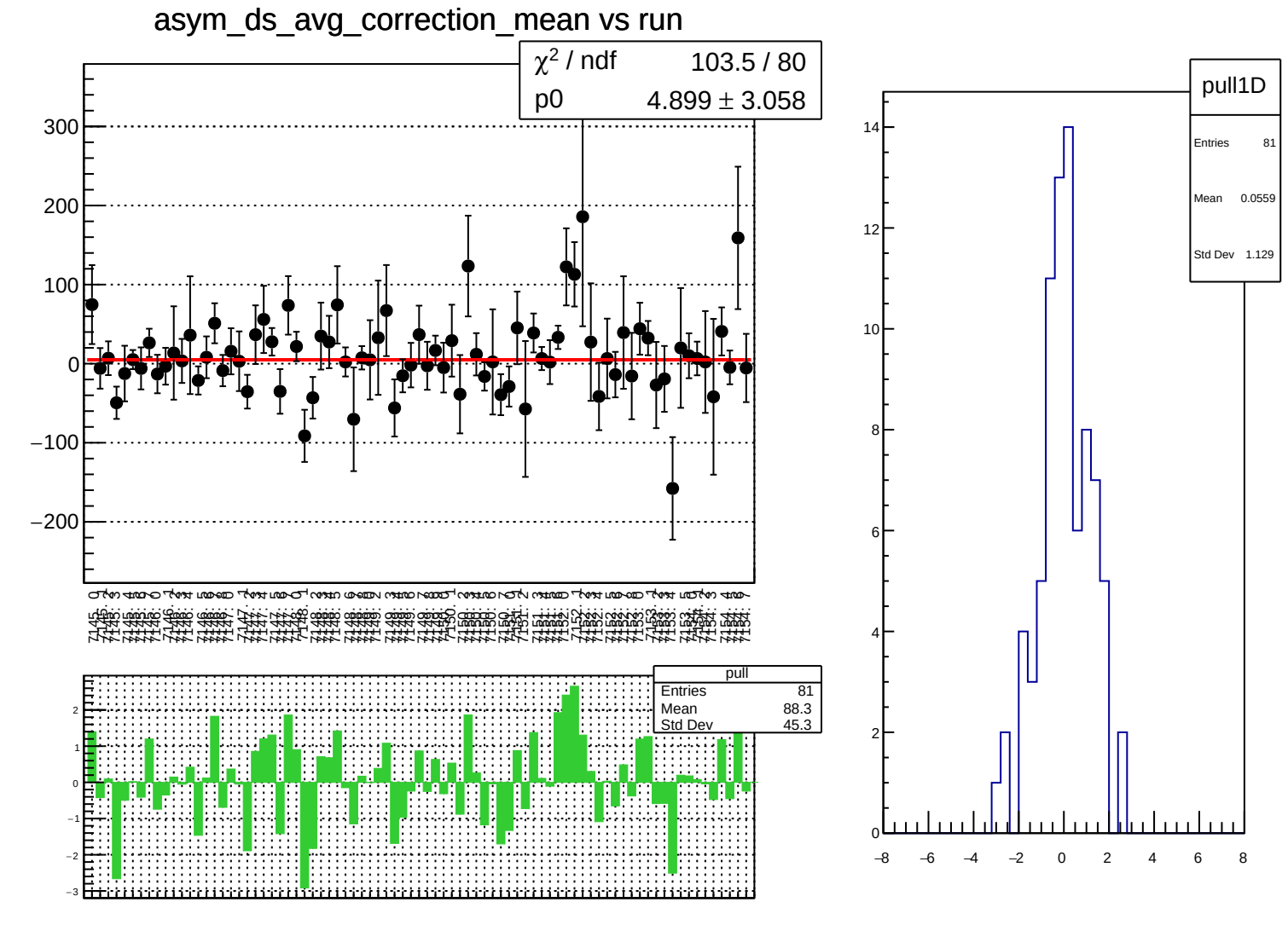

pull1D
Entries 81
Mean −0.005571
Std Dev 0.9663

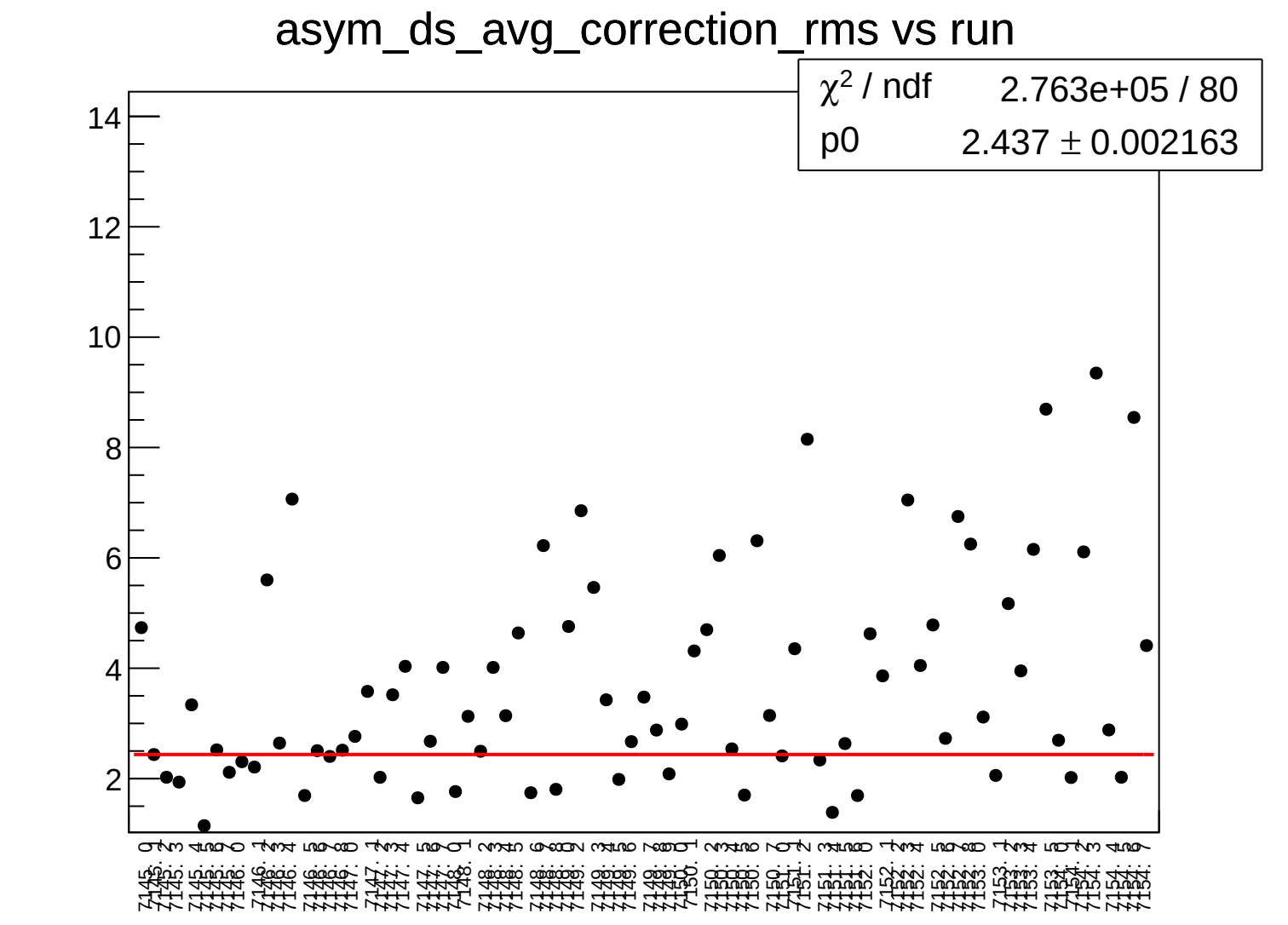

asym_us_dd_rms vs run
χ² / ndf 214.7 / 80
p0 926.3 ± 0.7452
960
950
940
930
920
910
900
890

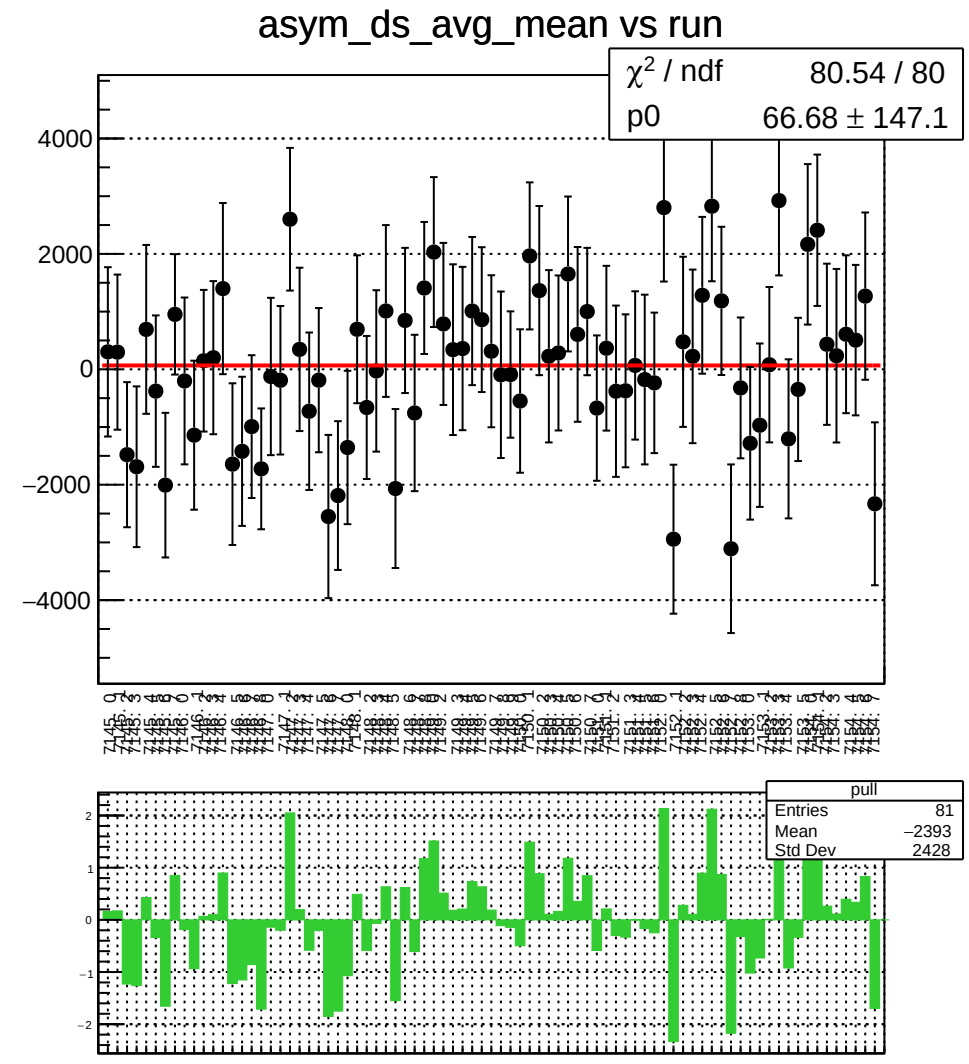

reg_asym_ds_avg_mean vs run
χ² / ndf 80.7 / 80
p0 76.62 ± 147.1
4000
2000
0
−2000
−4000
pull
Entries 81
Mean −2931
Std Dev 2966
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

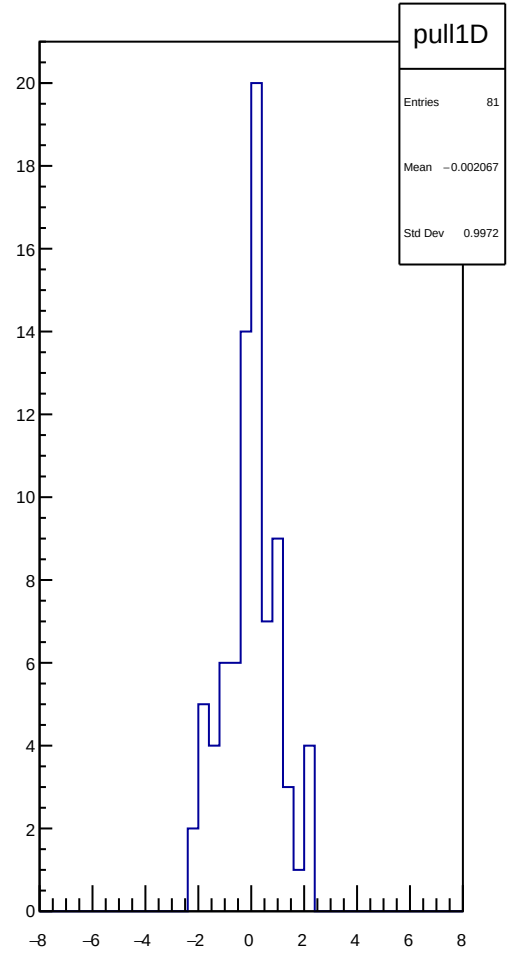

pull1D
Entries 81
Mean −0.001713
Std Dev 0.9982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

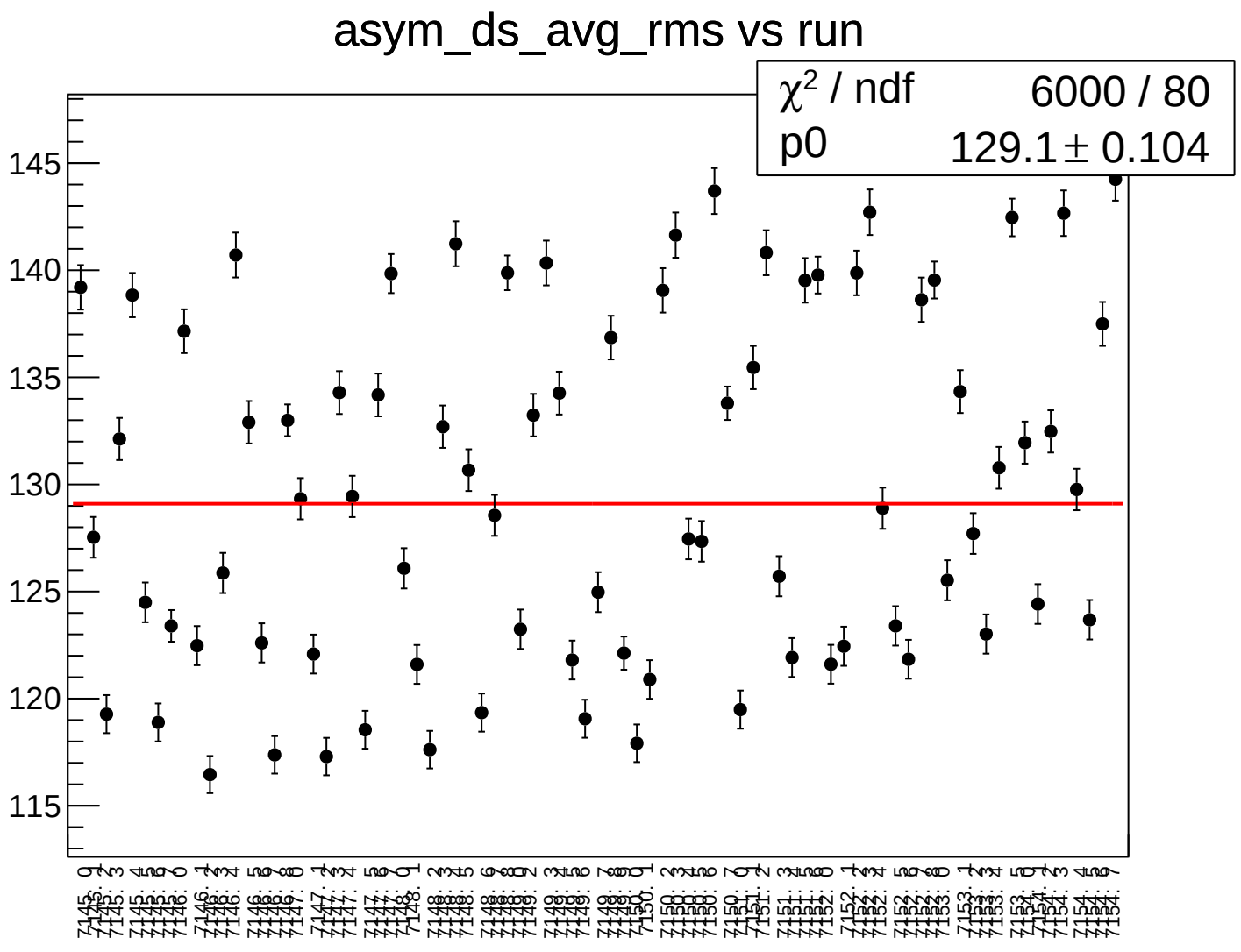

reg_asym_ds_avg_rms vs run
χ^2 / ndf 5955 / 80
p0 129 ± 0.104
145
140
135
130
125
120
115

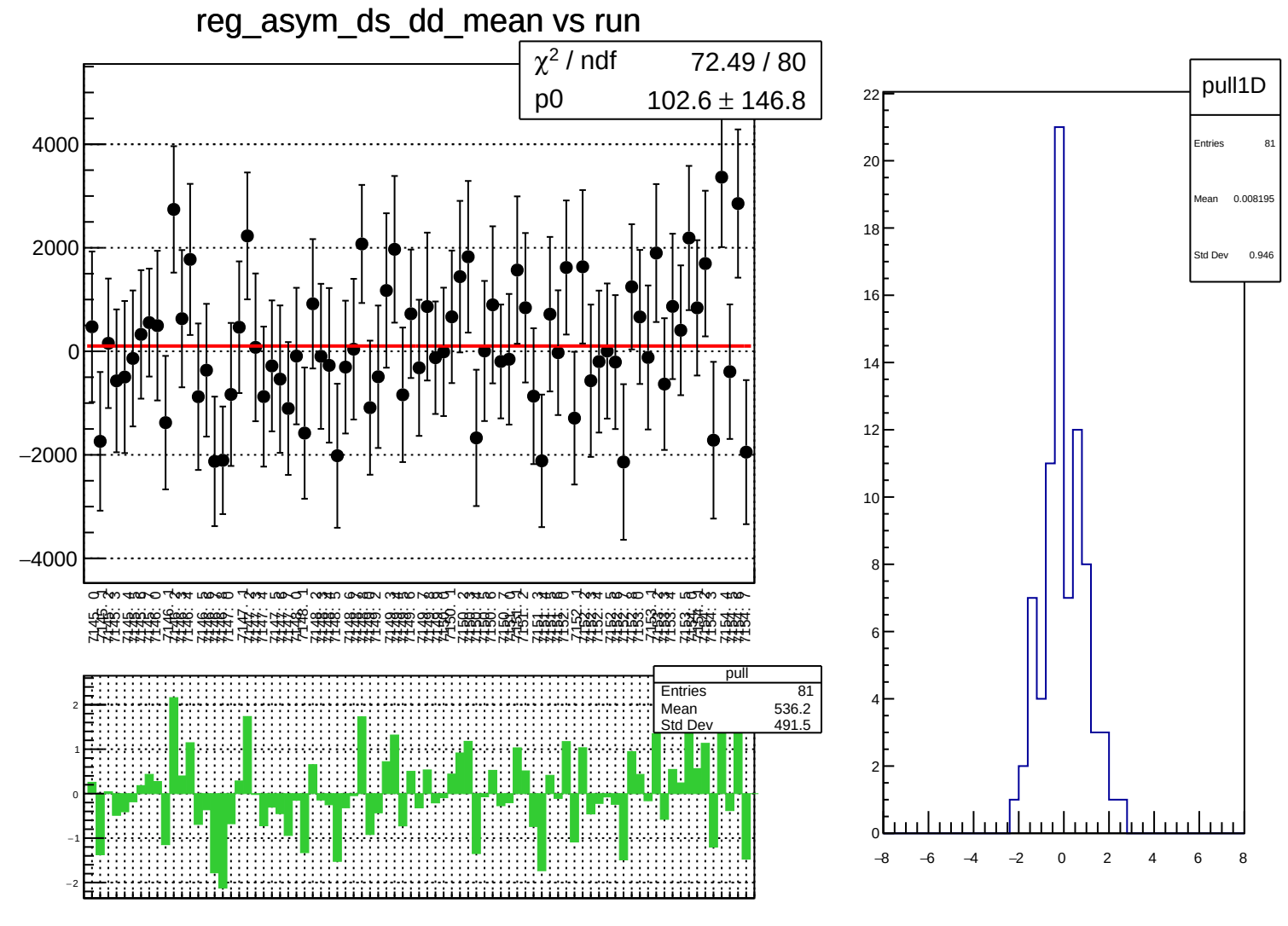

asym_ds_avg_correction_mean vs run
χ² / ndf 103.5 / 80
p0 4.899 ± 3.058
pull
Entries 81
Mean 88.3
Std Dev 45.3
pull1D
Entries 81
Mean 0.0559
Std Dev 1.129

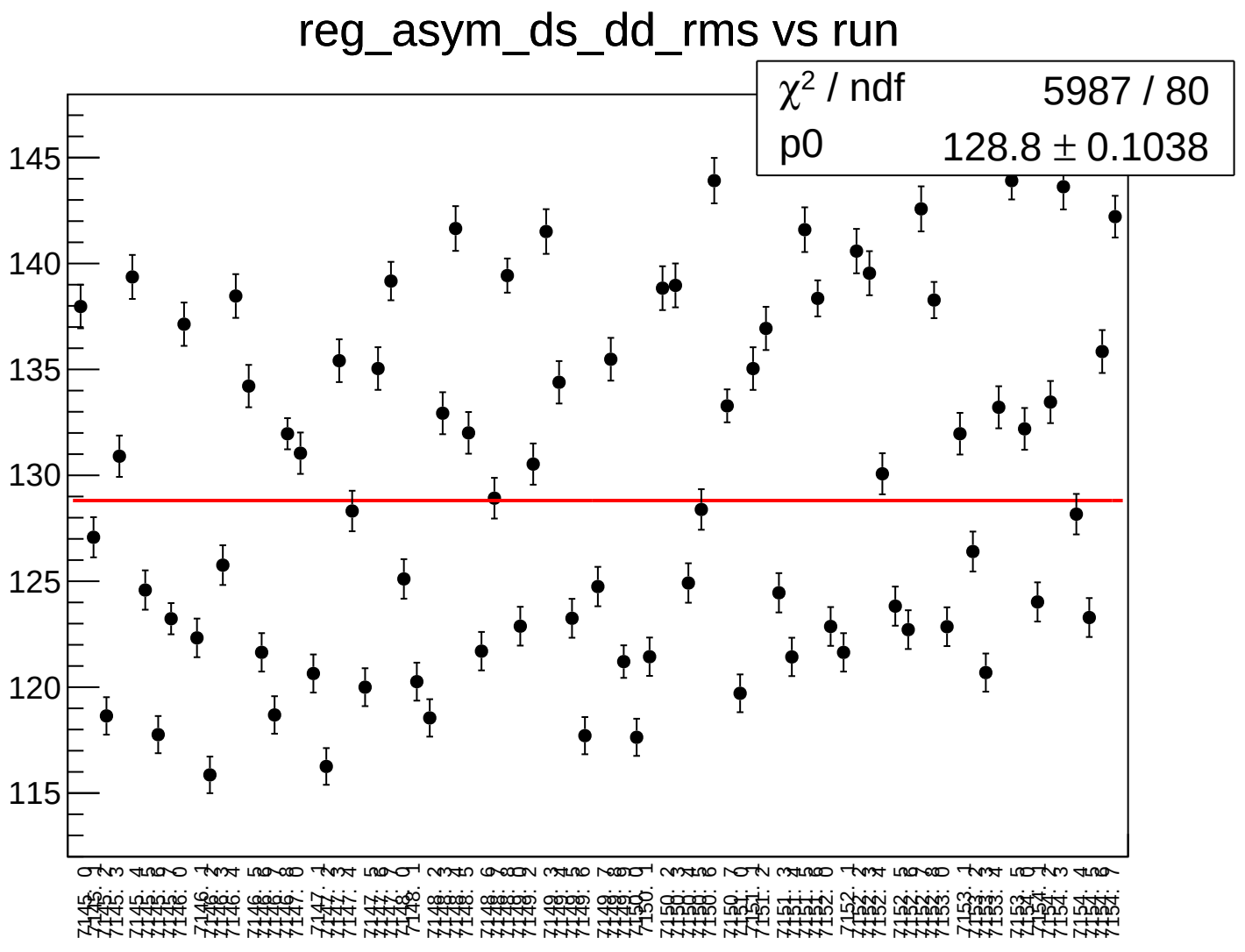

asym_ds_avg_correction_rms vs run
χ^2 / ndf 2.763e+05 / 80
p0 2.437 ± 0.002163
14
12
10
8
6
4
2

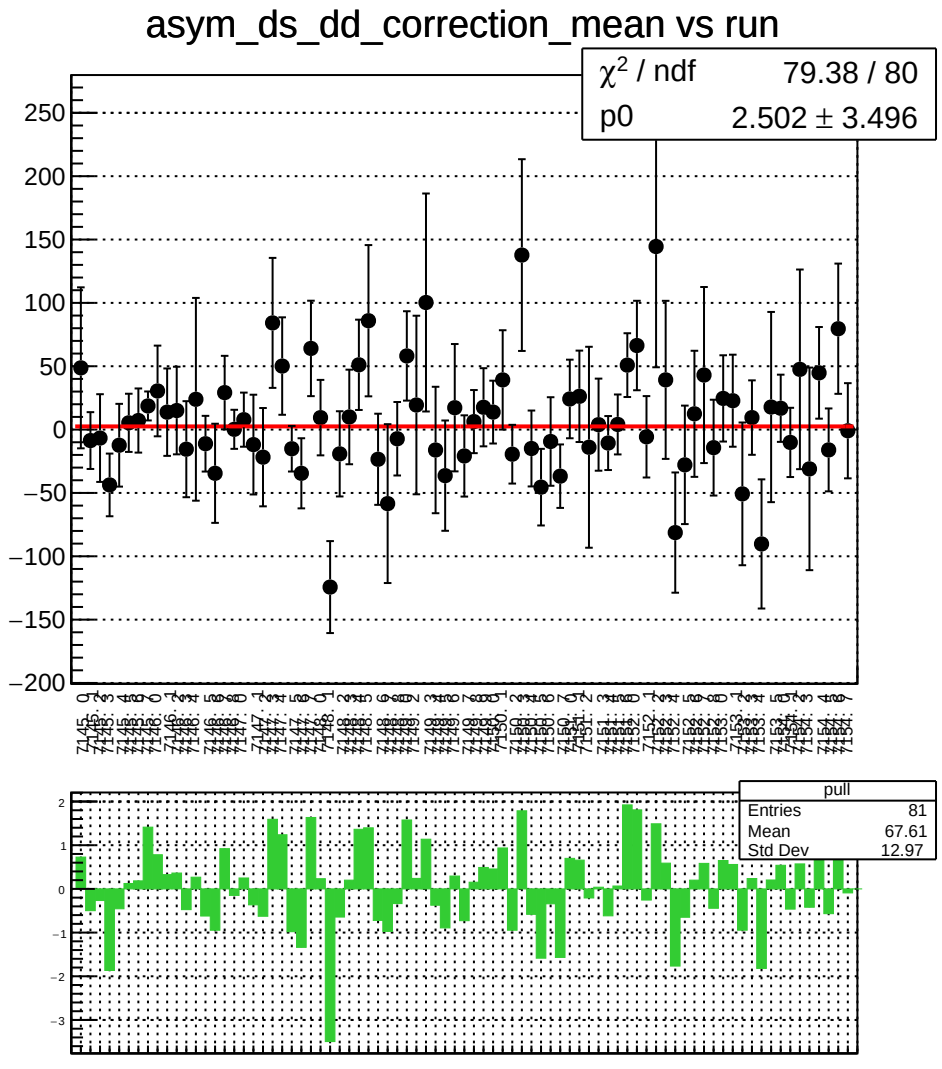

asym_ds_avg_mean vs run
χ^2 / ndf 80.54 / 80
p0 66.68 ± 147.1
4000
2000
0
−2000
−4000
pull
Entries 81
Mean −2393
Std Dev 2428
2
1
0
−1
−2

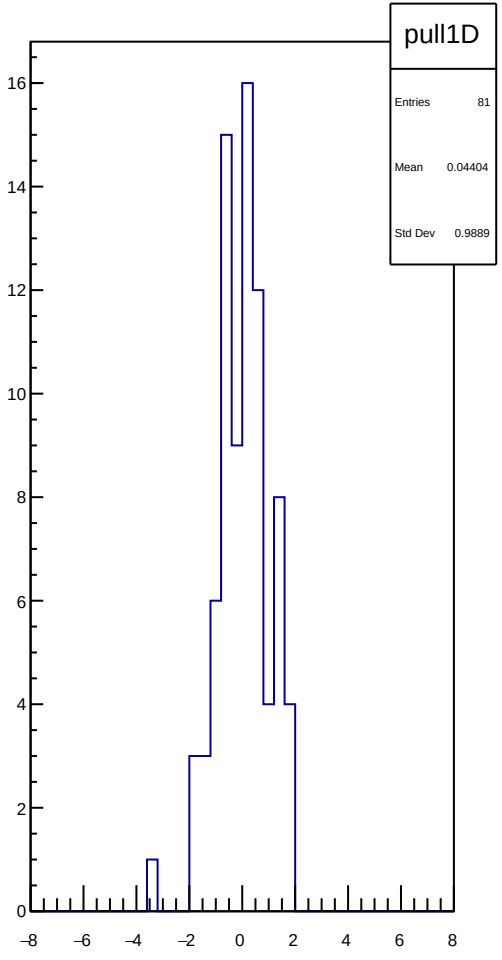

pull1D
Entries 81
Mean −0.002067
Std Dev 0.9972
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

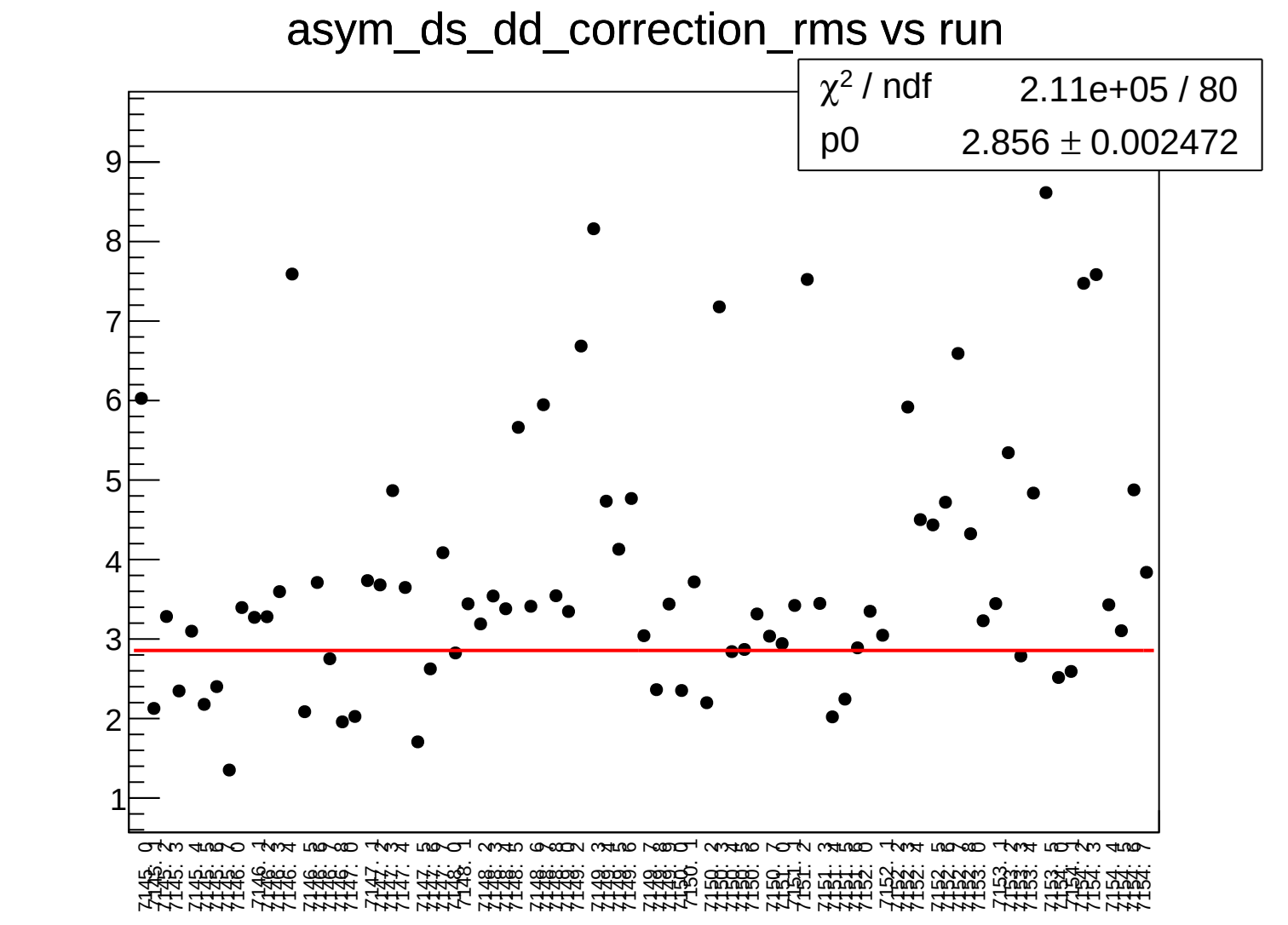

asym_ds_avg_rms vs run
χ^2 / ndf 6000 / 80
p0 129.1 ± 0.104
145
140
135
130
125
120
115

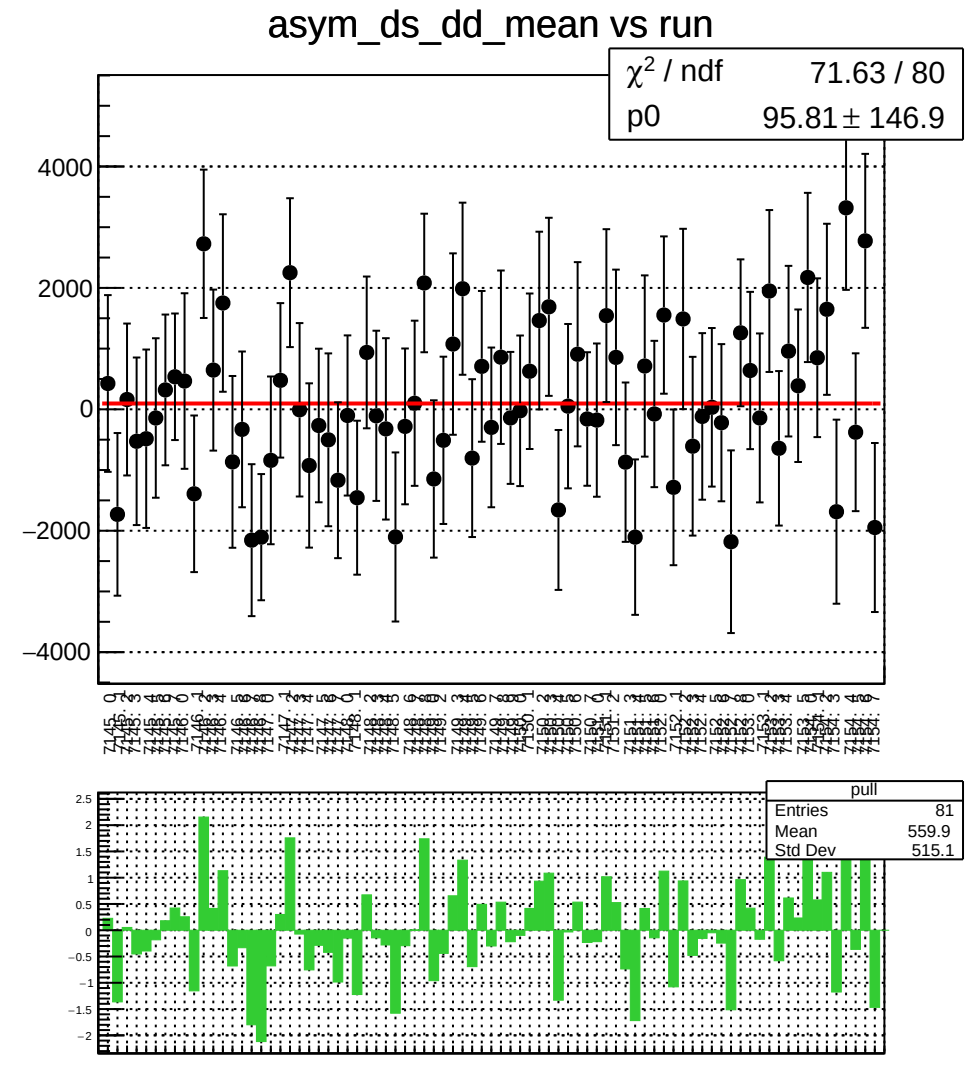

reg_asym_ds_dd_mean vs run
χ² / ndf 72.49 / 80
p0 102.6 ± 146.8
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 536.2
Std Dev 491.5
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.008195
Std Dev 0.946
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

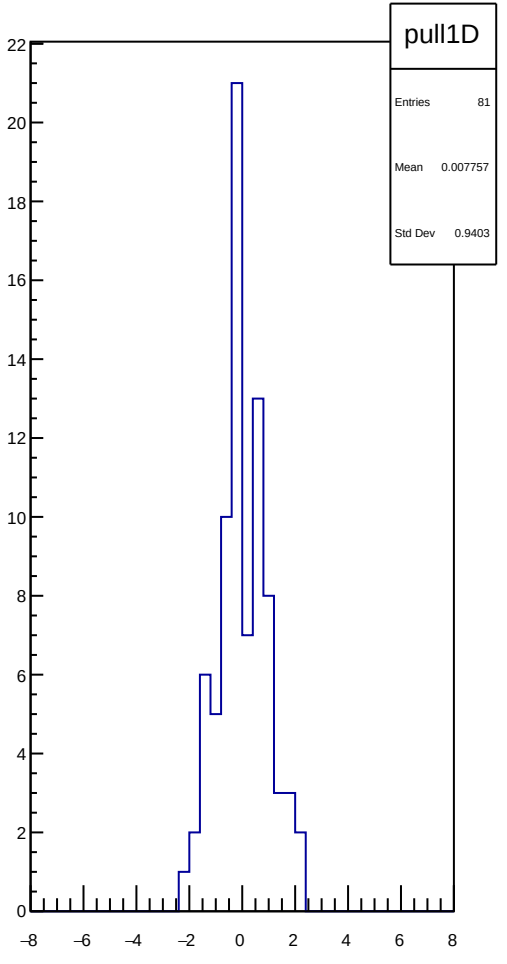

reg_asym_ds_dd_rms vs run
χ² / ndf 5987 / 80
p0 128.8 ± 0.1038
145
140
135
130
125
120
115

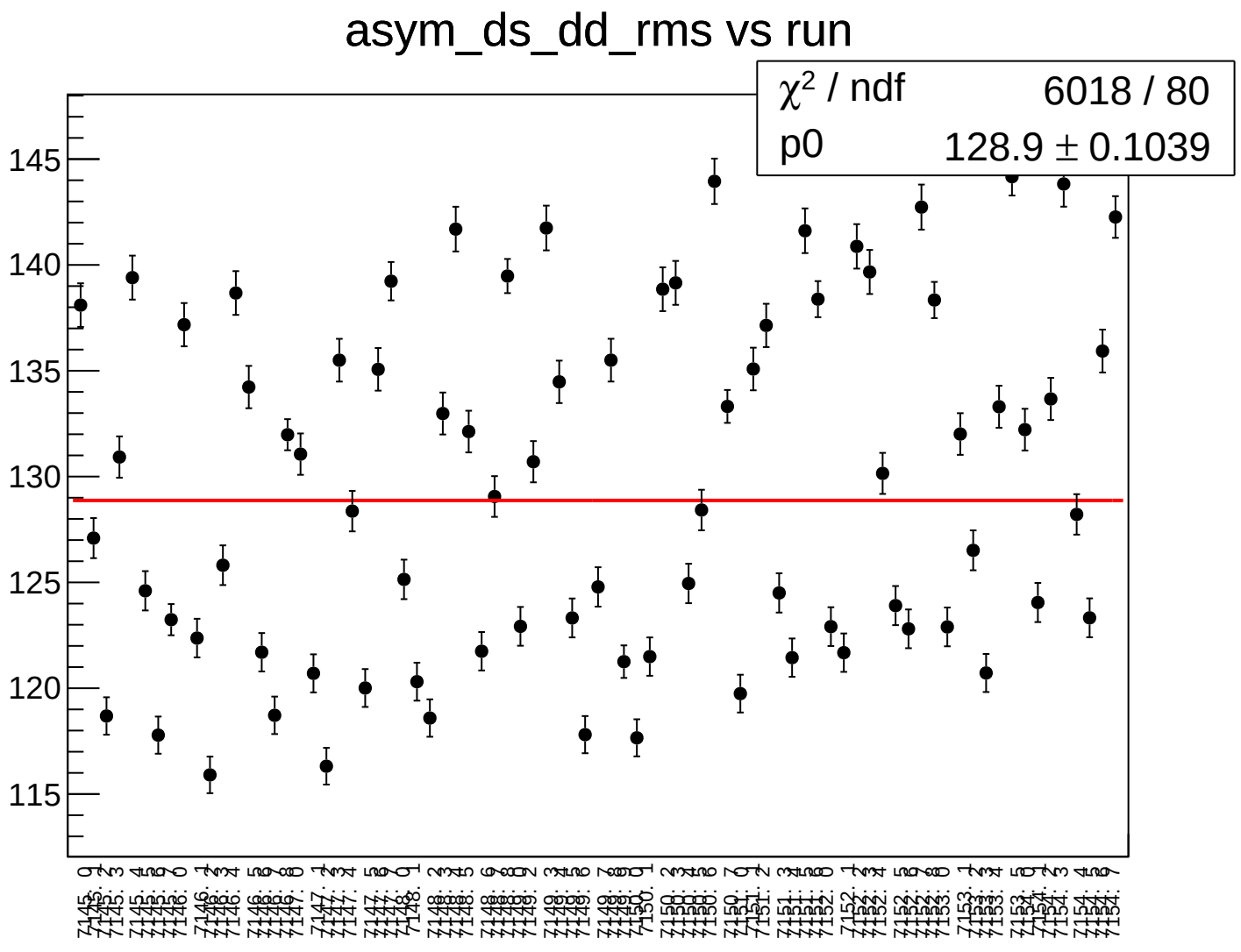

asym_ds_dd_correction_mean vs run
χ² / ndf 79.38 / 80
p0 2.502 ± 3.496
pull
Entries 81
Mean 67.61
Std Dev 12.97

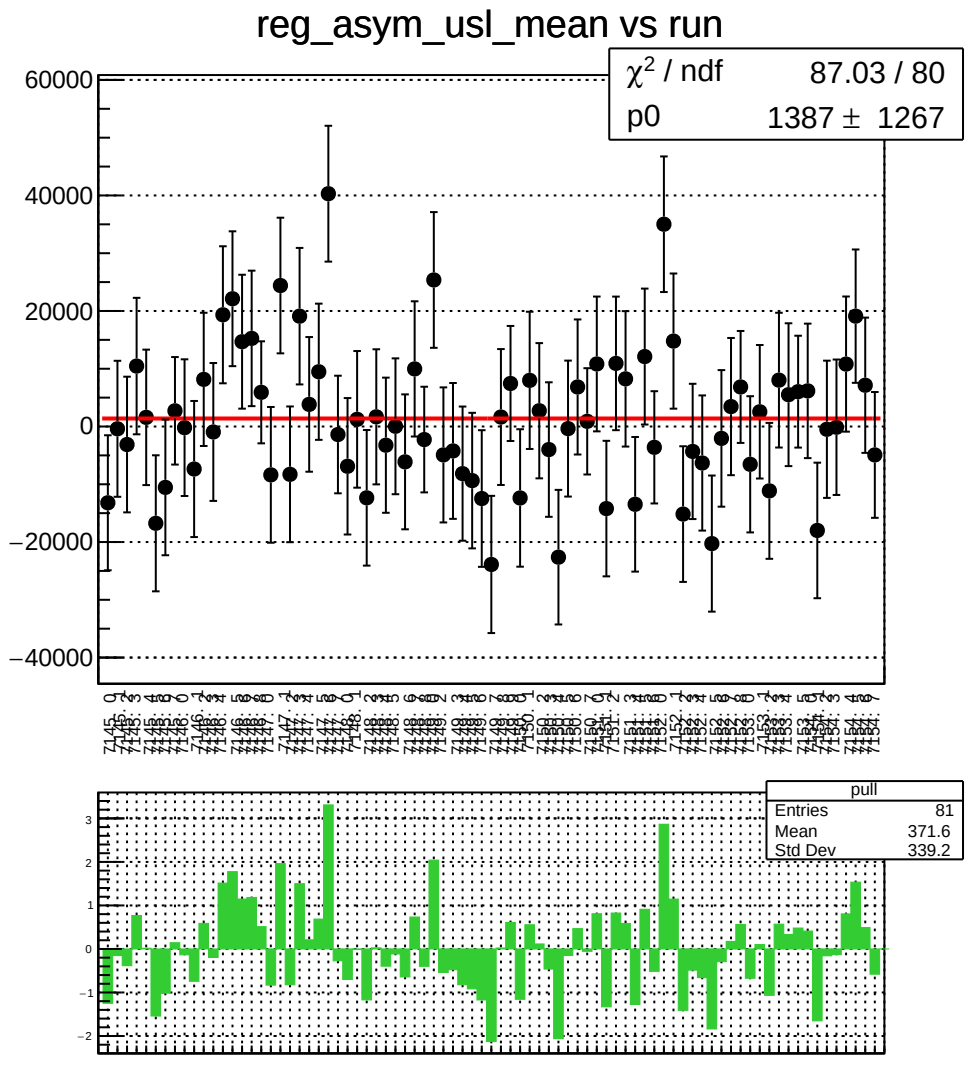

pull1D
Entries 81
Mean 0.04404
Std Dev 0.9889

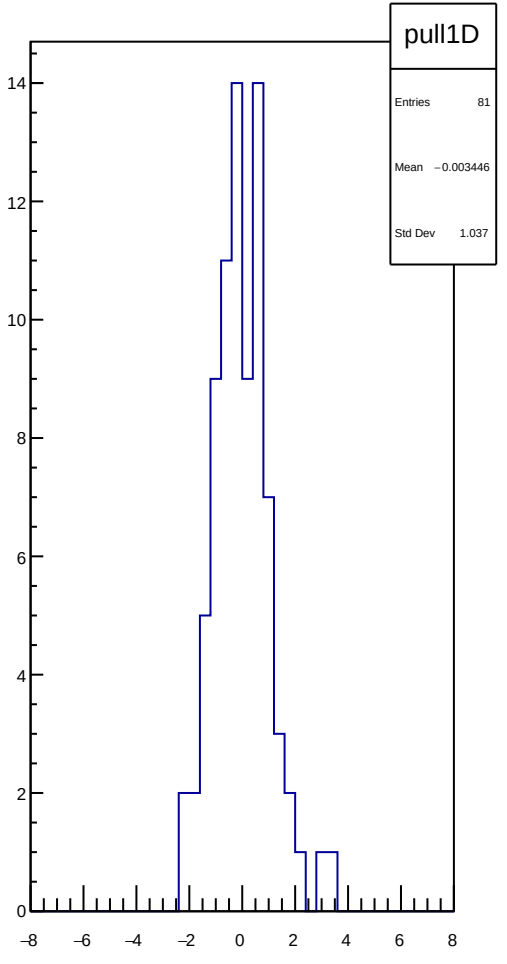

asym_ds_dd_correction_rms vs run
χ^2 / ndf 2.11e+05 / 80
p0 2.856 ± 0.002472
9
8
7
6
5
4
3
2
1

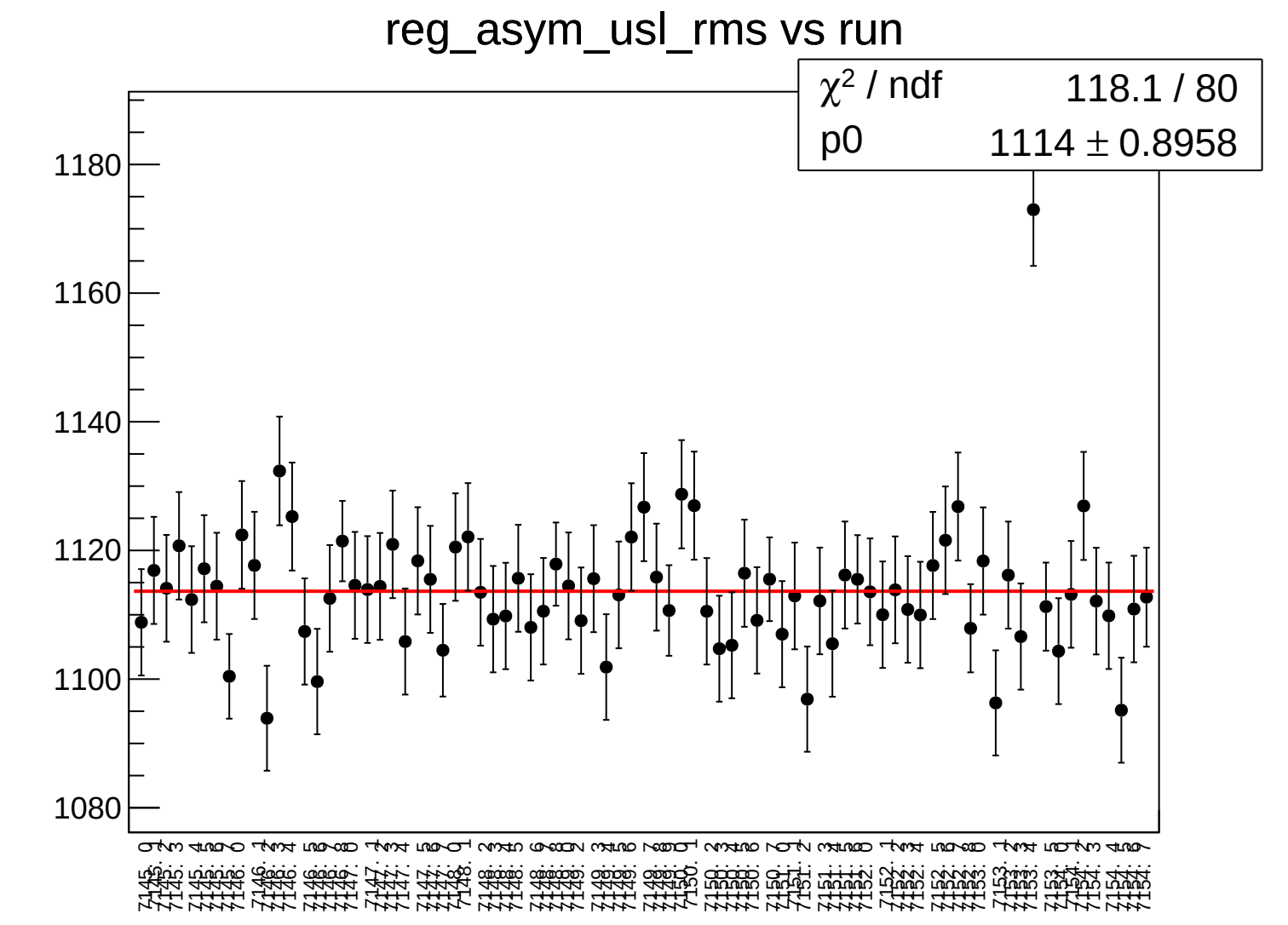

asym_ds_dd_mean vs run
χ² / ndf 71.63 / 80
p0 95.81 ± 146.9
pull
Entries 81
Mean 559.9
Std Dev 515.1

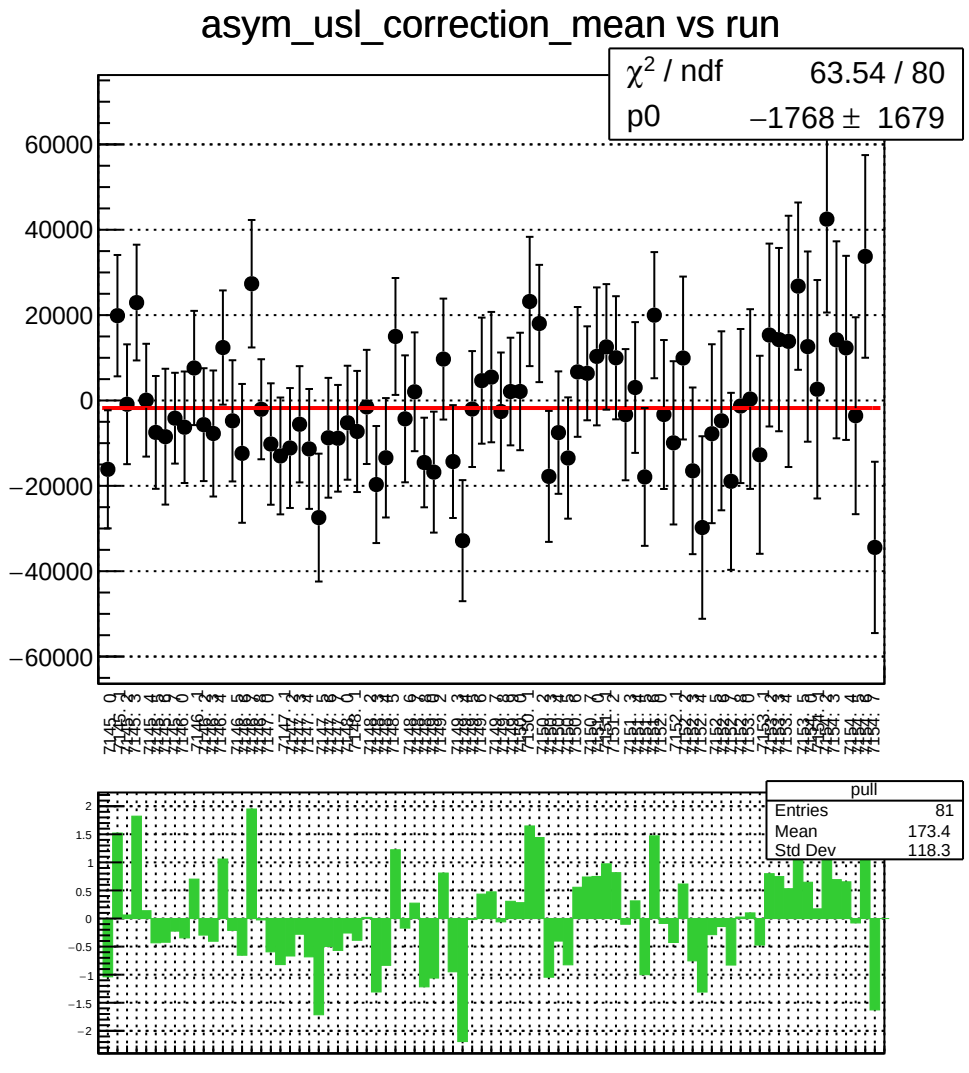

pull1D
Entries 81
Mean 0.007757
Std Dev 0.9403

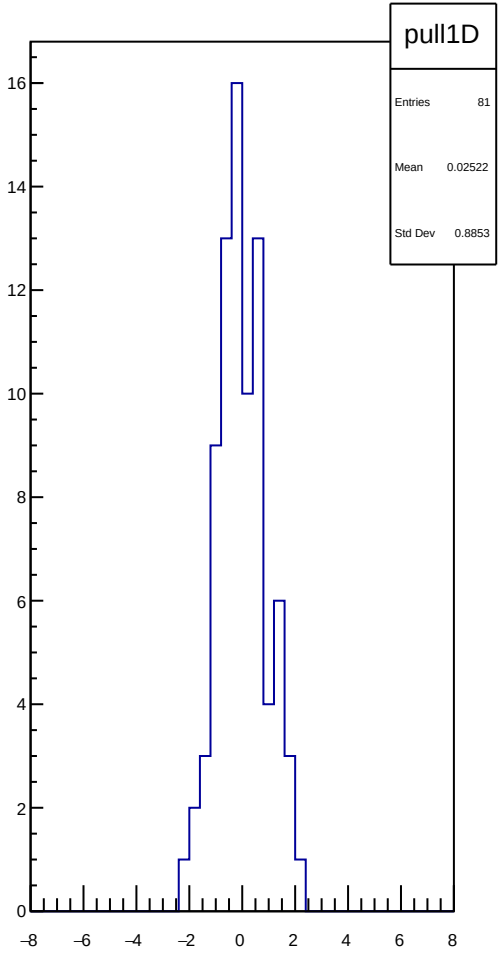

asym_ds_dd_rms vs run
χ² / ndf 6018 / 80
p0 128.9 ± 0.1039
145
140
135
130
125
120
115

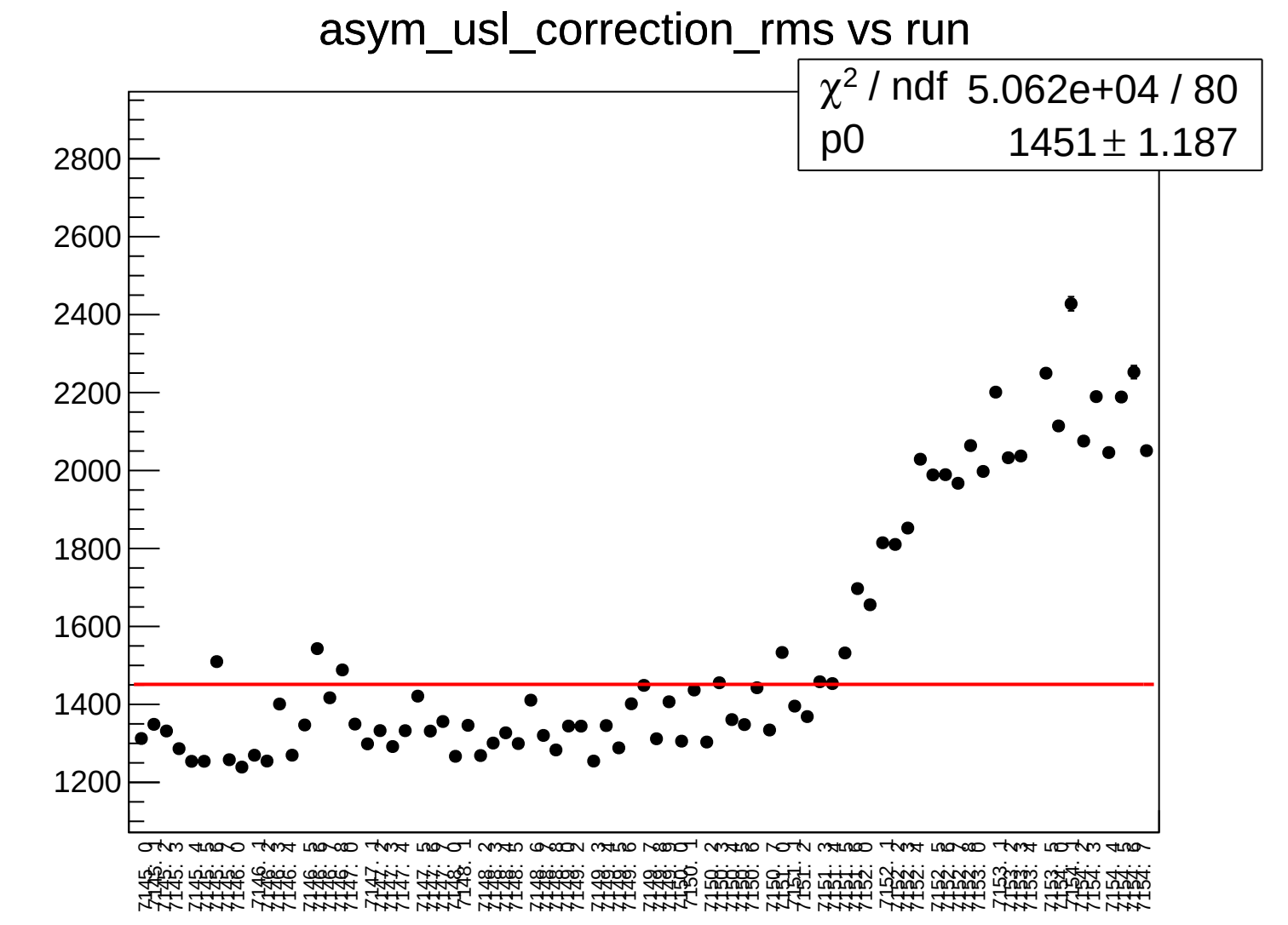

reg_asym_usl_mean vs run
χ² / ndf 87.03 / 80
p0 1387 ± 1267
pull
Entries 81
Mean 371.6
Std Dev 339.2

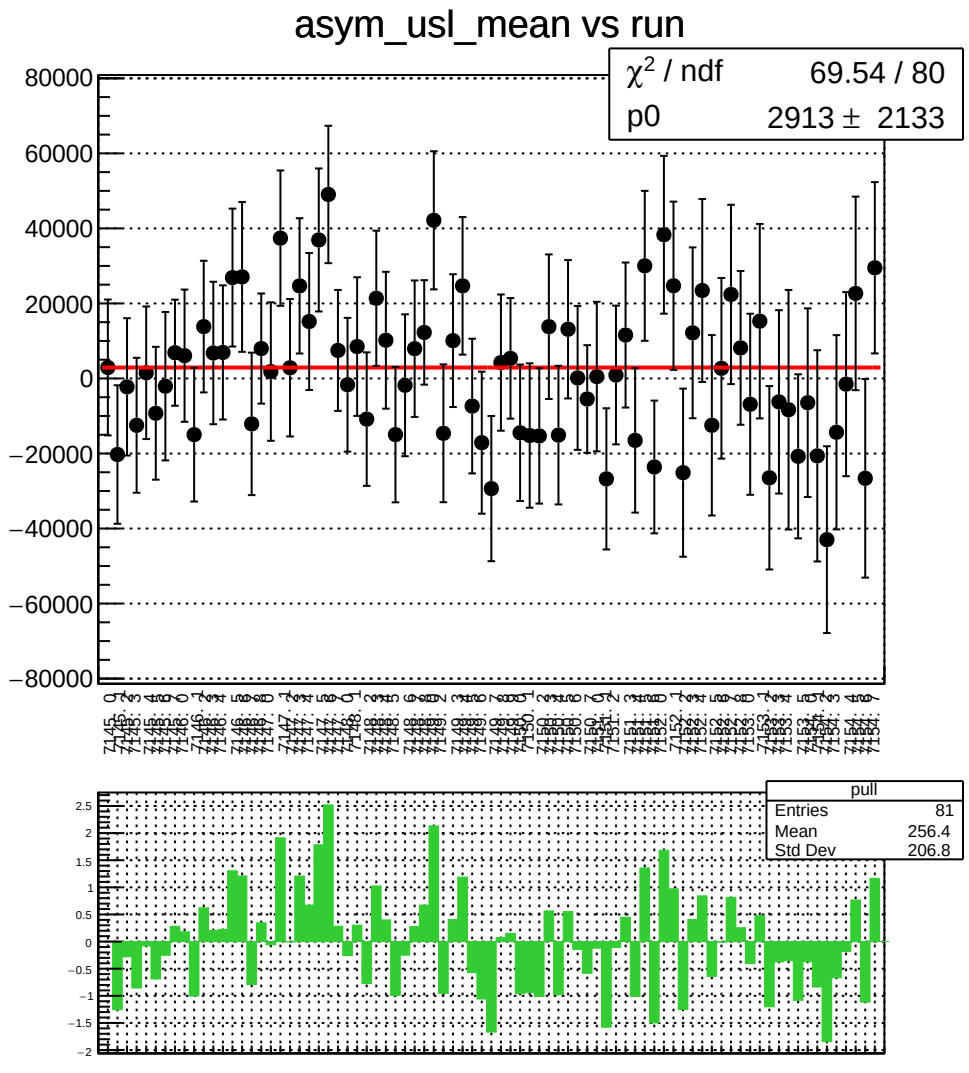

pull1D
Entries 81
Mean −0.003446
Std Dev 1.037

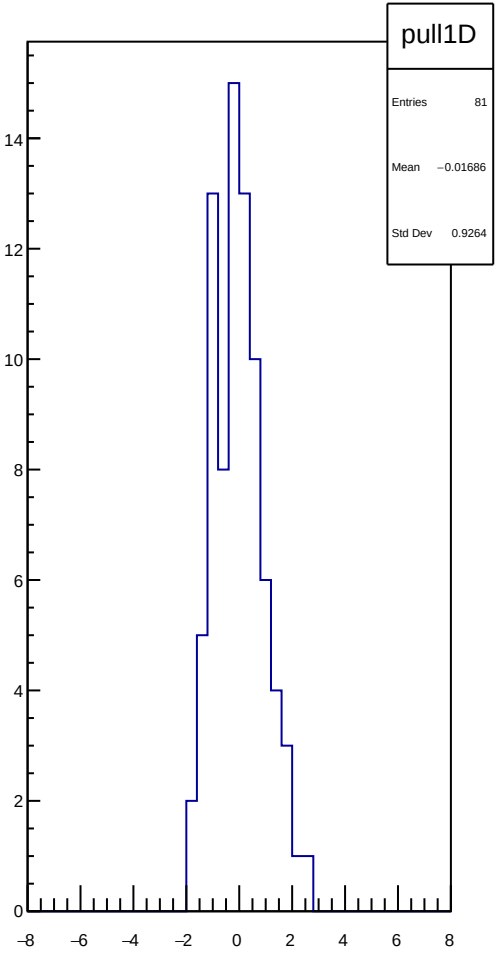

reg_asym_usl_rms vs run
χ² / ndf 118.1 / 80
p0 1114 ± 0.8958
1180
1160
1140
1120
1100
1080

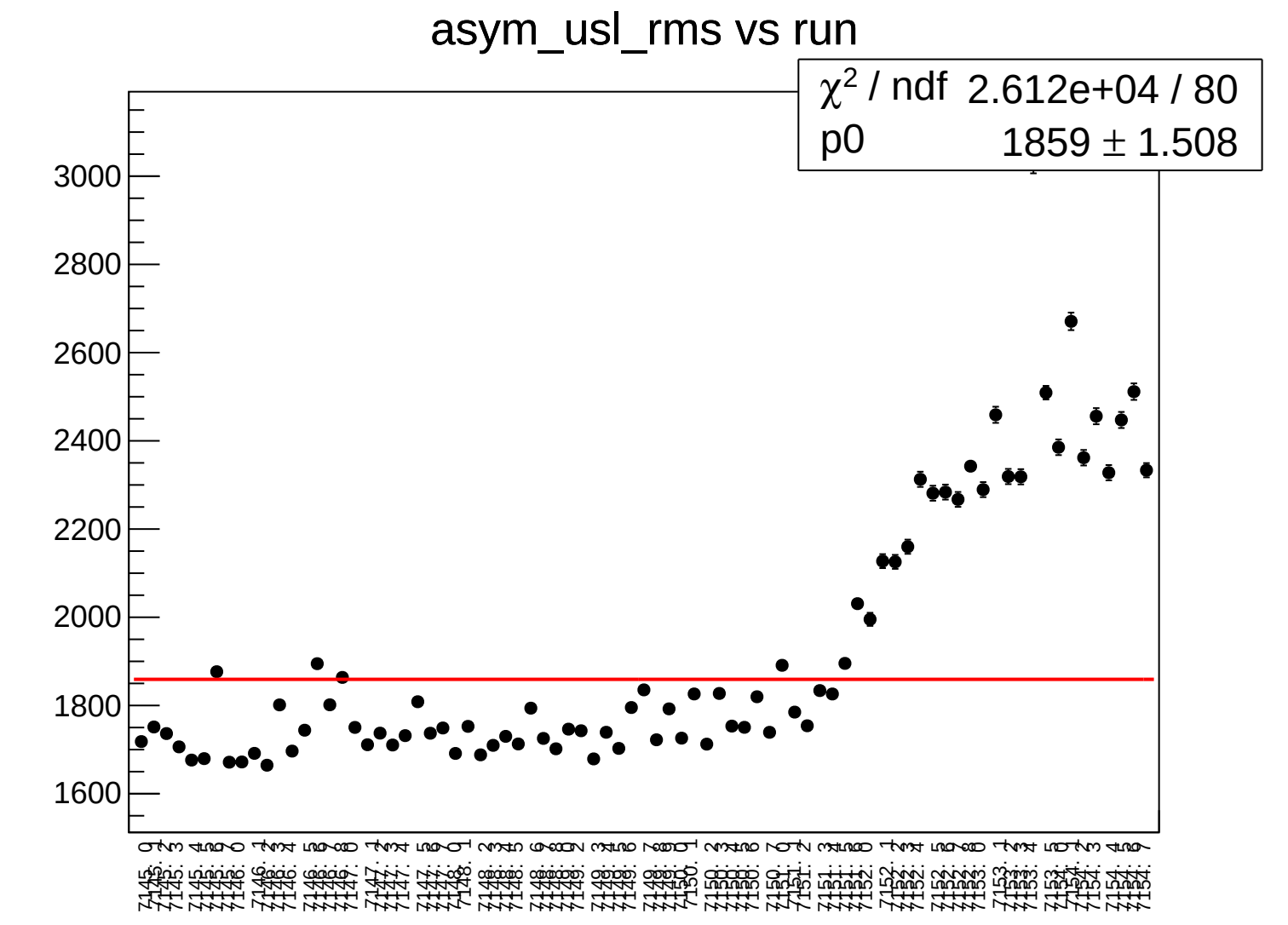

asym_usl_correction_mean vs run
χ² / ndf 63.54 / 80
p0 −1768 ± 1679
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 173.4
Std Dev 118.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

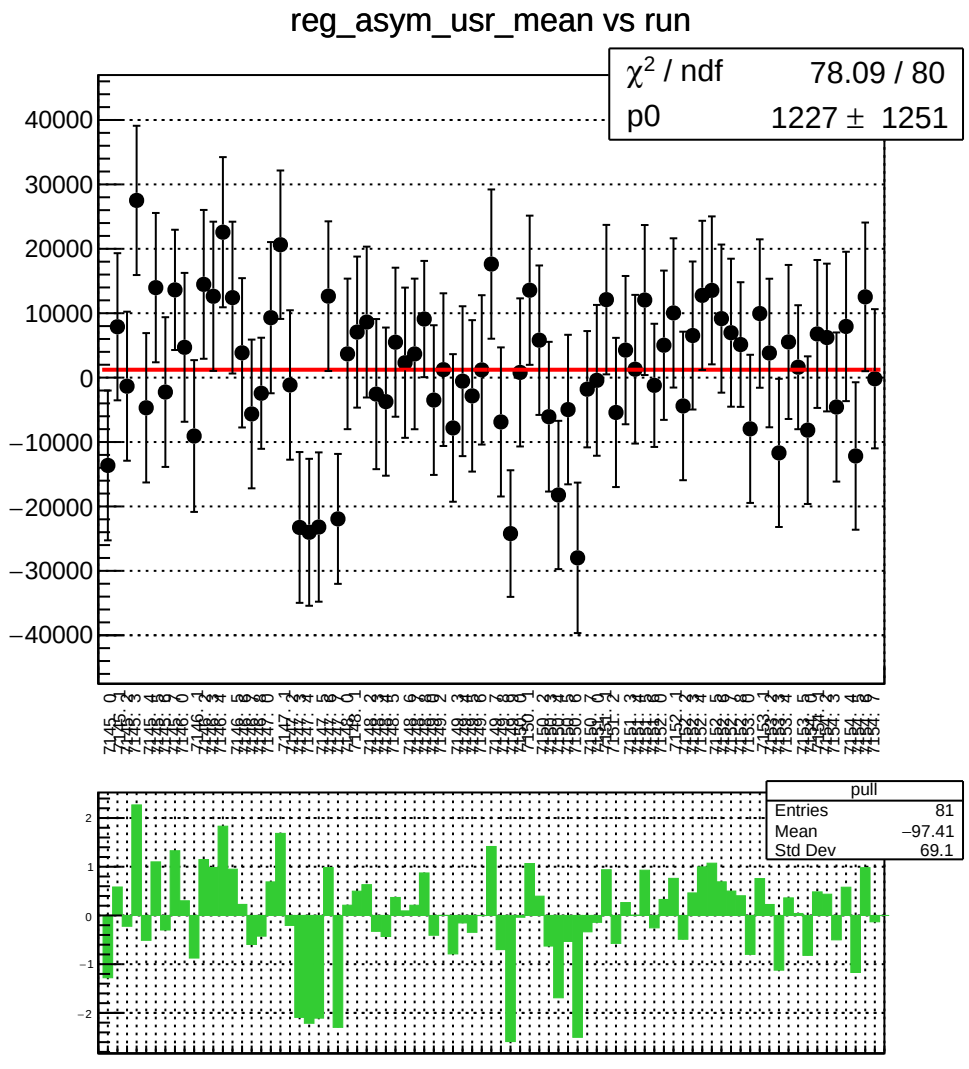

pull1D
Entries 81
Mean 0.02522
Std Dev 0.8853
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

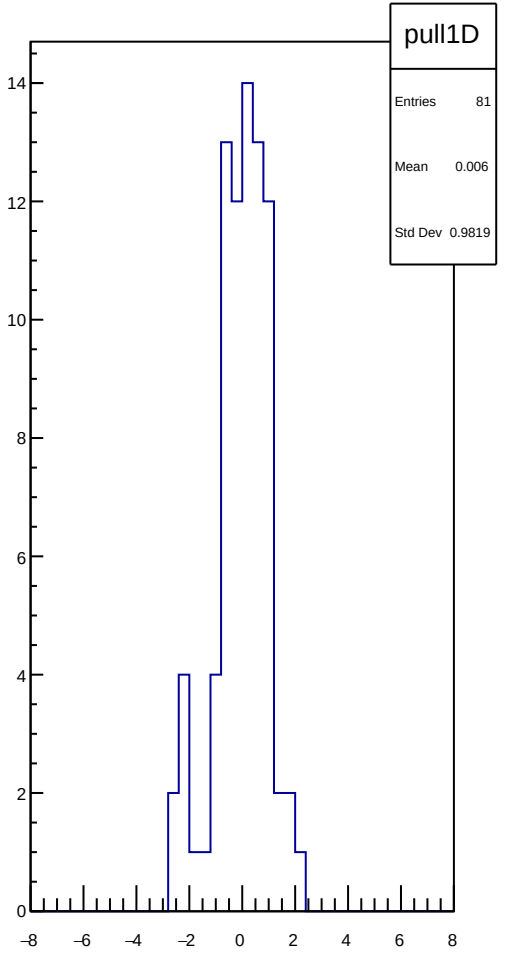

asym_usl_correction_rms vs run
χ² / ndf 5.062e+04 / 80
p0 1451 ± 1.187
2800
2600
2400
2200
2000
1800
1600
1400
1200

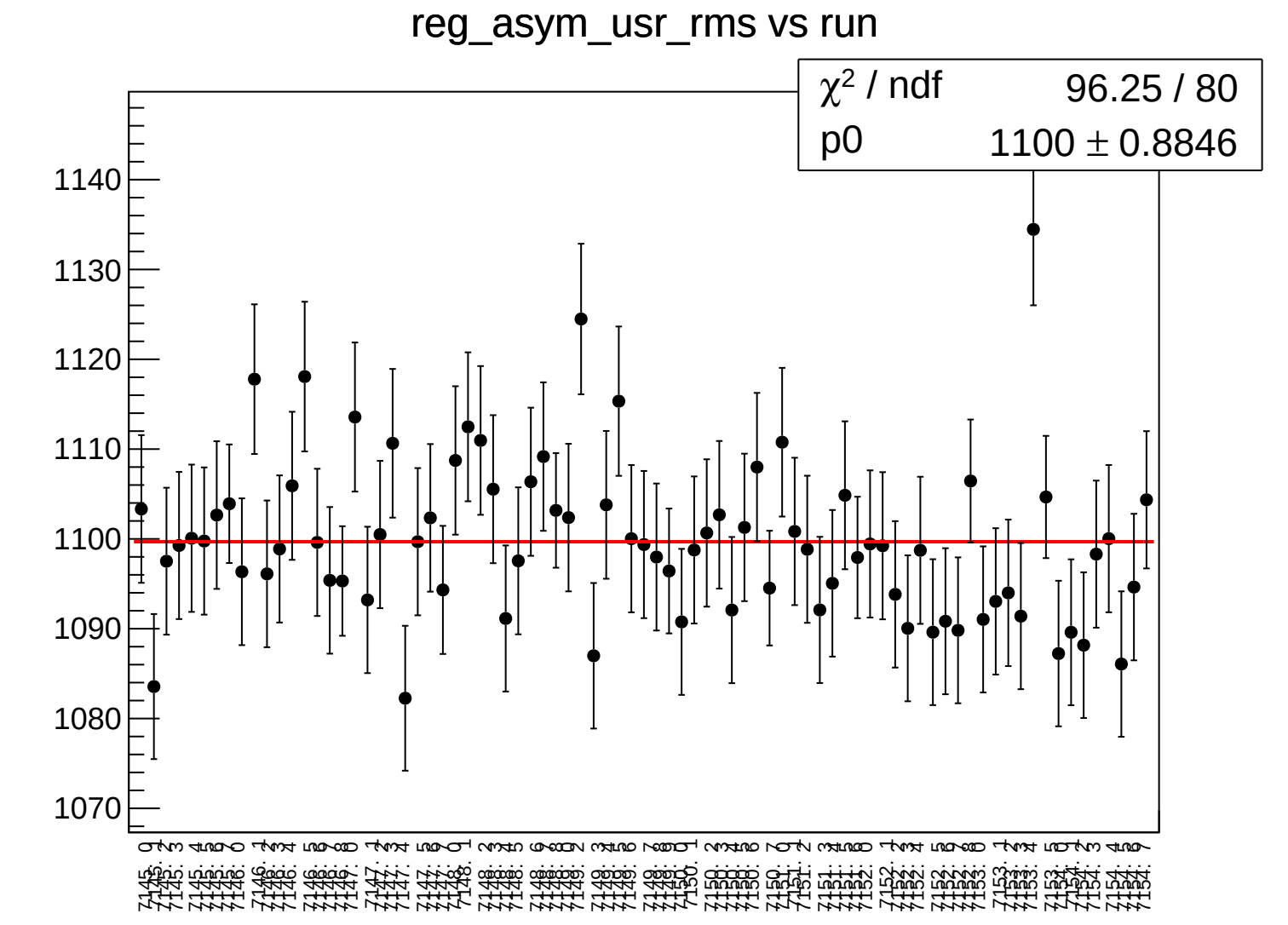

asym_usl_mean vs run
χ² / ndf 69.54 / 80
p0 2913 ± 2133
pull
Entries 81
Mean 256.4
Std Dev 206.8

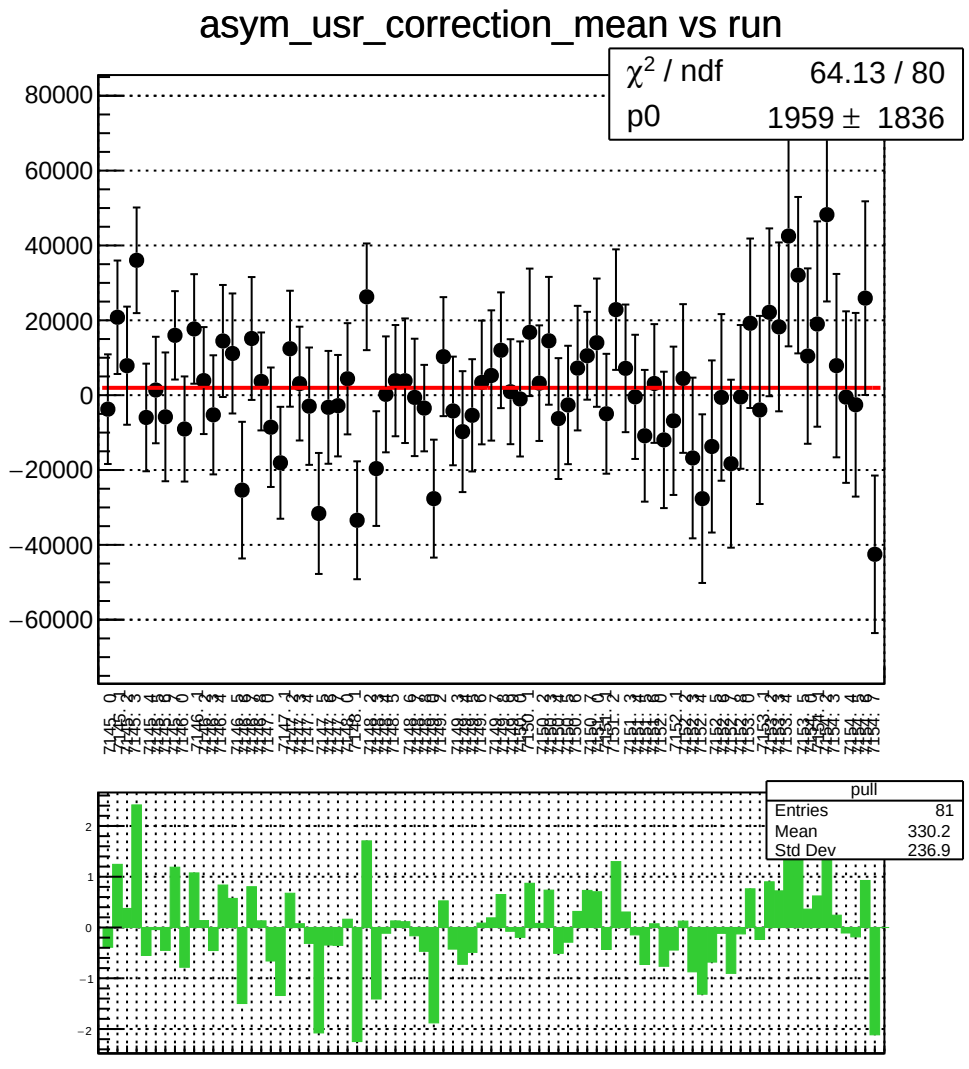

pull1D
Entries 81
Mean −0.01686
Std Dev 0.9264

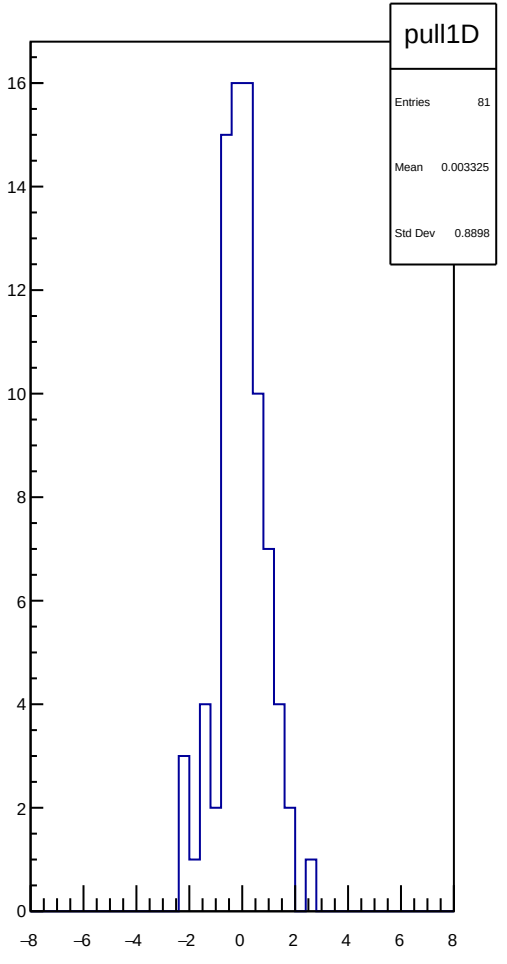

asym_usl_rms vs run
χ^2 / ndf 2.612e+04 / 80
p0 1859 ± 1.508
3000
2800
2600
2400
2200
2000
1800
1600

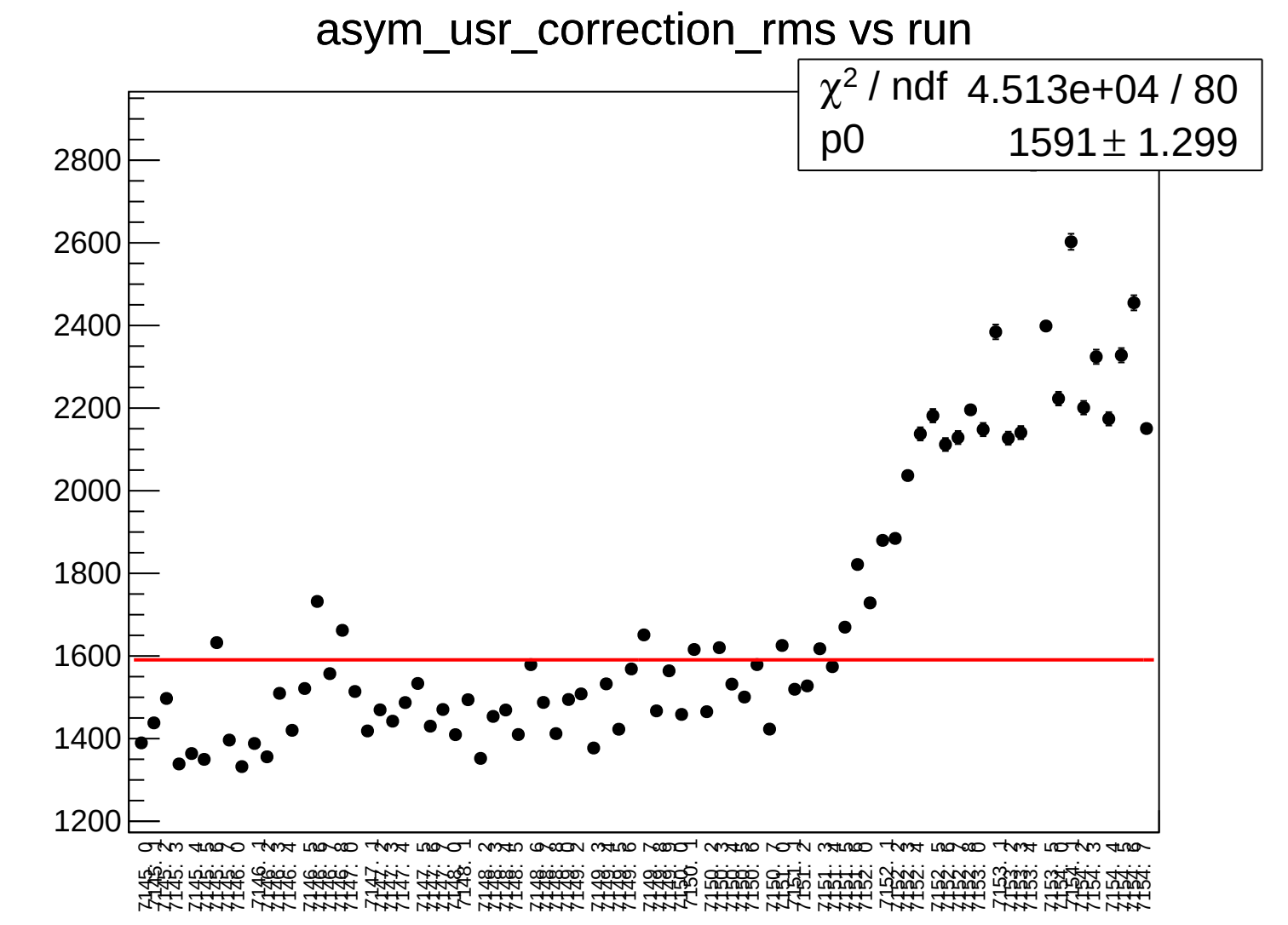

reg_asym_usr_mean vs run
χ² / ndf 78.09 / 80
p0 1227 ± 1251
pull
Entries 81
Mean −97.41
Std Dev 69.1

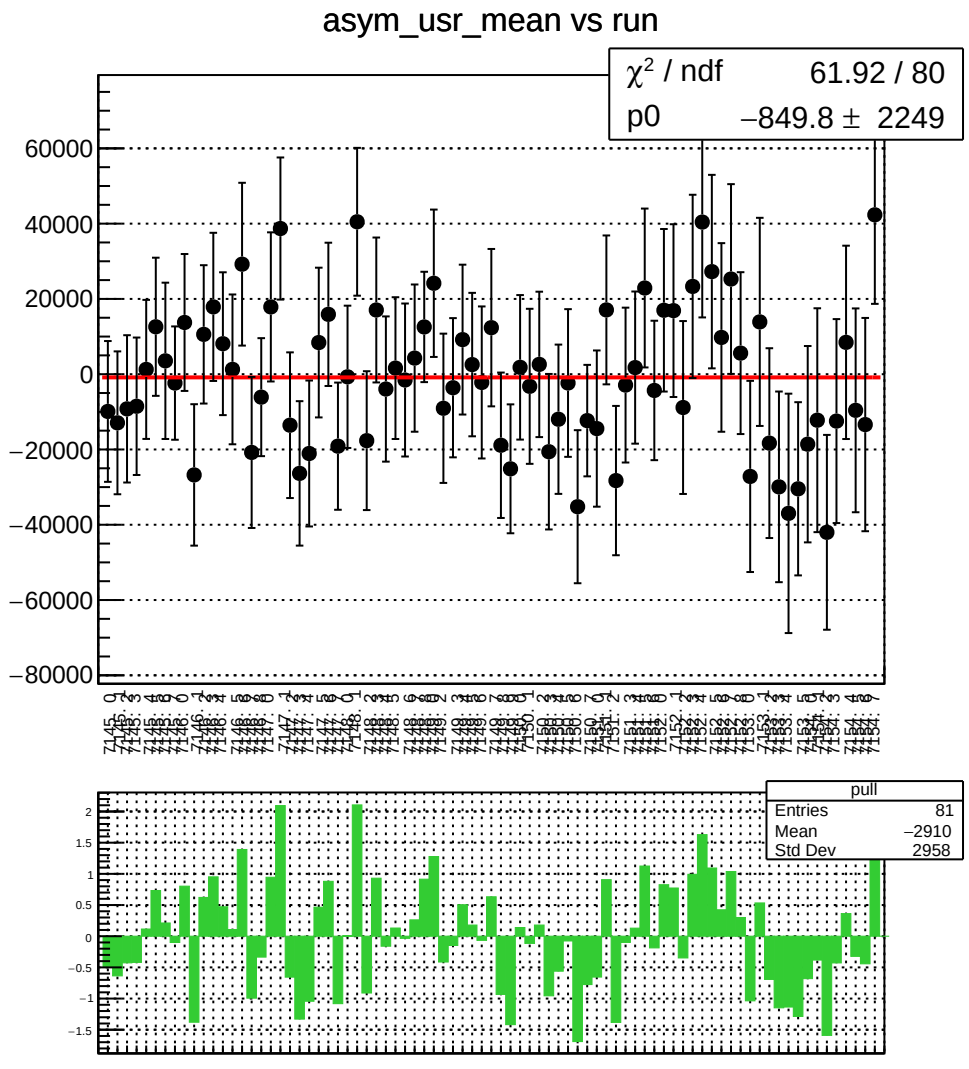

pull1D
Entries 81
Mean 0.006
Std Dev 0.9819

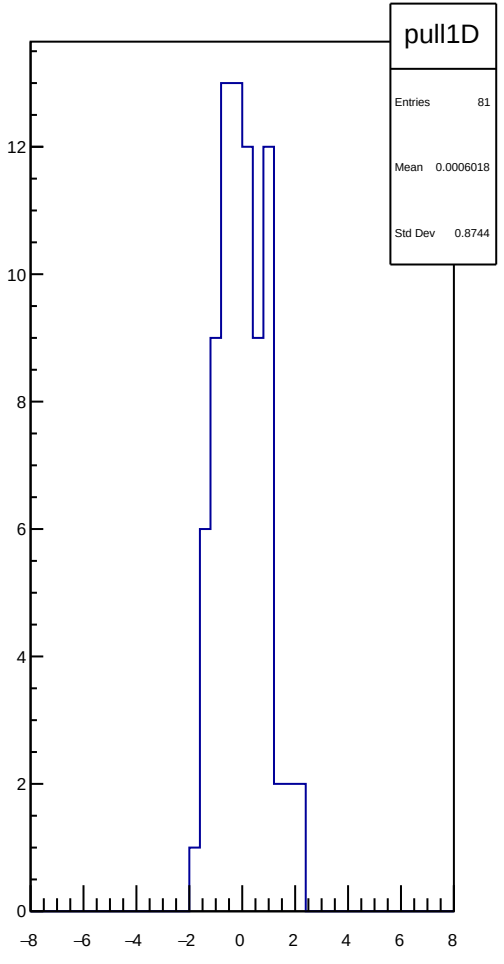

reg_asym_usr_rms vs run
χ² / ndf 96.25 / 80
p0 1100 ± 0.8846
1140
1130
1120
1110
1100
1090
1080
1070

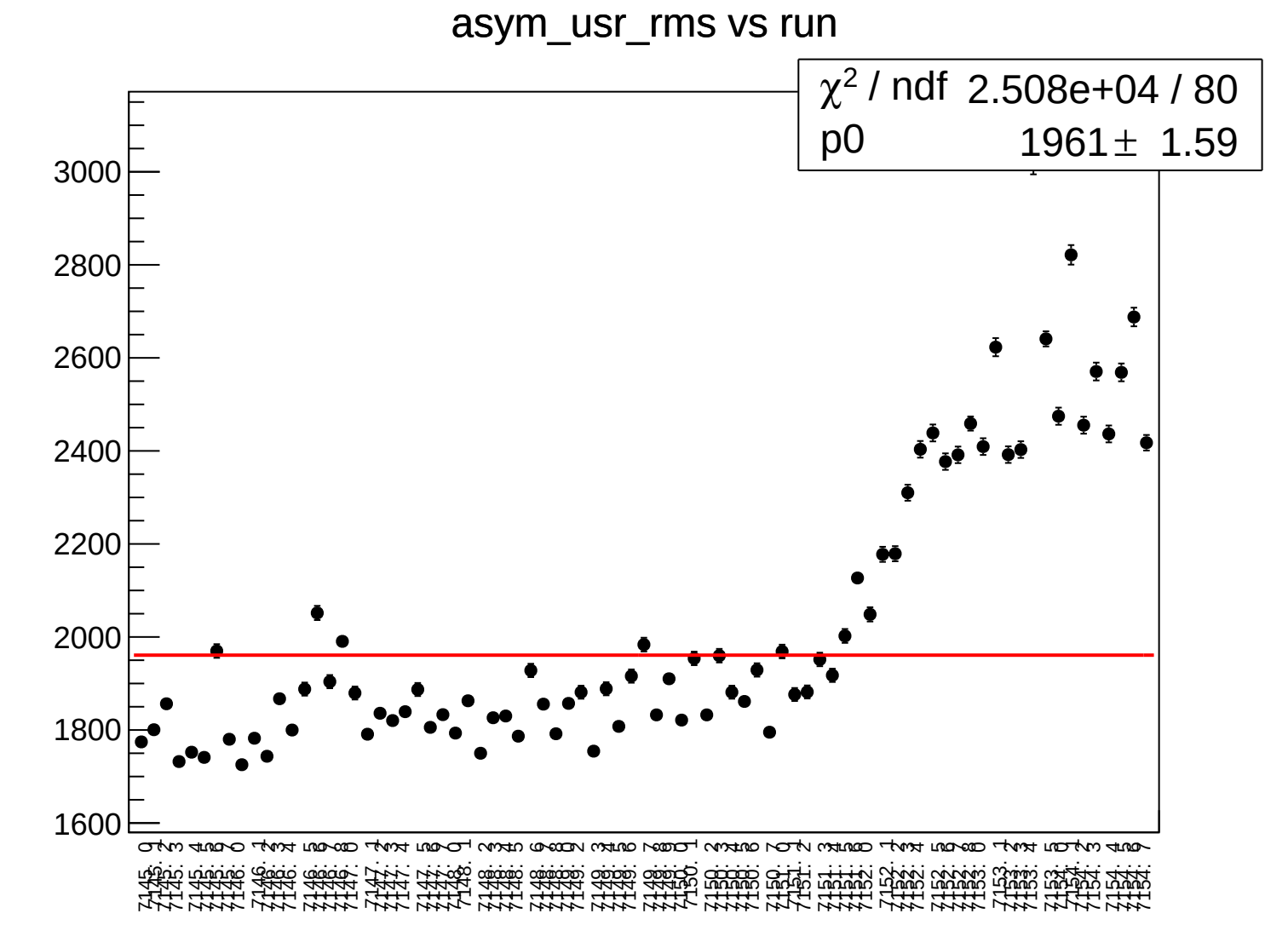

asym_usr_correction_mean vs run
χ² / ndf 64.13 / 80
p0 1959 ± 1836
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 330.2
Std Dev 236.9
2
1
0
−1
−2

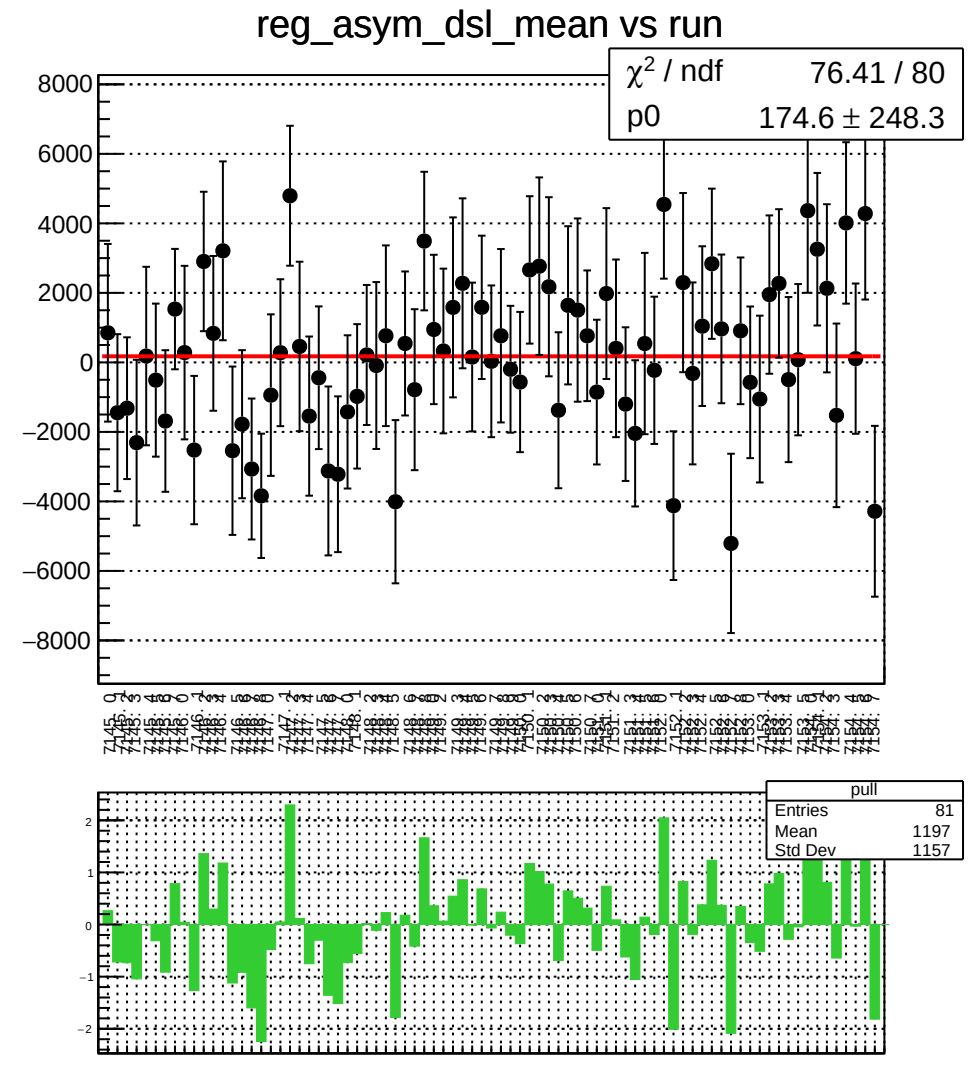

pull1D
Entries 81
Mean 0.003325
Std Dev 0.8898
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

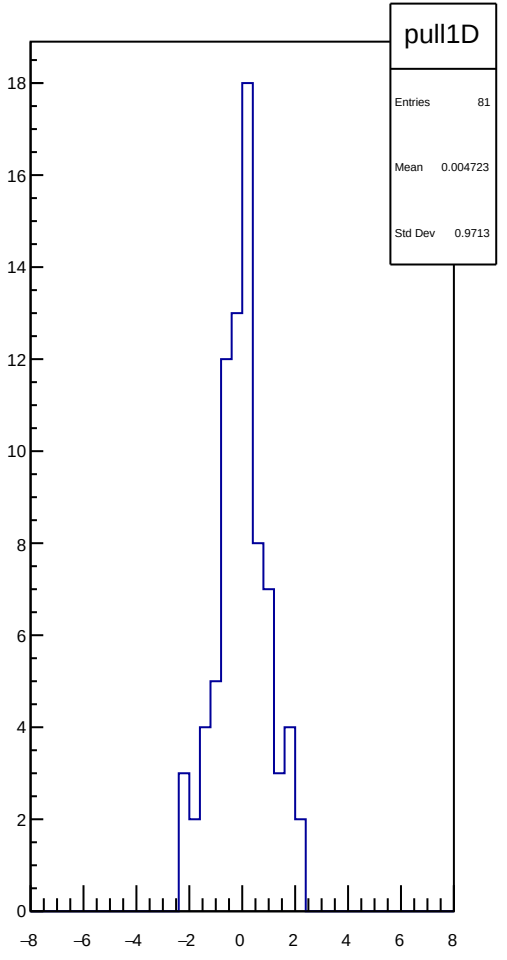

asym_usr_correction_rms vs run
χ² / ndf 4.513e+04 / 80
p0 1591 ± 1.299
2800
2600
2400
2200
2000
1800
1600
1400
1200

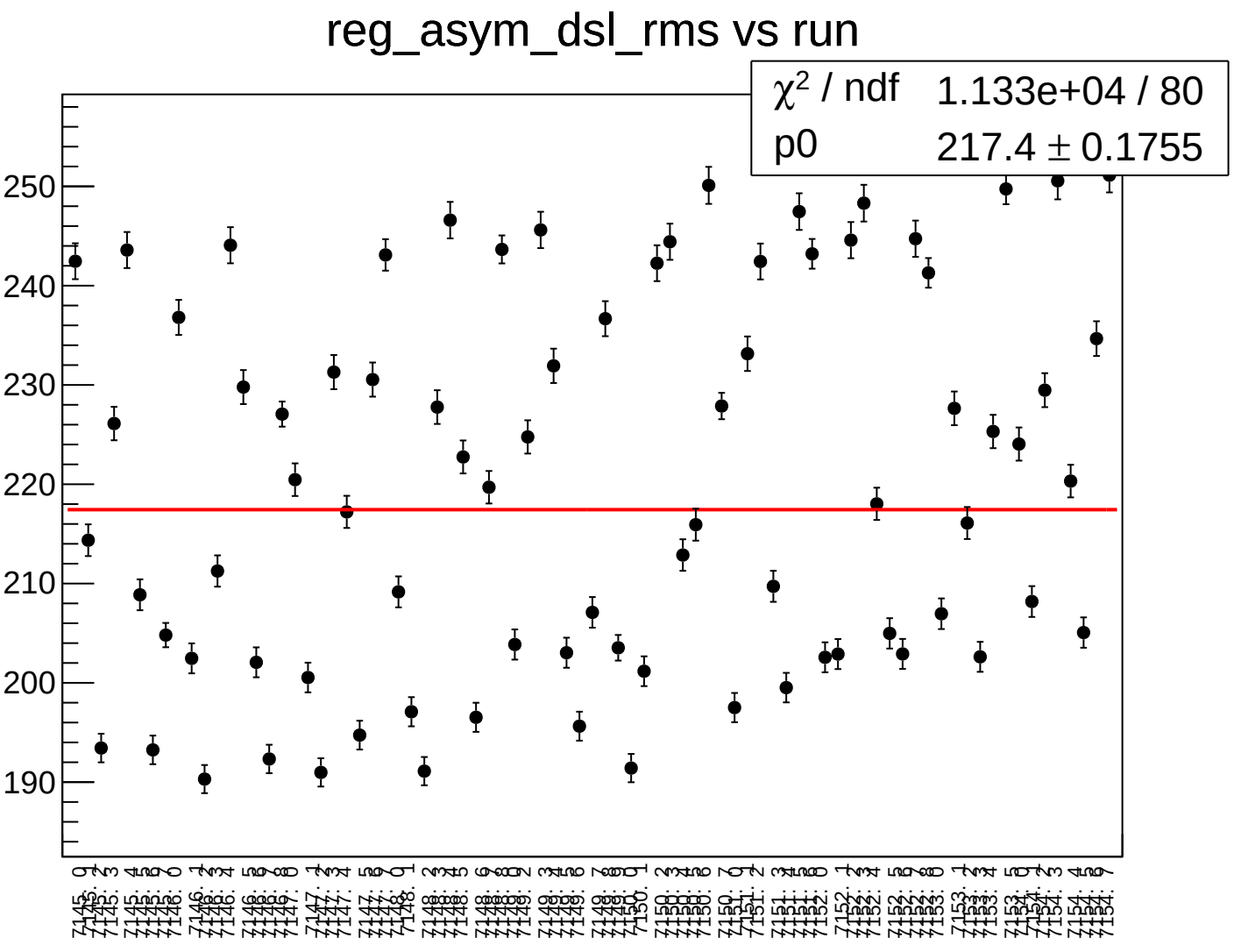

asym_usr_mean vs run
χ² / ndf 61.92 / 80
p0 −849.8 ± 2249
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean −2910
Std Dev 2958
2
1.5
1
0.5
0
−0.5
−1
−1.5

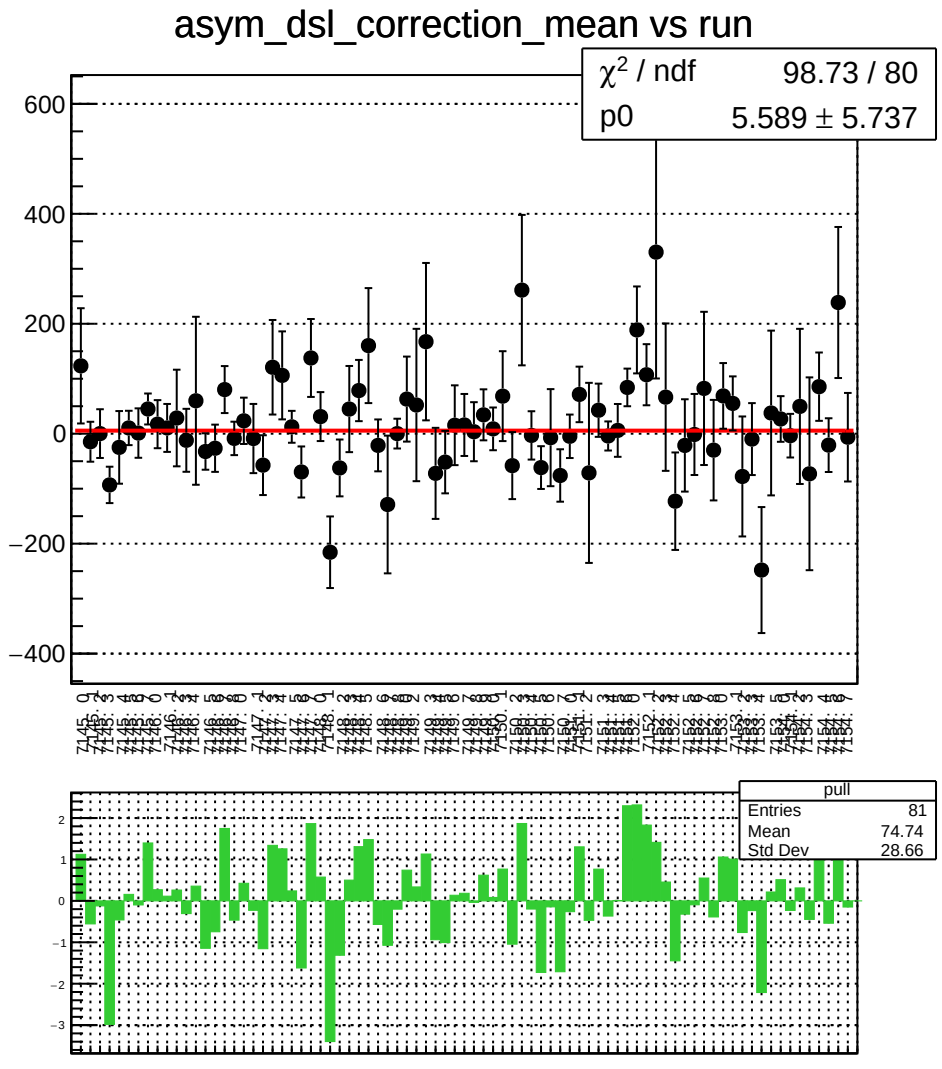

pull1D
Entries 81
Mean 0.0006018
Std Dev 0.8744
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

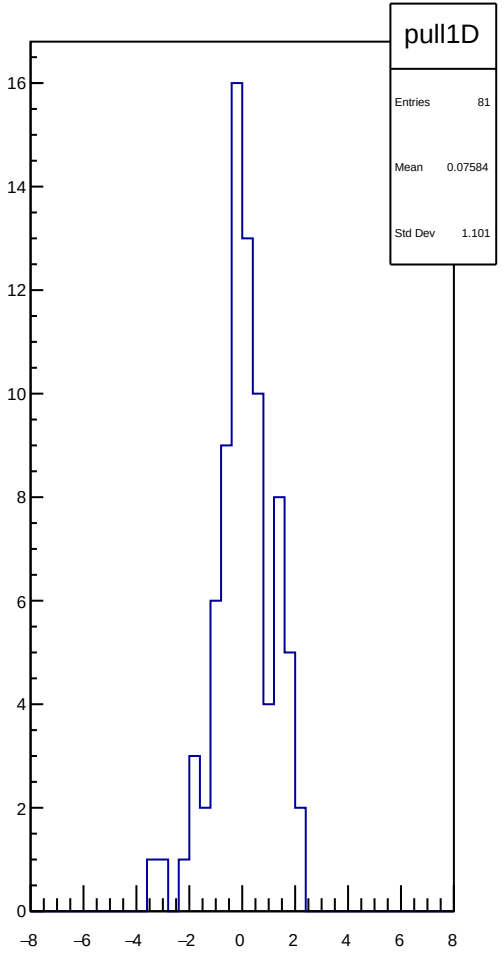

asym_usr_rms vs run
χ² / ndf 2.508e+04 / 80
p0 1961 ± 1.59
3000
2800
2600
2400
2200
2000
1800
1600


reg_asym_dsl_mean vs run
χ² / ndf 76.41 / 80
p0 174.6 ± 248.3
pull
Entries 81
Mean 1197
Std Dev 1157

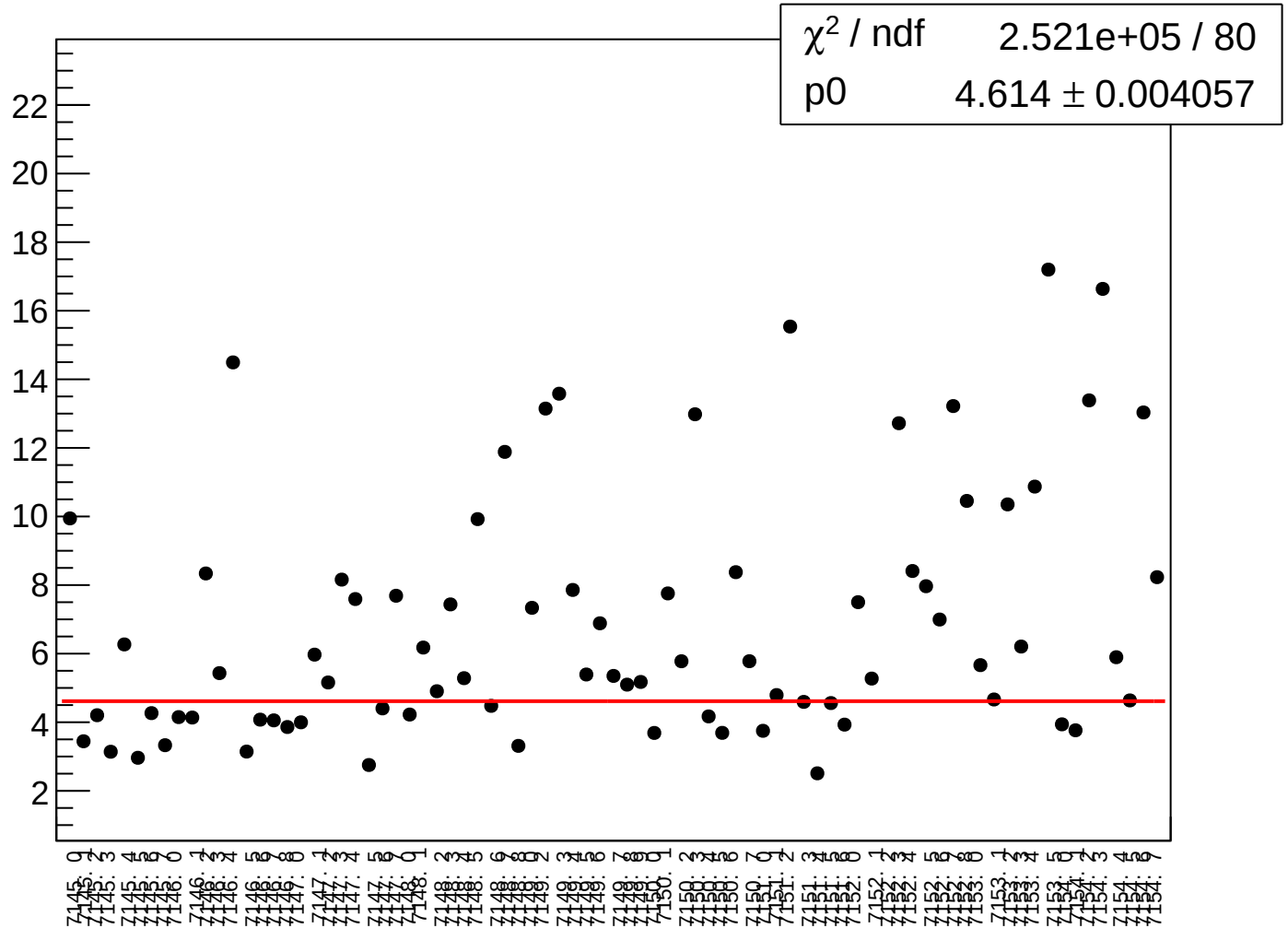

pull1D
Entries 81
Mean 0.004723
Std Dev 0.9713

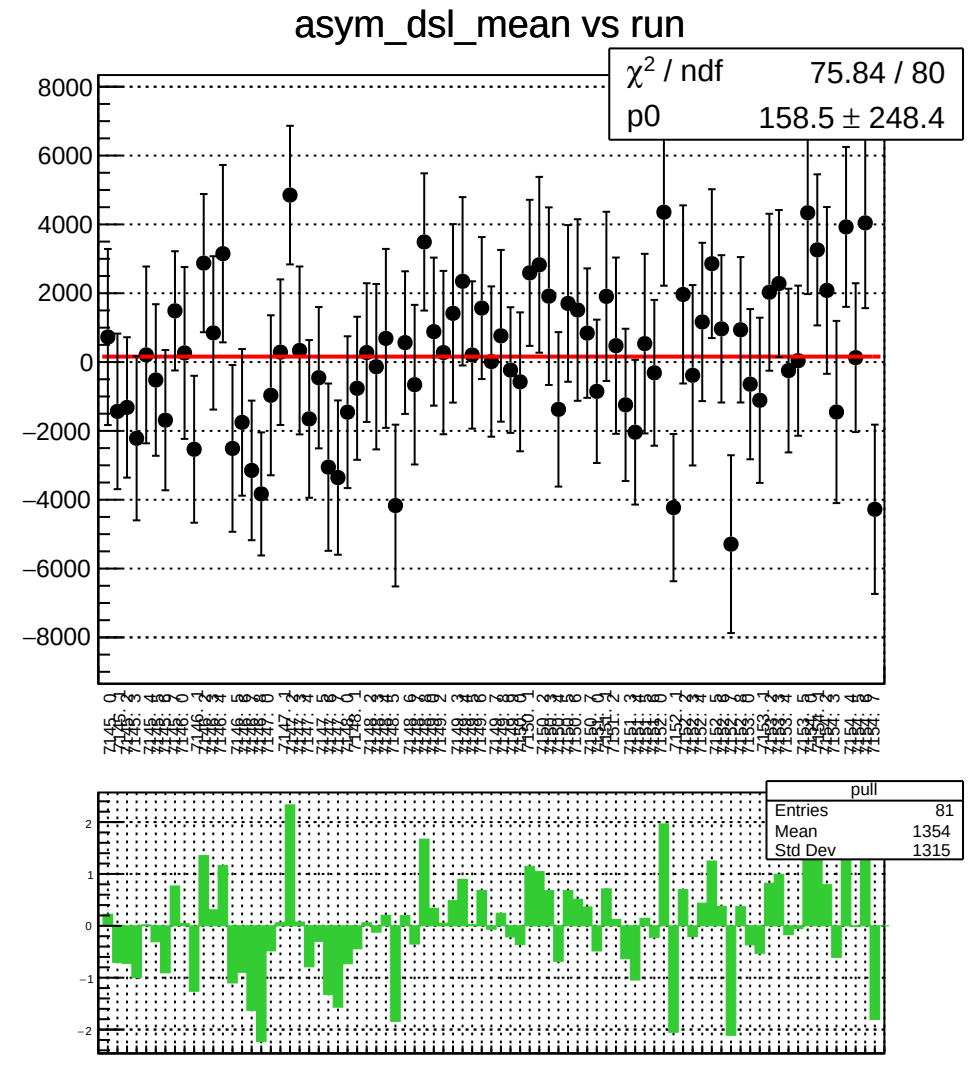

reg_asym_dsl_rms vs run
χ² / ndf 1.133e+04 / 80
p0 217.4 ± 0.1755
250
240
230
220
210
200
190

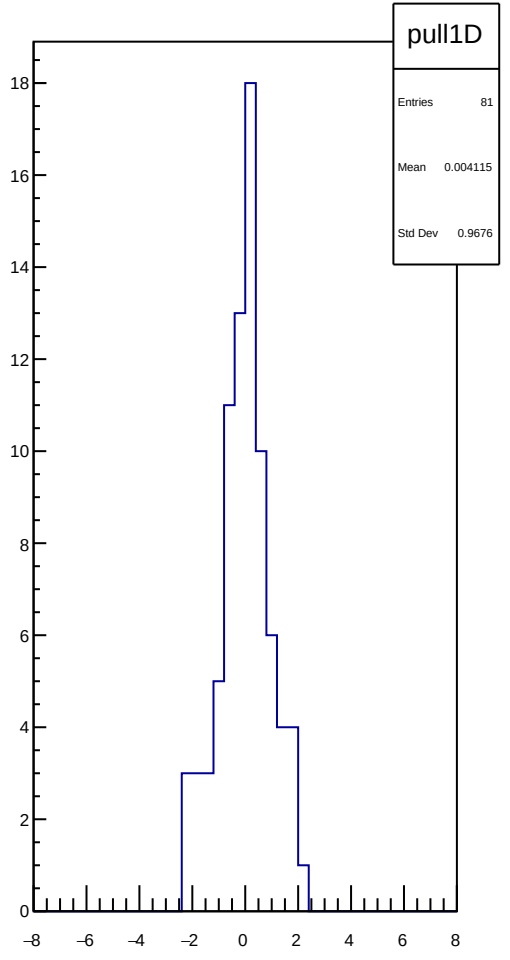

asym_dsl_correction_mean vs run
χ² / ndf 98.73 / 80
p0 5.589 ± 5.737
pull
Entries 81
Mean 74.74
Std Dev 28.66

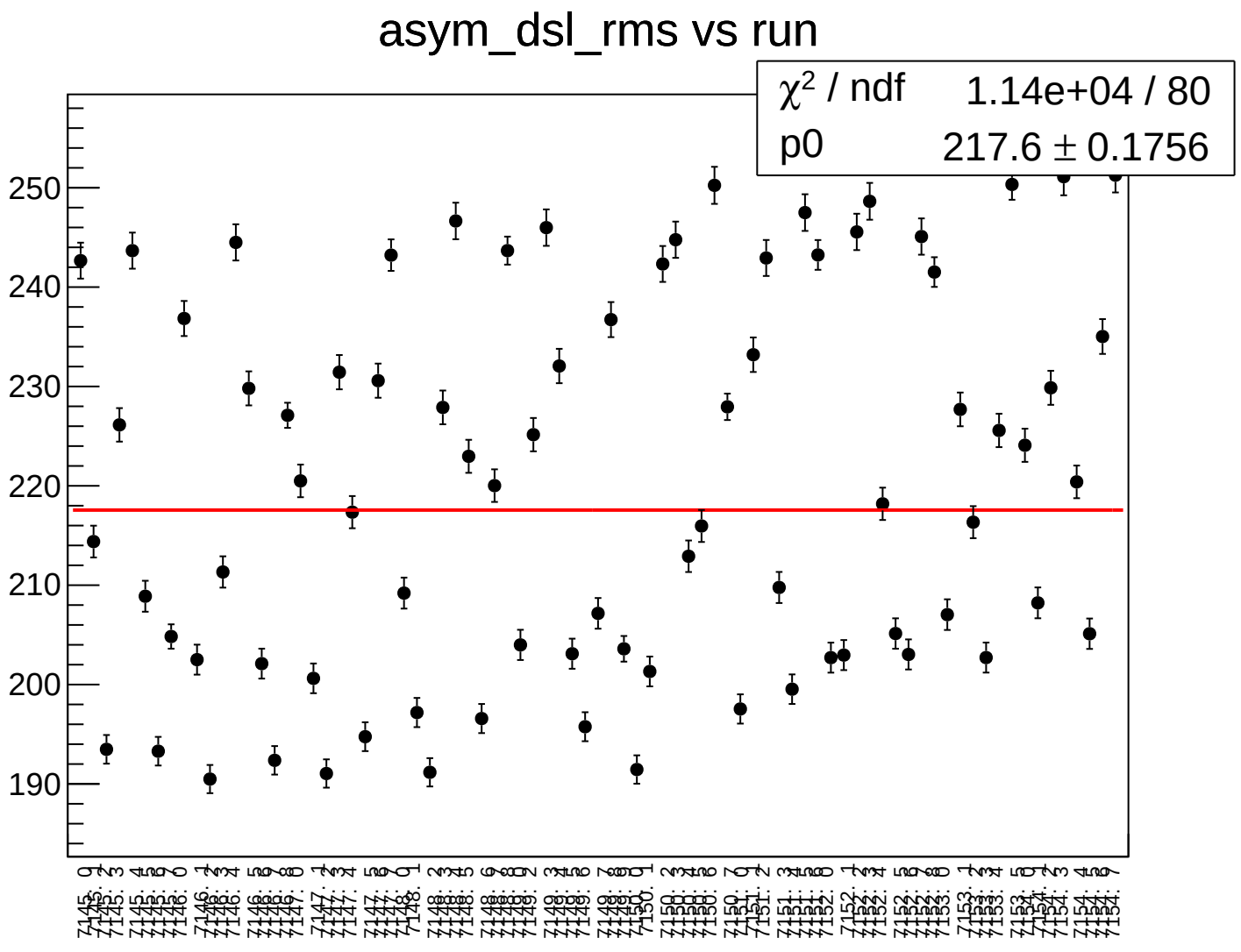

pull1D
Entries 81
Mean 0.07584
Std Dev 1.101

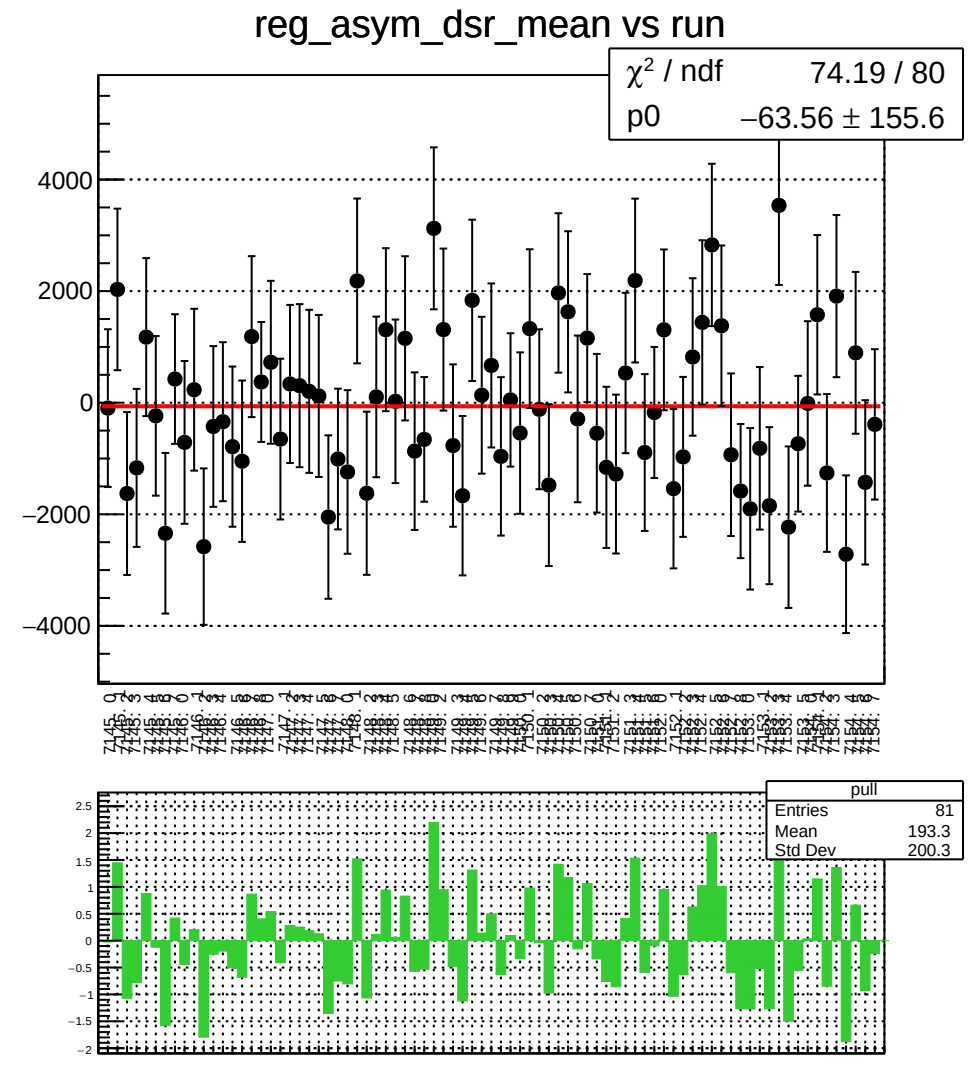
asym_dsl_correction_rms vs run

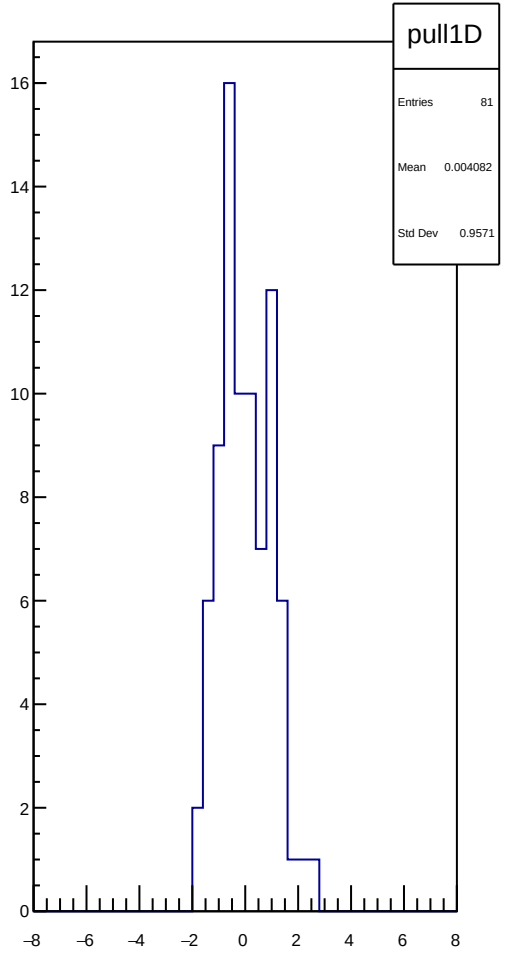


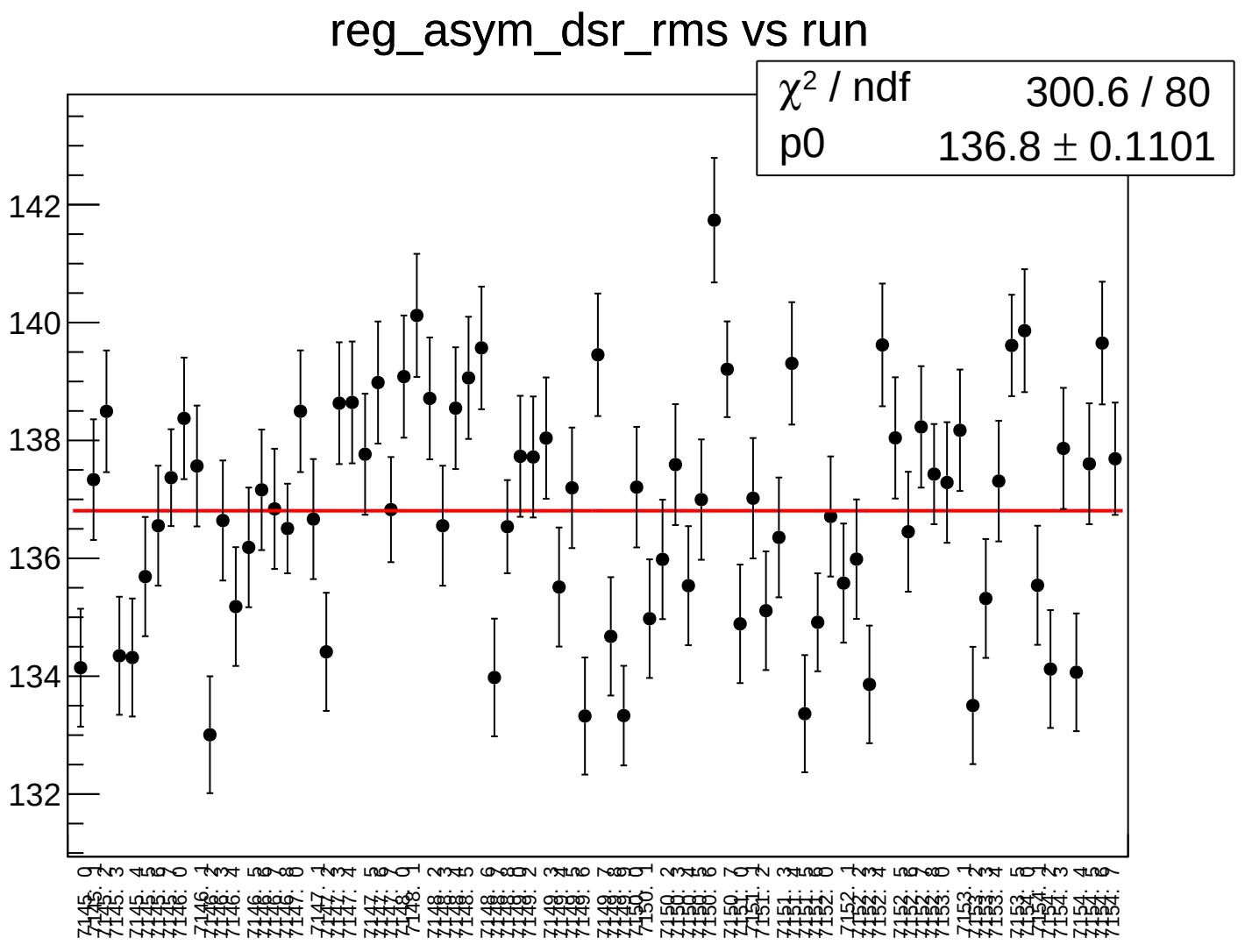

asym_dsl_mean vs run
χ² / ndf 75.84 / 80
p0 158.5 ± 248.4
pull
Entries 81
Mean 1354
Std Dev 1315

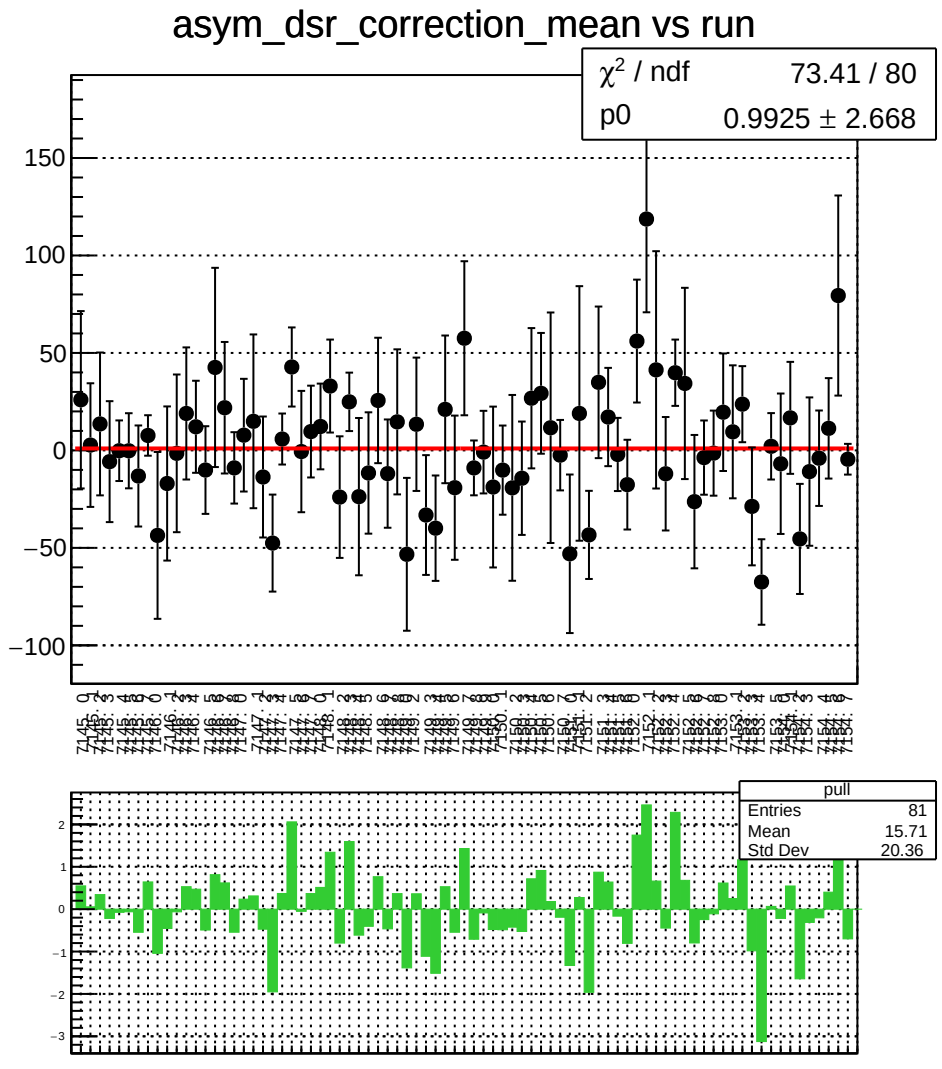

pull1D
Entries 81
Mean 0.004115
Std Dev 0.9676

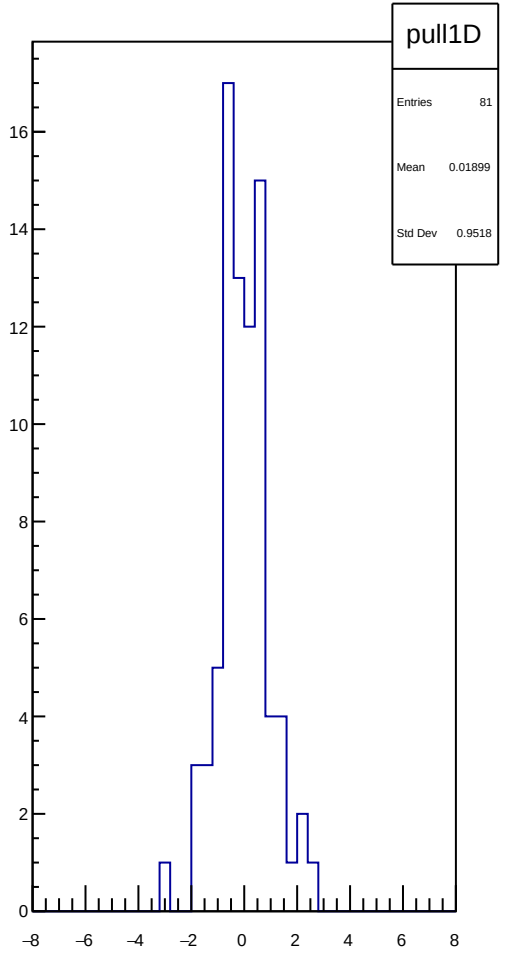

asym_dsl_rms vs run
χ² / ndf 1.14e+04 / 80
p0 217.6 ± 0.1756
250
240
230
220
210
200
190

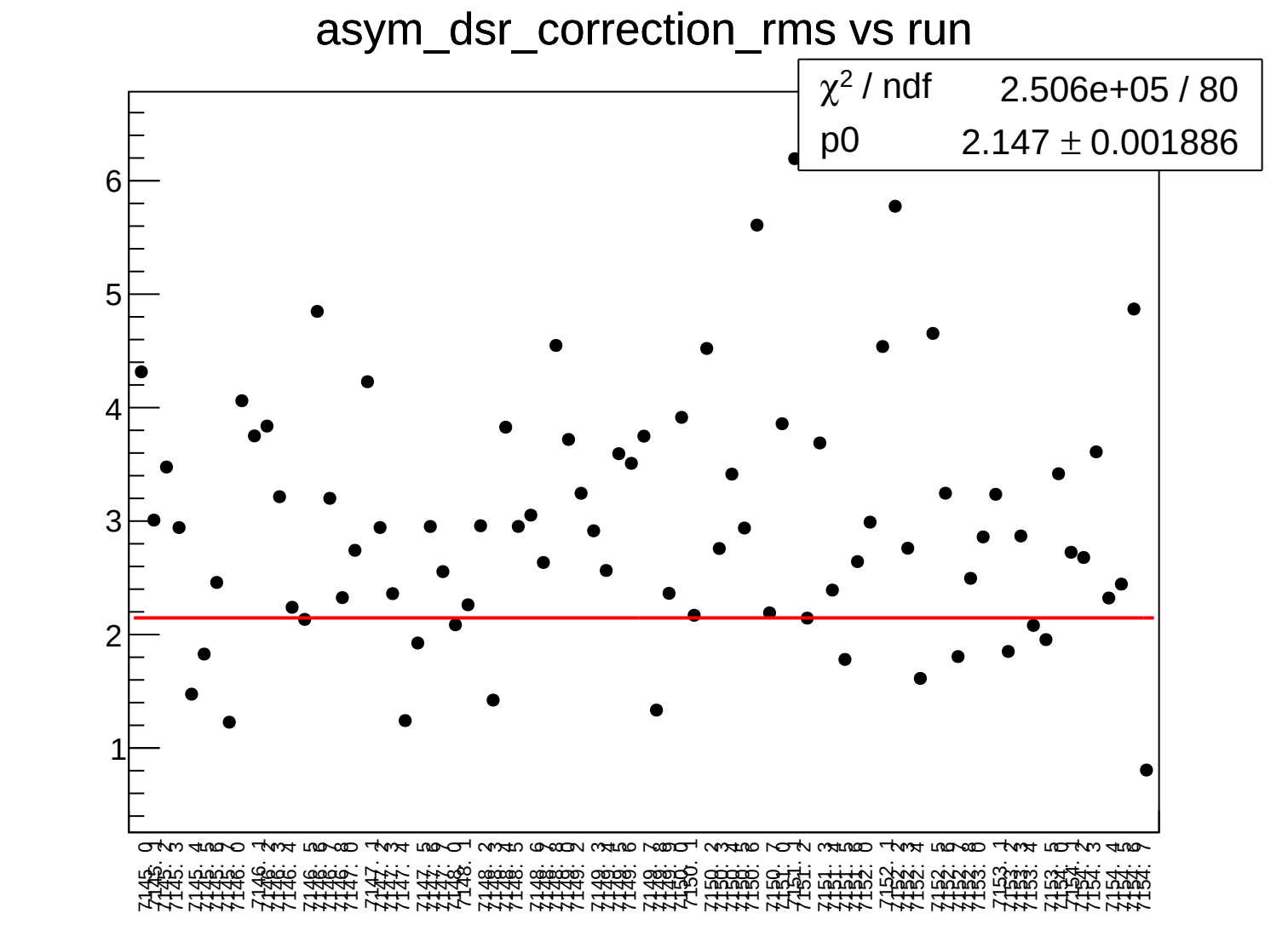

reg_asym_dsr_mean vs run
χ² / ndf 74.19 / 80
p0 −63.56 ± 155.6
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 193.3
Std Dev 200.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

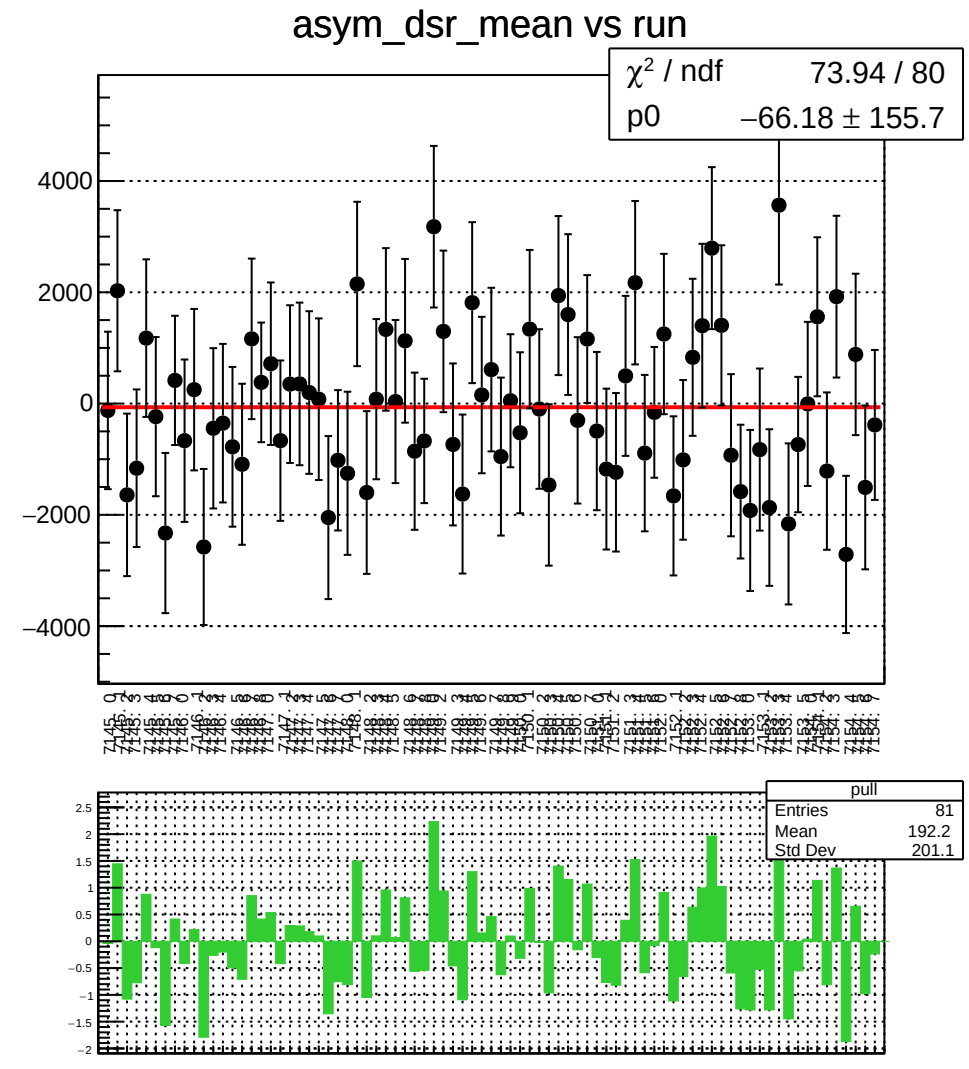

pull1D
Entries 81
Mean 0.004082
Std Dev 0.9571
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

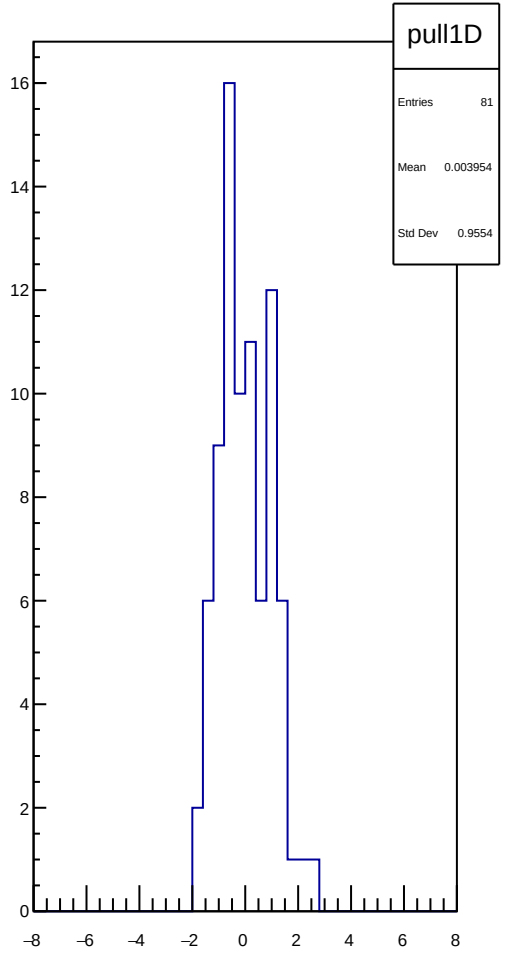

reg_asym_dsr_rms vs run
χ² / ndf 300.6 / 80
p0 136.8 ± 0.1101
142
140
138
136
134
132

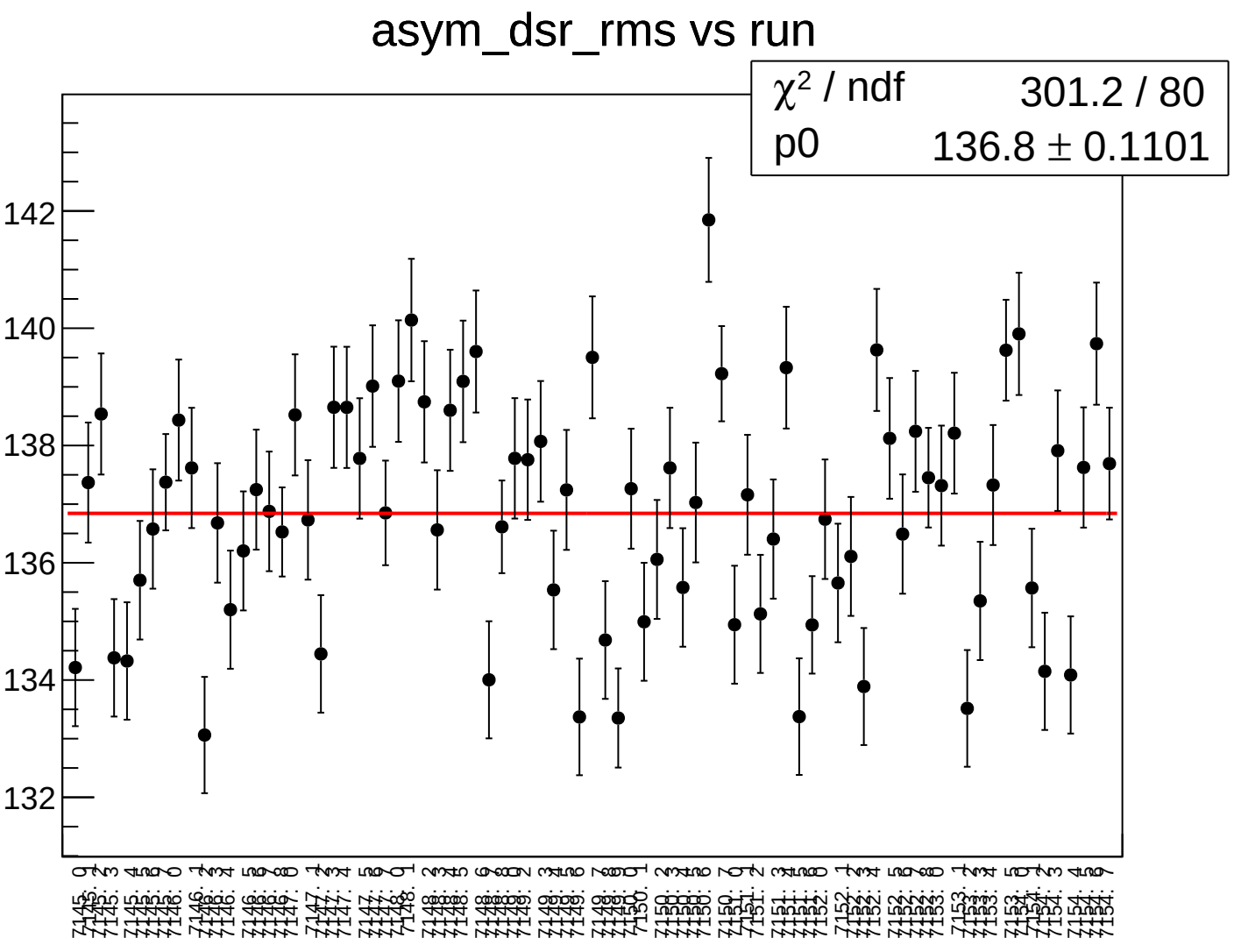

asym_dsr_correction_mean vs run
χ² / ndf 73.41 / 80
p0 0.9925 ± 2.668
150
100
50
0
−50
−100
pull
Entries 81
Mean 15.71
Std Dev 20.36
2
1
0
−1
−2
−3

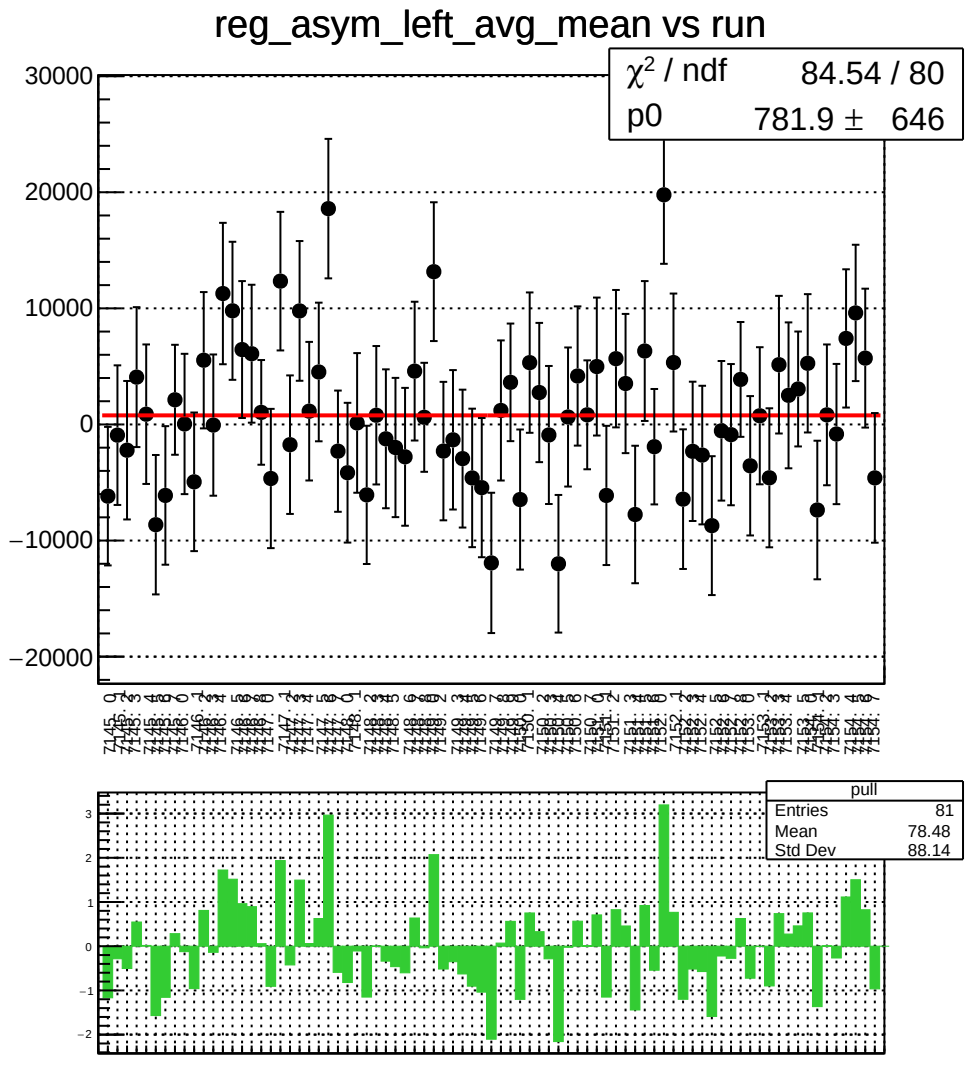

pull1D
Entries 81
Mean 0.01899
Std Dev 0.9518
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

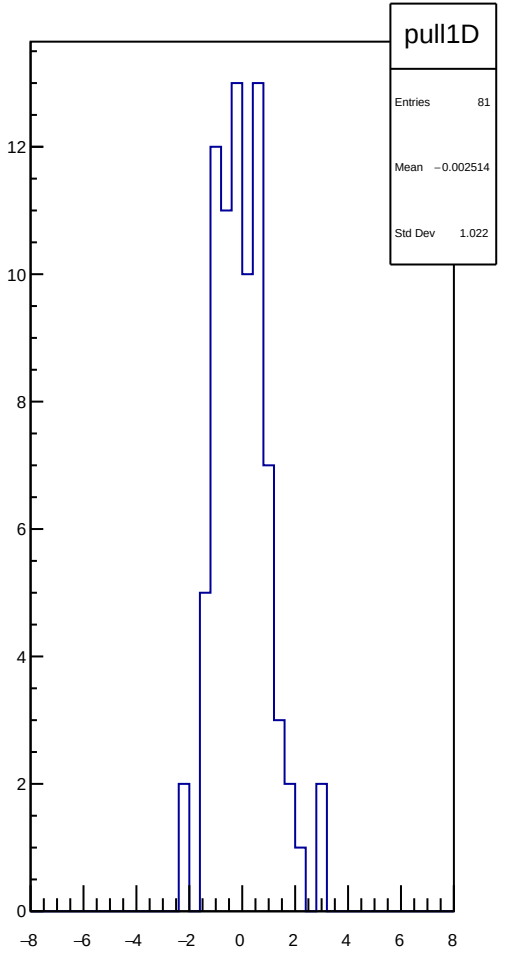

asym_dsr_correction_rms vs run
χ^2 / ndf 2.506e+05 / 80
p0 2.147 ± 0.001886
6
5
4
3
2
1

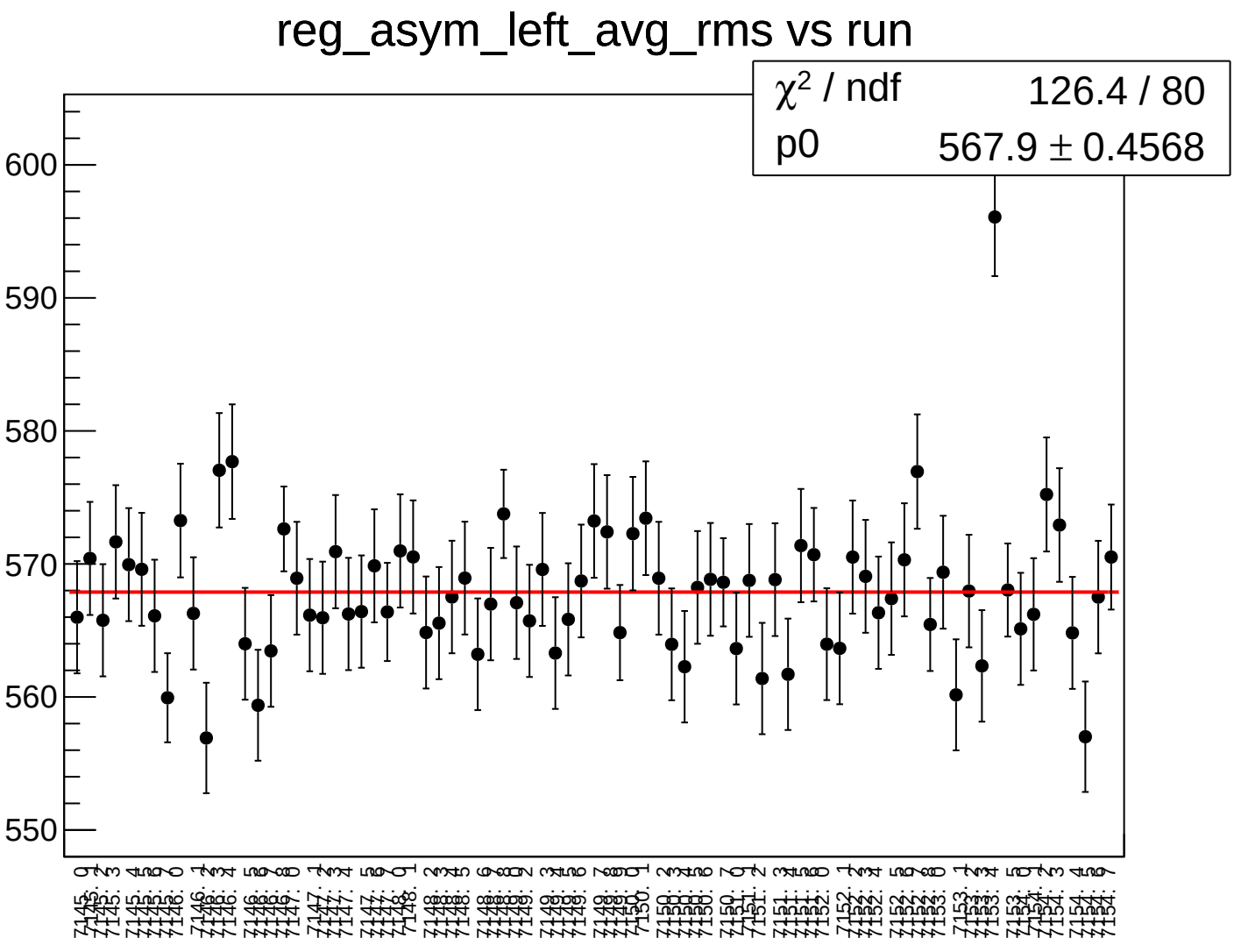

asym_dsr_mean vs run
χ² / ndf 73.94 / 80
p0 −66.18 ± 155.7
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 192.2
Std Dev 201.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

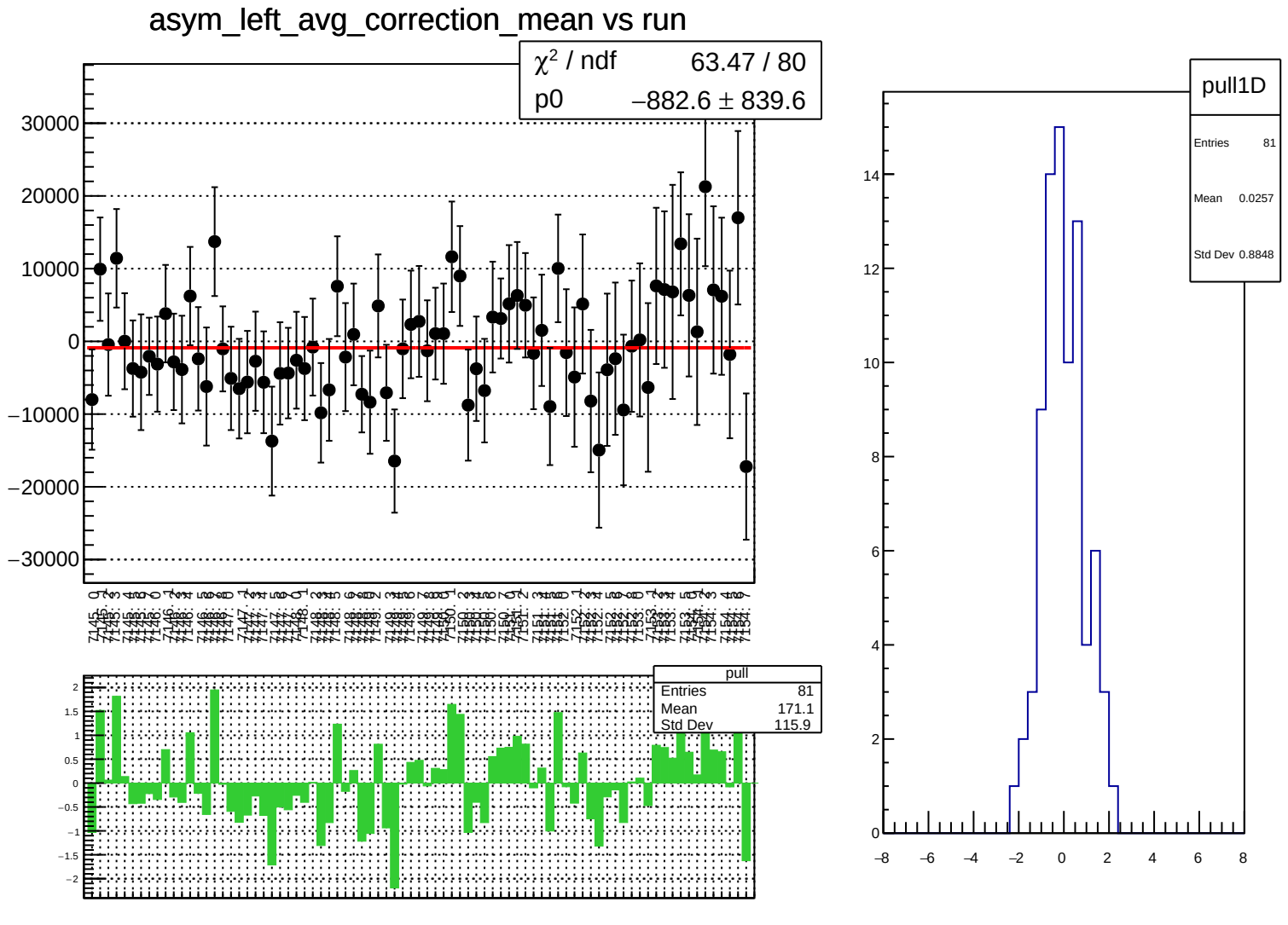

pull1D
Entries 81
Mean 0.003954
Std Dev 0.9554
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

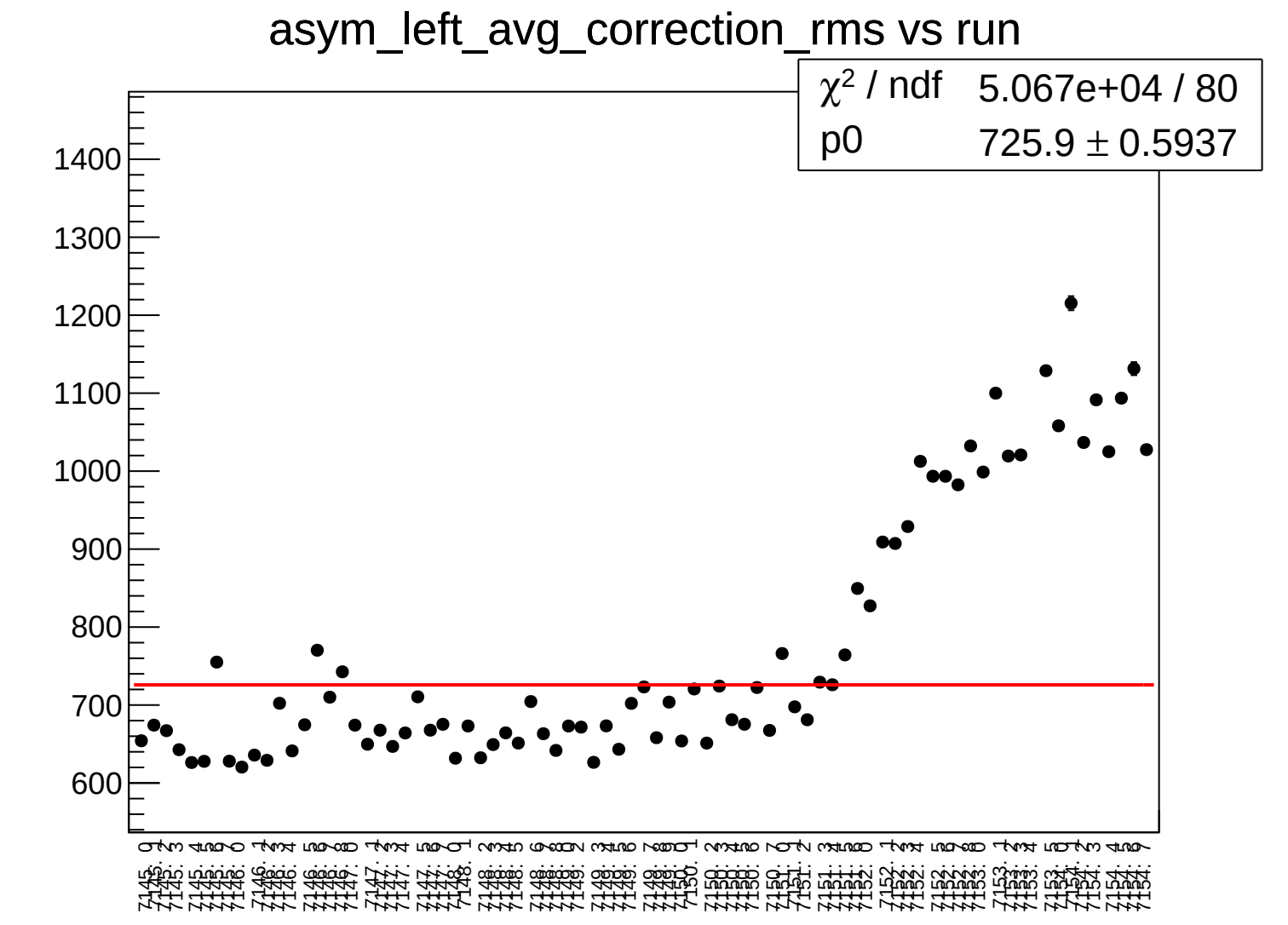

asym_dsr_rms vs run
χ² / ndf 301.2 / 80
p0 136.8 ± 0.1101
142
140
138
136
134
132

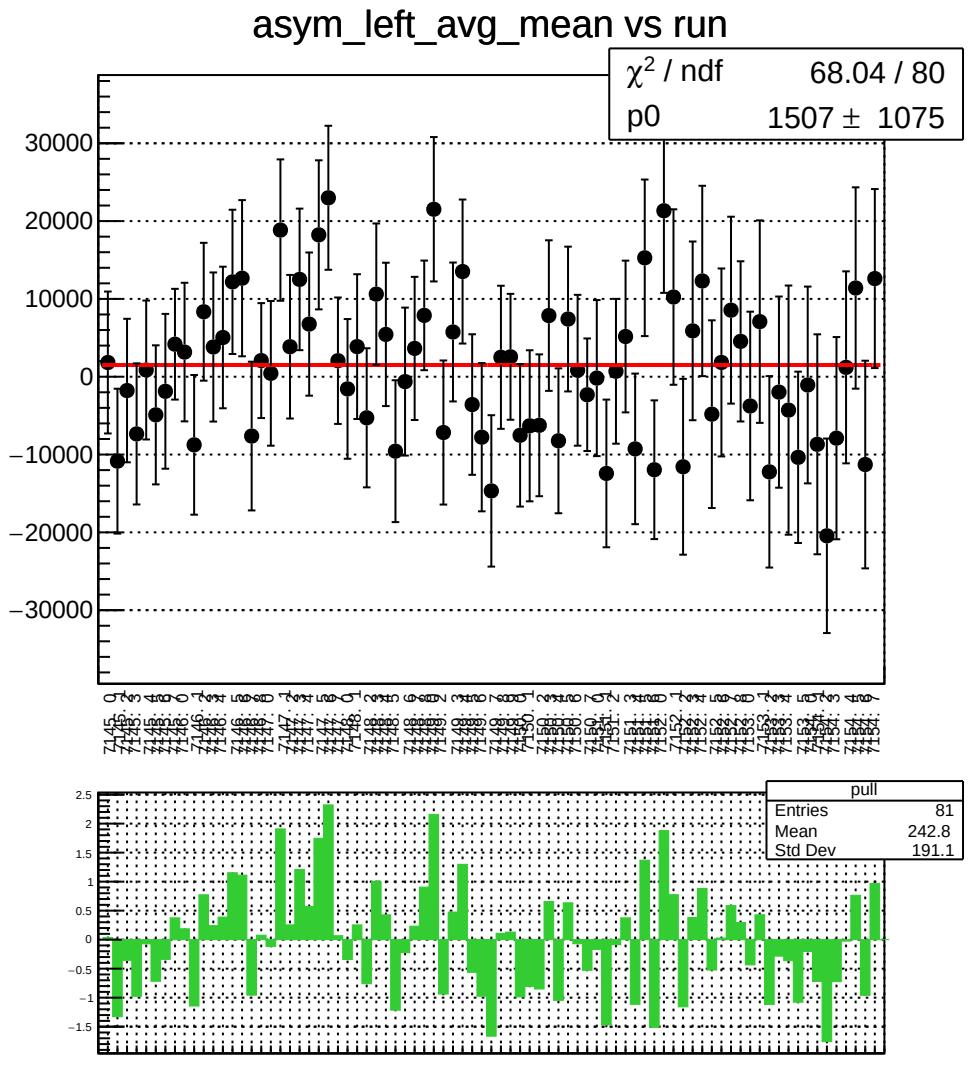

reg_asym_left_avg_mean vs run
χ² / ndf 84.54 / 80
p0 781.9 ± 646
pull
Entries 81
Mean 78.48
Std Dev 88.14

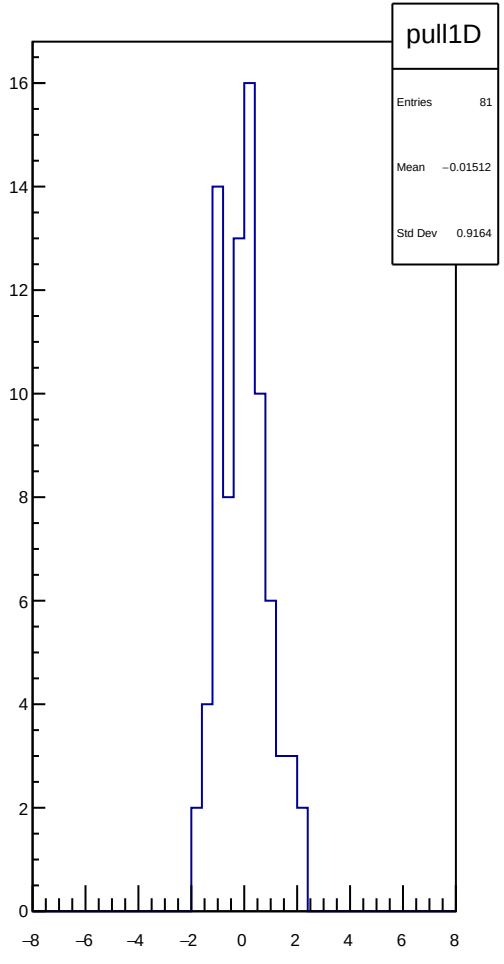

pull1D
Entries 81
Mean −0.002514
Std Dev 1.022

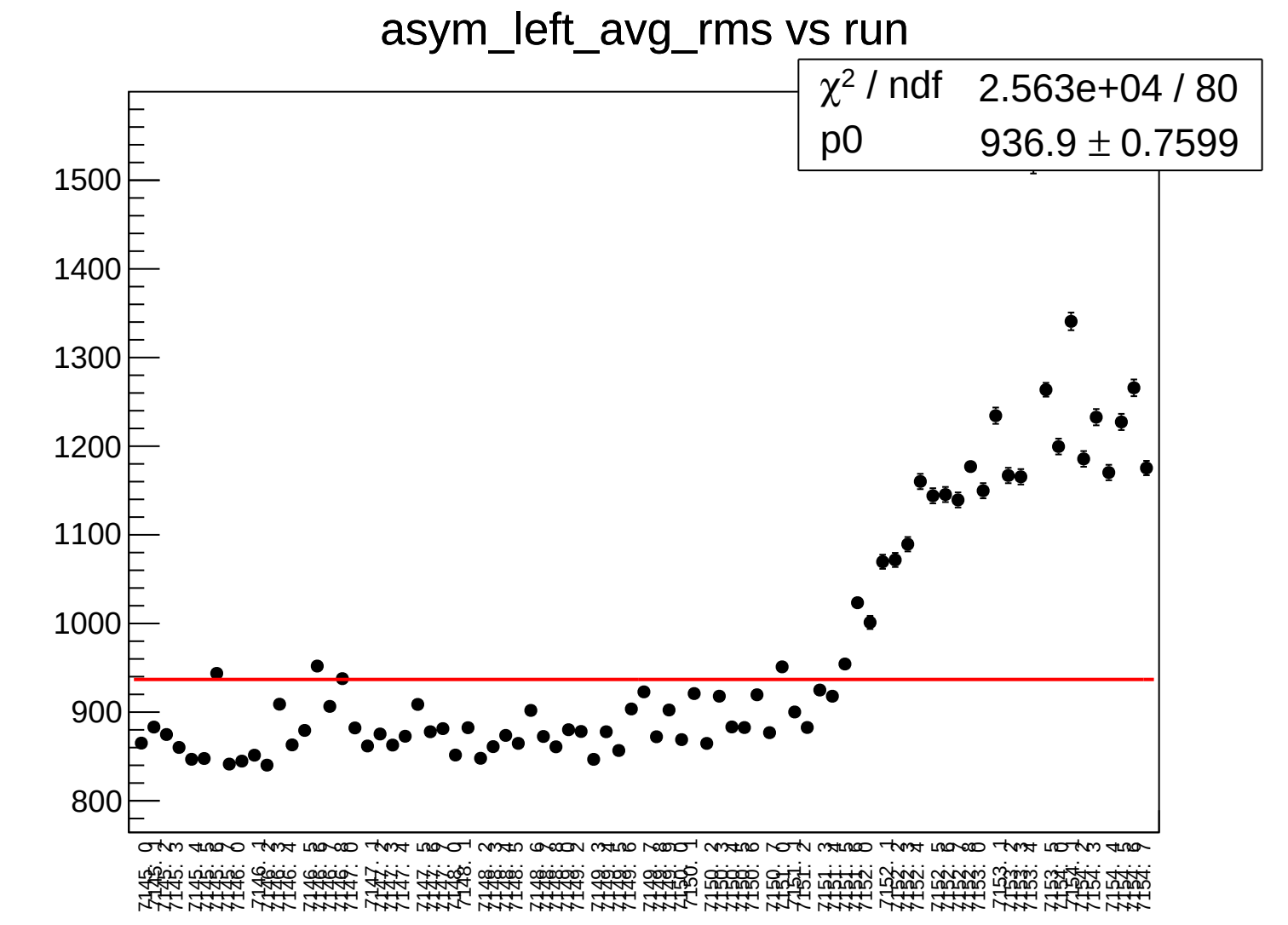

reg_asym_left_avg_rms vs run
χ² / ndf 126.4 / 80
p0 567.9 ± 0.4568
600
590
580
570
560
550

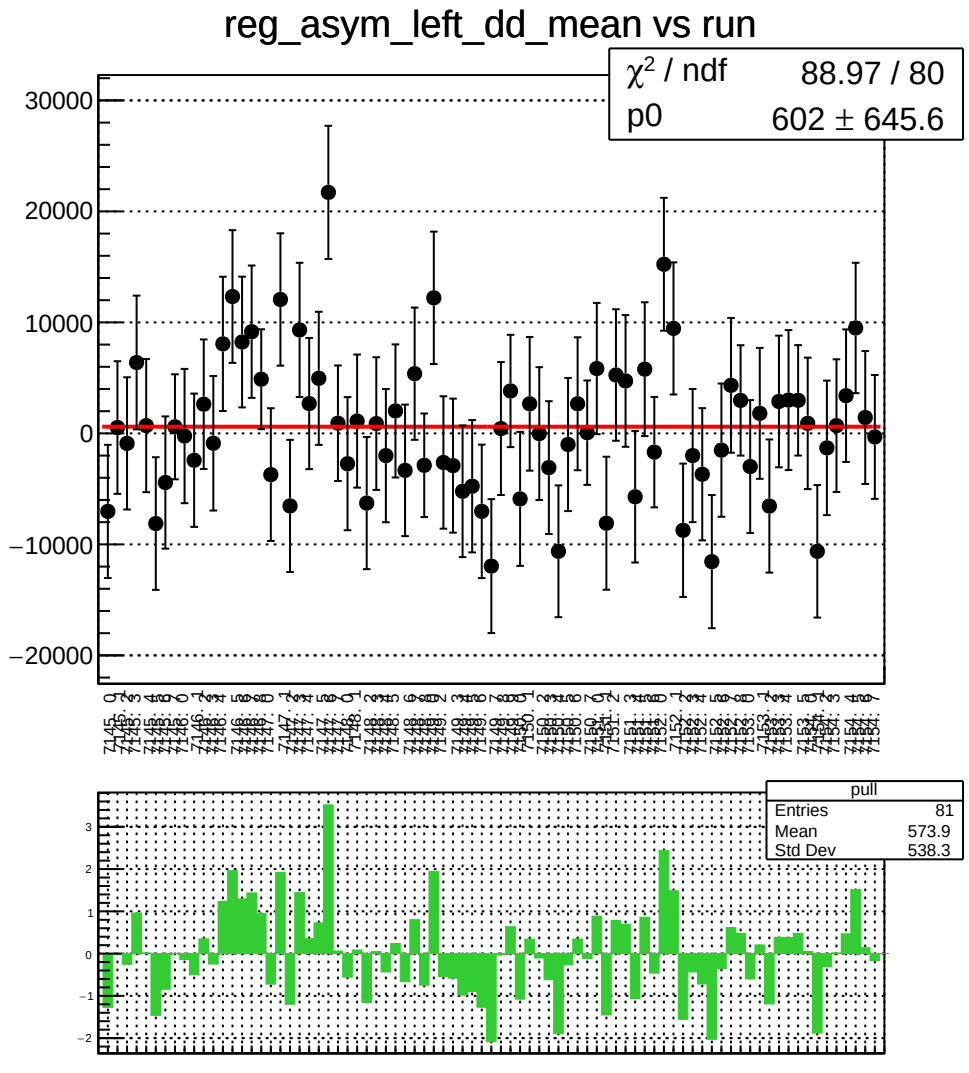

asym_left_avg_correction_mean vs run
χ² / ndf 63.47 / 80
p0 −882.6 ± 839.6
pull
Entries 81
Mean 171.1
Std Dev 115.9
pull1D
Entries 81
Mean 0.0257
Std Dev 0.8848

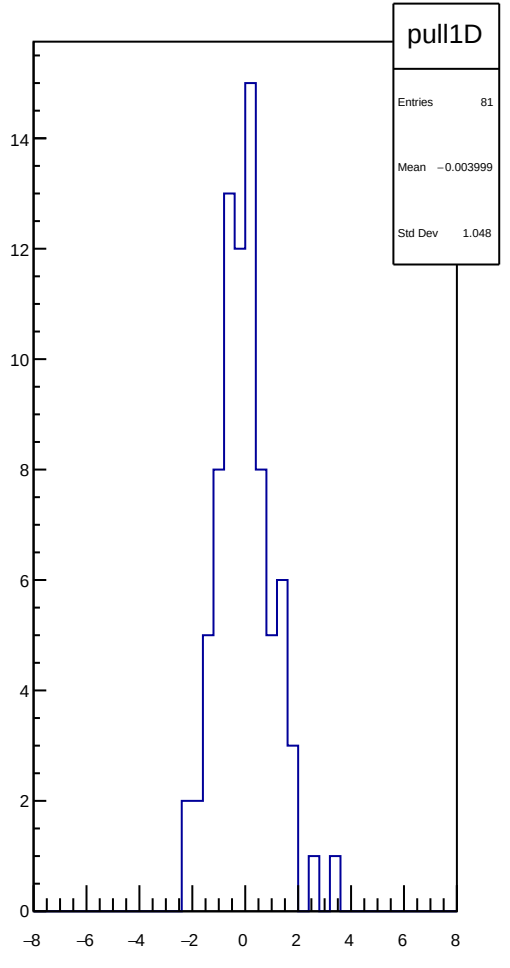

asym_left_avg_correction_rms vs run
χ² / ndf 5.067e+04 / 80
p0 725.9 ± 0.5937
1400
1300
1200
1100
1000
900
800
700
600

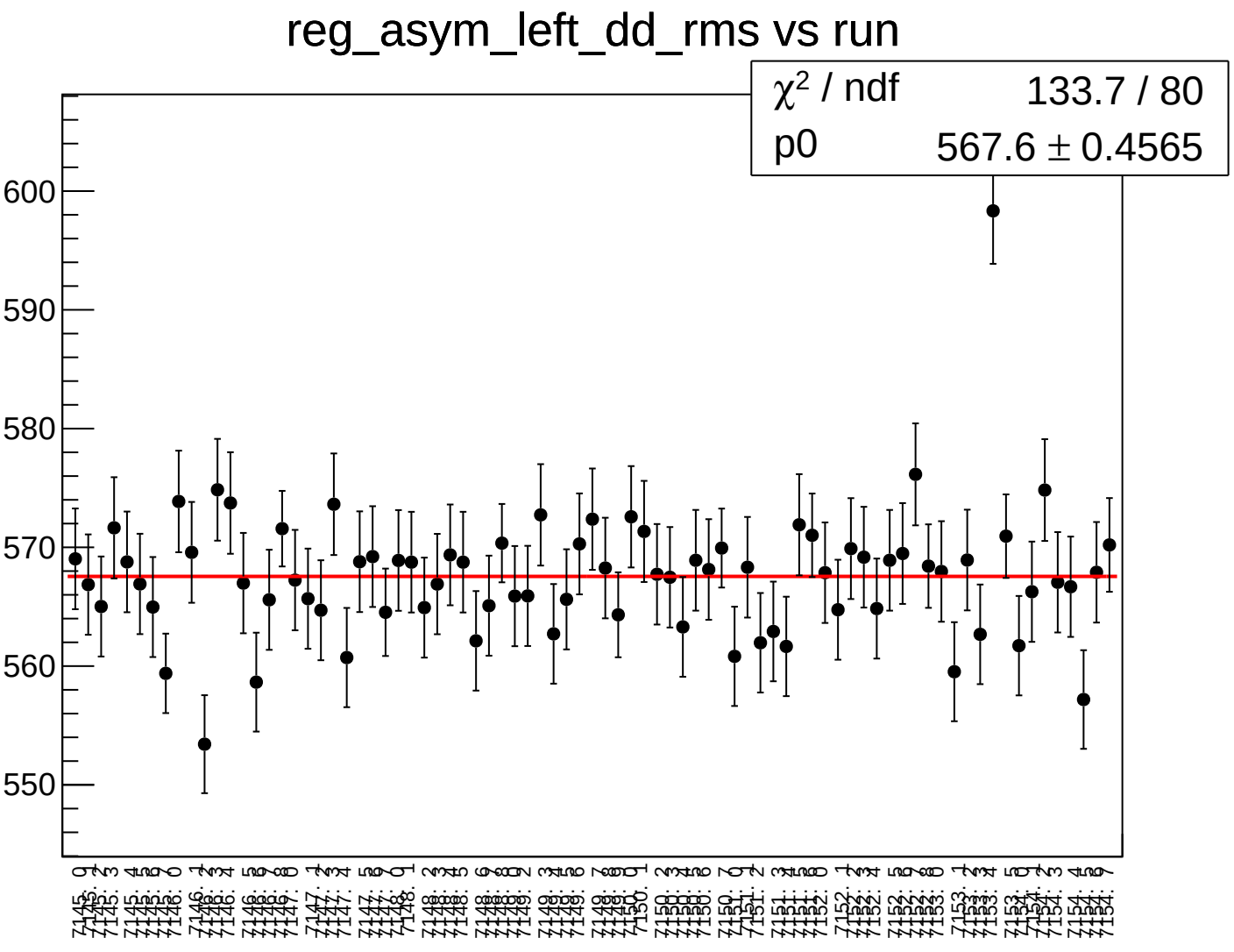

asym_left_avg_mean vs run
χ² / ndf 68.04 / 80
p0 1507 ± 1075
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 242.8
Std Dev 191.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

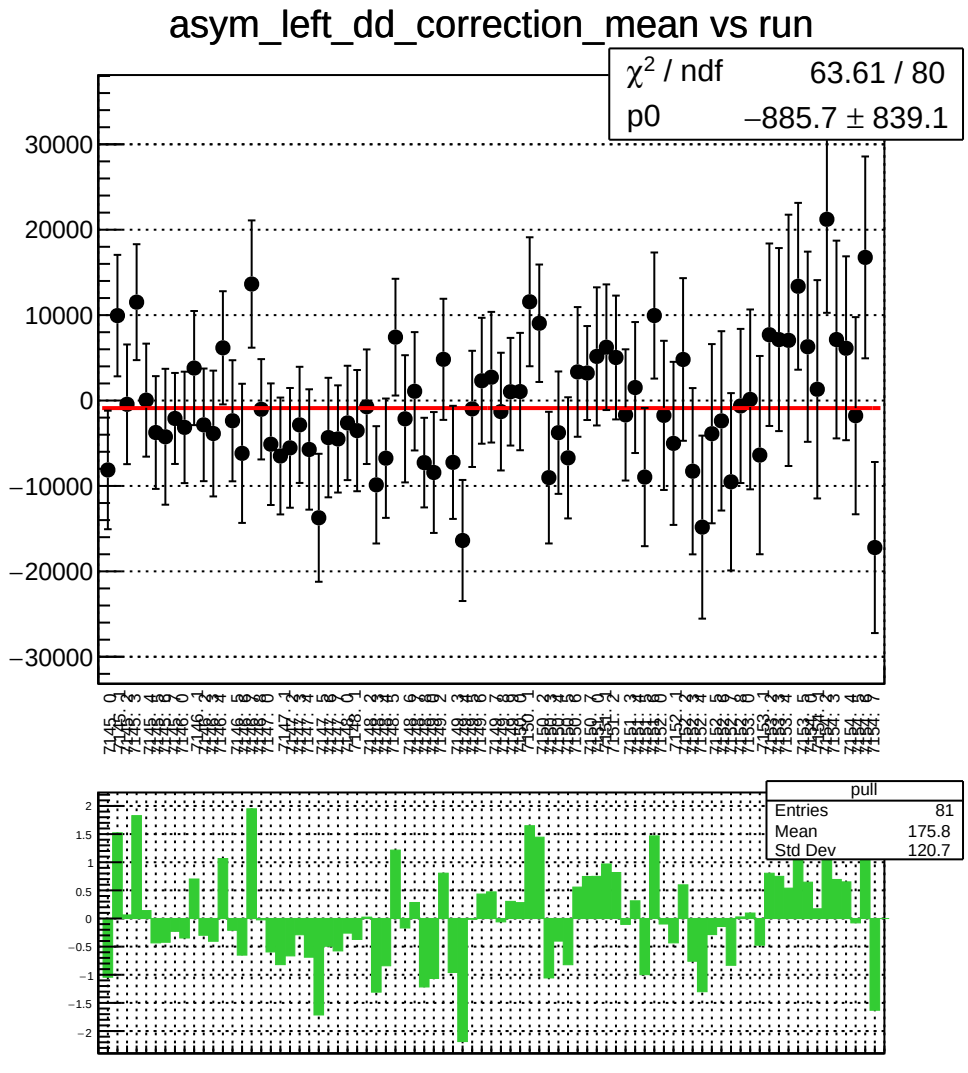

pull1D
Entries 81
Mean −0.01512
Std Dev 0.9164
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

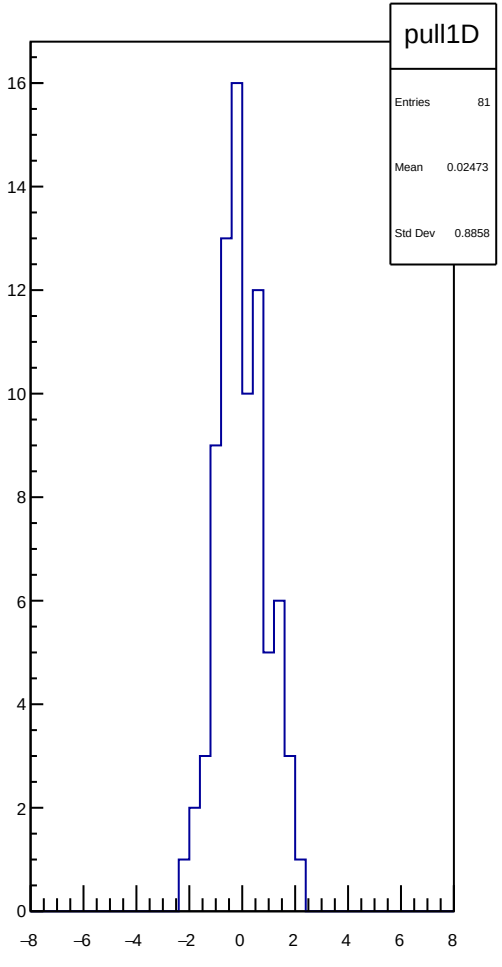

asym_left_avg_rms vs run
χ² / ndf 2.563e+04 / 80
p0 936.9 ± 0.7599
1500
1400
1300
1200
1100
1000
900
800

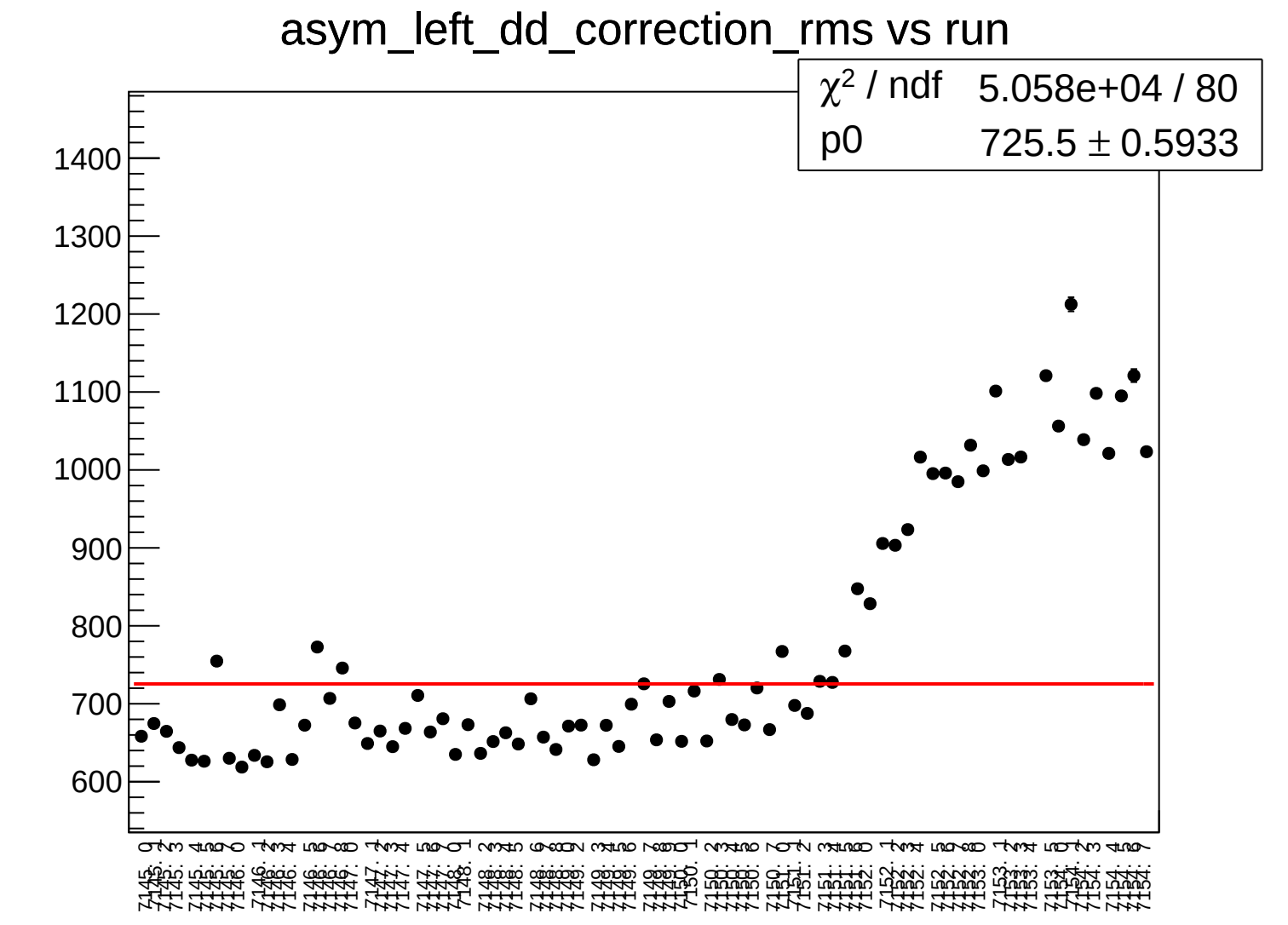

reg_asym_left_dd_mean vs run
χ² / ndf 88.97 / 80
p0 602 ± 645.6
pull
Entries 81
Mean 573.9
Std Dev 538.3

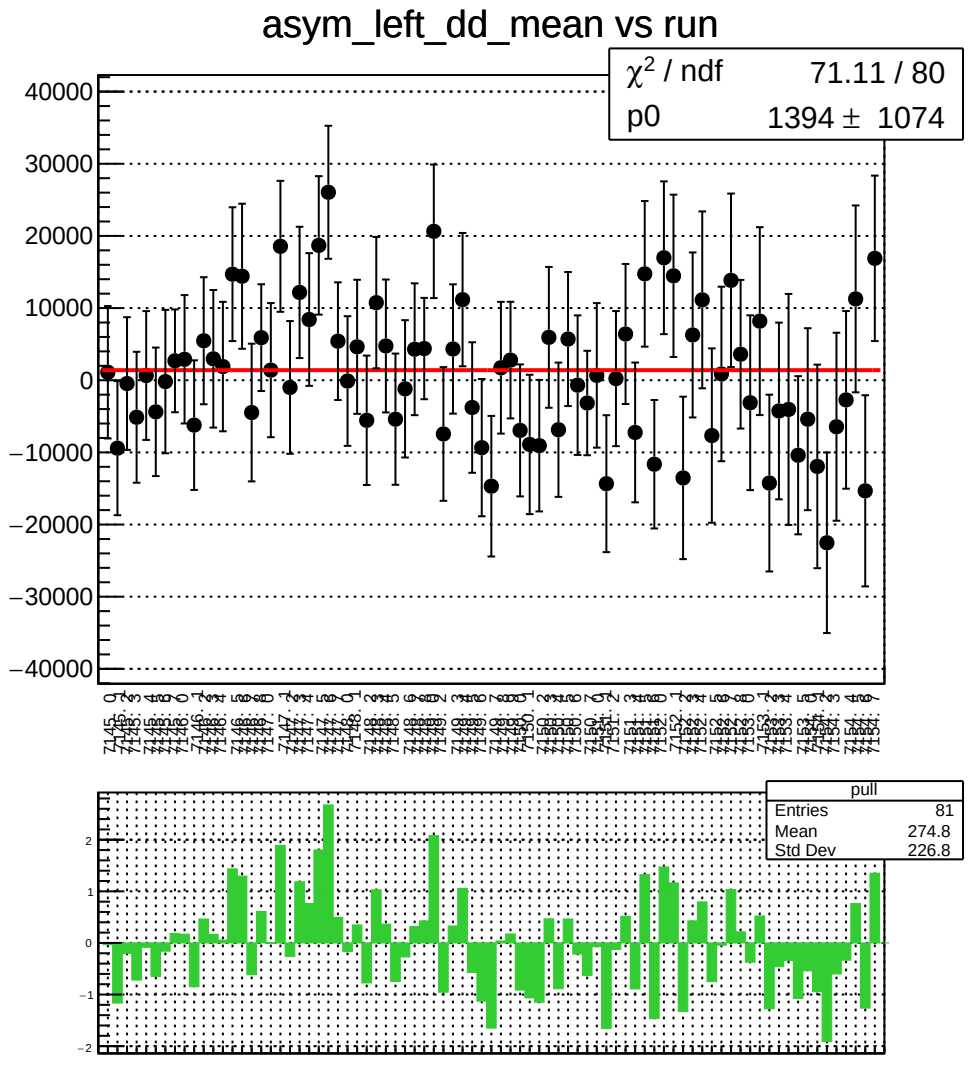

pull1D
Entries 81
Mean −0.003999
Std Dev 1.048

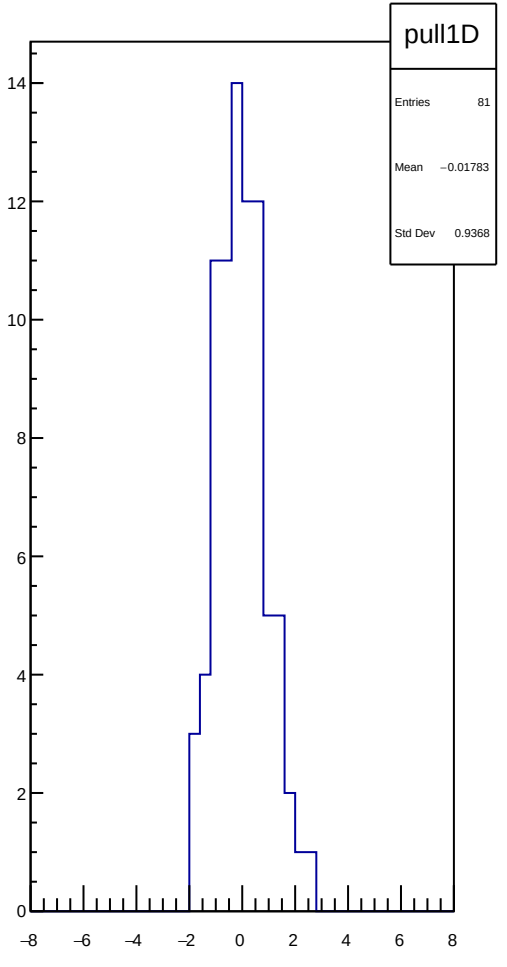

reg_asym_left_dd_rms vs run
χ² / ndf 133.7 / 80
p0 567.6 ± 0.4565
600
590
580
570
560
550

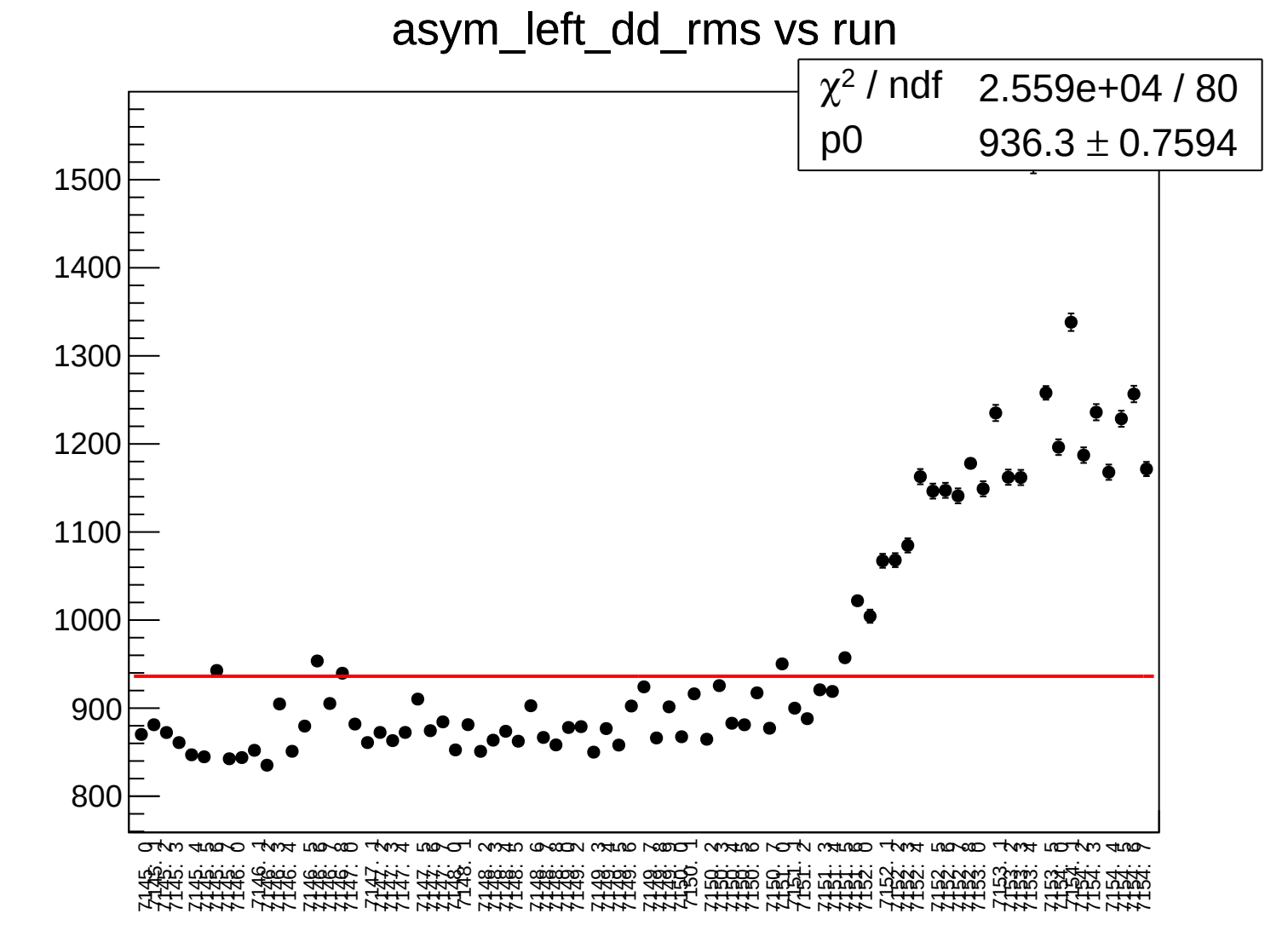

asym_left_dd_correction_mean vs run
χ² / ndf 63.61 / 80
p0 −885.7 ± 839.1
pull
Entries 81
Mean 175.8
Std Dev 120.7

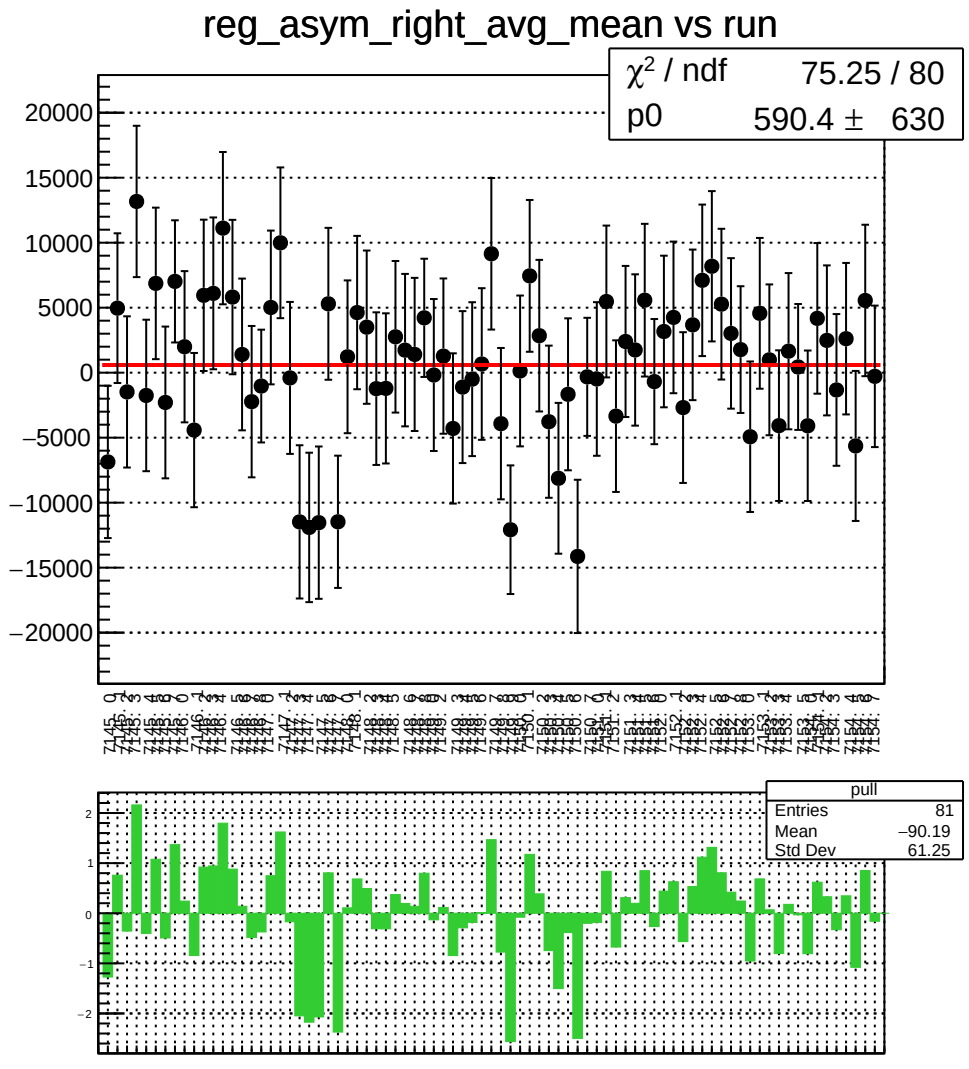

pull1D
Entries 81
Mean 0.02473
Std Dev 0.8858

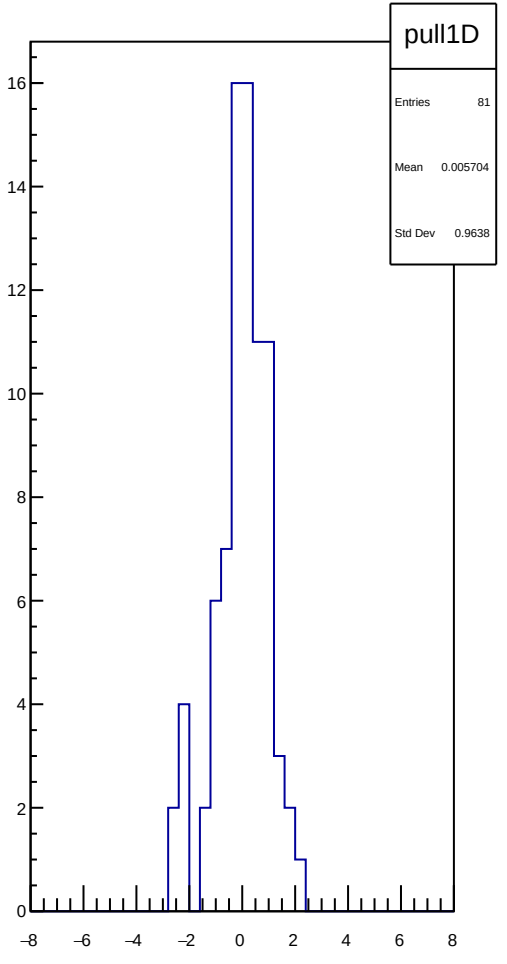

asym_left_dd_correction_rms vs run
χ² / ndf 5.058e+04 / 80
p0 725.5 ± 0.5933
1400
1300
1200
1100
1000
900
800
700
600

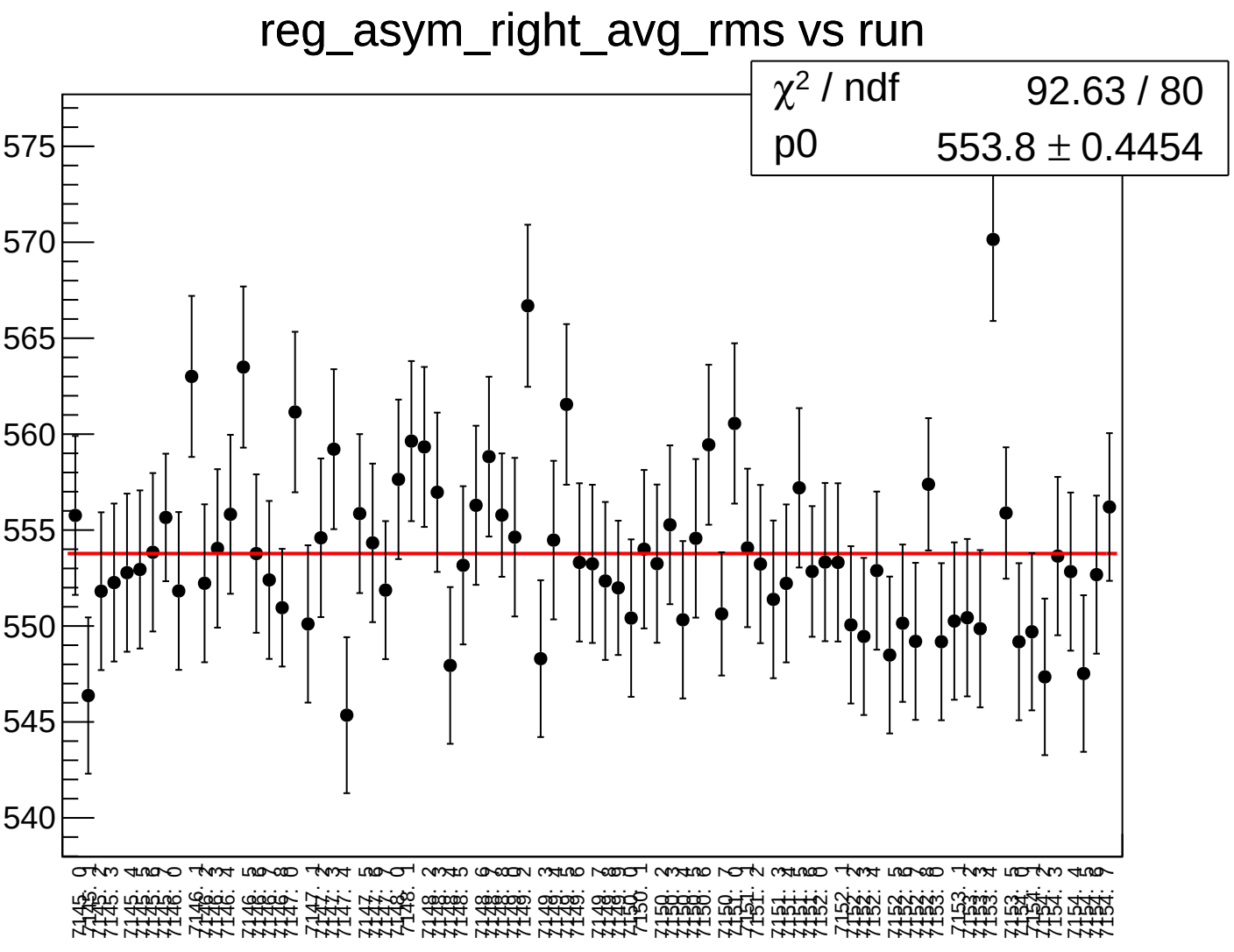

asym_left_dd_mean vs run
χ² / ndf 71.11 / 80
p0 1394 ± 1074
pull
Entries 81
Mean 274.8
Std Dev 226.8

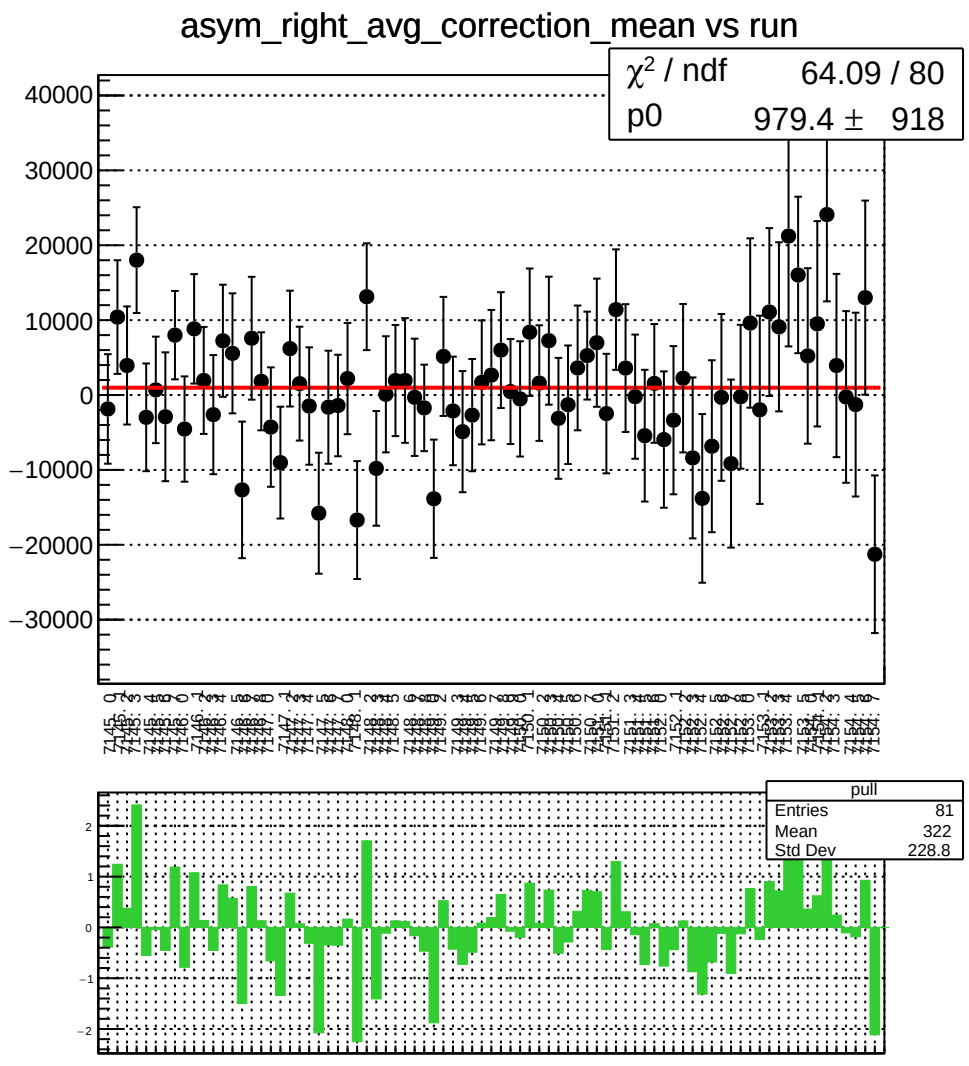

pull1D
Entries 81
Mean −0.01783
Std Dev 0.9368

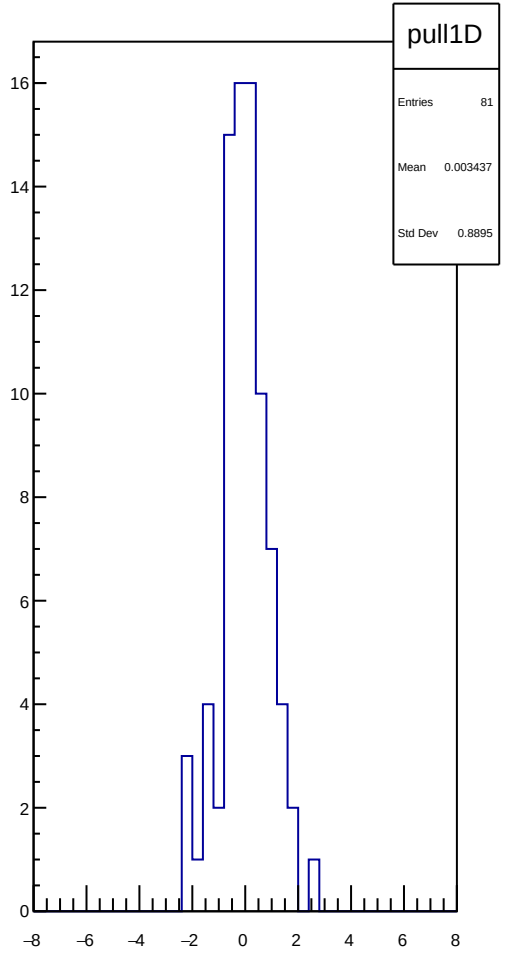

asym_left_dd_rms vs run
χ² / ndf 2.559e+04 / 80
p0 936.3 ± 0.7594
1500
1400
1300
1200
1100
1000
900
800

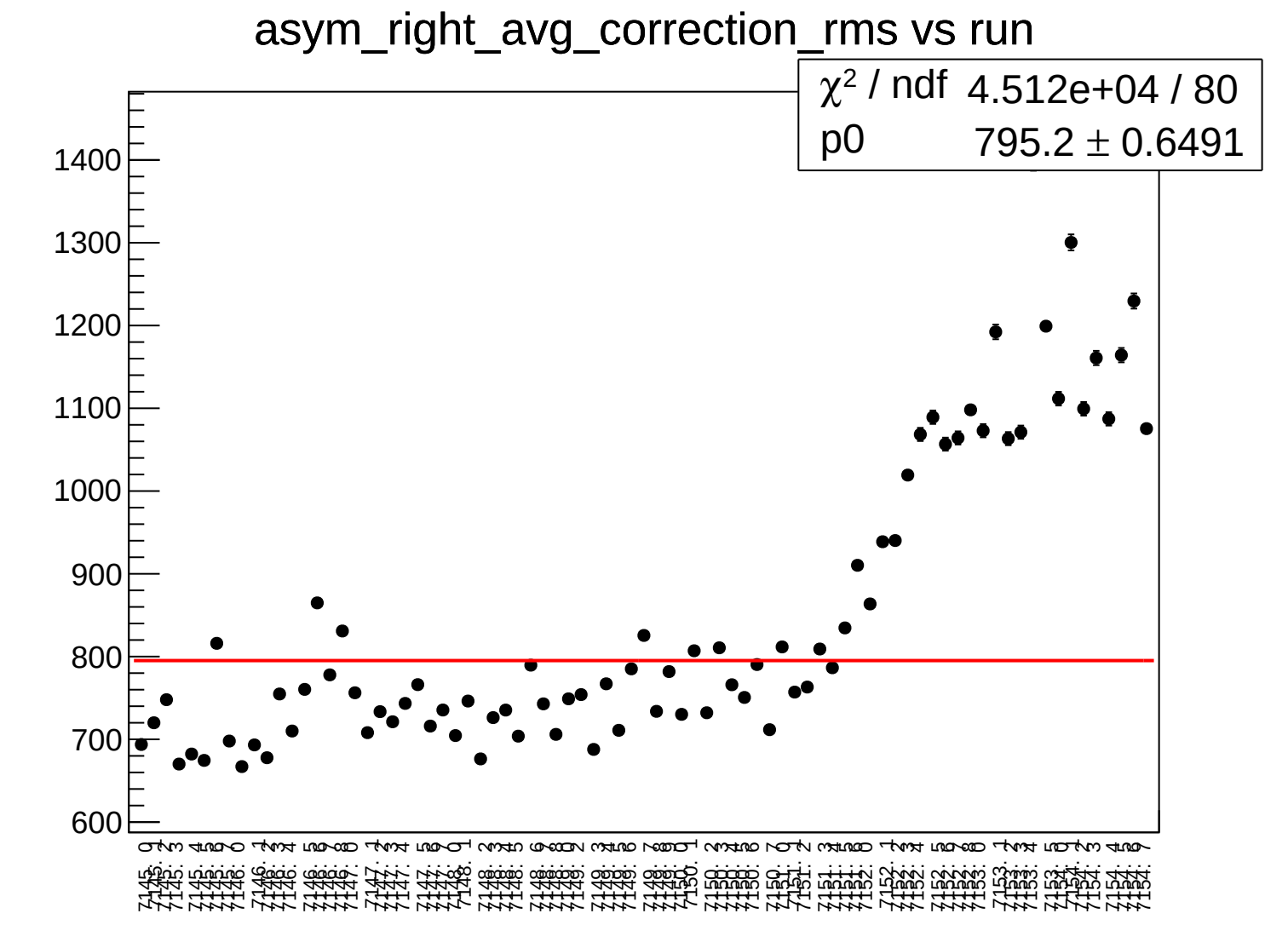

reg_asym_right_avg_mean vs run
χ² / ndf 75.25 / 80
p0 590.4 ± 630
pull
Entries 81
Mean −90.19
Std Dev 61.25

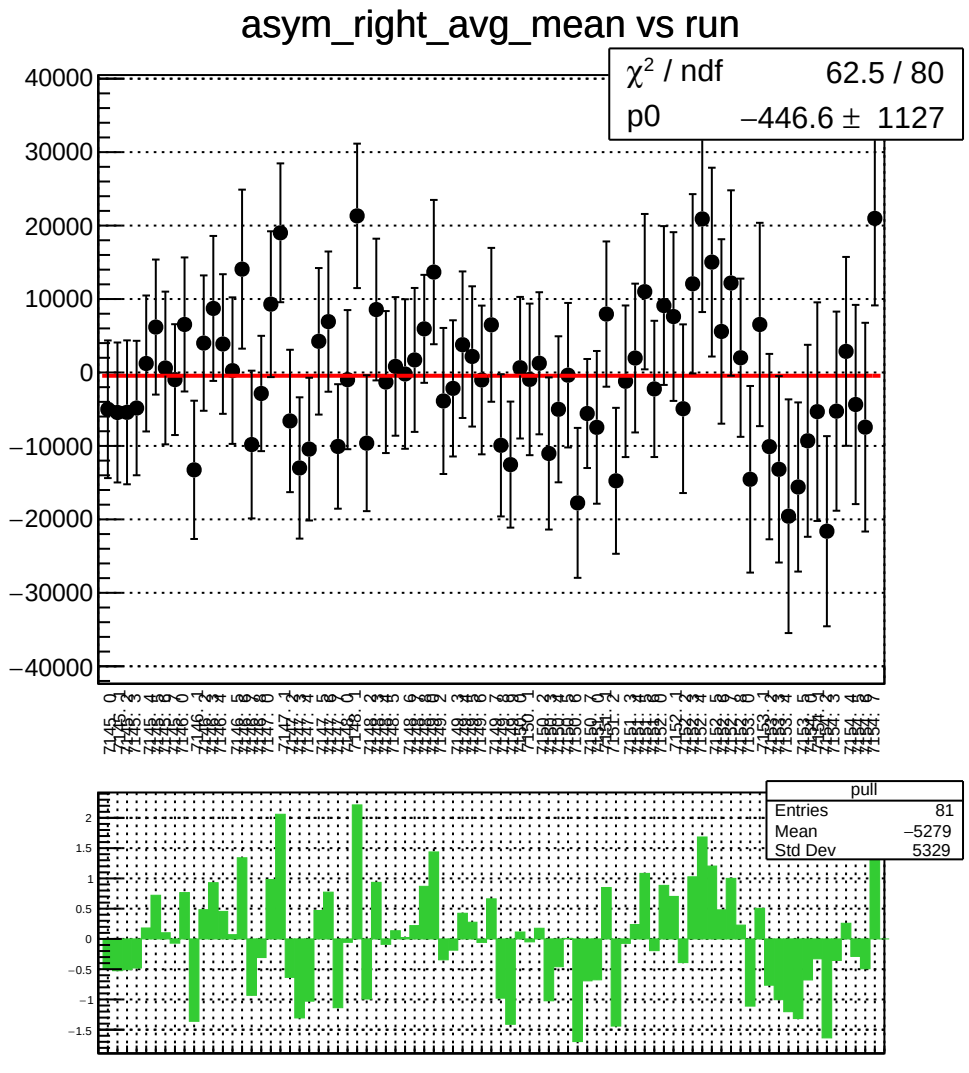

pull1D
Entries 81
Mean 0.005704
Std Dev 0.9638

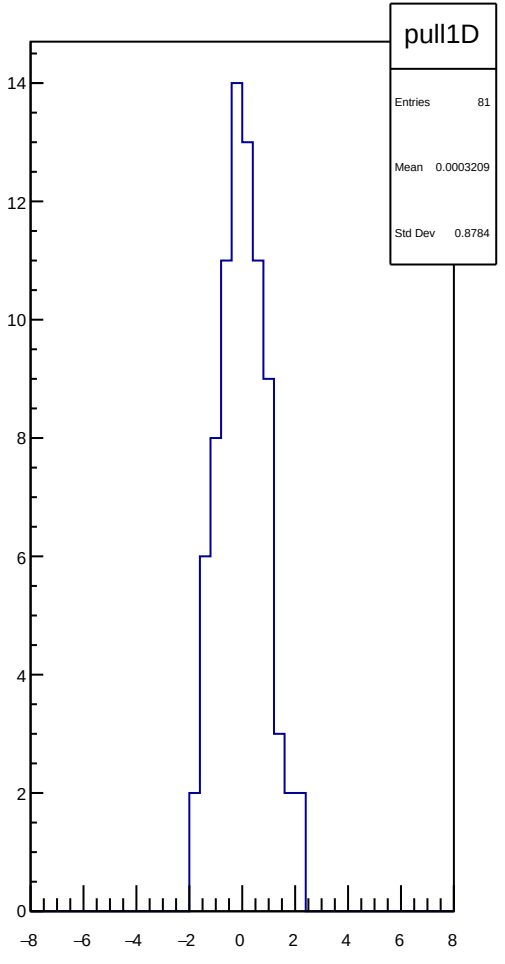

reg_asym_right_avg_rms vs run
χ^2 / ndf 92.63 / 80
p0 553.8 ± 0.4454
575
570
565
560
555
550
545
540

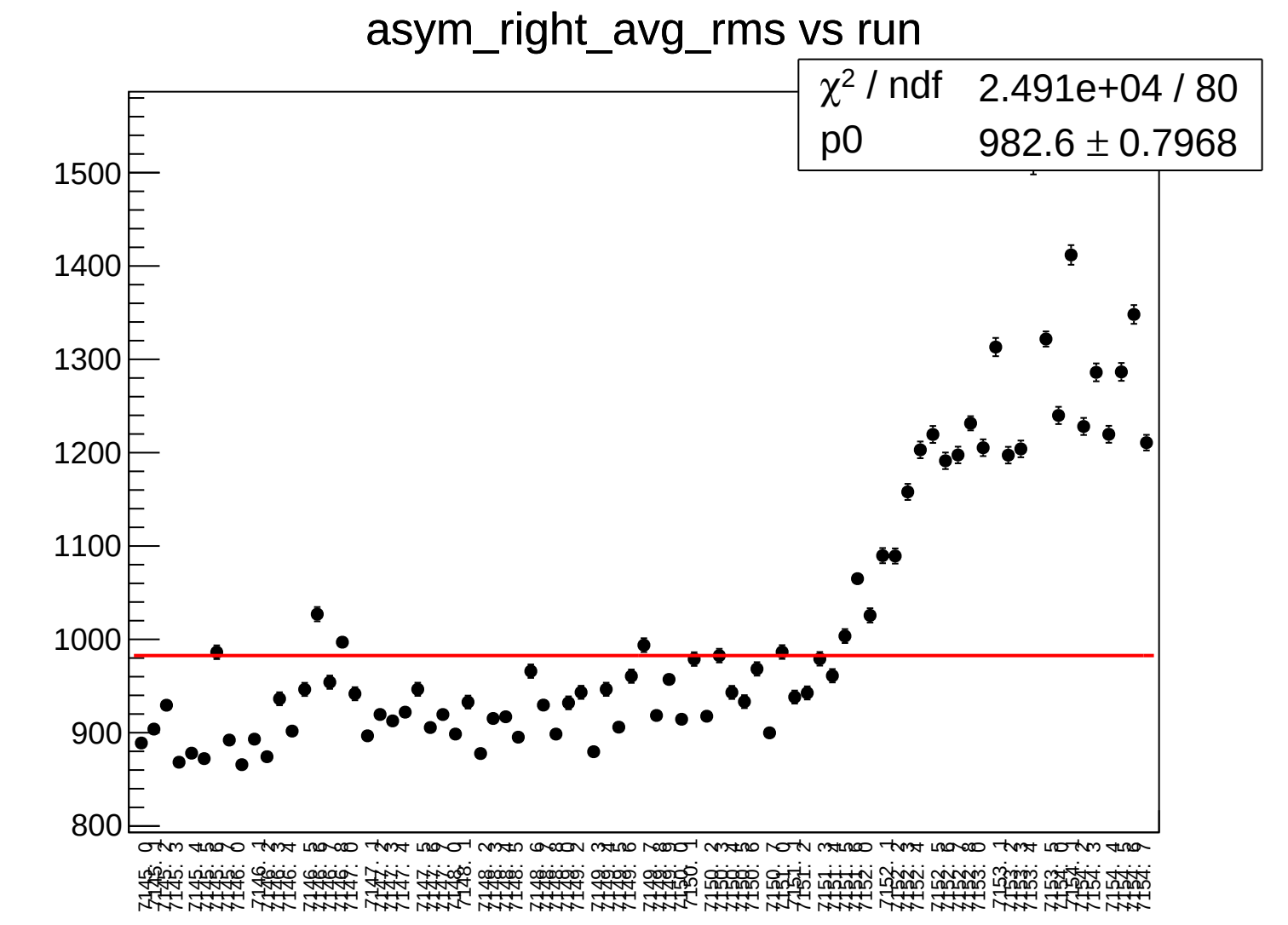

asym_right_avg_correction_mean vs run
χ² / ndf 64.09 / 80
p0 979.4 ± 918
pull
Entries 81
Mean 322
Std Dev 228.8

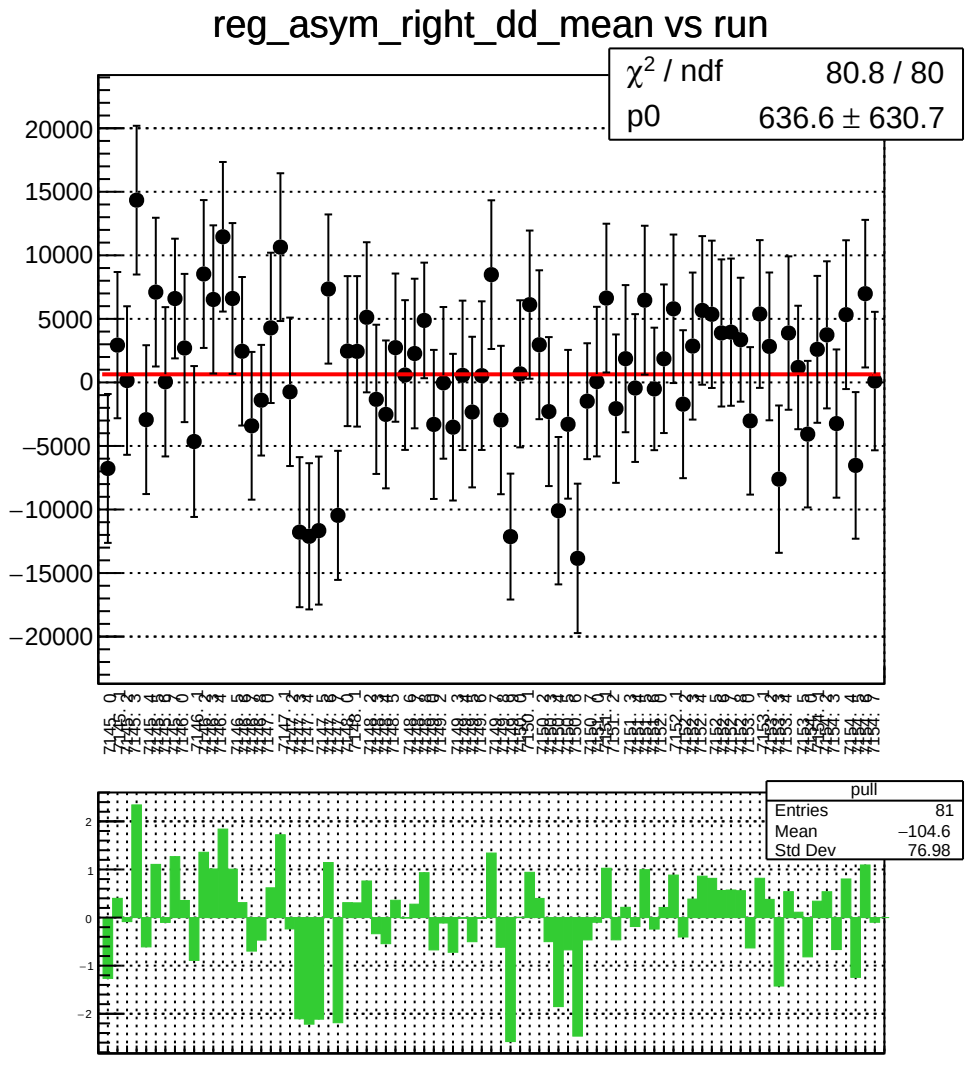

pull1D
Entries 81
Mean 0.003437
Std Dev 0.8895

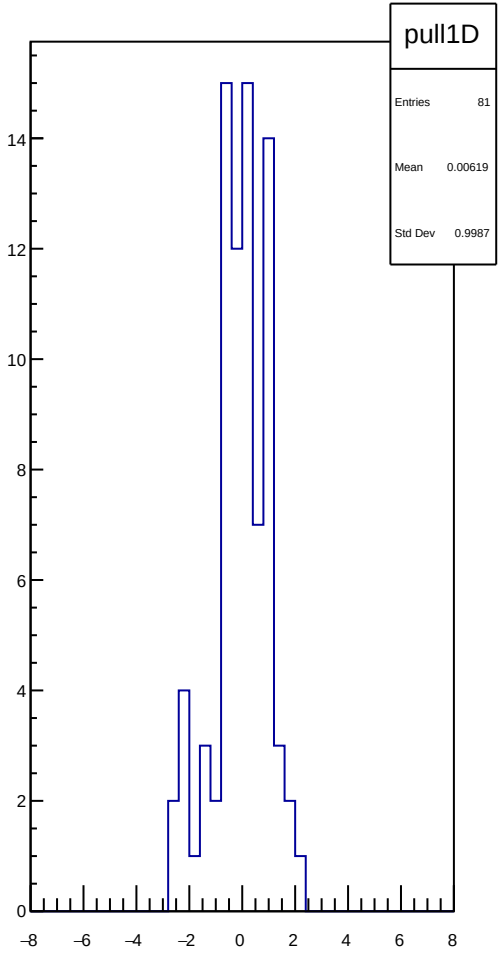

asym_right_avg_correction_rms vs run
χ² / ndf 4.512e+04 / 80
p0 795.2 ± 0.6491
1400
1300
1200
1100
1000
900
800
700
600

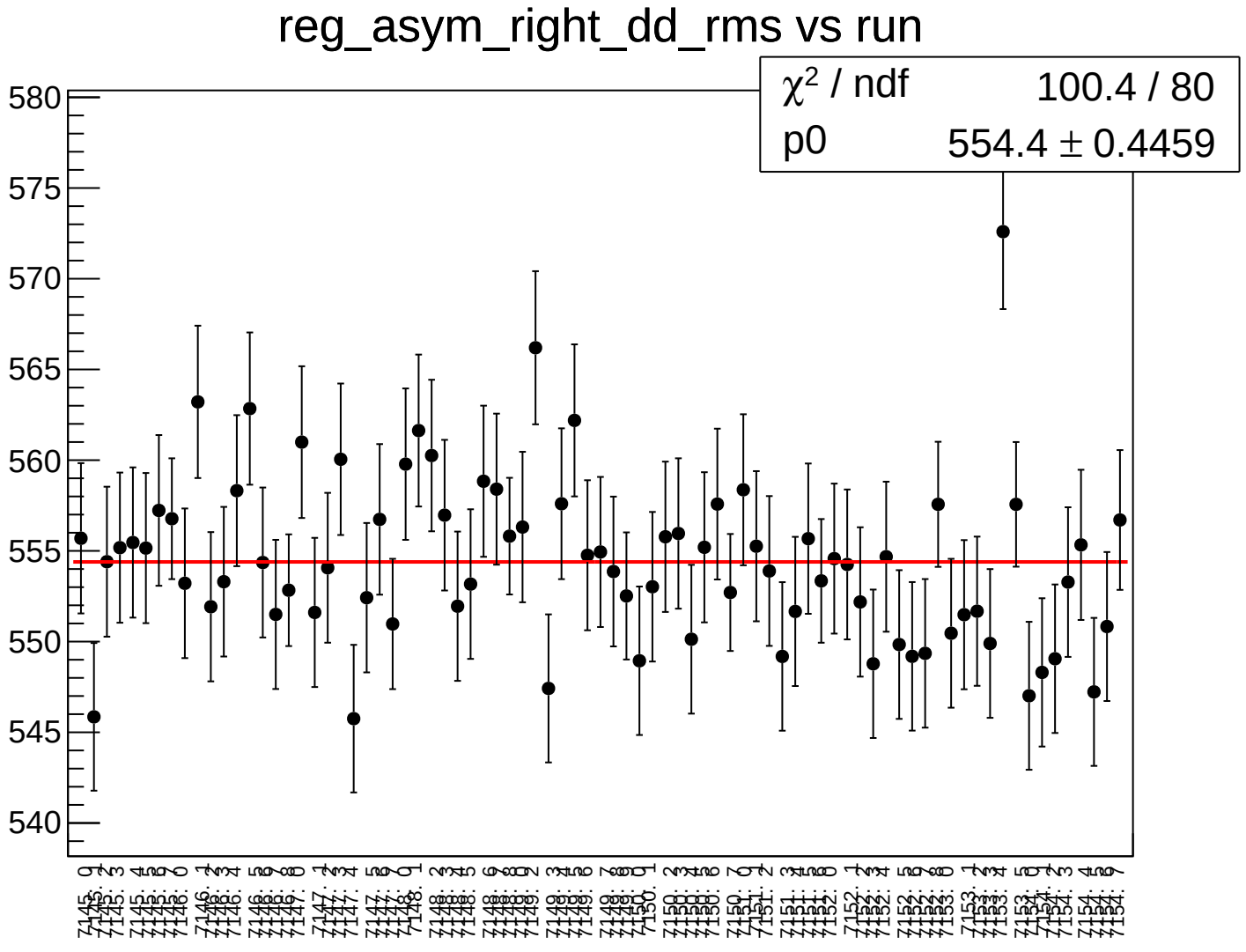

asym_right_avg_mean vs run
χ² / ndf 62.5 / 80
p0 −446.6 ± 1127
pull
Entries 81
Mean −5279
Std Dev 5329

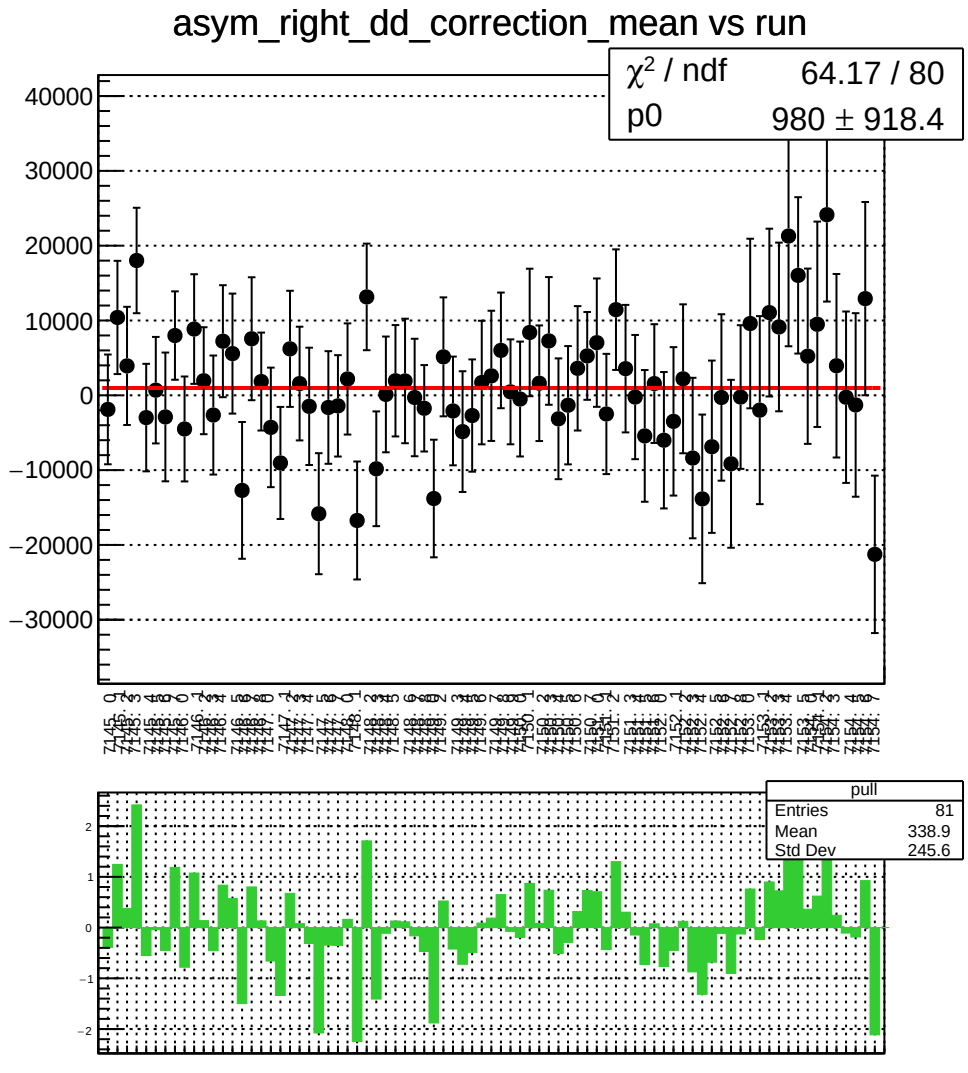

pull1D
Entries 81
Mean 0.0003209
Std Dev 0.8784

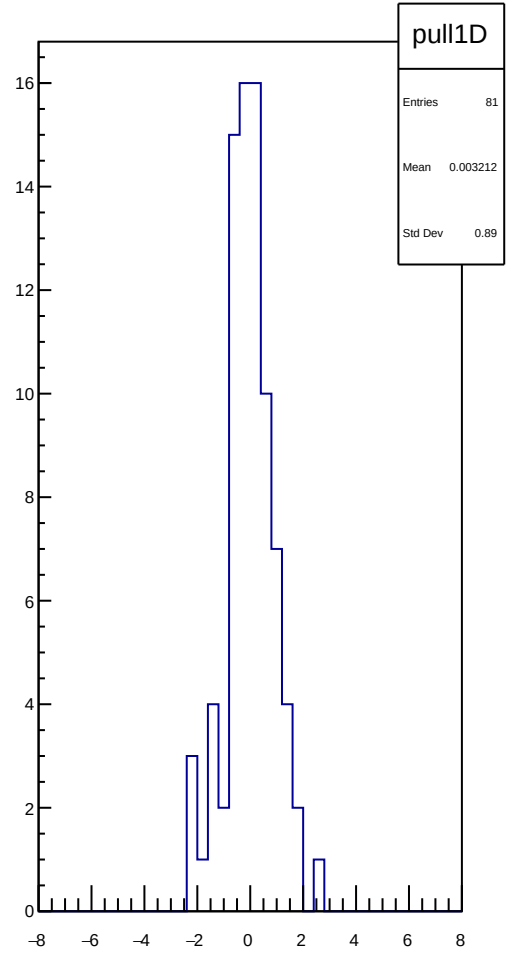

asym_right_avg_rms vs run
χ² / ndf 2.491e+04 / 80
p0 982.6 ± 0.7968
1500
1400
1300
1200
1100
1000
900
800

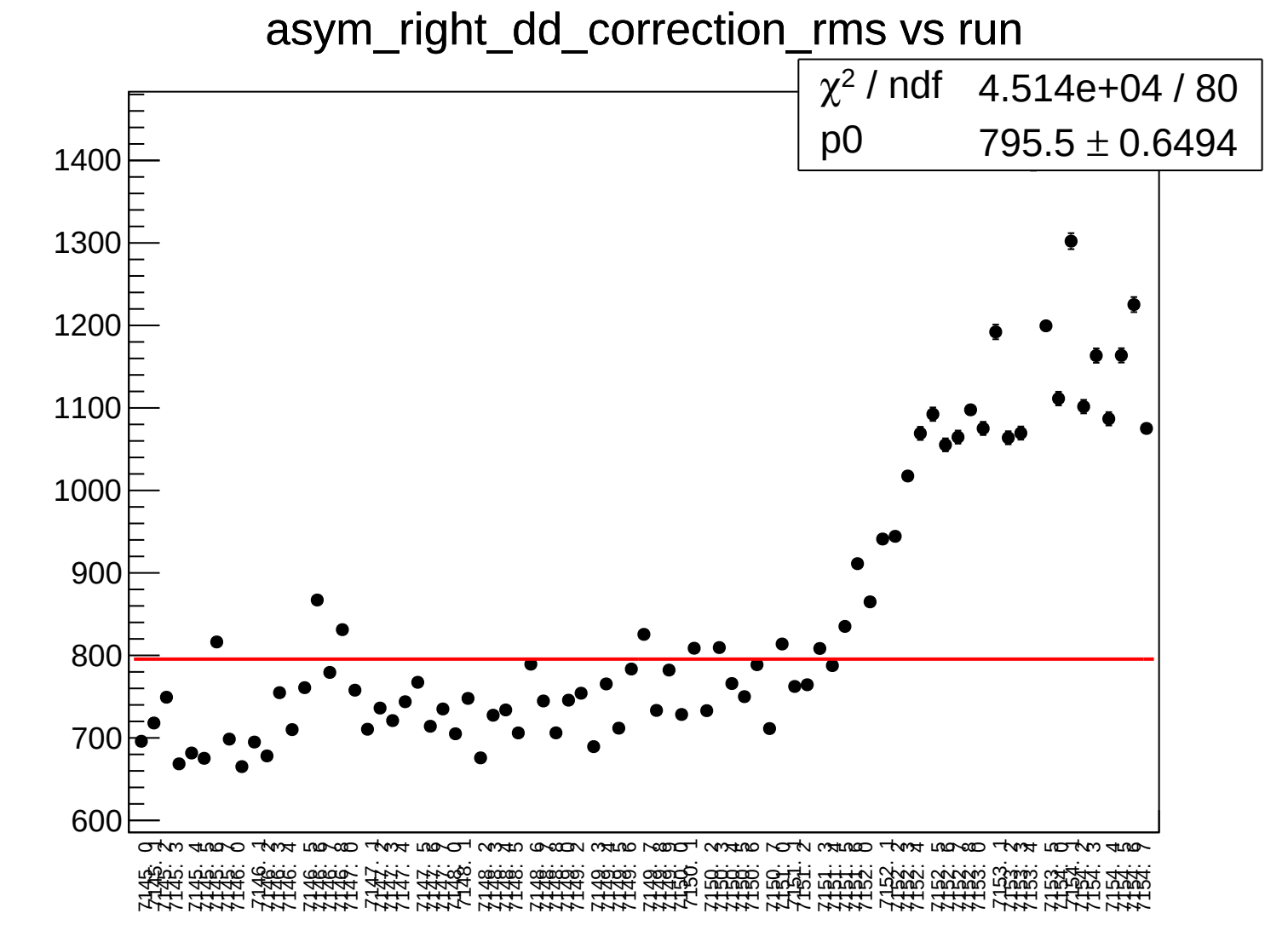

reg_asym_right_dd_mean vs run
χ² / ndf 80.8 / 80
p0 636.6 ± 630.7
pull
Entries 81
Mean −104.6
Std Dev 76.98

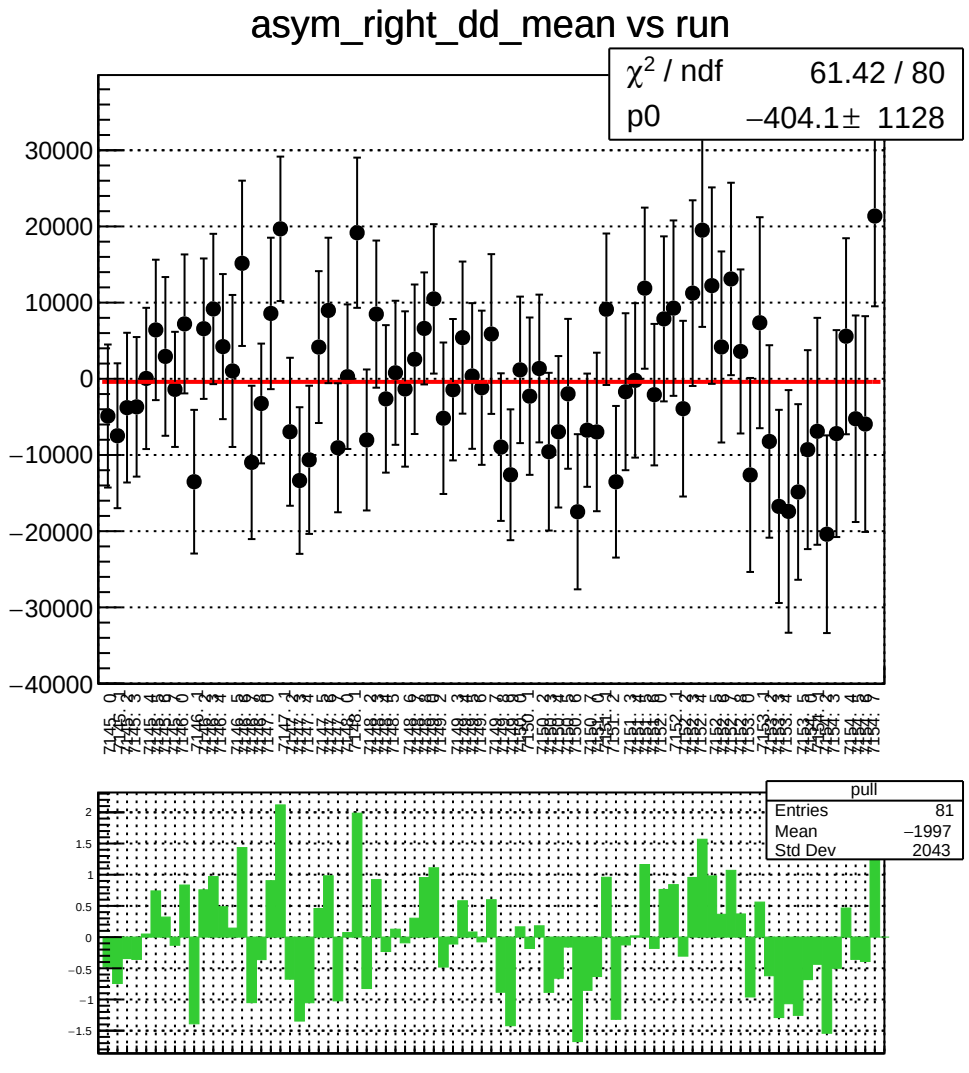

pull1D
Entries 81
Mean 0.00619
Std Dev 0.9987

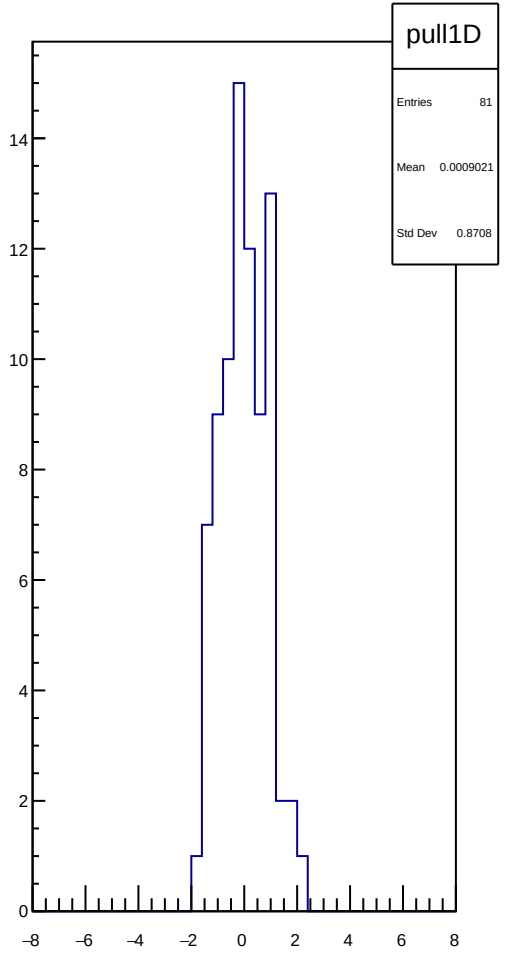

reg_asym_right_dd_rms vs run
χ² / ndf 100.4 / 80
p0 554.4 ± 0.4459
580
575
570
565
560
555
550
545
540

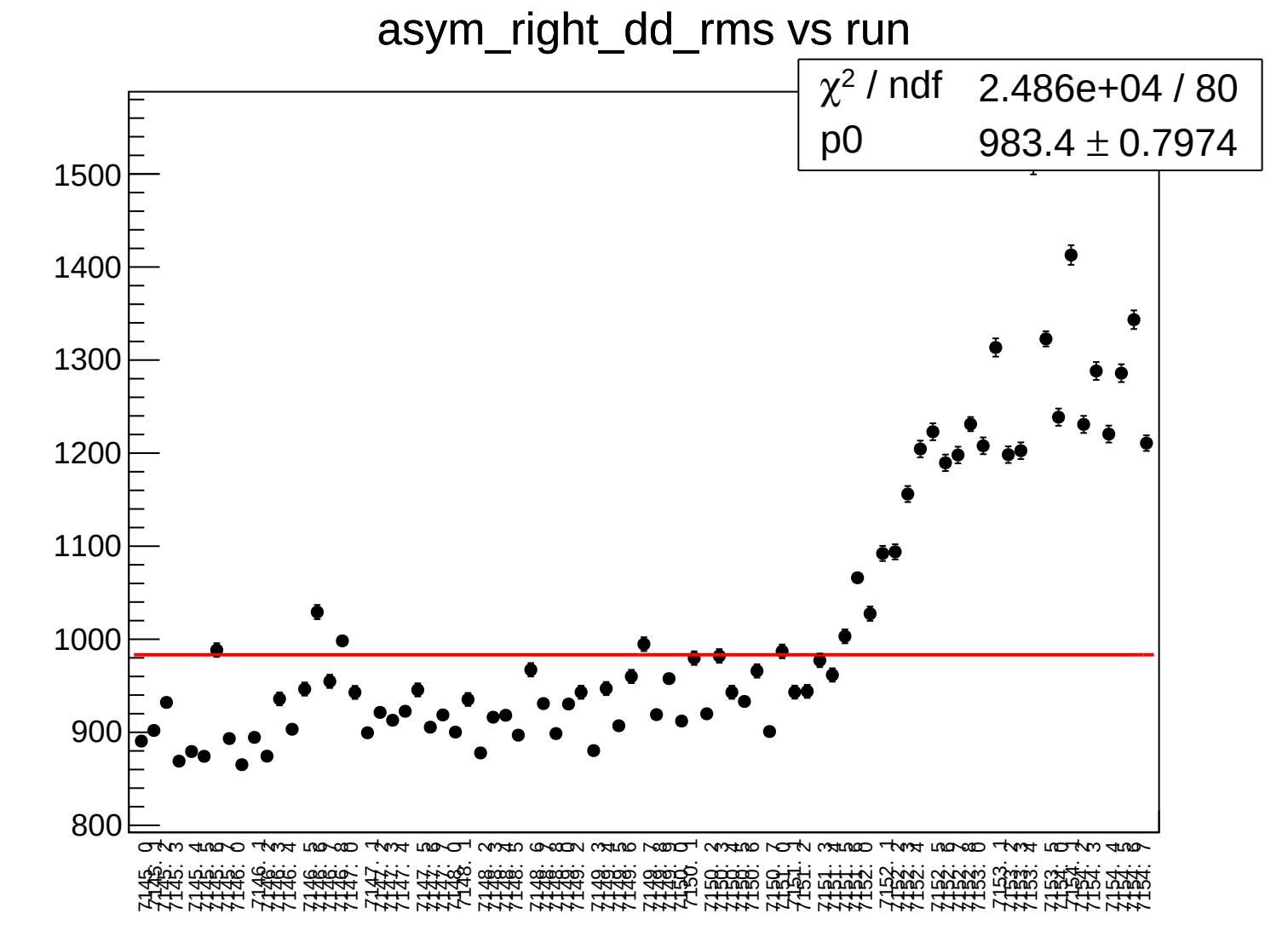

asym_right_dd_correction_mean vs run
χ² / ndf 64.17 / 80
p0 980 ± 918.4
pull
Entries 81
Mean 338.9
Std Dev 245.6

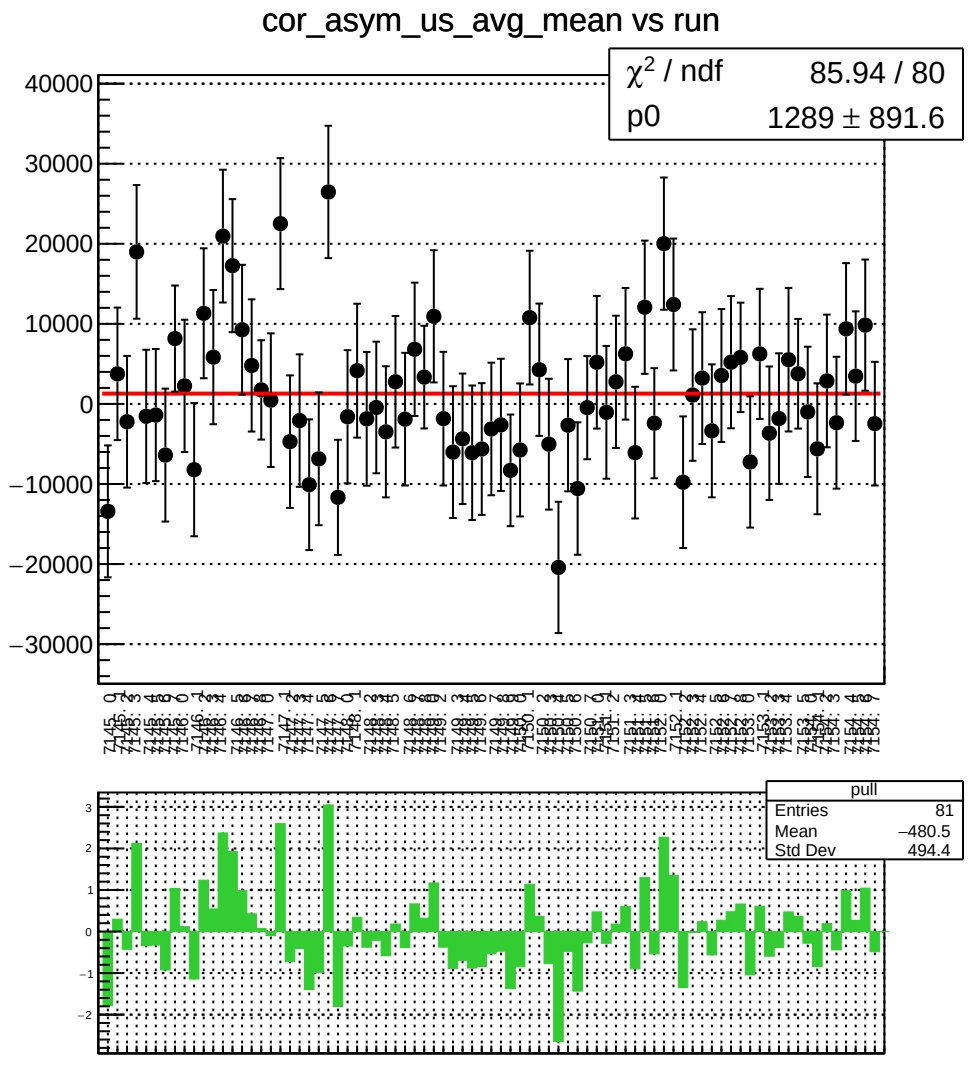

pull1D
Entries 81
Mean 0.003212
Std Dev 0.89

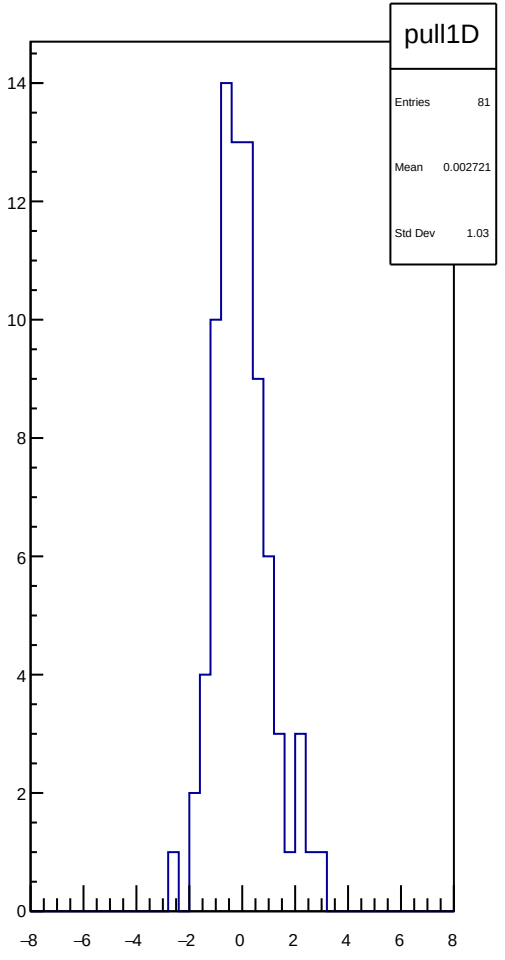

asym_right_dd_correction_rms vs run
χ² / ndf 4.514e+04 / 80
p0 795.5 ± 0.6494
1400
1300
1200
1100
1000
900
800
700
600

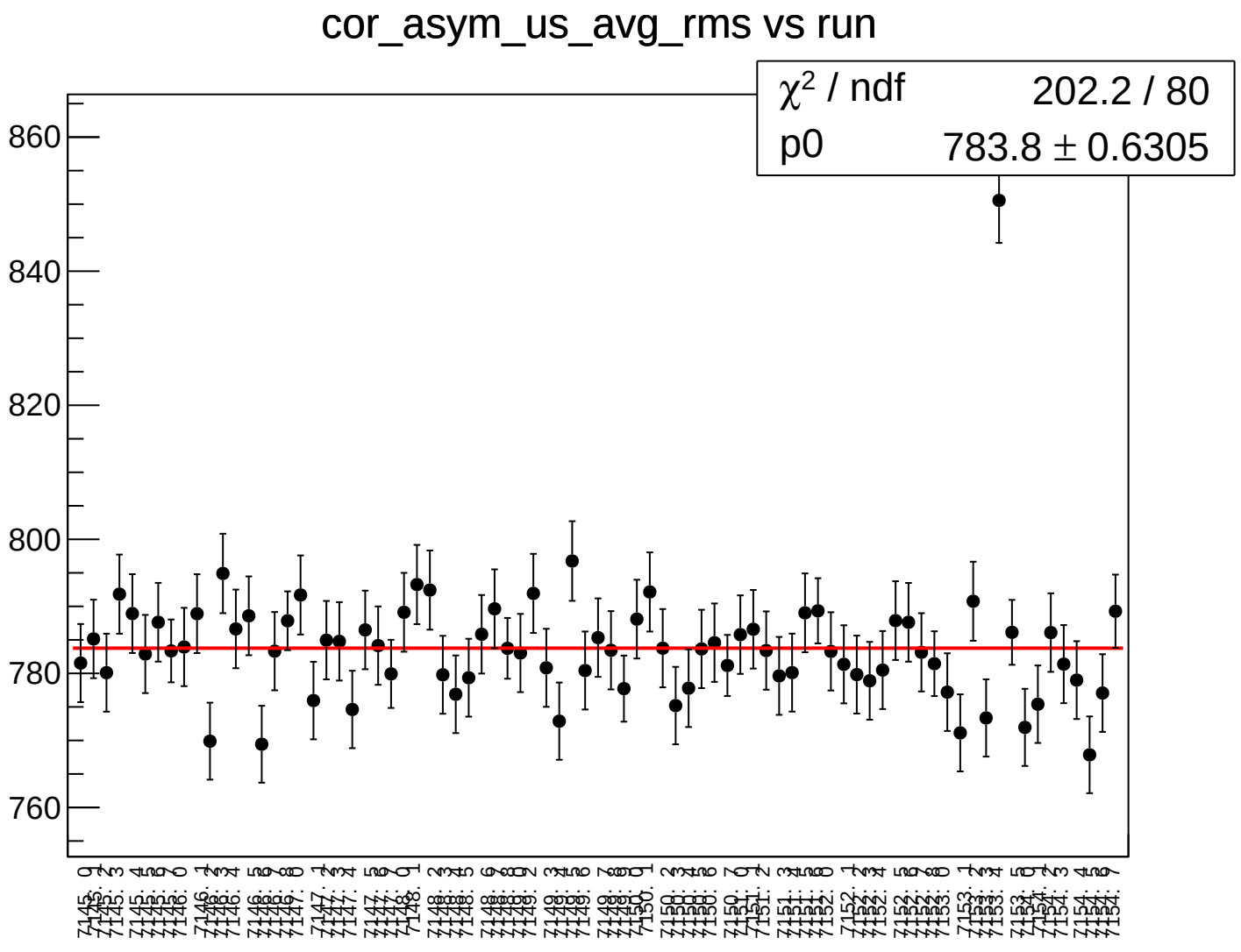

asym_right_dd_mean vs run
χ² / ndf 61.42 / 80
p0 −404.1± 1128
pull
Entries 81
Mean −1997
Std Dev 2043

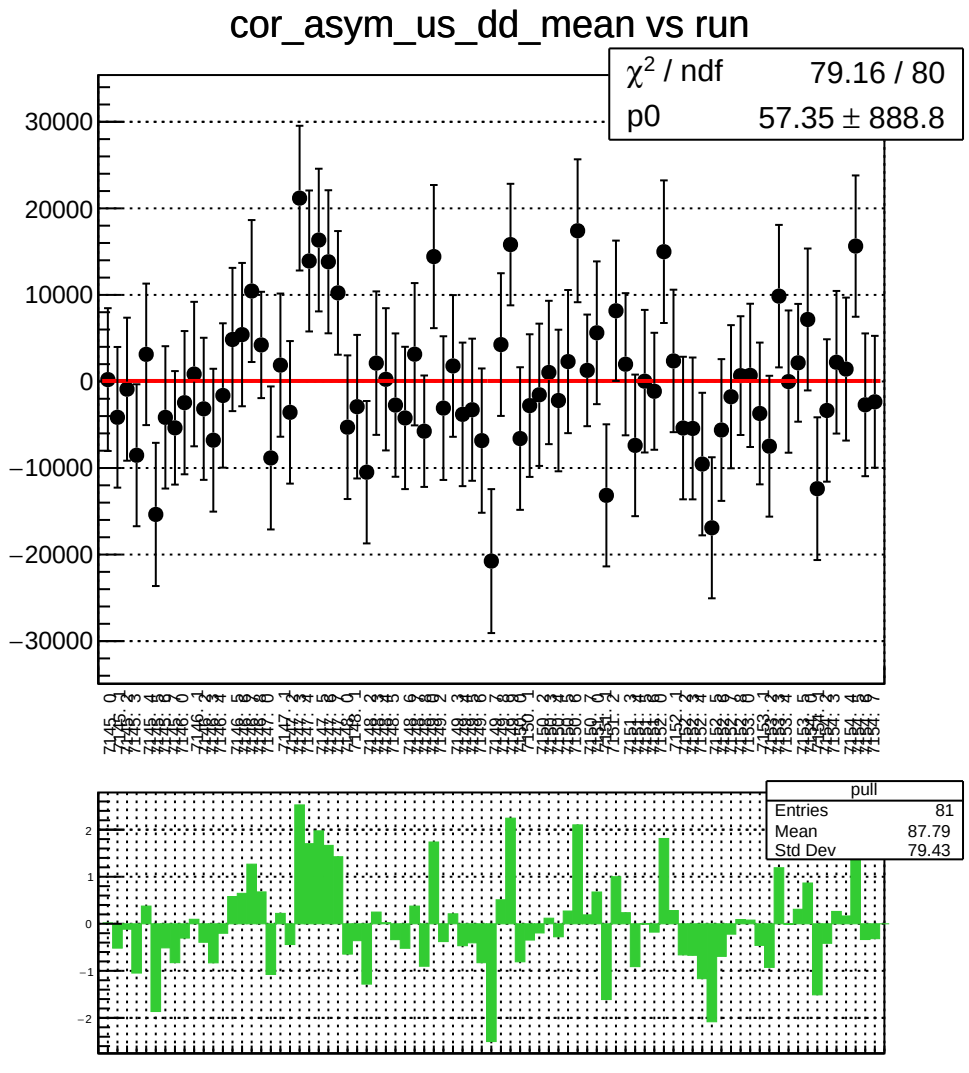

pull1D
Entries 81
Mean 0.0009021
Std Dev 0.8708

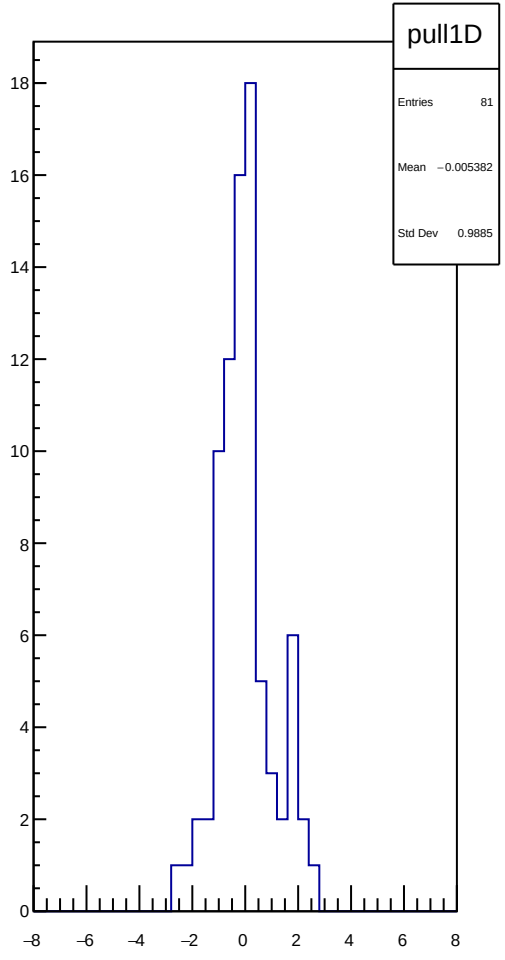

asym_right_dd_rms vs run
χ² / ndf 2.486e+04 / 80
p0 983.4 ± 0.7974
1500
1400
1300
1200
1100
1000
900
800

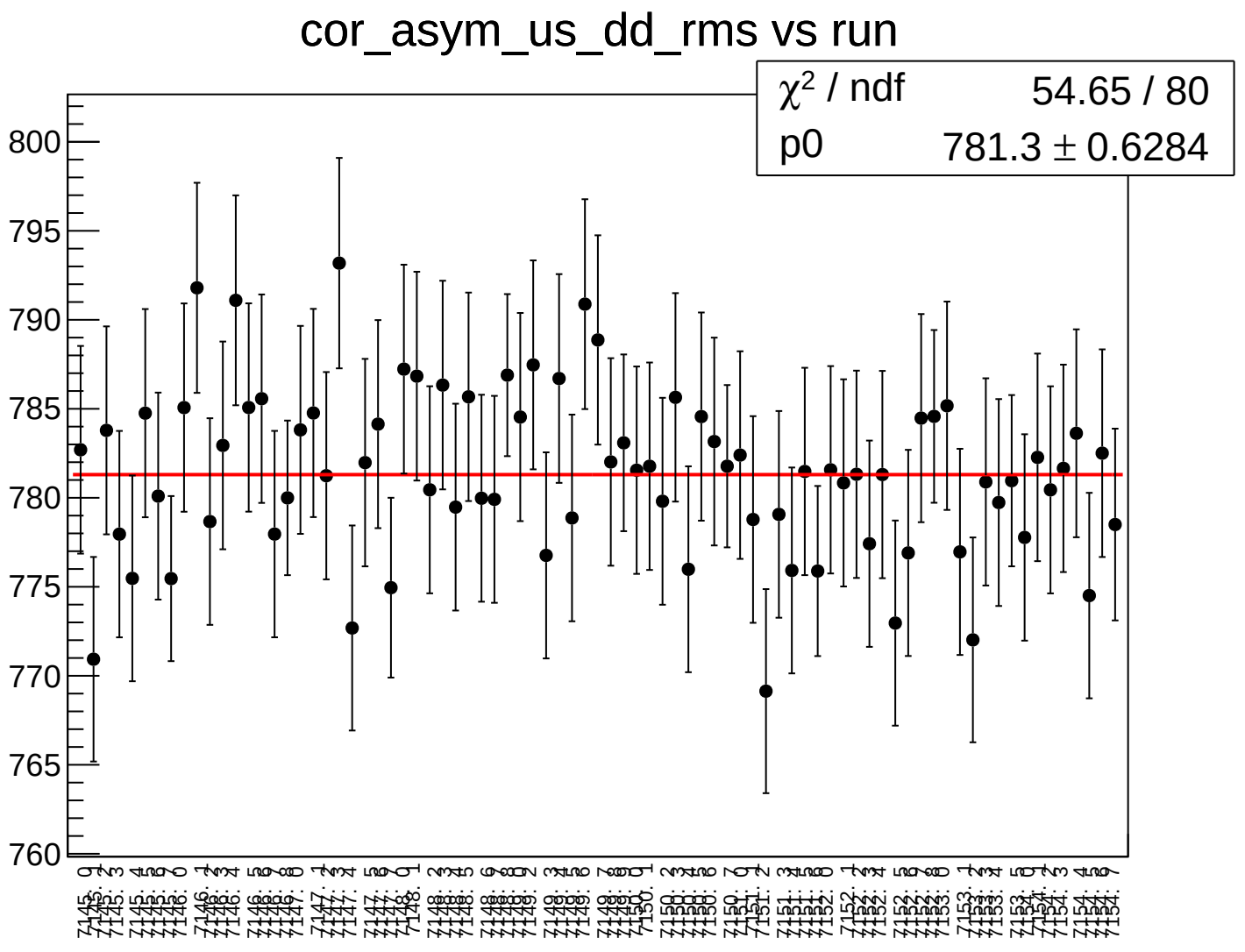

cor_asym_us_avg_mean vs run
χ² / ndf 85.94 / 80
p0 1289 ± 891.6
pull
Entries 81
Mean −480.5
Std Dev 494.4

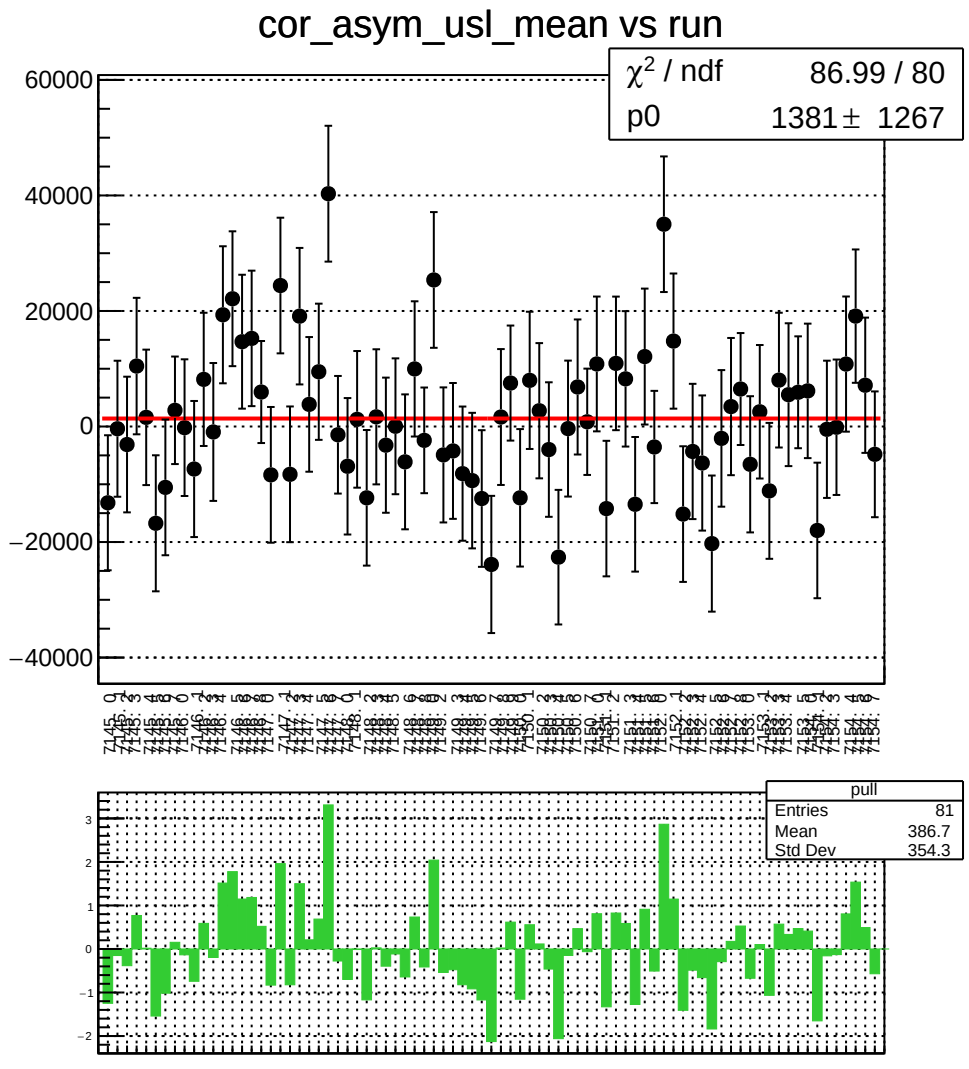

pull1D
Entries 81
Mean 0.002721
Std Dev 1.03

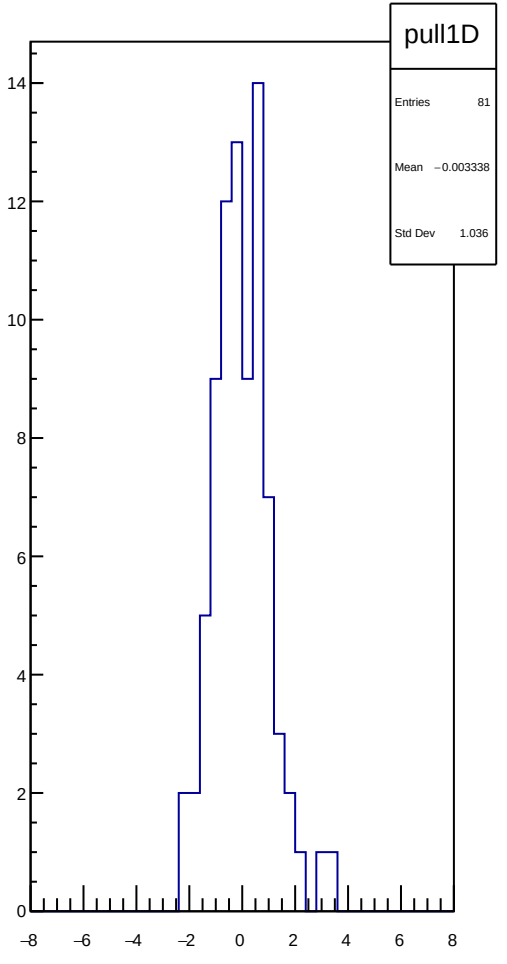

cor_asym_us_avg_rms vs run
χ² / ndf 202.2 / 80
p0 783.8 ± 0.6305
860
840
820
800
780
760

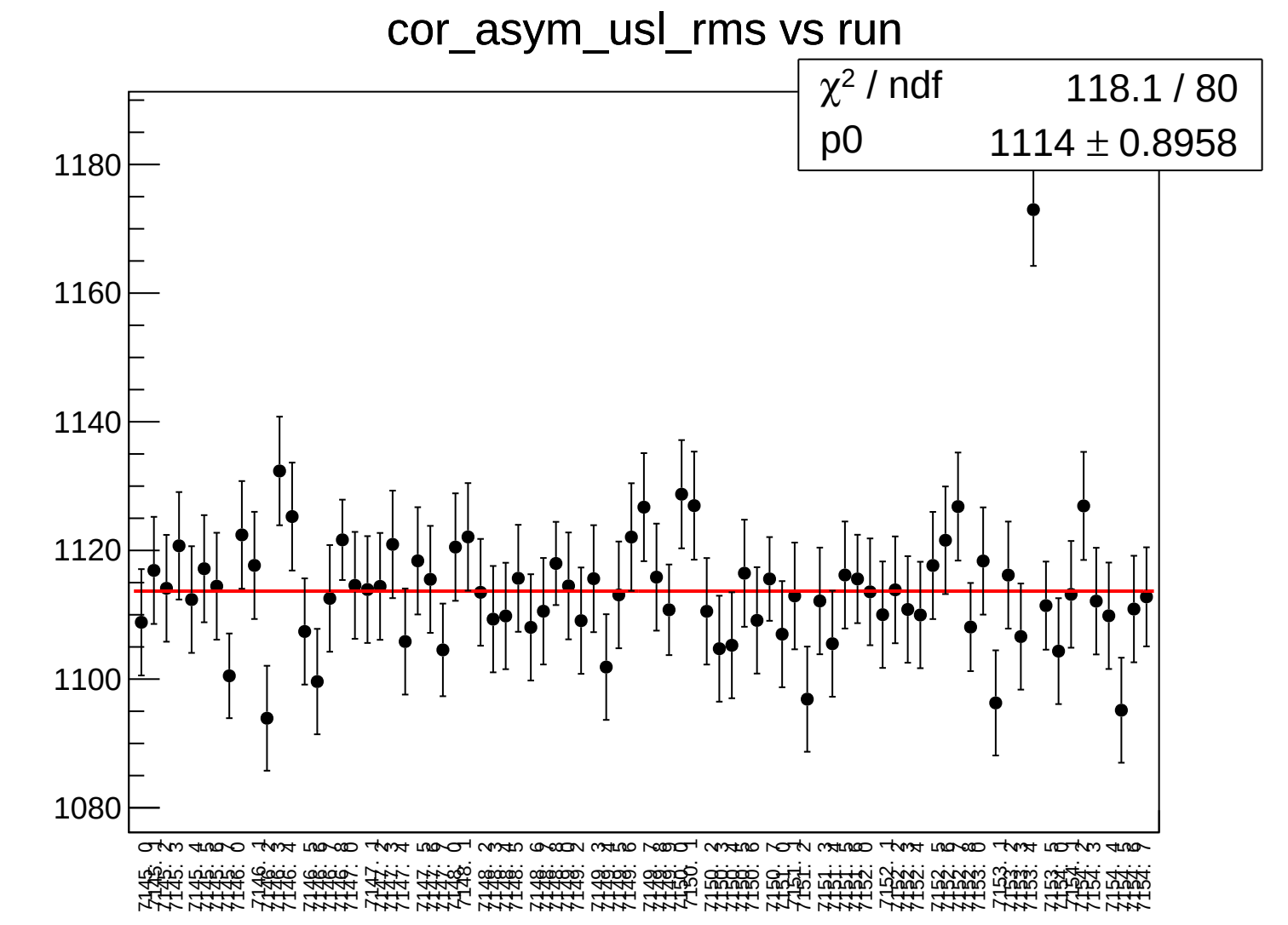

cor_asym_us_dd_mean vs run
χ² / ndf 79.16 / 80
p0 57.35 ± 888.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 87.79
Std Dev 79.43
2
1
0
−1
−2

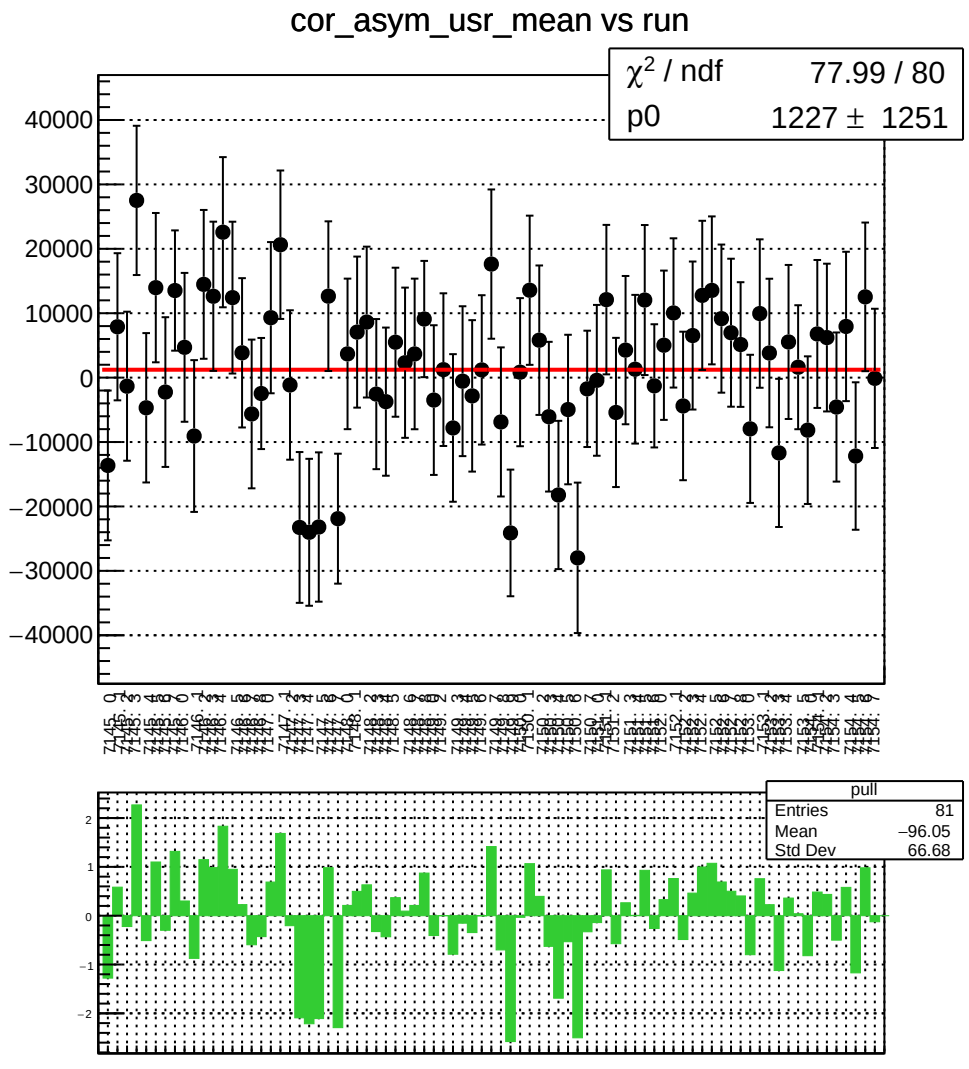

pull1D
Entries 81
Mean −0.005382
Std Dev 0.9885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

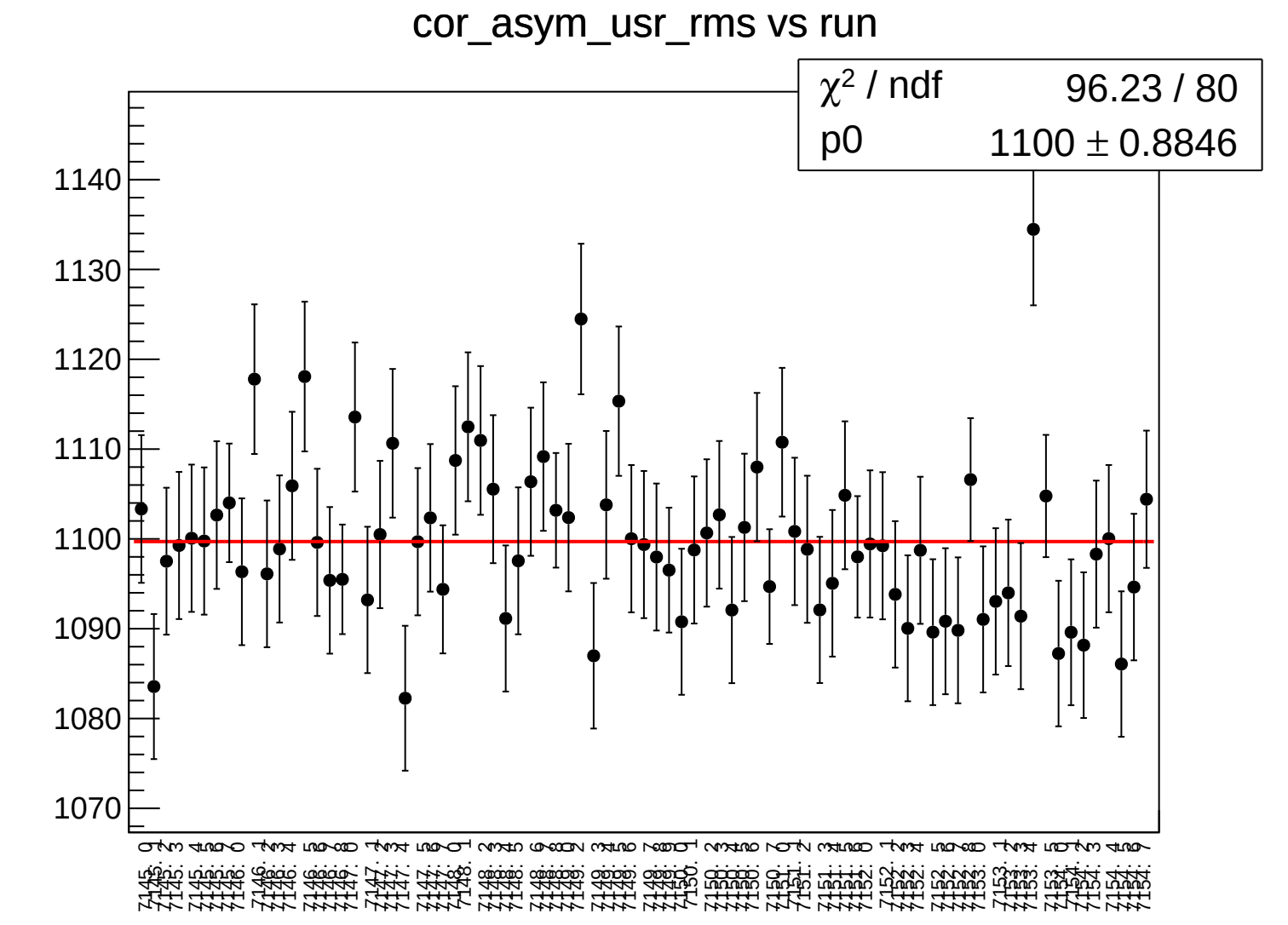

cor_asym_us_dd_rms vs run
χ² / ndf 54.65 / 80
p0 781.3 ± 0.6284
800
795
790
785
780
775
770
765
760

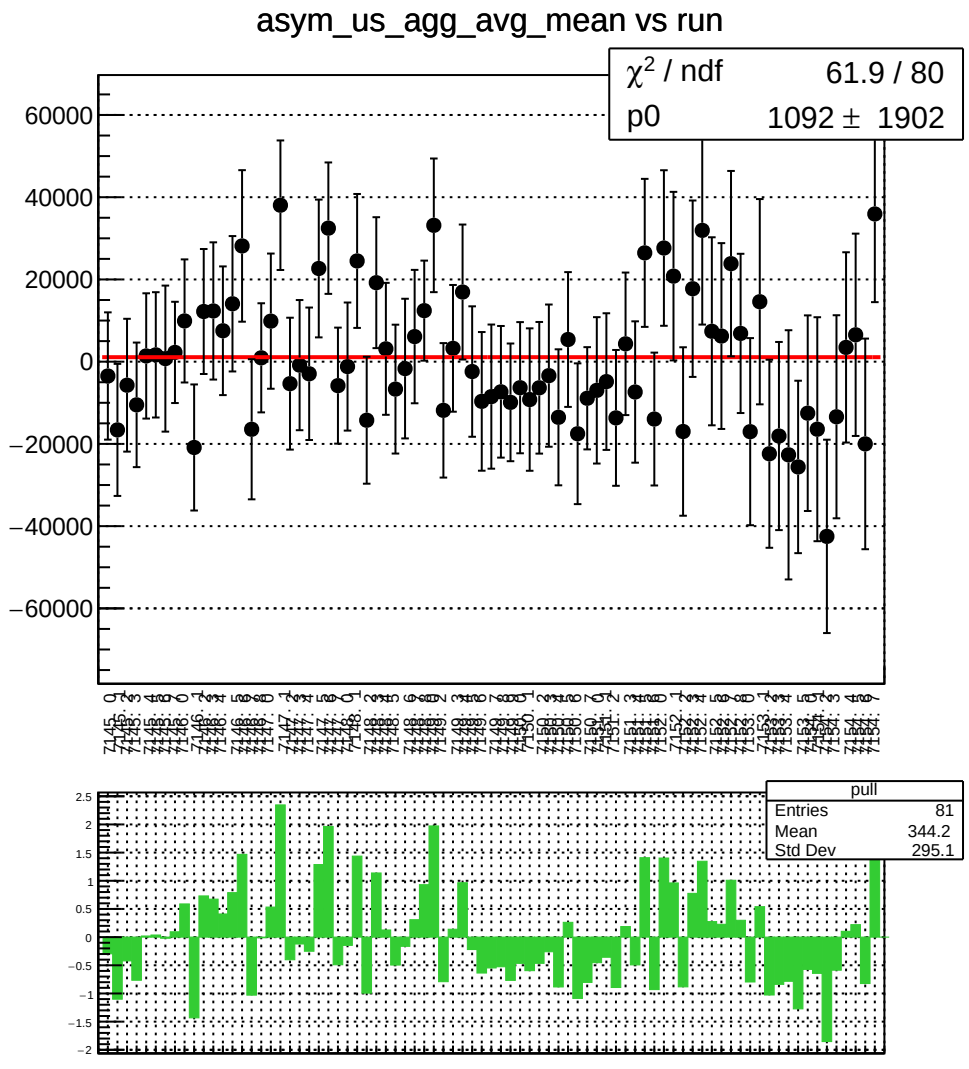

cor_asym_usl_mean vs run
χ² / ndf 86.99 / 80
p0 1381 ± 1267
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 386.7
Std Dev 354.3
3
2
1
0
−1
−2

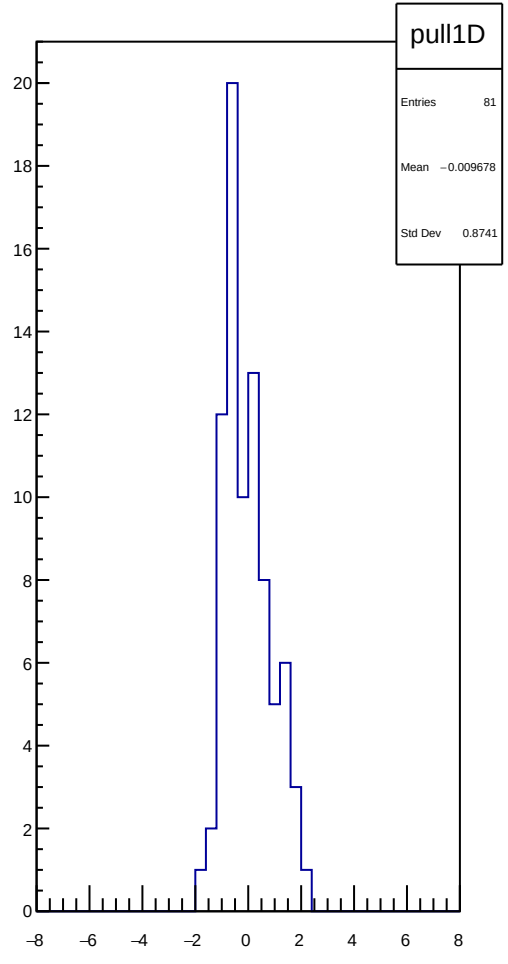

pull1D
Entries 81
Mean −0.003338
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

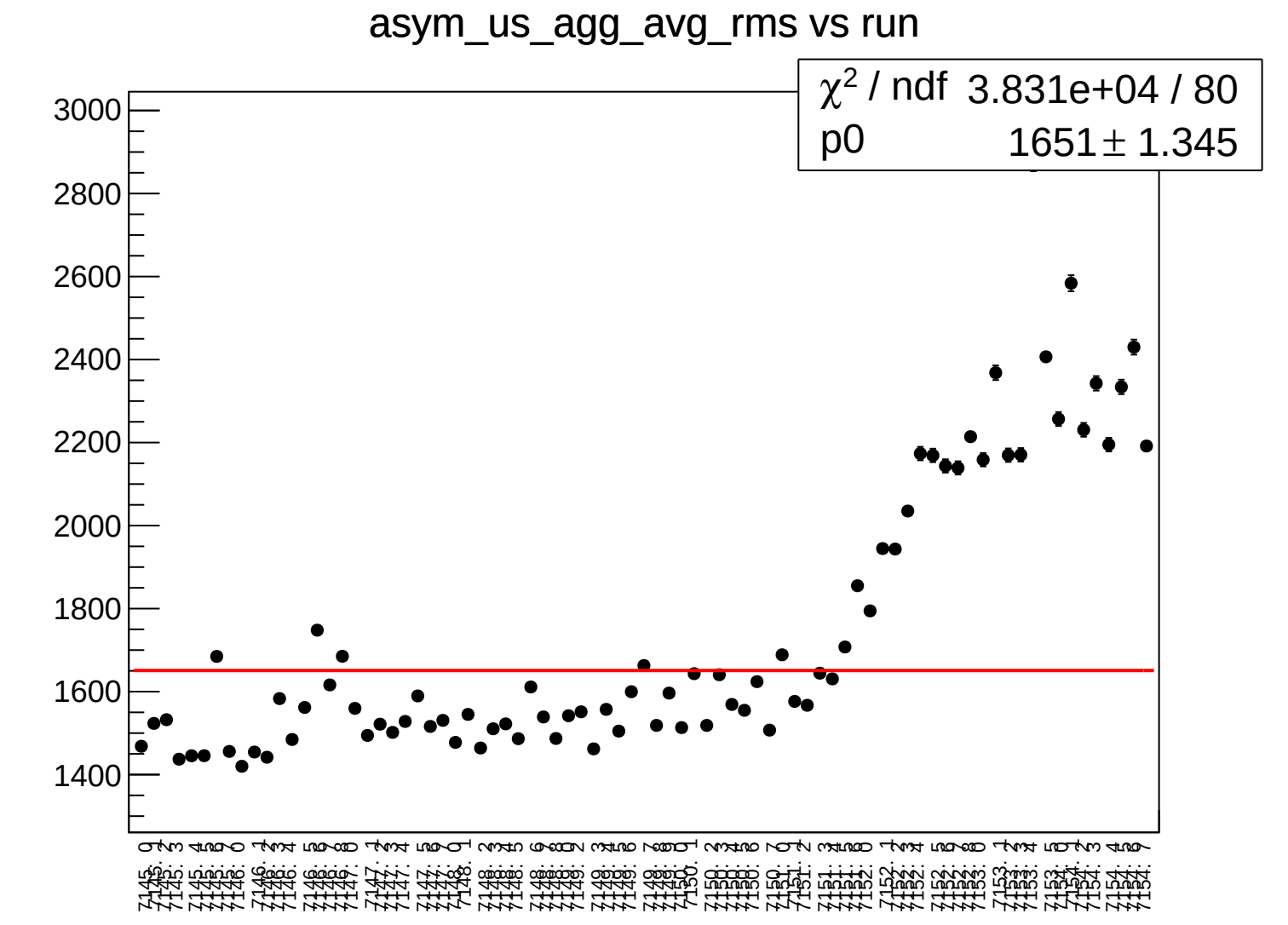

cor_asym_usl_rms vs run
χ^2 / ndf 118.1 / 80
p0 1114 ± 0.8958
1180
1160
1140
1120
1100
1080

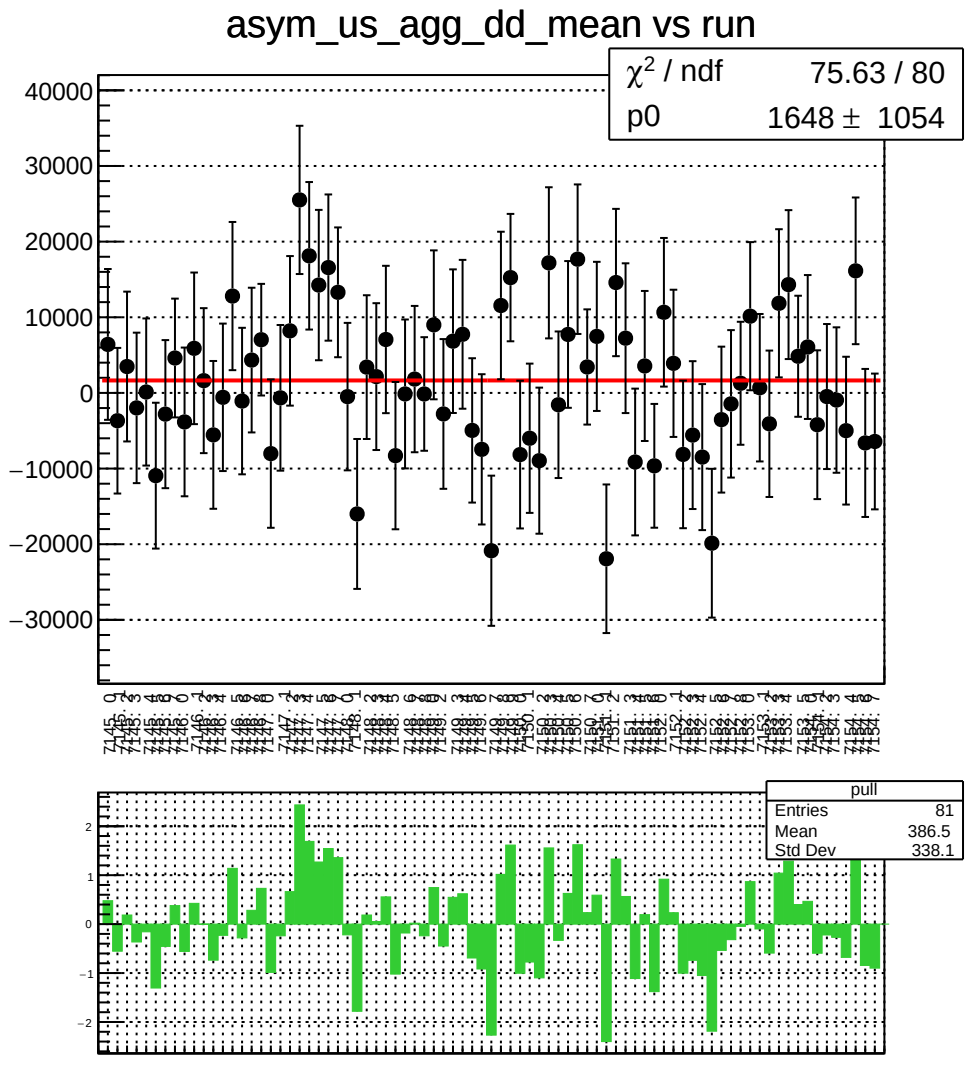

cor_asym_usr_mean vs run
χ² / ndf 77.99 / 80
p0 1227 ± 1251
pull
Entries 81
Mean −96.05
Std Dev 66.68
pull1D
Entries 81
Mean 0.006011
Std Dev 0.9813

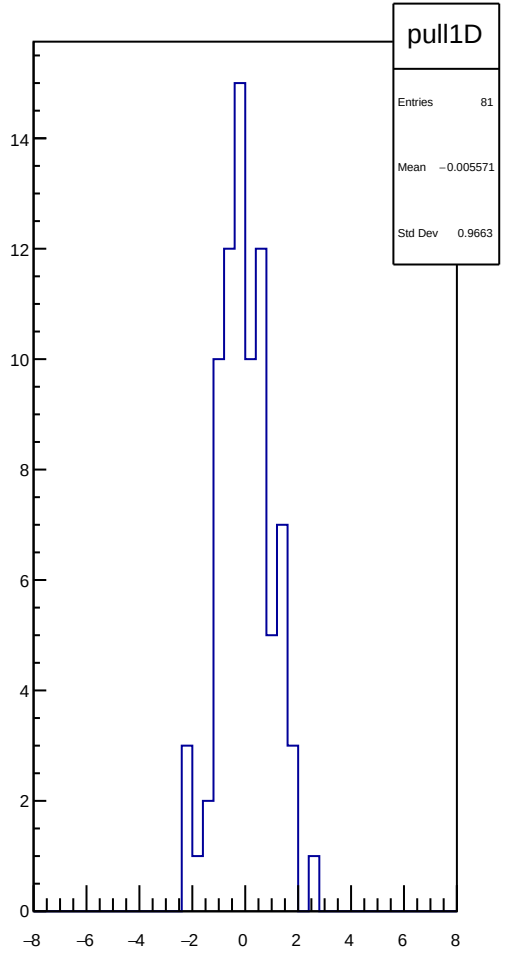

cor_asym_usr_rms vs run
χ² / ndf 96.23 / 80
p0 1100 ± 0.8846
1140
1130
1120
1110
1100
1090
1080
1070

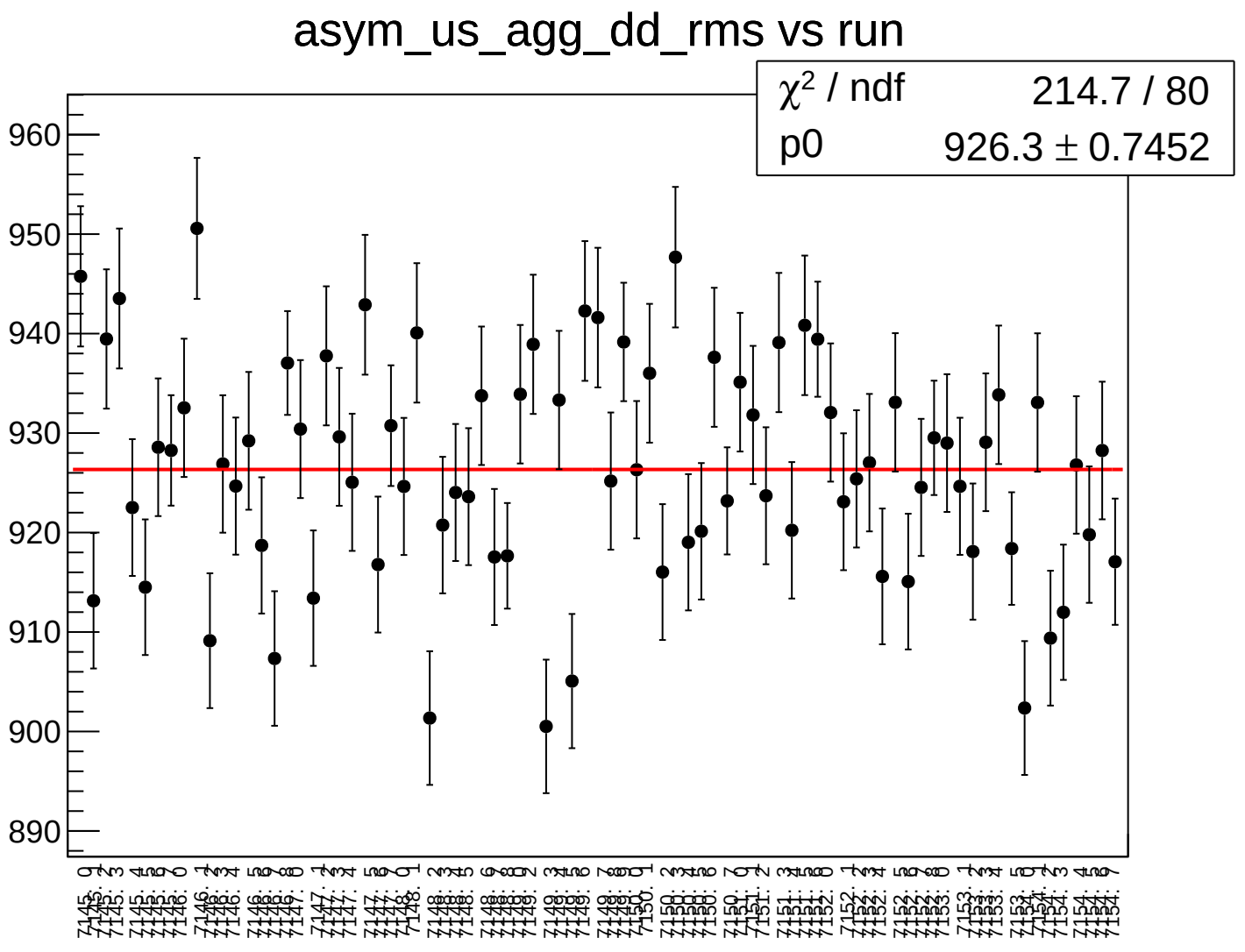

asym_us_agg_avg_mean vs run
χ² / ndf 61.9 / 80
p0 1092 ± 1902
pull
Entries 81
Mean 344.2
Std Dev 295.1

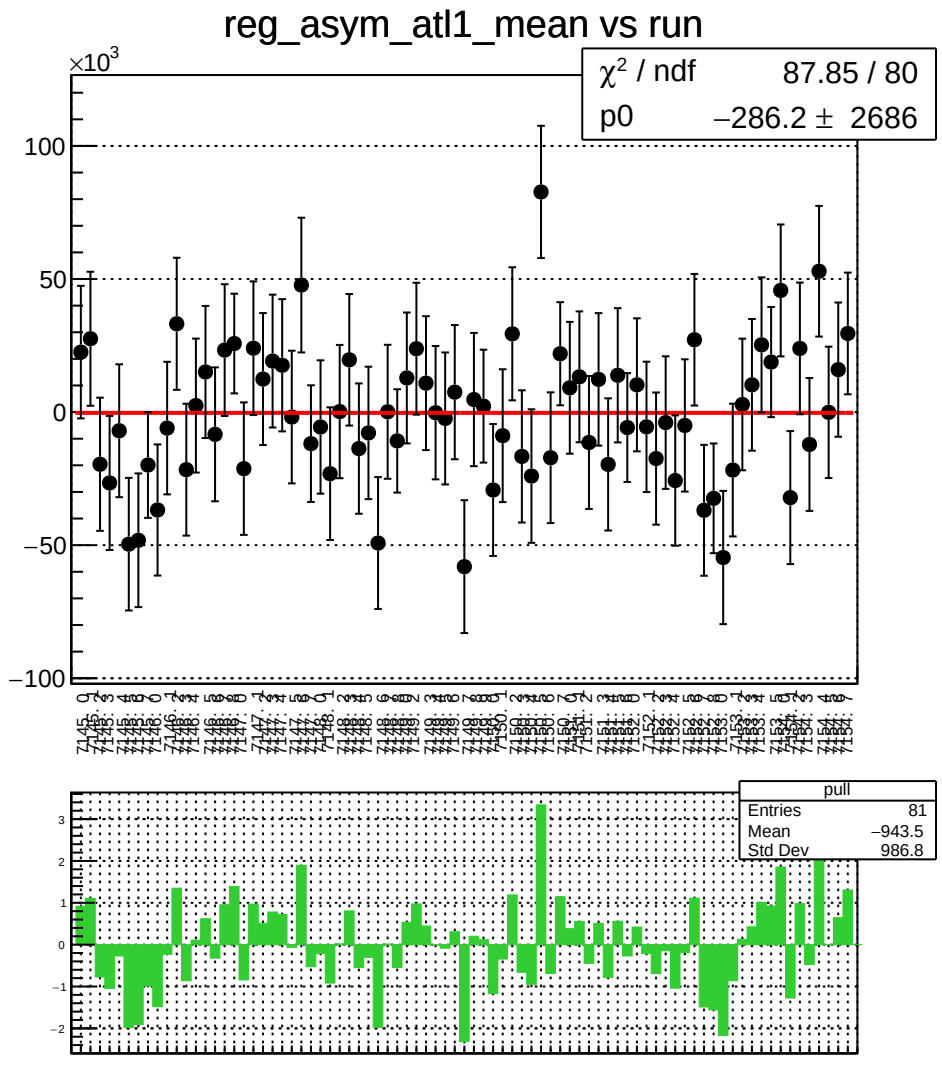

pull1D
Entries 81
Mean −0.009678
Std Dev 0.8741

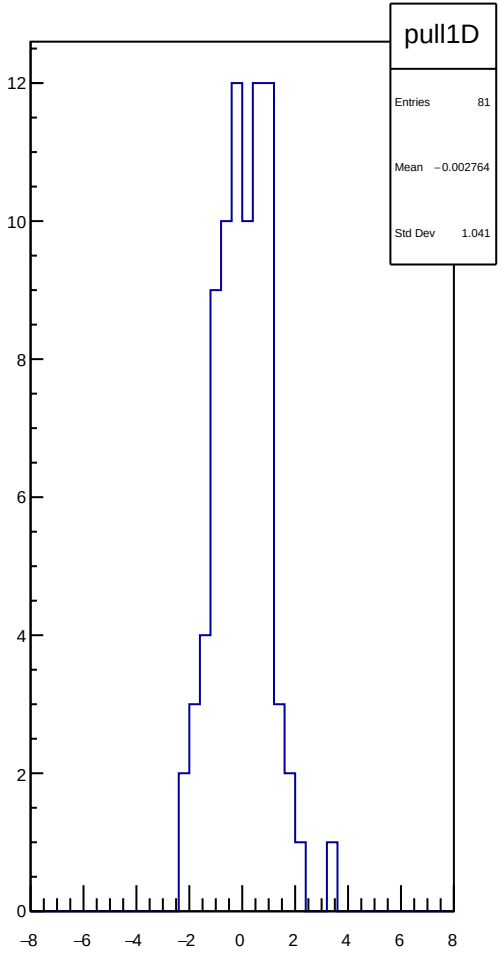

asym_us_agg_avg_rms vs run
χ^2 / ndf 3.831e+04 / 80
p0 1651 ± 1.345
3000
2800
2600
2400
2200
2000
1800
1600
1400

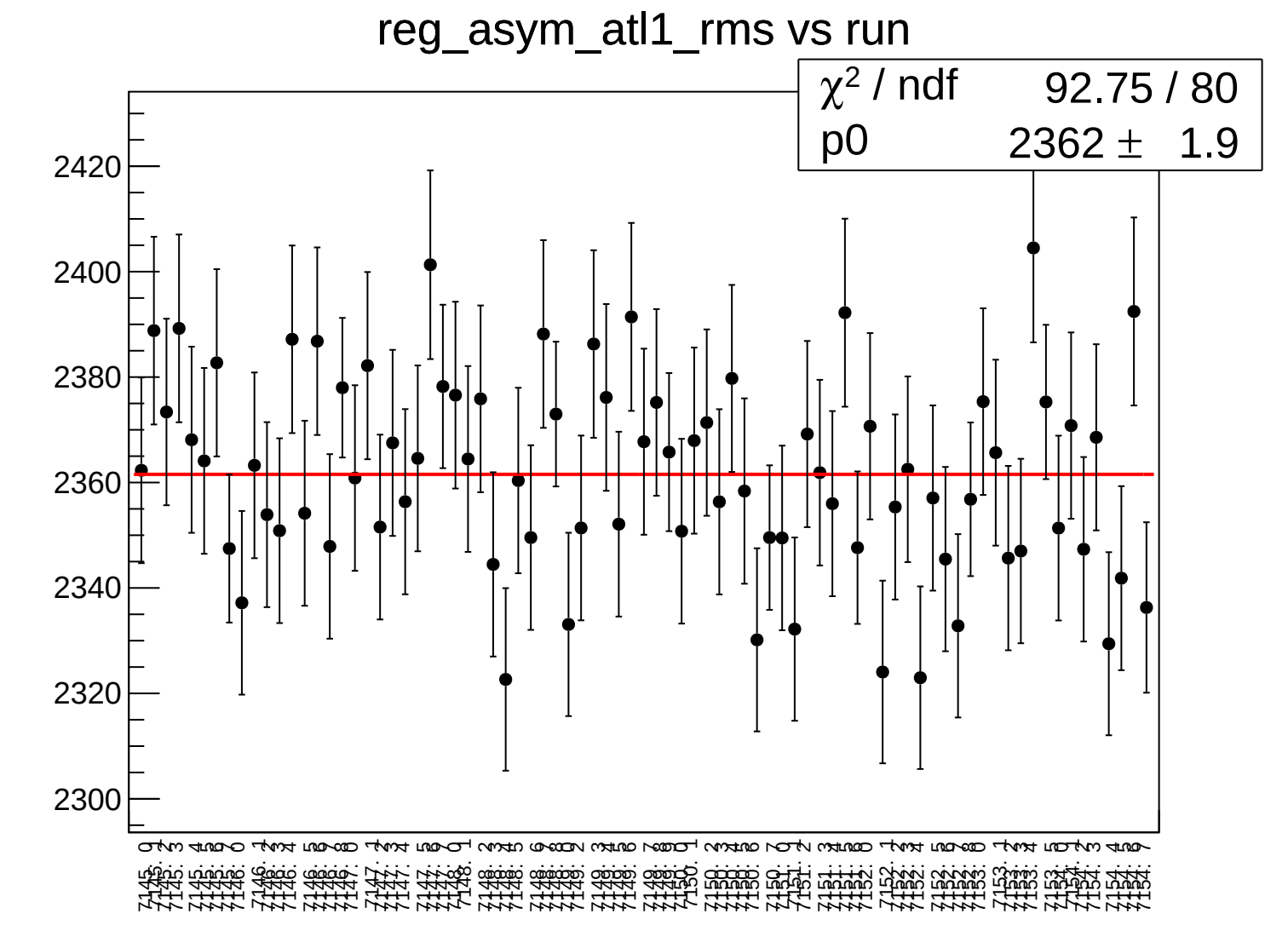

asym_us_agg_dd_mean vs run
χ² / ndf 75.63 / 80
p0 1648 ± 1054
pull
Entries 81
Mean 386.5
Std Dev 338.1

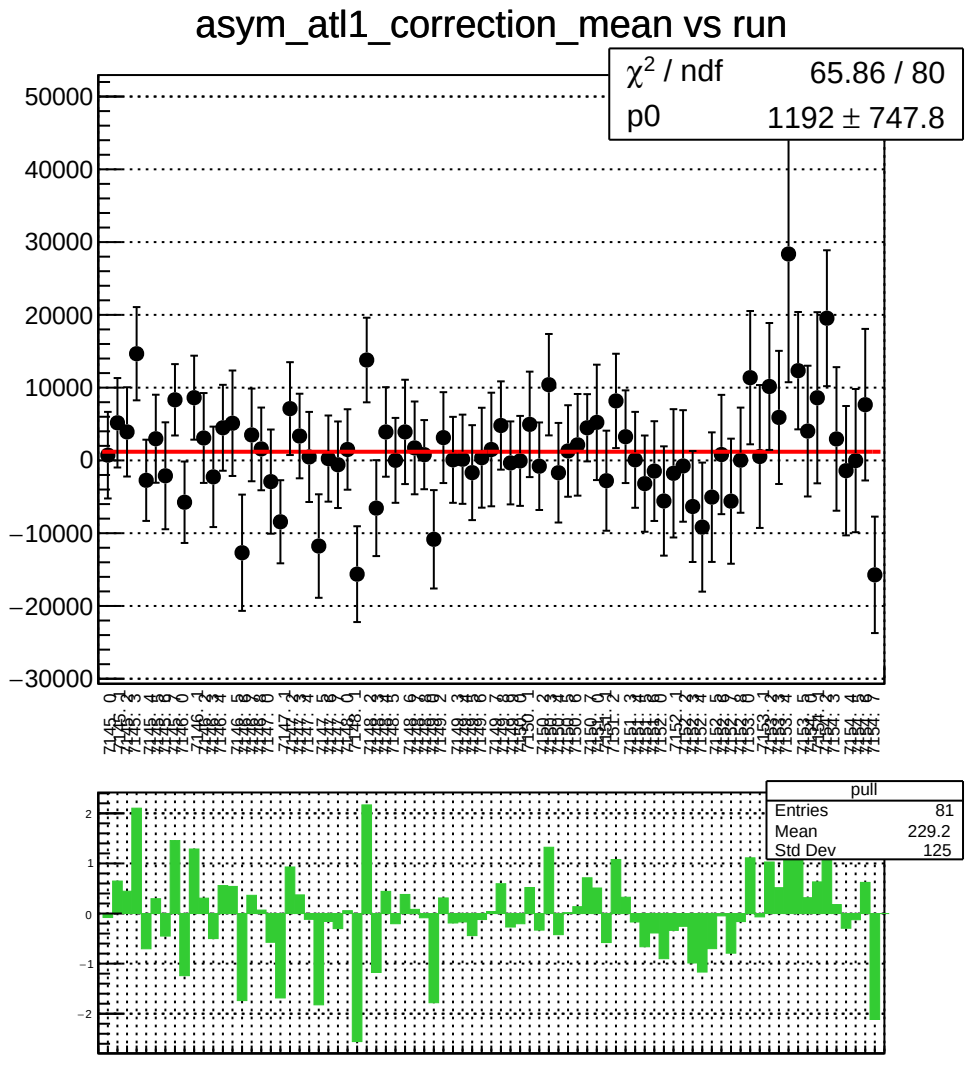

pull1D
Entries 81
Mean −0.005571
Std Dev 0.9663

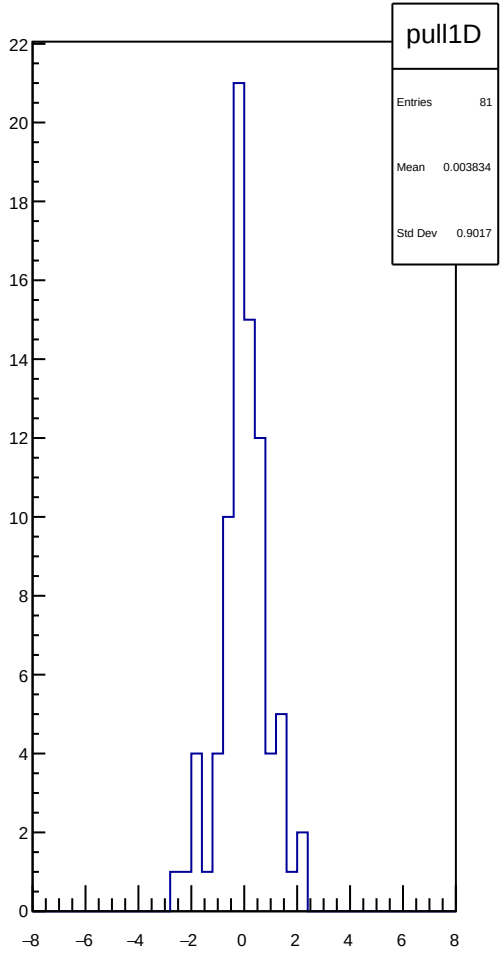

asym_us_agg_dd_rms vs run
χ² / ndf 214.7 / 80
p0 926.3 ± 0.7452
960
950
940
930
920
910
900
890

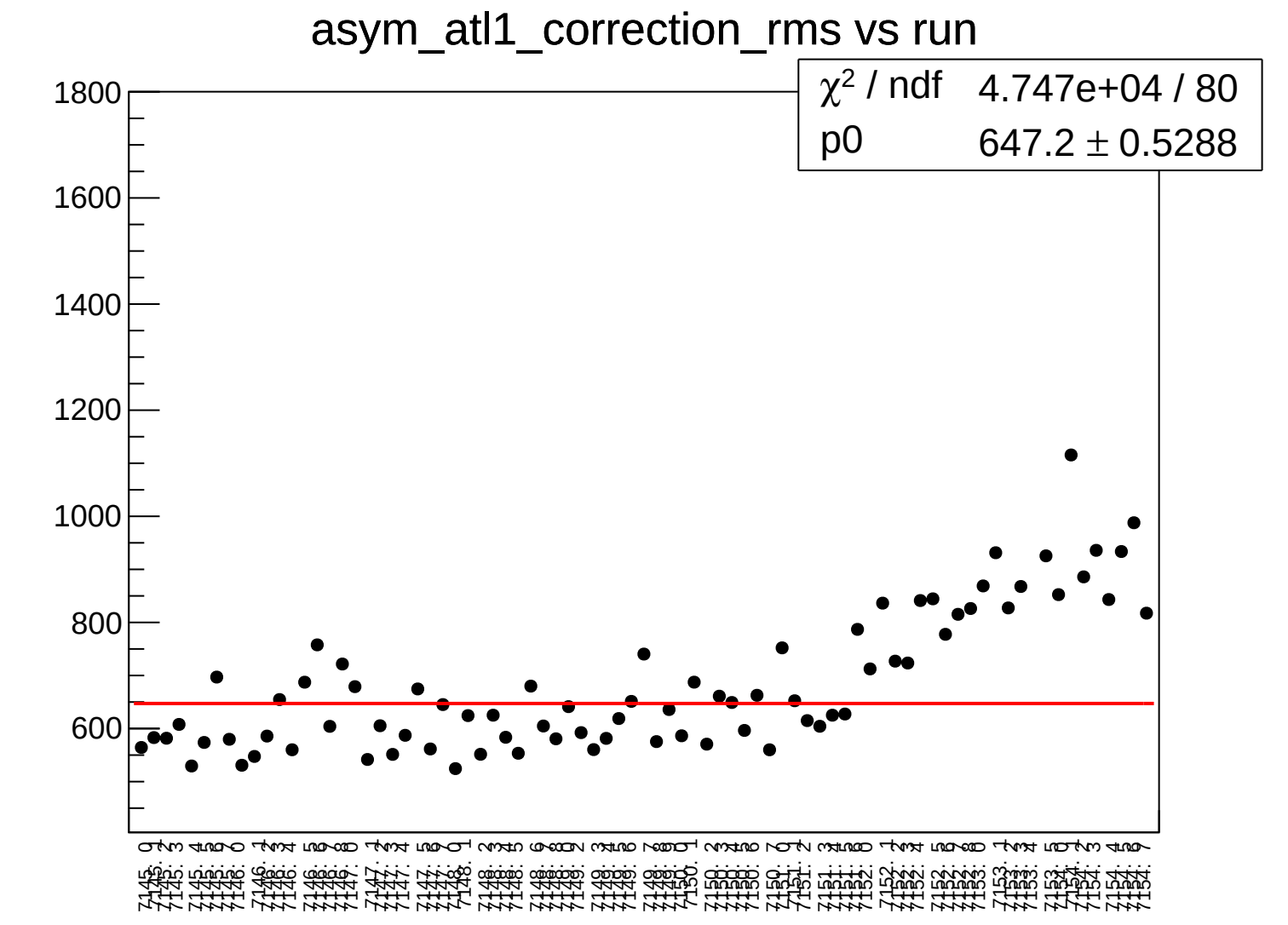

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 87.85 / 80
p0 −286.2 ± 2686
100
50
0
−50
−100
pull
Entries 81
Mean −943.5
Std Dev 986.8
3
2
1
0
−1
−2

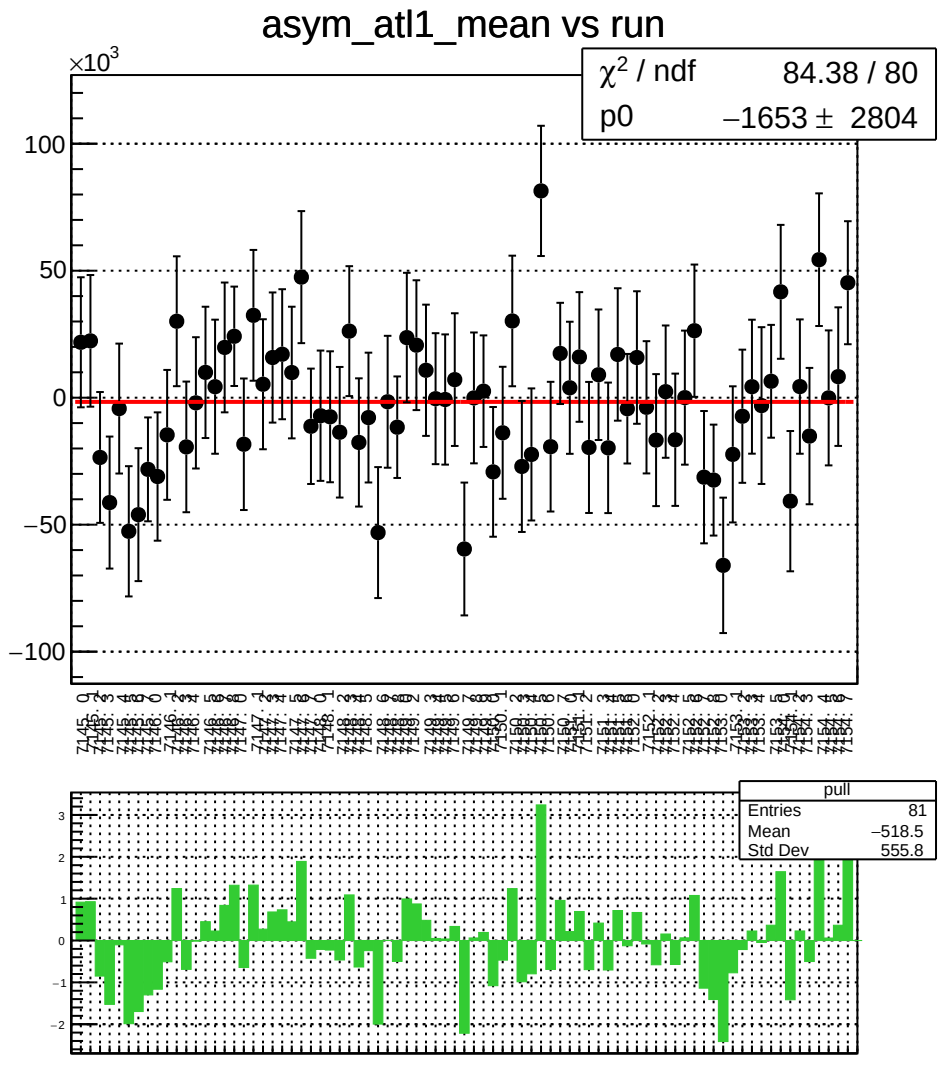

pull1D
Entries 81
Mean −0.002764
Std Dev 1.041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

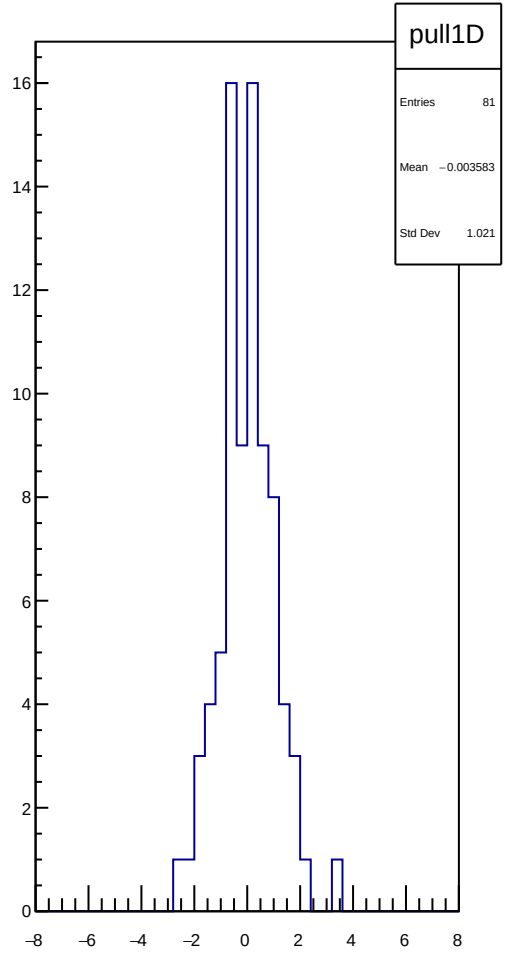

reg_asym_atl1_rms vs run
χ² / ndf 92.75 / 80
p0 2362 ± 1.9
2420
2400
2380
2360
2340
2320
2300

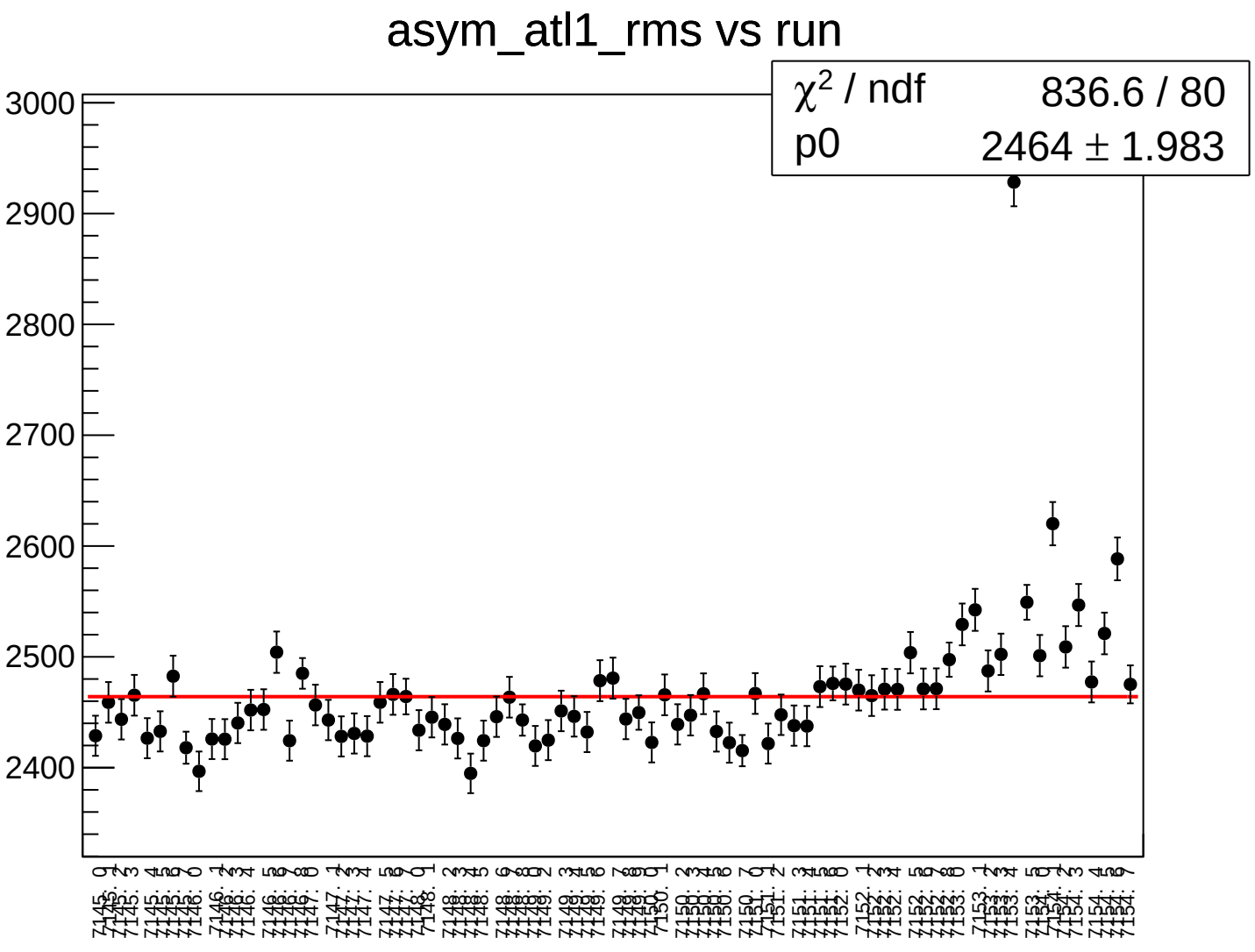

asym_atl1_correction_mean vs run
χ² / ndf 65.86 / 80
p0 1192 ± 747.8
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 229.2
Std Dev 125
2
1
0
−1
−2

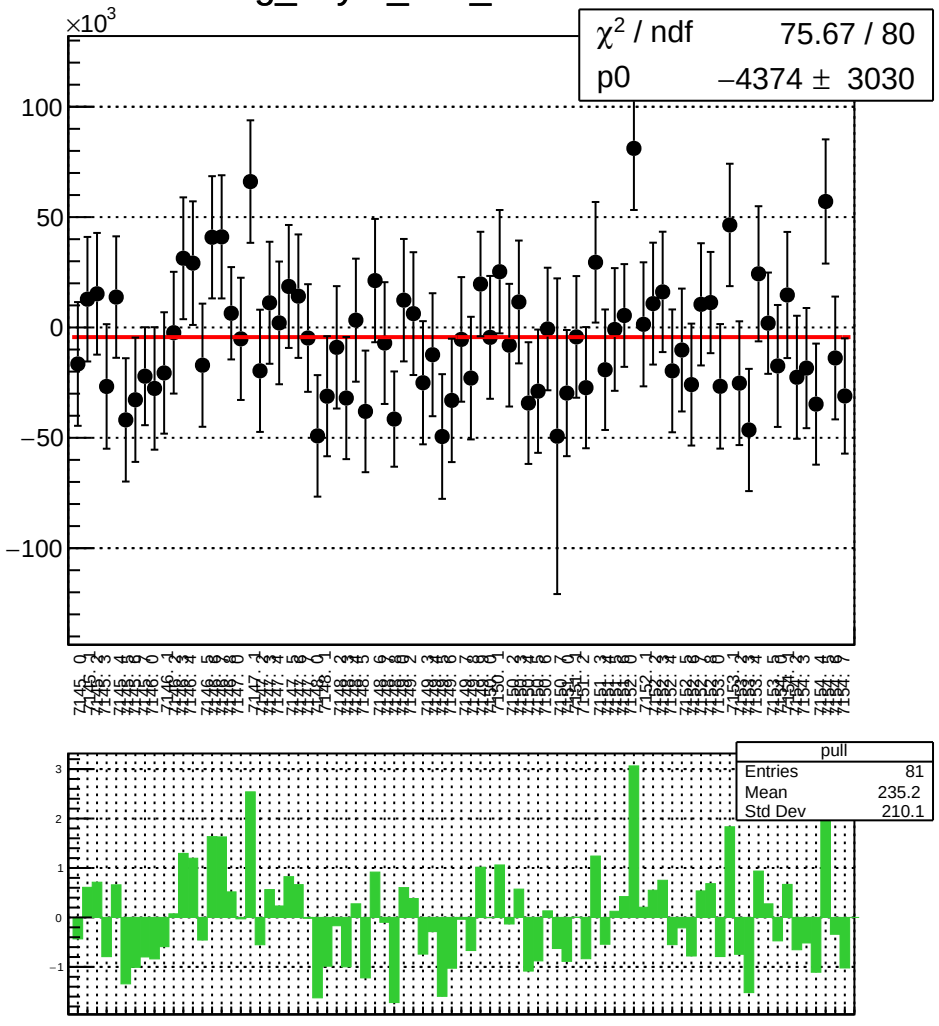

pull1D
Entries 81
Mean 0.003834
Std Dev 0.9017
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

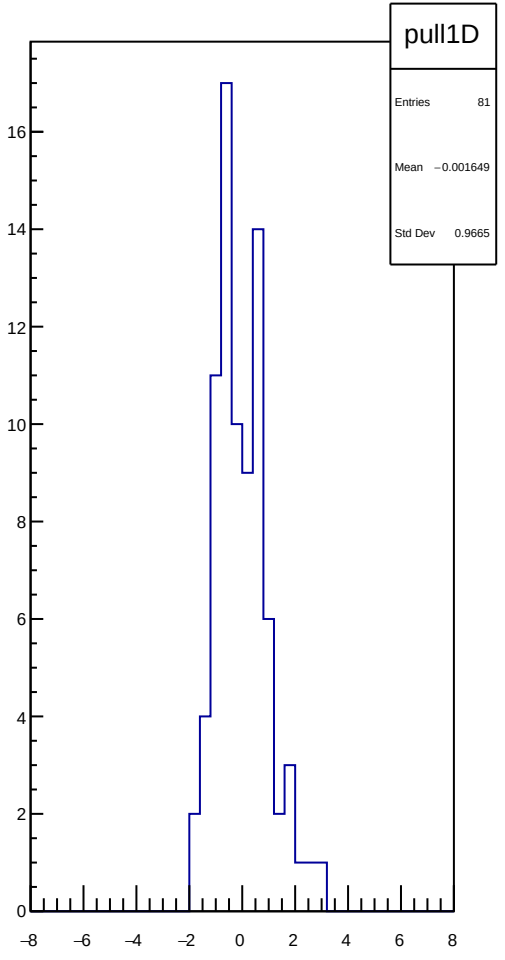

asym_atl1_correction_rms vs run
χ² / ndf 4.747e+04 / 80
p0 647.2 ± 0.5288
1800
1600
1400
1200
1000
800
600

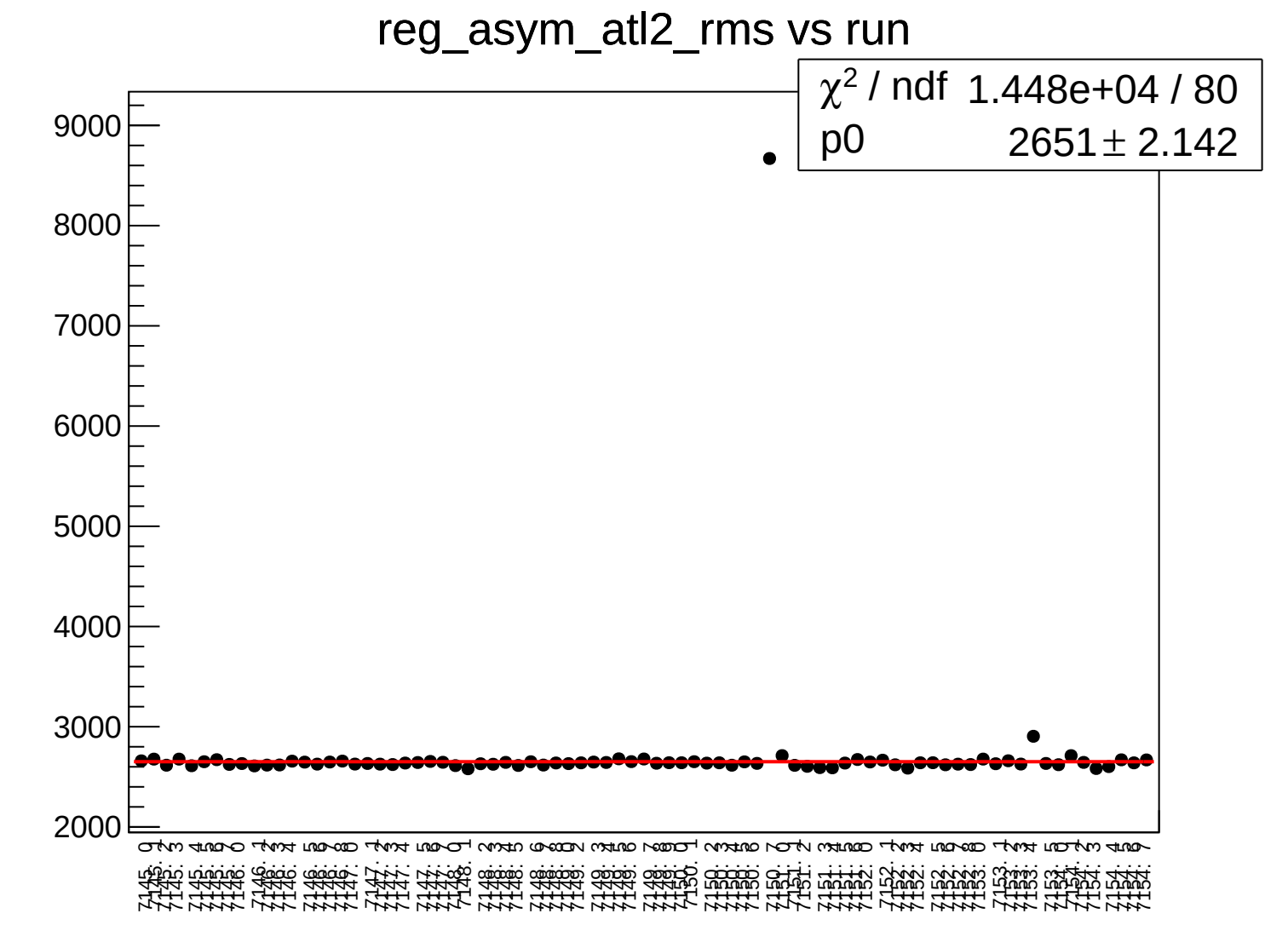

asym_atl1_mean vs run
×10^3
χ² / ndf 84.38 / 80
p0 −1653 ± 2804
100
50
0
−50
−100
pull
Entries 81
Mean −518.5
Std Dev 555.8
3
2
1
0
−1
−2

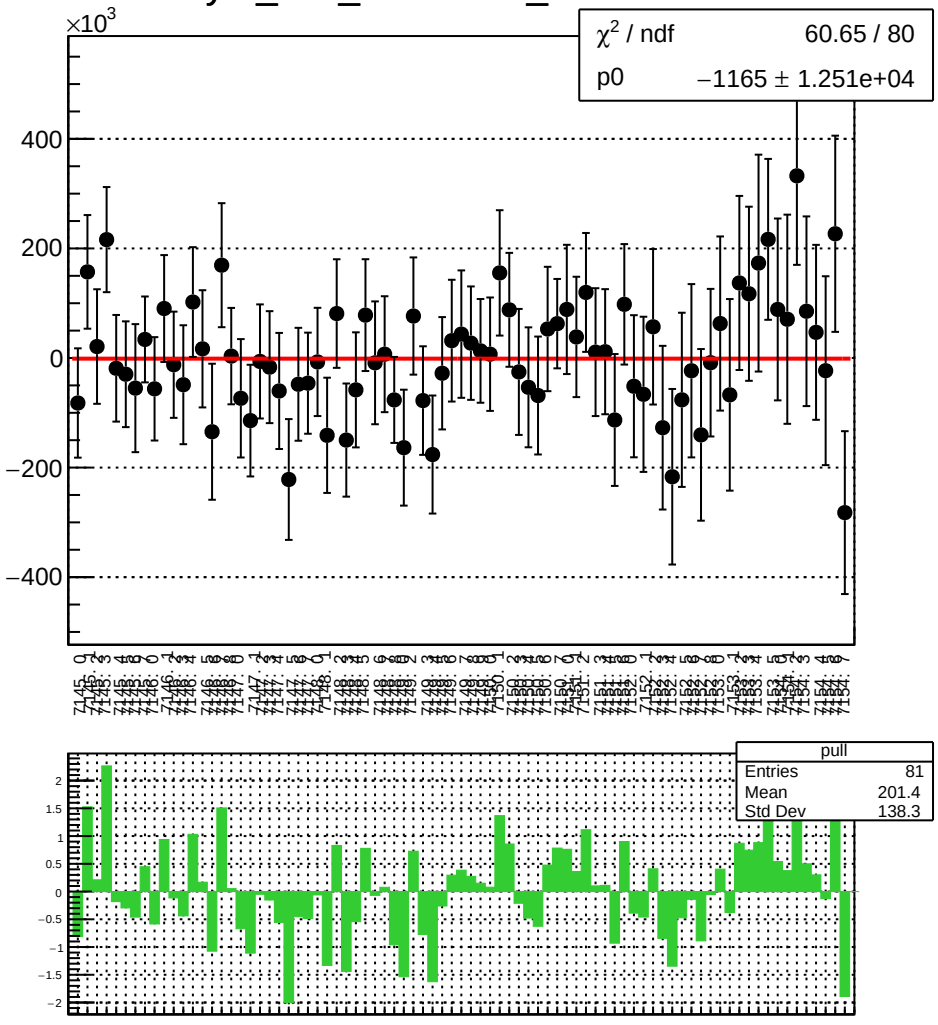

pull1D
Entries 81
Mean −0.003583
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

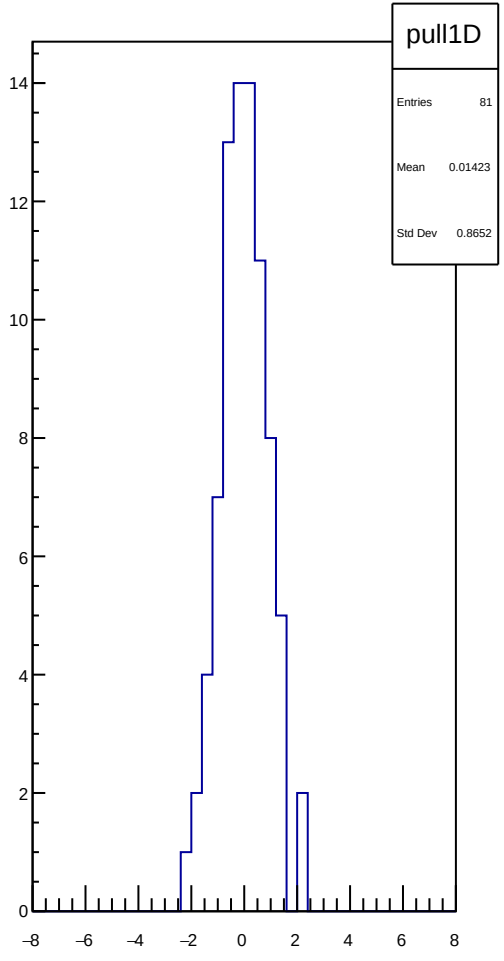

asym_atl1_rms vs run
χ² / ndf 836.6 / 80
p0 2464 ± 1.983
3000
2900
2800
2700
2600
2500
2400

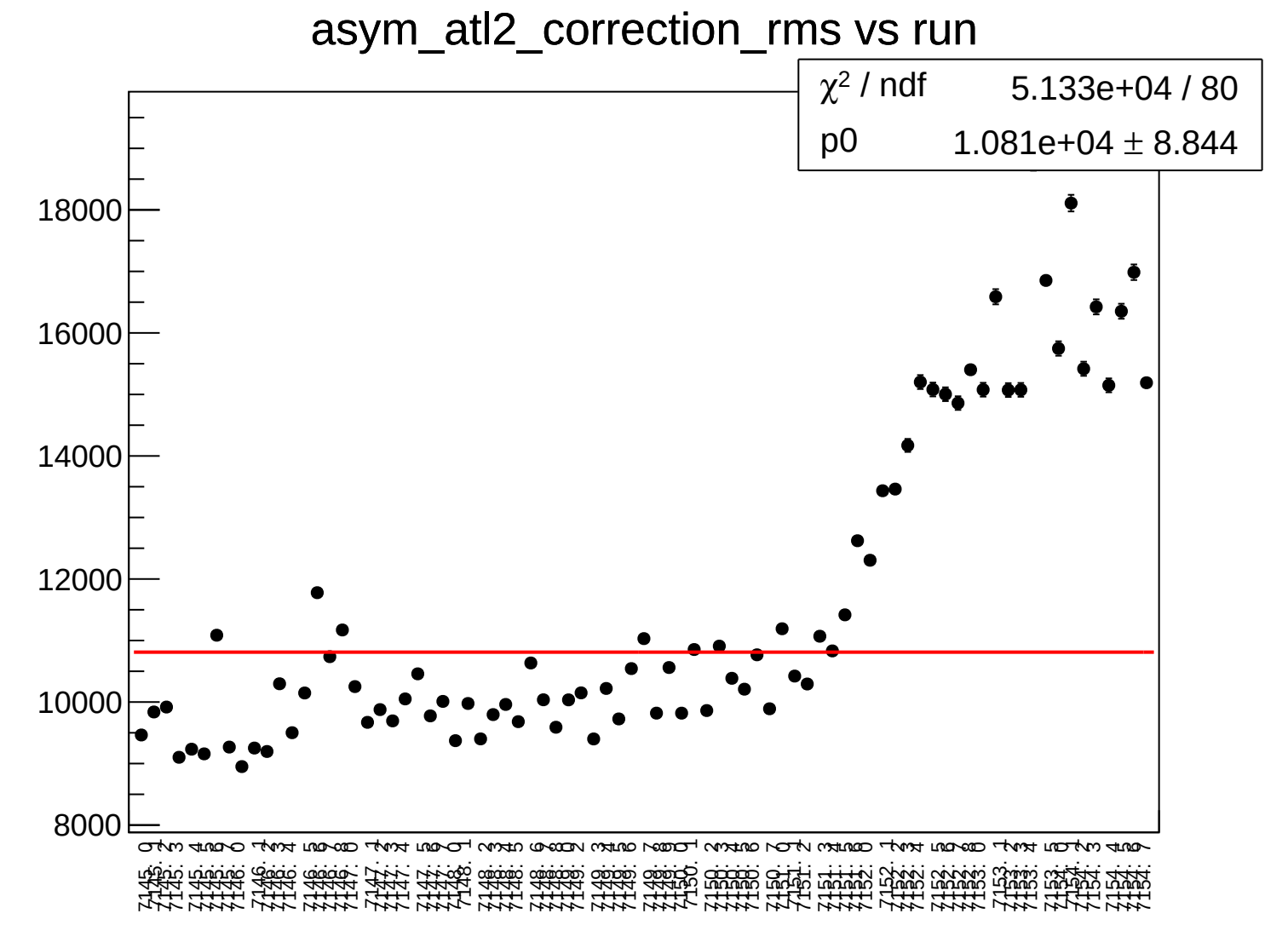

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 75.67 / 80
p0 −4374 ± 3030
100
50
0
−50
−100
pull
Entries 81
Mean 235.2
Std Dev 210.1
3
2
1
0
−1

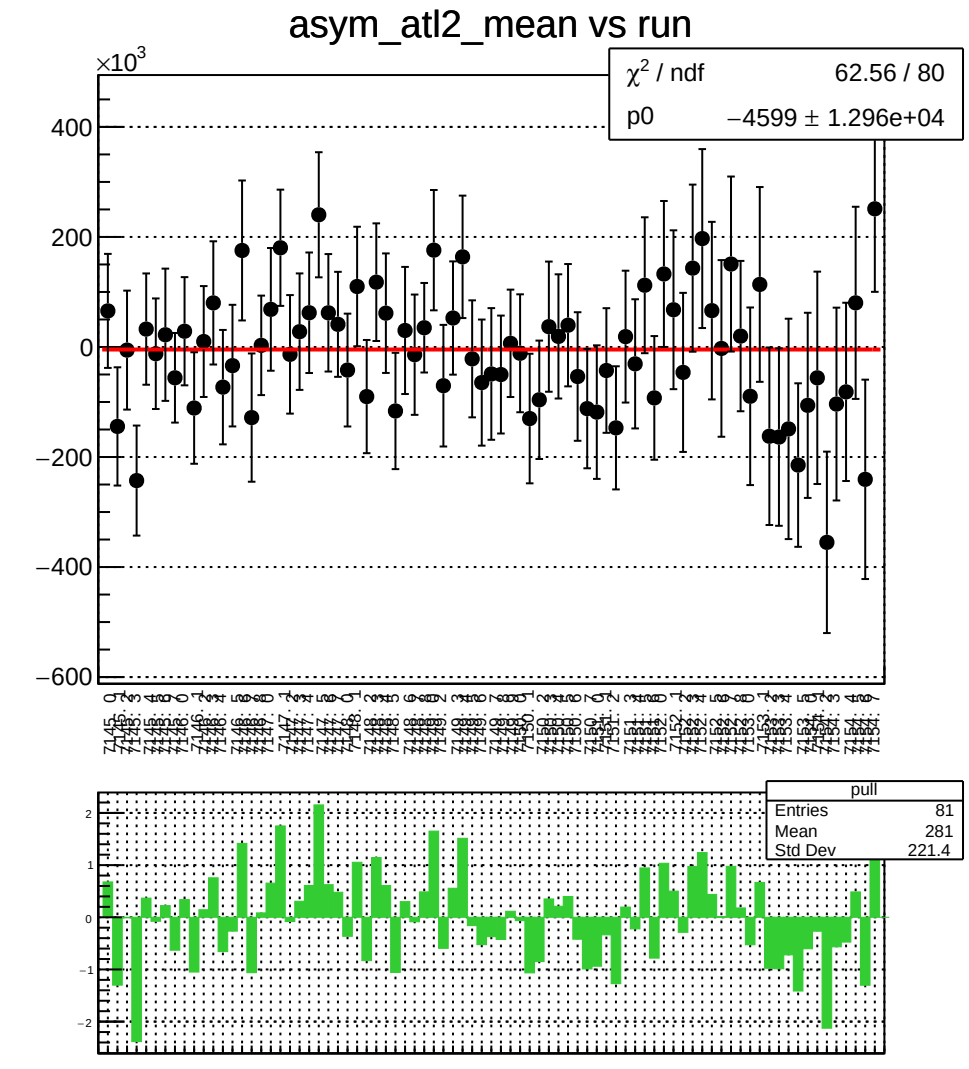

pull1D
Entries 81
Mean −0.001649
Std Dev 0.9665
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

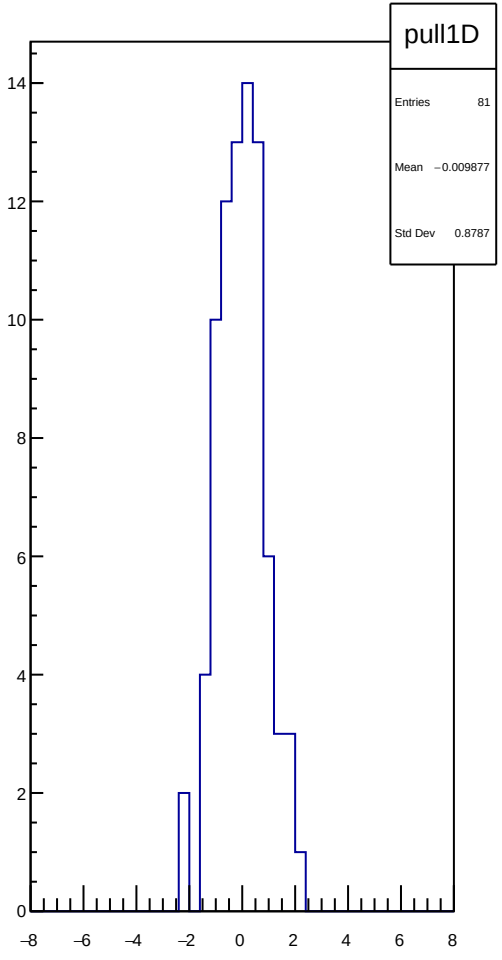

reg_asym_atl2_rms vs run
χ^2 / ndf 1.448e+04 / 80
p0 2651 ± 2.142
9000
8000
7000
6000
5000
4000
3000
2000

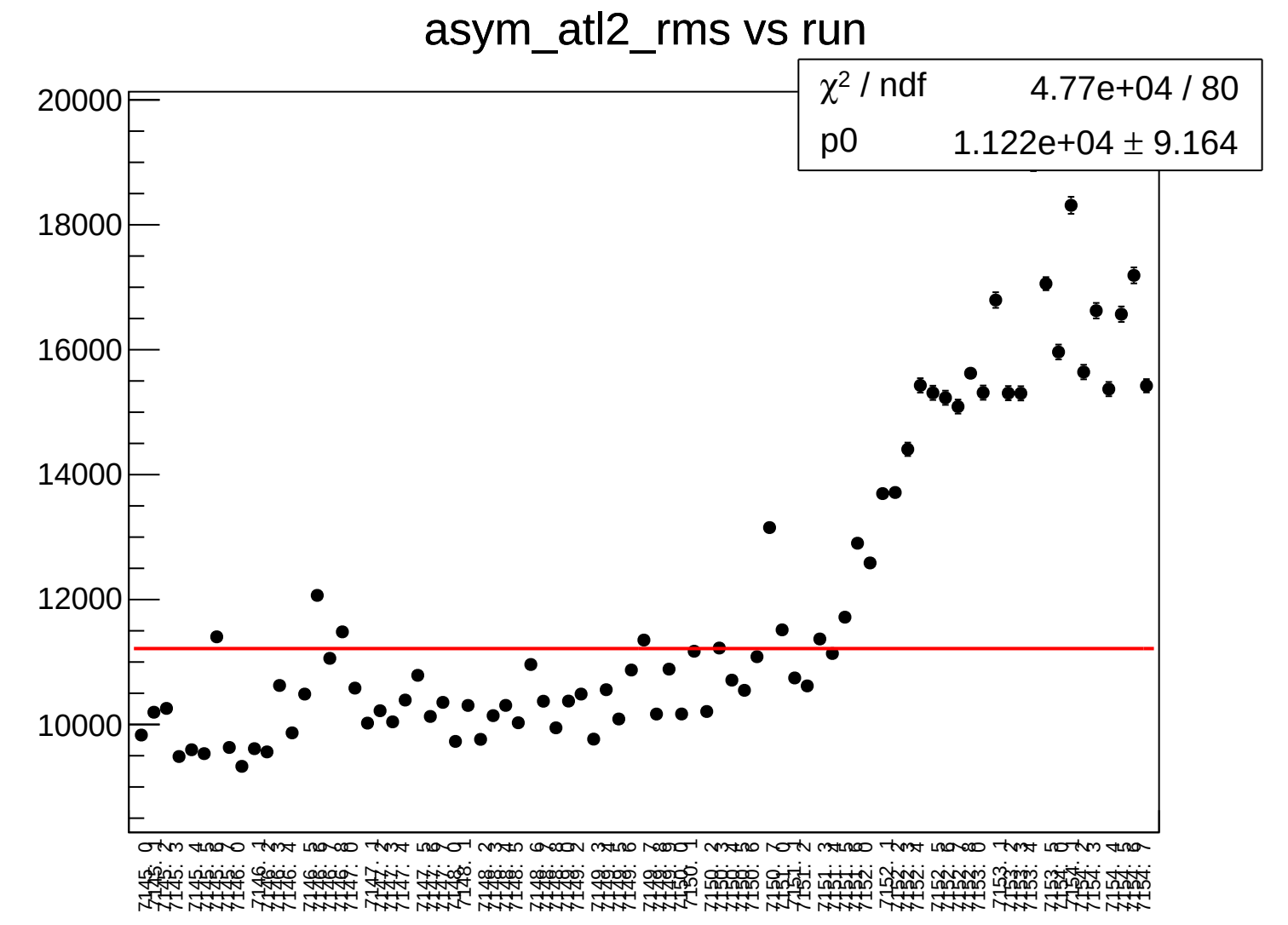

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 60.65 / 80
p0 −1165 ± 1.251e+04
400
200
0
−200
−400
pull
Entries 81
Mean 201.4
Std Dev 138.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

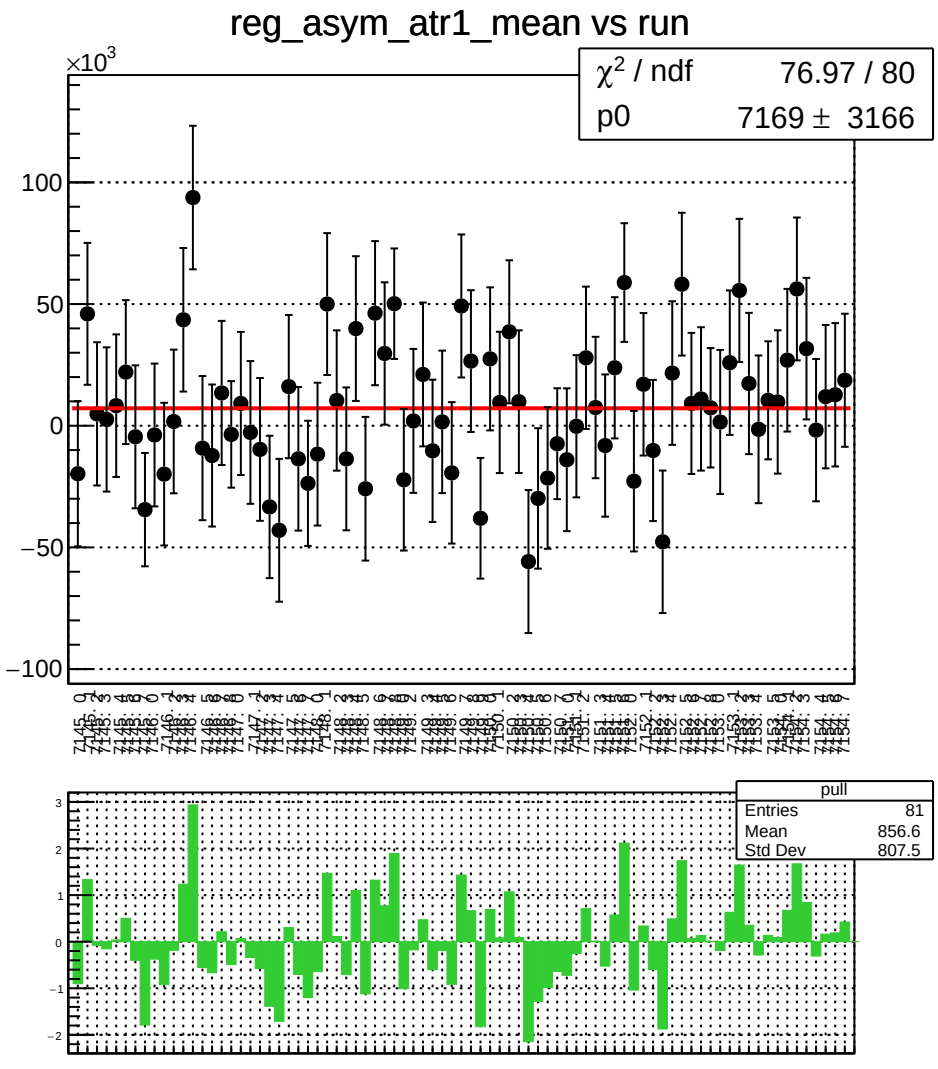

pull1D
Entries 81
Mean 0.01423
Std Dev 0.8652
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

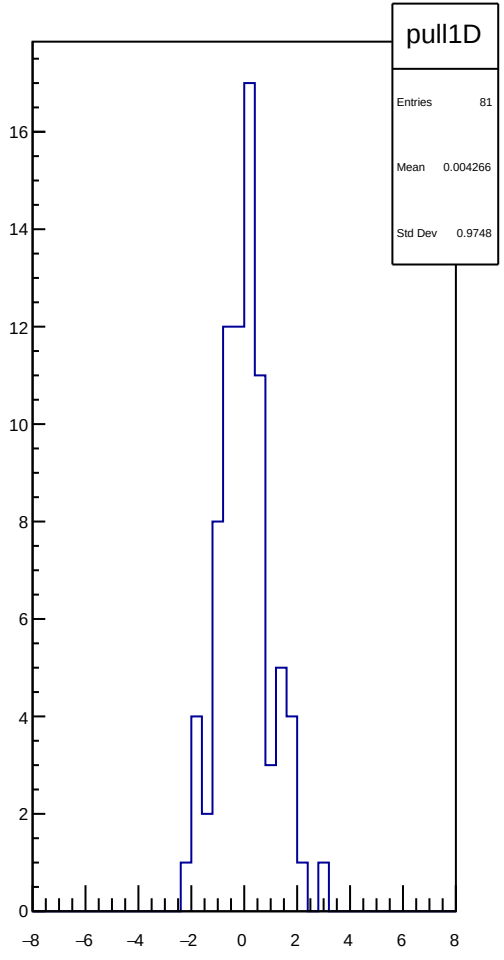

asym_atl2_correction_rms vs run
χ² / ndf 5.133e+04 / 80
p0 1.081e+04 ± 8.844
18000
16000
14000
12000
10000
8000

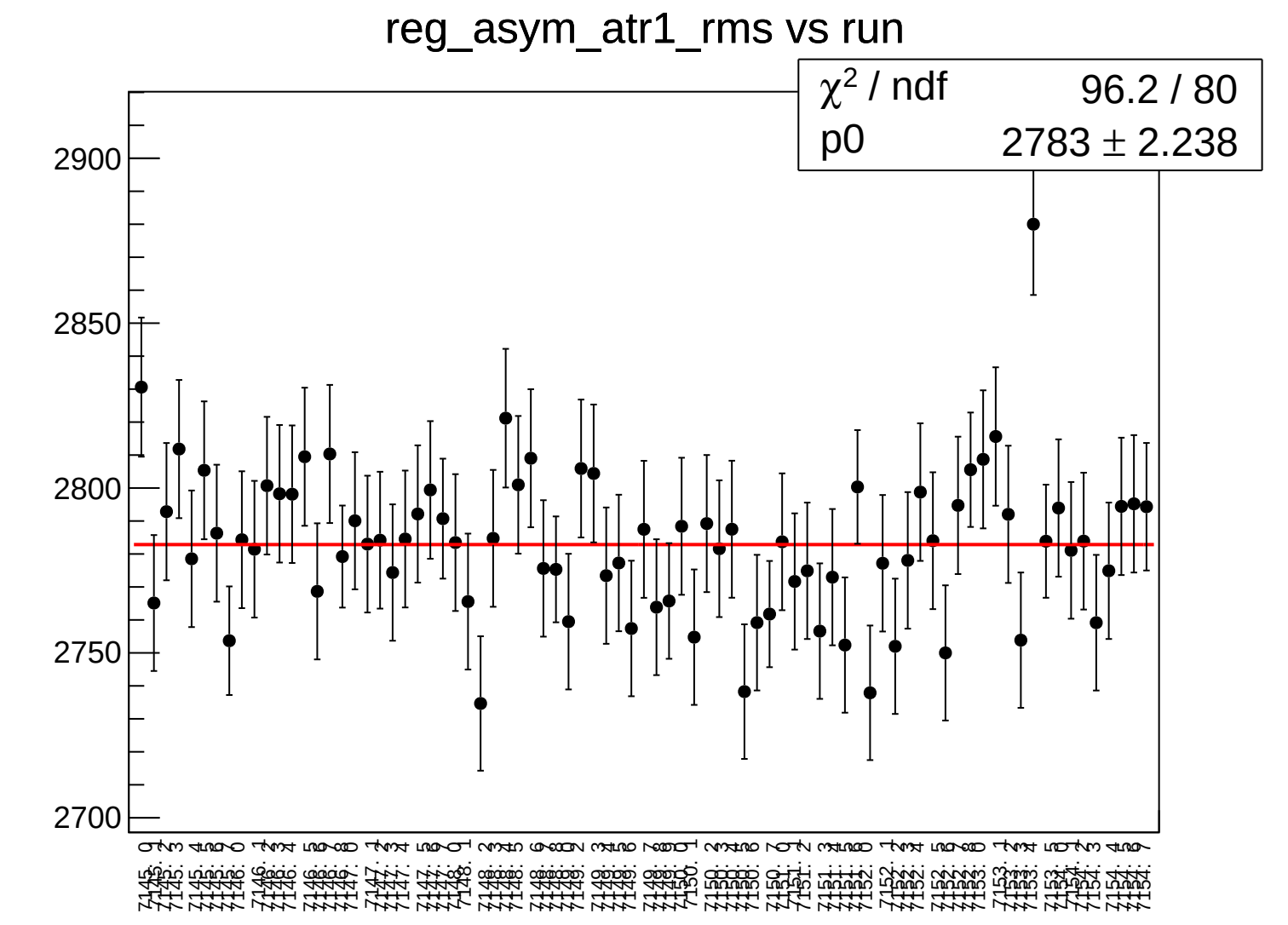

asym_atl2_mean vs run
×10^3
χ² / ndf 62.56 / 80
p0 −4599 ± 1.296e+04
pull
Entries 81
Mean 281
Std Dev 221.4

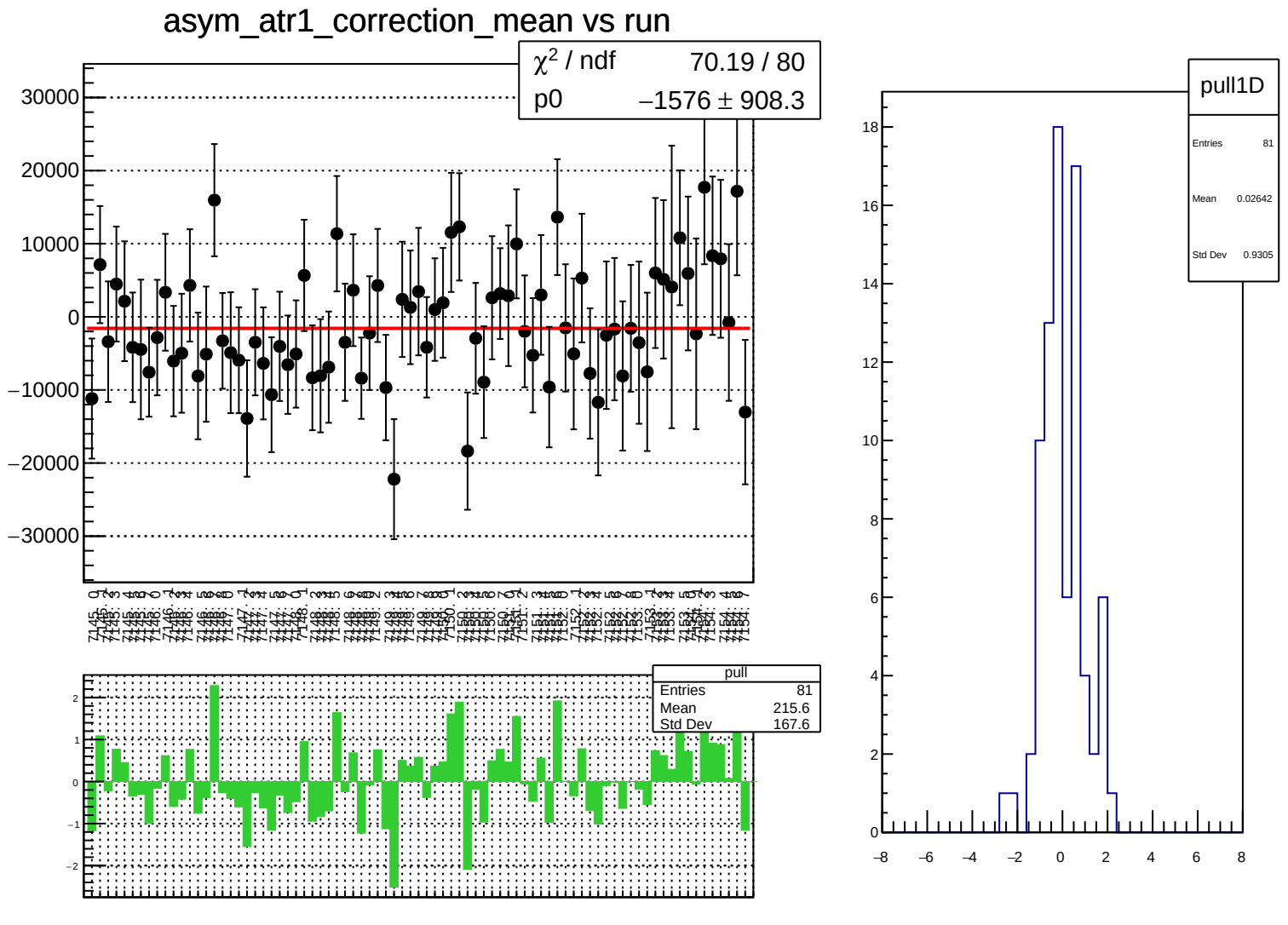

pull1D
Entries 81
Mean −0.009877
Std Dev 0.8787

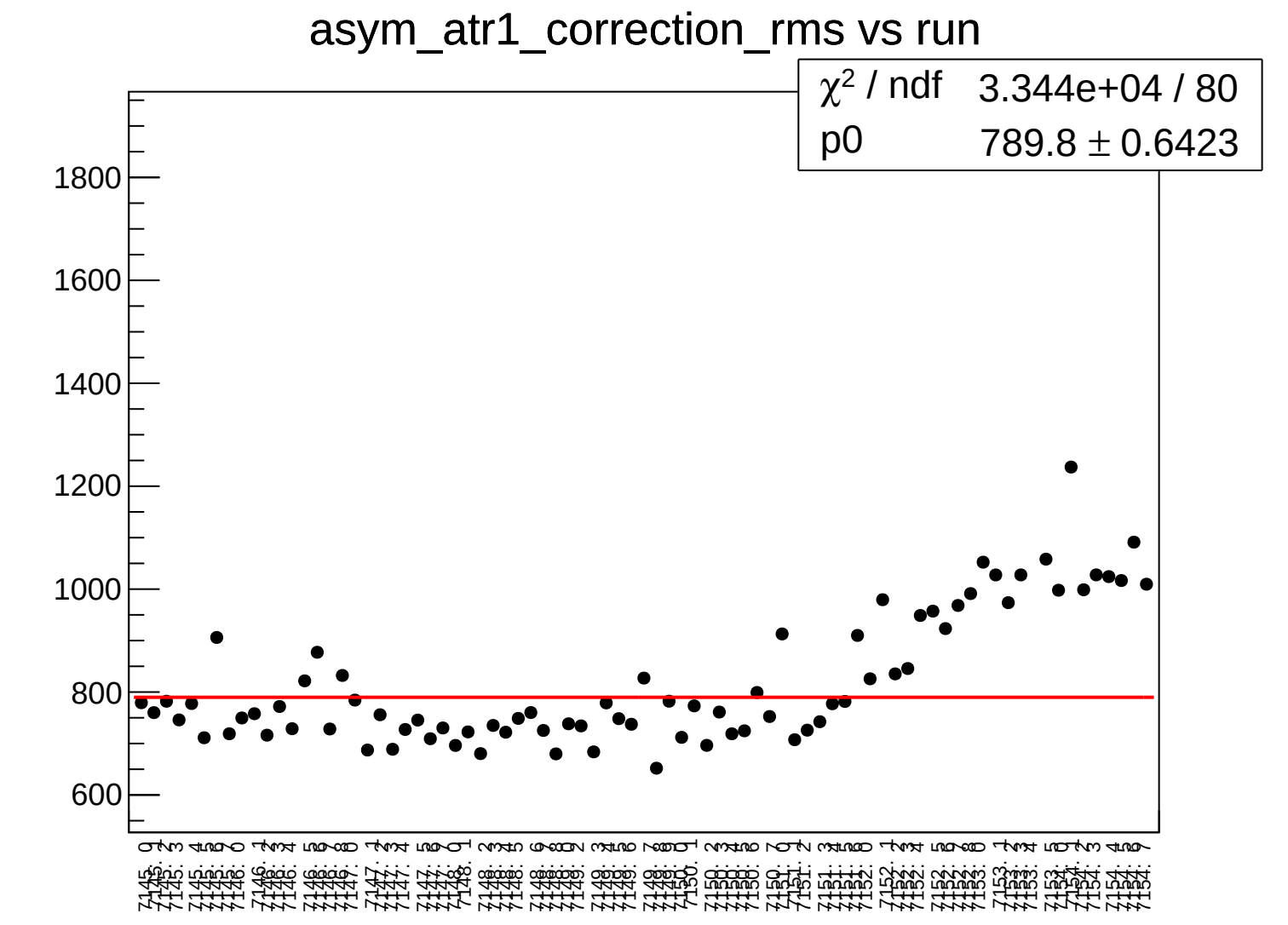

asym_atl2_rms vs run
χ² / ndf 4.77e+04 / 80
p0 1.122e+04 ± 9.164
20000
18000
16000
14000
12000
10000

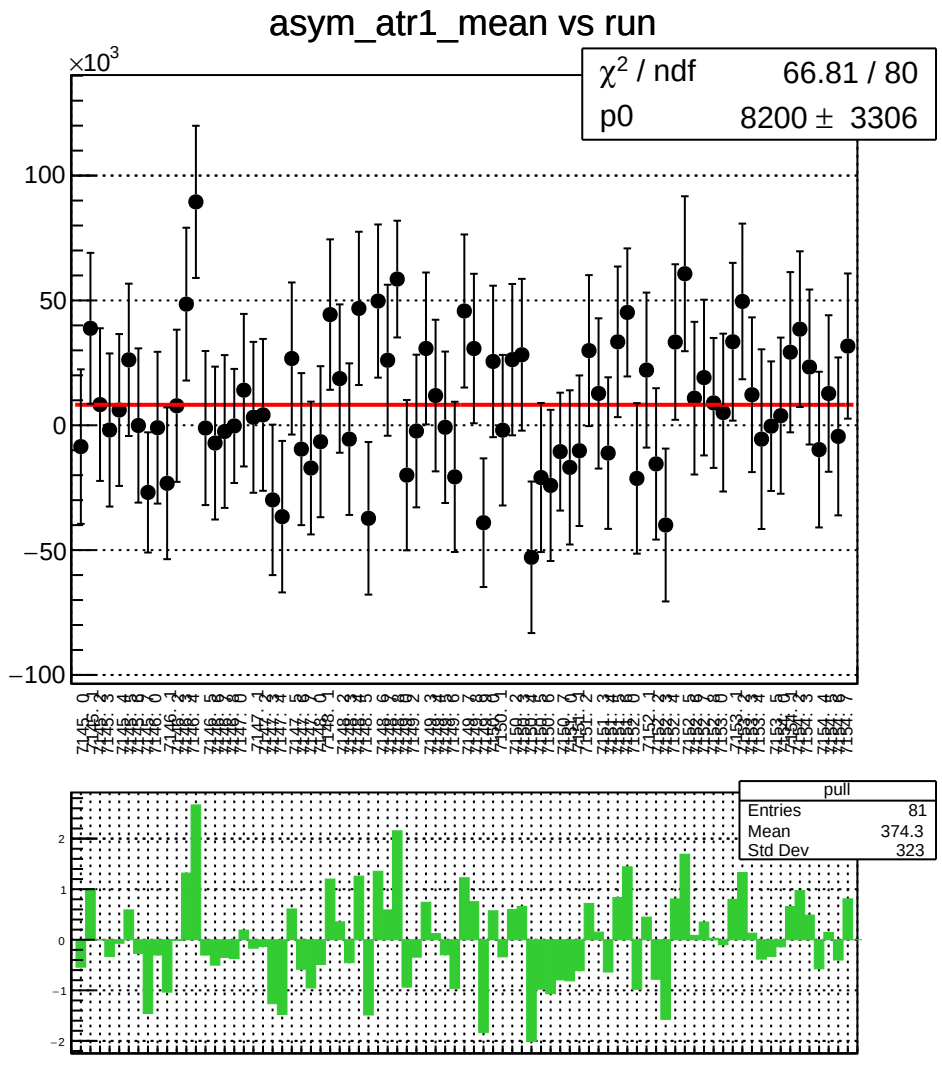

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 76.97 / 80
p0 7169 ± 3166
100
50
0
−50
−100
pull
Entries 81
Mean 856.6
Std Dev 807.5
3
2
1
0
−1
−2

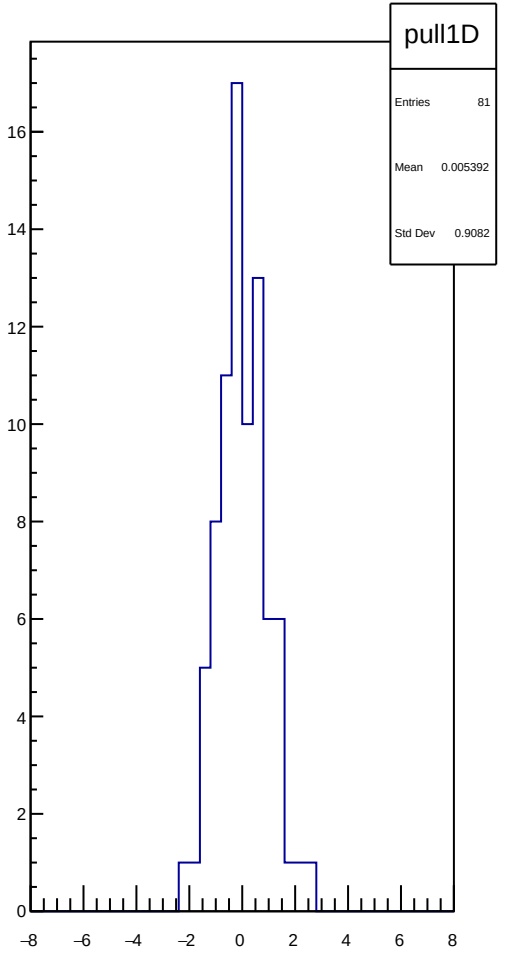

pull1D
Entries 81
Mean 0.004266
Std Dev 0.9748
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

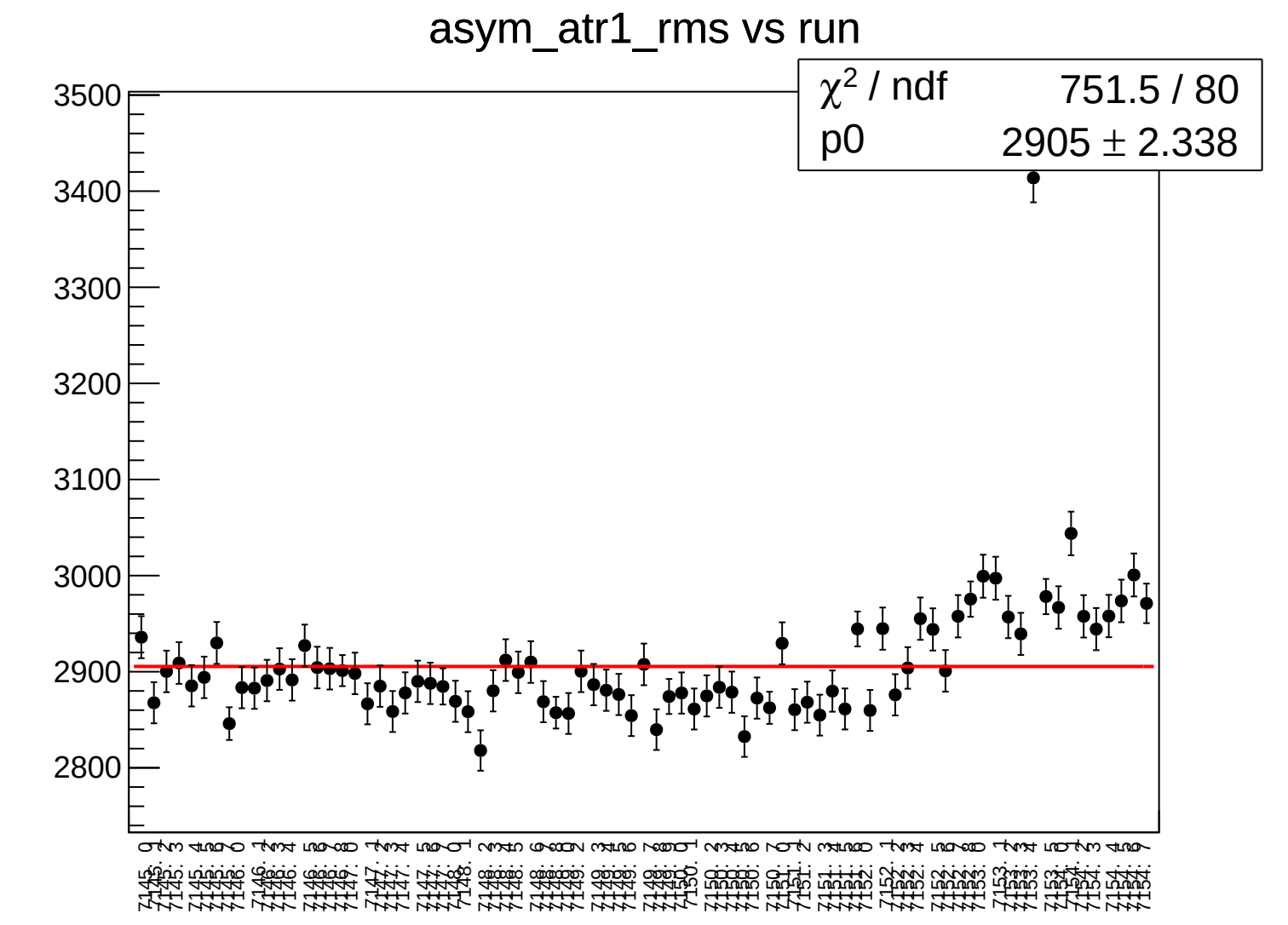

reg_asym_atr1_rms vs run
χ^2 / ndf 96.2 / 80
p0 2783 ± 2.238
2900
2850
2800
2750
2700

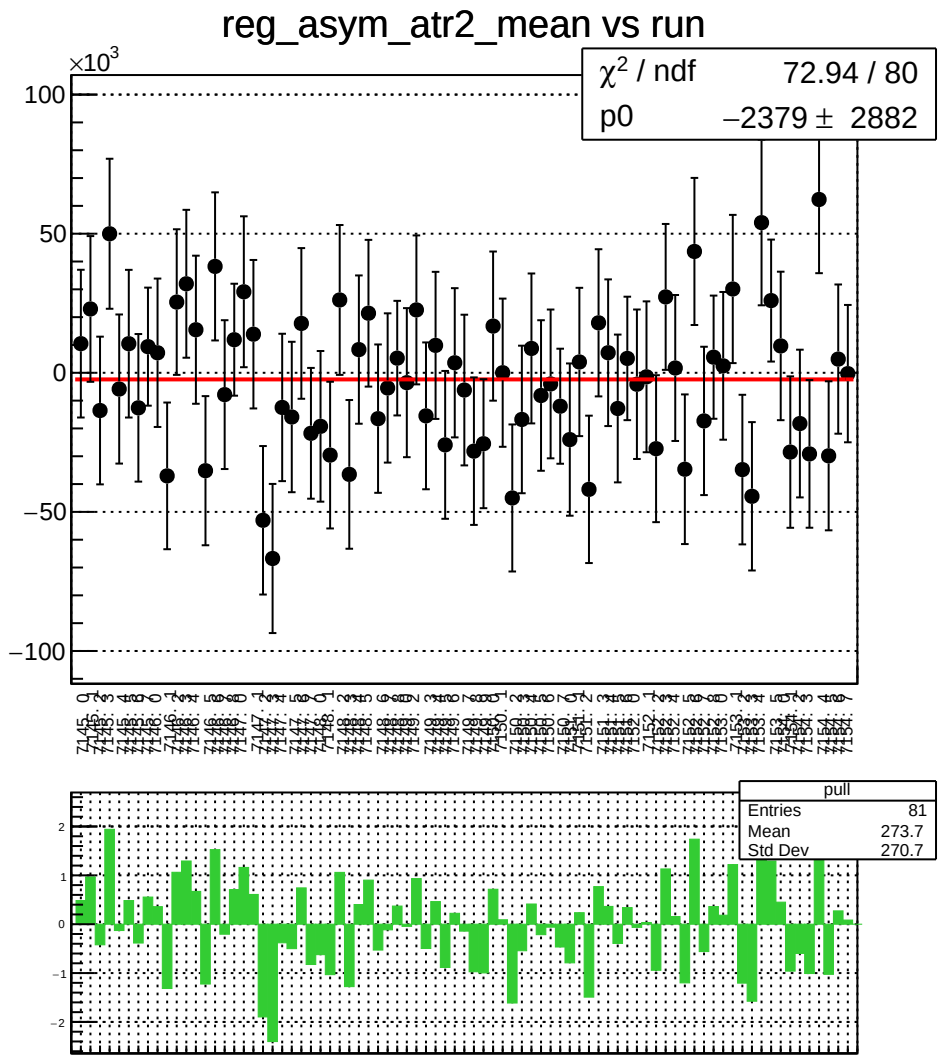

asym_atr1_correction_mean vs run
χ² / ndf 70.19 / 80
p0 −1576 ± 908.3
pull
Entries 81
Mean 215.6
Std Dev 167.6
pull1D
Entries 81
Mean 0.02642
Std Dev 0.9305

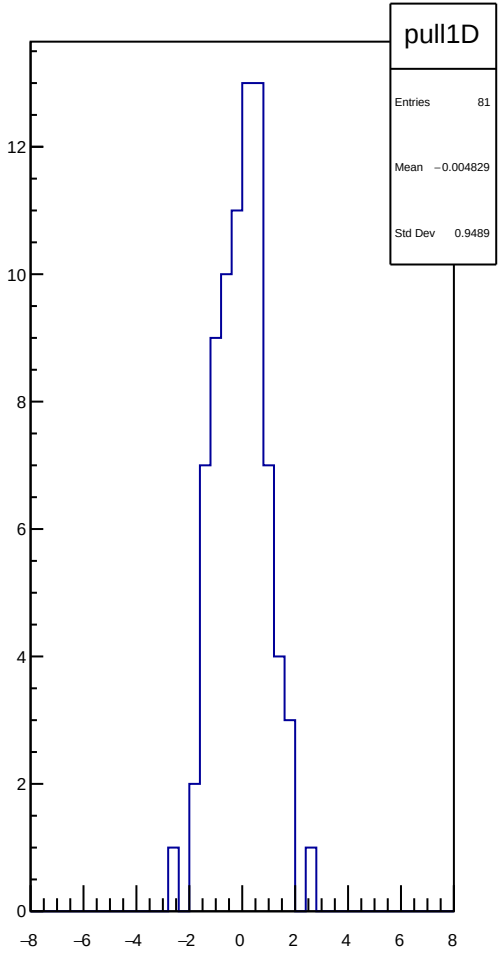

asym_atr1_correction_rms vs run
χ² / ndf 3.344e+04 / 80
p0 789.8 ± 0.6423
1800
1600
1400
1200
1000
800
600

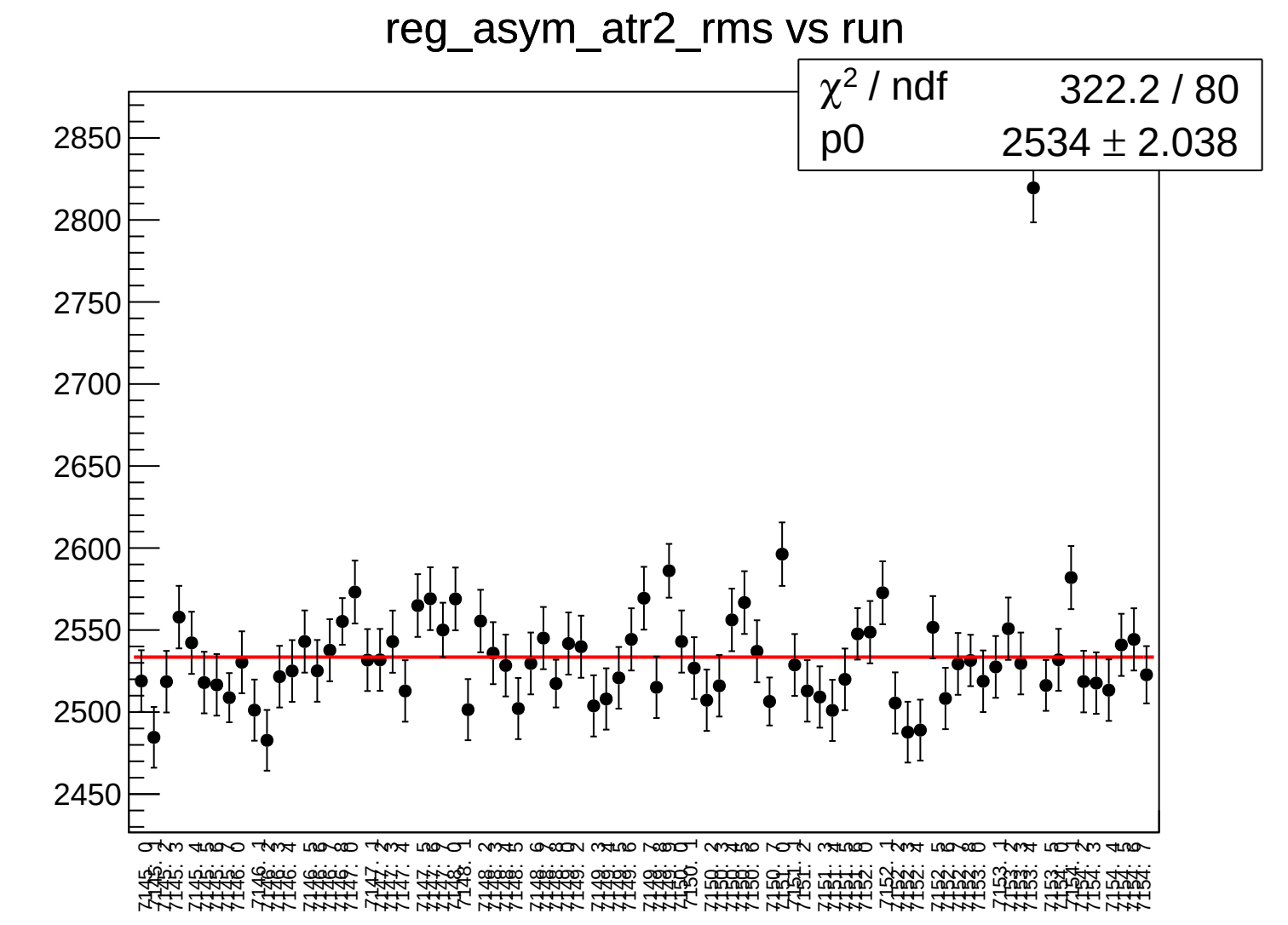

asym_atr1_mean vs run
×10^3
χ² / ndf 66.81 / 80
p0 8200 ± 3306
100
50
0
−50
−100
pull
Entries 81
Mean 374.3
Std Dev 323
2
1
0
−1
−2

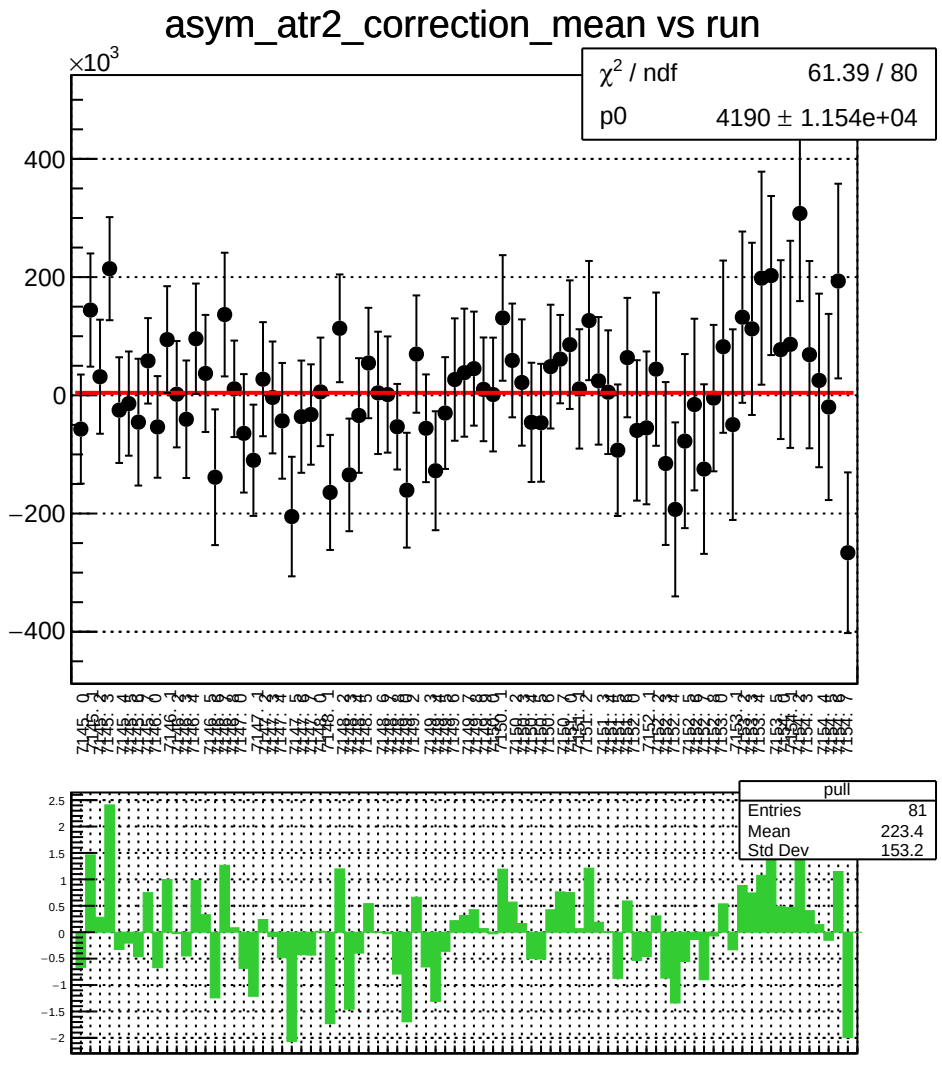

pull1D
Entries 81
Mean 0.005392
Std Dev 0.9082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

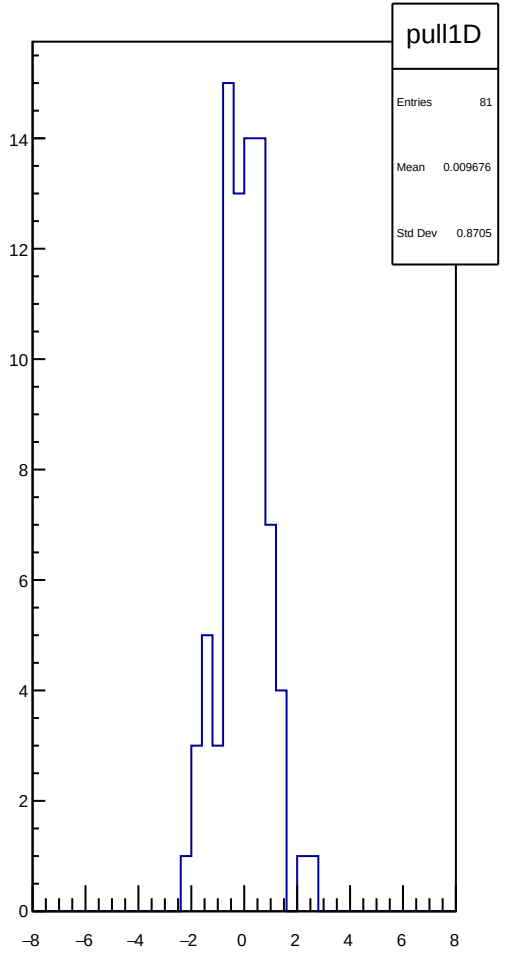

asym_atr1_rms vs run
χ² / ndf 751.5 / 80
p0 2905 ± 2.338
3500
3400
3300
3200
3100
3000
2900
2800

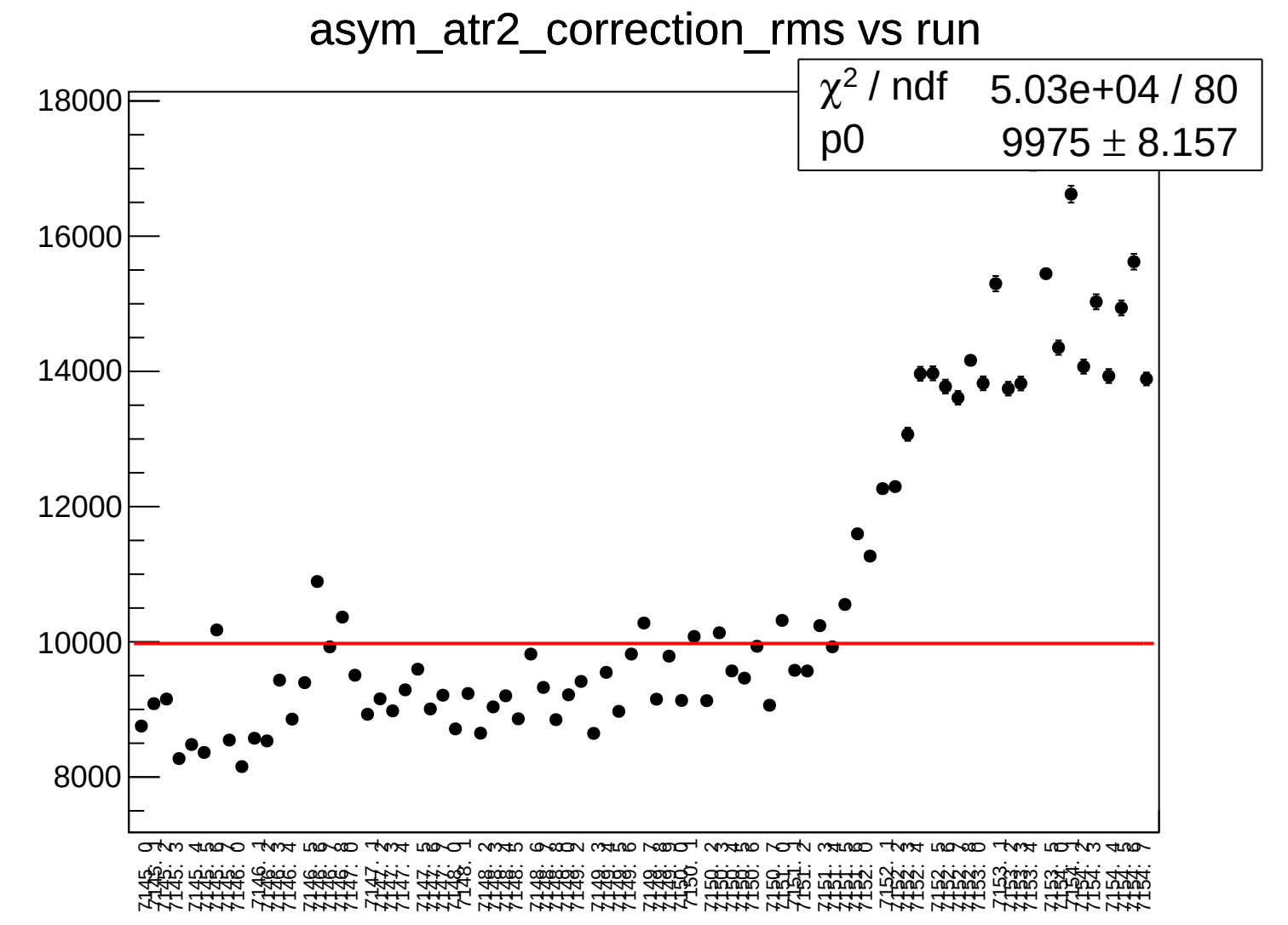

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 72.94 / 80
p0 −2379 ± 2882
100
50
0
−50
−100
pull
Entries 81
Mean 273.7
Std Dev 270.7
2
1
0
−1
−2

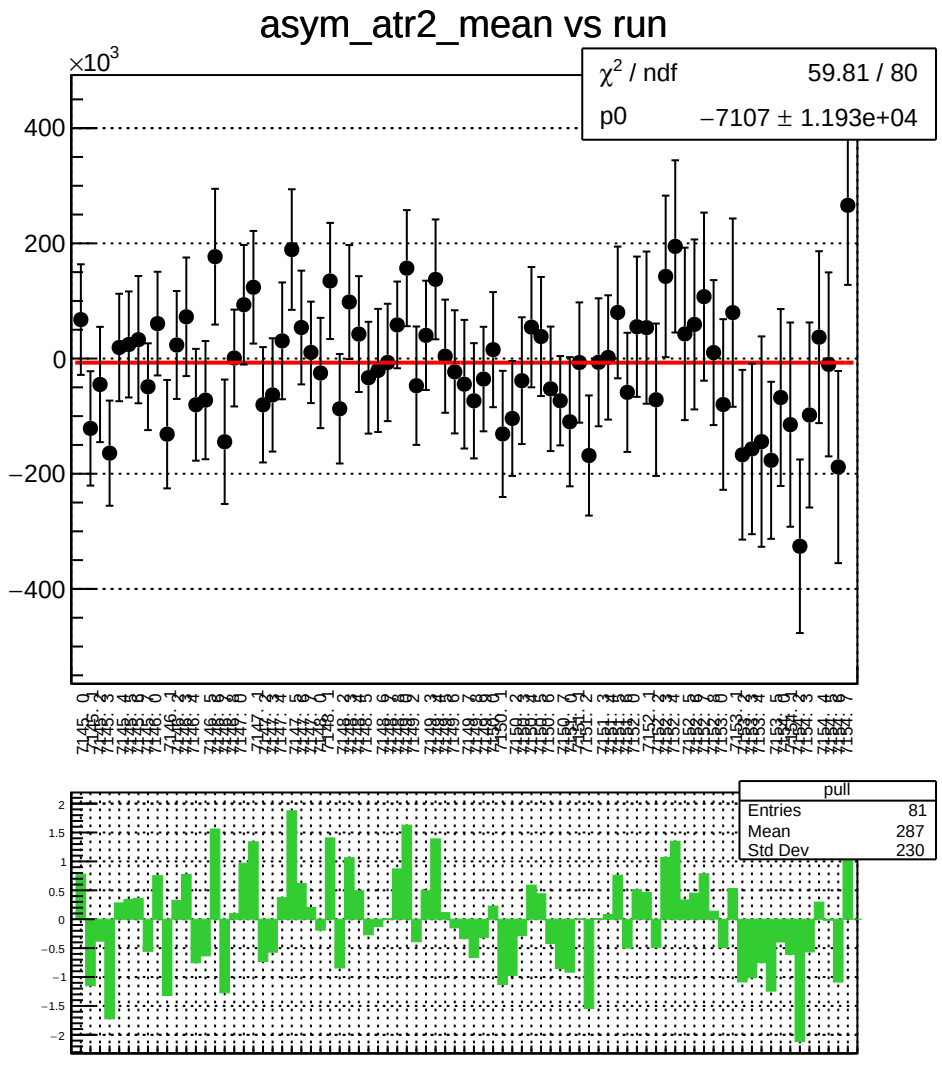

pull1D
Entries 81
Mean −0.004829
Std Dev 0.9489
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

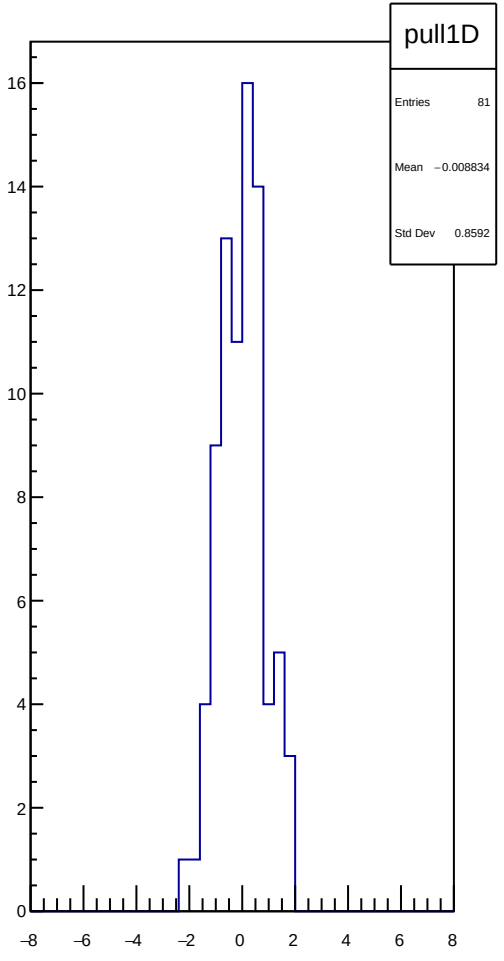

reg_asym_atr2_rms vs run
χ^2 / ndf 322.2 / 80
p0 2534 ± 2.038
2850
2800
2750
2700
2650
2600
2550
2500
2450

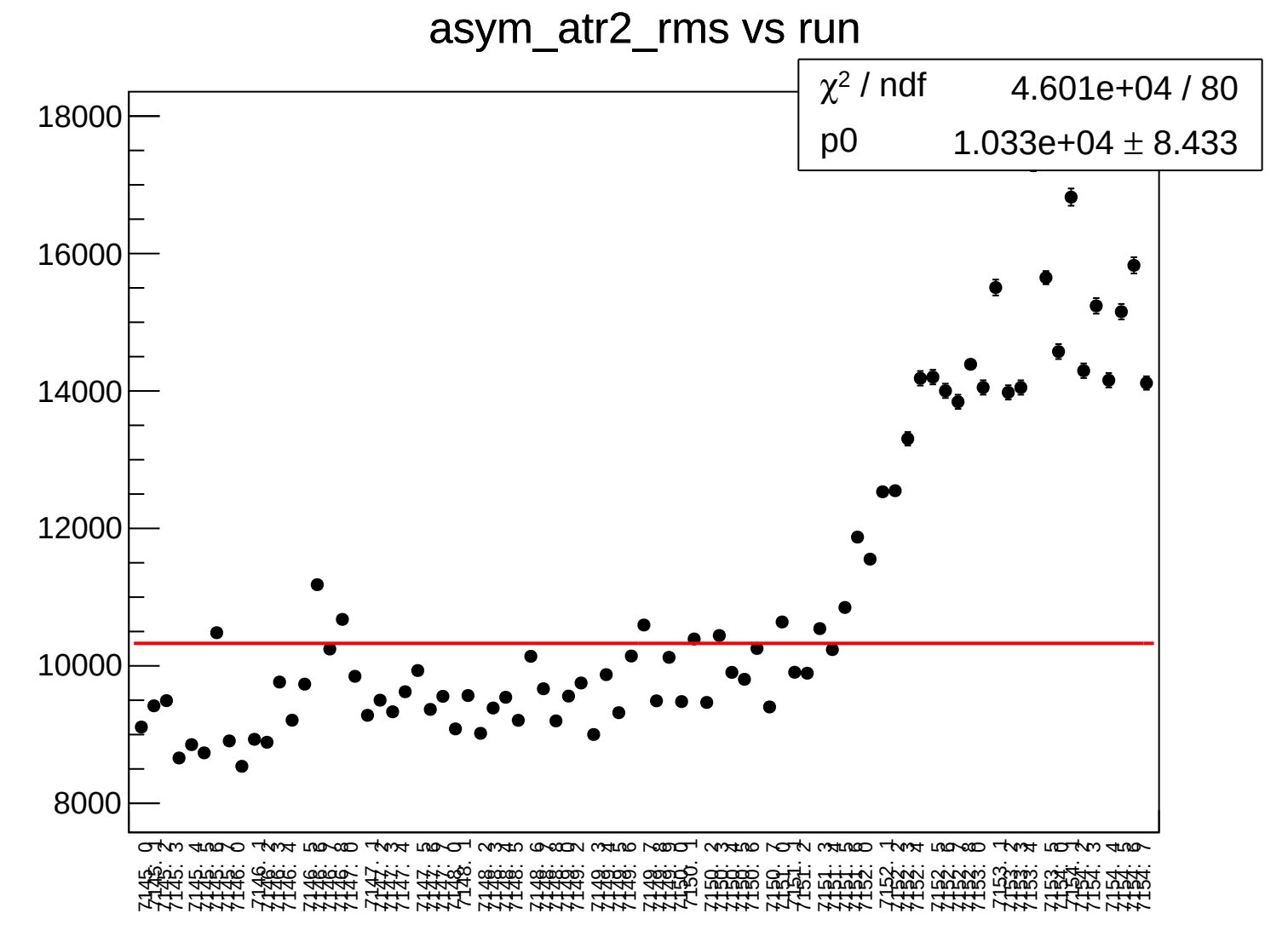

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 61.39 / 80
p0 4190 ± 1.154e+04
400
200
0
−200
−400
pull
Entries 81
Mean 223.4
Std Dev 153.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

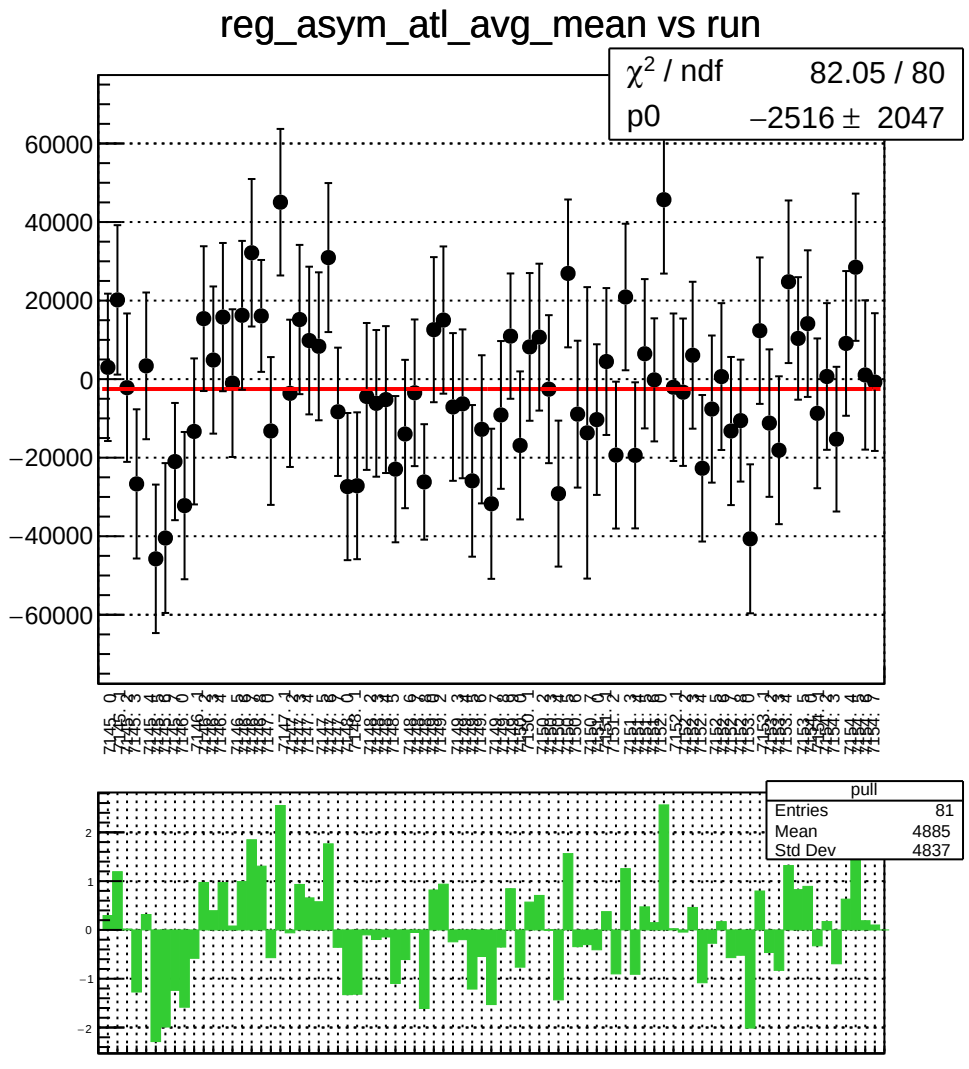

pull1D
Entries 81
Mean 0.009676
Std Dev 0.8705
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

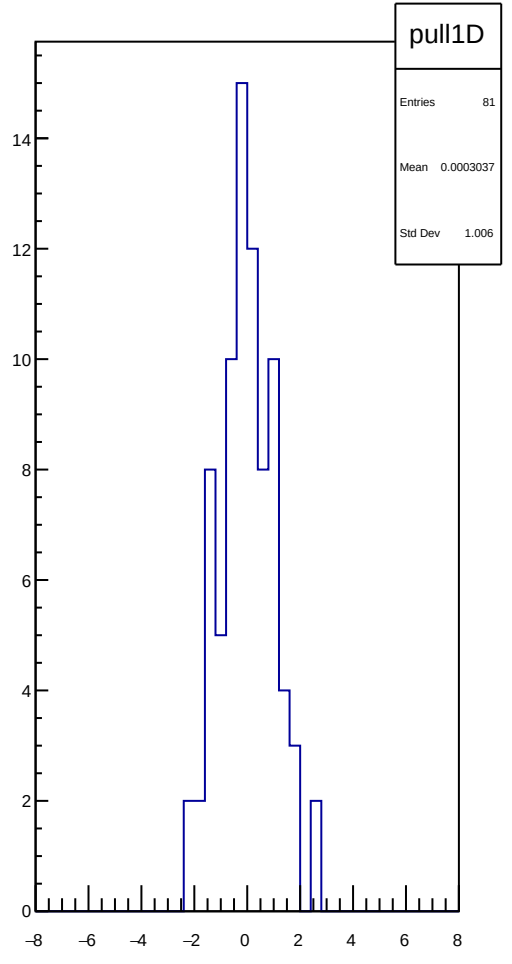

asym_atr2_correction_rms vs run
χ² / ndf 5.03e+04 / 80
p0 9975 ± 8.157
18000
16000
14000
12000
10000
8000

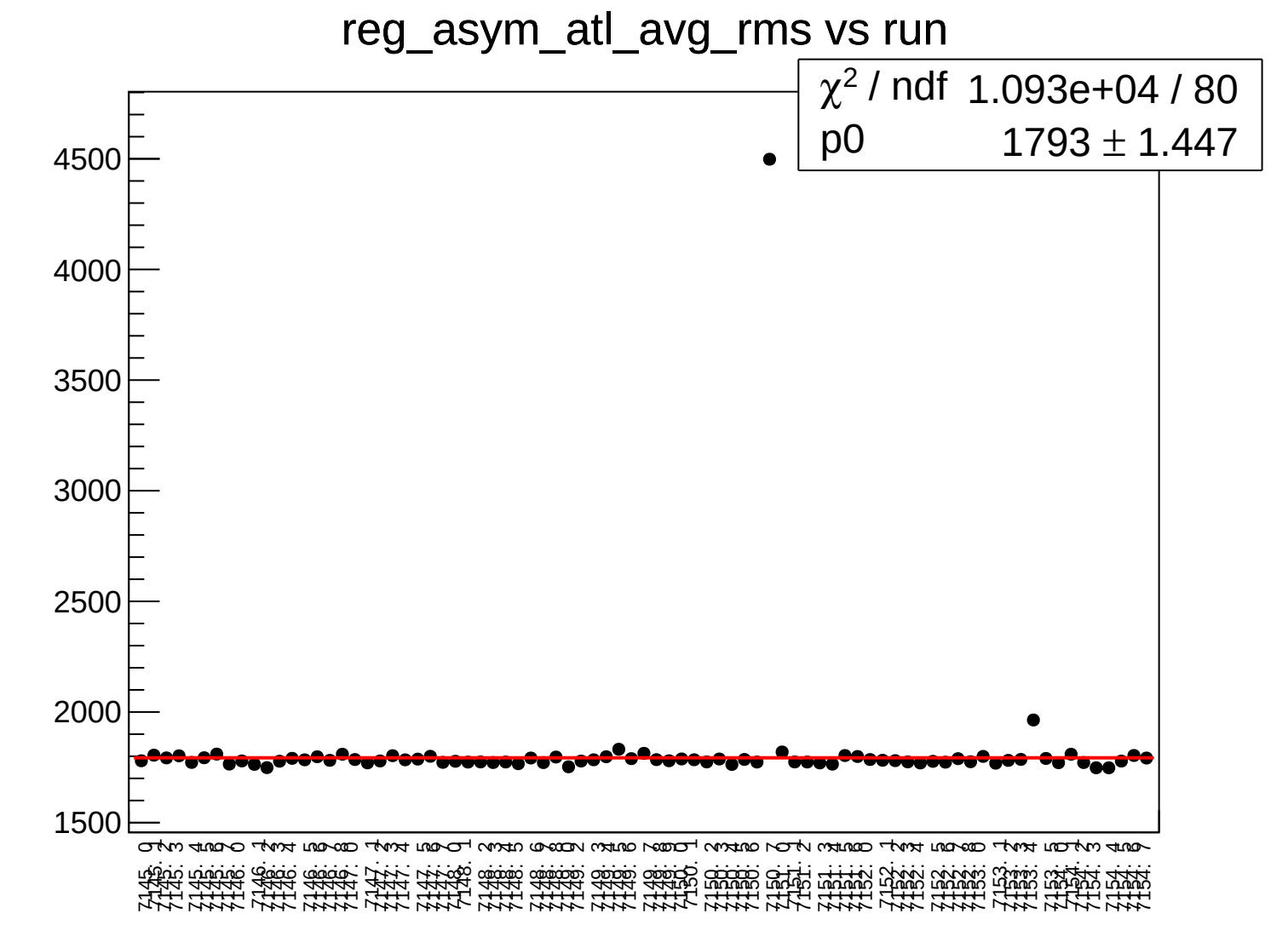

asym_atr2_mean vs run
×10^3
χ² / ndf 59.81 / 80
p0 −7107 ± 1.193e+04
400
200
0
−200
−400
pull
Entries 81
Mean 287
Std Dev 230
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

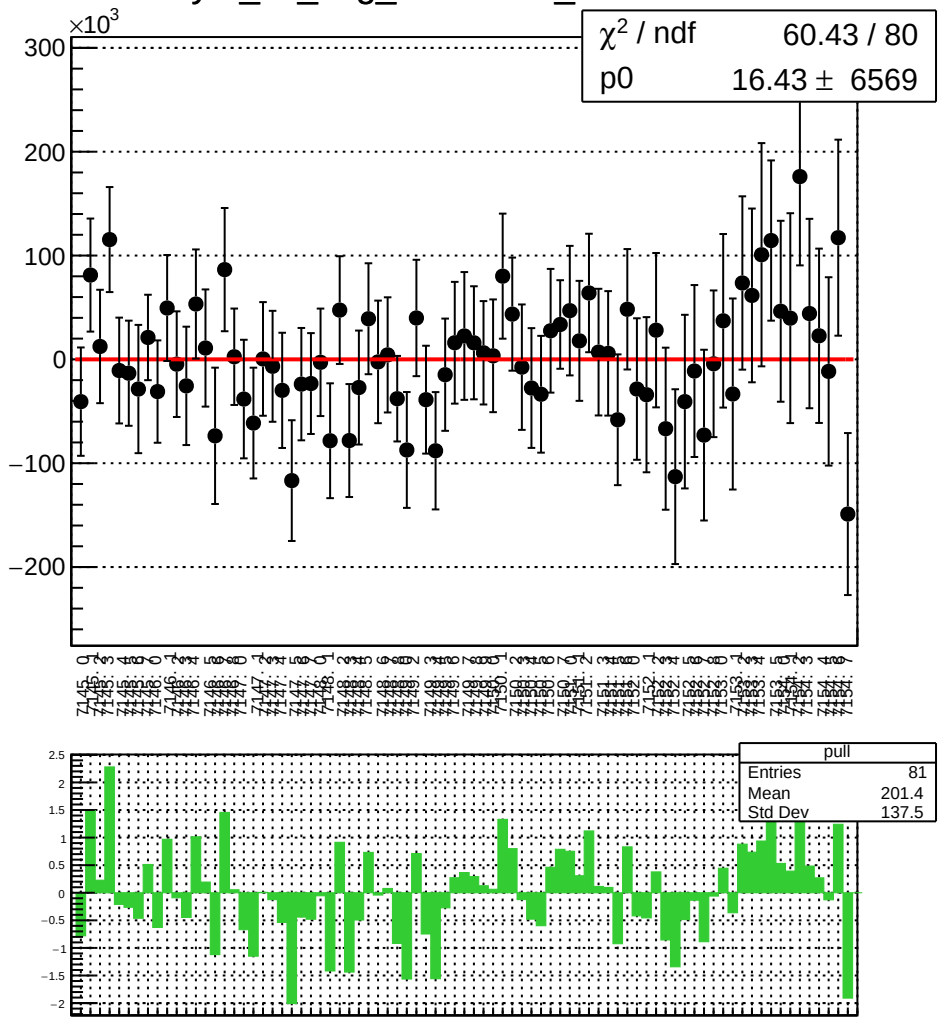

pull1D
Entries 81
Mean −0.008834
Std Dev 0.8592
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

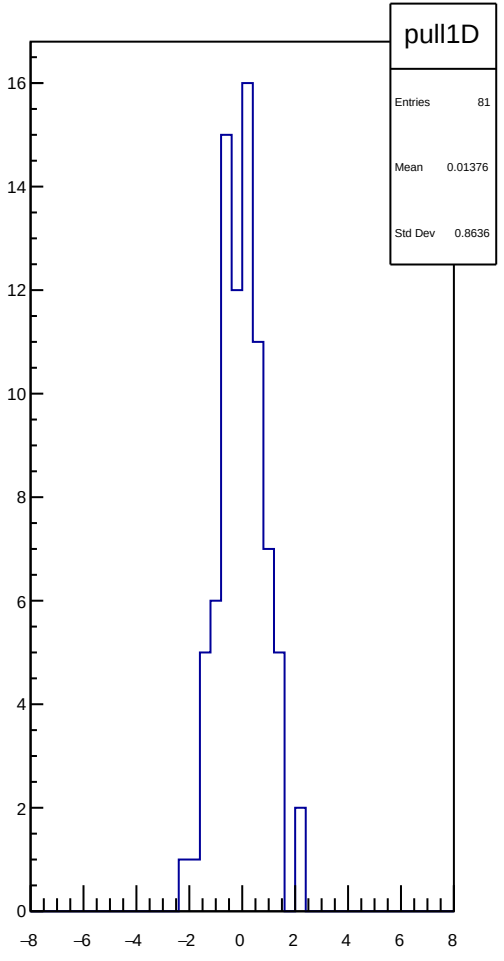

asym_atr2_rms vs run
χ² / ndf 4.601e+04 / 80
p0 1.033e+04 ± 8.433
18000
16000
14000
12000
10000
8000

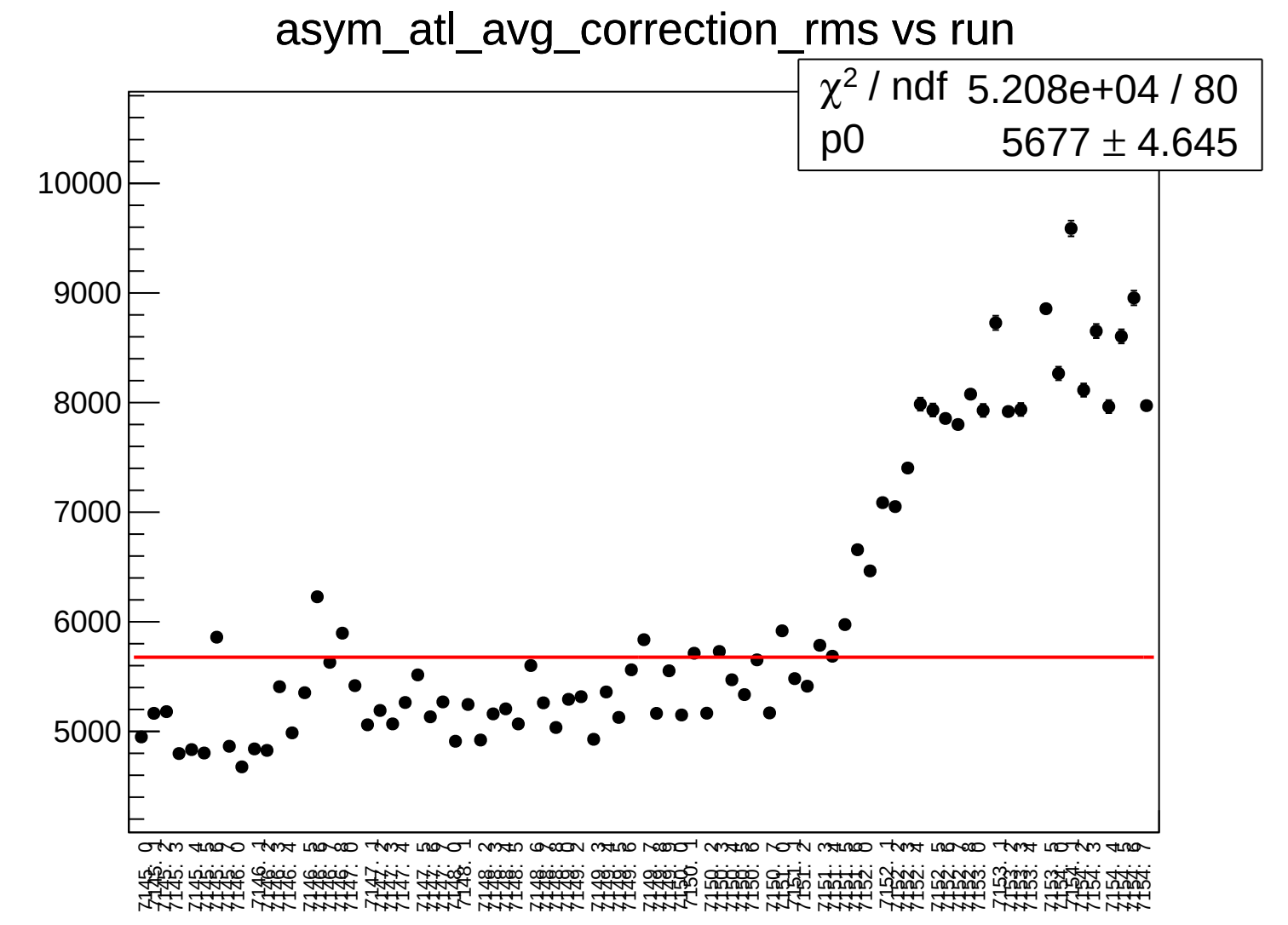

reg_asym_atl_avg_mean vs run
χ² / ndf 82.05 / 80
p0 −2516 ± 2047
pull
Entries 81
Mean 4885
Std Dev 4837

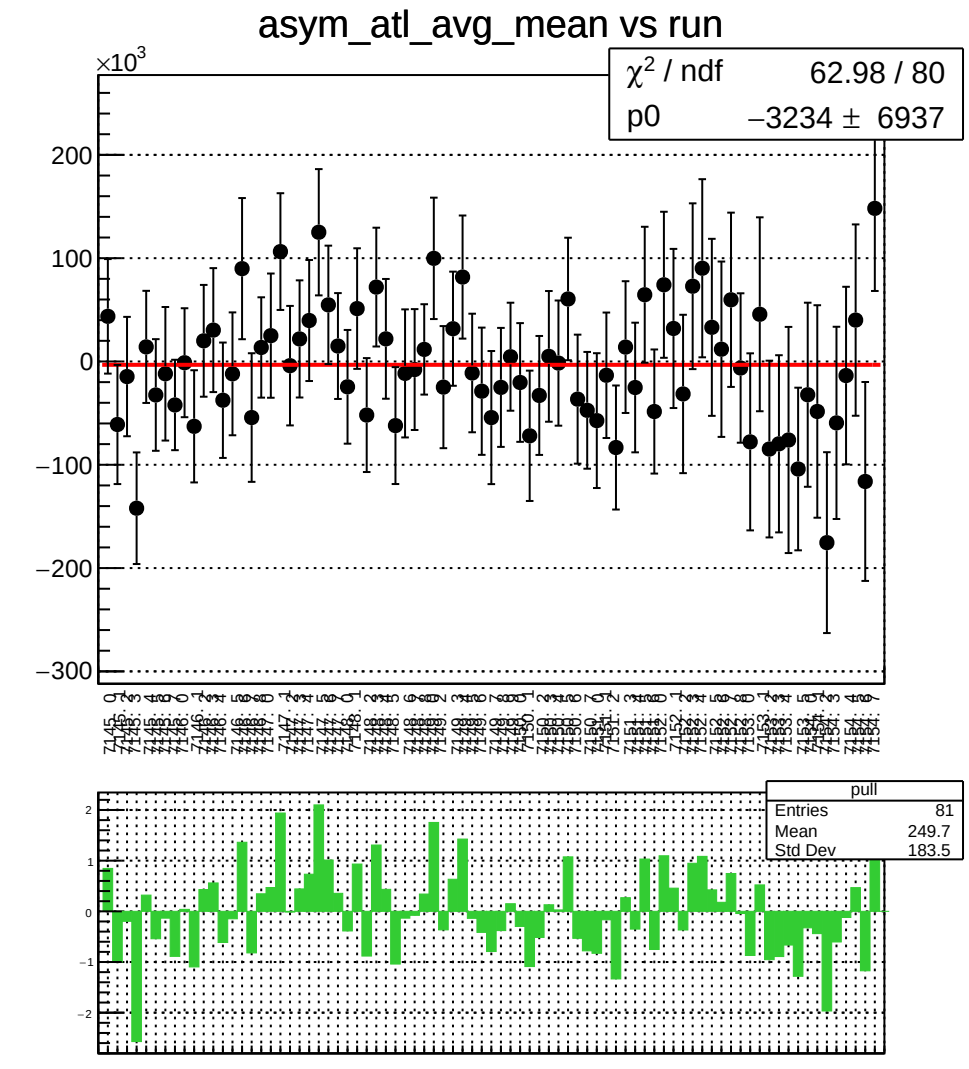

pull1D
Entries 81
Mean 0.0003037
Std Dev 1.006

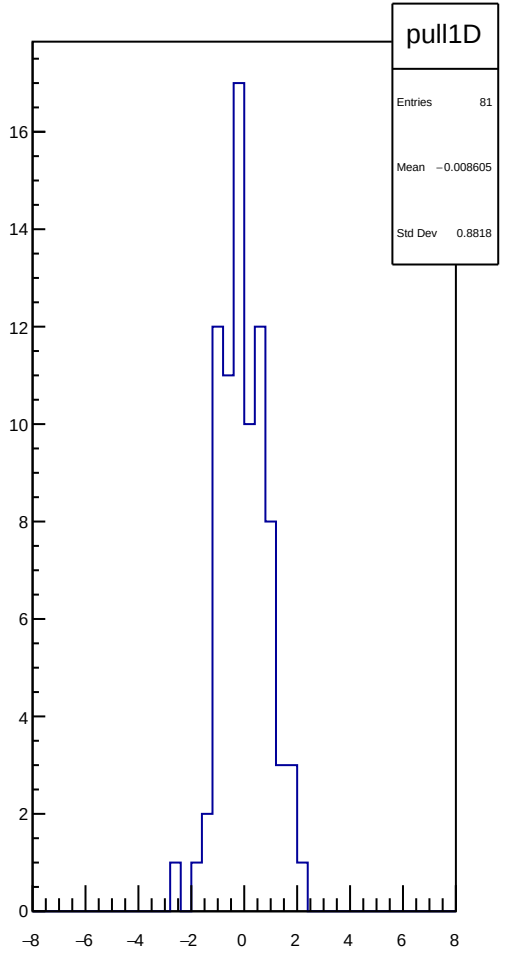

reg_asym_atl_avg_rms vs run
χ² / ndf 1.093e+04 / 80
p0 1793 ± 1.447
4500
4000
3500
3000
2500
2000
1500

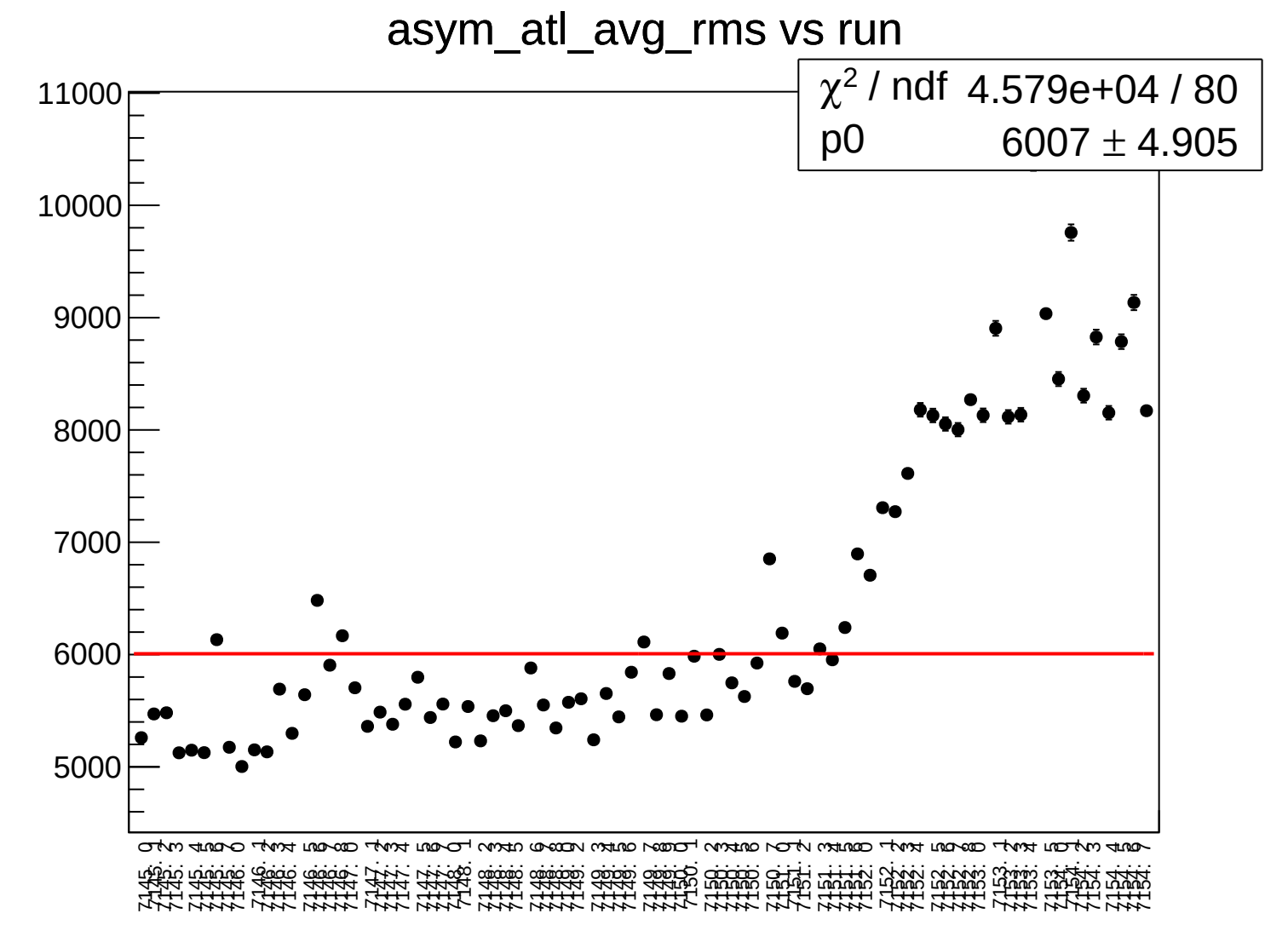

asym_atl_avg_correction_mean vs run
×10^3
χ^2 / ndf 60.43 / 80
p0 16.43 ± 6569
pull
Entries 81
Mean 201.4
Std Dev 137.5

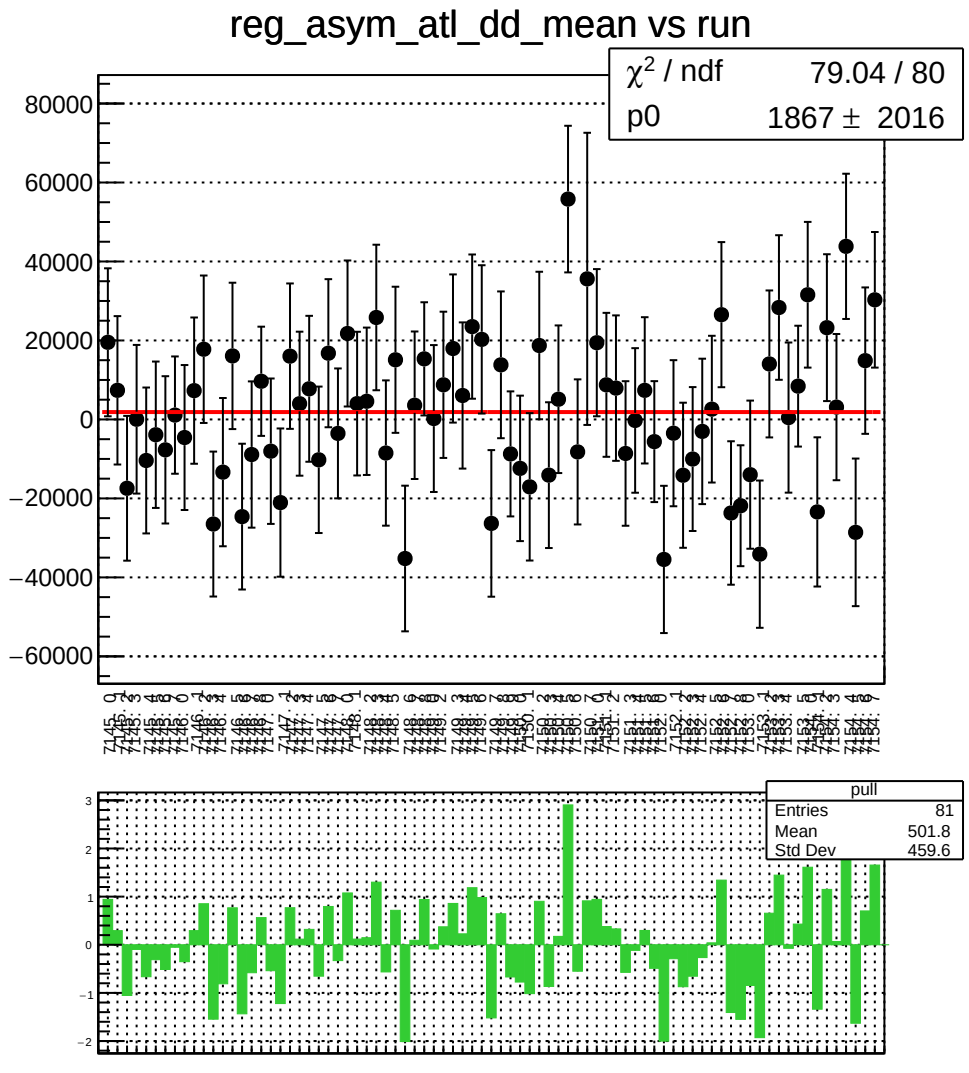

pull1D
Entries 81
Mean 0.01376
Std Dev 0.8636

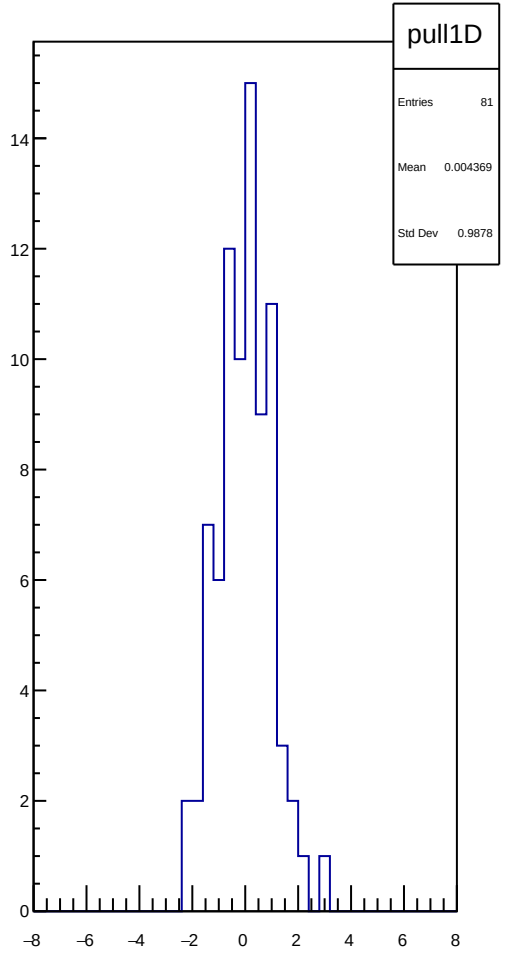

asym_atl_avg_correction_rms vs run
χ² / ndf 5.208e+04 / 80
p0 5677 ± 4.645
10000
9000
8000
7000
6000
5000

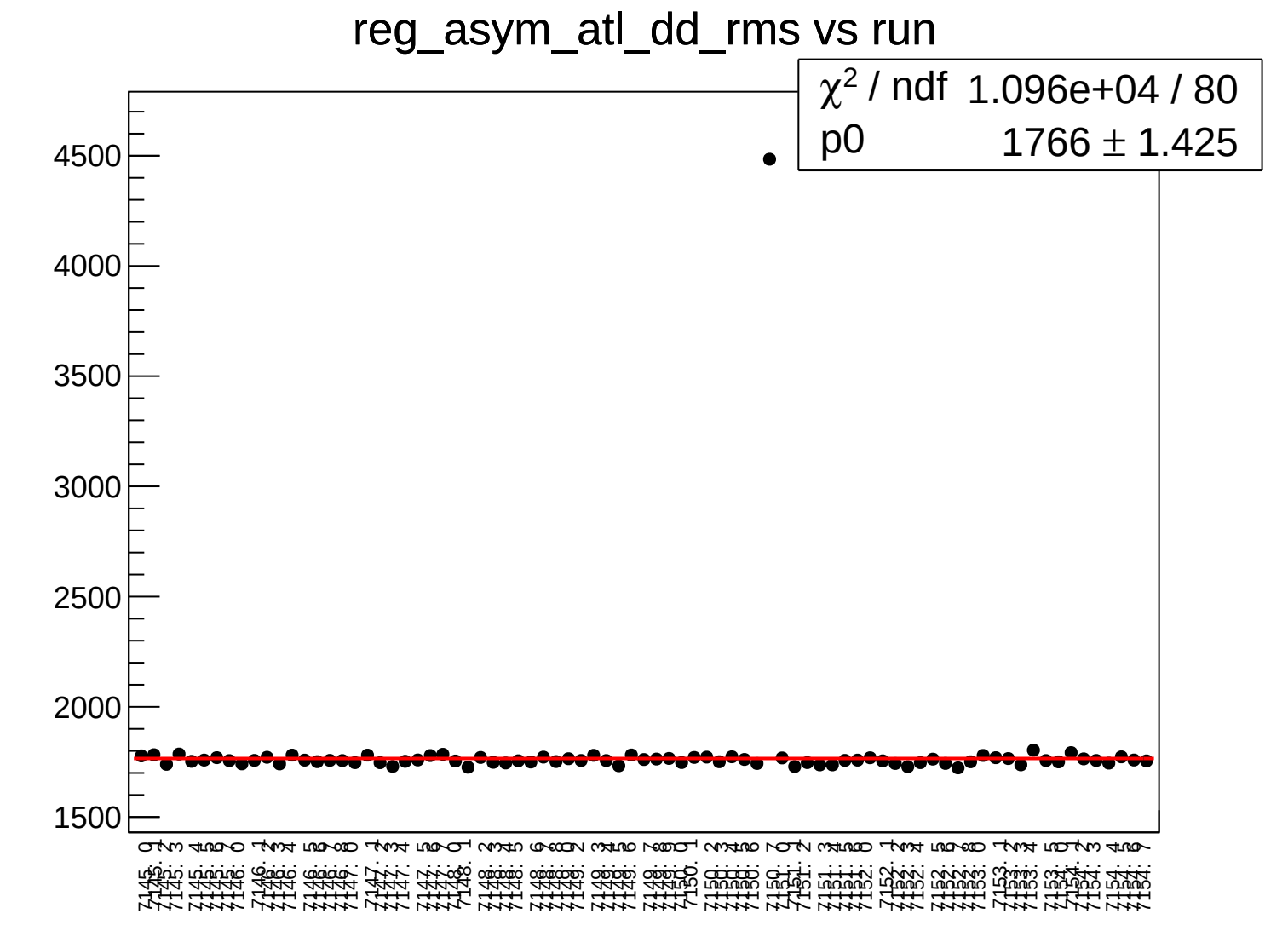

asym_atl_avg_mean vs run
×10^3
χ² / ndf 62.98 / 80
p0 −3234 ± 6937
200
100
0
−100
−200
−300
pull
Entries 81
Mean 249.7
Std Dev 183.5
2
1
0
−1
−2

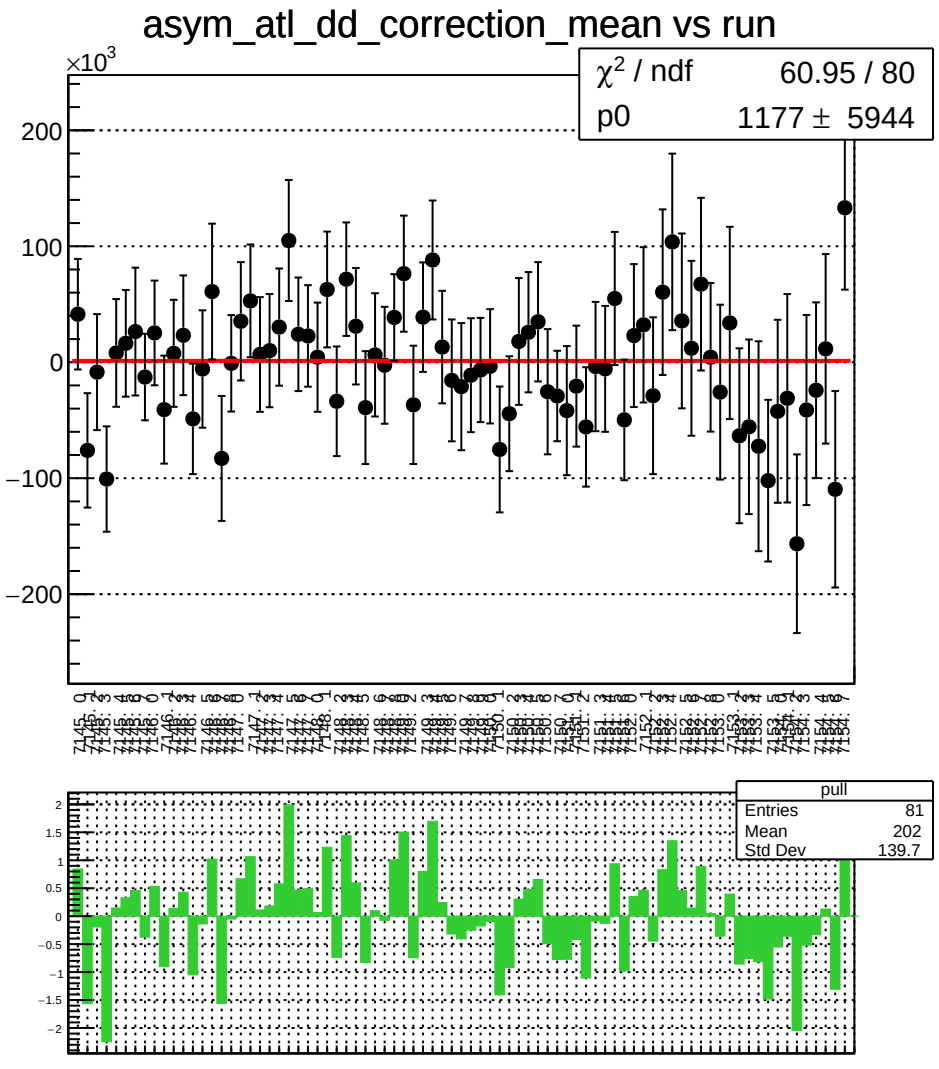

pull1D
Entries 81
Mean −0.008605
Std Dev 0.8818
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

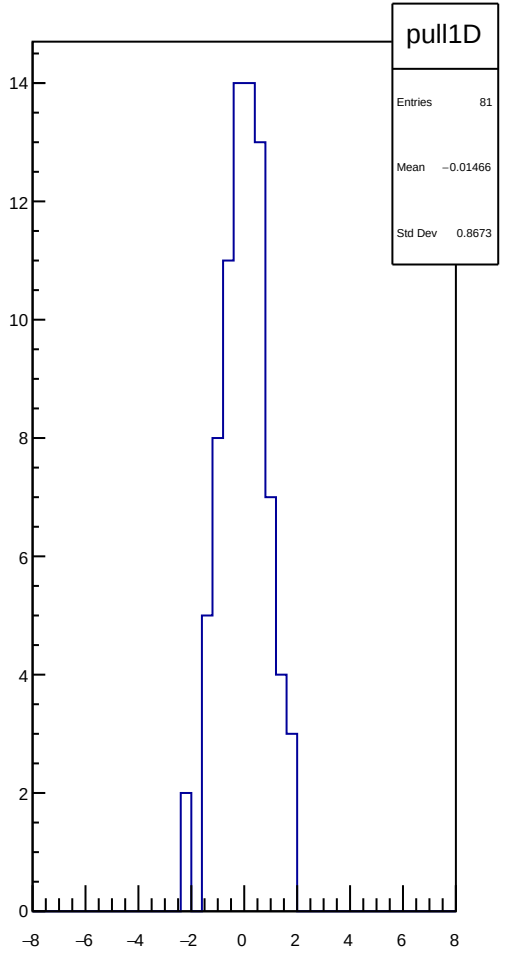

asym_atl_avg_rms vs run
χ² / ndf 4.579e+04 / 80
p0 6007 ± 4.905
11000
10000
9000
8000
7000
6000
5000

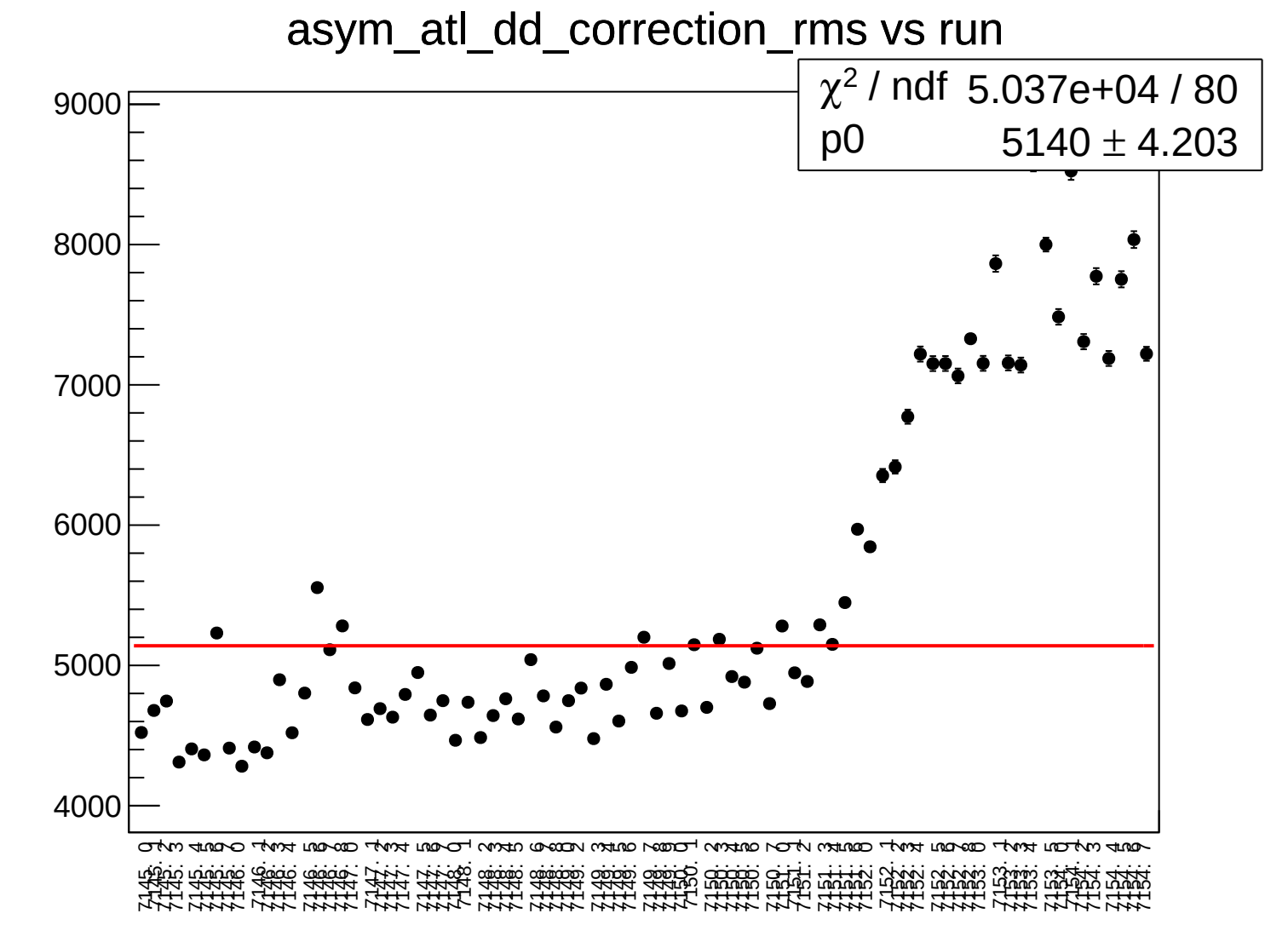

reg_asym_atl_dd_mean vs run
χ² / ndf 79.04 / 80
p0 1867 ± 2016
pull
Entries 81
Mean 501.8
Std Dev 459.6

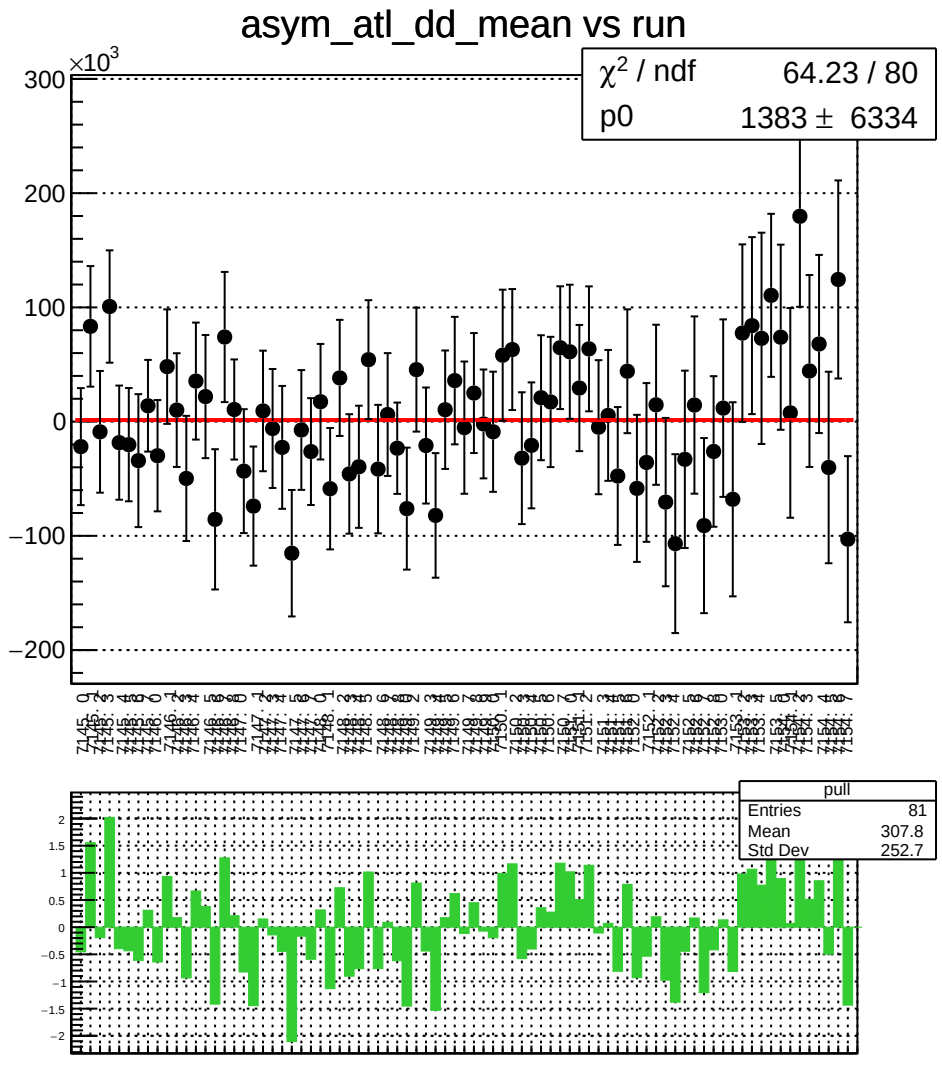

pull1D
Entries 81
Mean 0.004369
Std Dev 0.9878

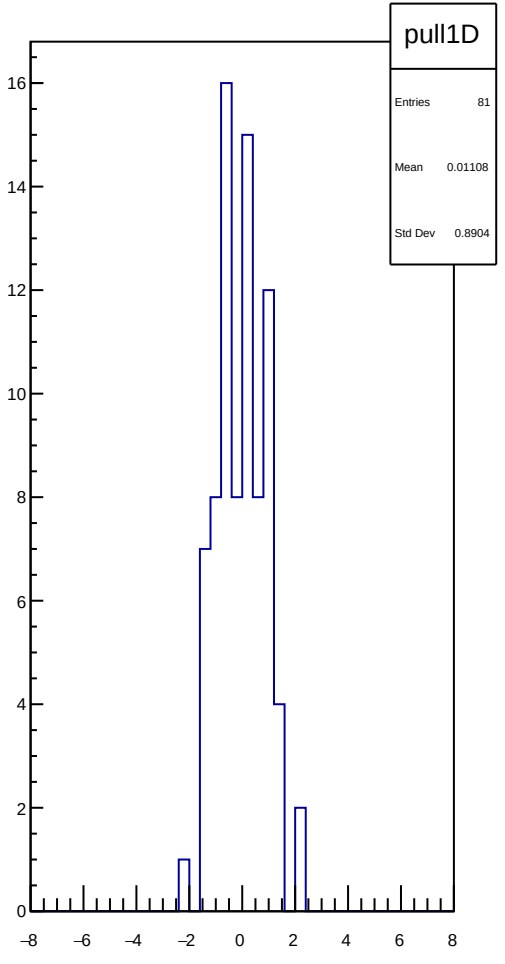

reg_asym_atl_dd_rms vs run
χ^2 / ndf 1.096e+04 / 80
p0 1766 ± 1.425
4500
4000
3500
3000
2500
2000
1500

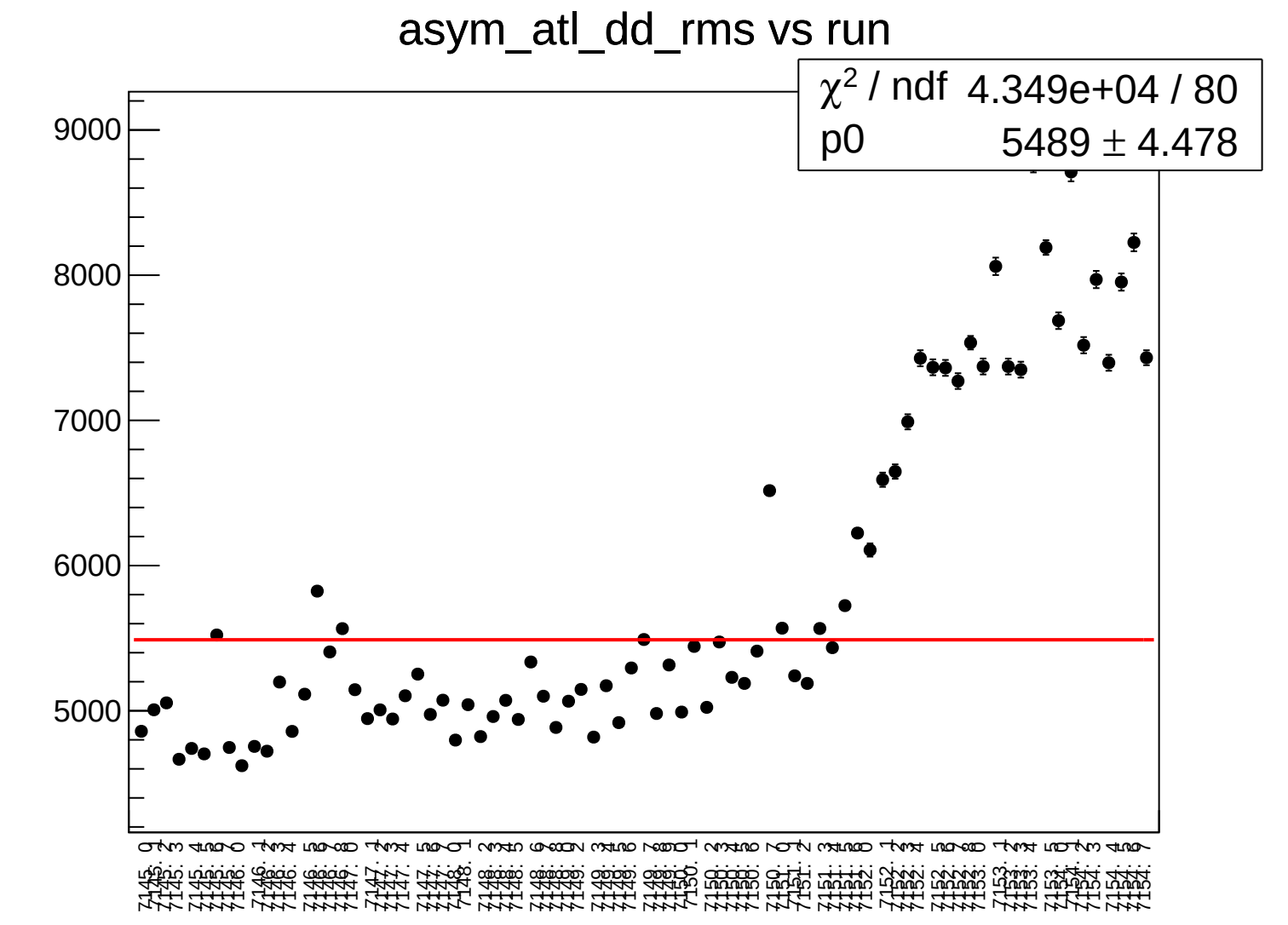

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 60.95 / 80
p0 1177 ± 5944
200
100
0
−100
−200
pull
Entries 81
Mean 202
Std Dev 139.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

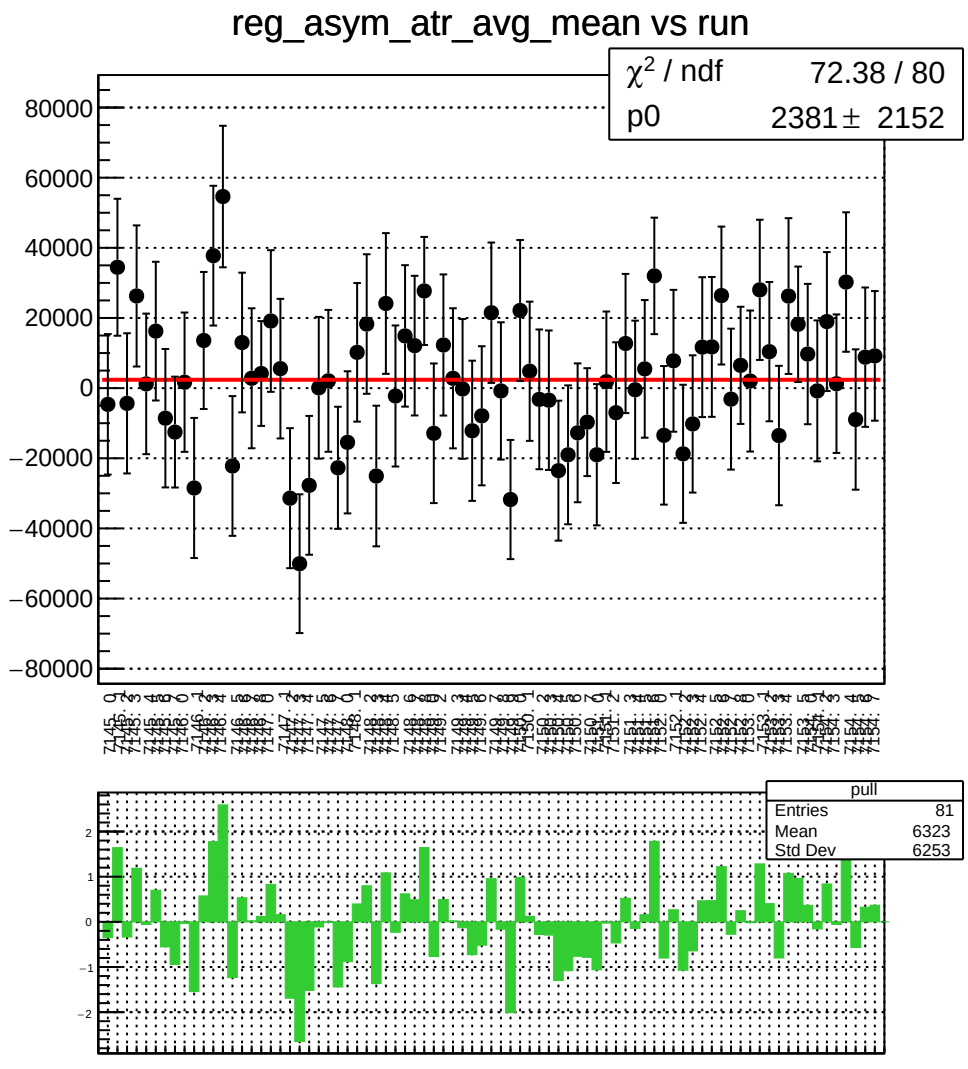

pull1D
Entries 81
Mean −0.01466
Std Dev 0.8673
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

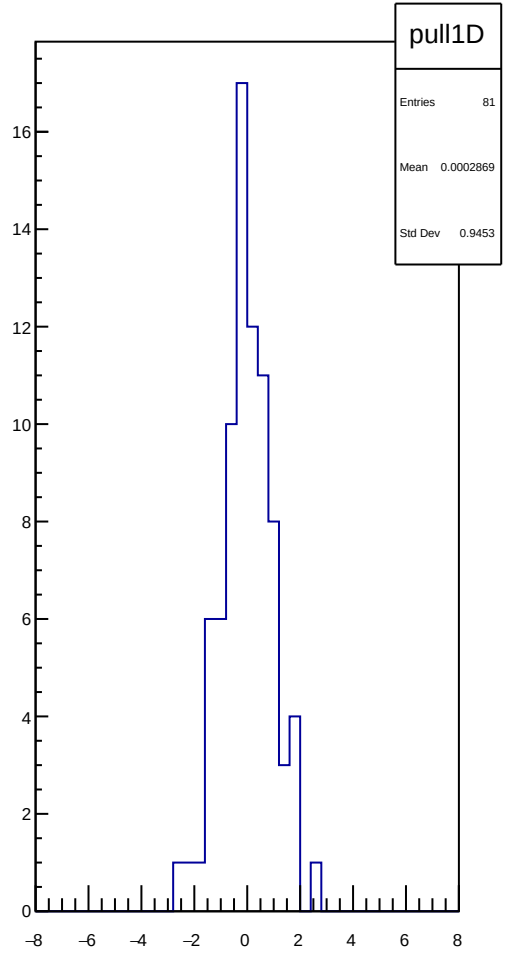

asym_atl_dd_correction_rms vs run
χ² / ndf 5.037e+04 / 80
p0 5140 ± 4.203
9000
8000
7000
6000
5000
4000

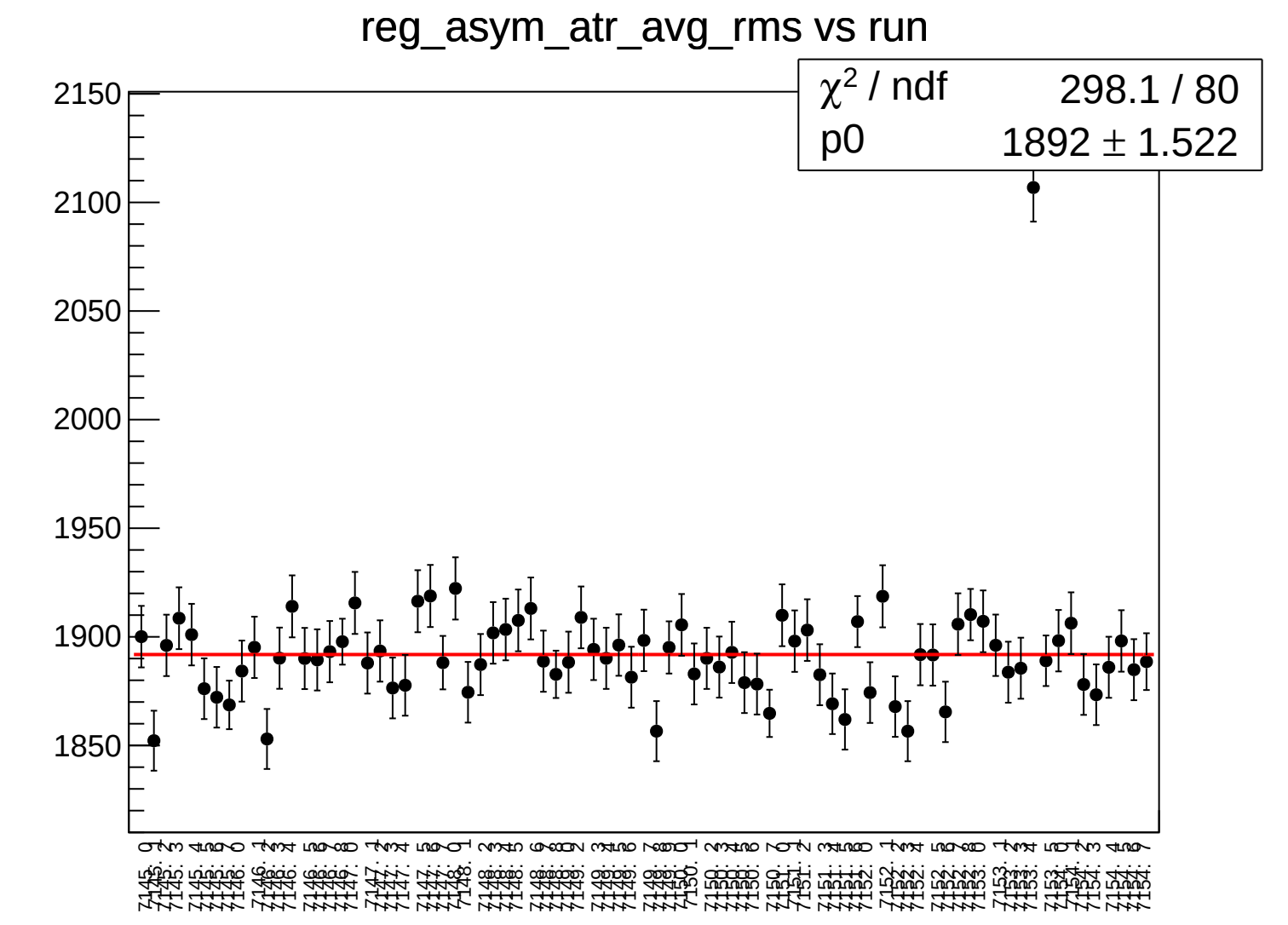

asym_atl_dd_mean vs run
×10^3
χ² / ndf 64.23 / 80
p0 1383 ± 6334
pull
Entries 81
Mean 307.8
Std Dev 252.7

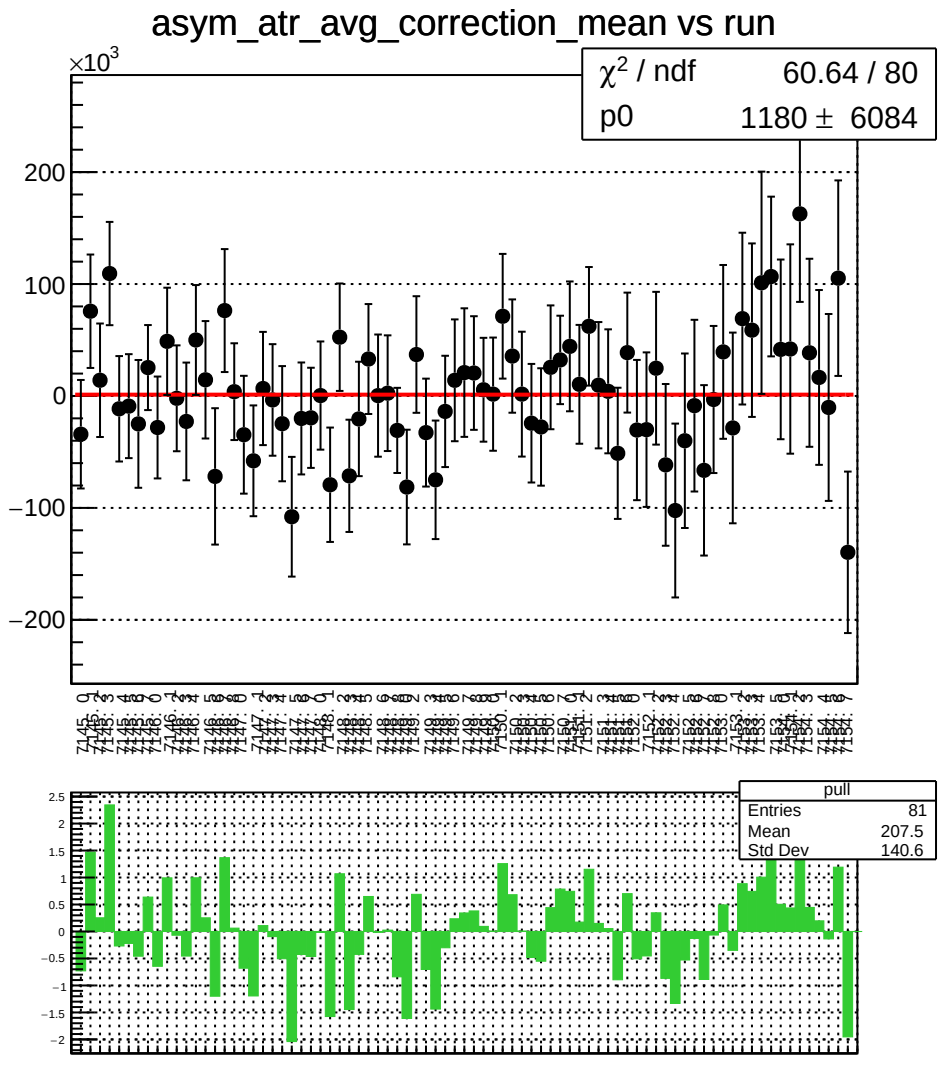

pull1D
Entries 81
Mean 0.01108
Std Dev 0.8904

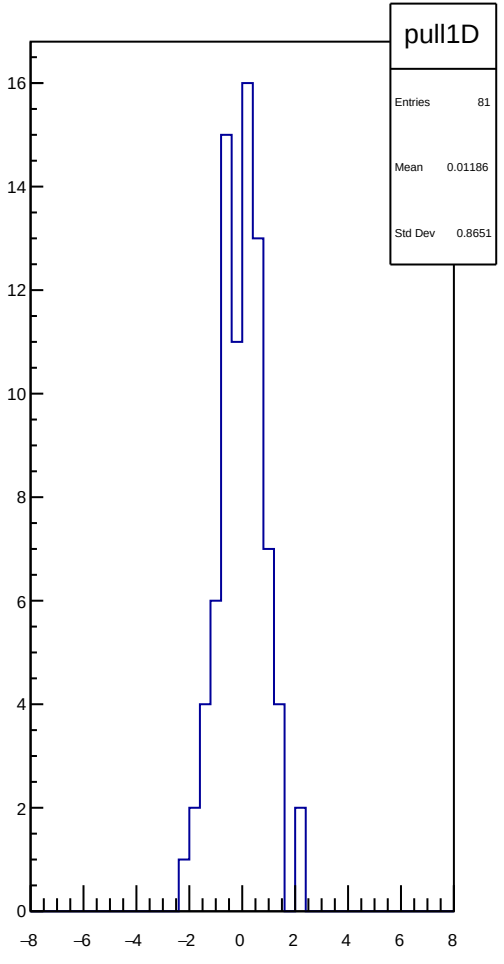

asym_atl_dd_rms vs run
χ² / ndf 4.349e+04 / 80
p0 5489 ± 4.478
9000
8000
7000
6000
5000

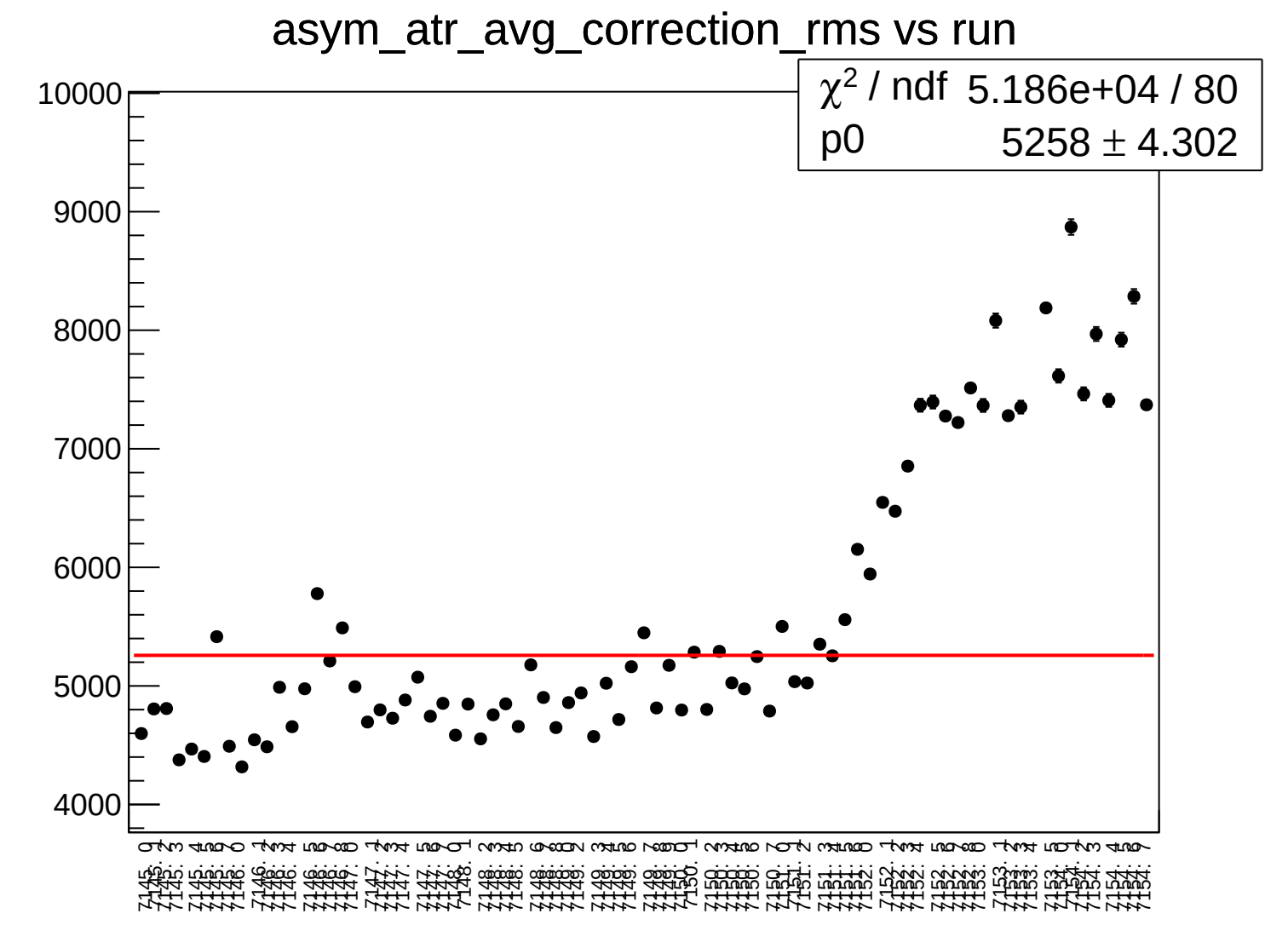

reg_asym_atr_avg_mean vs run
χ² / ndf 72.38 / 80
p0 2381 ± 2152
pull
Entries 81
Mean 6323
Std Dev 6253

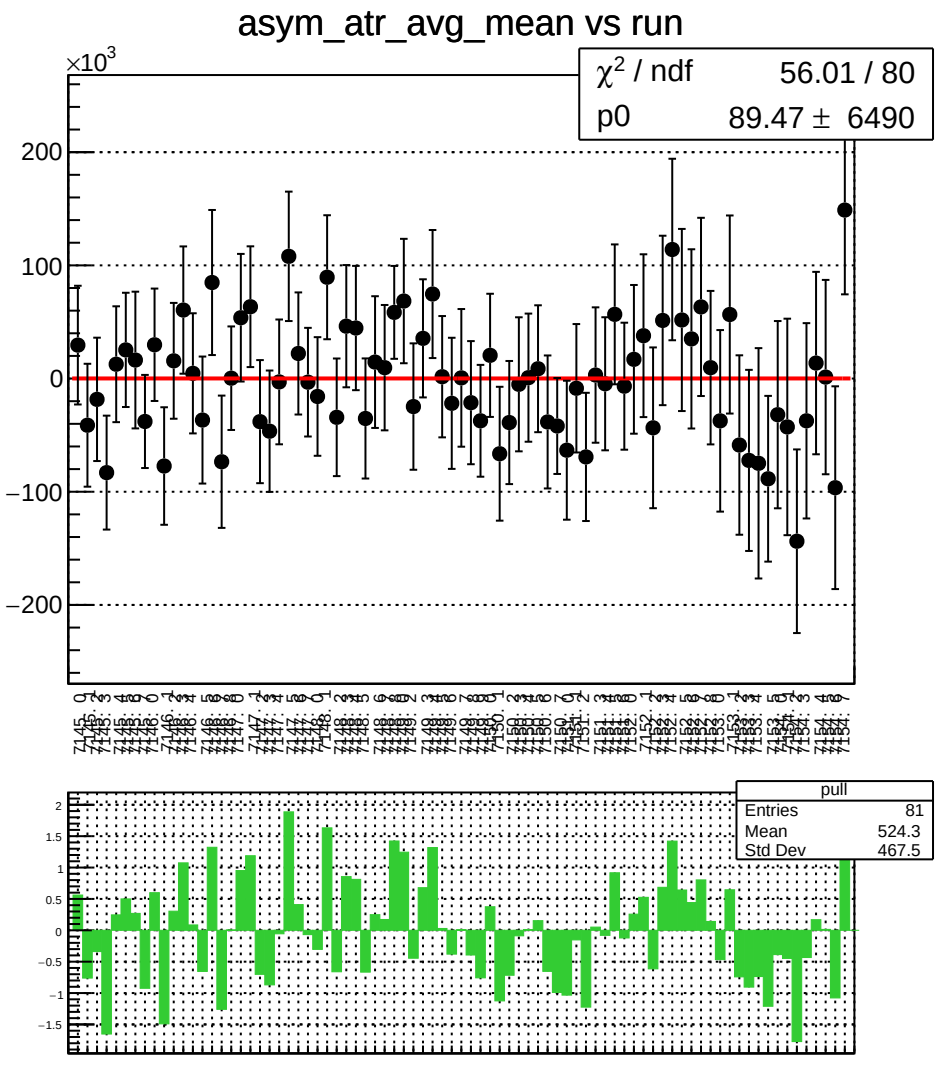

pull1D
Entries 81
Mean 0.0002869
Std Dev 0.9453

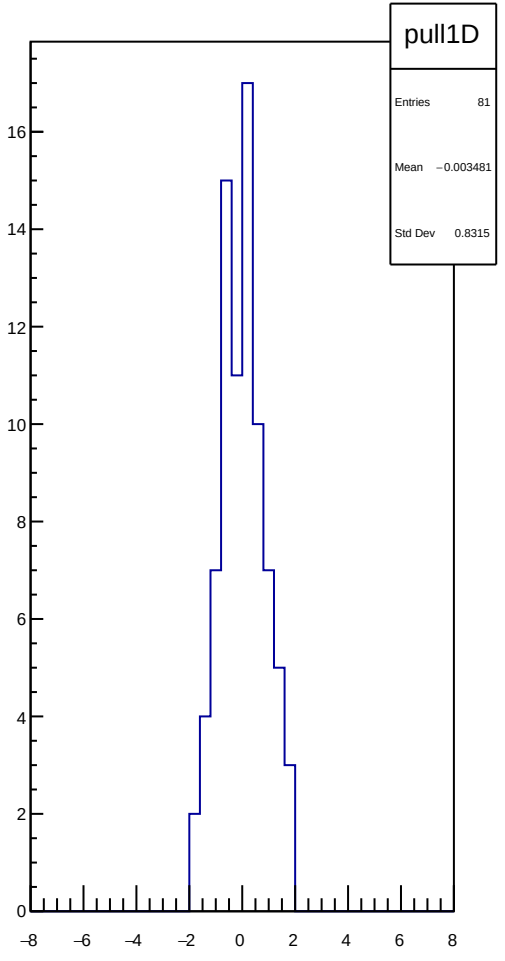

reg_asym_atr_avg_rms vs run
χ² / ndf 298.1 / 80
p0 1892 ± 1.522
2150
2100
2050
2000
1950
1900
1850

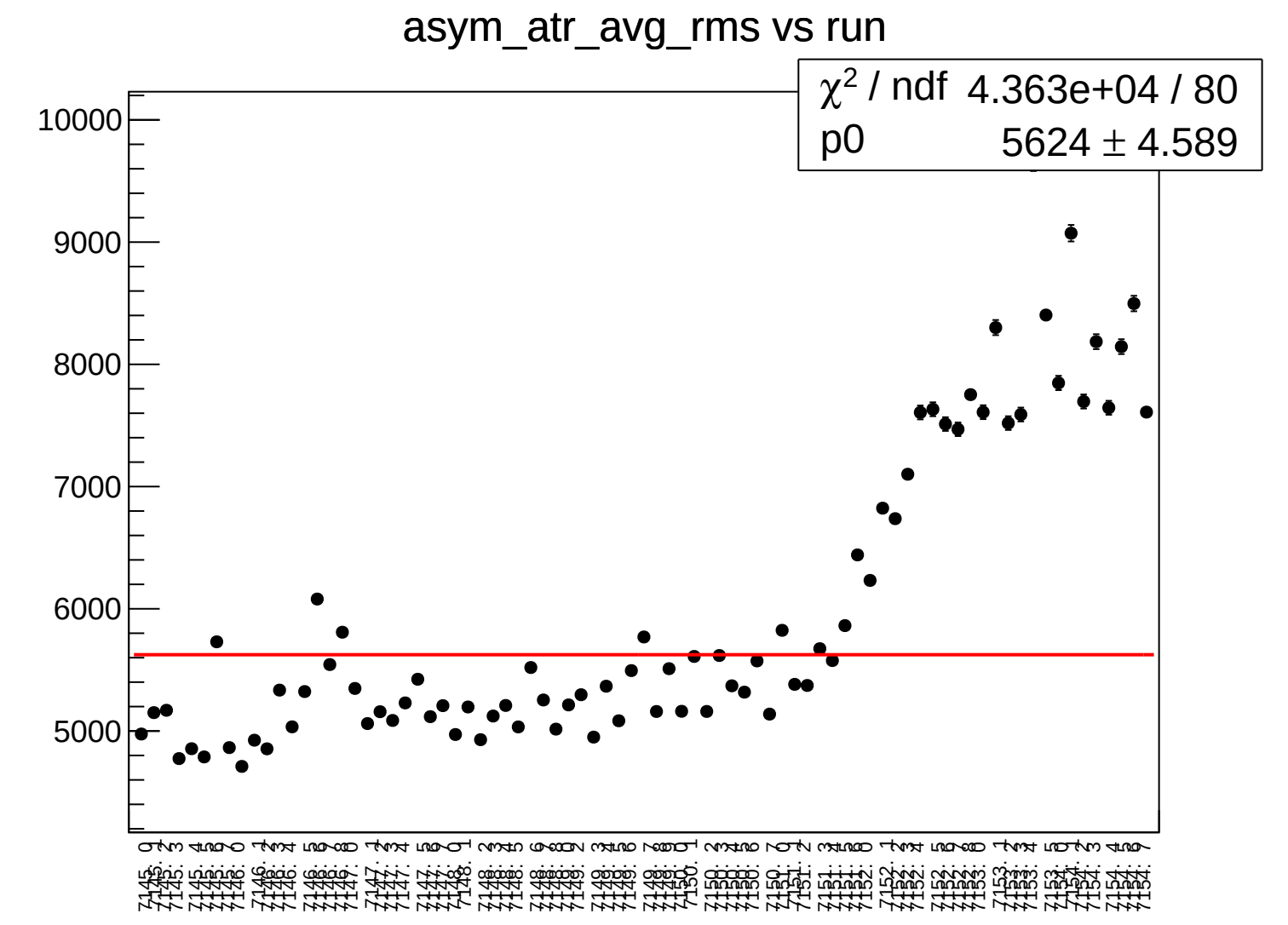

asym_atr_avg_correction_mean vs run
×10^3
χ^2 / ndf 60.64 / 80
p0 1180 ± 6084
200
100
0
−100
−200
pull
Entries 81
Mean 207.5
Std Dev 140.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

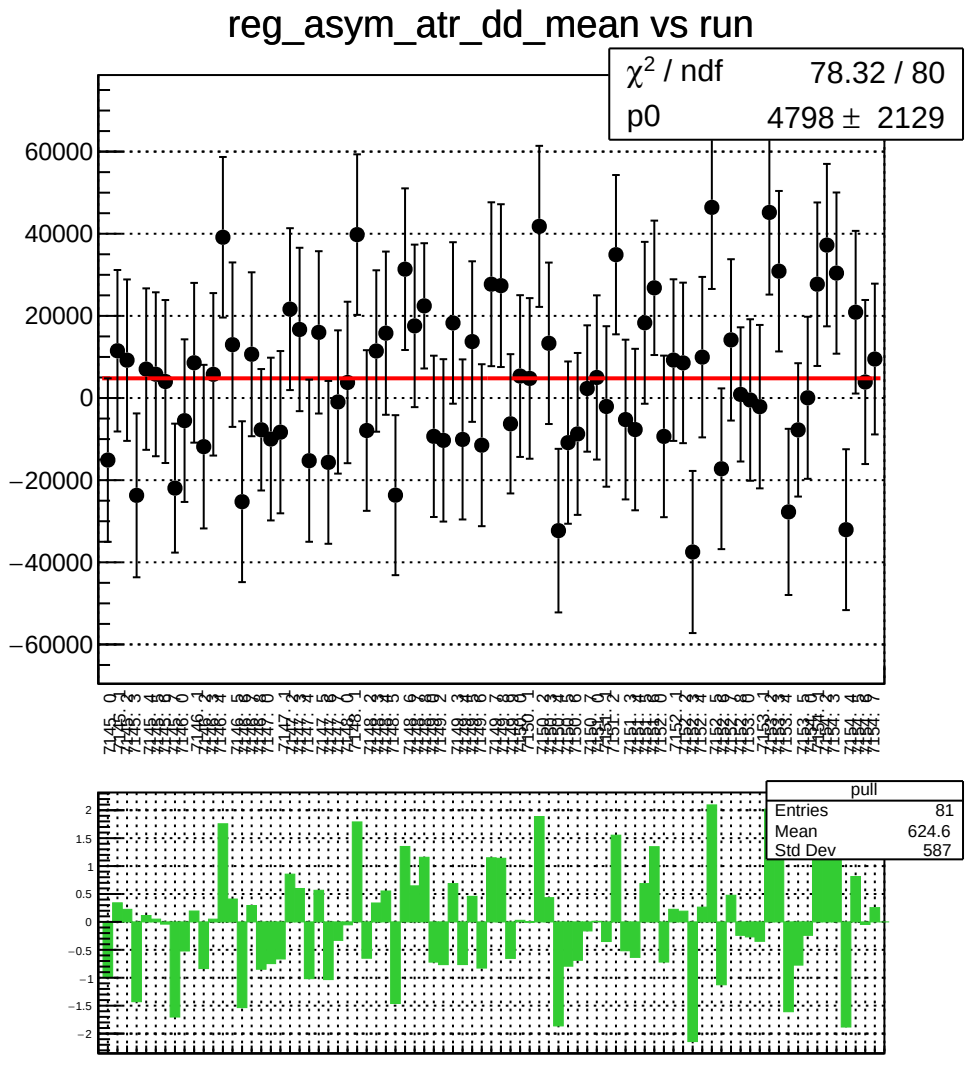

pull1D
Entries 81
Mean 0.01186
Std Dev 0.8651
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

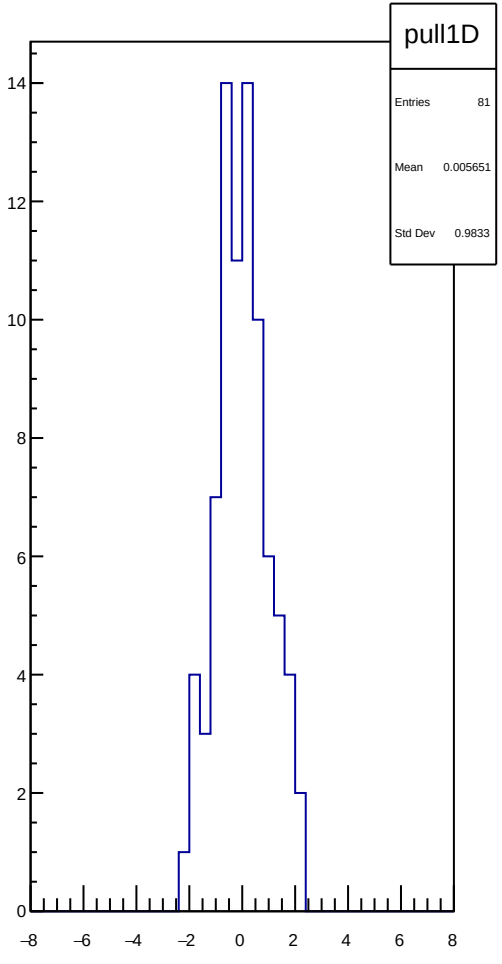

asym_atr_avg_correction_rms vs run
χ^2 / ndf 5.186e+04 / 80
p0 5258 ± 4.302
10000
9000
8000
7000
6000
5000
4000

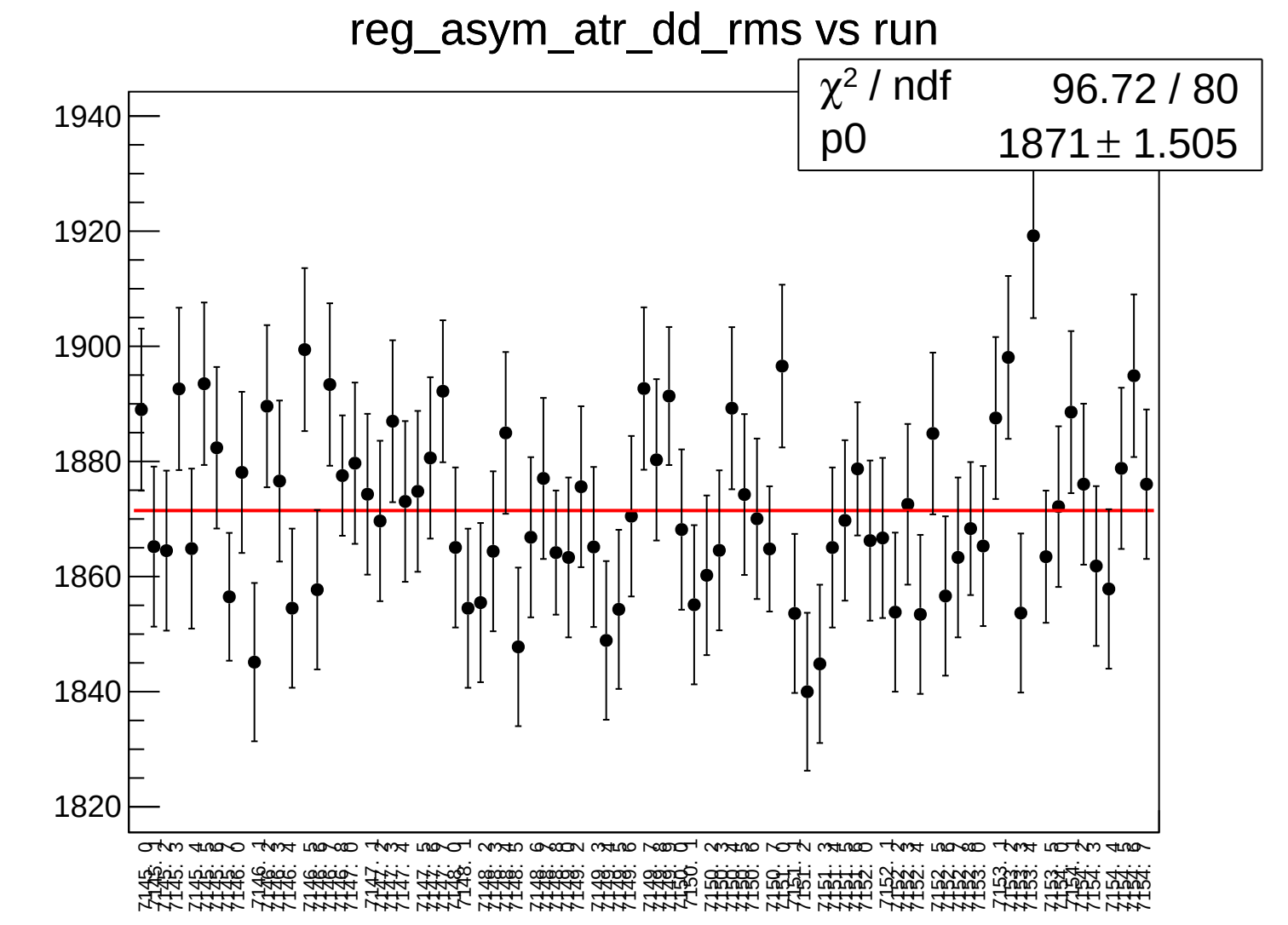

asym_atr_avg_mean vs run
×10^3
χ² / ndf 56.01 / 80
p0 89.47 ± 6490
200
100
0
−100
−200
pull
Entries 81
Mean 524.3
Std Dev 467.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

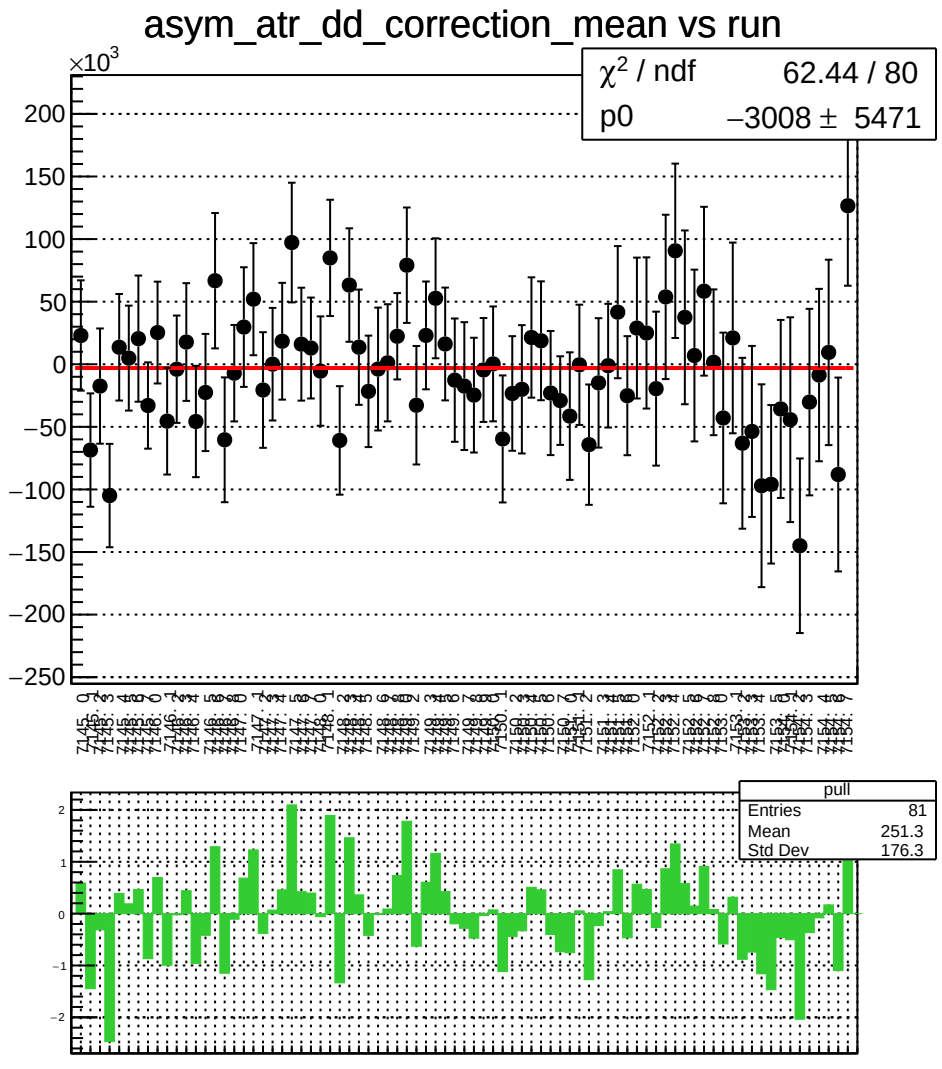

pull1D
Entries 81
Mean −0.003481
Std Dev 0.8315
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

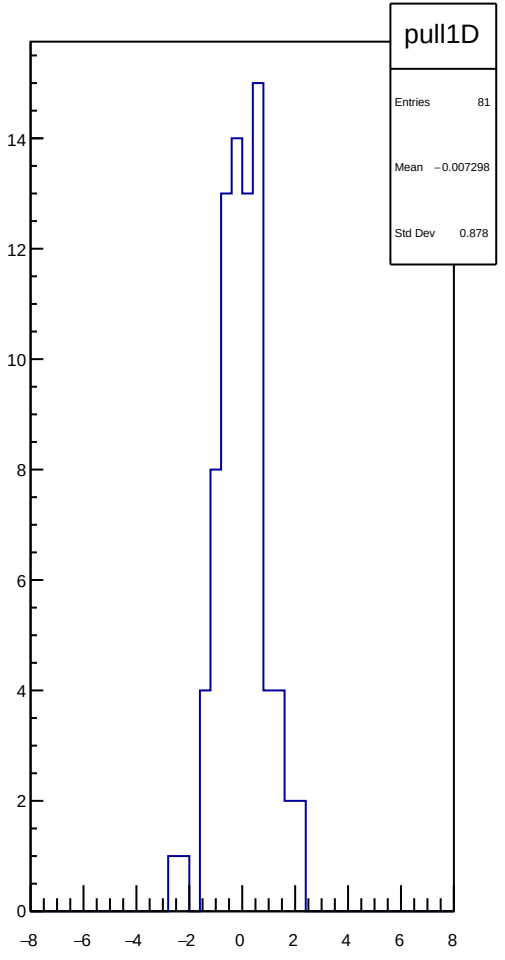

asym_atr_avg_rms vs run
χ^2 / ndf 4.363e+04 / 80
p0 5624 ± 4.589
10000
9000
8000
7000
6000
5000

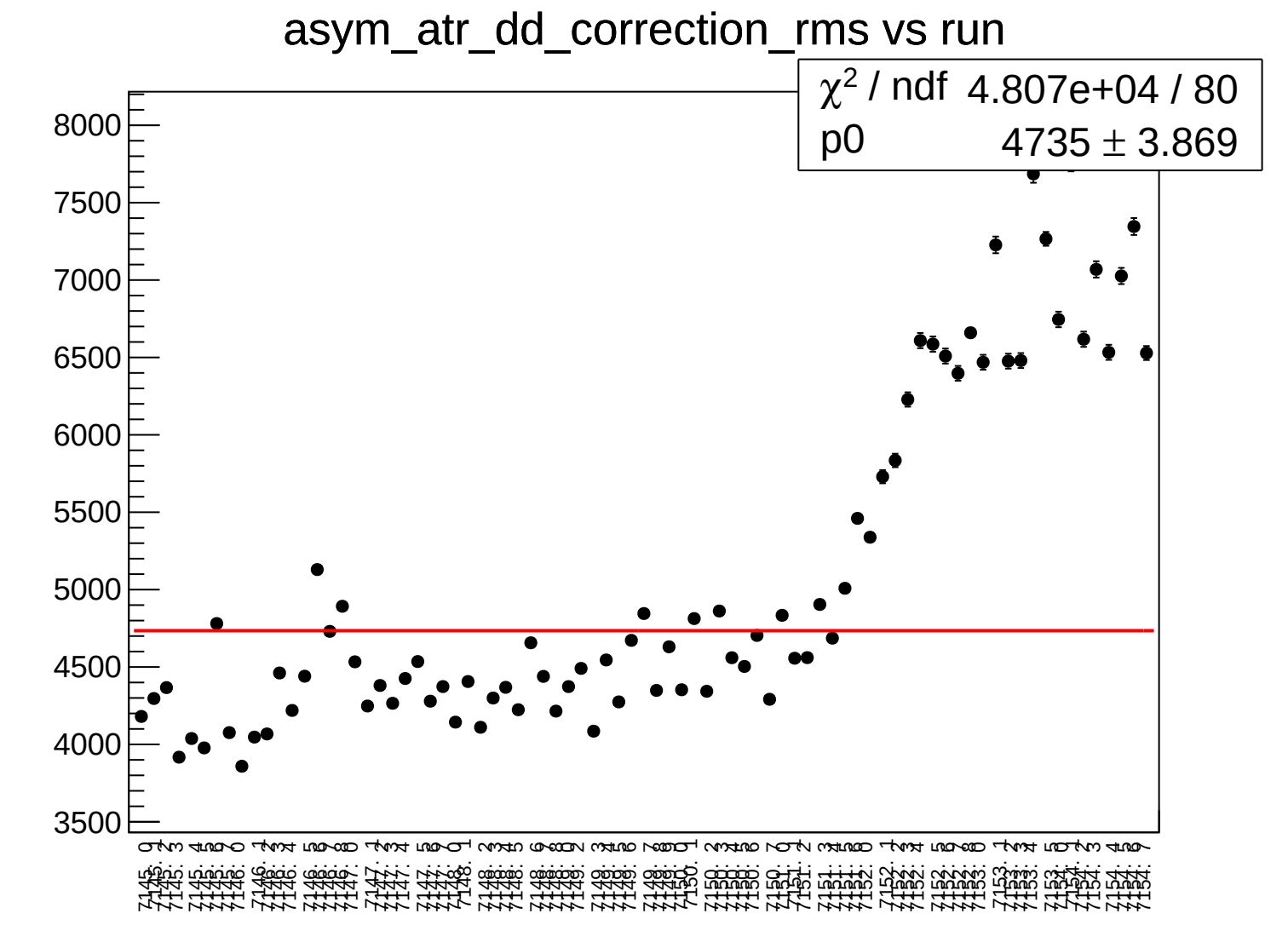

reg_asym_atr_dd_mean vs run
χ² / ndf 78.32 / 80
p0 4798 ± 2129
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 624.6
Std Dev 587
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

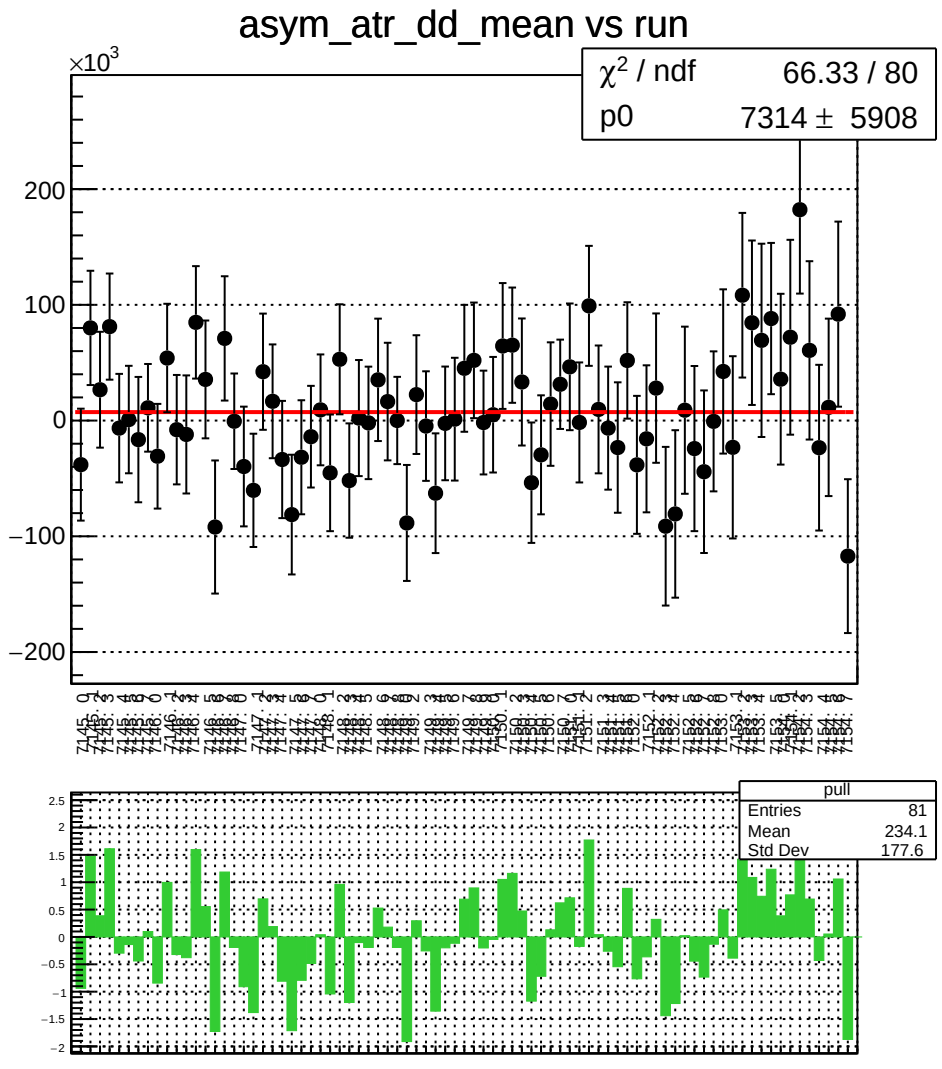

pull1D
Entries 81
Mean 0.005651
Std Dev 0.9833
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

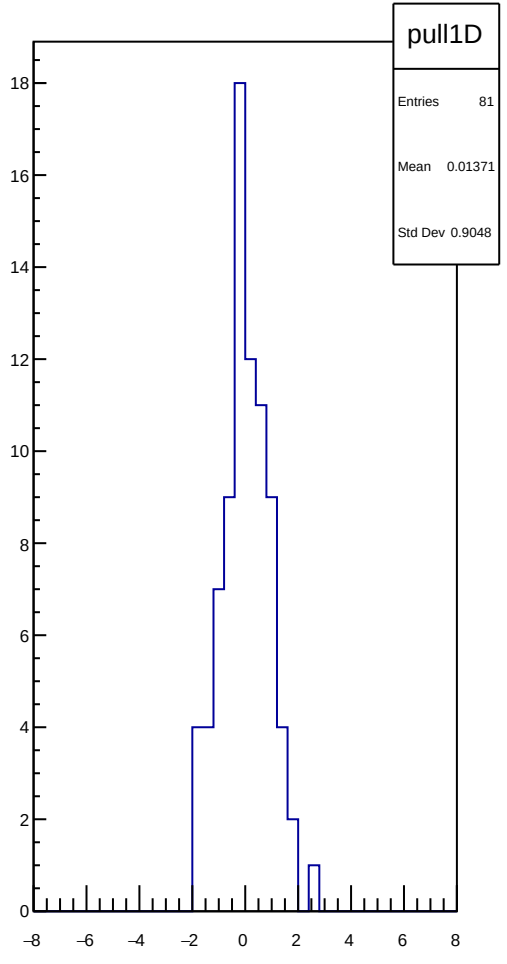

reg_asym_atr_dd_rms vs run
χ² / ndf 96.72 / 80
p0 1871 ± 1.505
1940
1920
1900
1880
1860
1840
1820

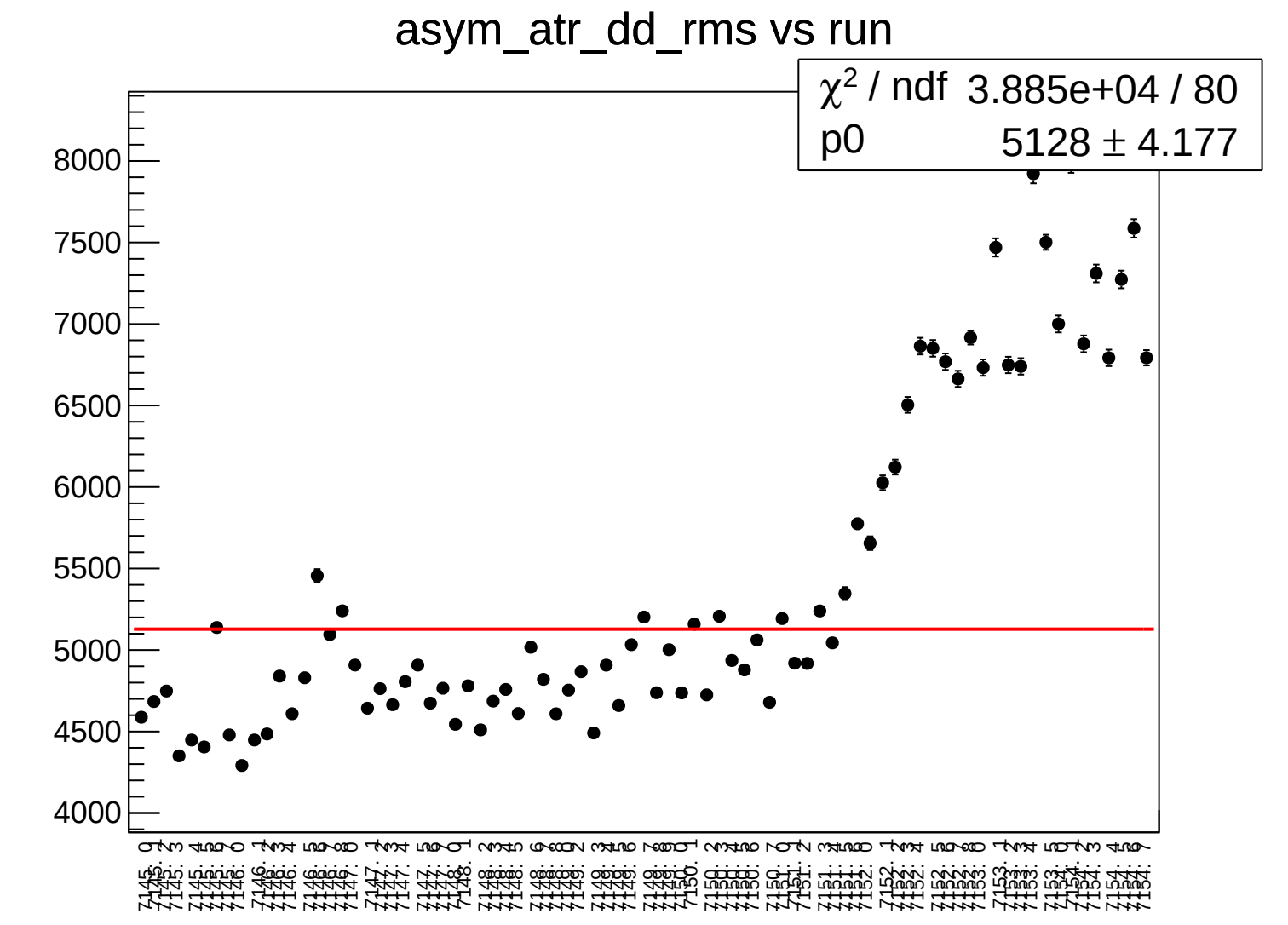

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 62.44 / 80
p0 −3008 ± 5471
pull
Entries 81
Mean 251.3
Std Dev 176.3

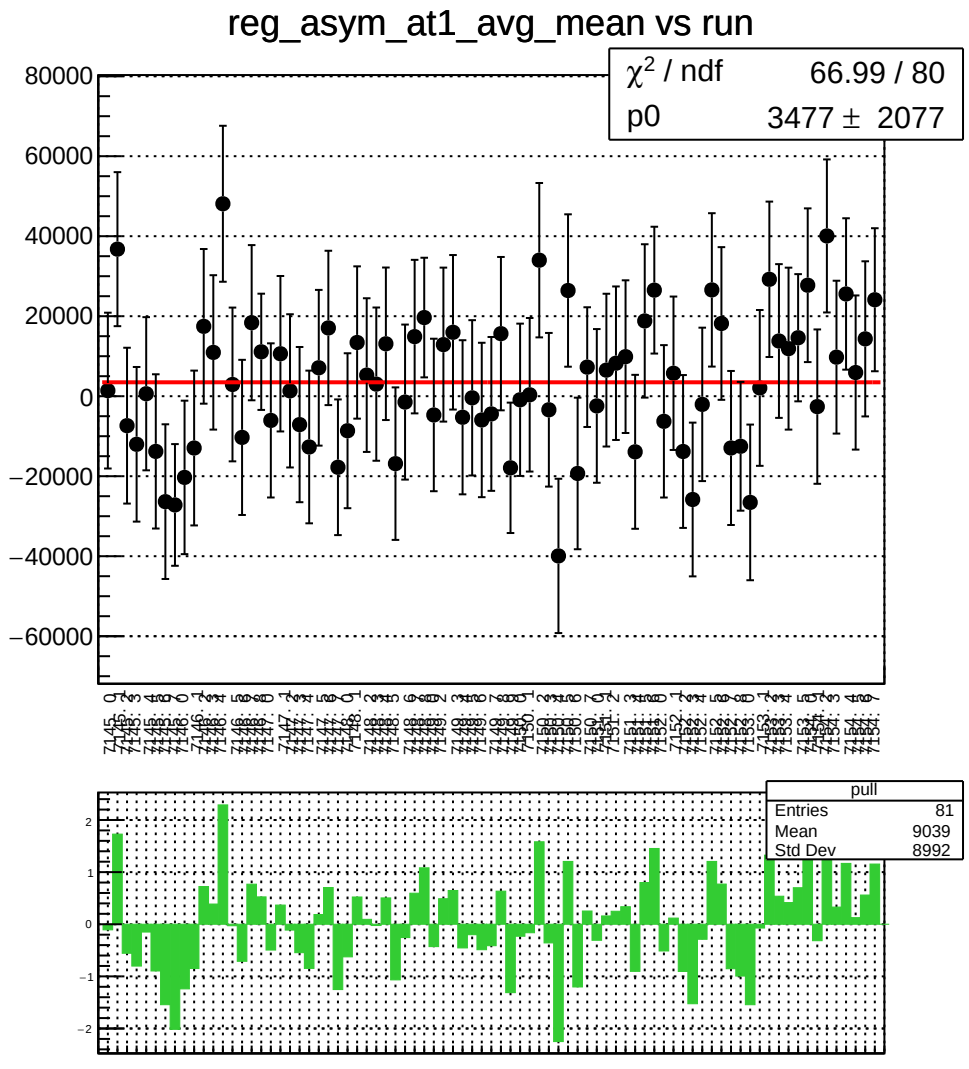

pull1D
Entries 81
Mean −0.007298
Std Dev 0.878

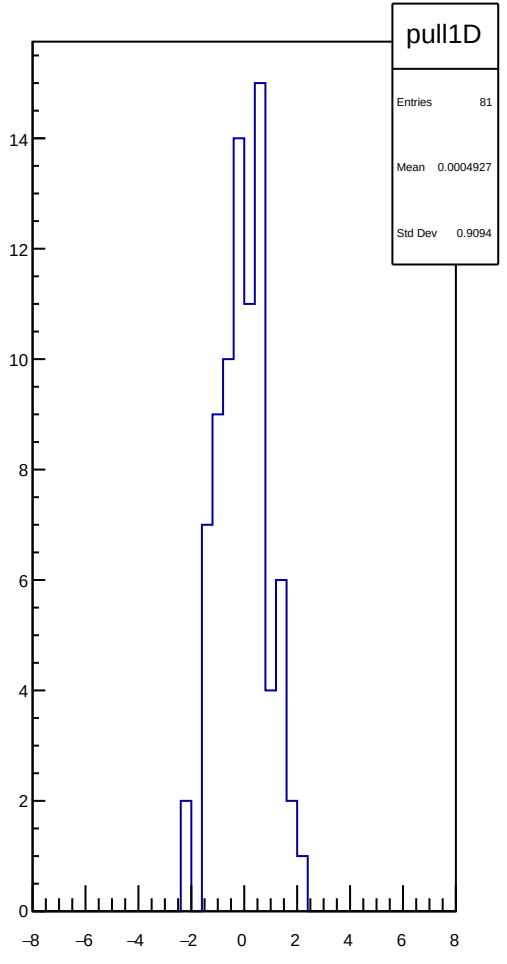

asym_atr_dd_correction_rms vs run
χ² / ndf 4.807e+04 / 80
p0 4735 ± 3.869
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500

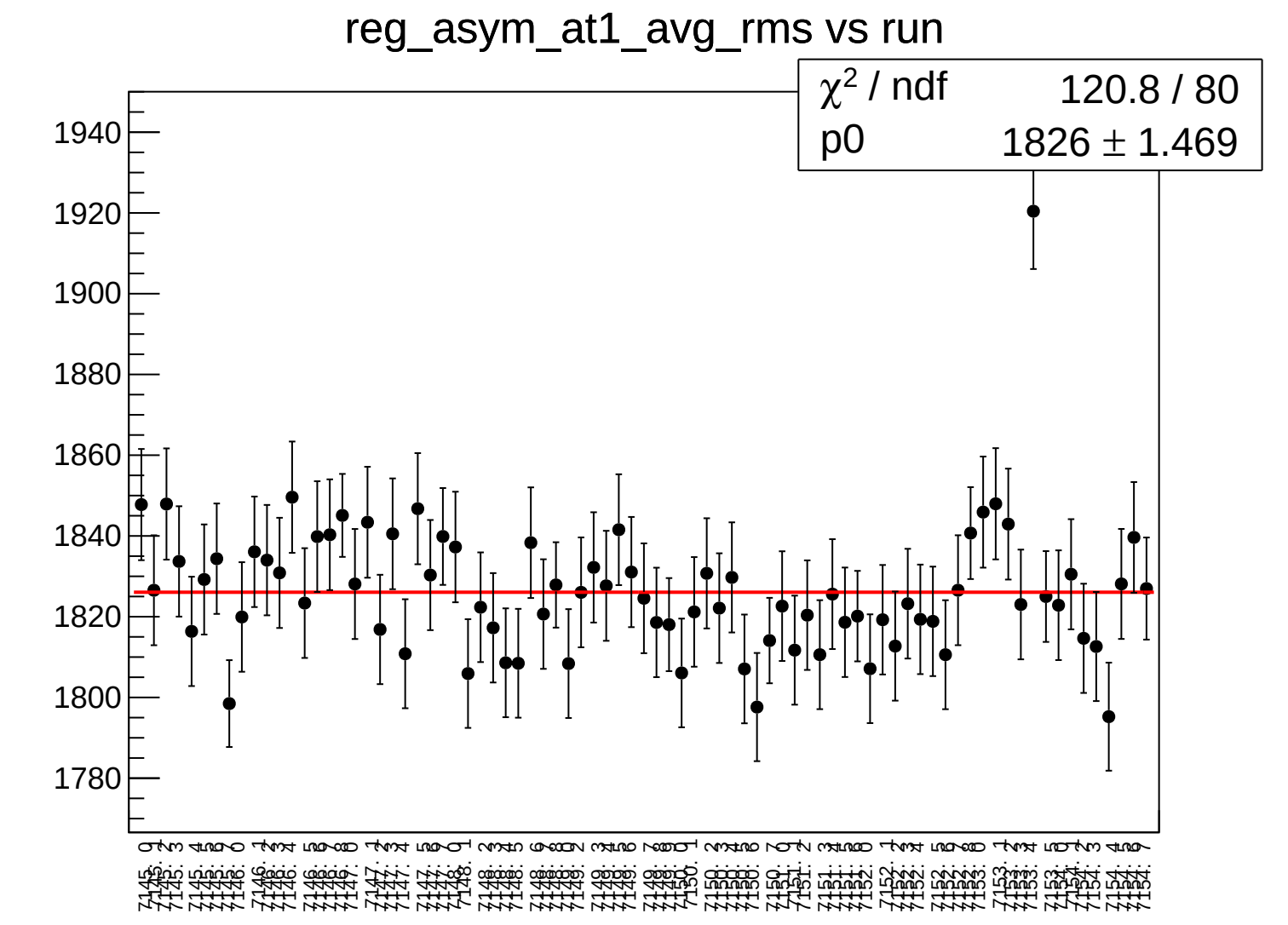

asym_atr_dd_mean vs run
χ^2 / ndf 66.33 / 80
p0 7314 ± 5908
×10^3
200
100
0
−100
−200
pull
Entries 81
Mean 234.1
Std Dev 177.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

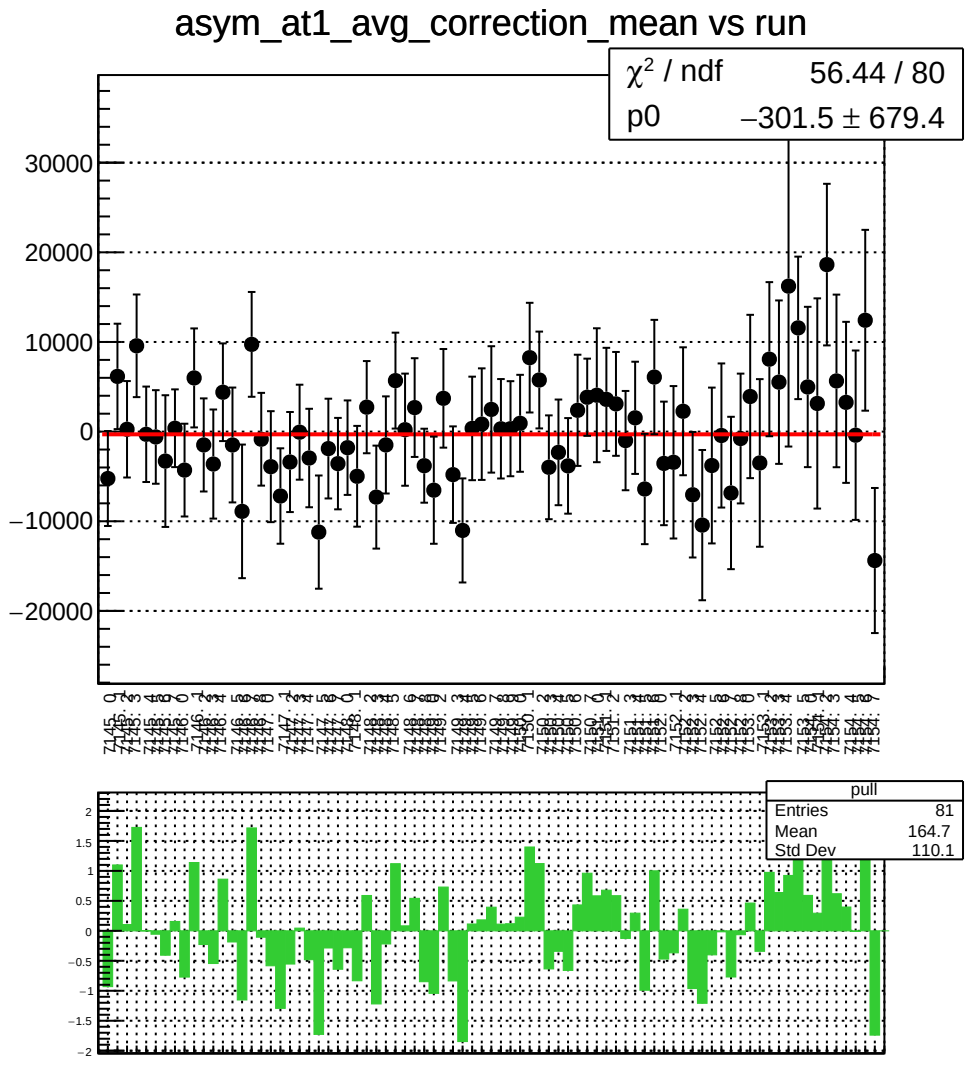

pull1D
Entries 81
Mean 0.01371
Std Dev 0.9048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

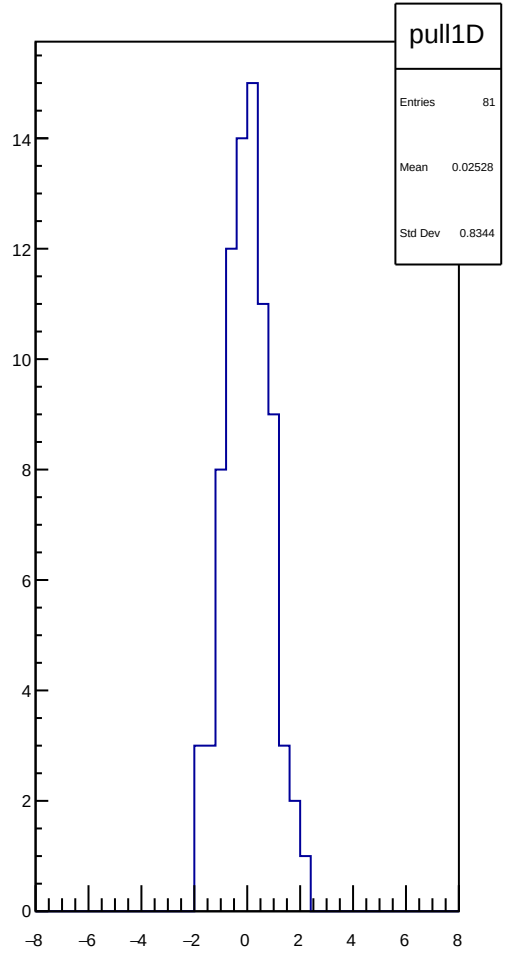

asym_atr_dd_rms vs run
χ² / ndf 3.885e+04 / 80
p0 5128 ± 4.177
8000
7500
7000
6500
6000
5500
5000
4500
4000

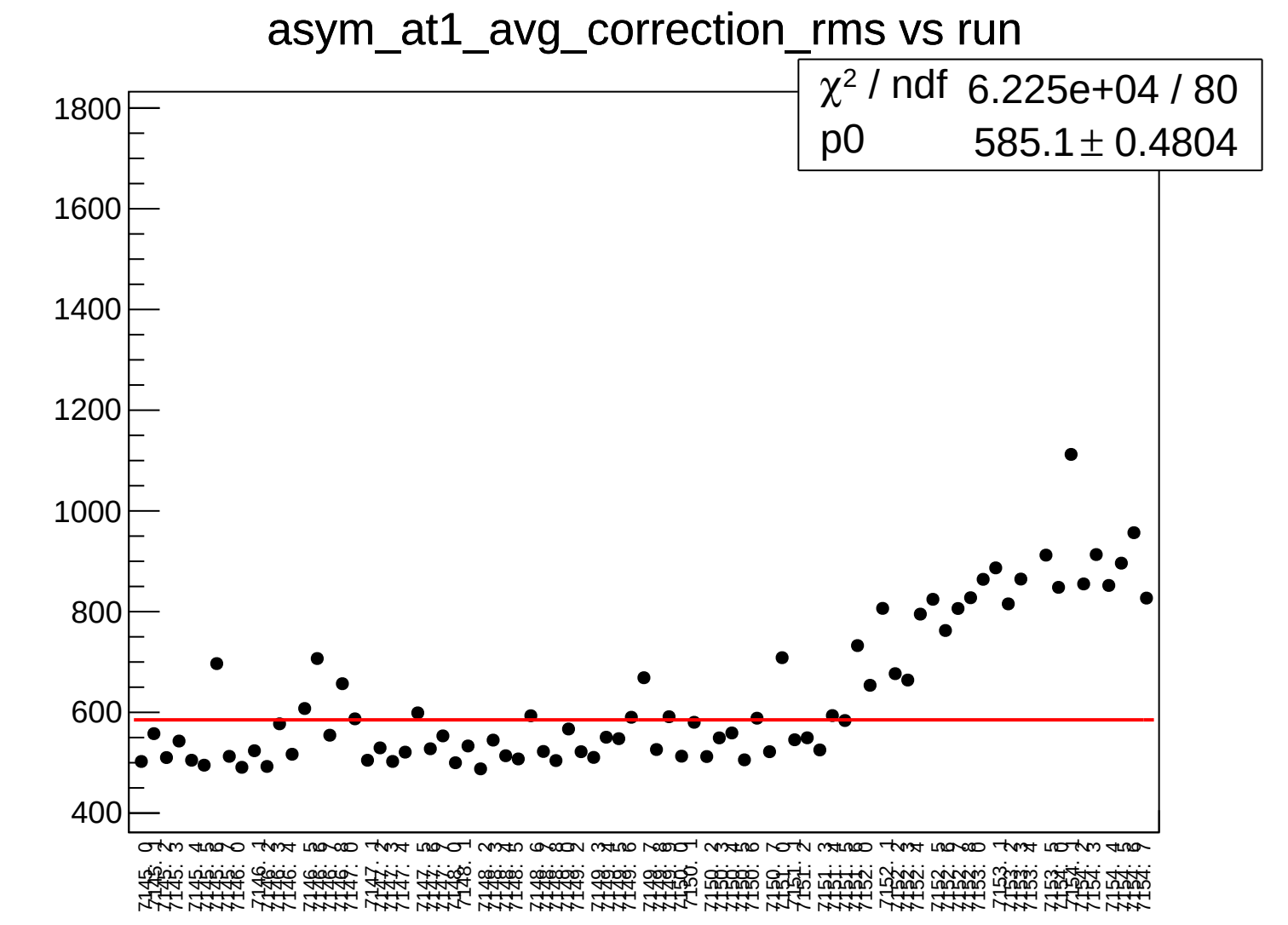

reg_asym_at1_avg_mean vs run
χ² / ndf 66.99 / 80
p0 3477 ± 2077
pull
Entries 81
Mean 9039
Std Dev 8992

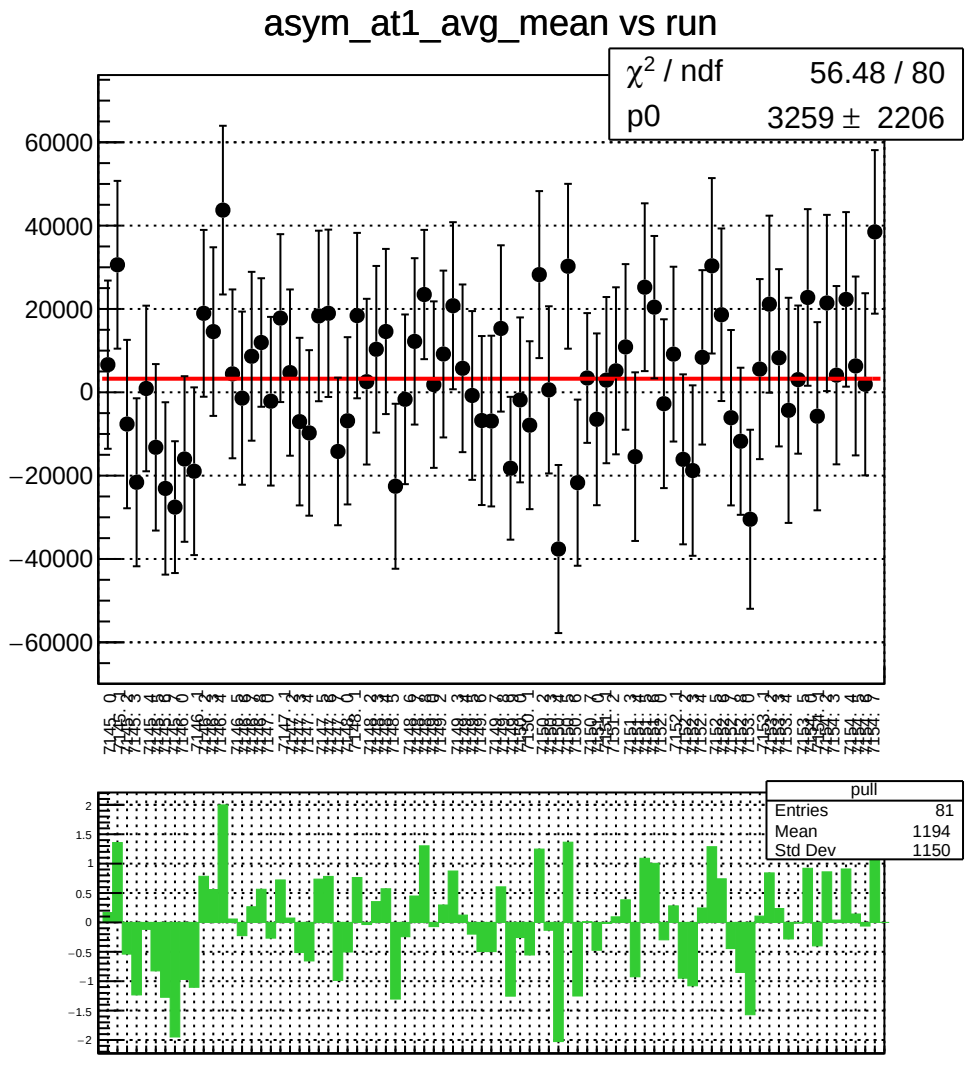

pull1D
Entries 81
Mean 0.0004927
Std Dev 0.9094

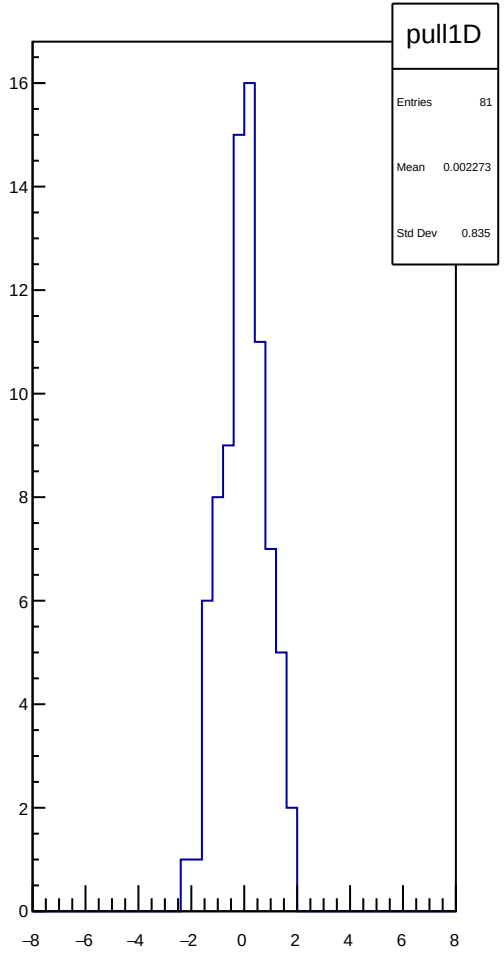

reg_asym_at1_avg_rms vs run
χ² / ndf 120.8 / 80
p0 1826 ± 1.469
1940
1920
1900
1880
1860
1840
1820
1800
1780

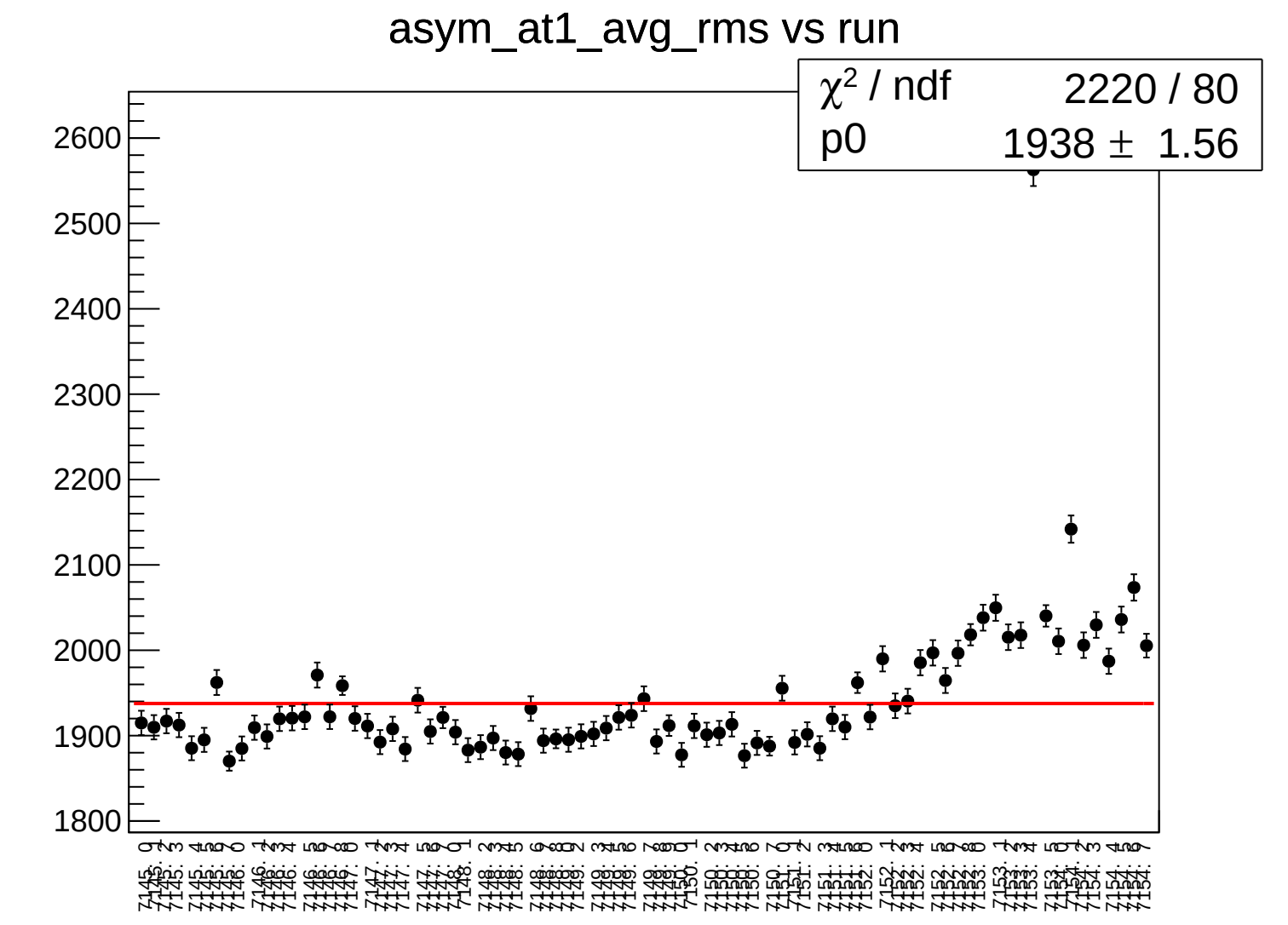

asym_at1_avg_correction_mean vs run
χ² / ndf 56.44 / 80
p0 −301.5 ± 679.4
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 164.7
Std Dev 110.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

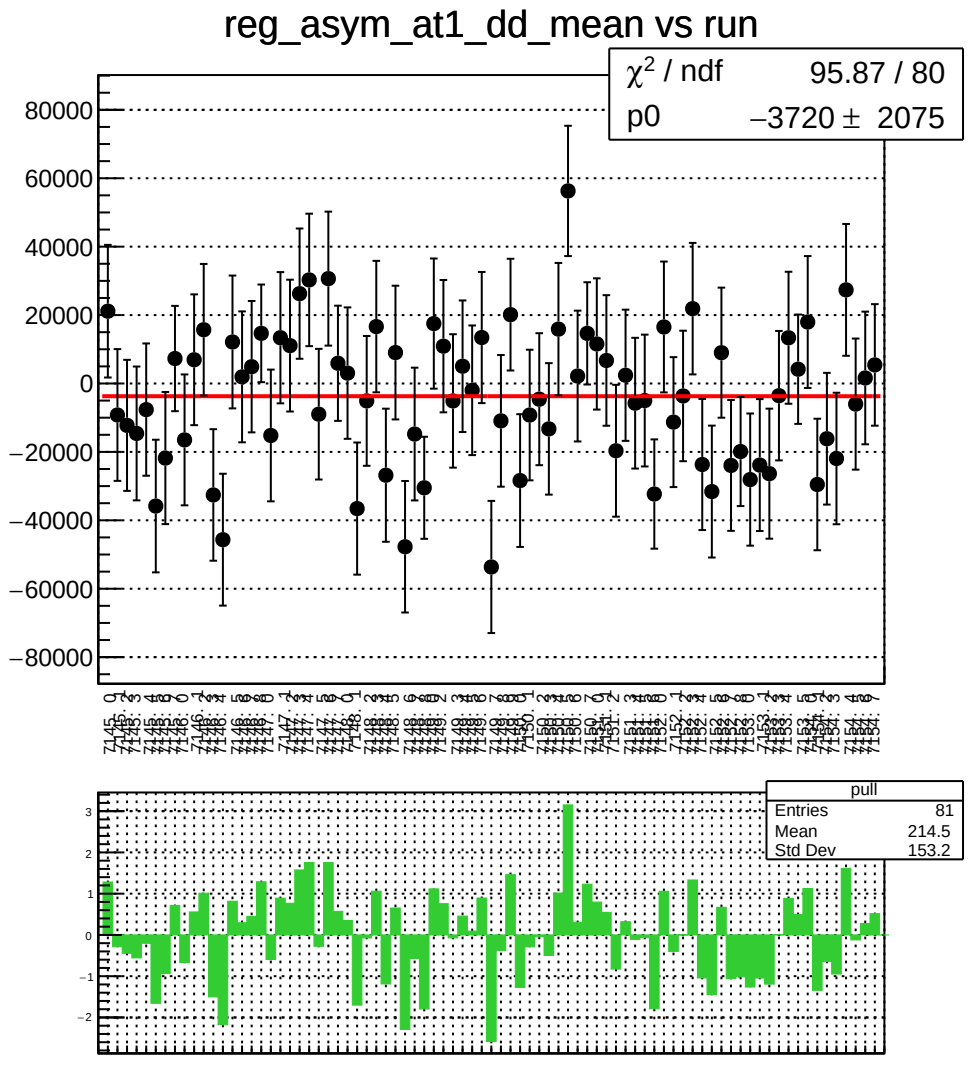

pull1D
Entries 81
Mean 0.02528
Std Dev 0.8344
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

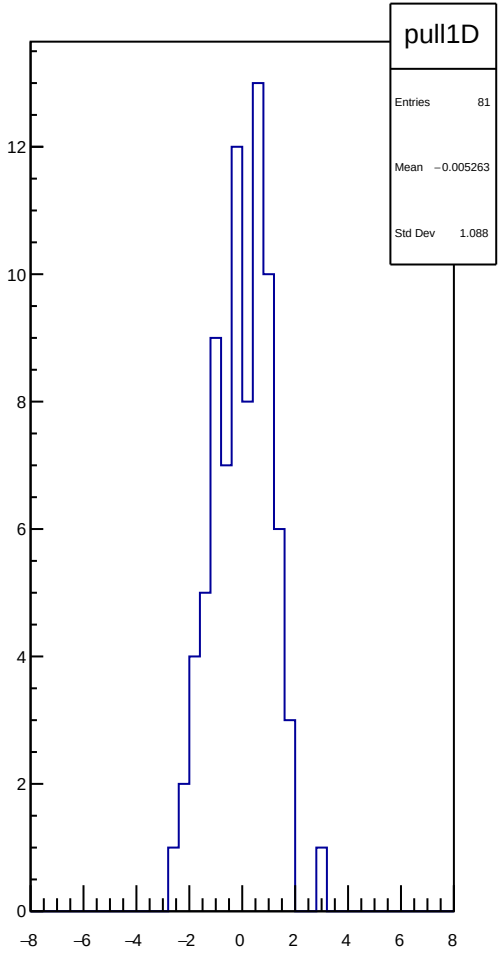

asym_at1_avg_correction_rms vs run
χ² / ndf 6.225e+04 / 80
p0 585.1 ± 0.4804
1800
1600
1400
1200
1000
800
600
400

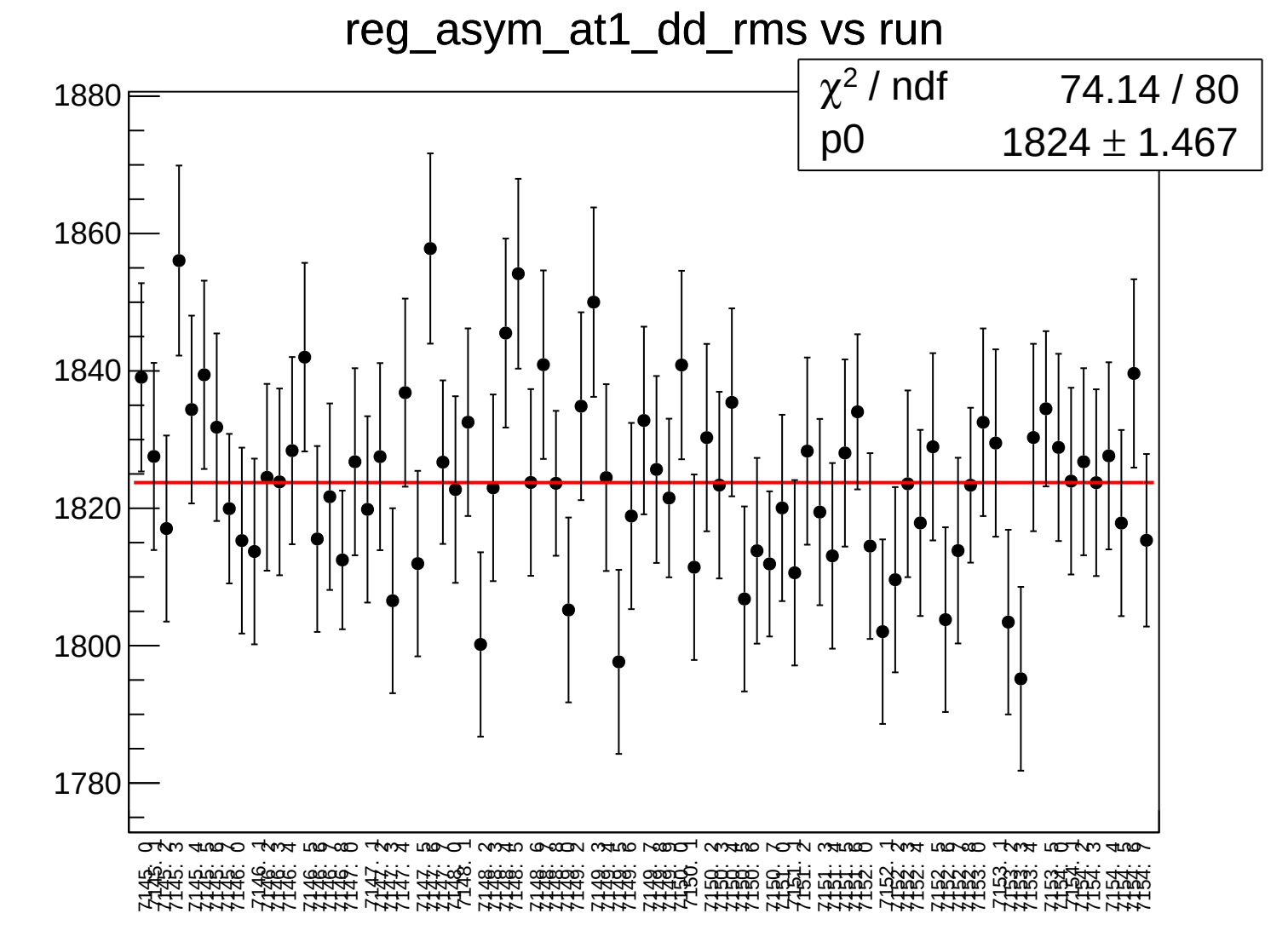

asym_at1_avg_mean vs run
χ² / ndf 56.48 / 80
p0 3259 ± 2206
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 1194
Std Dev 1150
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

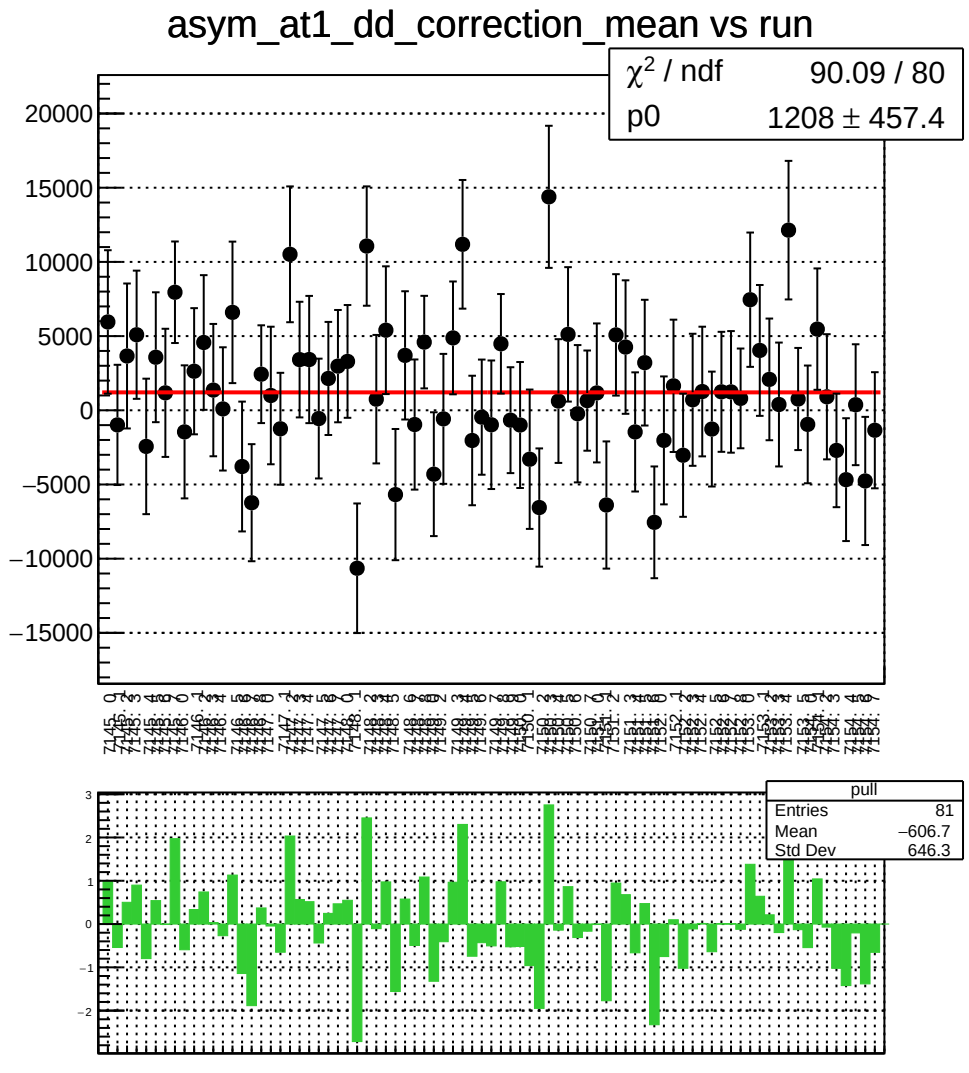

pull1D
Entries 81
Mean 0.002273
Std Dev 0.835
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

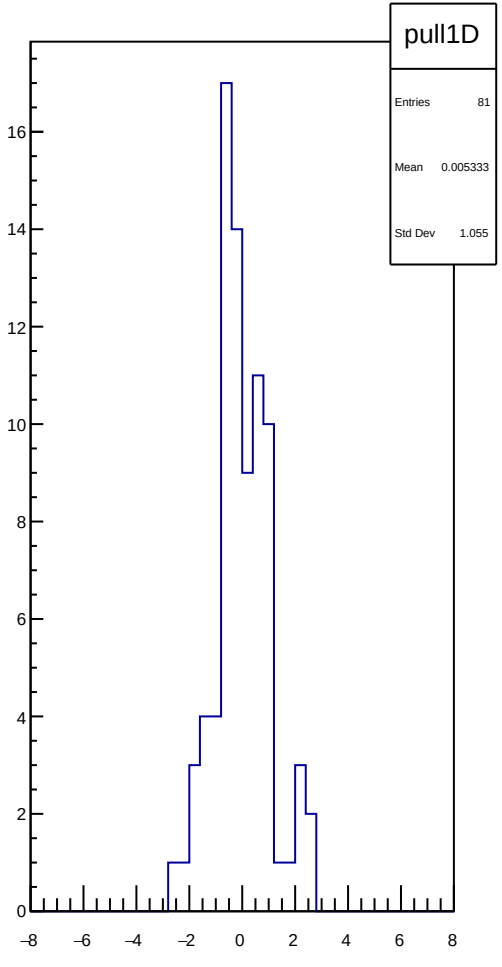

asym_at1_avg_rms vs run
χ² / ndf 2220 / 80
p0 1938 ± 1.56
2600
2500
2400
2300
2200
2100
2000
1900
1800

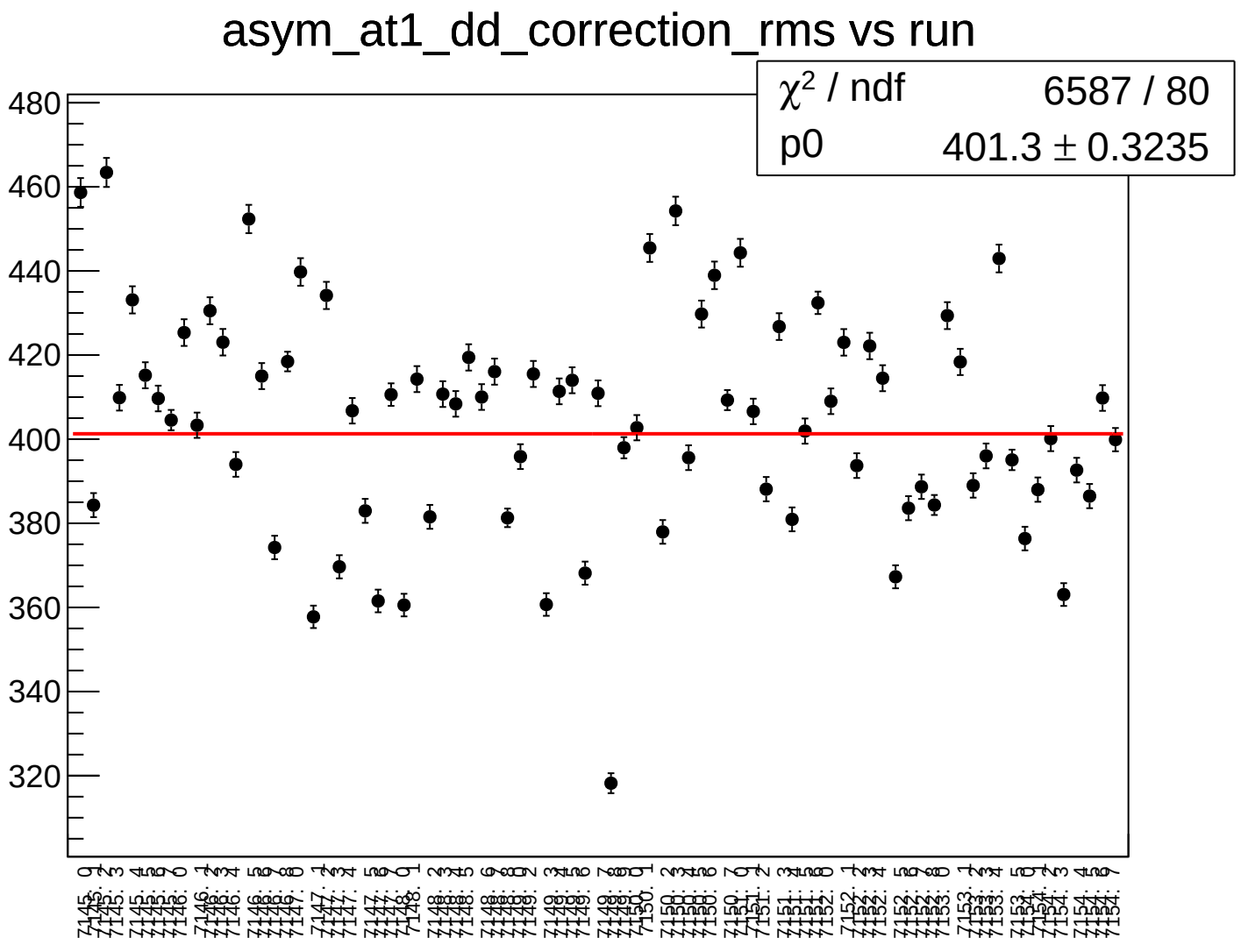

reg_asym_at1_dd_mean vs run
χ² / ndf 95.87 / 80
p0 −3720 ± 2075
pull
Entries 81
Mean 214.5
Std Dev 153.2

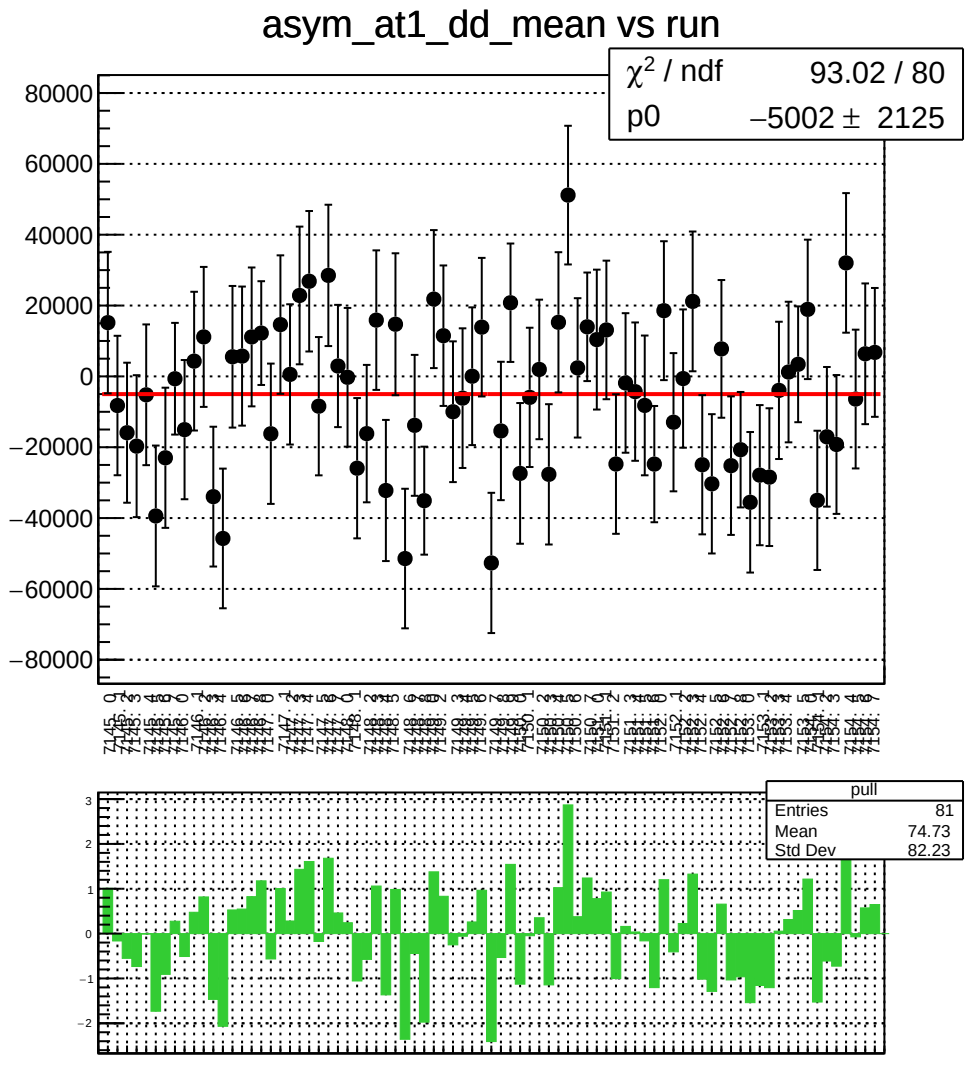

pull1D
Entries 81
Mean −0.005263
Std Dev 1.088

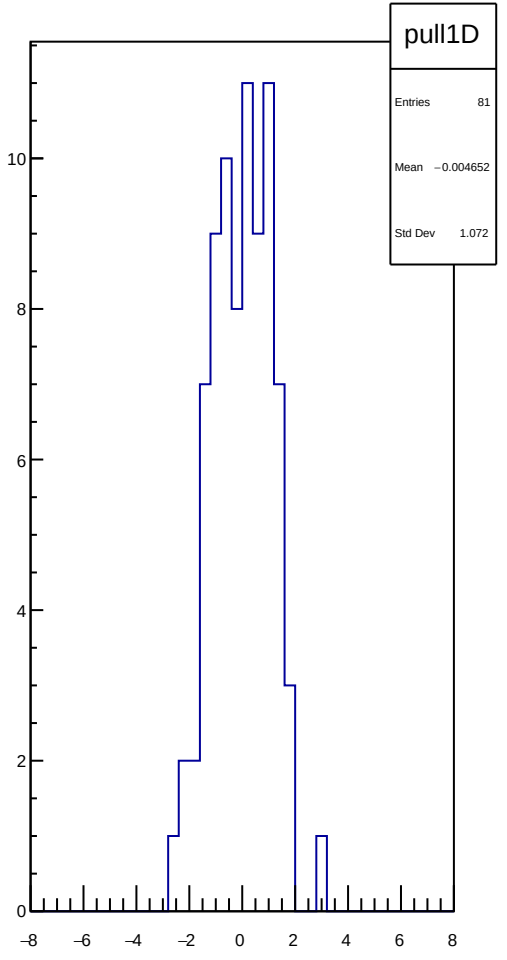

reg_asym_at1_dd_rms vs run
χ² / ndf 74.14 / 80
p0 1824 ± 1.467
1880
1860
1840
1820
1800
1780

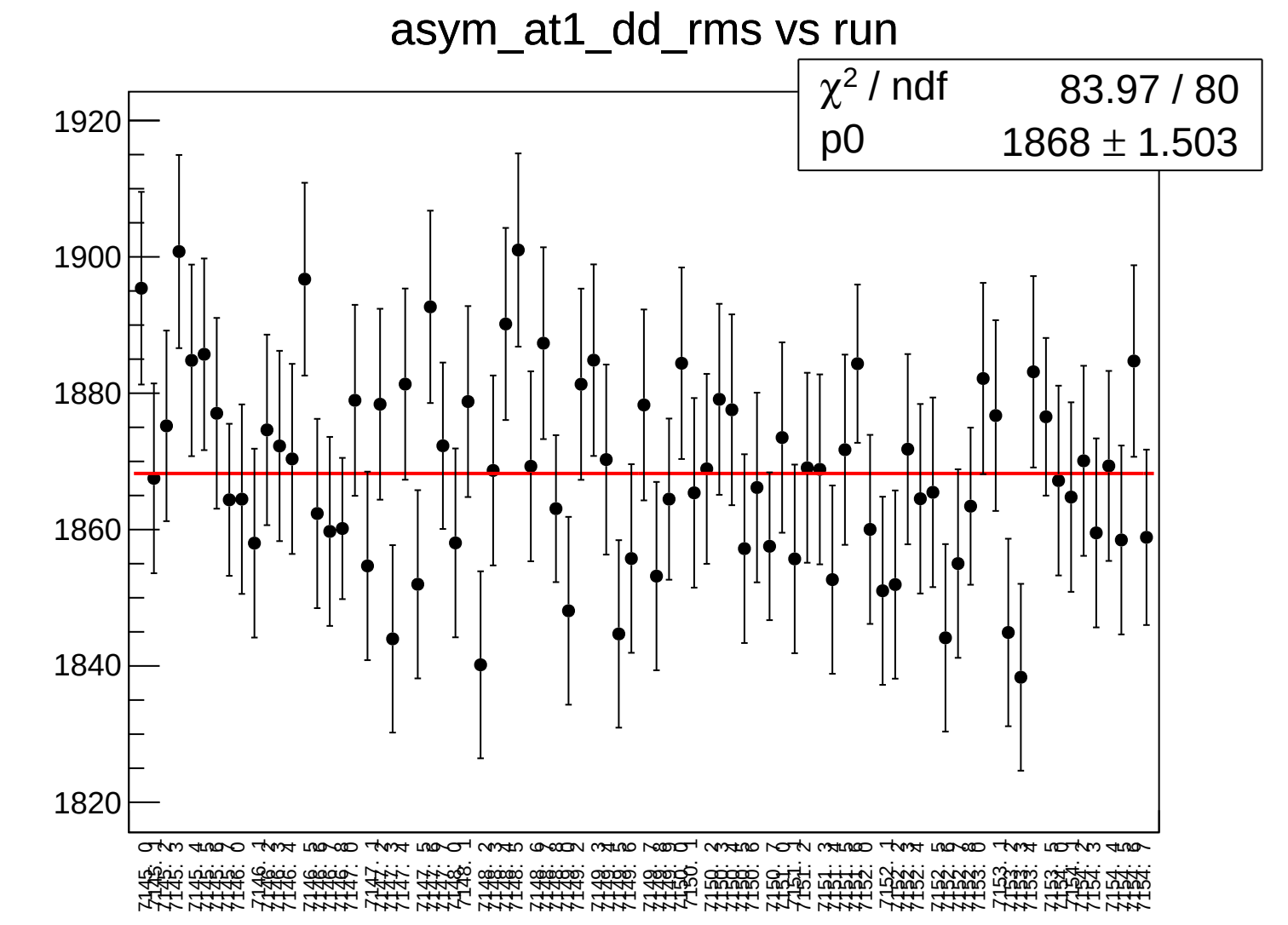

asym_at1_dd_correction_mean vs run
χ² / ndf 90.09 / 80
p0 1208 ± 457.4
pull
Entries 81
Mean −606.7
Std Dev 646.3

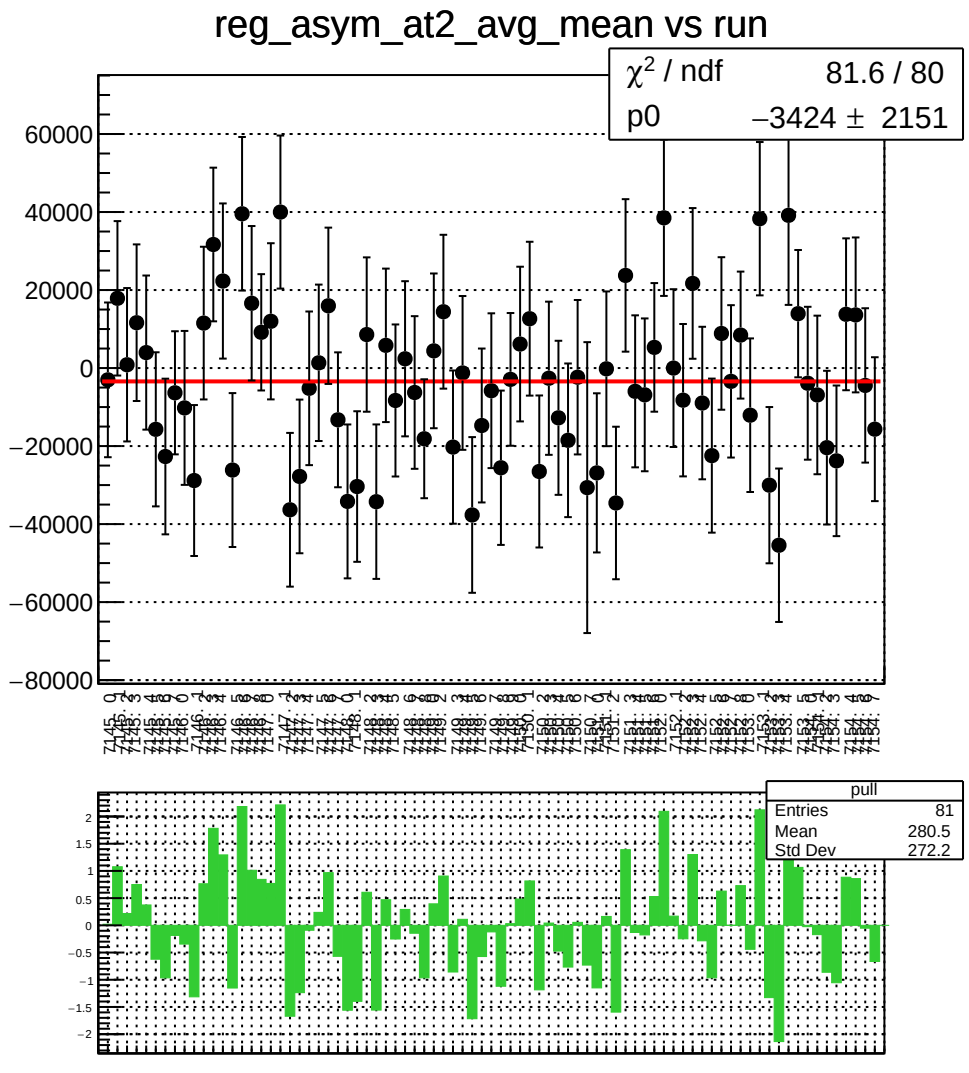

pull1D
Entries 81
Mean 0.005333
Std Dev 1.055

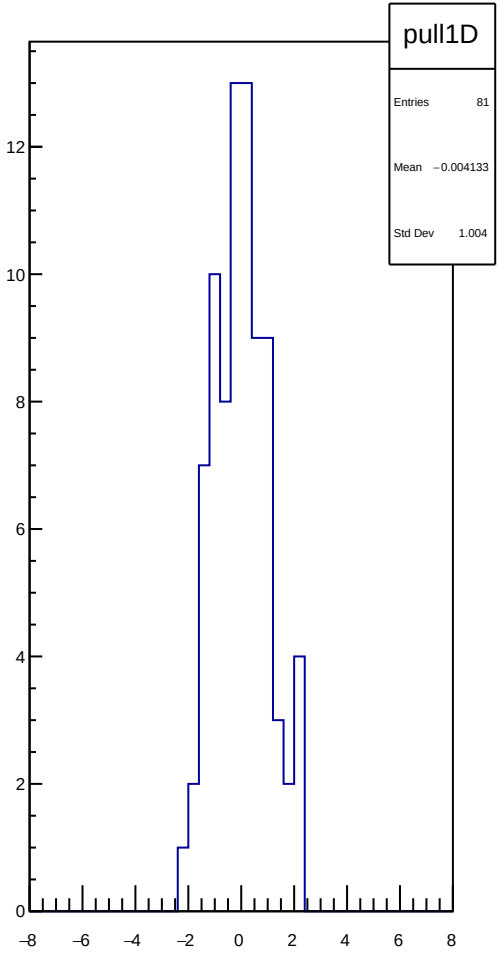

asym_at1_dd_correction_rms vs run
χ² / ndf 6587 / 80
p0 401.3 ± 0.3235
480
460
440
420
400
380
360
340
320

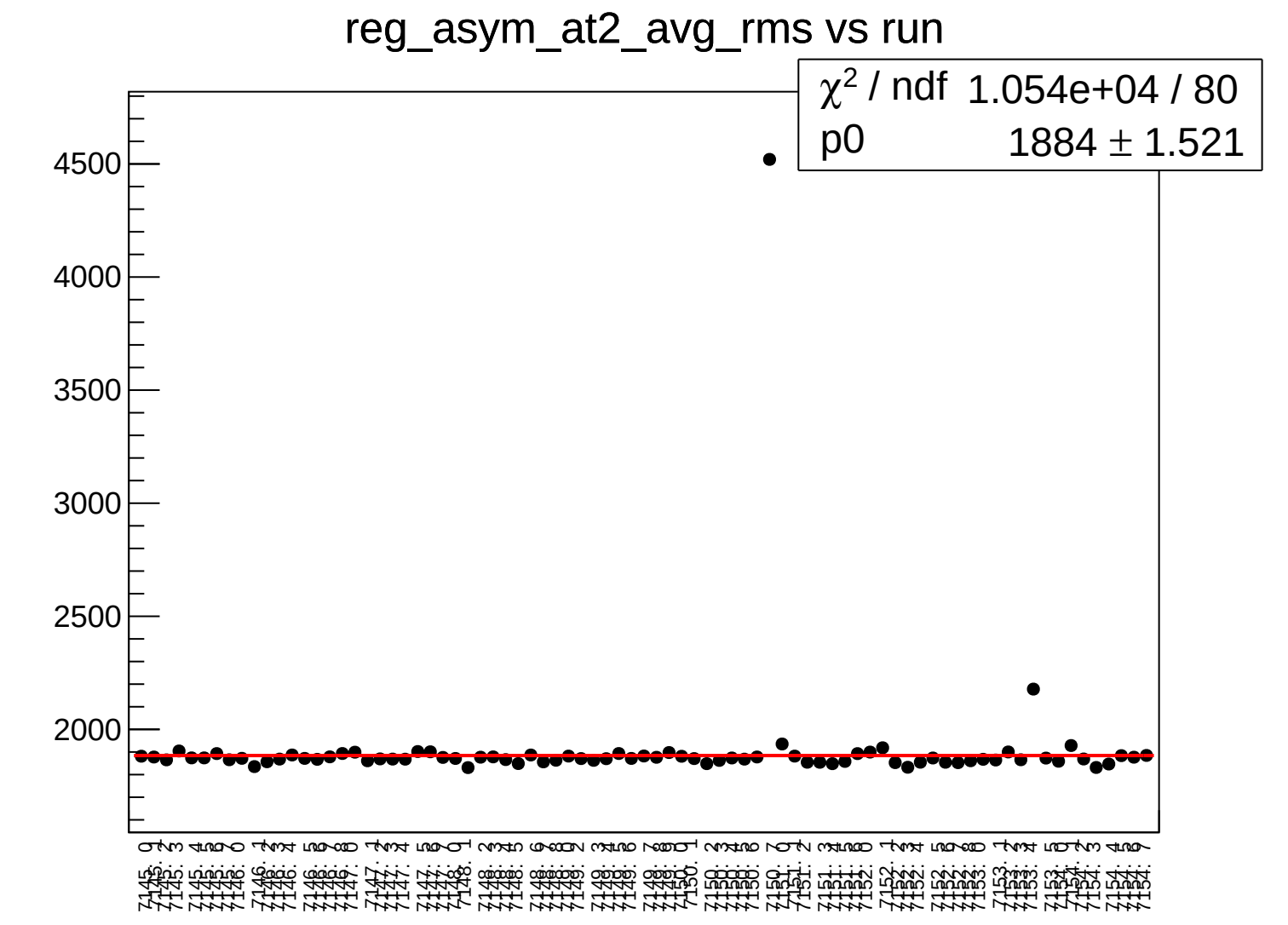

asym_at1_dd_mean vs run
χ² / ndf 93.02 / 80
p0 −5002 ± 2125
pull
Entries 81
Mean 74.73
Std Dev 82.23

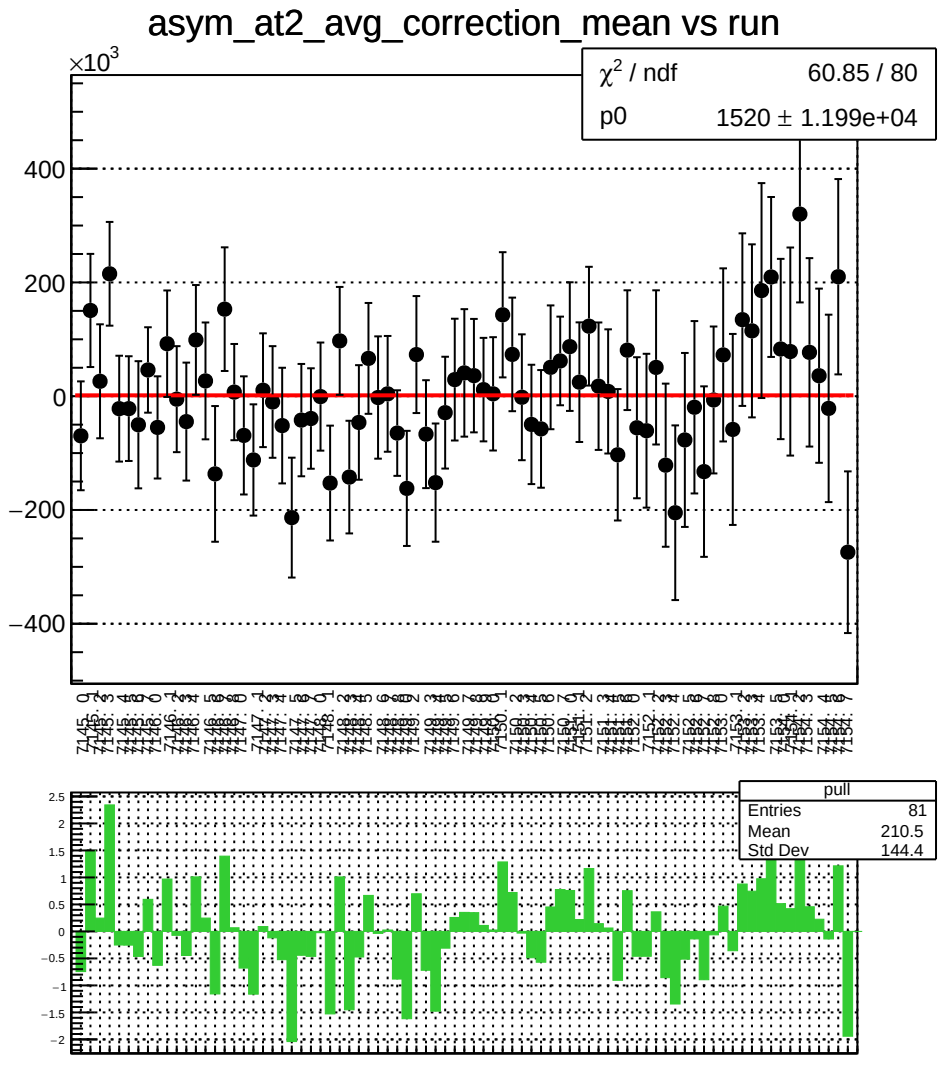

pull1D
Entries 81
Mean −0.004652
Std Dev 1.072

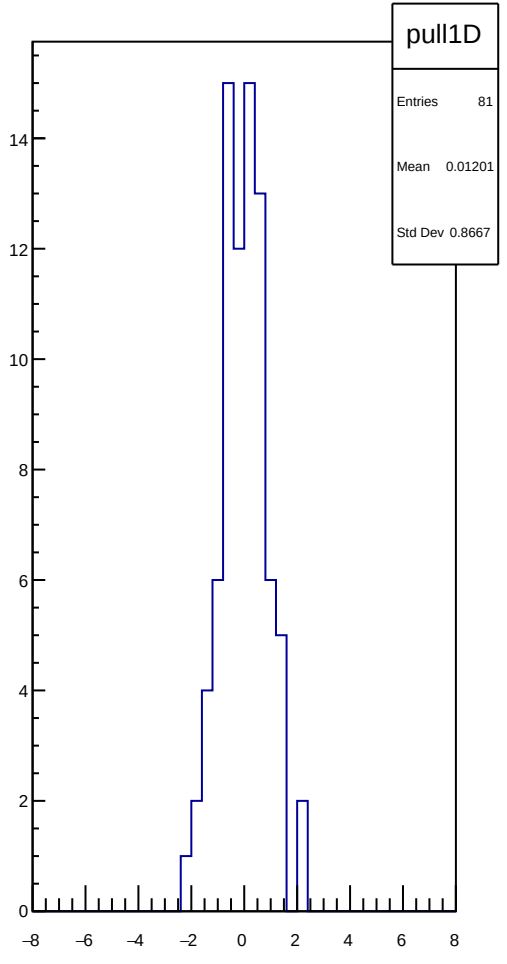

asym_at1_dd_rms vs run
χ² / ndf 83.97 / 80
p0 1868 ± 1.503
1920
1900
1880
1860
1840
1820

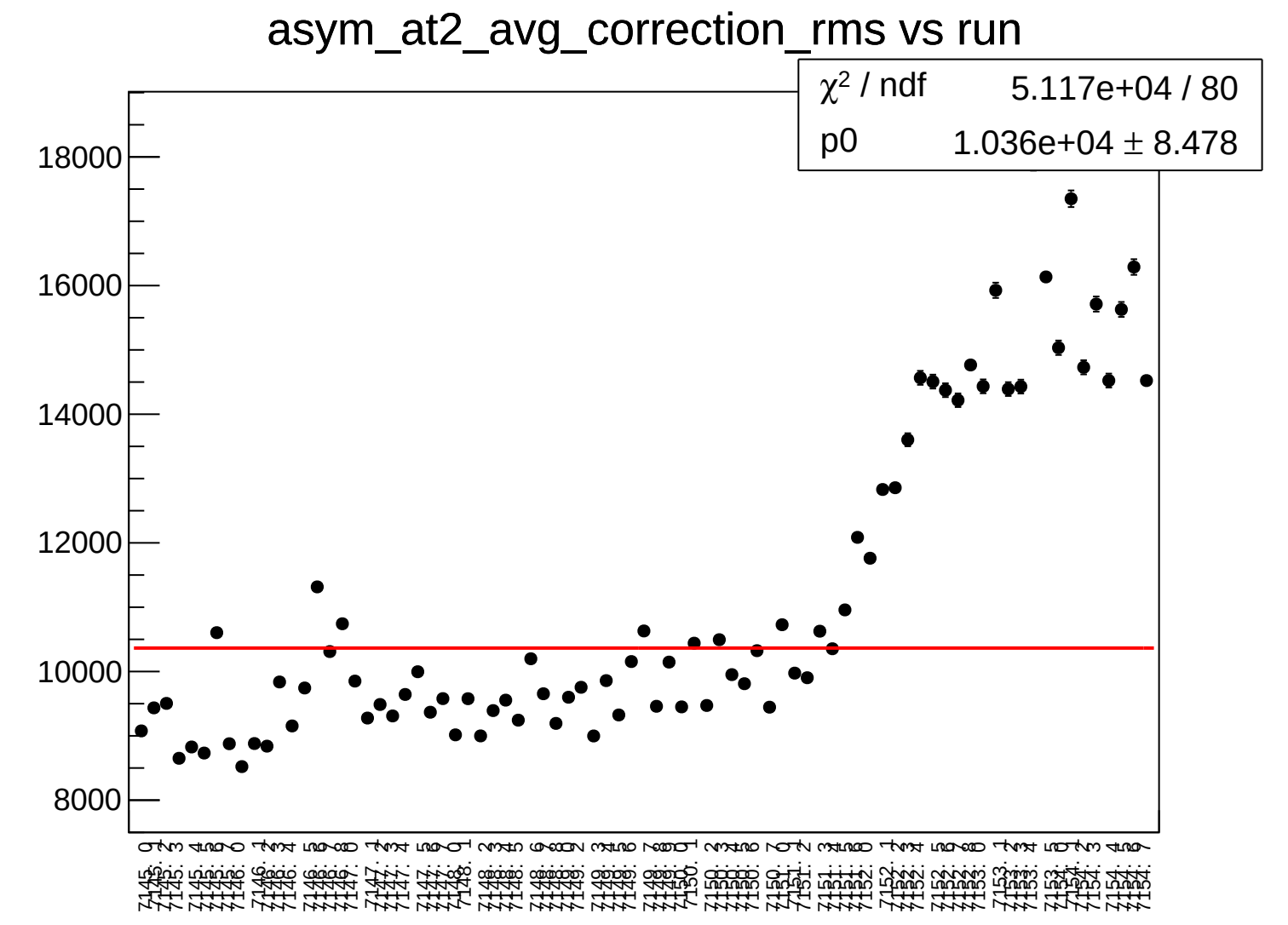

reg_asym_at2_avg_mean vs run
χ² / ndf 81.6 / 80
p0 −3424 ± 2151
pull
Entries 81
Mean 280.5
Std Dev 272.2

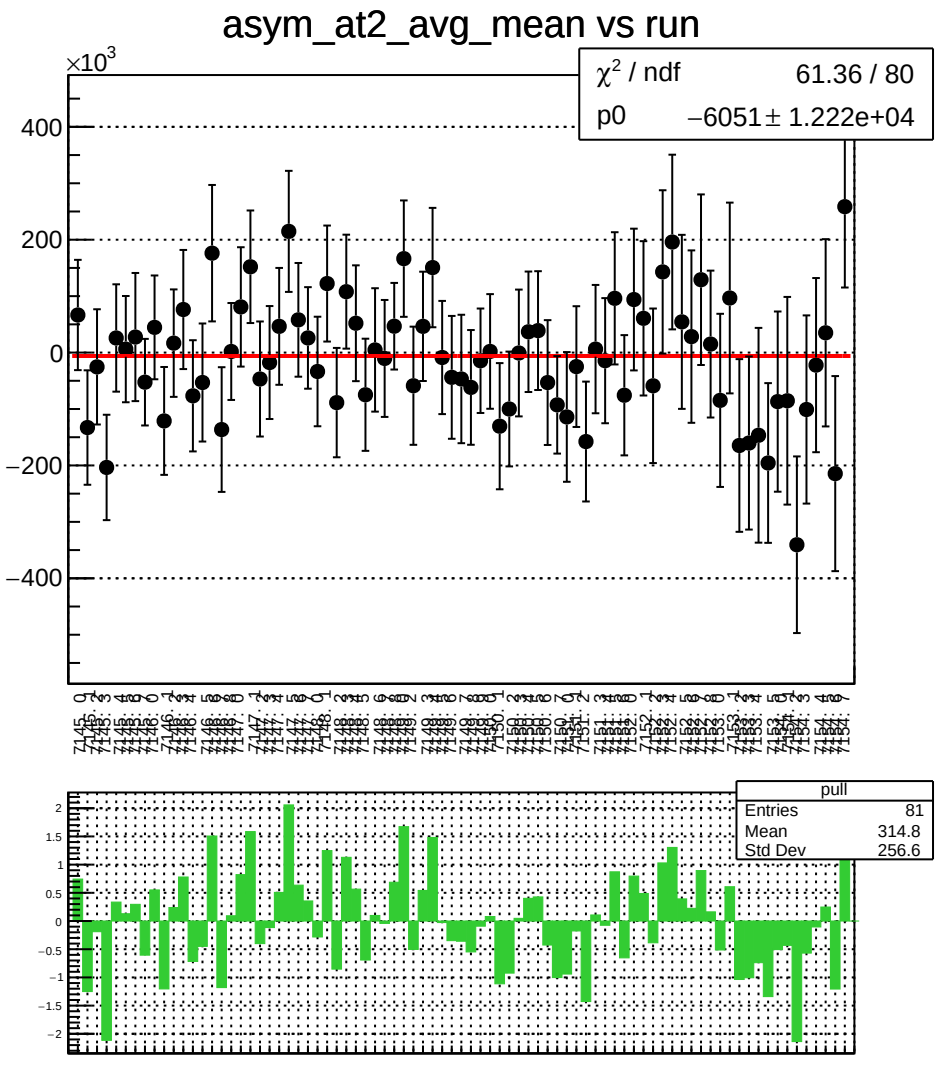

pull1D
Entries 81
Mean −0.004133
Std Dev 1.004

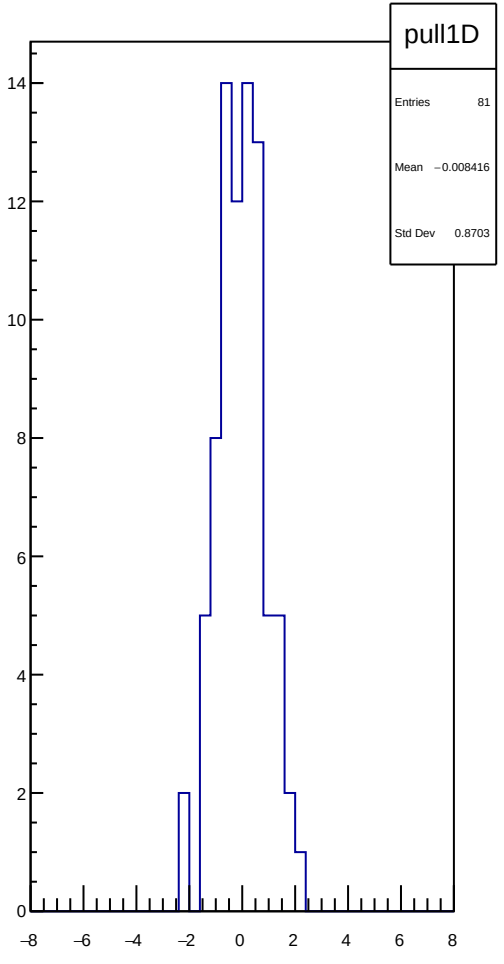

reg_asym_at2_avg_rms vs run
χ² / ndf 1.054e+04 / 80
p0 1884 ± 1.521
4500
4000
3500
3000
2500
2000

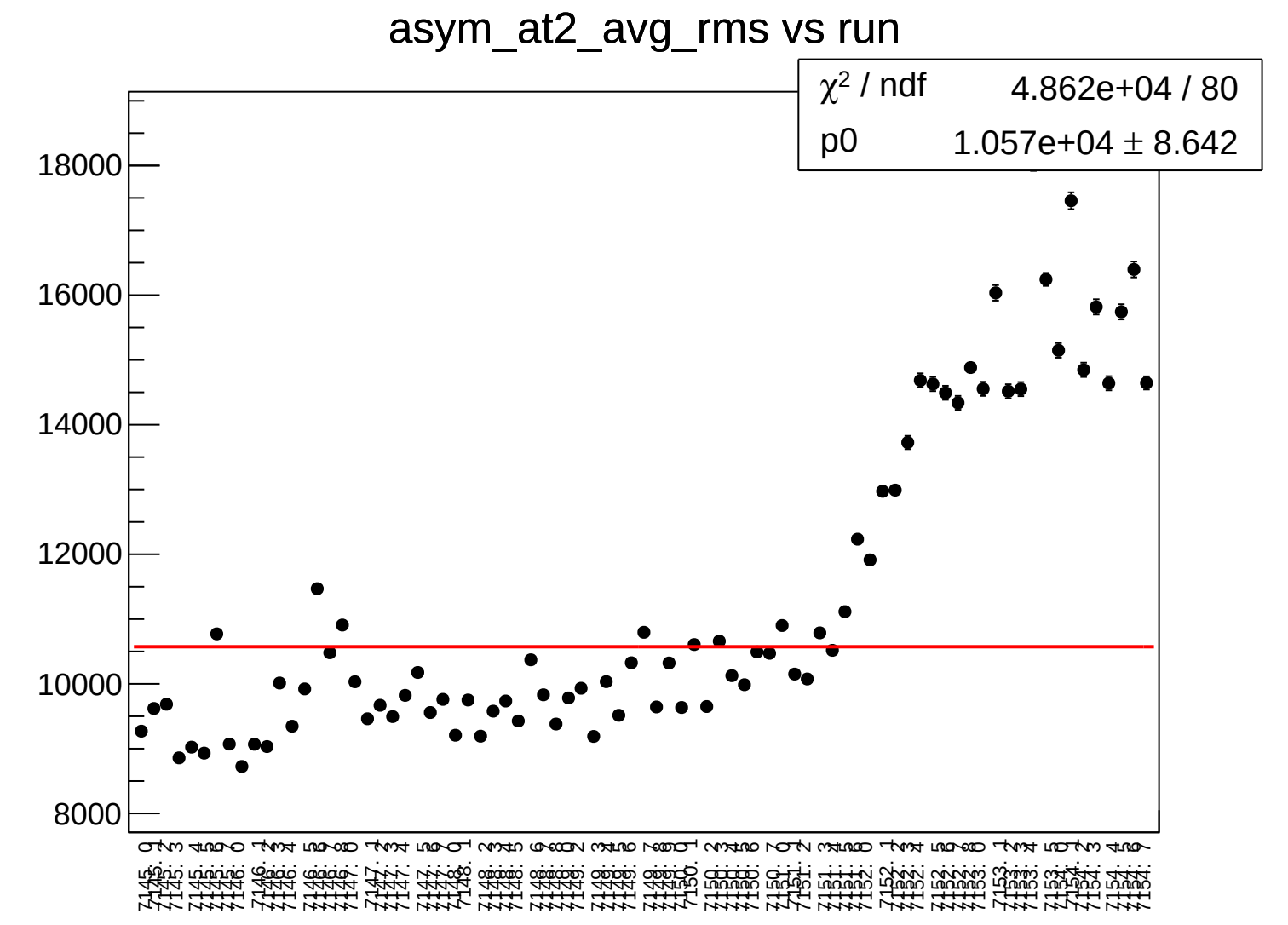

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 60.85 / 80
p0 1520 ± 1.199e+04
400
200
0
−200
−400
pull
Entries 81
Mean 210.5
Std Dev 144.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

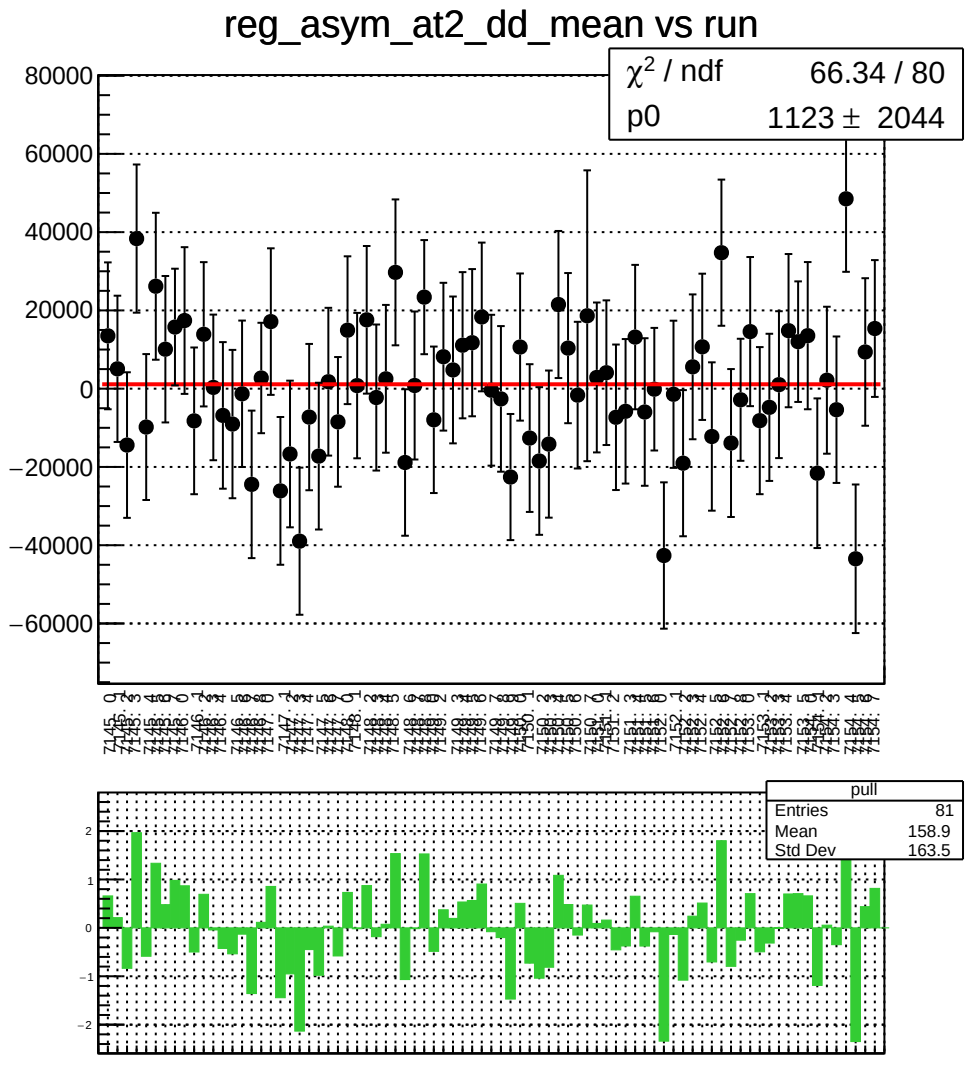

pull1D
Entries 81
Mean 0.01201
Std Dev 0.8667
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

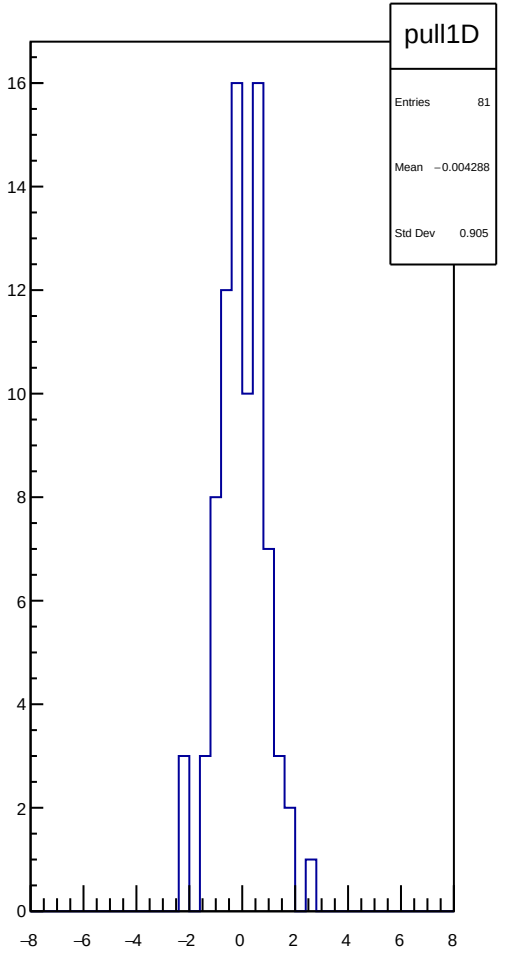

asym_at2_avg_correction_rms vs run
χ² / ndf 5.117e+04 / 80
p0 1.036e+04 ± 8.478
18000
16000
14000
12000
10000
8000

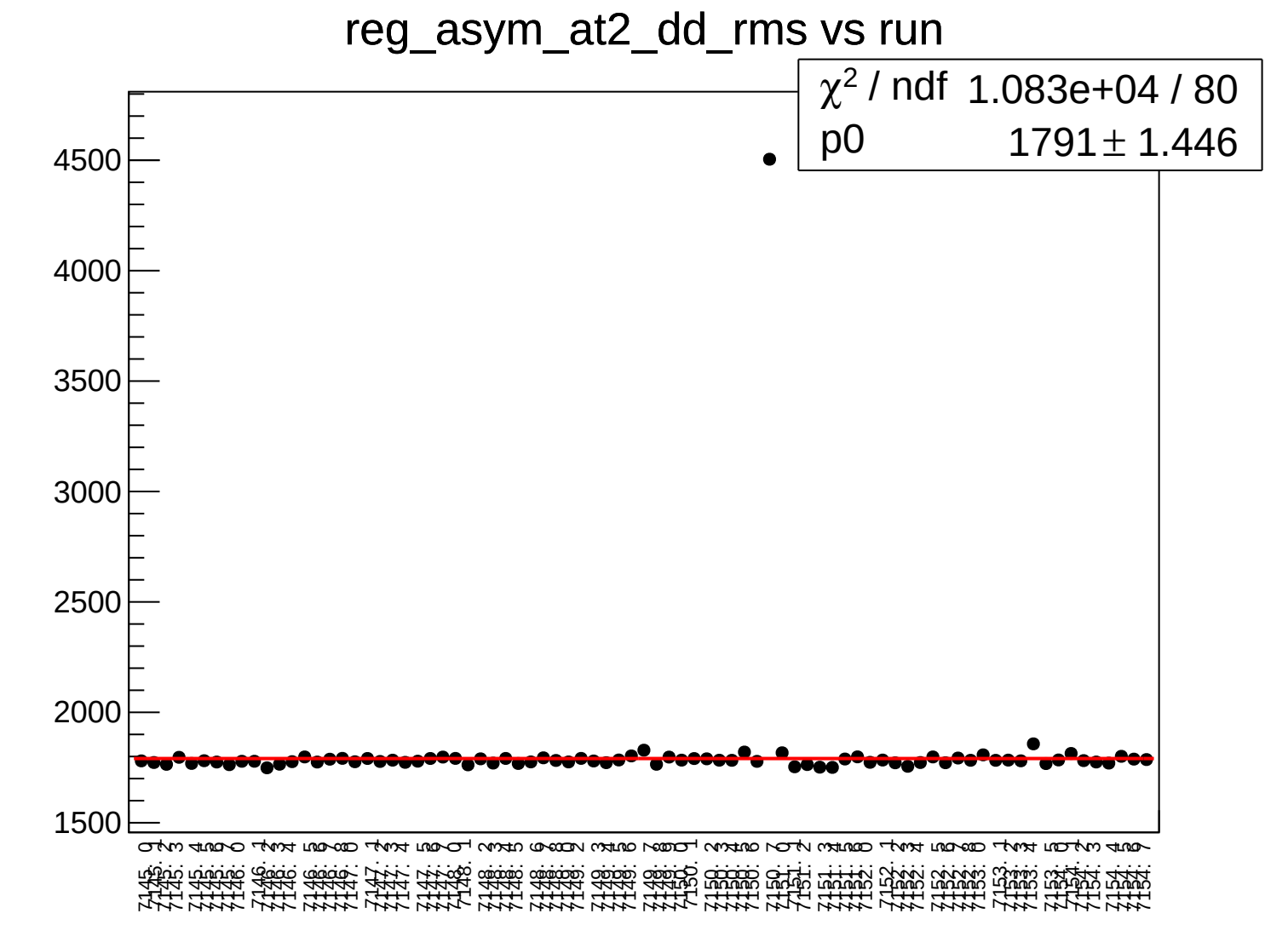

asym_at2_avg_mean vs run
×10^3
χ² / ndf 61.36 / 80
p0 −6051 ± 1.222e+04
400
200
0
−200
−400
pull
Entries 81
Mean 314.8
Std Dev 256.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

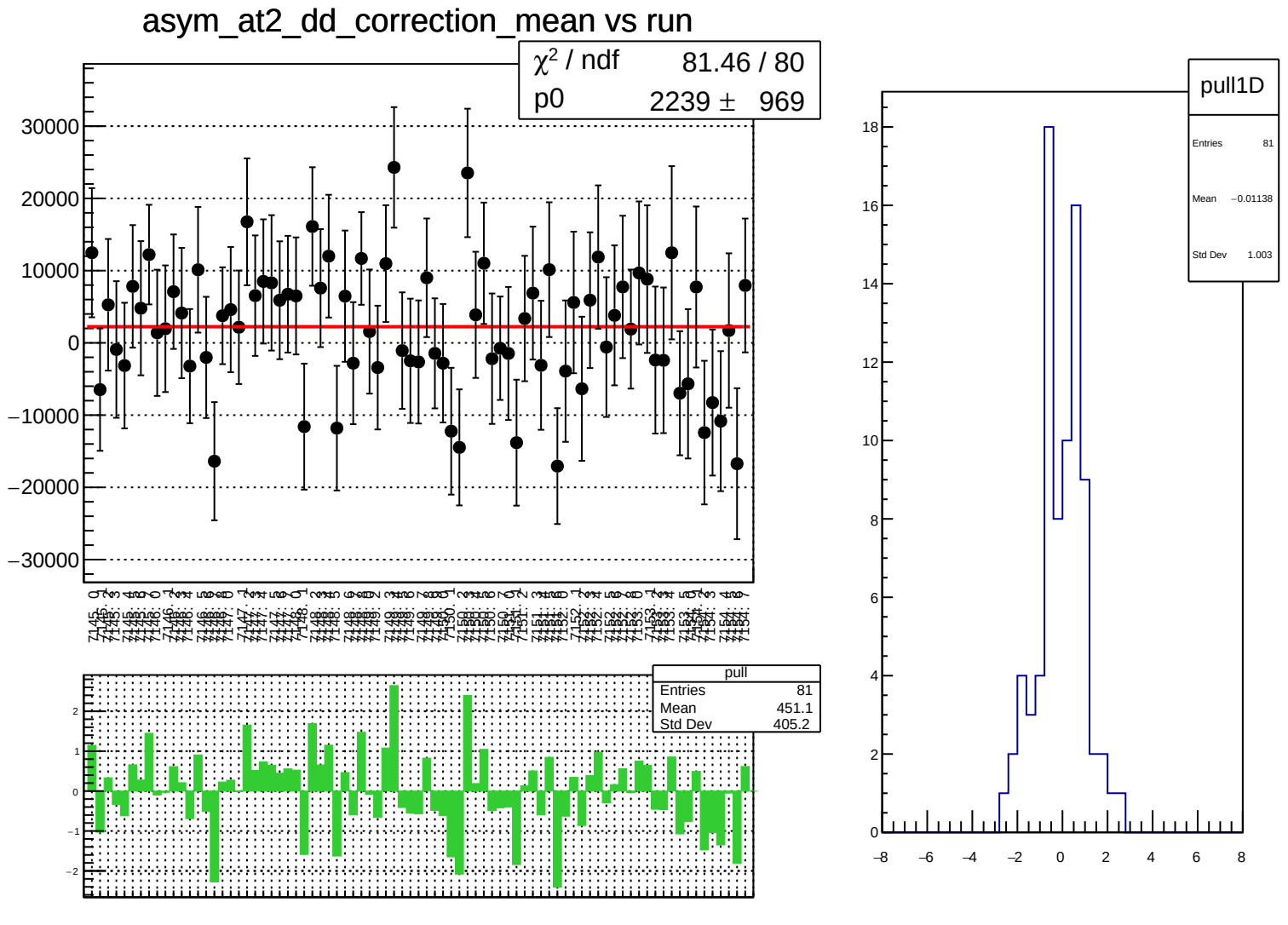

pull1D
Entries 81
Mean −0.008416
Std Dev 0.8703
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

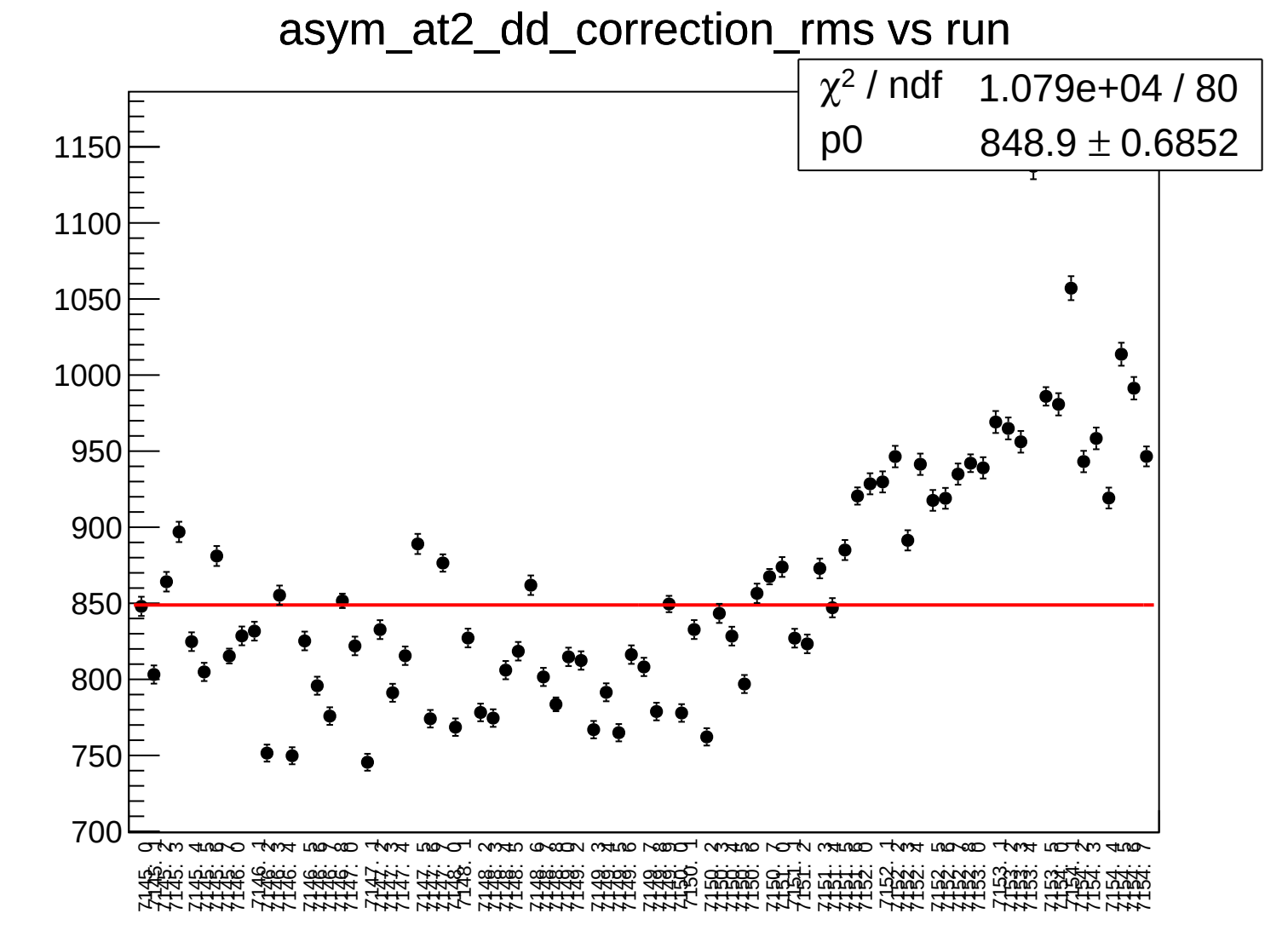

asym_at2_avg_rms vs run
χ² / ndf 4.862e+04 / 80
p0 1.057e+04 ± 8.642
18000
16000
14000
12000
10000
8000

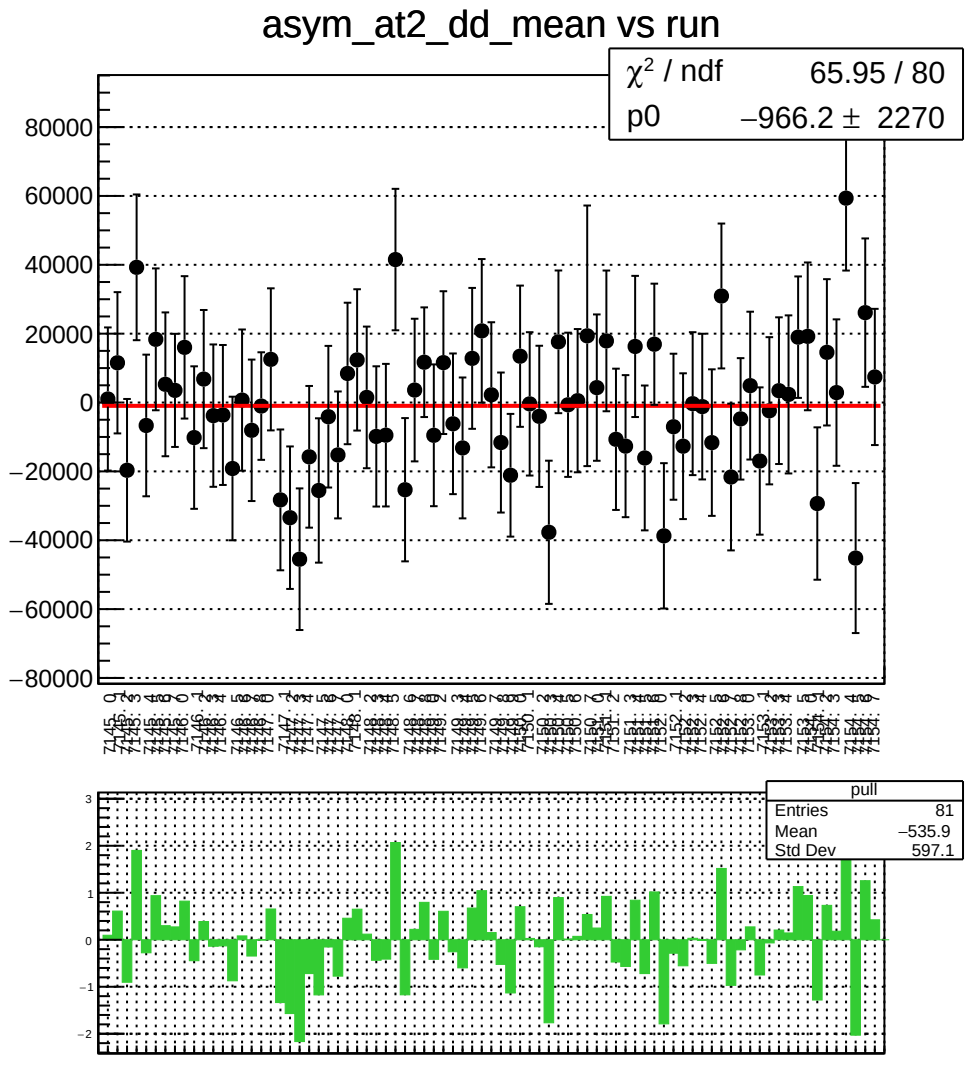

reg_asym_at2_dd_mean vs run
χ² / ndf 66.34 / 80
p0 1123 ± 2044
pull
Entries 81
Mean 158.9
Std Dev 163.5

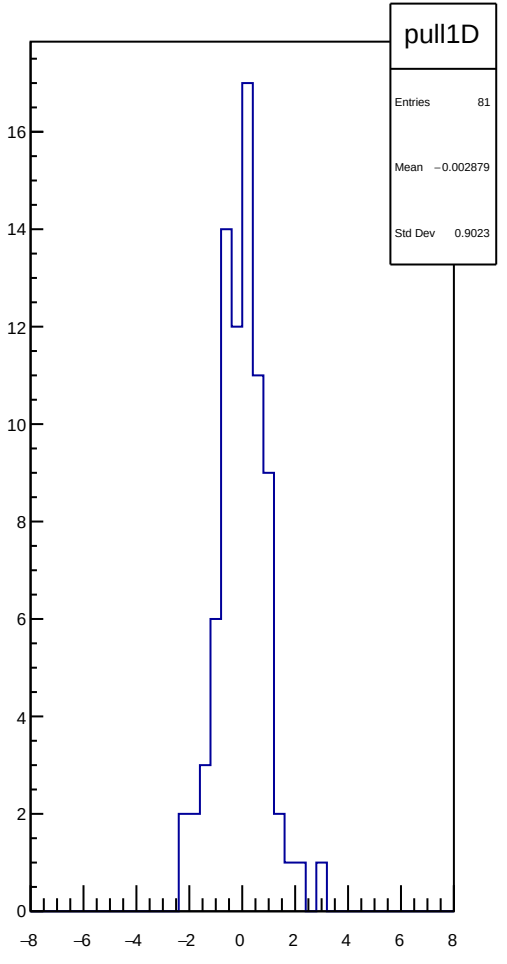

pull1D
Entries 81
Mean −0.004288
Std Dev 0.905

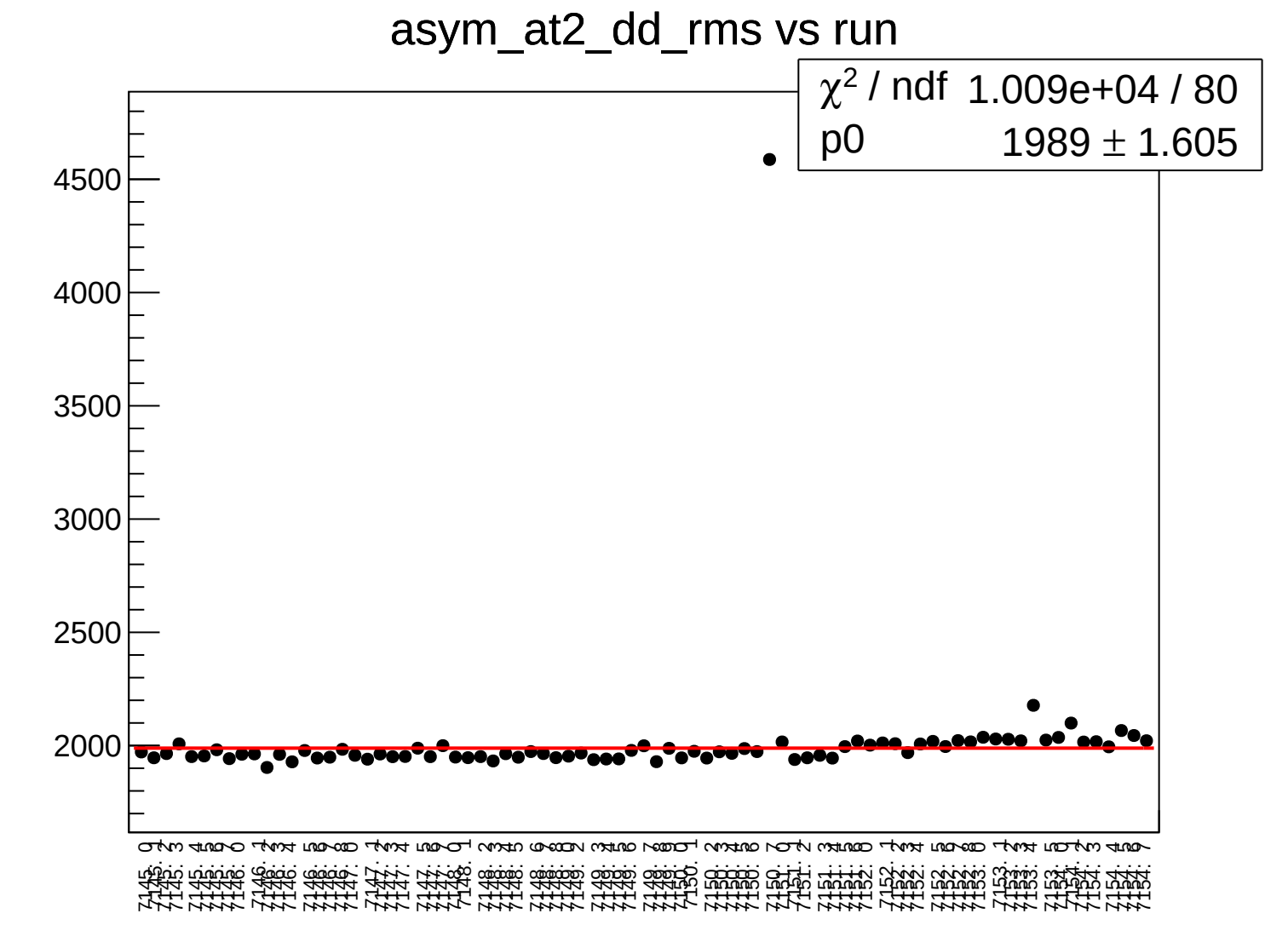

reg_asym_at2_dd_rms vs run
χ² / ndf 1.083e+04 / 80
p0 1791 ± 1.446
4500
4000
3500
3000
2500
2000
1500

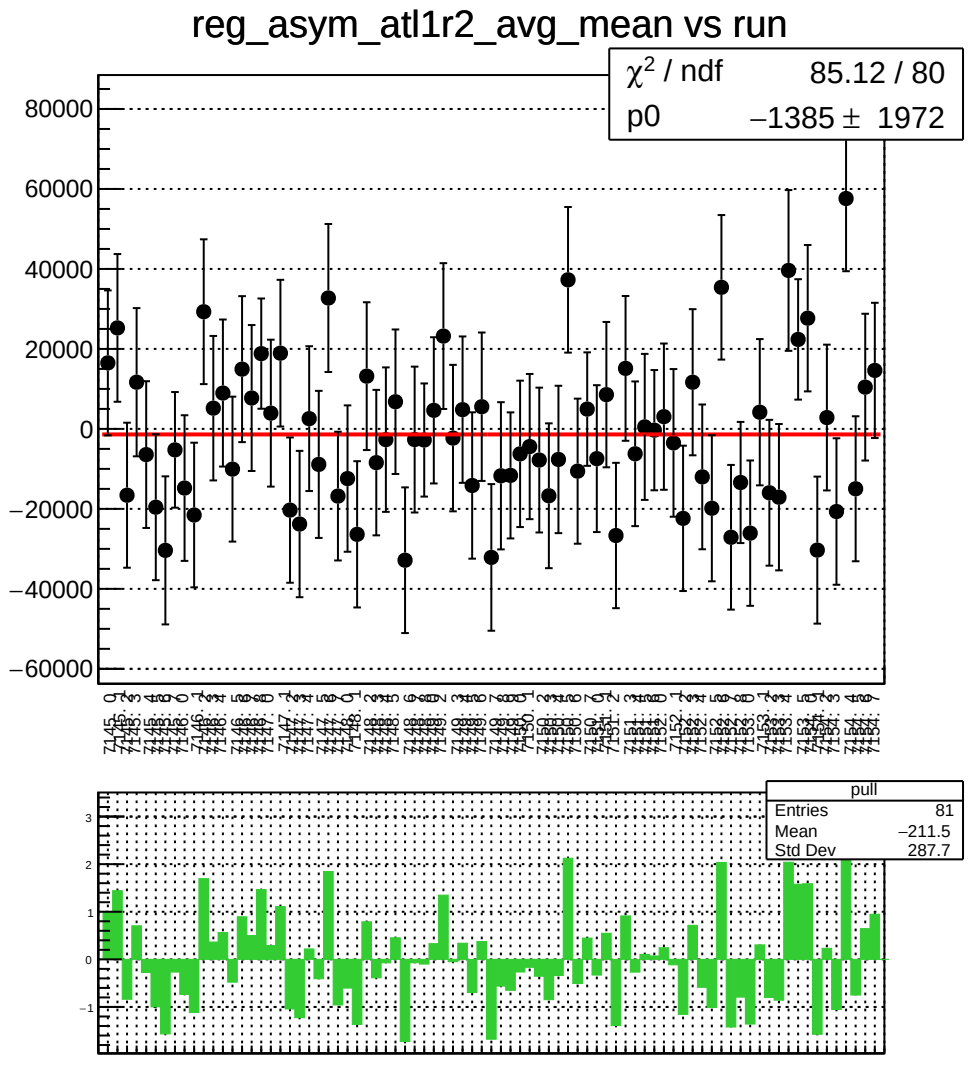

asym_at2_dd_correction_mean vs run
χ² / ndf 81.46 / 80
p0 2239 ± 969
pull
Entries 81
Mean 451.1
Std Dev 405.2
pull1D
Entries 81
Mean −0.01138
Std Dev 1.003

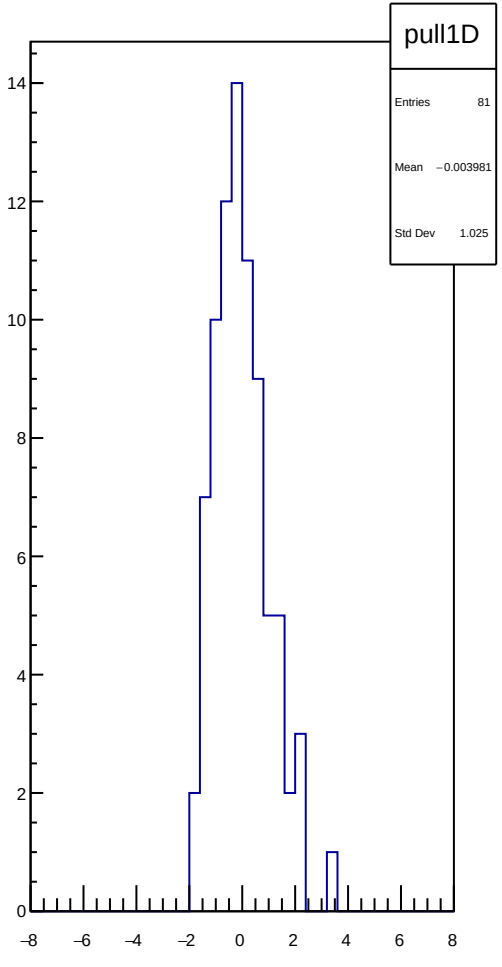

asym_at2_dd_correction_rms vs run
χ² / ndf 1.079e+04 / 80
p0 848.9 ± 0.6852
1150
1100
1050
1000
950
900
850
800
750
700

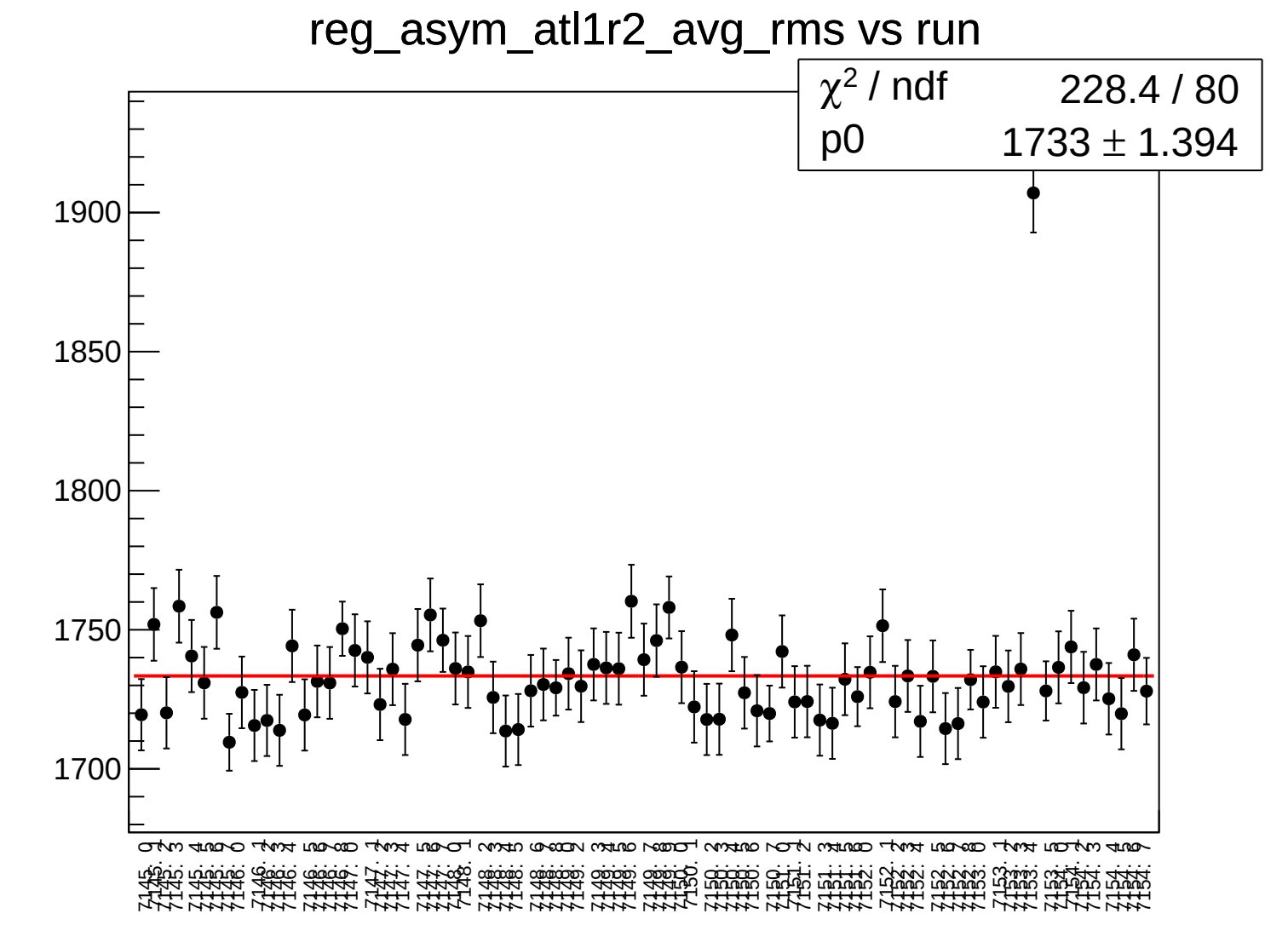

asym_at2_dd_mean vs run
χ² / ndf 65.95 / 80
p0 −966.2 ± 2270
pull
Entries 81
Mean −535.9
Std Dev 597.1

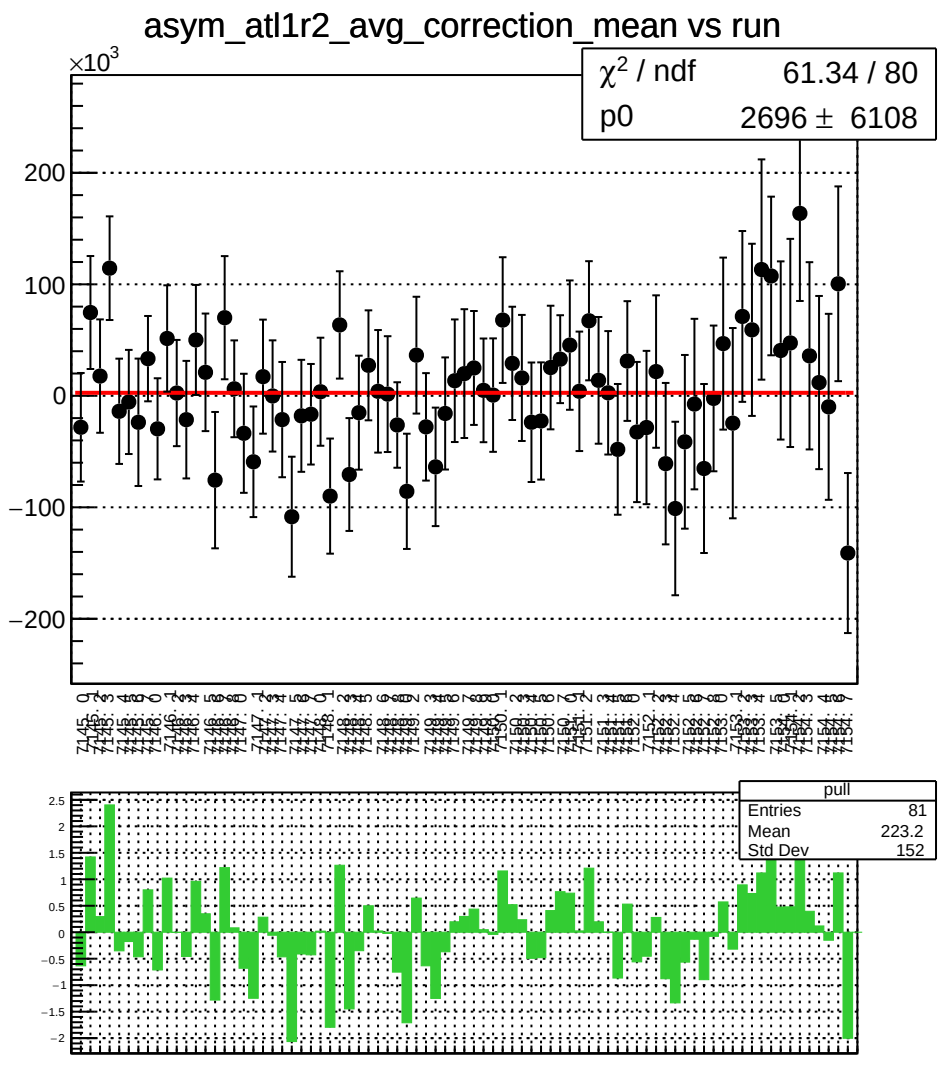

pull1D
Entries 81
Mean −0.002879
Std Dev 0.9023

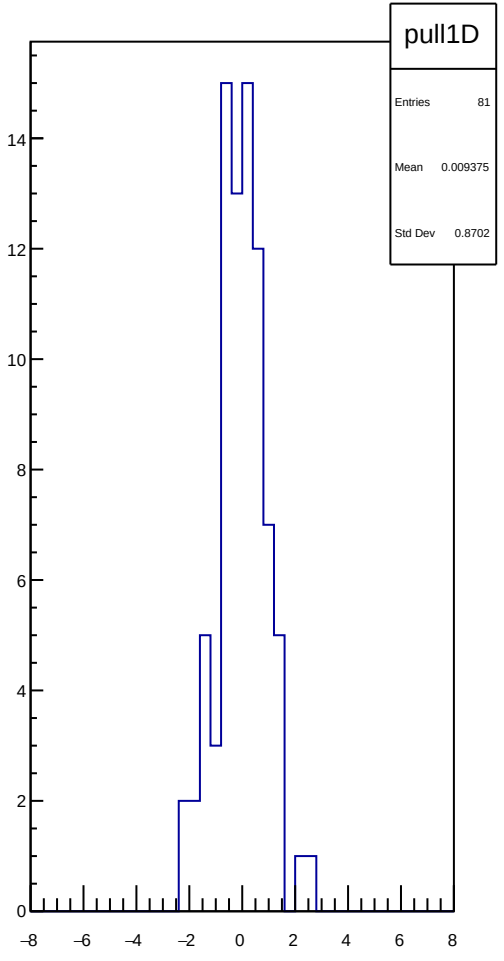

asym_at2_dd_rms vs run
χ² / ndf 1.009e+04 / 80
p0 1989 ± 1.605
4500
4000
3500
3000
2500
2000

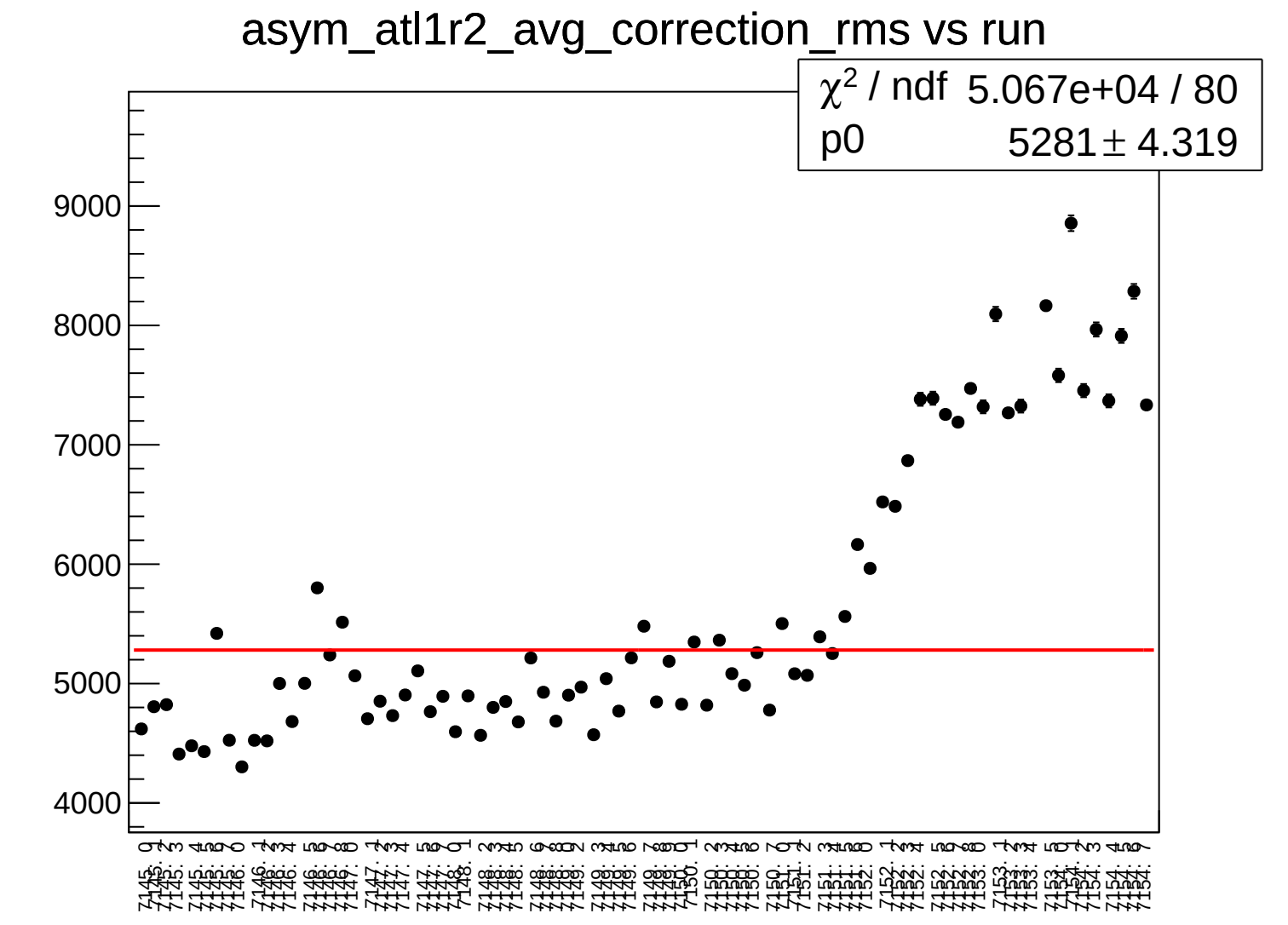

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 85.12 / 80
p0 −1385 ± 1972
pull
Entries 81
Mean −211.5
Std Dev 287.7

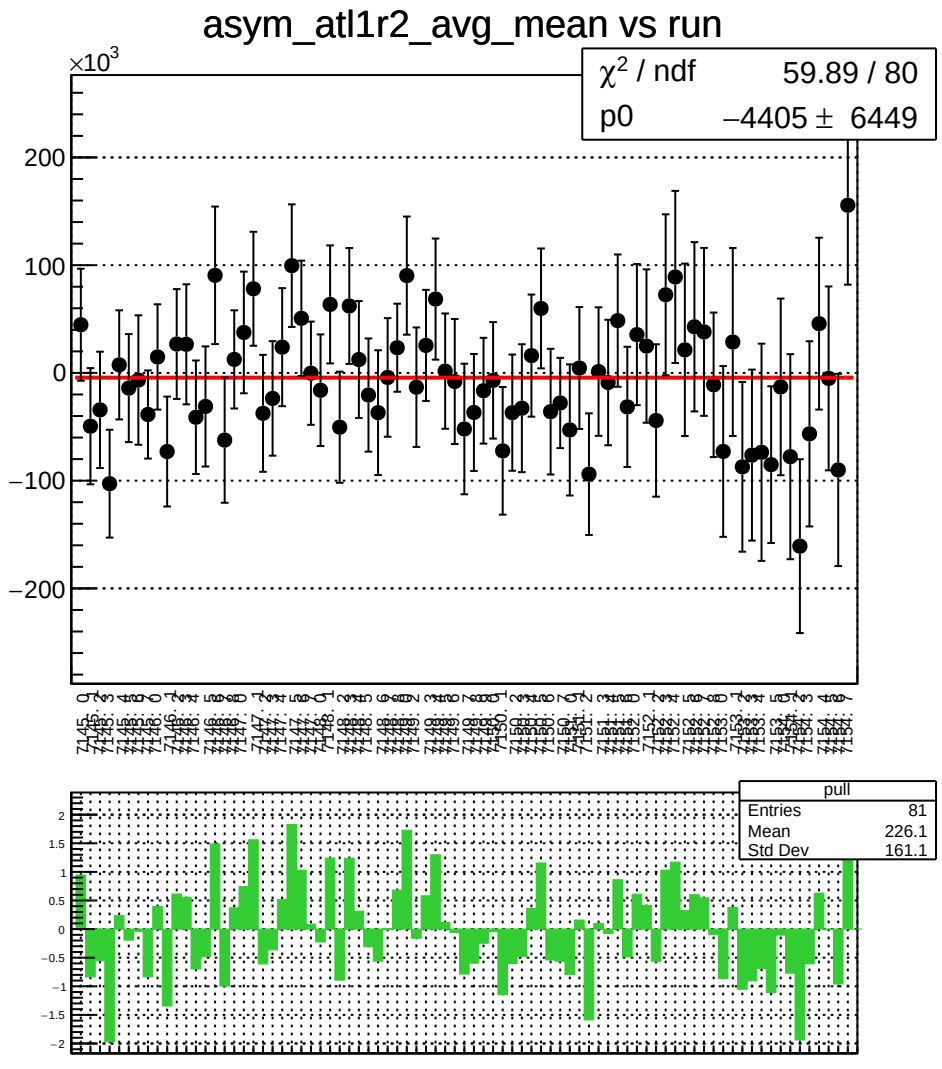

pull1D
Entries 81
Mean −0.003981
Std Dev 1.025

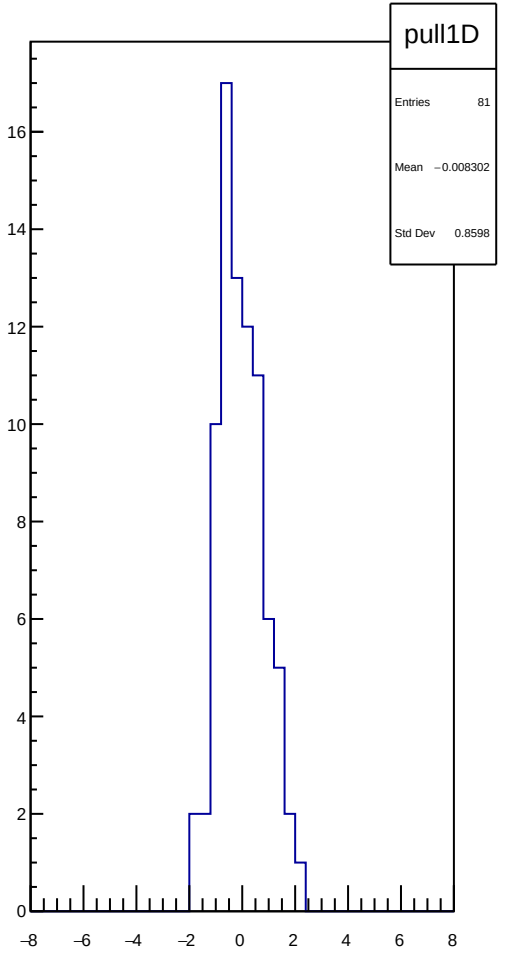

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 228.4 / 80
p0 1733 ± 1.394
1900
1850
1800
1750
1700

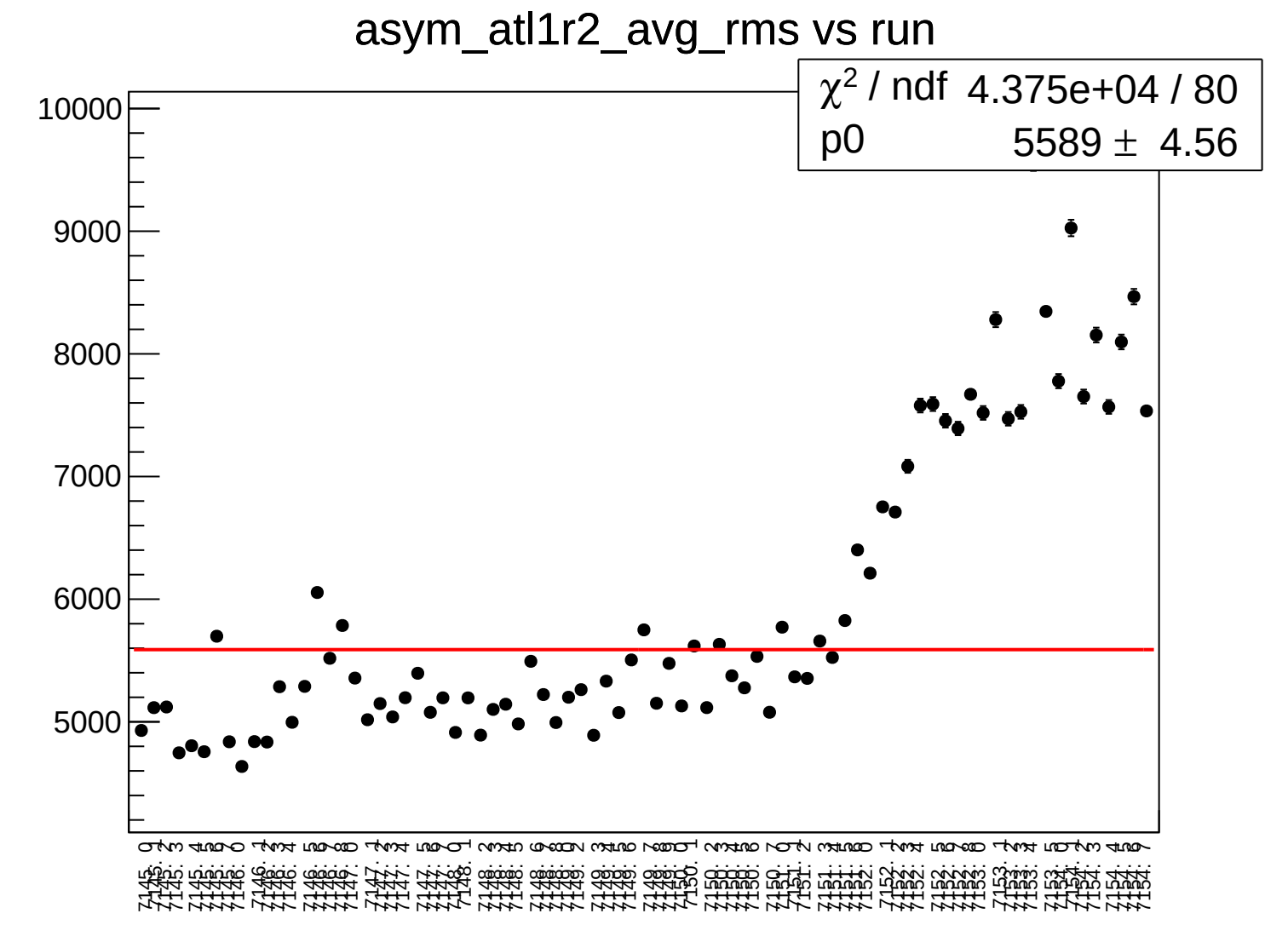

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 61.34 / 80
p0 2696 ± 6108
200
100
0
−100
−200
pull
Entries 81
Mean 223.2
Std Dev 152
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

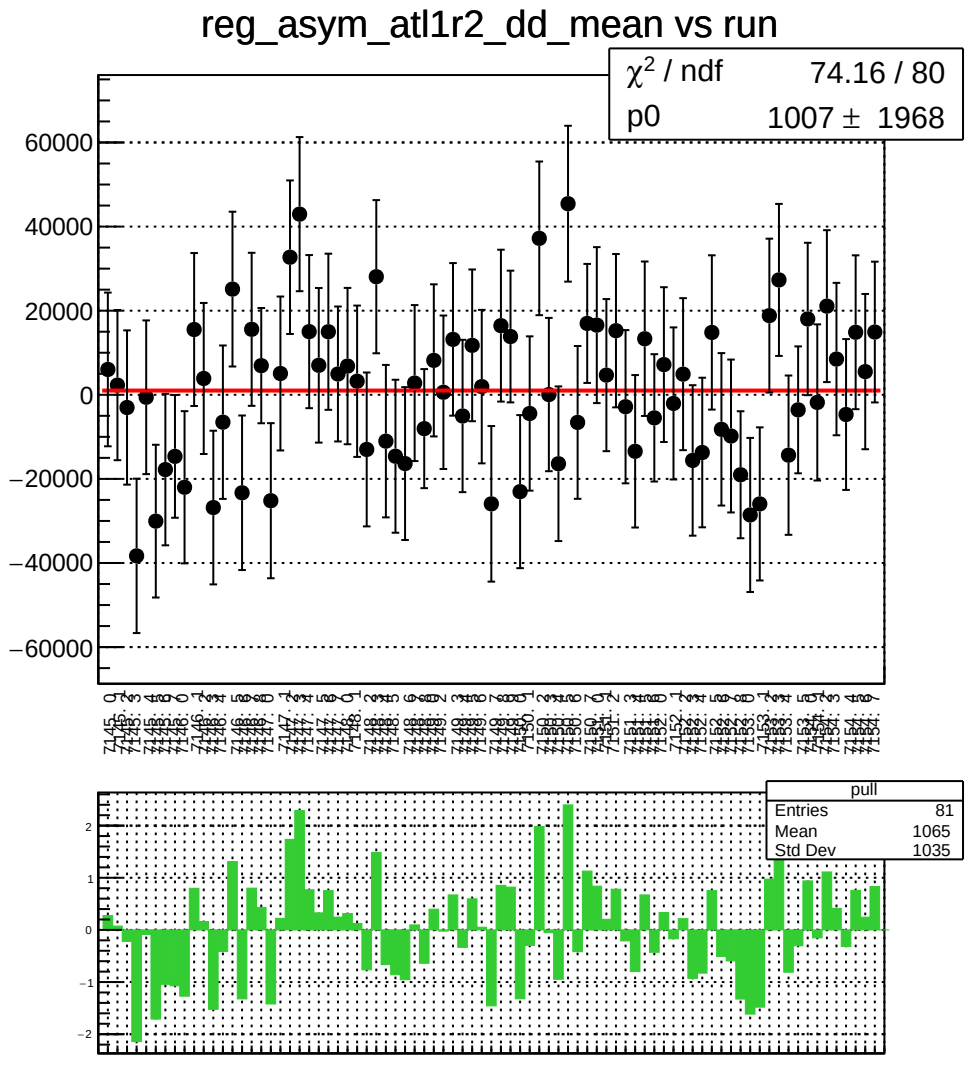

pull1D
Entries 81
Mean 0.009375
Std Dev 0.8702
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

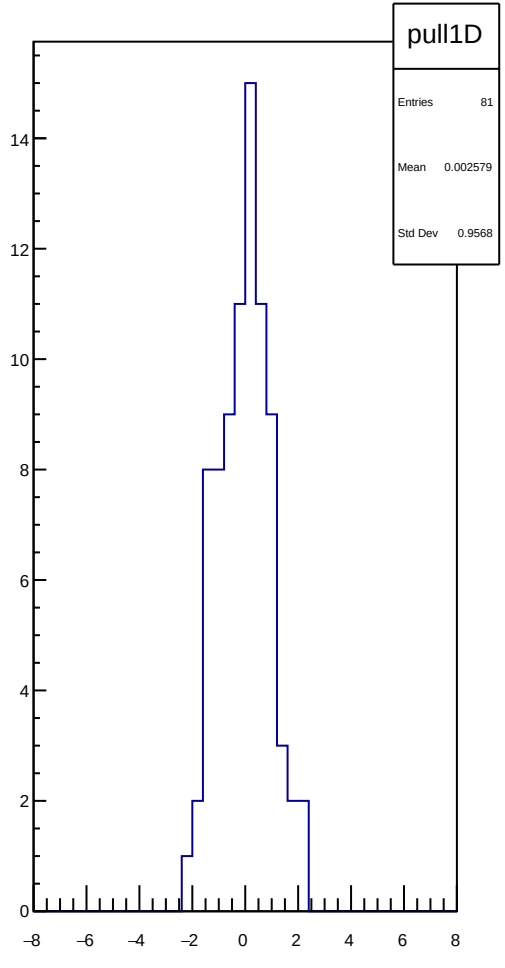

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 5.067e+04 / 80
p0 5281 ± 4.319
9000
8000
7000
6000
5000
4000

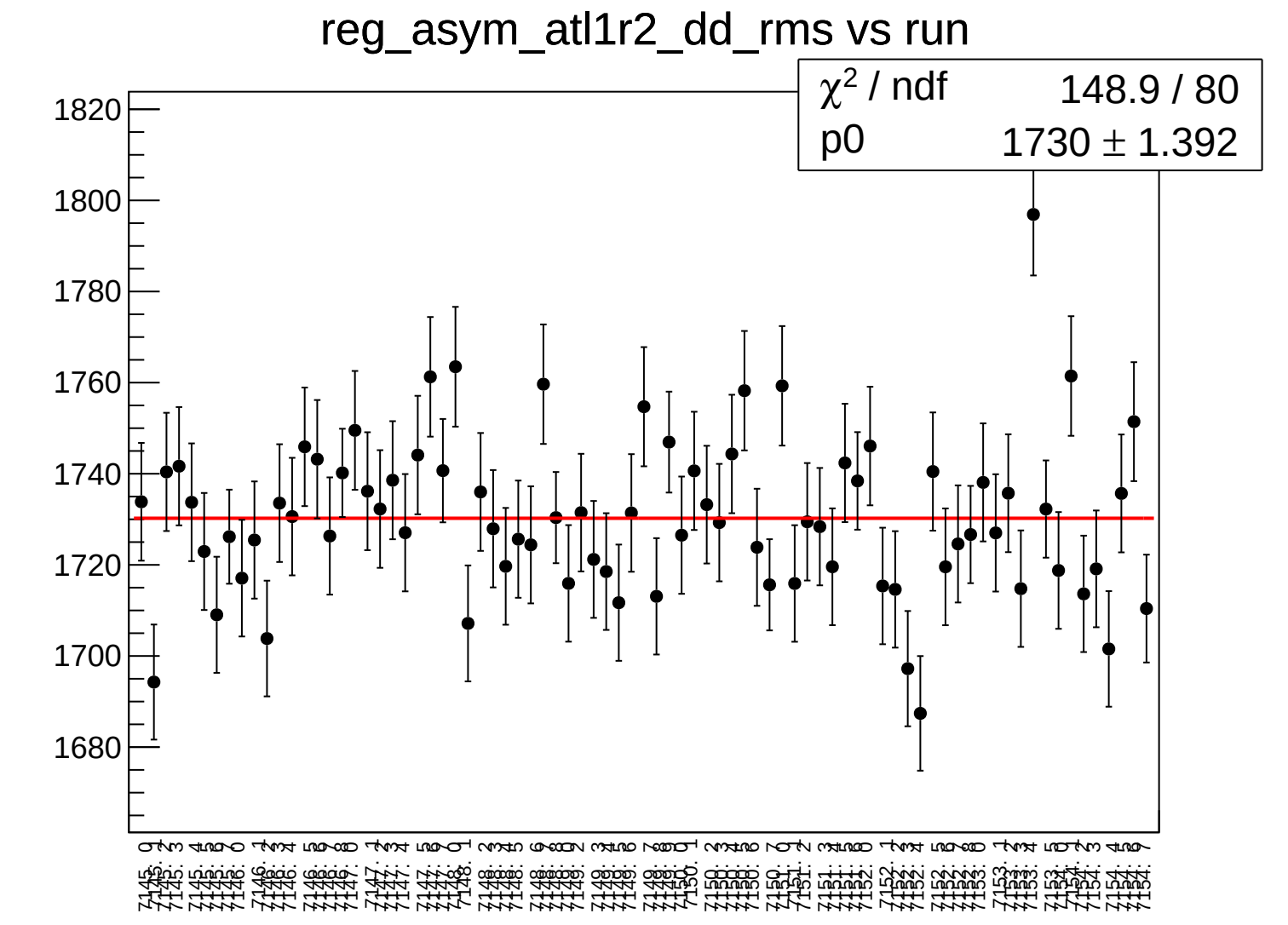

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 59.89 / 80
p0 −4405 ± 6449
200
100
0
−100
−200
pull
Entries 81
Mean 226.1
Std Dev 161.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

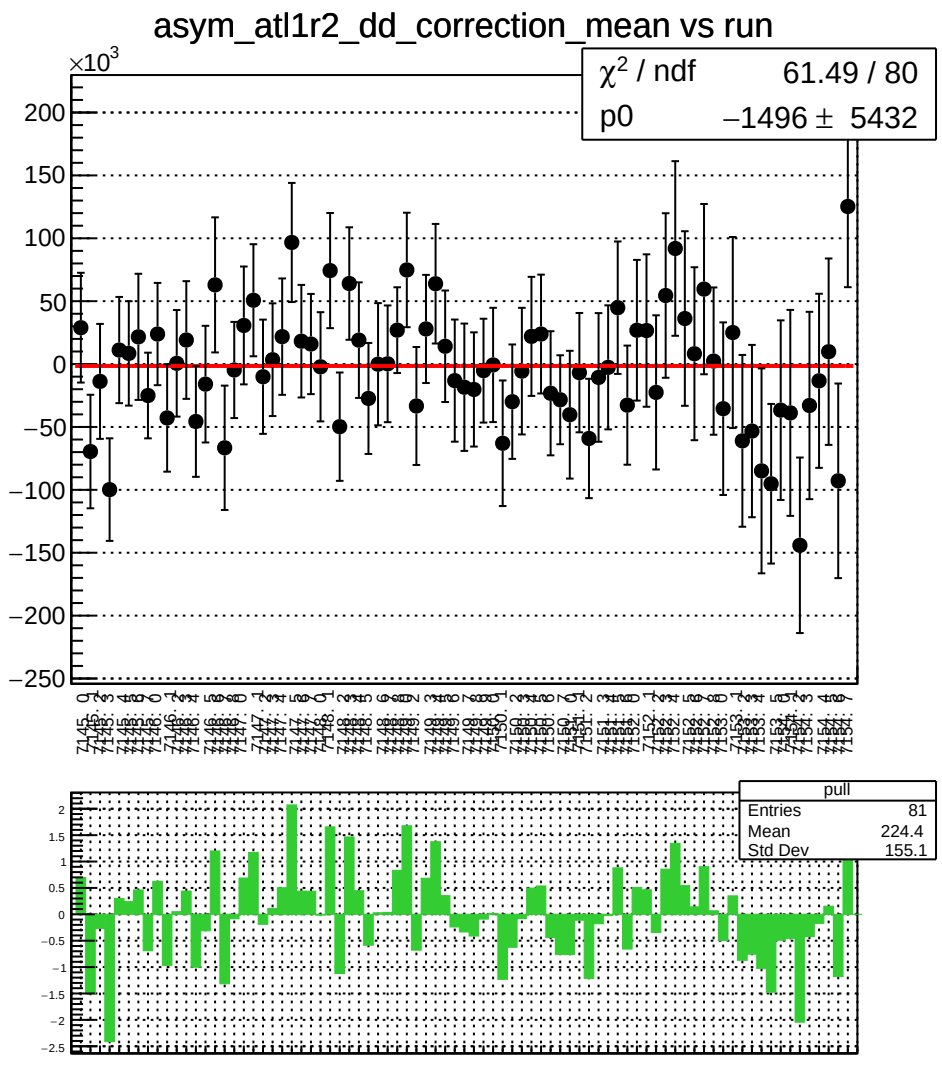

pull1D
Entries 81
Mean −0.008302
Std Dev 0.8598
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

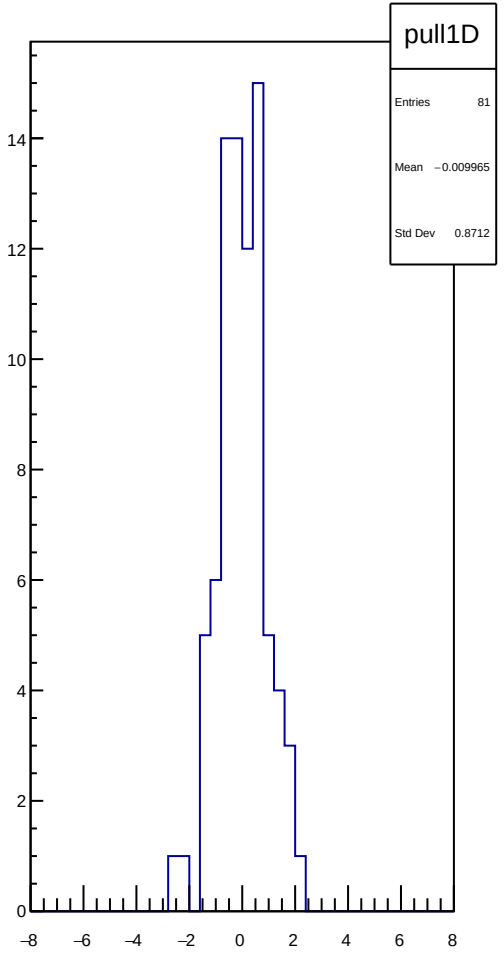

asym_atl1r2_avg_rms vs run
χ² / ndf 4.375e+04 / 80
p0 5589 ± 4.56
10000
9000
8000
7000
6000
5000

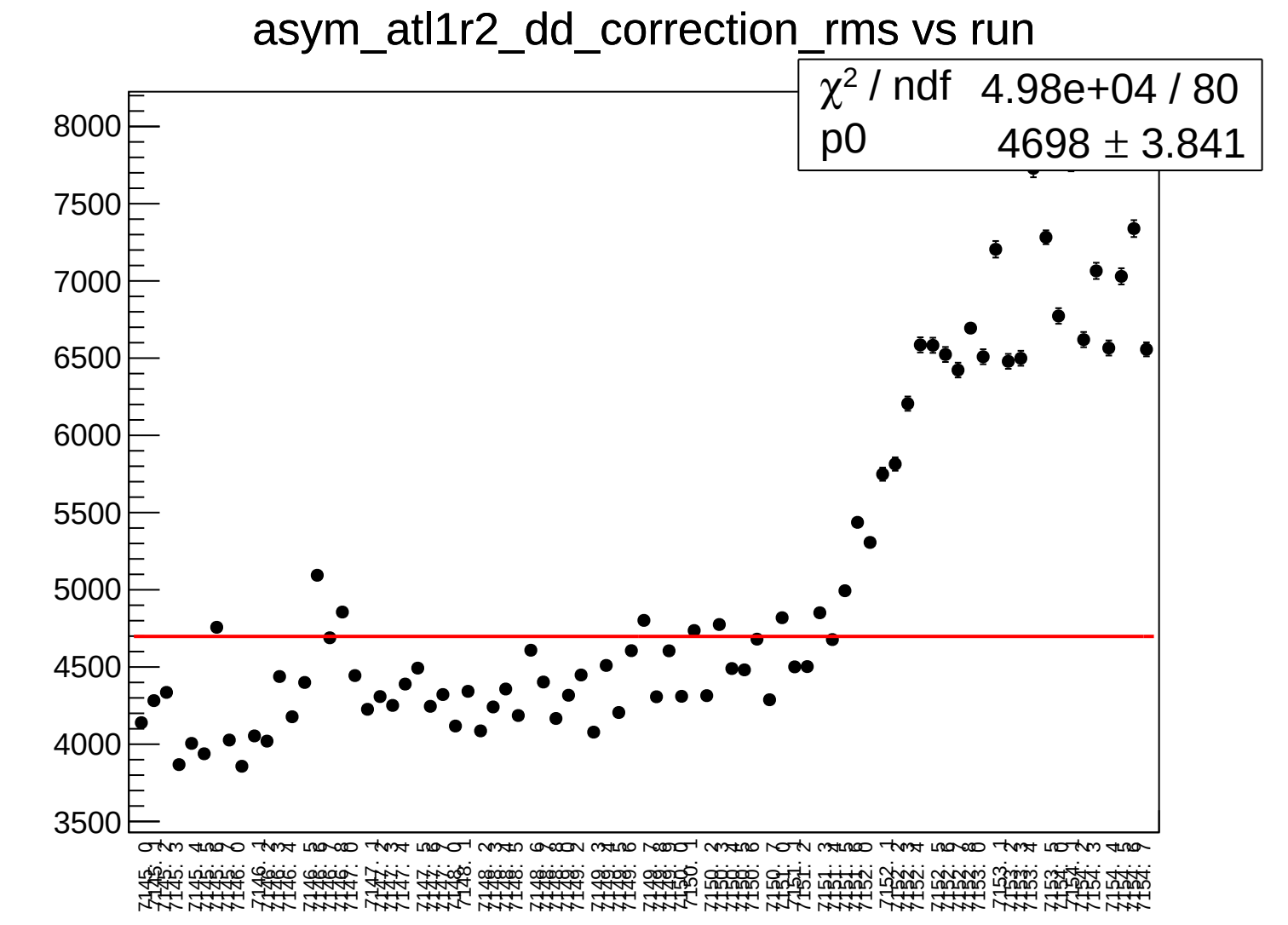

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 74.16 / 80
p0 1007 ± 1968
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 1065
Std Dev 1035
2
1
0
−1
−2

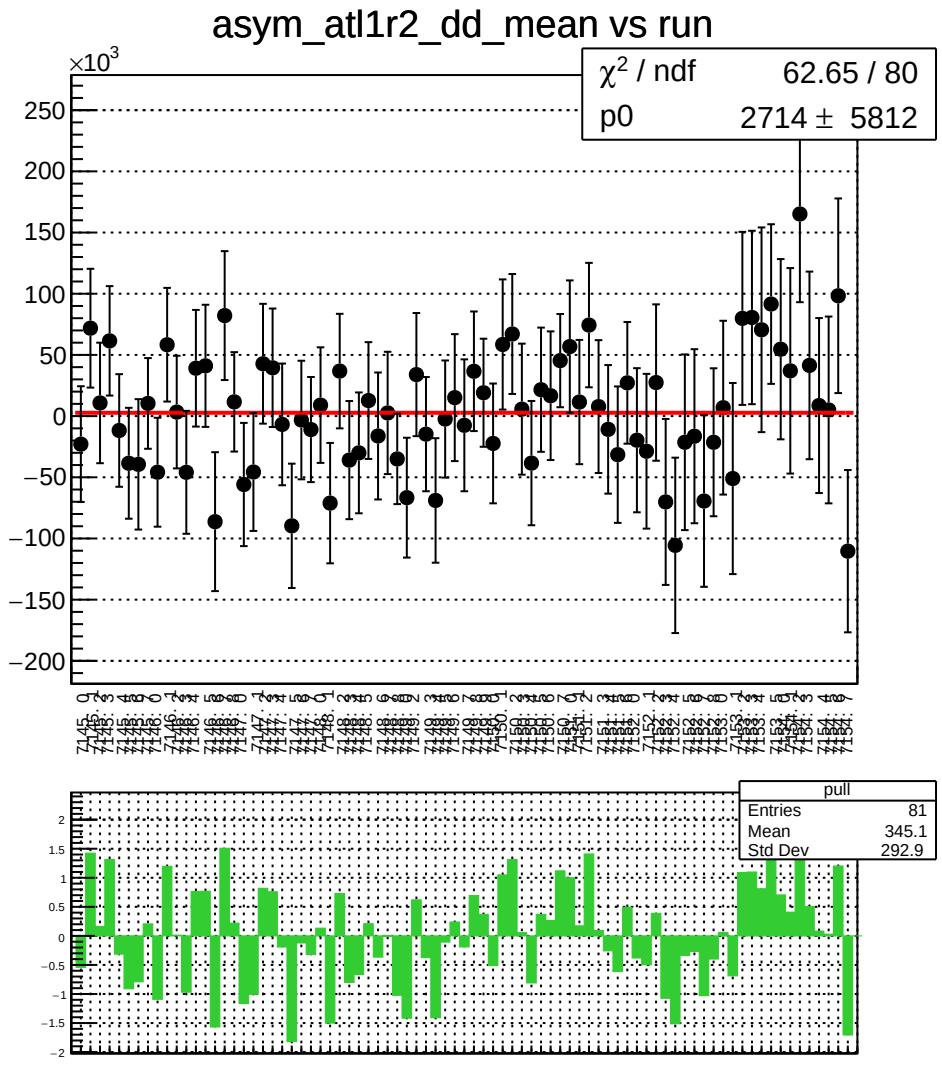

pull1D
Entries 81
Mean 0.002579
Std Dev 0.9568
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

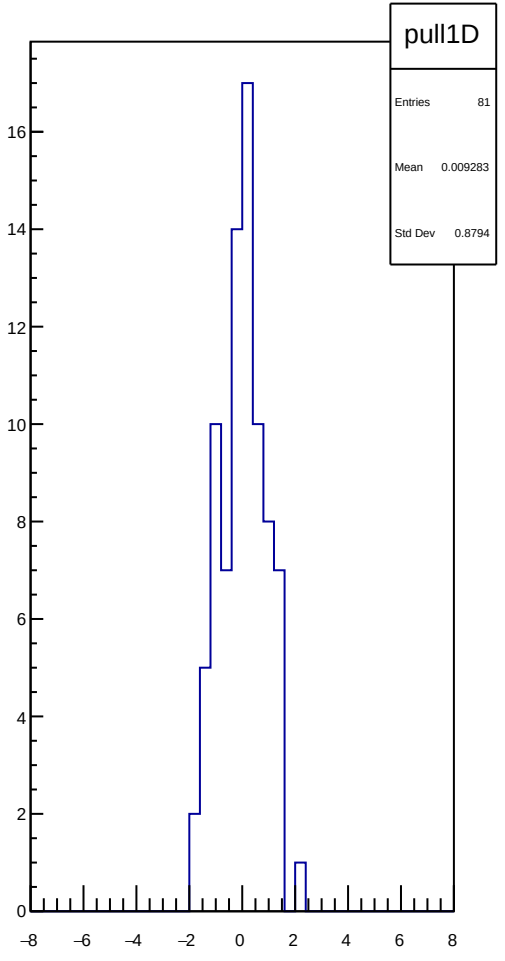

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 148.9 / 80
p0 1730 ± 1.392
1820
1800
1780
1760
1740
1720
1700
1680

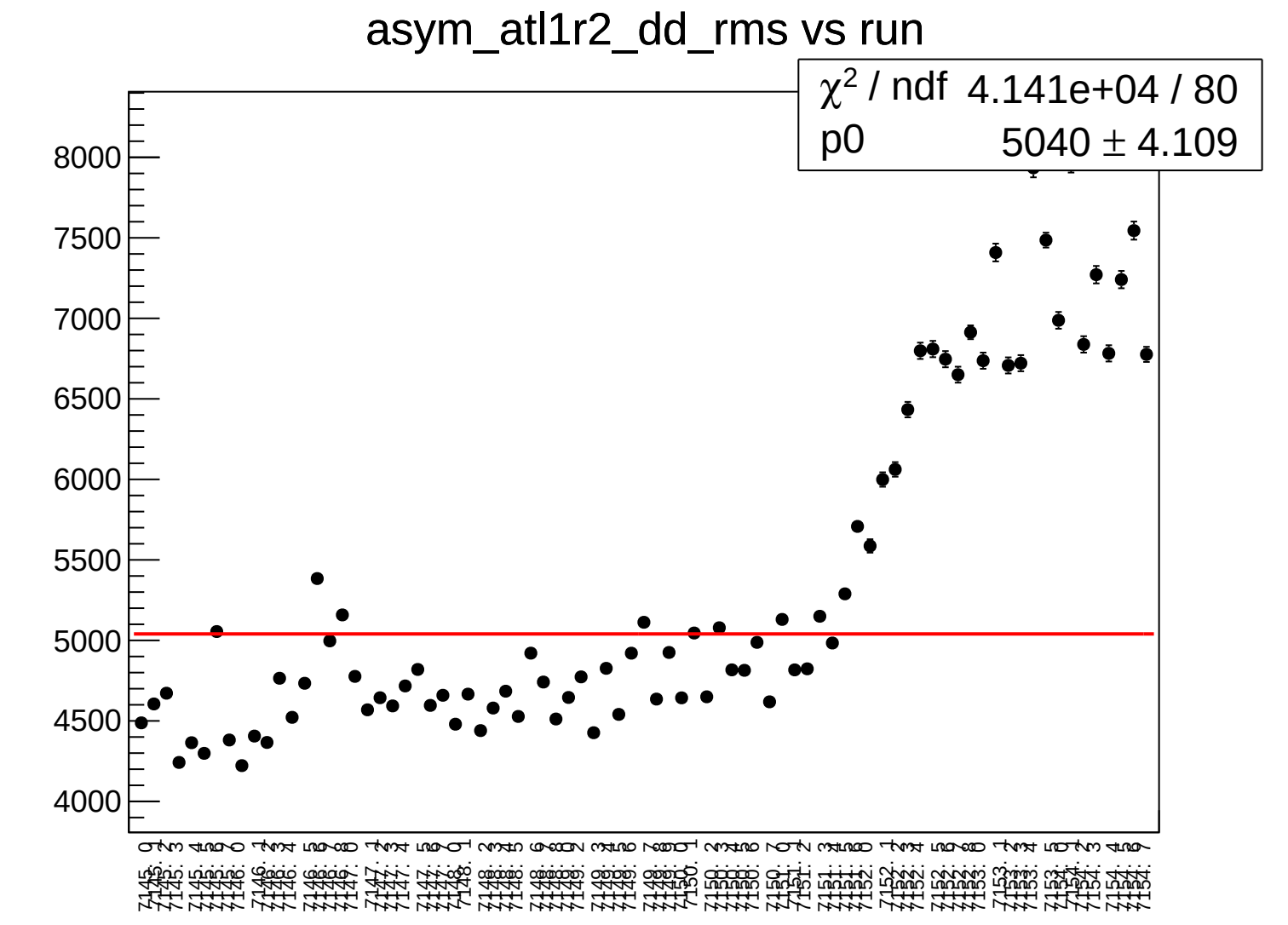

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 61.49 / 80
p0 −1496 ± 5432
pull
Entries 81
Mean 224.4
Std Dev 155.1

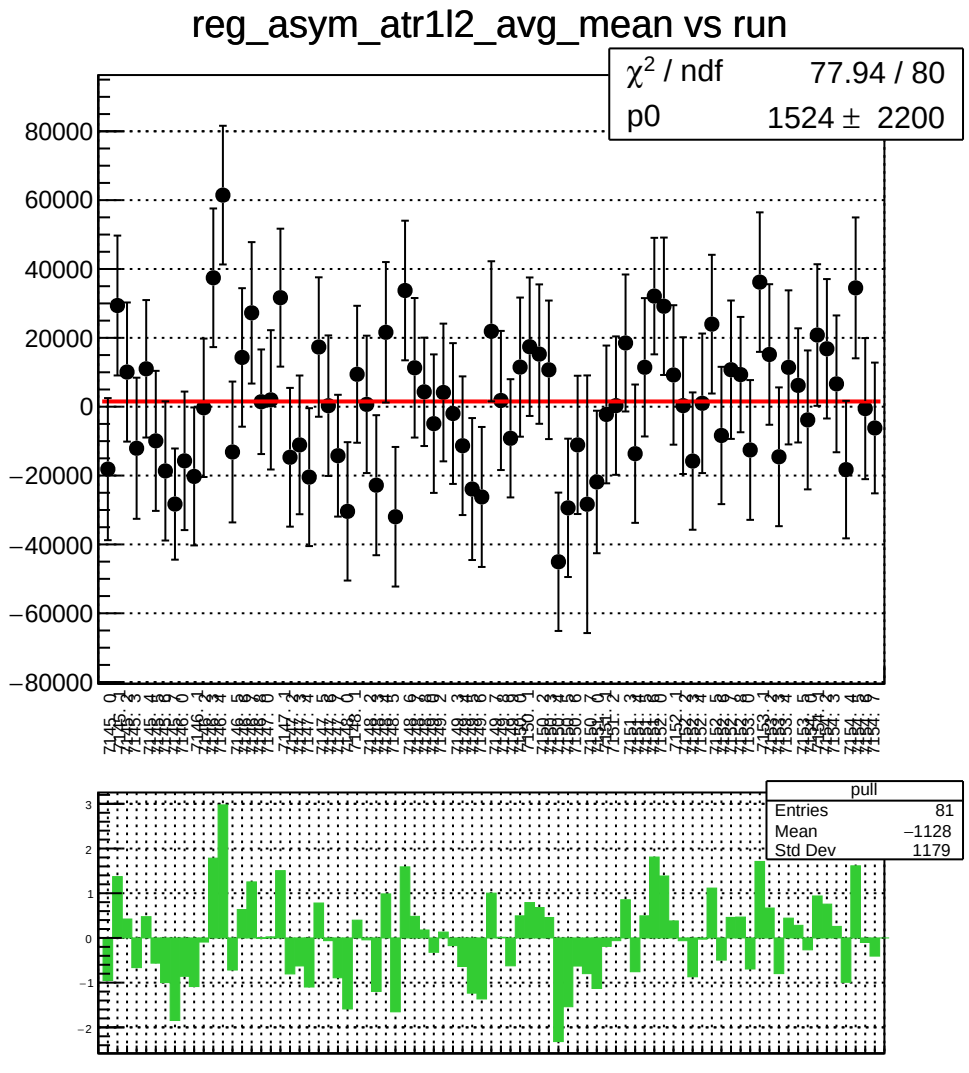

pull1D
Entries 81
Mean −0.009965
Std Dev 0.8712

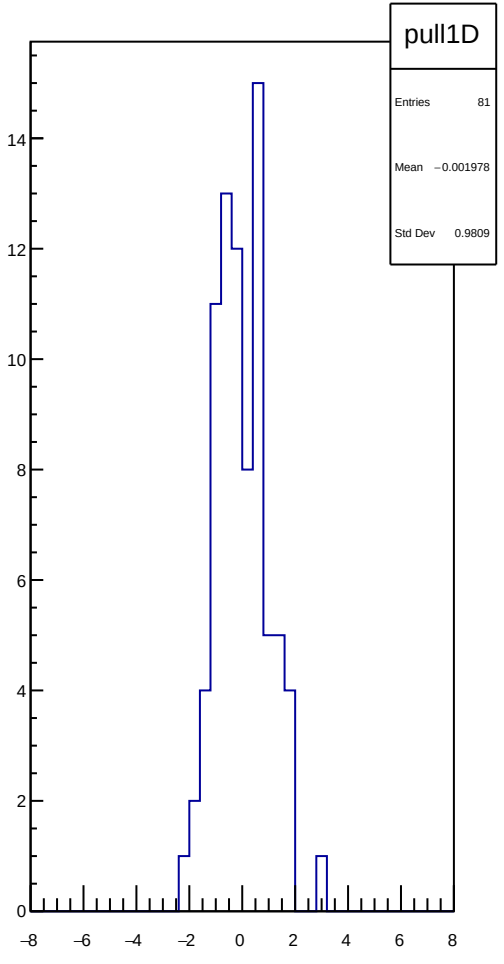

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 4.98e+04 / 80
p0 4698 ± 3.841
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500

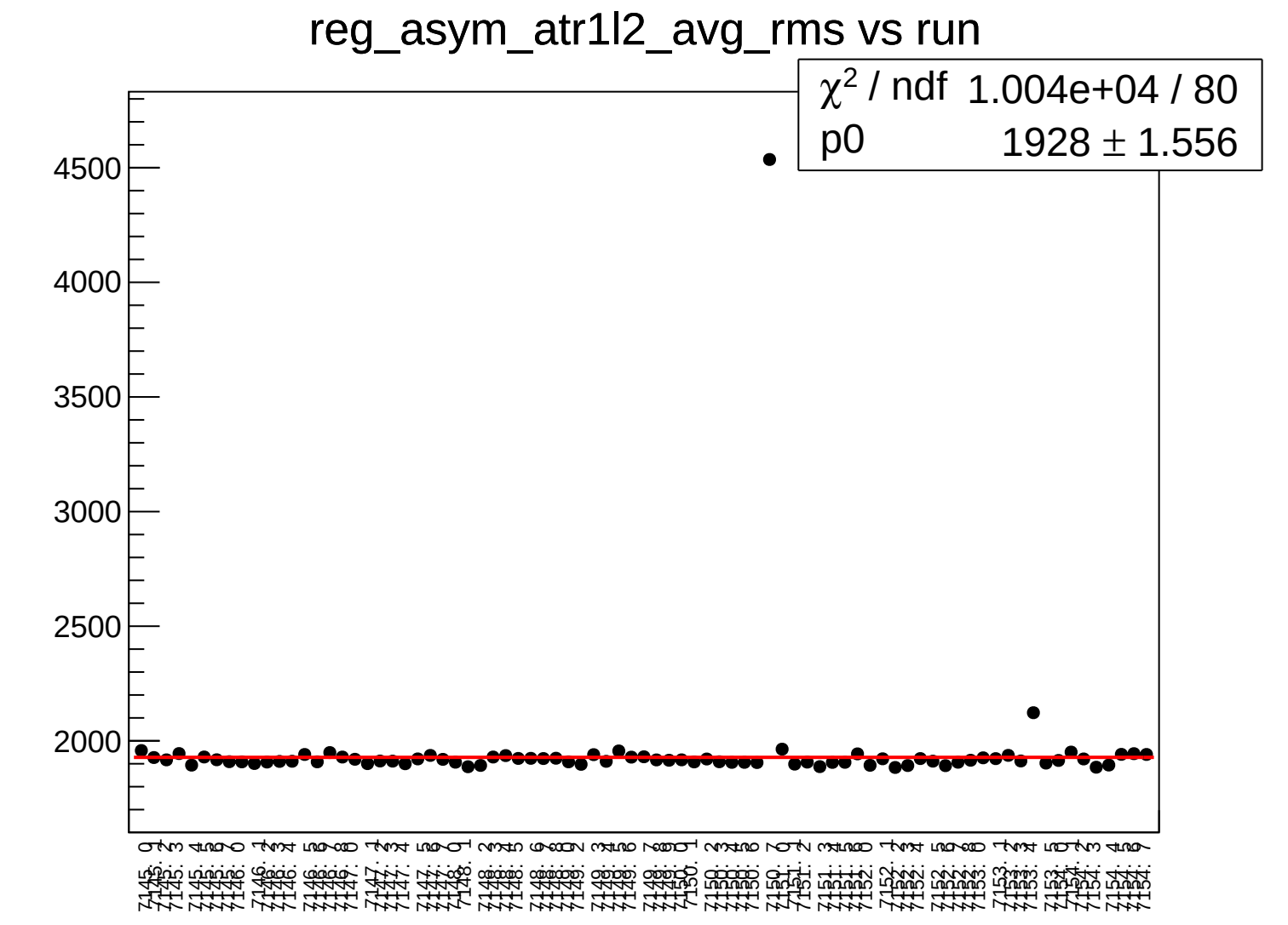

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 62.65 / 80
p0 2714 ± 5812
pull
Entries 81
Mean 345.1
Std Dev 292.9

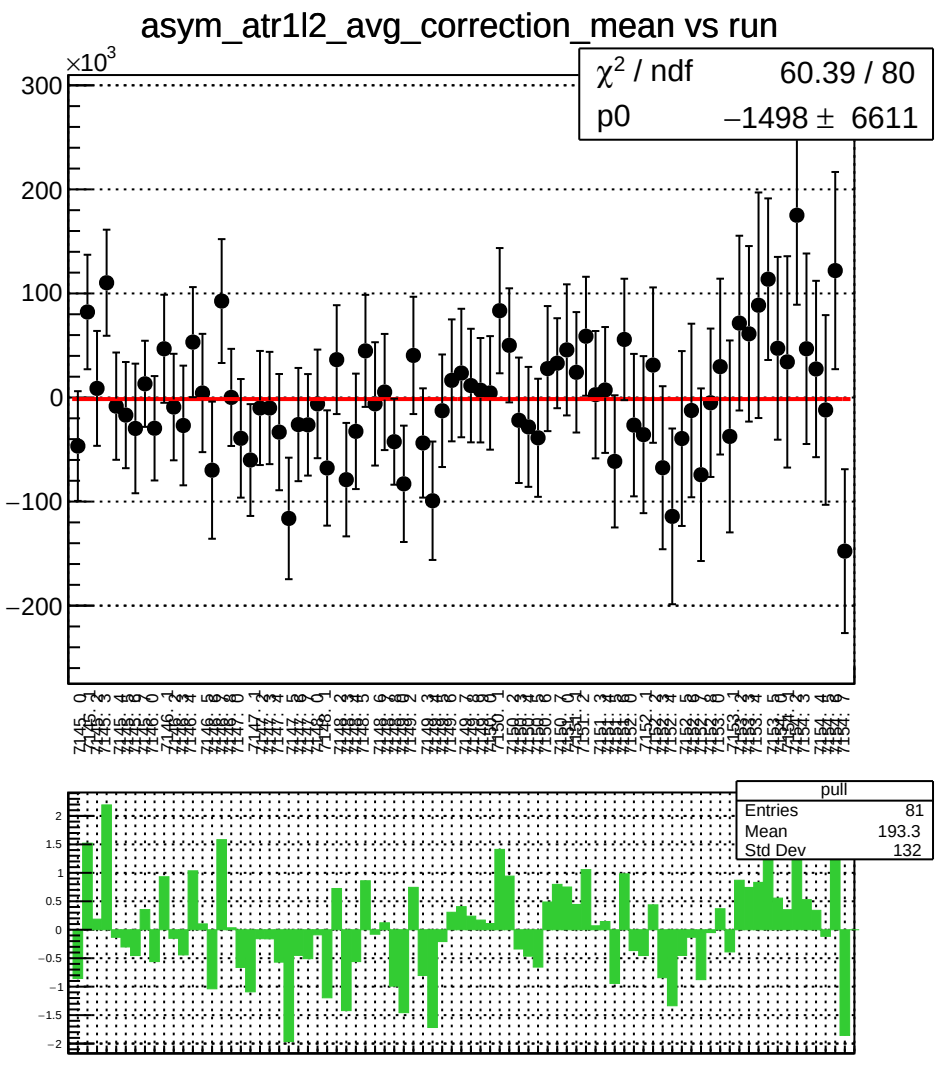

pull1D
Entries 81
Mean 0.009283
Std Dev 0.8794

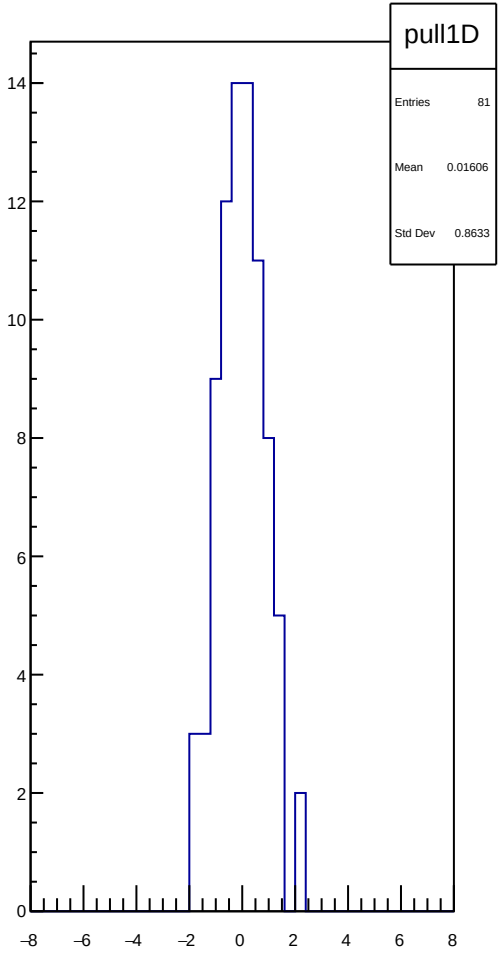

asym_atl1r2_dd_rms vs run
χ² / ndf 4.141e+04 / 80
p0 5040 ± 4.109
8000
7500
7000
6500
6000
5500
5000
4500
4000

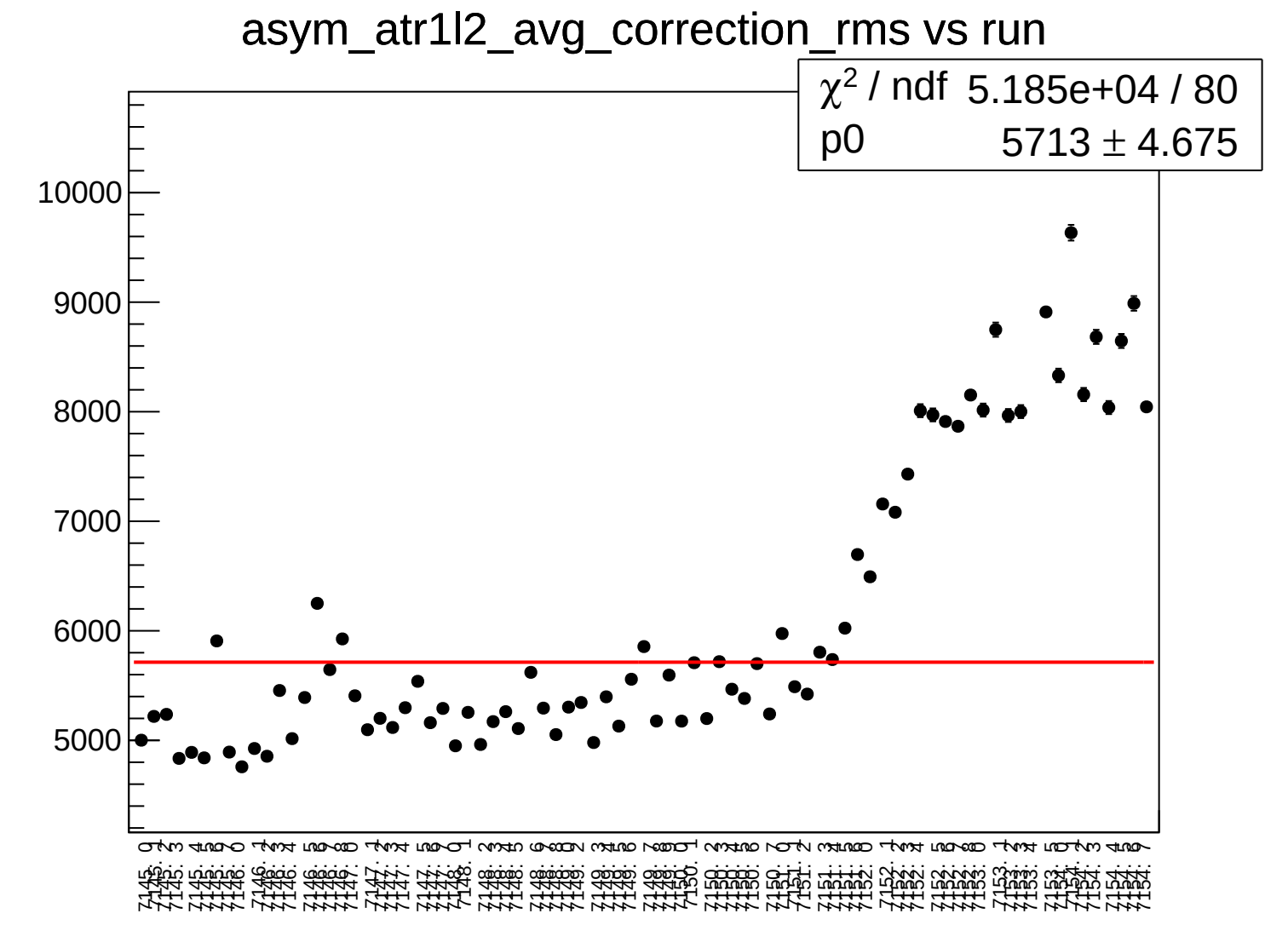

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 77.94 / 80
p0 1524 ± 2200
pull
Entries 81
Mean −1128
Std Dev 1179

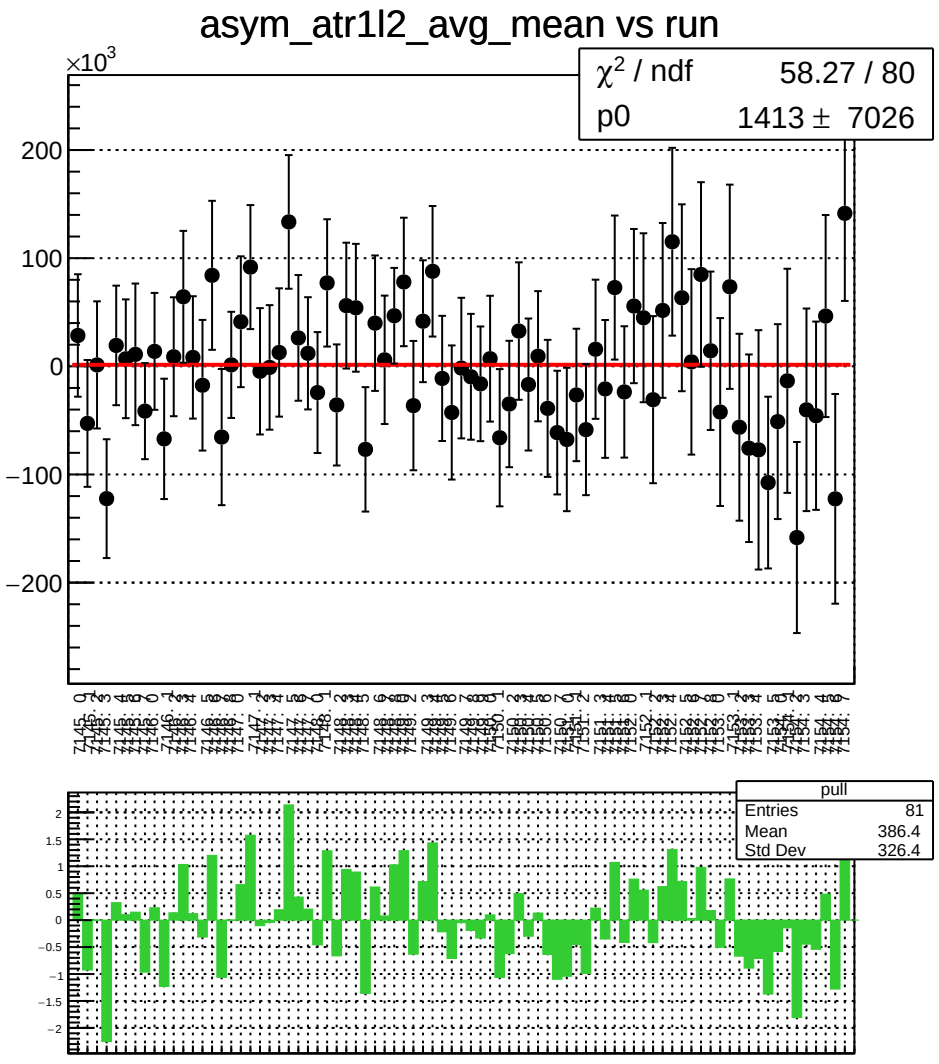

pull1D
Entries 81
Mean −0.001978
Std Dev 0.9809

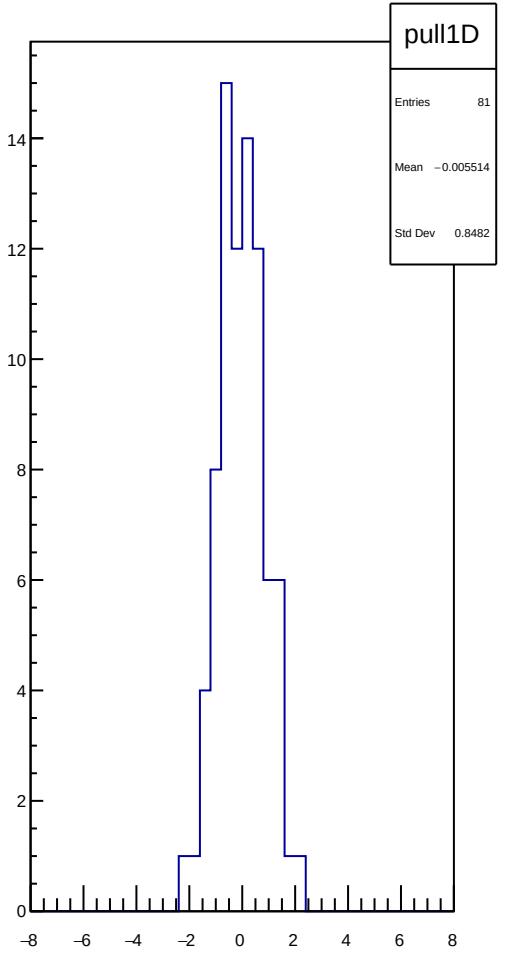

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 1.004e+04 / 80
p0 1928 ± 1.556
4500
4000
3500
3000
2500
2000

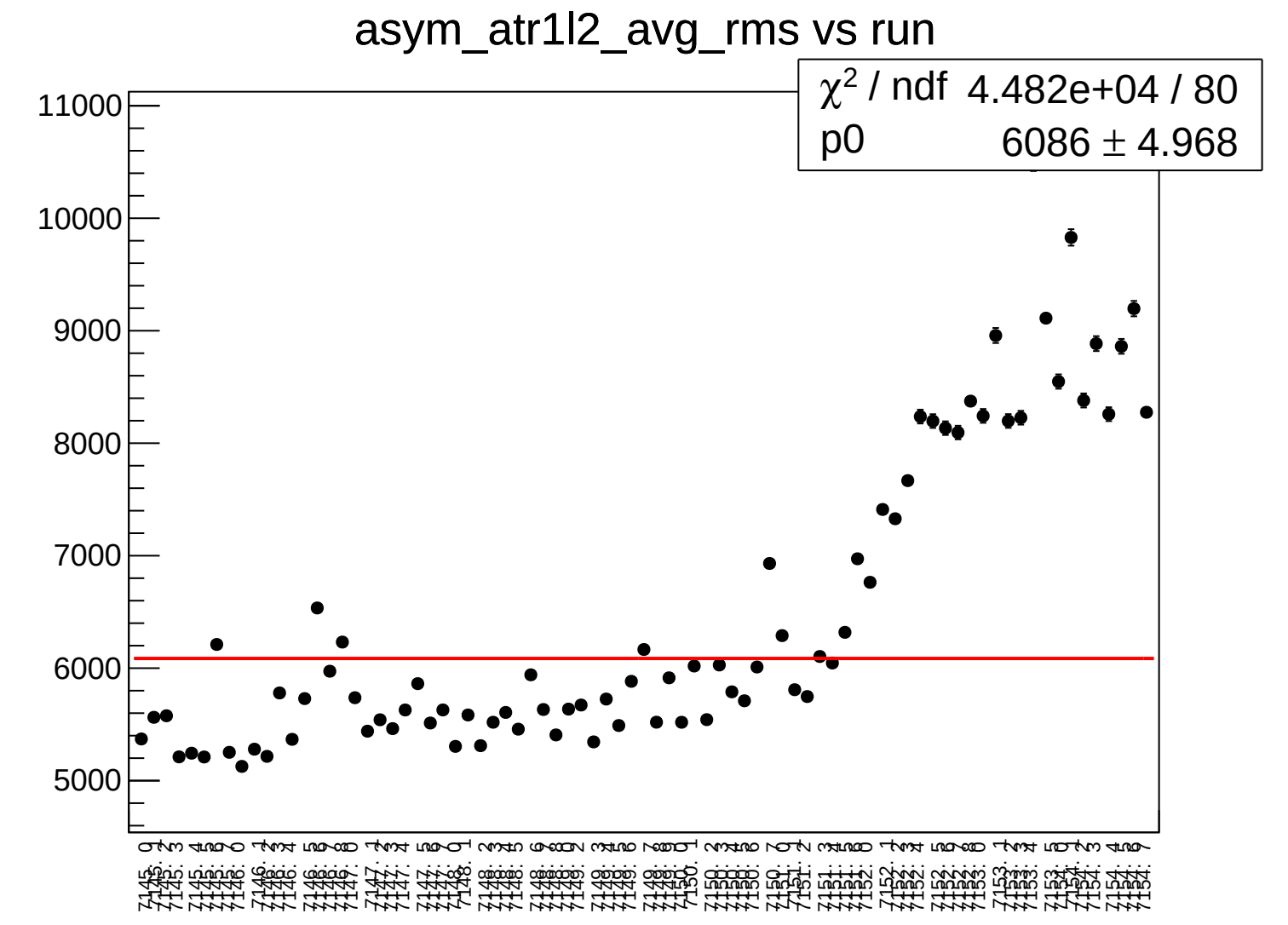

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 60.39 / 80
p0 −1498 ± 6611
pull
Entries 81
Mean 193.3
Std Dev 132

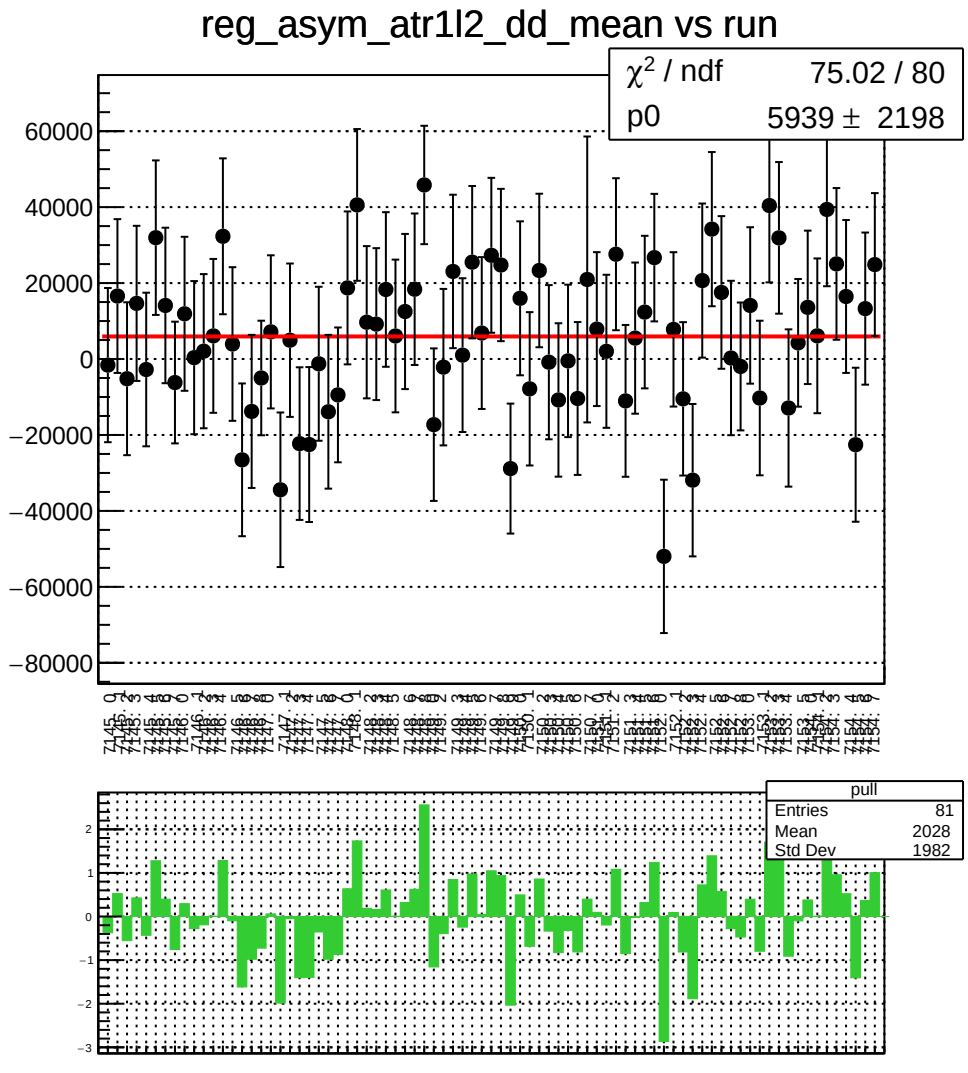

pull1D
Entries 81
Mean 0.01606
Std Dev 0.8633

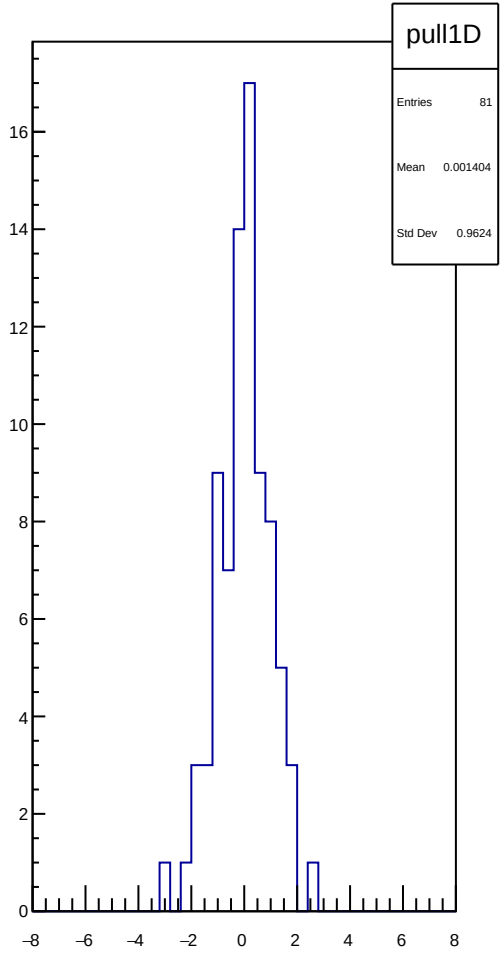

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 5.185e+04 / 80
p0 5713 ± 4.675
10000
9000
8000
7000
6000
5000

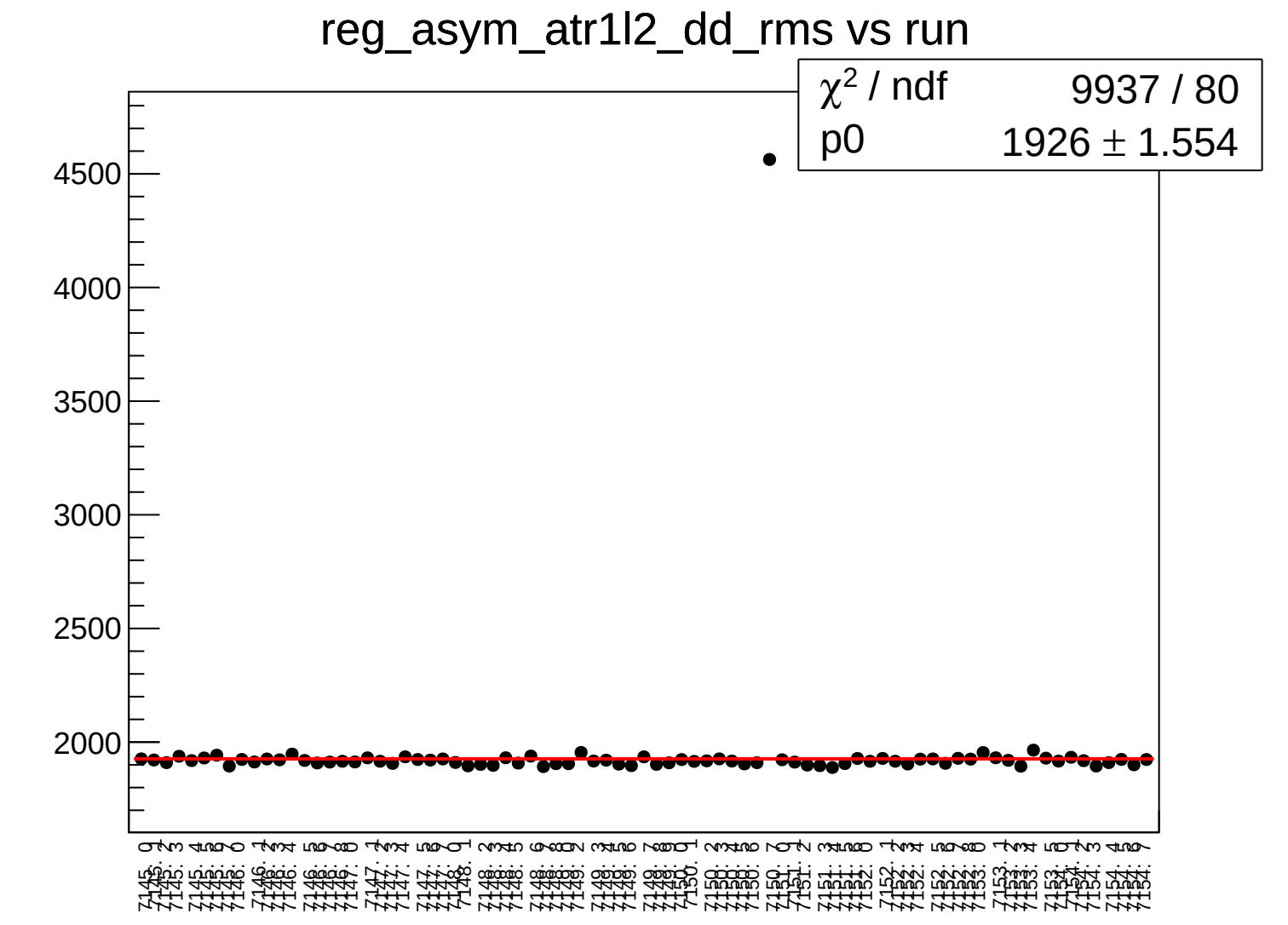

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 58.27 / 80
p0 1413 ± 7026
200
100
0
−100
−200
pull
Entries 81
Mean 386.4
Std Dev 326.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

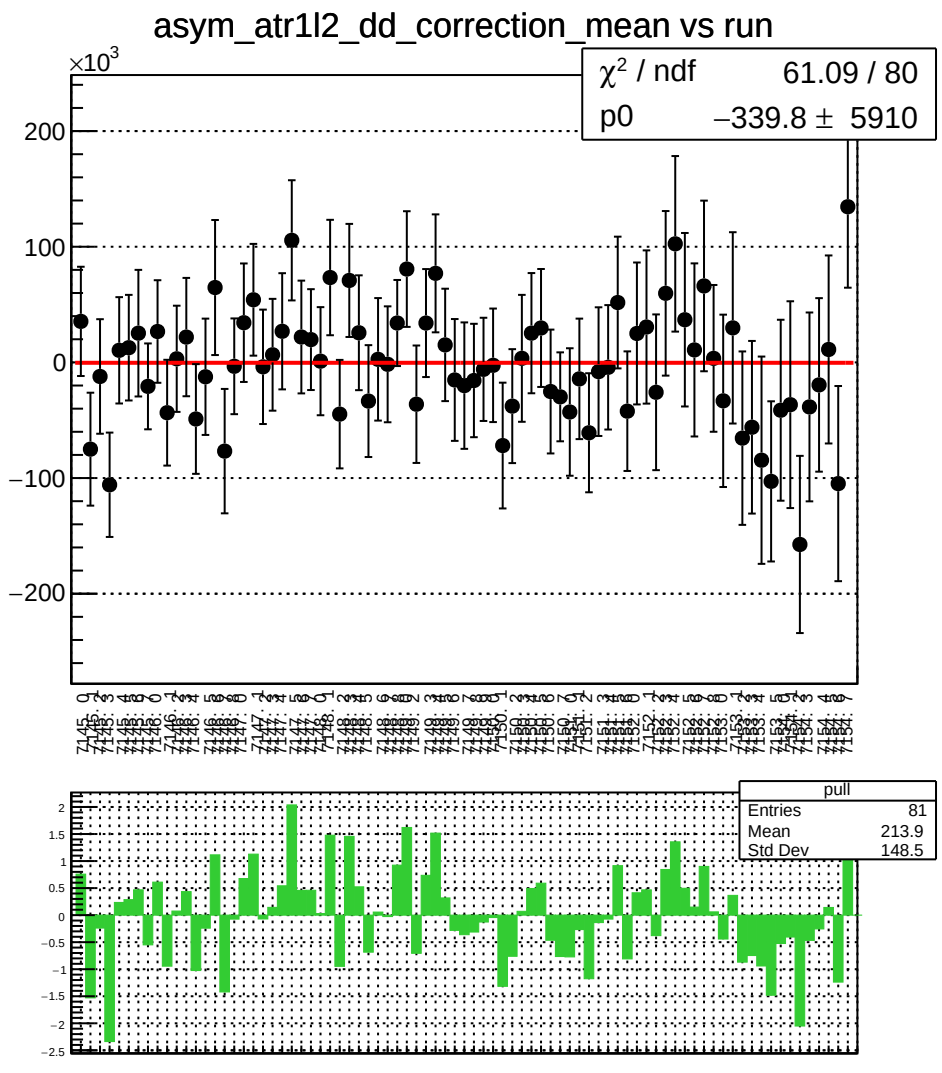

pull1D
Entries 81
Mean −0.005514
Std Dev 0.8482
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

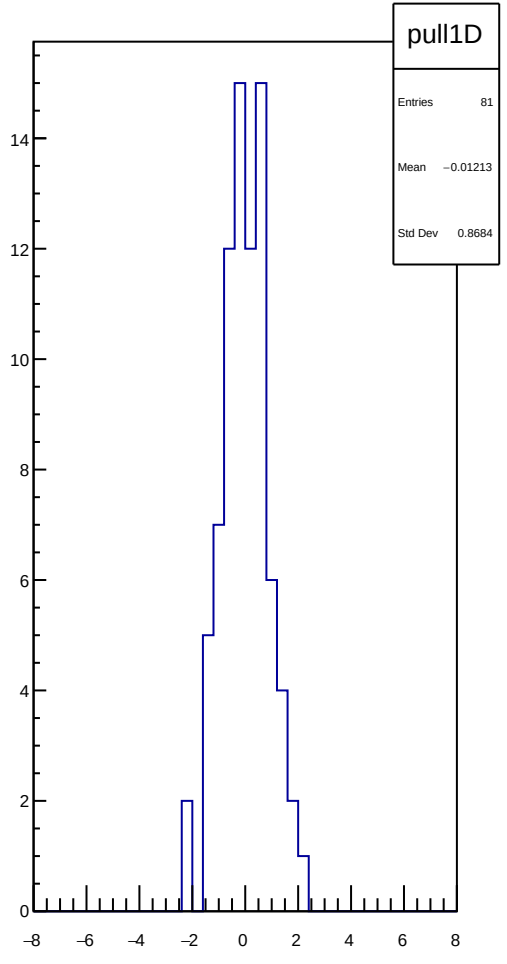

asym_atr1l2_avg_rms vs run
χ² / ndf 4.482e+04 / 80
p0 6086 ± 4.968
11000
10000
9000
8000
7000
6000
5000

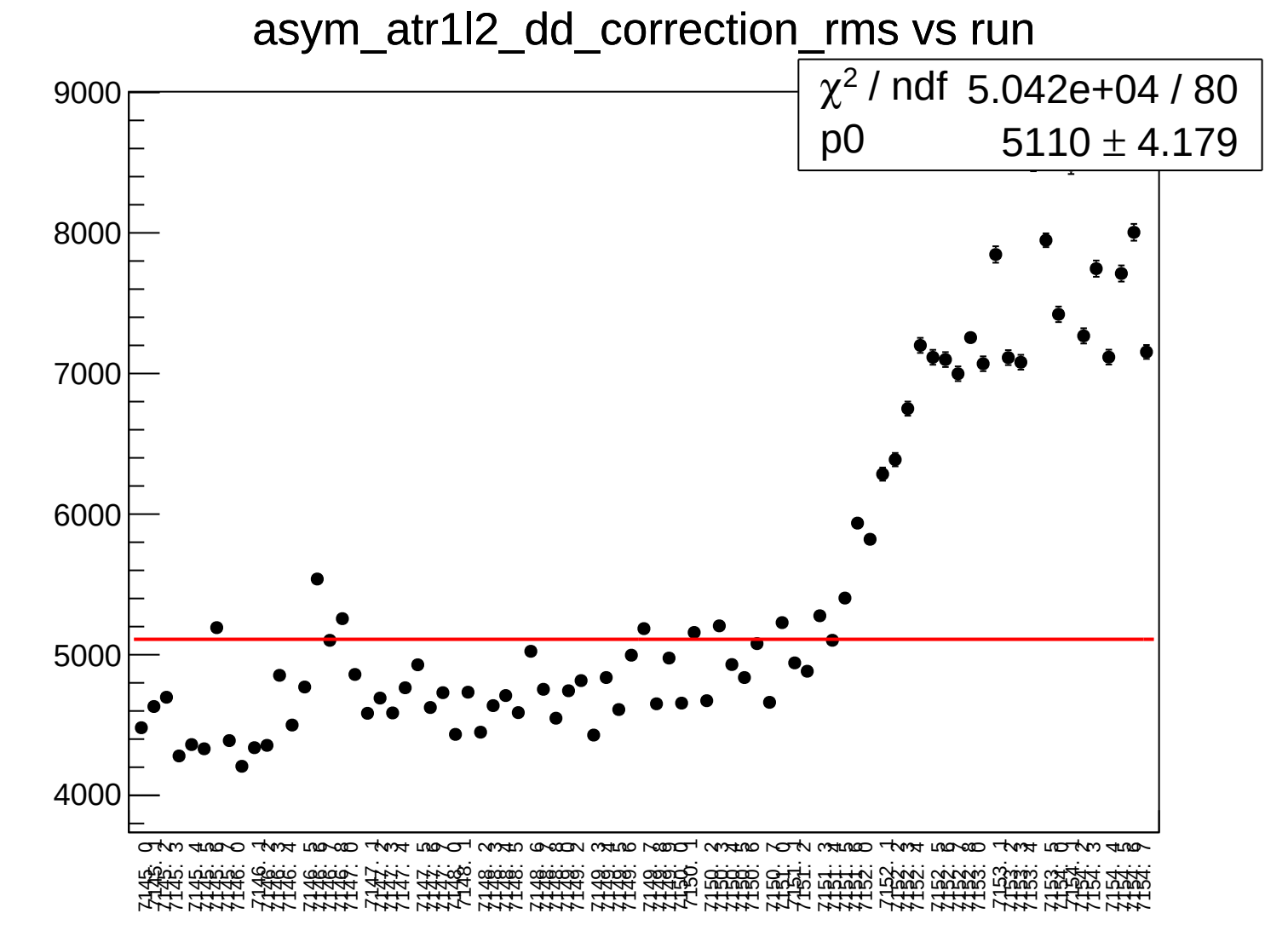

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 75.02 / 80
p0 5939 ± 2198
pull
Entries 81
Mean 2028
Std Dev 1982

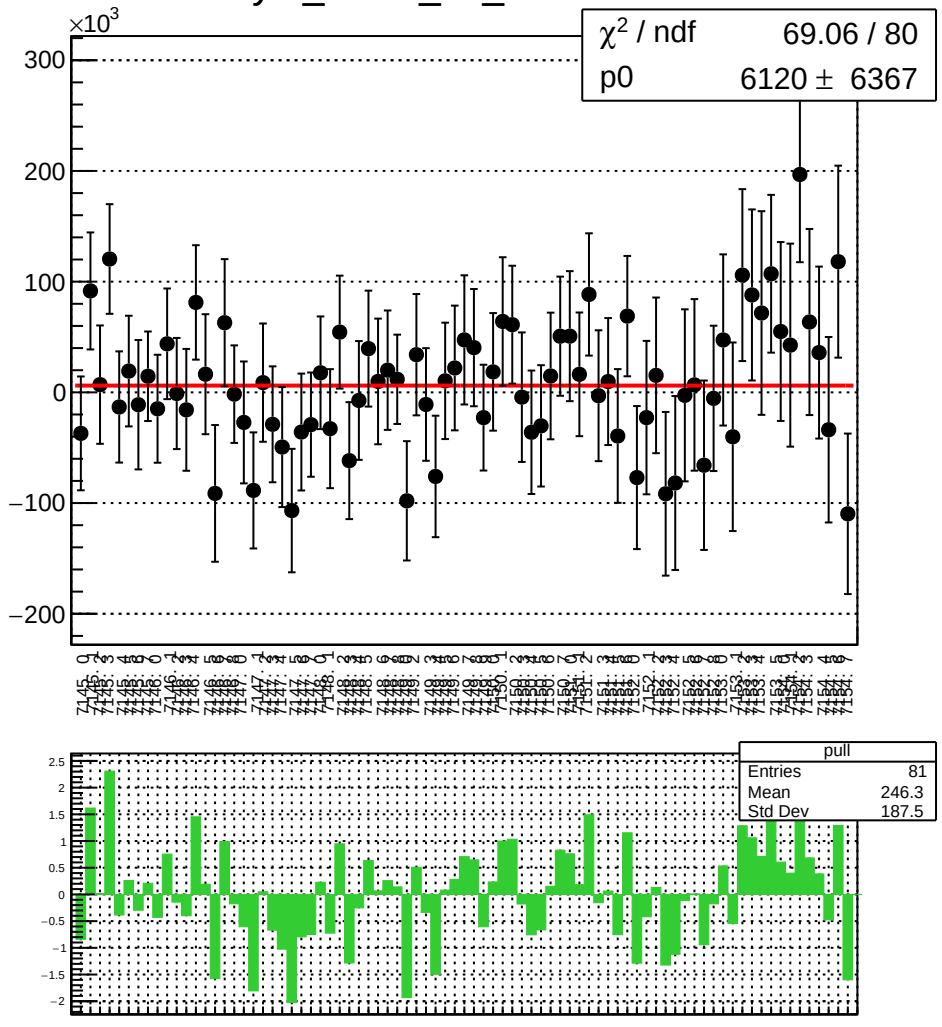

pull1D
Entries 81
Mean 0.001404
Std Dev 0.9624

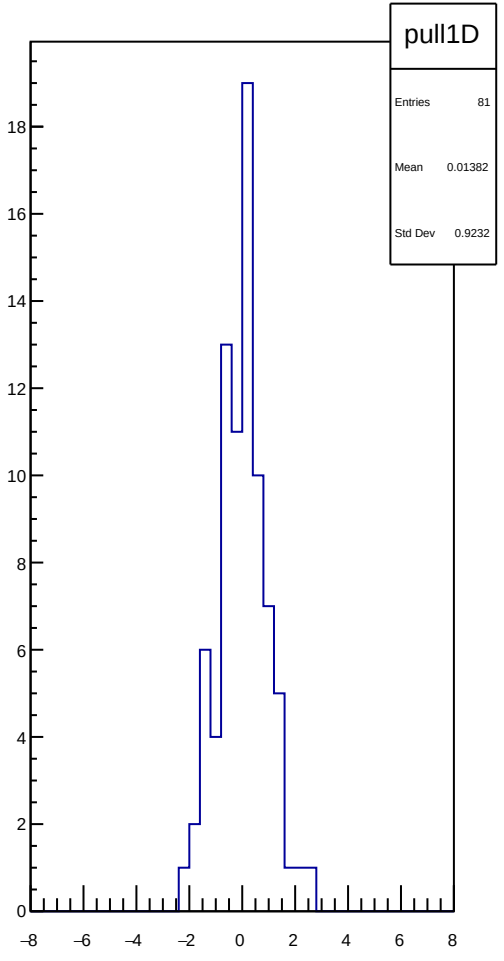

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 9937 / 80
p0 1926 ± 1.554
4500
4000
3500
3000
2500
2000

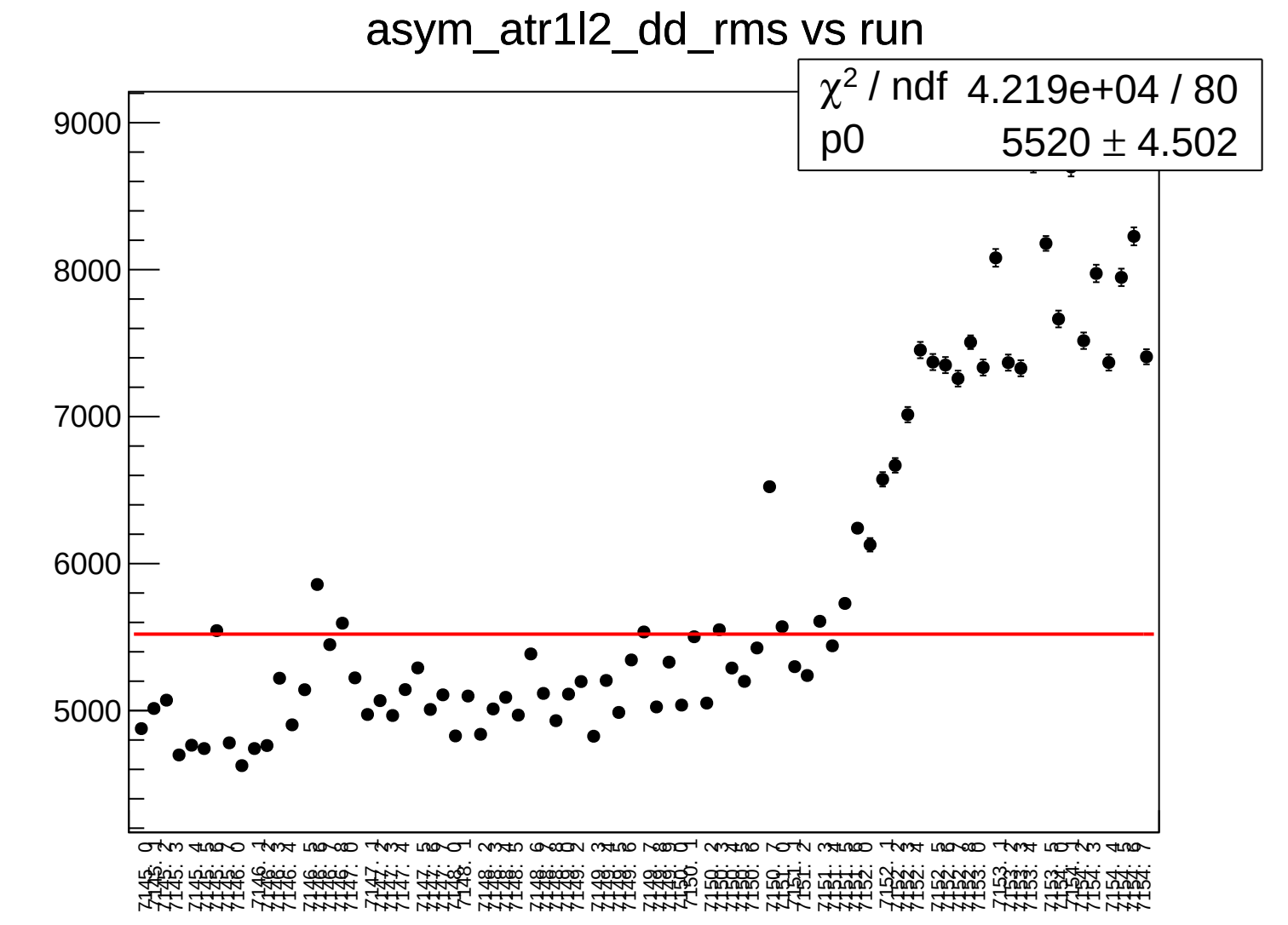

asym_atr1l2_dd_correction_mean vs run
×10^3
χ² / ndf 61.09 / 80
p0 −339.8 ± 5910
200
100
0
−100
−200
pull
Entries 81
Mean 213.9
Std Dev 148.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

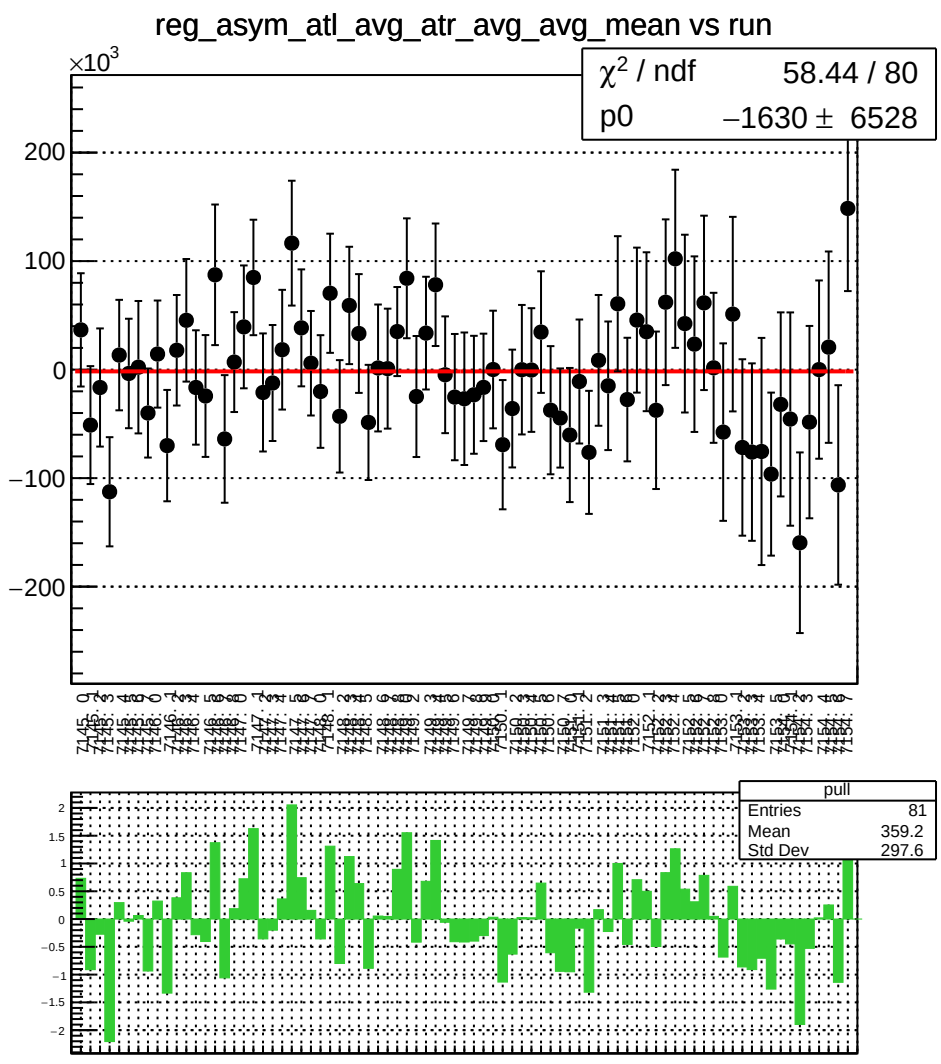

pull1D
Entries 81
Mean −0.01213
Std Dev 0.8684
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

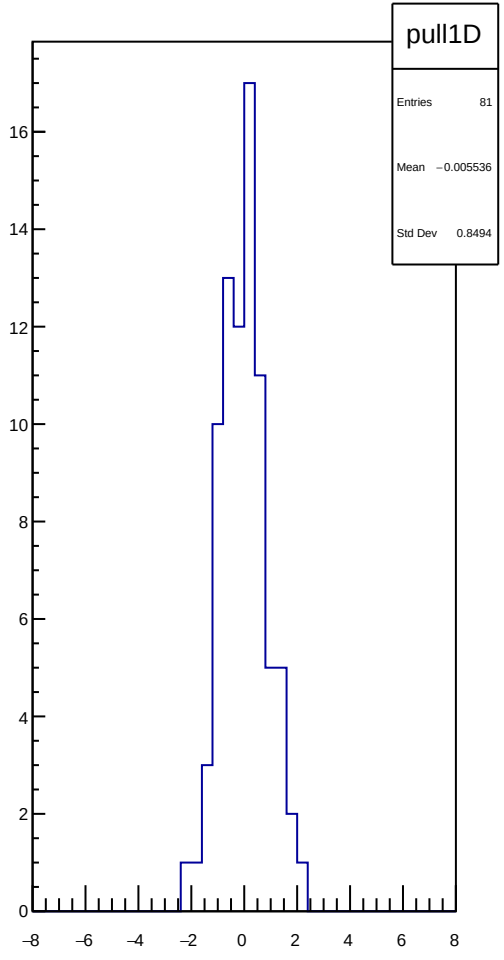

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 5.042e+04 / 80
p0 5110 ± 4.179
9000
8000
7000
6000
5000
4000

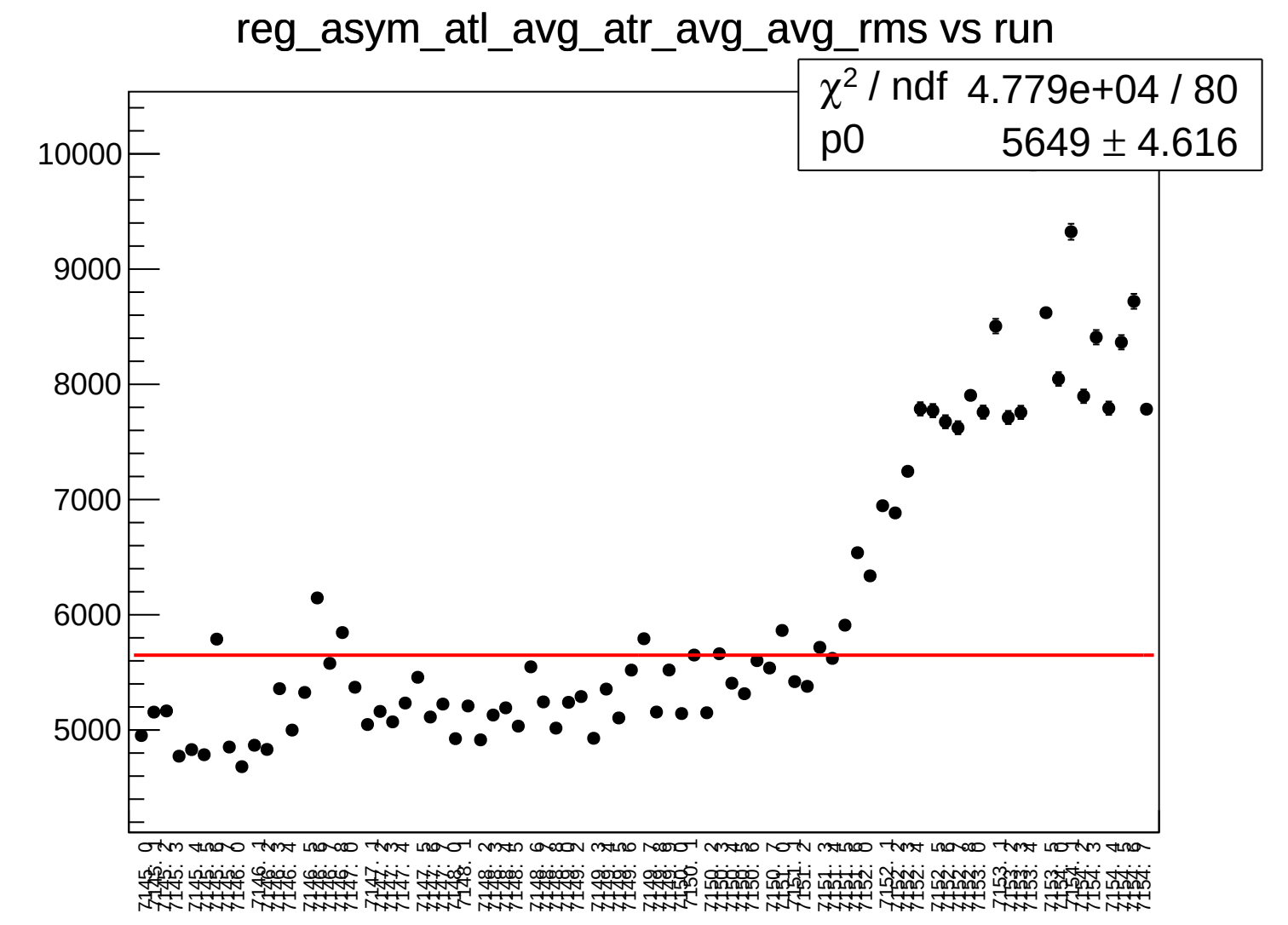

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 69.06 / 80
p0 6120 ± 6367
pull
Entries 81
Mean 246.3
Std Dev 187.5

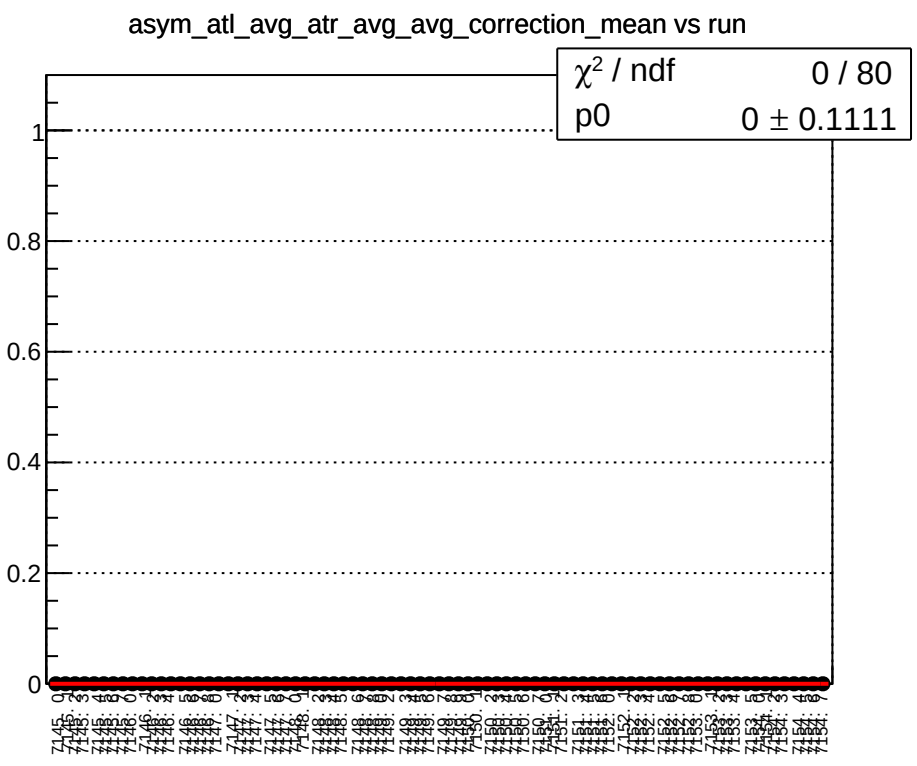

pull1D
Entries 81
Mean 0.01382
Std Dev 0.9232

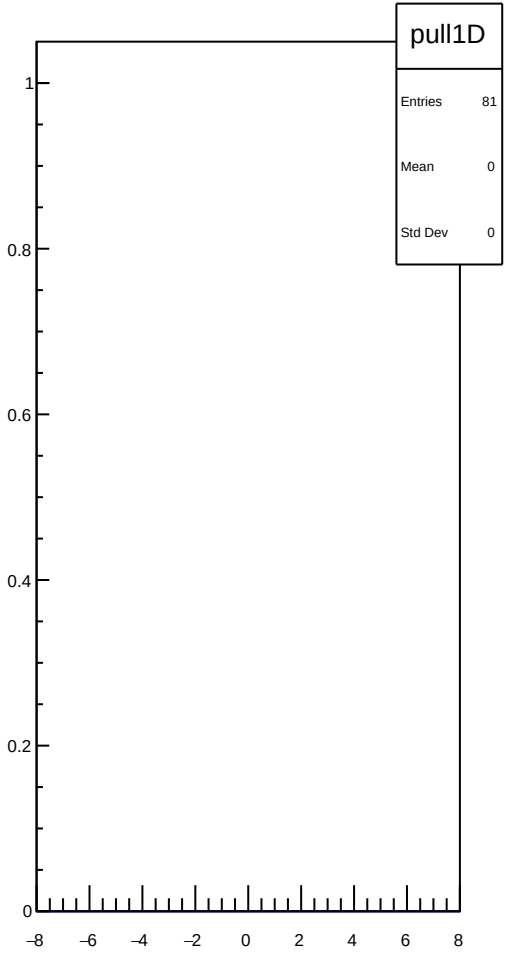

asym_atr1l2_dd_rms vs run
χ^2 / ndf 4.219e+04 / 80
p0 5520 ± 4.502
9000
8000
7000
6000
5000

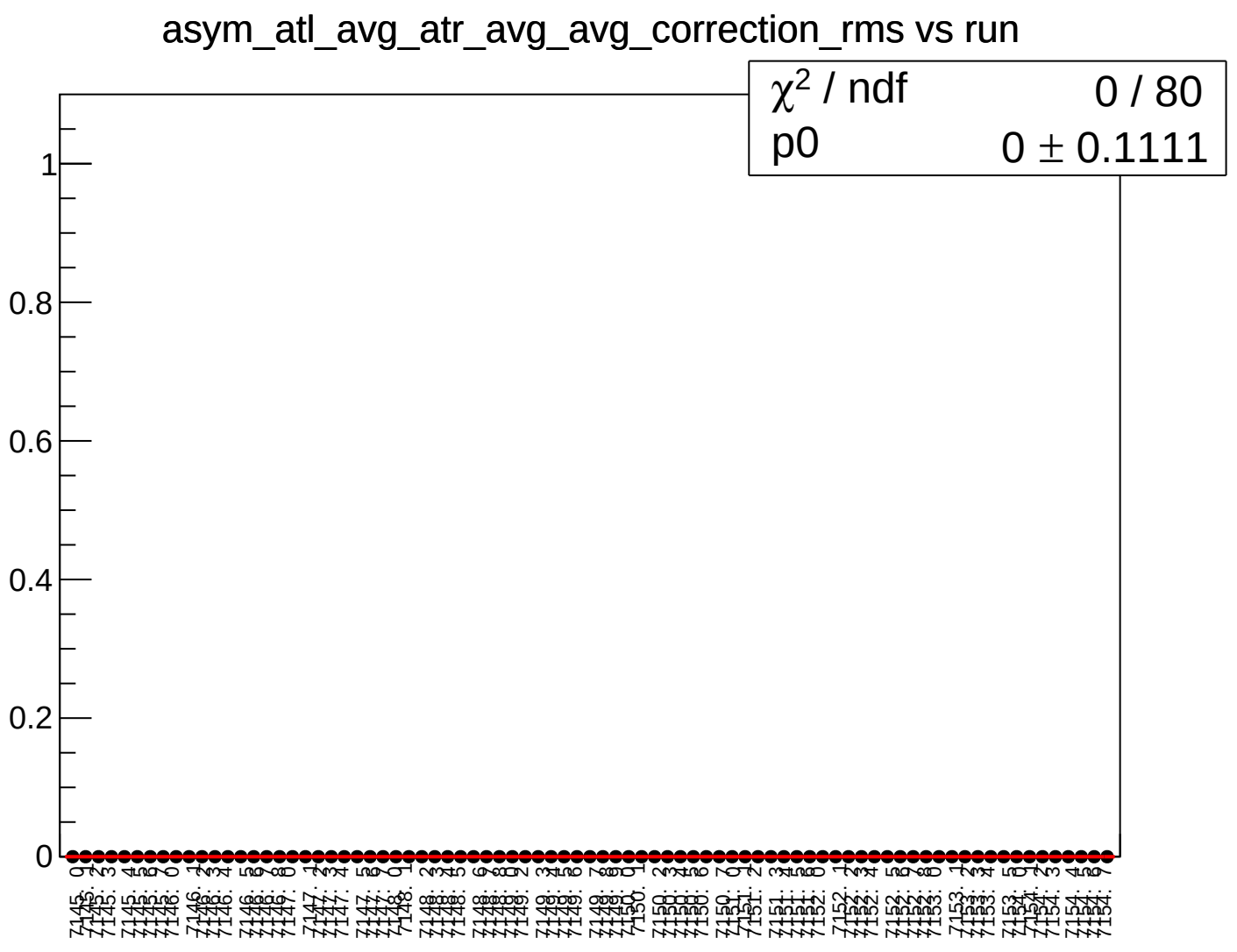

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 58.44 / 80
p0 −1630 ± 6528
200
100
0
−100
−200
pull
Entries 81
Mean 359.2
Std Dev 297.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

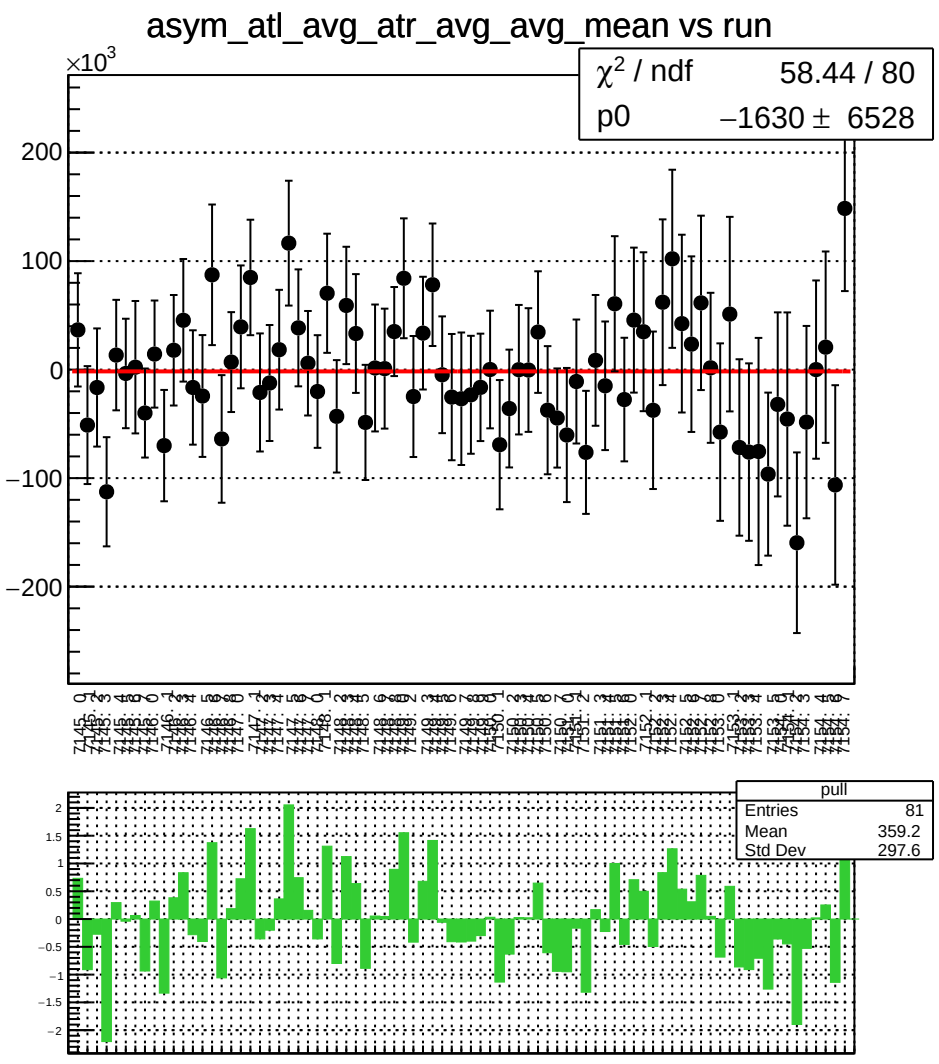

pull1D
Entries 81
Mean −0.005536
Std Dev 0.8494
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

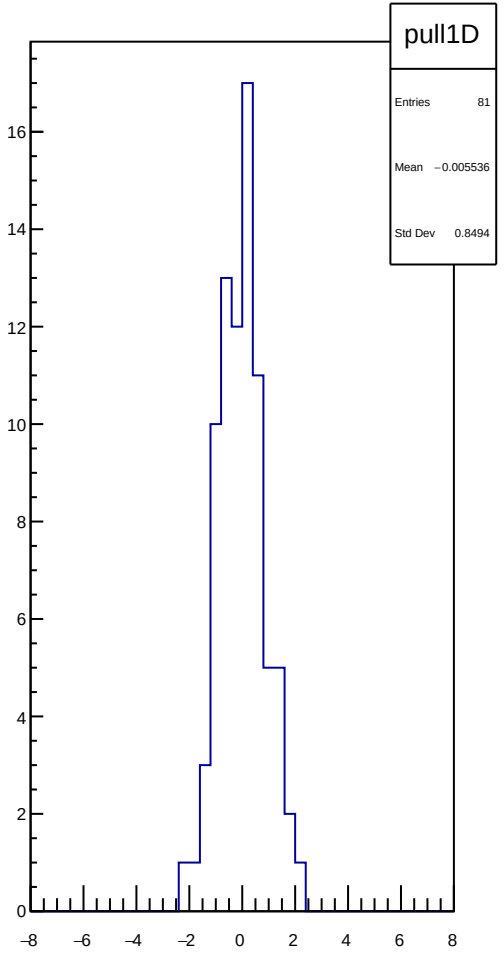

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4.779e+04 / 80
p0 5649 ± 4.616
10000
9000
8000
7000
6000
5000

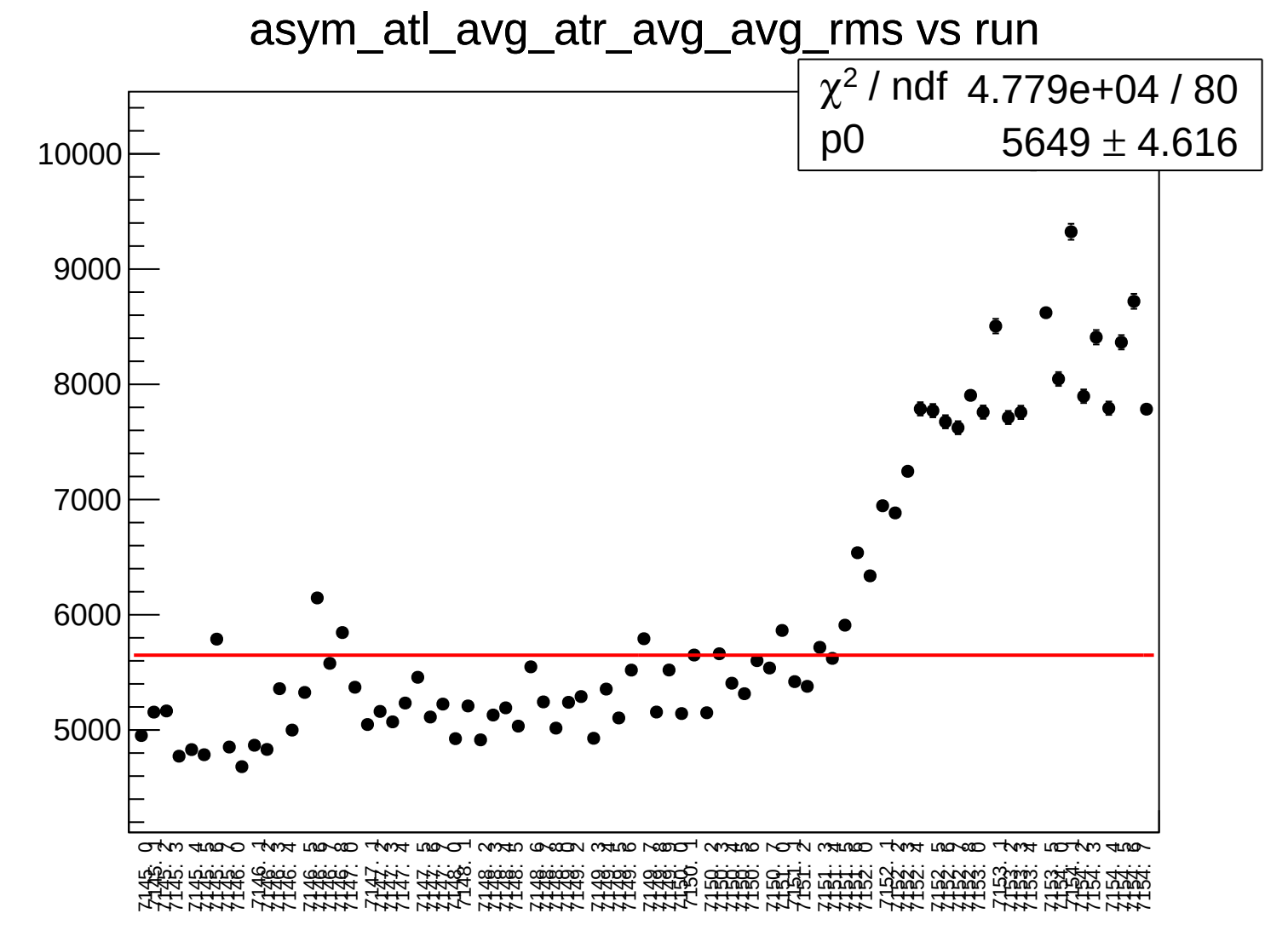

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

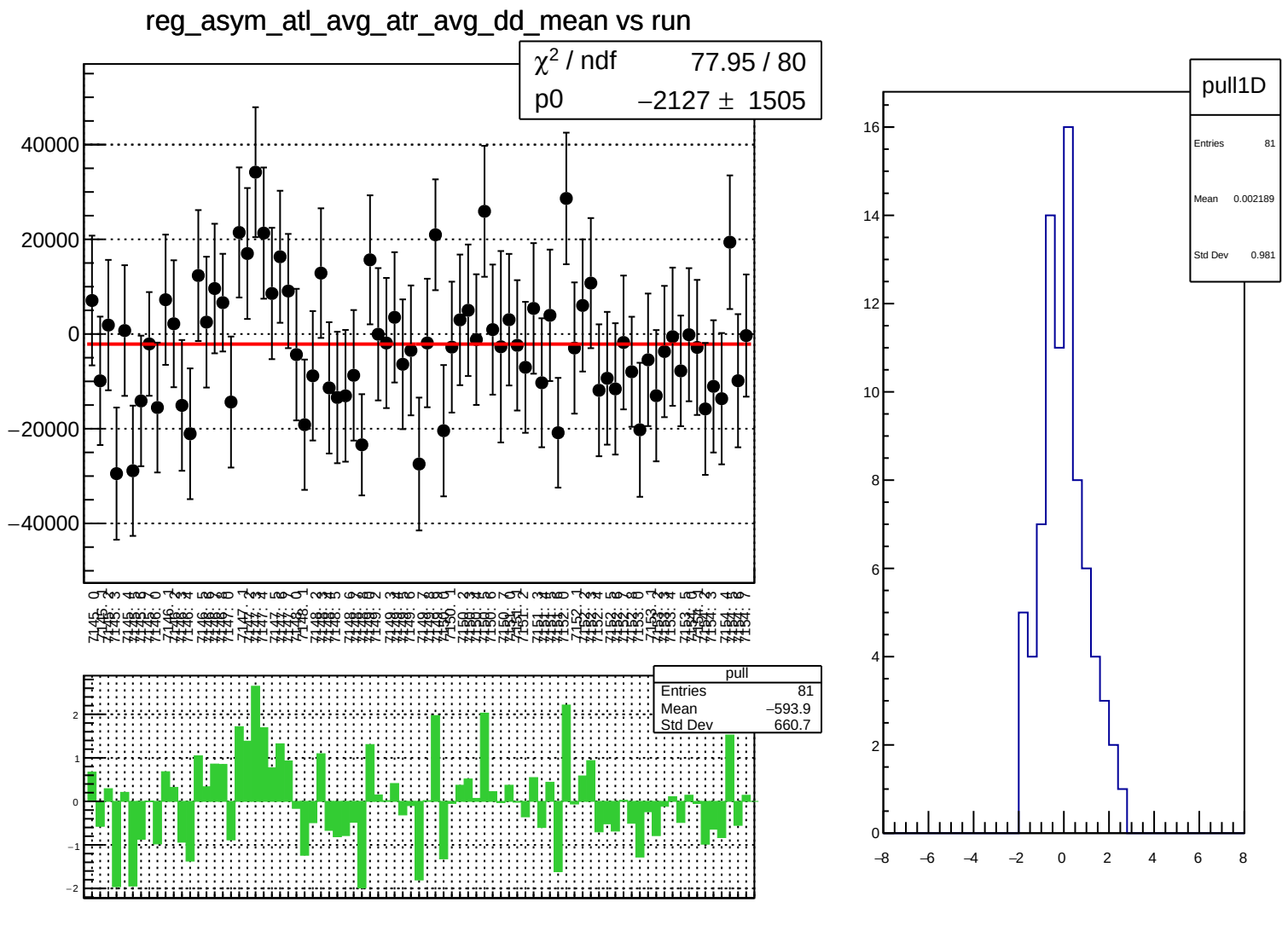

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

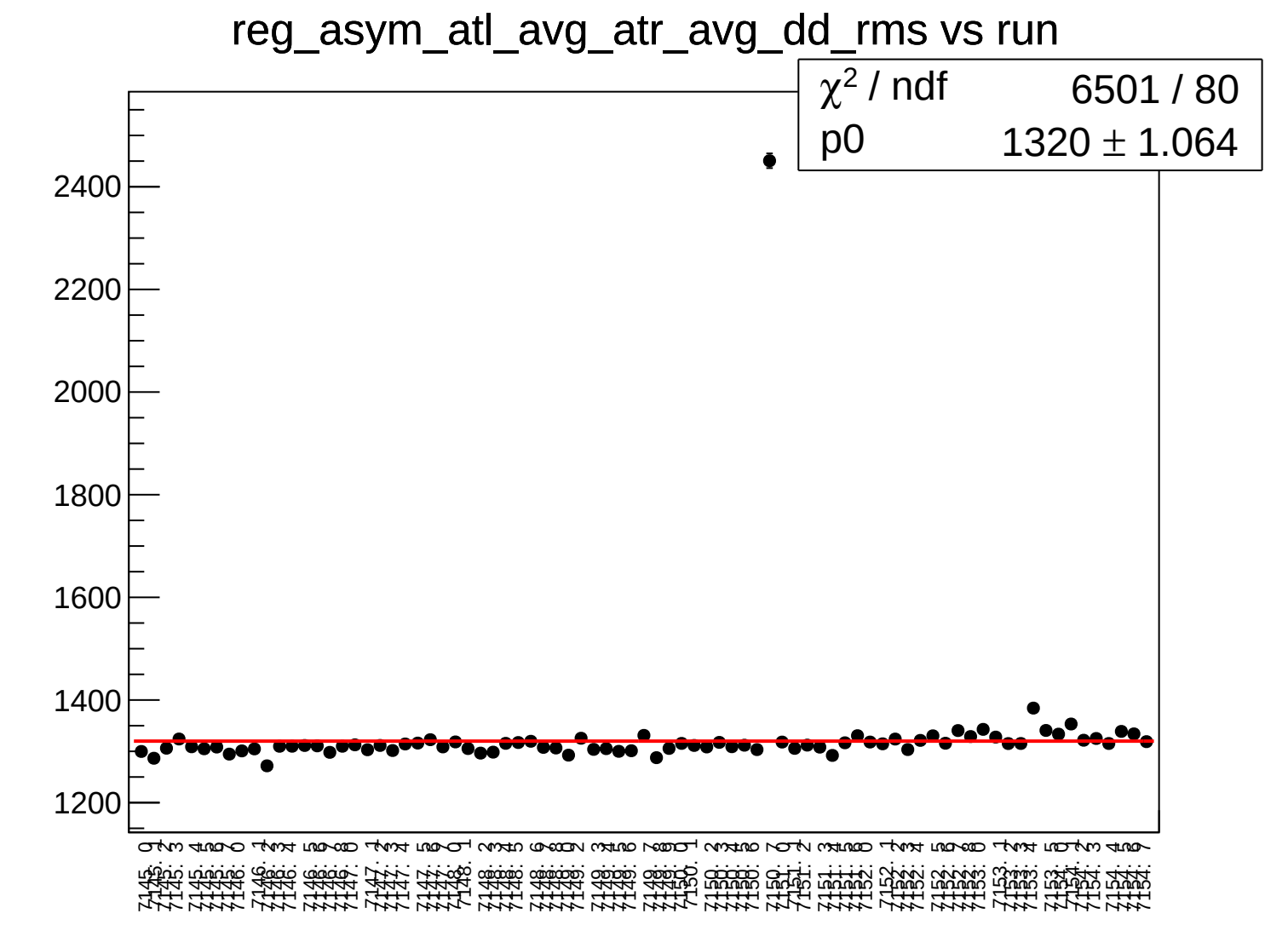

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

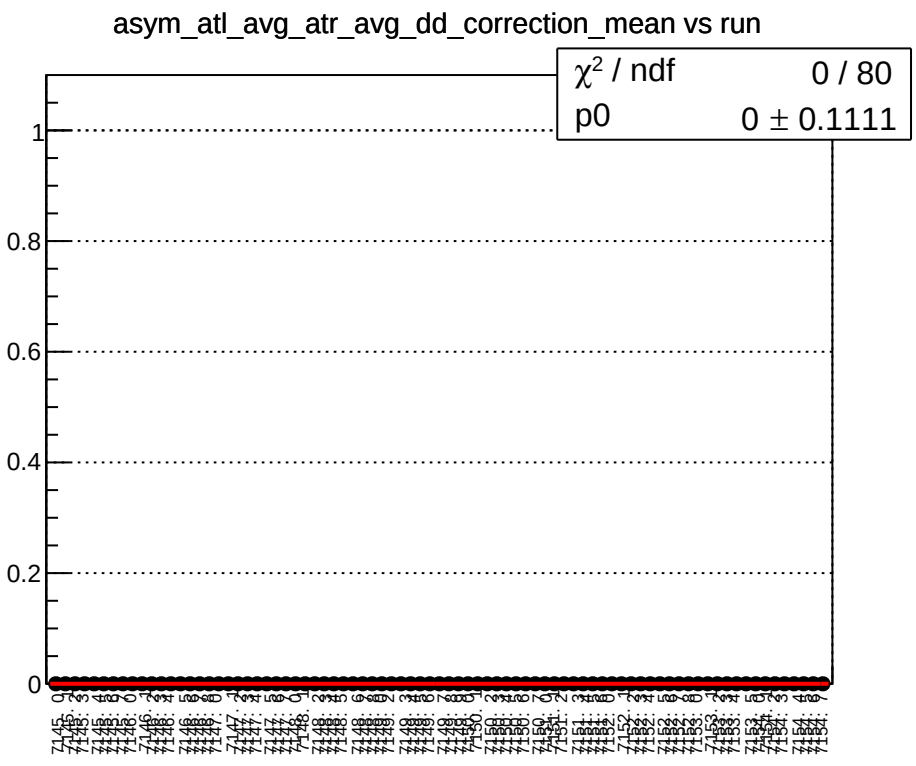

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 58.44 / 80
p0 −1630 ± 6528
200
100
0
−100
−200
pull
Entries 81
Mean 359.2
Std Dev 297.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

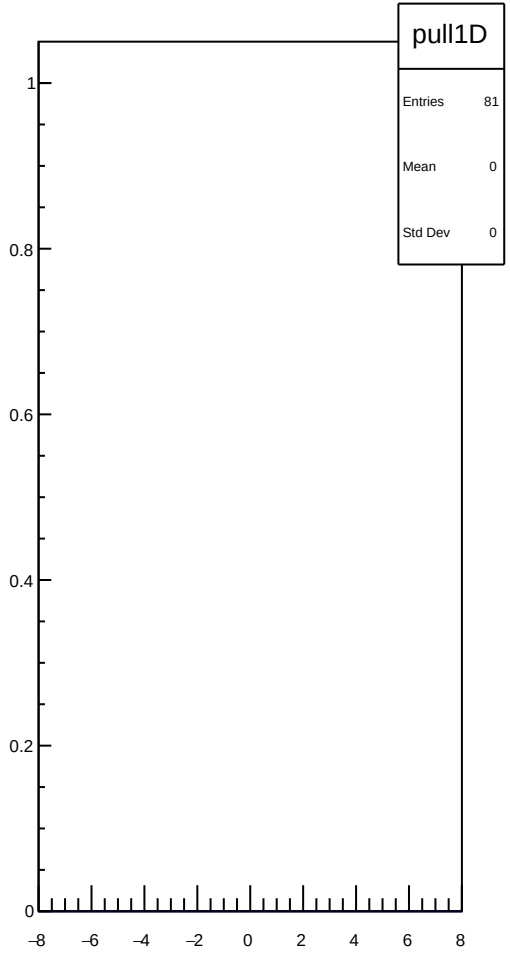

pull1D
Entries 81
Mean −0.005536
Std Dev 0.8494
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

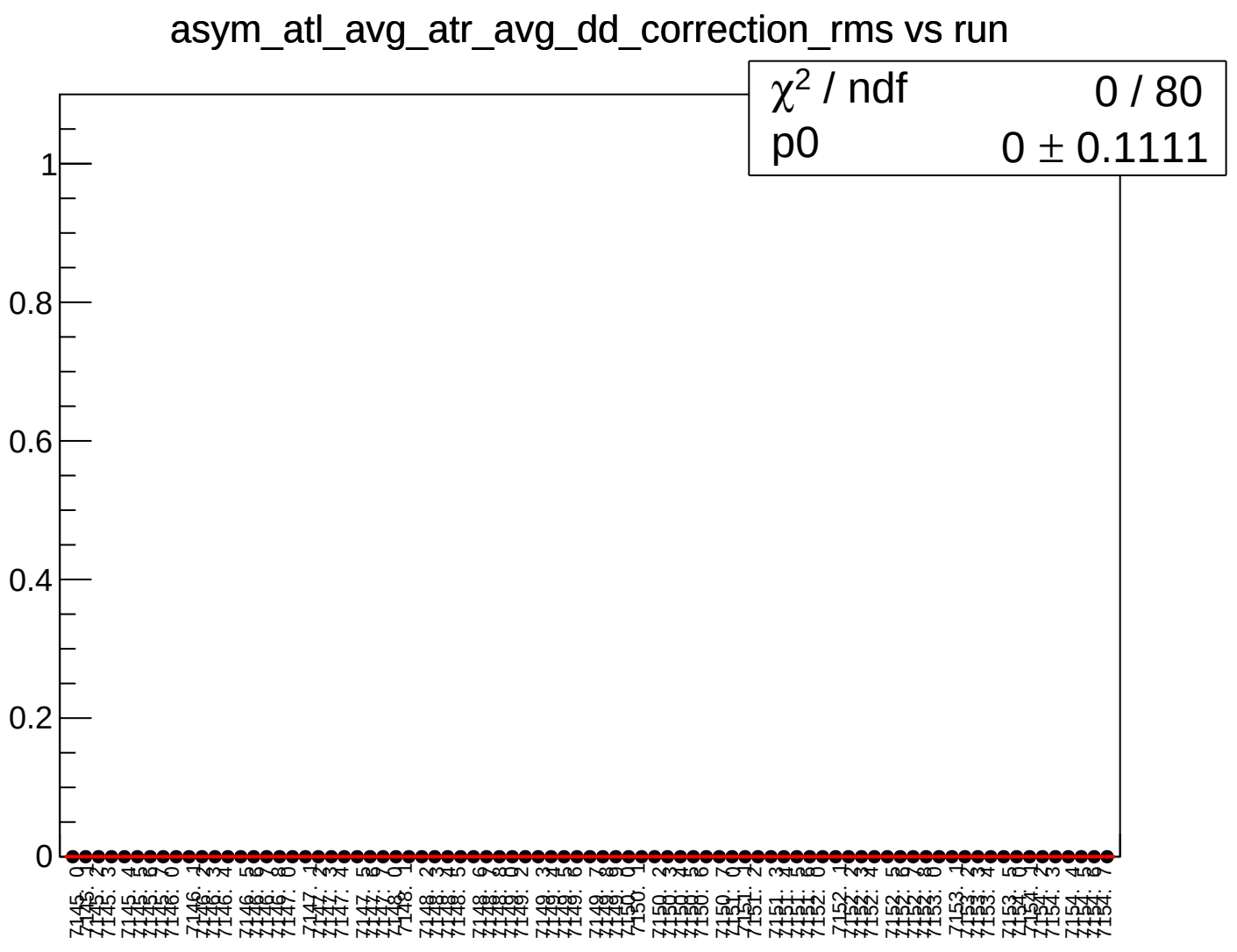

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4.779e+04 / 80
p0 5649 ± 4.616
10000
9000
8000
7000
6000
5000

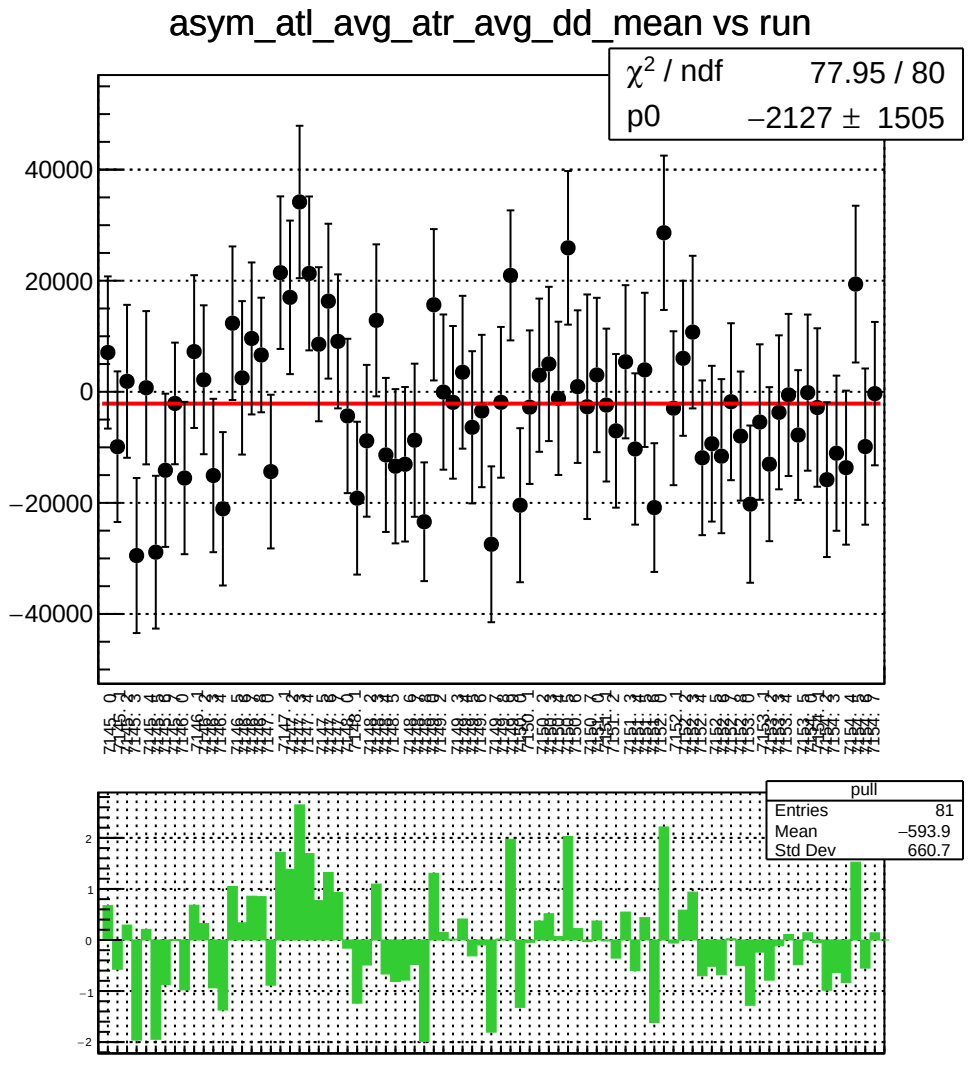

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 77.95 / 80
p0 −2127 ± 1505
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −593.9
Std Dev 660.7
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.002189
Std Dev 0.981
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

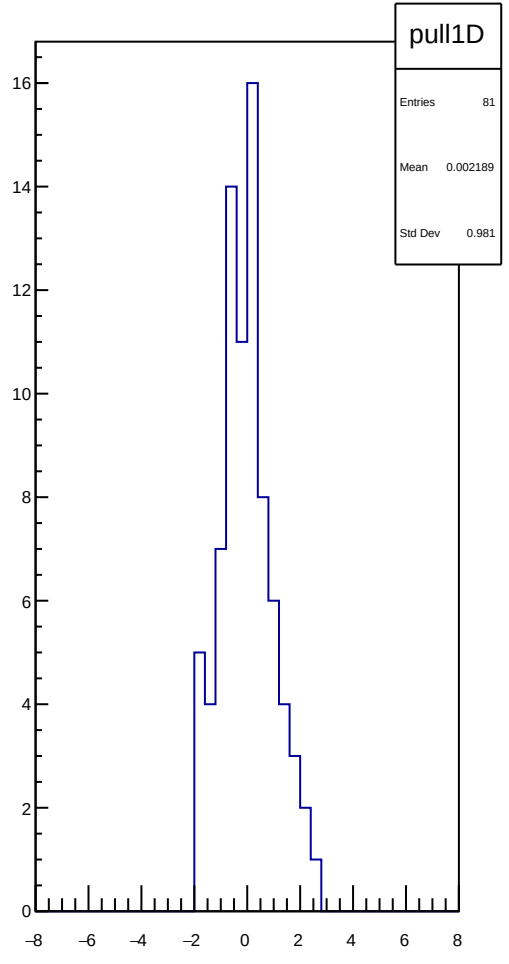

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ^2 / ndf 6501 / 80
p0 1320 ± 1.064
2400
2200
2000
1800
1600
1400
1200

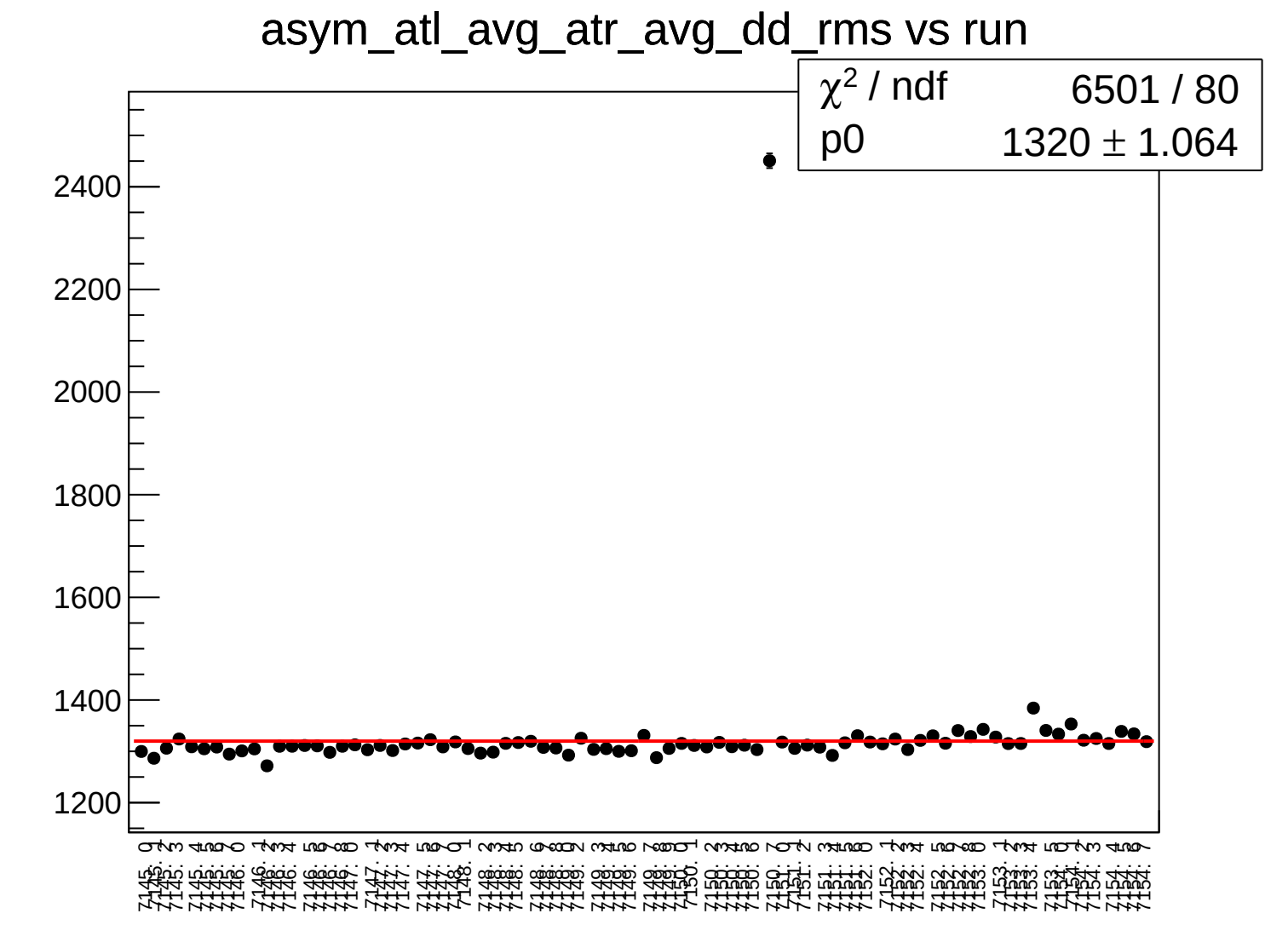

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

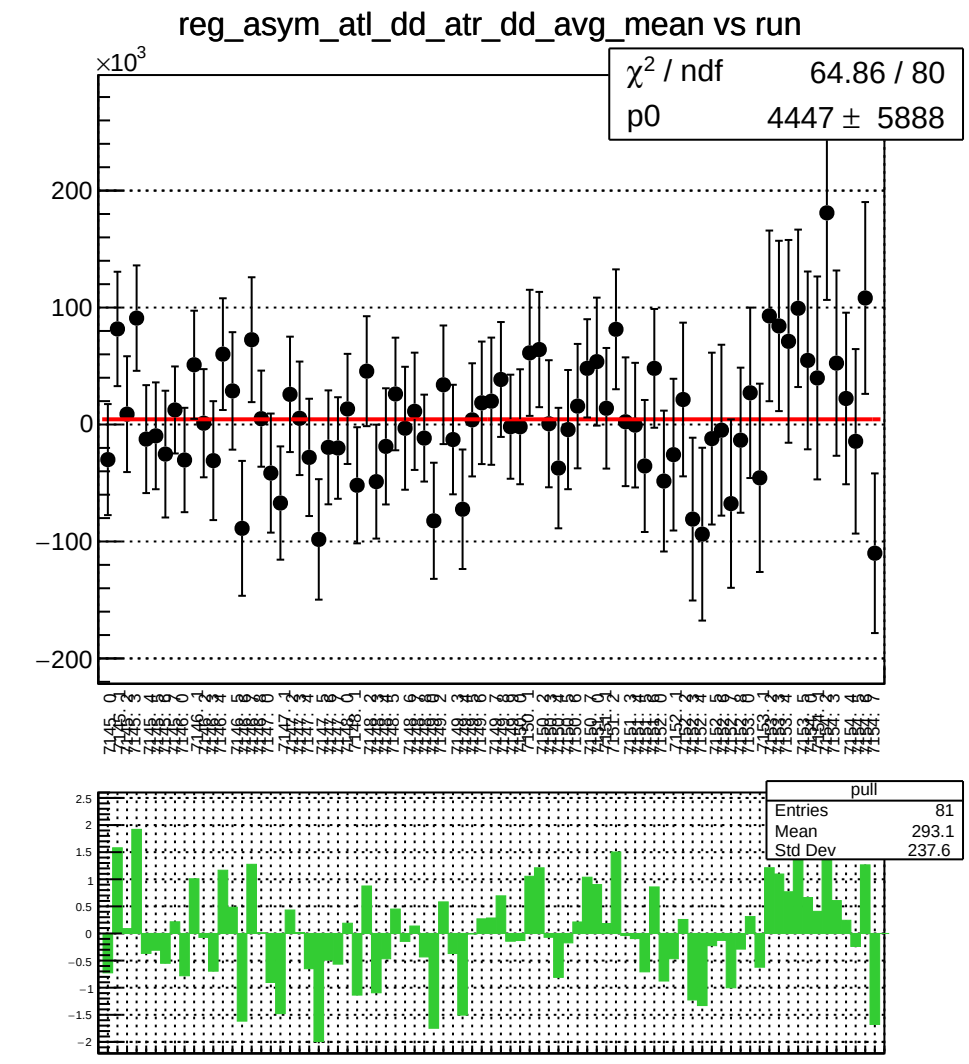

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

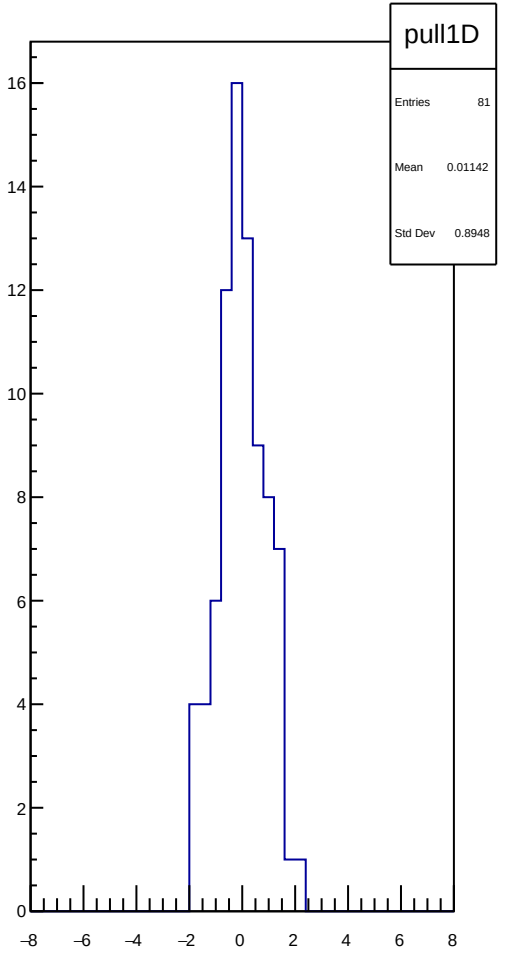

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

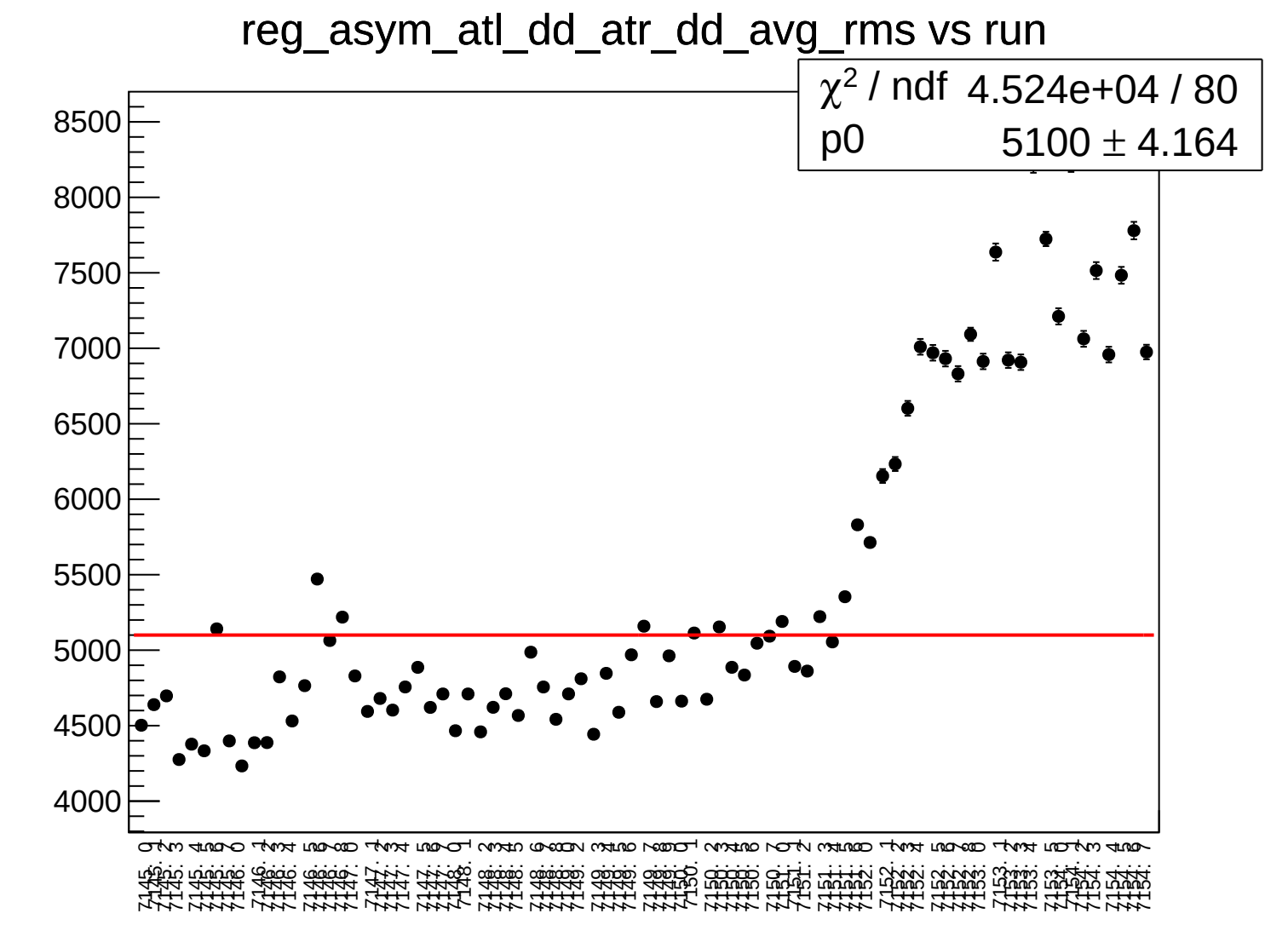

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 77.95 / 80
p0 −2127 ± 1505
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −593.9
Std Dev 660.7
2
1
0
−1
−2

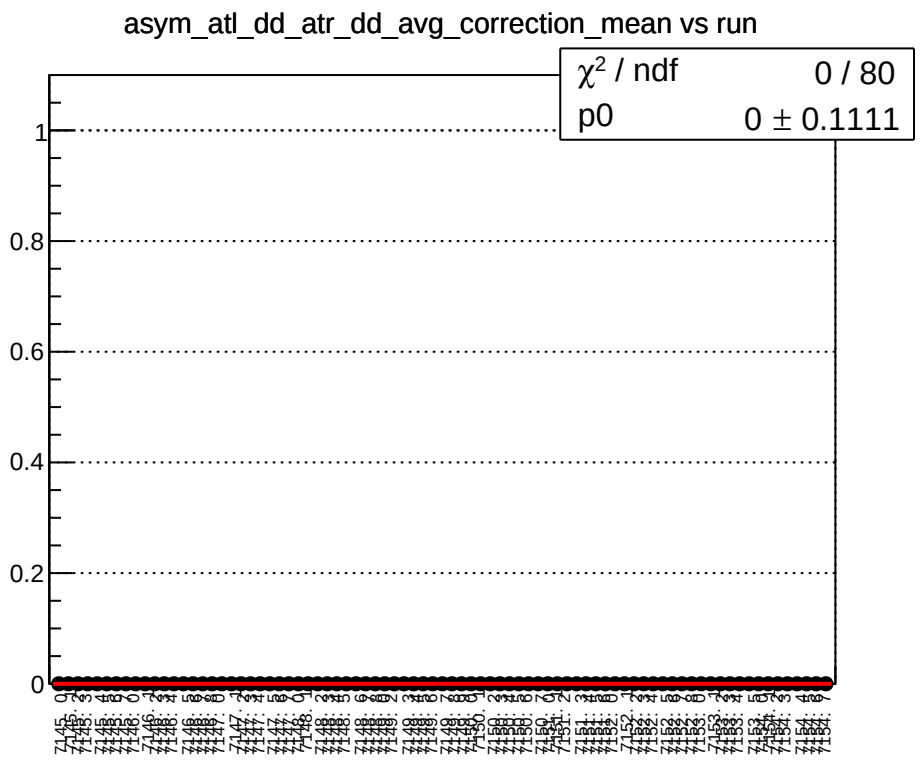

pull1D
Entries 81
Mean 0.002189
Std Dev 0.981
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

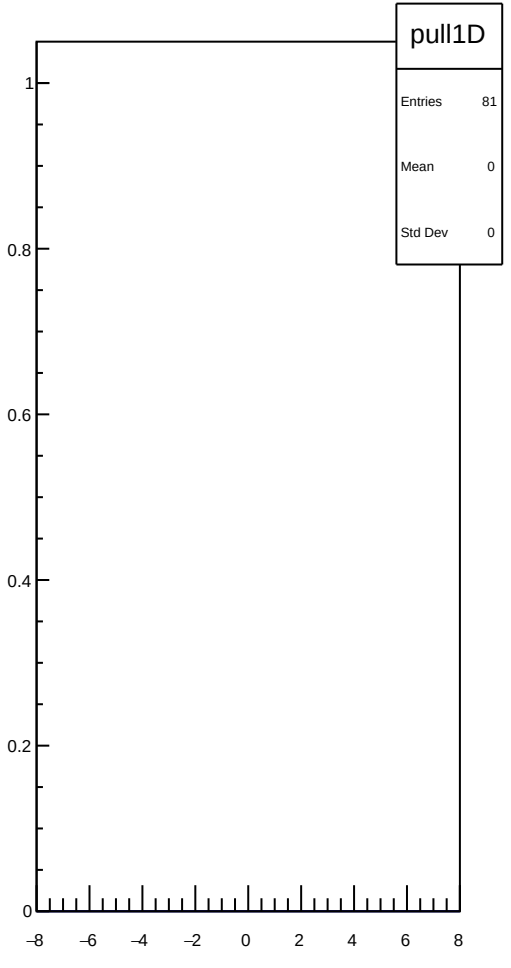

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 6501 / 80
p0 1320 ± 1.064
2400
2200
2000
1800
1600
1400
1200

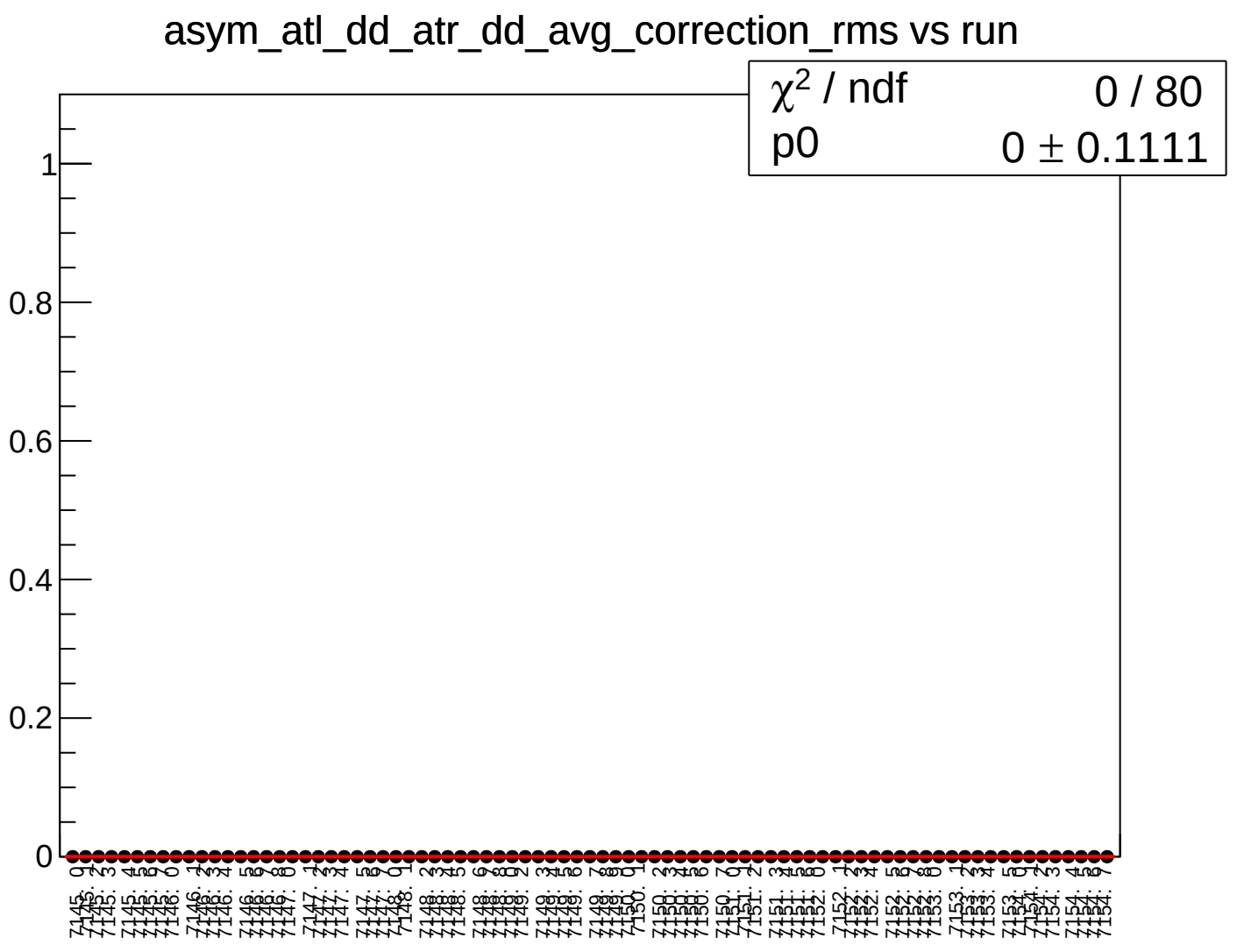

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 64.86 / 80
p0 4447 ± 5888
200
100
0
−100
−200
pull
Entries 81
Mean 293.1
Std Dev 237.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

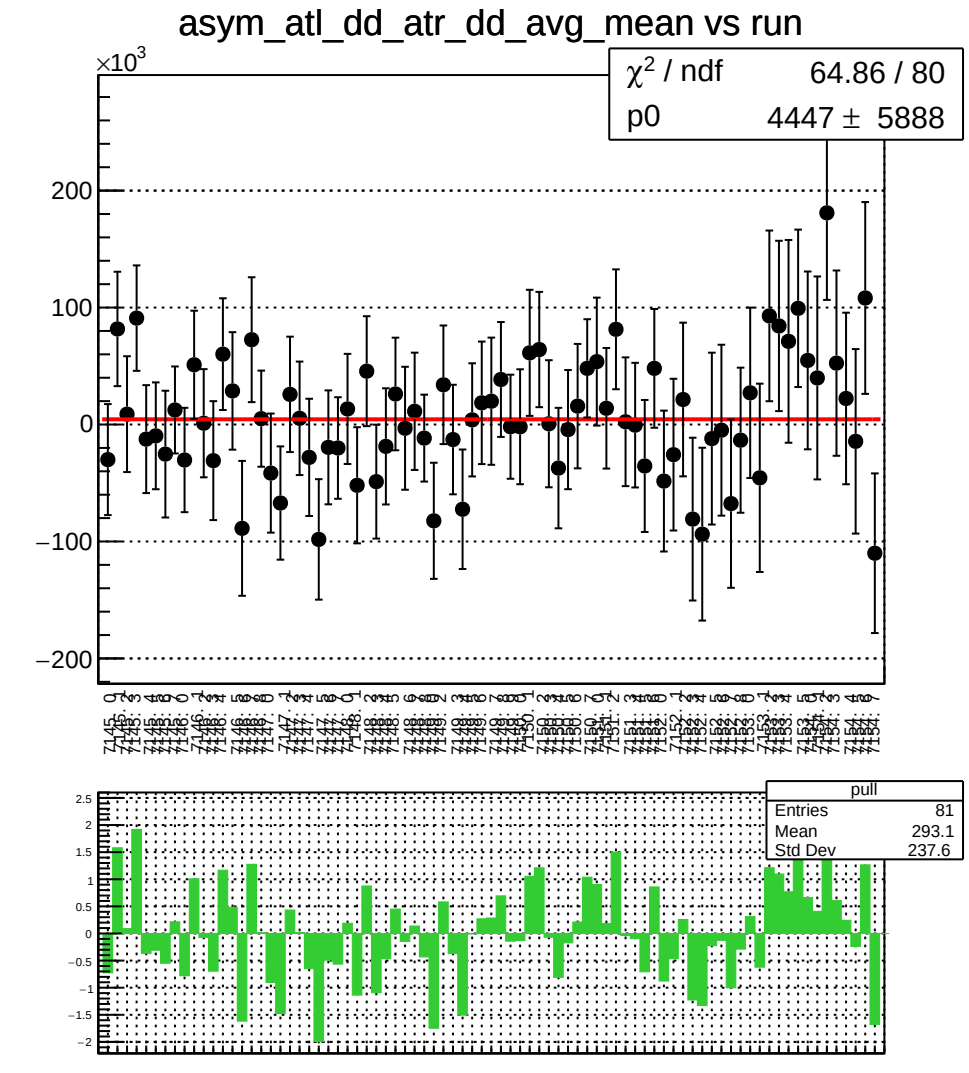

pull1D
Entries 81
Mean 0.01142
Std Dev 0.8948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

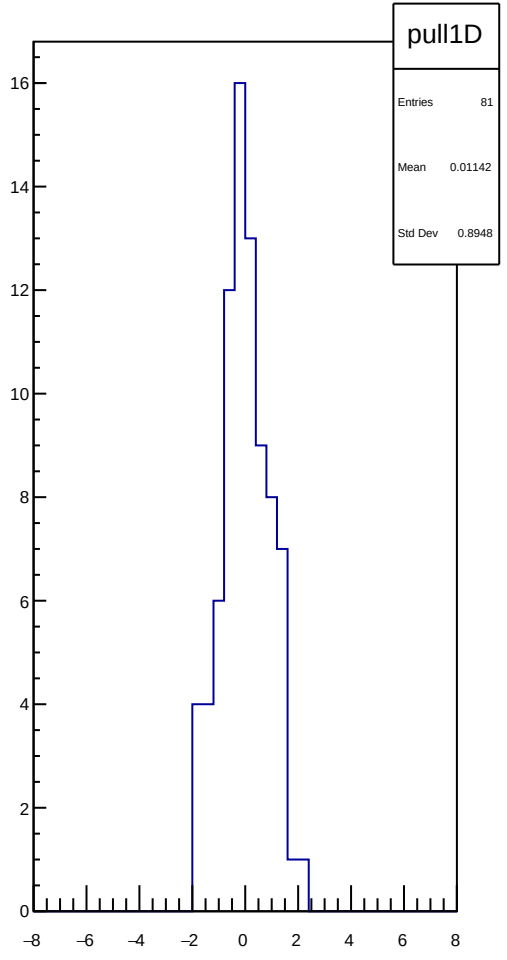

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4.524e+04 / 80
p0 5100 ± 4.164
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000

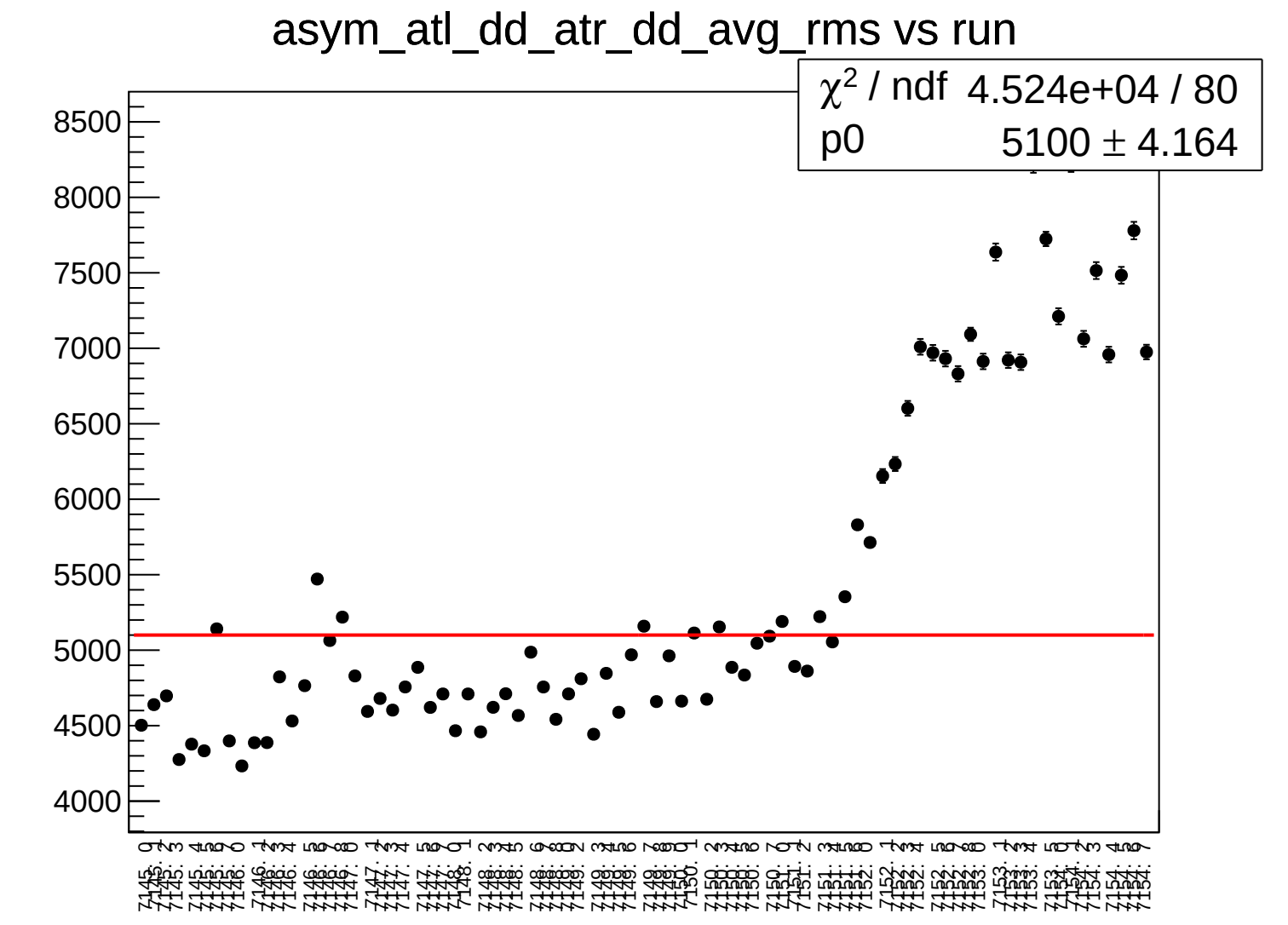

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

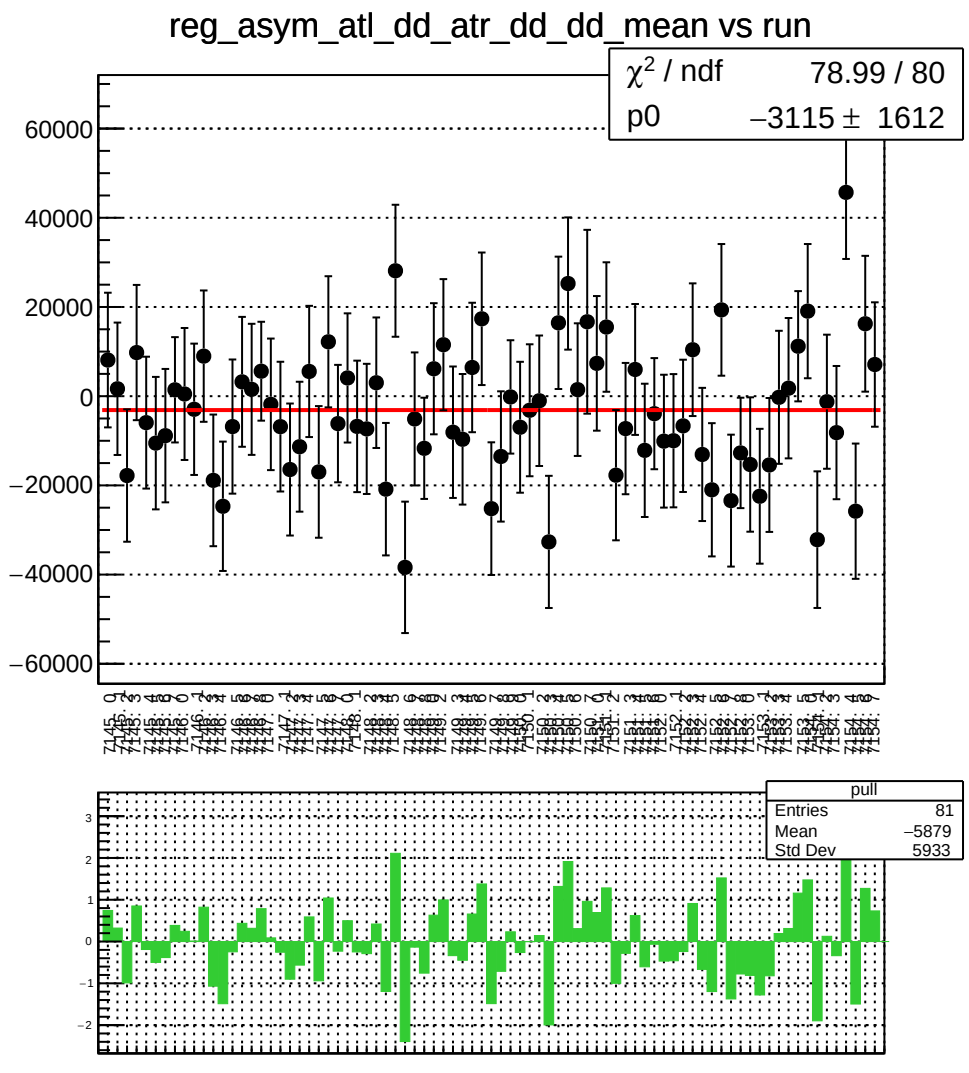

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

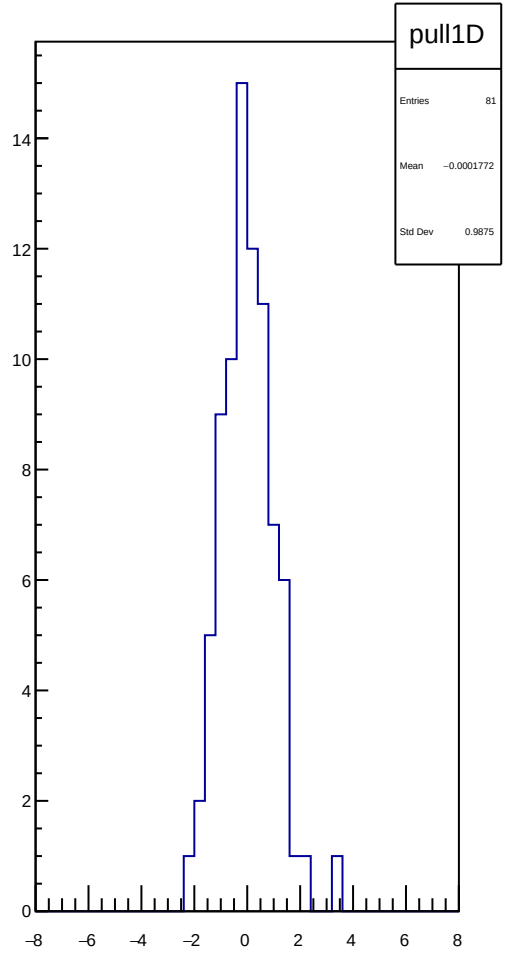

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

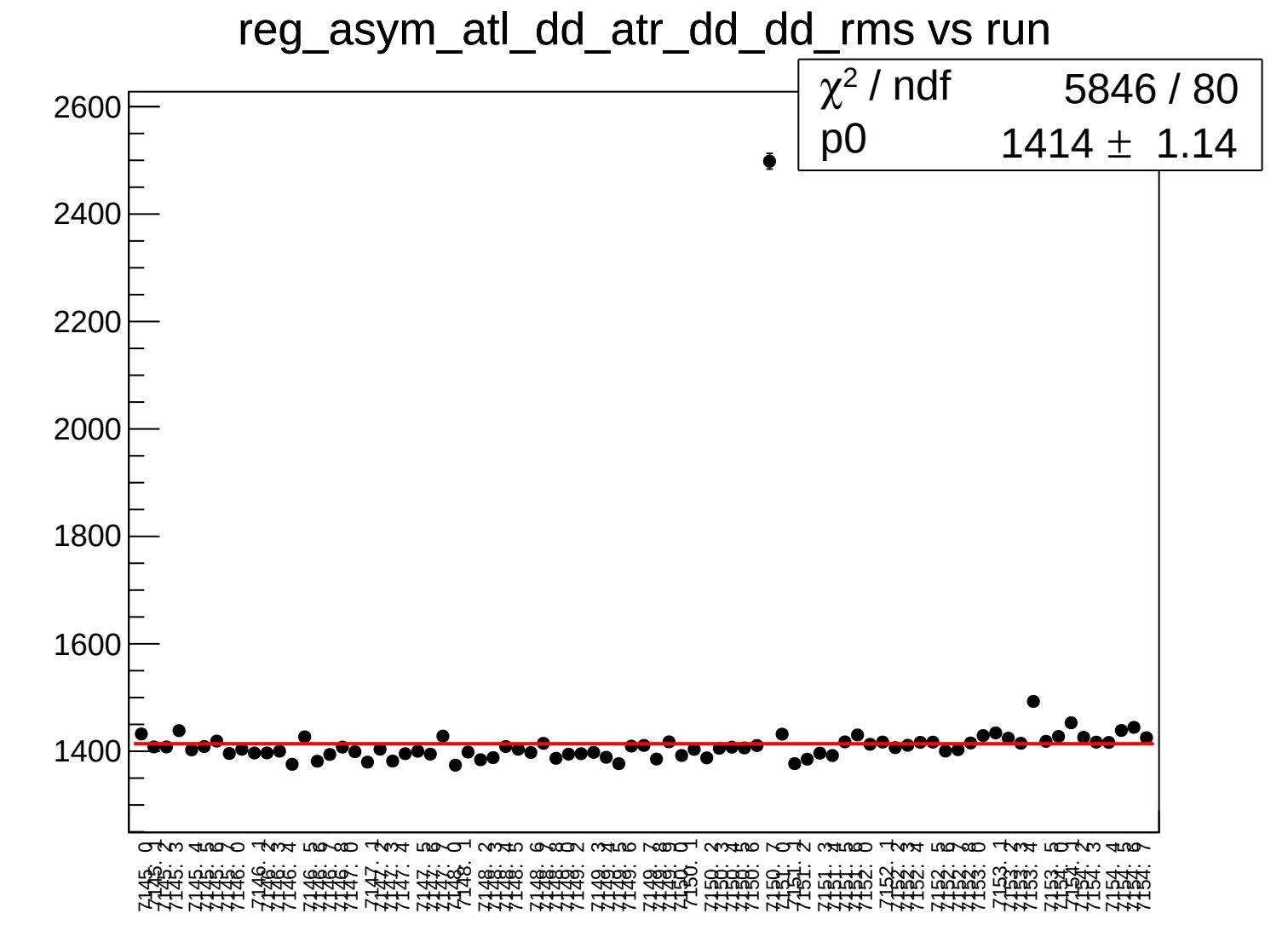

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 64.86 / 80
p0 4447 ± 5888
200
100
0
−100
−200
pull
Entries 81
Mean 293.1
Std Dev 237.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

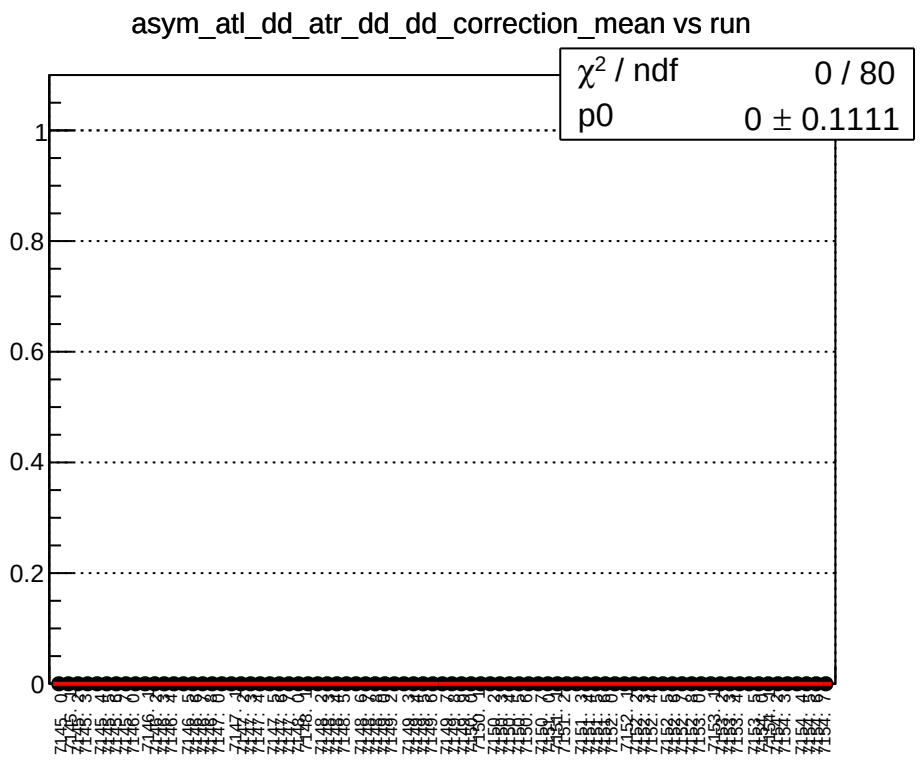

pull1D
Entries 81
Mean 0.01142
Std Dev 0.8948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

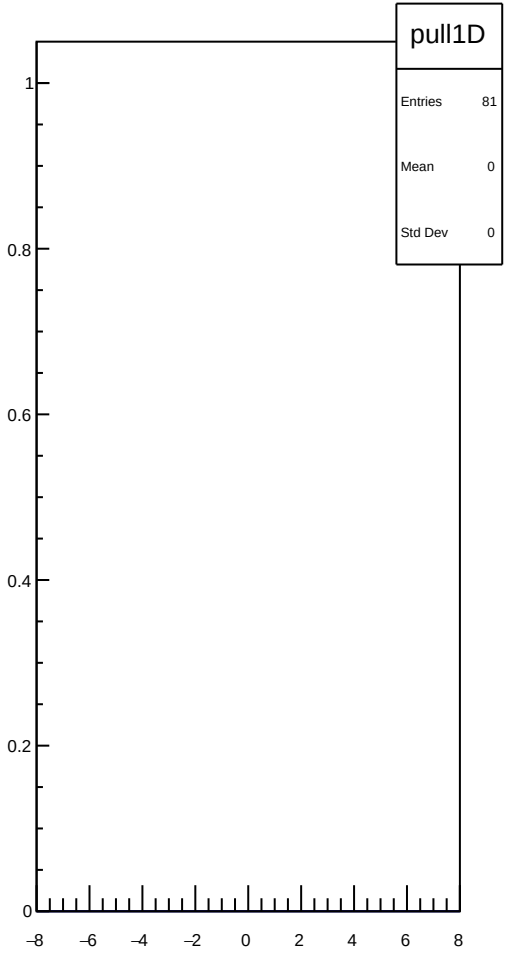

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4.524e+04 / 80
p0 5100 ± 4.164
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000

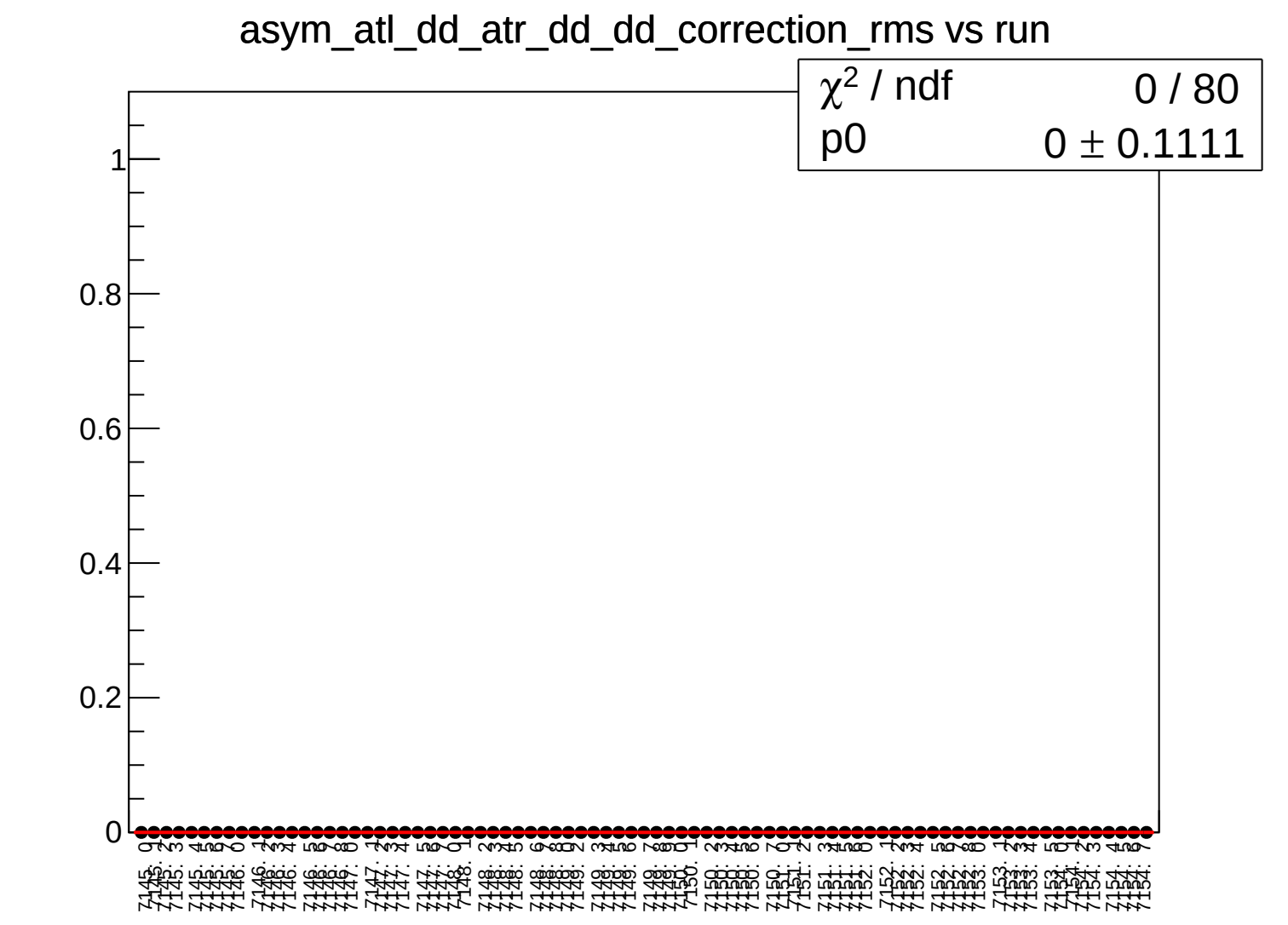

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 78.99 / 80
p0 −3115 ± 1612
pull
Entries 81
Mean −5879
Std Dev 5933

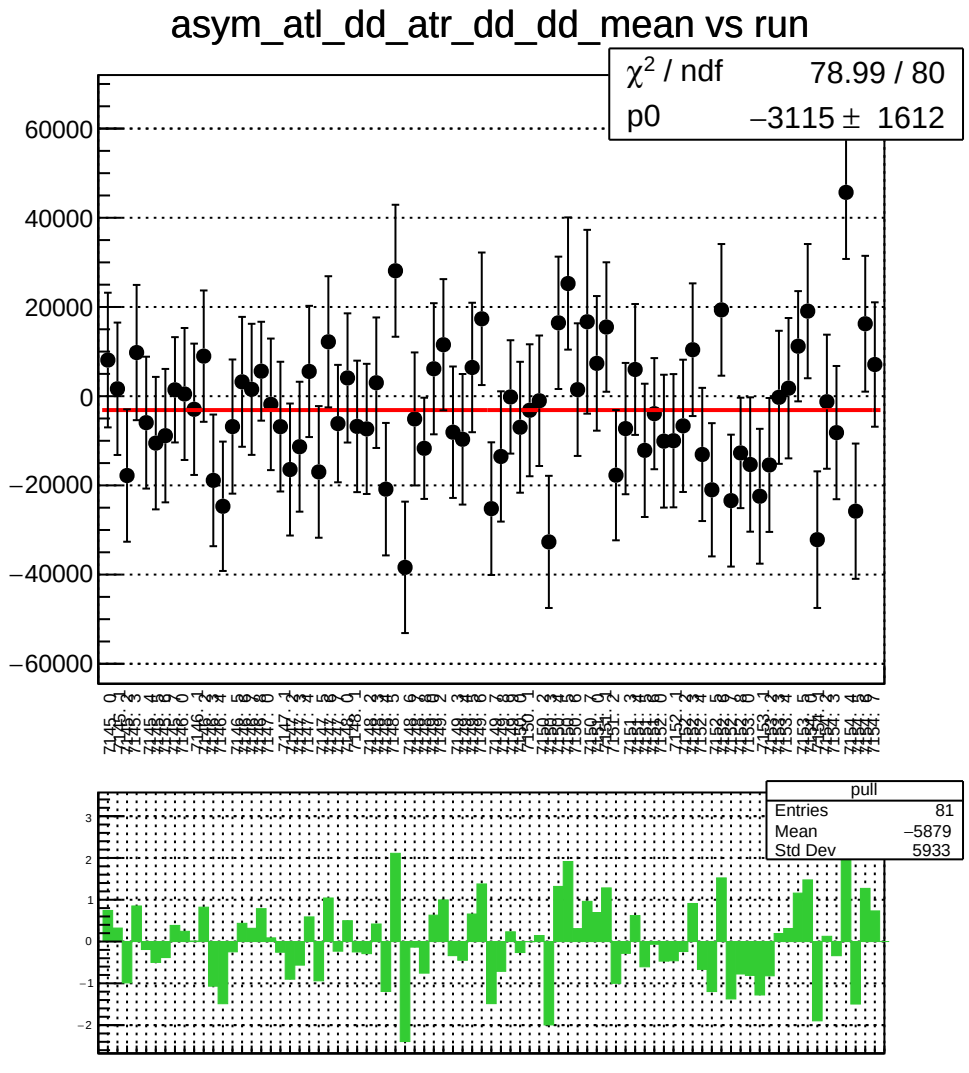

pull1D
Entries 81
Mean −0.0001772
Std Dev 0.9875

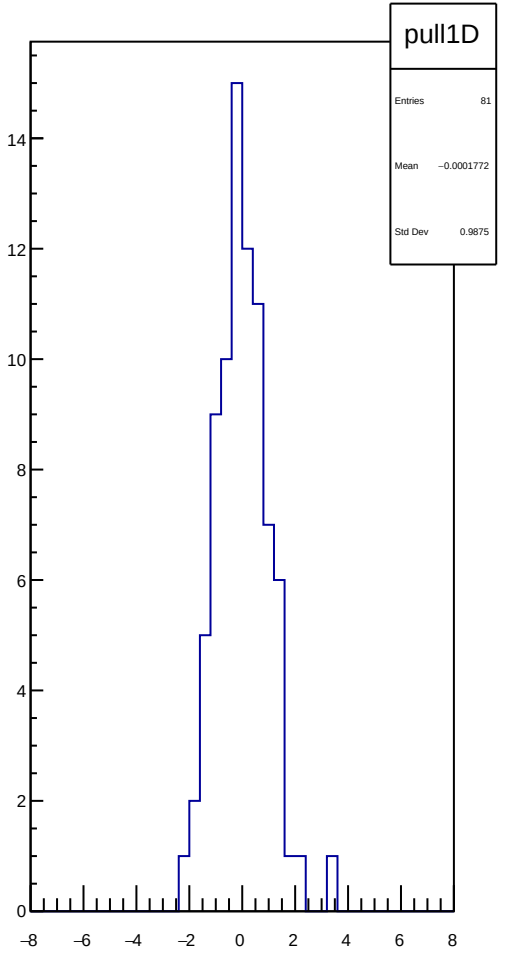

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 5846 / 80
p0 1414 ± 1.14
2600
2400
2200
2000
1800
1600
1400

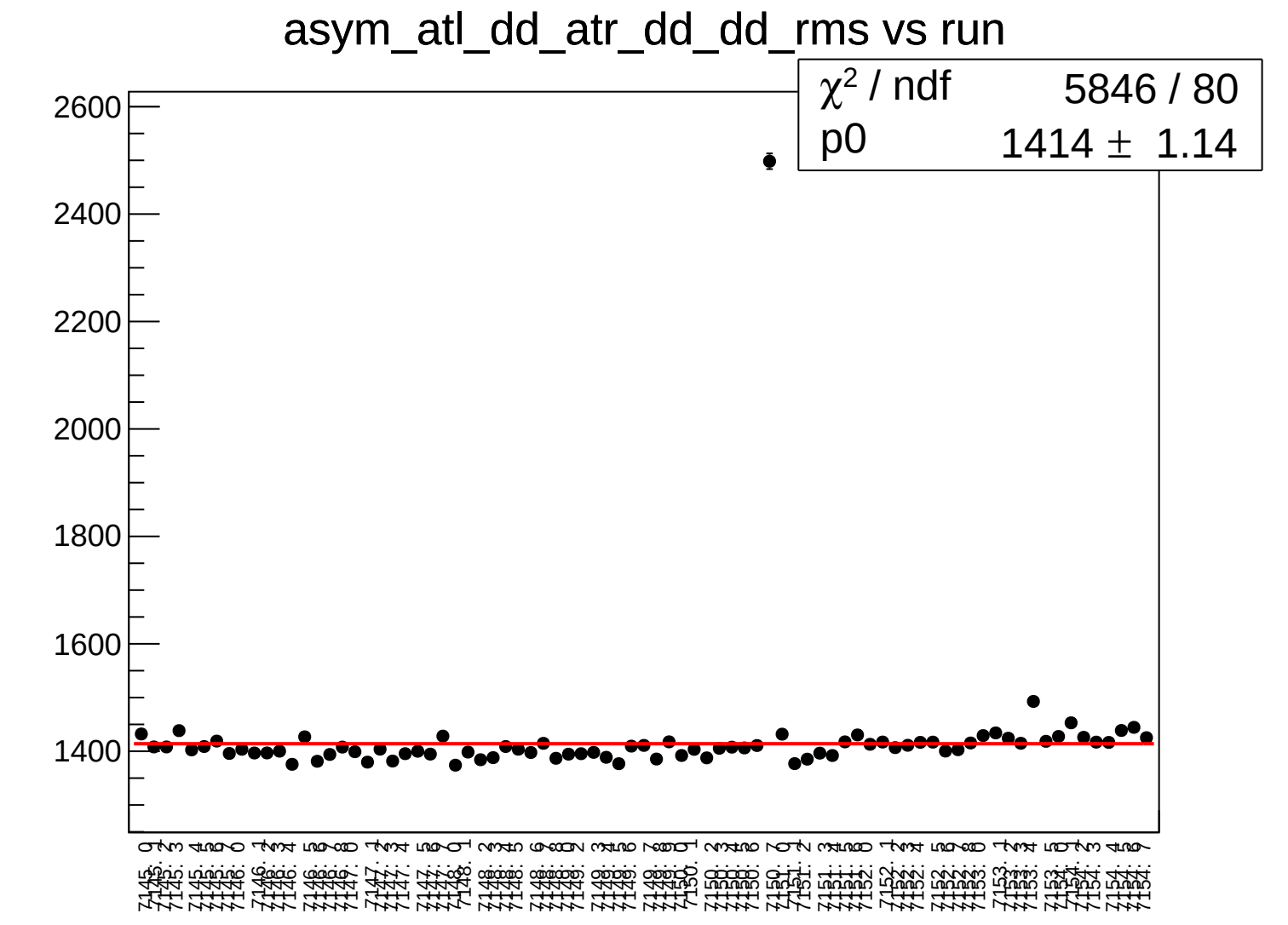

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

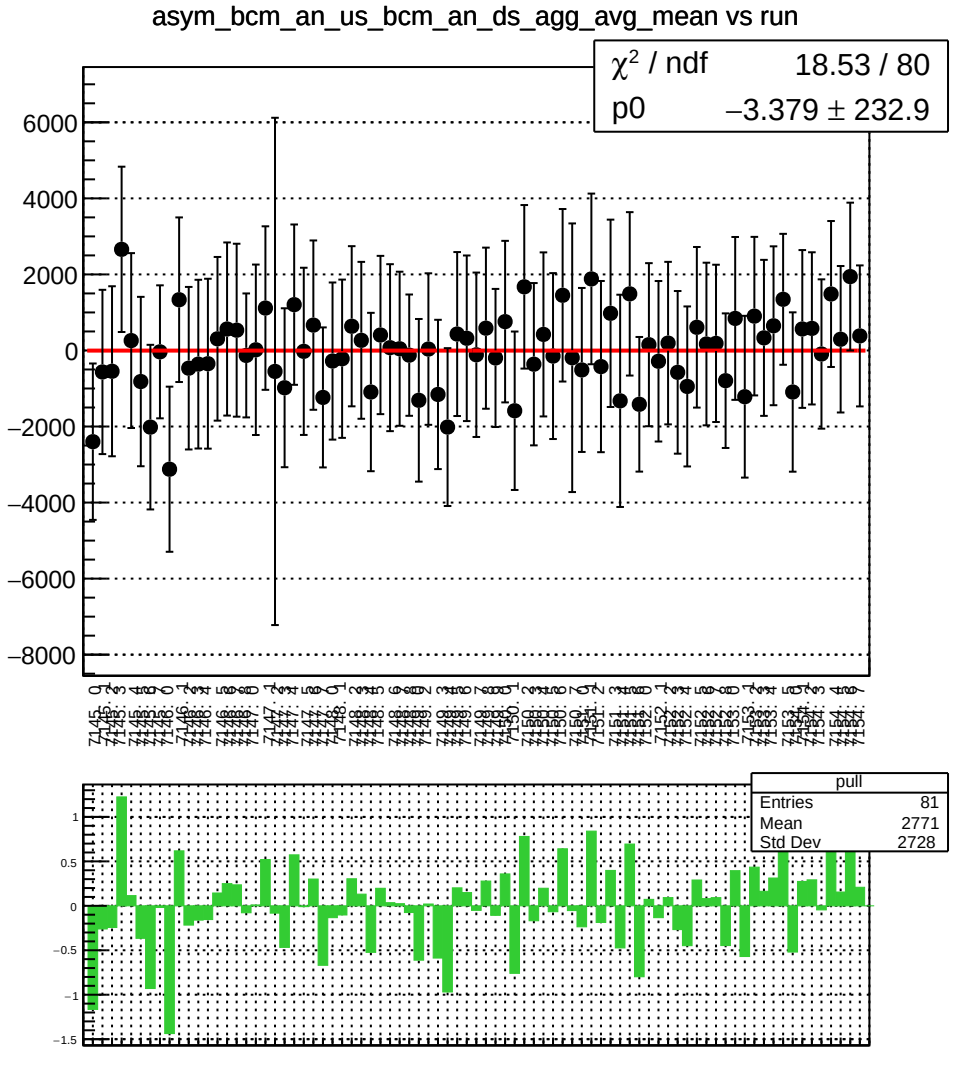

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

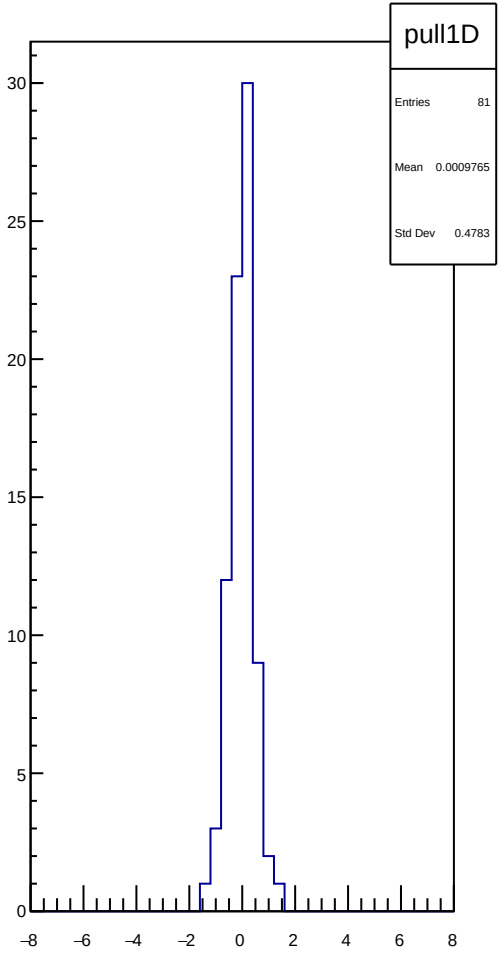

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

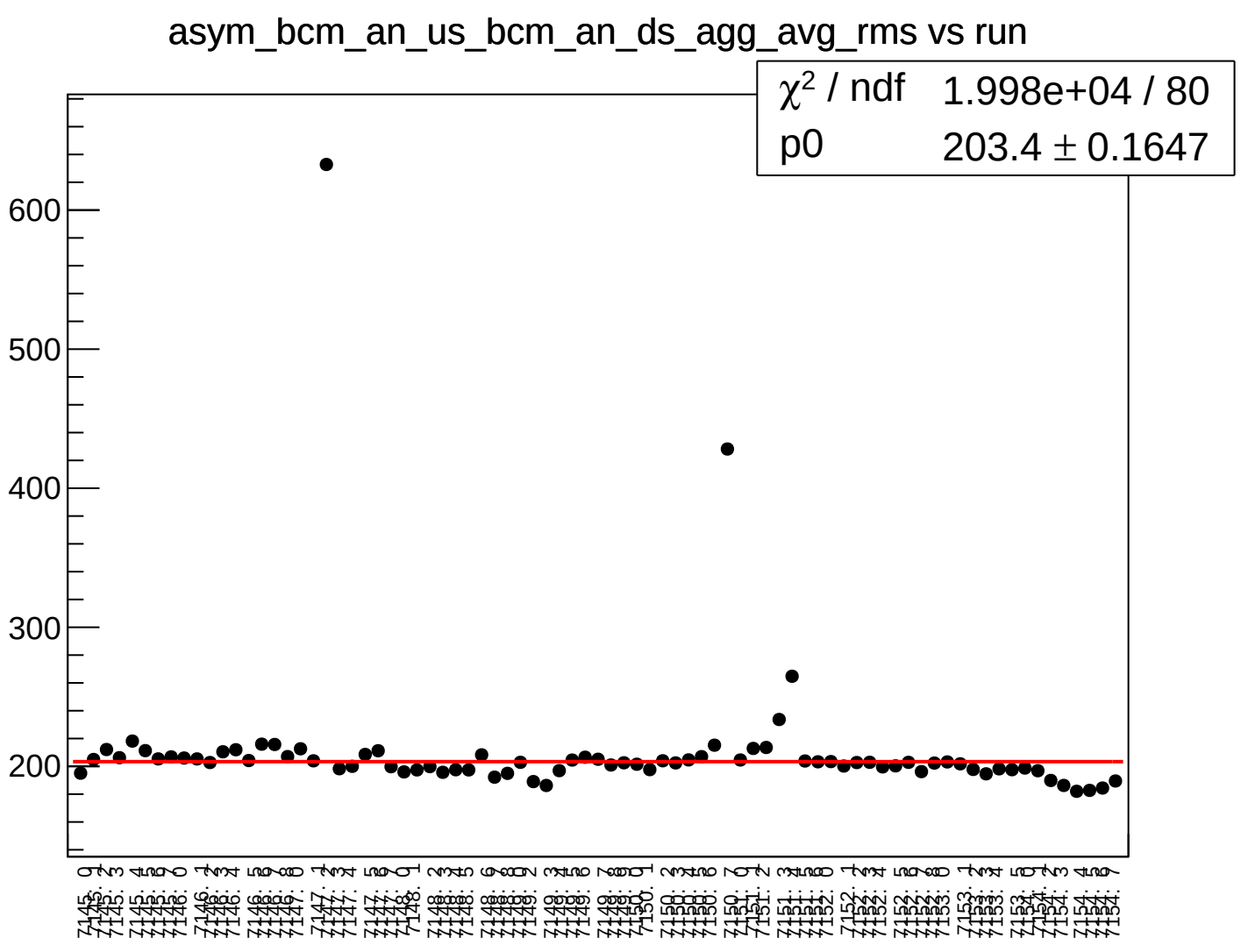

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 78.99 / 80
p0 −3115 ± 1612
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −5879
Std Dev 5933
3
2
1
0
−1
−2

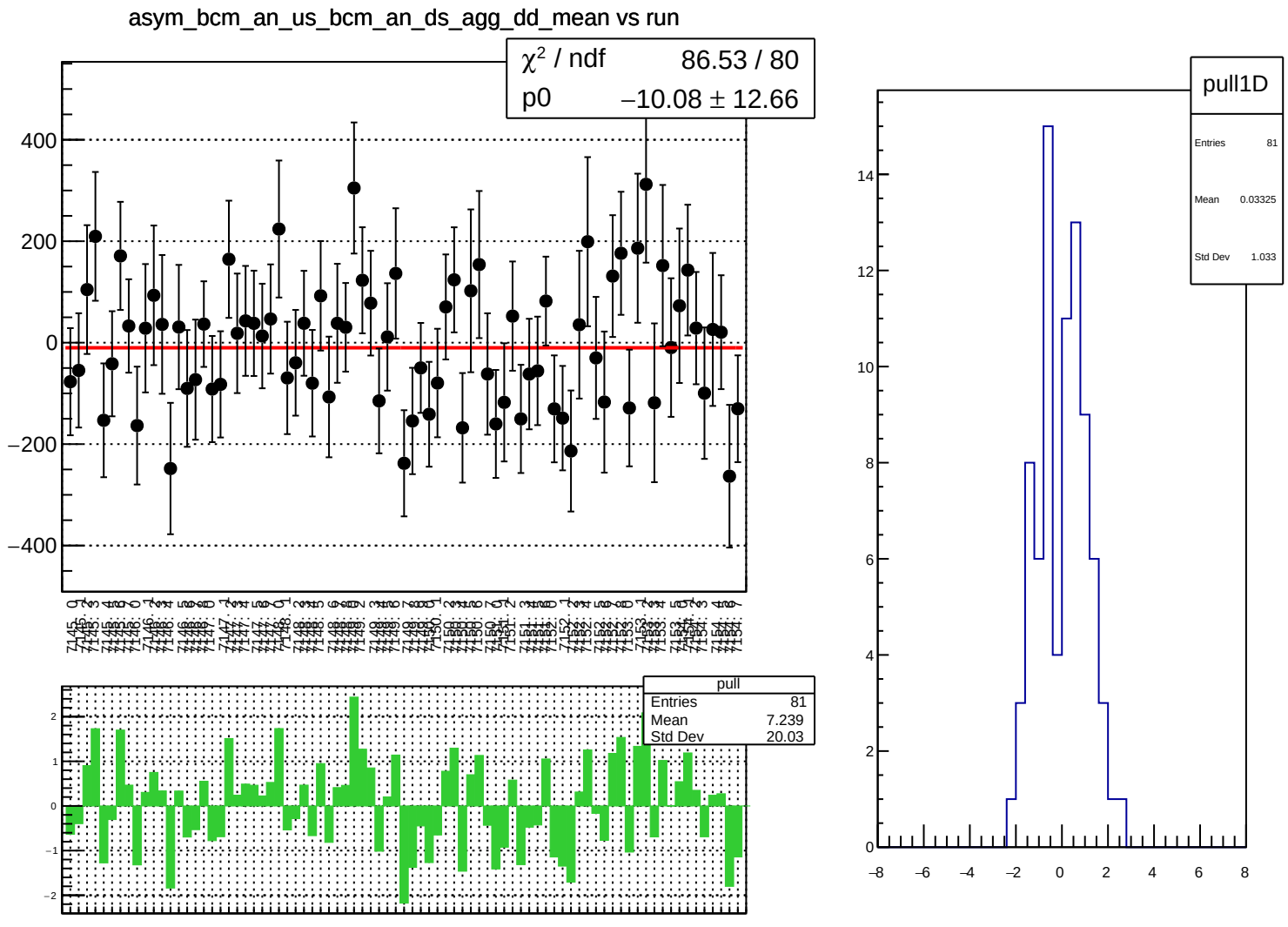

pull1D
Entries 81
Mean −0.0001772
Std Dev 0.9875
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

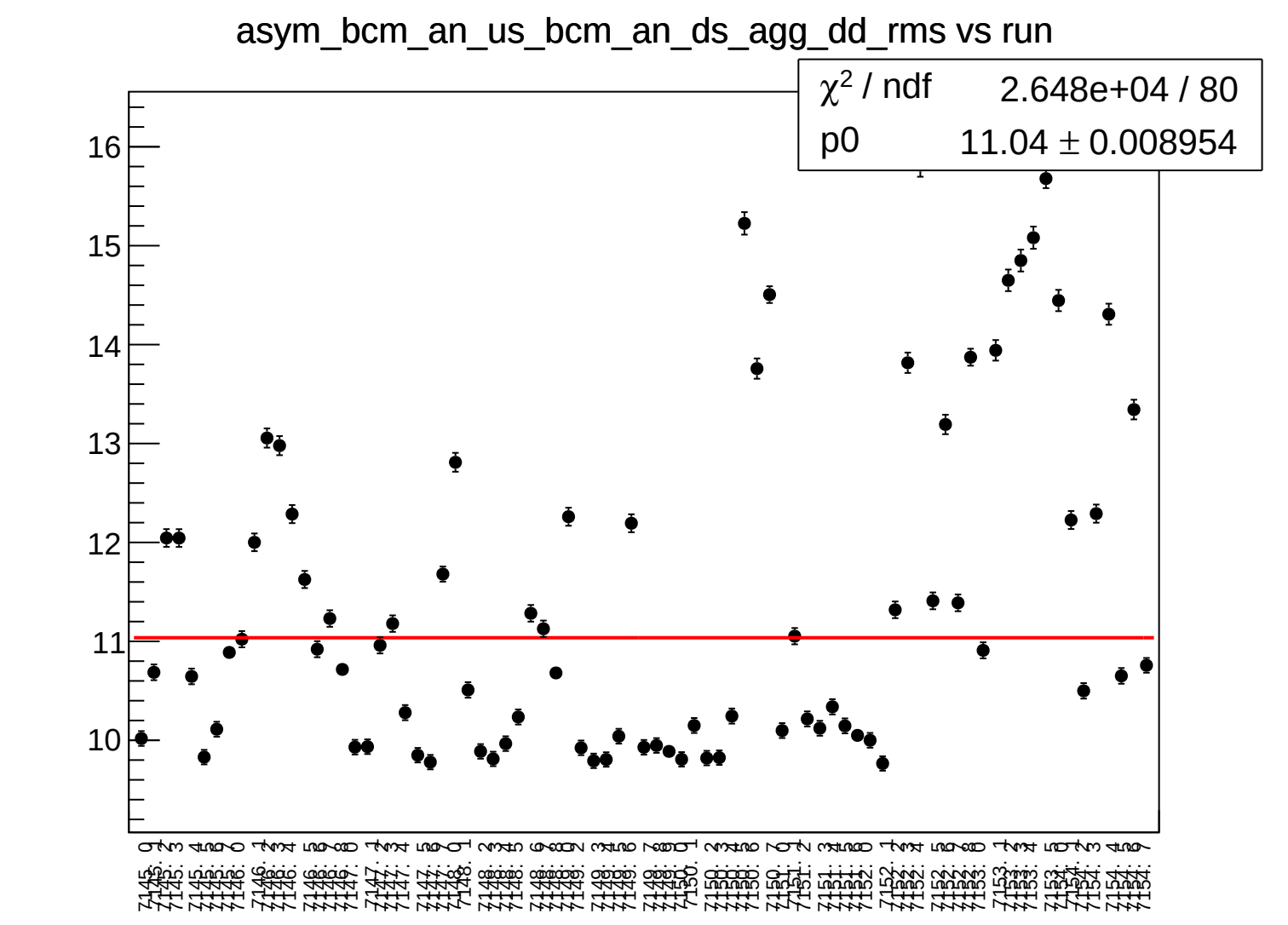

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 5846 / 80
p0 1414 ± 1.14
2600
2400
2200
2000
1800
1600
1400

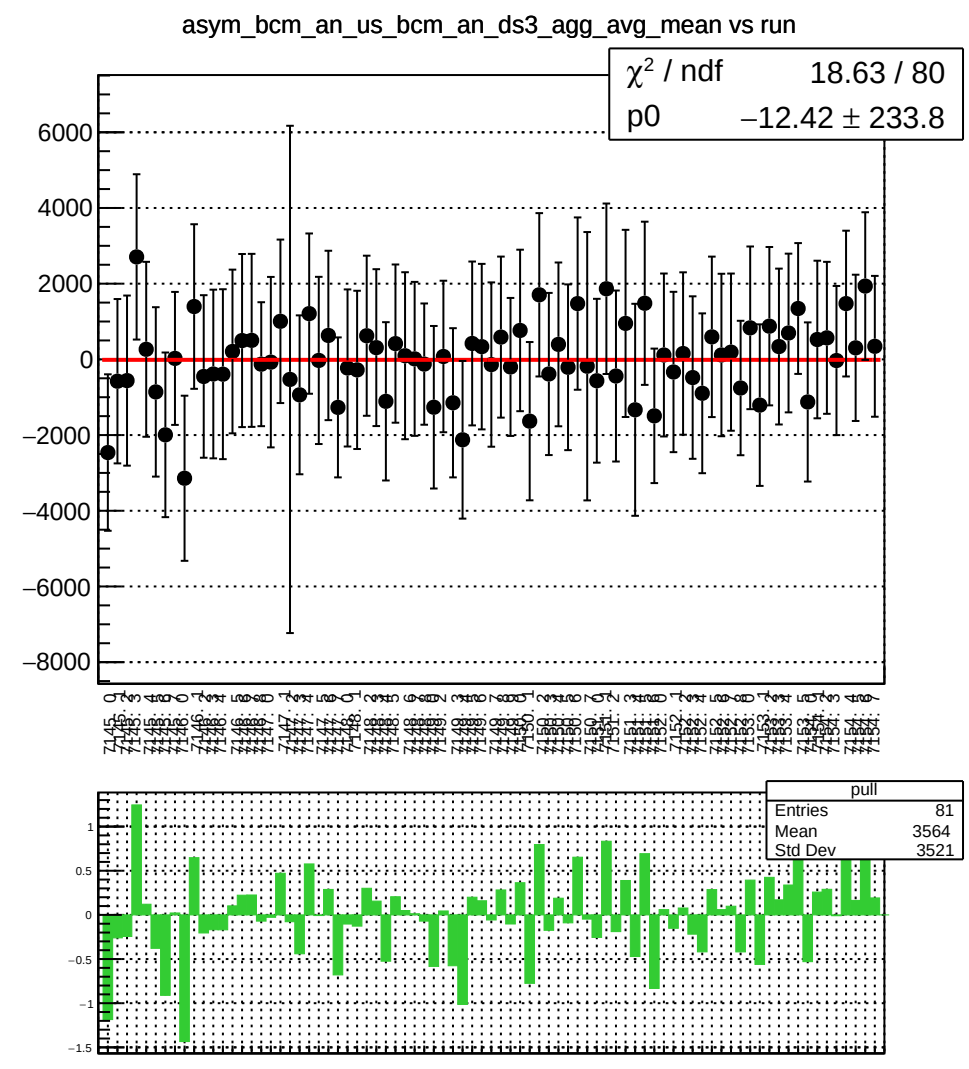

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.53 / 80
p0 −3.379 ± 232.9
pull
Entries 81
Mean 2771
Std Dev 2728

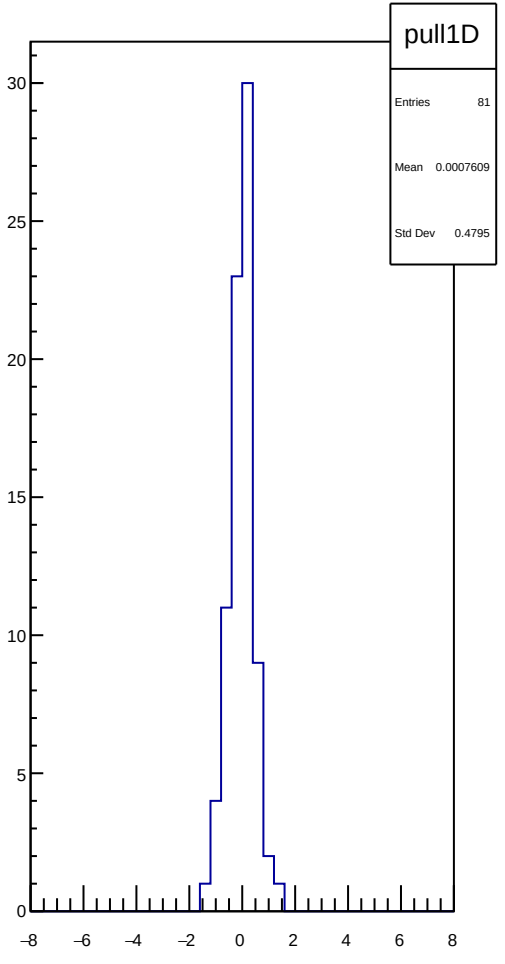

pull1D
Entries 81
Mean 0.0009765
Std Dev 0.4783

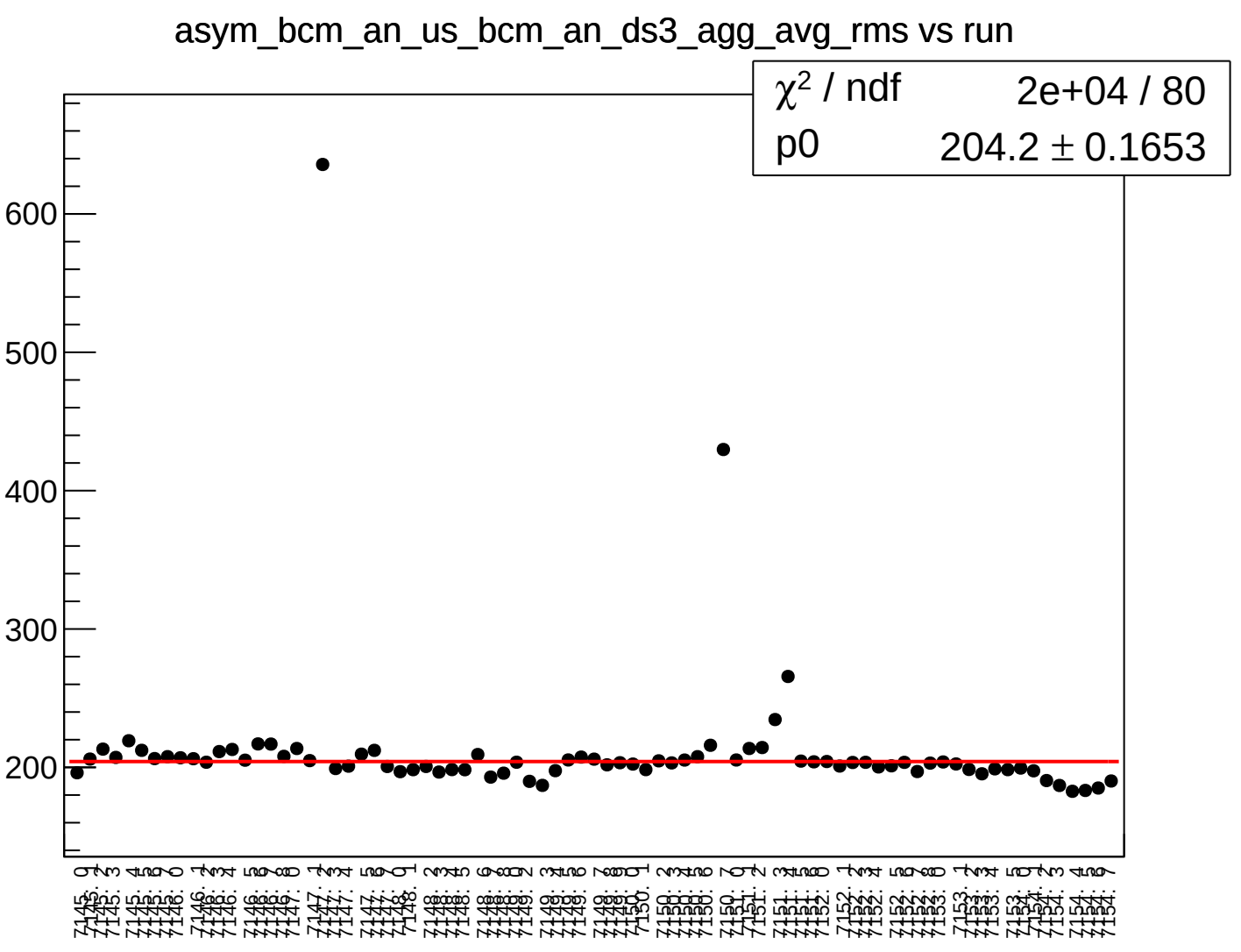

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.998e+04 / 80
p0 203.4 ± 0.1647
600
500
400
300
200

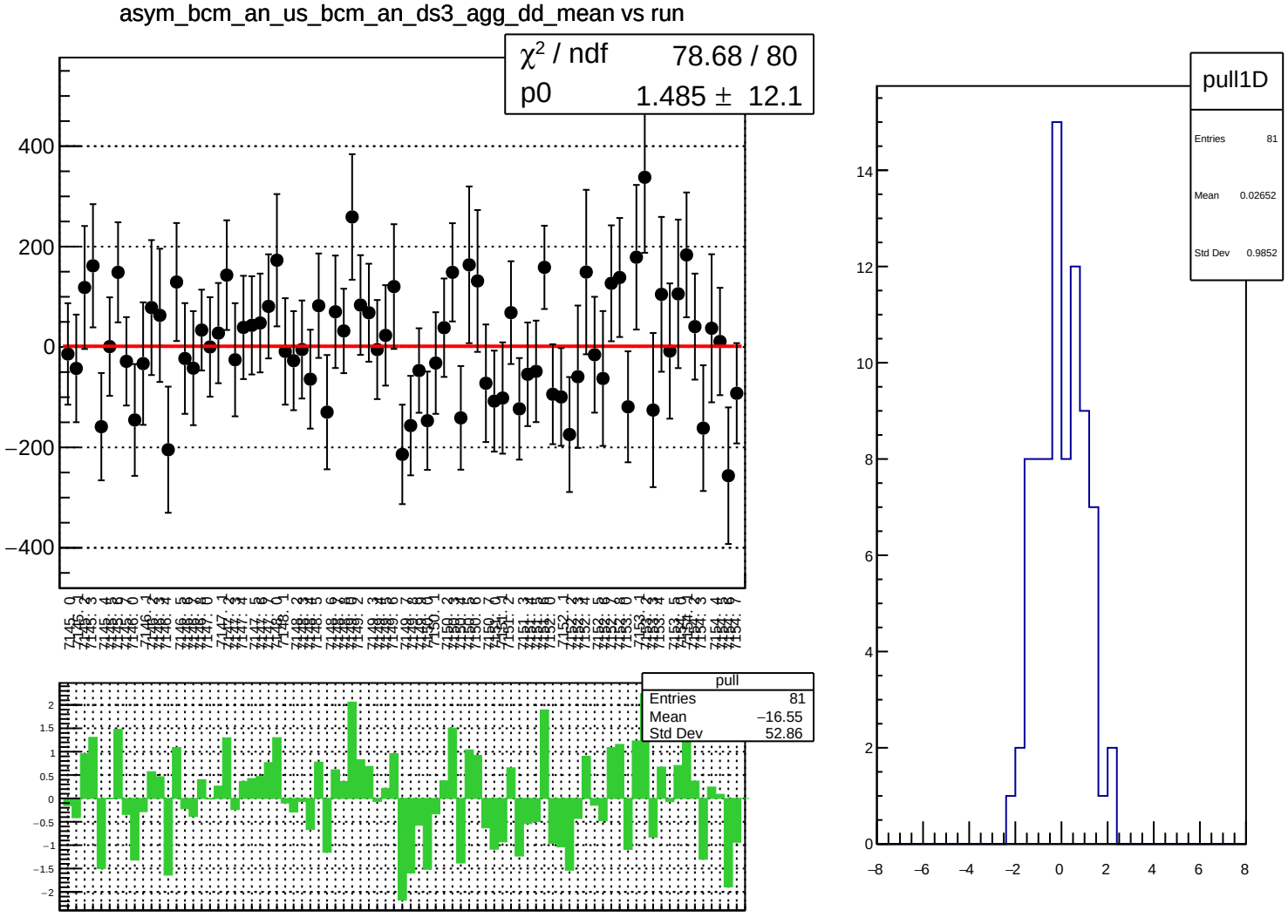

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 86.53 / 80
p0 −10.08 ± 12.66
400
200
0
−200
−400
pull
Entries 81
Mean 7.239
Std Dev 20.03
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.03325
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

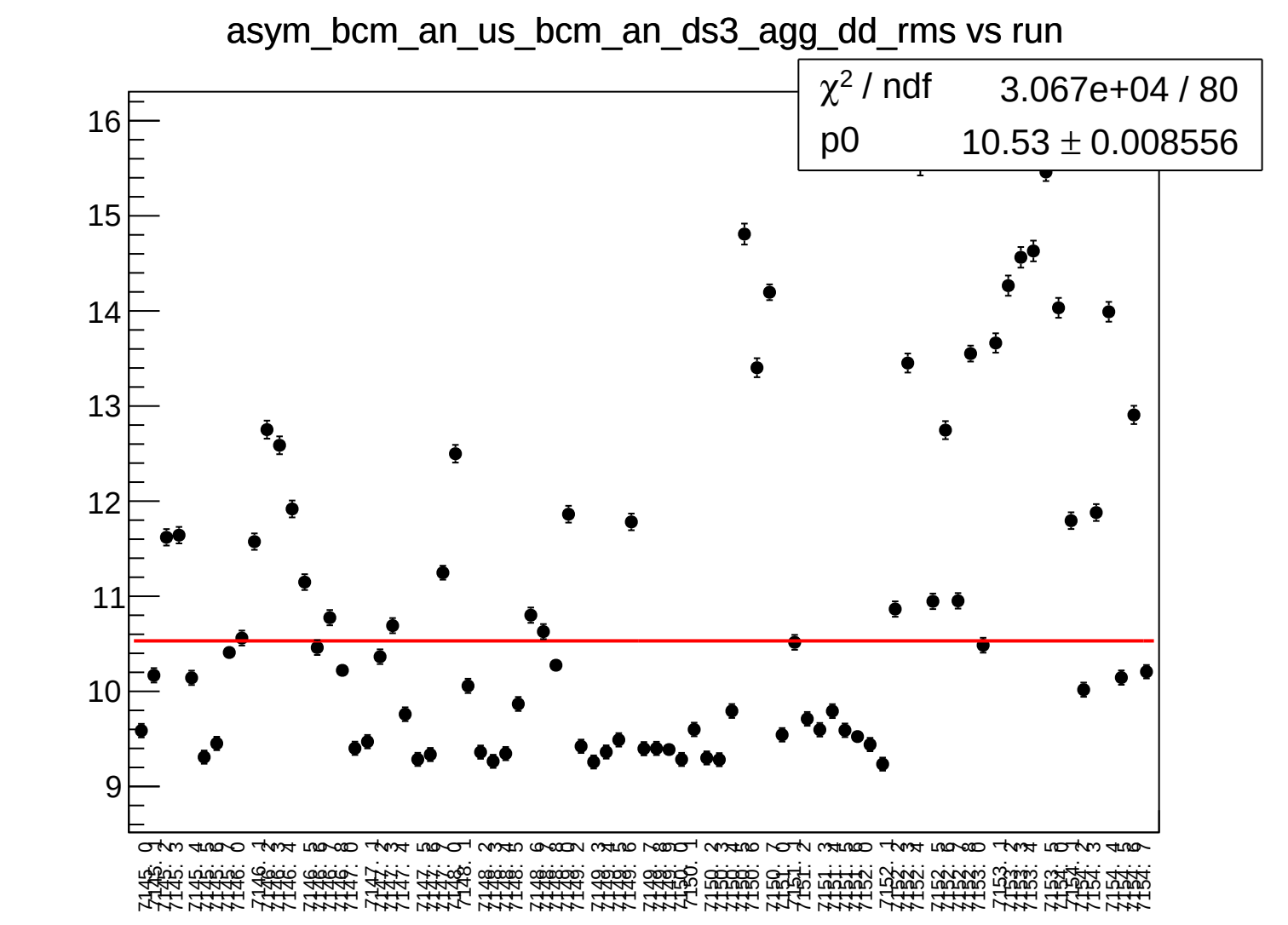

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.648e+04 / 80
p0 11.04 ± 0.008954
16
15
14
13
12
11
10

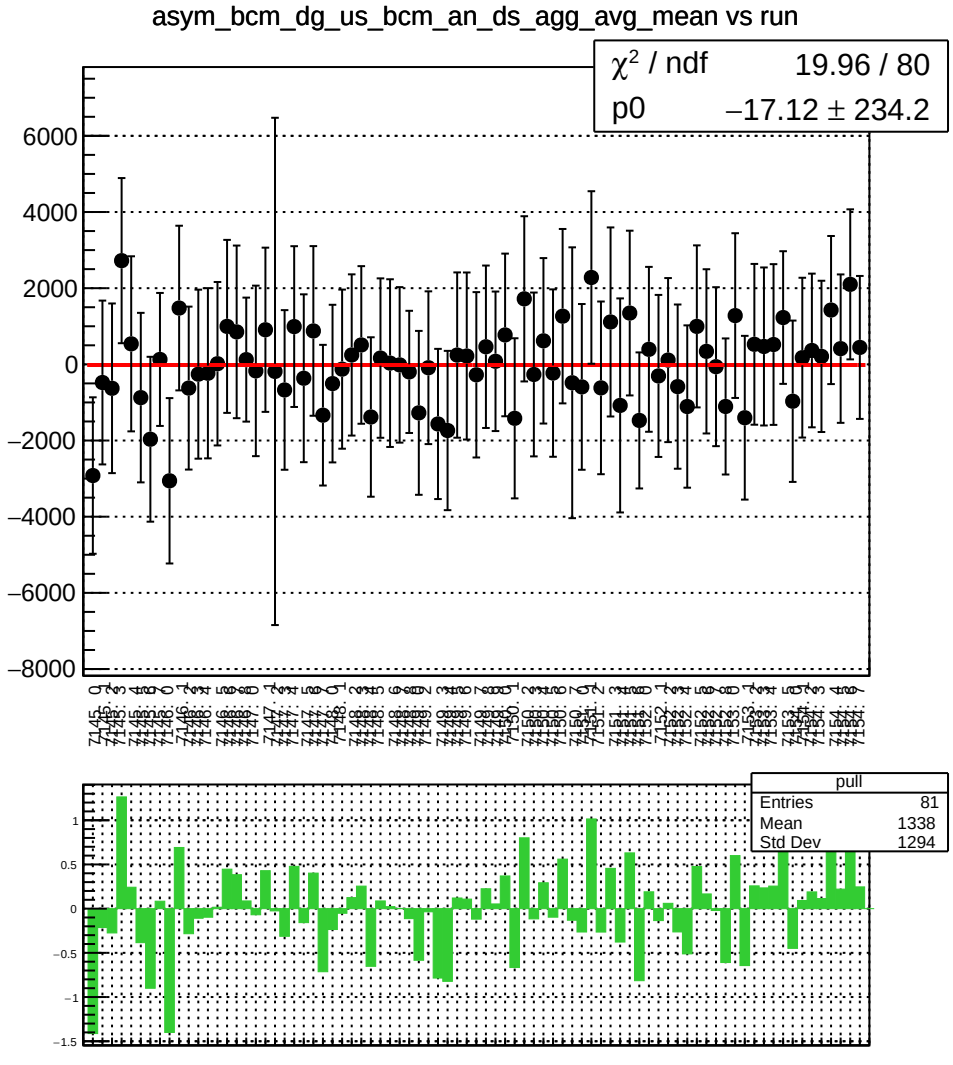

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 18.63 / 80
p0 −12.42 ± 233.8
pull
Entries 81
Mean 3564
Std Dev 3521

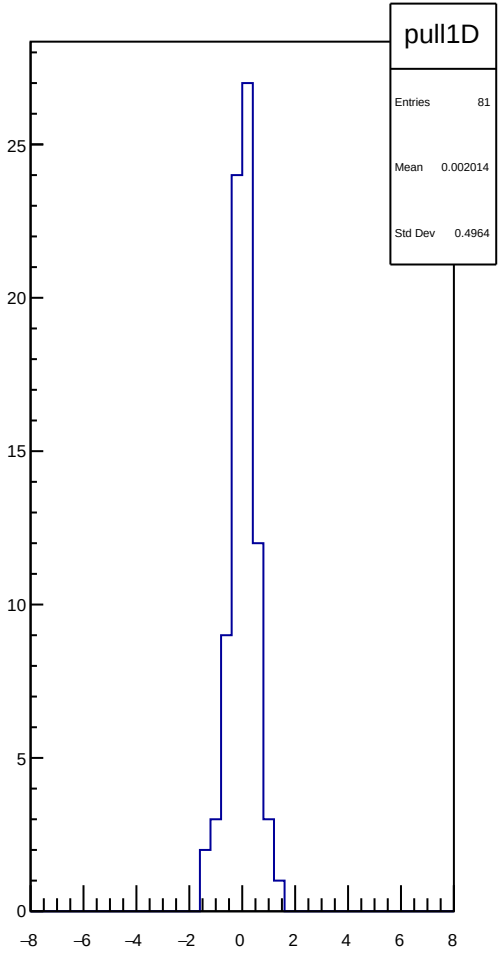

pull1D
Entries 81
Mean 0.0007609
Std Dev 0.4795

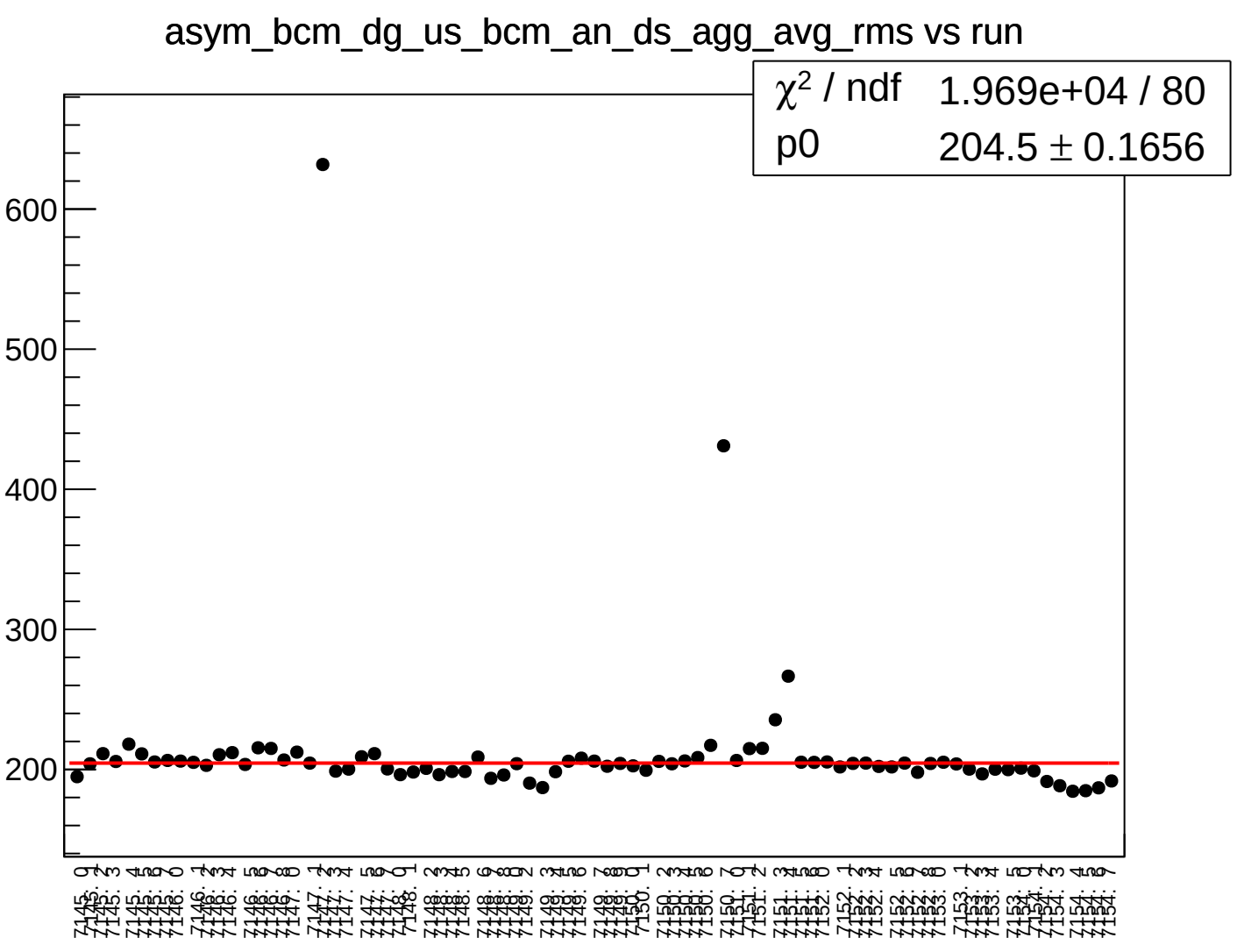

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2e+04 / 80
p0 204.2 ± 0.1653
600
500
400
300
200

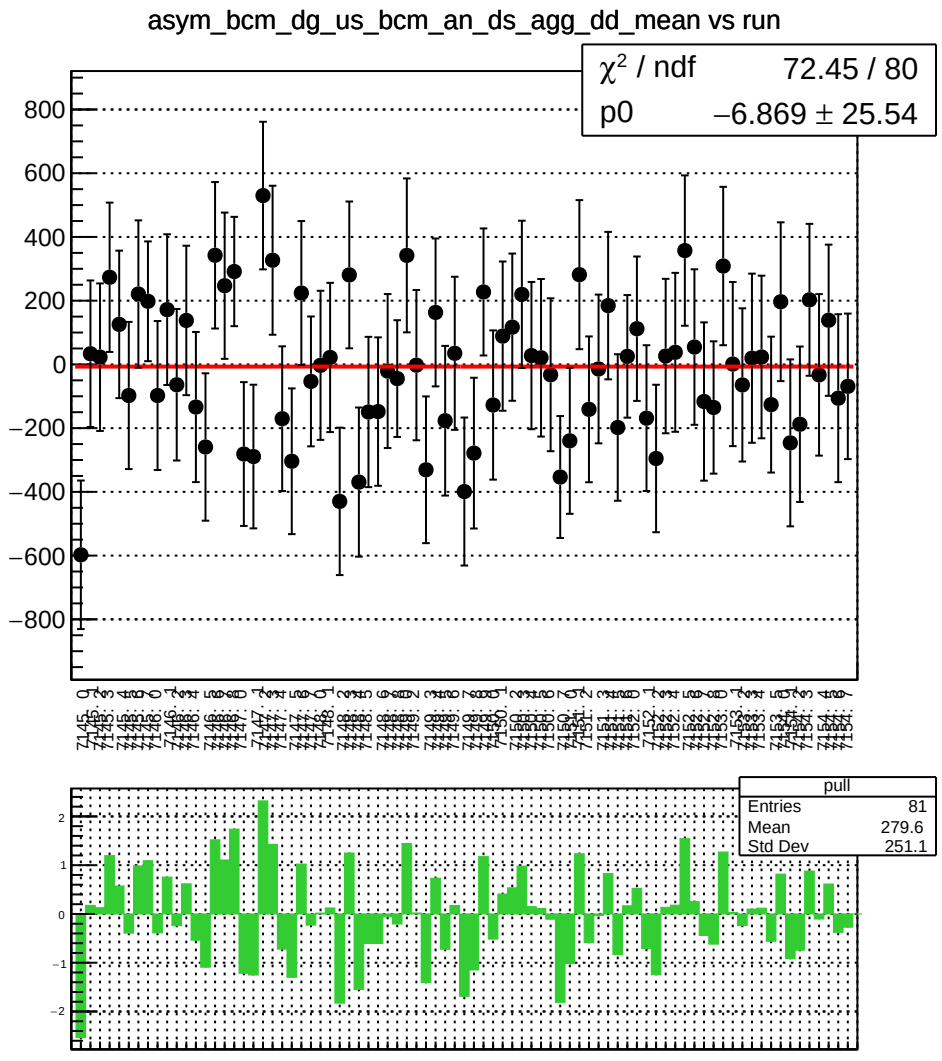

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 78.68 / 80
p0 1.485 ± 12.1
400
200
0
−200
−400
pull
Entries 81
Mean −16.55
Std Dev 52.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 81
Mean 0.02652
Std Dev 0.9852
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

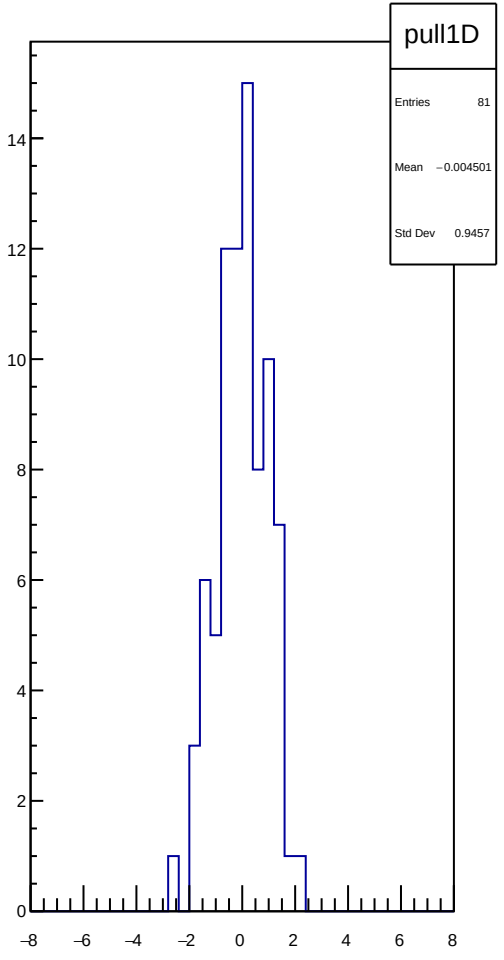

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 3.067e+04 / 80
p0 10.53 ± 0.008556
16
15
14
13
12
11
10
9

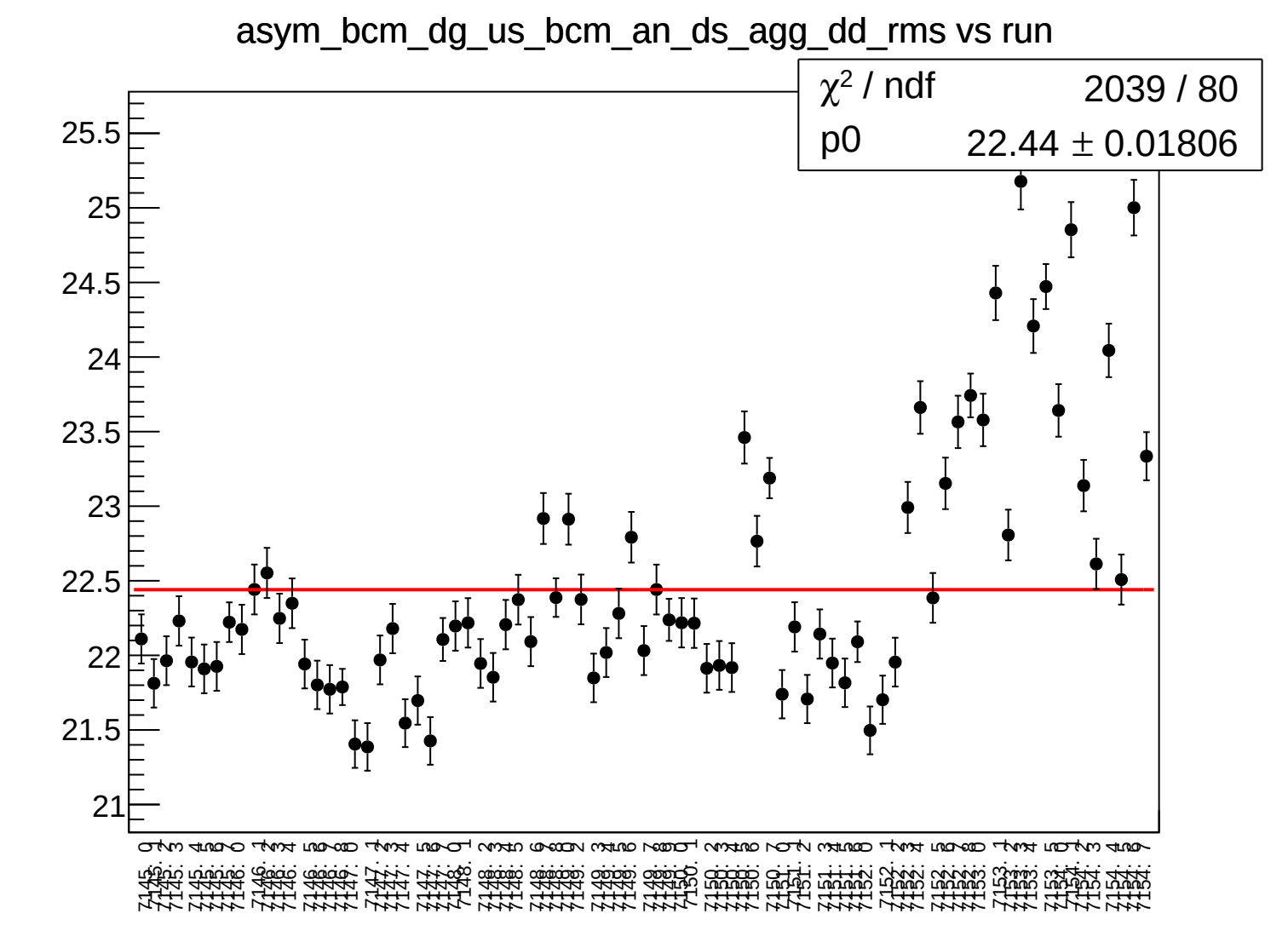

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.96 / 80
p0 −17.12 ± 234.2
pull
Entries 81
Mean 1338
Std Dev 1294

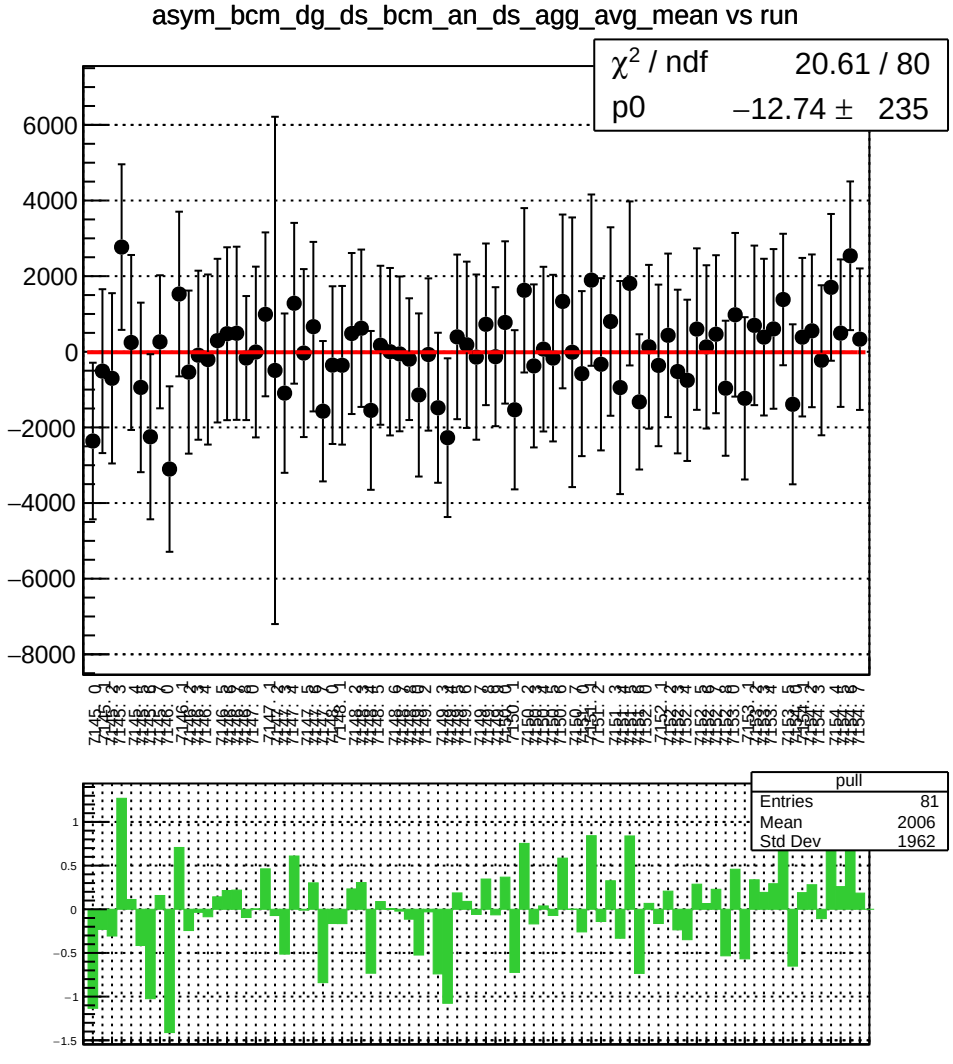

pull1D
Entries 81
Mean 0.002014
Std Dev 0.4964

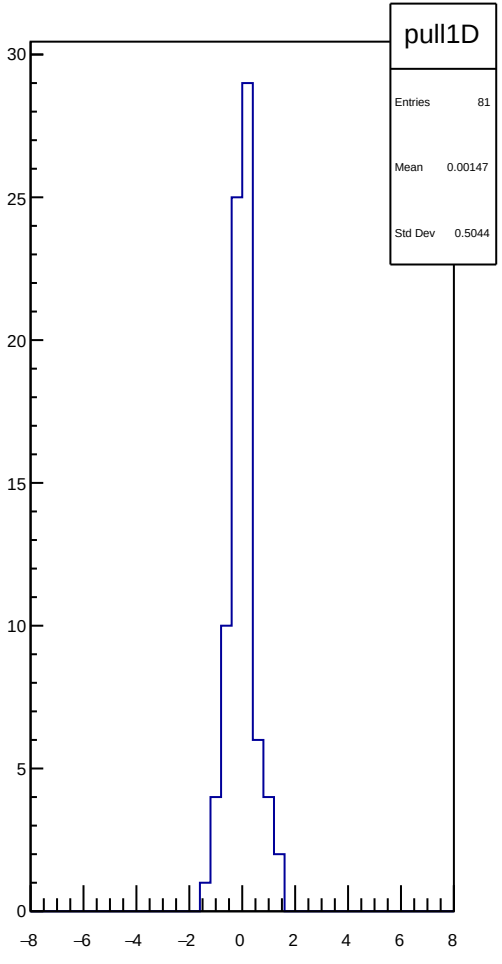

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.969e+04 / 80
p0 204.5 ± 0.1656
600
500
400
300
200

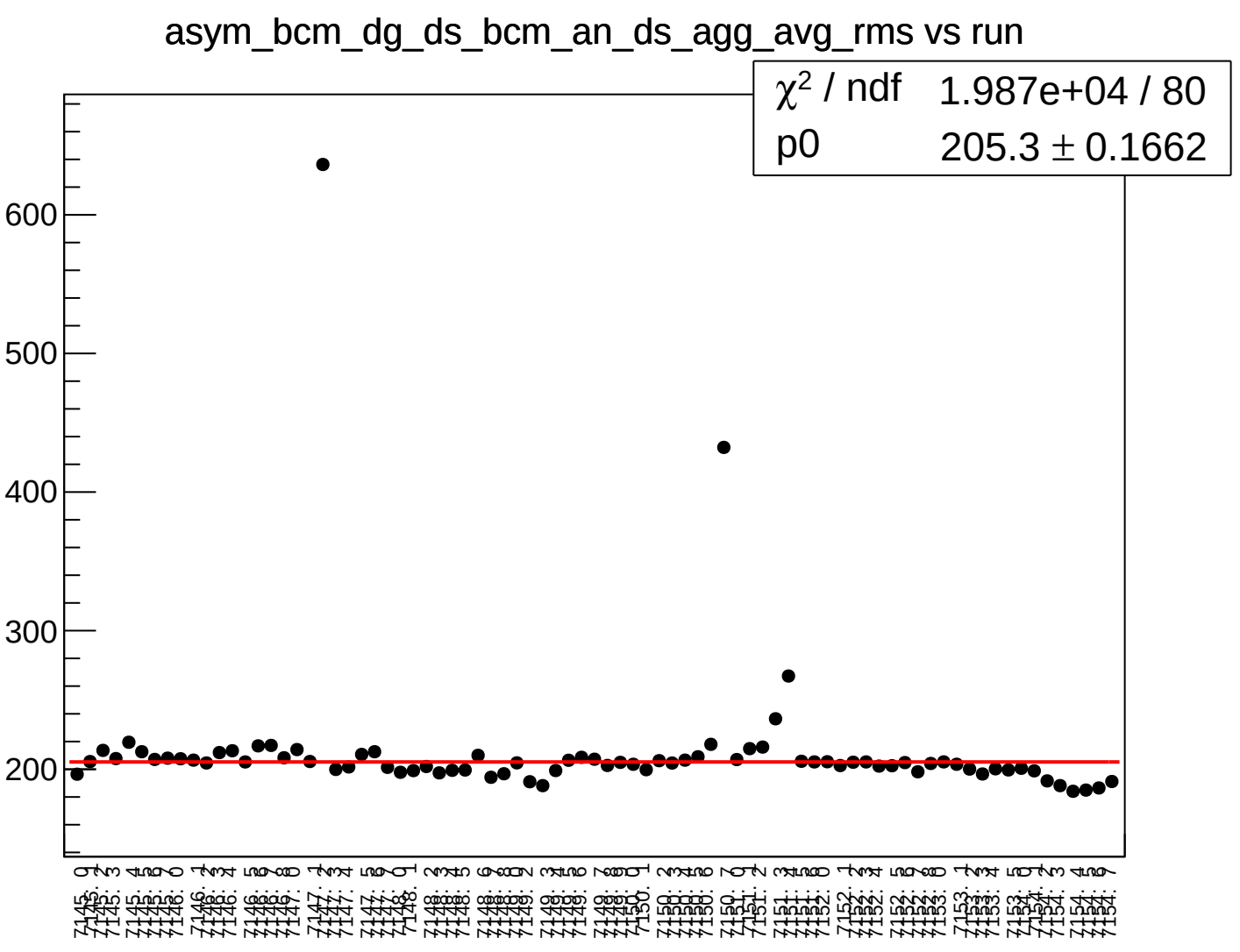

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 72.45 / 80
p0 −6.869 ± 25.54
pull
Entries 81
Mean 279.6
Std Dev 251.1

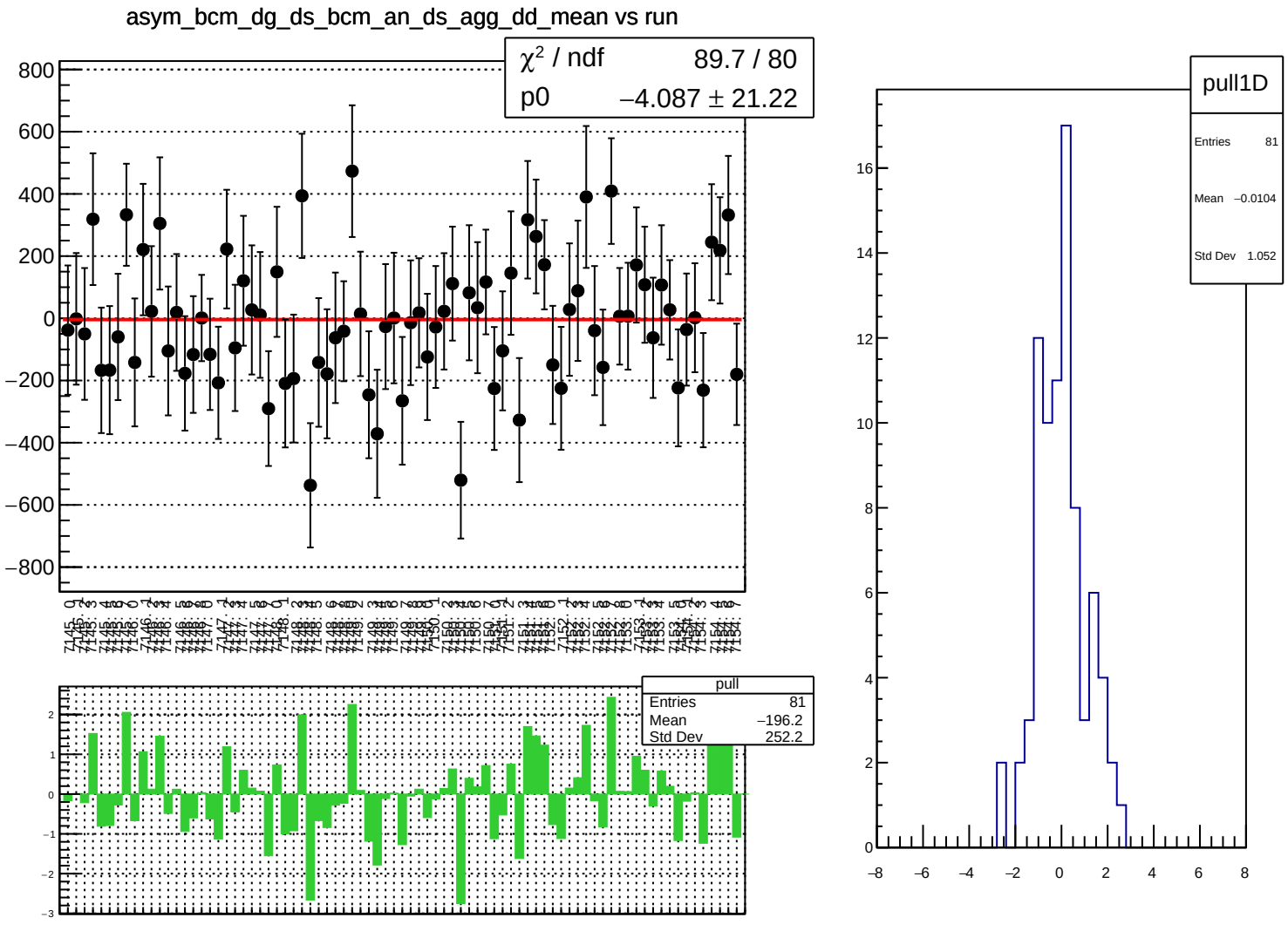

pull1D
Entries 81
Mean −0.004501
Std Dev 0.9457

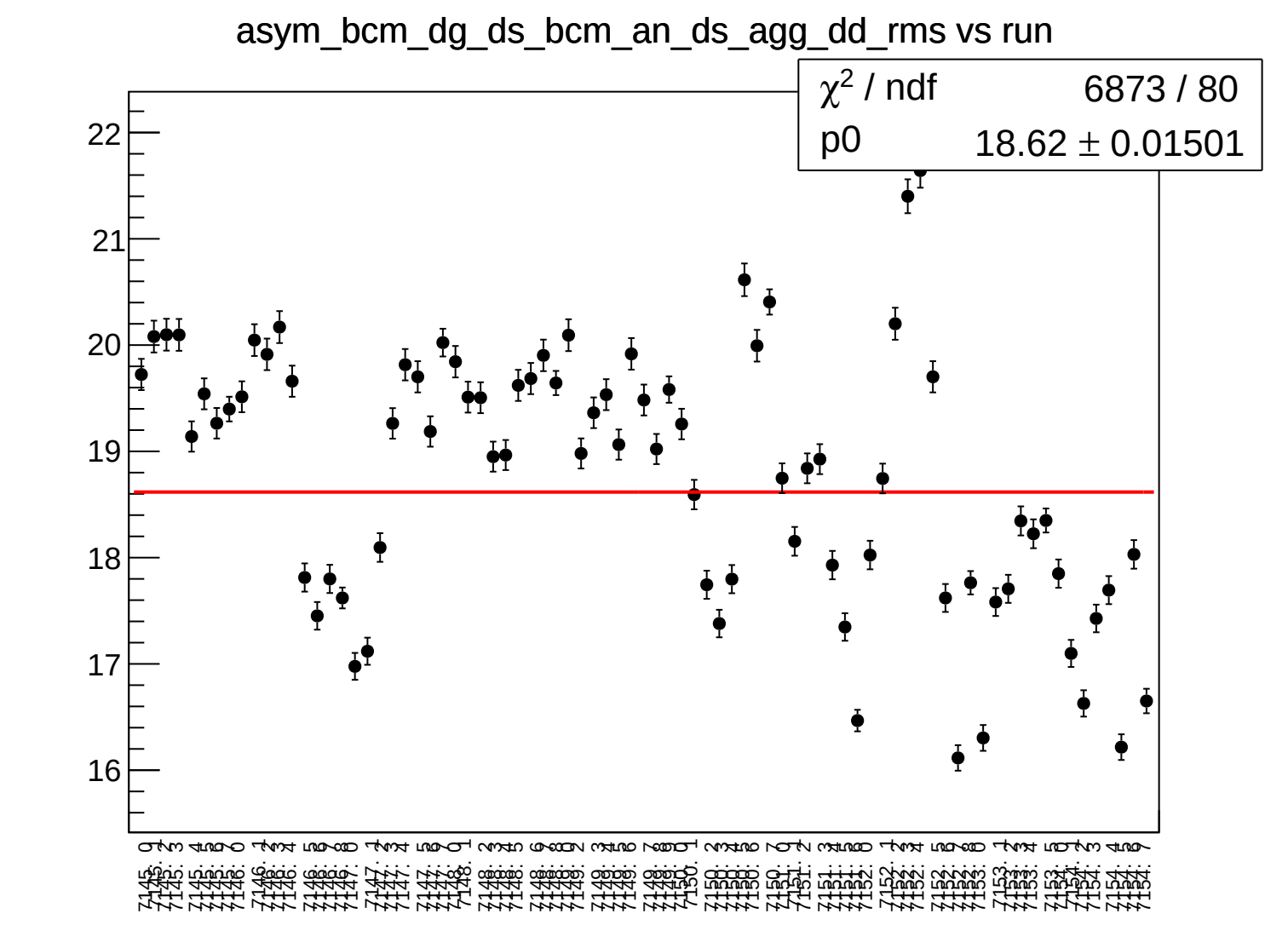

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2039 / 80
p0 22.44 ± 0.01806
25.5
25
24.5
24
23.5
23
22.5
22
21.5
21

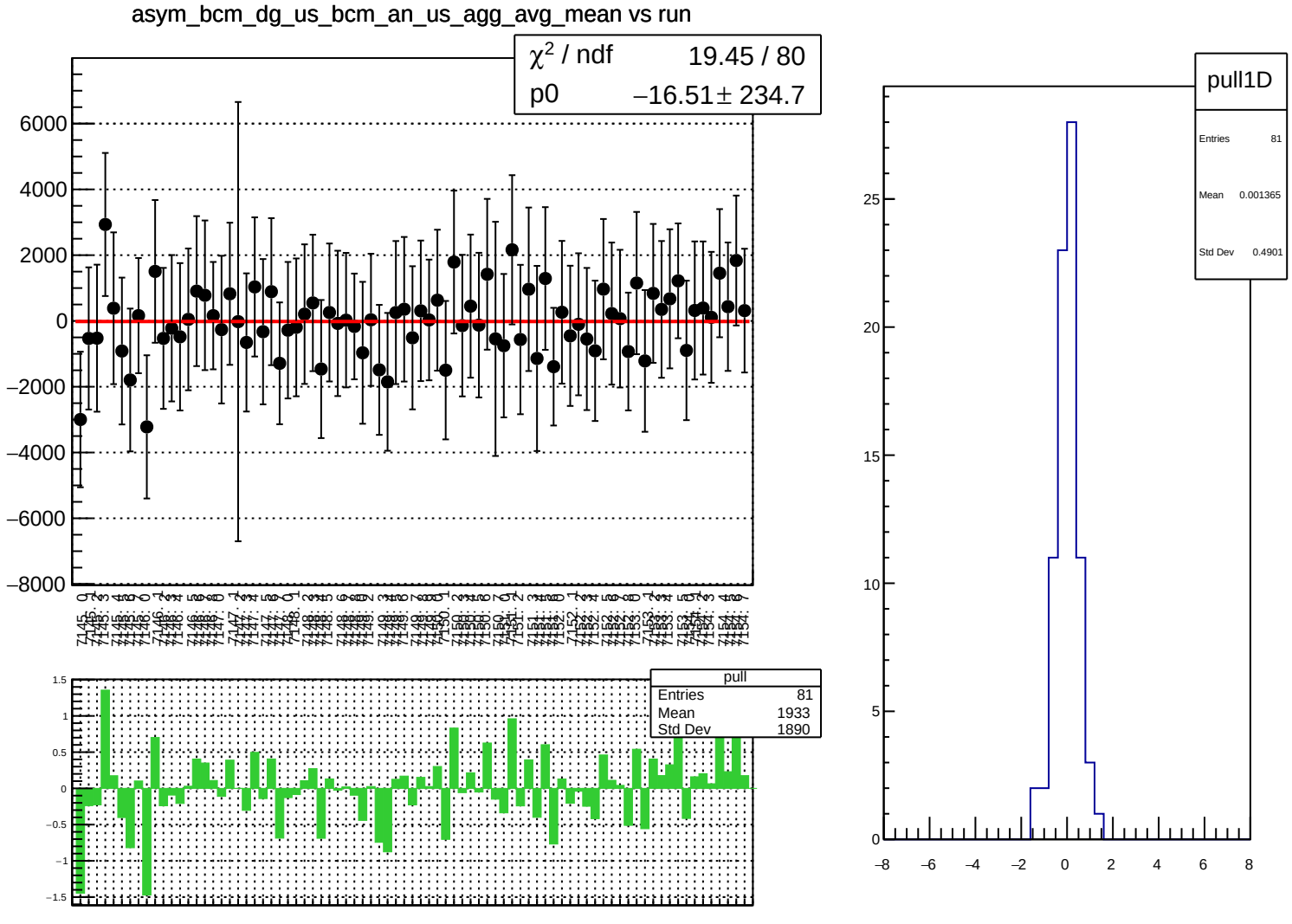

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 20.61 / 80
p0 −12.74 ± 235
pull
Entries 81
Mean 2006
Std Dev 1962

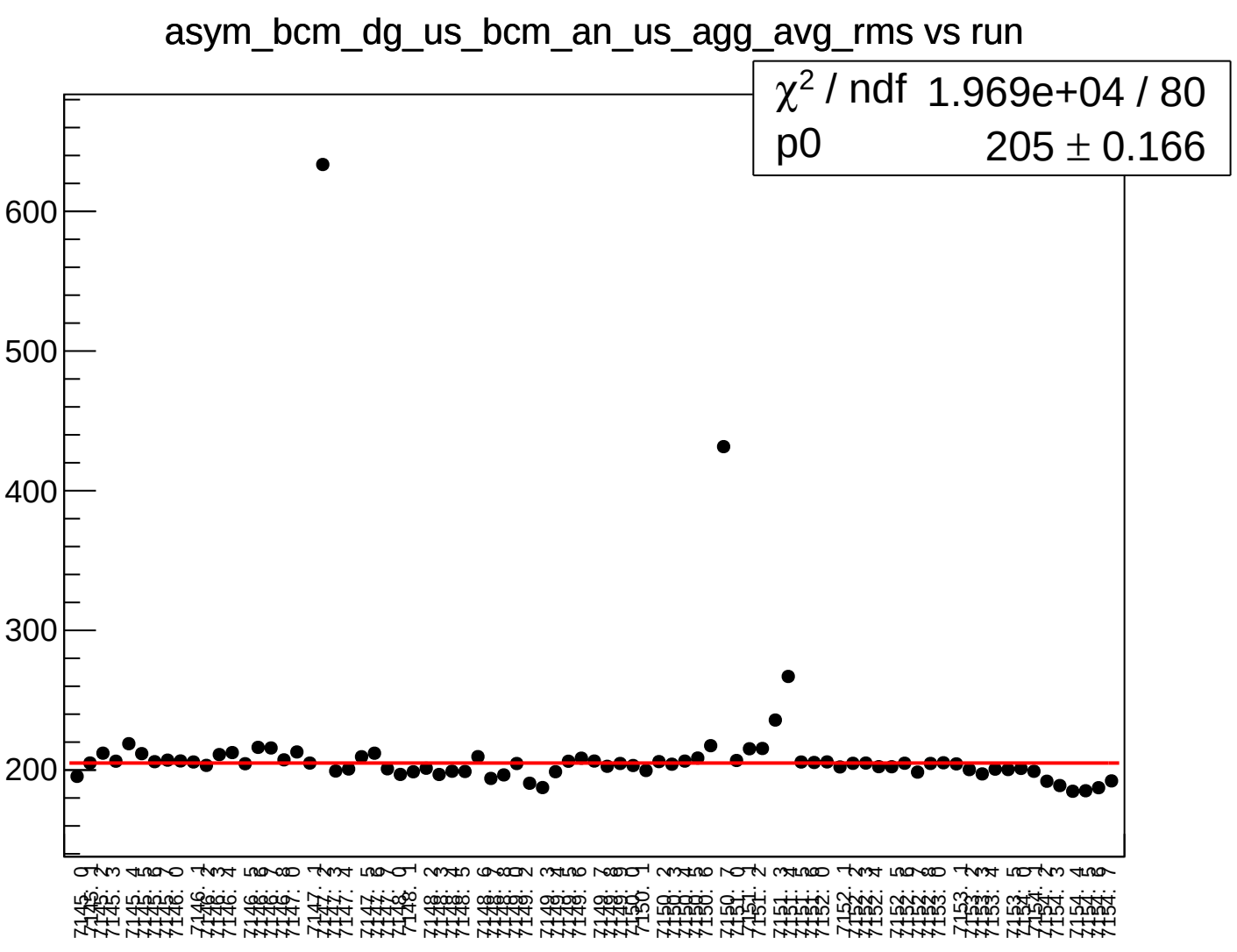

pull1D
Entries 81
Mean 0.00147
Std Dev 0.5044

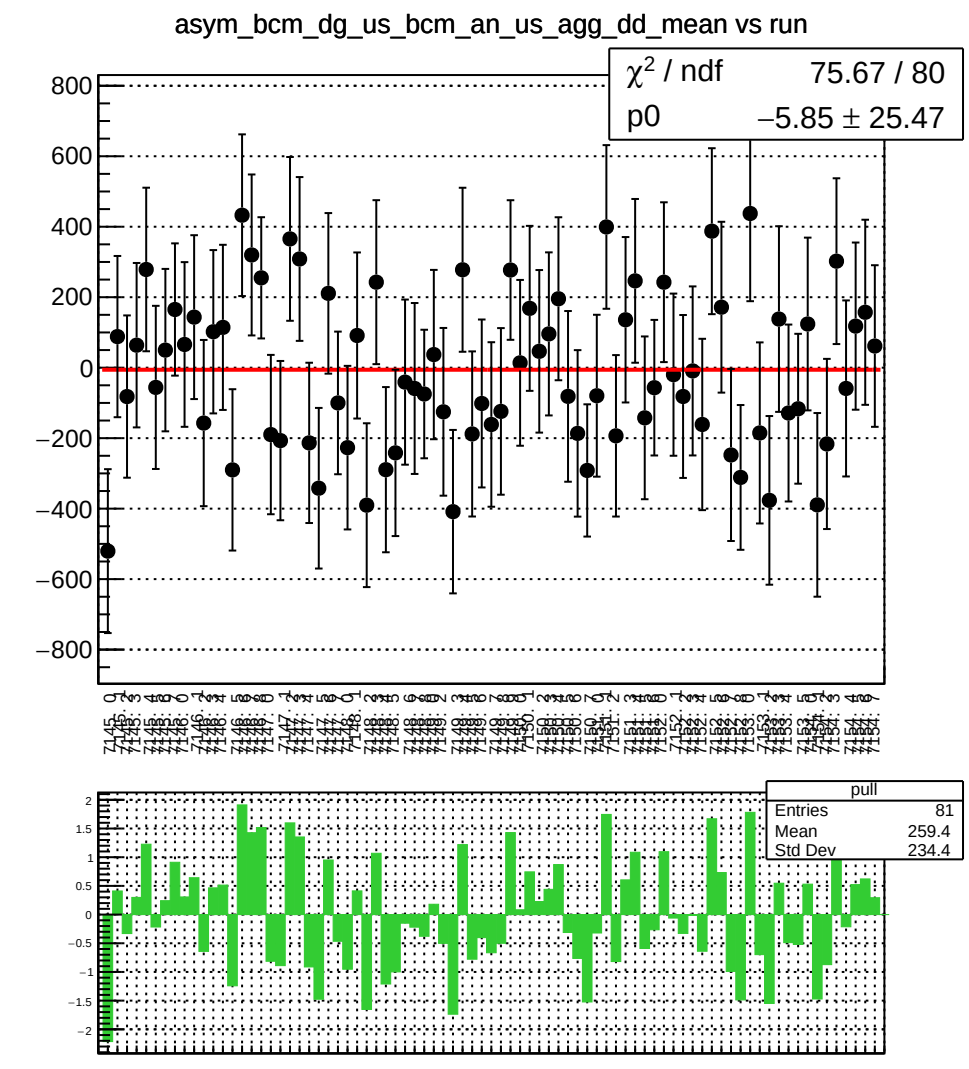

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.987e+04 / 80
p0 205.3 ± 0.1662
600
500
400
300
200

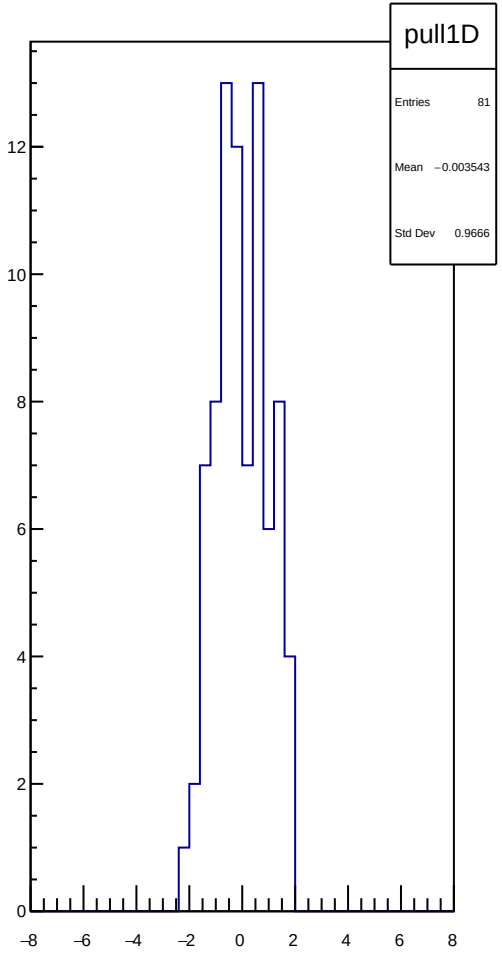

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 89.7 / 80
p0 −4.087 ± 21.22
pull
Entries 81
Mean −196.2
Std Dev 252.2
pull1D
Entries 81
Mean −0.0104
Std Dev 1.052

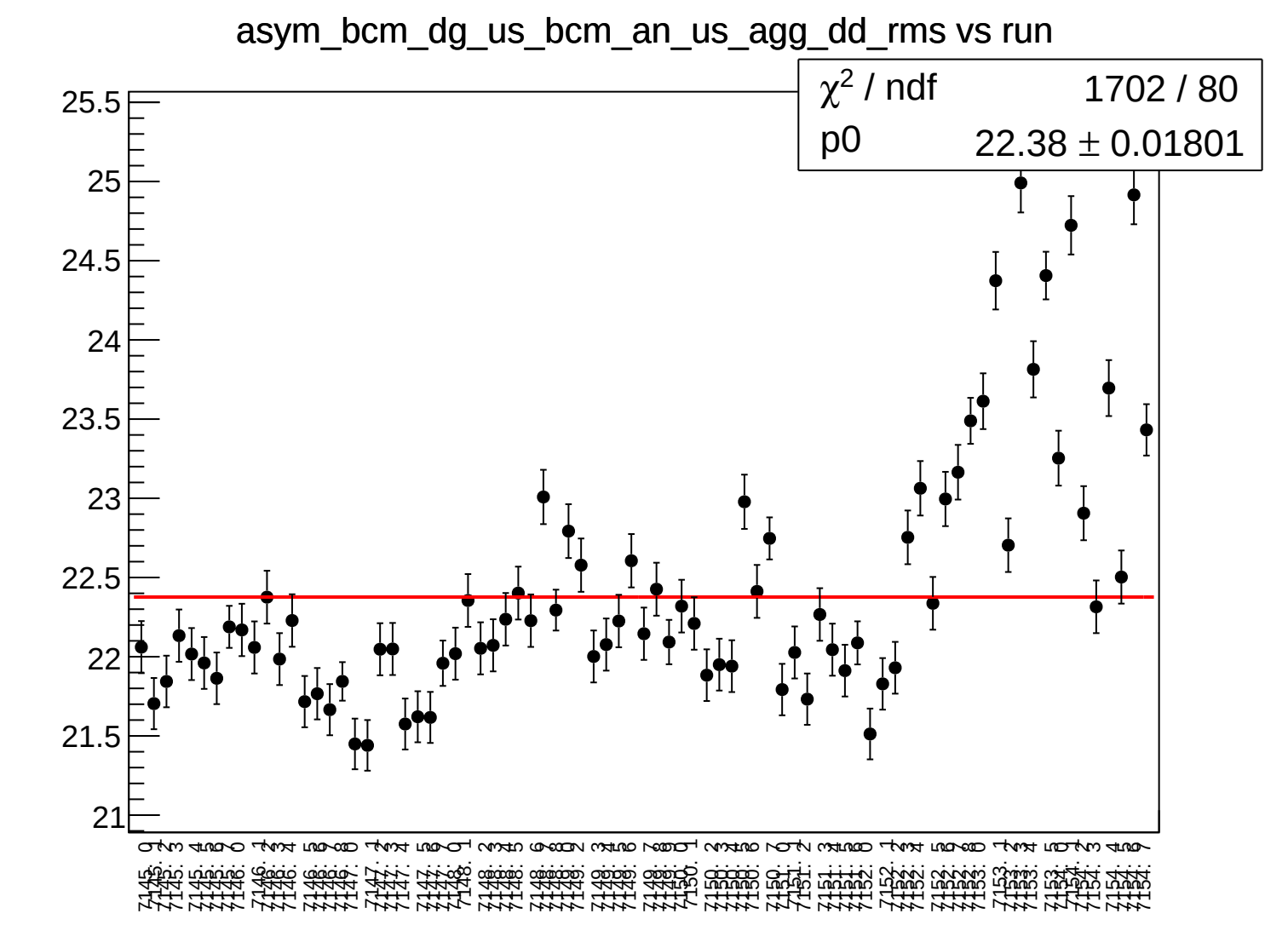

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 6873 / 80
p0 18.62 ± 0.01501
22
21
20
19
18
17
16

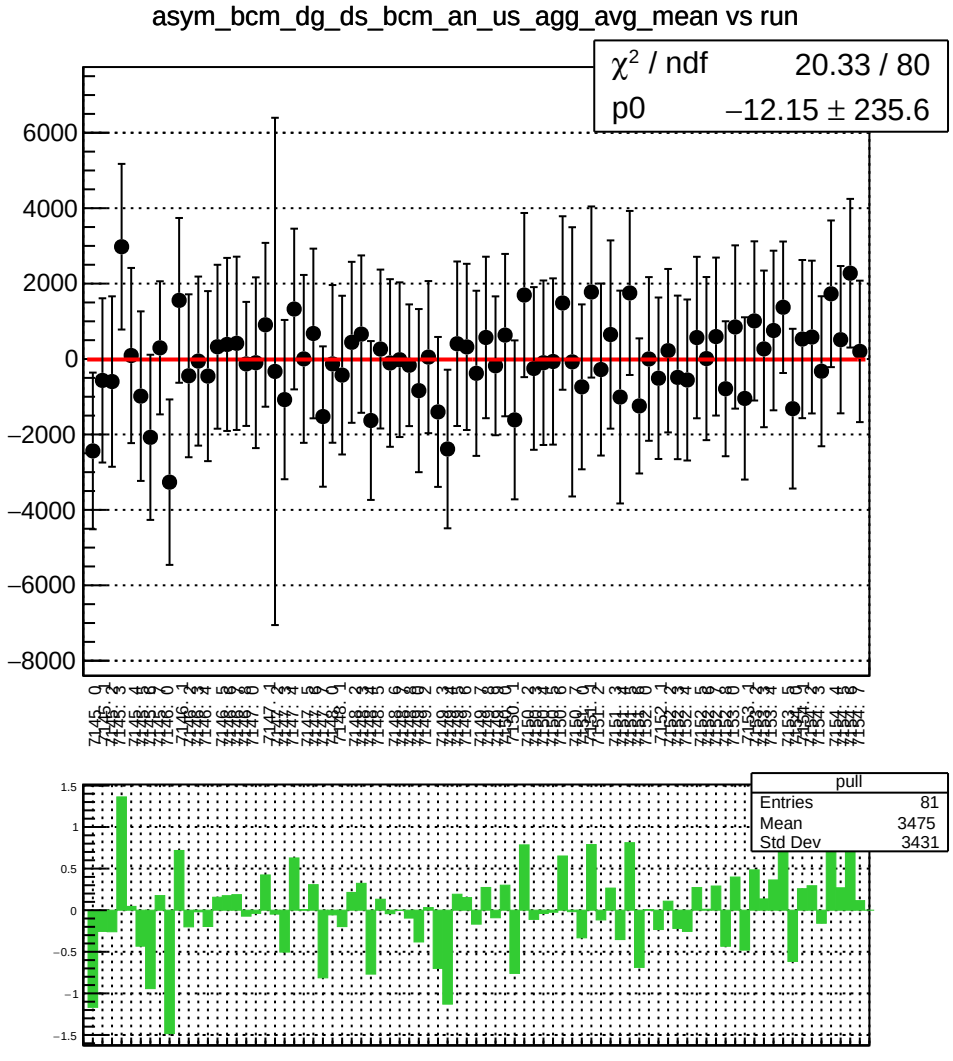

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 19.45 / 80
p0 −16.51 ± 234.7
pull
Entries 81
Mean 1933
Std Dev 1890
pull1D
Entries 81
Mean 0.001365
Std Dev 0.4901

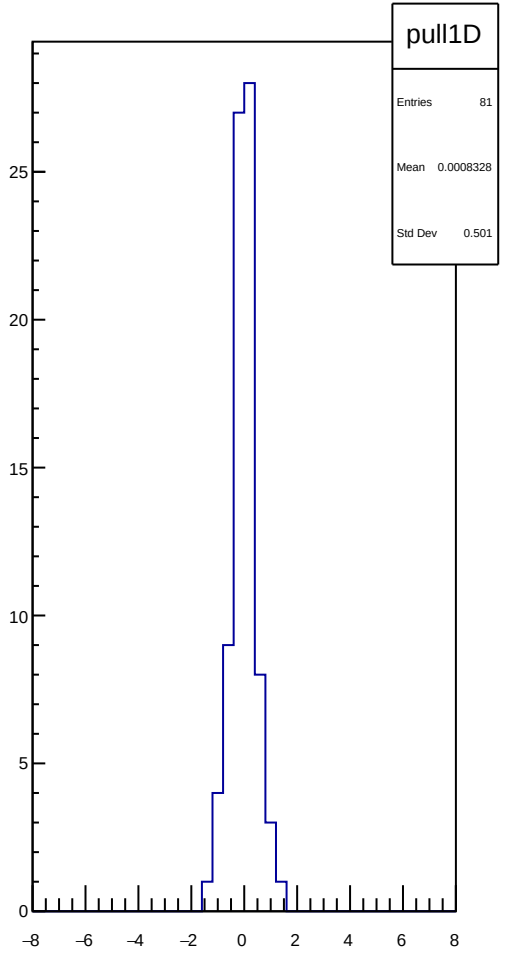

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.969e+04 / 80
p0 205 ± 0.166
600
500
400
300
200

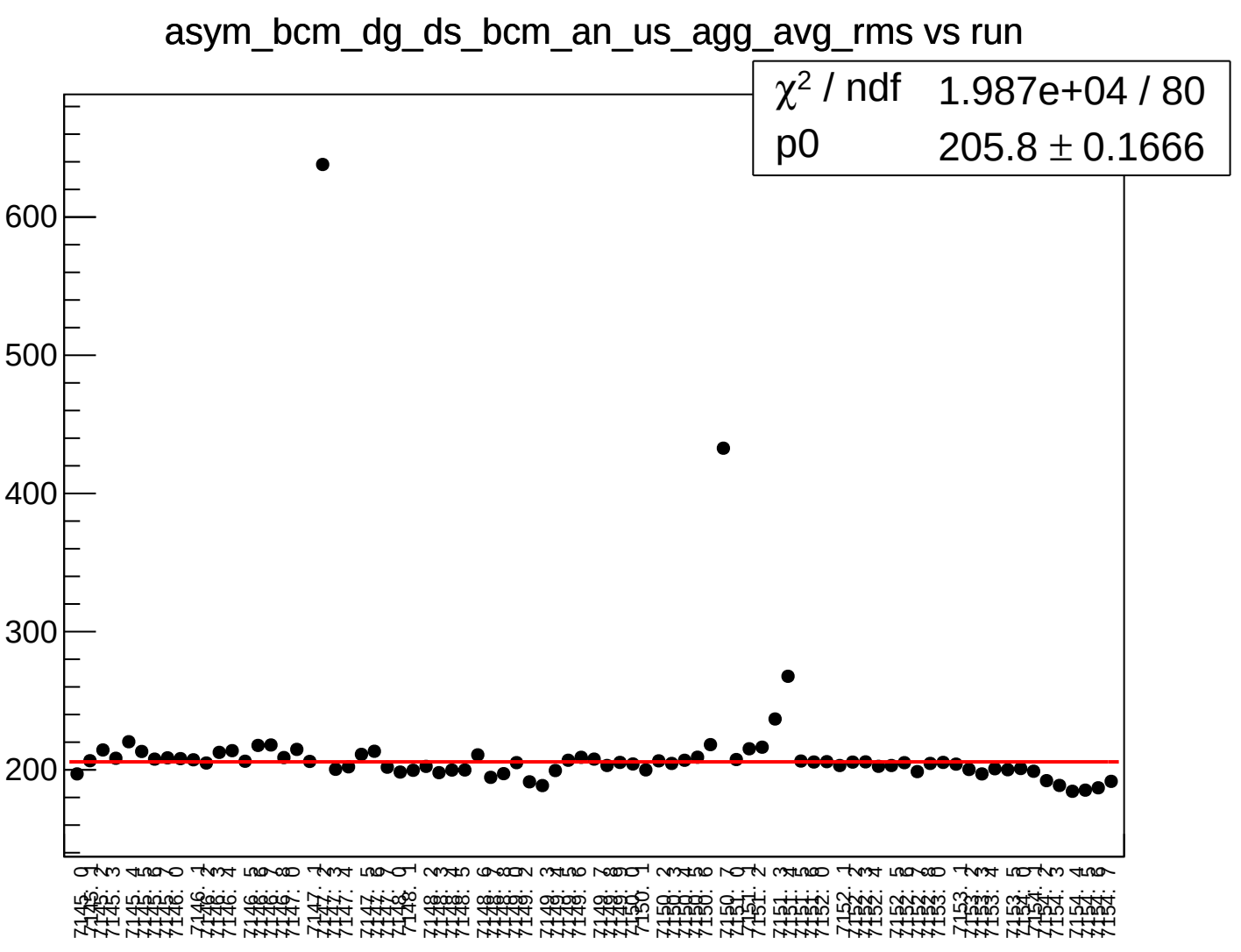

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 75.67 / 80
p0 −5.85 ± 25.47
pull
Entries 81
Mean 259.4
Std Dev 234.4

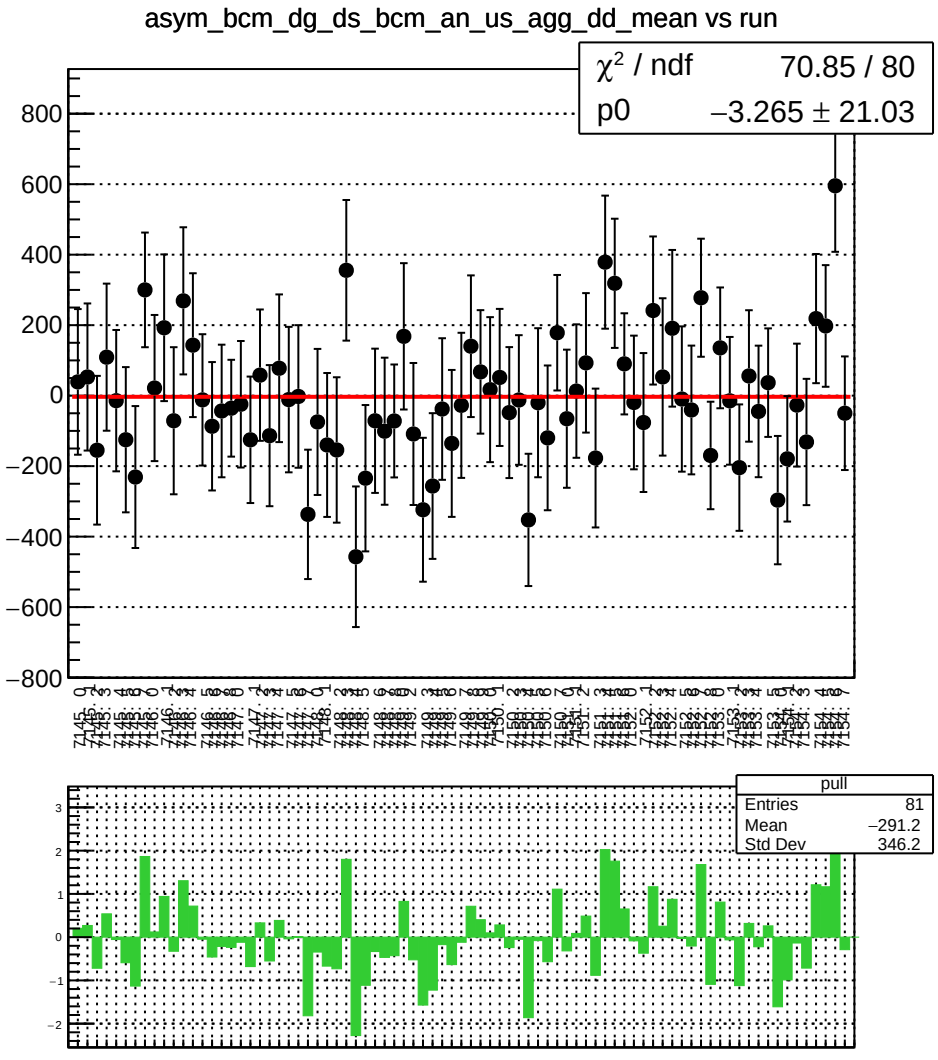

pull1D
Entries 81
Mean −0.003543
Std Dev 0.9666

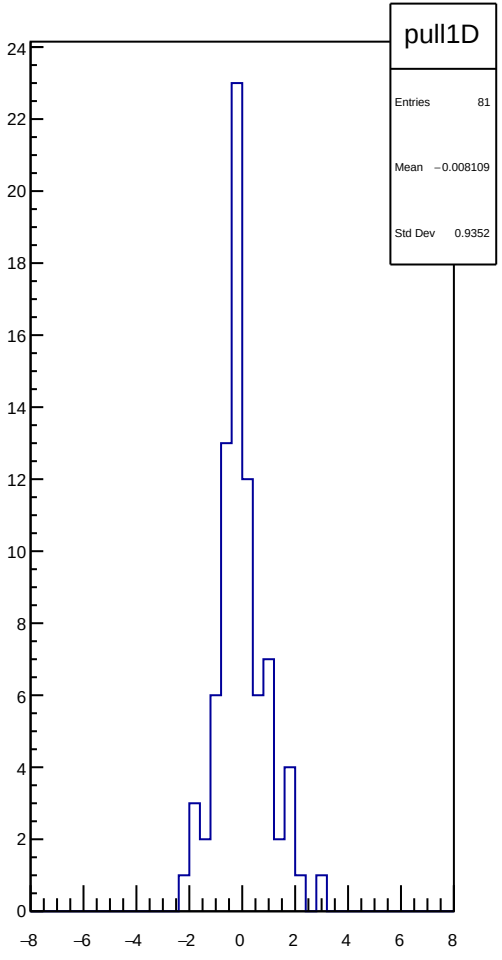

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1702 / 80
p0 22.38 ± 0.01801
25.5
25
24.5
24
23.5
23
22.5
22
21.5
21

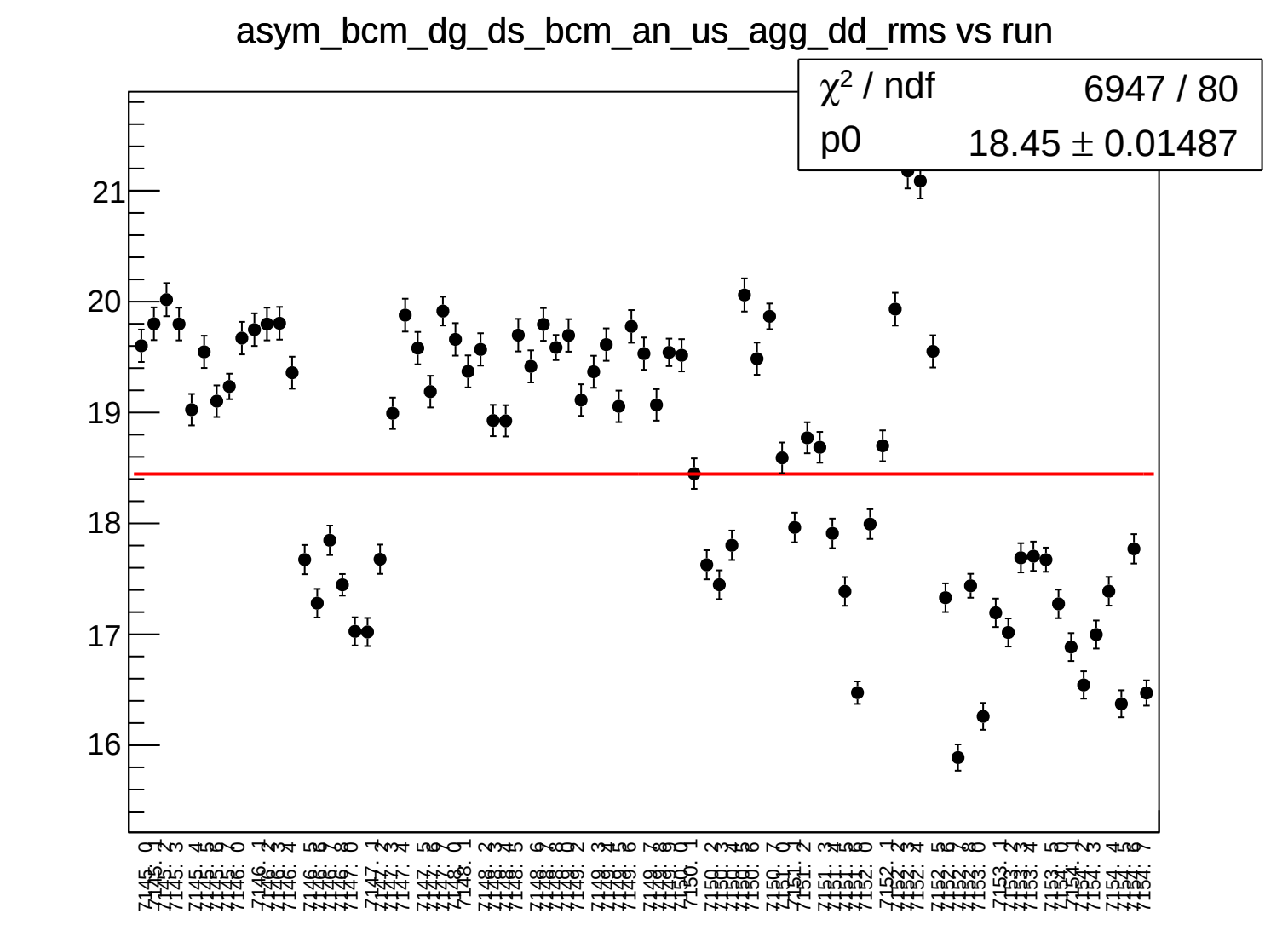

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.33 / 80
p0 −12.15 ± 235.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean 3475
Std Dev 3431
1.5
1
0.5
0
−0.5
−1
−1.5

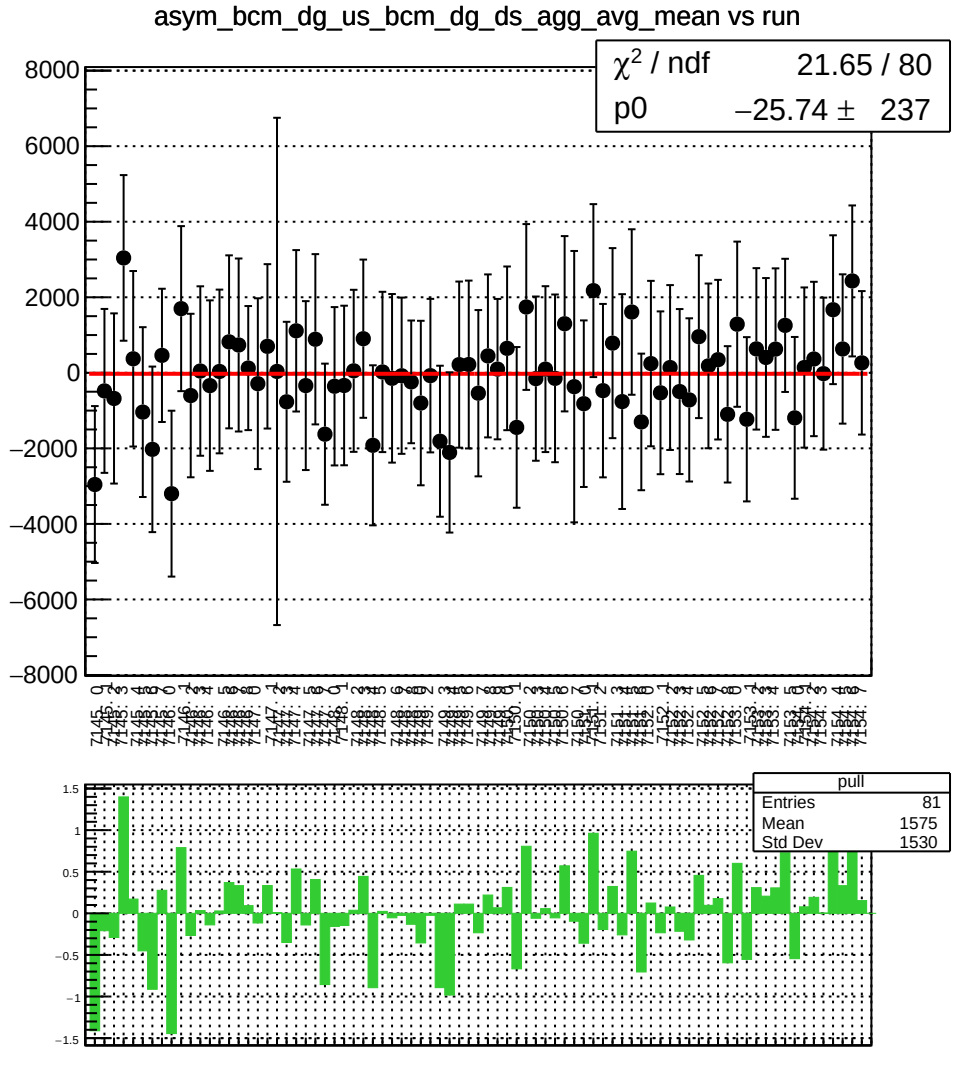

pull1D
Entries 81
Mean 0.0008328
Std Dev 0.501
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

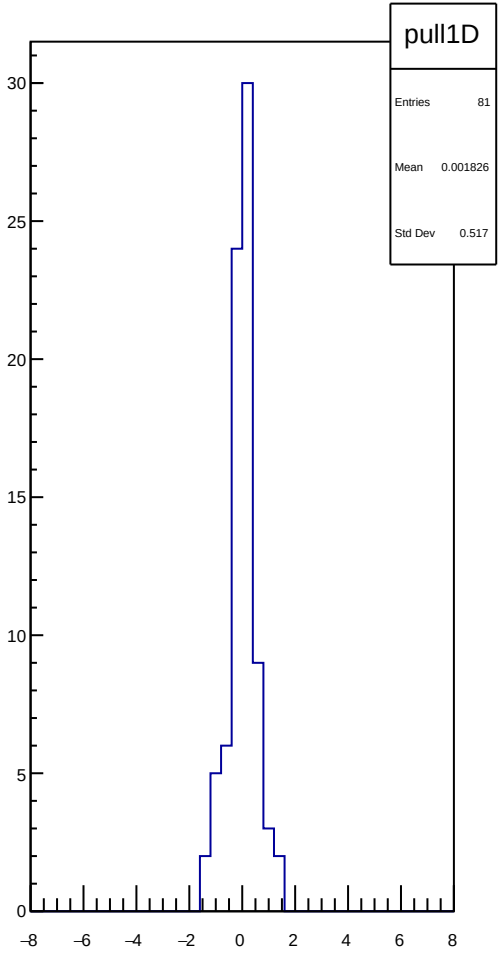

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.987e+04 / 80
p0 205.8 ± 0.1666
600
500
400
300
200

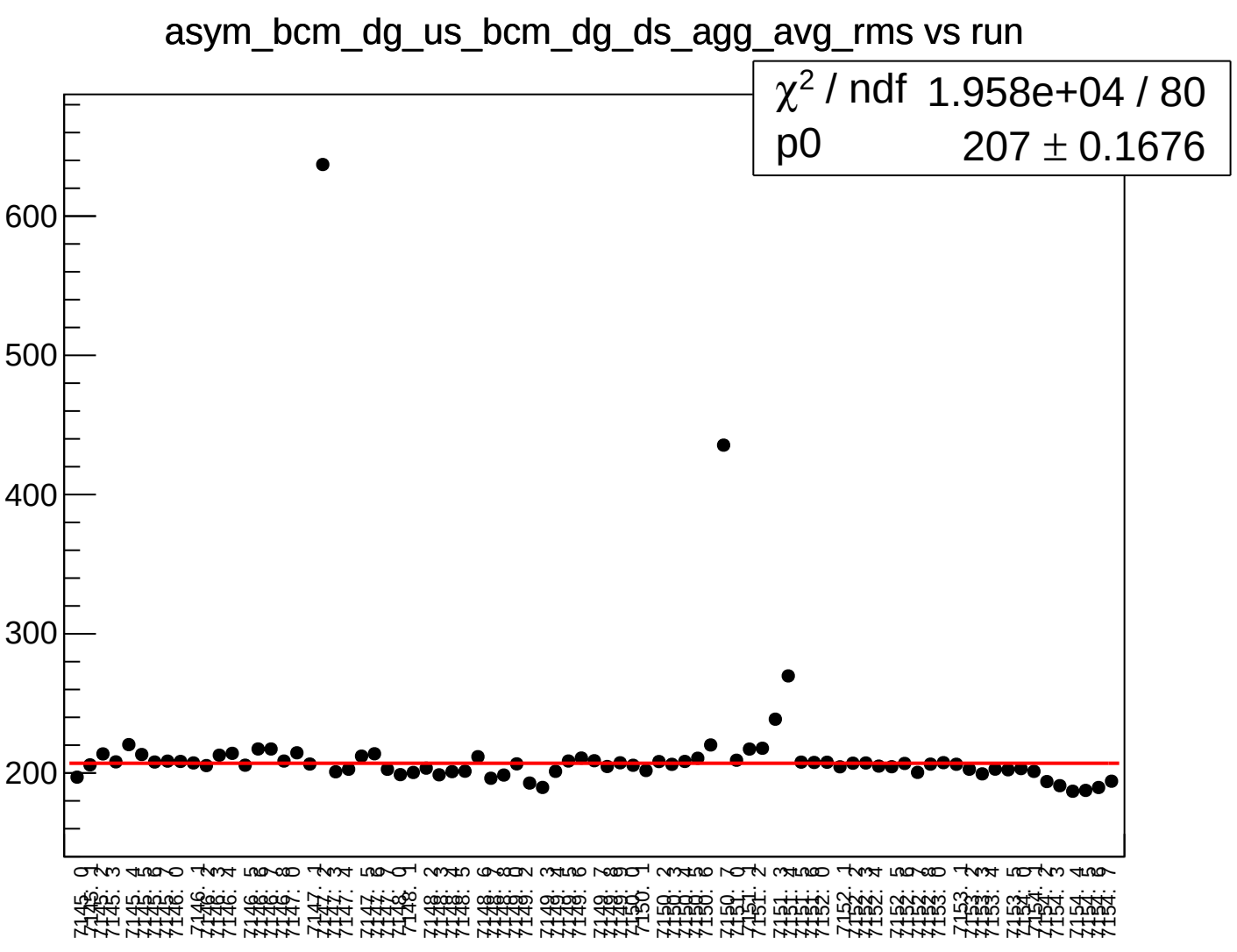

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 70.85 / 80
p0 −3.265 ± 21.03
pull
Entries 81
Mean −291.2
Std Dev 346.2

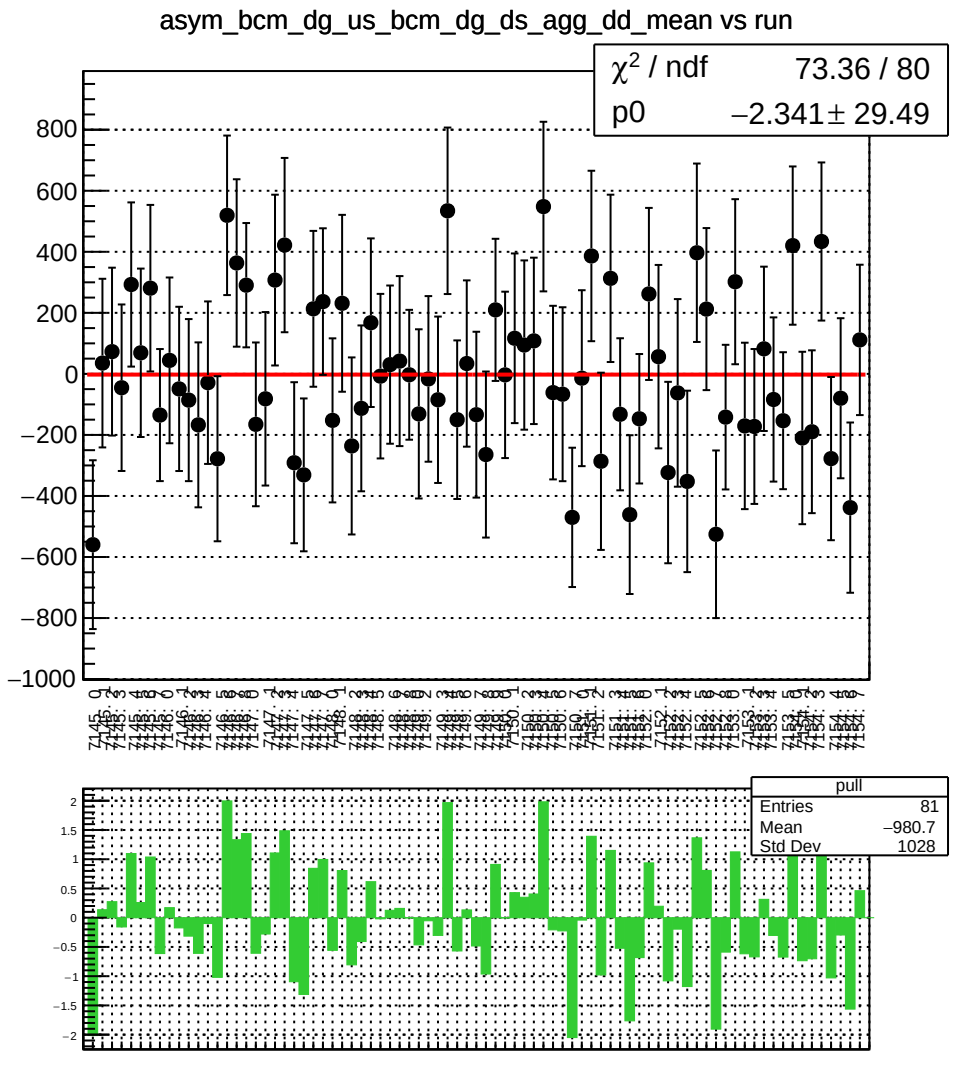

pull1D
Entries 81
Mean −0.008109
Std Dev 0.9352

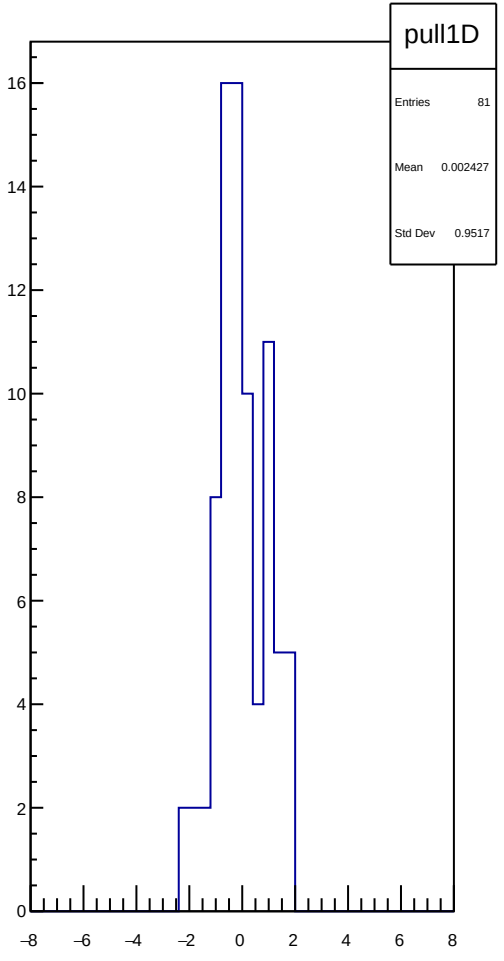

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 6947 / 80
p0 18.45 ± 0.01487
21
20
19
18
17
16

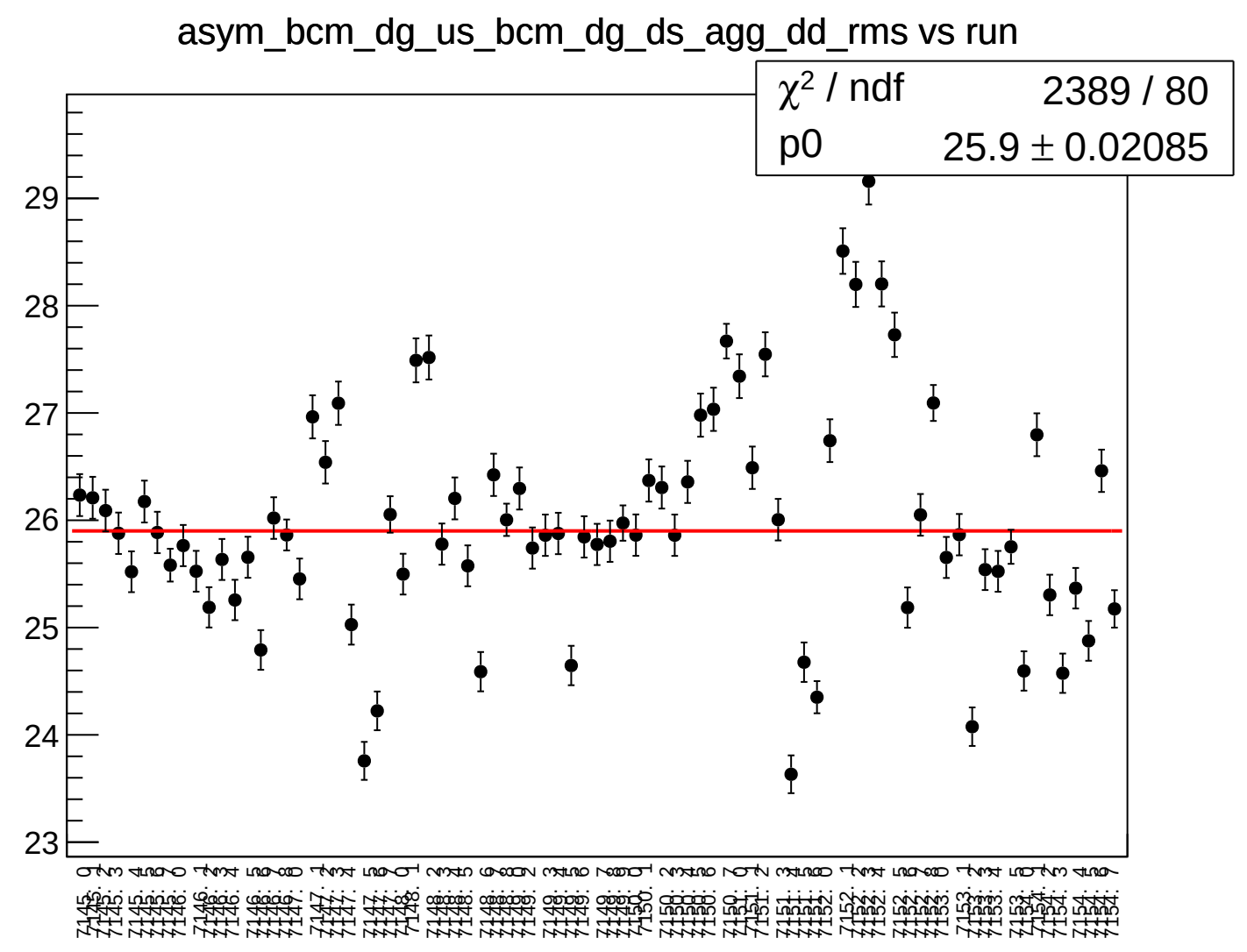

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 21.65 / 80
p0 −25.74 ± 237
pull
Entries 81
Mean 1575
Std Dev 1530

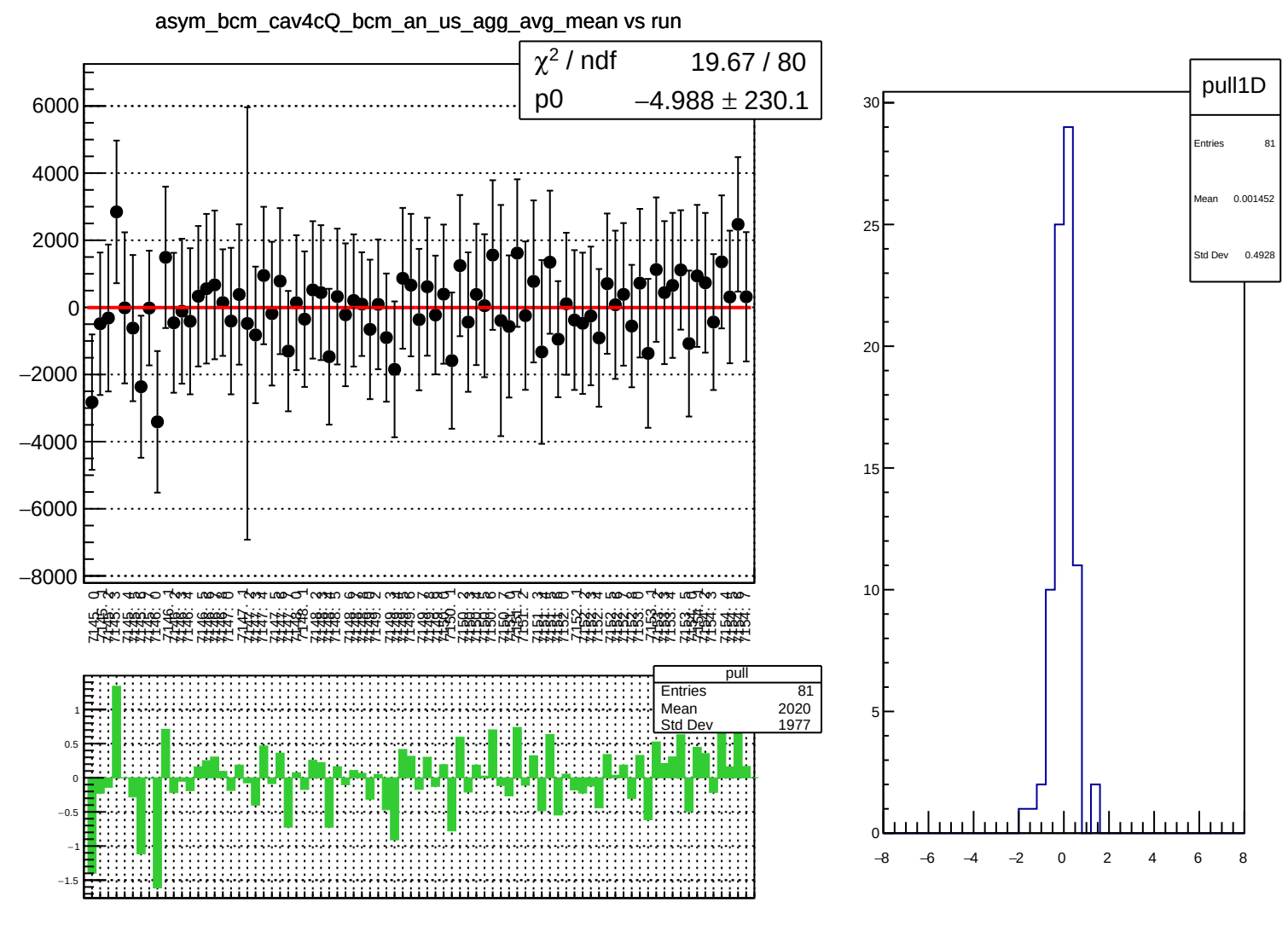

pull1D
Entries 81
Mean 0.001826
Std Dev 0.517

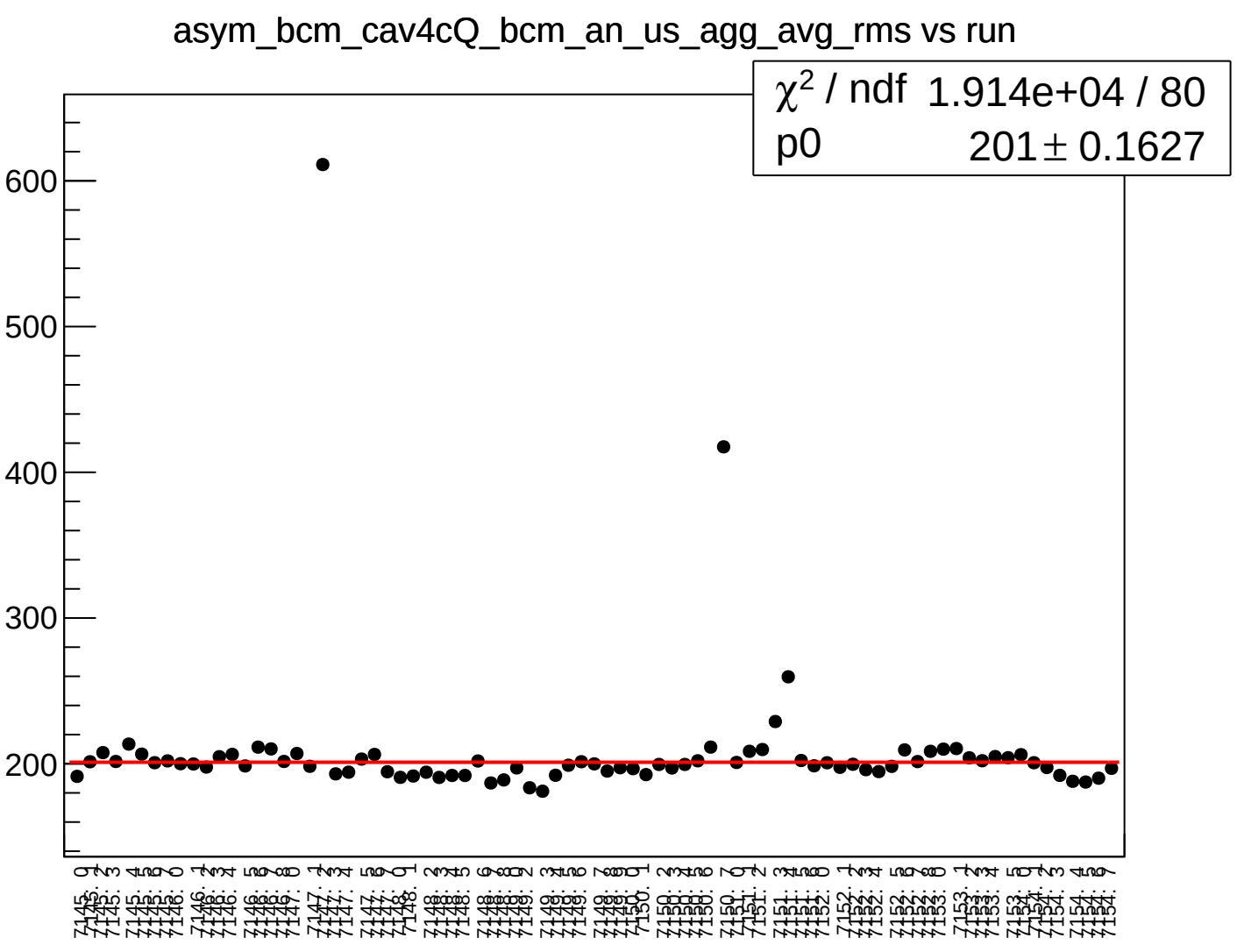

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.958e+04 / 80
p0 207 ± 0.1676
600
500
400
300
200

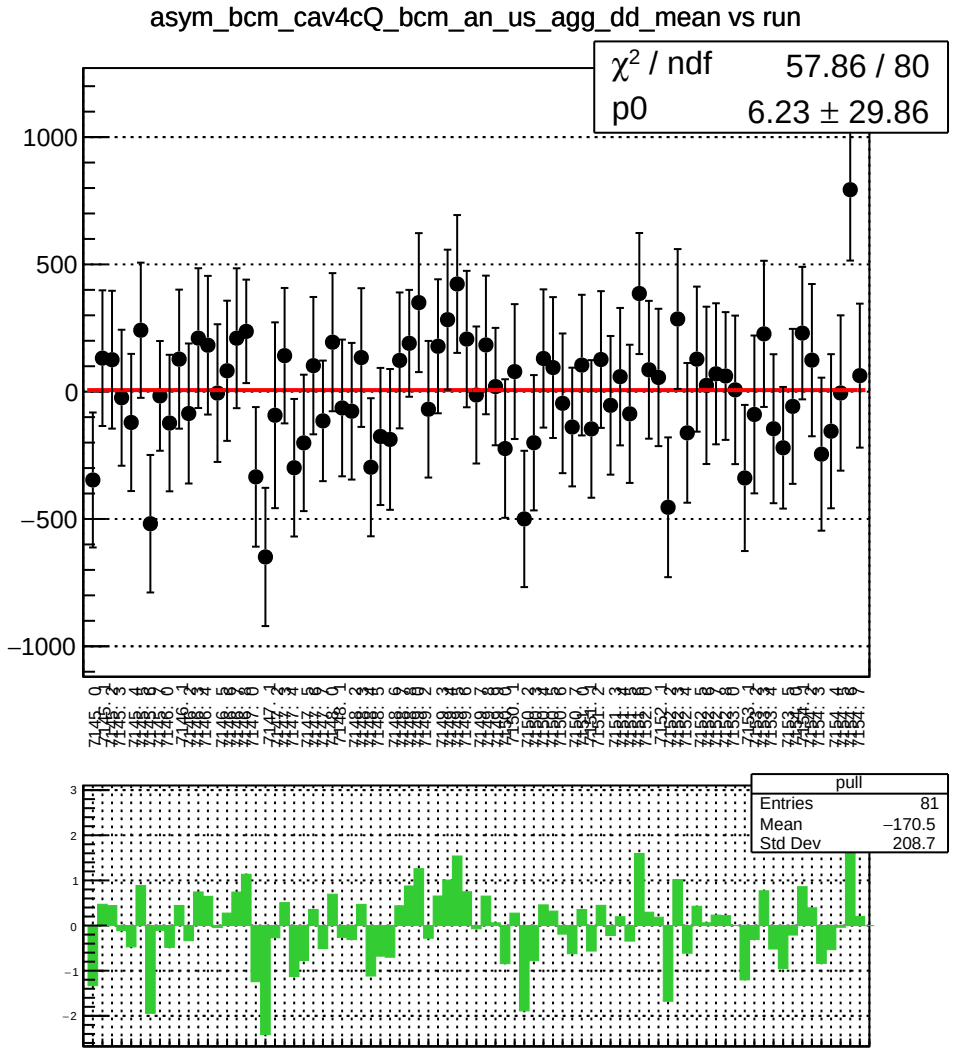

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 73.36 / 80
p0 −2.341 ± 29.49
pull
Entries 81
Mean −980.7
Std Dev 1028

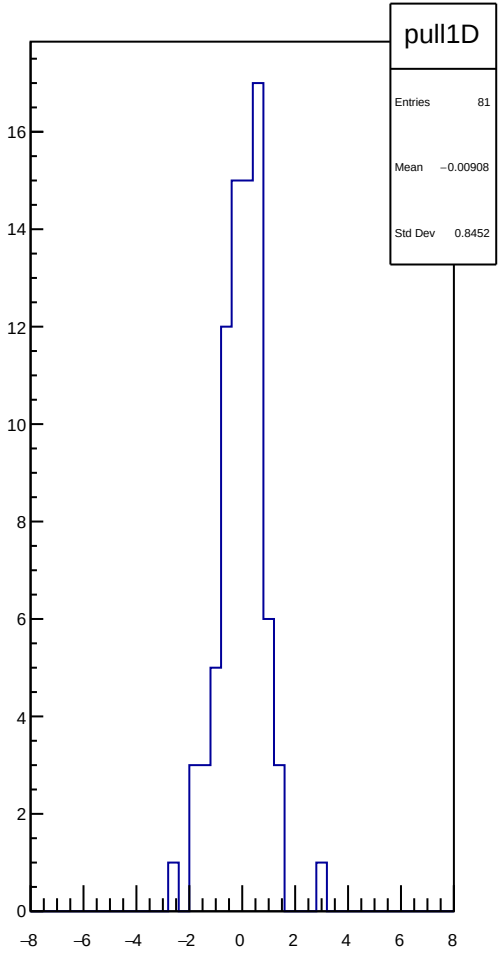

pull1D
Entries 81
Mean 0.002427
Std Dev 0.9517

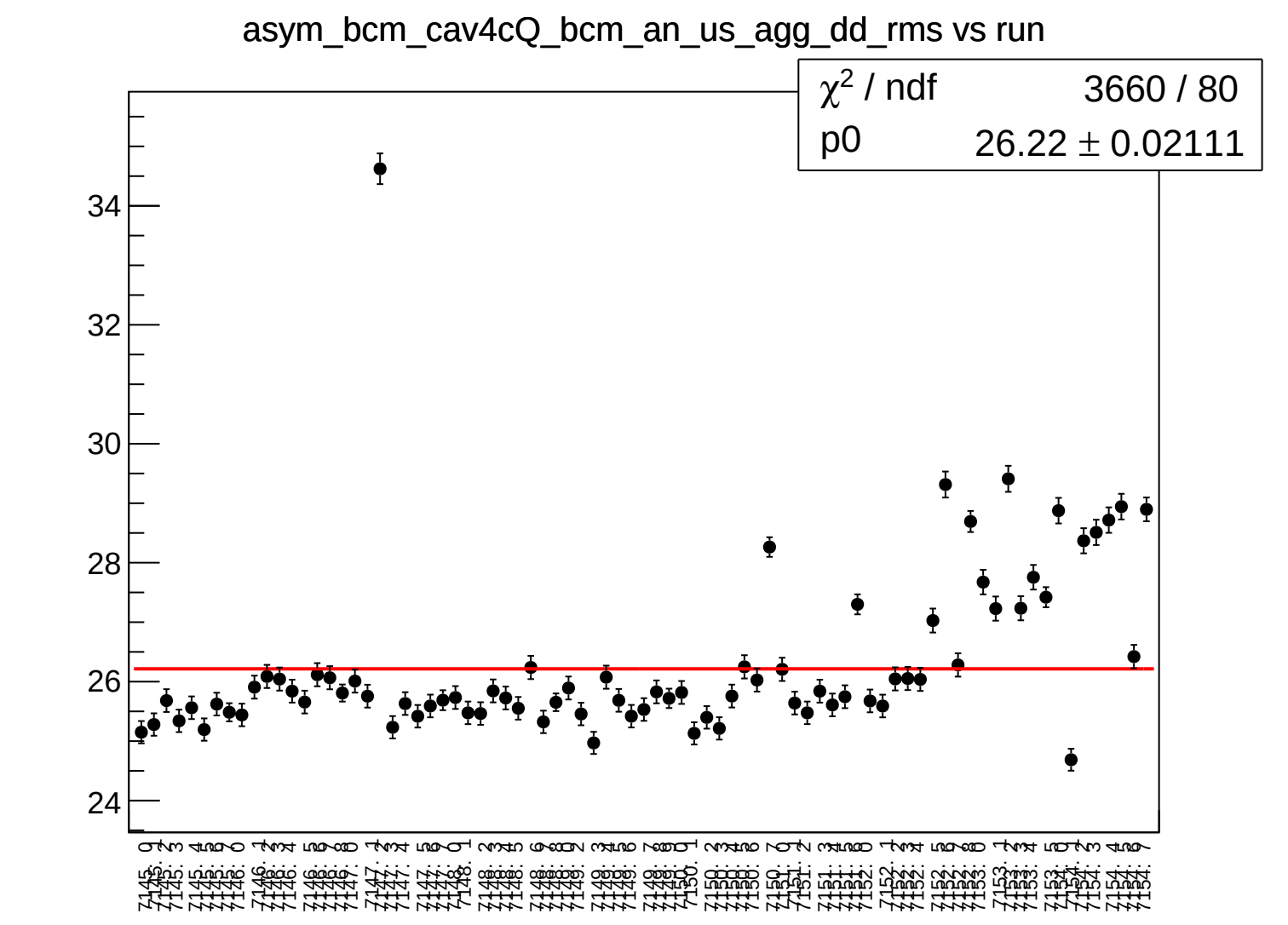

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2389 / 80
p0 25.9 ± 0.02085
29
28
27
26
25
24
23

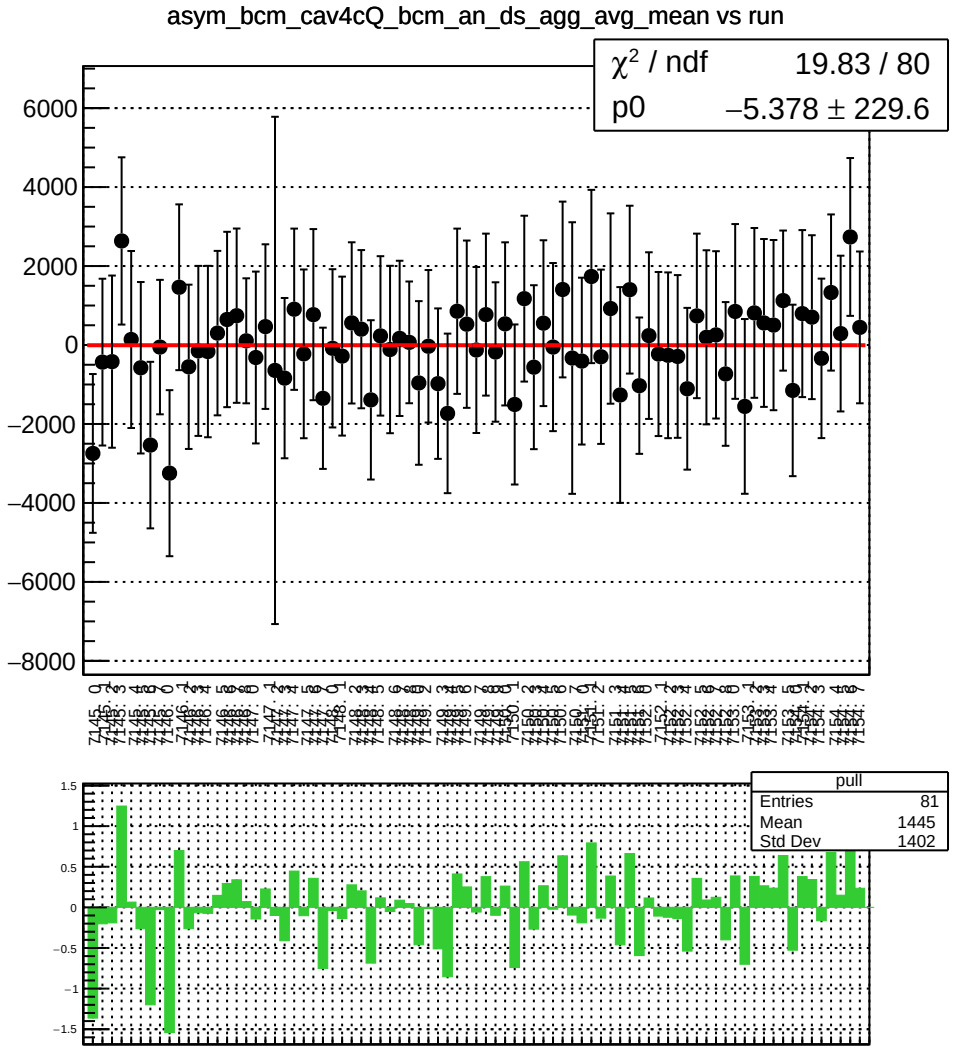

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 19.67 / 80
p0 −4.988 ± 230.1
pull
Entries 81
Mean 2020
Std Dev 1977
pull1D
Entries 81
Mean 0.001452
Std Dev 0.4928

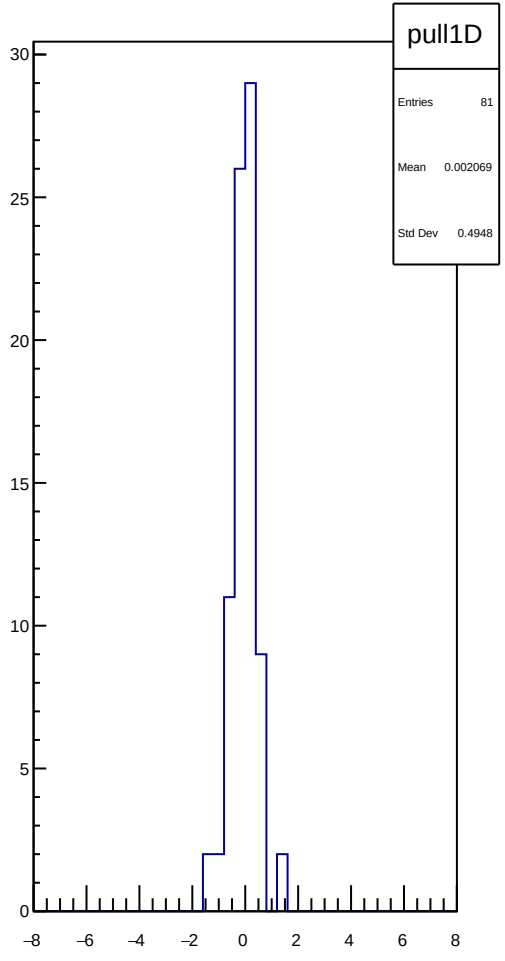

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ^2 / ndf 1.914e+04 / 80
p0 201 ± 0.1627
600
500
400
300
200

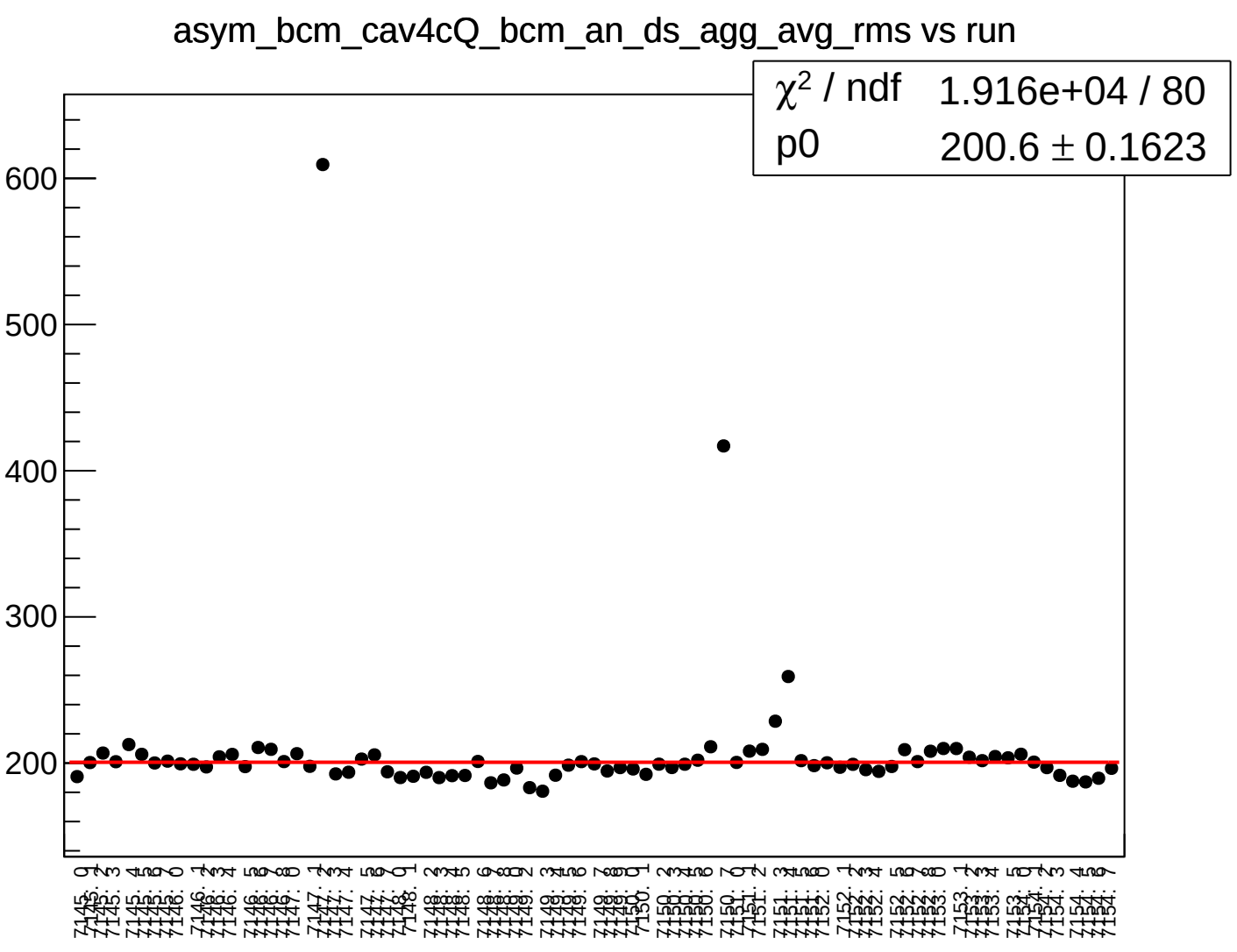

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 57.86 / 80
p0 6.23 ± 29.86
1000
500
0
−500
−1000
pull
Entries 81
Mean −170.5
Std Dev 208.7
3
2
1
0
−1
−2

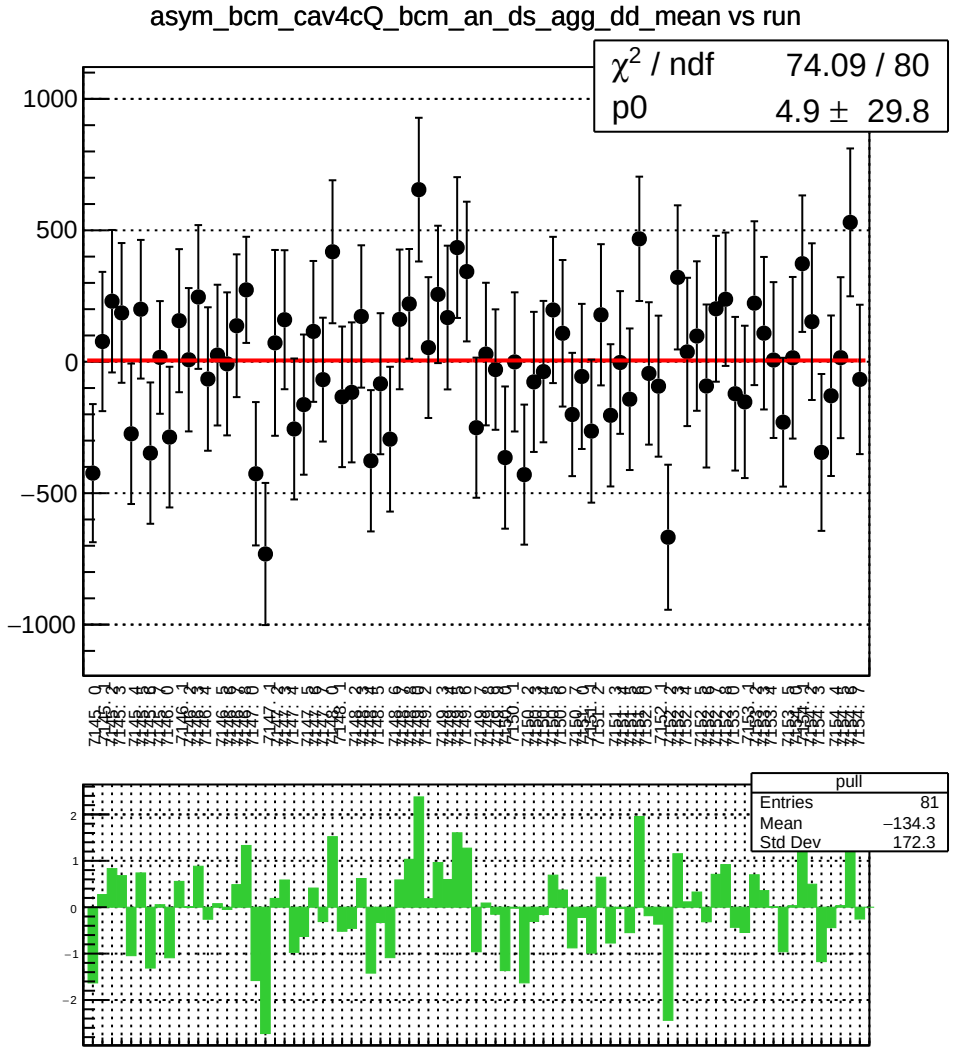

pull1D
Entries 81
Mean −0.00908
Std Dev 0.8452
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

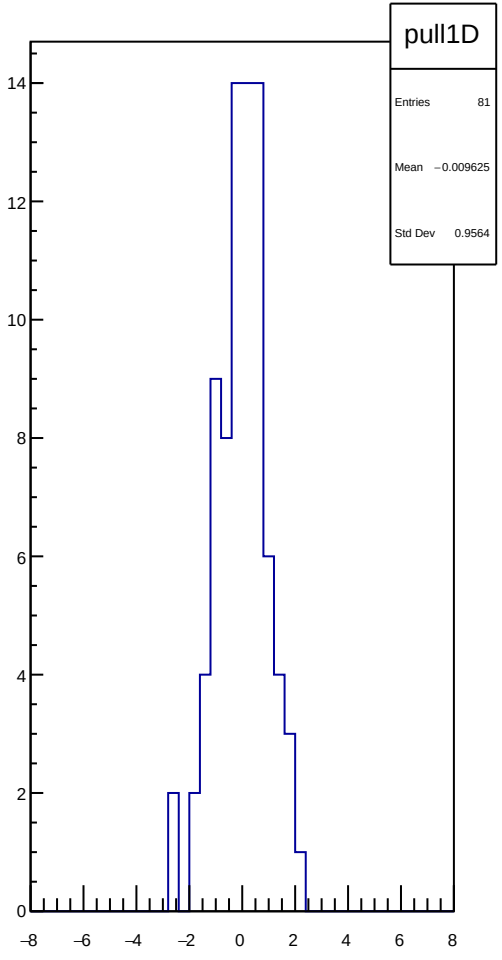

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3660 / 80
p0 26.22 ± 0.02111
34
32
30
28
26
24

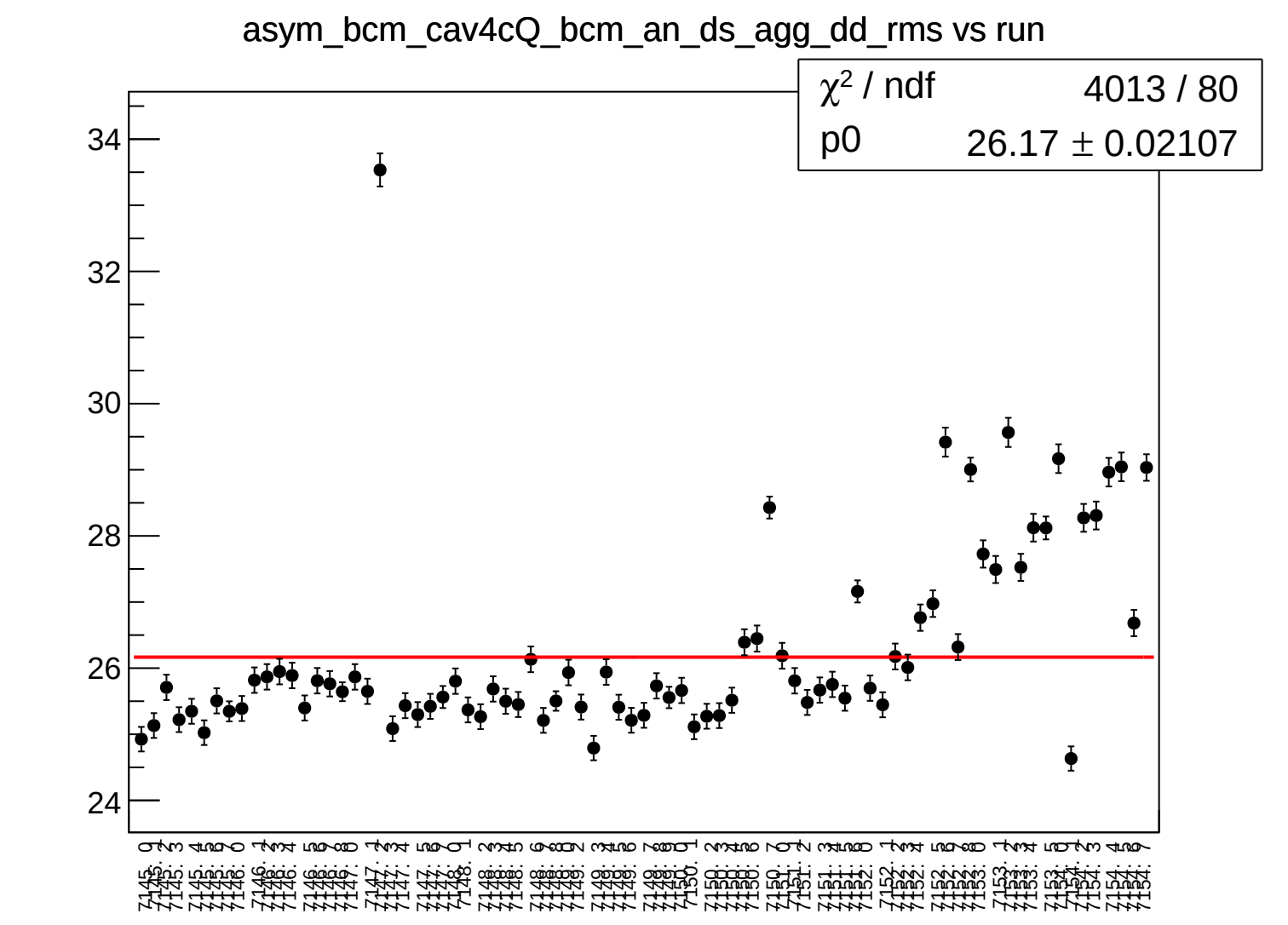

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.83 / 80
p0 −5.378 ± 229.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean 1445
Std Dev 1402
1.5
1
0.5
0
−0.5
−1
−1.5

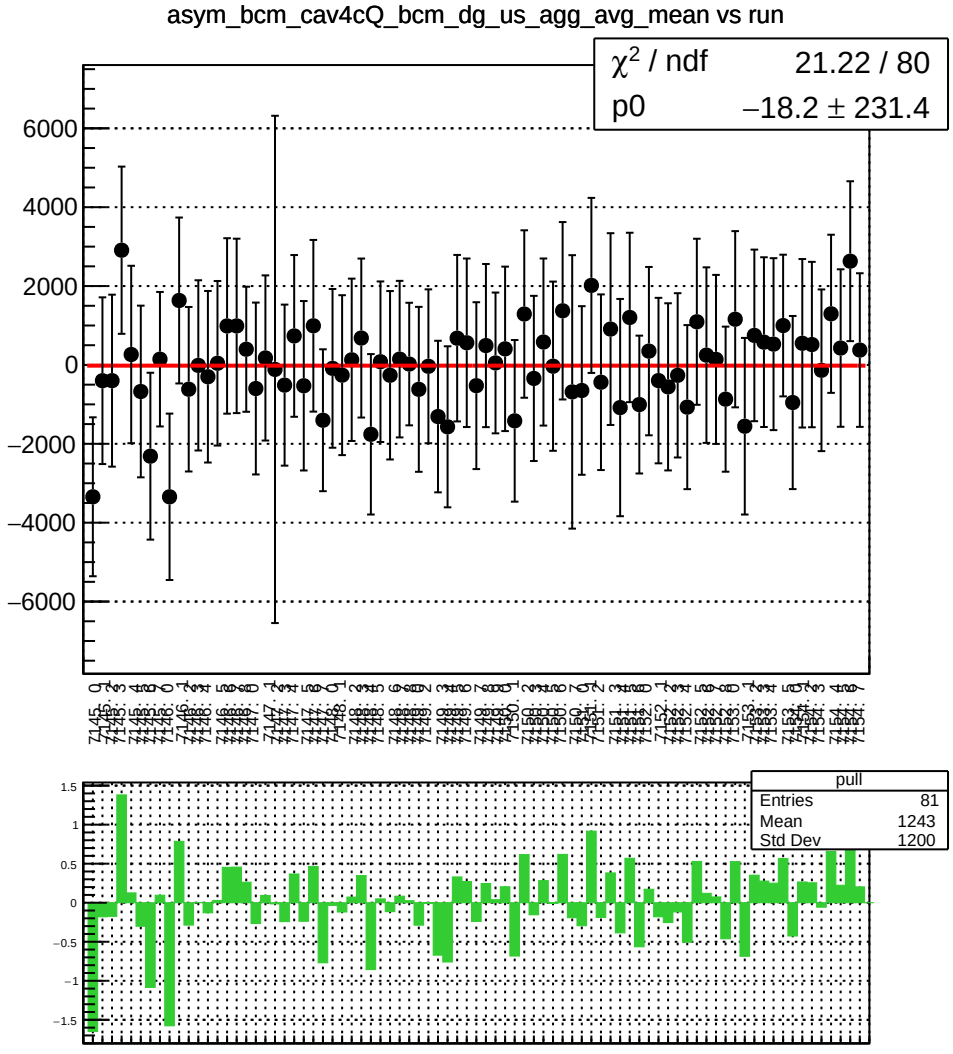

pull1D
Entries 81
Mean 0.002069
Std Dev 0.4948
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

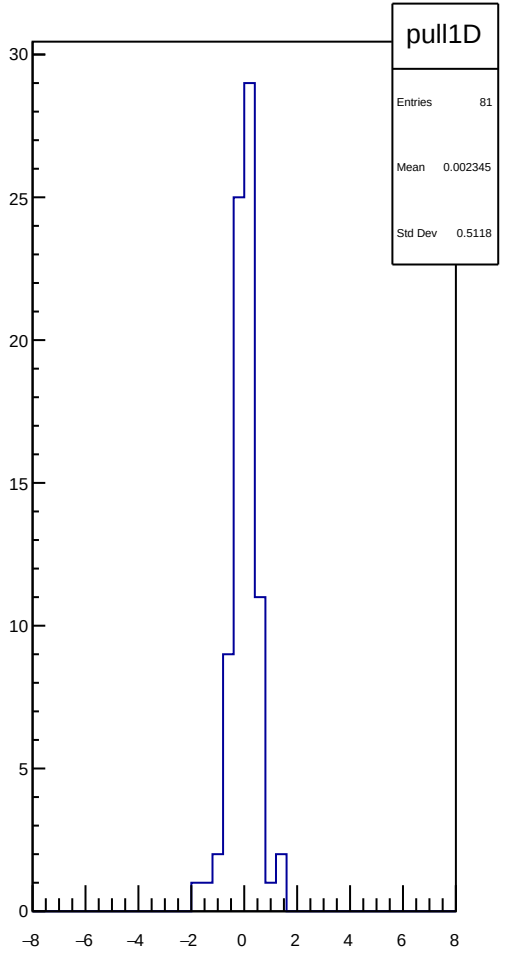

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.916e+04 / 80
p0 200.6 ± 0.1623
600
500
400
300
200

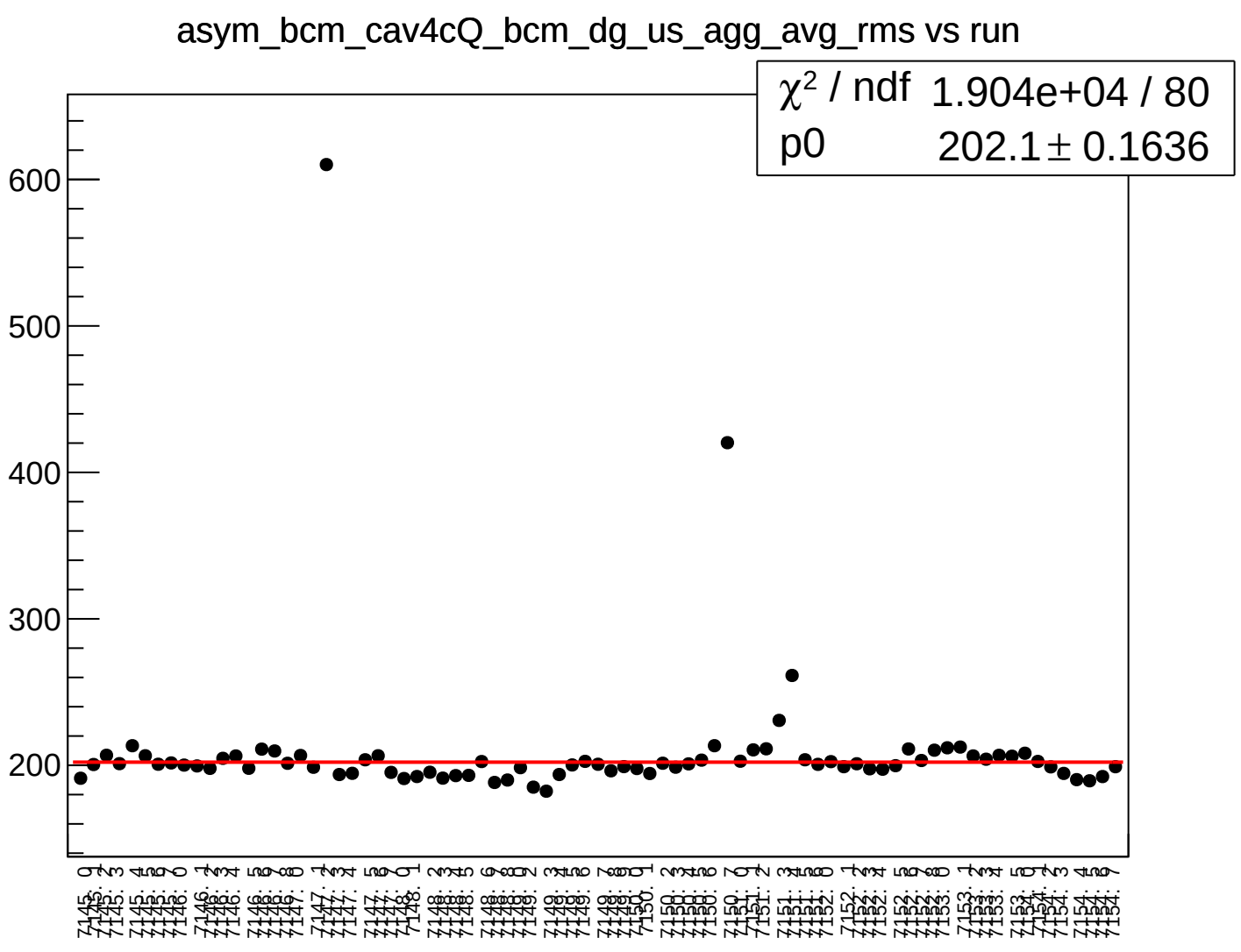

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 74.09 / 80
p0 4.9 ± 29.8
1000
500
0
−500
−1000
pull
Entries 81
Mean −134.3
Std Dev 172.3
2
1
0
−1

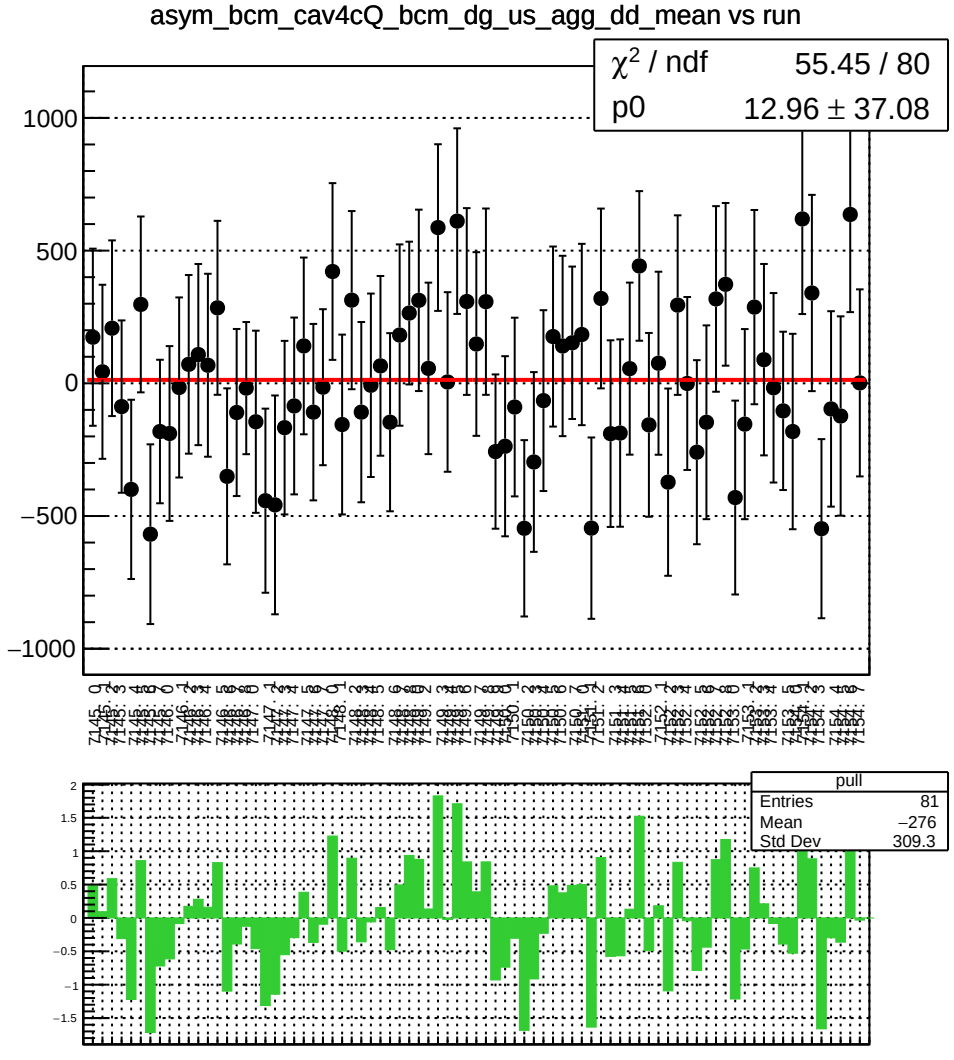

pull1D
Entries 81
Mean −0.009625
Std Dev 0.9564
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

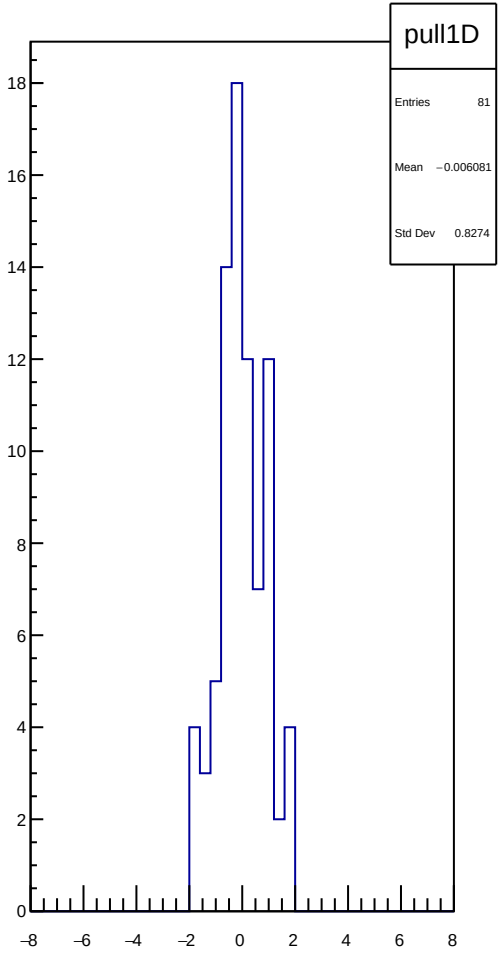

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4013 / 80
p0 26.17 ± 0.02107
34
32
30
28
26
24

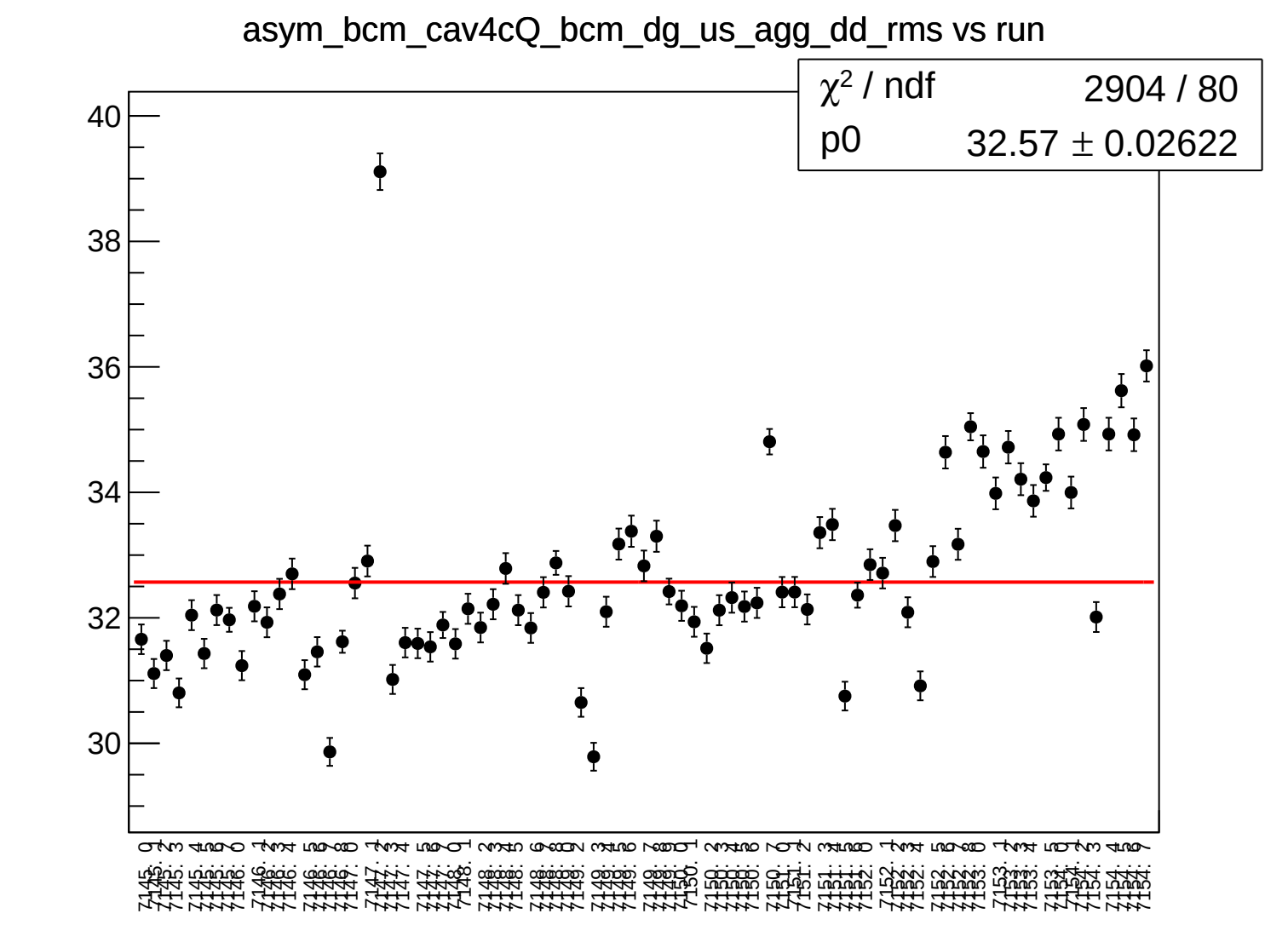

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 21.22 / 80
p0 −18.2 ± 231.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 1243
Std Dev 1200
1.5
1
0.5
0
−0.5
−1
−1.5

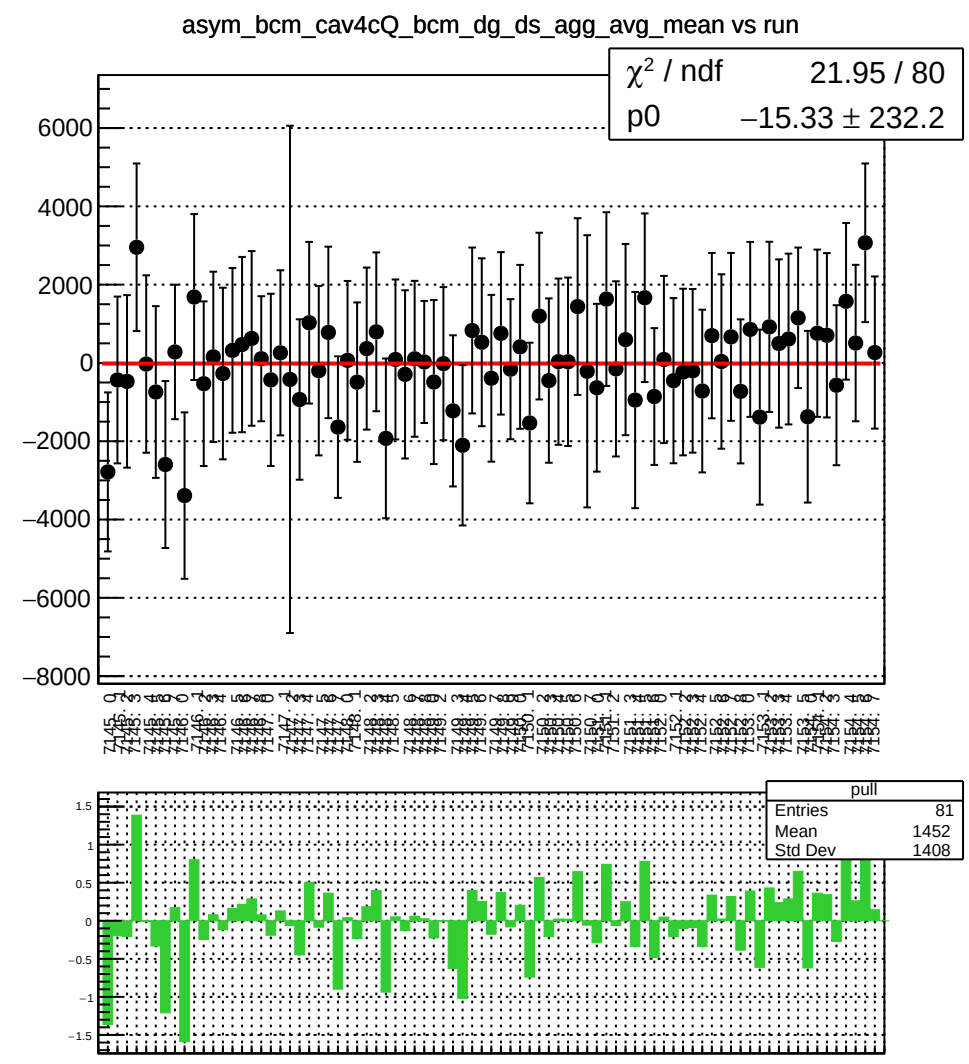

pull1D
Entries 81
Mean 0.002345
Std Dev 0.5118
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

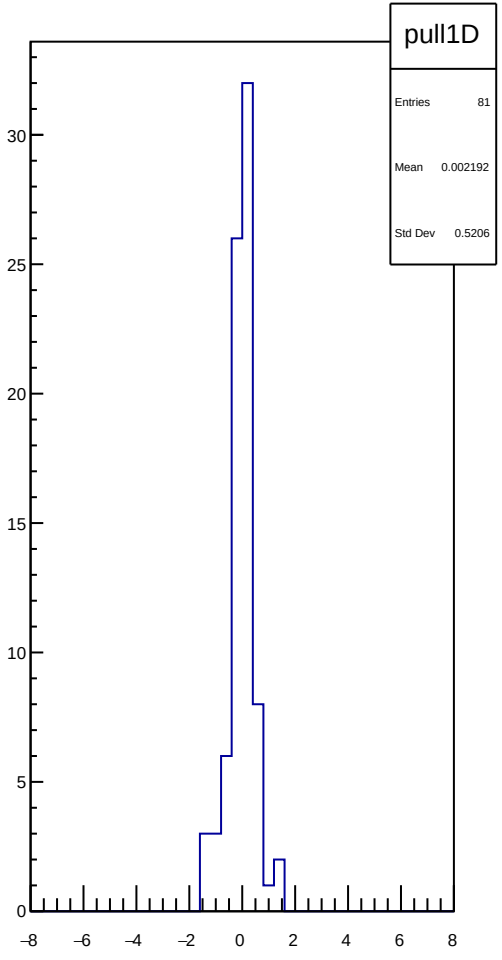

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.904e+04 / 80
p0 202.1 ± 0.1636
600
500
400
300
200

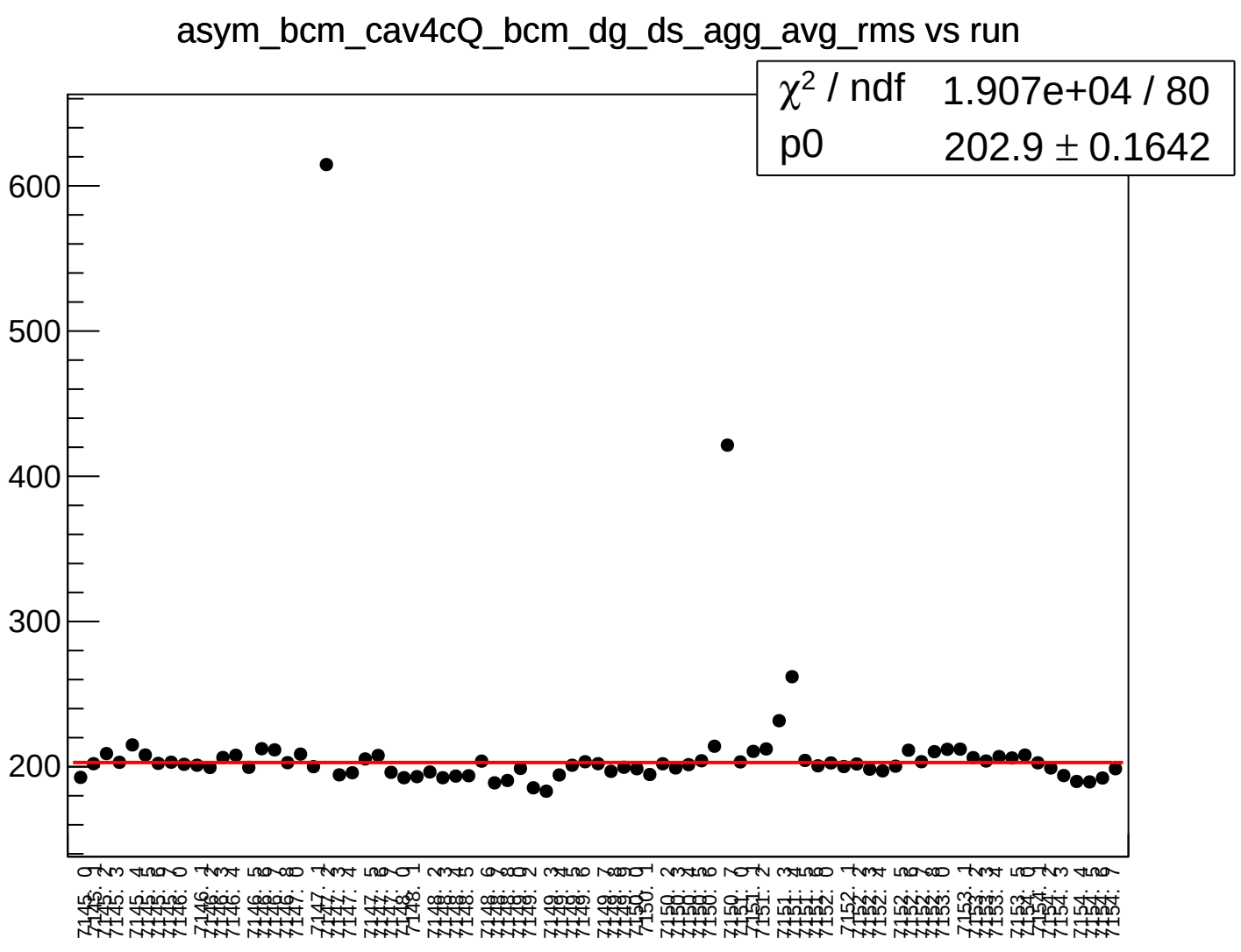

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 55.45 / 80
p0 12.96 ± 37.08
pull
Entries 81
Mean −276
Std Dev 309.3

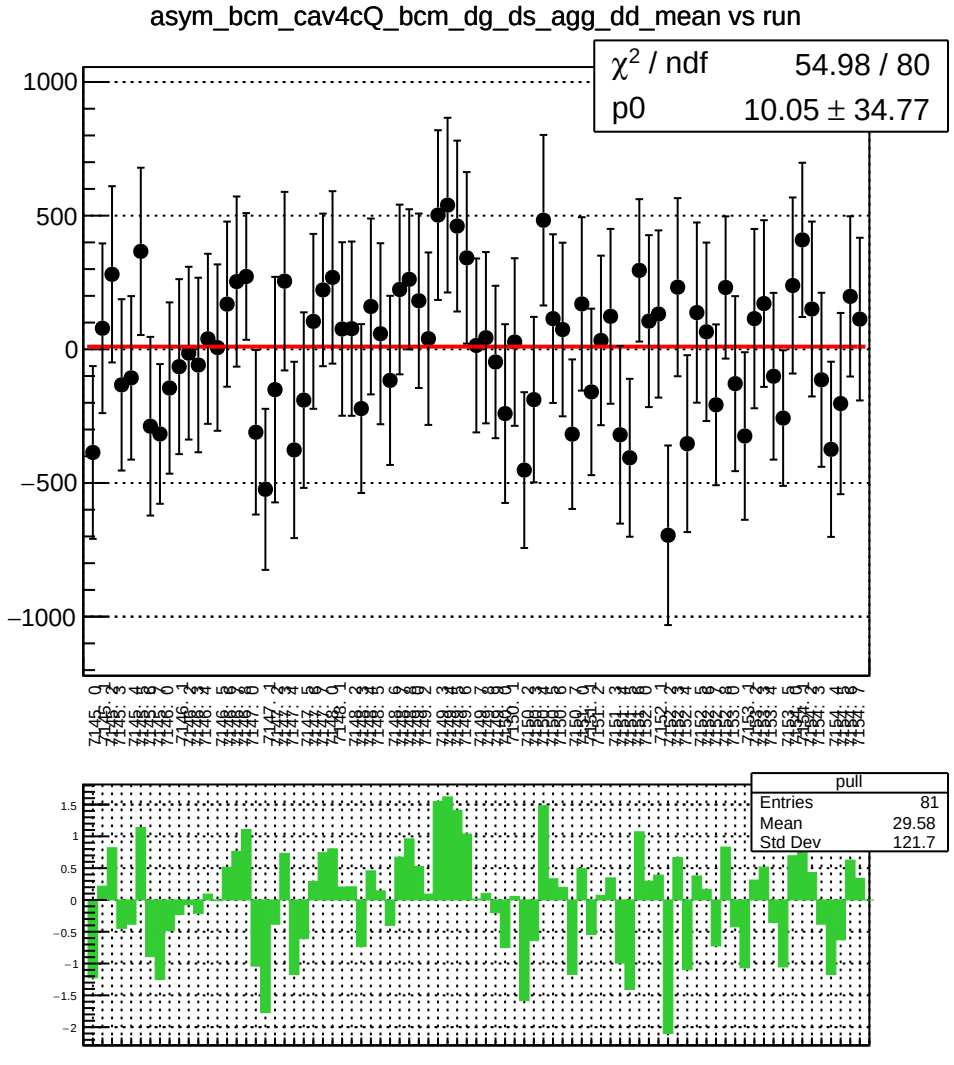

pull1D
Entries 81
Mean −0.006081
Std Dev 0.8274

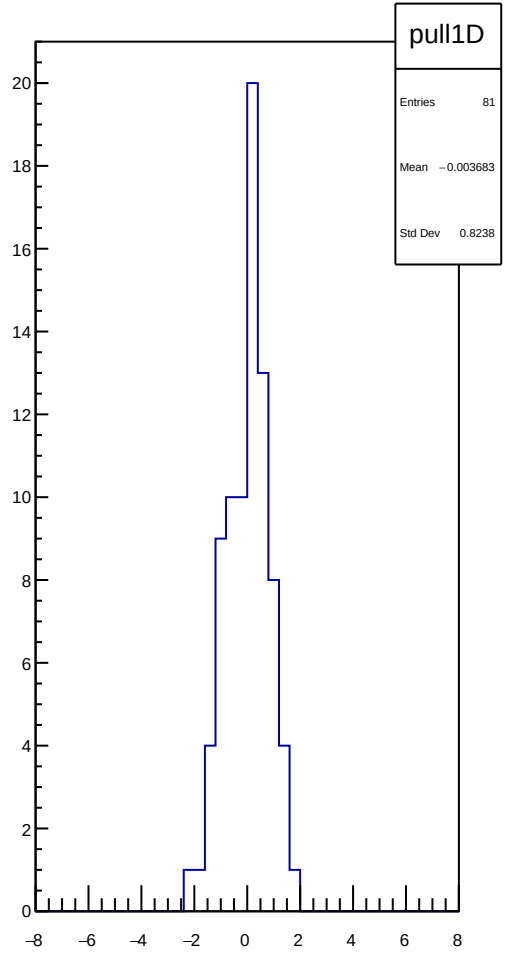

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2904 / 80
p0 32.57 ± 0.02622
40
38
36
34
32
30

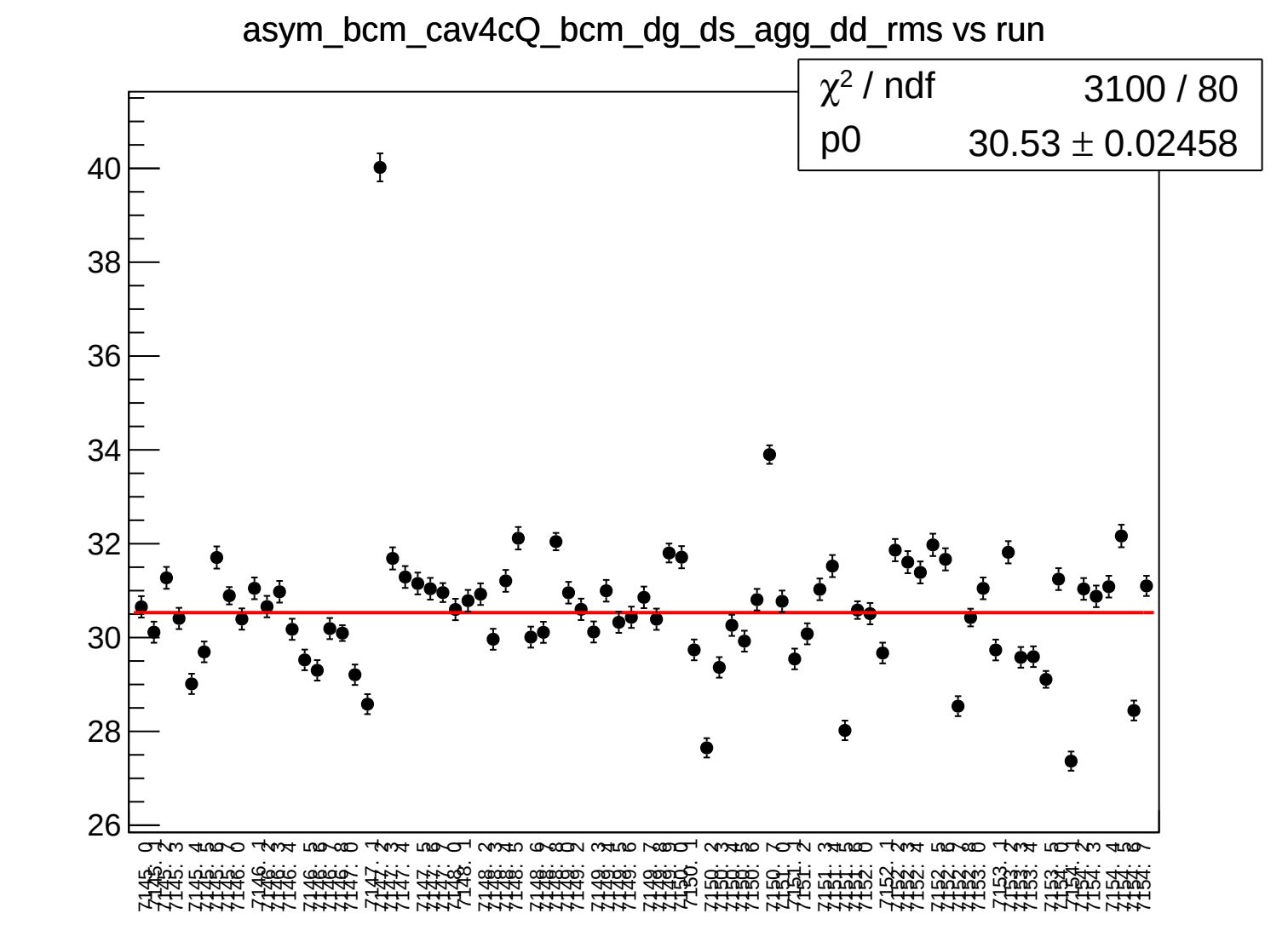

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 21.95 / 80
p0 −15.33 ± 232.2
pull
Entries 81
Mean 1452
Std Dev 1408

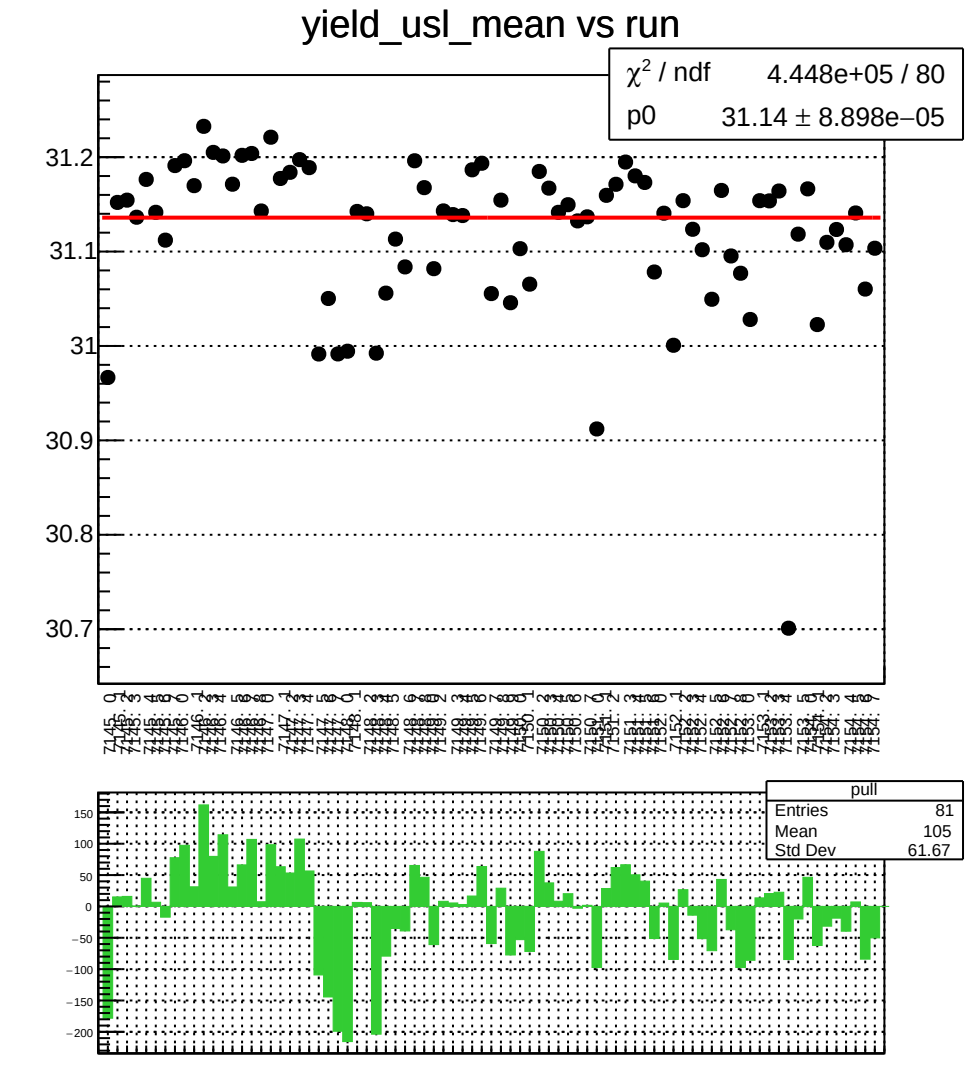

pull1D
Entries 81
Mean 0.002192
Std Dev 0.5206

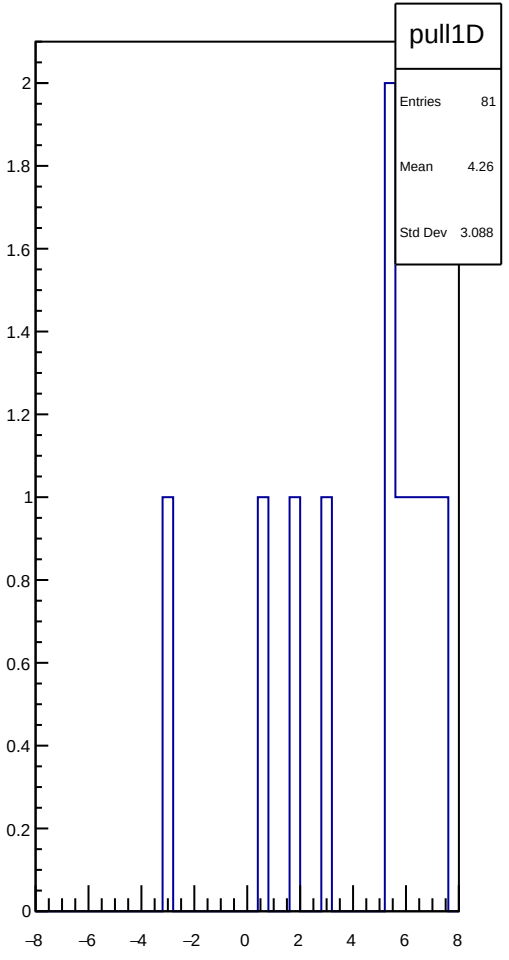

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.907e+04 / 80
p0 202.9 ± 0.1642
600
500
400
300
200

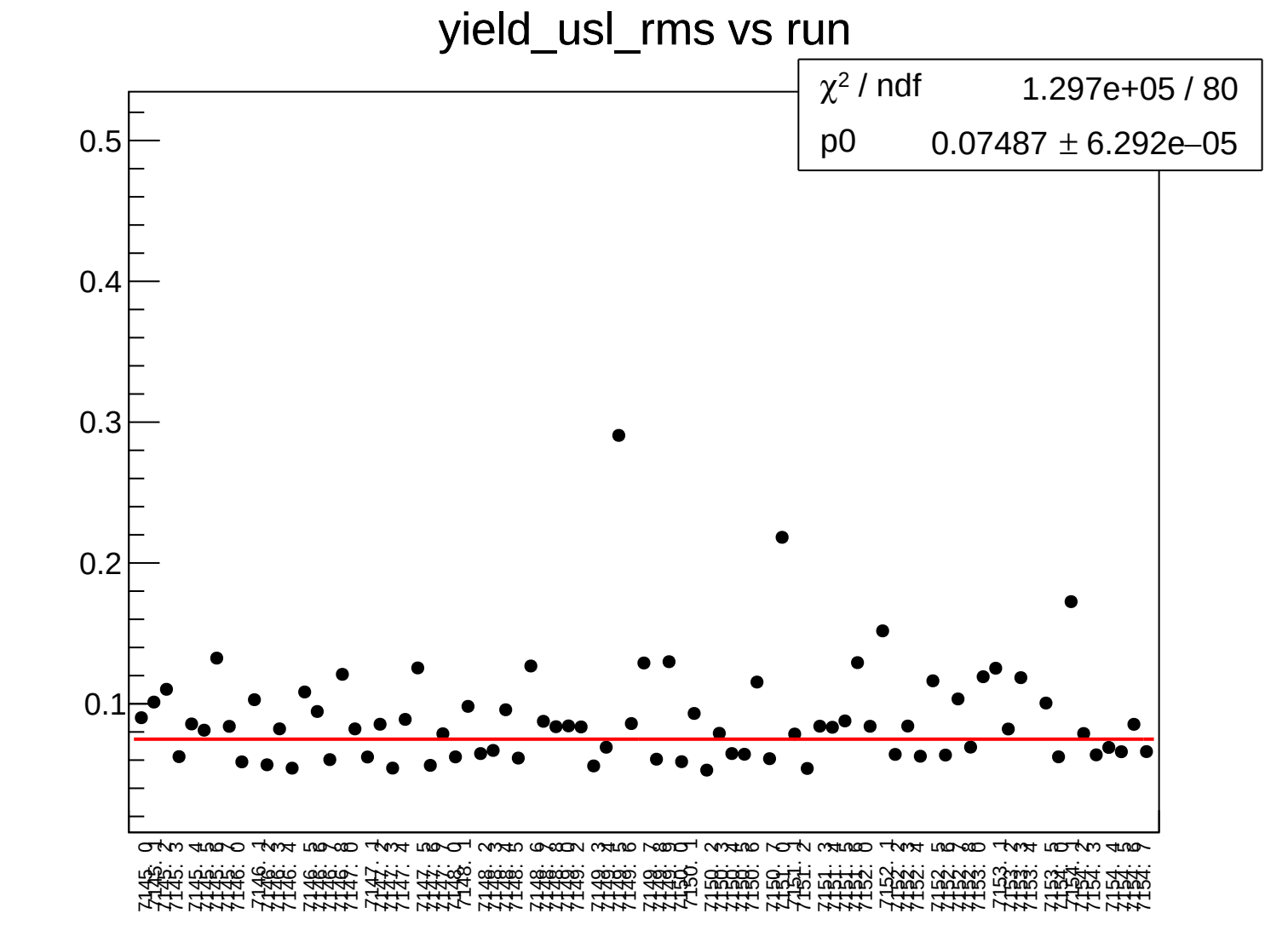

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 54.98 / 80
p0 10.05 ± 34.77
pull
Entries 81
Mean 29.58
Std Dev 121.7

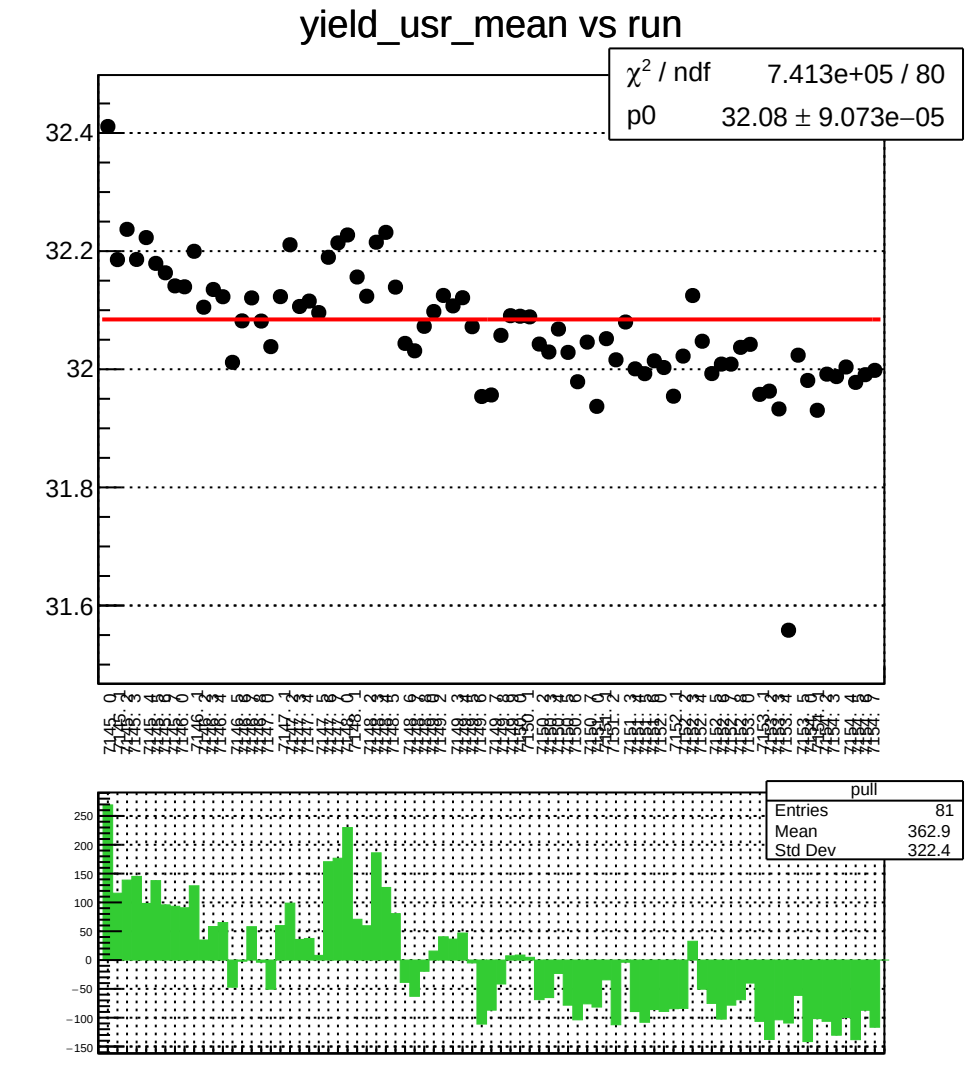

pull1D
Entries 81
Mean −0.003683
Std Dev 0.8238

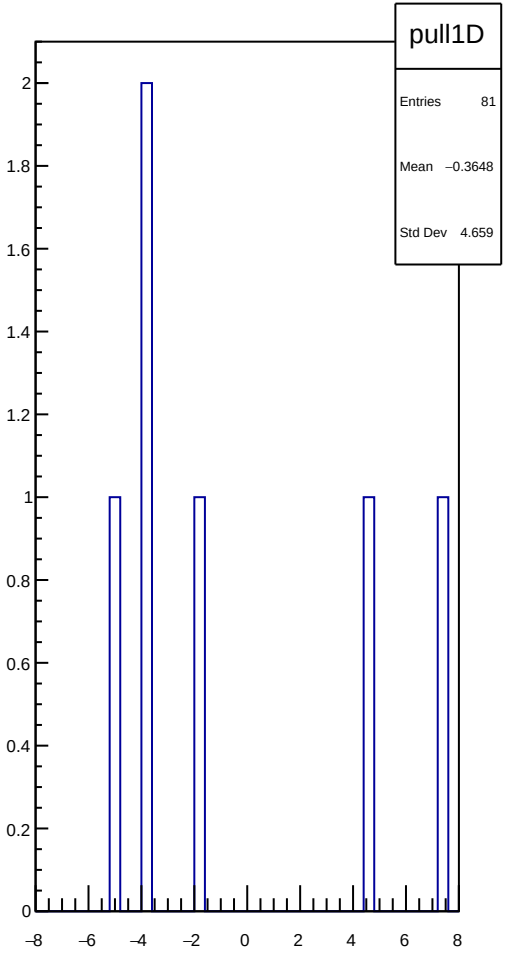

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3100 / 80
p0 30.53 ± 0.02458
40
38
36
34
32
30
28
26

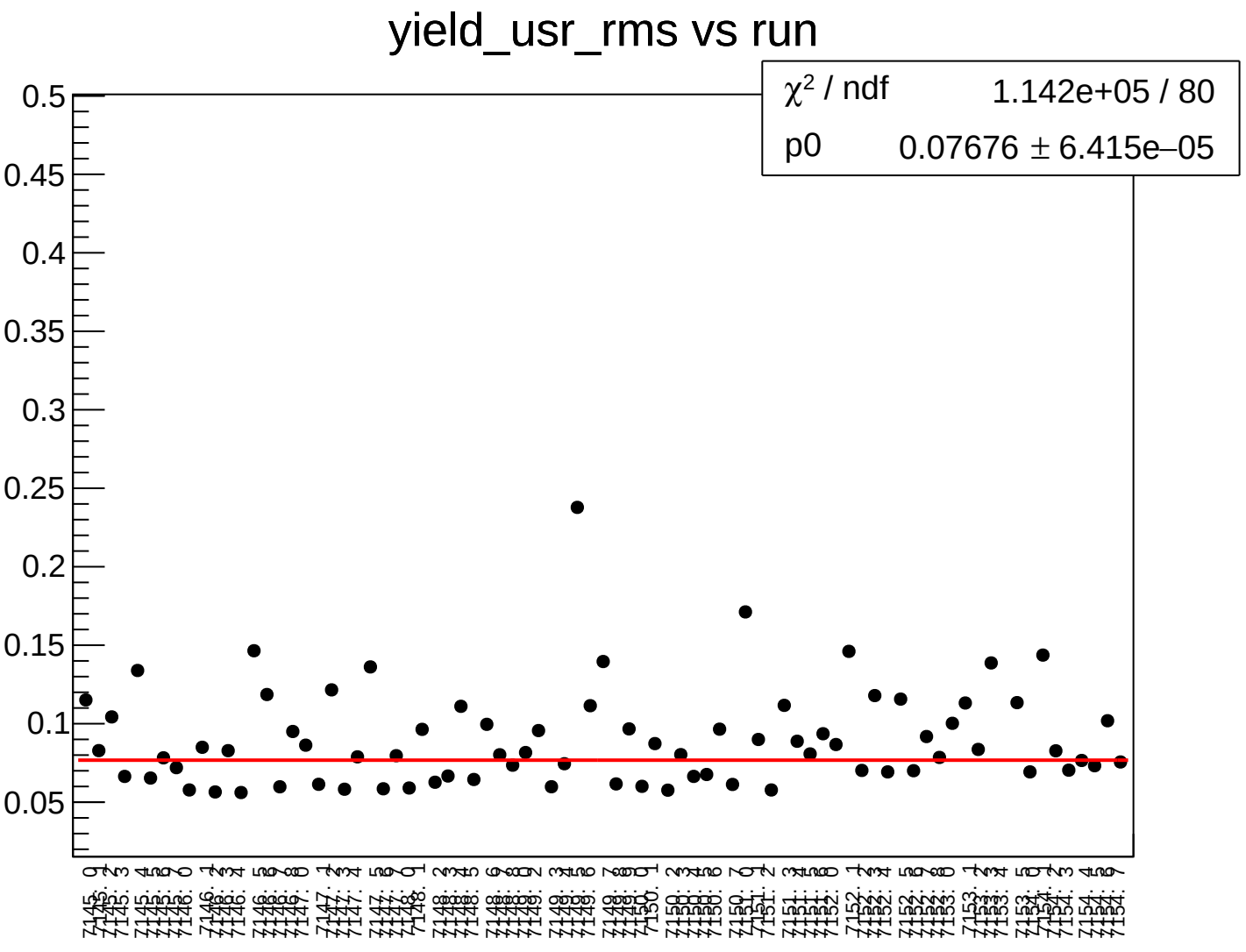

yield_usl_mean vs run
χ² / ndf 4.448e+05 / 80
p0 31.14 ± 8.898e−05
31.2
31.1
31
30.9
30.8
30.7
pull
Entries 81
Mean 105
Std Dev 61.67
150
100
50
0
−50
−100
−150
−200

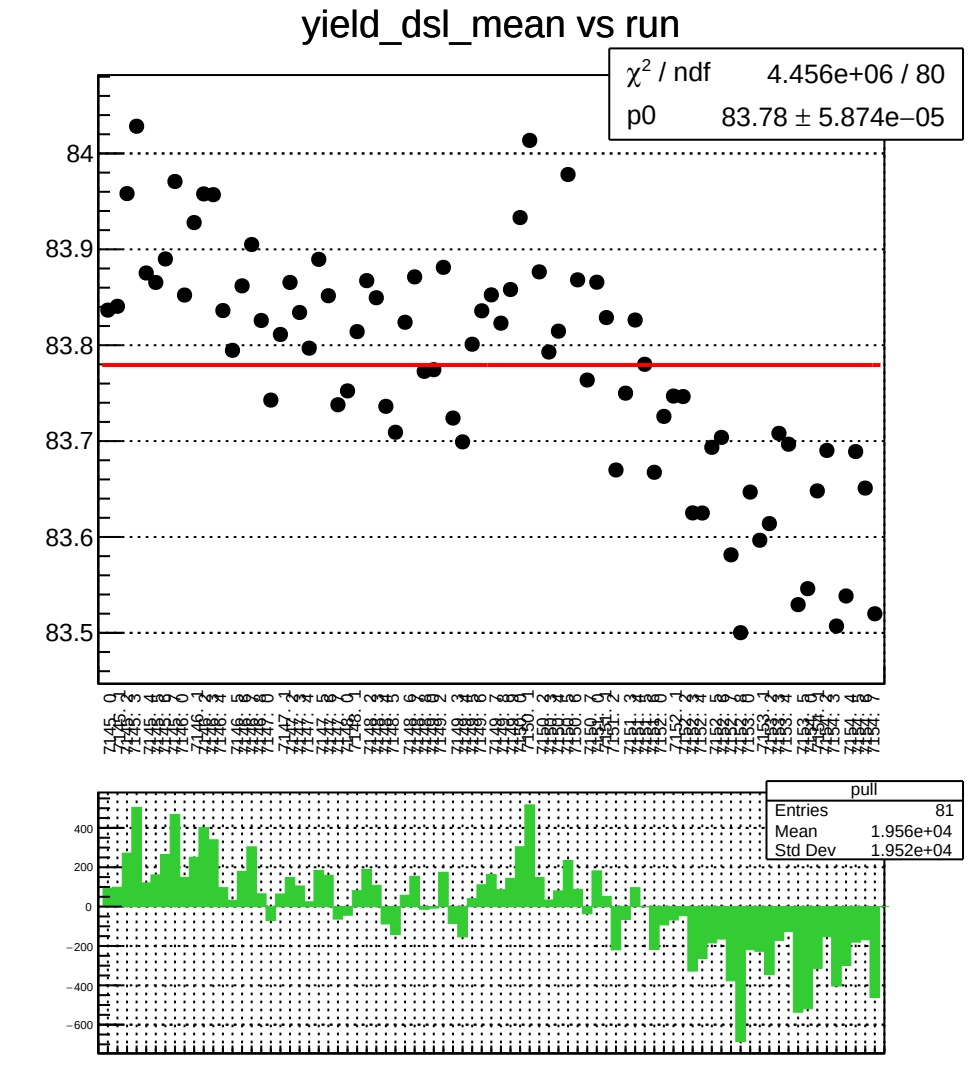

pull1D
Entries 81
Mean 4.26
Std Dev 3.088
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

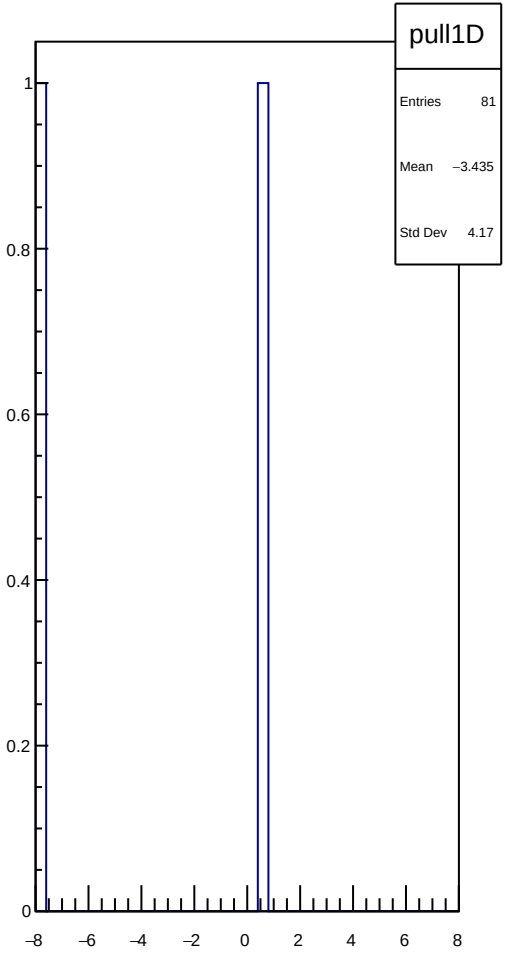

yield_usl_rms vs run
χ² / ndf 1.297e+05 / 80
p0 0.07487 ± 6.292e–05
0.5
0.4
0.3
0.2
0.1

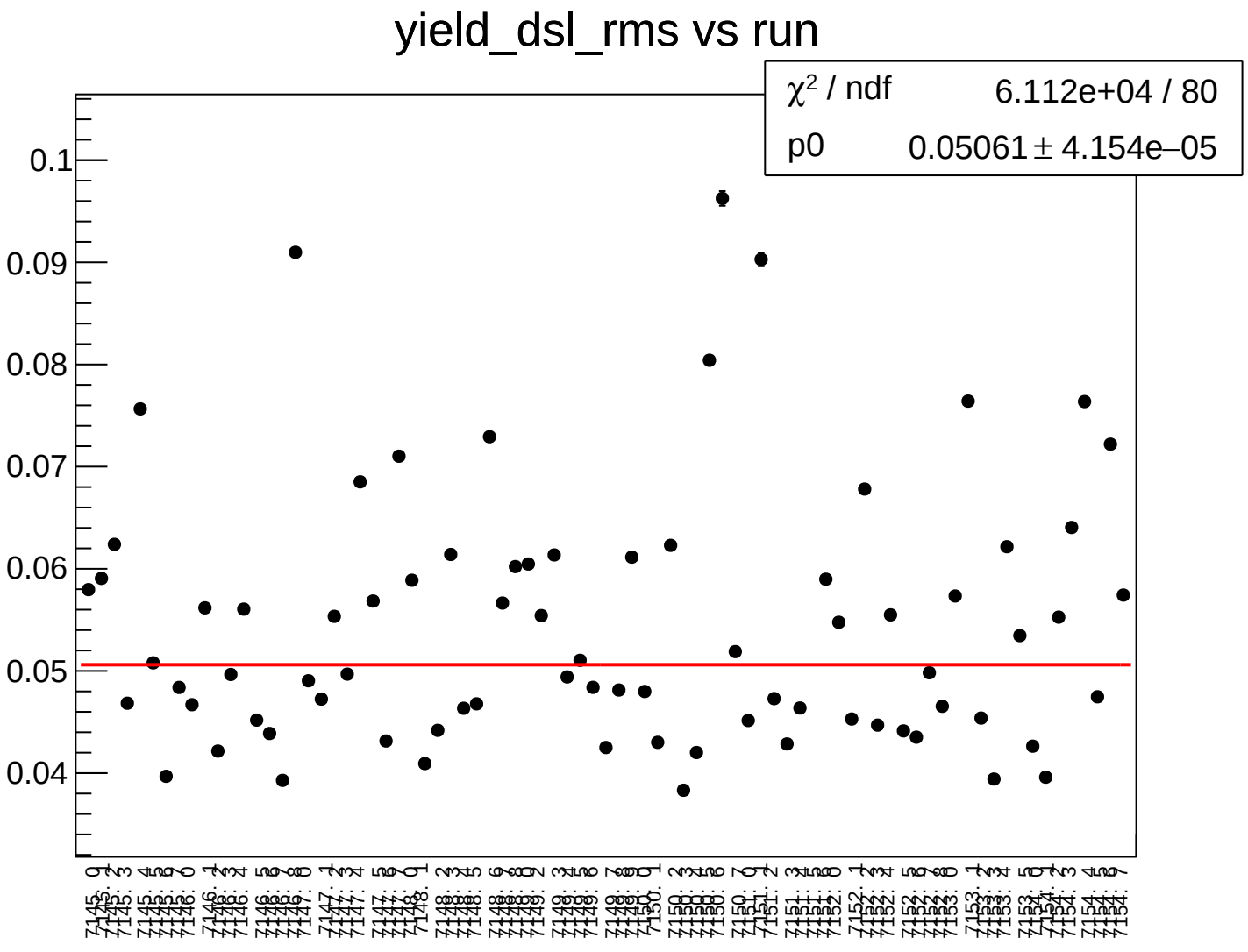

yield_usr_mean vs run
χ² / ndf 7.413e+05 / 80
p0 32.08 ± 9.073e−05
32.4
32.2
32
31.8
31.6
pull
Entries 81
Mean 362.9
Std Dev 322.4
250
200
150
100
50
0
−50
−100
−150

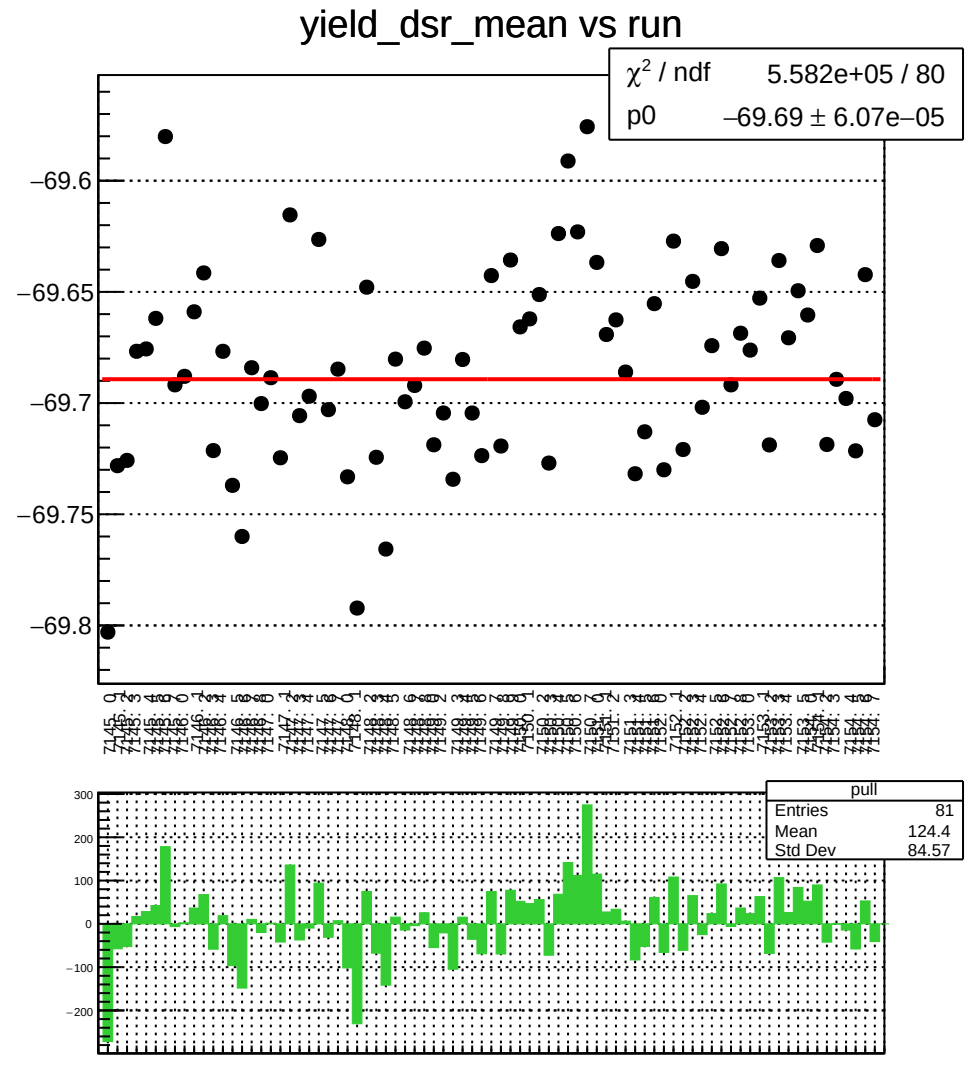

pull1D
Entries 81
Mean −0.3648
Std Dev 4.659
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

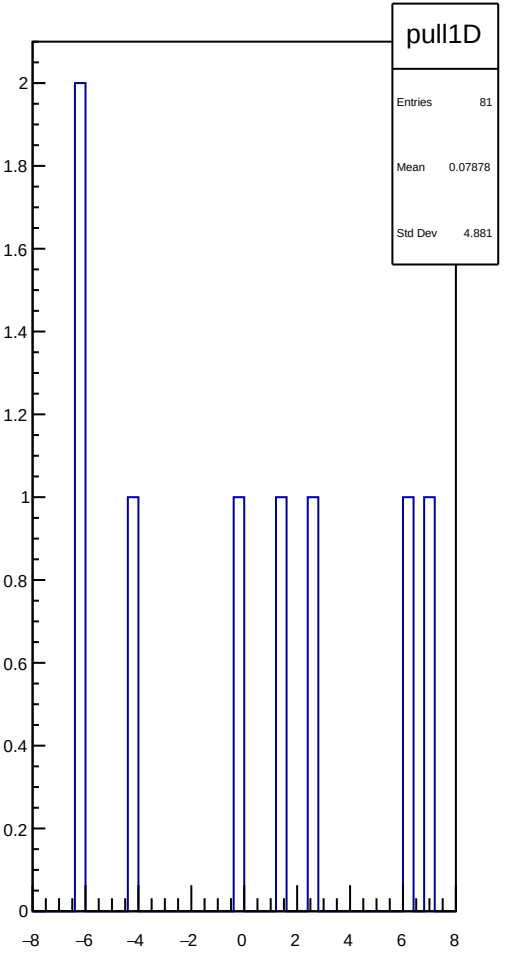

yield_usr_rms vs run
χ² / ndf 1.142e+05 / 80
p0 0.07676 ± 6.415e−05
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

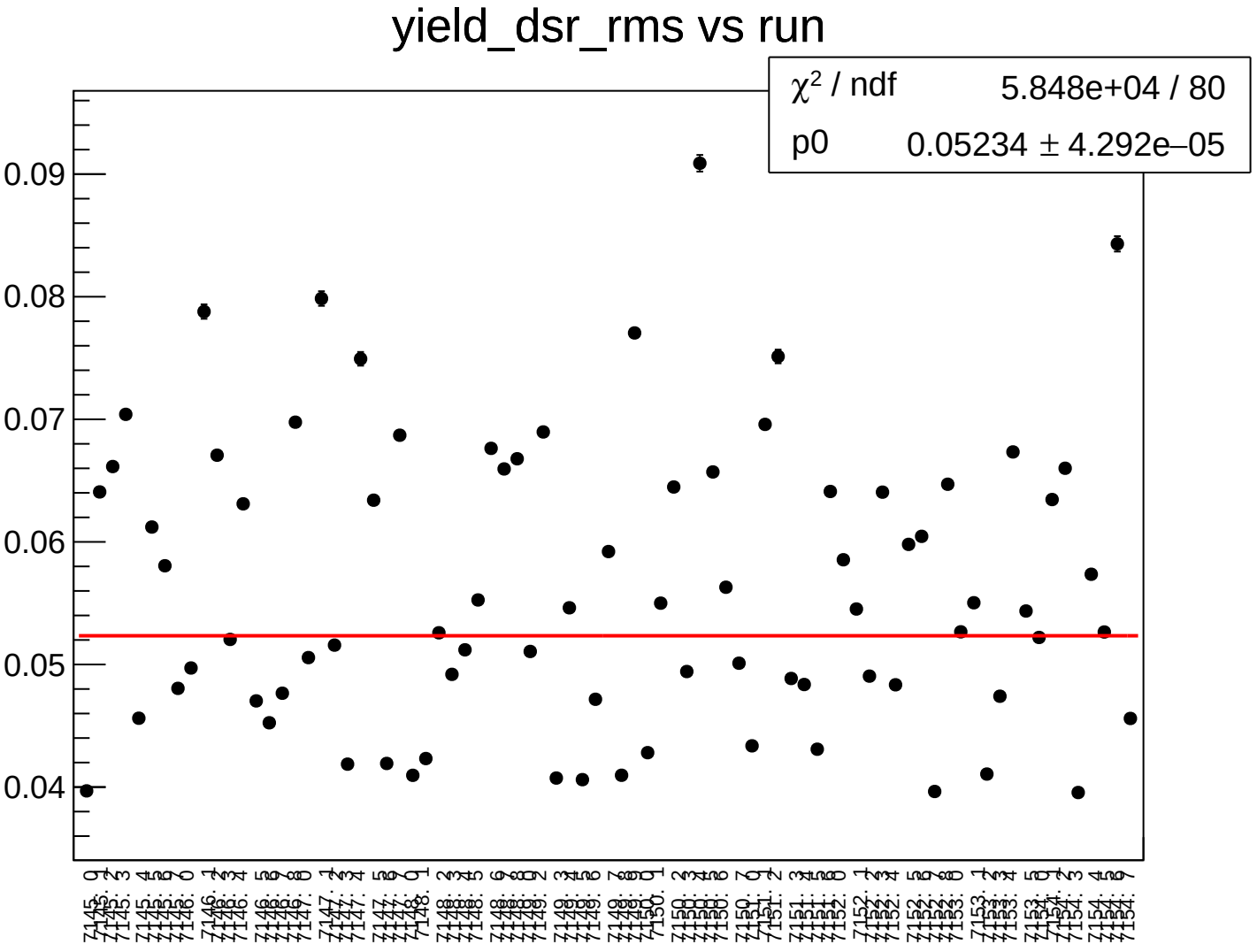

yield_dsl_mean vs run
χ² / ndf 4.456e+06 / 80
p0 83.78 ± 5.874e−05
84
83.9
83.8
83.7
83.6
83.5
pull
Entries 81
Mean 1.956e+04
Std Dev 1.952e+04
400
200
0
−200
−400
−600

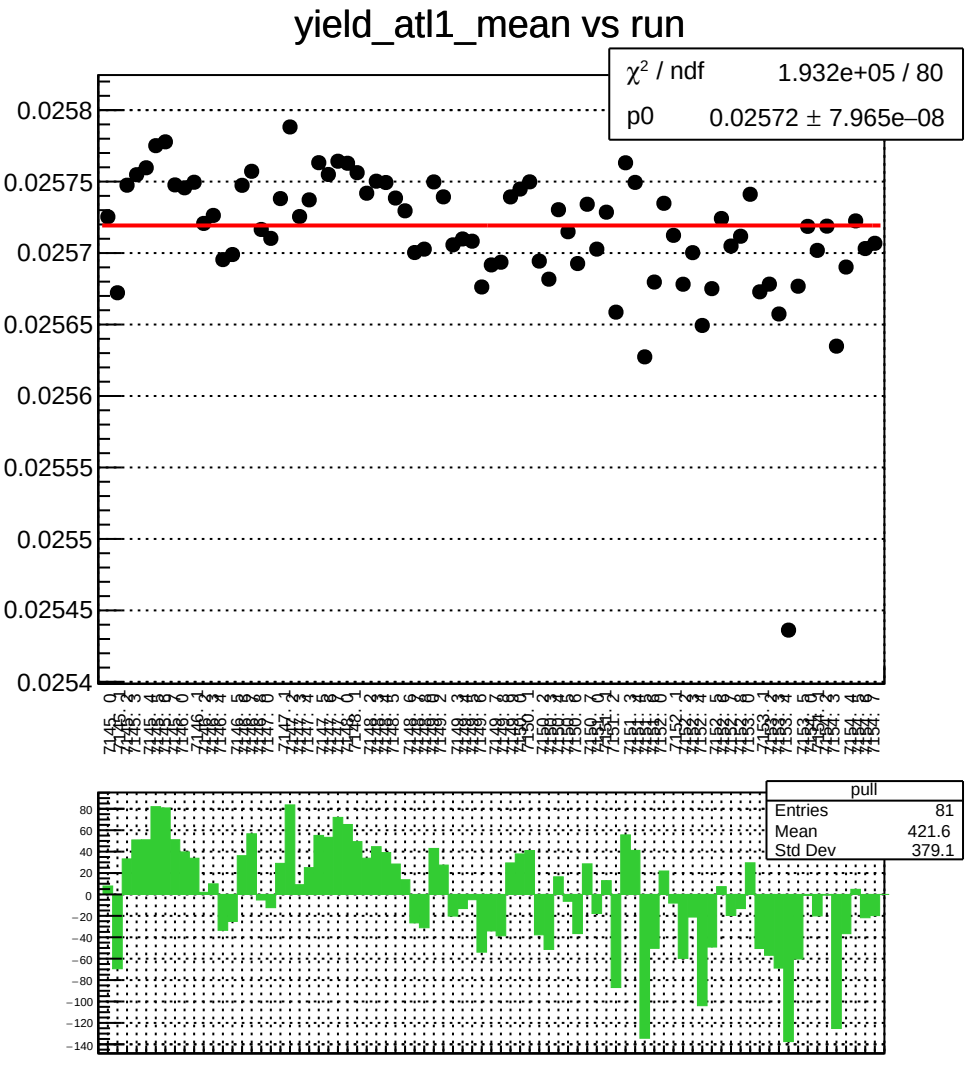

pull1D
Entries 81
Mean −3.435
Std Dev 4.17
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

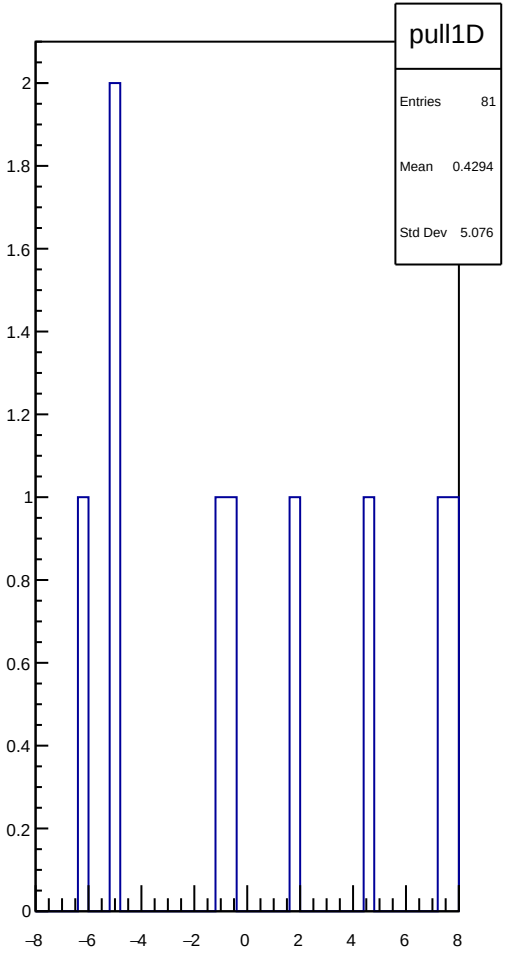

yield_dsl_rms vs run
χ² / ndf 6.112e+04 / 80
p0 0.05061 ± 4.154e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

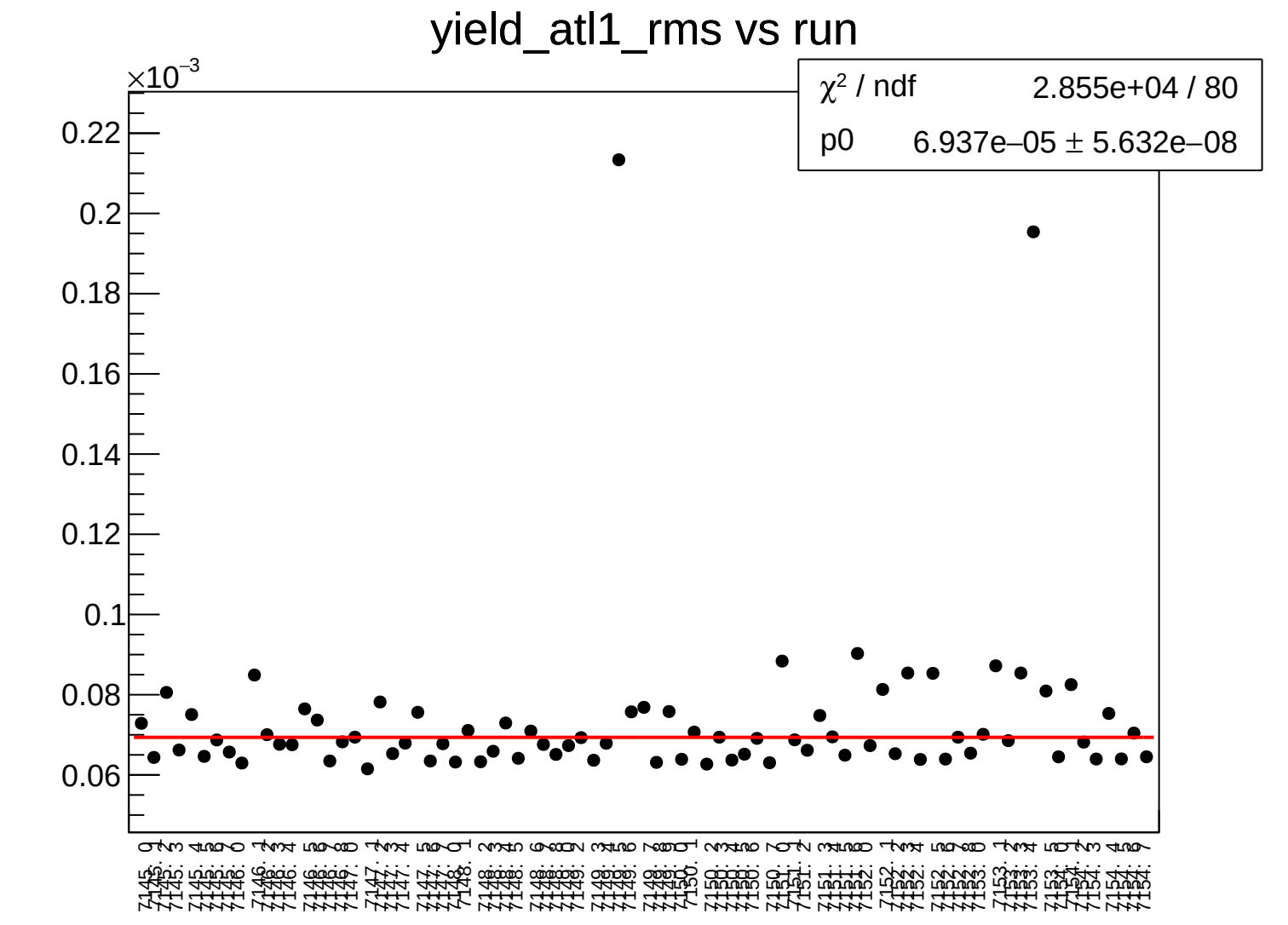

yield_dsr_mean vs run
χ² / ndf 5.582e+05 / 80
p0 −69.69 ± 6.07e−05
−69.6
−69.65
−69.7
−69.75
−69.8
pull
Entries 81
Mean 124.4
Std Dev 84.57
300
200
100
0
−100
−200

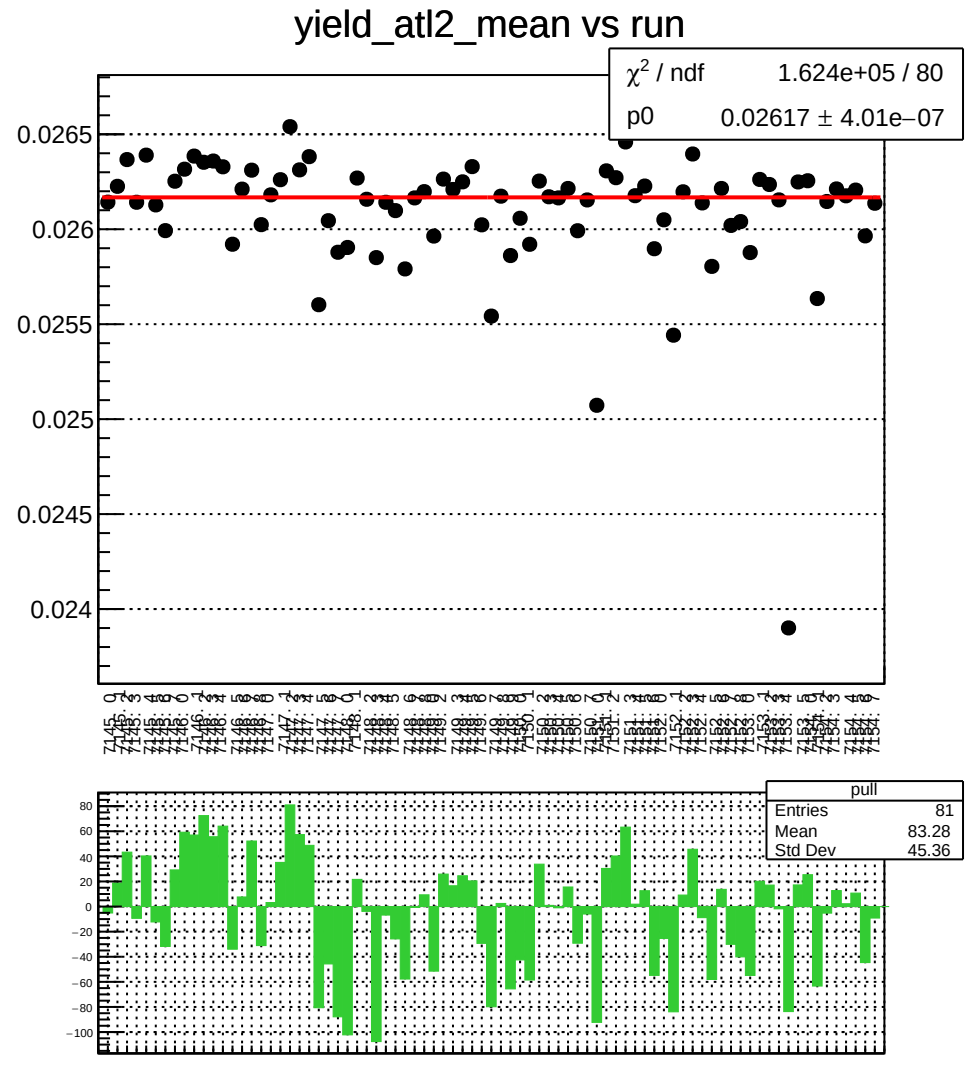

pull1D
Entries 81
Mean 0.07878
Std Dev 4.881
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

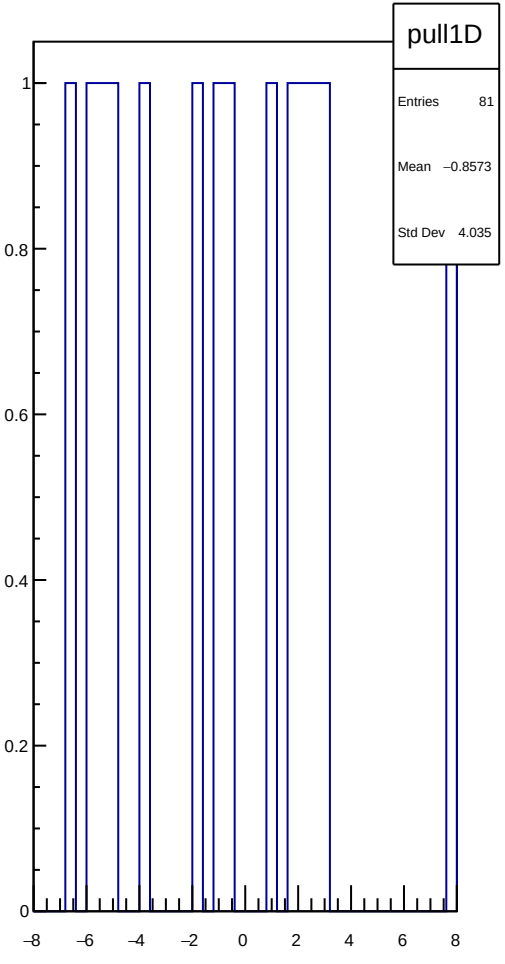

yield_dsr_rms vs run
χ² / ndf 5.848e+04 / 80
p0 0.05234 ± 4.292e−05
0.09
0.08
0.07
0.06
0.05
0.04

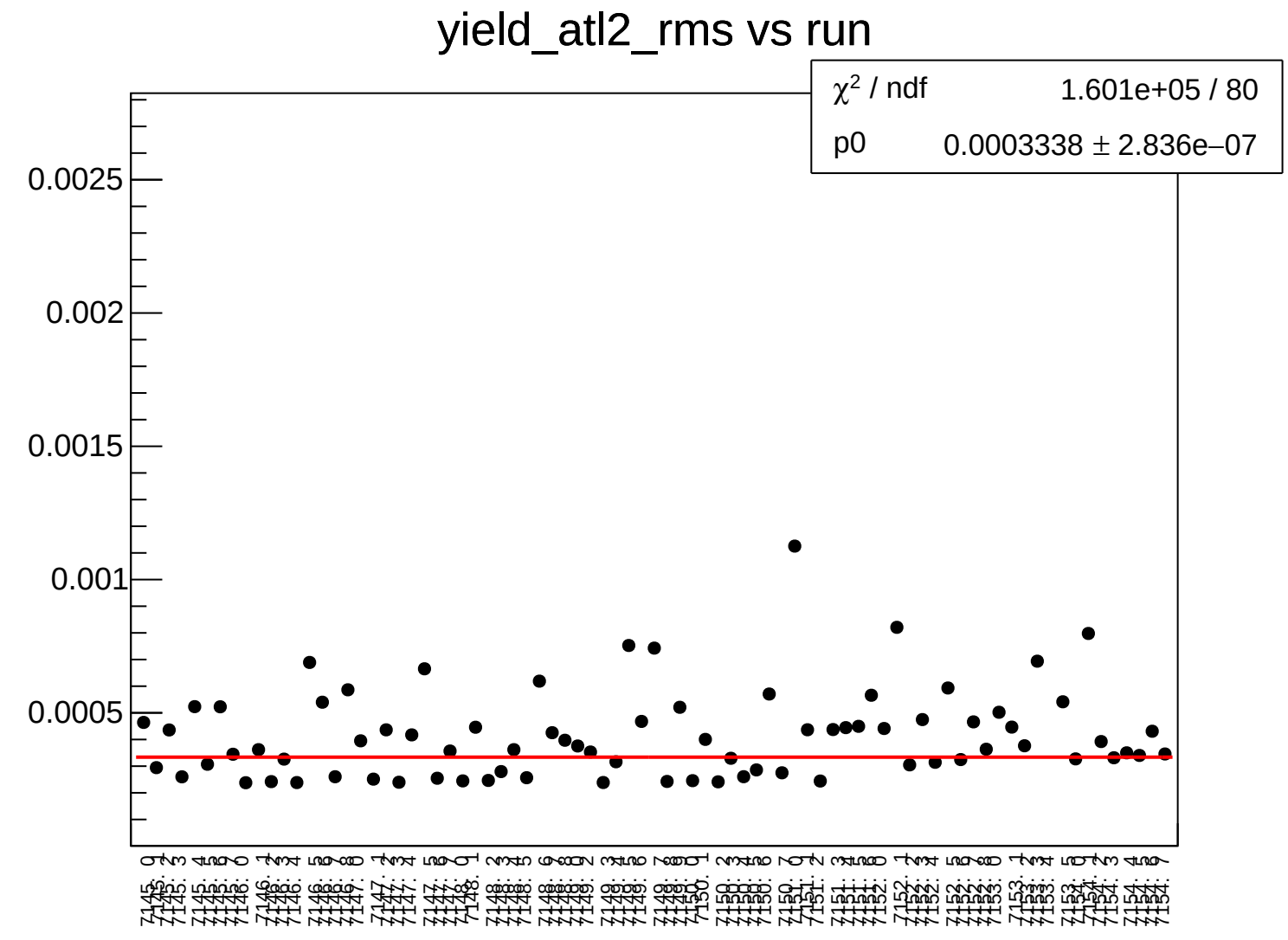

yield_atl1_mean vs run
χ² / ndf 1.932e+05 / 80
p0 0.02572 ± 7.965e−08
0.0258
0.02575
0.0257
0.02565
0.0256
0.02555
0.0255
0.02545
0.0254
pull
Entries 81
Mean 421.6
Std Dev 379.1
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

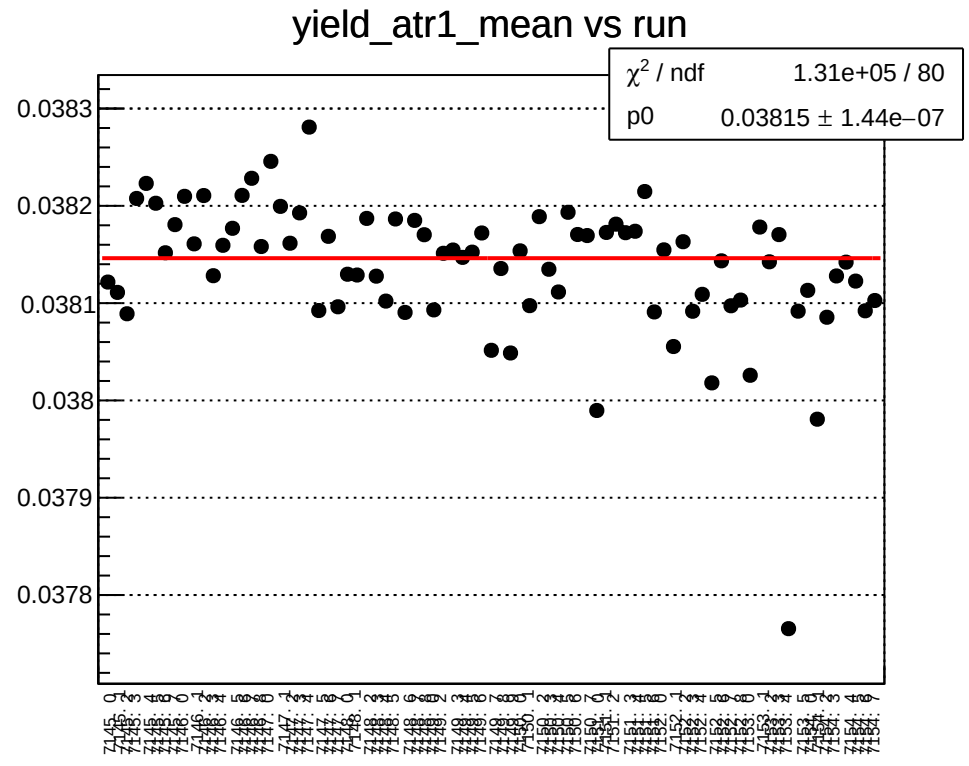

pull1D
Entries 81
Mean 0.4294
Std Dev 5.076
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

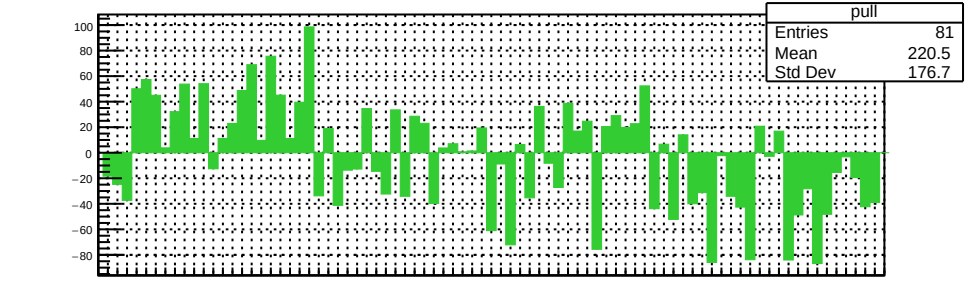

yield_atl1_rms vs run
×10⁻³
χ² / ndf 2.855e+04 / 80
p0 6.937e−05 ± 5.632e−08
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

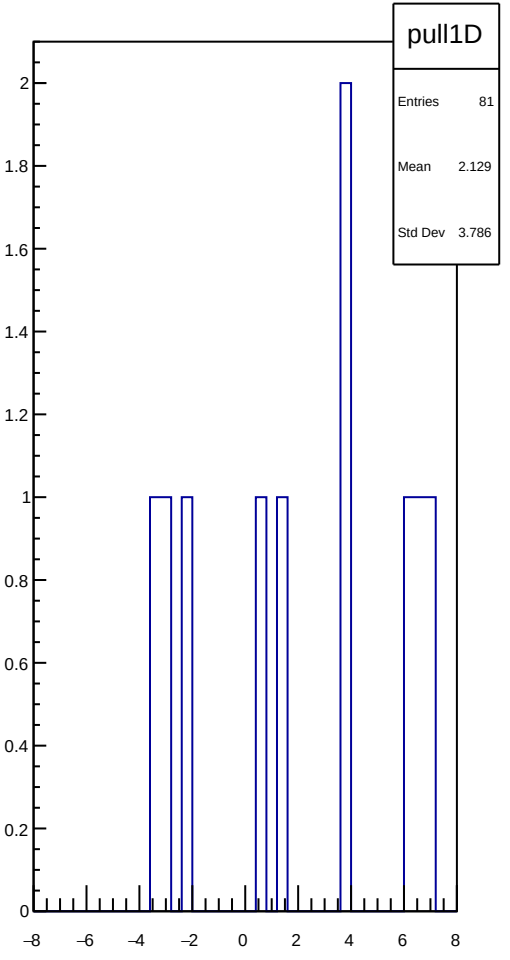

yield_atl2_mean vs run
χ² / ndf 1.624e+05 / 80
p0 0.02617 ± 4.01e−07
0.0265
0.026
0.0255
0.025
0.0245
0.024
pull
Entries 81
Mean 83.28
Std Dev 45.36
80
60
40
20
0
−20
−40
−60
−80
−100

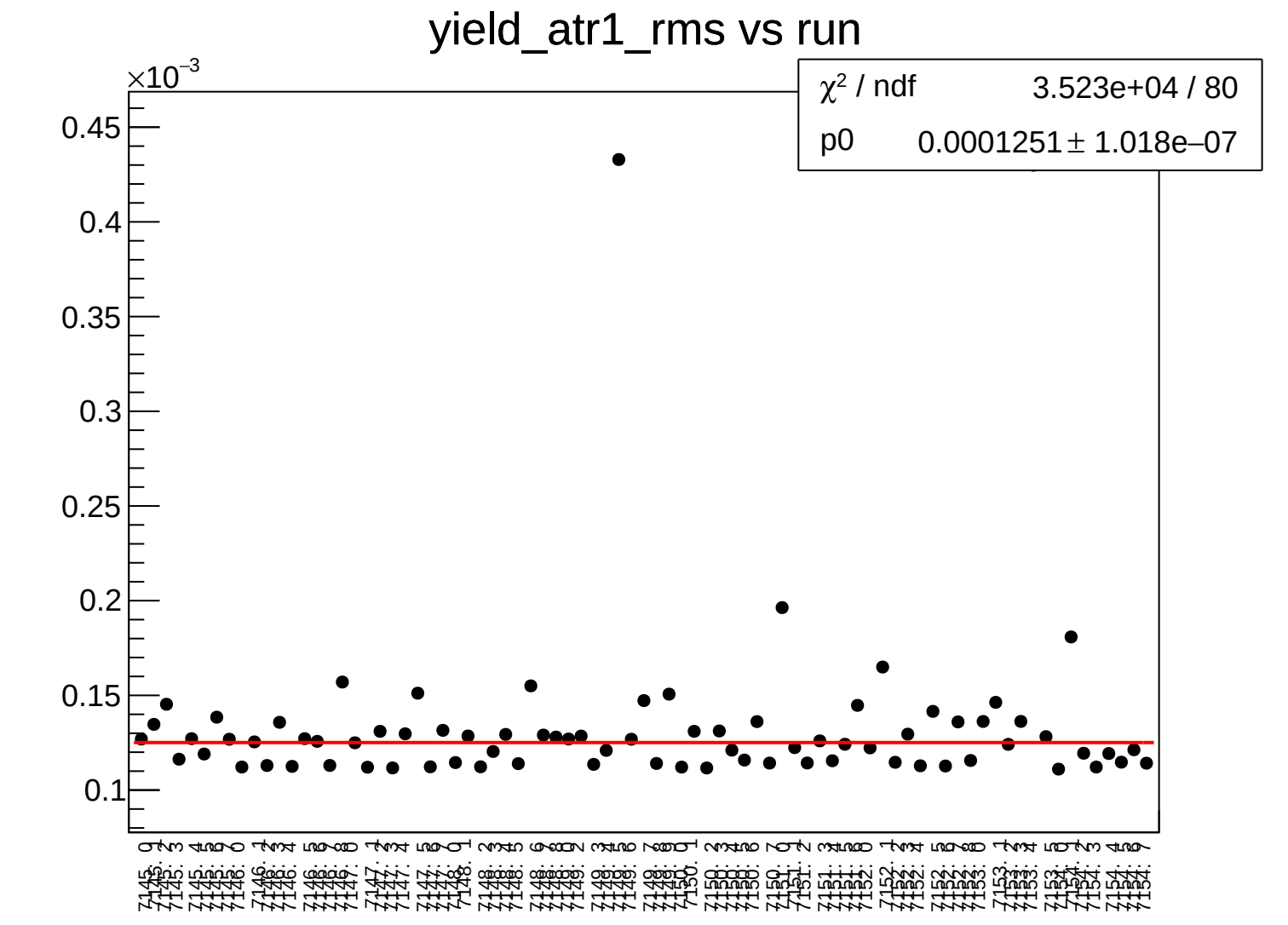

pull1D
Entries 81
Mean −0.8573
Std Dev 4.035
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

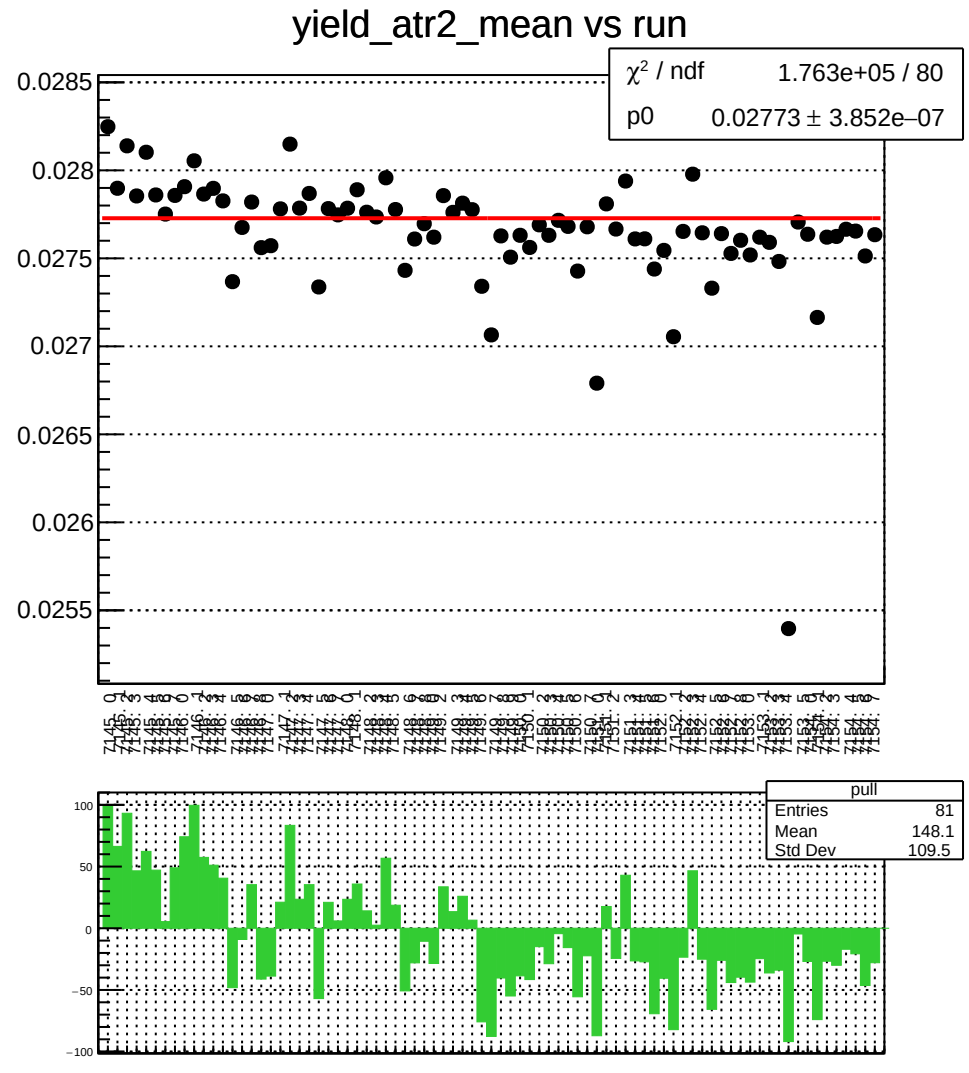

yield_atl2_rms vs run
χ² / ndf 1.601e+05 / 80
p0 0.0003338 ± 2.836e−07
0.0025
0.002
0.0015
0.001
0.0005

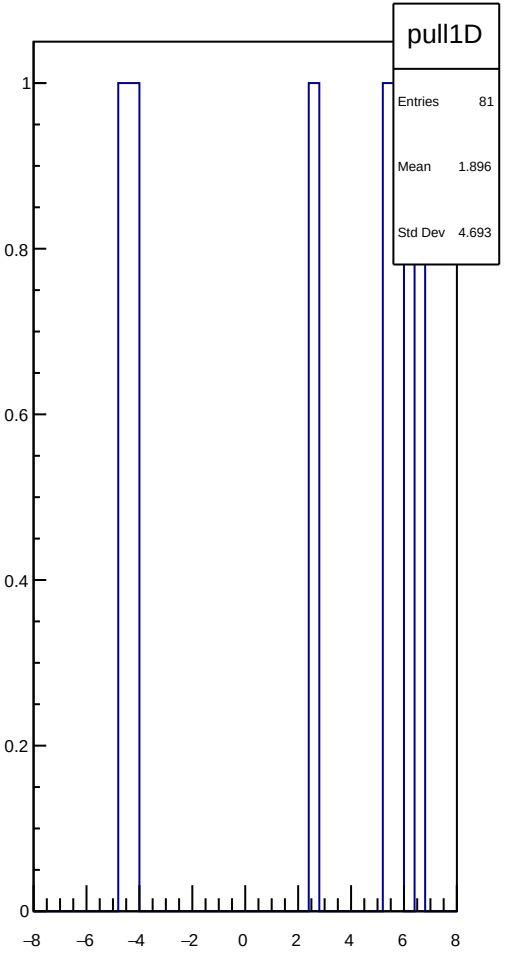

yield_atr1_mean vs run
χ² / ndf 1.31e+05 / 80
p0 0.03815 ± 1.44e−07
0.0383
0.0382
0.0381
0.038
0.0379
0.0378

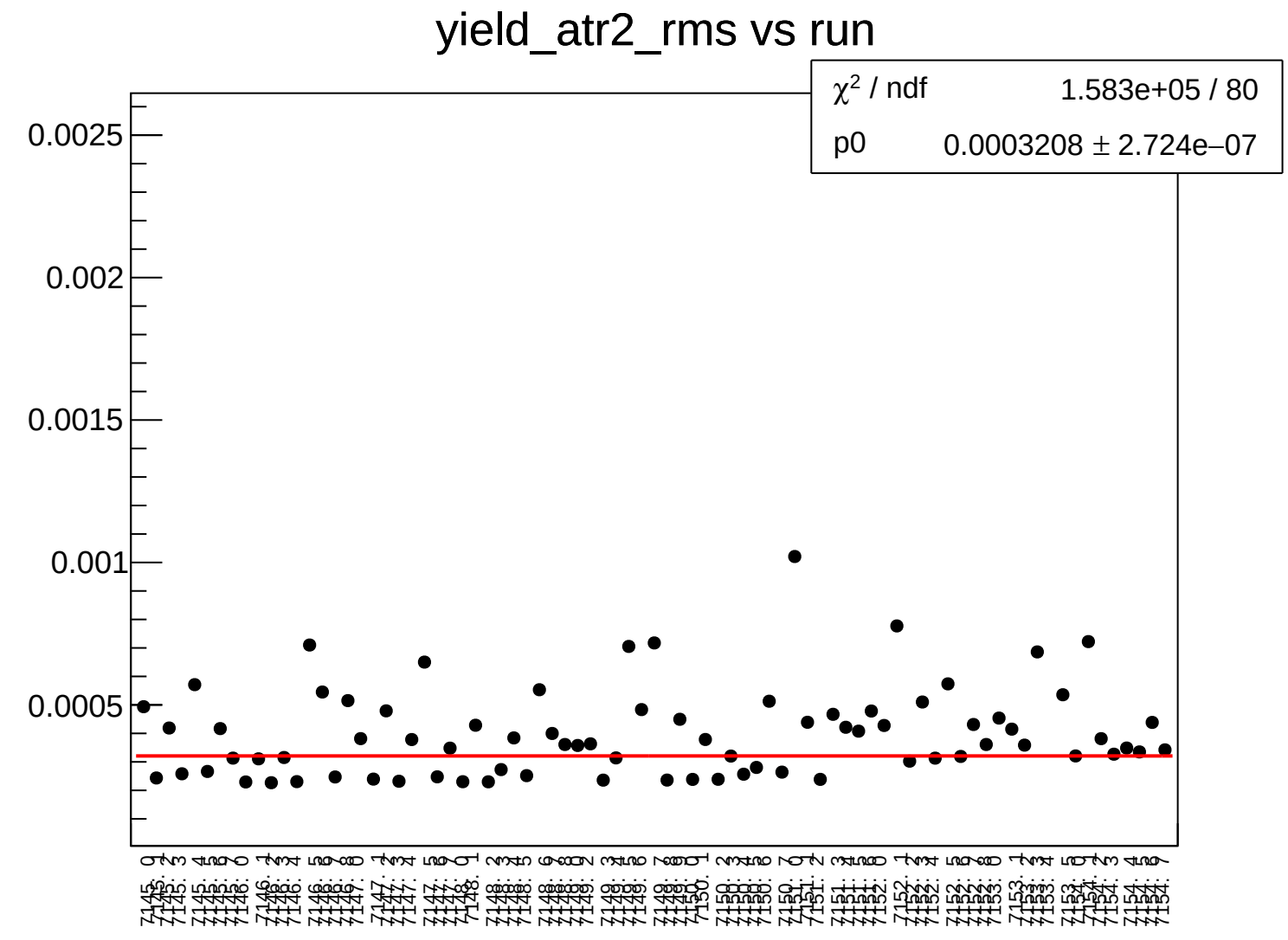

pull
Entries 81
Mean 220.5
Std Dev 176.7
100
80
60
40
20
0
−20
−40
−60
−80

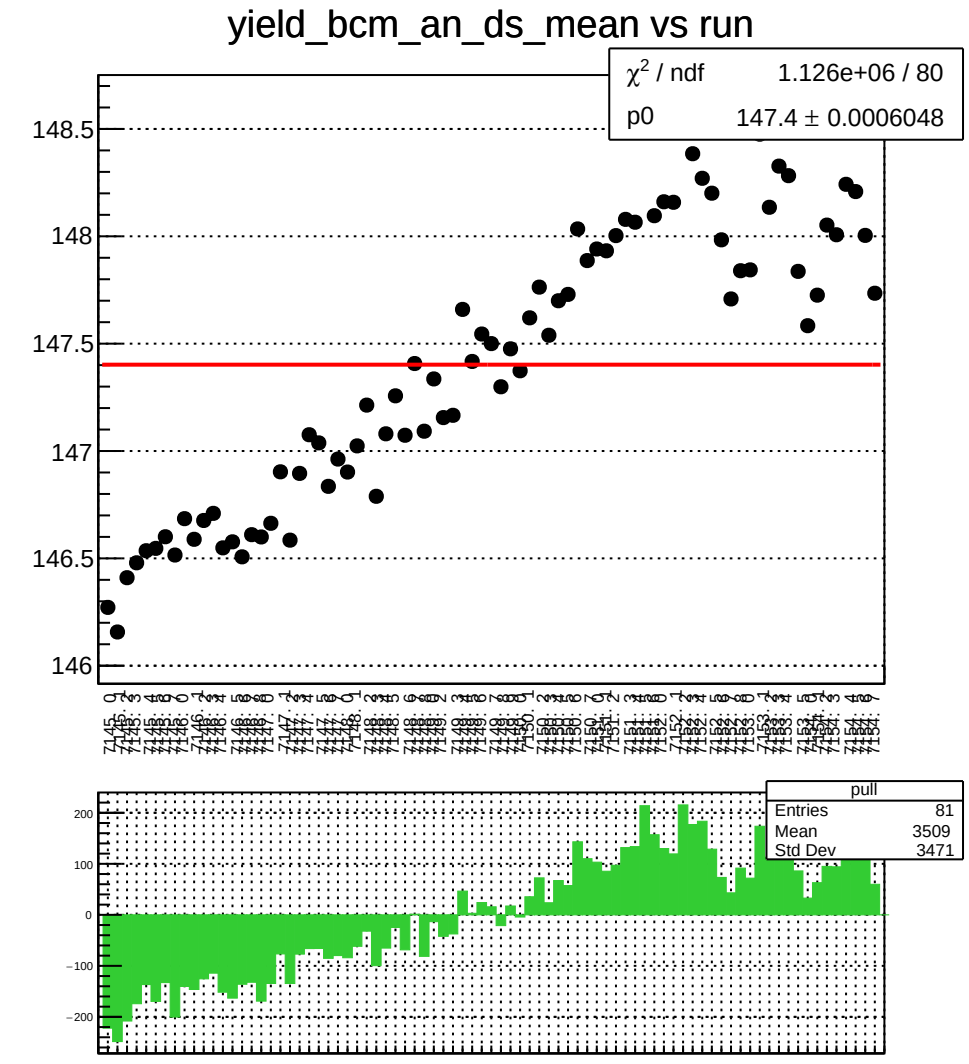

pull1D
Entries 81
Mean 2.129
Std Dev 3.786
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

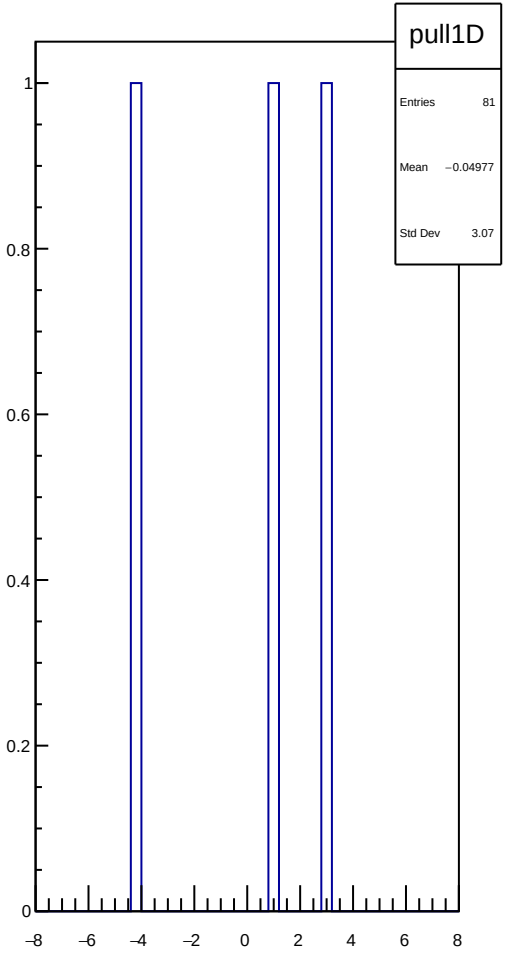

yield_atr1_rms vs run
×10⁻³
χ² / ndf 3.523e+04 / 80
p0 0.0001251 ± 1.018e−07
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

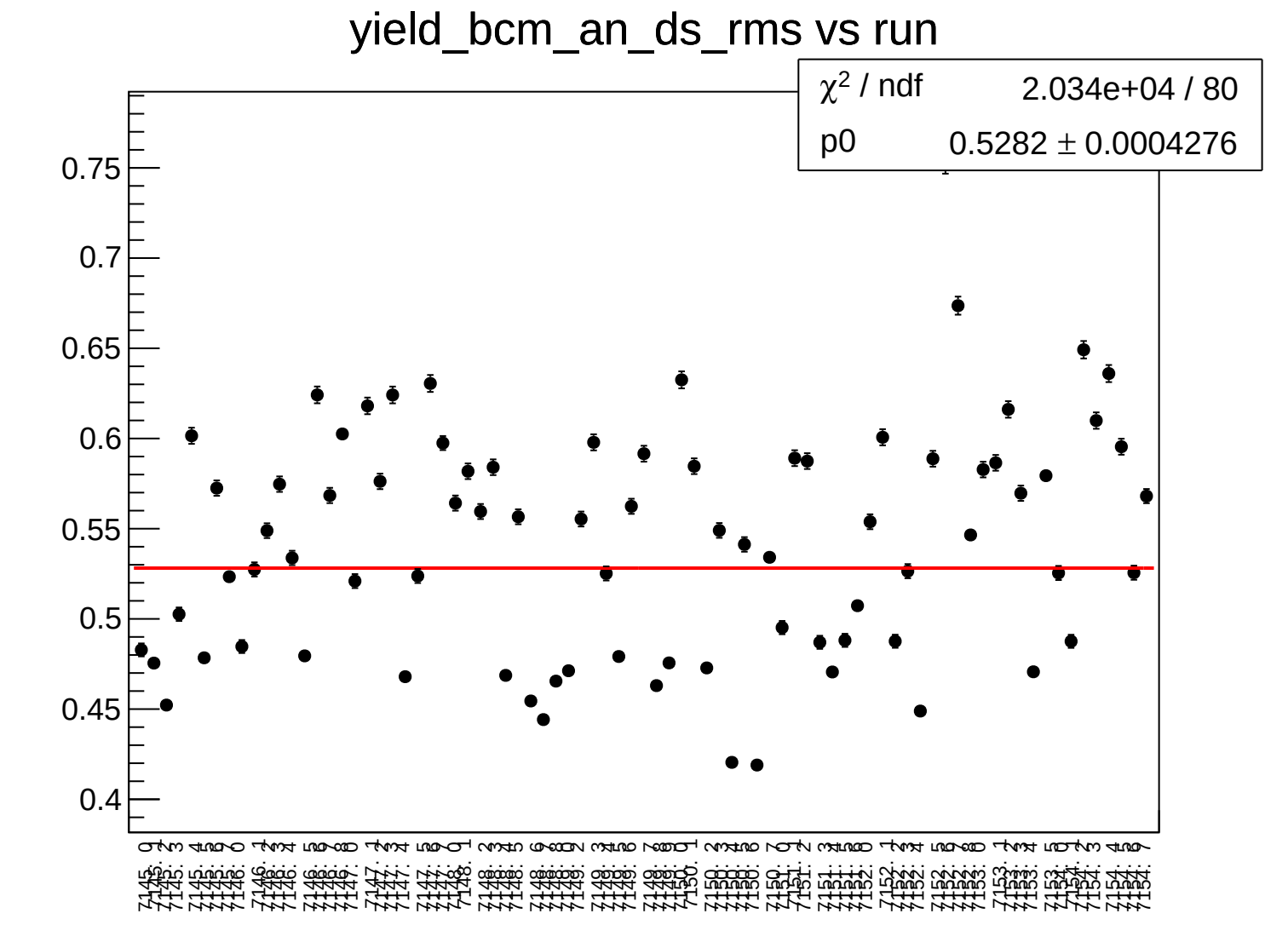

yield_atr2_mean vs run
χ² / ndf 1.763e+05 / 80
p0 0.02773 ± 3.852e−07
0.0285
0.028
0.0275
0.027
0.0265
0.026
0.0255
pull
Entries 81
Mean 148.1
Std Dev 109.5
100
50
0
−50
−100

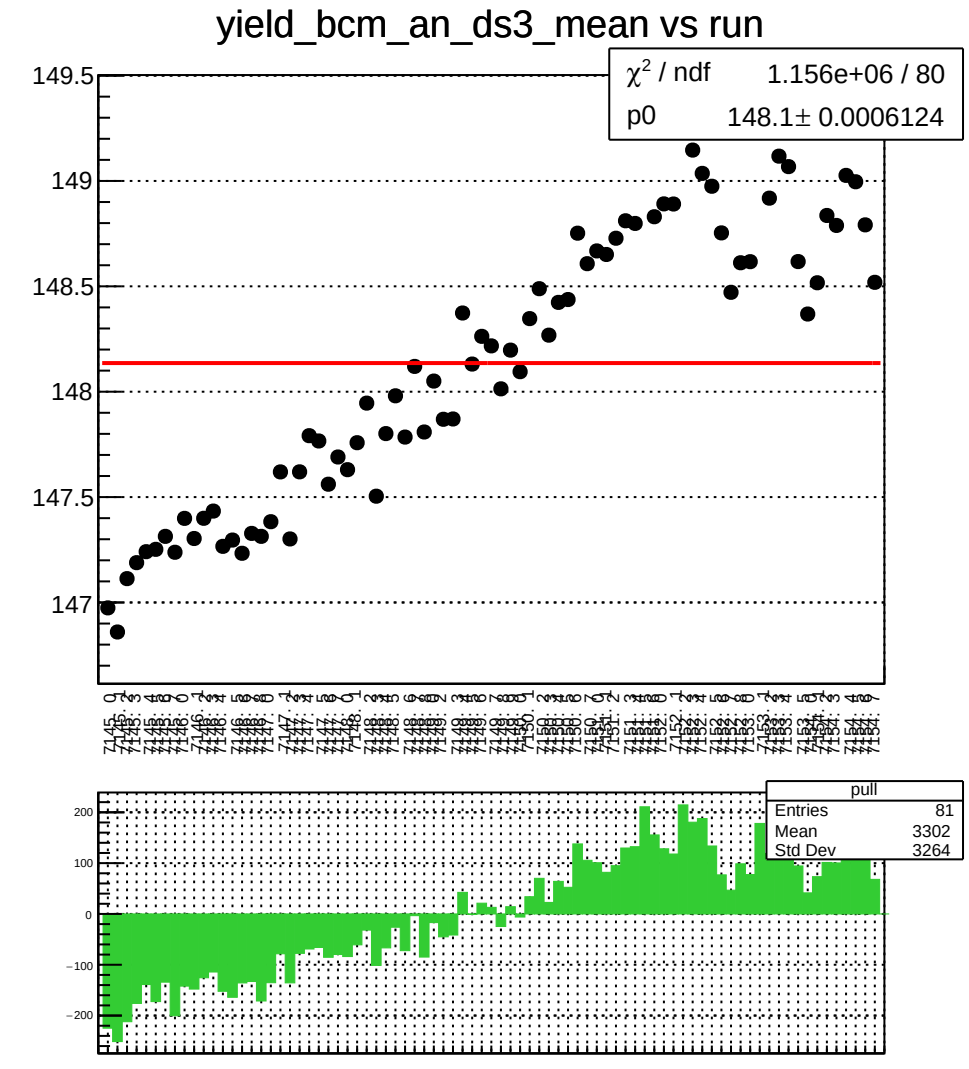

pull1D
Entries 81
Mean 1.896
Std Dev 4.693
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

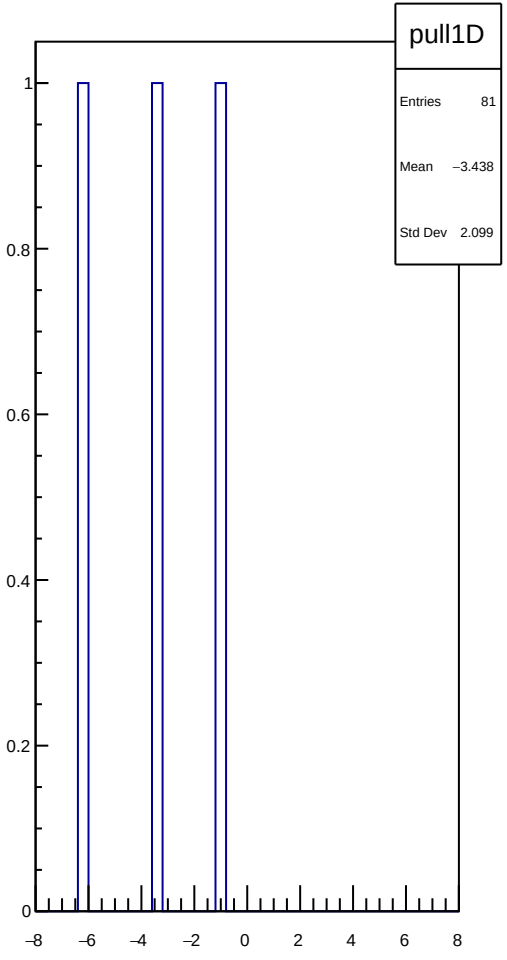

yield_atr2_rms vs run
χ² / ndf 1.583e+05 / 80
p0 0.0003208 ± 2.724e−07
0.0025
0.002
0.0015
0.001
0.0005

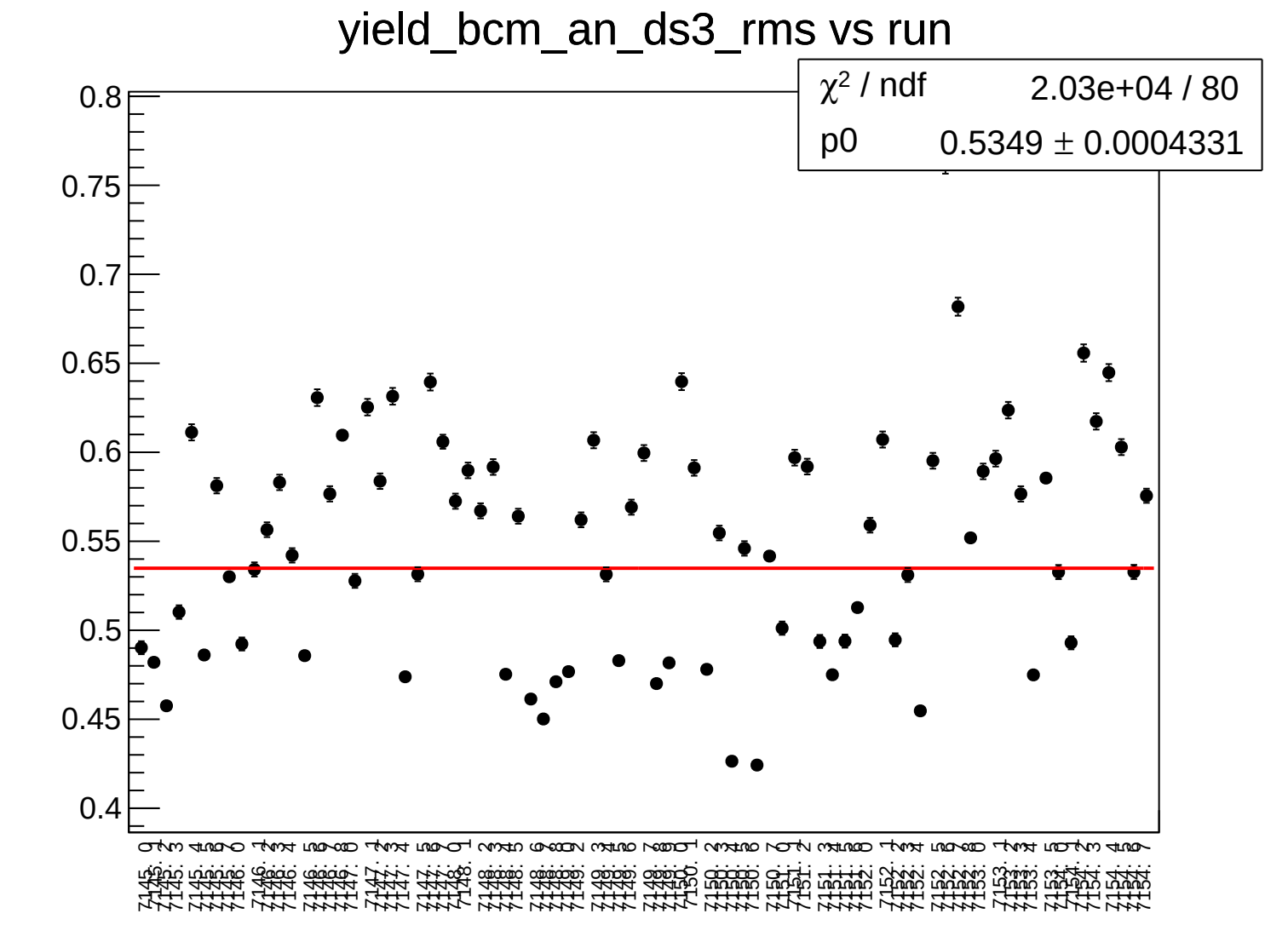

yield_bcm_an_ds_mean vs run
χ² / ndf 1.126e+06 / 80
p0 147.4 ± 0.0006048
148.5
148
147.5
147
146.5
146
pull
Entries 81
Mean 3509
Std Dev 3471
200
100
0
−100
−200

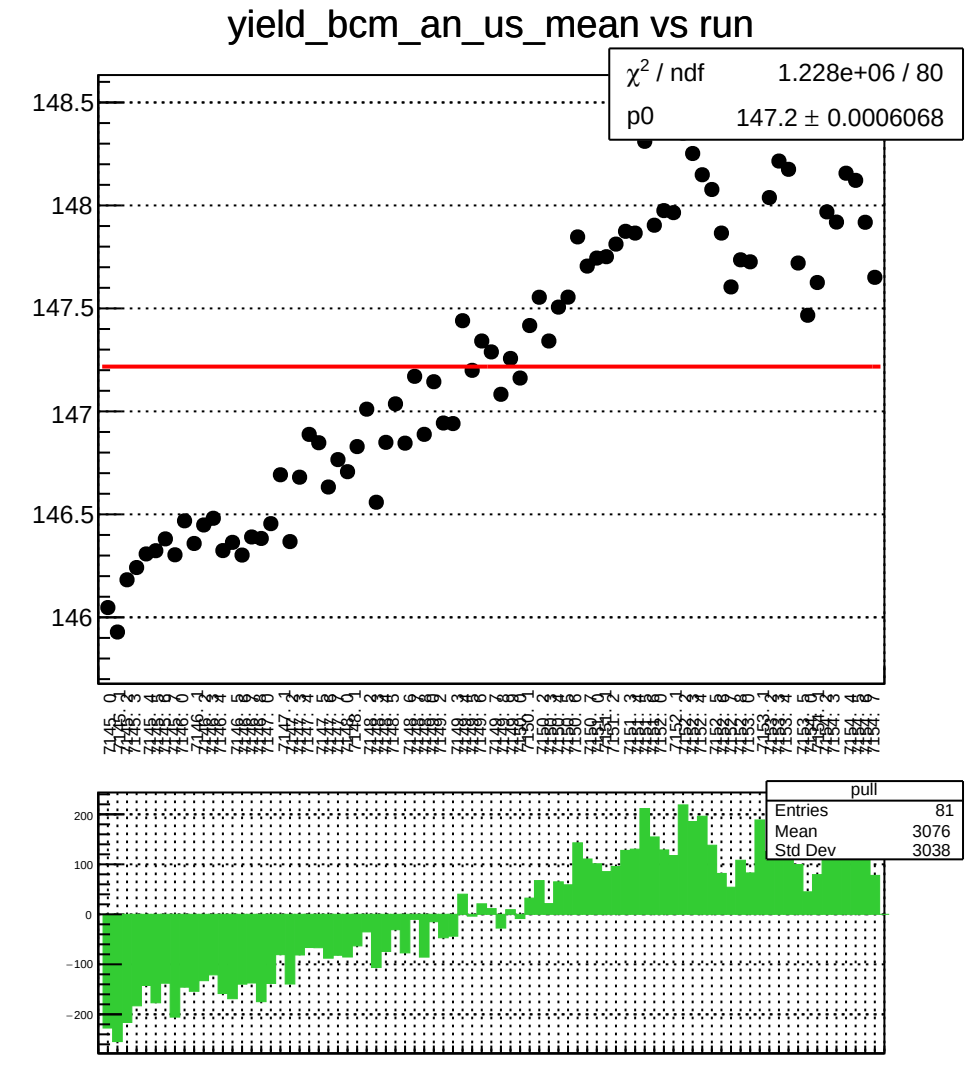

pull1D
Entries 81
Mean −0.04977
Std Dev 3.07
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

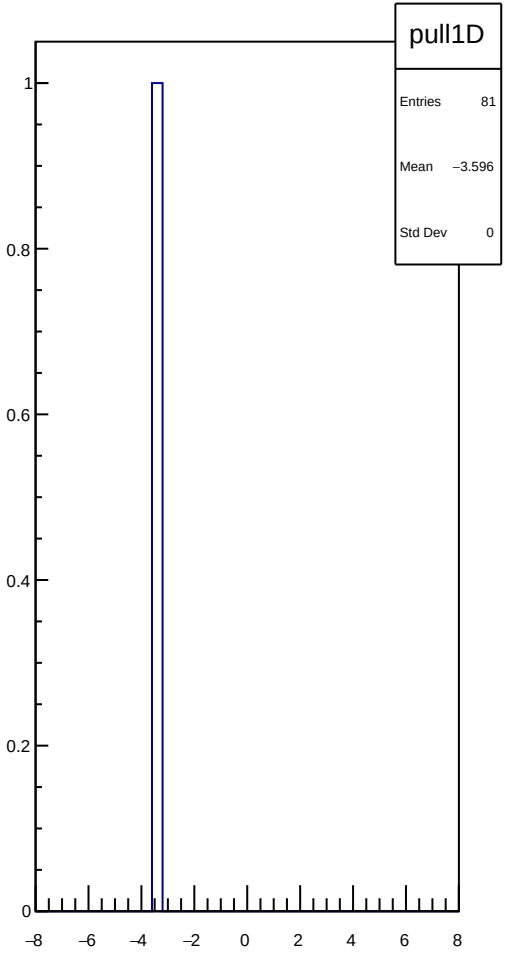

yield_bcm_an_ds_rms vs run
χ² / ndf 2.034e+04 / 80
p0 0.5282 ± 0.0004276
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

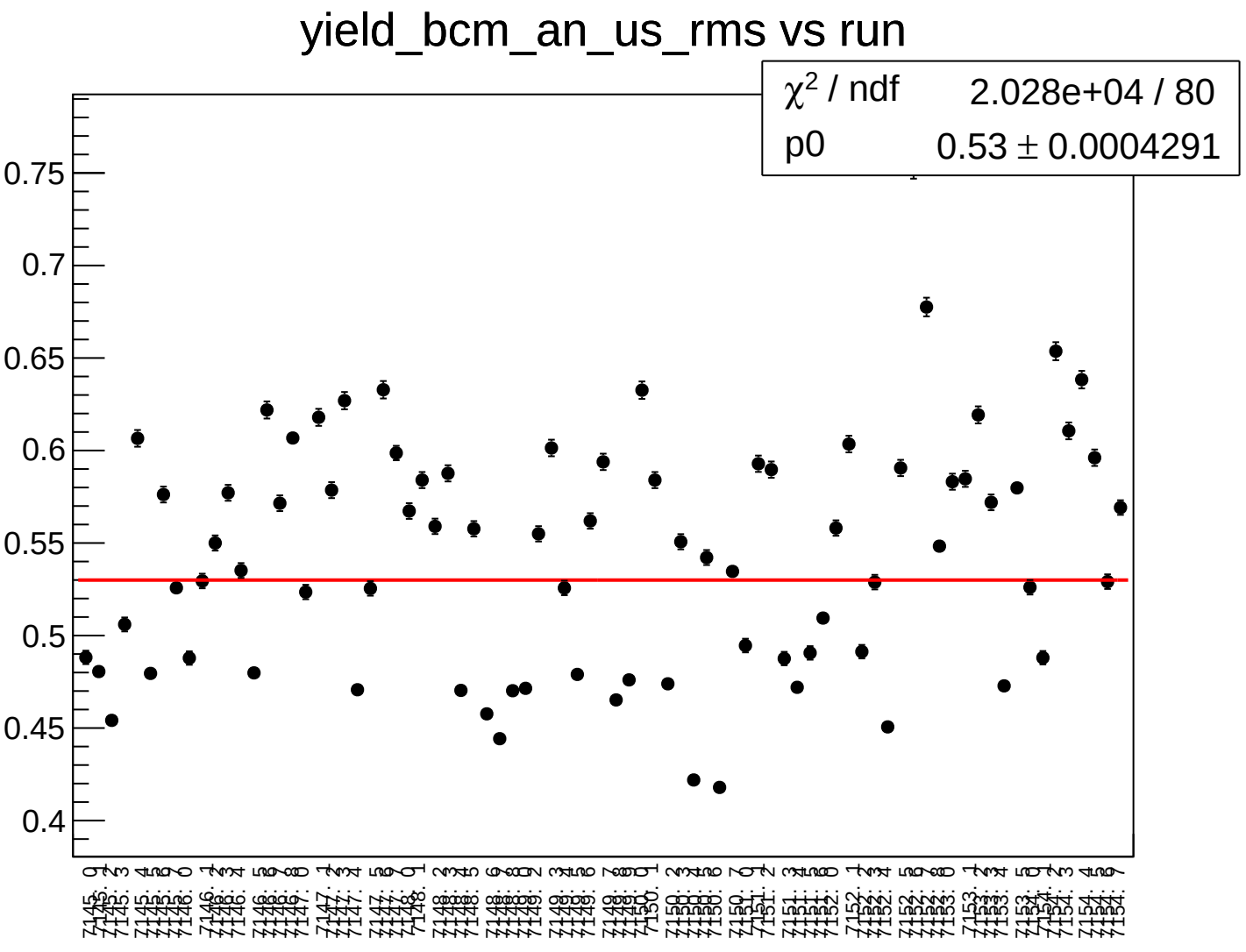

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.156e+06 / 80
p0 148.1± 0.0006124
149.5
149
148.5
148
147.5
147
pull
Entries 81
Mean 3302
Std Dev 3264
200
100
0
−100
−200

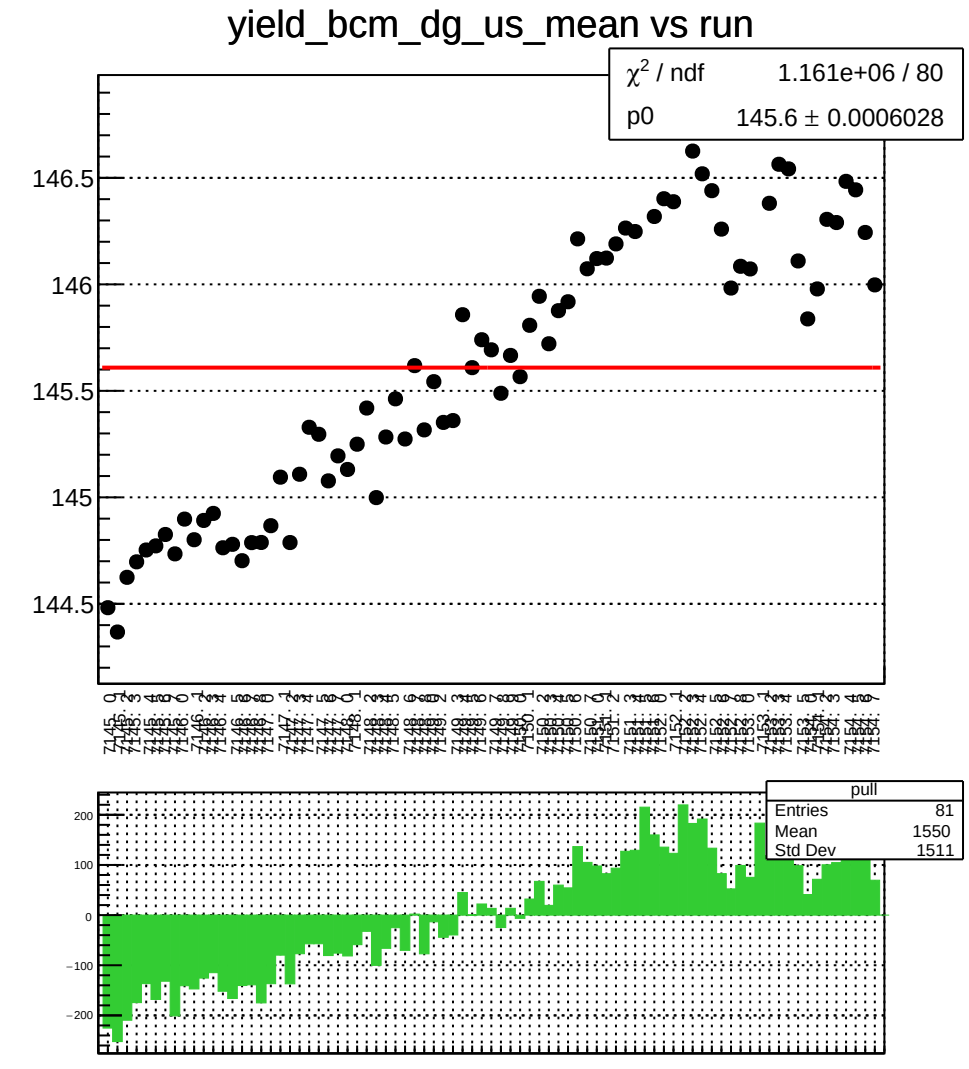

pull1D
Entries 81
Mean −3.438
Std Dev 2.099
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

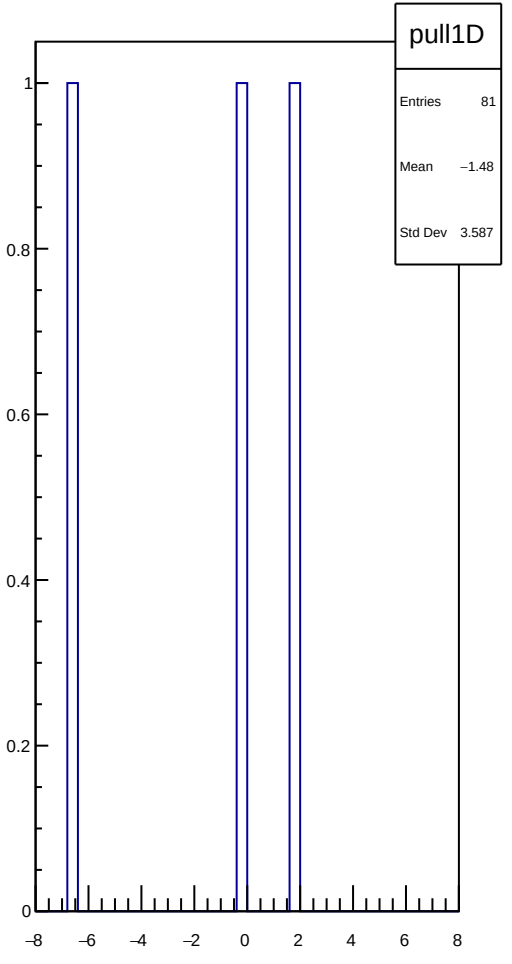

yield_bcm_an_ds3_rms vs run
χ² / ndf 2.03e+04 / 80
p0 0.5349 ± 0.0004331
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

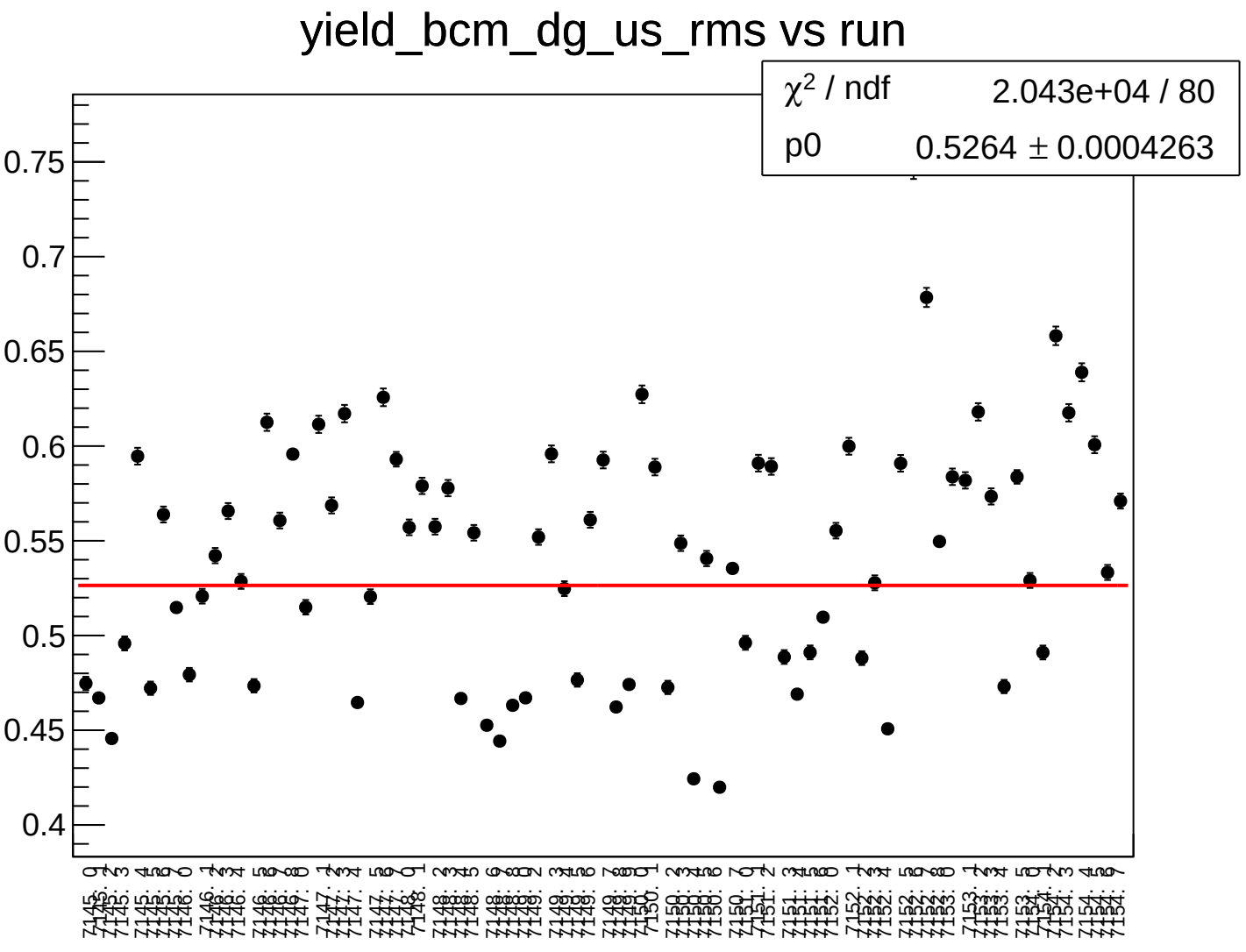

yield_bcm_an_us_mean vs run
χ² / ndf 1.228e+06 / 80
p0 147.2 ± 0.0006068
148.5
148
147.5
147
146.5
146
pull
Entries 81
Mean 3076
Std Dev 3038
200
100
0
−100
−200

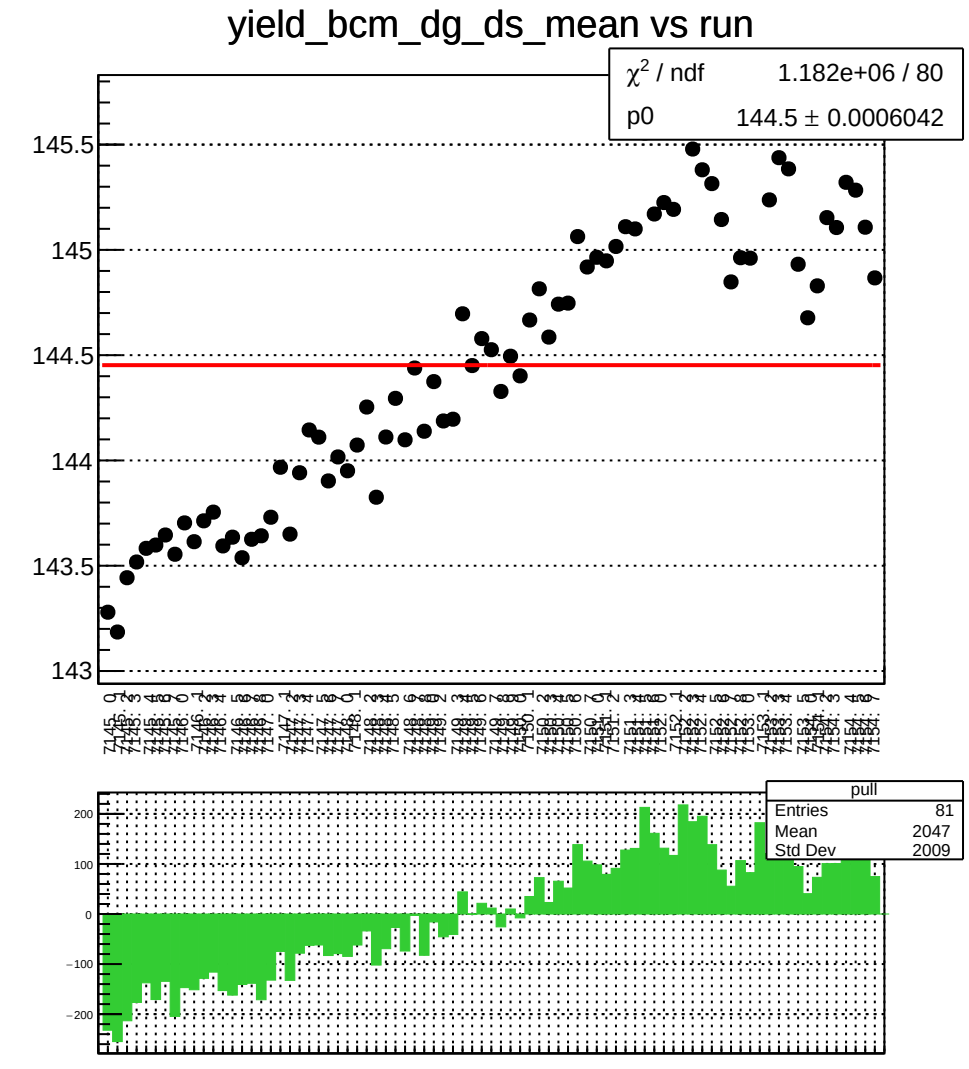

pull1D
Entries 81
Mean −3.596
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

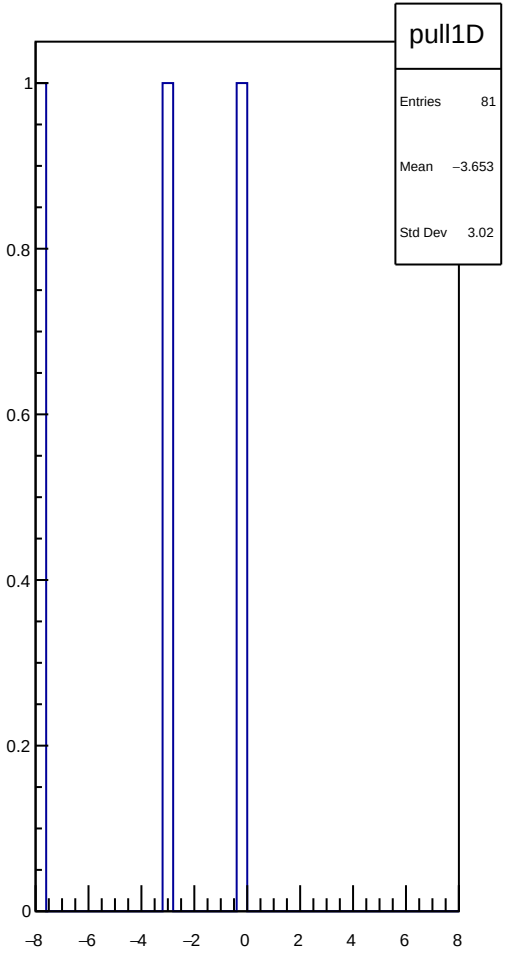

yield_bcm_an_us_rms vs run
χ^2 / ndf 2.028e+04 / 80
p0 0.53 ± 0.0004291
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

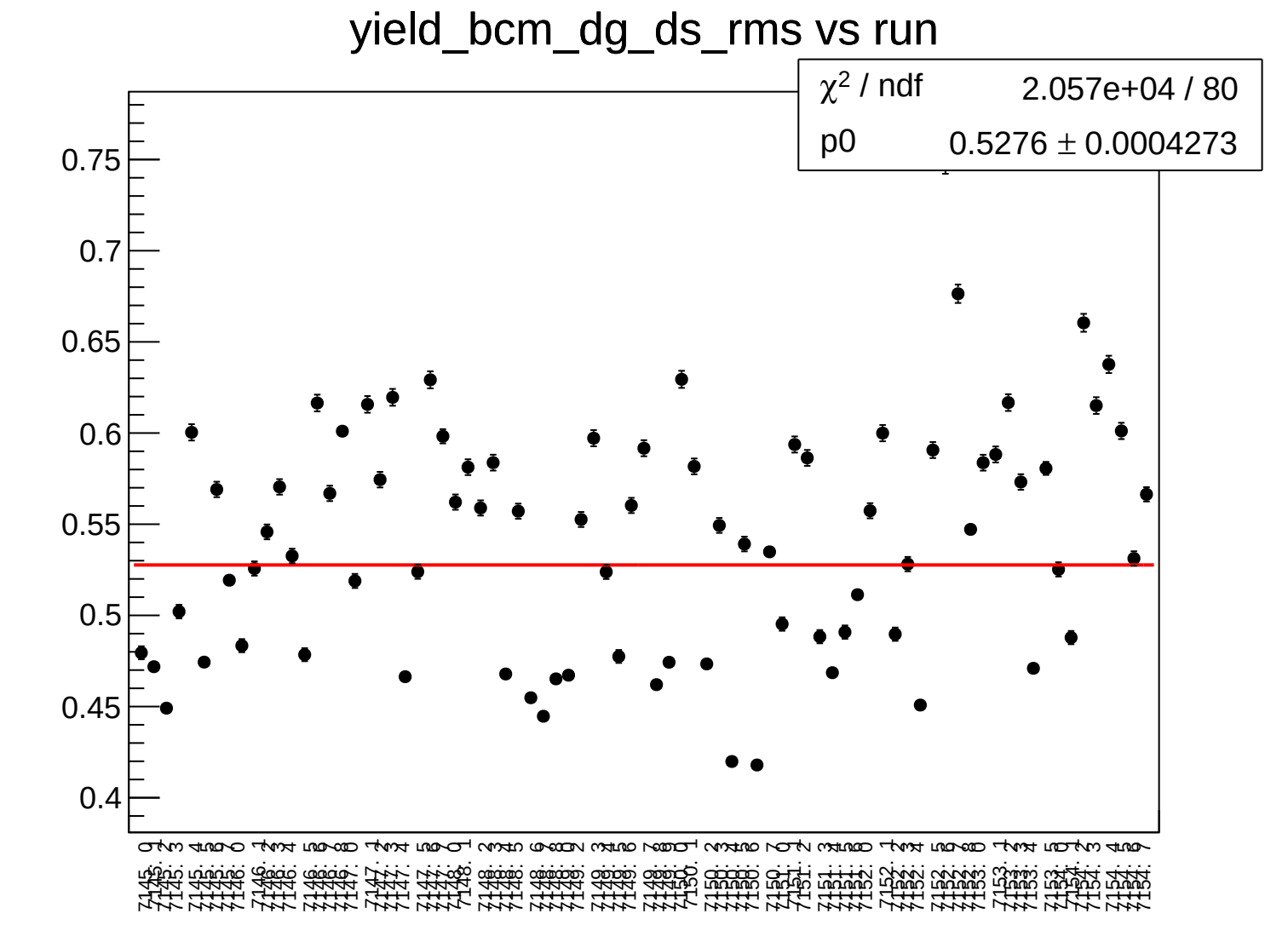

yield_bcm_dg_us_mean vs run
χ² / ndf 1.161e+06 / 80
p0 145.6 ± 0.0006028
146.5
146
145.5
145
144.5
pull
Entries 81
Mean 1550
Std Dev 1511
200
100
0
−100
−200

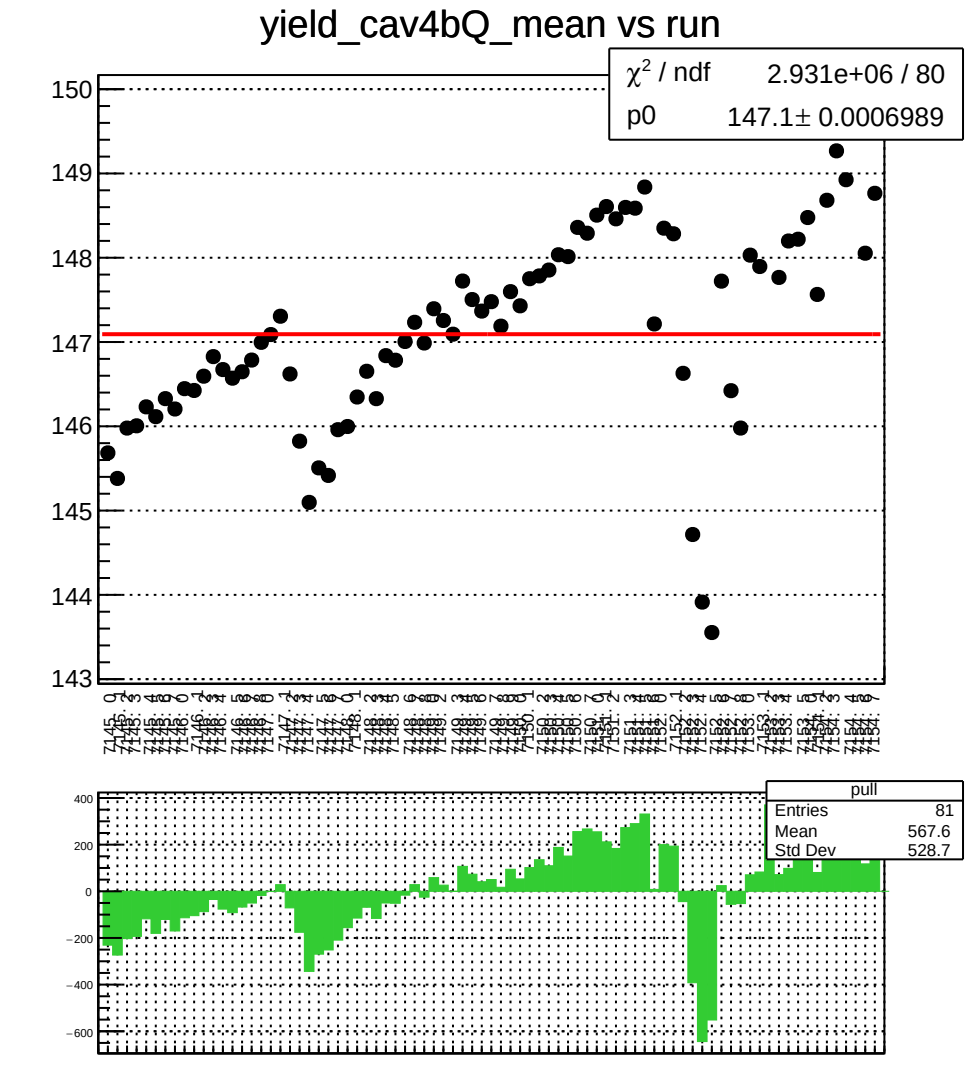

pull1D
Entries 81
Mean −1.48
Std Dev 3.587
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

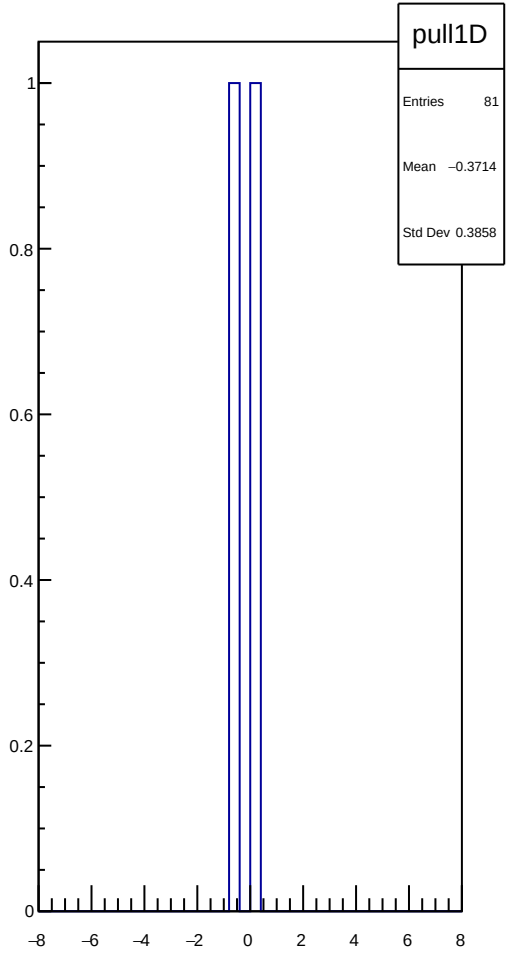

yield_bcm_dg_us_rms vs run
χ² / ndf 2.043e+04 / 80
p0 0.5264 ± 0.0004263
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

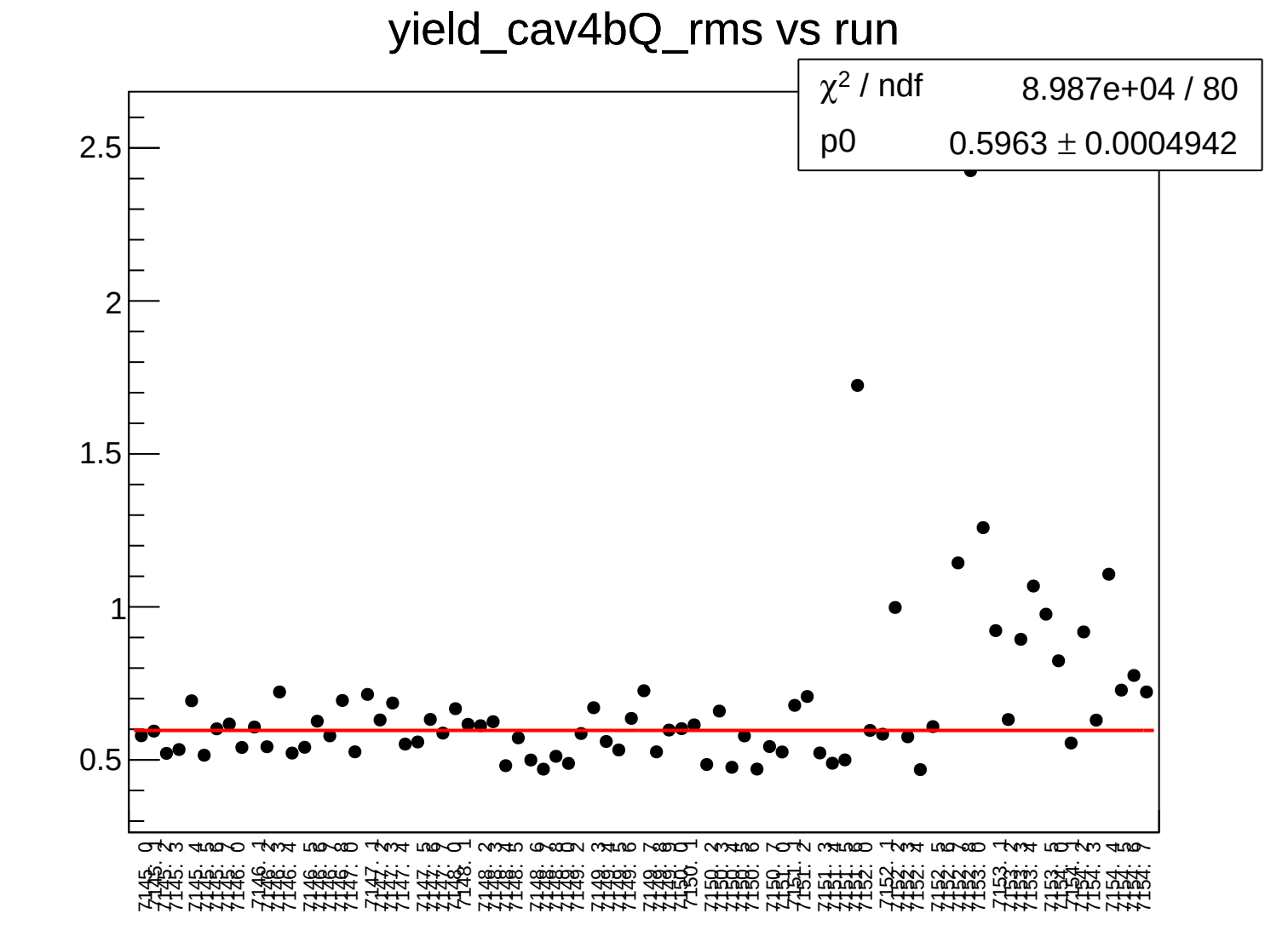

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.182e+06 / 80
p0 144.5 ± 0.0006042
145.5
145
144.5
144
143.5
143
pull
Entries 81
Mean 2047
Std Dev 2009
200
100
0
−100
−200

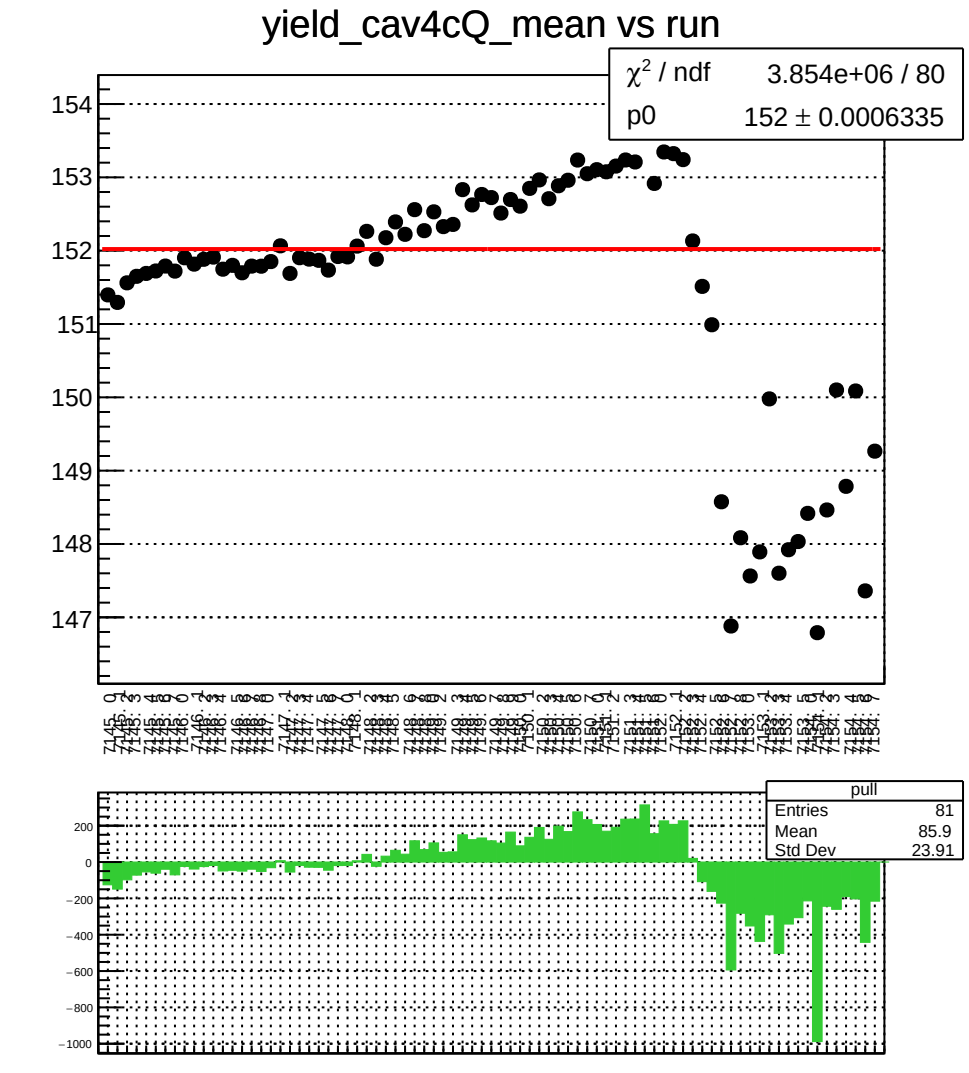

pull1D
Entries 81
Mean −3.653
Std Dev 3.02
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

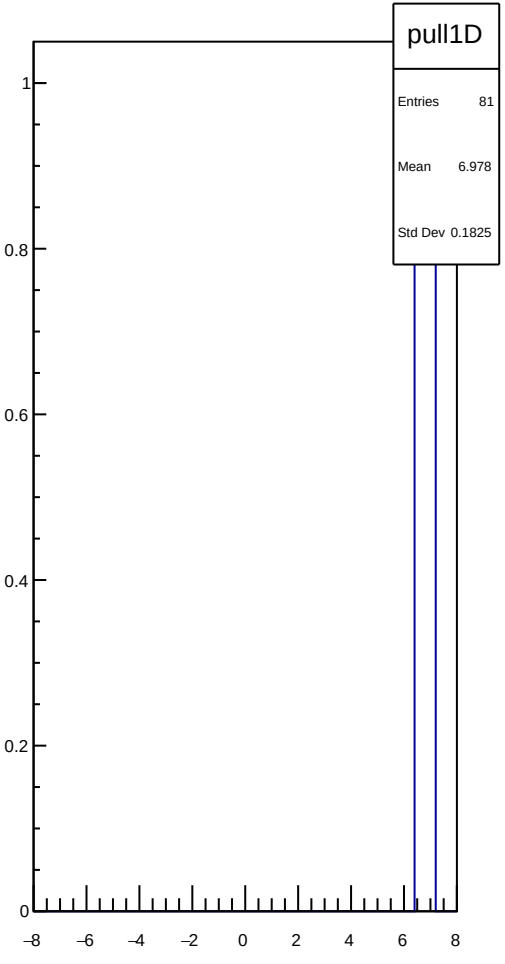

yield_bcm_dg_ds_rms vs run
χ² / ndf 2.057e+04 / 80
p0 0.5276 ± 0.0004273
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

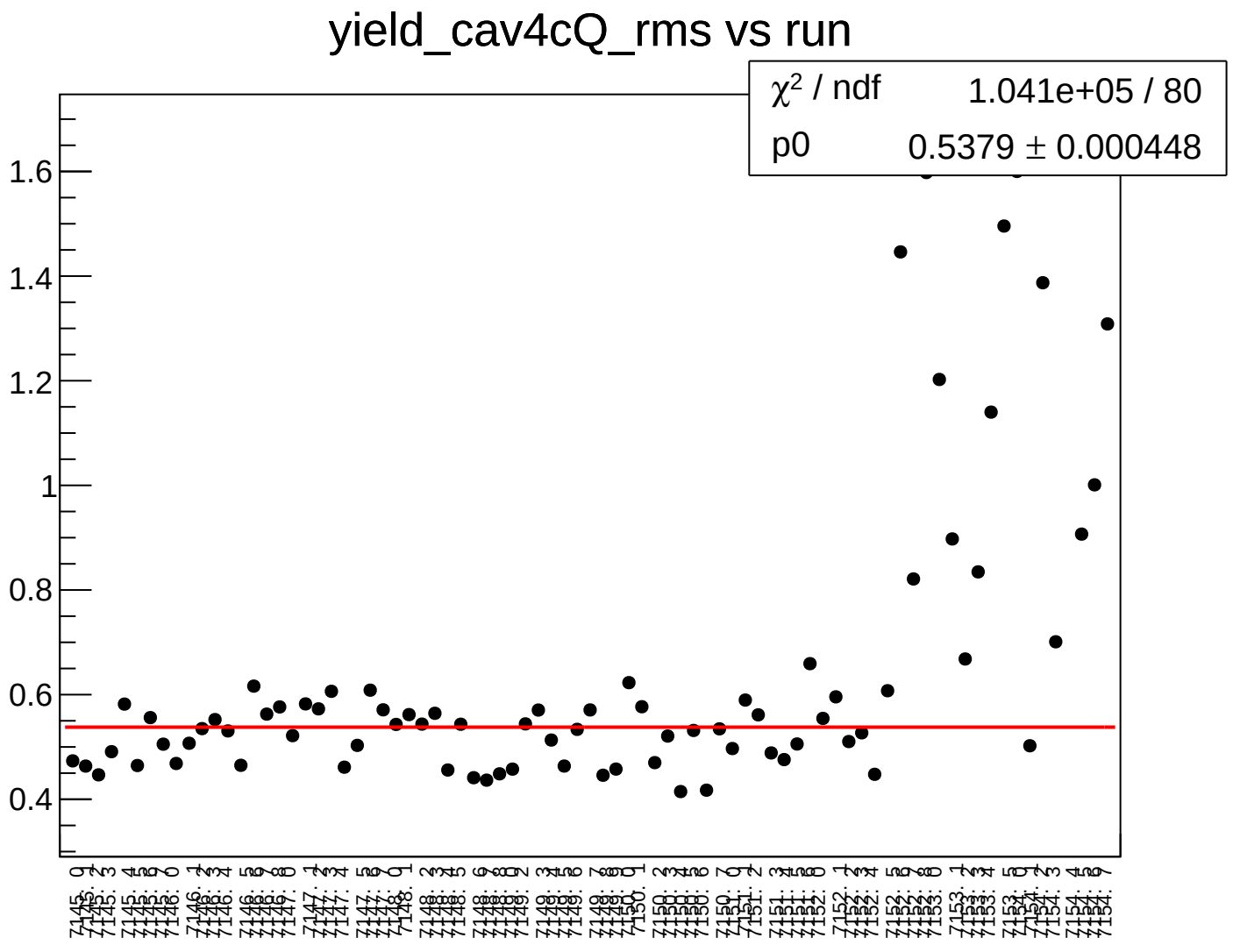

yield_cav4bQ_mean vs run
χ² / ndf 2.931e+06 / 80
p0 147.1± 0.0006989
150
149
148
147
146
145
144
143
pull
Entries 81
Mean 567.6
Std Dev 528.7
400
200
0
−200
−400
−600

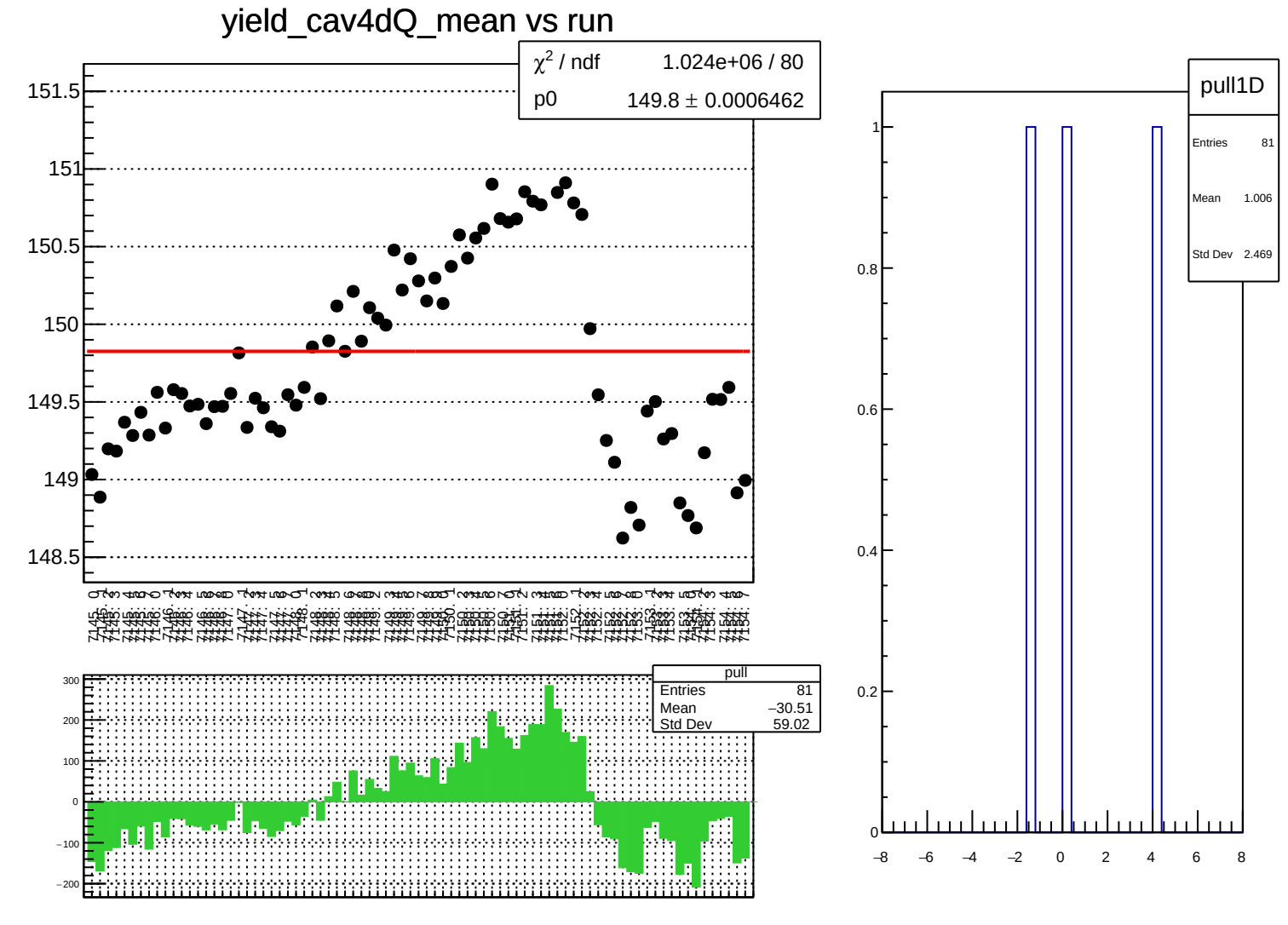

pull1D
Entries 81
Mean −0.3714
Std Dev 0.3858
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

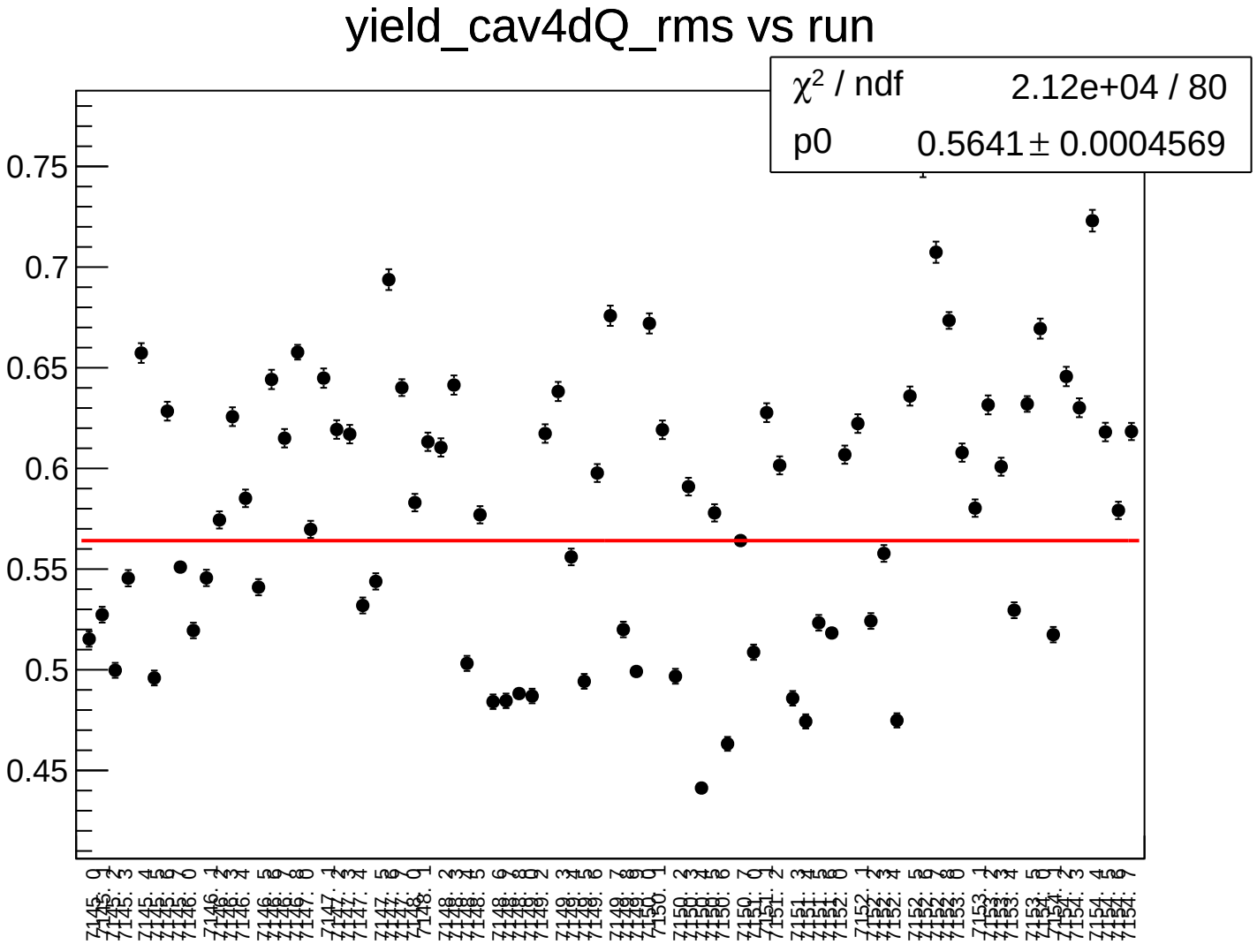

yield_cav4bQ_rms vs run
χ² / ndf 8.987e+04 / 80
p0 0.5963 ± 0.0004942
2.5
2
1.5
1
0.5

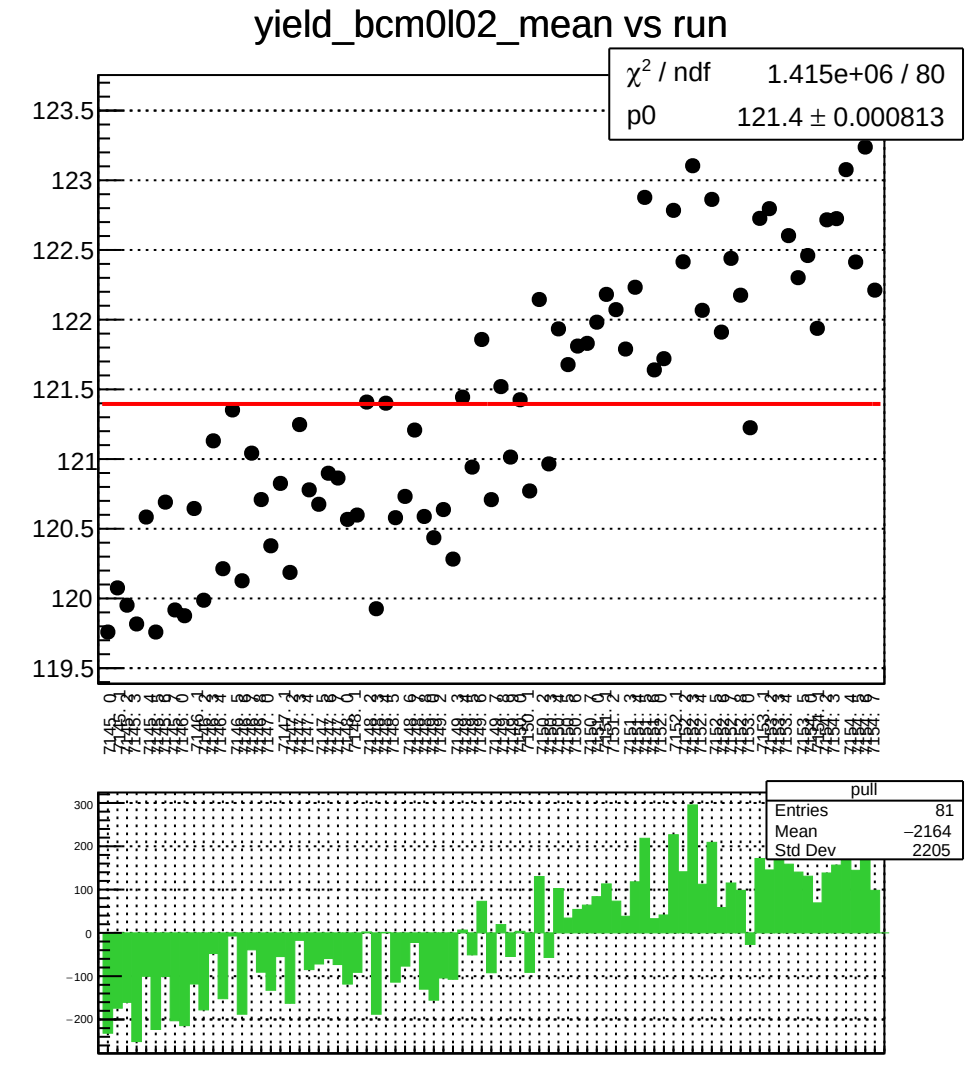

yield_cav4cQ_mean vs run
χ² / ndf 3.854e+06 / 80
p0 152 ± 0.0006335
pull
Entries 81
Mean 85.9
Std Dev 23.91

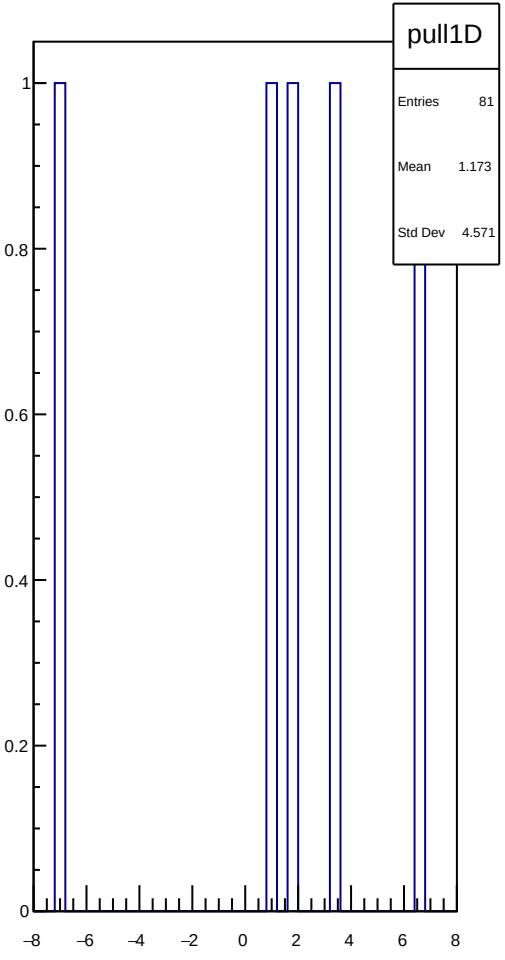

pull1D
Entries 81
Mean 6.978
Std Dev 0.1825

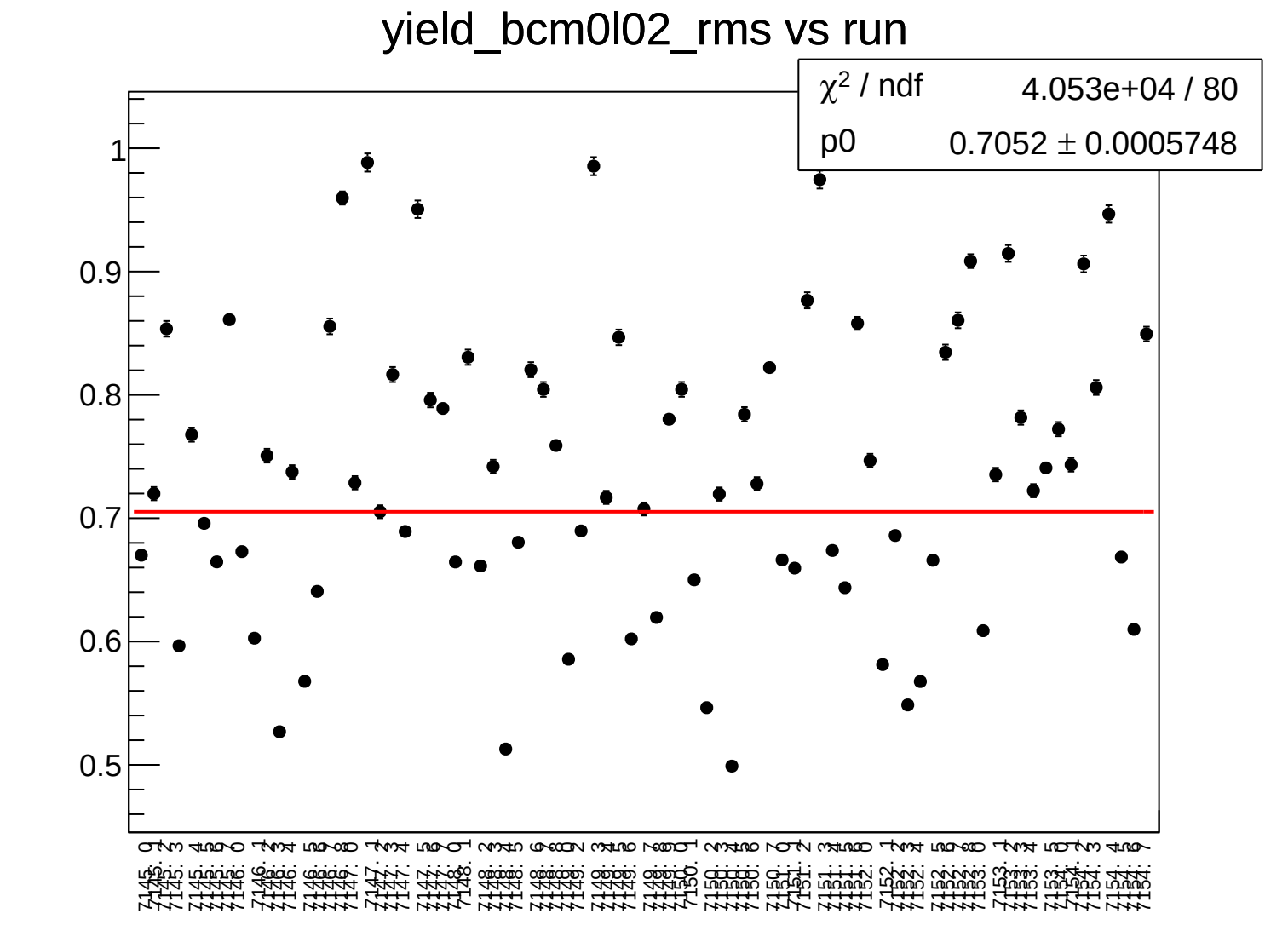

yield_cav4cQ_rms vs run
χ² / ndf 1.041e+05 / 80
p0 0.5379 ± 0.000448
1.6
1.4
1.2
1
0.8
0.6
0.4

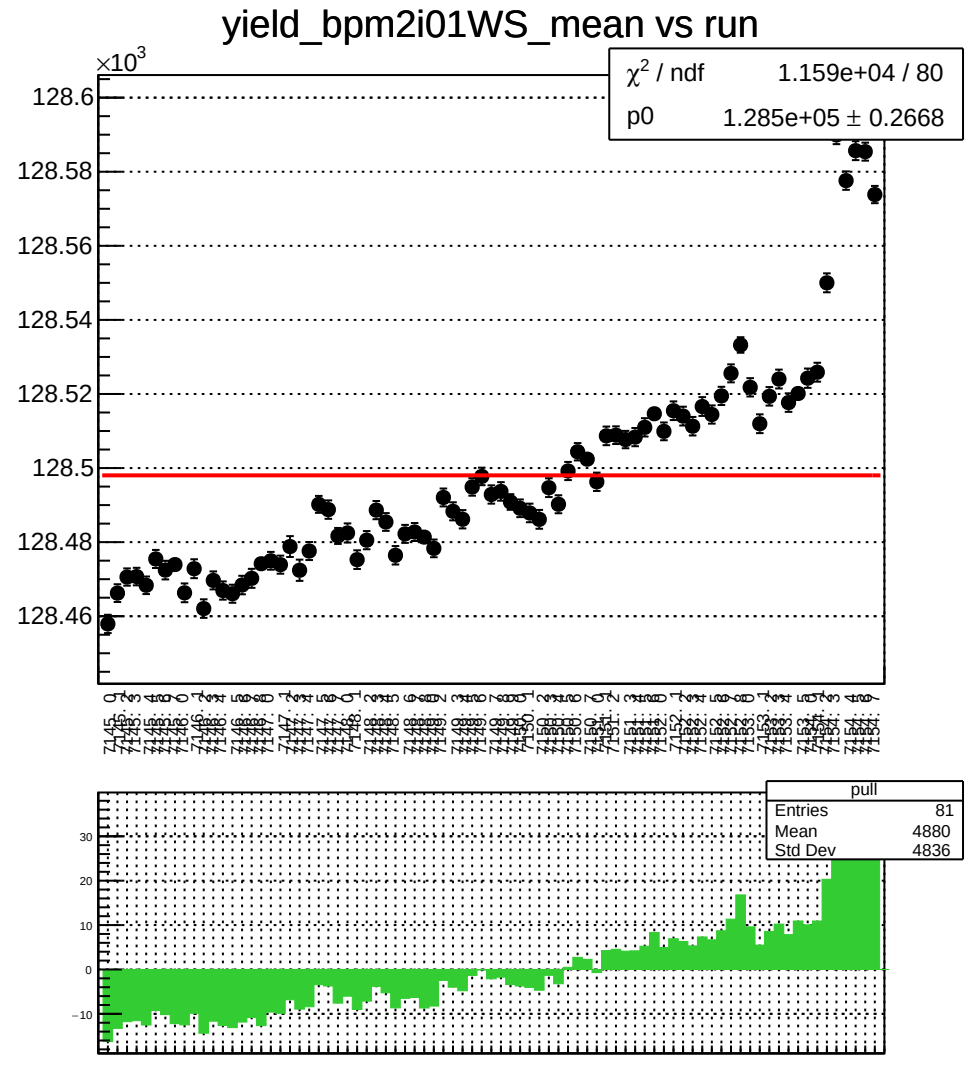

yield_cav4dQ_mean vs run
χ² / ndf 1.024e+06 / 80
p0 149.8 ± 0.0006462
151.5
151
150.5
150
149.5
149
148.5
pull
Entries 81
Mean −30.51
Std Dev 59.02
300
200
100
0
−100
−200
pull1D
Entries 81
Mean 1.006
Std Dev 2.469
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

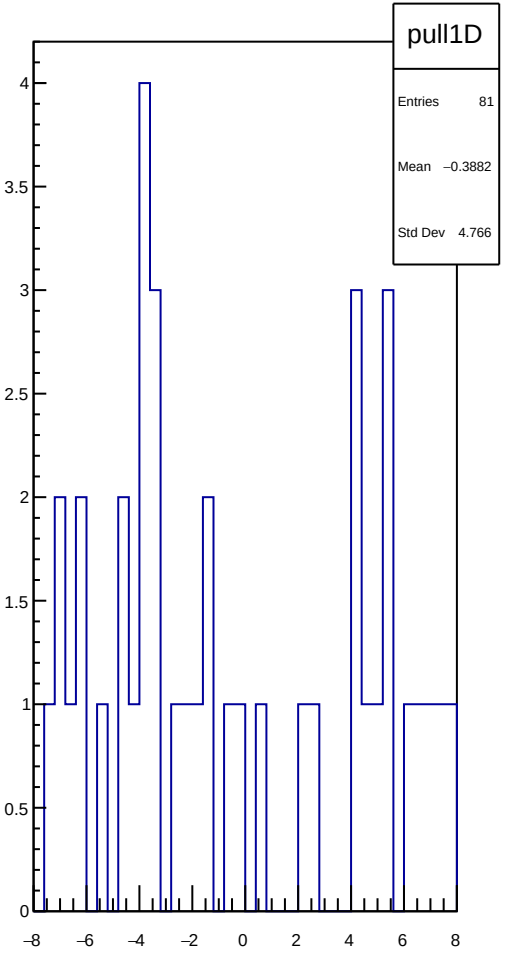

yield_cav4dQ_rms vs run
χ² / ndf 2.12e+04 / 80
p0 0.5641 ± 0.0004569
0.75
0.7
0.65
0.6
0.55
0.5
0.45

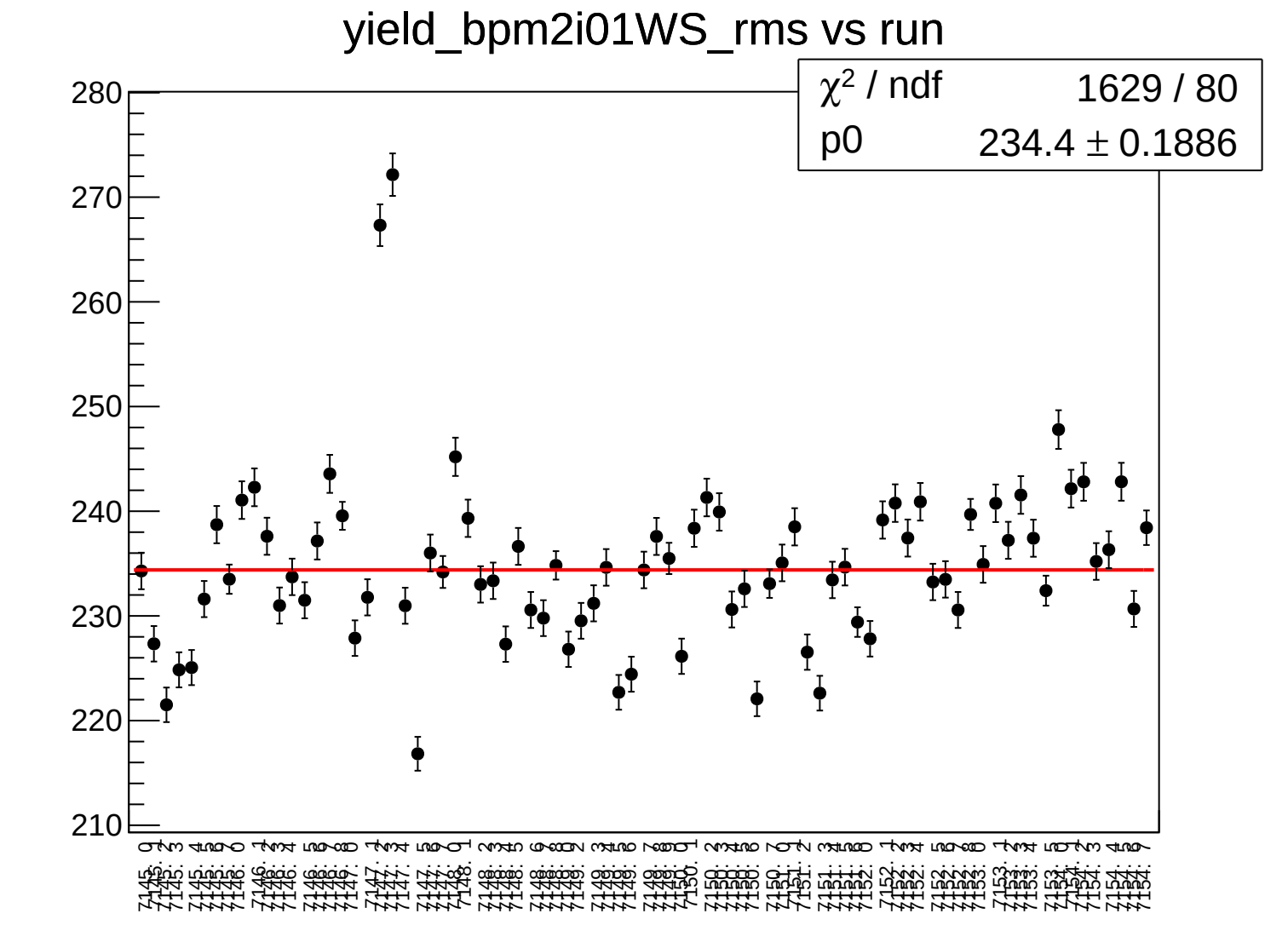

yield_bcm0l02_mean vs run
χ² / ndf 1.415e+06 / 80
p0 121.4 ± 0.000813
123.5
123
122.5
122
121.5
121
120.5
120
119.5
pull
Entries 81
Mean −2164
Std Dev 2205
300
200
100
0
−100
−200

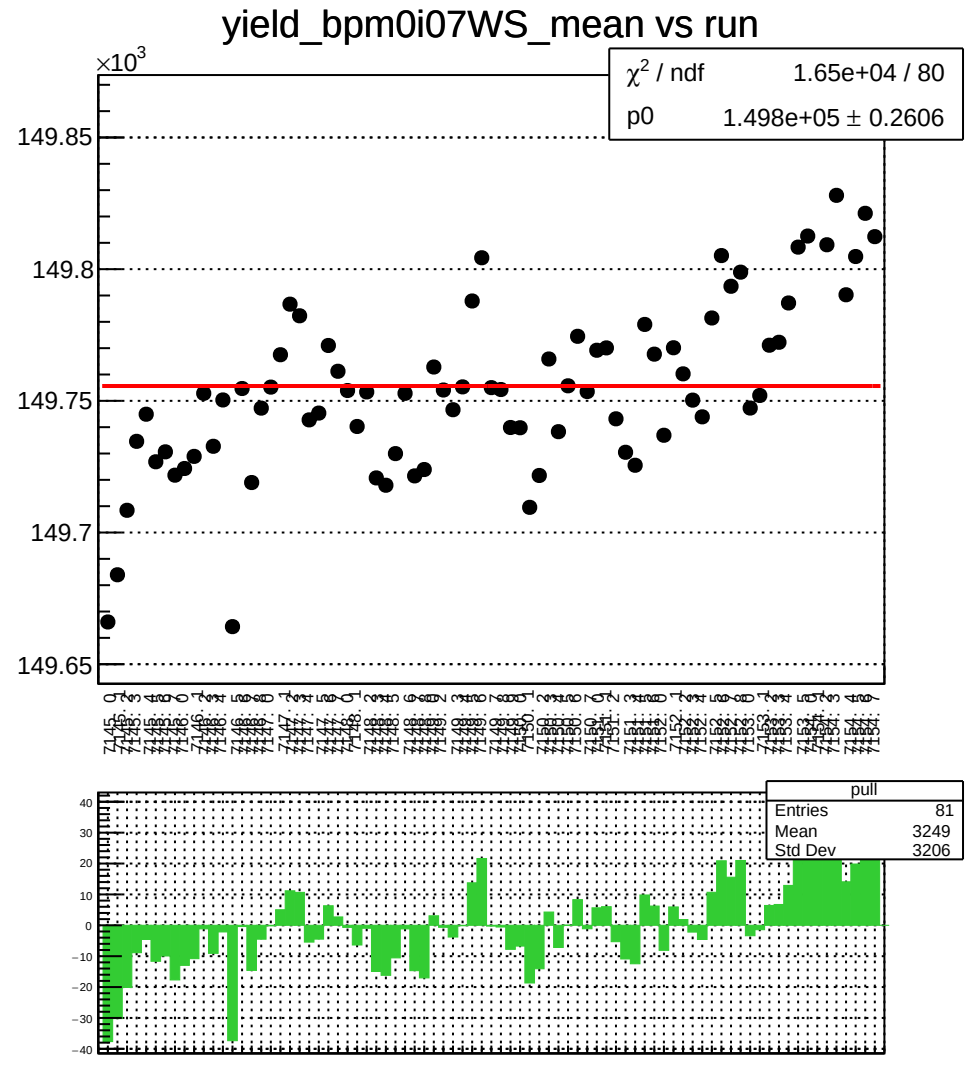

pull1D
Entries 81
Mean 1.173
Std Dev 4.571
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

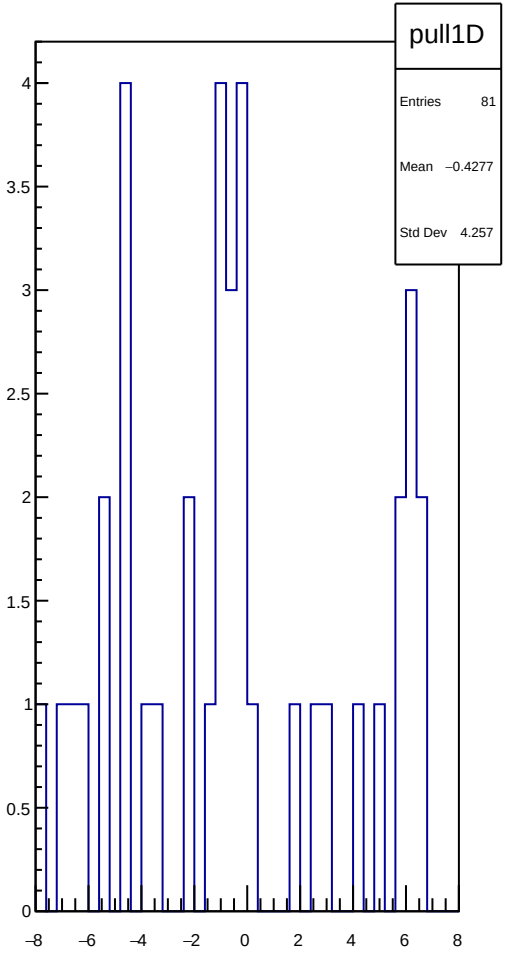

yield_bcm0l02_rms vs run
χ² / ndf 4.053e+04 / 80
p0 0.7052 ± 0.0005748
1
0.9
0.8
0.7
0.6
0.5

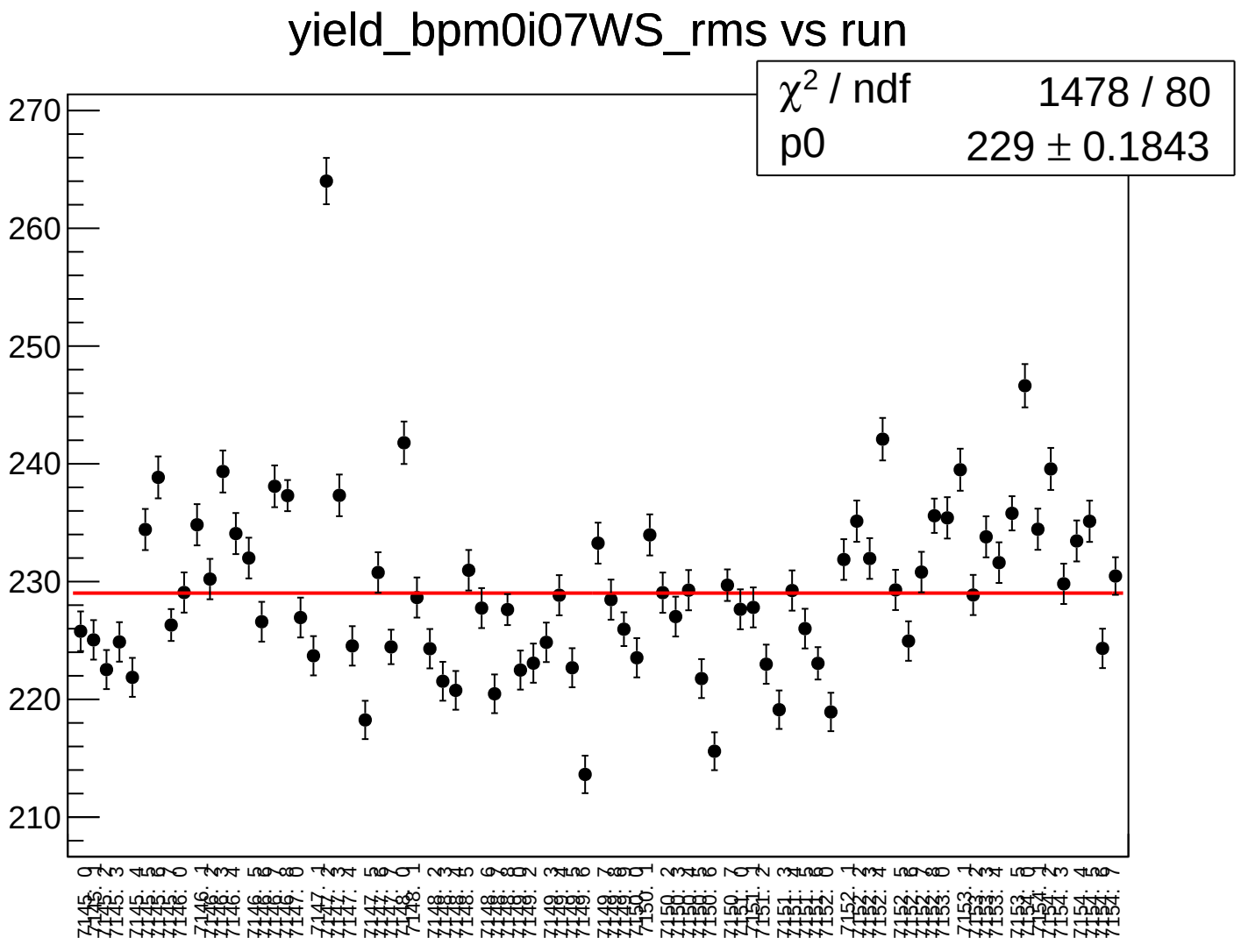

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.159e+04 / 80
p0 1.285e+05 ± 0.2668
128.6
128.58
128.56
128.54
128.52
128.5
128.48
128.46
pull
Entries 81
Mean 4880
Std Dev 4836
30
20
10
0
−10

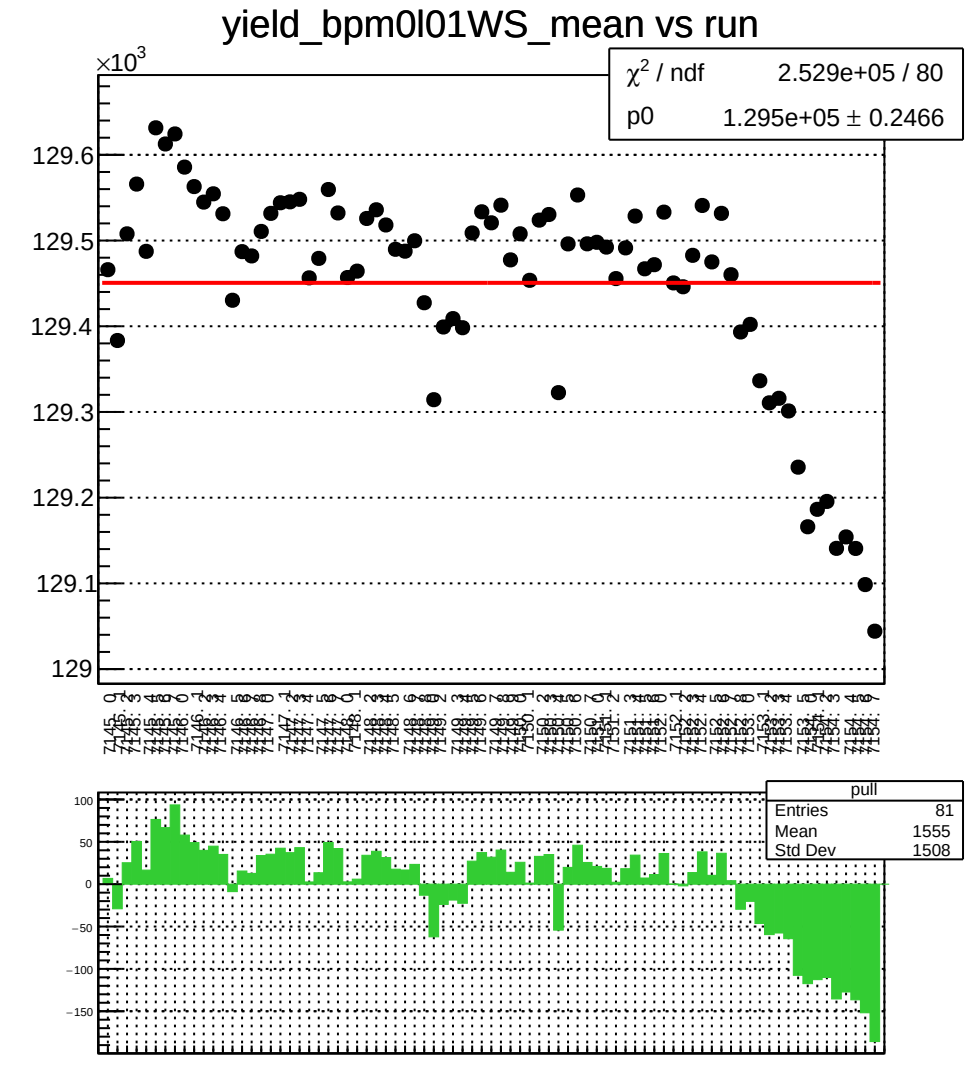

pull1D
Entries 81
Mean −0.3882
Std Dev 4.766
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

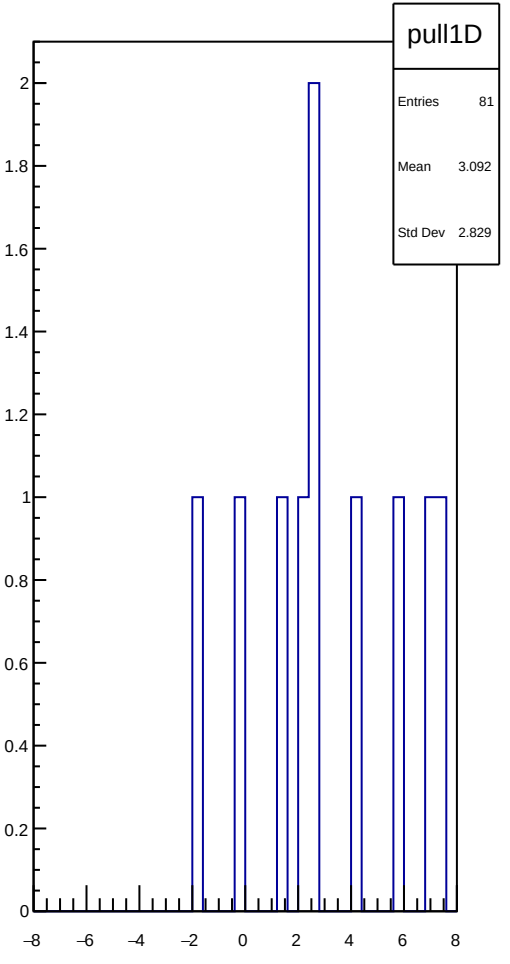

yield_bpm2i01WS_rms vs run
χ² / ndf 1629 / 80
p0 234.4 ± 0.1886
280
270
260
250
240
230
220
210

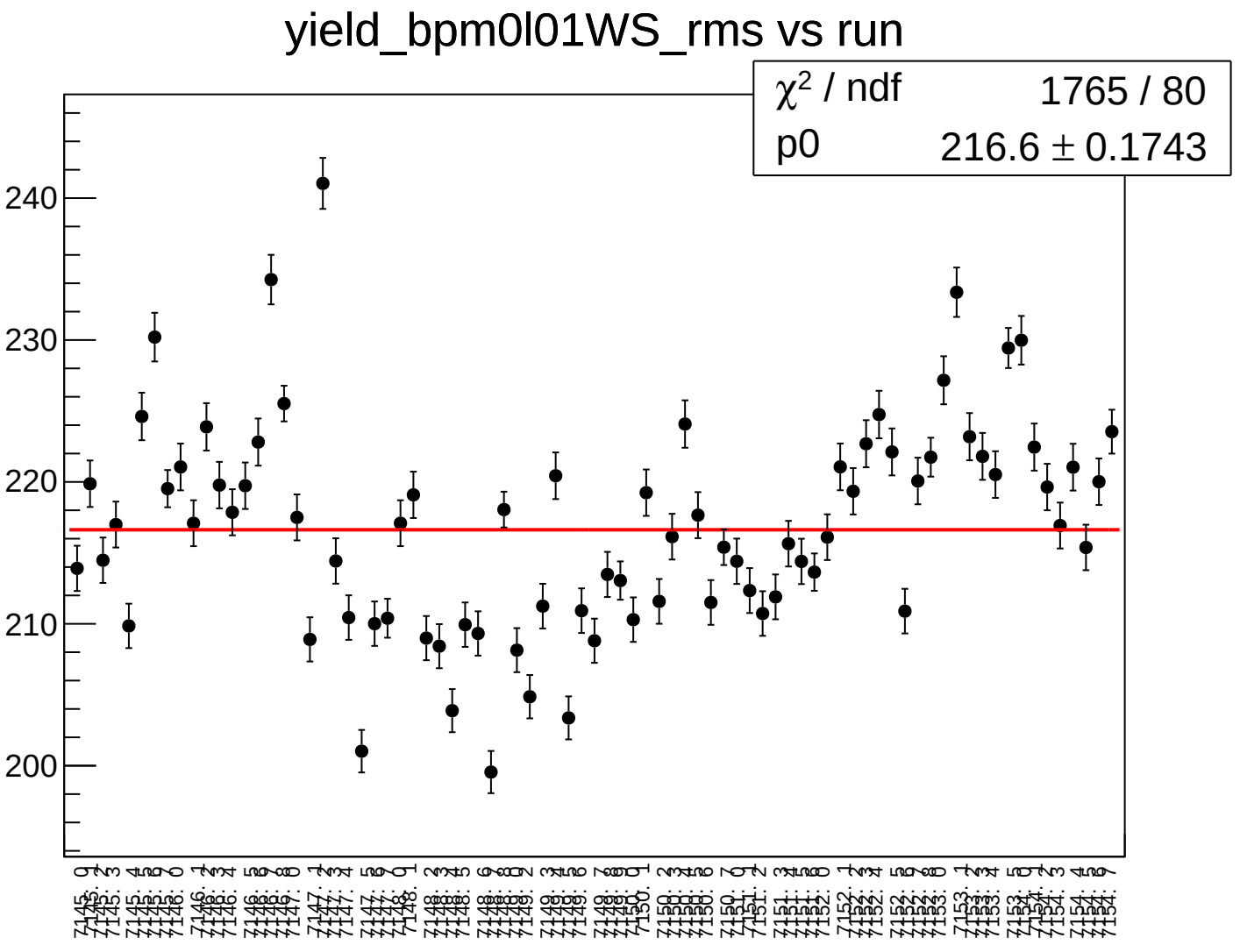

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.65e+04 / 80
p0 1.498e+05 ± 0.2606
149.85
149.8
149.75
149.7
149.65
pull
Entries 81
Mean 3249
Std Dev 3206
40
30
20
10
0
−10
−20
−30
−40

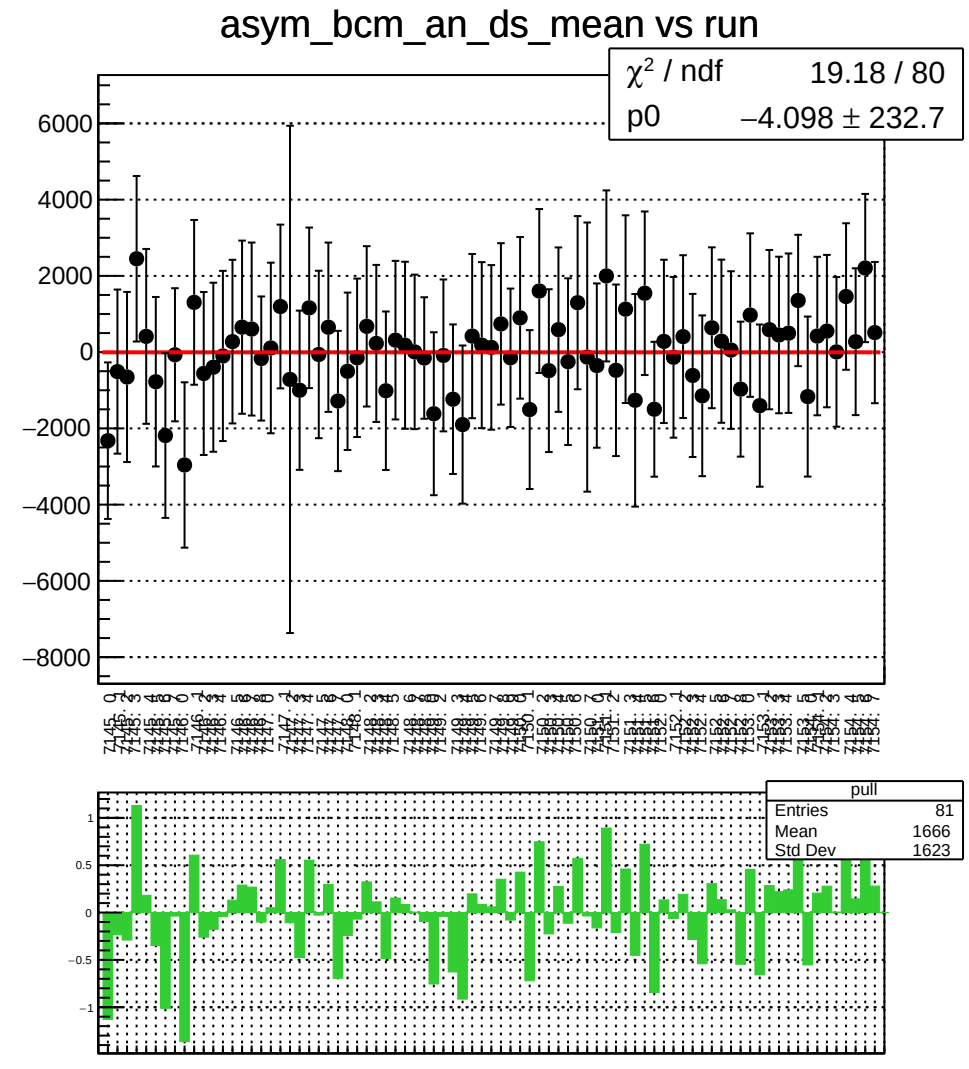

pull1D
Entries 81
Mean −0.4277
Std Dev 4.257
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

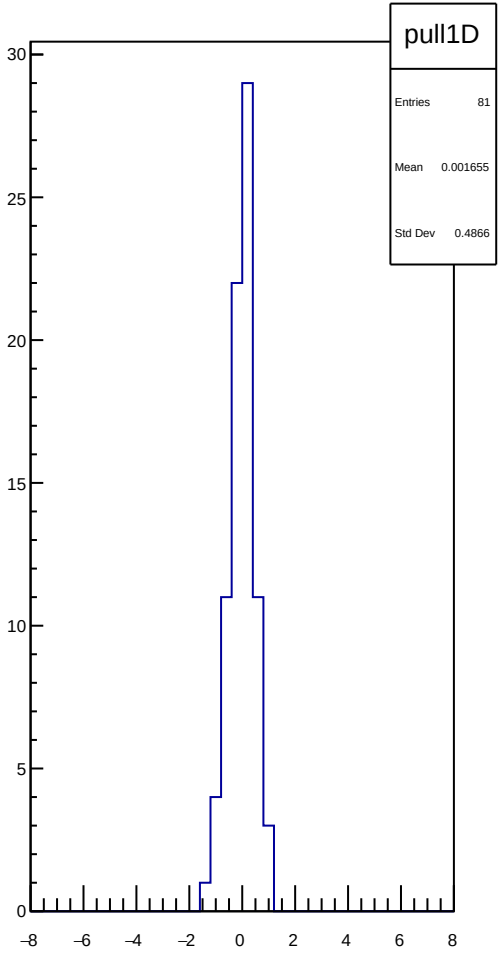

yield_bpm0i07WS_rms vs run
χ² / ndf 1478 / 80
p0 229 ± 0.1843
270
260
250
240
230
220
210

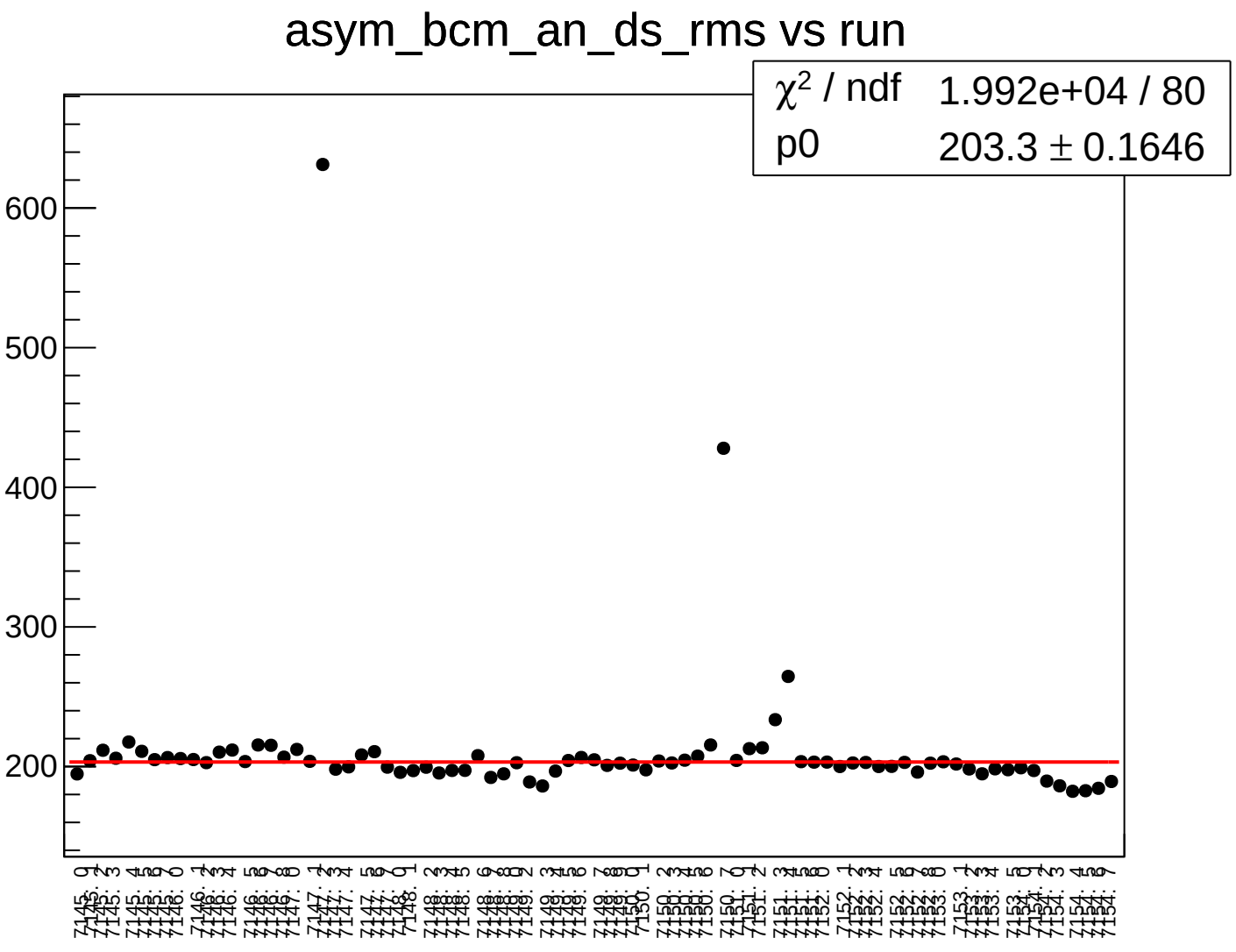

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.529e+05 / 80
p0 1.295e+05 ± 0.2466
129.6
129.5
129.4
129.3
129.2
129.1
129
pull
Entries 81
Mean 1555
Std Dev 1508
100
50
0
−50
−100
−150

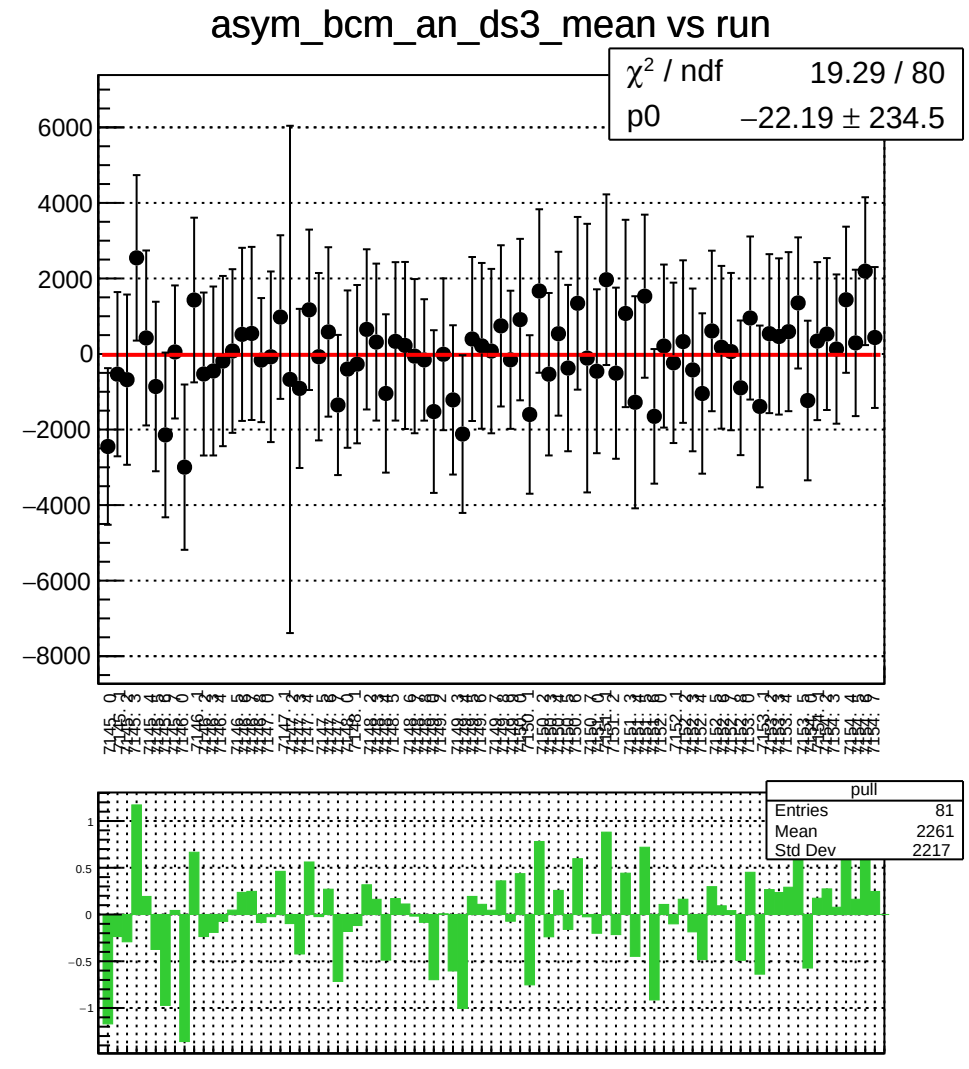

pull1D
Entries 81
Mean 3.092
Std Dev 2.829
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

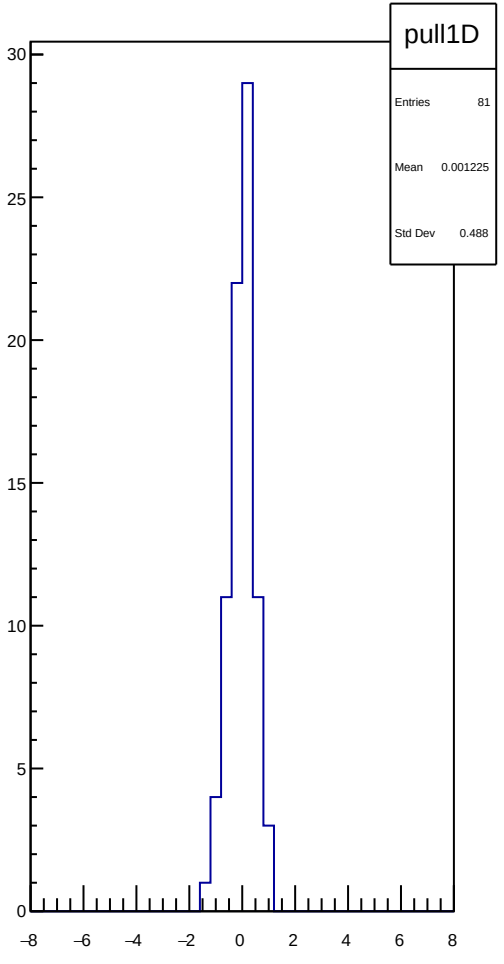

yield_bpm0l01WS_rms vs run
χ² / ndf 1765 / 80
p0 216.6 ± 0.1743
240
230
220
210
200

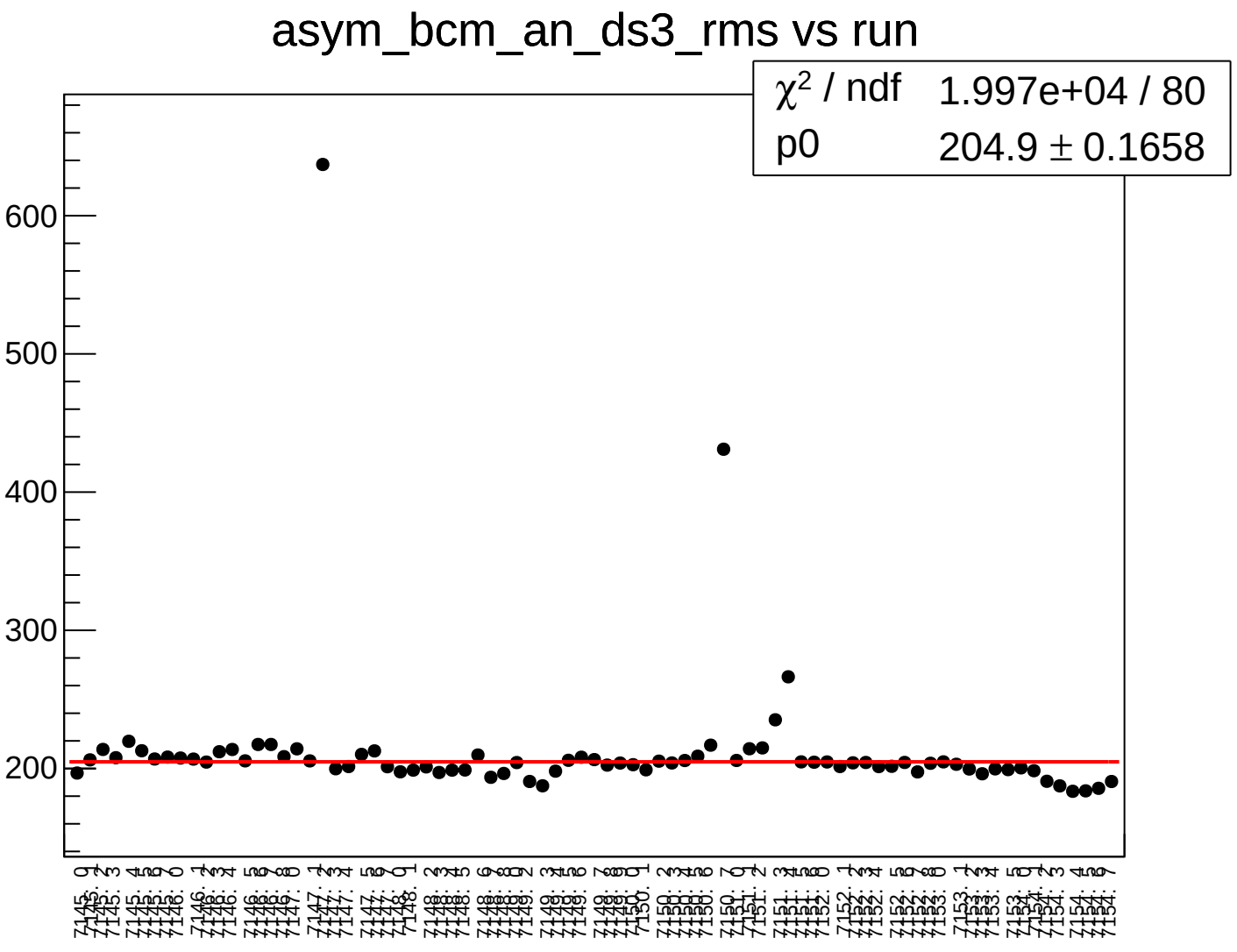

asym_bcm_an_ds_mean vs run
χ² / ndf 19.18 / 80
p0 −4.098 ± 232.7
pull
Entries 81
Mean 1666
Std Dev 1623

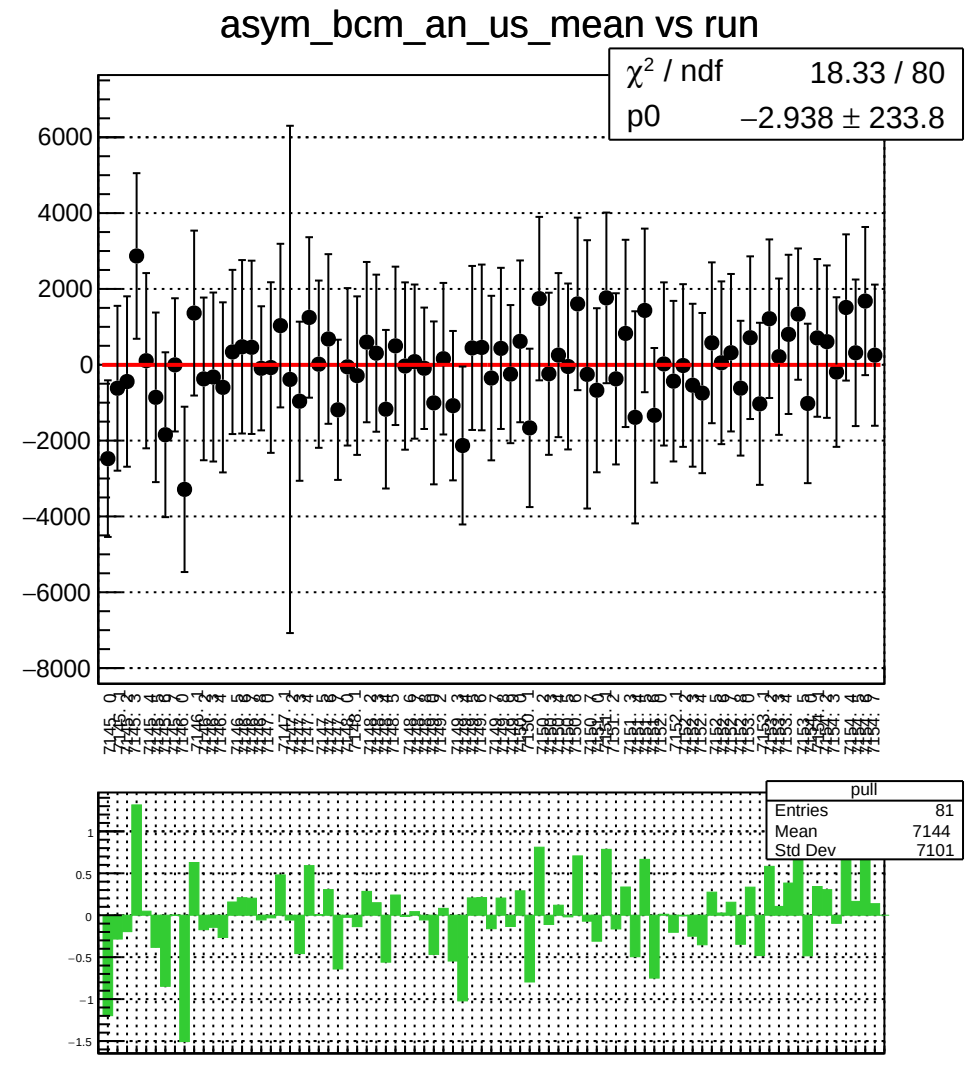

pull1D
Entries 81
Mean 0.001655
Std Dev 0.4866

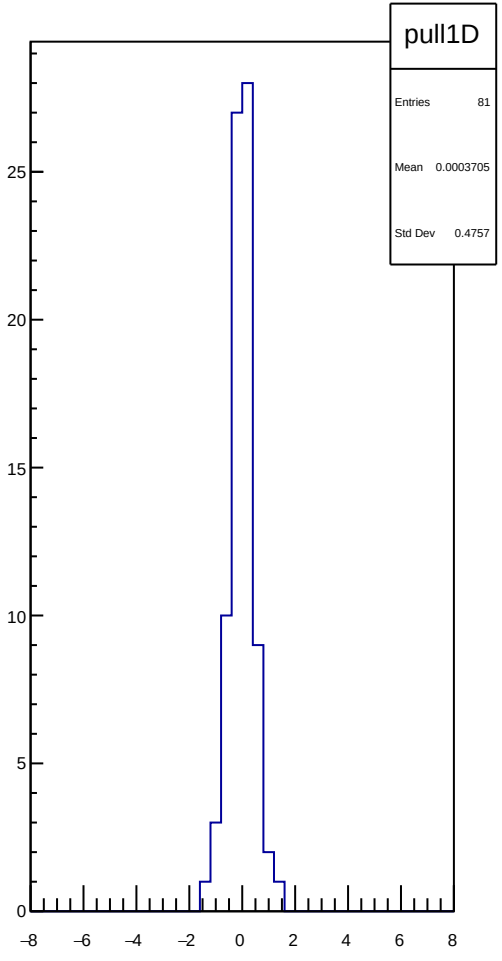

asym_bcm_an_ds_rms vs run
χ^2 / ndf 1.992e+04 / 80
p0 203.3 ± 0.1646
600
500
400
300
200

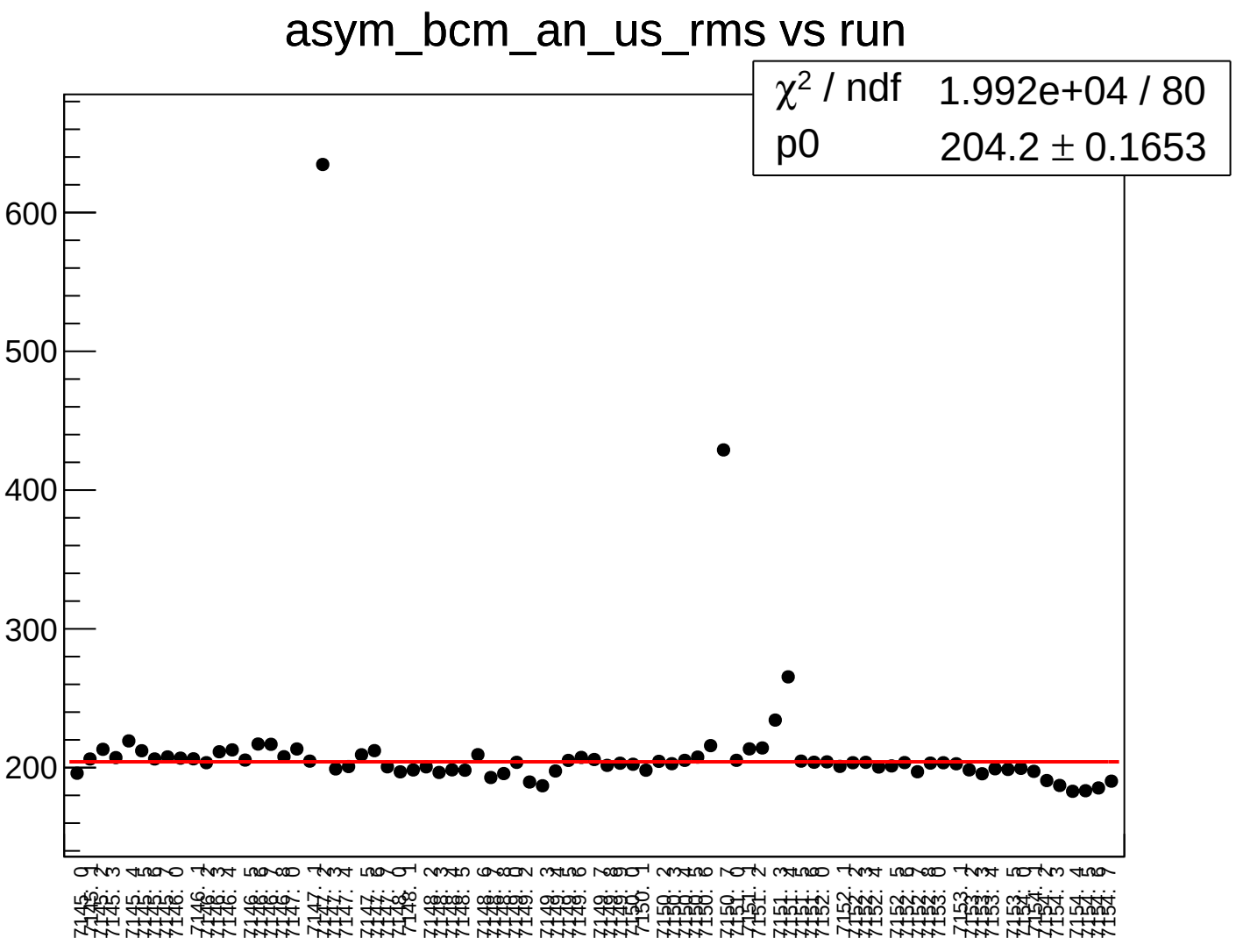

asym_bcm_an_ds3_mean vs run
χ² / ndf 19.29 / 80
p0 −22.19 ± 234.5
pull
Entries 81
Mean 2261
Std Dev 2217

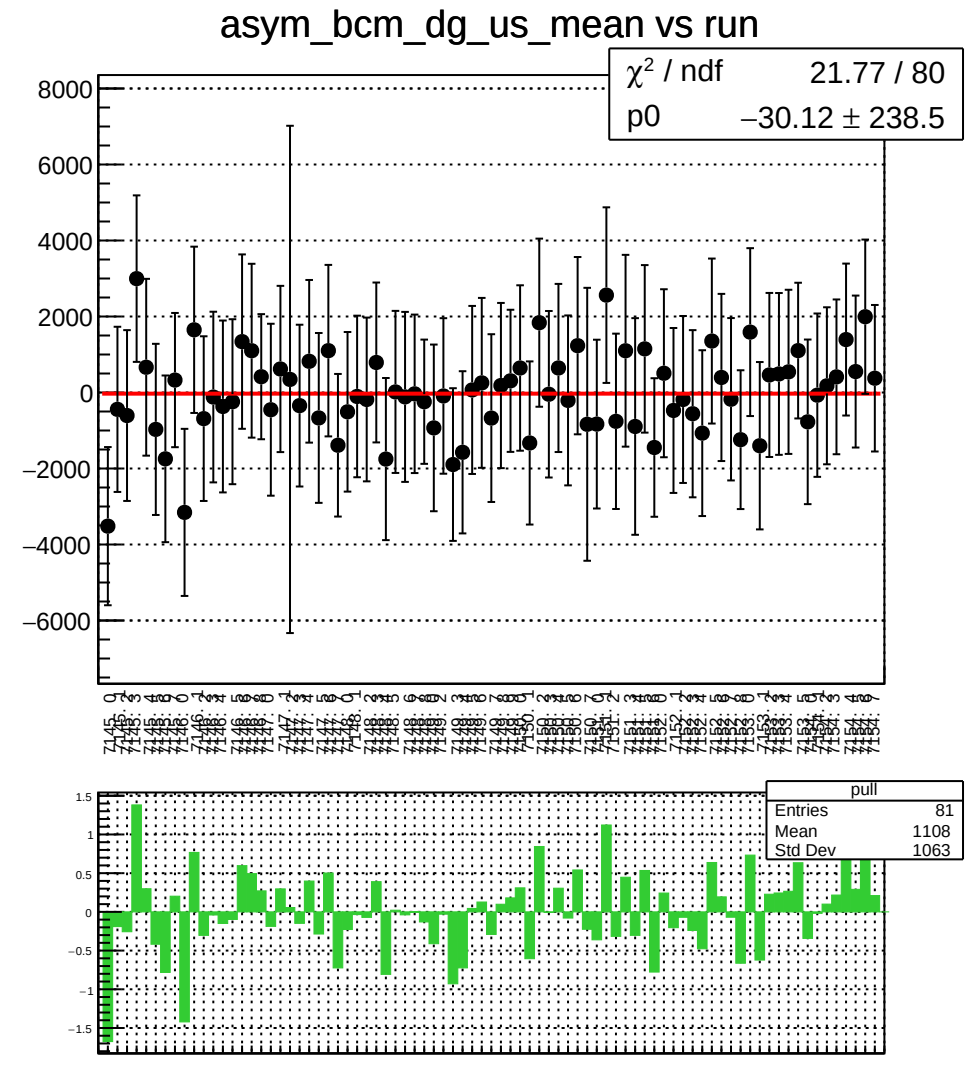

pull1D
Entries 81
Mean 0.001225
Std Dev 0.488

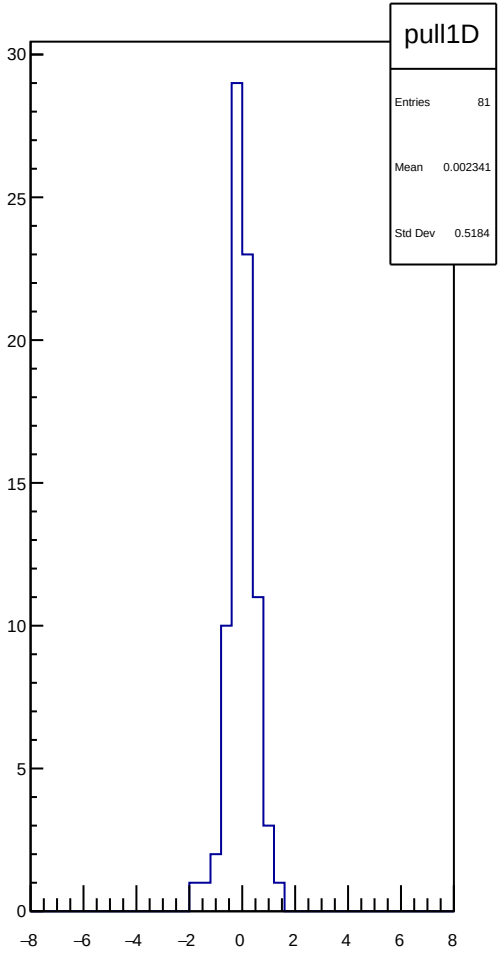

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 1.997e+04 / 80
p0 204.9 ± 0.1658
600
500
400
300
200

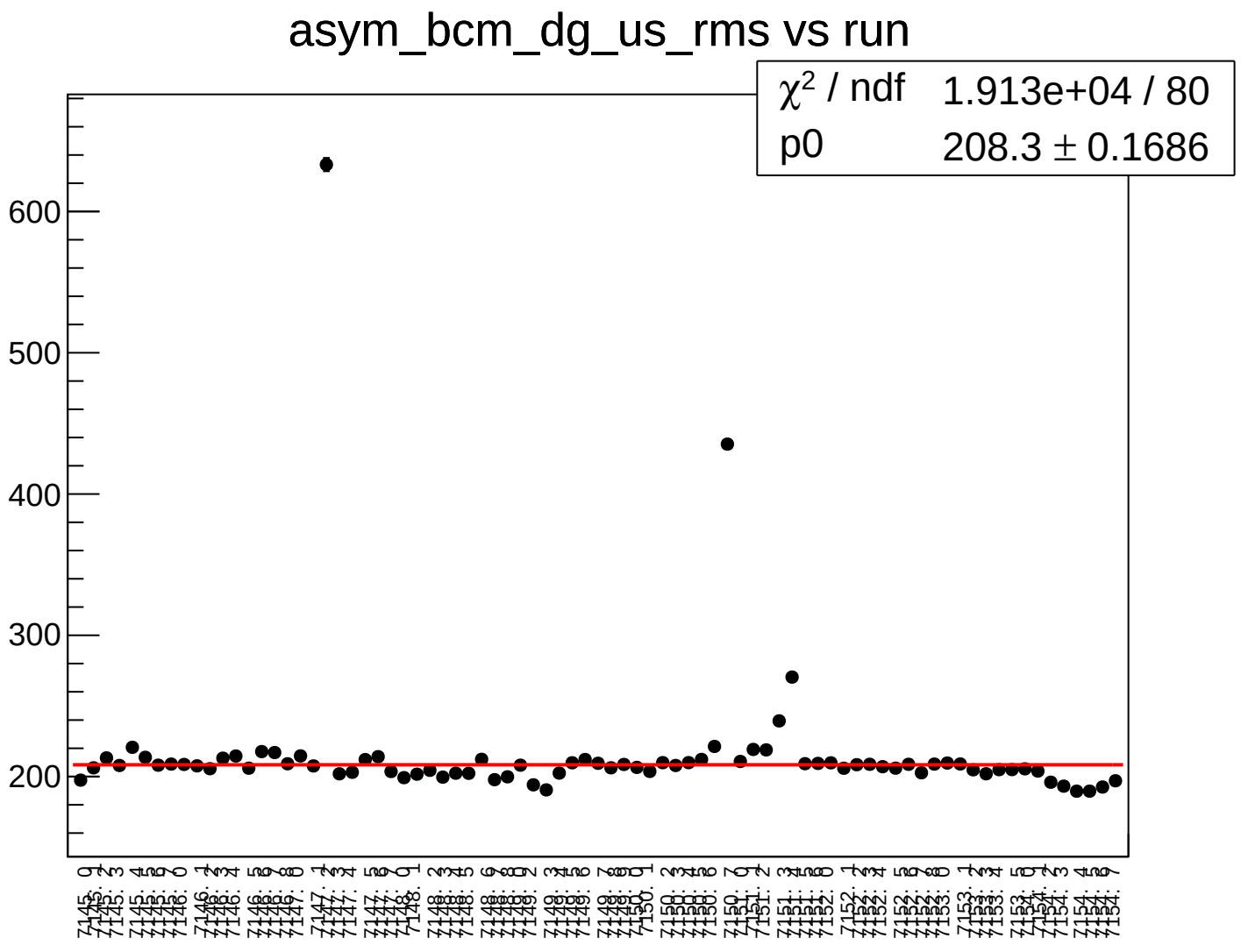

asym_bcm_an_us_mean vs run
χ² / ndf 18.33 / 80
p0 −2.938 ± 233.8
pull
Entries 81
Mean 7144
Std Dev 7101

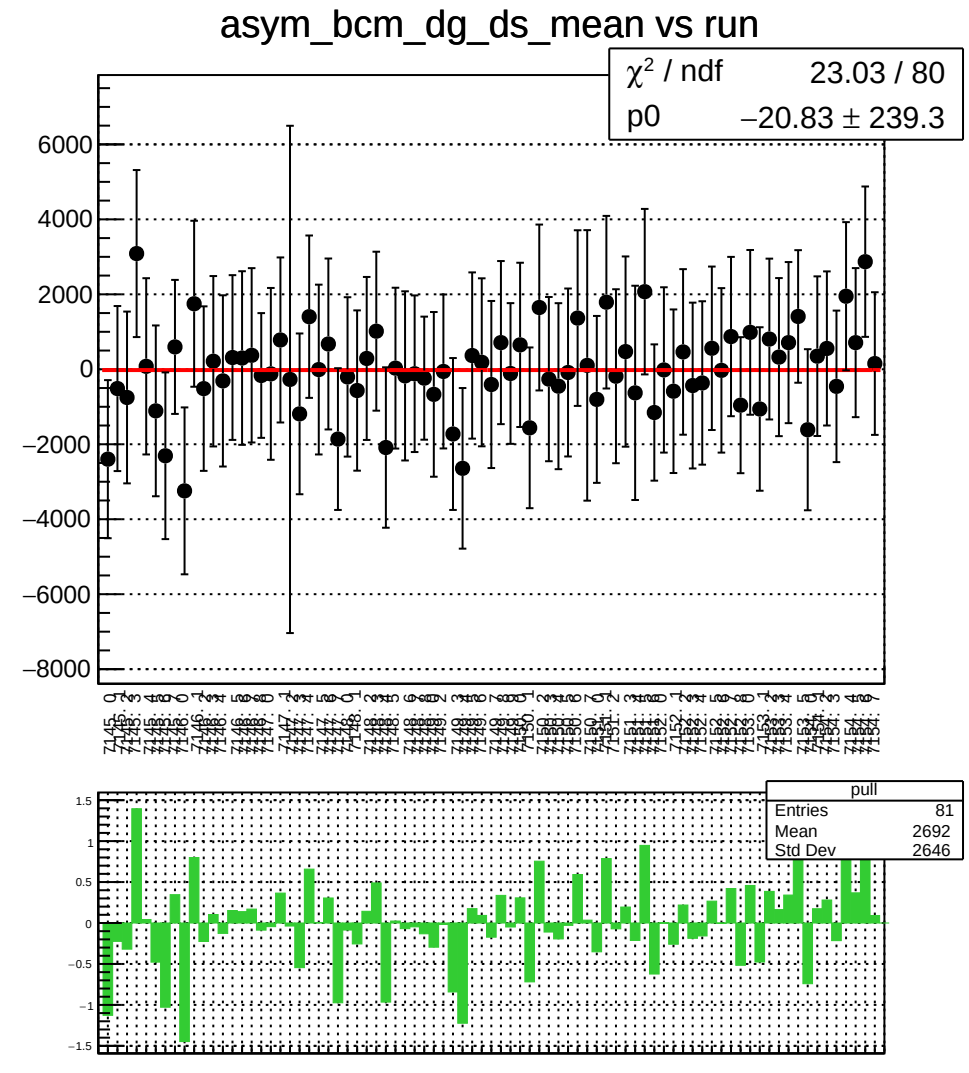

pull1D
Entries 81
Mean 0.0003705
Std Dev 0.4757

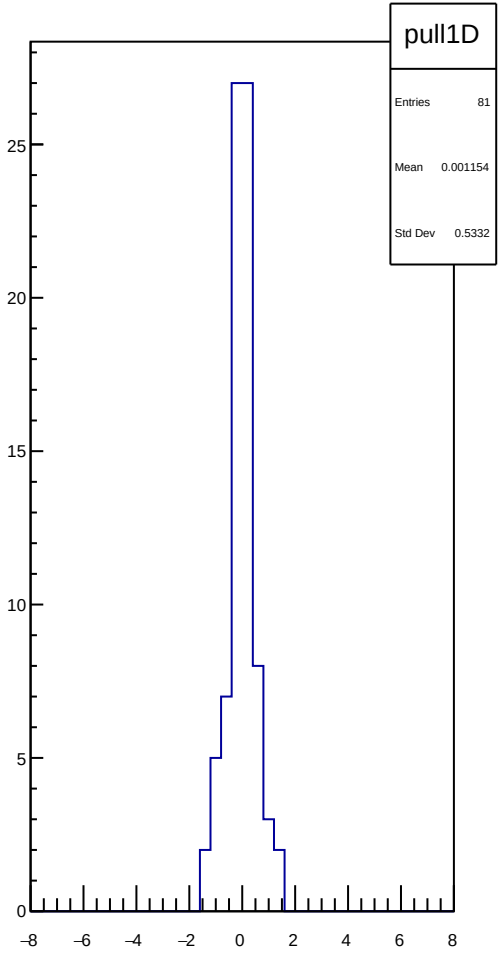

asym_bcm_an_us_rms vs run
χ² / ndf 1.992e+04 / 80
p0 204.2 ± 0.1653
600
500
400
300
200

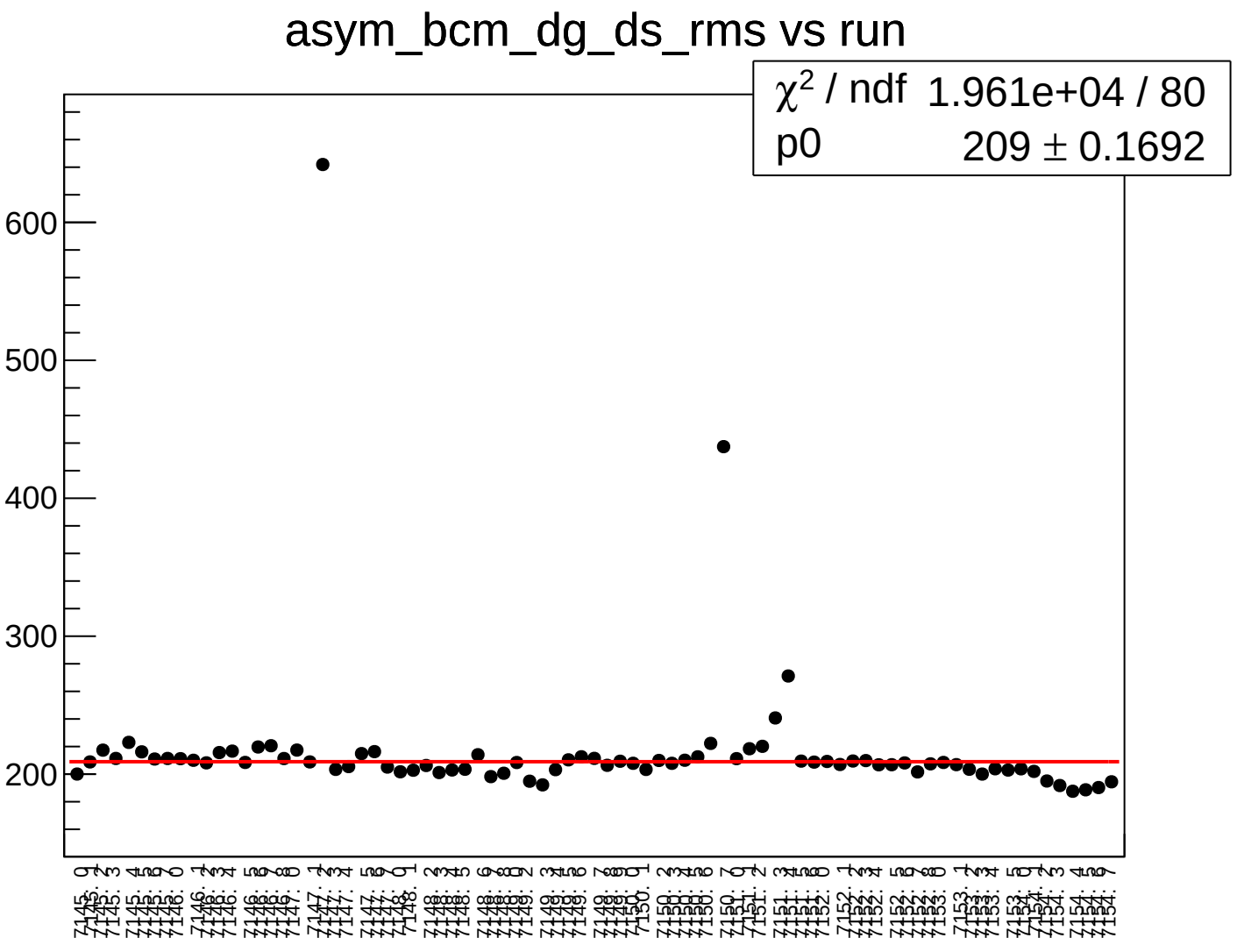

asym_bcm_dg_us_mean vs run
χ² / ndf 21.77 / 80
p0 −30.12 ± 238.5
pull
Entries 81
Mean 1108
Std Dev 1063

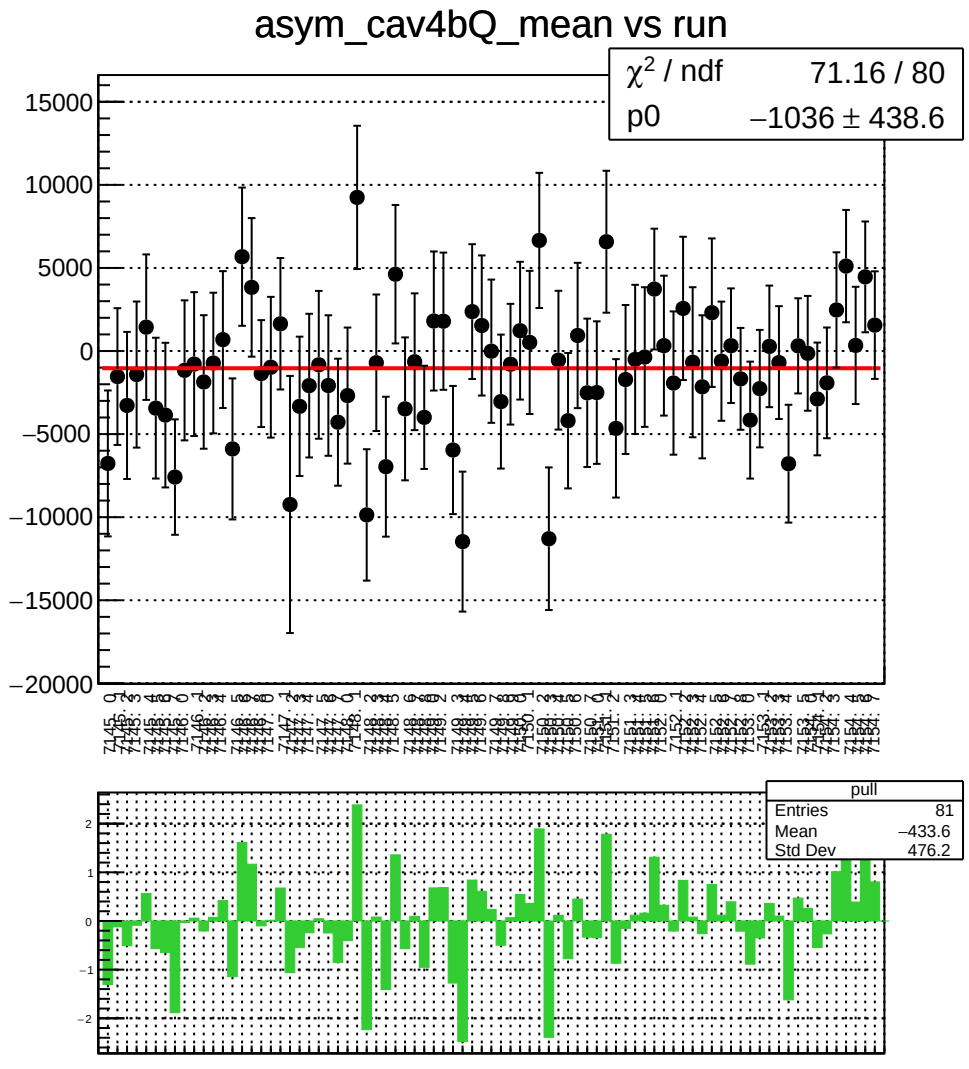

pull1D
Entries 81
Mean 0.002341
Std Dev 0.5184

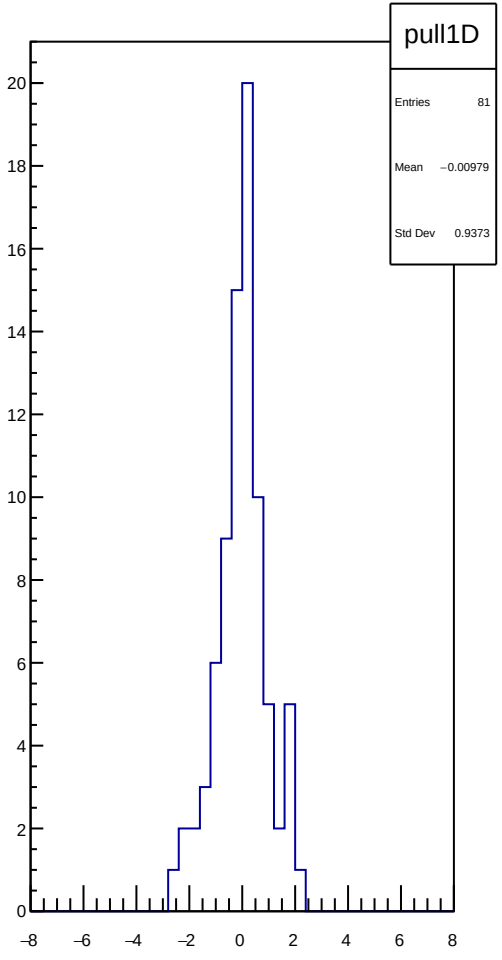

asym_bcm_dg_us_rms vs run
χ² / ndf 1.913e+04 / 80
p0 208.3 ± 0.1686
600
500
400
300
200

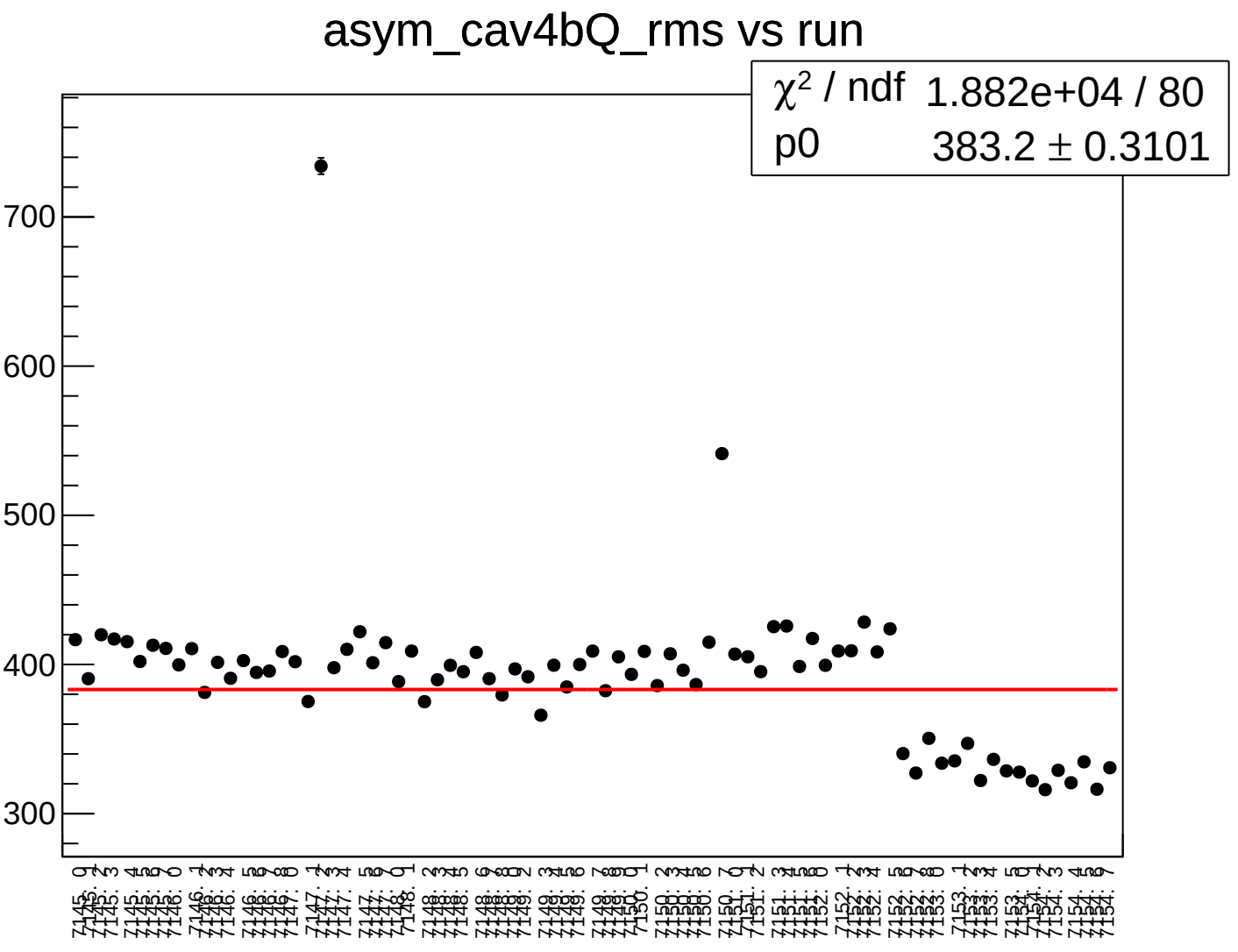

asym_bcm_dg_ds_mean vs run
χ² / ndf 23.03 / 80
p0 −20.83 ± 239.3
pull
Entries 81
Mean 2692
Std Dev 2646

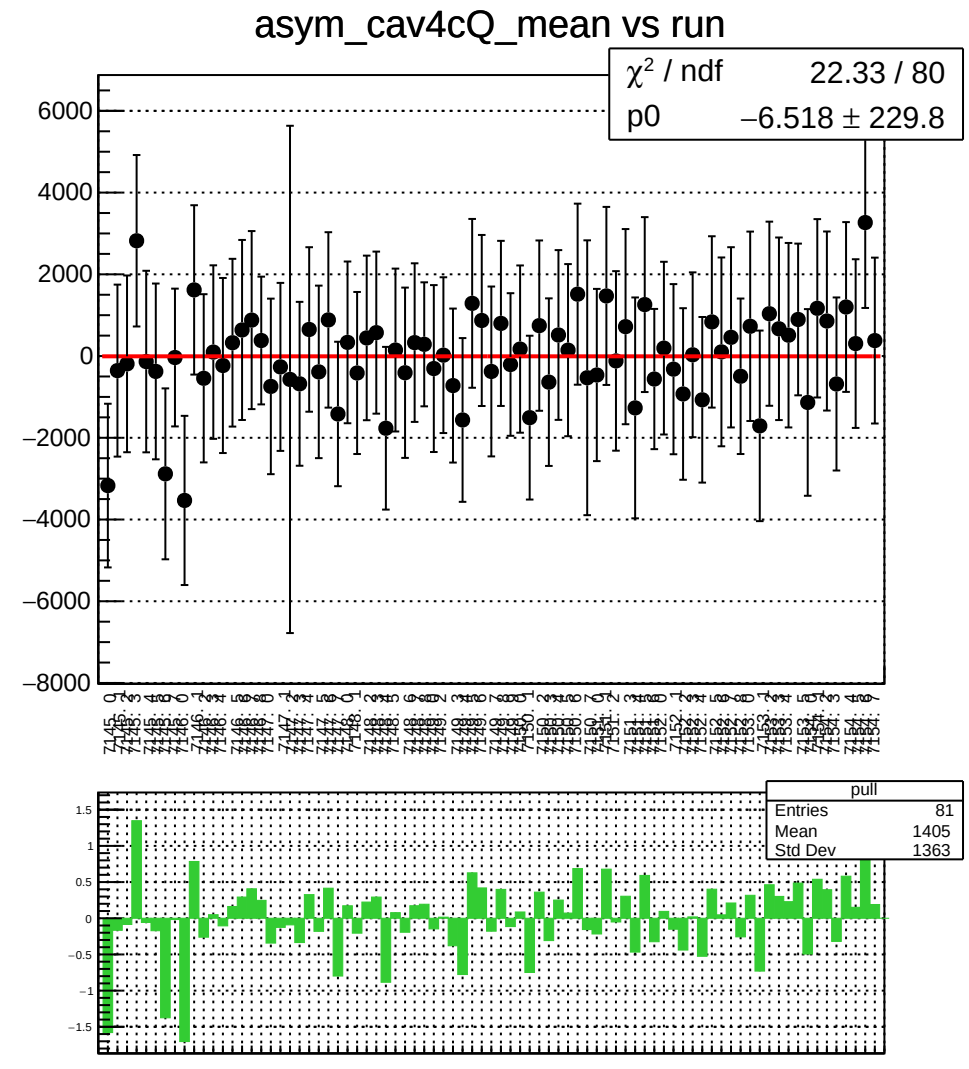

pull1D
Entries 81
Mean 0.001154
Std Dev 0.5332

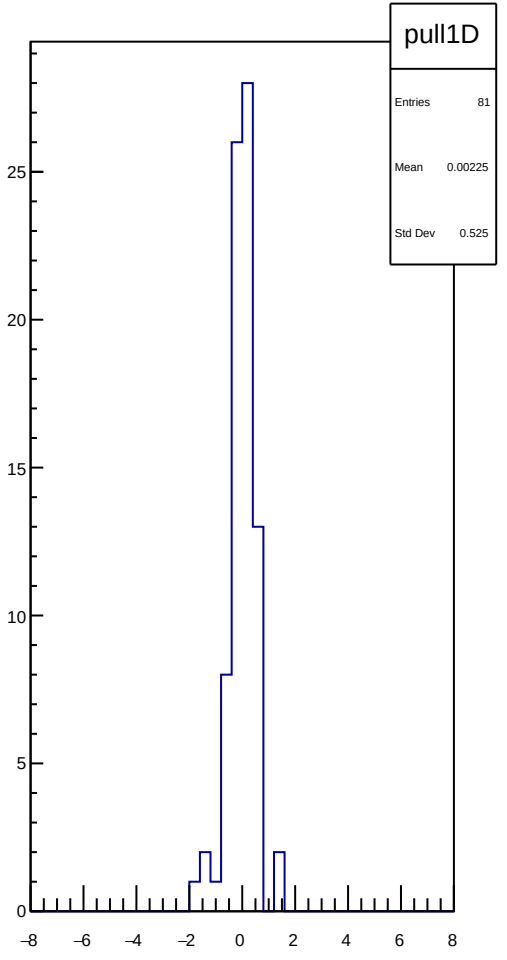

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.961e+04 / 80
p0 209 ± 0.1692
600
500
400
300
200

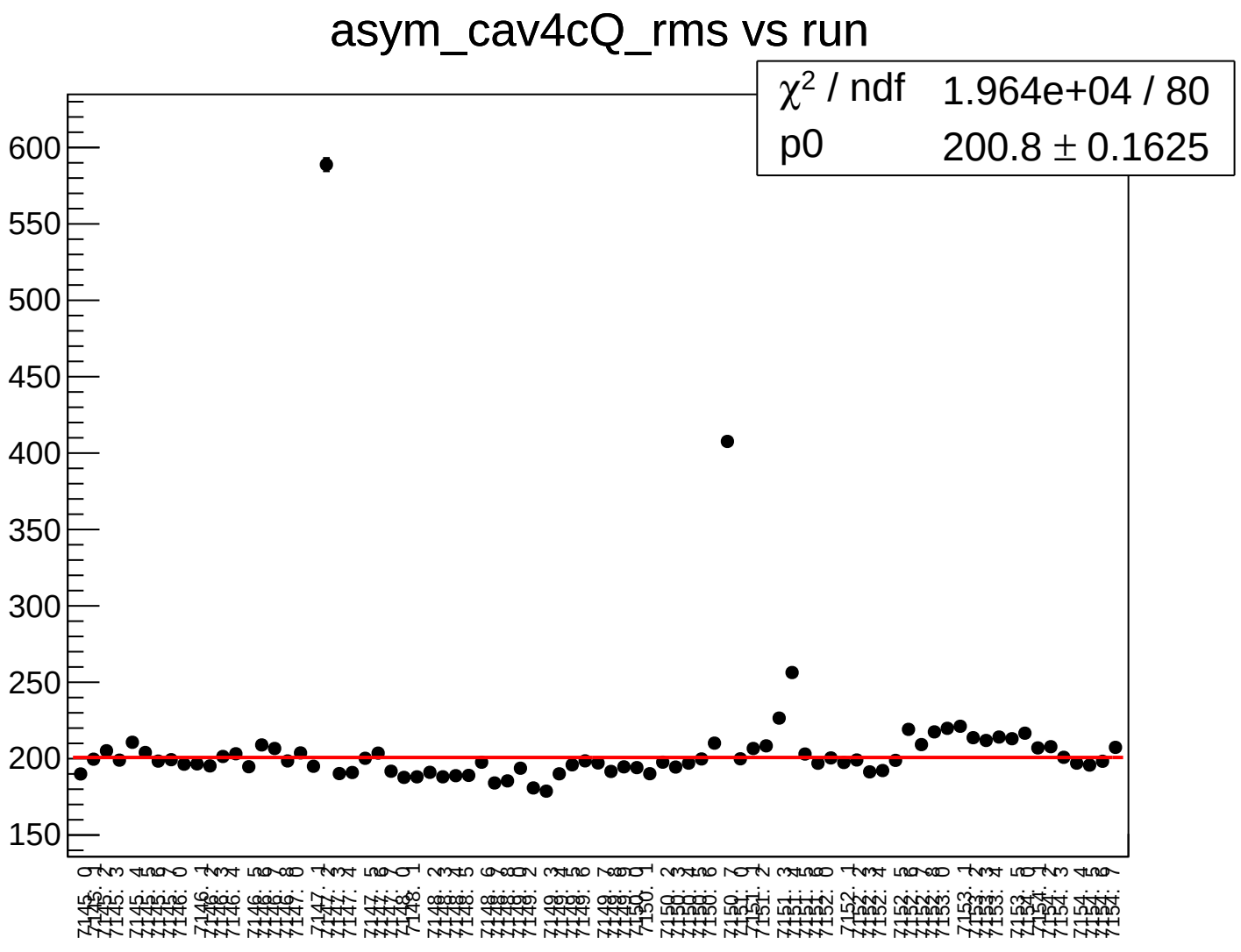

asym_cav4bQ_mean vs run
χ² / ndf 71.16 / 80
p0 −1036 ± 438.6
pull
Entries 81
Mean −433.6
Std Dev 476.2

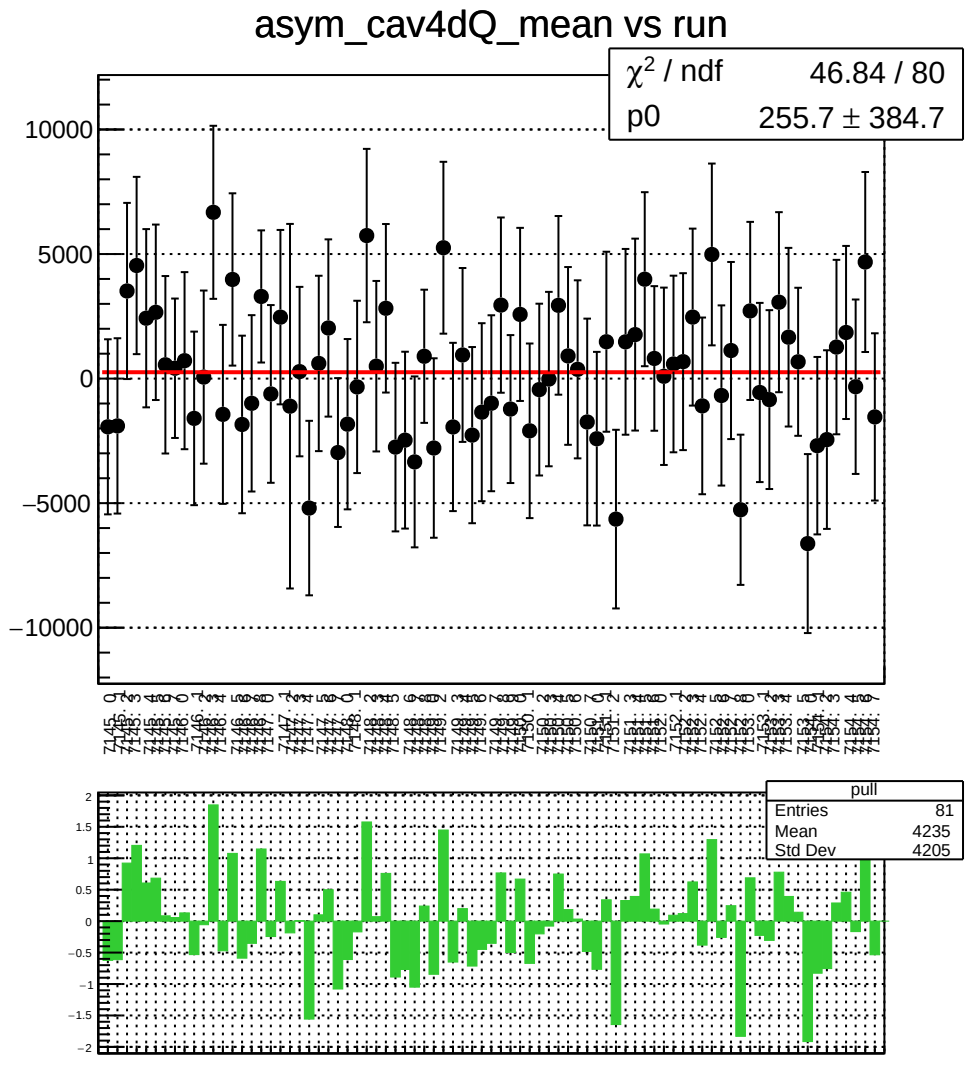

pull1D
Entries 81
Mean −0.00979
Std Dev 0.9373

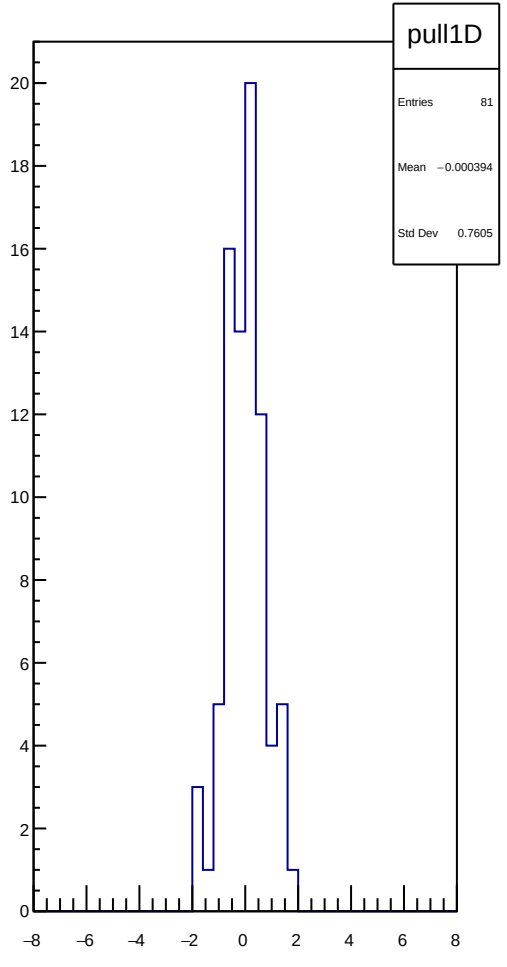

asym_cav4bQ_rms vs run
χ² / ndf 1.882e+04 / 80
p0 383.2 ± 0.3101
700
600
500
400
300

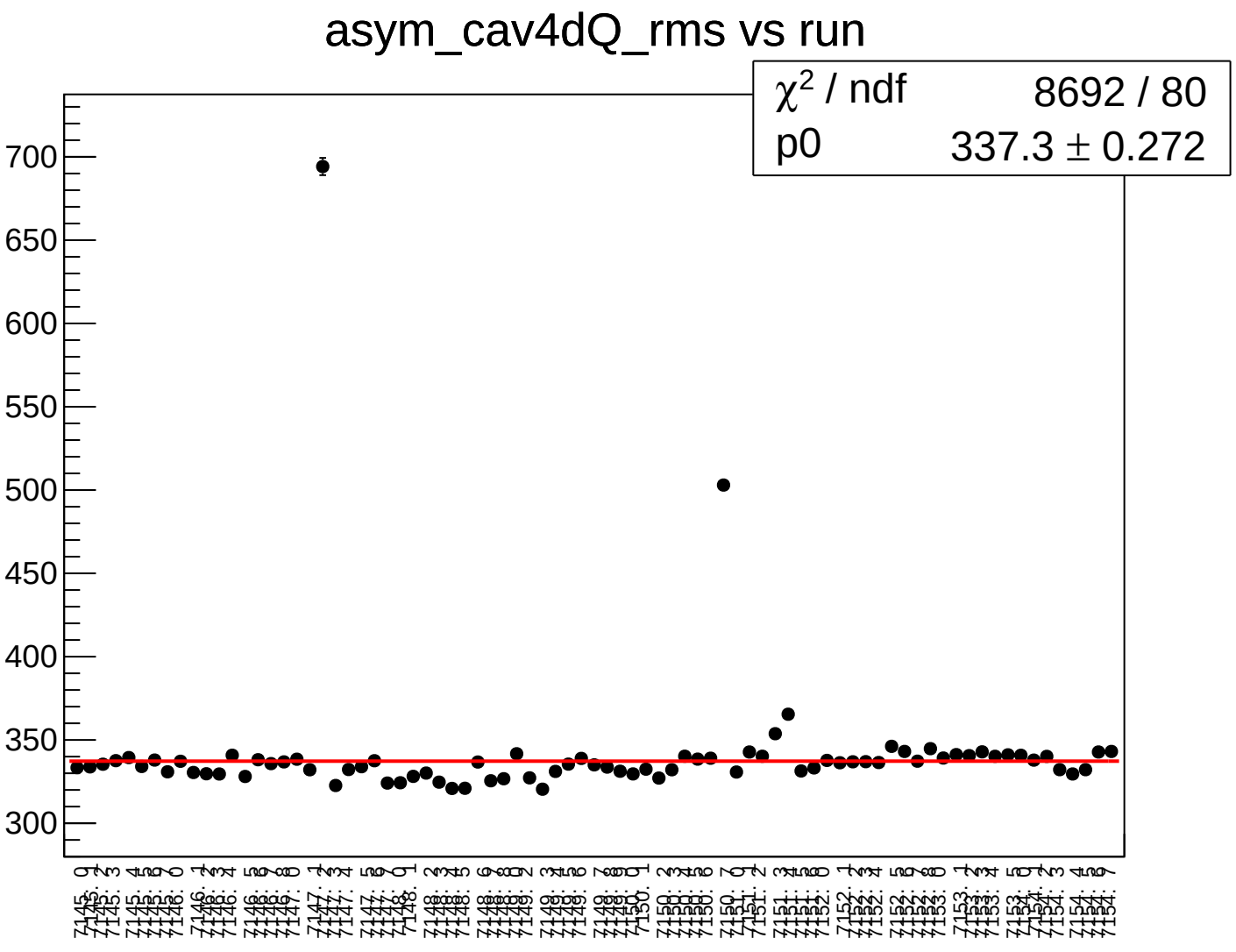

asym_cav4cQ_mean vs run
χ² / ndf 22.33 / 80
p0 −6.518 ± 229.8
pull
Entries 81
Mean 1405
Std Dev 1363

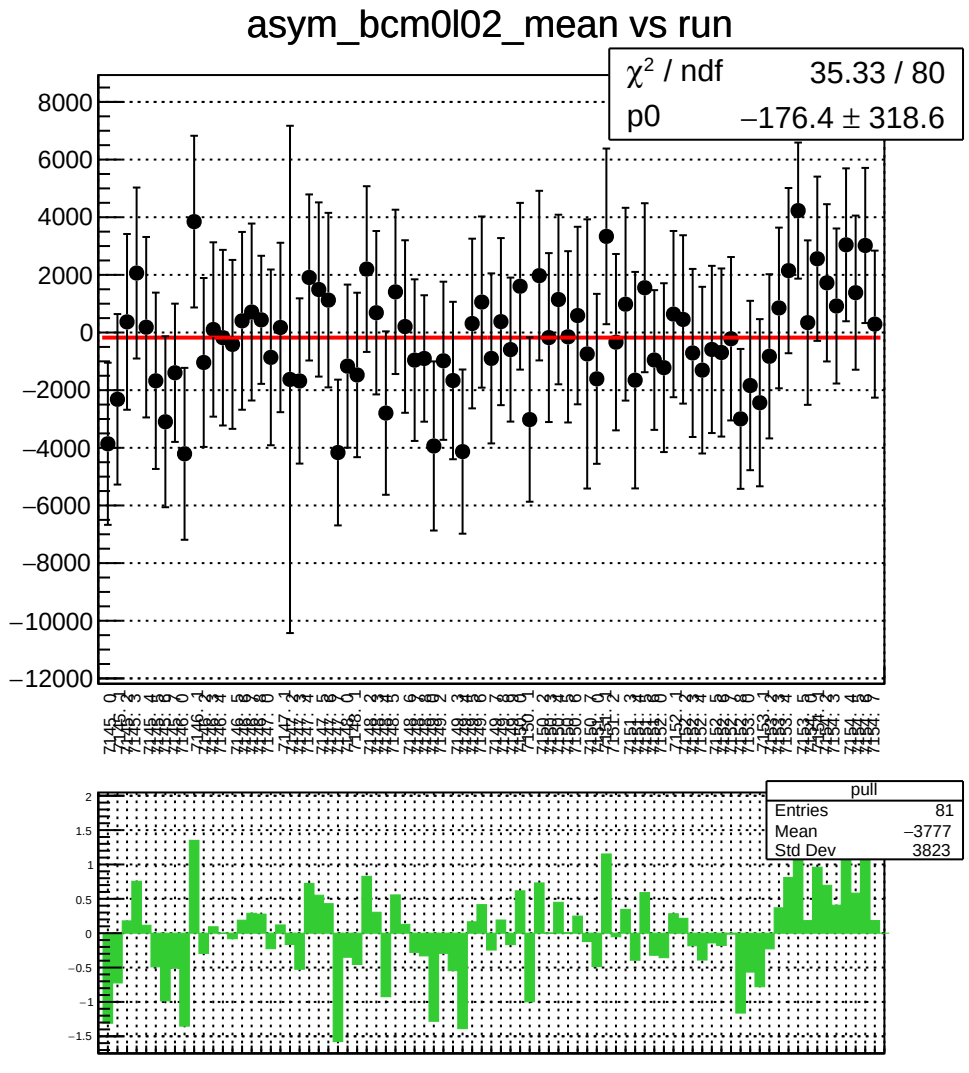

pull1D
Entries 81
Mean 0.00225
Std Dev 0.525

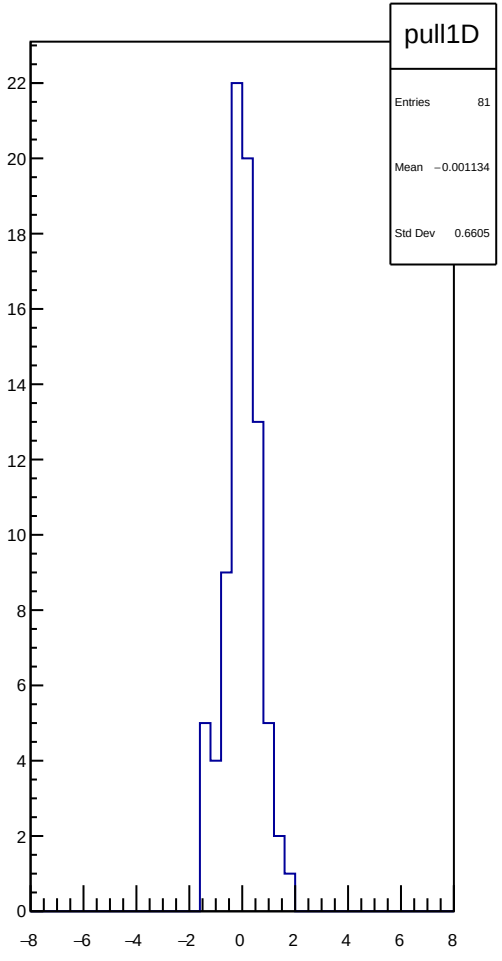

asym_cav4cQ_rms vs run
χ^2 / ndf 1.964e+04 / 80
p0 200.8 ± 0.1625
600
550
500
450
400
350
300
250
200
150

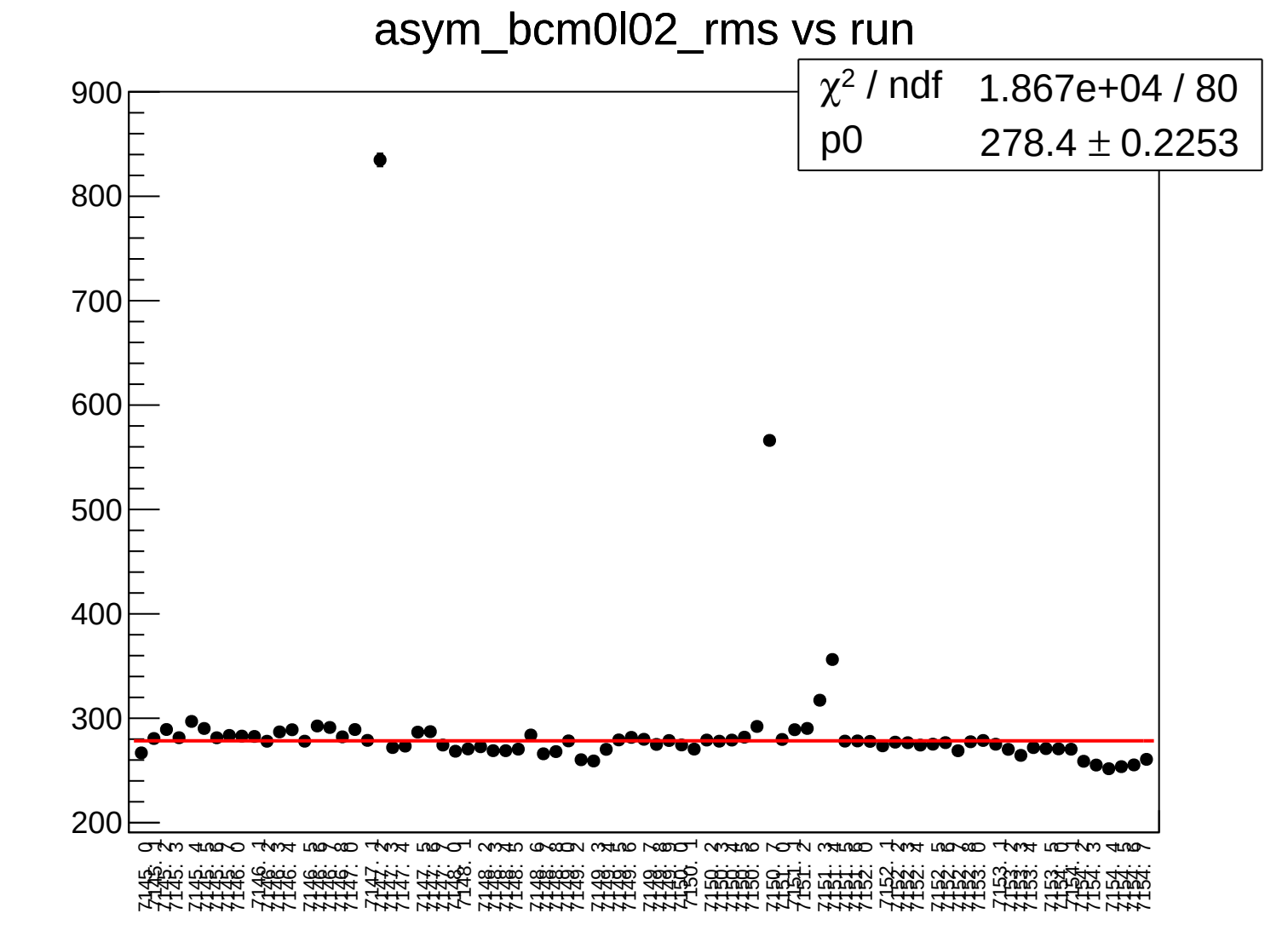

asym_cav4dQ_mean vs run
χ² / ndf 46.84 / 80
p0 255.7 ± 384.7
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 4235
Std Dev 4205
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

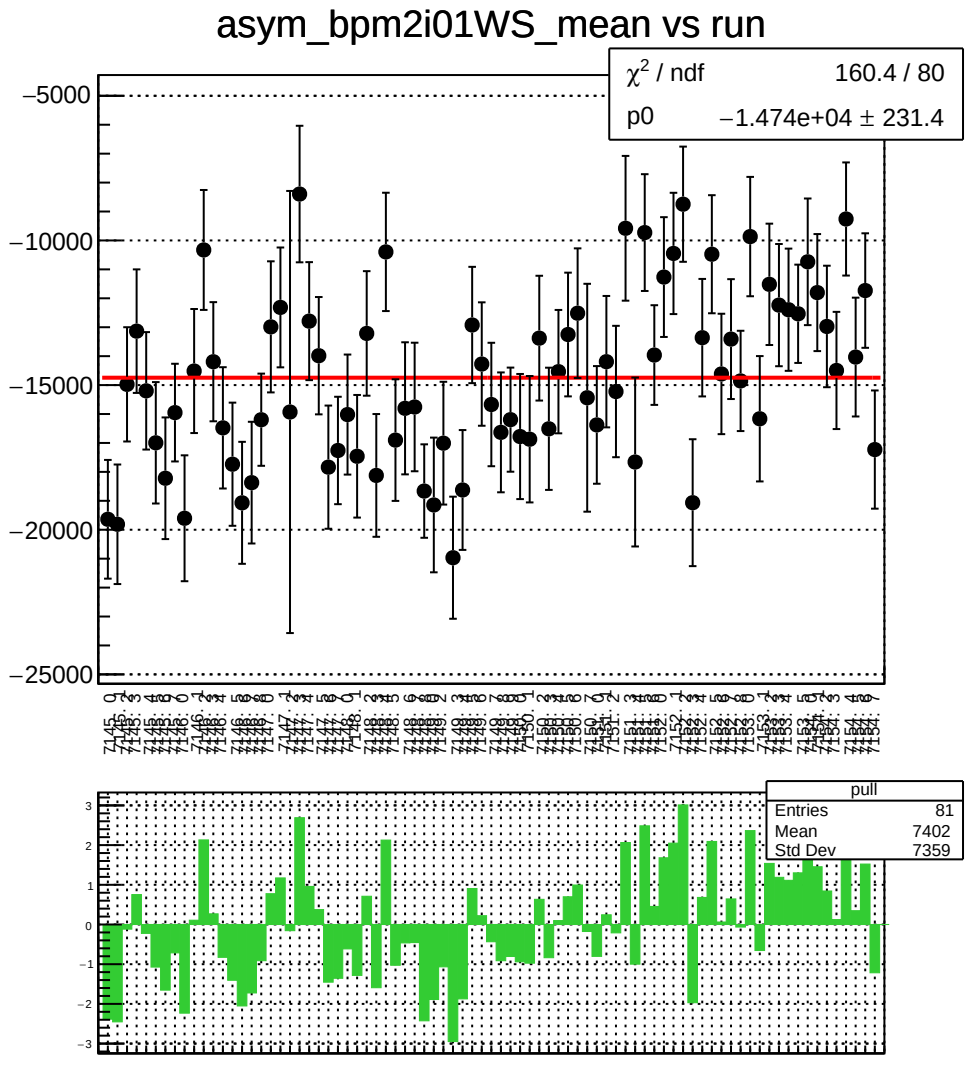

pull1D
Entries 81
Mean −0.000394
Std Dev 0.7605
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

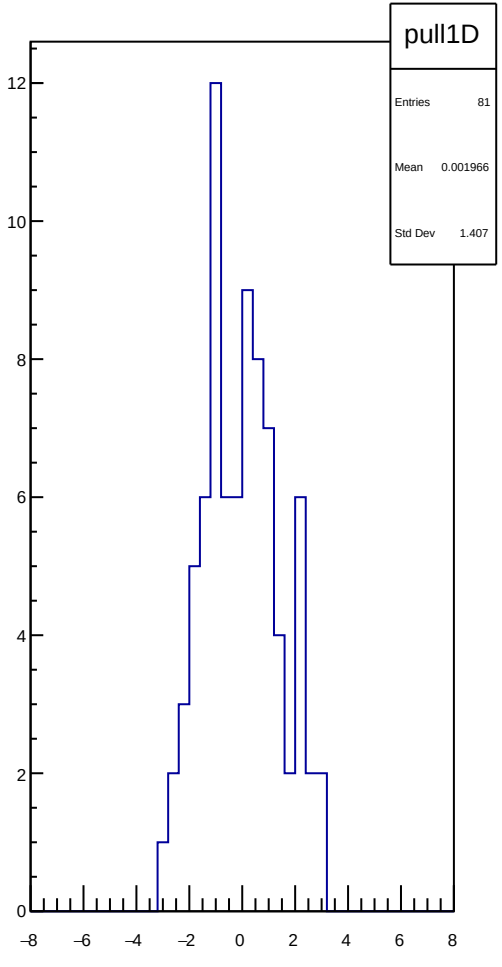

asym_cav4dQ_rms vs run
χ² / ndf 8692 / 80
p0 337.3 ± 0.272
700
650
600
550
500
450
400
350
300

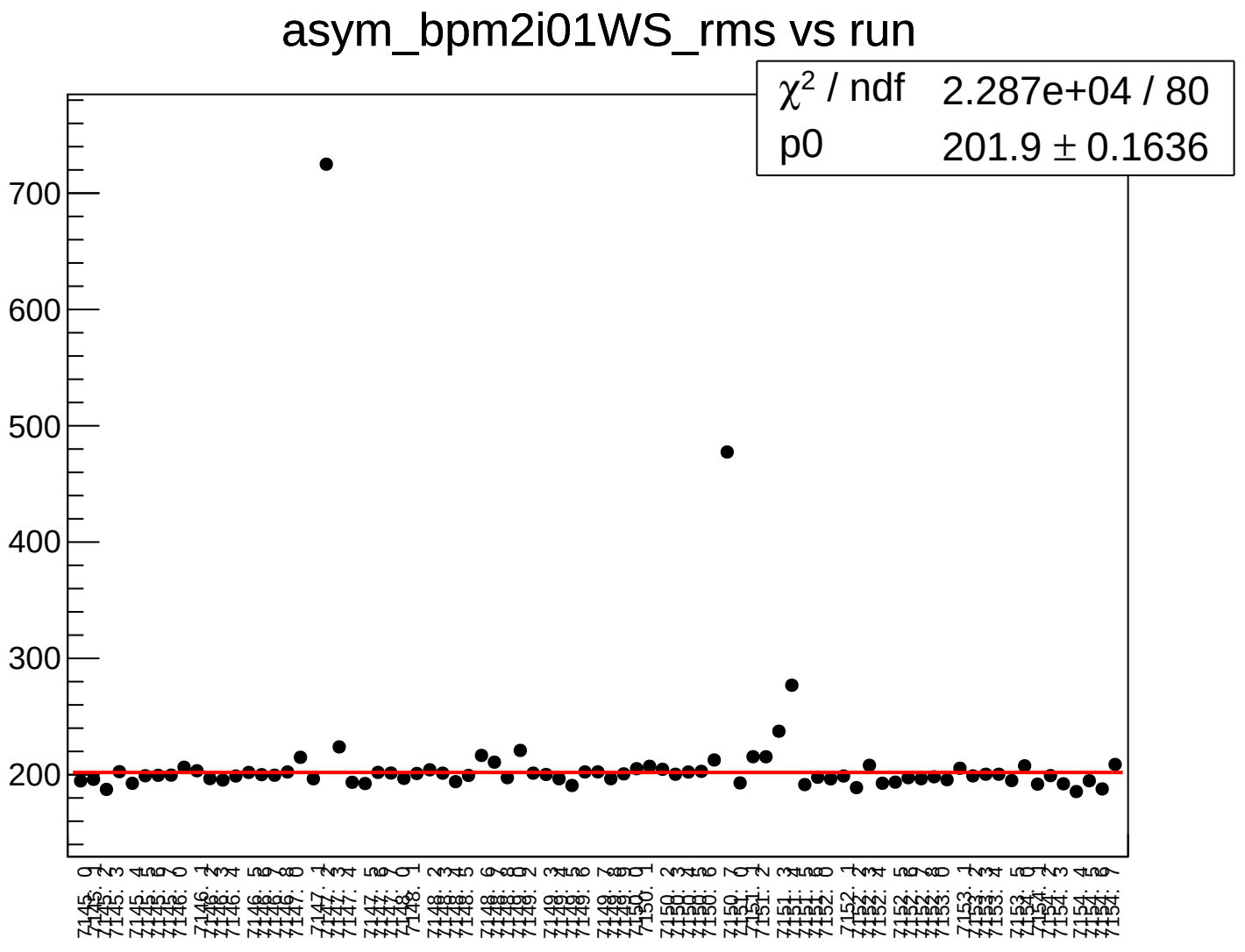

asym_bcm0l02_mean vs run
χ² / ndf 35.33 / 80
p0 −176.4 ± 318.6
pull
Entries 81
Mean −3777
Std Dev 3823

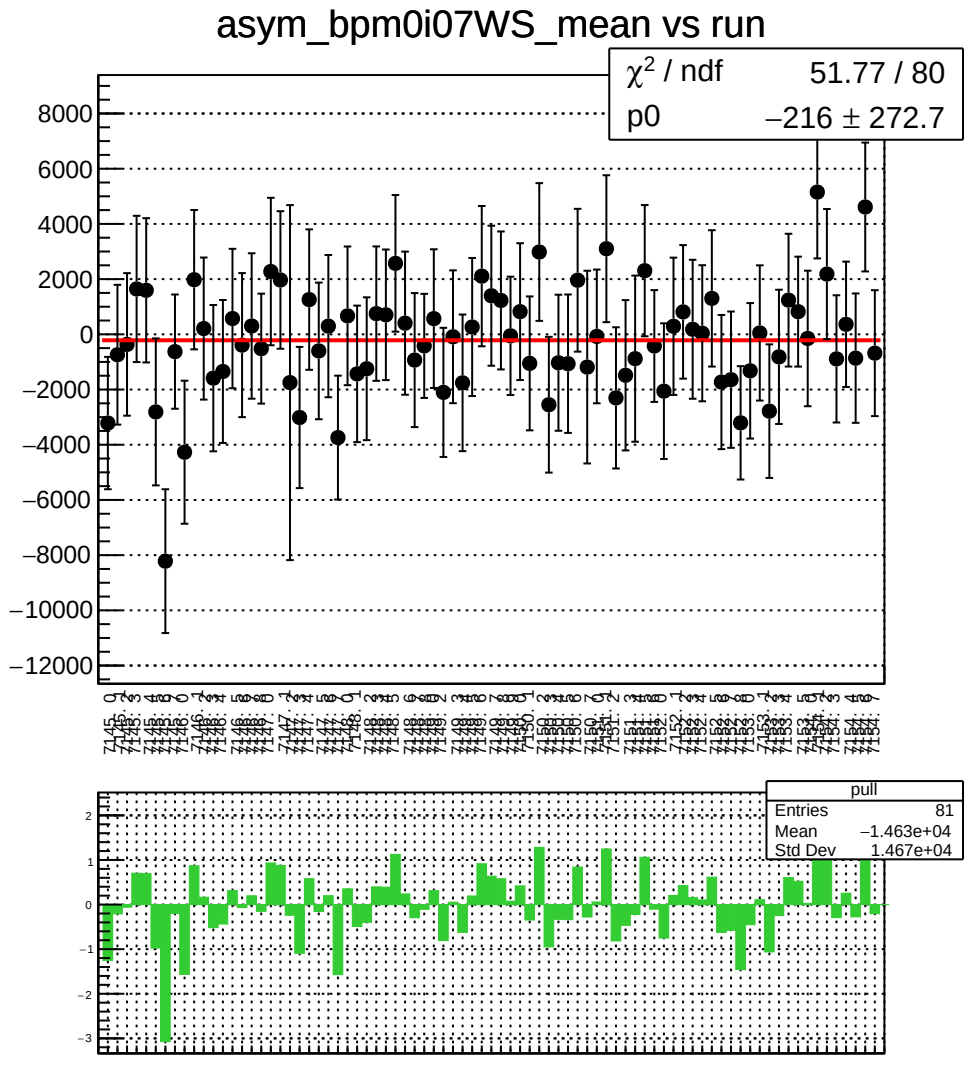

pull1D
Entries 81
Mean −0.001134
Std Dev 0.6605

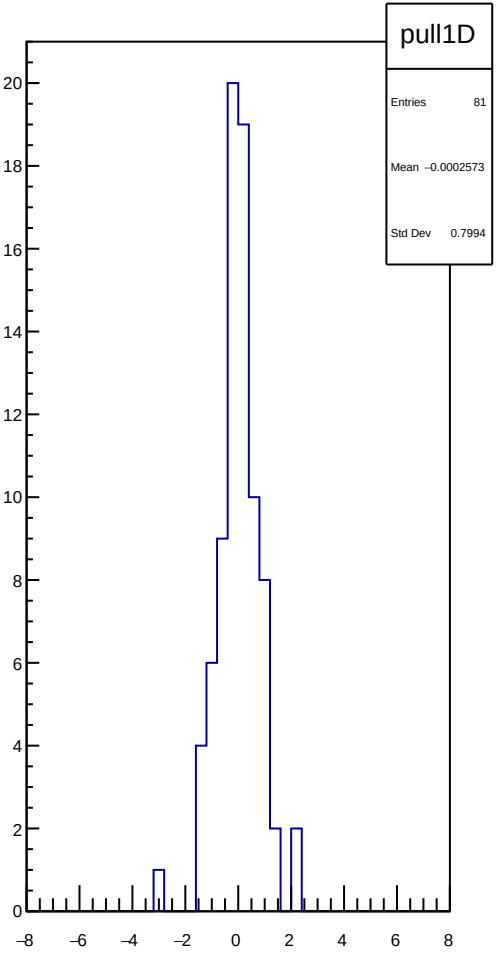

asym_bcm0l02_rms vs run
χ^2 / ndf 1.867e+04 / 80
p0 278.4 ± 0.2253
900
800
700
600
500
400
300
200

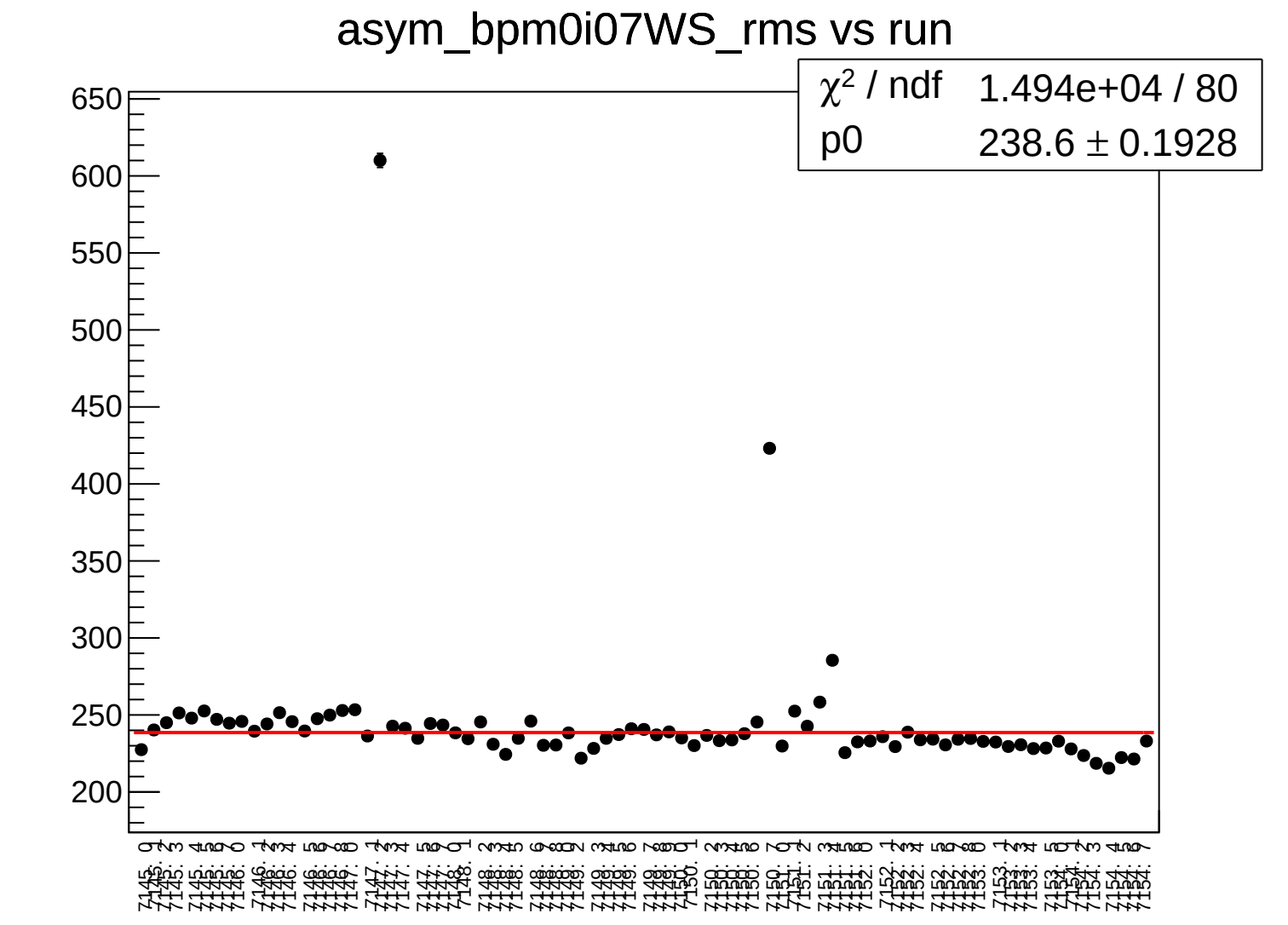

asym_bpm2i01WS_mean vs run
χ² / ndf 160.4 / 80
p0 −1.474e+04 ± 231.4
−5000
−10000
−15000
−20000
−25000
pull
Entries 81
Mean 7402
Std Dev 7359
3
2
1
0
−1
−2
−3

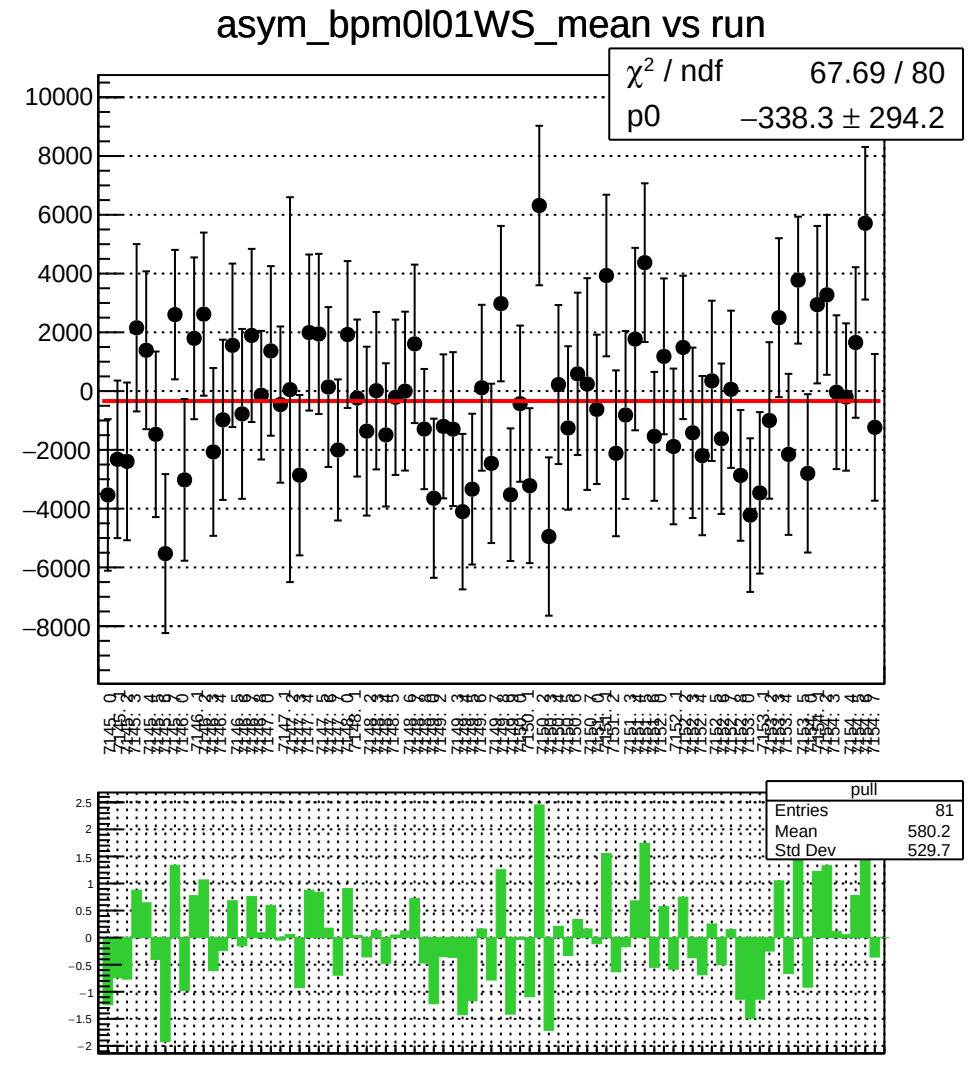

pull1D
Entries 81
Mean 0.001966
Std Dev 1.407
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

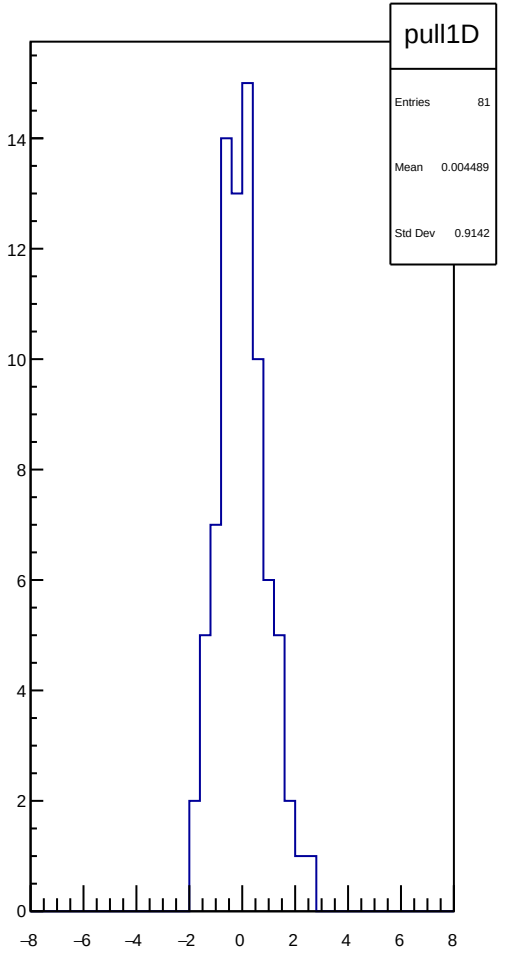

asym_bpm2i01WS_rms vs run
χ² / ndf 2.287e+04 / 80
p0 201.9 ± 0.1636
700
600
500
400
300
200

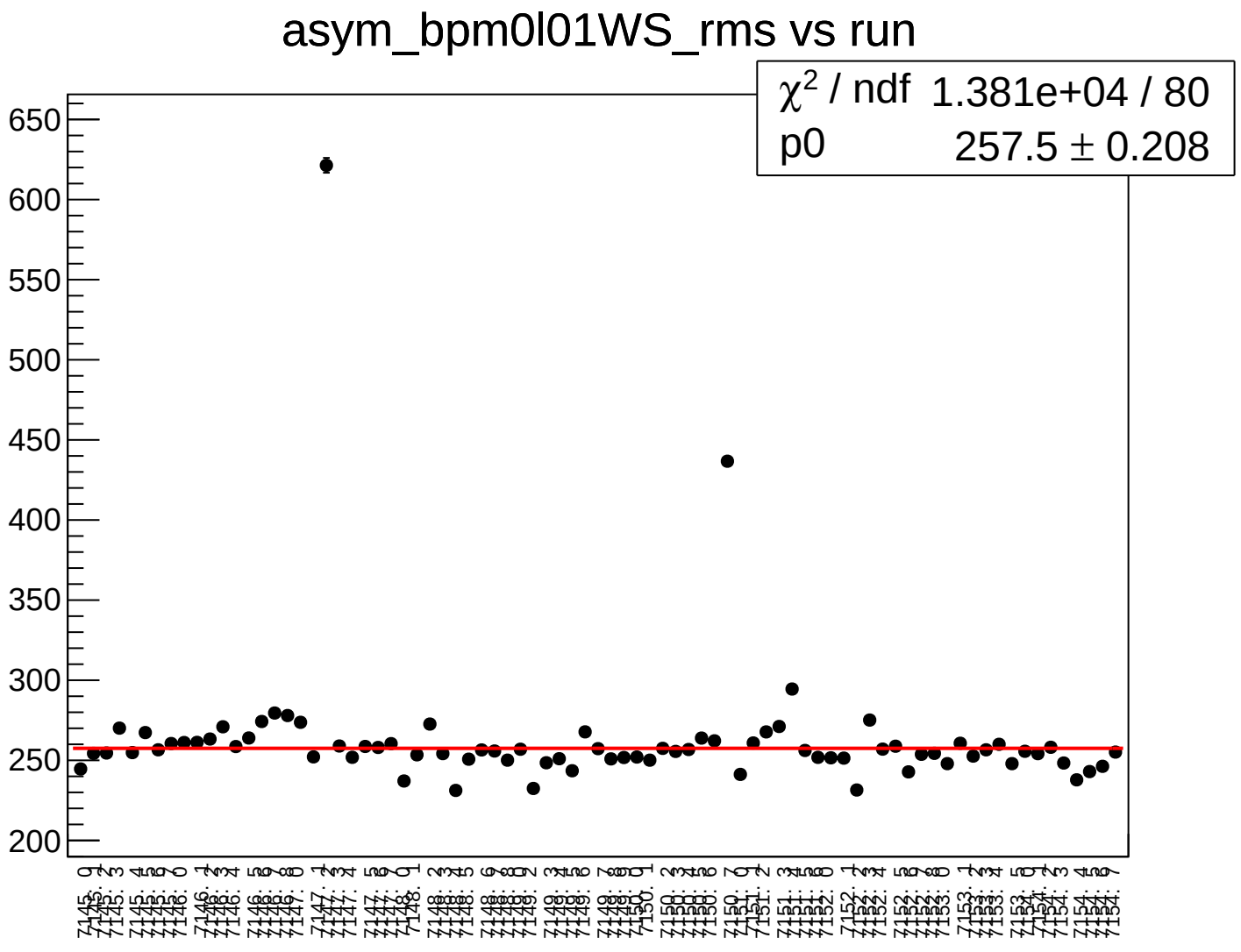

asym_bpm0i07WS_mean vs run
χ² / ndf 51.77 / 80
p0 −216 ± 272.7
pull
Entries 81
Mean −1.463e+04
Std Dev 1.467e+04

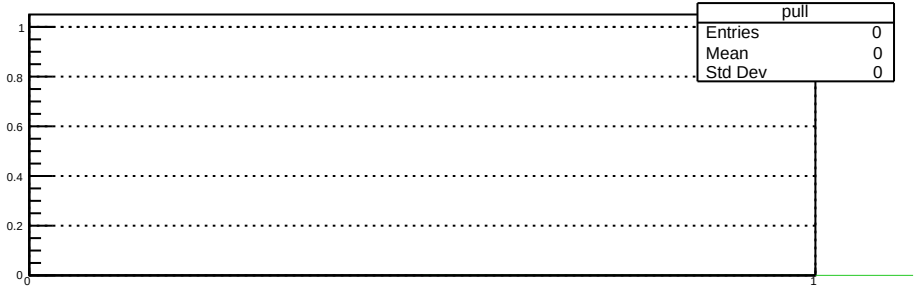

pull1D
Entries 81
Mean −0.0002573
Std Dev 0.7994

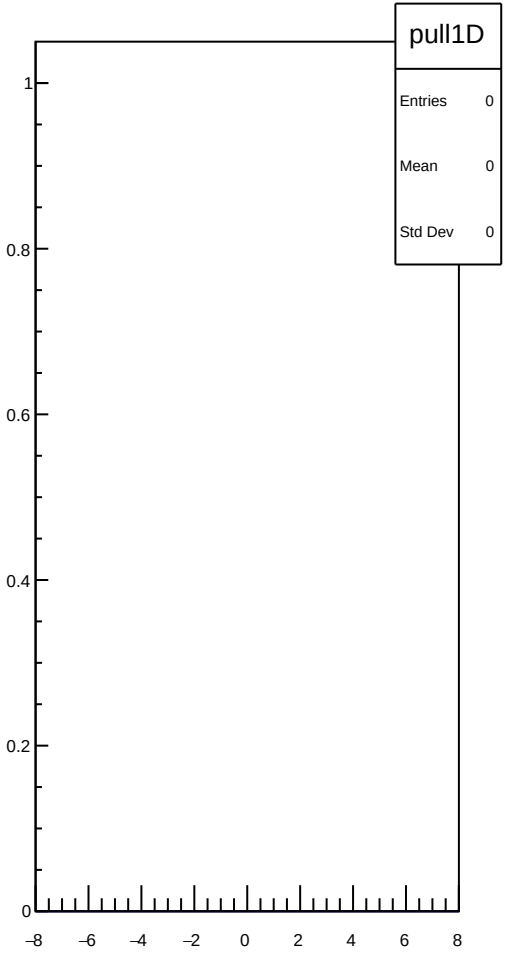

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.494e+04 / 80
p0 238.6 ± 0.1928
650
600
550
500
450
400
350
300
250
200

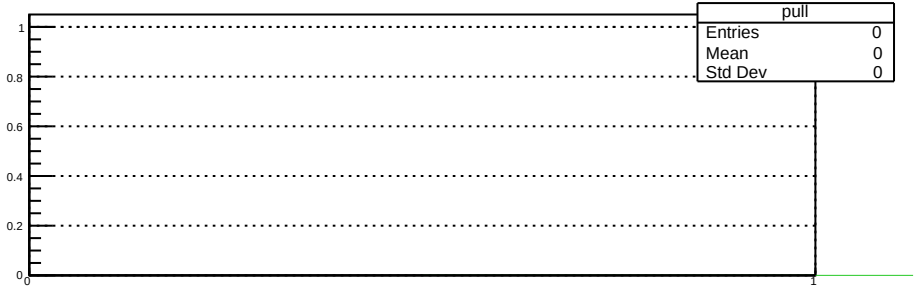

asym_bpm0l01WS_mean vs run
χ² / ndf 67.69 / 80
p0 −338.3 ± 294.2
pull
Entries 81
Mean 580.2
Std Dev 529.7

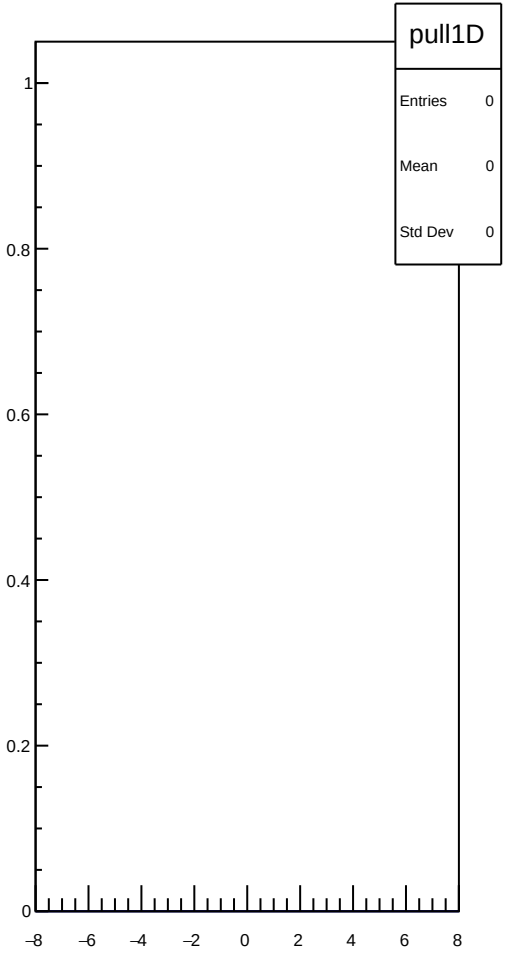

pull1D
Entries 81
Mean 0.004489
Std Dev 0.9142

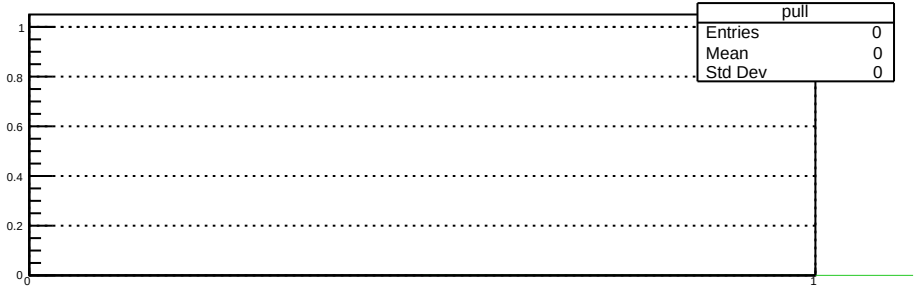

asym_bpm0l01WS_rms vs run
χ^2 / ndf 1.381e+04 / 80
p0 257.5 ± 0.208
650
600
550
500
450
400
350
300
250
200

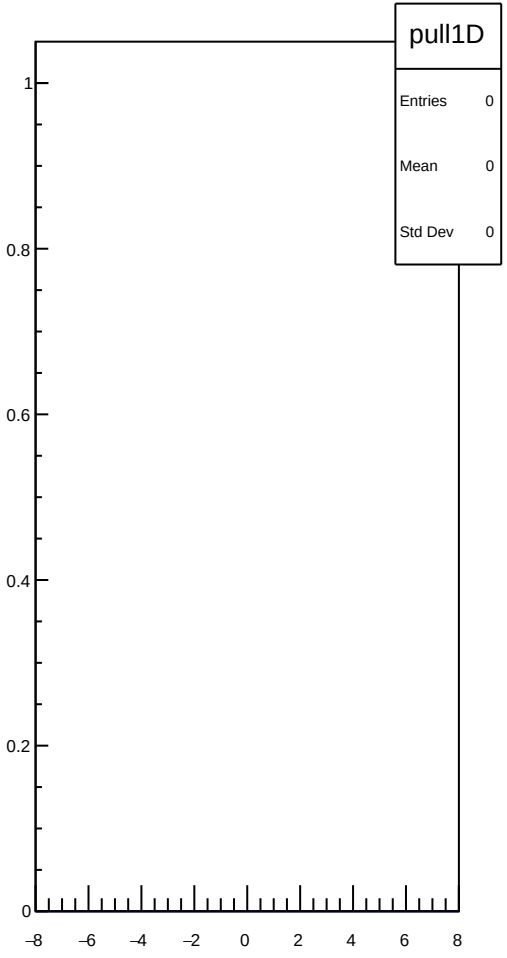

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

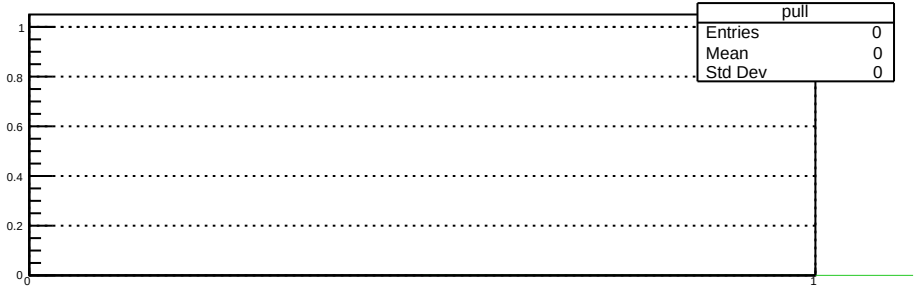

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

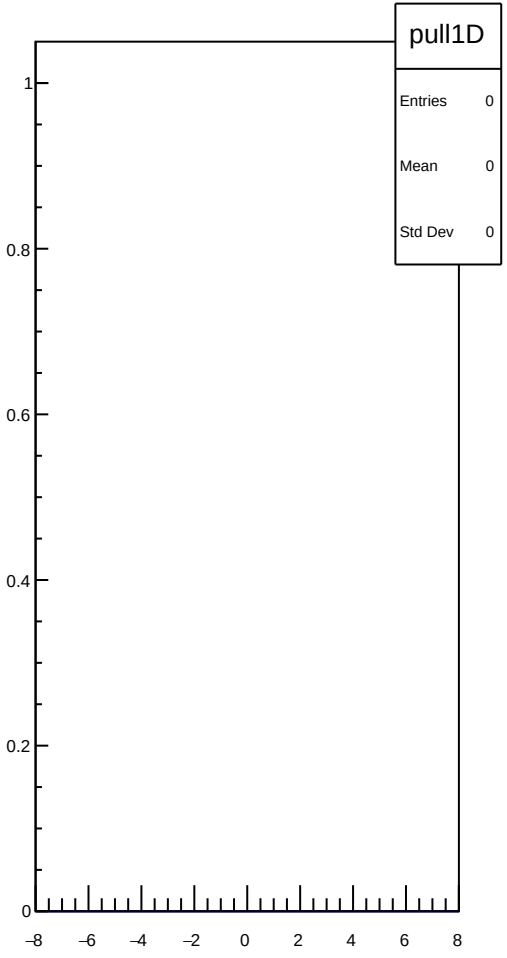

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

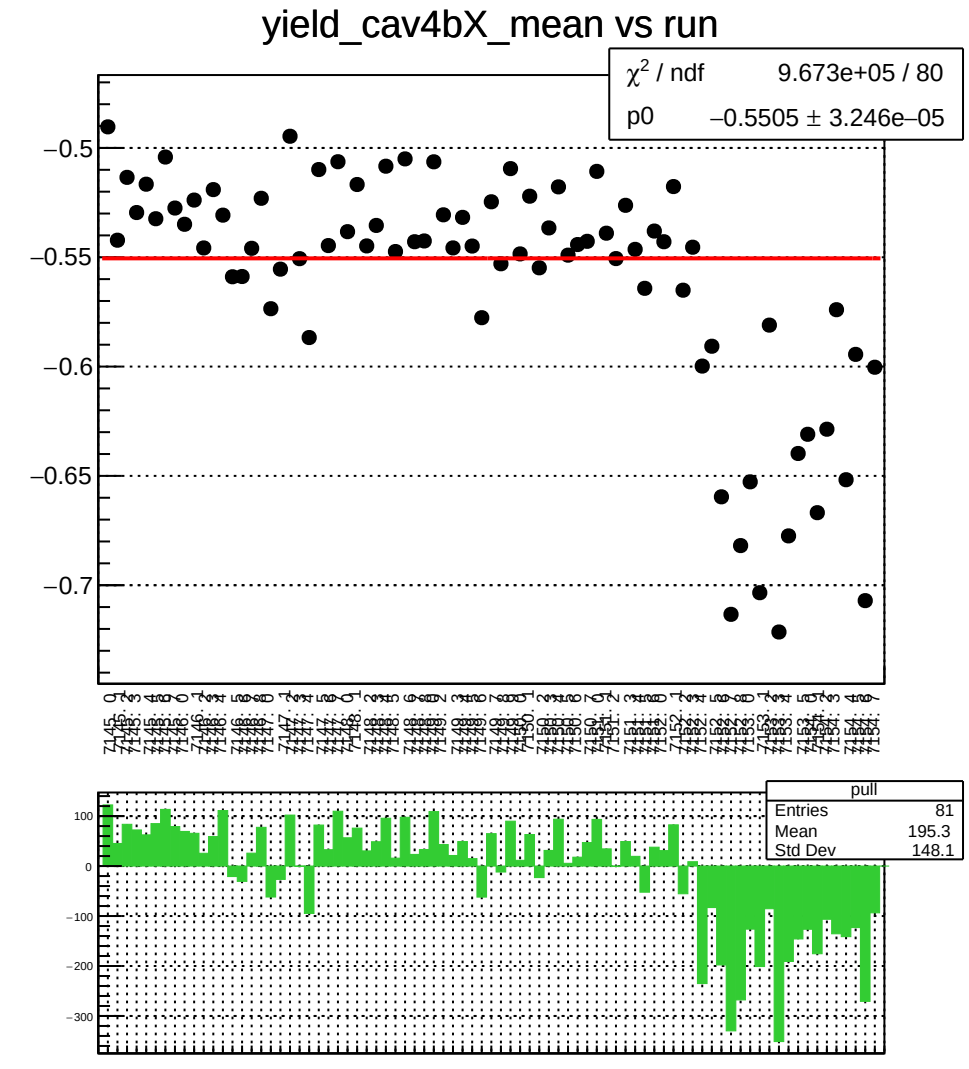

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

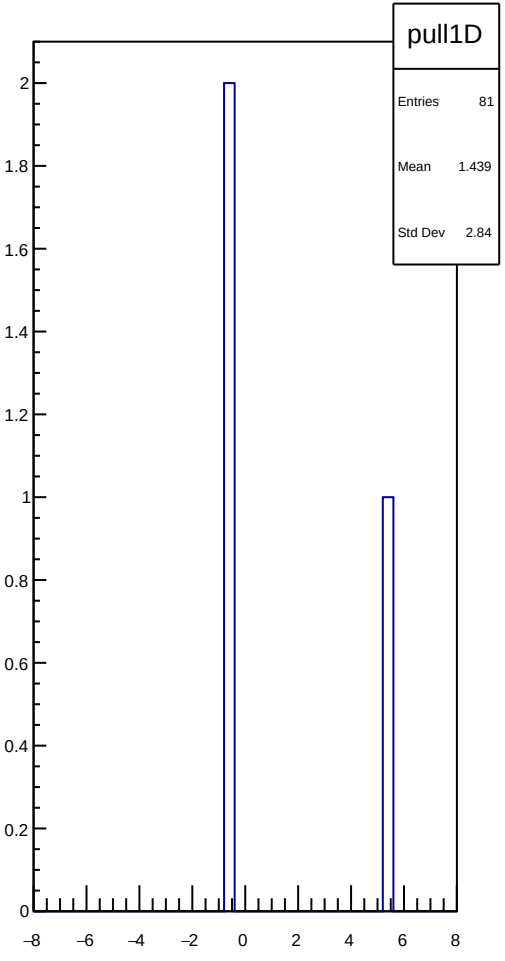

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

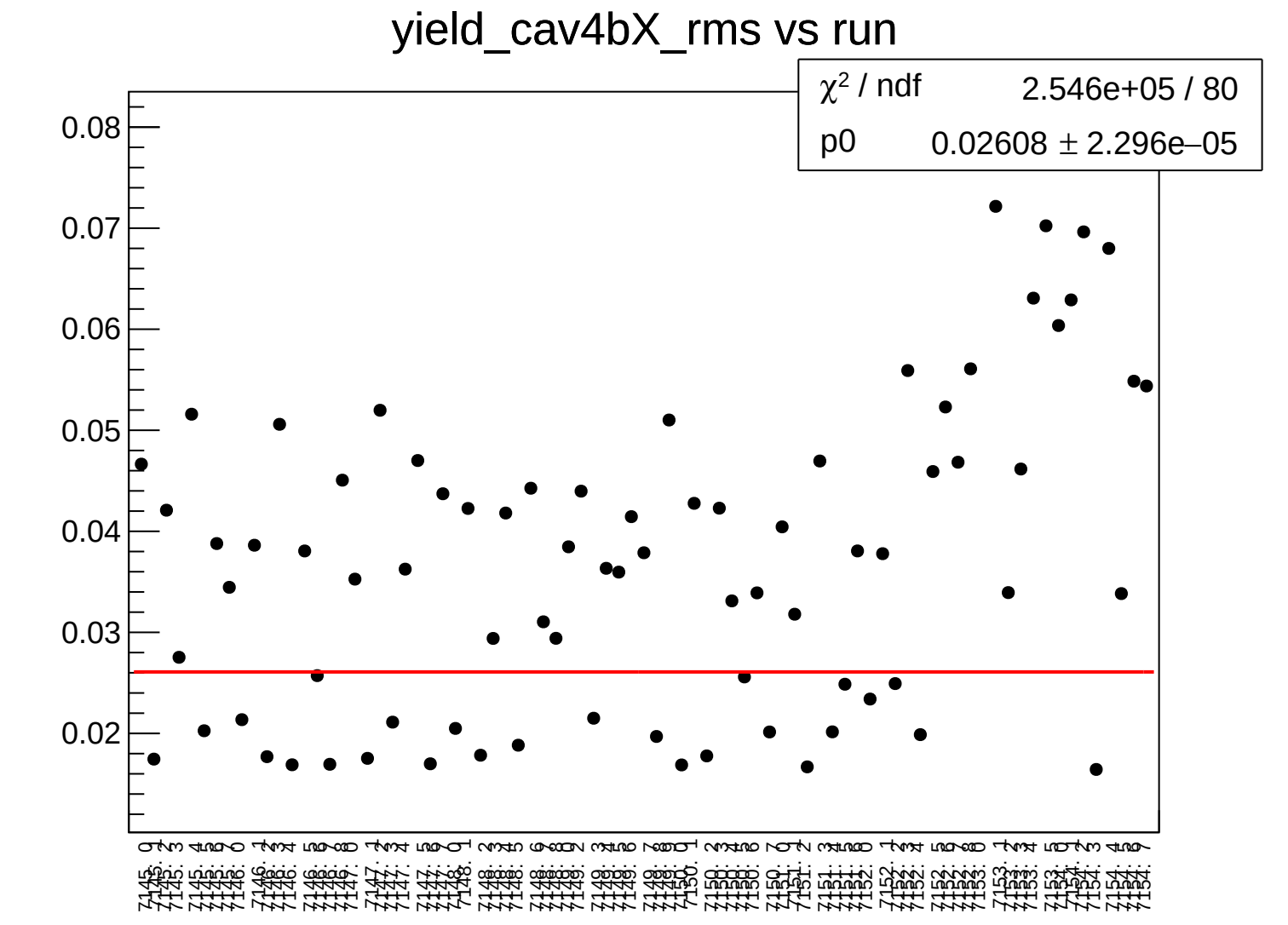

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

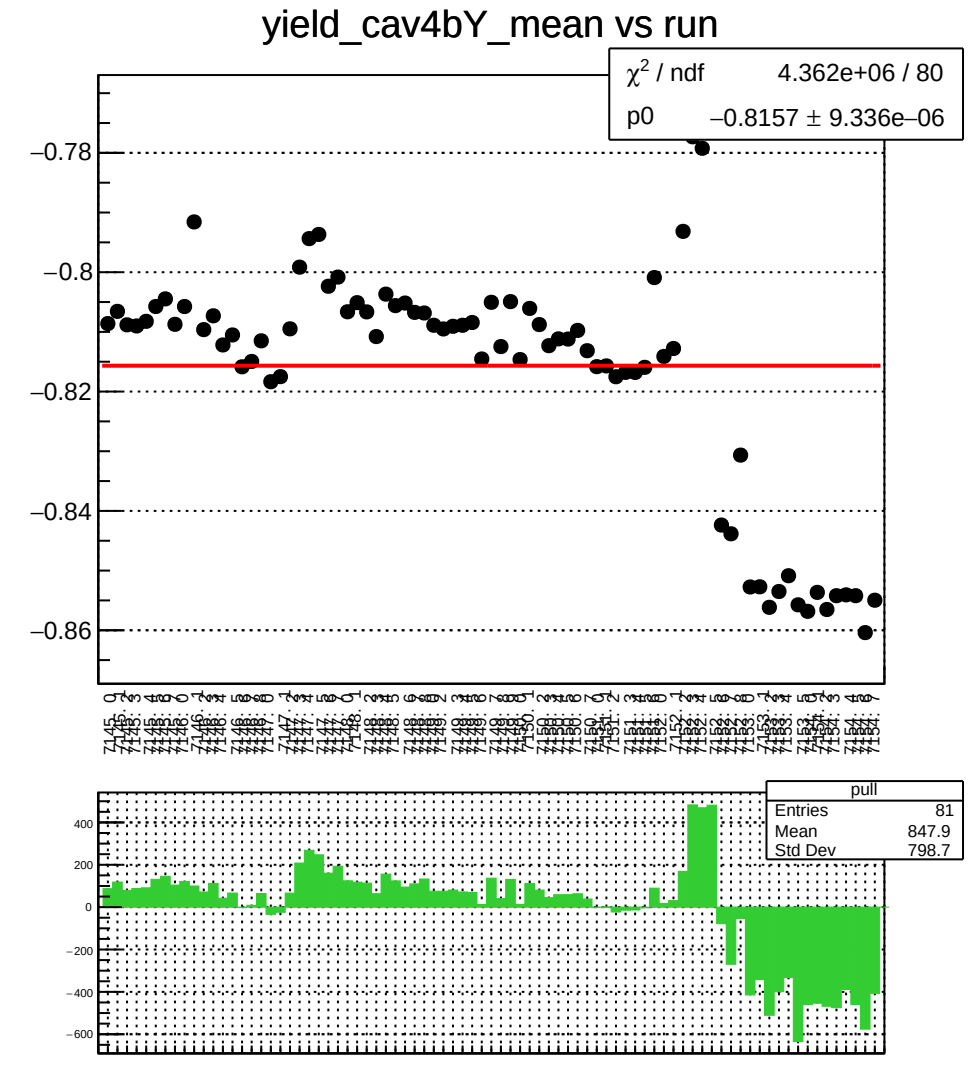

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

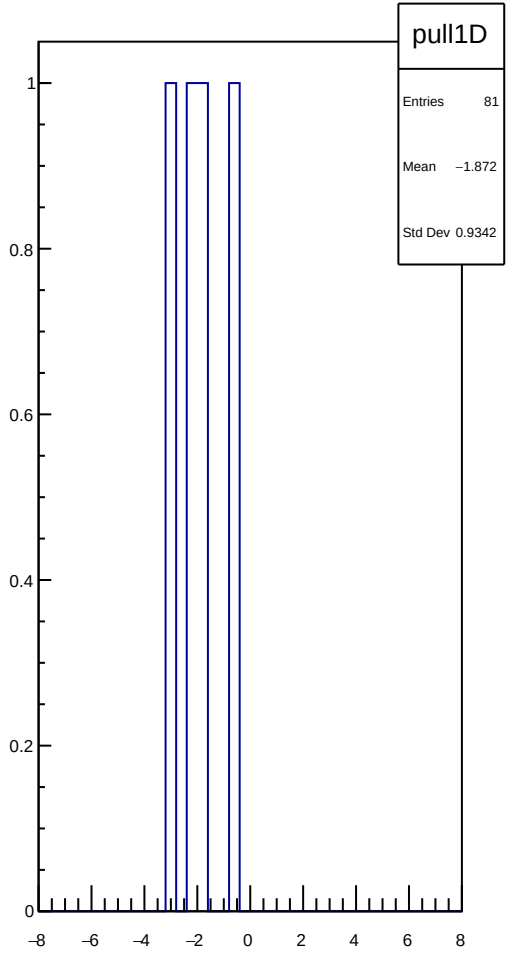

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

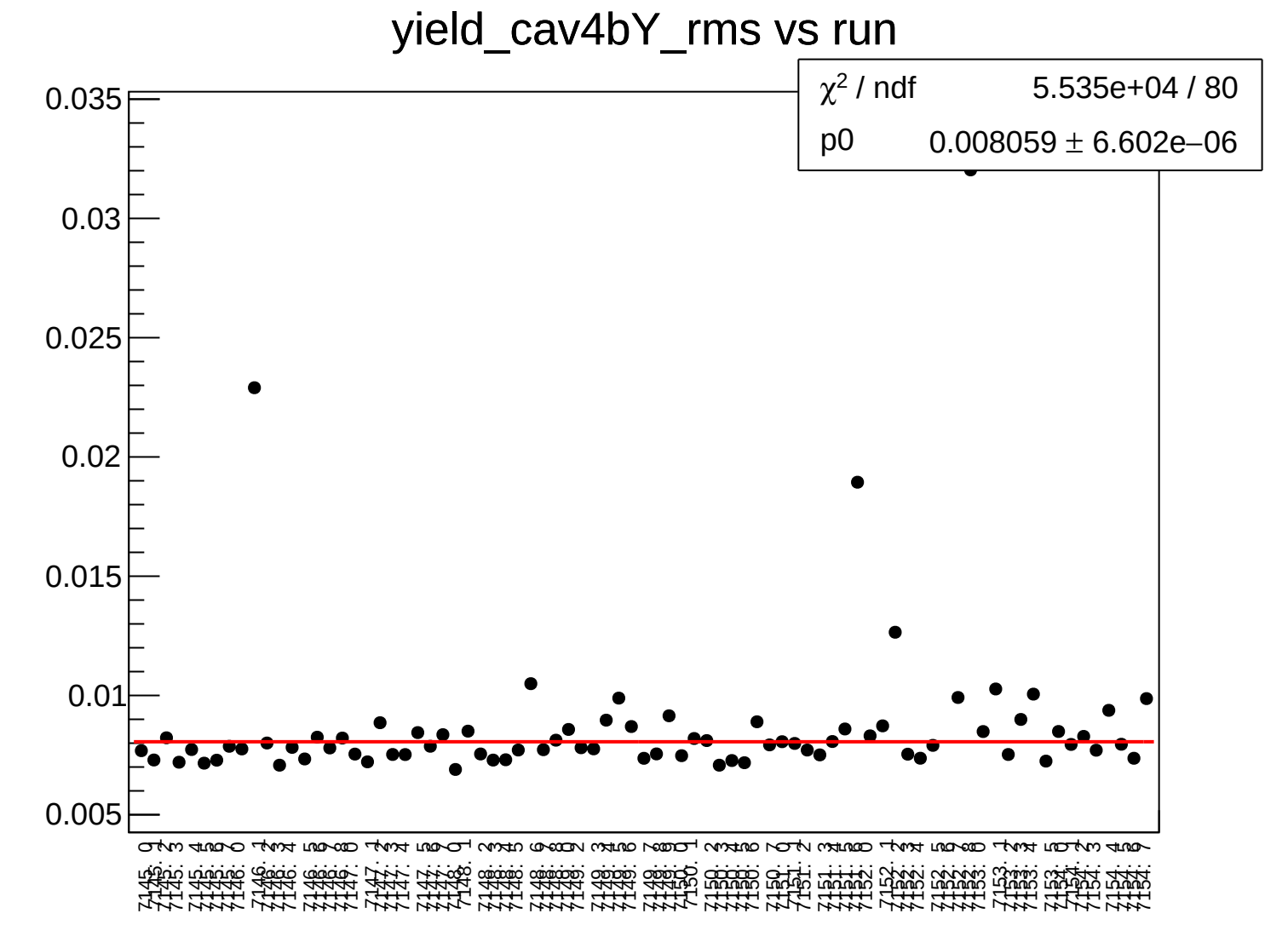

yield_cav4bX_mean vs run
χ² / ndf 9.673e+05 / 80
p0 −0.5505 ± 3.246e−05
pull
Entries 81
Mean 195.3
Std Dev 148.1

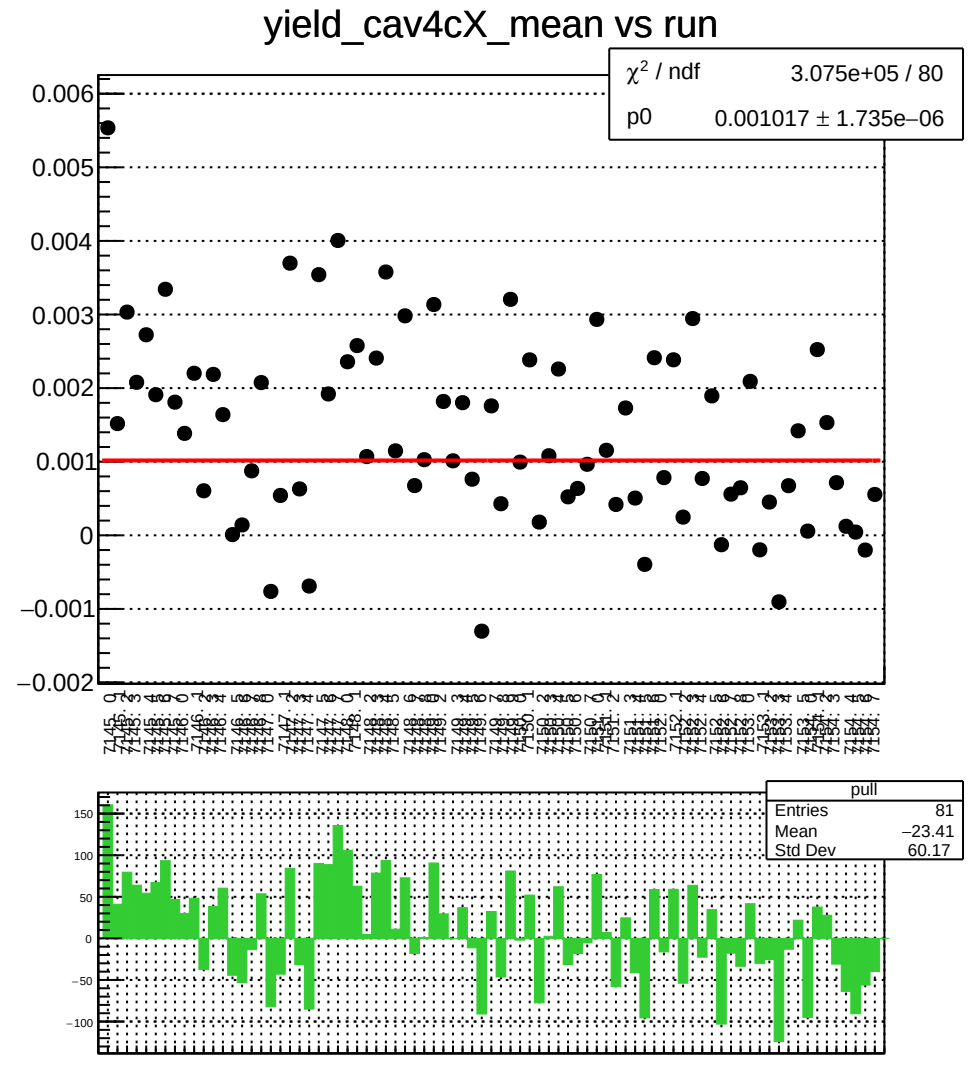

pull1D
Entries 81
Mean 1.439
Std Dev 2.84

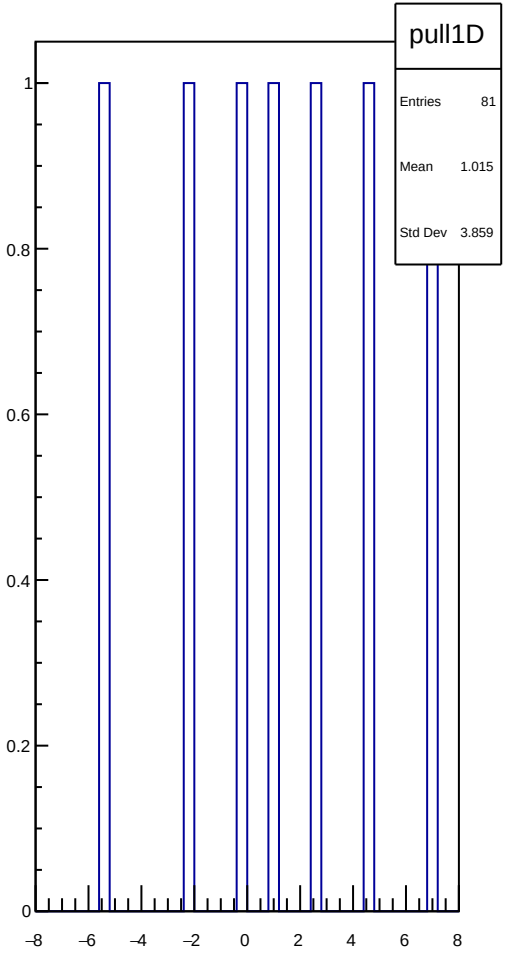

yield_cav4bX_rms vs run
χ² / ndf 2.546e+05 / 80
p0 0.02608 ± 2.296e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02

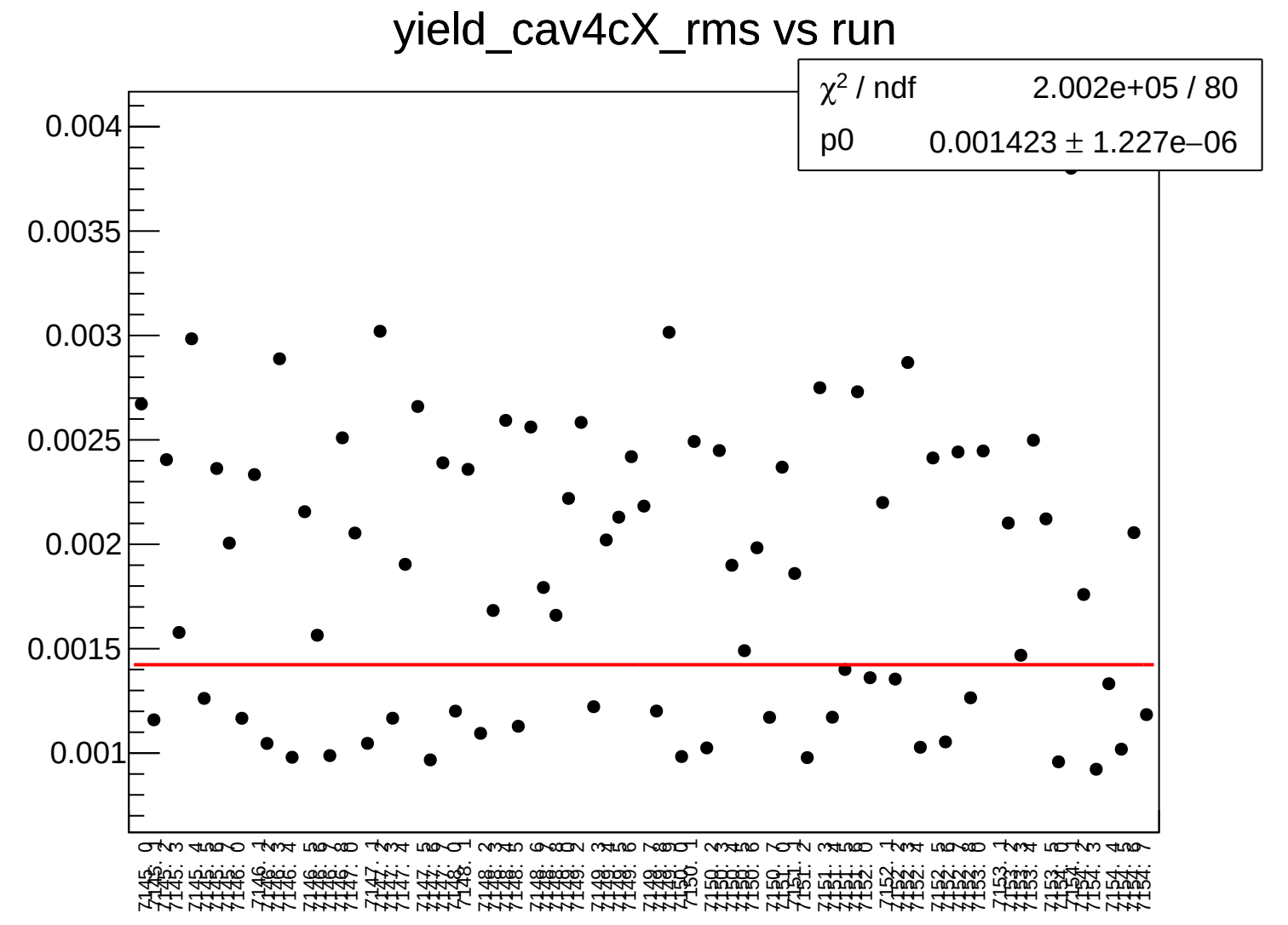

yield_cav4bY_mean vs run
χ² / ndf 4.362e+06 / 80
p0 −0.8157 ± 9.336e−06
−0.78
−0.8
−0.82
−0.84
−0.86
pull
Entries 81
Mean 847.9
Std Dev 798.7
400
200
0
−200
−400
−600

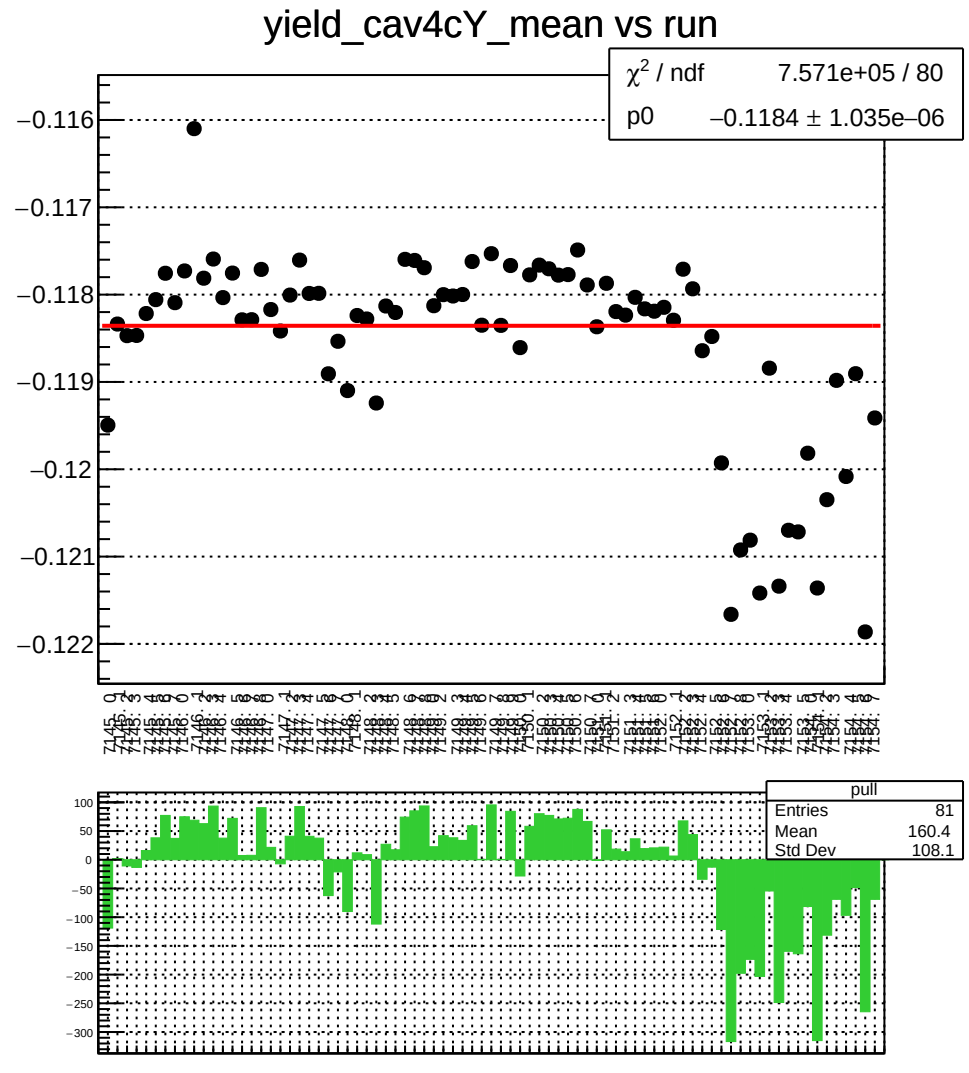

pull1D
Entries 81
Mean −1.872
Std Dev 0.9342
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

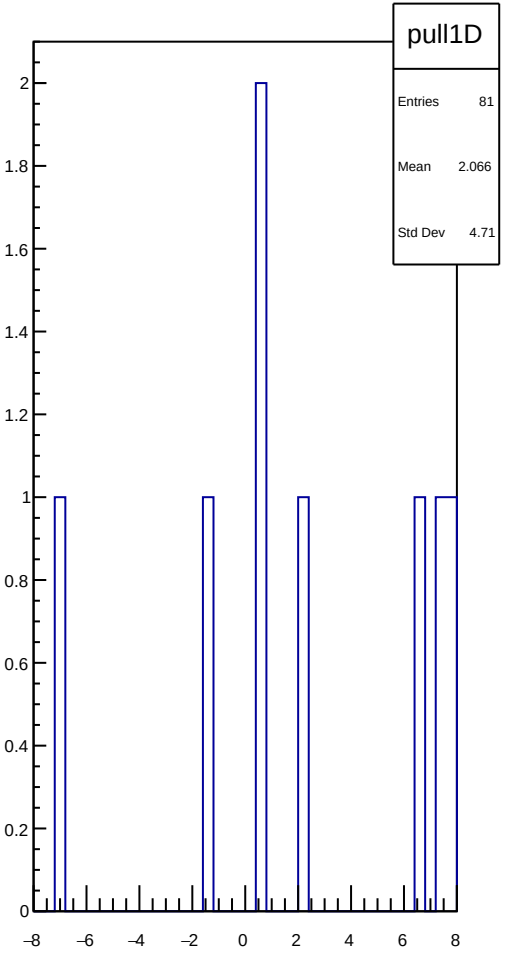

yield_cav4bY_rms vs run
χ² / ndf 5.535e+04 / 80
p0 0.008059 ± 6.602e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

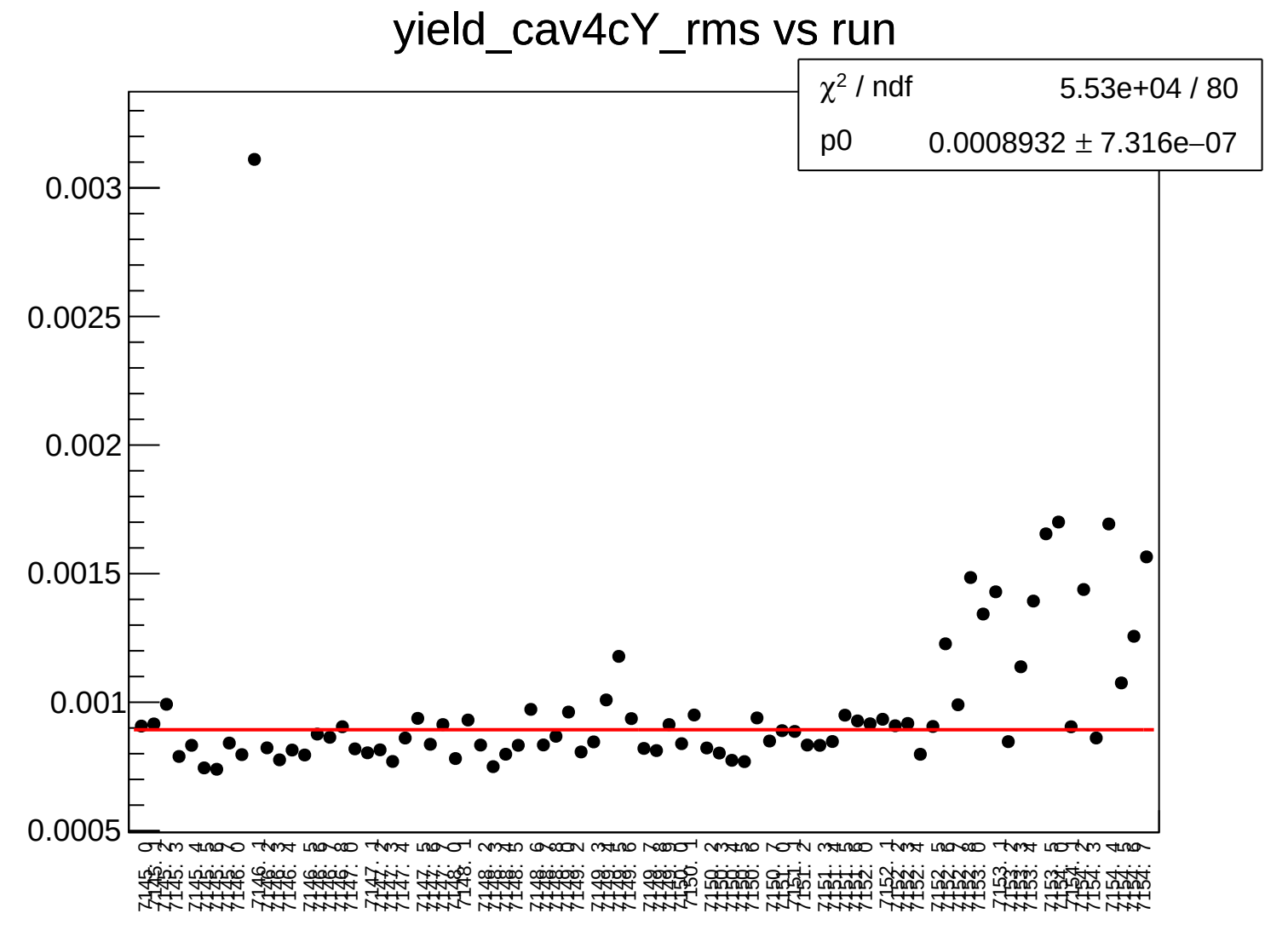

yield_cav4cX_mean vs run
χ² / ndf 3.075e+05 / 80
p0 0.001017 ± 1.735e−06
0.006
0.005
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 81
Mean −23.41
Std Dev 60.17
150
100
50
0
−50
−100

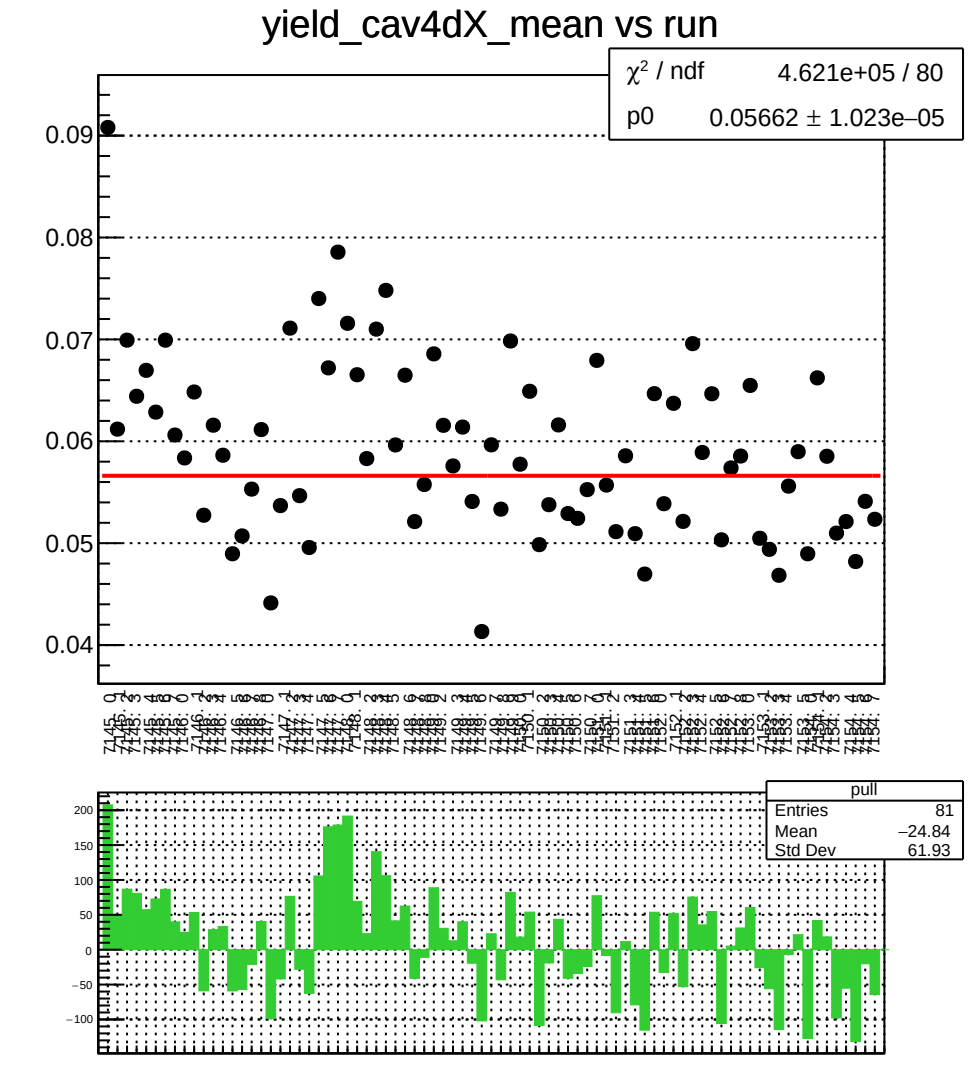

pull1D
Entries 81
Mean 1.015
Std Dev 3.859
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

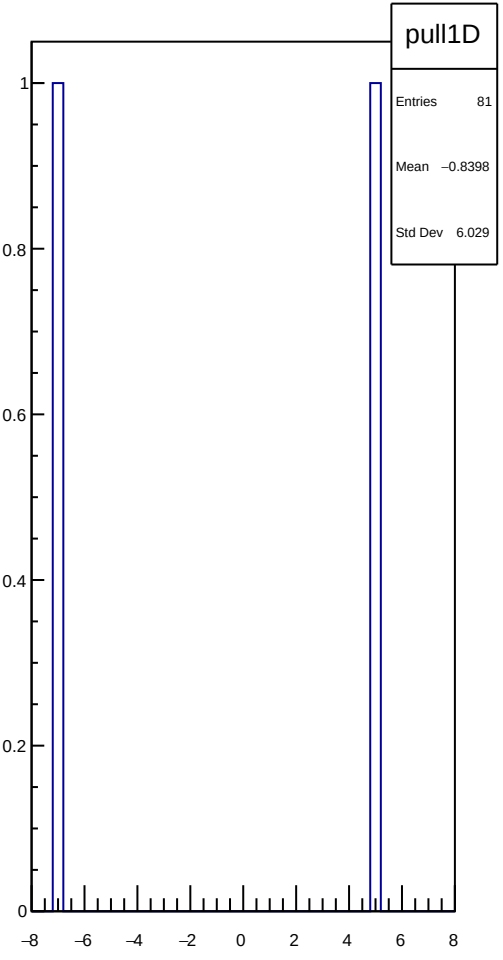

yield_cav4cX_rms vs run
χ² / ndf 2.002e+05 / 80
p0 0.001423 ± 1.227e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

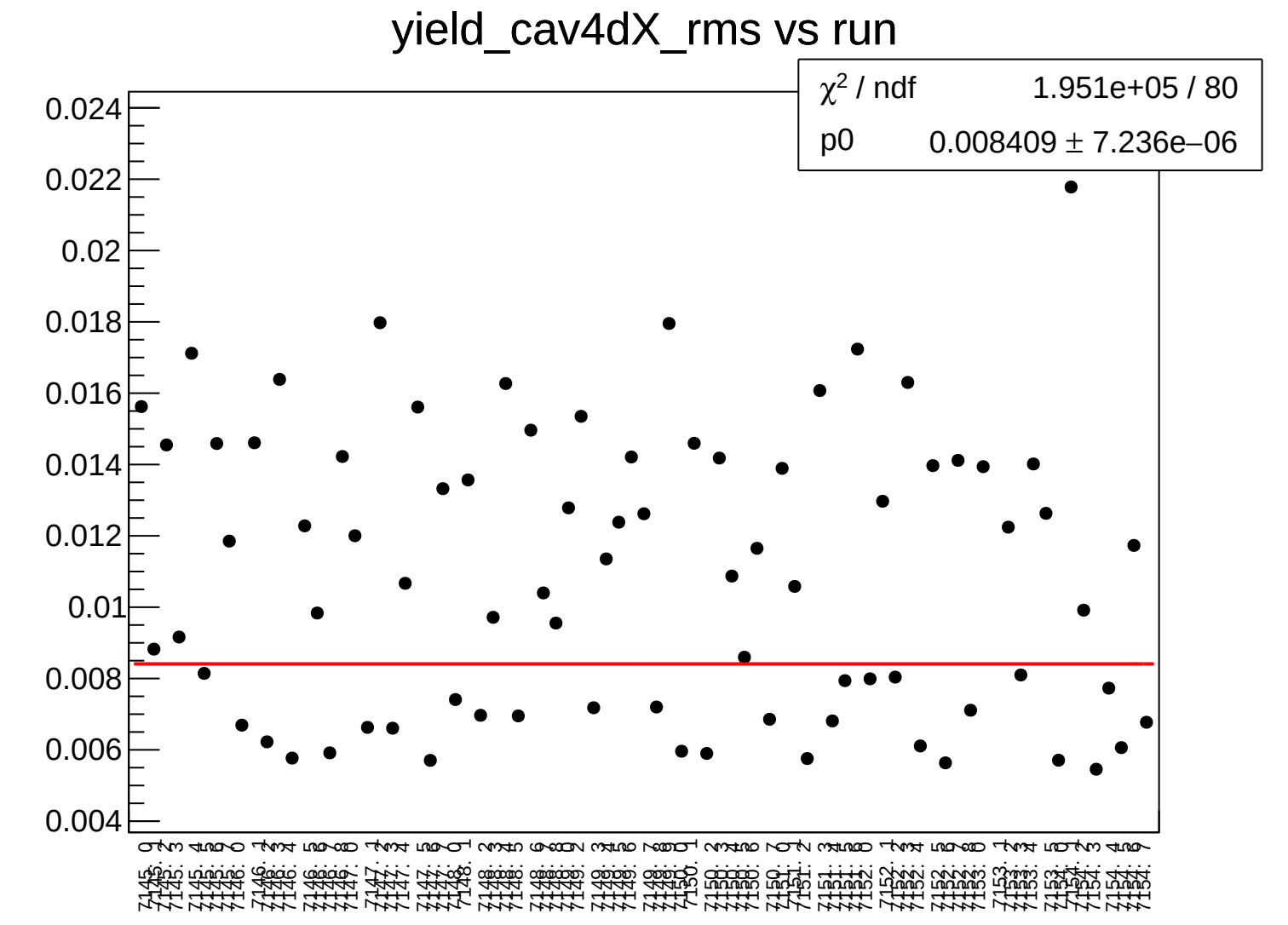

yield_cav4cY_mean vs run
χ² / ndf 7.571e+05 / 80
p0 −0.1184 ± 1.035e−06
−0.116
−0.117
−0.118
−0.119
−0.12
−0.121
−0.122
pull
Entries 81
Mean 160.4
Std Dev 108.1
100
50
0
−50
−100
−150
−200
−250
−300

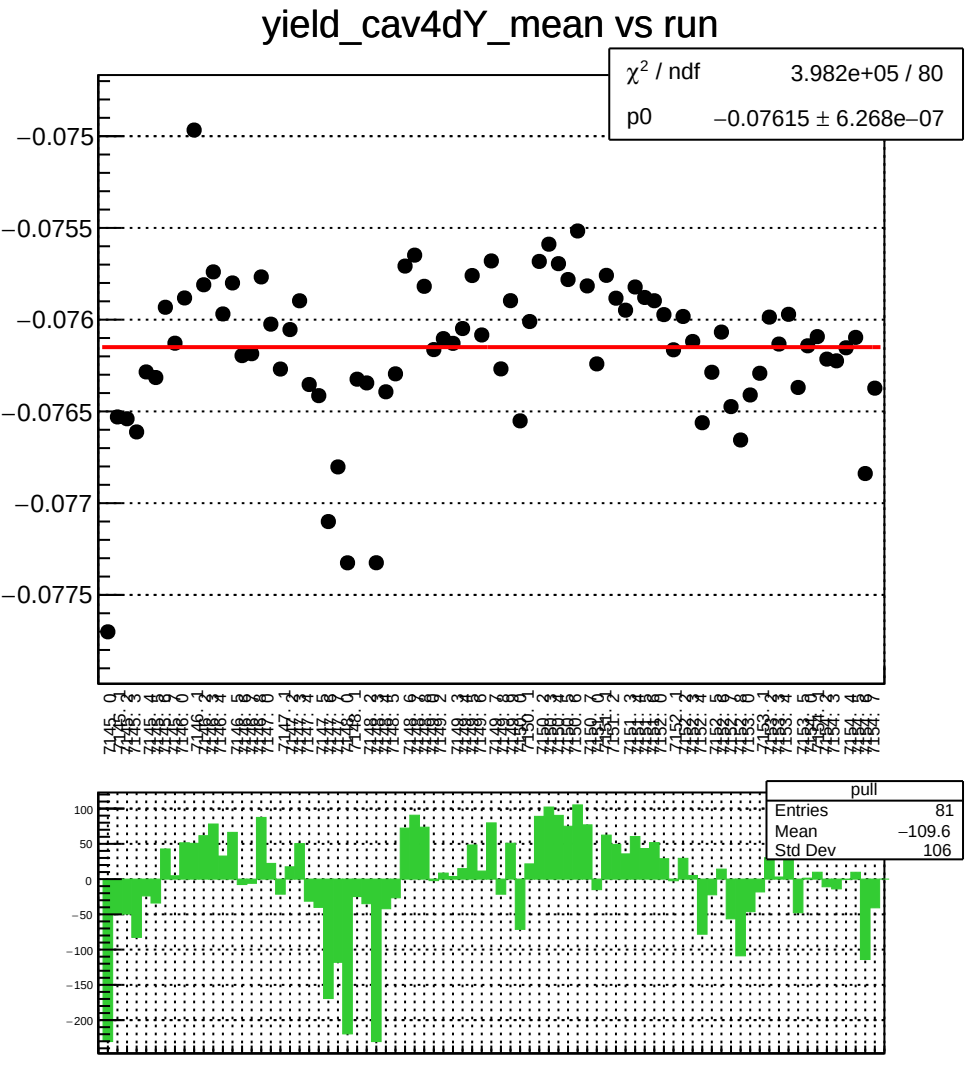

pull1D
Entries 81
Mean 2.066
Std Dev 4.71
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

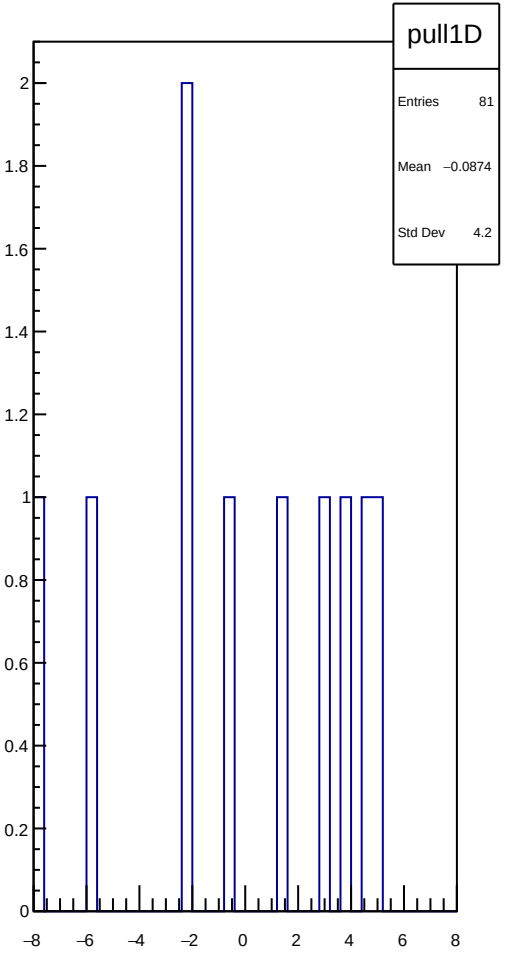

yield_cav4cY_rms vs run
χ² / ndf 5.53e+04 / 80
p0 0.0008932 ± 7.316e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

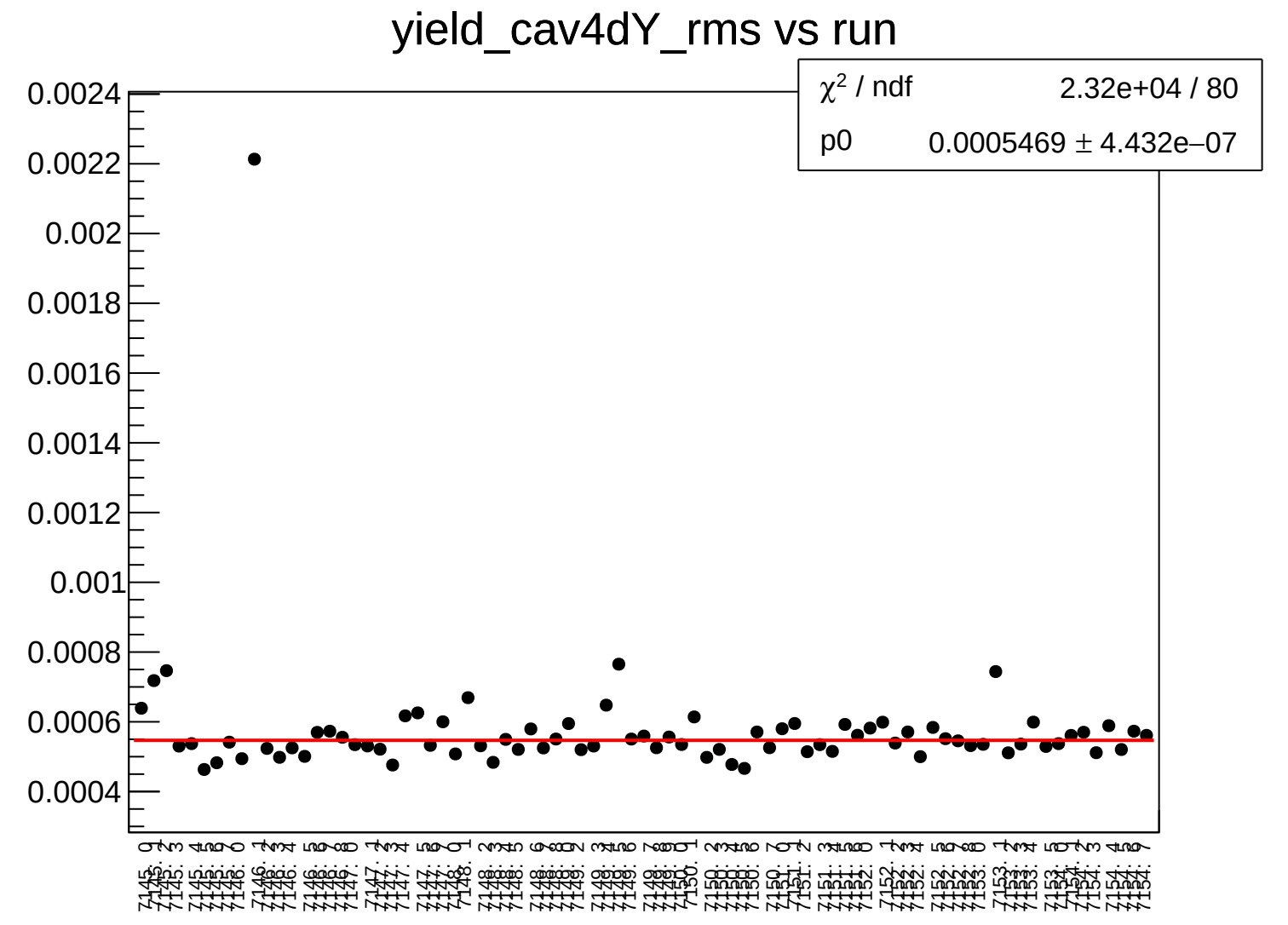

yield_cav4dX_mean vs run
χ² / ndf 4.621e+05 / 80
p0 0.05662 ± 1.023e−05
0.09
0.08
0.07
0.06
0.05
0.04
pull
Entries 81
Mean −24.84
Std Dev 61.93
200
150
100
50
0
−50
−100

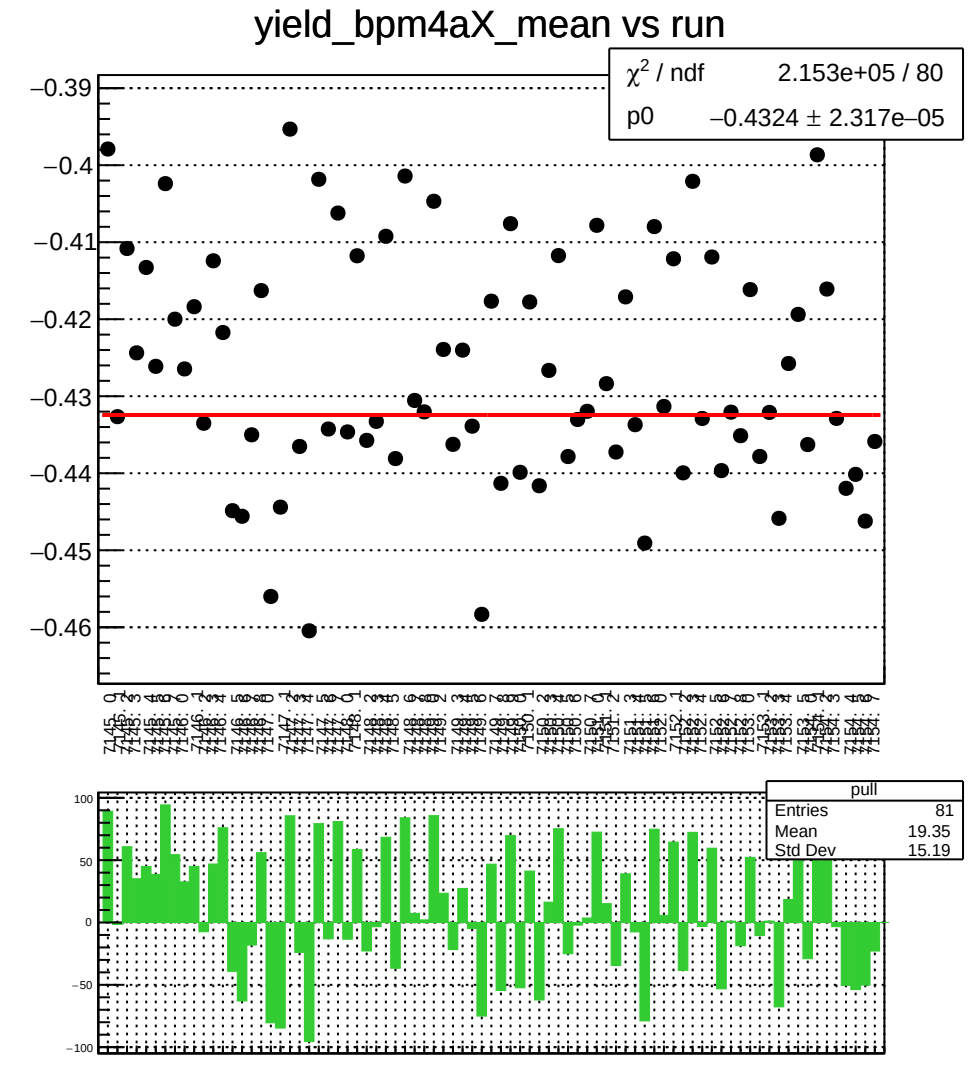

pull1D
Entries 81
Mean −0.8398
Std Dev 6.029
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

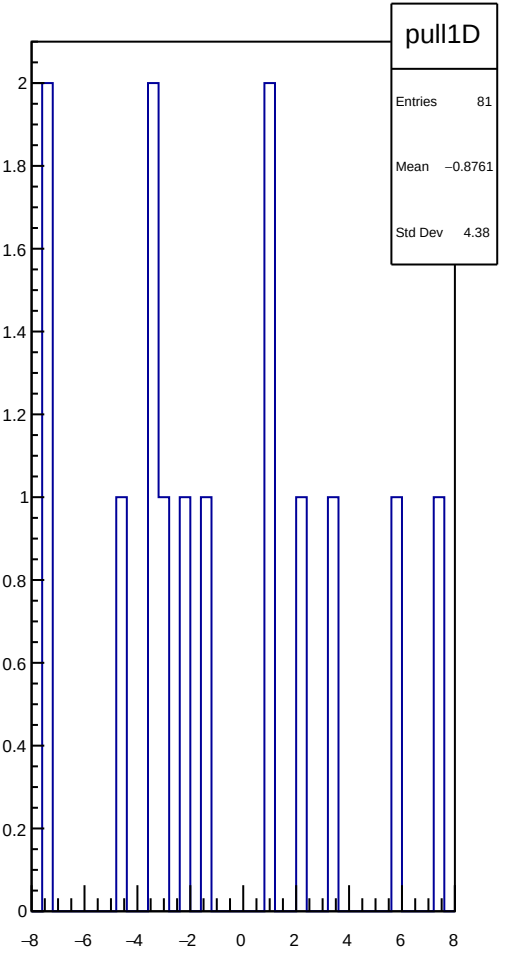

yield_cav4dX_rms vs run
χ² / ndf 1.951e+05 / 80
p0 0.008409 ± 7.236e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

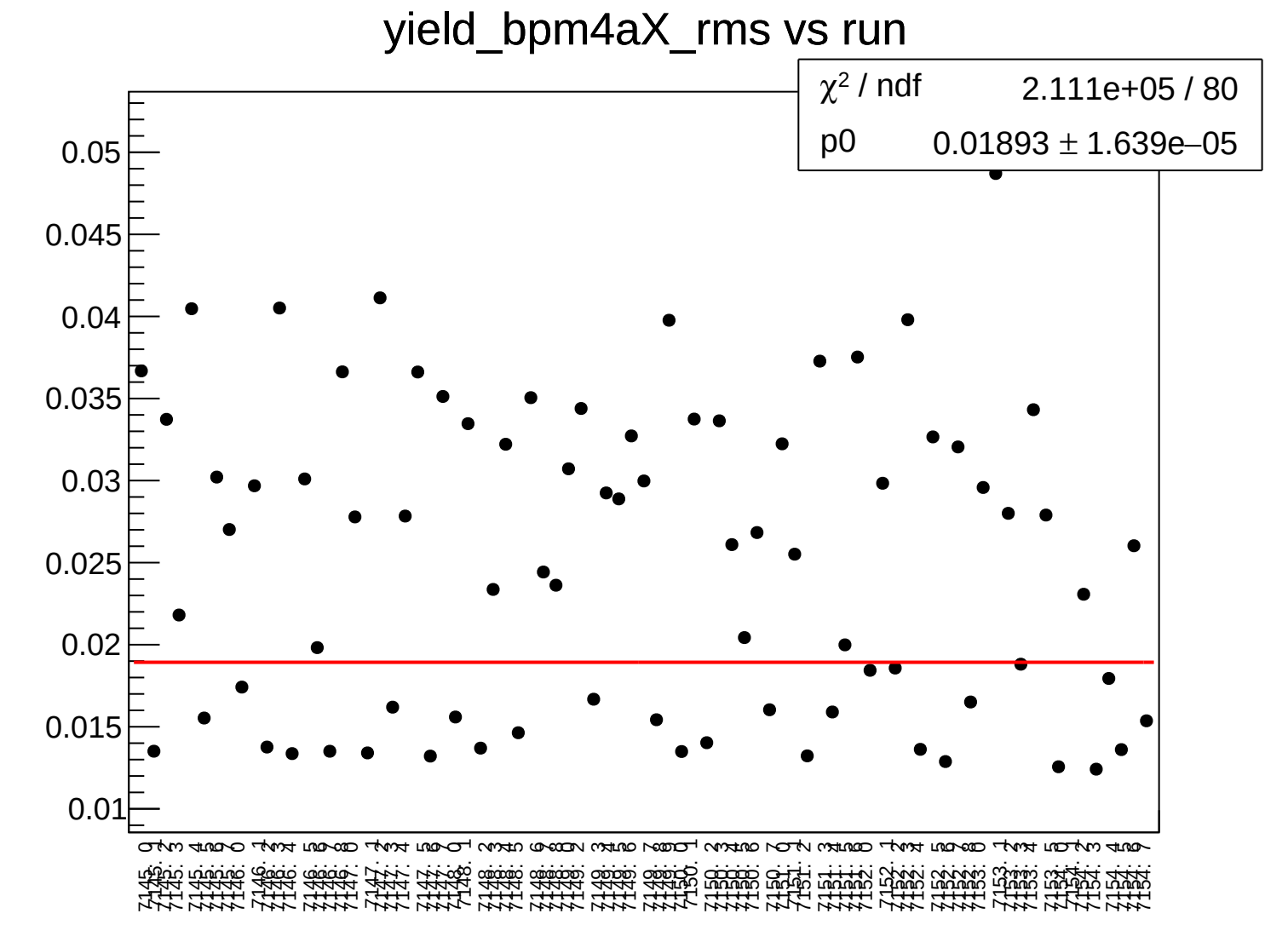

yield_cav4dY_mean vs run
χ² / ndf 3.982e+05 / 80
p0 −0.07615 ± 6.268e−07
−0.075
−0.0755
−0.076
−0.0765
−0.077
−0.0775
pull
Entries 81
Mean −109.6
Std Dev 106
100
50
0
−50
−100
−150
−200

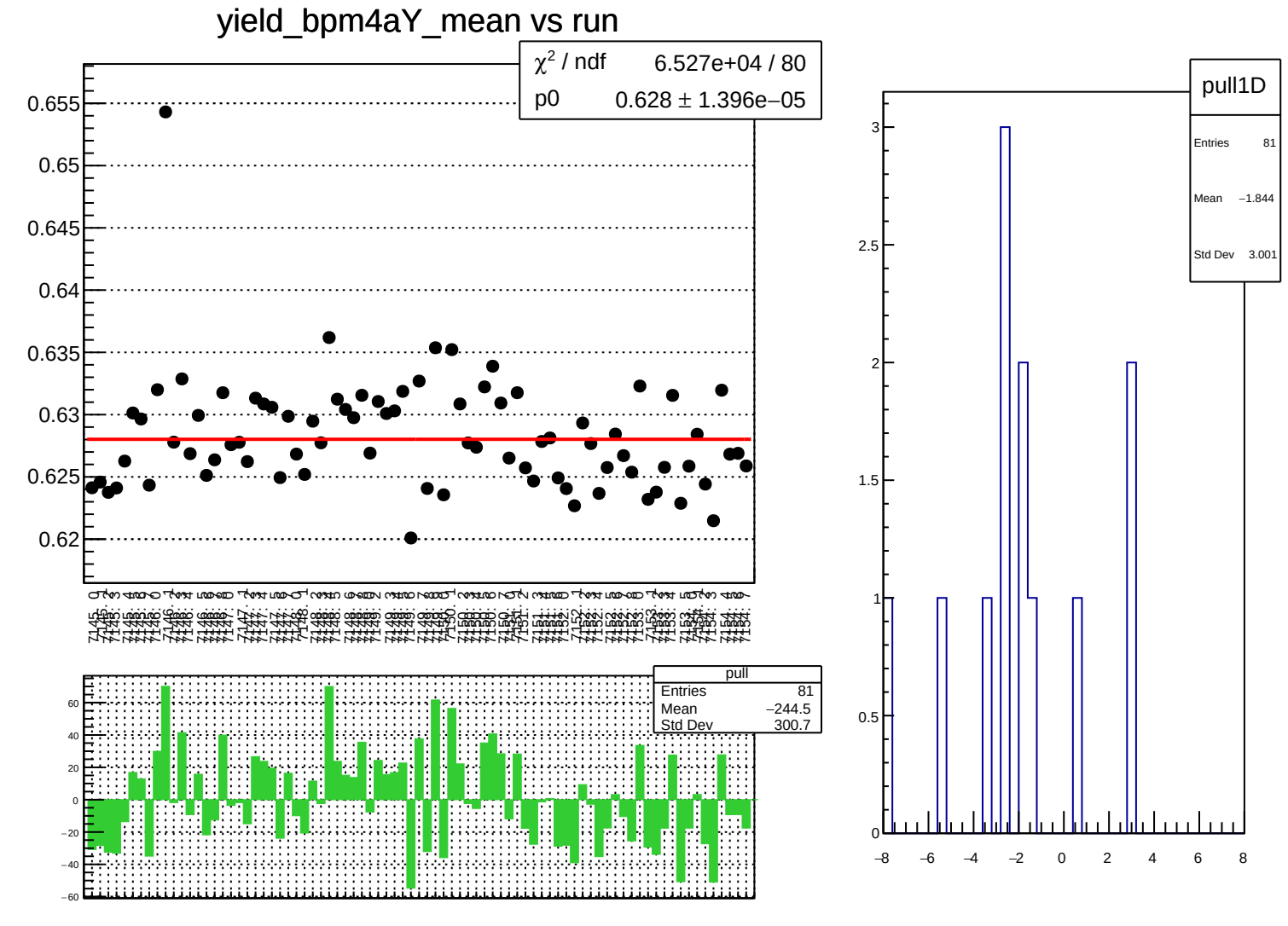

pull1D
Entries 81
Mean −0.0874
Std Dev 4.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

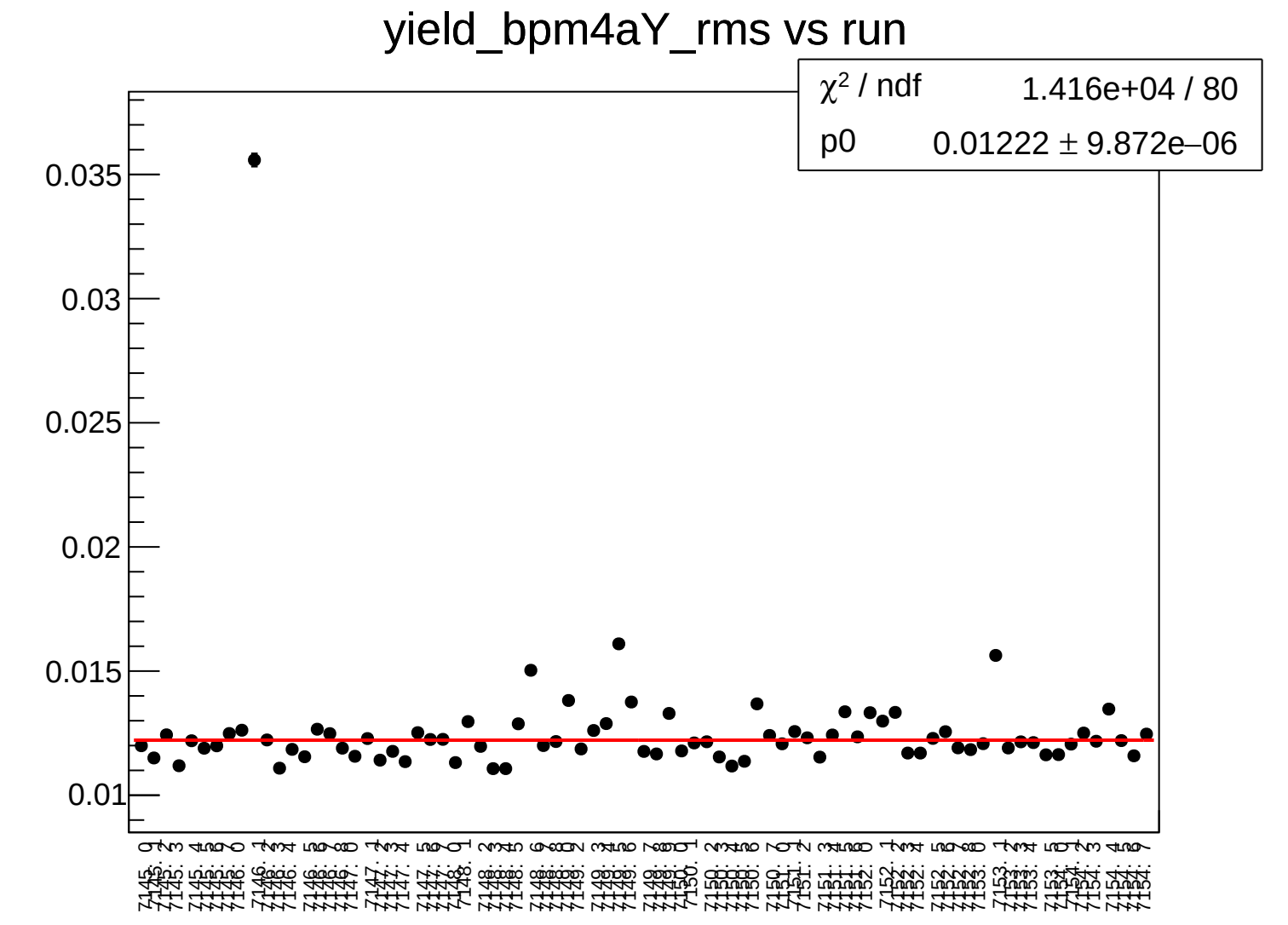

yield_cav4dY_rms vs run
χ² / ndf 2.32e+04 / 80
p0 0.0005469 ± 4.432e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

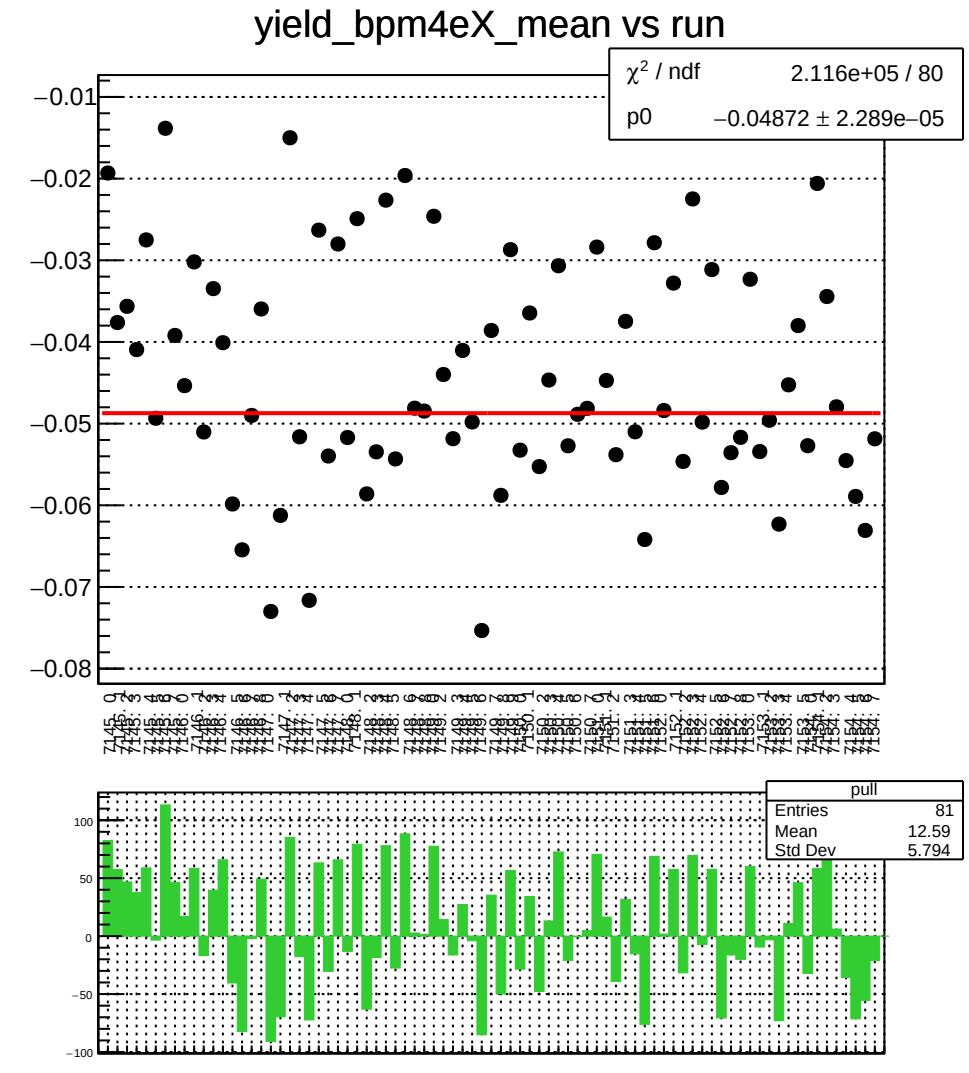

yield_bpm4aX_mean vs run
χ² / ndf 2.153e+05 / 80
p0 −0.4324 ± 2.317e−05
−0.39
−0.4
−0.41
−0.42
−0.43
−0.44
−0.45
−0.46
pull
Entries 81
Mean 19.35
Std Dev 15.19
100
50
0
−50
−100

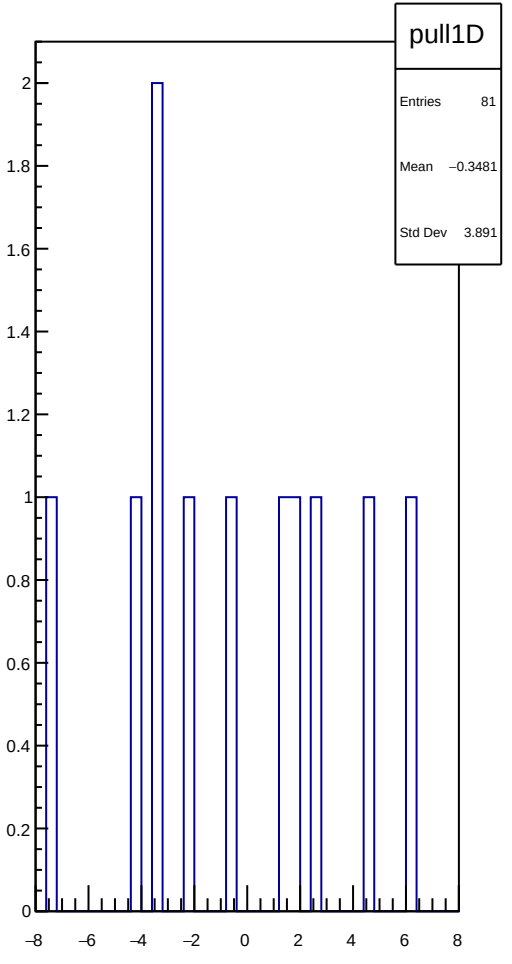

pull1D
Entries 81
Mean −0.8761
Std Dev 4.38
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

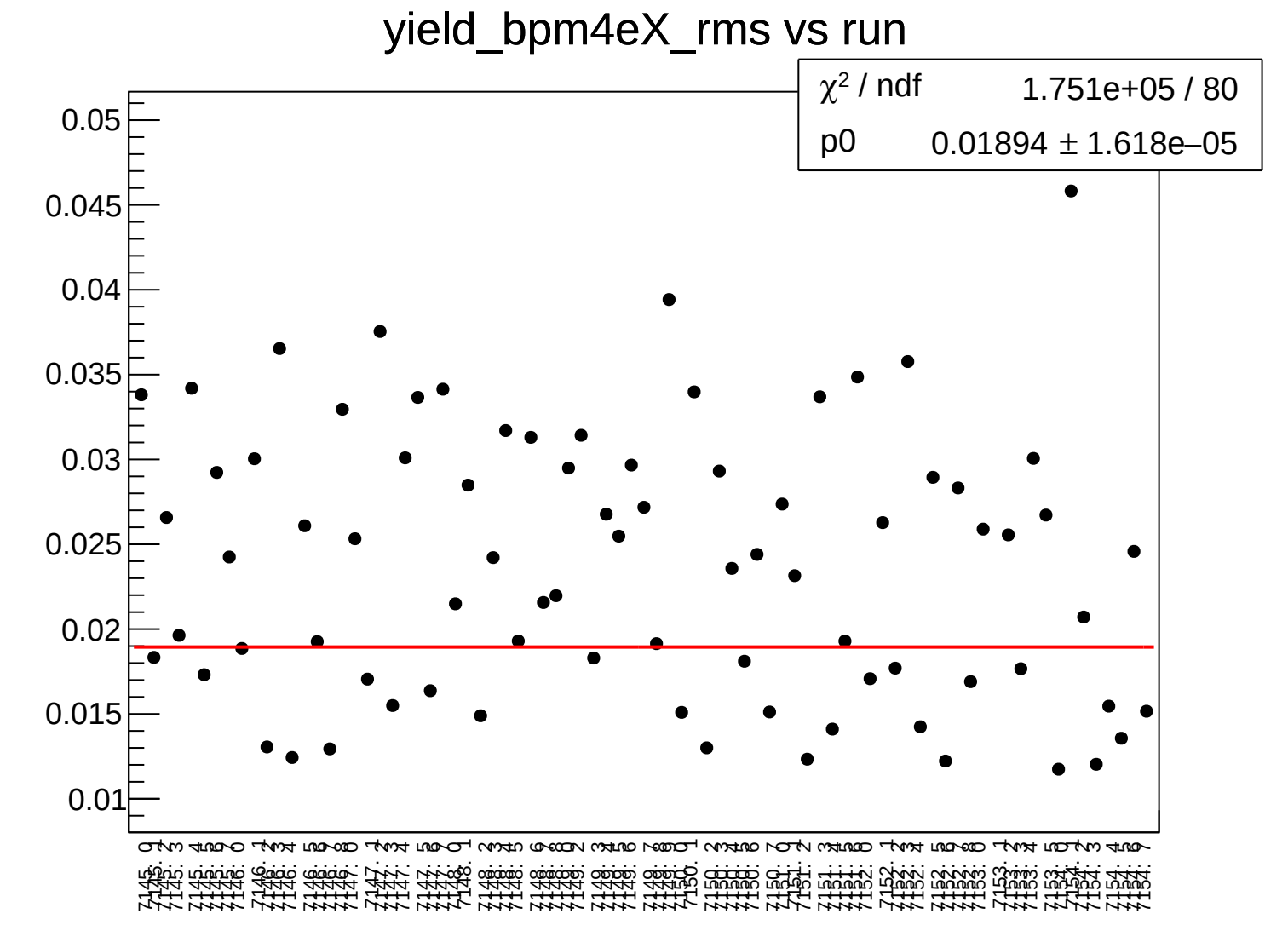

yield_bpm4aX_rms vs run
χ² / ndf 2.111e+05 / 80
p0 0.01893 ± 1.639e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

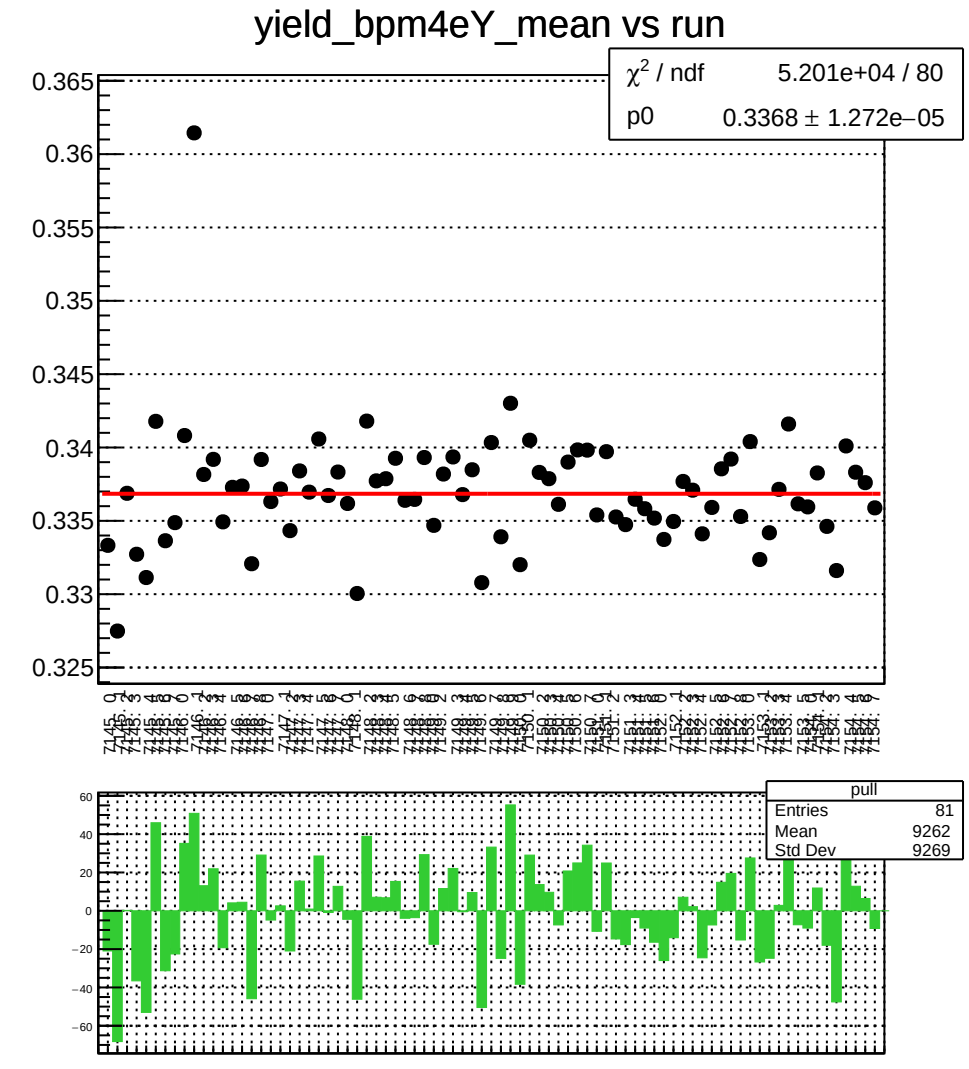

yield_bpm4aY_mean vs run
χ² / ndf 6.527e+04 / 80
p0 0.628 ± 1.396e−05
0.655
0.65
0.645
0.64
0.635
0.63
0.625
0.62
pull
Entries 81
Mean −244.5
Std Dev 300.7
60
40
20
0
−20
−40
−60
pull1D
Entries 81
Mean −1.844
Std Dev 3.001
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

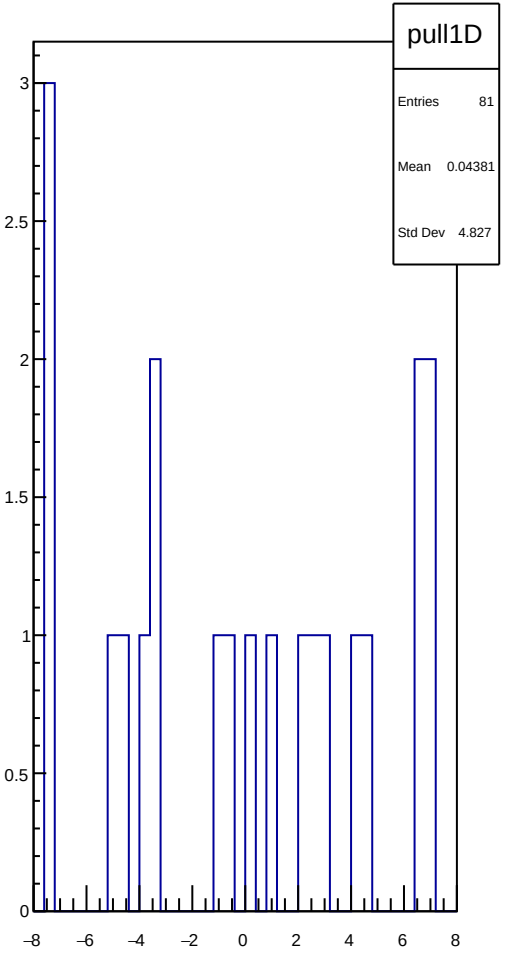

yield_bpm4aY_rms vs run
χ² / ndf 1.416e+04 / 80
p0 0.01222 ± 9.872e–06
0.035
0.03
0.025
0.02
0.015
0.01

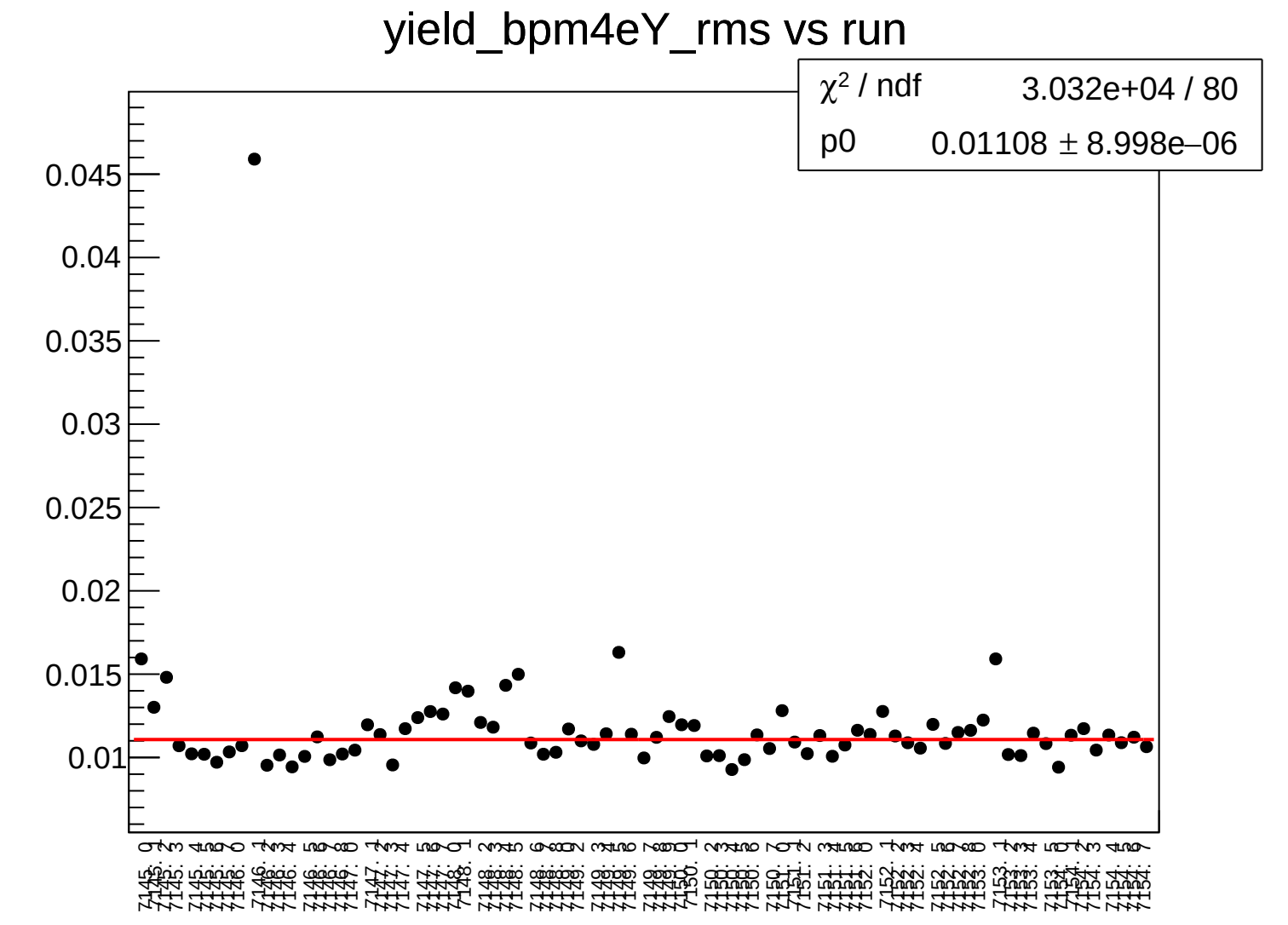

yield_bpm4eX_mean vs run
χ² / ndf 2.116e+05 / 80
p0 −0.04872 ± 2.289e−05
−0.01
−0.02
−0.03
−0.04
−0.05
−0.06
−0.07
−0.08
pull
Entries 81
Mean 12.59
Std Dev 5.794
100
50
0
−50
−100

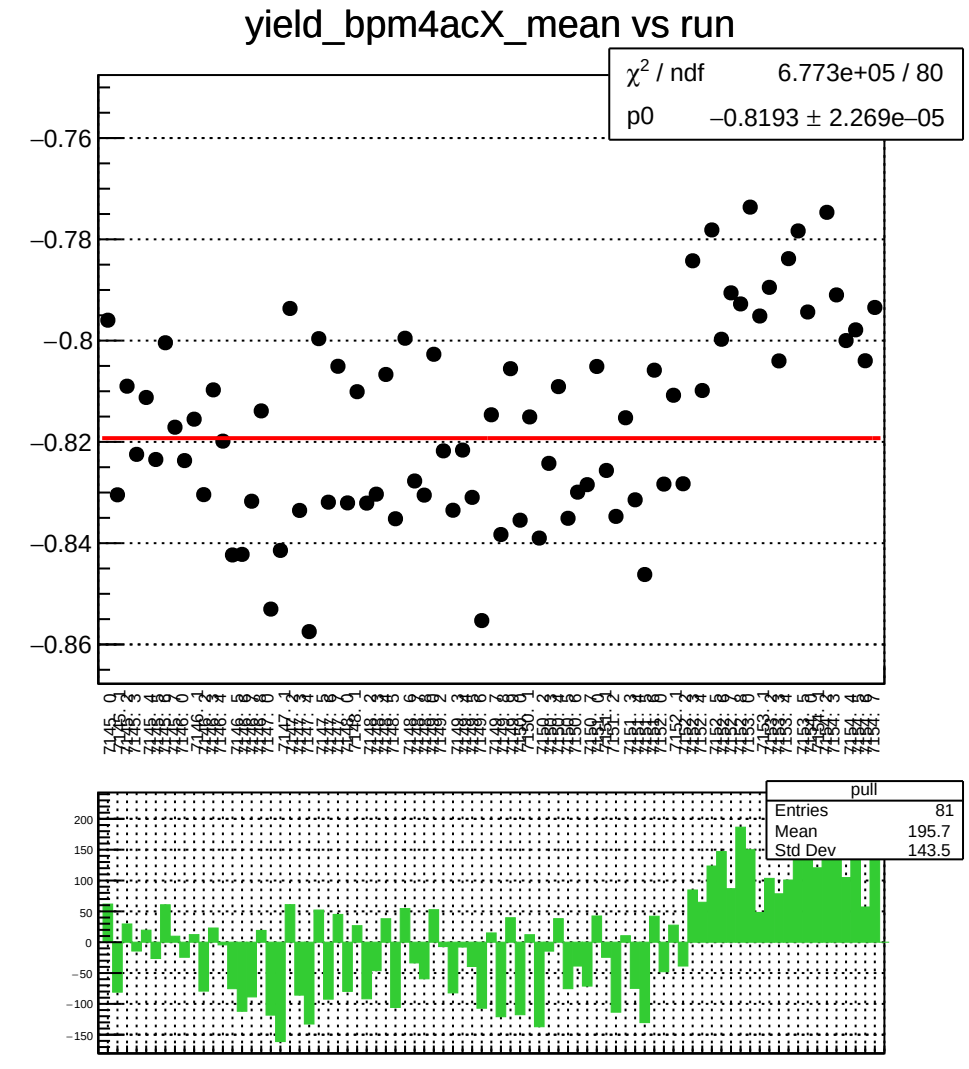

pull1D
Entries 81
Mean −0.3481
Std Dev 3.891
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

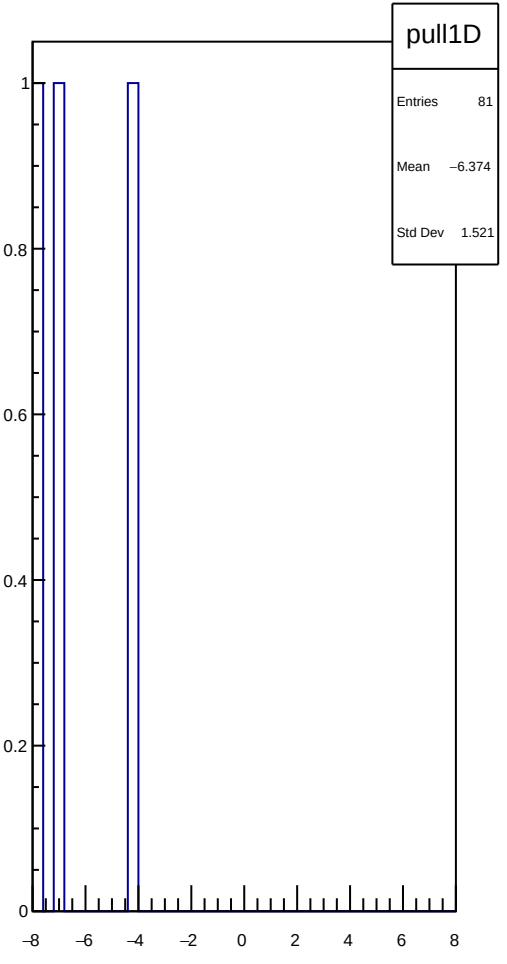

yield_bpm4eX_rms vs run
χ² / ndf 1.751e+05 / 80
p0 0.01894 ± 1.618e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

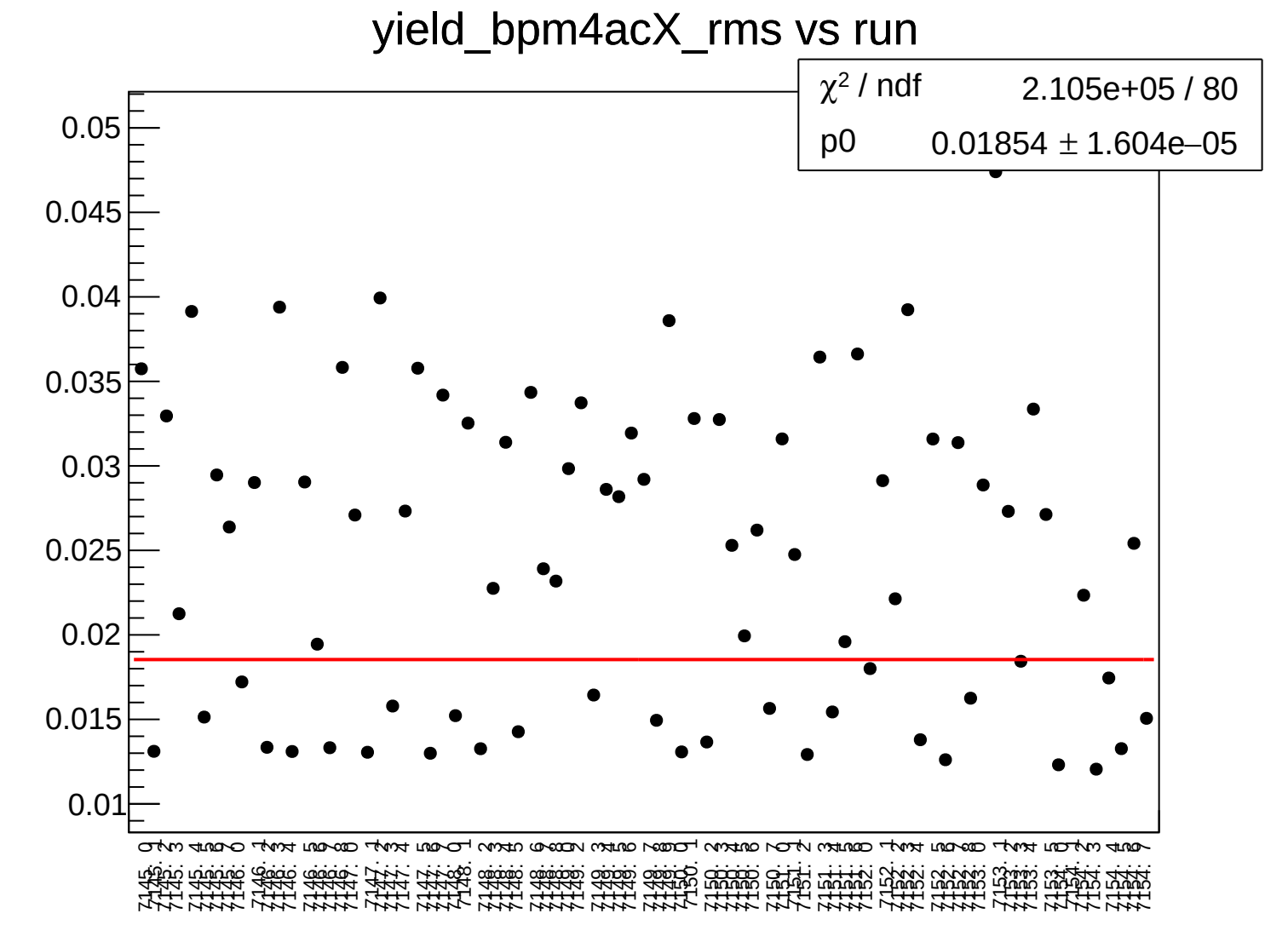

yield_bpm4eY_mean vs run
χ² / ndf 5.201e+04 / 80
p0 0.3368 ± 1.272e−05
0.365
0.36
0.355
0.35
0.345
0.34
0.335
0.33
0.325
pull
Entries 81
Mean 9262
Std Dev 9269
60
40
20
0
−20
−40
−60

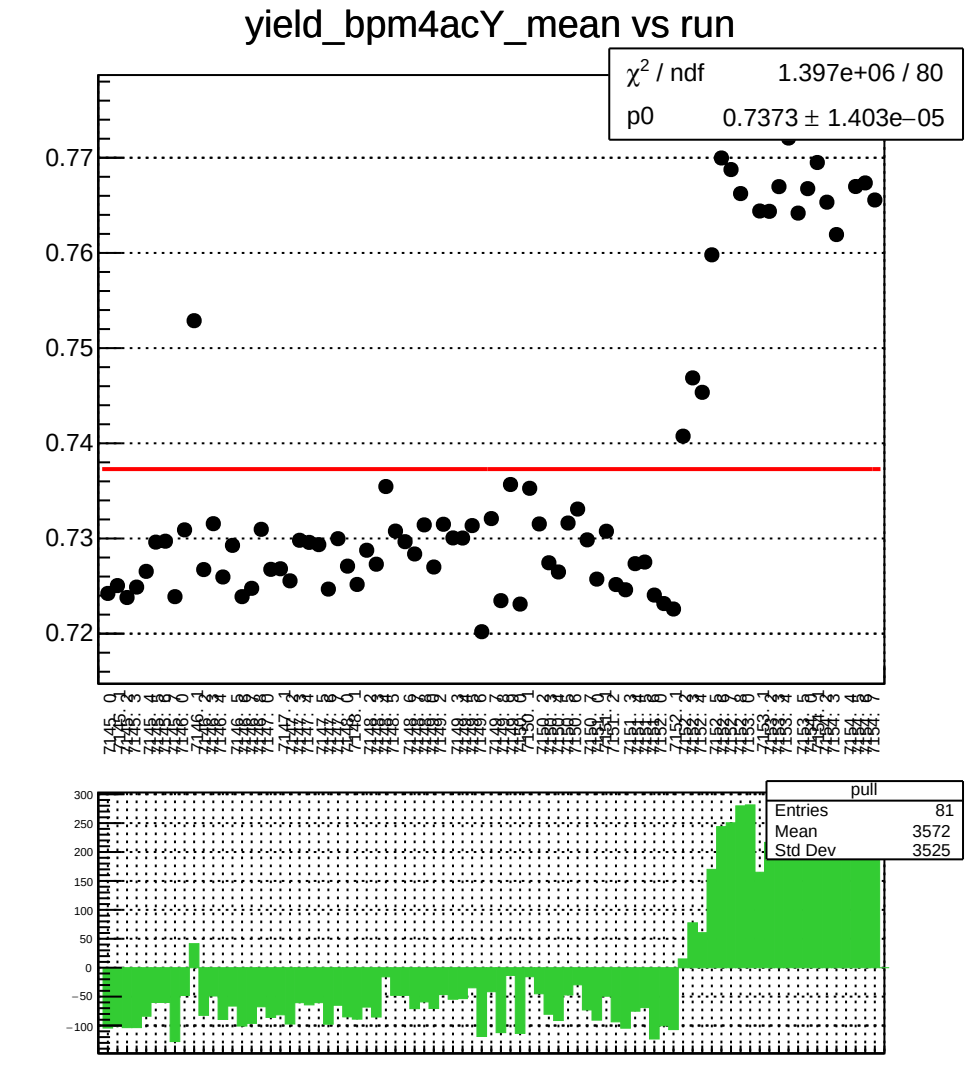

pull1D
Entries 81
Mean 0.04381
Std Dev 4.827
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

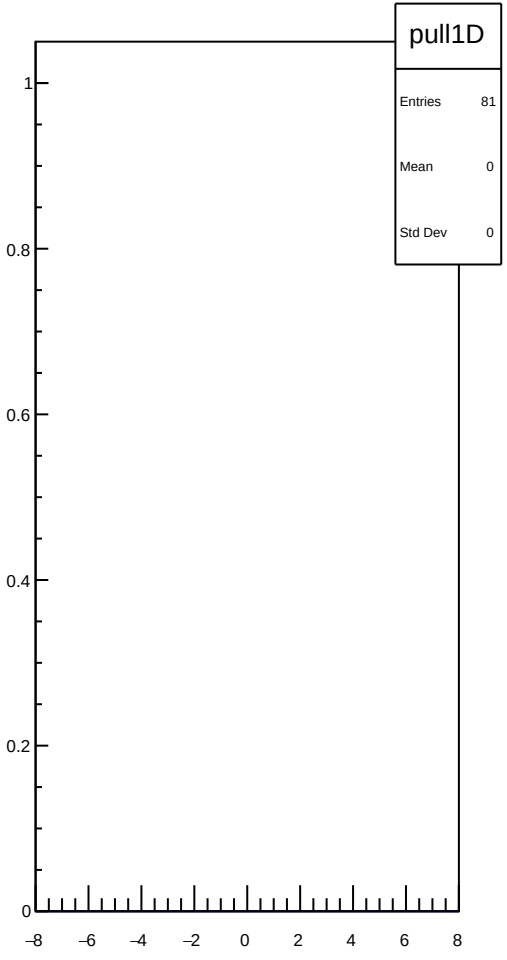

yield_bpm4eY_rms vs run
χ² / ndf 3.032e+04 / 80
p0 0.01108 ± 8.998e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

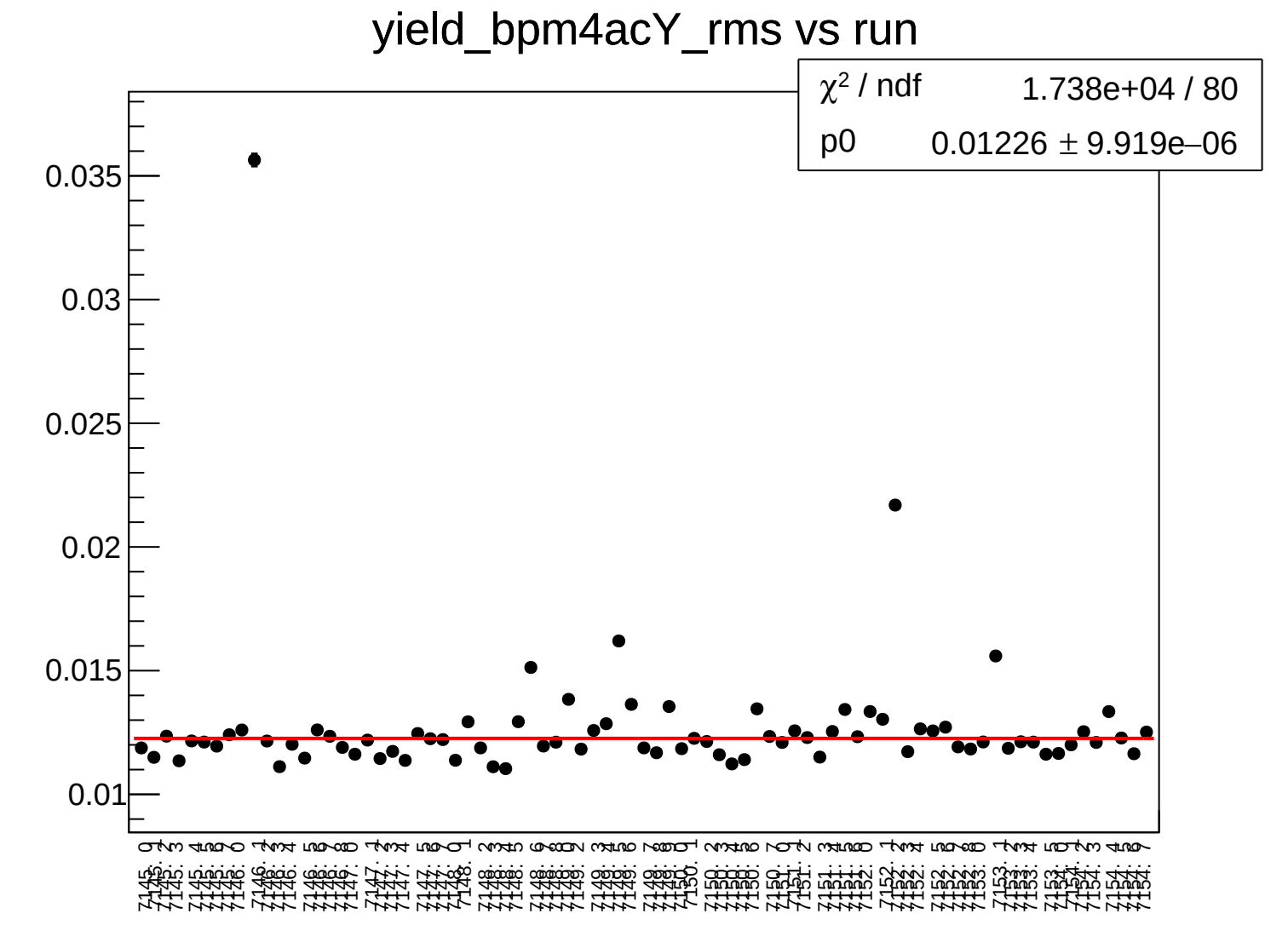

yield_bpm4acX_mean vs run
χ² / ndf 6.773e+05 / 80
p0 −0.8193 ± 2.269e−05
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
pull
Entries 81
Mean 195.7
Std Dev 143.5
200
150
100
50
0
−50
−100
−150

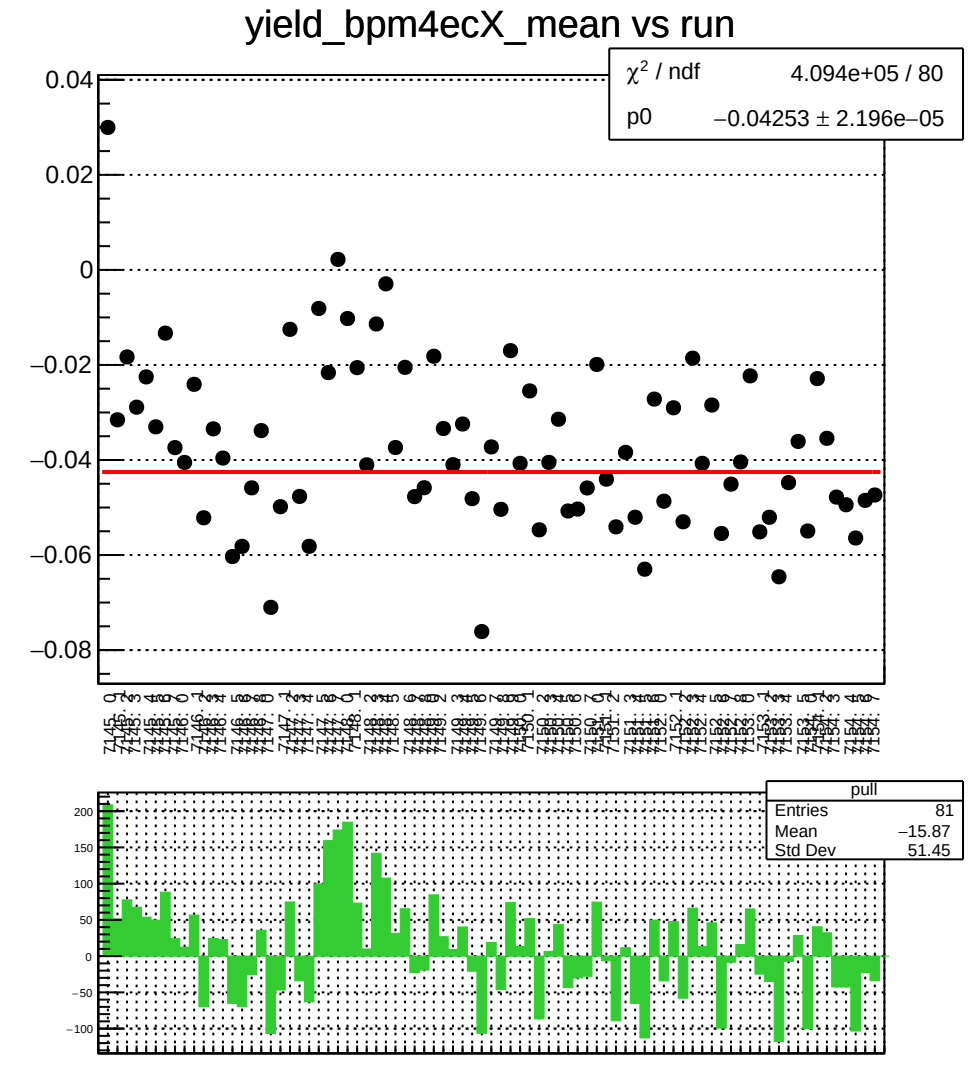

pull1D
Entries 81
Mean −6.374
Std Dev 1.521
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

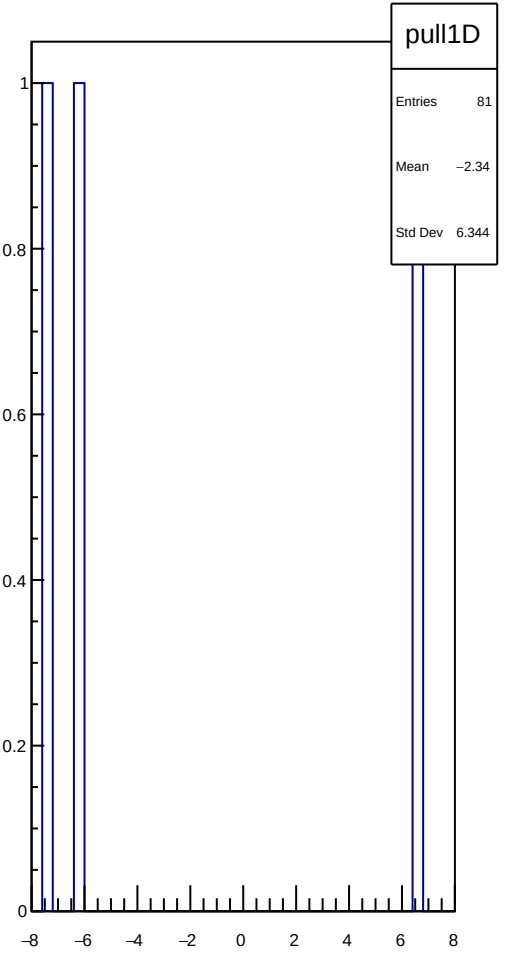

yield_bpm4acX_rms vs run
χ² / ndf 2.105e+05 / 80
p0 0.01854 ± 1.604e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

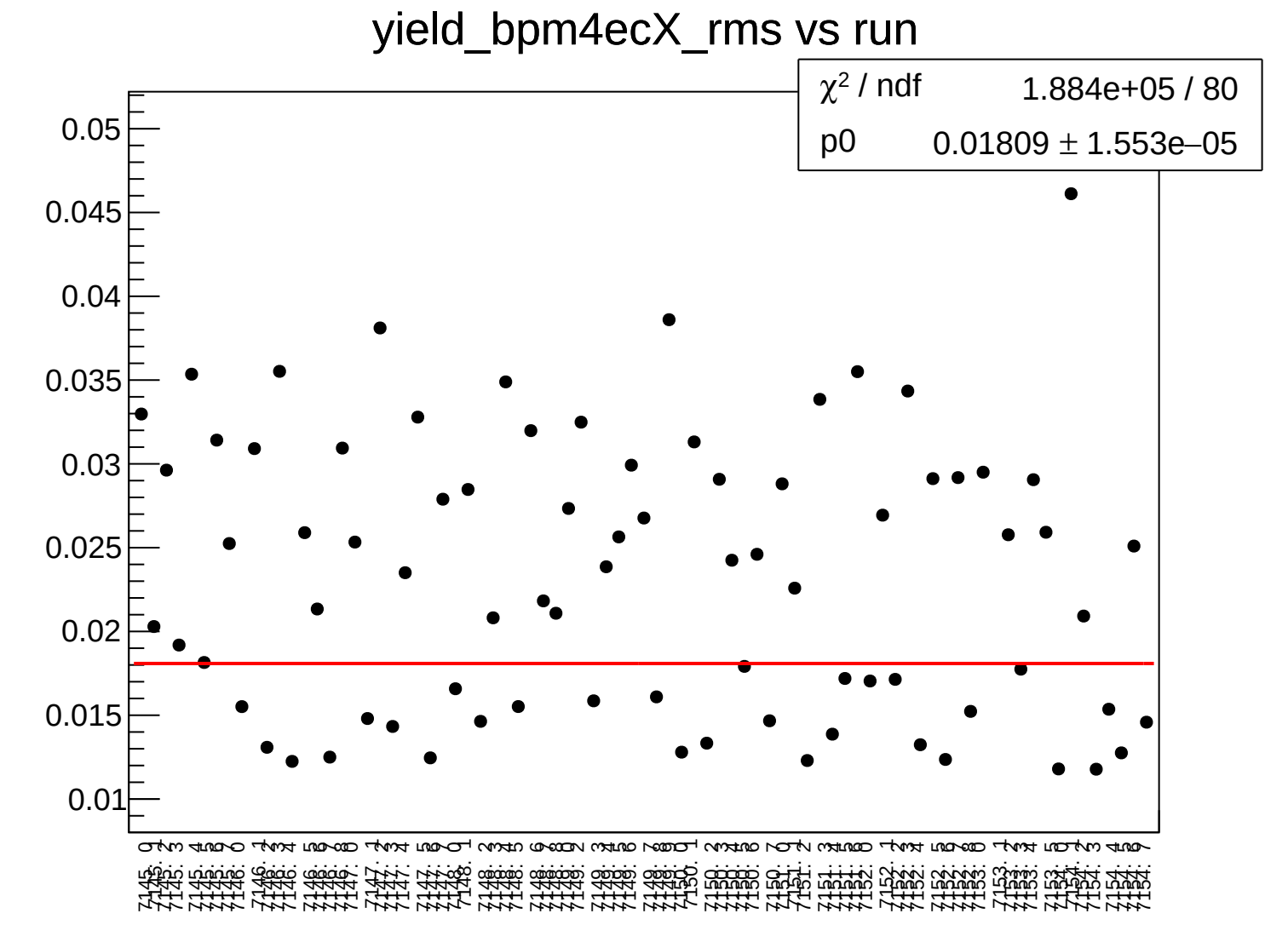

yield_bpm4acY_mean vs run
χ² / ndf 1.397e+06 / 80
p0 0.7373 ± 1.403e−05
0.77
0.76
0.75
0.74
0.73
0.72
pull
Entries 81
Mean 3572
Std Dev 3525
300
250
200
150
100
50
0
−50
−100

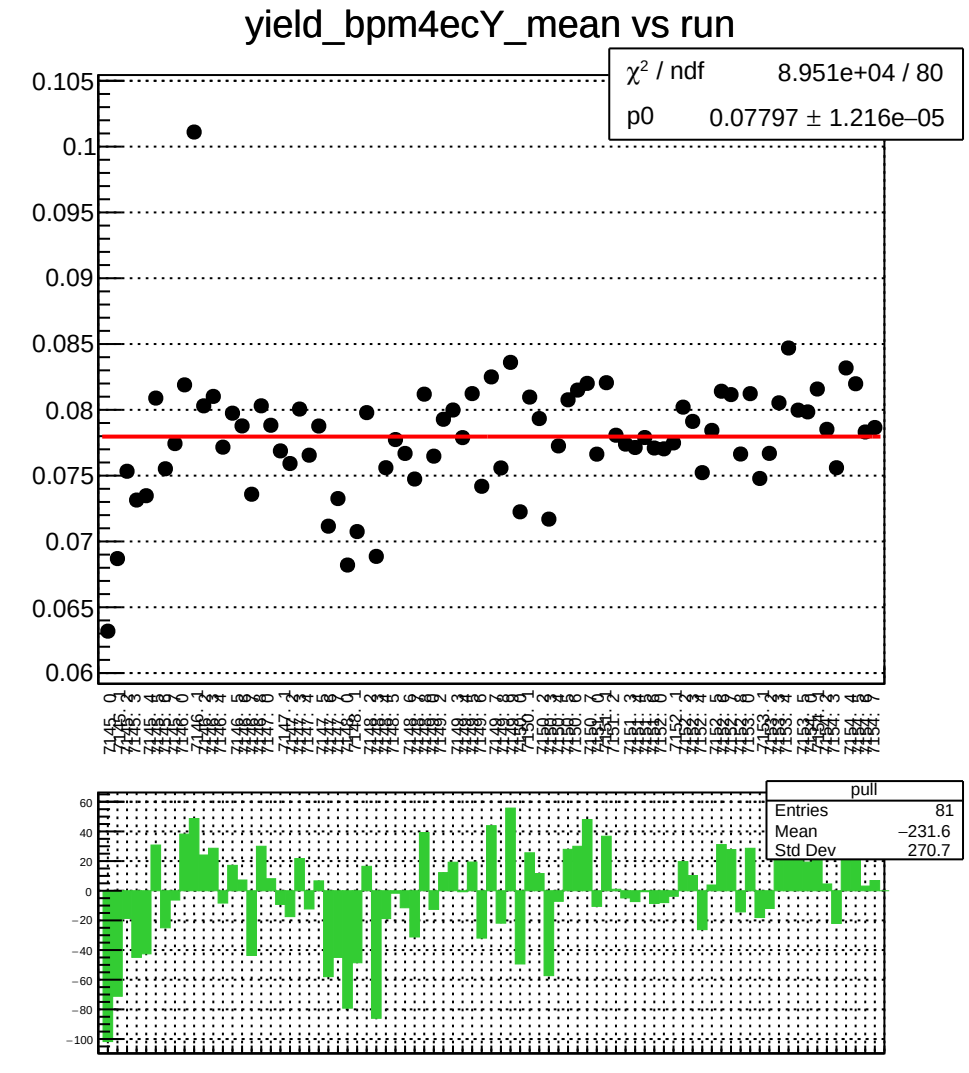

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

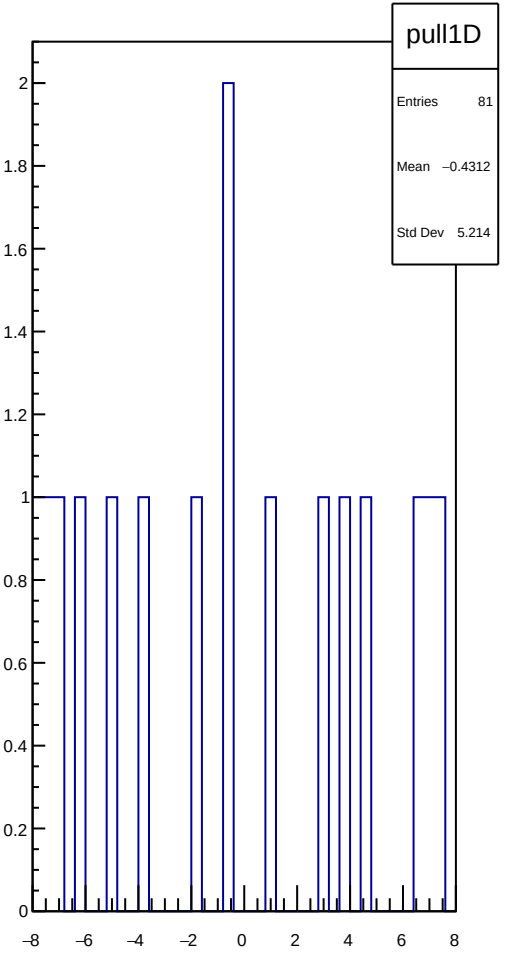

yield_bpm4acY_rms vs run
χ² / ndf 1.738e+04 / 80
p0 0.01226 ± 9.919e–06
0.035
0.03
0.025
0.02
0.015
0.01

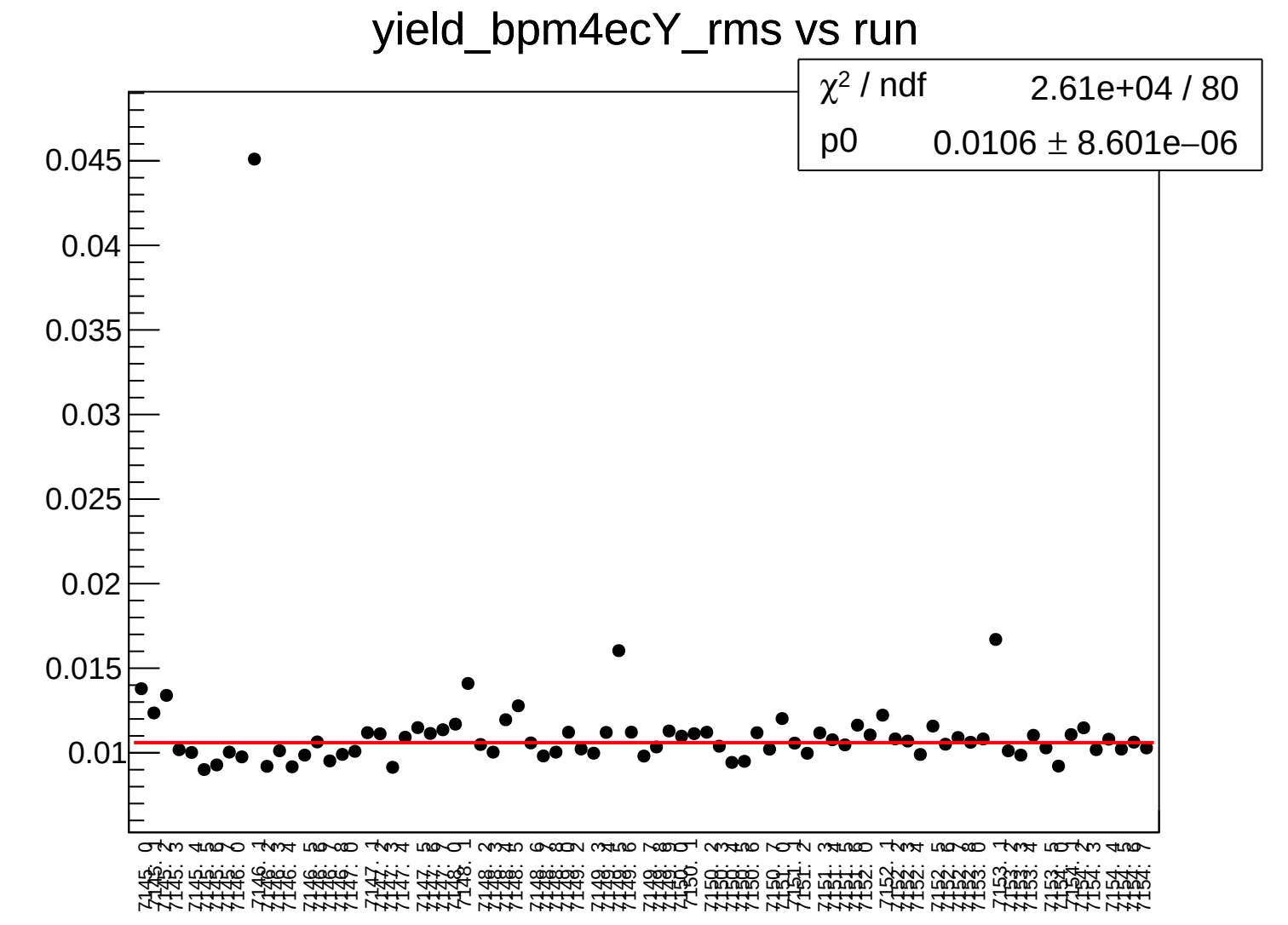

yield_bpm4ecX_mean vs run
χ² / ndf 4.094e+05 / 80
p0 −0.04253 ± 2.196e−05
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 81
Mean −15.87
Std Dev 51.45
200
150
100
50
0
−50
−100

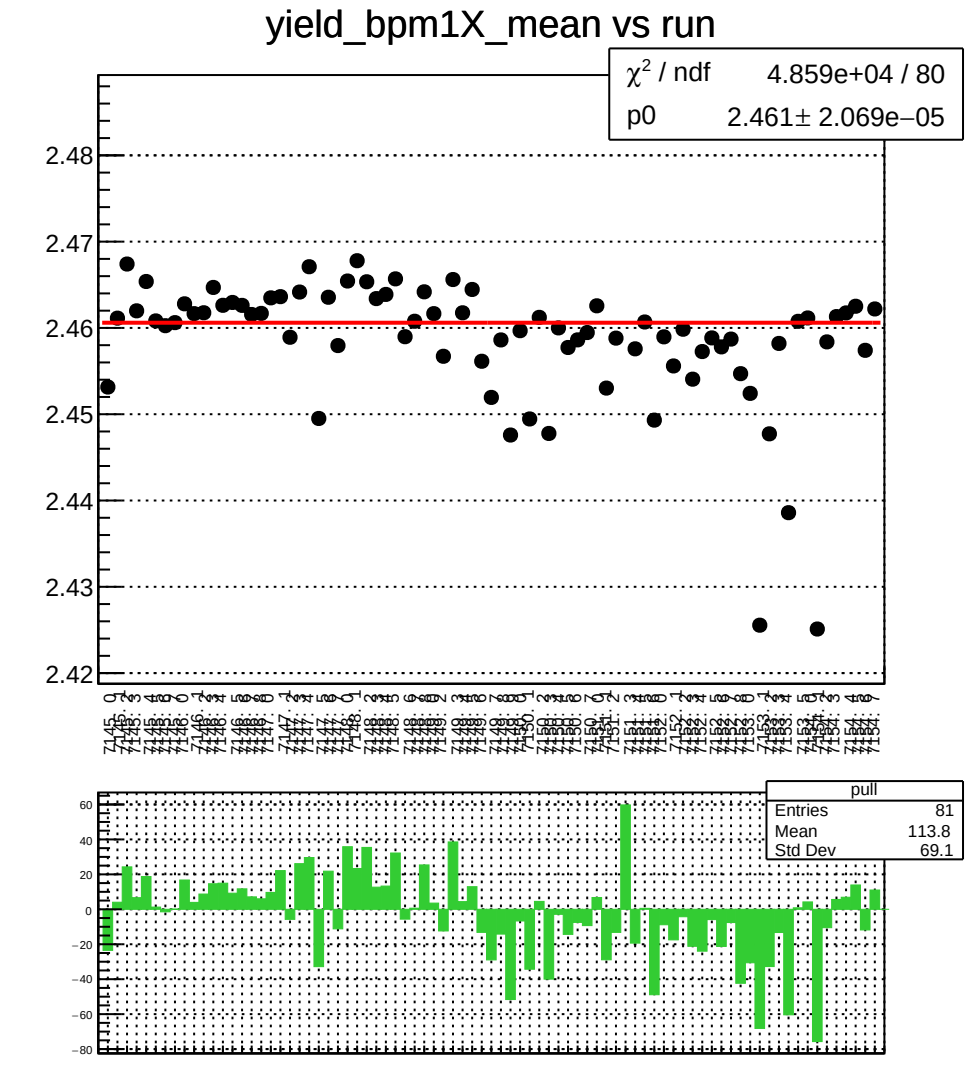

pull1D
Entries 81
Mean −2.34
Std Dev 6.344
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

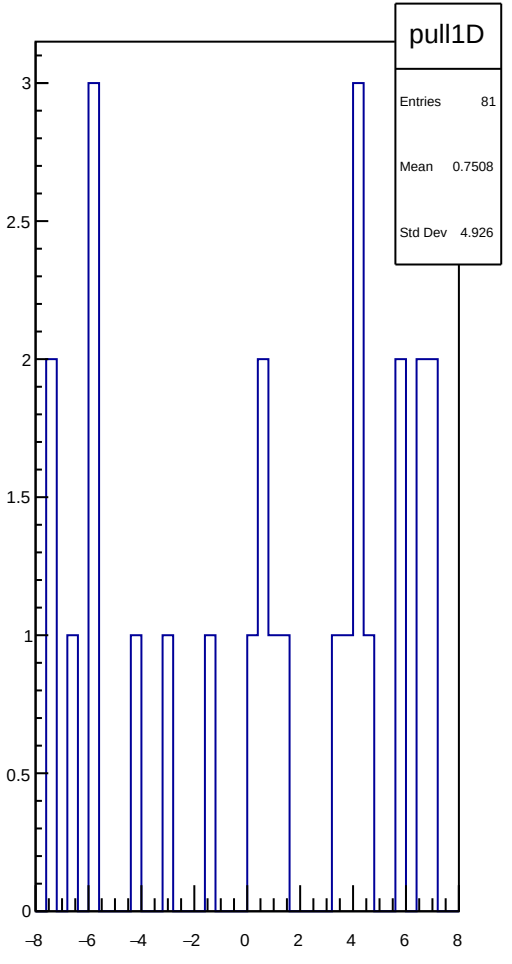

yield_bpm4ecX_rms vs run
χ² / ndf 1.884e+05 / 80
p0 0.01809 ± 1.553e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

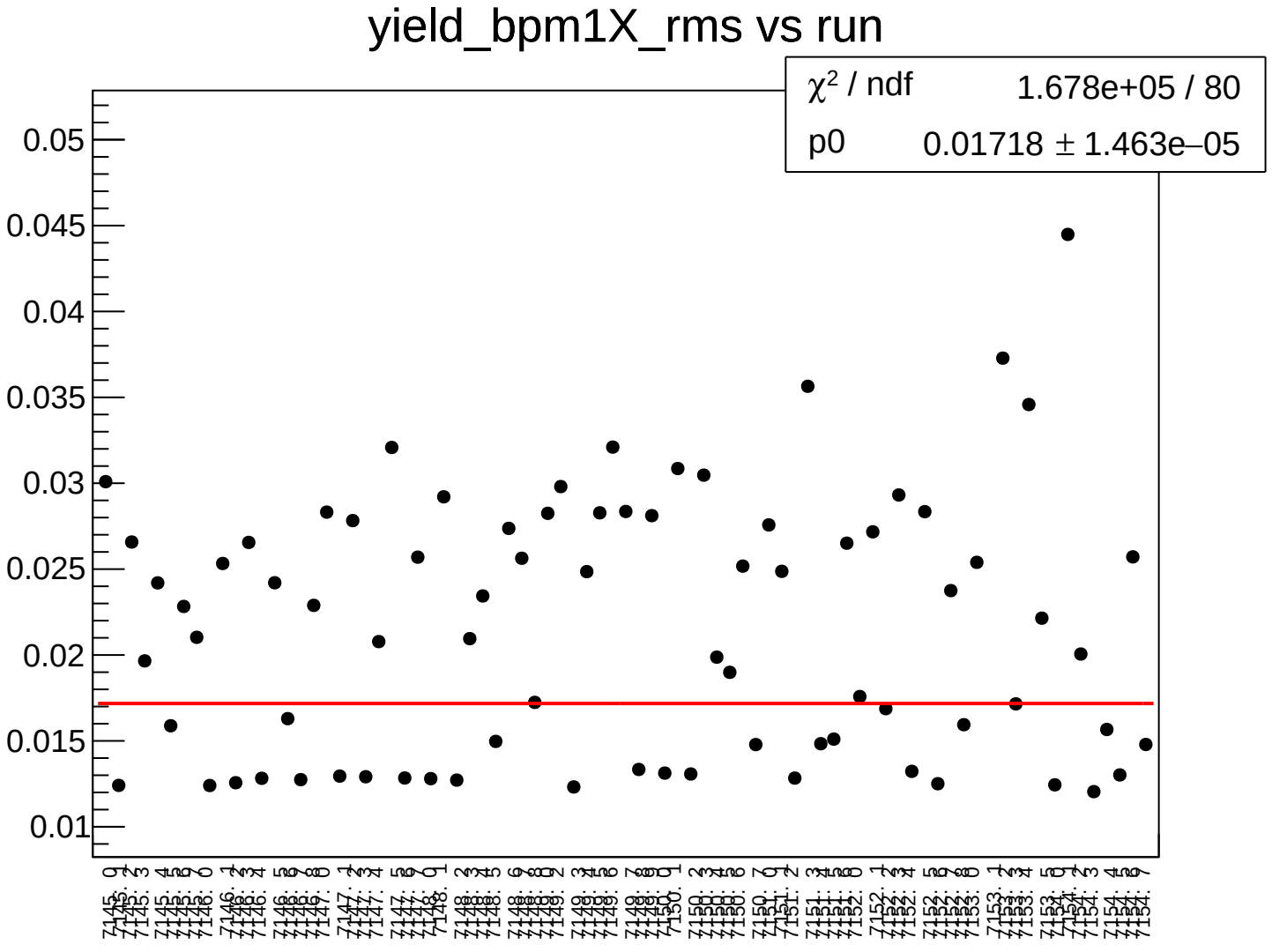

yield_bpm4ecY_mean vs run
χ² / ndf 8.951e+04 / 80
p0 0.07797 ± 1.216e−05
pull
Entries 81
Mean −231.6
Std Dev 270.7

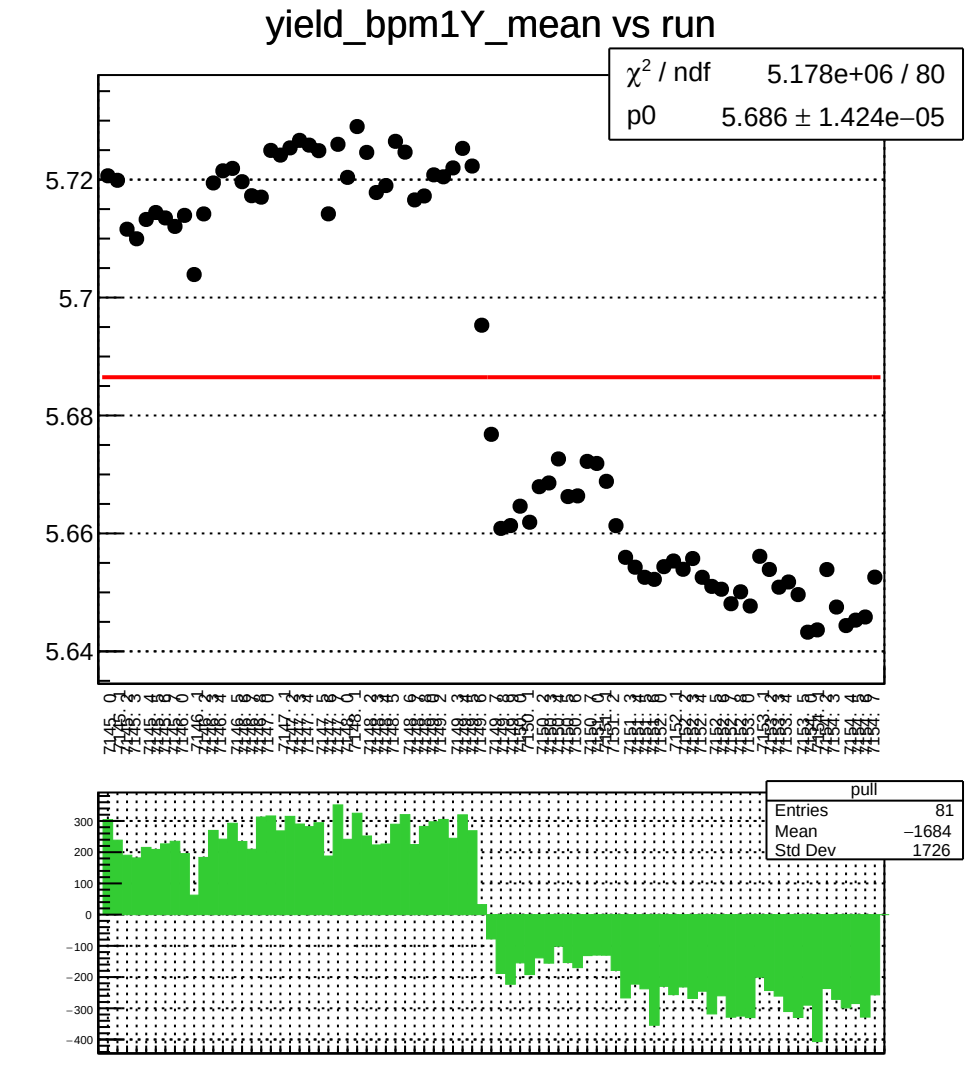

pull1D
Entries 81
Mean −0.4312
Std Dev 5.214

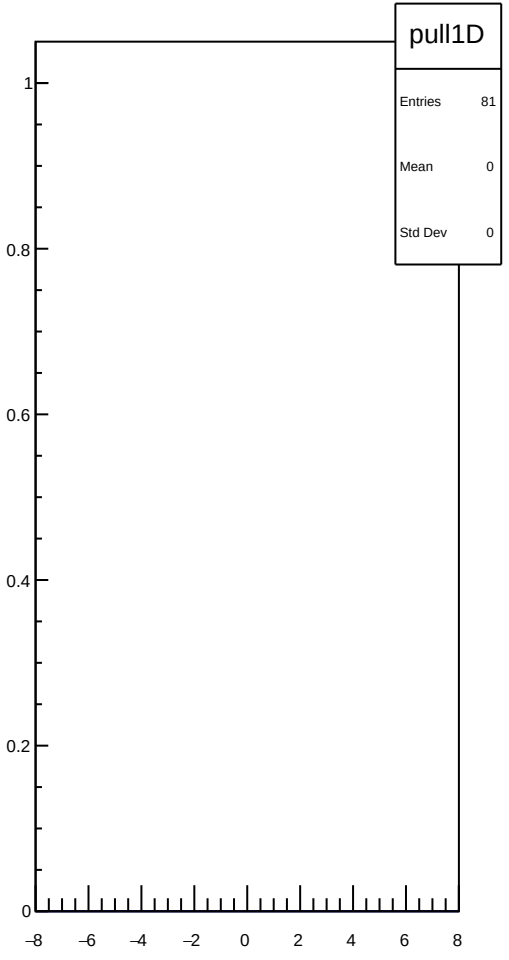

yield_bpm4ecY_rms vs run
χ² / ndf 2.61e+04 / 80
p0 0.0106 ± 8.601e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

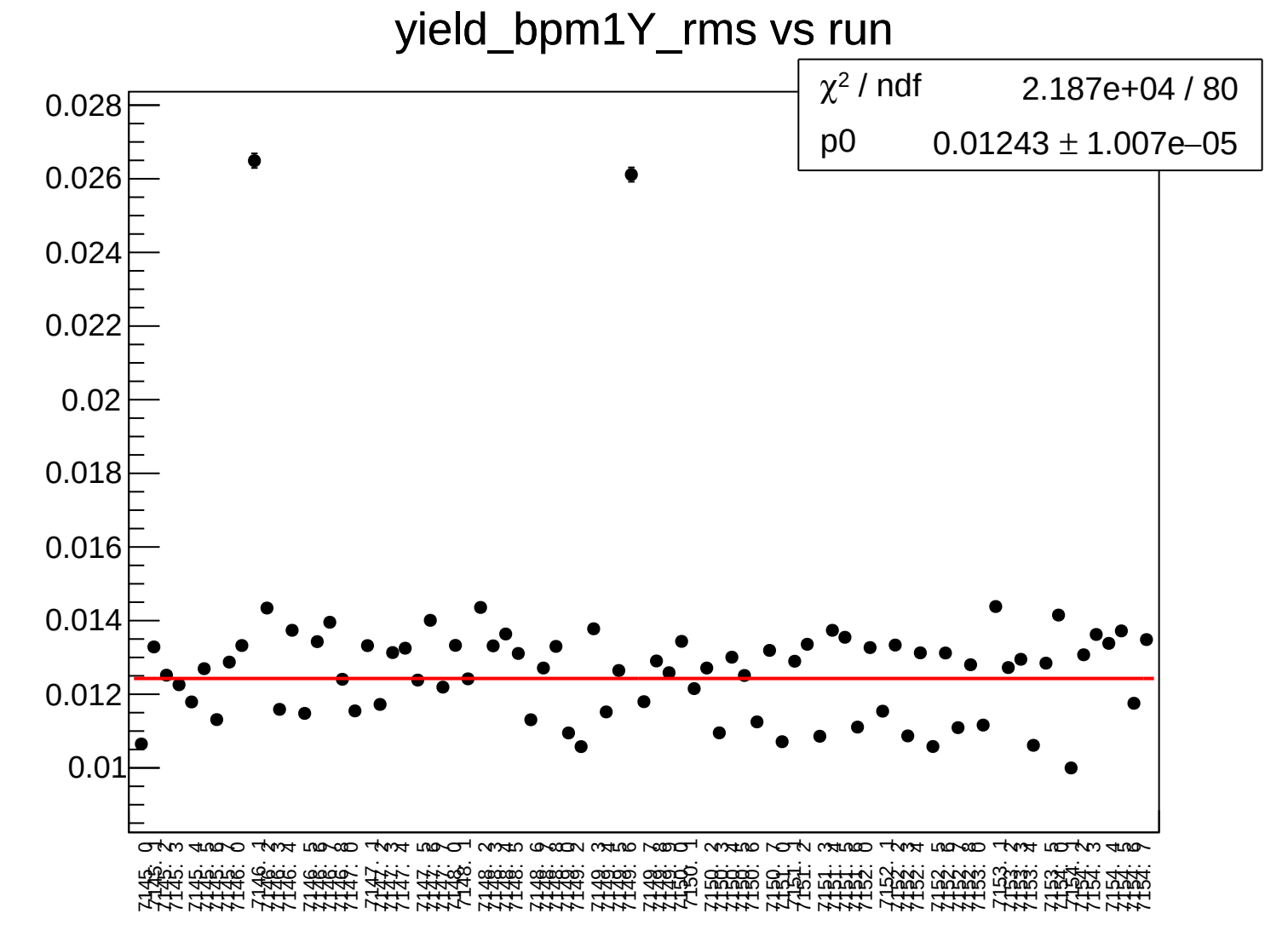

yield_bpm1X_mean vs run
χ² / ndf 4.859e+04 / 80
p0 2.461± 2.069e−05
2.48
2.47
2.46
2.45
2.44
2.43
2.42
pull
Entries 81
Mean 113.8
Std Dev 69.1
60
40
20
0
−20
−40
−60
−80

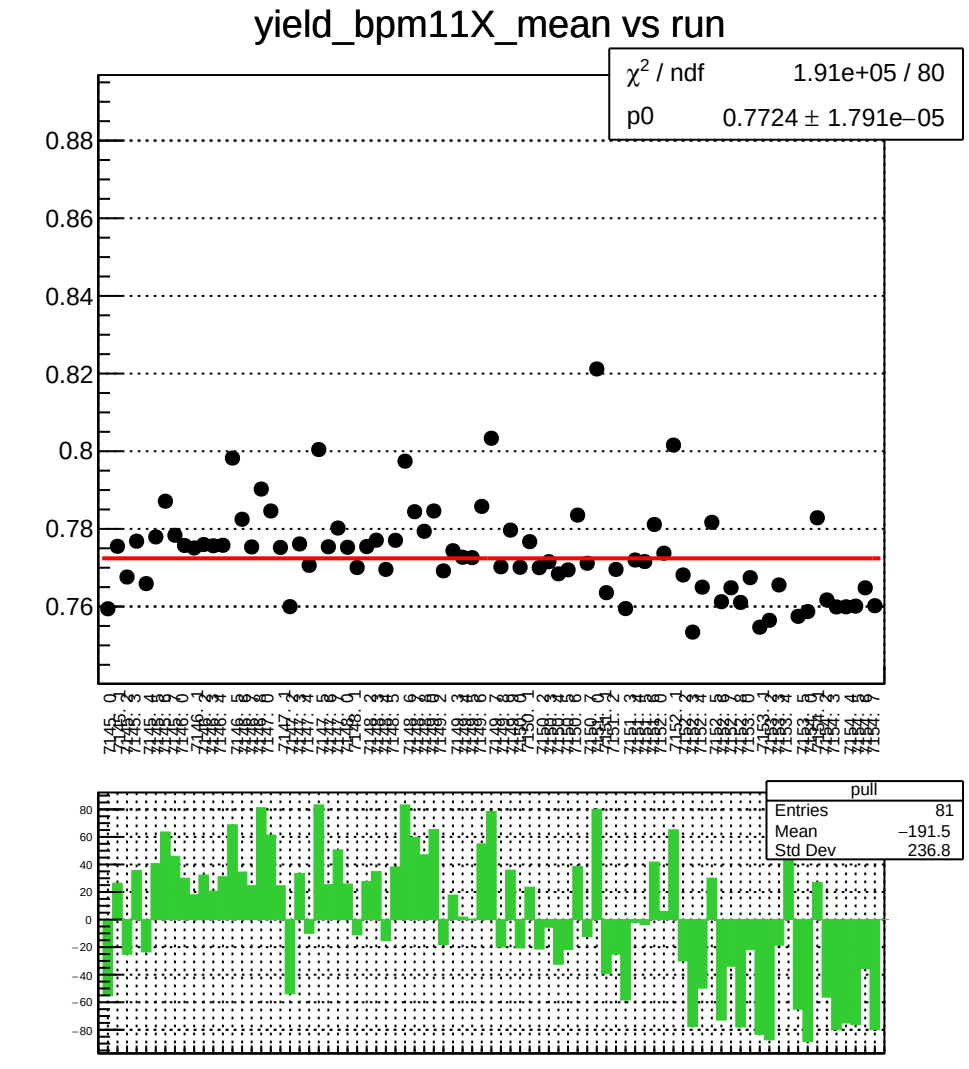

pull1D
Entries 81
Mean 0.7508
Std Dev 4.926
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

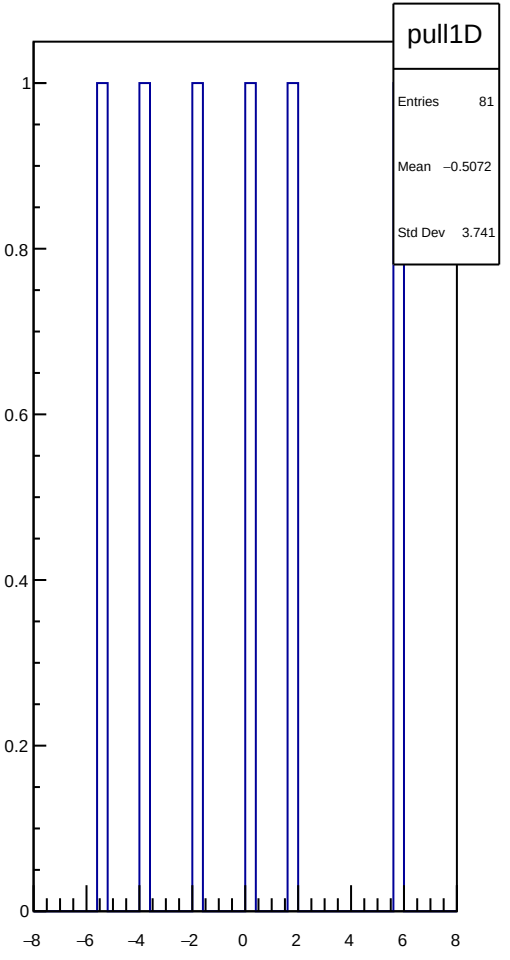

yield_bpm1X_rms vs run
χ² / ndf 1.678e+05 / 80
p0 0.01718 ± 1.463e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

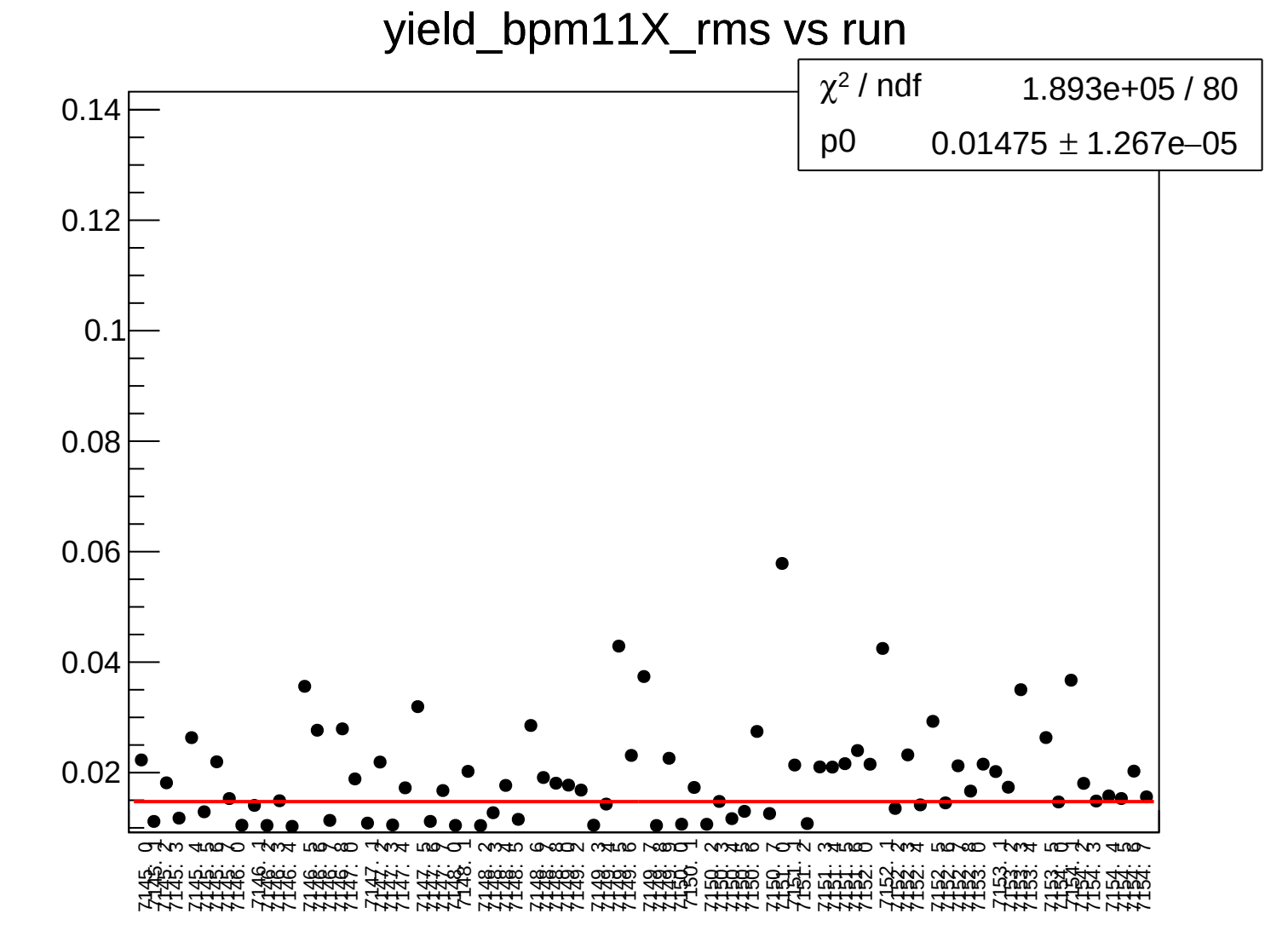

yield_bpm1Y_mean vs run
χ² / ndf 5.178e+06 / 80
p0 5.686 ± 1.424e−05
5.72
5.7
5.68
5.66
5.64
pull
Entries 81
Mean −1684
Std Dev 1726
300
200
100
0
−100
−200
−300
−400

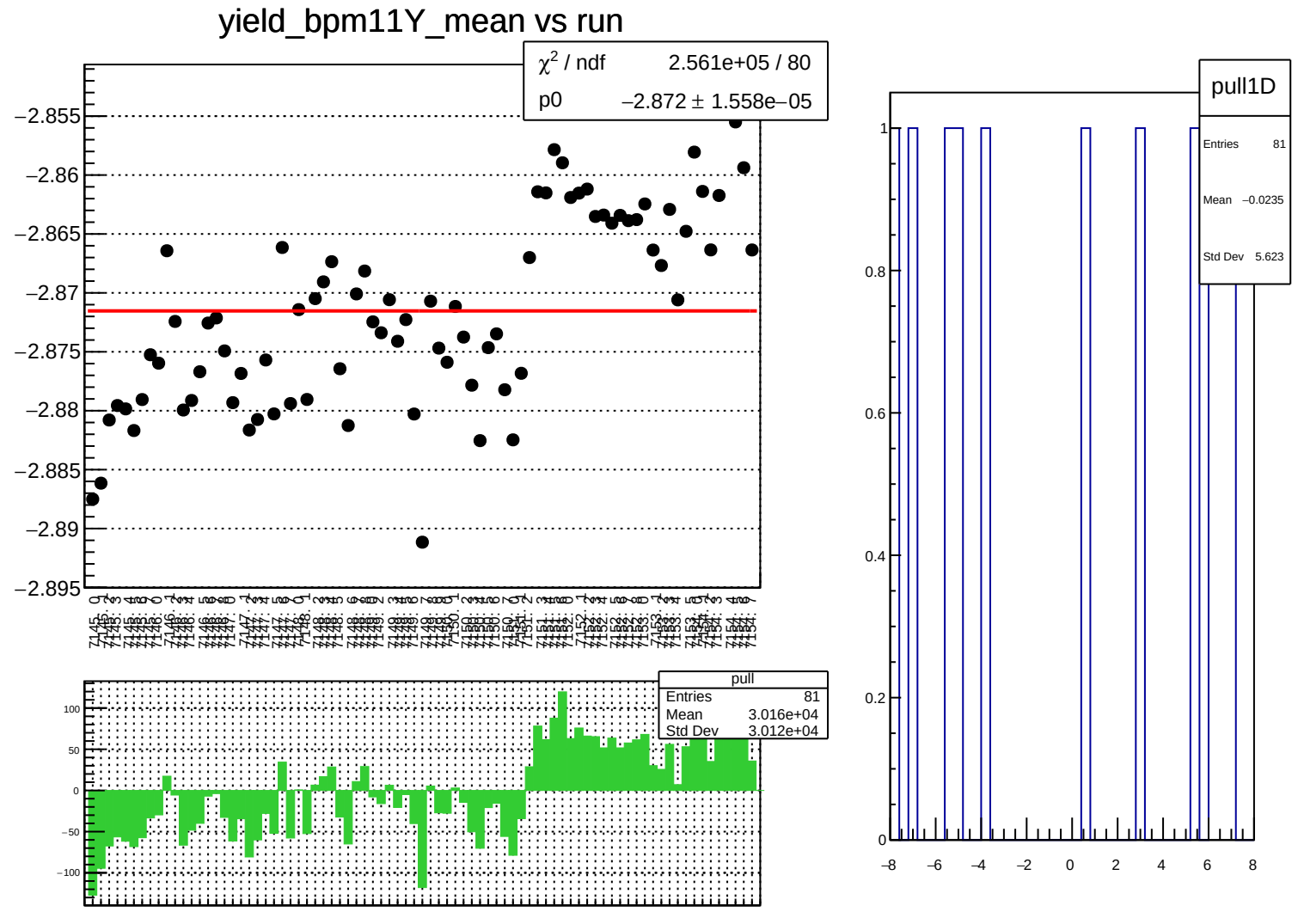

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

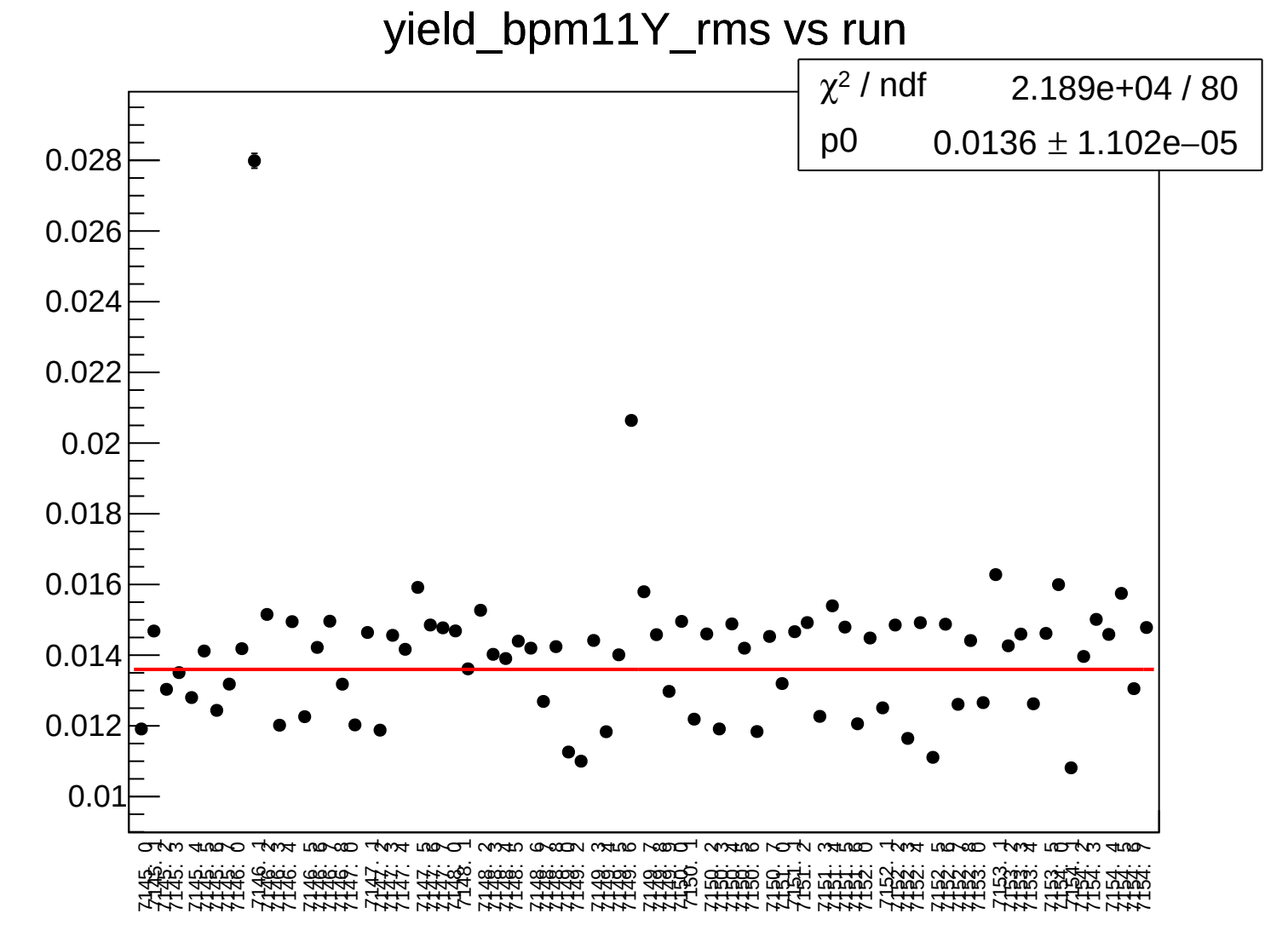

yield_bpm1Y_rms vs run
χ² / ndf 2.187e+04 / 80
p0 0.01243 ± 1.007e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

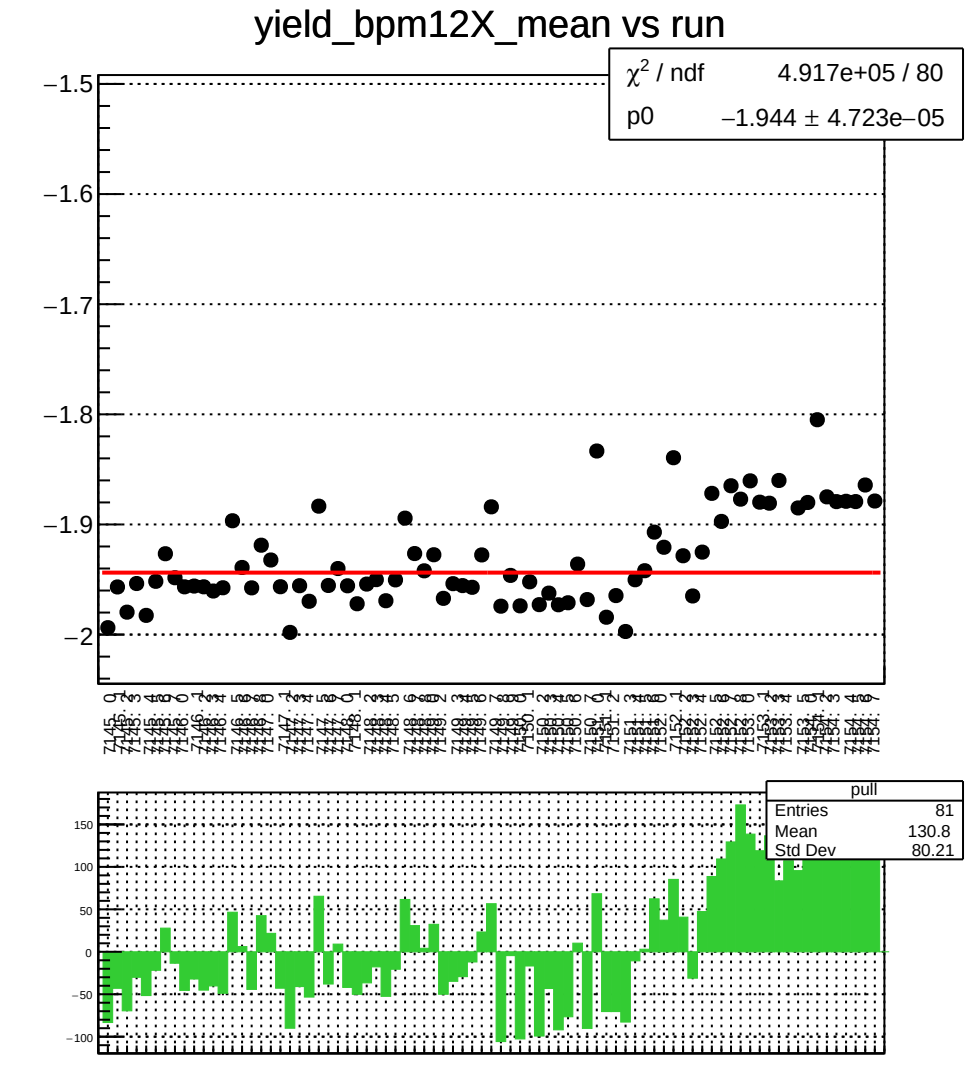

yield_bpm11X_mean vs run
χ² / ndf 1.91e+05 / 80
p0 0.7724 ± 1.791e−05
0.88
0.86
0.84
0.82
0.8
0.78
0.76
pull
Entries 81
Mean −191.5
Std Dev 236.8
80
60
40
20
0
−20
−40
−60
−80

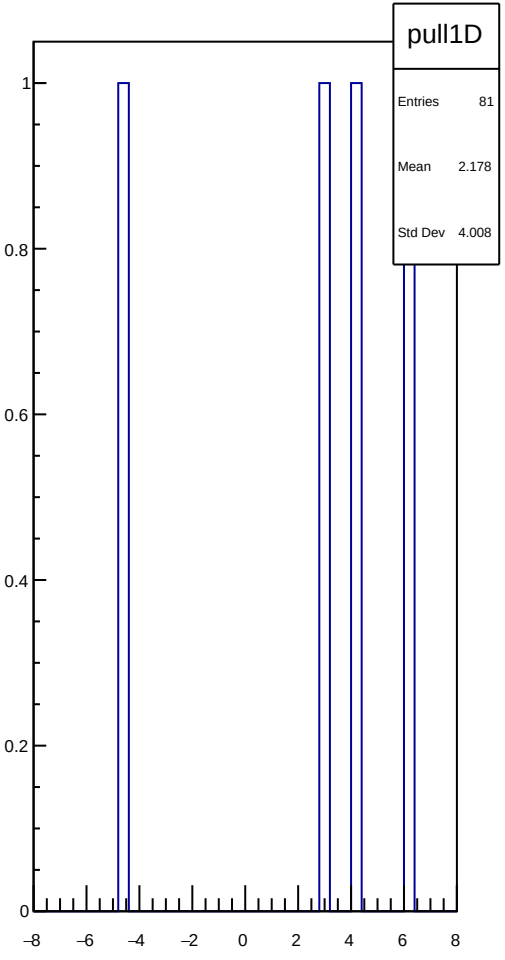

pull1D
Entries 81
Mean −0.5072
Std Dev 3.741
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

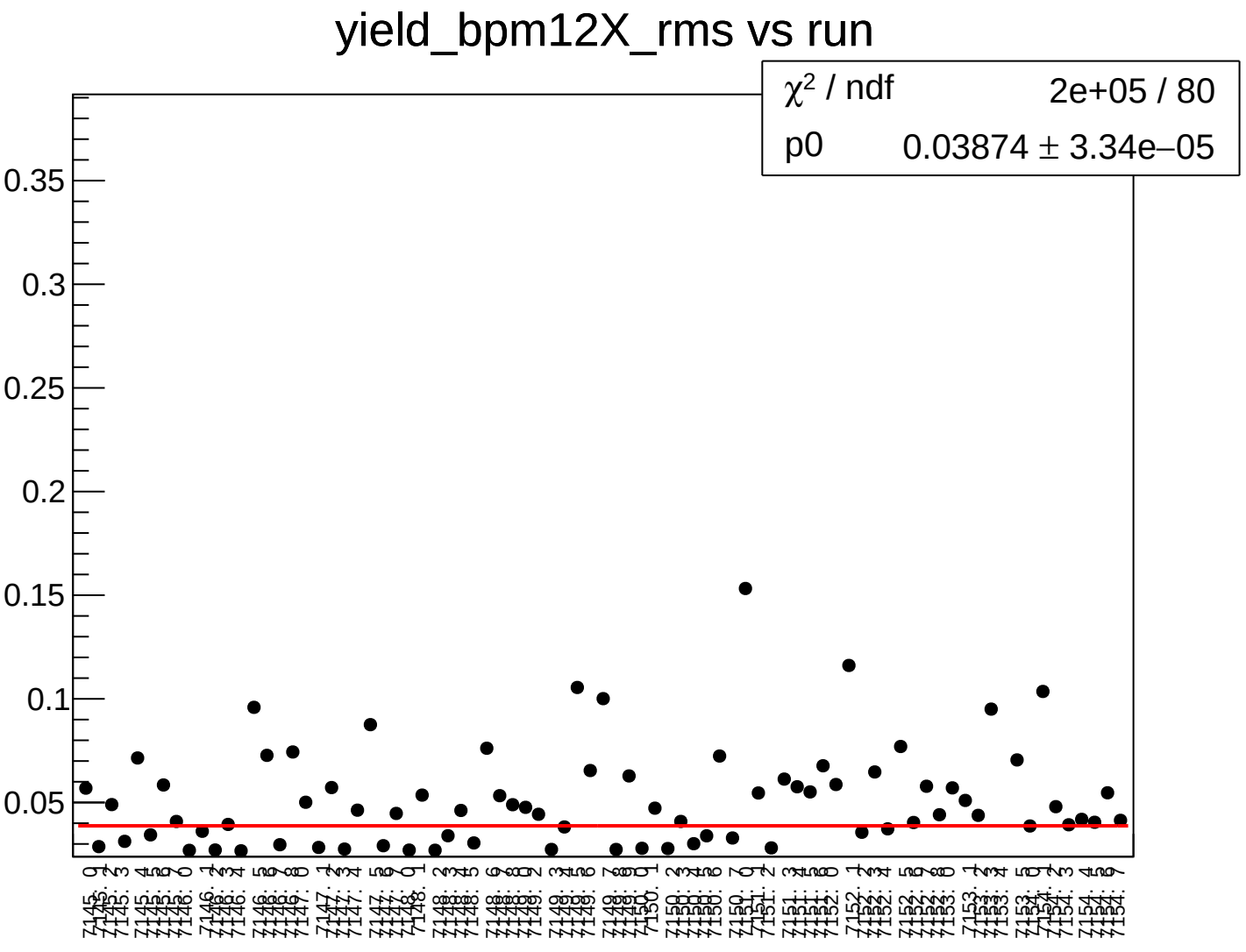

yield_bpm11X_rms vs run
χ² / ndf 1.893e+05 / 80
p0 0.01475 ± 1.267e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

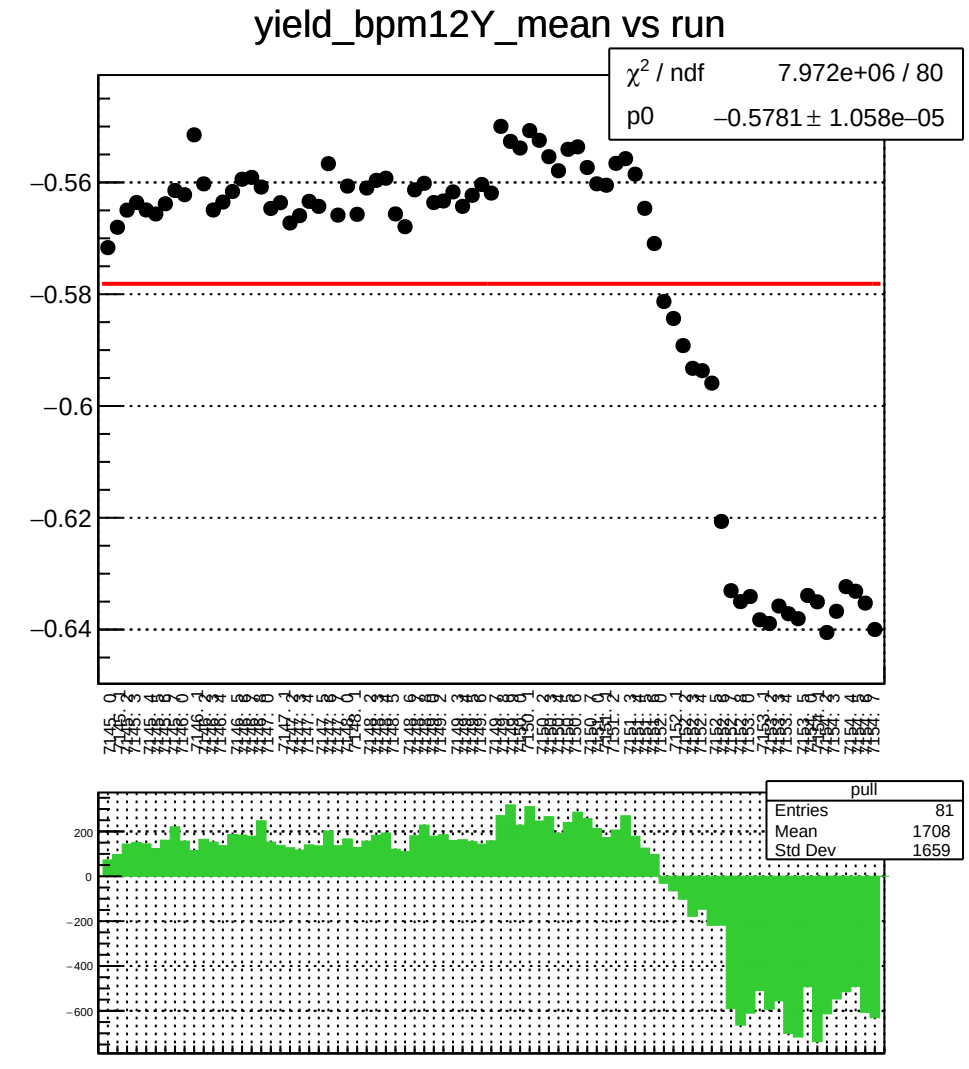

yield_bpm11Y_mean vs run
χ² / ndf 2.561e+05 / 80
p0 −2.872 ± 1.558e−05
−2.855
−2.86
−2.865
−2.87
−2.875
−2.88
−2.885
−2.89
−2.895
pull
Entries 81
Mean 3.016e+04
Std Dev 3.012e+04
100
50
0
−50
−100
pull1D
Entries 81
Mean −0.0235
Std Dev 5.623
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

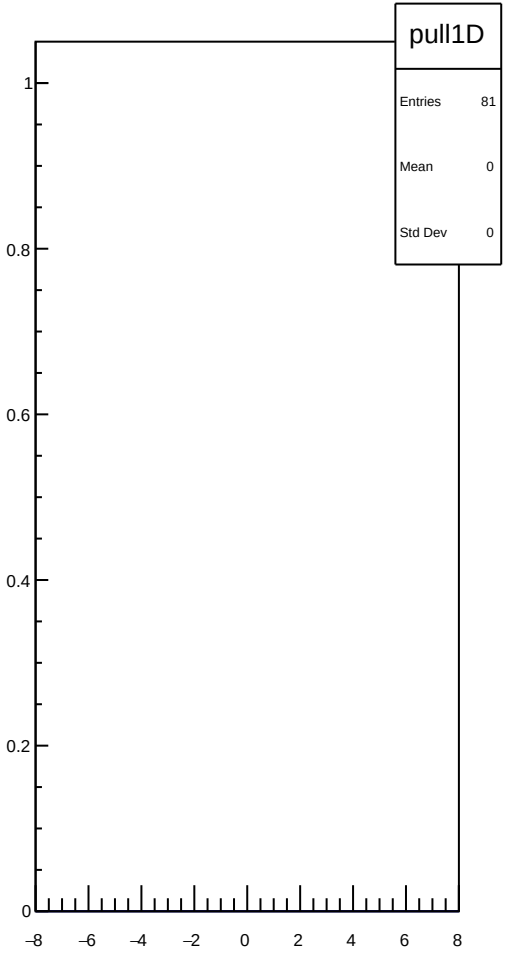

yield_bpm11Y_rms vs run
χ^2 / ndf 2.189e+04 / 80
p0 0.0136 ± 1.102e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

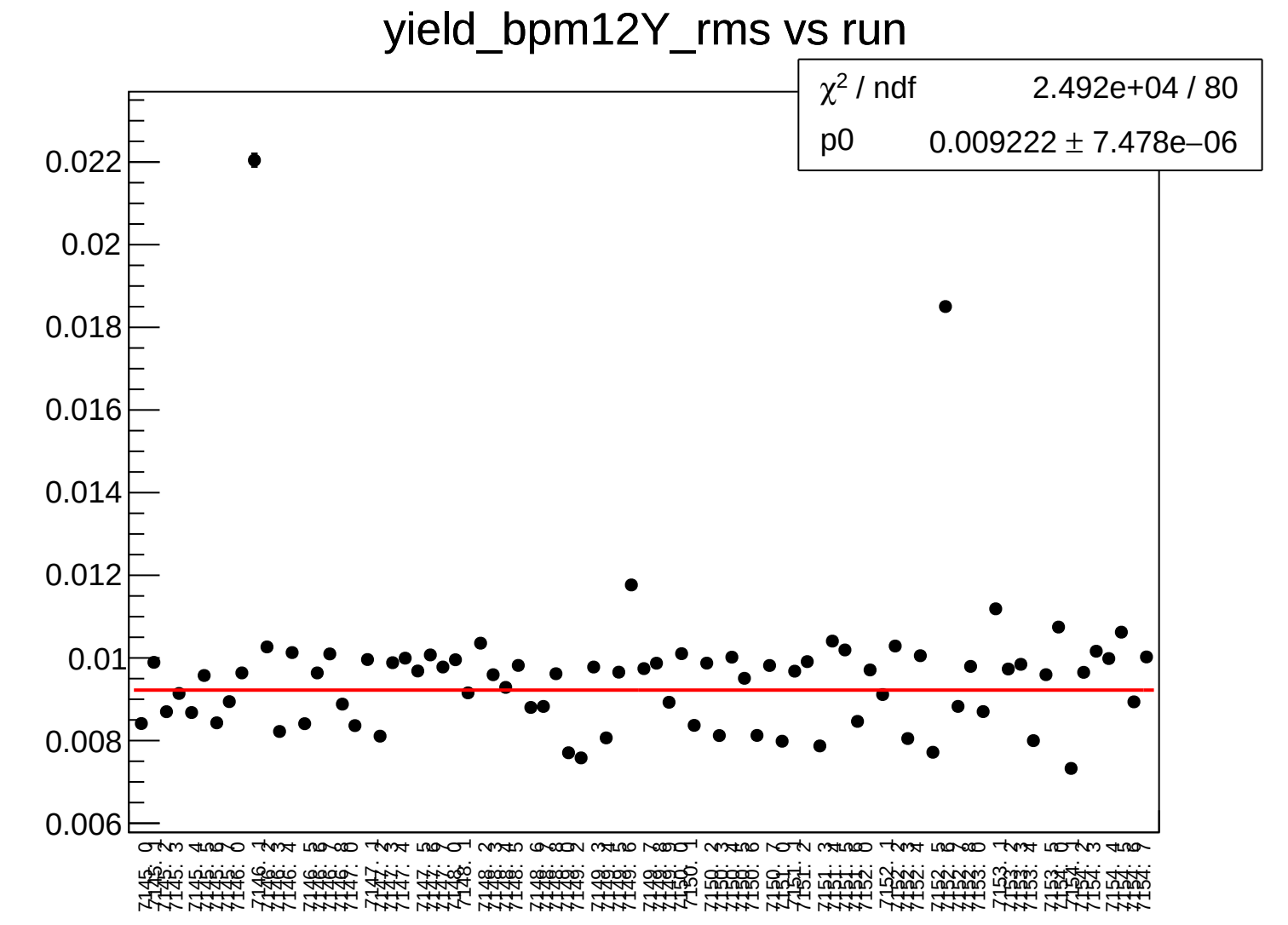

yield_bpm12X_mean vs run
χ² / ndf 4.917e+05 / 80
p0 −1.944 ± 4.723e−05
−1.5
−1.6
−1.7
−1.8
−1.9
−2
pull
Entries 81
Mean 130.8
Std Dev 80.21
150
100
50
0
−50
−100

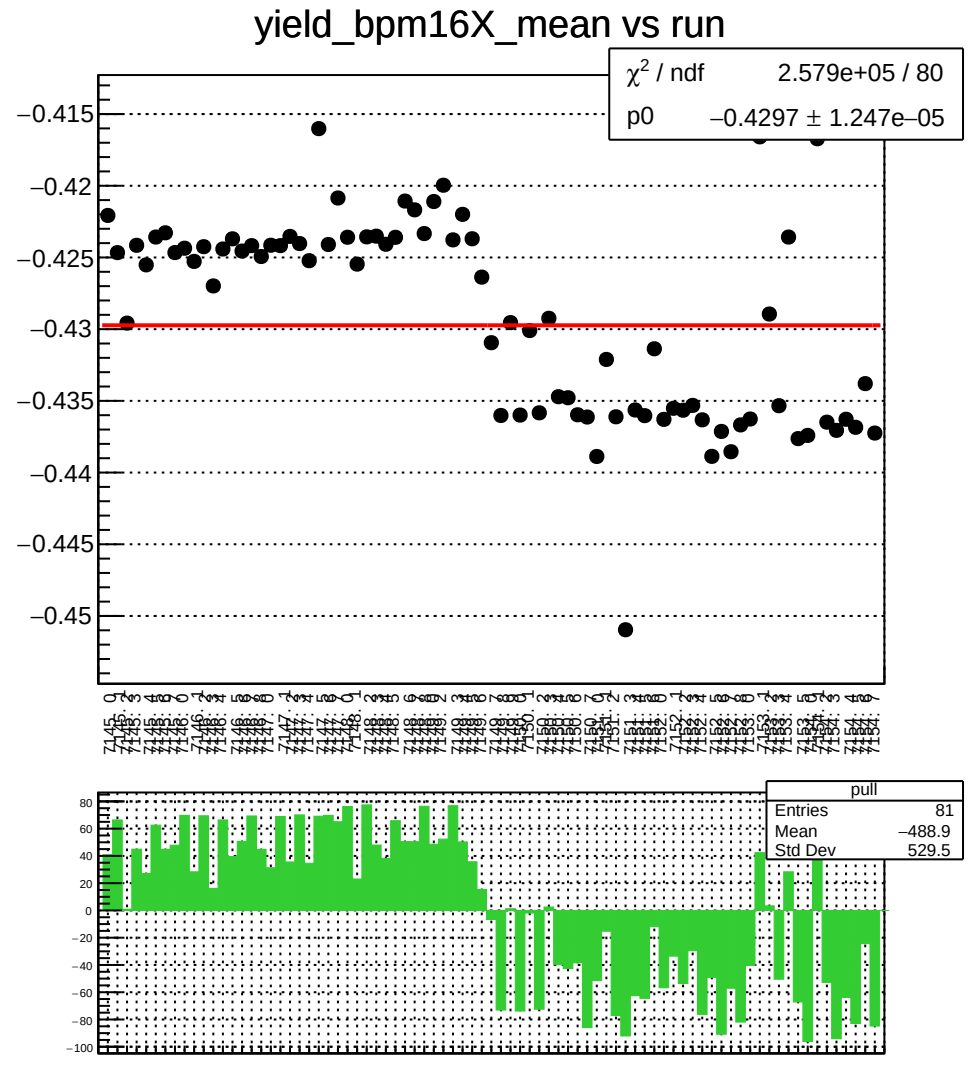

pull1D
Entries 81
Mean 2.178
Std Dev 4.008
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

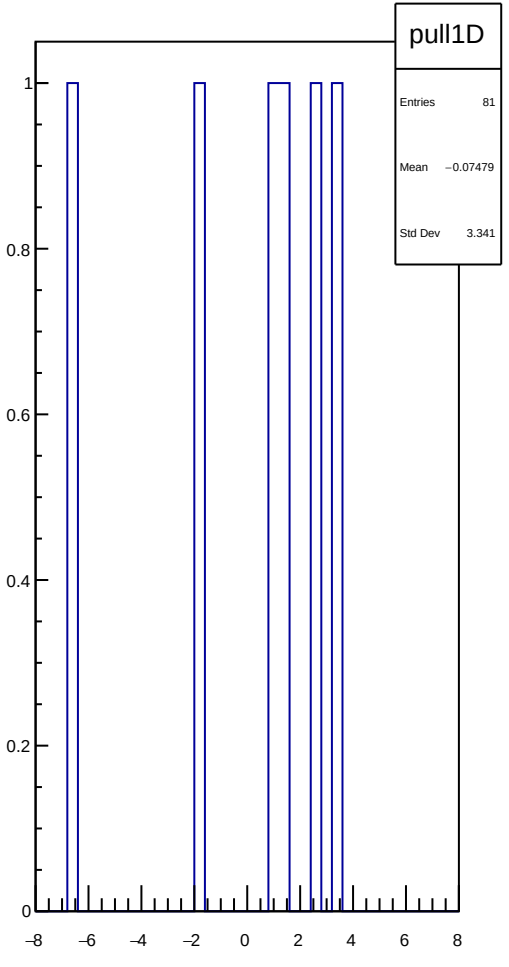

yield_bpm12X_rms vs run
χ² / ndf 2e+05 / 80
p0 0.03874 ± 3.34e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

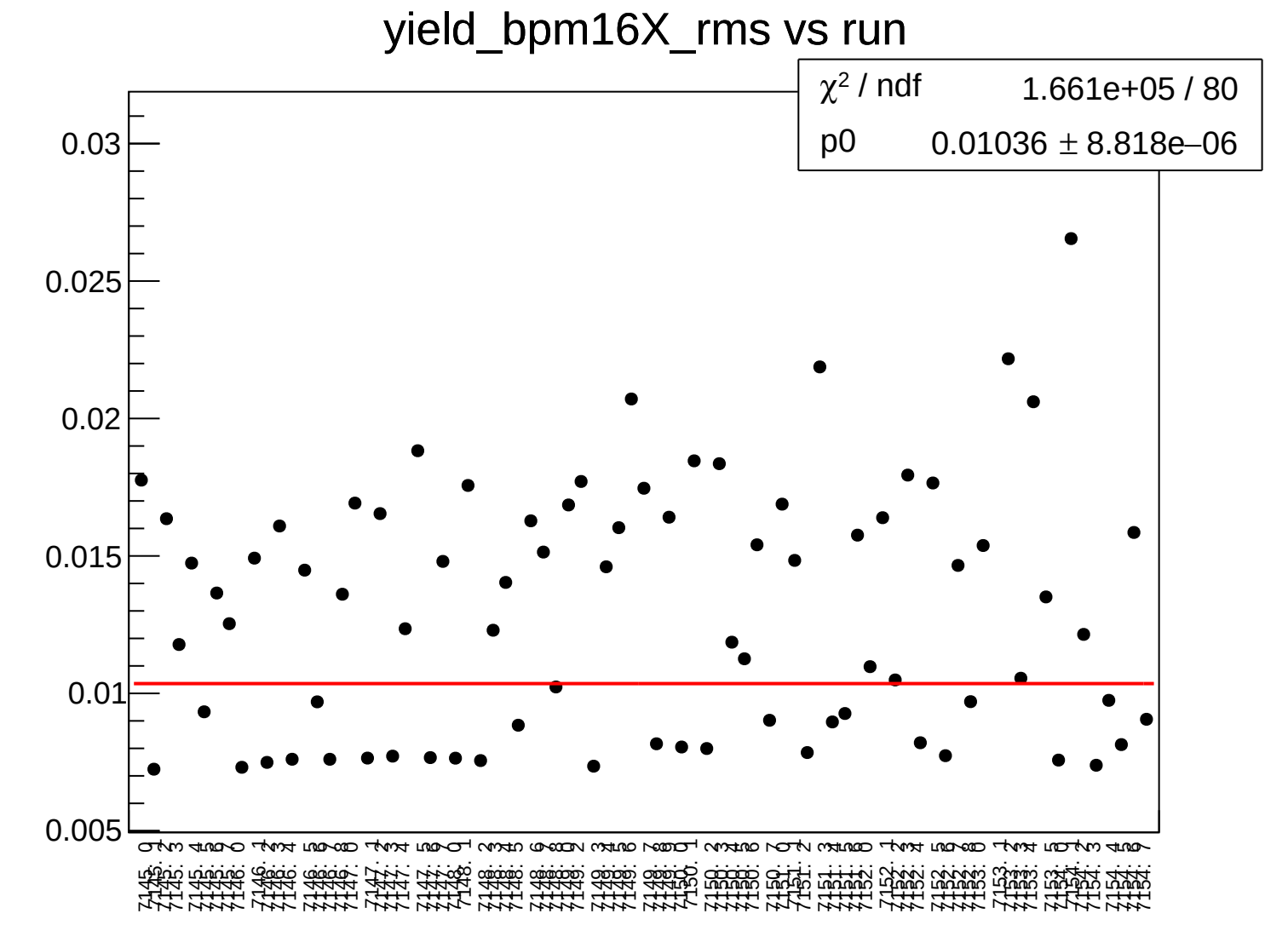

yield_bpm12Y_mean vs run
χ² / ndf 7.972e+06 / 80
p0 −0.5781 ± 1.058e−05
−0.56
−0.58
−0.6
−0.62
−0.64
pull
Entries 81
Mean 1708
Std Dev 1659
200
0
−200
−400
−600

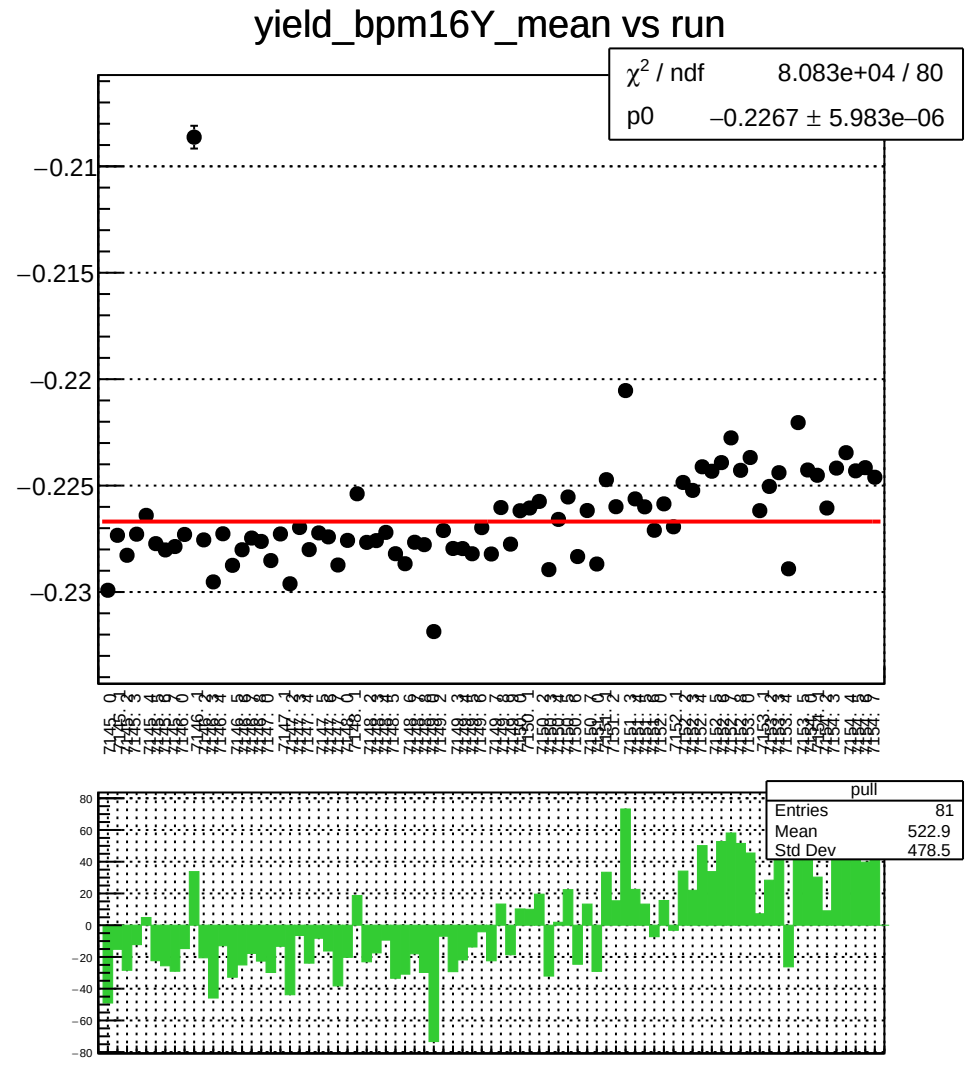

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

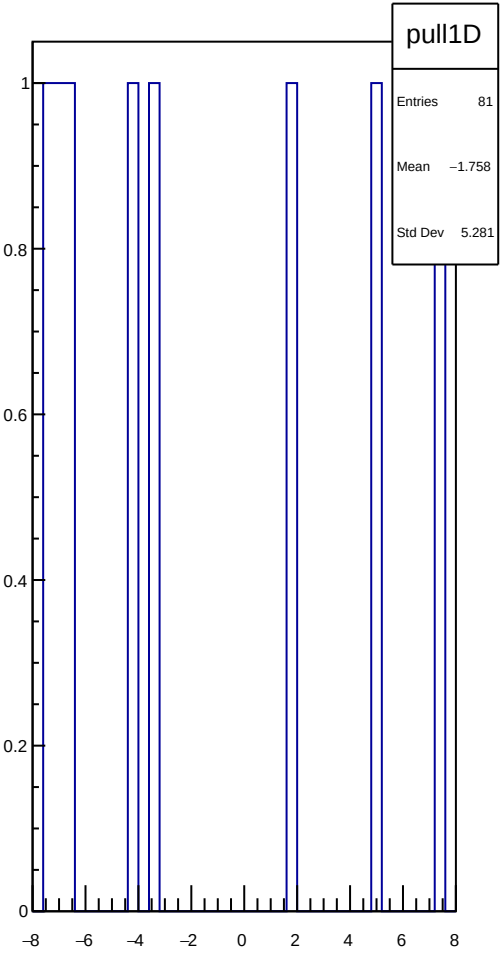

yield_bpm12Y_rms vs run
χ² / ndf 2.492e+04 / 80
p0 0.009222 ± 7.478e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

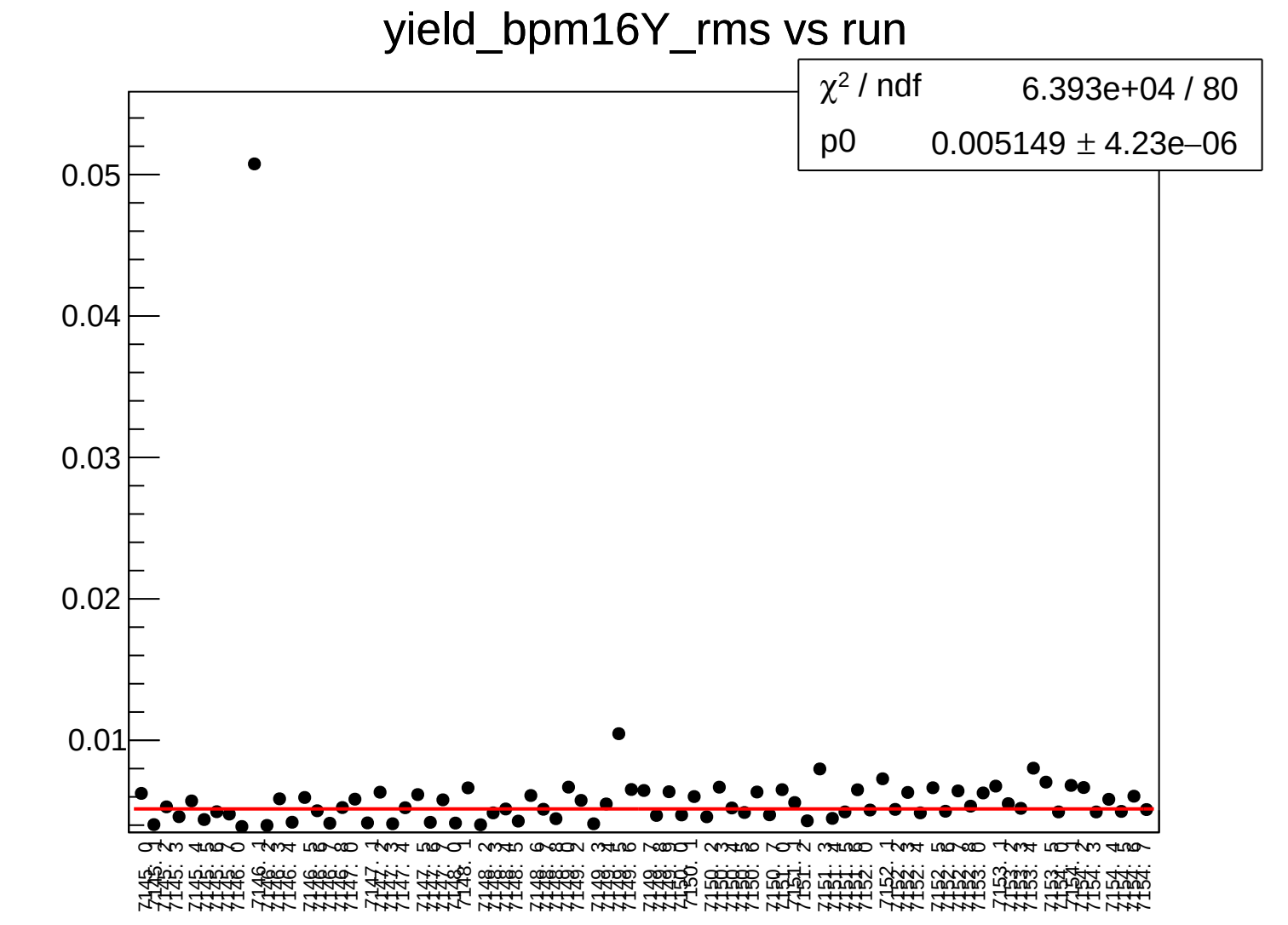

yield_bpm16X_mean vs run
χ² / ndf 2.579e+05 / 80
p0 −0.4297 ± 1.247e−05
−0.415
−0.42
−0.425
−0.43
−0.435
−0.44
−0.445
−0.45
pull
Entries 81
Mean −488.9
Std Dev 529.5
80
60
40
20
0
−20
−40
−60
−80
−100

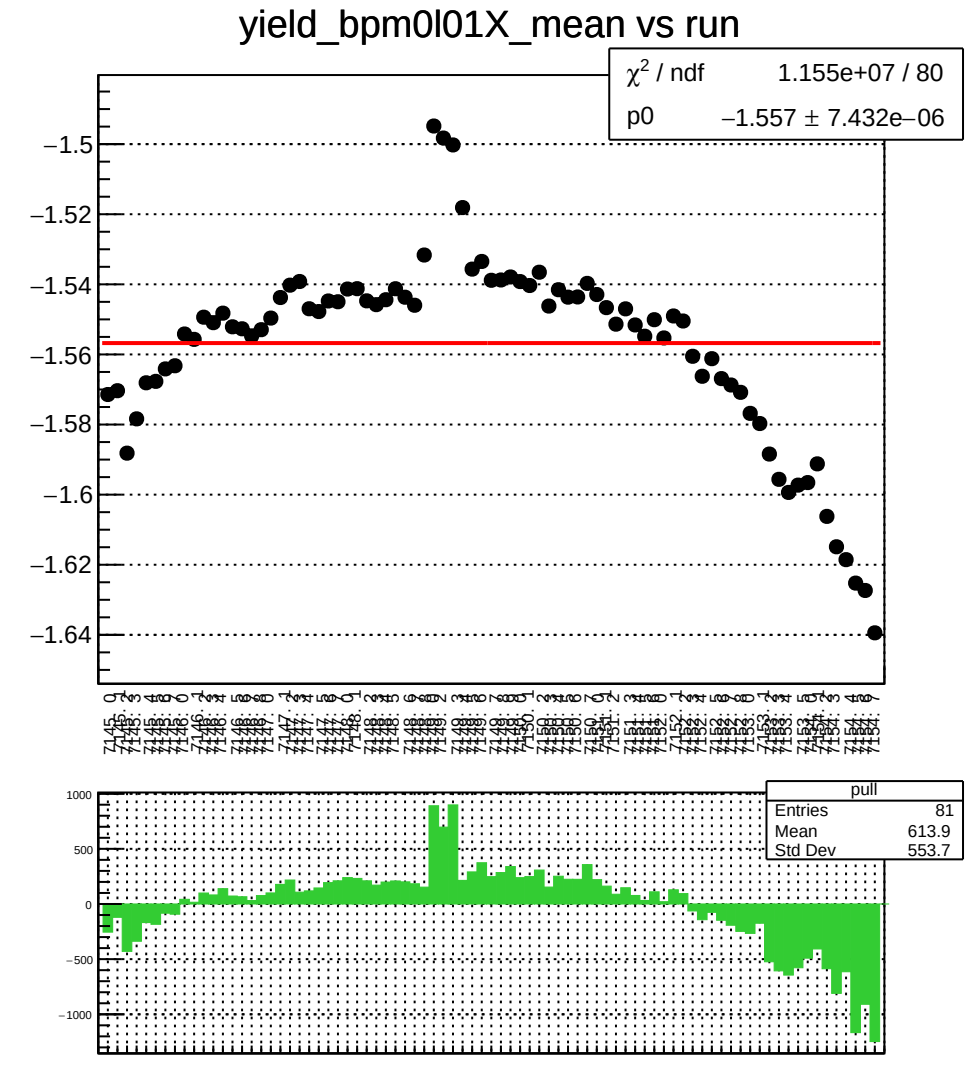

pull1D
Entries 81
Mean −0.07479
Std Dev 3.341
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

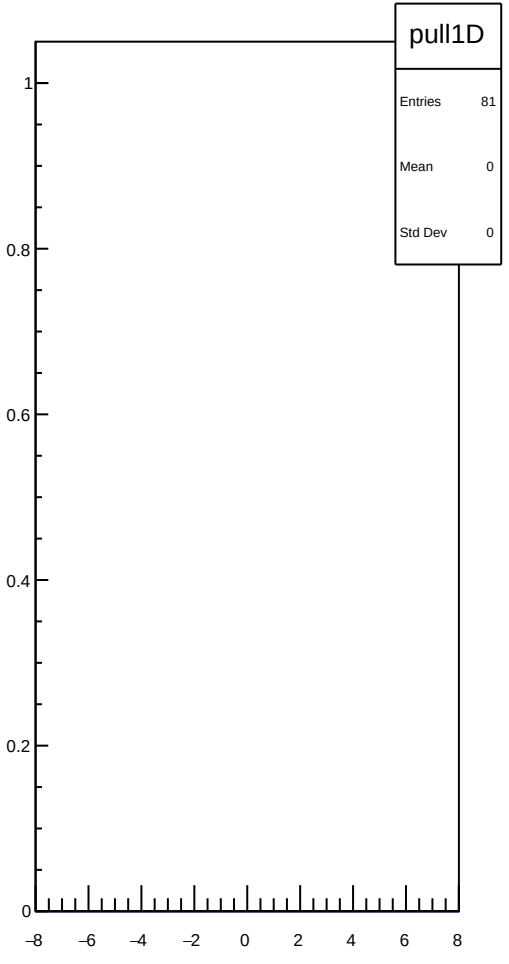

yield_bpm16X_rms vs run
χ² / ndf 1.661e+05 / 80
p0 0.01036 ± 8.818e–06
0.03
0.025
0.02
0.015
0.01
0.005

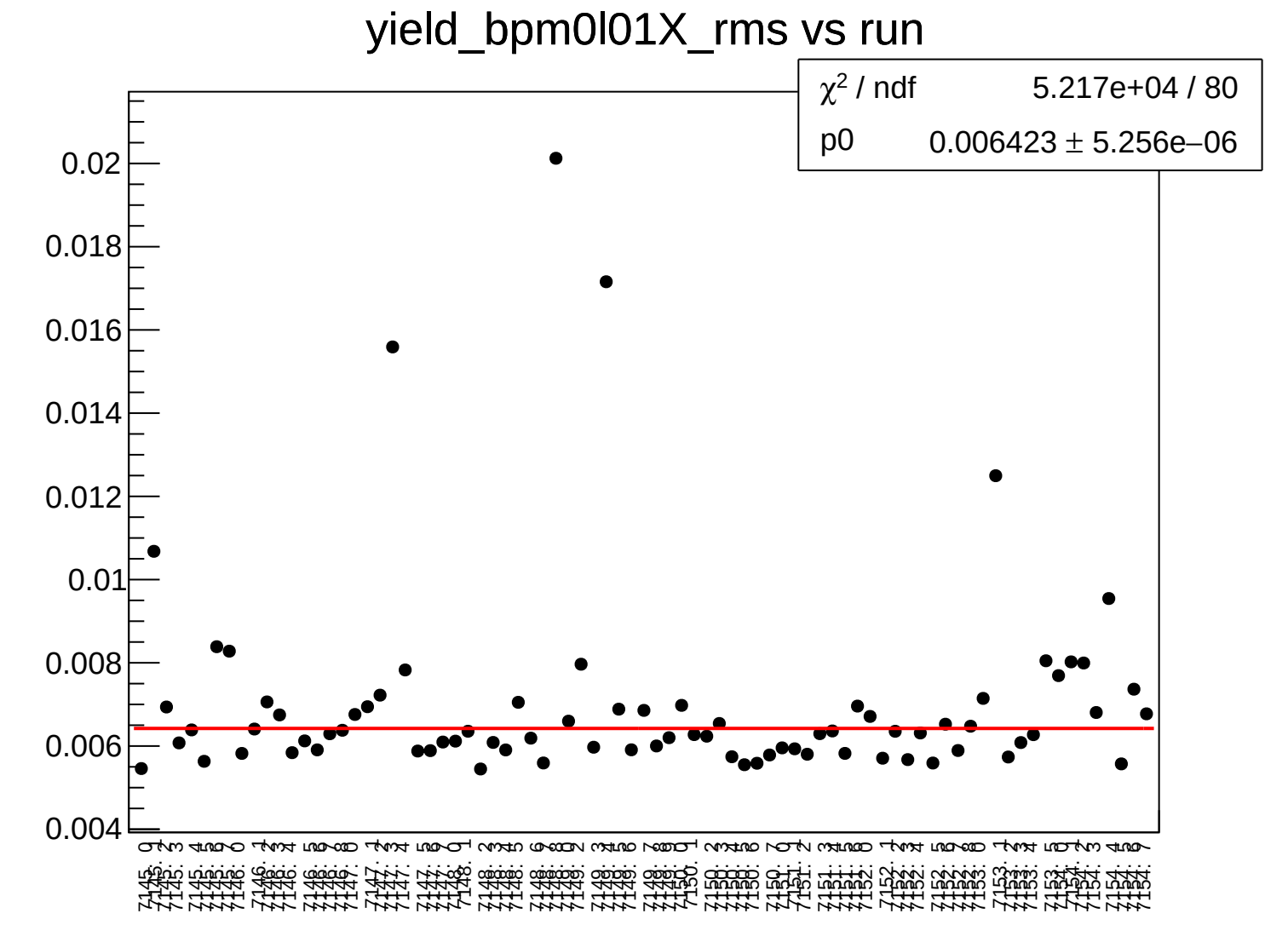

yield_bpm16Y_mean vs run
χ² / ndf 8.083e+04 / 80
p0 −0.2267 ± 5.983e−06
−0.21
−0.215
−0.22
−0.225
−0.23
pull
Entries 81
Mean 522.9
Std Dev 478.5
80
60
40
20
0
−20
−40
−60
−80

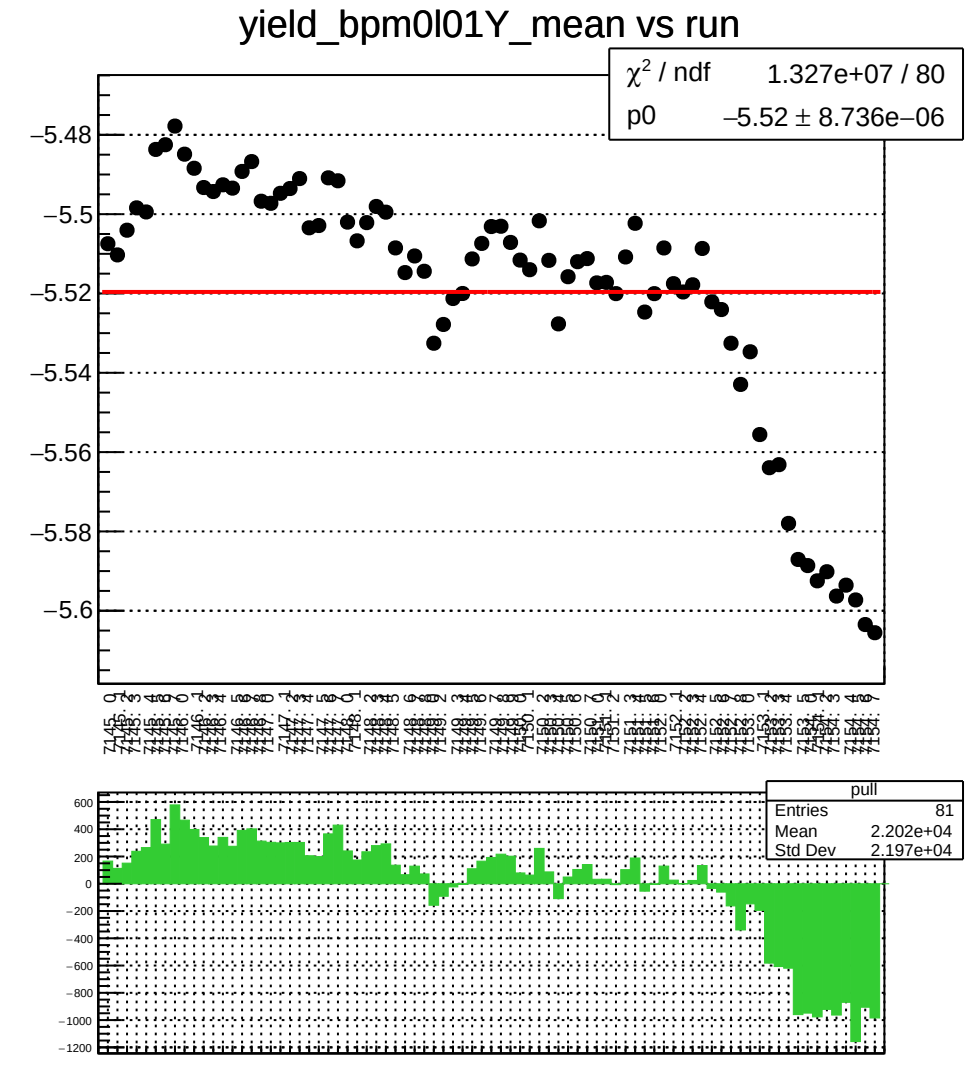

pull1D
Entries 81
Mean −1.758
Std Dev 5.281
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

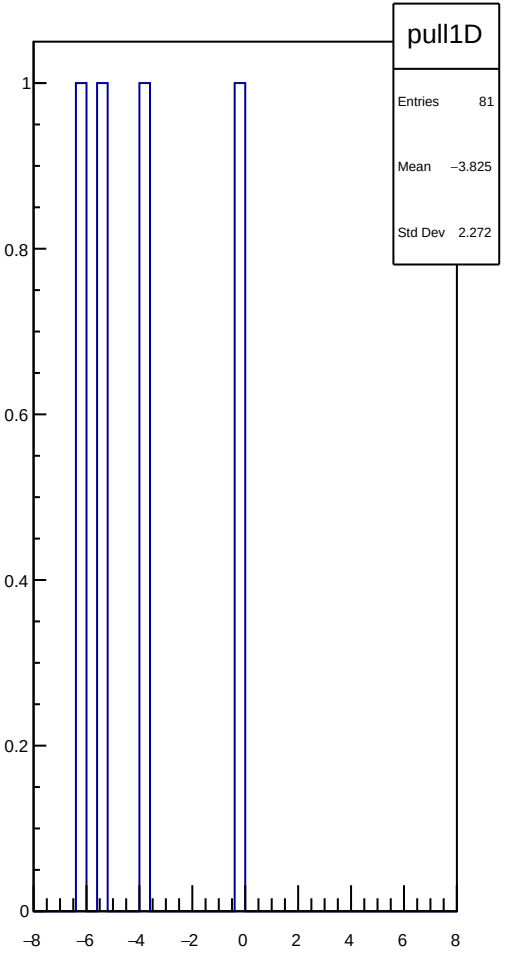

yield_bpm16Y_rms vs run
χ² / ndf 6.393e+04 / 80
p0 0.005149 ± 4.23e−06
0.05
0.04
0.03
0.02
0.01

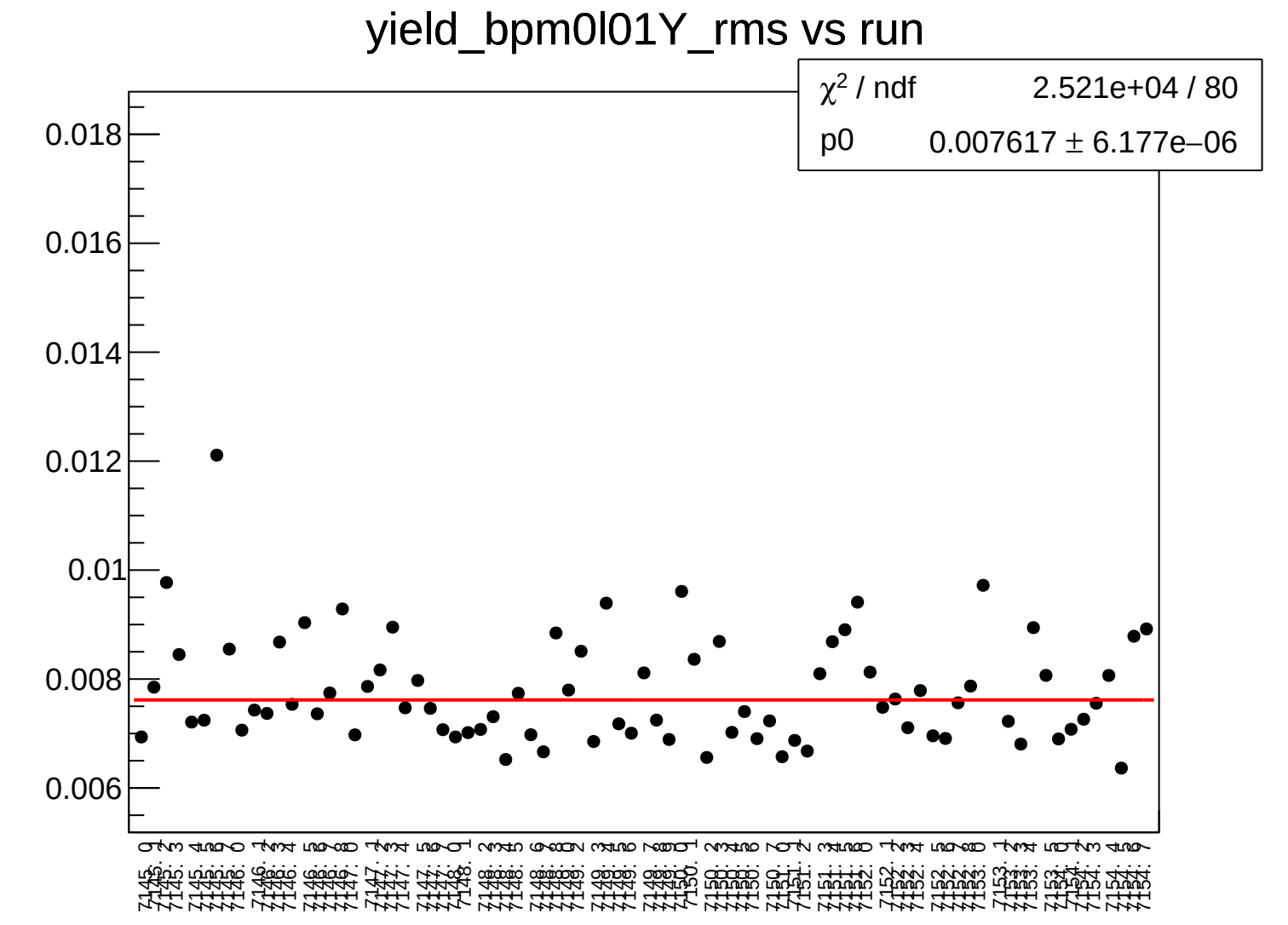

yield_bpm0l01X_mean vs run
χ² / ndf 1.155e+07 / 80
p0 −1.557 ± 7.432e−06
−1.5
−1.52
−1.54
−1.56
−1.58
−1.6
−1.62
−1.64
pull
Entries 81
Mean 613.9
Std Dev 553.7
1000
500
0
−500
−1000

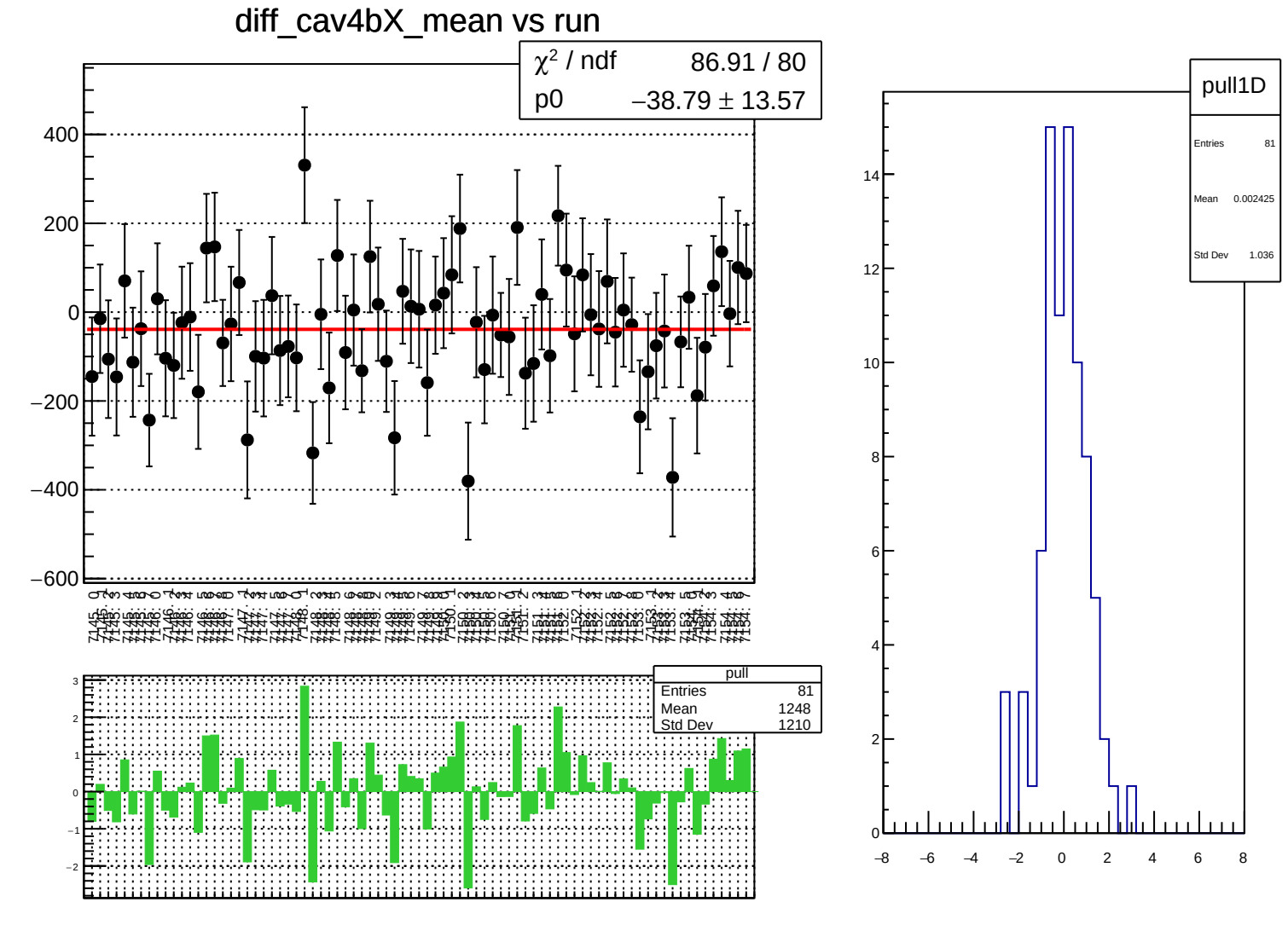

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

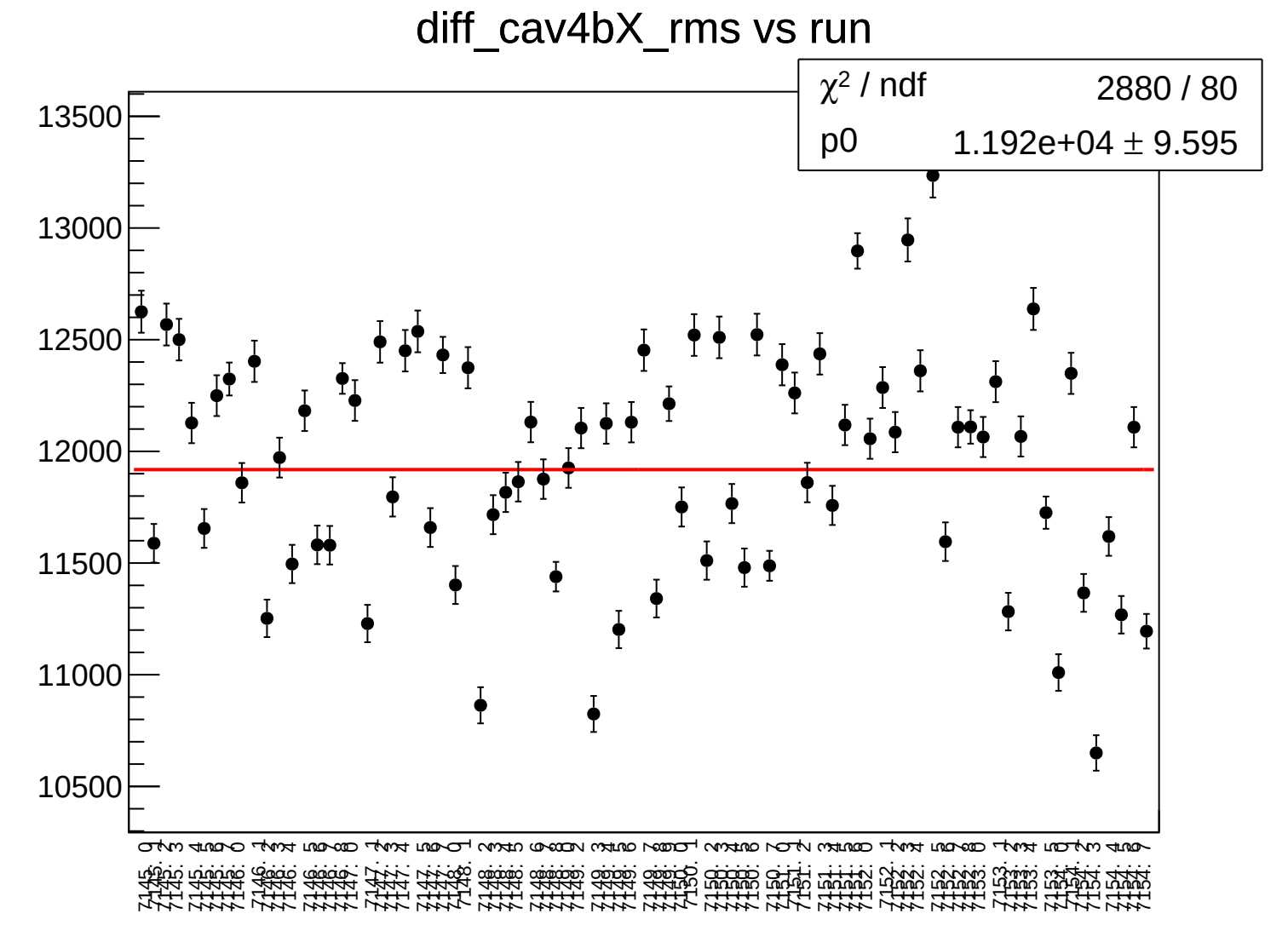

yield_bpm0l01X_rms vs run
χ^2 / ndf 5.217e+04 / 80
p0 0.006423 ± 5.256e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

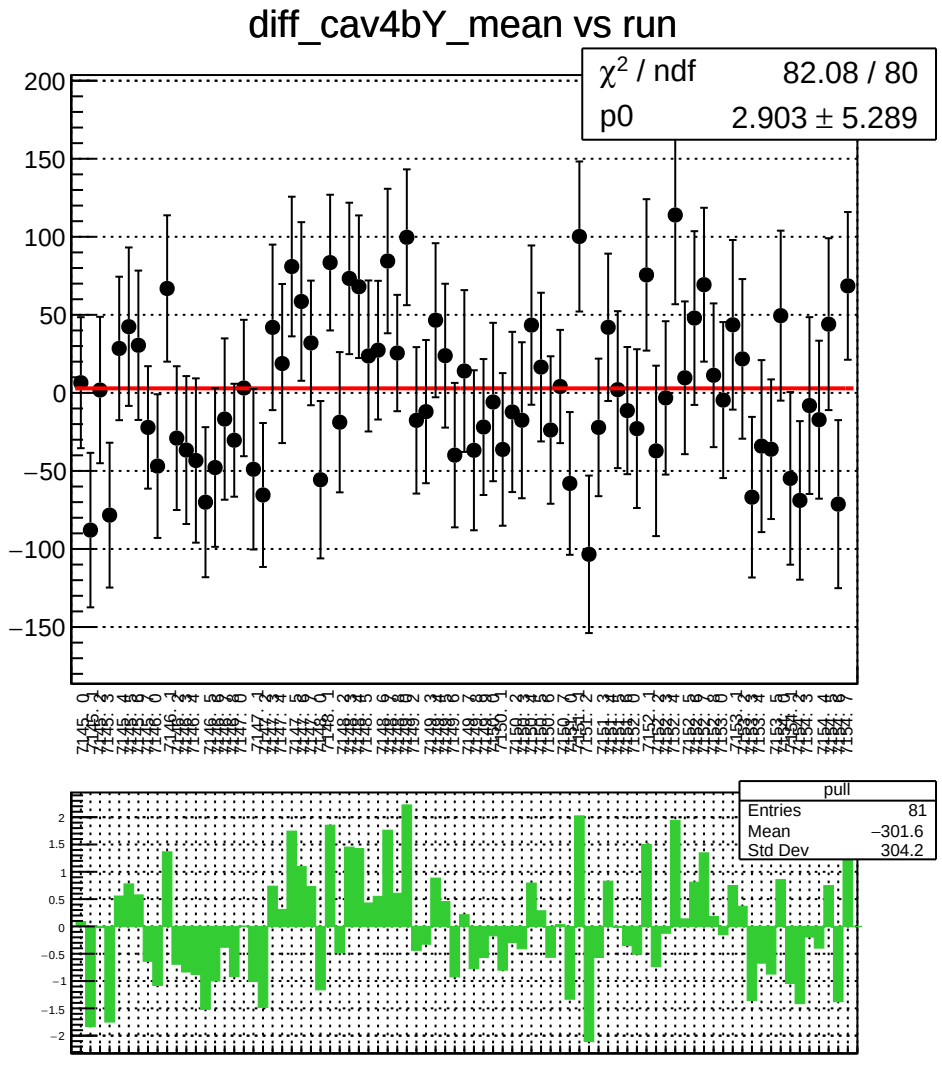

yield_bpm0l01Y_mean vs run
χ² / ndf 1.327e+07 / 80
p0 −5.52 ± 8.736e−06
−5.48
−5.5
−5.52
−5.54
−5.56
−5.58
−5.6
pull
Entries 81
Mean 2.202e+04
Std Dev 2.197e+04
600
400
200
0
−200
−400
−600
−800
−1000
−1200

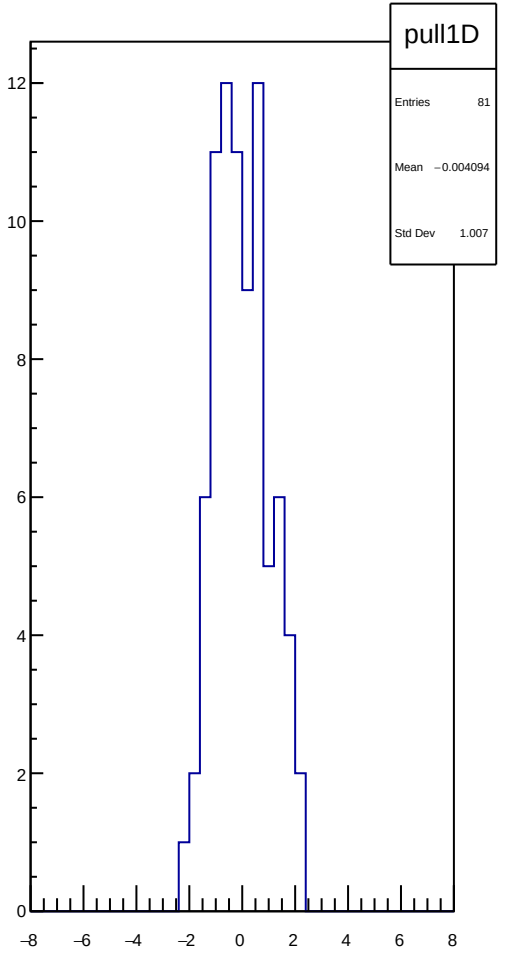

pull1D
Entries 81
Mean −3.825
Std Dev 2.272
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

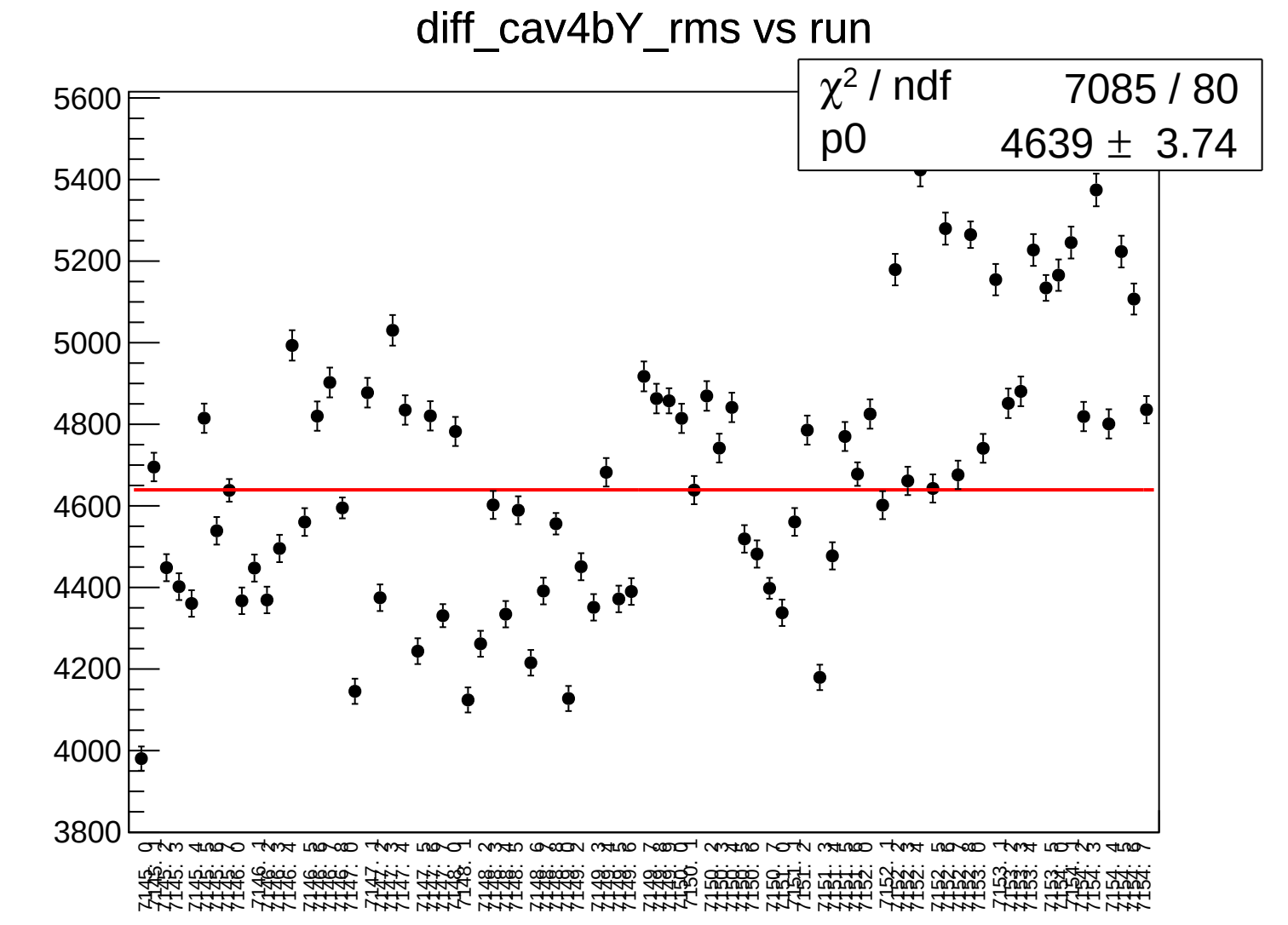

yield_bpm0l01Y_rms vs run
χ² / ndf 2.521e+04 / 80
p0 0.007617 ± 6.177e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

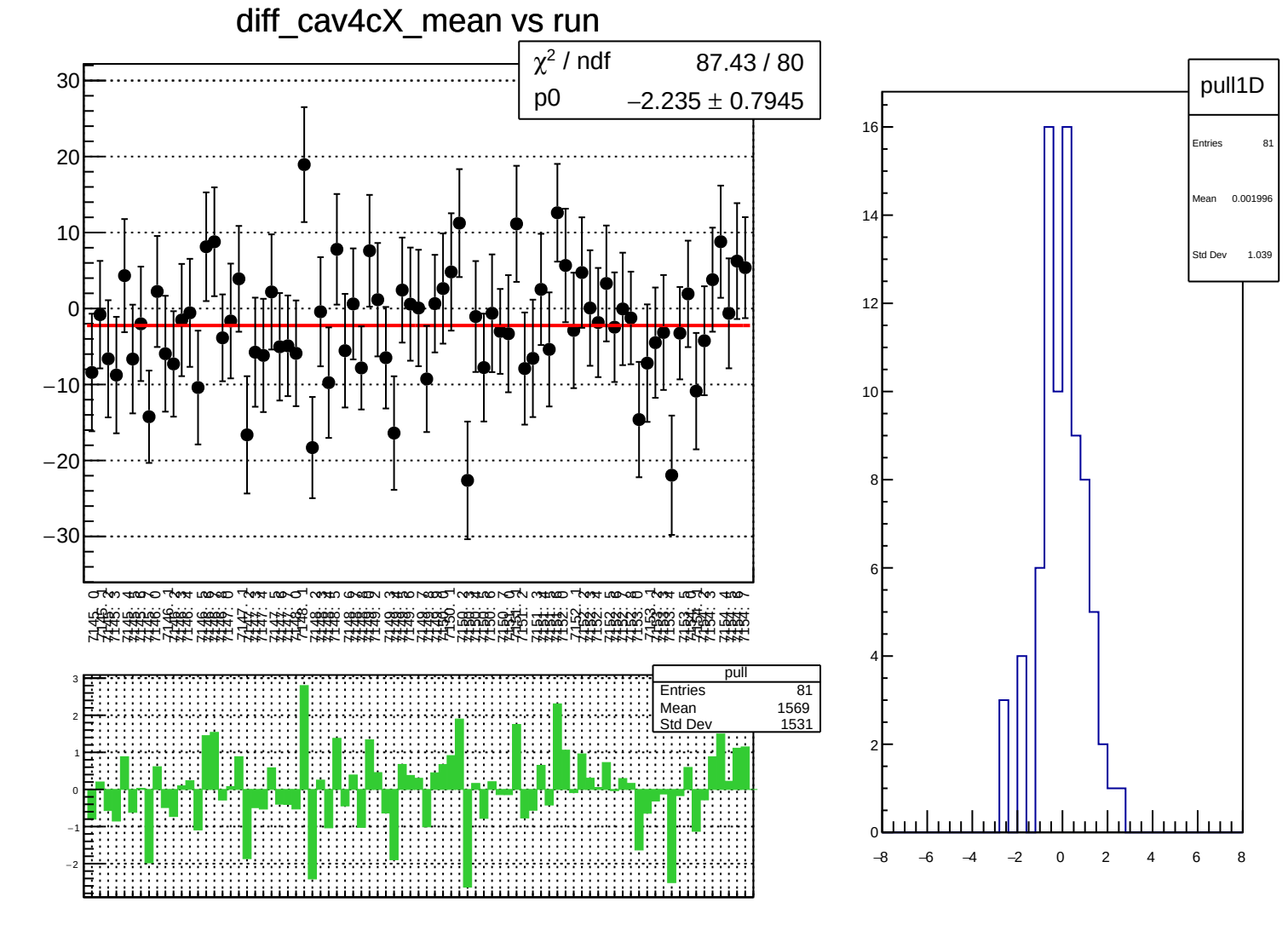

diff_cav4bX_mean vs run
χ² / ndf 86.91 / 80
p0 −38.79 ± 13.57
pull
Entries 81
Mean 1248
Std Dev 1210
pull1D
Entries 81
Mean 0.002425
Std Dev 1.036

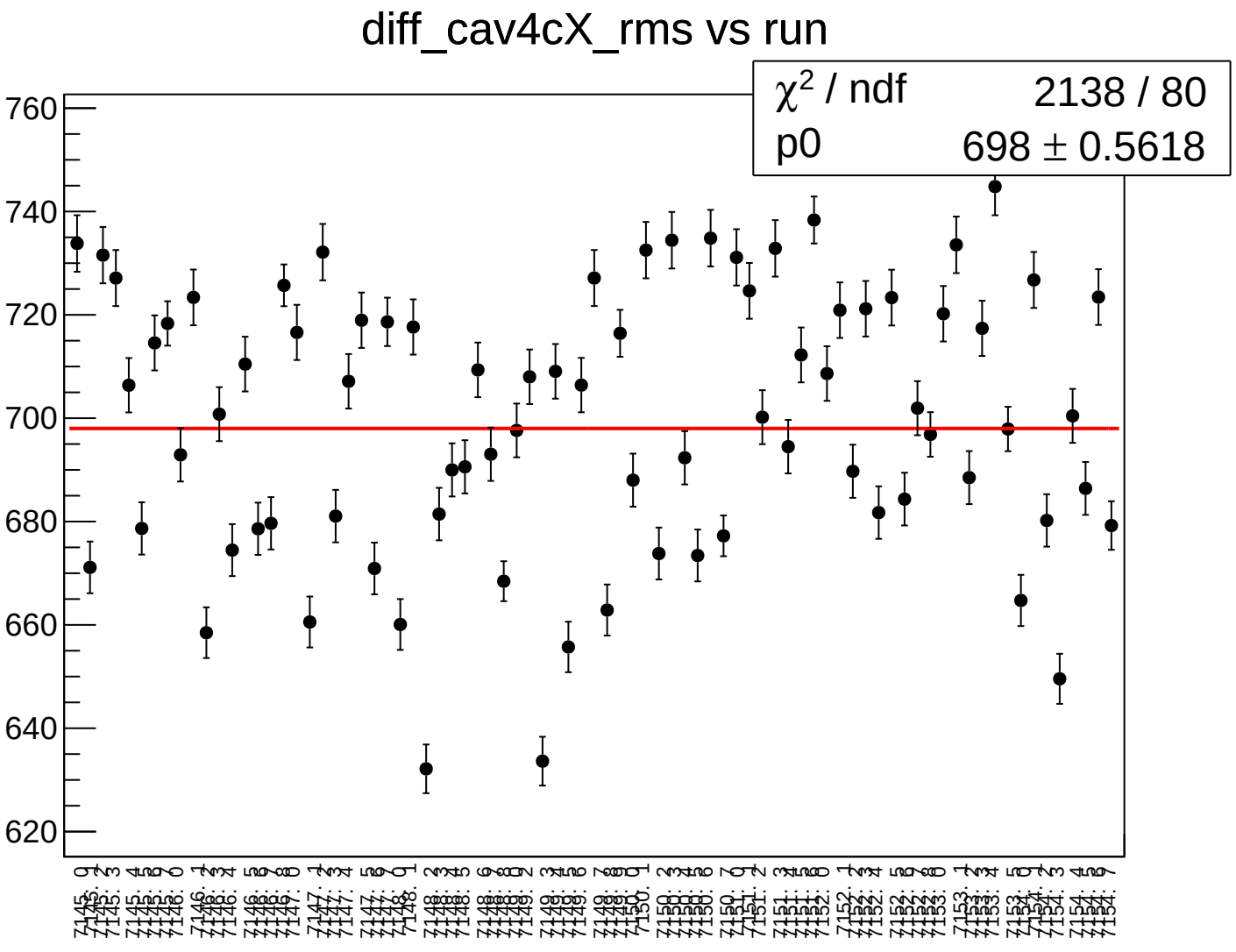

diff_cav4bX_rms vs run
χ² / ndf 2880 / 80
p0 1.192e+04 ± 9.595
13500
13000
12500
12000
11500
11000
10500

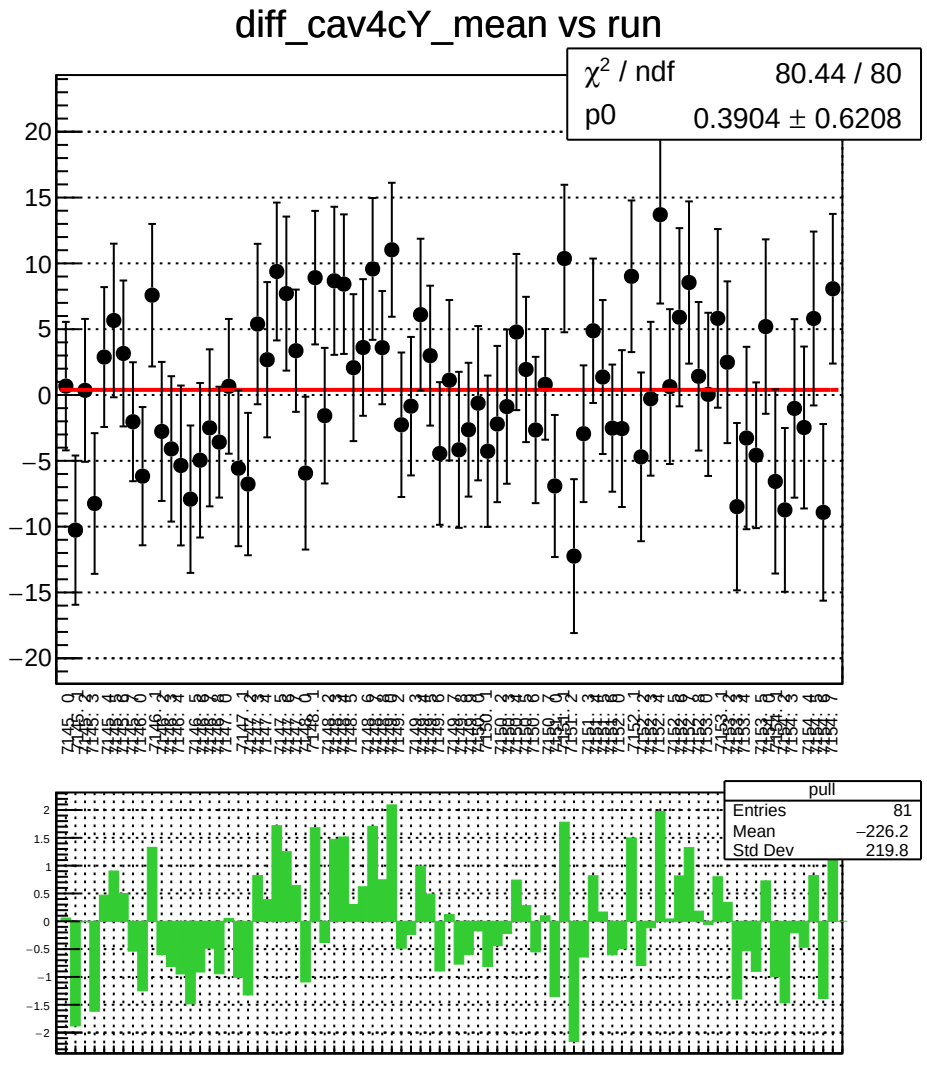

diff_cav4bY_mean vs run
χ^2 / ndf 82.08 / 80
p0 2.903 ± 5.289
pull
Entries 81
Mean −301.6
Std Dev 304.2

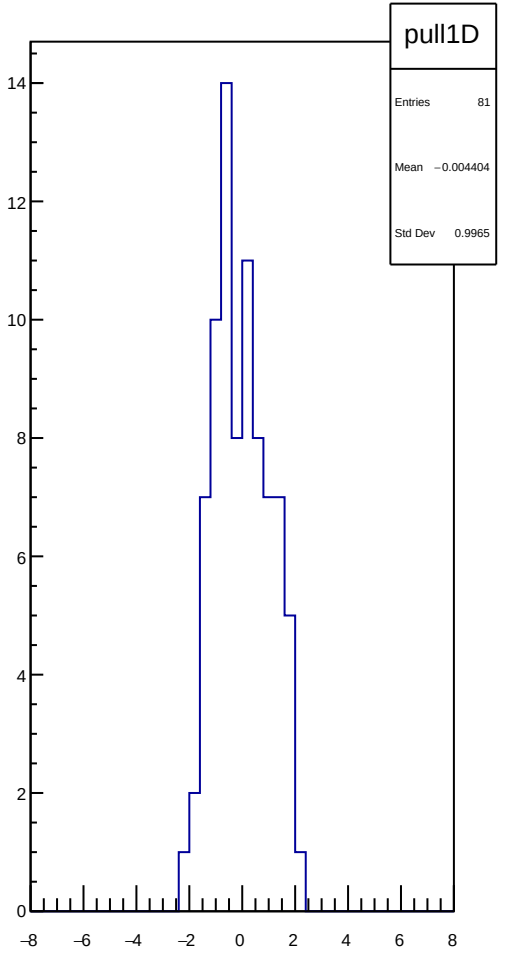

pull1D
Entries 81
Mean −0.004094
Std Dev 1.007

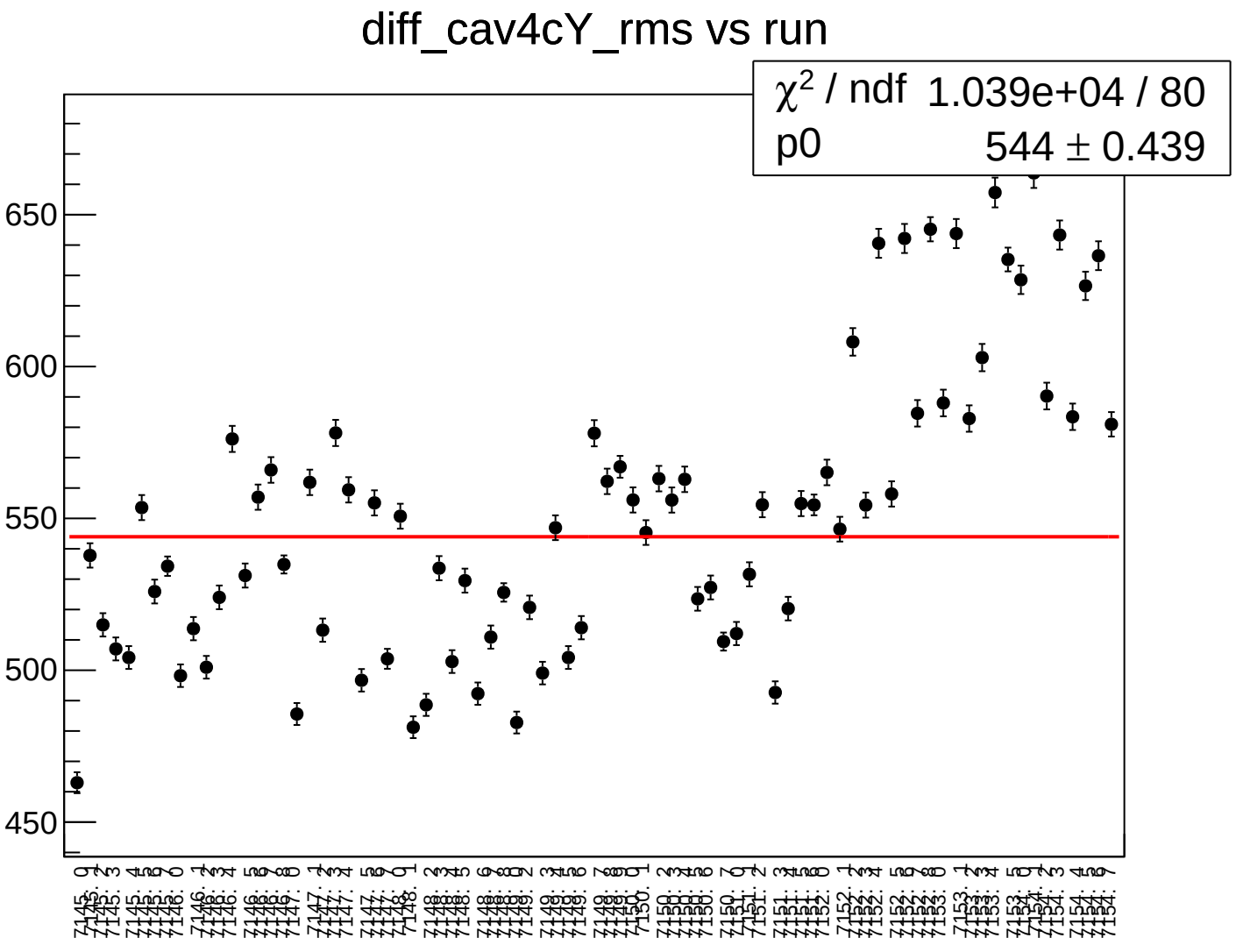

diff_cav4bY_rms vs run
χ² / ndf 7085 / 80
p0 4639 ± 3.74
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

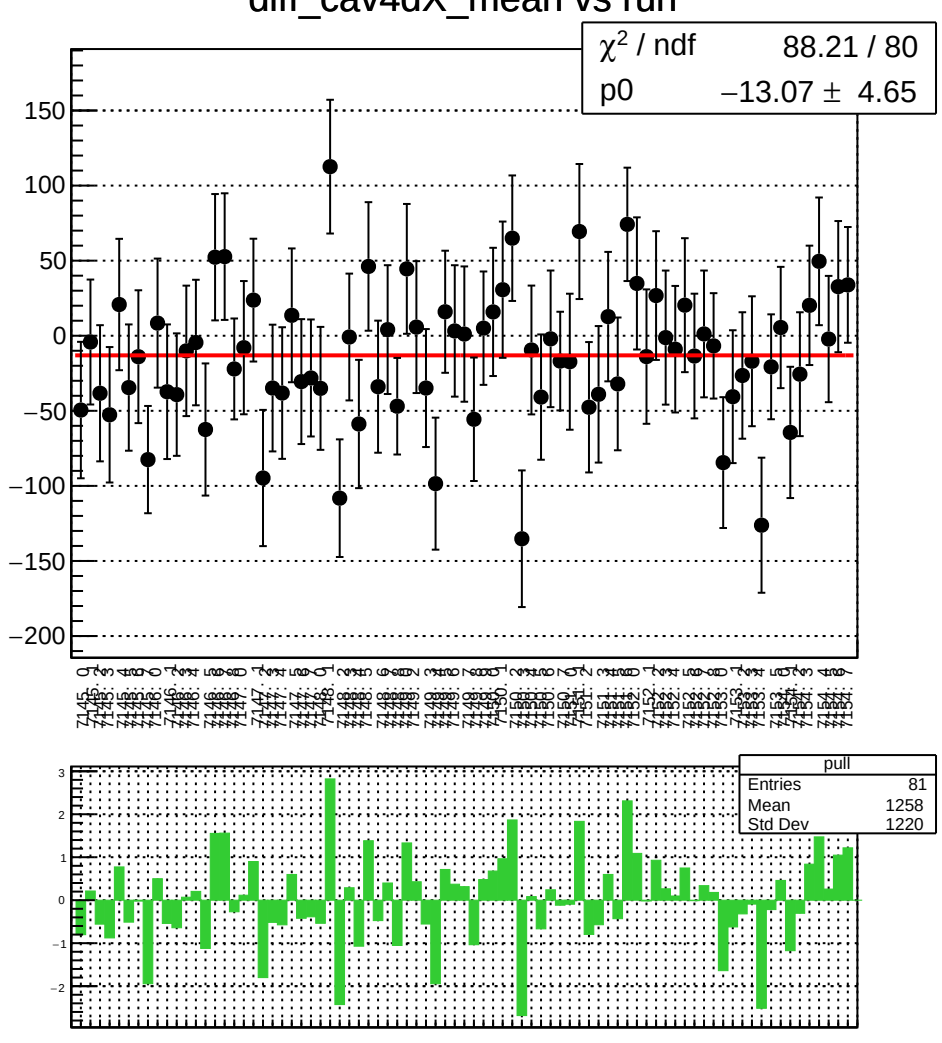

diff_cav4cX_mean vs run
χ² / ndf 87.43 / 80
p0 −2.235 ± 0.7945
pull
Entries 81
Mean 1569
Std Dev 1531
pull1D
Entries 81
Mean 0.001996
Std Dev 1.039

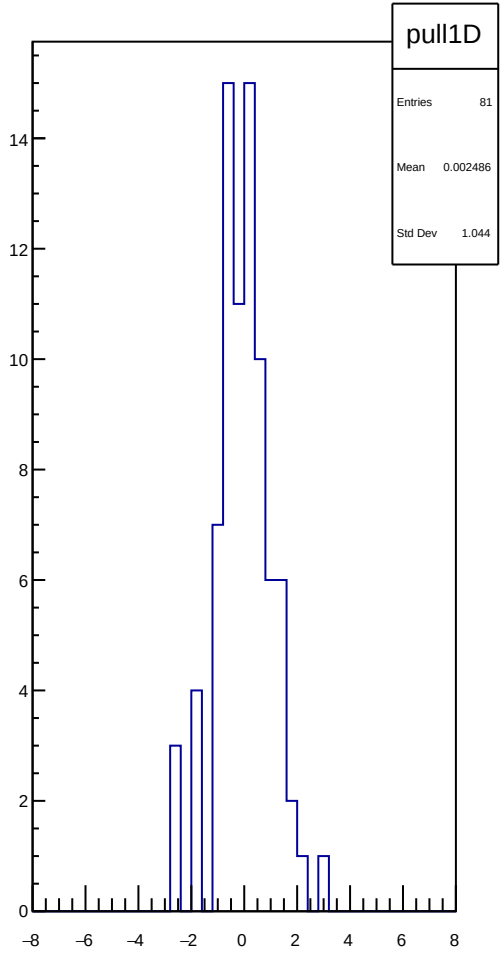

diff_cav4cX_rms vs run
χ² / ndf 2138 / 80
p0 698 ± 0.5618
760
740
720
700
680
660
640
620

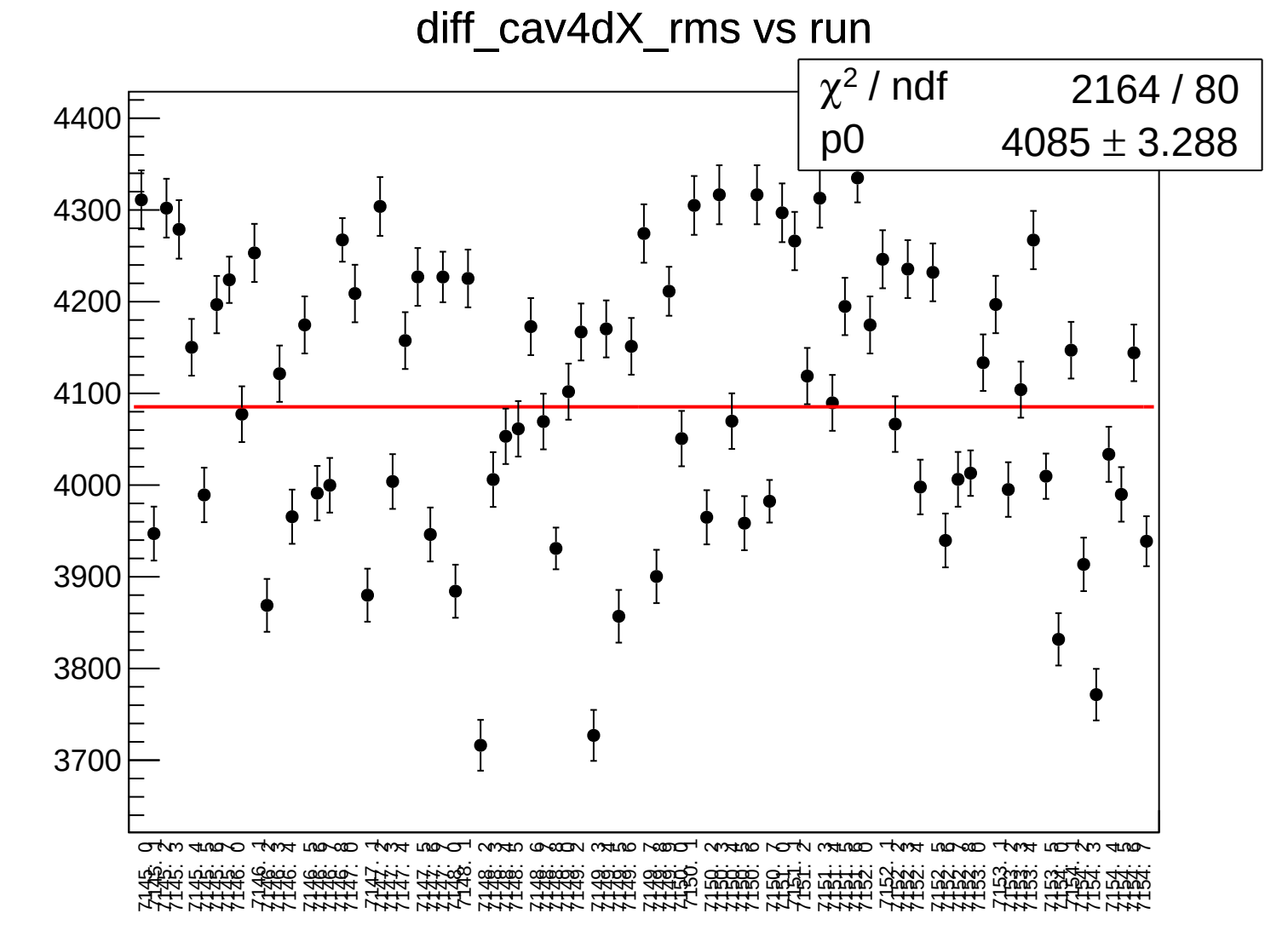

diff_cav4cY_mean vs run
χ^2 / ndf 80.44 / 80
p0 0.3904 ± 0.6208
pull
Entries 81
Mean −226.2
Std Dev 219.8

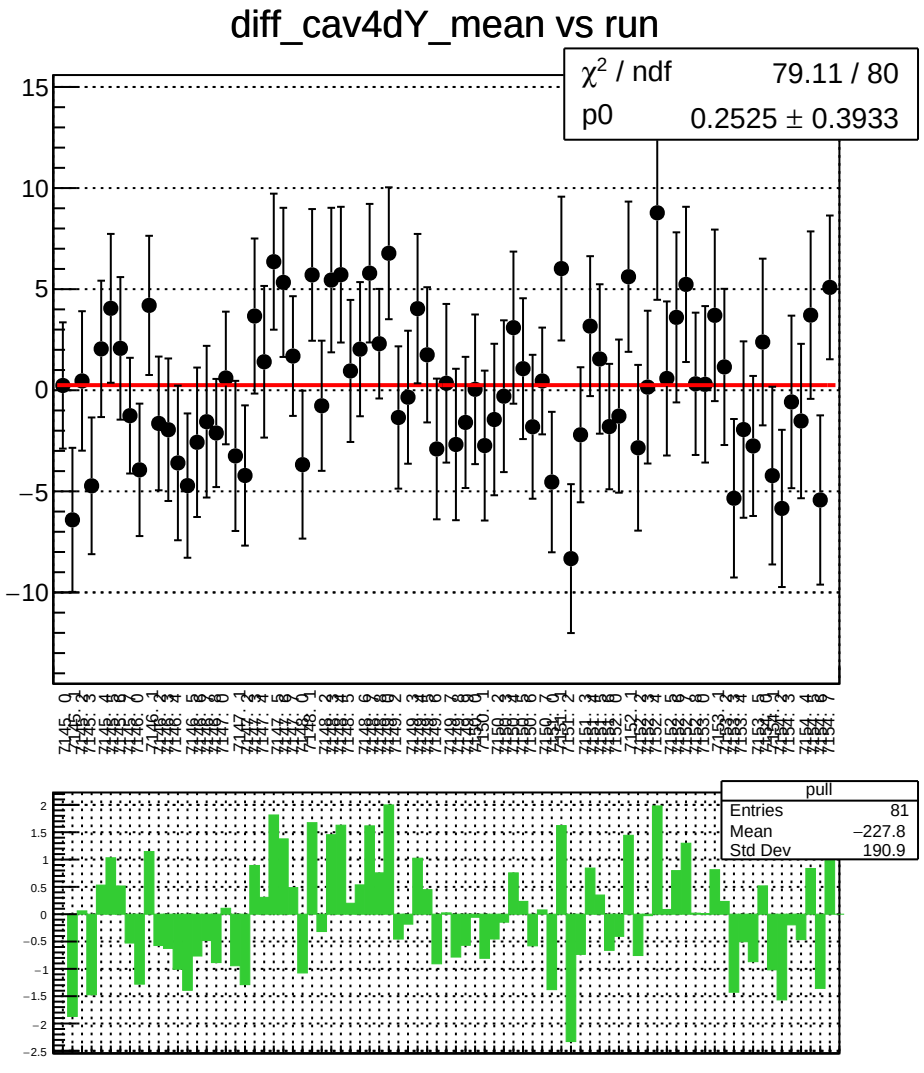

pull1D
Entries 81
Mean −0.004404
Std Dev 0.9965

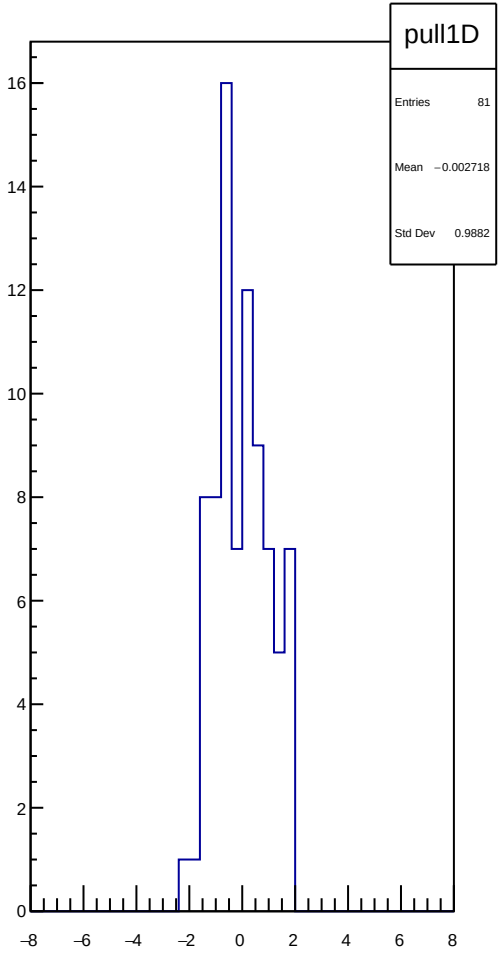

diff_cav4cY_rms vs run
χ² / ndf 1.039e+04 / 80
p0 544 ± 0.439
650
600
550
500
450

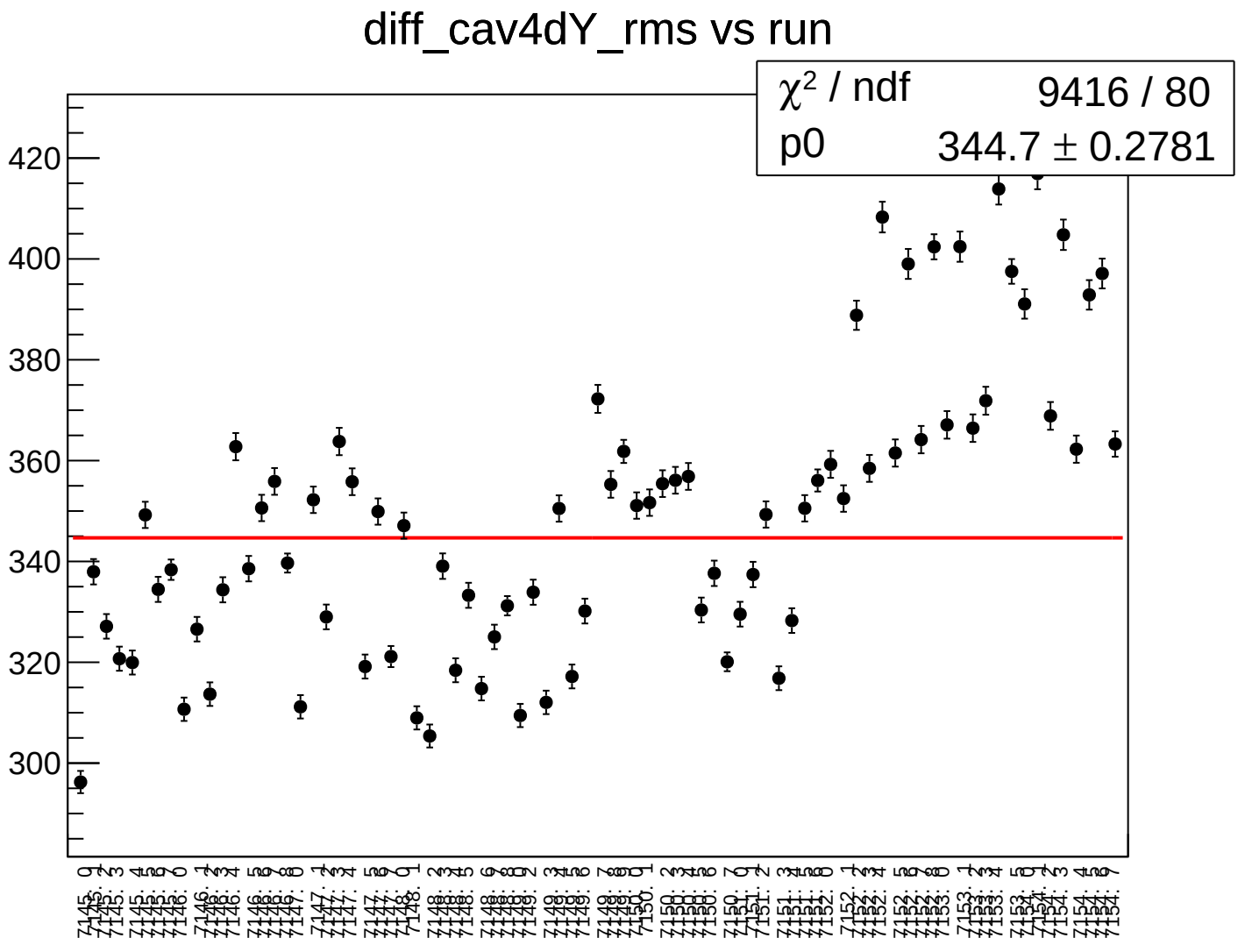

diff_cav4dX_mean vs run
χ^2 / ndf 88.21 / 80
p0 −13.07 ± 4.65
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean 1258
Std Dev 1220
3
2
1
0
−1
−2

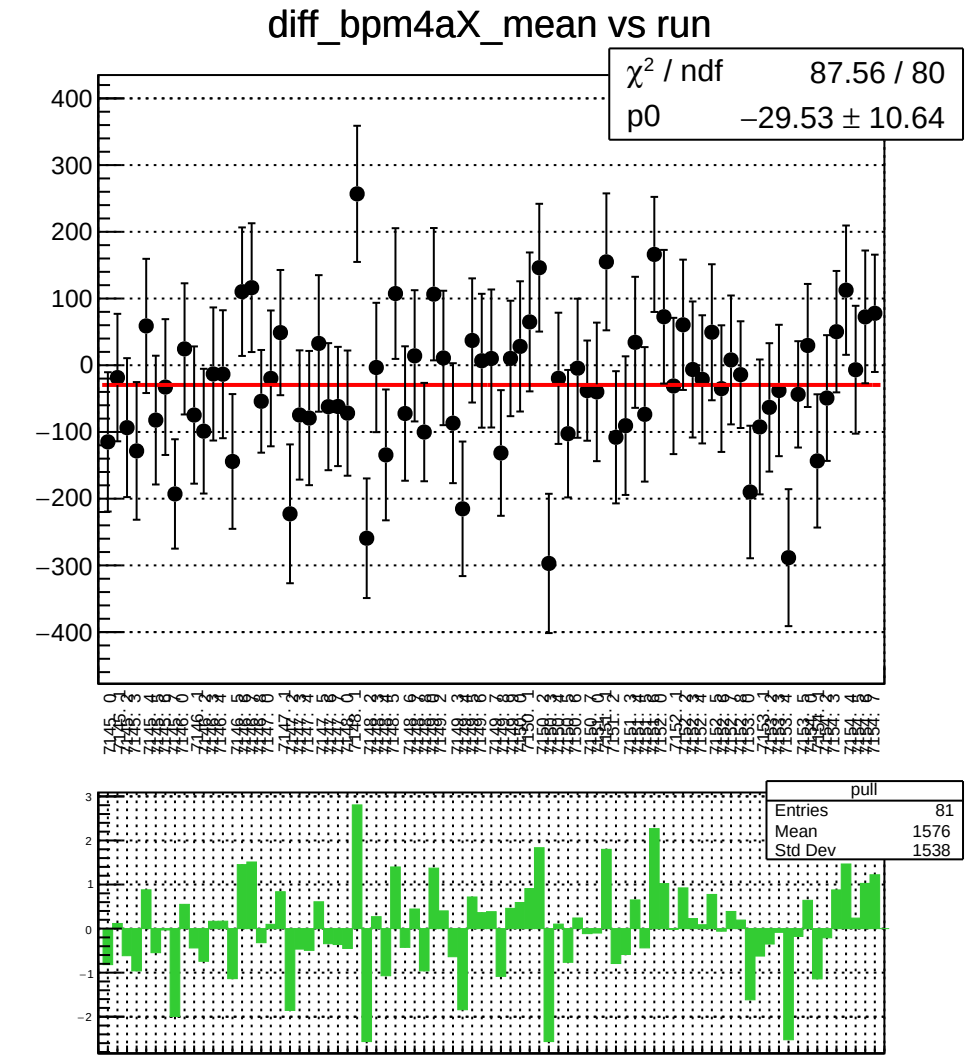

pull1D
Entries 81
Mean 0.002486
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

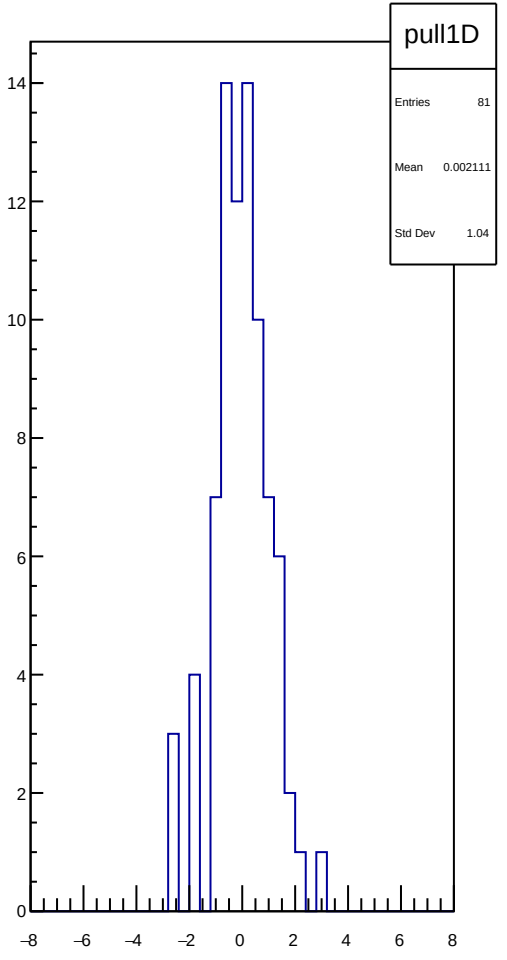

diff_cav4dX_rms vs run
χ² / ndf 2164 / 80
p0 4085 ± 3.288
4400
4300
4200
4100
4000
3900
3800
3700

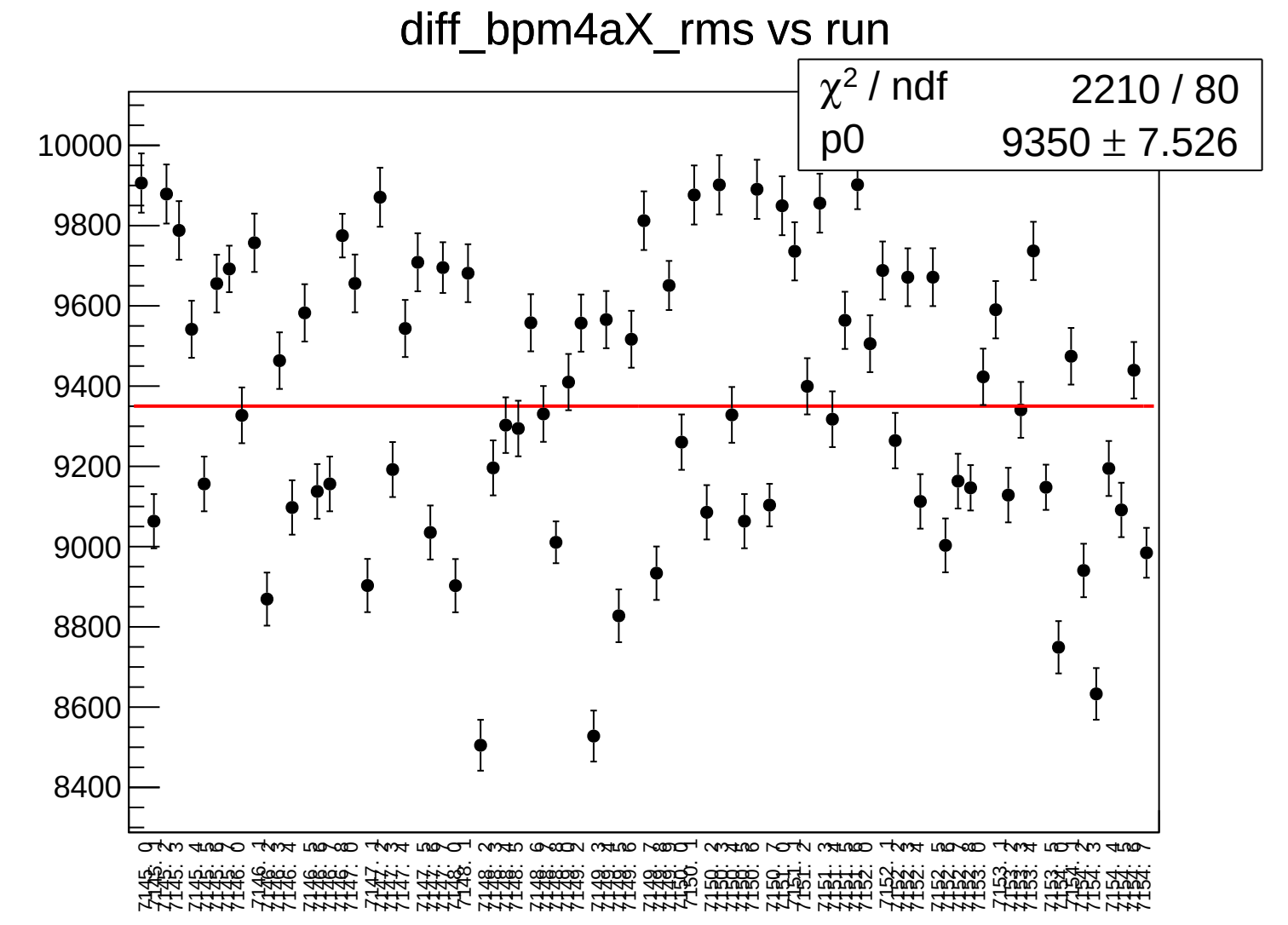

diff_cav4dY_mean vs run
χ² / ndf 79.11 / 80
p0 0.2525 ± 0.3933
pull
Entries 81
Mean −227.8
Std Dev 190.9

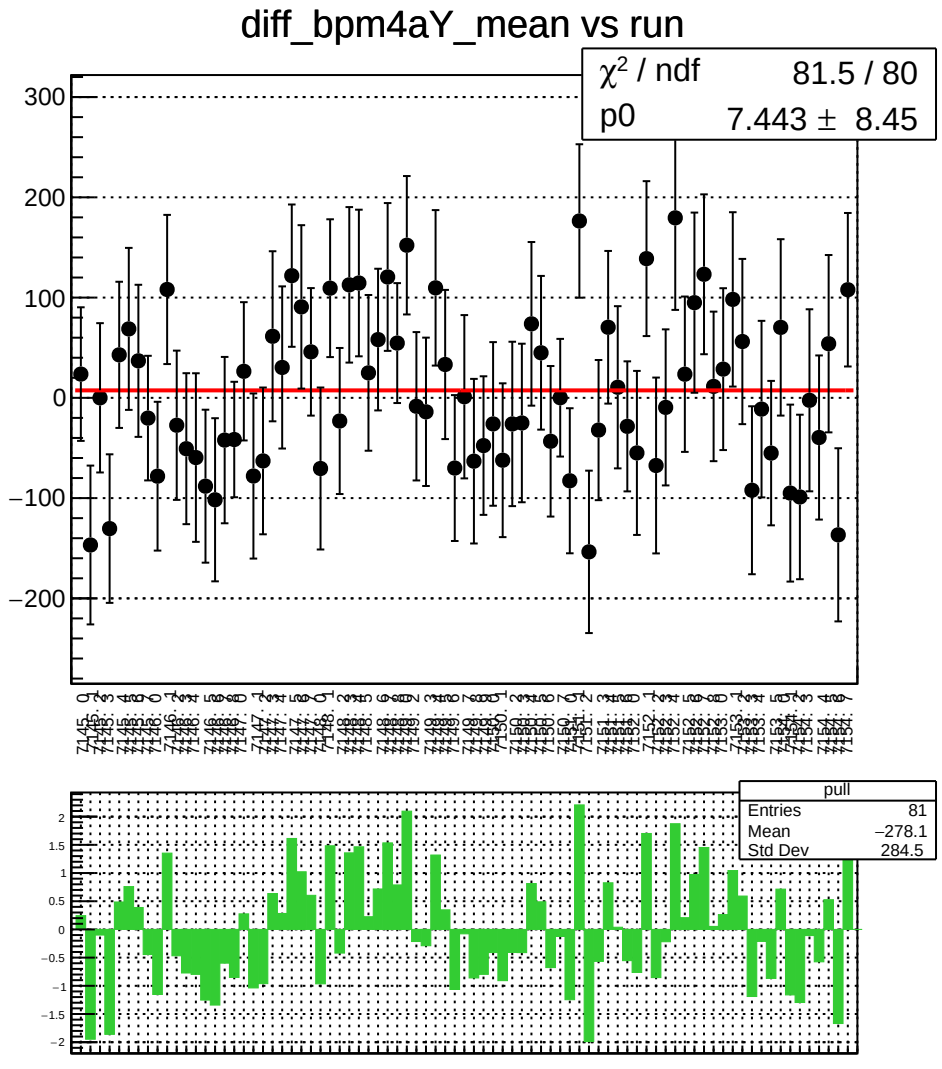

pull1D
Entries 81
Mean −0.002718
Std Dev 0.9882

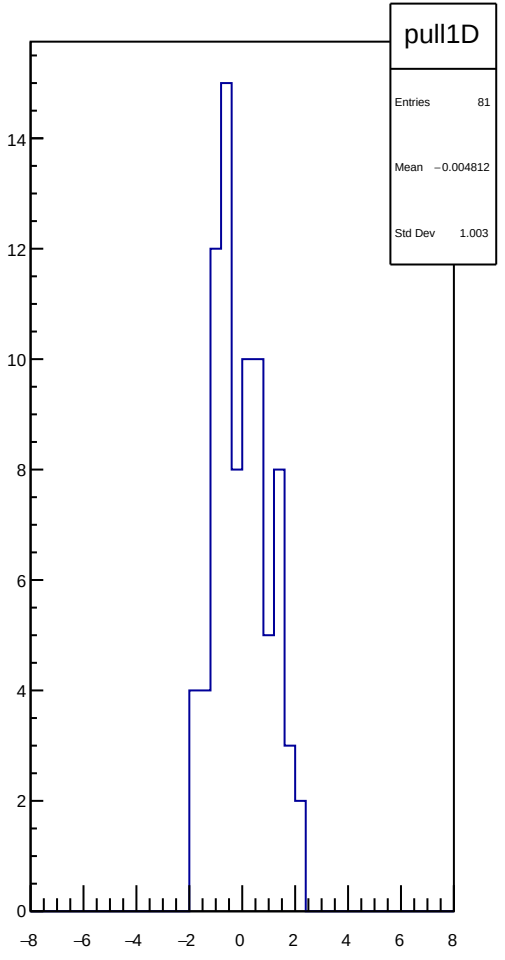

diff_cav4dY_rms vs run
χ² / ndf 9416 / 80
p0 344.7 ± 0.2781
420
400
380
360
340
320
300

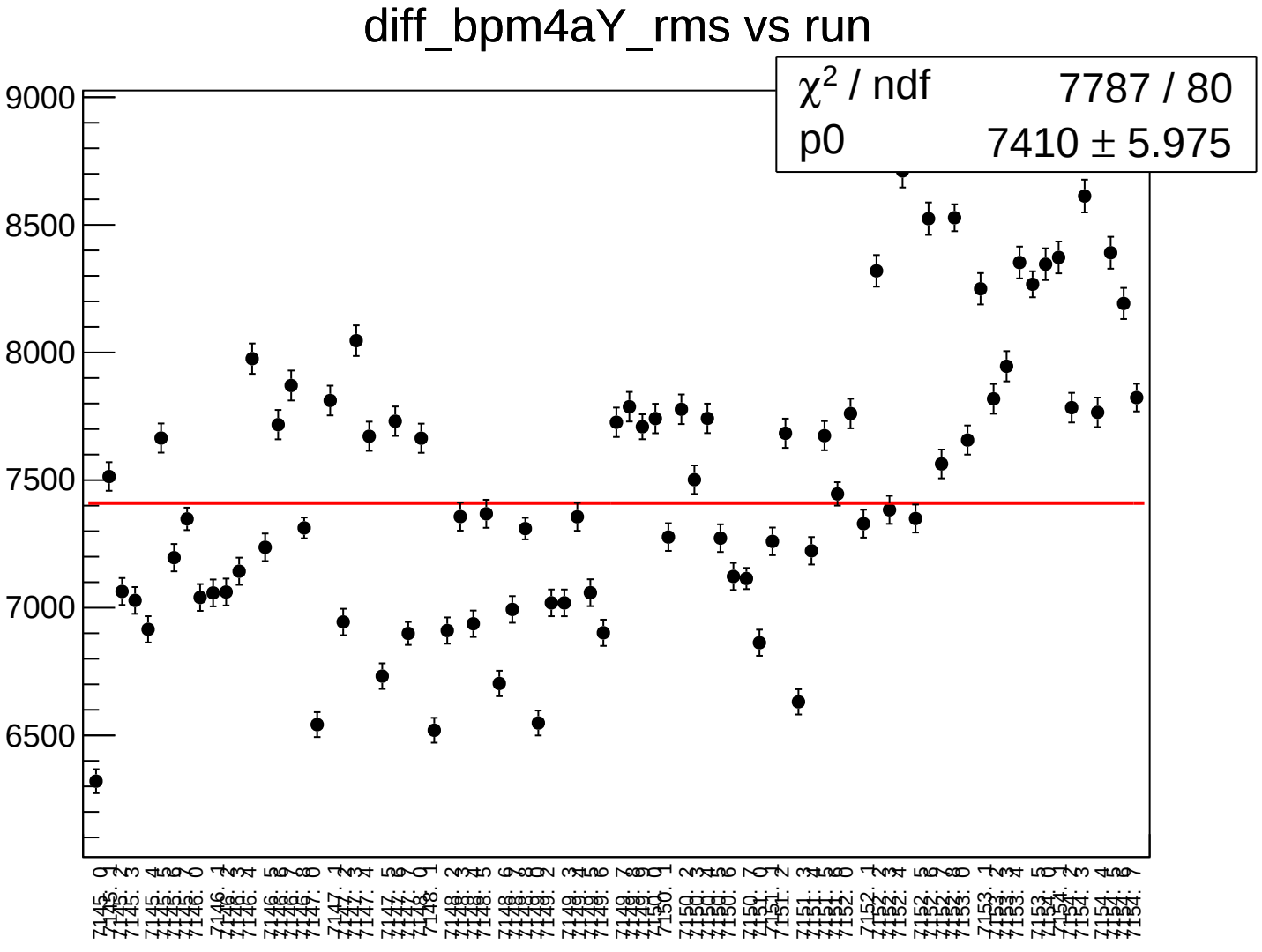

diff_bpm4aX_mean vs run
χ² / ndf 87.56 / 80
p0 −29.53 ± 10.64
pull
Entries 81
Mean 1576
Std Dev 1538

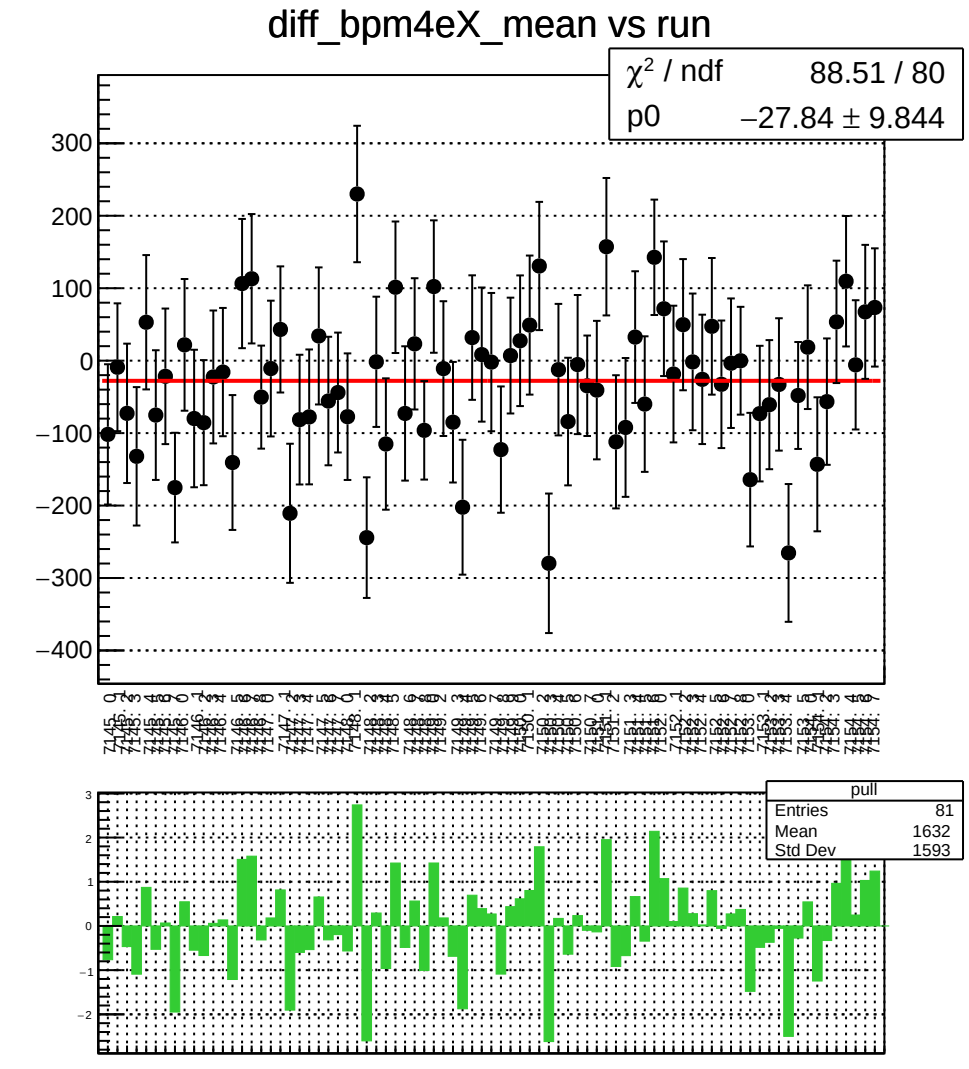

pull1D
Entries 81
Mean 0.002111
Std Dev 1.04

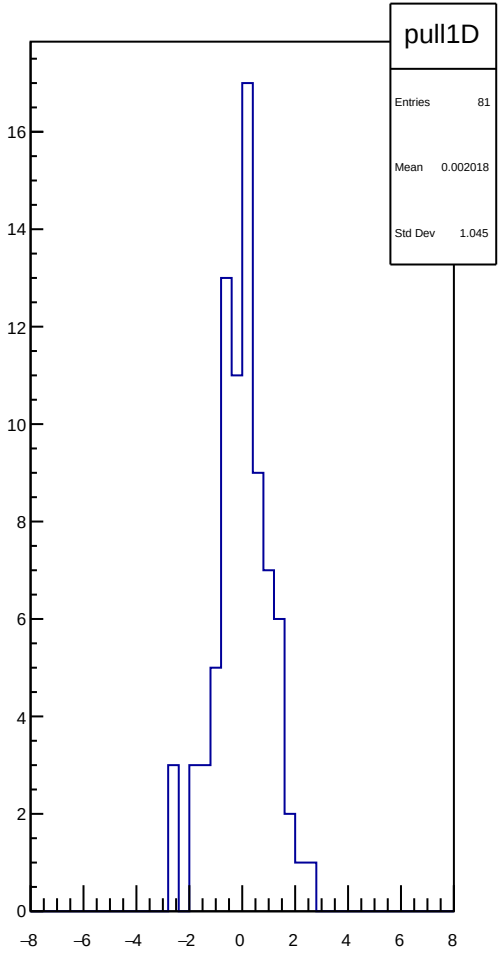

diff_bpm4aX_rms vs run
χ² / ndf 2210 / 80
p0 9350 ± 7.526
10000
9800
9600
9400
9200
9000
8800
8600
8400

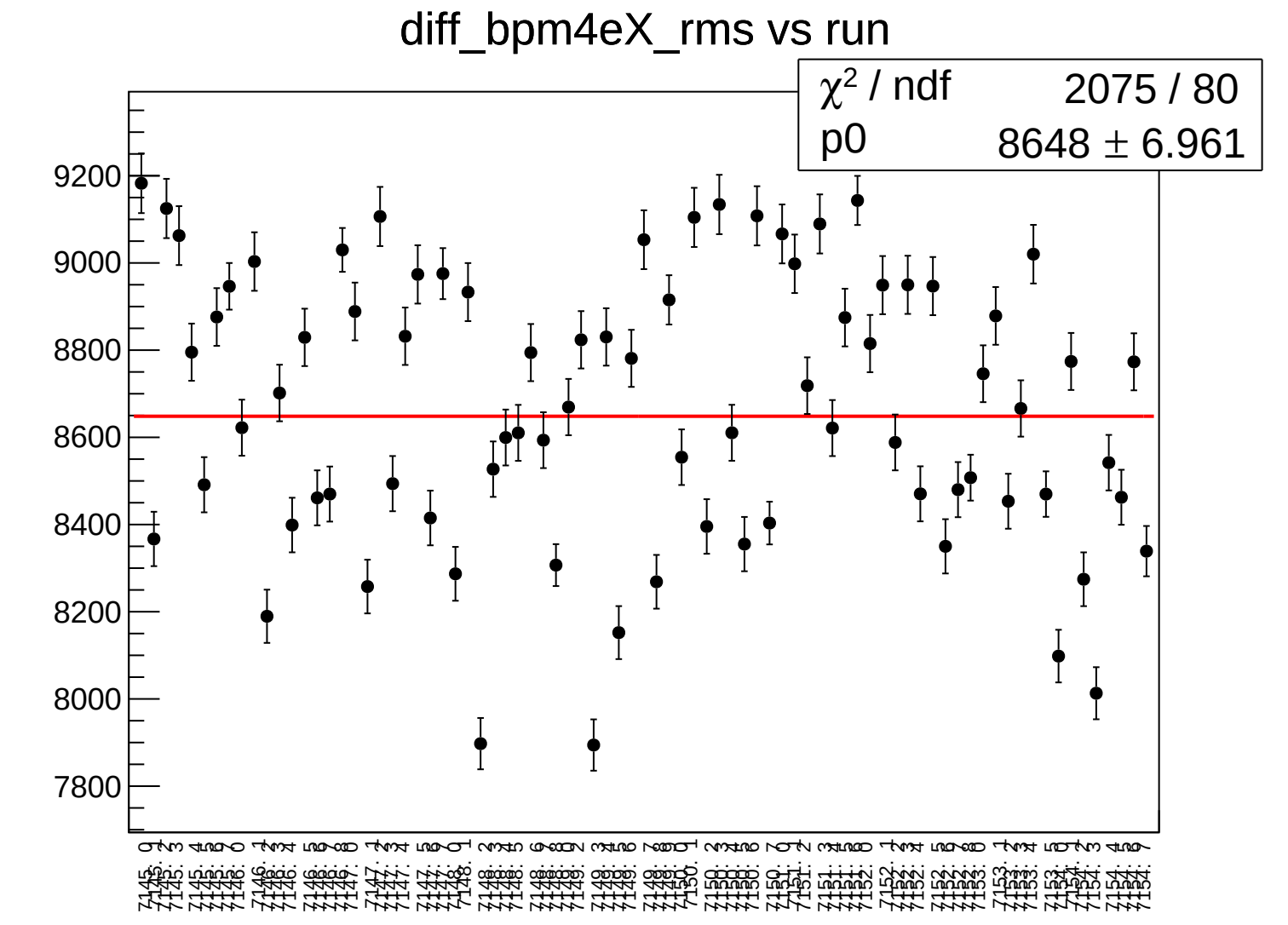

diff_bpm4aY_mean vs run
χ² / ndf 81.5 / 80
p0 7.443 ± 8.45
pull
Entries 81
Mean −278.1
Std Dev 284.5

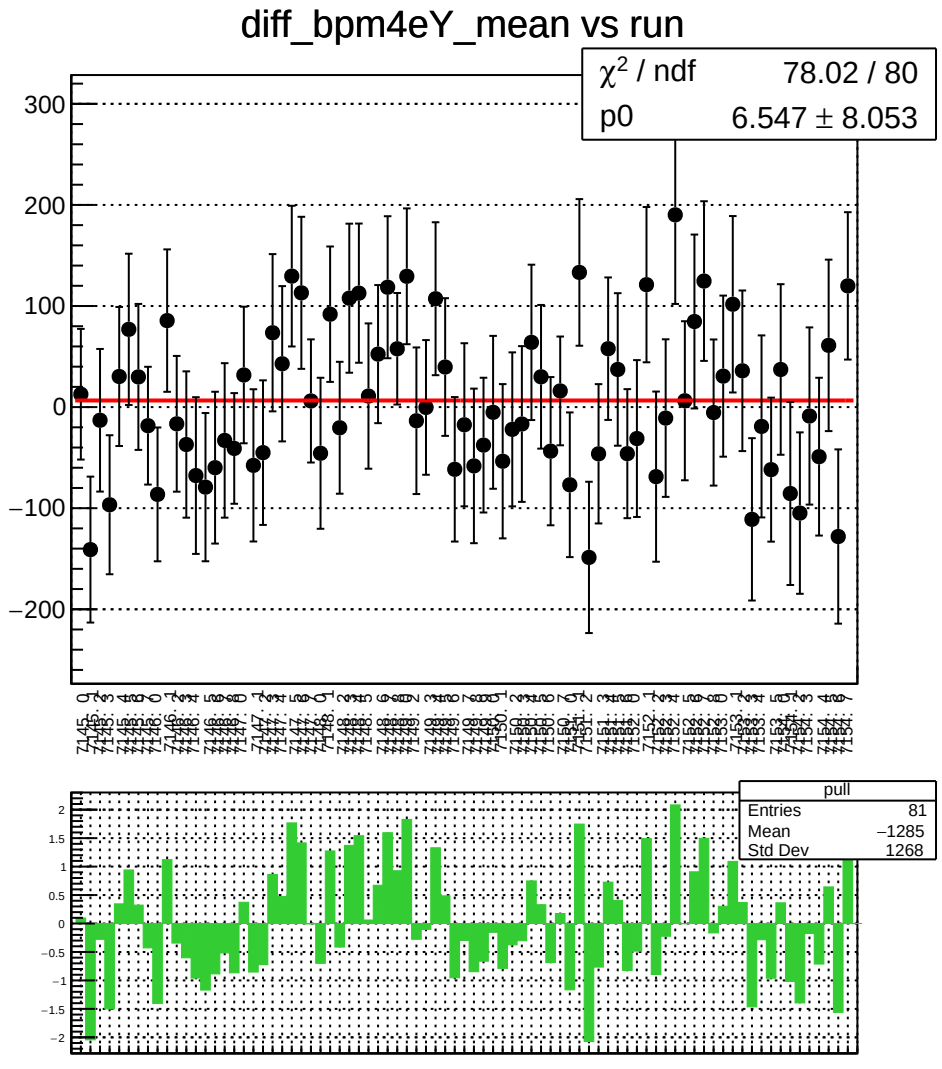

pull1D
Entries 81
Mean −0.004812
Std Dev 1.003

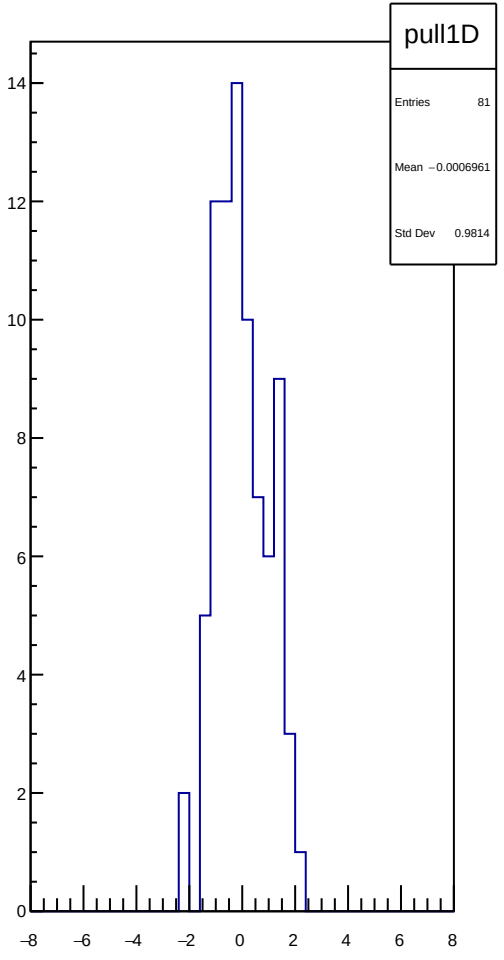

diff_bpm4aY_rms vs run
χ² / ndf 7787 / 80
p0 7410 ± 5.975
9000
8500
8000
7500
7000
6500

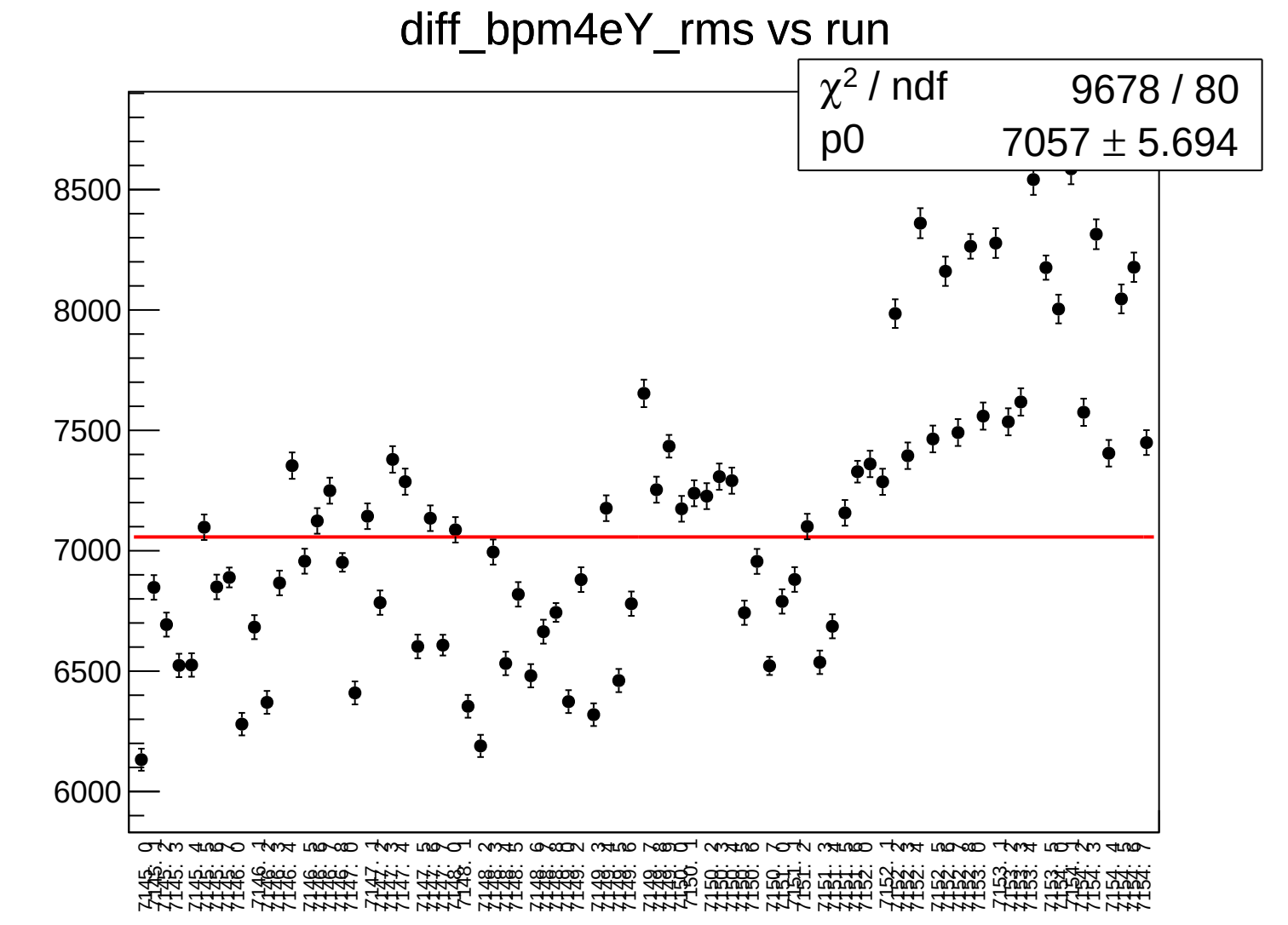

diff_bpm4eX_mean vs run
χ² / ndf 88.51 / 80
p0 −27.84 ± 9.844
pull
Entries 81
Mean 1632
Std Dev 1593

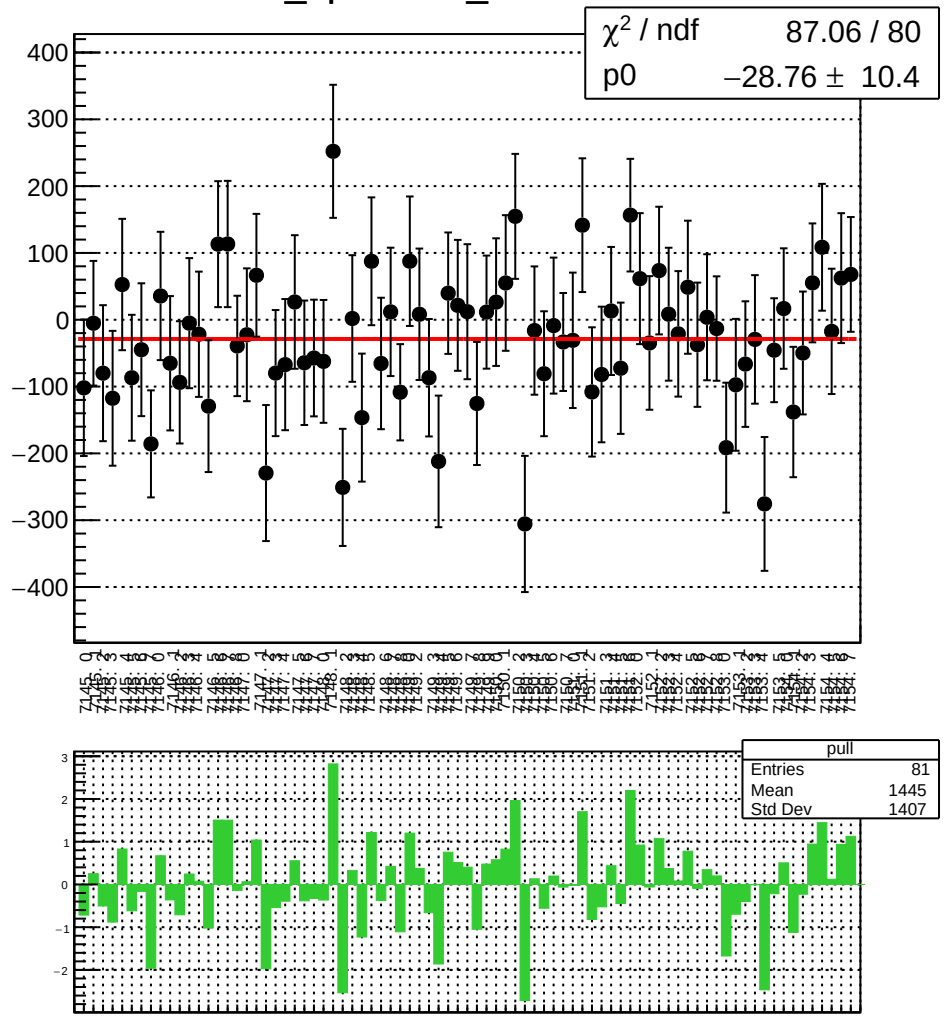

pull1D
Entries 81
Mean 0.002018
Std Dev 1.045

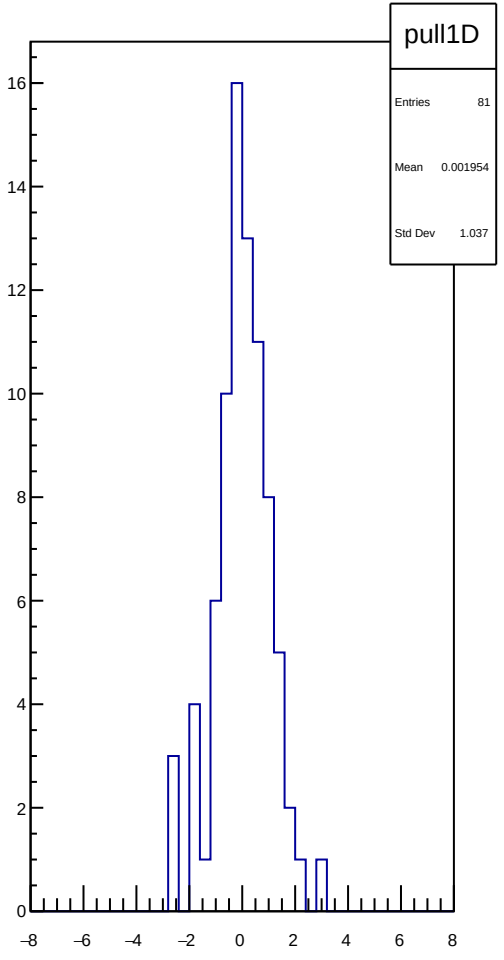

diff_bpm4eX_rms vs run
χ² / ndf 2075 / 80
p0 8648 ± 6.961
9200
9000
8800
8600
8400
8200
8000
7800

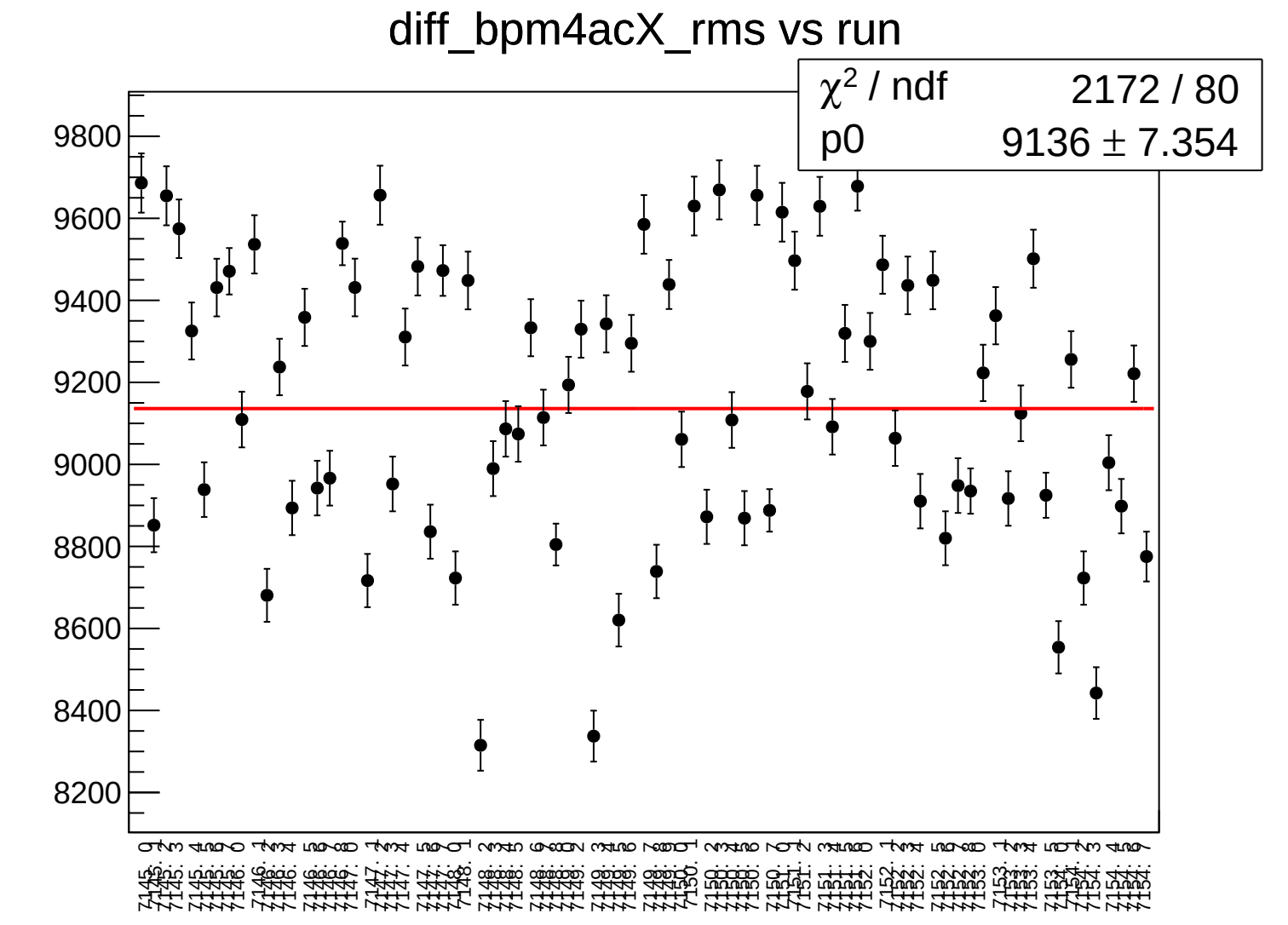

diff_bpm4eY_mean vs run
χ² / ndf 78.02 / 80
p0 6.547 ± 8.053
pull
Entries 81
Mean −1285
Std Dev 1268

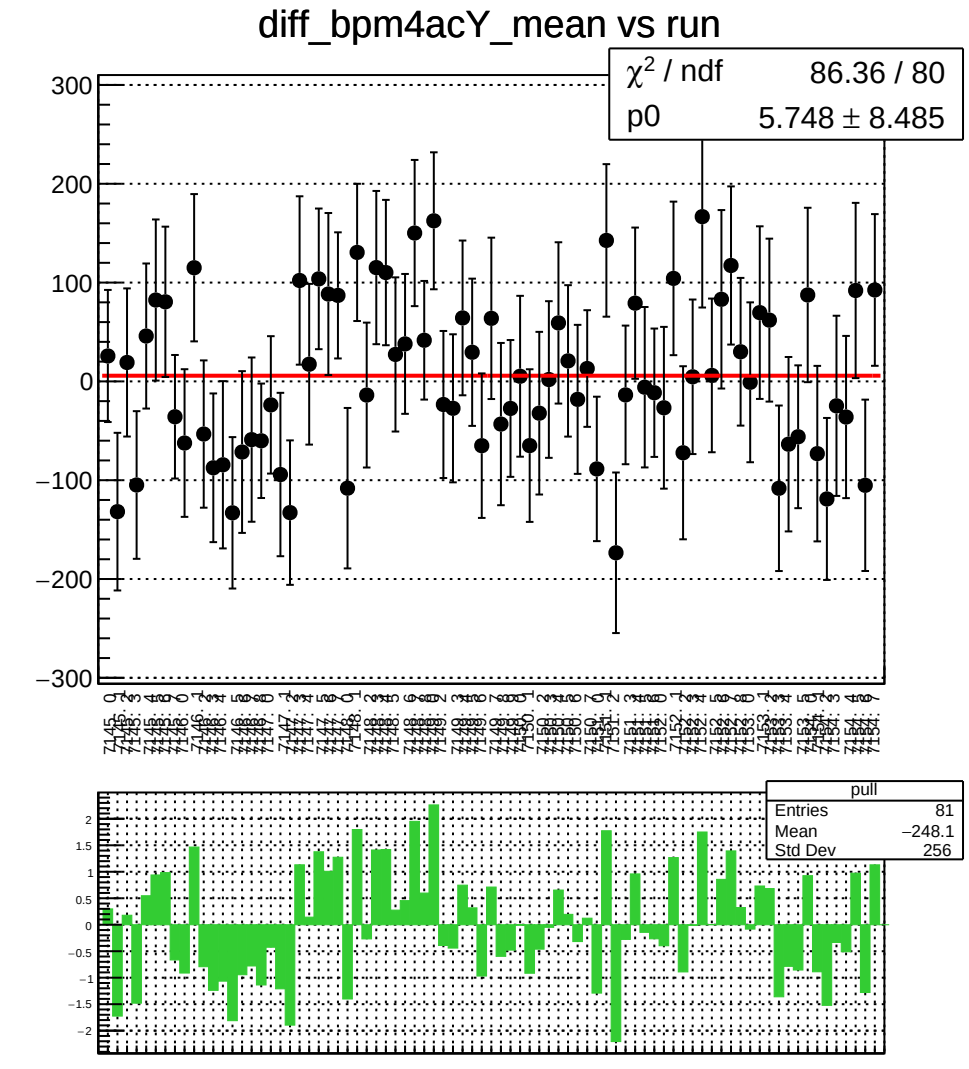

pull1D
Entries 81
Mean −0.0006961
Std Dev 0.9814

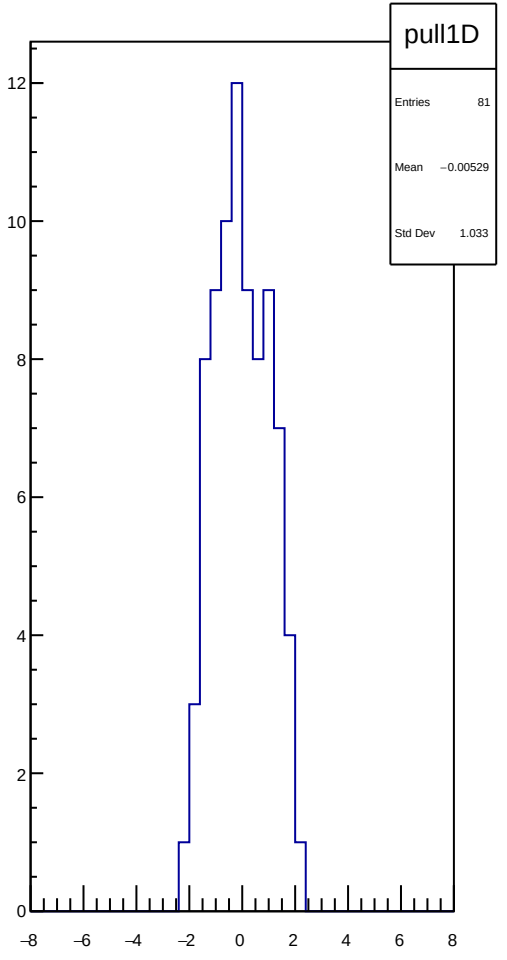

diff_bpm4eY_rms vs run
χ² / ndf 9678 / 80
p0 7057 ± 5.694
8500
8000
7500
7000
6500
6000

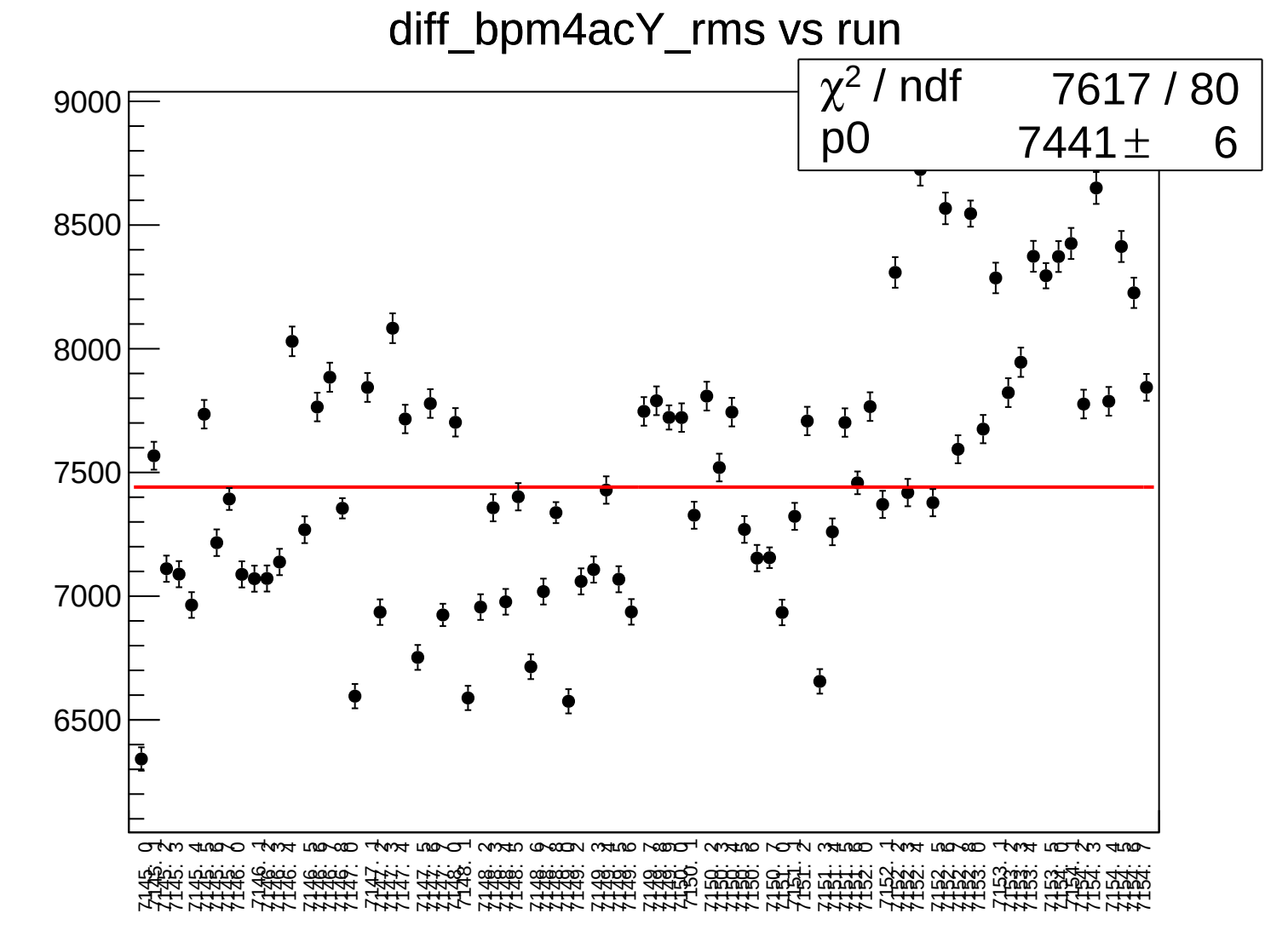

diff_bpm4acX_mean vs run
χ² / ndf 87.06 / 80
p0 −28.76 ± 10.4
pull
Entries 81
Mean 1445
Std Dev 1407

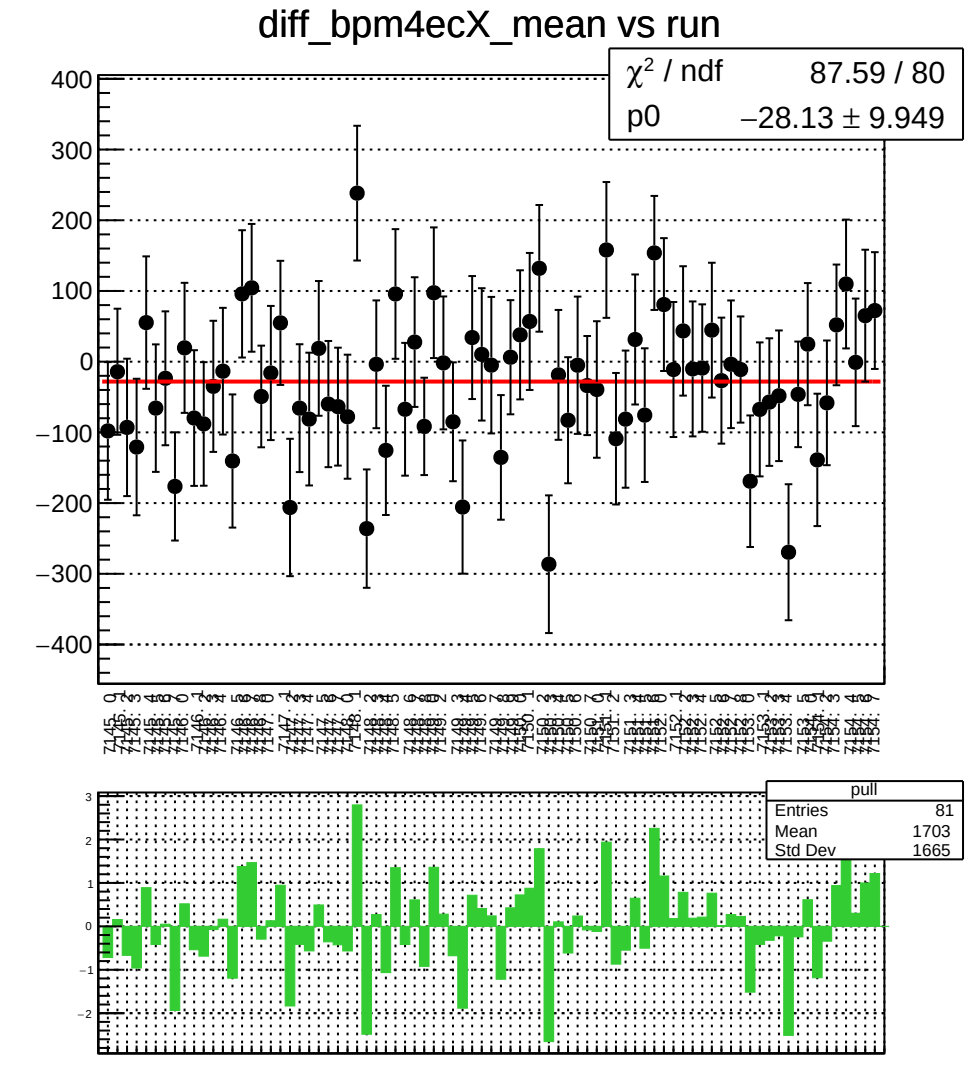

pull1D
Entries 81
Mean 0.001954
Std Dev 1.037

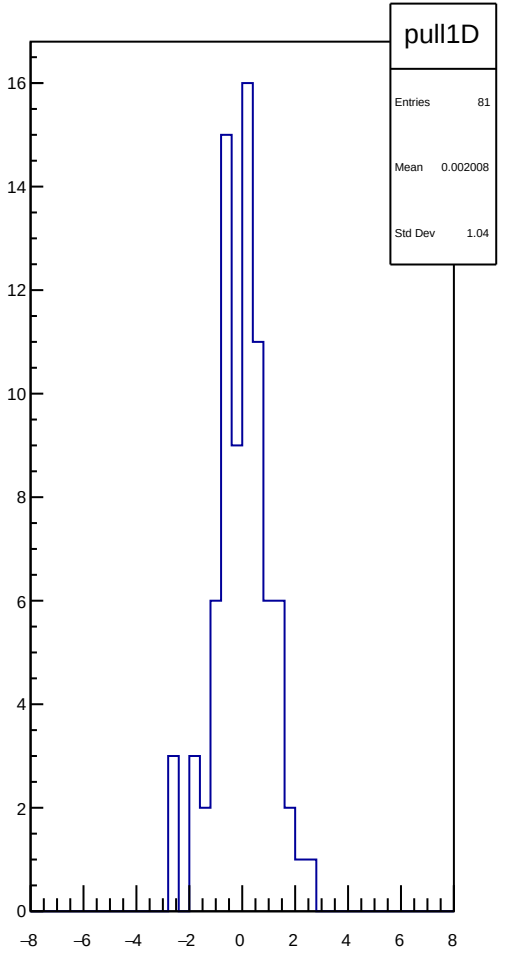

diff_bpm4acX_rms vs run
χ² / ndf 2172 / 80
p0 9136 ± 7.354
9800
9600
9400
9200
9000
8800
8600
8400
8200

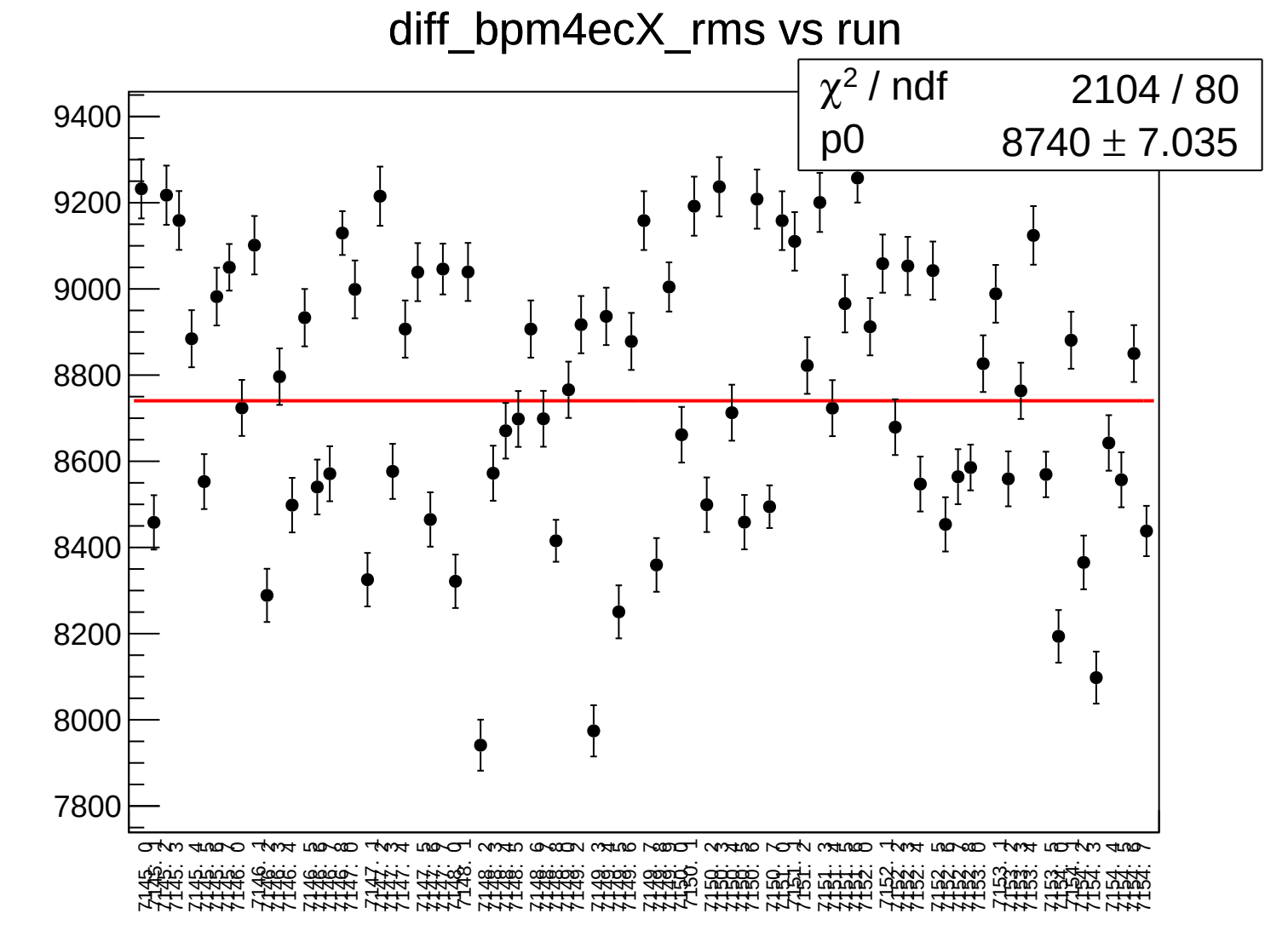

diff_bpm4acY_mean vs run
χ² / ndf 86.36 / 80
p0 5.748 ± 8.485
pull
Entries 81
Mean −248.1
Std Dev 256

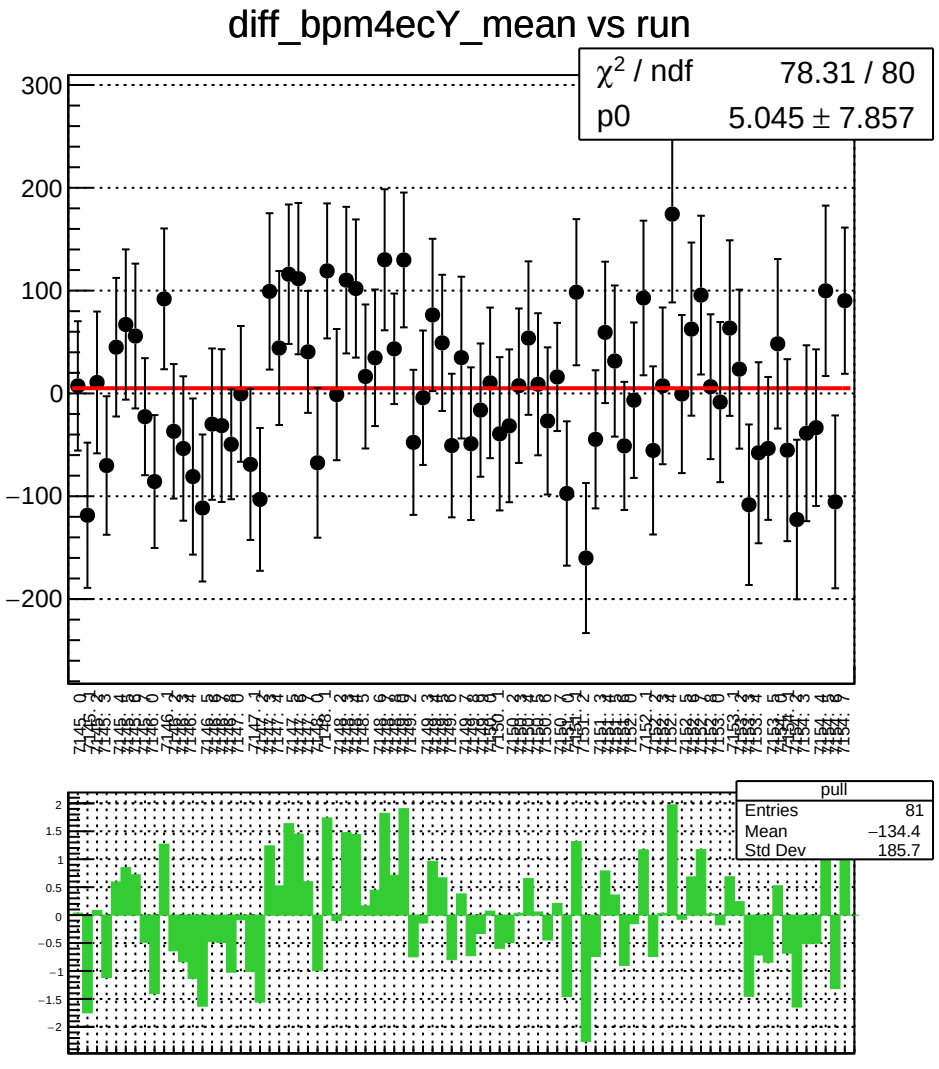

pull1D
Entries 81
Mean −0.00529
Std Dev 1.033

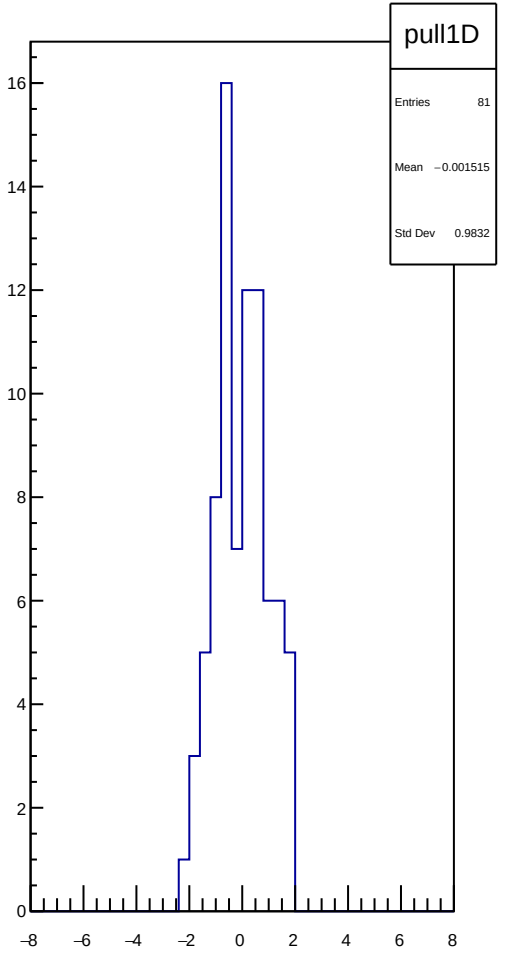

diff_bpm4acY_rms vs run
χ² / ndf 7617 / 80
p0 7441 ± 6
9000
8500
8000
7500
7000
6500

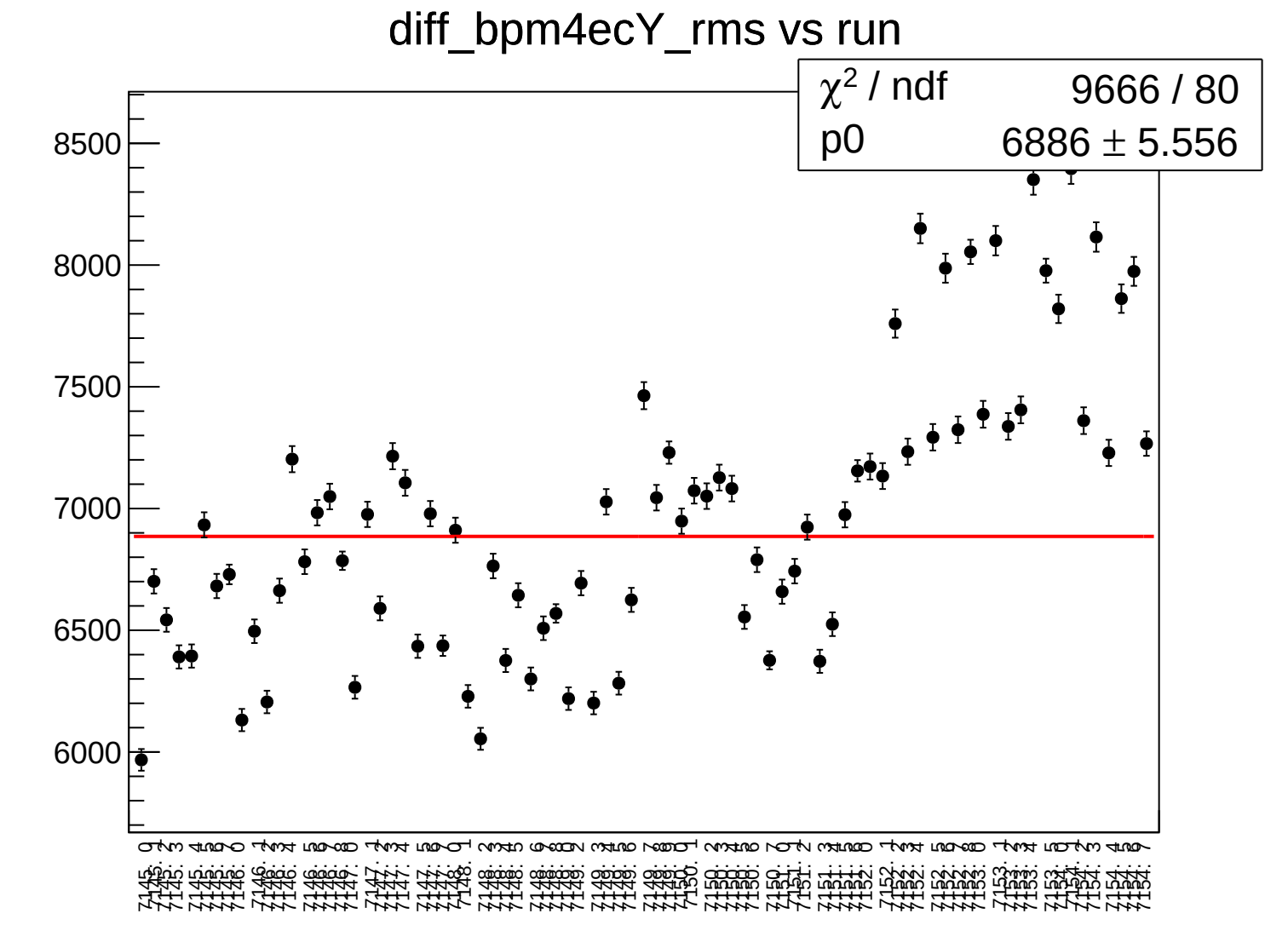

diff_bpm4ecX_mean vs run
χ² / ndf 87.59 / 80
p0 −28.13 ± 9.949
pull
Entries 81
Mean 1703
Std Dev 1665

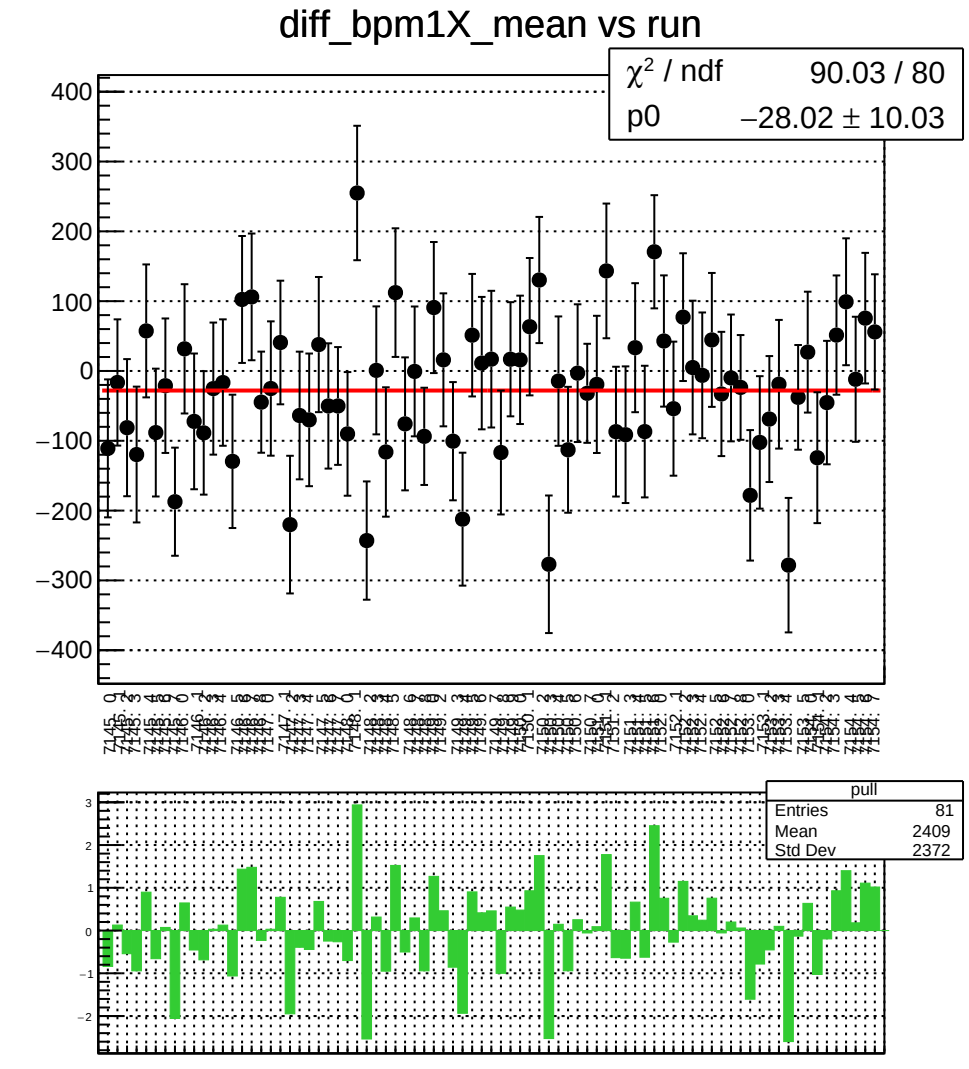

pull1D
Entries 81
Mean 0.002008
Std Dev 1.04

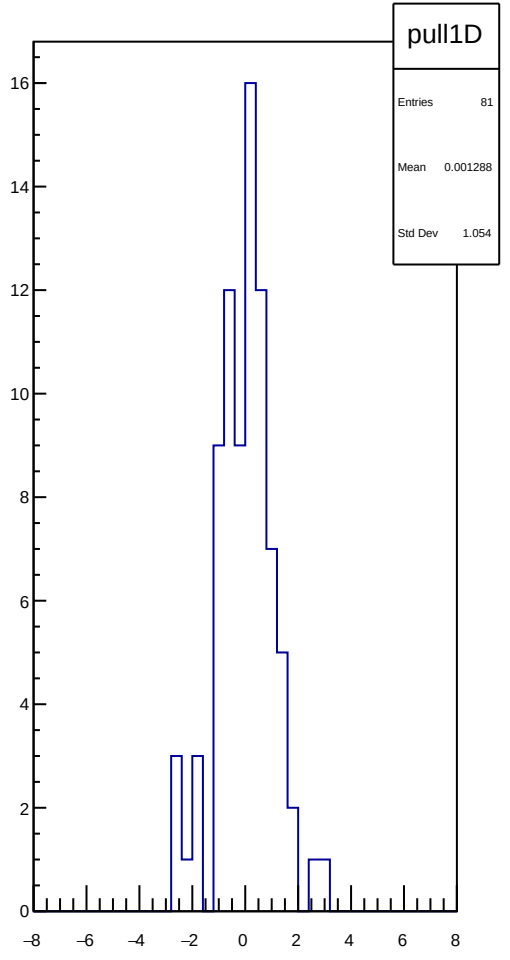

diff_bpm4ecX_rms vs run
χ² / ndf 2104 / 80
p0 8740 ± 7.035
9400
9200
9000
8800
8600
8400
8200
8000
7800

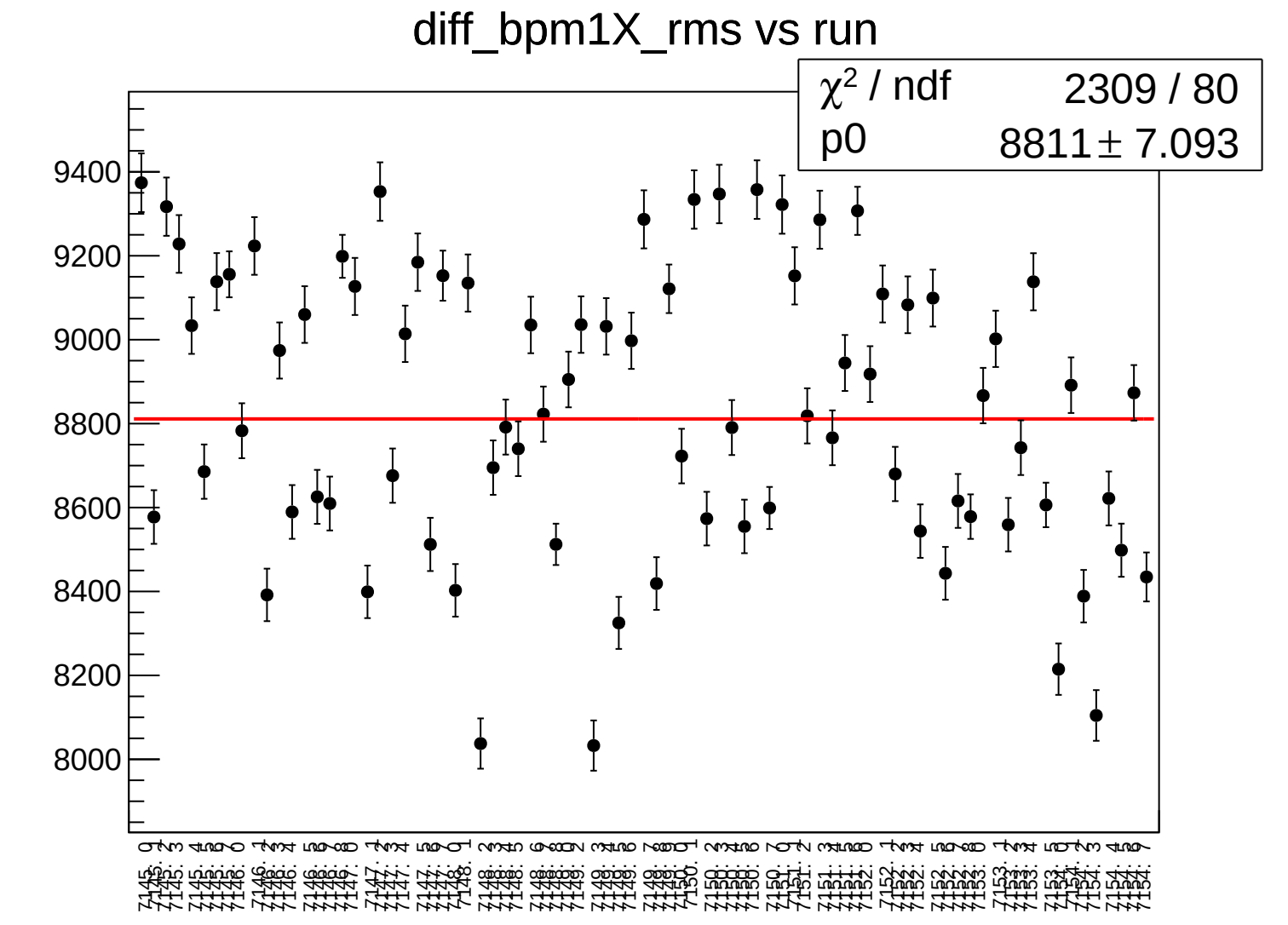

diff_bpm4ecY_mean vs run
χ^2 / ndf 78.31 / 80
p0 5.045 ± 7.857
pull
Entries 81
Mean −134.4
Std Dev 185.7

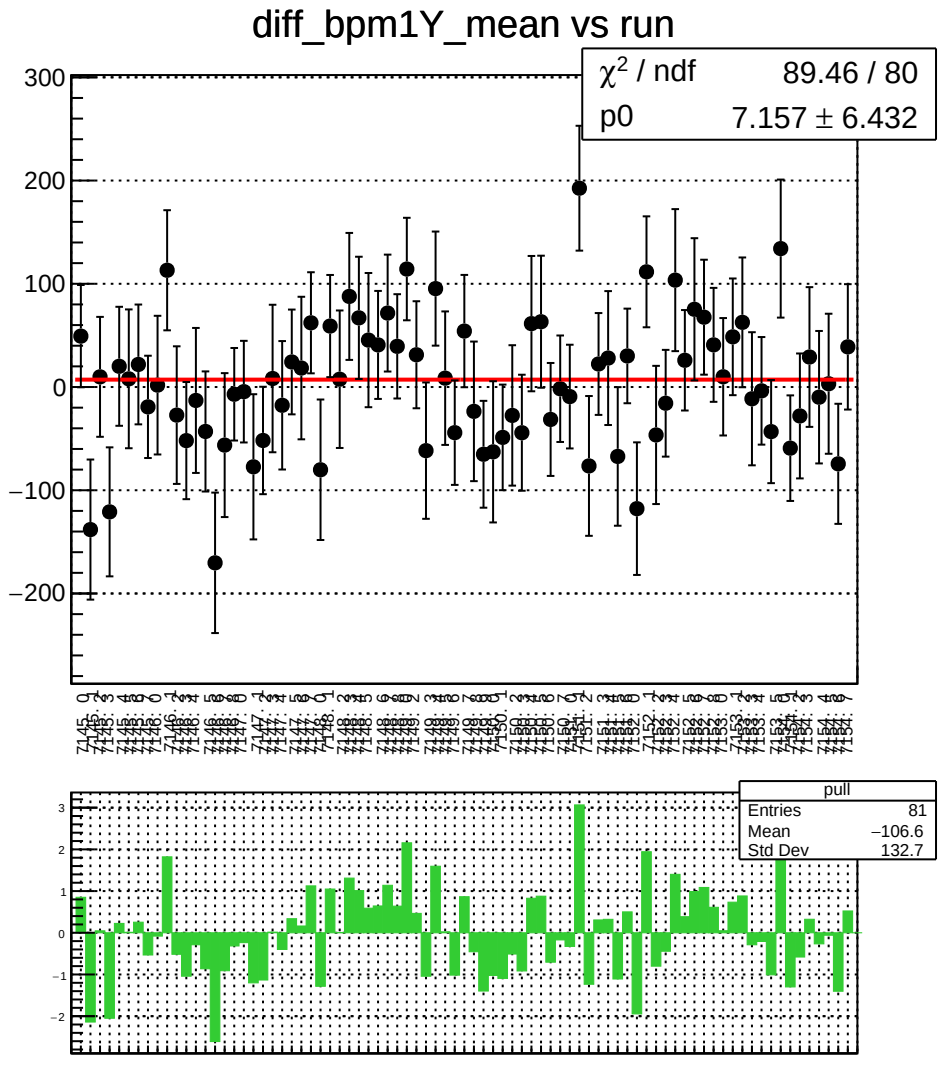

pull1D
Entries 81
Mean −0.001515
Std Dev 0.9832

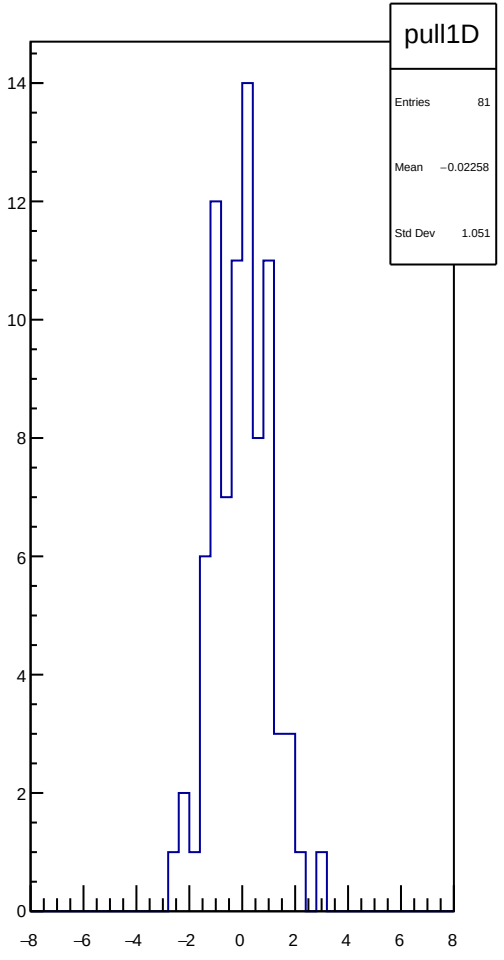

diff_bpm4ecY_rms vs run
χ² / ndf 9666 / 80
p0 6886 ± 5.556
8500
8000
7500
7000
6500
6000

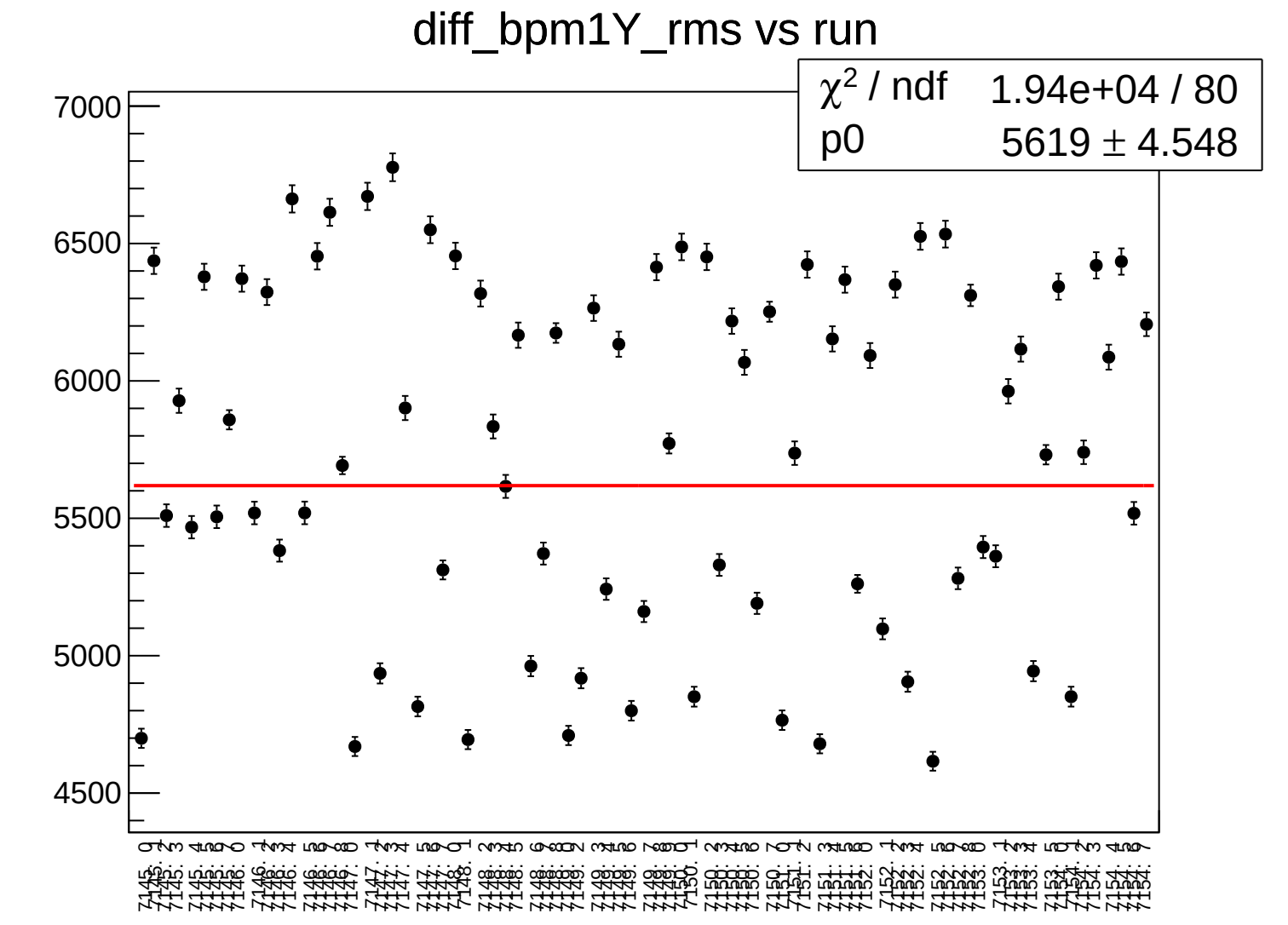

diff_bpm1X_mean vs run
χ² / ndf 90.03 / 80
p0 −28.02 ± 10.03
pull
Entries 81
Mean 2409
Std Dev 2372

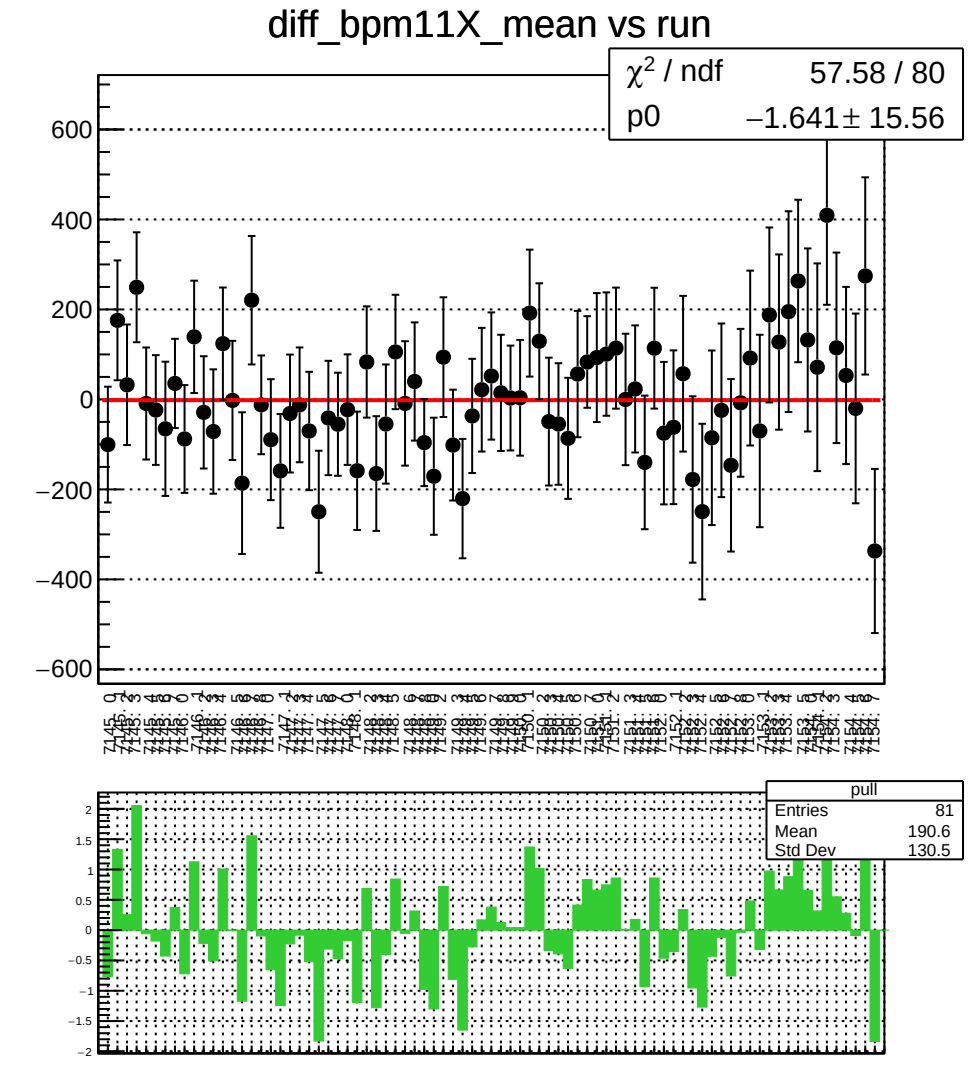

pull1D
Entries 81
Mean 0.001288
Std Dev 1.054

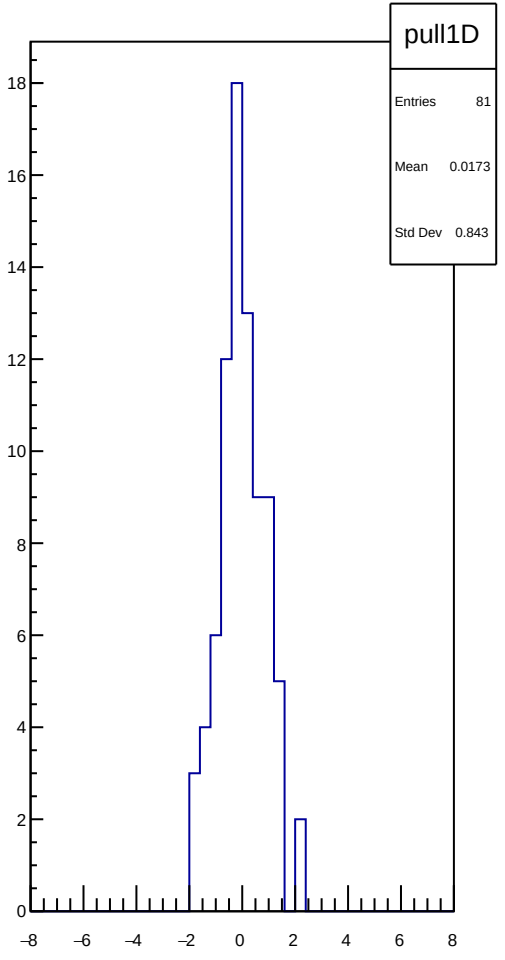

diff_bpm1X_rms vs run
χ^2 / ndf 2309 / 80
p0 8811 ± 7.093
9400
9200
9000
8800
8600
8400
8200
8000

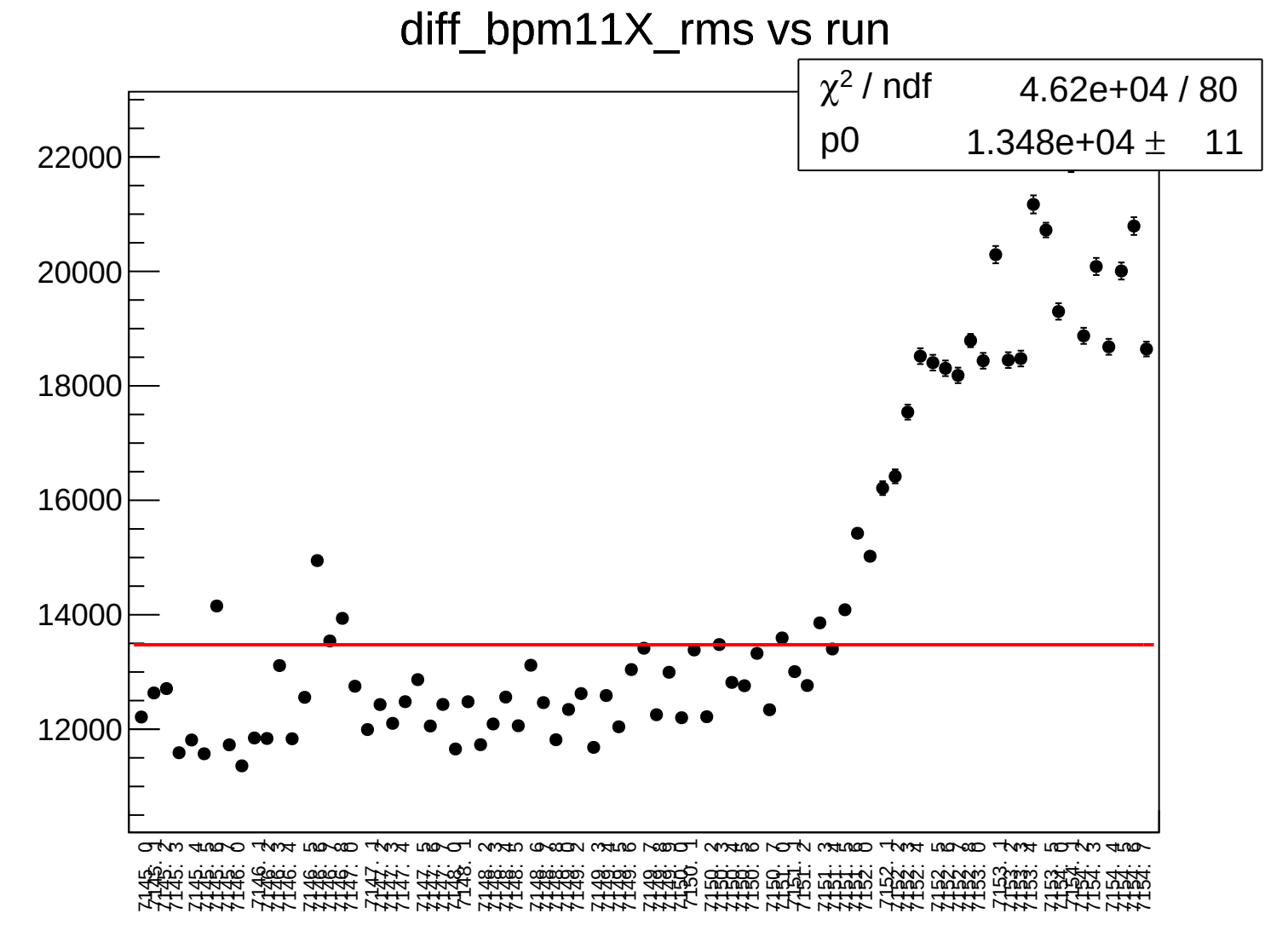

diff_bpm1Y_mean vs run
χ² / ndf 89.46 / 80
p0 7.157 ± 6.432
pull
Entries 81
Mean −106.6
Std Dev 132.7

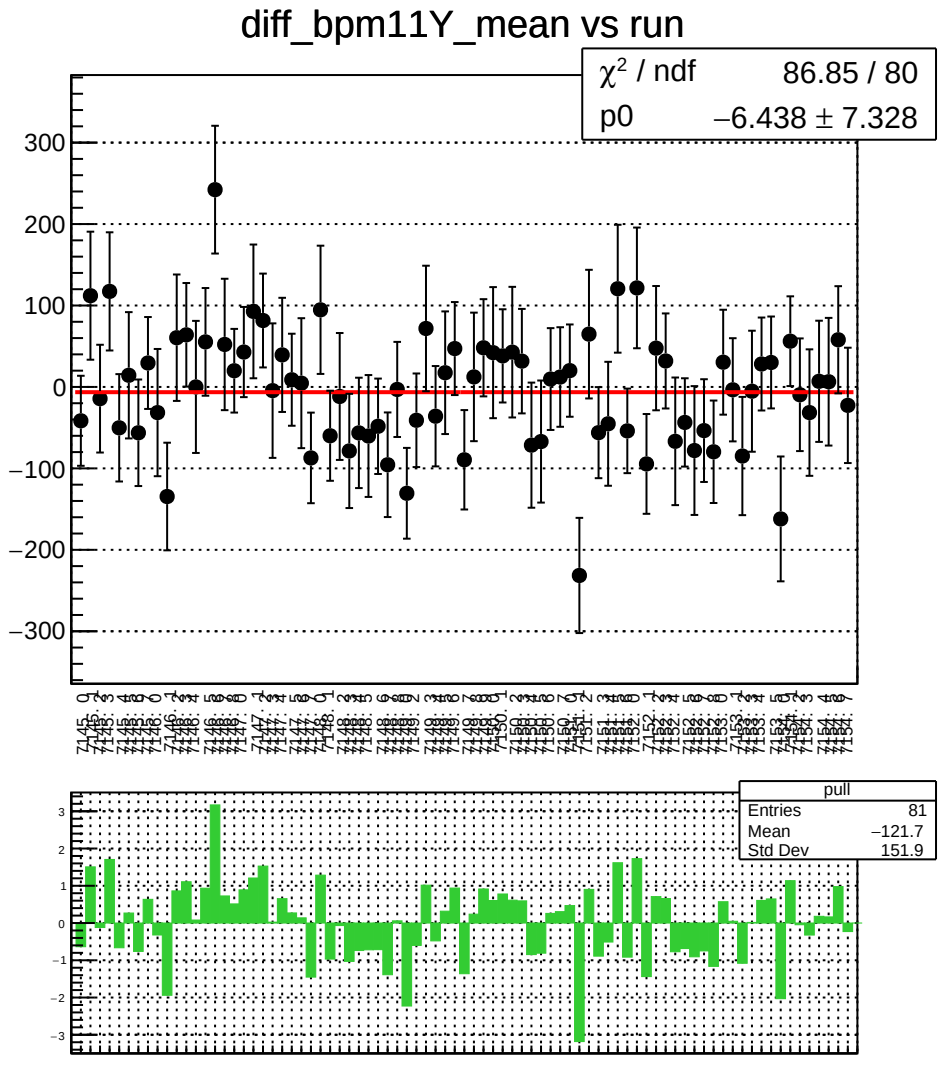

pull1D
Entries 81
Mean −0.02258
Std Dev 1.051

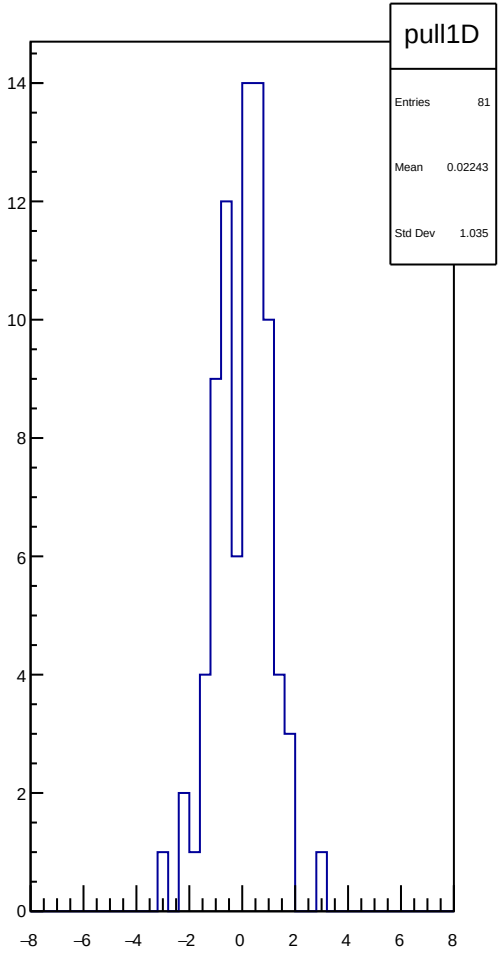

diff_bpm1Y_rms vs run
χ² / ndf 1.94e+04 / 80
p0 5619 ± 4.548
7000
6500
6000
5500
5000
4500

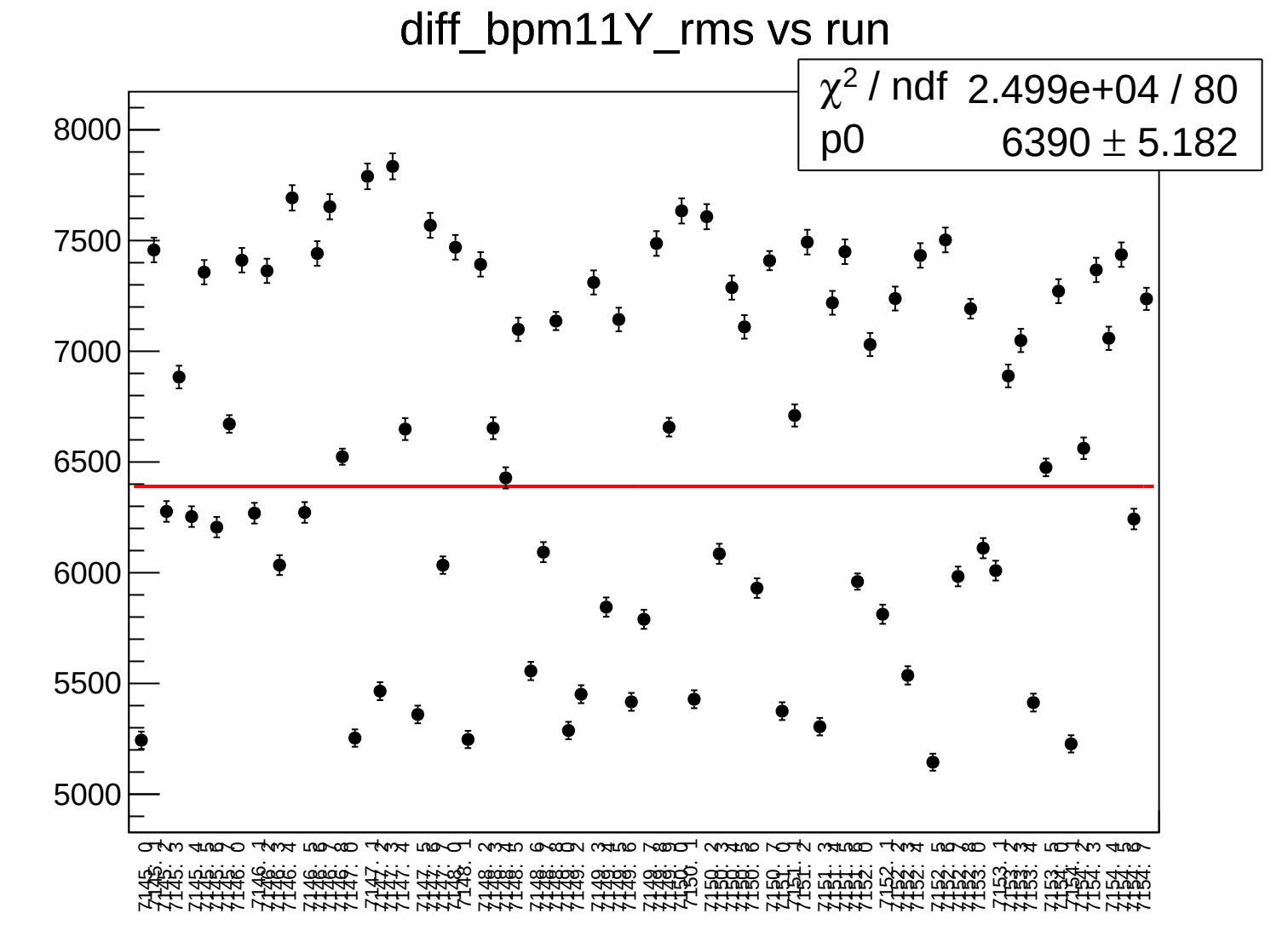

diff_bpm11X_mean vs run
χ² / ndf 57.58 / 80
p0 −1.641 ± 15.56
pull
Entries 81
Mean 190.6
Std Dev 130.5

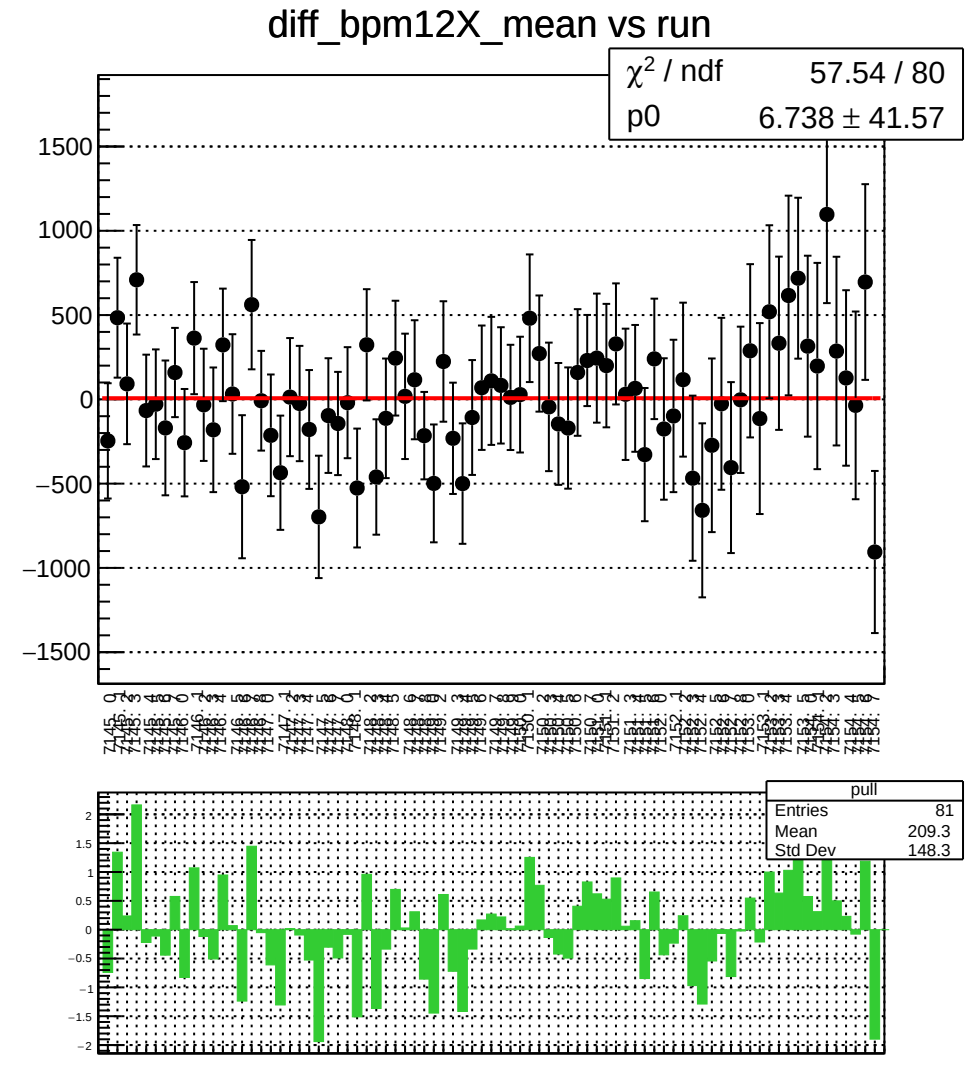

pull1D
Entries 81
Mean 0.0173
Std Dev 0.843

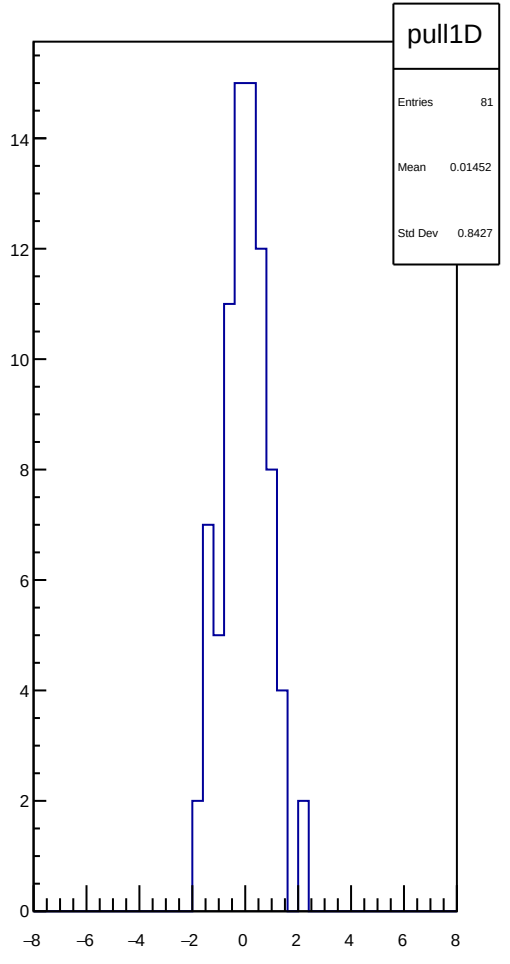

diff_bpm11X_rms vs run
χ² / ndf 4.62e+04 / 80
p0 1.348e+04 ± 11
22000
20000
18000
16000
14000
12000

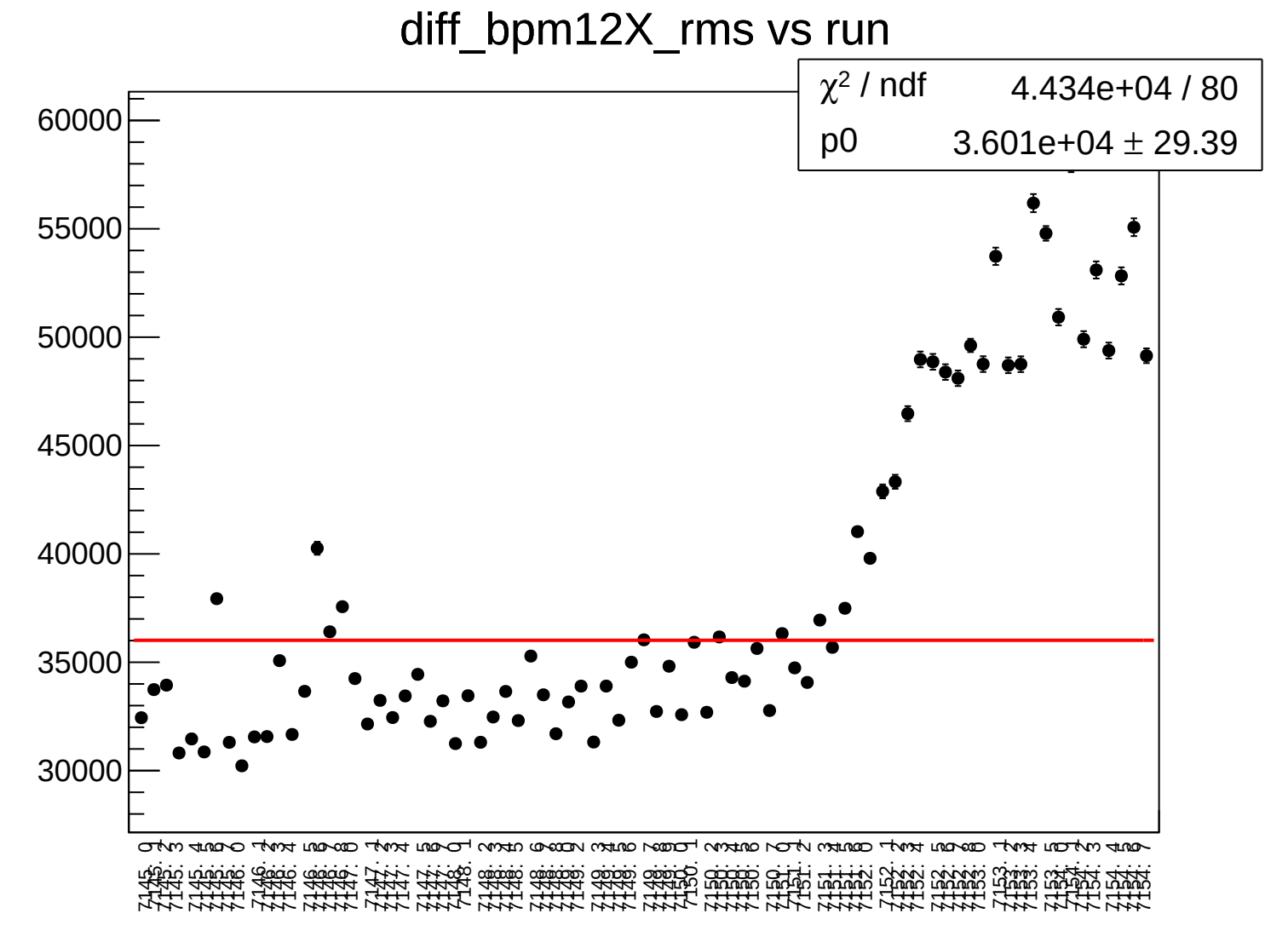

diff_bpm11Y_mean vs run
χ² / ndf 86.85 / 80
p0 −6.438 ± 7.328
pull
Entries 81
Mean −121.7
Std Dev 151.9

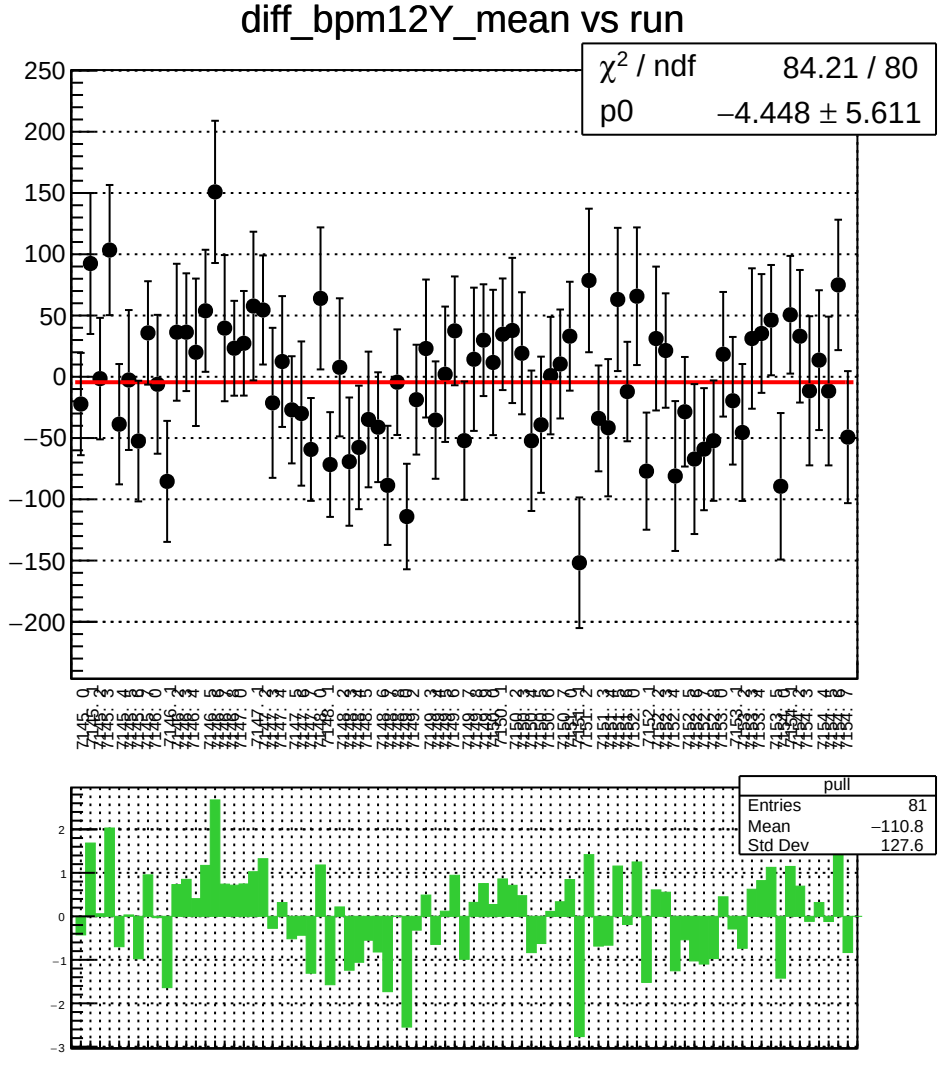

pull1D
Entries 81
Mean 0.02243
Std Dev 1.035

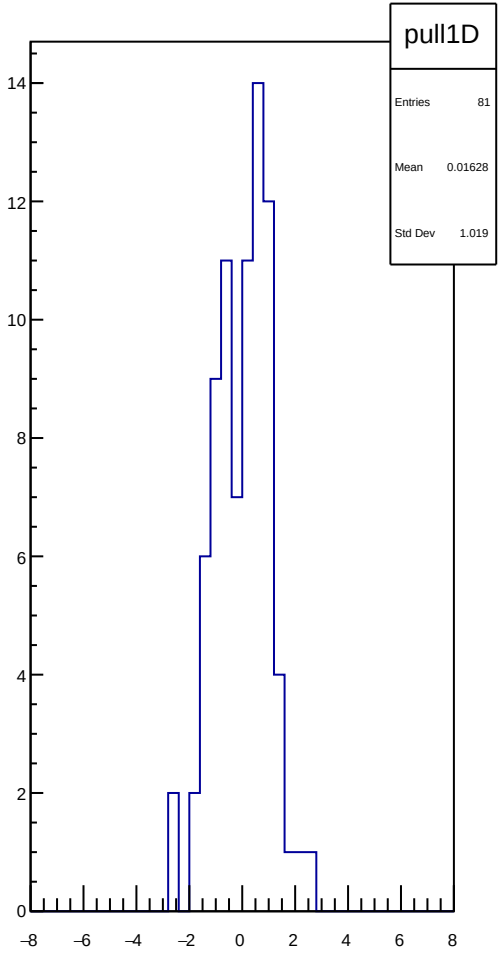

diff_bpm11Y_rms vs run
χ² / ndf 2.499e+04 / 80
p0 6390 ± 5.182
8000
7500
7000
6500
6000
5500
5000

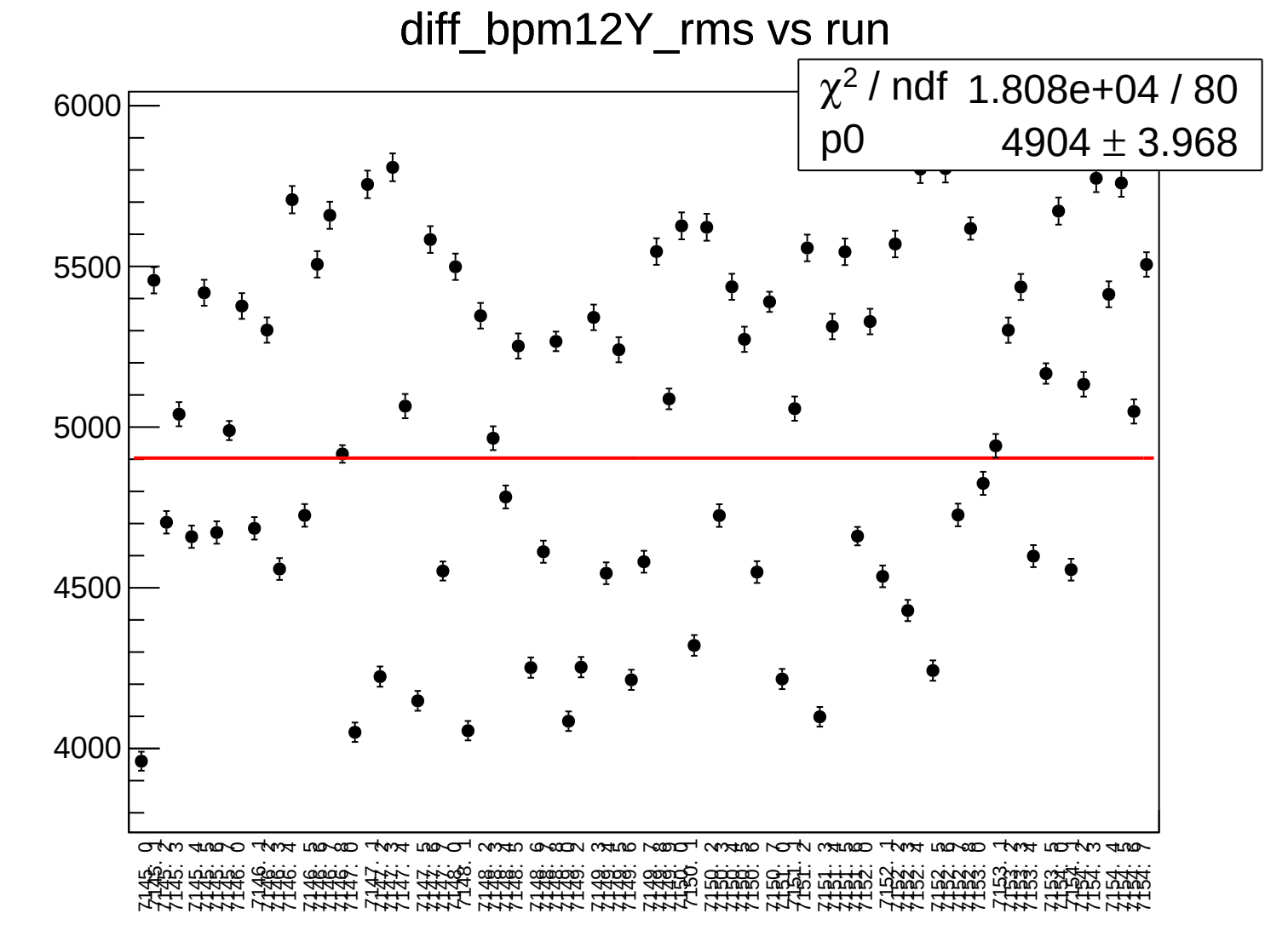

diff_bpm12X_mean vs run
χ² / ndf 57.54 / 80
p0 6.738 ± 41.57
pull
Entries 81
Mean 209.3
Std Dev 148.3

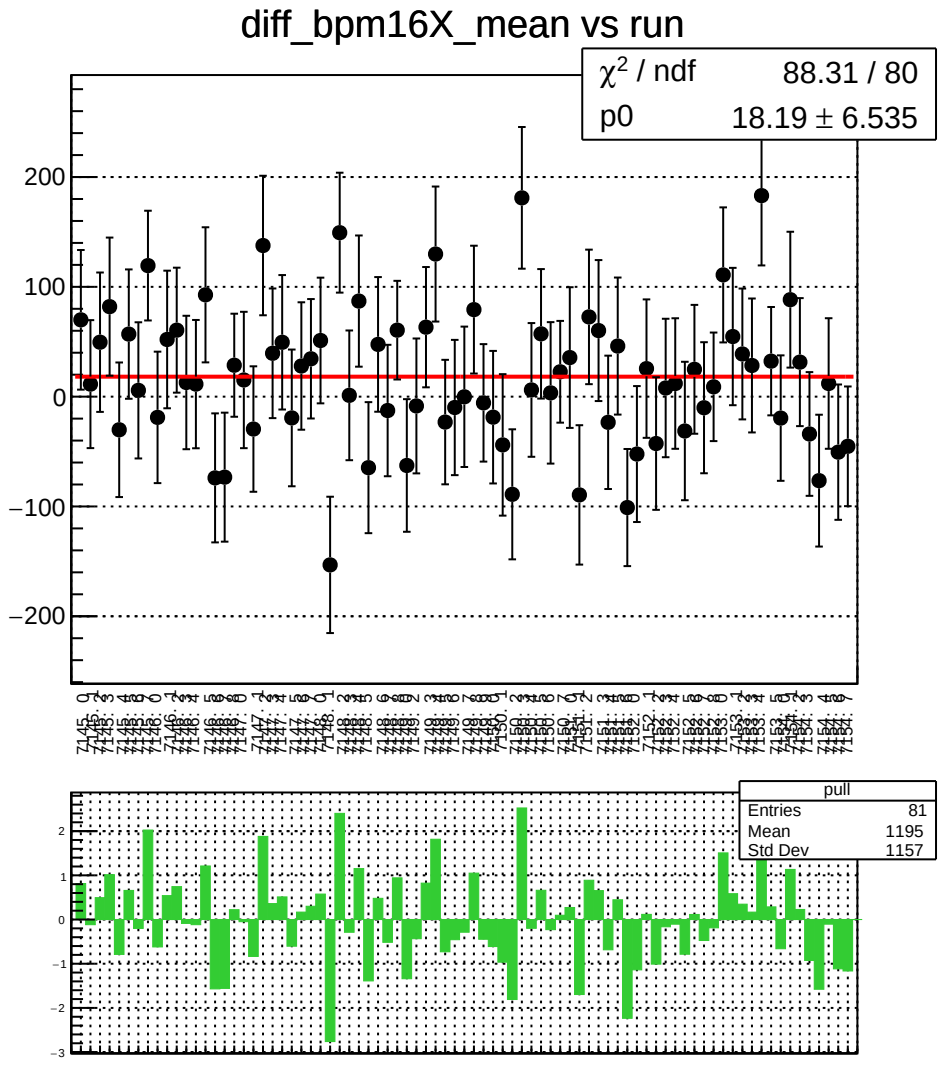

pull1D
Entries 81
Mean 0.01452
Std Dev 0.8427

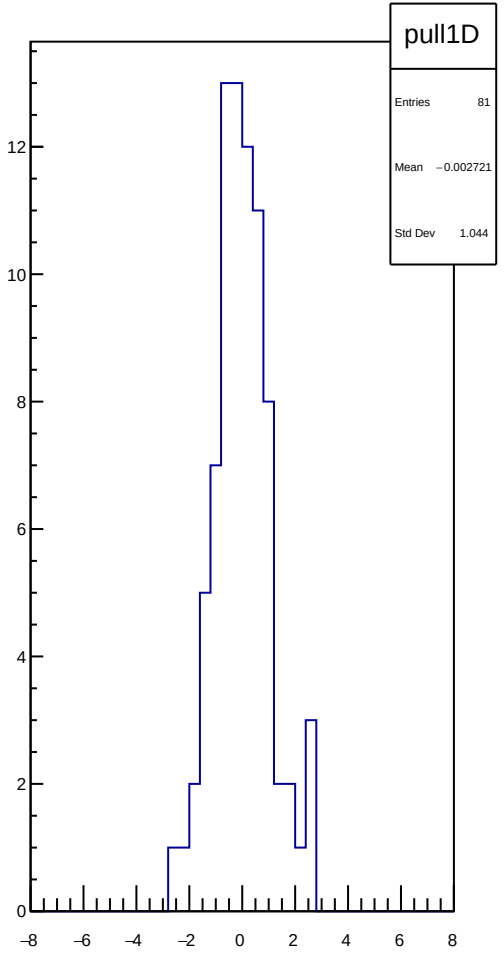

diff_bpm12X_rms vs run
χ² / ndf 4.434e+04 / 80
p0 3.601e+04 ± 29.39
60000
55000
50000
45000
40000
35000
30000

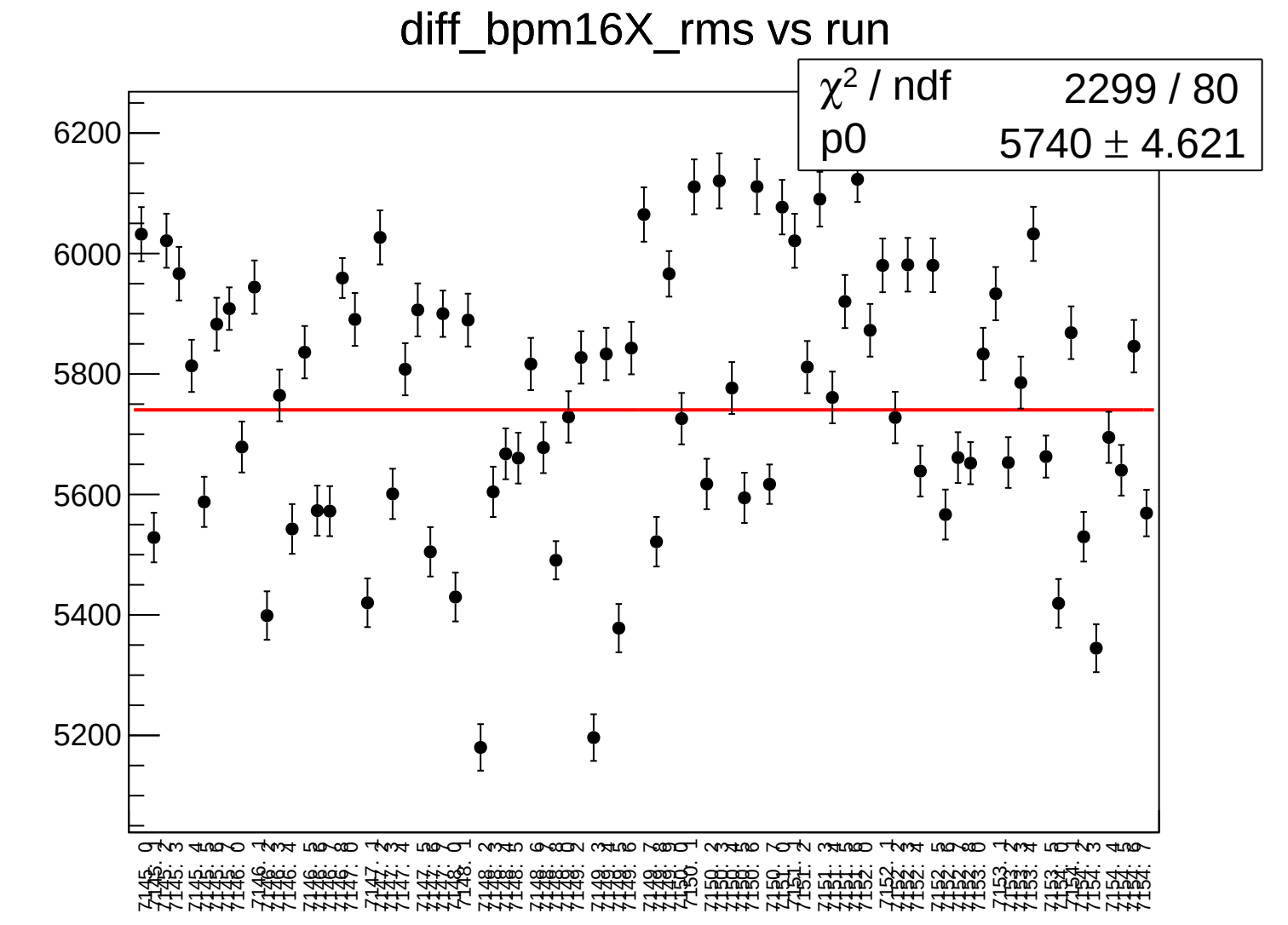

diff_bpm12Y_mean vs run
χ² / ndf 84.21 / 80
p0 −4.448 ± 5.611
pull
Entries 81
Mean −110.8
Std Dev 127.6

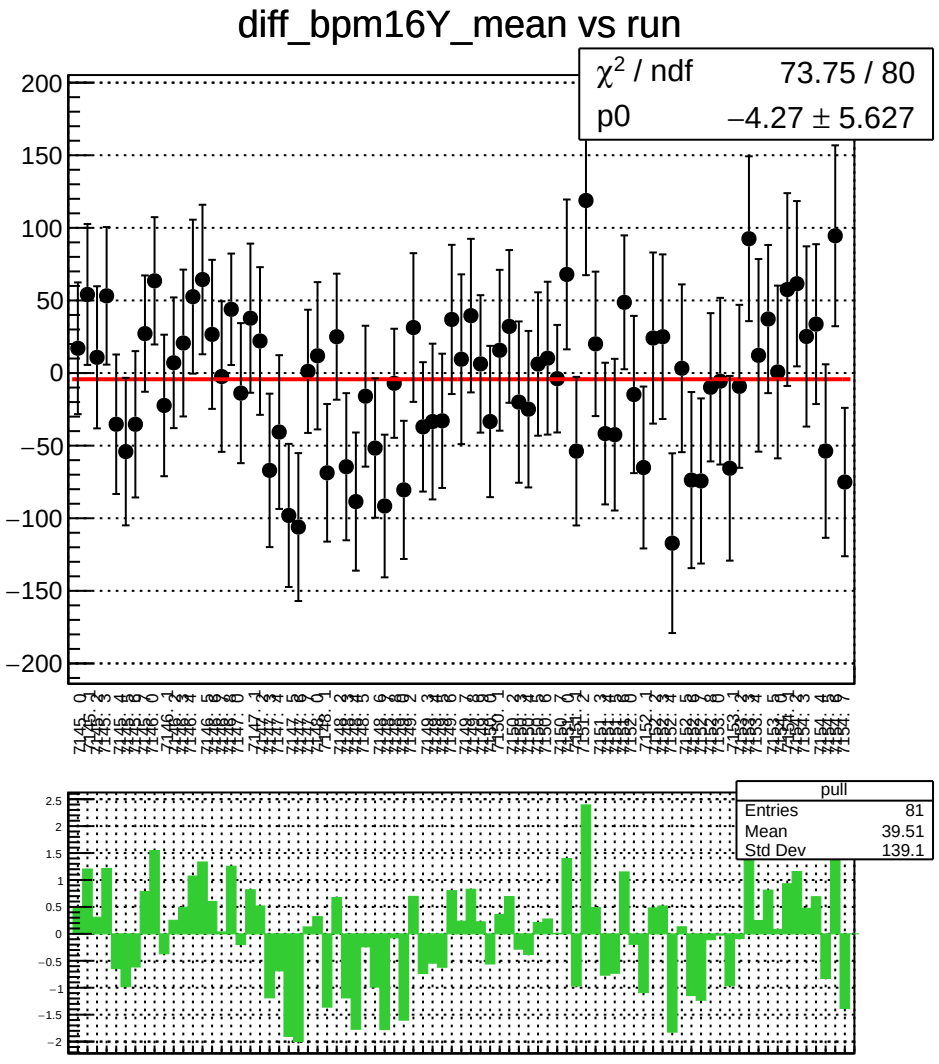

pull1D
Entries 81
Mean 0.01628
Std Dev 1.019

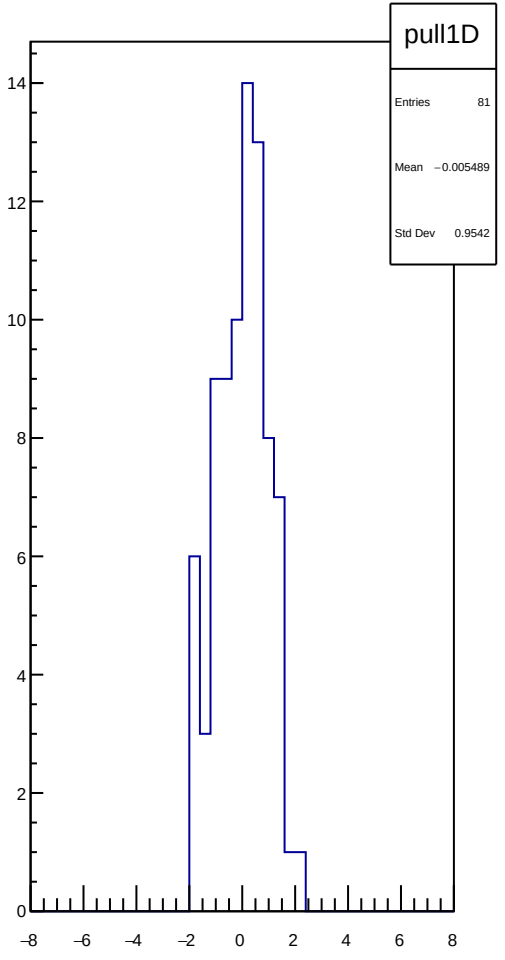

diff_bpm12Y_rms vs run
χ² / ndf 1.808e+04 / 80
p0 4904 ± 3.968
6000
5500
5000
4500
4000

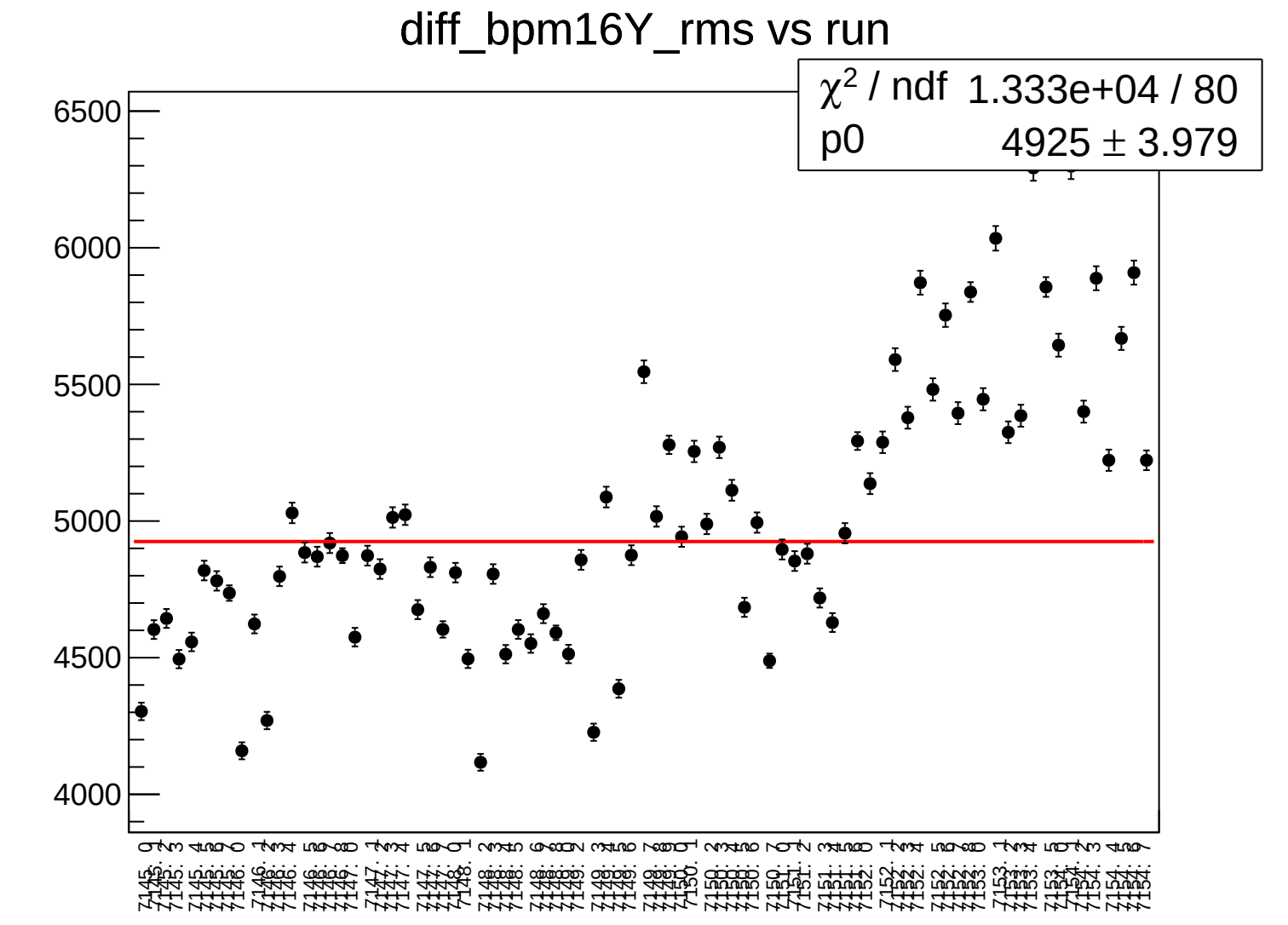

diff_bpm16X_mean vs run
χ² / ndf 88.31 / 80
p0 18.19 ± 6.535
200
100
0
−100
−200
pull
Entries 81
Mean 1195
Std Dev 1157
2
1
0
−1
−2
−3

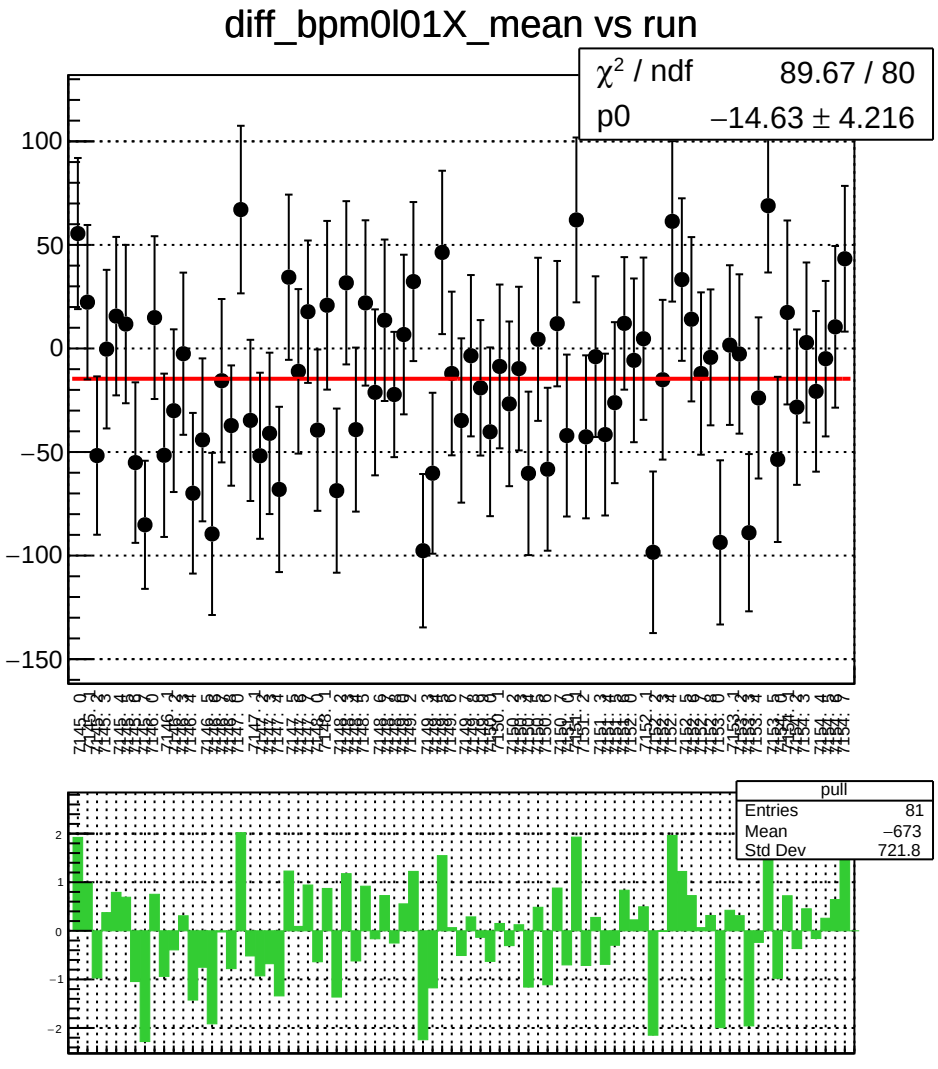

pull1D
Entries 81
Mean −0.002721
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

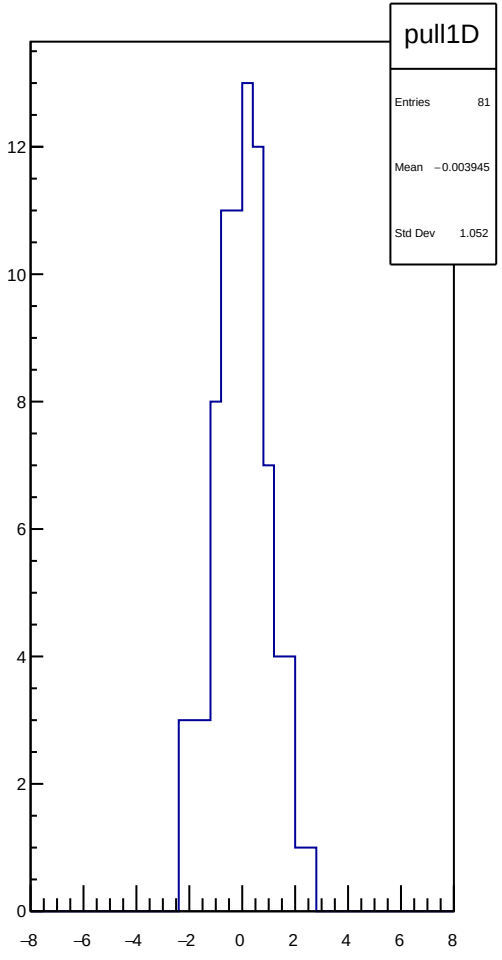

diff_bpm16X_rms vs run
χ² / ndf 2299 / 80
p0 5740 ± 4.621
6200
6000
5800
5600
5400
5200

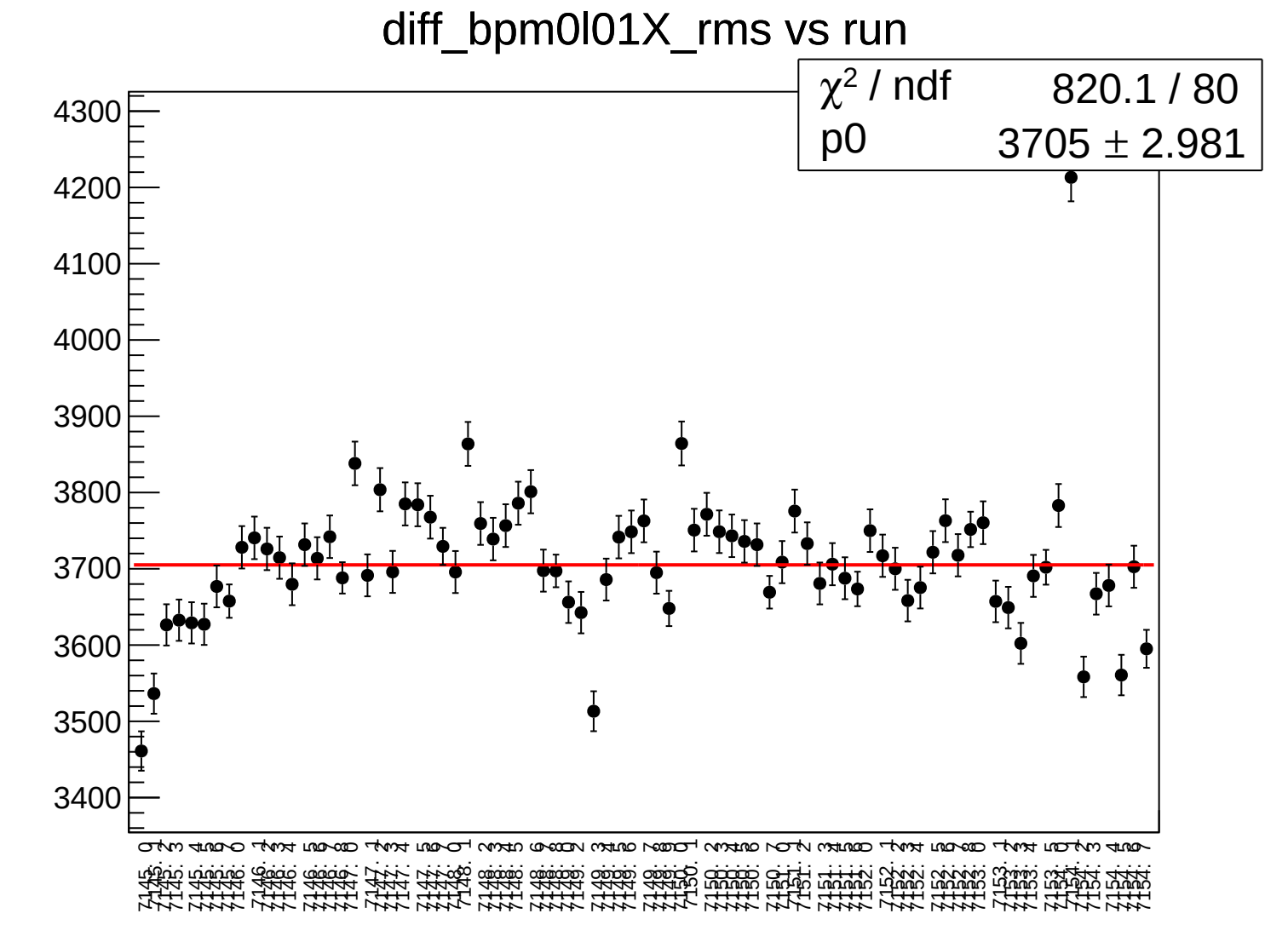

diff_bpm16Y_mean vs run
χ^2 / ndf 73.75 / 80
p0 −4.27 ± 5.627
pull
Entries 81
Mean 39.51
Std Dev 139.1

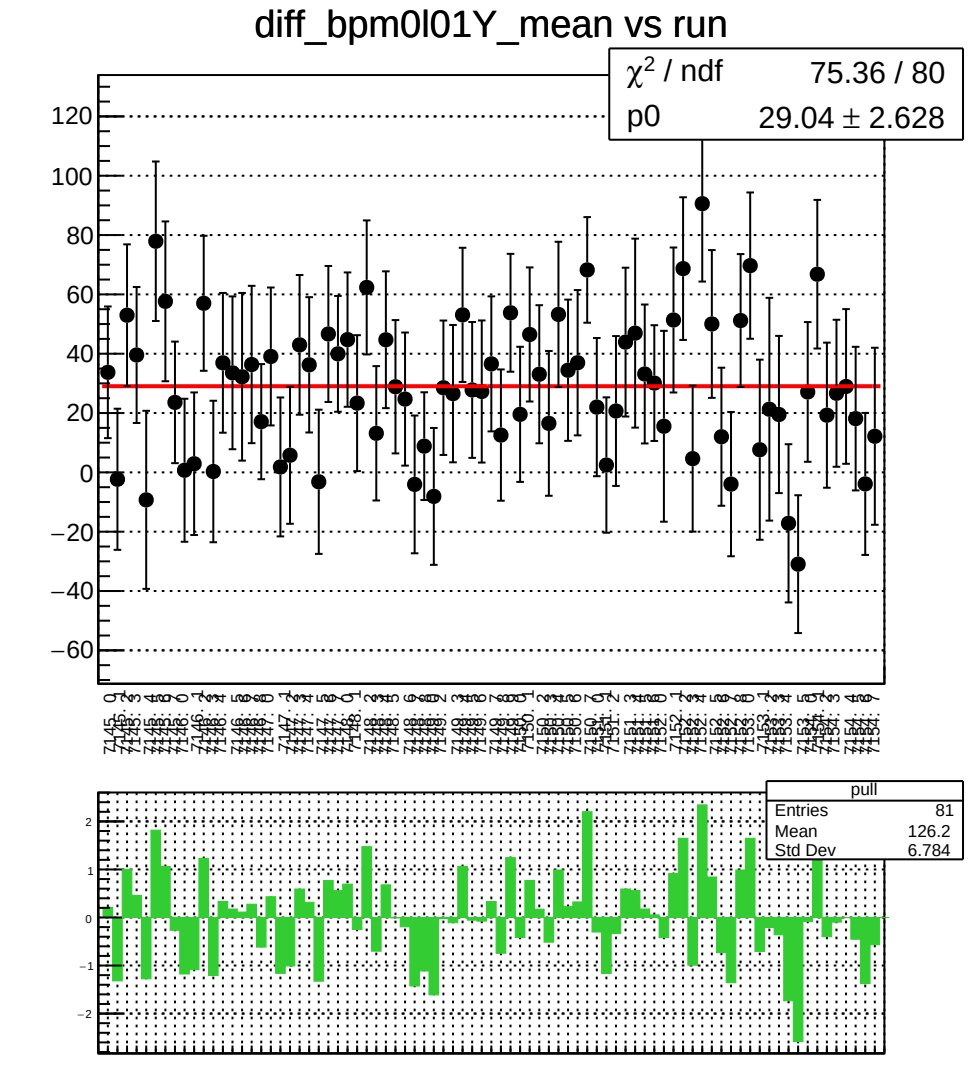

pull1D
Entries 81
Mean −0.005489
Std Dev 0.9542

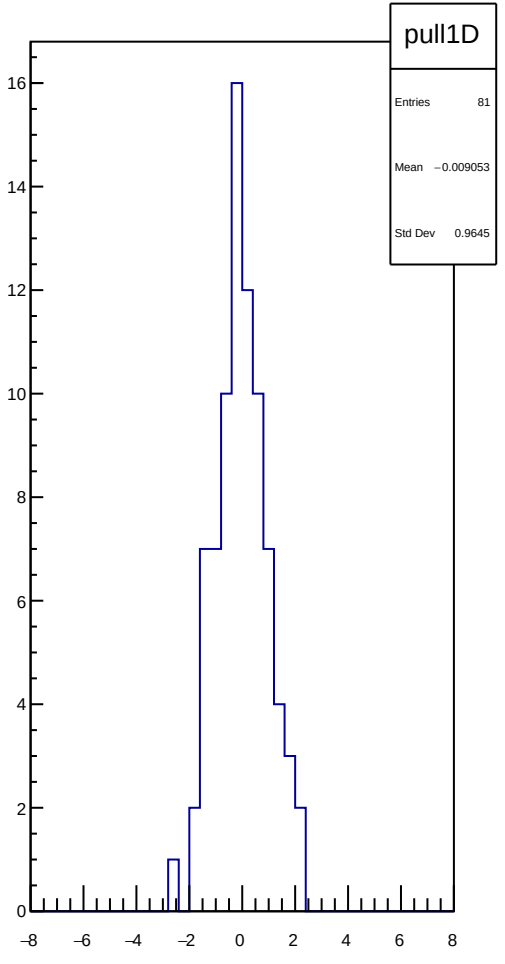

diff_bpm16Y_rms vs run
χ² / ndf 1.333e+04 / 80
p0 4925 ± 3.979
6500
6000
5500
5000
4500
4000

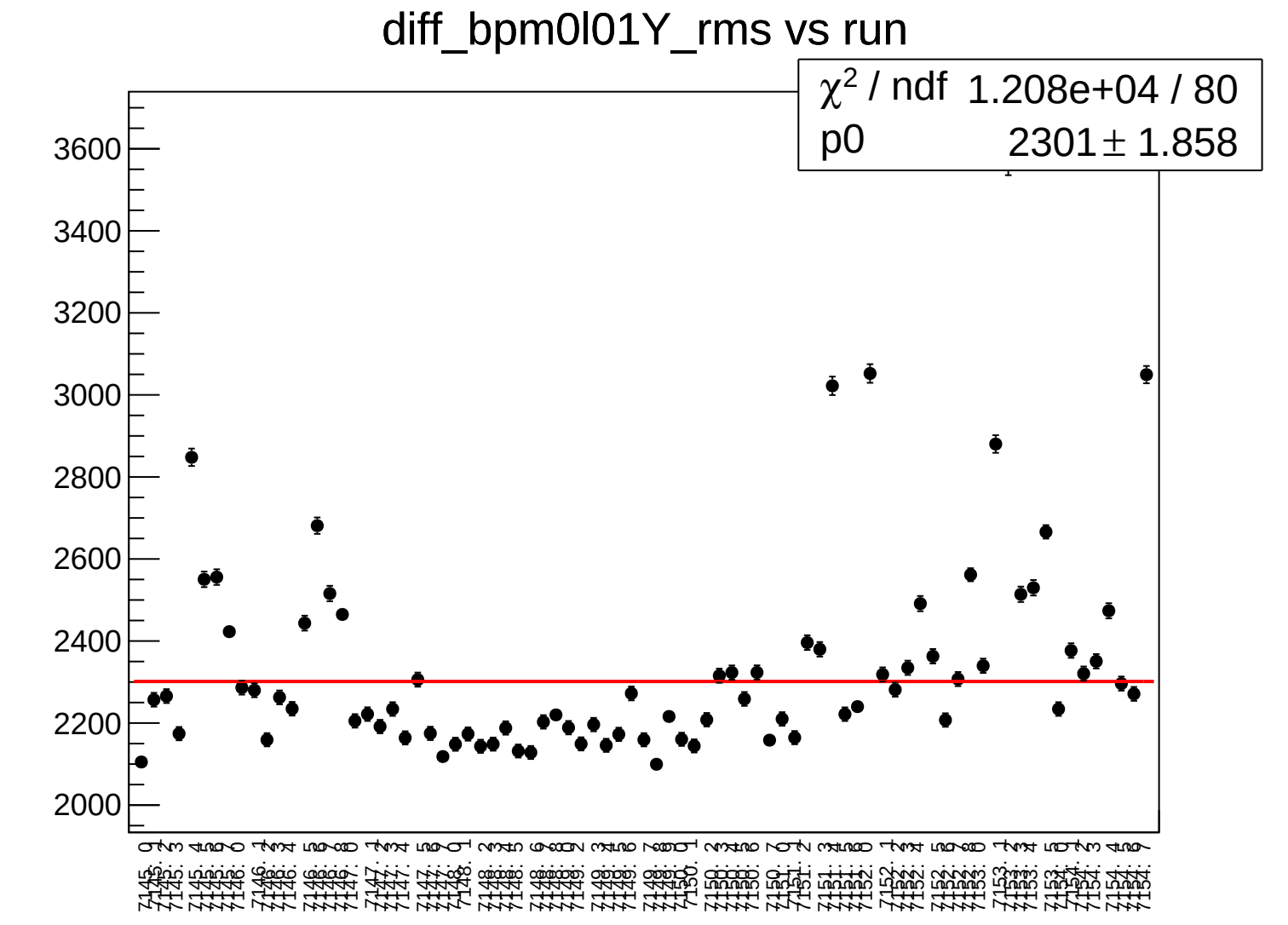

diff_bpm0l01X_mean vs run
χ² / ndf 89.67 / 80
p0 −14.63 ± 4.216
pull
Entries 81
Mean −673
Std Dev 721.8

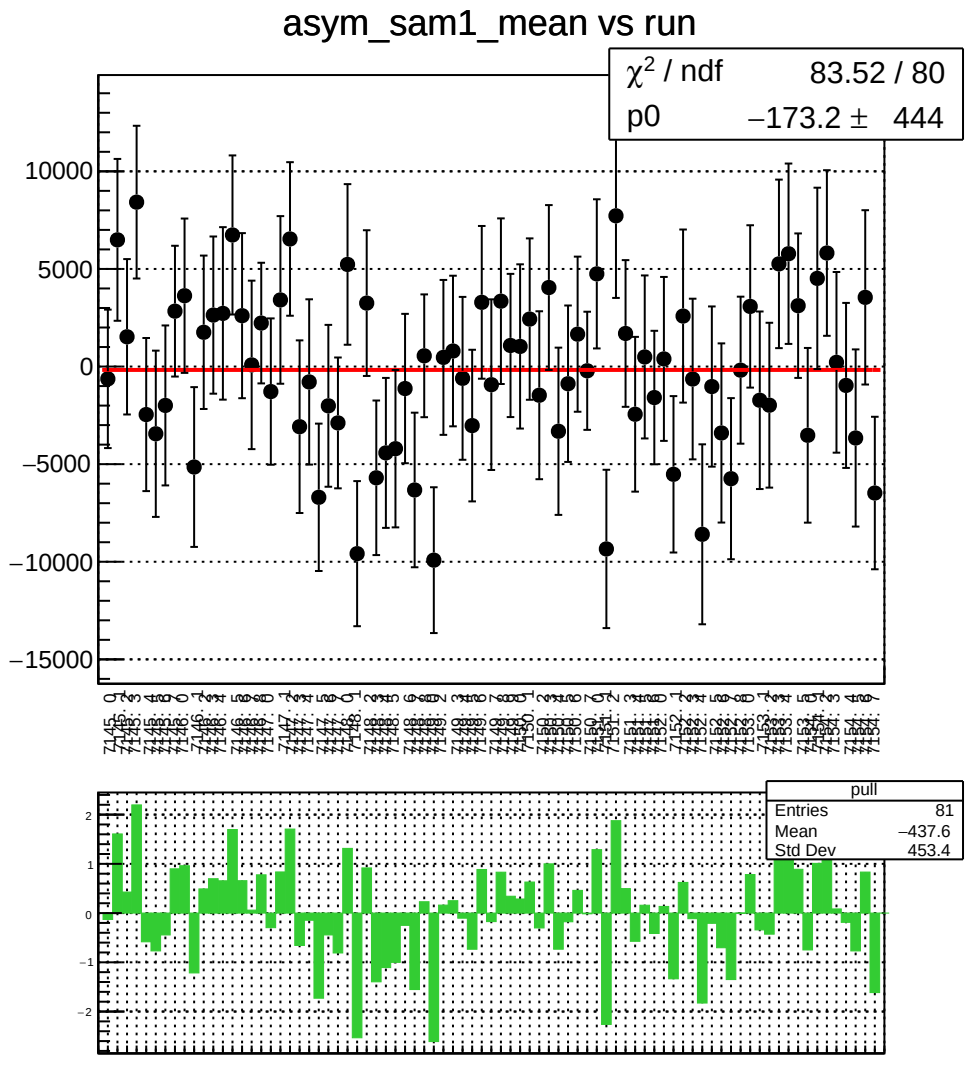

pull1D
Entries 81
Mean −0.003945
Std Dev 1.052

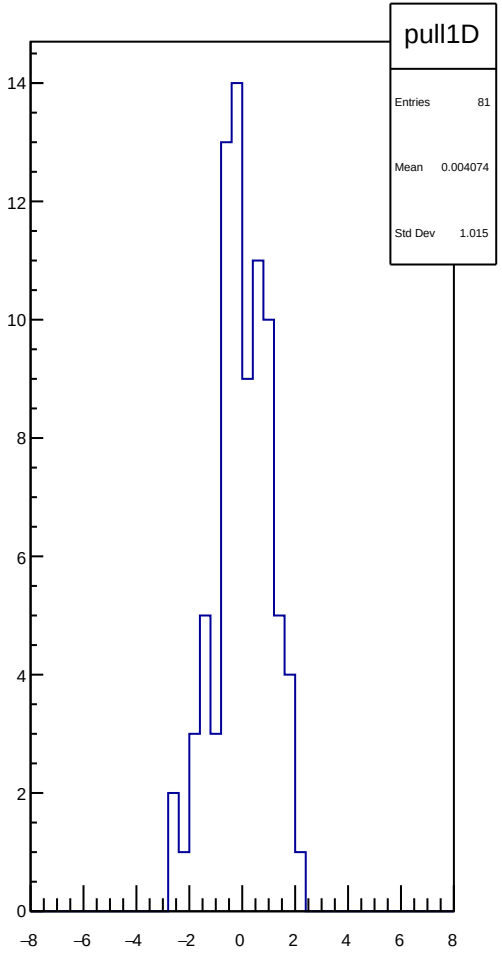

diff_bpm0l01X_rms vs run
χ² / ndf 820.1 / 80
p0 3705 ± 2.981
4300
4200
4100
4000
3900
3800
3700
3600
3500
3400

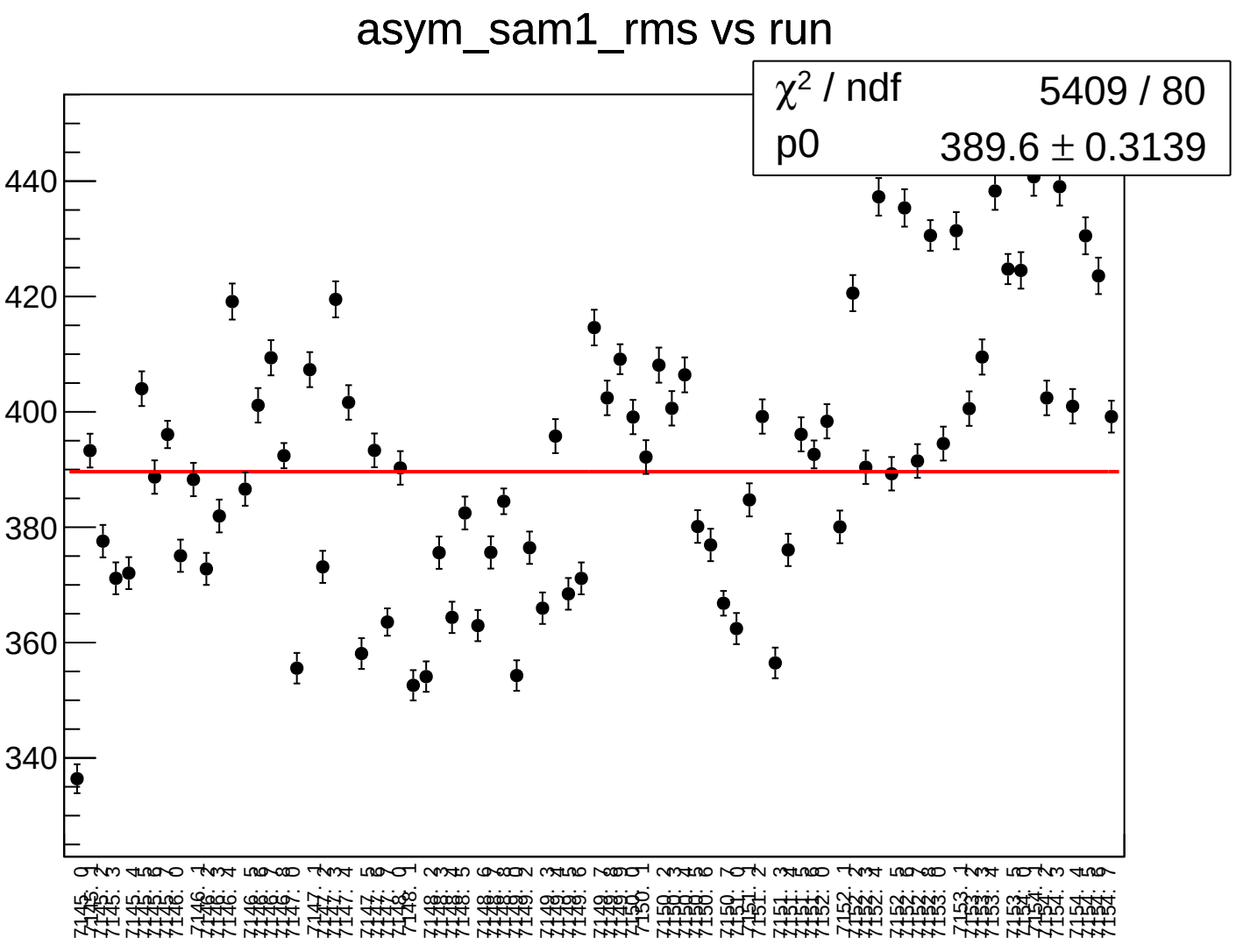

diff_bpm0l01Y_mean vs run
χ^2 / ndf 75.36 / 80
p0 29.04 ± 2.628
pull
Entries 81
Mean 126.2
Std Dev 6.784

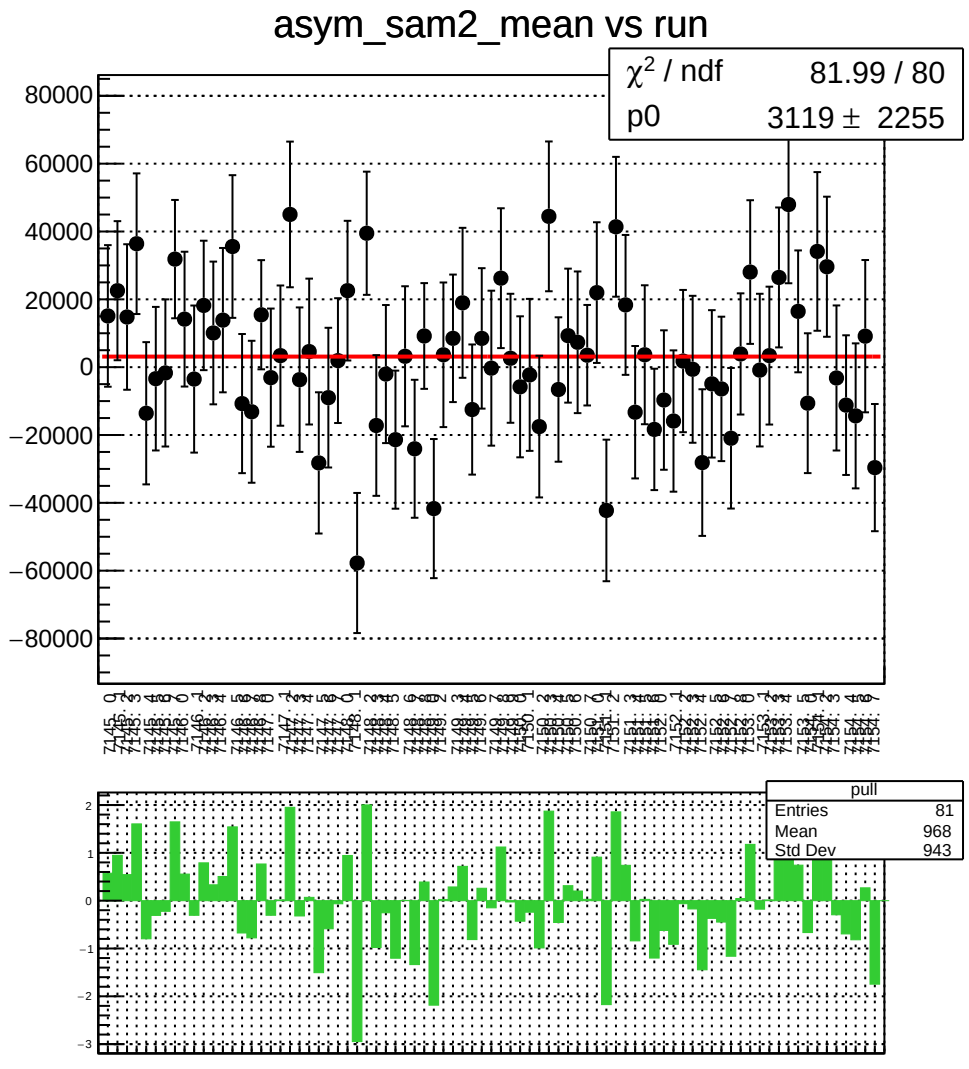

pull1D
Entries 81
Mean −0.009053
Std Dev 0.9645

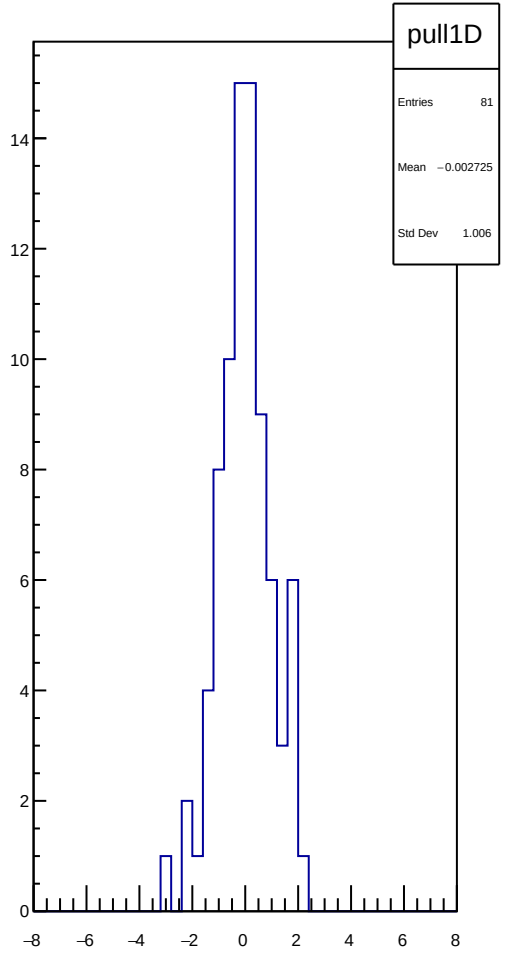

diff_bpm0l01Y_rms vs run
χ² / ndf 1.208e+04 / 80
p0 2301 ± 1.858
3600
3400
3200
3000
2800
2600
2400
2200
2000

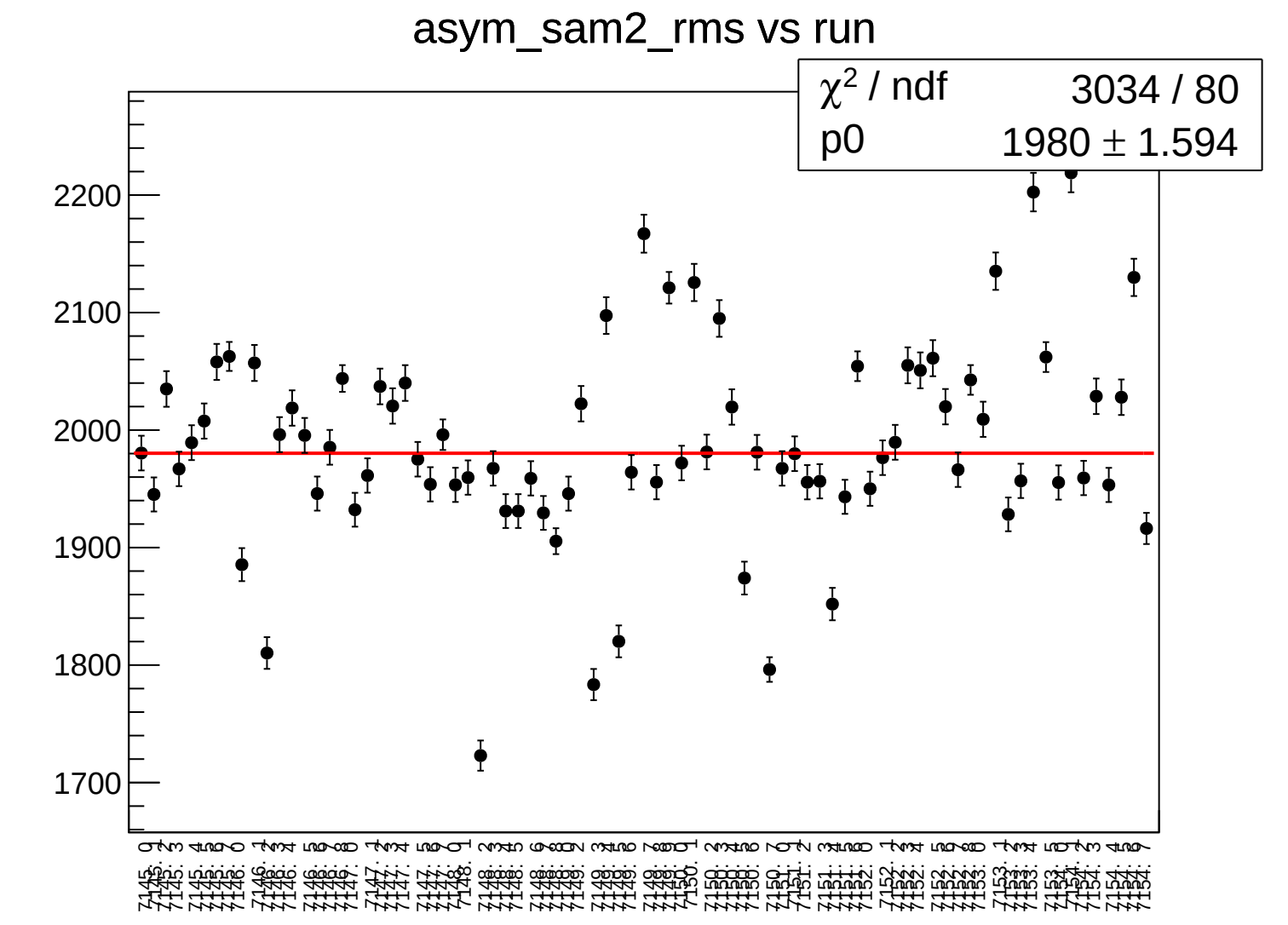

asym_sam1_mean vs run
χ² / ndf 83.52 / 80
p0 −173.2 ± 444
pull
Entries 81
Mean −437.6
Std Dev 453.4

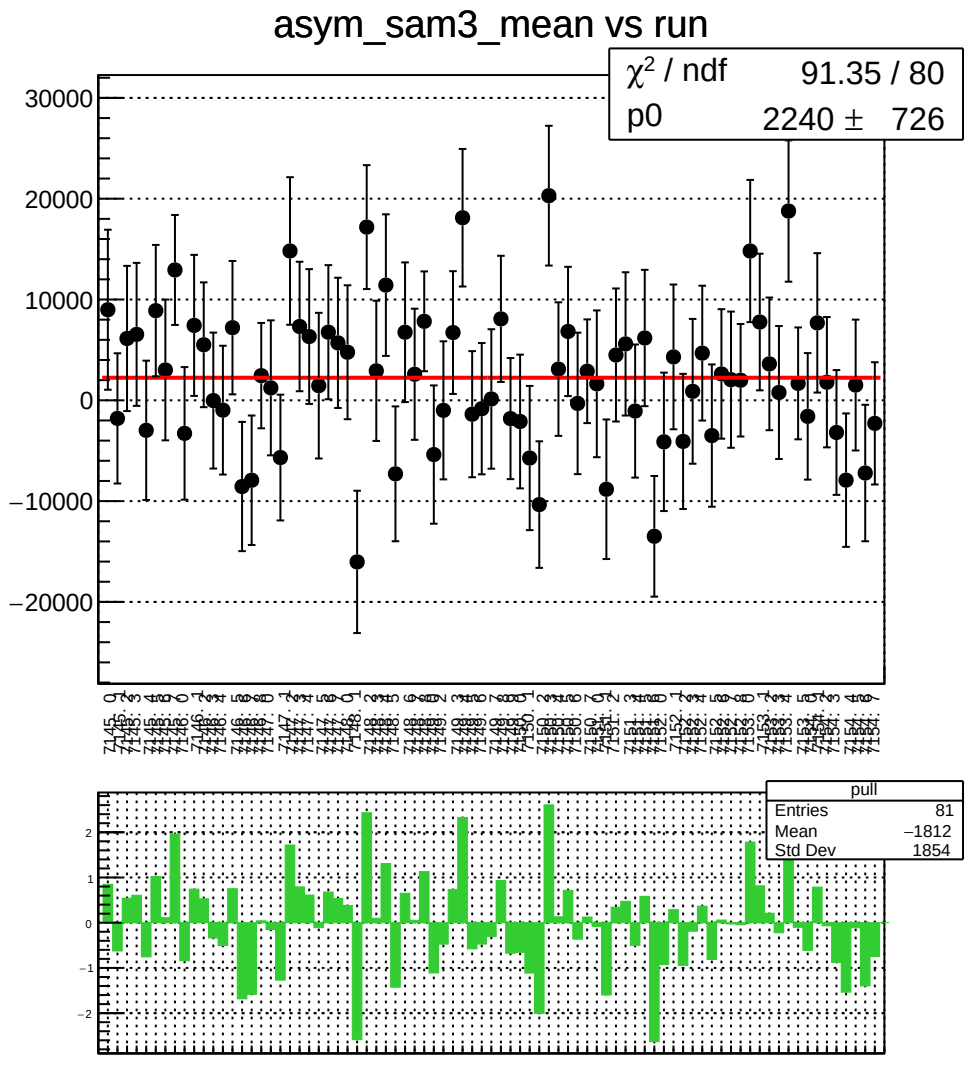

pull1D
Entries 81
Mean 0.004074
Std Dev 1.015

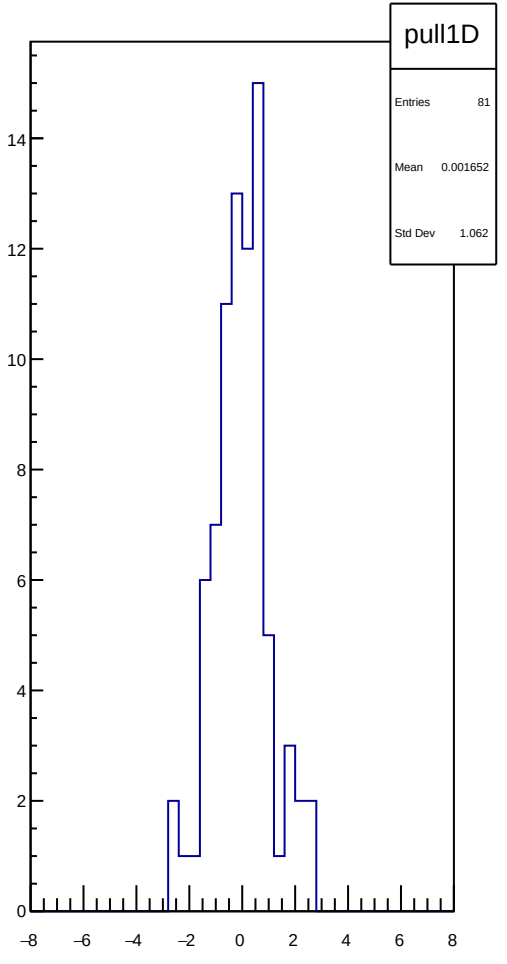

asym_sam1_rms vs run
χ² / ndf 5409 / 80
p0 389.6 ± 0.3139
440
420
400
380
360
340

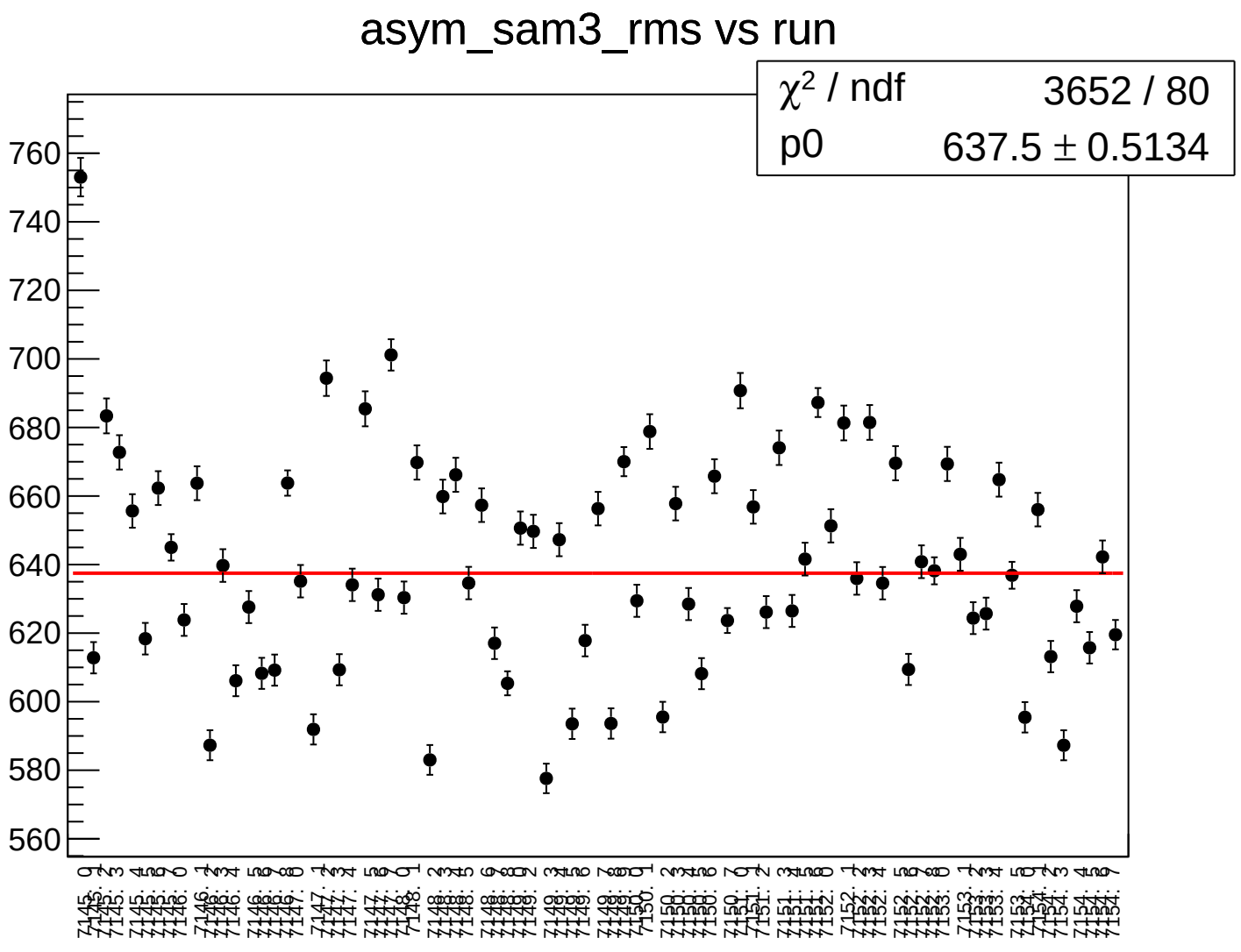

asym_sam2_mean vs run
χ² / ndf 81.99 / 80
p0 3119 ± 2255
pull
Entries 81
Mean 968
Std Dev 943

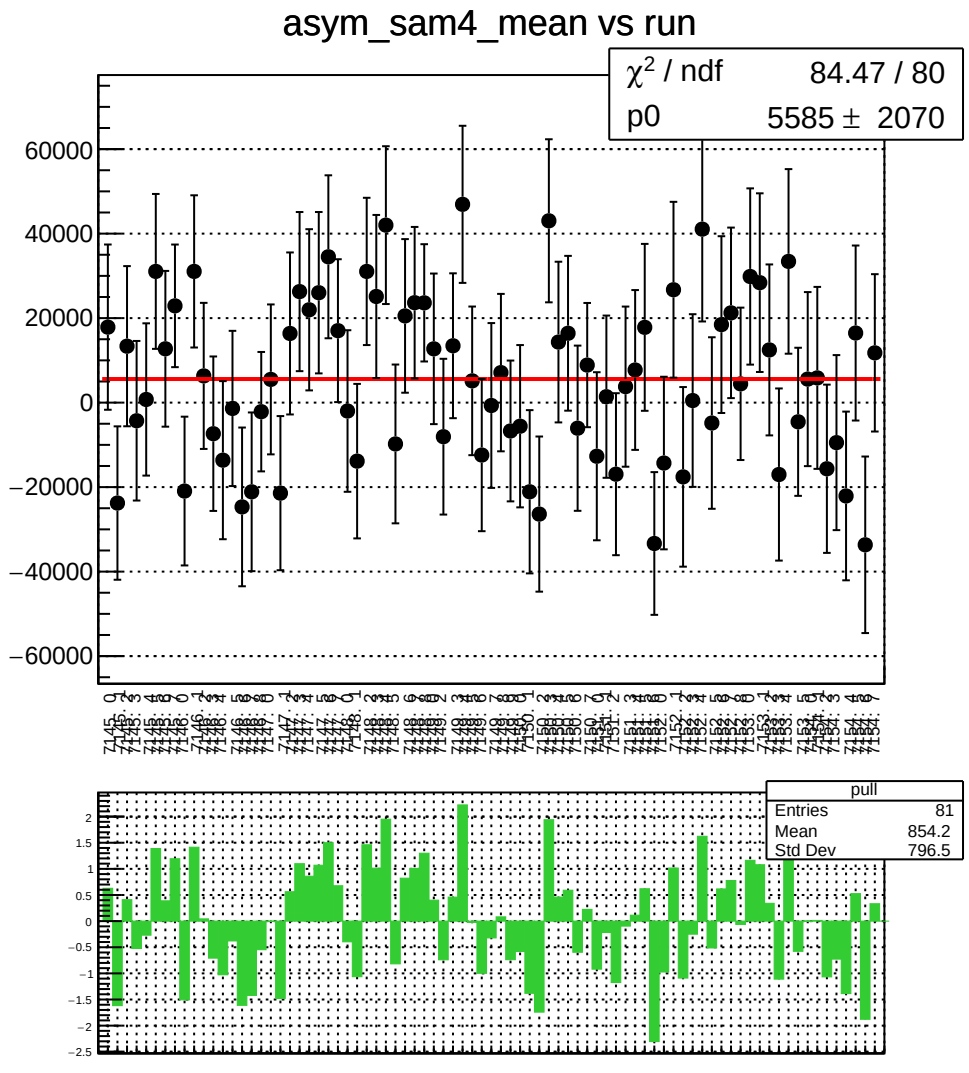

pull1D
Entries 81
Mean −0.002725
Std Dev 1.006

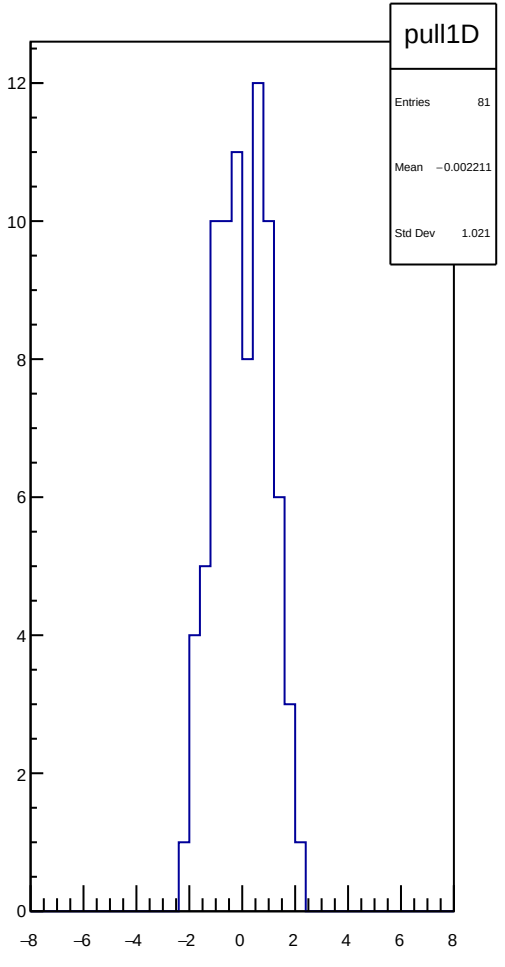

asym_sam2_rms vs run
χ² / ndf 3034 / 80
p0 1980 ± 1.594
2200
2100
2000
1900
1800
1700

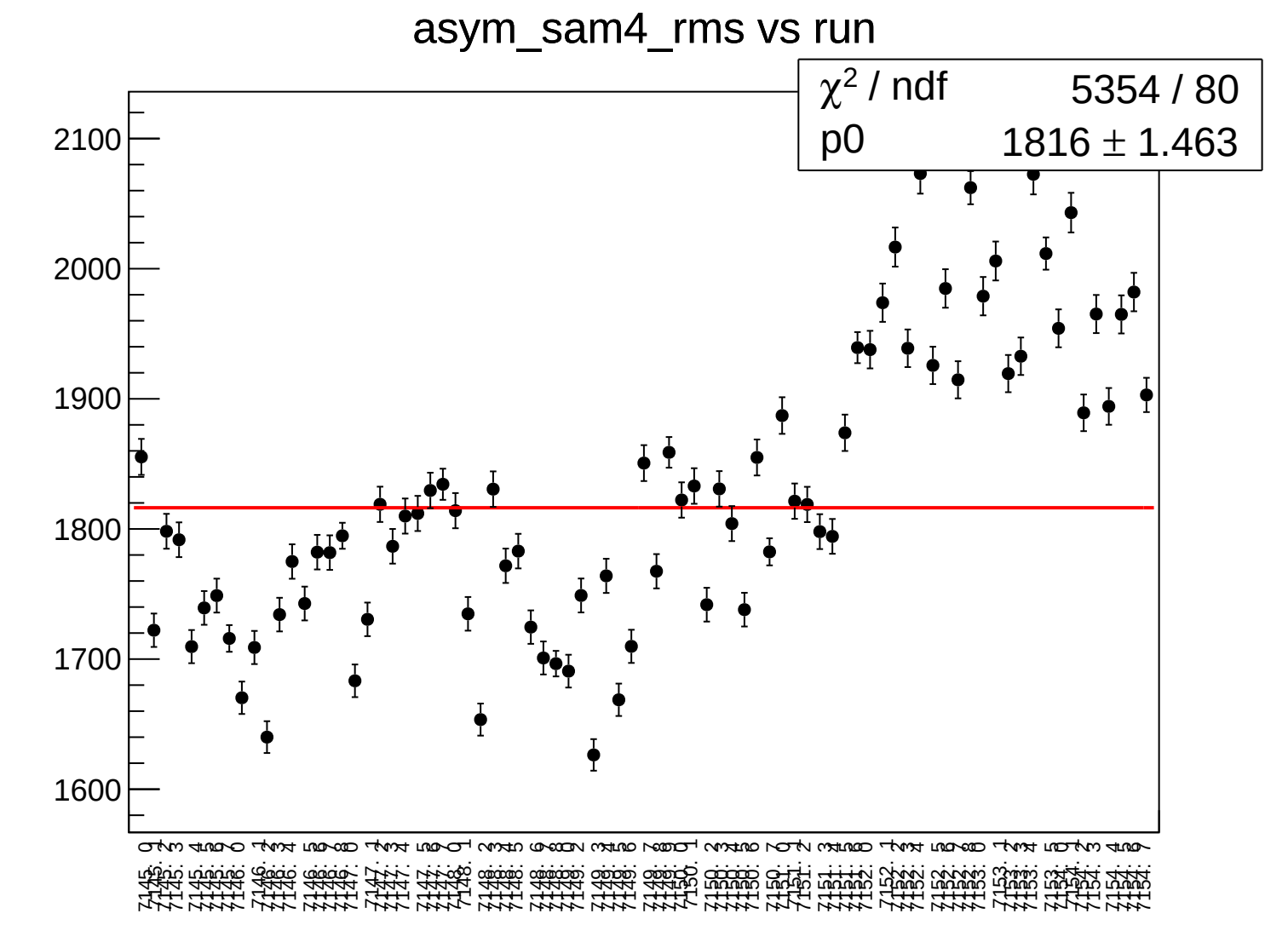

asym_sam3_mean vs run
χ² / ndf 91.35 / 80
p0 2240 ± 726
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −1812
Std Dev 1854
2
1
0
−1
−2

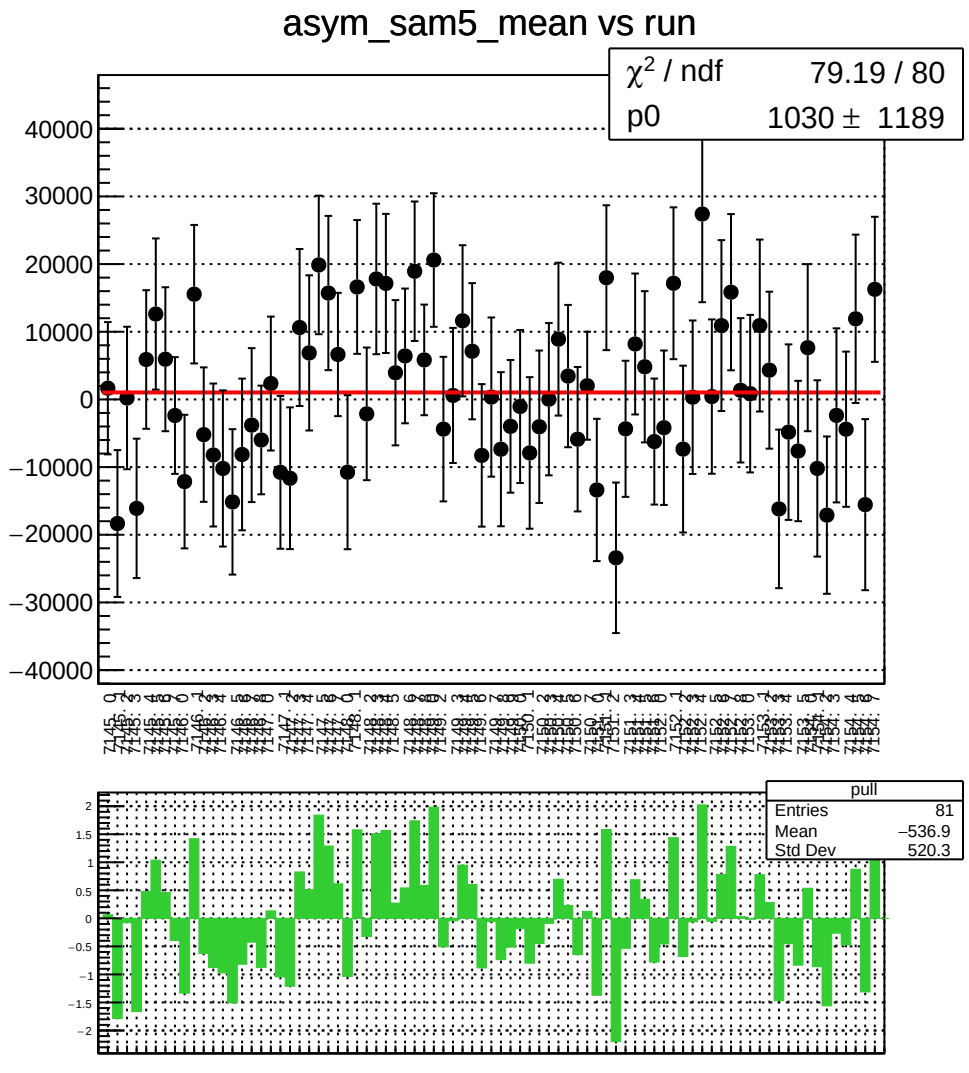

pull1D
Entries 81
Mean 0.001652
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

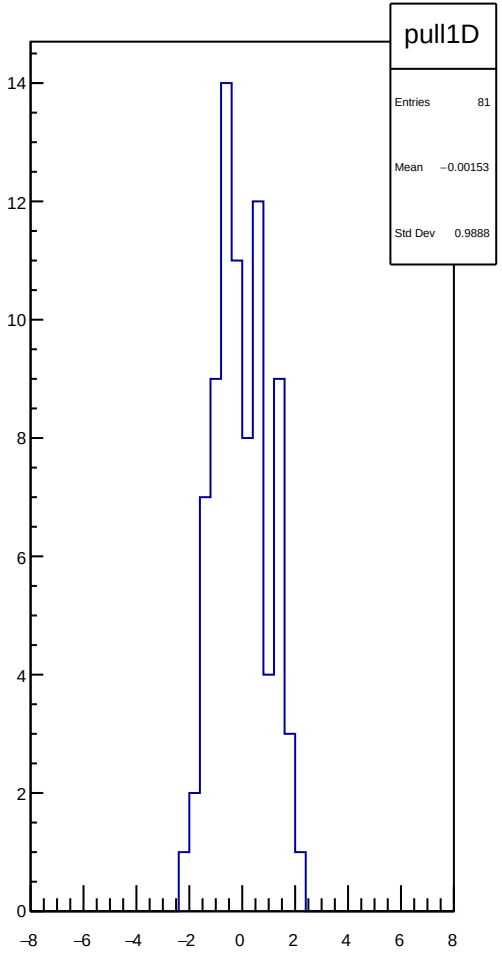

asym_sam3_rms vs run
χ² / ndf 3652 / 80
p0 637.5 ± 0.5134
760
740
720
700
680
660
640
620
600
580
560

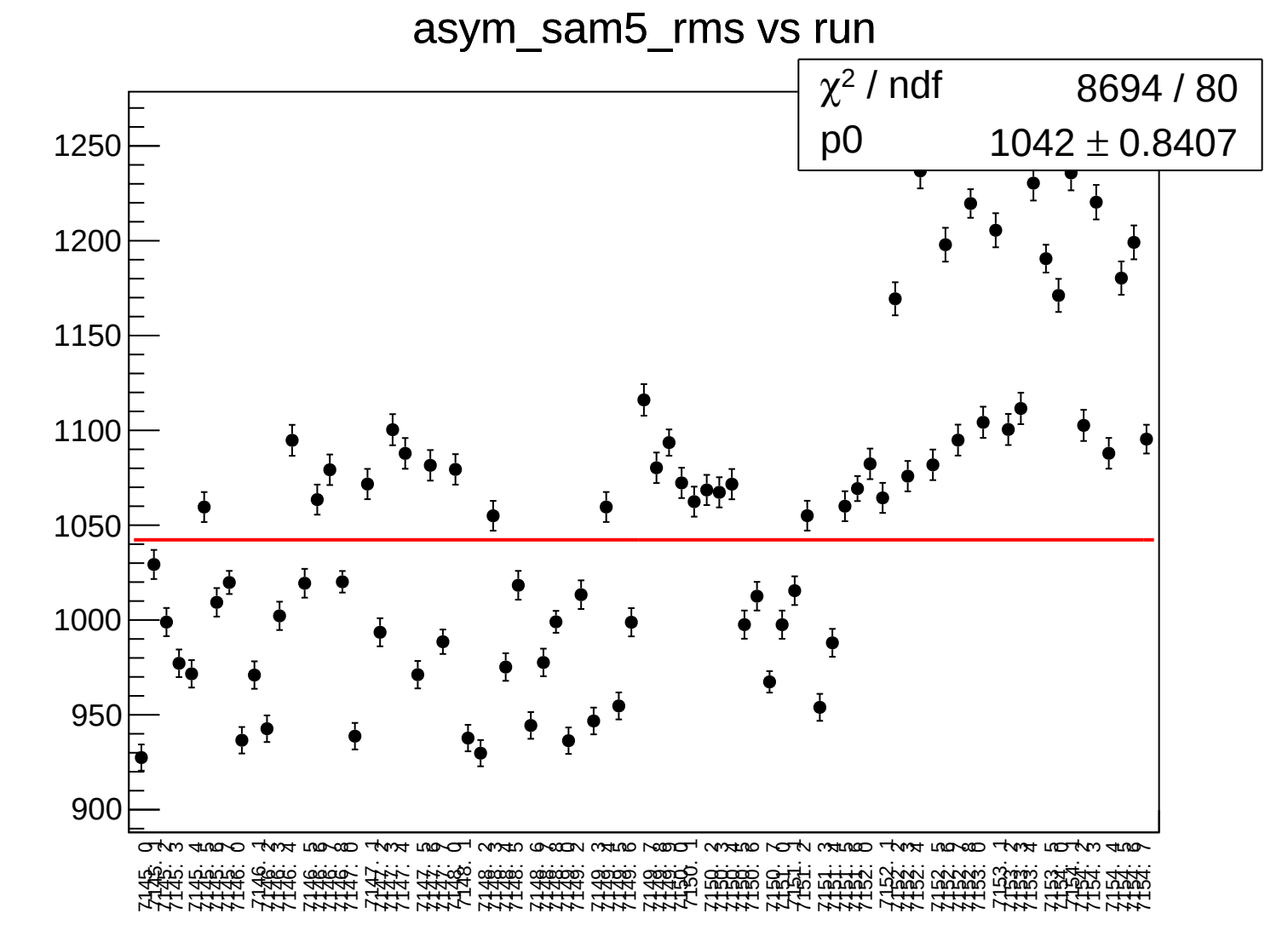

asym_sam4_mean vs run
χ² / ndf 84.47 / 80
p0 5585 ± 2070
pull
Entries 81
Mean 854.2
Std Dev 796.5

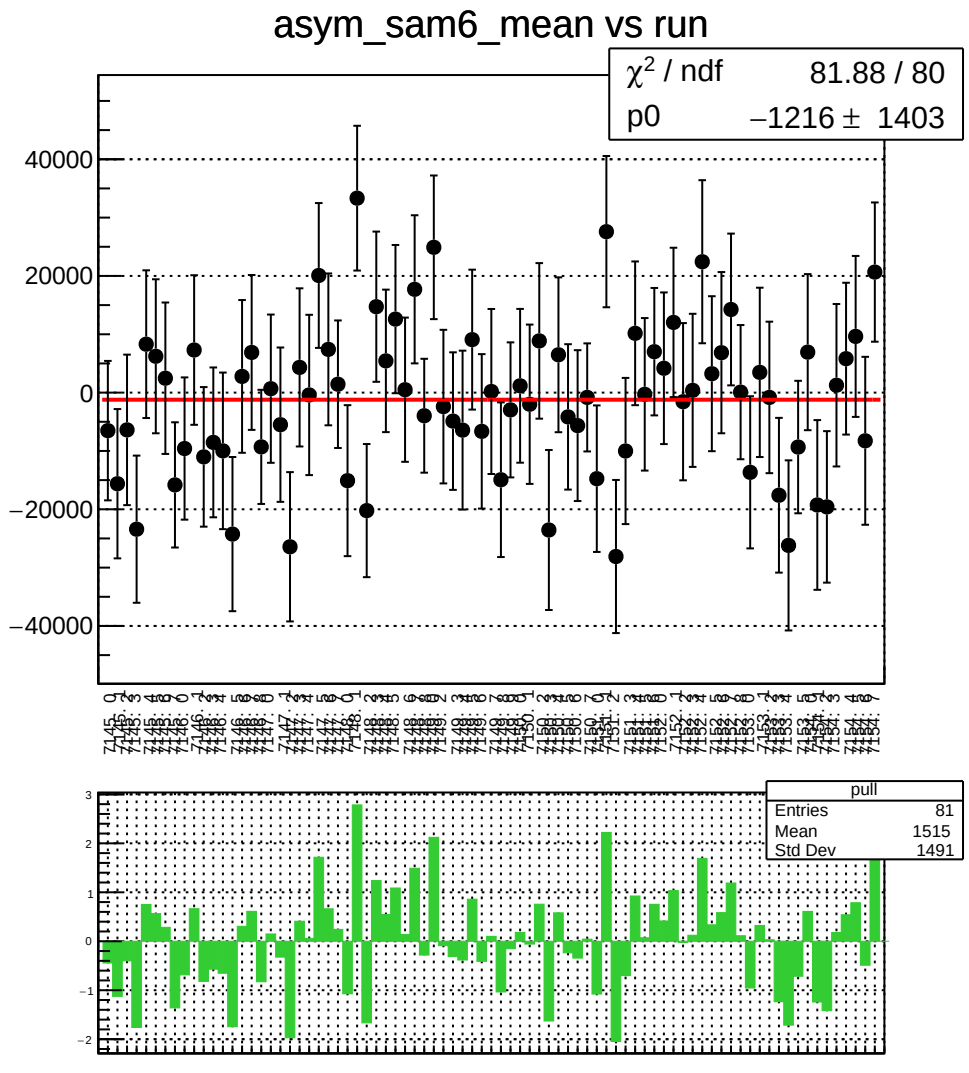

pull1D
Entries 81
Mean −0.002211
Std Dev 1.021

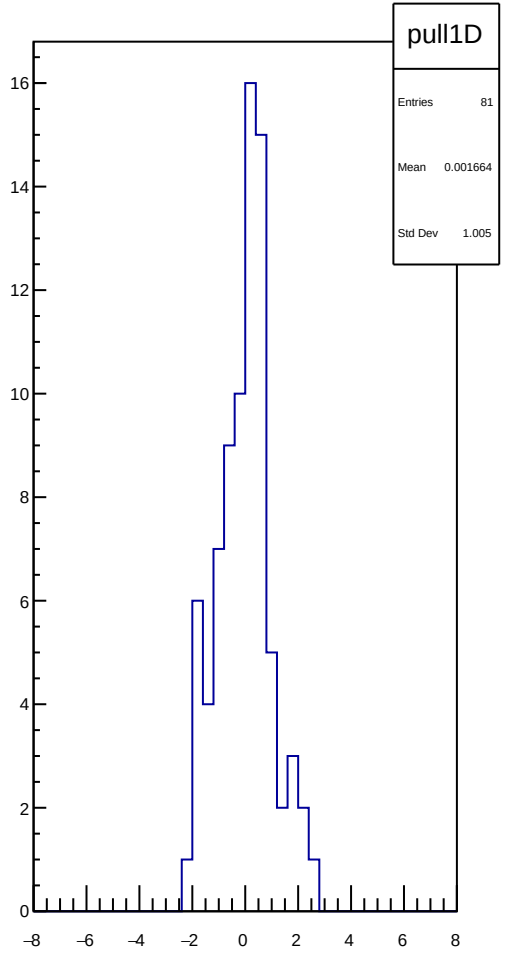

asym_sam4_rms vs run
χ² / ndf 5354 / 80
p0 1816 ± 1.463
2100
2000
1900
1800
1700
1600

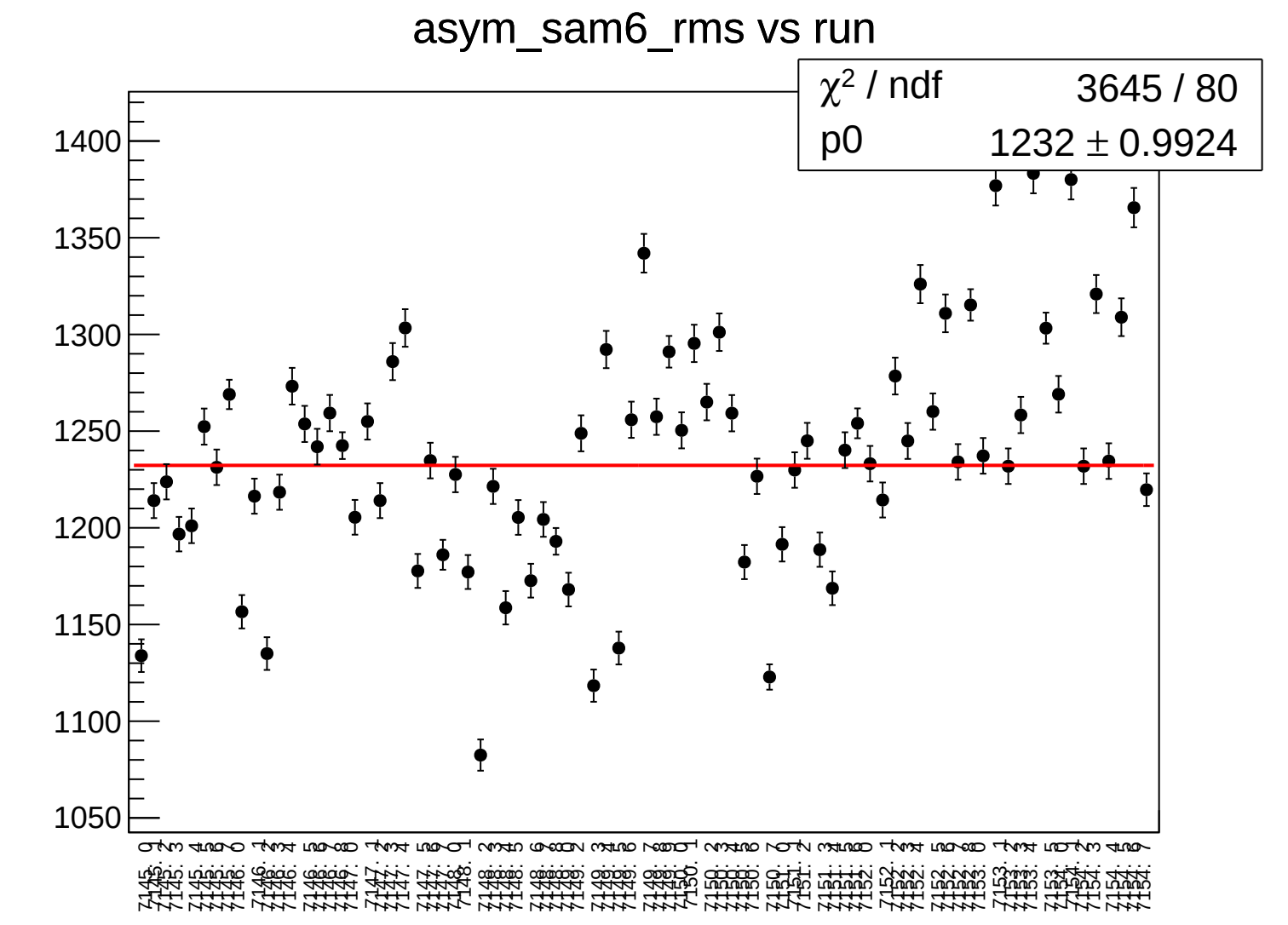

asym_sam5_mean vs run
χ² / ndf 79.19 / 80
p0 1030 ± 1189
pull
Entries 81
Mean −536.9
Std Dev 520.3

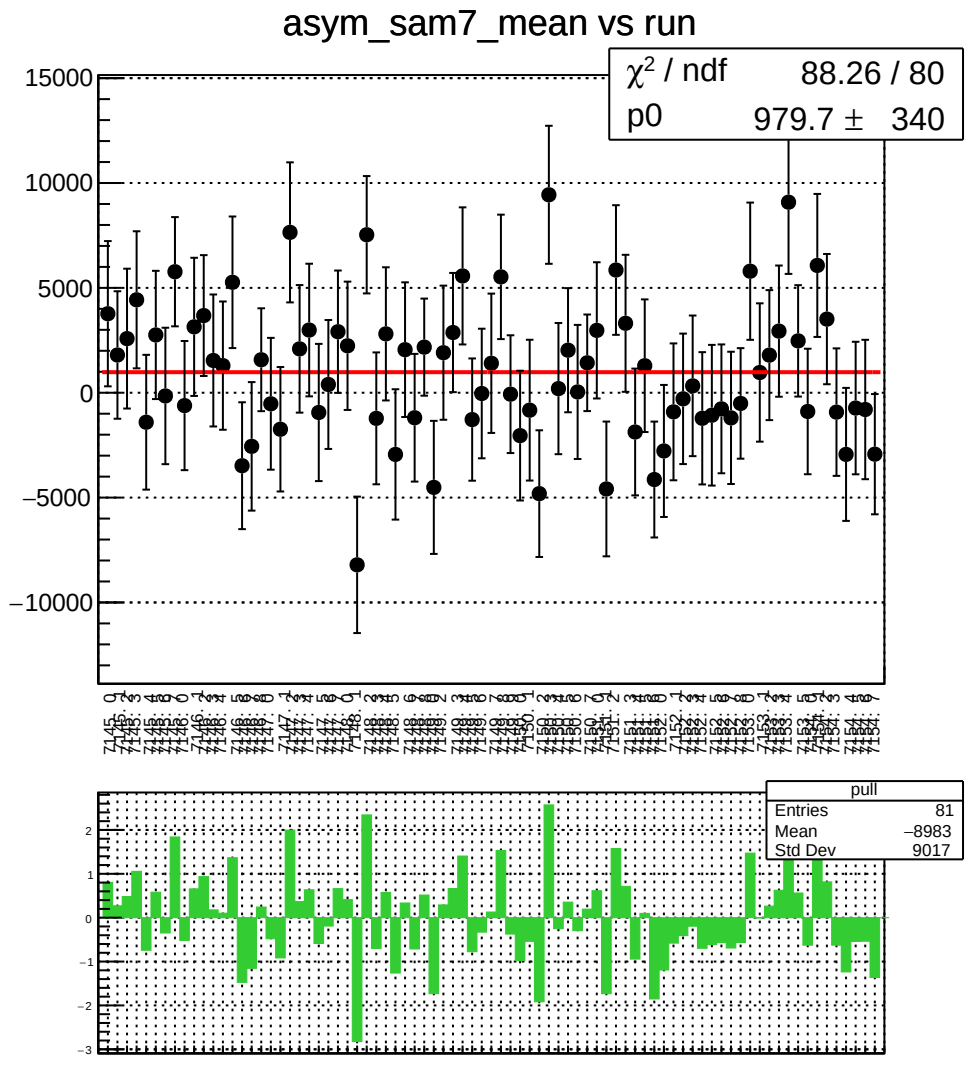

pull1D
Entries 81
Mean −0.00153
Std Dev 0.9888

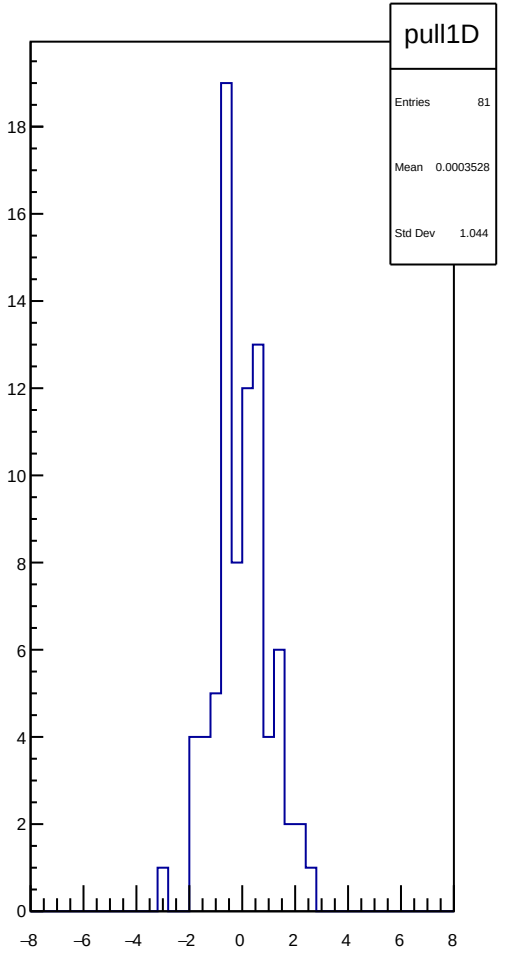

asym_sam5_rms vs run
χ² / ndf 8694 / 80
p0 1042 ± 0.8407
1250
1200
1150
1100
1050
1000
950
900

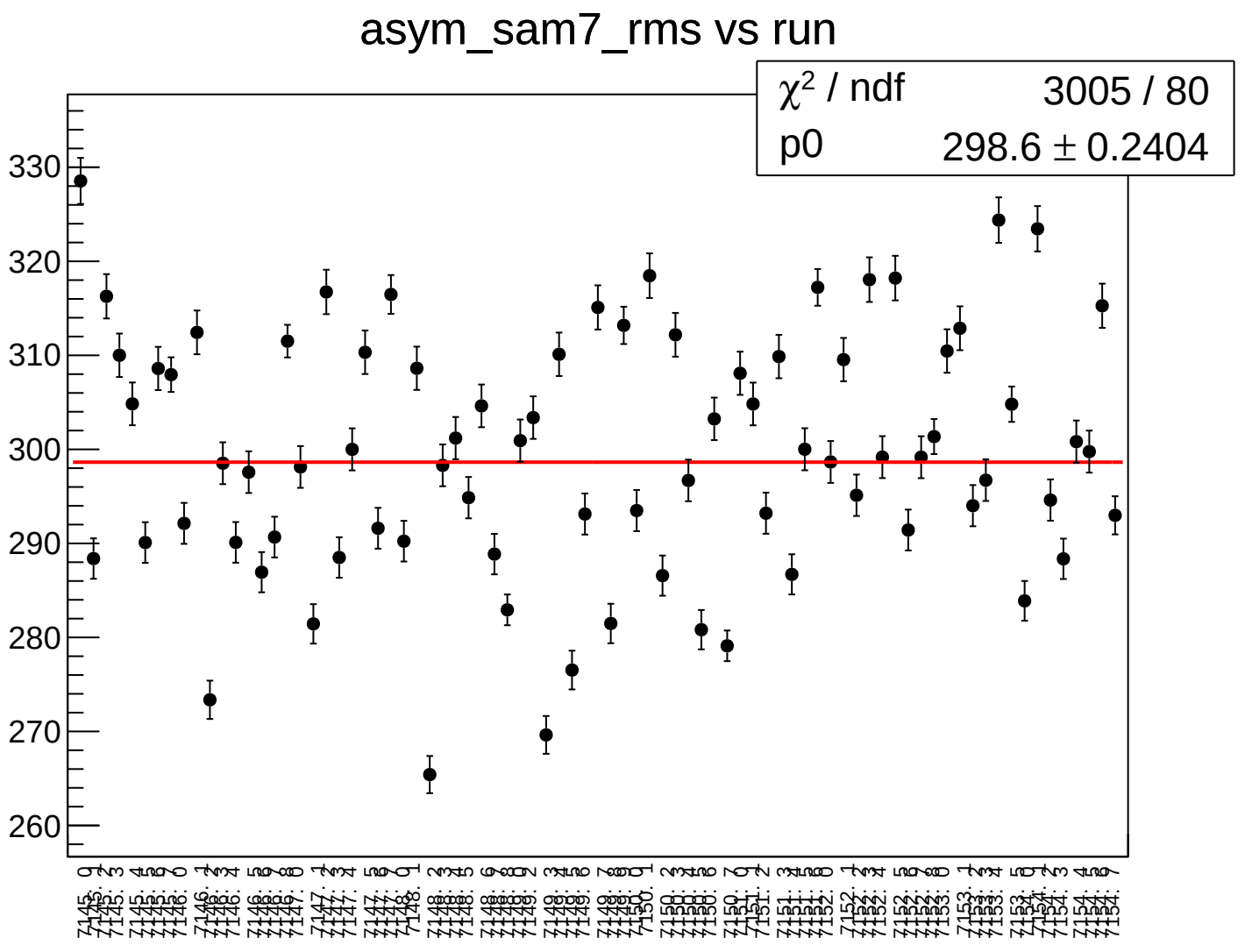

asym_sam6_mean vs run
χ² / ndf 81.88 / 80
p0 −1216 ± 1403
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 1515
Std Dev 1491
3
2
1
0
−1
−2

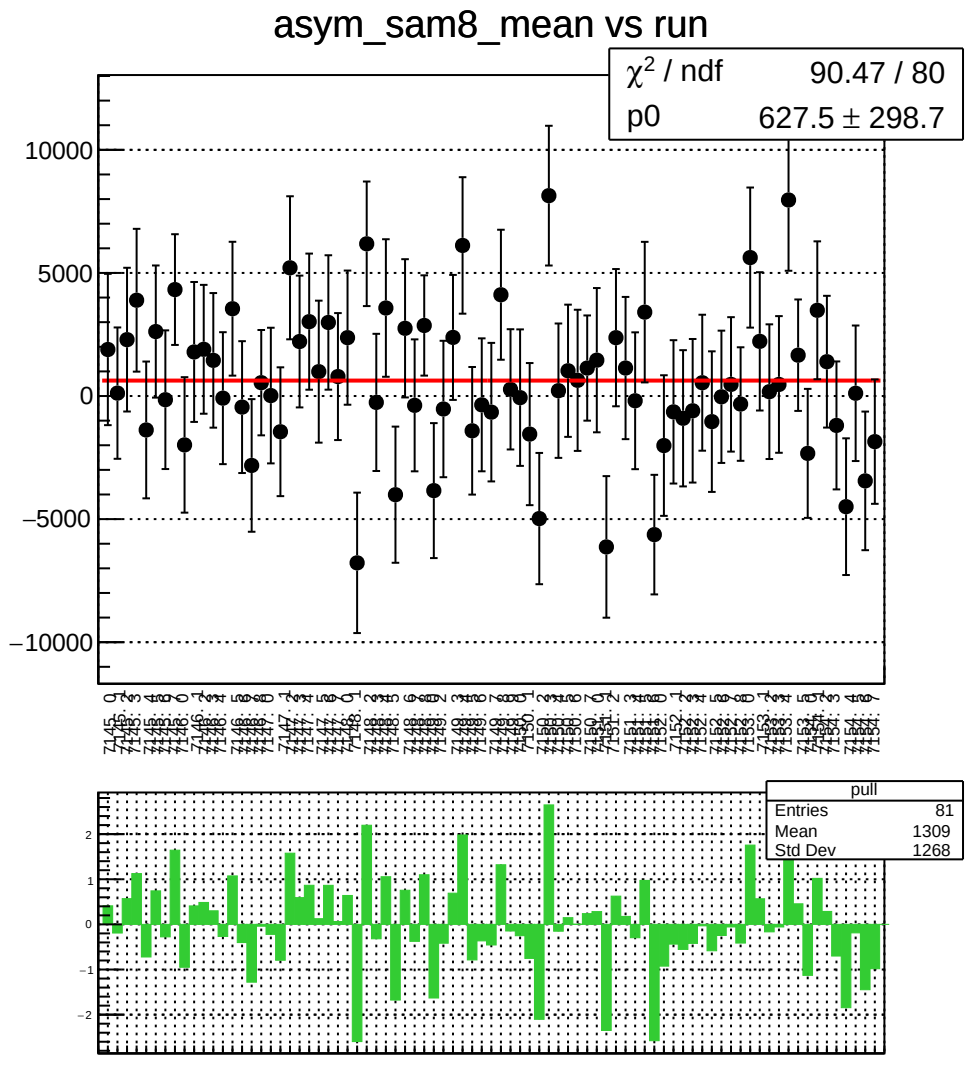

pull1D
Entries 81
Mean 0.001664
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

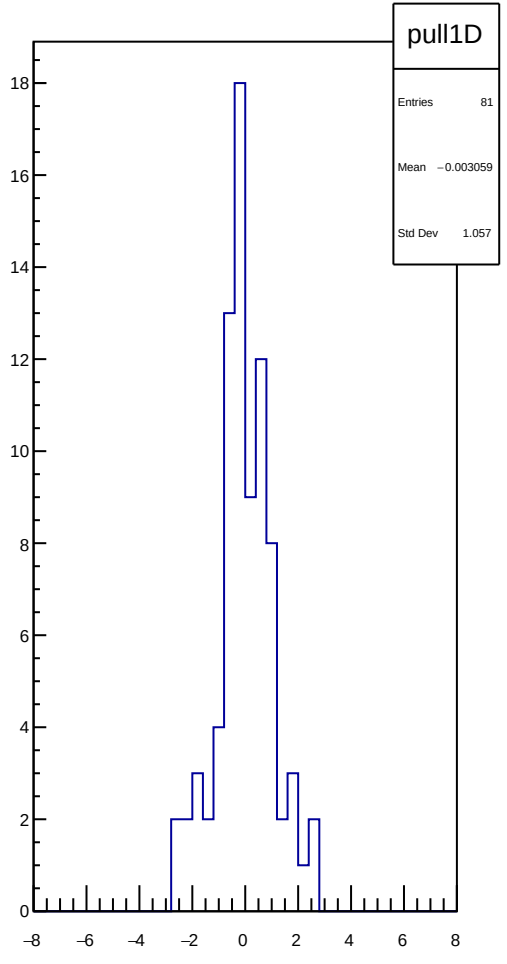

asym_sam6_rms vs run
χ² / ndf 3645 / 80
p0 1232 ± 0.9924
1400
1350
1300
1250
1200
1150
1100
1050

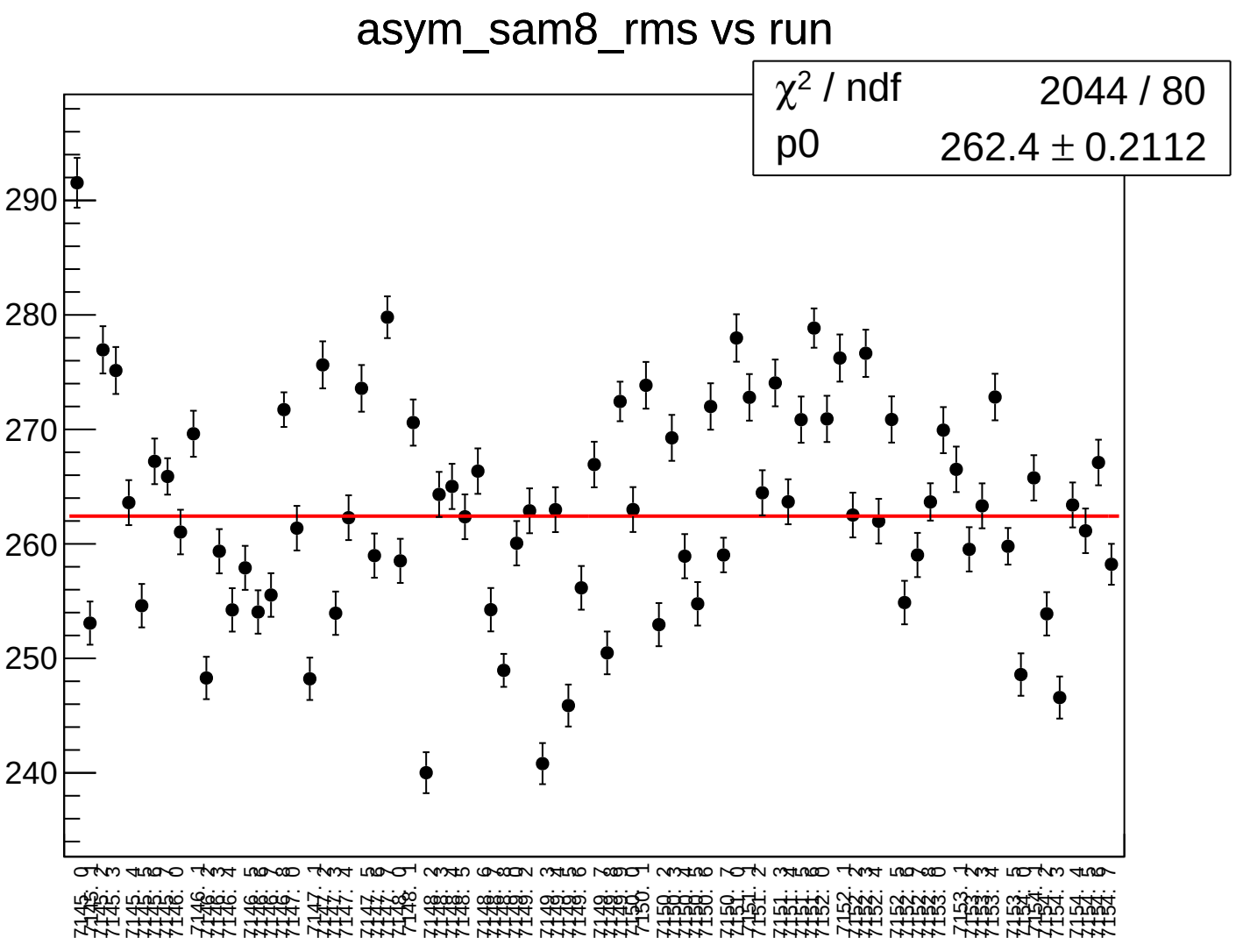

asym_sam7_mean vs run
χ² / ndf 88.26 / 80
p0 979.7 ± 340
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −8983
Std Dev 9017
2
1
0
−1
−2
−3

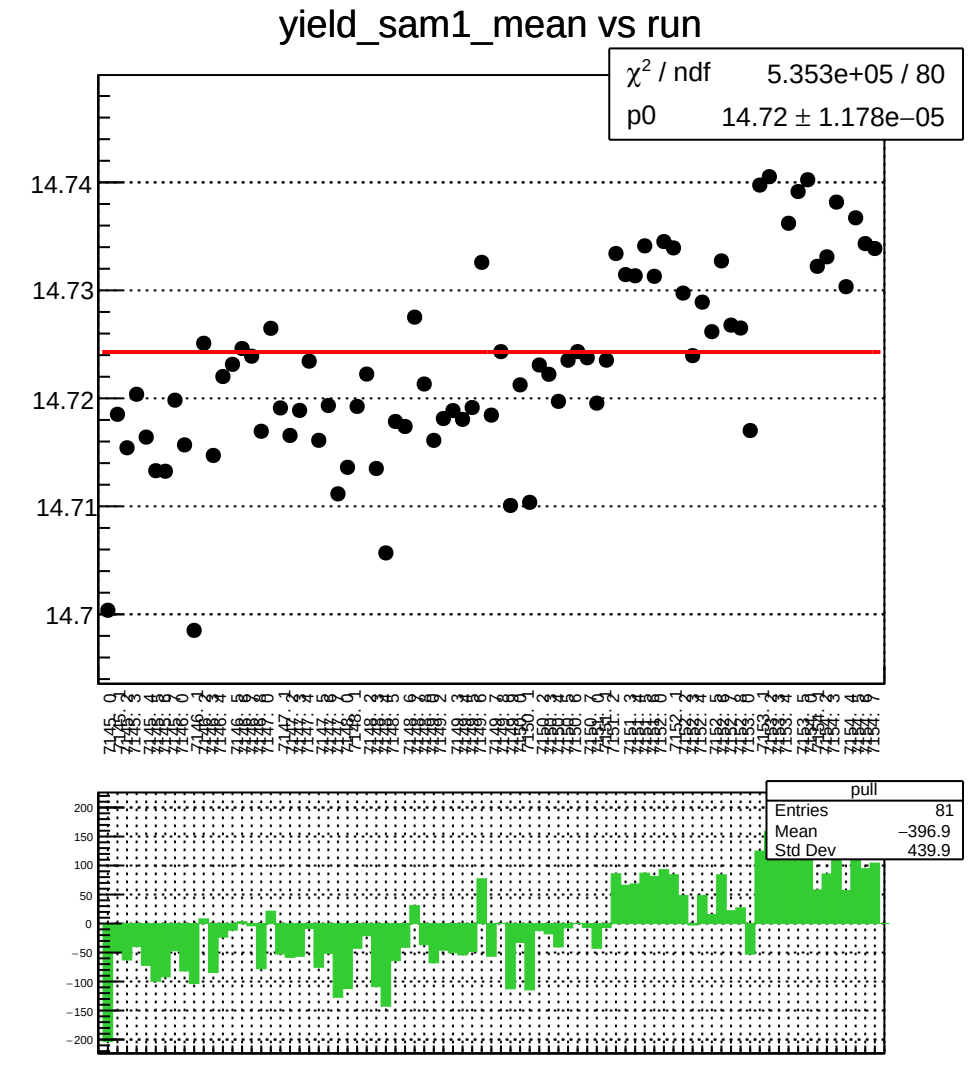

pull1D
Entries 81
Mean 0.0003528
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

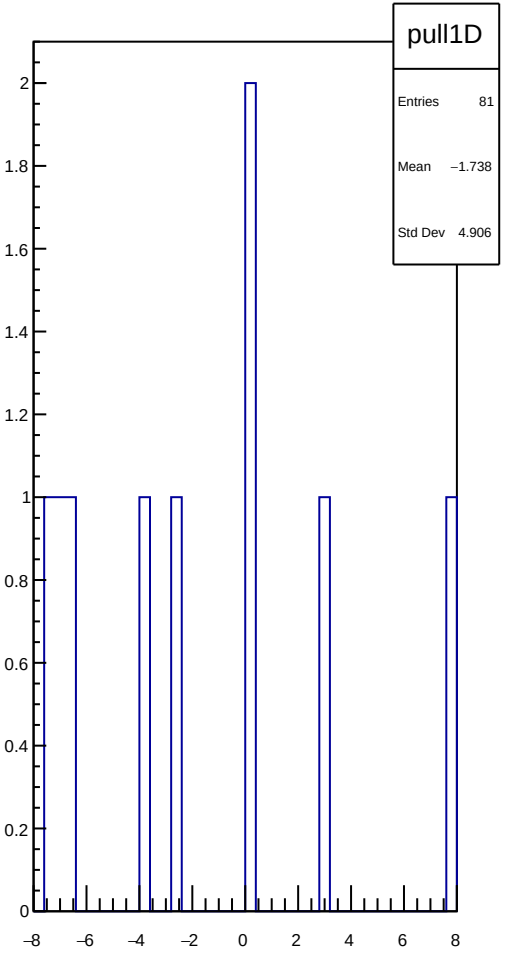

asym_sam7_rms vs run
χ² / ndf 3005 / 80
p0 298.6 ± 0.2404
330
320
310
300
290
280
270
260

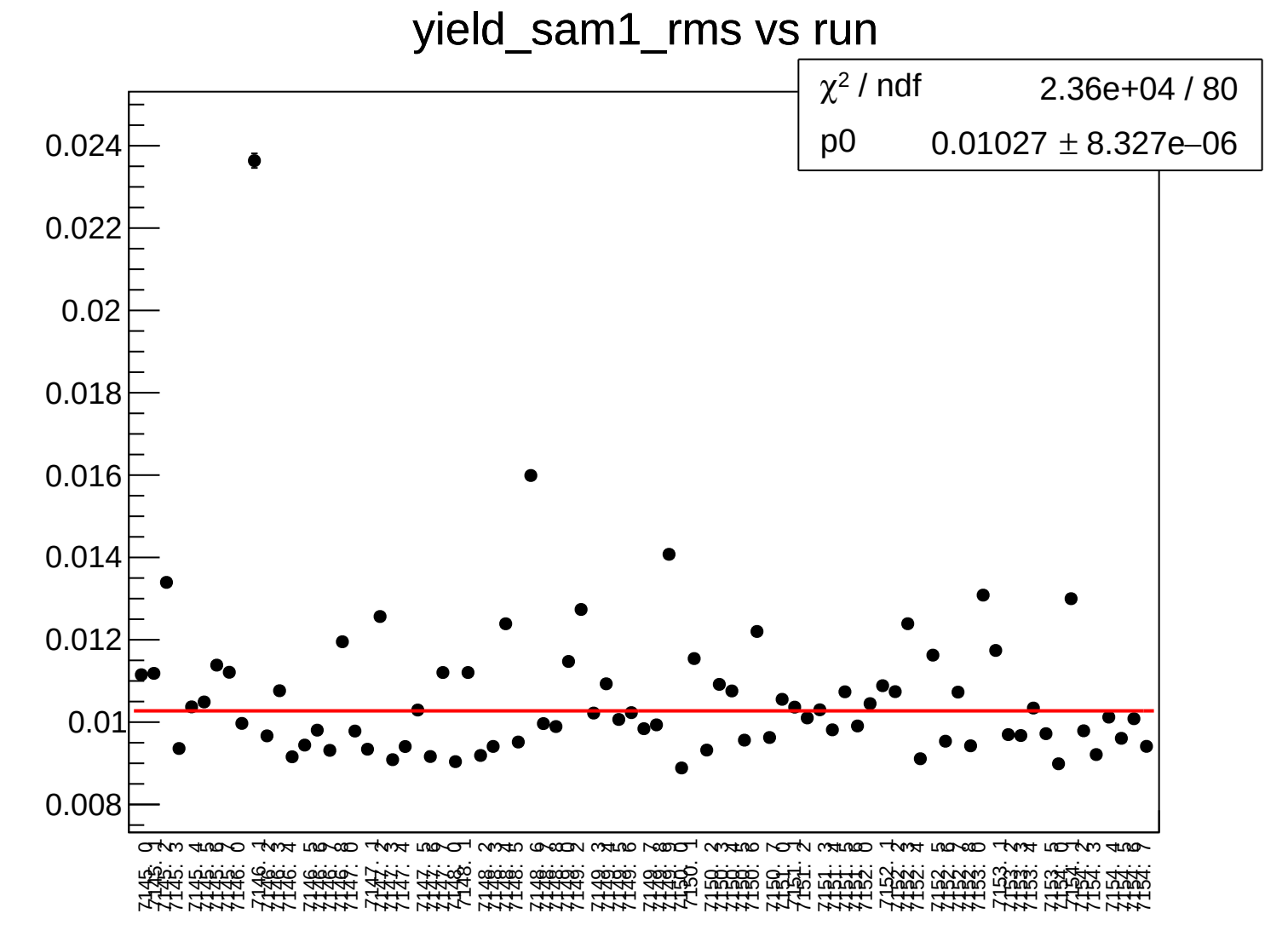

asym_sam8_mean vs run
χ² / ndf 90.47 / 80
p0 627.5 ± 298.7
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 1309
Std Dev 1268
2
1
0
−1
−2

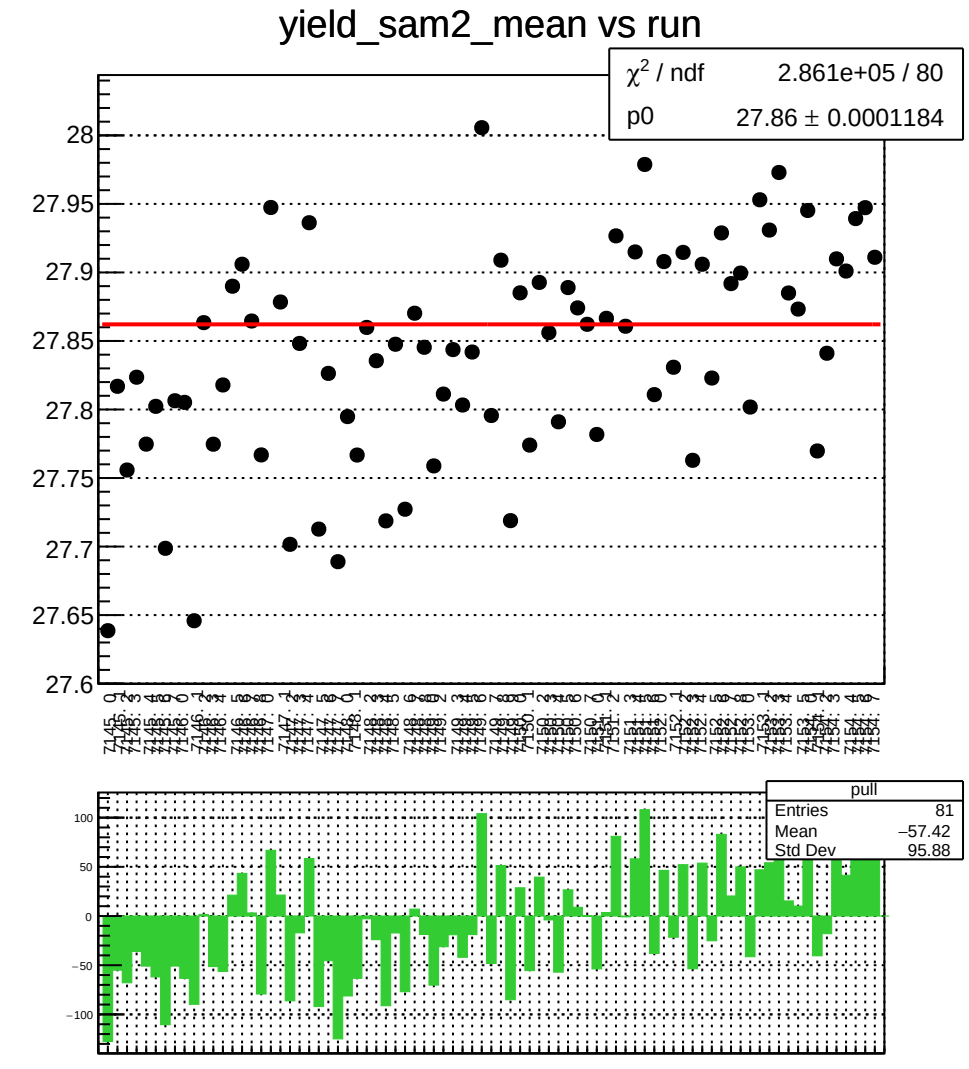

pull1D
Entries 81
Mean −0.003059
Std Dev 1.057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

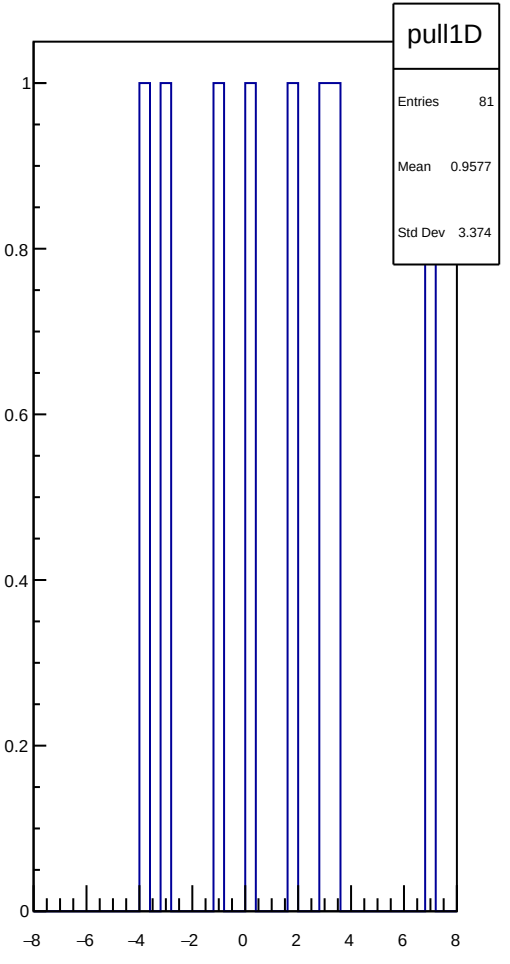

asym_sam8_rms vs run
χ² / ndf 2044 / 80
p0 262.4 ± 0.2112
290
280
270
260
250
240

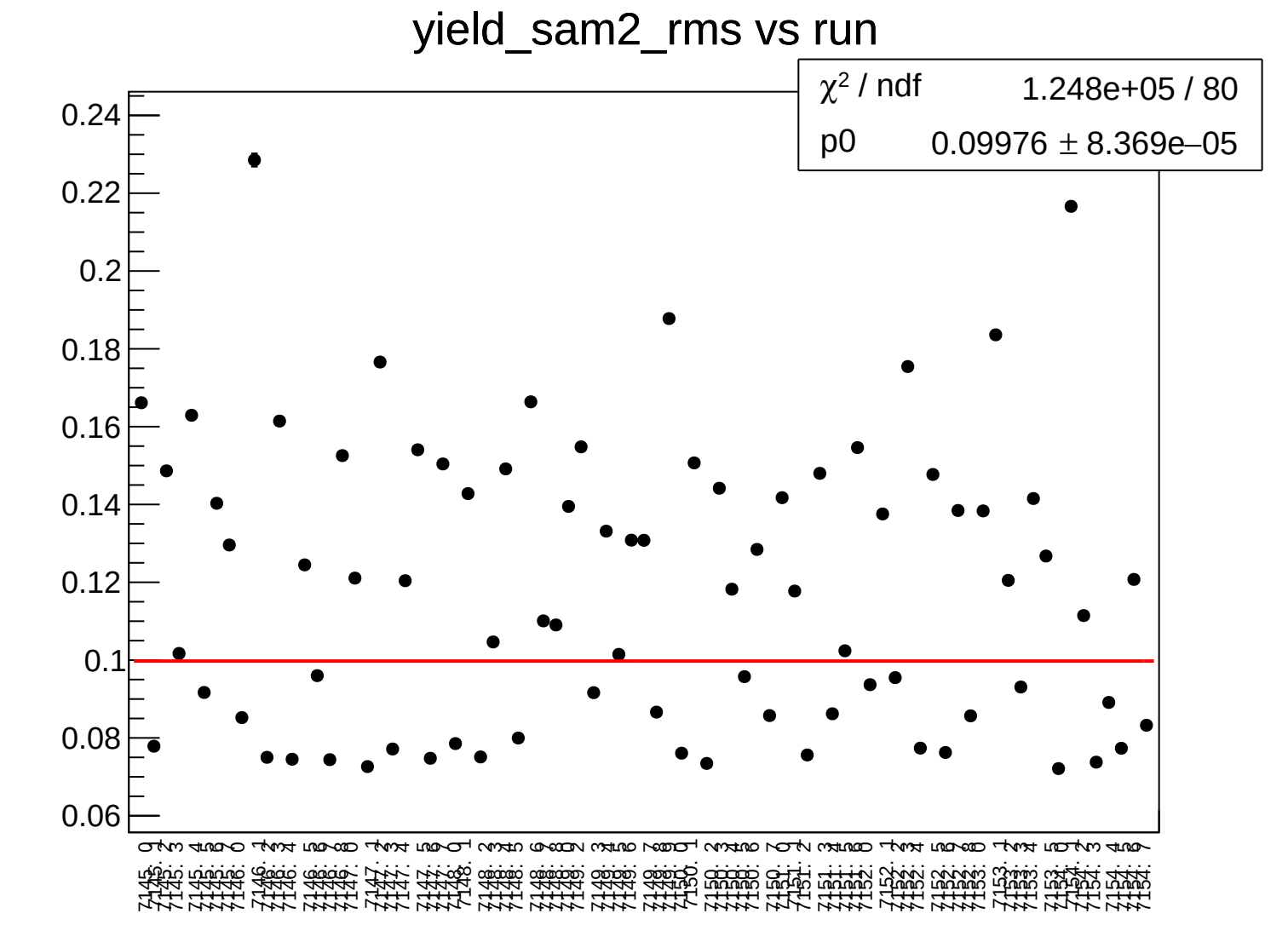

yield_sam1_mean vs run
χ² / ndf 5.353e+05 / 80
p0 14.72 ± 1.178e−05
14.74
14.73
14.72
14.71
14.7
pull
Entries 81
Mean −396.9
Std Dev 439.9
200
150
100
50
0
−50
−100
−150
−200

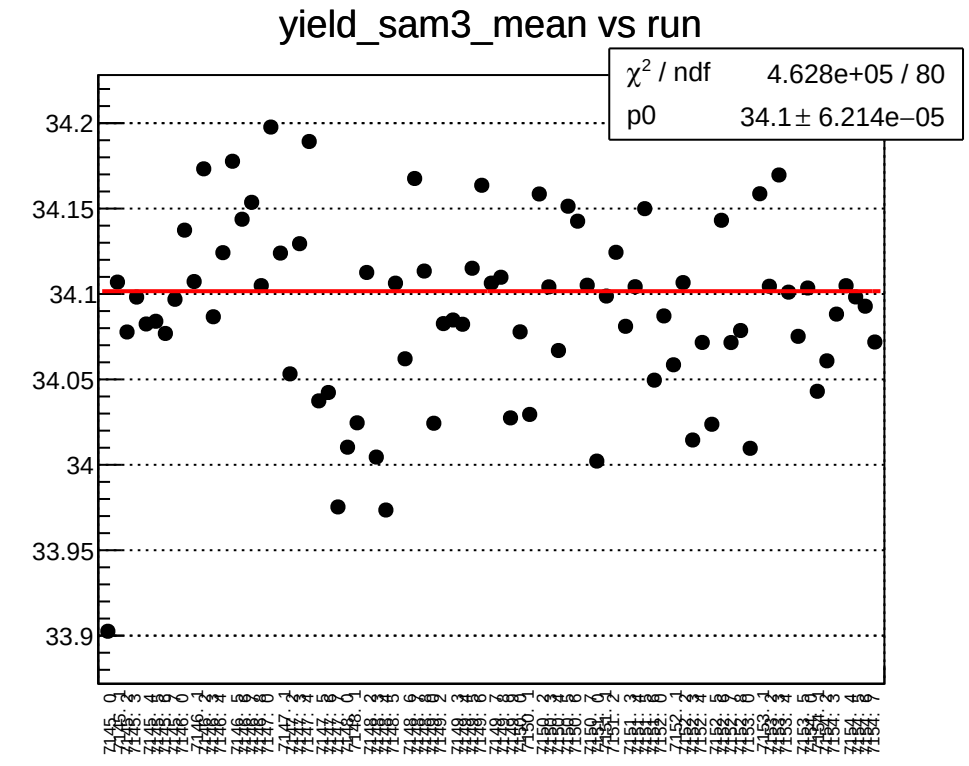

pull1D
Entries 81
Mean −1.738
Std Dev 4.906
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

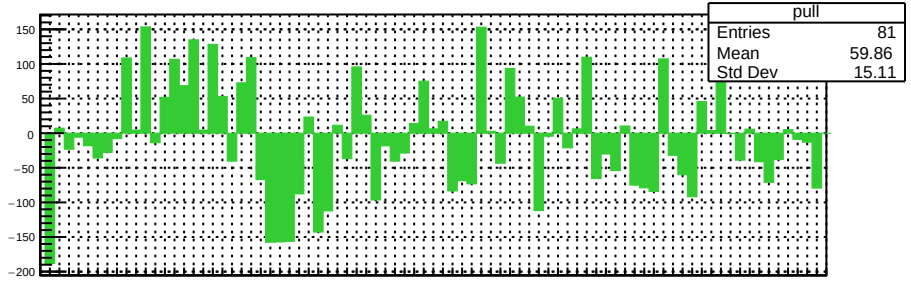

yield_sam1_rms vs run
χ² / ndf 2.36e+04 / 80
p0 0.01027 ± 8.327e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

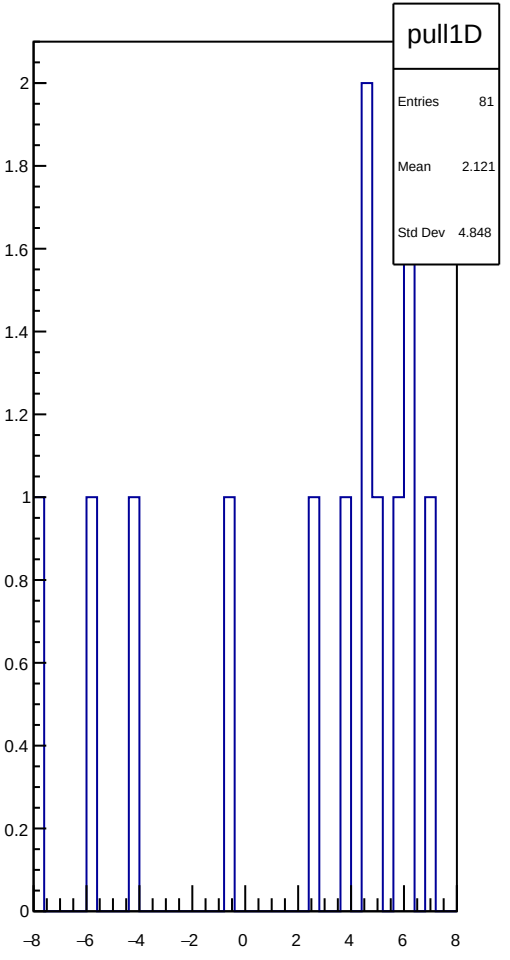

yield_sam2_mean vs run
χ² / ndf 2.861e+05 / 80
p0 27.86 ± 0.0001184
28
27.95
27.9
27.85
27.8
27.75
27.7
27.65
27.6
pull
Entries 81
Mean −57.42
Std Dev 95.88
100
50
0
−50
−100

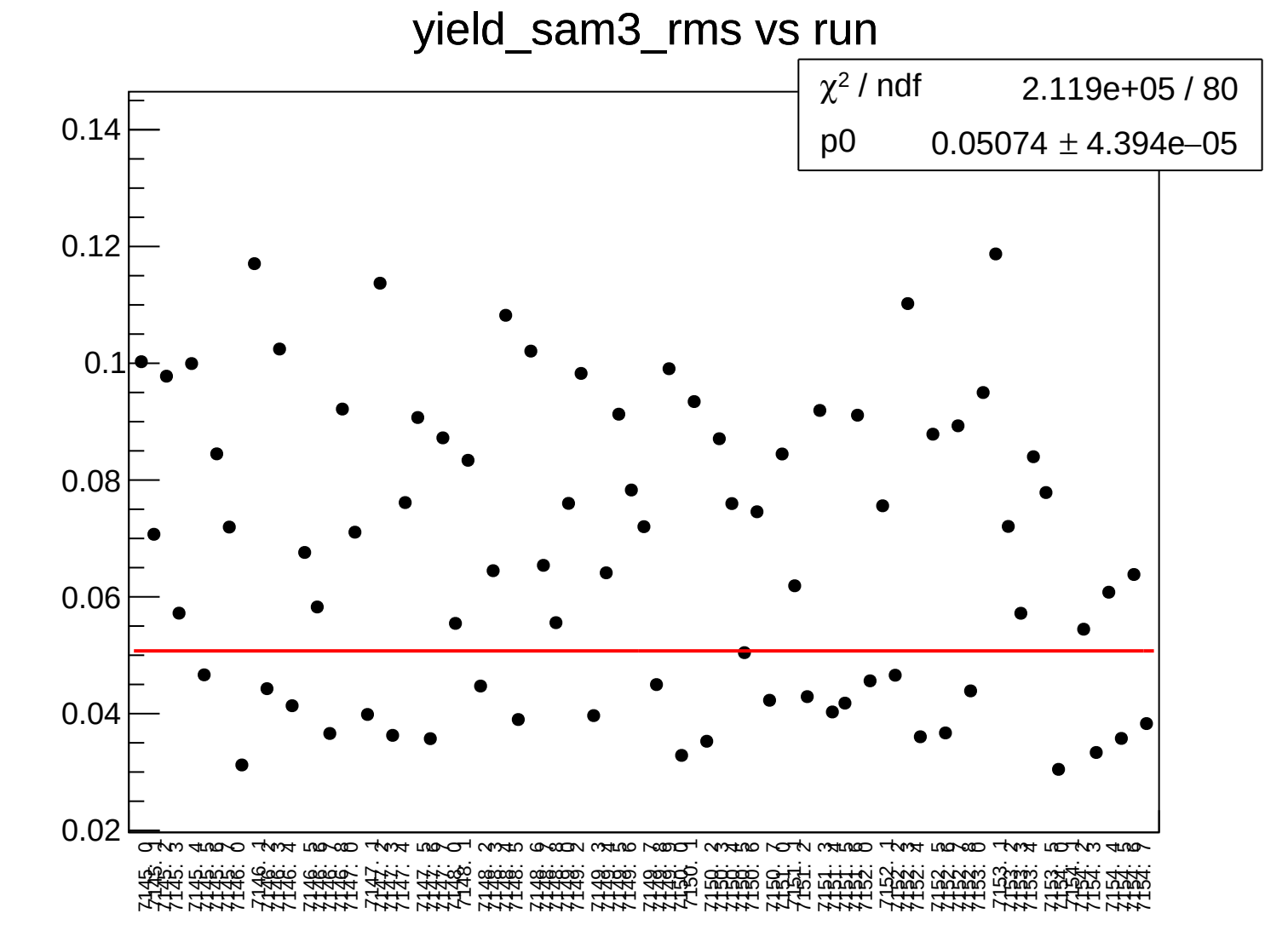

pull1D
Entries 81
Mean 0.9577
Std Dev 3.374
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

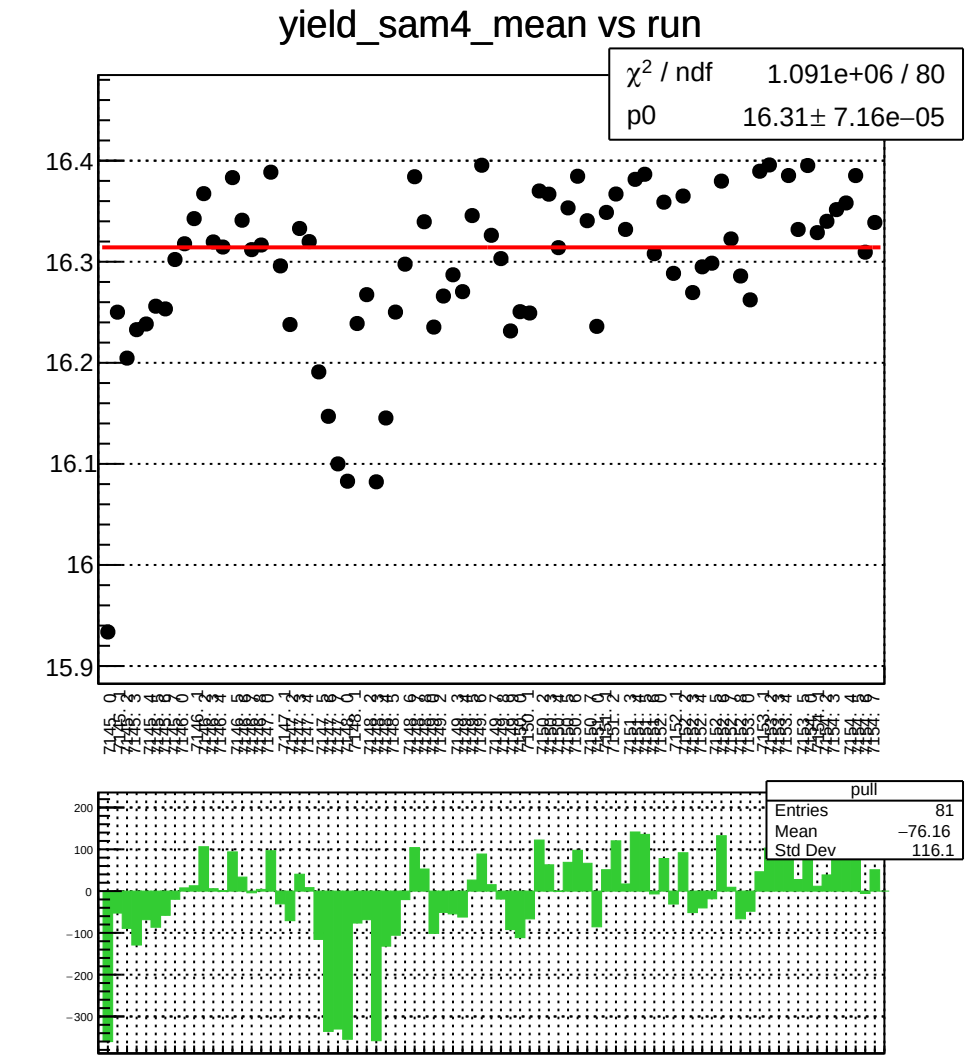

yield_sam2_rms vs run
χ² / ndf 1.248e+05 / 80
p0 0.09976 ± 8.369e–05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

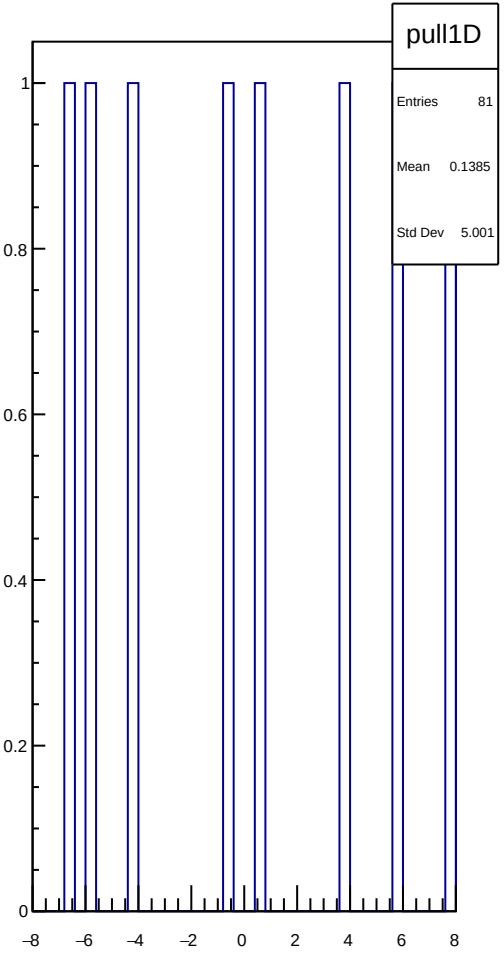

yield_sam3_mean vs run
χ² / ndf 4.628e+05 / 80
p0 34.1 ± 6.214e−05
34.2
34.15
34.1
34.05
34
33.95
33.9

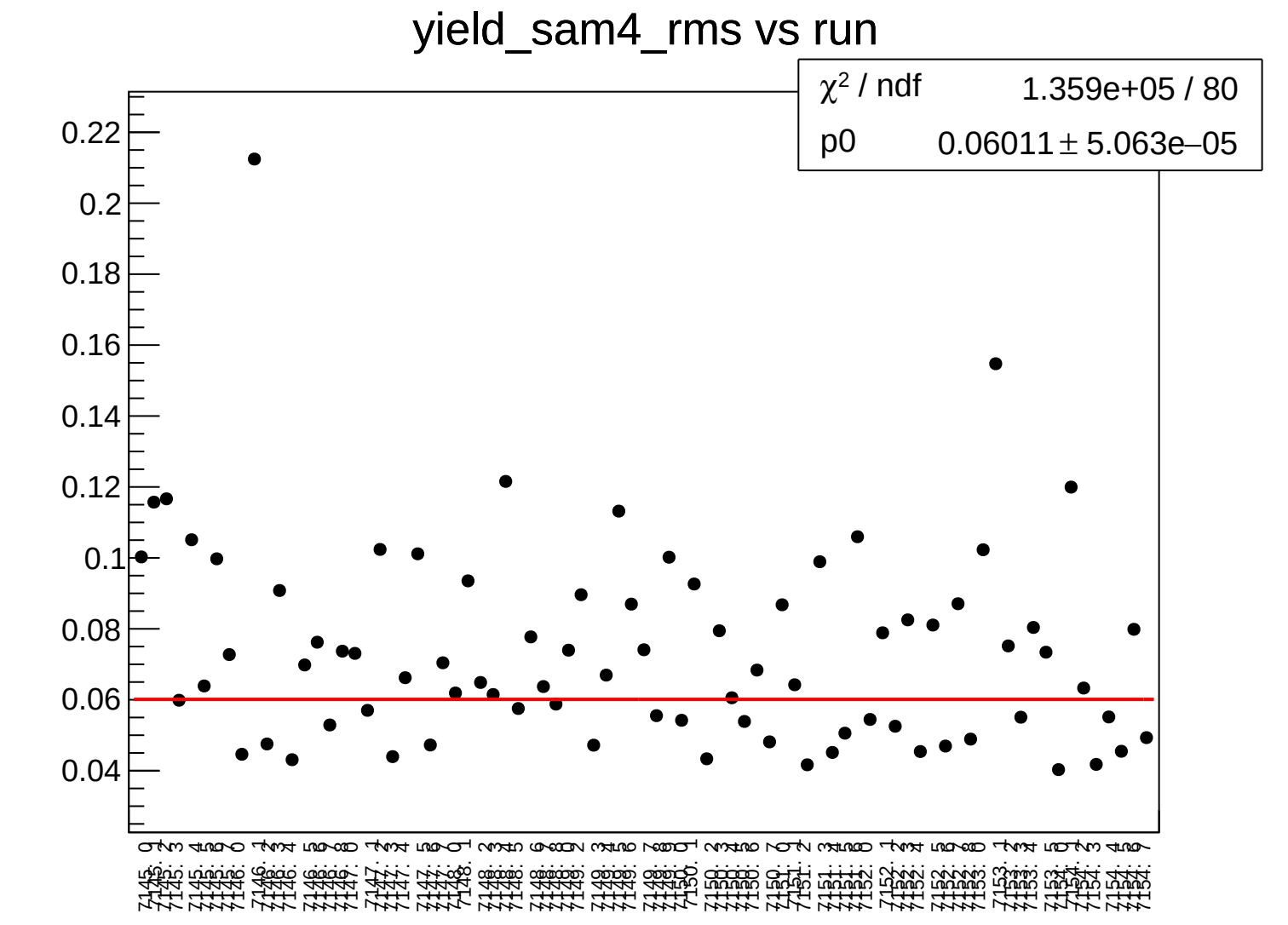

pull
Entries 81
Mean 59.86
Std Dev 15.11
150
100
50
0
−50
−100
−150
−200

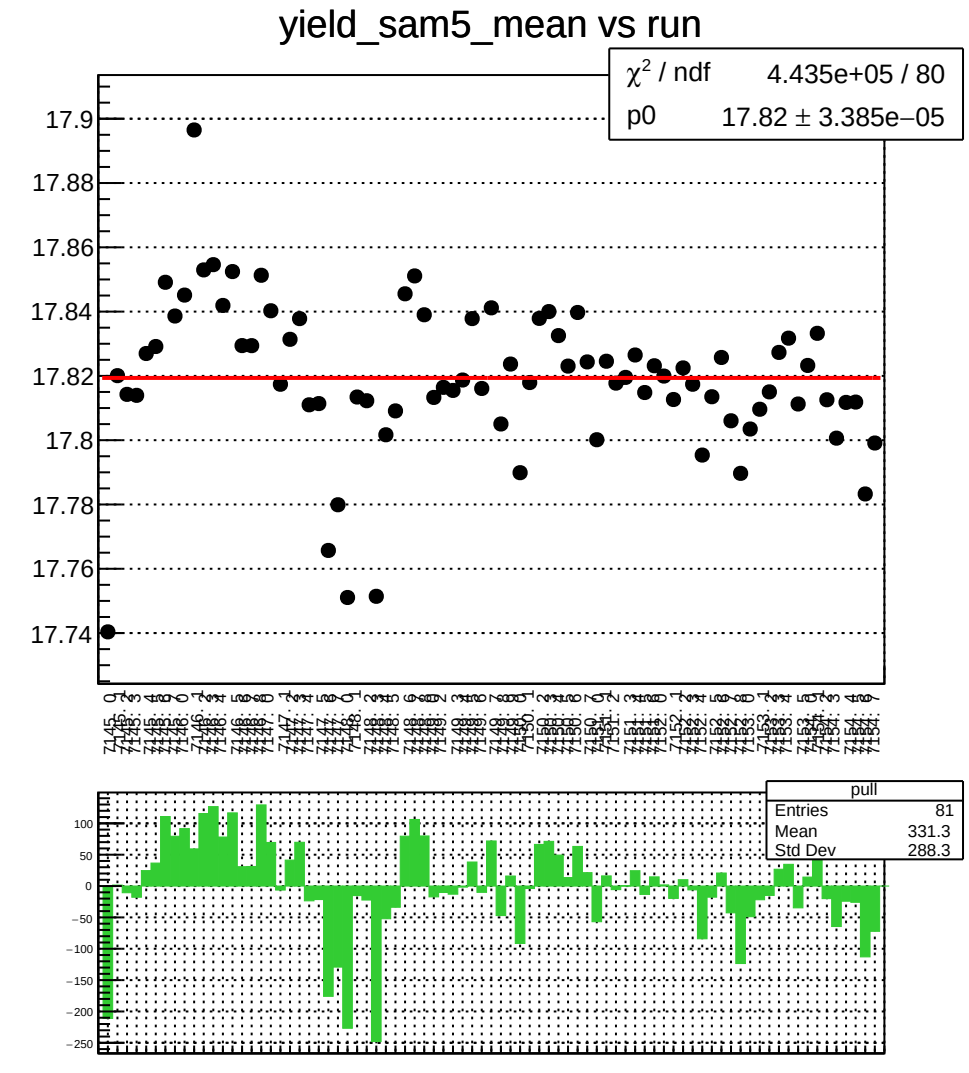

pull1D
Entries 81
Mean 2.121
Std Dev 4.848
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

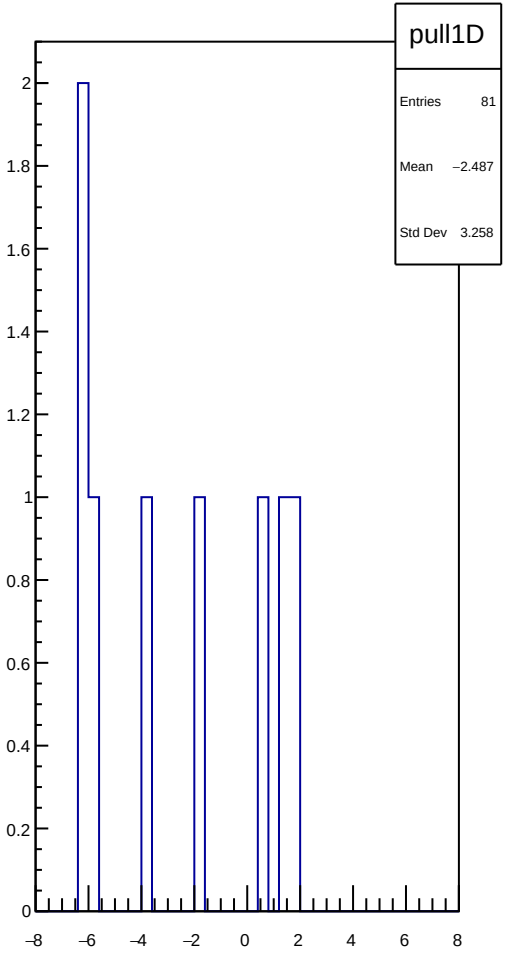

yield_sam3_rms vs run
χ² / ndf 2.119e+05 / 80
p0 0.05074 ± 4.394e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

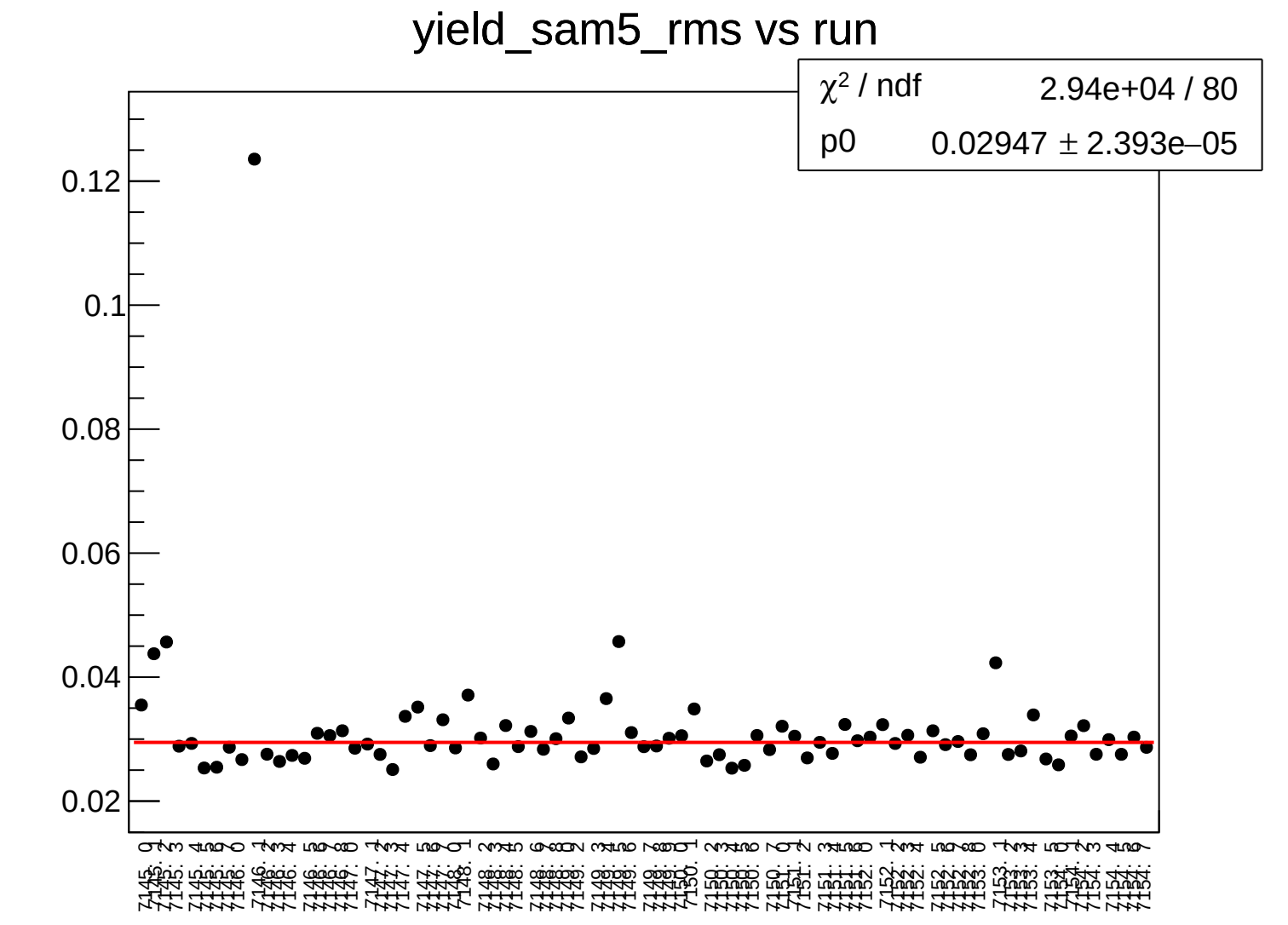

yield_sam4_mean vs run
χ² / ndf 1.091e+06 / 80
p0 16.31± 7.16e−05
16.4
16.3
16.2
16.1
16
15.9
pull
Entries 81
Mean −76.16
Std Dev 116.1
200
100
0
−100
−200
−300

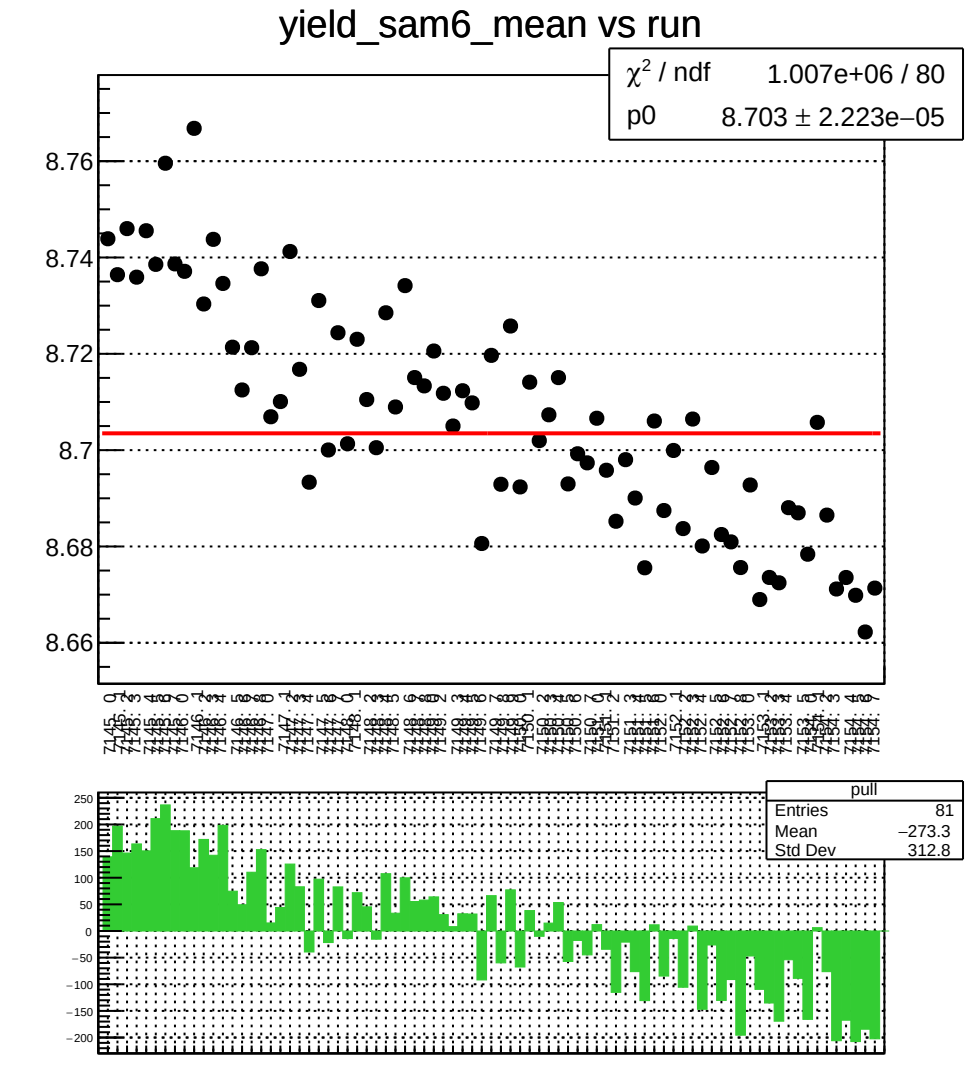

pull1D
Entries 81
Mean 0.1385
Std Dev 5.001
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

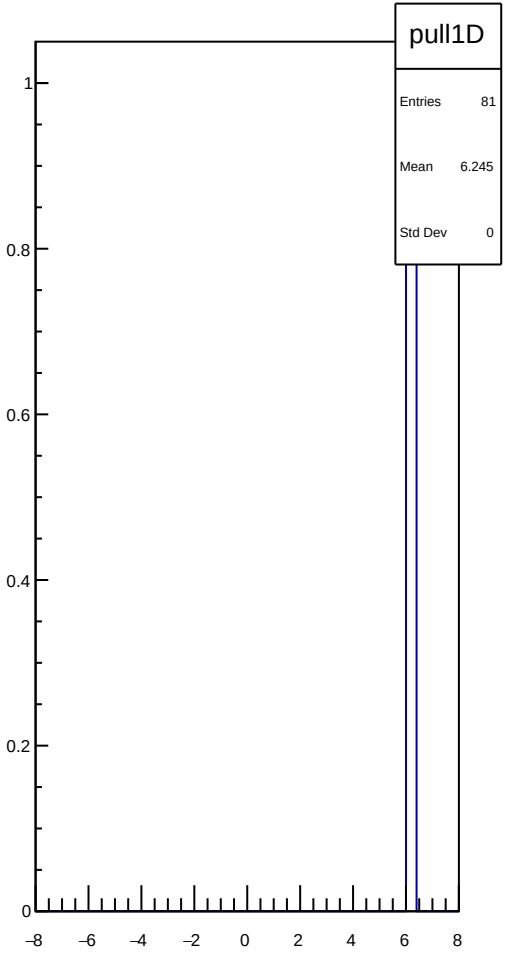

yield_sam4_rms vs run
χ² / ndf 1.359e+05 / 80
p0 0.06011 ± 5.063e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

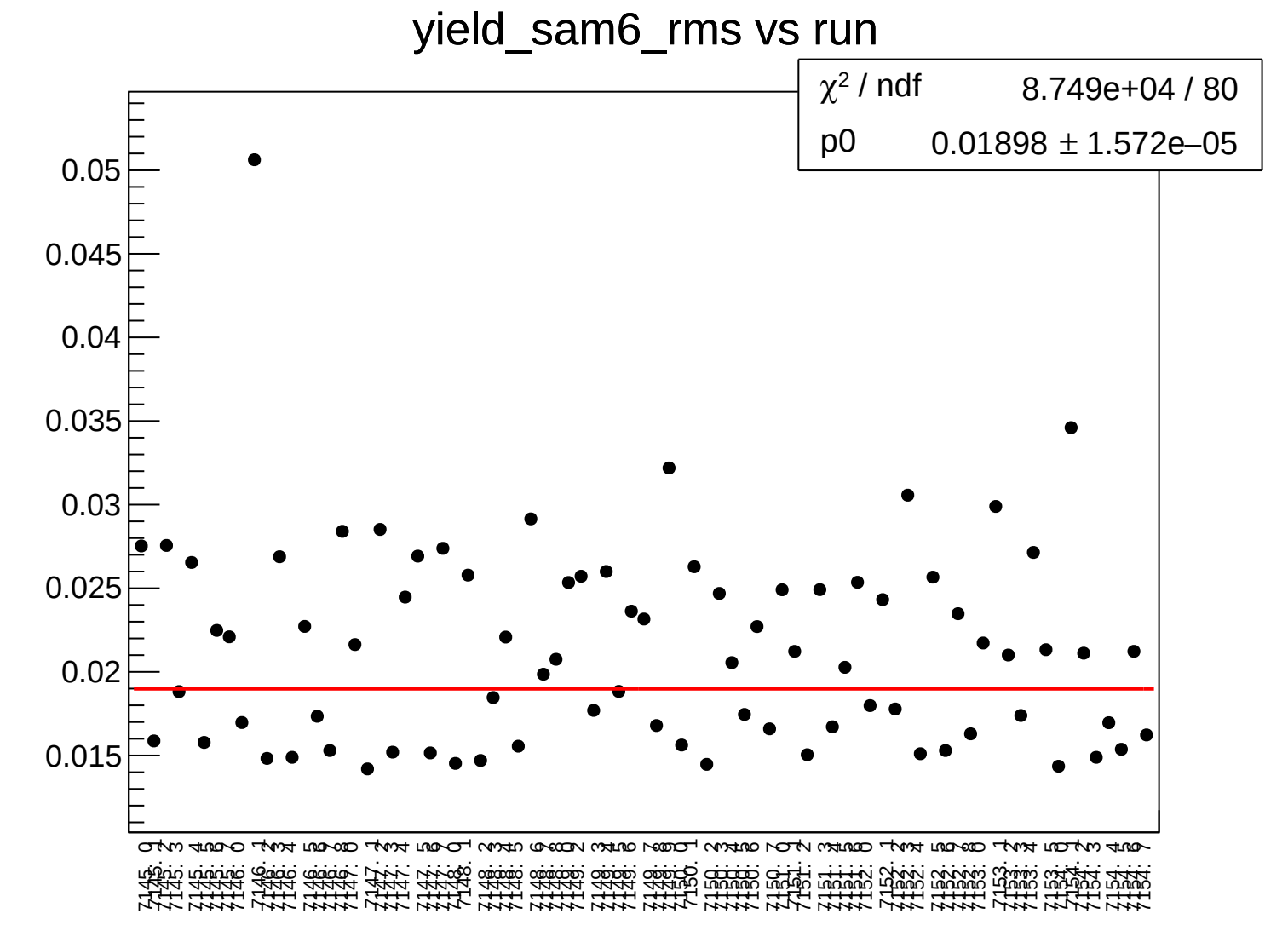

yield_sam5_mean vs run
χ² / ndf 4.435e+05 / 80
p0 17.82 ± 3.385e−05
17.9
17.88
17.86
17.84
17.82
17.8
17.78
17.76
17.74
pull
Entries 81
Mean 331.3
Std Dev 288.3
100
50
0
−50
−100
−150
−200
−250

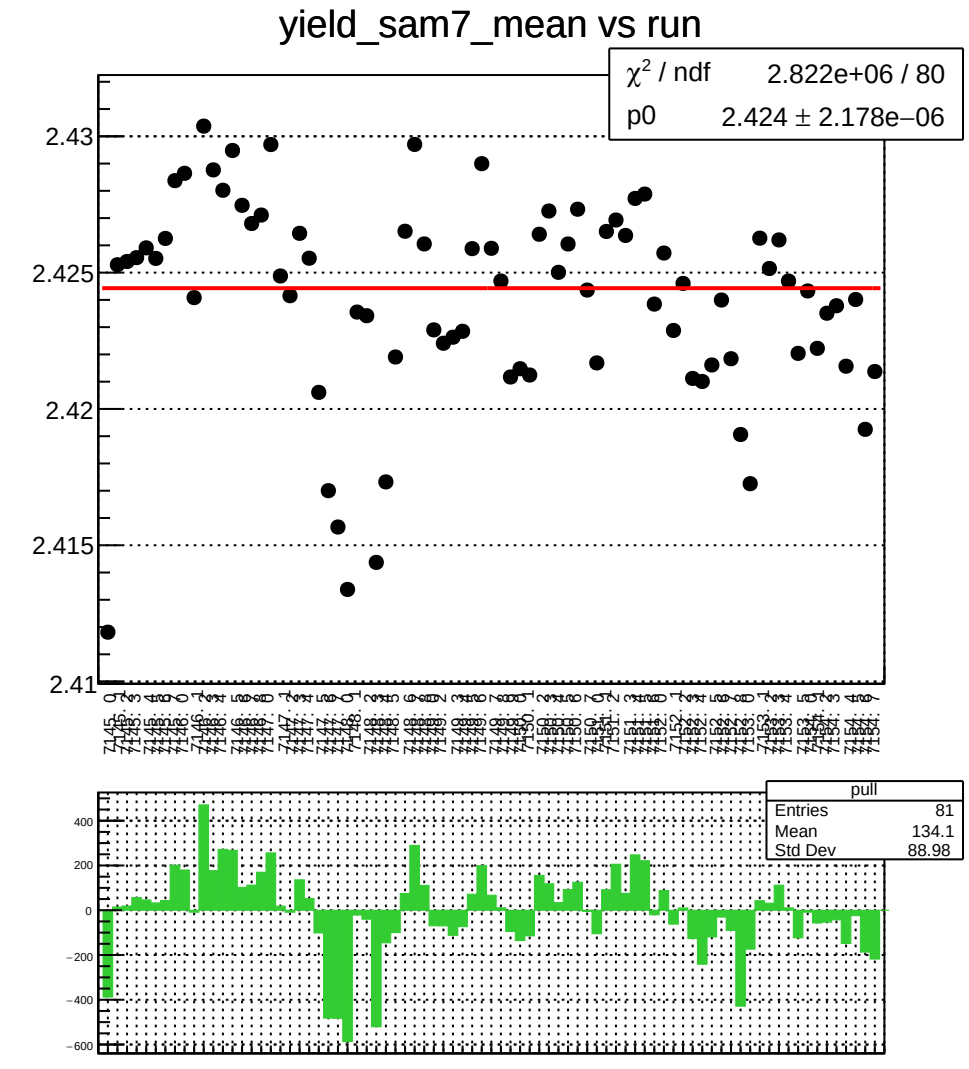

pull1D
Entries 81
Mean −2.487
Std Dev 3.258
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

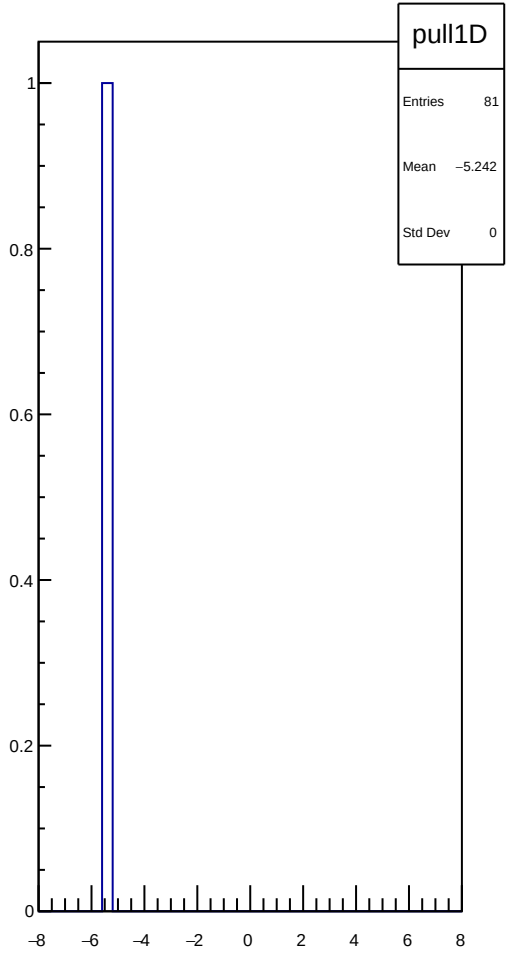

yield_sam5_rms vs run
χ² / ndf 2.94e+04 / 80
p0 0.02947 ± 2.393e−05
0.12
0.1
0.08
0.06
0.04
0.02

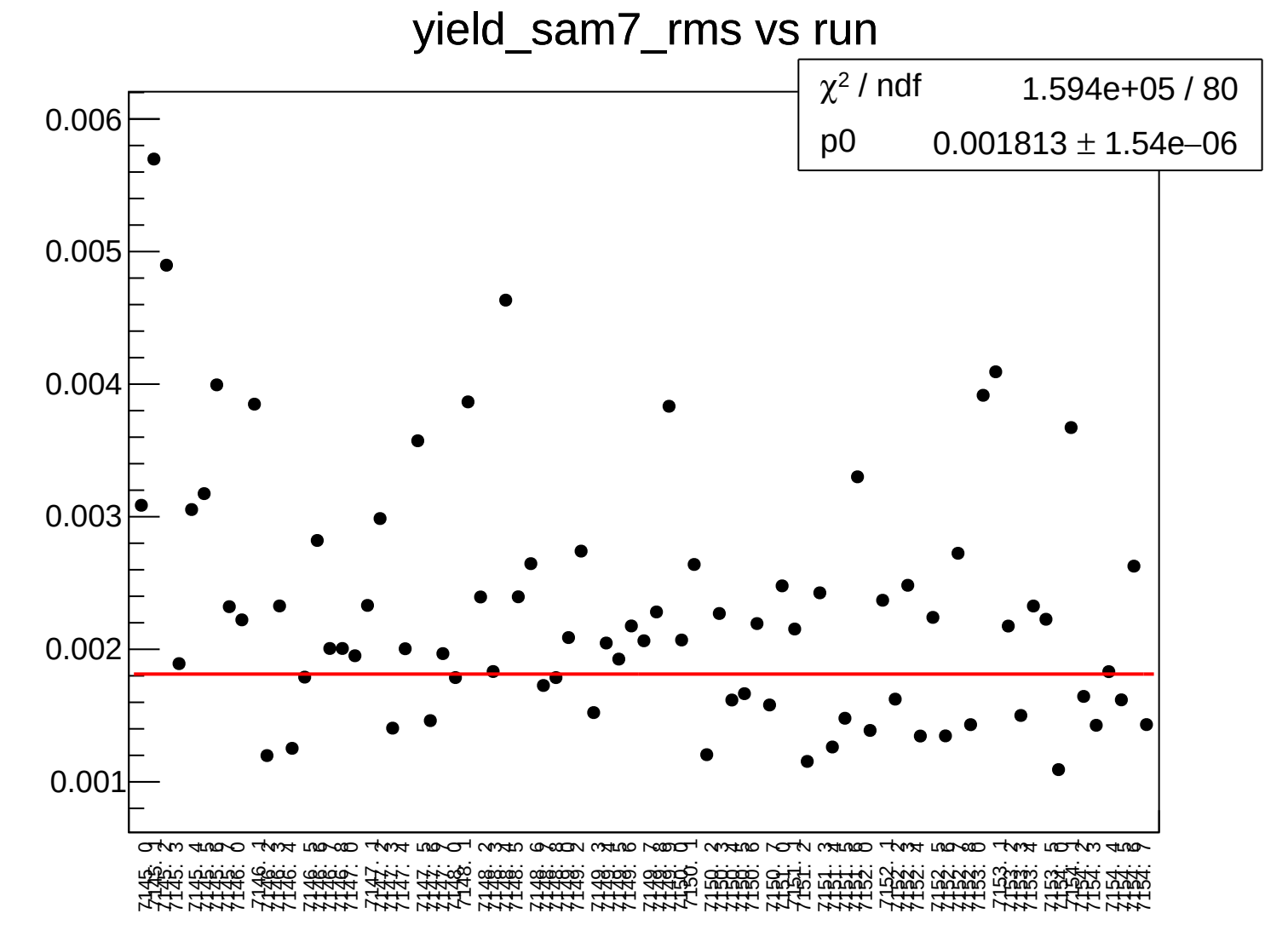

yield_sam6_mean vs run
χ² / ndf 1.007e+06 / 80
p0 8.703 ± 2.223e−05
8.76
8.74
8.72
8.7
8.68
8.66
pull
Entries 81
Mean −273.3
Std Dev 312.8
250
200
150
100
50
0
−50
−100
−150
−200

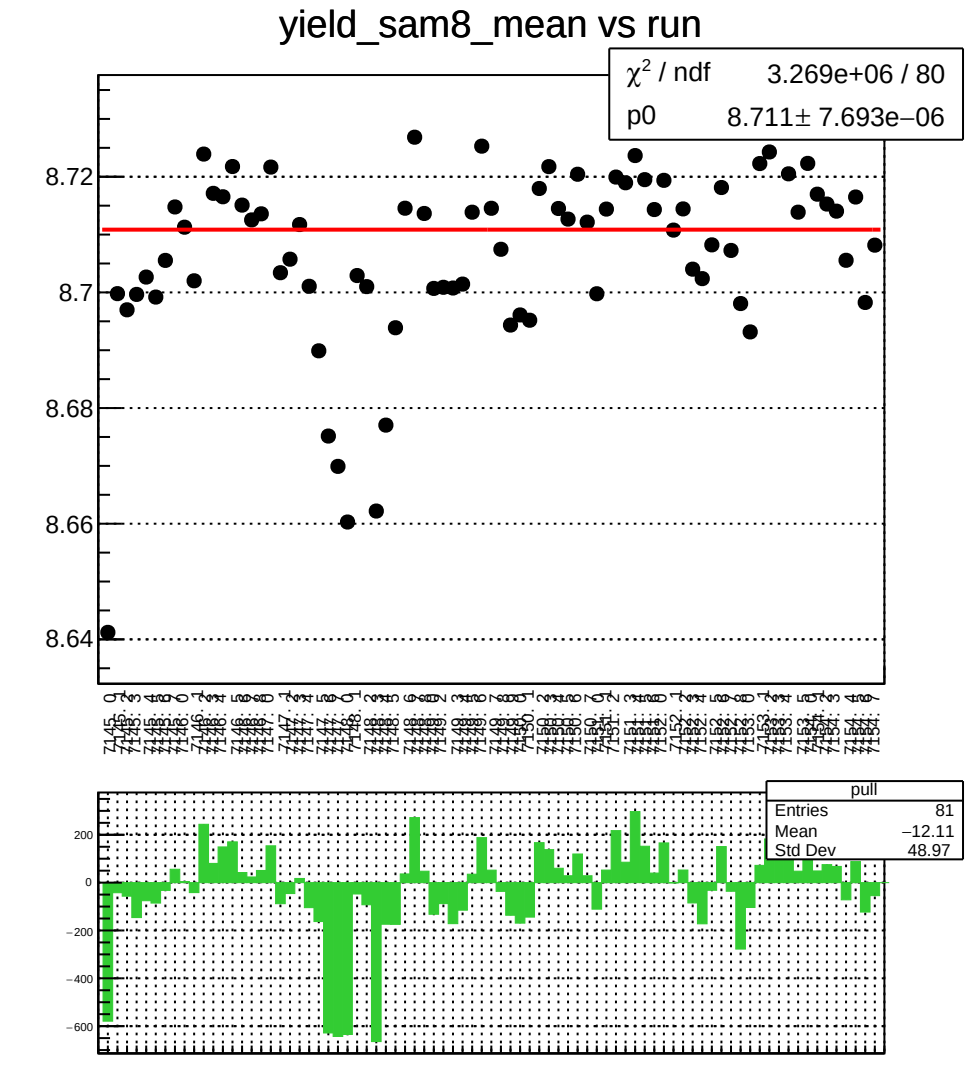

pull1D
Entries 81
Mean 6.245
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

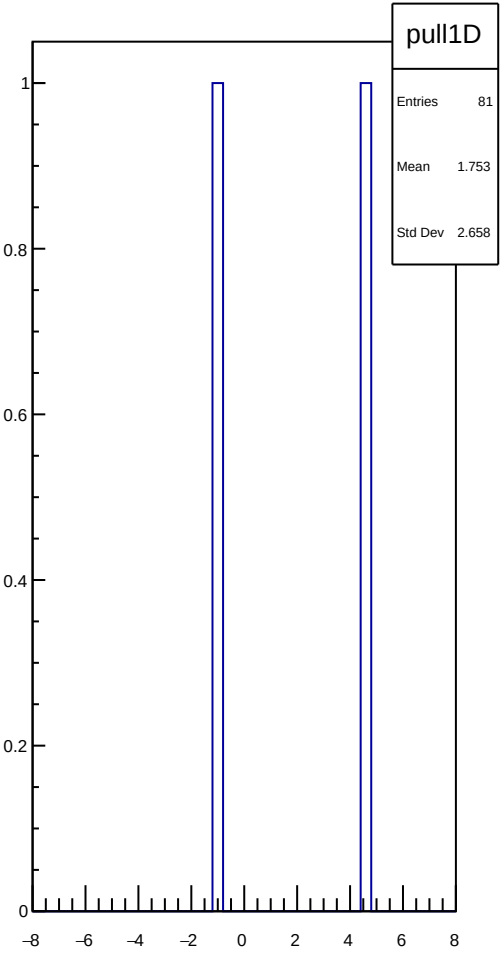

yield_sam6_rms vs run
χ² / ndf 8.749e+04 / 80
p0 0.01898 ± 1.572e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

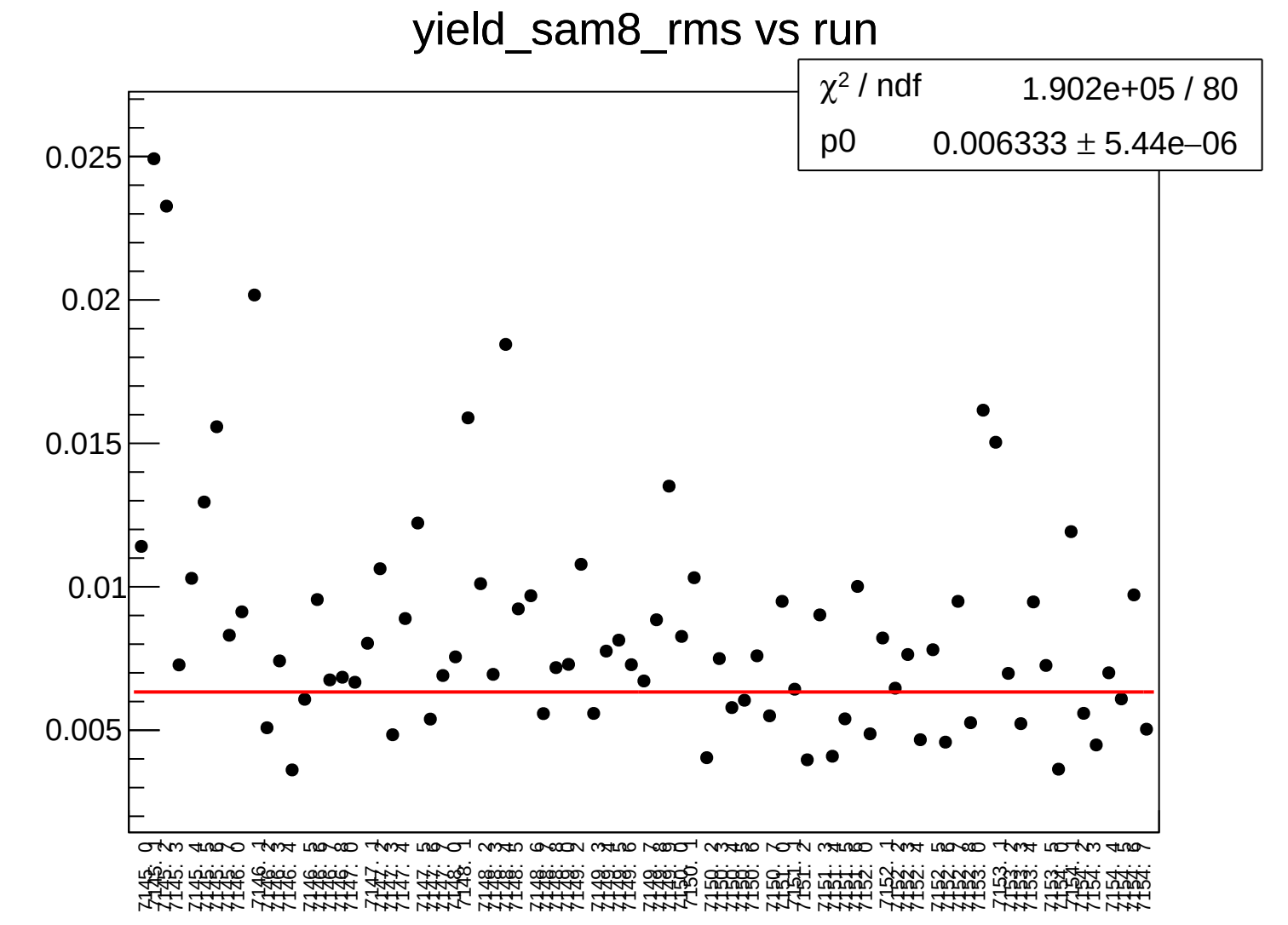

yield_sam7_mean vs run
χ² / ndf 2.822e+06 / 80
p0 2.424 ± 2.178e−06
2.43
2.425
2.42
2.415
2.41
pull
Entries 81
Mean 134.1
Std Dev 88.98
400
200
0
−200
−400
−600

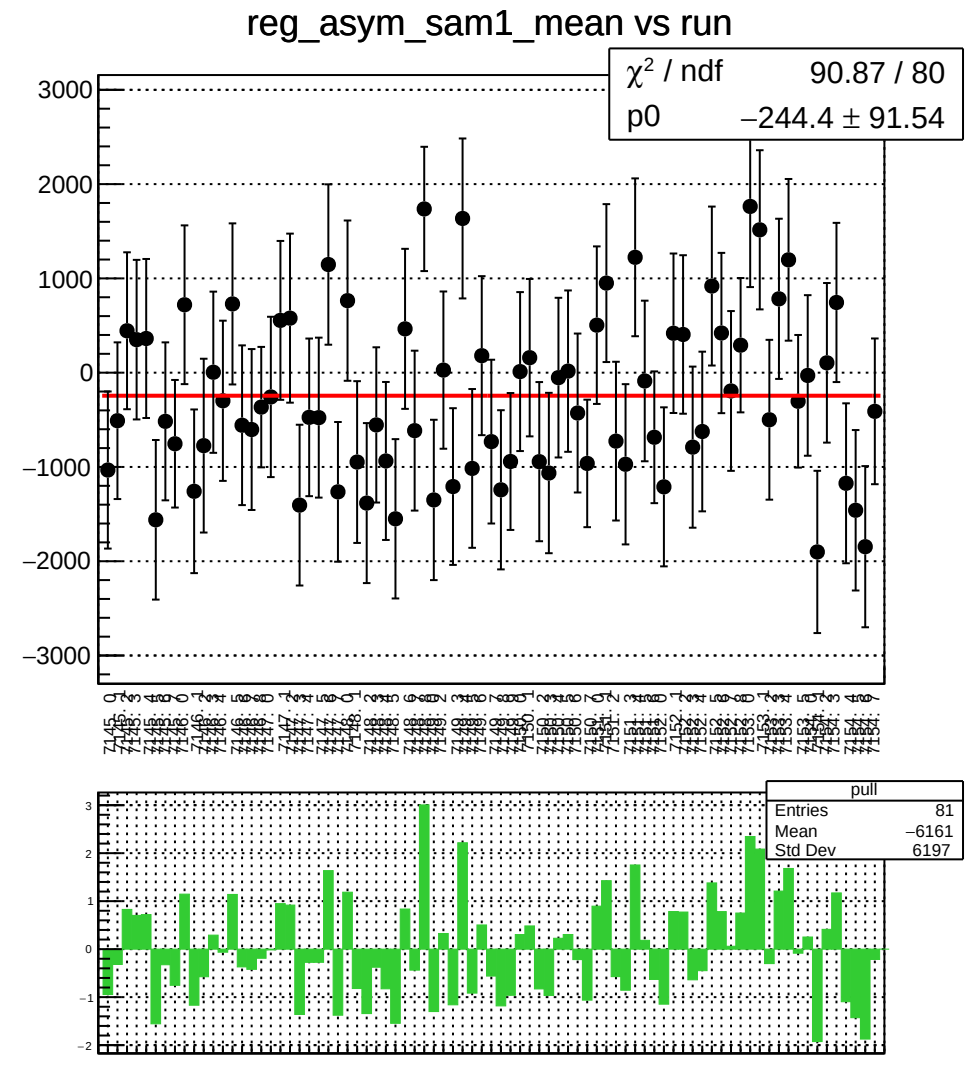

pull1D
Entries 81
Mean −5.242
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

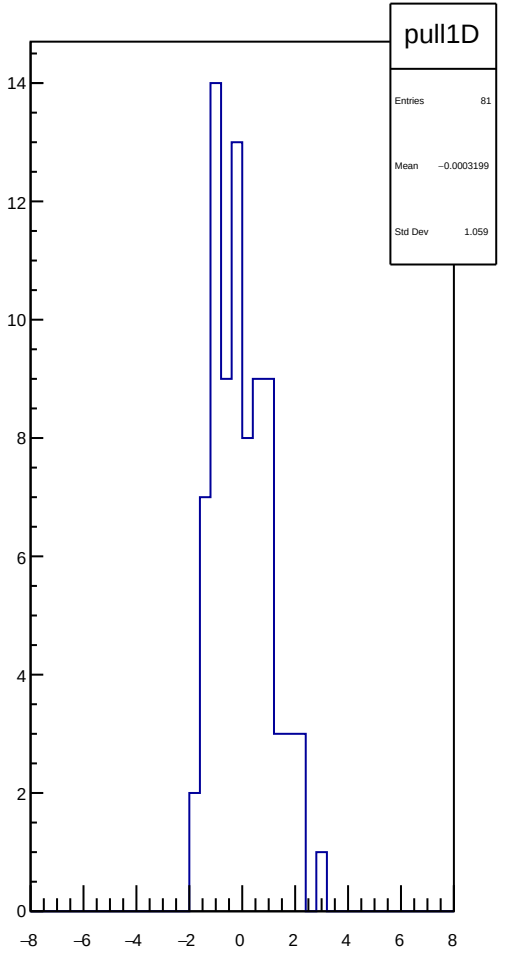

yield_sam7_rms vs run
χ² / ndf 1.594e+05 / 80
p0 0.001813 ± 1.54e−06
0.006
0.005
0.004
0.003
0.002
0.001

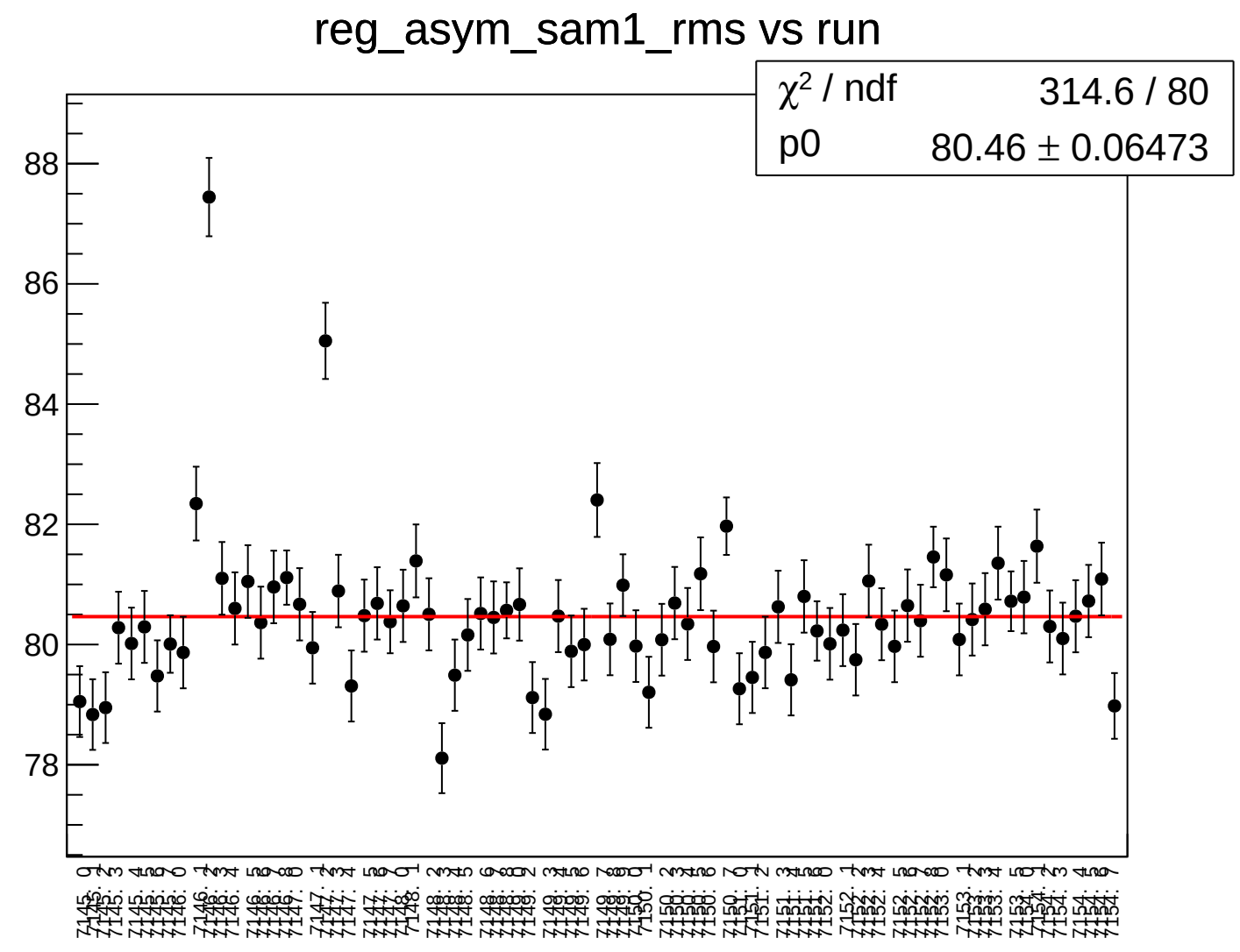

yield_sam8_mean vs run
χ² / ndf 3.269e+06 / 80
p0 8.711± 7.693e−06
8.72
8.7
8.68
8.66
8.64
pull
Entries 81
Mean −12.11
Std Dev 48.97
200
0
−200
−400
−600

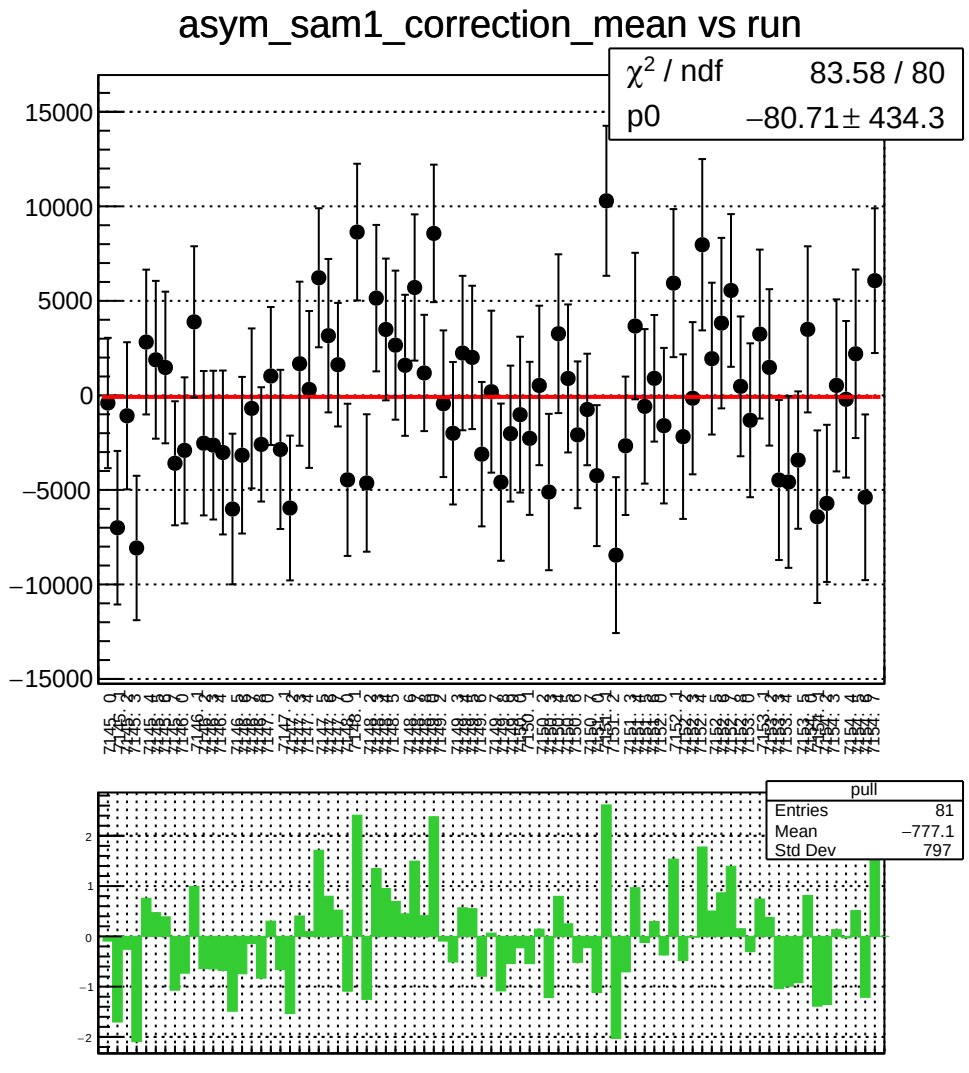

pull1D
Entries 81
Mean 1.753
Std Dev 2.658
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

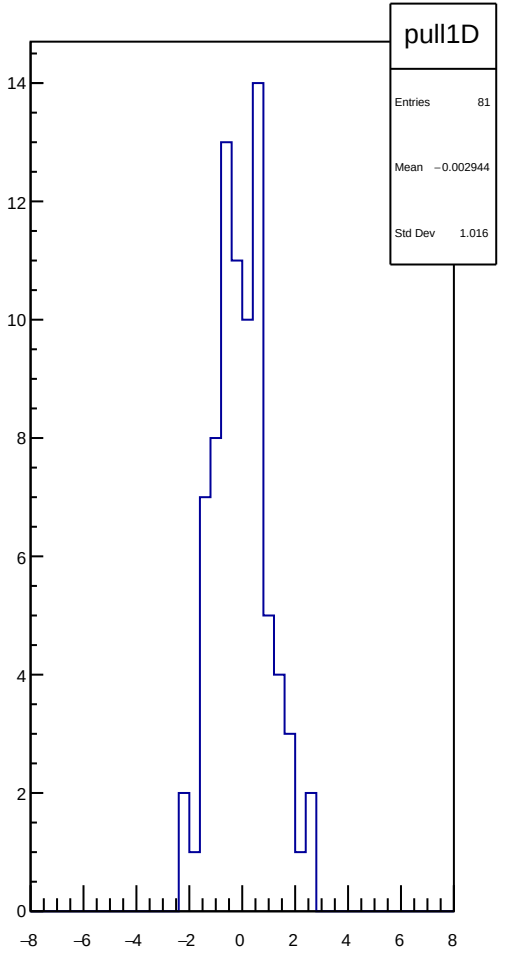

yield_sam8_rms vs run
χ² / ndf 1.902e+05 / 80
p0 0.006333 ± 5.44e−06
0.025
0.02
0.015
0.01
0.005

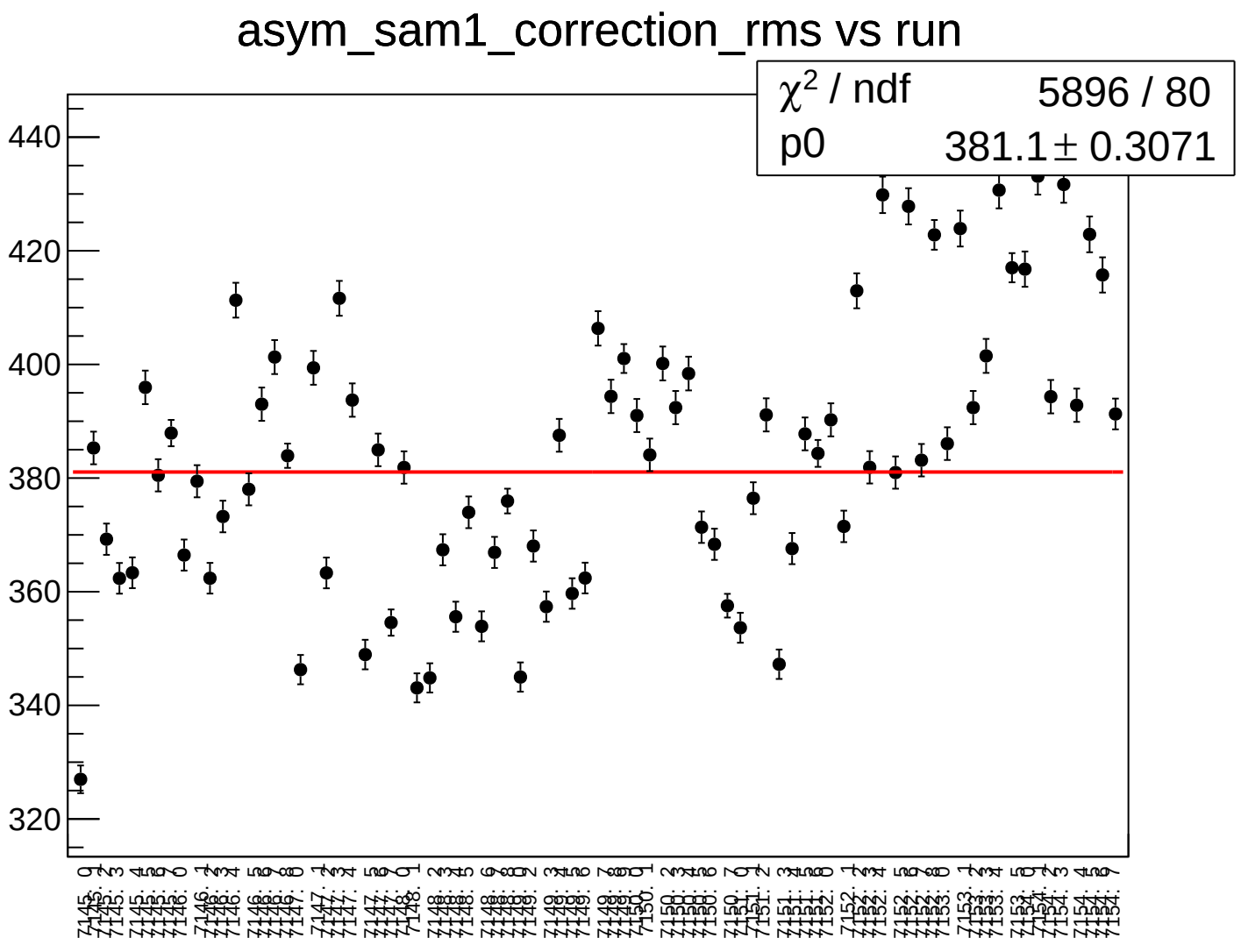

reg_asym_sam1_mean vs run
χ² / ndf 90.87 / 80
p0 −244.4 ± 91.54
pull
Entries 81
Mean −6161
Std Dev 6197

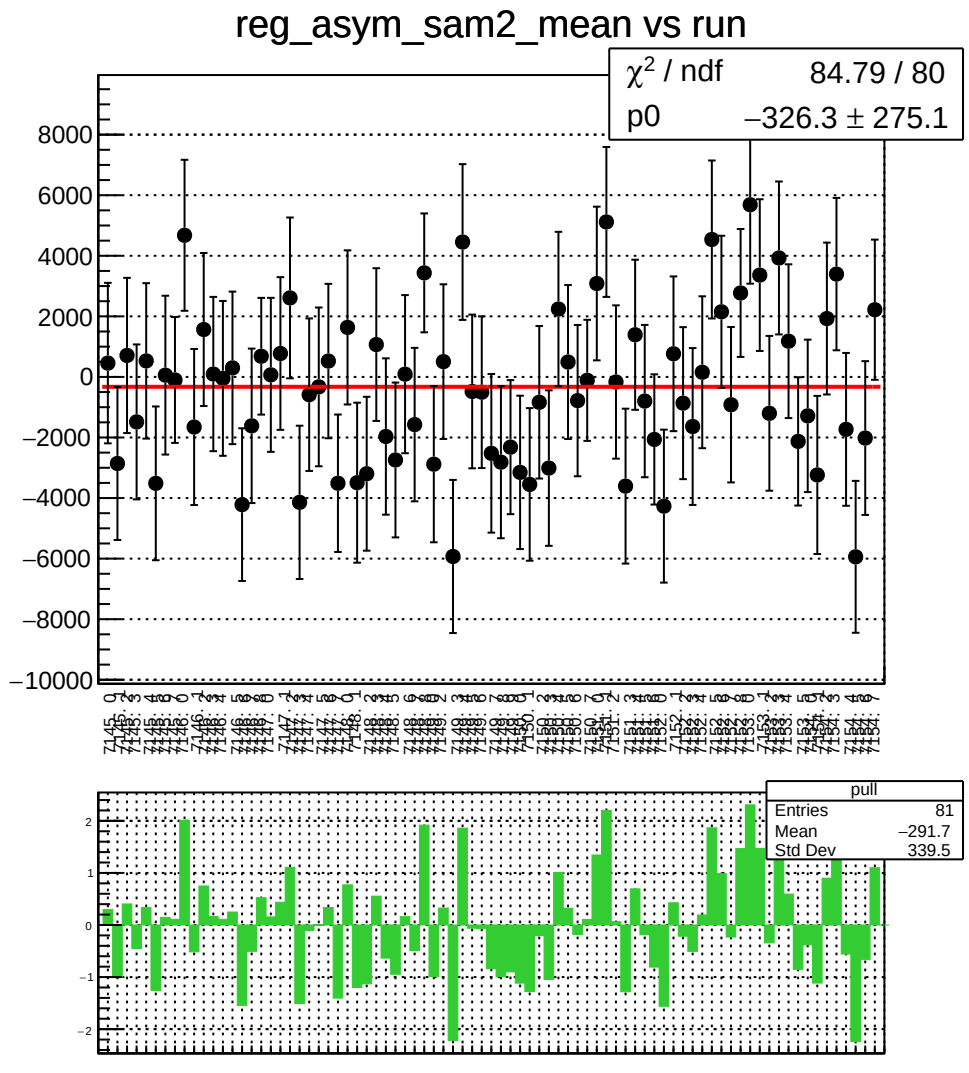

pull1D
Entries 81
Mean −0.0003199
Std Dev 1.059

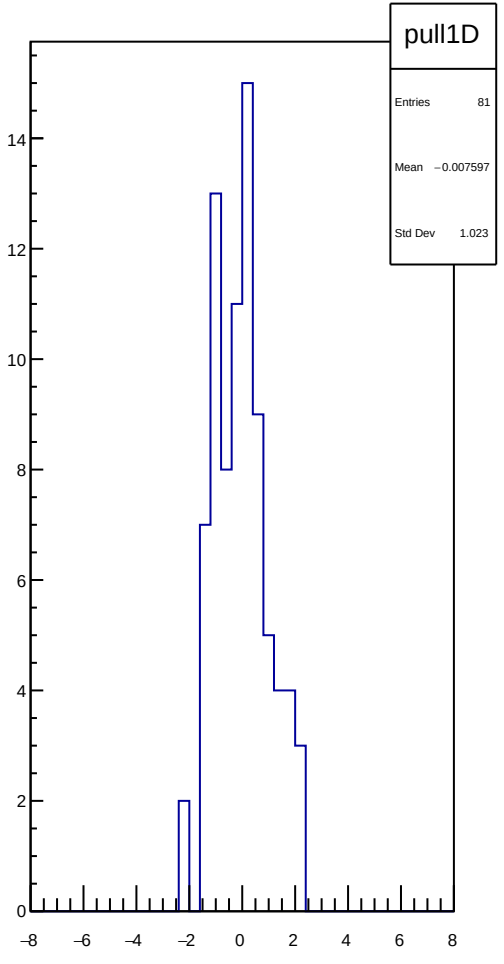

reg_asym_sam1_rms vs run
χ² / ndf 314.6 / 80
p0 80.46 ± 0.06473
88
86
84
82
80
78

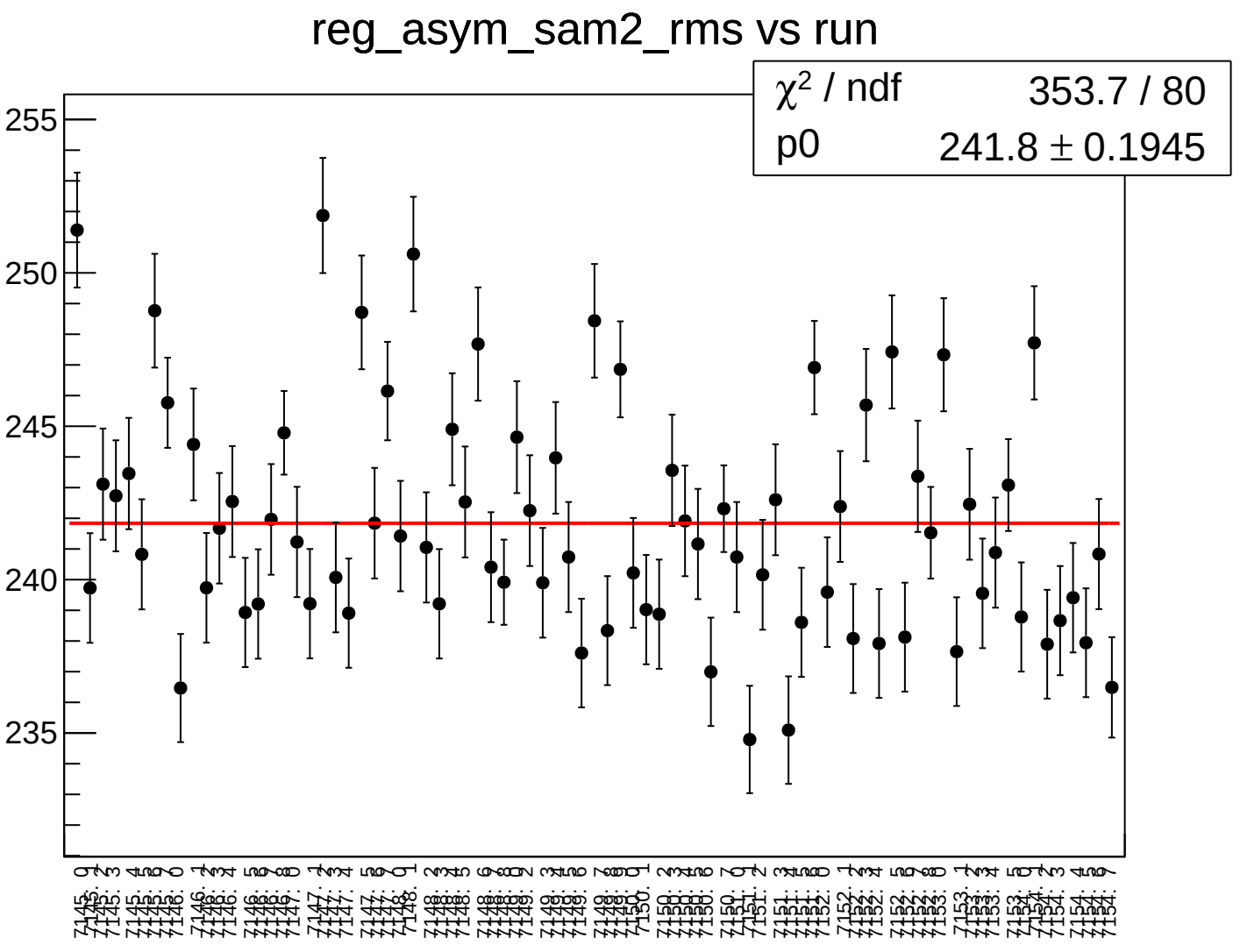

asym_sam1_correction_mean vs run
χ² / ndf 83.58 / 80
p0 −80.71 ± 434.3
pull
Entries 81
Mean −777.1
Std Dev 797

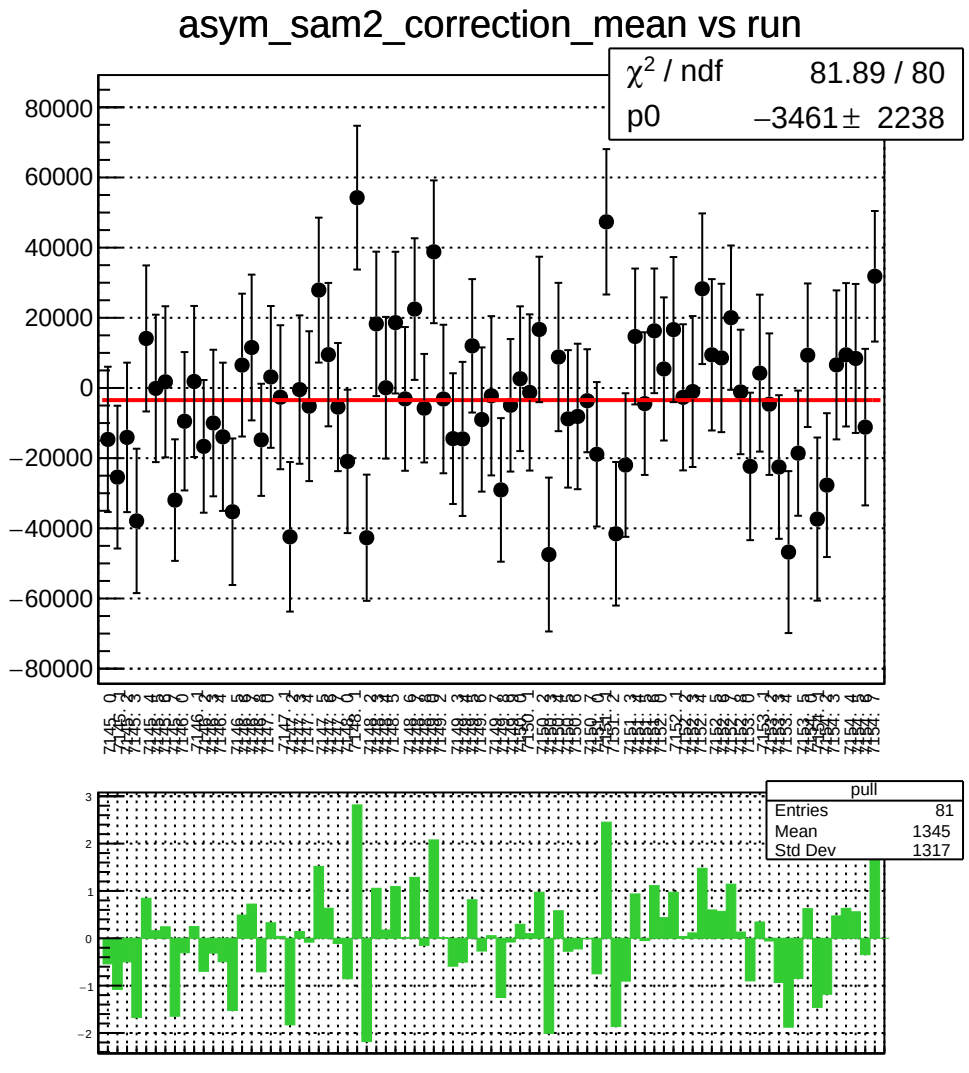

pull1D
Entries 81
Mean −0.002944
Std Dev 1.016

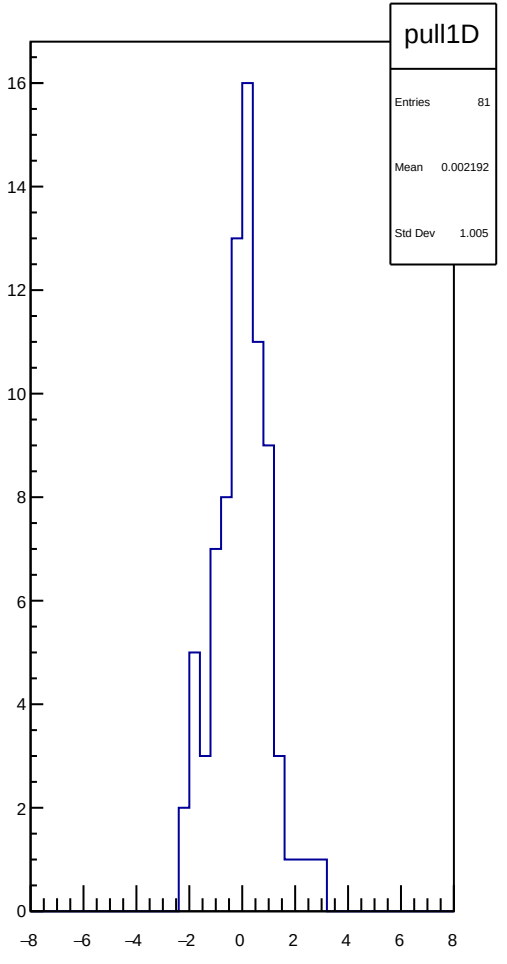

asym_sam1_correction_rms vs run
χ^2 / ndf 5896 / 80
p0 381.1 ± 0.3071
440
420
400
380
360
340
320

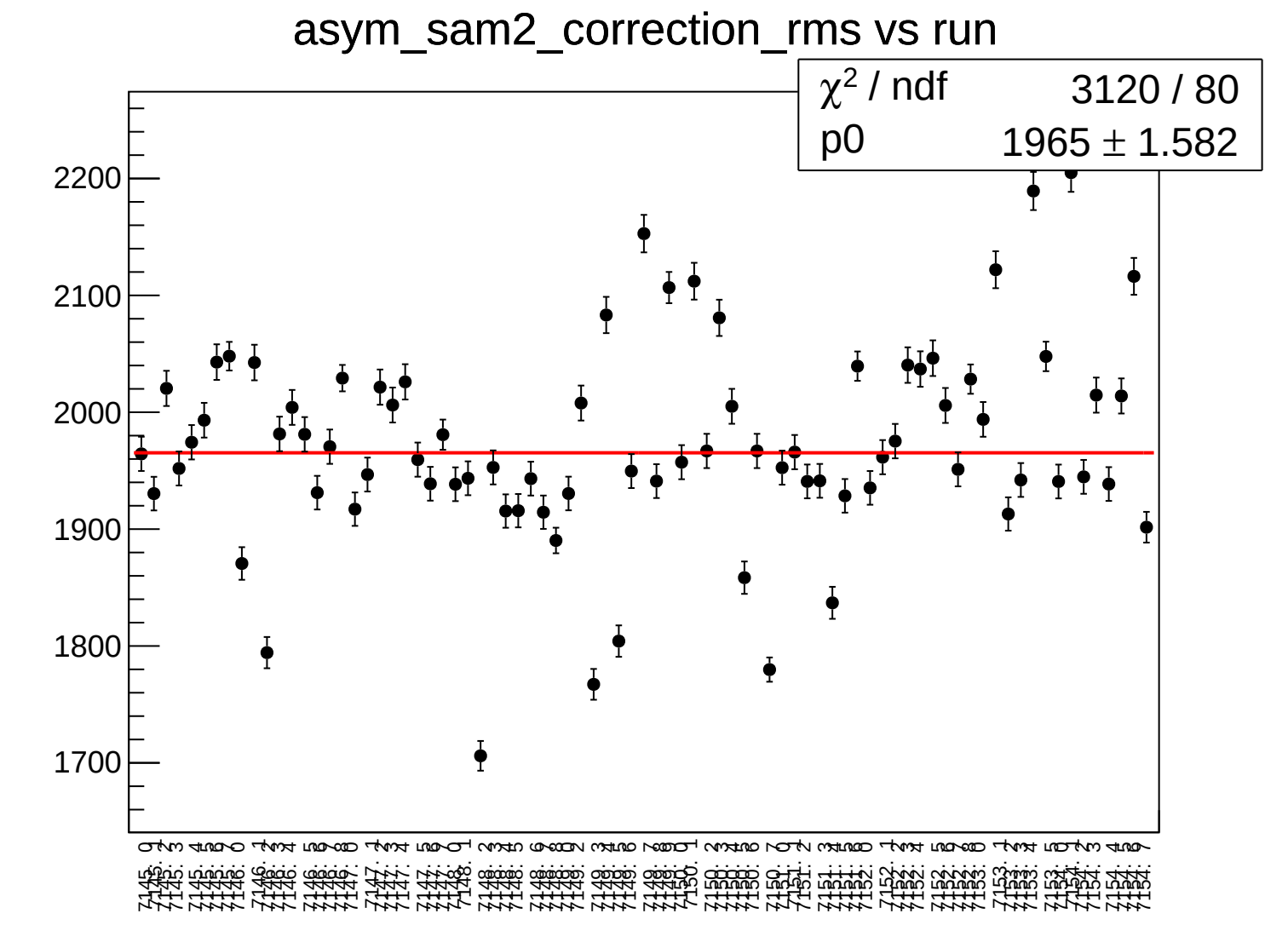

reg_asym_sam2_mean vs run
χ² / ndf 84.79 / 80
p0 −326.3 ± 275.1
pull
Entries 81
Mean −291.7
Std Dev 339.5

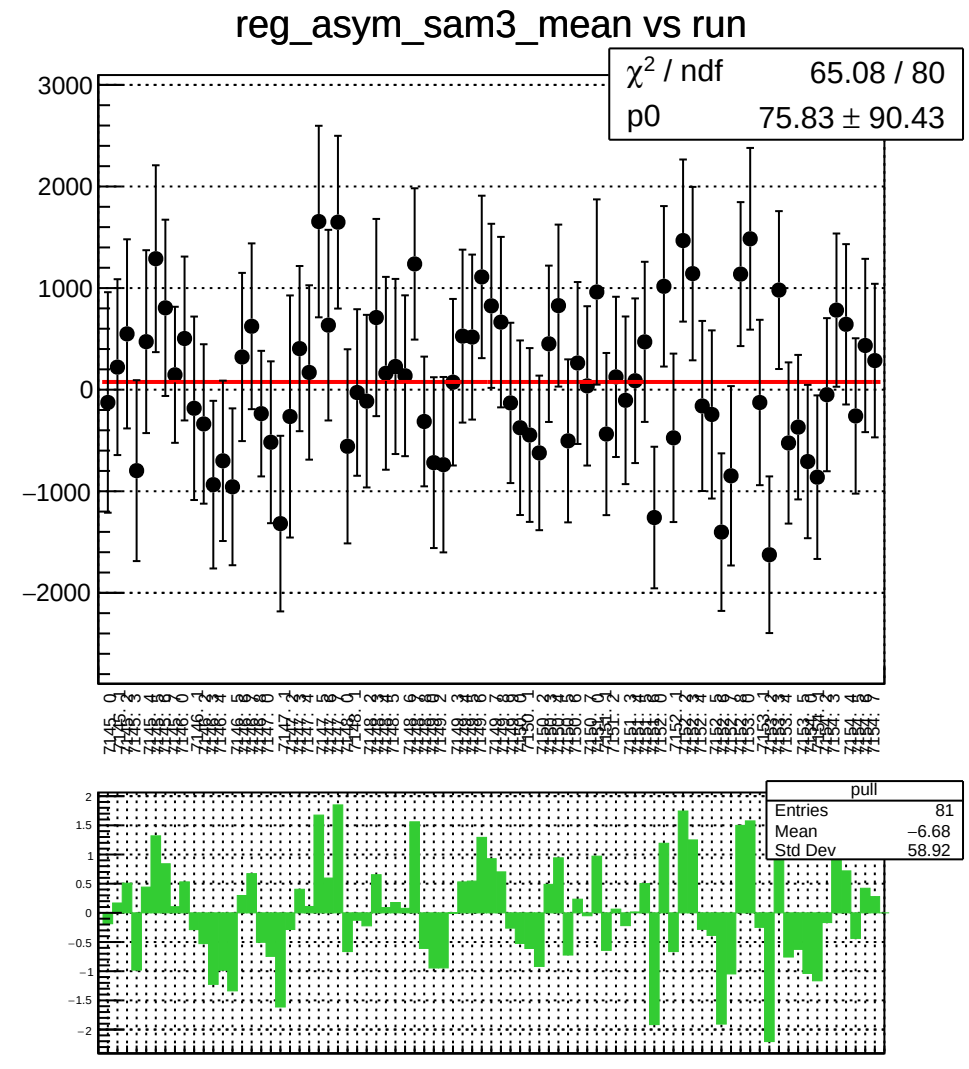

pull1D
Entries 81
Mean −0.007597
Std Dev 1.023

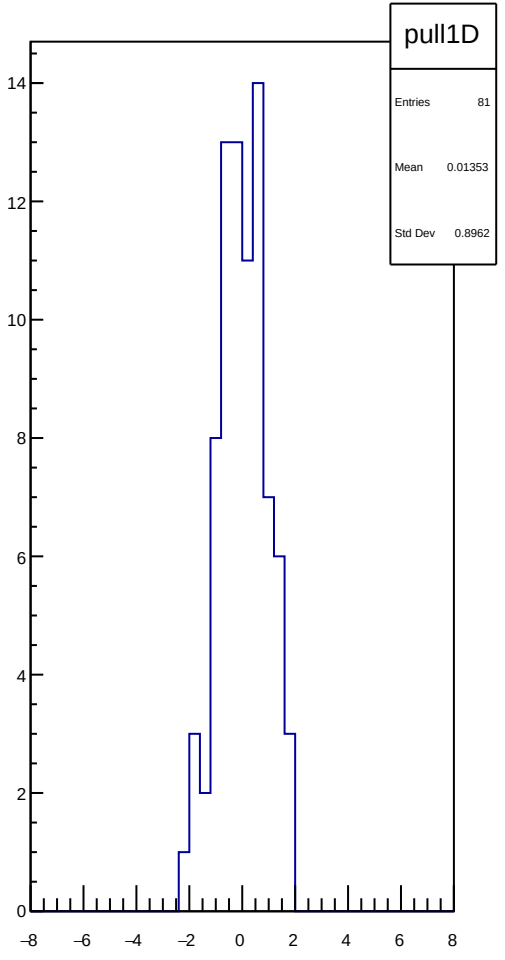

reg_asym_sam2_rms vs run
χ² / ndf 353.7 / 80
p0 241.8 ± 0.1945
255
250
245
240
235

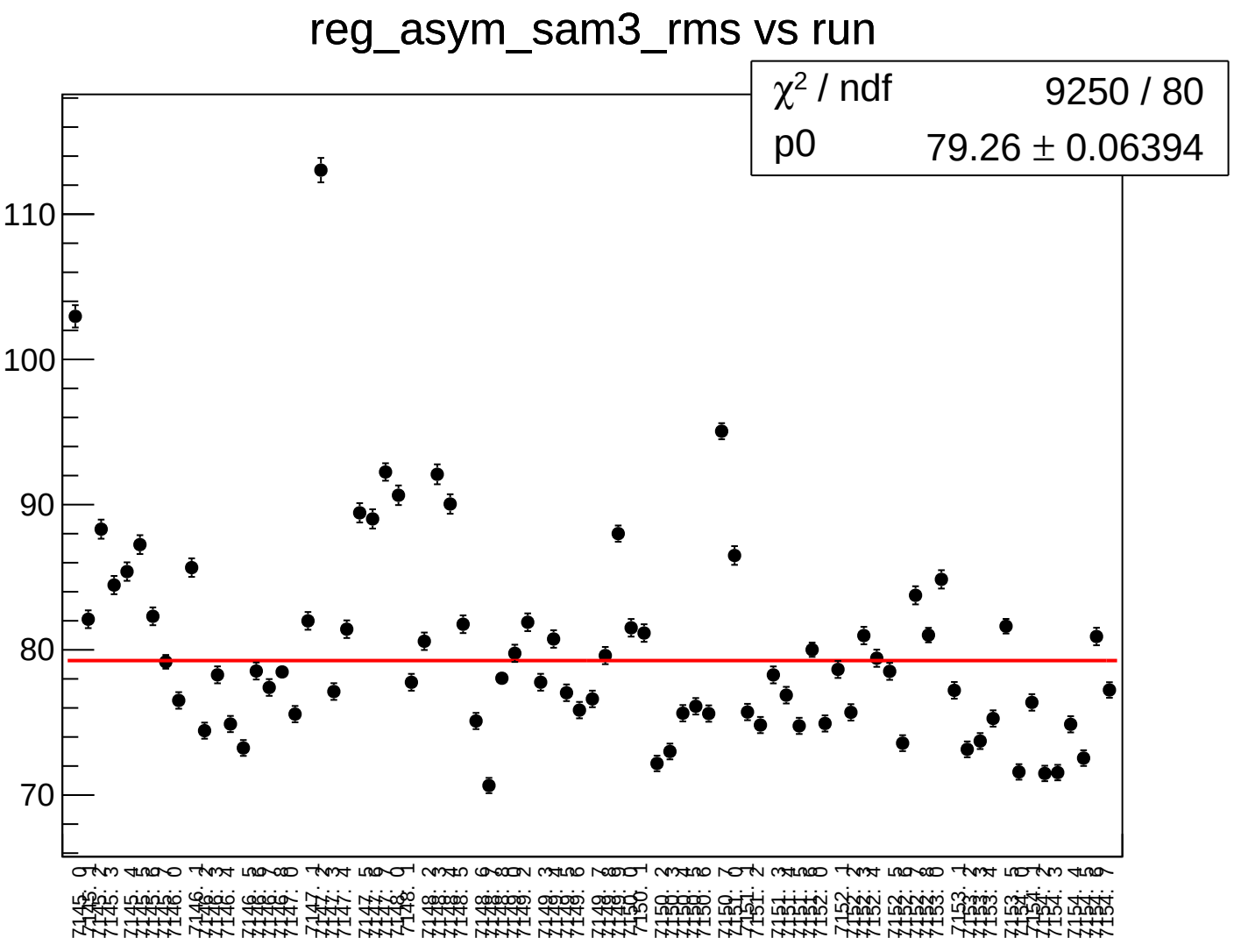

asym_sam2_correction_mean vs run
χ² / ndf 81.89 / 80
p0 −3461 ± 2238
pull
Entries 81
Mean 1345
Std Dev 1317

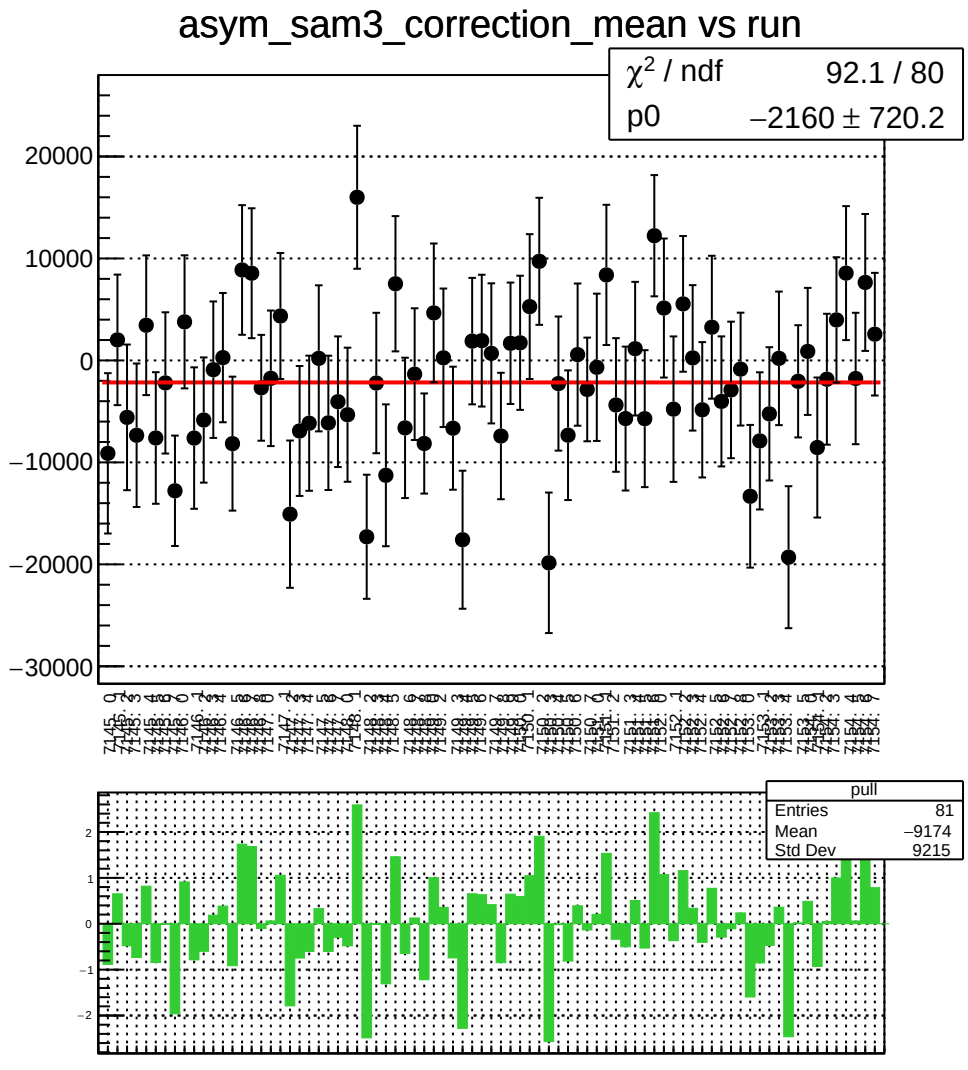

pull1D
Entries 81
Mean 0.002192
Std Dev 1.005

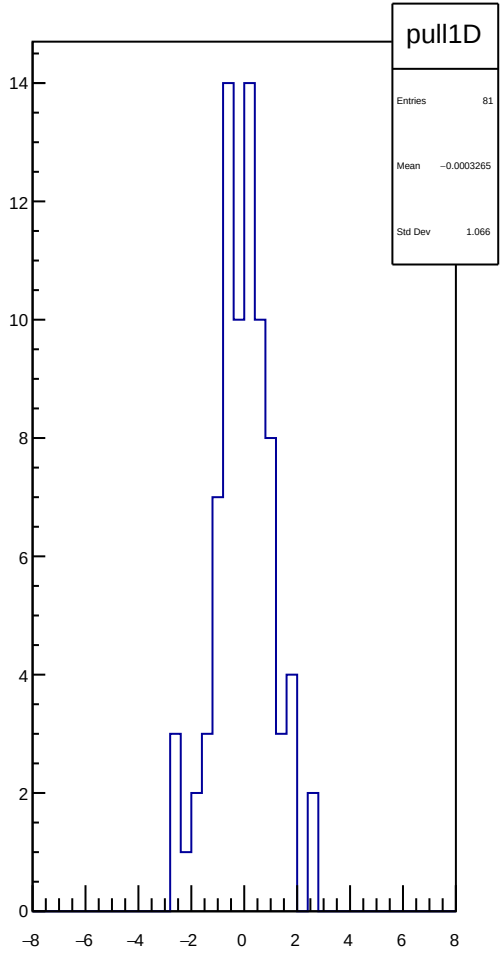

asym_sam2_correction_rms vs run
χ² / ndf 3120 / 80
p0 1965 ± 1.582
2200
2100
2000
1900
1800
1700

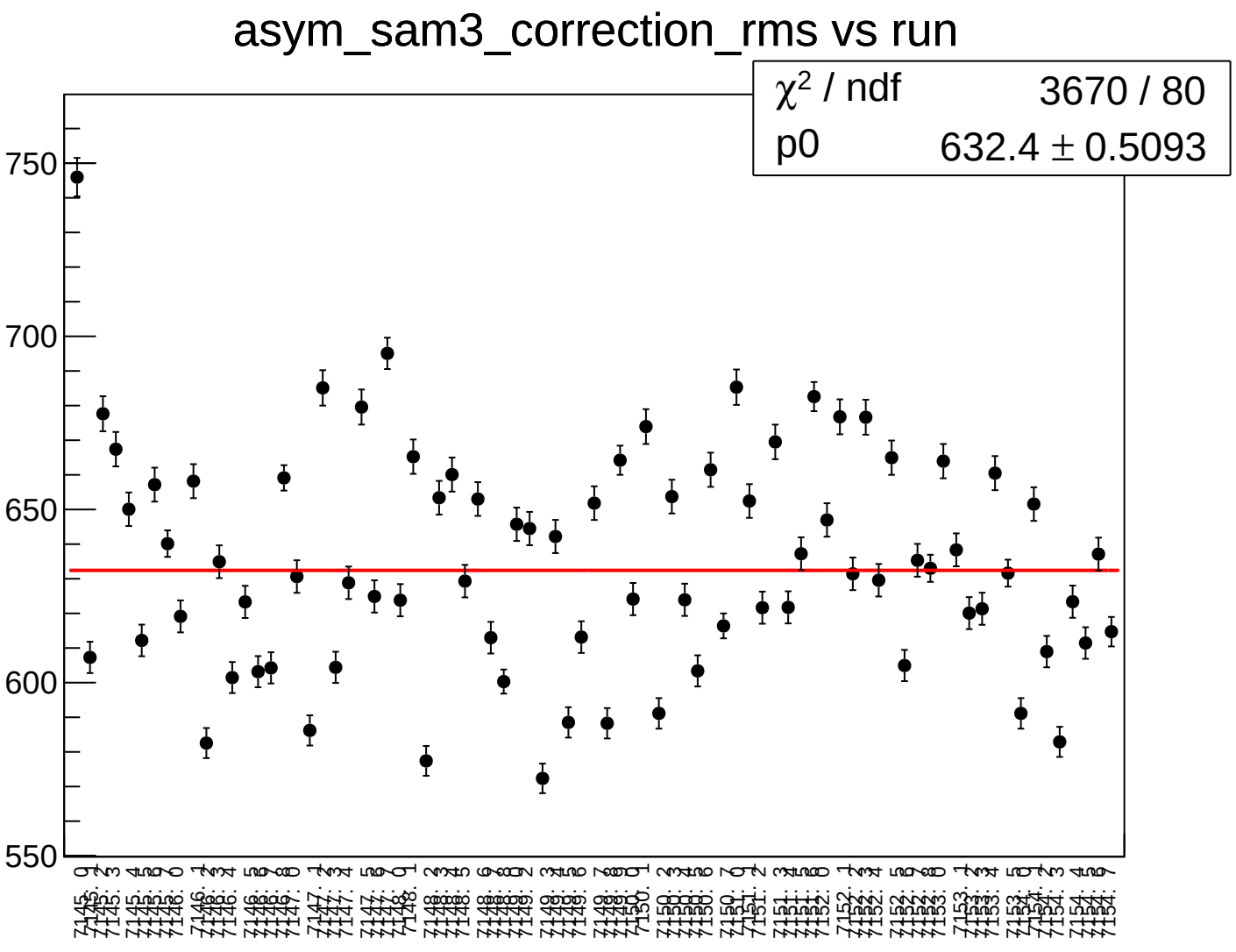

reg_asym_sam3_mean vs run
χ² / ndf 65.08 / 80
p0 75.83 ± 90.43
pull
Entries 81
Mean −6.68
Std Dev 58.92

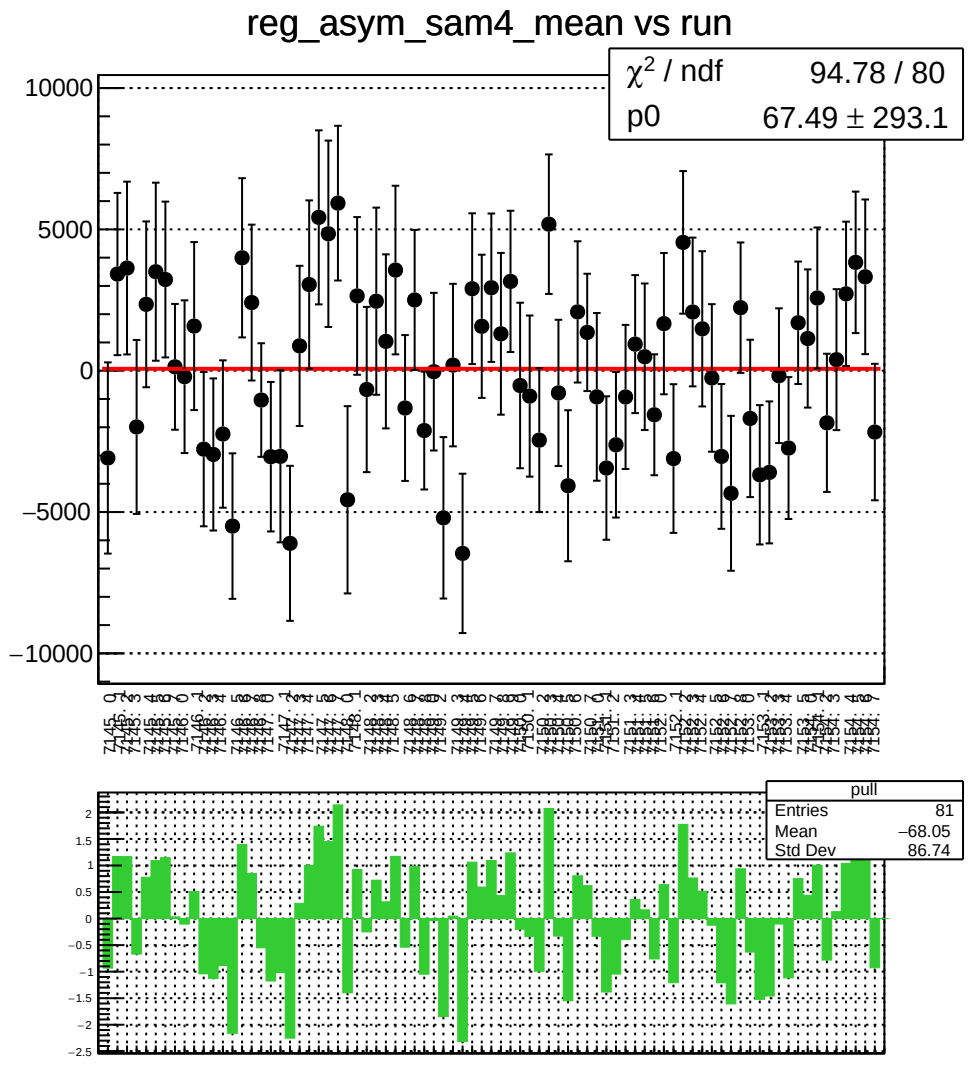

pull1D
Entries 81
Mean 0.01353
Std Dev 0.8962

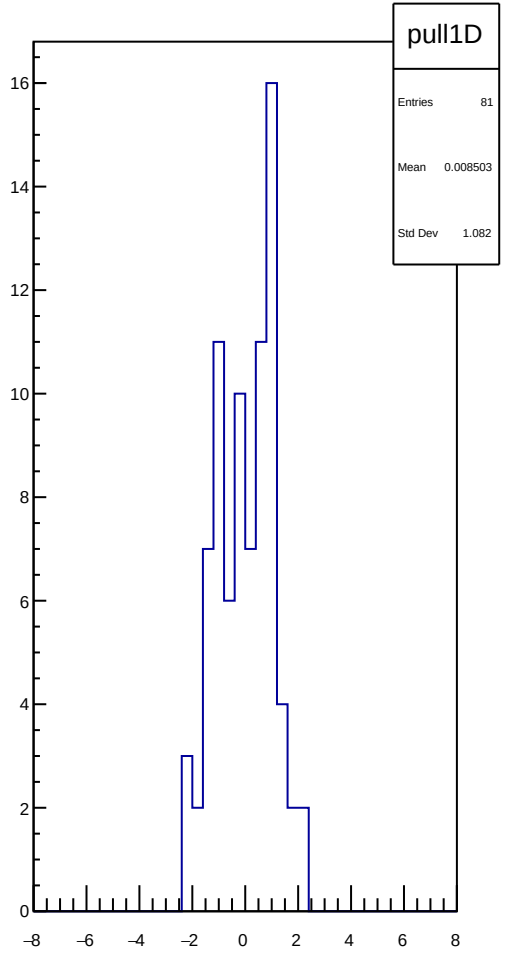

reg_asym_sam3_rms vs run
χ^2 / ndf 9250 / 80
p0 79.26 ± 0.06394
110
100
90
80
70

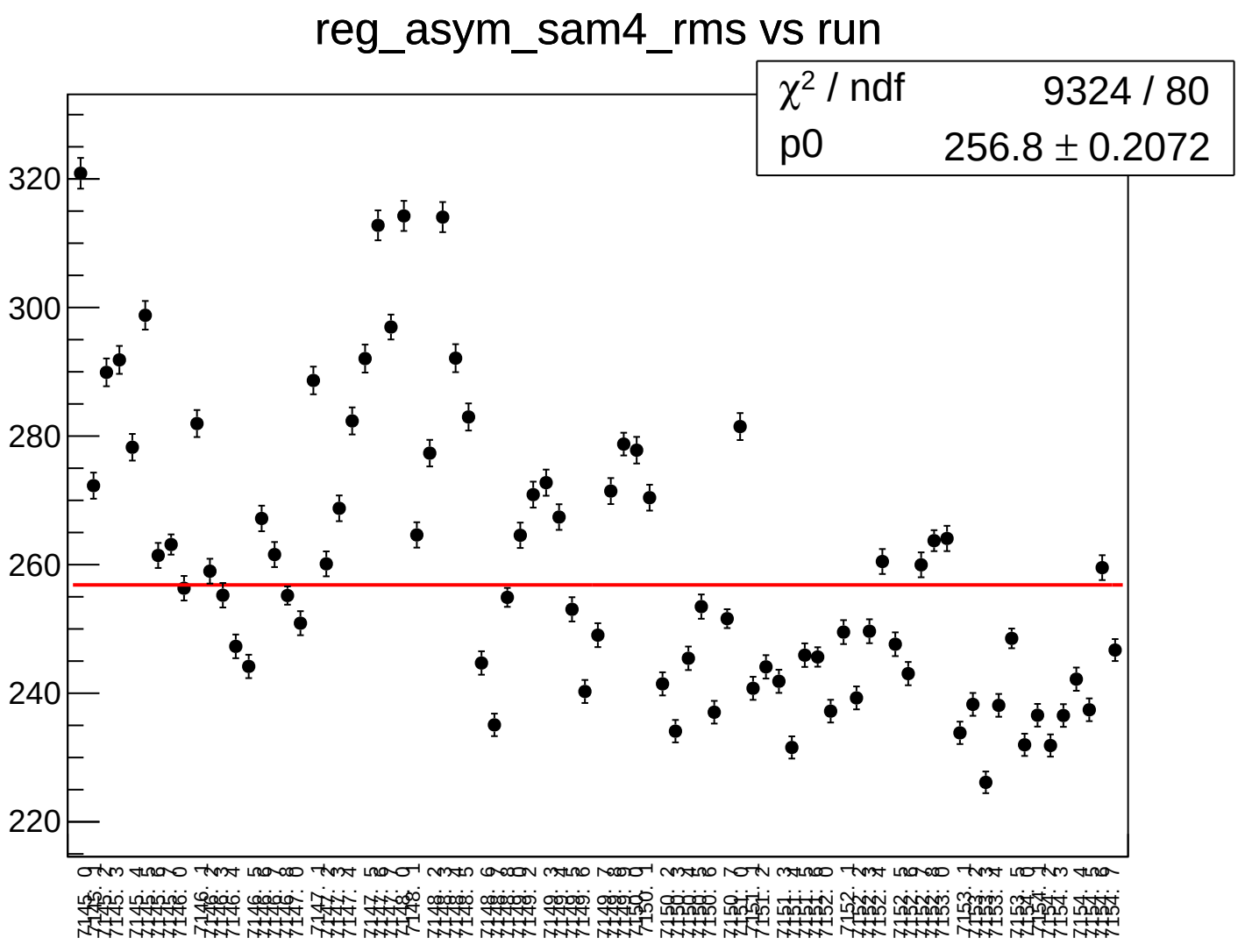

asym_sam3_correction_mean vs run
χ² / ndf 92.1 / 80
p0 −2160 ± 720.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −9174
Std Dev 9215
2
1
0
−1
−2

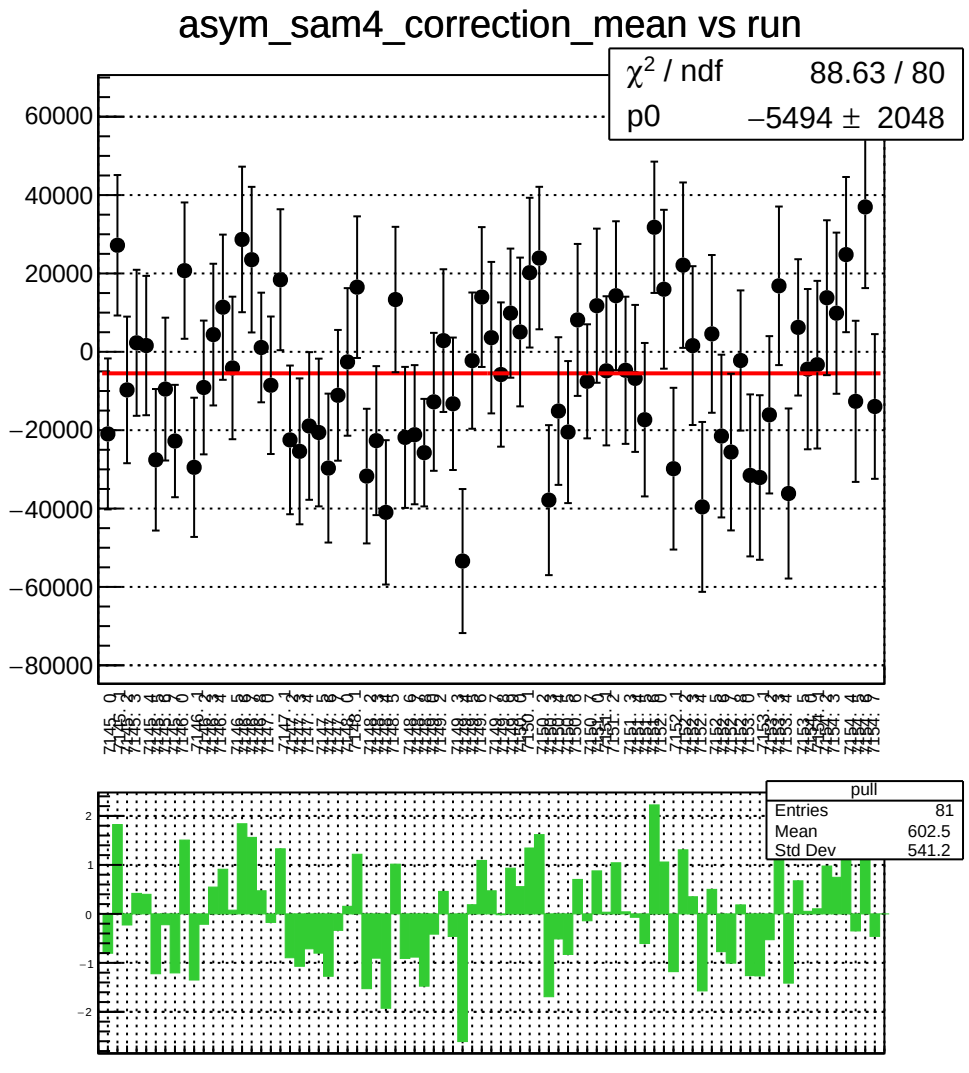

pull1D
Entries 81
Mean −0.0003265
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

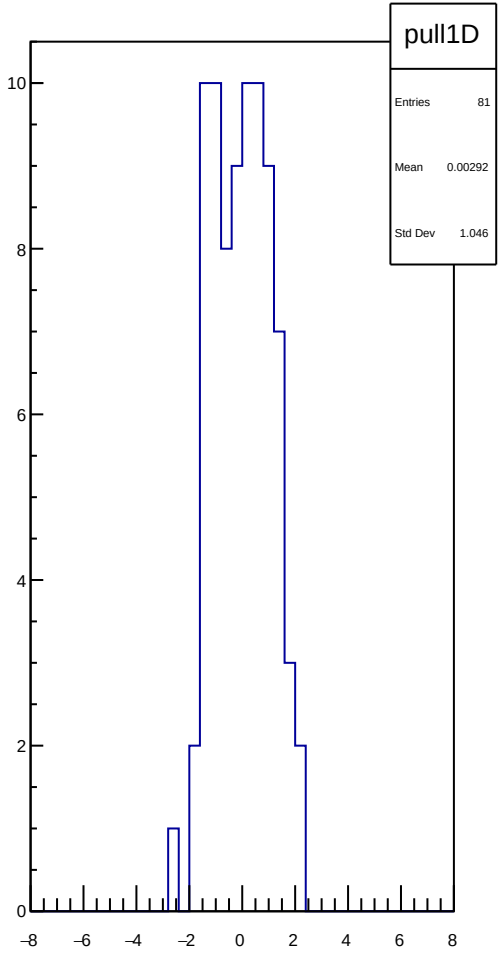

asym_sam3_correction_rms vs run
χ² / ndf 3670 / 80
p0 632.4 ± 0.5093
750
700
650
600
550

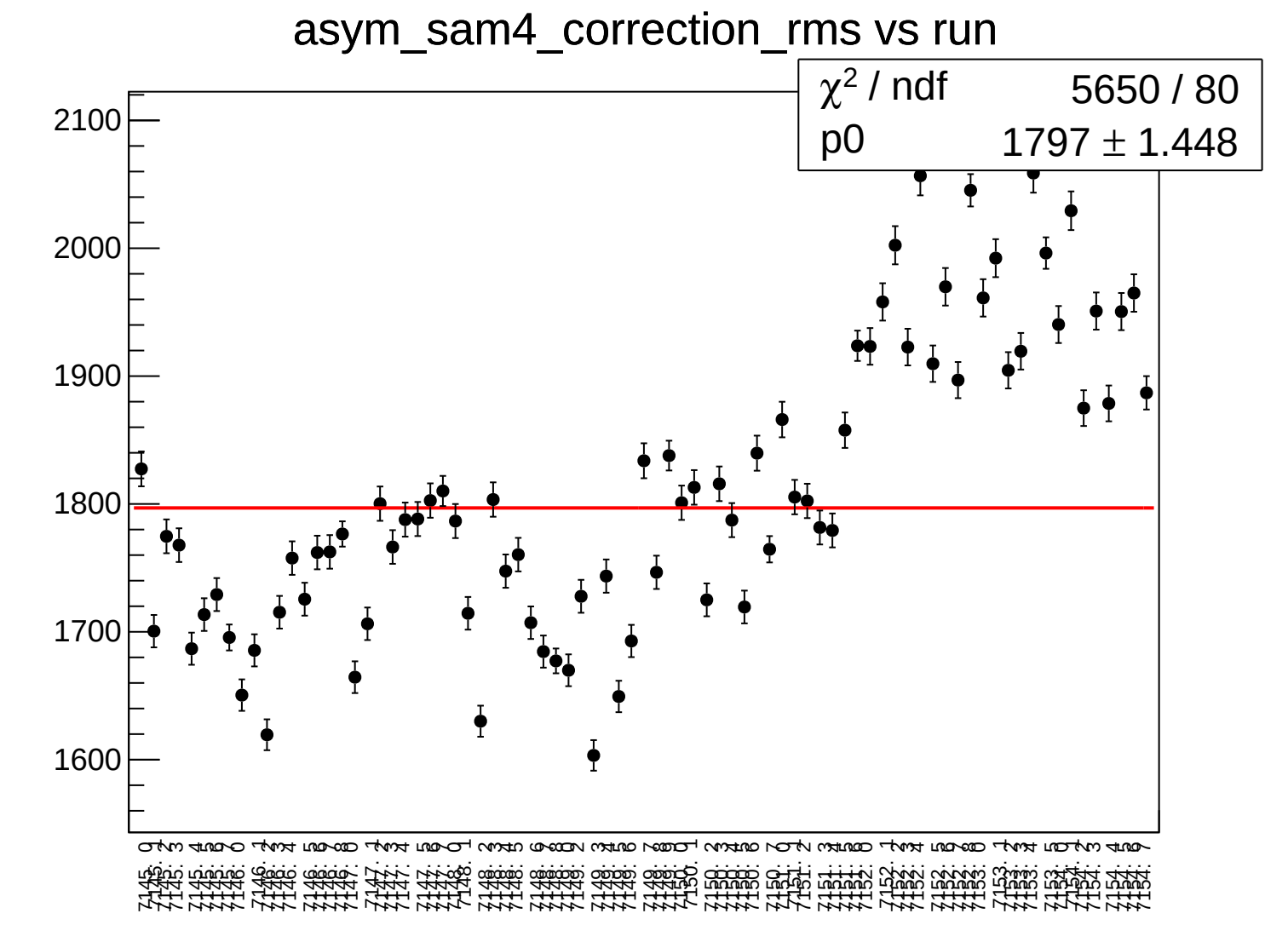

reg_asym_sam4_mean vs run
χ² / ndf 94.78 / 80
p0 67.49 ± 293.1
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −68.05
Std Dev 86.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

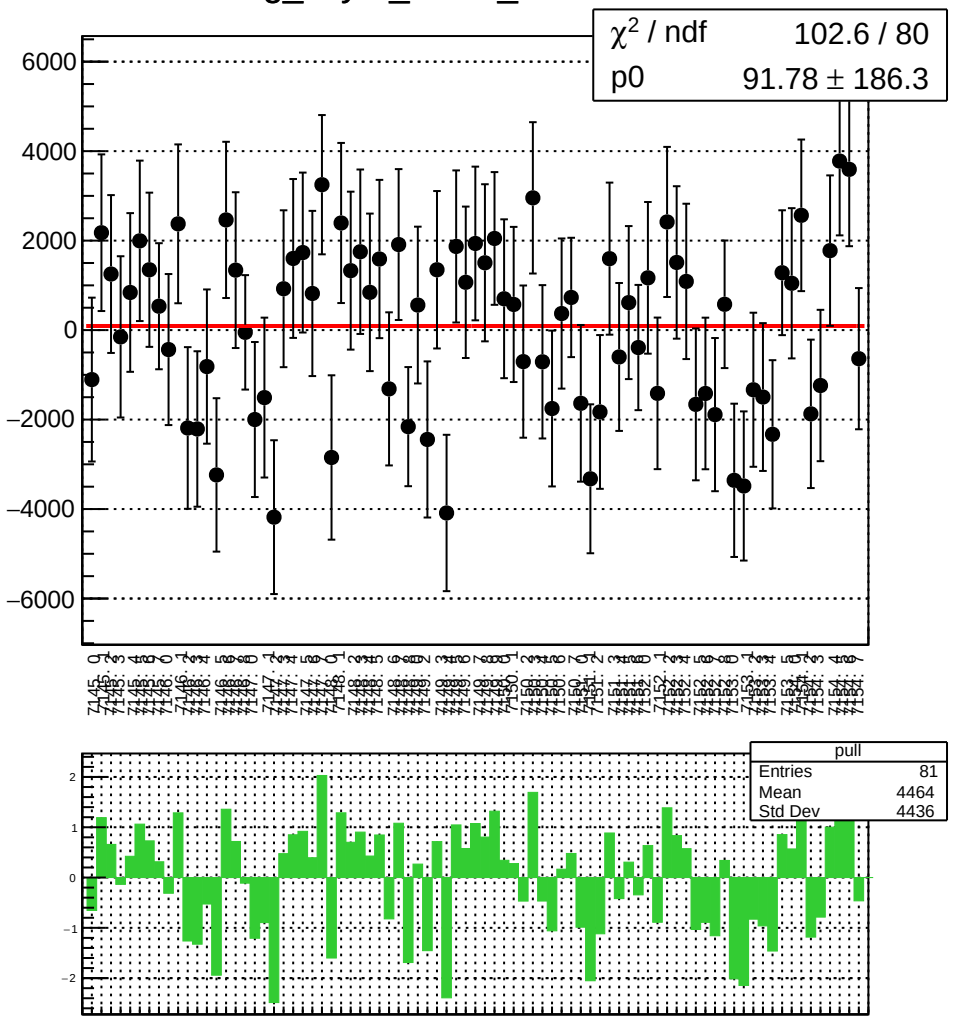

pull1D
Entries 81
Mean 0.008503
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

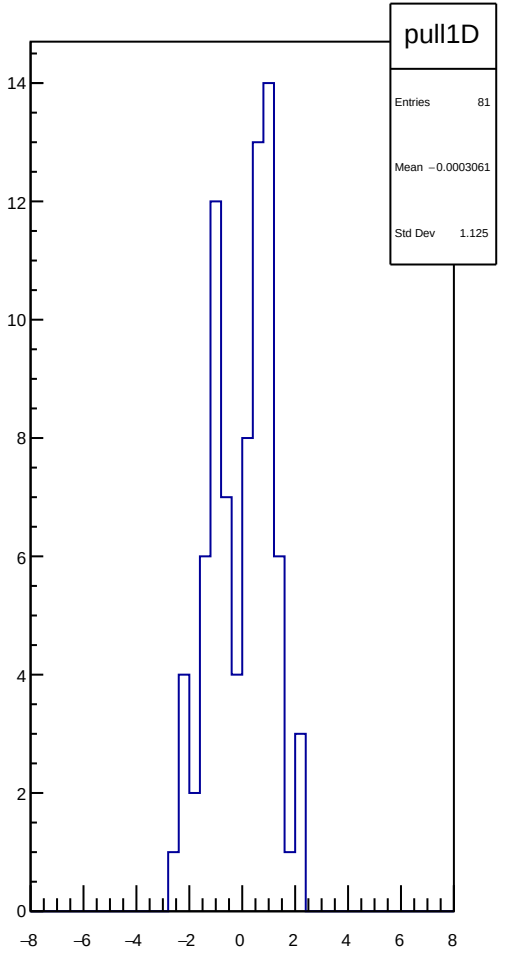

reg_asym_sam4_rms vs run
χ² / ndf 9324 / 80
p0 256.8 ± 0.2072
320
300
280
260
240
220

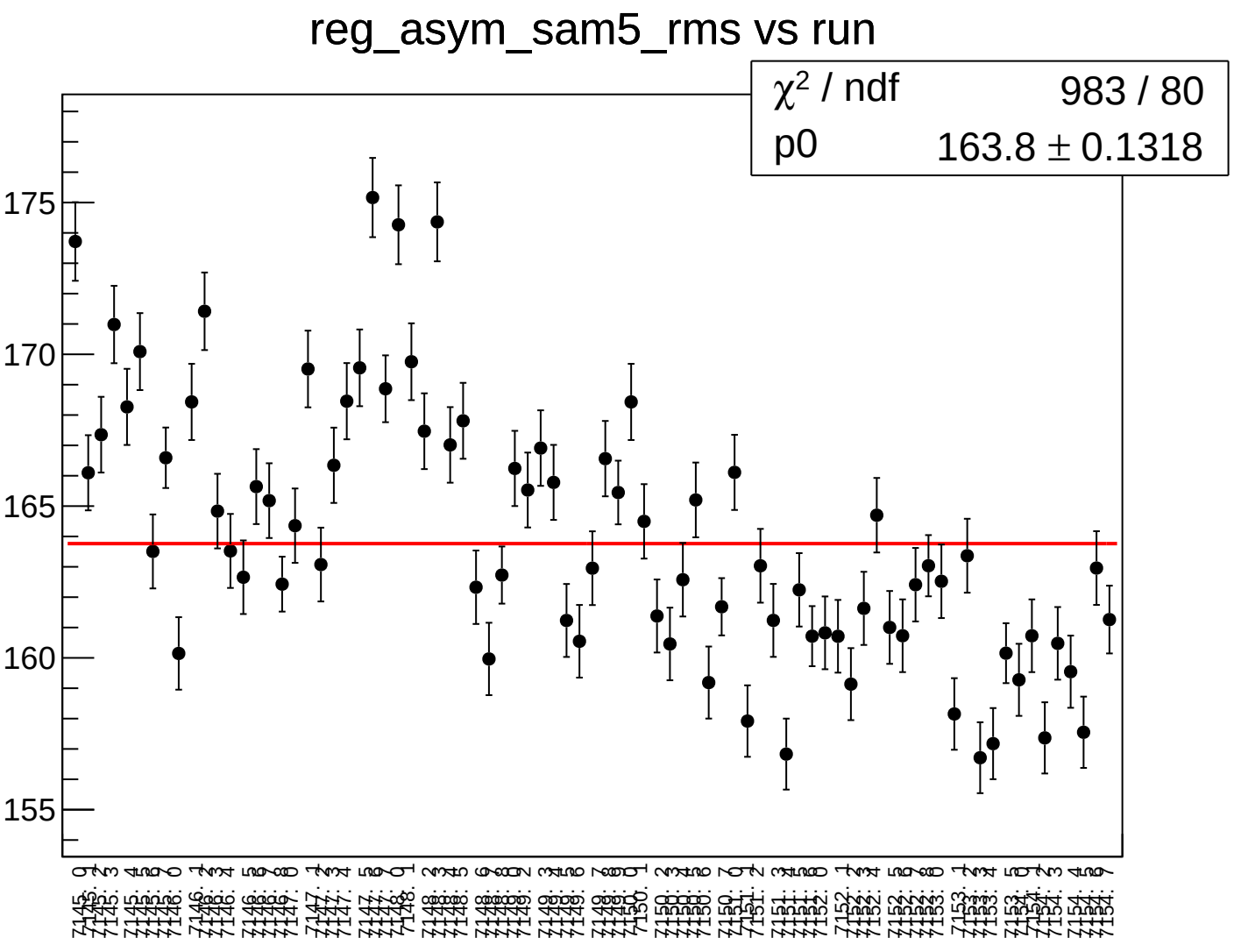

asym_sam4_correction_mean vs run
χ² / ndf 88.63 / 80
p0 −5494 ± 2048
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean 602.5
Std Dev 541.2
2
1
0
−1
−2

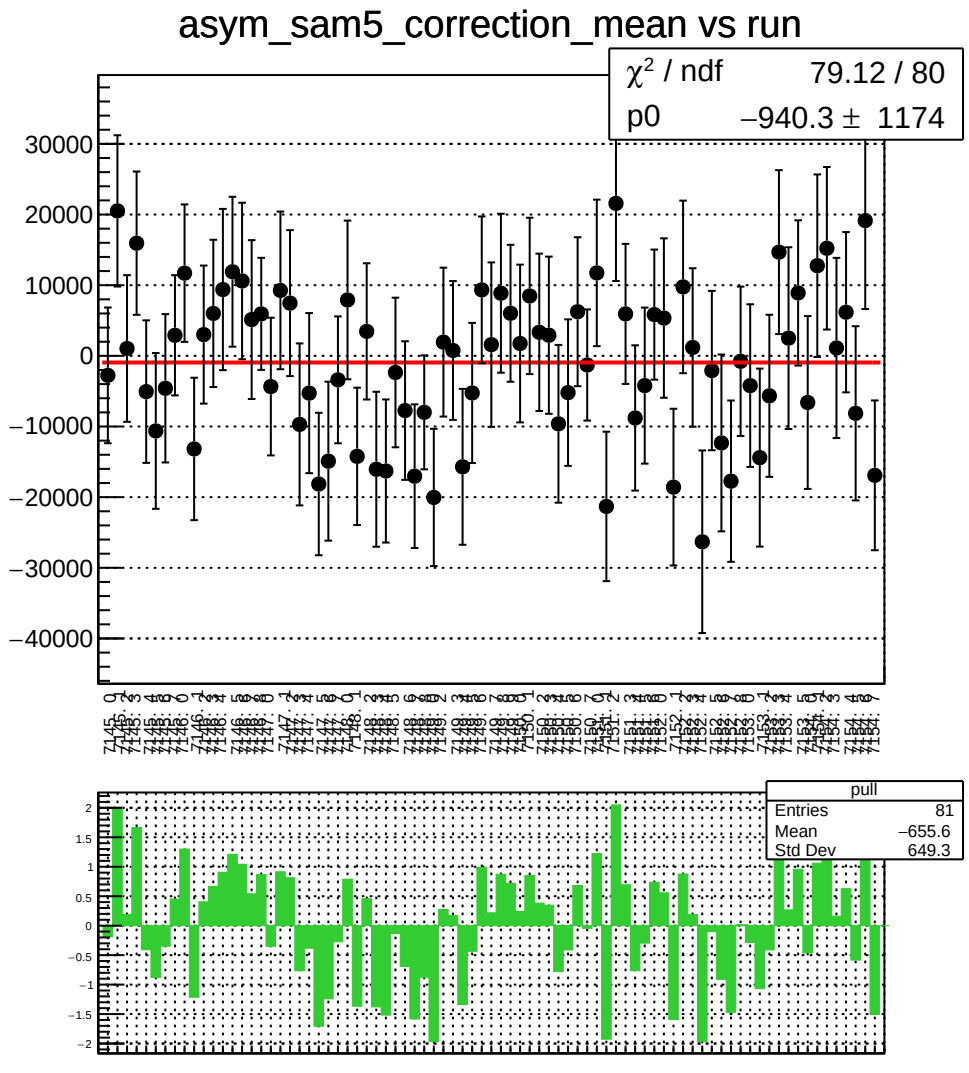

pull1D
Entries 81
Mean 0.00292
Std Dev 1.046
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

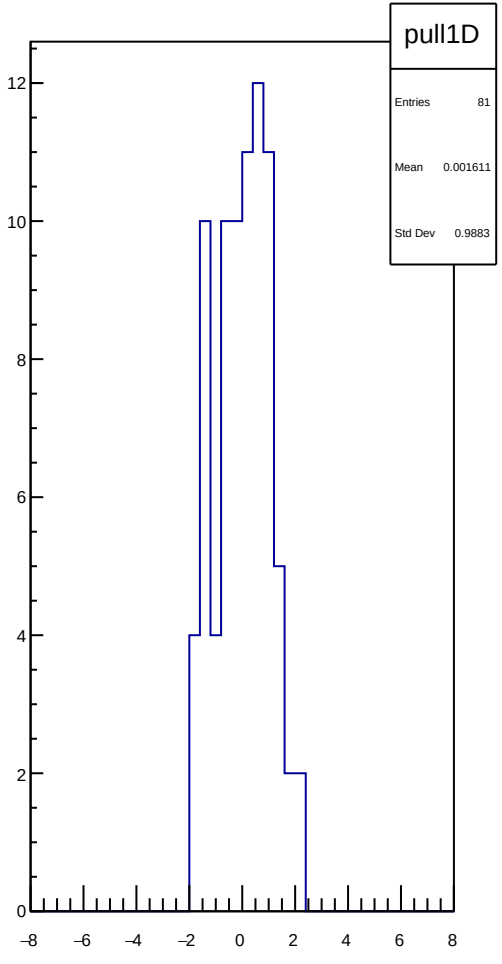

asym_sam4_correction_rms vs run
χ² / ndf 5650 / 80
p0 1797 ± 1.448
2100
2000
1900
1800
1700
1600

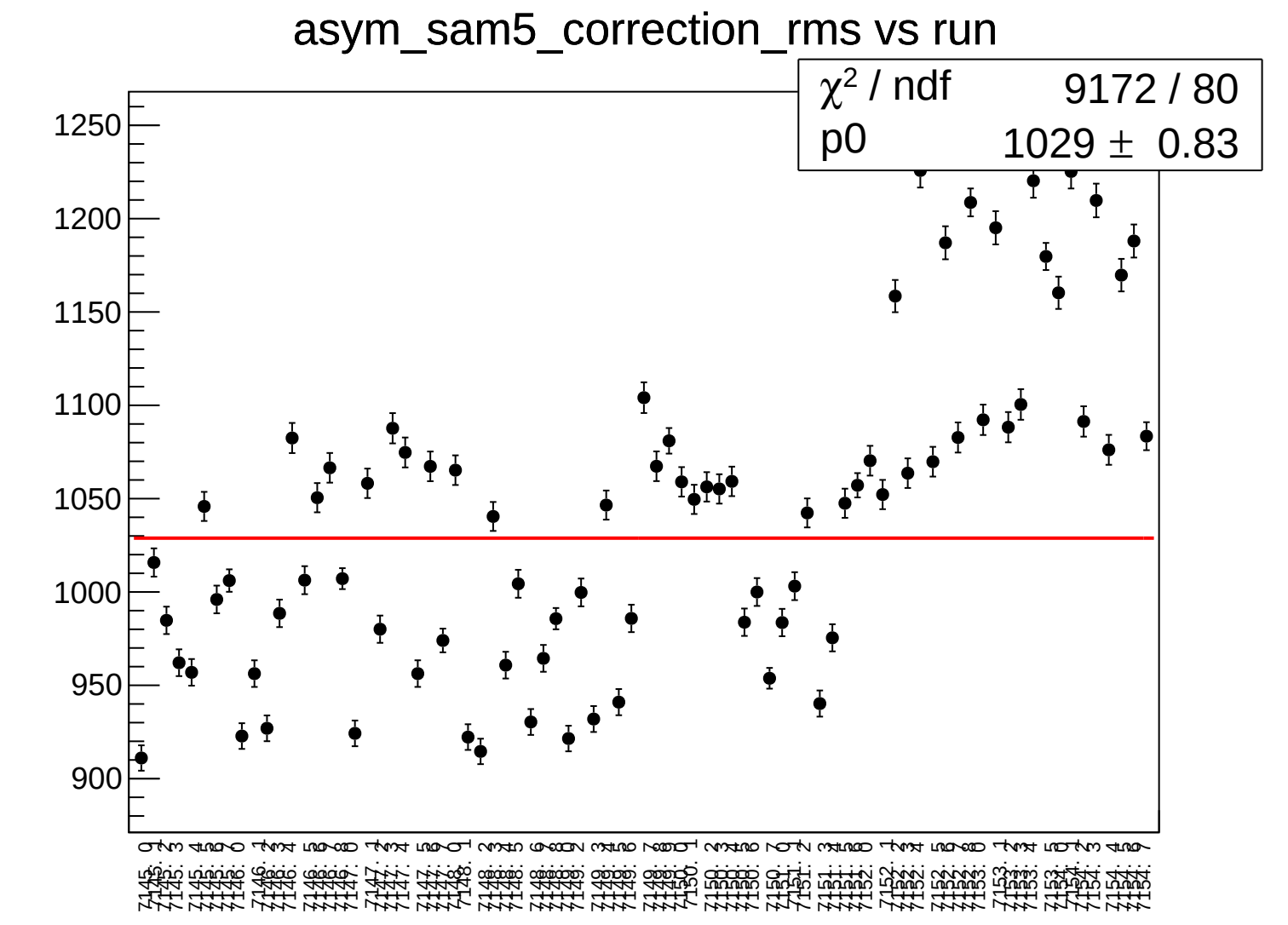

reg_asym_sam5_mean vs run
χ² / ndf 102.6 / 80
p0 91.78 ± 186.3
pull
Entries 81
Mean 4464
Std Dev 4436

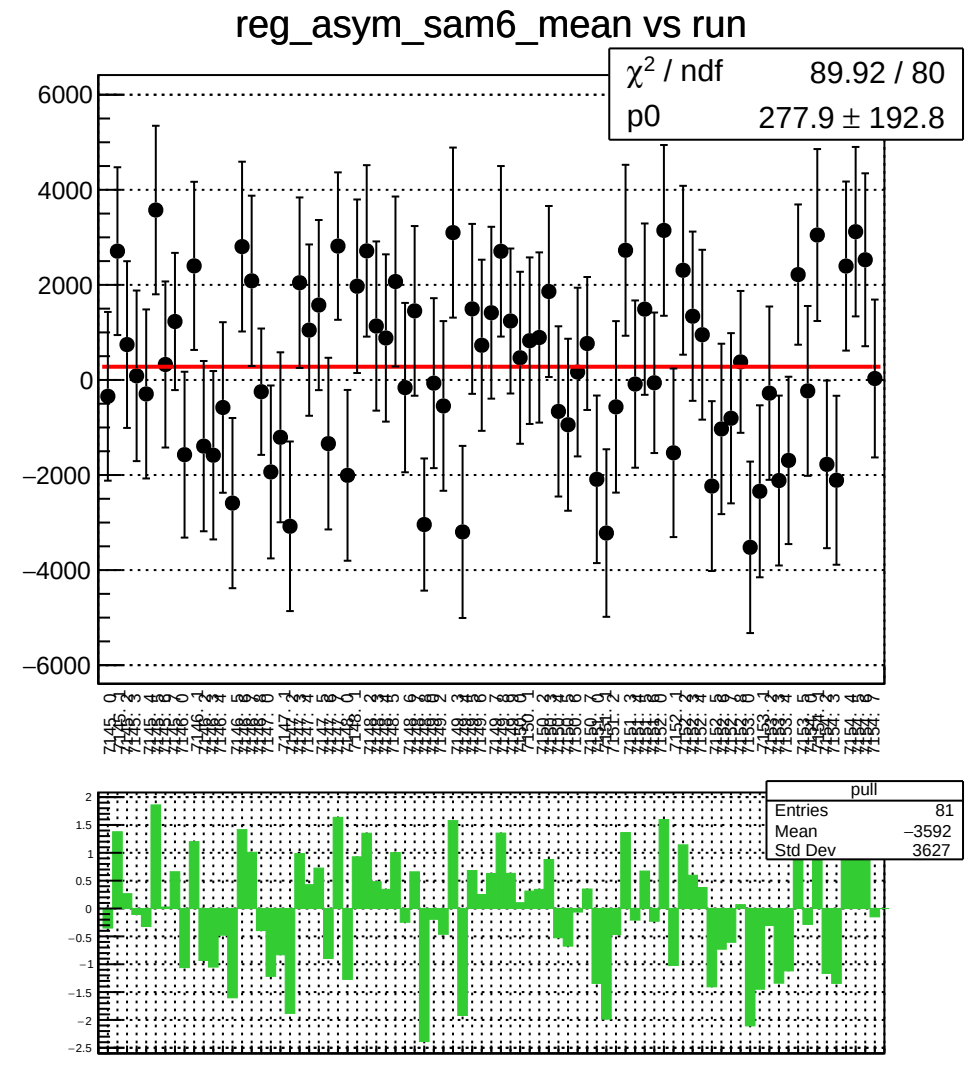

pull1D
Entries 81
Mean −0.0003061
Std Dev 1.125

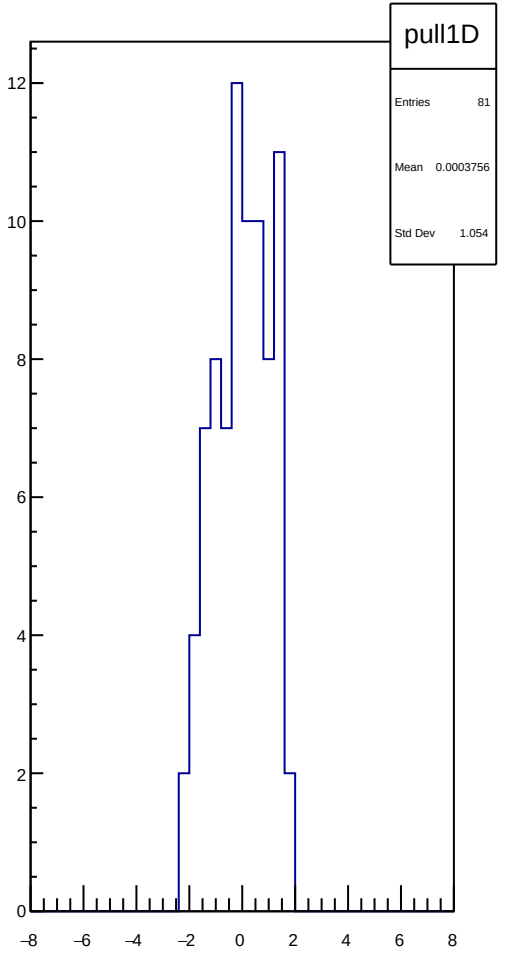

reg_asym_sam5_rms vs run
χ^2 / ndf 983 / 80
p0 163.8 ± 0.1318
175
170
165
160
155

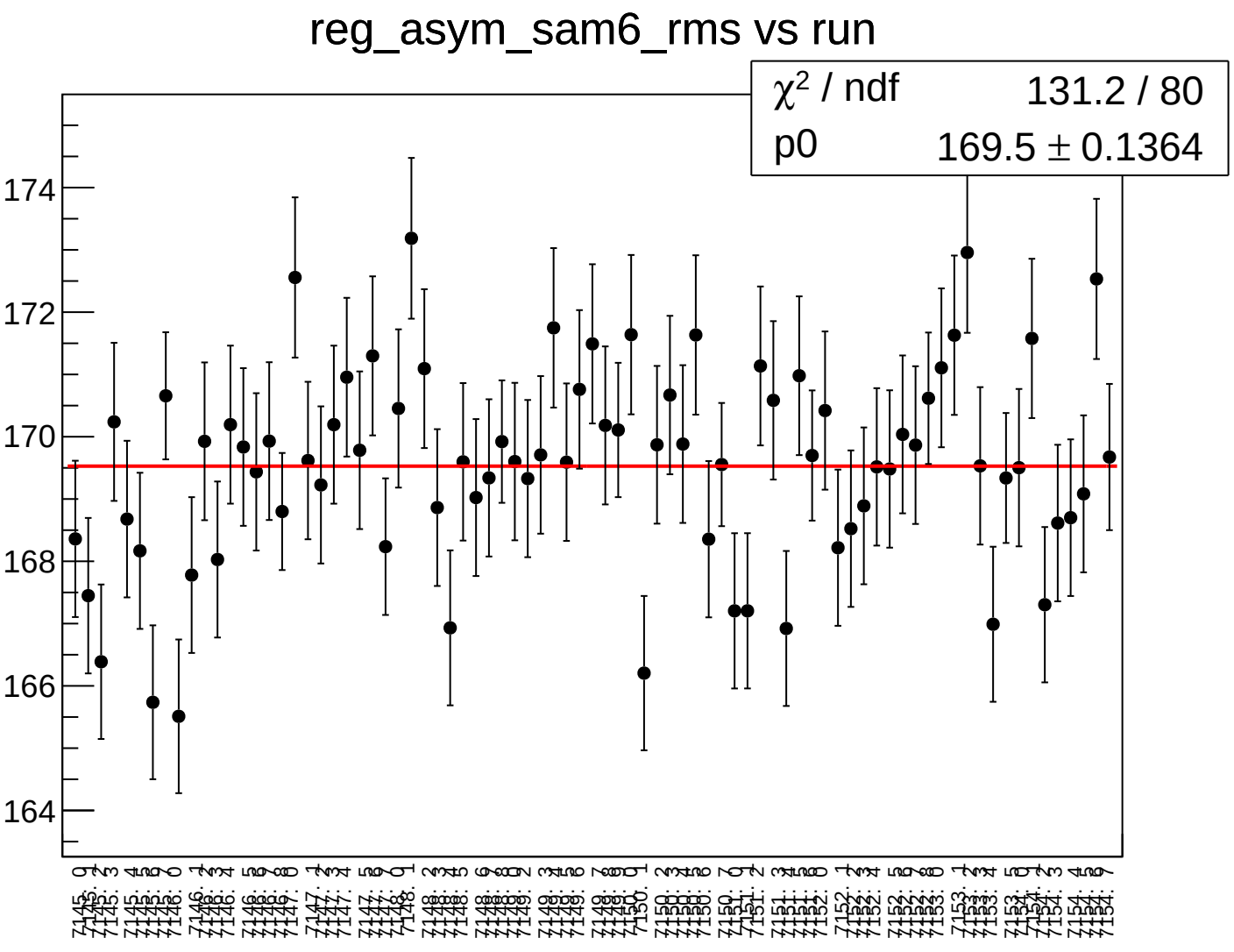

asym_sam5_correction_mean vs run
χ² / ndf 79.12 / 80
p0 −940.3 ± 1174
pull
Entries 81
Mean −655.6
Std Dev 649.3

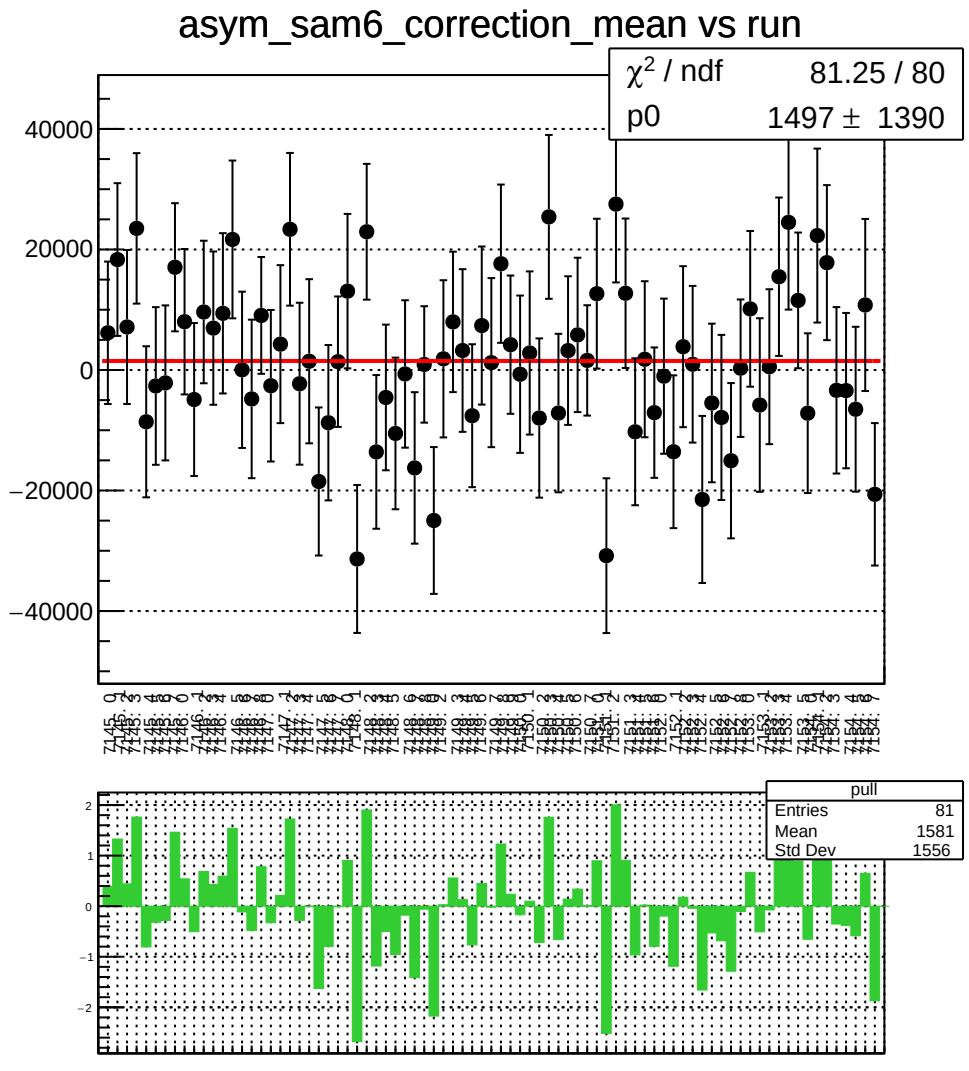

pull1D
Entries 81
Mean 0.001611
Std Dev 0.9883

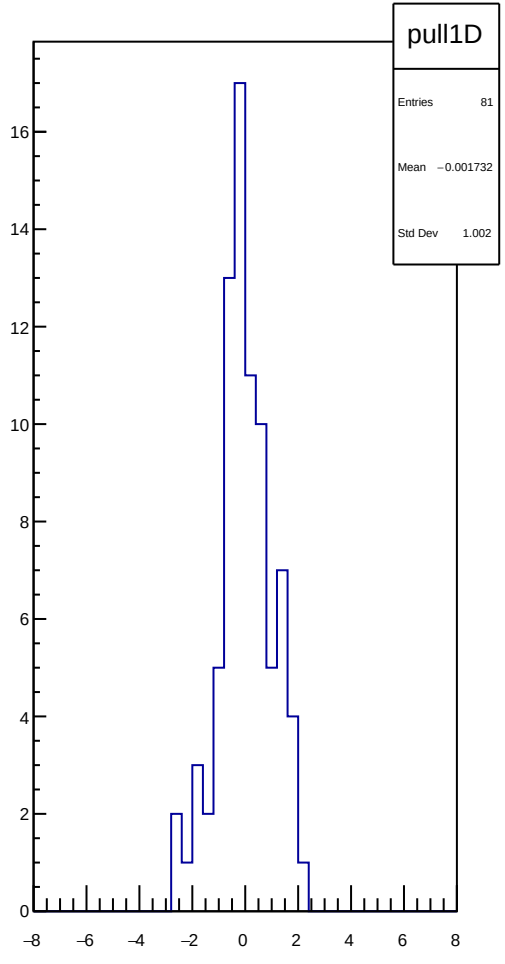

asym_sam5_correction_rms vs run
χ² / ndf 9172 / 80
p0 1029 ± 0.83
1250
1200
1150
1100
1050
1000
950
900

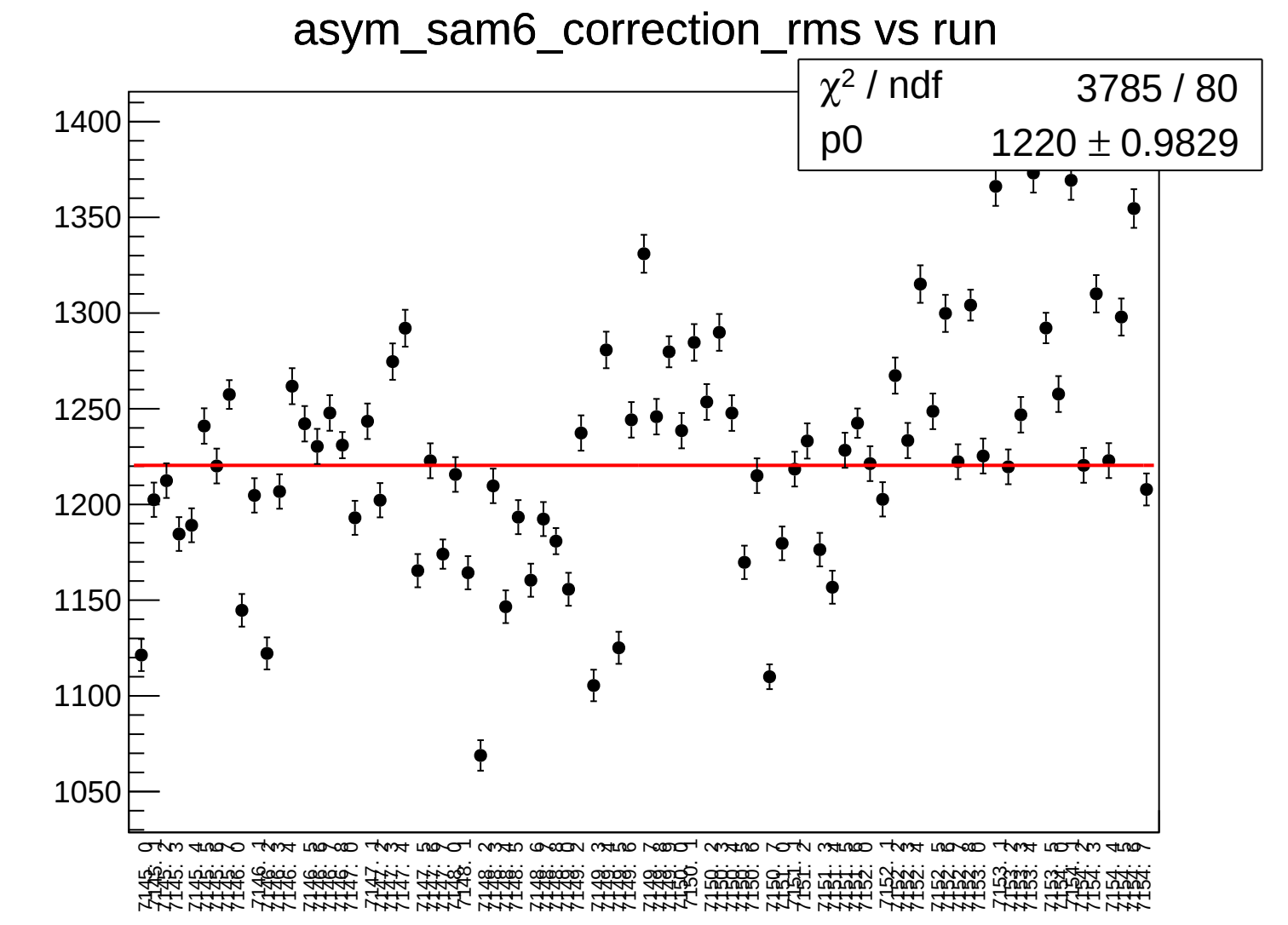

reg_asym_sam6_mean vs run
χ² / ndf 89.92 / 80
p0 277.9 ± 192.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean −3592
Std Dev 3627
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

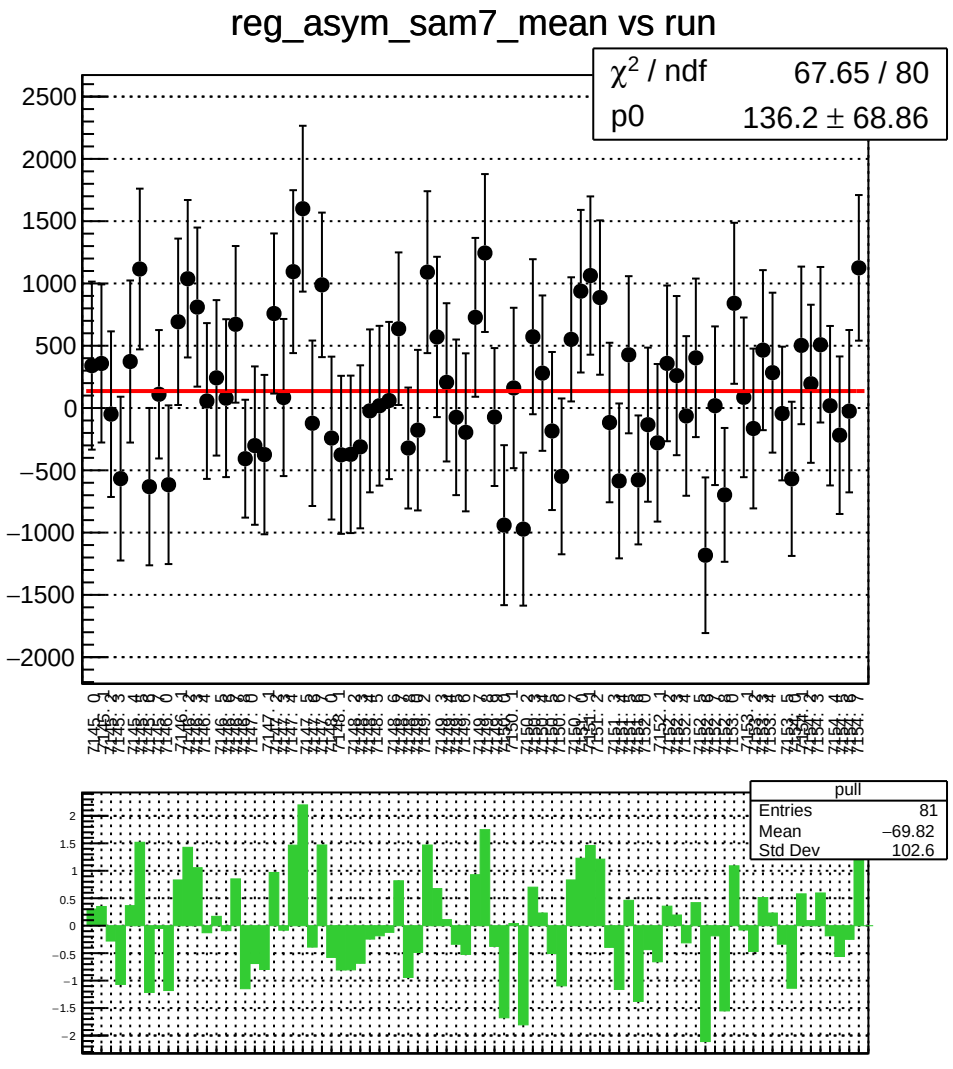

pull1D
Entries 81
Mean 0.0003756
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

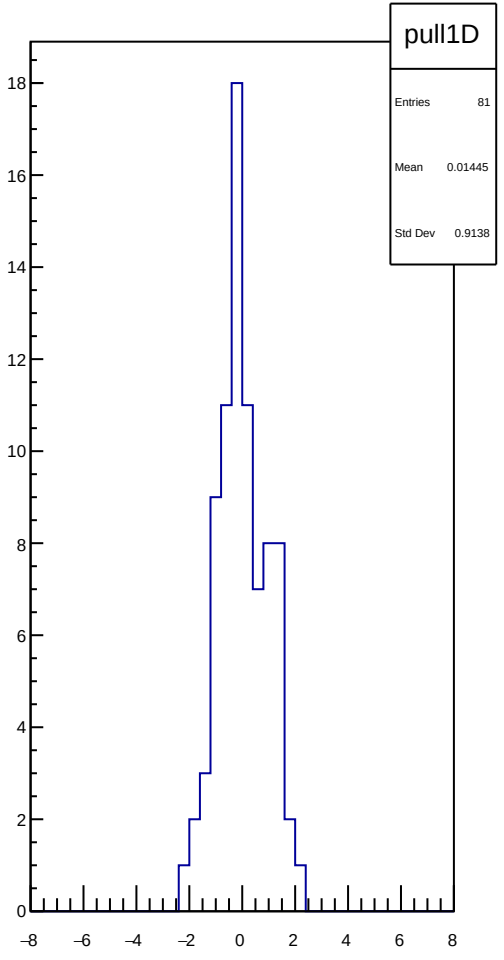

reg_asym_sam6_rms vs run
χ² / ndf 131.2 / 80
p0 169.5 ± 0.1364
174
172
170
168
166
164

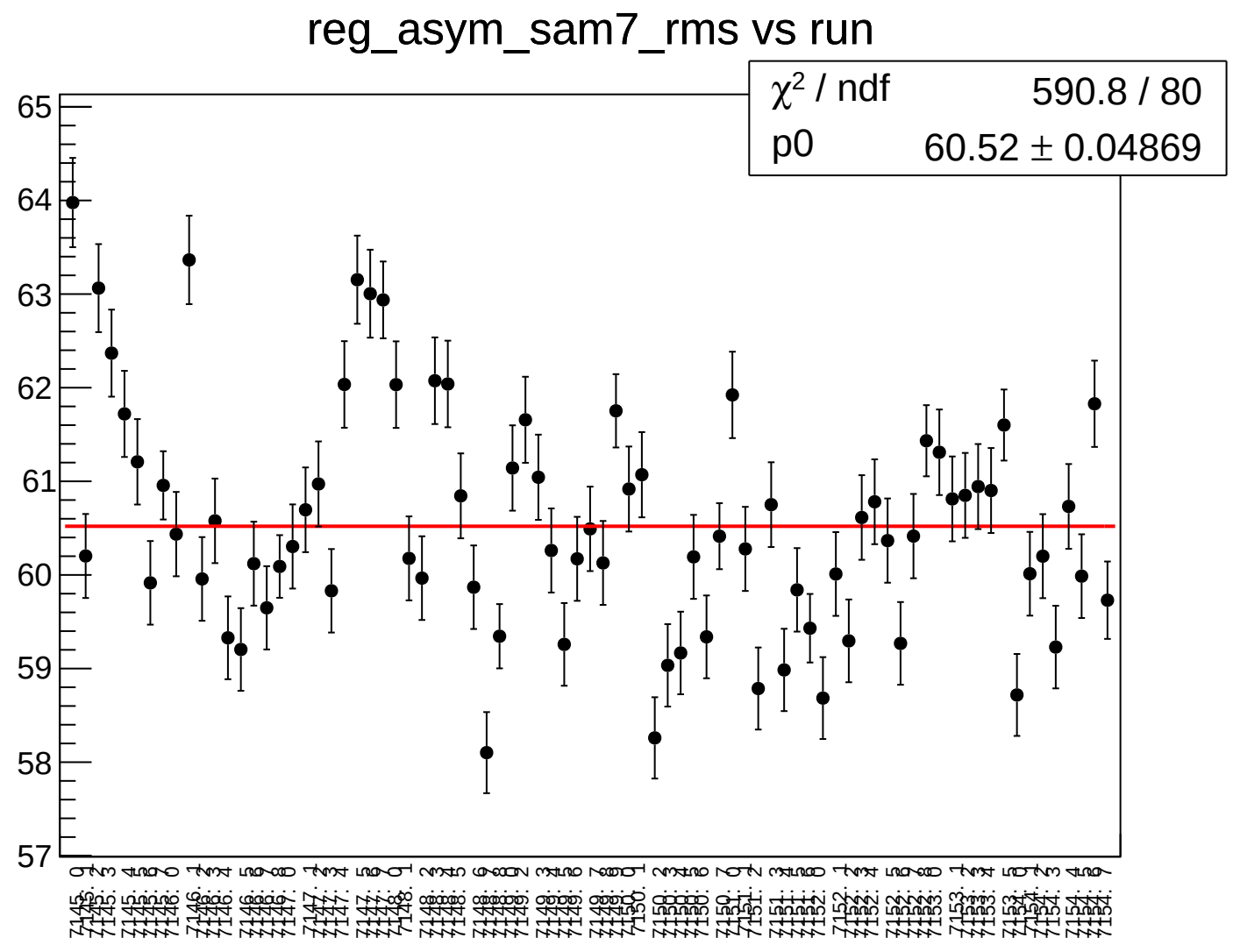

asym_sam6_correction_mean vs run
χ² / ndf 81.25 / 80
p0 1497 ± 1390
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 1581
Std Dev 1556
2
1
0
−1
−2

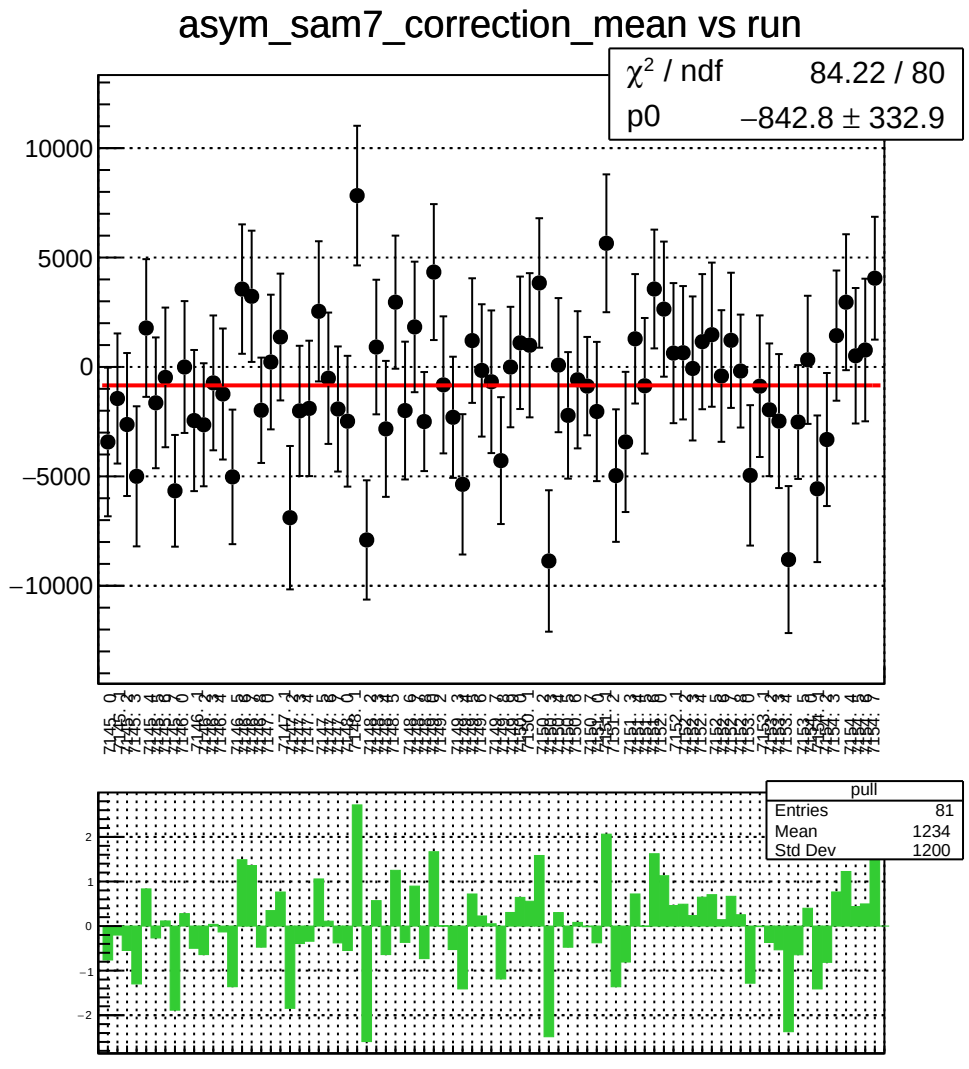

pull1D
Entries 81
Mean −0.001732
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

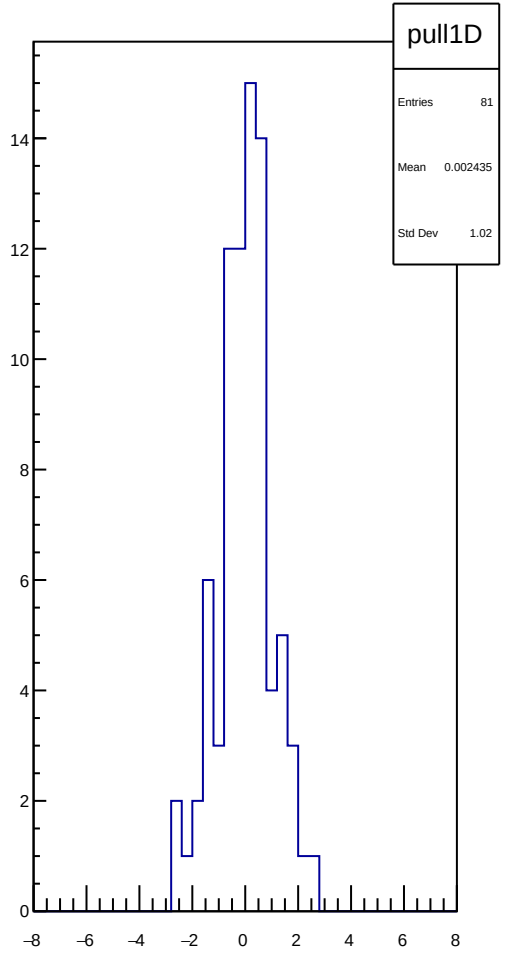

asym_sam6_correction_rms vs run
χ² / ndf 3785 / 80
p0 1220 ± 0.9829
1400
1350
1300
1250
1200
1150
1100
1050

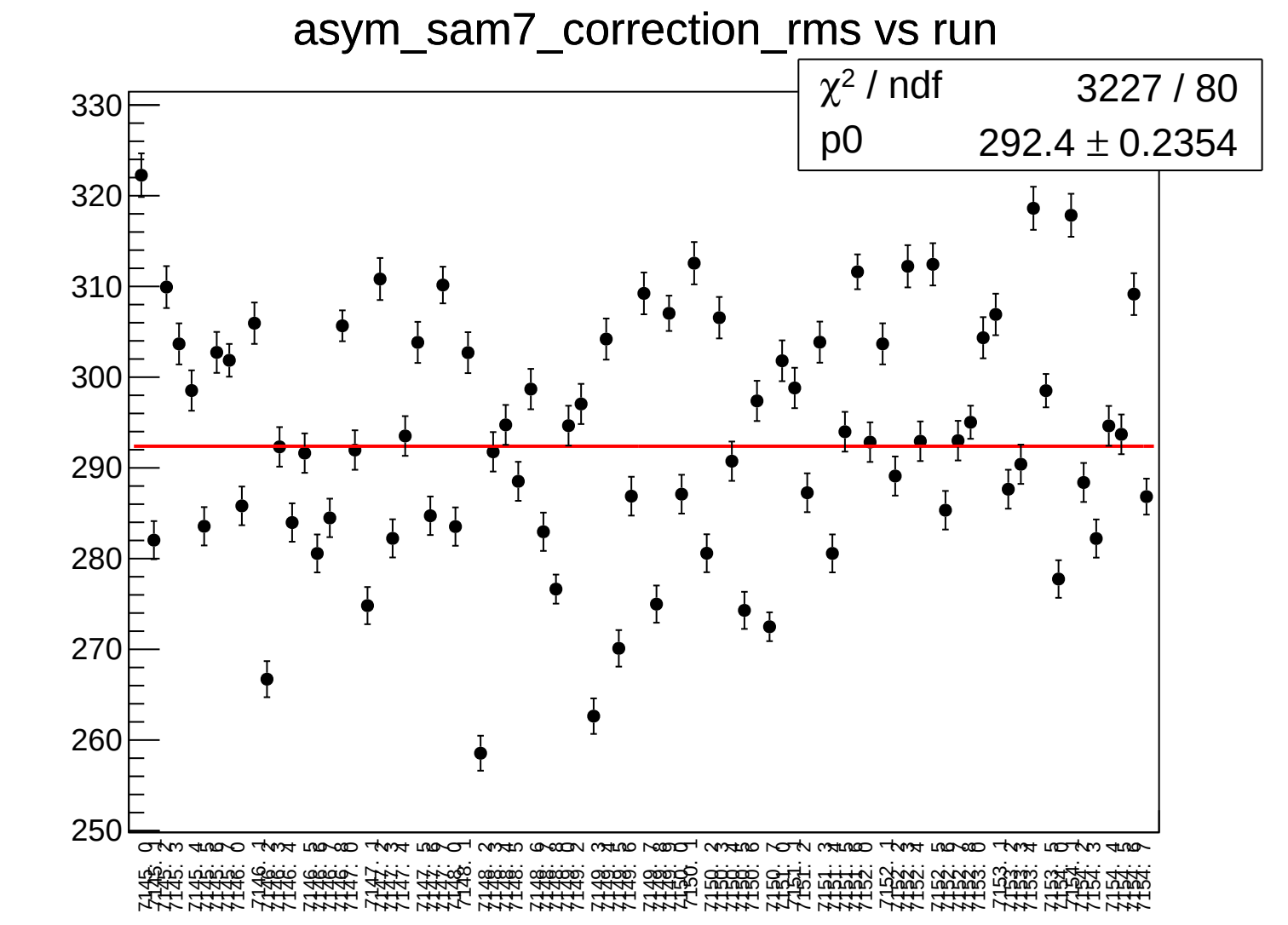

reg_asym_sam7_mean vs run
χ² / ndf 67.65 / 80
p0 136.2 ± 68.86
pull
Entries 81
Mean −69.82
Std Dev 102.6

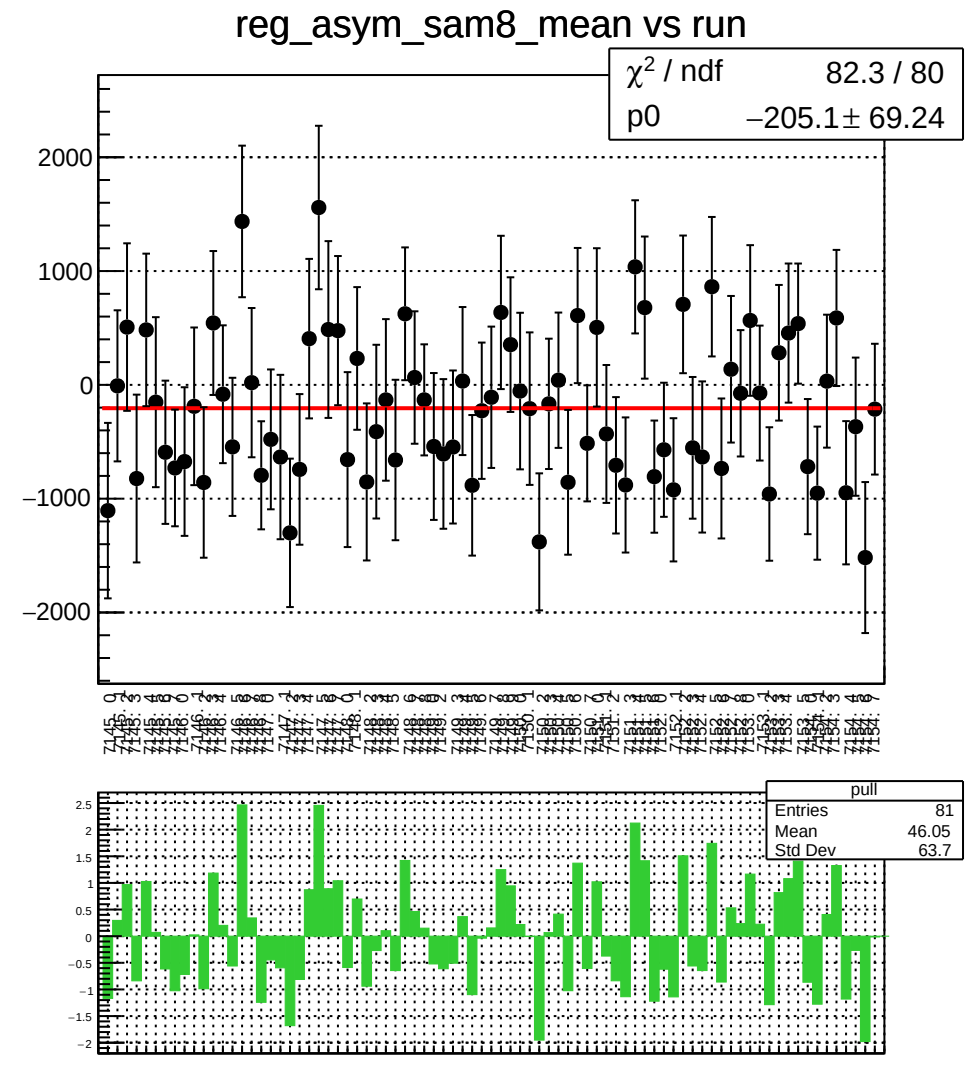

pull1D
Entries 81
Mean 0.01445
Std Dev 0.9138

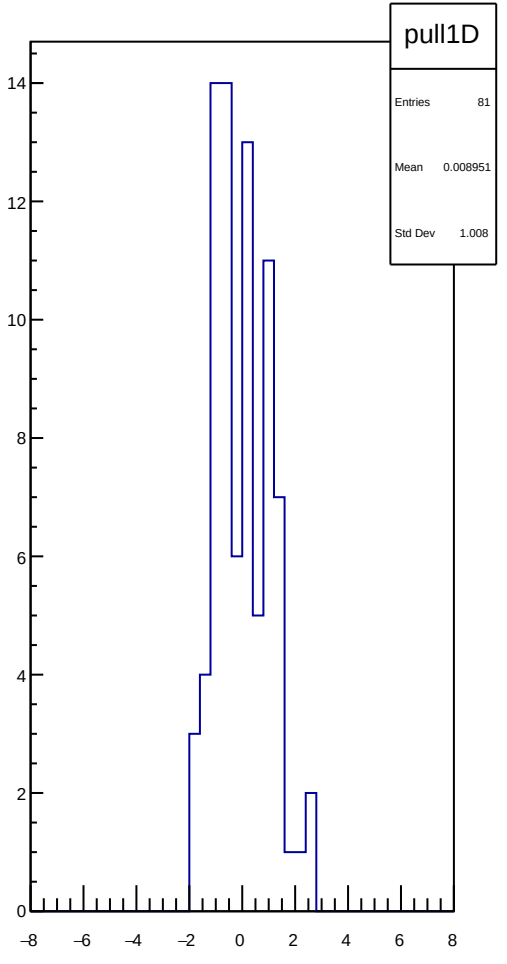

reg_asym_sam7_rms vs run
χ² / ndf 590.8 / 80
p0 60.52 ± 0.04869
65
64
63
62
61
60
59
58
57

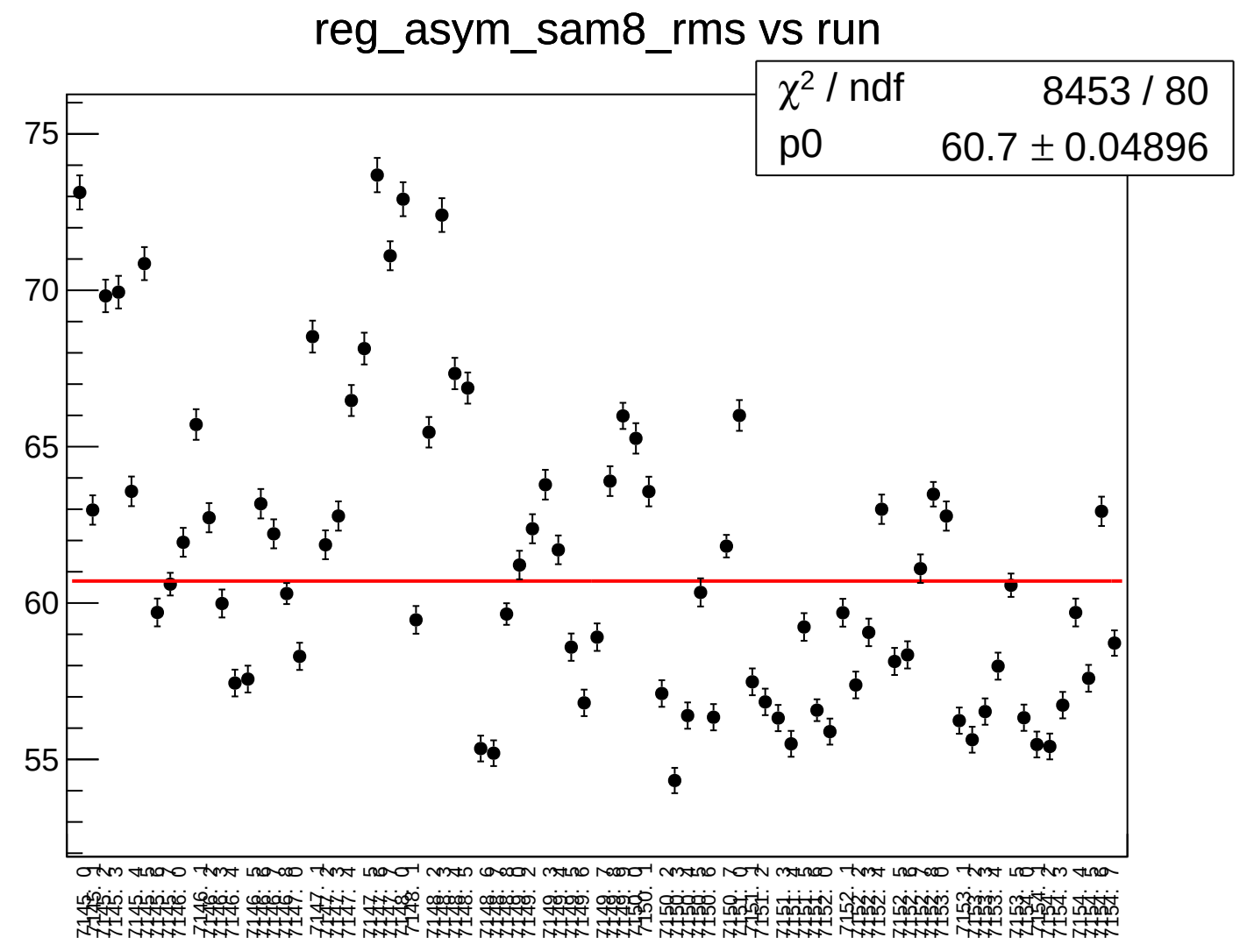

asym_sam7_correction_mean vs run
χ² / ndf 84.22 / 80
p0 −842.8 ± 332.9
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 1234
Std Dev 1200
2
1
0
−1
−2

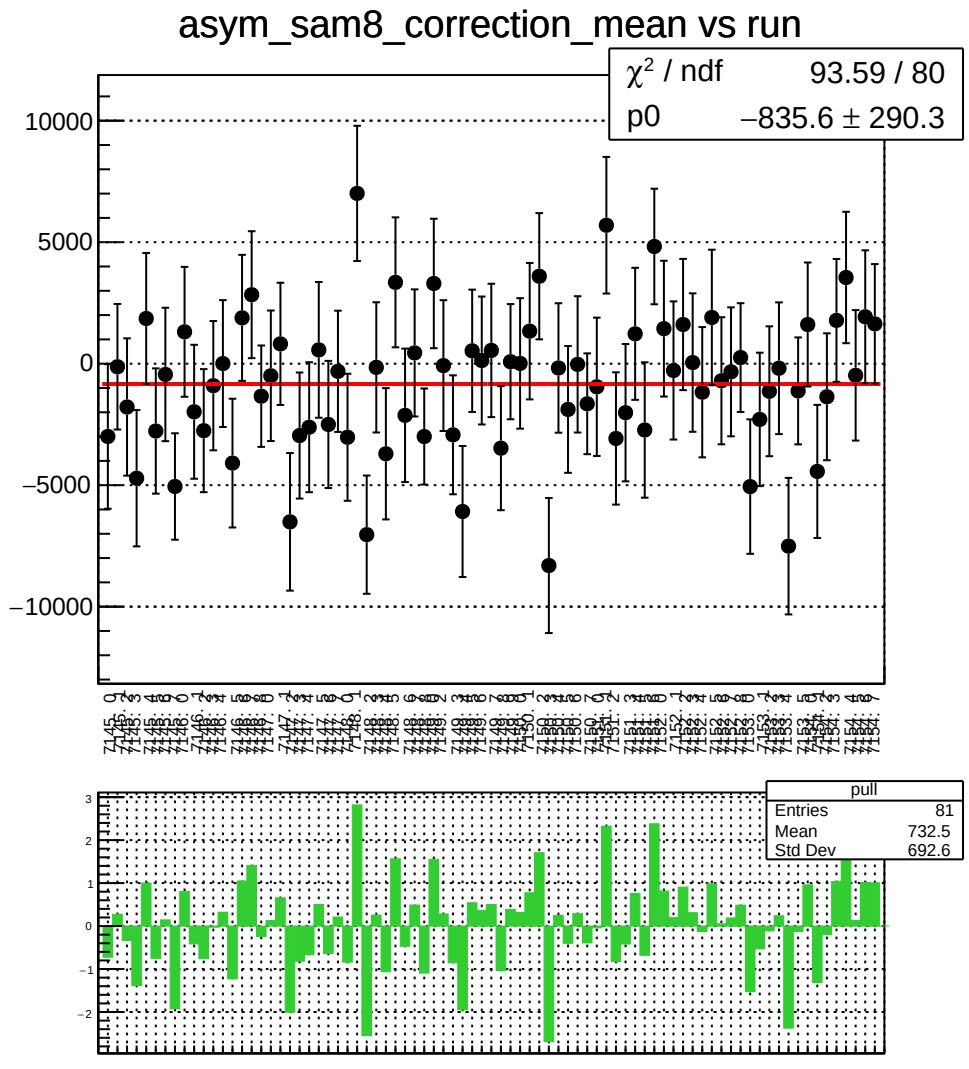

pull1D
Entries 81
Mean 0.002435
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

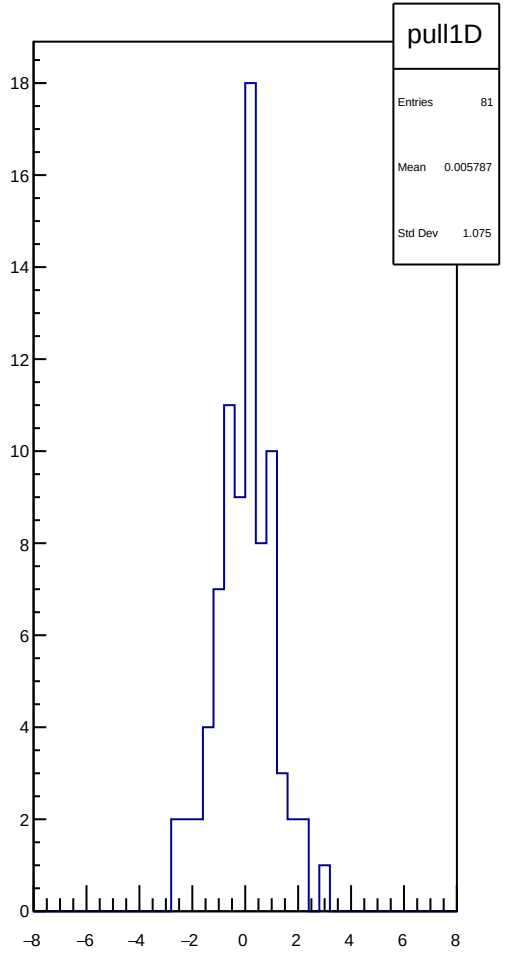

asym_sam7_correction_rms vs run
χ² / ndf 3227 / 80
p0 292.4 ± 0.2354
330
320
310
300
290
280
270
260
250

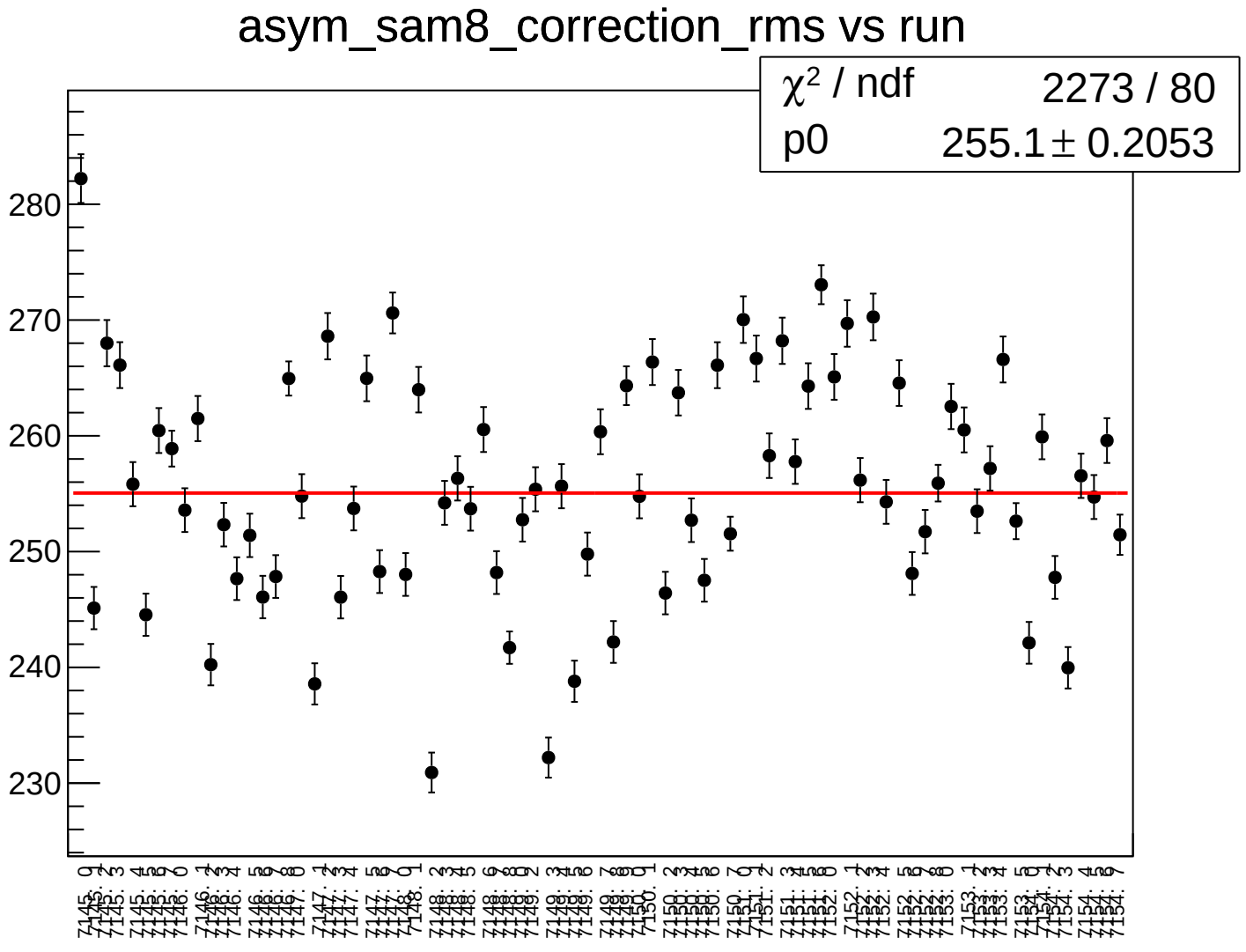

reg_asym_sam8_mean vs run
χ^2 / ndf 82.3 / 80
p0 −205.1± 69.24
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 46.05
Std Dev 63.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

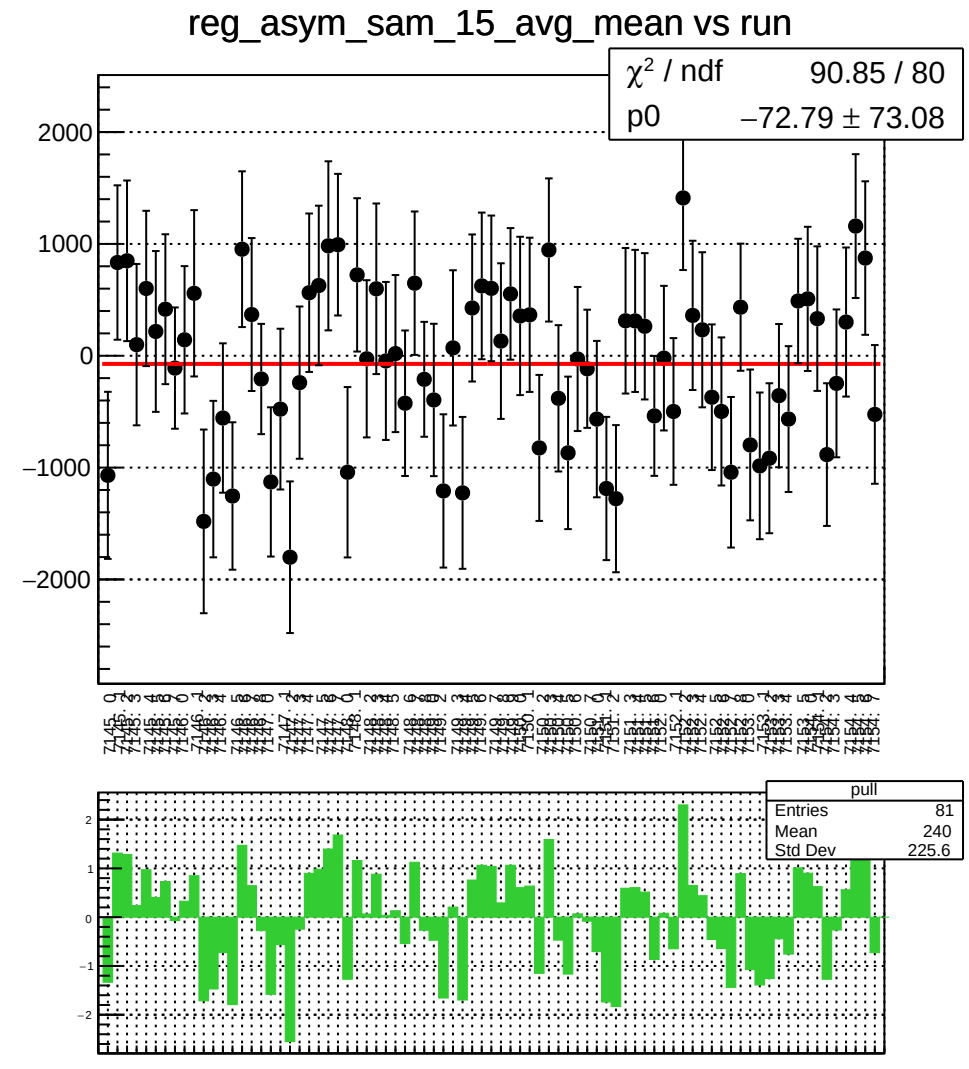

pull1D
Entries 81
Mean 0.008951
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

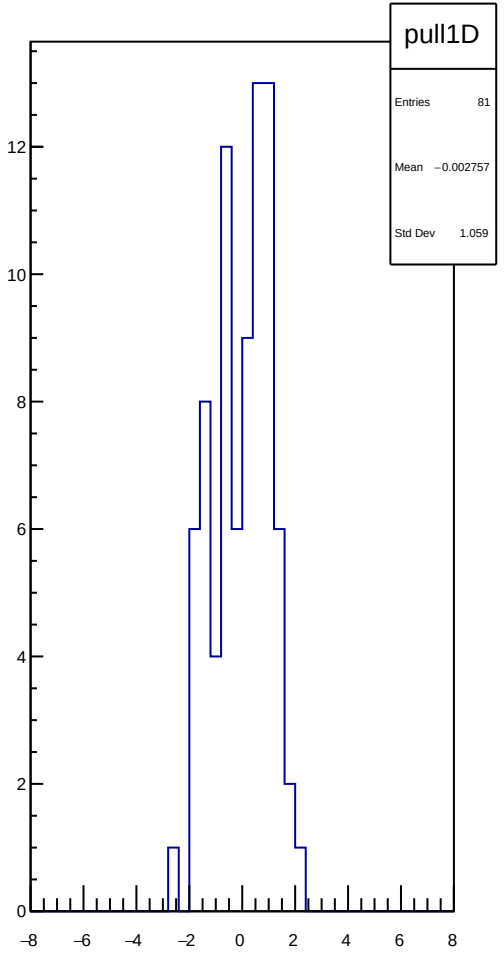

reg_asym_sam8_rms vs run
χ² / ndf 8453 / 80
p0 60.7 ± 0.04896
75
70
65
60
55

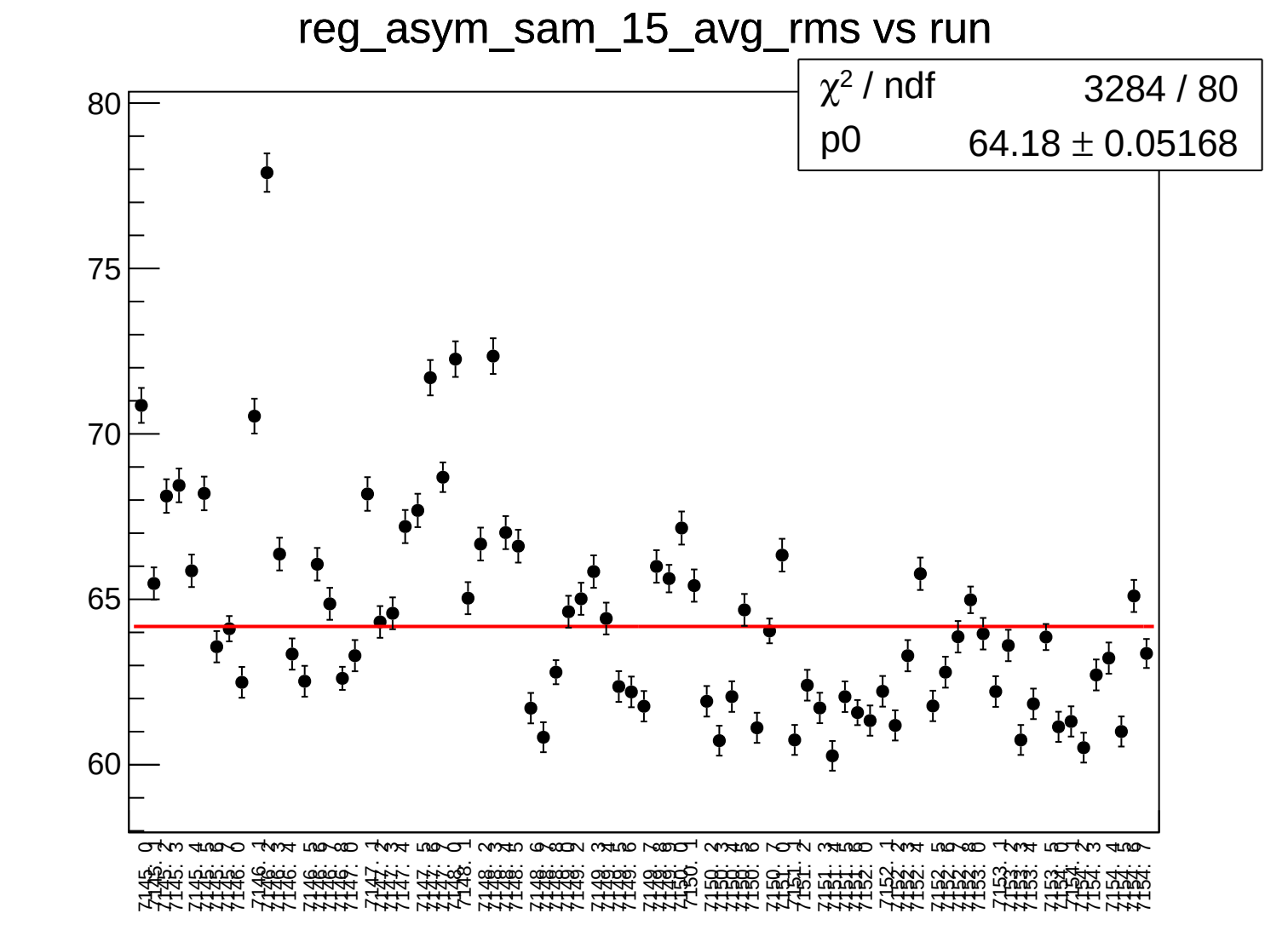

asym_sam8_correction_mean vs run
χ² / ndf 93.59 / 80
p0 −835.6 ± 290.3
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 732.5
Std Dev 692.6
3
2
1
0
−1
−2

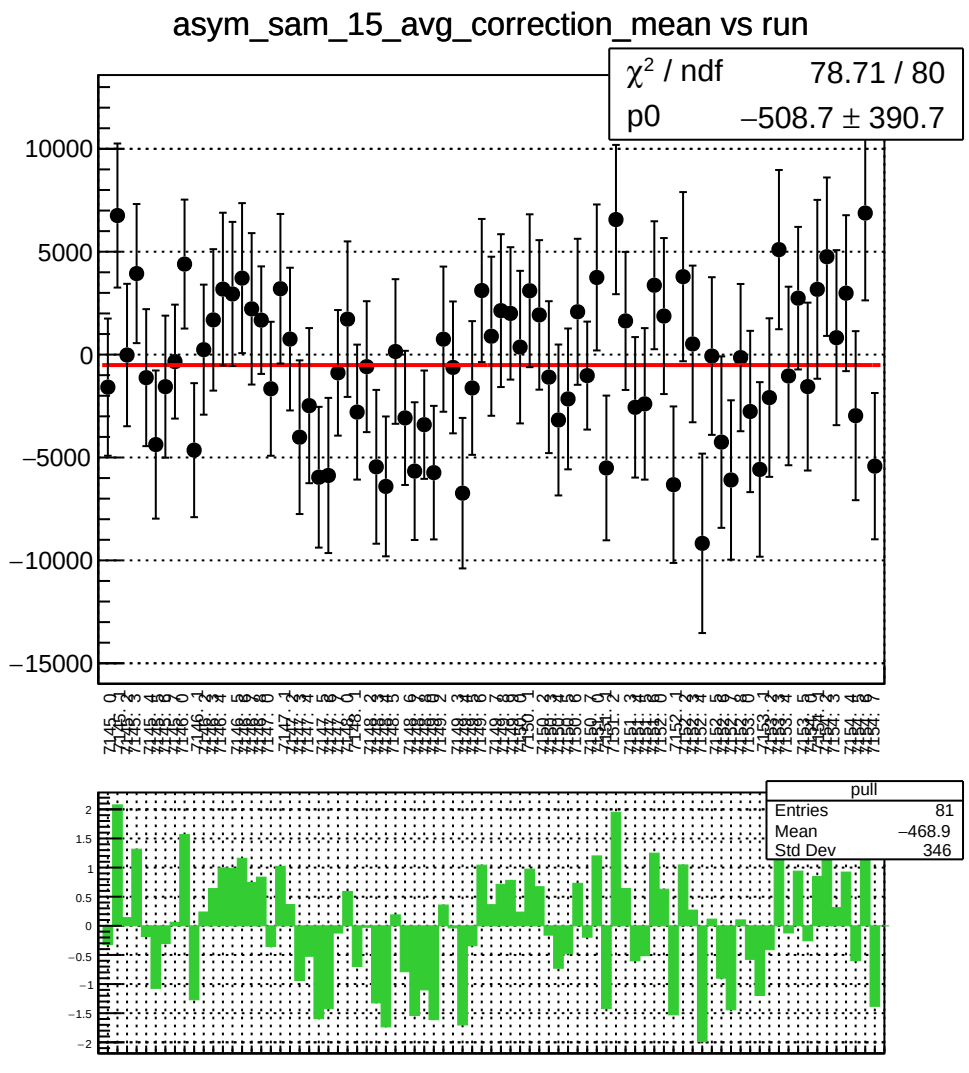

pull1D
Entries 81
Mean 0.005787
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

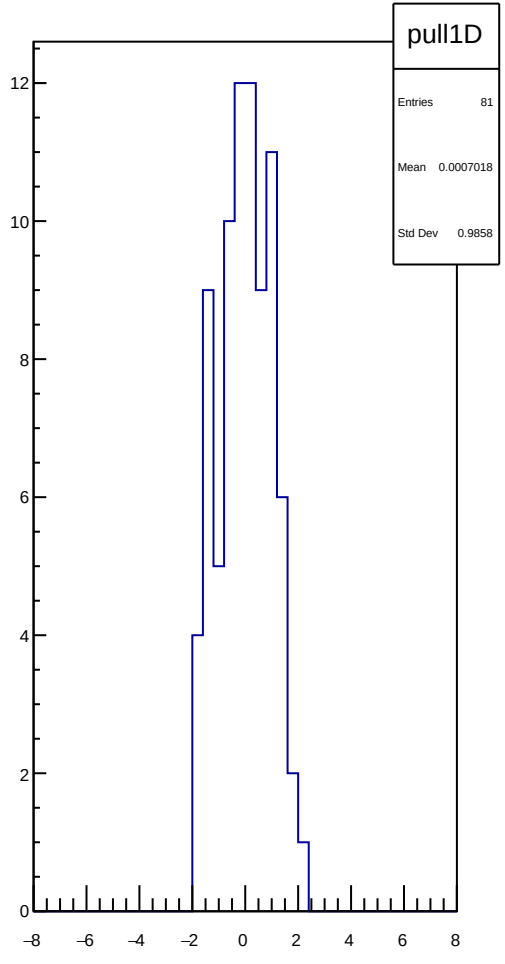

asym_sam8_correction_rms vs run
χ² / ndf 2273 / 80
p0 255.1 ± 0.2053
280
270
260
250
240
230

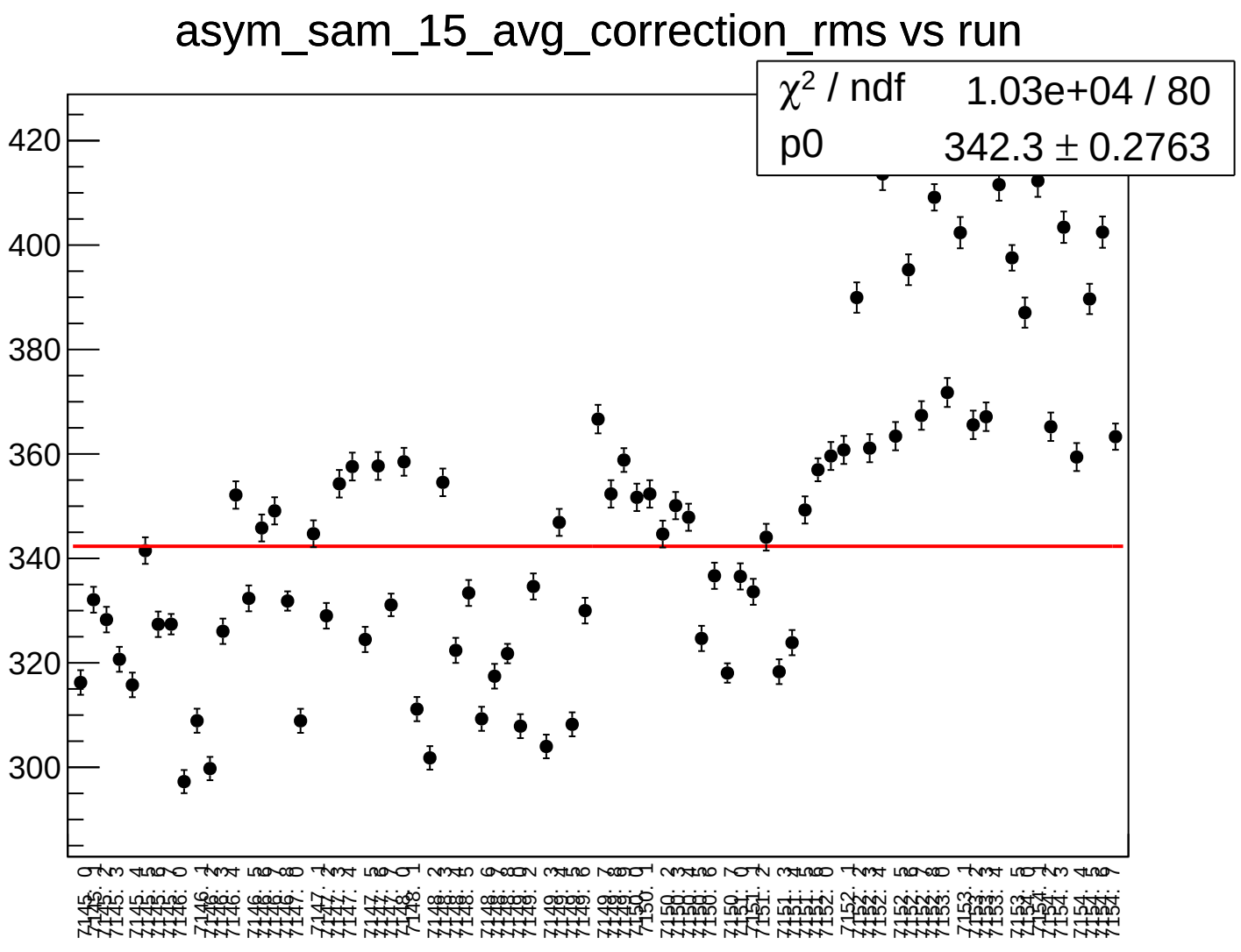

reg_asym_sam_15_avg_mean vs run
χ² / ndf 90.85 / 80
p0 −72.79 ± 73.08
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 240
Std Dev 225.6
2
1
0
−1
−2

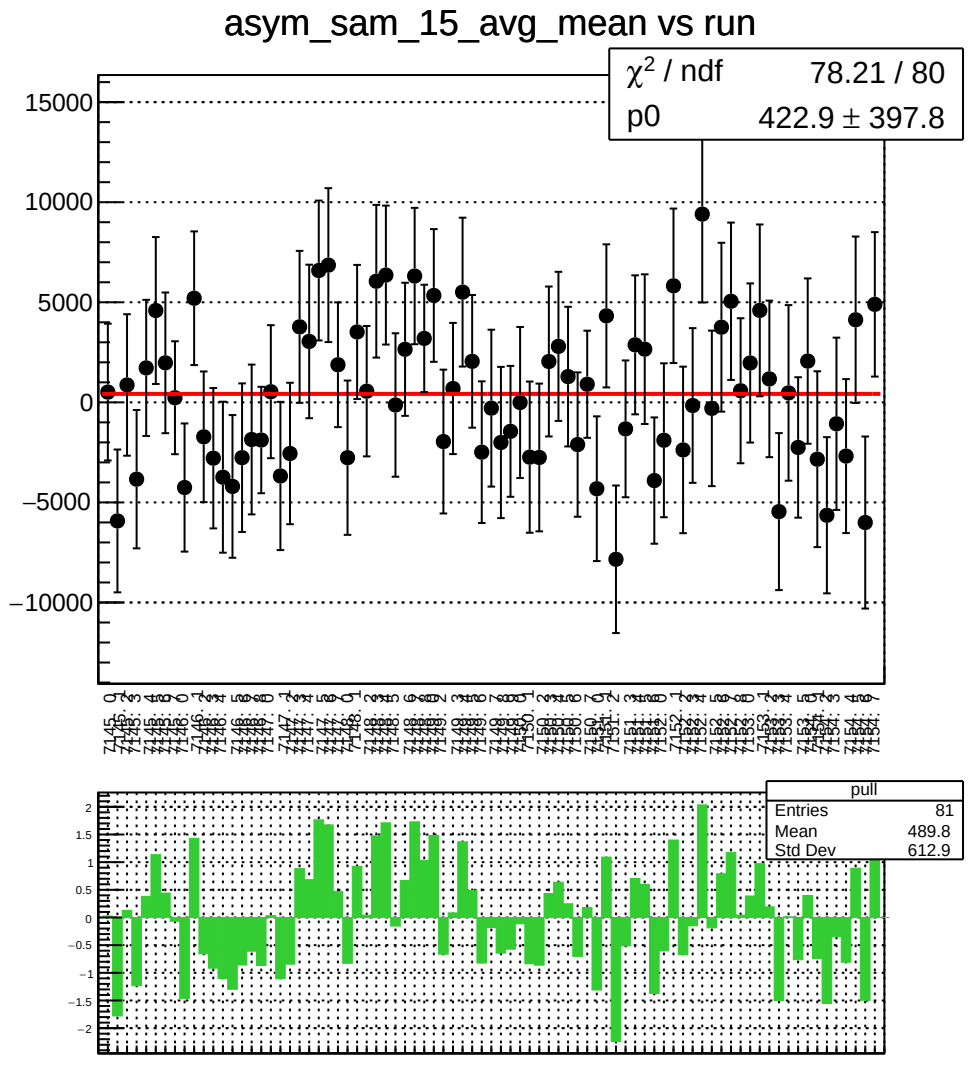

pull1D
Entries 81
Mean −0.002757
Std Dev 1.059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

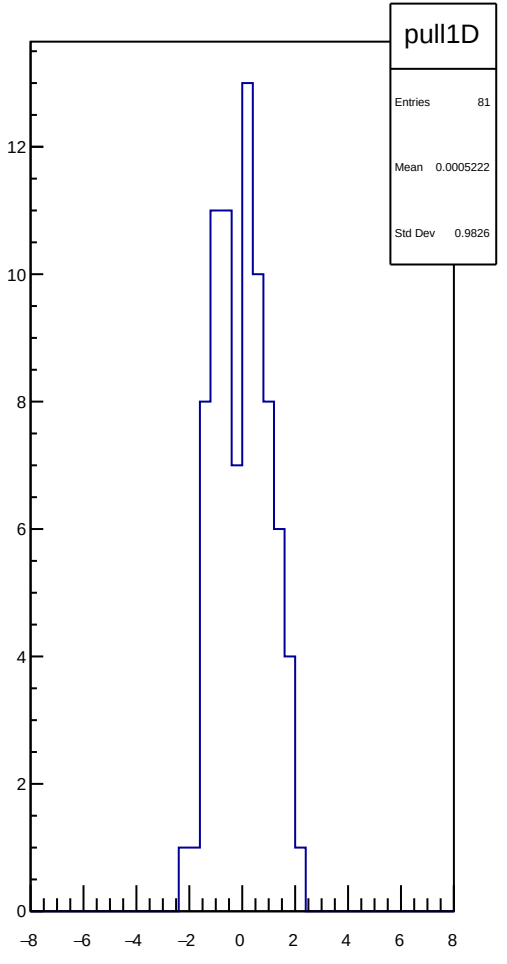

reg_asym_sam_15_avg_rms vs run
χ² / ndf 3284 / 80
p0 64.18 ± 0.05168
80
75
70
65
60

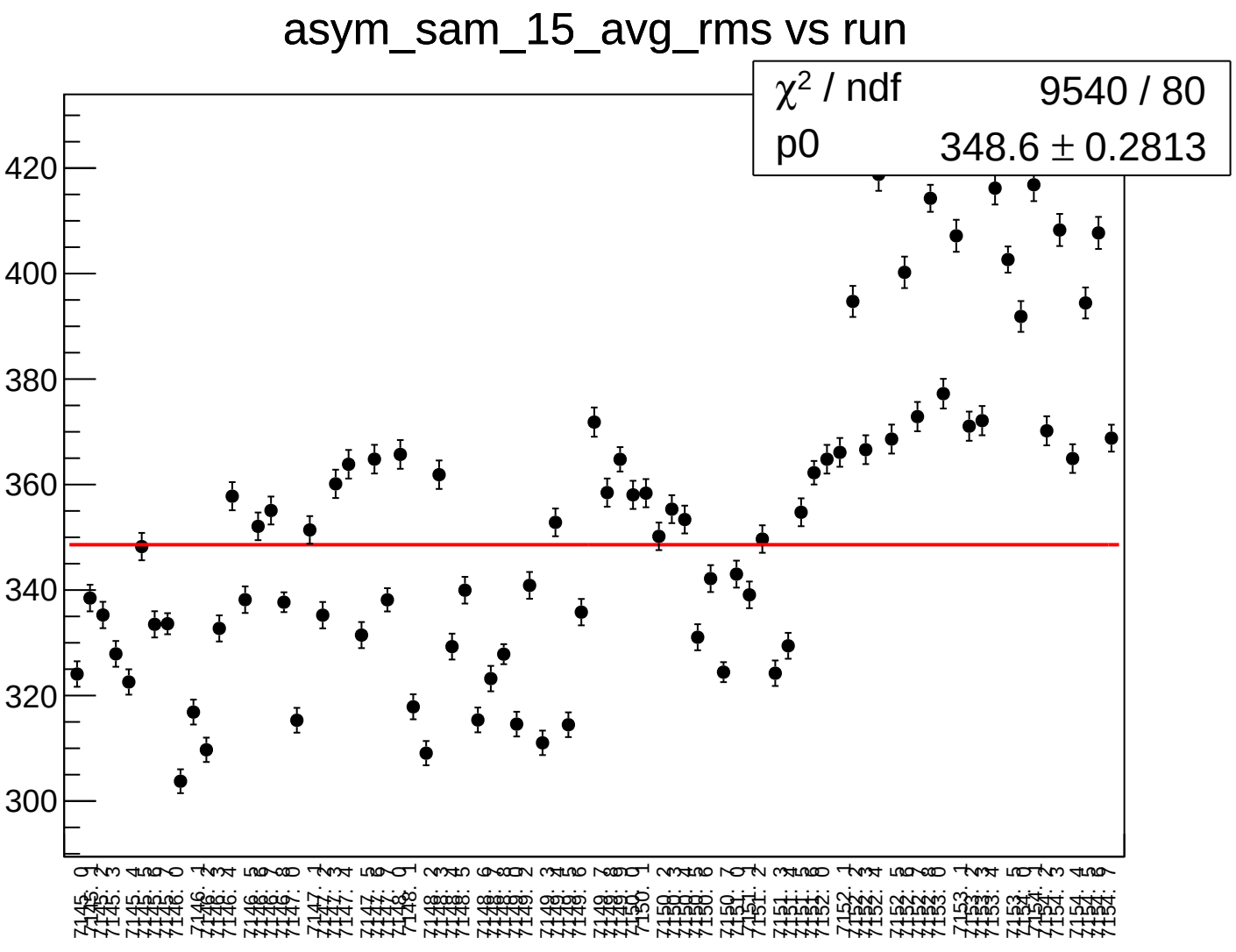

asym_sam_15_avg_correction_mean vs run
χ² / ndf 78.71 / 80
p0 −508.7 ± 390.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −468.9
Std Dev 346
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

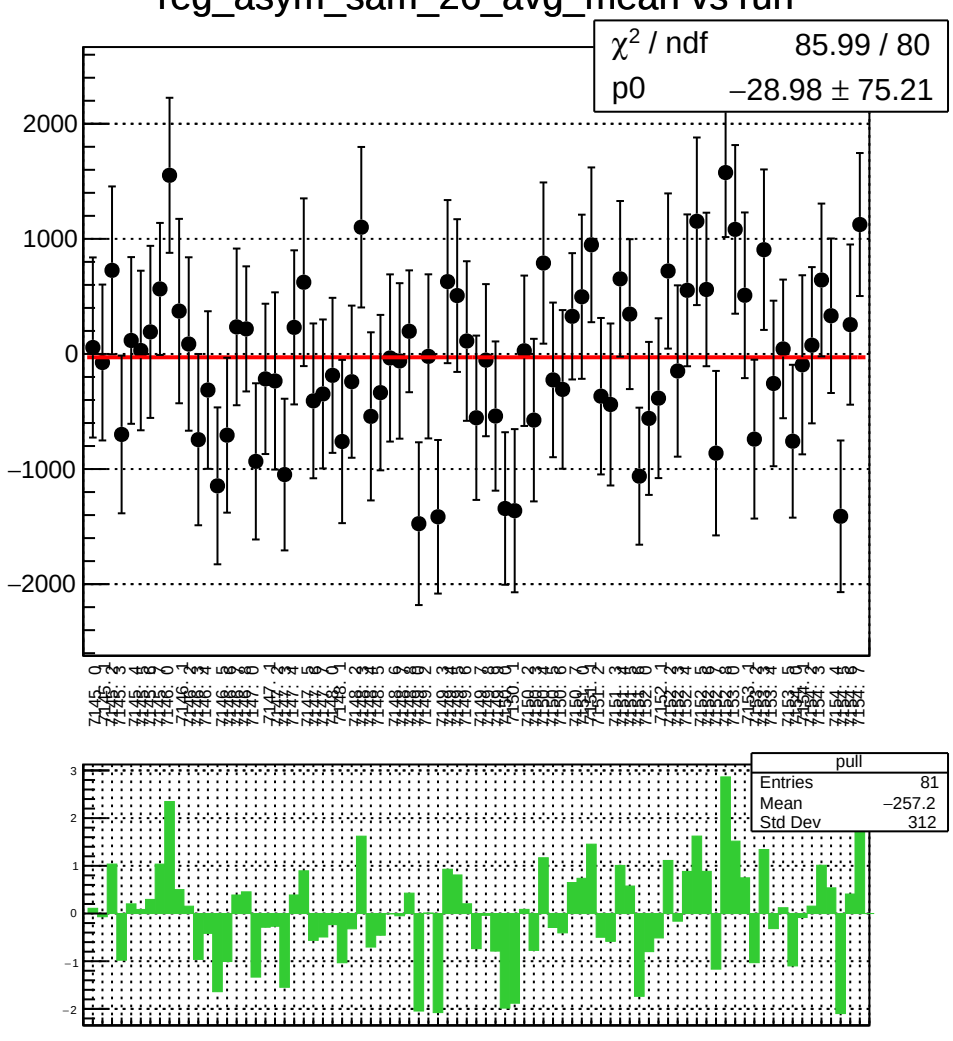

pull1D
Entries 81
Mean 0.0007018
Std Dev 0.9858
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

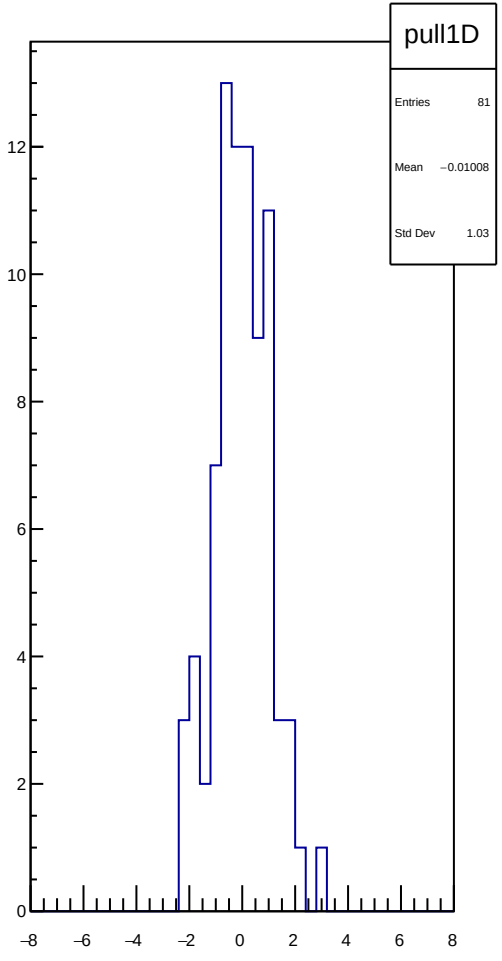

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1.03e+04 / 80
p0 342.3 ± 0.2763
420
400
380
360
340
320
300

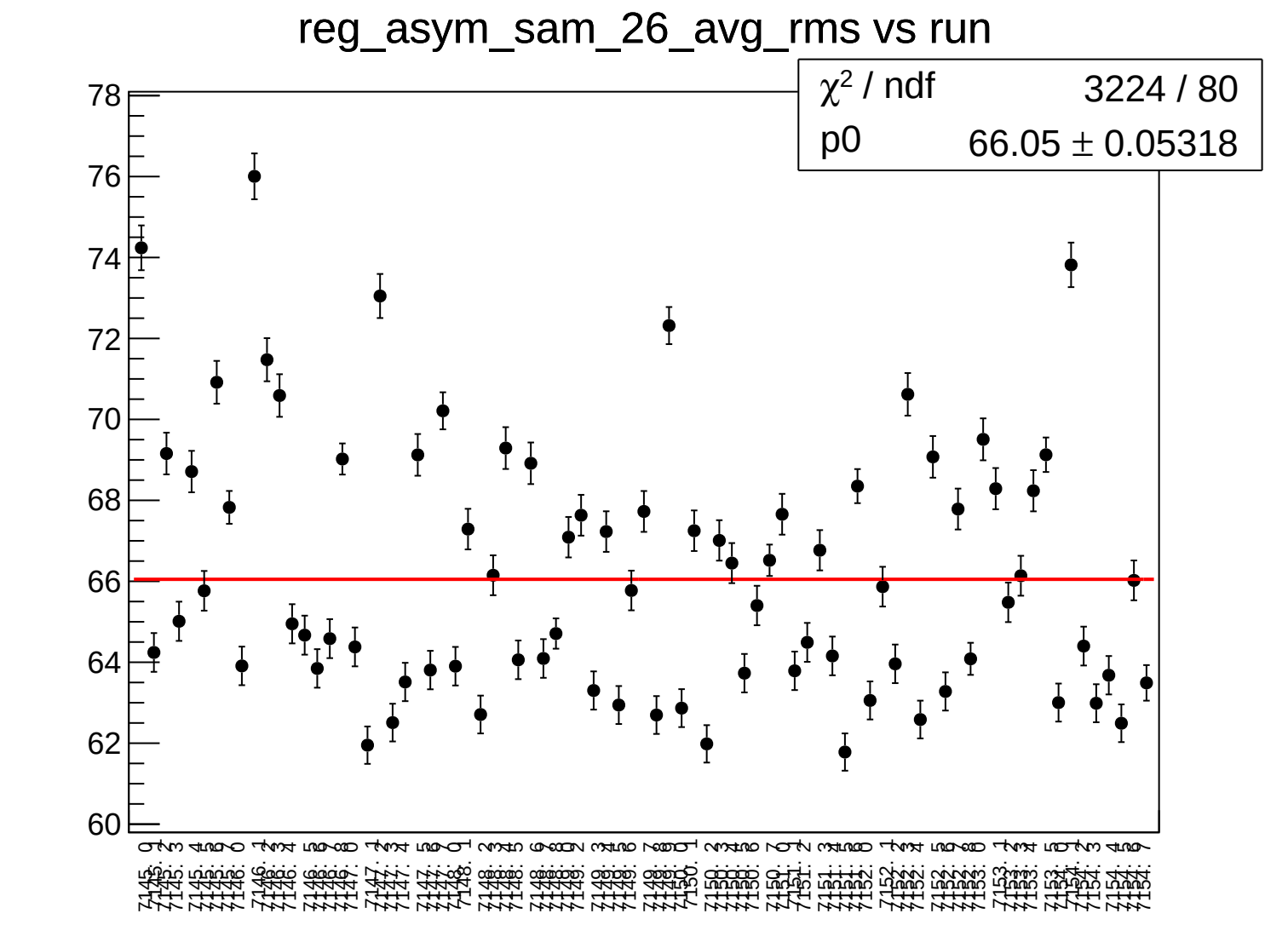

asym_sam_15_avg_mean vs run
χ² / ndf 78.21 / 80
p0 422.9 ± 397.8
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 489.8
Std Dev 612.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

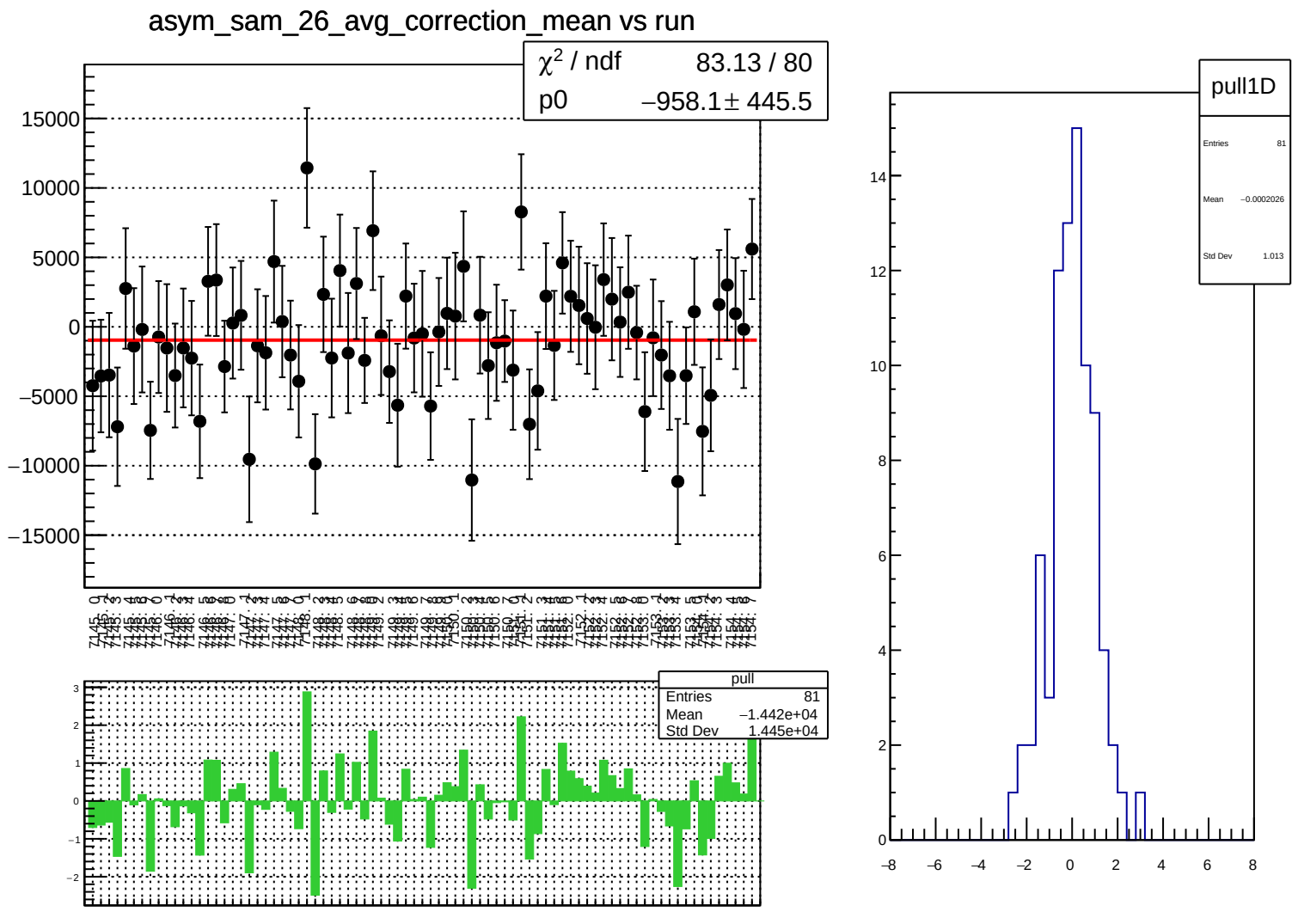

pull1D
Entries 81
Mean 0.0005222
Std Dev 0.9826
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

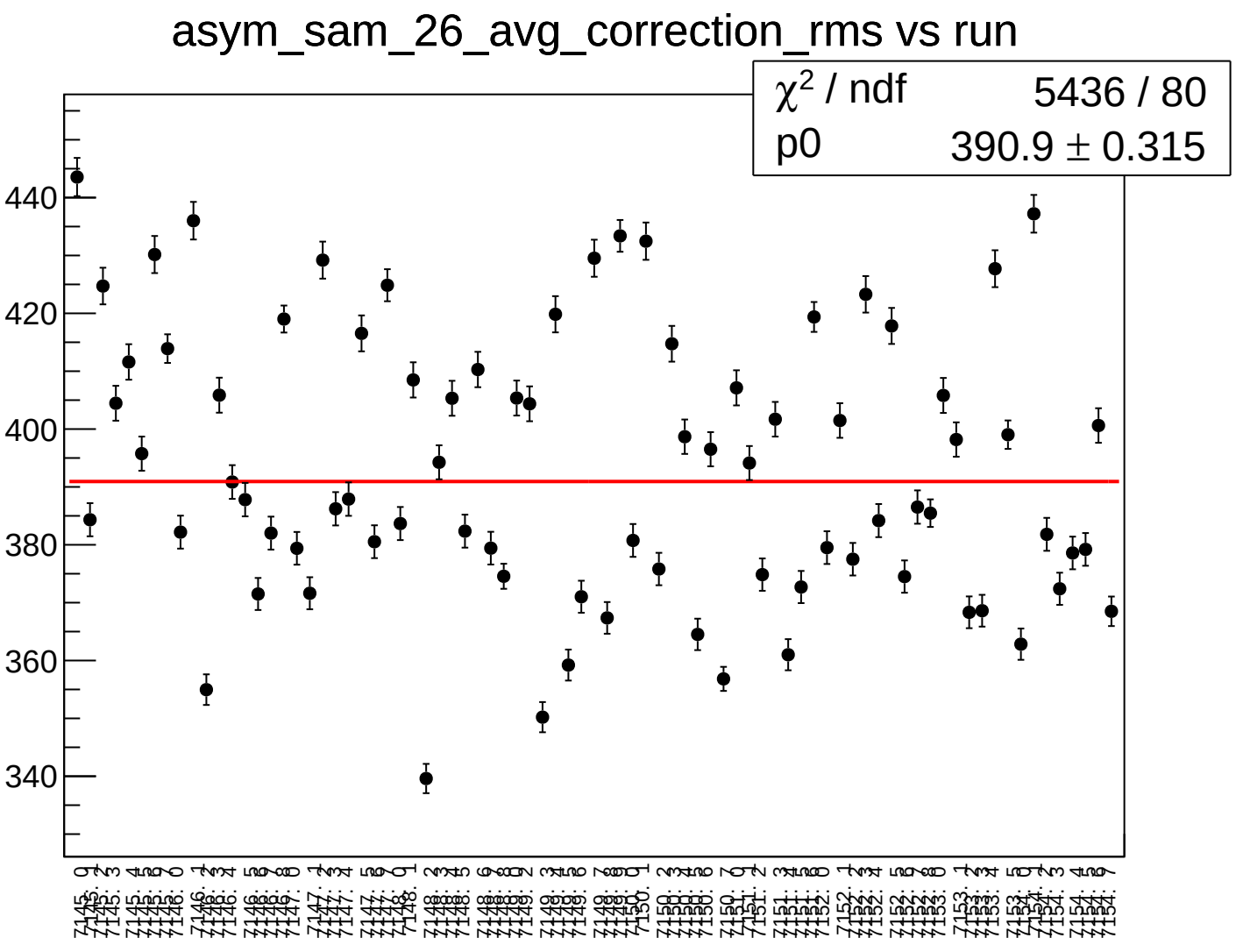

asym_sam_15_avg_rms vs run
χ² / ndf 9540 / 80
p0 348.6 ± 0.2813
420
400
380
360
340
320
300

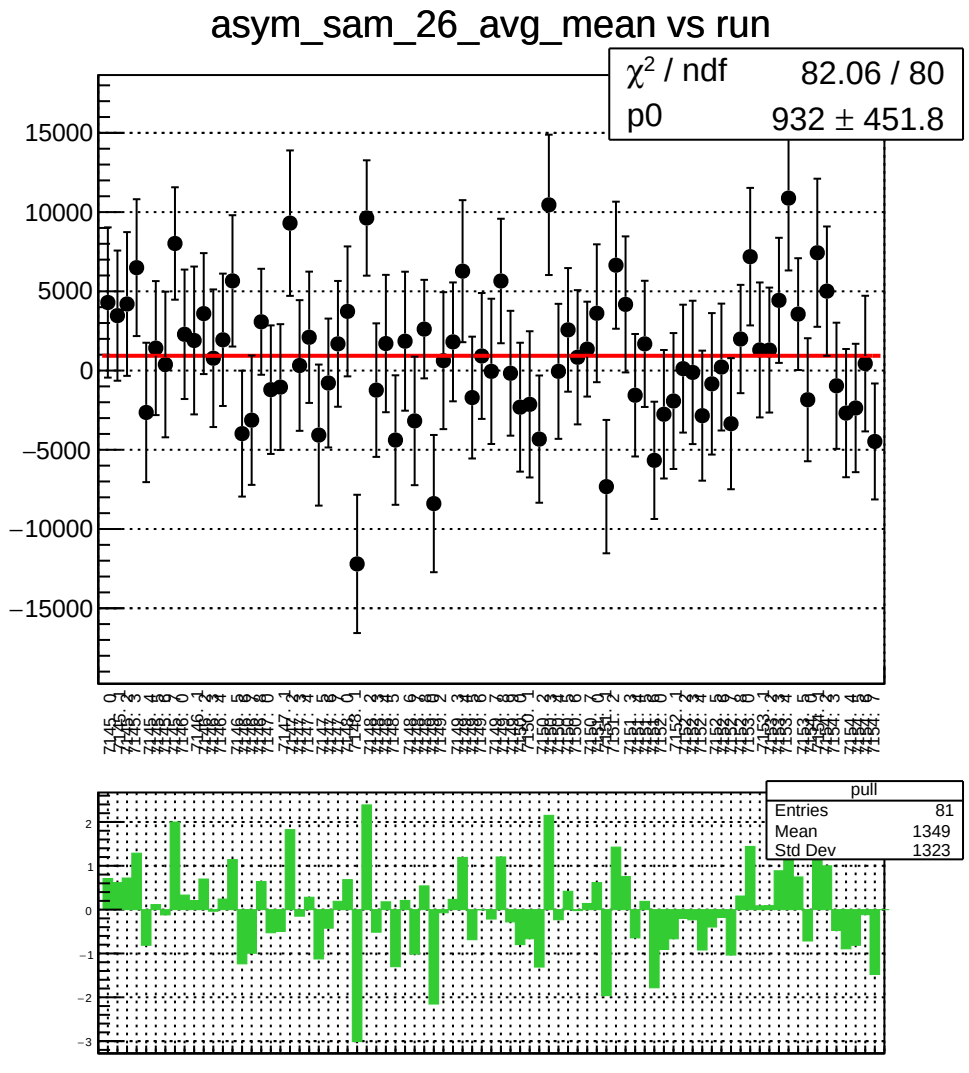

reg_asym_sam_26_avg_mean vs run
χ² / ndf 85.99 / 80
p0 −28.98 ± 75.21
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −257.2
Std Dev 312
3
2
1
0
−1
−2

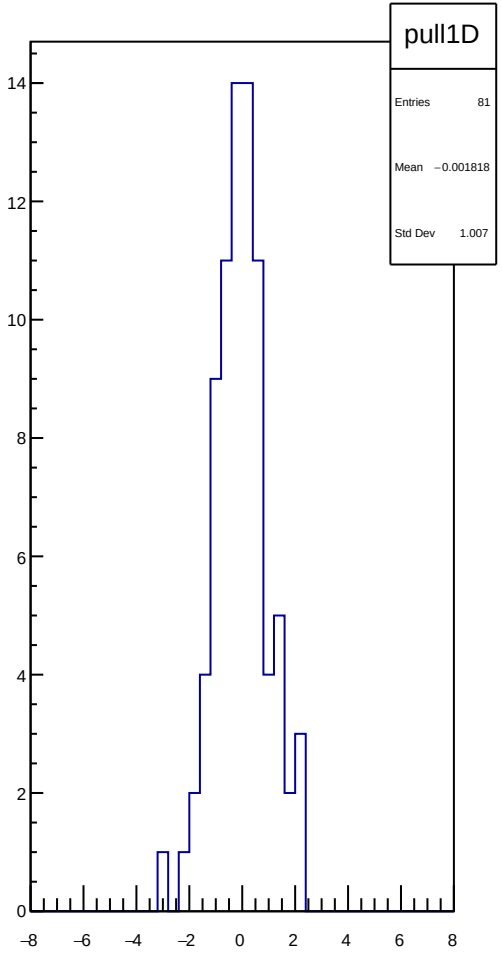

pull1D
Entries 81
Mean −0.01008
Std Dev 1.03
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

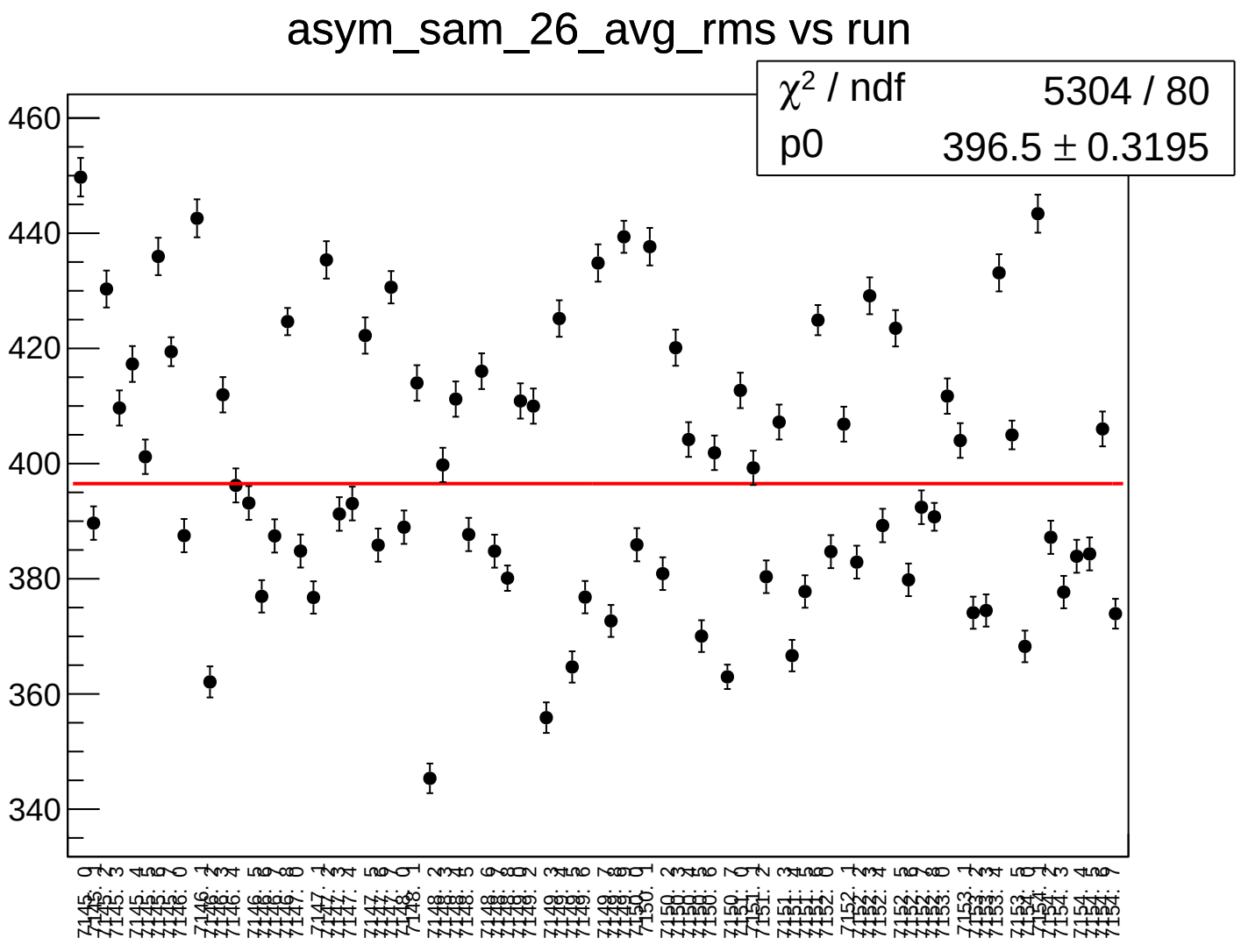

reg_asym_sam_26_avg_rms vs run
χ² / ndf 3224 / 80
p0 66.05 ± 0.05318
78
76
74
72
70
68
66
64
62
60

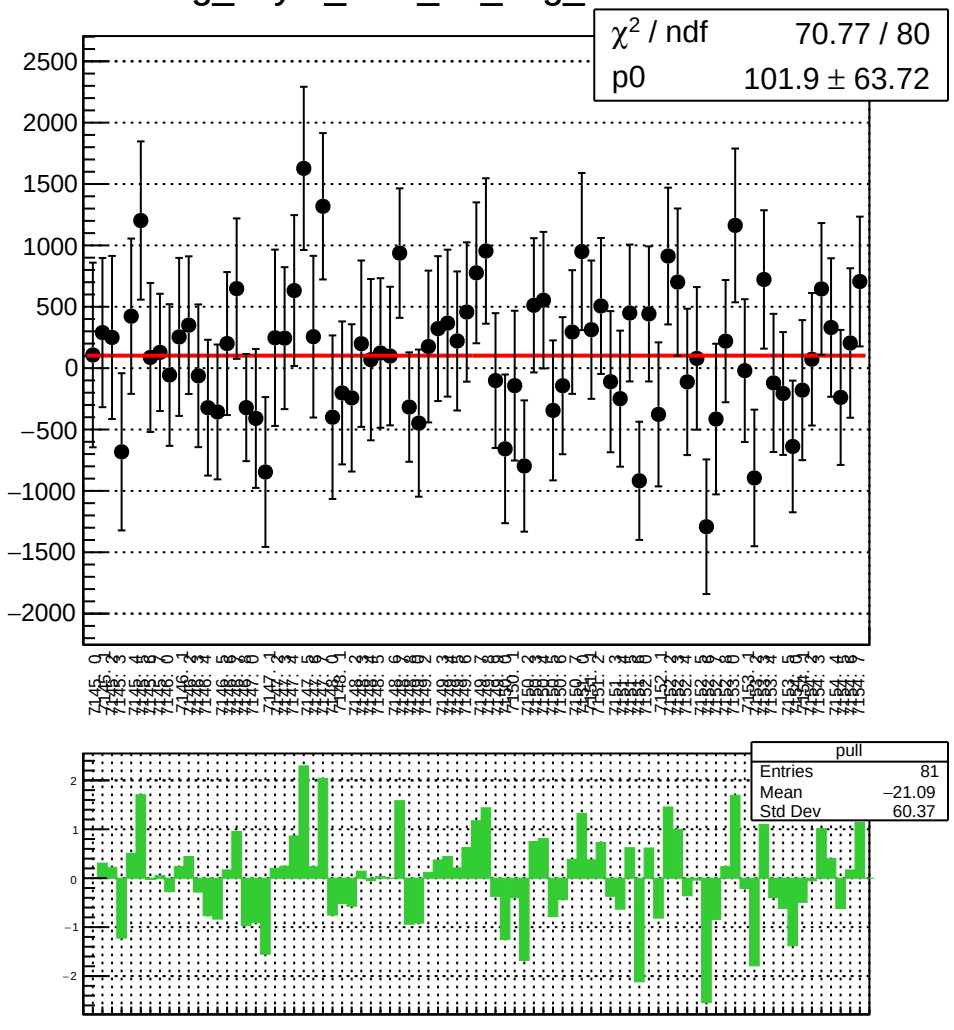

asym_sam_26_avg_correction_mean vs run
χ² / ndf 83.13 / 80
p0 −958.1 ± 445.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −1.442e+04
Std Dev 1.445e+04
pull1D
Entries 81
Mean −0.0002026
Std Dev 1.013

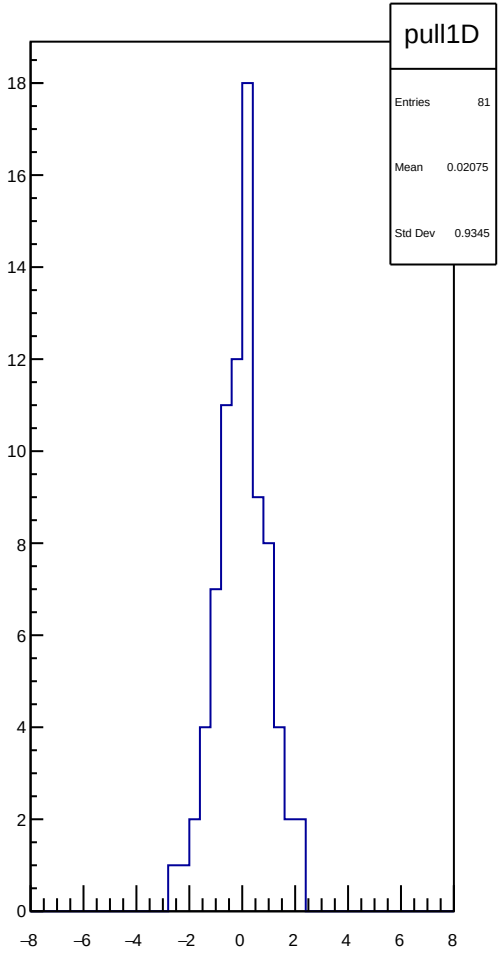

asym_sam_26_avg_correction_rms vs run
χ² / ndf 5436 / 80
p0 390.9 ± 0.315
440
420
400
380
360
340

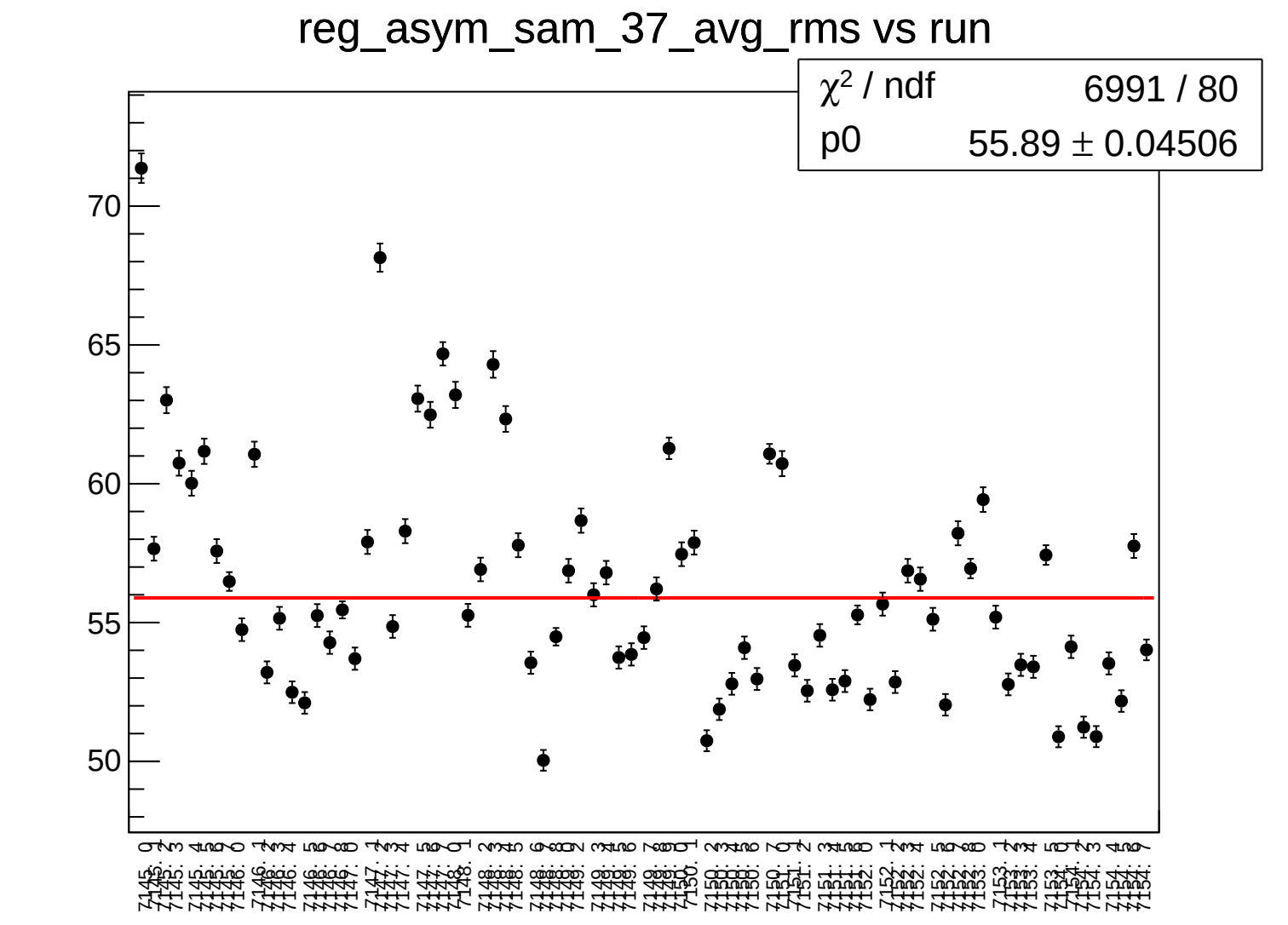

asym_sam_26_avg_mean vs run
χ² / ndf 82.06 / 80
p0 932 ± 451.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 1349
Std Dev 1323
2
1
0
−1
−2
−3

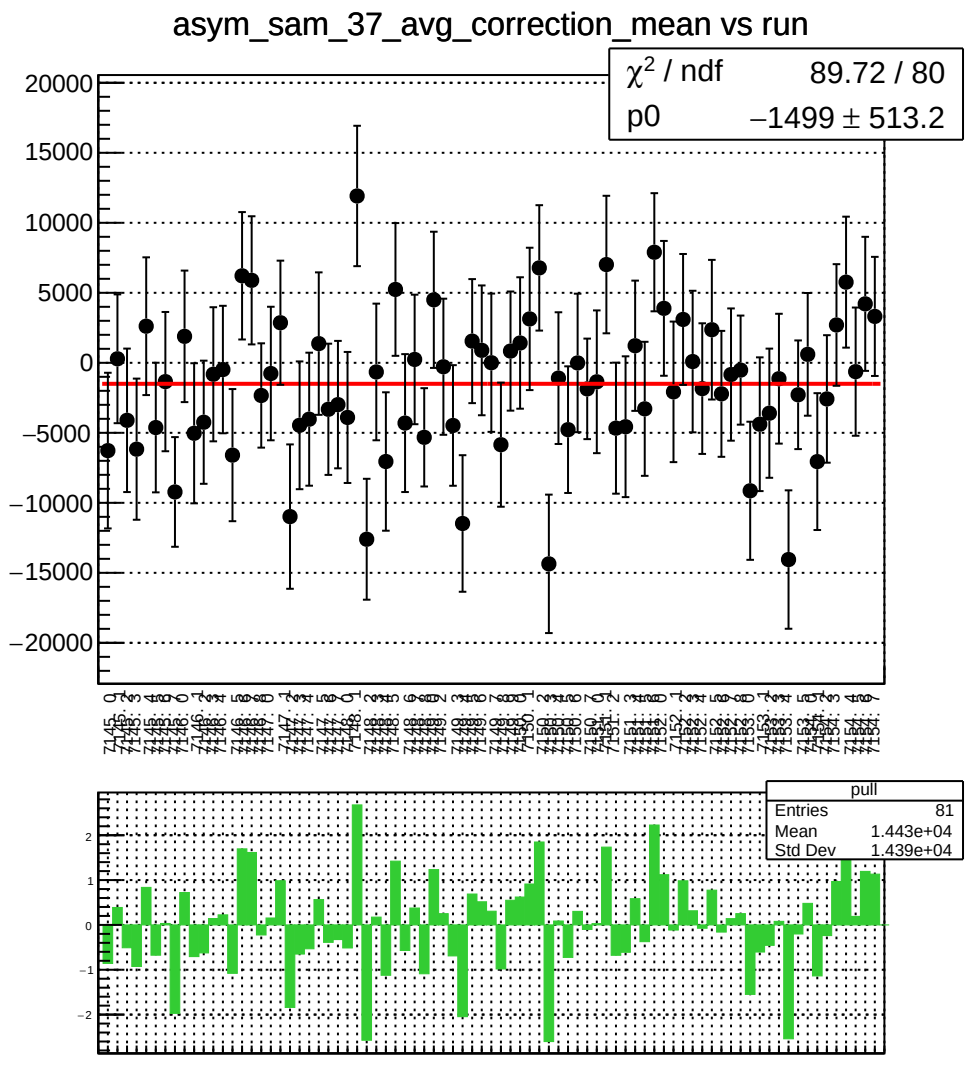

pull1D
Entries 81
Mean −0.001818
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

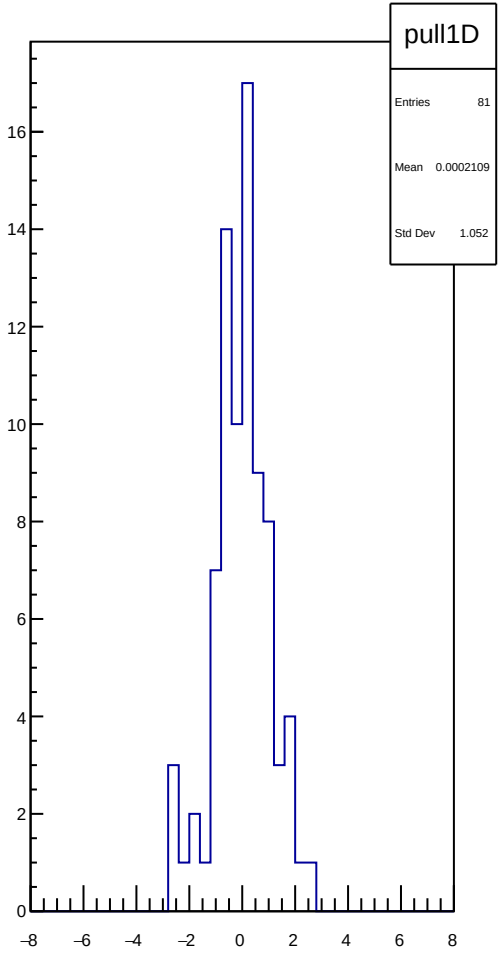

asym_sam_26_avg_rms vs run
χ² / ndf 5304 / 80
p0 396.5 ± 0.3195
460
440
420
400
380
360
340

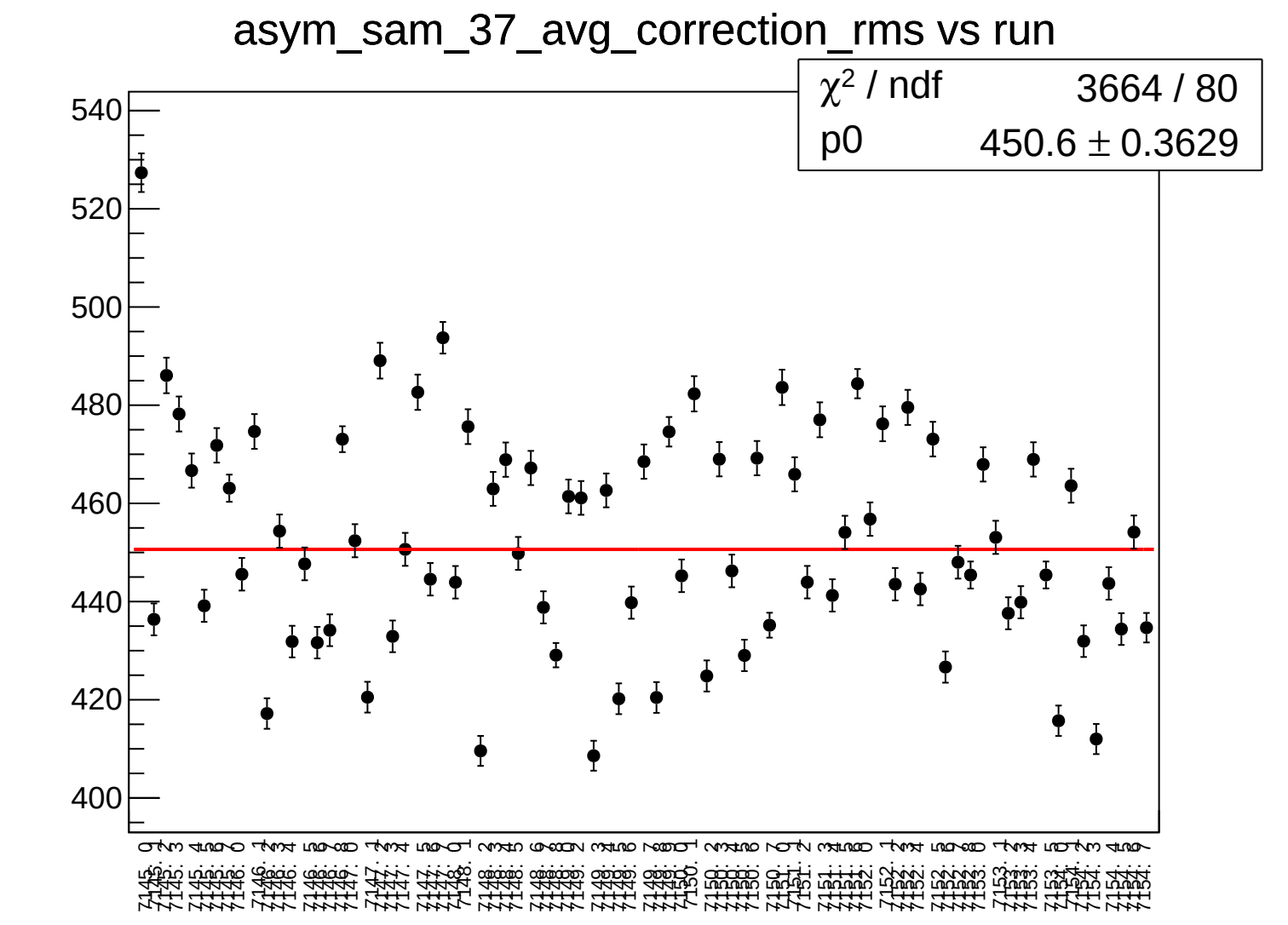

reg_asym_sam_37_avg_mean vs run
χ^2 / ndf 70.77 / 80
p0 101.9 ± 63.72
pull
Entries 81
Mean −21.09
Std Dev 60.37

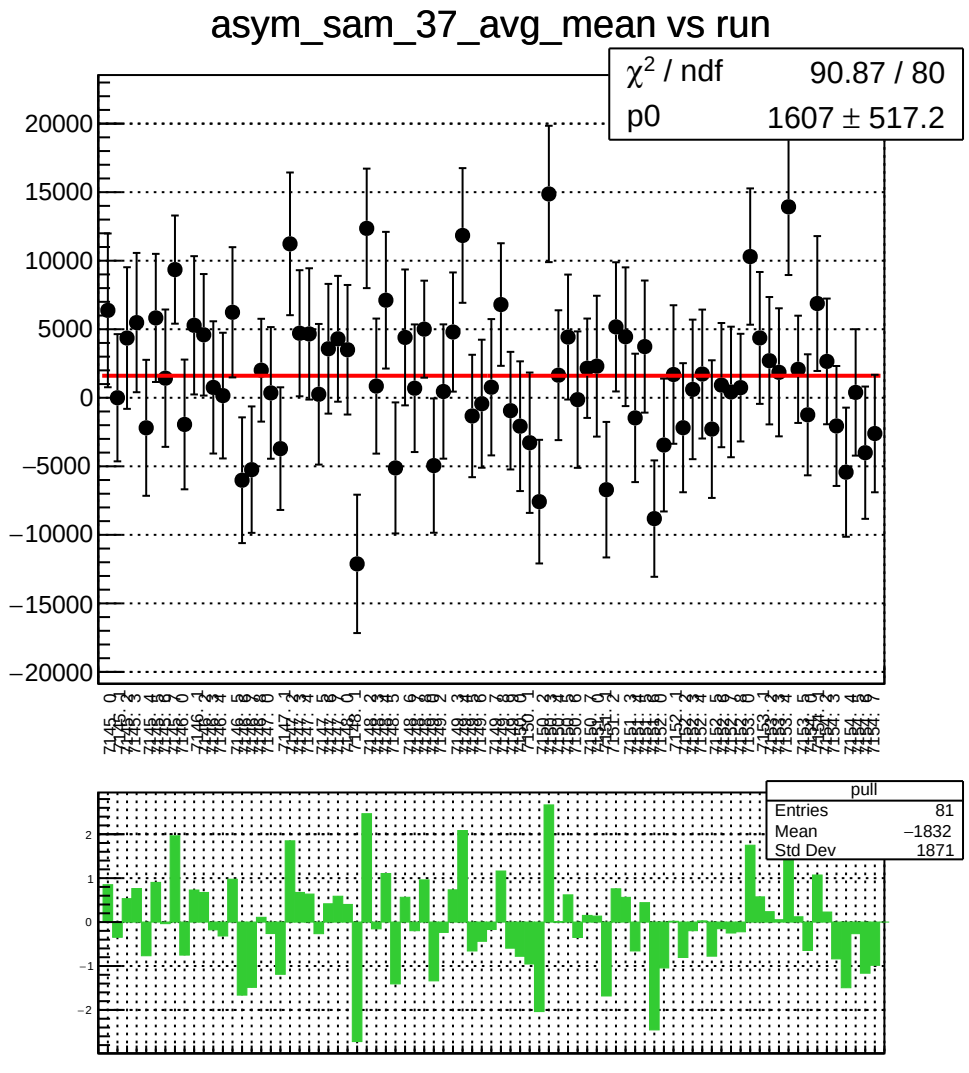

pull1D
Entries 81
Mean 0.02075
Std Dev 0.9345

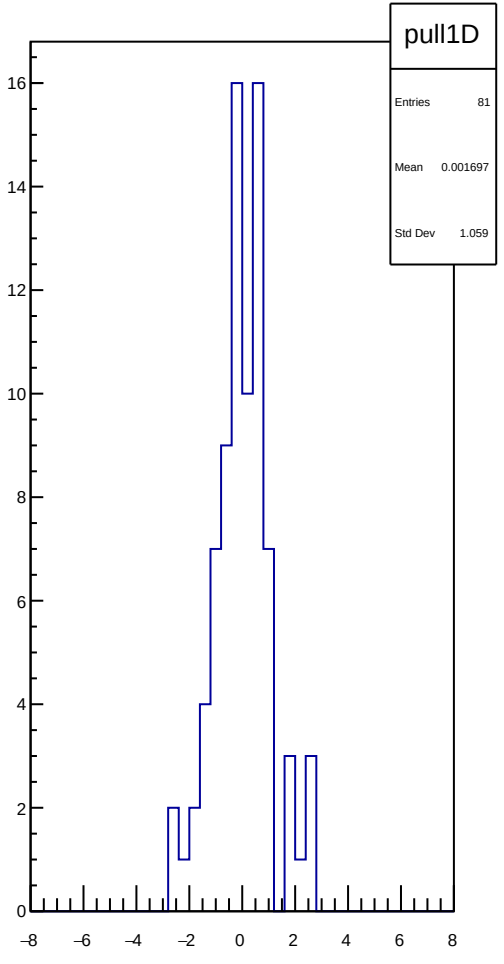

reg_asym_sam_37_avg_rms vs run
χ² / ndf 6991 / 80
p0 55.89 ± 0.04506
70
65
60
55
50

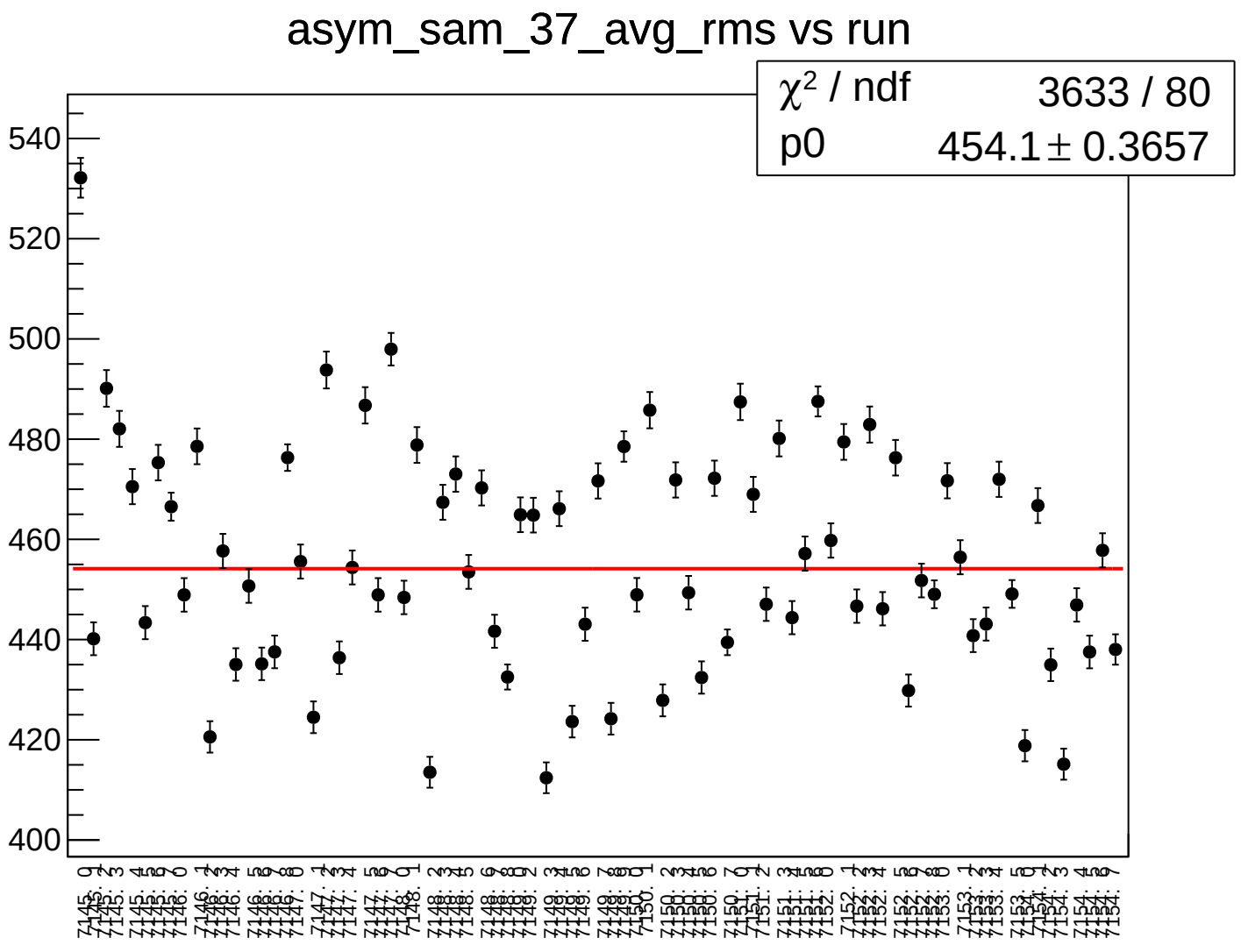

asym_sam_37_avg_correction_mean vs run
χ² / ndf 89.72 / 80
p0 −1499 ± 513.2
pull
Entries 81
Mean 1.443e+04
Std Dev 1.439e+04

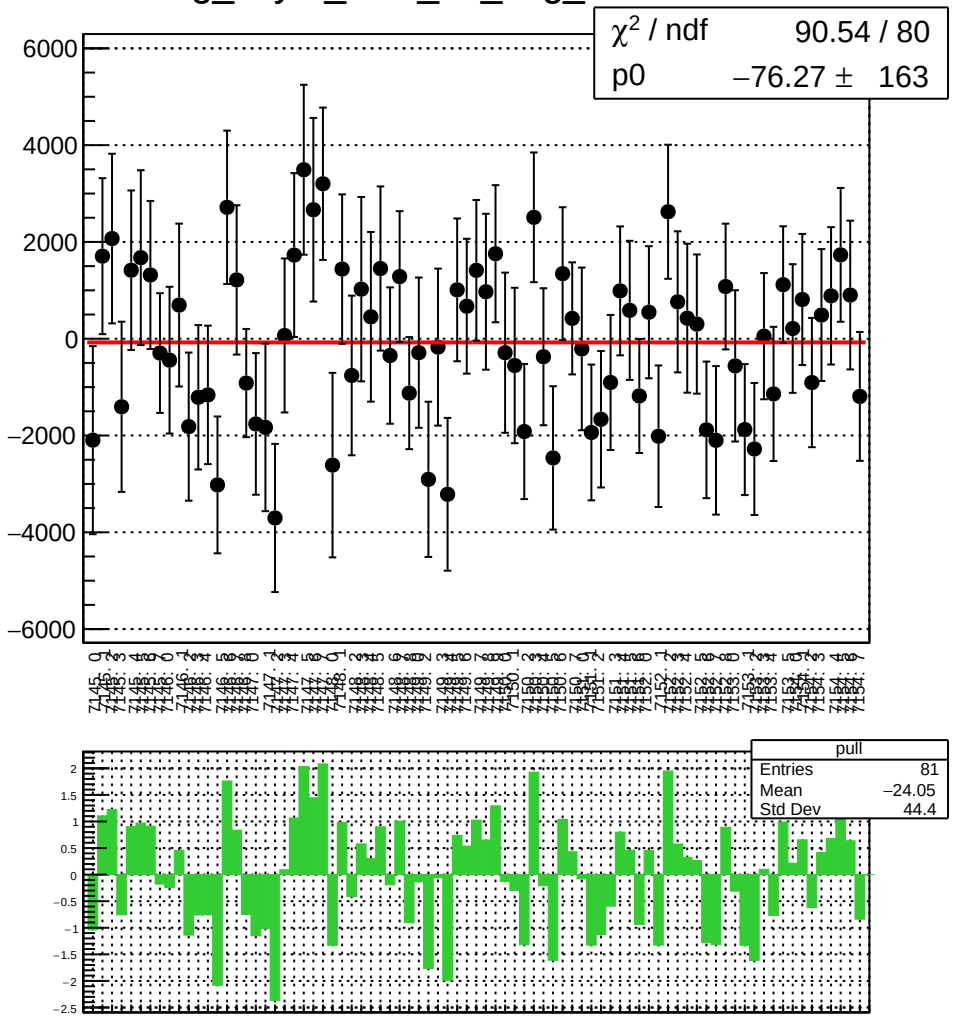

pull1D
Entries 81
Mean 0.0002109
Std Dev 1.052

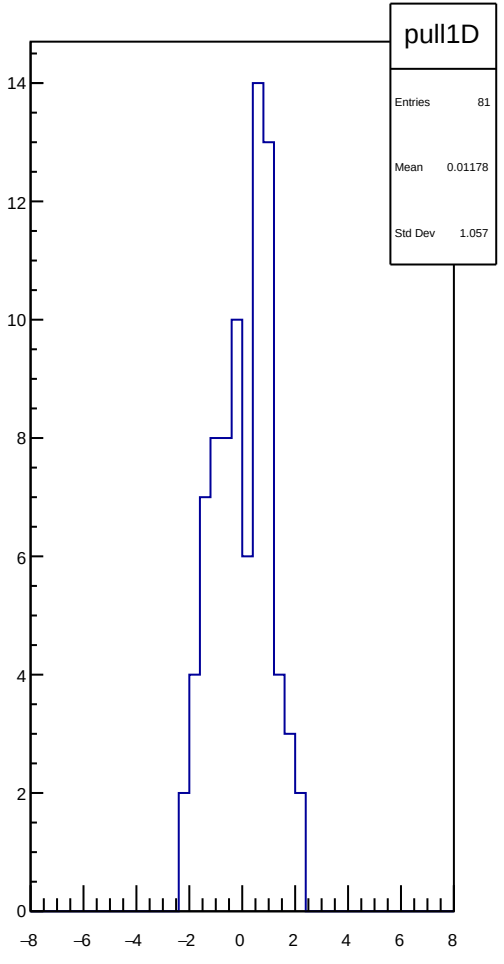

asym_sam_37_avg_correction_rms vs run
χ² / ndf 3664 / 80
p0 450.6 ± 0.3629
540
520
500
480
460
440
420
400

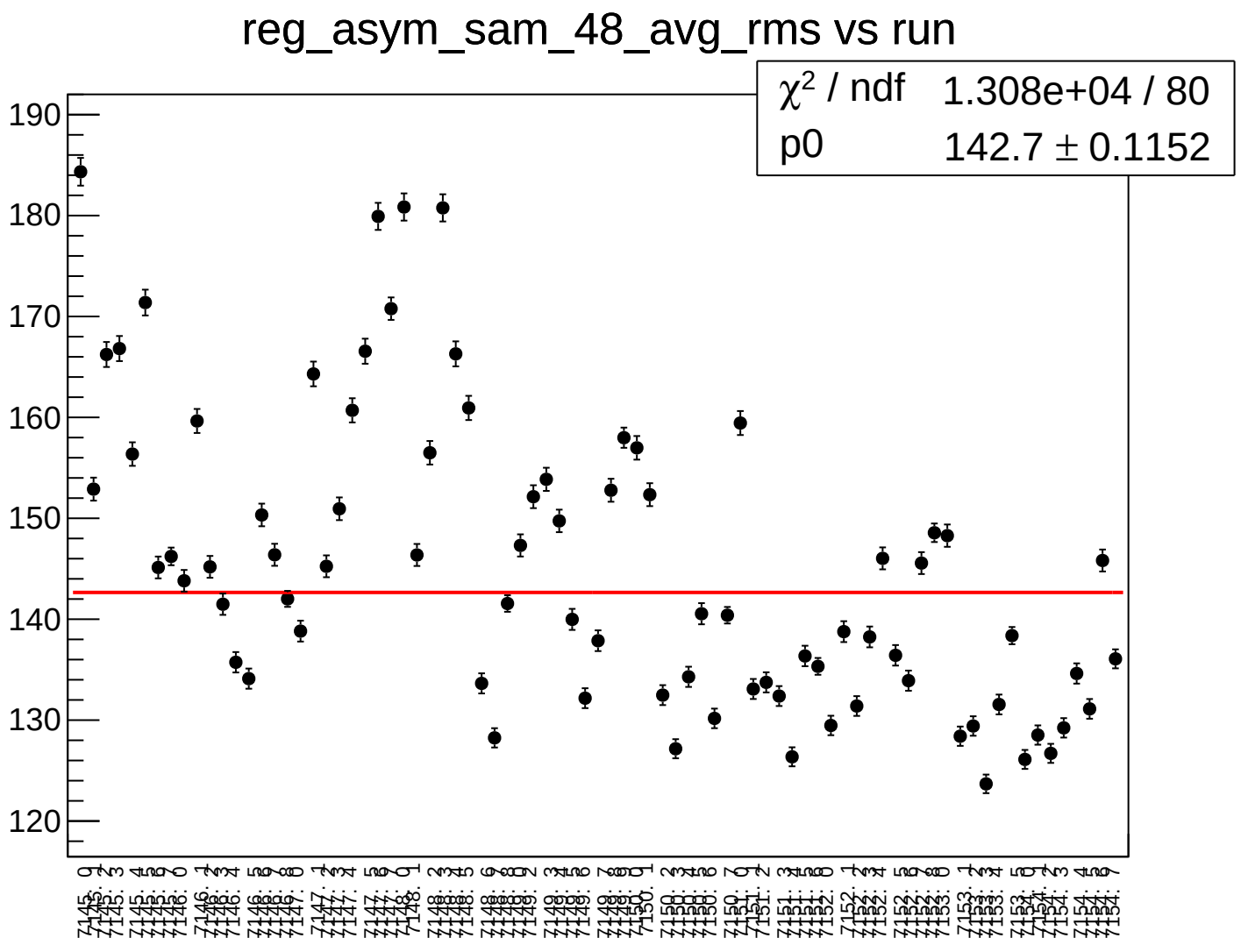

asym_sam_37_avg_mean vs run
χ² / ndf 90.87 / 80
p0 1607 ± 517.2
pull
Entries 81
Mean −1832
Std Dev 1871

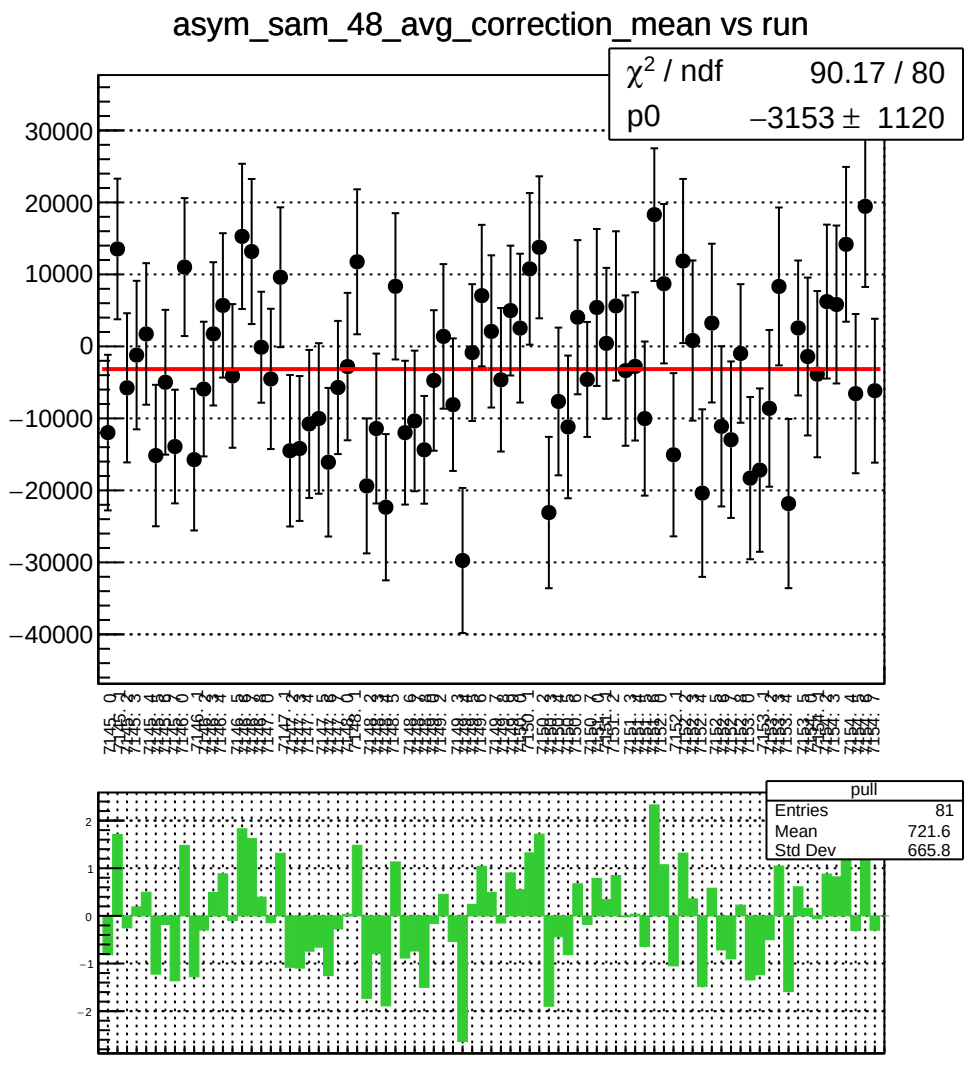

pull1D
Entries 81
Mean 0.001697
Std Dev 1.059

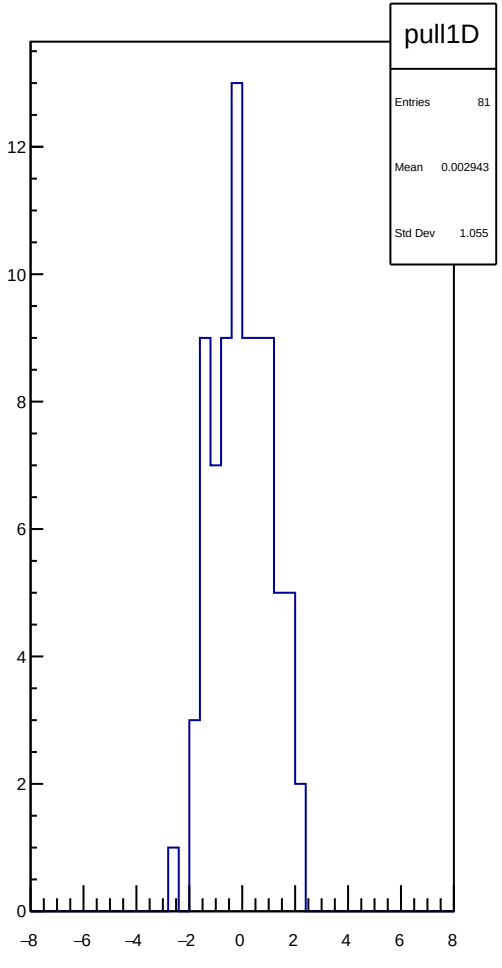

asym_sam_37_avg_rms vs run
χ² / ndf 3633 / 80
p0 454.1 ± 0.3657
540
520
500
480
460
440
420
400

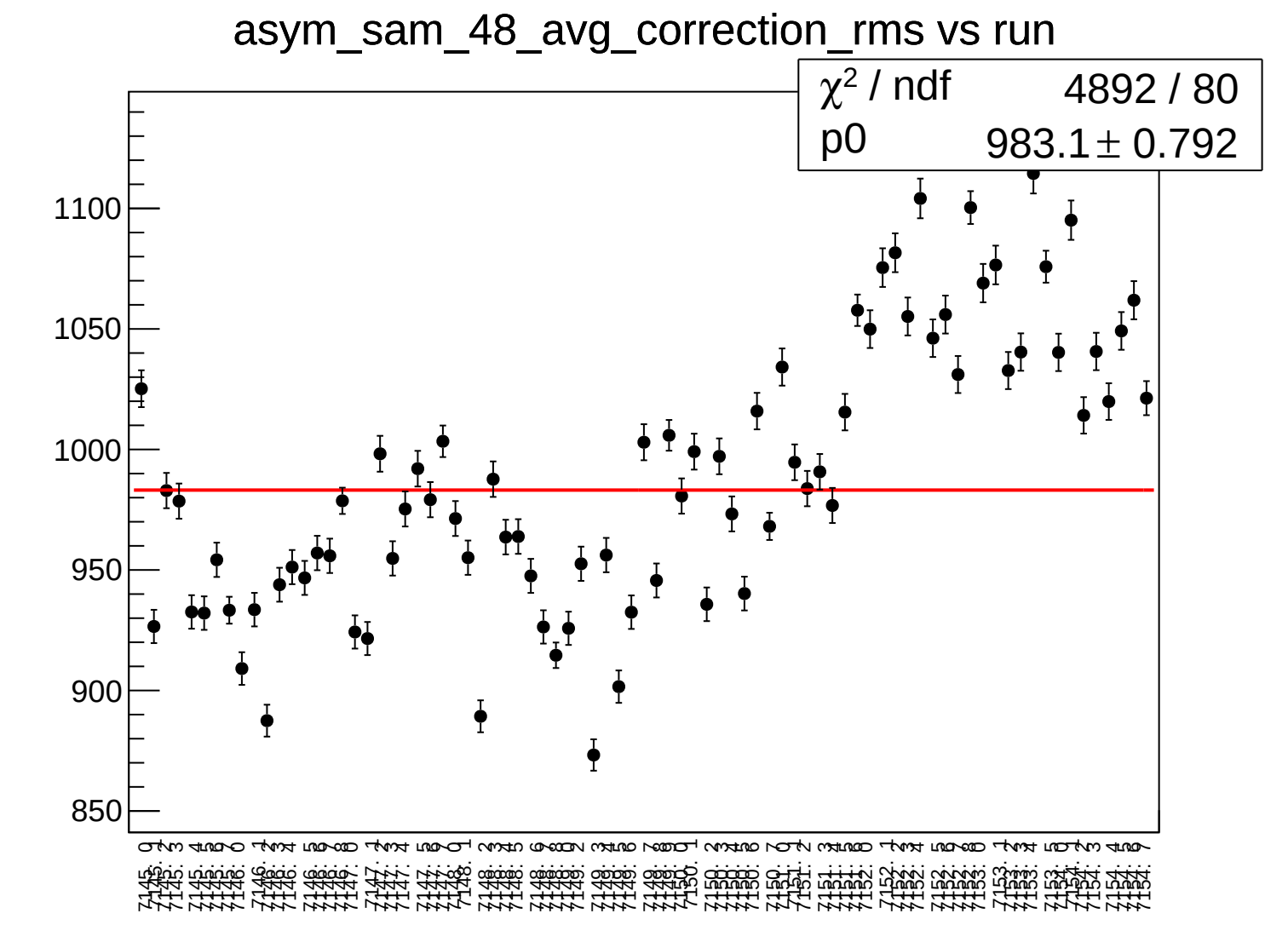

reg_asym_sam_48_avg_mean vs run
χ² / ndf 90.54 / 80
p0 −76.27 ± 163
pull
Entries 81
Mean −24.05
Std Dev 44.4

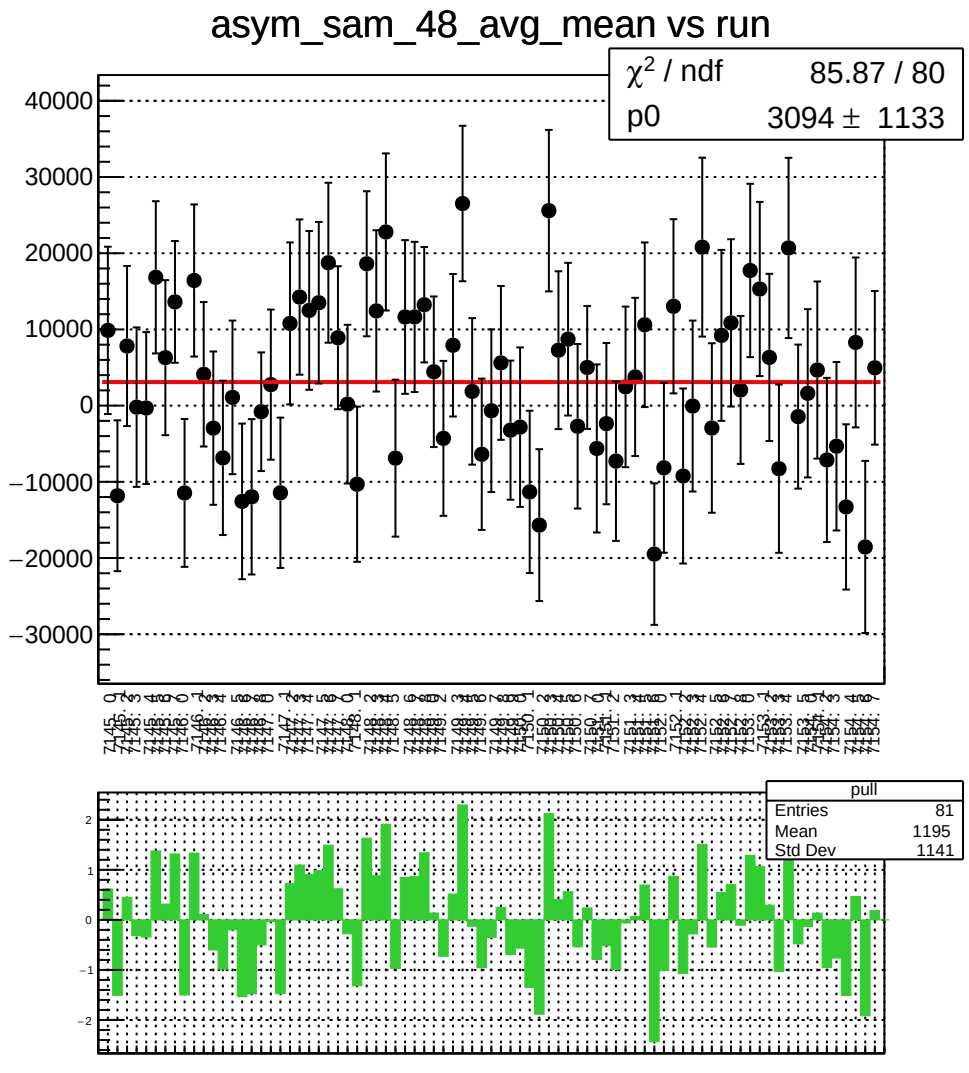

pull1D
Entries 81
Mean 0.01178
Std Dev 1.057

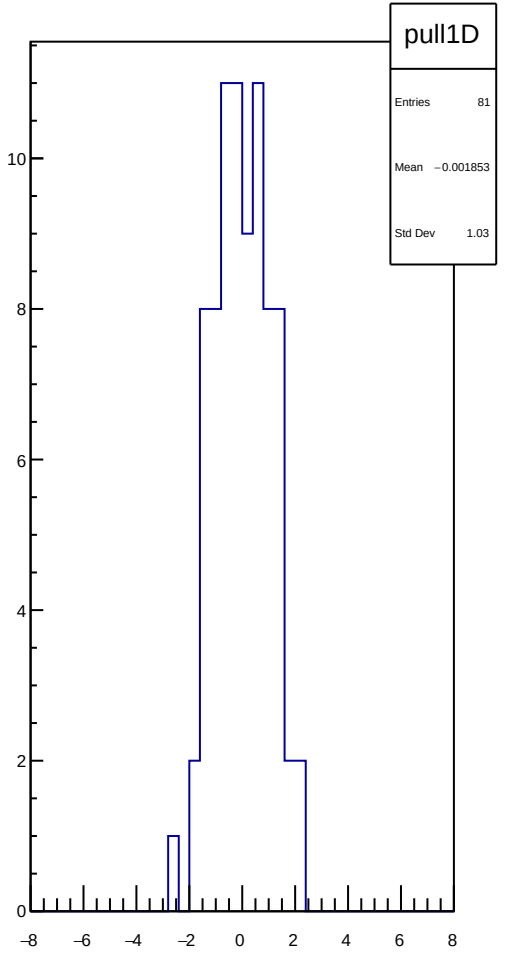

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.308e+04 / 80
p0 142.7 ± 0.1152
190
180
170
160
150
140
130
120

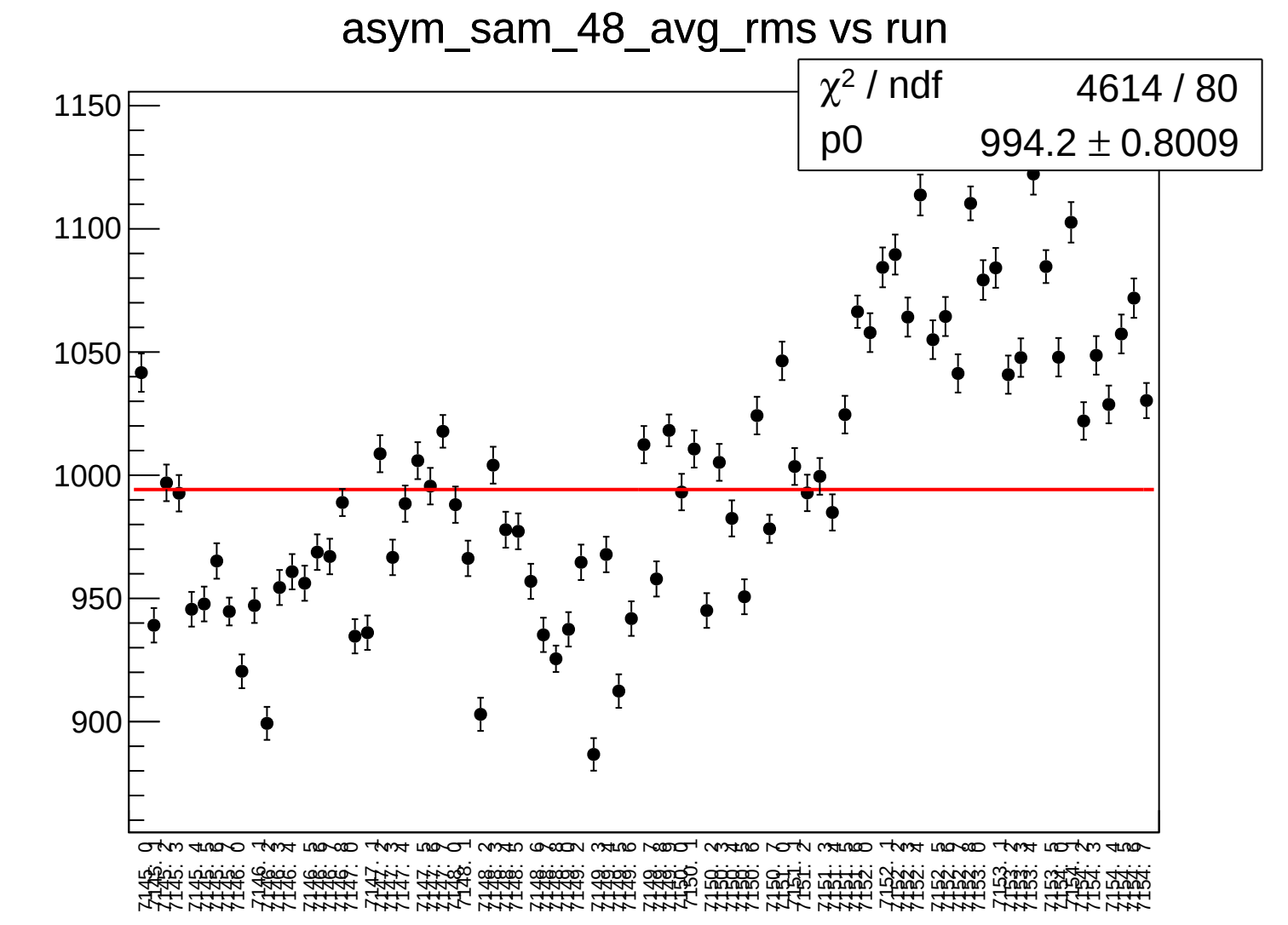

asym_sam_48_avg_correction_mean vs run
χ² / ndf 90.17 / 80
p0 −3153 ± 1120
pull
Entries 81
Mean 721.6
Std Dev 665.8

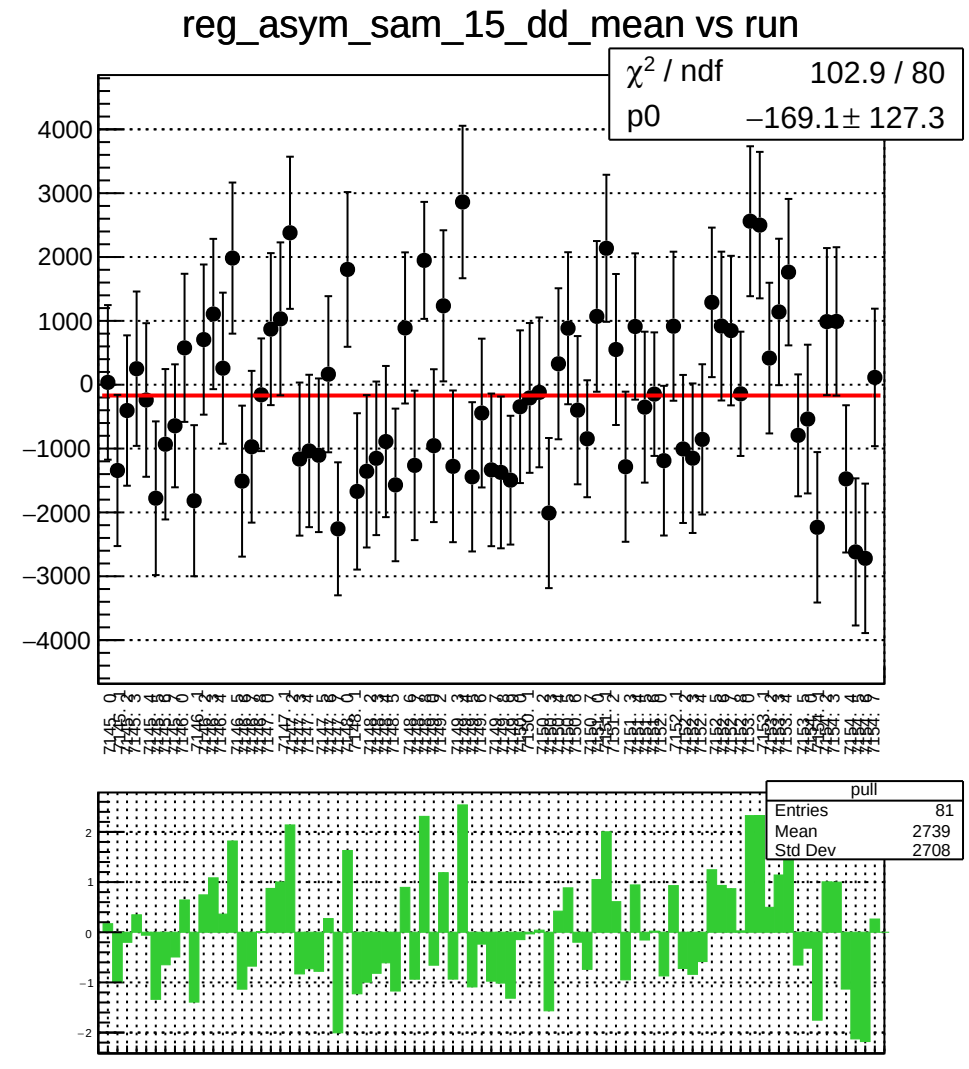

pull1D
Entries 81
Mean 0.002943
Std Dev 1.055

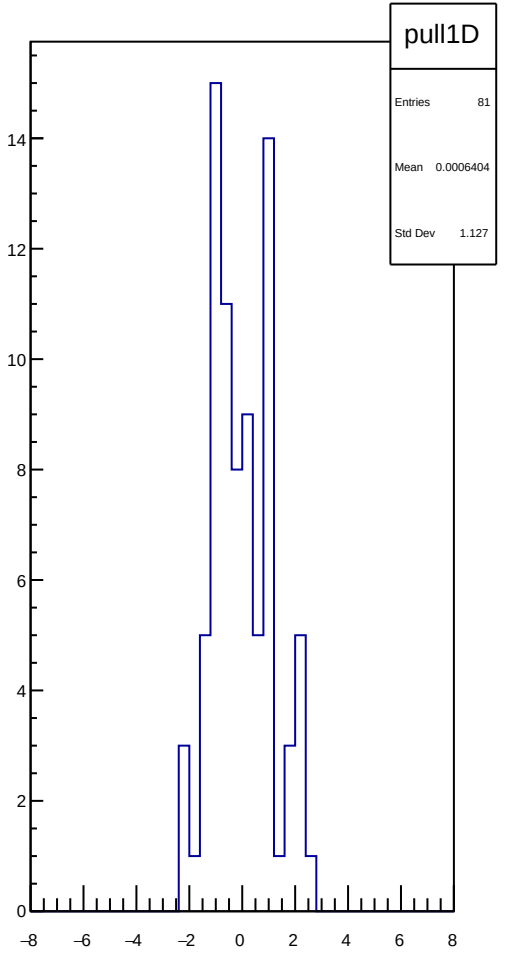

asym_sam_48_avg_correction_rms vs run
χ² / ndf 4892 / 80
p0 983.1 ± 0.792
1100
1050
1000
950
900
850

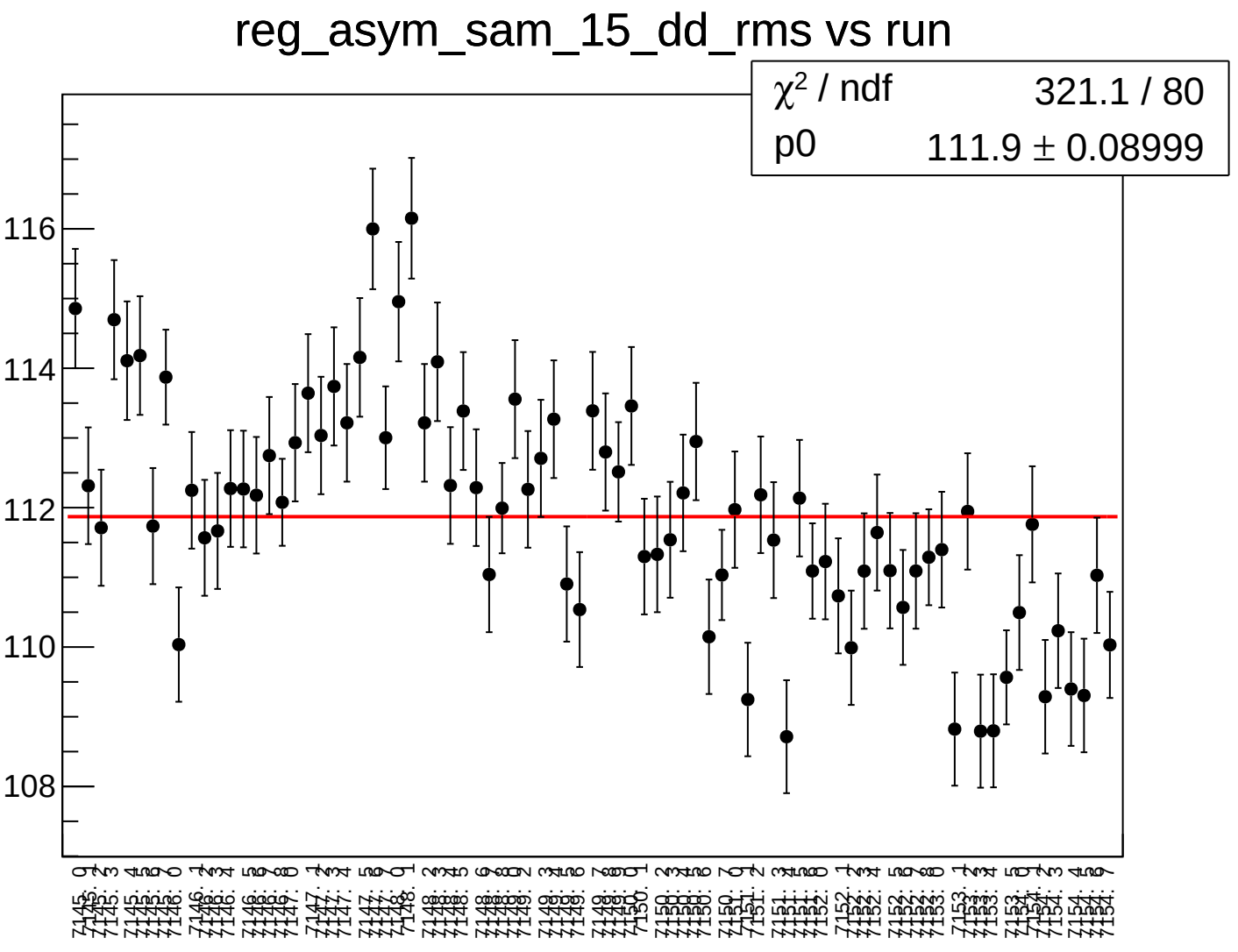

asym_sam_48_avg_mean vs run
χ² / ndf 85.87 / 80
p0 3094 ± 1133
pull
Entries 81
Mean 1195
Std Dev 1141

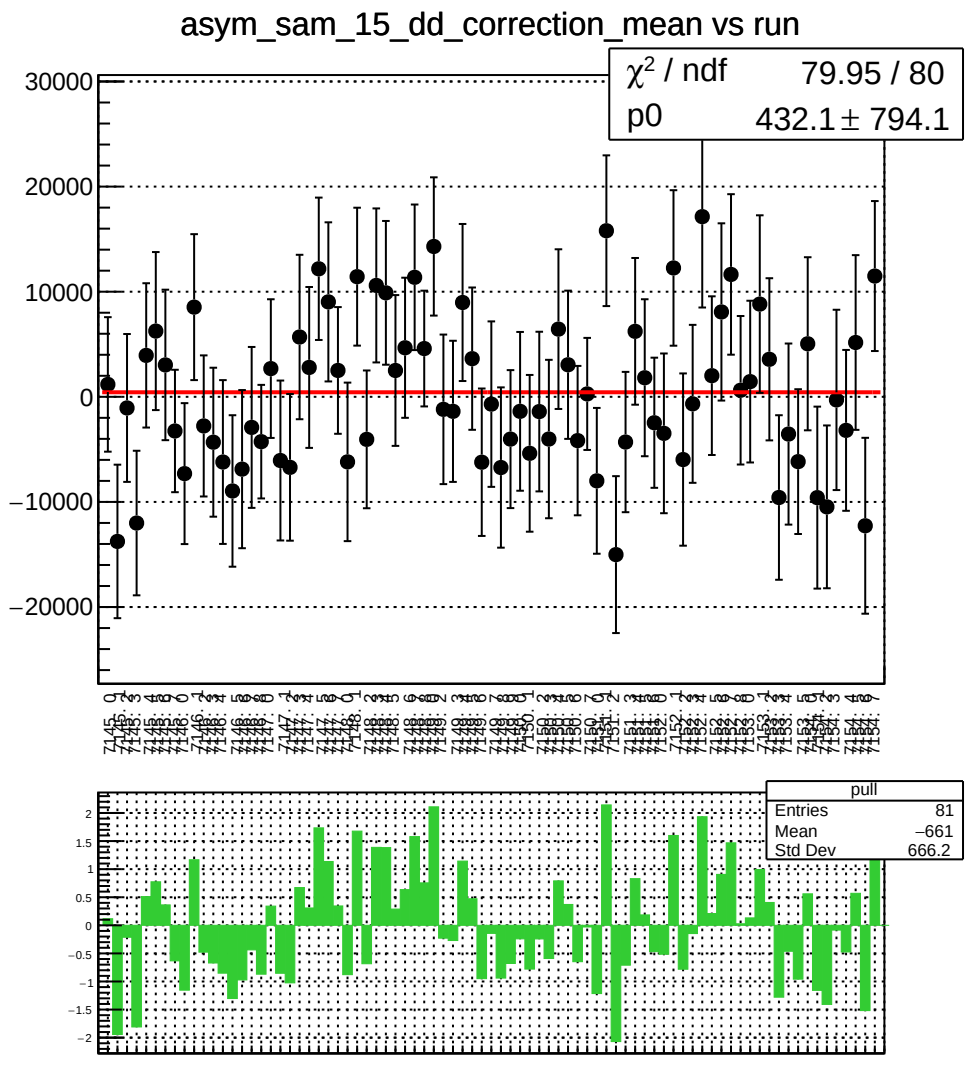

pull1D
Entries 81
Mean −0.001853
Std Dev 1.03

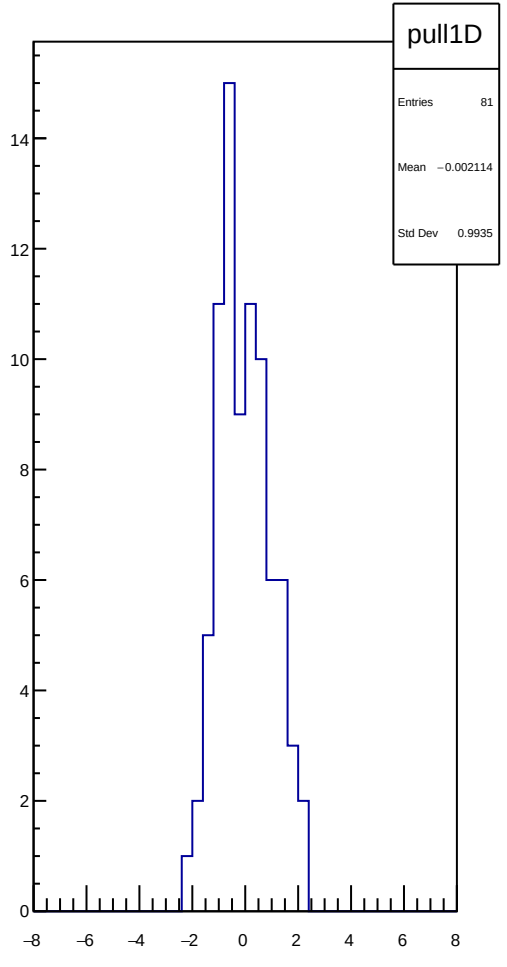

asym_sam_48_avg_rms vs run
χ² / ndf 4614 / 80
p0 994.2 ± 0.8009
1150
1100
1050
1000
950
900

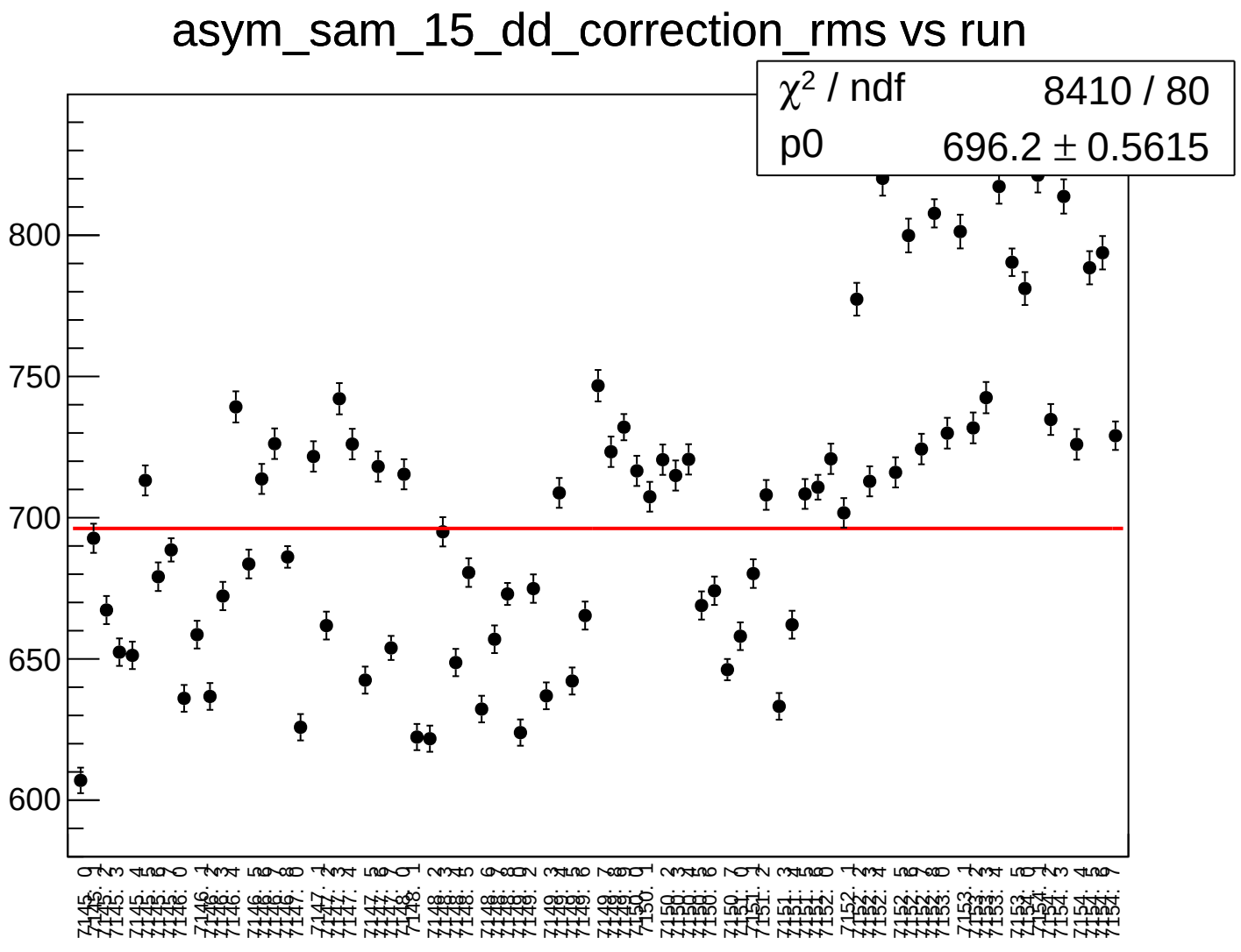

reg_asym_sam_15_dd_mean vs run
χ² / ndf 102.9 / 80
p0 −169.1± 127.3
pull
Entries 81
Mean 2739
Std Dev 2708

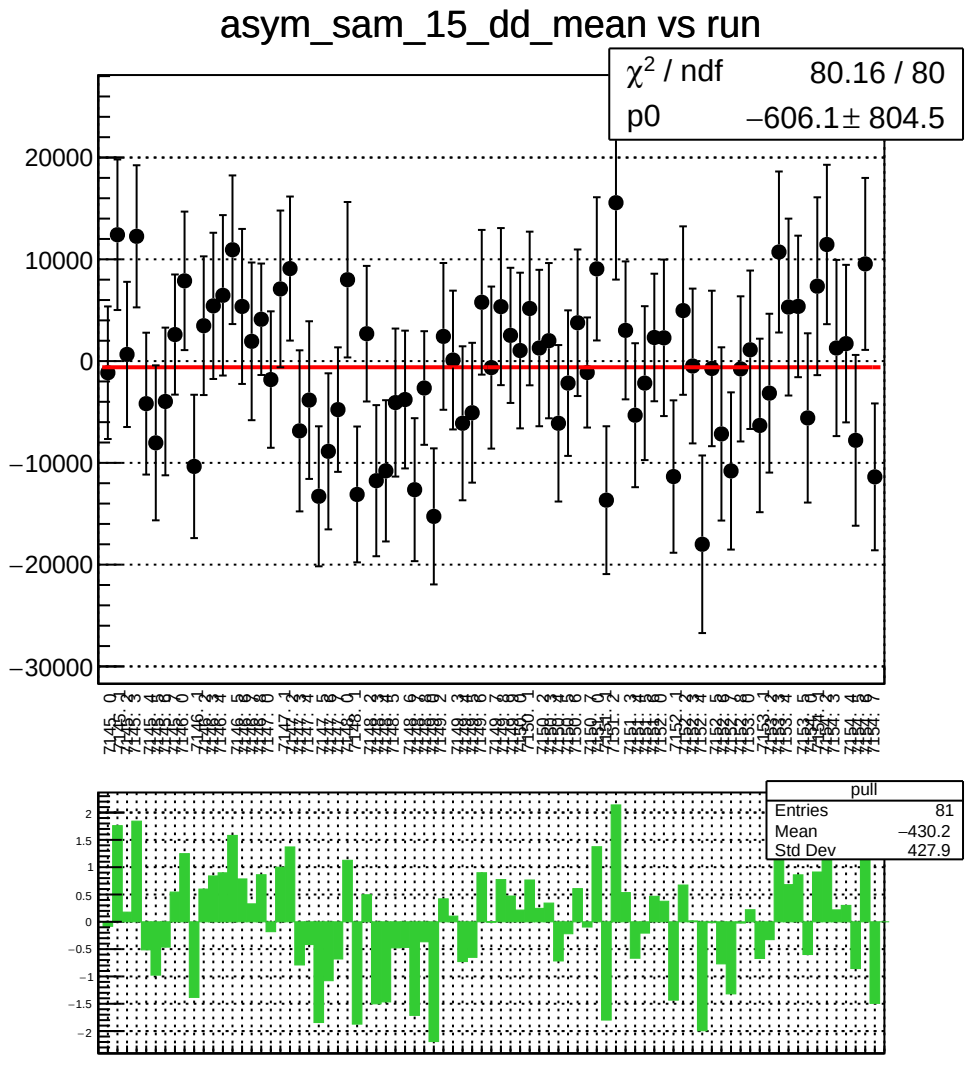

pull1D
Entries 81
Mean 0.0006404
Std Dev 1.127

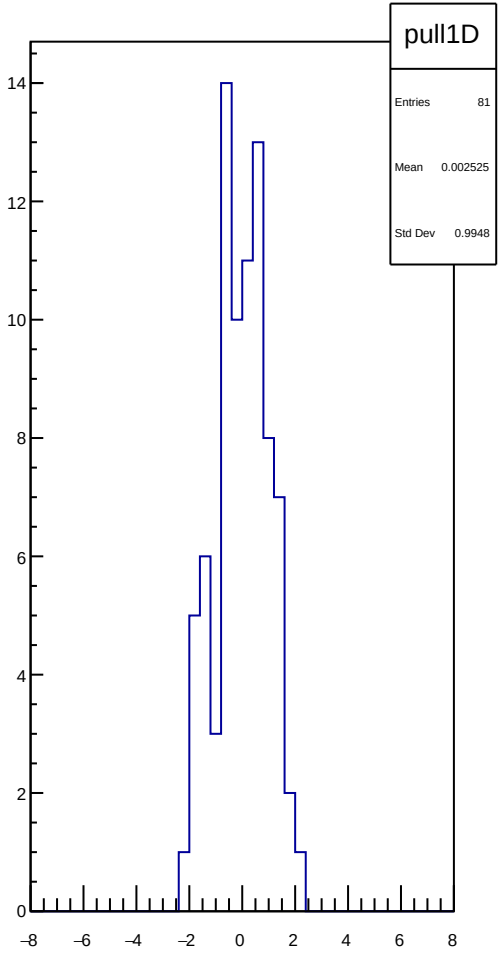

reg_asym_sam_15_dd_rms vs run
χ² / ndf 321.1 / 80
p0 111.9 ± 0.08999
116
114
112
110
108

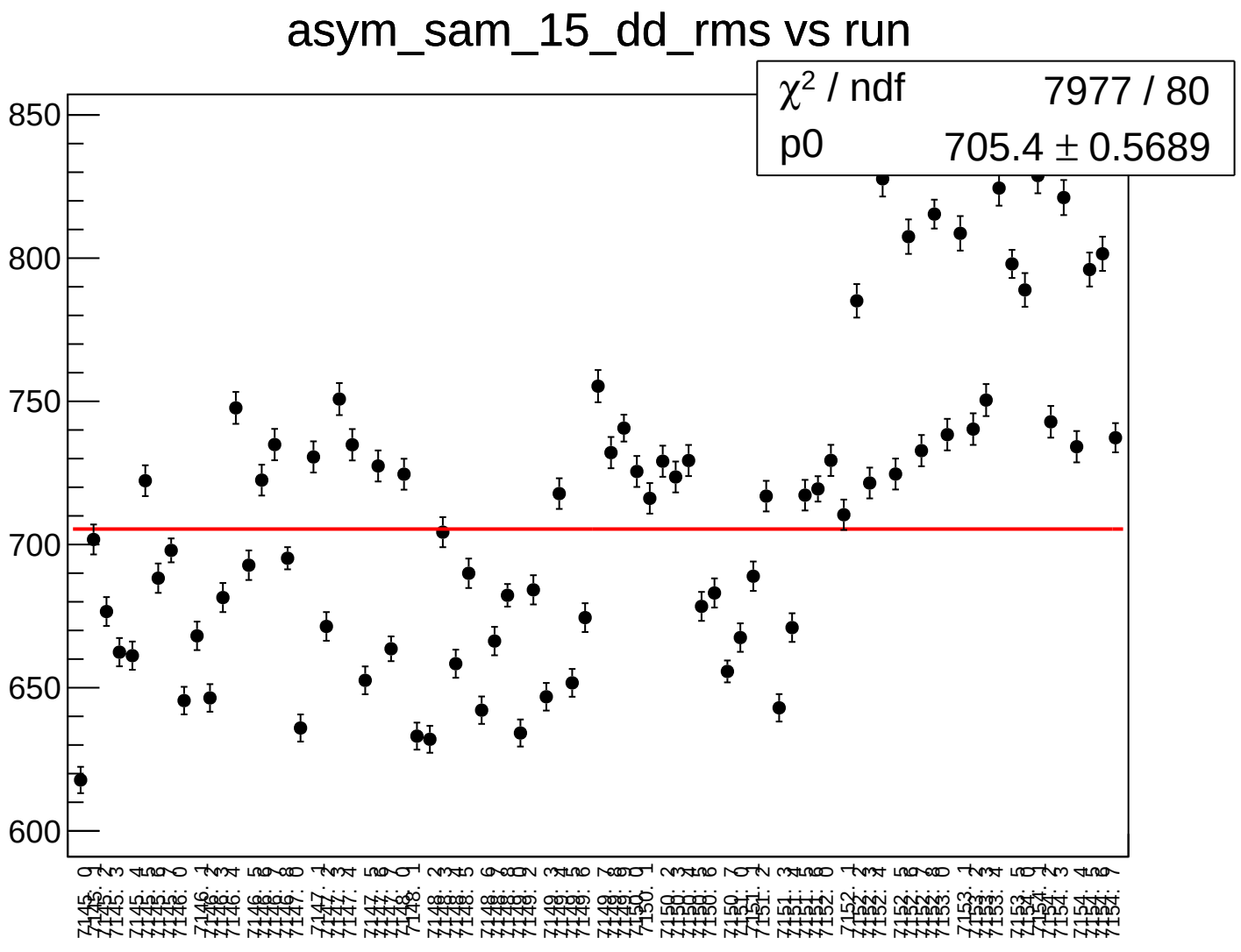

asym_sam_15_dd_correction_mean vs run
χ² / ndf 79.95 / 80
p0 432.1 ± 794.1
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −661
Std Dev 666.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

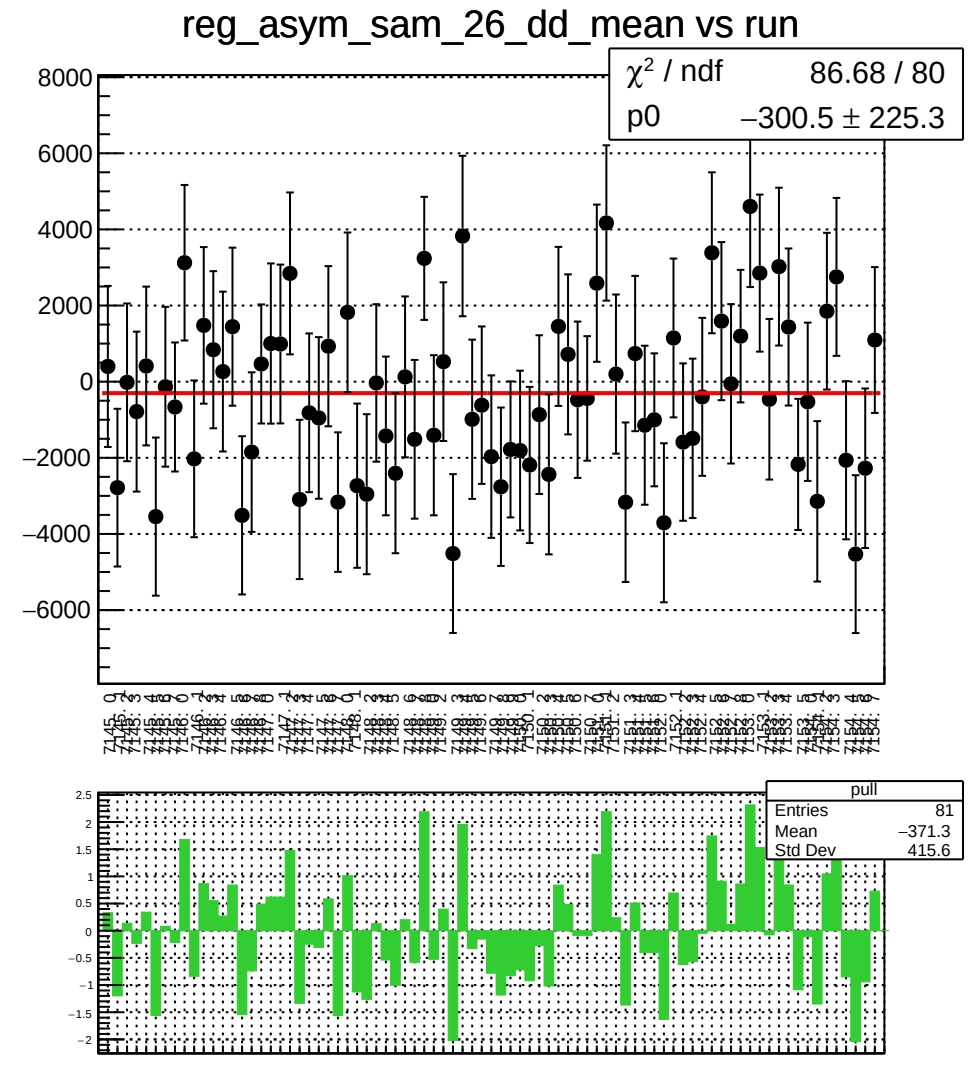

pull1D
Entries 81
Mean −0.002114
Std Dev 0.9935
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

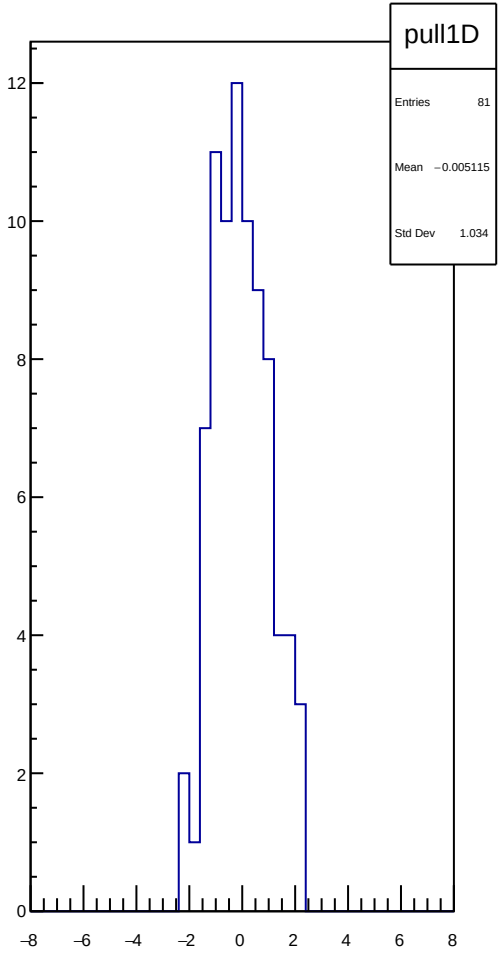

asym_sam_15_dd_correction_rms vs run
χ² / ndf 8410 / 80
p0 696.2 ± 0.5615
800
750
700
650
600

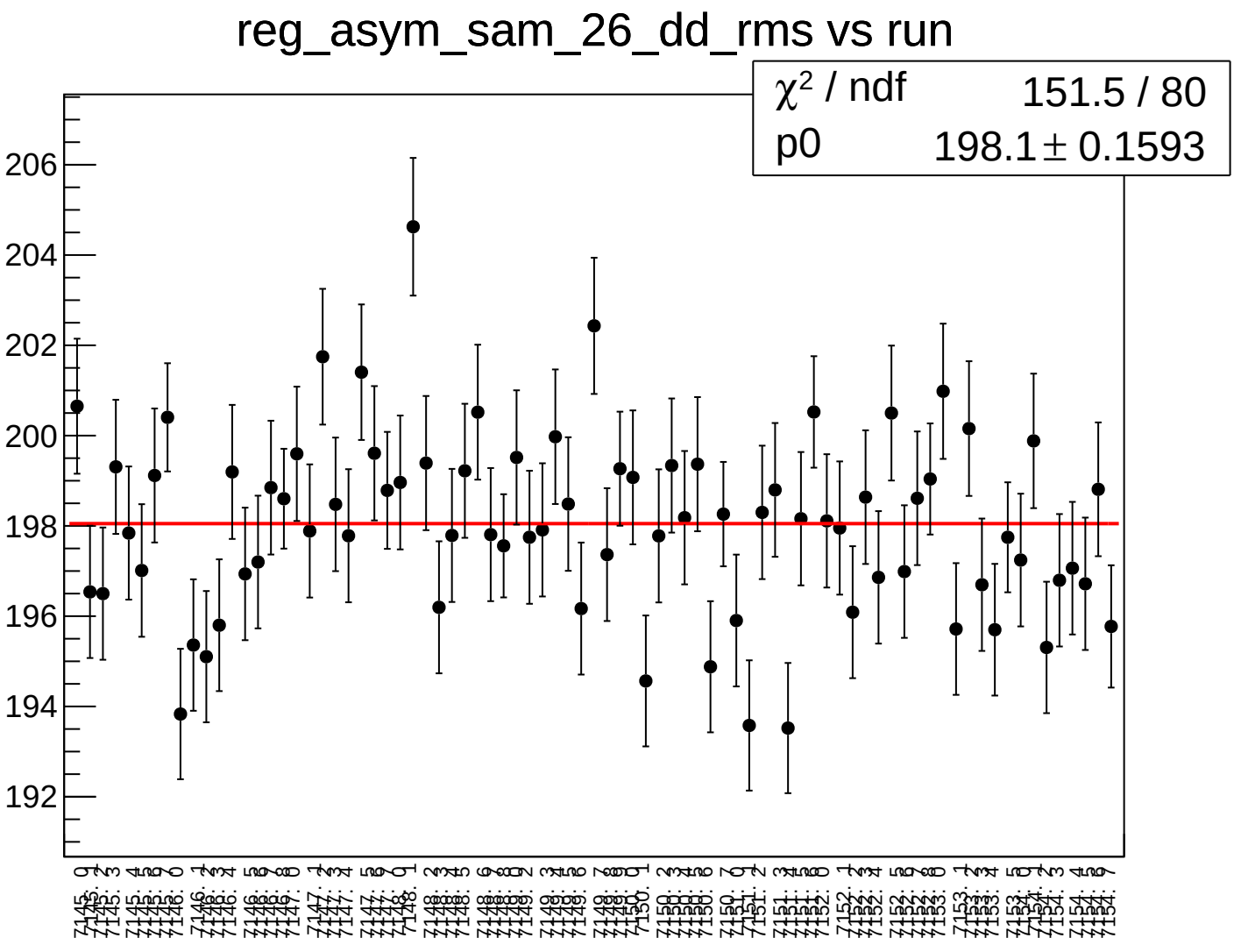

asym_sam_15_dd_mean vs run
χ² / ndf 80.16 / 80
p0 −606.1 ± 804.5
pull
Entries 81
Mean −430.2
Std Dev 427.9

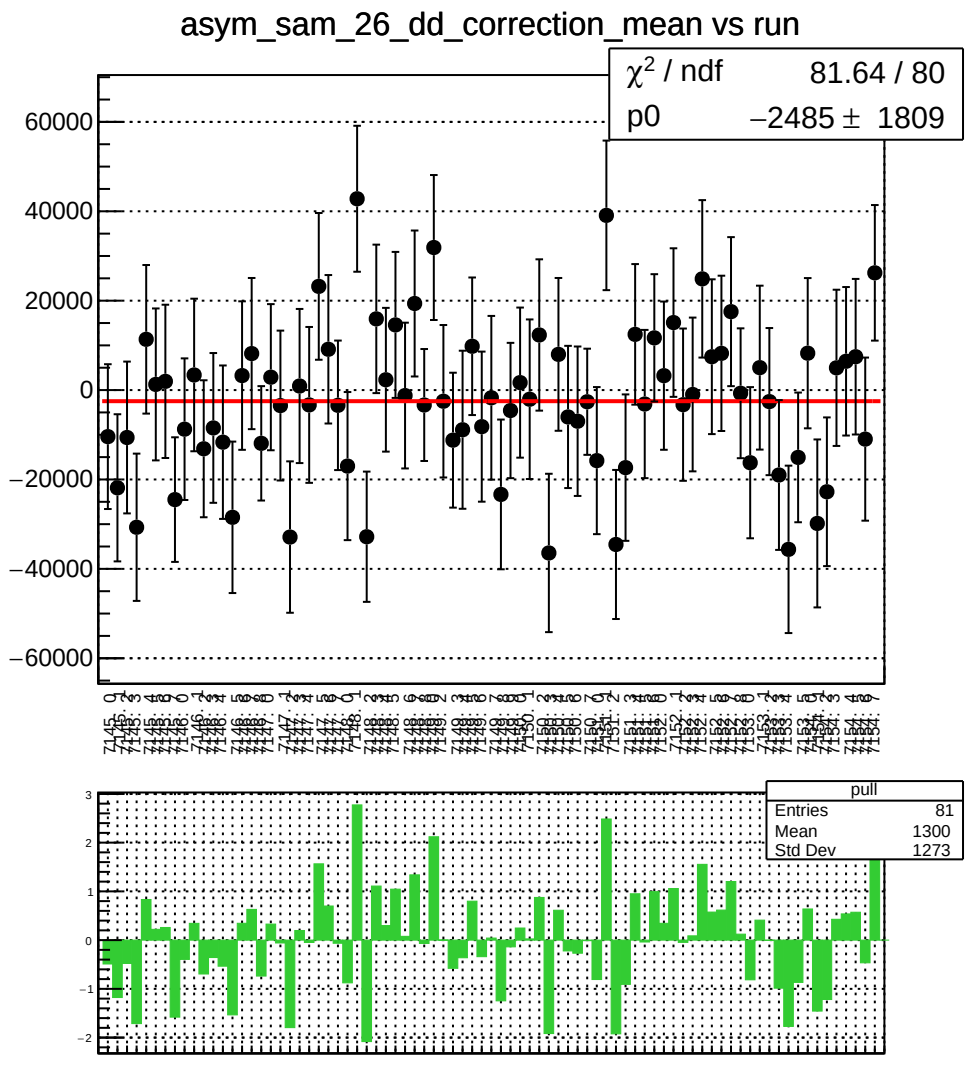

pull1D
Entries 81
Mean 0.002525
Std Dev 0.9948

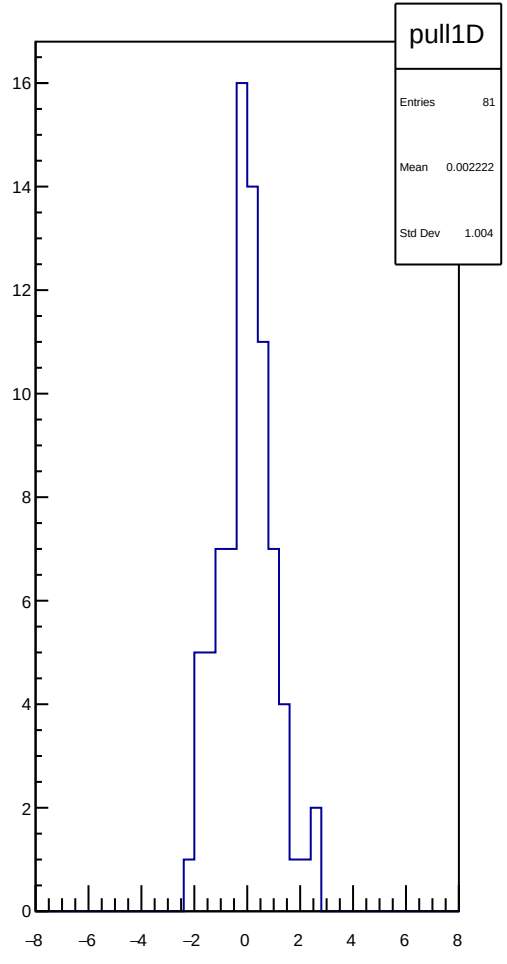

asym_sam_15_dd_rms vs run
χ² / ndf 7977 / 80
p0 705.4 ± 0.5689
850
800
750
700
650
600

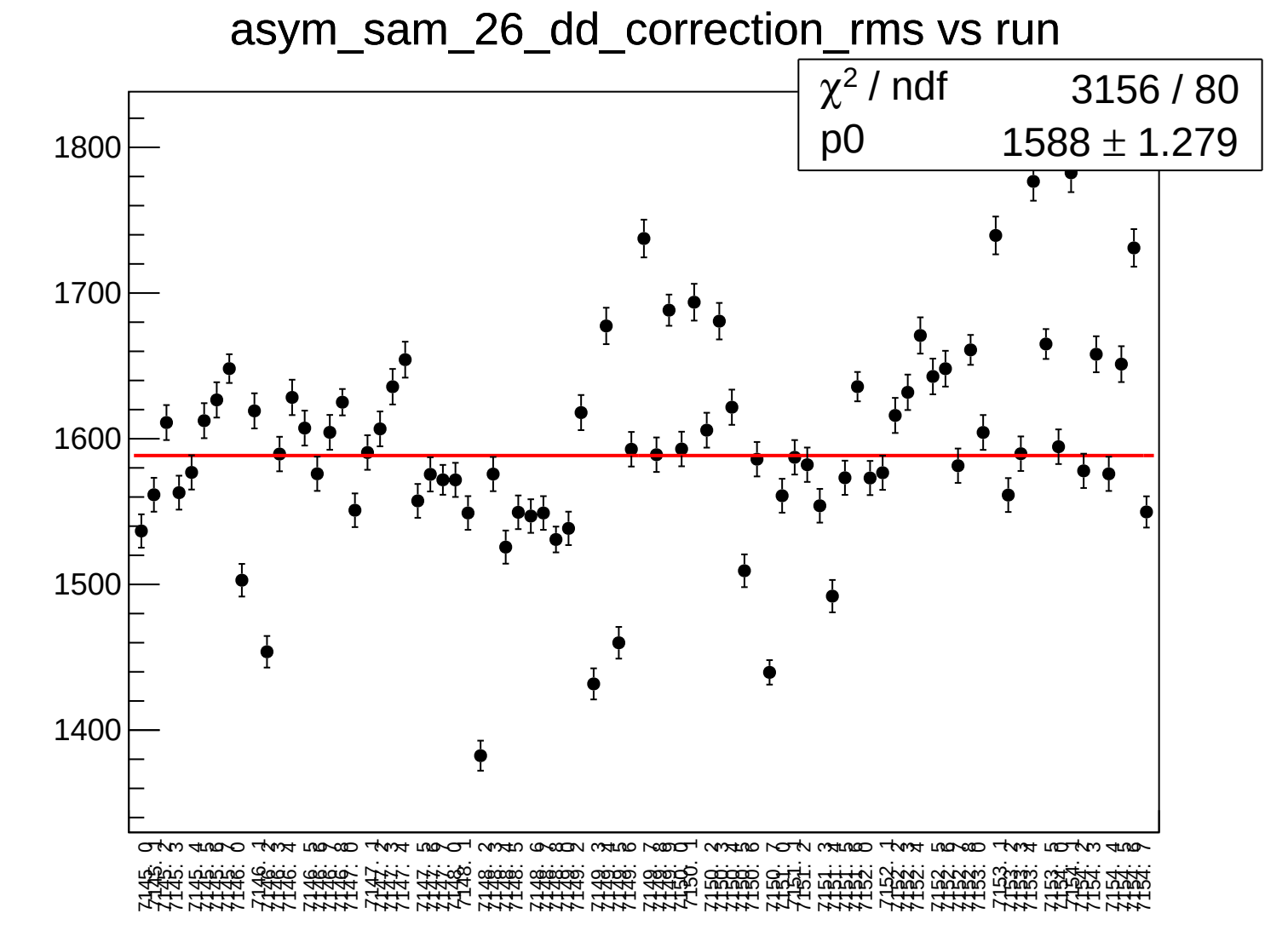

reg_asym_sam_26_dd_mean vs run
χ² / ndf 86.68 / 80
p0 −300.5 ± 225.3
pull
Entries 81
Mean −371.3
Std Dev 415.6

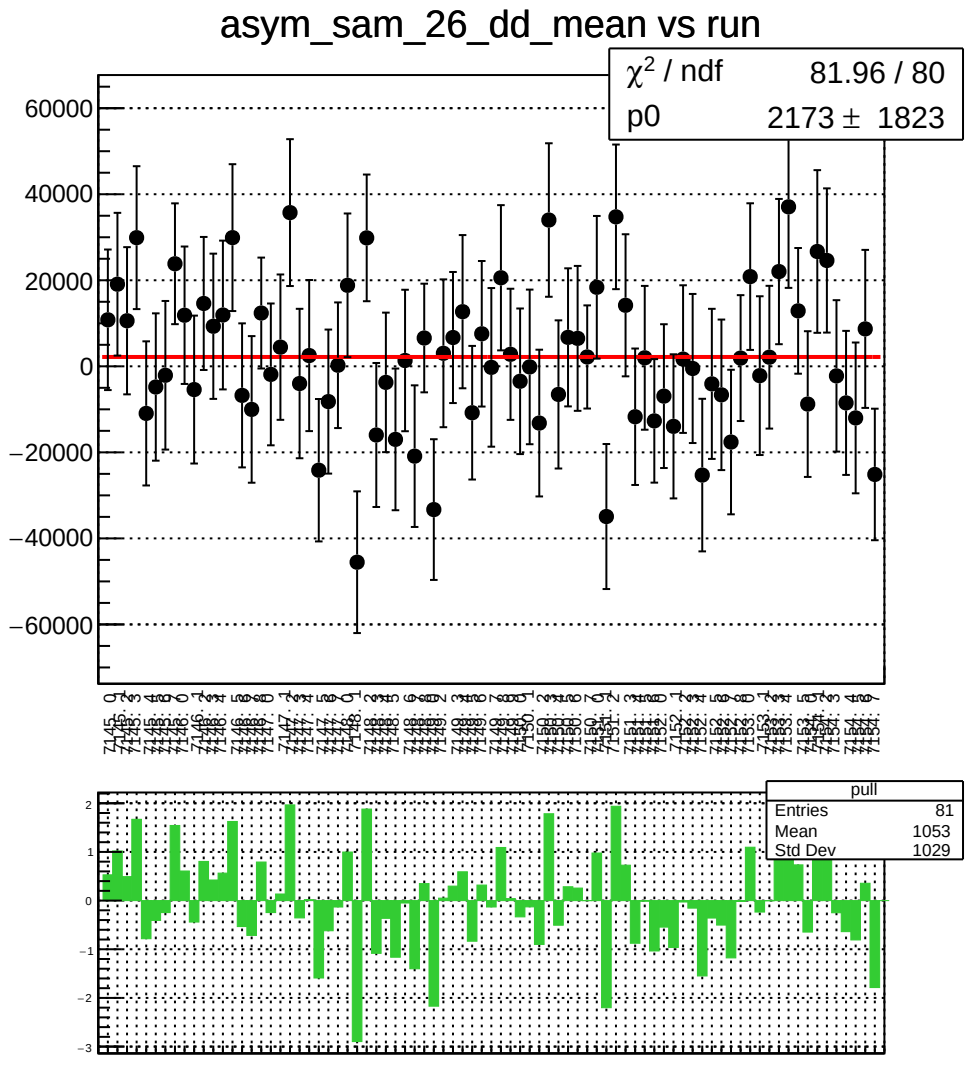

pull1D
Entries 81
Mean −0.005115
Std Dev 1.034

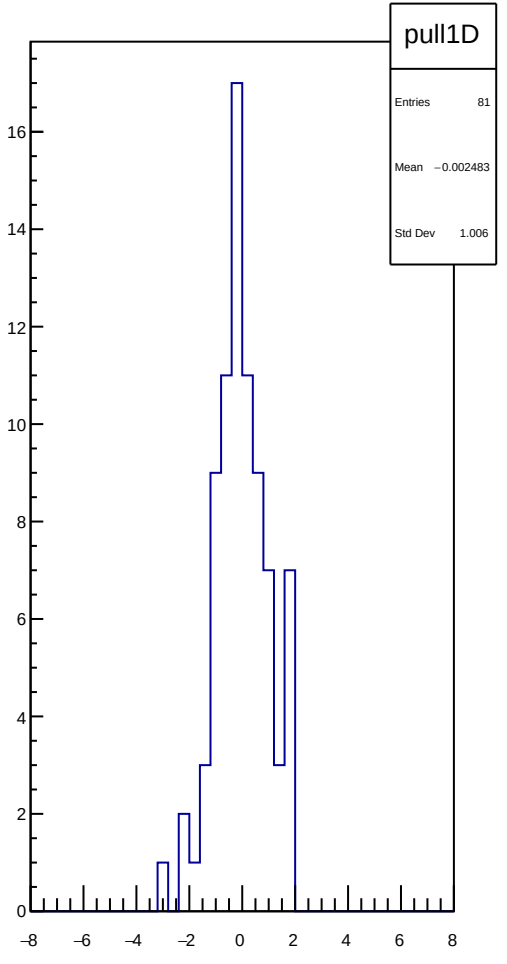

reg_asym_sam_26_dd_rms vs run
χ² / ndf 151.5 / 80
p0 198.1 ± 0.1593
206
204
202
200
198
196
194
192

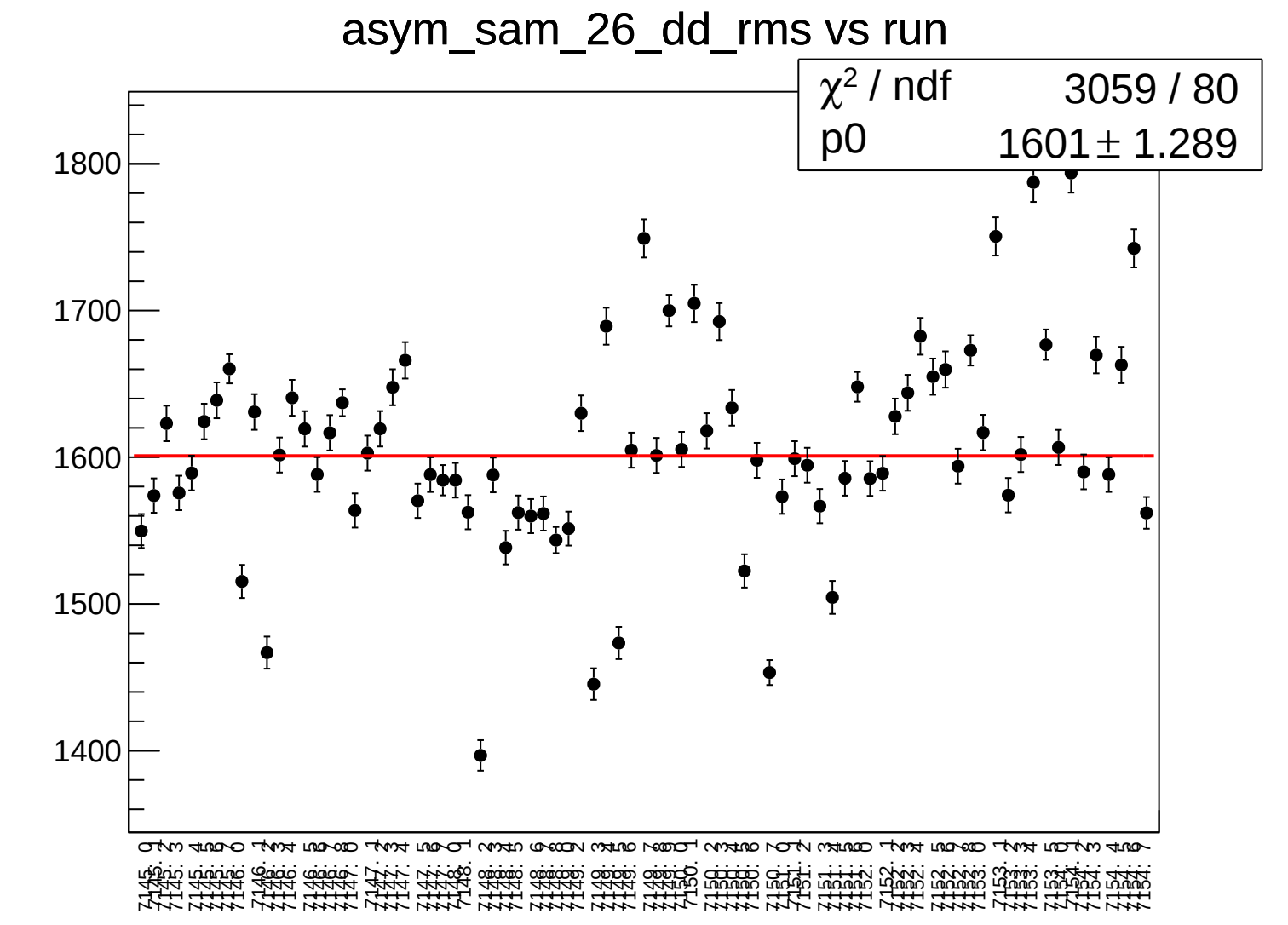

asym_sam_26_dd_correction_mean vs run
χ² / ndf 81.64 / 80
p0 −2485 ± 1809
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 1300
Std Dev 1273
3
2
1
0
−1
−2

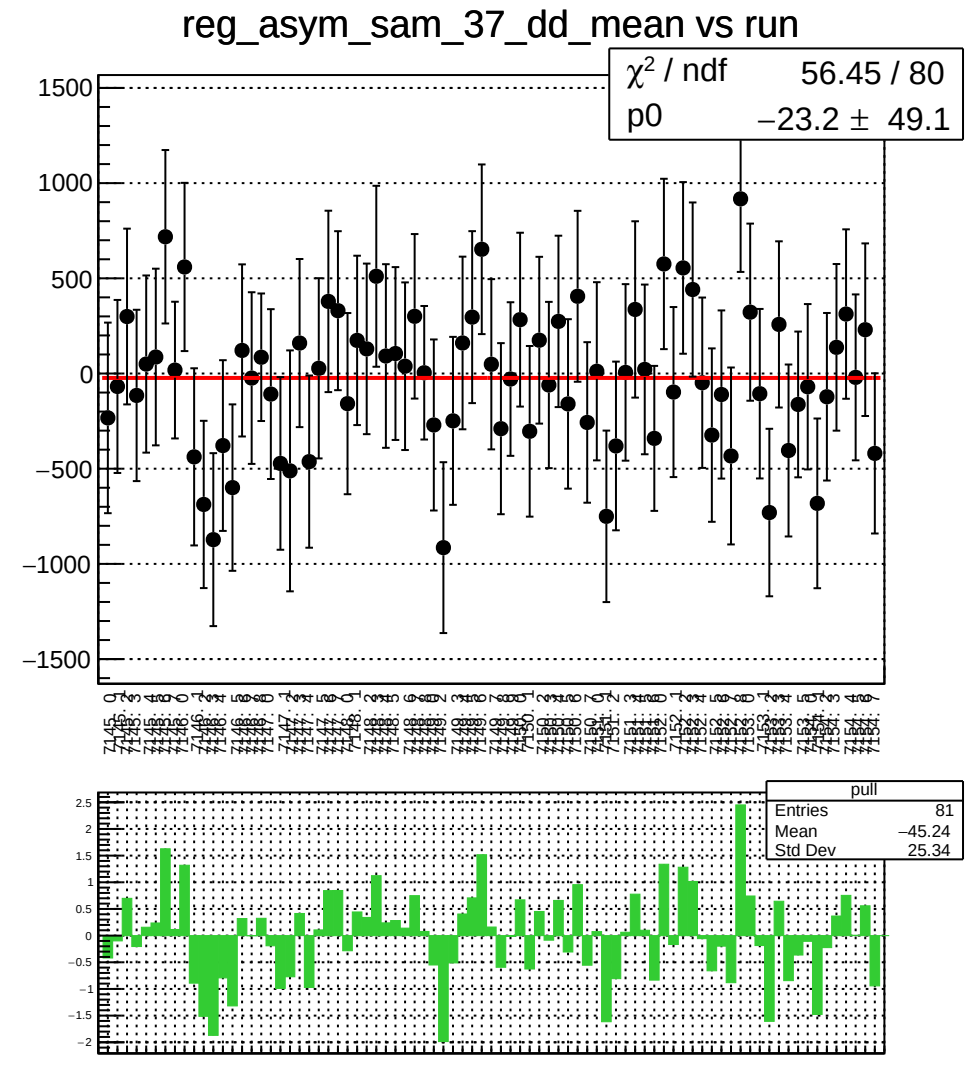

pull1D
Entries 81
Mean 0.002222
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

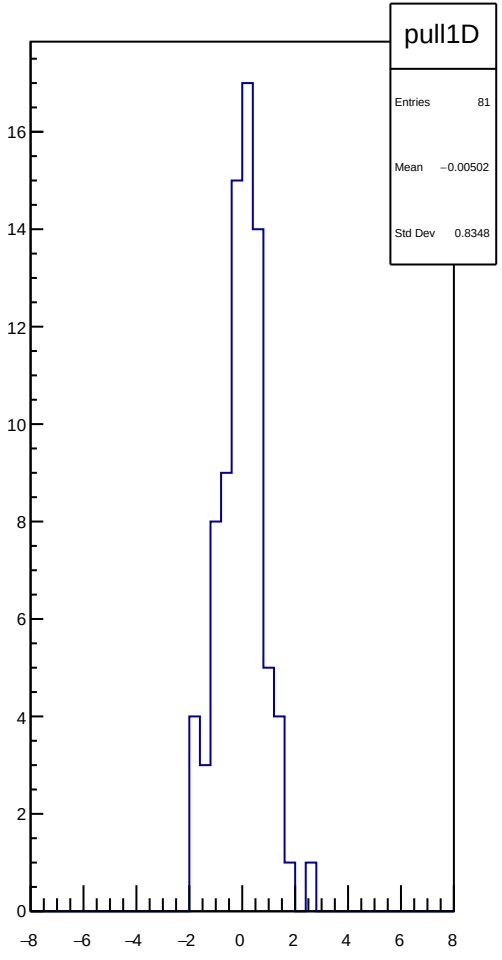

asym_sam_26_dd_correction_rms vs run
χ² / ndf 3156 / 80
p0 1588 ± 1.279
1800
1700
1600
1500
1400

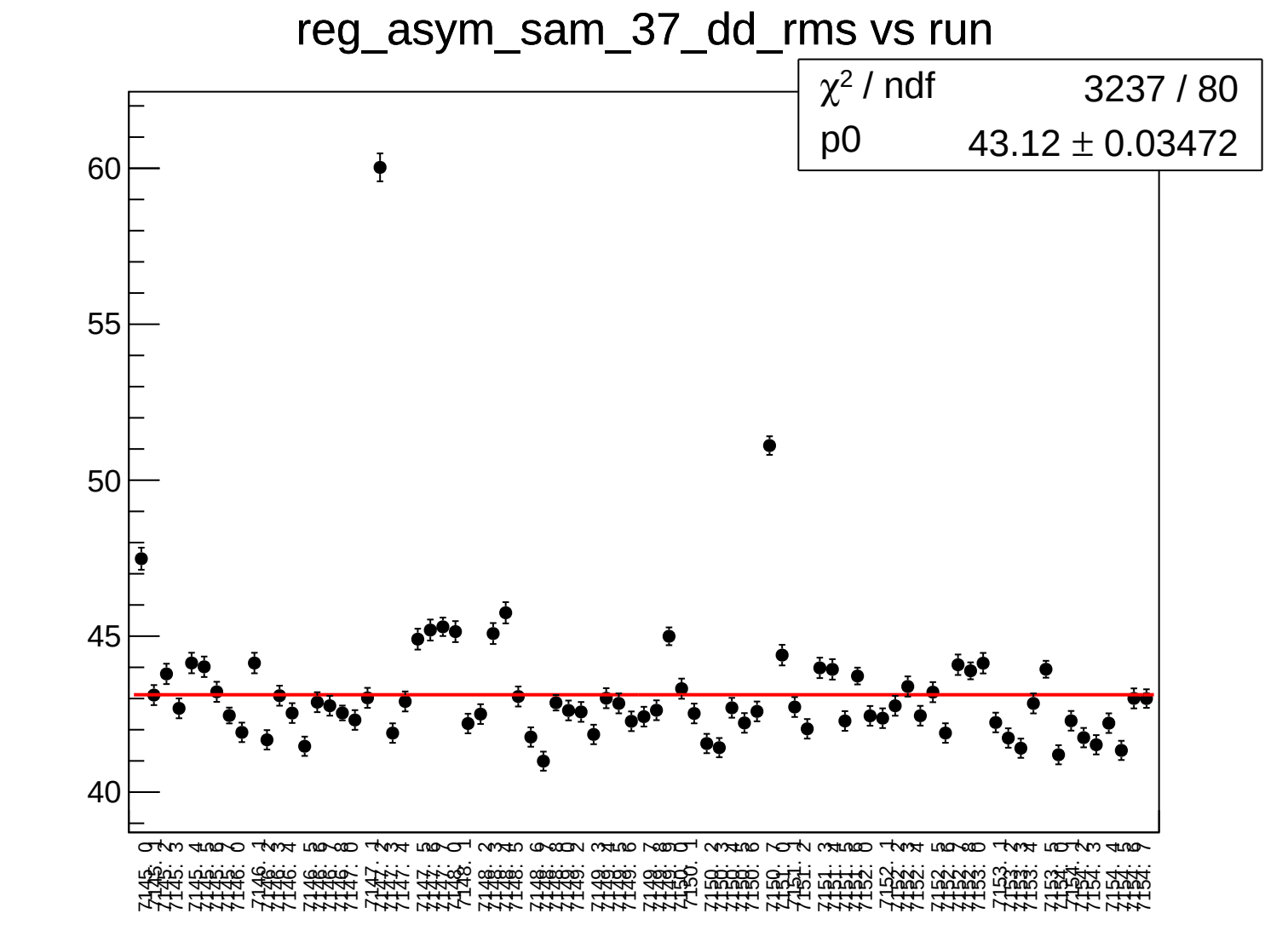

asym_sam_26_dd_mean vs run
χ² / ndf 81.96 / 80
p0 2173 ± 1823
pull
Entries 81
Mean 1053
Std Dev 1029

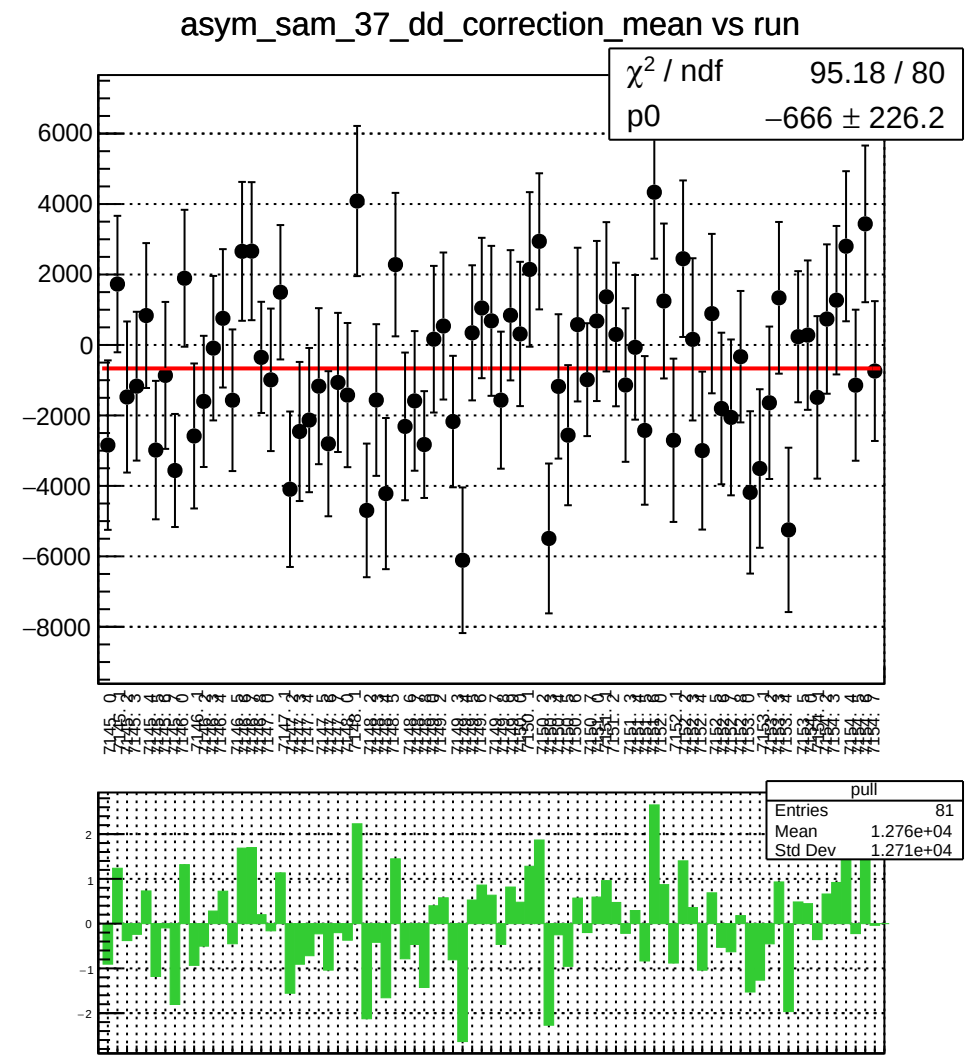

pull1D
Entries 81
Mean −0.002483
Std Dev 1.006

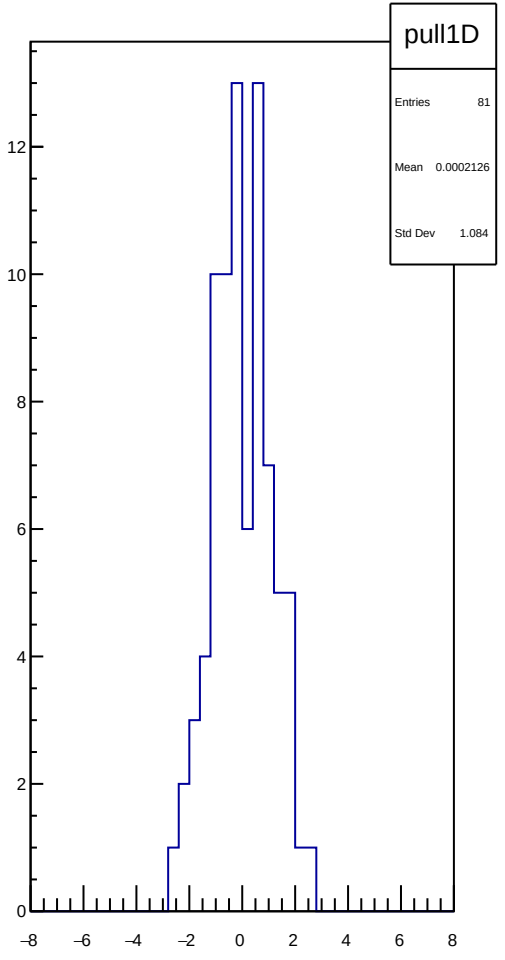

asym_sam_26_dd_rms vs run
χ² / ndf 3059 / 80
p0 1601 ± 1.289
1800
1700
1600
1500
1400

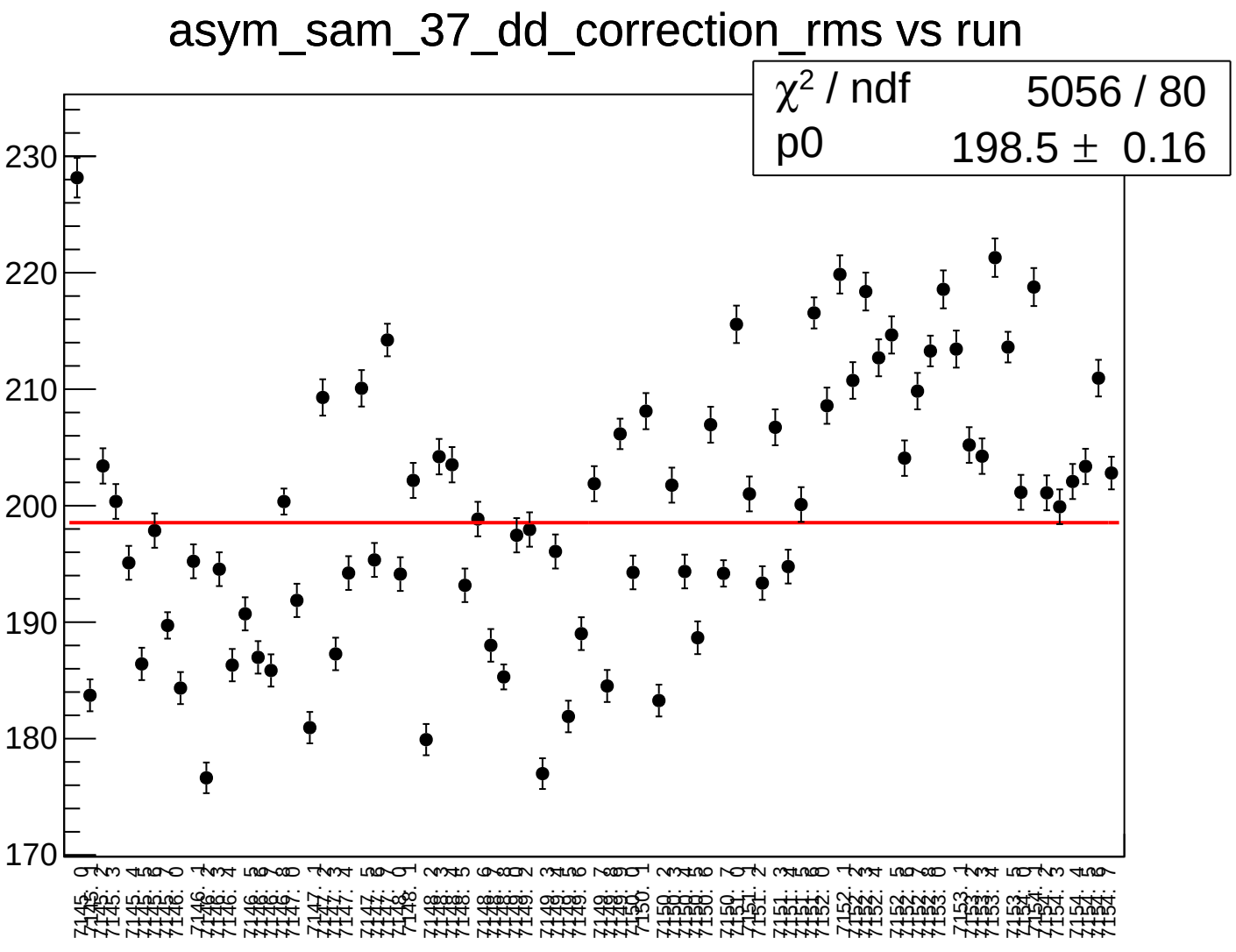

reg_asym_sam_37_dd_mean vs run
χ² / ndf 56.45 / 80
p0 −23.2 ± 49.1
pull
Entries 81
Mean −45.24
Std Dev 25.34

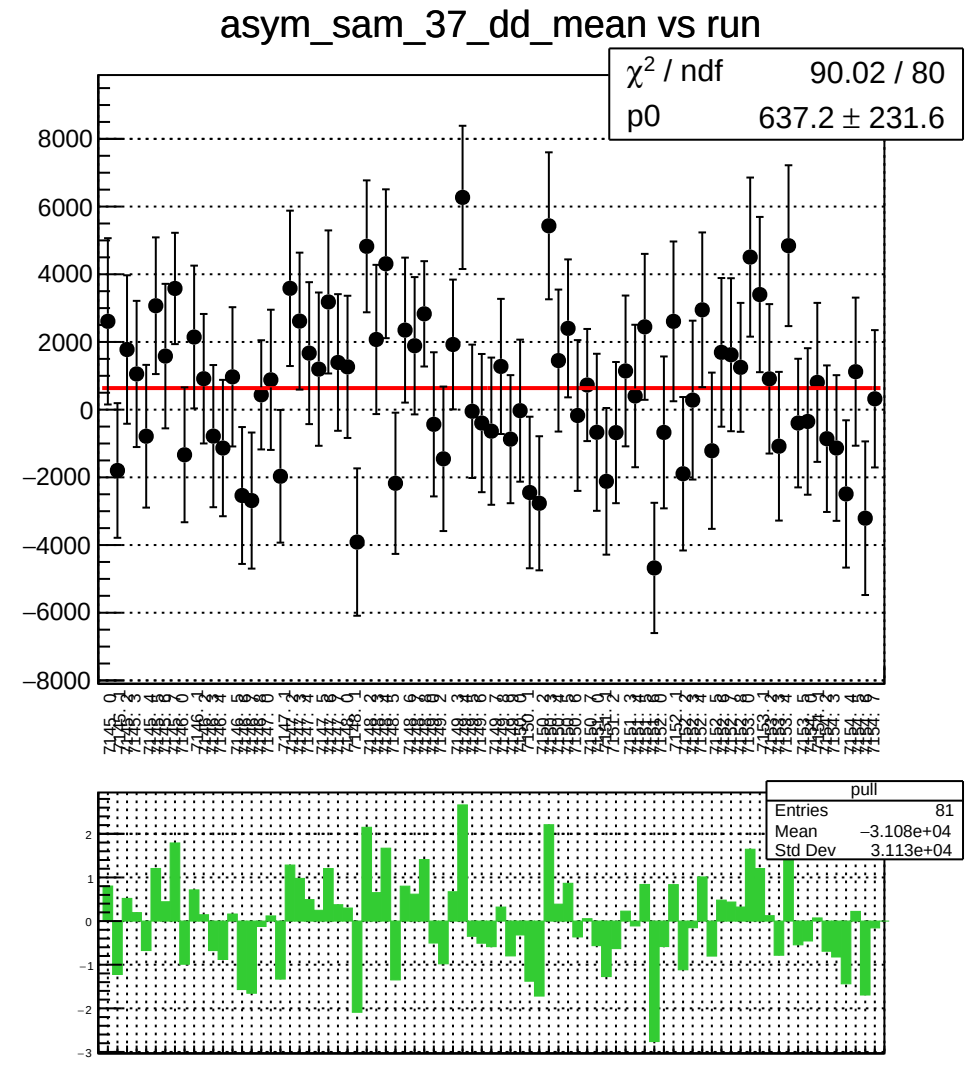

pull1D
Entries 81
Mean −0.00502
Std Dev 0.8348

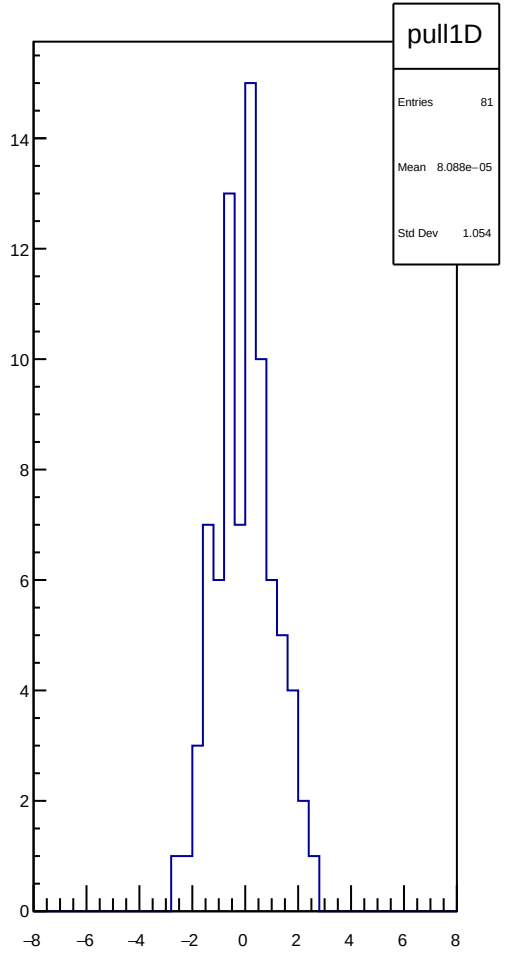

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 3237 / 80
p0 43.12 ± 0.03472
60
55
50
45
40

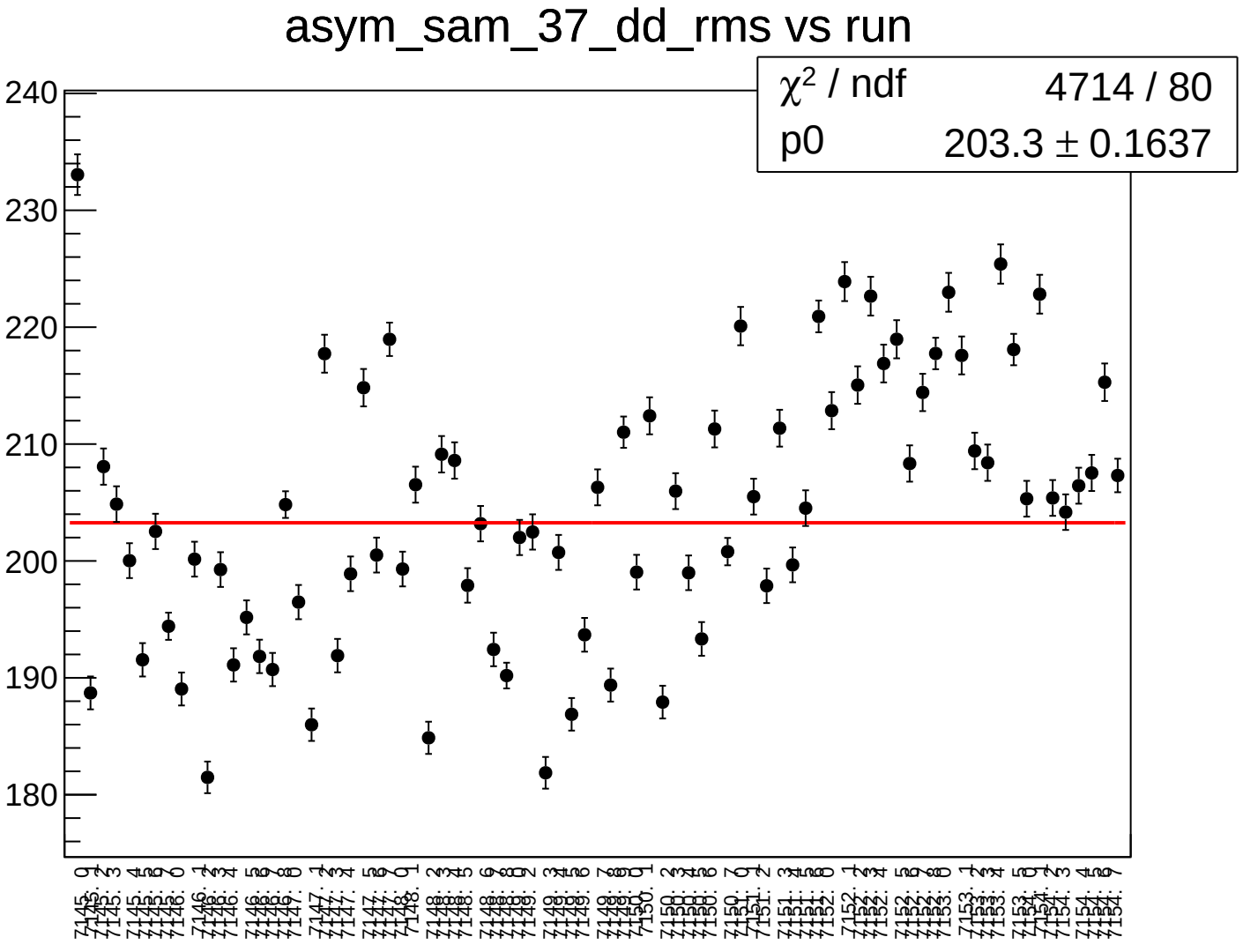

asym_sam_37_dd_correction_mean vs run
χ² / ndf 95.18 / 80
p0 −666 ± 226.2
pull
Entries 81
Mean 1.276e+04
Std Dev 1.271e+04

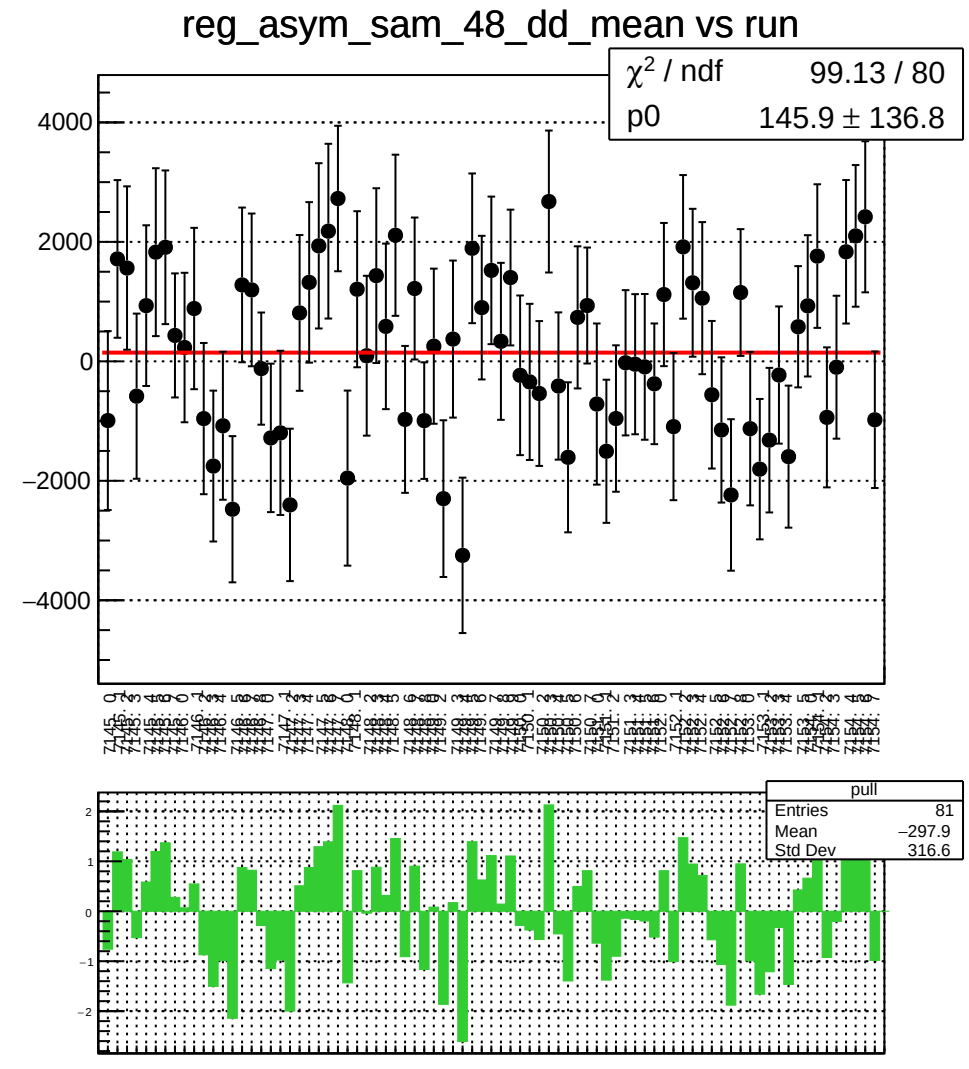

pull1D
Entries 81
Mean 0.0002126
Std Dev 1.084

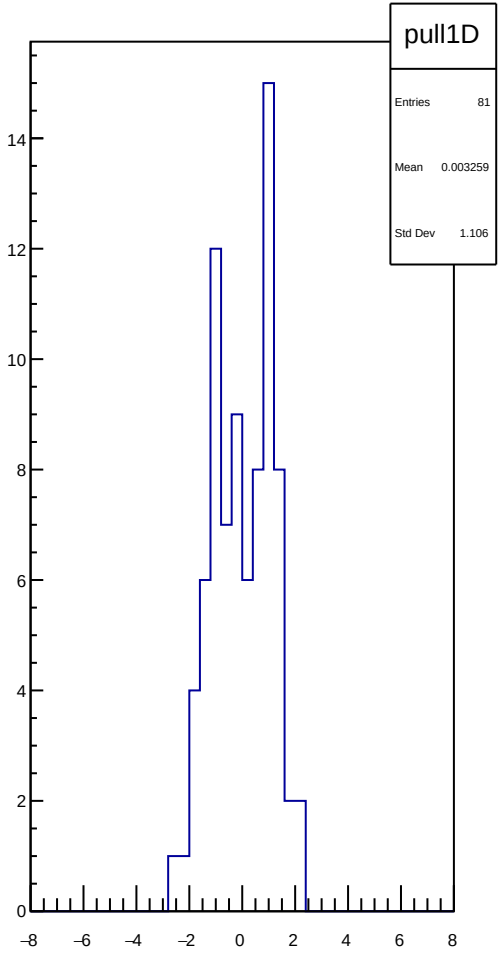

asym_sam_37_dd_correction_rms vs run
χ^2 / ndf 5056 / 80
p0 198.5 ± 0.16
230
220
210
200
190
180
170

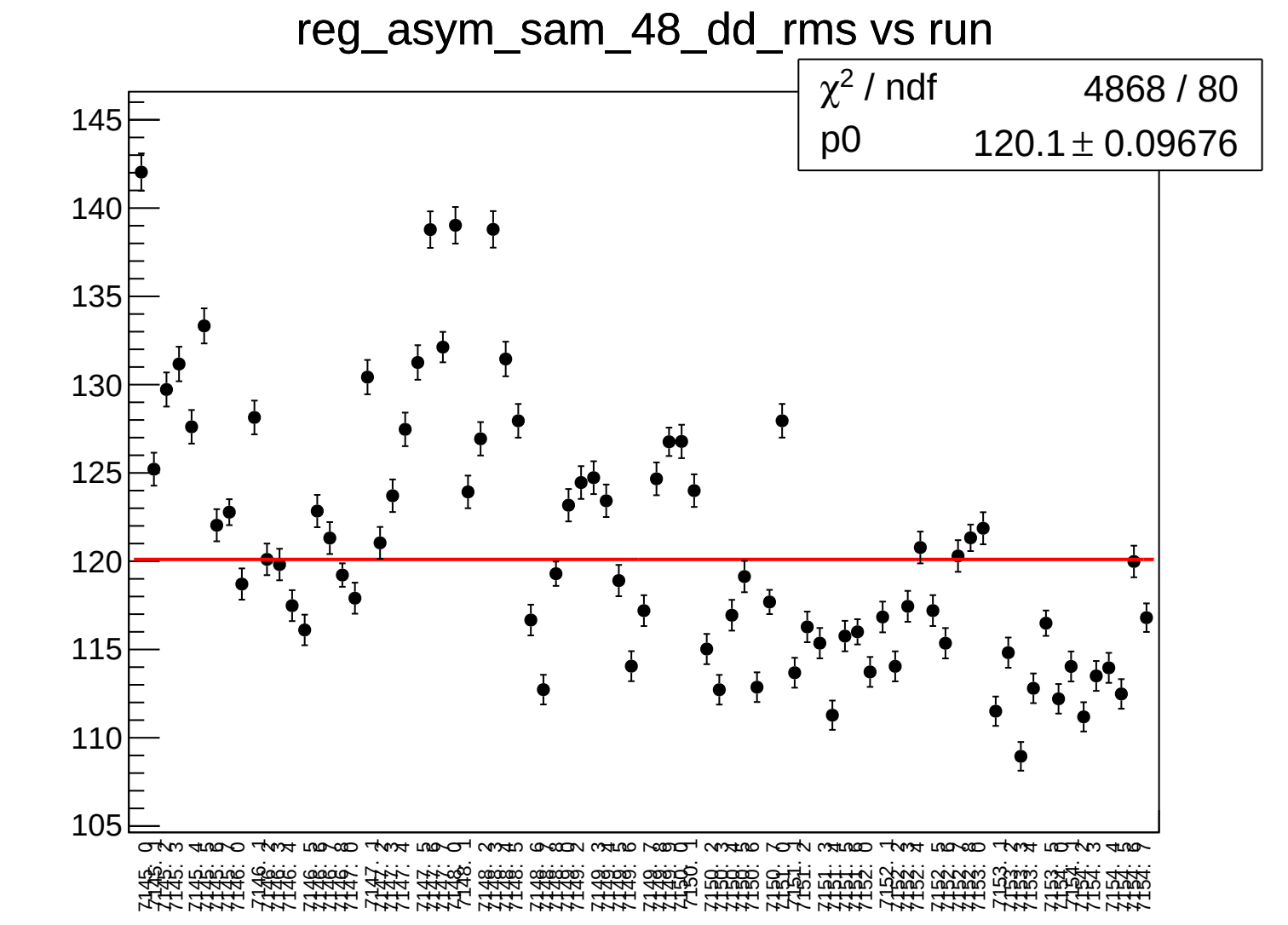

asym_sam_37_dd_mean vs run
χ² / ndf 90.02 / 80
p0 637.2 ± 231.6
pull
Entries 81
Mean −3.108e+04
Std Dev 3.113e+04

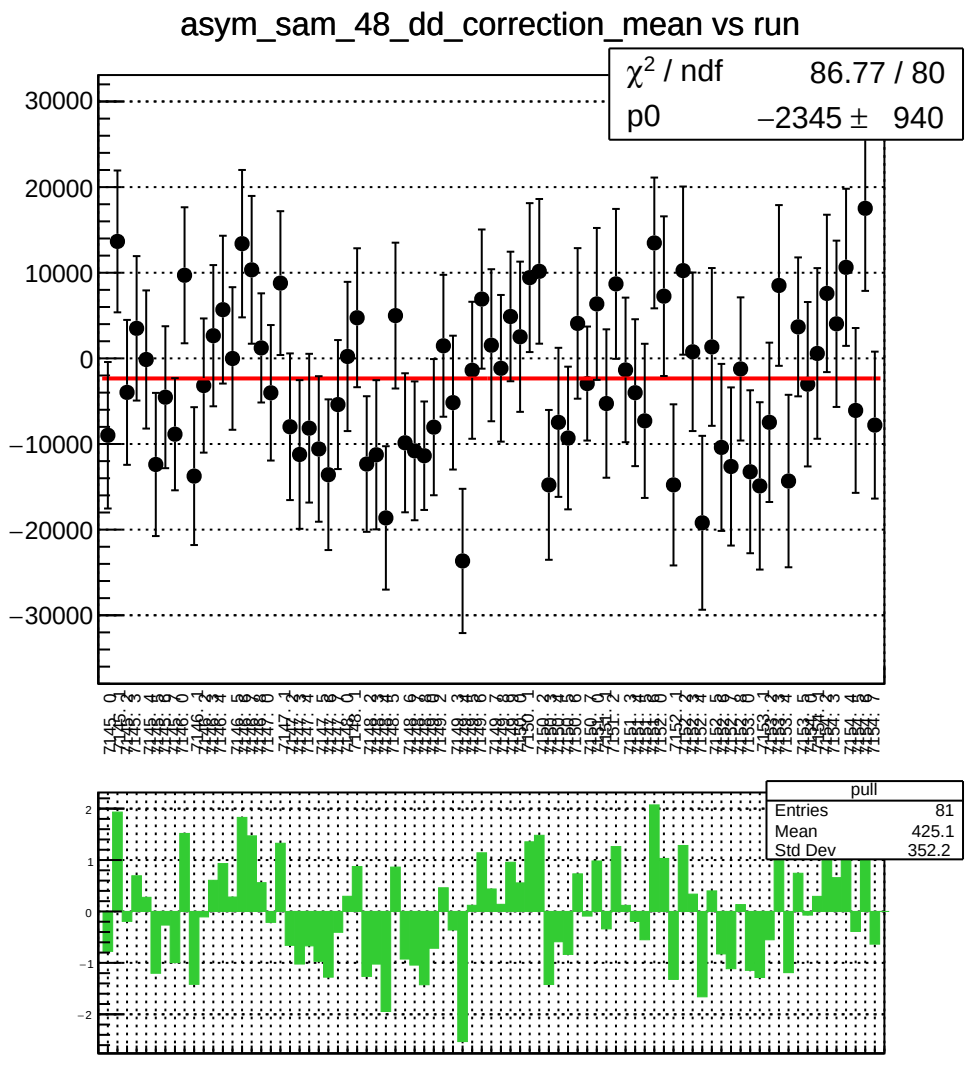

pull1D
Entries 81
Mean 8.088e−05
Std Dev 1.054

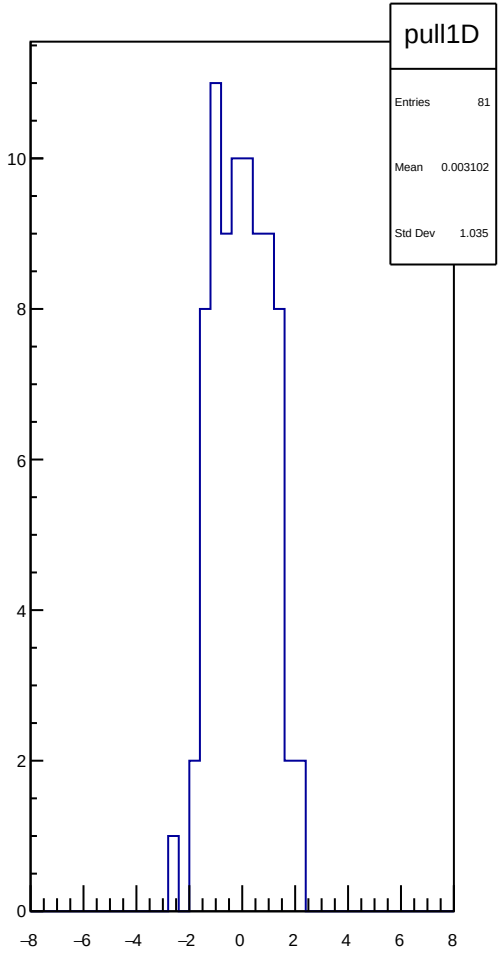

asym_sam_37_dd_rms vs run
χ² / ndf 4714 / 80
p0 203.3 ± 0.1637
240
230
220
210
200
190
180

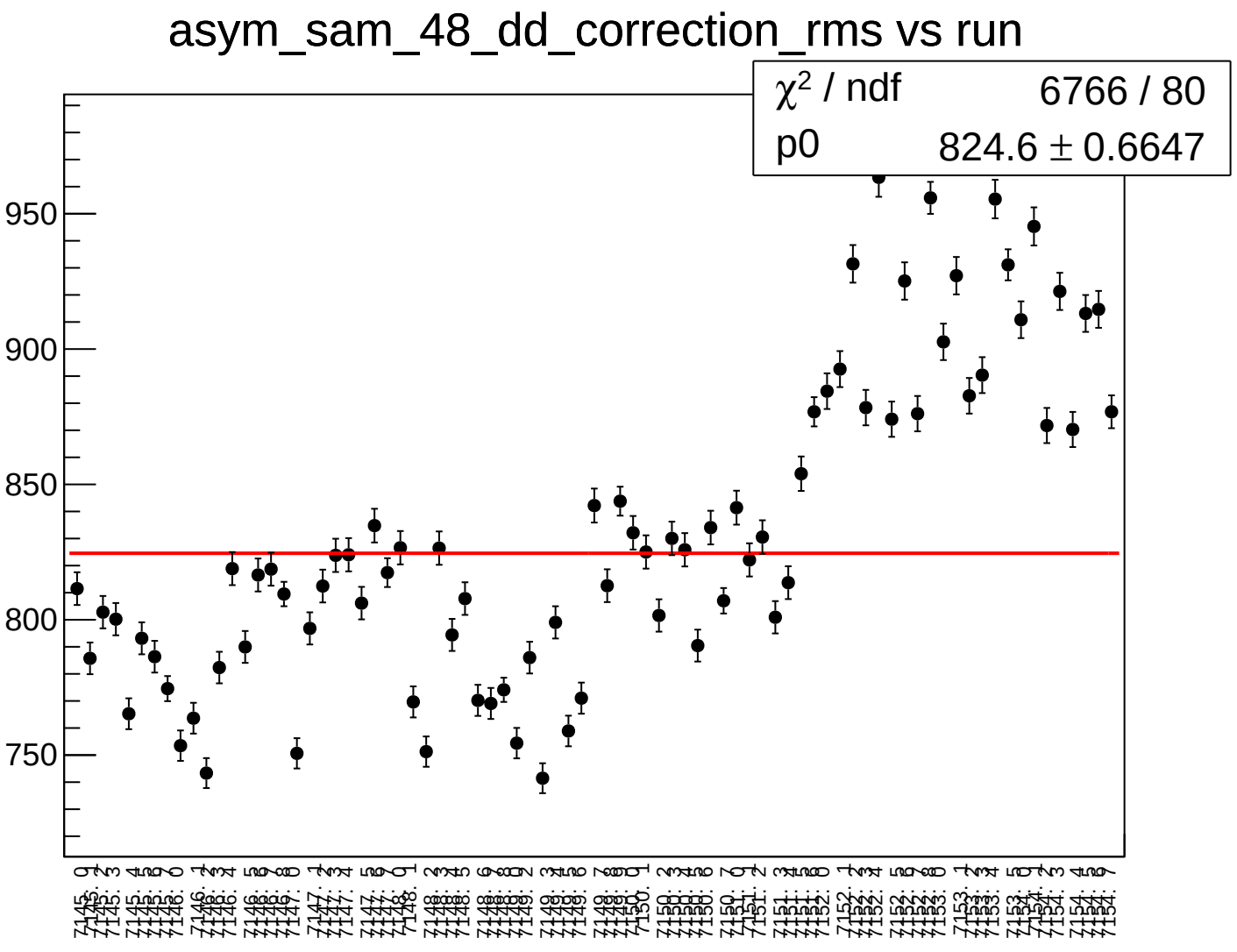

reg_asym_sam_48_dd_mean vs run
χ² / ndf 99.13 / 80
p0 145.9 ± 136.8
pull
Entries 81
Mean −297.9
Std Dev 316.6

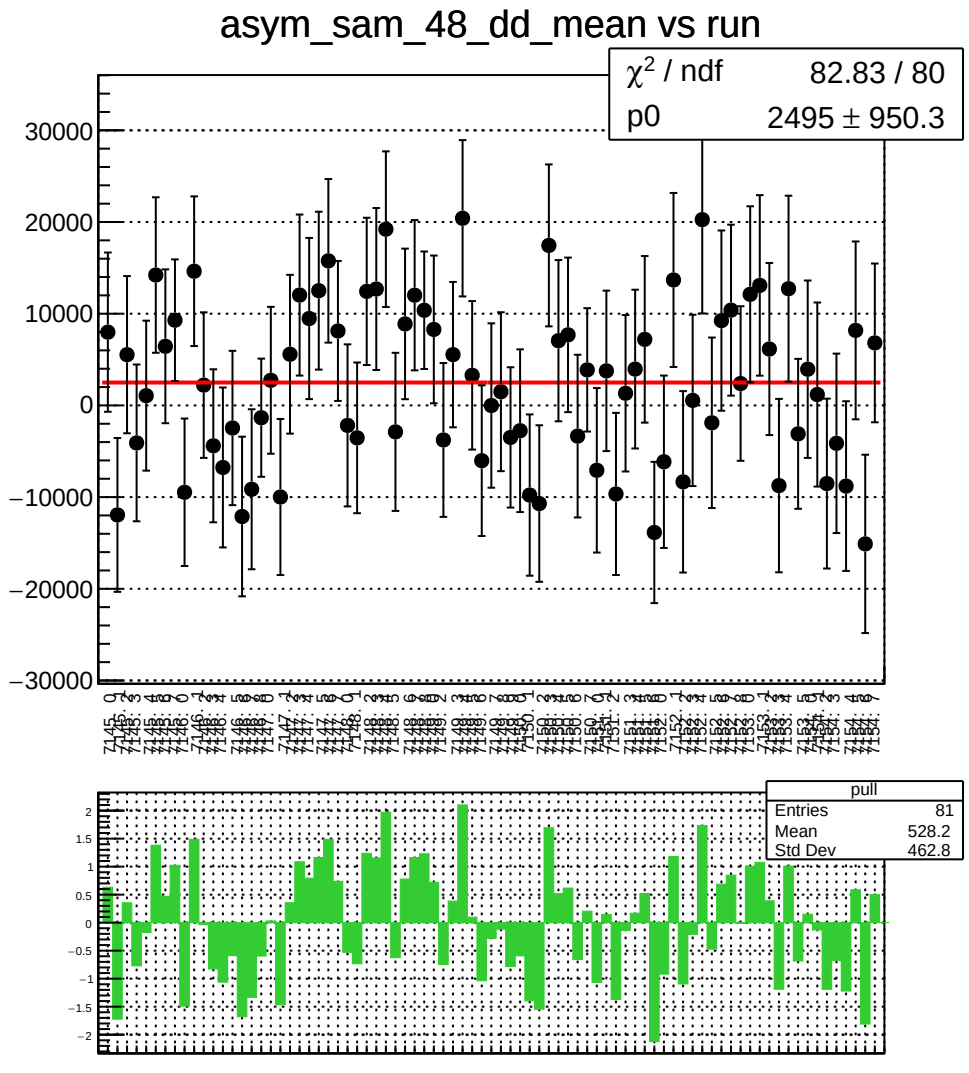

pull1D
Entries 81
Mean 0.003259
Std Dev 1.106

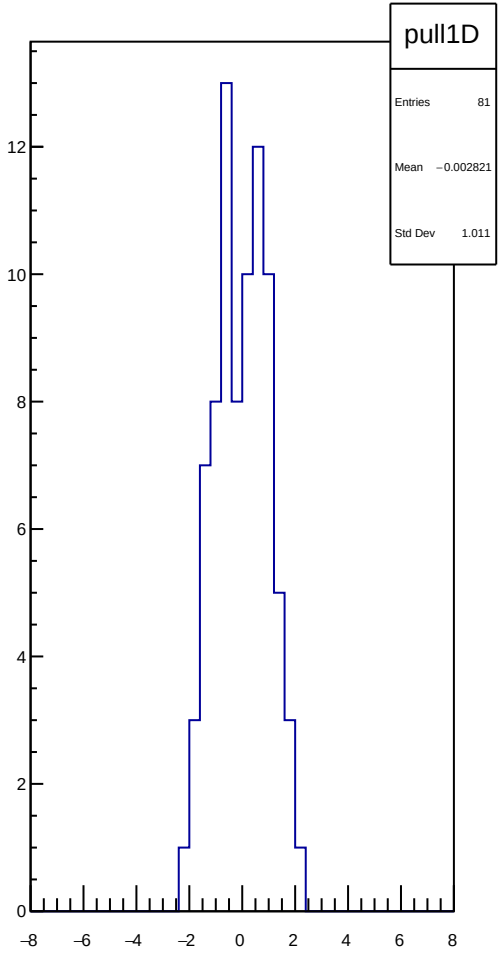

reg_asym_sam_48_dd_rms vs run
χ² / ndf 4868 / 80
p0 120.1 ± 0.09676
145
140
135
130
125
120
115
110
105

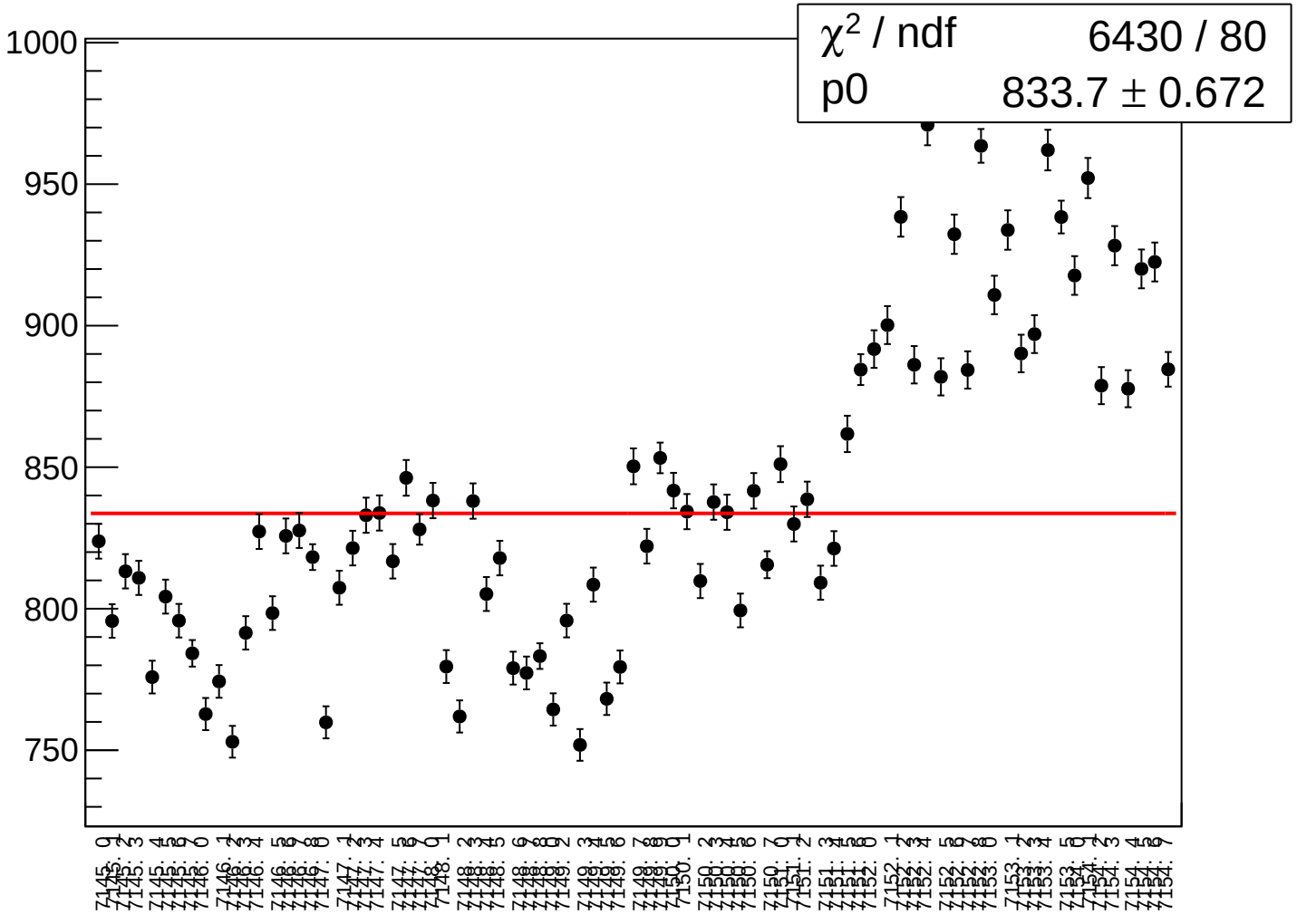

asym_sam_48_dd_correction_mean vs run
χ² / ndf 86.77 / 80
p0 −2345 ± 940
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 425.1
Std Dev 352.2
2
1
0
−1
−2

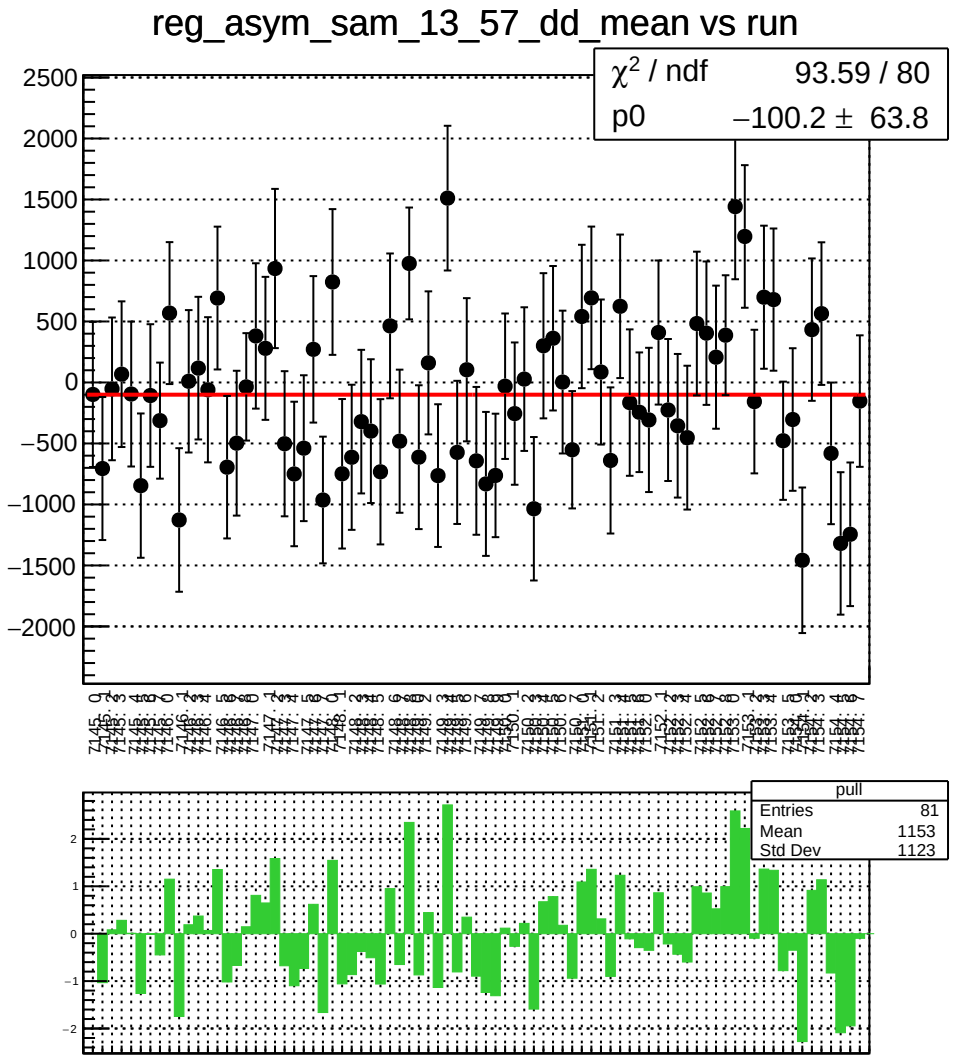

pull1D
Entries 81
Mean 0.003102
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

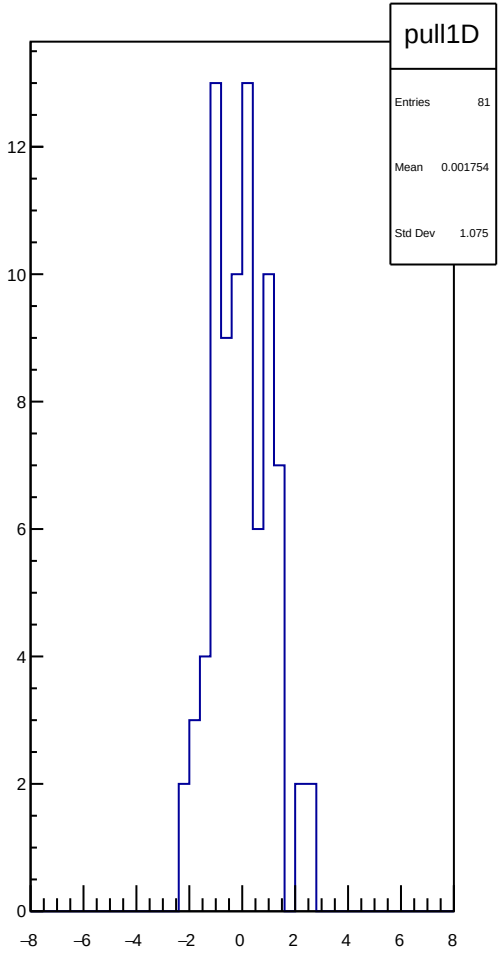

asym_sam_48_dd_correction_rms vs run
χ² / ndf 6766 / 80
p0 824.6 ± 0.6647
950
900
850
800
750

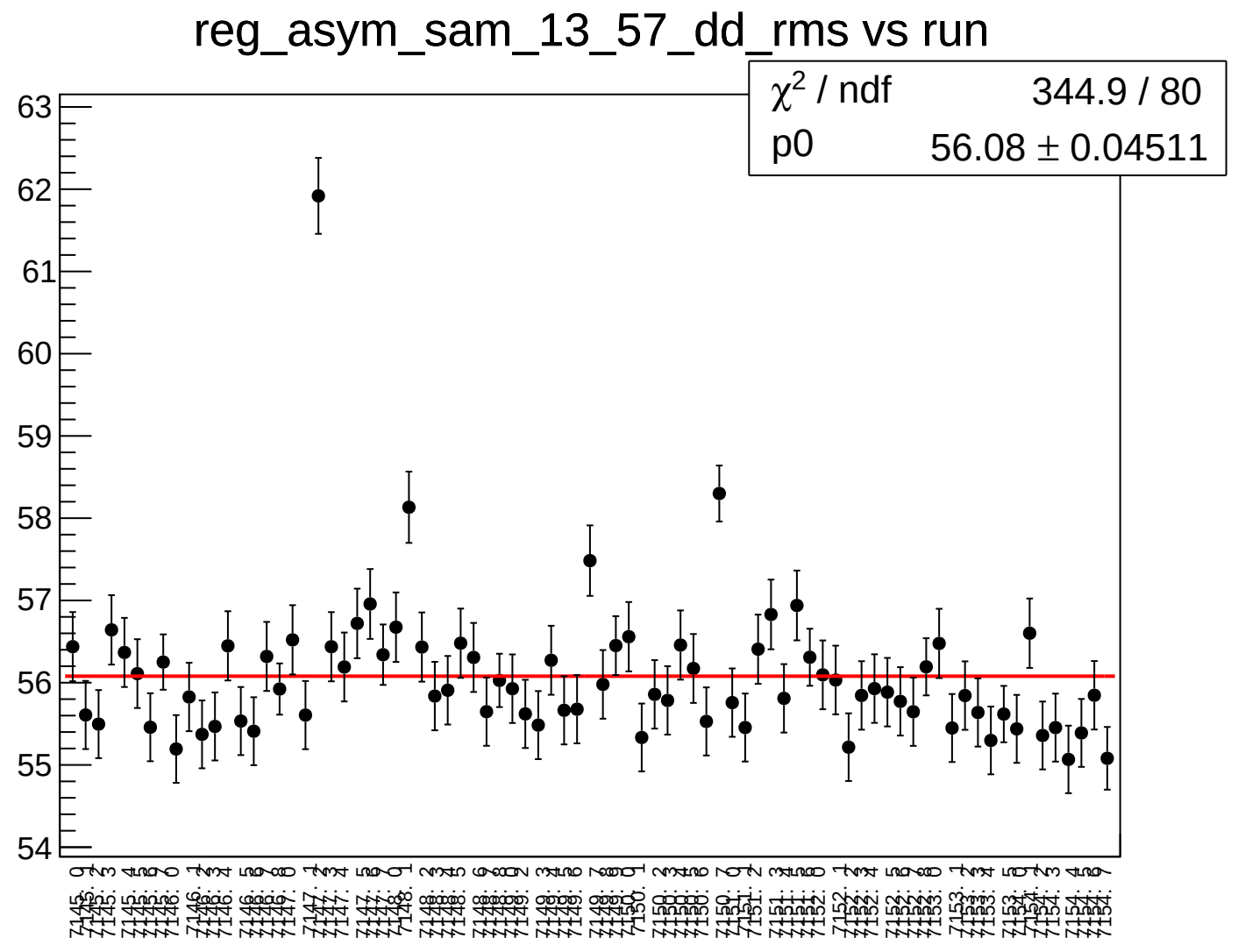

asym_sam_48_dd_mean vs run
χ² / ndf 82.83 / 80
p0 2495 ± 950.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 528.2
Std Dev 462.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

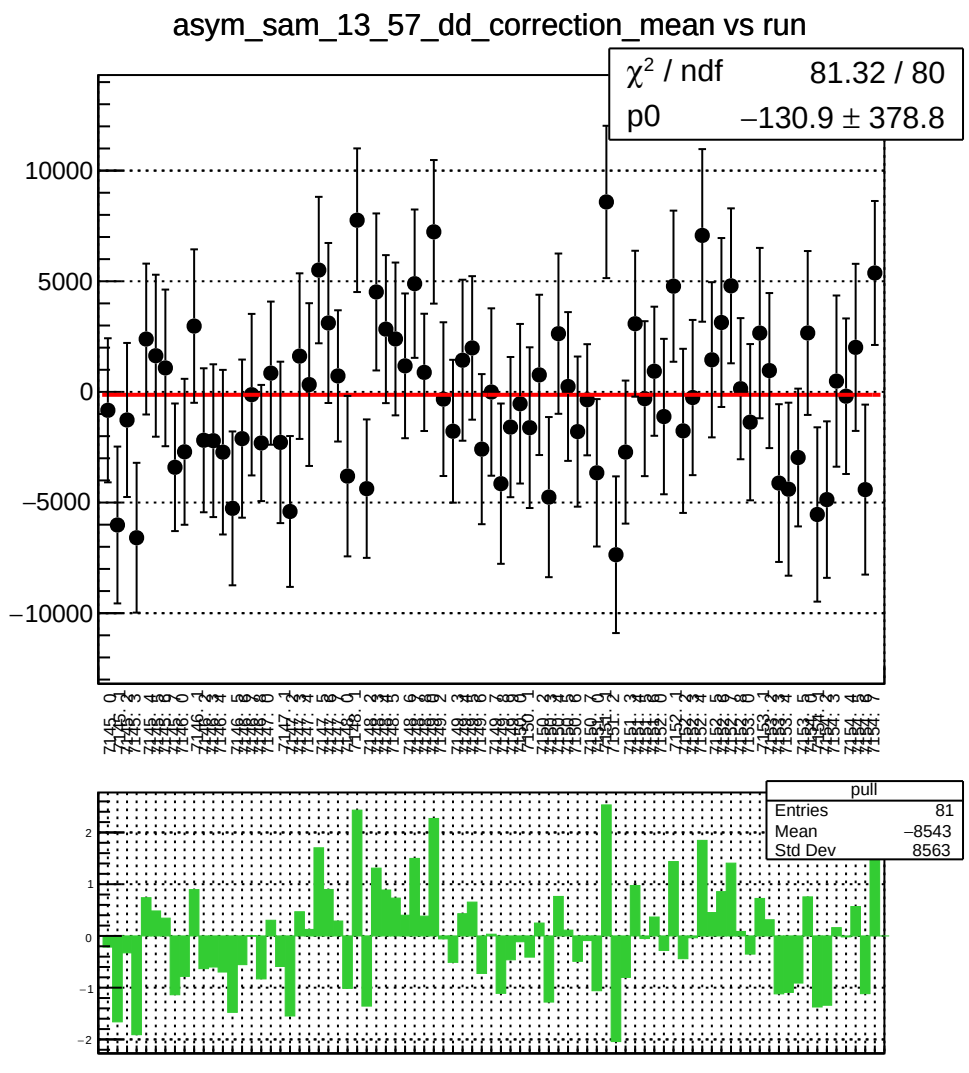

pull1D
Entries 81
Mean −0.002821
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

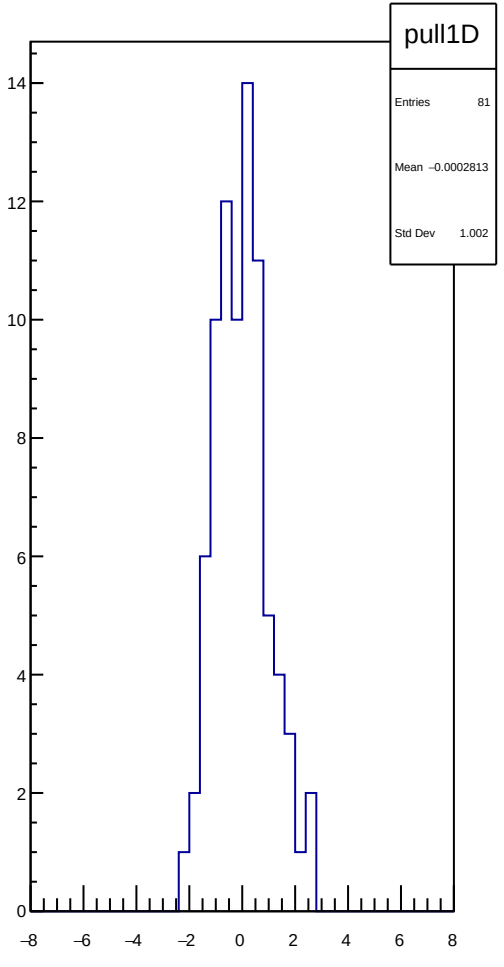

asym_sam_48_dd_rms vs run
χ² / ndf 6430 / 80
p0 833.7 ± 0.672
1000
950
900
850
800
750

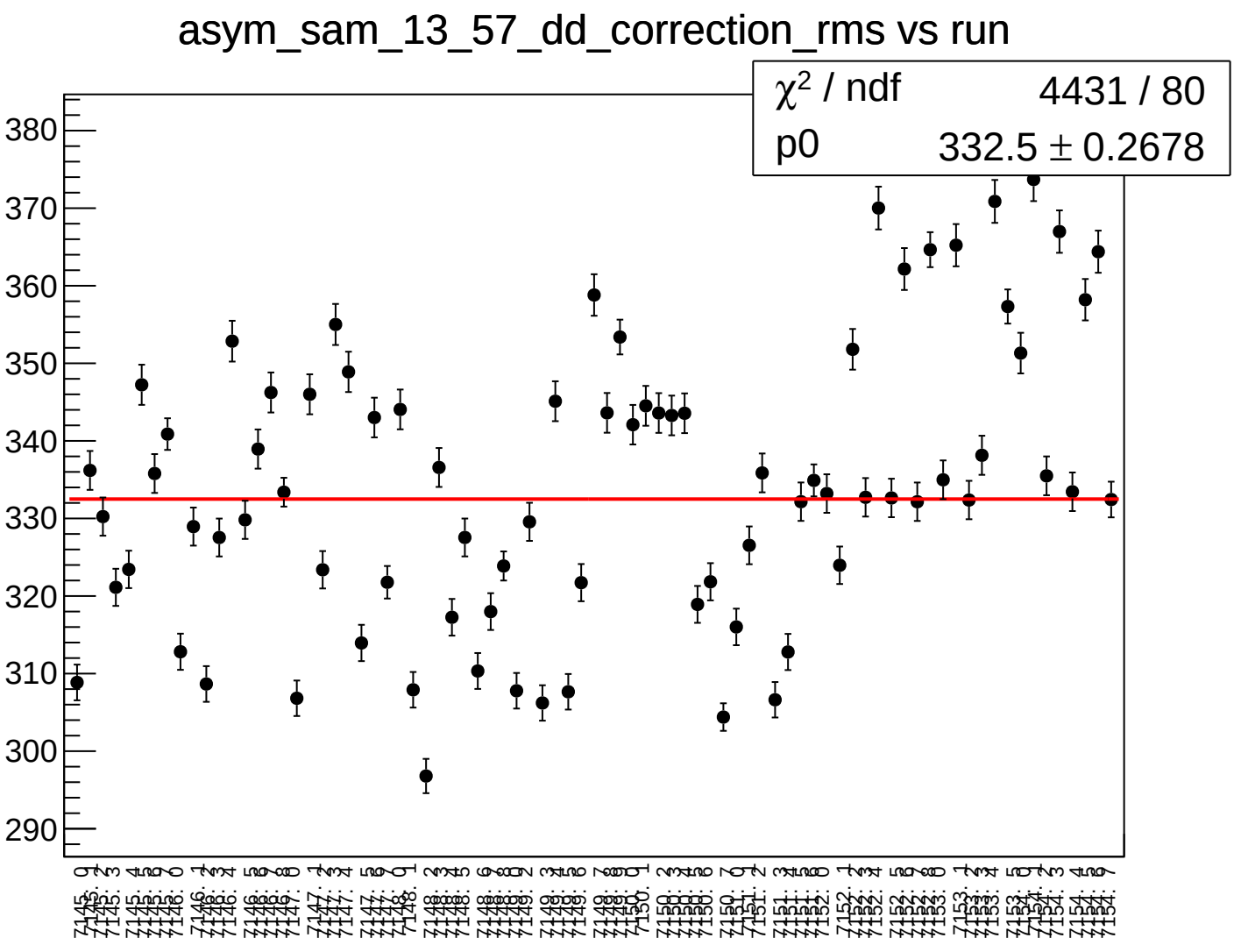

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 93.59 / 80
p0 −100.2 ± 63.8
pull
Entries 81
Mean 1153
Std Dev 1123

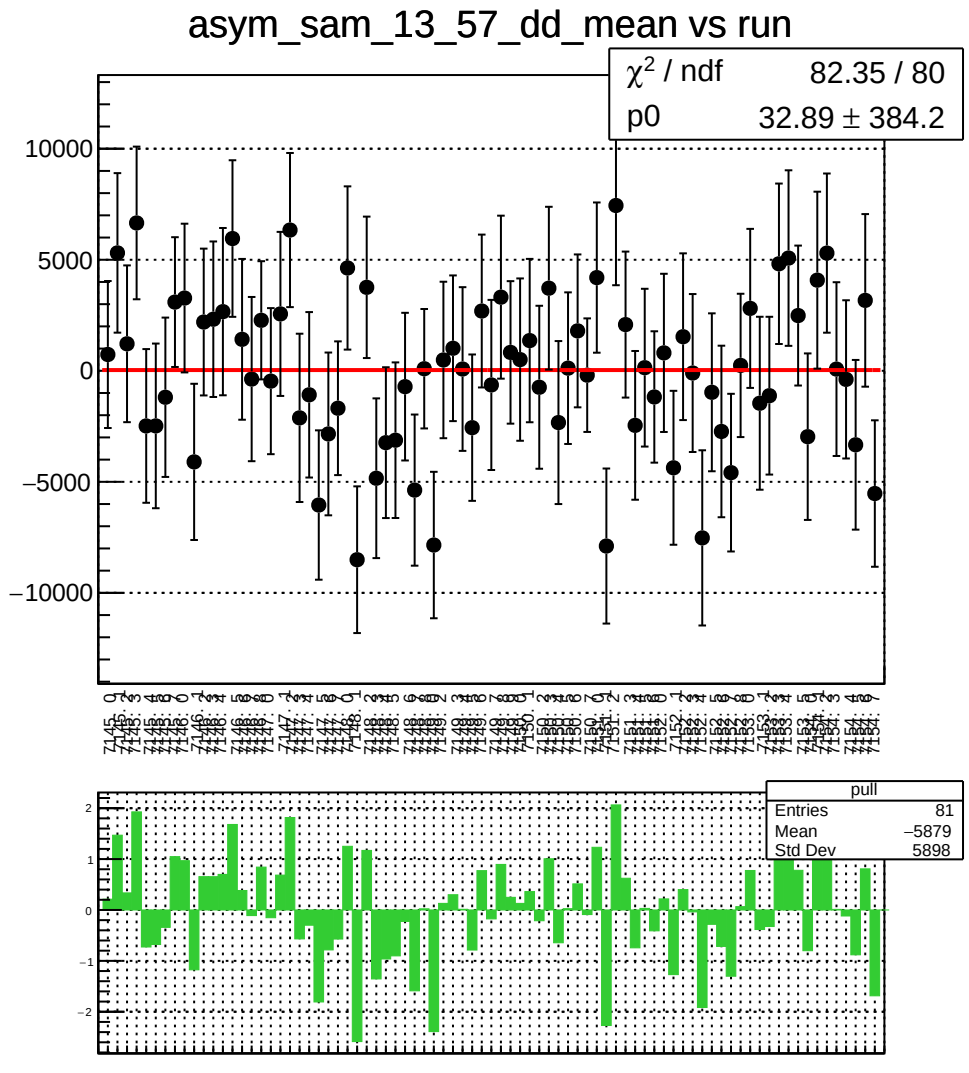

pull1D
Entries 81
Mean 0.001754
Std Dev 1.075

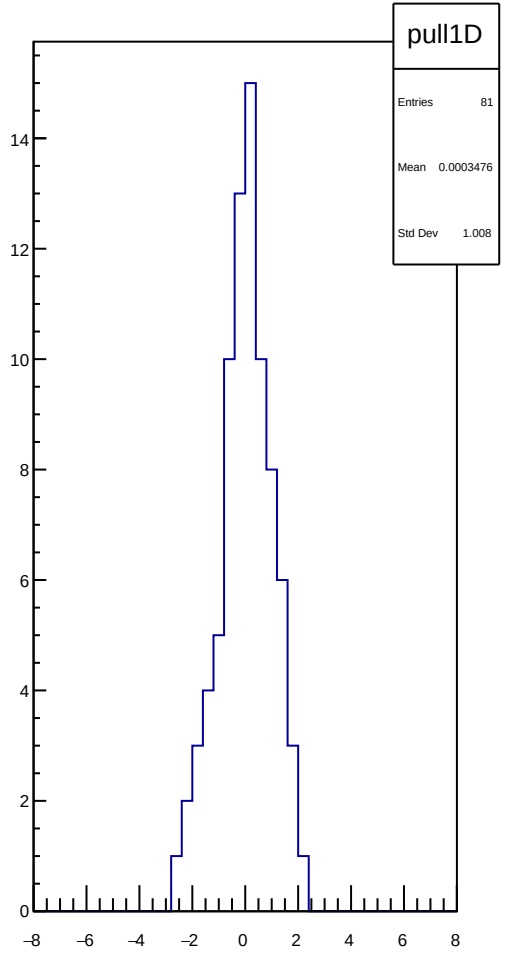

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 344.9 / 80
p0 56.08 ± 0.04511
63
62
61
60
59
58
57
56
55
54

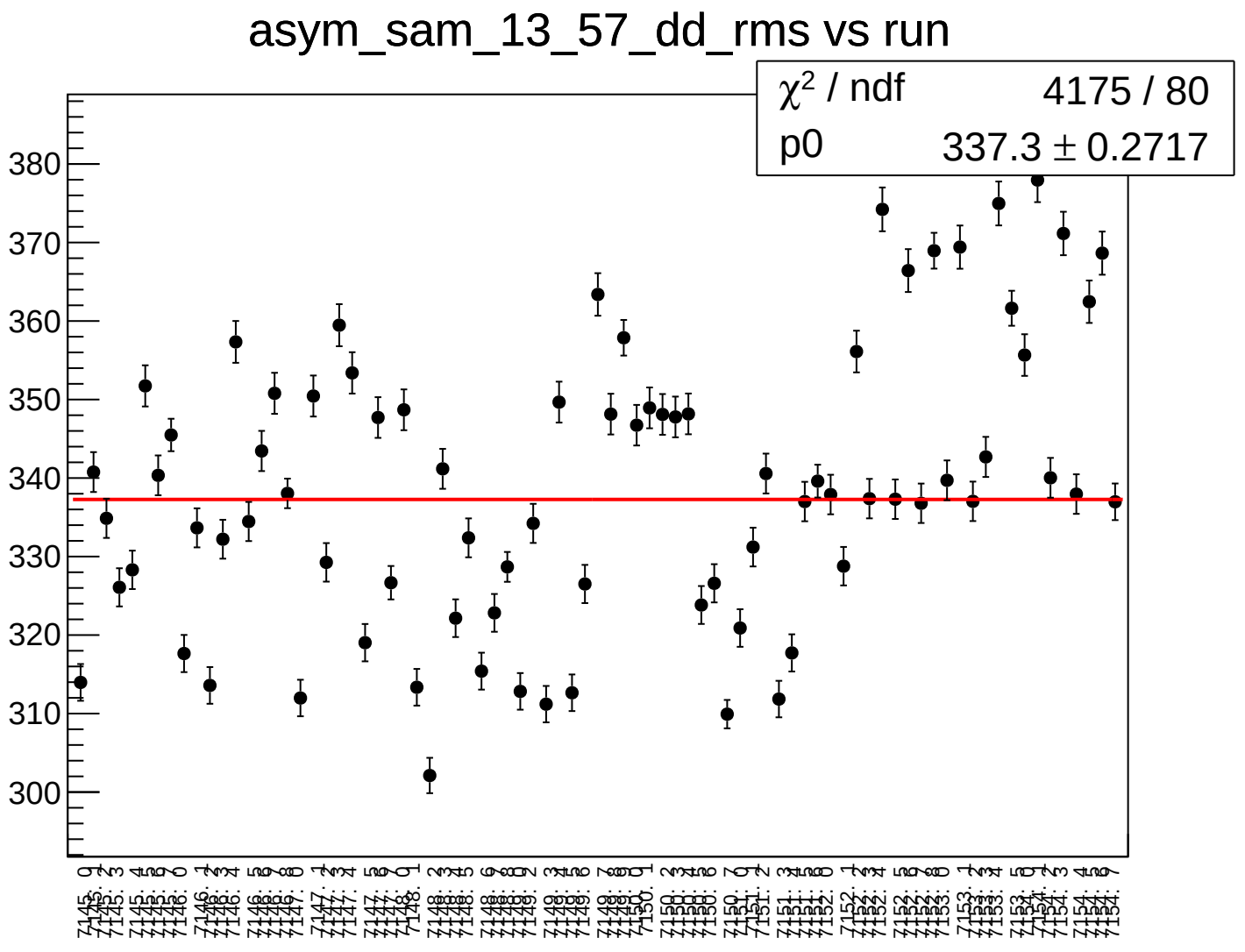

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 81.32 / 80
p0 −130.9 ± 378.8
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −8543
Std Dev 8563
2
1
0
−1
−2

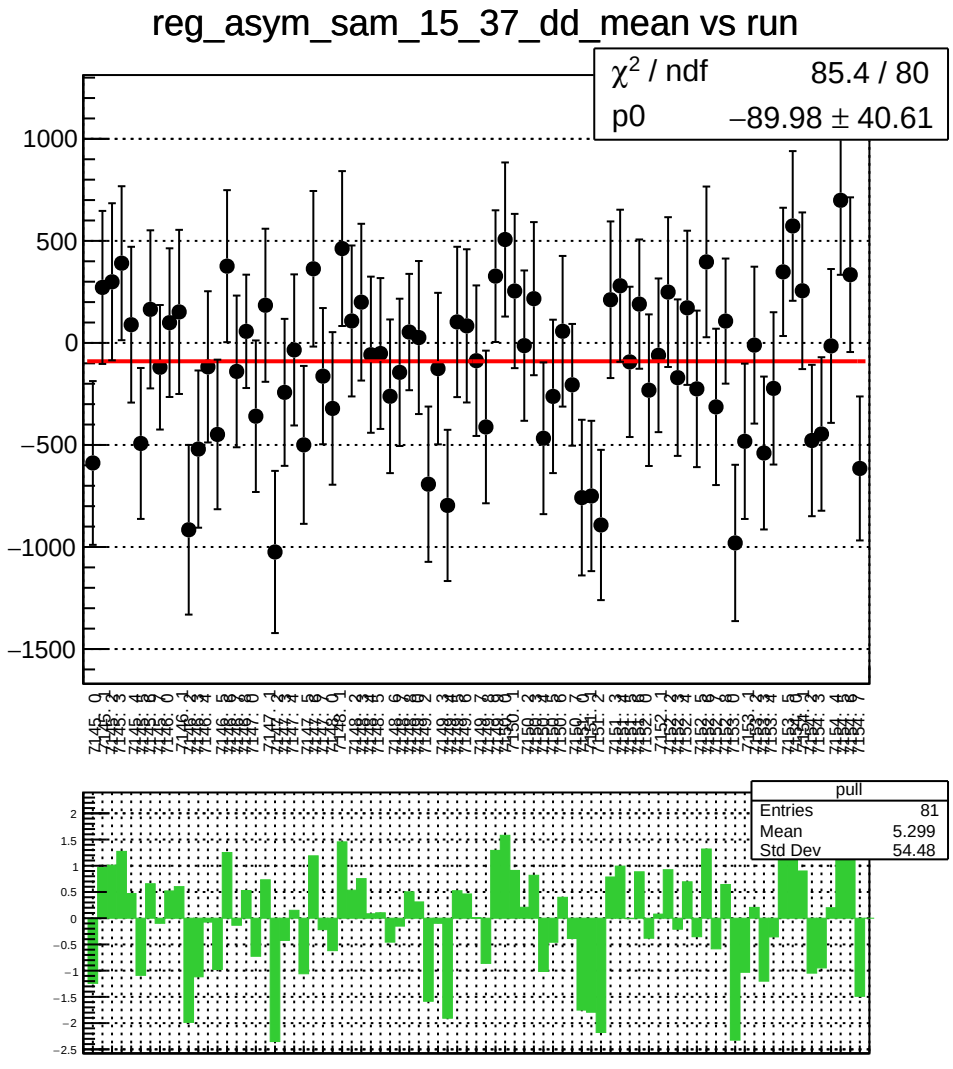

pull1D
Entries 81
Mean −0.0002813
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

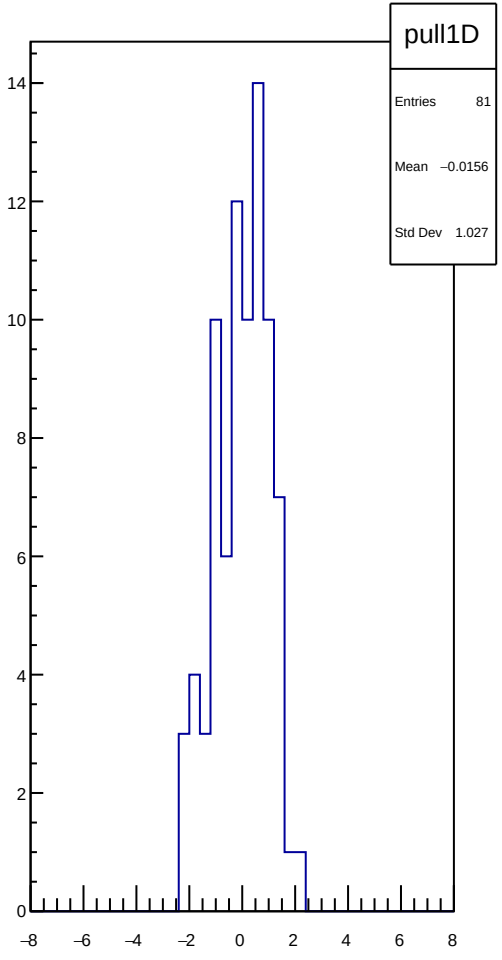

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 4431 / 80
p0 332.5 ± 0.2678
380
370
360
350
340
330
320
310
300
290

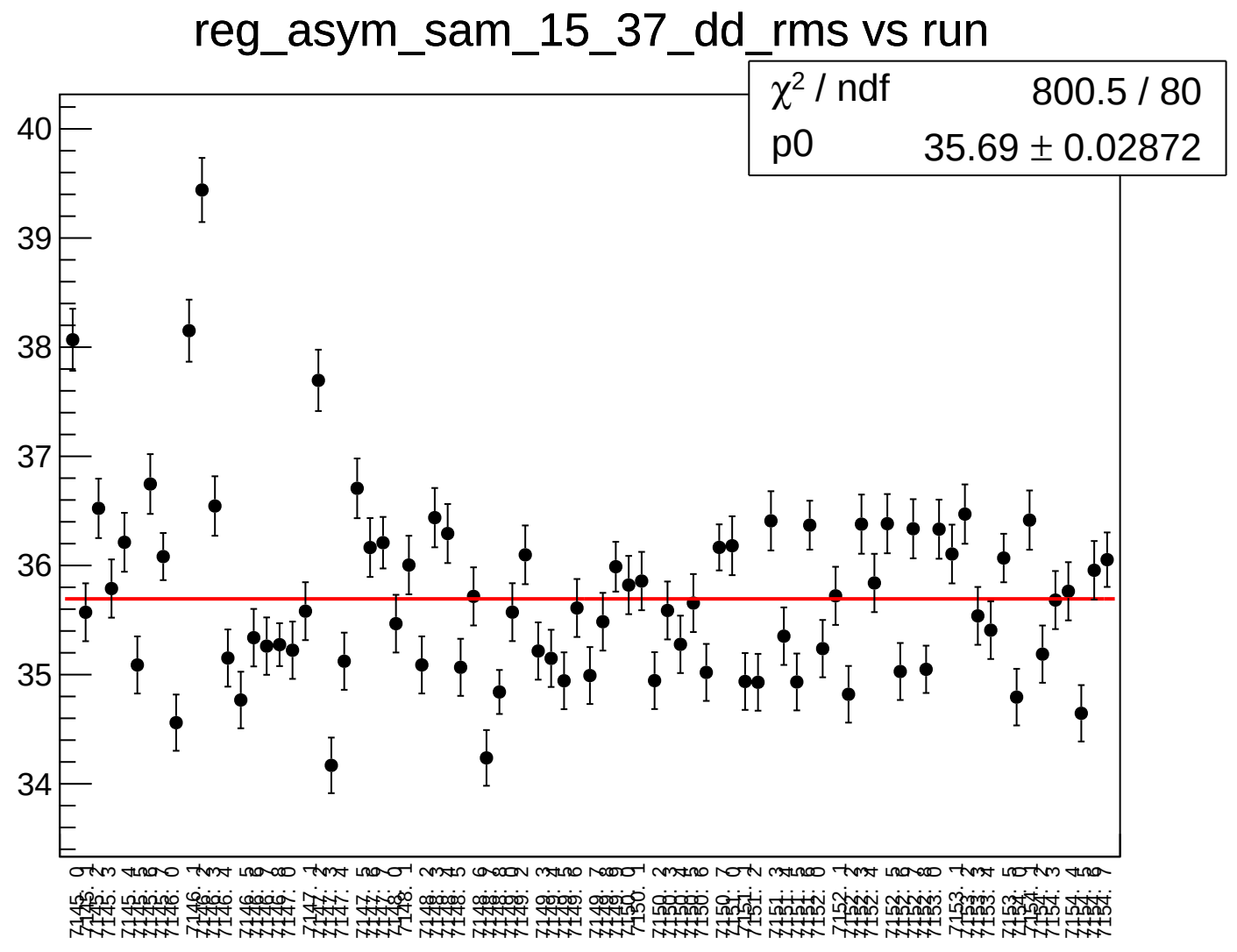

asym_sam_13_57_dd_mean vs run
χ² / ndf 82.35 / 80
p0 32.89 ± 384.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −5879
Std Dev 5898
2
1
0
−1
−2

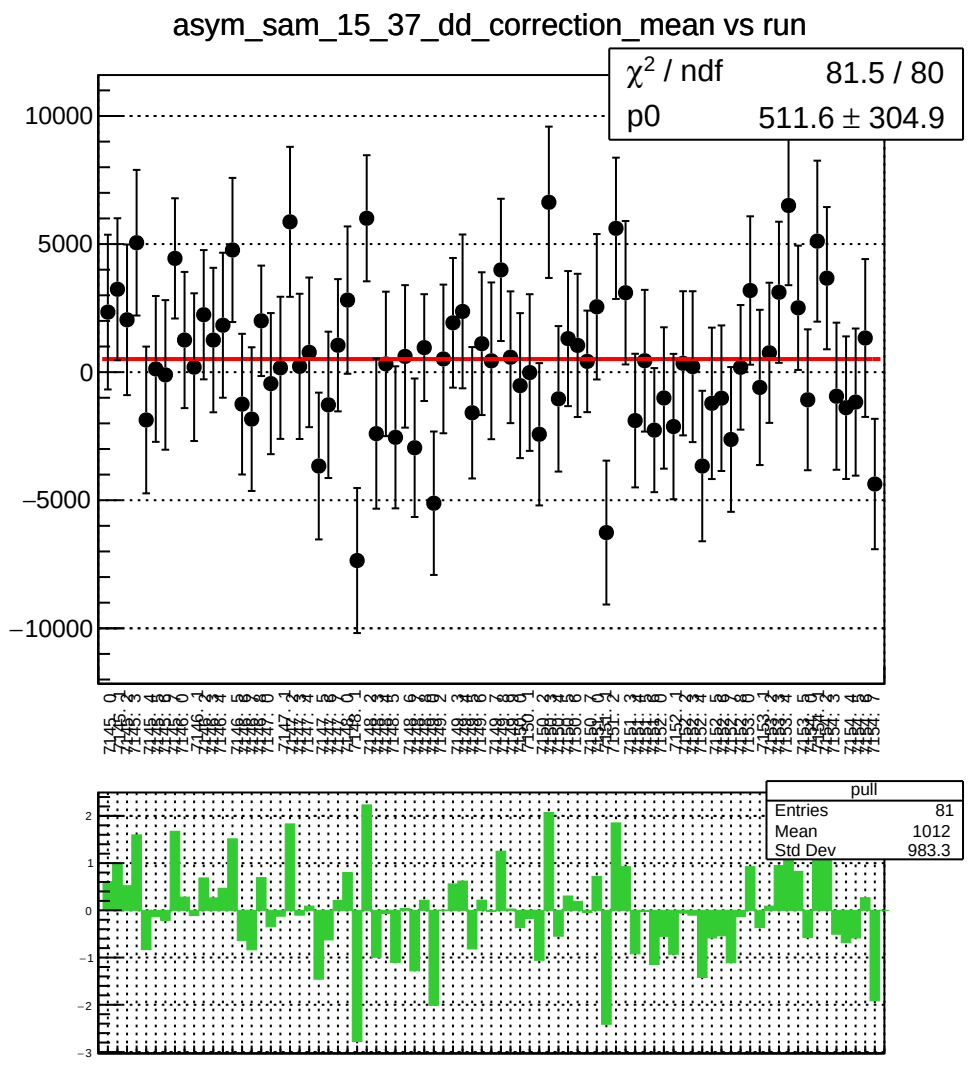

pull1D
Entries 81
Mean 0.0003476
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

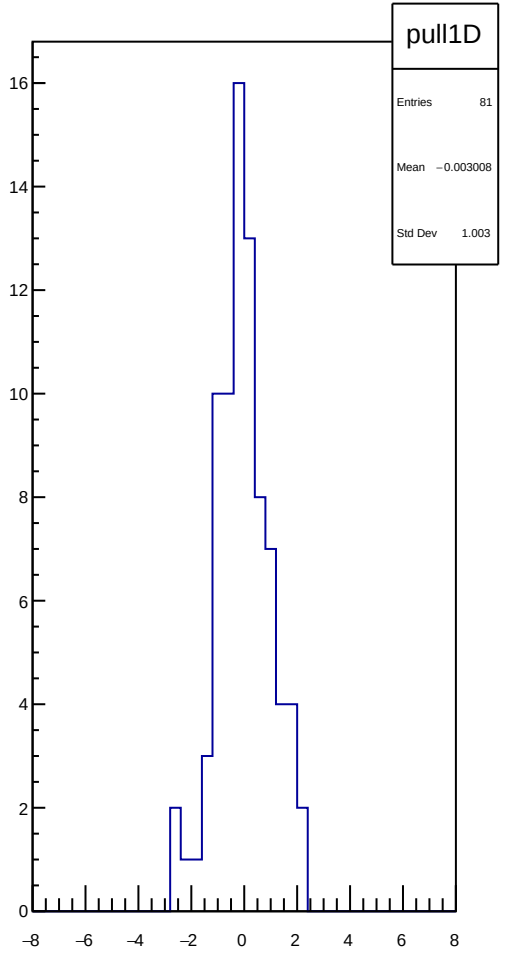

asym_sam_13_57_dd_rms vs run
χ² / ndf 4175 / 80
p0 337.3 ± 0.2717
380
370
360
350
340
330
320
310
300

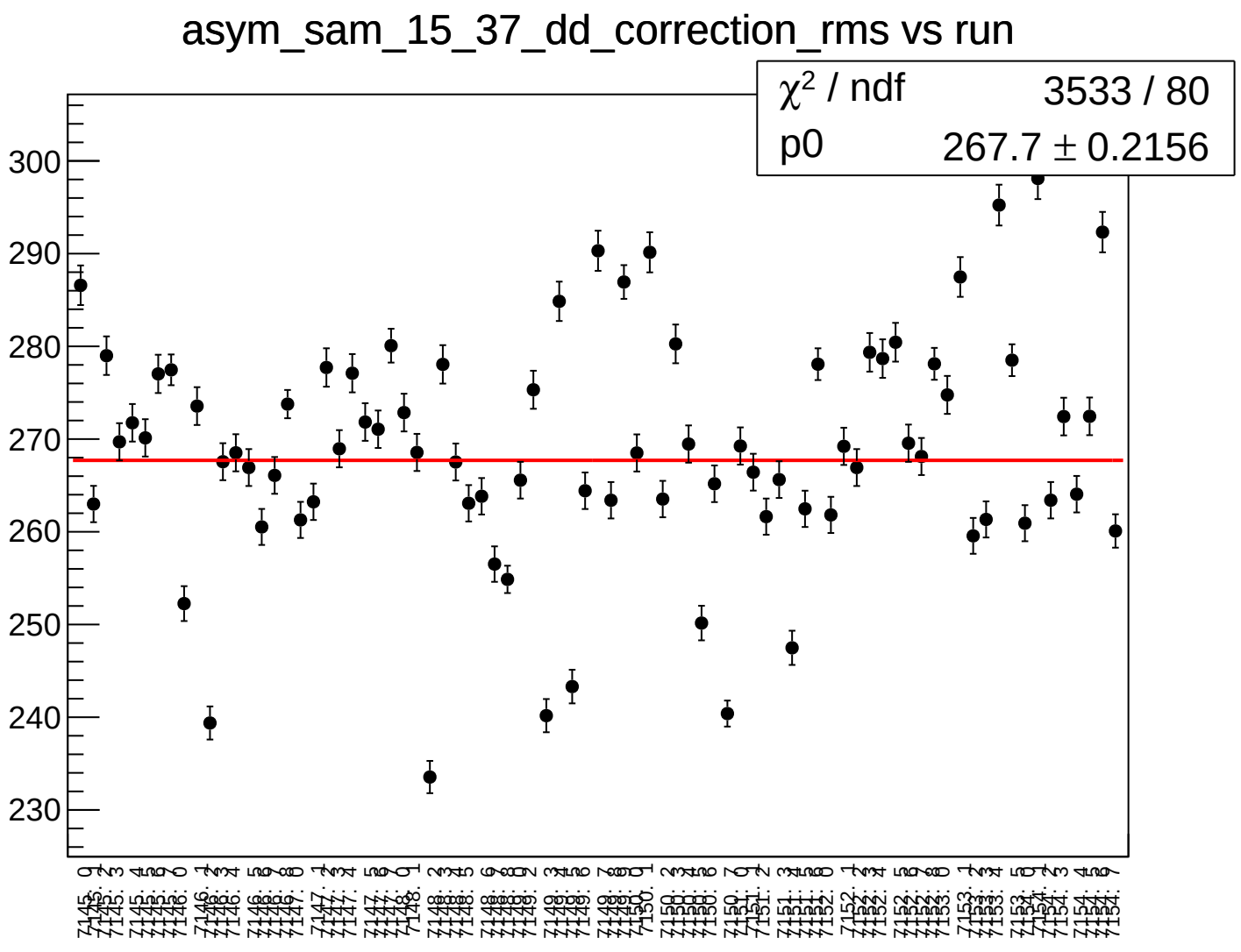

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 85.4 / 80
p0 −89.98 ± 40.61
pull
Entries 81
Mean 5.299
Std Dev 54.48

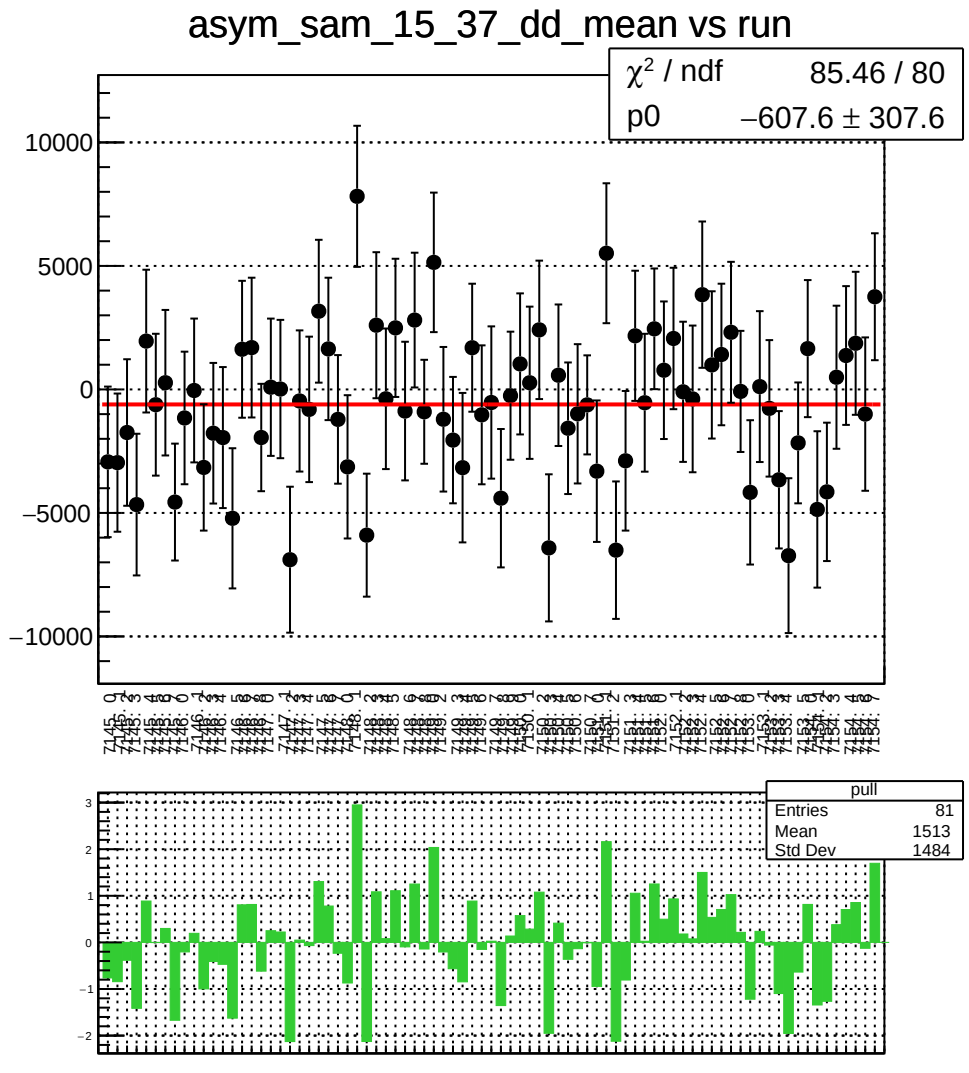

pull1D
Entries 81
Mean −0.0156
Std Dev 1.027

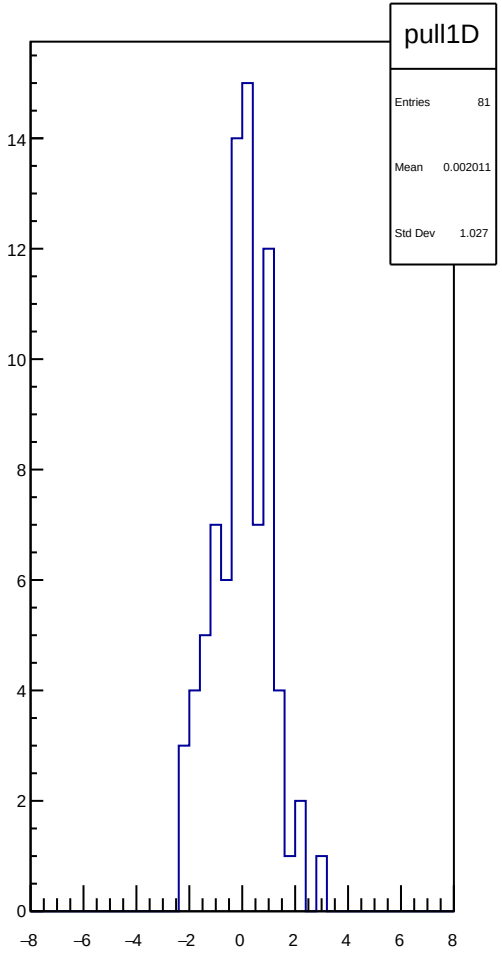

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 800.5 / 80
p0 35.69 ± 0.02872
40
39
38
37
36
35
34

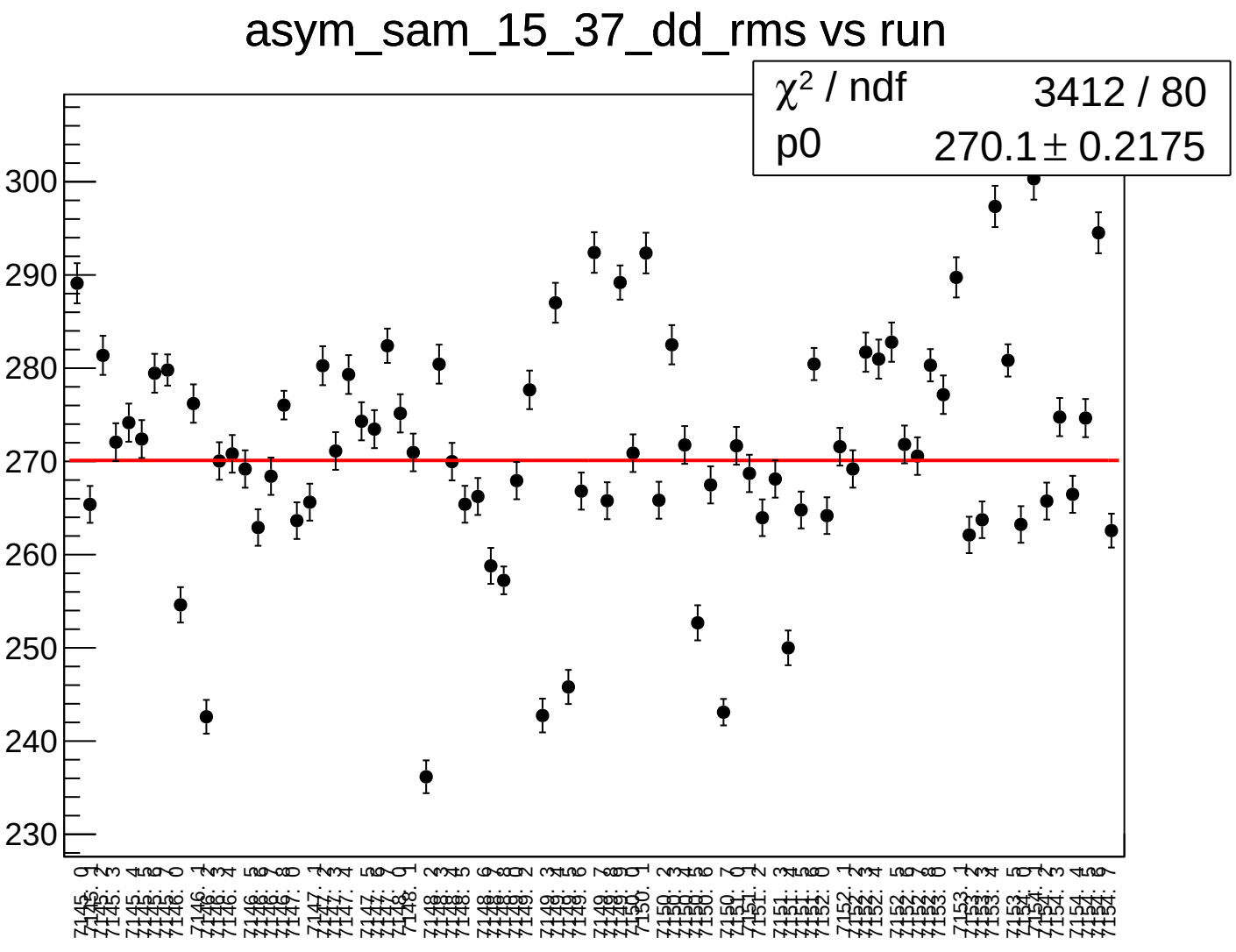

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 81.5 / 80
p0 511.6 ± 304.9
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 1012
Std Dev 983.3
2
1
0
−1
−2
−3

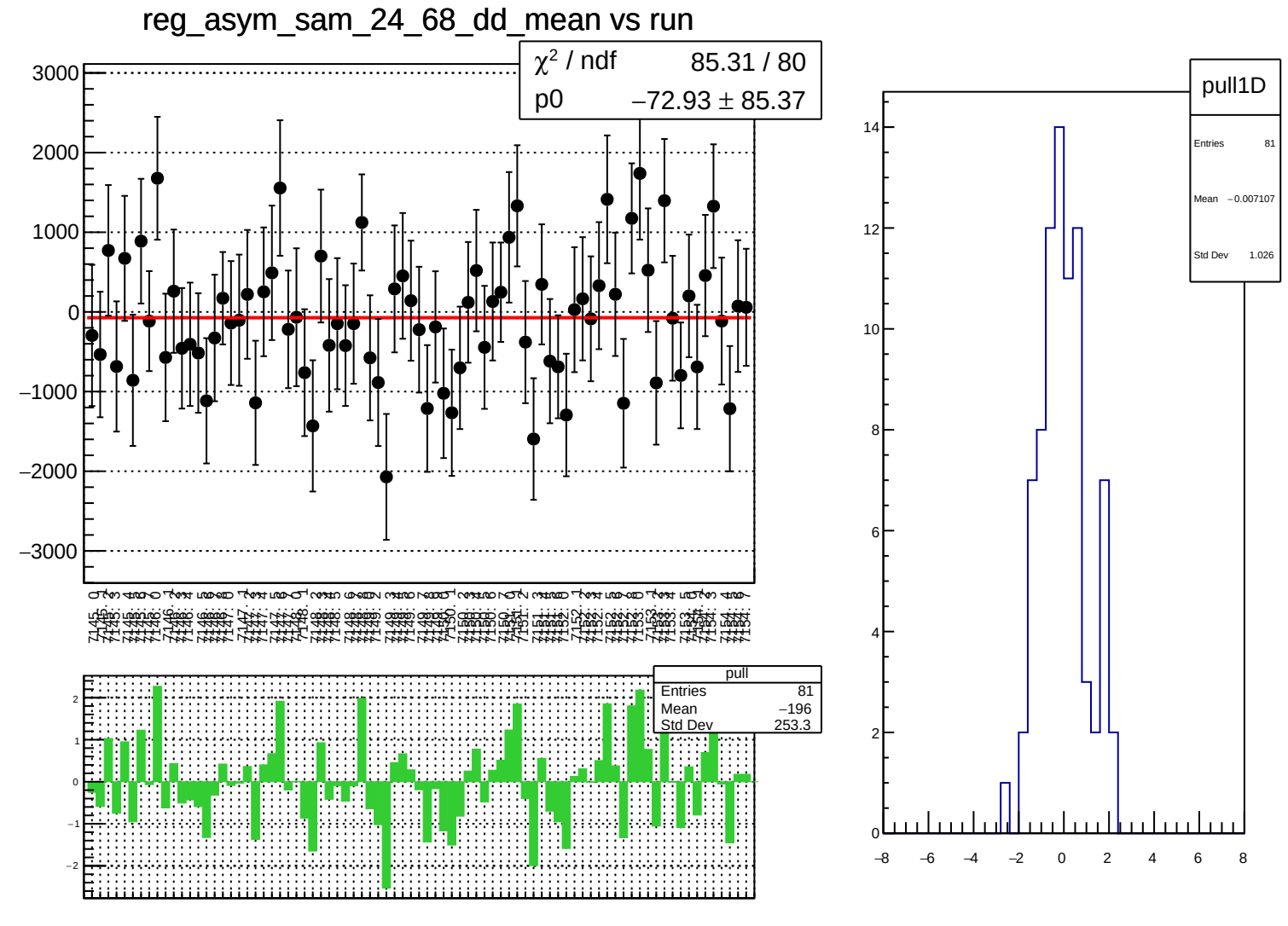

pull1D
Entries 81
Mean −0.003008
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

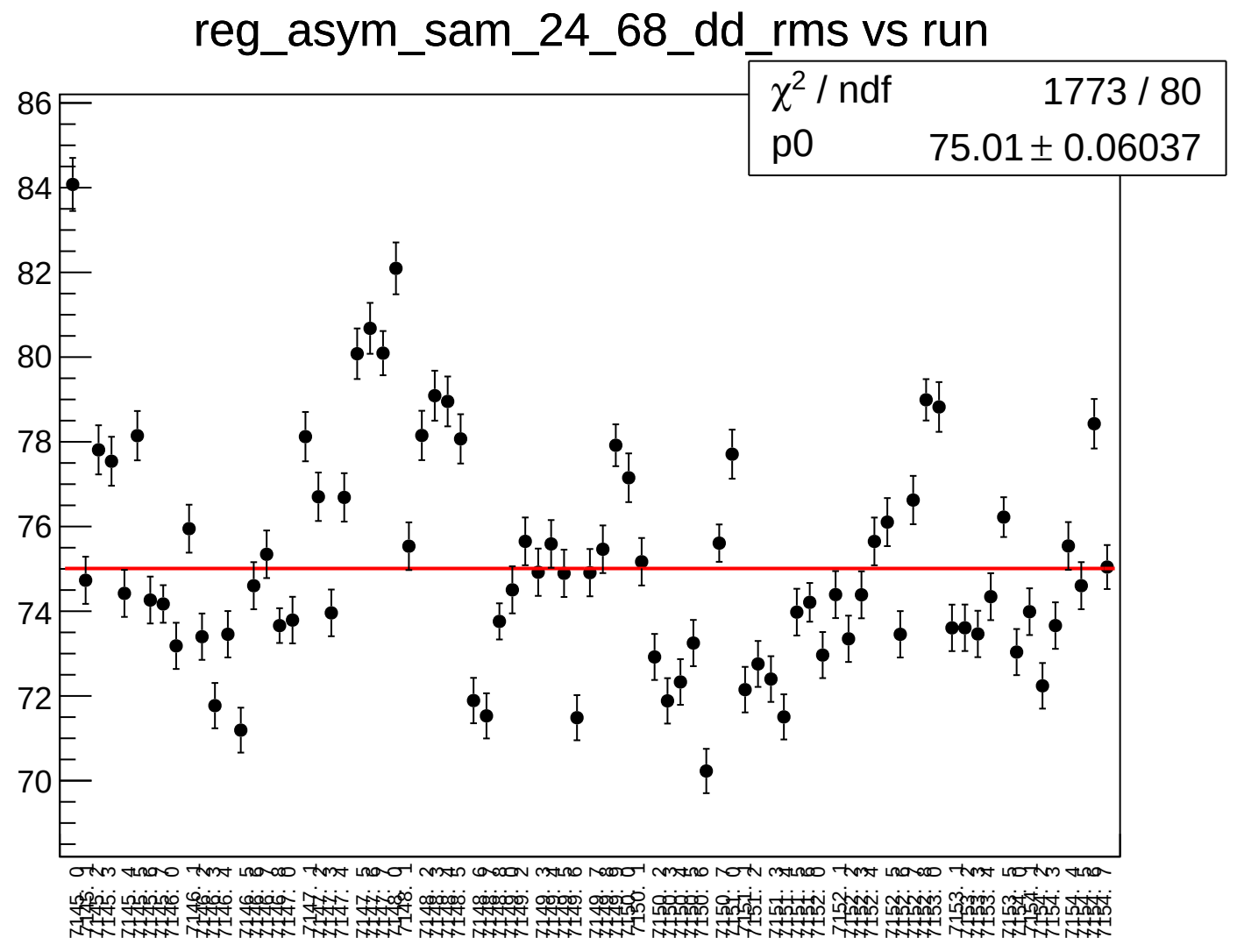

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 3533 / 80
p0 267.7 ± 0.2156
300
290
280
270
260
250
240
230

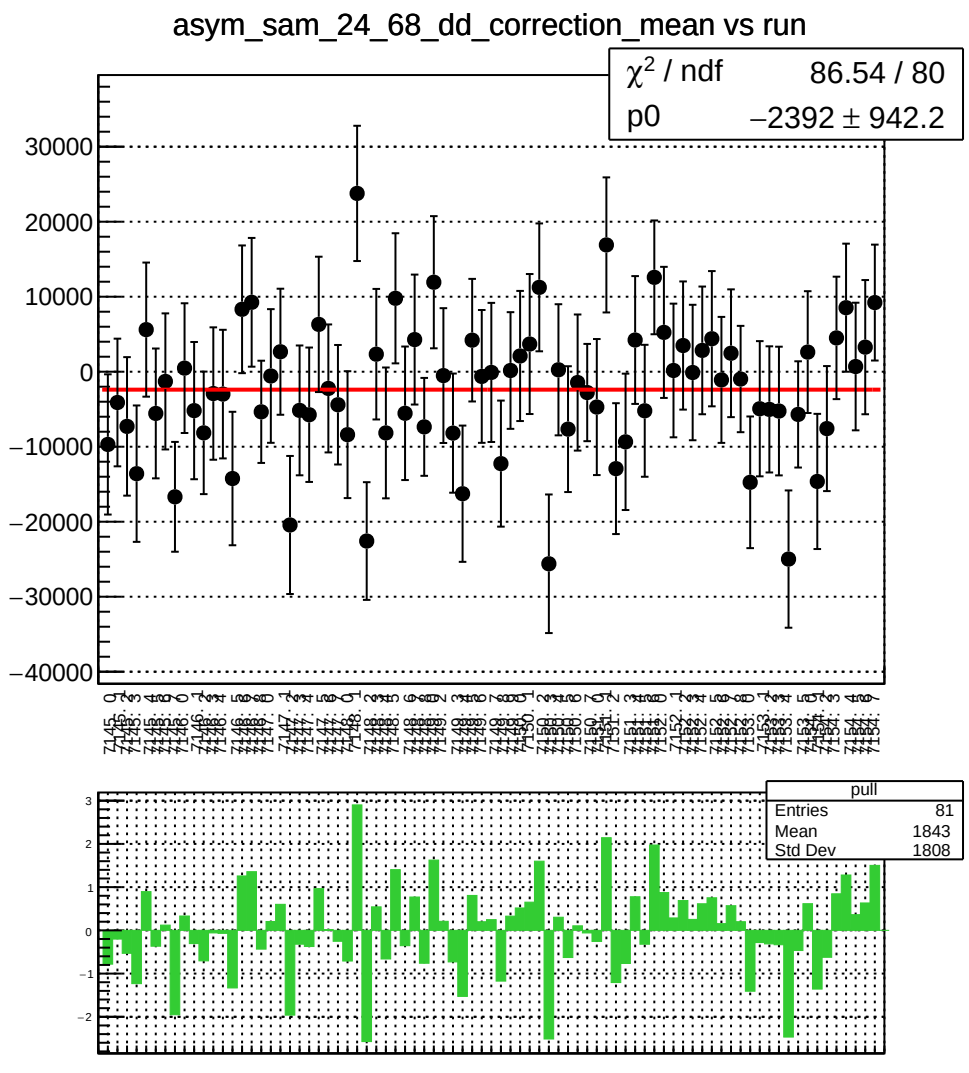

asym_sam_15_37_dd_mean vs run
χ² / ndf 85.46 / 80
p0 −607.6 ± 307.6
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 1513
Std Dev 1484

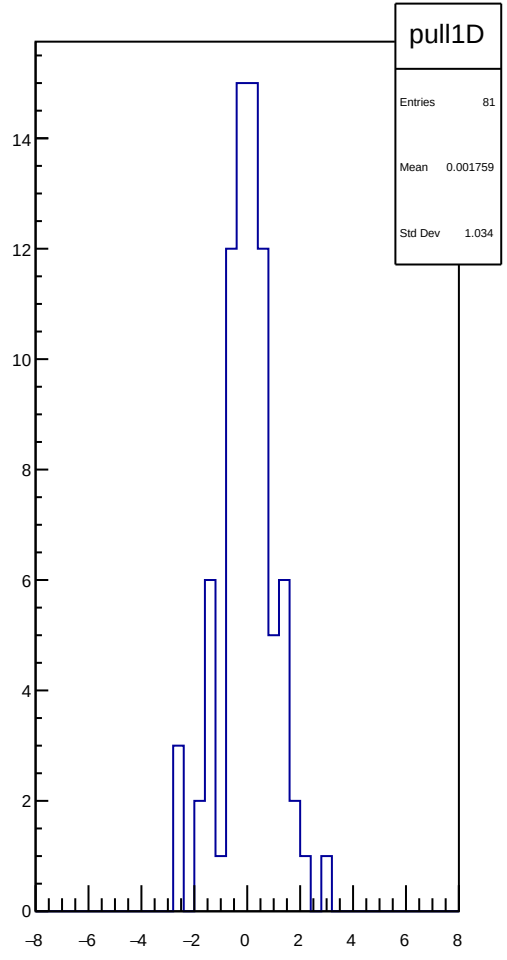

pull1D
Entries 81
Mean 0.002011
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

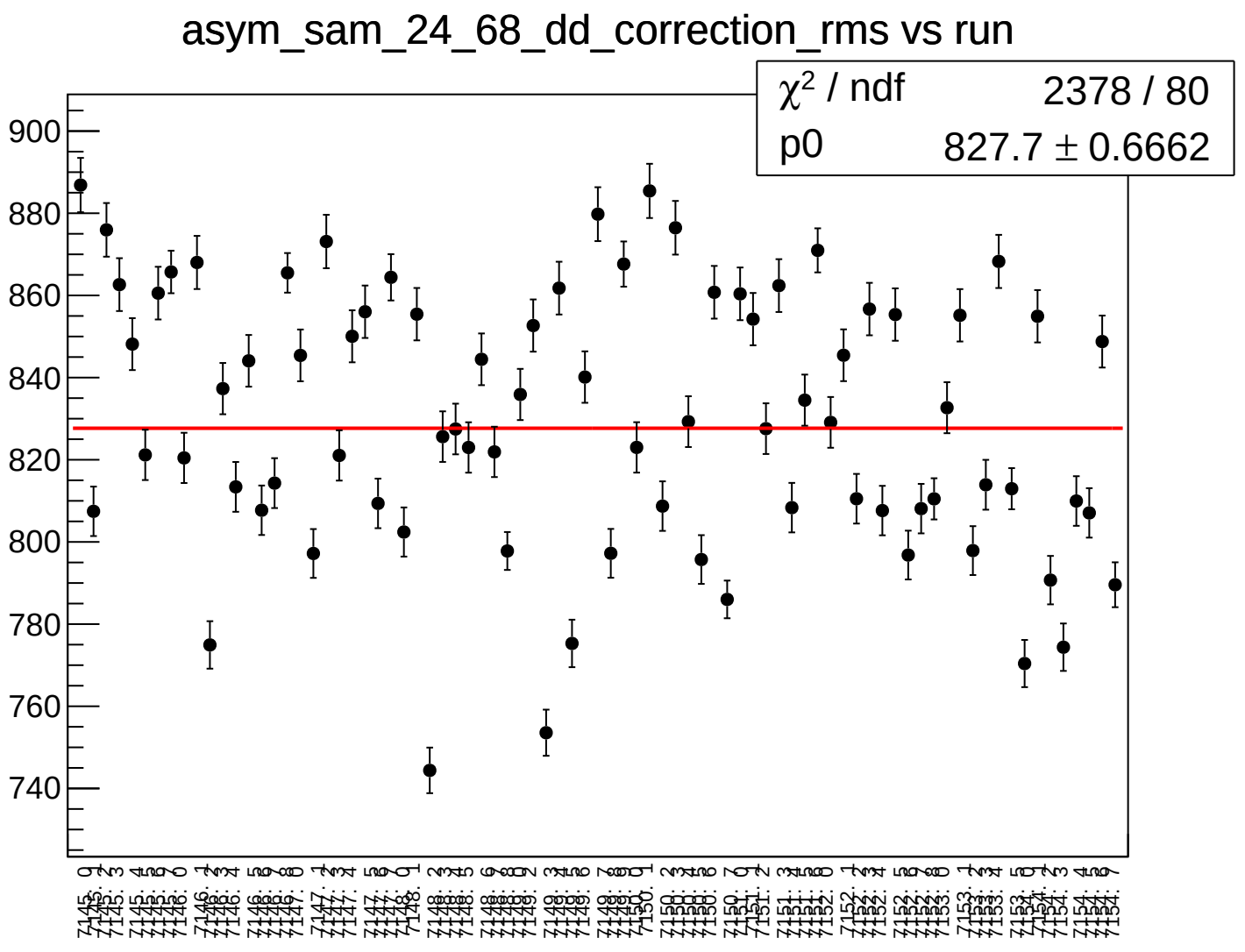

asym_sam_15_37_dd_rms vs run
χ² / ndf 3412 / 80
p0 270.1 ± 0.2175
300
290
280
270
260
250
240
230

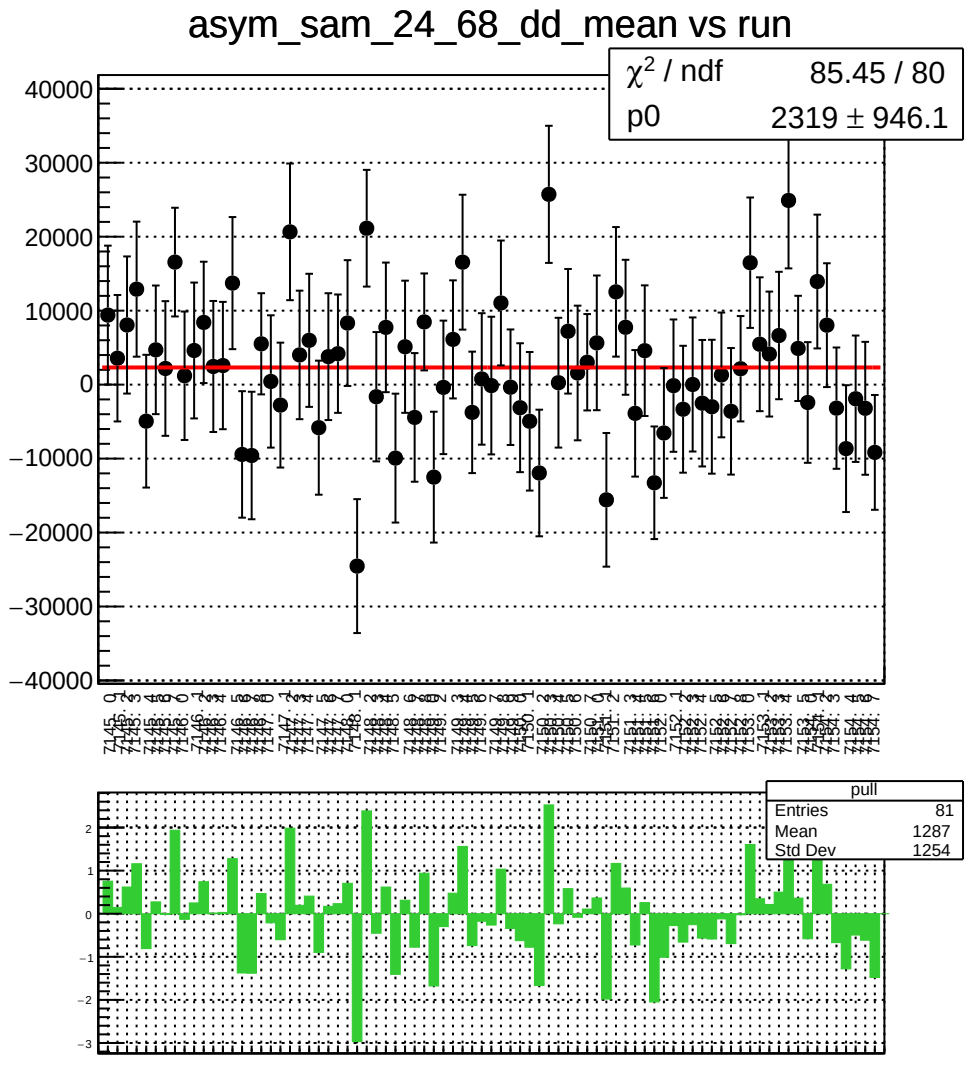

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 85.31 / 80
p0 −72.93 ± 85.37
pull
Entries 81
Mean −196
Std Dev 253.3
pull1D
Entries 81
Mean −0.007107
Std Dev 1.026

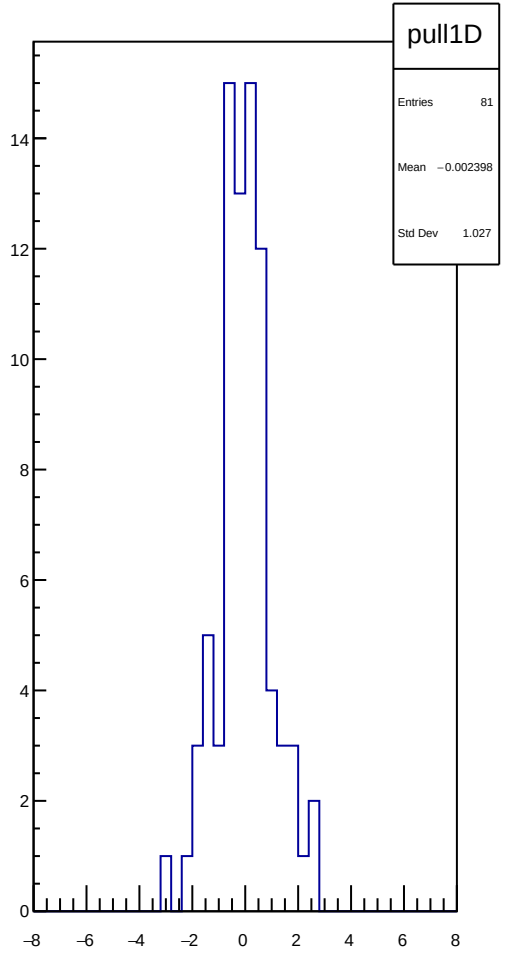

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1773 / 80
p0 75.01 ± 0.06037
86
84
82
80
78
76
74
72
70

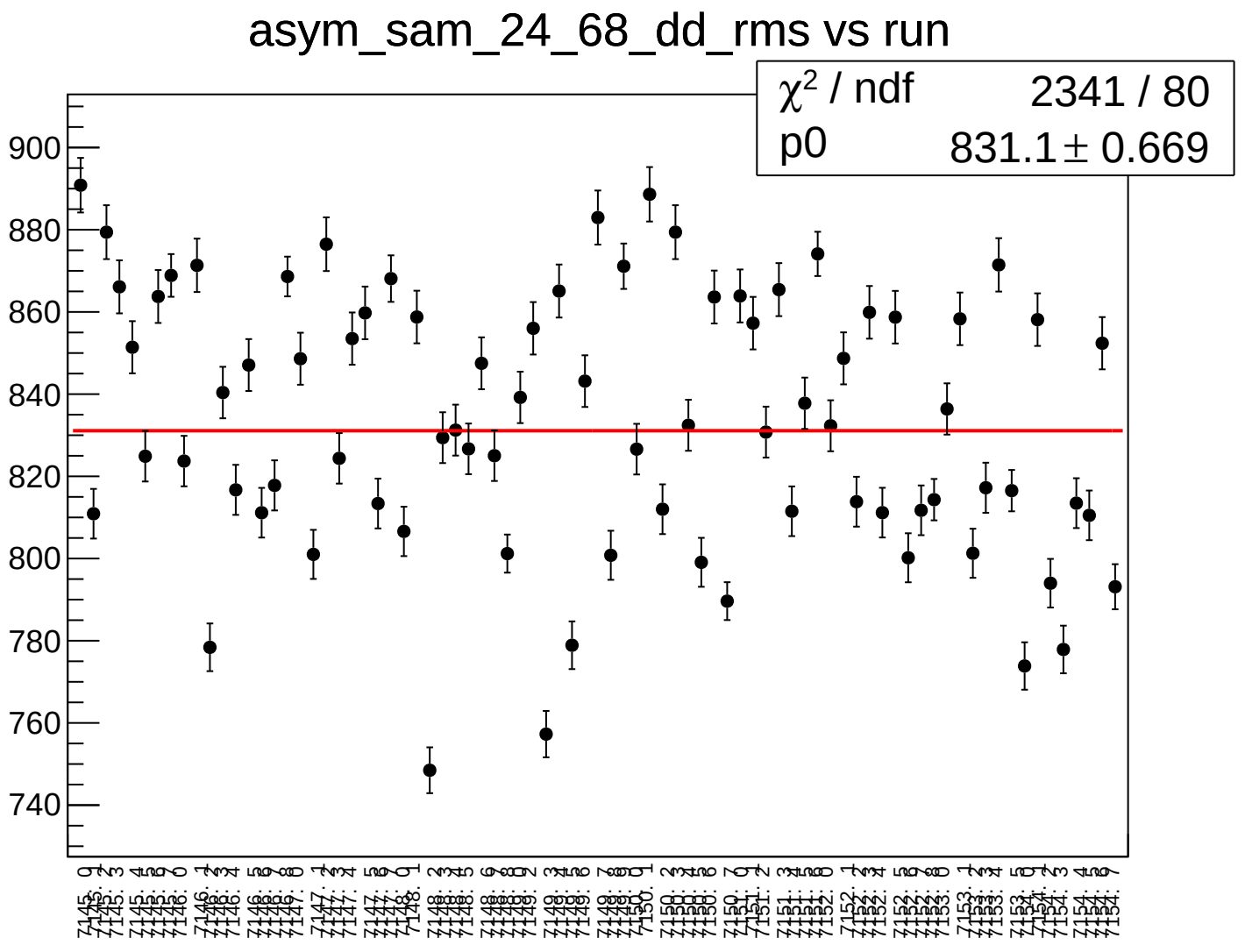

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 86.54 / 80
p0 −2392 ± 942.2
pull
Entries 81
Mean 1843
Std Dev 1808

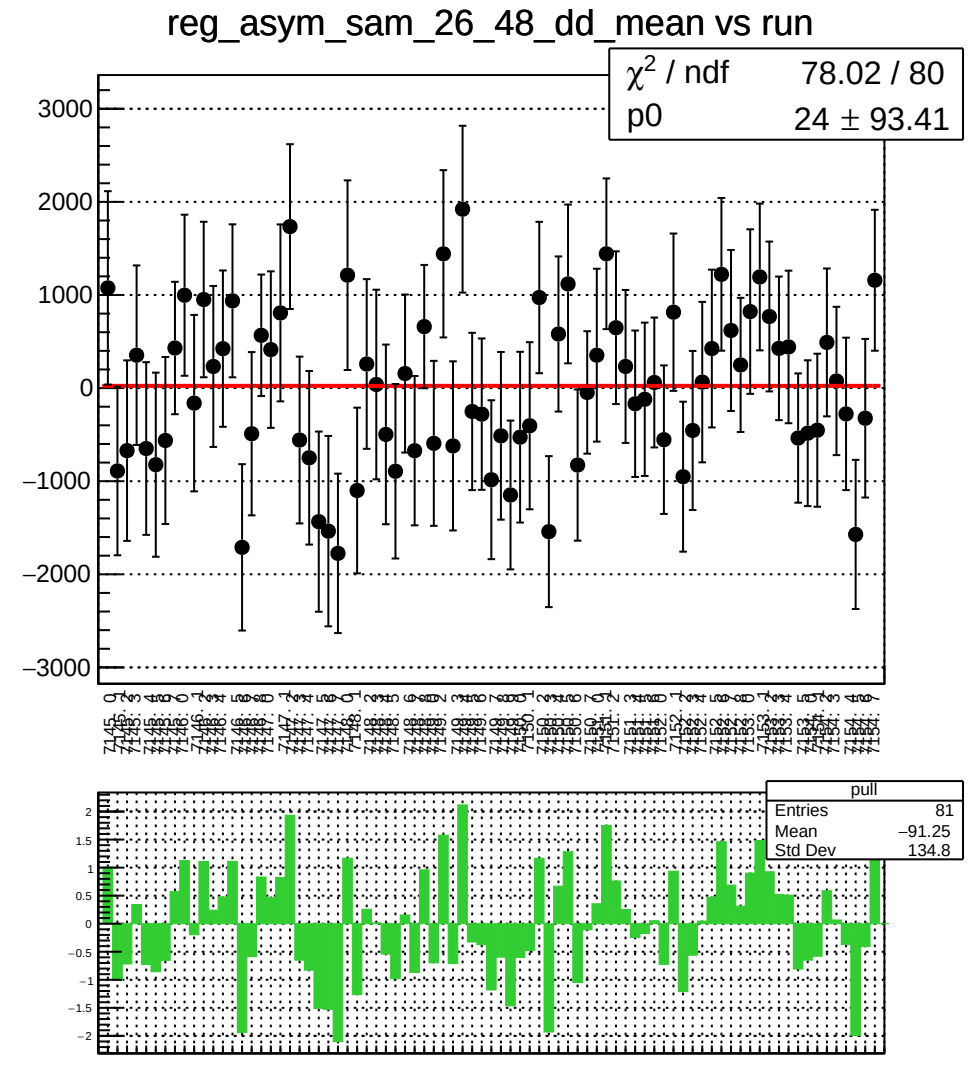

pull1D
Entries 81
Mean 0.001759
Std Dev 1.034

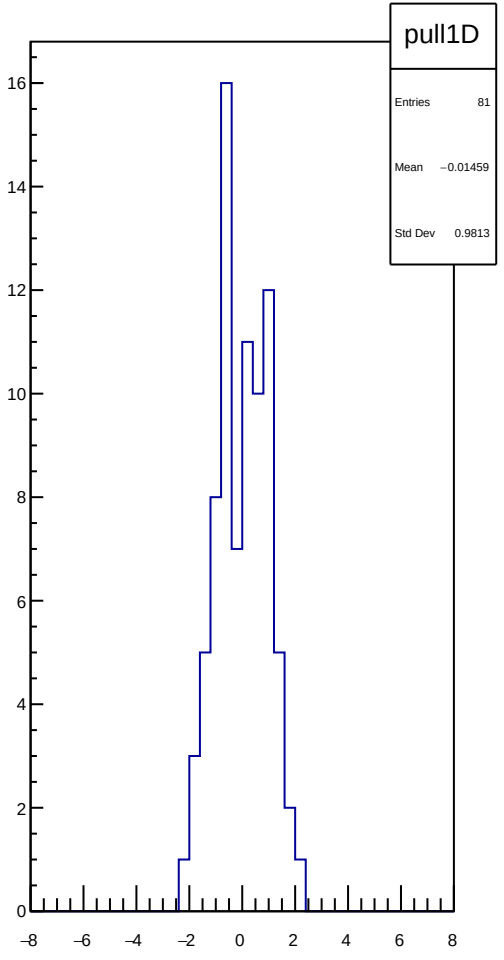

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 2378 / 80
p0 827.7 ± 0.6662
900
880
860
840
820
800
780
760
740

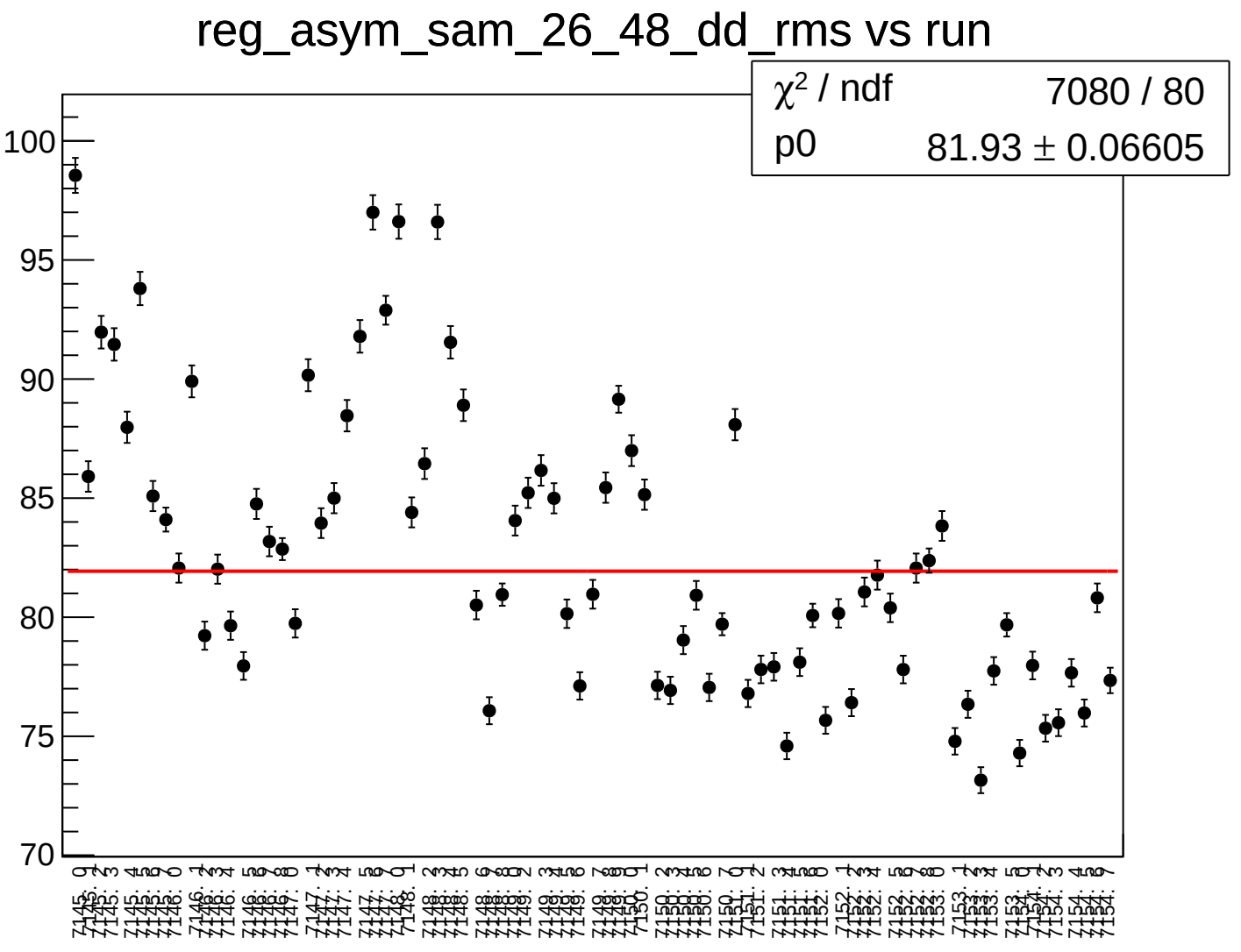

asym_sam_24_68_dd_mean vs run
χ² / ndf 85.45 / 80
p0 2319 ± 946.1
pull
Entries 81
Mean 1287
Std Dev 1254

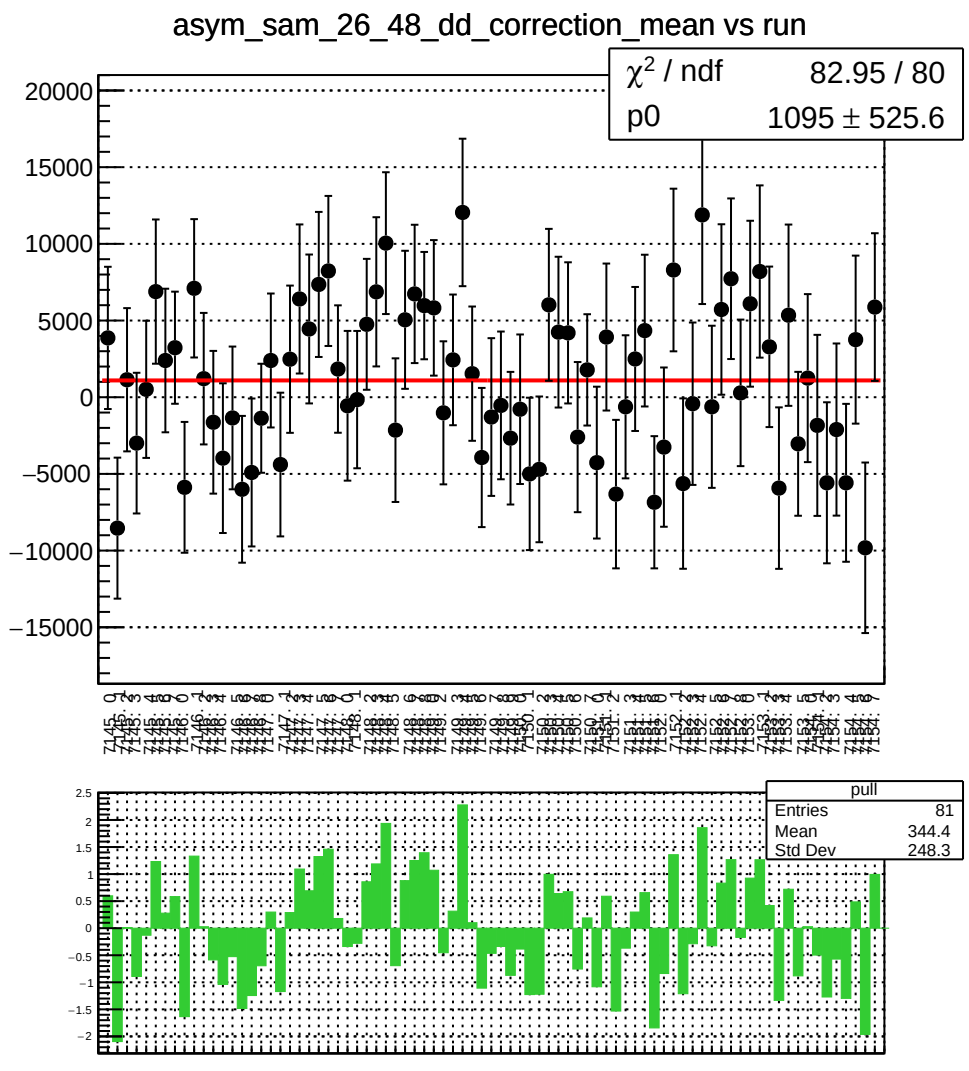

pull1D
Entries 81
Mean −0.002398
Std Dev 1.027

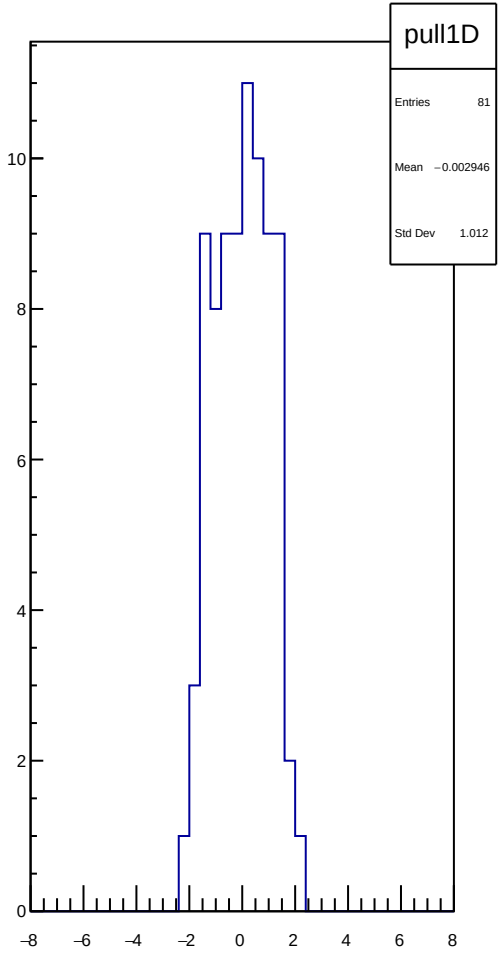

asym_sam_24_68_dd_rms vs run
χ^2 / ndf 2341 / 80
p0 831.1 ± 0.669
900
880
860
840
820
800
780
760
740

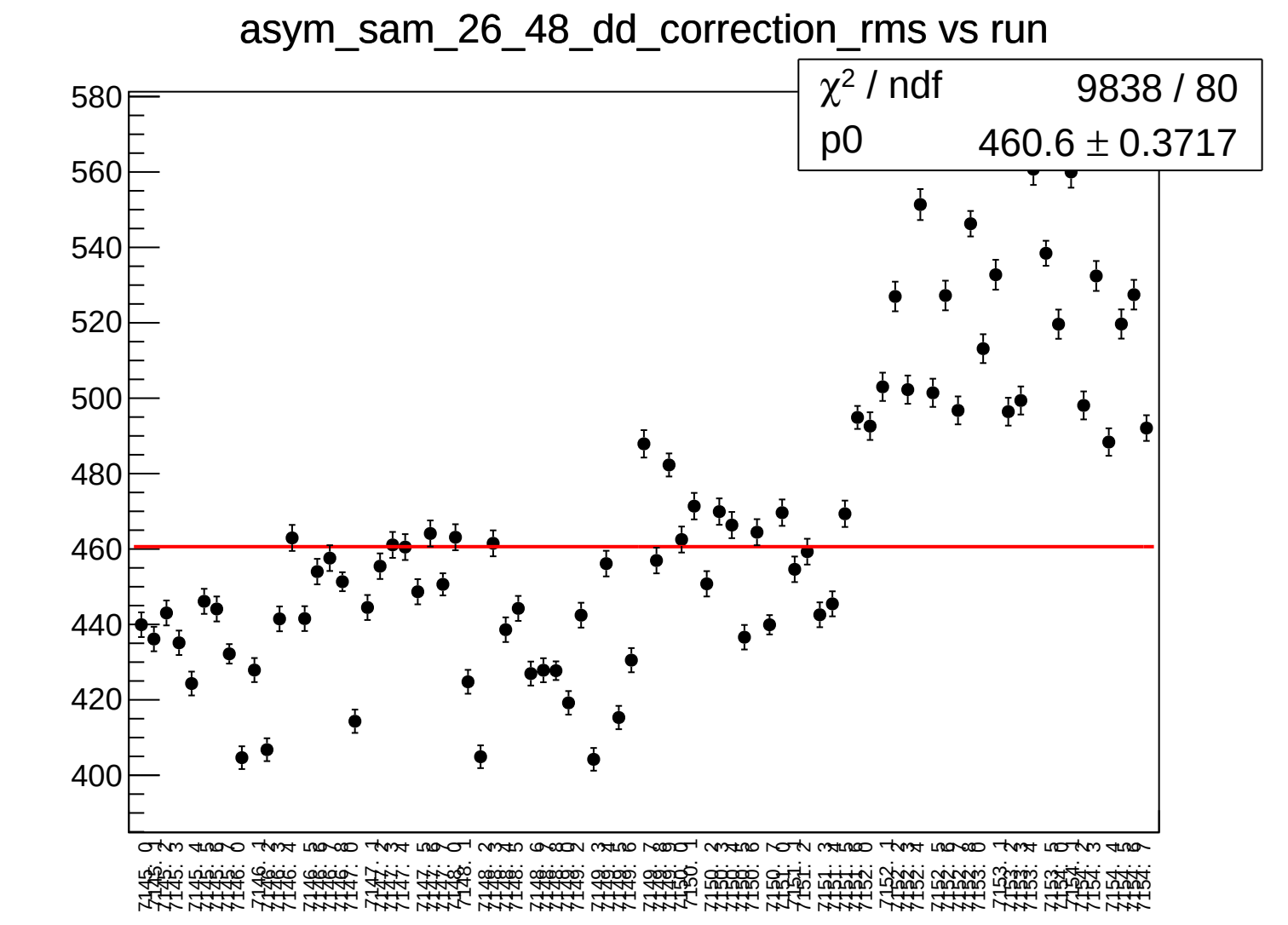

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 78.02 / 80
p0 24 ± 93.41
pull
Entries 81
Mean −91.25
Std Dev 134.8

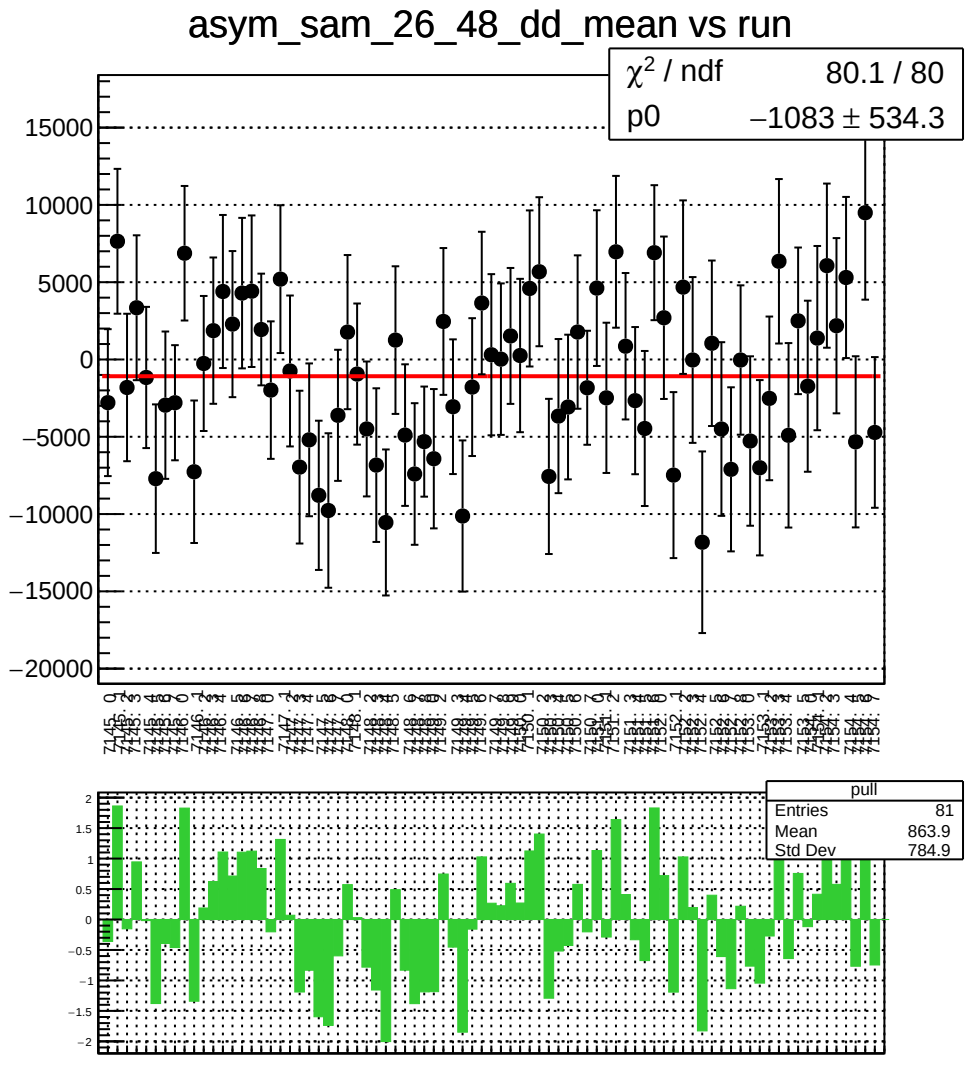

pull1D
Entries 81
Mean −0.01459
Std Dev 0.9813

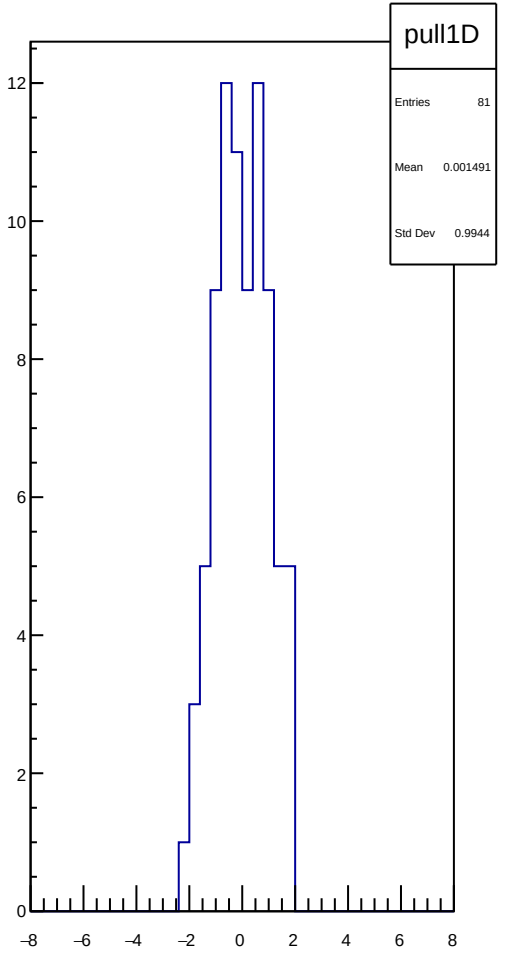

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 7080 / 80
p0 81.93 ± 0.06605
100
95
90
85
80
75
70

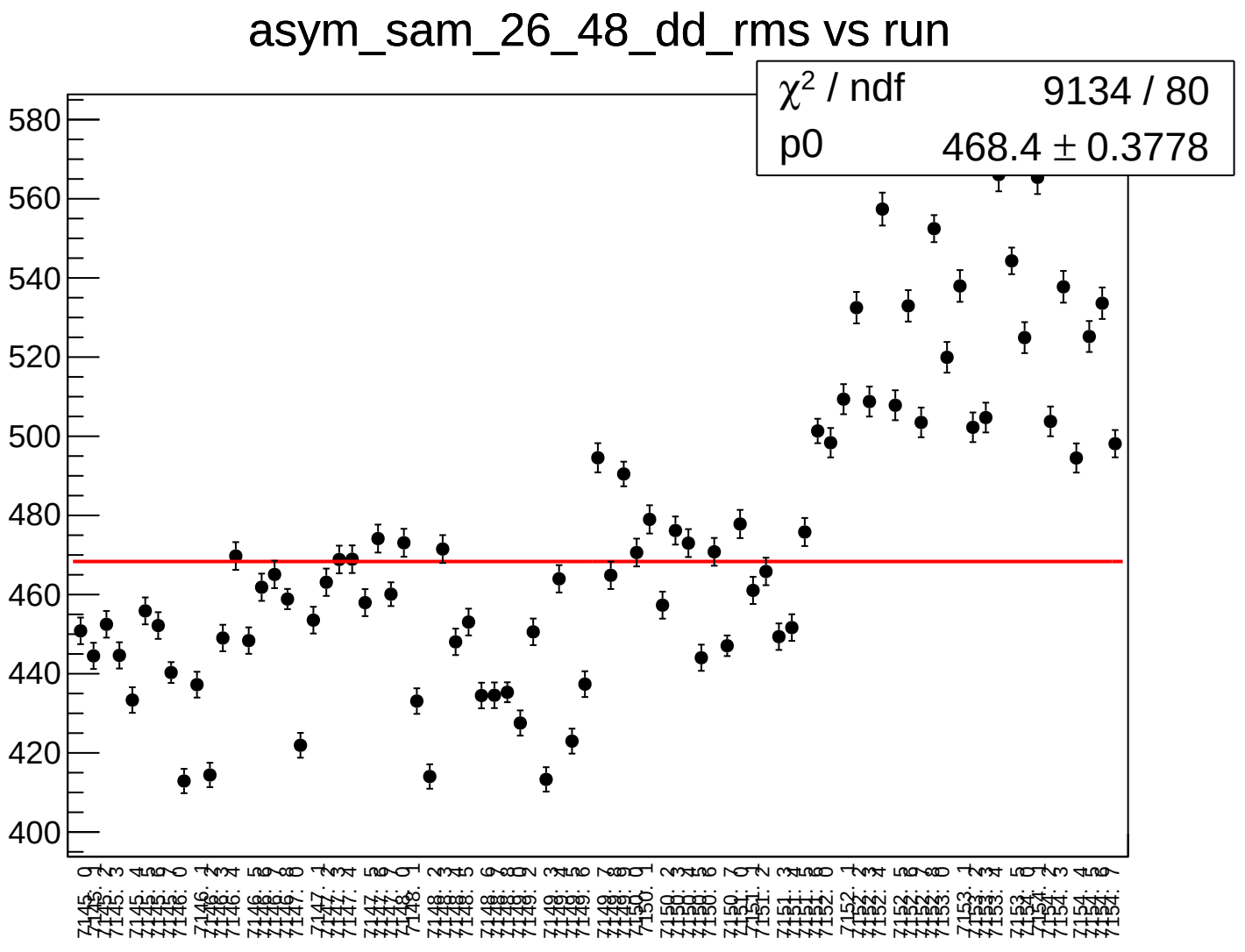

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 82.95 / 80
p0 1095 ± 525.6
pull
Entries 81
Mean 344.4
Std Dev 248.3

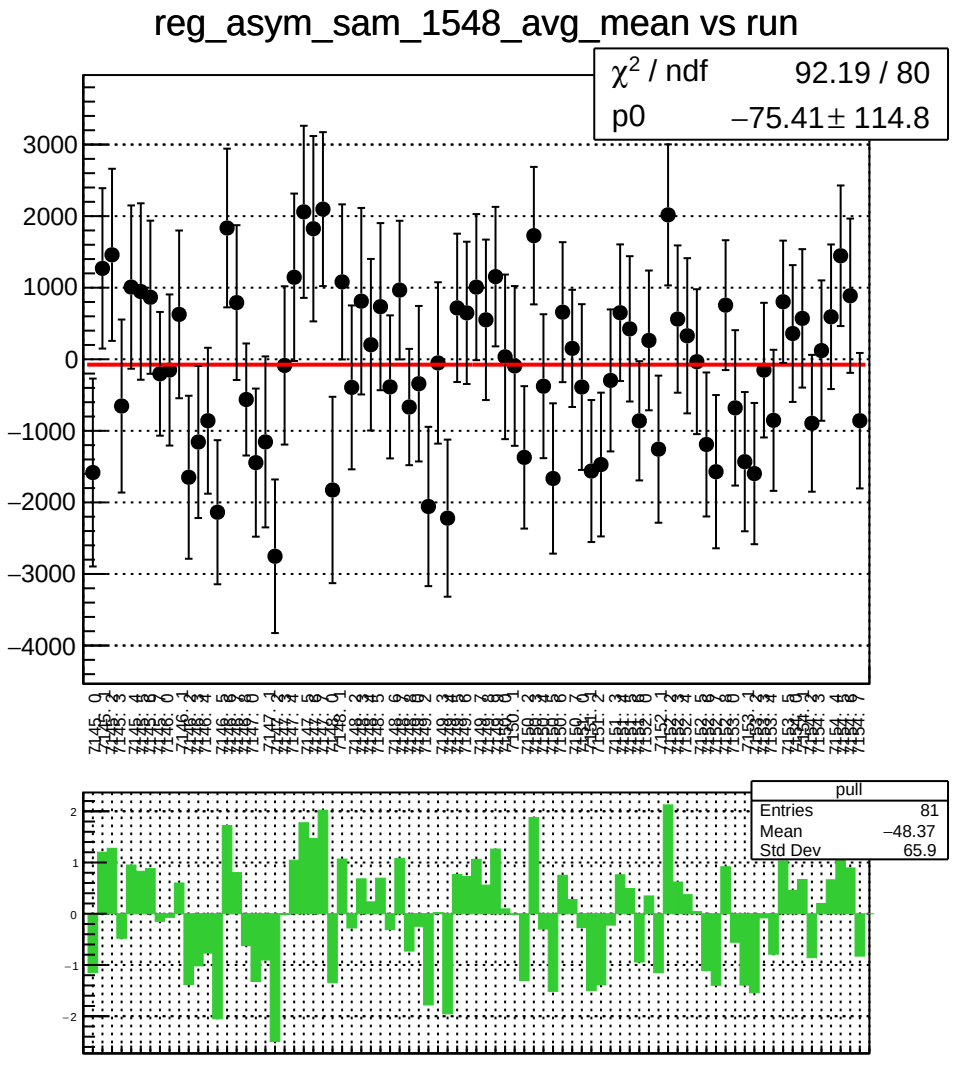

pull1D
Entries 81
Mean −0.002946
Std Dev 1.012

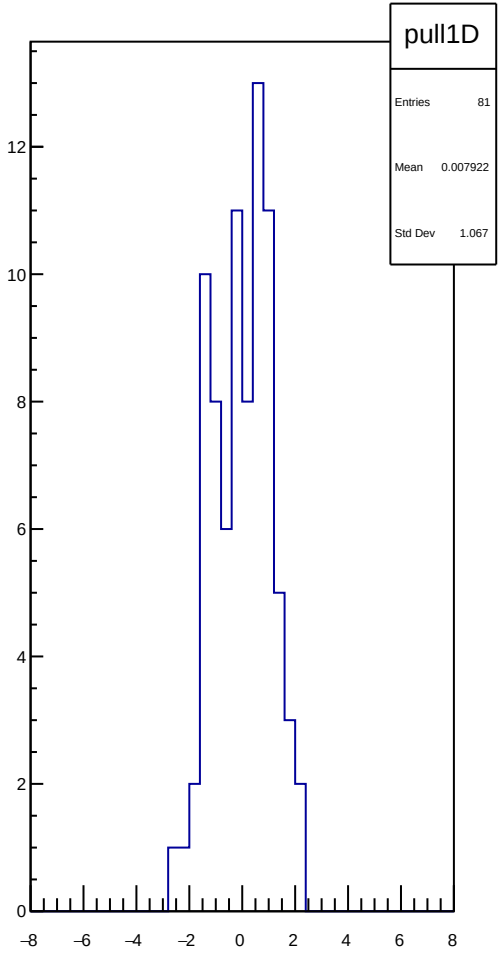

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 9838 / 80
p0 460.6 ± 0.3717
580
560
540
520
500
480
460
440
420
400

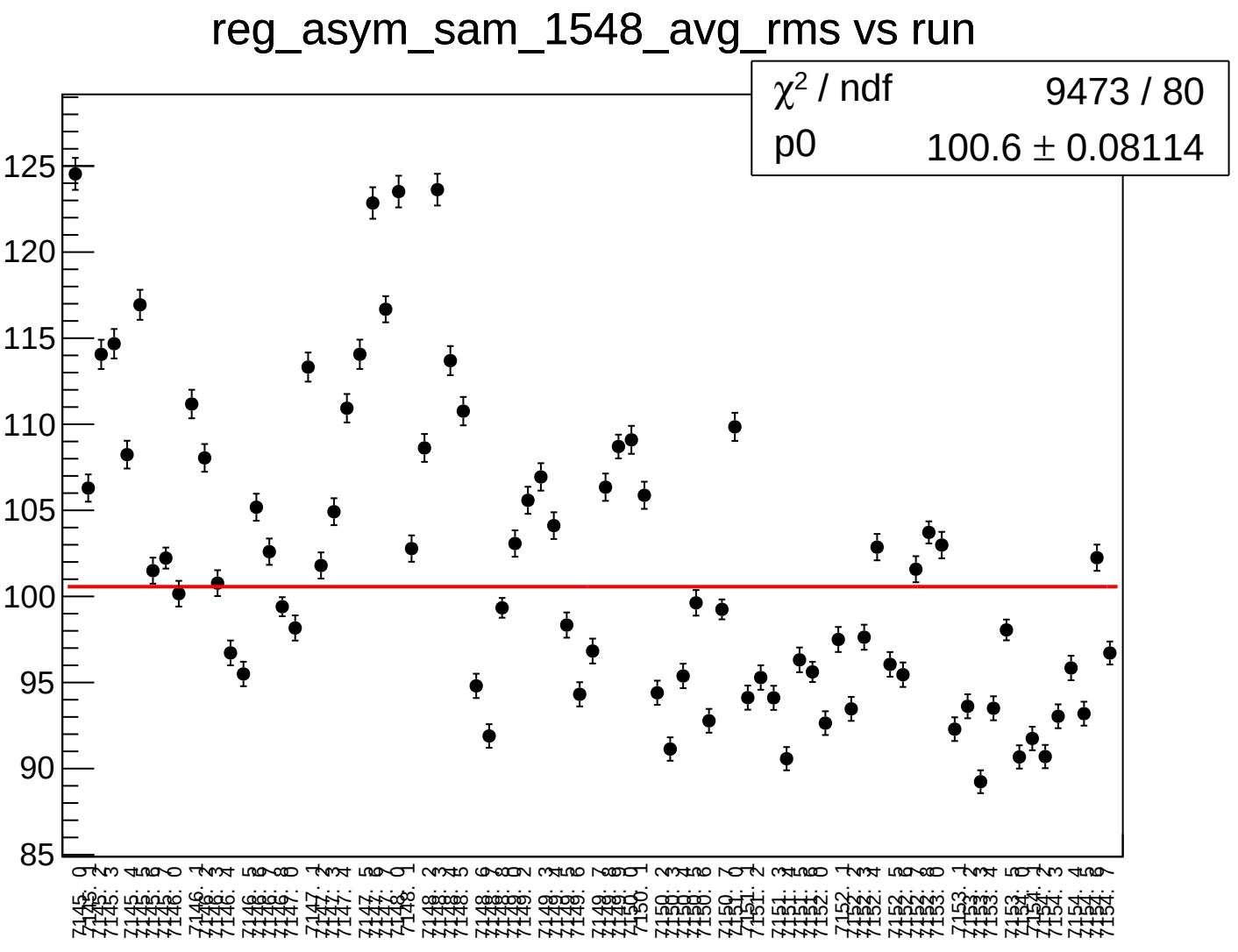

asym_sam_26_48_dd_mean vs run
χ² / ndf 80.1 / 80
p0 −1083 ± 534.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 81
Mean 863.9
Std Dev 784.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

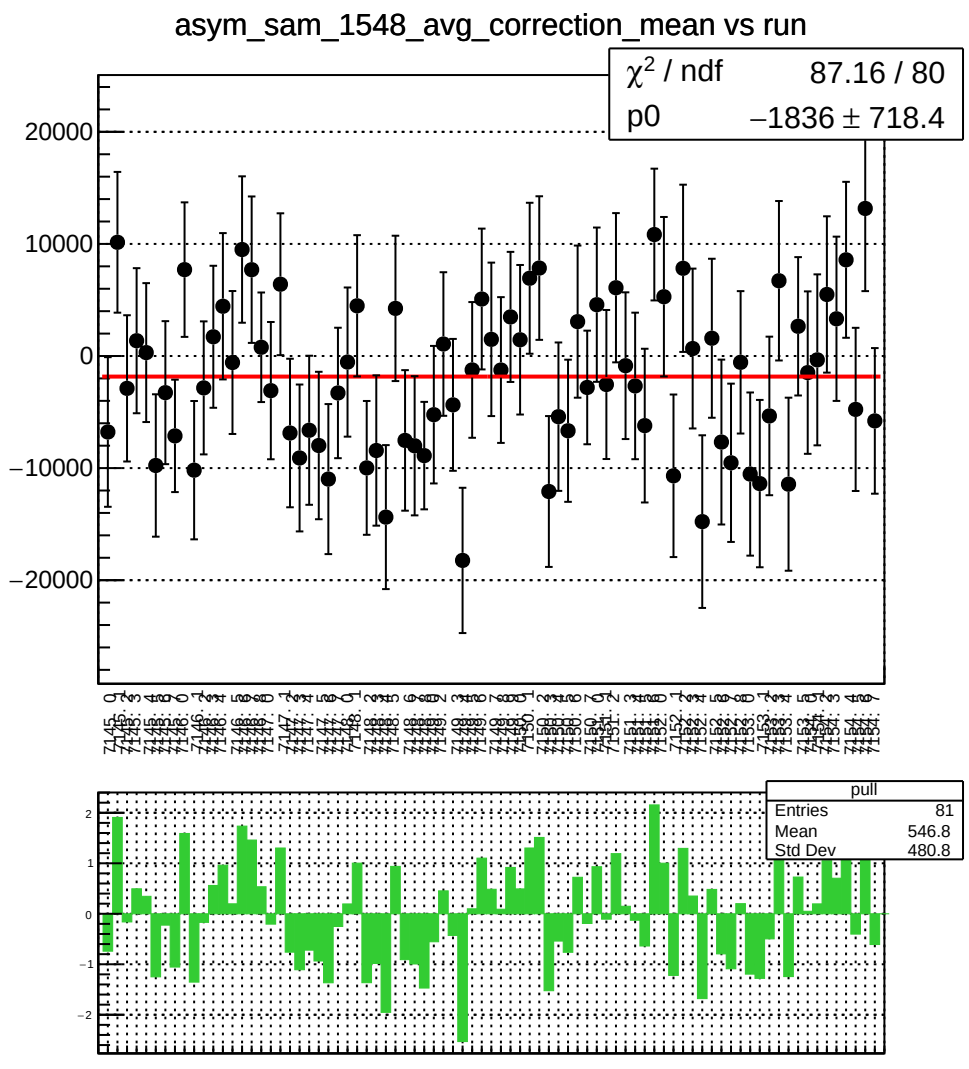

pull1D
Entries 81
Mean 0.001491
Std Dev 0.9944
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

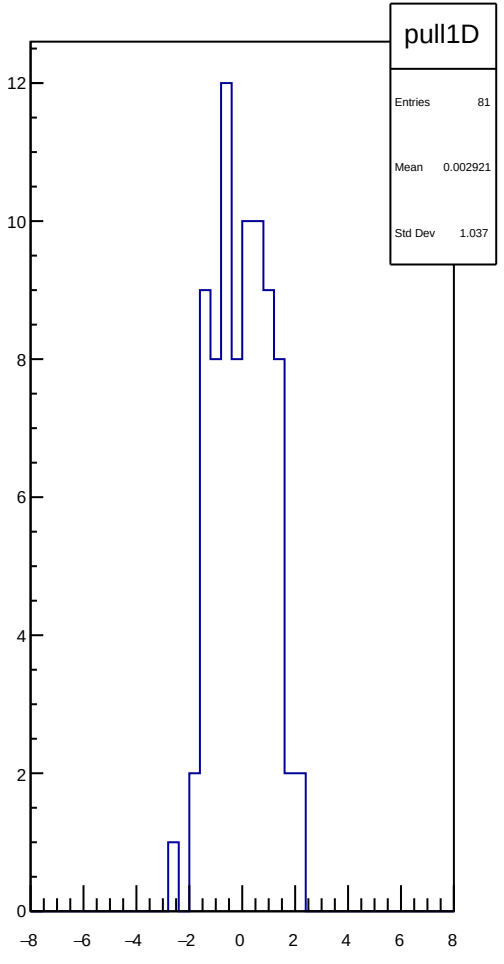

asym_sam_26_48_dd_rms vs run
χ² / ndf 9134 / 80
p0 468.4 ± 0.3778
580
560
540
520
500
480
460
440
420
400

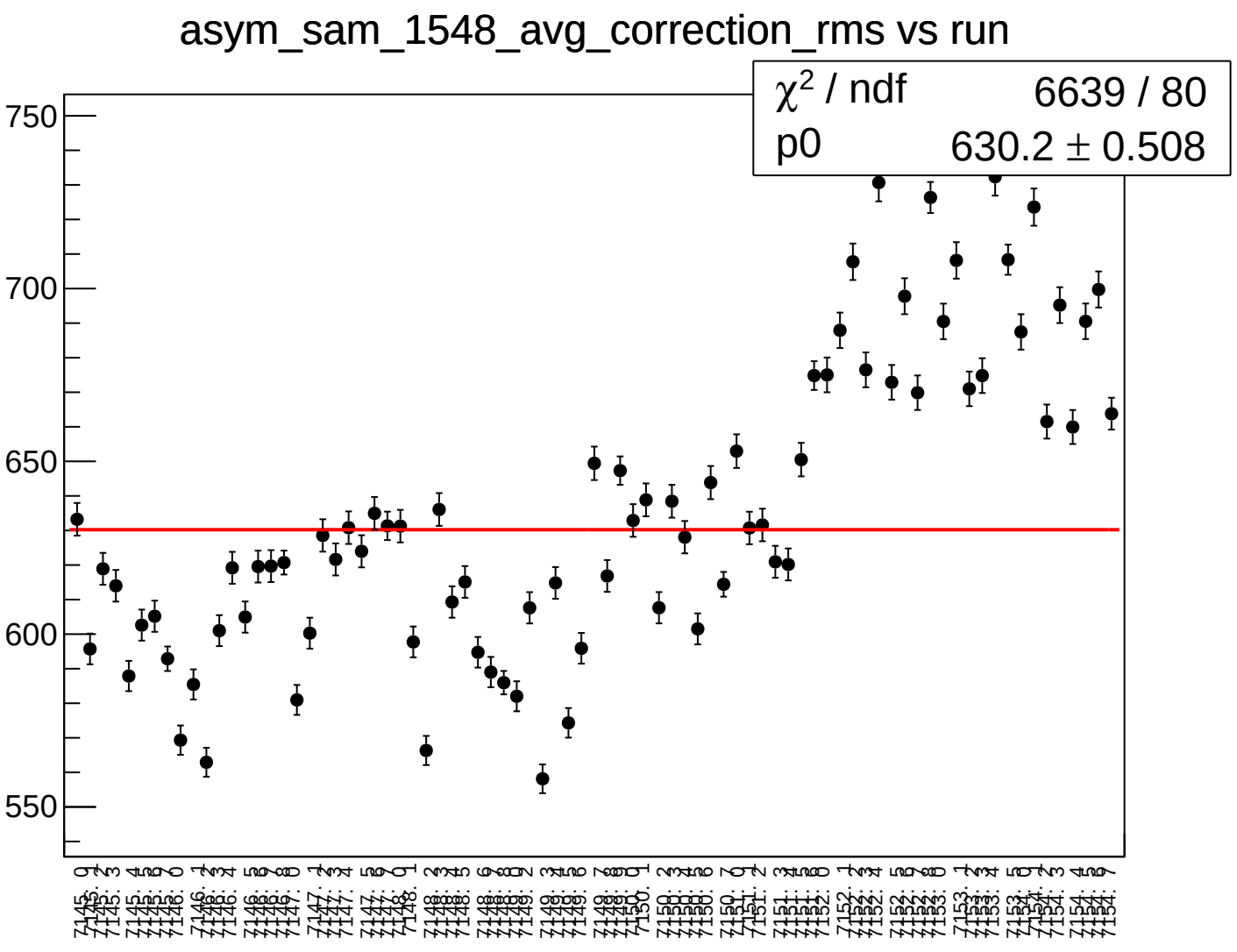

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 92.19 / 80
p0 −75.41 ± 114.8
pull
Entries 81
Mean −48.37
Std Dev 65.9

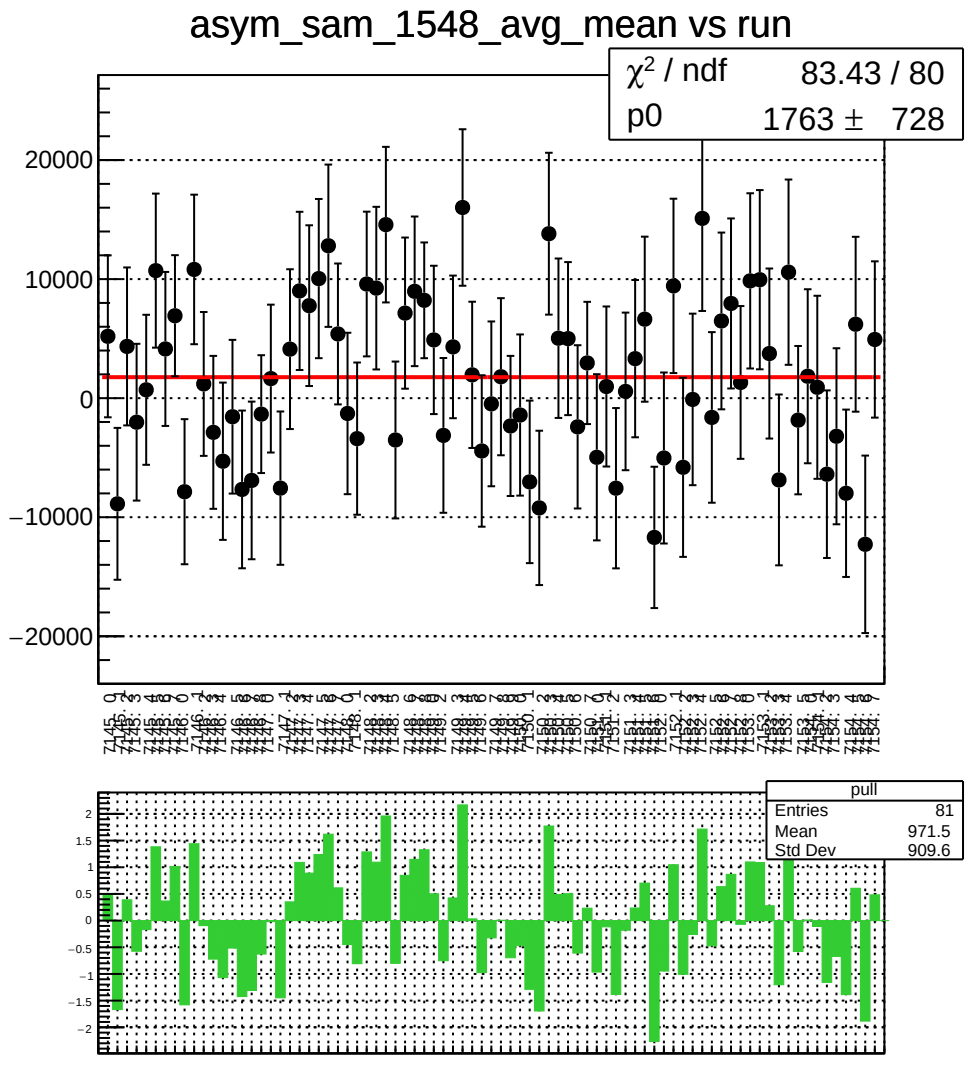

pull1D
Entries 81
Mean 0.007922
Std Dev 1.067

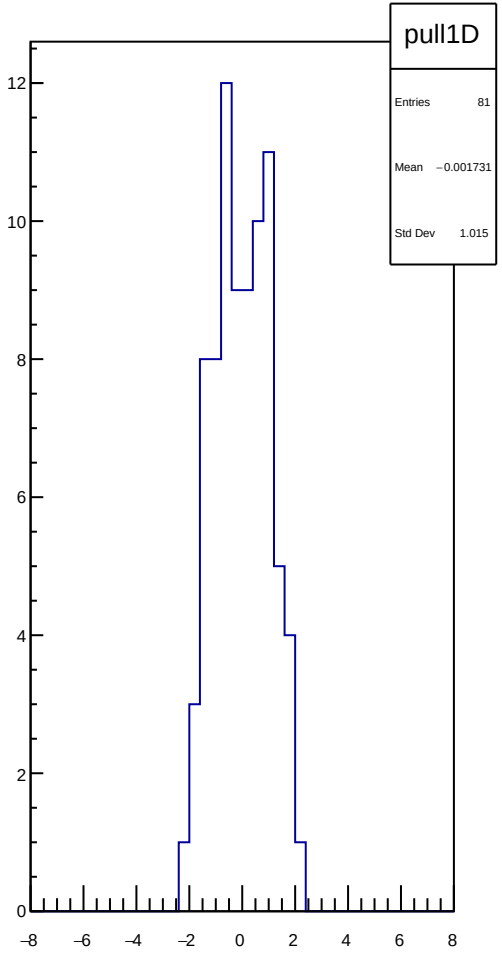

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 9473 / 80
p0 100.6 ± 0.08114
125
120
115
110
105
100
95
90
85

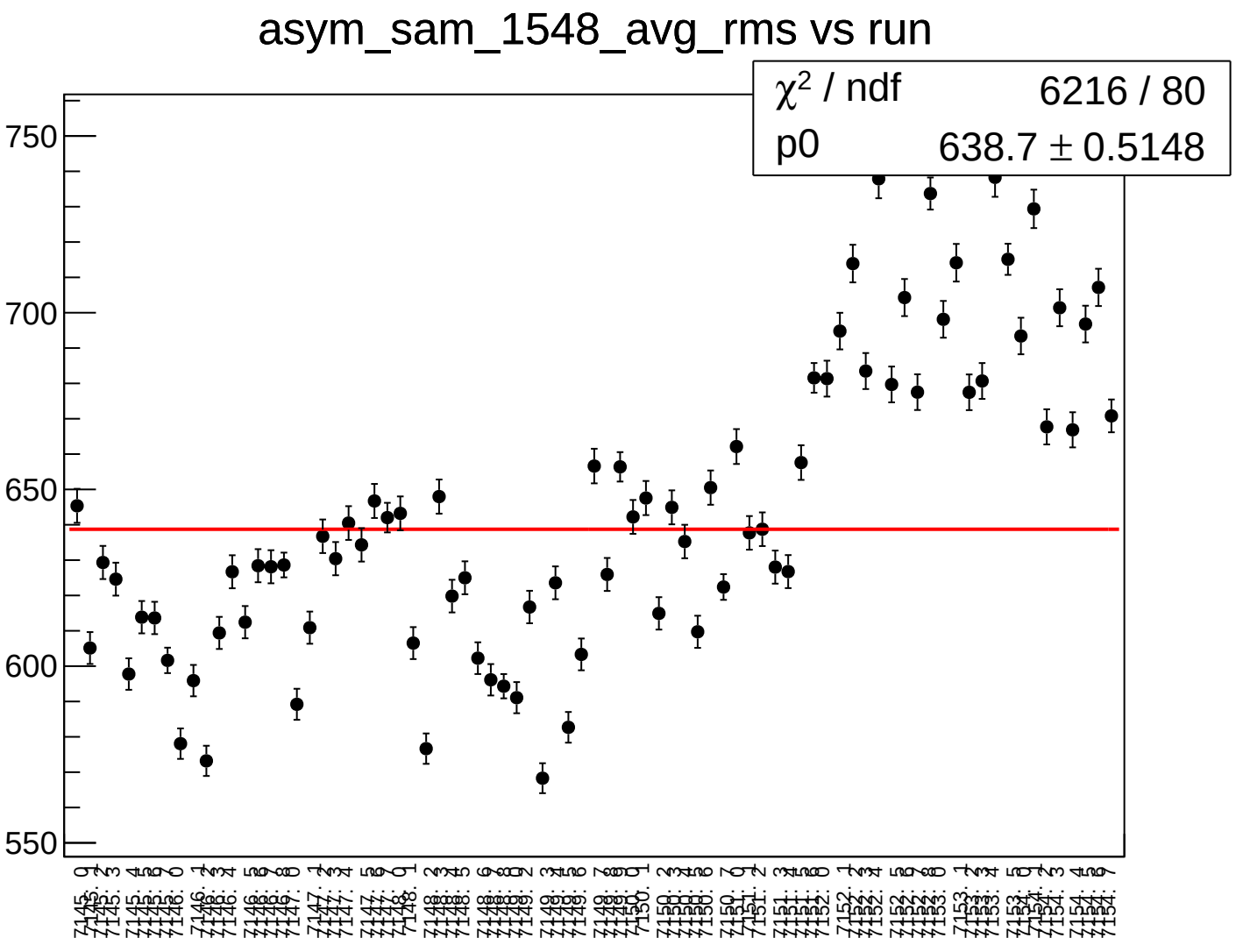

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 87.16 / 80
p0 −1836 ± 718.4
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 546.8
Std Dev 480.8
2
1
0
−1
−2

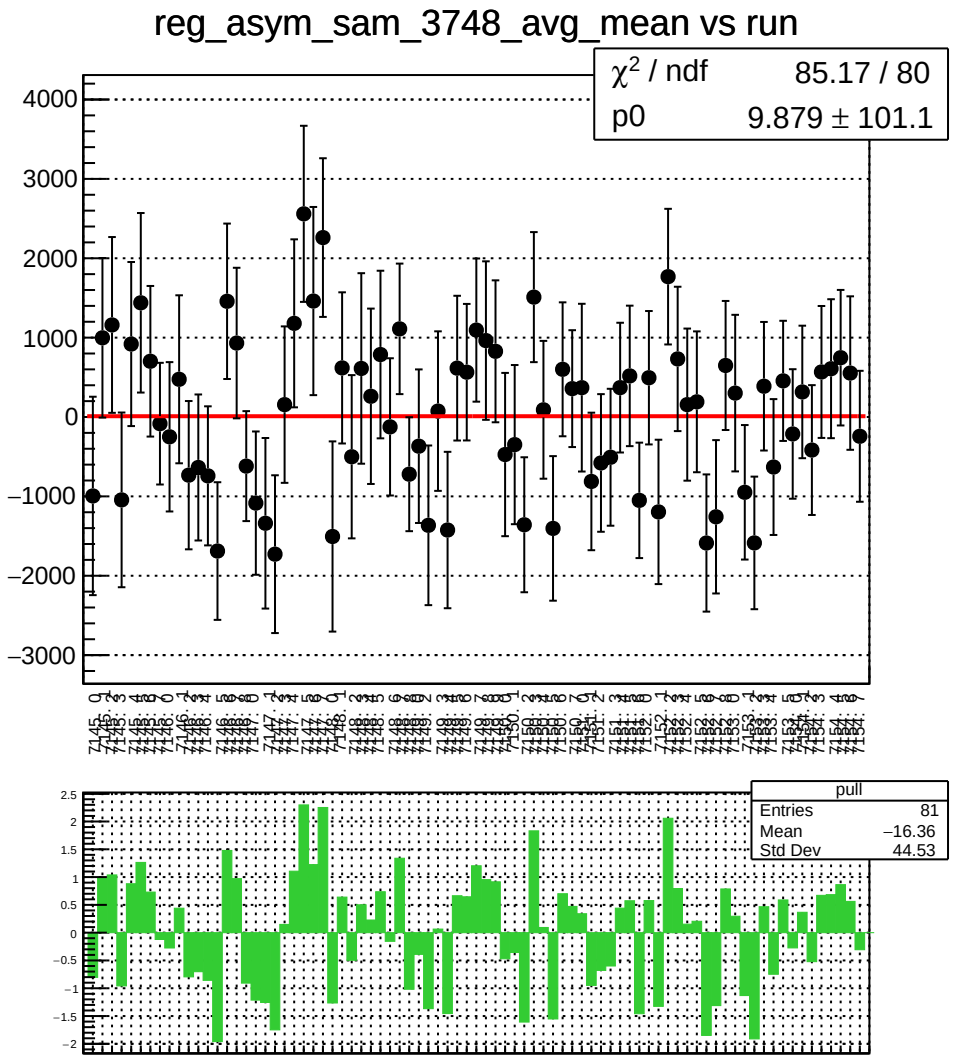

pull1D
Entries 81
Mean 0.002921
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

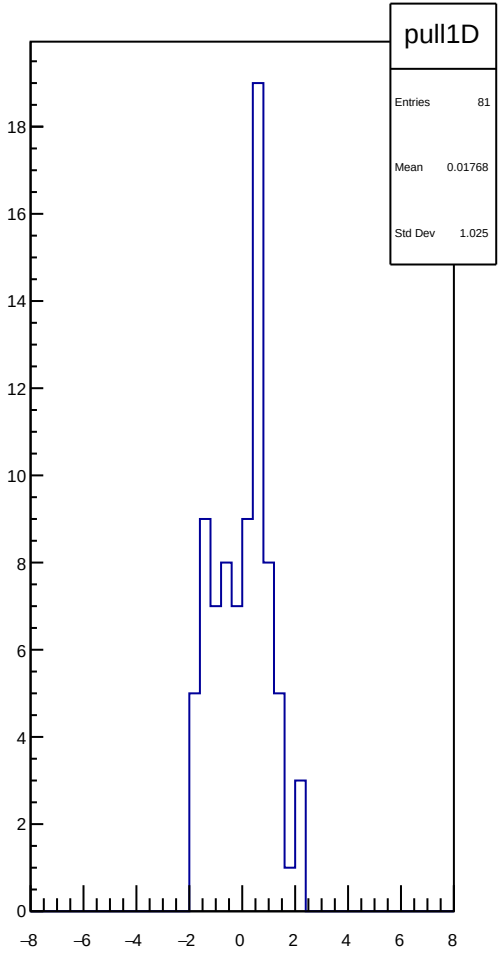

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 6639 / 80
p0 630.2 ± 0.508
750
700
650
600
550

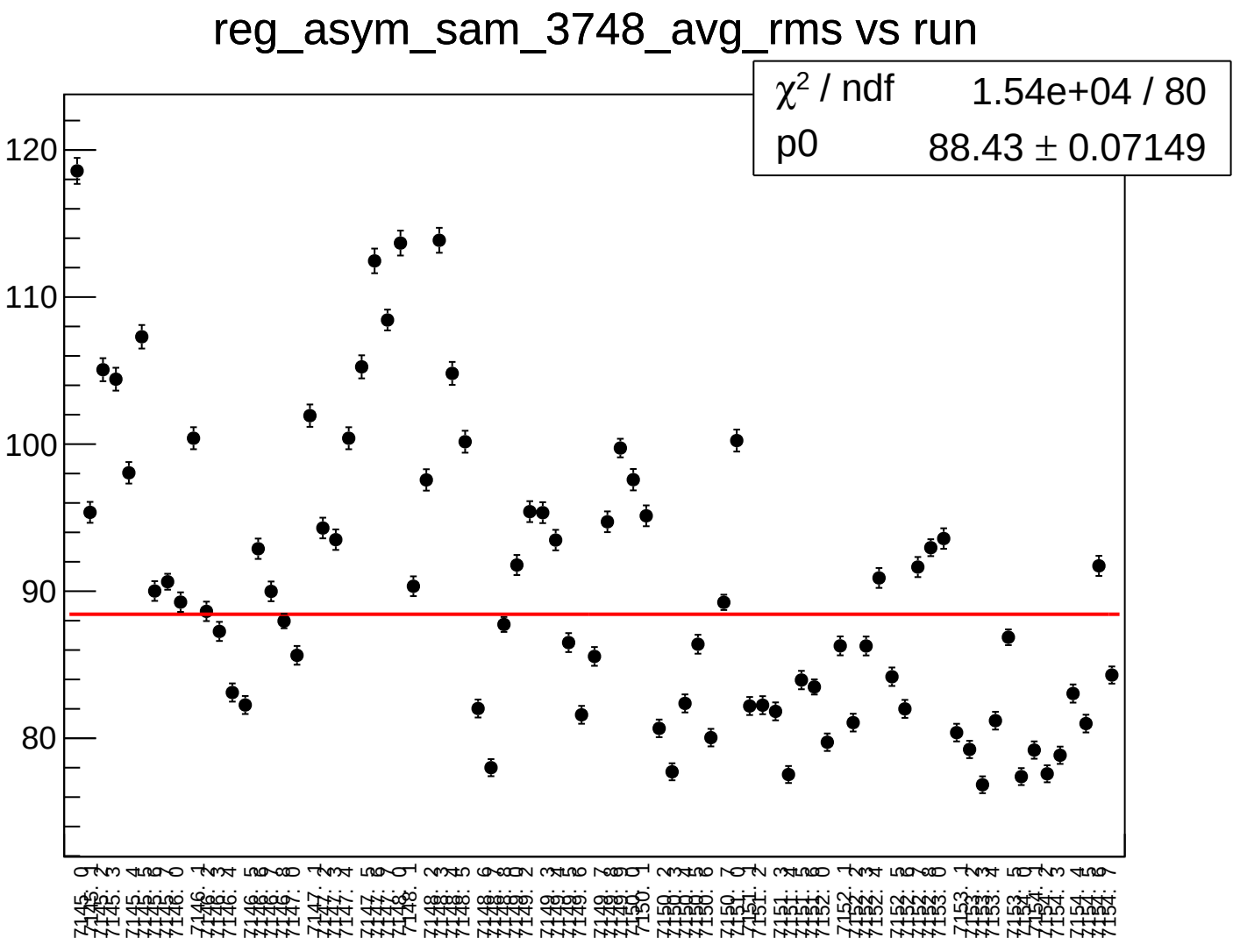

asym_sam_1548_avg_mean vs run
χ² / ndf 83.43 / 80
p0 1763 ± 728
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 971.5
Std Dev 909.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

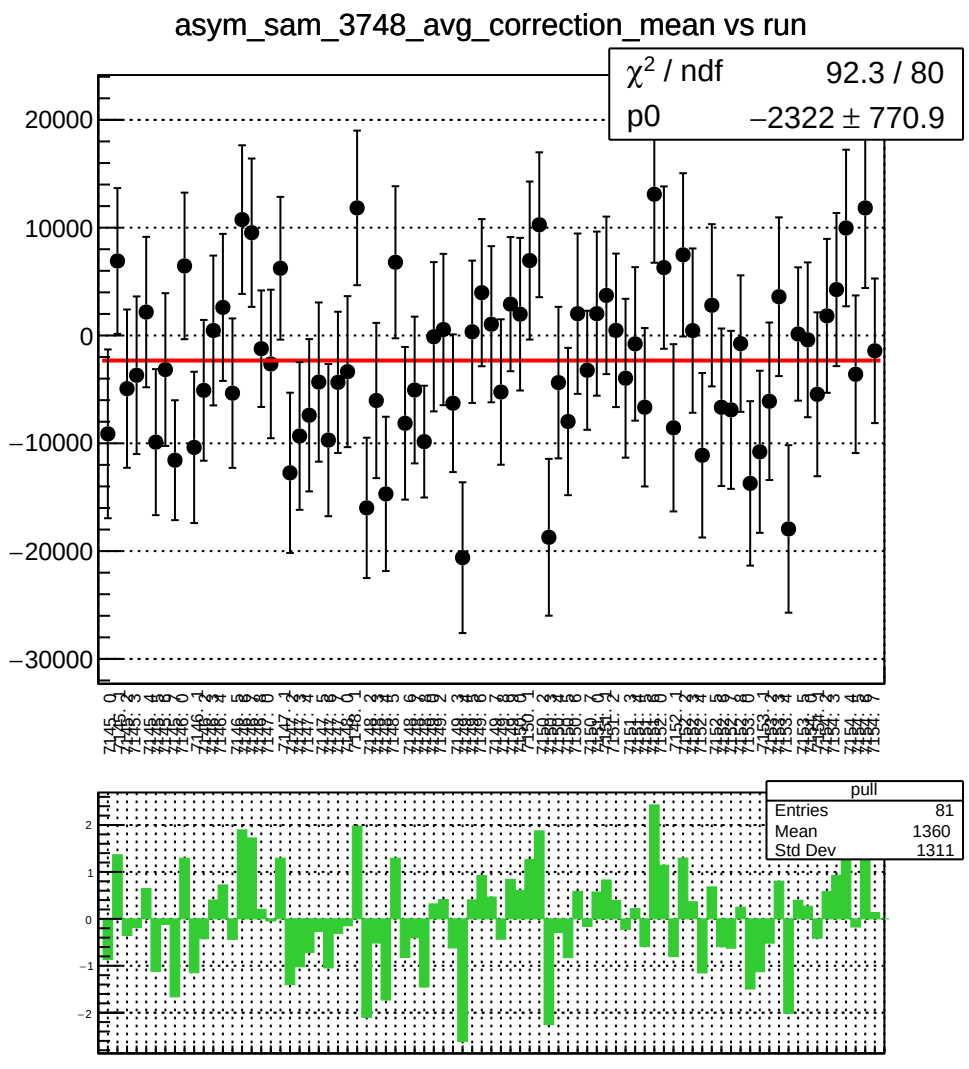

pull1D
Entries 81
Mean −0.001731
Std Dev 1.015
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

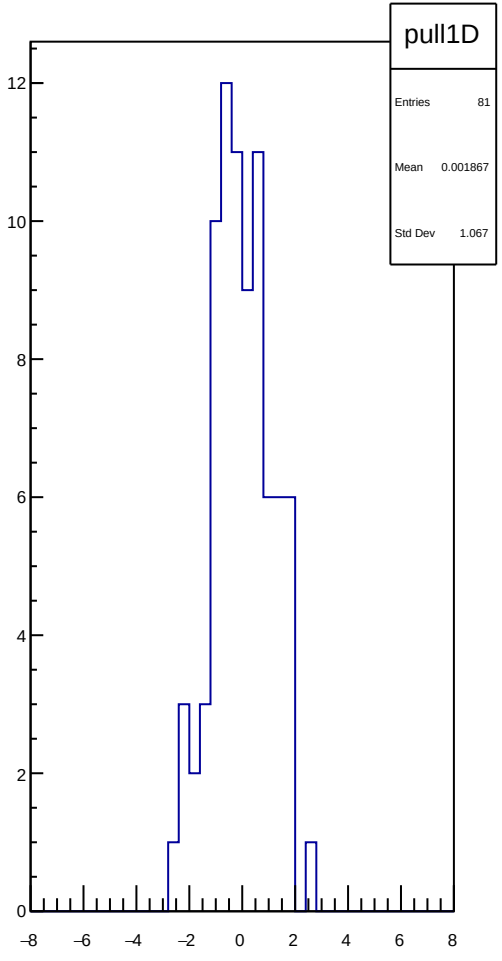

asym_sam_1548_avg_rms vs run
χ² / ndf 6216 / 80
p0 638.7 ± 0.5148
750
700
650
600
550

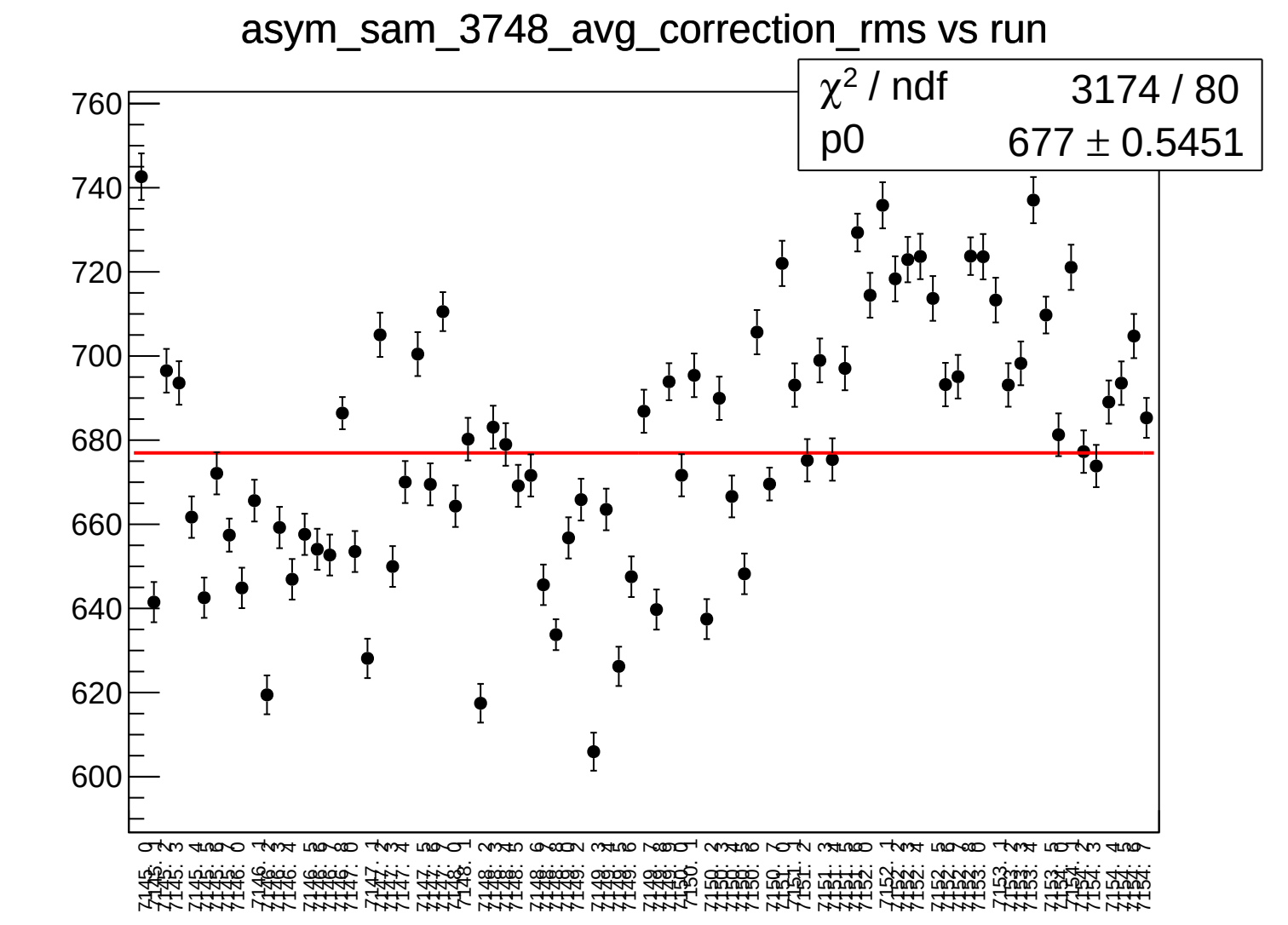

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 85.17 / 80
p0 9.879 ± 101.1
pull
Entries 81
Mean −16.36
Std Dev 44.53

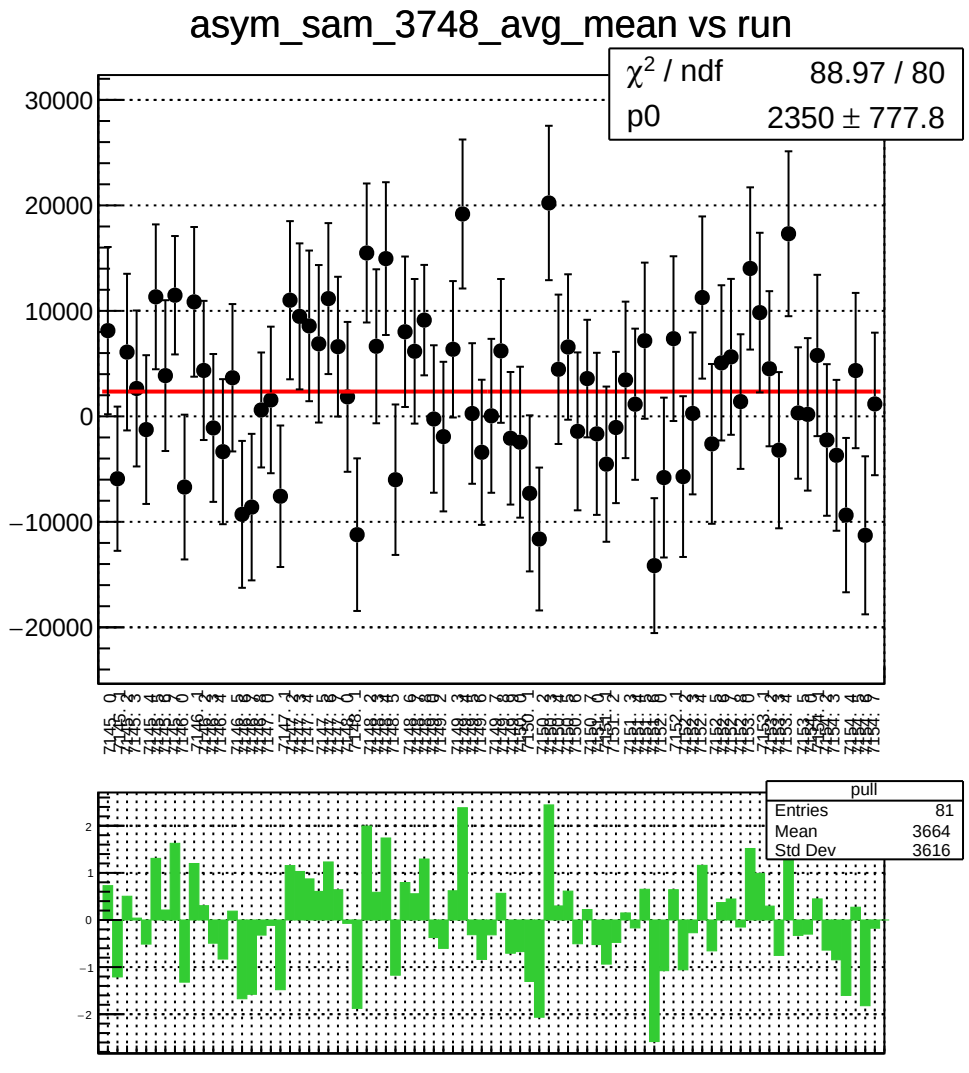

pull1D
Entries 81
Mean 0.01768
Std Dev 1.025

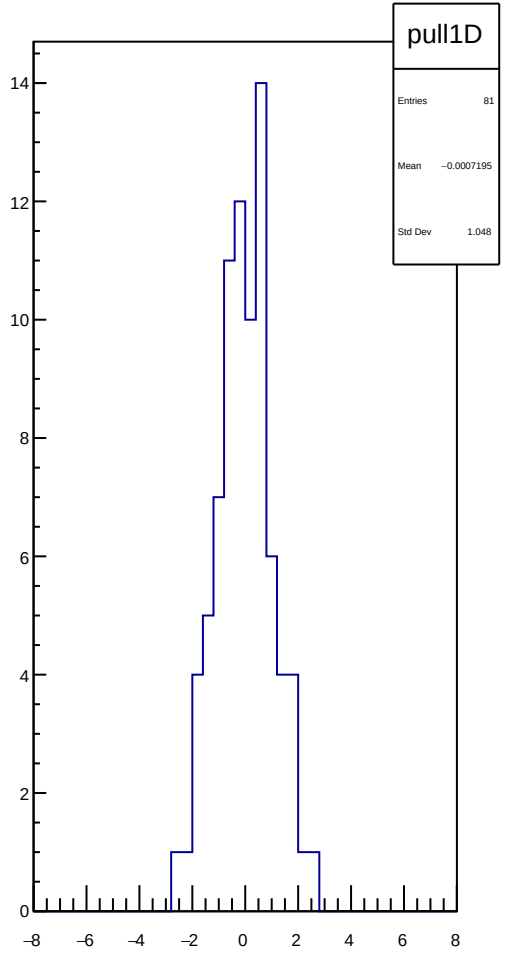

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 1.54e+04 / 80
p0 88.43 ± 0.07149
120
110
100
90
80

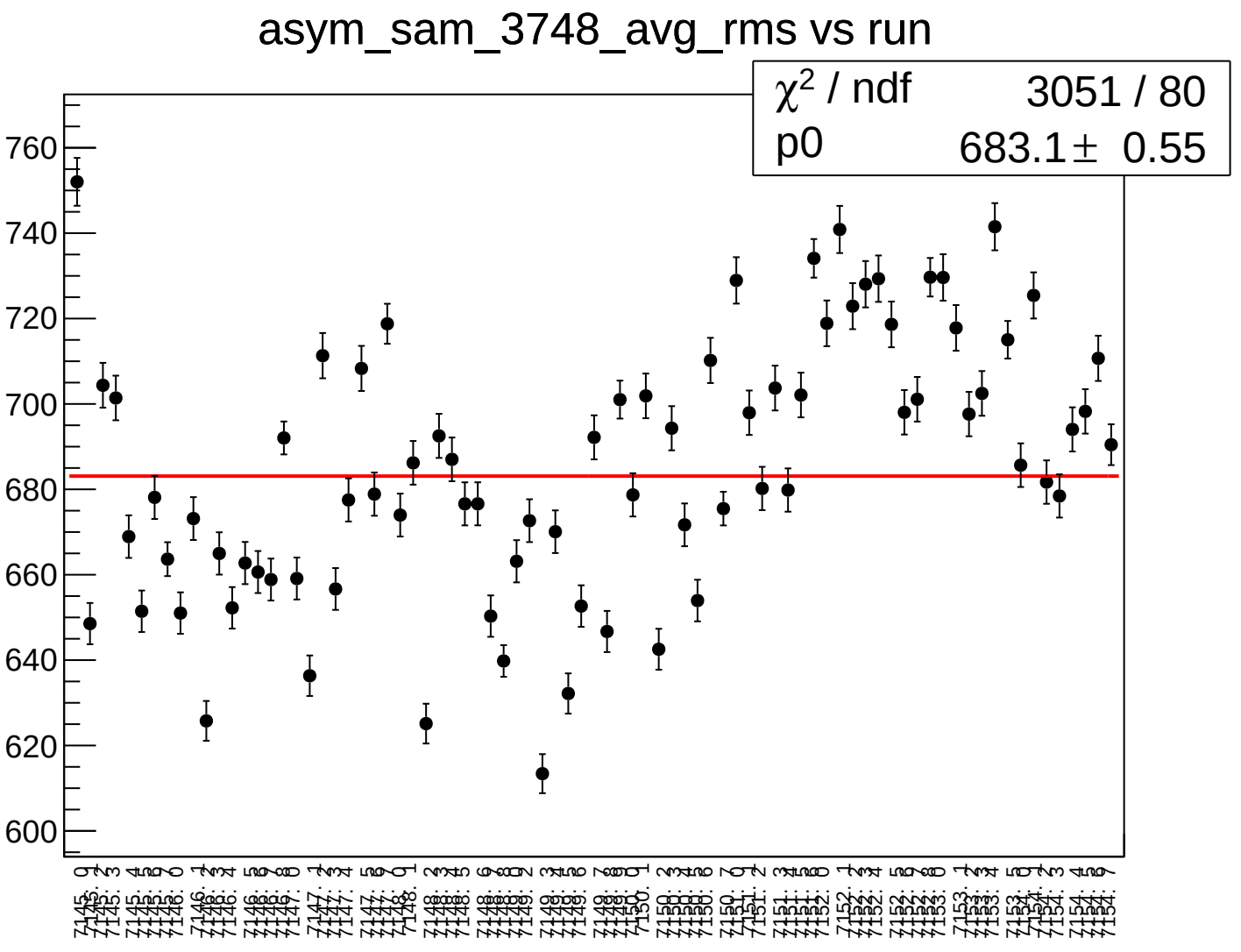

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 92.3 / 80
p0 −2322 ± 770.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 1360
Std Dev 1311
2
1
0
−1
−2

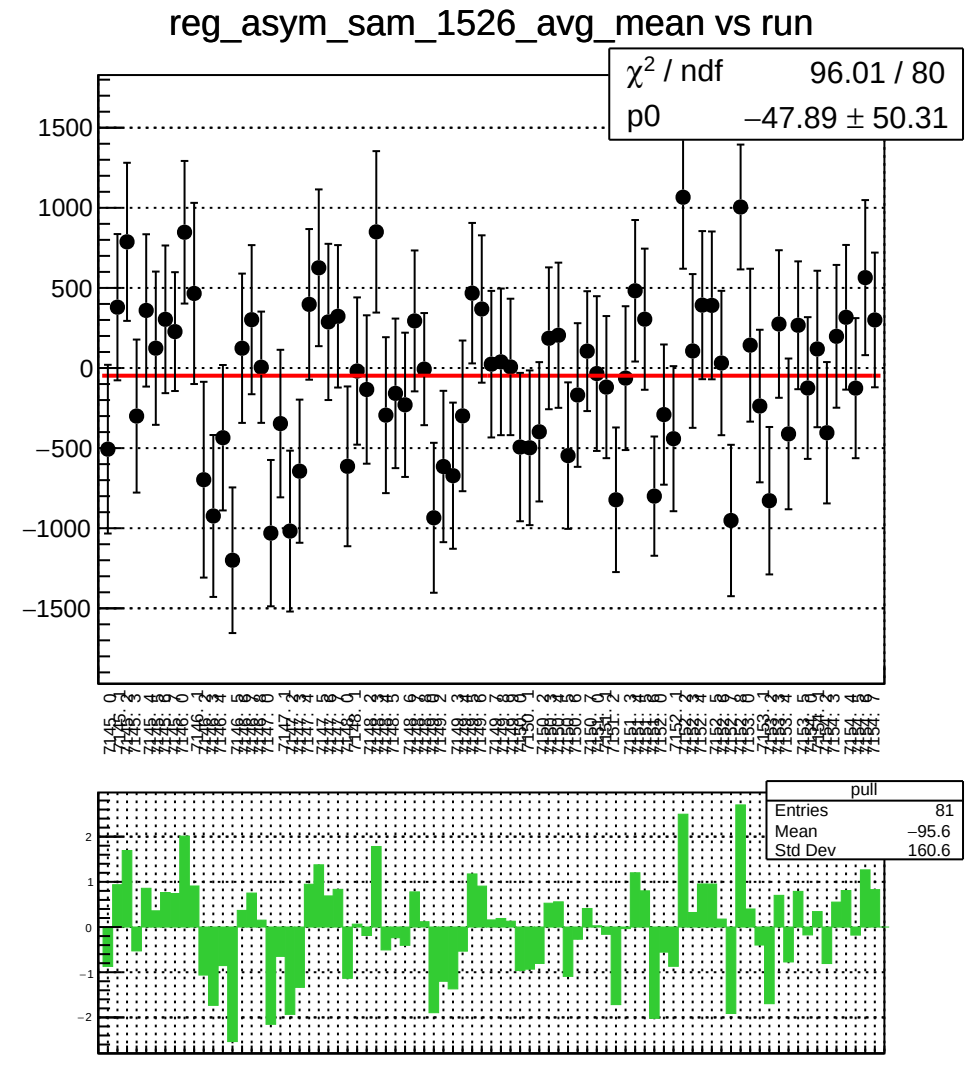

pull1D
Entries 81
Mean 0.001867
Std Dev 1.067
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

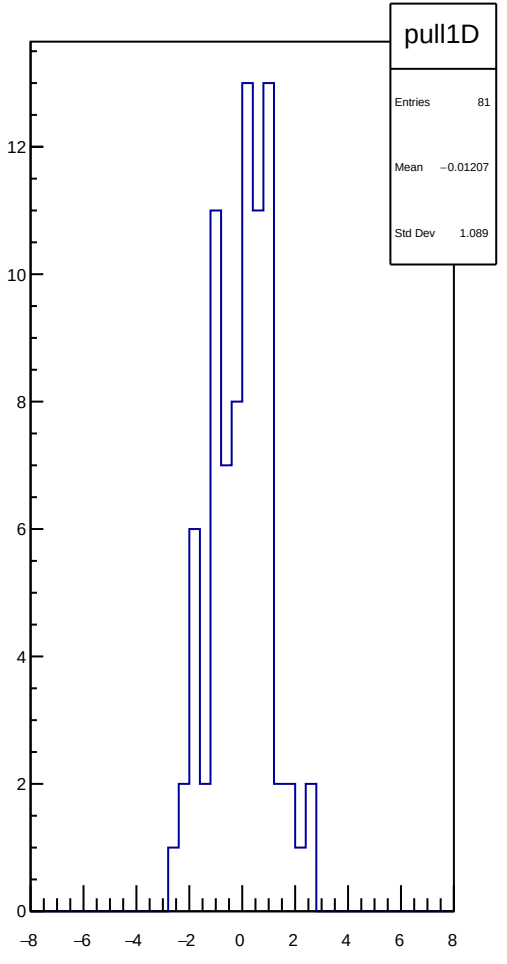

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 3174 / 80
p0 677 ± 0.5451
760
740
720
700
680
660
640
620
600

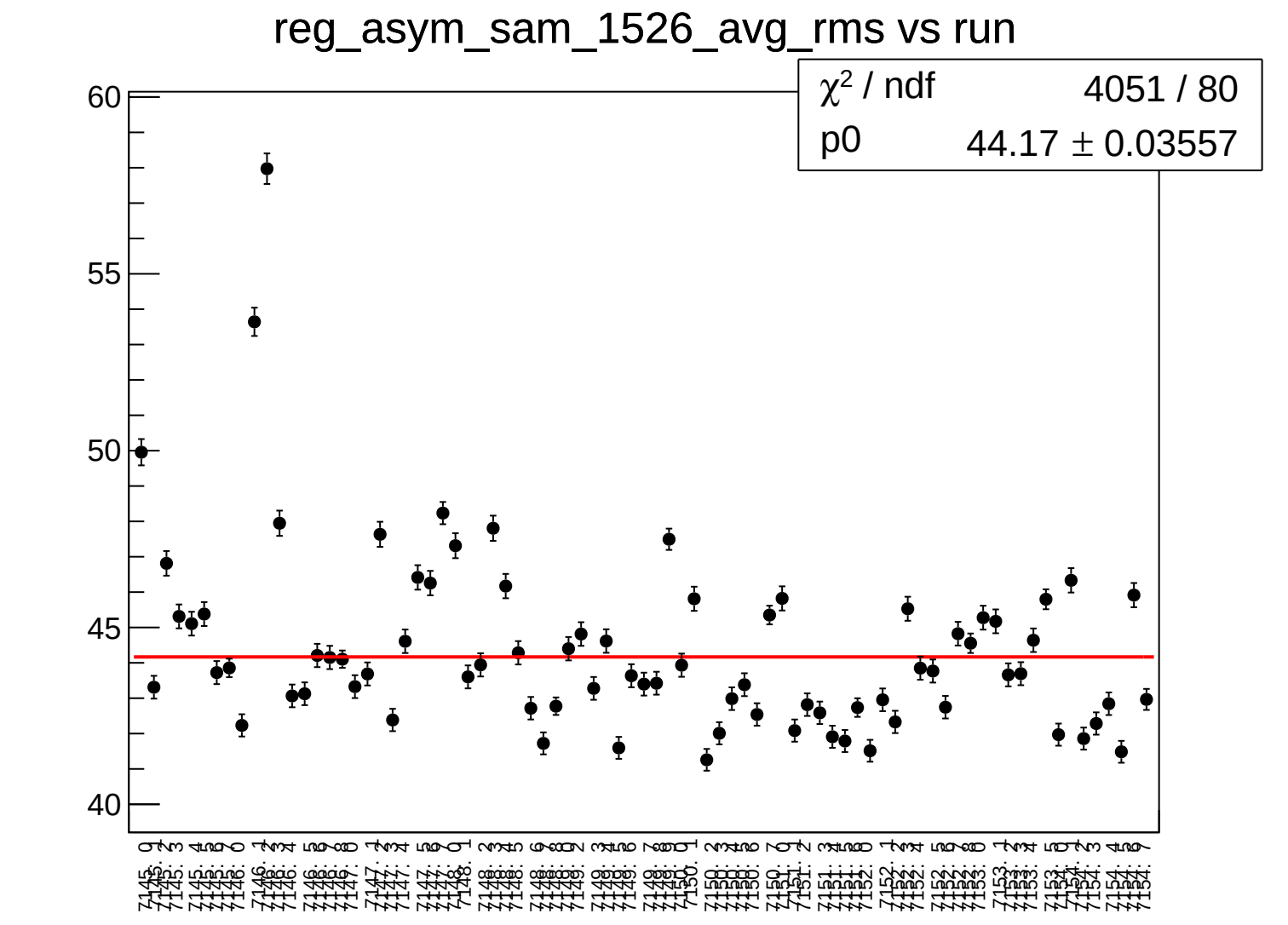

asym_sam_3748_avg_mean vs run
χ² / ndf 88.97 / 80
p0 2350 ± 777.8
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 3664
Std Dev 3616
2
1
0
−1
−2

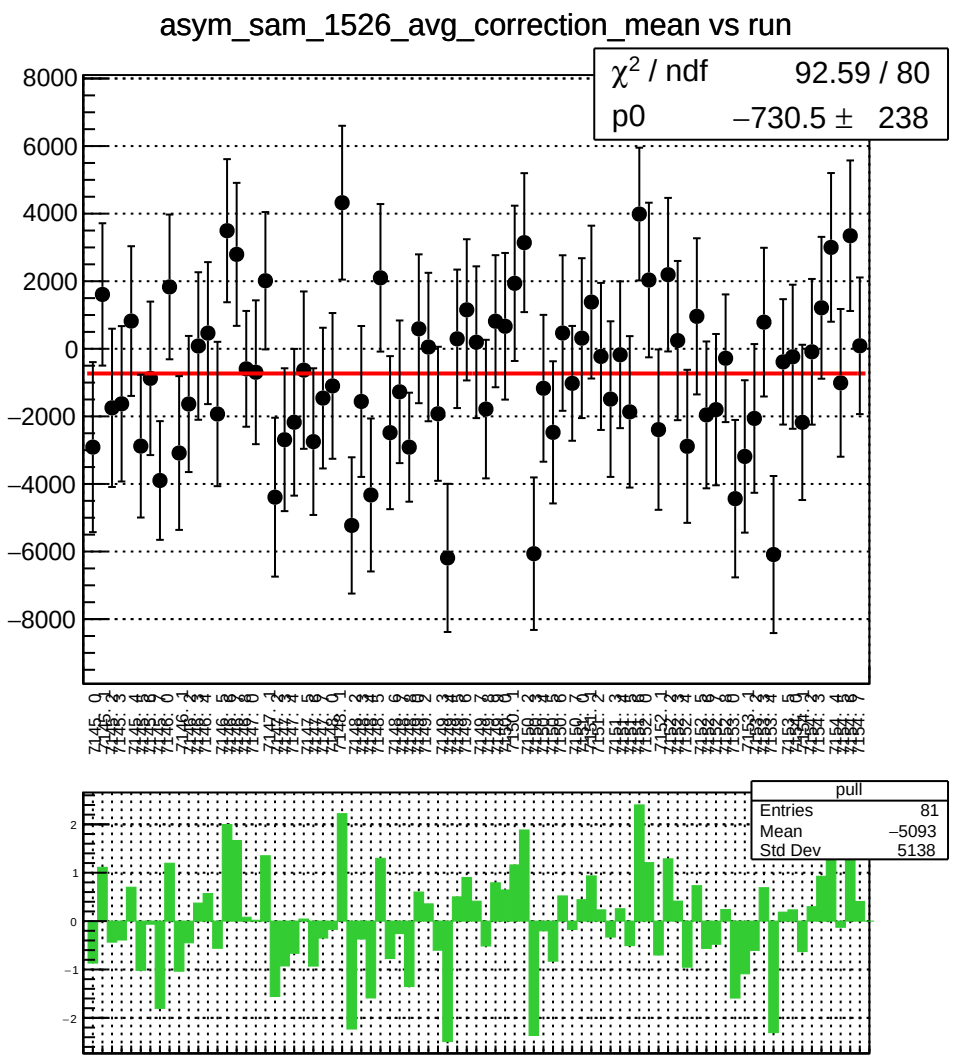

pull1D
Entries 81
Mean −0.0007195
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

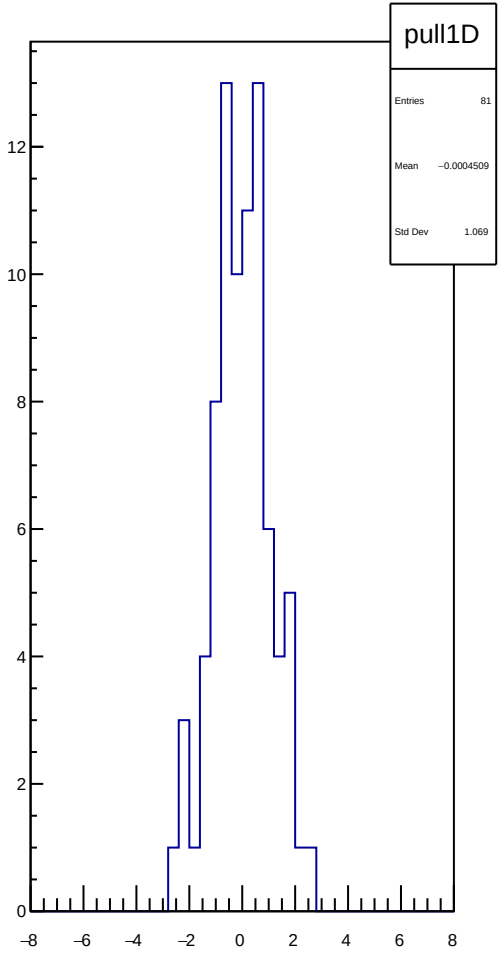

asym_sam_3748_avg_rms vs run
χ² / ndf 3051 / 80
p0 683.1 ± 0.55
760
740
720
700
680
660
640
620
600

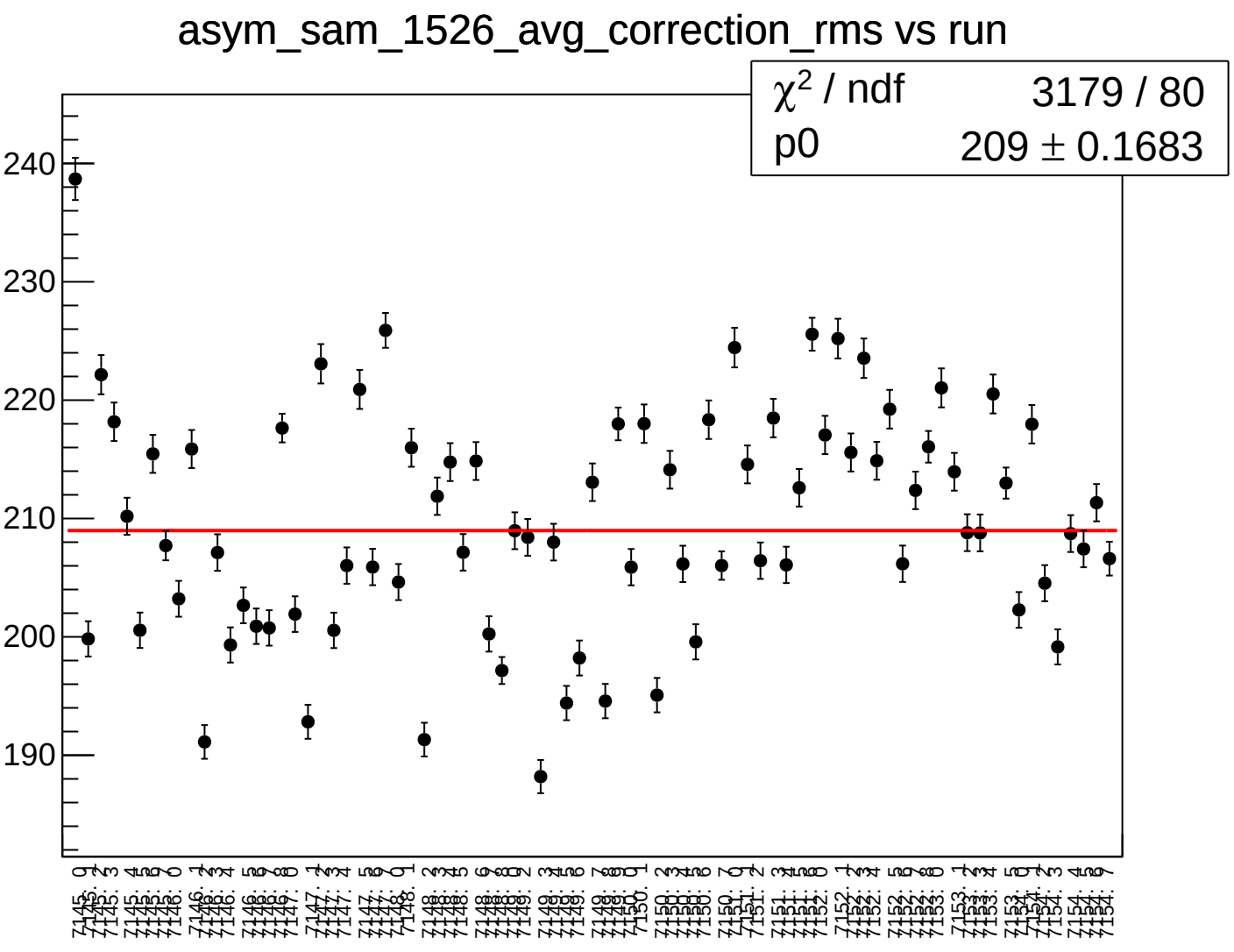

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 96.01 / 80
p0 −47.89 ± 50.31
pull
Entries 81
Mean −95.6
Std Dev 160.6

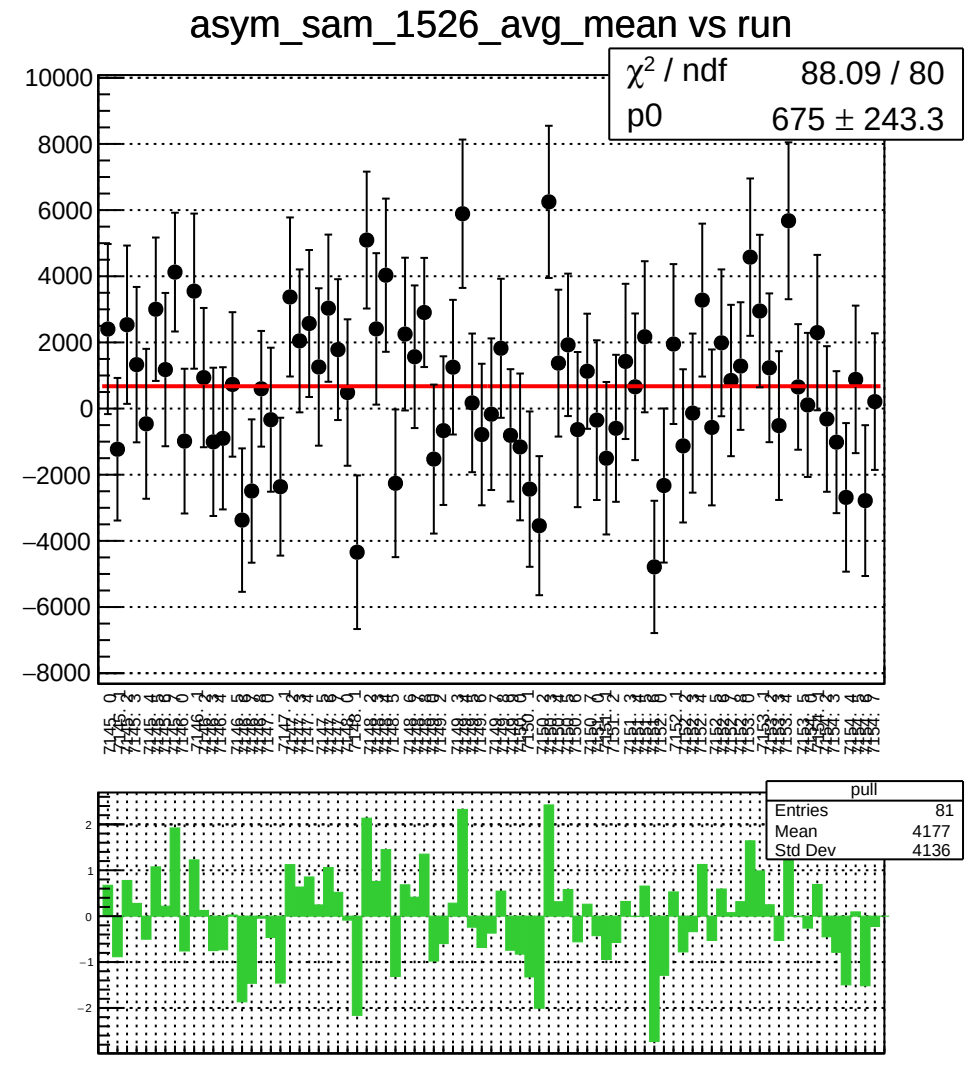

pull1D
Entries 81
Mean −0.01207
Std Dev 1.089

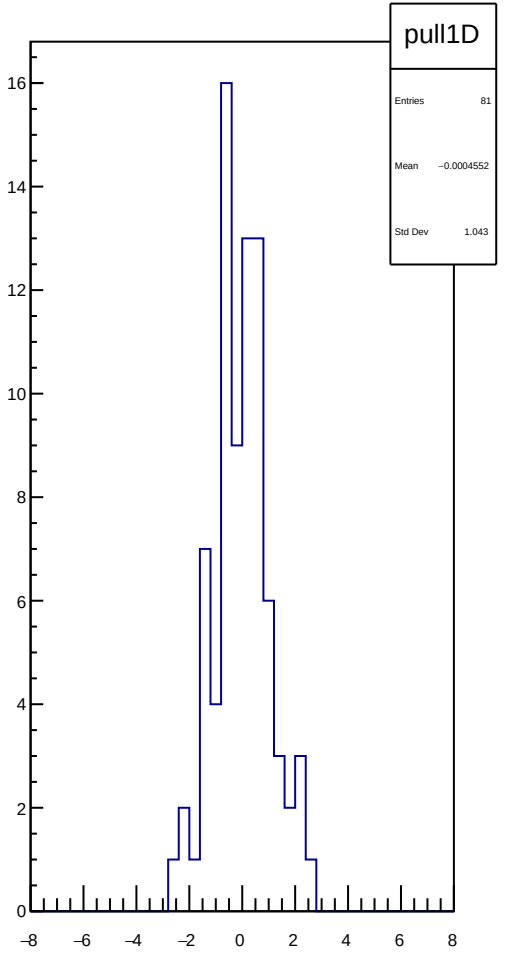

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 4051 / 80
p0 44.17 ± 0.03557
60
55
50
45
40

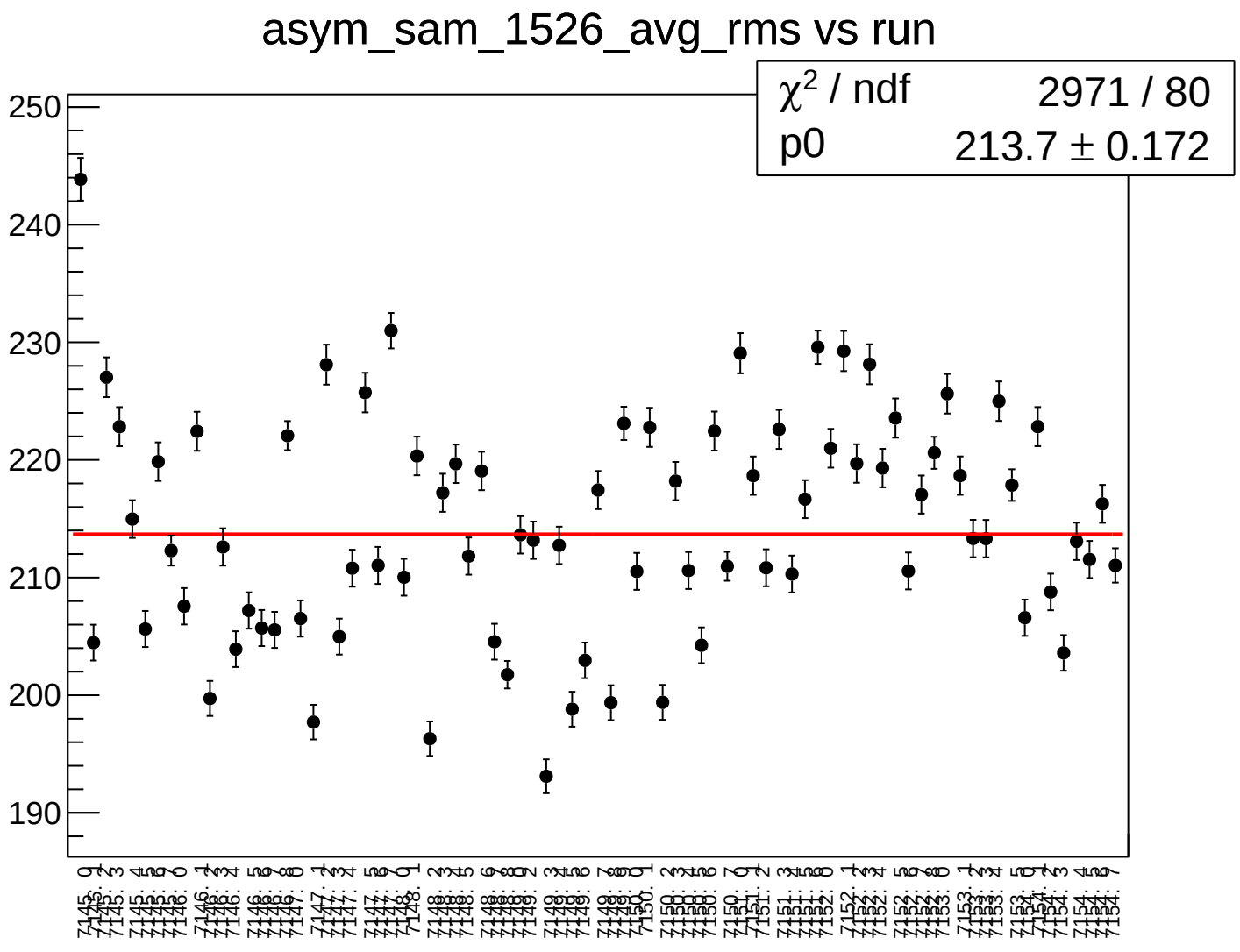

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 92.59 / 80
p0 −730.5 ± 238
pull
Entries 81
Mean −5093
Std Dev 5138

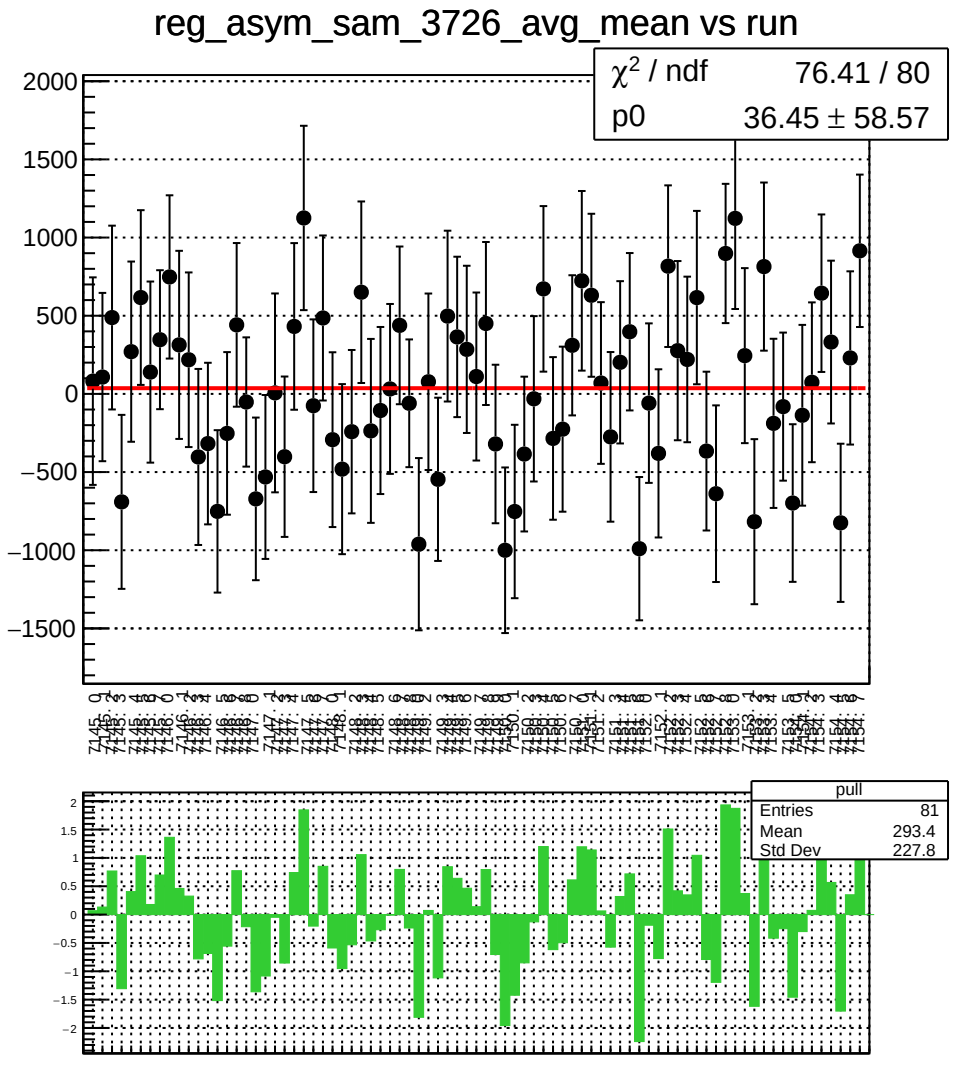

pull1D
Entries 81
Mean −0.0004509
Std Dev 1.069

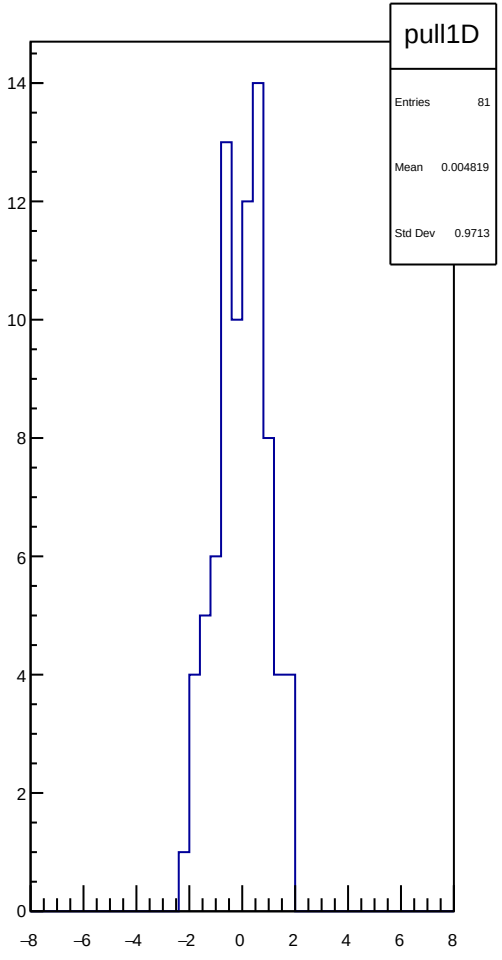

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 3179 / 80
p0 209 ± 0.1683
240
230
220
210
200
190

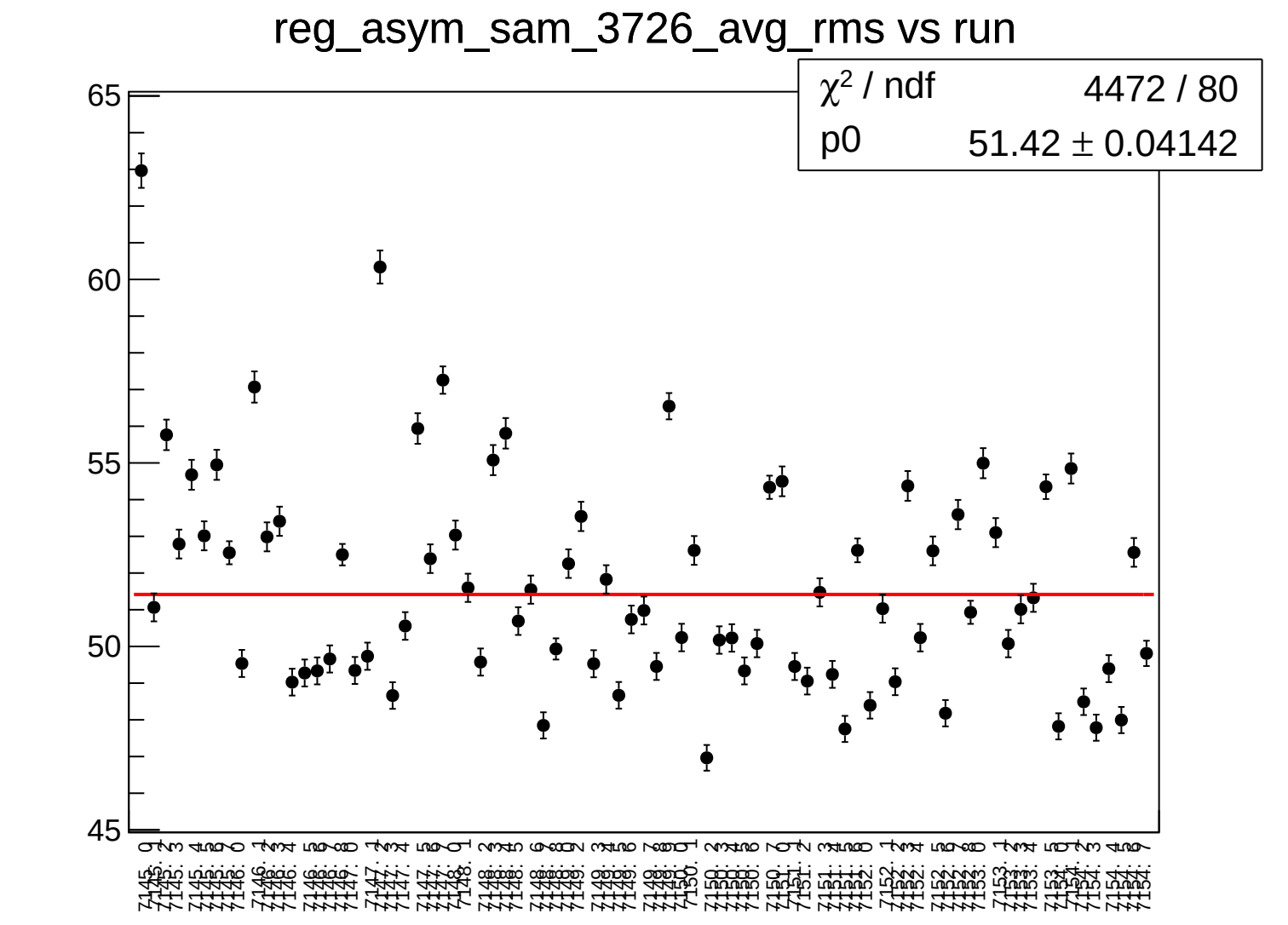

asym_sam_1526_avg_mean vs run
χ² / ndf 88.09 / 80
p0 675 ± 243.3
pull
Entries 81
Mean 4177
Std Dev 4136

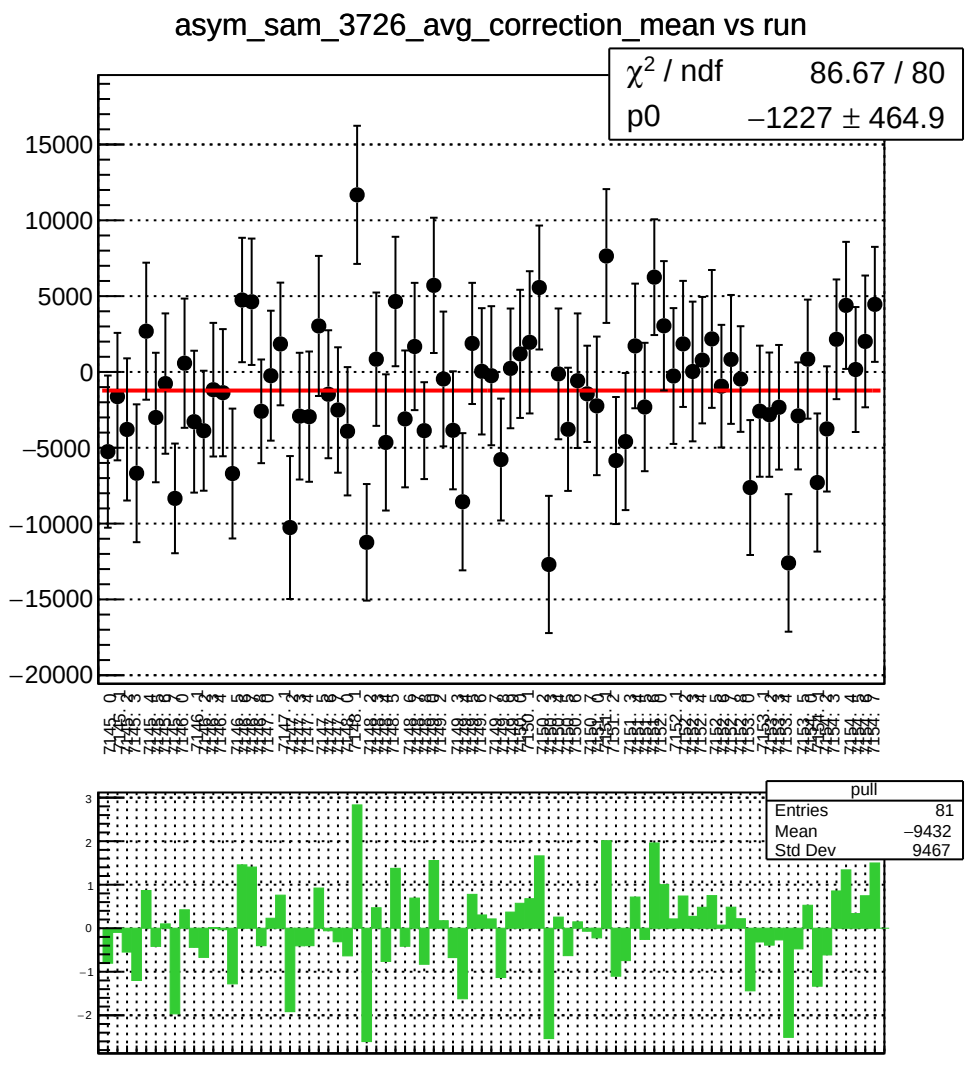

pull1D
Entries 81
Mean −0.0004552
Std Dev 1.043

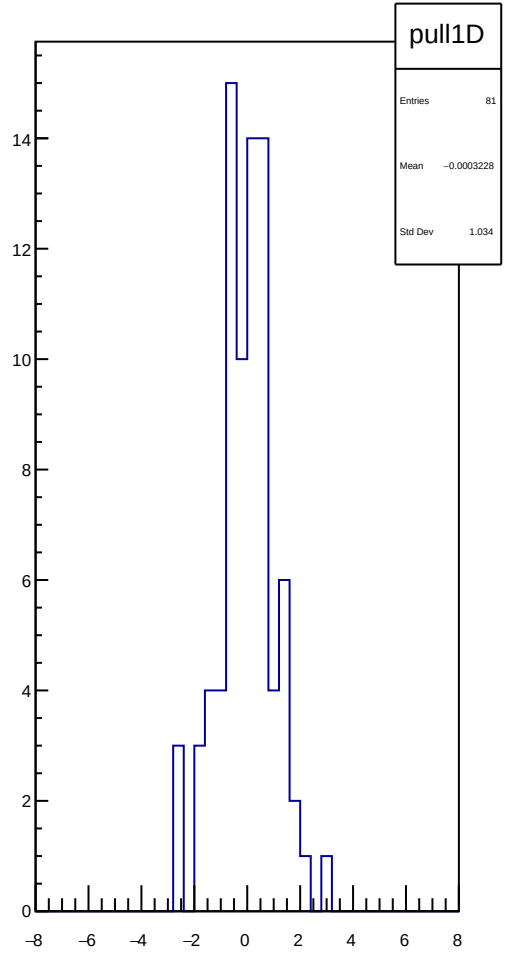

asym_sam_1526_avg_rms vs run
χ² / ndf 2971 / 80
p0 213.7 ± 0.172
250
240
230
220
210
200
190

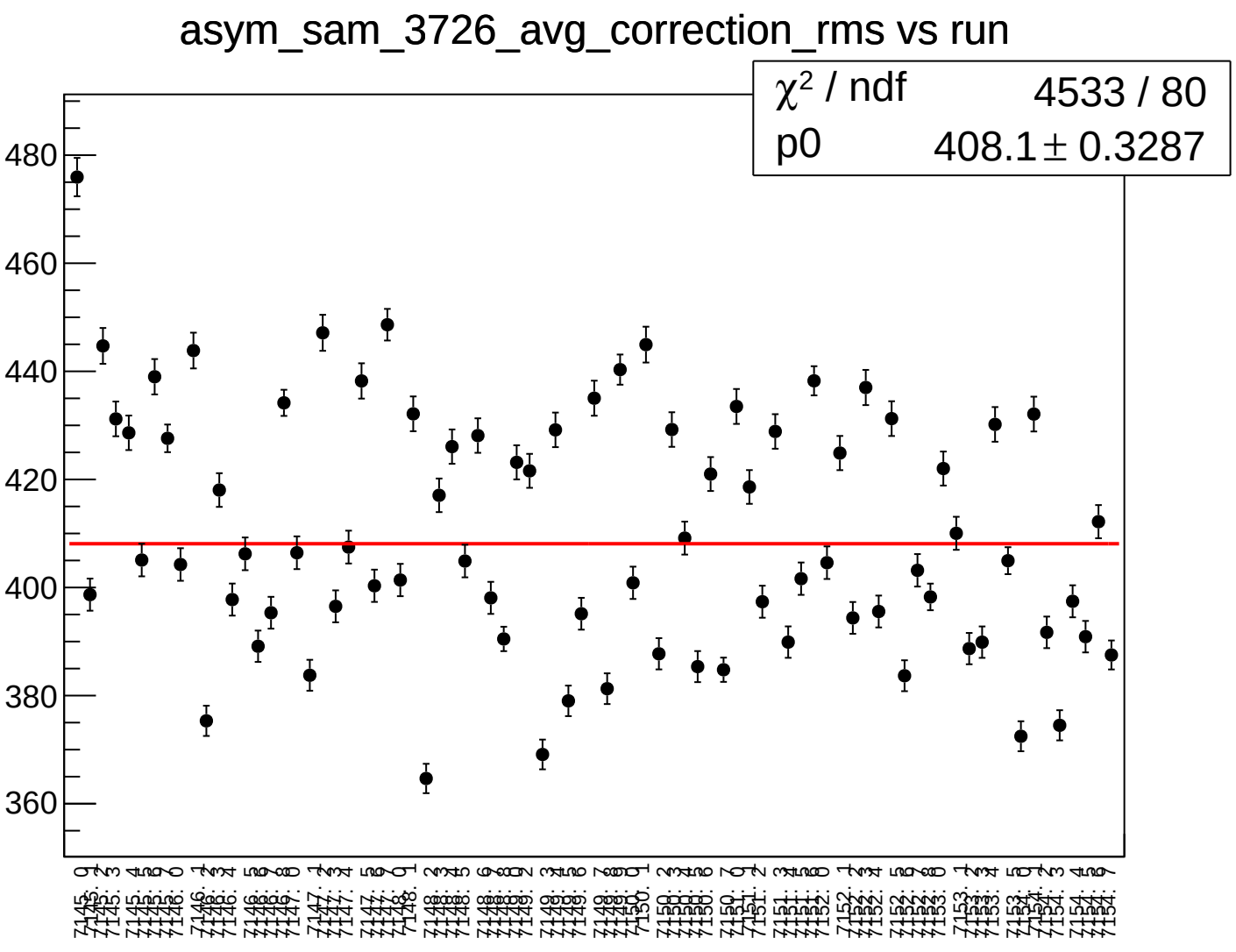

reg_asym_sam_3726_avg_mean vs run
χ^2 / ndf 76.41 / 80
p0 36.45 ± 58.57
pull
Entries 81
Mean 293.4
Std Dev 227.8

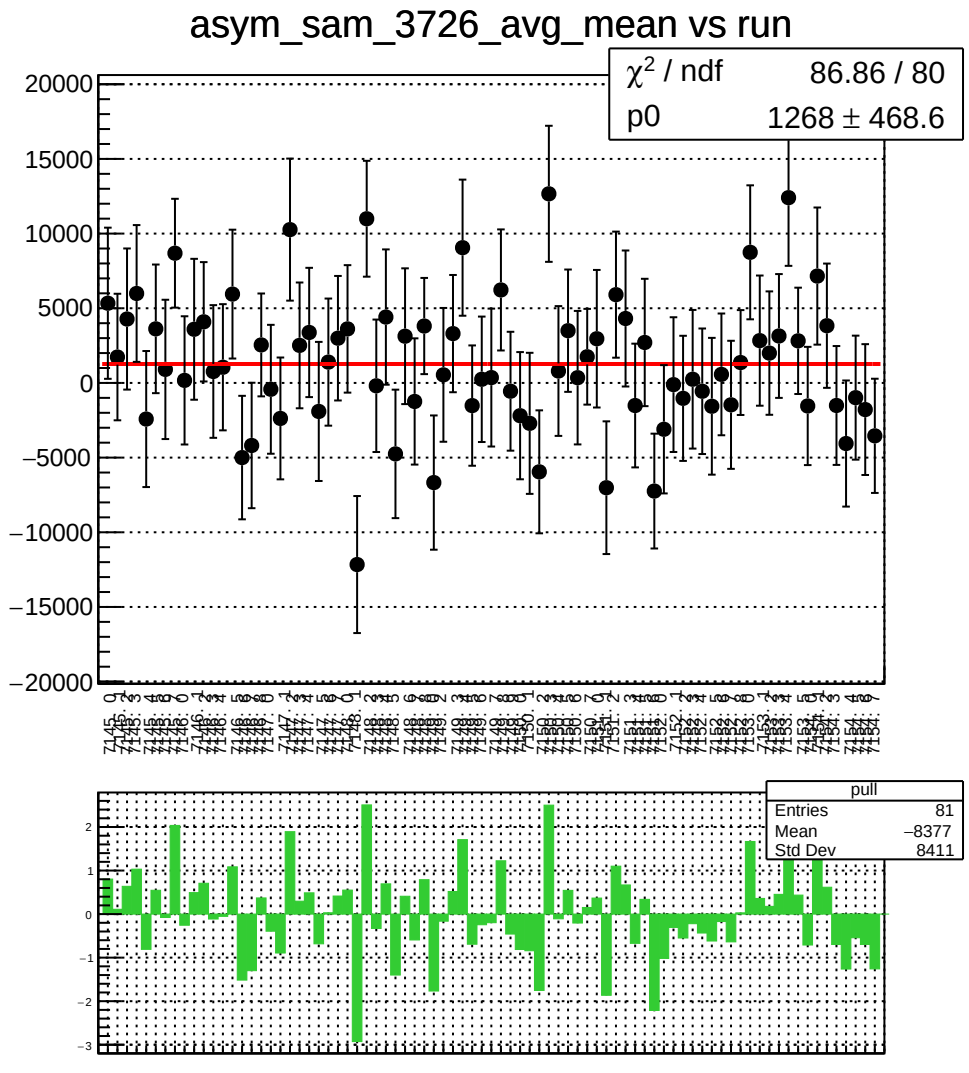

pull1D
Entries 81
Mean 0.004819
Std Dev 0.9713

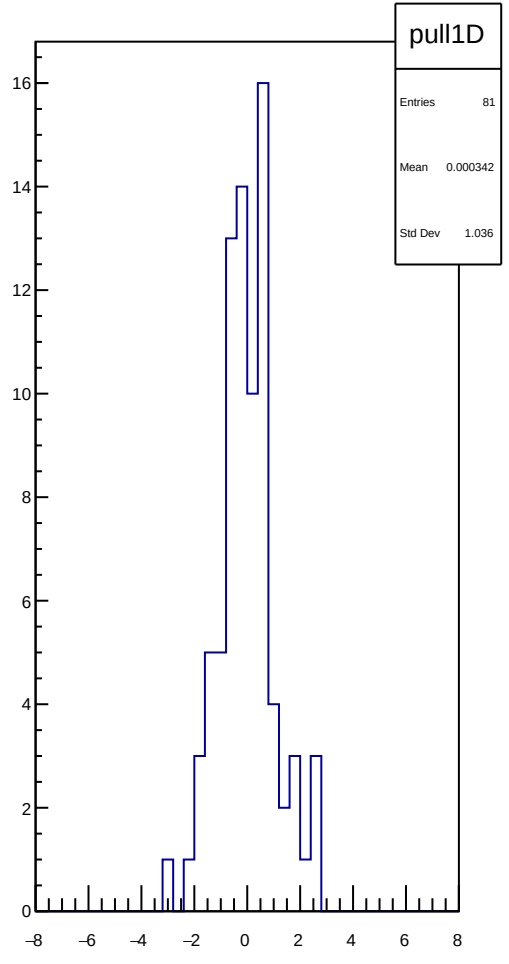

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 4472 / 80
p0 51.42 ± 0.04142
65
60
55
50
45

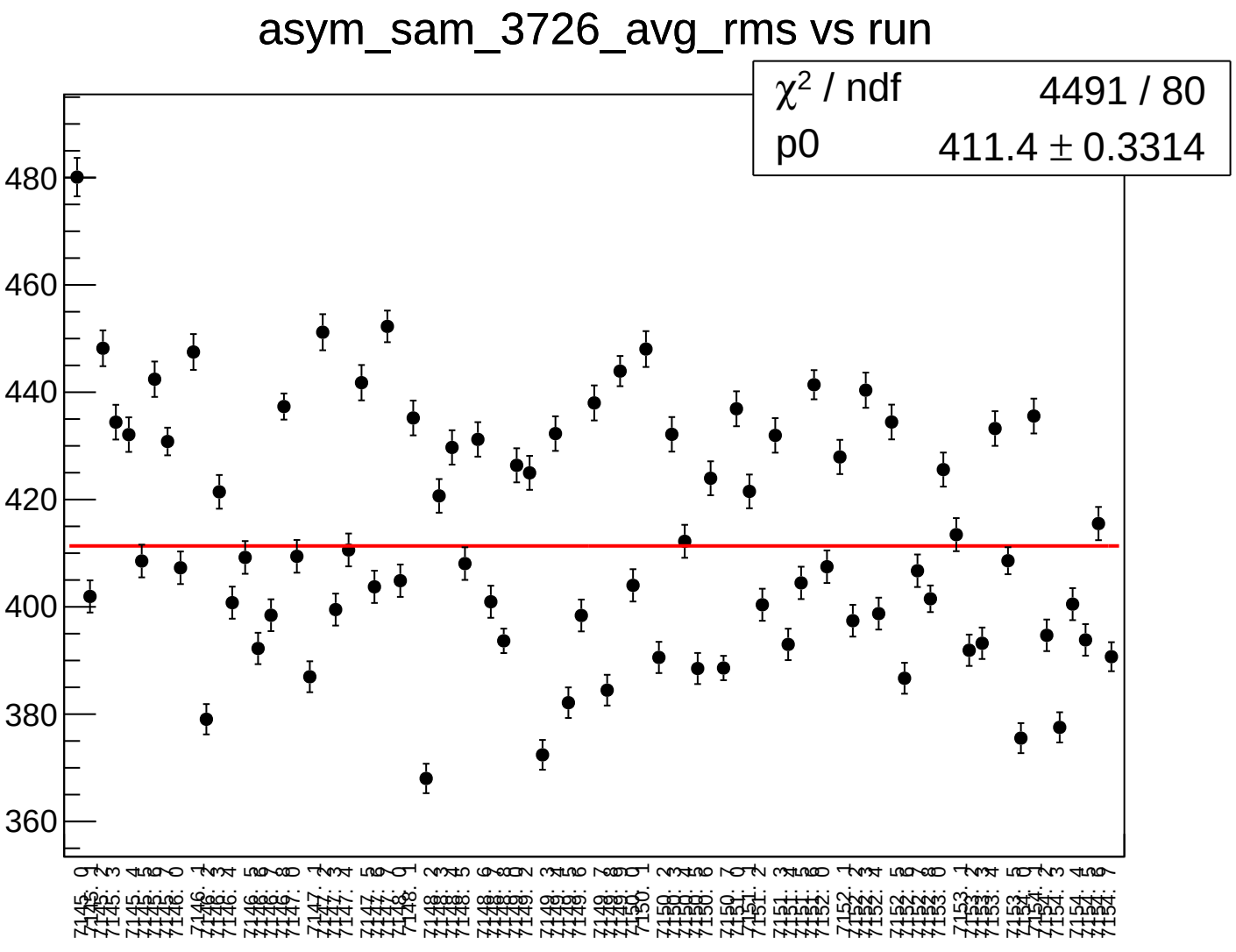

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 86.67 / 80
p0 −1227 ± 464.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 81
Mean −9432
Std Dev 9467
3
2
1
0
−1
−2

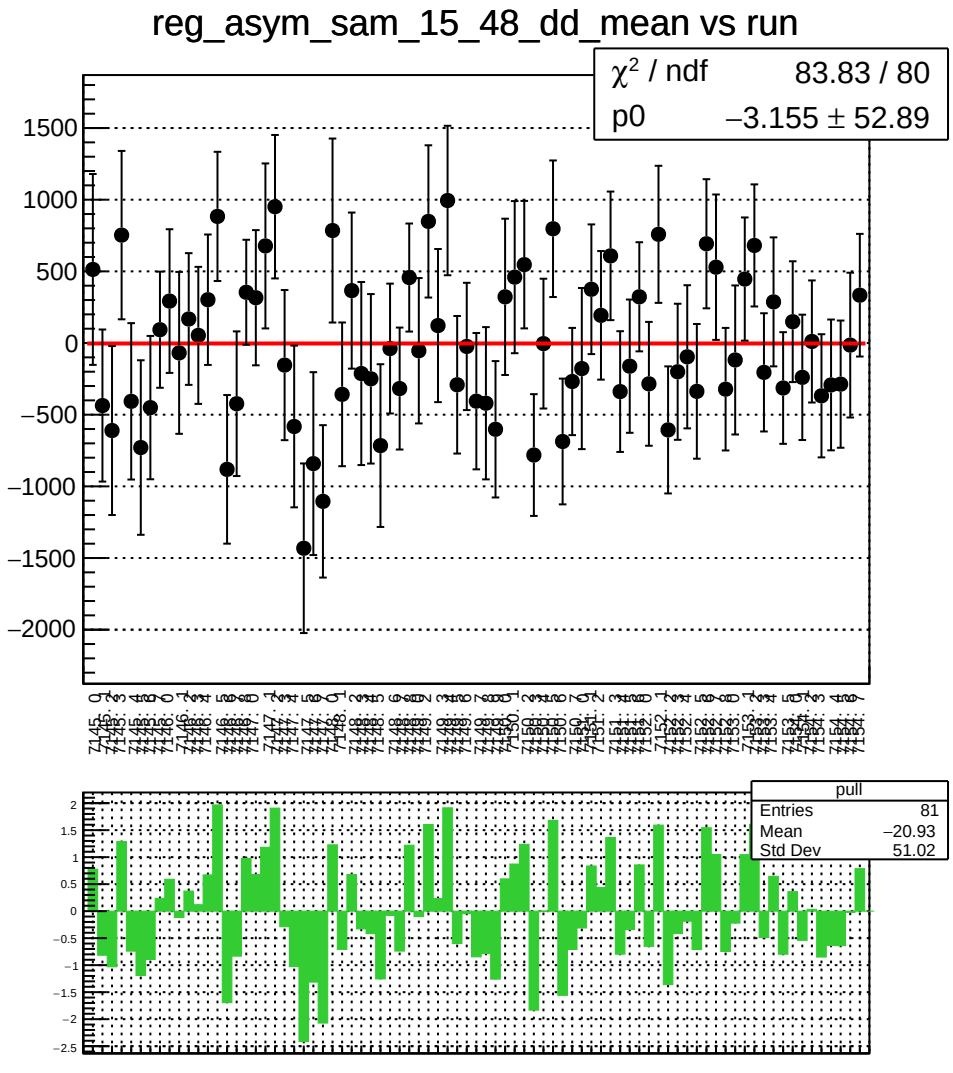

pull1D
Entries 81
Mean −0.0003228
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

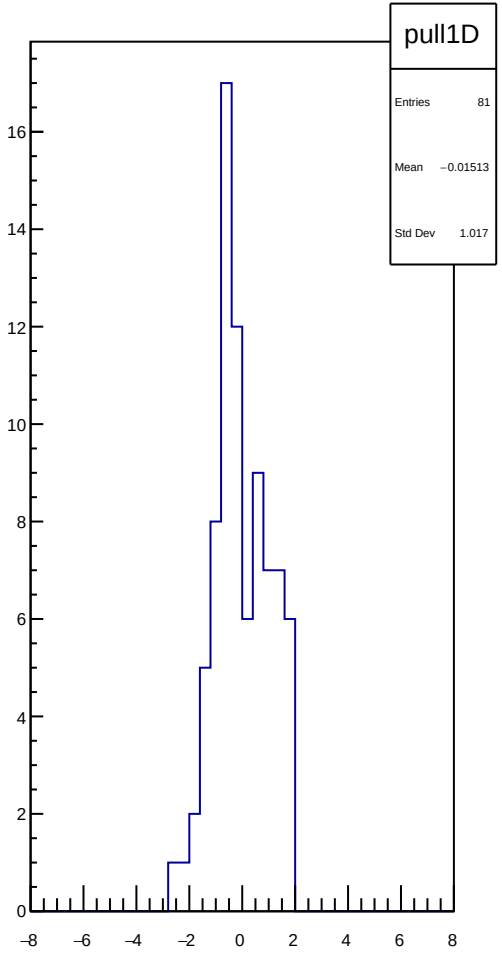

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 4533 / 80
p0 408.1 ± 0.3287
480
460
440
420
400
380
360

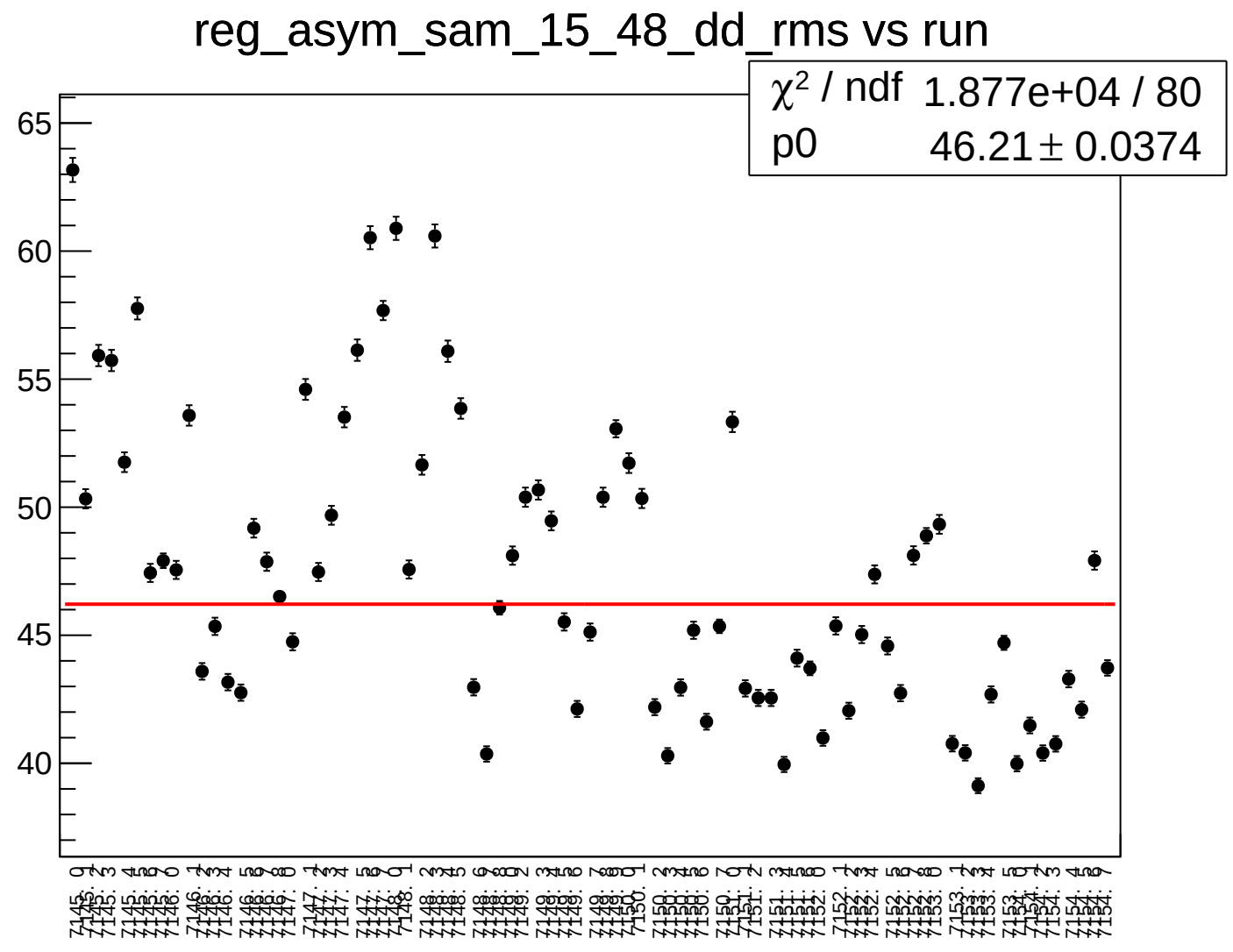

asym_sam_3726_avg_mean vs run
χ² / ndf 86.86 / 80
p0 1268 ± 468.6
pull
Entries 81
Mean −8377
Std Dev 8411

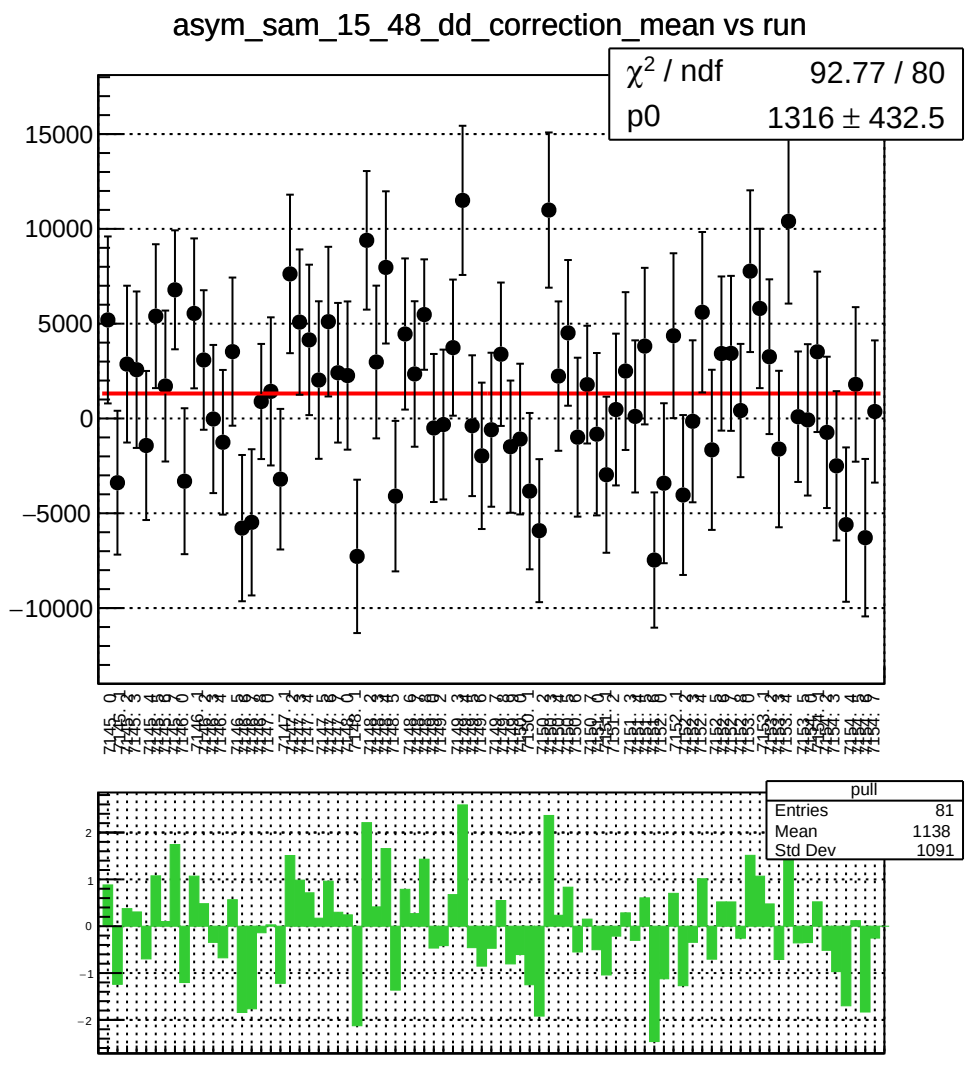

pull1D
Entries 81
Mean 0.000342
Std Dev 1.036

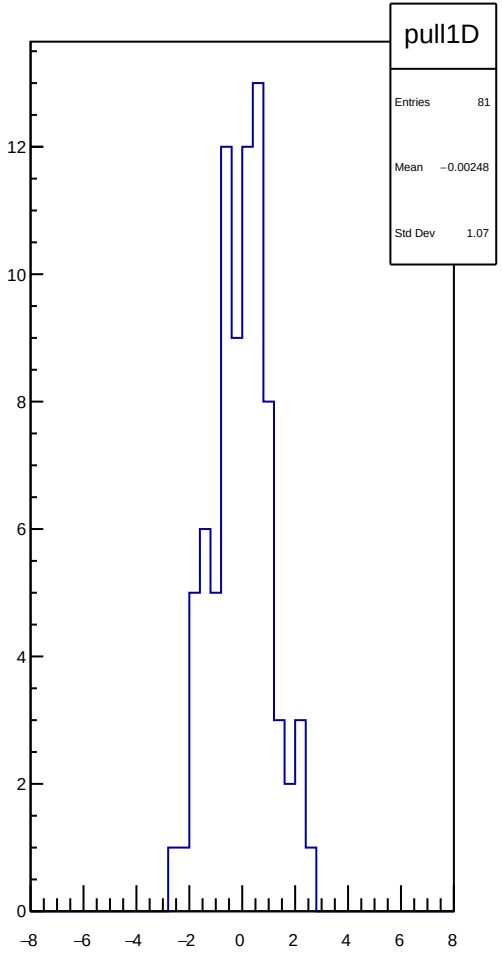

asym_sam_3726_avg_rms vs run
χ² / ndf 4491 / 80
p0 411.4 ± 0.3314
480
460
440
420
400
380
360

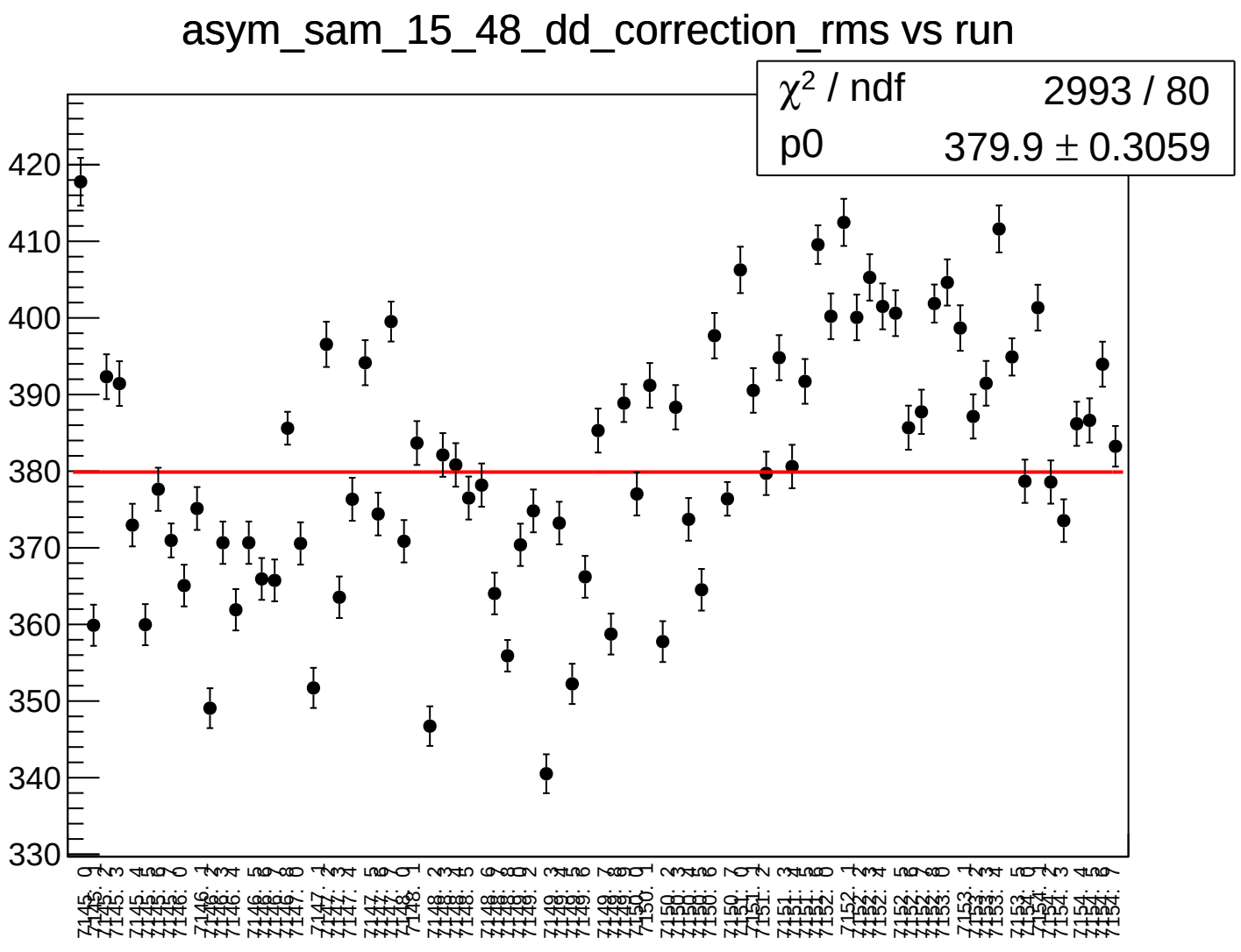

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 83.83 / 80
p0 −3.155 ± 52.89
pull
Entries 81
Mean −20.93
Std Dev 51.02

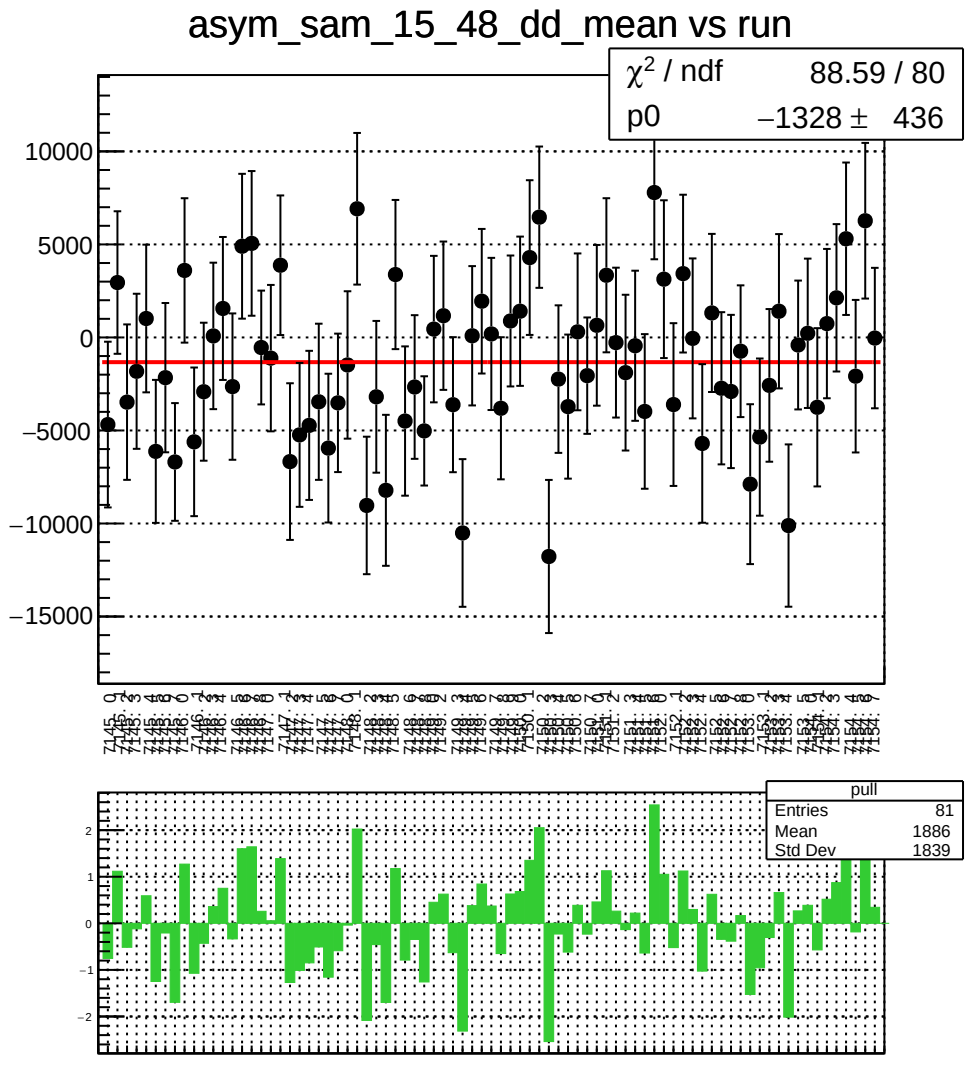

pull1D
Entries 81
Mean −0.01513
Std Dev 1.017

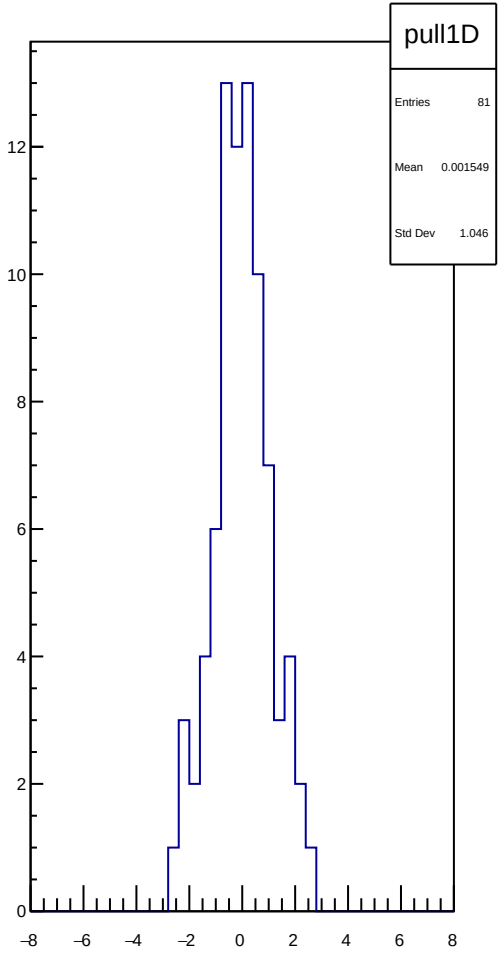

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.877e+04 / 80
p0 46.21 ± 0.0374
65
60
55
50
45
40

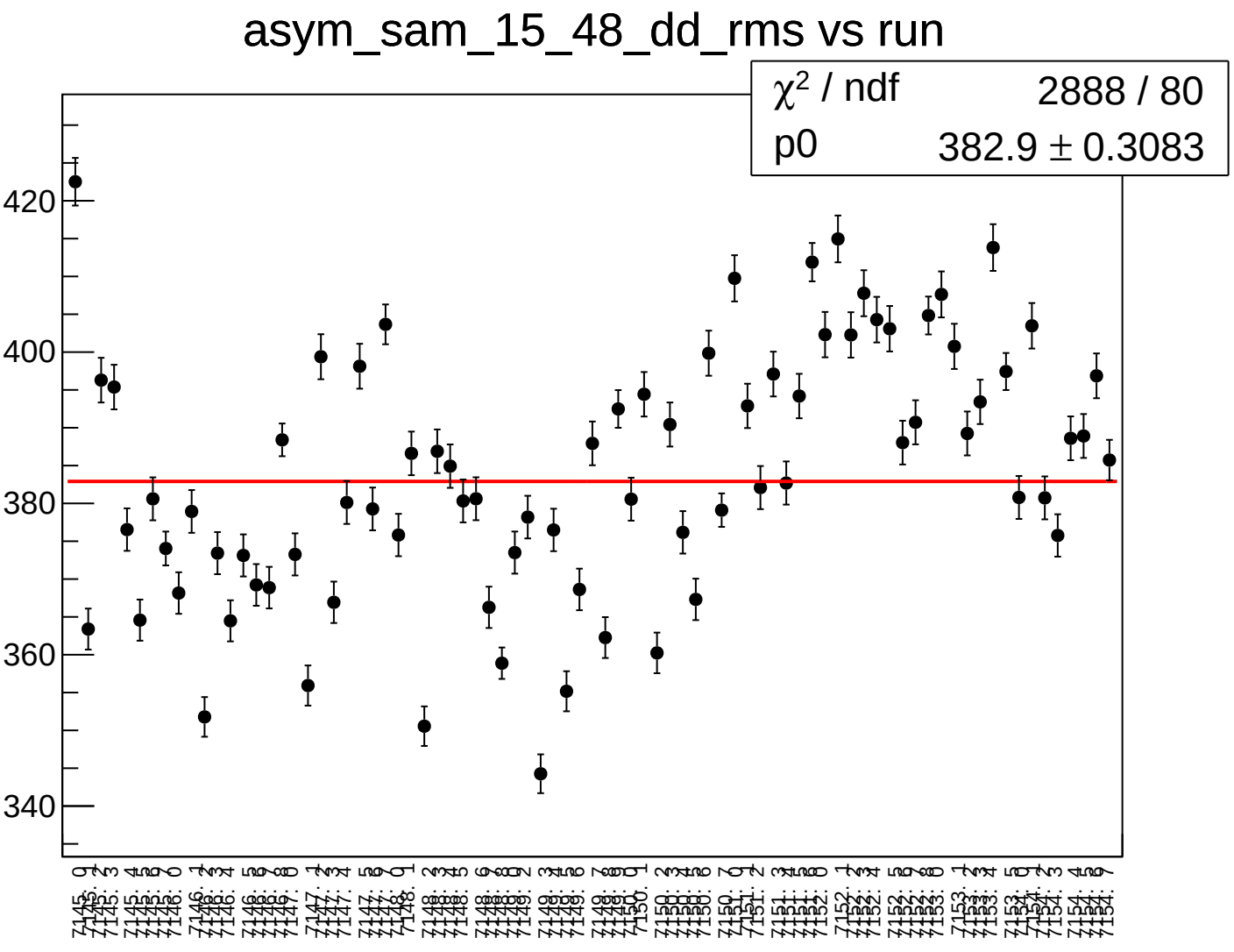

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 92.77 / 80
p0 1316 ± 432.5
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 1138
Std Dev 1091
2
1
0
−1
−2

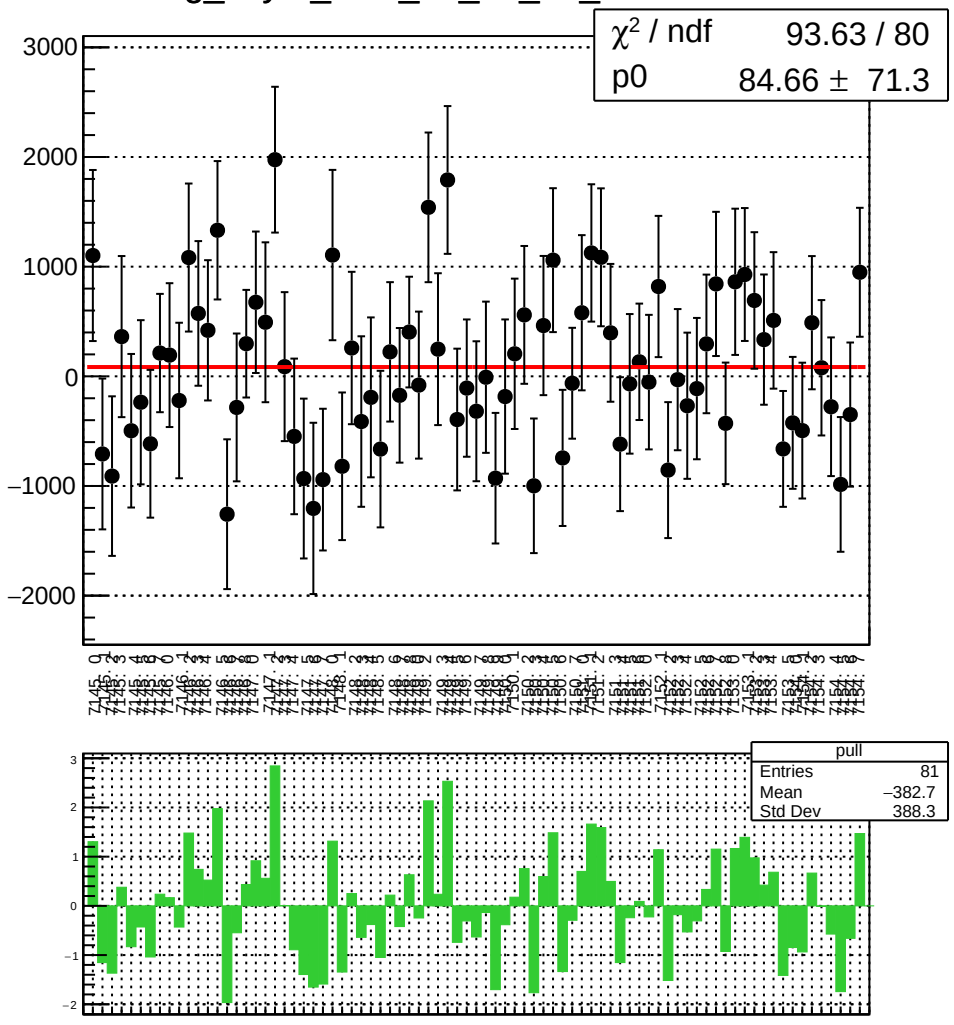

pull1D
Entries 81
Mean −0.00248
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

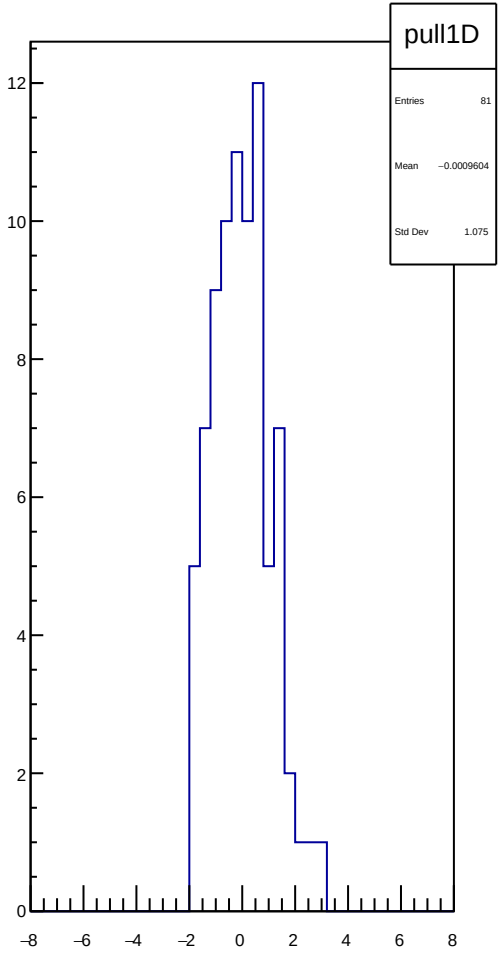

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 2993 / 80
p0 379.9 ± 0.3059
420
410
400
390
380
370
360
350
340
330

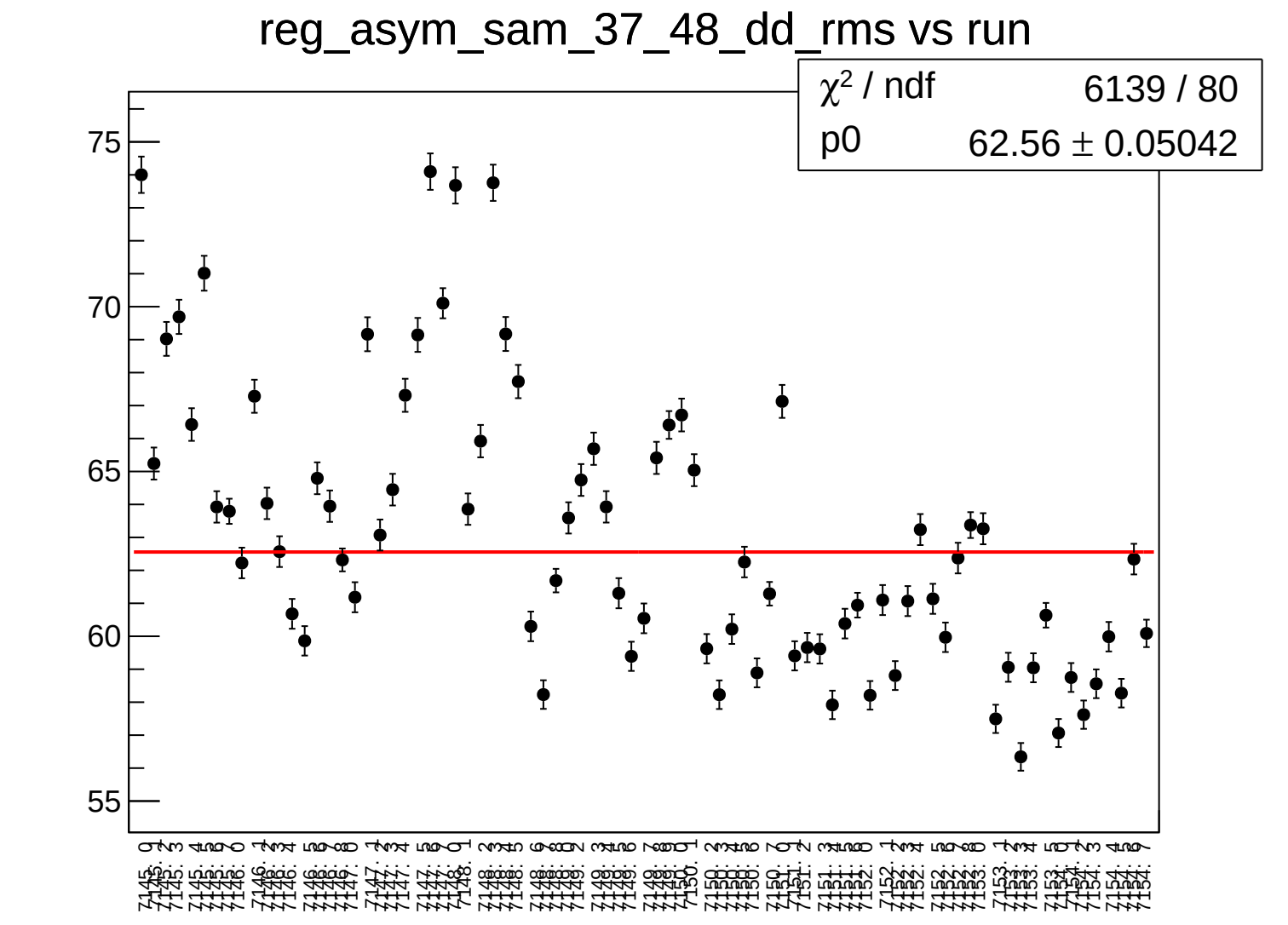

asym_sam_15_48_dd_mean vs run
χ² / ndf 88.59 / 80
p0 −1328 ± 436
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 1886
Std Dev 1839
2
1
0
−1
−2

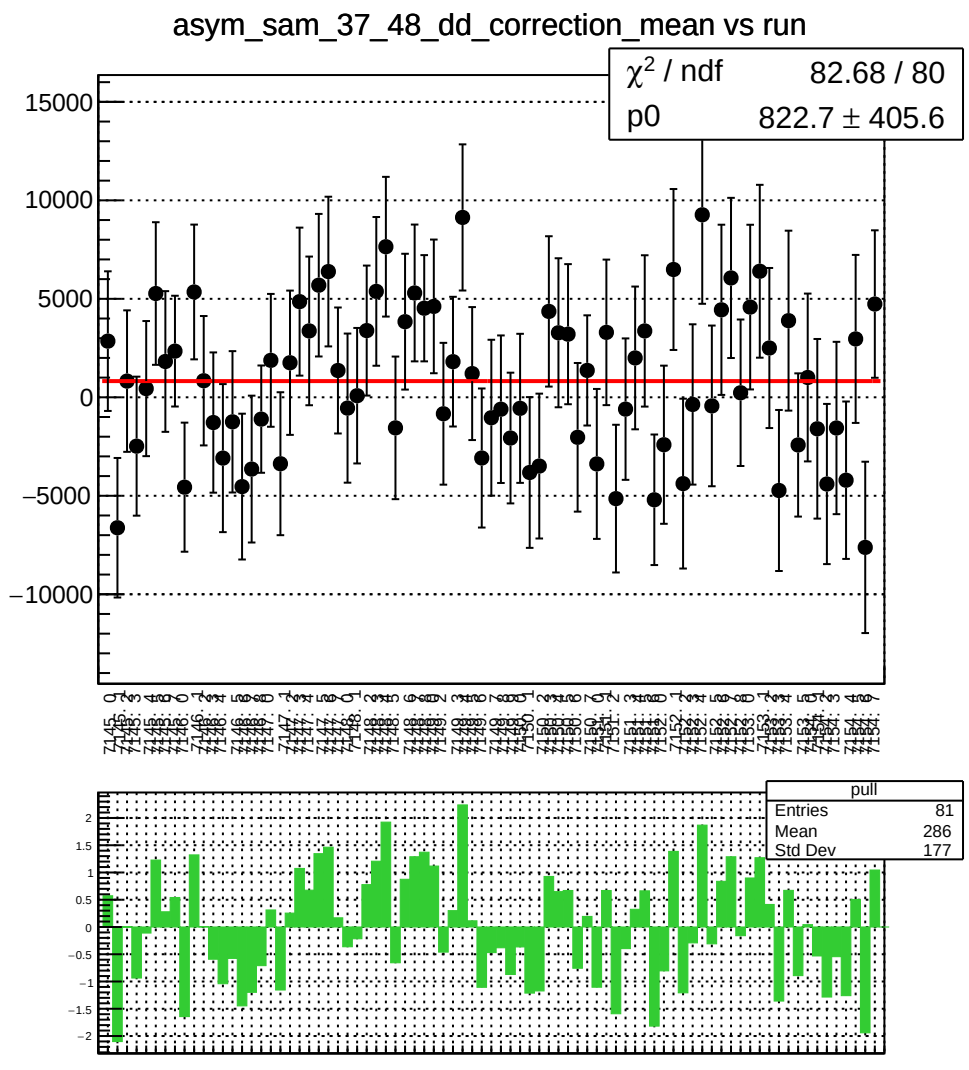

pull1D
Entries 81
Mean 0.001549
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

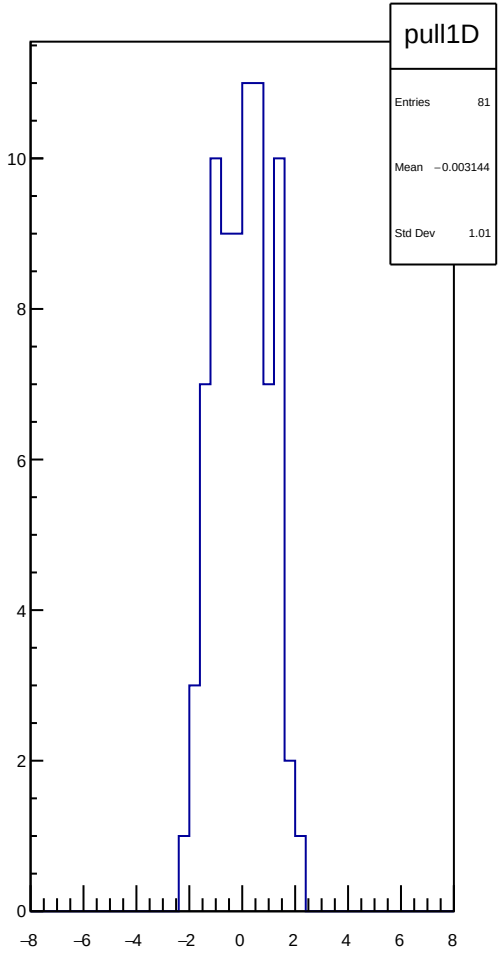

asym_sam_15_48_dd_rms vs run
χ² / ndf 2888 / 80
p0 382.9 ± 0.3083
420
400
380
360
340

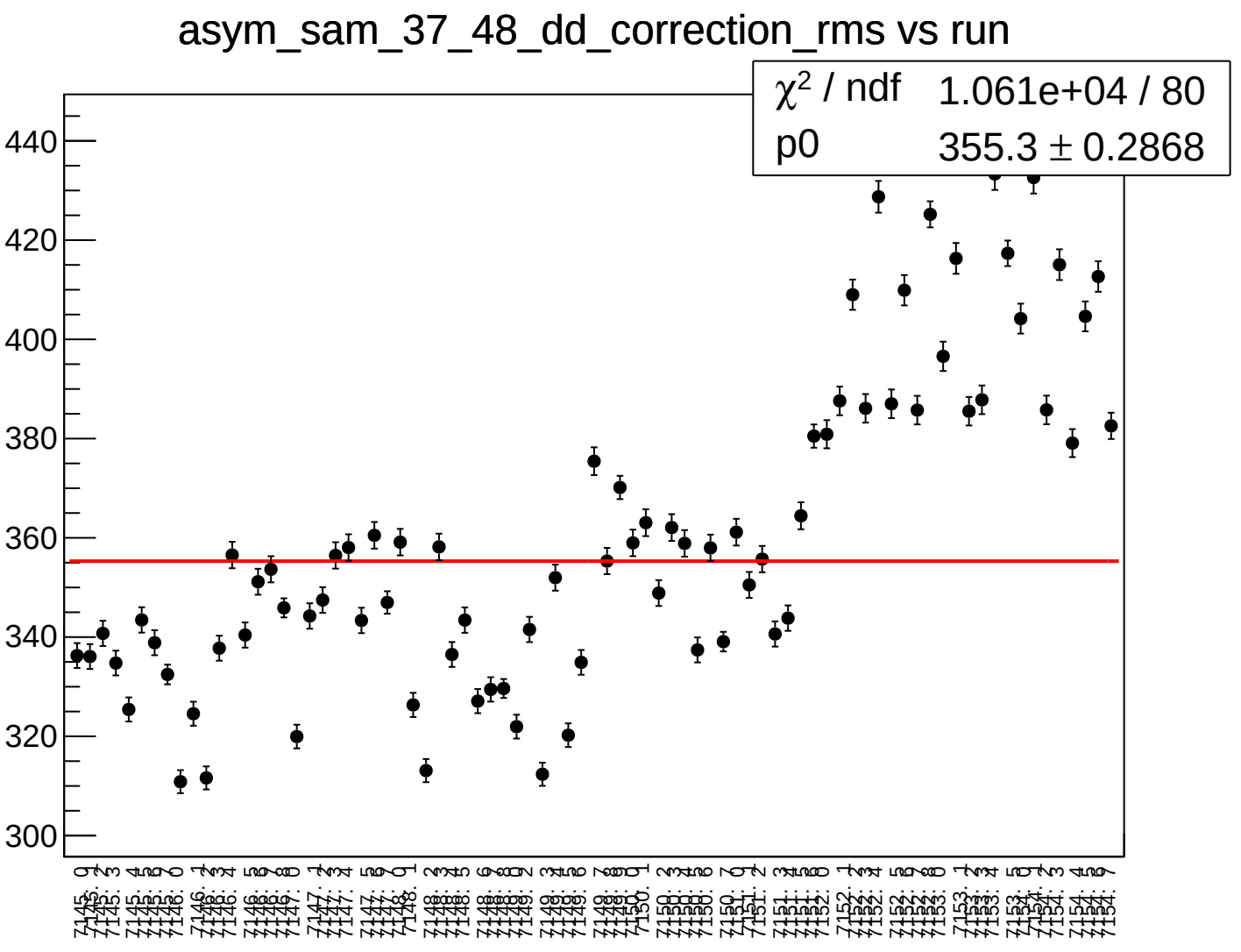

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 93.63 / 80
p0 84.66 ± 71.3
pull
Entries 81
Mean −382.7
Std Dev 388.3

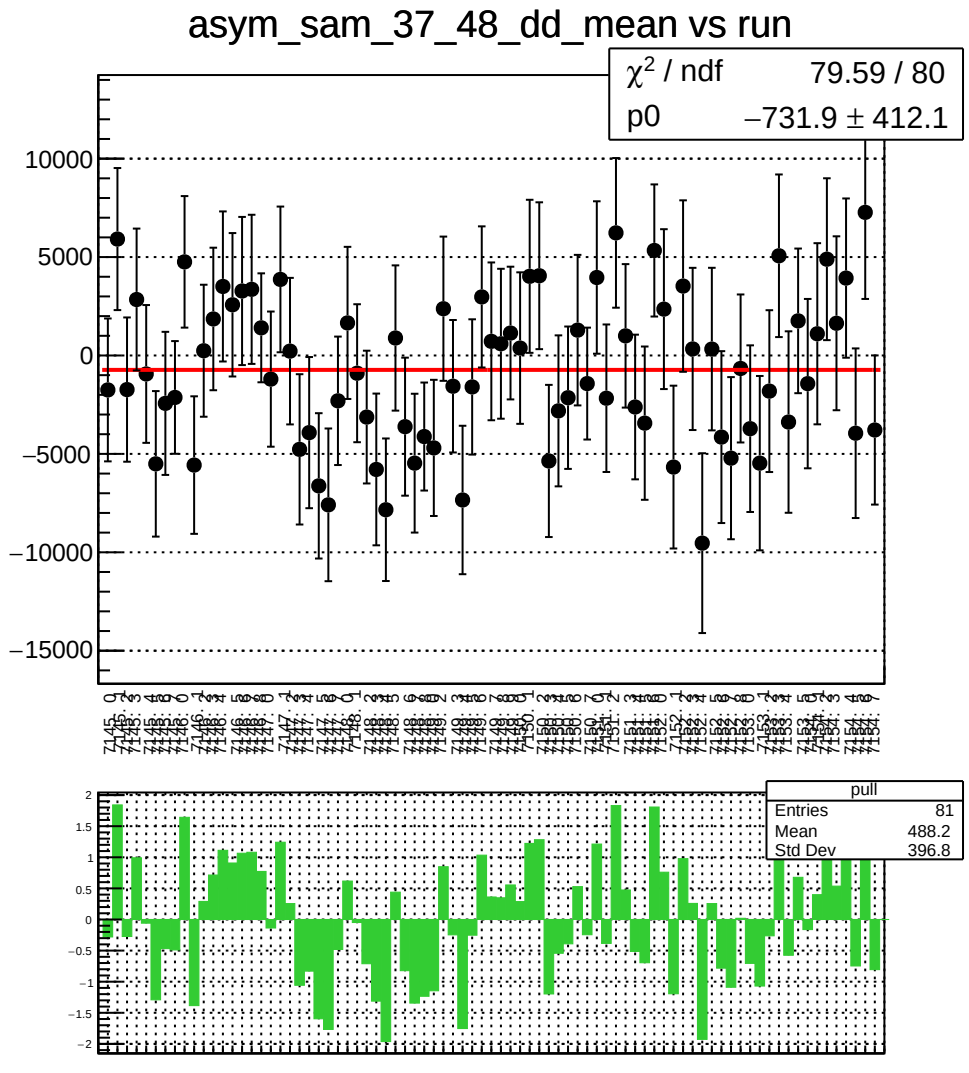

pull1D
Entries 81
Mean −0.0009604
Std Dev 1.075

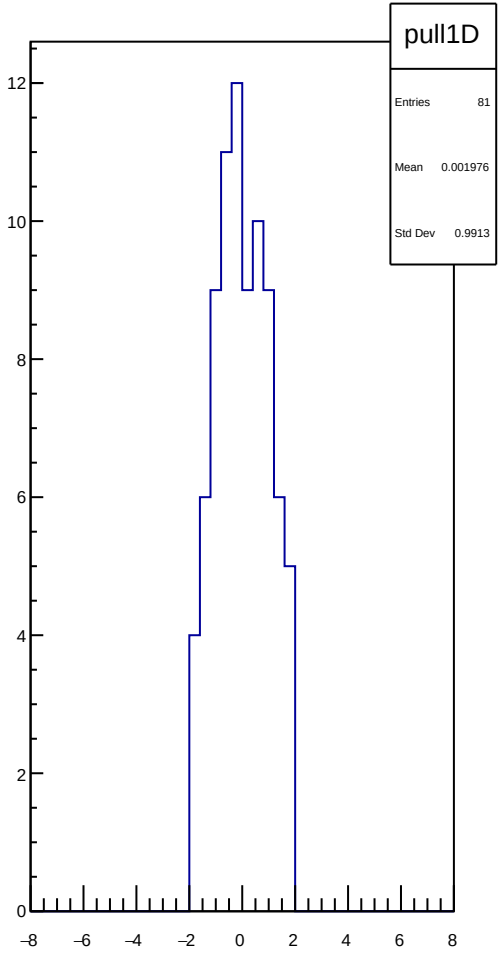

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 6139 / 80
p0 62.56 ± 0.05042
75
70
65
60
55

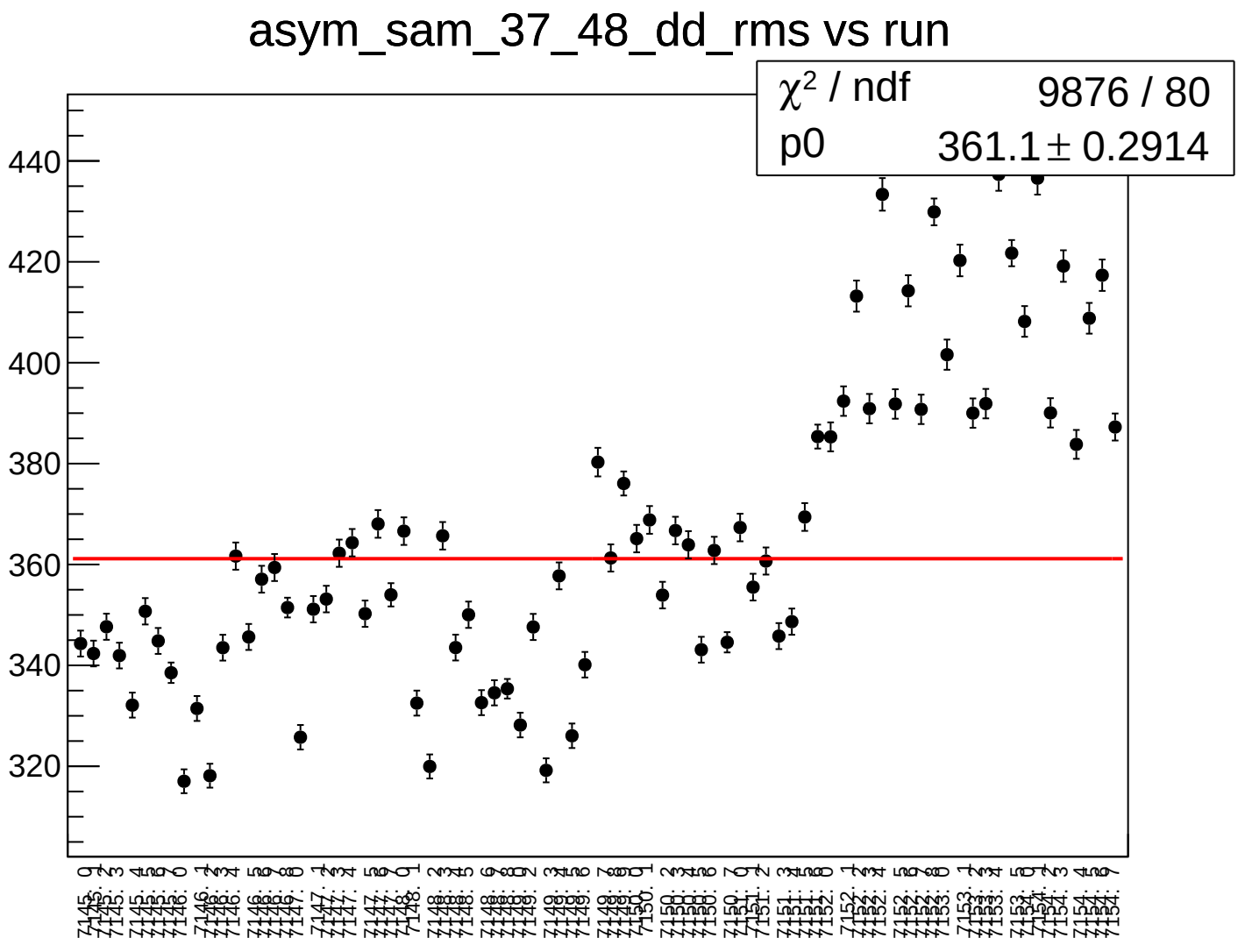

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 82.68 / 80
p0 822.7 ± 405.6
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 286
Std Dev 177
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

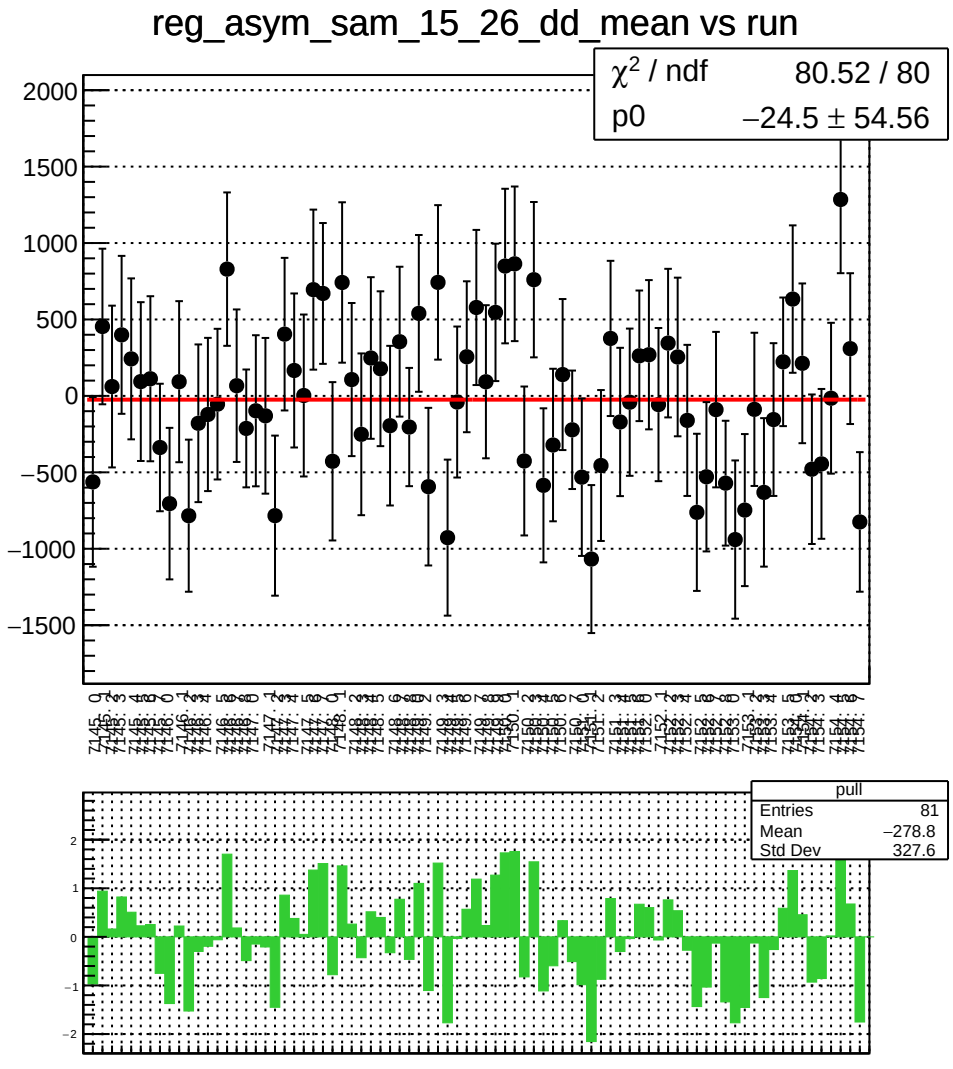

pull1D
Entries 81
Mean −0.003144
Std Dev 1.01
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

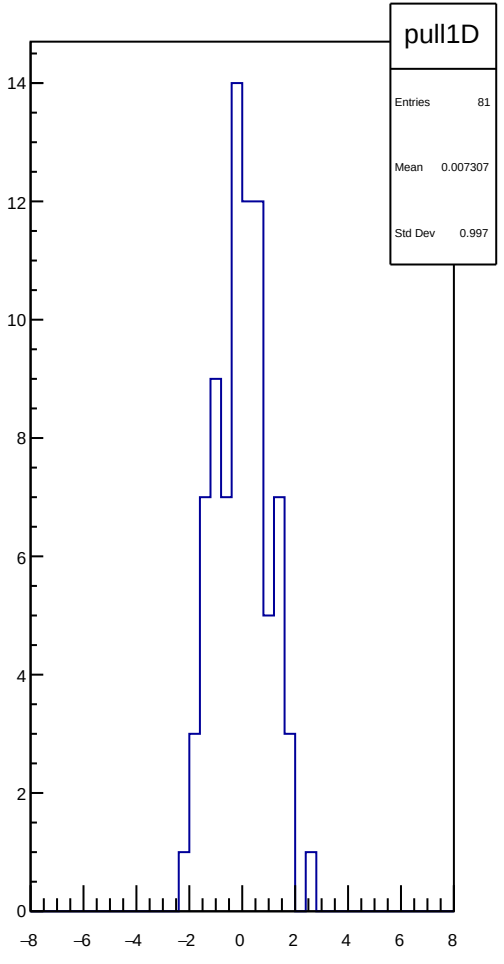

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 1.061e+04 / 80
p0 355.3 ± 0.2868
440
420
400
380
360
340
320
300

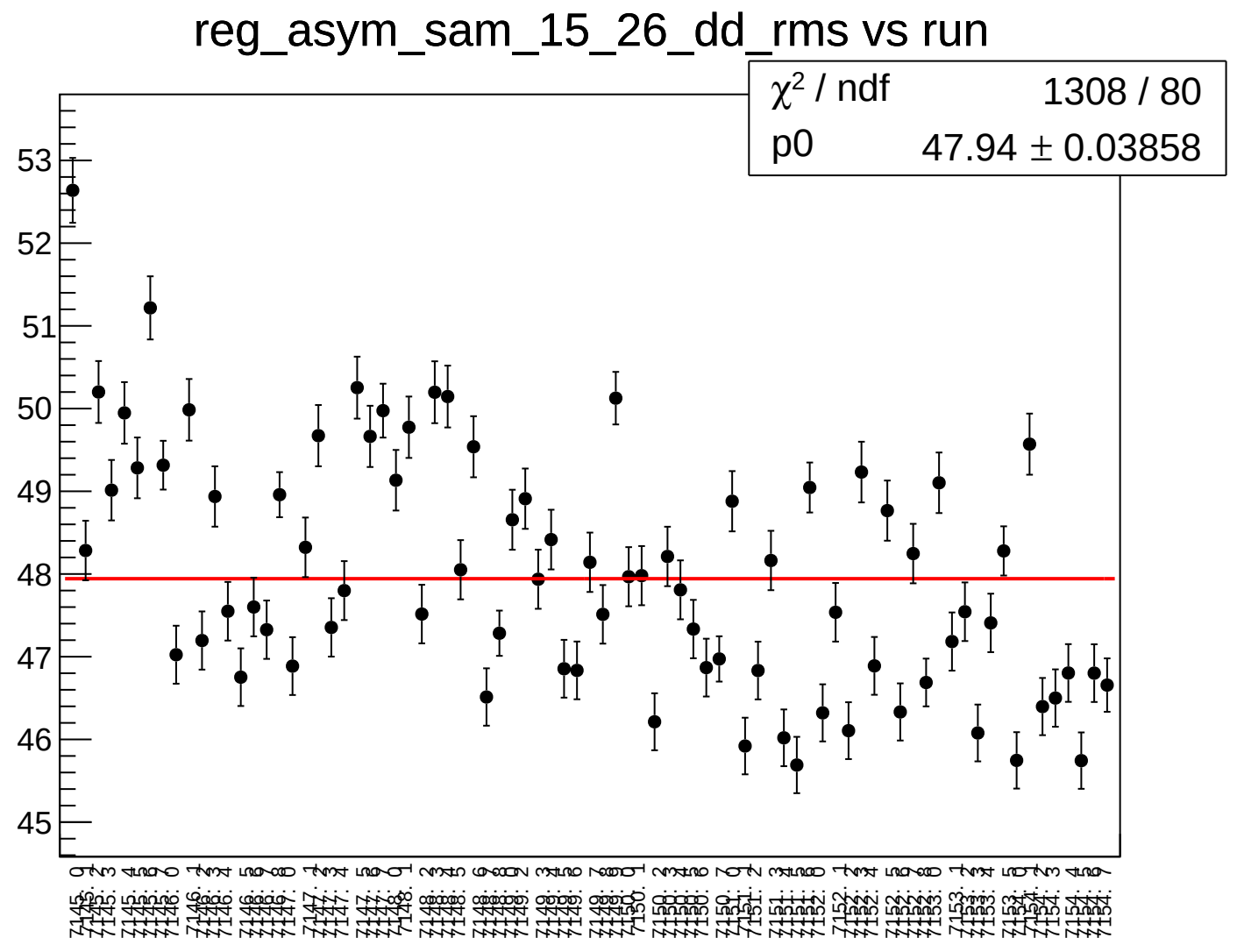

asym_sam_37_48_dd_mean vs run
χ² / ndf 79.59 / 80
p0 −731.9 ± 412.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 488.2
Std Dev 396.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

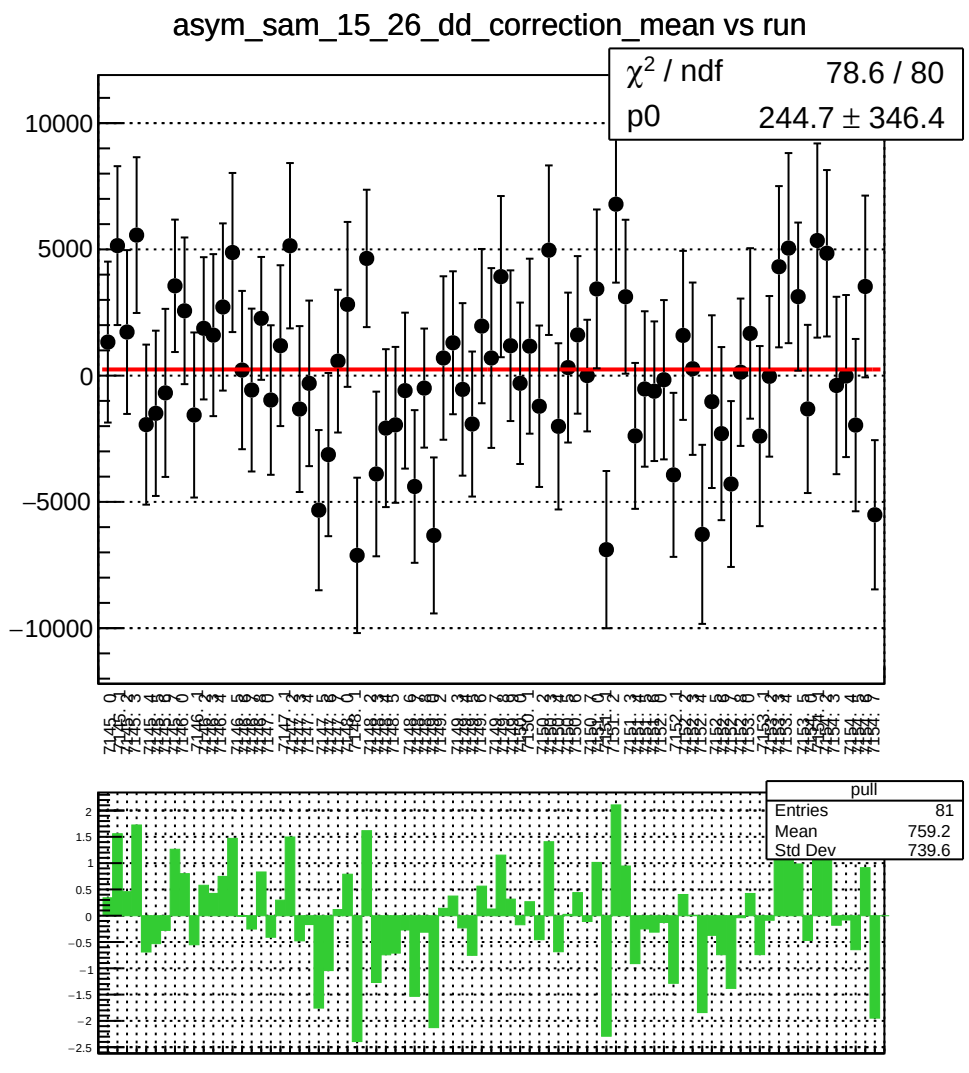

pull1D
Entries 81
Mean 0.001976
Std Dev 0.9913
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

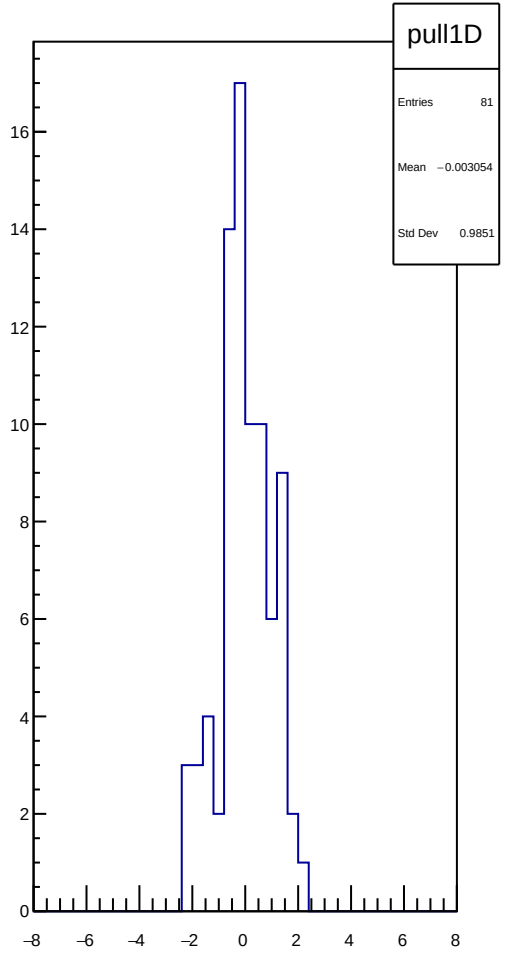

asym_sam_37_48_dd_rms vs run
χ² / ndf 9876 / 80
p0 361.1 ± 0.2914
440
420
400
380
360
340
320

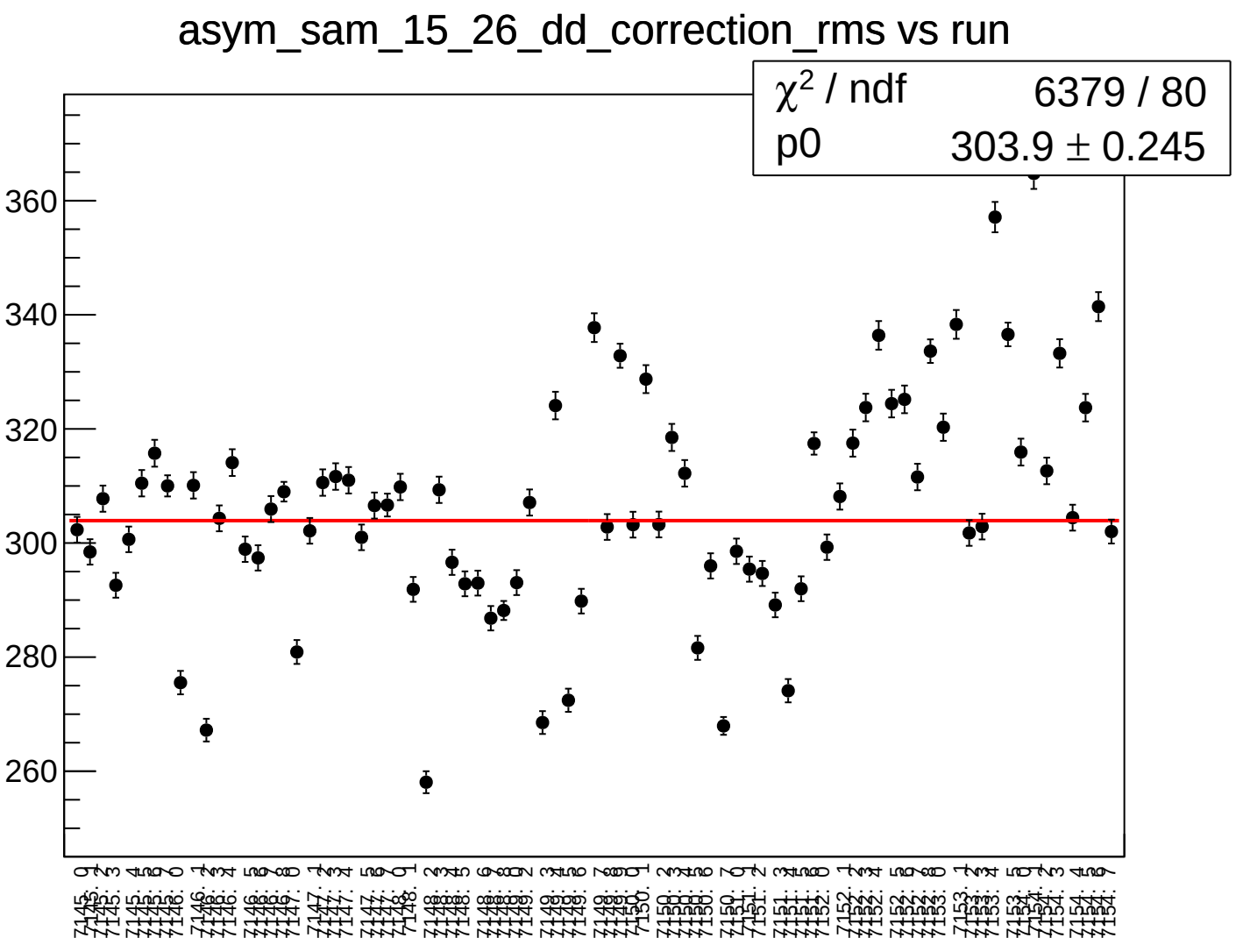

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 80.52 / 80
p0 −24.5 ± 54.56
pull
Entries 81
Mean −278.8
Std Dev 327.6

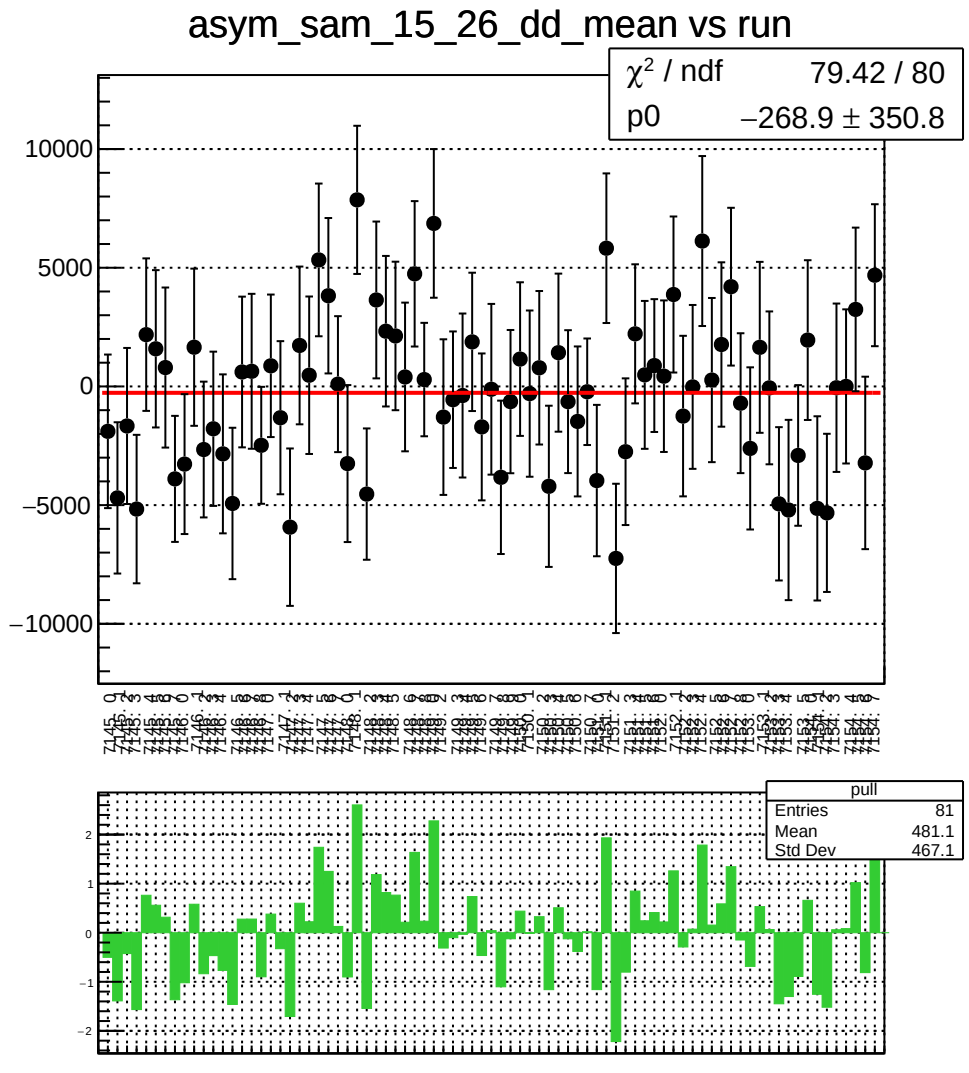

pull1D
Entries 81
Mean 0.007307
Std Dev 0.997

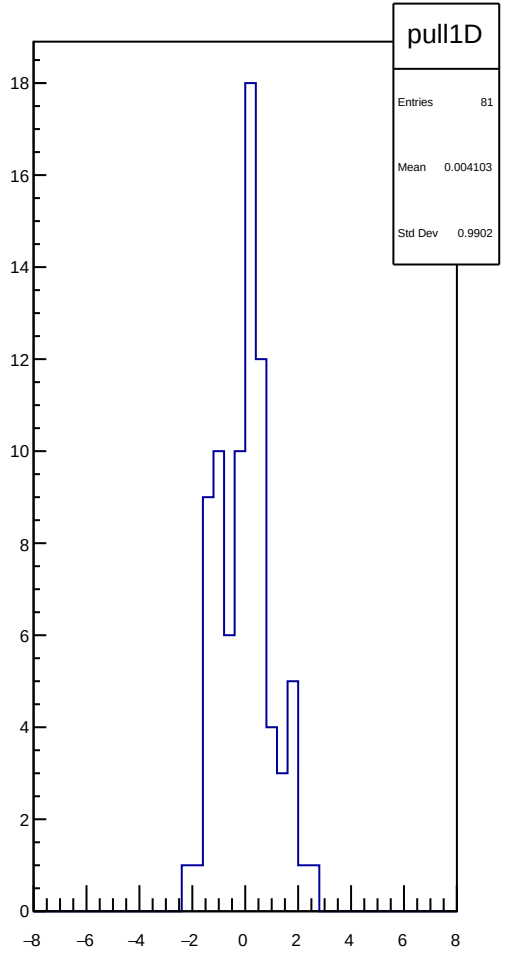

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1308 / 80
p0 47.94 ± 0.03858
53
52
51
50
49
48
47
46
45

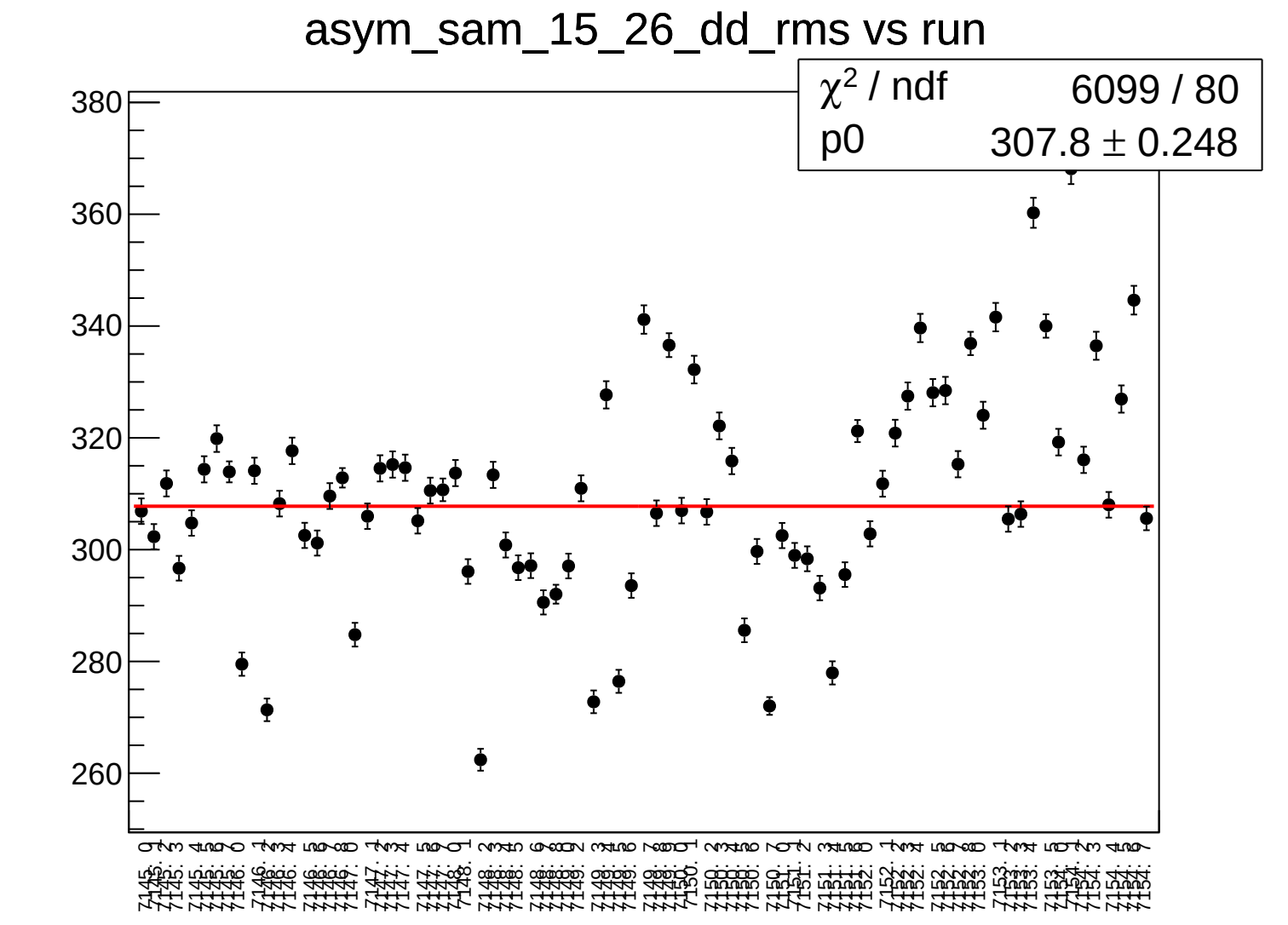

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 78.6 / 80
p0 244.7 ± 346.4
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 759.2
Std Dev 739.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

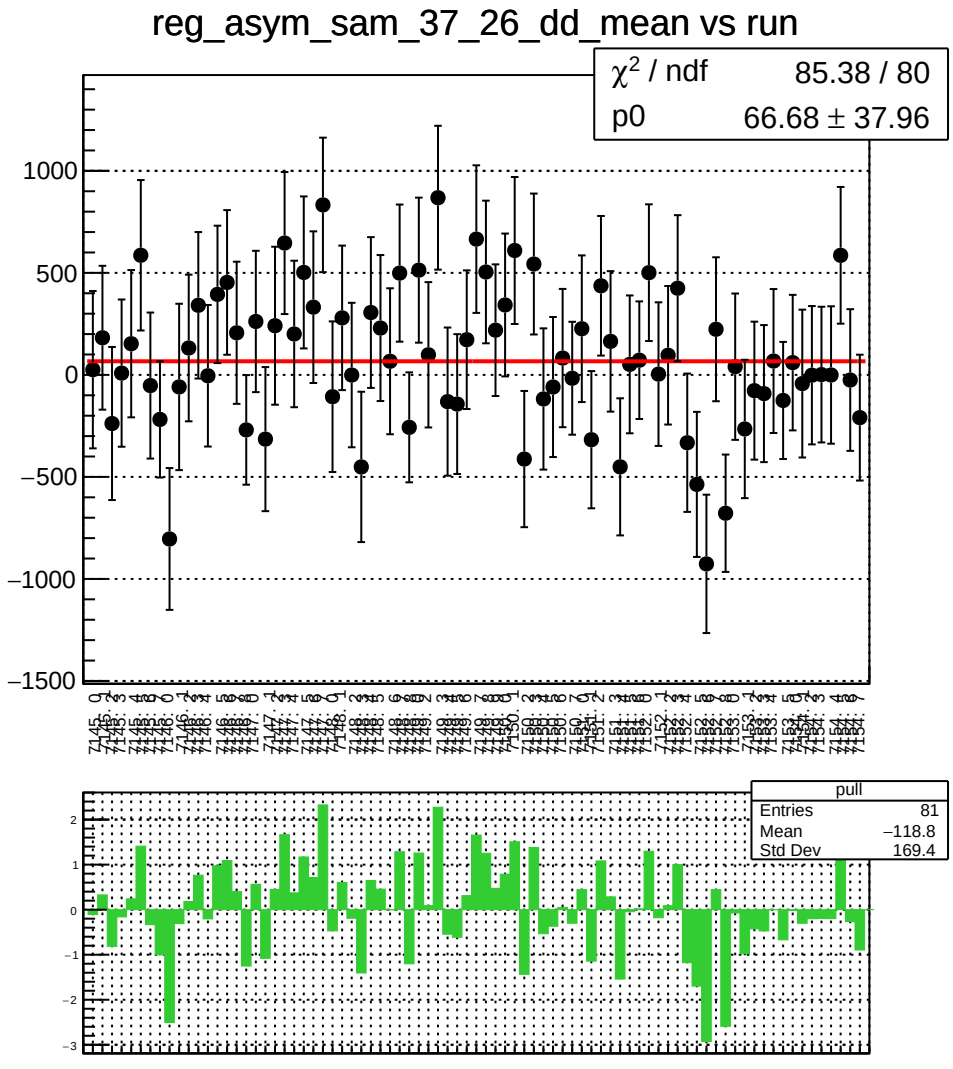

pull1D
Entries 81
Mean −0.003054
Std Dev 0.9851
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

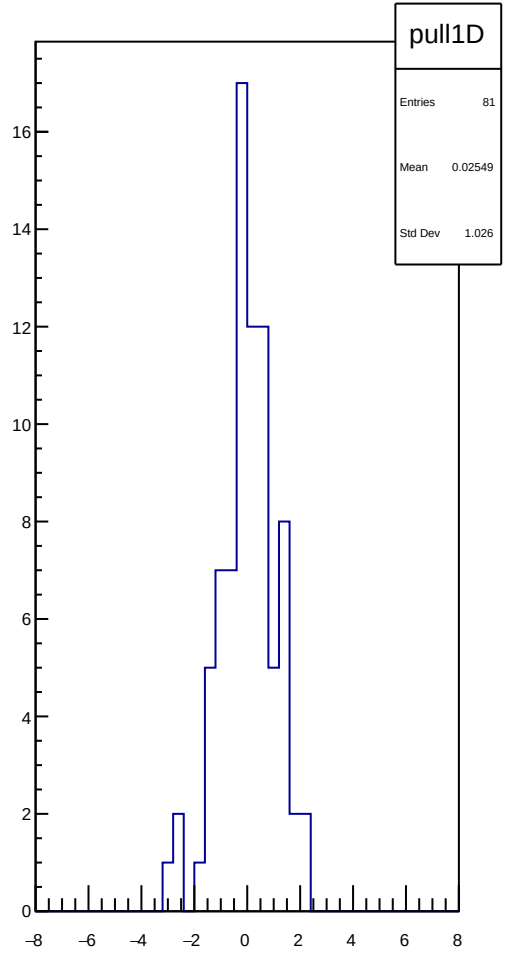

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 6379 / 80
p0 303.9 ± 0.245
360
340
320
300
280
260

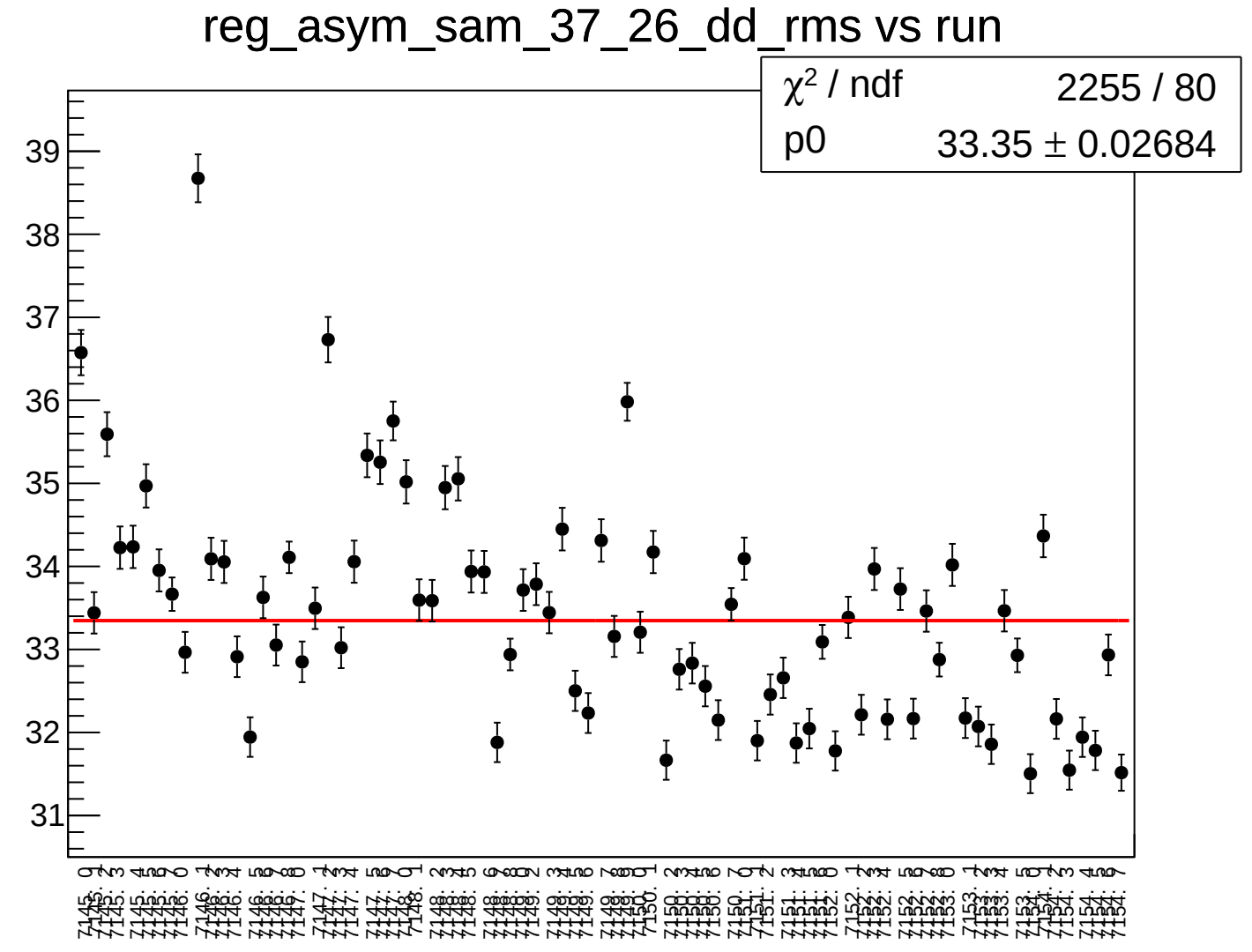

asym_sam_15_26_dd_mean vs run
χ² / ndf 79.42 / 80
p0 −268.9 ± 350.8
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 481.1
Std Dev 467.1
2
1
0
−1
−2

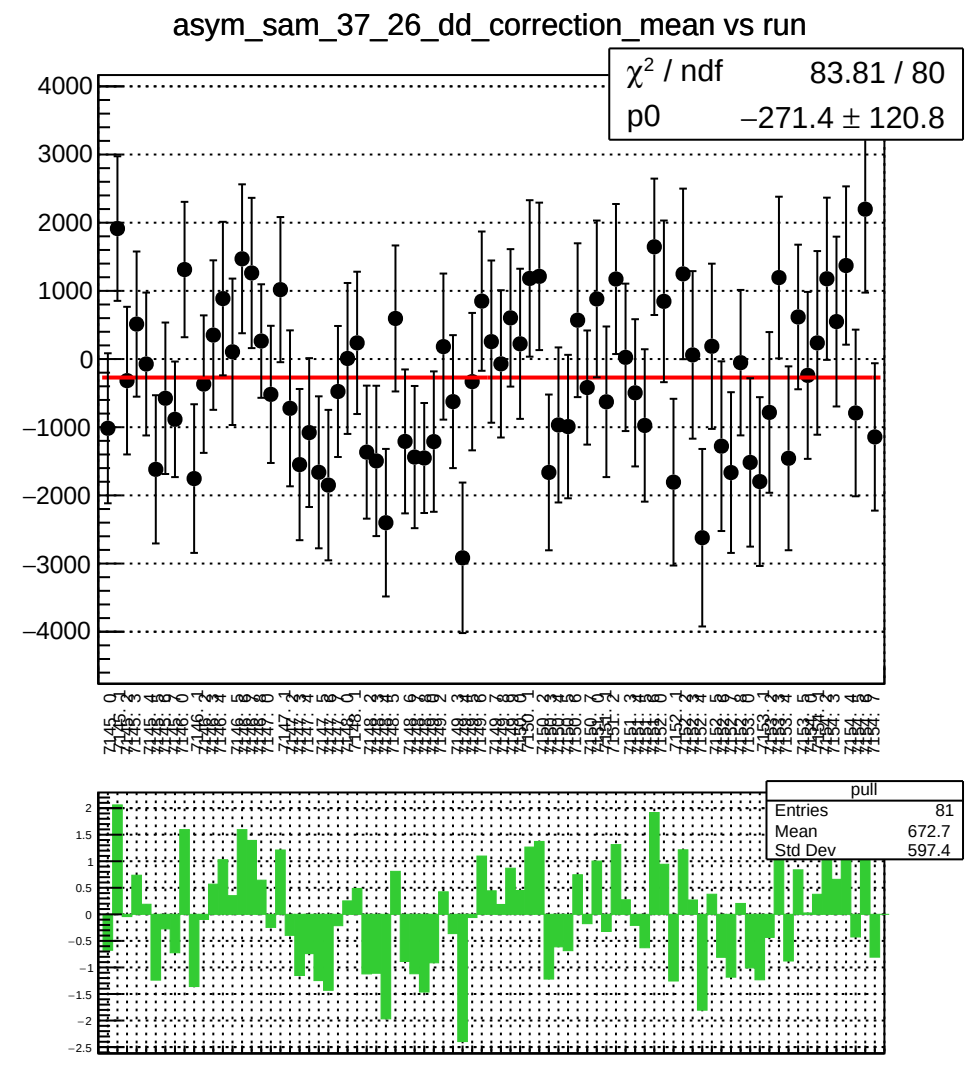

pull1D
Entries 81
Mean 0.004103
Std Dev 0.9902
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

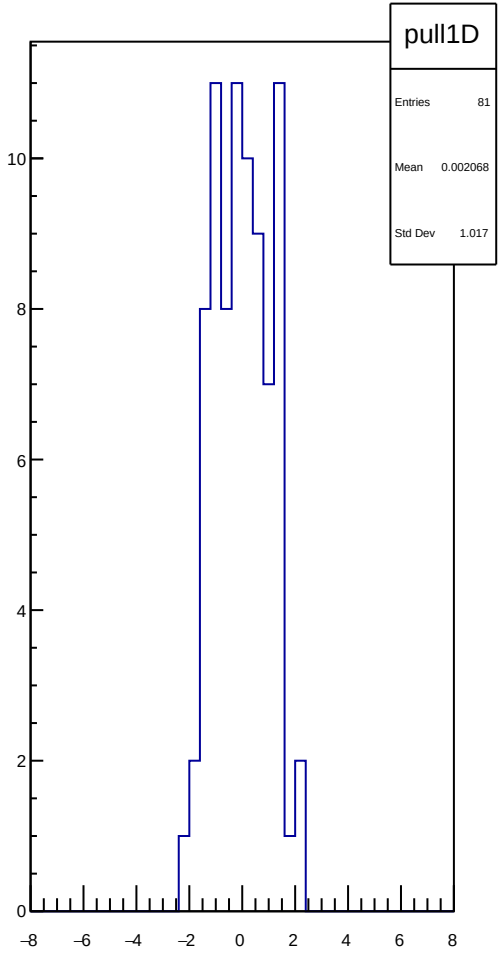

asym_sam_15_26_dd_rms vs run
χ² / ndf 6099 / 80
p0 307.8 ± 0.248
380
360
340
320
300
280
260

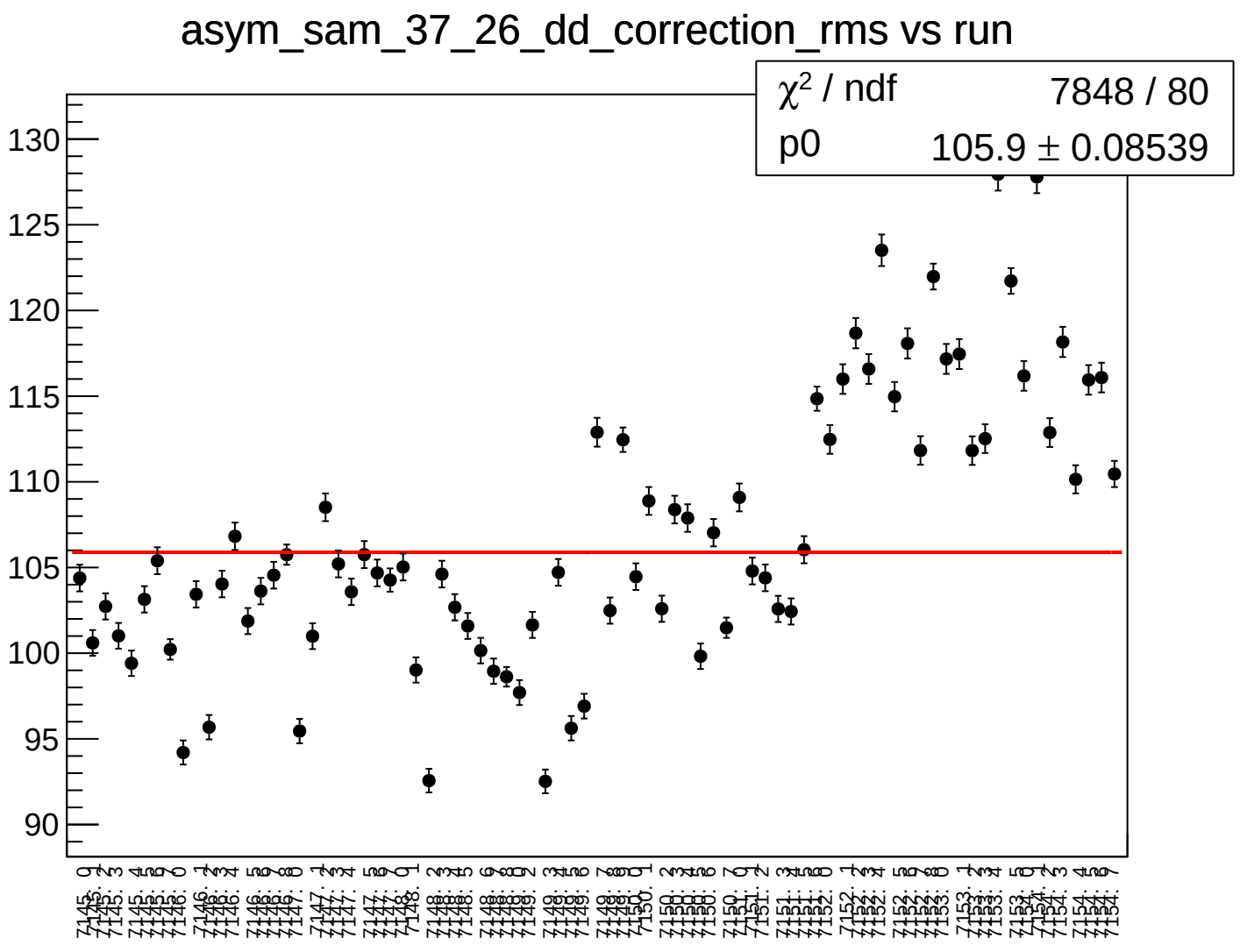

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 85.38 / 80
p0 66.68 ± 37.96
1000
500
0
−500
−1000
−1500
pull
Entries 81
Mean −118.8
Std Dev 169.4
2
1
0
−1
−2
−3

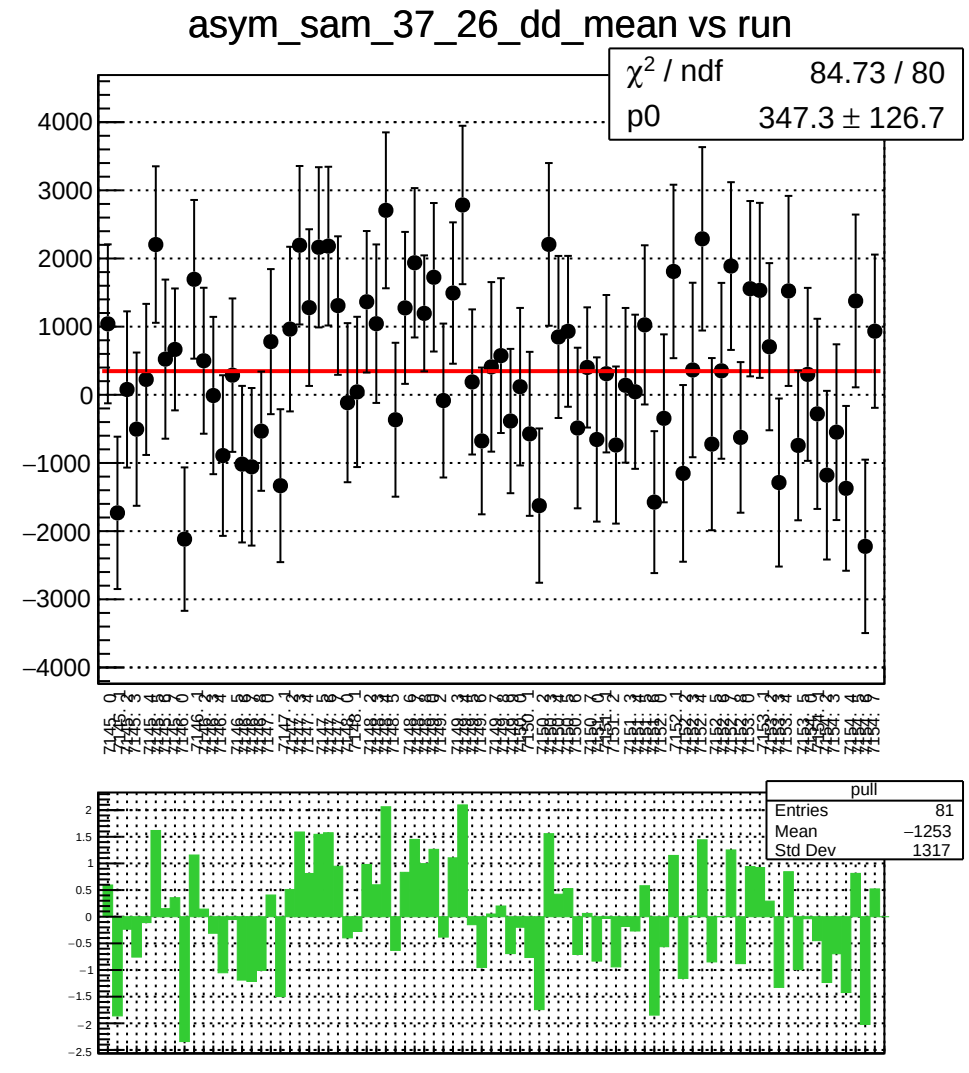

pull1D
Entries 81
Mean 0.02549
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

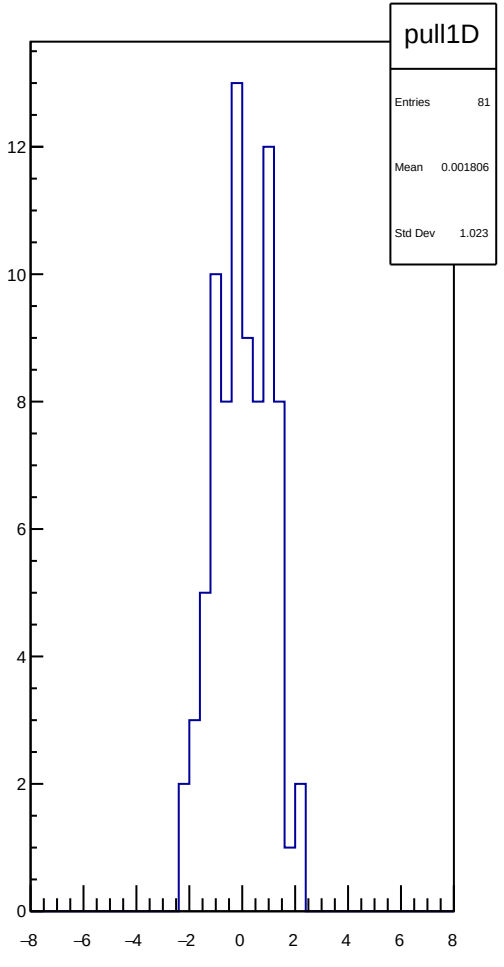

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 2255 / 80
p0 33.35 ± 0.02684
39
38
37
36
35
34
33
32
31

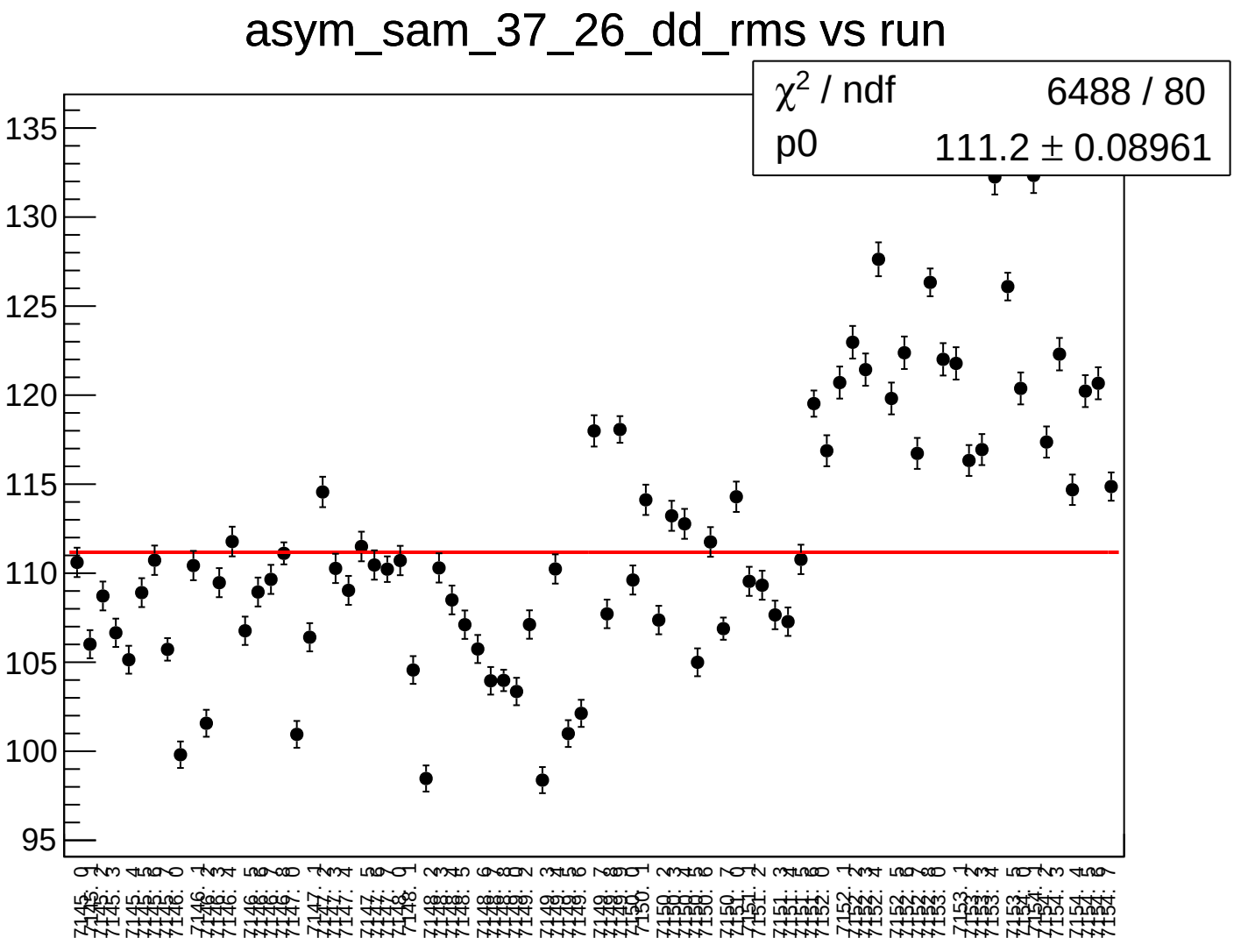

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 83.81 / 80
p0 −271.4 ± 120.8
pull
Entries 81
Mean 672.7
Std Dev 597.4

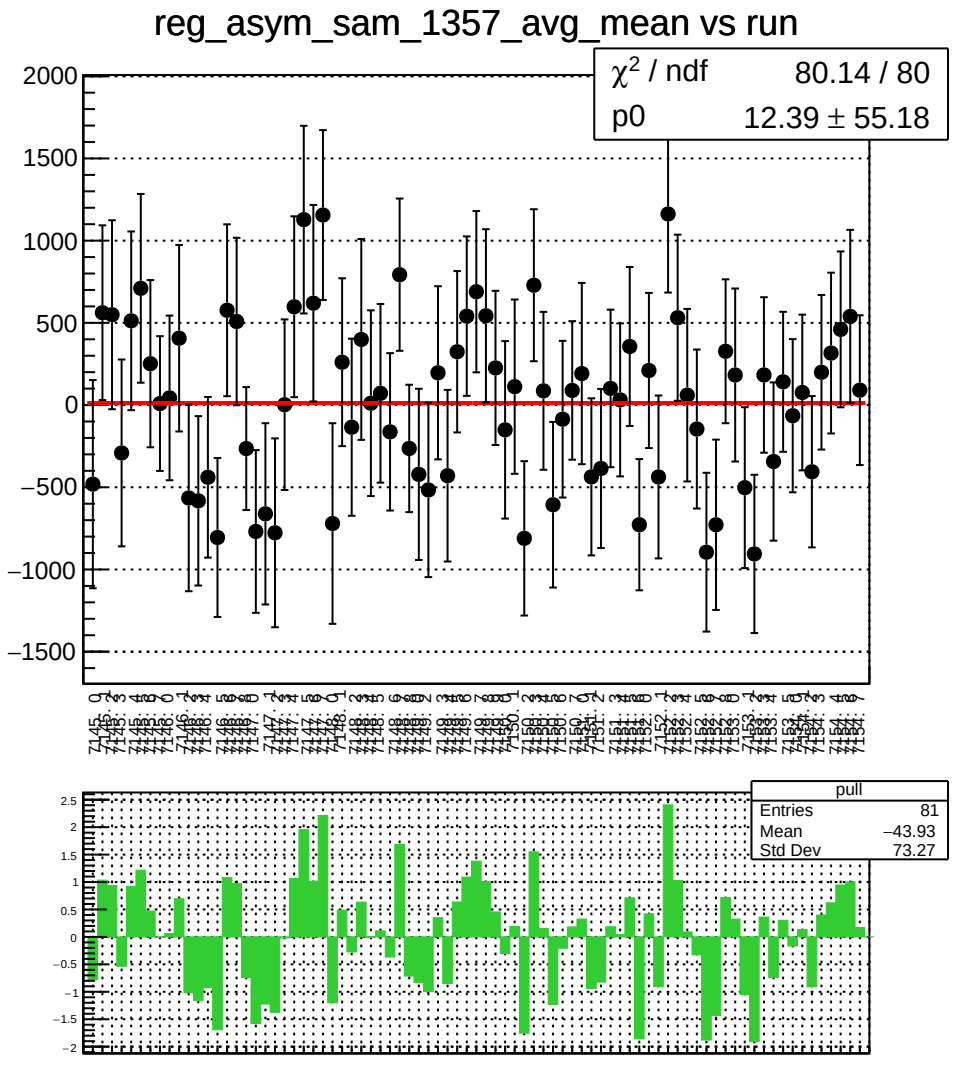

pull1D
Entries 81
Mean 0.002068
Std Dev 1.017

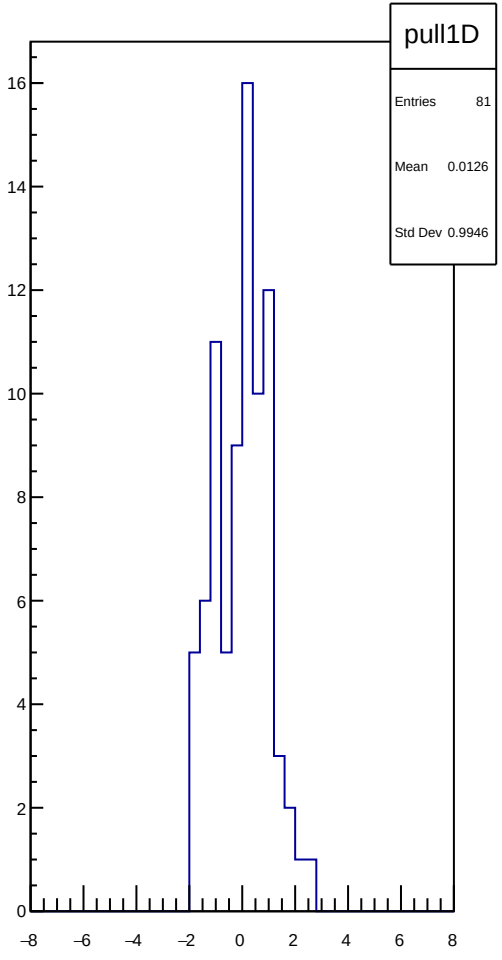

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 7848 / 80
p0 105.9 ± 0.08539
130
125
120
115
110
105
100
95
90

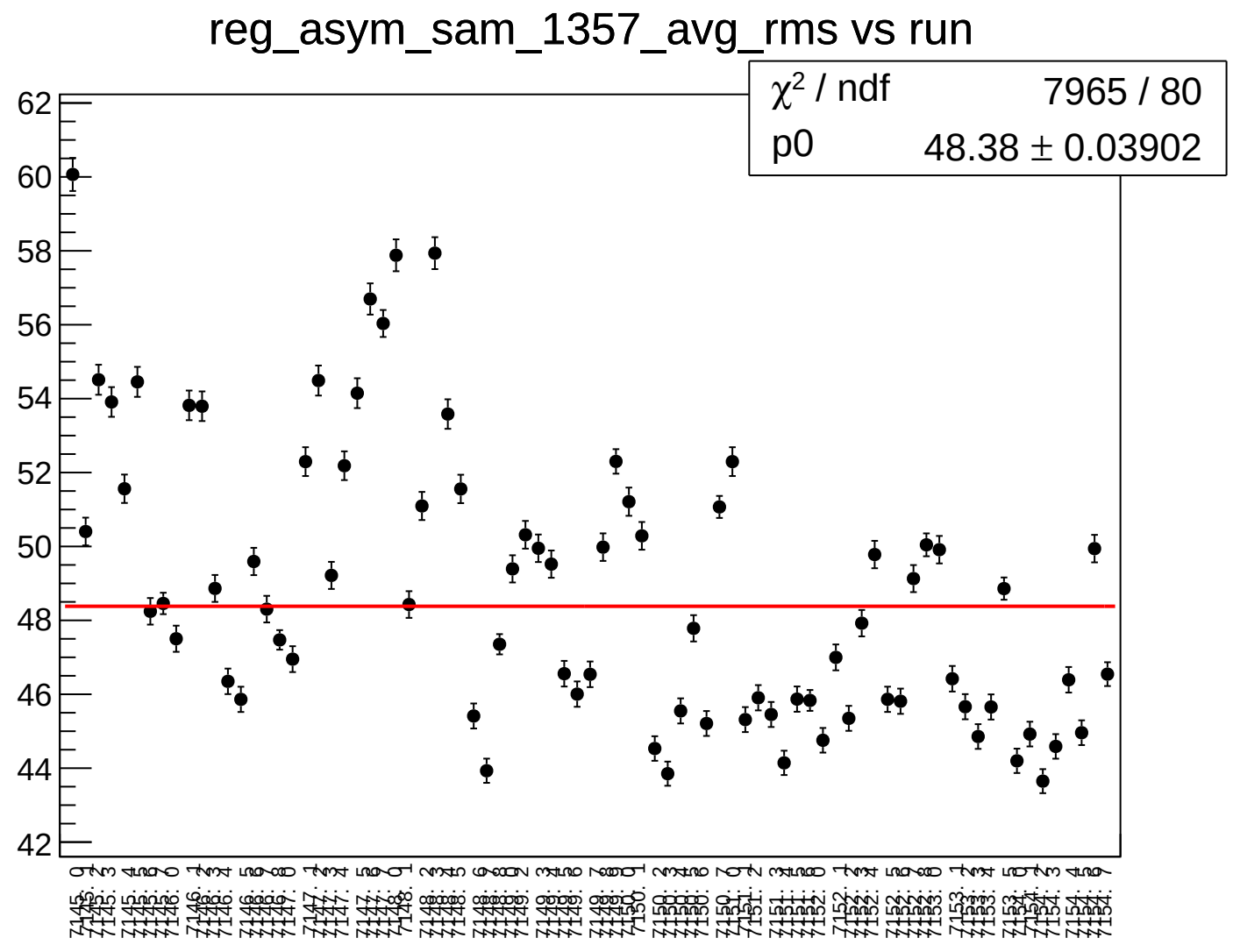

asym_sam_37_26_dd_mean vs run
χ^2 / ndf 84.73 / 80
p0 347.3 ± 126.7
pull
Entries 81
Mean −1253
Std Dev 1317

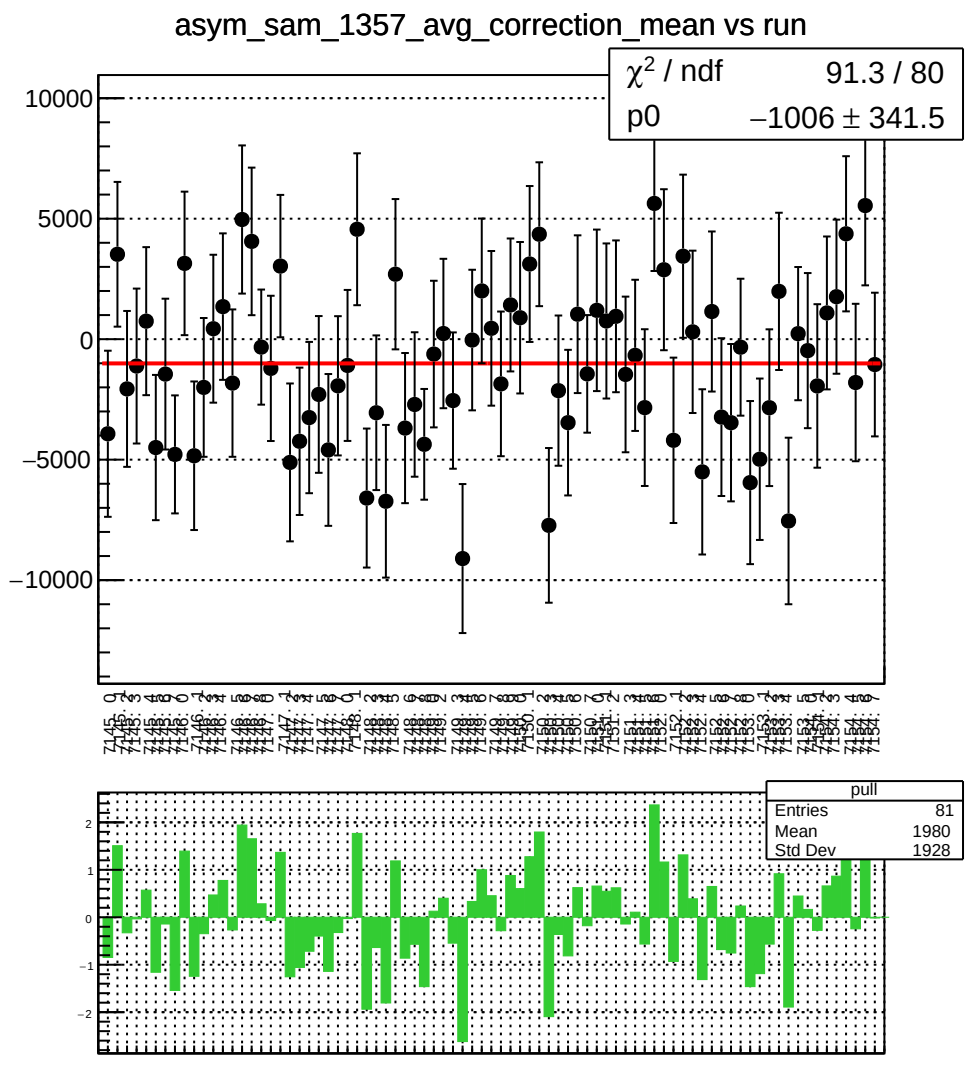

pull1D
Entries 81
Mean 0.001806
Std Dev 1.023

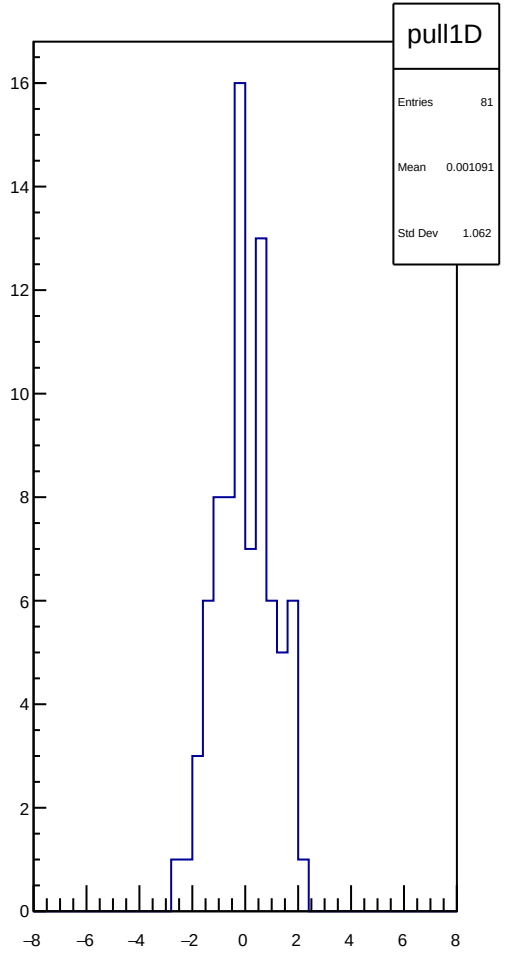

asym_sam_37_26_dd_rms vs run
χ² / ndf 6488 / 80
p0 111.2 ± 0.08961
135
130
125
120
115
110
105
100
95

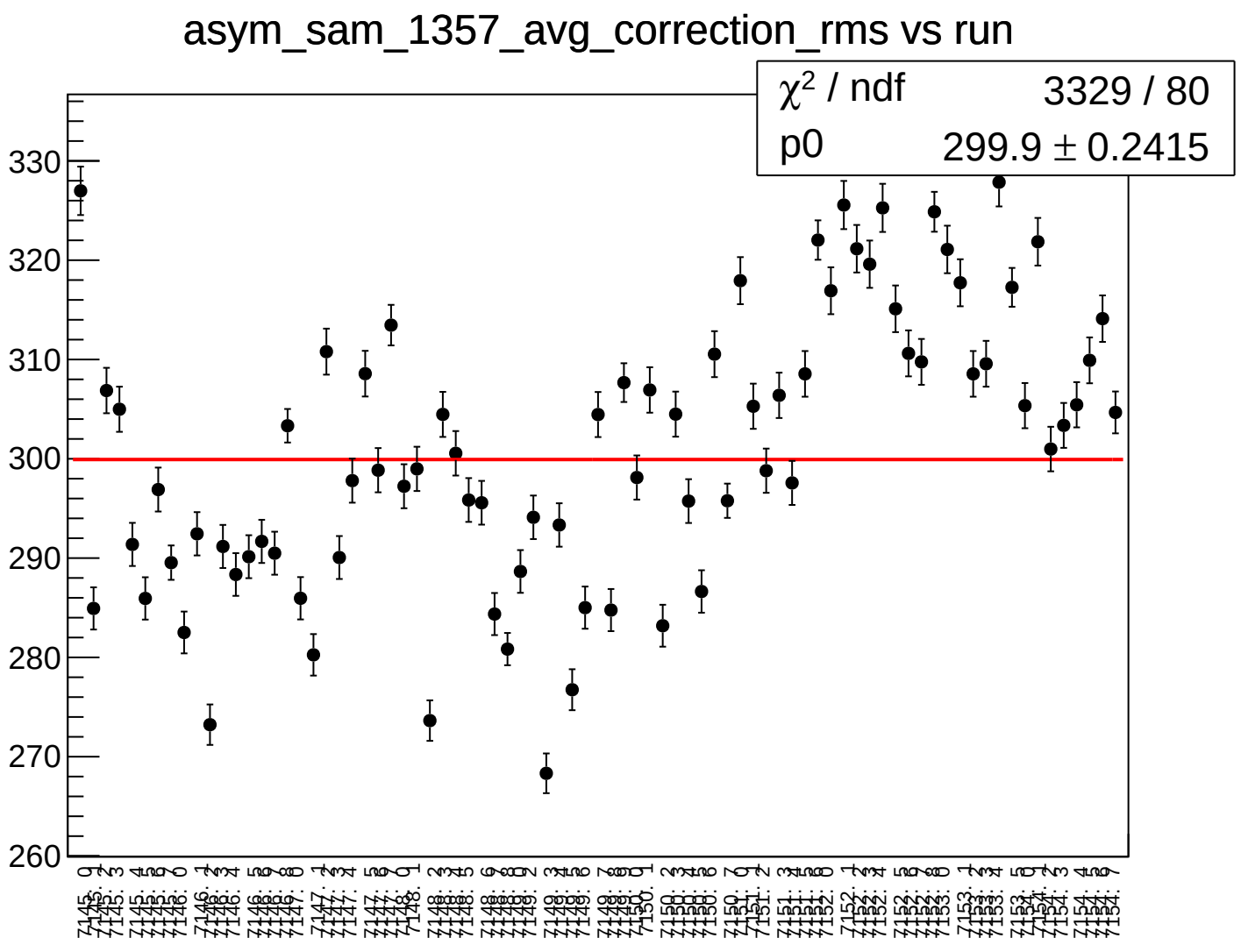

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 80.14 / 80
p0 12.39 ± 55.18
pull
Entries 81
Mean −43.93
Std Dev 73.27

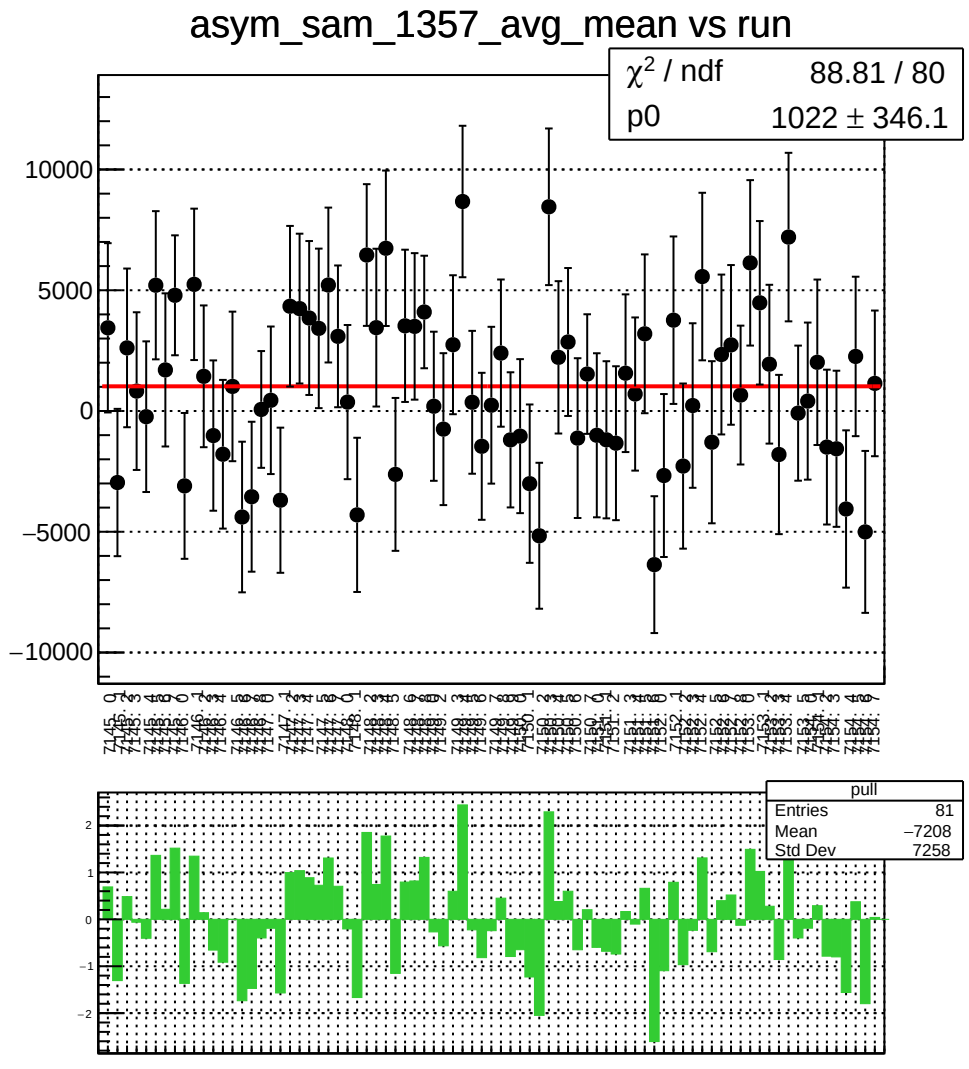

pull1D
Entries 81
Mean 0.0126
Std Dev 0.9946

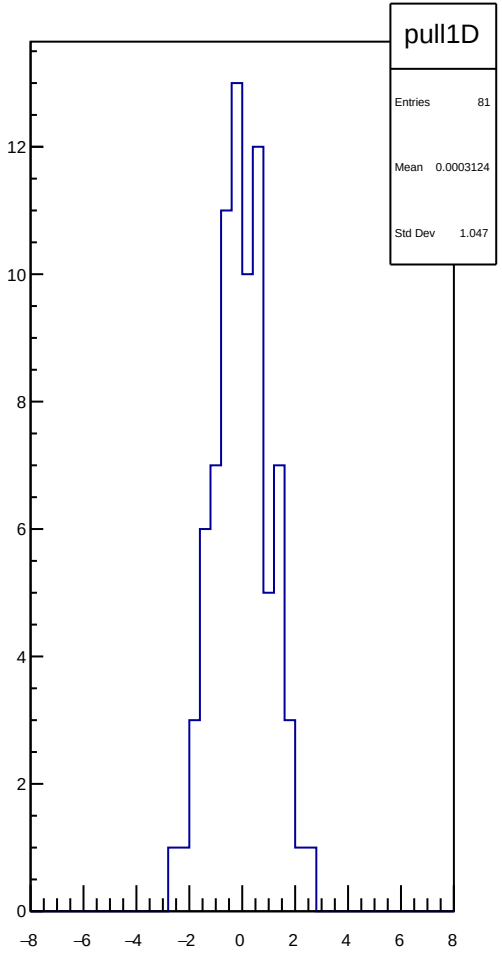

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 7965 / 80
p0 48.38 ± 0.03902
62
60
58
56
54
52
50
48
46
44
42

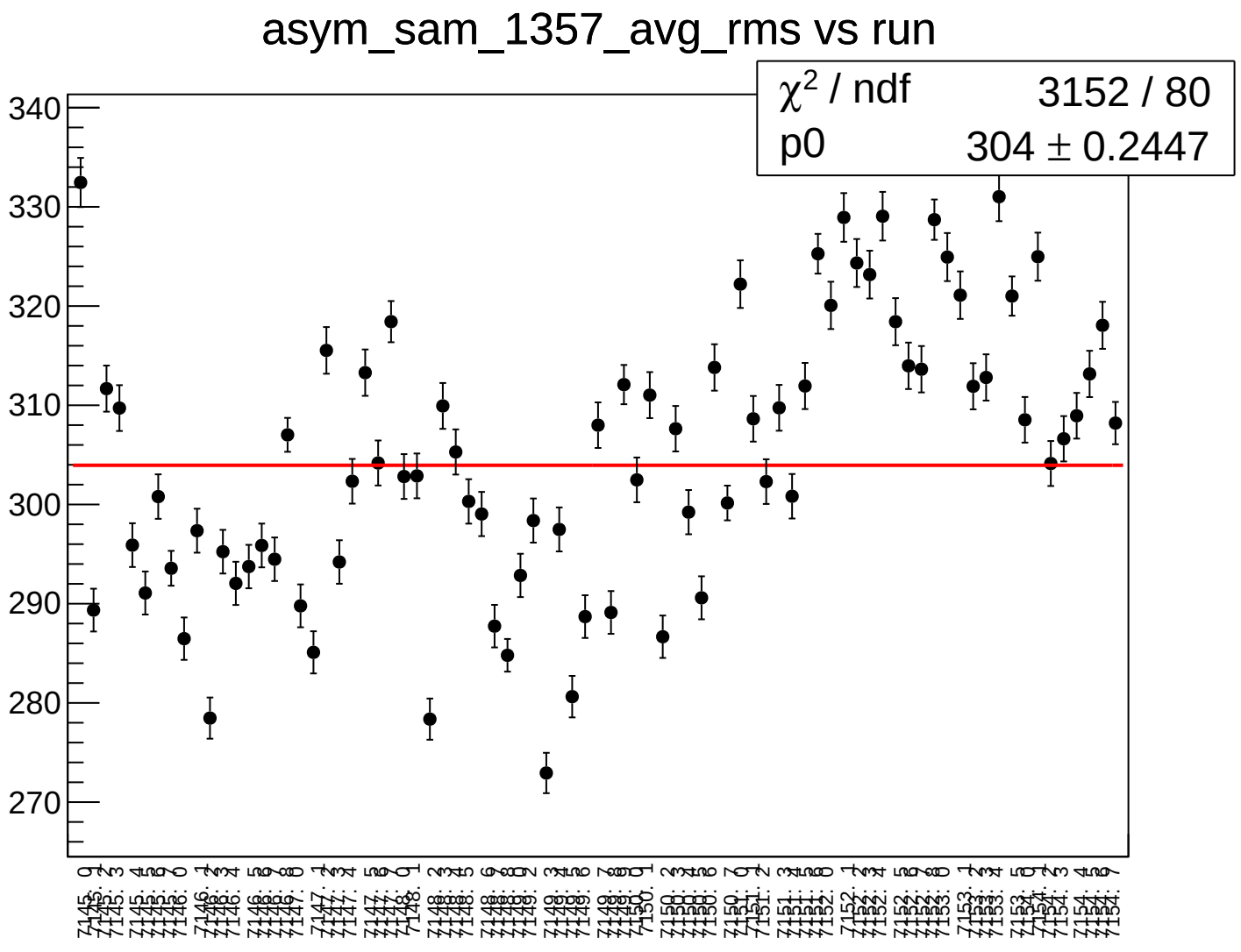

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 91.3 / 80
p0 −1006 ± 341.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 1980
Std Dev 1928
2
1
0
−1
−2

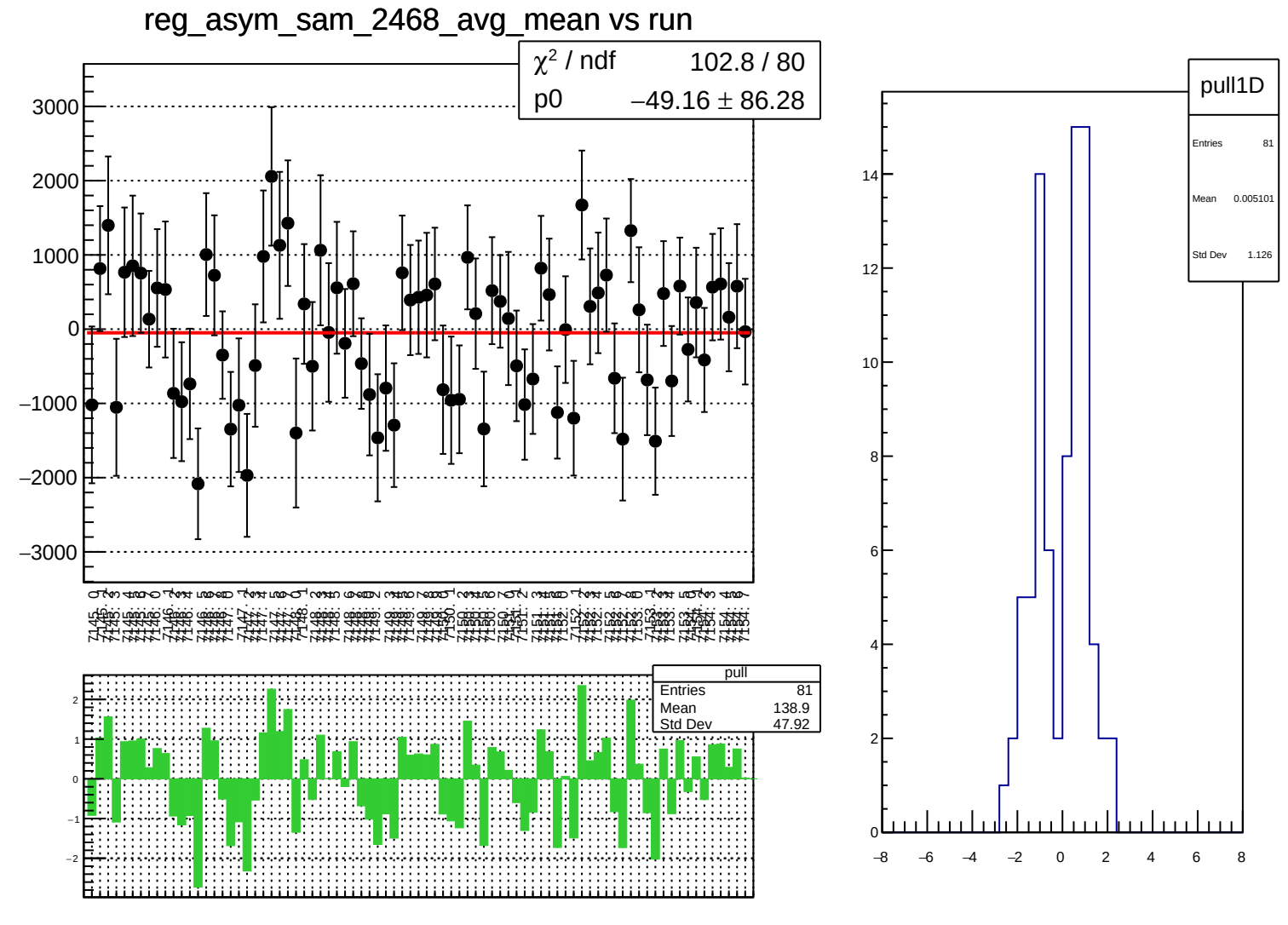

pull1D
Entries 81
Mean 0.001091
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

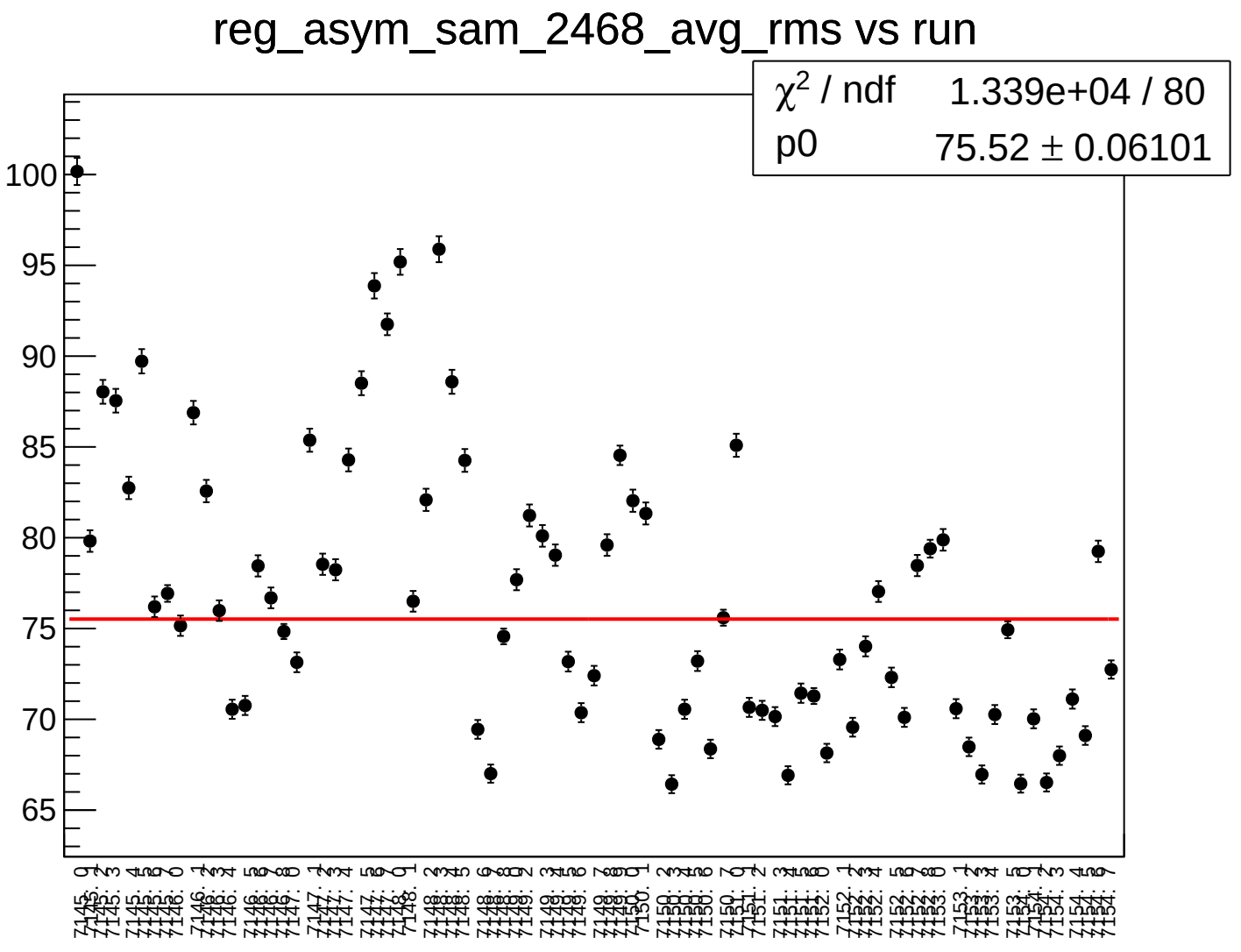

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 3329 / 80
p0 299.9 ± 0.2415
330
320
310
300
290
280
270
260

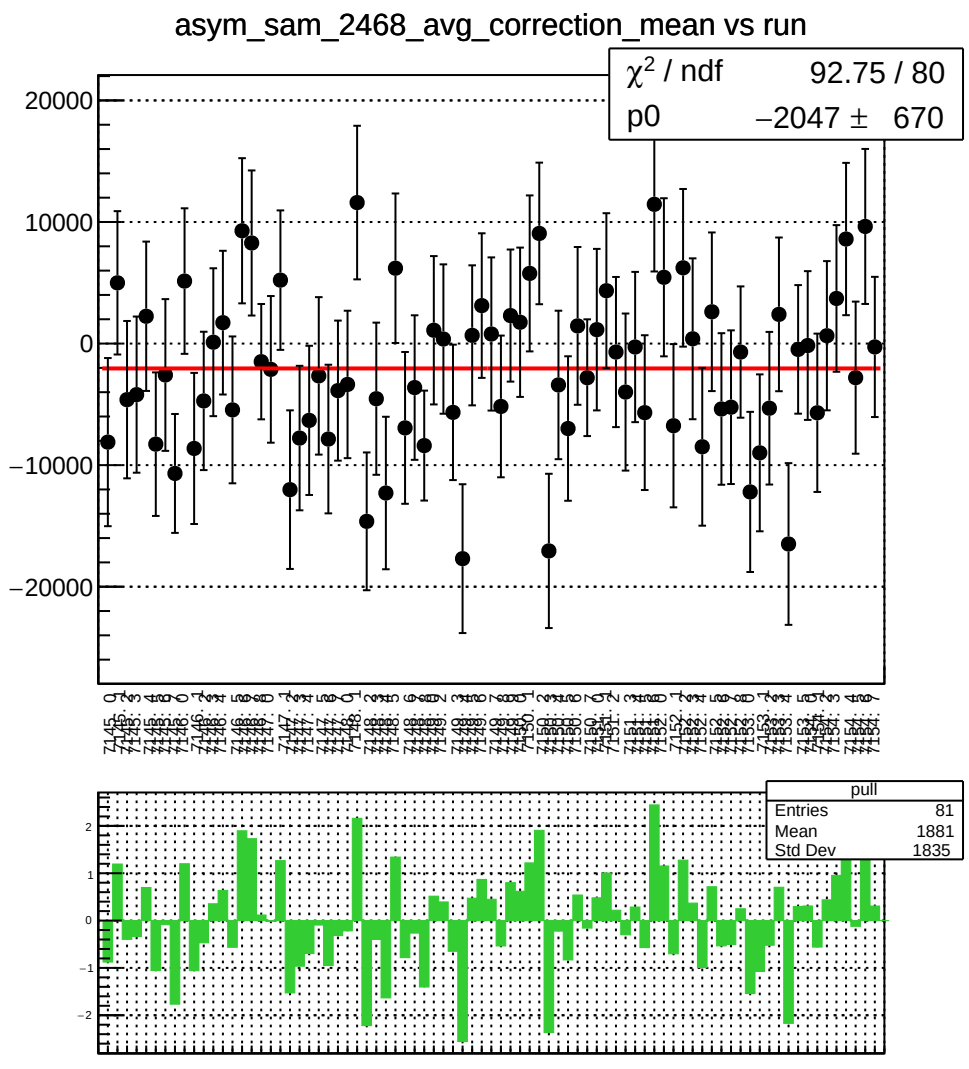

asym_sam_1357_avg_mean vs run
χ² / ndf 88.81 / 80
p0 1022 ± 346.1
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −7208
Std Dev 7258
2
1
0
−1
−2

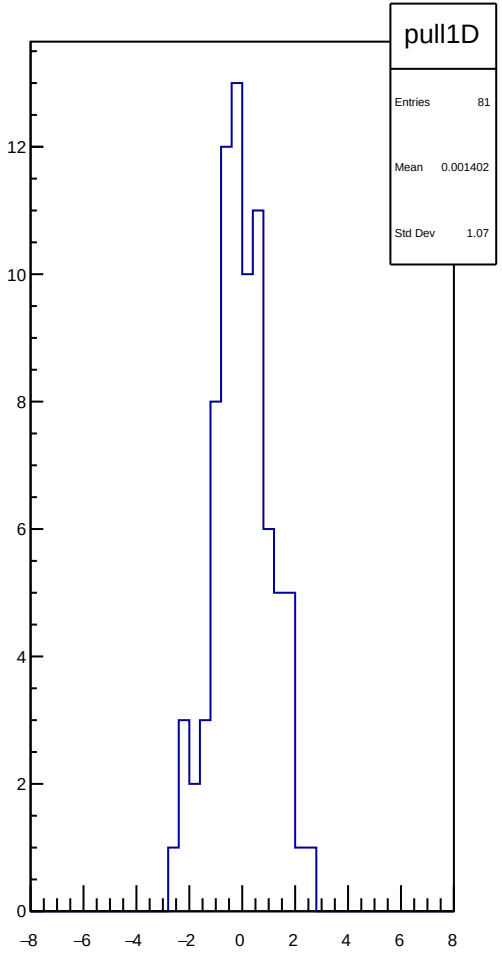

pull1D
Entries 81
Mean 0.0003124
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

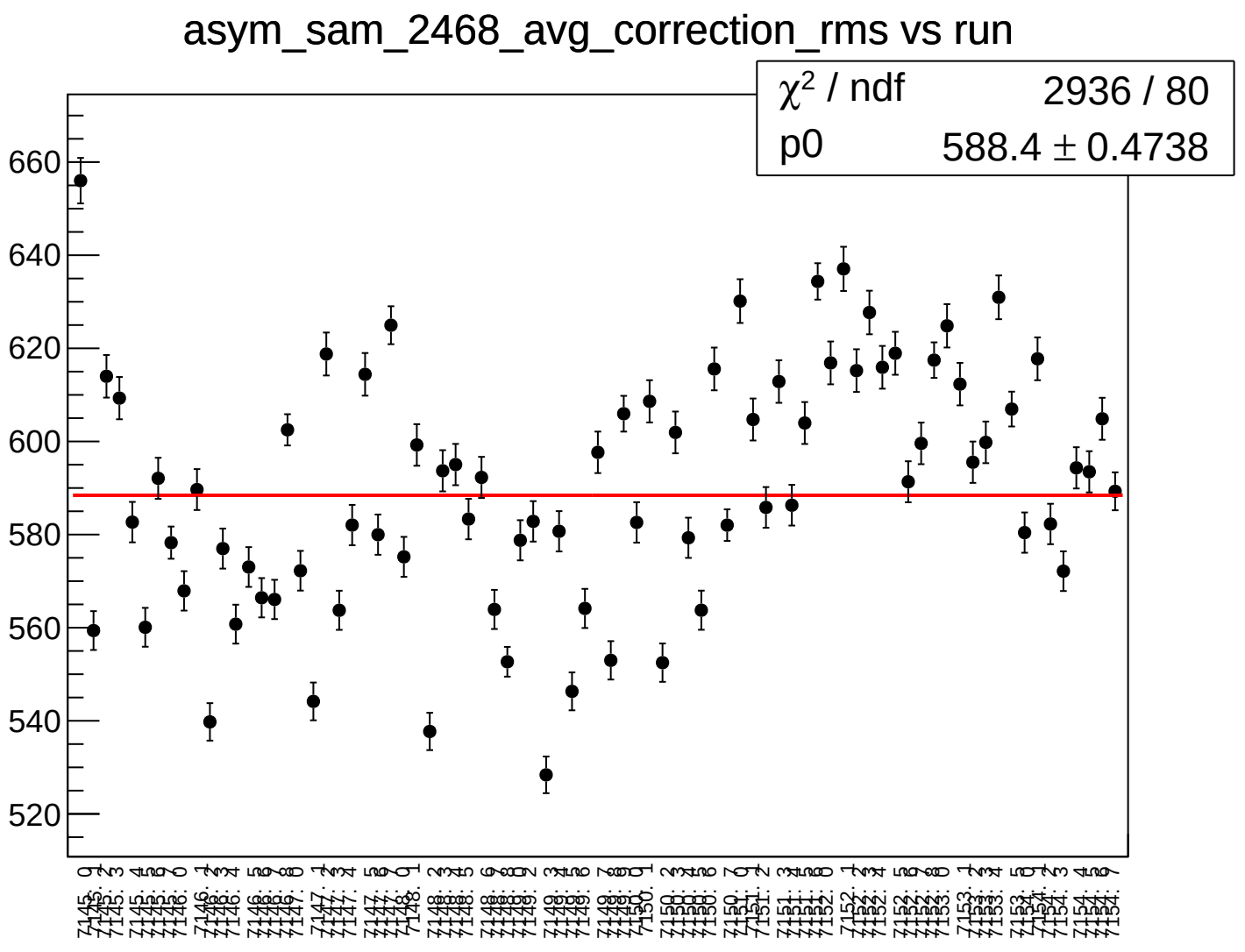

asym_sam_1357_avg_rms vs run
χ² / ndf 3152 / 80
p0 304 ± 0.2447
340
330
320
310
300
290
280
270

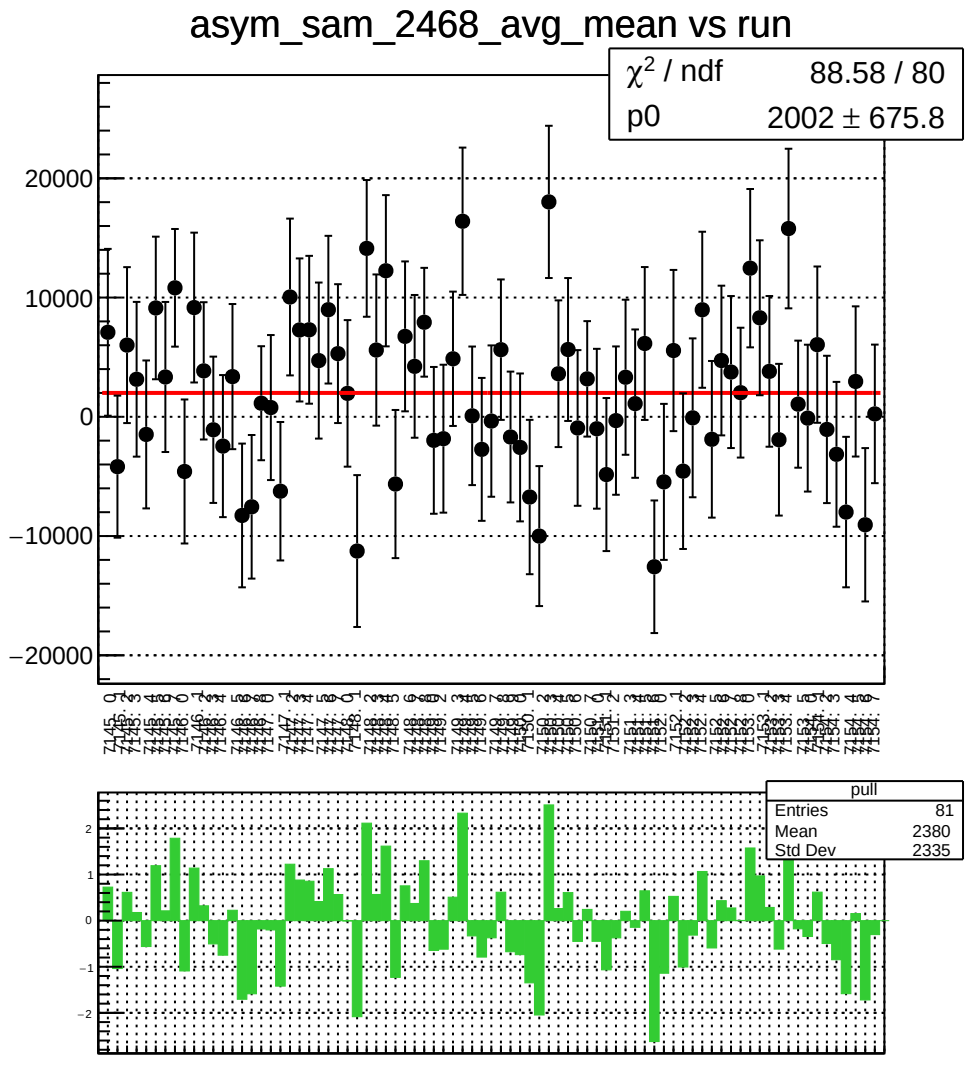

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 102.8 / 80
p0 −49.16 ± 86.28
pull
Entries 81
Mean 138.9
Std Dev 47.92
pull1D
Entries 81
Mean 0.005101
Std Dev 1.126

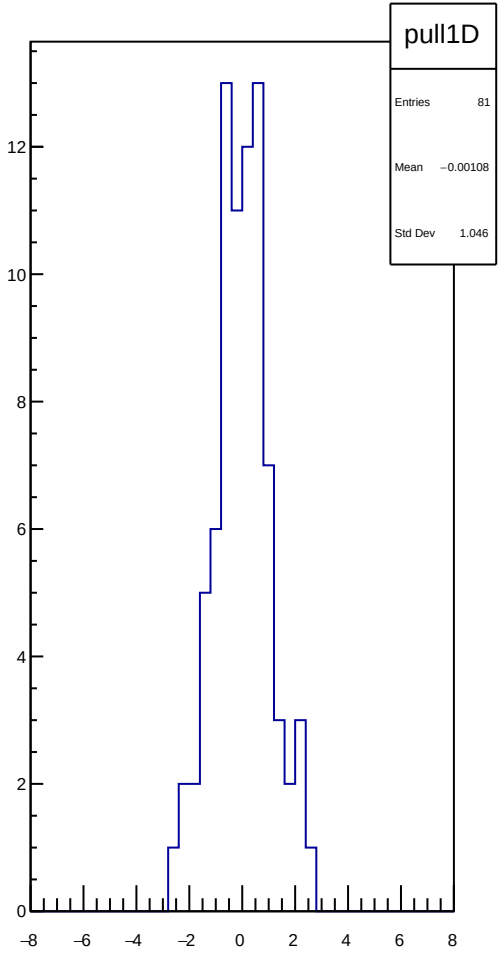

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.339e+04 / 80
p0 75.52 ± 0.06101
100
95
90
85
80
75
70
65

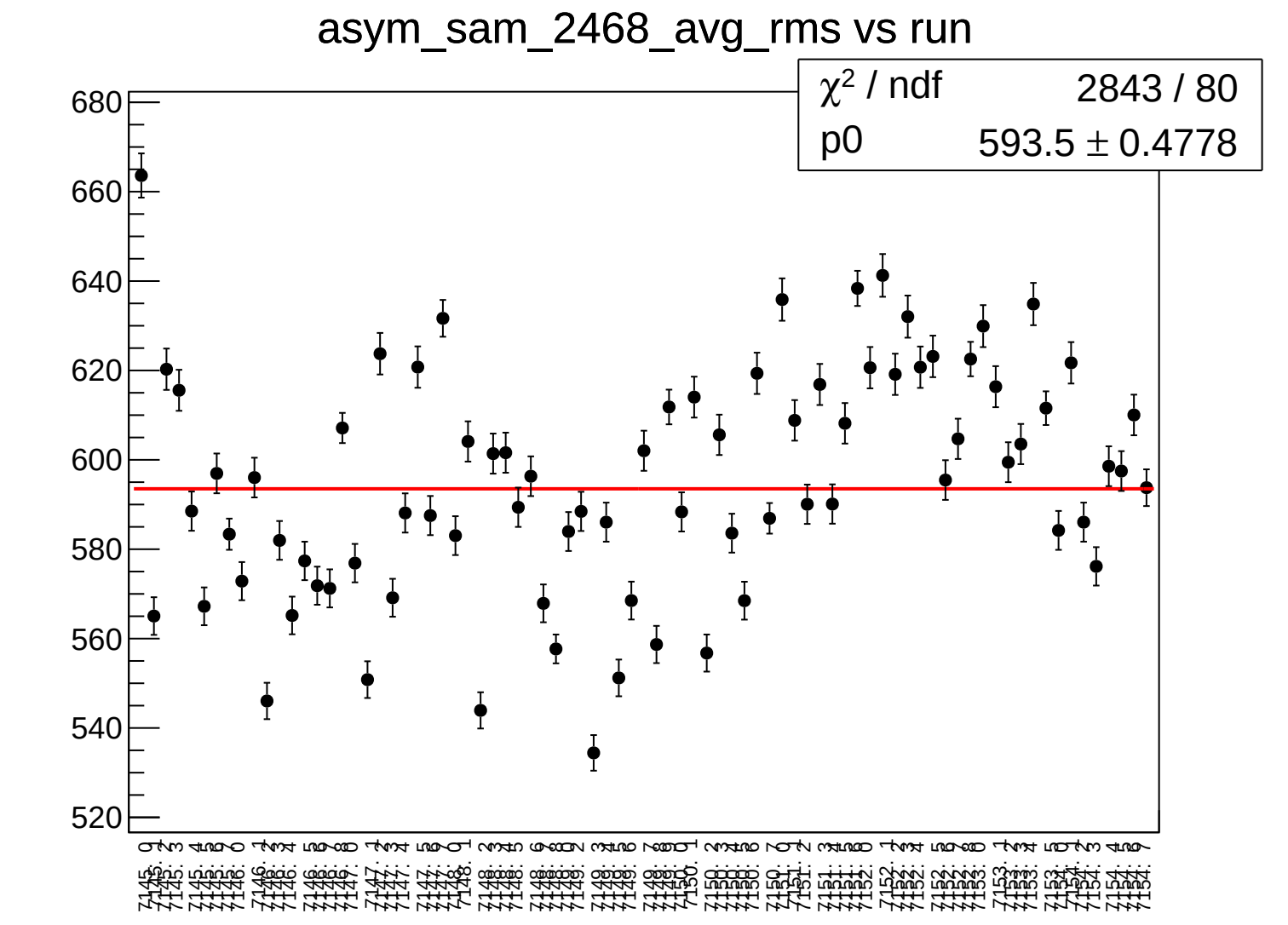

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 92.75 / 80
p0 −2047 ± 670
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 1881
Std Dev 1835
2
1
0
−1
−2

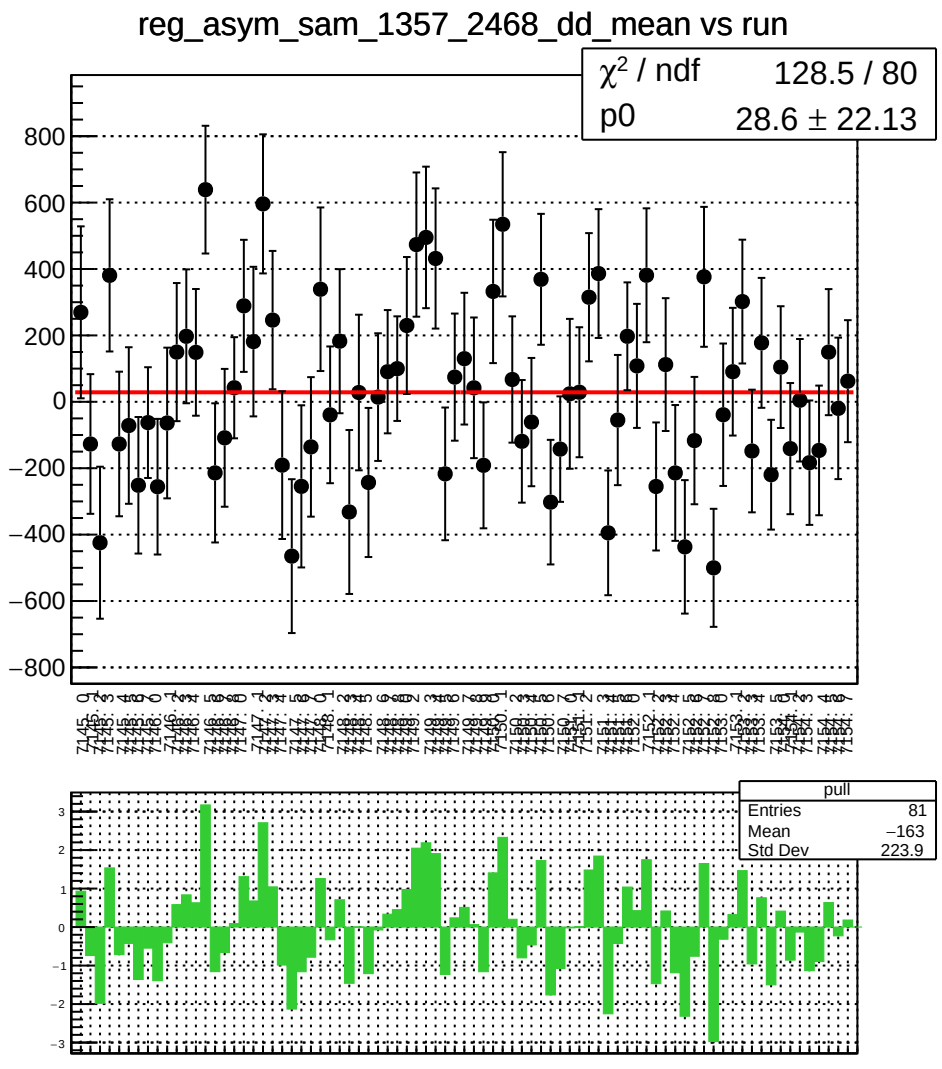

pull1D
Entries 81
Mean 0.001402
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

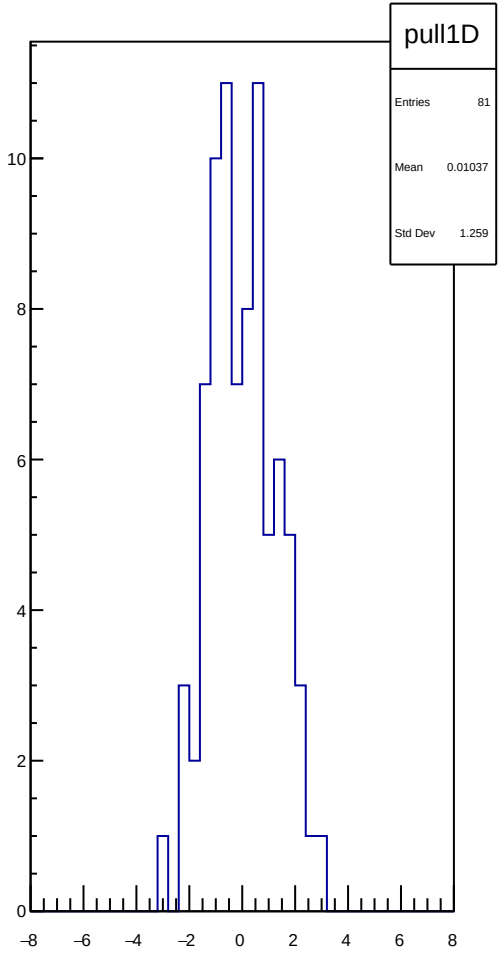

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 2936 / 80
p0 588.4 ± 0.4738
660
640
620
600
580
560
540
520

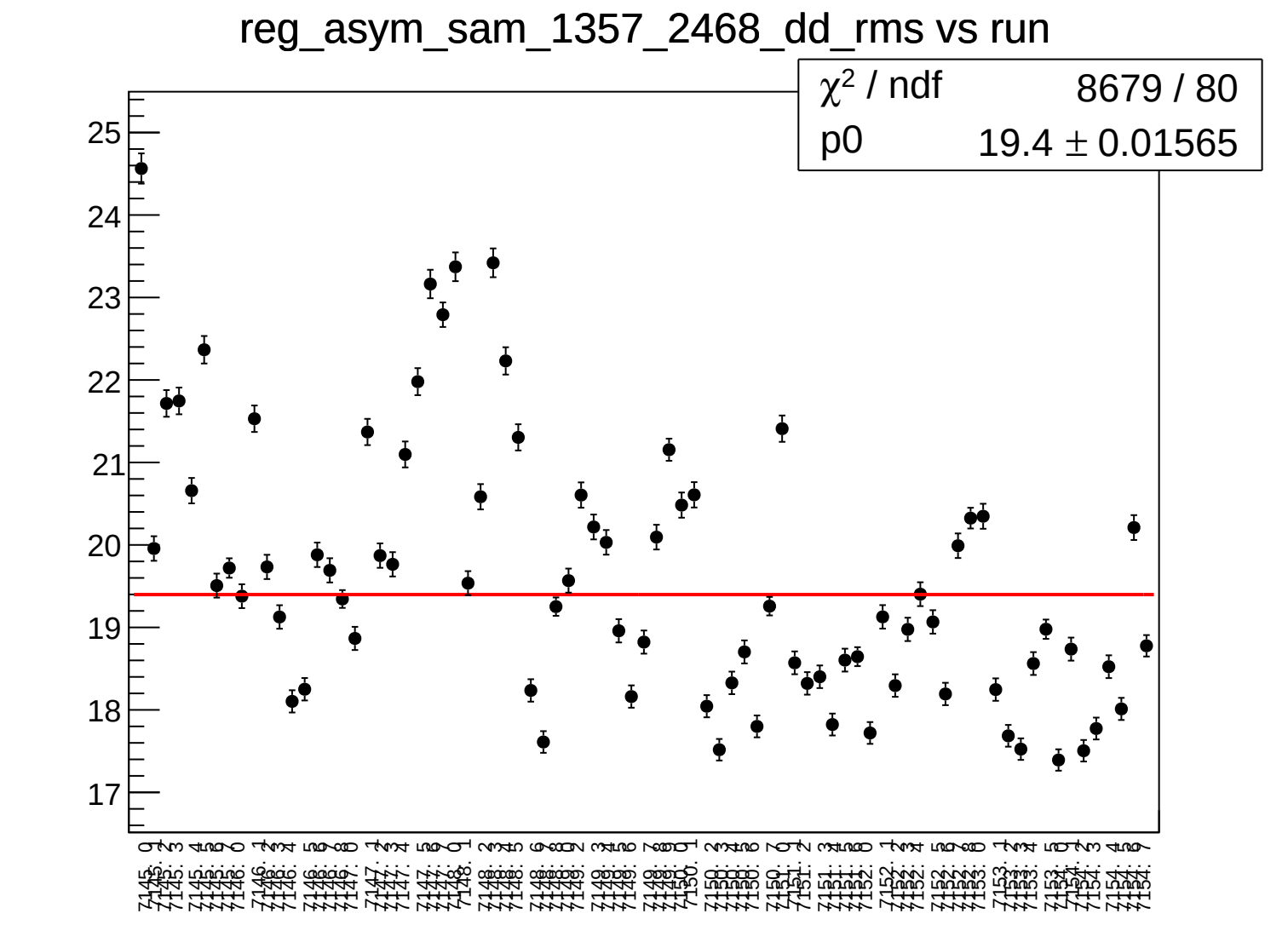

asym_sam_2468_avg_mean vs run
χ² / ndf 88.58 / 80
p0 2002 ± 675.8
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 2380
Std Dev 2335
2
1
0
−1
−2

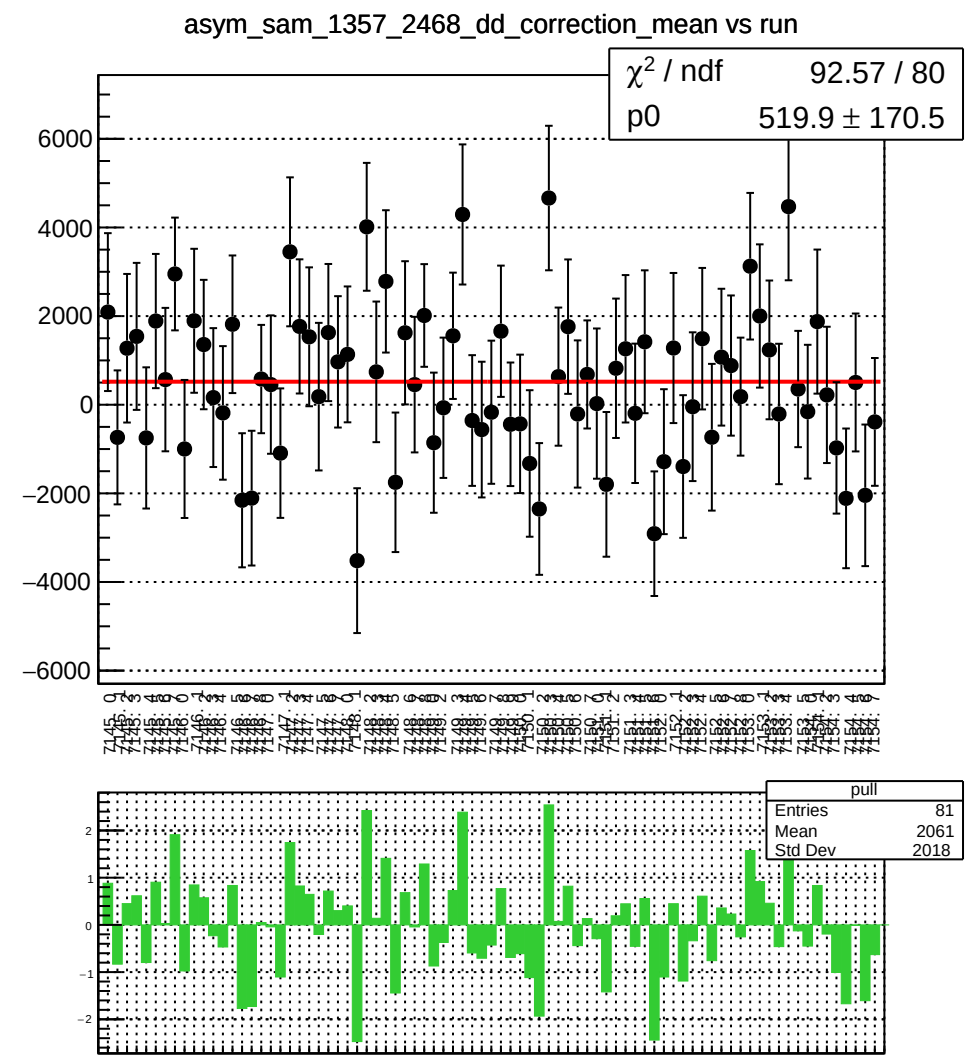

pull1D
Entries 81
Mean −0.00108
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

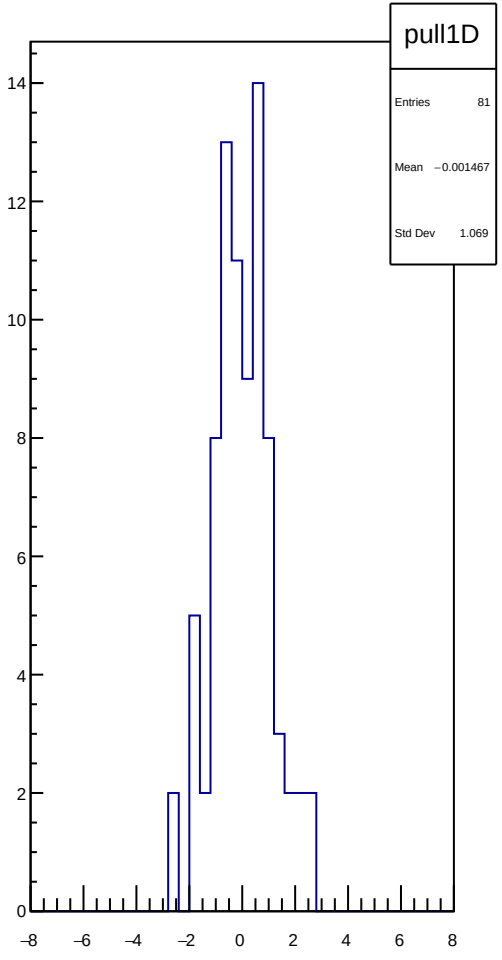

asym_sam_2468_avg_rms vs run
χ² / ndf 2843 / 80
p0 593.5 ± 0.4778
680
660
640
620
600
580
560
540
520

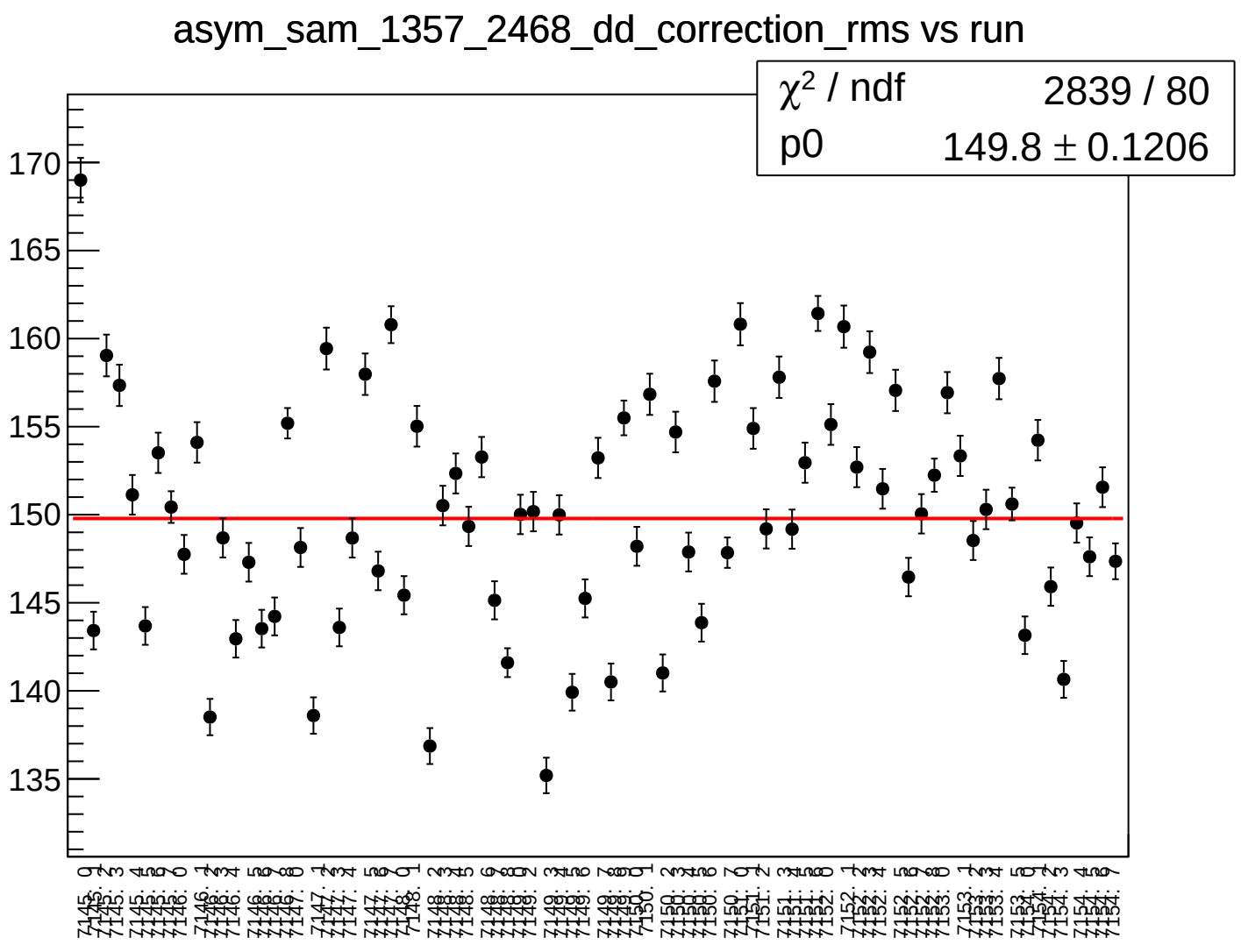

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 128.5 / 80
p0 28.6 ± 22.13
pull
Entries 81
Mean −163
Std Dev 223.9

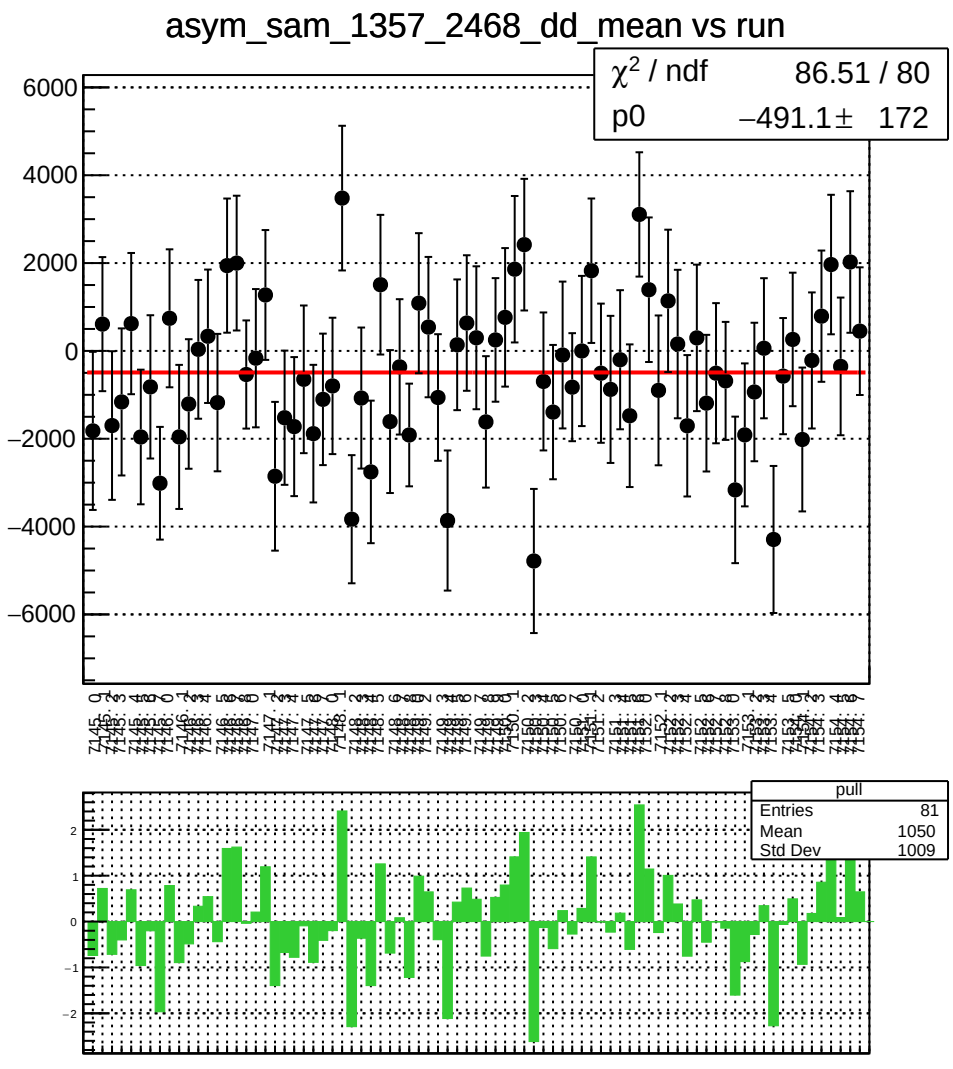

pull1D
Entries 81
Mean 0.01037
Std Dev 1.259

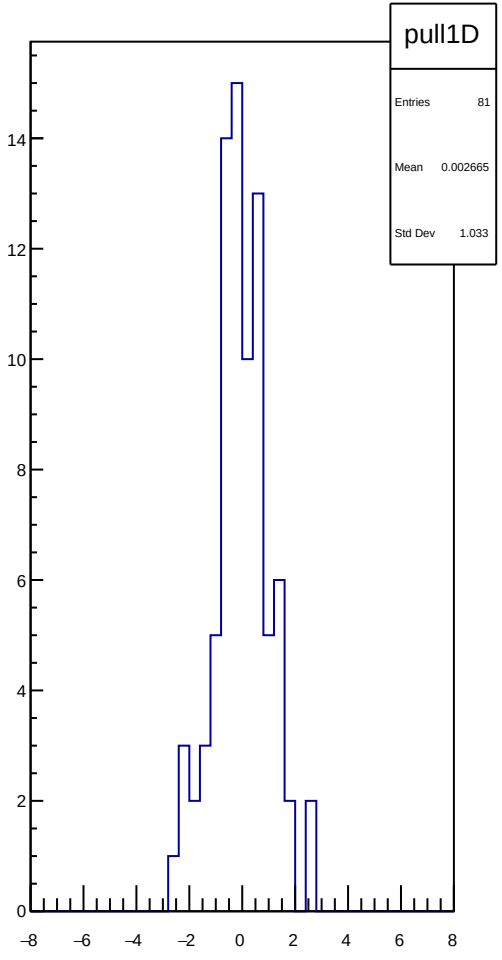

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 8679 / 80
p0 19.4 ± 0.01565
25
24
23
22
21
20
19
18
17

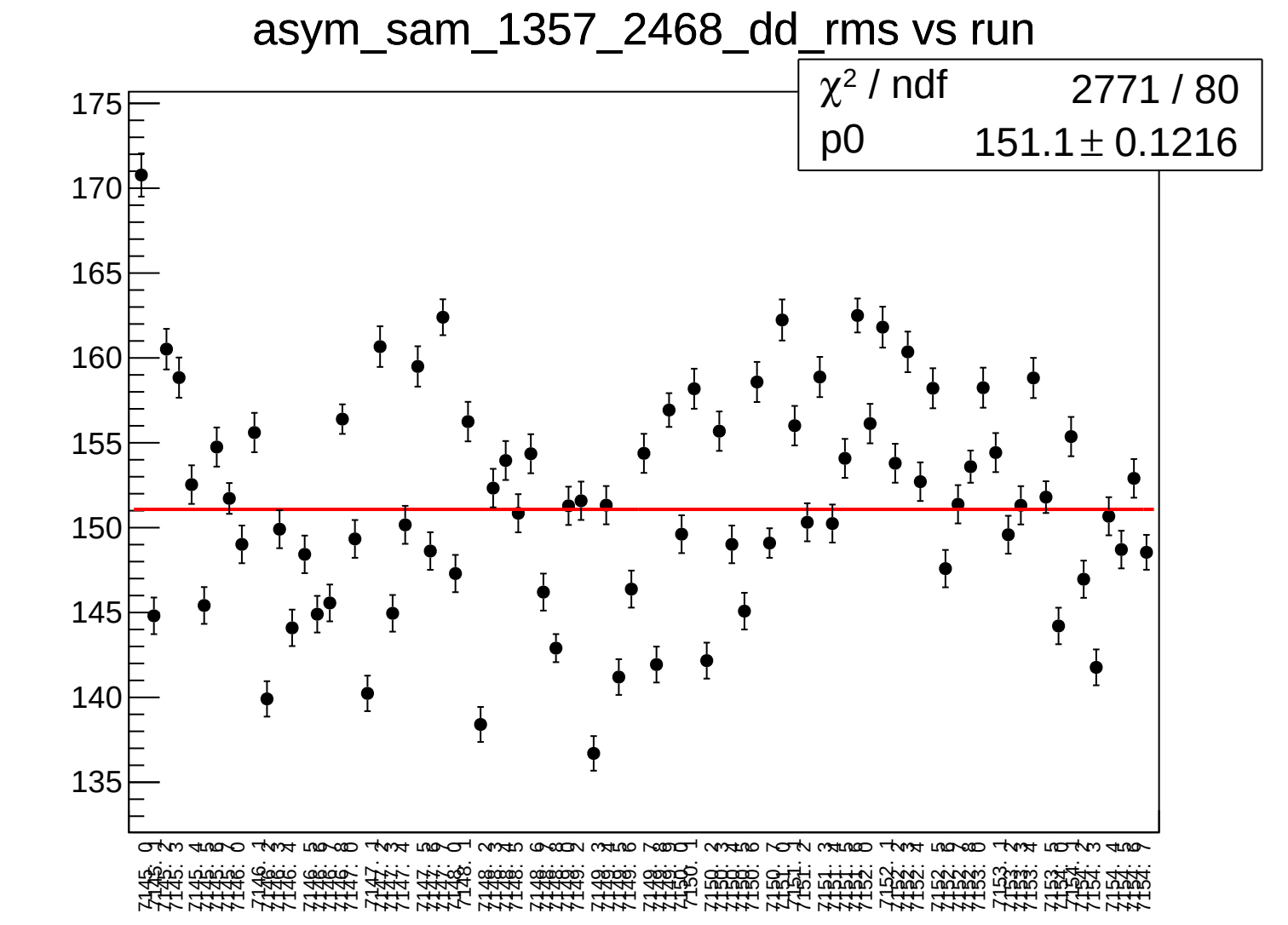

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 92.57 / 80
p0 519.9 ± 170.5
pull
Entries 81
Mean 2061
Std Dev 2018

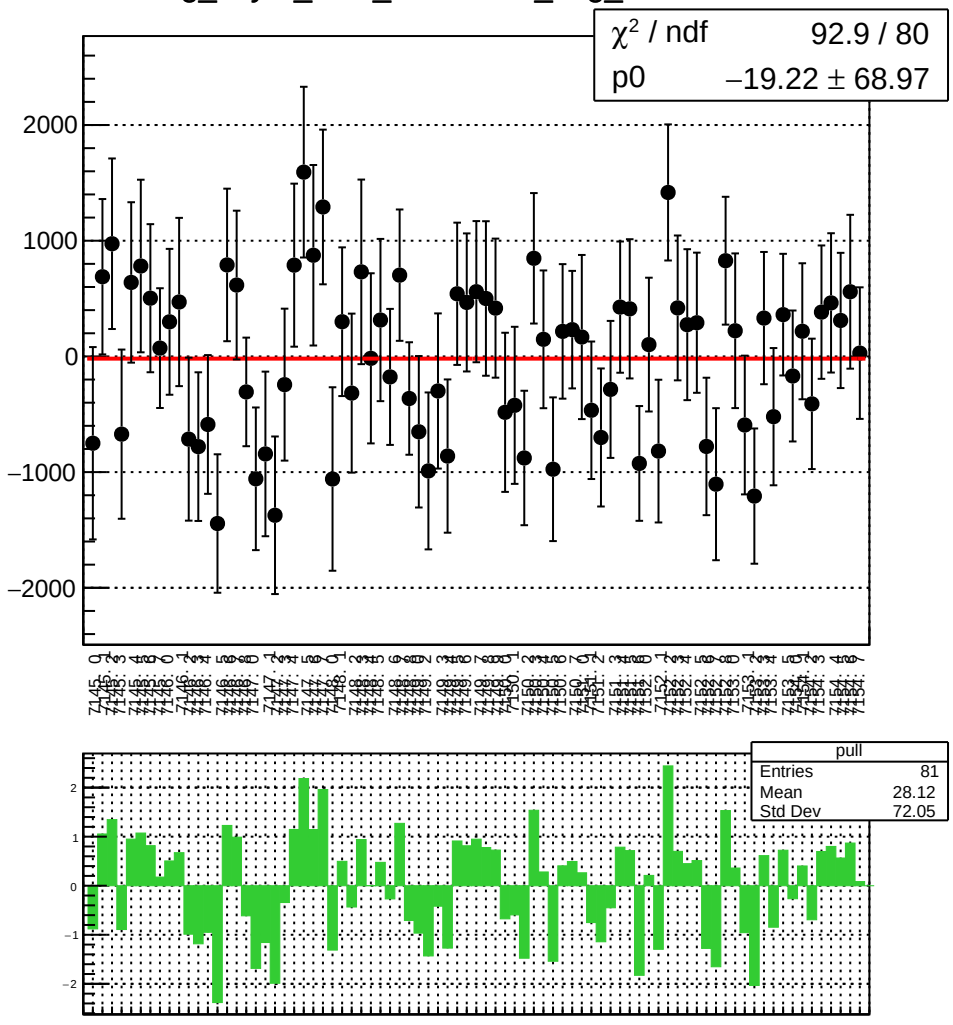

pull1D
Entries 81
Mean −0.001467
Std Dev 1.069

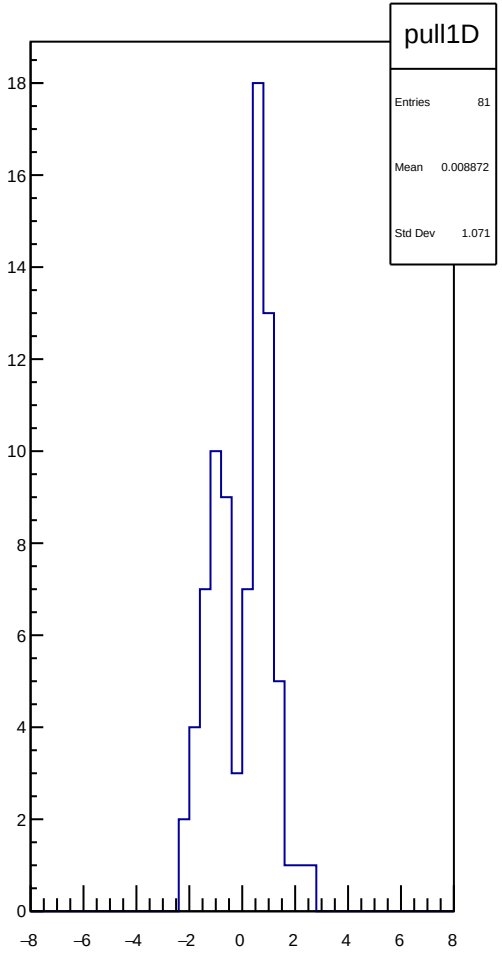

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 2839 / 80
p0 149.8 ± 0.1206
170
165
160
155
150
145
140
135

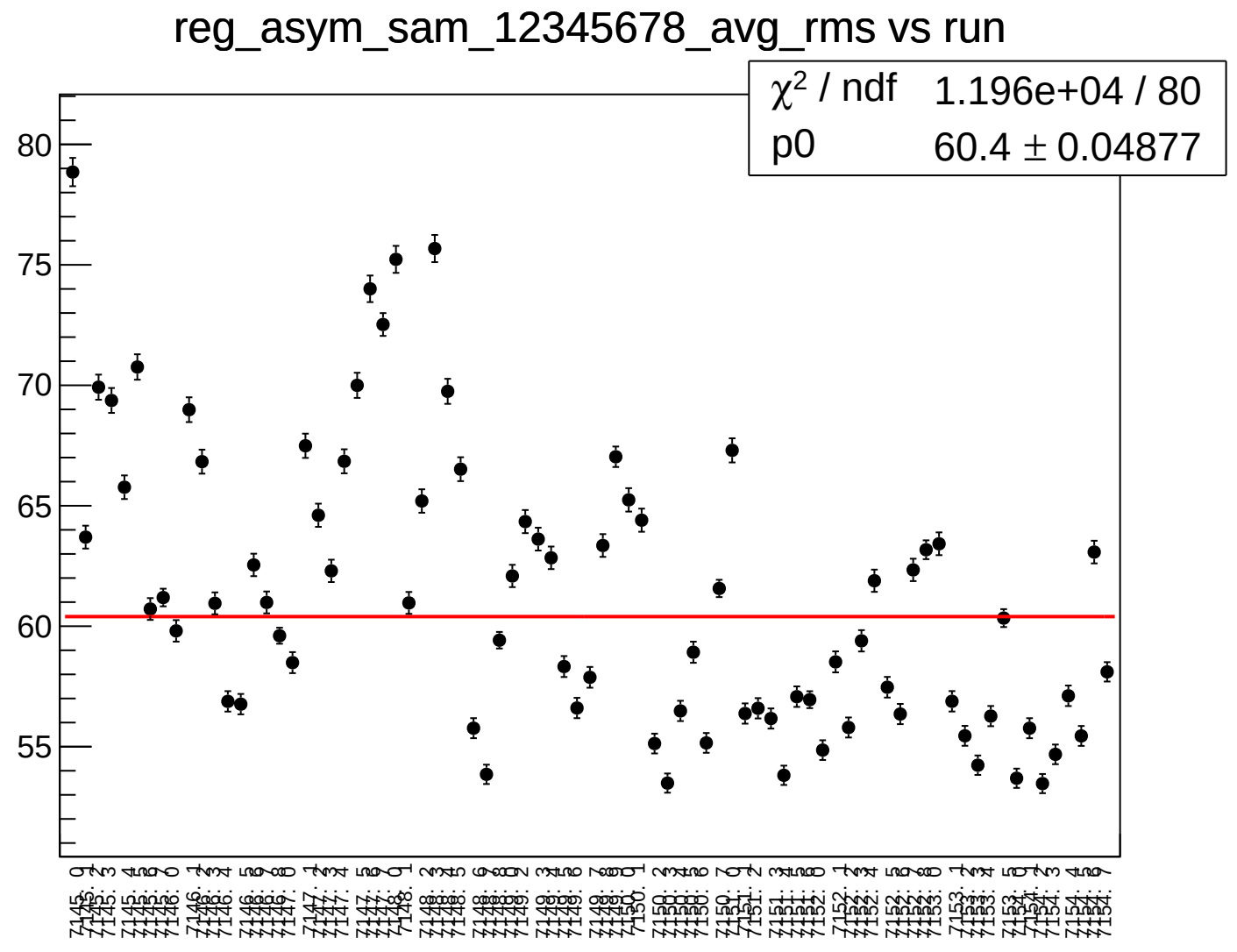

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 86.51 / 80
p0 −491.1± 172
pull
Entries 81
Mean 1050
Std Dev 1009

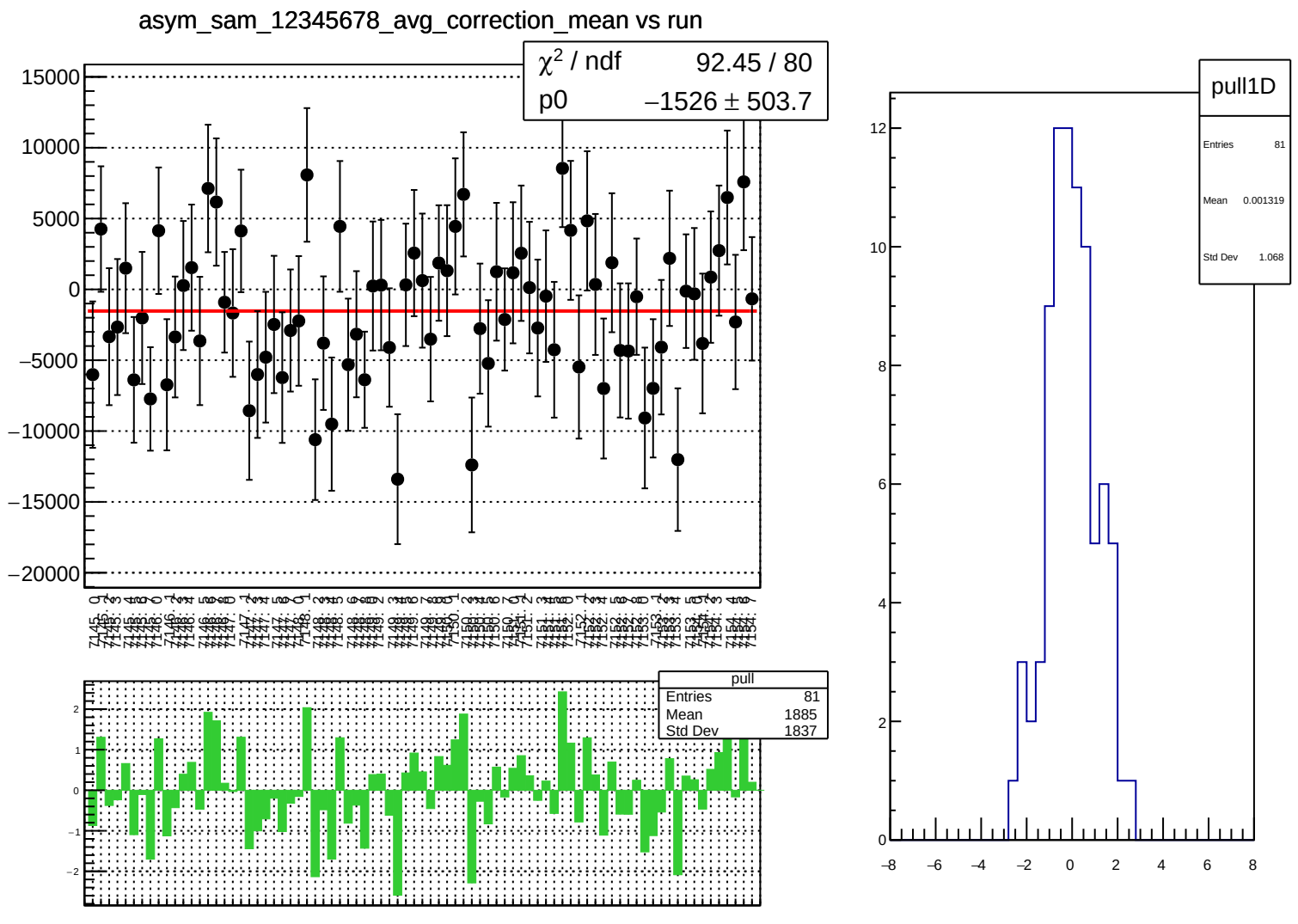

pull1D
Entries 81
Mean 0.002665
Std Dev 1.033

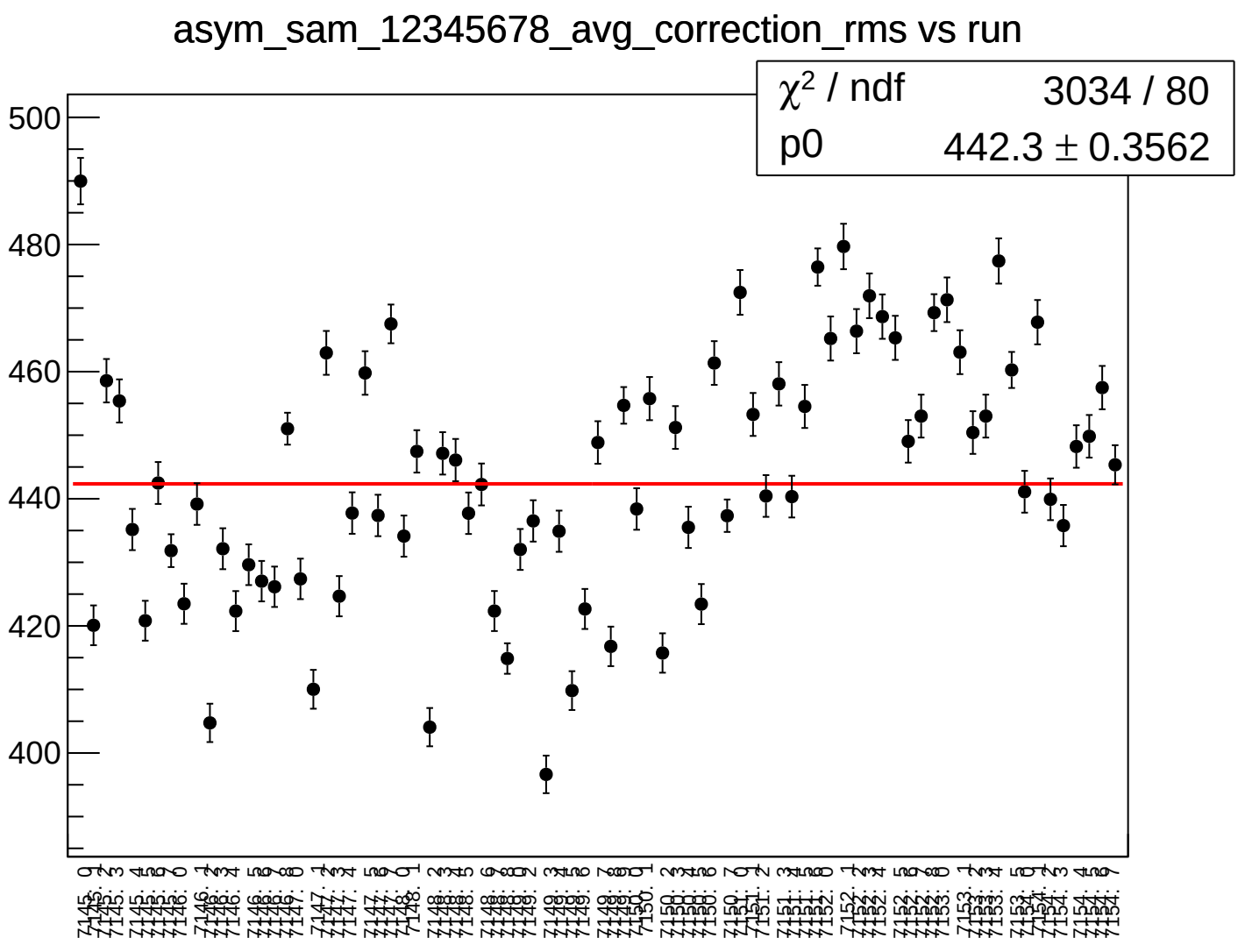

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2771 / 80
p0 151.1 ± 0.1216
175
170
165
160
155
150
145
140
135

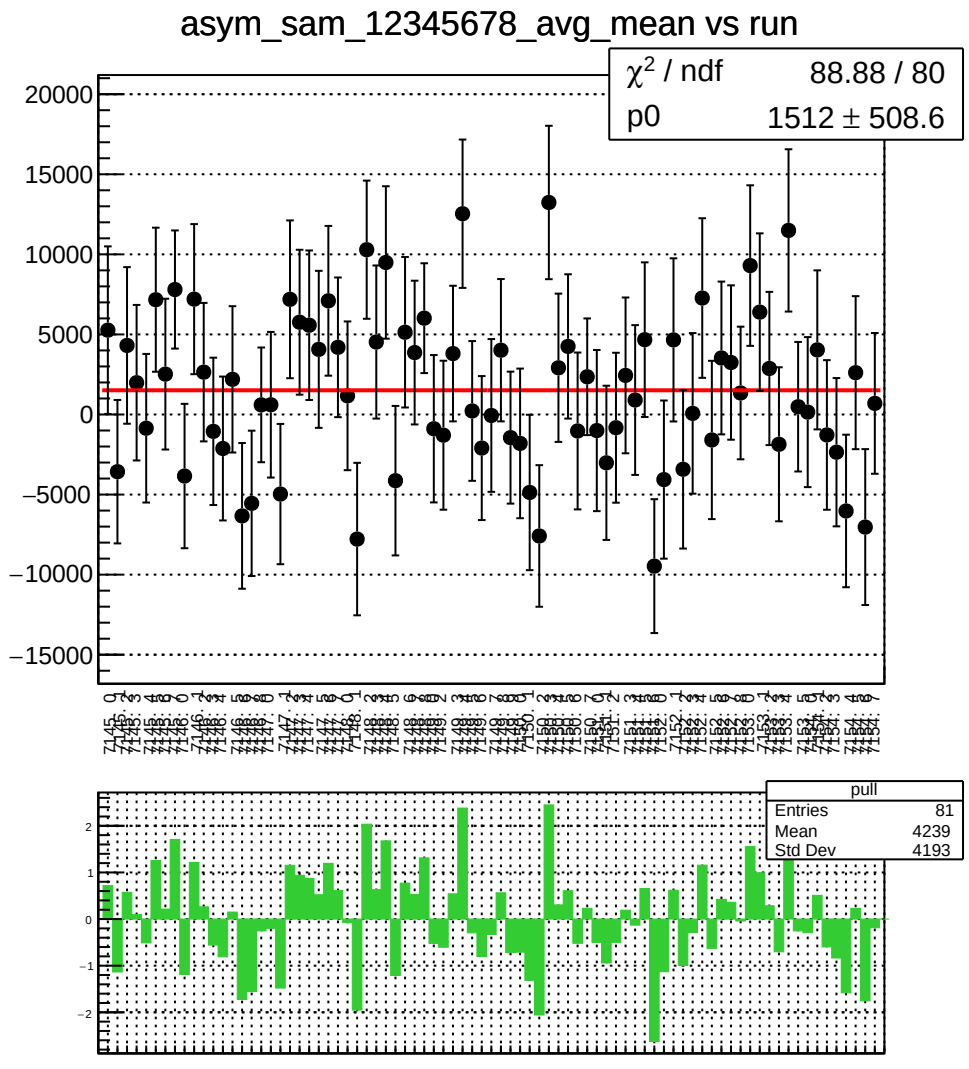

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 92.9 / 80
p0 −19.22 ± 68.97
pull
Entries 81
Mean 28.12
Std Dev 72.05

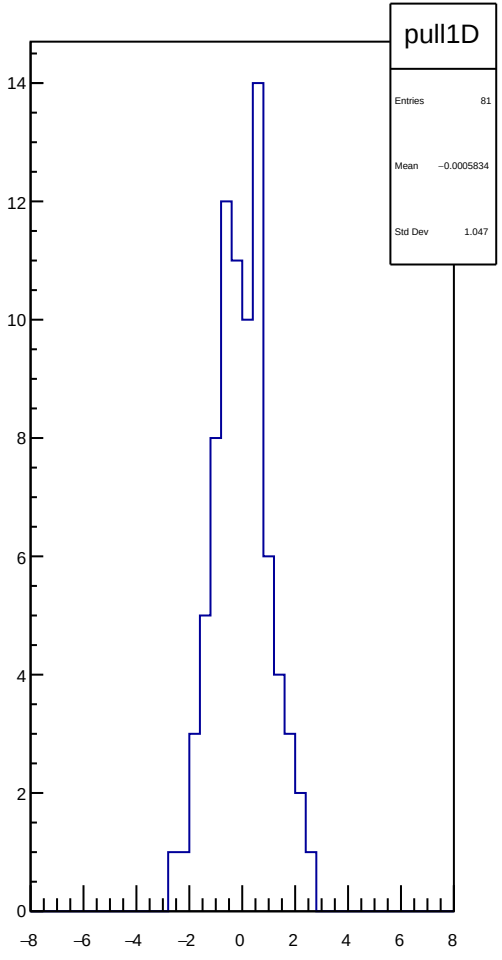

pull1D
Entries 81
Mean 0.008872
Std Dev 1.071

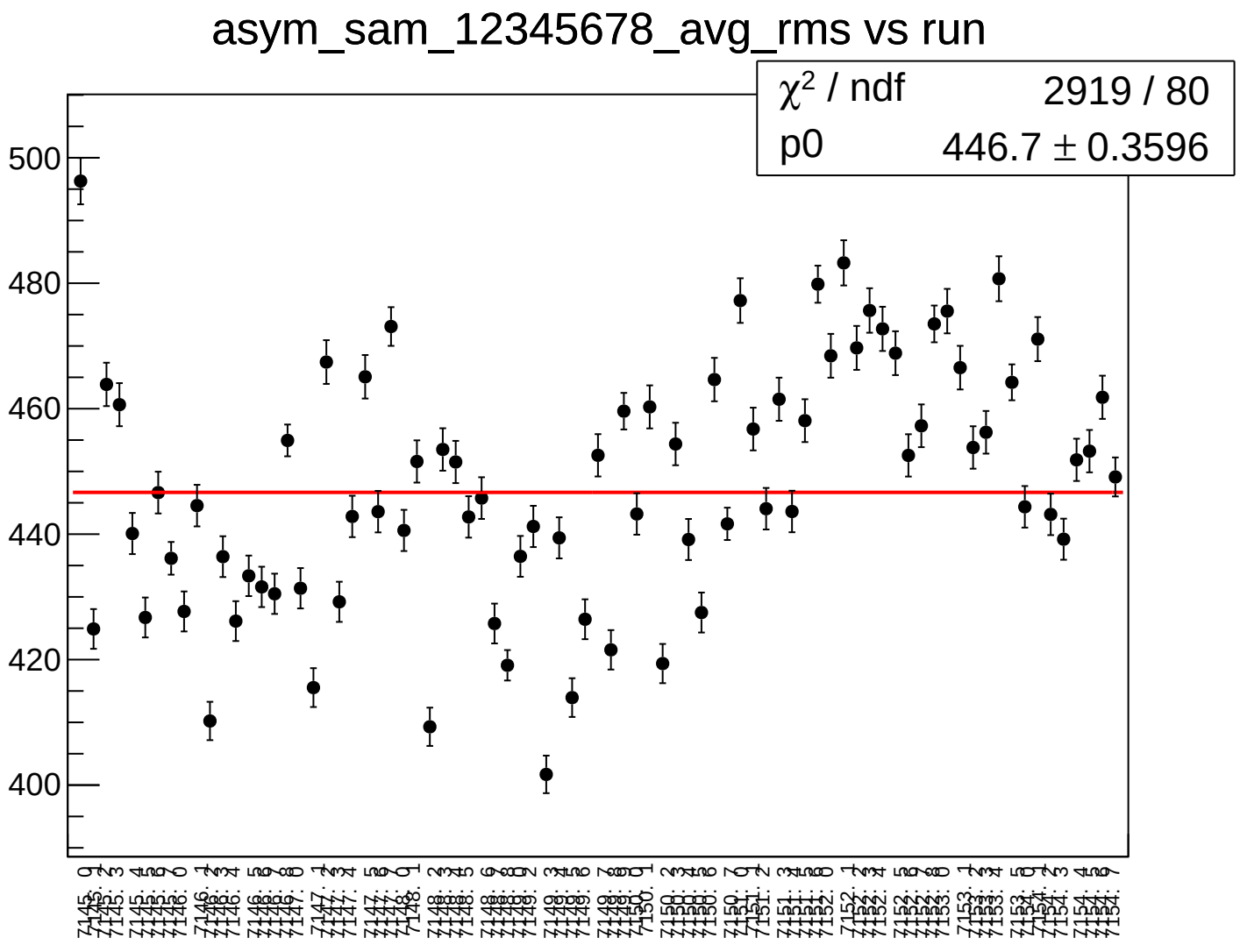

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.196e+04 / 80
p0 60.4 ± 0.04877
80
75
70
65
60
55

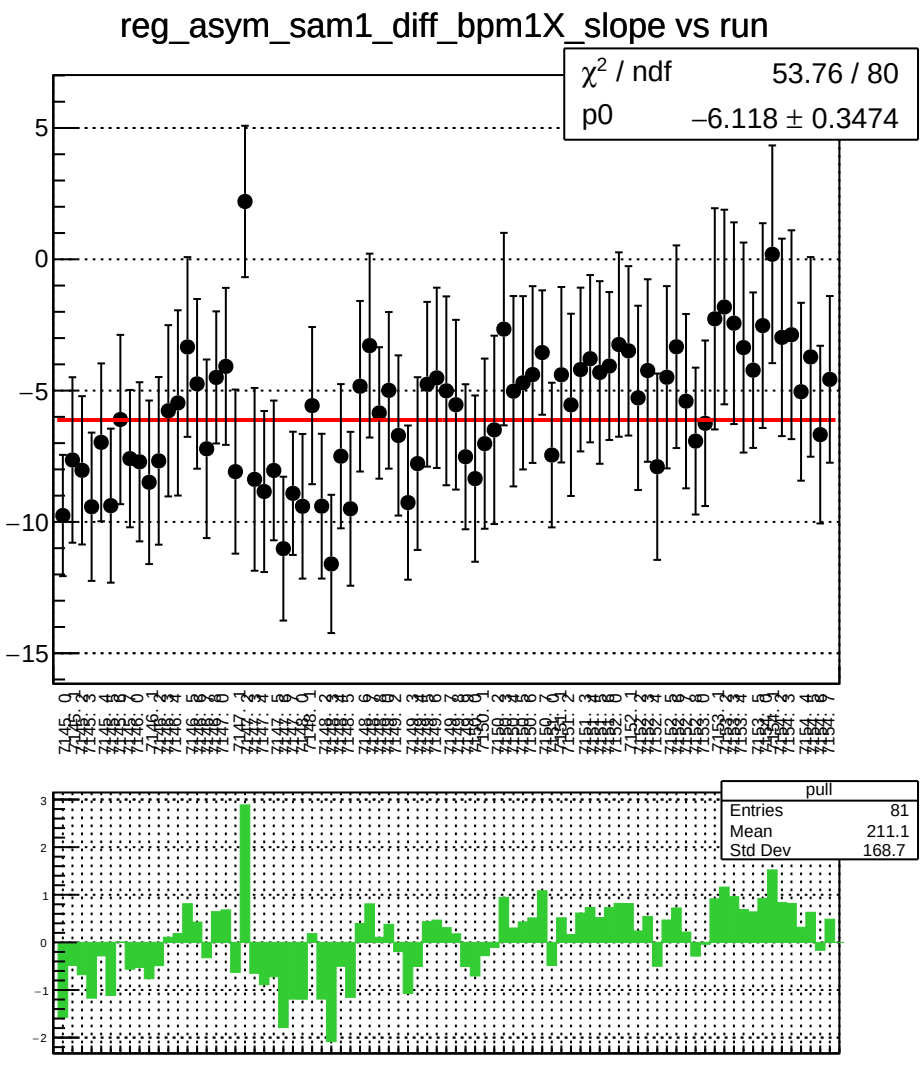

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 92.45 / 80
p0 −1526 ± 503.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 81
Mean 1885
Std Dev 1837
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.001319
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

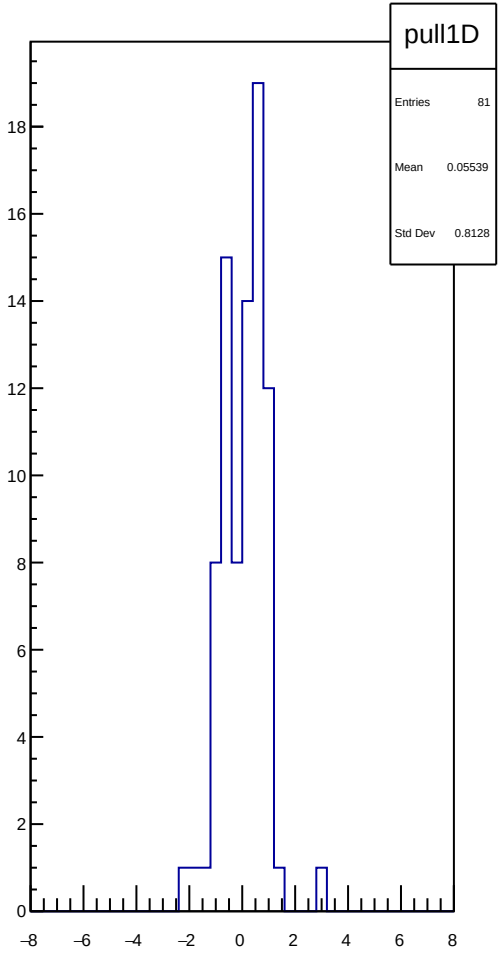

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 3034 / 80
p0 442.3 ± 0.3562
500
480
460
440
420
400

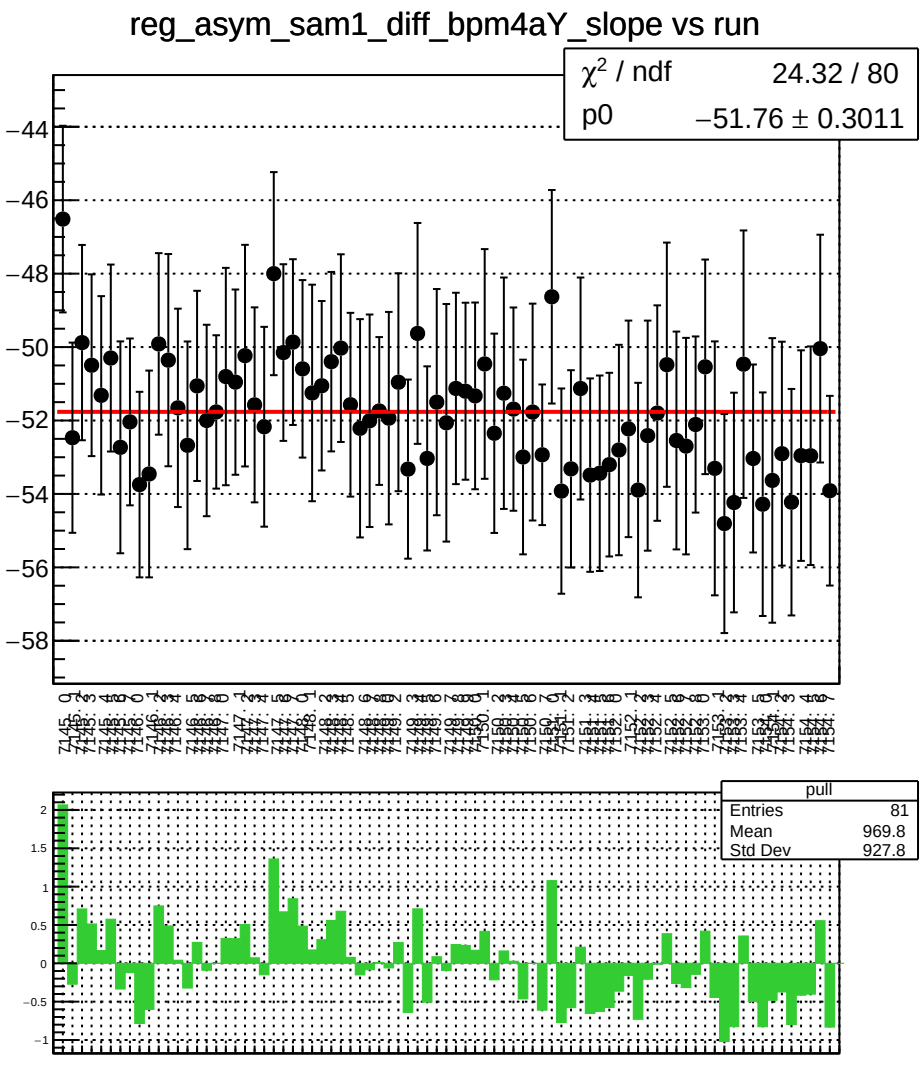

asym_sam_12345678_avg_mean vs run
χ² / ndf 88.88 / 80
p0 1512 ± 508.6
pull
Entries 81
Mean 4239
Std Dev 4193

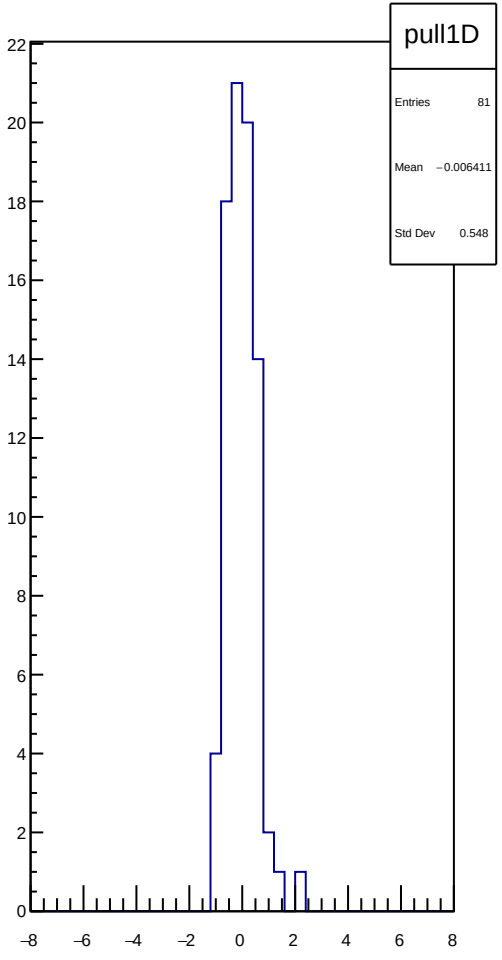

pull1D
Entries 81
Mean −0.0005834
Std Dev 1.047

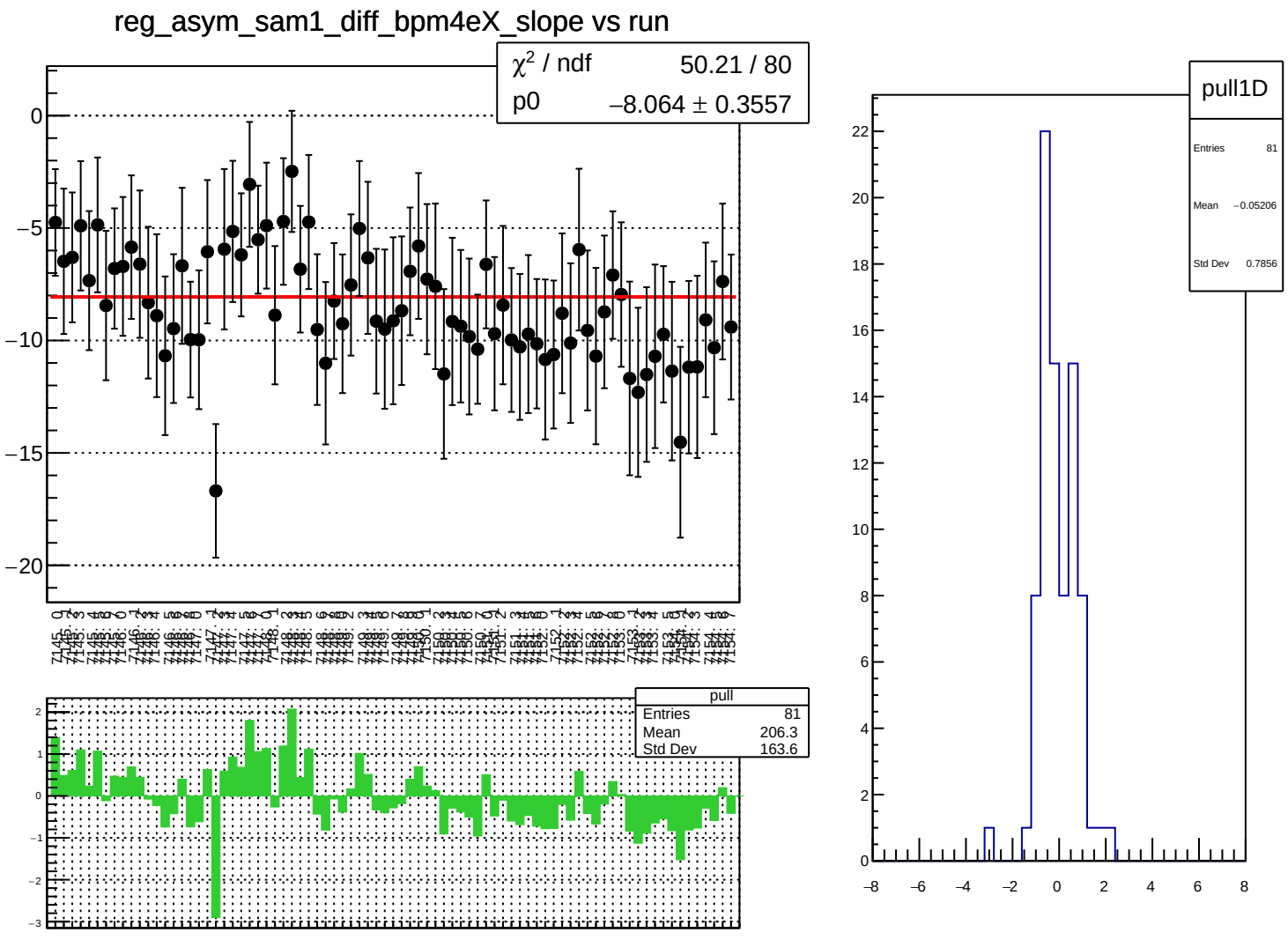

asym_sam_12345678_avg_rms vs run
χ² / ndf 2919 / 80
p0 446.7 ± 0.3596
500
480
460
440
420
400

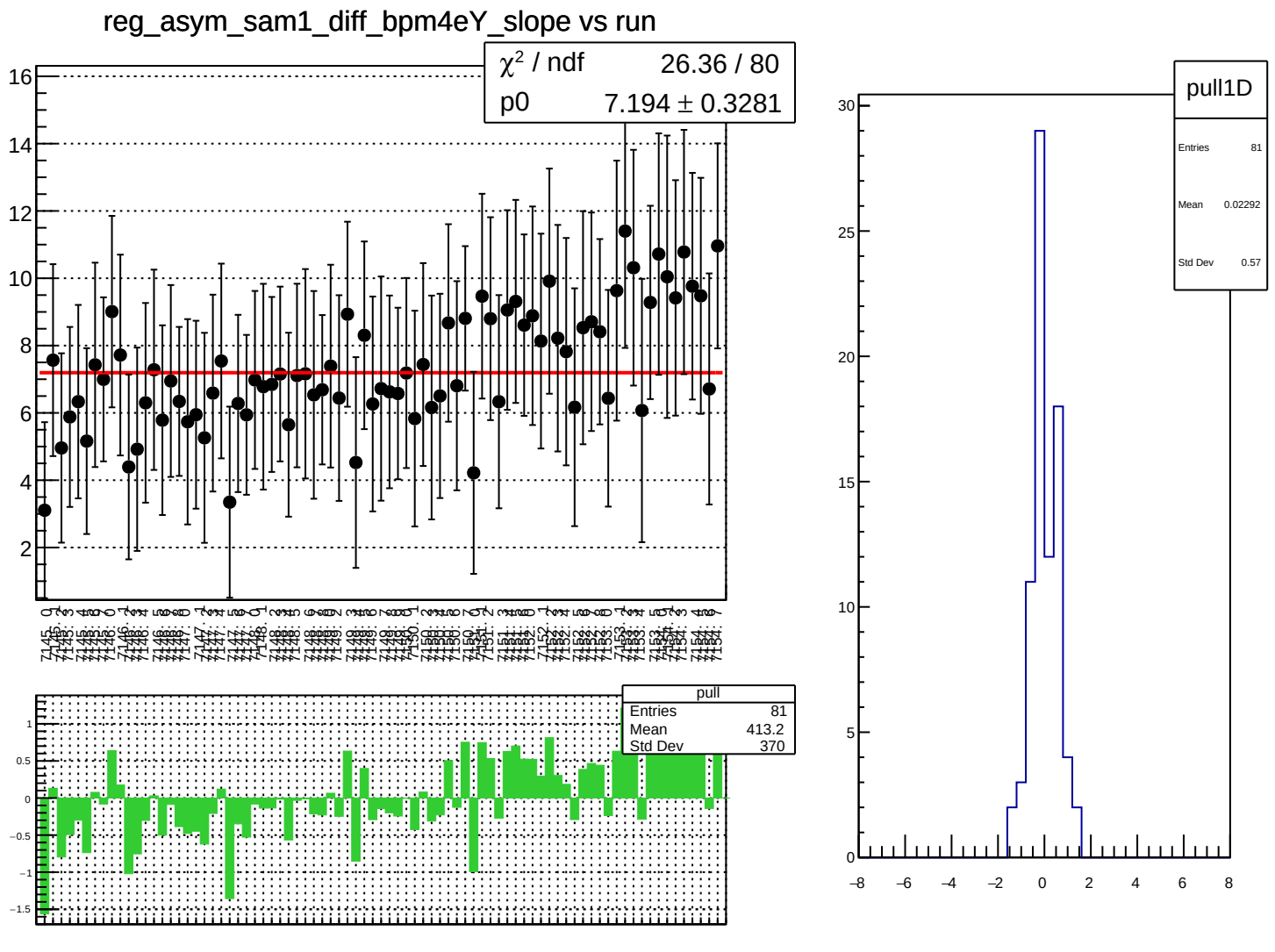

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 53.76 / 80
p0 −6.118 ± 0.3474
pull
Entries 81
Mean 211.1
Std Dev 168.7

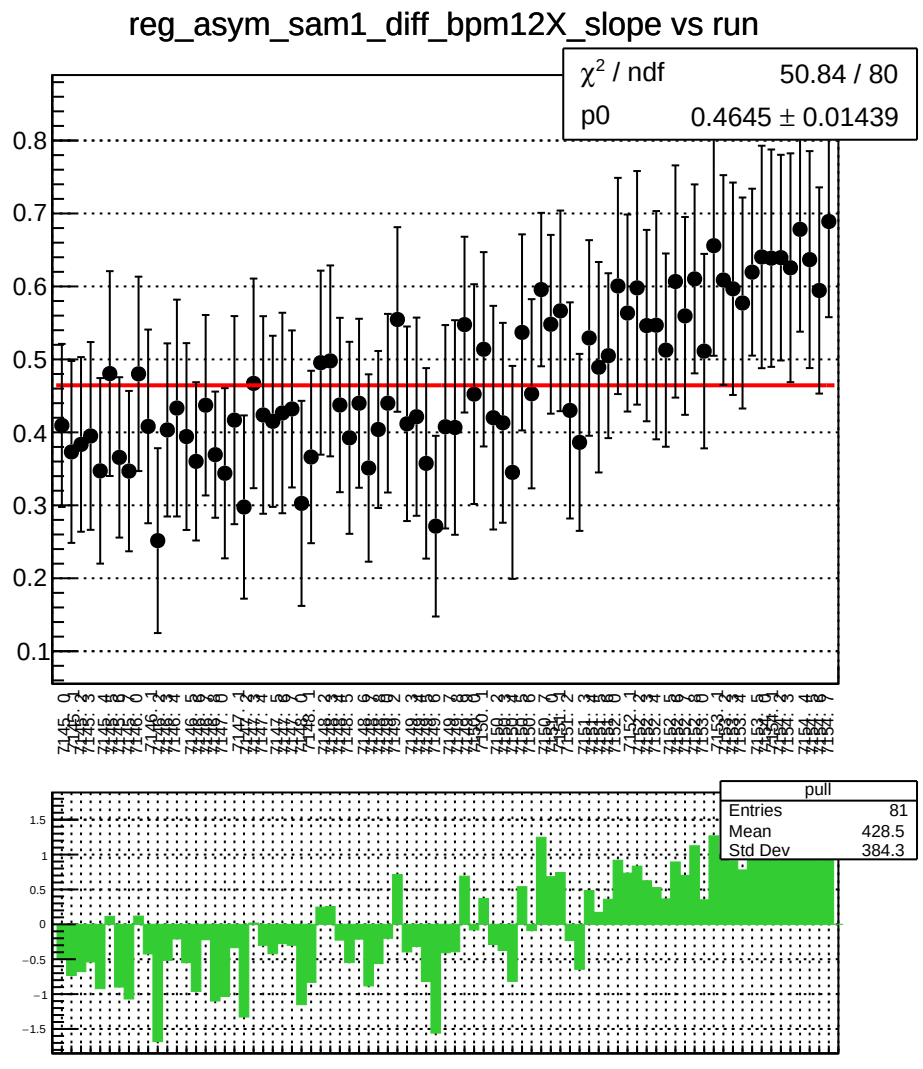

pull1D
Entries 81
Mean 0.05539
Std Dev 0.8128

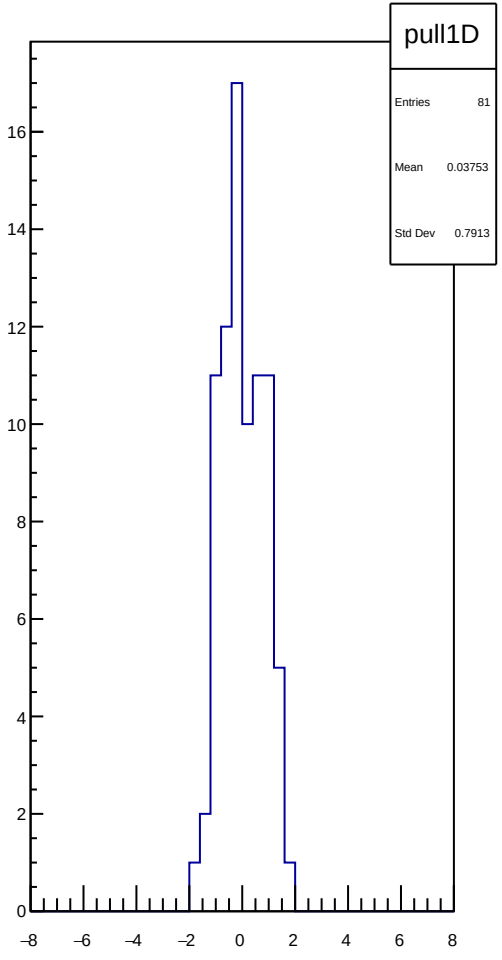

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 24.32 / 80
p0 −51.76 ± 0.3011
pull
Entries 81
Mean 969.8
Std Dev 927.8

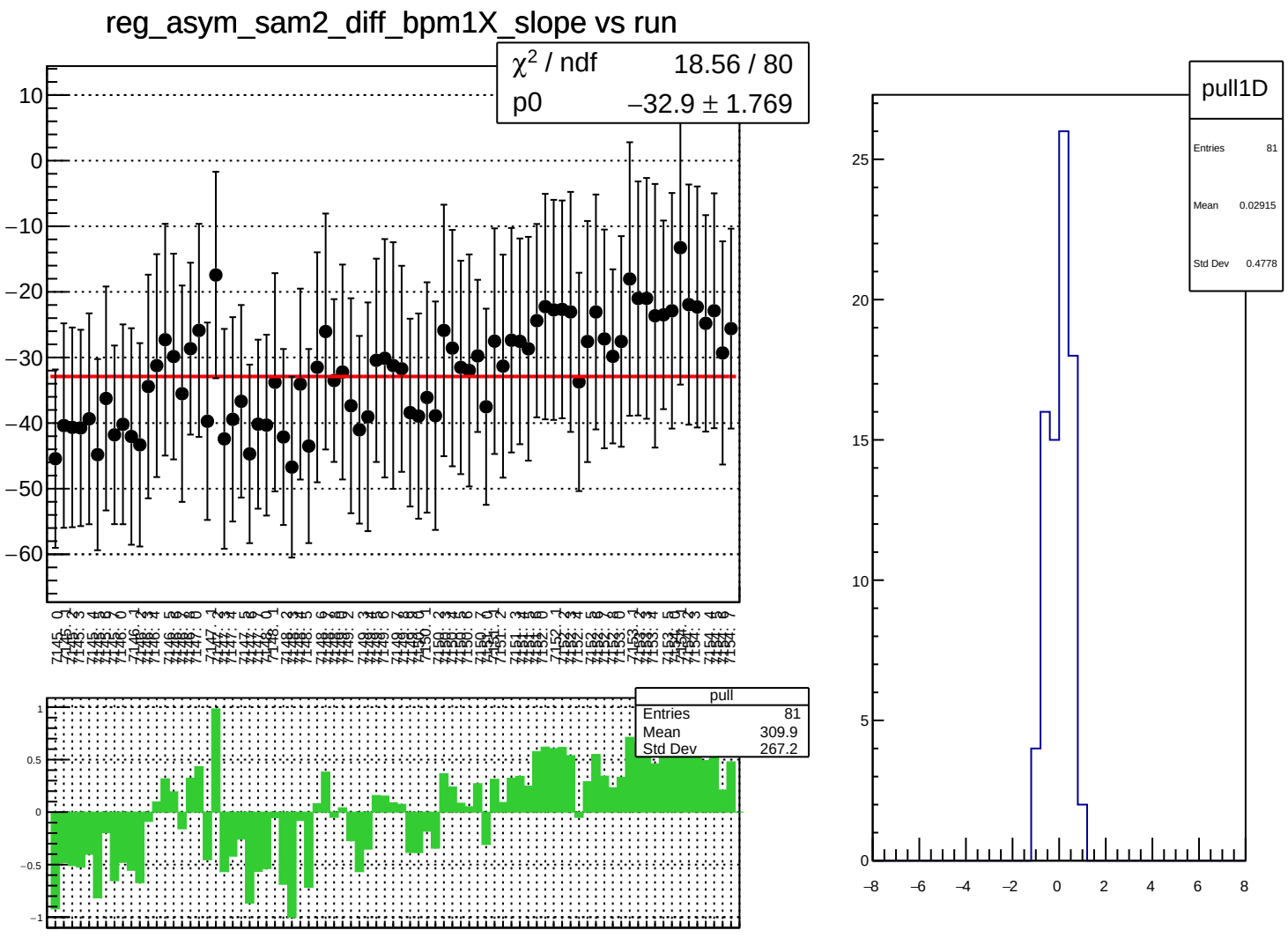

pull1D
Entries 81
Mean −0.006411
Std Dev 0.548

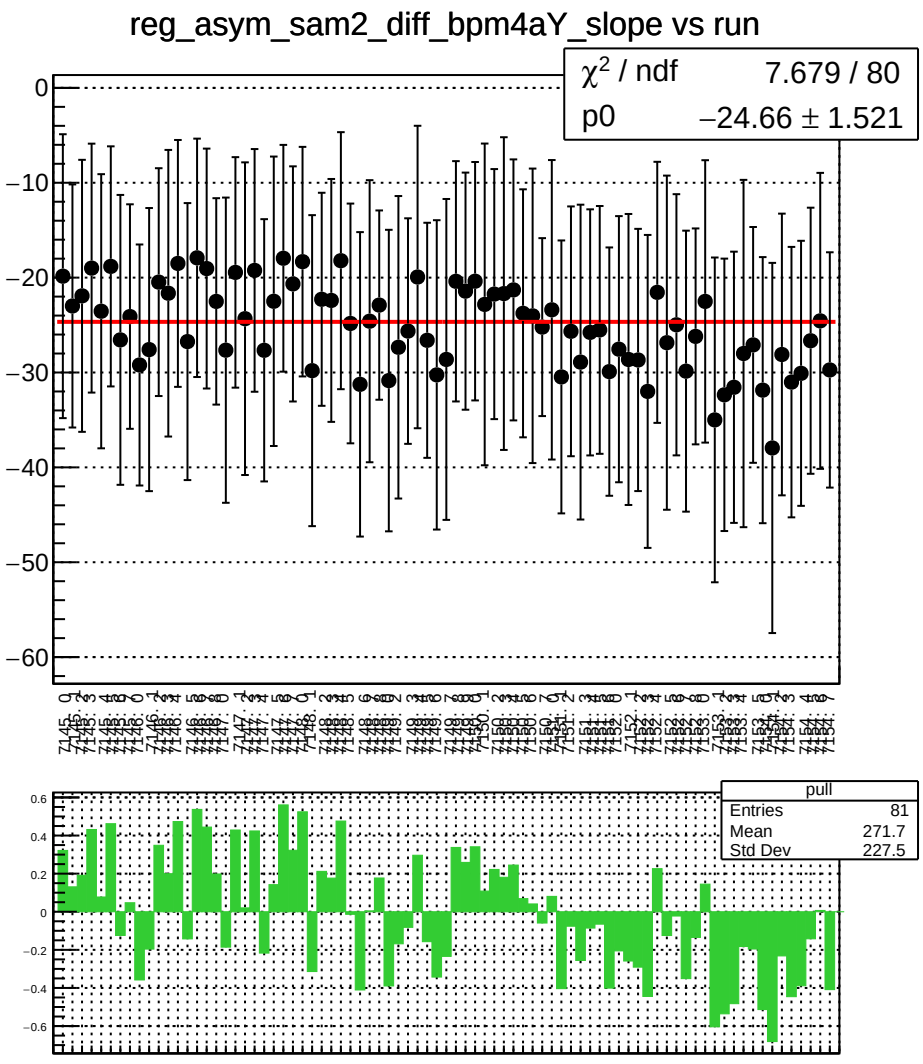

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 50.21 / 80
p0 −8.064 ± 0.3557
pull
Entries 81
Mean 206.3
Std Dev 163.6
pull1D
Entries 81
Mean −0.05206
Std Dev 0.7856

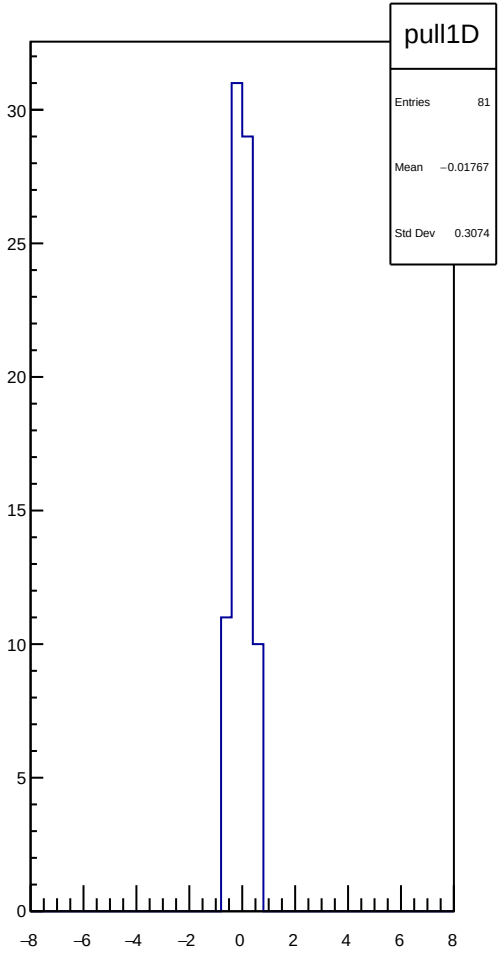

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 26.36 / 80
p0 7.194 ± 0.3281
pull
Entries 81
Mean 413.2
Std Dev 370
pull1D
Entries 81
Mean 0.02292
Std Dev 0.57

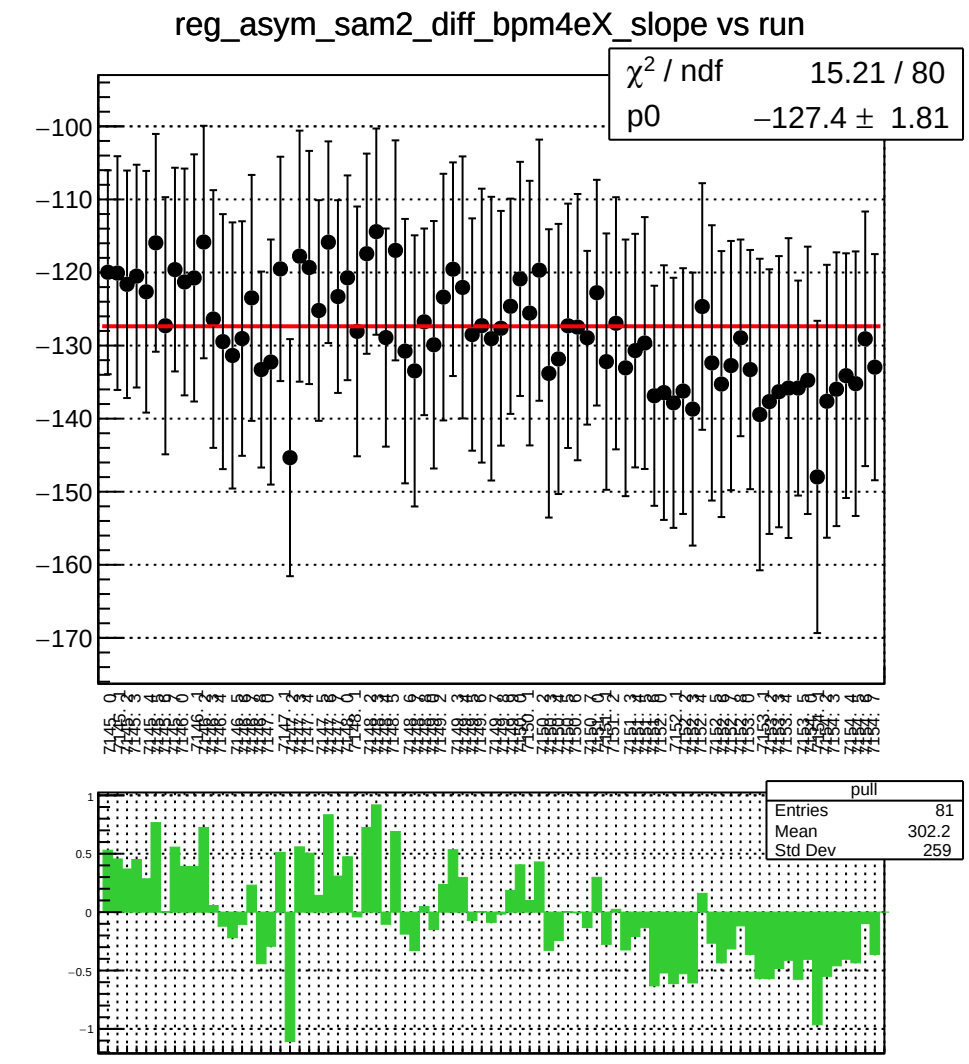

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 50.84 / 80
p0 0.4645 ± 0.01439
pull
Entries 81
Mean 428.5
Std Dev 384.3

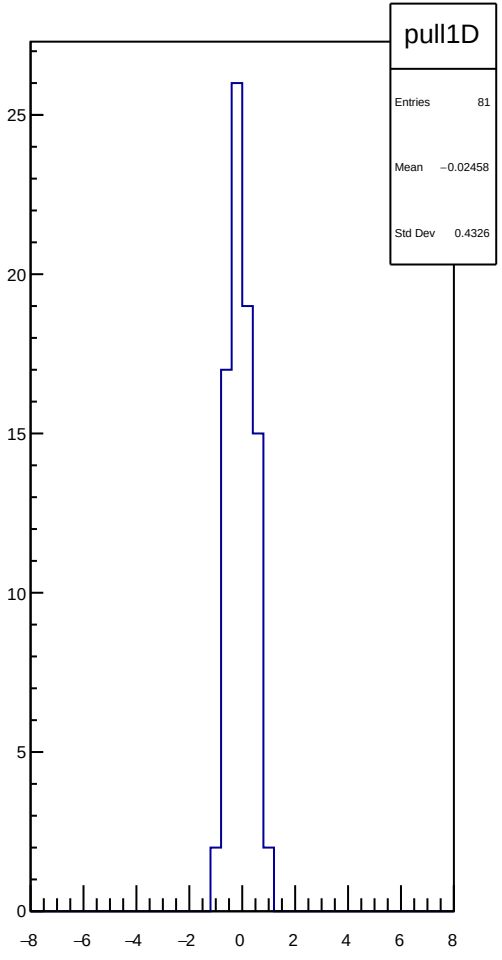

pull1D
Entries 81
Mean 0.03753
Std Dev 0.7913

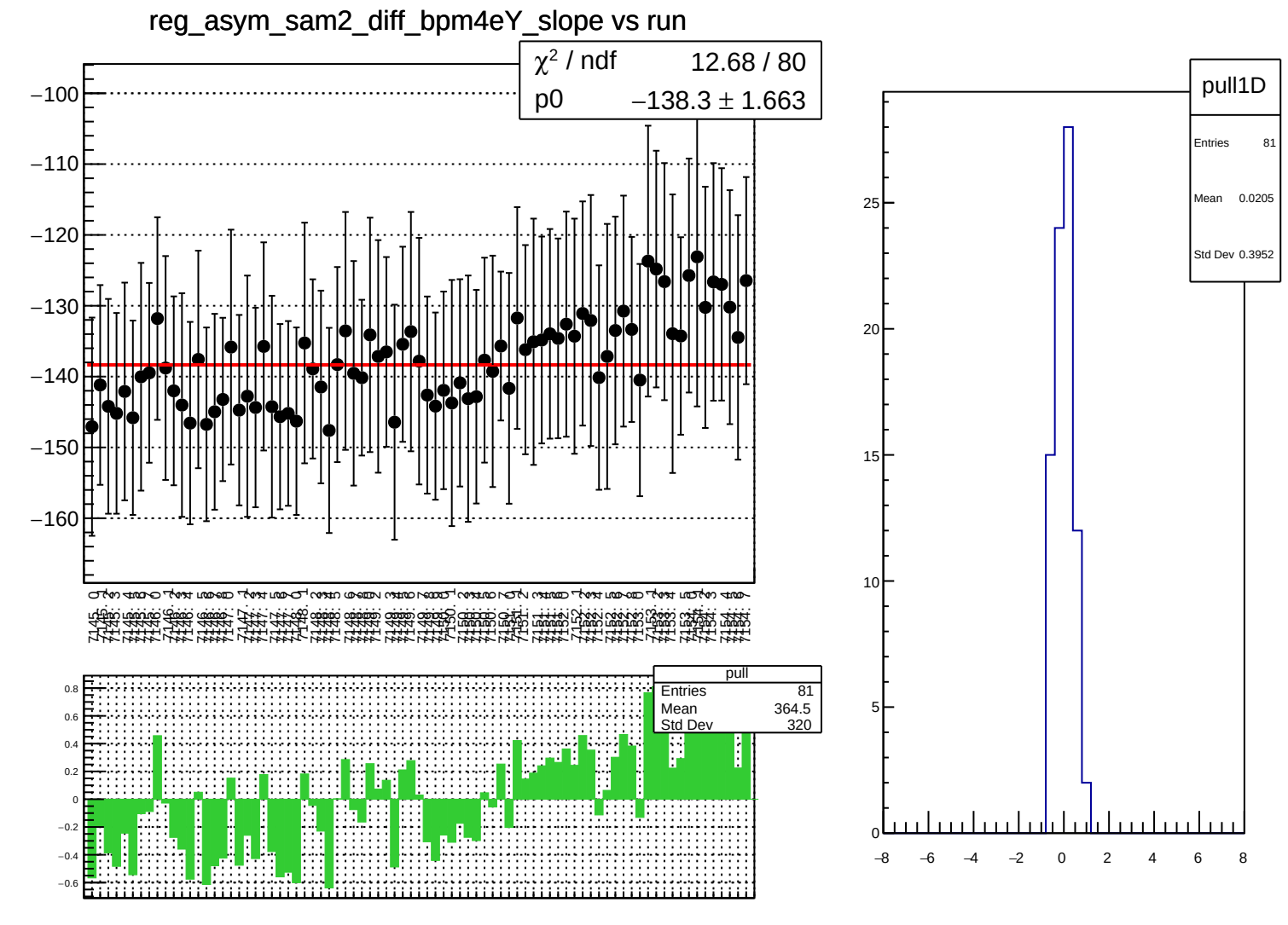

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 18.56 / 80
p0 −32.9 ± 1.769
pull
Entries 81
Mean 309.9
Std Dev 267.2
pull1D
Entries 81
Mean 0.02915
Std Dev 0.4778

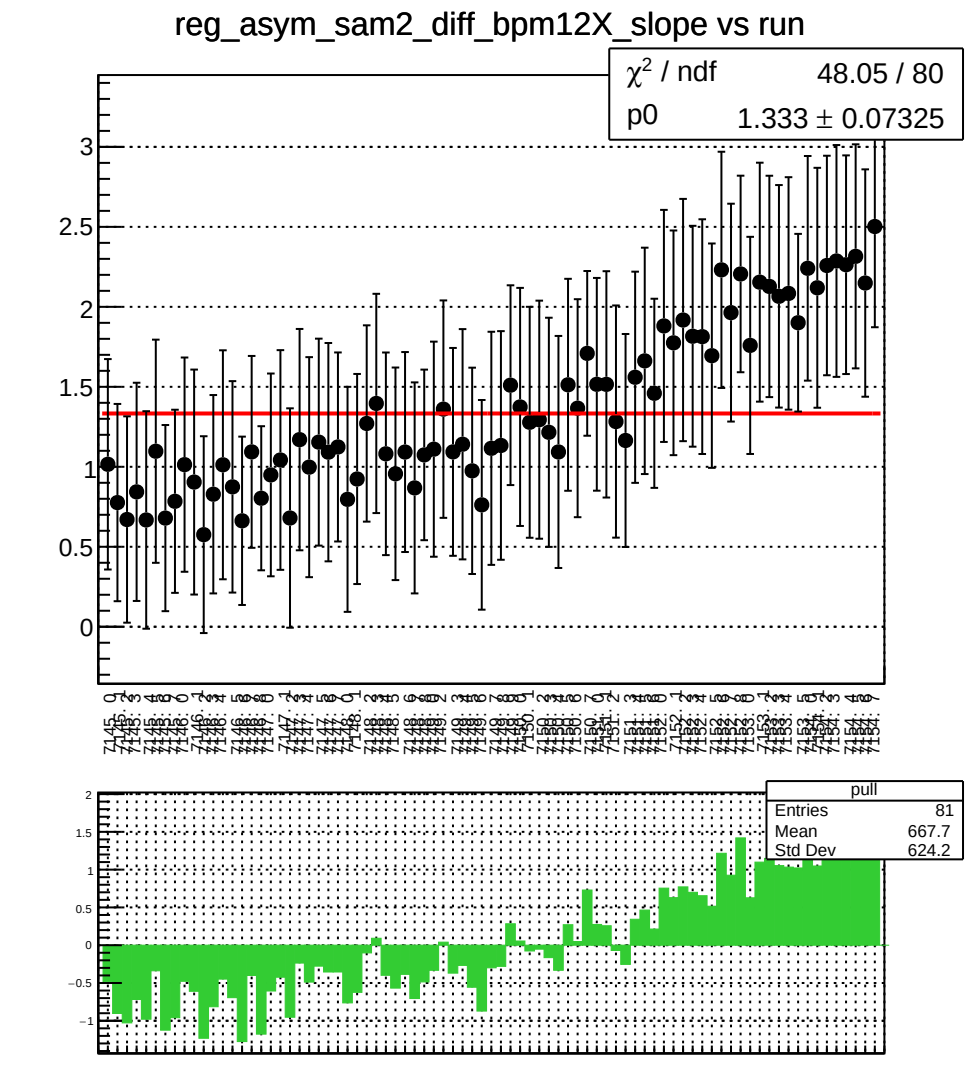

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 7.679 / 80
p0 −24.66 ± 1.521
pull
Entries 81
Mean 271.7
Std Dev 227.5

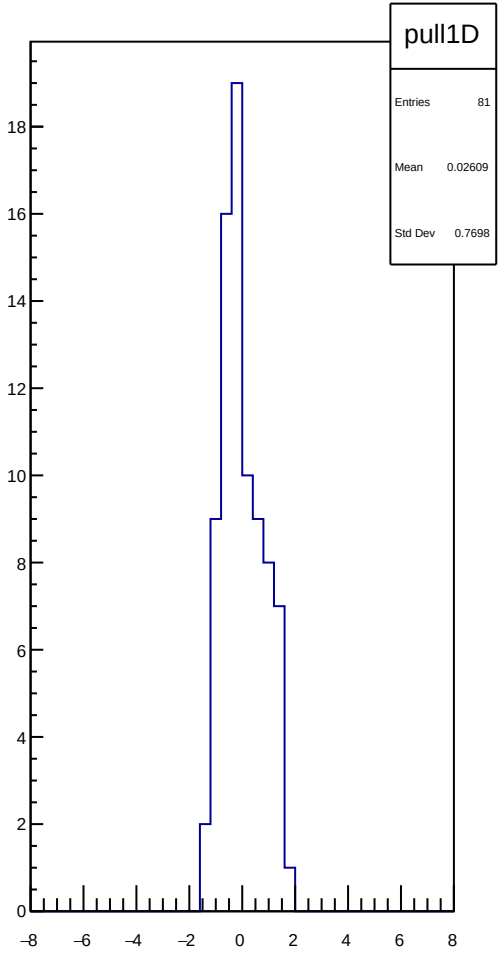

pull1D
Entries 81
Mean −0.01767
Std Dev 0.3074

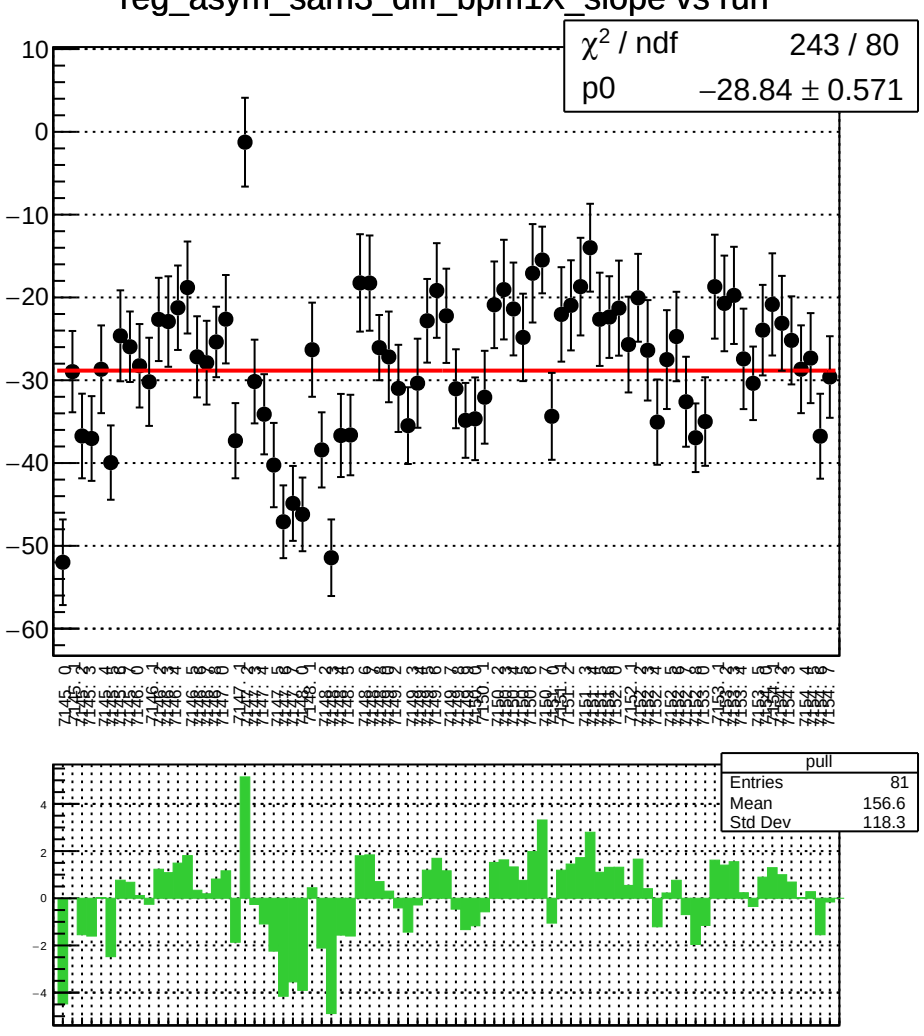

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 15.21 / 80
p0 −127.4 ± 1.81
pull
Entries 81
Mean 302.2
Std Dev 259

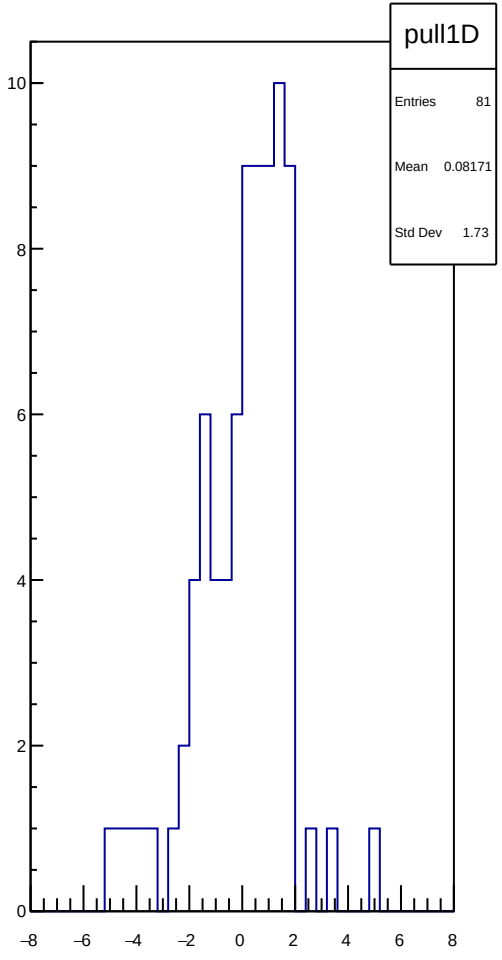

pull1D
Entries 81
Mean −0.02458
Std Dev 0.4326

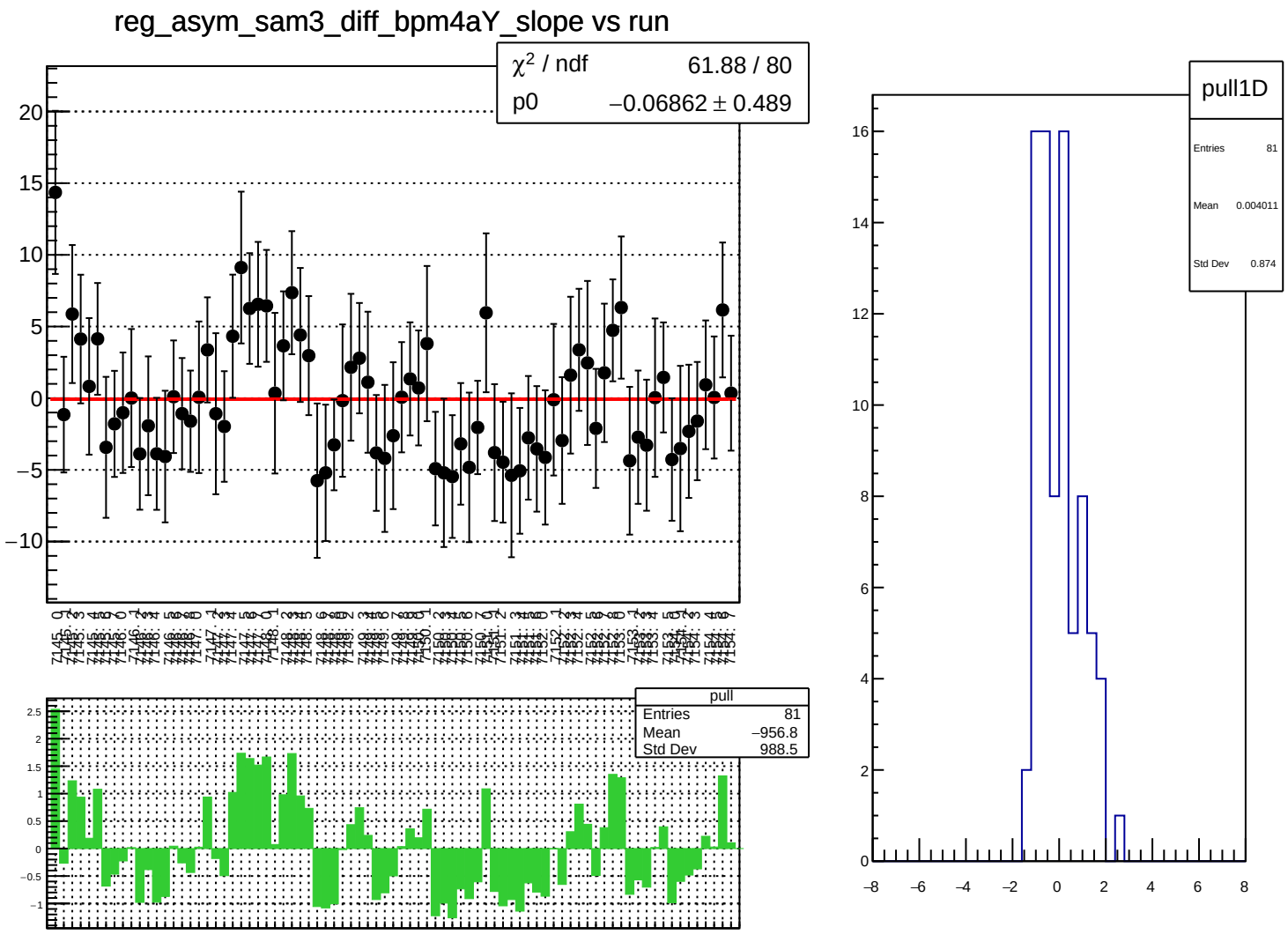

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 12.68 / 80
p0 −138.3 ± 1.663
pull
Entries 81
Mean 364.5
Std Dev 320
pull1D
Entries 81
Mean 0.0205
Std Dev 0.3952

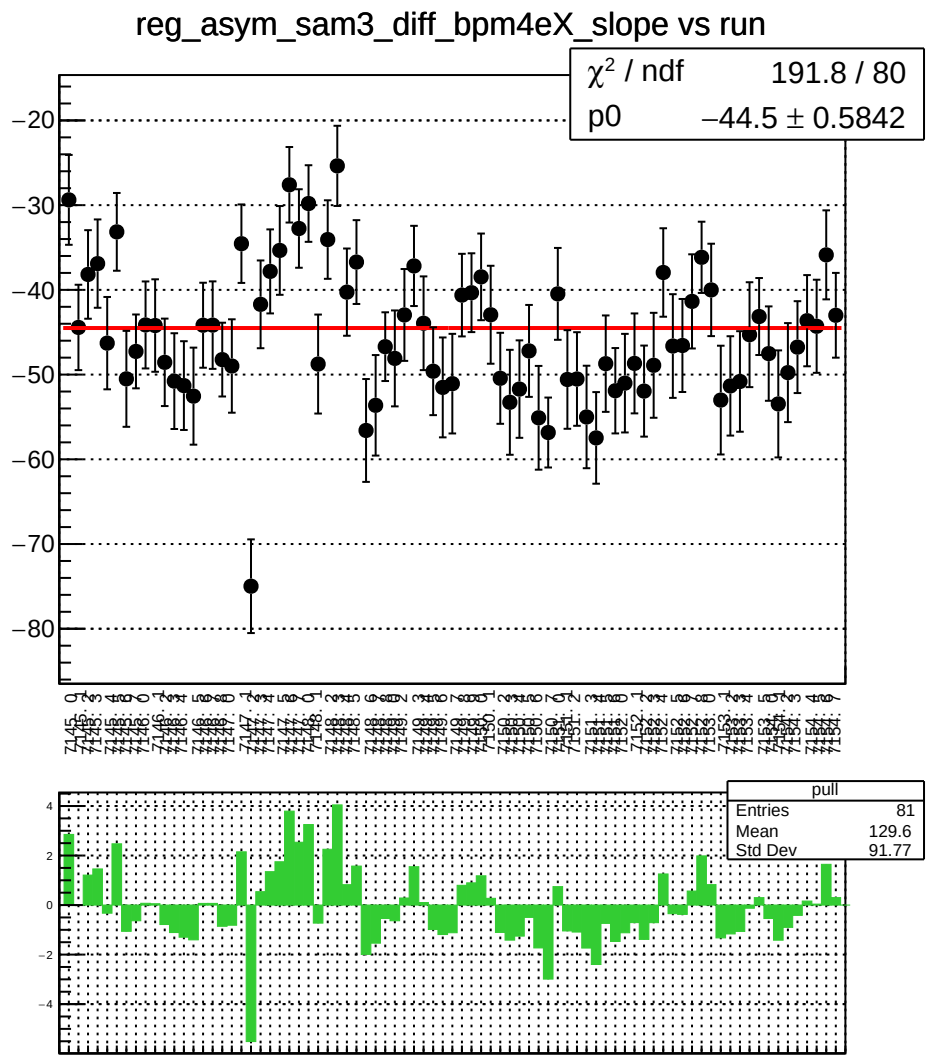

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 48.05 / 80
p0 1.333 ± 0.07325
pull
Entries 81
Mean 667.7
Std Dev 624.2

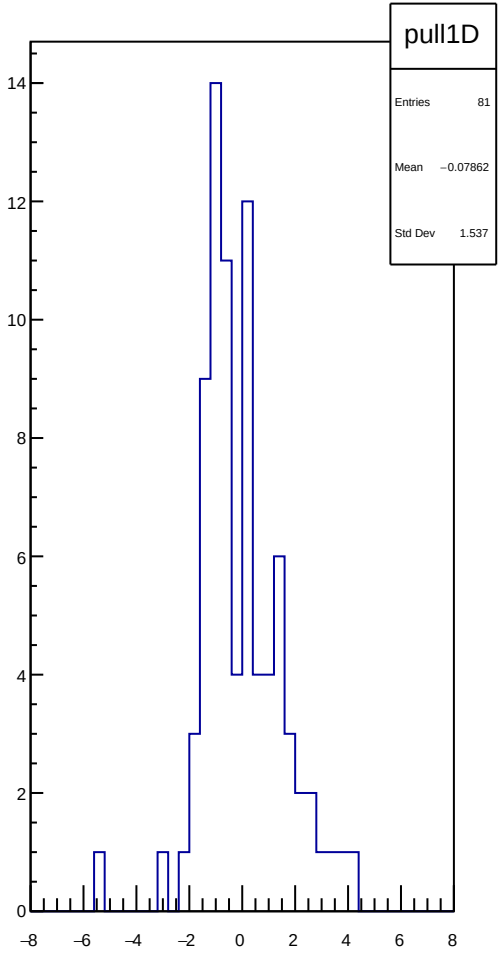

pull1D
Entries 81
Mean 0.02609
Std Dev 0.7698

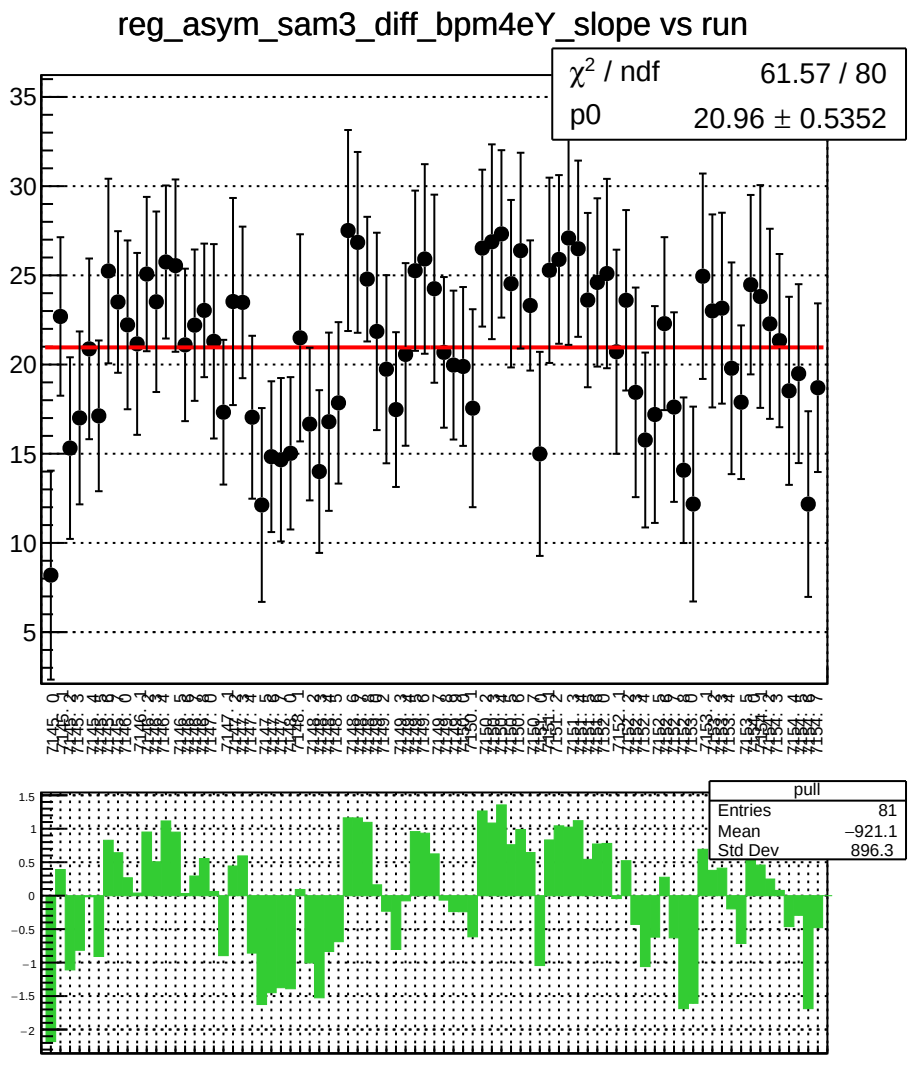

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 243 / 80
p0 −28.84 ± 0.571
pull
Entries 81
Mean 156.6
Std Dev 118.3

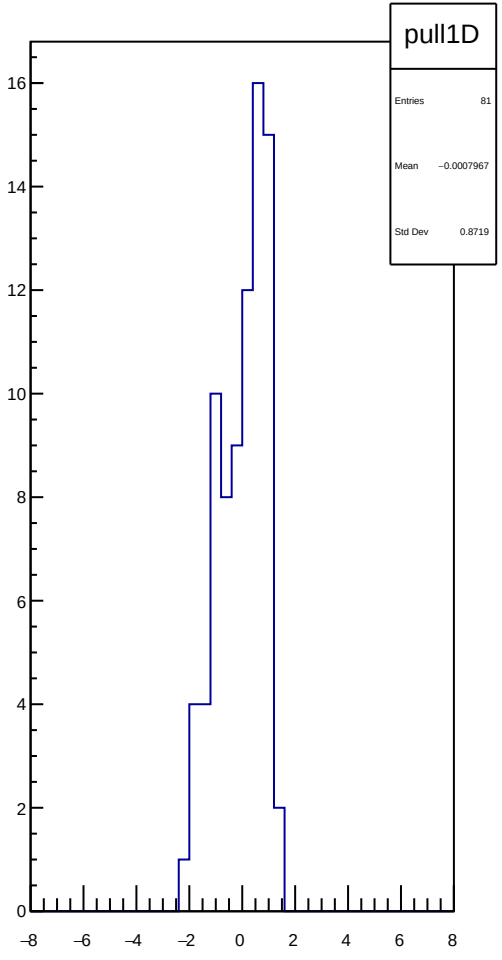

pull1D
Entries 81
Mean 0.08171
Std Dev 1.73

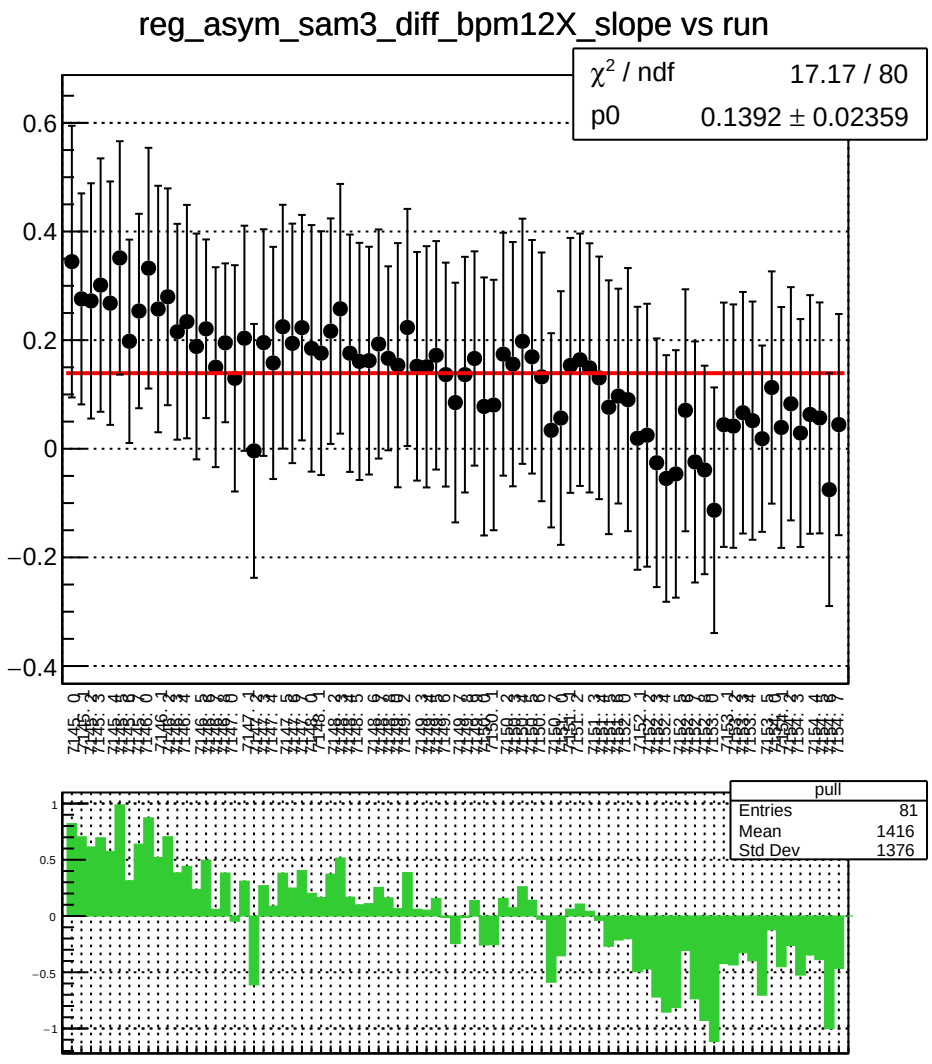

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 61.88 / 80
p0 −0.06862 ± 0.489
pull
Entries 81
Mean −956.8
Std Dev 988.5
pull1D
Entries 81
Mean 0.004011
Std Dev 0.874

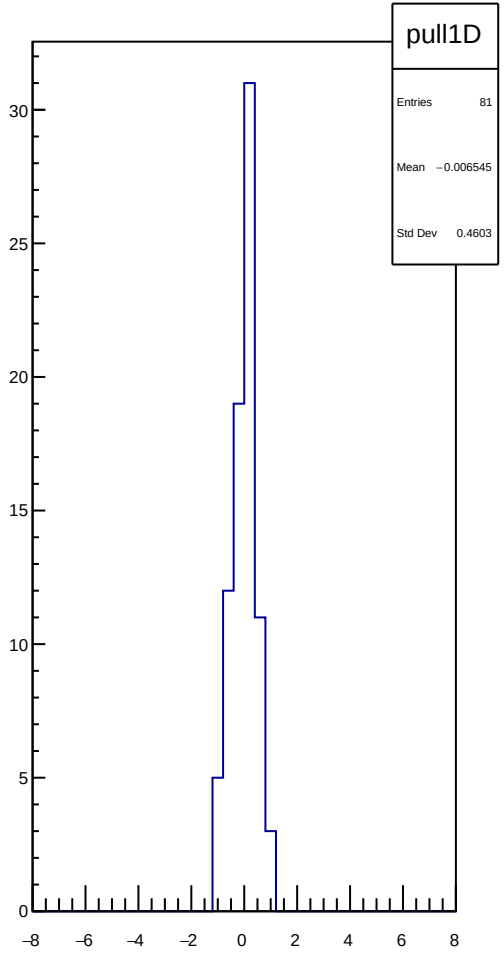

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 191.8 / 80
p0 −44.5 ± 0.5842
pull
Entries 81
Mean 129.6
Std Dev 91.77

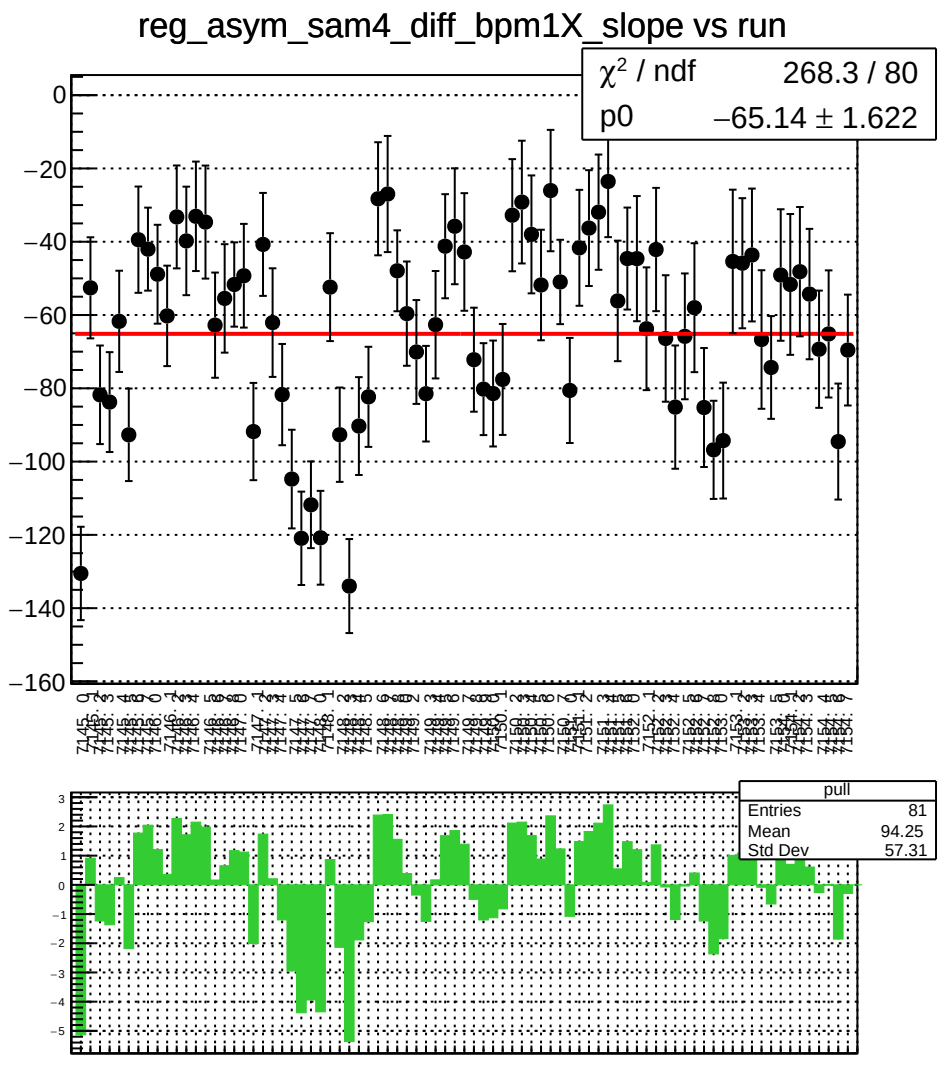

pull1D
Entries 81
Mean −0.07862
Std Dev 1.537

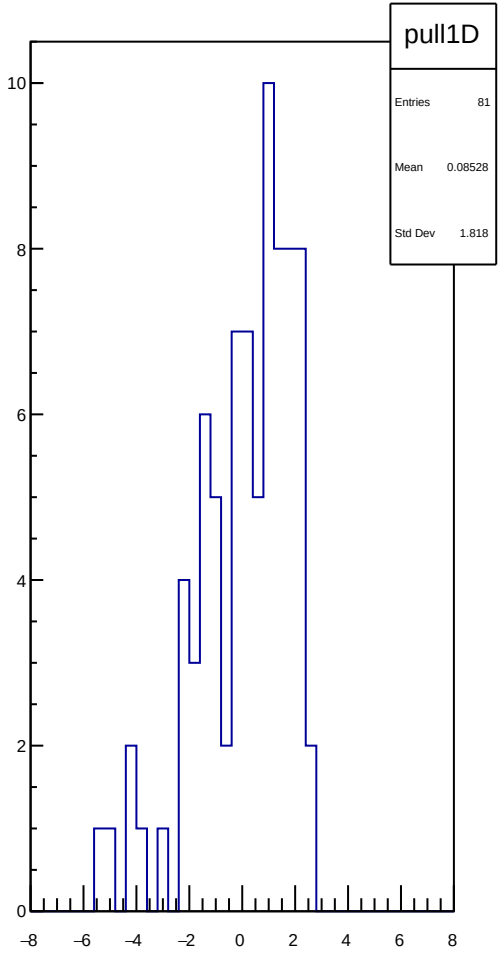

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 61.57 / 80
p0 20.96 ± 0.5352
pull
Entries 81
Mean −921.1
Std Dev 896.3

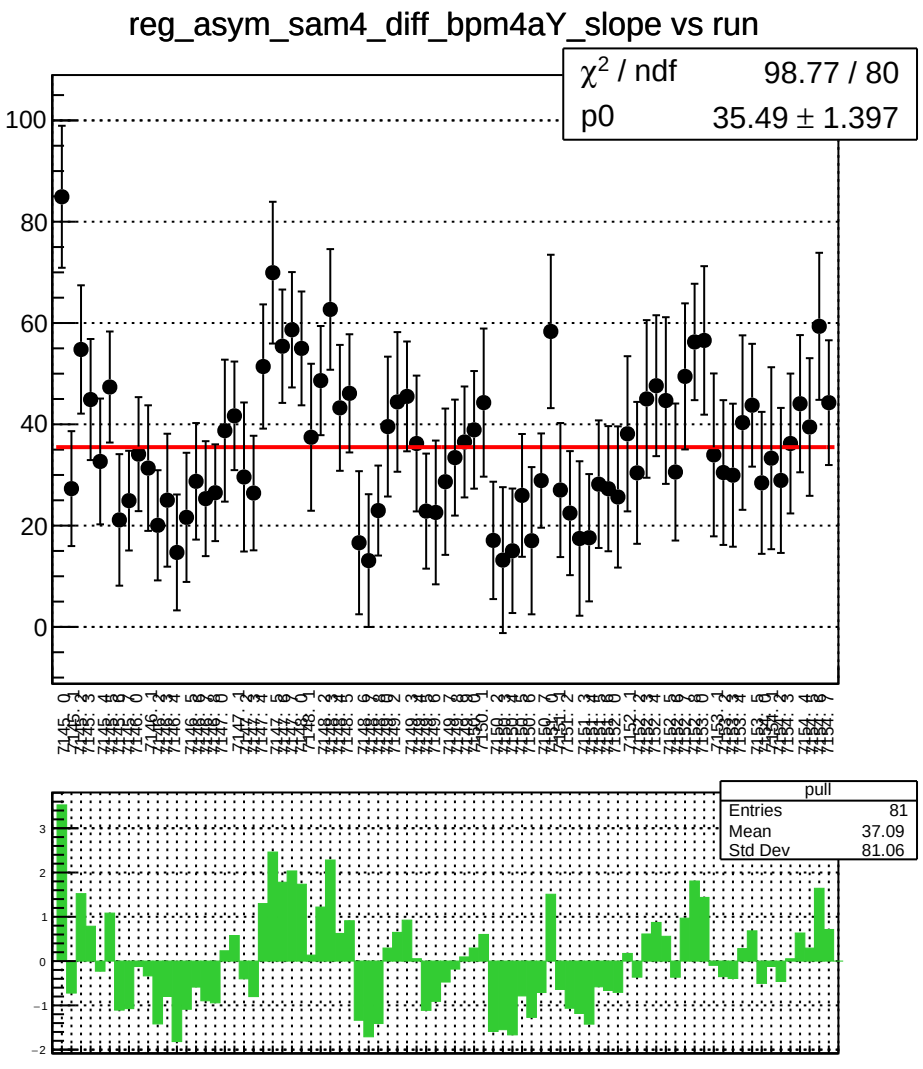

pull1D
Entries 81
Mean −0.0007967
Std Dev 0.8719

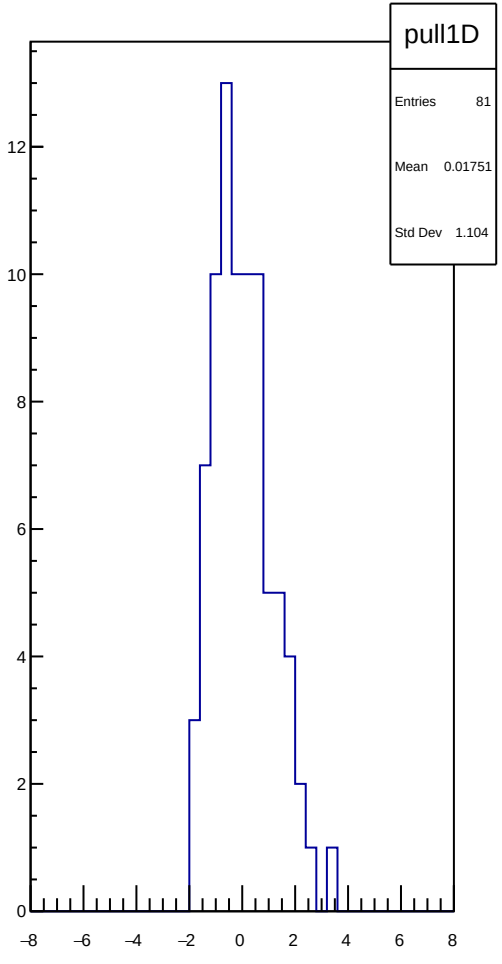

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 17.17 / 80
p0 0.1392 ± 0.02359
pull
Entries 81
Mean 1416
Std Dev 1376

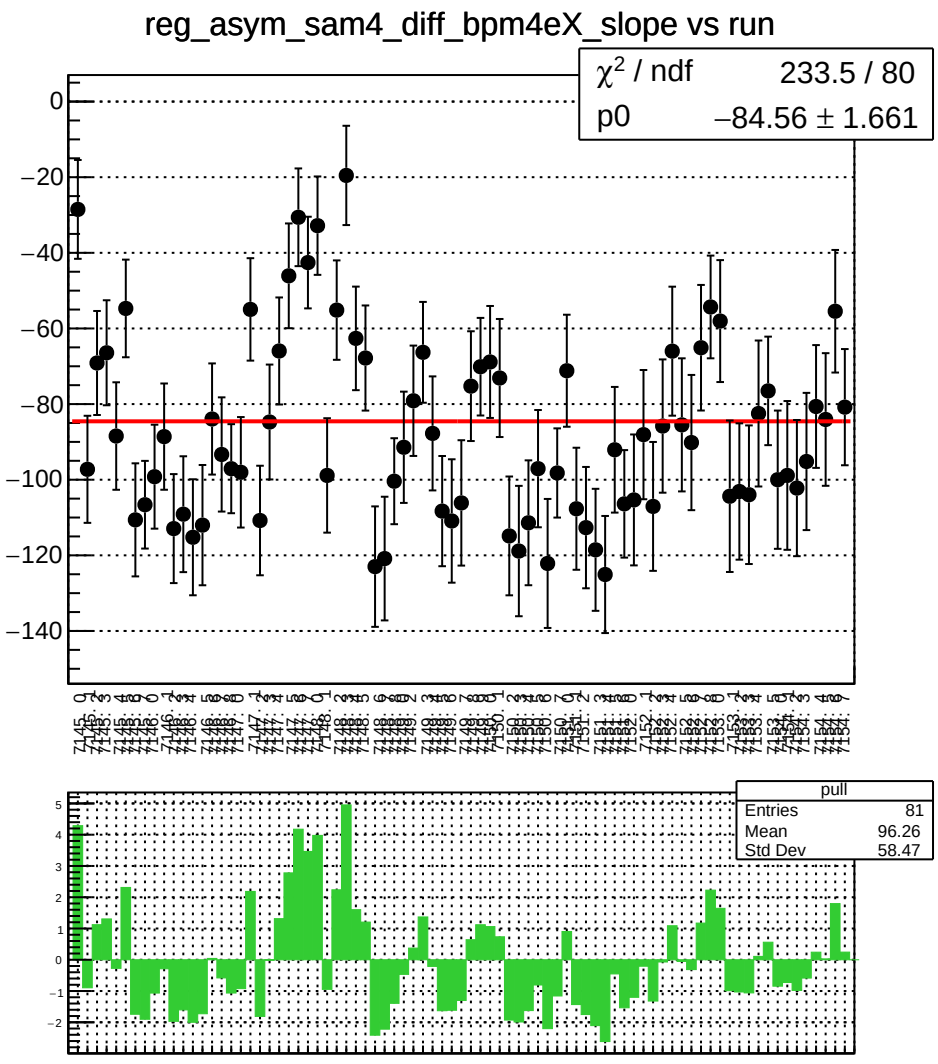

pull1D
Entries 81
Mean −0.006545
Std Dev 0.4603

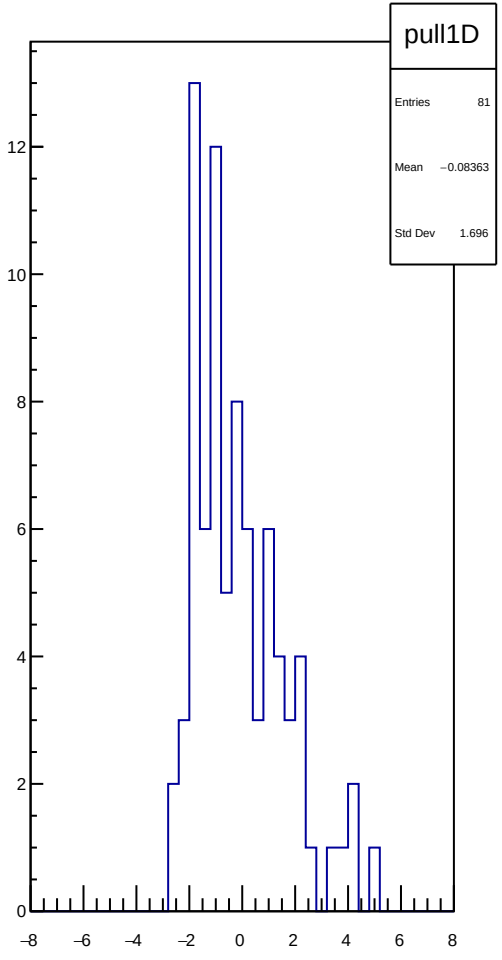

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 268.3 / 80
p0 −65.14 ± 1.622
pull
Entries 81
Mean 94.25
Std Dev 57.31

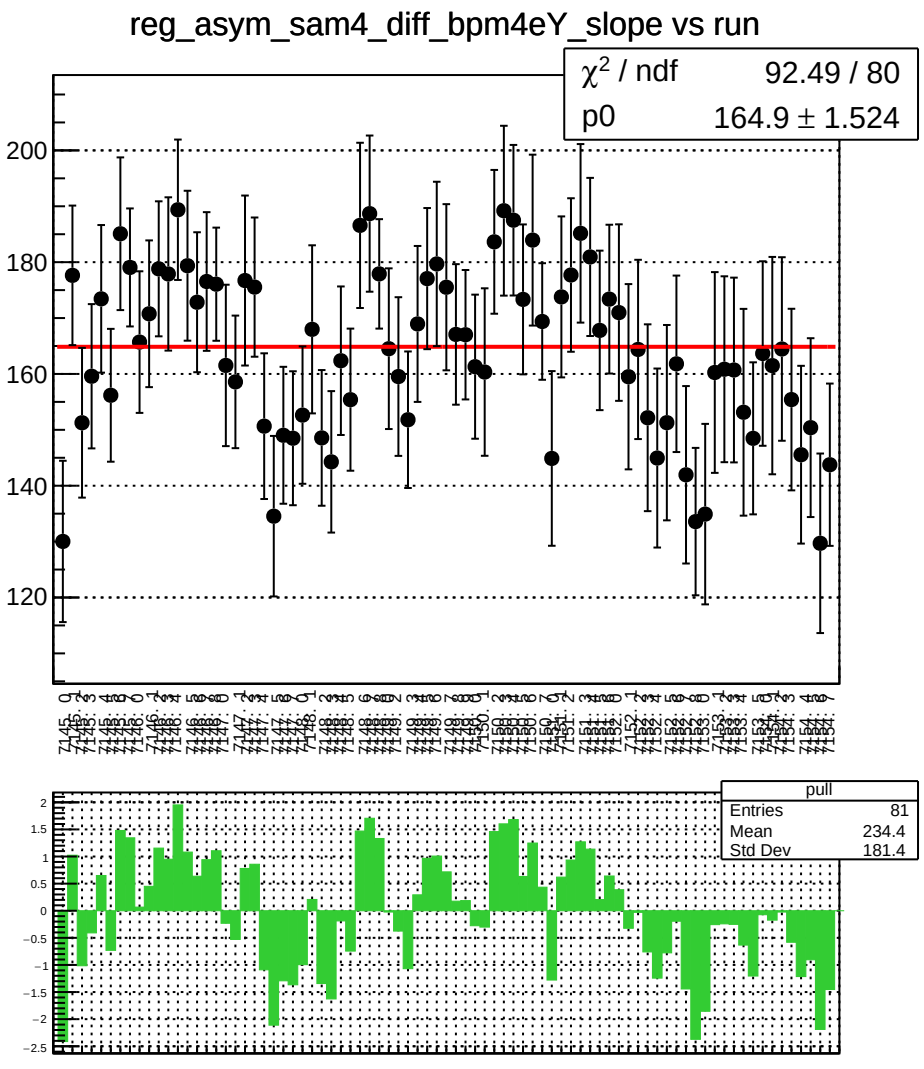

pull1D
Entries 81
Mean 0.08528
Std Dev 1.818

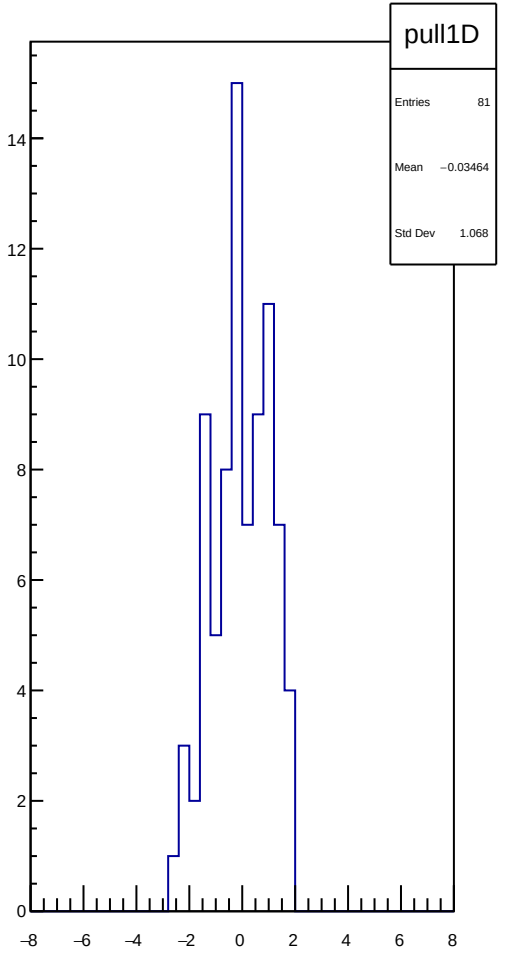

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 98.77 / 80
p0 35.49 ± 1.397
pull
Entries 81
Mean 37.09
Std Dev 81.06

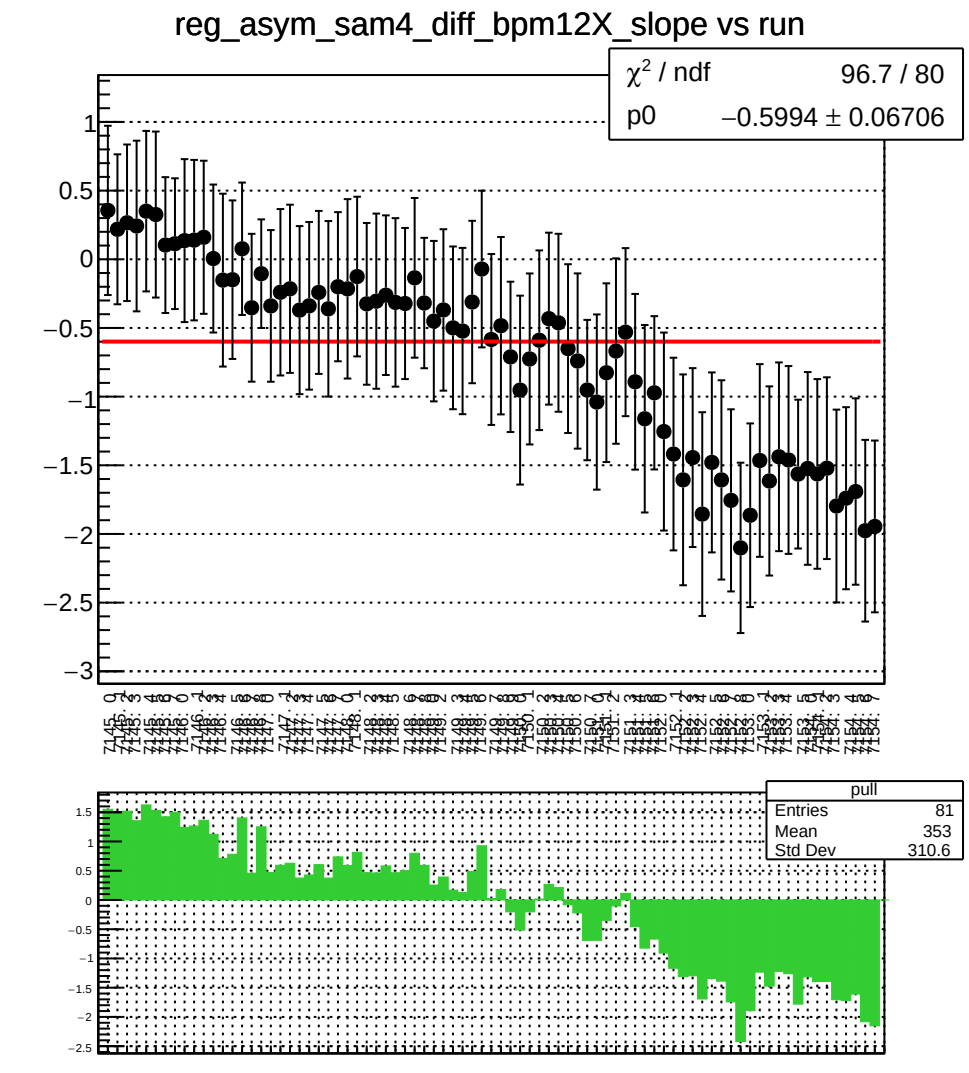

pull1D
Entries 81
Mean 0.01751
Std Dev 1.104

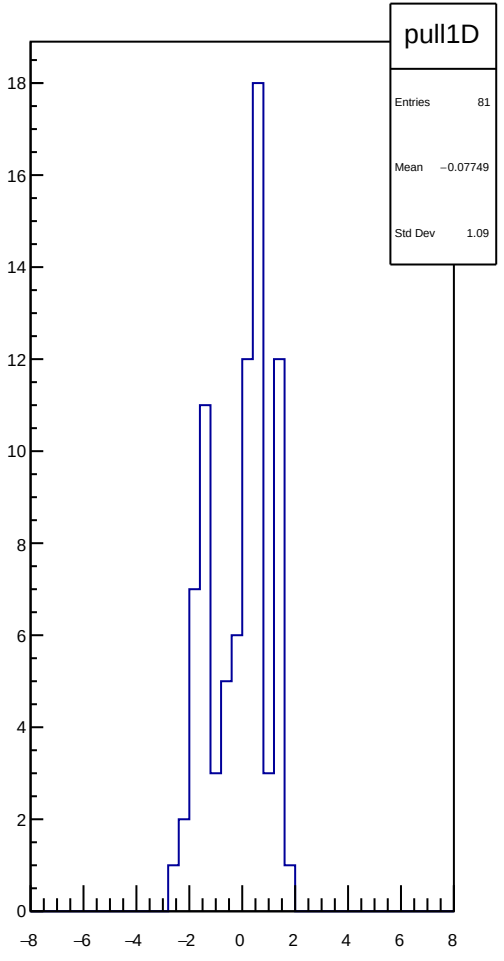

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 233.5 / 80
p0 −84.56 ± 1.661
pull
Entries 81
Mean 96.26
Std Dev 58.47

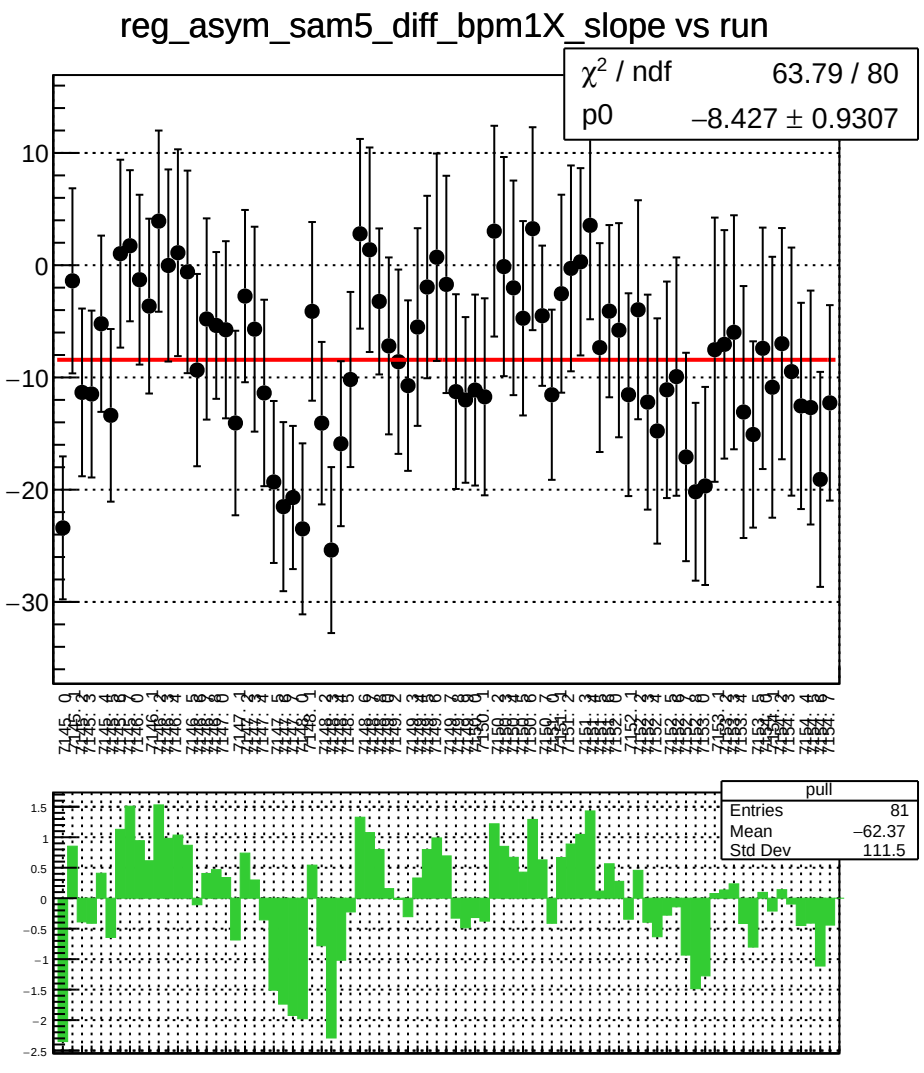

pull1D
Entries 81
Mean −0.08363
Std Dev 1.696

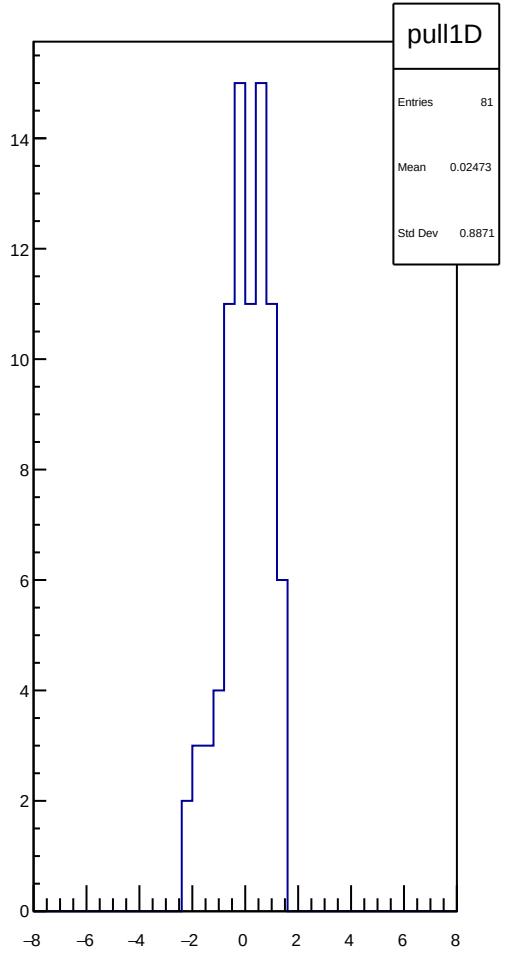

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 92.49 / 80
p0 164.9 ± 1.524
pull
Entries 81
Mean 234.4
Std Dev 181.4

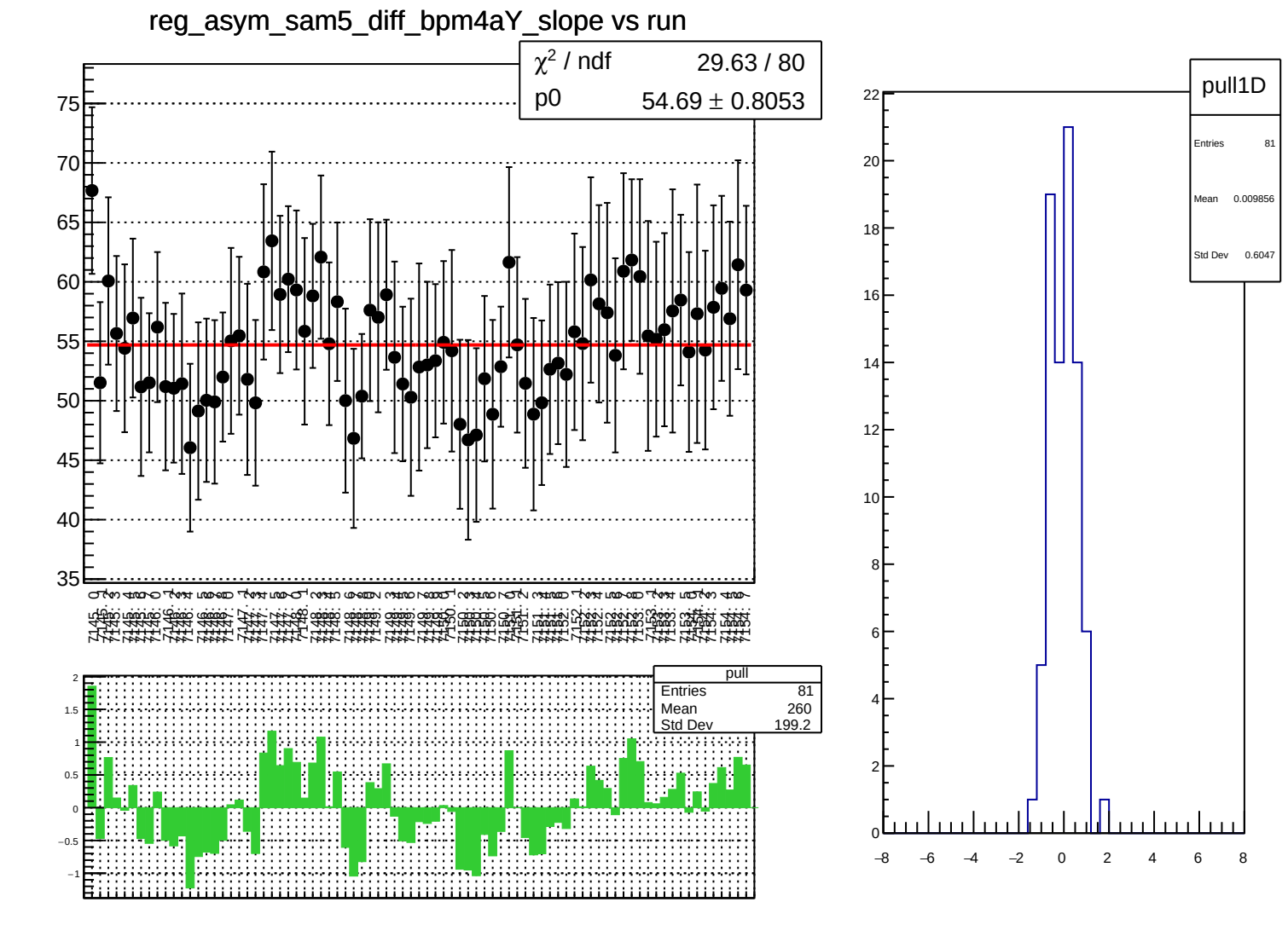

pull1D
Entries 81
Mean −0.03464
Std Dev 1.068

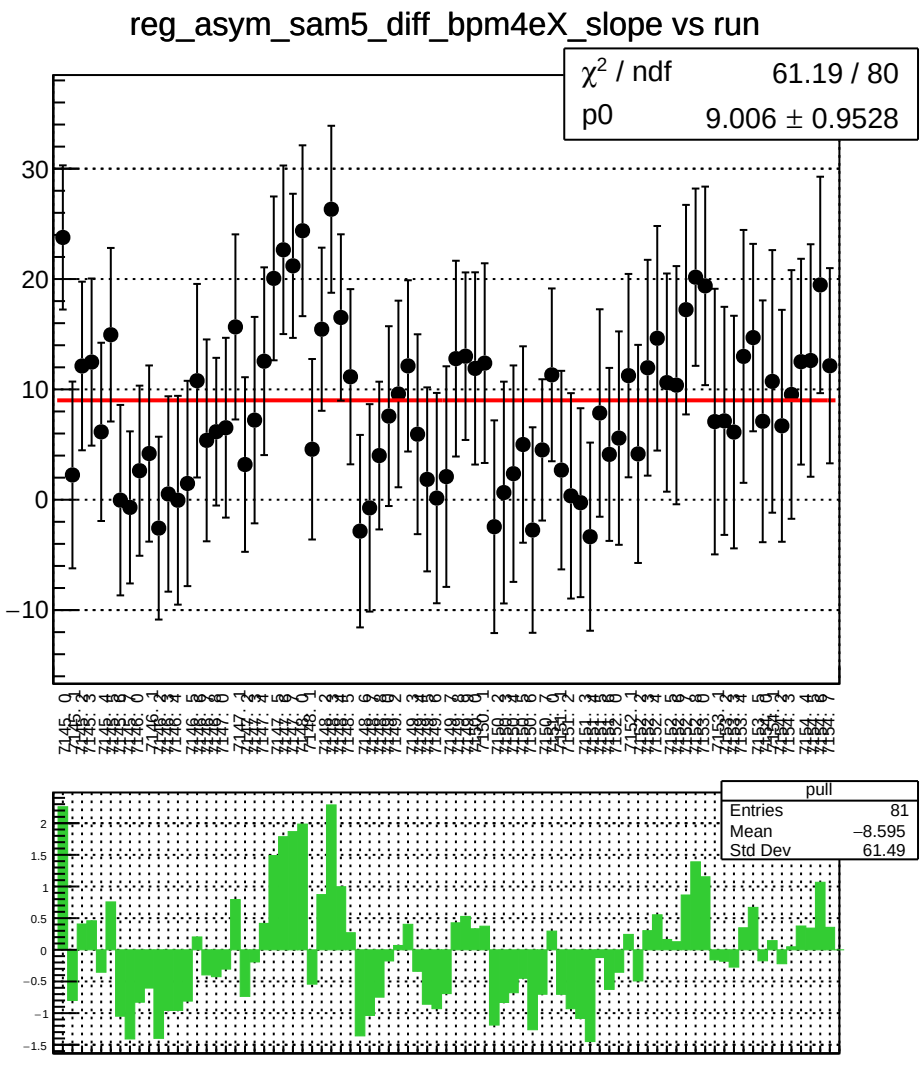

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 96.7 / 80
p0 −0.5994 ± 0.06706
pull
Entries 81
Mean 353
Std Dev 310.6

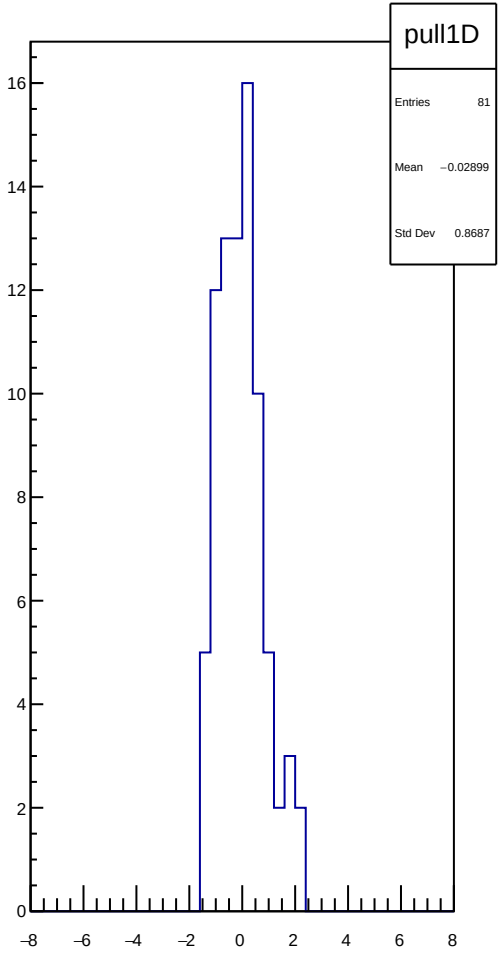

pull1D
Entries 81
Mean −0.07749
Std Dev 1.09

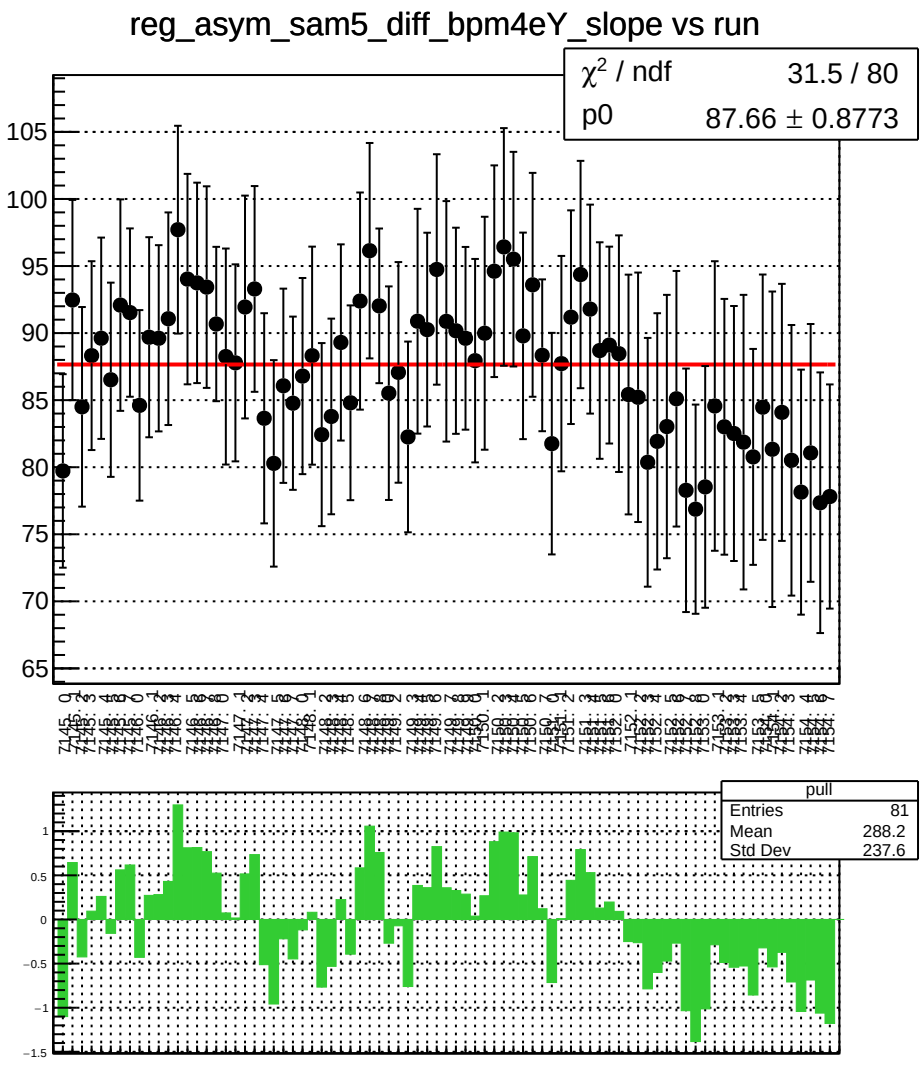

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 63.79 / 80
p0 −8.427 ± 0.9307
pull
Entries 81
Mean −62.37
Std Dev 111.5

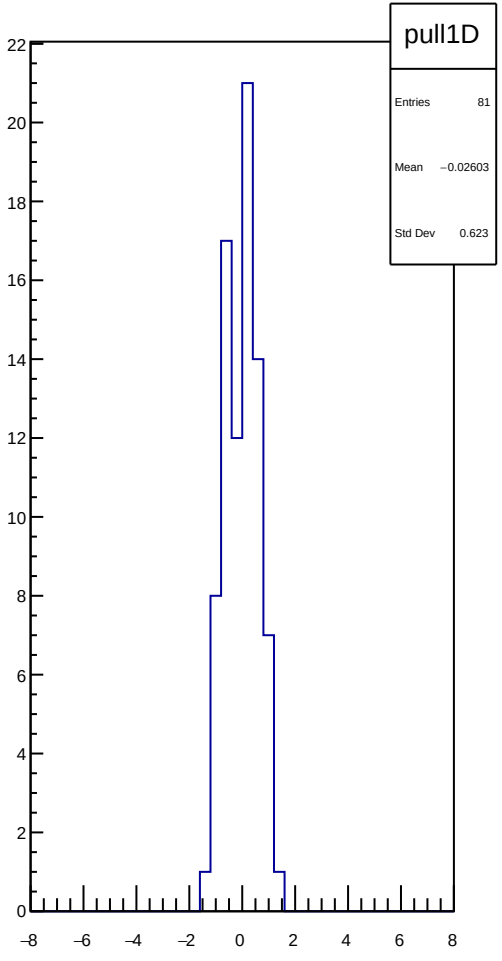

pull1D
Entries 81
Mean 0.02473
Std Dev 0.8871

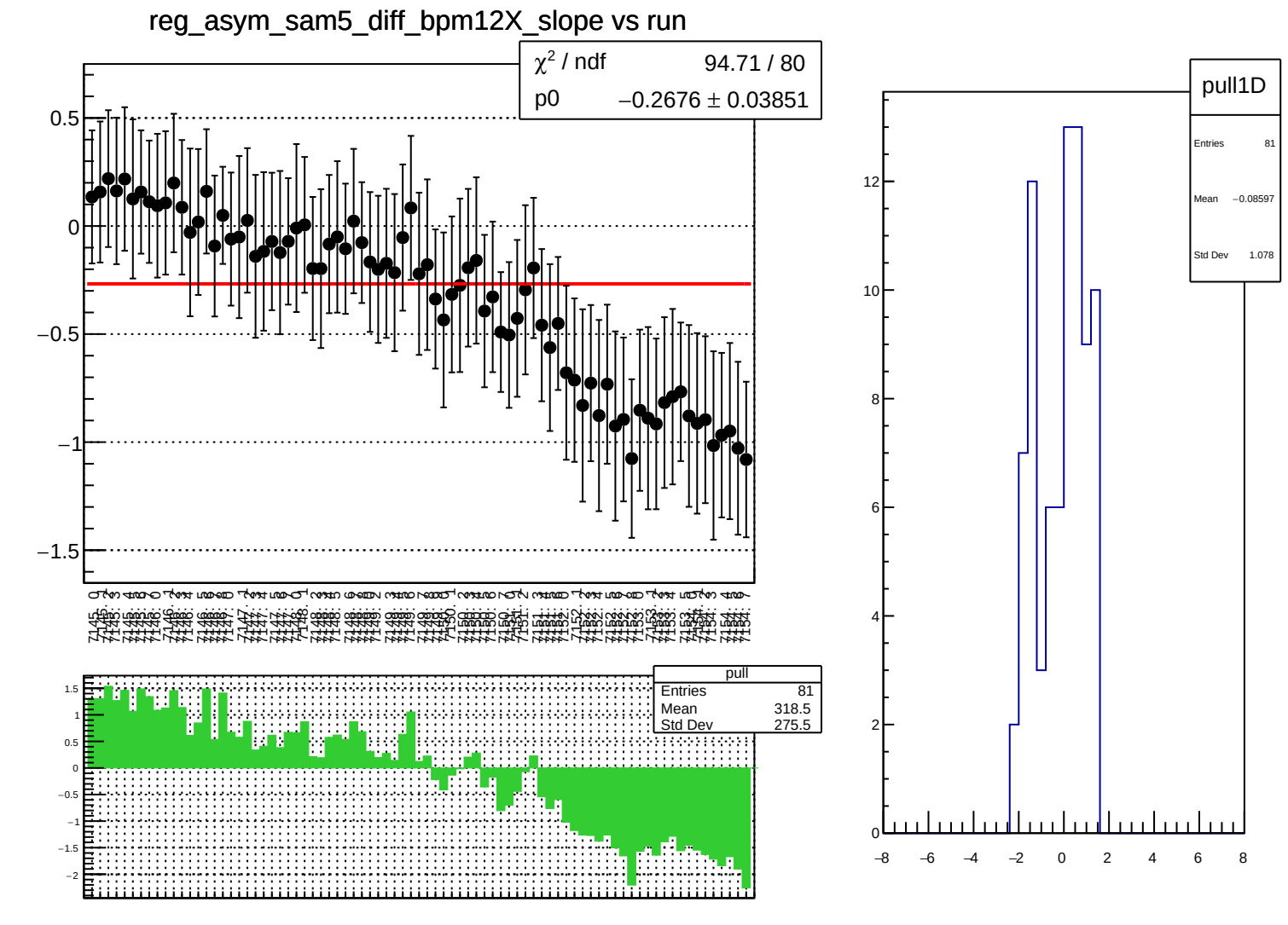

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 29.63 / 80
p0 54.69 ± 0.8053
pull
Entries 81
Mean 260
Std Dev 199.2
pull1D
Entries 81
Mean 0.009856
Std Dev 0.6047

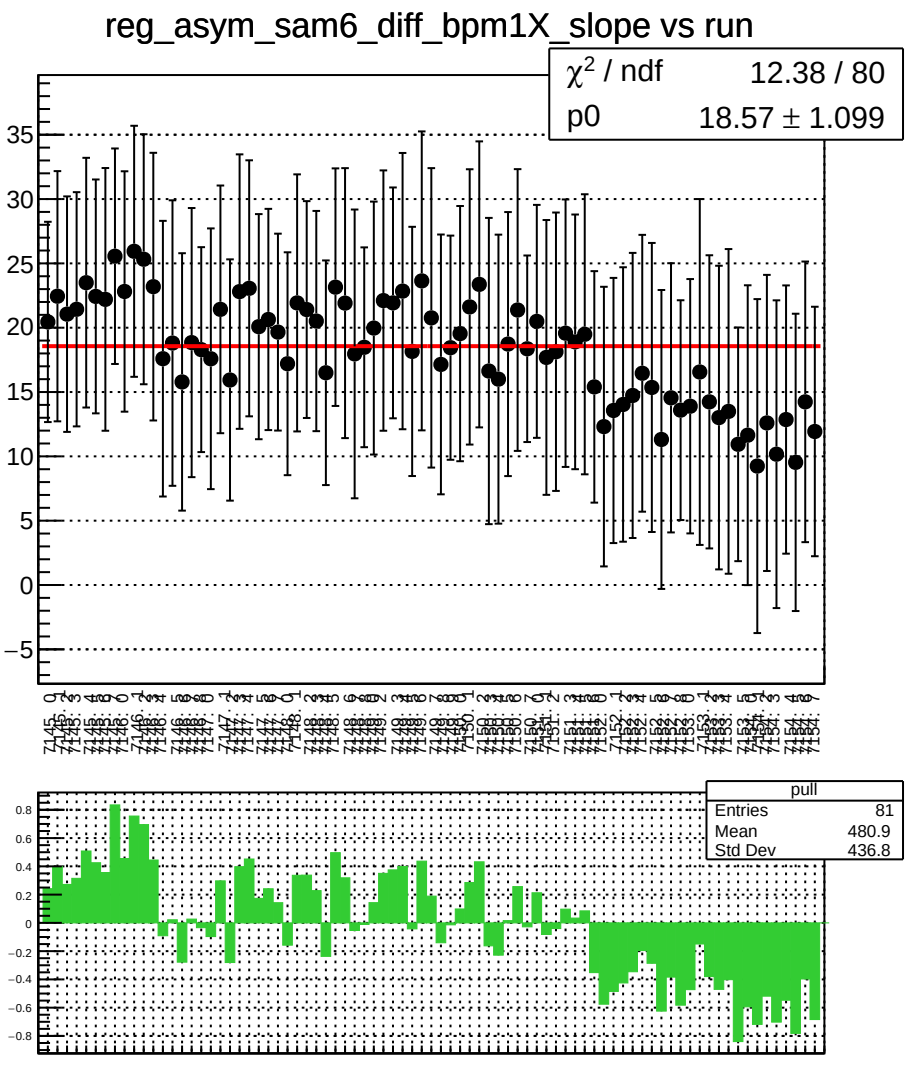

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 61.19 / 80
p0 9.006 ± 0.9528
pull
Entries 81
Mean −8.595
Std Dev 61.49

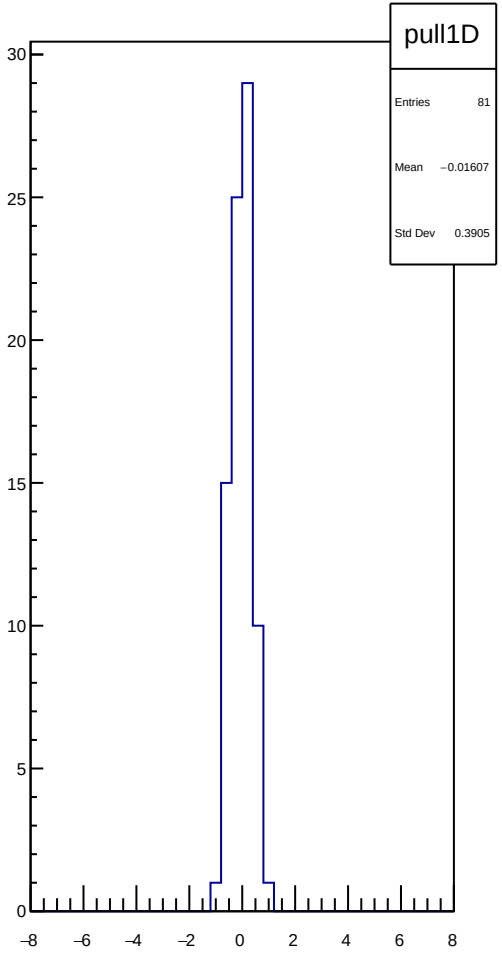

pull1D
Entries 81
Mean −0.02899
Std Dev 0.8687

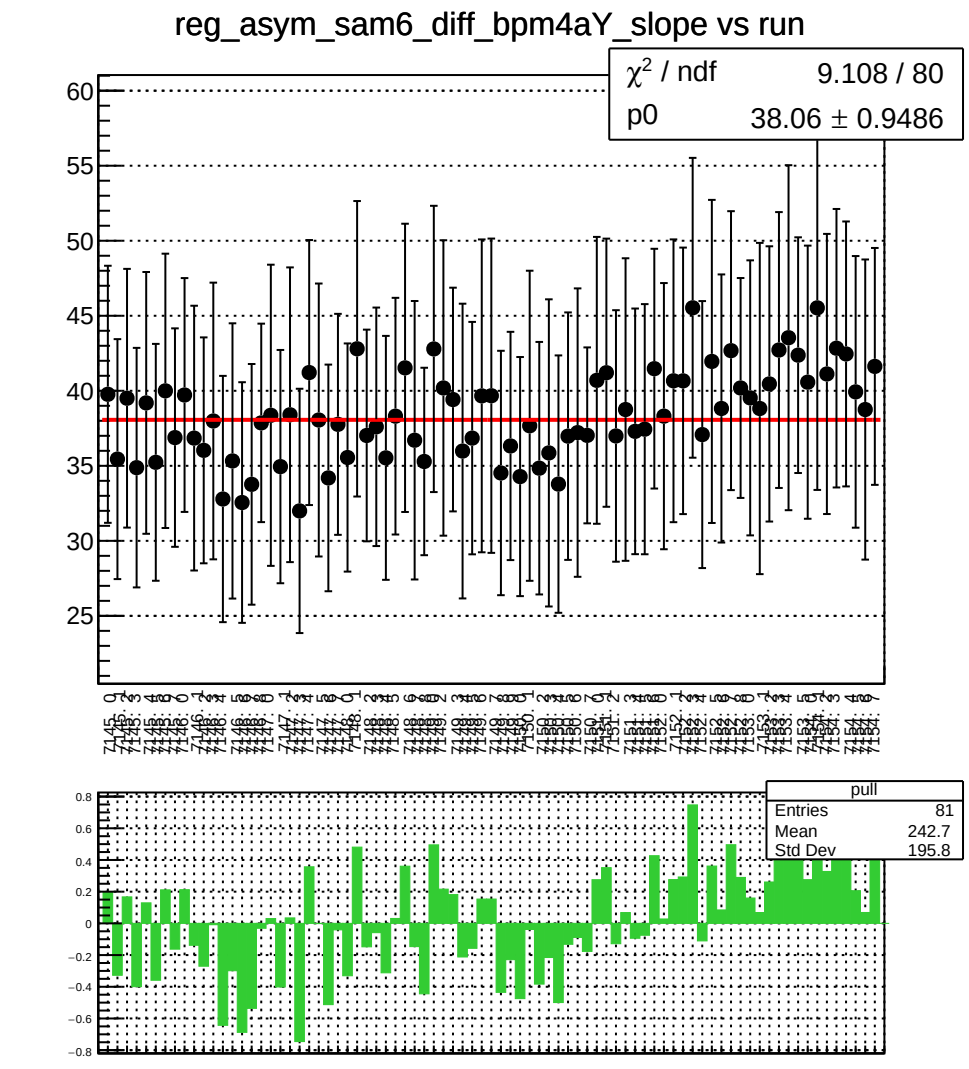

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 31.5 / 80
p0 87.66 ± 0.8773
pull
Entries 81
Mean 288.2
Std Dev 237.6

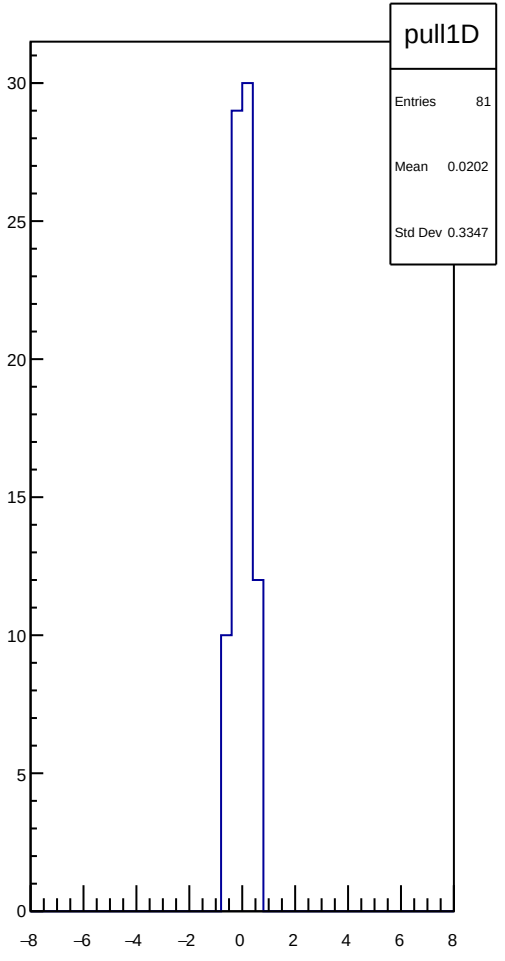

pull1D
Entries 81
Mean −0.02603
Std Dev 0.623

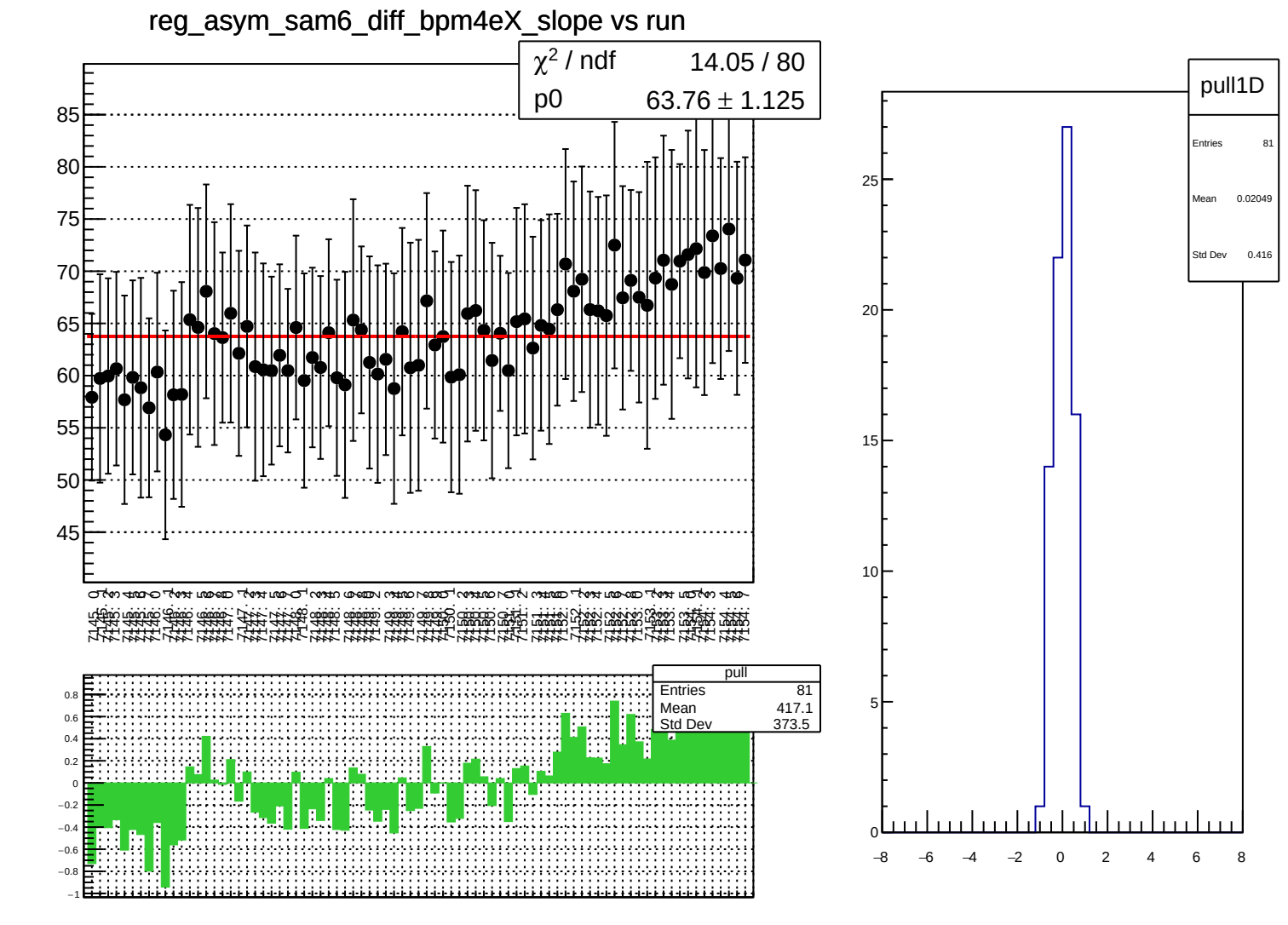

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 94.71 / 80
p0 −0.2676 ± 0.03851
pull
Entries 81
Mean 318.5
Std Dev 275.5
pull1D
Entries 81
Mean −0.08597
Std Dev 1.078

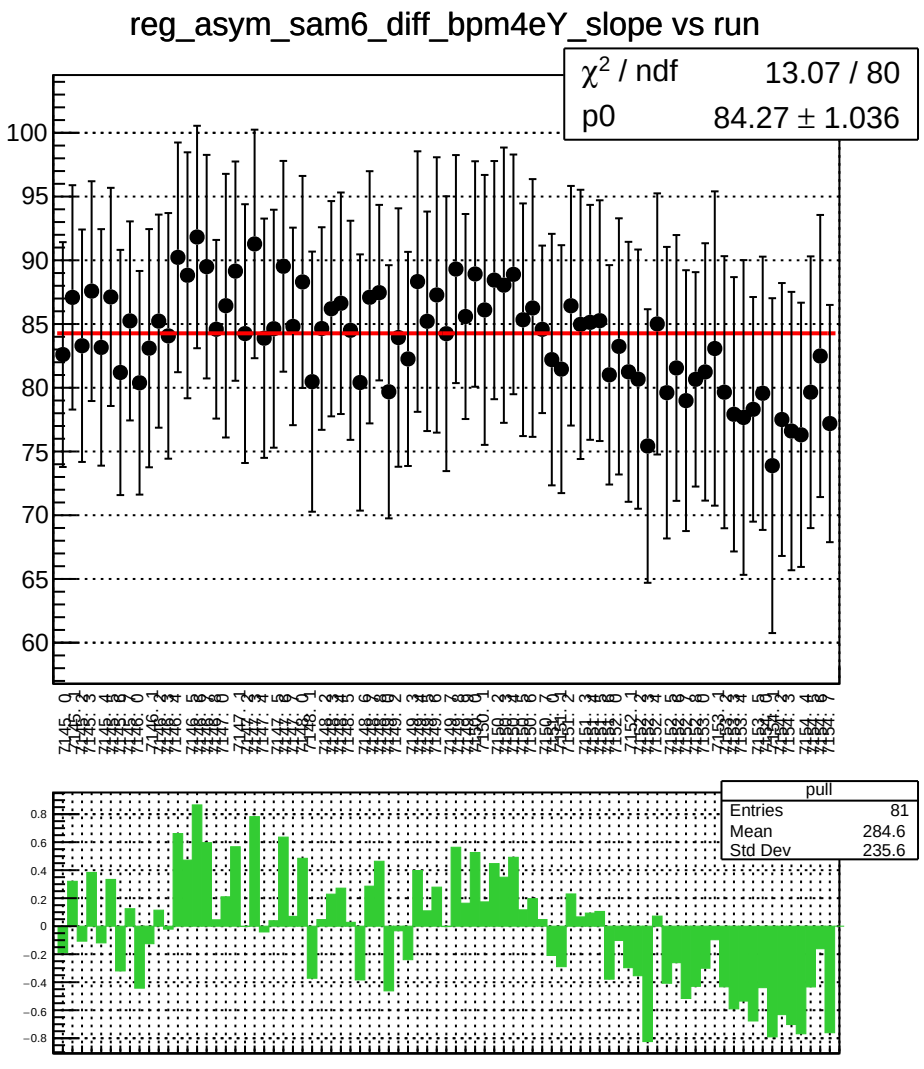

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 12.38 / 80
p0 18.57 ± 1.099
pull
Entries 81
Mean 480.9
Std Dev 436.8

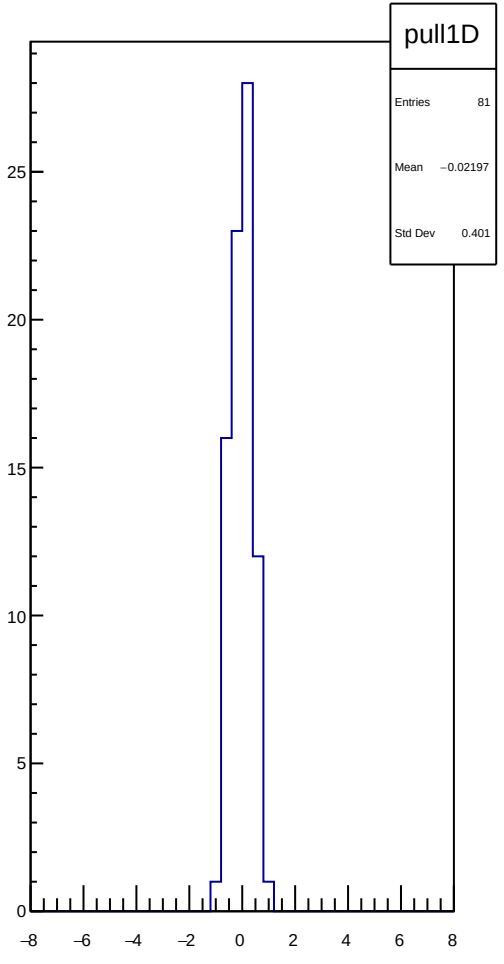

pull1D
Entries 81
Mean −0.01607
Std Dev 0.3905

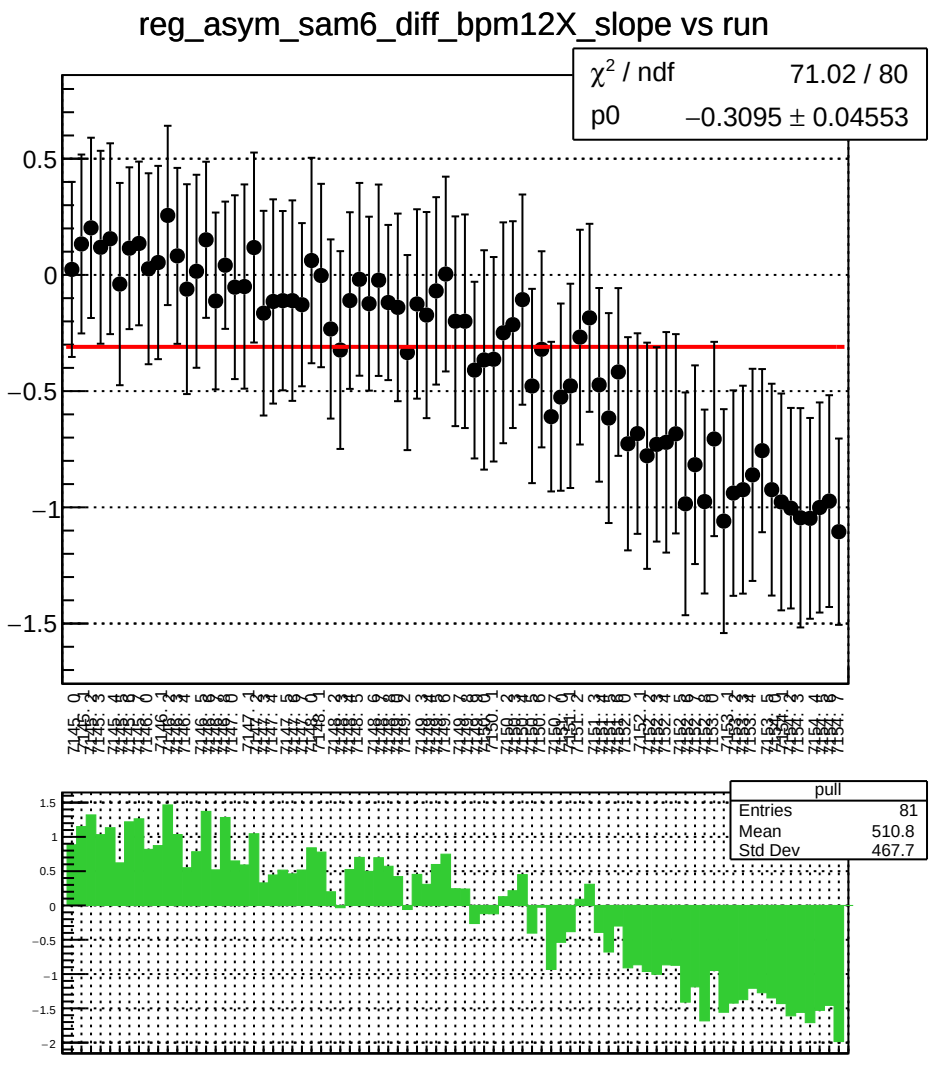

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 9.108 / 80
p0 38.06 ± 0.9486
pull
Entries 81
Mean 242.7
Std Dev 195.8

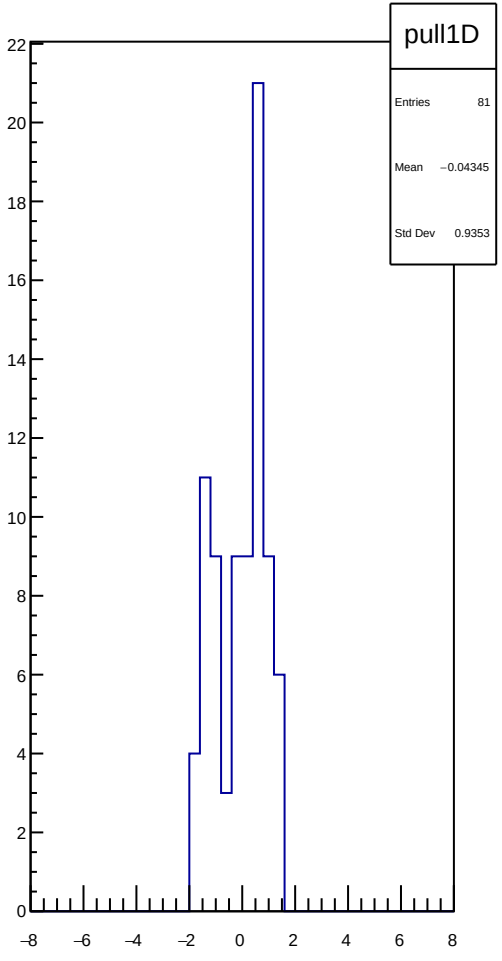

pull1D
Entries 81
Mean 0.0202
Std Dev 0.3347

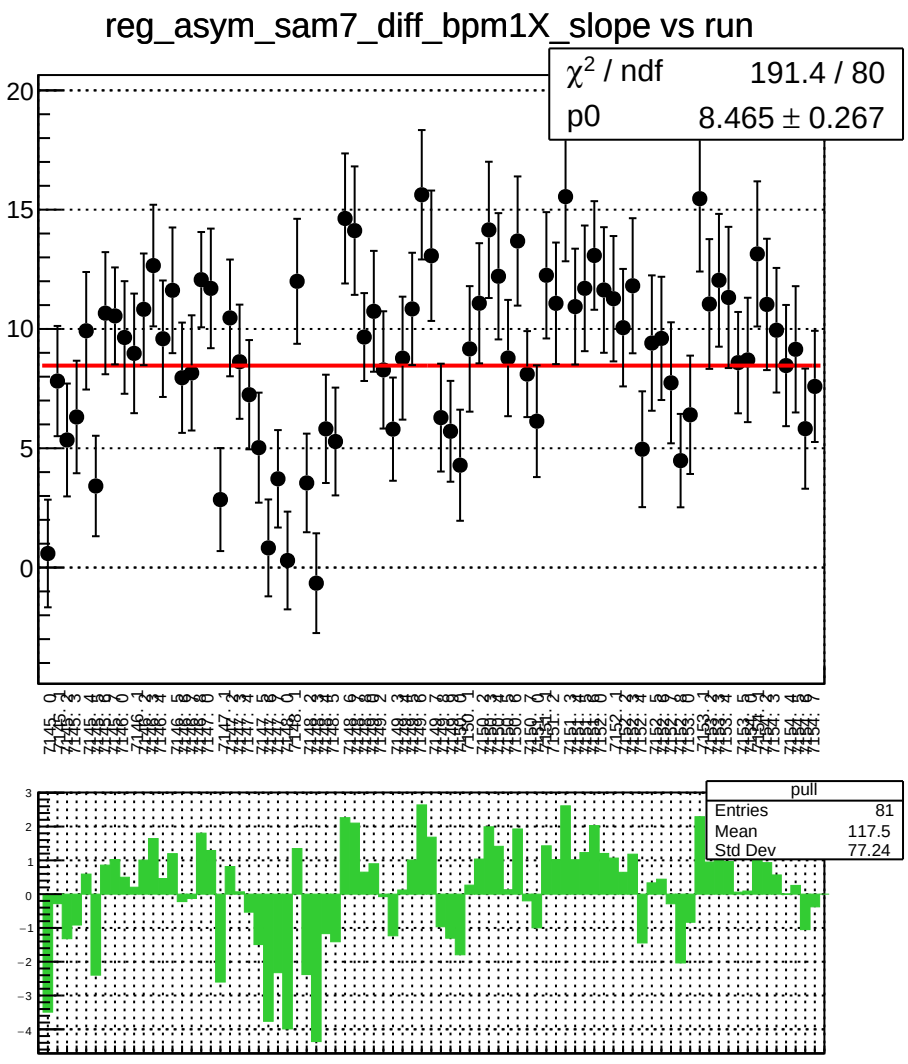

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 14.05 / 80
p0 63.76 ± 1.125
pull
Entries 81
Mean 417.1
Std Dev 373.5
pull1D
Entries 81
Mean 0.02049
Std Dev 0.416

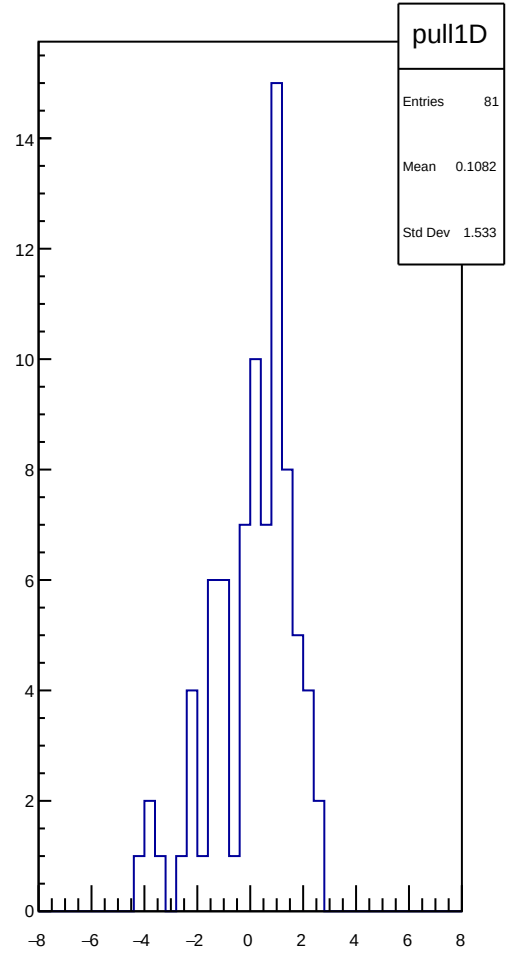

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 13.07 / 80
p0 84.27 ± 1.036
pull
Entries 81
Mean 284.6
Std Dev 235.6

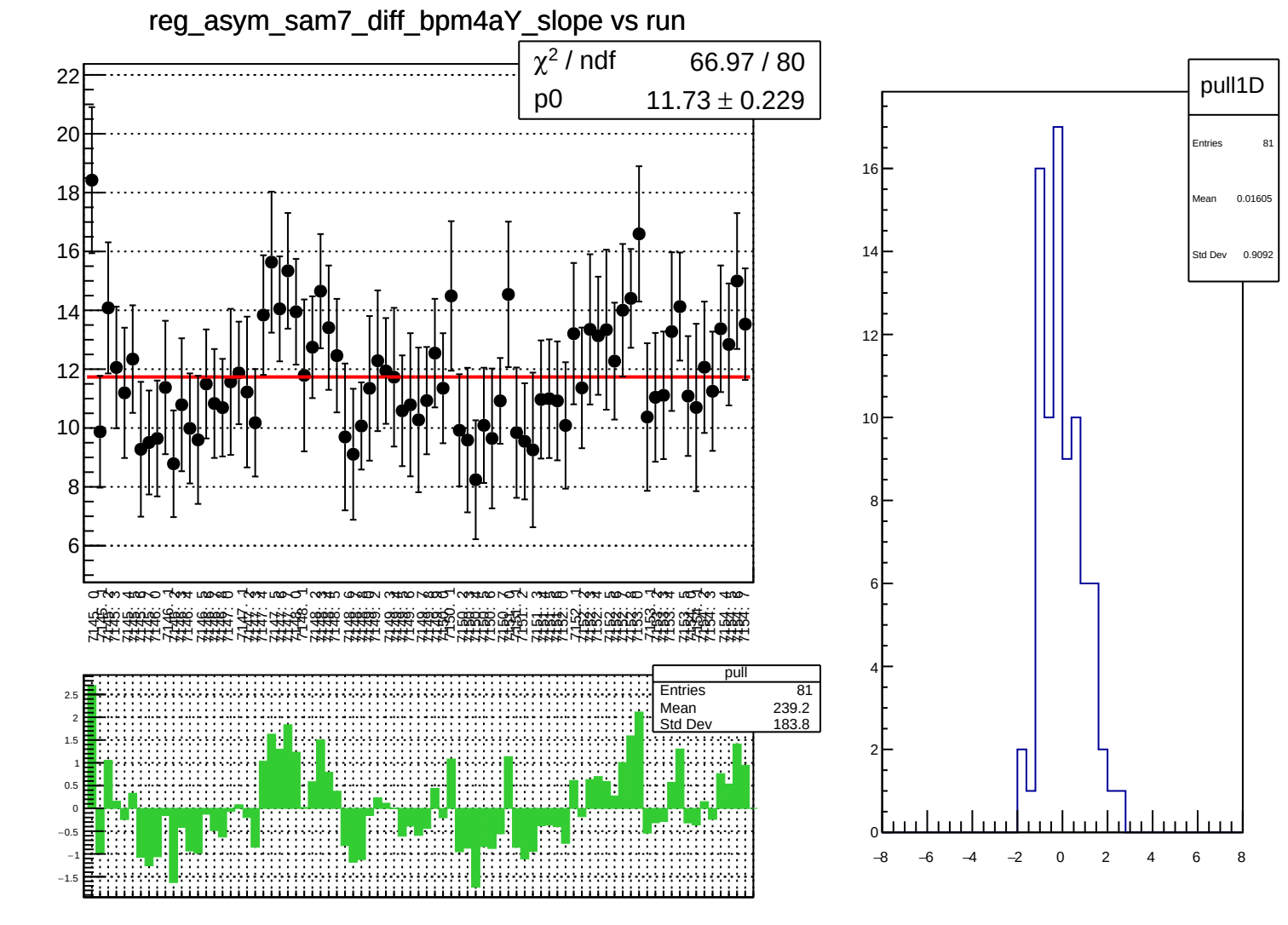

pull1D
Entries 81
Mean −0.02197
Std Dev 0.401

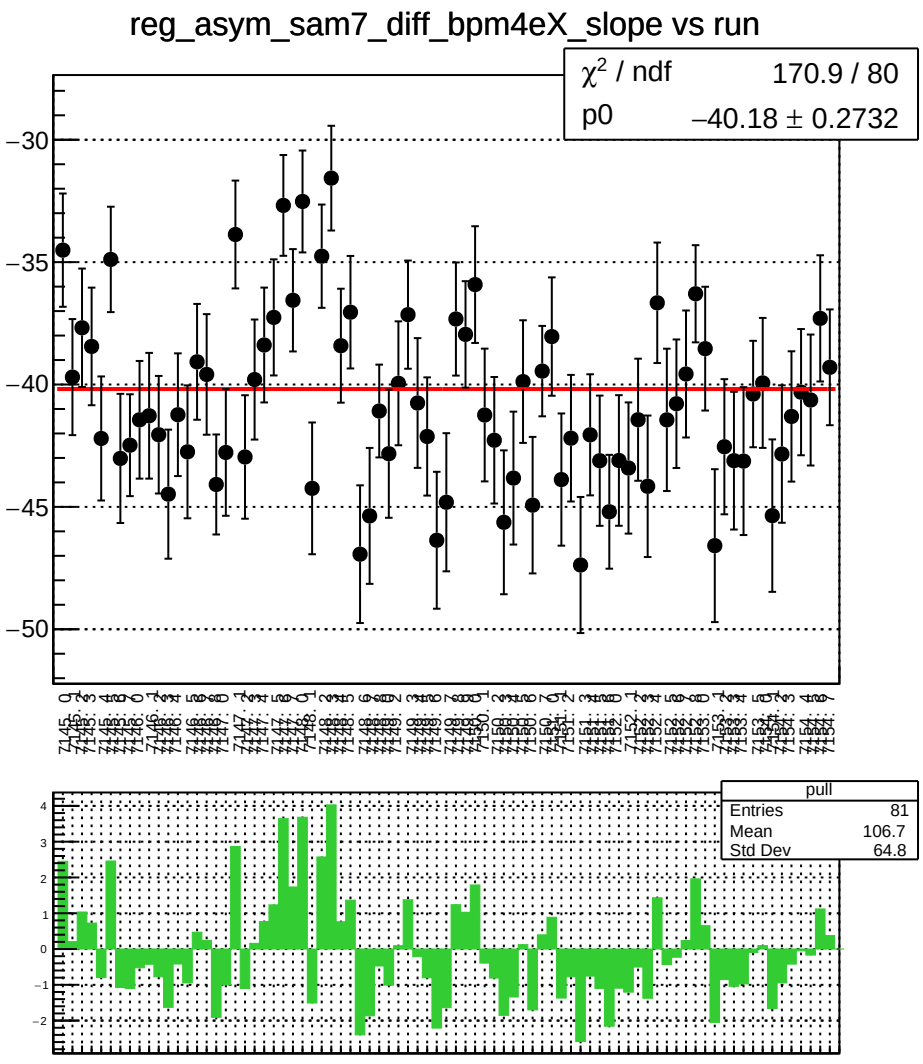

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 71.02 / 80
p0 −0.3095 ± 0.04553
pull
Entries 81
Mean 510.8
Std Dev 467.7

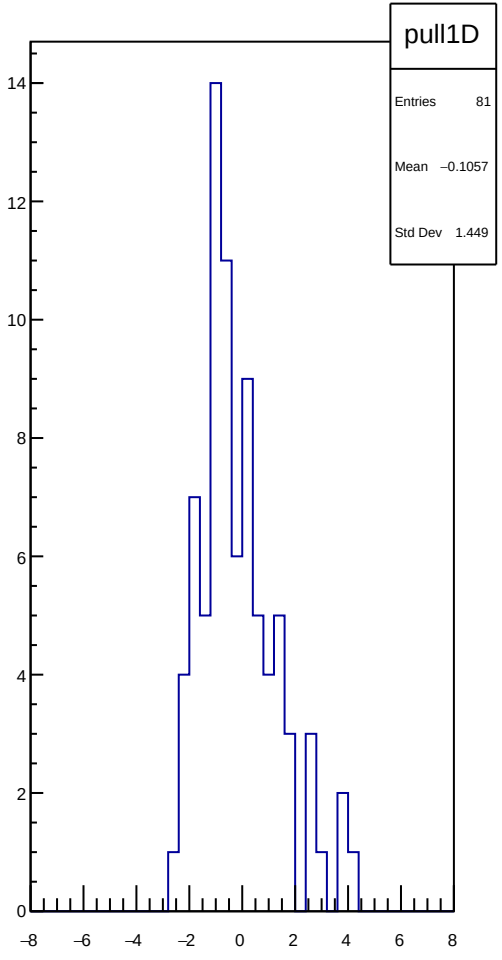

pull1D
Entries 81
Mean −0.04345
Std Dev 0.9353

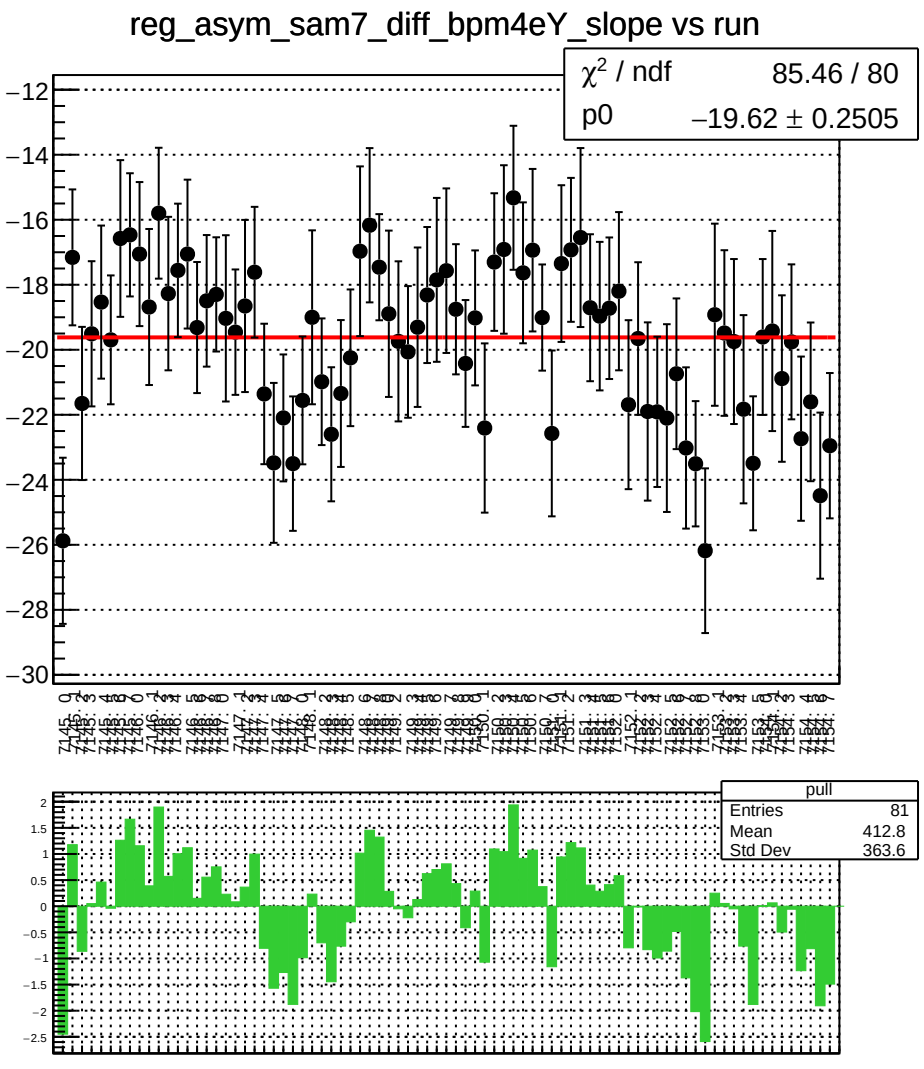

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 191.4 / 80
p0 8.465 ± 0.267
pull
Entries 81
Mean 117.5
Std Dev 77.24

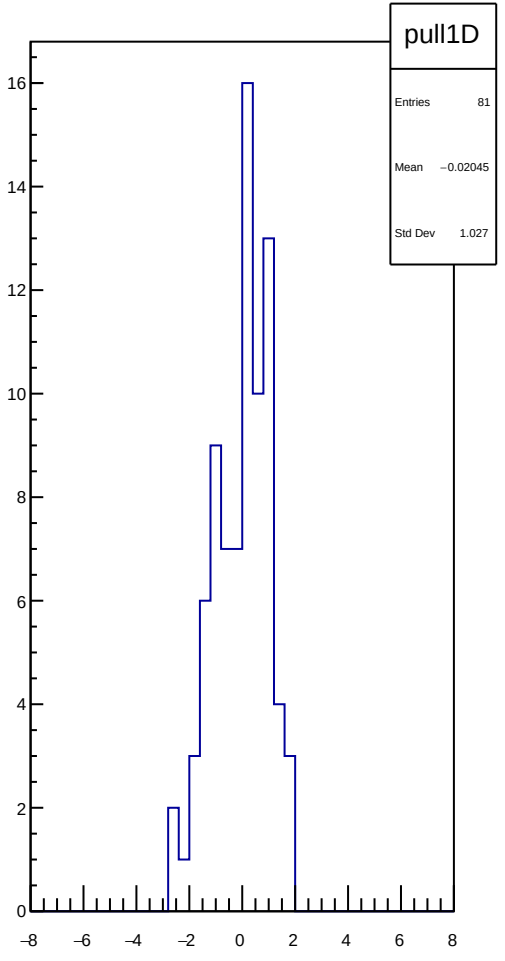

pull1D
Entries 81
Mean 0.1082
Std Dev 1.533

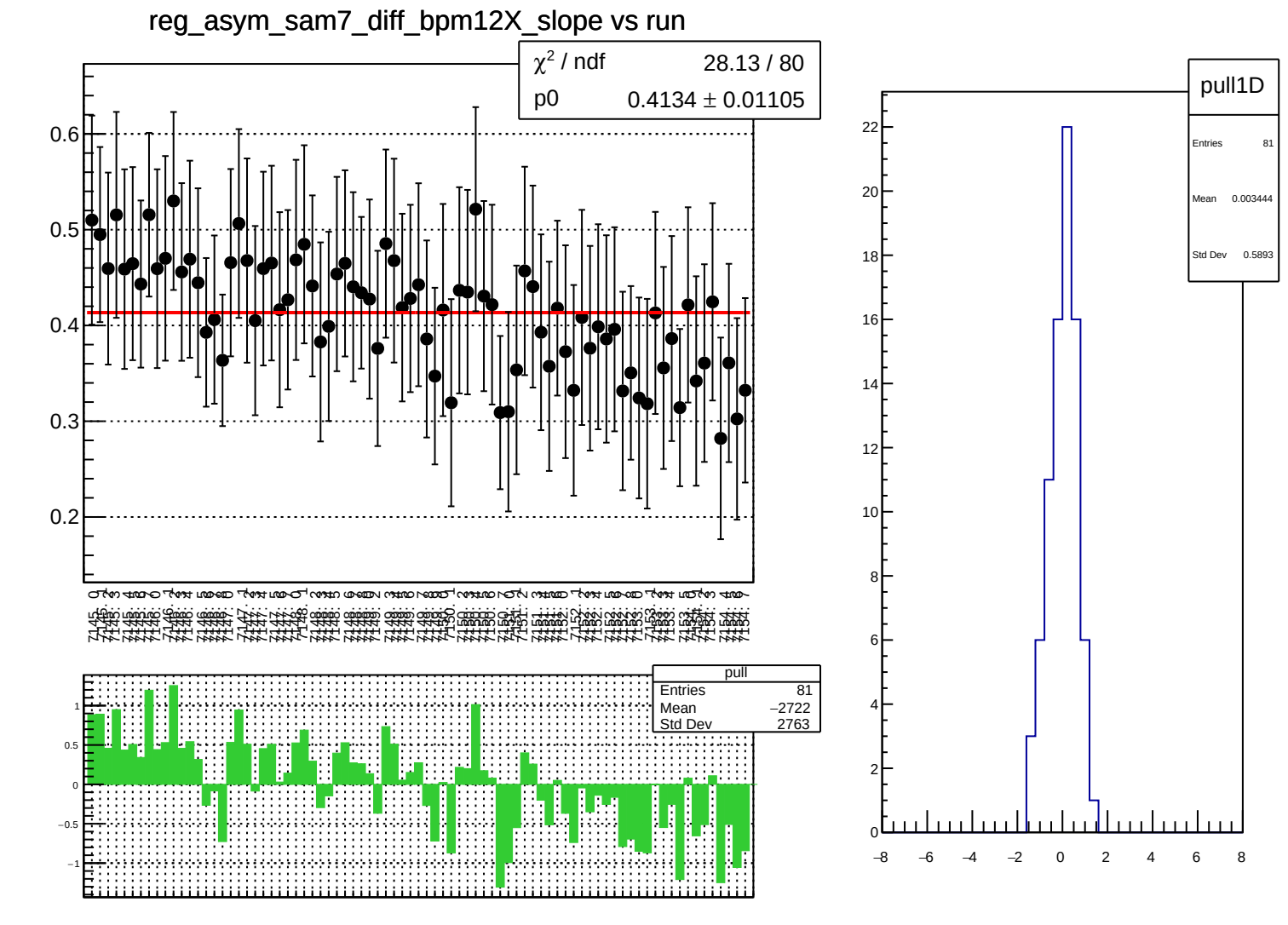

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 66.97 / 80
p0 11.73 ± 0.229
pull
Entries 81
Mean 239.2
Std Dev 183.8
pull1D
Entries 81
Mean 0.01605
Std Dev 0.9092

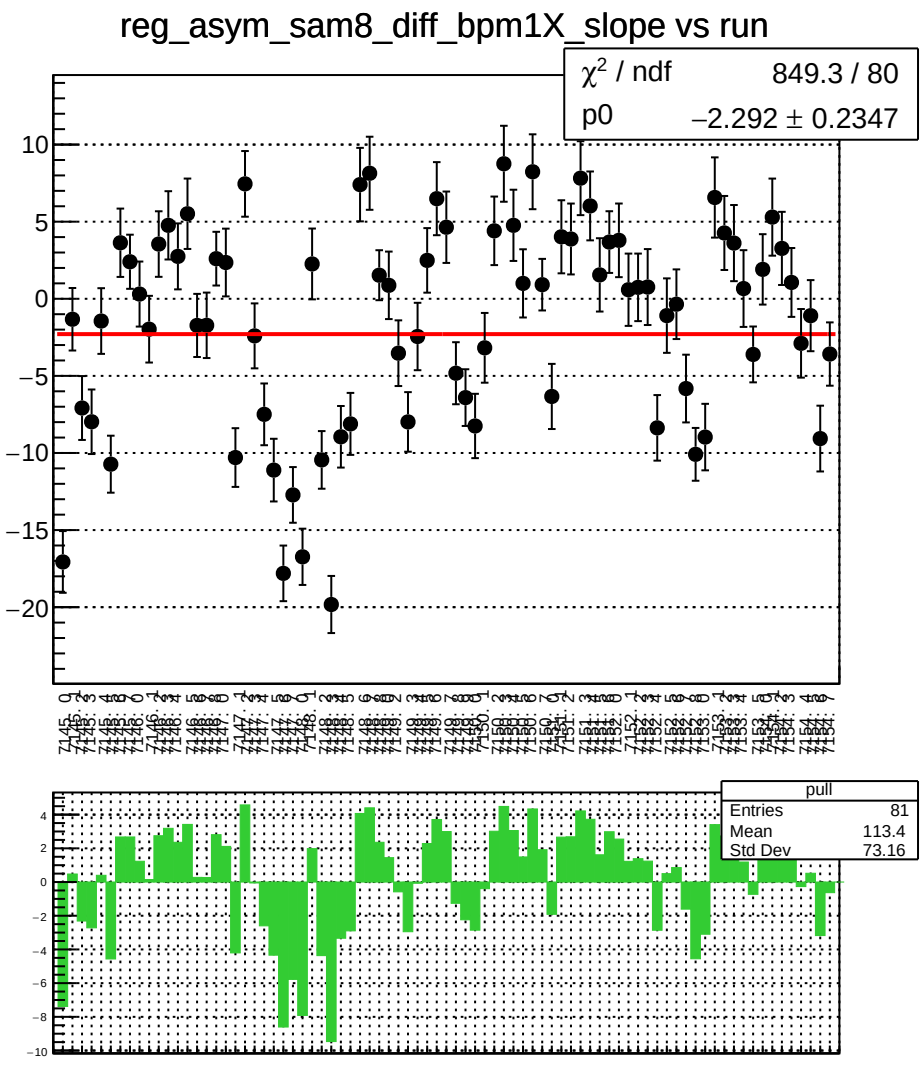

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 170.9 / 80
p0 −40.18 ± 0.2732
pull
Entries 81
Mean 106.7
Std Dev 64.8

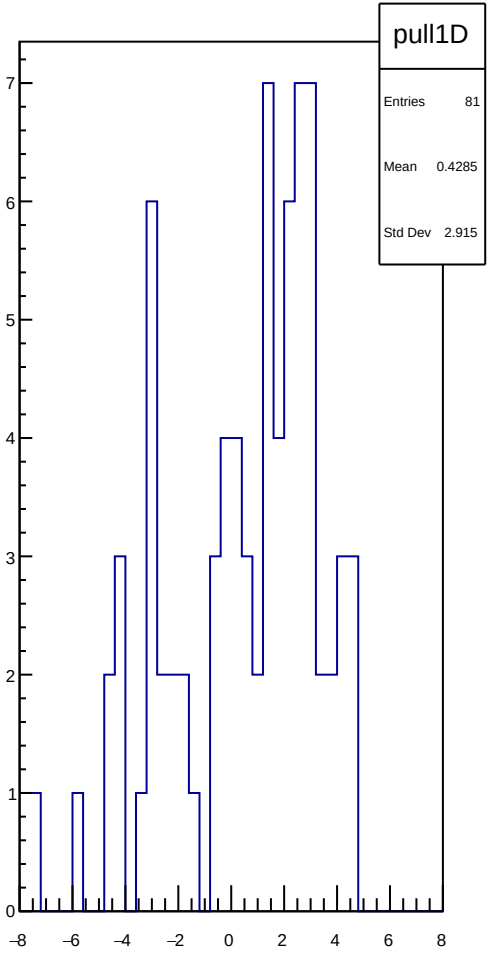

pull1D
Entries 81
Mean −0.1057
Std Dev 1.449

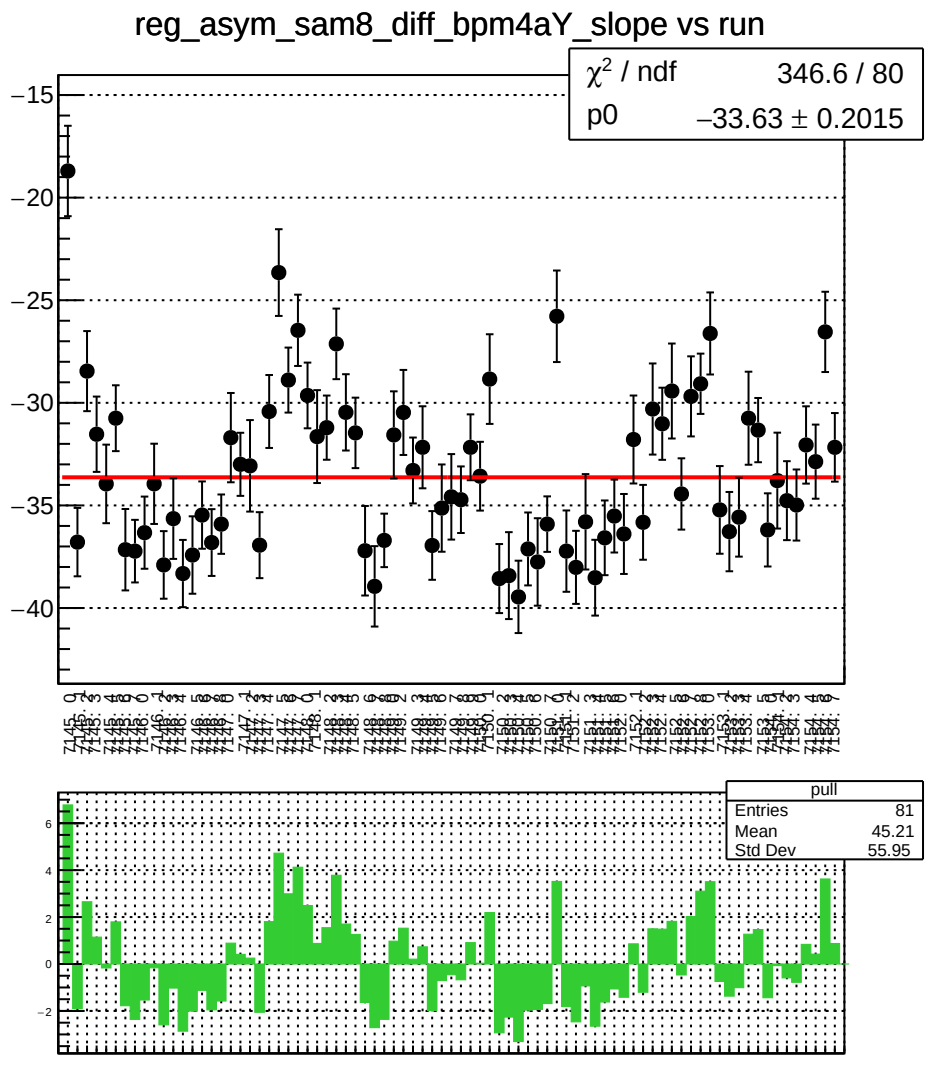

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 85.46 / 80
p0 −19.62 ± 0.2505
pull
Entries 81
Mean 412.8
Std Dev 363.6

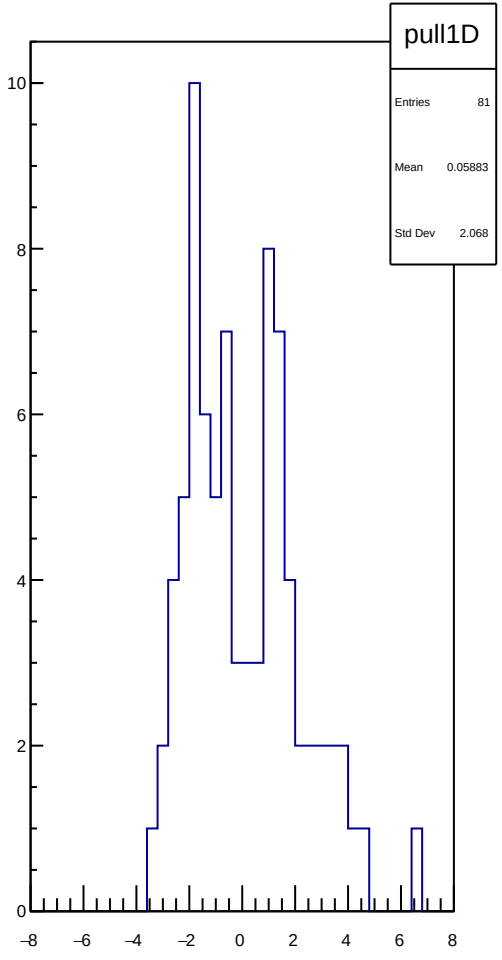

pull1D
Entries 81
Mean −0.02045
Std Dev 1.027

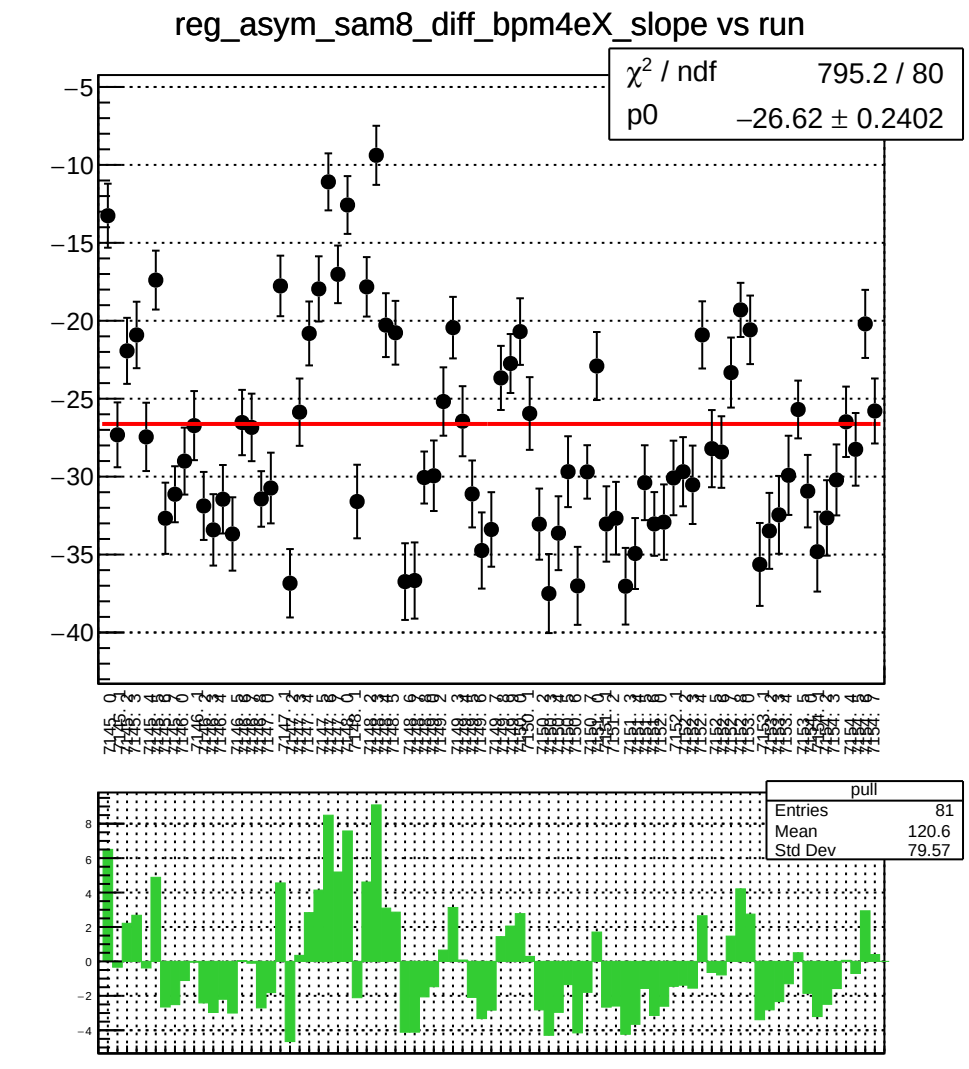

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 28.13 / 80
p0 0.4134 ± 0.01105
pull
Entries 81
Mean −2722
Std Dev 2763
pull1D
Entries 81
Mean 0.003444
Std Dev 0.5893

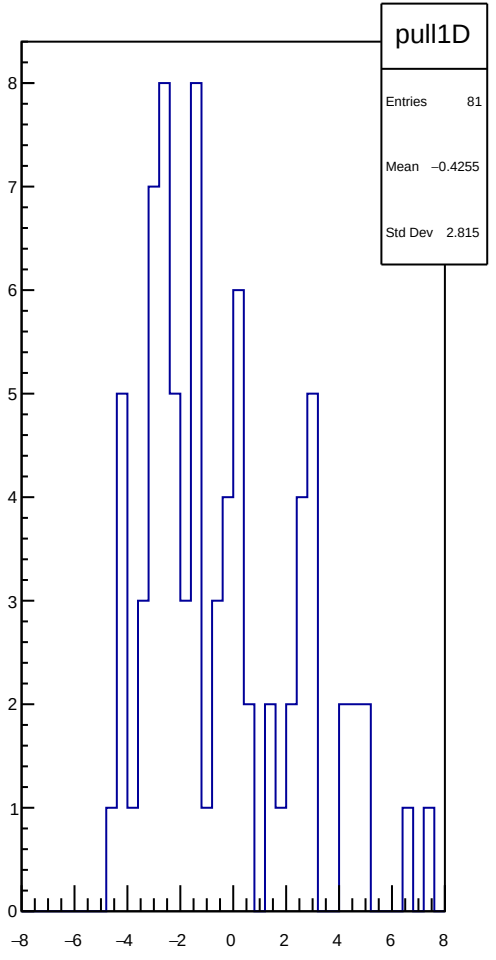

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 849.3 / 80
p0 −2.292 ± 0.2347
pull
Entries 81
Mean 113.4
Std Dev 73.16

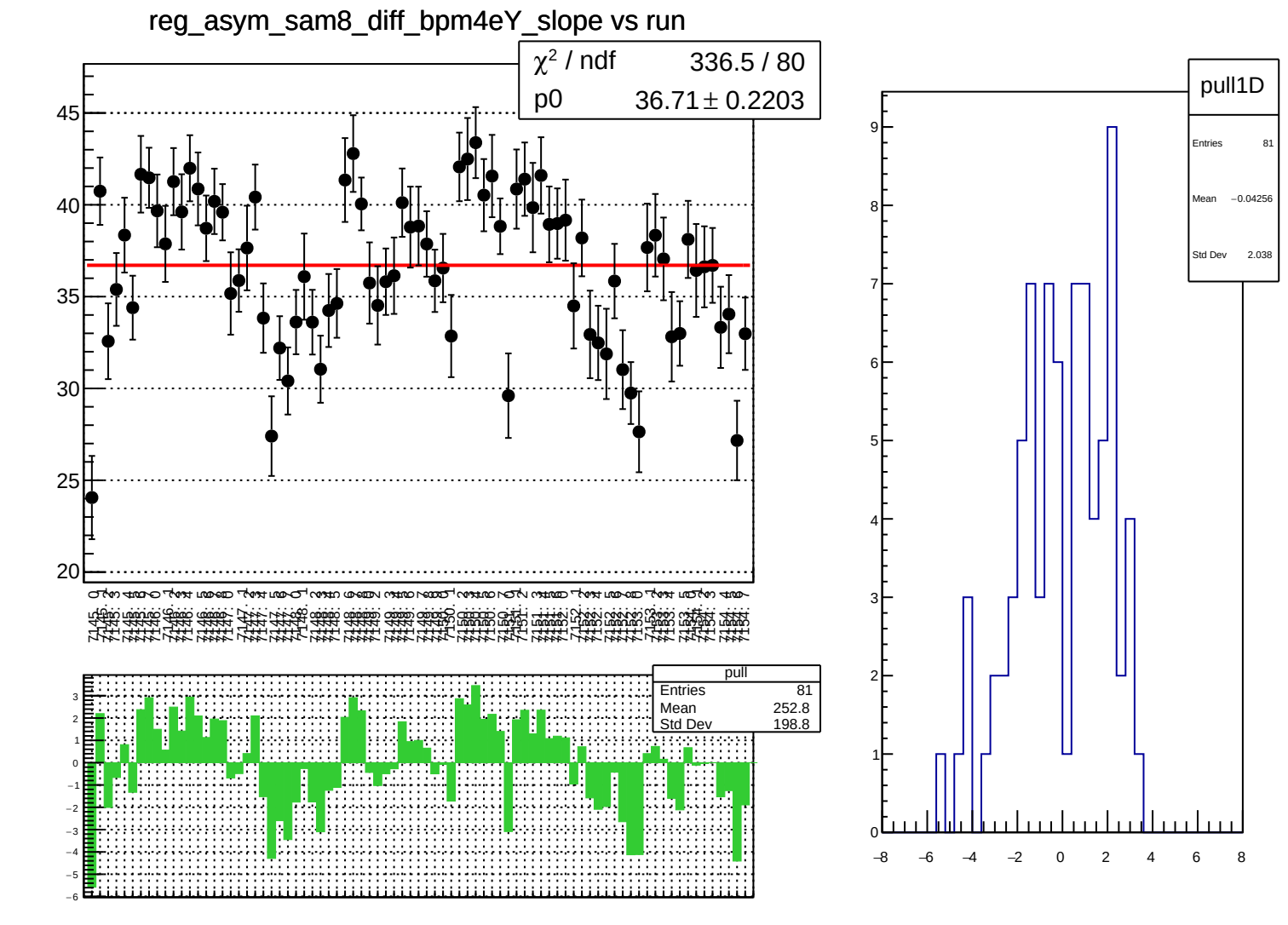

pull1D
Entries 81
Mean 0.4285
Std Dev 2.915

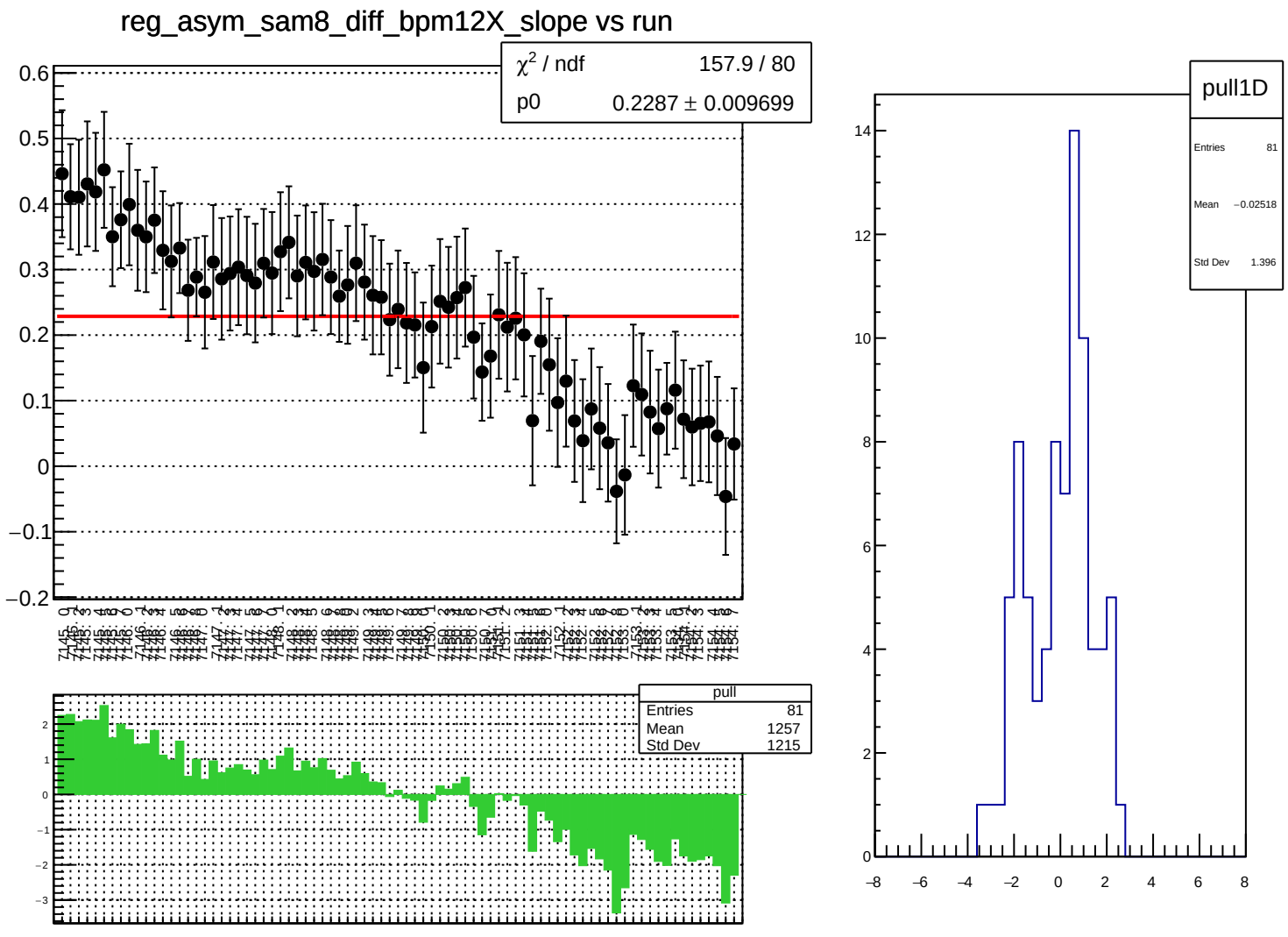

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 346.6 / 80
p0 −33.63 ± 0.2015
pull
Entries 81
Mean 45.21
Std Dev 55.95

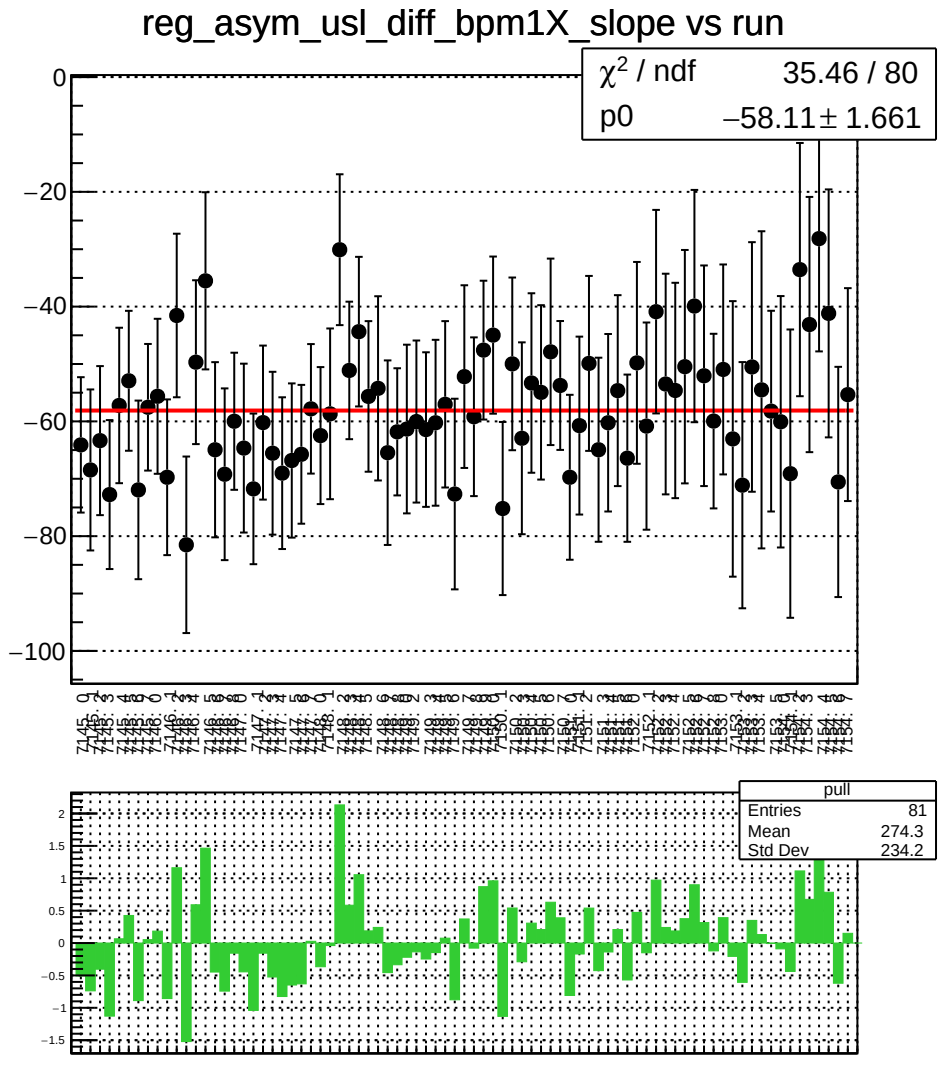

pull1D
Entries 81
Mean 0.05883
Std Dev 2.068

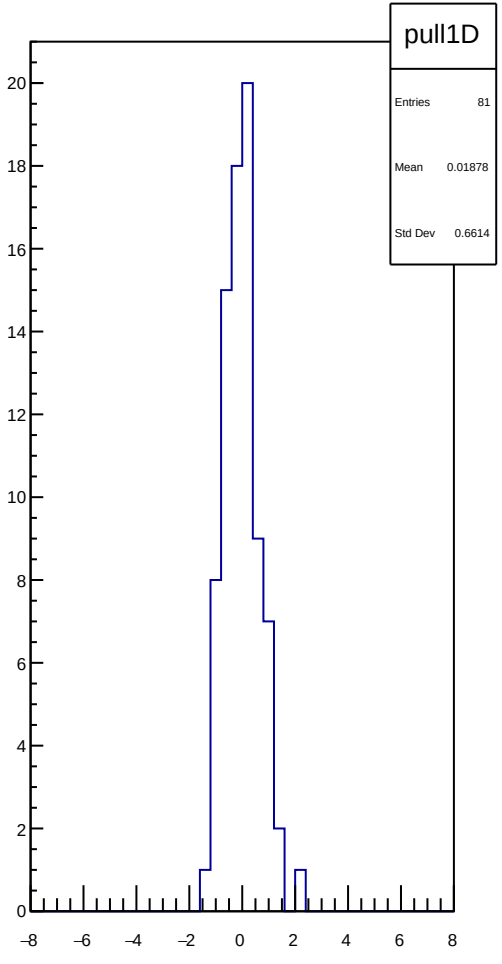

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 795.2 / 80
p0 −26.62 ± 0.2402
pull
Entries 81
Mean 120.6
Std Dev 79.57

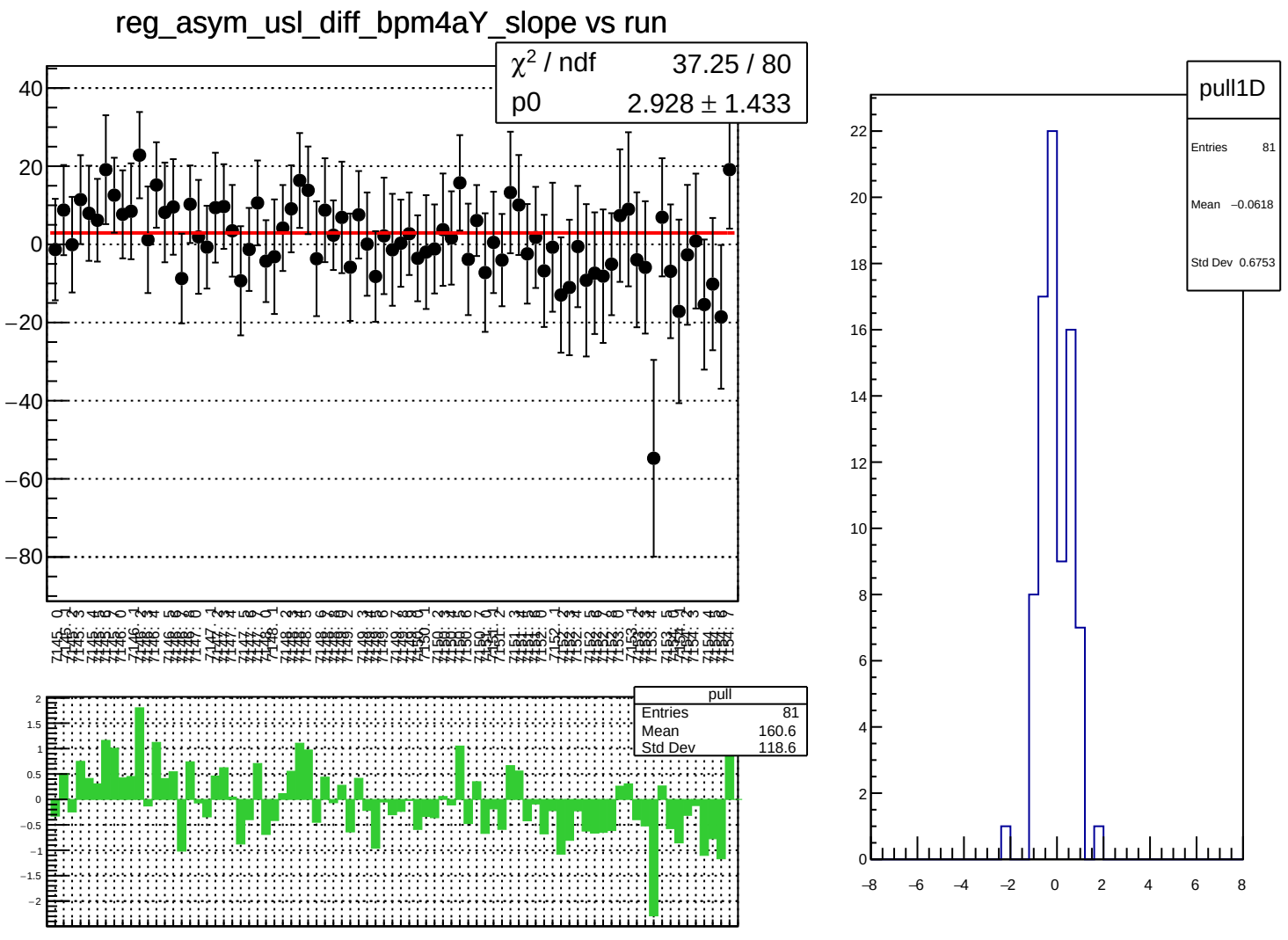

pull1D
Entries 81
Mean −0.4255
Std Dev 2.815

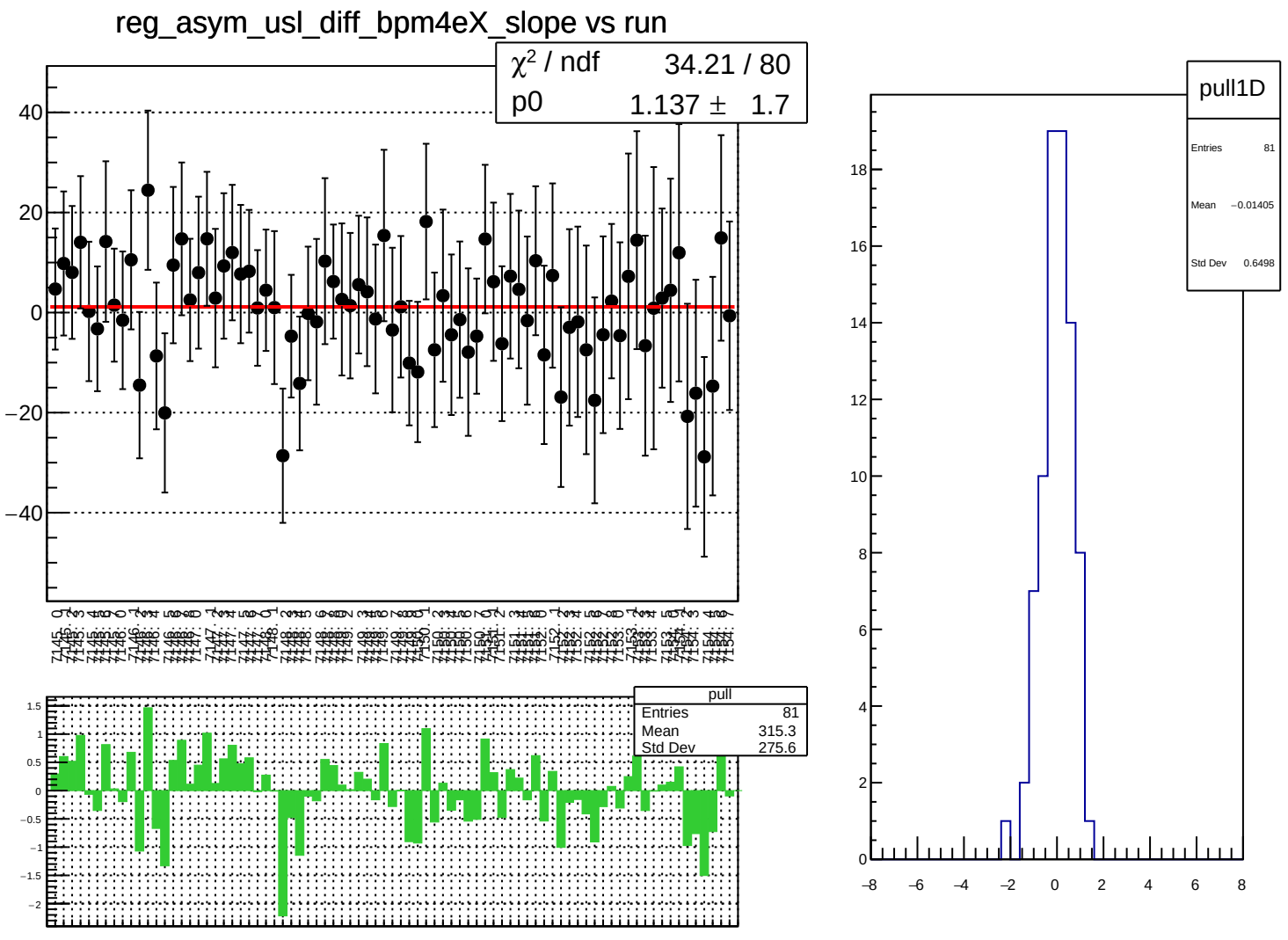

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 336.5 / 80
p0 36.71 ± 0.2203
pull
Entries 81
Mean 252.8
Std Dev 198.8
pull1D
Entries 81
Mean −0.04256
Std Dev 2.038

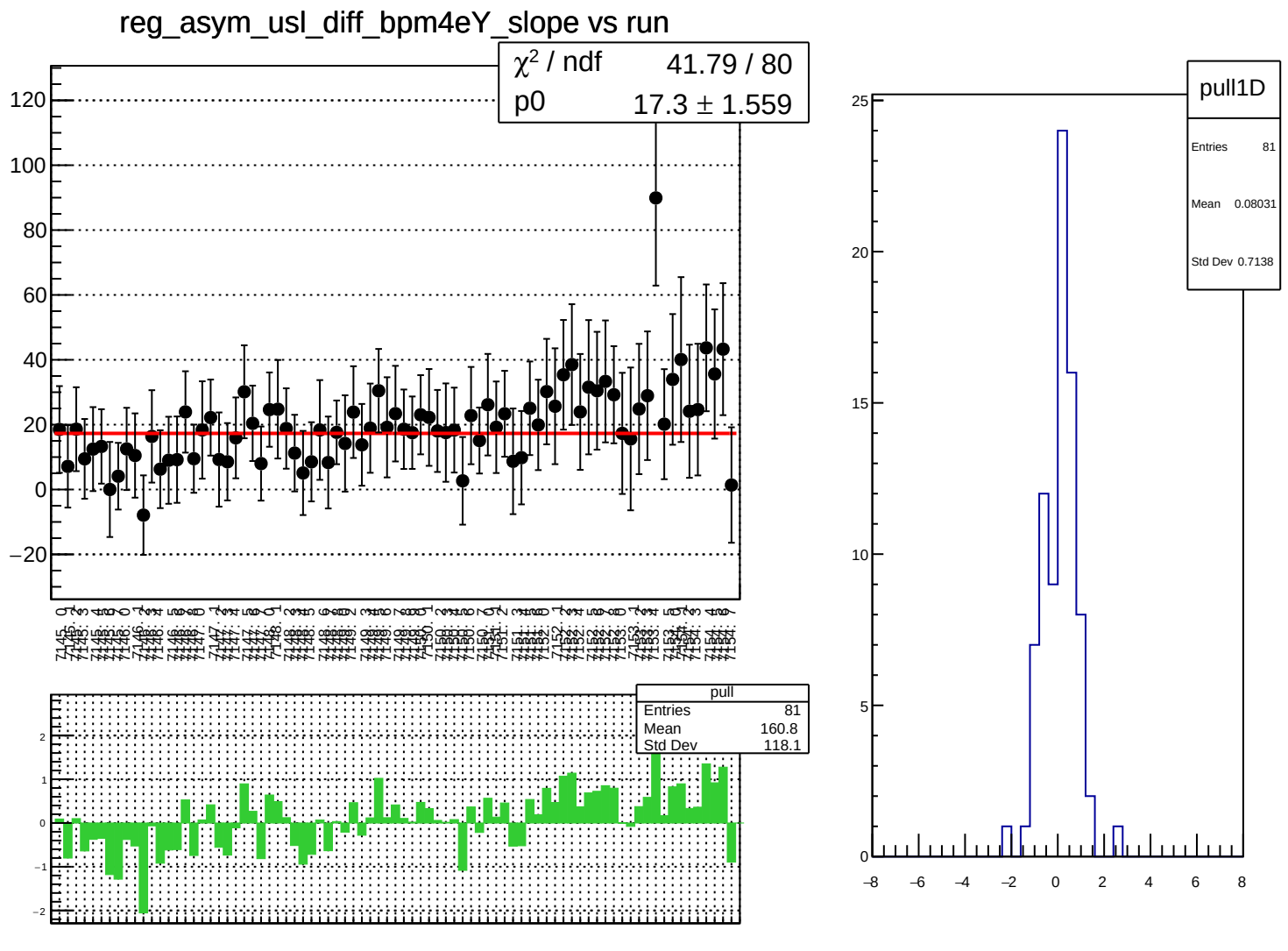

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 157.9 / 80
p0 0.2287 ± 0.009699
pull
Entries 81
Mean 1257
Std Dev 1215
pull1D
Entries 81
Mean −0.02518
Std Dev 1.396

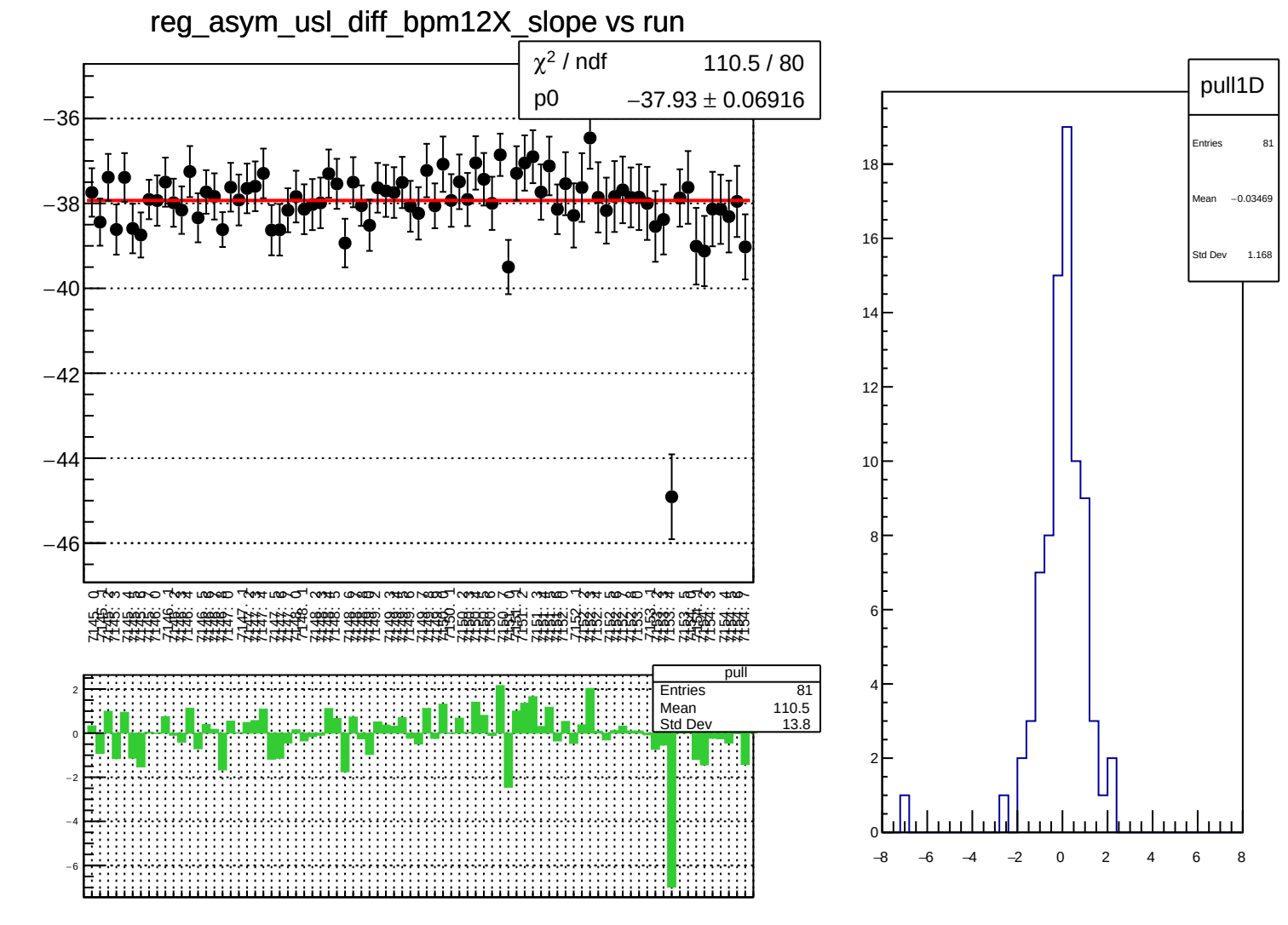

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 35.46 / 80
p0 −58.11 ± 1.661
pull
Entries 81
Mean 274.3
Std Dev 234.2

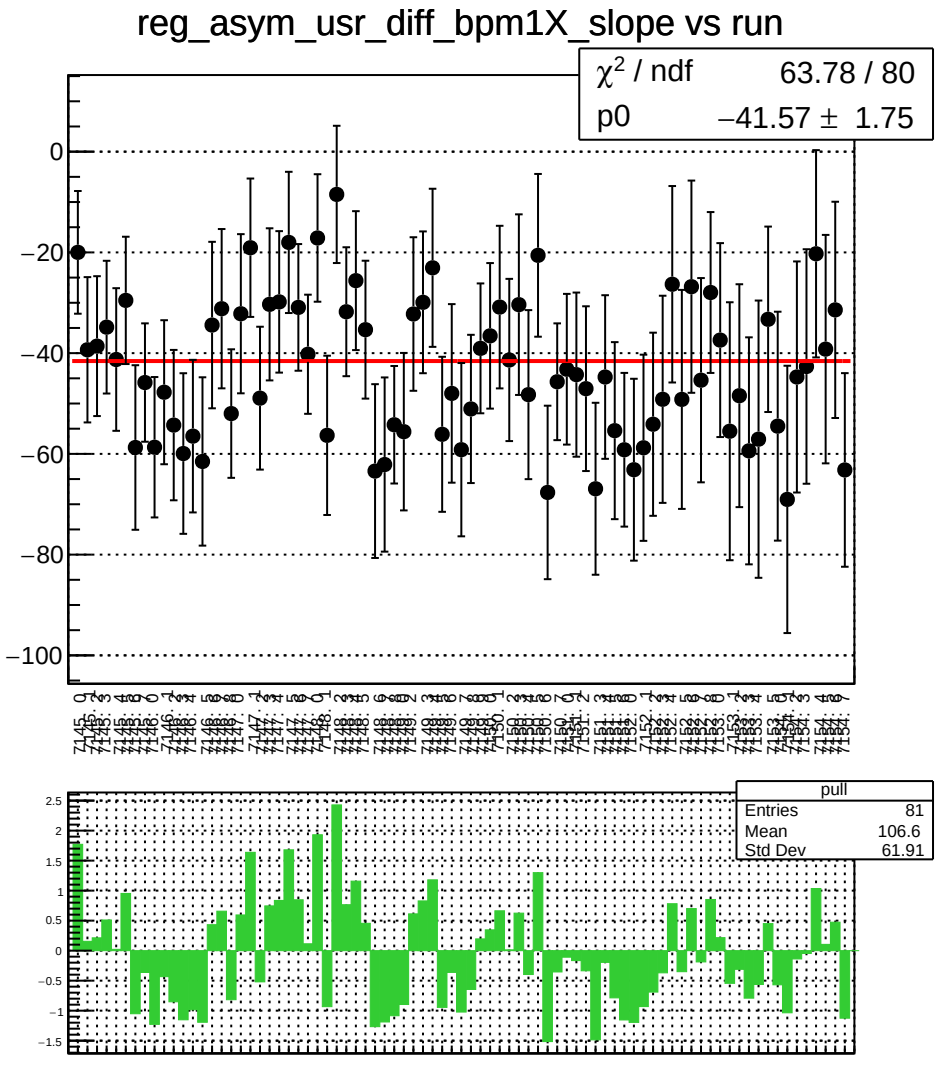

pull1D
Entries 81
Mean 0.01878
Std Dev 0.6614

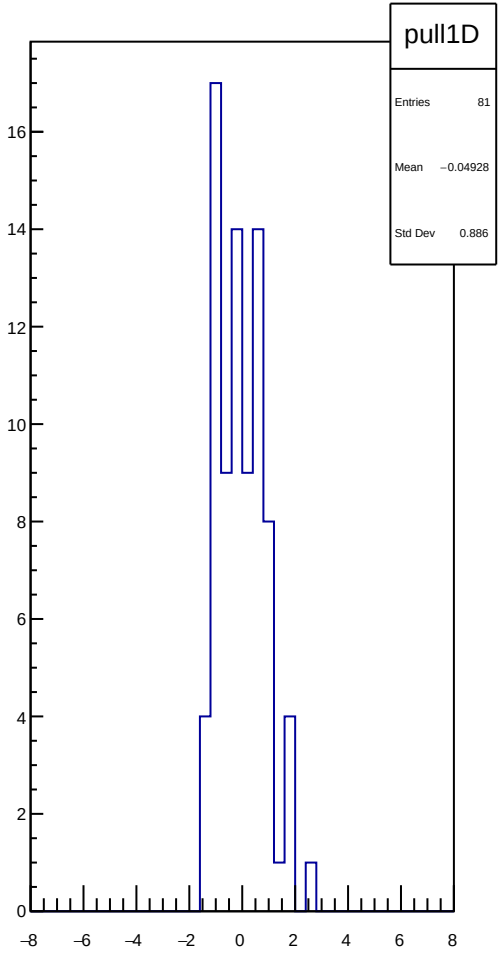

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 37.25 / 80
p0 2.928 ± 1.433
pull
Entries 81
Mean 160.6
Std Dev 118.6
pull1D
Entries 81
Mean −0.0618
Std Dev 0.6753

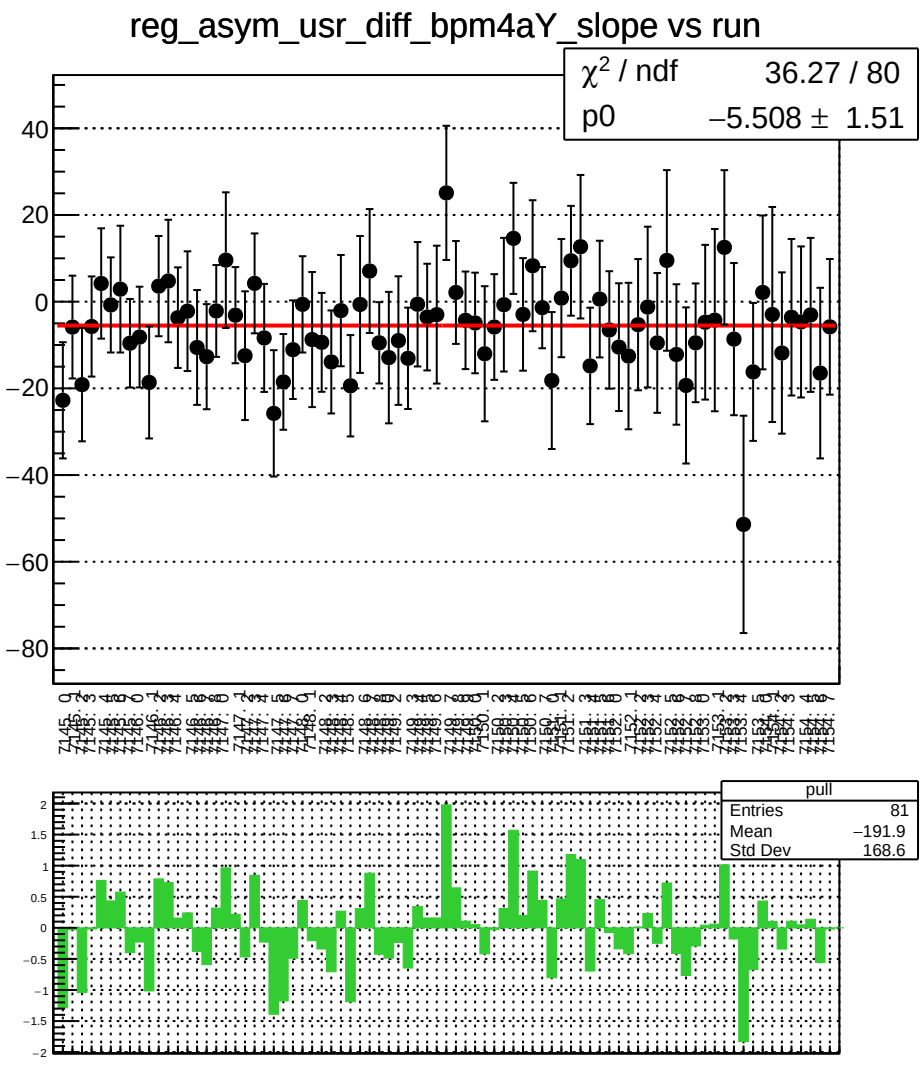

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 34.21 / 80
p0 1.137 ± 1.7
pull
Entries 81
Mean 315.3
Std Dev 275.6
pull1D
Entries 81
Mean −0.01405
Std Dev 0.6498

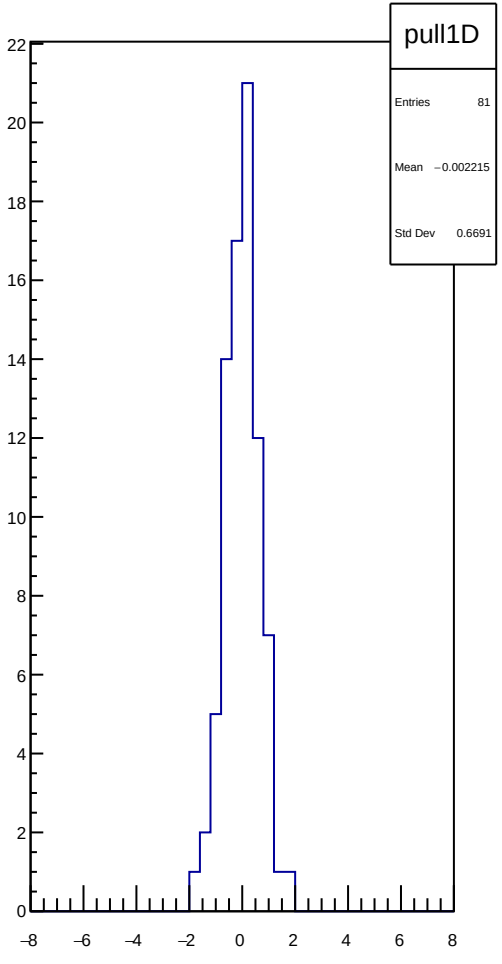

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 41.79 / 80
p0 17.3 ± 1.559
pull
Entries 81
Mean 160.8
Std Dev 118.1
pull1D
Entries 81
Mean 0.08031
Std Dev 0.7138

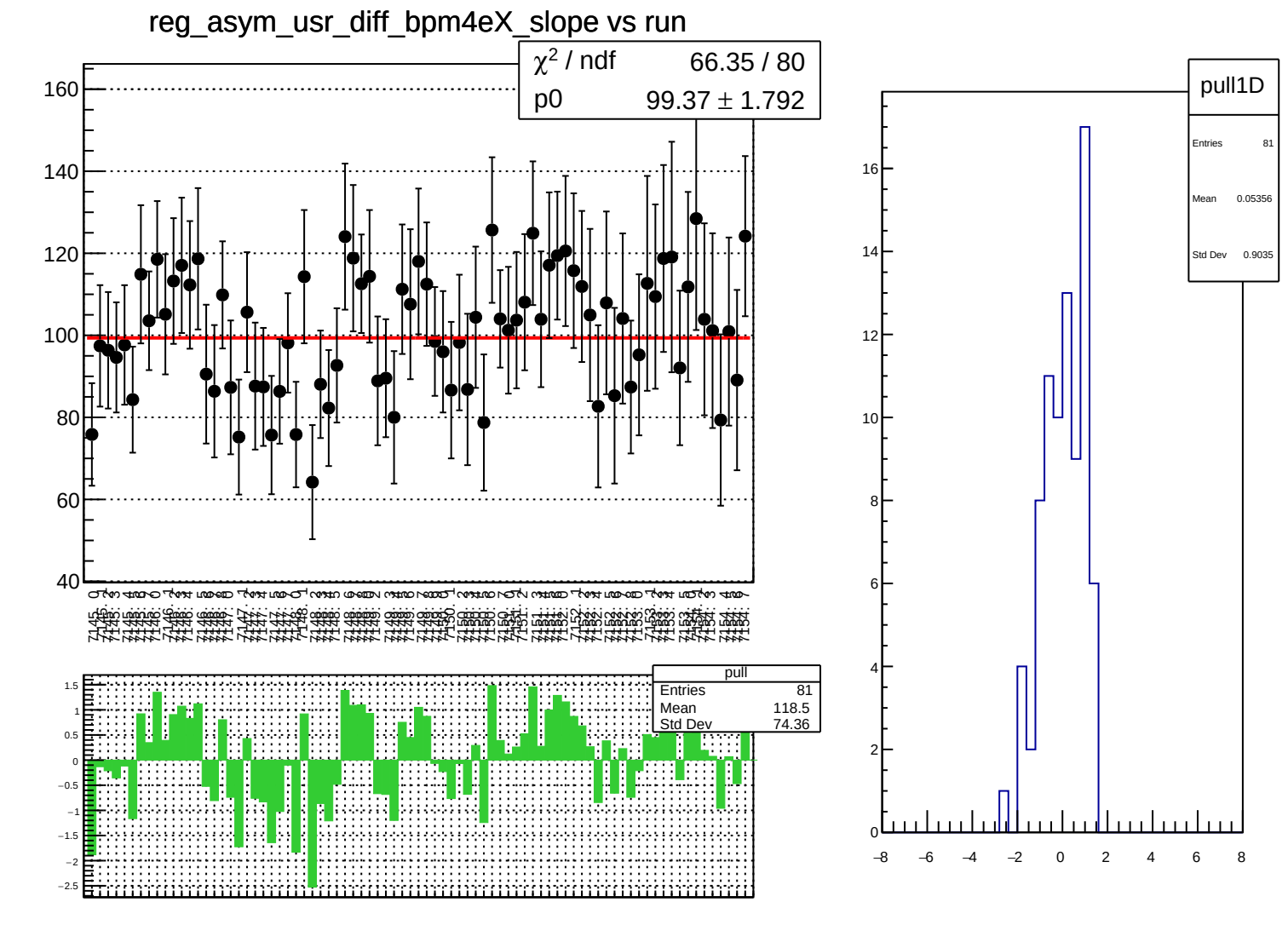

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 110.5 / 80
p0 −37.93 ± 0.06916
pull
Entries 81
Mean 110.5
Std Dev 13.8
pull1D
Entries 81
Mean −0.03469
Std Dev 1.168

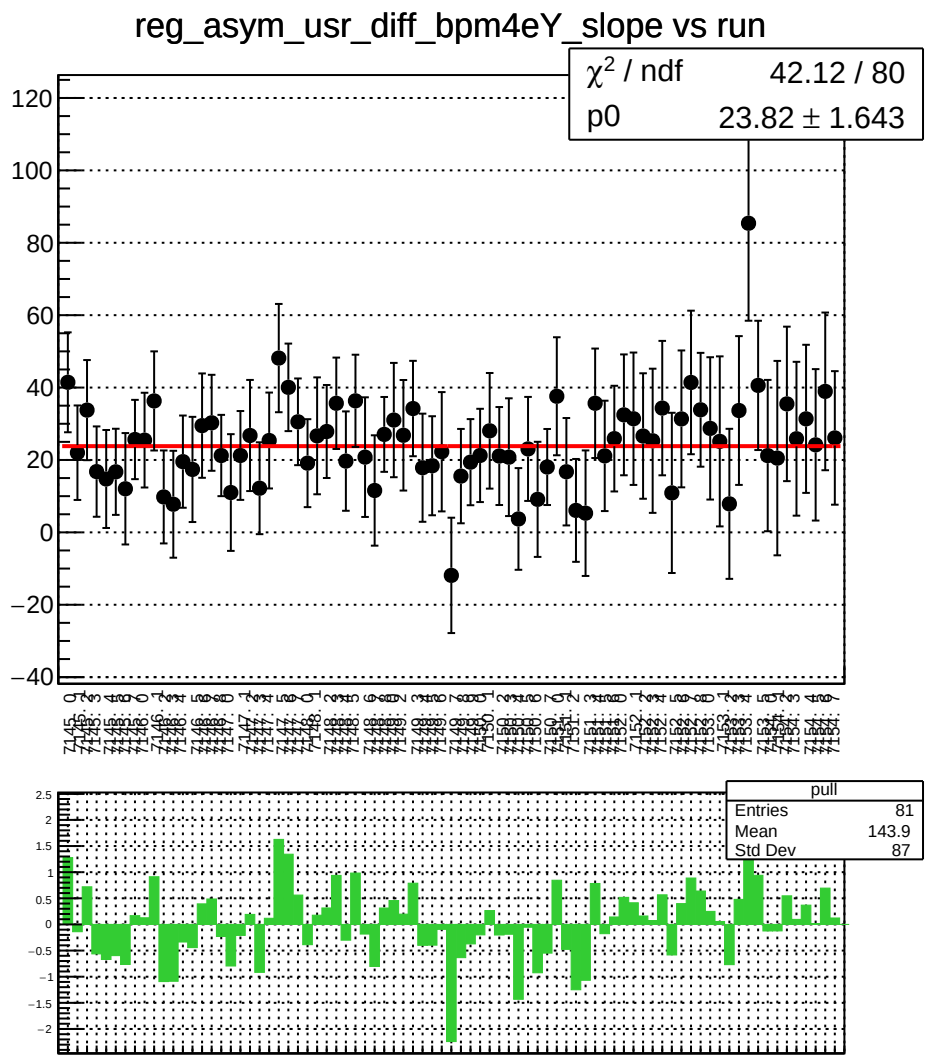

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 63.78 / 80
p0 −41.57 ± 1.75
pull
Entries 81
Mean 106.6
Std Dev 61.91

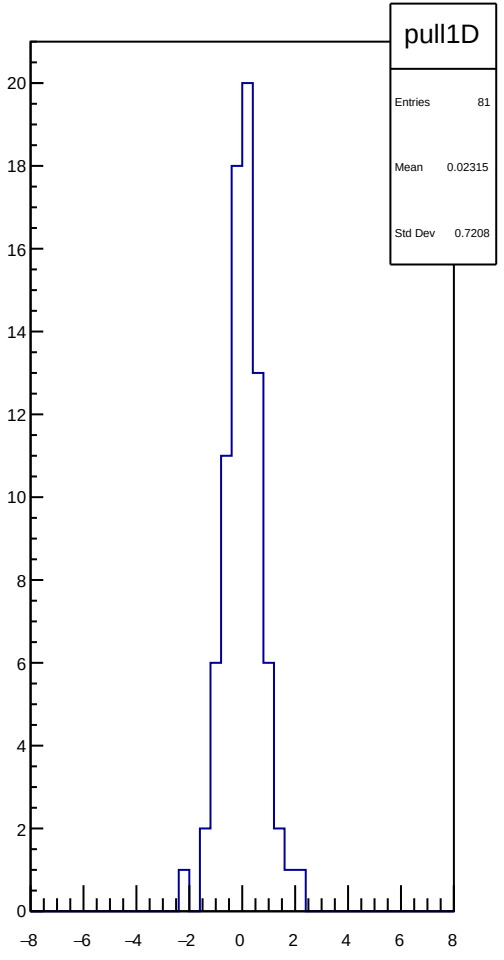

pull1D
Entries 81
Mean −0.04928
Std Dev 0.886

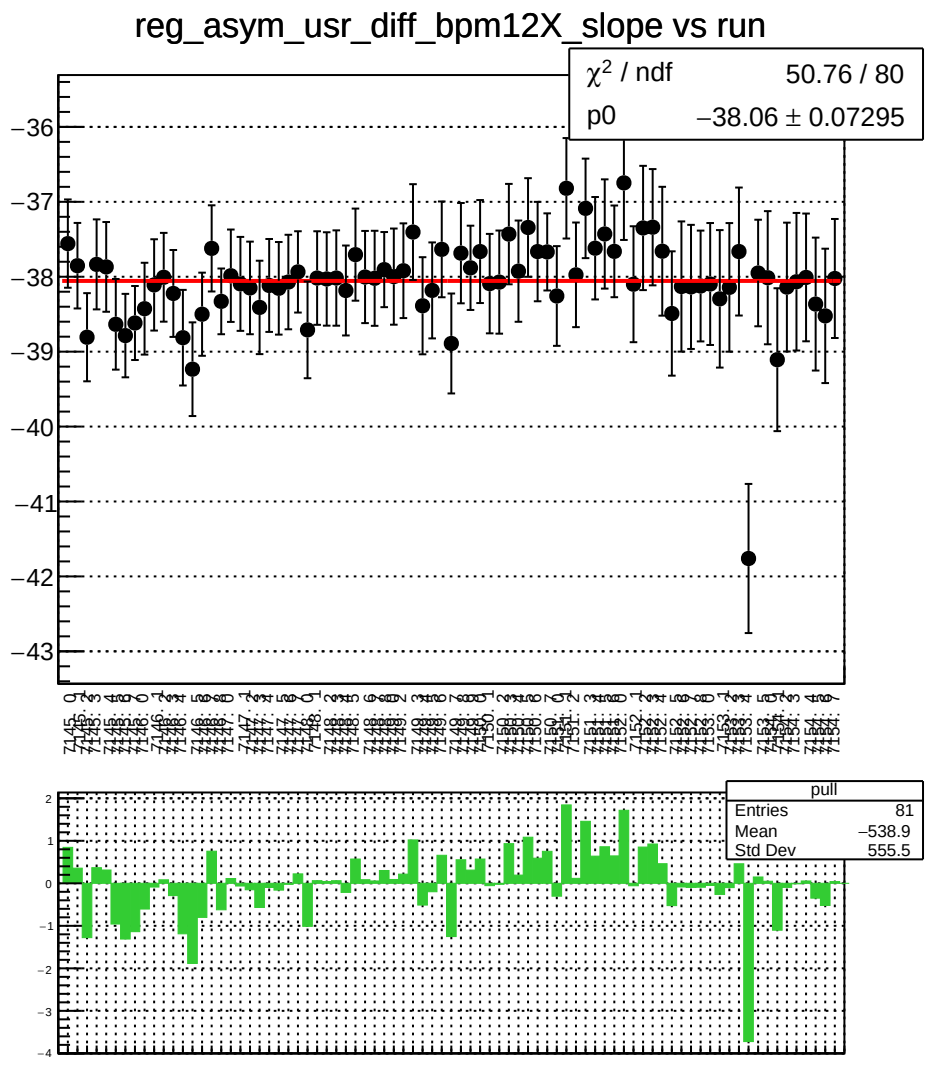

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 36.27 / 80
p0 −5.508 ± 1.51
pull
Entries 81
Mean −191.9
Std Dev 168.6

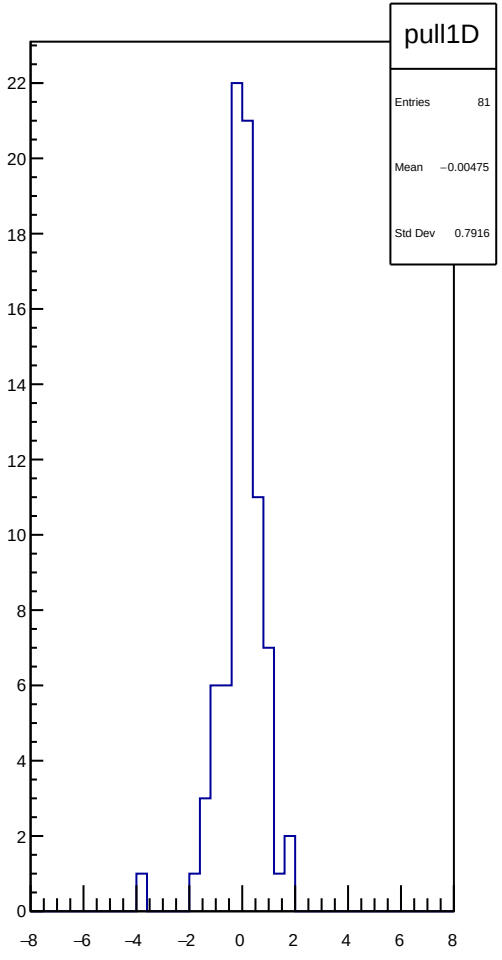

pull1D
Entries 81
Mean −0.002215
Std Dev 0.6691

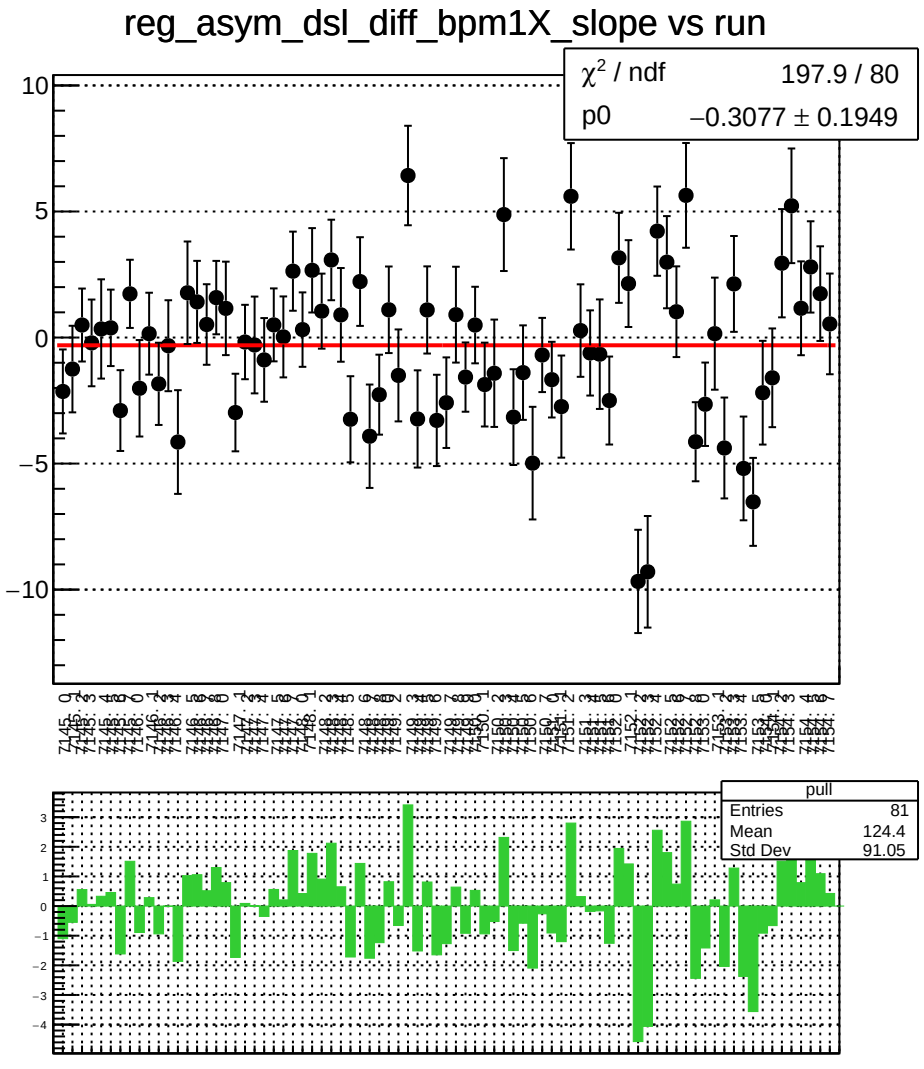

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 66.35 / 80
p0 99.37 ± 1.792
pull
Entries 81
Mean 118.5
Std Dev 74.36
pull1D
Entries 81
Mean 0.05356
Std Dev 0.9035

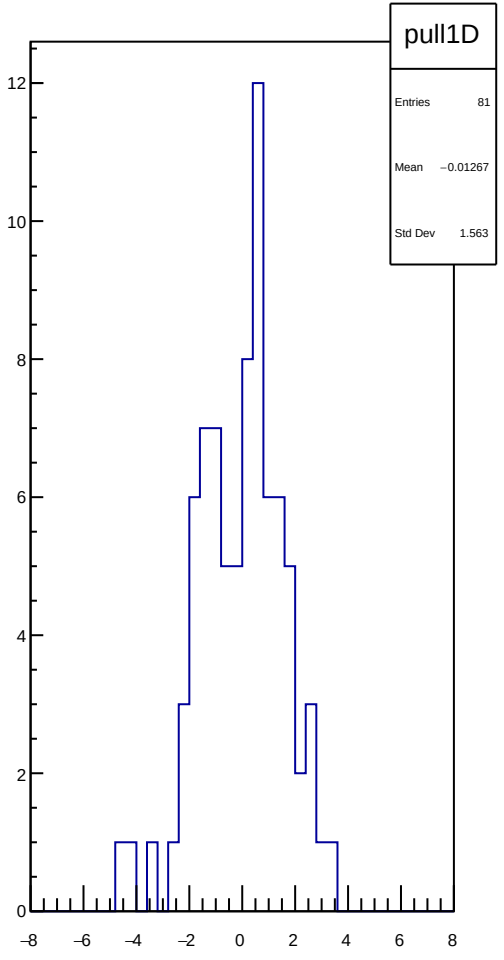

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 42.12 / 80
p0 23.82 ± 1.643
pull
Entries 81
Mean 143.9
Std Dev 87

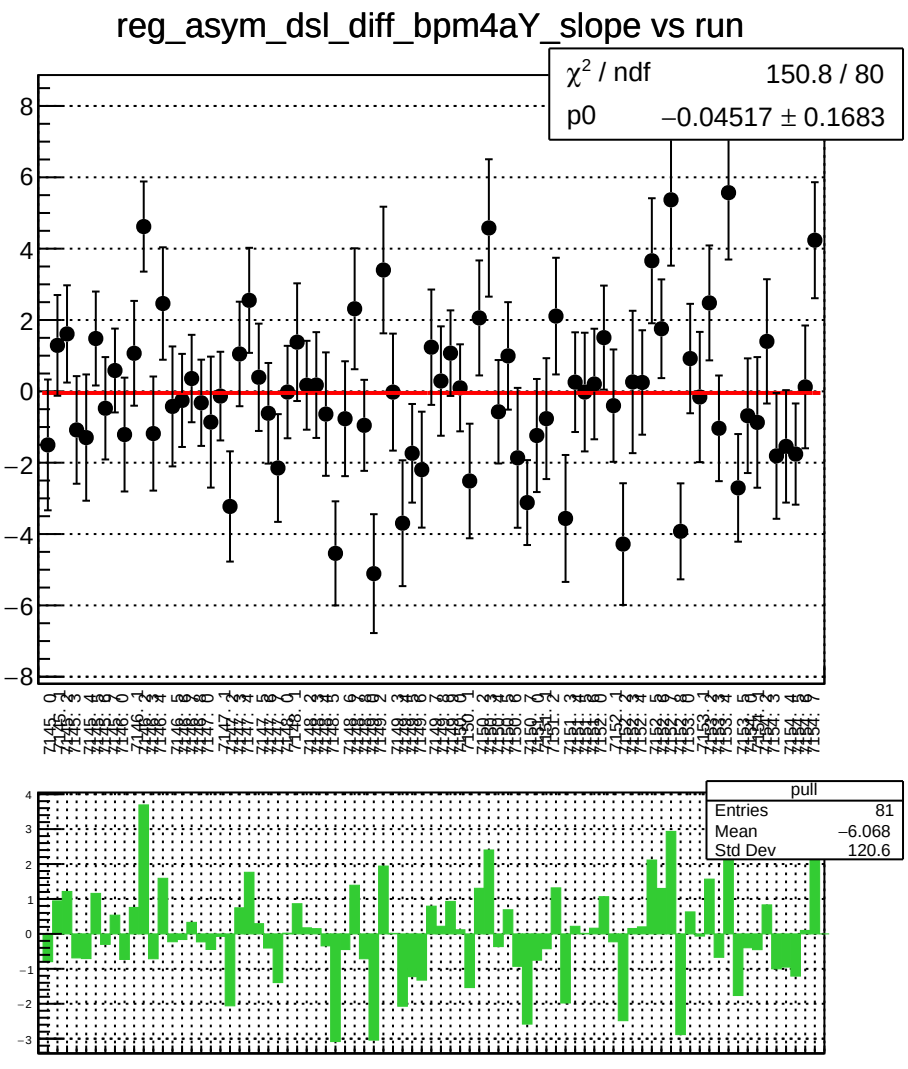

pull1D
Entries 81
Mean 0.02315
Std Dev 0.7208

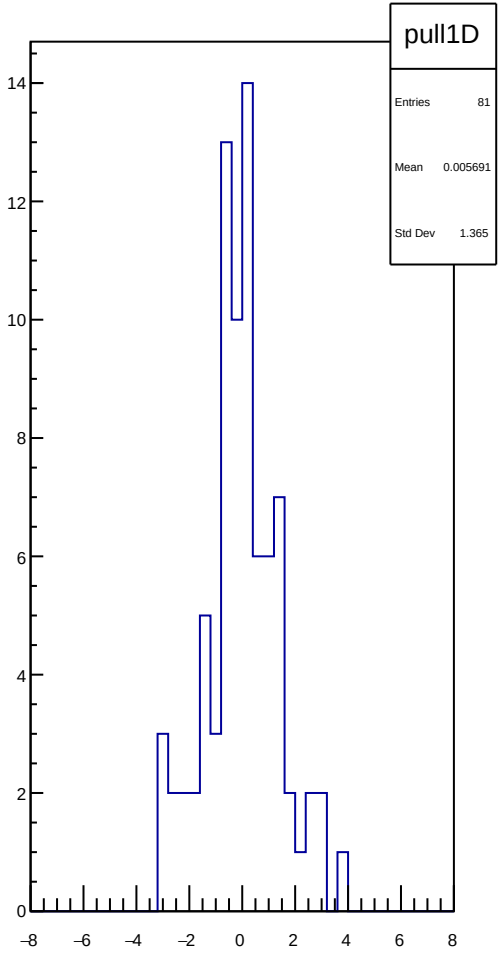

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 50.76 / 80
p0 −38.06 ± 0.07295
pull
Entries 81
Mean −538.9
Std Dev 555.5

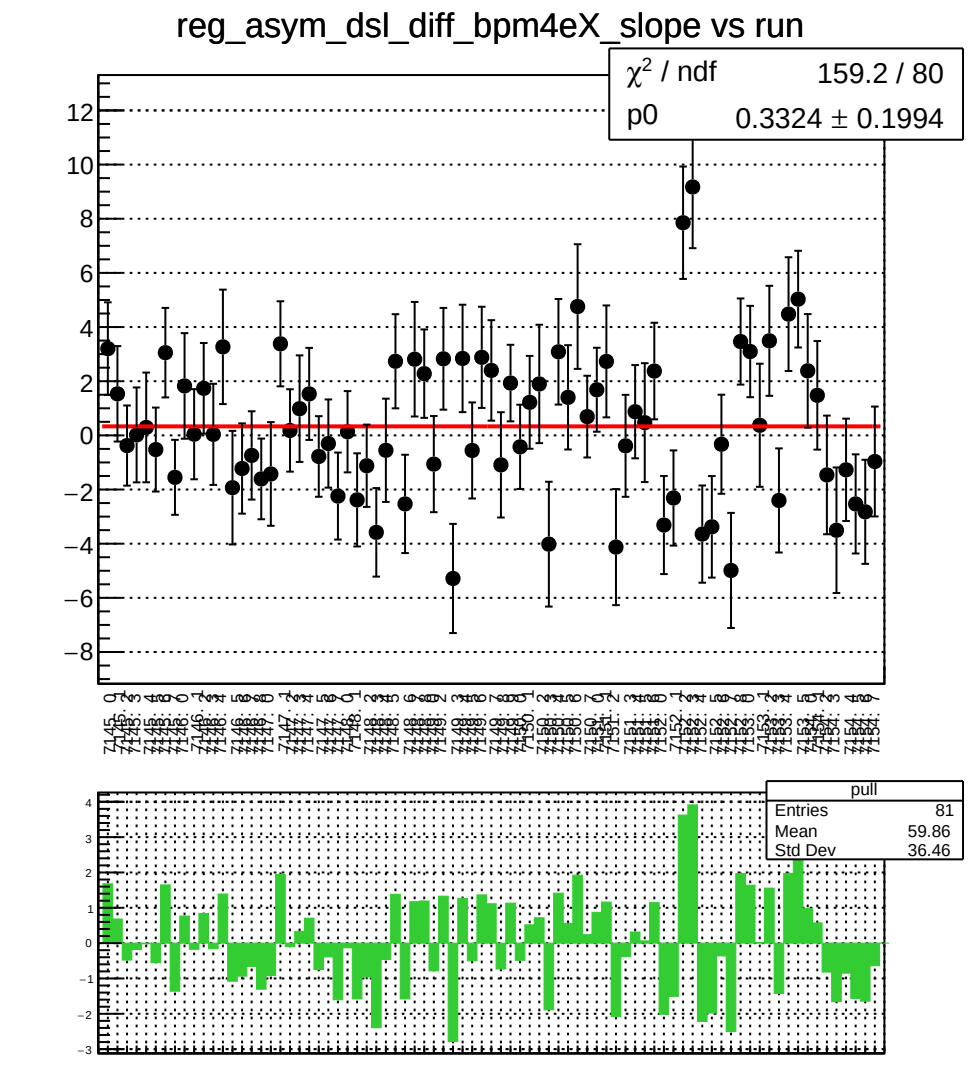

pull1D
Entries 81
Mean −0.00475
Std Dev 0.7916

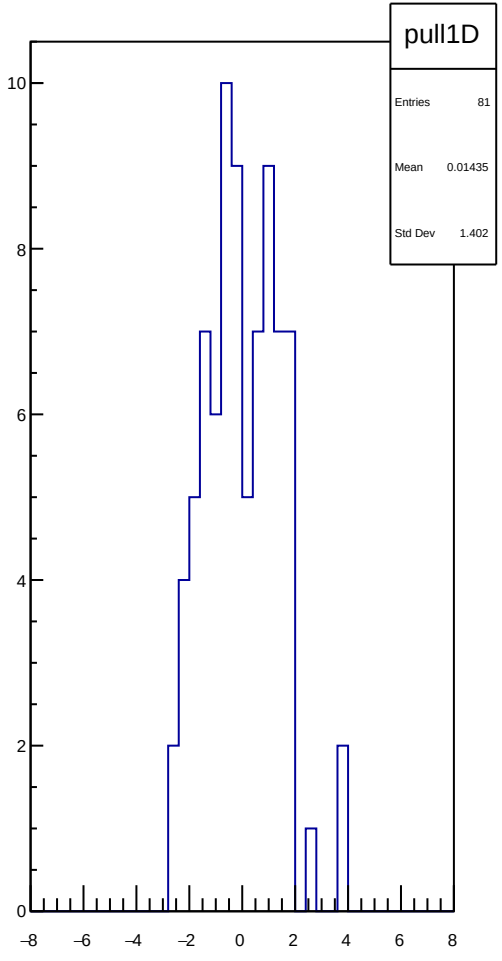

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 197.9 / 80
p0 −0.3077 ± 0.1949
pull
Entries 81
Mean 124.4
Std Dev 91.05

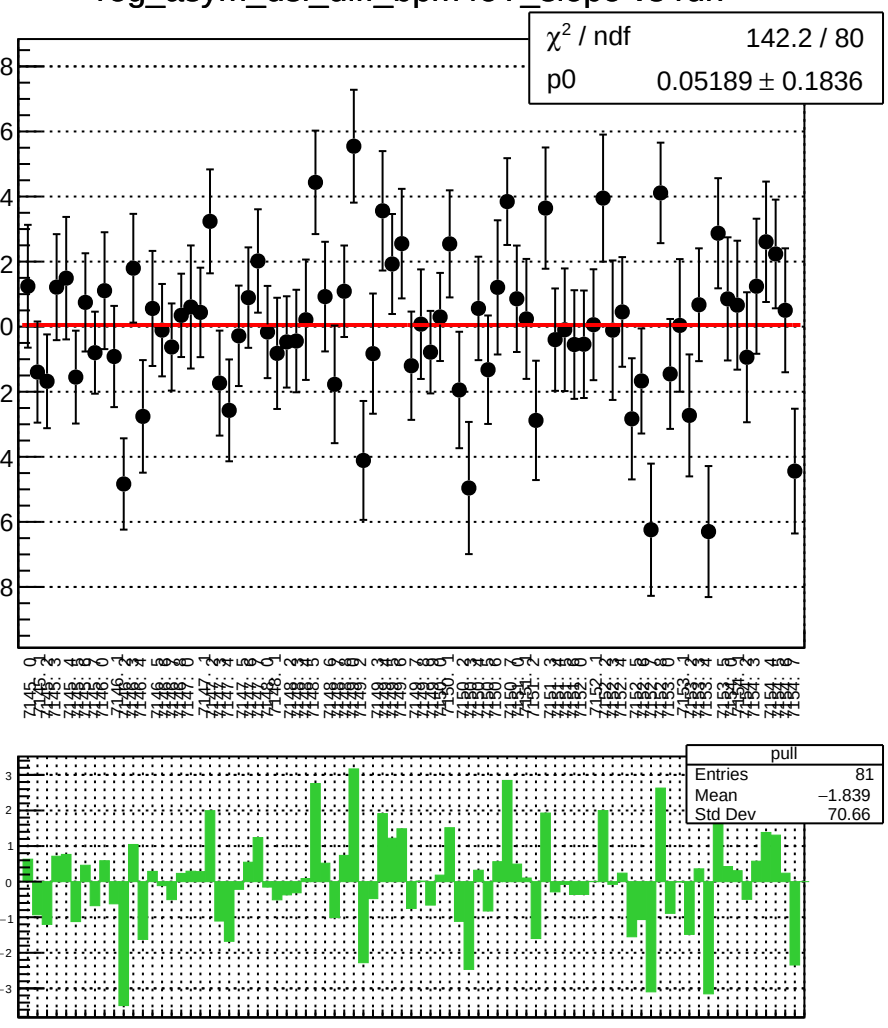

pull1D
Entries 81
Mean −0.01267
Std Dev 1.563

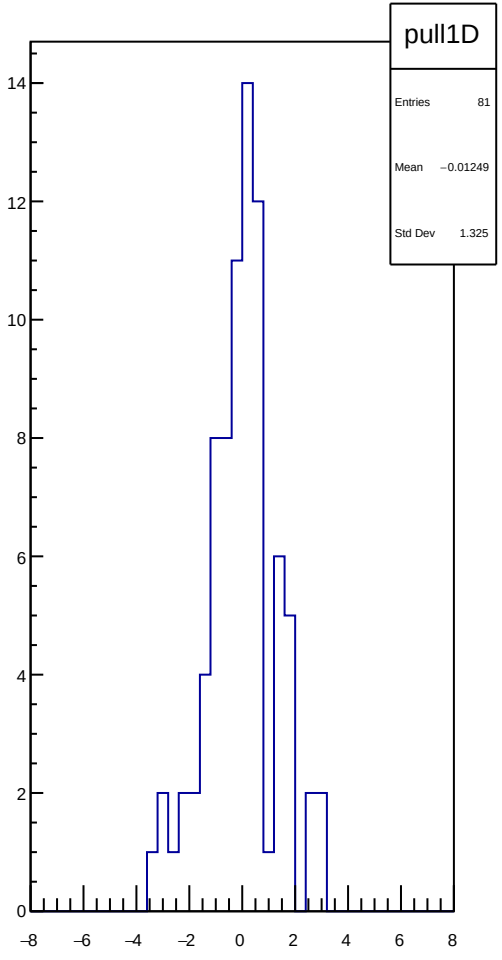

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 150.8 / 80
p0 −0.04517 ± 0.1683
pull
Entries 81
Mean −6.068
Std Dev 120.6

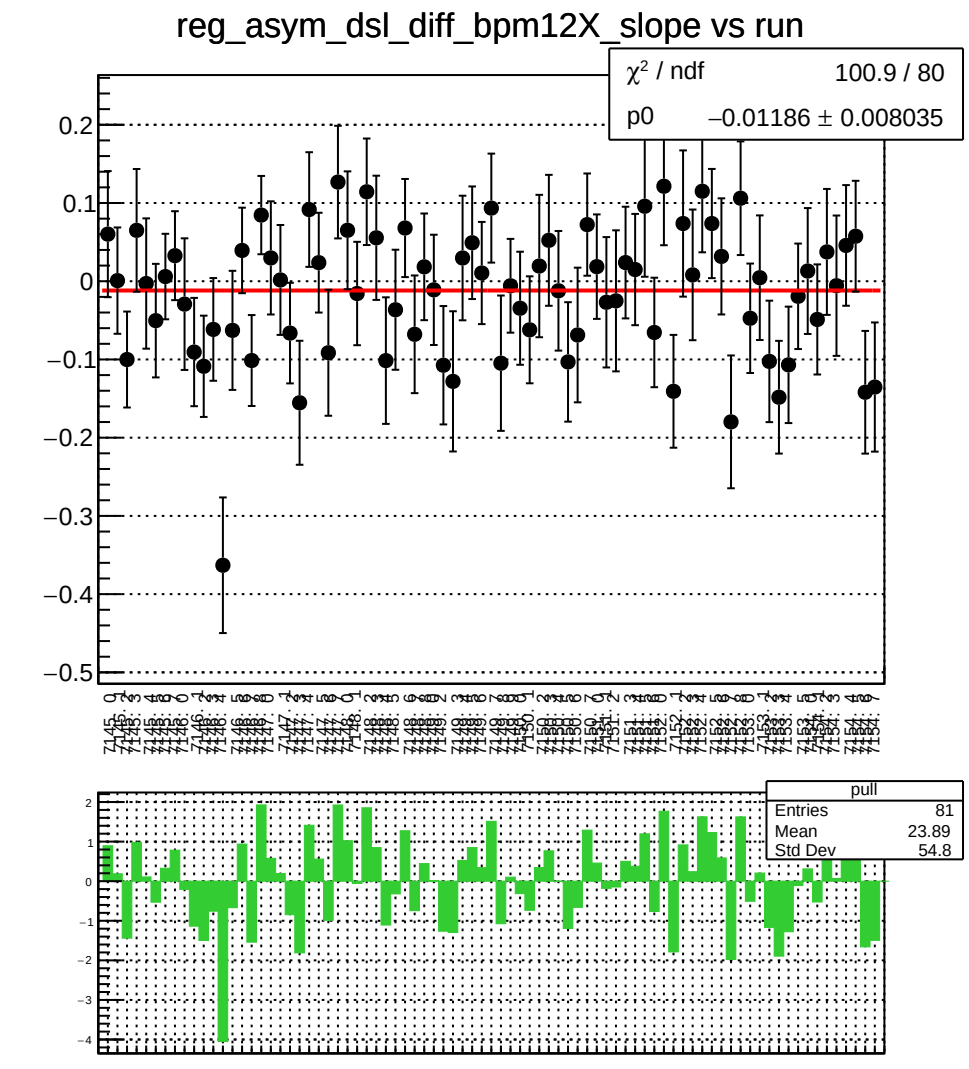

pull1D
Entries 81
Mean 0.005691
Std Dev 1.365

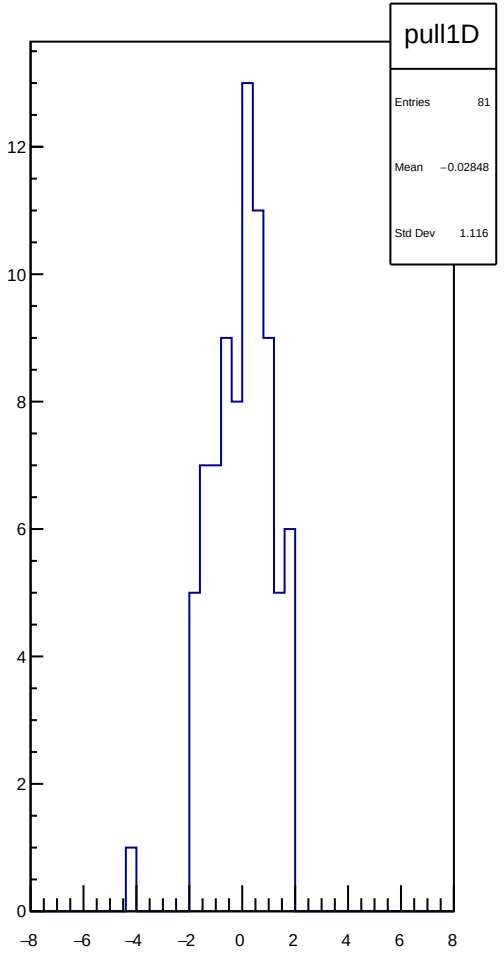

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 159.2 / 80
p0 0.3324 ± 0.1994
pull
Entries 81
Mean 59.86
Std Dev 36.46

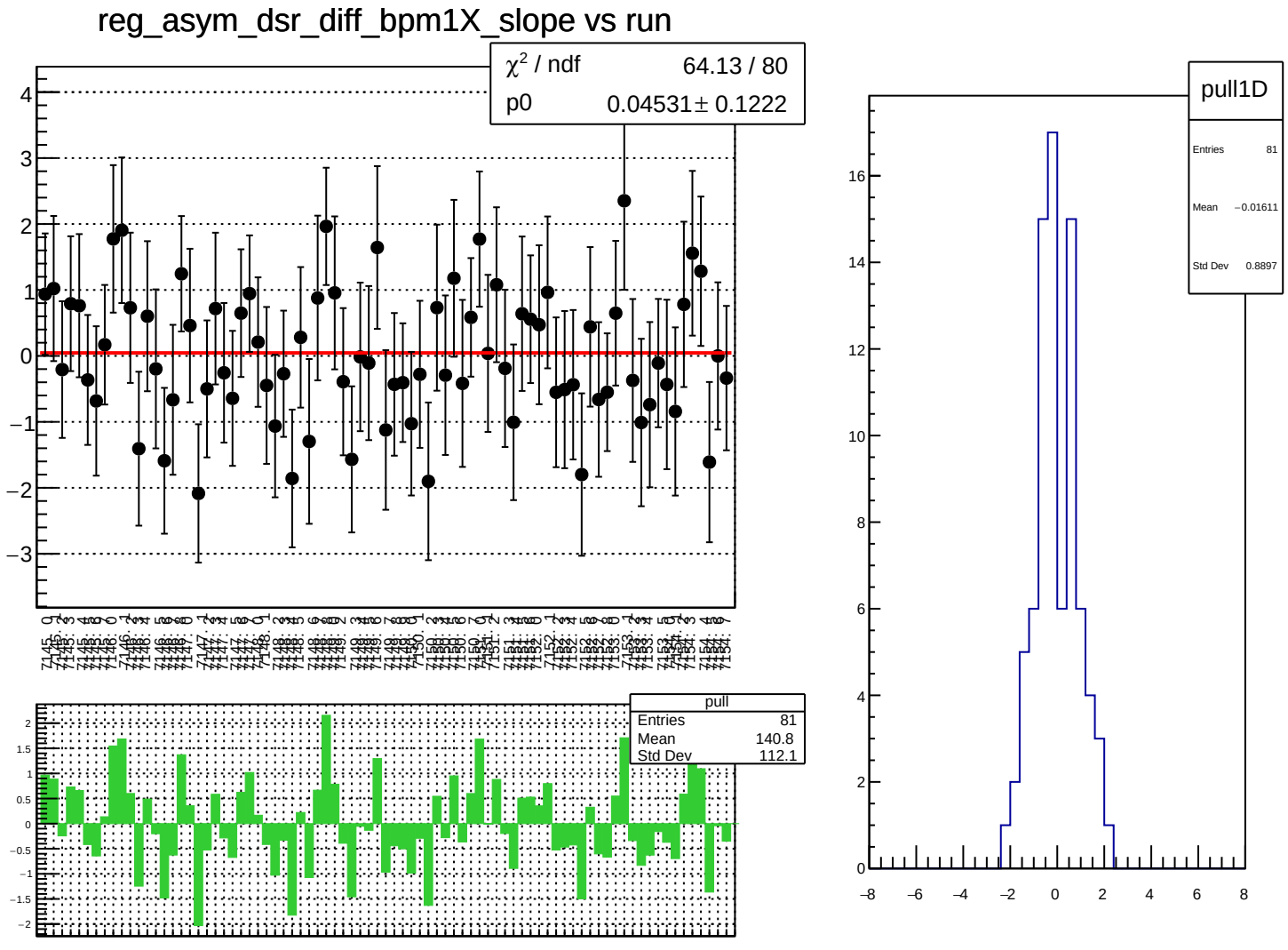

pull1D
Entries 81
Mean 0.01435
Std Dev 1.402

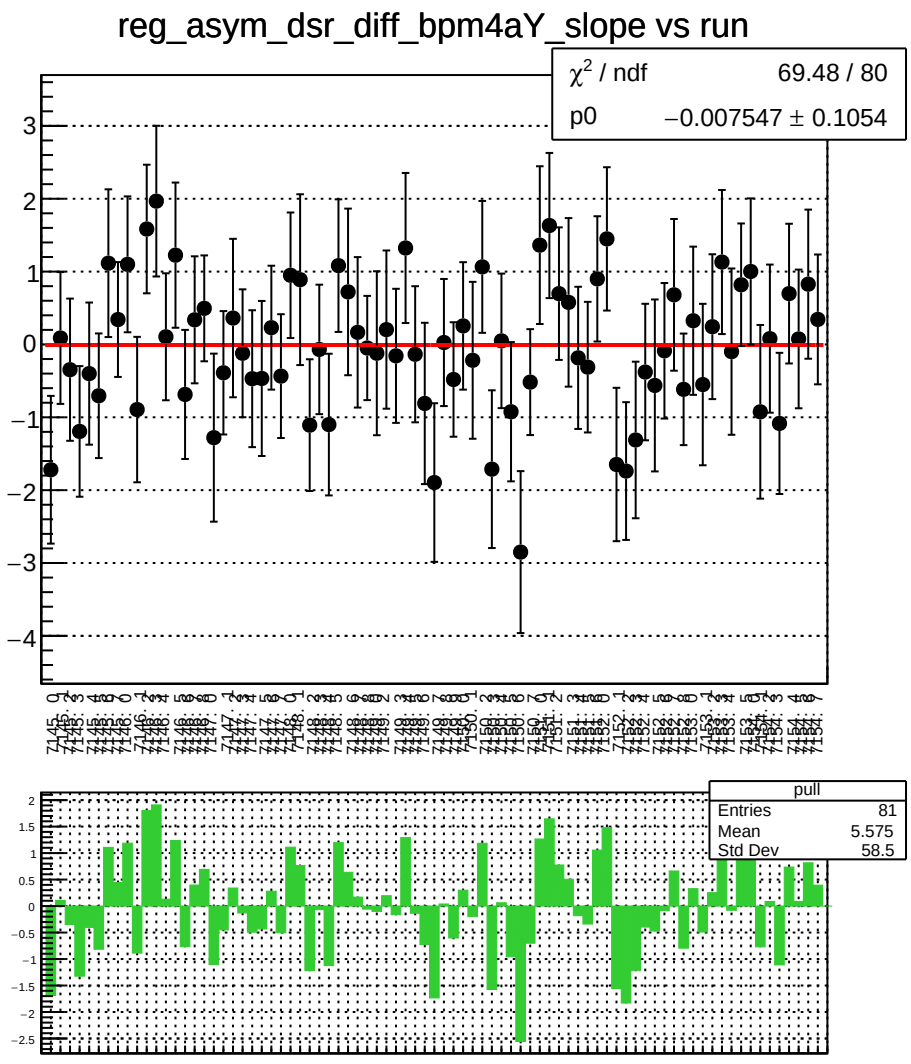

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 142.2 / 80
p0 0.05189 ± 0.1836
pull
Entries 81
Mean −1.839
Std Dev 70.66

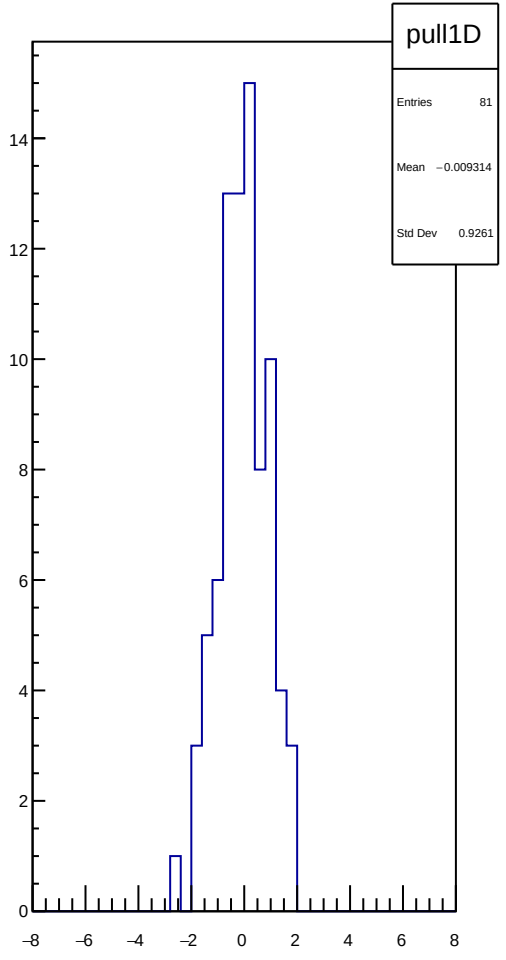

pull1D
Entries 81
Mean −0.01249
Std Dev 1.325

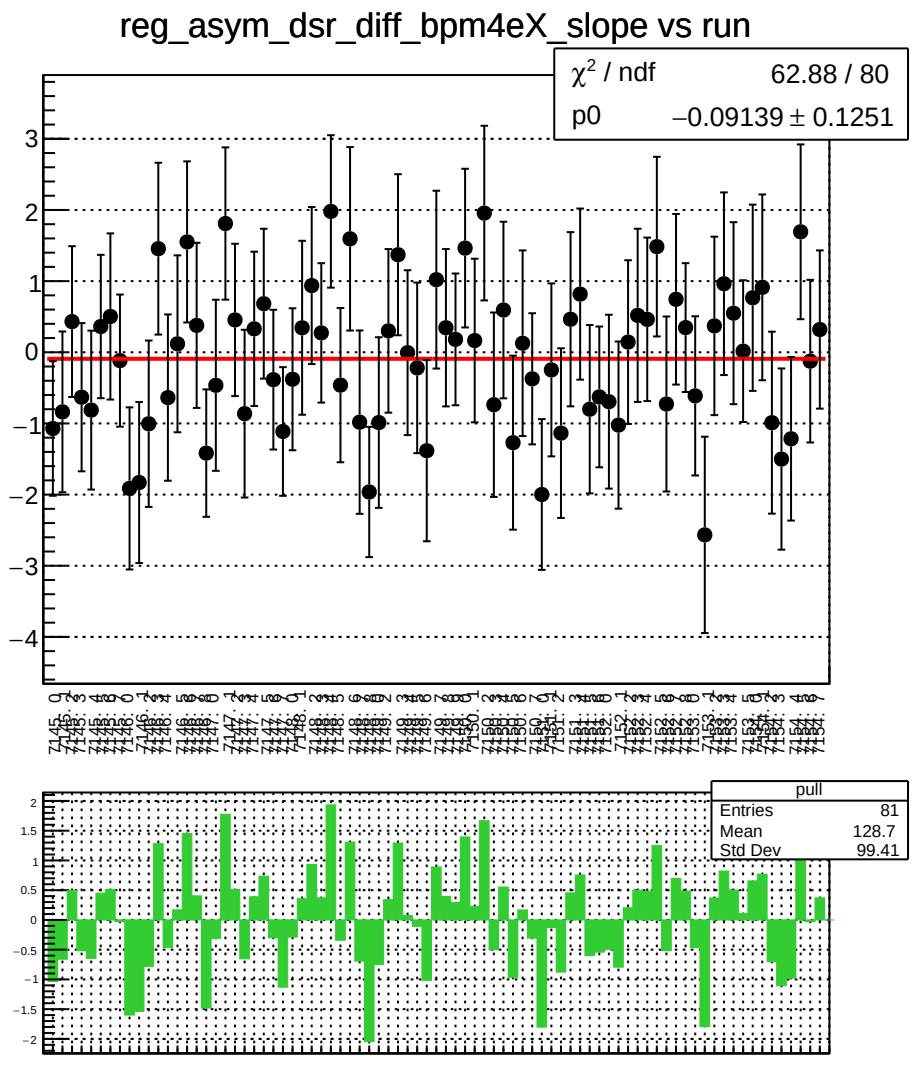

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 100.9 / 80
p0 −0.01186 ± 0.008035
pull
Entries 81
Mean 23.89
Std Dev 54.8

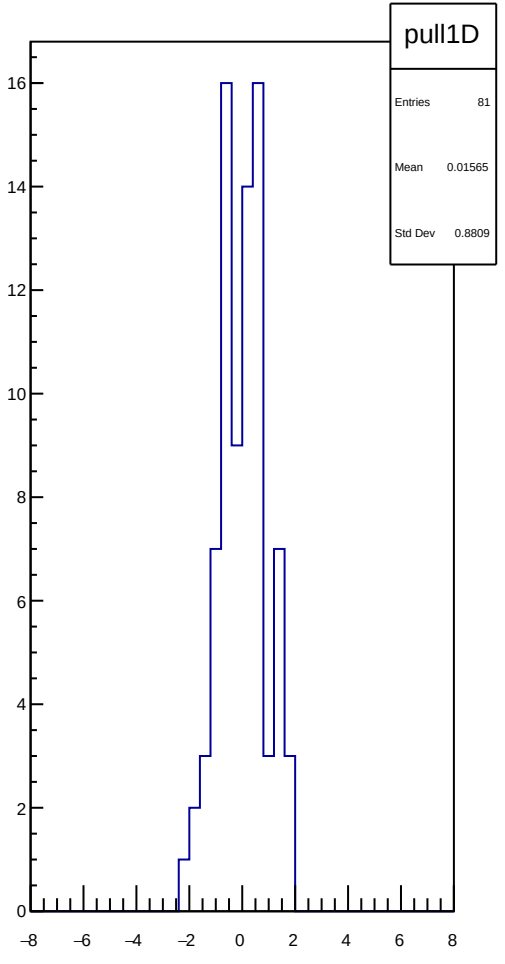

pull1D
Entries 81
Mean −0.02848
Std Dev 1.116

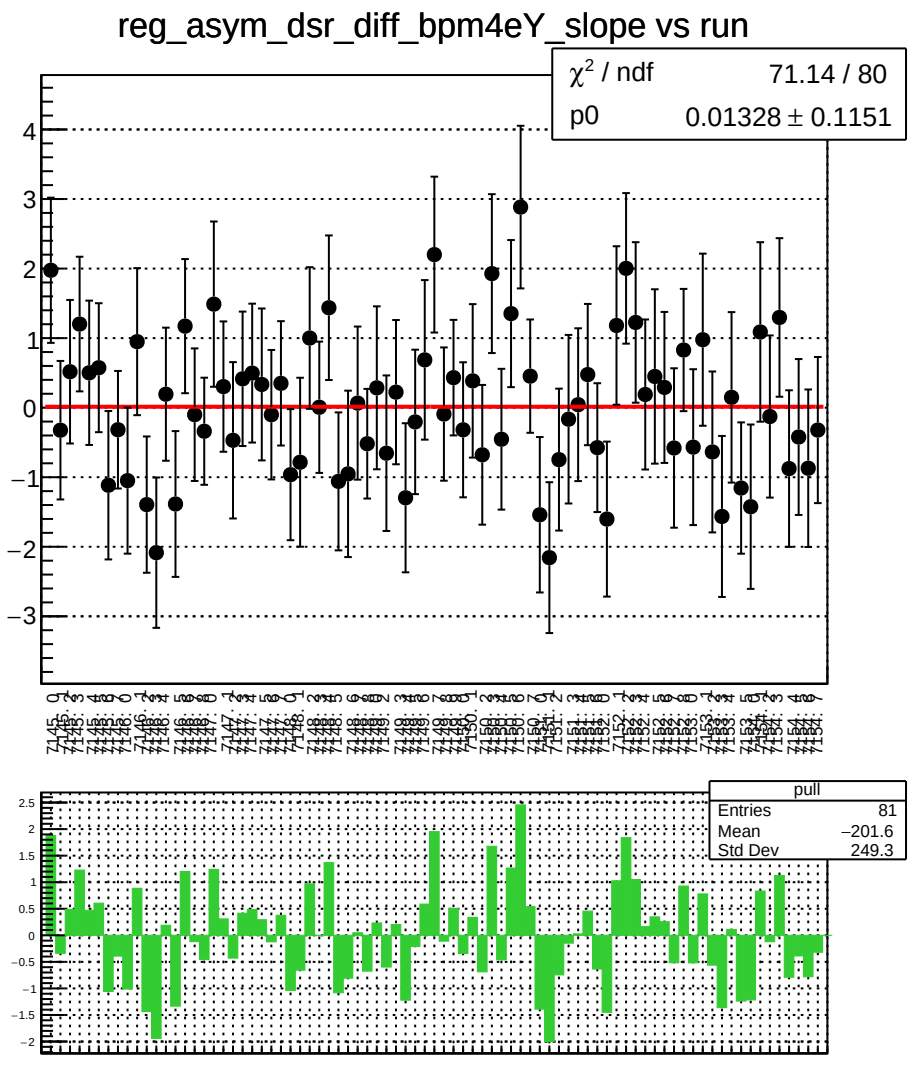

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 64.13 / 80
p0 0.04531± 0.1222
pull
Entries 81
Mean 140.8
Std Dev 112.1
pull1D
Entries 81
Mean −0.01611
Std Dev 0.8897

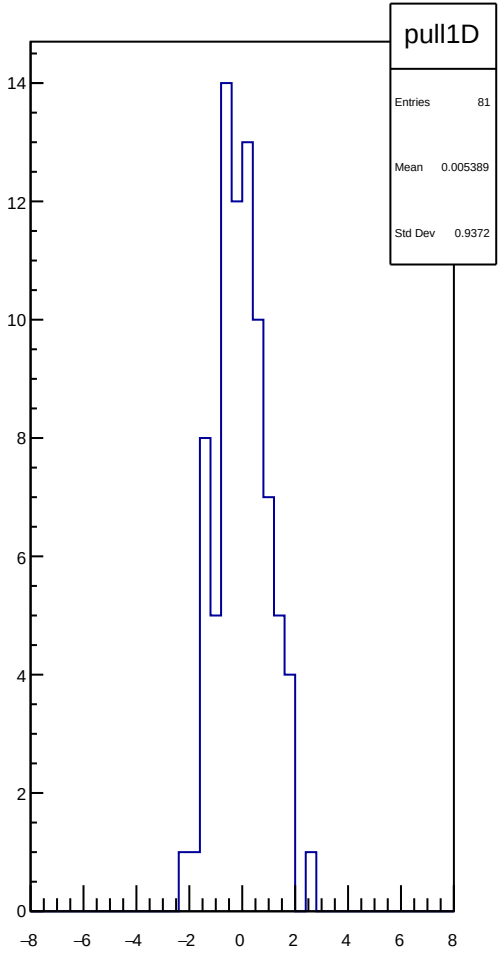

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 69.48 / 80
p0 −0.007547 ± 0.1054
pull
Entries 81
Mean 5.575
Std Dev 58.5

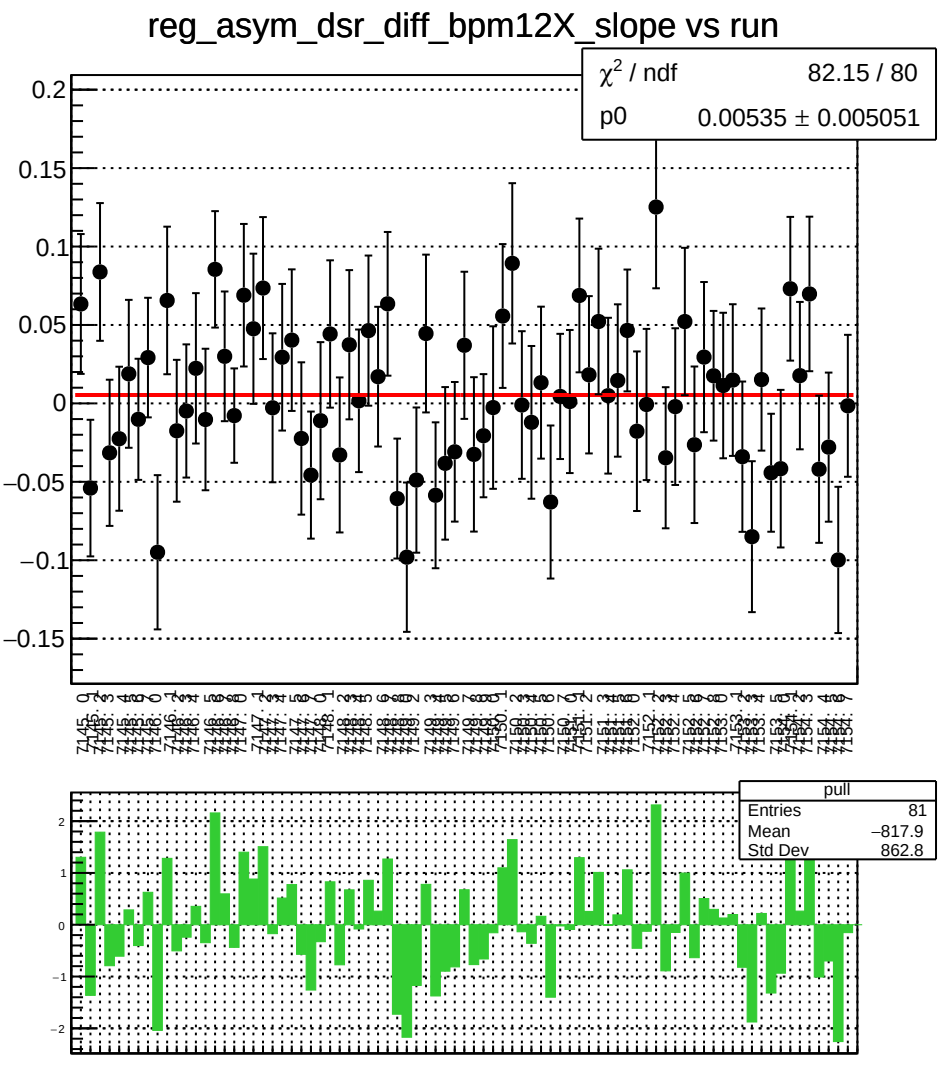

pull1D
Entries 81
Mean −0.009314
Std Dev 0.9261

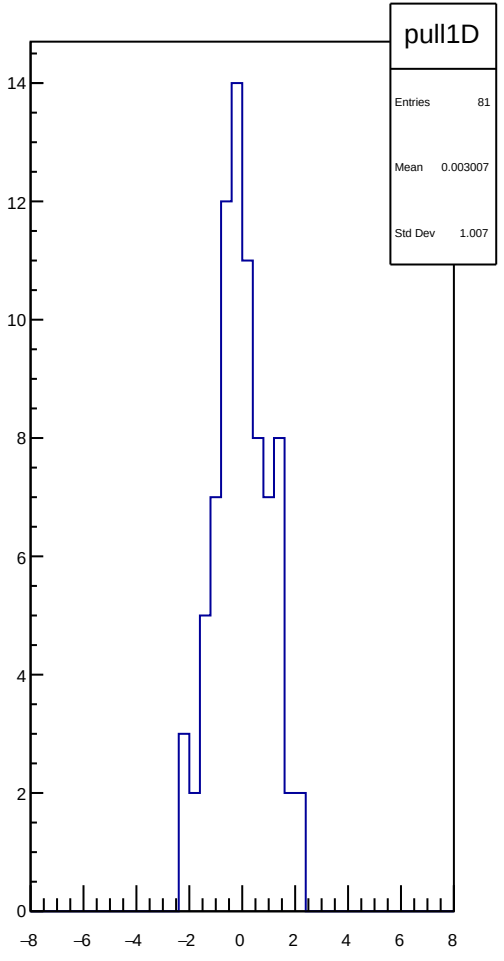

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 62.88 / 80
p0 −0.09139 ± 0.1251
pull
Entries 81
Mean 128.7
Std Dev 99.41

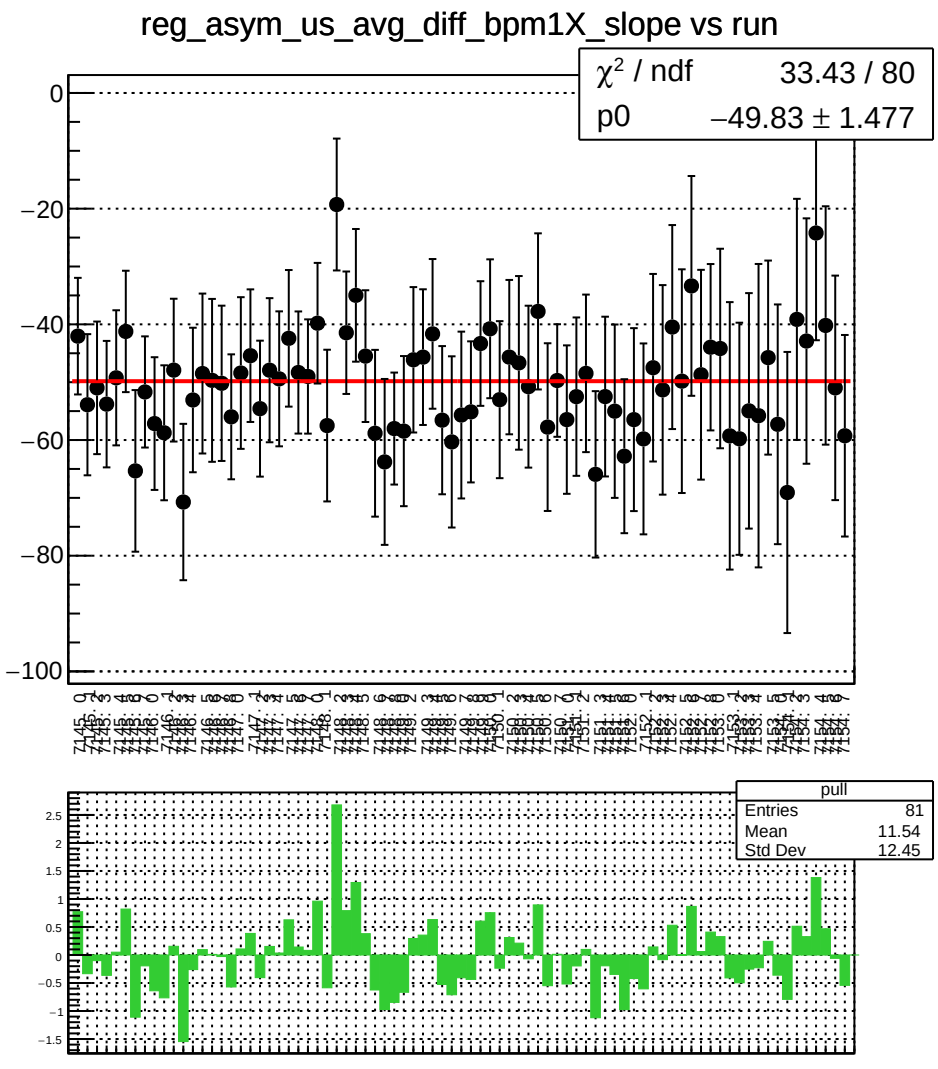

pull1D
Entries 81
Mean 0.01565
Std Dev 0.8809

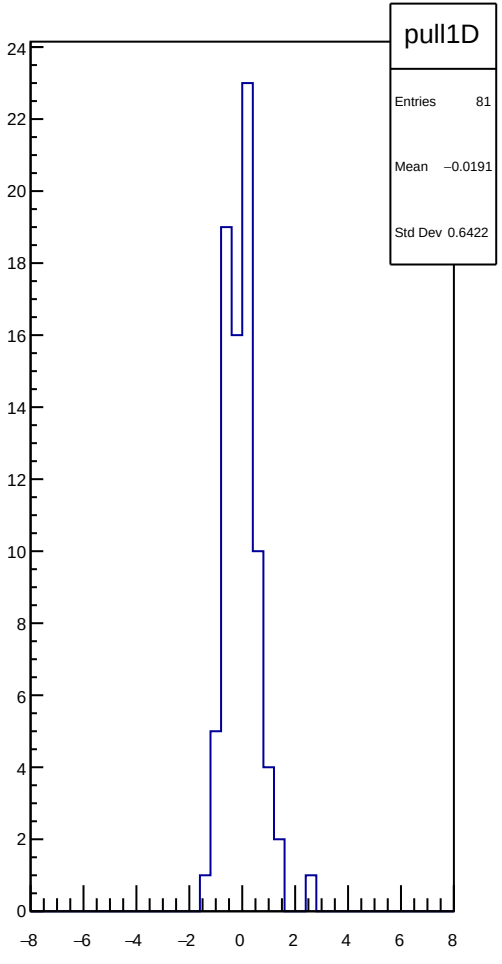

reg_asym_dsr_diff_bpm4eY_slope vs run
χ^2 / ndf 71.14 / 80
p0 0.01328 ± 0.1151
pull
Entries 81
Mean −201.6
Std Dev 249.3

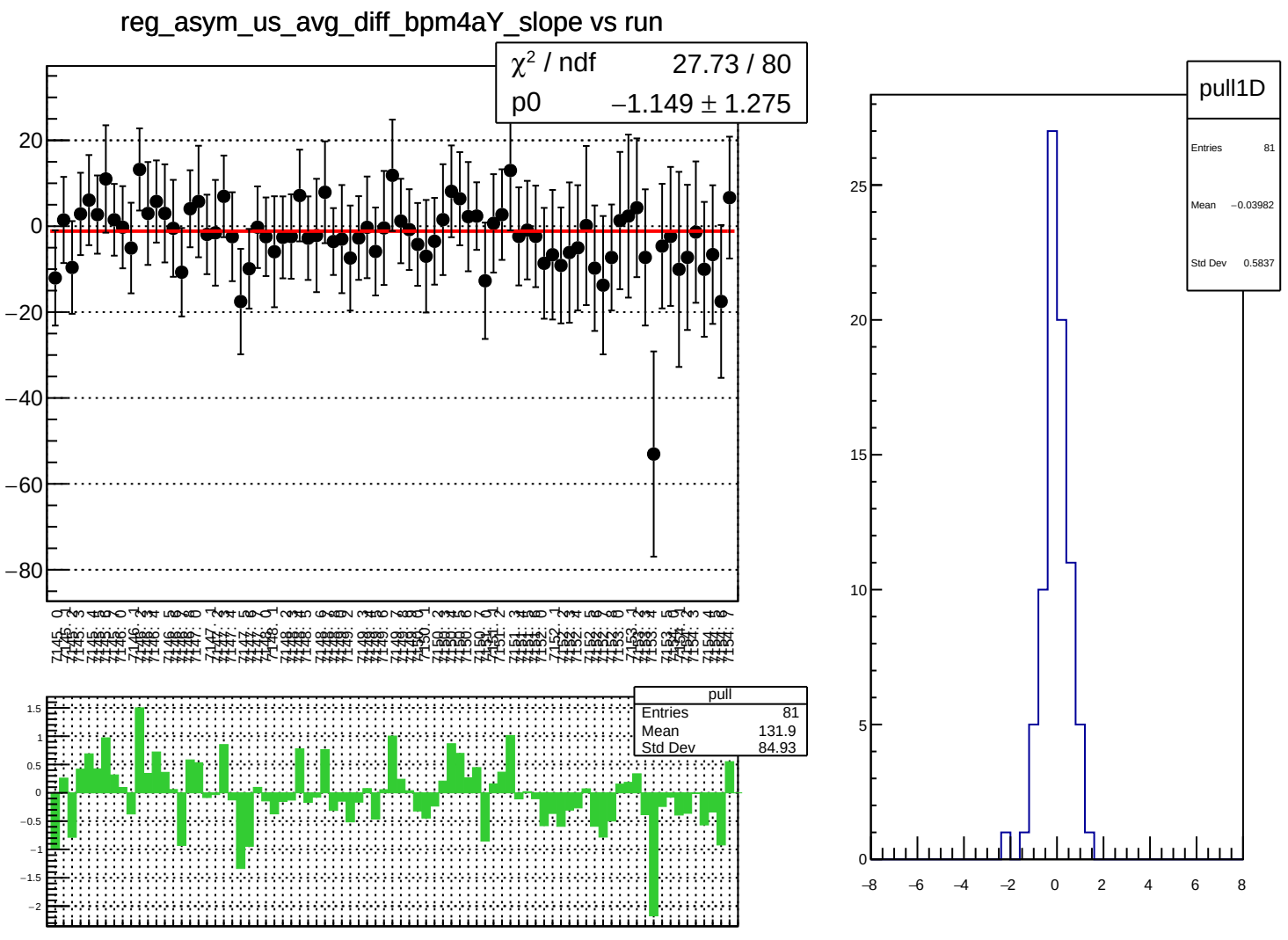

pull1D
Entries 81
Mean 0.005389
Std Dev 0.9372

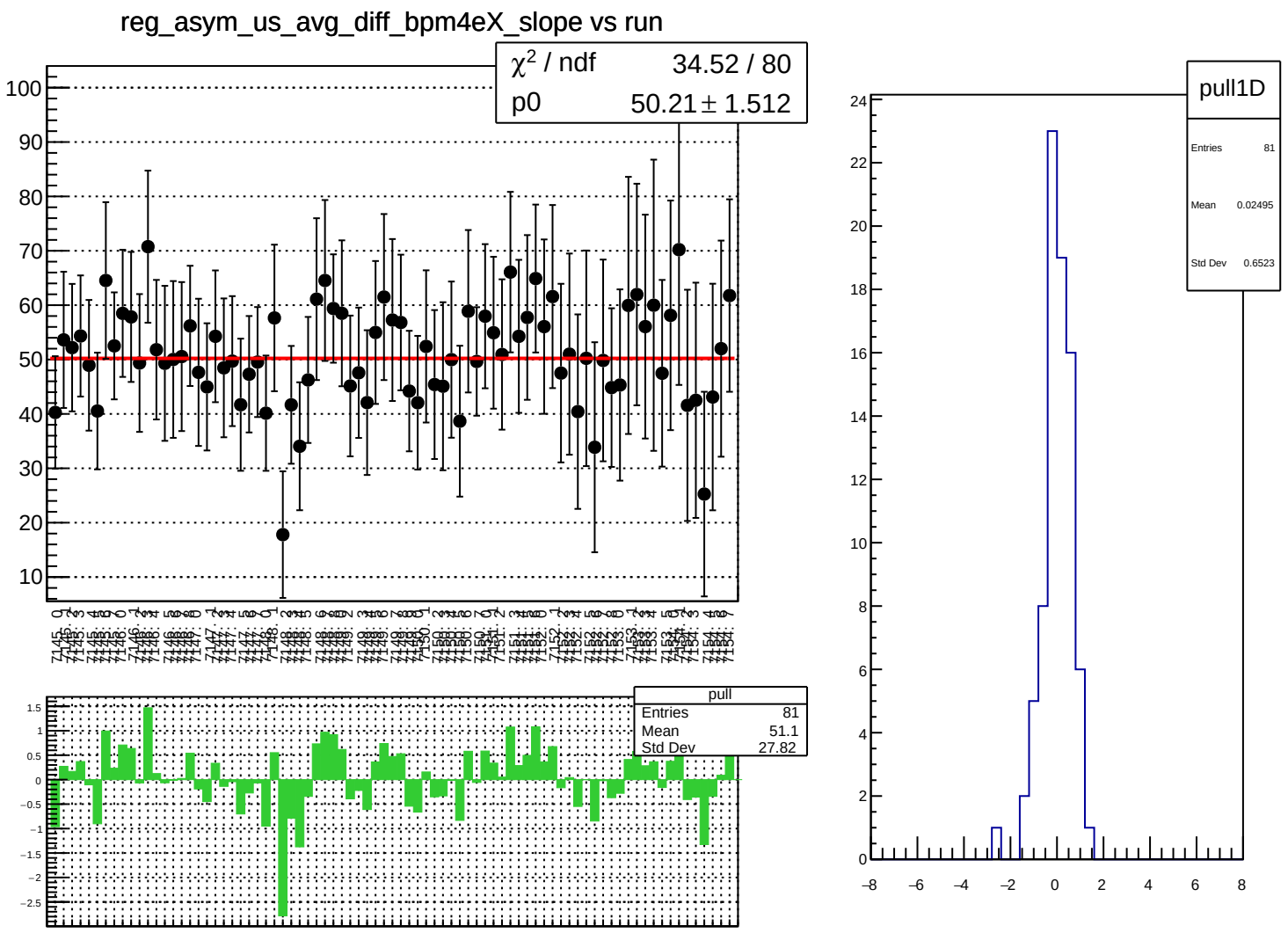

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 82.15 / 80
p0 0.00535 ± 0.005051
pull
Entries 81
Mean −817.9
Std Dev 862.8

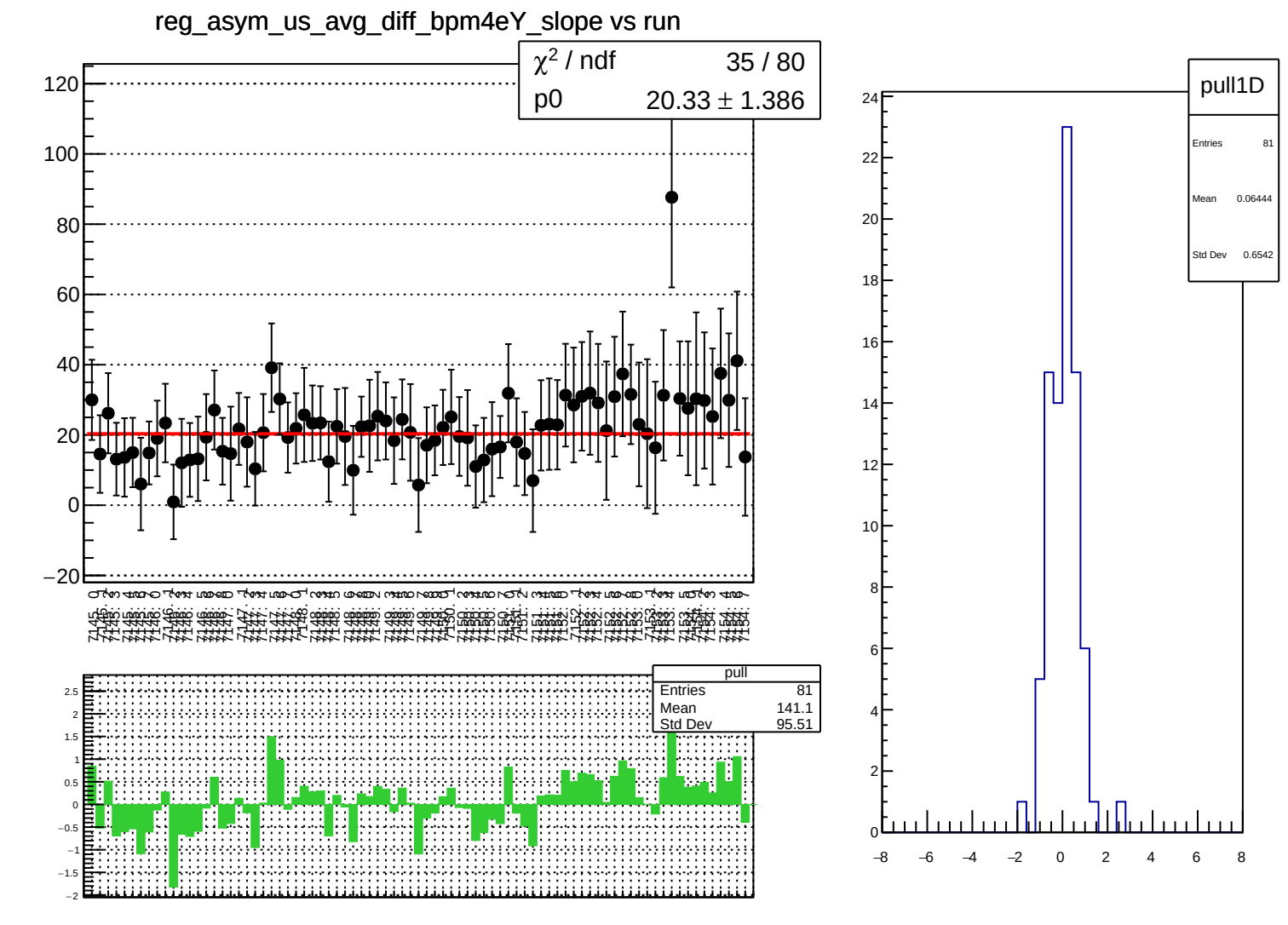

pull1D
Entries 81
Mean 0.003007
Std Dev 1.007

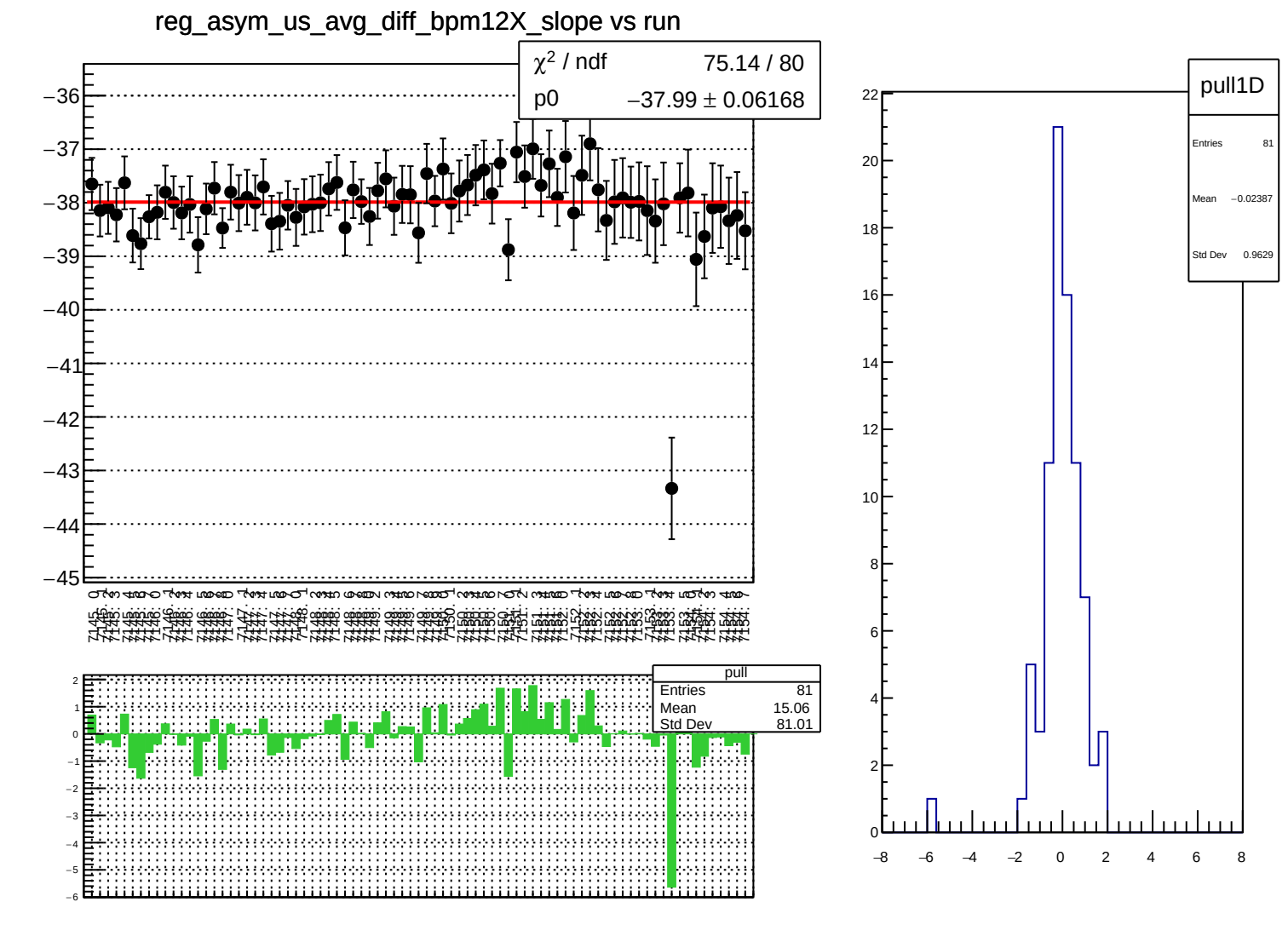

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 33.43 / 80
p0 −49.83 ± 1.477
pull
Entries 81
Mean 11.54
Std Dev 12.45

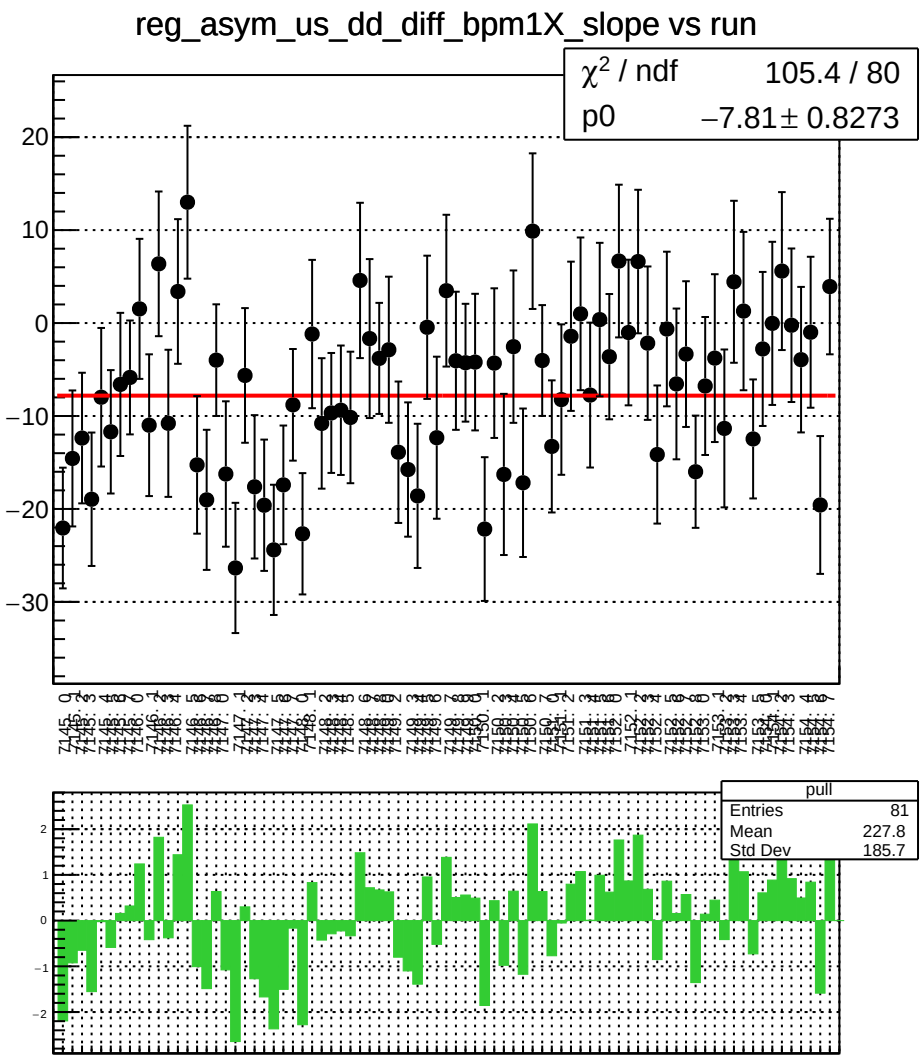

pull1D
Entries 81
Mean −0.0191
Std Dev 0.6422

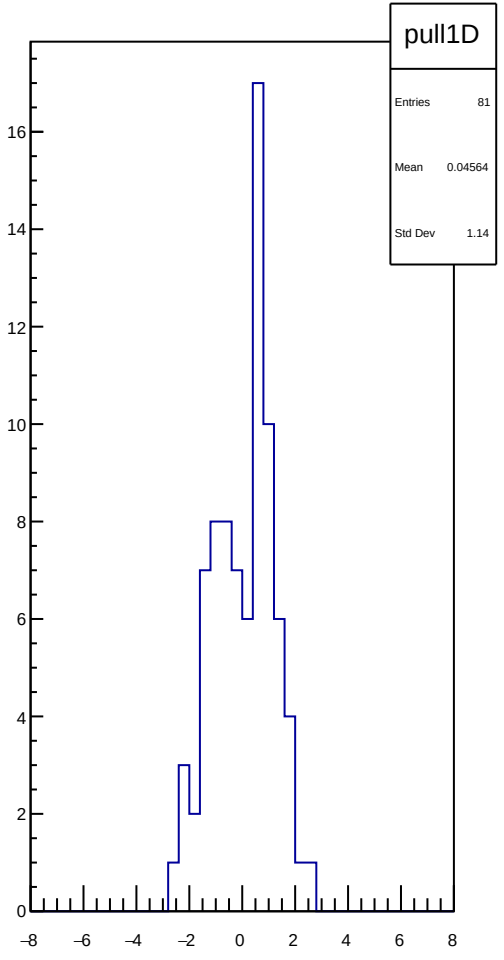

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.73 / 80
p0 −1.149 ± 1.275
pull
Entries 81
Mean 131.9
Std Dev 84.93
pull1D
Entries 81
Mean −0.03982
Std Dev 0.5837

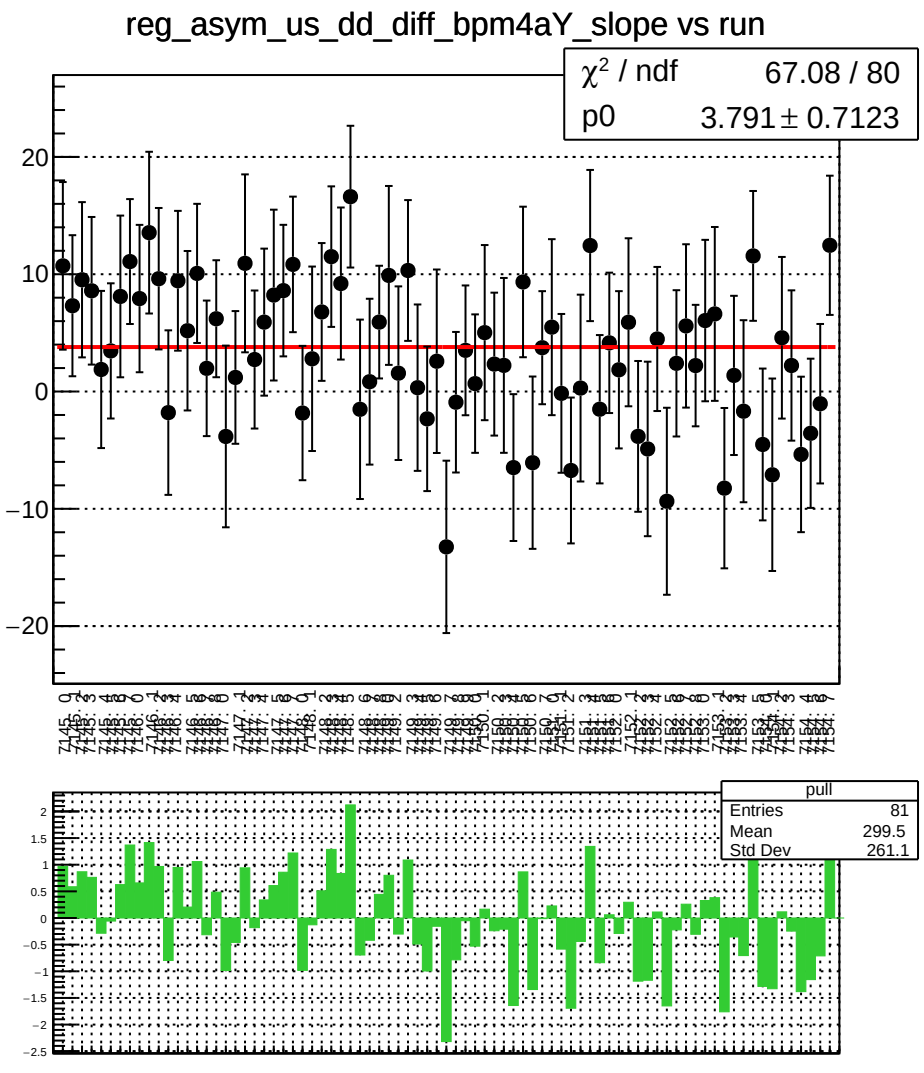

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.52 / 80
p0 50.21 ± 1.512
pull
Entries 81
Mean 51.1
Std Dev 27.82
pull1D
Entries 81
Mean 0.02495
Std Dev 0.6523

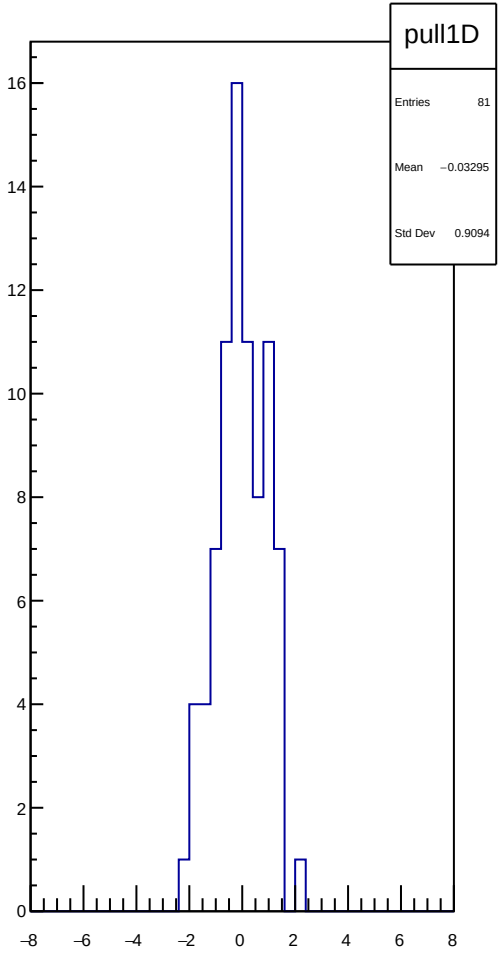

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 35 / 80
p0 20.33 ± 1.386
pull
Entries 81
Mean 141.1
Std Dev 95.51
pull1D
Entries 81
Mean 0.06444
Std Dev 0.6542

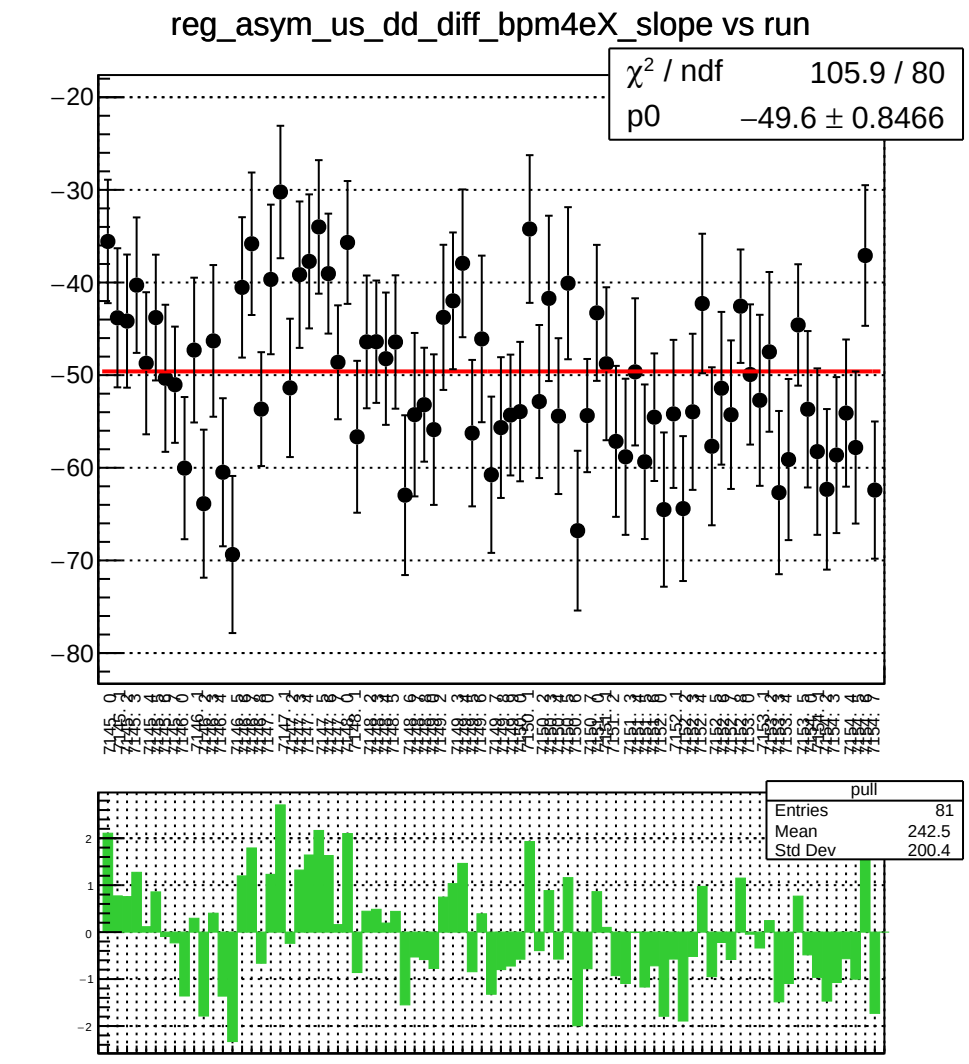

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 75.14 / 80
p0 −37.99 ± 0.06168
pull
Entries 81
Mean 15.06
Std Dev 81.01
pull1D
Entries 81
Mean −0.02387
Std Dev 0.9629

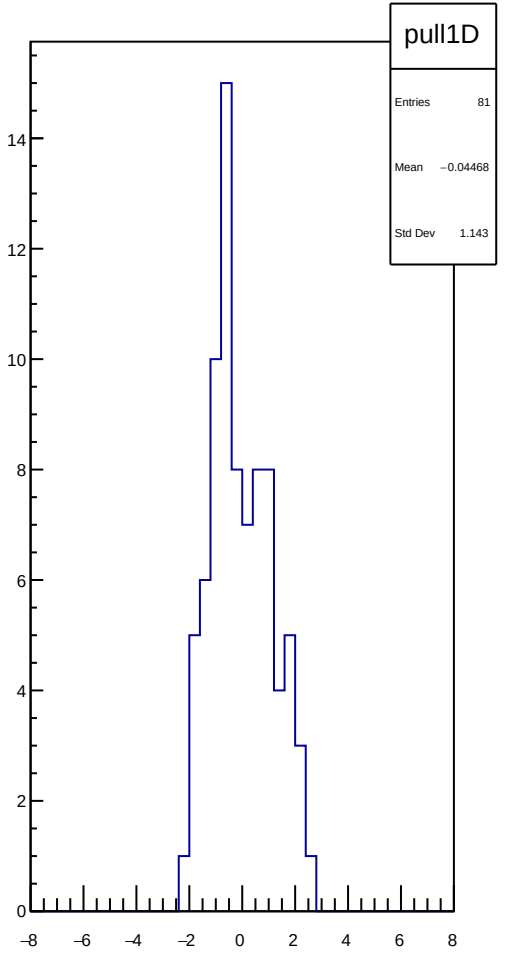

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 105.4 / 80
p0 −7.81 ± 0.8273
pull
Entries 81
Mean 227.8
Std Dev 185.7

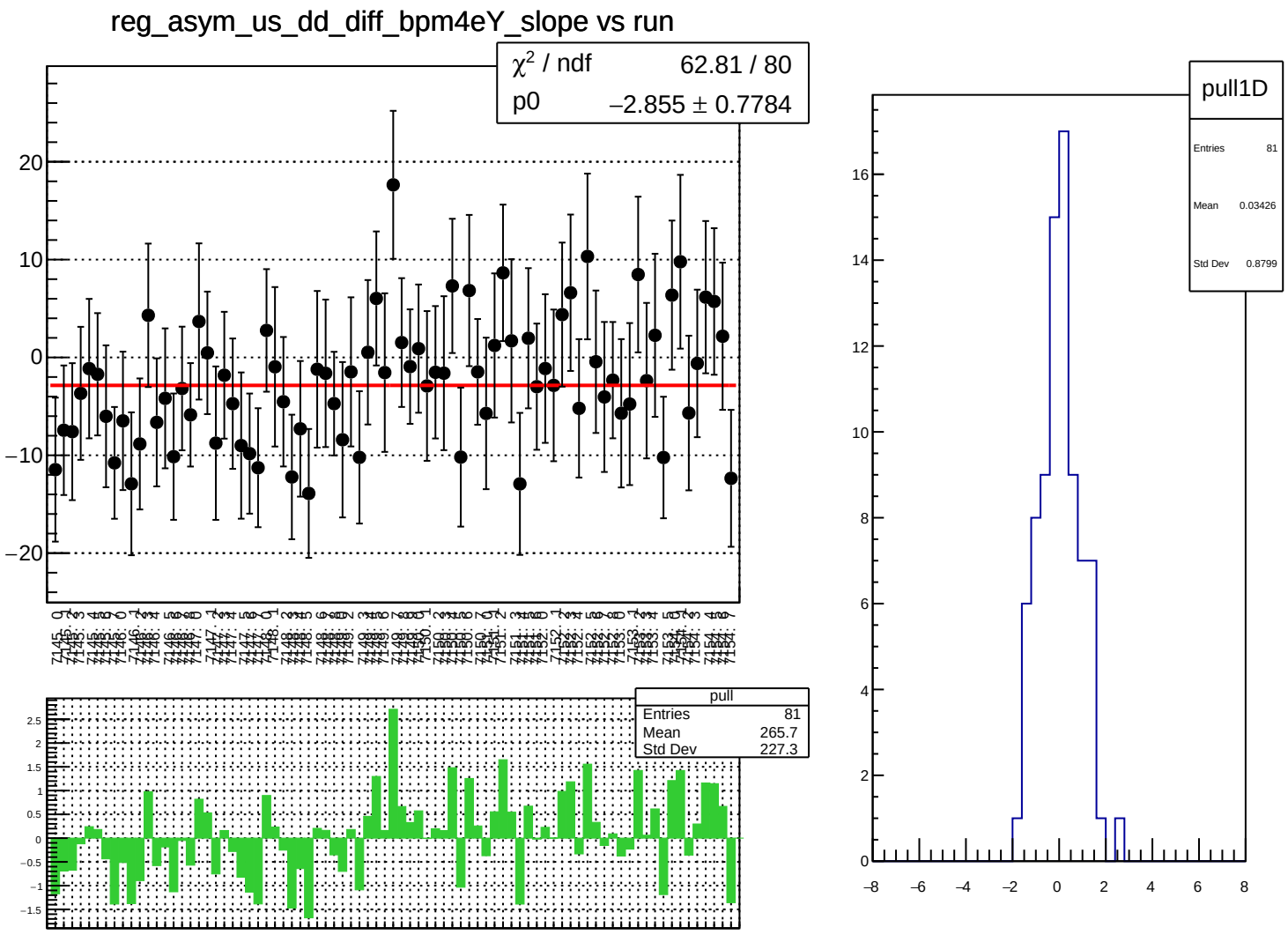

pull1D
Entries 81
Mean 0.04564
Std Dev 1.14

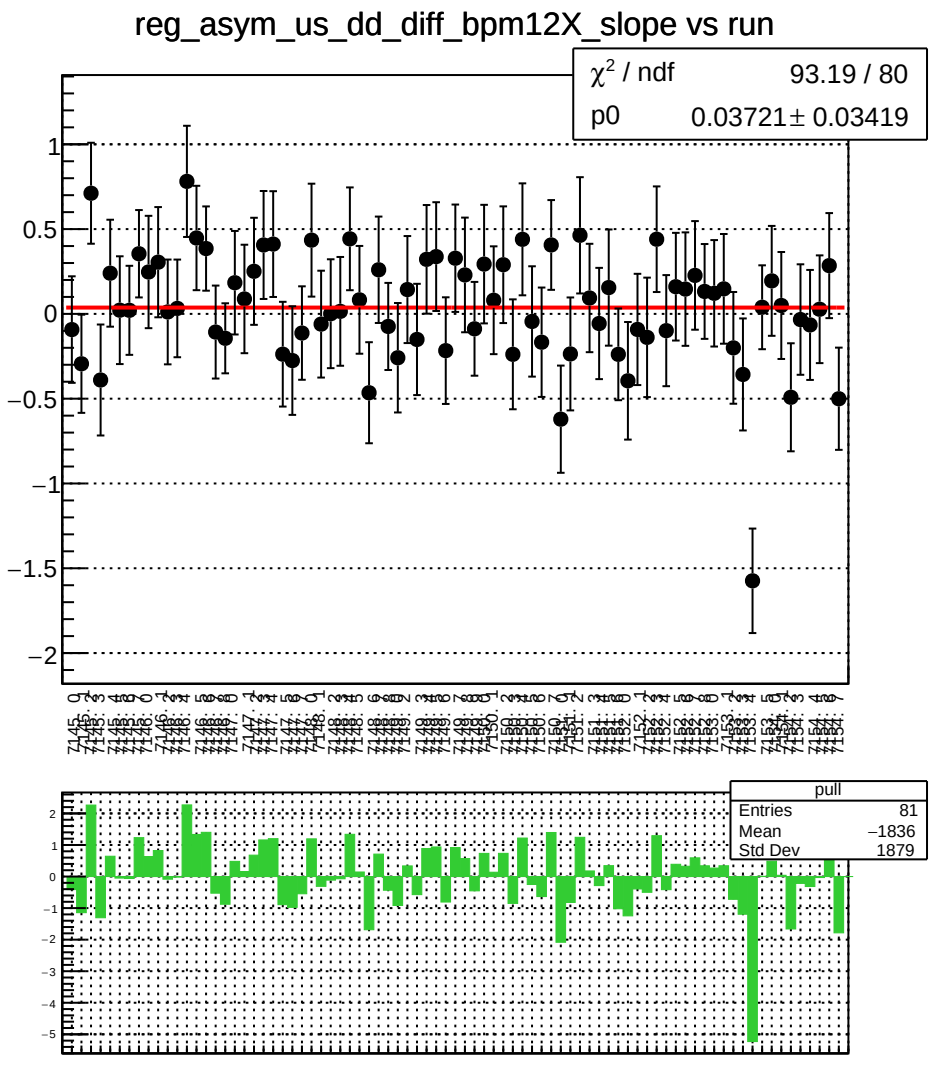

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.08 / 80
p0 3.791 ± 0.7123
pull
Entries 81
Mean 299.5
Std Dev 261.1

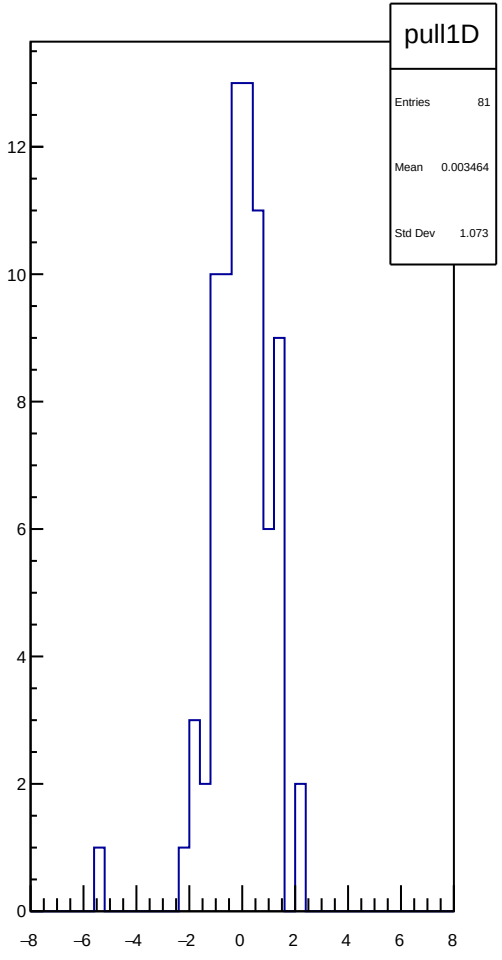

pull1D
Entries 81
Mean −0.03295
Std Dev 0.9094

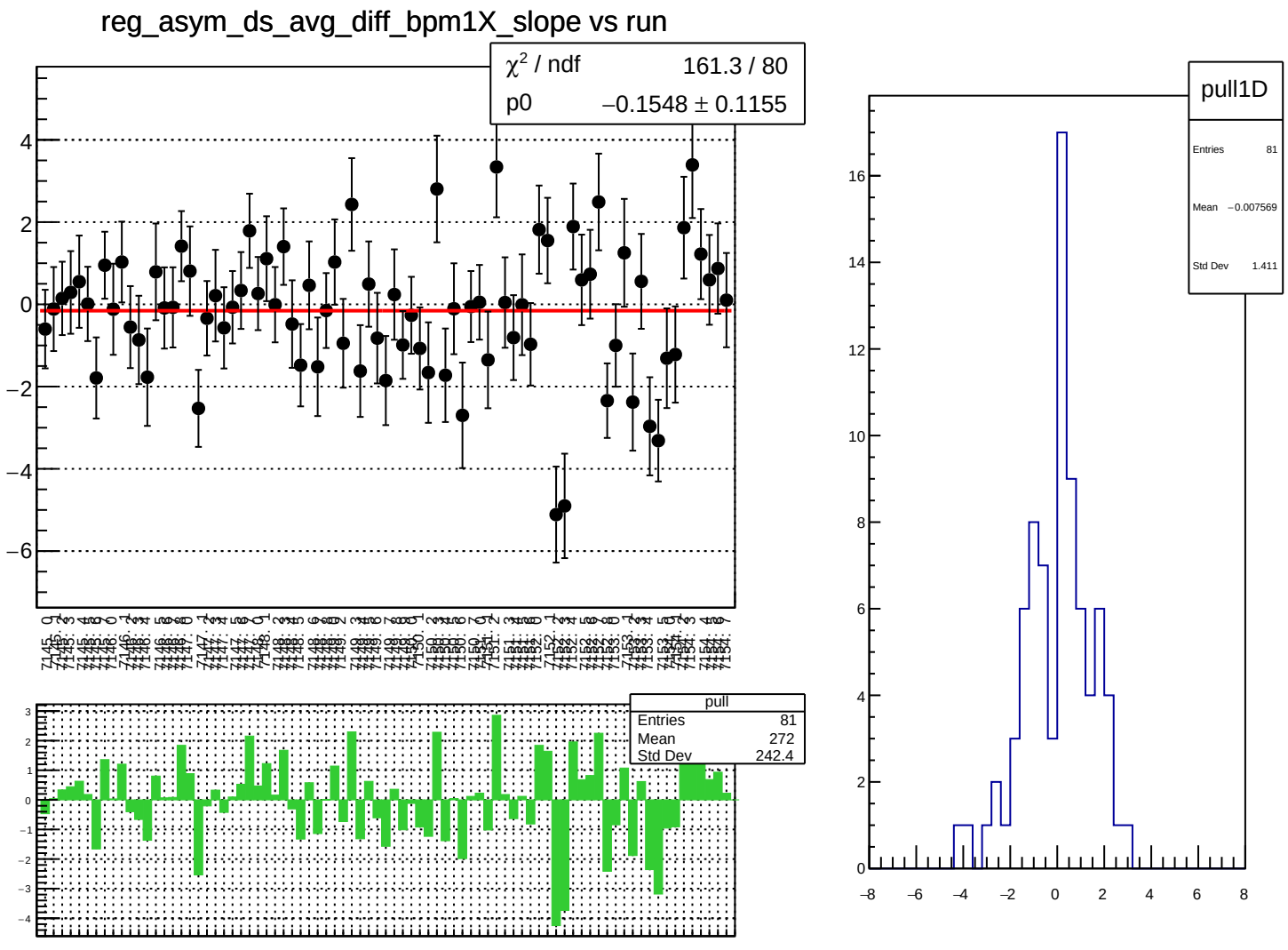

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 105.9 / 80
p0 −49.6 ± 0.8466
pull
Entries 81
Mean 242.5
Std Dev 200.4

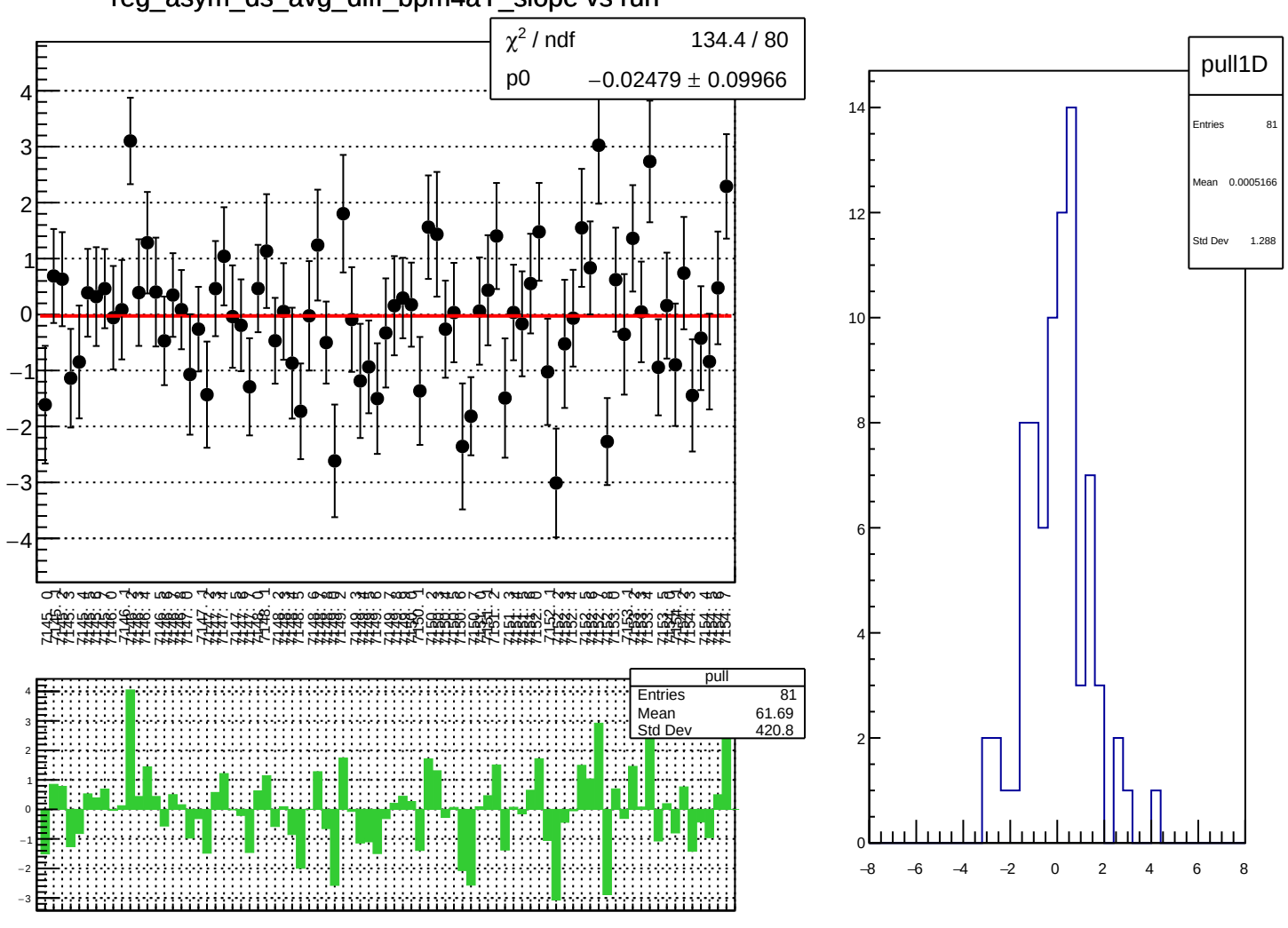

pull1D
Entries 81
Mean −0.04468
Std Dev 1.143

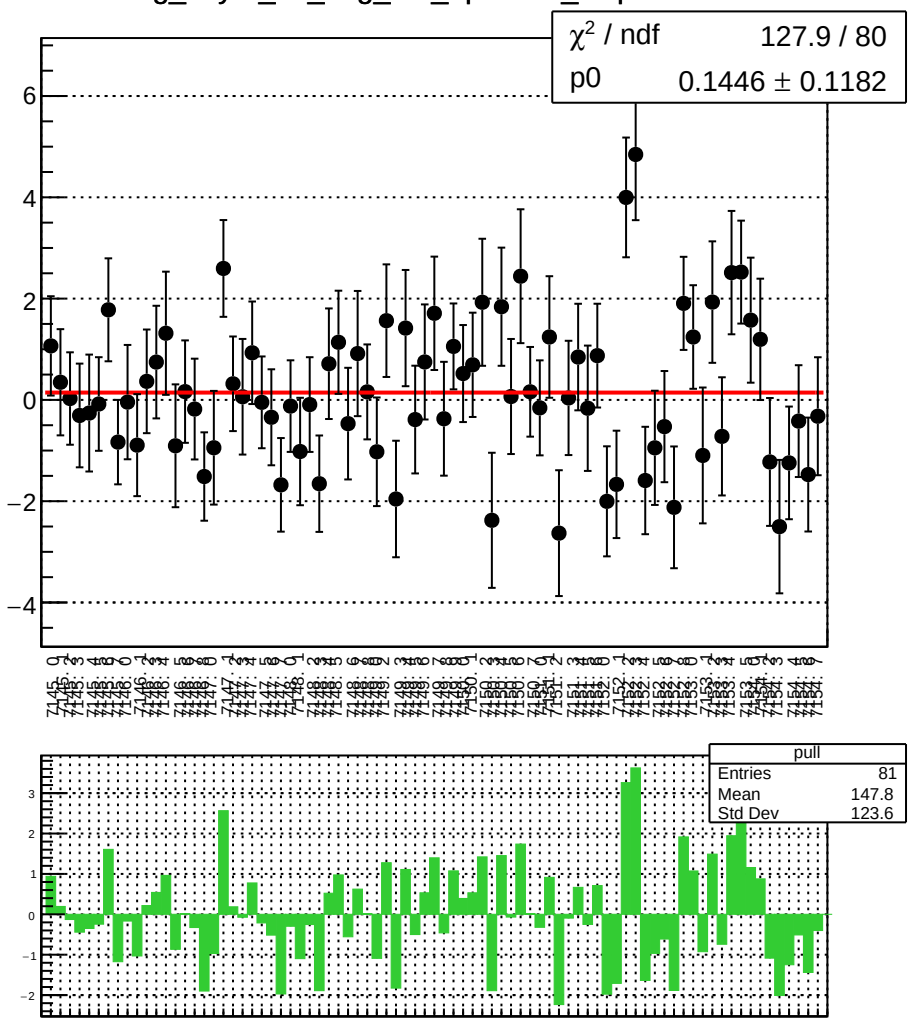

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.81 / 80
p0 −2.855 ± 0.7784
pull
Entries 81
Mean 265.7
Std Dev 227.3
pull1D
Entries 81
Mean 0.03426
Std Dev 0.8799

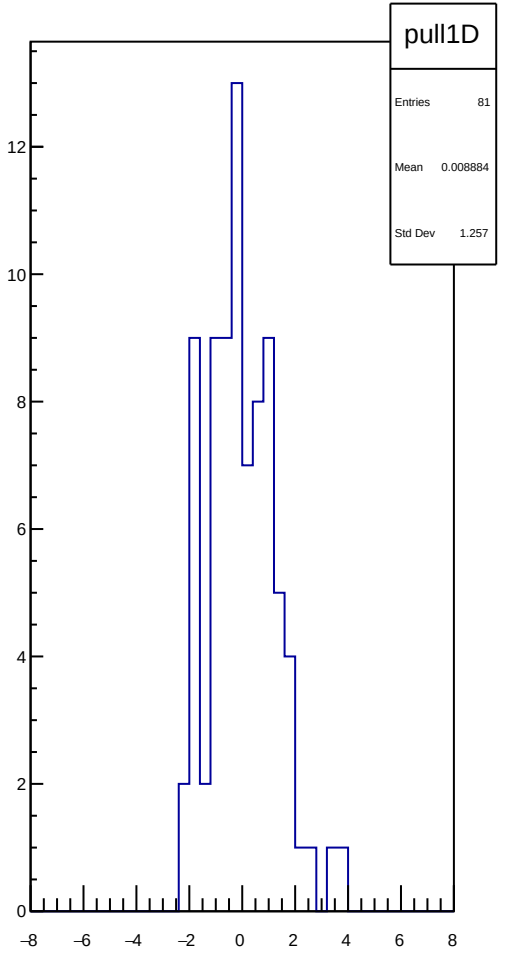

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 93.19 / 80
p0 0.03721 ± 0.03419
pull
Entries 81
Mean −1836
Std Dev 1879

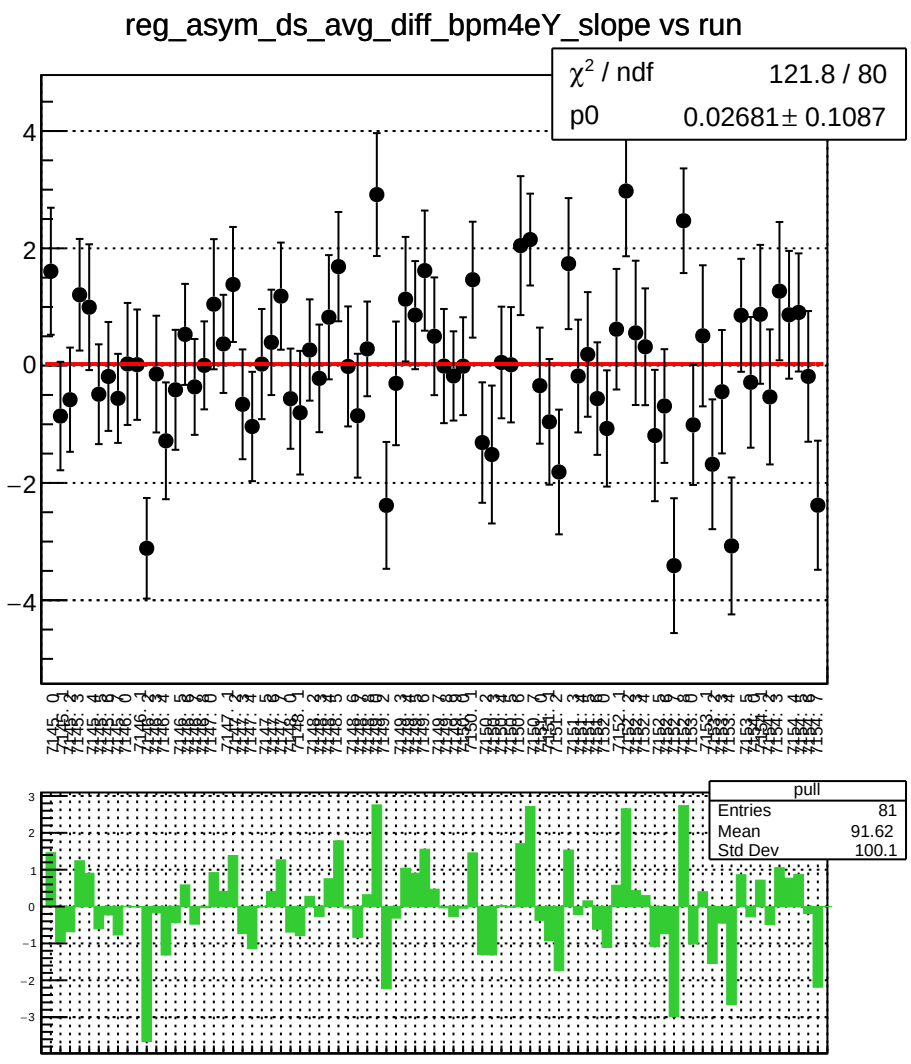

pull1D
Entries 81
Mean 0.003464
Std Dev 1.073

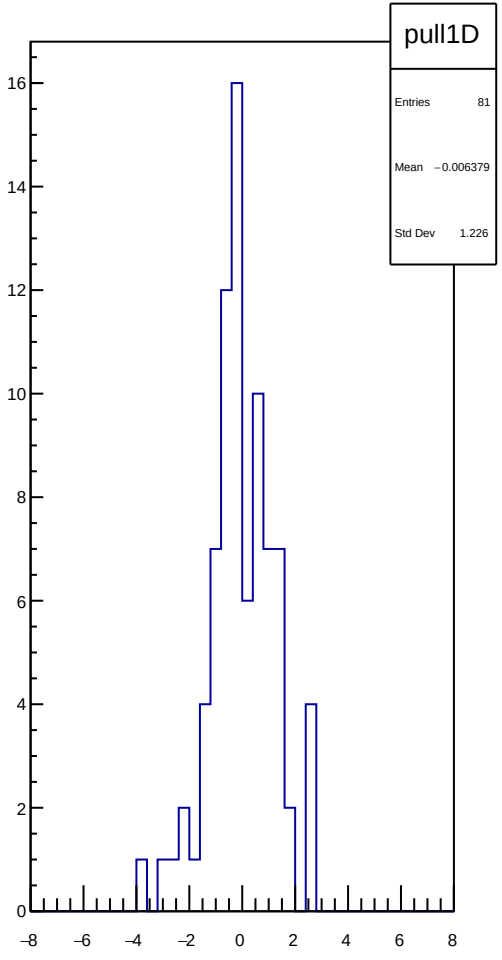

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 161.3 / 80
p0 −0.1548 ± 0.1155
pull
Entries 81
Mean 272
Std Dev 242.4
pull1D
Entries 81
Mean −0.007569
Std Dev 1.411

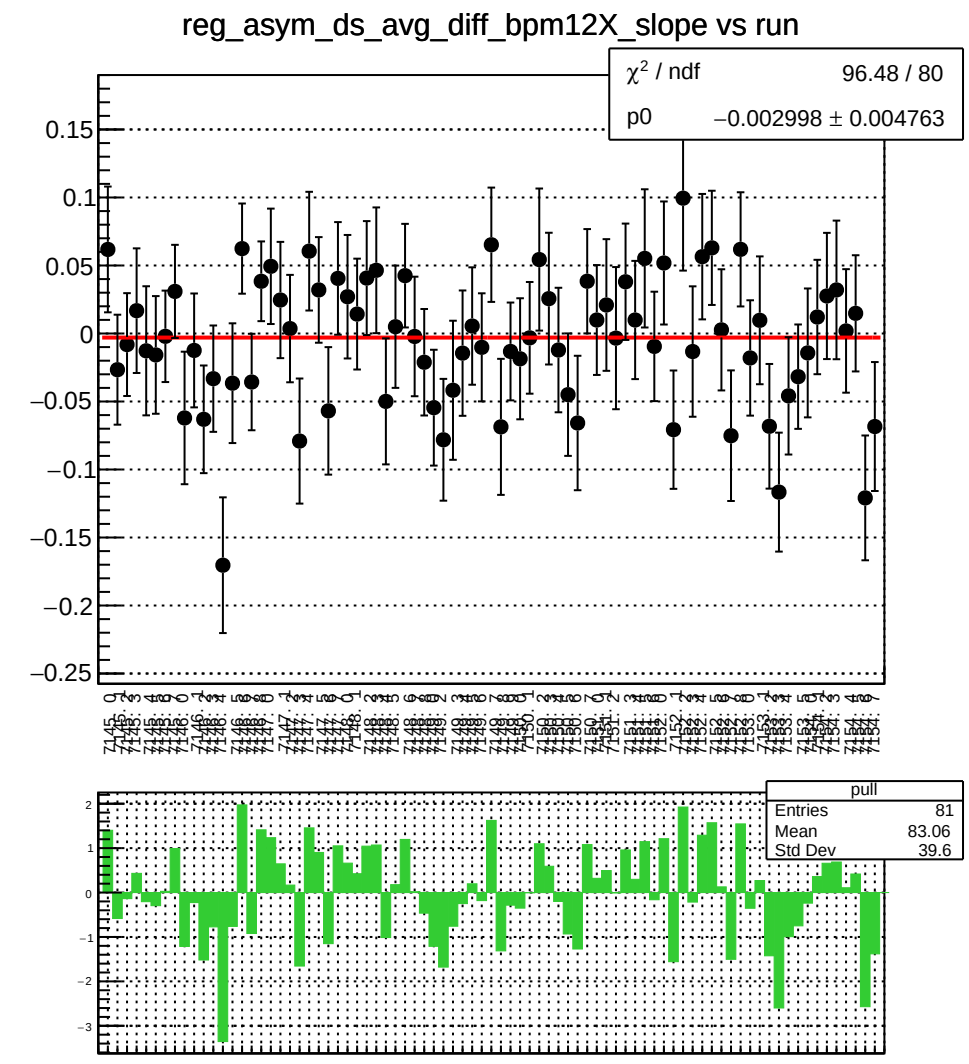

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 134.4 / 80
p0 −0.02479 ± 0.09966
pull
Entries 81
Mean 61.69
Std Dev 420.8
pull1D
Entries 81
Mean 0.0005166
Std Dev 1.288

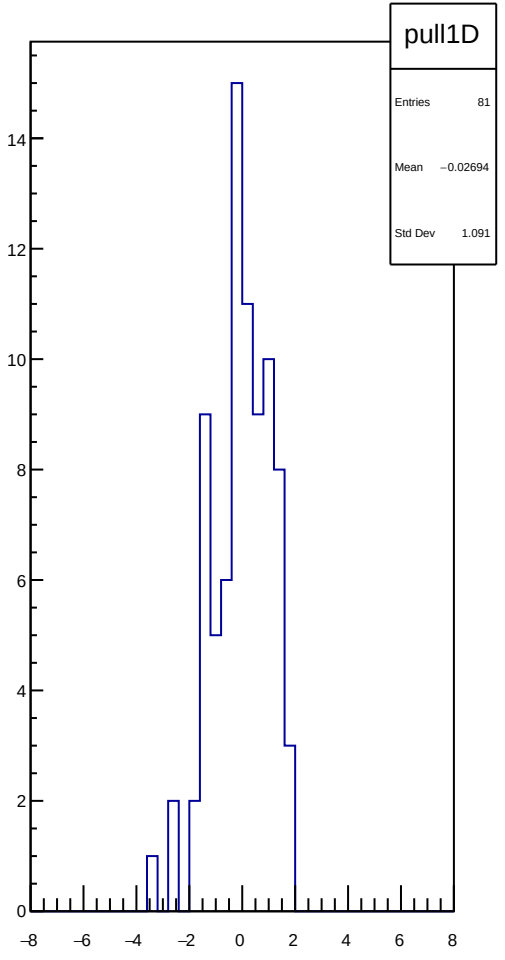

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 127.9 / 80
p0 0.1446 ± 0.1182
pull
Entries 81
Mean 147.8
Std Dev 123.6

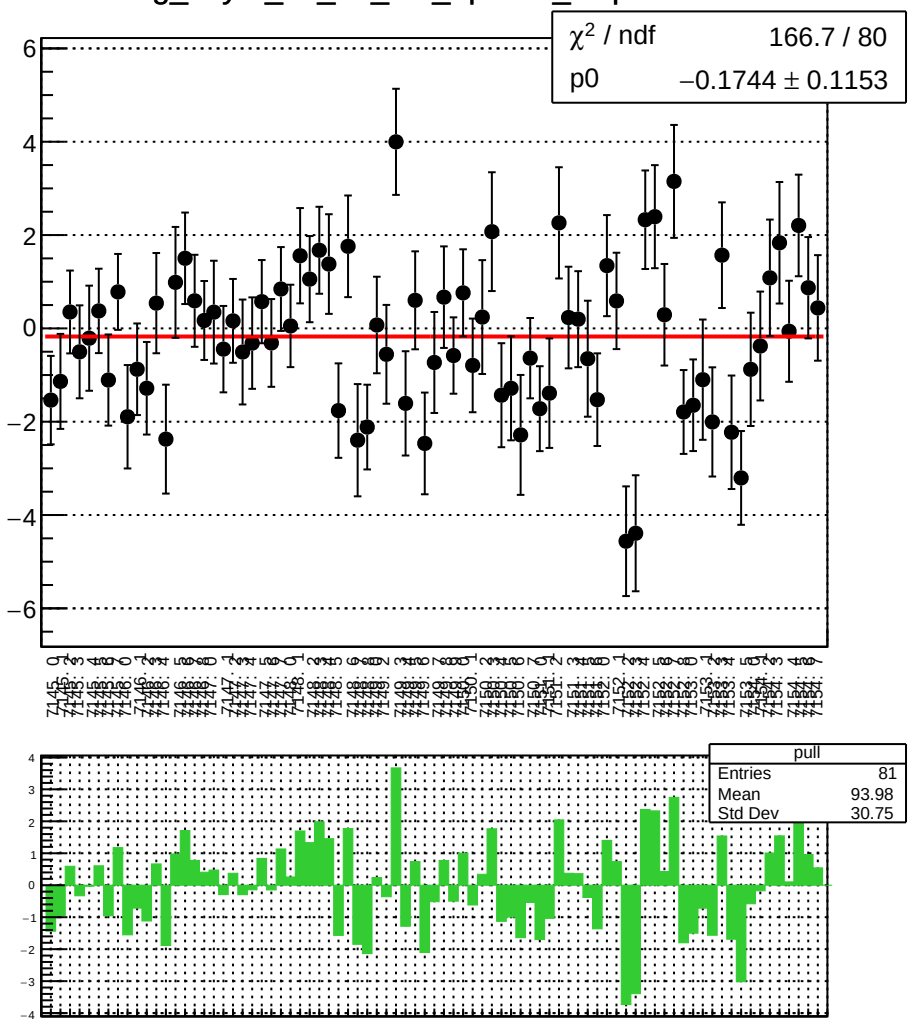

pull1D
Entries 81
Mean 0.008884
Std Dev 1.257

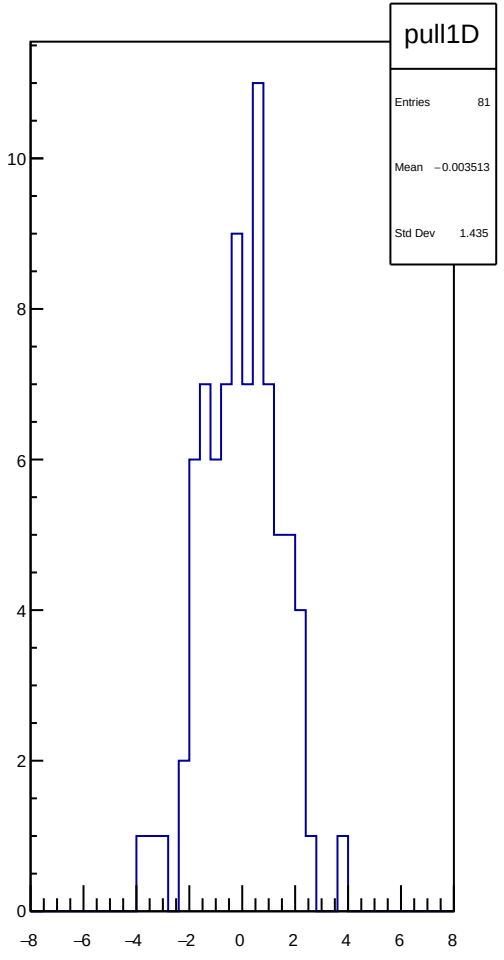

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 121.8 / 80
p0 0.02681 ± 0.1087
pull
Entries 81
Mean 91.62
Std Dev 100.1

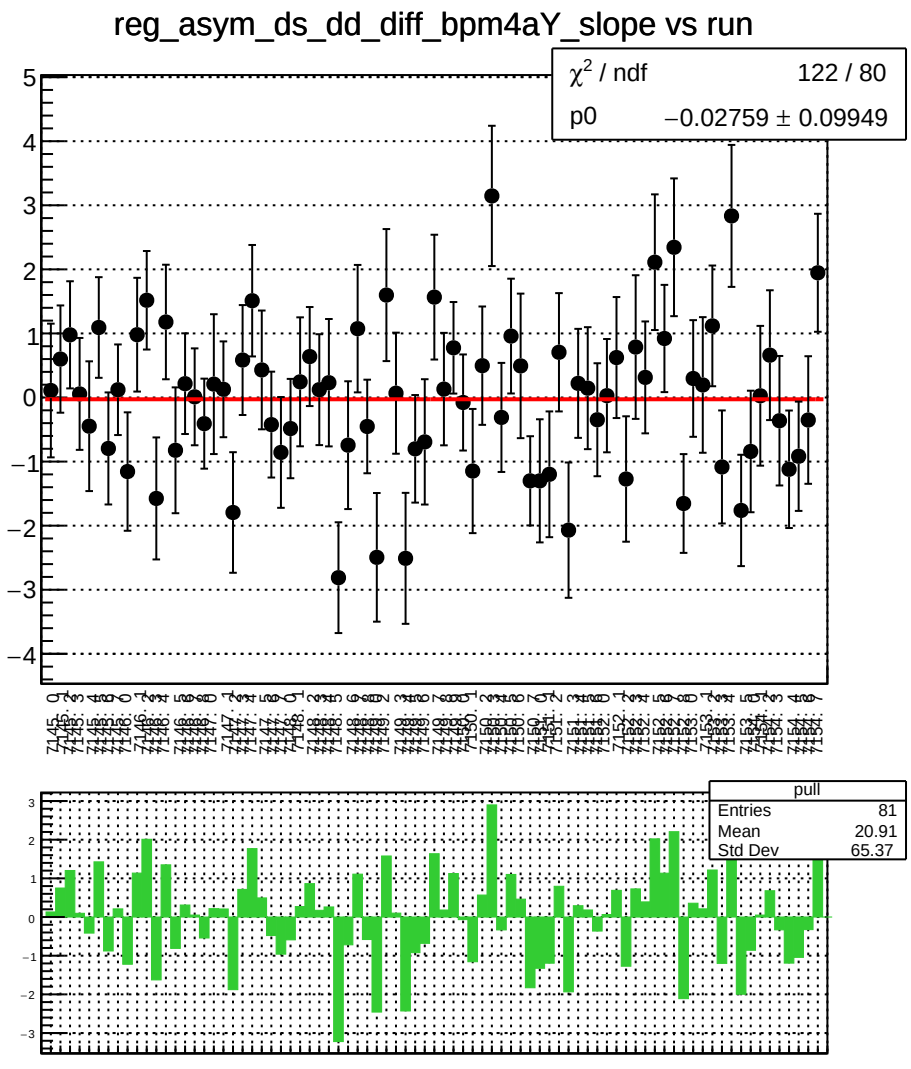

pull1D
Entries 81
Mean −0.006379
Std Dev 1.226

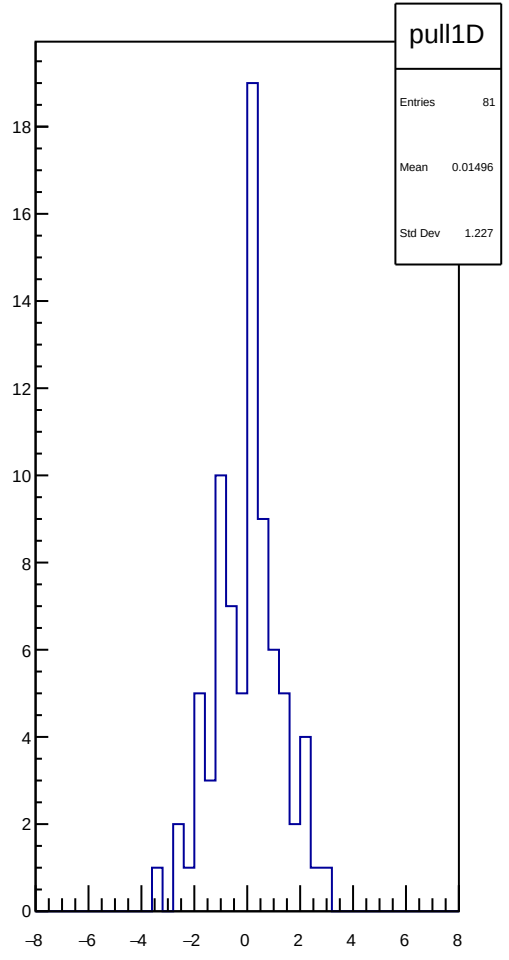

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 96.48 / 80
p0 −0.002998 ± 0.004763
pull
Entries 81
Mean 83.06
Std Dev 39.6

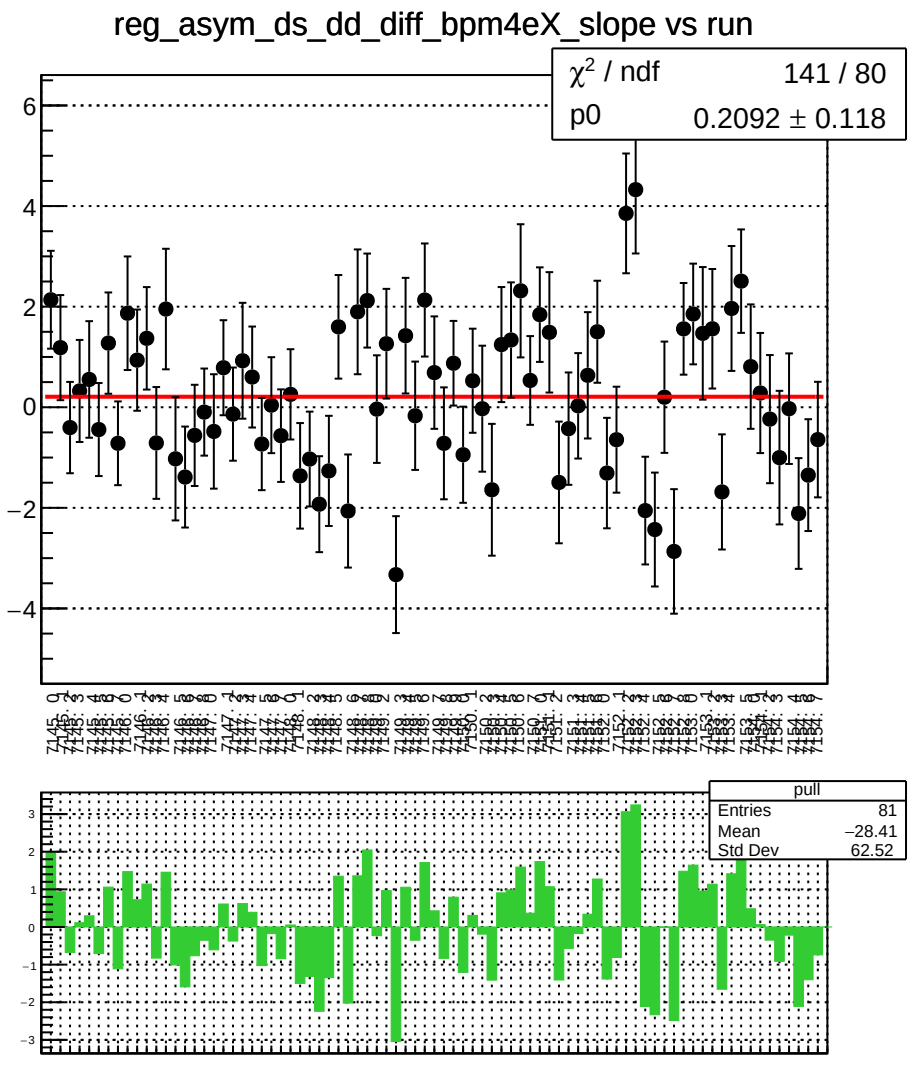

pull1D
Entries 81
Mean −0.02694
Std Dev 1.091

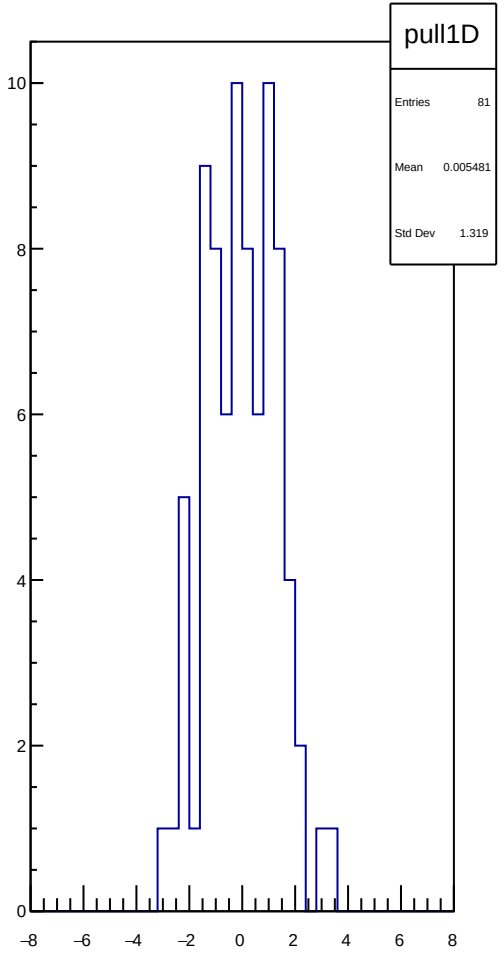

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 166.7 / 80
p0 −0.1744 ± 0.1153
pull
Entries 81
Mean 93.98
Std Dev 30.75

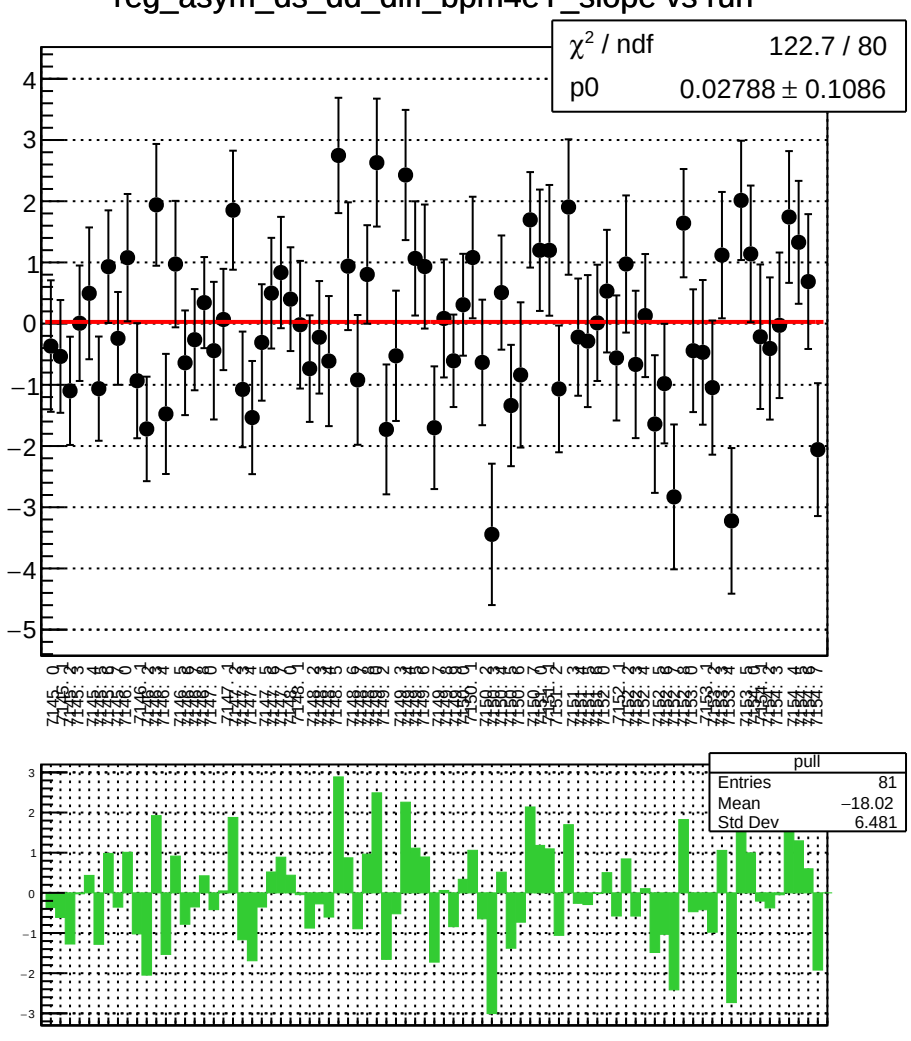

pull1D
Entries 81
Mean −0.003513
Std Dev 1.435

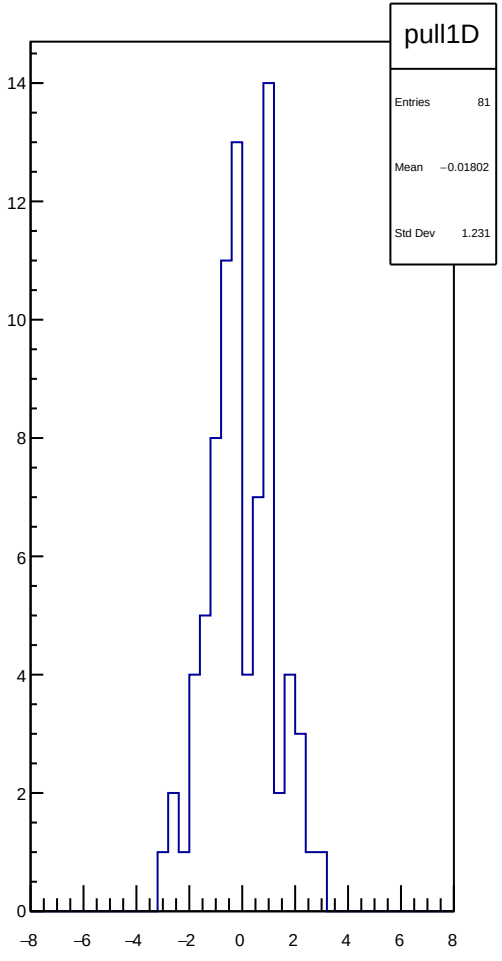

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 122 / 80
p0 −0.02759 ± 0.09949
pull
Entries 81
Mean 20.91
Std Dev 65.37

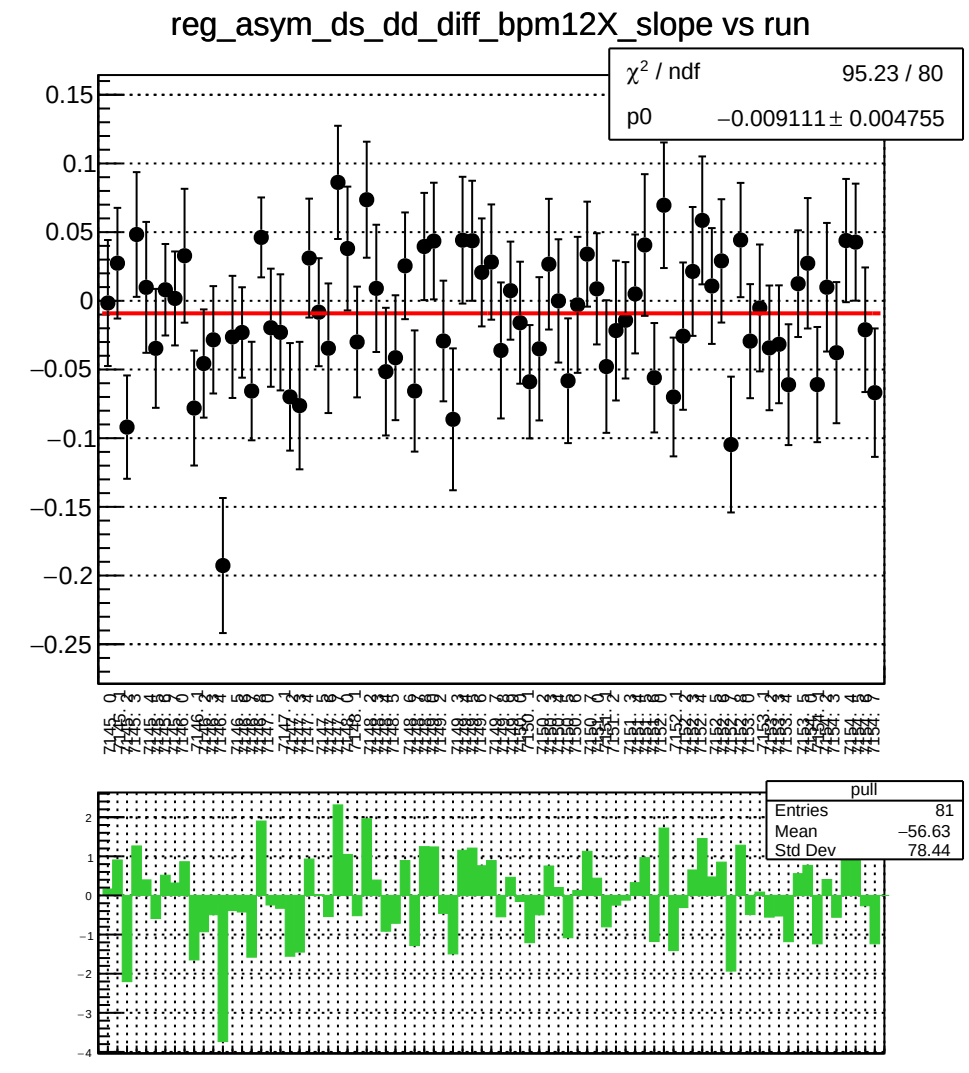

pull1D
Entries 81
Mean 0.01496
Std Dev 1.227

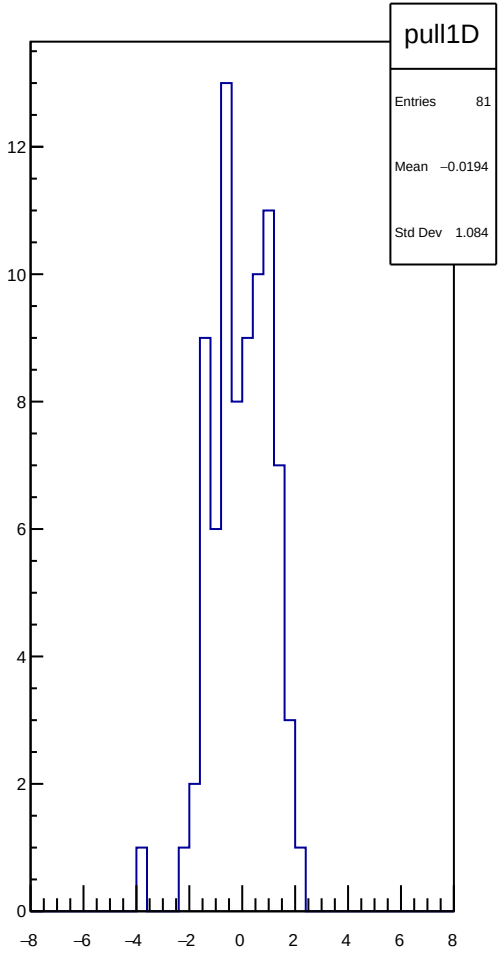

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 141 / 80
p0 0.2092 ± 0.118
pull
Entries 81
Mean −28.41
Std Dev 62.52

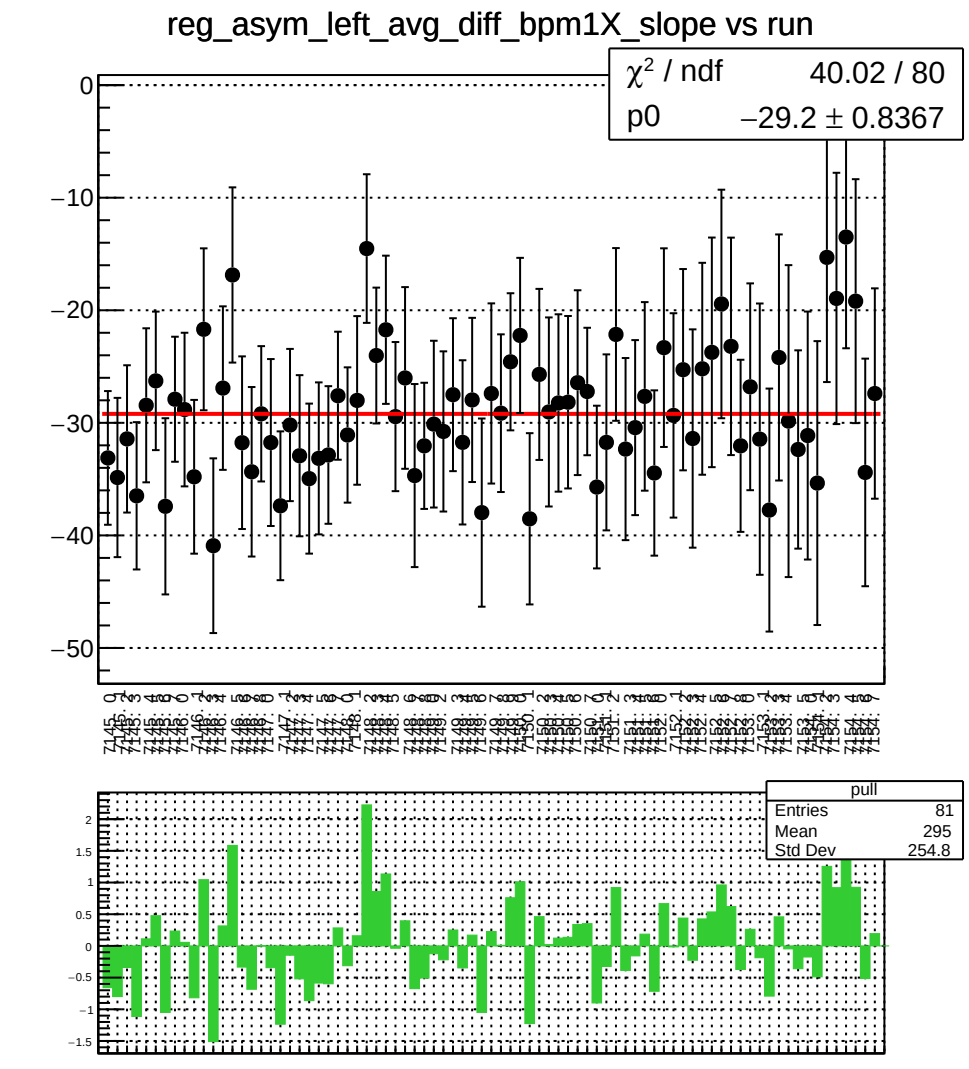

pull1D
Entries 81
Mean 0.005481
Std Dev 1.319

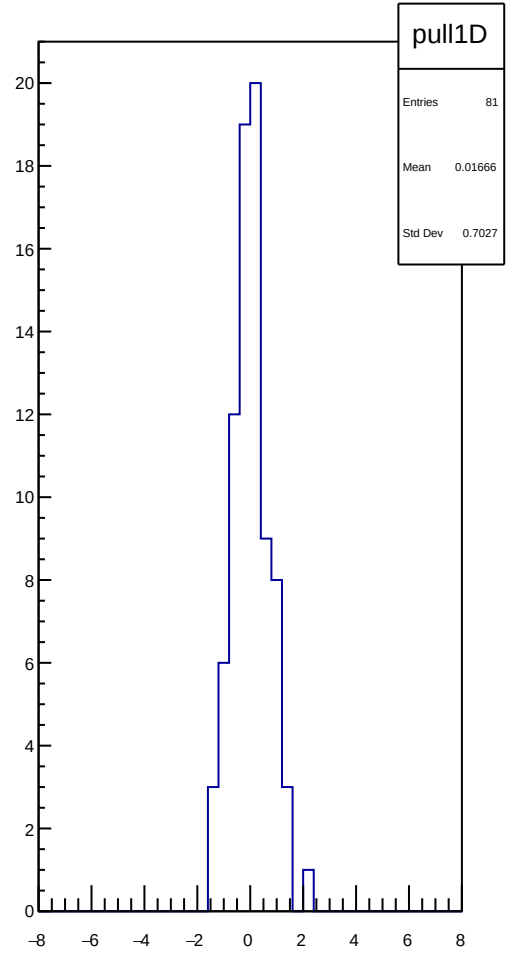

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 122.7 / 80
p0 0.02788 ± 0.1086
pull
Entries 81
Mean −18.02
Std Dev 6.481

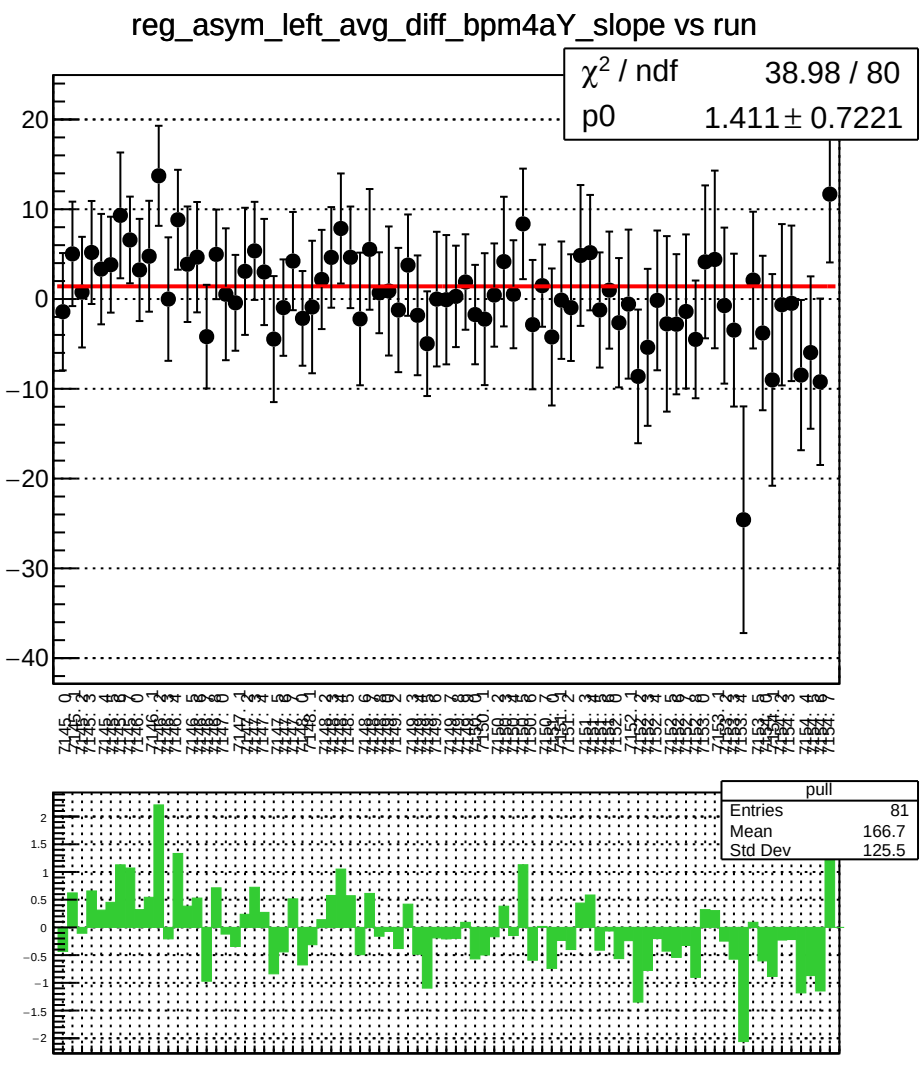

pull1D
Entries 81
Mean −0.01802
Std Dev 1.231

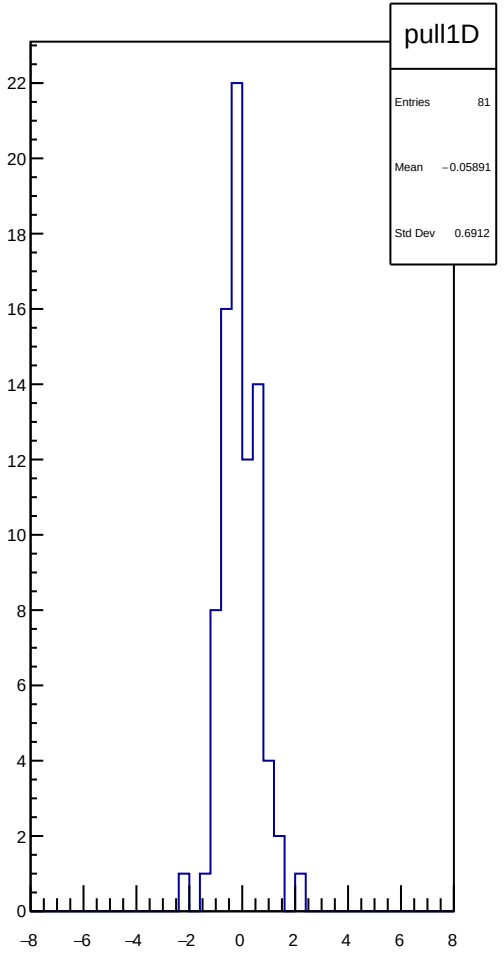

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 95.23 / 80
p0 −0.009111 ± 0.004755
pull
Entries 81
Mean −56.63
Std Dev 78.44

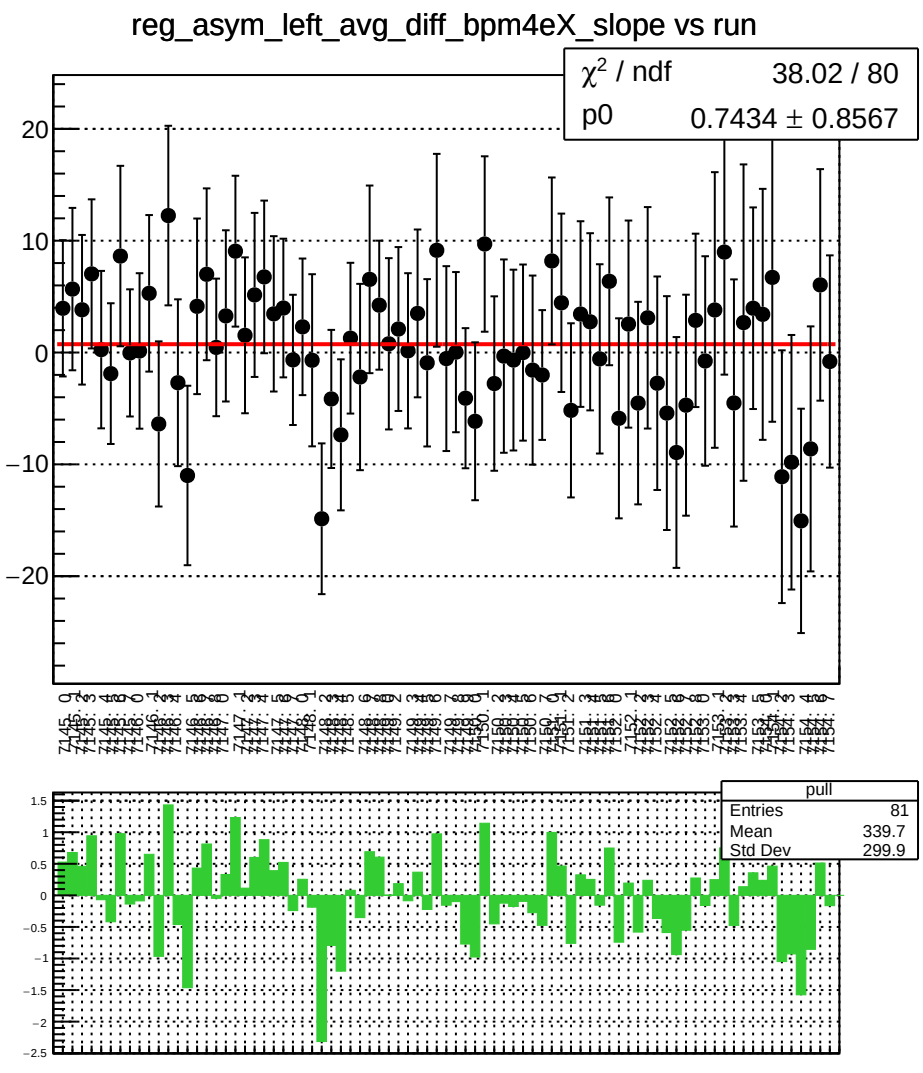

pull1D
Entries 81
Mean −0.0194
Std Dev 1.084

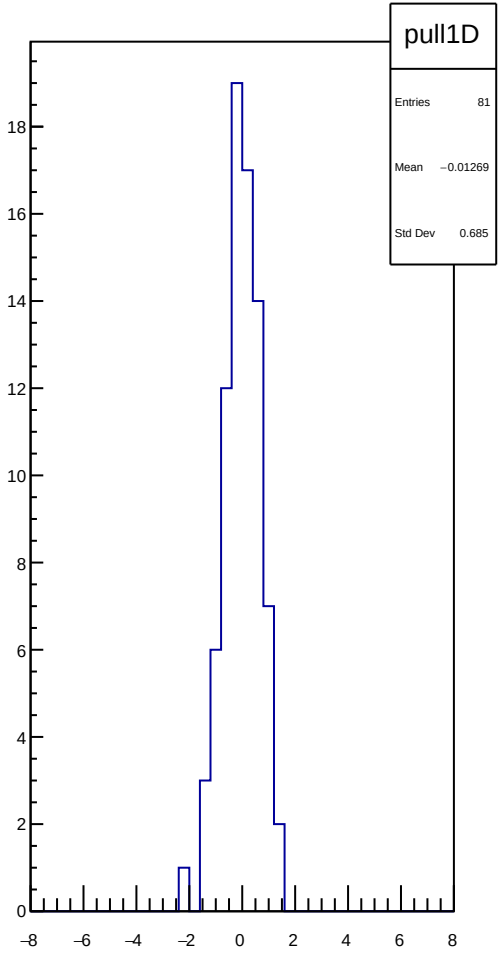

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 40.02 / 80
p0 −29.2 ± 0.8367
pull
Entries 81
Mean 295
Std Dev 254.8

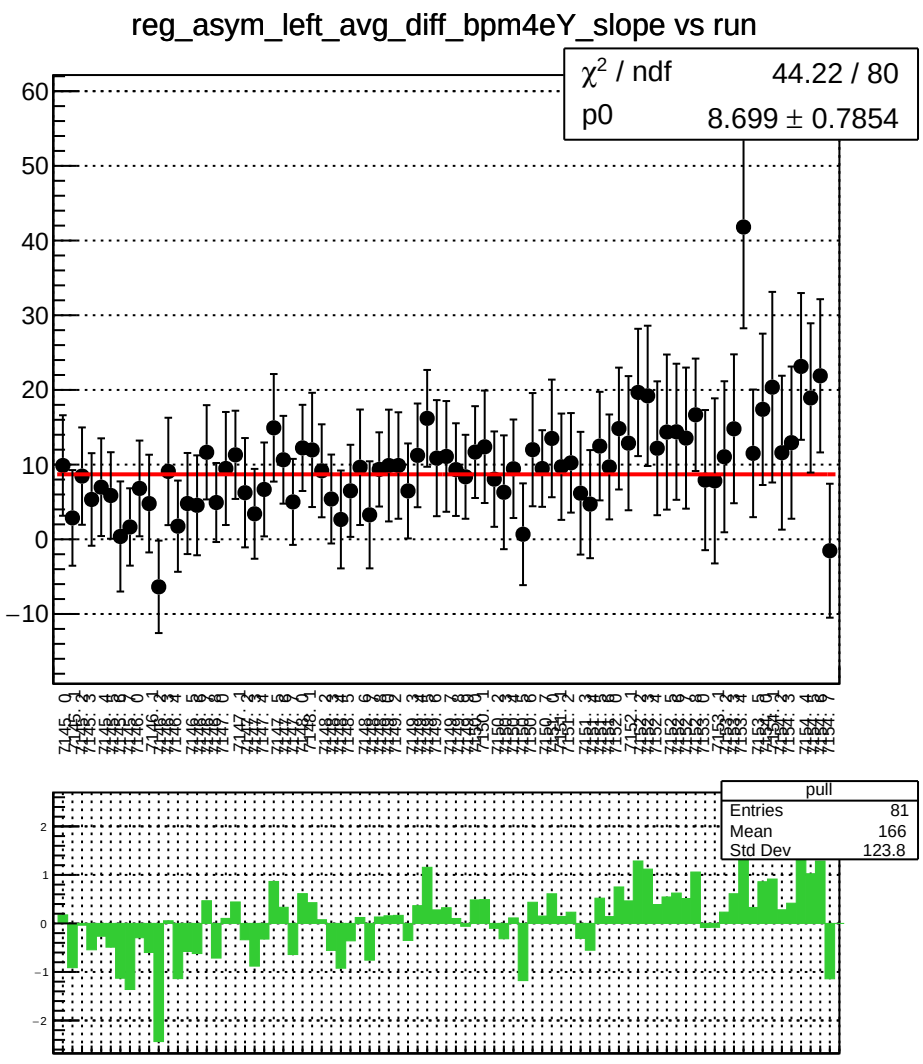

pull1D
Entries 81
Mean 0.01666
Std Dev 0.7027

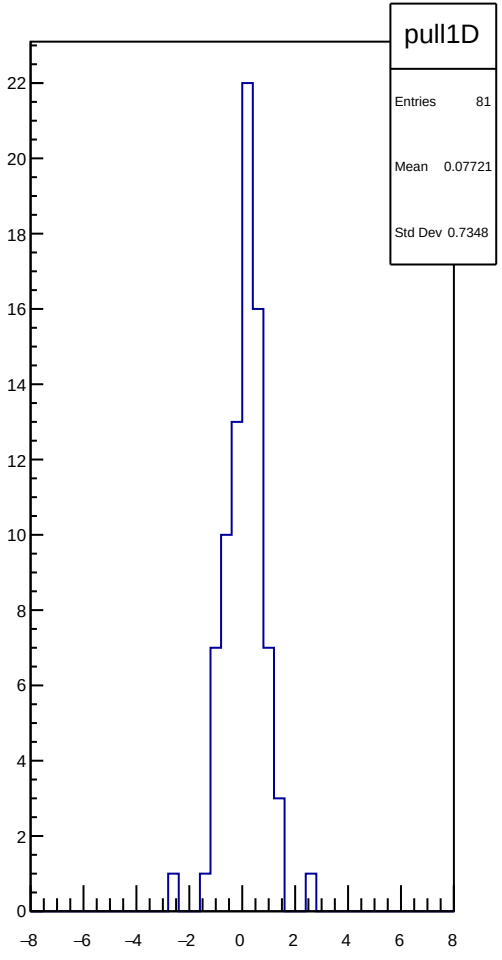

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 38.98 / 80
p0 1.411 ± 0.7221
pull
Entries 81
Mean 166.7
Std Dev 125.5

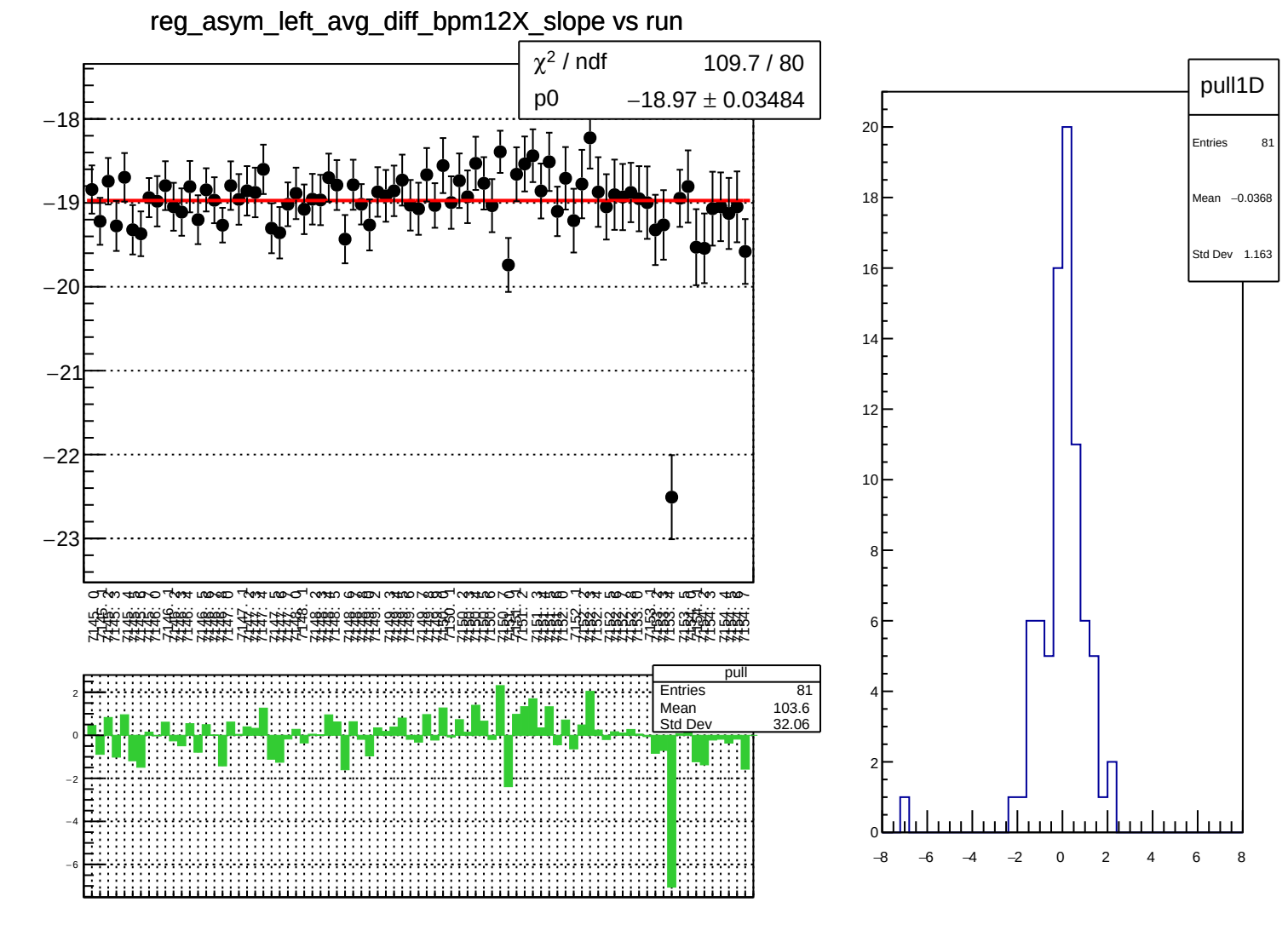

pull1D
Entries 81
Mean −0.05891
Std Dev 0.6912

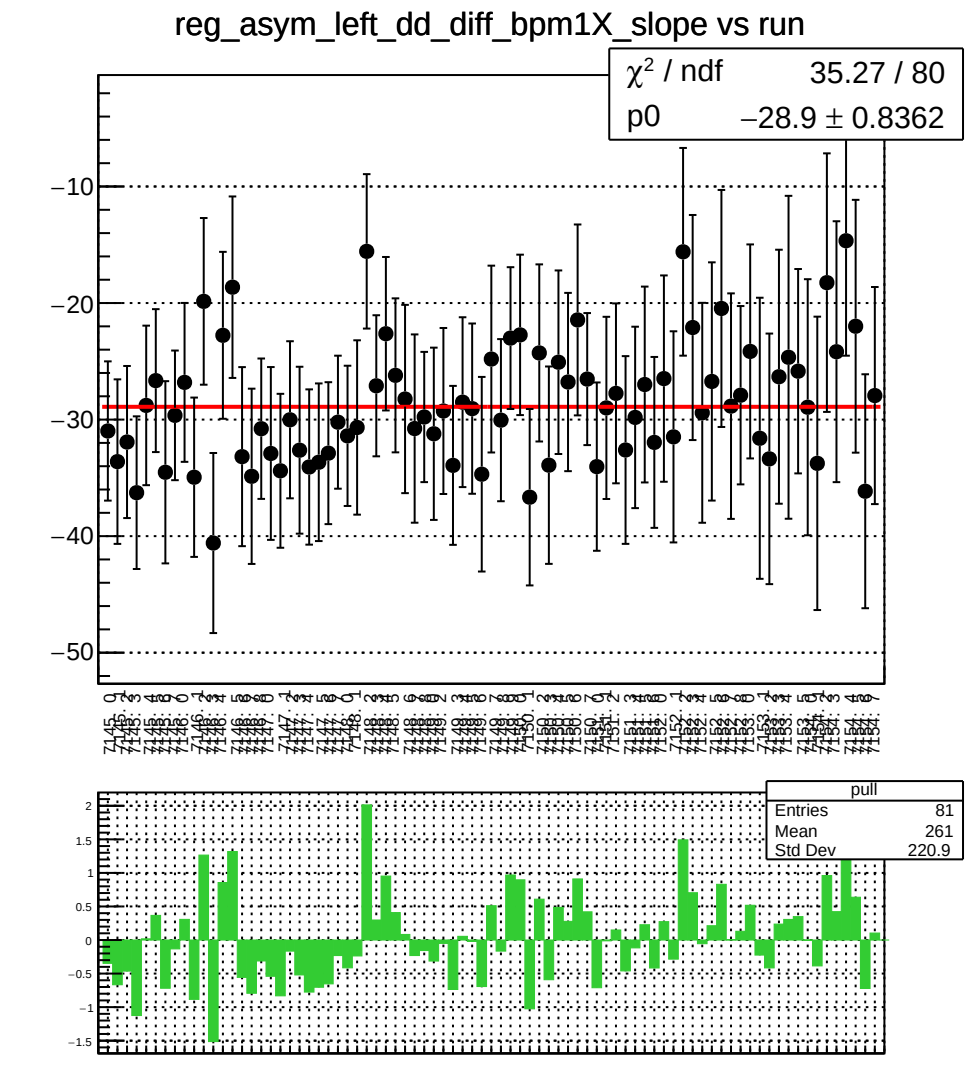

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.02 / 80
p0 0.7434 ± 0.8567
pull
Entries 81
Mean 339.7
Std Dev 299.9

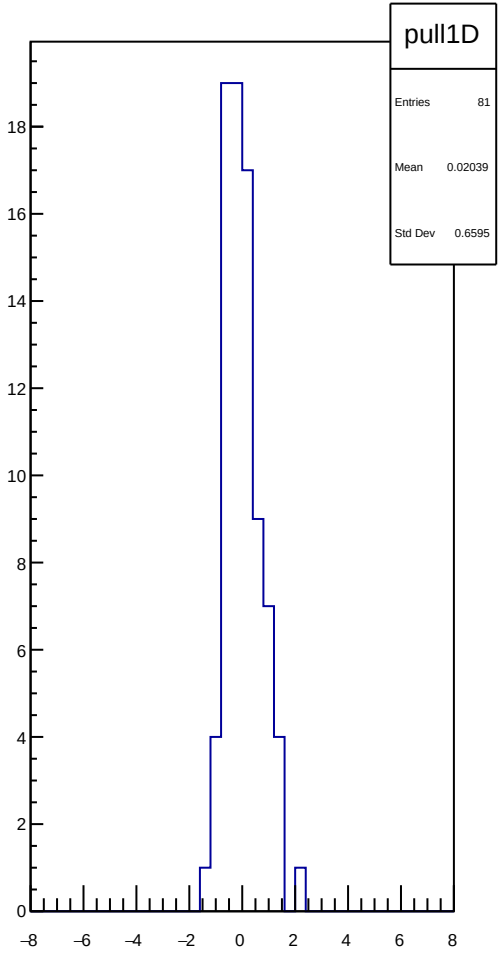

pull1D
Entries 81
Mean −0.01269
Std Dev 0.685

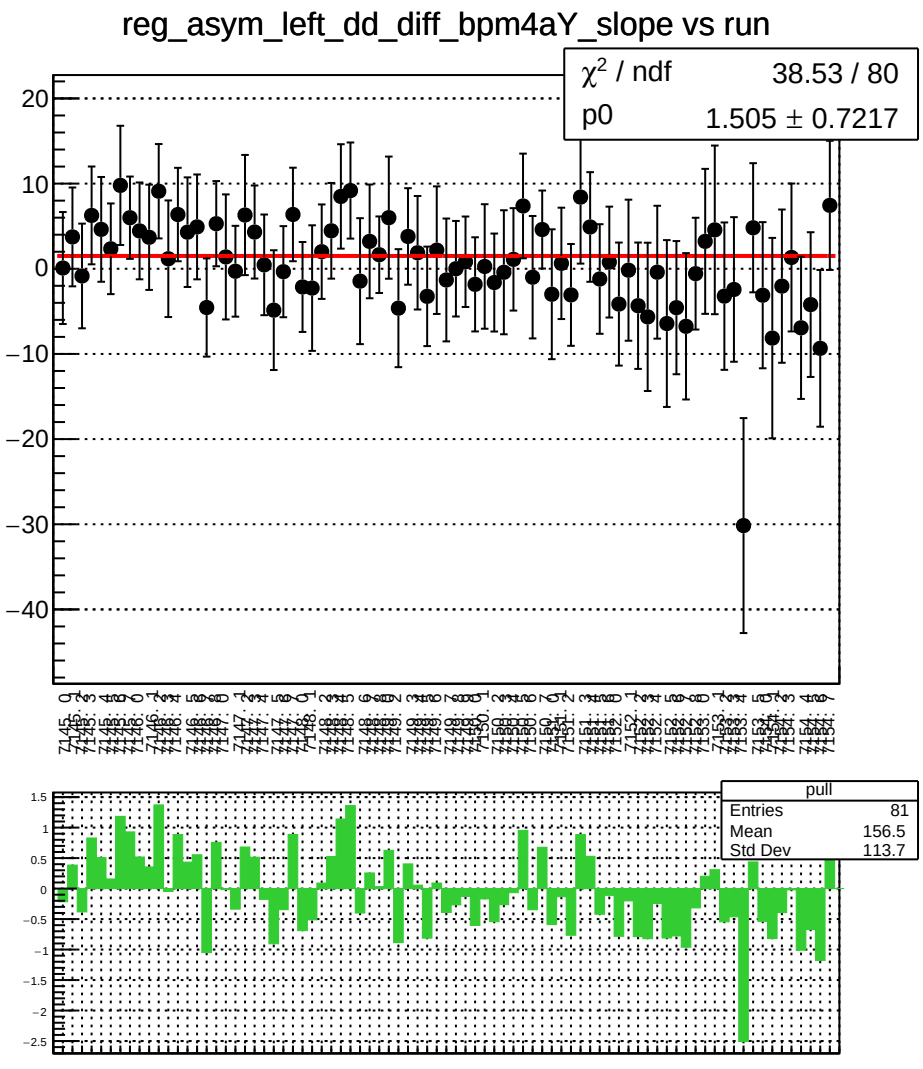

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 44.22 / 80
p0 8.699 ± 0.7854
pull
Entries 81
Mean 166
Std Dev 123.8

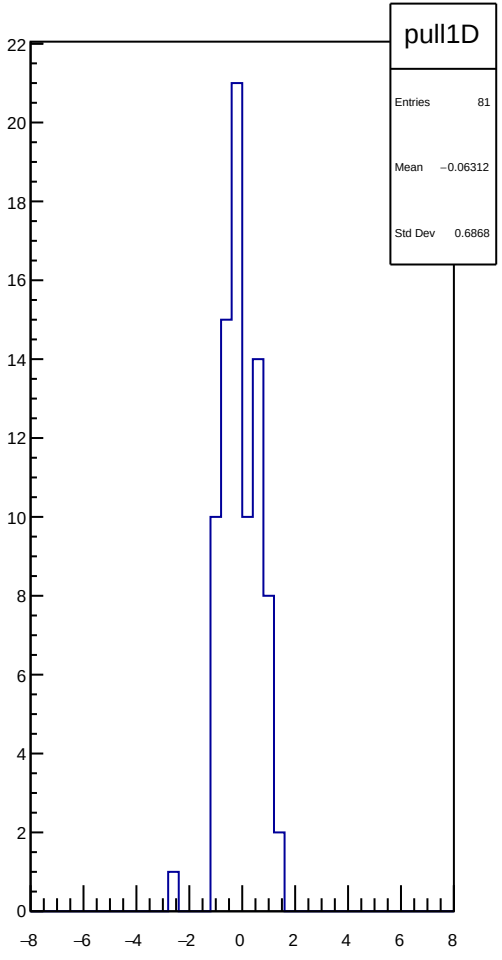

pull1D
Entries 81
Mean 0.07721
Std Dev 0.7348

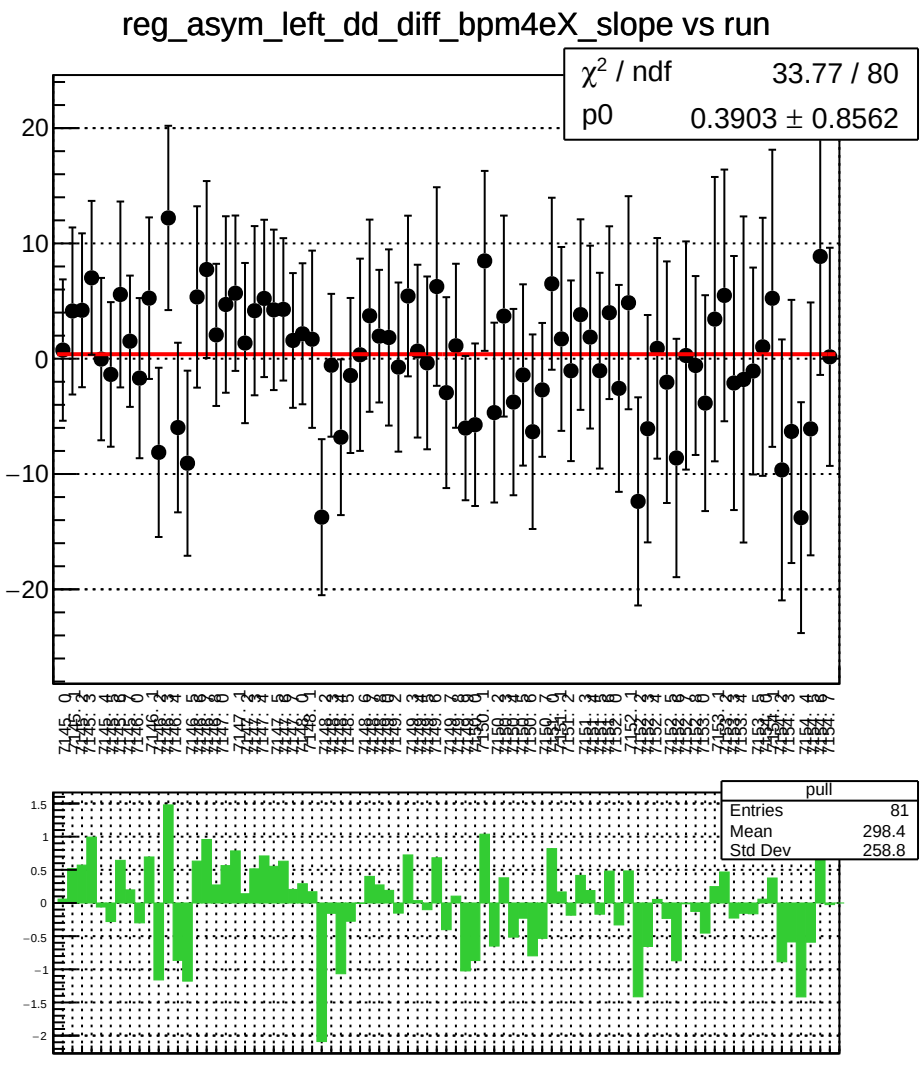

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 109.7 / 80
p0 −18.97 ± 0.03484
pull
Entries 81
Mean 103.6
Std Dev 32.06
pull1D
Entries 81
Mean −0.0368
Std Dev 1.163

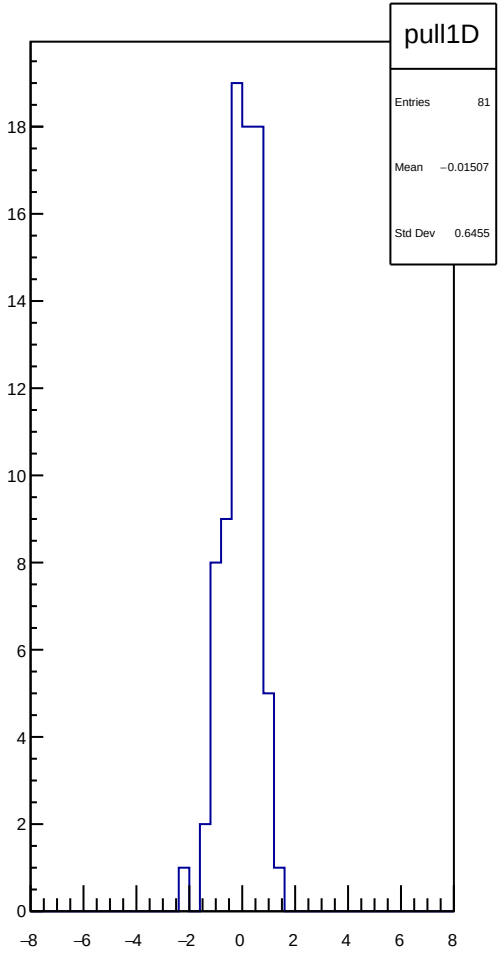

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 35.27 / 80
p0 −28.9 ± 0.8362
pull
Entries 81
Mean 261
Std Dev 220.9

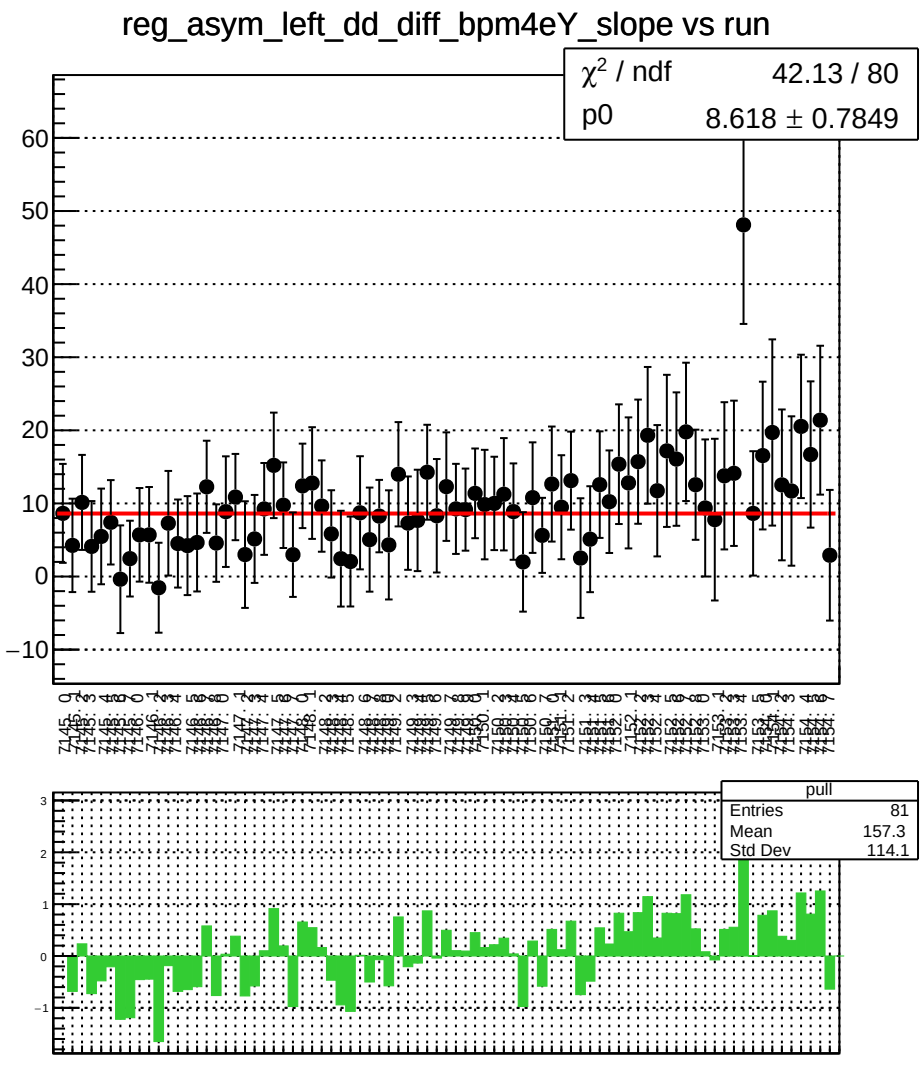

pull1D
Entries 81
Mean 0.02039
Std Dev 0.6595

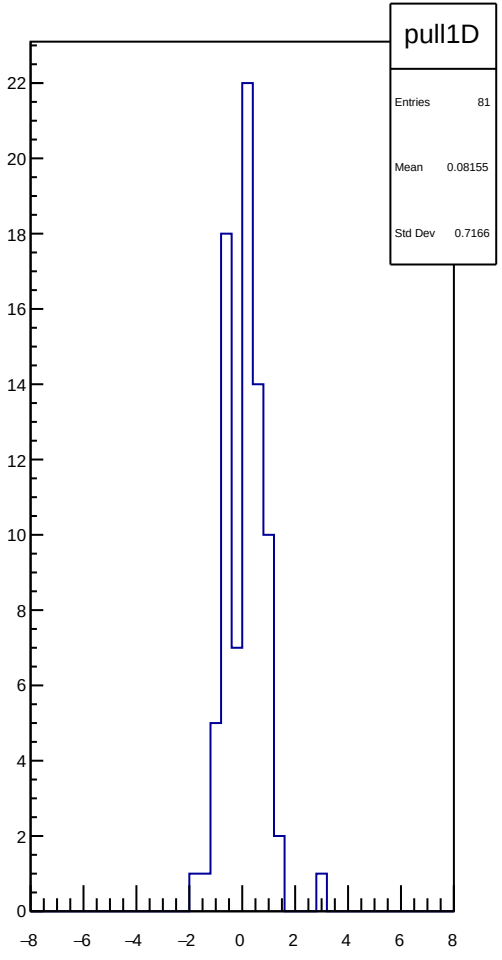

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.53 / 80
p0 1.505 ± 0.7217
pull
Entries 81
Mean 156.5
Std Dev 113.7

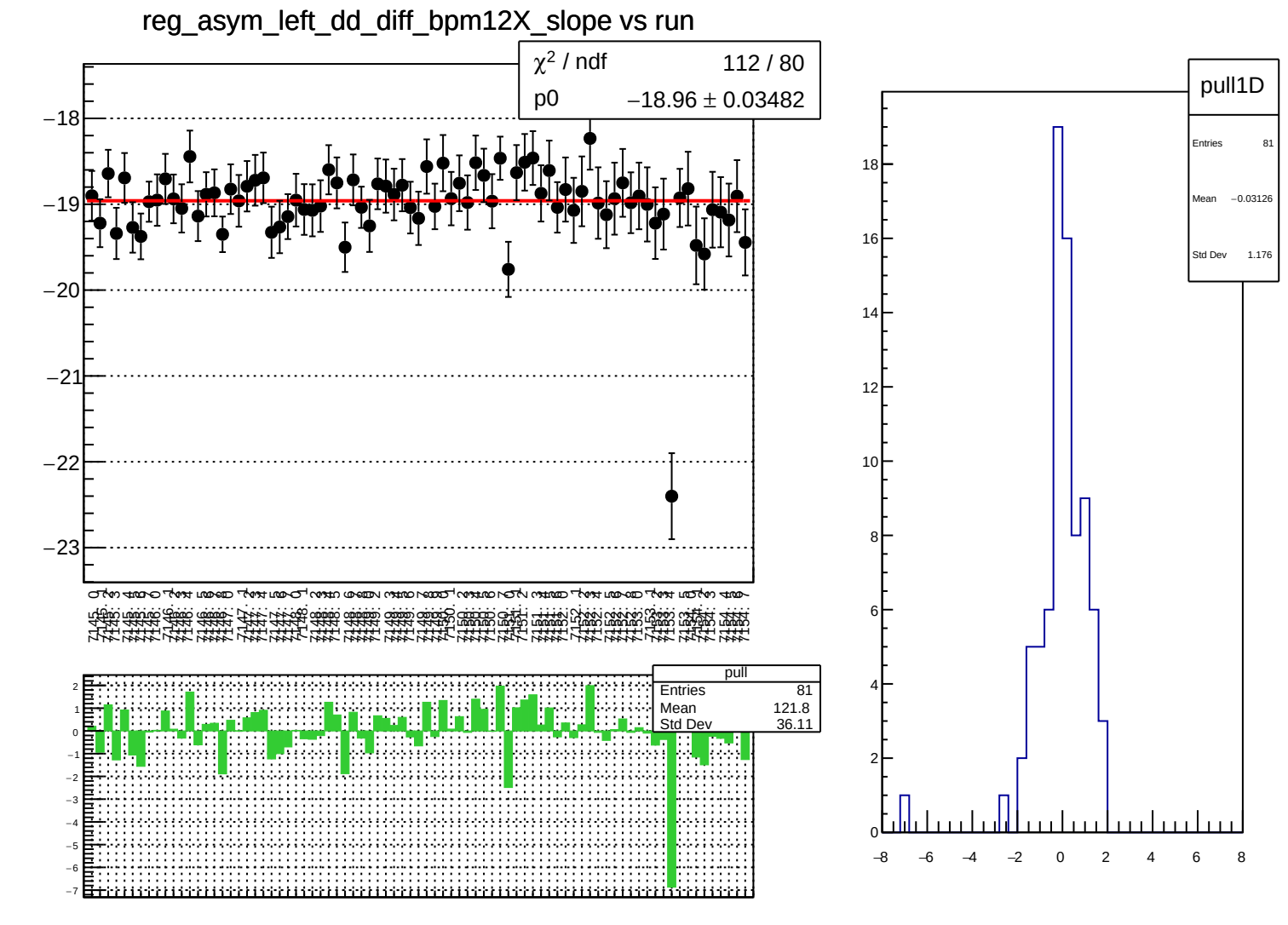

pull1D
Entries 81
Mean −0.06312
Std Dev 0.6868

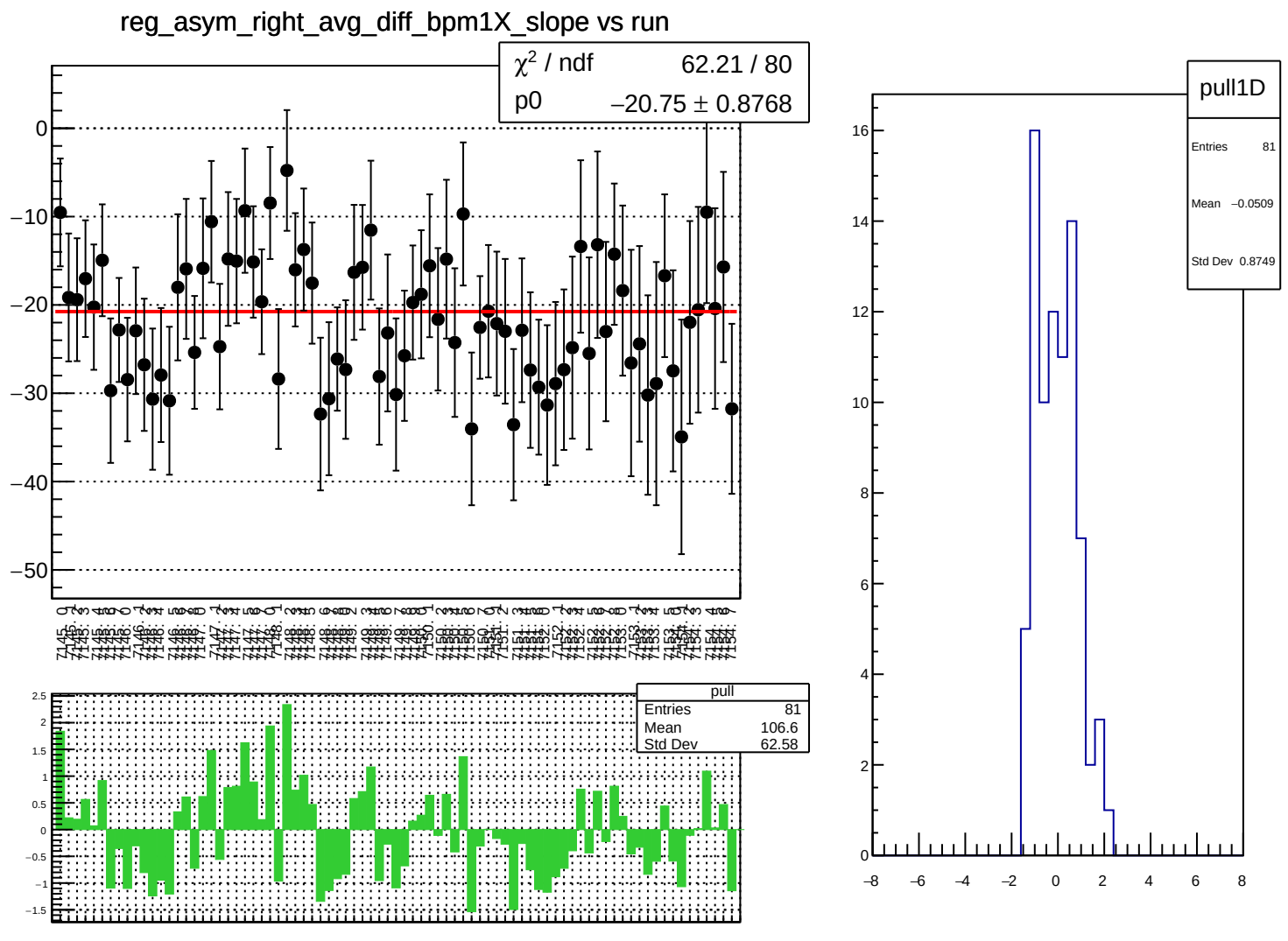

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.77 / 80
p0 0.3903 ± 0.8562
pull
Entries 81
Mean 298.4
Std Dev 258.8

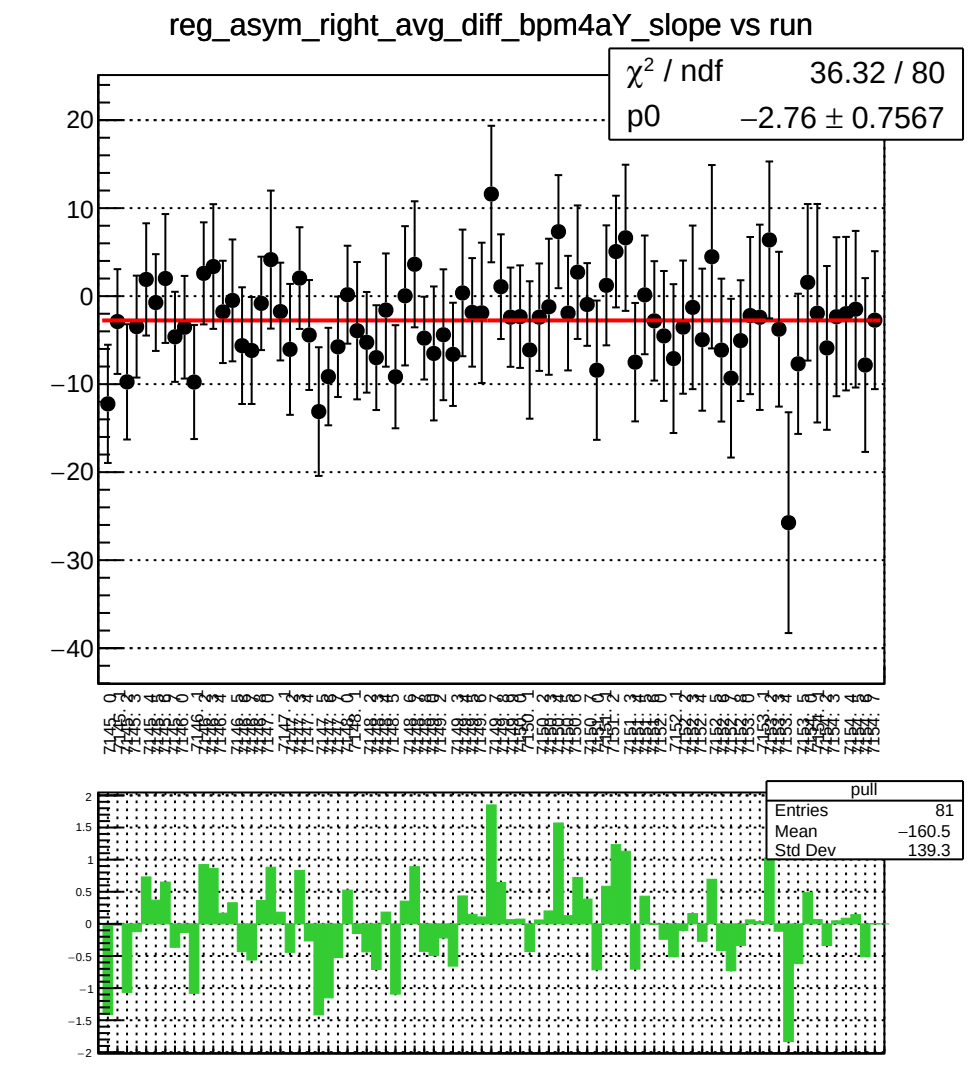

pull1D
Entries 81
Mean −0.01507
Std Dev 0.6455

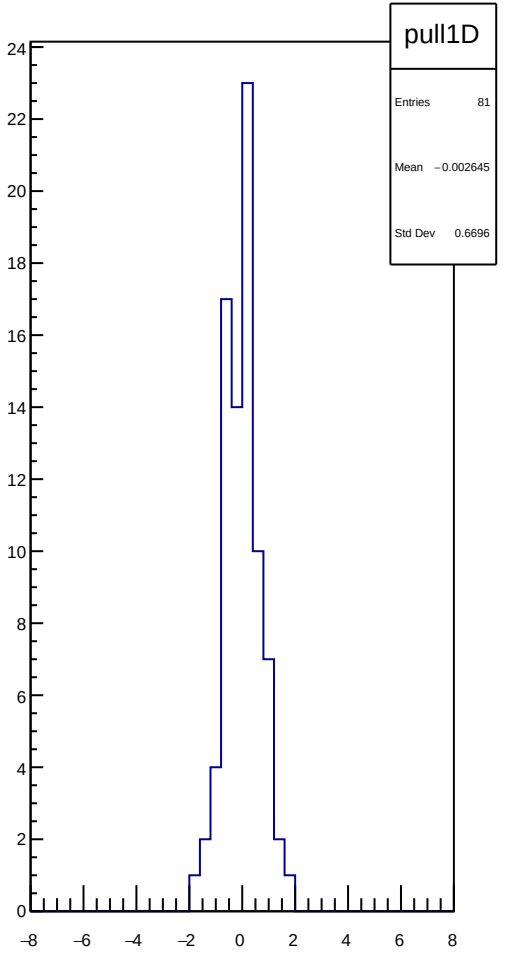

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.13 / 80
p0 8.618 ± 0.7849
pull
Entries 81
Mean 157.3
Std Dev 114.1

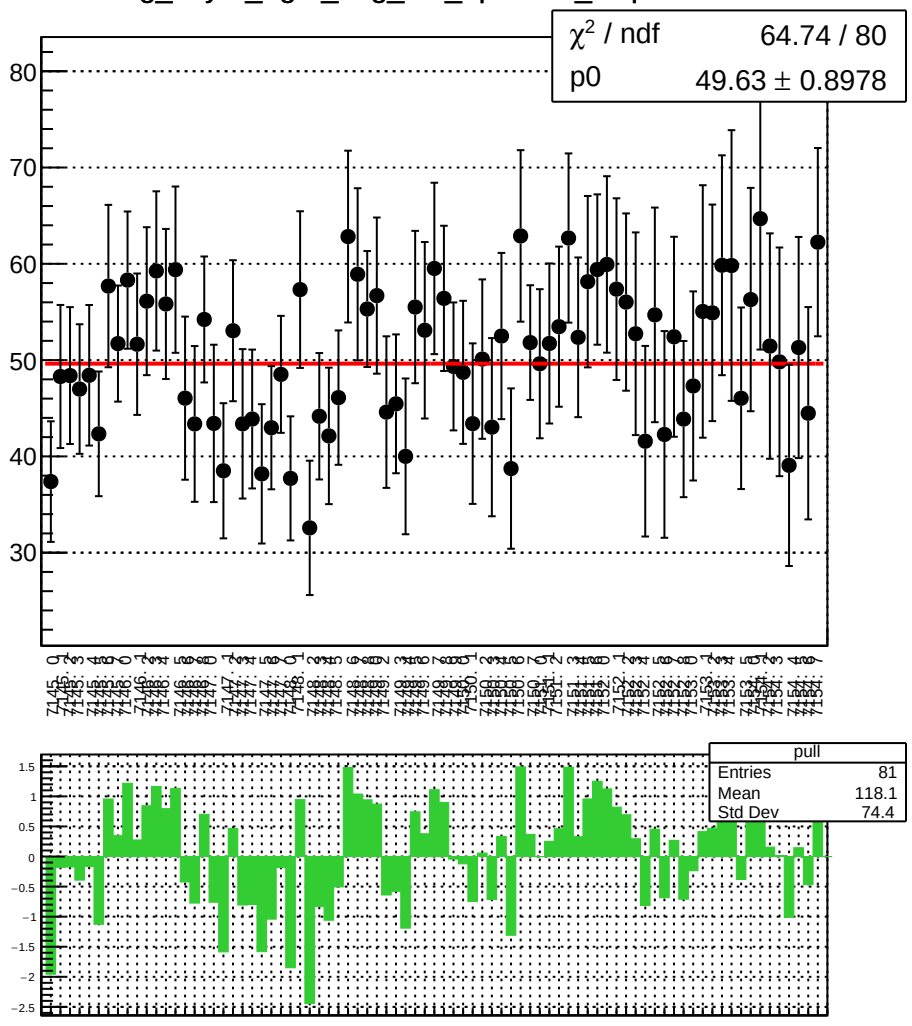

pull1D
Entries 81
Mean 0.08155
Std Dev 0.7166

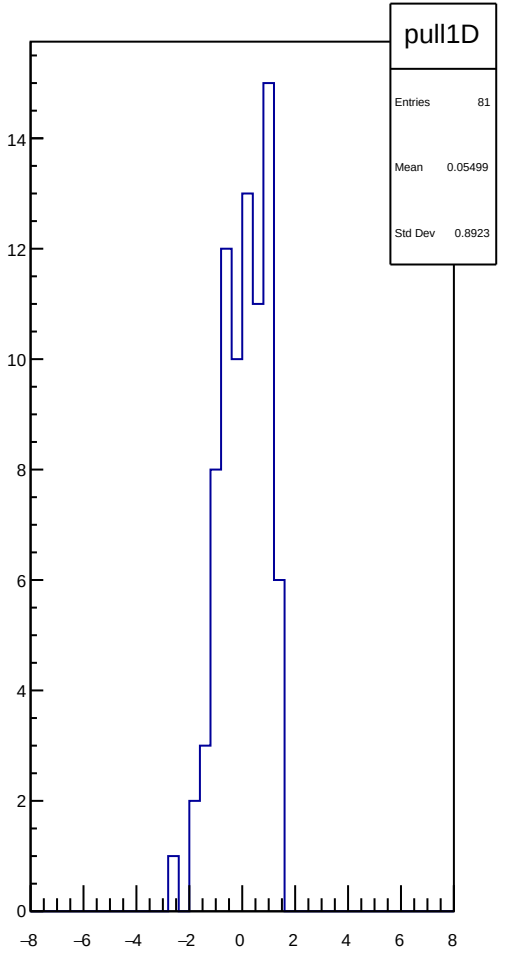

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 112 / 80
p0 −18.96 ± 0.03482
pull
Entries 81
Mean 121.8
Std Dev 36.11
pull1D
Entries 81
Mean −0.03126
Std Dev 1.176

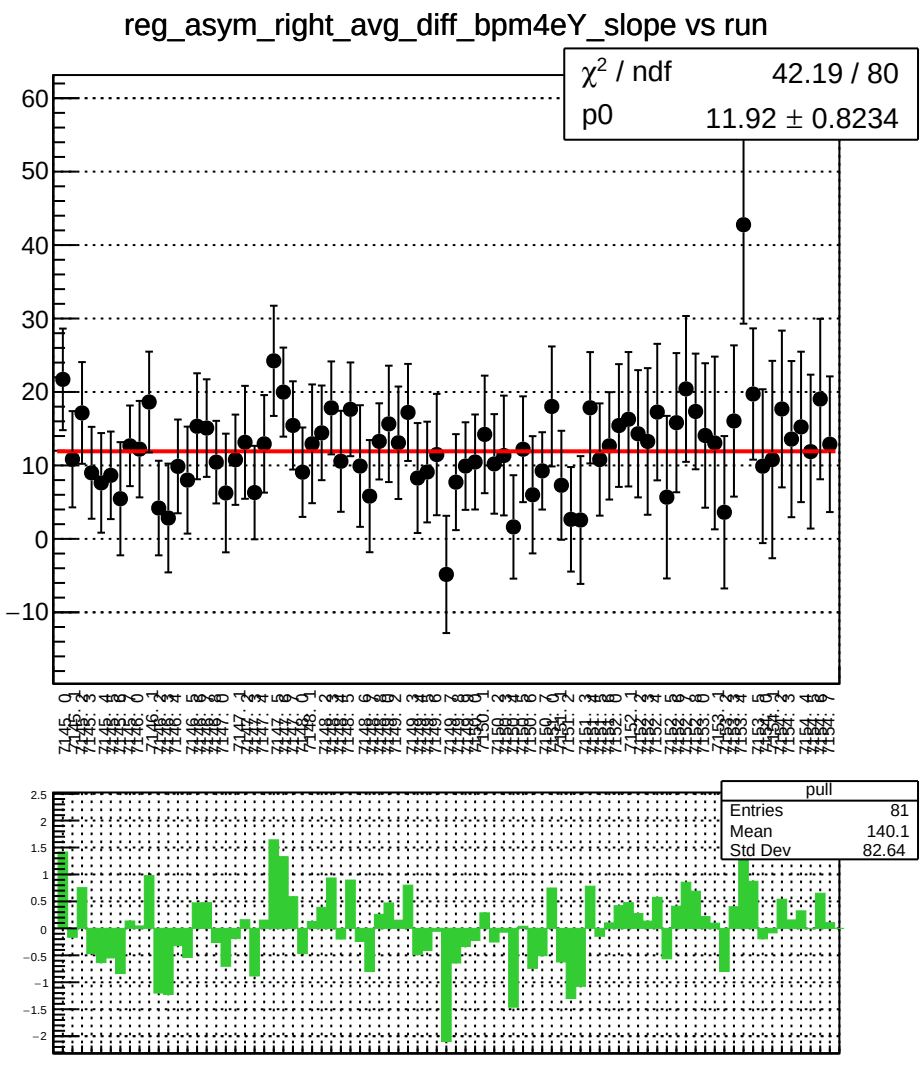

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 62.21 / 80
p0 −20.75 ± 0.8768
pull
Entries 81
Mean 106.6
Std Dev 62.58
pull1D
Entries 81
Mean −0.0509
Std Dev 0.8749

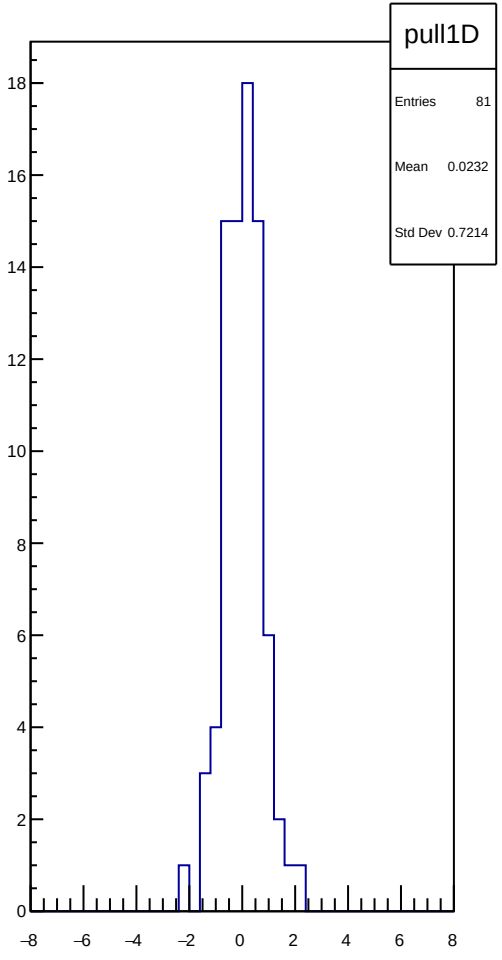

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.32 / 80
p0 −2.76 ± 0.7567
pull
Entries 81
Mean −160.5
Std Dev 139.3

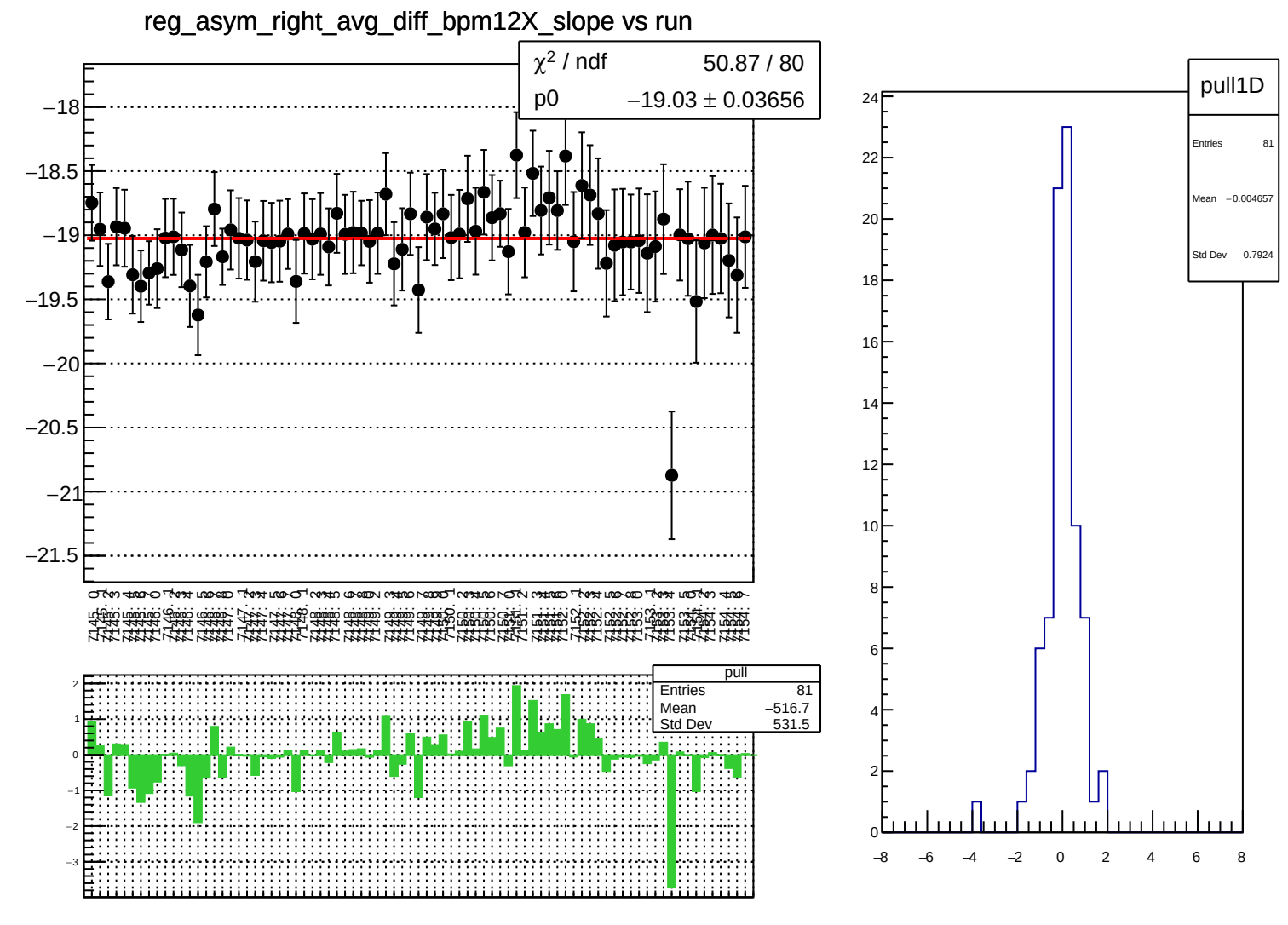

pull1D
Entries 81
Mean −0.002645
Std Dev 0.6696

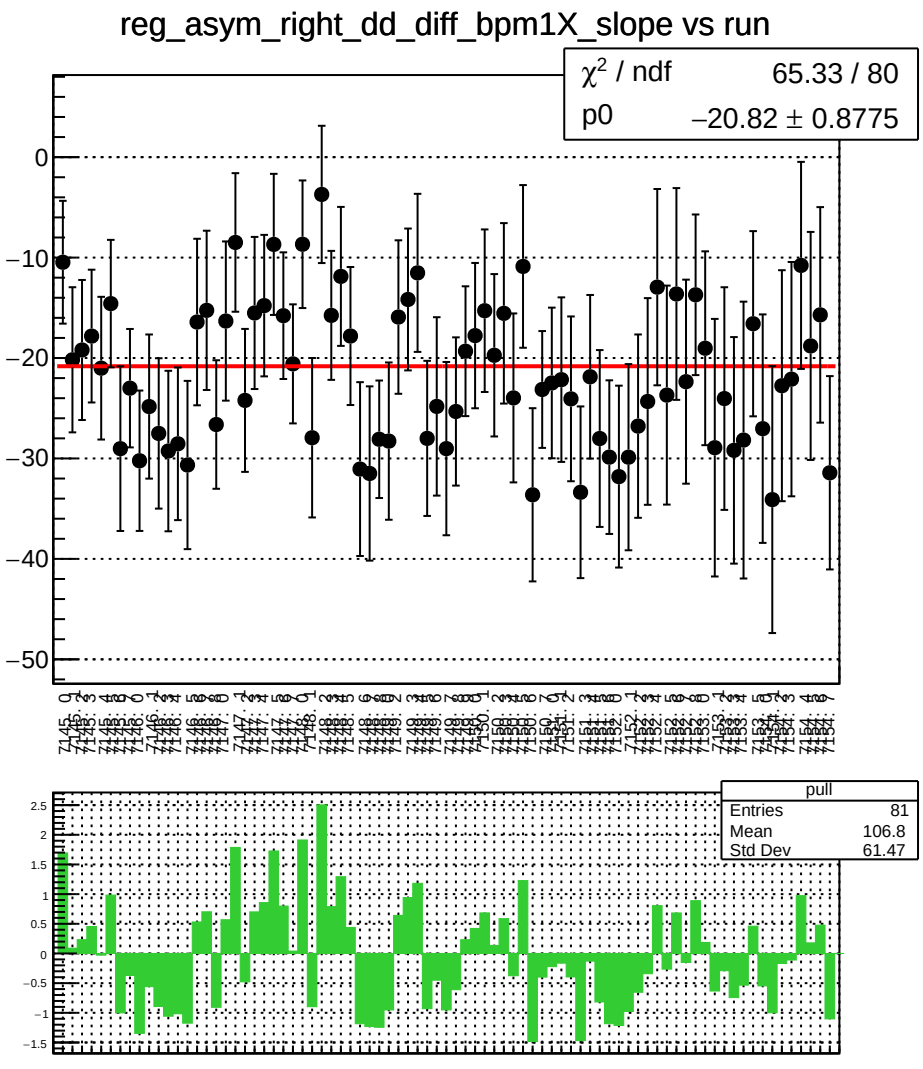

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.74 / 80
p0 49.63 ± 0.8978
pull
Entries 81
Mean 118.1
Std Dev 74.4

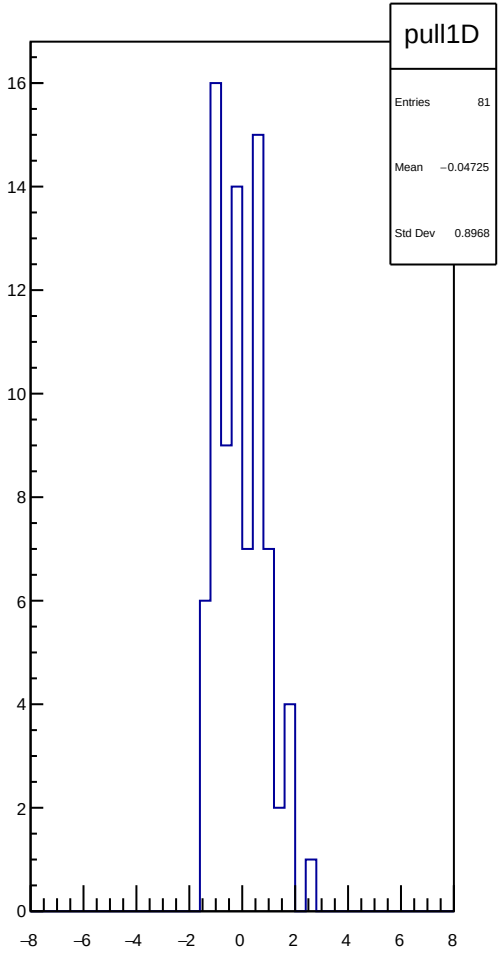

pull1D
Entries 81
Mean 0.05499
Std Dev 0.8923

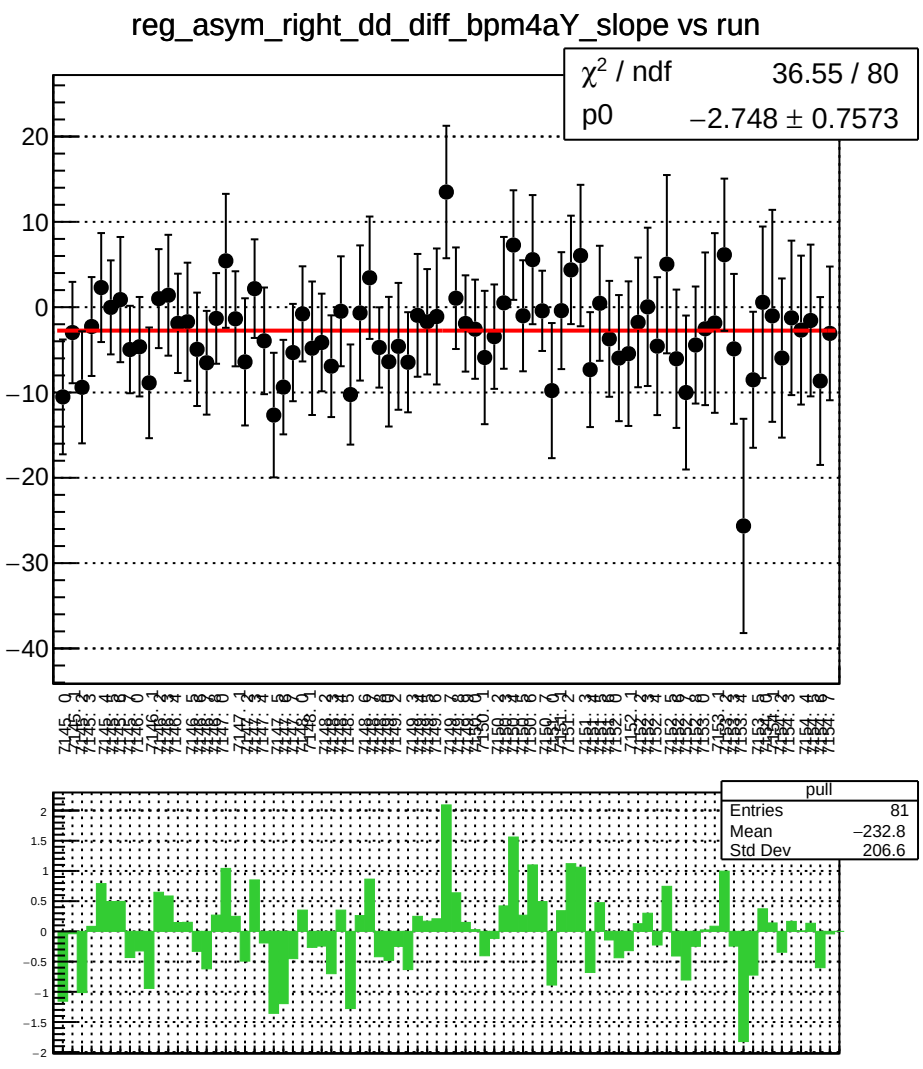

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.19 / 80
p0 11.92 ± 0.8234
pull
Entries 81
Mean 140.1
Std Dev 82.64

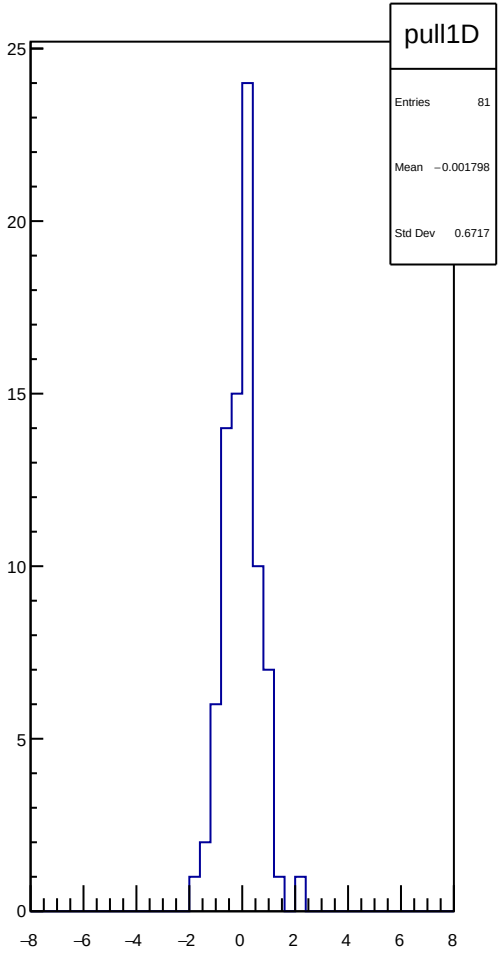

pull1D
Entries 81
Mean 0.0232
Std Dev 0.7214

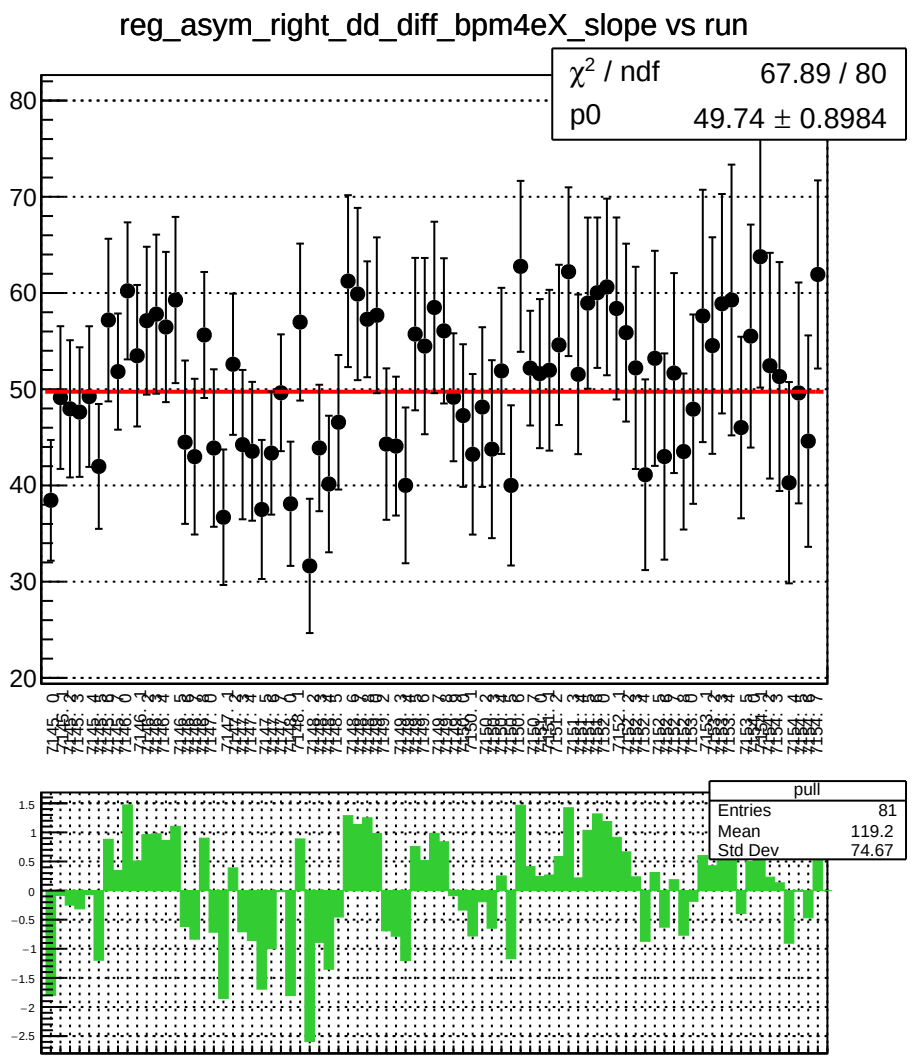

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 50.87 / 80
p0 −19.03 ± 0.03656
pull
Entries 81
Mean −516.7
Std Dev 531.5
pull1D
Entries 81
Mean −0.004657
Std Dev 0.7924

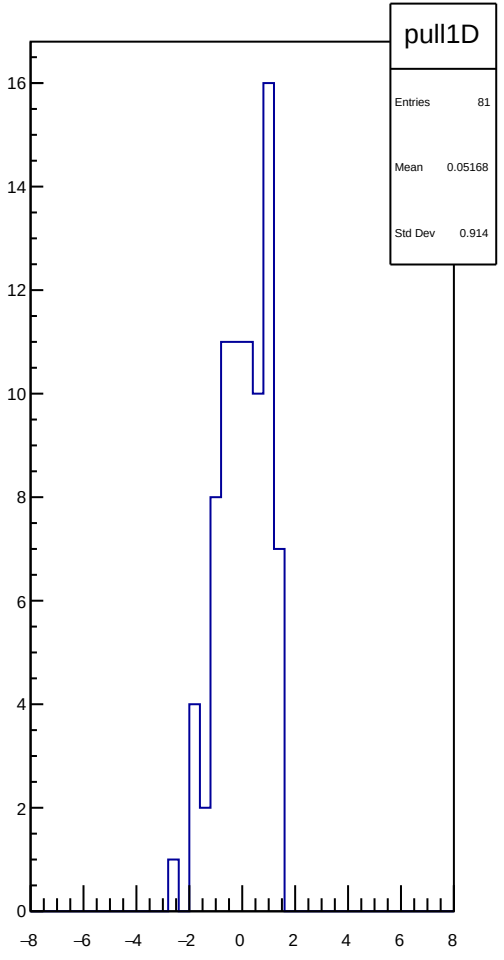

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 65.33 / 80
p0 −20.82 ± 0.8775
pull
Entries 81
Mean 106.8
Std Dev 61.47

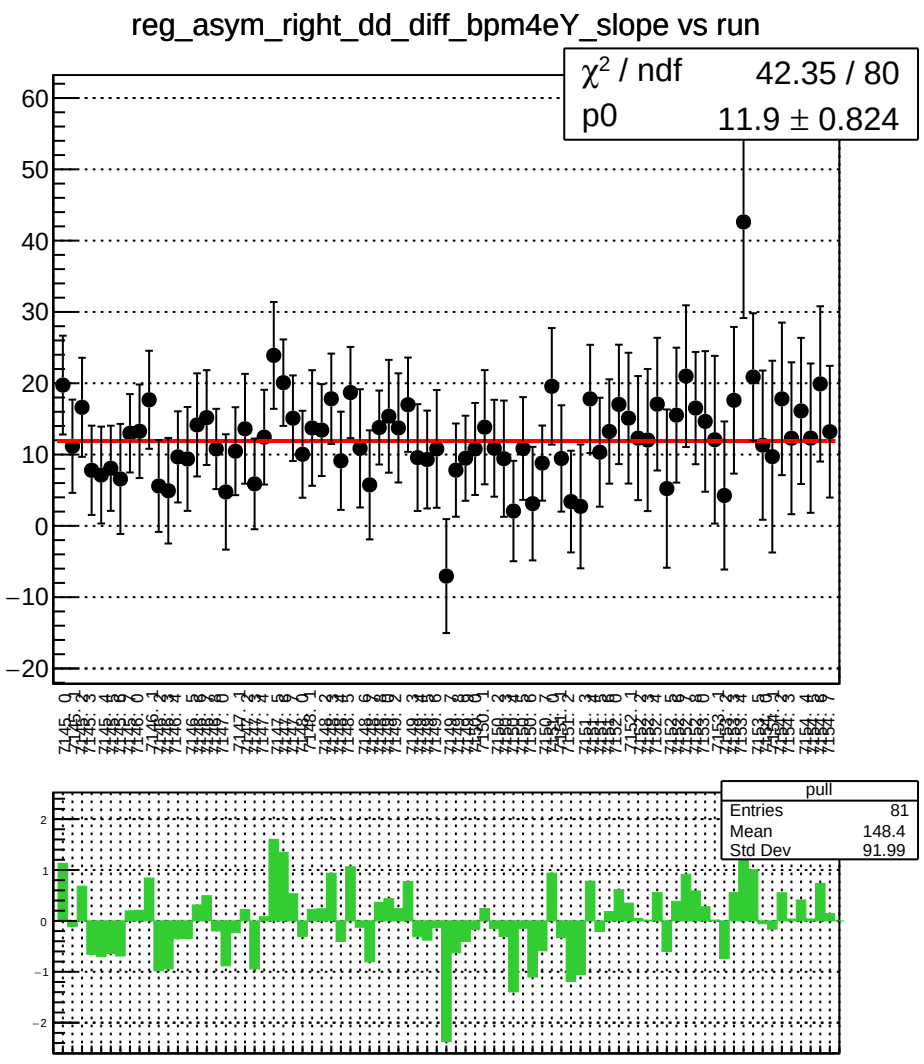

pull1D
Entries 81
Mean −0.04725
Std Dev 0.8968

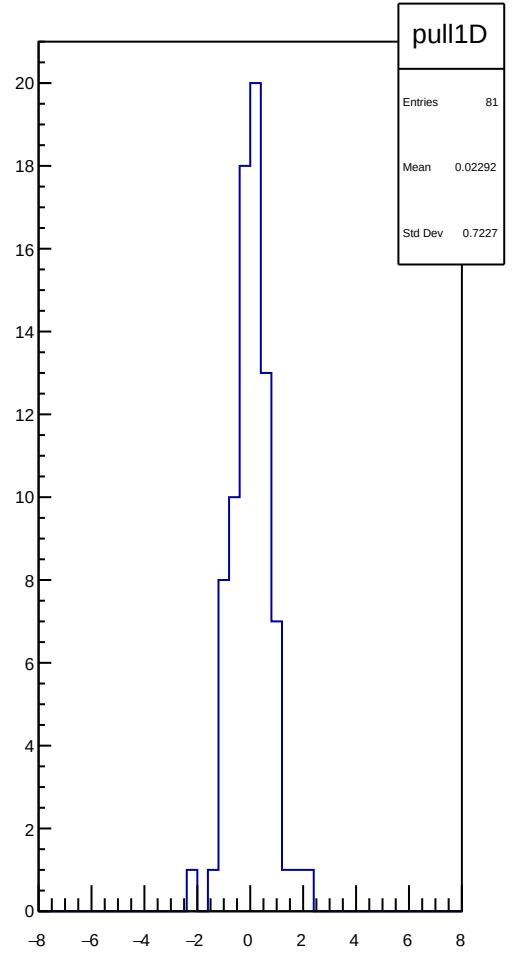

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.55 / 80
p0 −2.748 ± 0.7573
pull
Entries 81
Mean −232.8
Std Dev 206.6

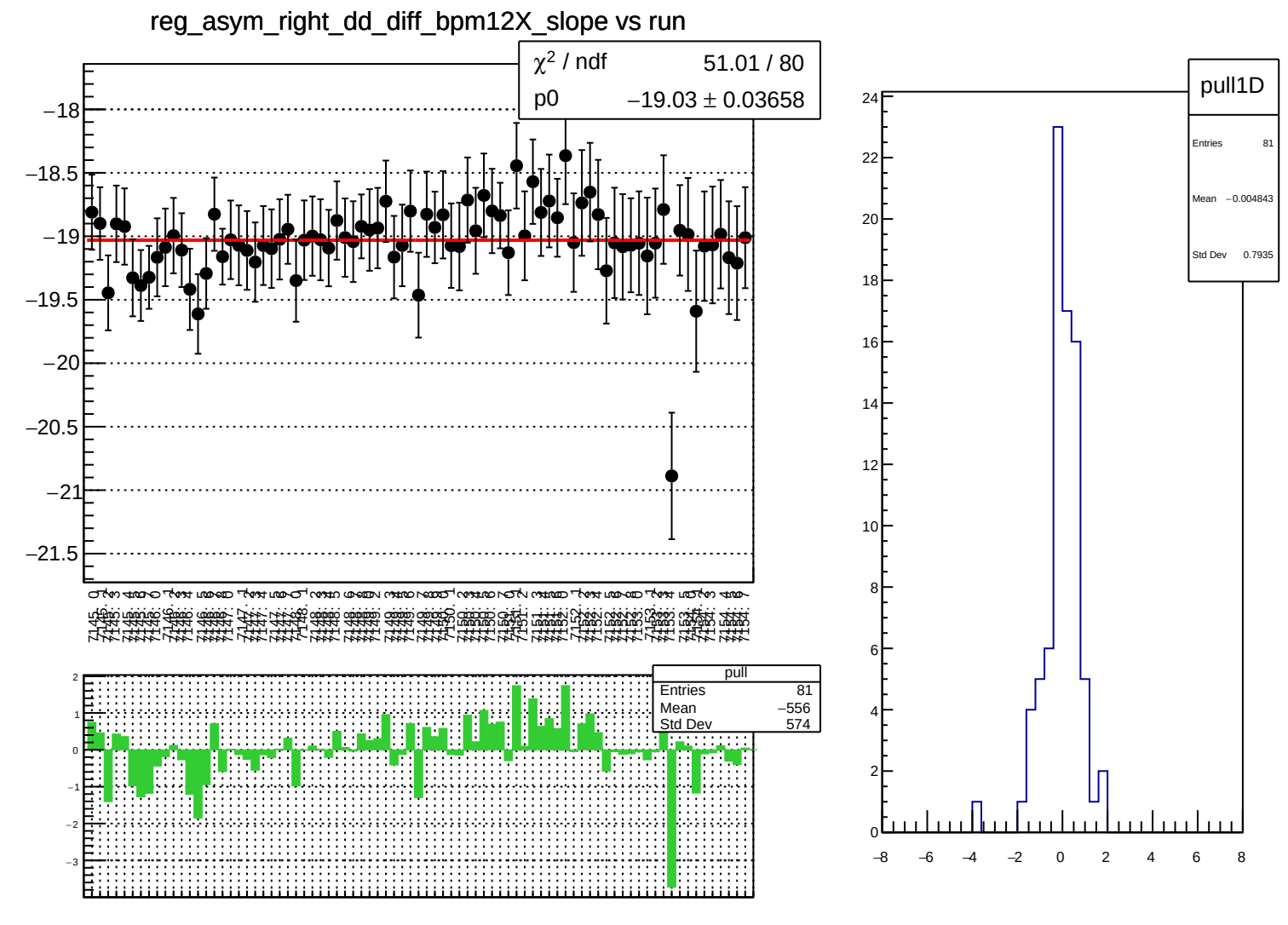

pull1D
Entries 81
Mean −0.001798
Std Dev 0.6717

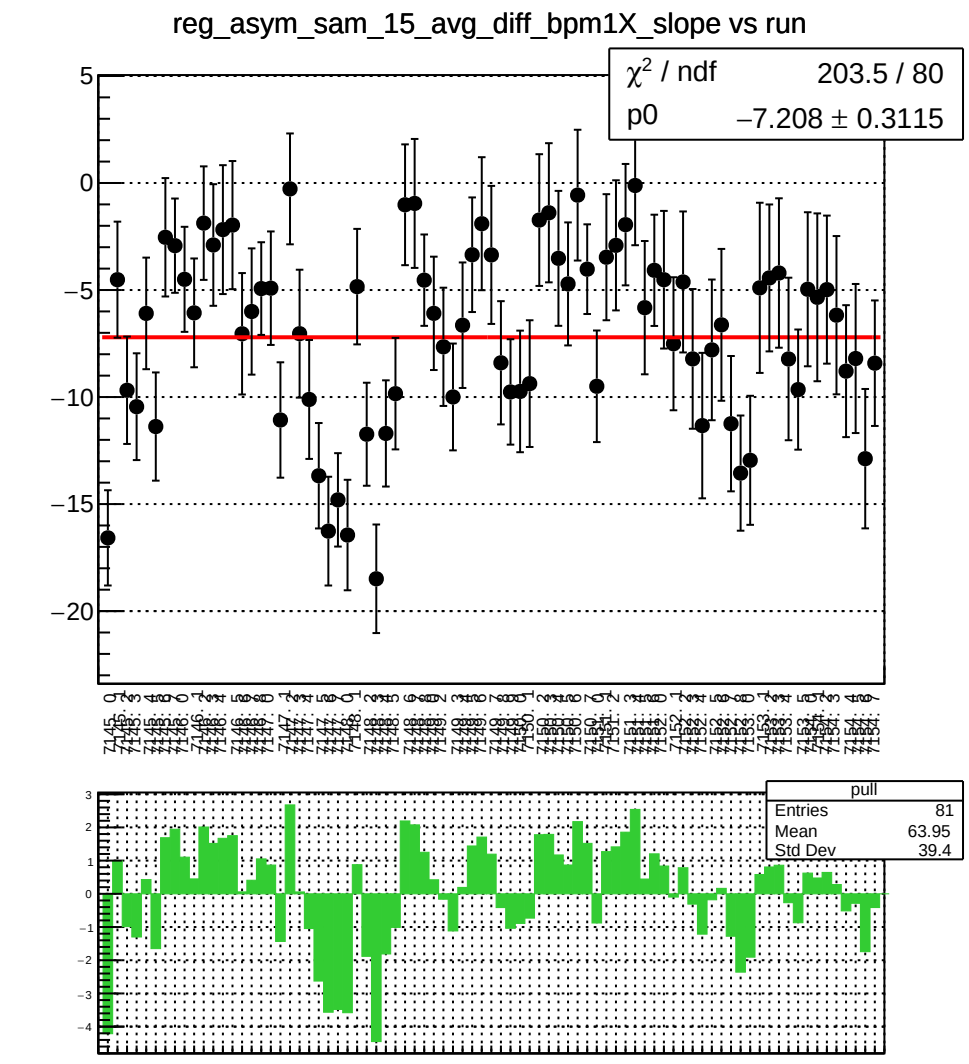

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.89 / 80
p0 49.74 ± 0.8984
pull
Entries 81
Mean 119.2
Std Dev 74.67

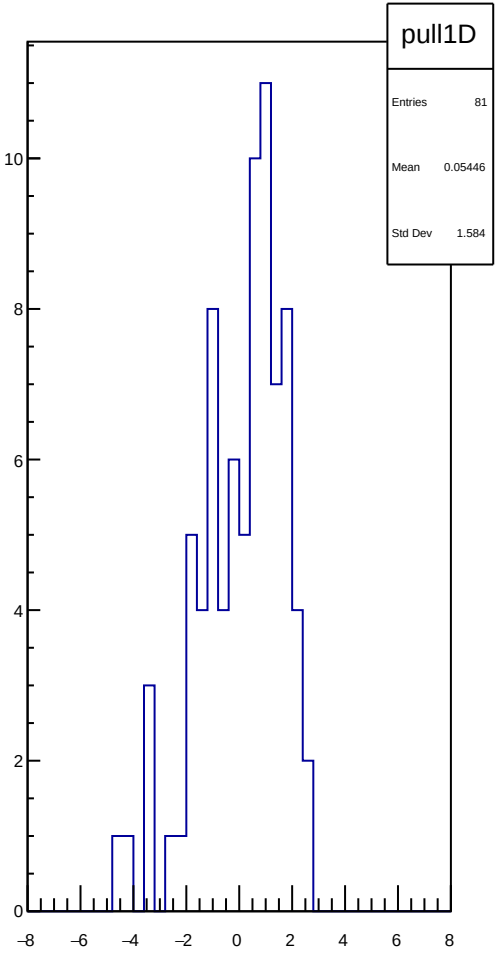

pull1D
Entries 81
Mean 0.05168
Std Dev 0.914

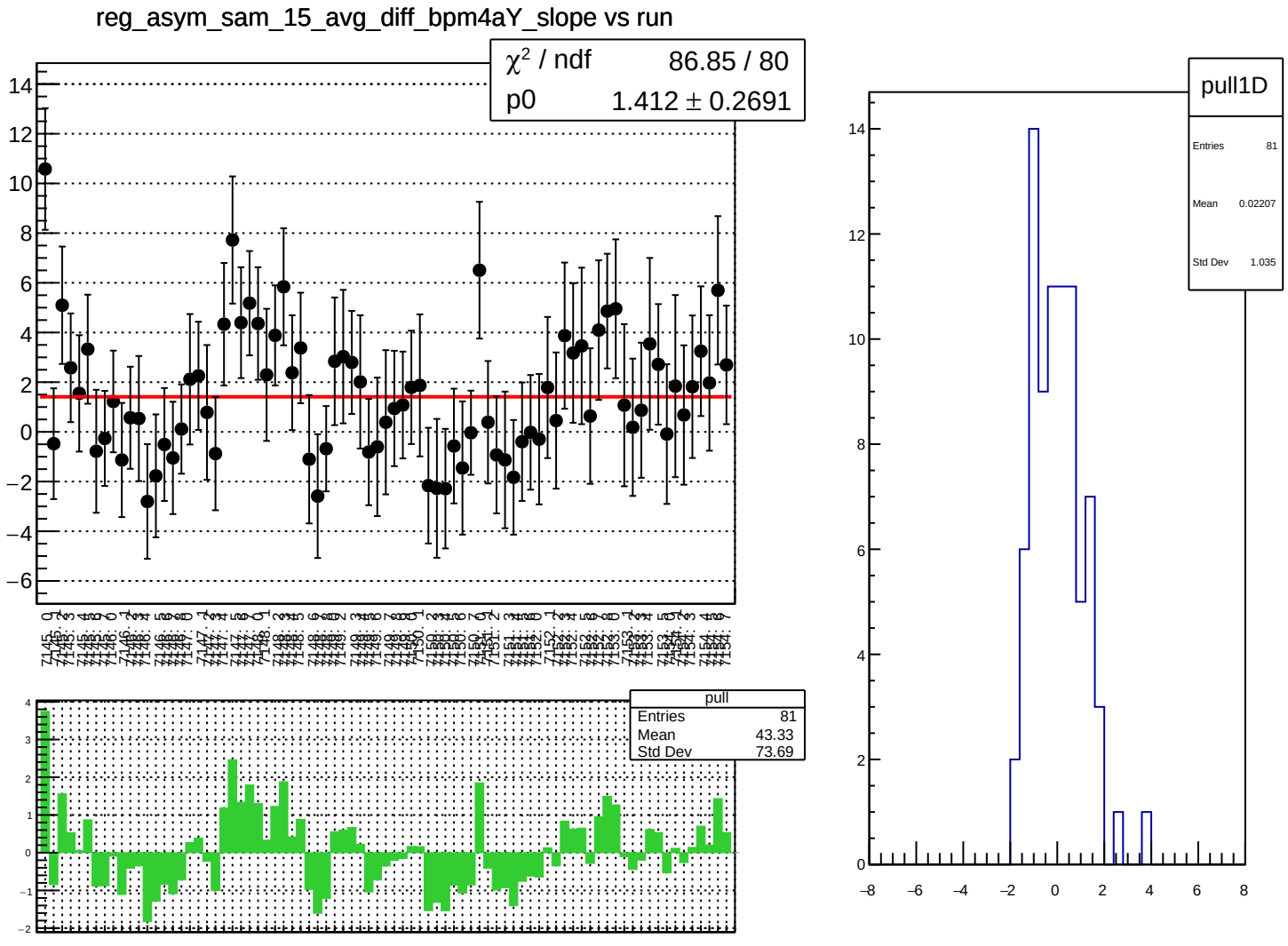

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.35 / 80
p0 11.9 ± 0.824
pull
Entries 81
Mean 148.4
Std Dev 91.99

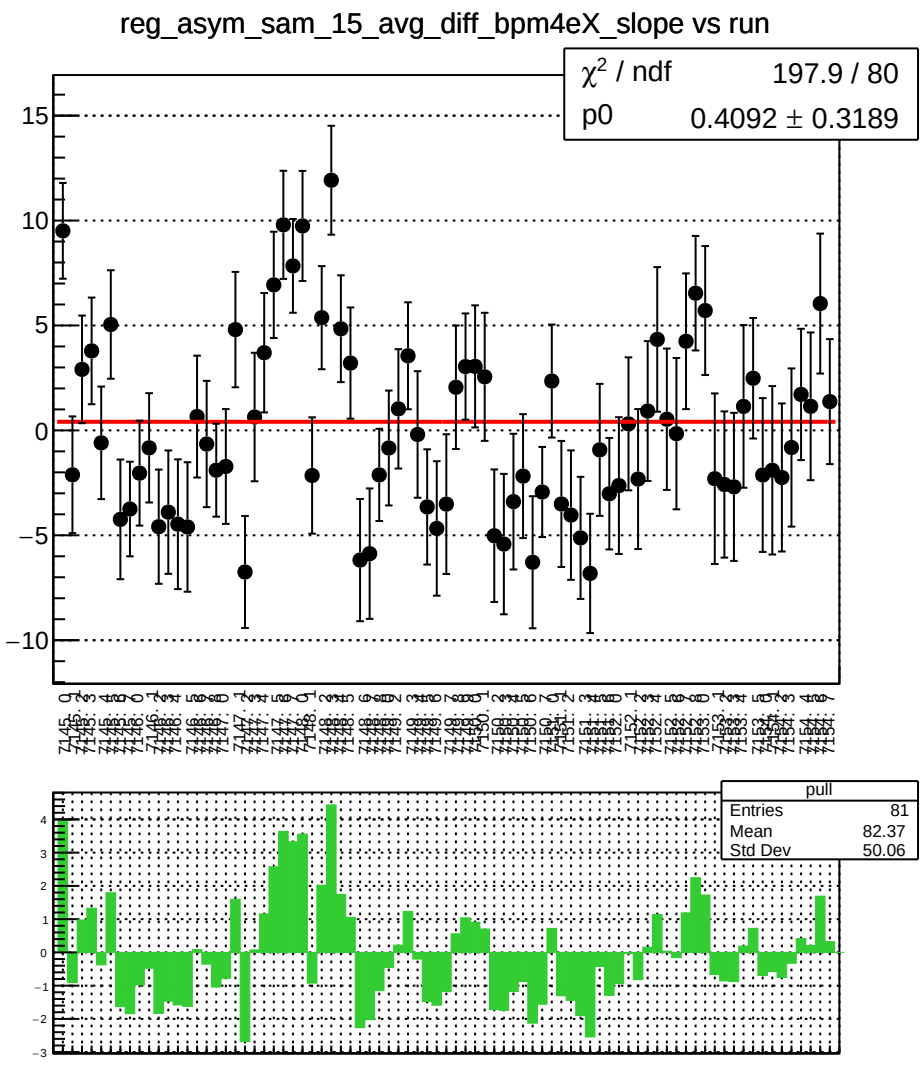

pull1D
Entries 81
Mean 0.02292
Std Dev 0.7227

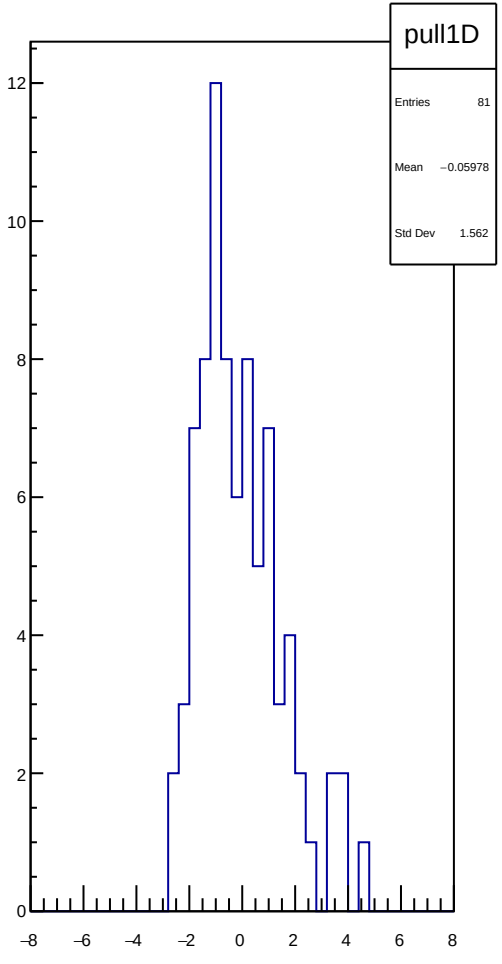

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 51.01 / 80
p0 −19.03 ± 0.03658
pull
Entries 81
Mean −556
Std Dev 574
pull1D
Entries 81
Mean −0.004843
Std Dev 0.7935

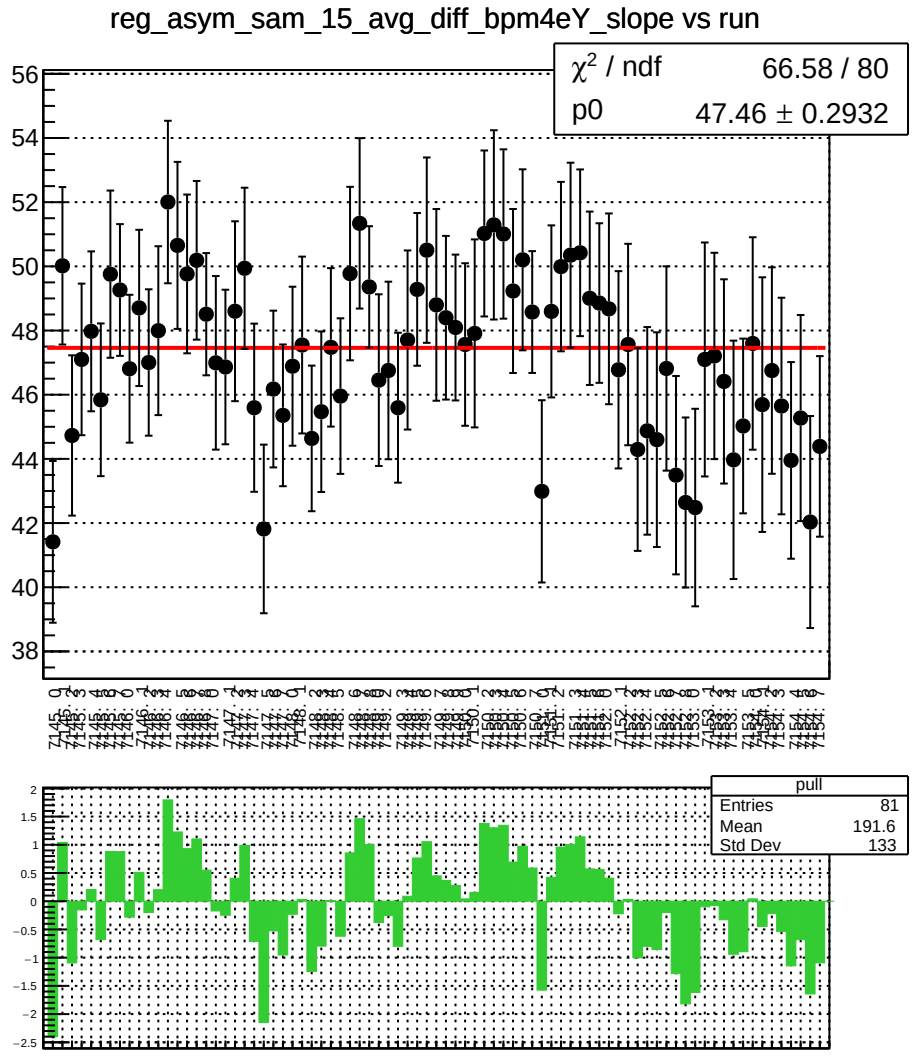

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 203.5 / 80
p0 −7.208 ± 0.3115
pull
Entries 81
Mean 63.95
Std Dev 39.4

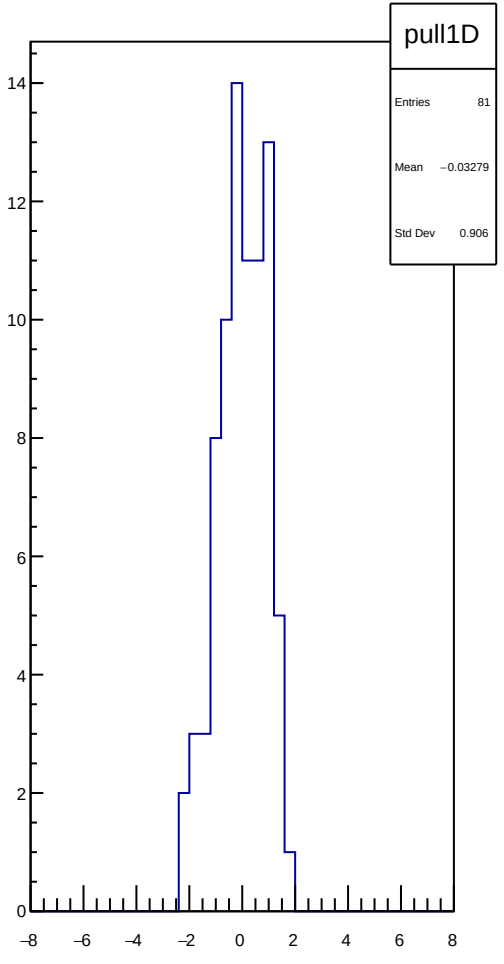

pull1D
Entries 81
Mean 0.05446
Std Dev 1.584

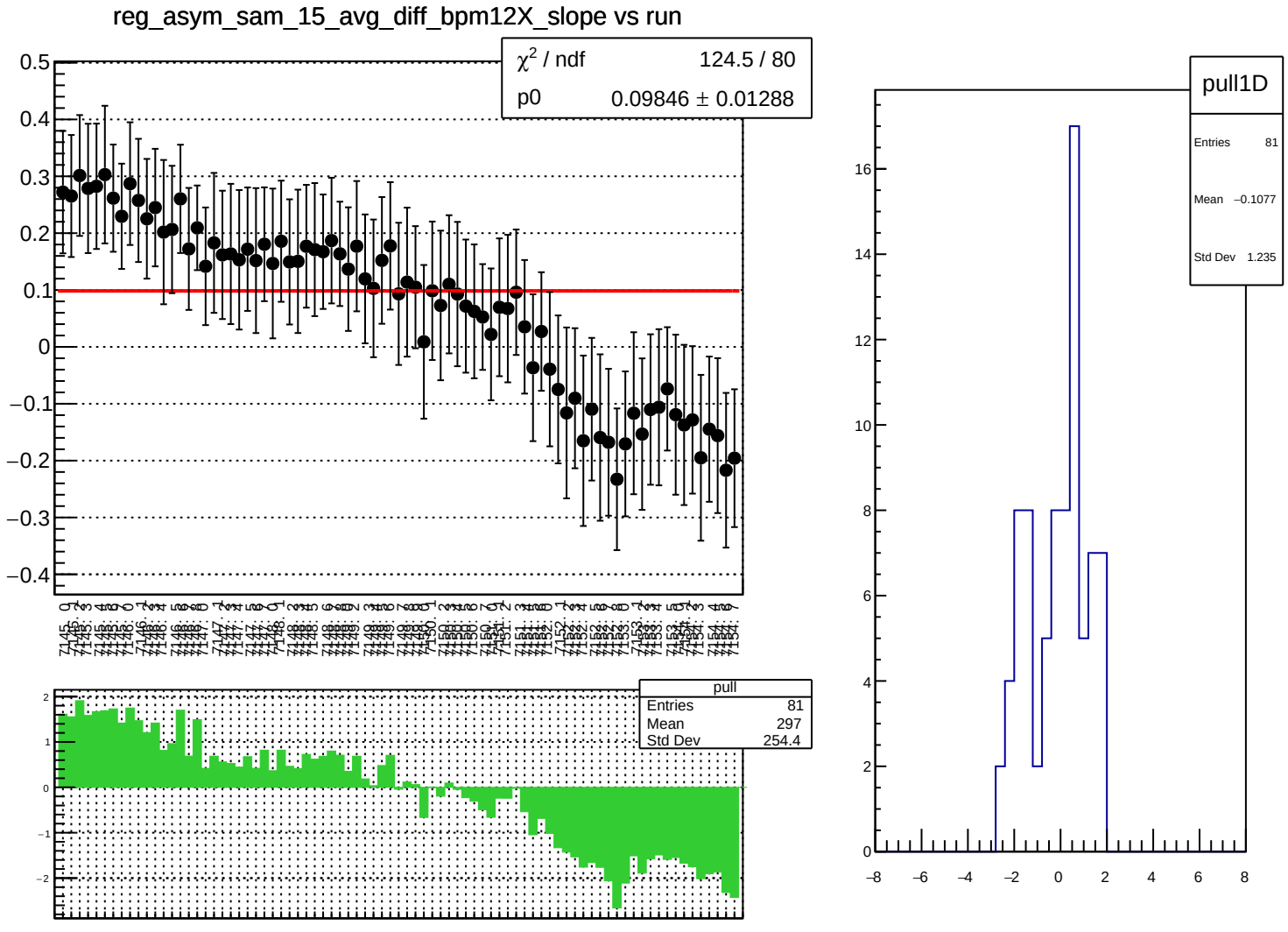

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 86.85 / 80
p0 1.412 ± 0.2691
pull
Entries 81
Mean 43.33
Std Dev 73.69
pull1D
Entries 81
Mean 0.02207
Std Dev 1.035

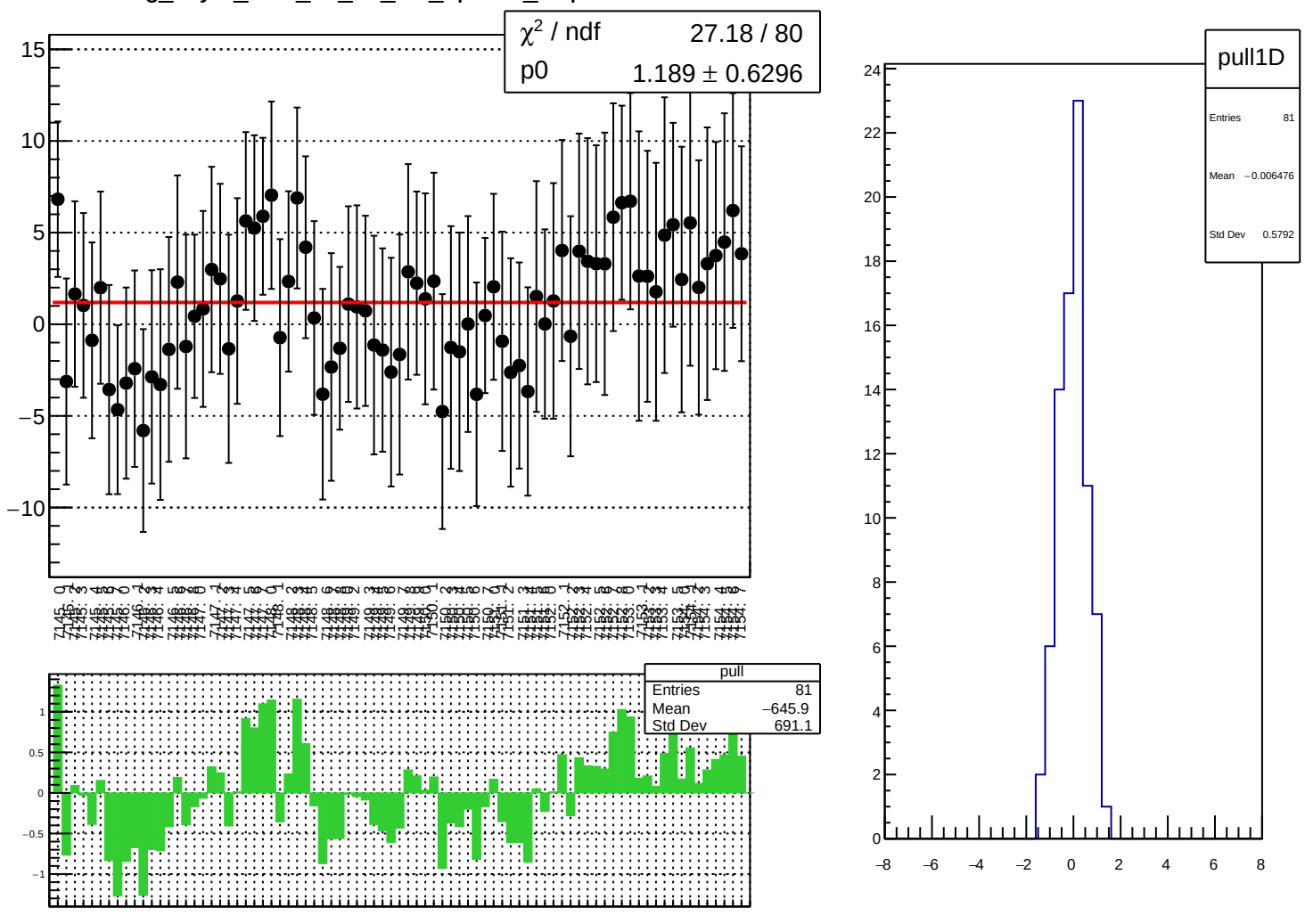

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 197.9 / 80
p0 0.4092 ± 0.3189
pull
Entries 81
Mean 82.37
Std Dev 50.06

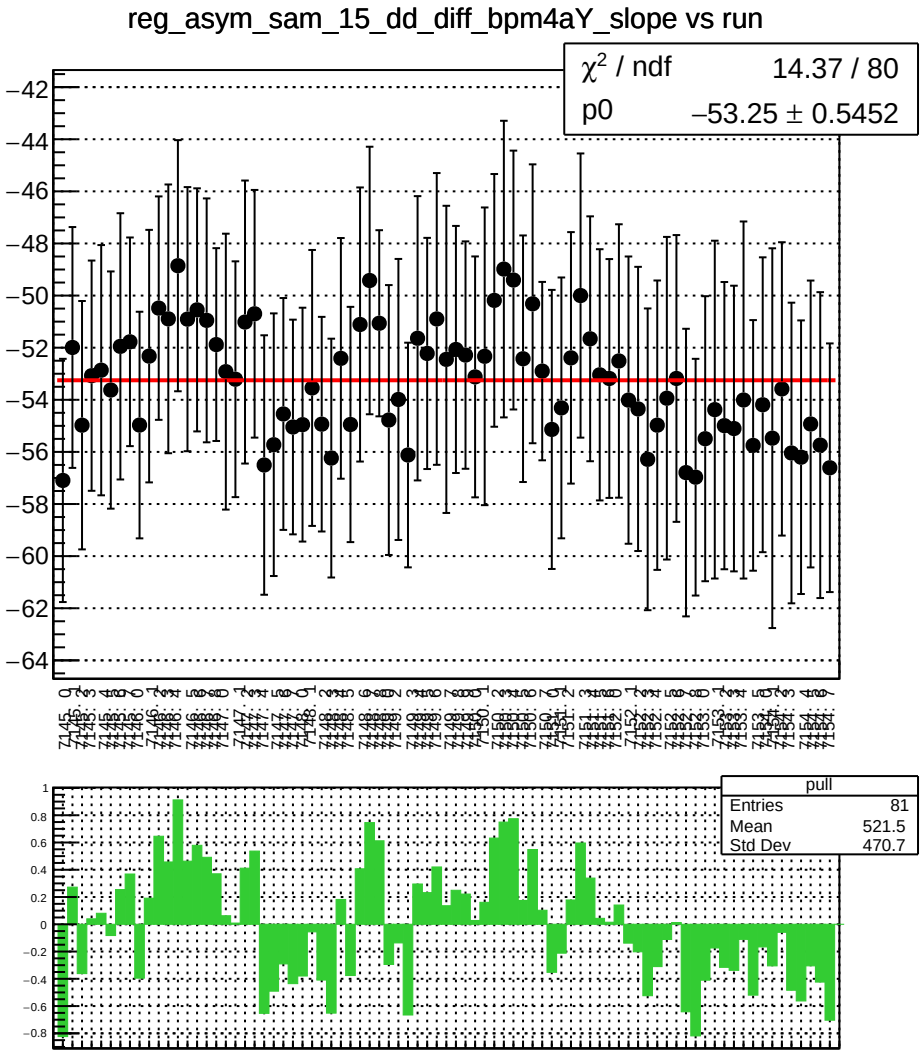

pull1D
Entries 81
Mean −0.05978
Std Dev 1.562

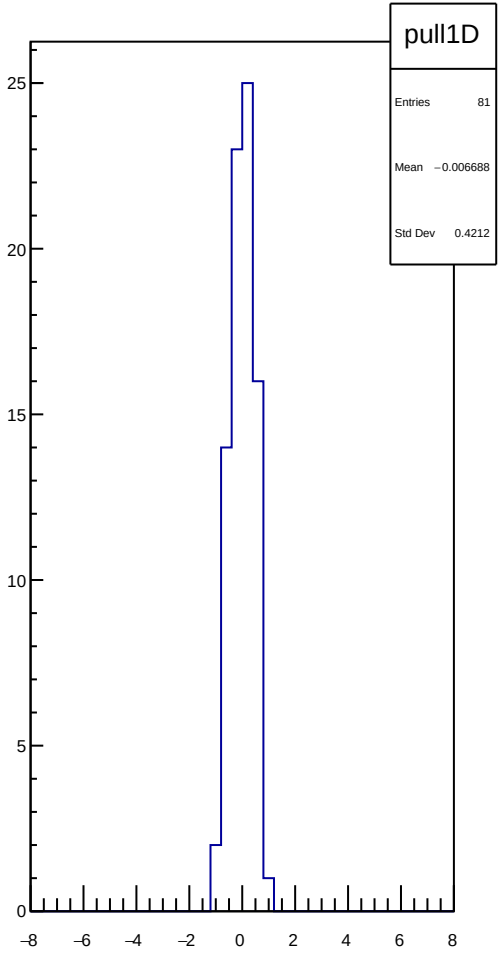

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.58 / 80
p0 47.46 ± 0.2932
pull
Entries 81
Mean 191.6
Std Dev 133

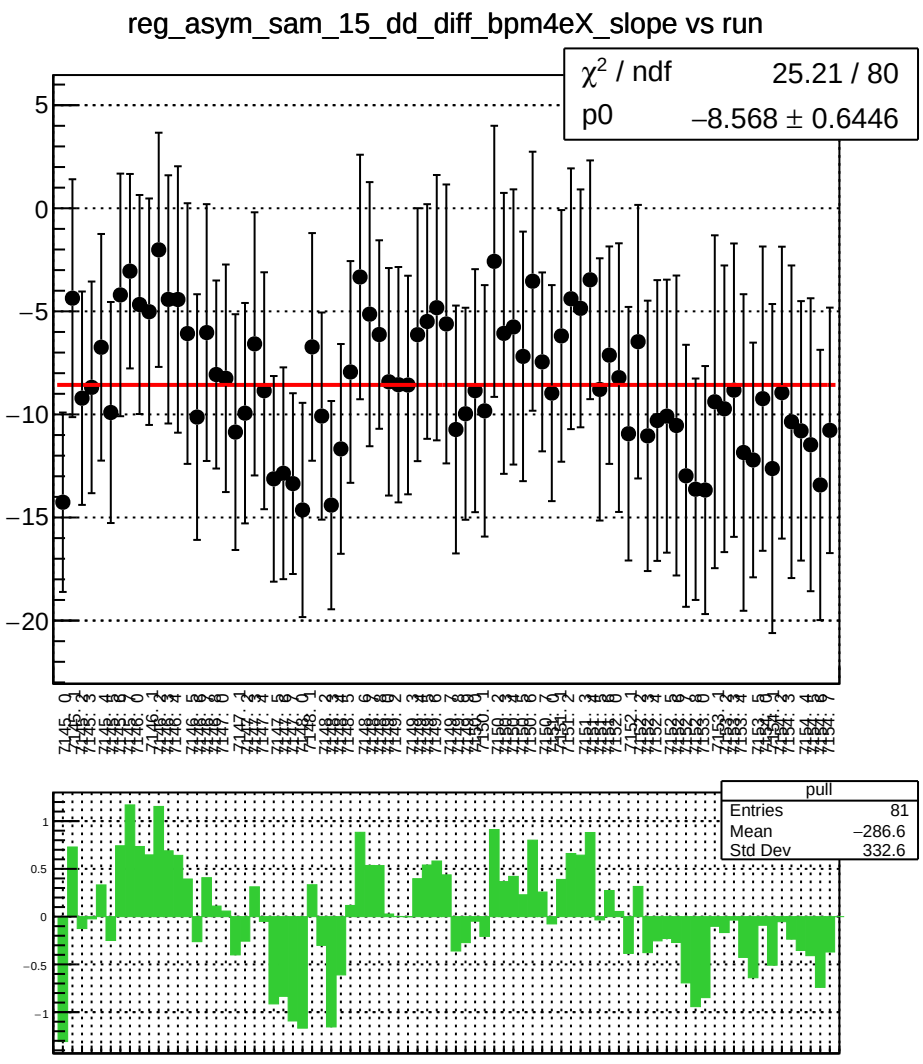

pull1D
Entries 81
Mean −0.03279
Std Dev 0.906

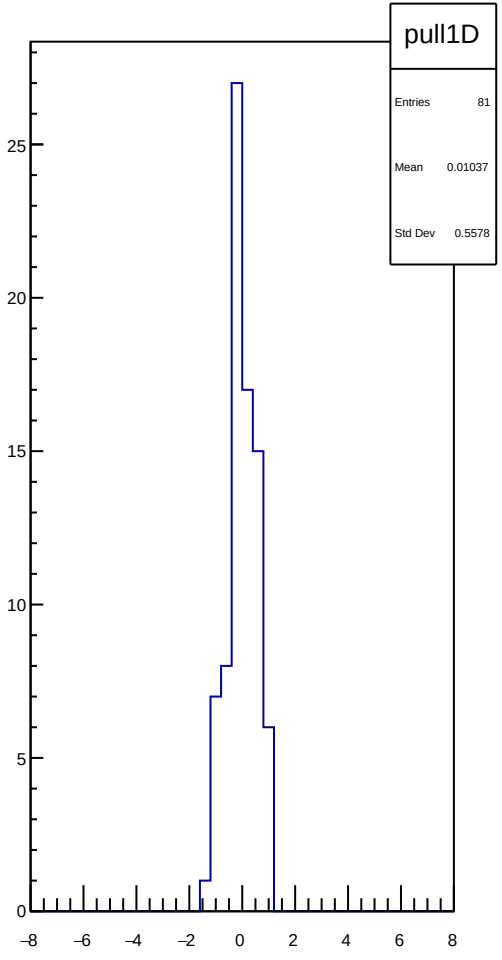

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 124.5 / 80
p0 0.09846 ± 0.01288
pull
Entries 81
Mean 297
Std Dev 254.4
pull1D
Entries 81
Mean −0.1077
Std Dev 1.235

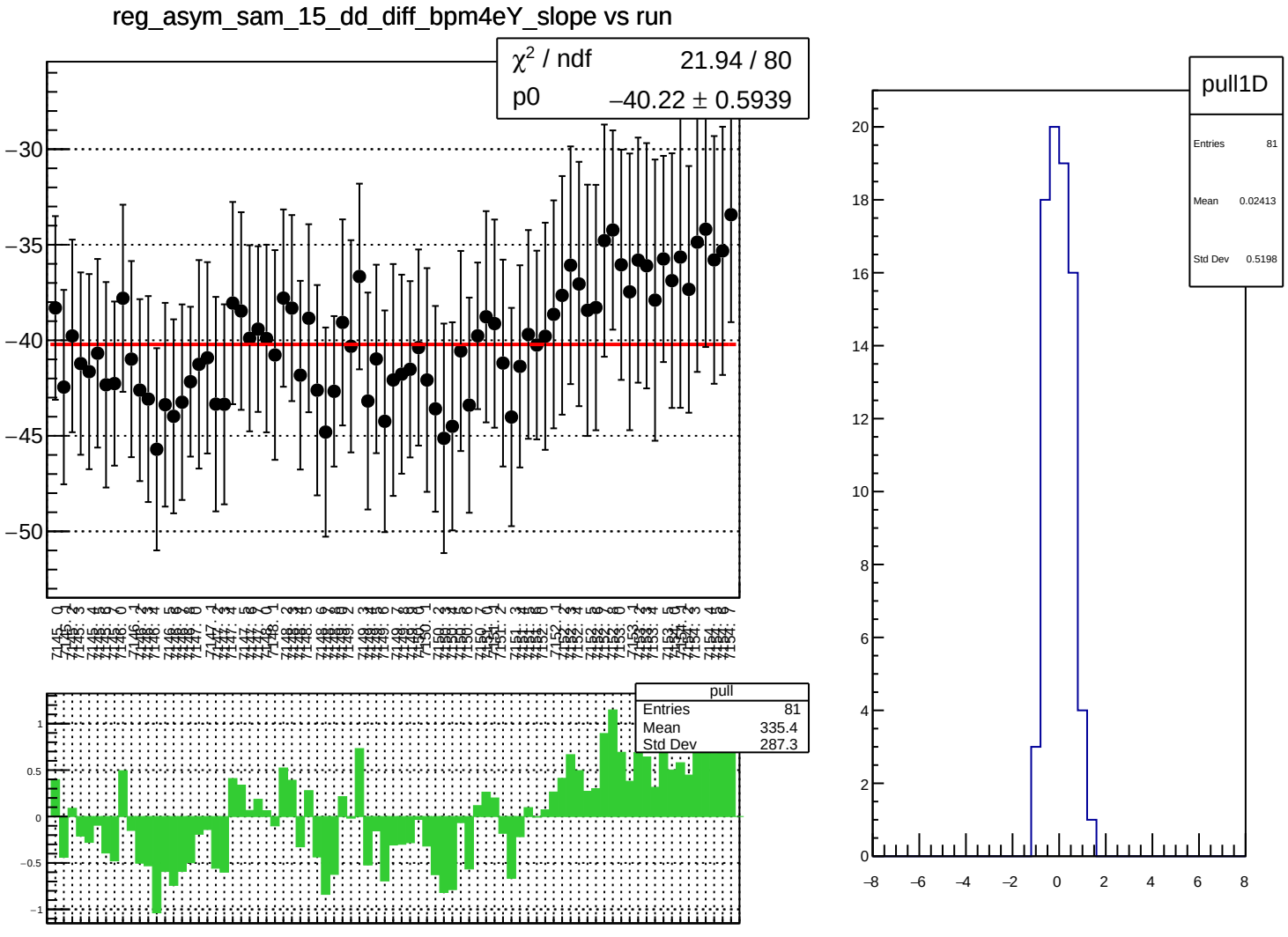

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 27.18 / 80
p0 1.189 ± 0.6296
pull
Entries 81
Mean −645.9
Std Dev 691.1
pull1D
Entries 81
Mean −0.006476
Std Dev 0.5792

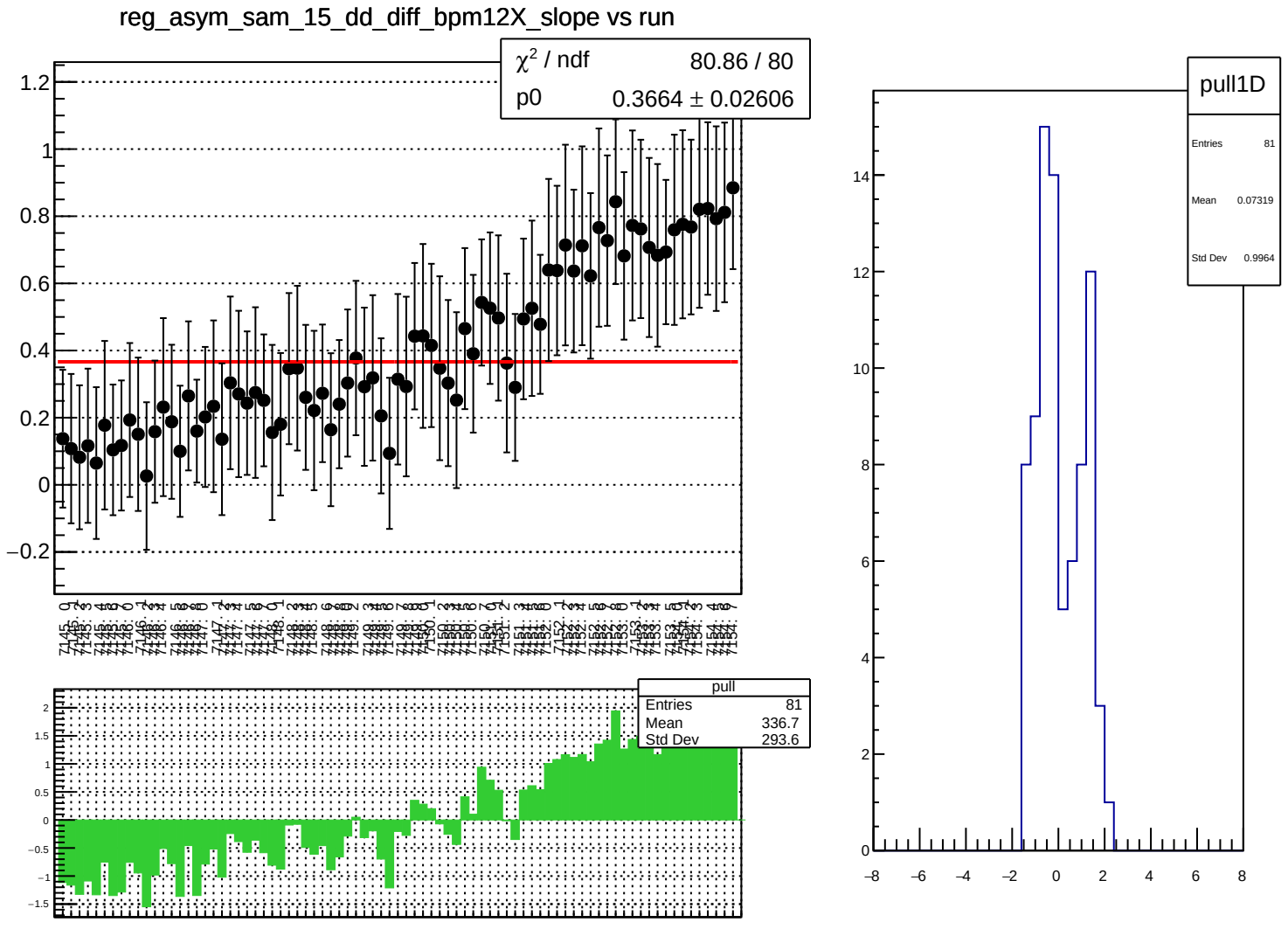

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.37 / 80
p0 −53.25 ± 0.5452
pull
Entries 81
Mean 521.5
Std Dev 470.7

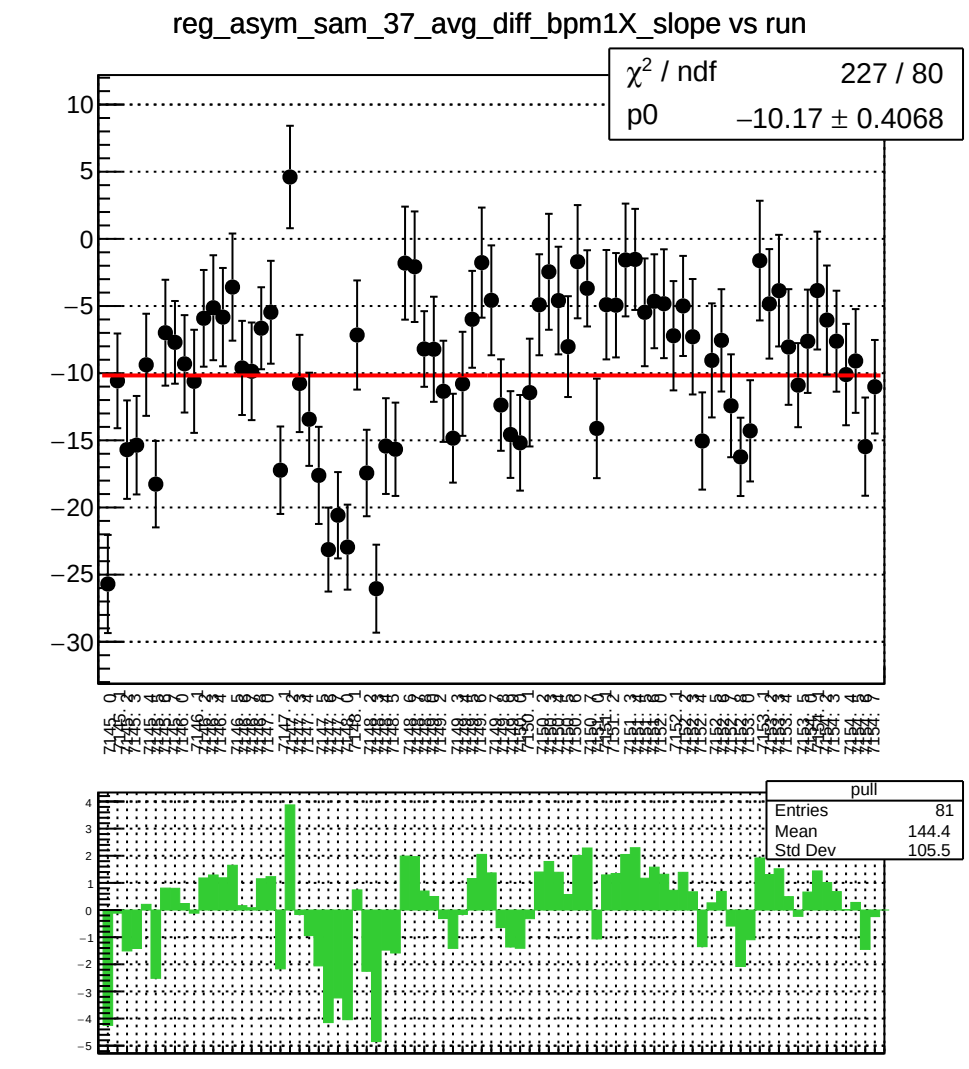

pull1D
Entries 81
Mean −0.006688
Std Dev 0.4212

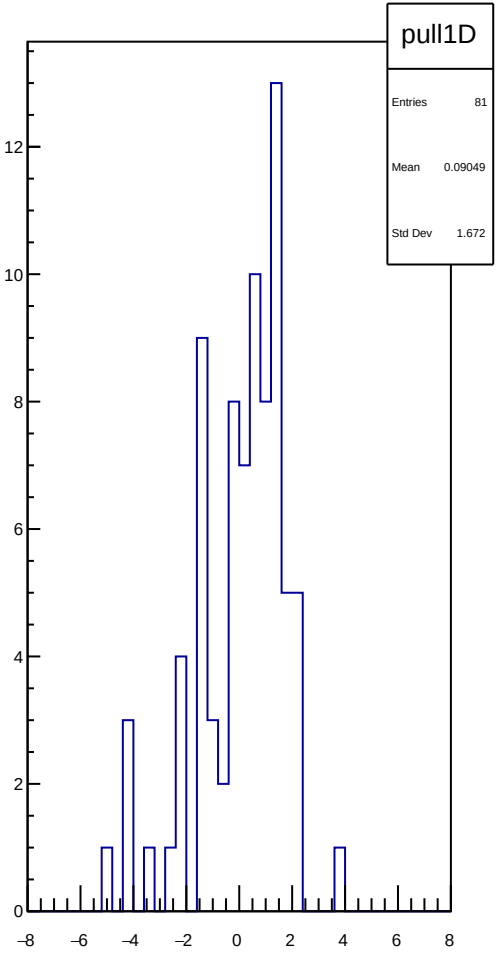

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.21 / 80
p0 −8.568 ± 0.6446
pull
Entries 81
Mean −286.6
Std Dev 332.6

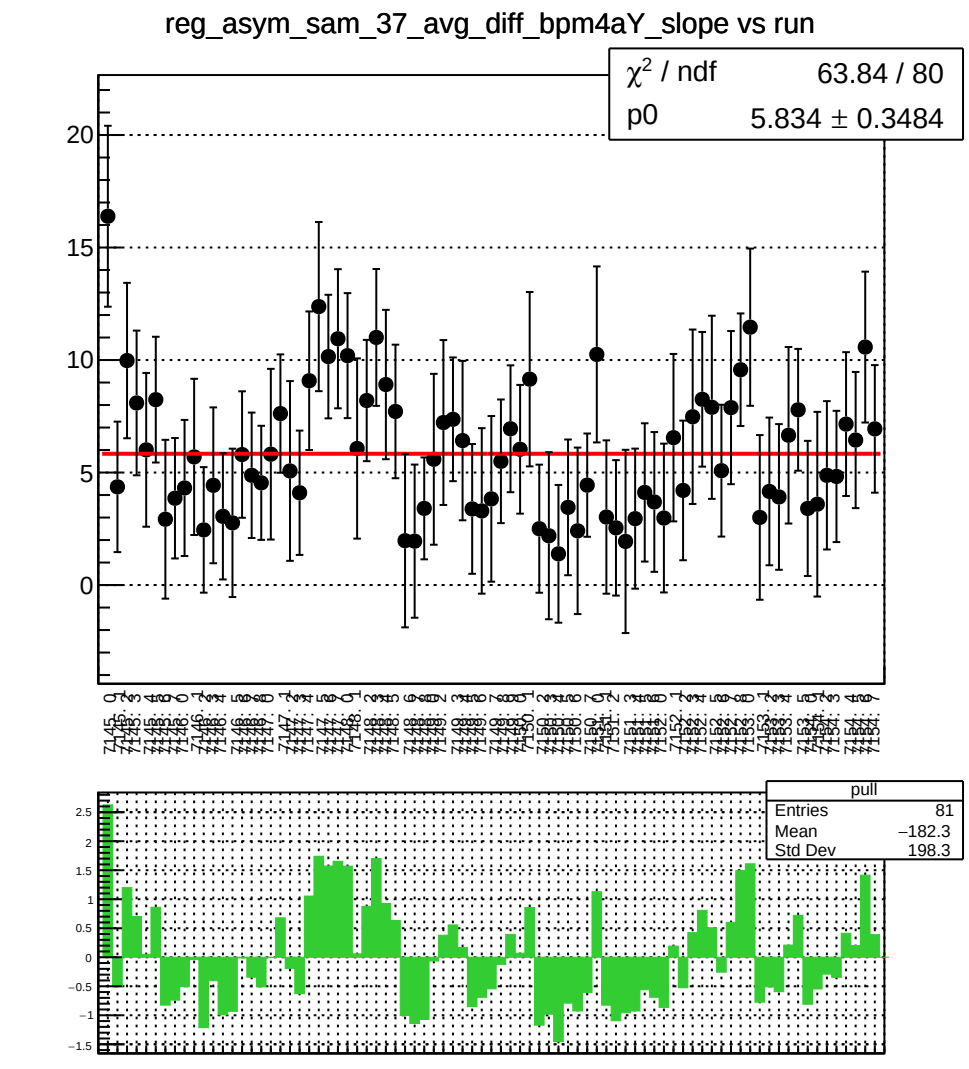

pull1D
Entries 81
Mean 0.01037
Std Dev 0.5578

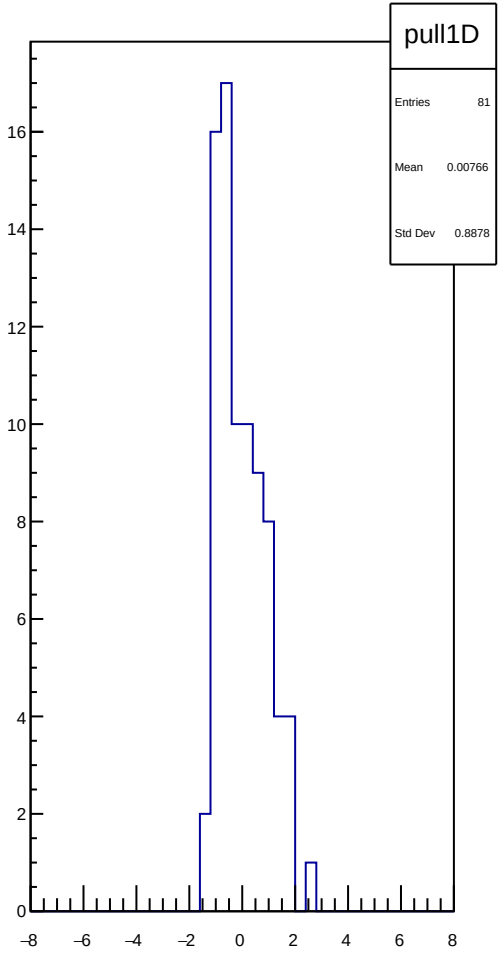

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.94 / 80
p0 −40.22 ± 0.5939
pull
Entries 81
Mean 335.4
Std Dev 287.3
pull1D
Entries 81
Mean 0.02413
Std Dev 0.5198

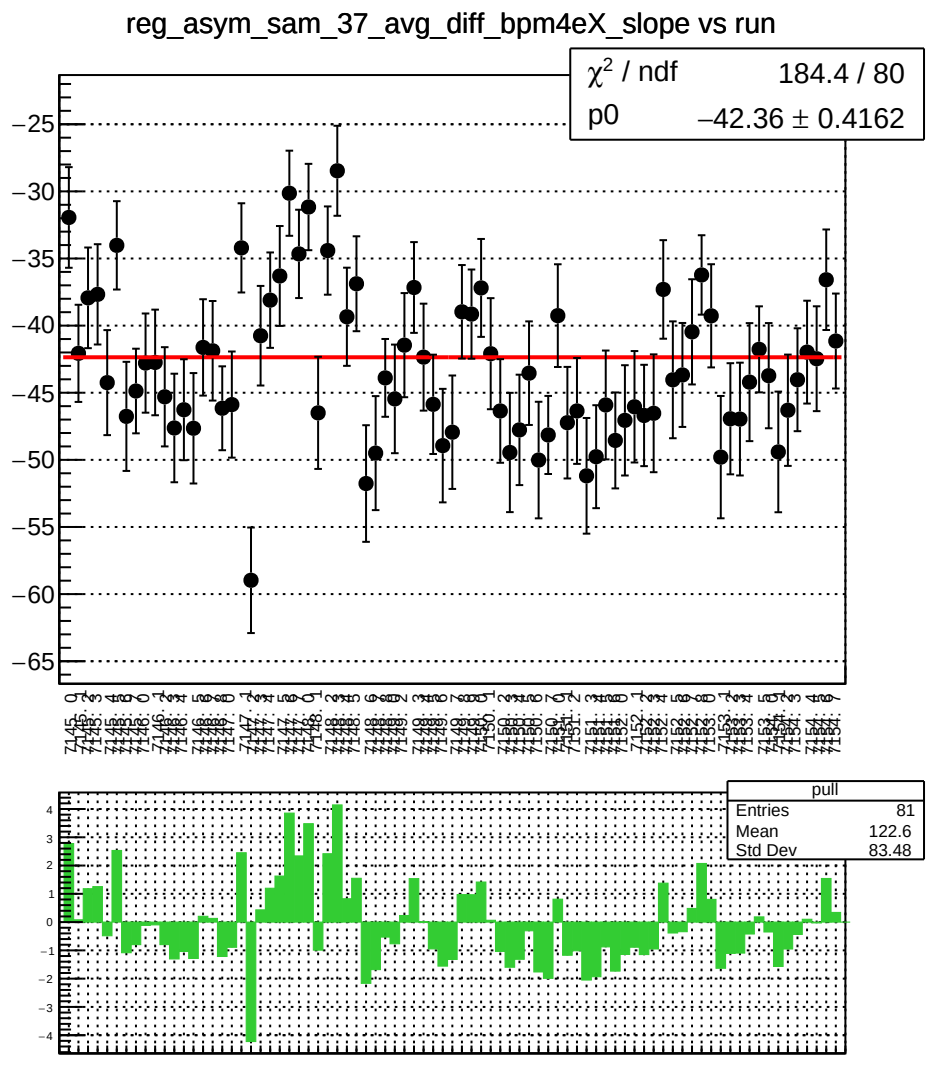

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 80.86 / 80
p0 0.3664 ± 0.02606
pull
Entries 81
Mean 336.7
Std Dev 293.6
pull1D
Entries 81
Mean 0.07319
Std Dev 0.9964

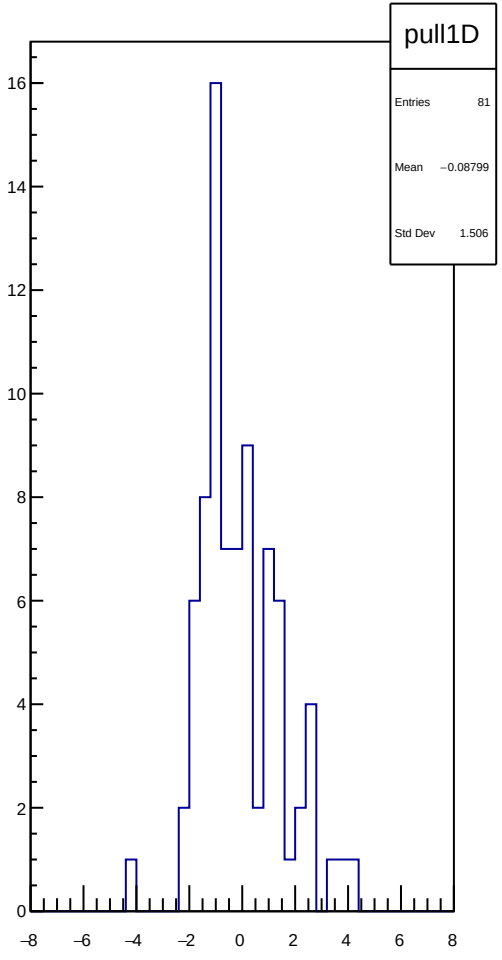

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 227 / 80
p0 −10.17 ± 0.4068
pull
Entries 81
Mean 144.4
Std Dev 105.5

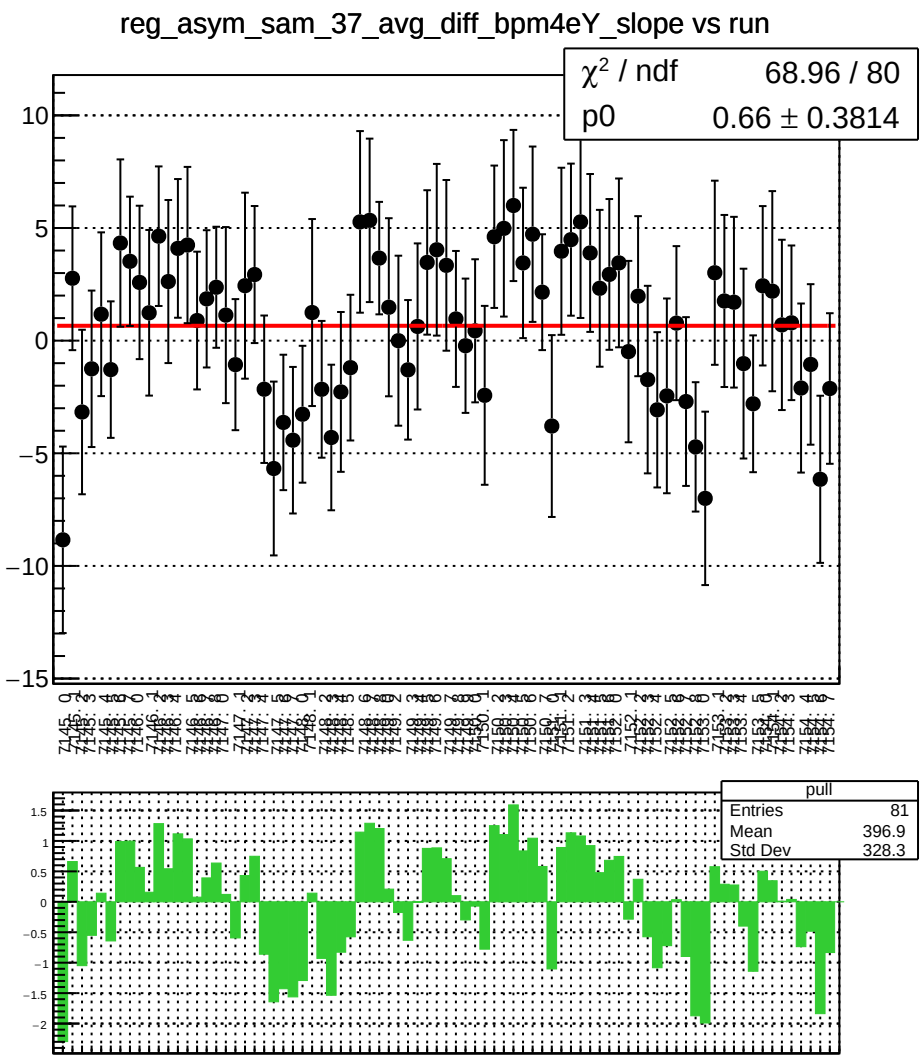

pull1D
Entries 81
Mean 0.09049
Std Dev 1.672

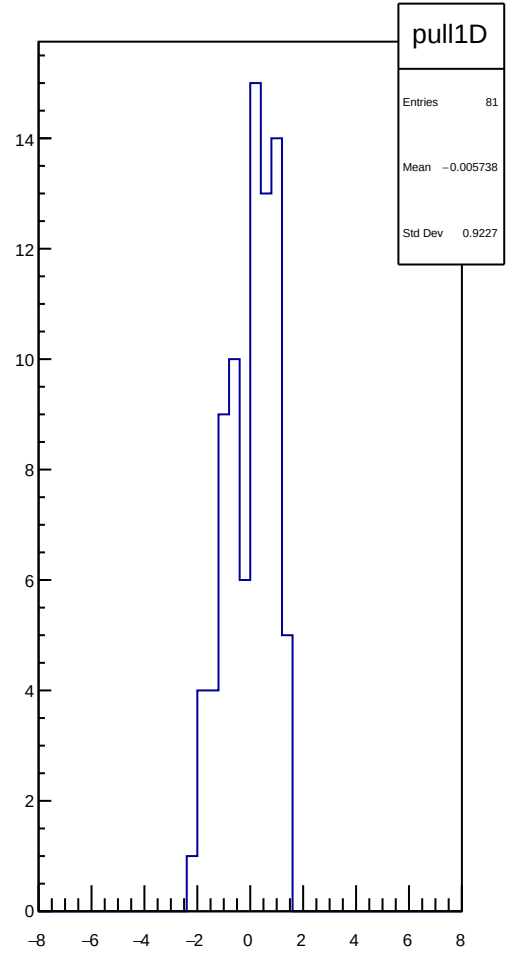

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 63.84 / 80
p0 5.834 ± 0.3484
pull
Entries 81
Mean −182.3
Std Dev 198.3

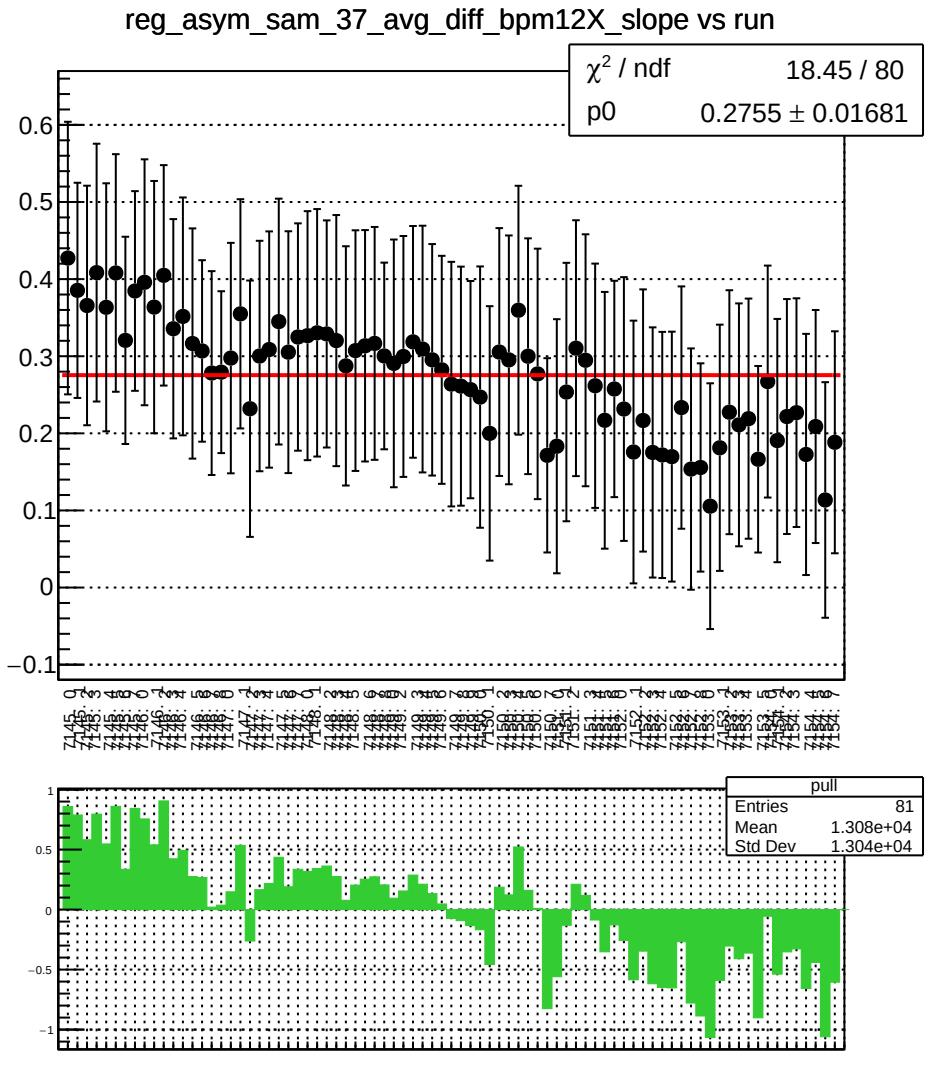

pull1D
Entries 81
Mean 0.00766
Std Dev 0.8878

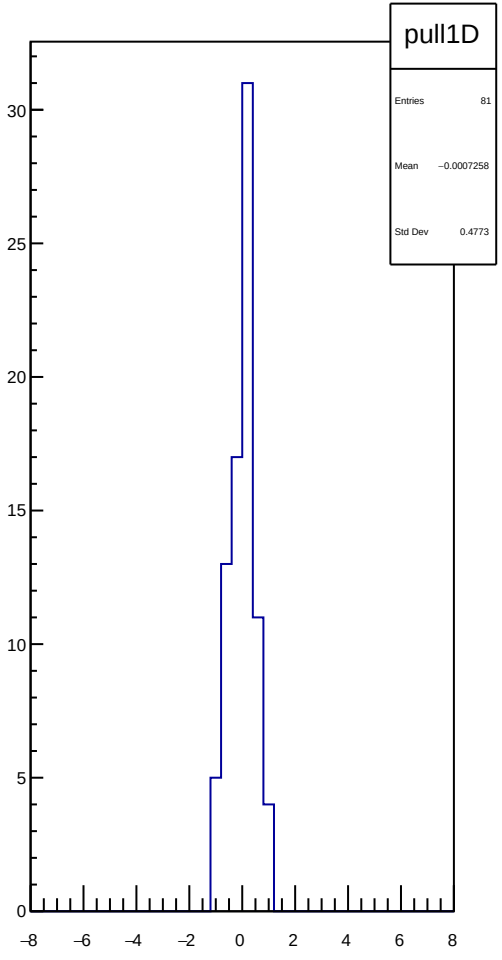

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 184.4 / 80
p0 −42.36 ± 0.4162
pull
Entries 81
Mean 122.6
Std Dev 83.48

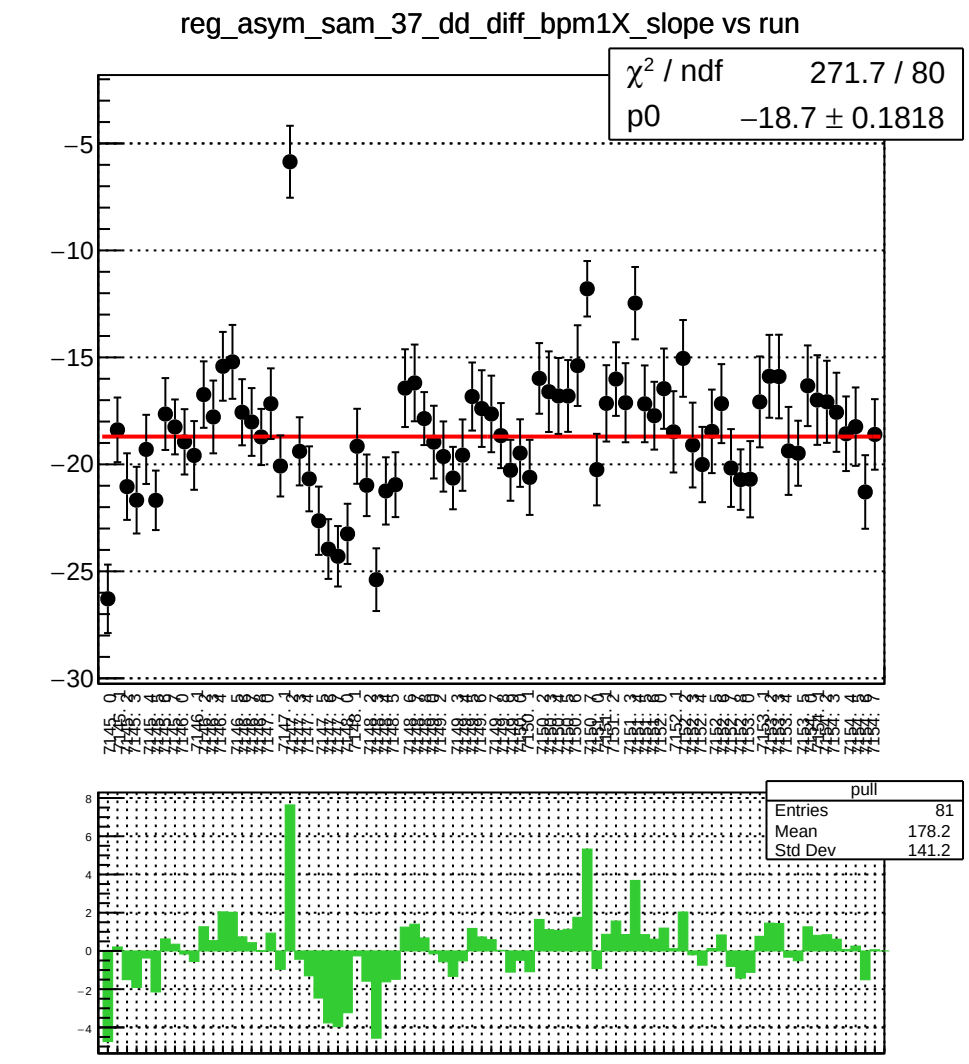

pull1D
Entries 81
Mean −0.08799
Std Dev 1.506

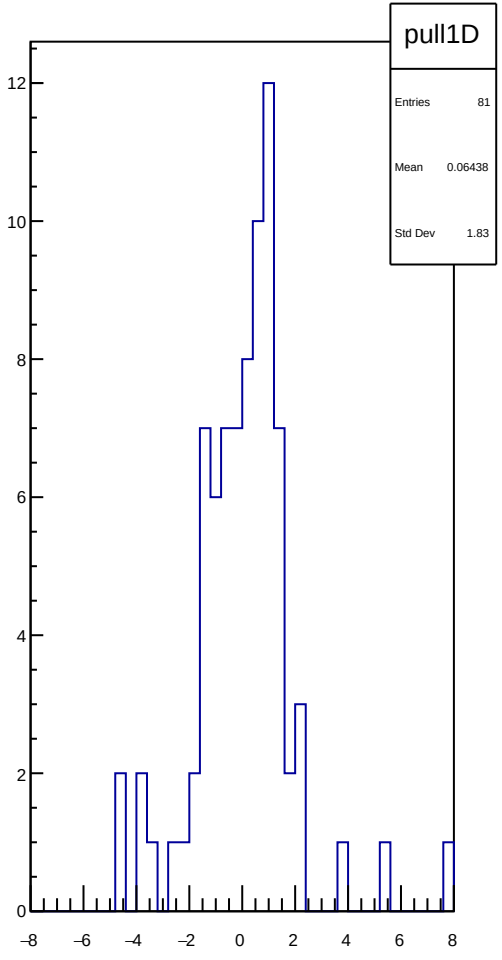

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 68.96 / 80
p0 0.66 ± 0.3814
pull
Entries 81
Mean 396.9
Std Dev 328.3

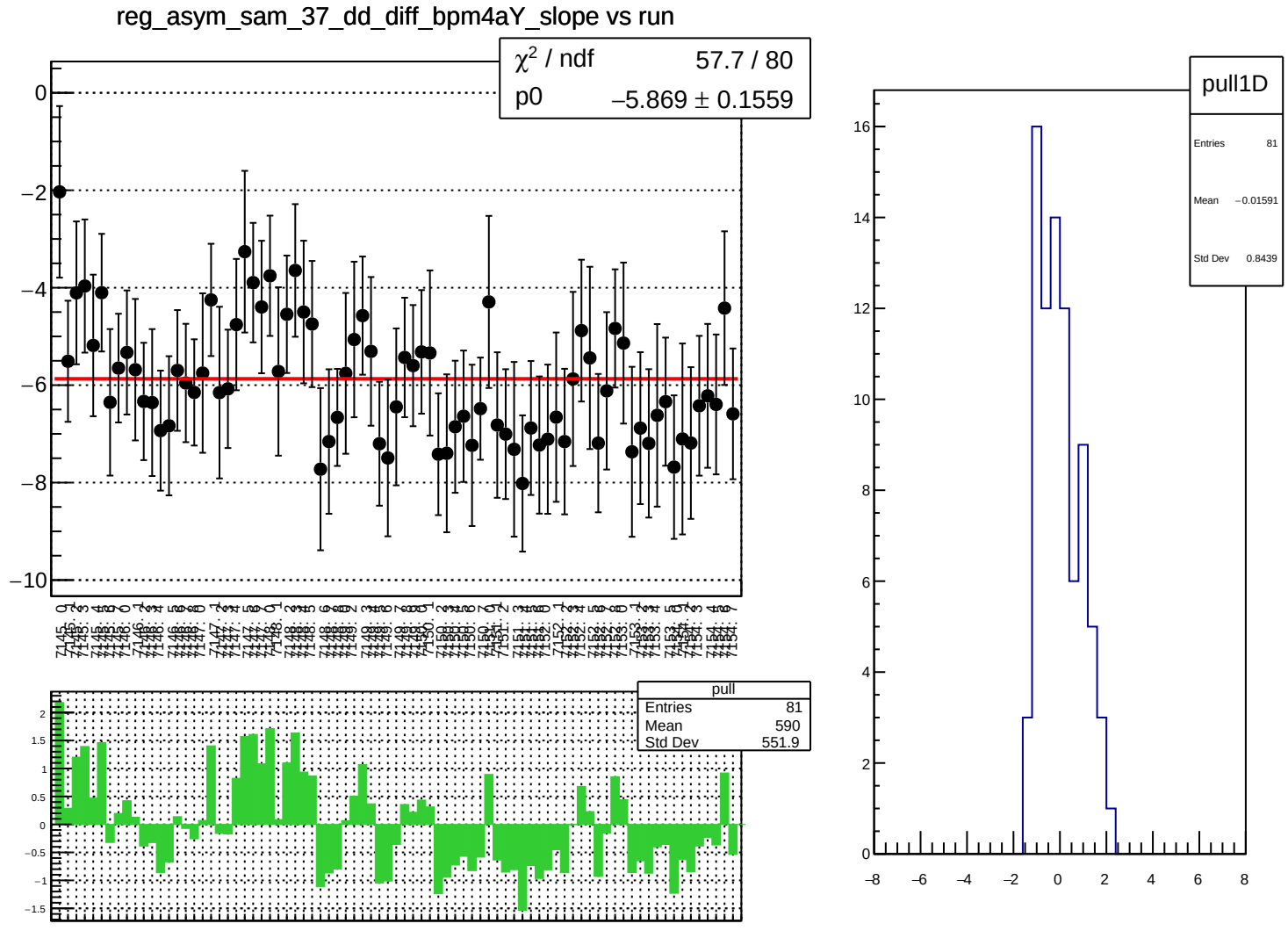

pull1D
Entries 81
Mean −0.005738
Std Dev 0.9227

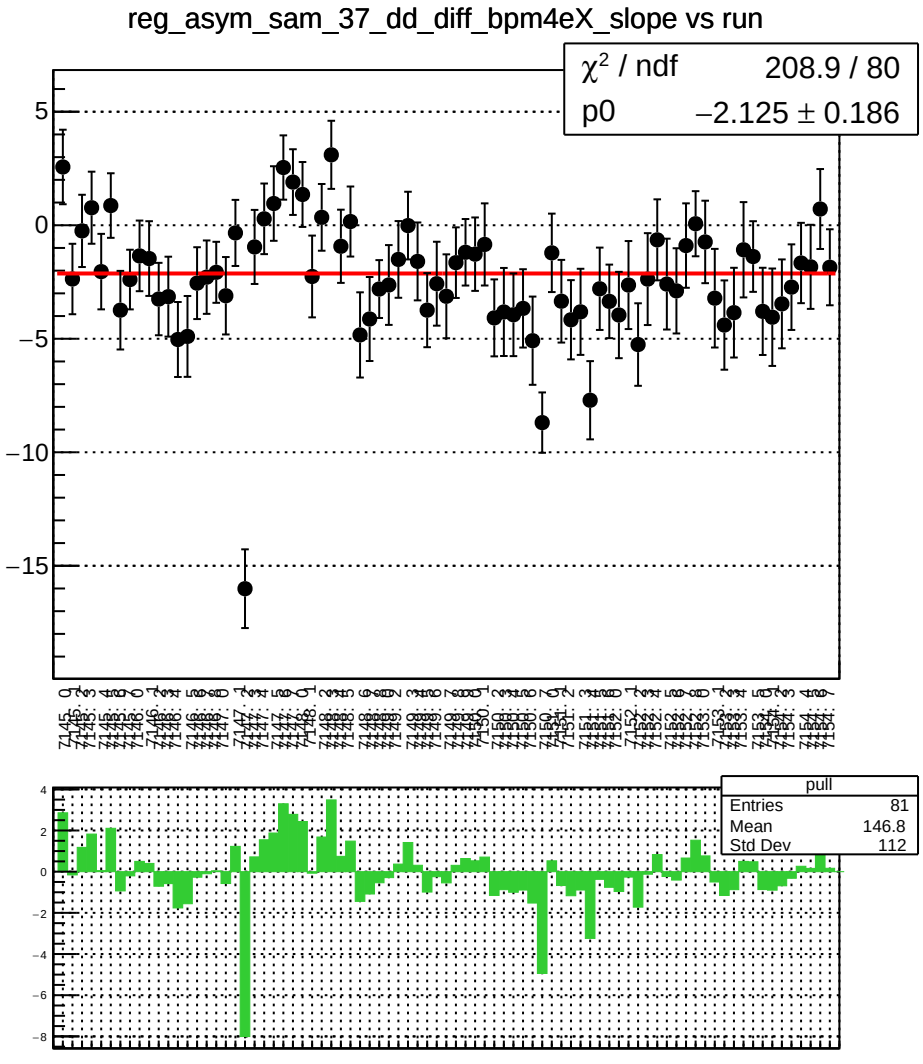

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 18.45 / 80
p0 0.2755 ± 0.01681
pull
Entries 81
Mean 1.308e+04
Std Dev 1.304e+04

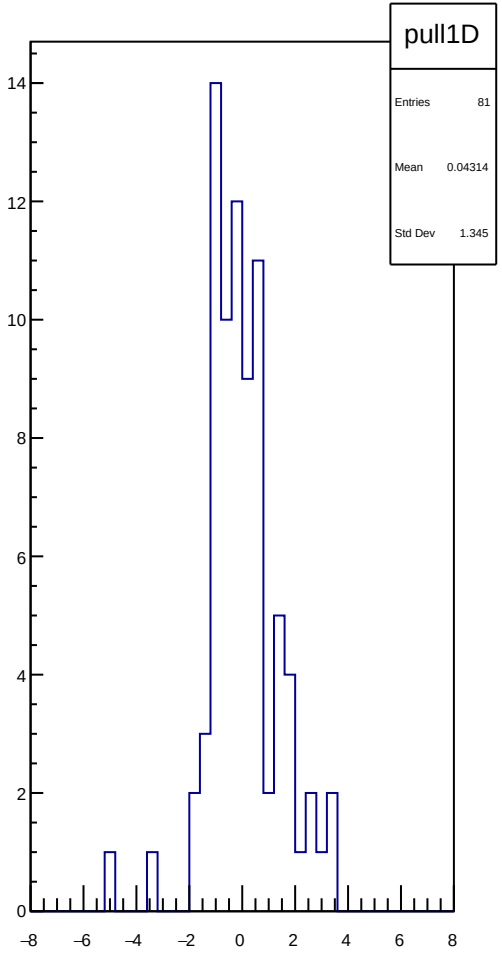

pull1D
Entries 81
Mean −0.0007258
Std Dev 0.4773

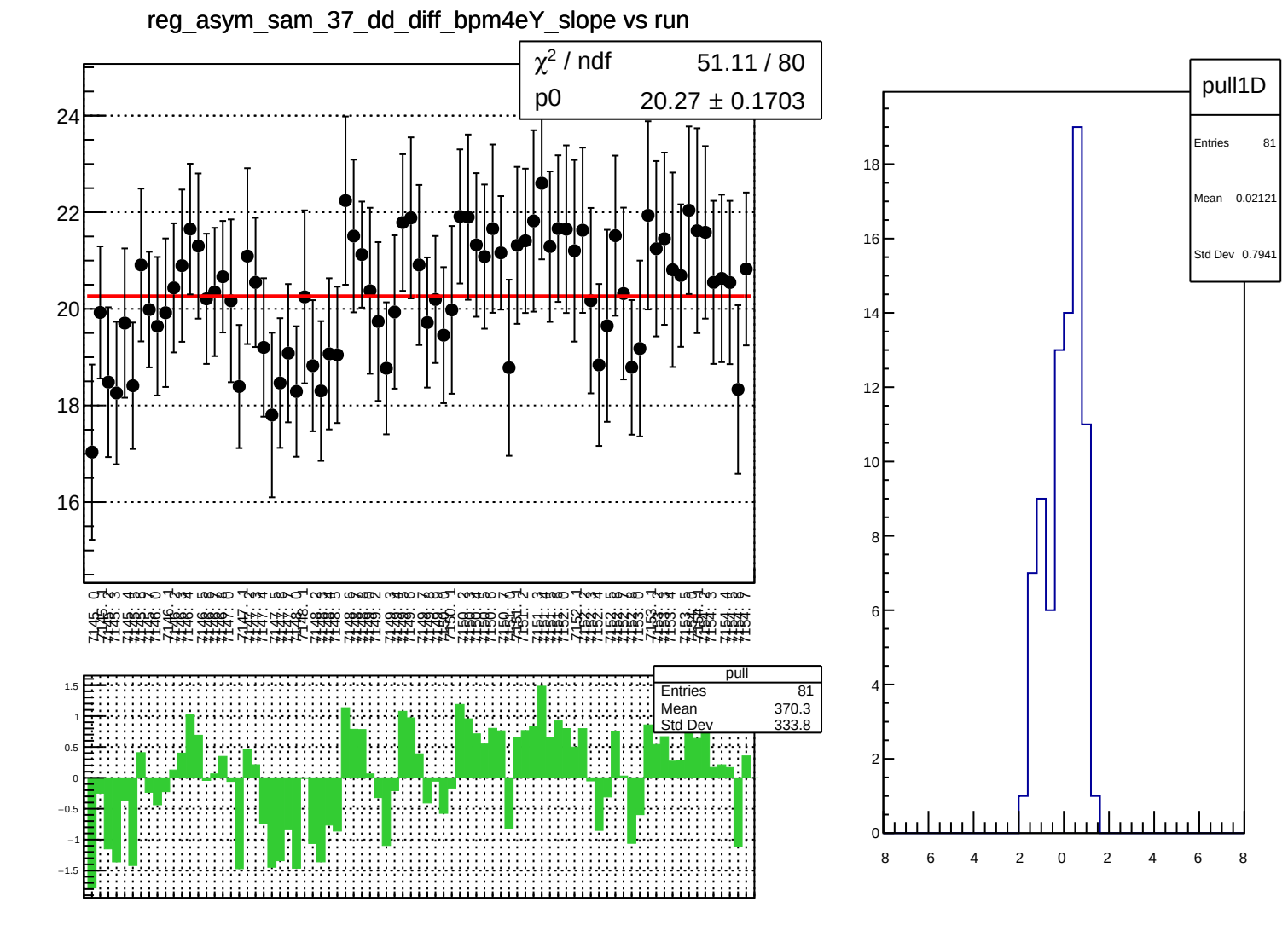

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 271.7 / 80
p0 −18.7 ± 0.1818
pull
Entries 81
Mean 178.2
Std Dev 141.2

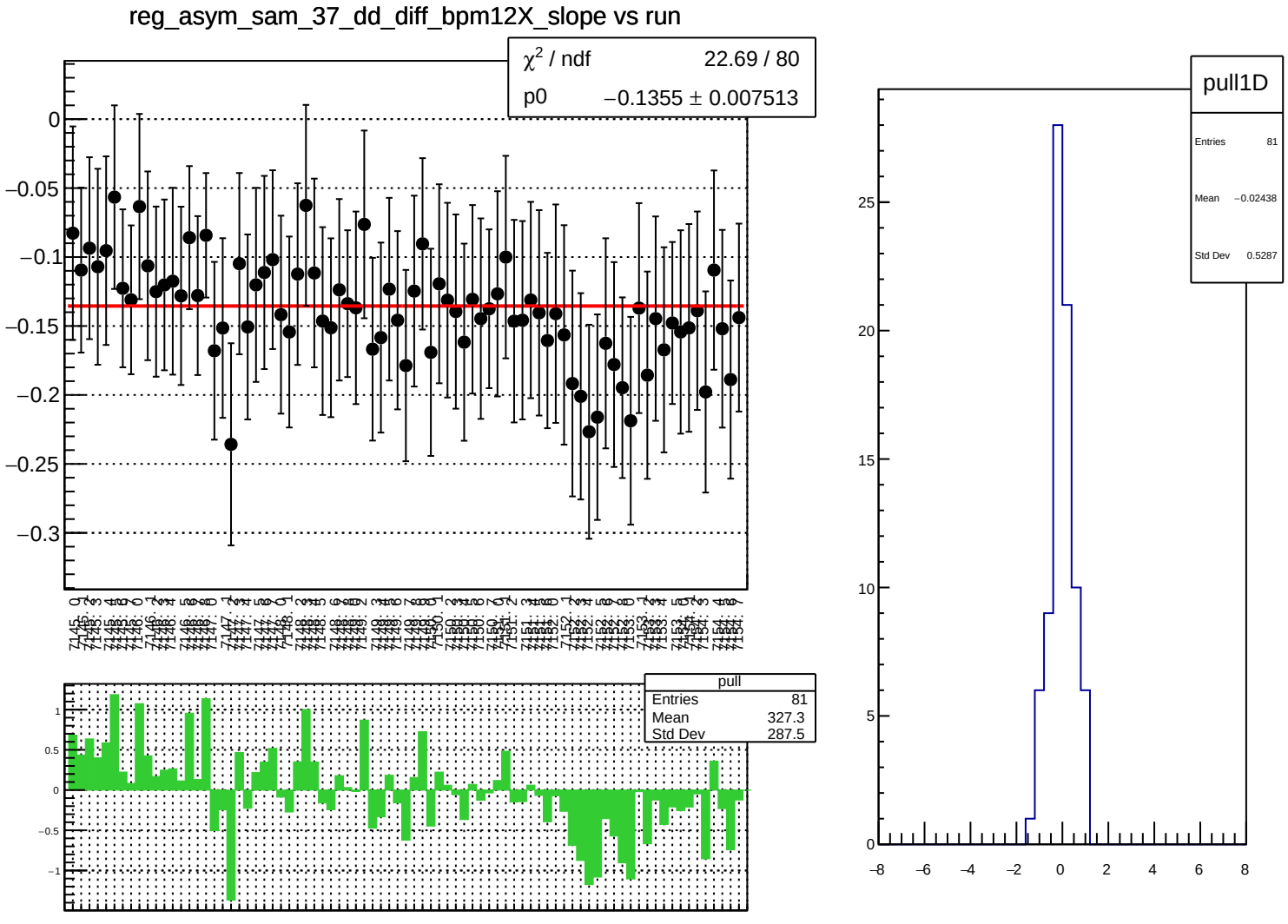

pull1D
Entries 81
Mean 0.06438
Std Dev 1.83

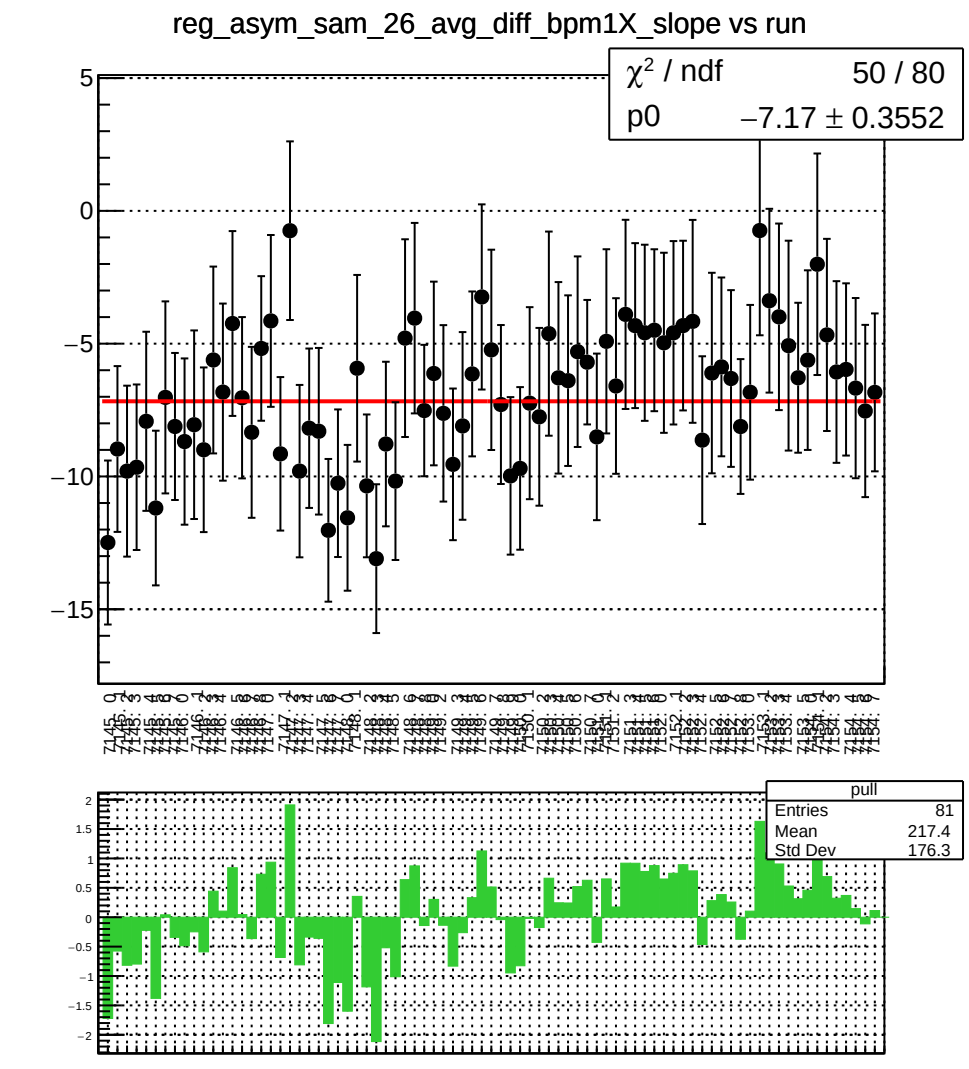

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.7 / 80
p0 −5.869 ± 0.1559
pull
Entries 81
Mean 590
Std Dev 551.9
pull1D
Entries 81
Mean −0.01591
Std Dev 0.8439

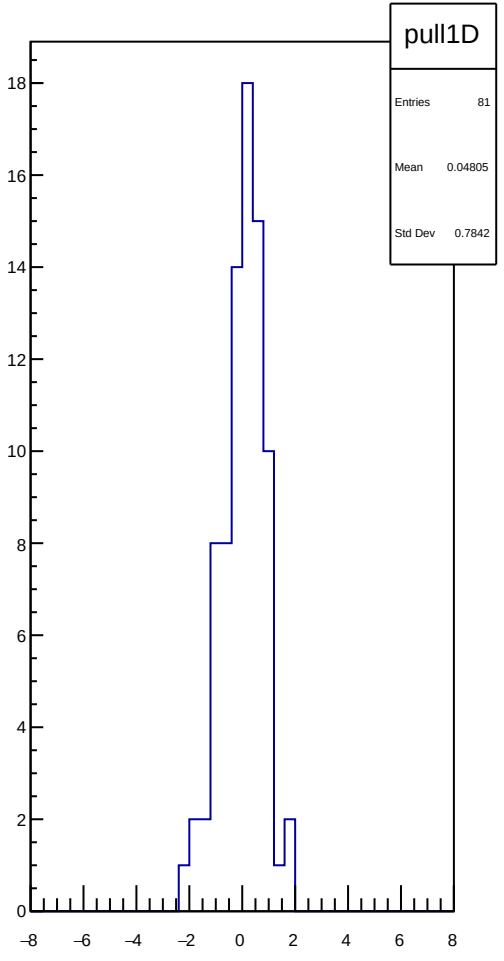

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 208.9 / 80
p0 −2.125 ± 0.186
pull
Entries 81
Mean 146.8
Std Dev 112

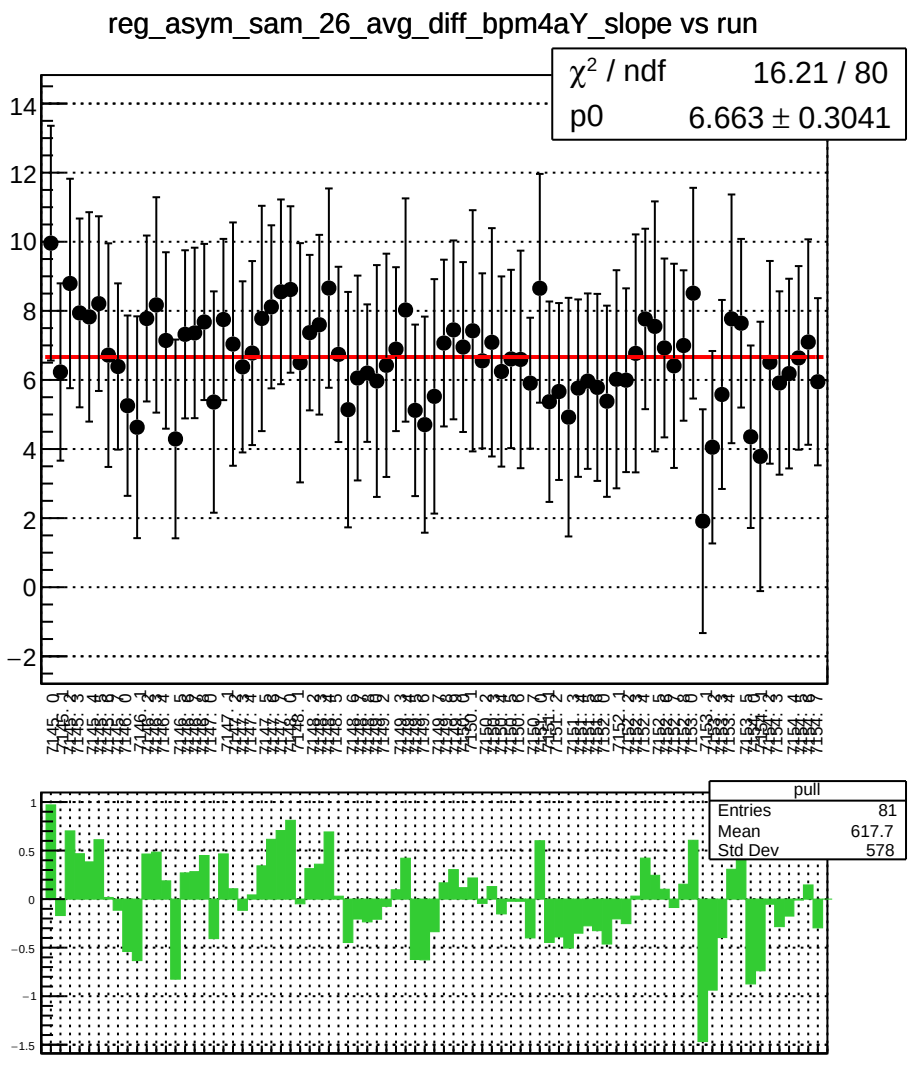

pull1D
Entries 81
Mean 0.04314
Std Dev 1.345

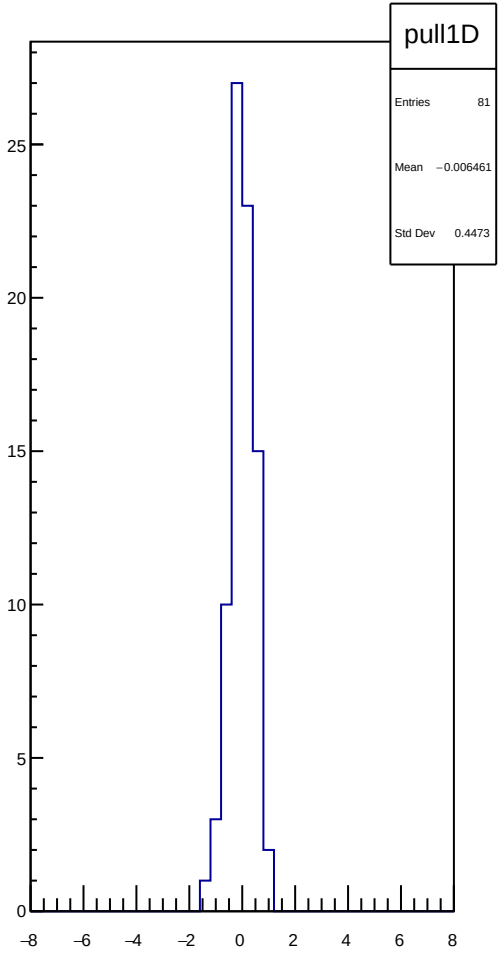

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.11 / 80
p0 20.27 ± 0.1703
pull
Entries 81
Mean 370.3
Std Dev 333.8
pull1D
Entries 81
Mean 0.02121
Std Dev 0.7941

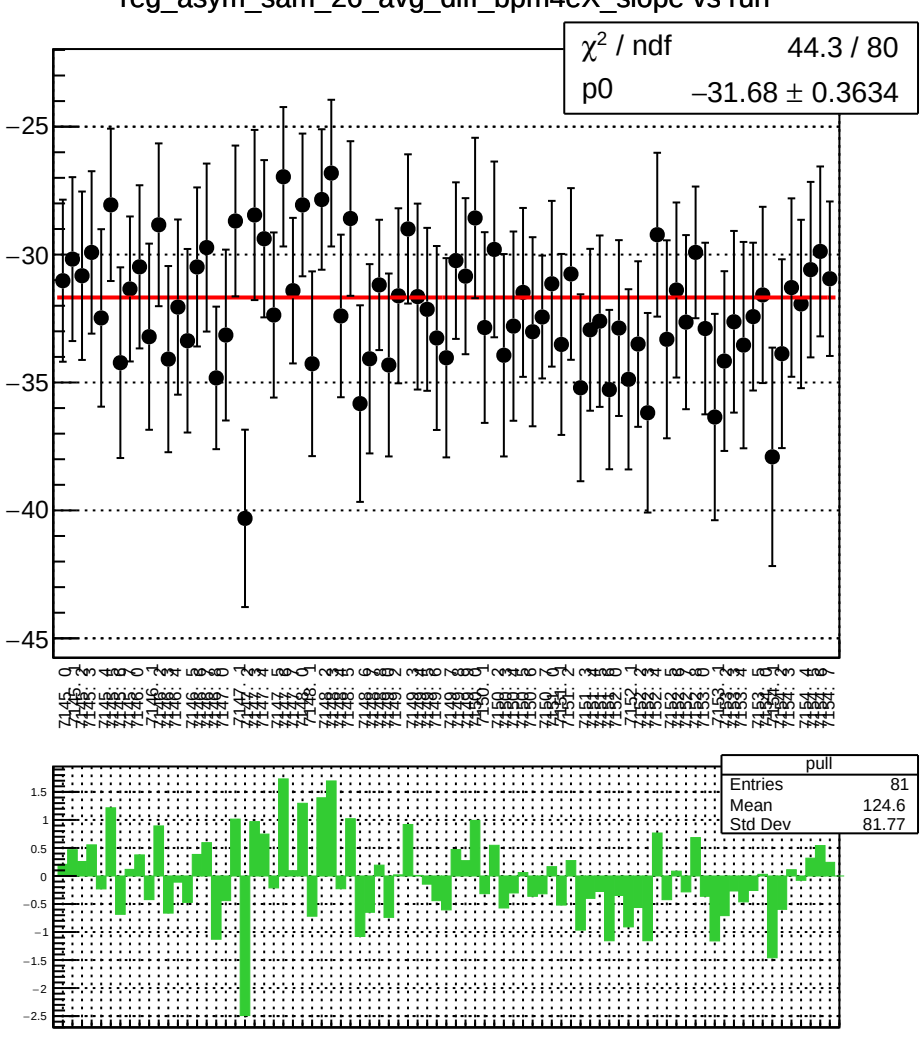

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 22.69 / 80
p0 −0.1355 ± 0.007513
pull
Entries 81
Mean 327.3
Std Dev 287.5
pull1D
Entries 81
Mean −0.02438
Std Dev 0.5287

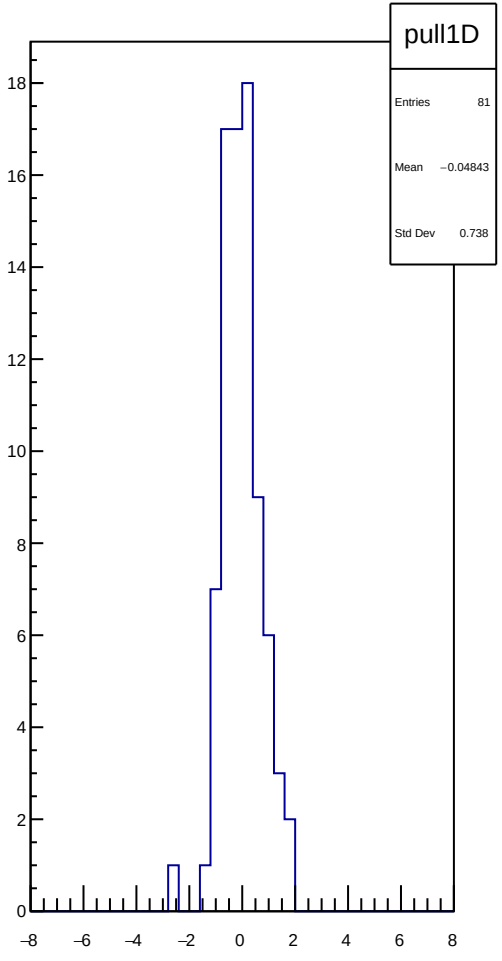

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 50 / 80
p0 −7.17 ± 0.3552
pull
Entries 81
Mean 217.4
Std Dev 176.3

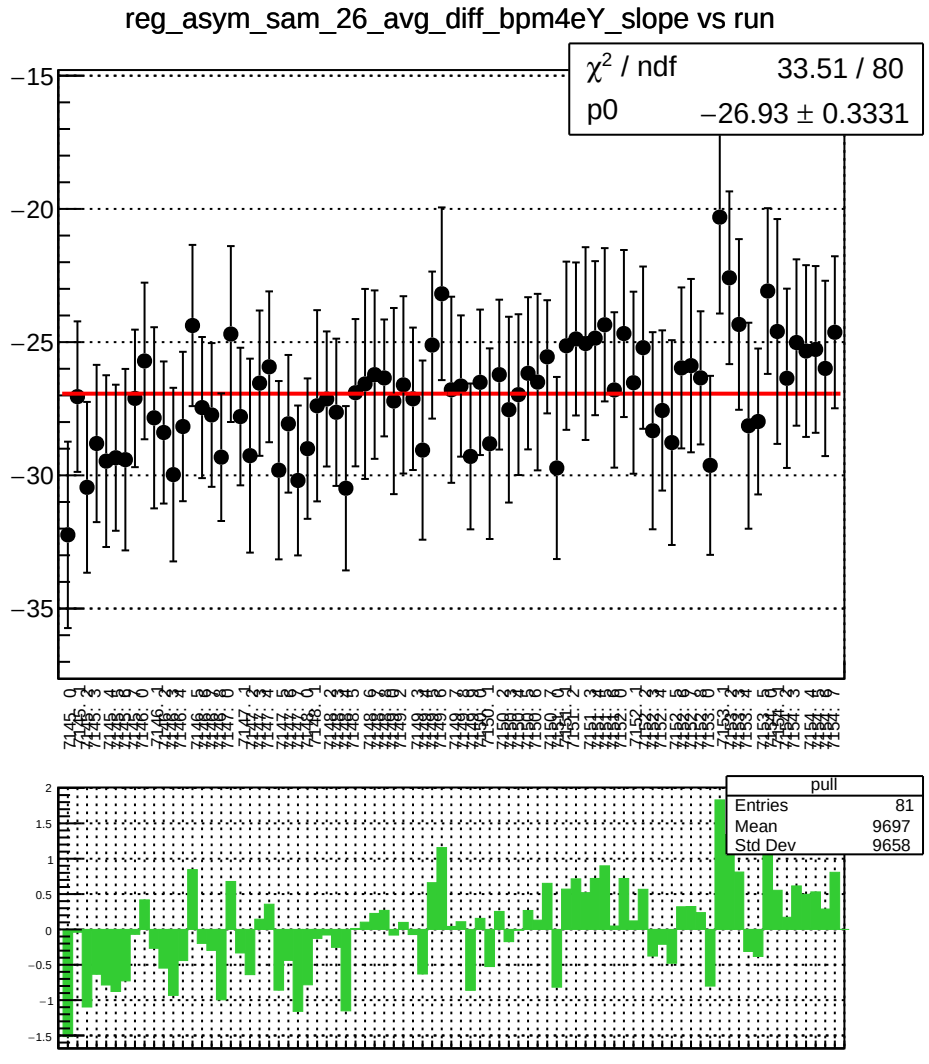

pull1D
Entries 81
Mean 0.04805
Std Dev 0.7842

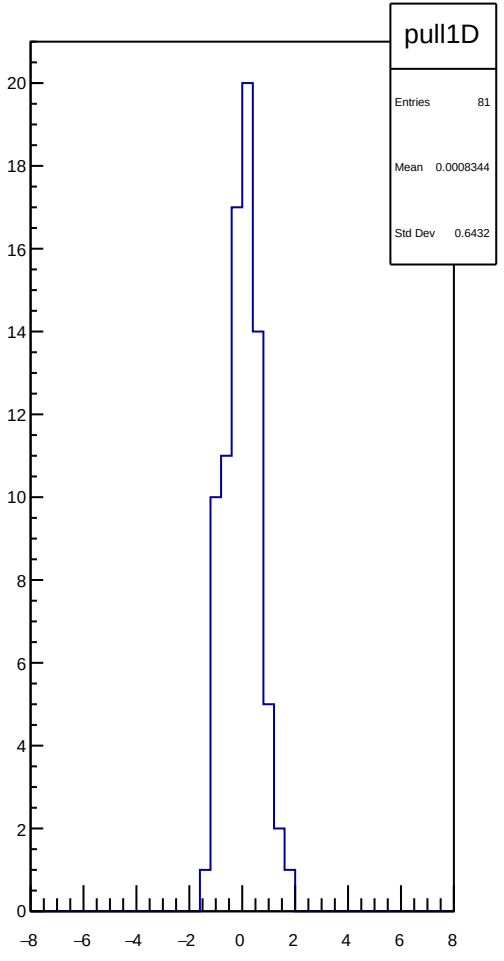

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.21 / 80
p0 6.663 ± 0.3041
pull
Entries 81
Mean 617.7
Std Dev 578

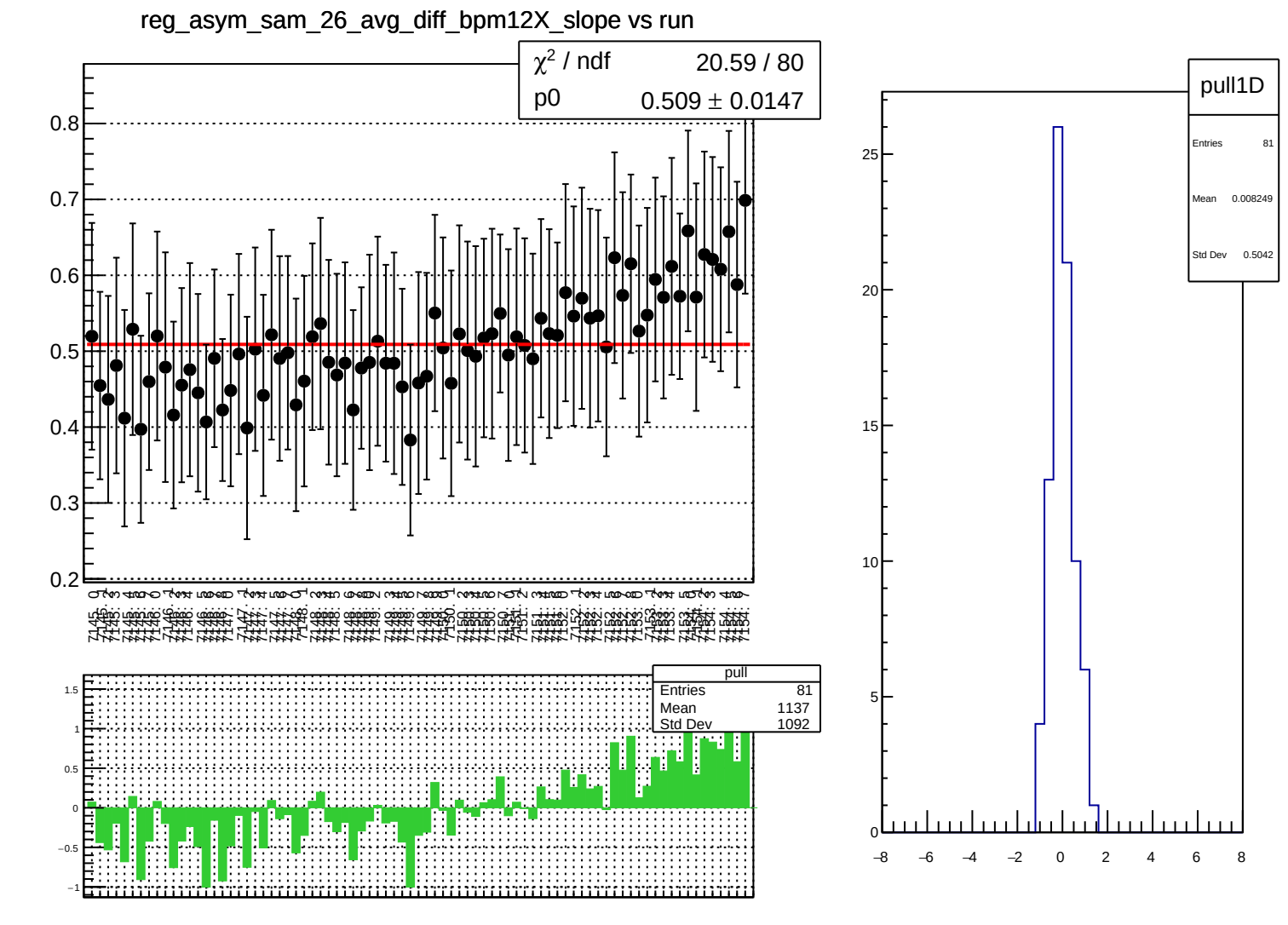

pull1D
Entries 81
Mean −0.006461
Std Dev 0.4473

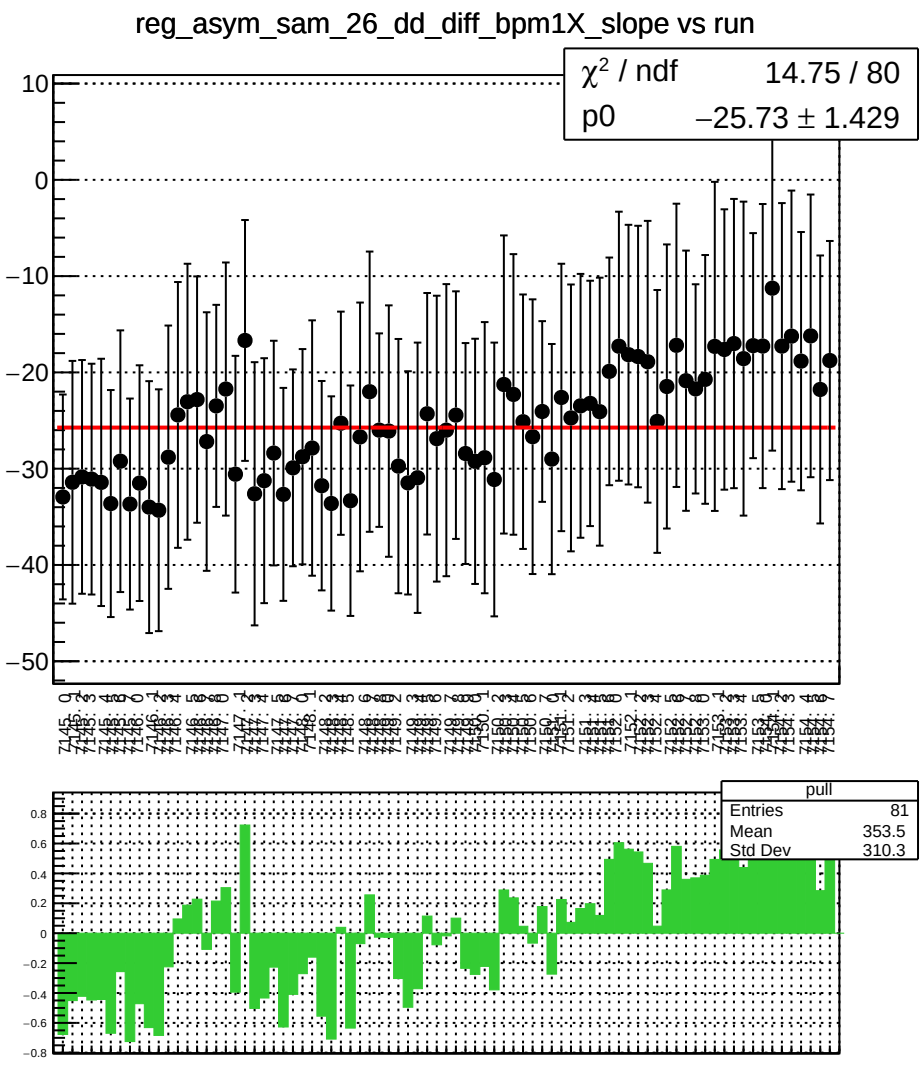

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.3 / 80
p0 −31.68 ± 0.3634
pull
Entries 81
Mean 124.6
Std Dev 81.77

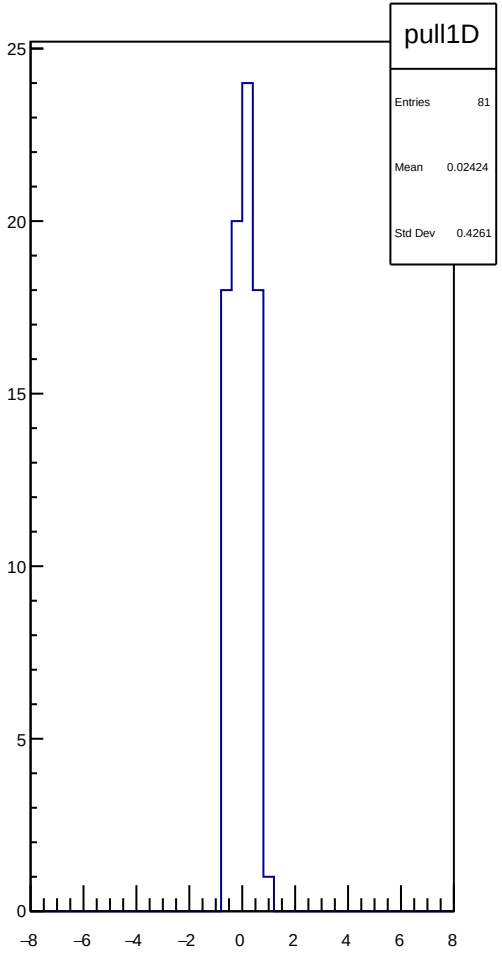

pull1D
Entries 81
Mean −0.04843
Std Dev 0.738

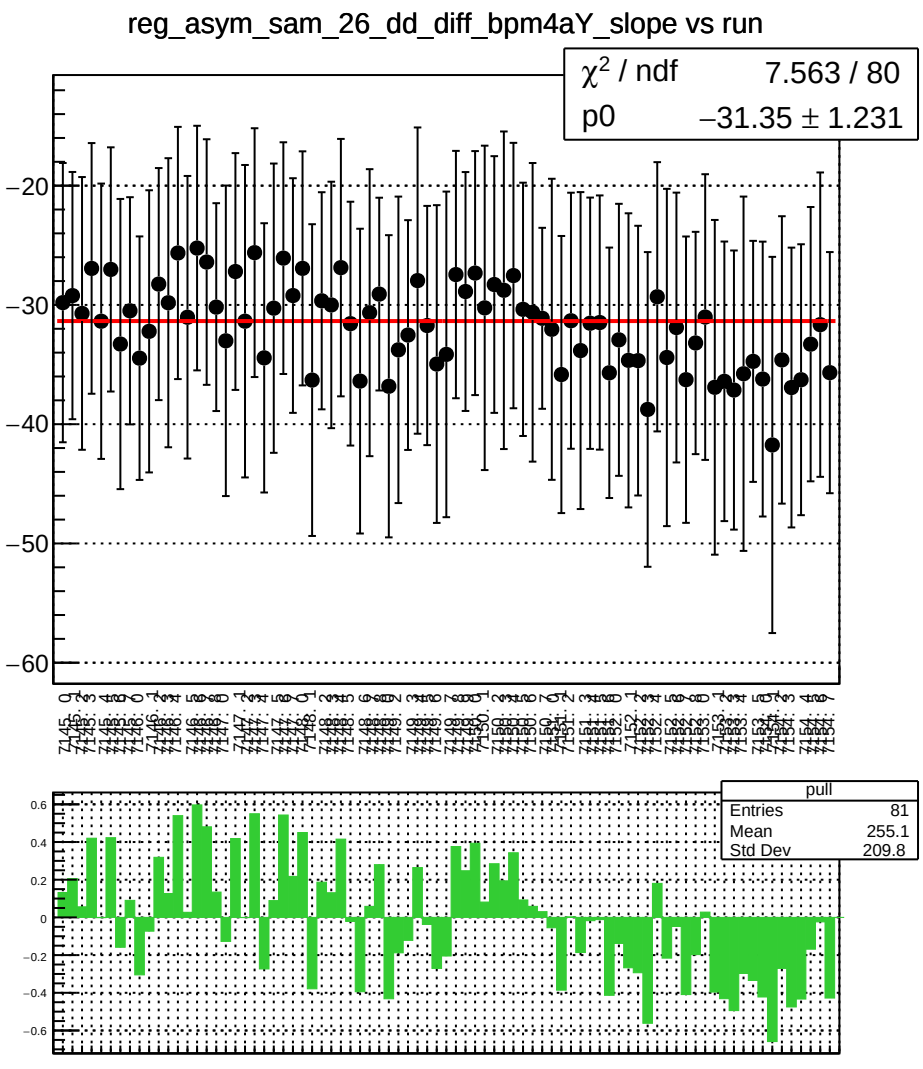

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.51 / 80
p0 −26.93 ± 0.3331
pull
Entries 81
Mean 9697
Std Dev 9658

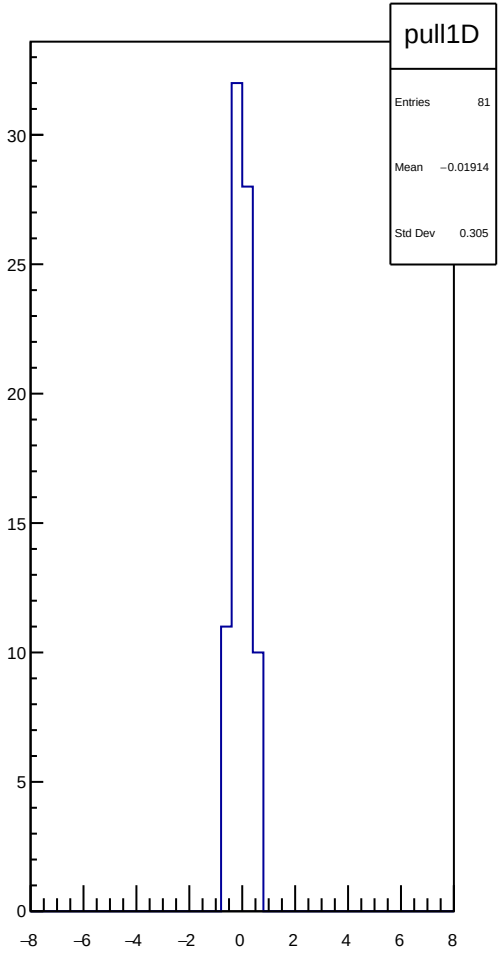

pull1D
Entries 81
Mean 0.0008344
Std Dev 0.6432

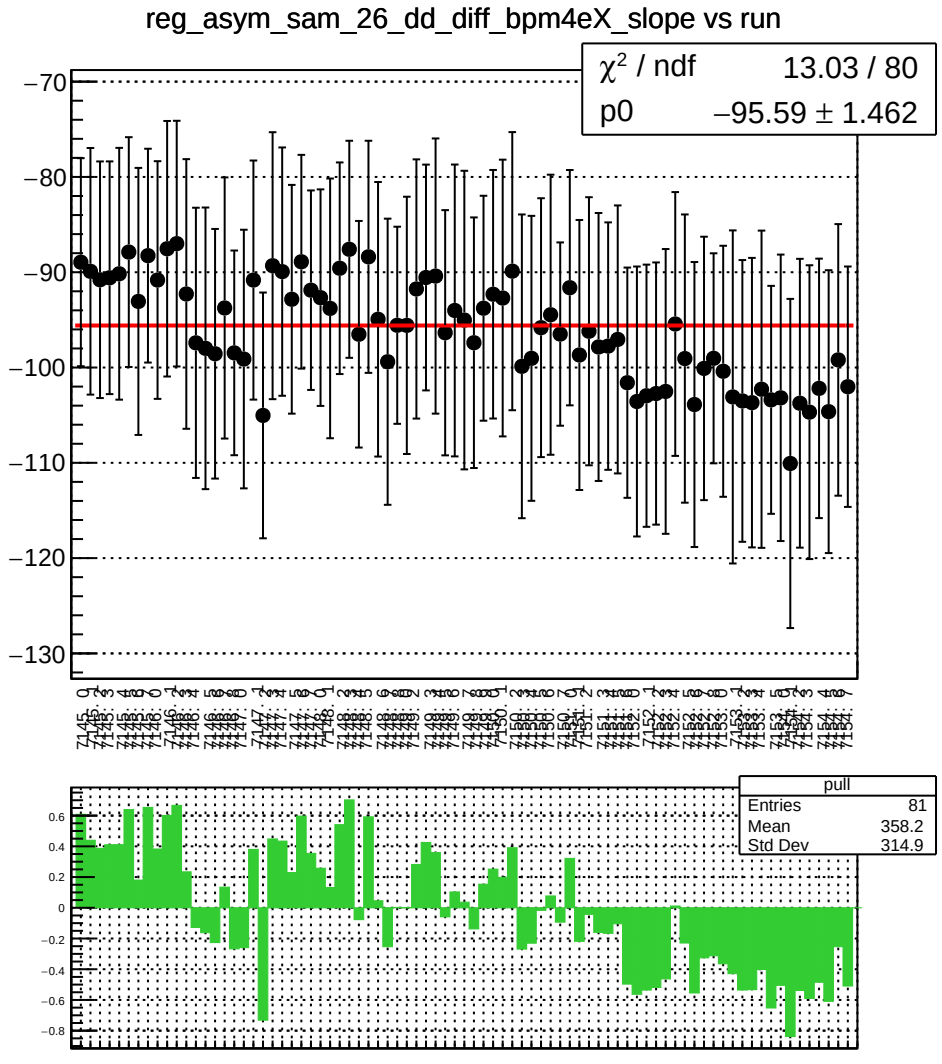

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 20.59 / 80
p0 0.509 ± 0.0147
pull
Entries 81
Mean 1137
Std Dev 1092
pull1D
Entries 81
Mean 0.008249
Std Dev 0.5042

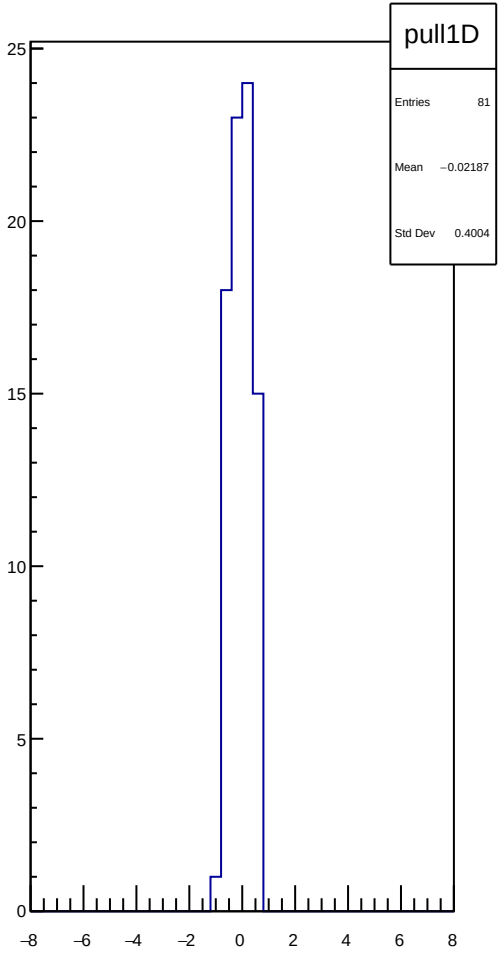

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 14.75 / 80
p0 −25.73 ± 1.429
pull
Entries 81
Mean 353.5
Std Dev 310.3

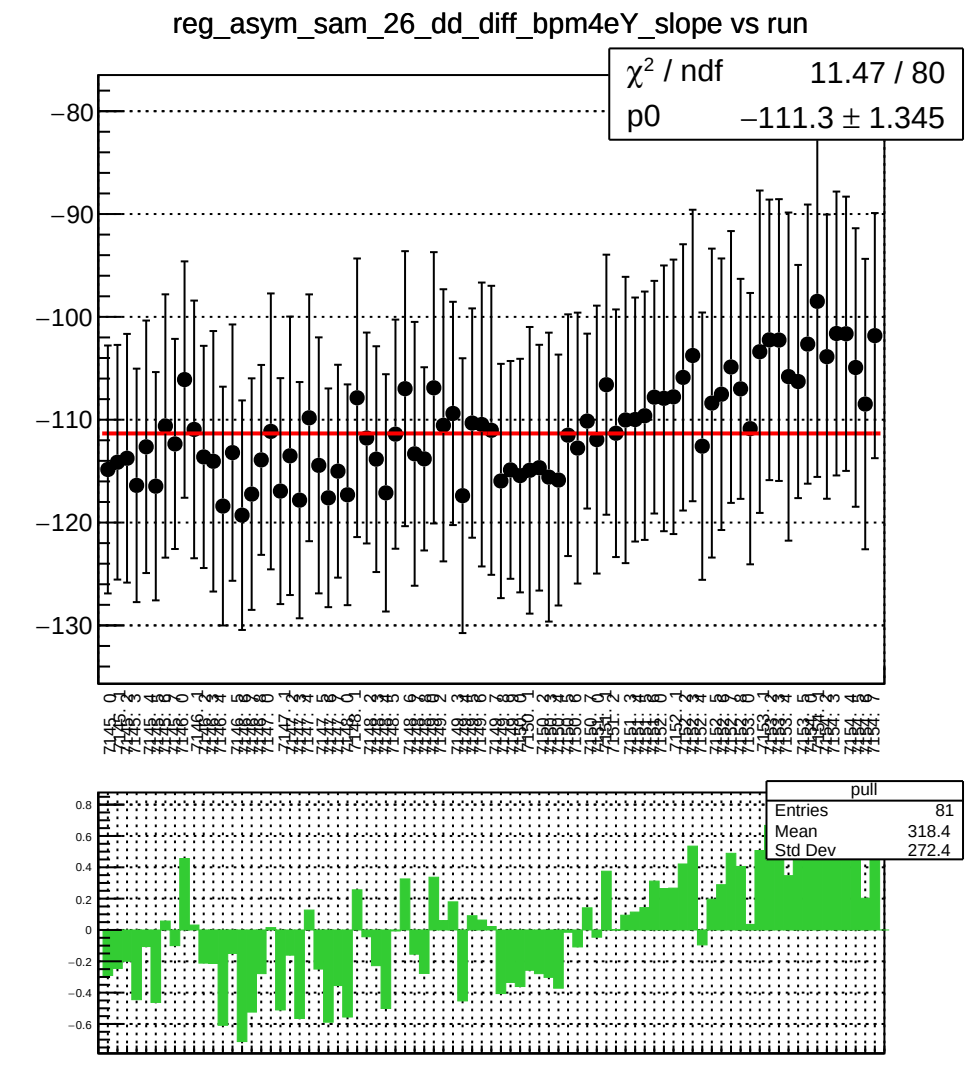

pull1D
Entries 81
Mean 0.02424
Std Dev 0.4261

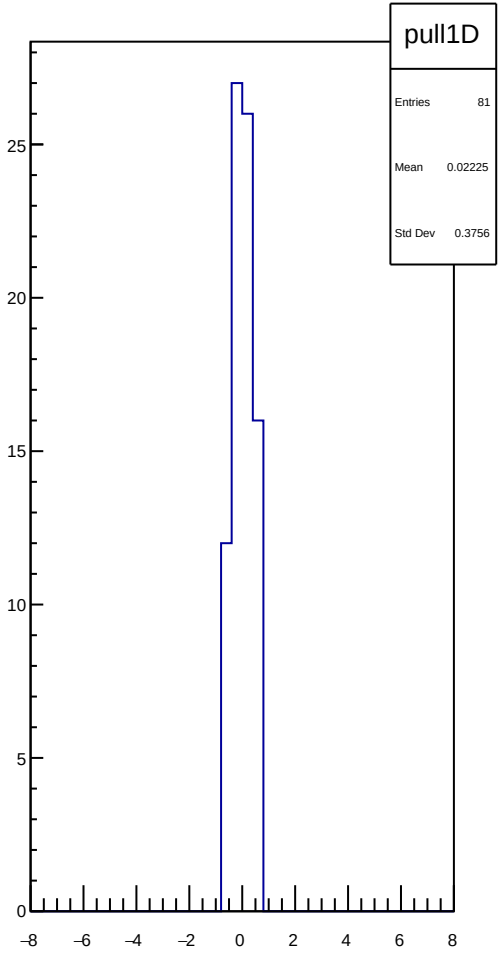

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.563 / 80
p0 −31.35 ± 1.231
pull
Entries 81
Mean 255.1
Std Dev 209.8

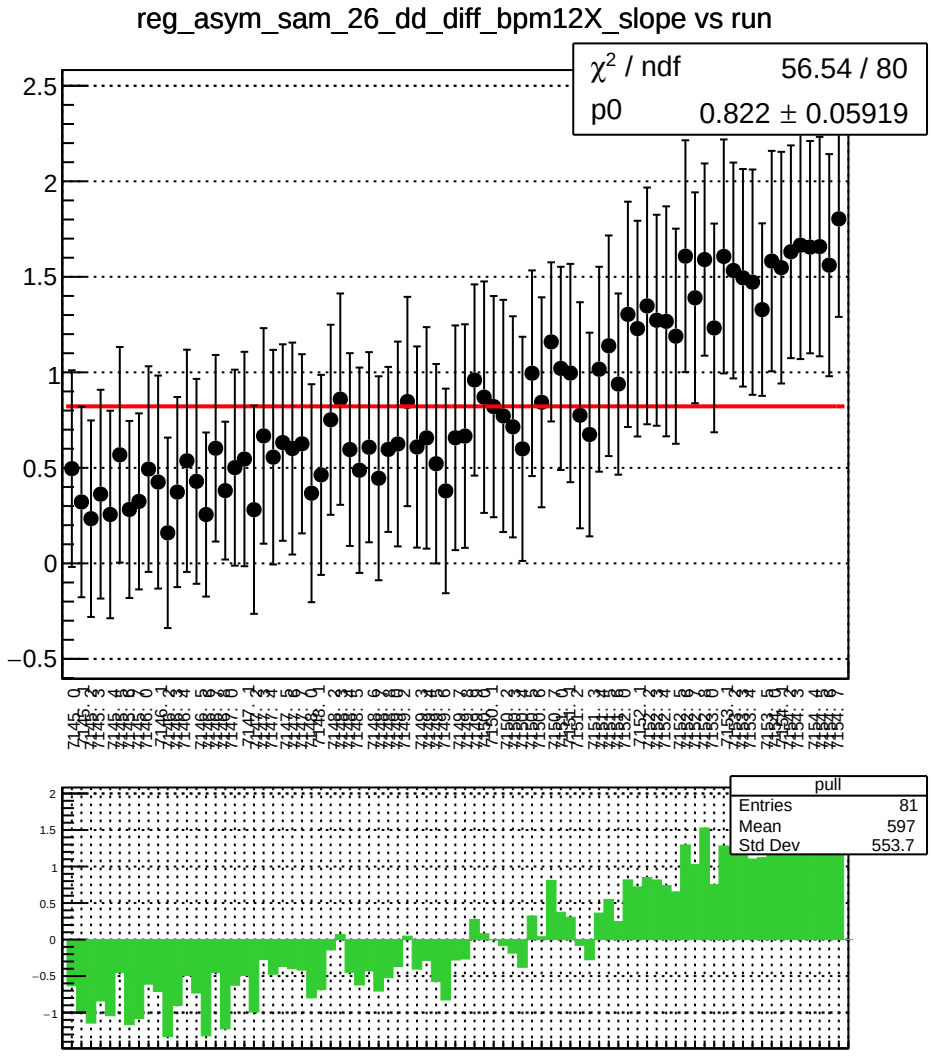

pull1D
Entries 81
Mean −0.01914
Std Dev 0.305

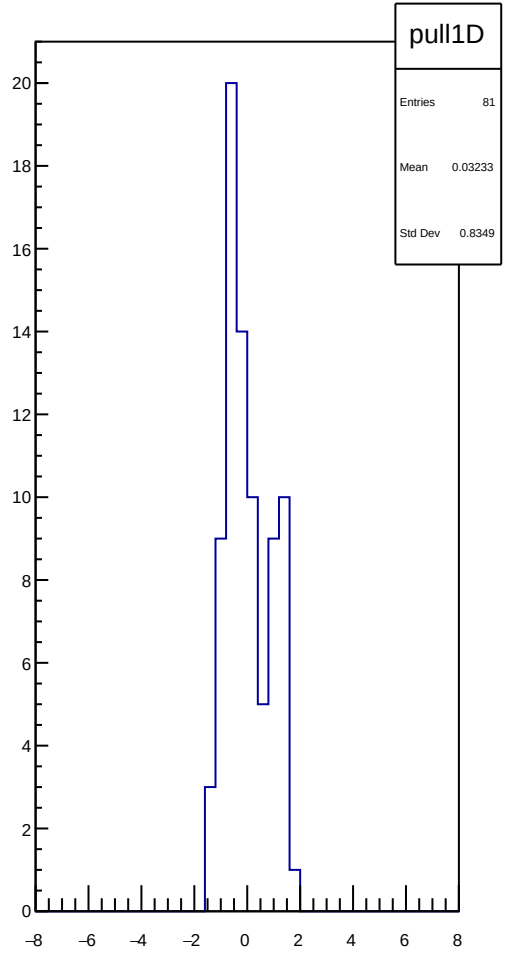

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.03 / 80
p0 −95.59 ± 1.462
pull
Entries 81
Mean 358.2
Std Dev 314.9

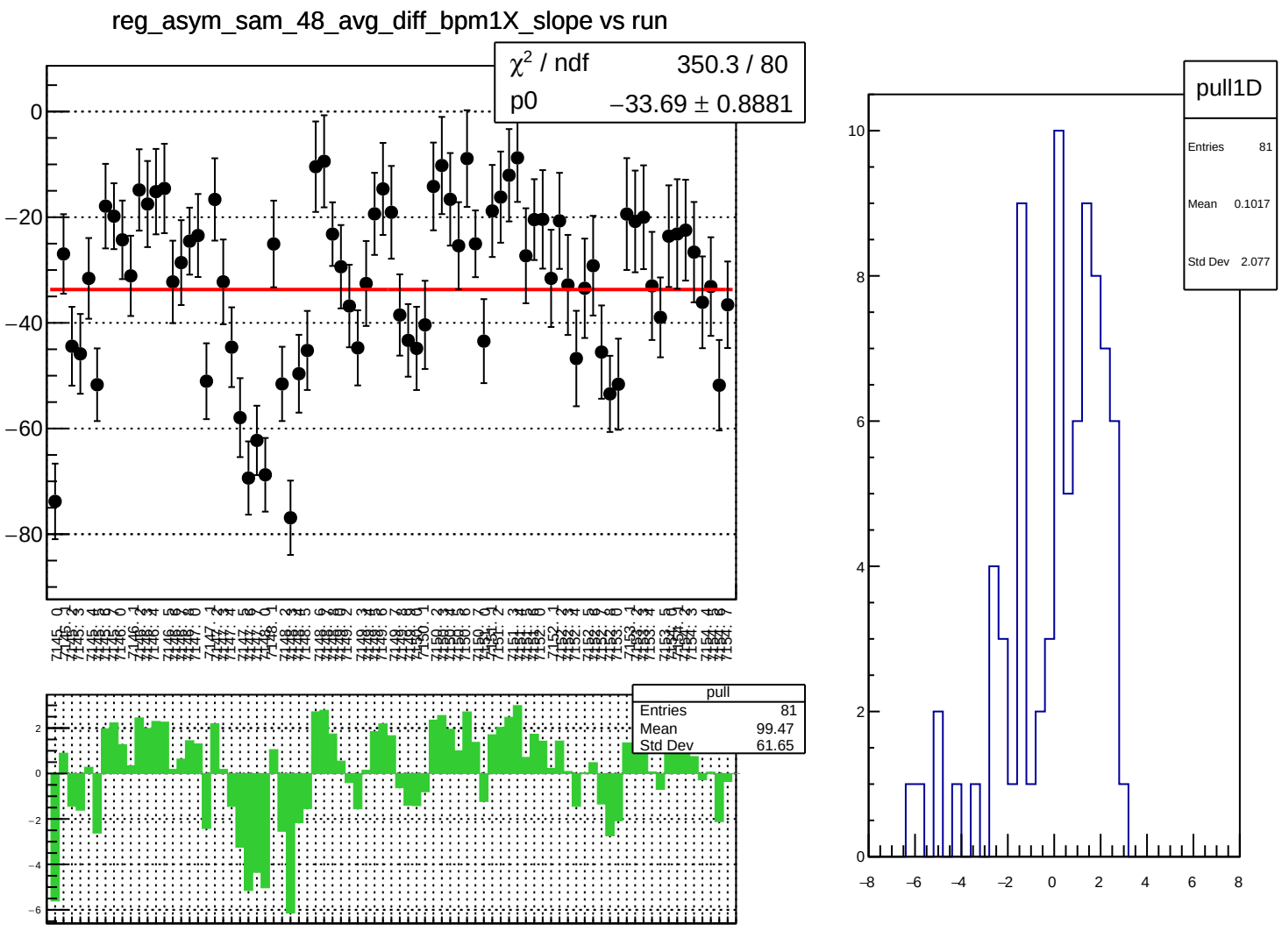

pull1D
Entries 81
Mean −0.02187
Std Dev 0.4004

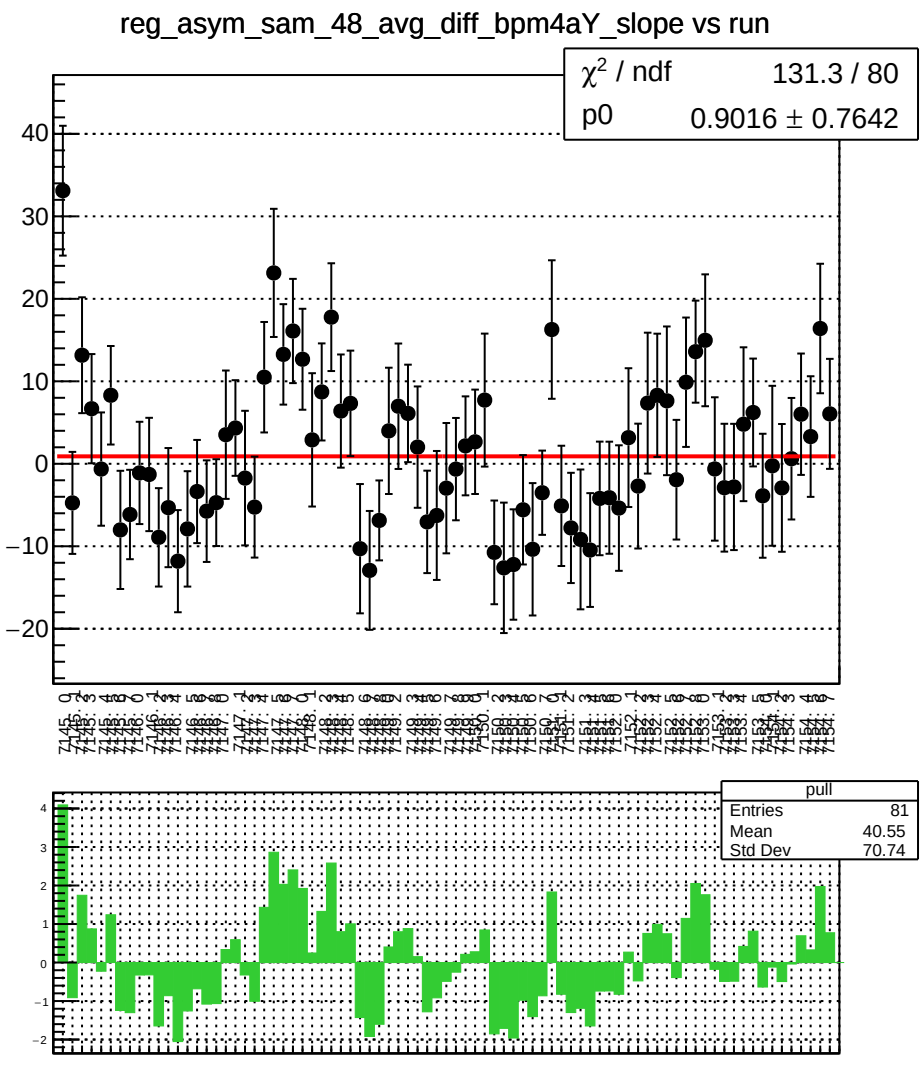

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.47 / 80
p0 −111.3 ± 1.345
pull
Entries 81
Mean 318.4
Std Dev 272.4

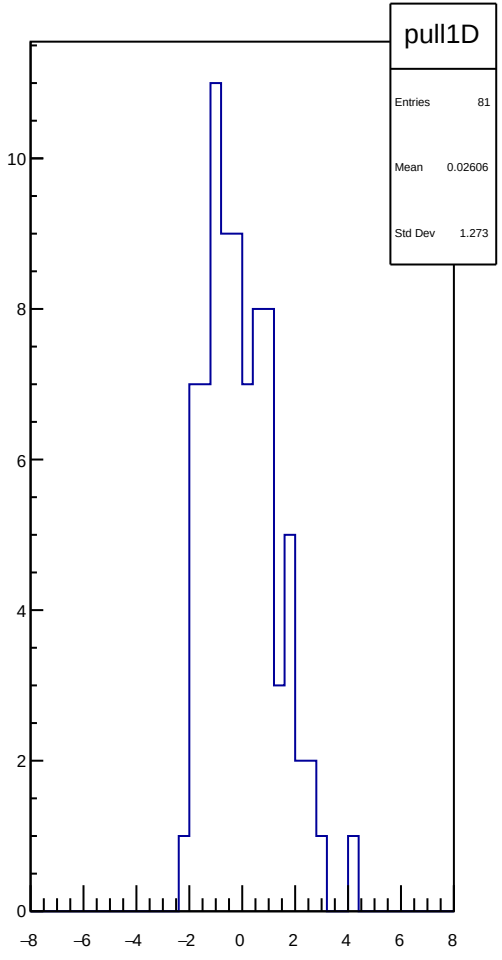

pull1D
Entries 81
Mean 0.02225
Std Dev 0.3756

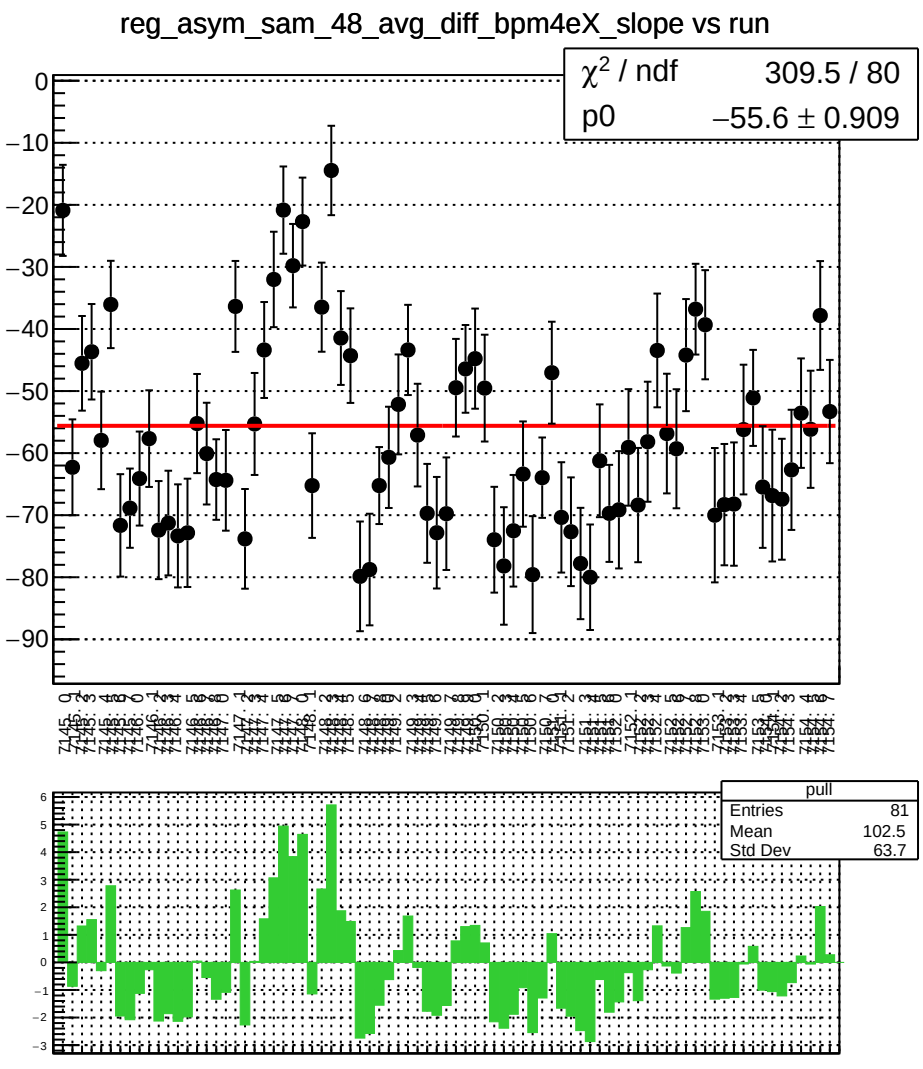

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 56.54 / 80
p0 0.822 ± 0.05919
pull
Entries 81
Mean 597
Std Dev 553.7

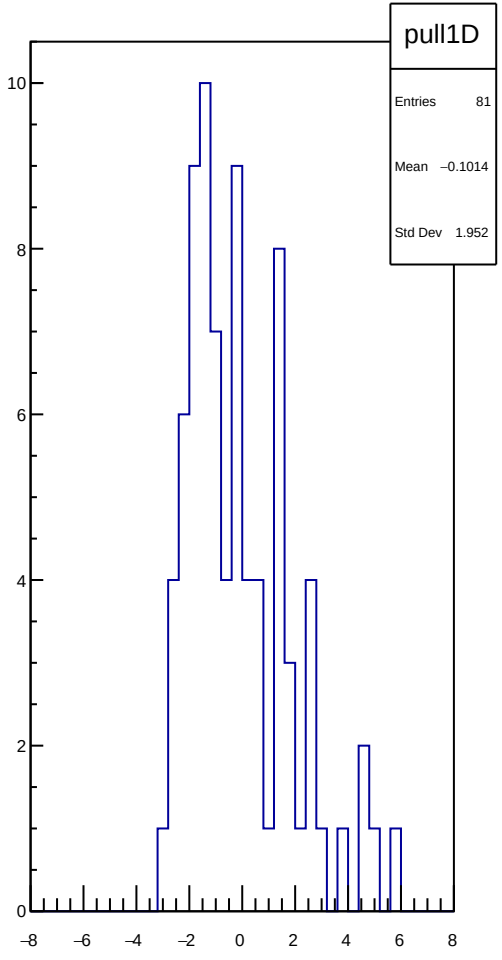

pull1D
Entries 81
Mean 0.03233
Std Dev 0.8349

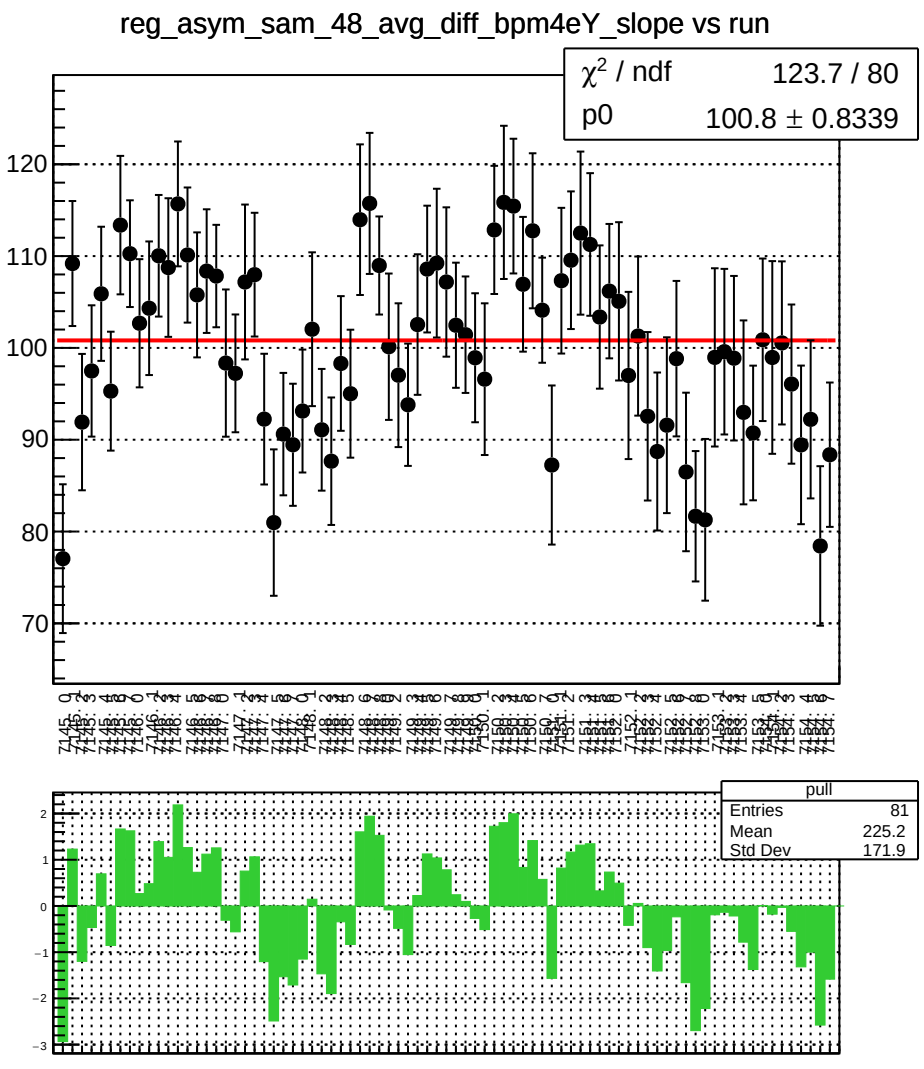

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 350.3 / 80
p0 −33.69 ± 0.8881
0
−20
−40
−60
−80
pull
Entries 81
Mean 99.47
Std Dev 61.65
2
0
−2
−4
−6
pull1D
Entries 81
Mean 0.1017
Std Dev 2.077
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

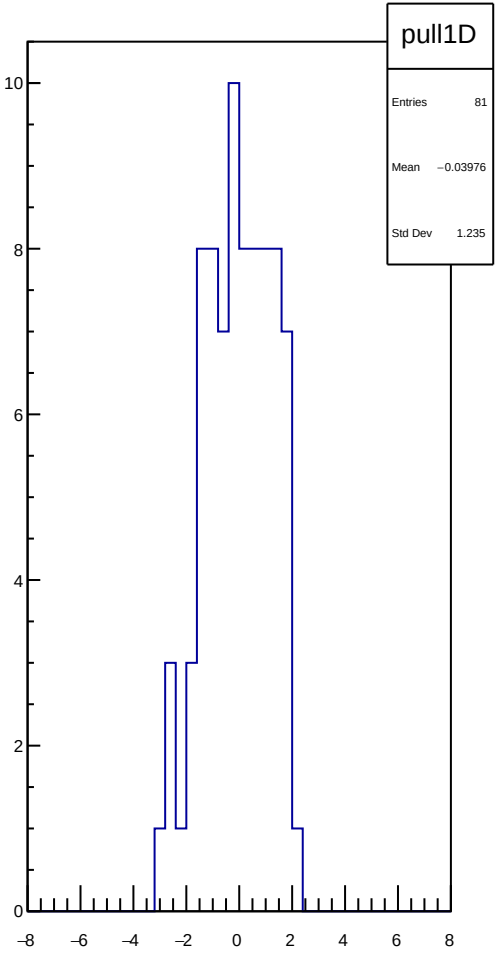

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 131.3 / 80
p0 0.9016 ± 0.7642
pull
Entries 81
Mean 40.55
Std Dev 70.74

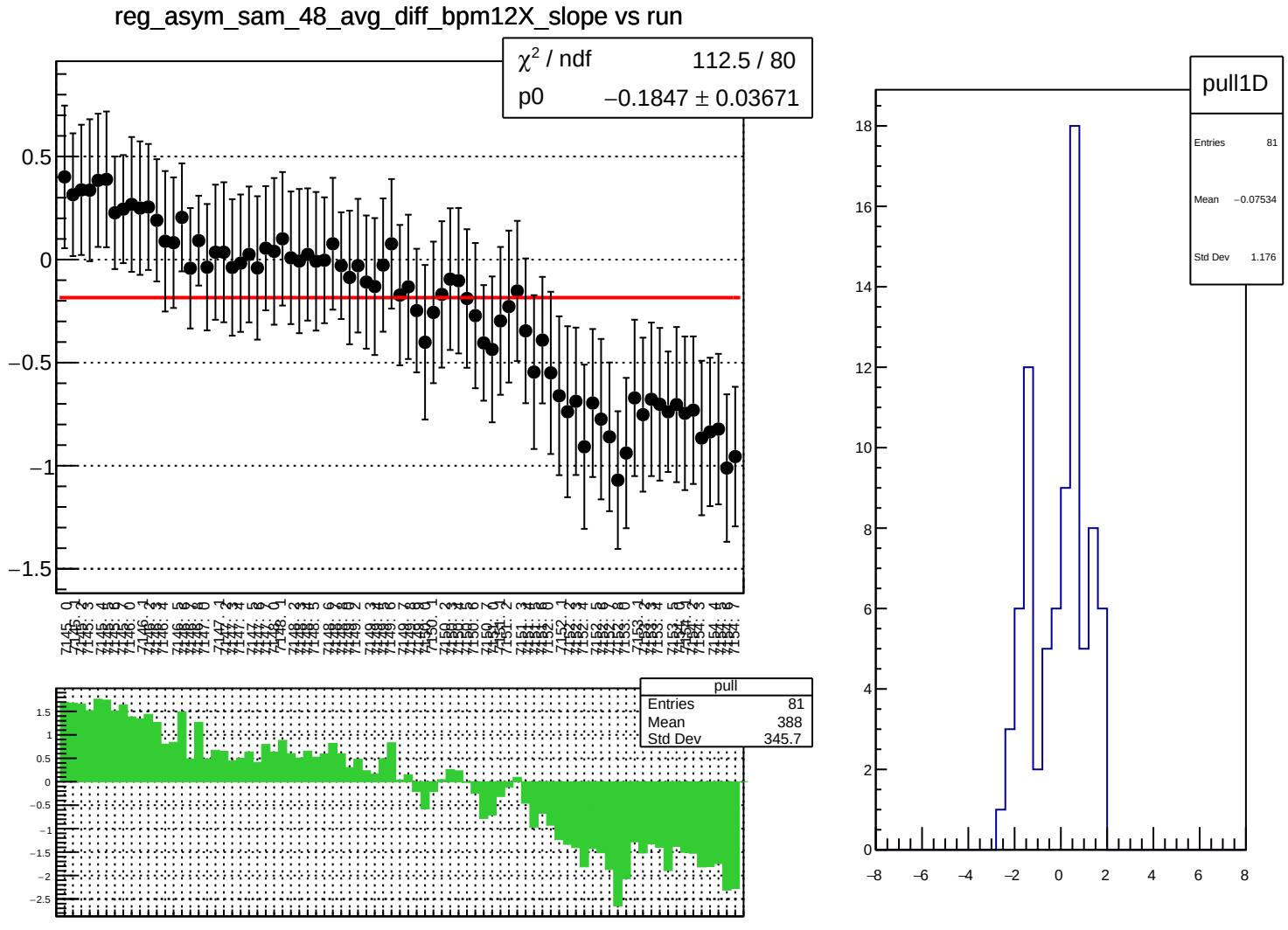

pull1D
Entries 81
Mean 0.02606
Std Dev 1.273

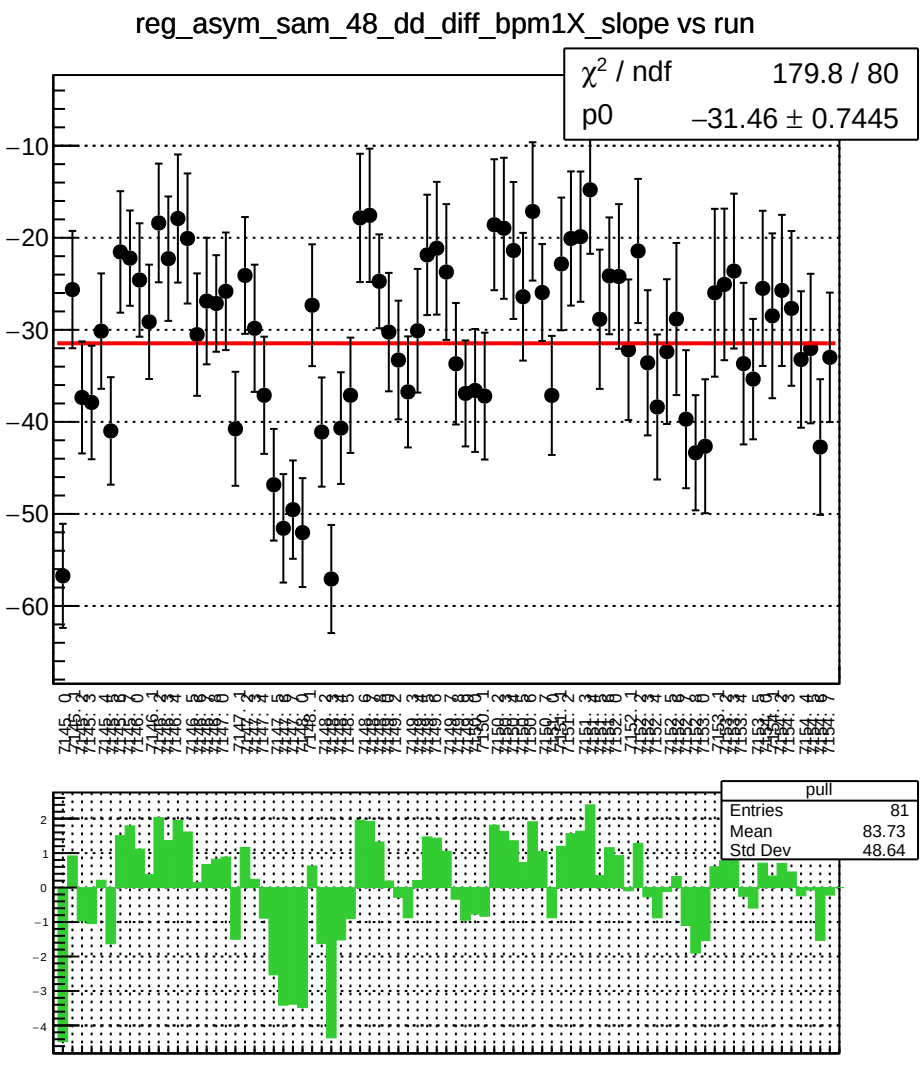

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 309.5 / 80
p0 −55.6 ± 0.909
pull
Entries 81
Mean 102.5
Std Dev 63.7

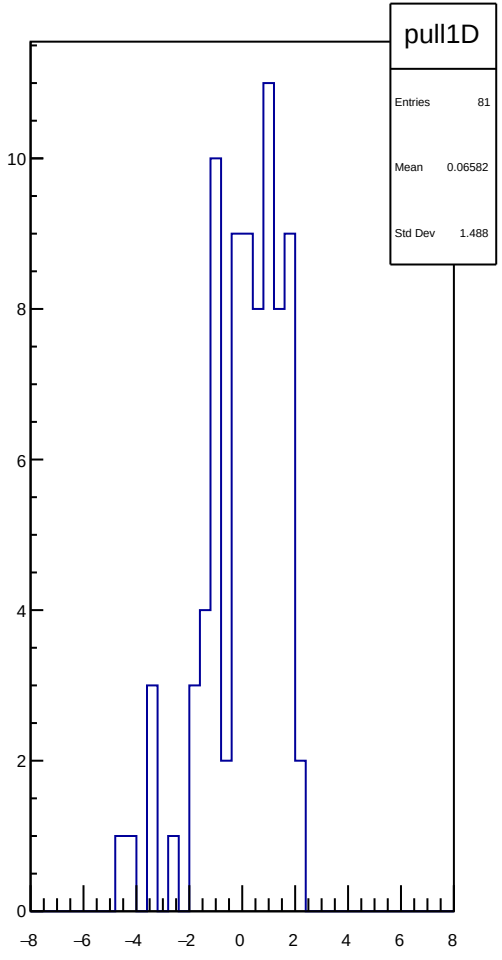

pull1D
Entries 81
Mean −0.1014
Std Dev 1.952

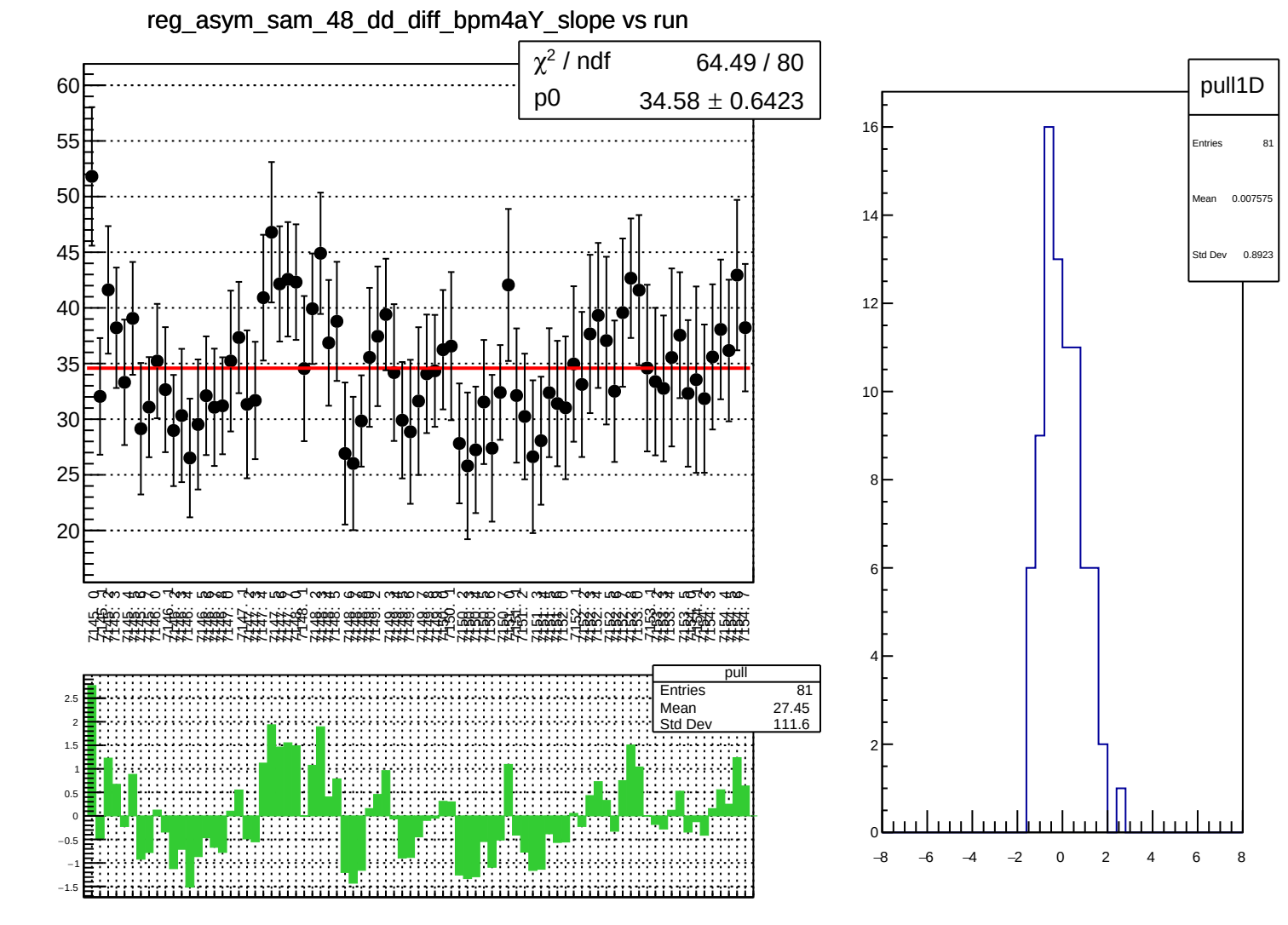

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 123.7 / 80
p0 100.8 ± 0.8339
pull
Entries 81
Mean 225.2
Std Dev 171.9

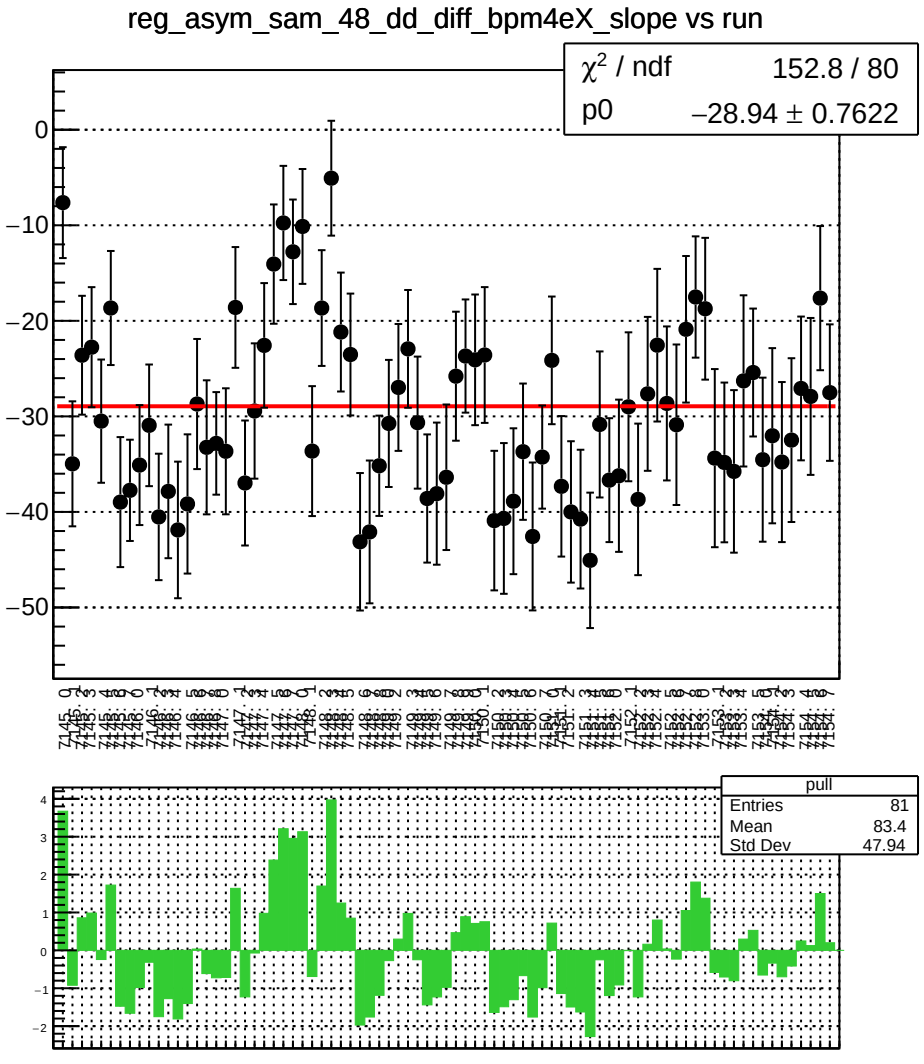

pull1D
Entries 81
Mean −0.03976
Std Dev 1.235

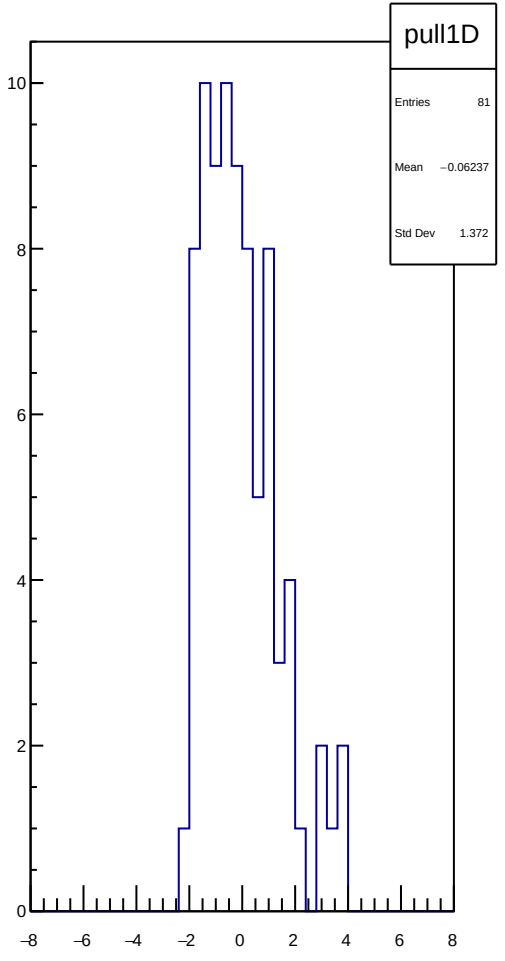

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 112.5 / 80
p0 −0.1847 ± 0.03671
pull
Entries 81
Mean 388
Std Dev 345.7
pull1D
Entries 81
Mean −0.07534
Std Dev 1.176

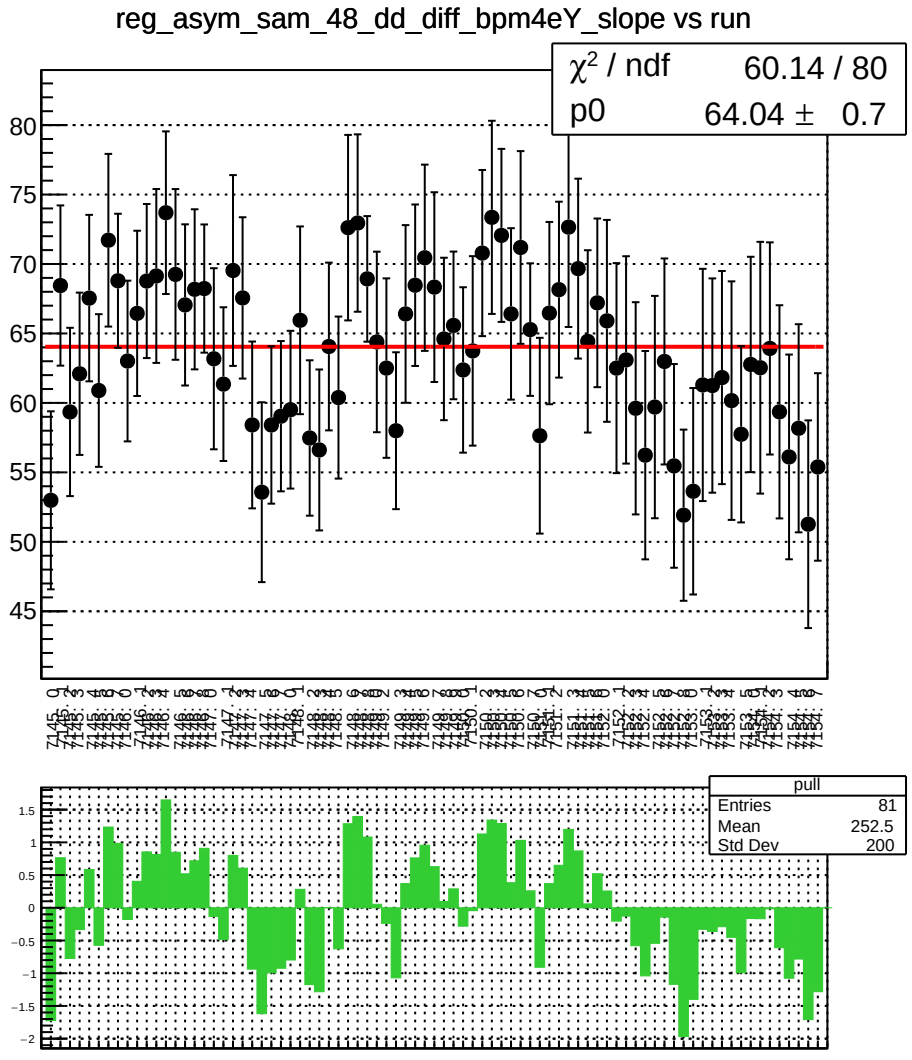

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 179.8 / 80
p0 −31.46 ± 0.7445
pull
Entries 81
Mean 83.73
Std Dev 48.64

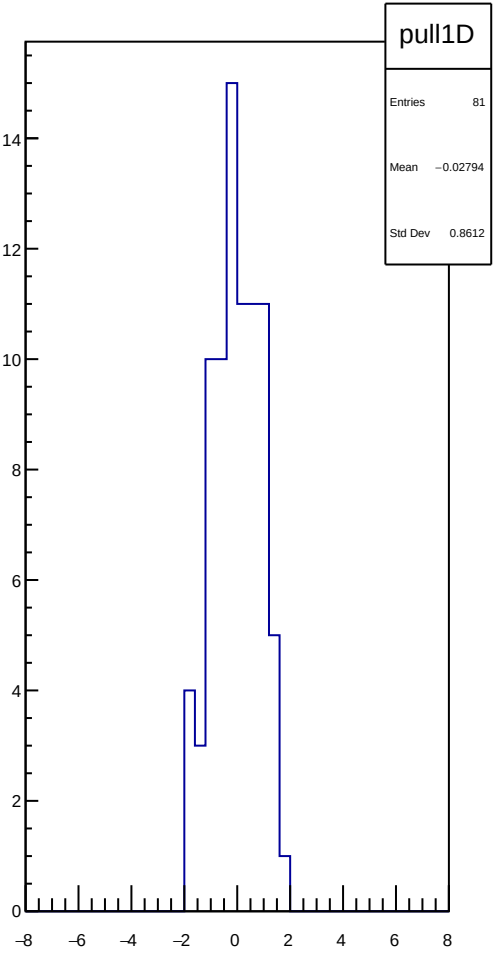

pull1D
Entries 81
Mean 0.06582
Std Dev 1.488

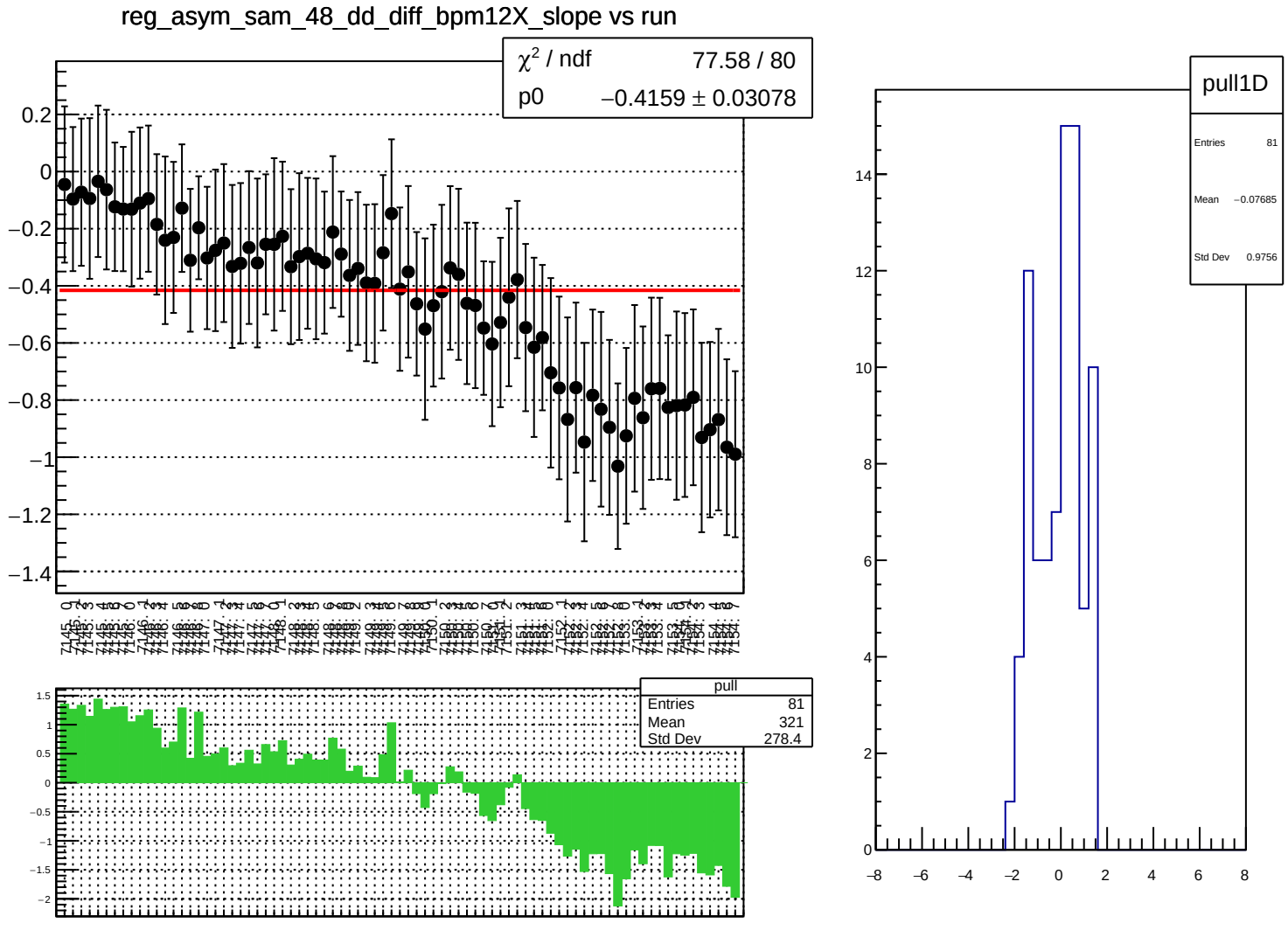

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.49 / 80
p0 34.58 ± 0.6423
pull
Entries 81
Mean 27.45
Std Dev 111.6
pull1D
Entries 81
Mean 0.007575
Std Dev 0.8923

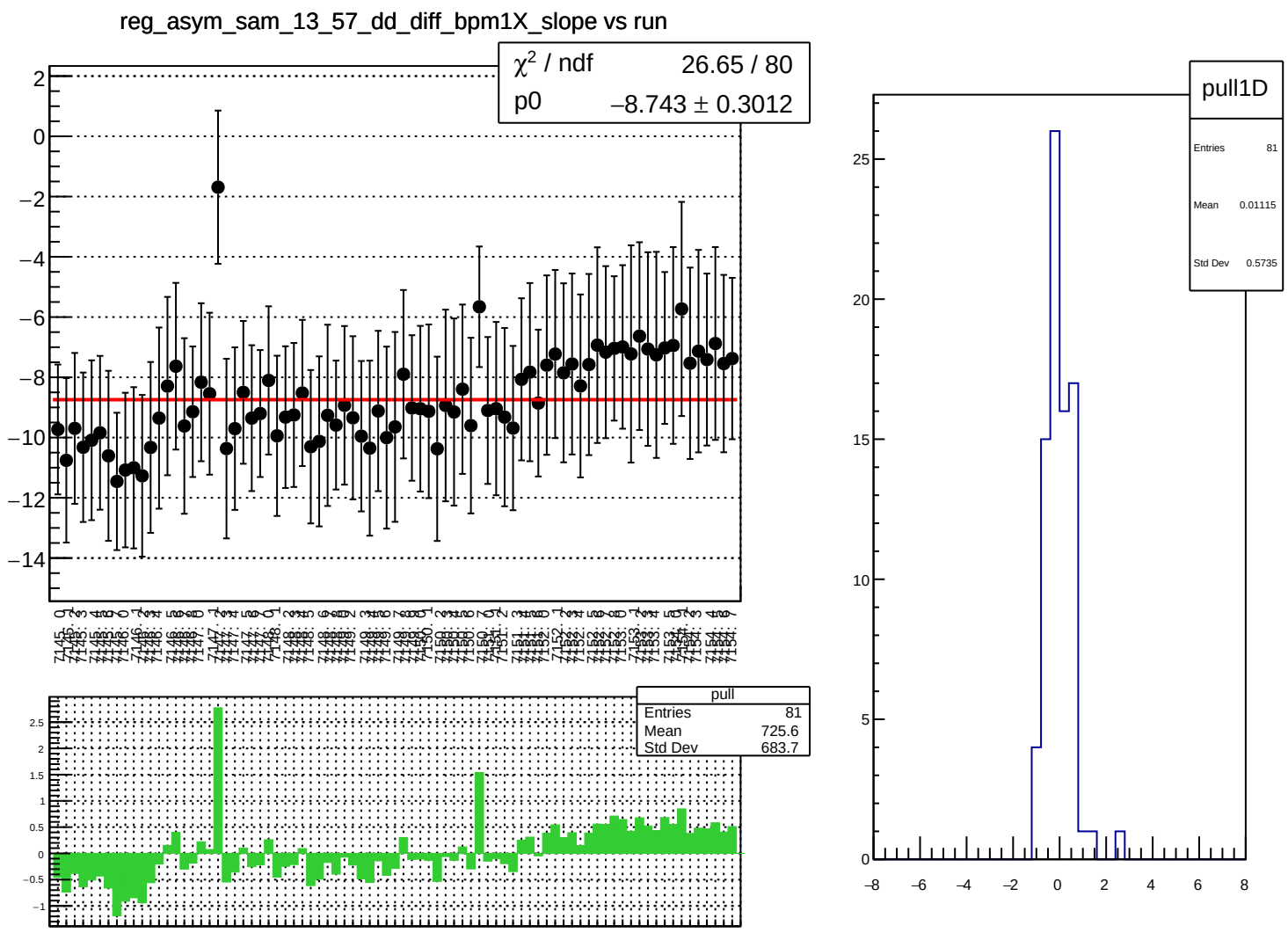

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 152.8 / 80
p0 −28.94 ± 0.7622
pull
Entries 81
Mean 83.4
Std Dev 47.94

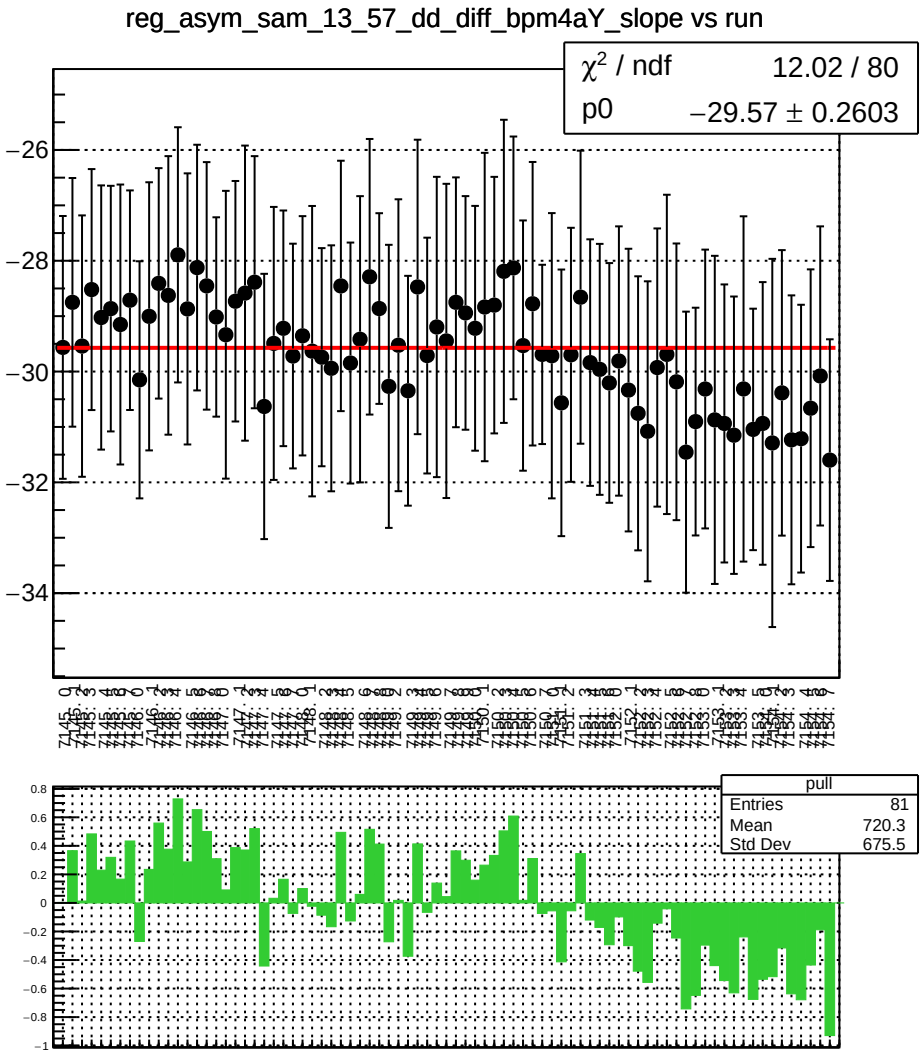

pull1D
Entries 81
Mean −0.06237
Std Dev 1.372

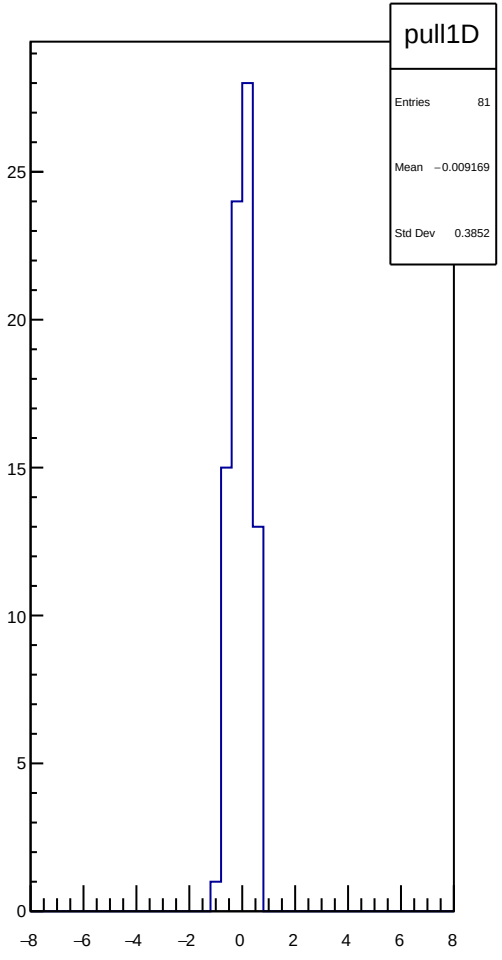

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.14 / 80
p0 64.04 ± 0.7
pull
Entries 81
Mean 252.5
Std Dev 200

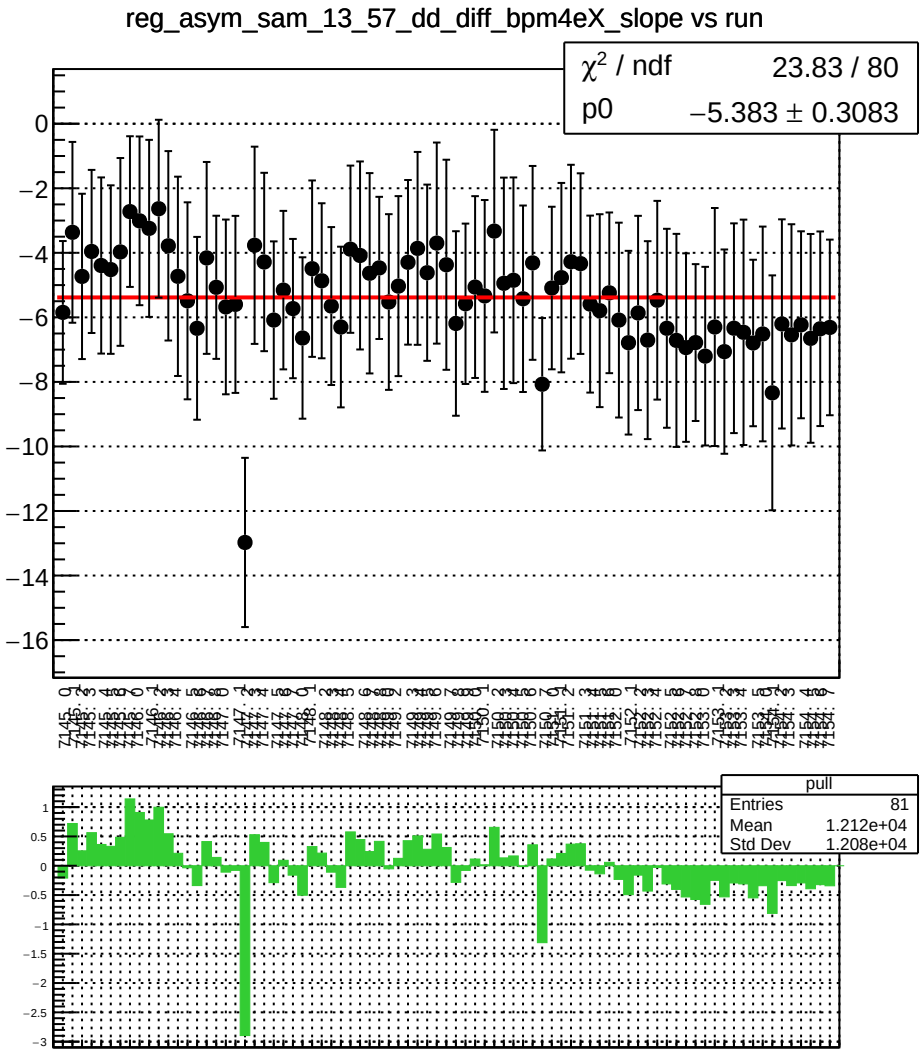

pull1D
Entries 81
Mean −0.02794
Std Dev 0.8612

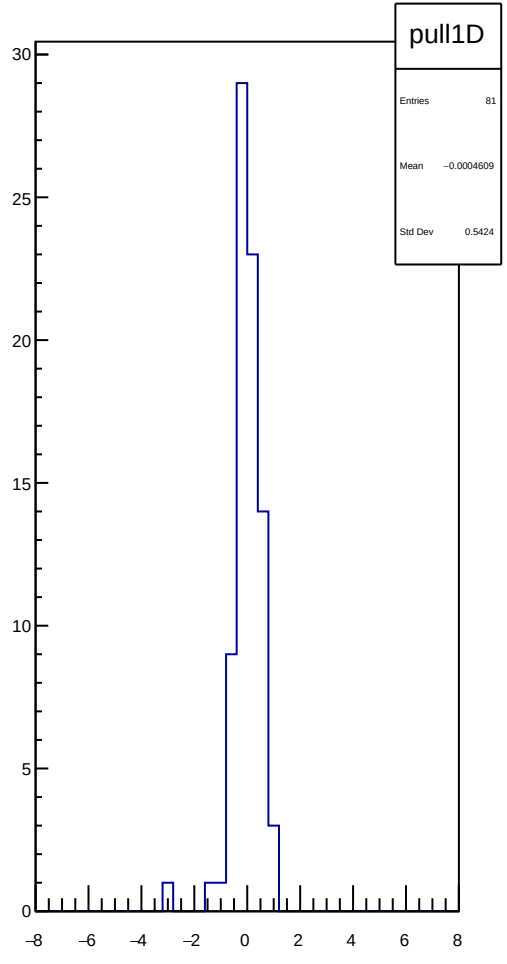

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 77.58 / 80
p0 −0.4159 ± 0.03078
pull
Entries 81
Mean 321
Std Dev 278.4
pull1D
Entries 81
Mean −0.07685
Std Dev 0.9756

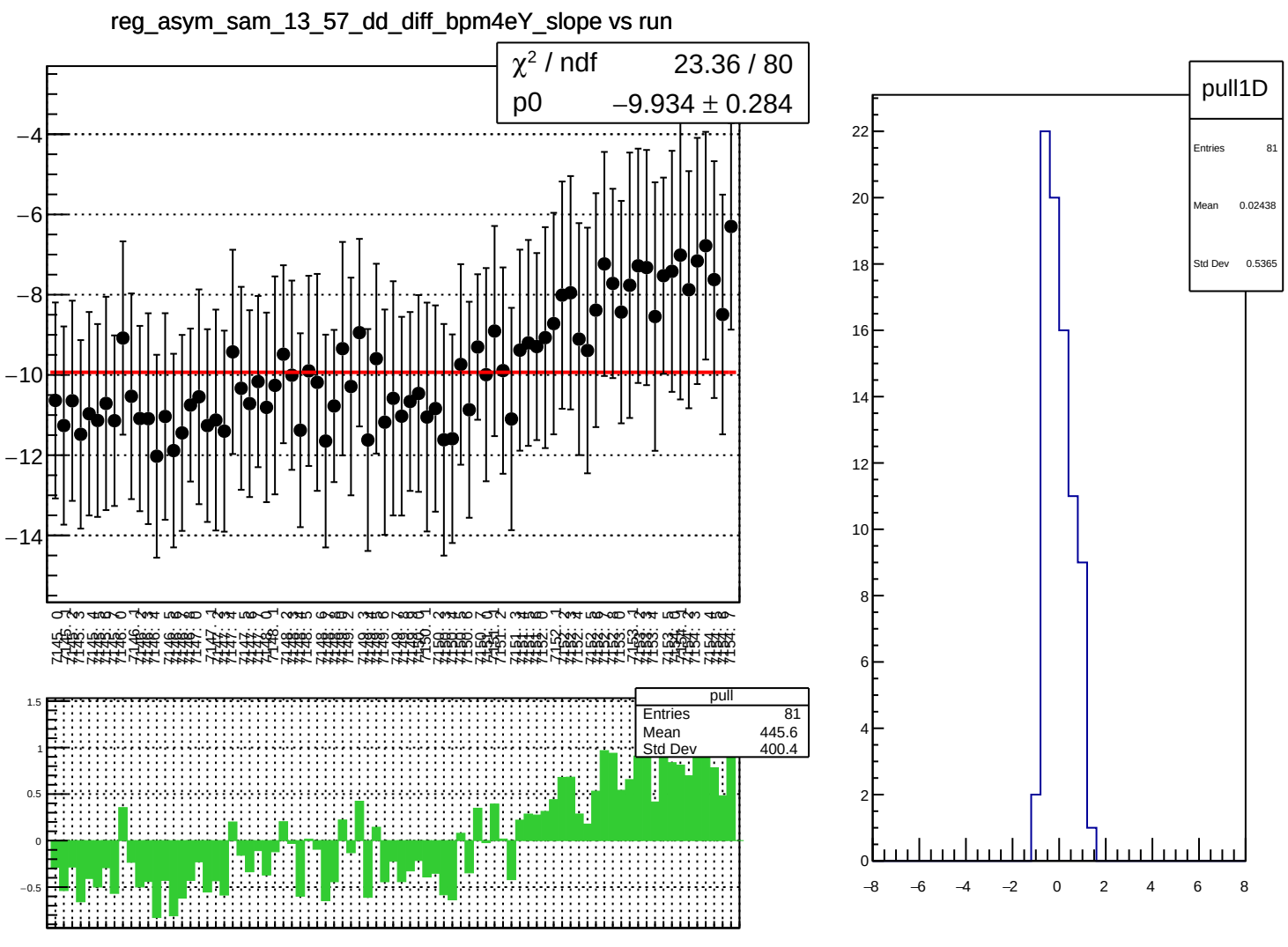

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 26.65 / 80
p0 −8.743 ± 0.3012
pull
Entries 81
Mean 725.6
Std Dev 683.7
pull1D
Entries 81
Mean 0.01115
Std Dev 0.5735

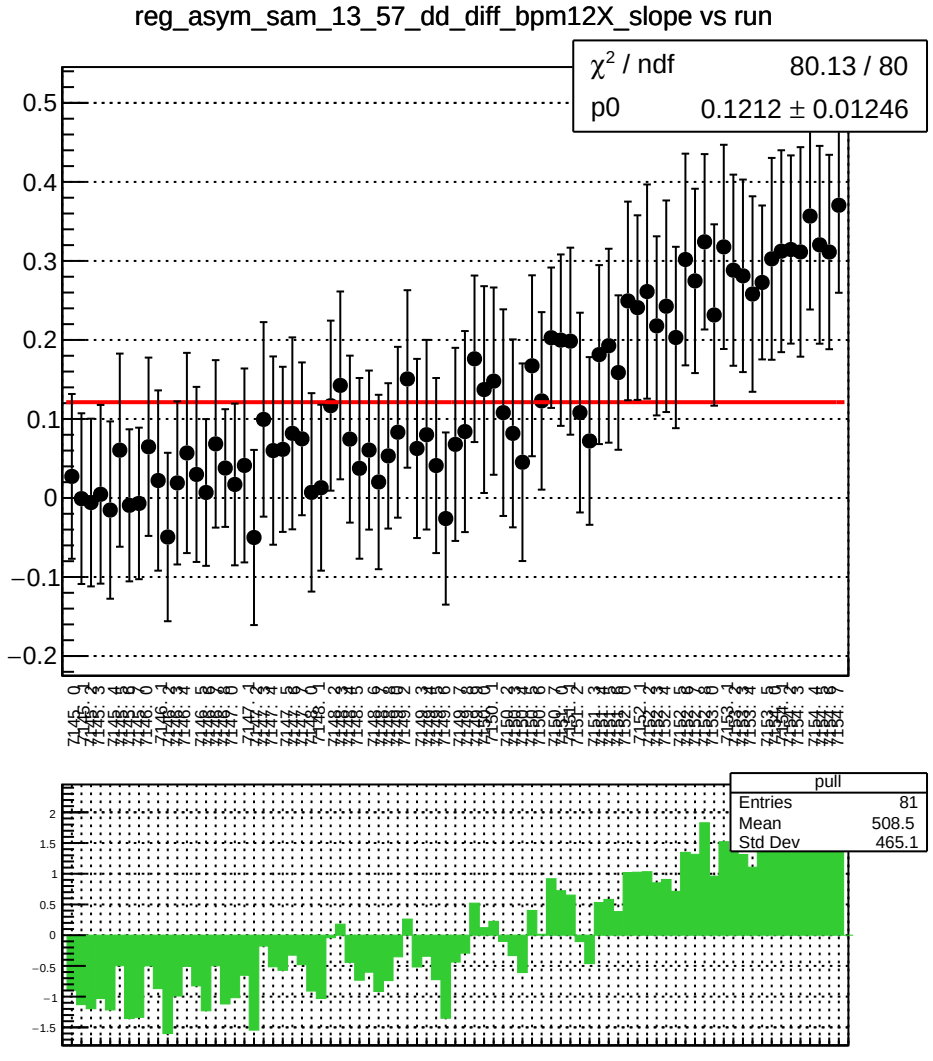

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.02 / 80
p0 −29.57 ± 0.2603
pull
Entries 81
Mean 720.3
Std Dev 675.5

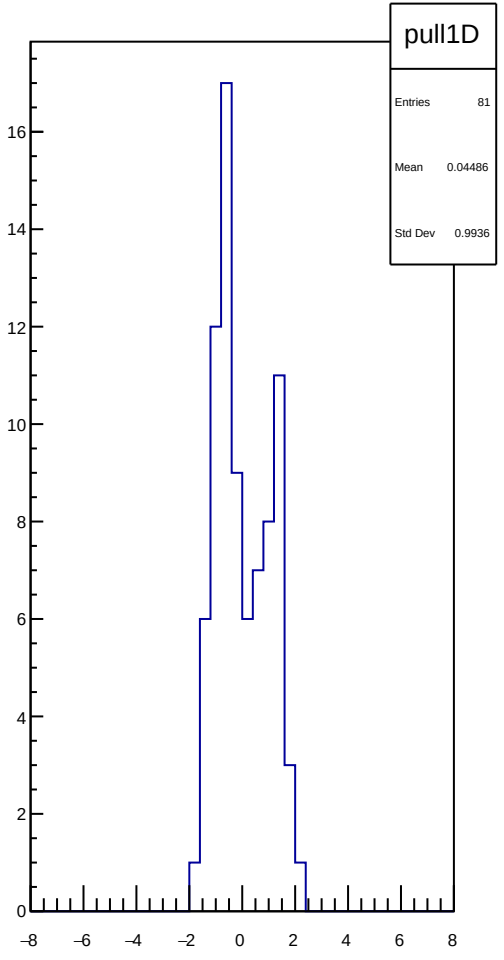

pull1D
Entries 81
Mean −0.009169
Std Dev 0.3852

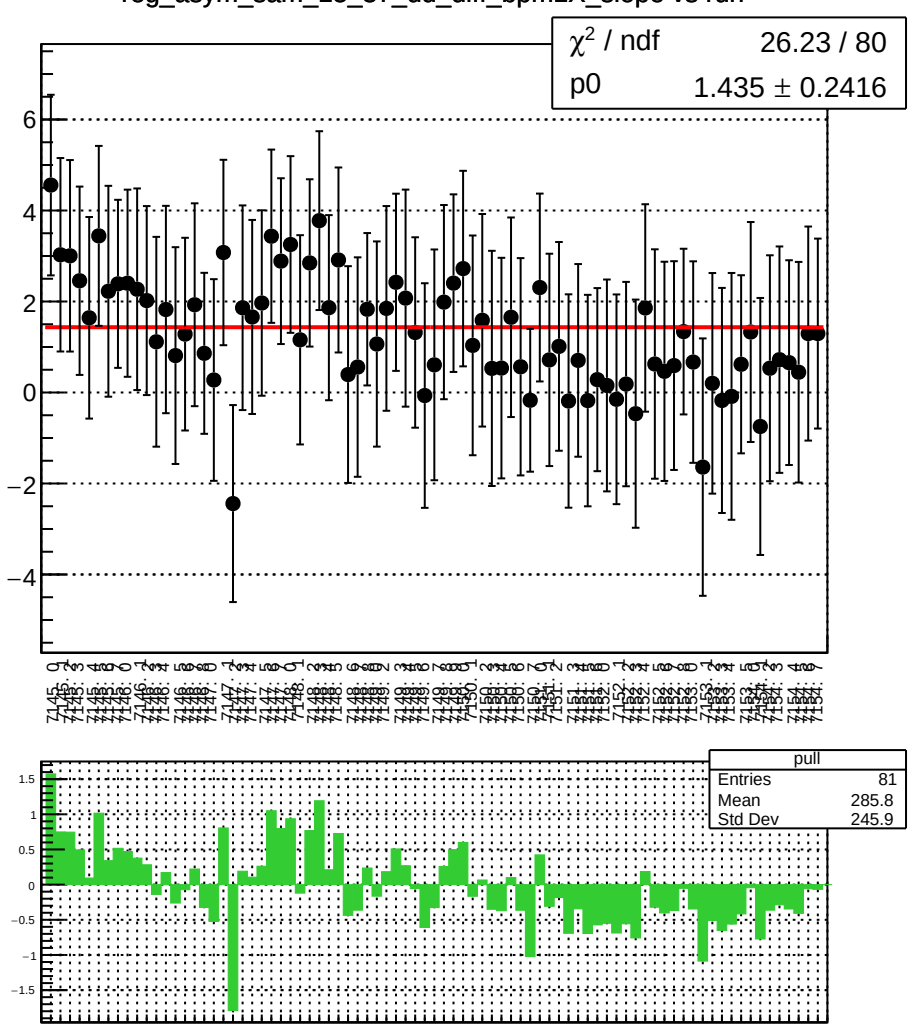

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.83 / 80
p0 −5.383 ± 0.3083
pull
Entries 81
Mean 1.212e+04
Std Dev 1.208e+04

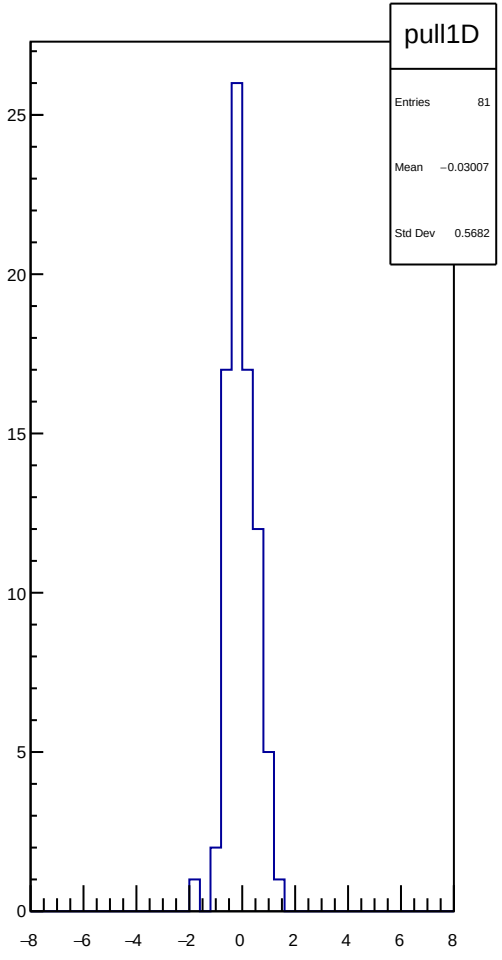

pull1D
Entries 81
Mean −0.0004609
Std Dev 0.5424

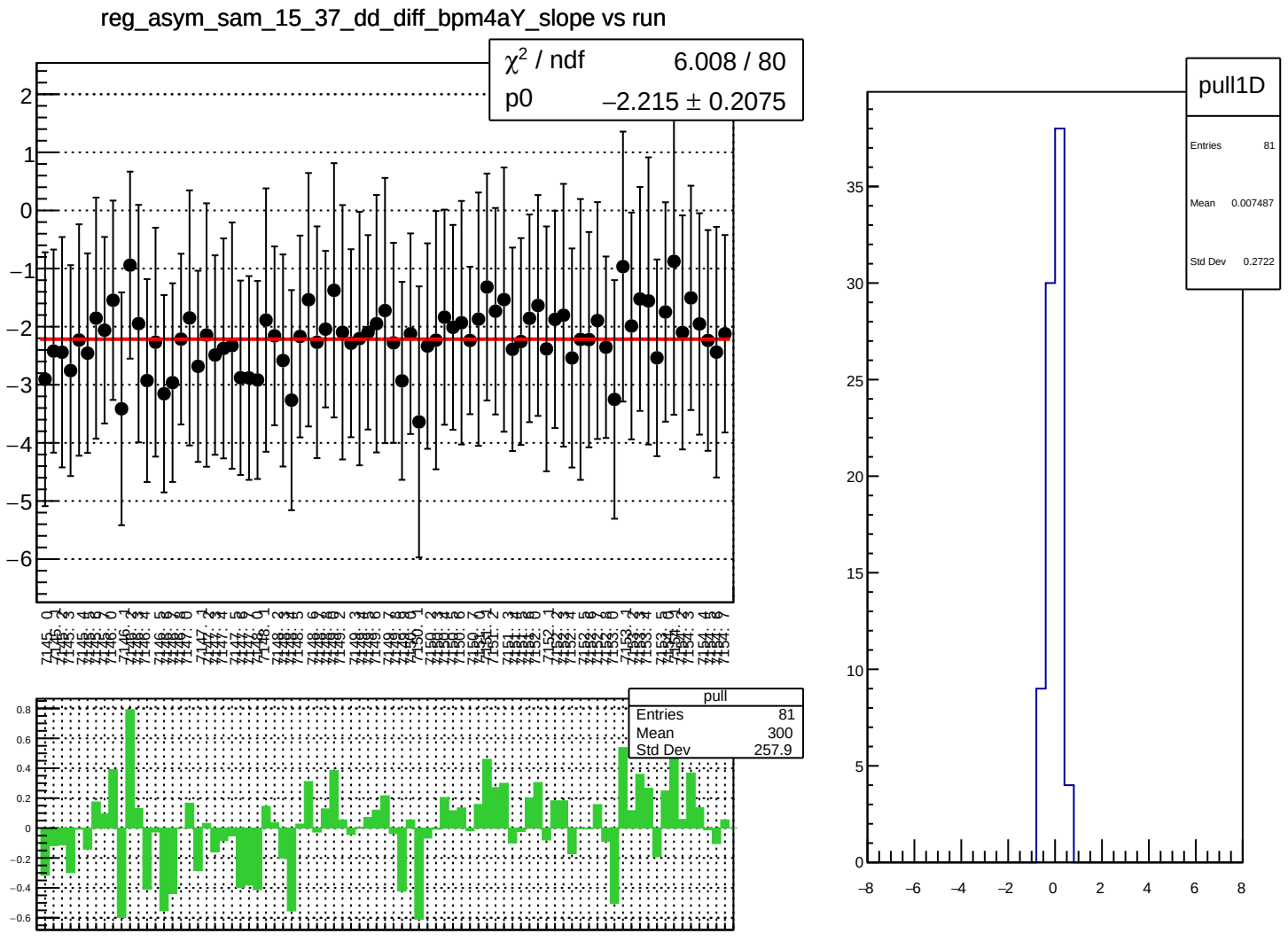

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.36 / 80
p0 −9.934 ± 0.284
pull
Entries 81
Mean 445.6
Std Dev 400.4
pull1D
Entries 81
Mean 0.02438
Std Dev 0.5365

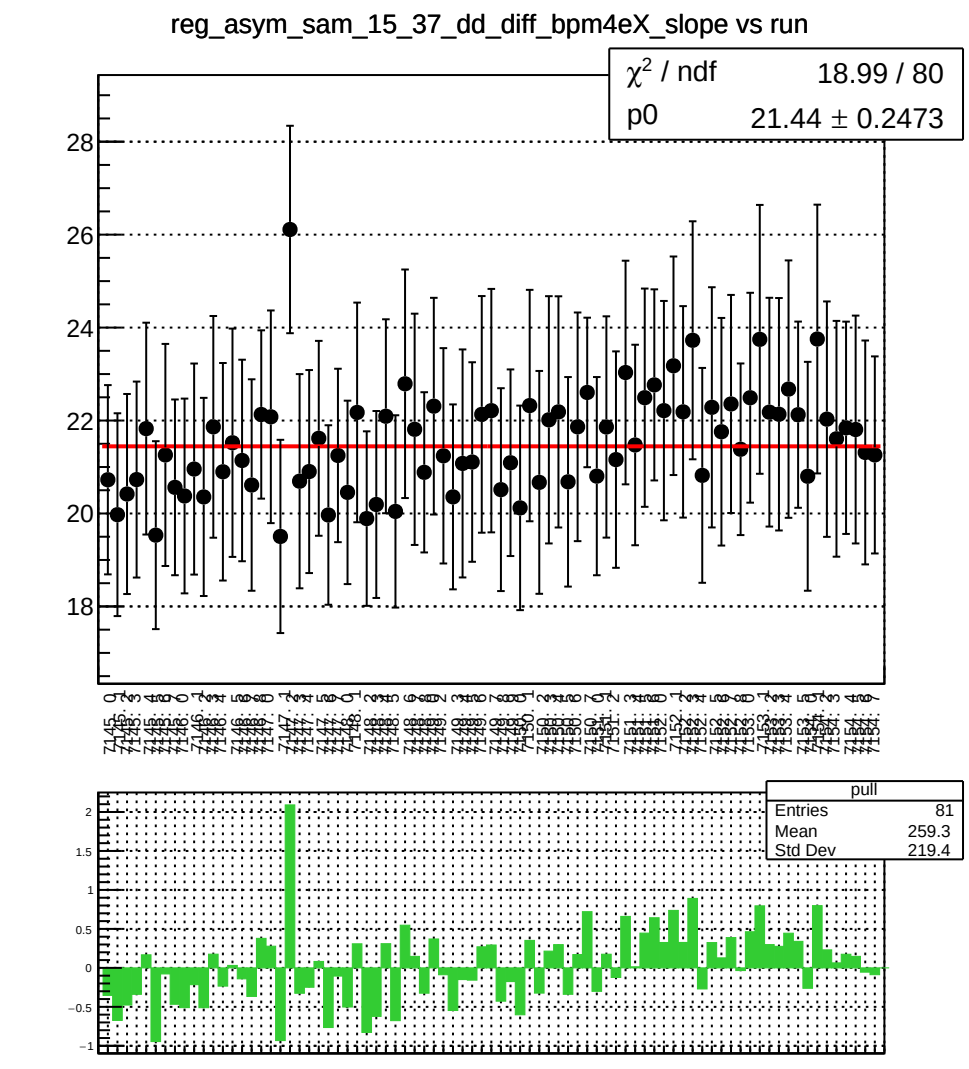

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 80.13 / 80
p0 0.1212 ± 0.01246
pull
Entries 81
Mean 508.5
Std Dev 465.1

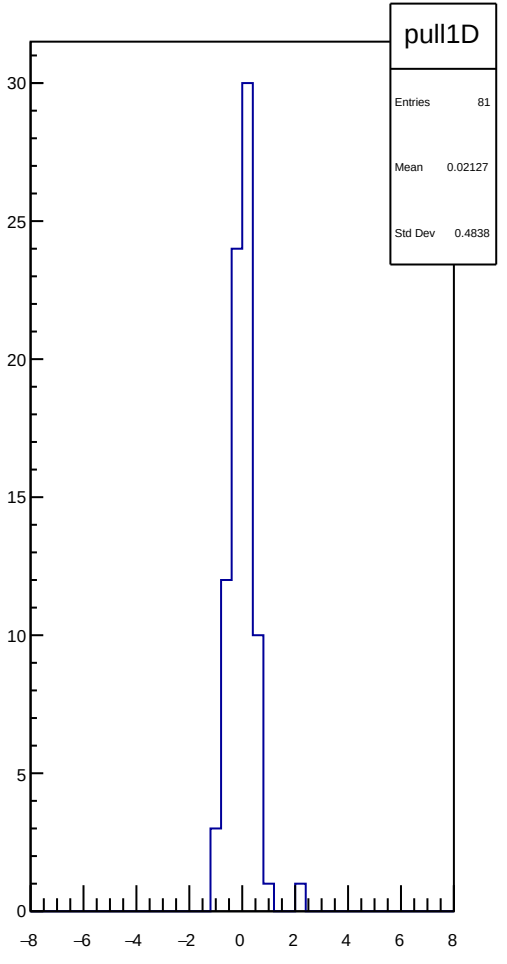

pull1D
Entries 81
Mean 0.04486
Std Dev 0.9936

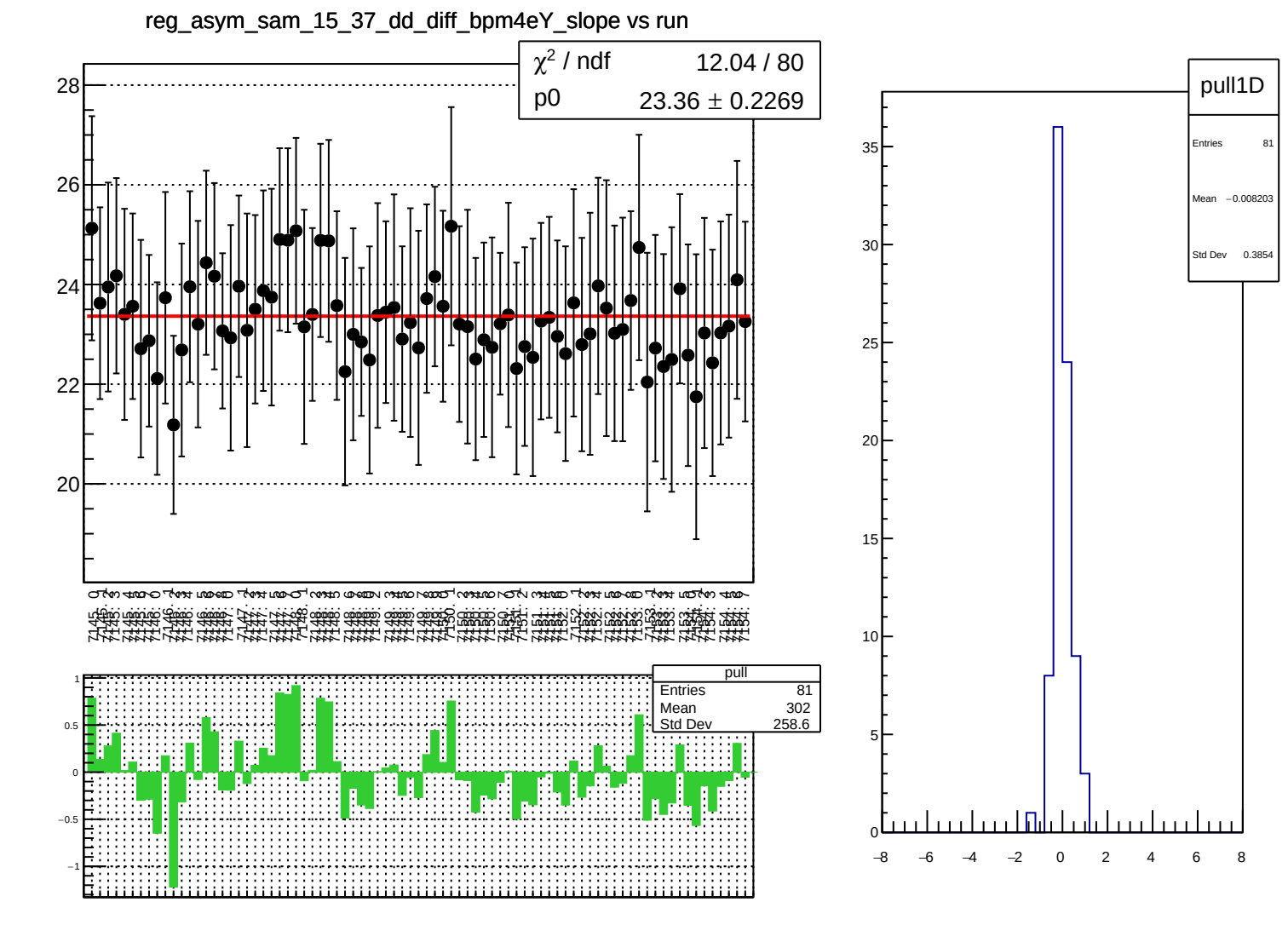

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 26.23 / 80
p0 1.435 ± 0.2416
pull
Entries 81
Mean 285.8
Std Dev 245.9

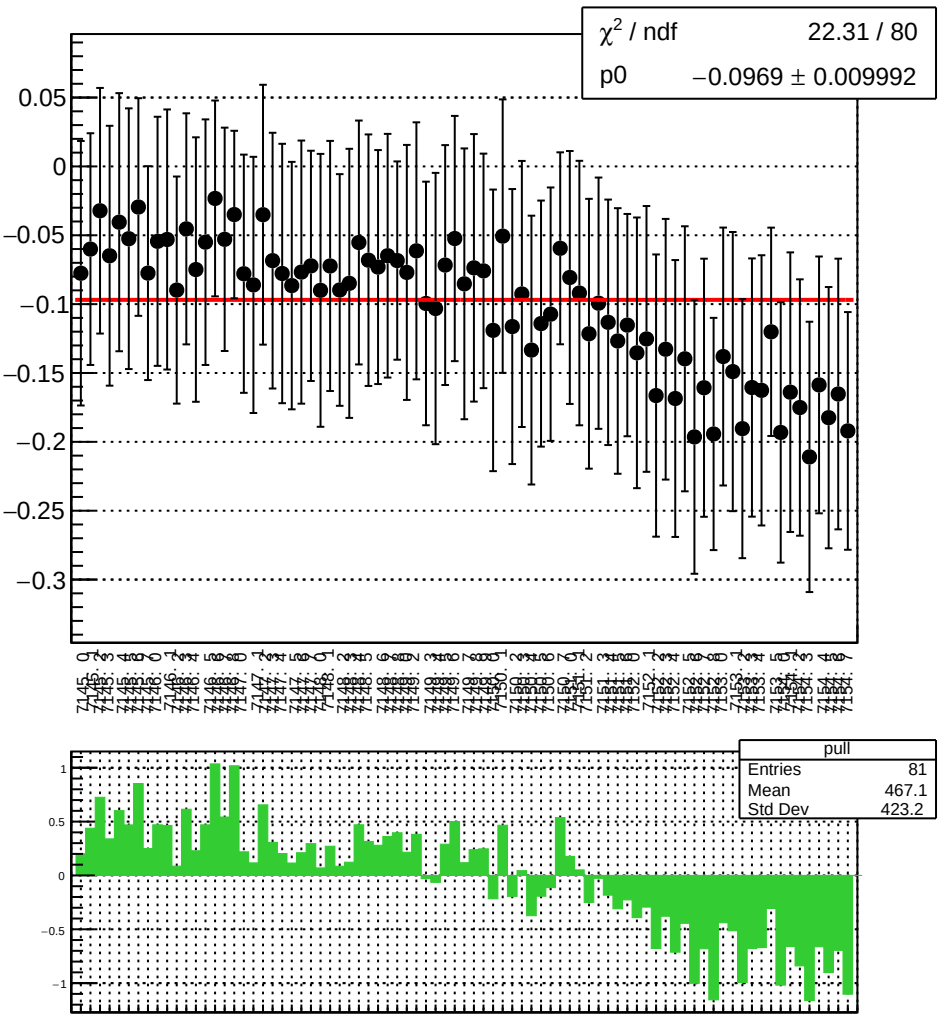

pull1D
Entries 81
Mean −0.03007
Std Dev 0.5682

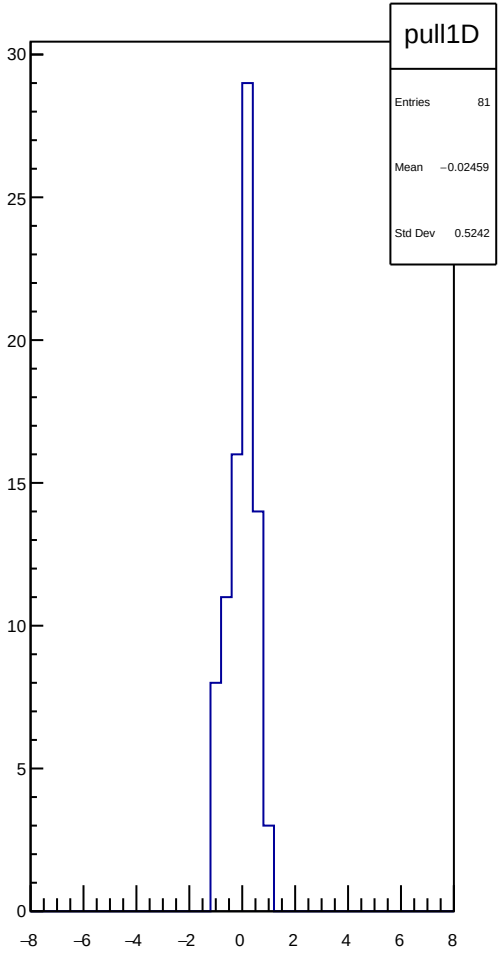

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.008 / 80
p0 −2.215 ± 0.2075
pull
Entries 81
Mean 300
Std Dev 257.9
pull1D
Entries 81
Mean 0.007487
Std Dev 0.2722

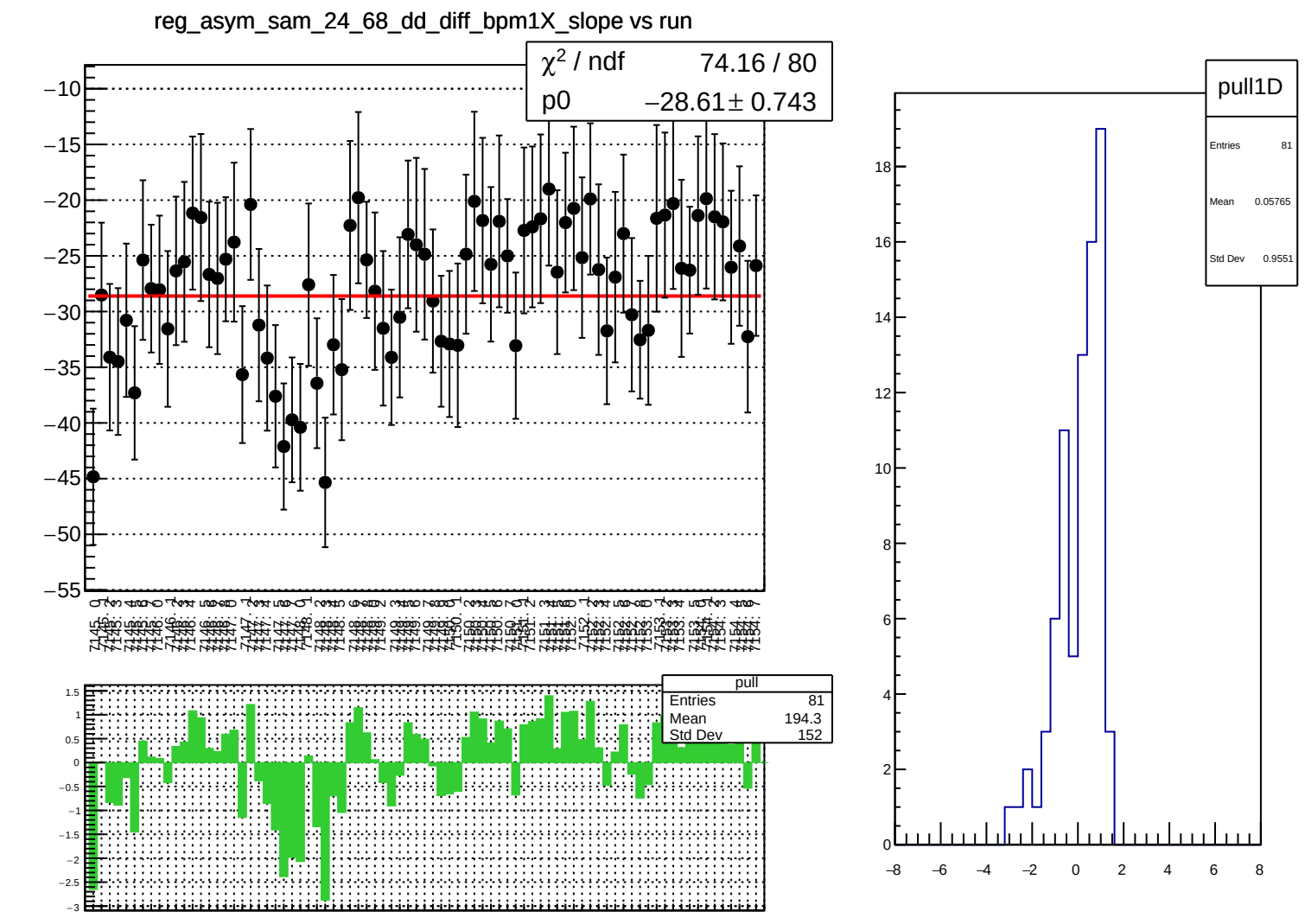

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.99 / 80
p0 21.44 ± 0.2473
pull
Entries 81
Mean 259.3
Std Dev 219.4

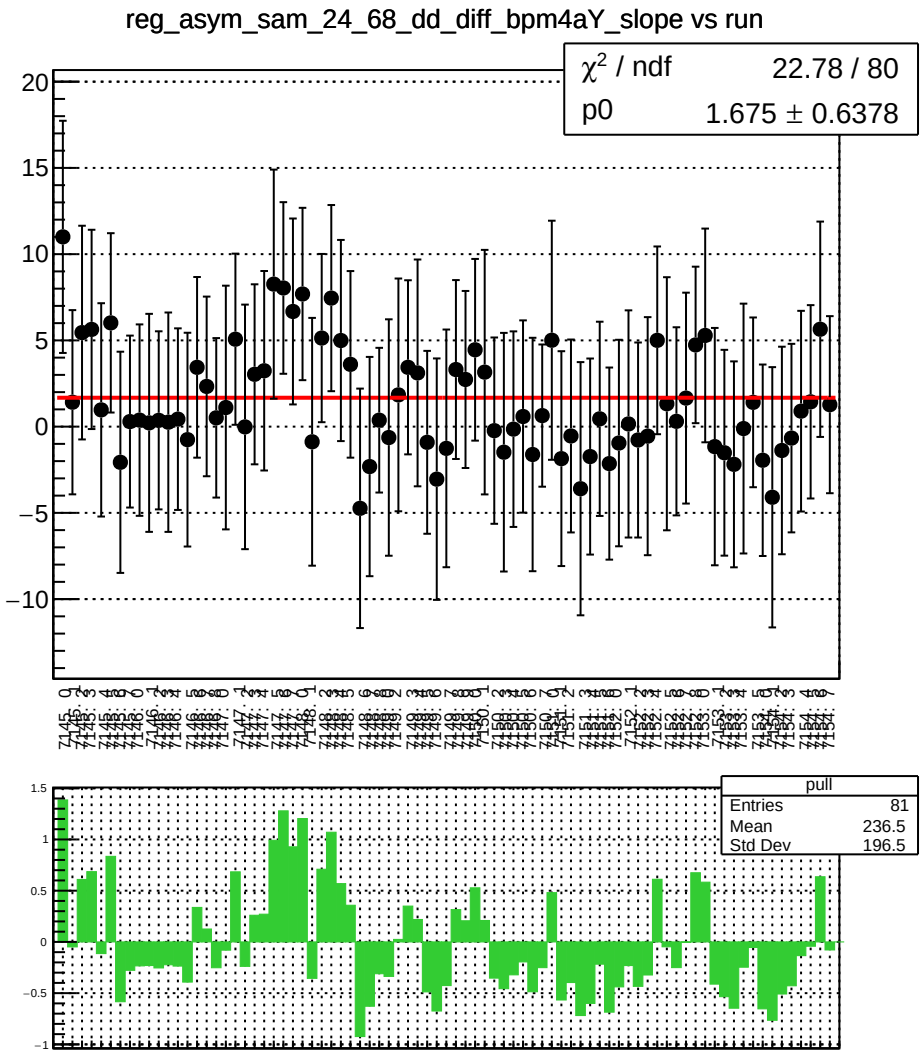

pull1D
Entries 81
Mean 0.02127
Std Dev 0.4838

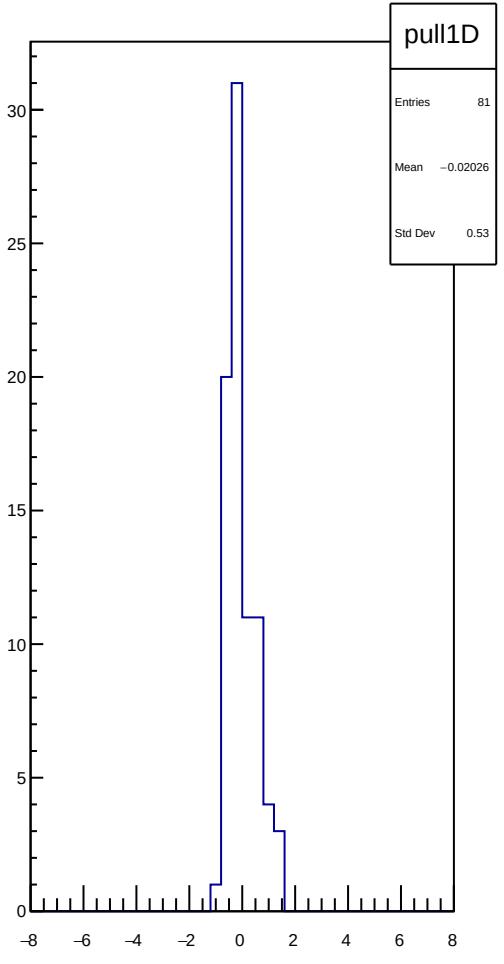

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.04 / 80
p0 23.36 ± 0.2269
pull
Entries 81
Mean 302
Std Dev 258.6
pull1D
Entries 81
Mean −0.008203
Std Dev 0.3854

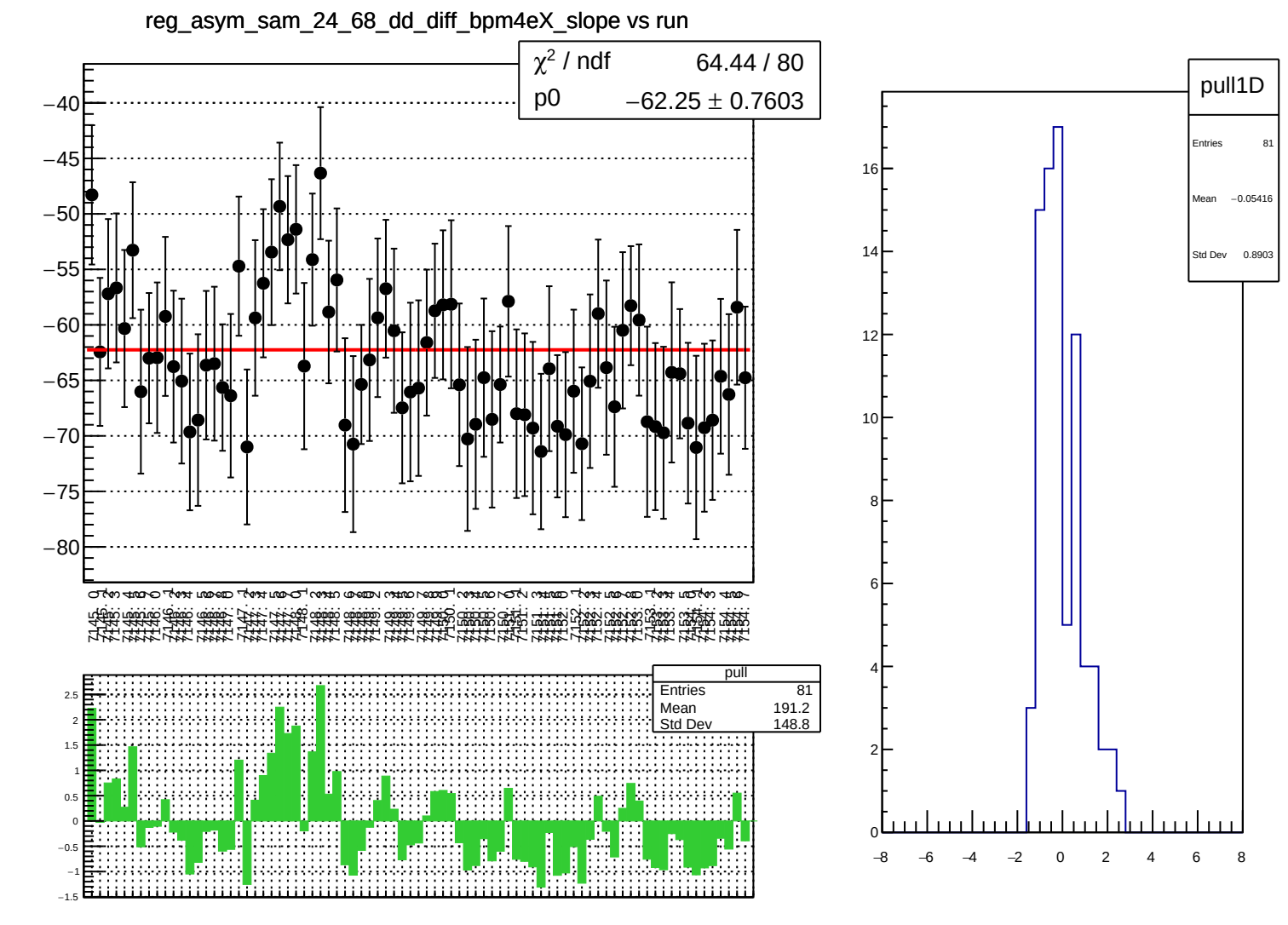

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 22.31 / 80
p0 −0.0969 ± 0.009992
pull
Entries 81
Mean 467.1
Std Dev 423.2

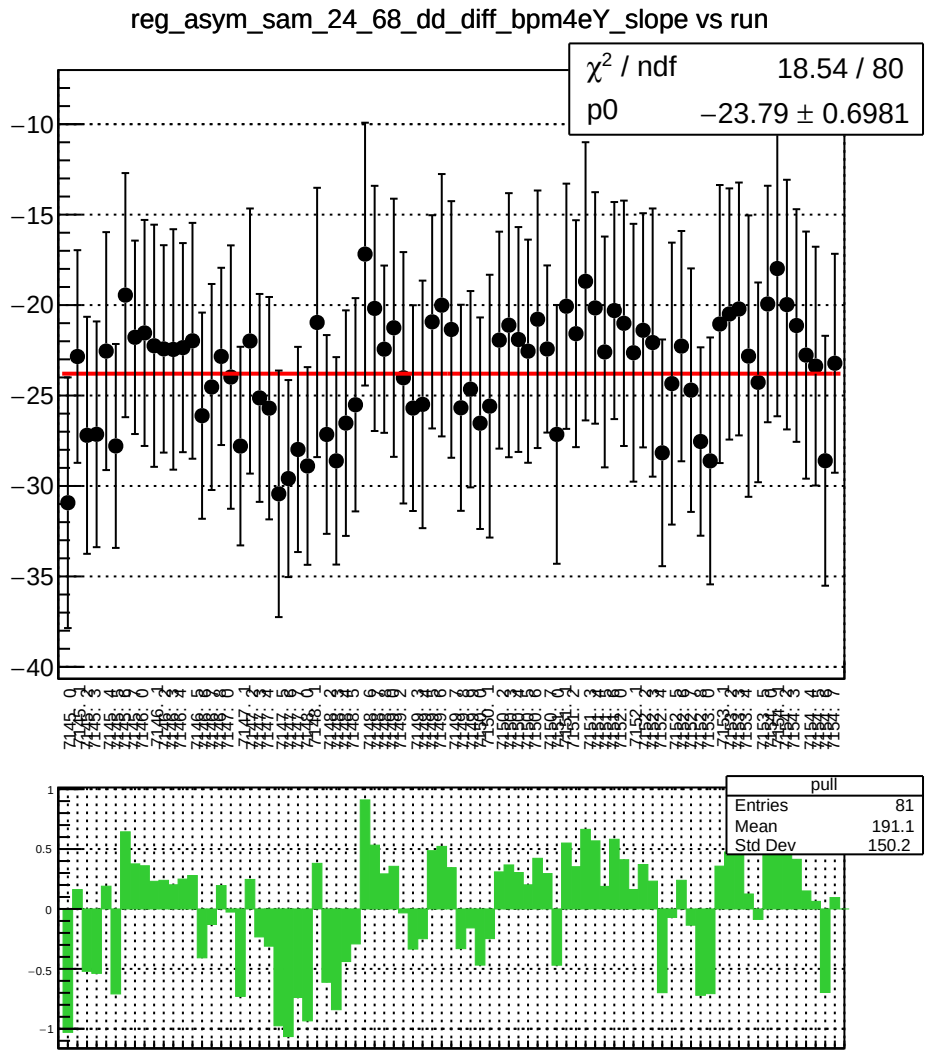

pull1D
Entries 81
Mean −0.02459
Std Dev 0.5242

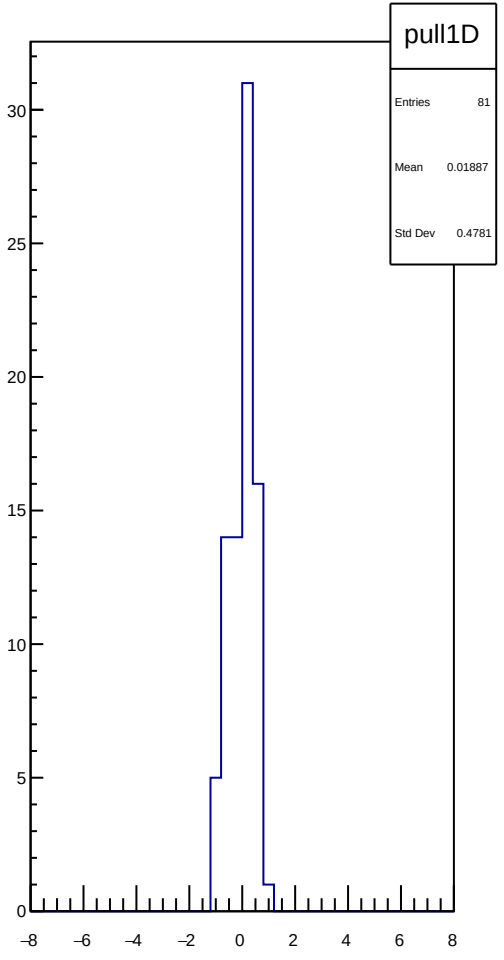

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 74.16 / 80
p0 −28.61 ± 0.743
pull
Entries 81
Mean 194.3
Std Dev 152
pull1D
Entries 81
Mean 0.05765
Std Dev 0.9551

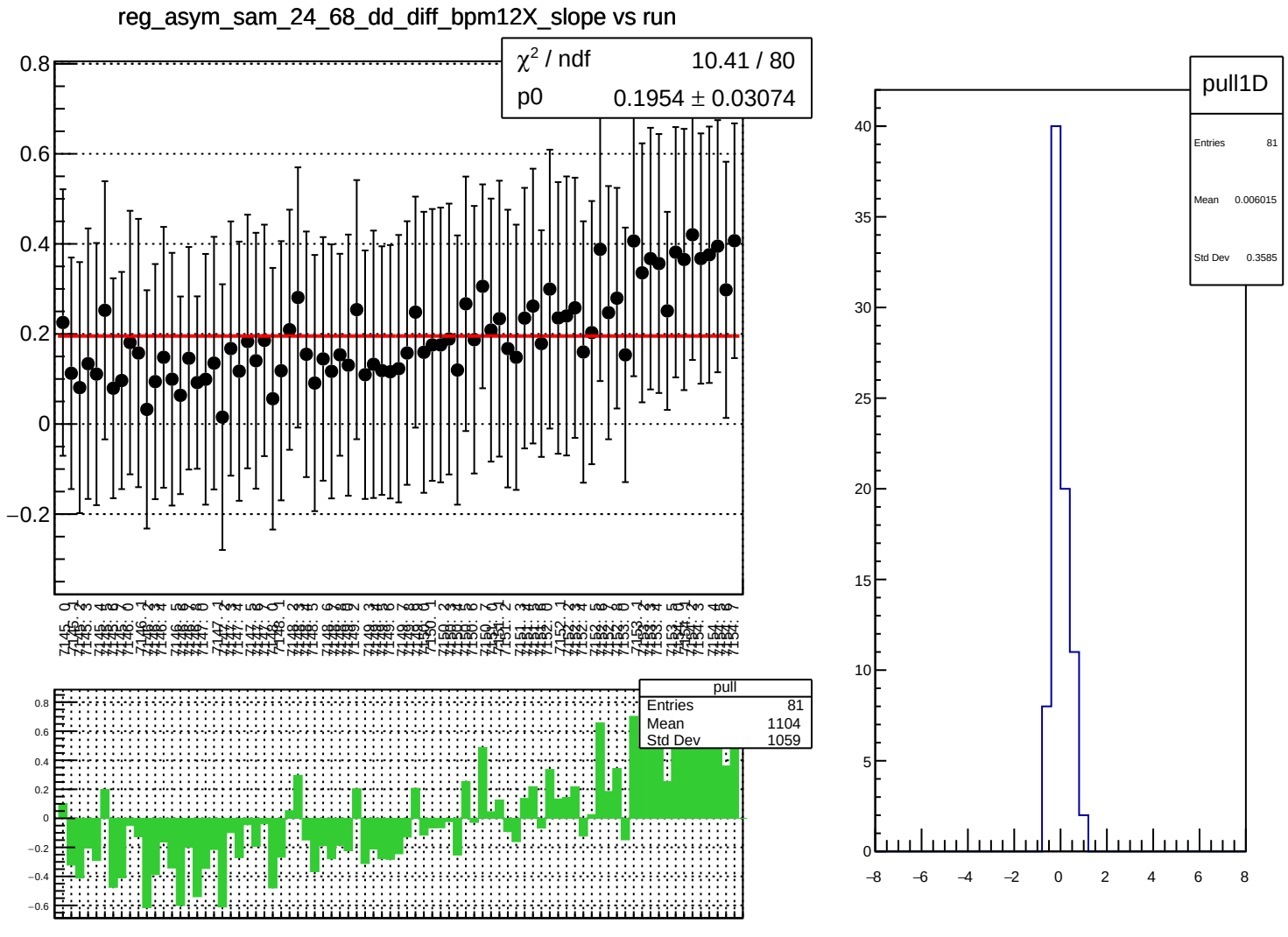

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.78 / 80
p0 1.675 ± 0.6378
pull
Entries 81
Mean 236.5
Std Dev 196.5

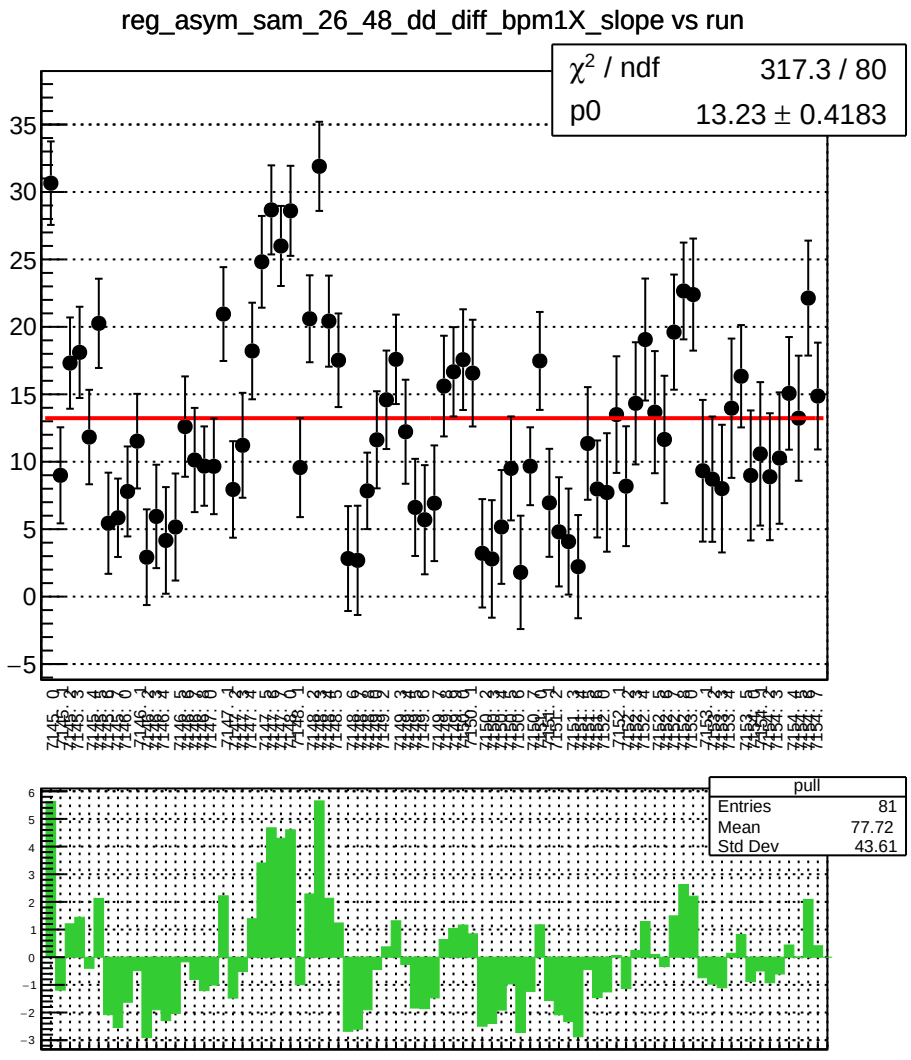

pull1D
Entries 81
Mean −0.02026
Std Dev 0.53

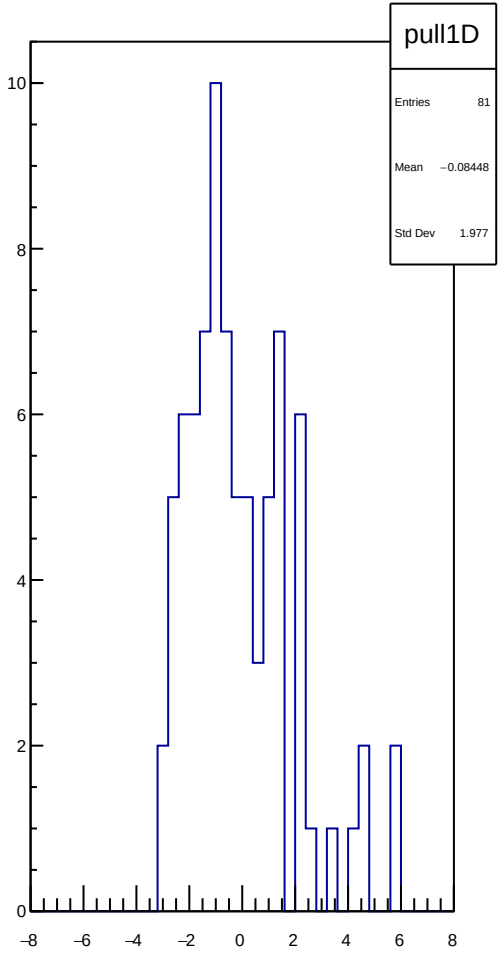

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.44 / 80
p0 −62.25 ± 0.7603
pull
Entries 81
Mean 191.2
Std Dev 148.8
pull1D
Entries 81
Mean −0.05416
Std Dev 0.8903

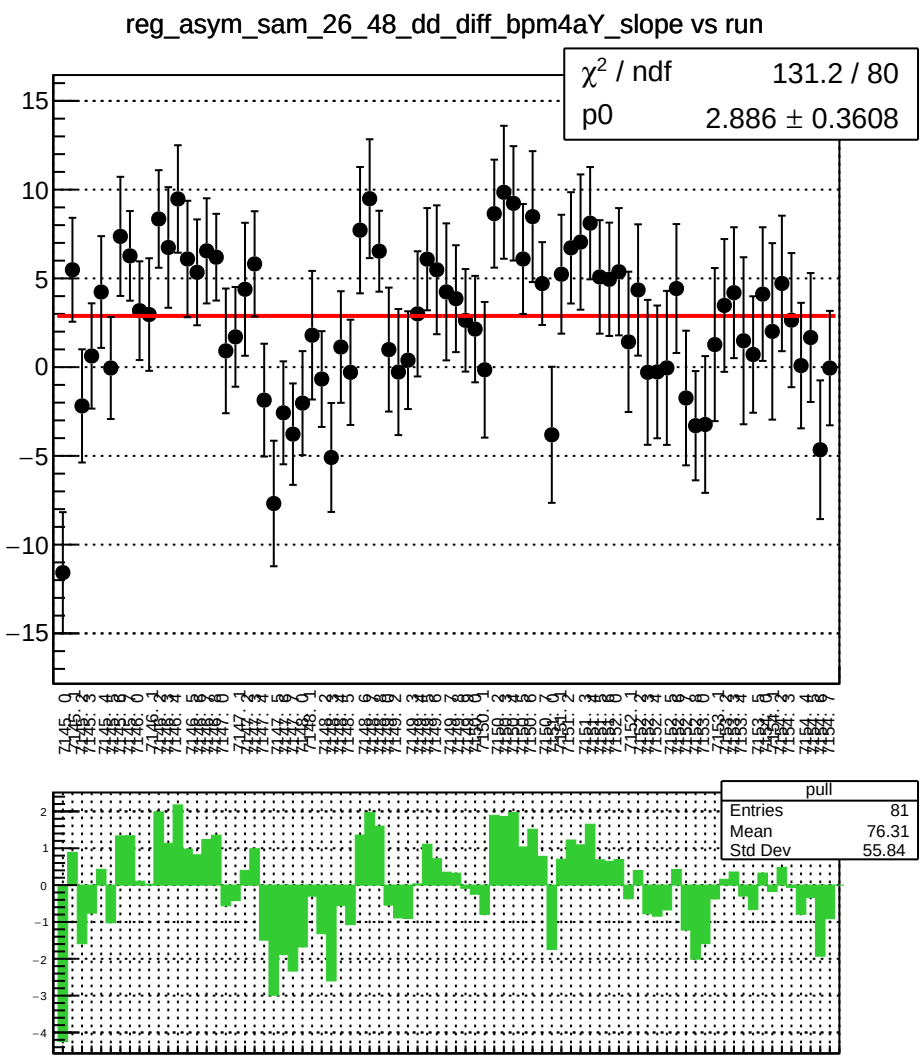

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.54 / 80
p0 −23.79 ± 0.6981
pull
Entries 81
Mean 191.1
Std Dev 150.2

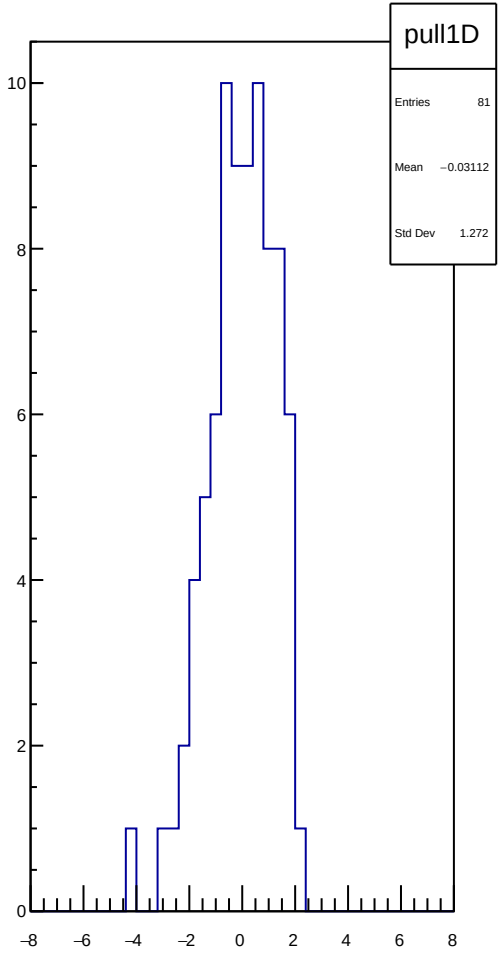

pull1D
Entries 81
Mean 0.01887
Std Dev 0.4781

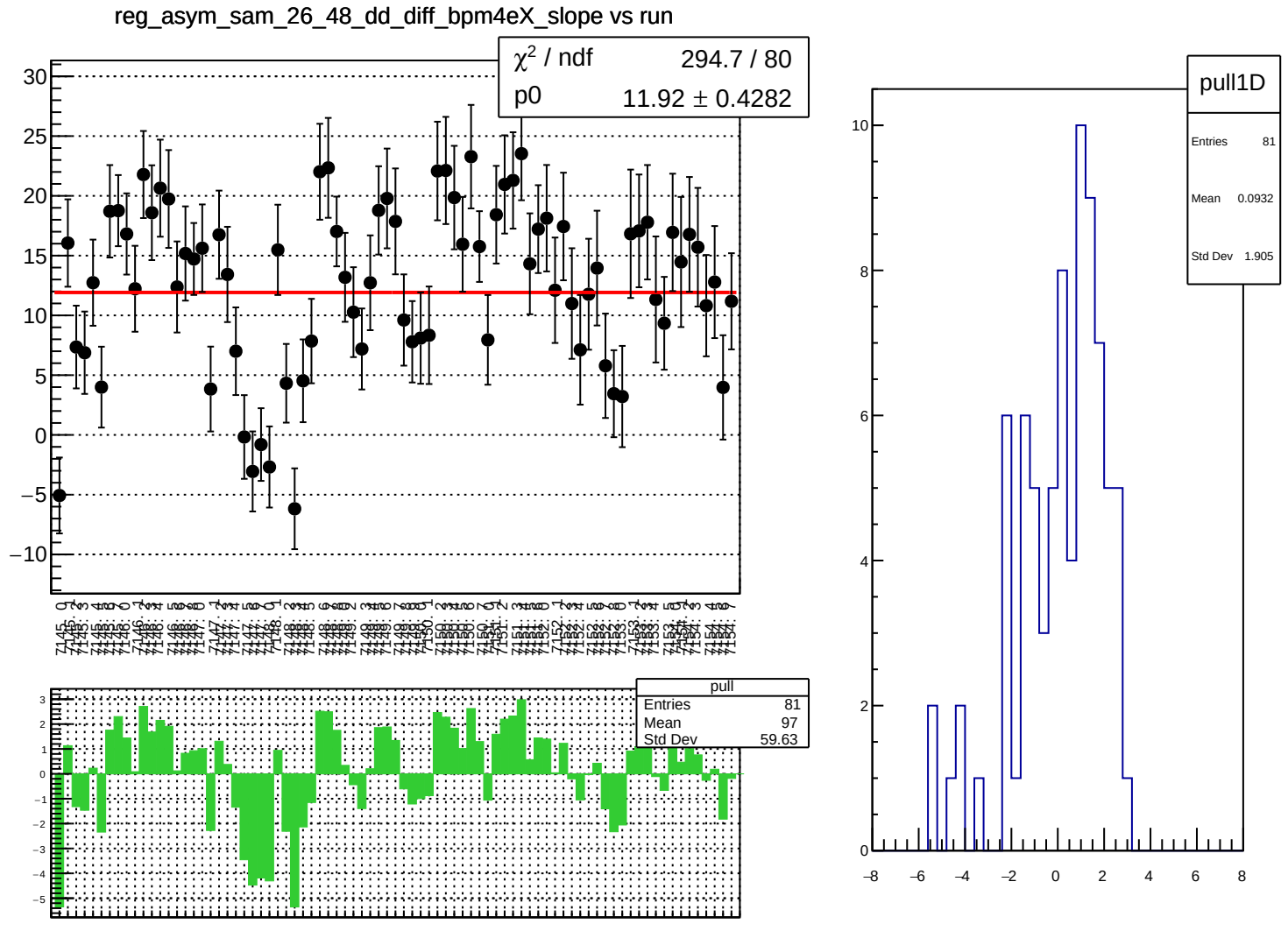

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 10.41 / 80
p0 0.1954 ± 0.03074
pull
Entries 81
Mean 1104
Std Dev 1059
pull1D
Entries 81
Mean 0.006015
Std Dev 0.3585

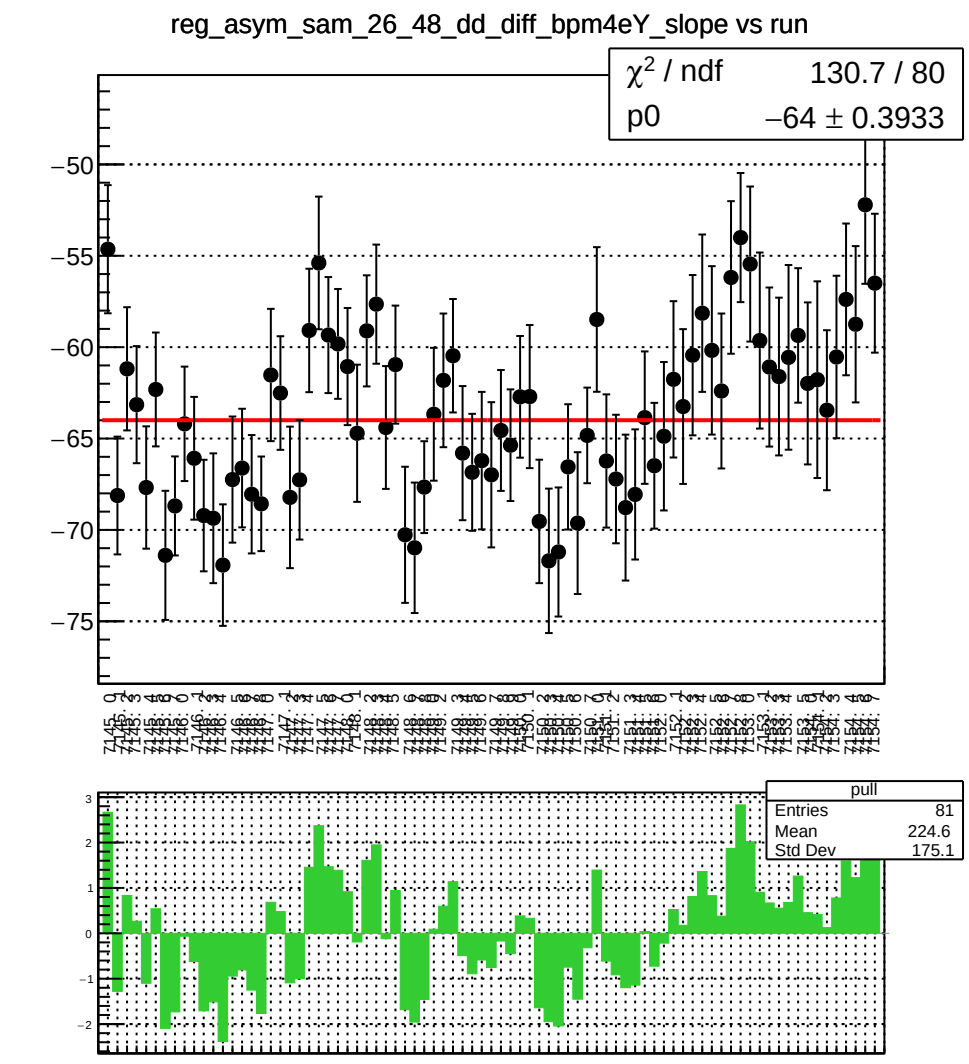

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 317.3 / 80
p0 13.23 ± 0.4183
pull
Entries 81
Mean 77.72
Std Dev 43.61

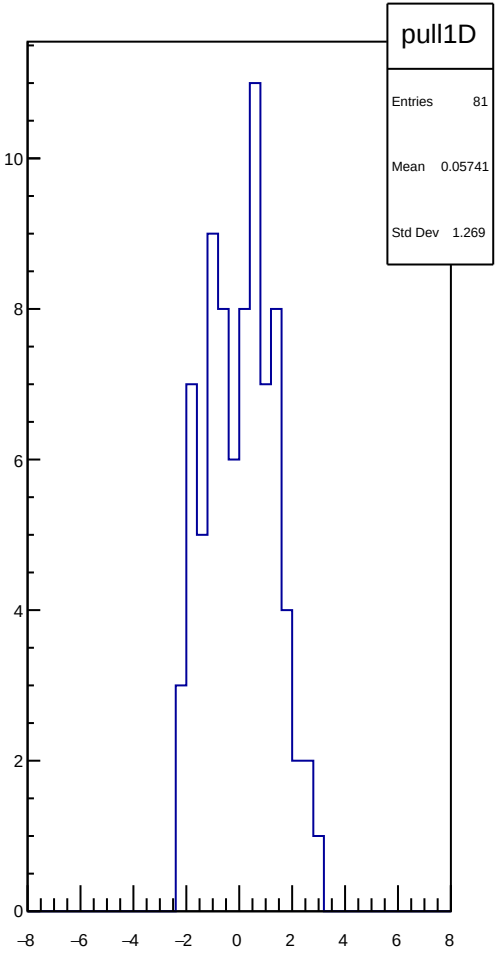

pull1D
Entries 81
Mean −0.08448
Std Dev 1.977

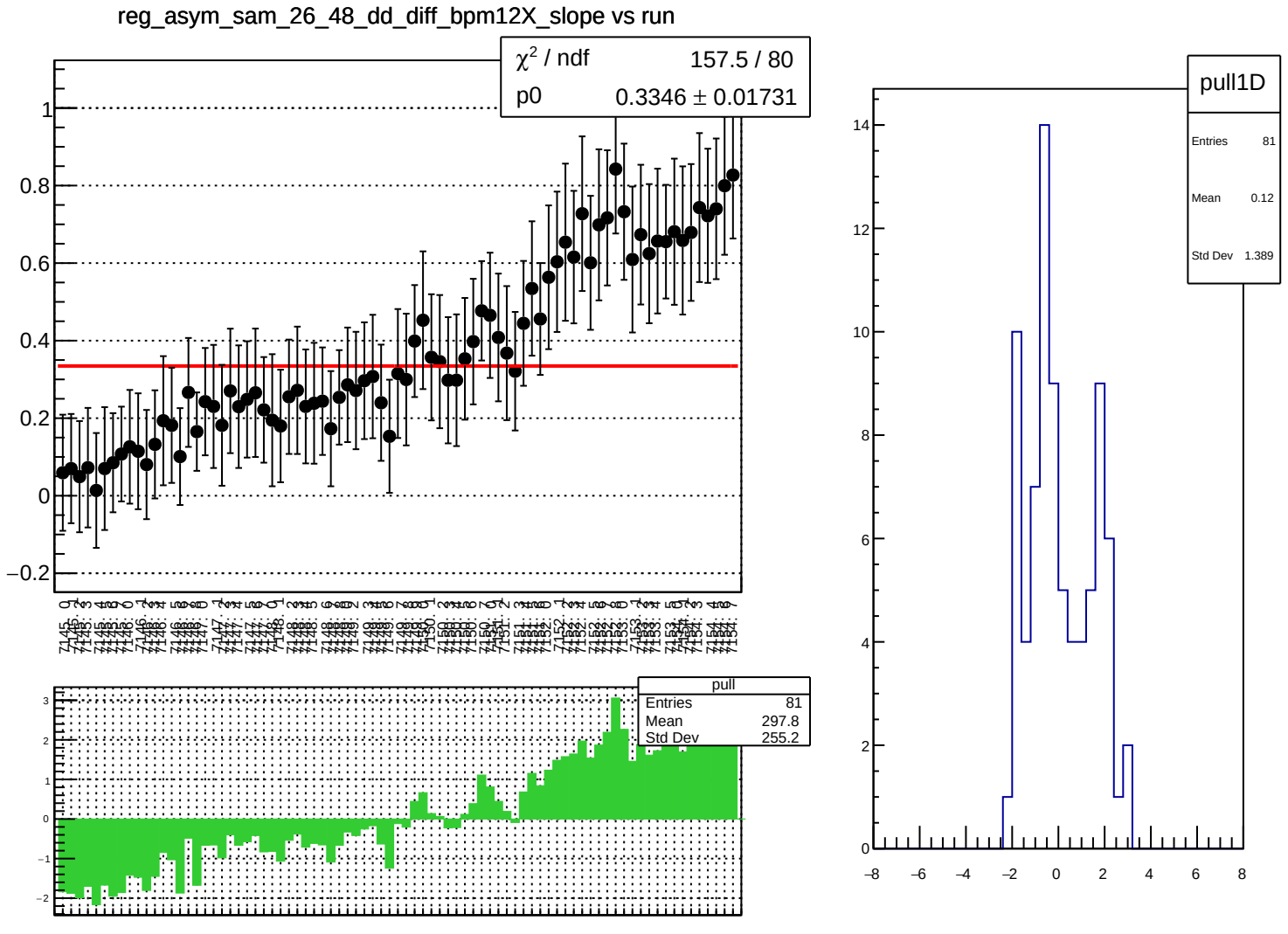

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 131.2 / 80
p0 2.886 ± 0.3608
pull
Entries 81
Mean 76.31
Std Dev 55.84

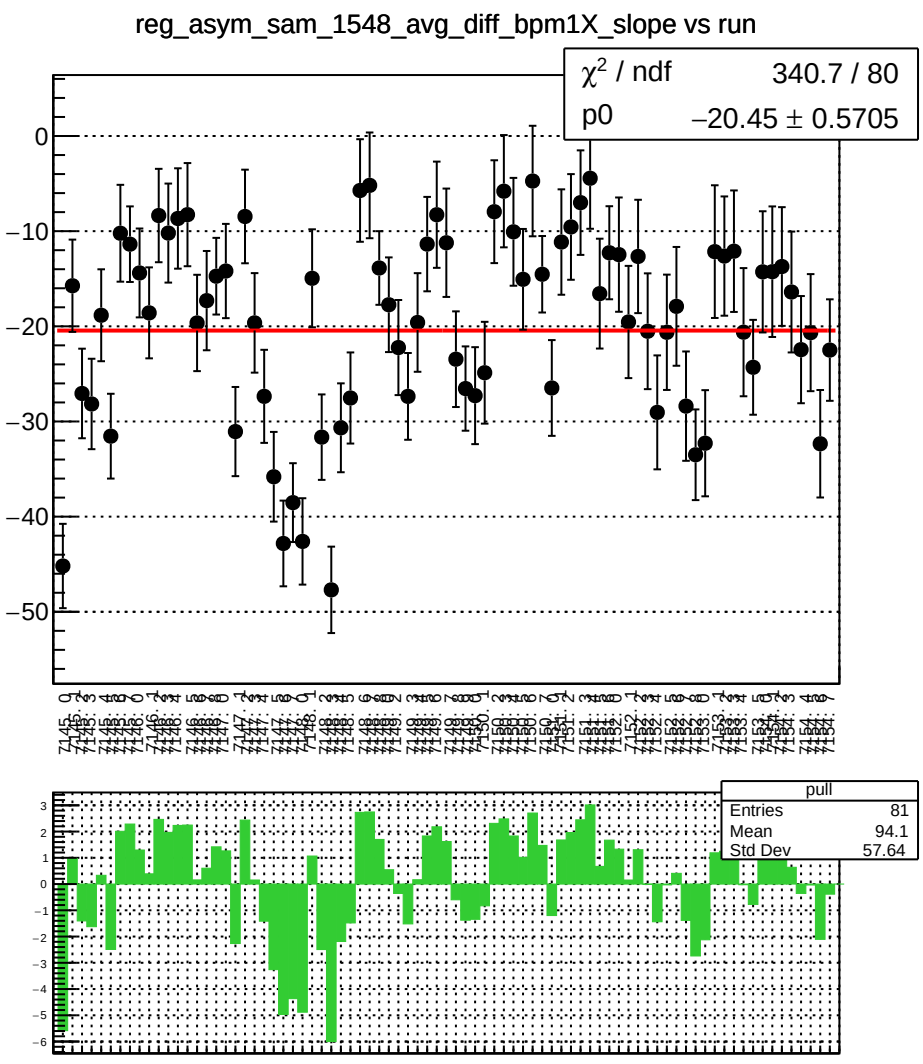

pull1D
Entries 81
Mean −0.03112
Std Dev 1.272

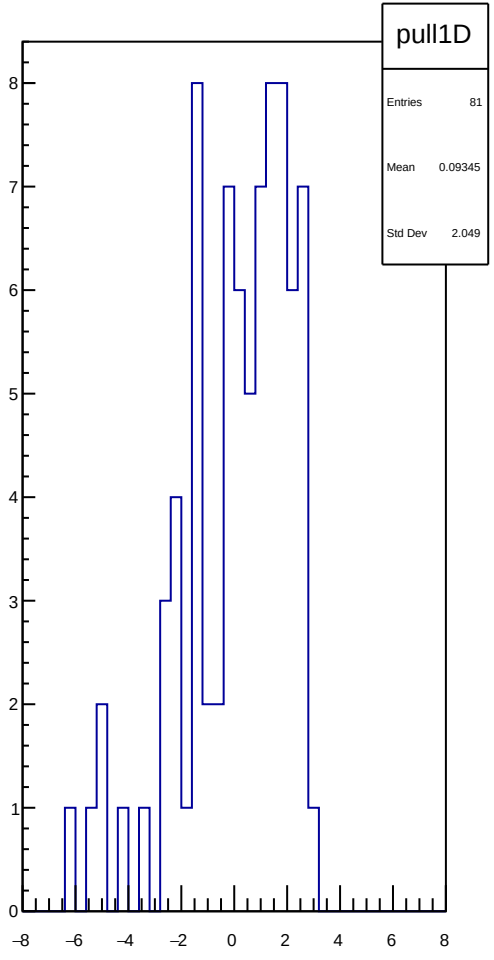

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 294.7 / 80
p0 11.92 ± 0.4282
pull
Entries 81
Mean 97
Std Dev 59.63
pull1D
Entries 81
Mean 0.0932
Std Dev 1.905

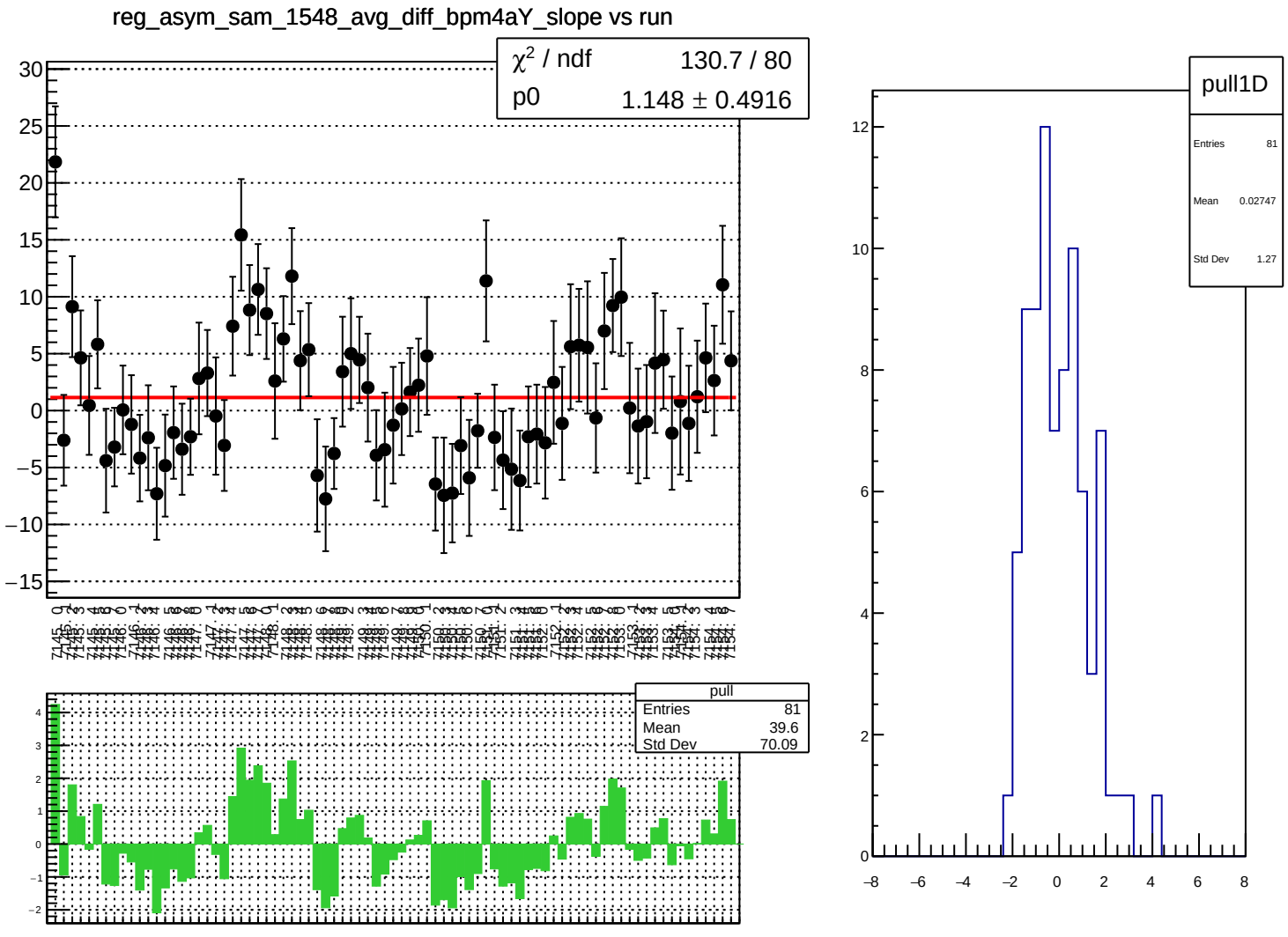

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 130.7 / 80
p0 −64 ± 0.3933
pull
Entries 81
Mean 224.6
Std Dev 175.1

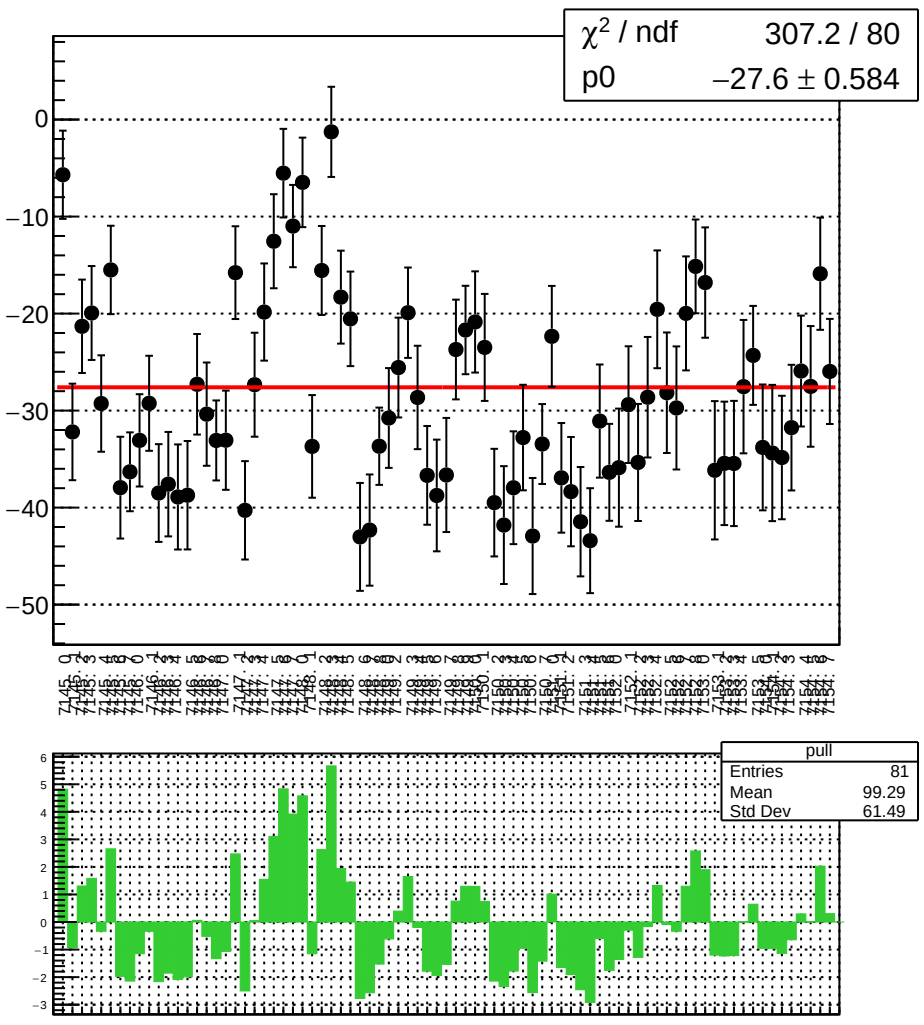

pull1D
Entries 81
Mean 0.05741
Std Dev 1.269

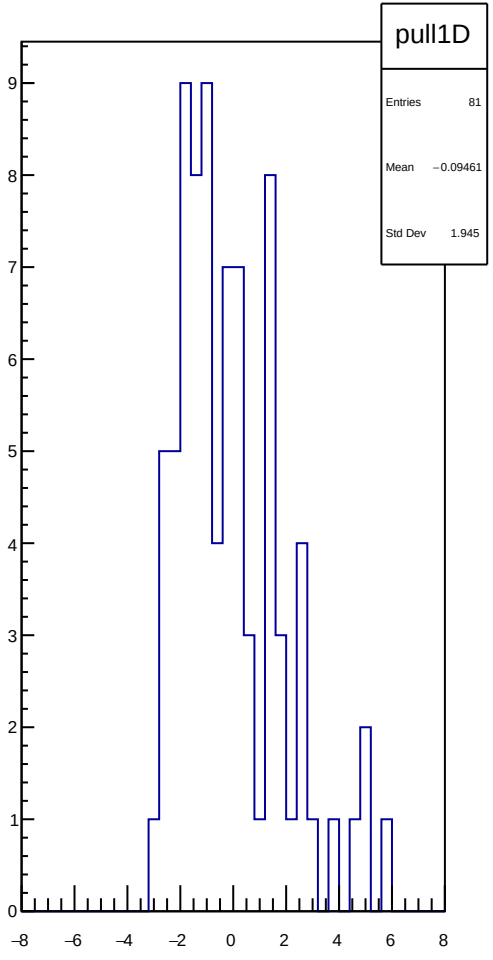

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 157.5 / 80
p0 0.3346 ± 0.01731
pull
Entries 81
Mean 297.8
Std Dev 255.2
pull1D
Entries 81
Mean 0.12
Std Dev 1.389

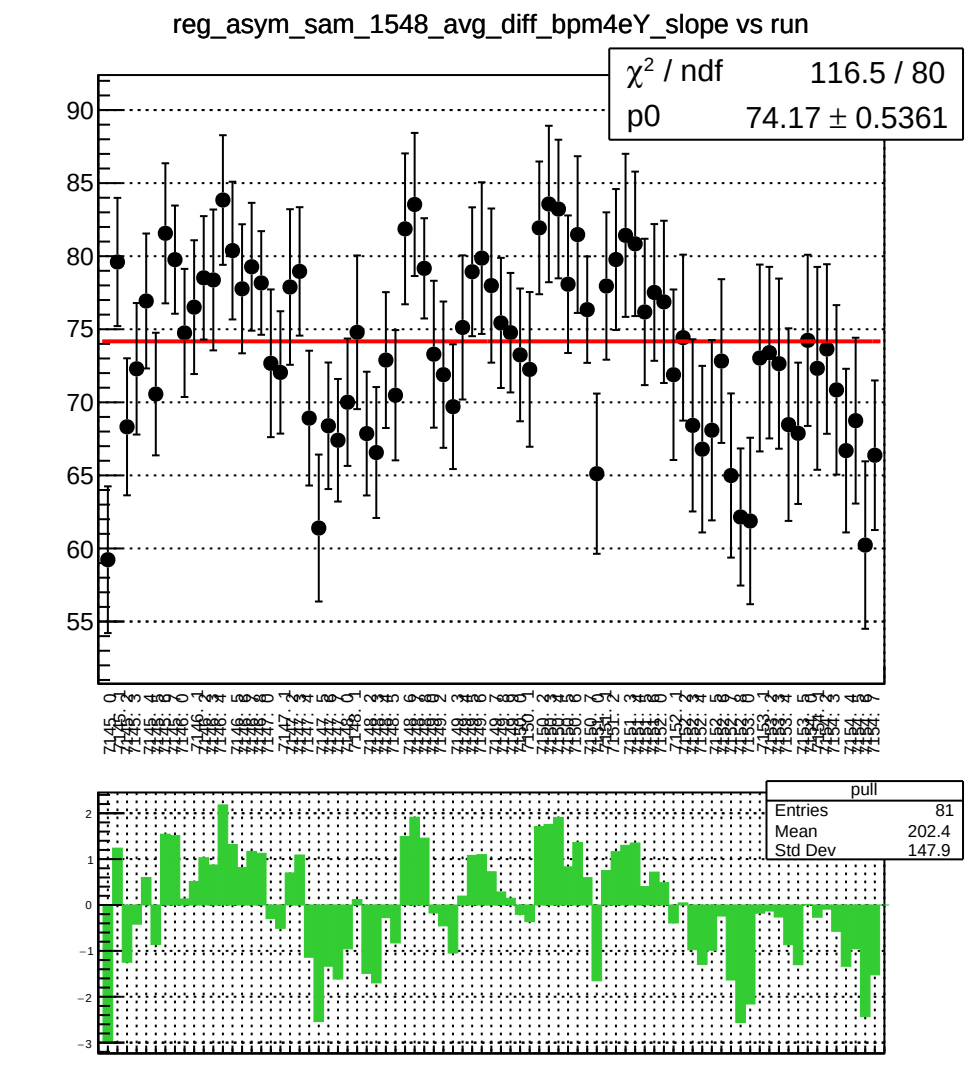

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 340.7 / 80
p0 −20.45 ± 0.5705
pull
Entries 81
Mean 94.1
Std Dev 57.64

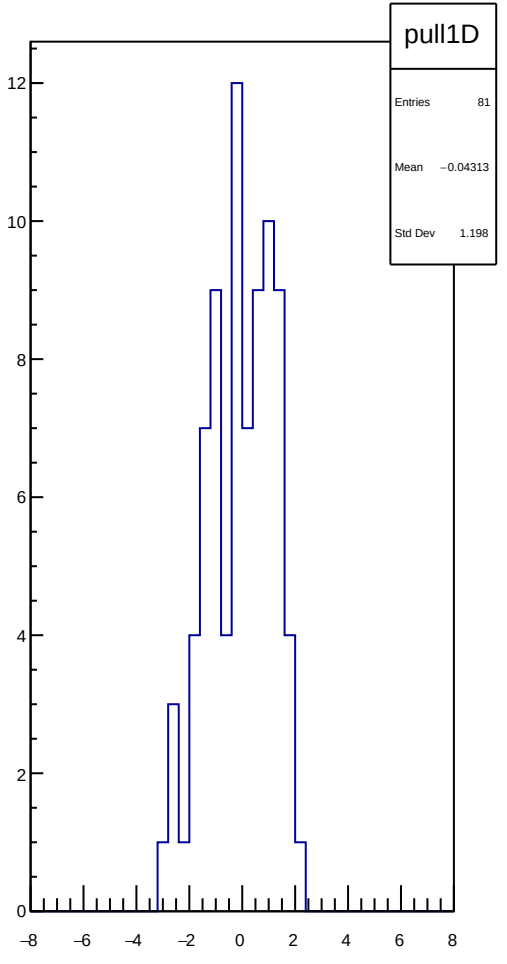

pull1D
Entries 81
Mean 0.09345
Std Dev 2.049

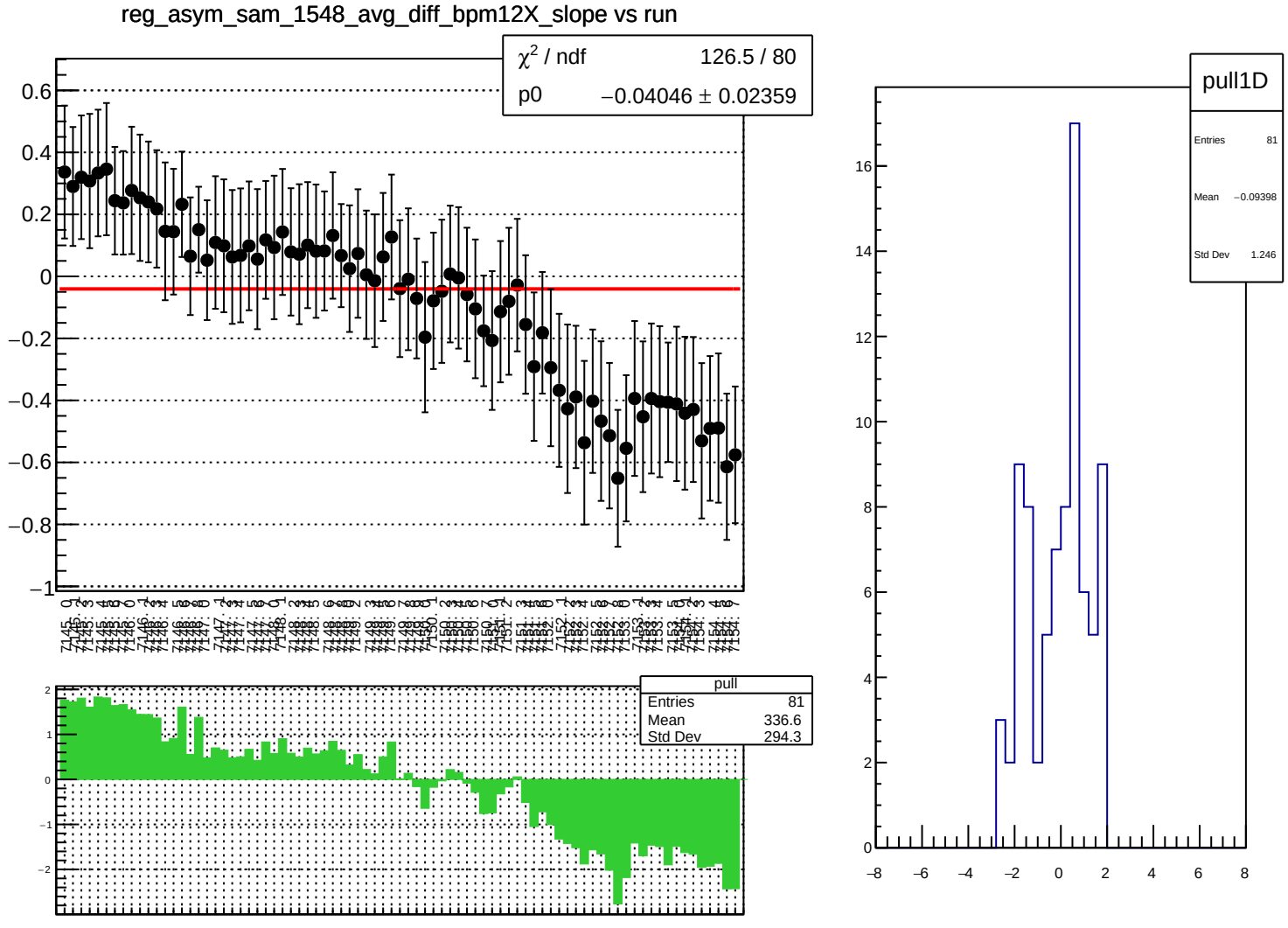

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 130.7 / 80
p0 1.148 ± 0.4916
pull
Entries 81
Mean 39.6
Std Dev 70.09
pull1D
Entries 81
Mean 0.02747
Std Dev 1.27

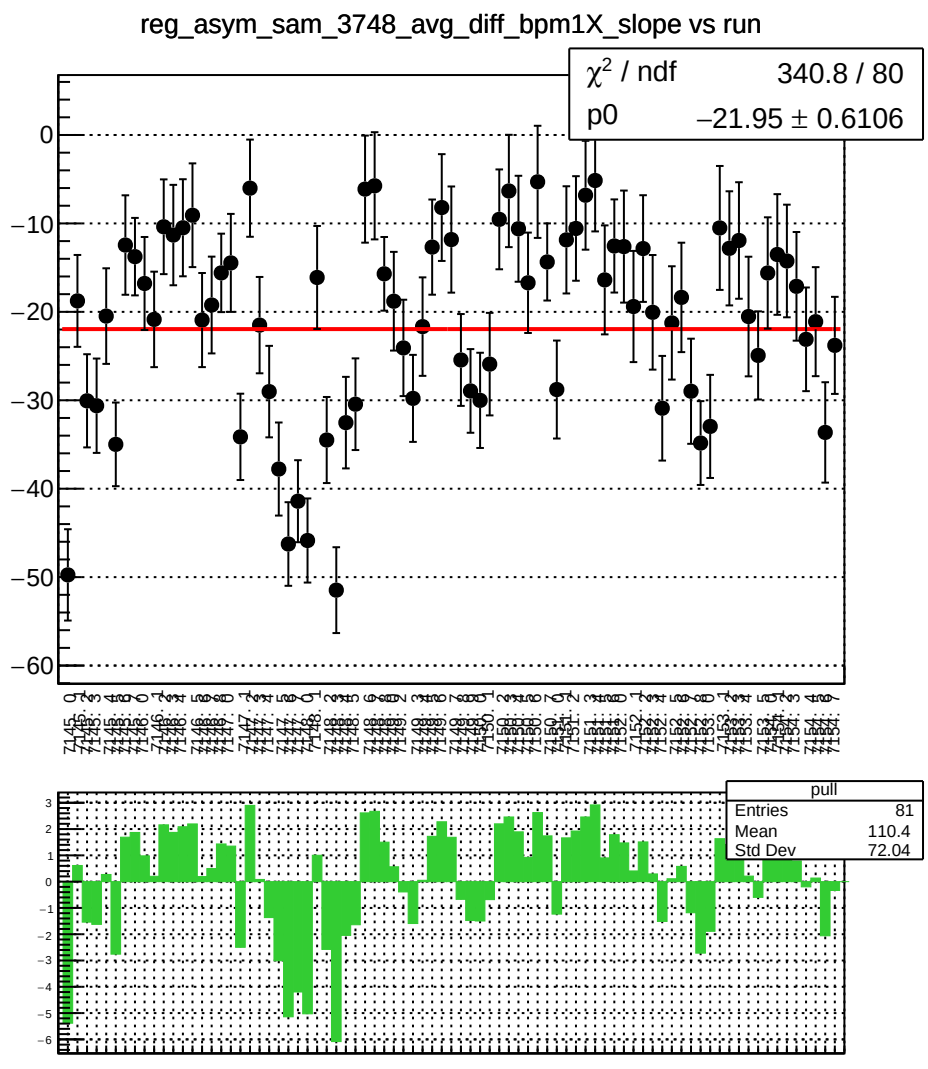

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 307.2 / 80
p0 −27.6 ± 0.584
pull
Entries 81
Mean 99.29
Std Dev 61.49

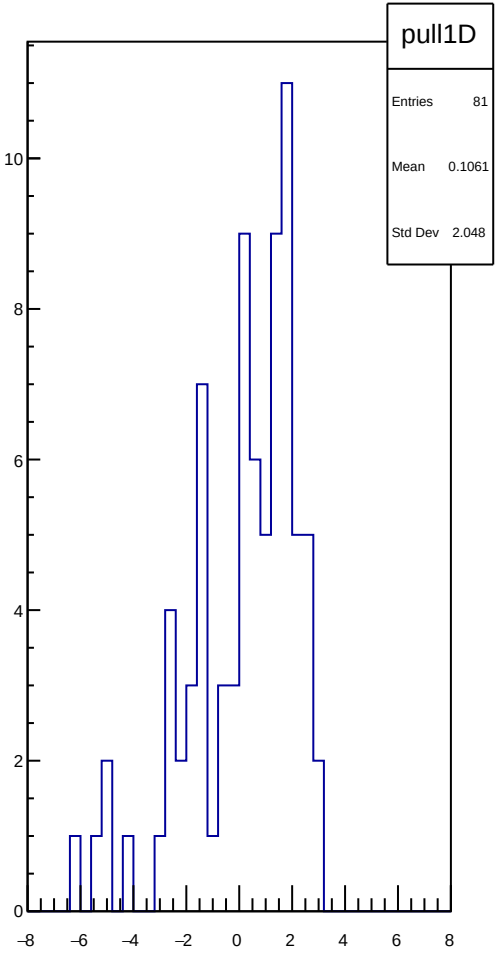

pull1D
Entries 81
Mean −0.09461
Std Dev 1.945

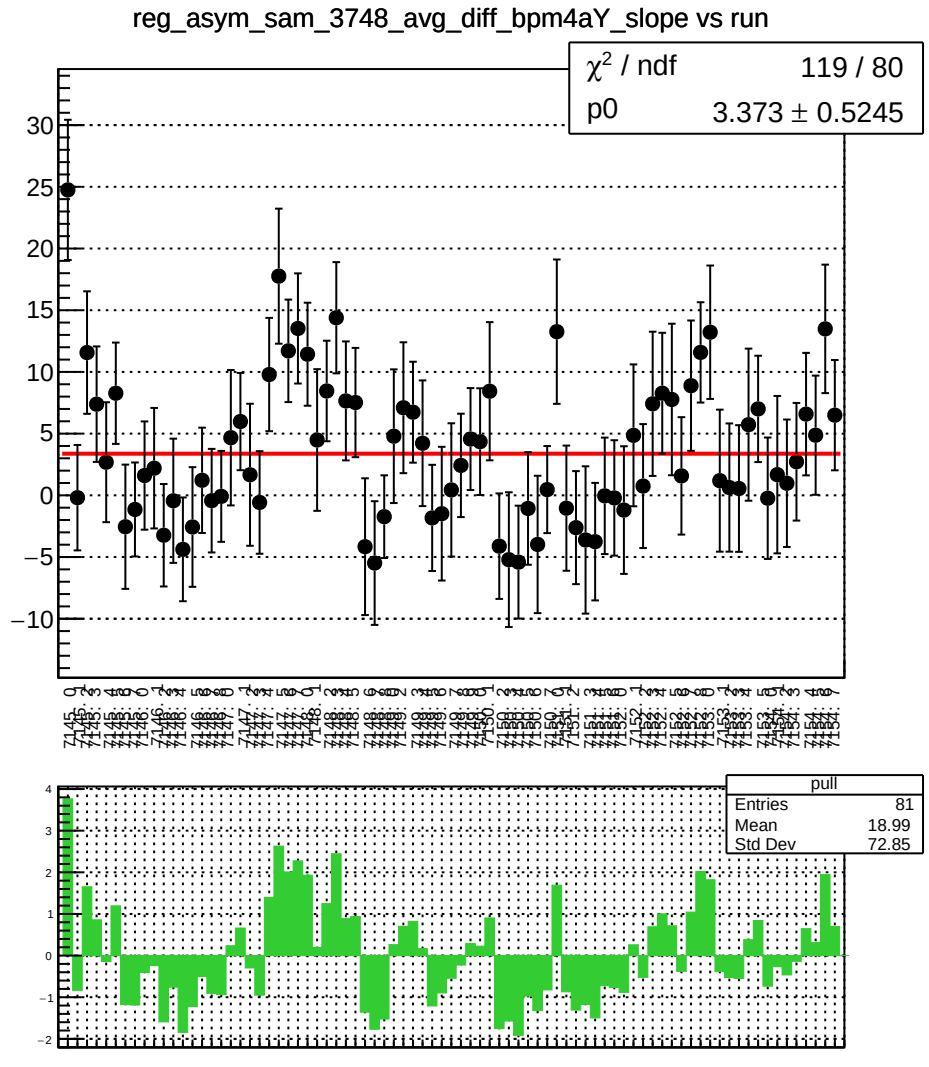

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 116.5 / 80
p0 74.17 ± 0.5361
pull
Entries 81
Mean 202.4
Std Dev 147.9

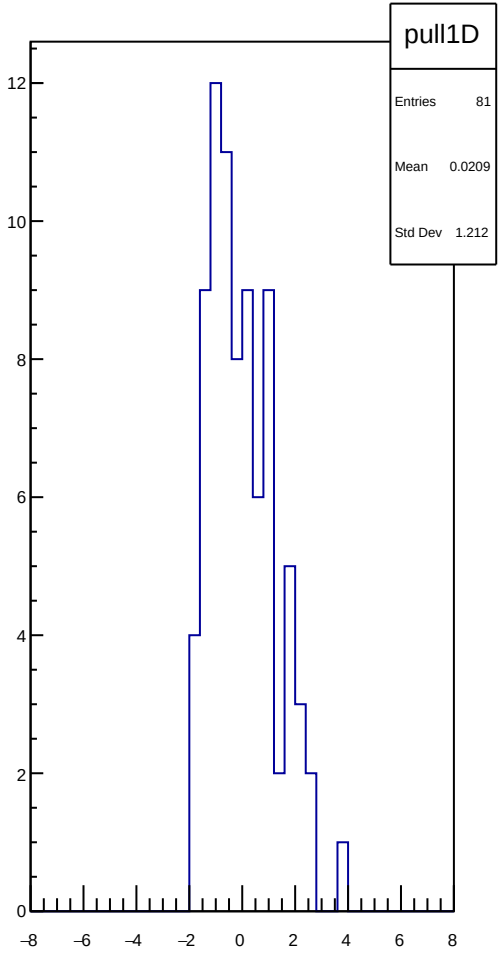

pull1D
Entries 81
Mean −0.04313
Std Dev 1.198

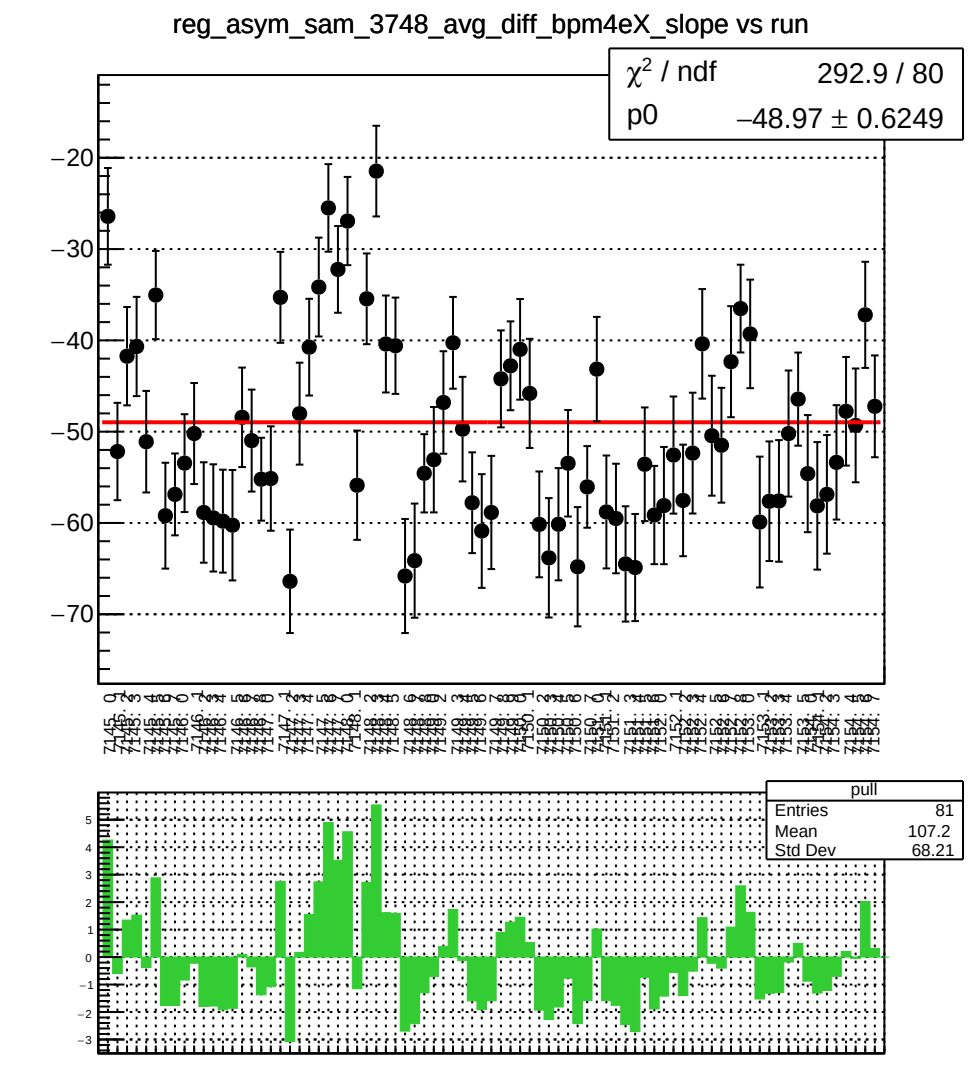

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 126.5 / 80
p0 −0.04046 ± 0.02359
pull
Entries 81
Mean 336.6
Std Dev 294.3
pull1D
Entries 81
Mean −0.09398
Std Dev 1.246

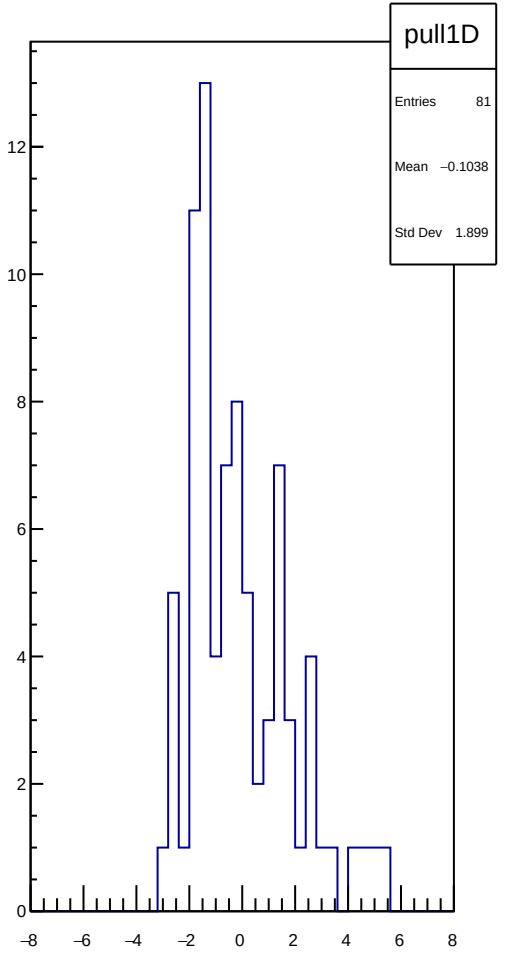

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 340.8 / 80
p0 −21.95 ± 0.6106
pull
Entries 81
Mean 110.4
Std Dev 72.04

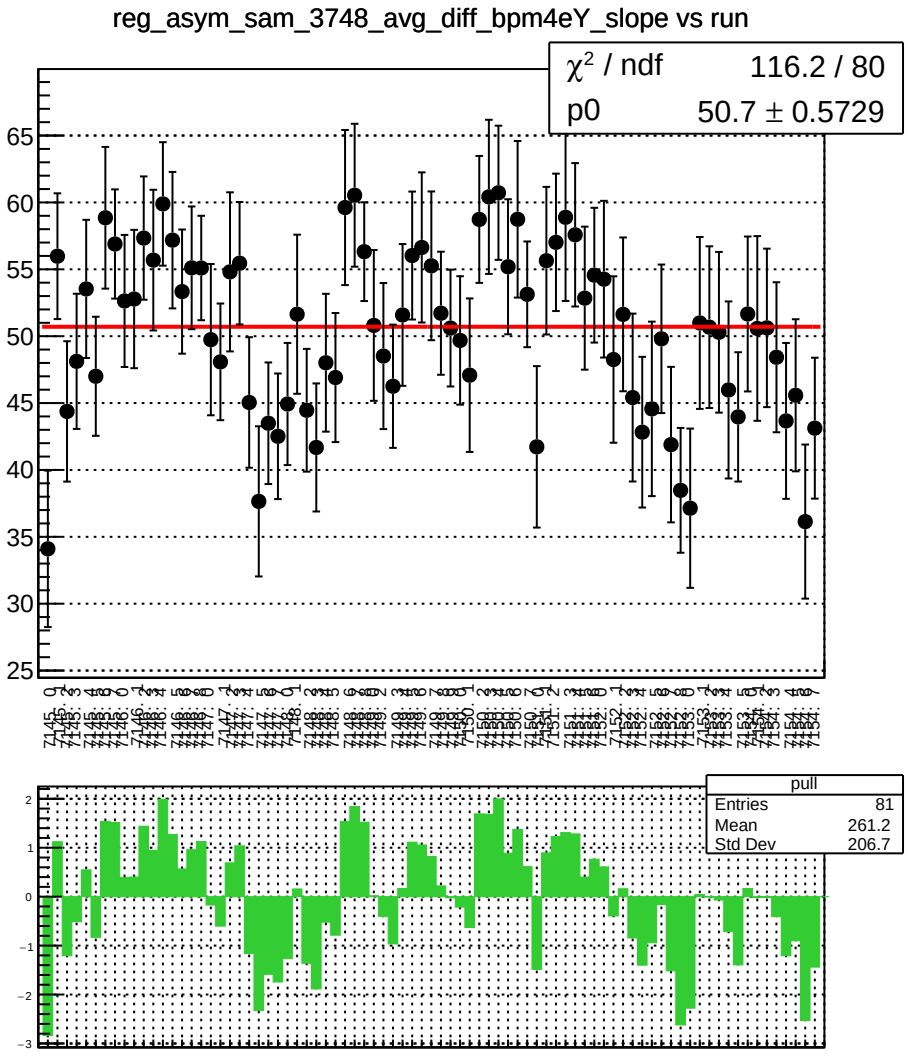

pull1D
Entries 81
Mean 0.1061
Std Dev 2.048

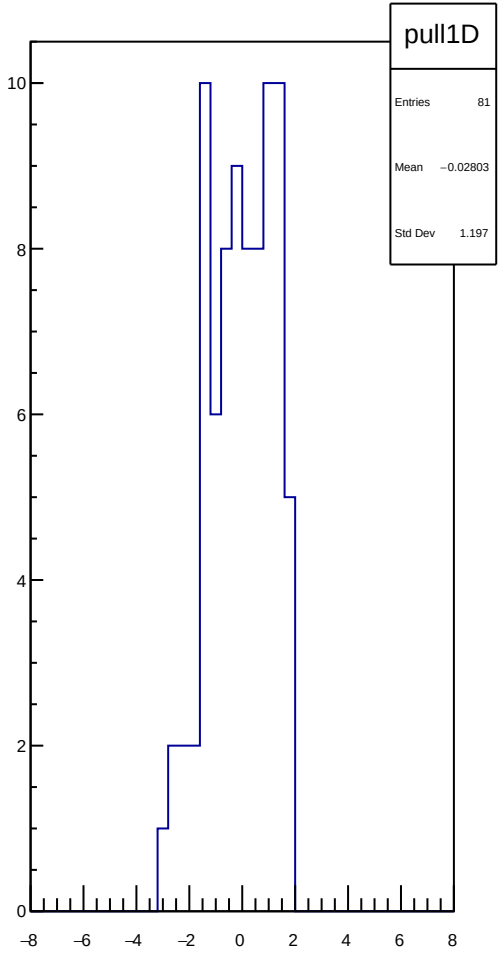

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 119 / 80
p0 3.373 ± 0.5245
pull
Entries 81
Mean 18.99
Std Dev 72.85

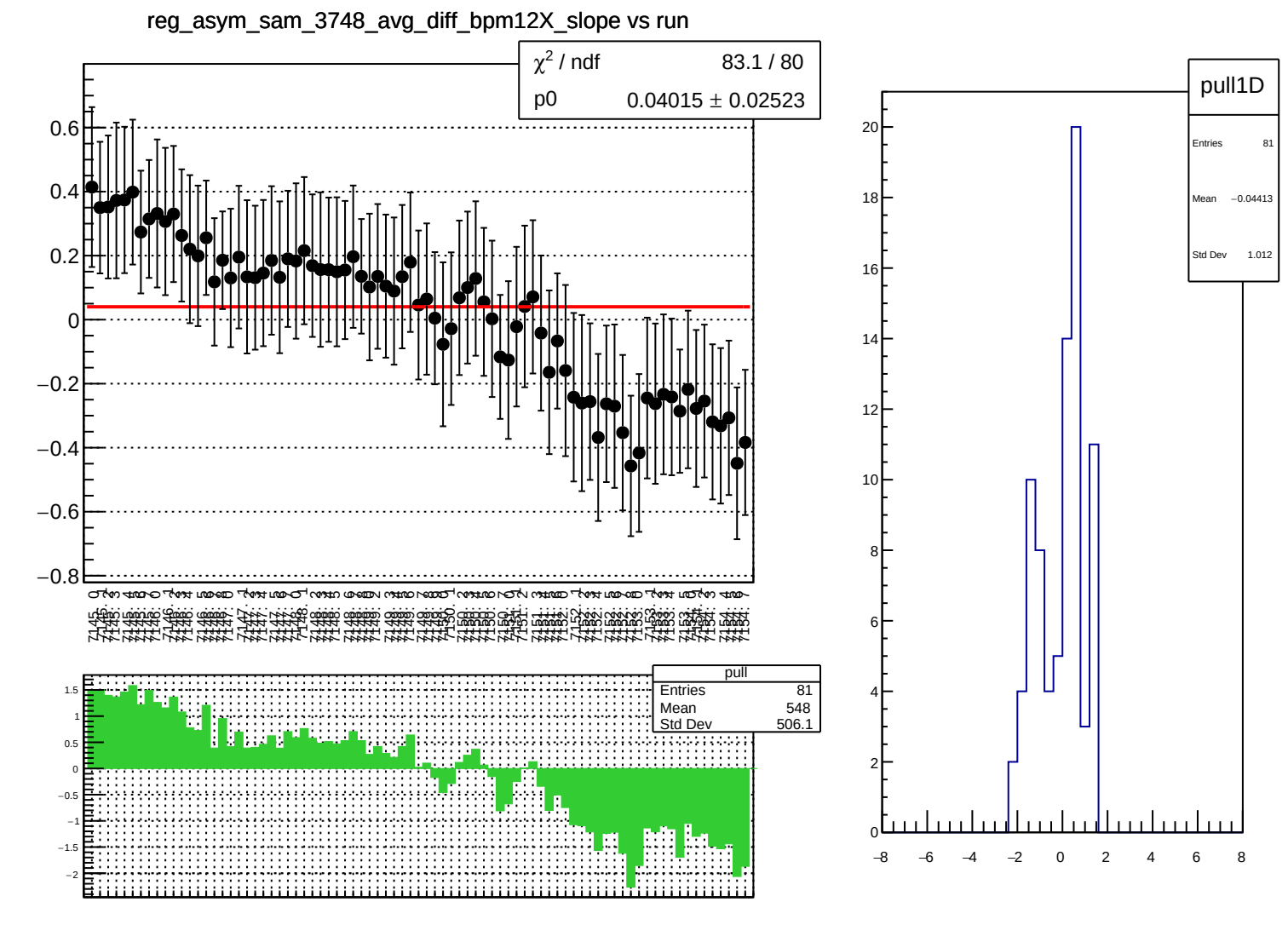

pull1D
Entries 81
Mean 0.0209
Std Dev 1.212

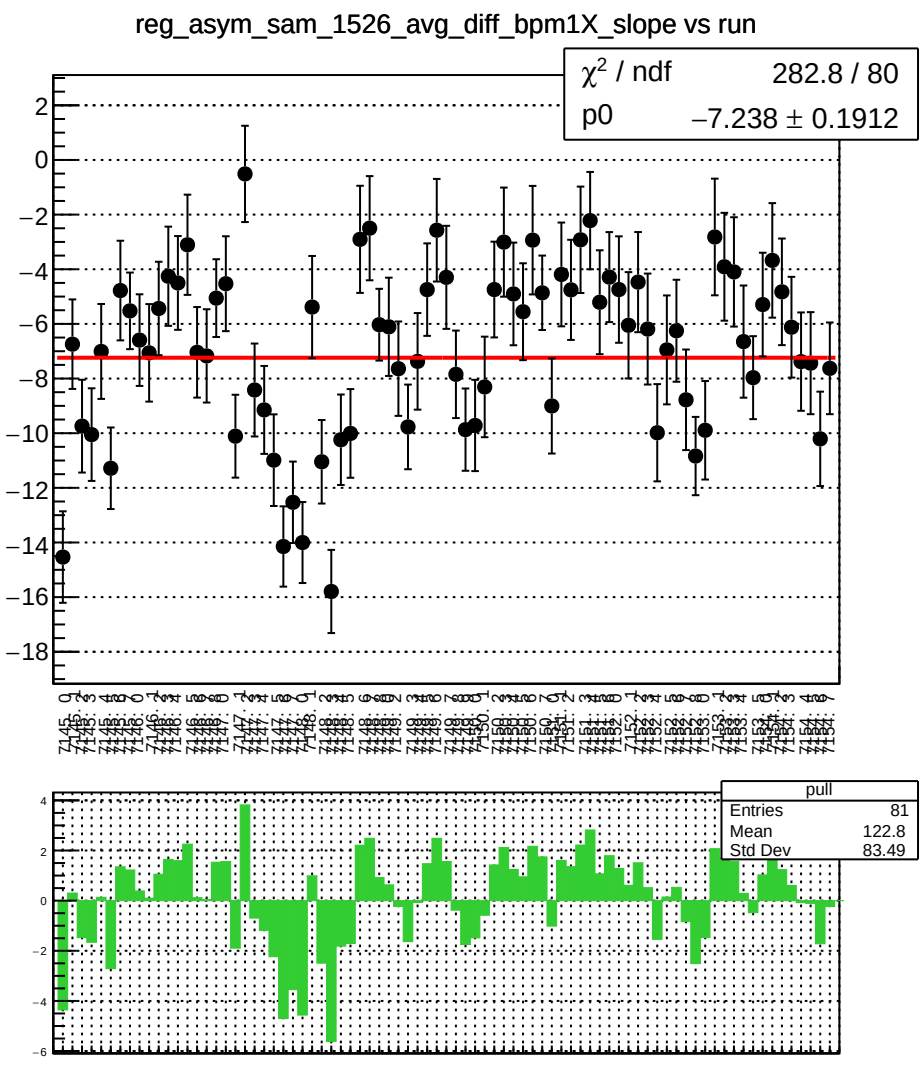

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 292.9 / 80
p0 −48.97 ± 0.6249
pull
Entries 81
Mean 107.2
Std Dev 68.21

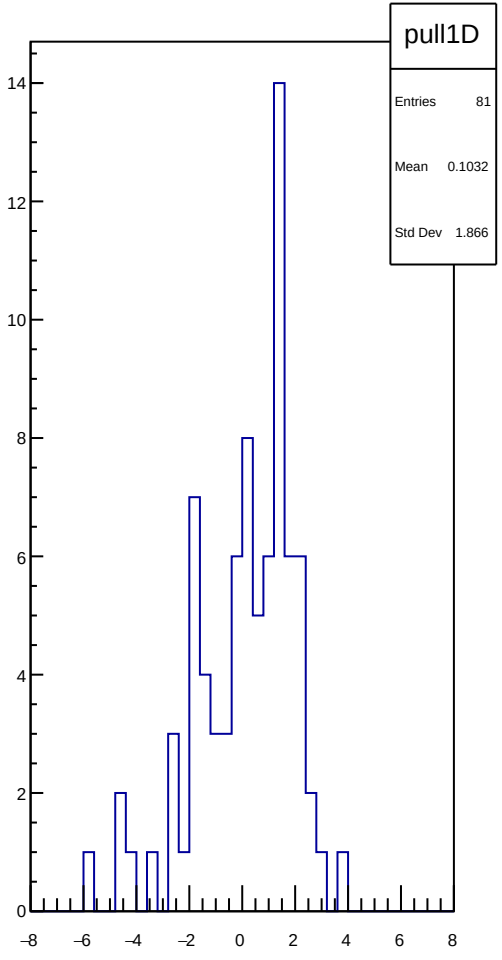

pull1D
Entries 81
Mean −0.1038
Std Dev 1.899

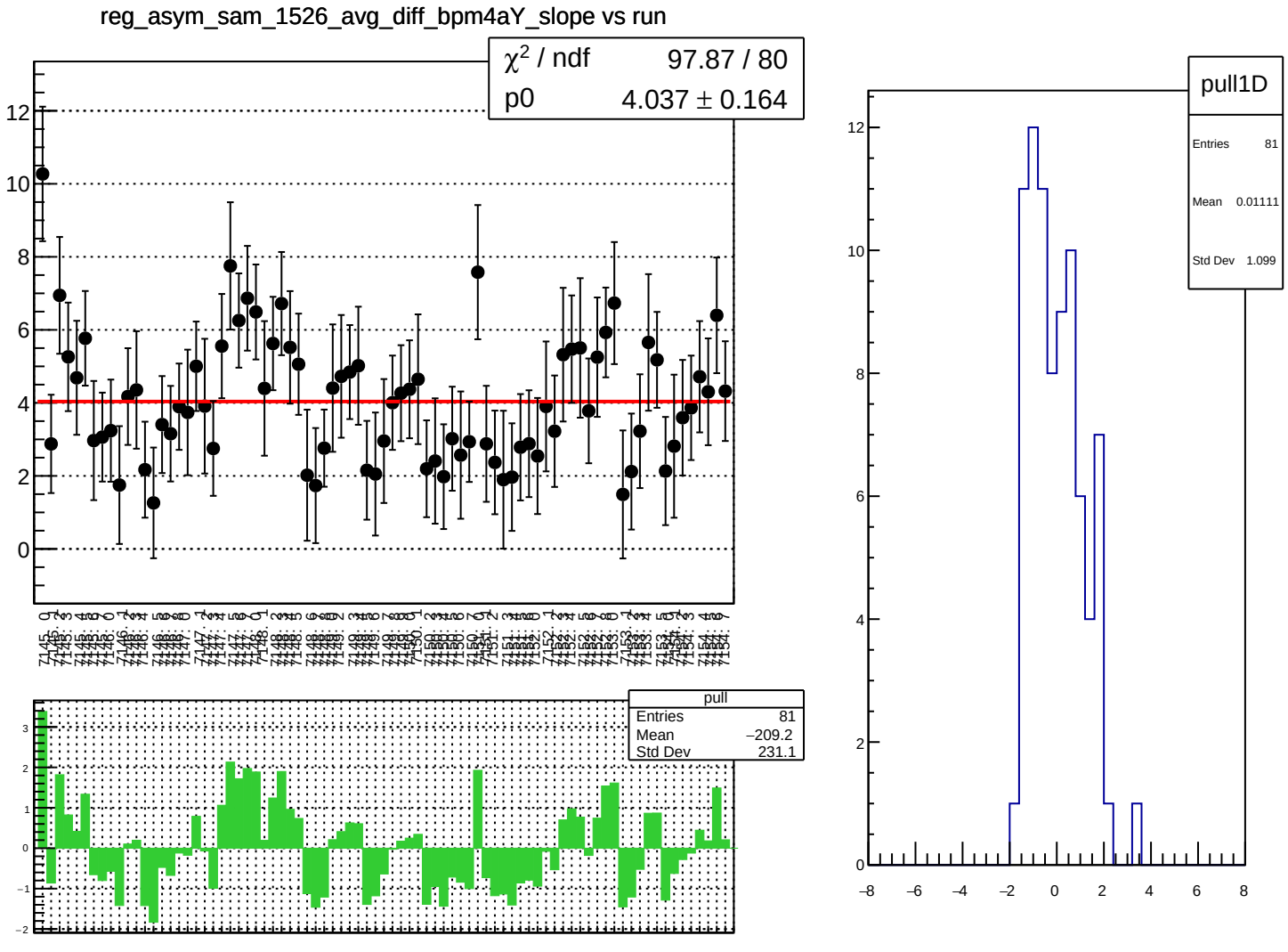

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 116.2 / 80
p0 50.7 ± 0.5729
pull
Entries 81
Mean 261.2
Std Dev 206.7

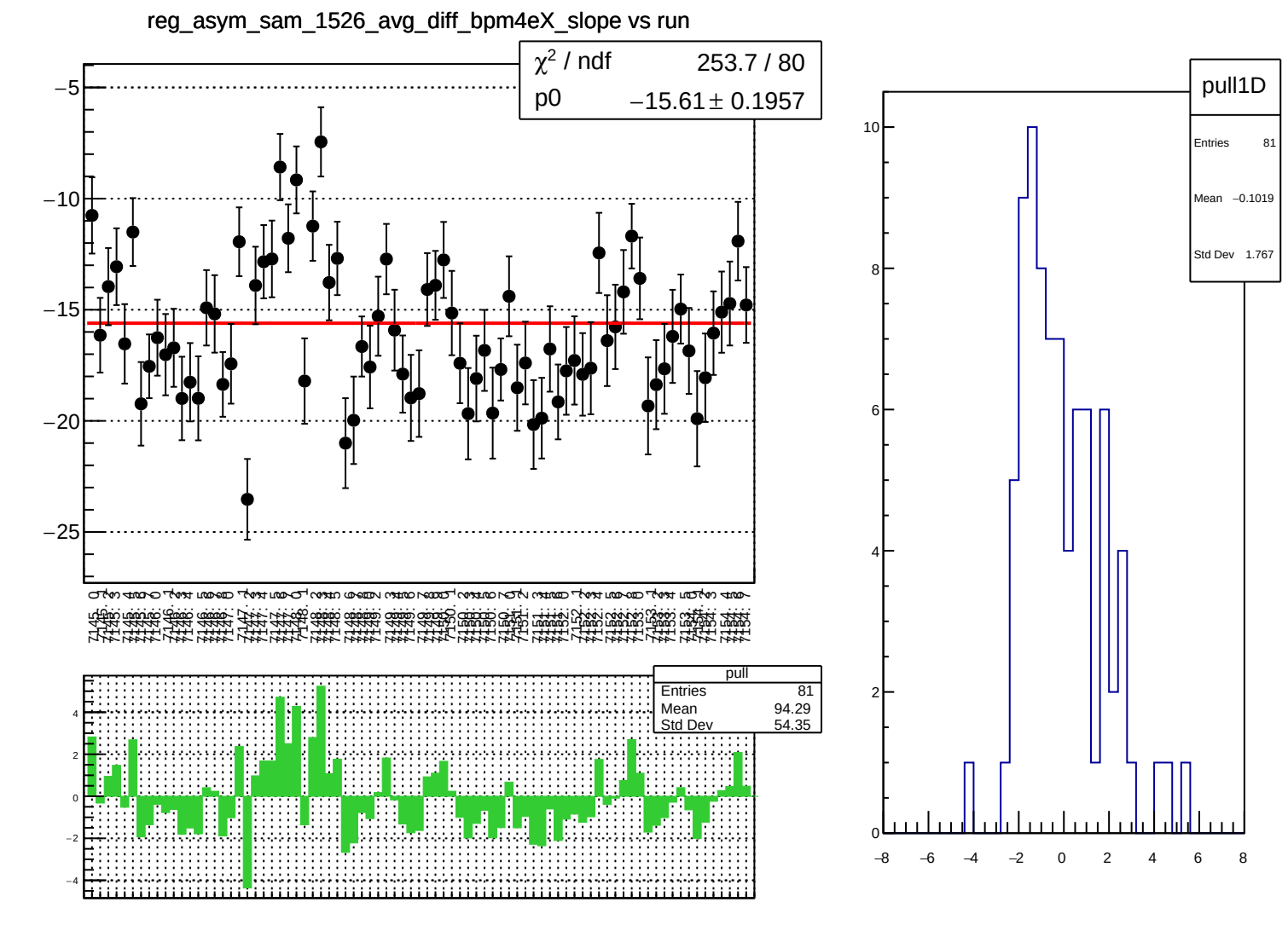

pull1D
Entries 81
Mean −0.02803
Std Dev 1.197

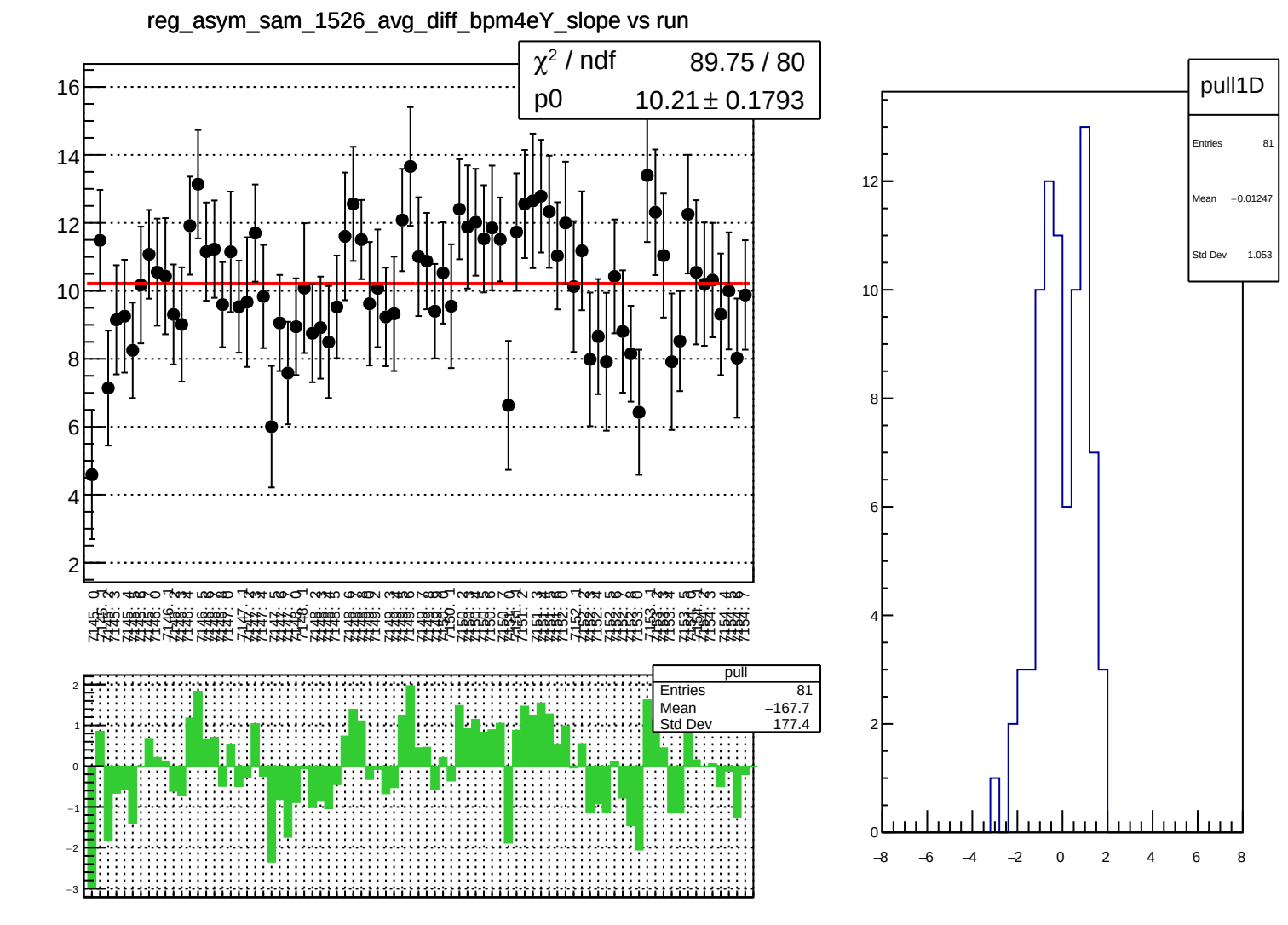

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 83.1 / 80
p0 0.04015 ± 0.02523
pull
Entries 81
Mean 548
Std Dev 506.1
pull1D
Entries 81
Mean −0.04413
Std Dev 1.012

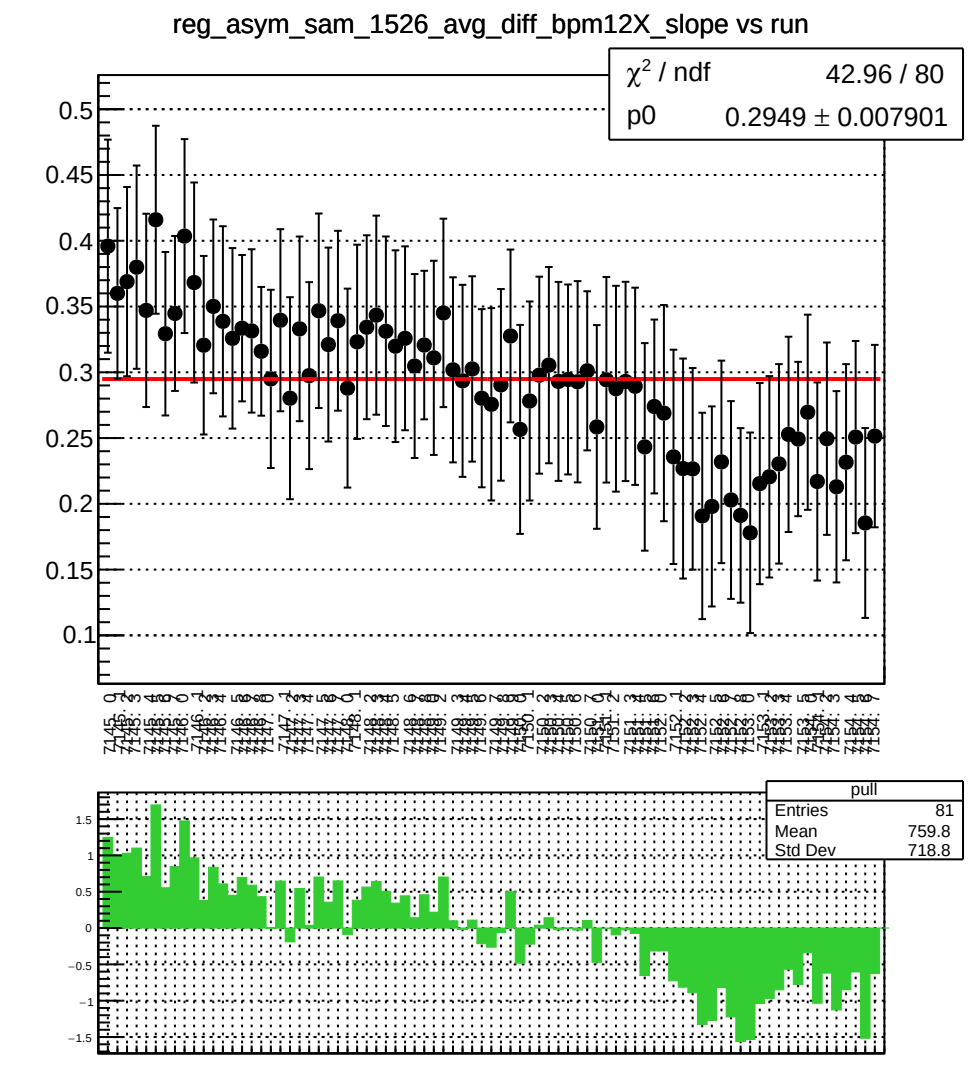

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 282.8 / 80
p0 −7.238 ± 0.1912
pull
Entries 81
Mean 122.8
Std Dev 83.49

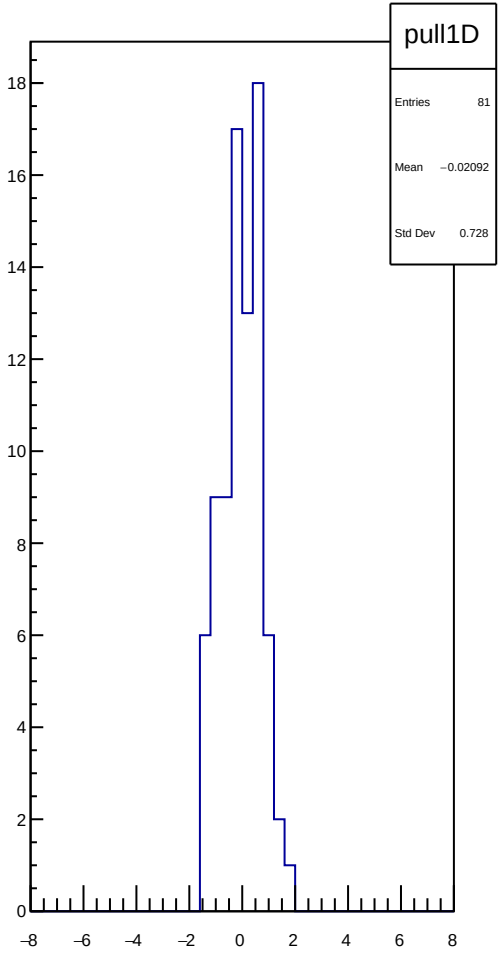

pull1D
Entries 81
Mean 0.1032
Std Dev 1.866

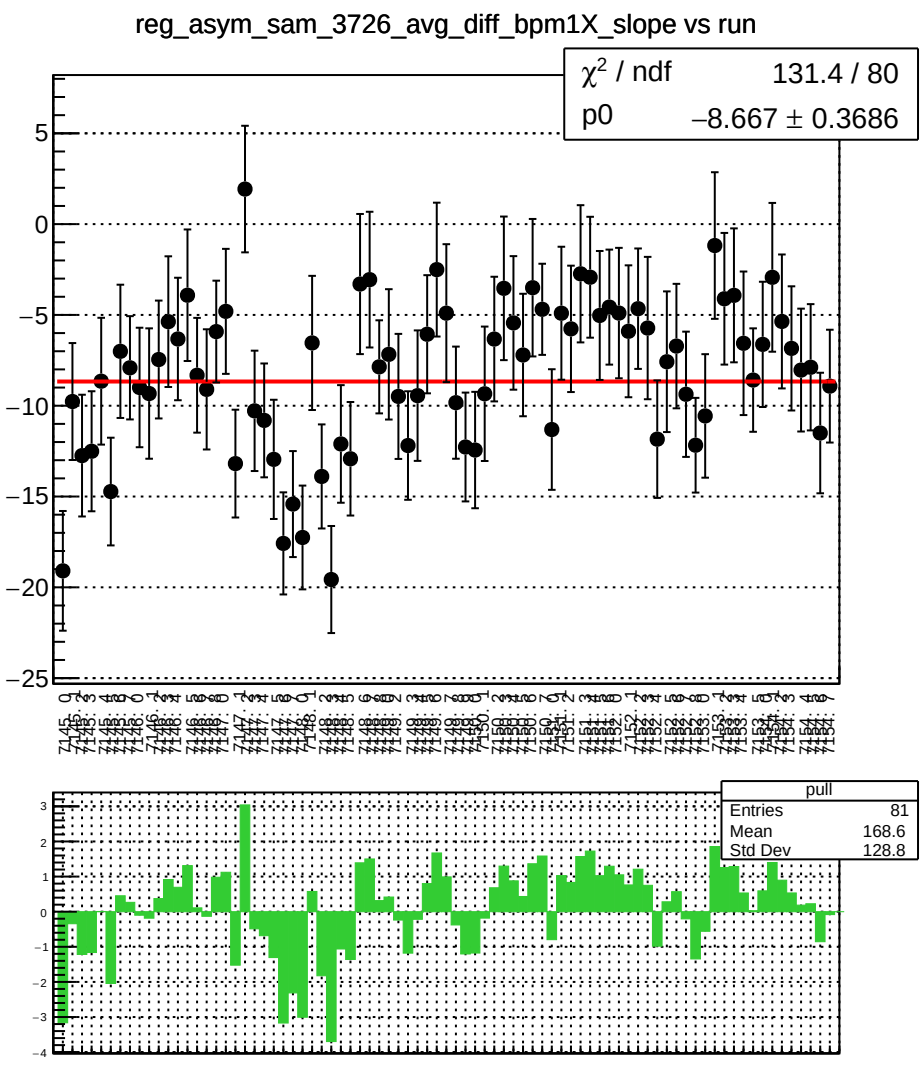

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 97.87 / 80
p0 4.037 ± 0.164
pull
Entries 81
Mean −209.2
Std Dev 231.1
pull1D
Entries 81
Mean 0.01111
Std Dev 1.099

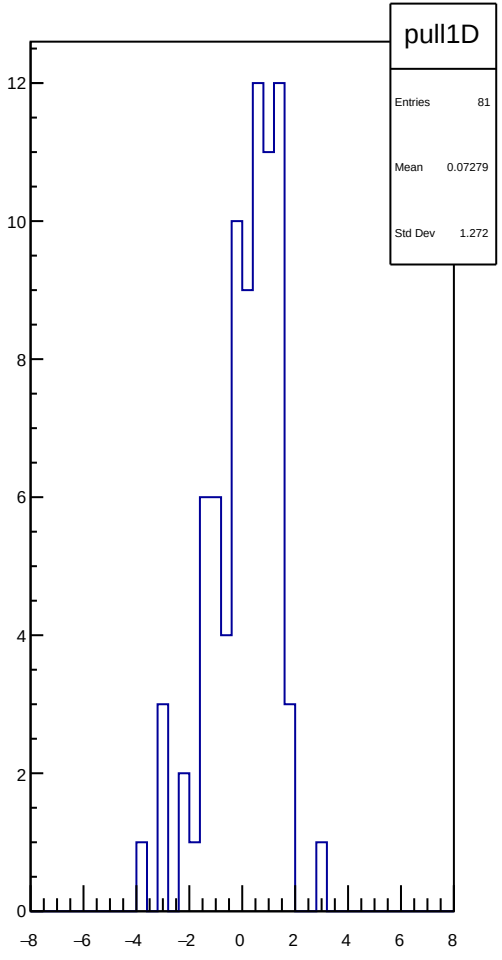

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 253.7 / 80
p0 −15.61 ± 0.1957
pull
Entries 81
Mean 94.29
Std Dev 54.35
pull1D
Entries 81
Mean −0.1019
Std Dev 1.767

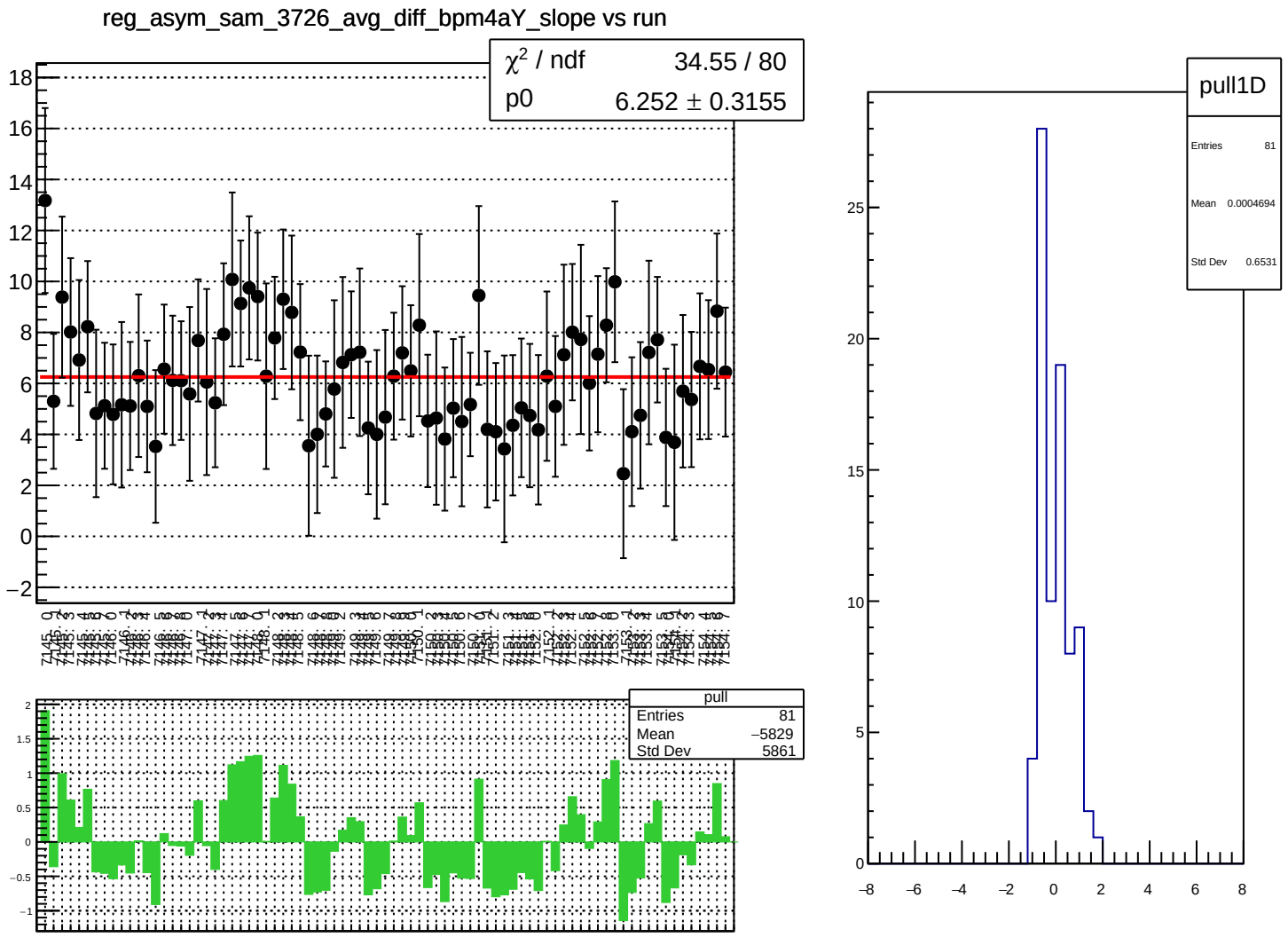

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 89.75 / 80
p0 10.21 ± 0.1793
pull
Entries 81
Mean −167.7
Std Dev 177.4
pull1D
Entries 81
Mean −0.01247
Std Dev 1.053

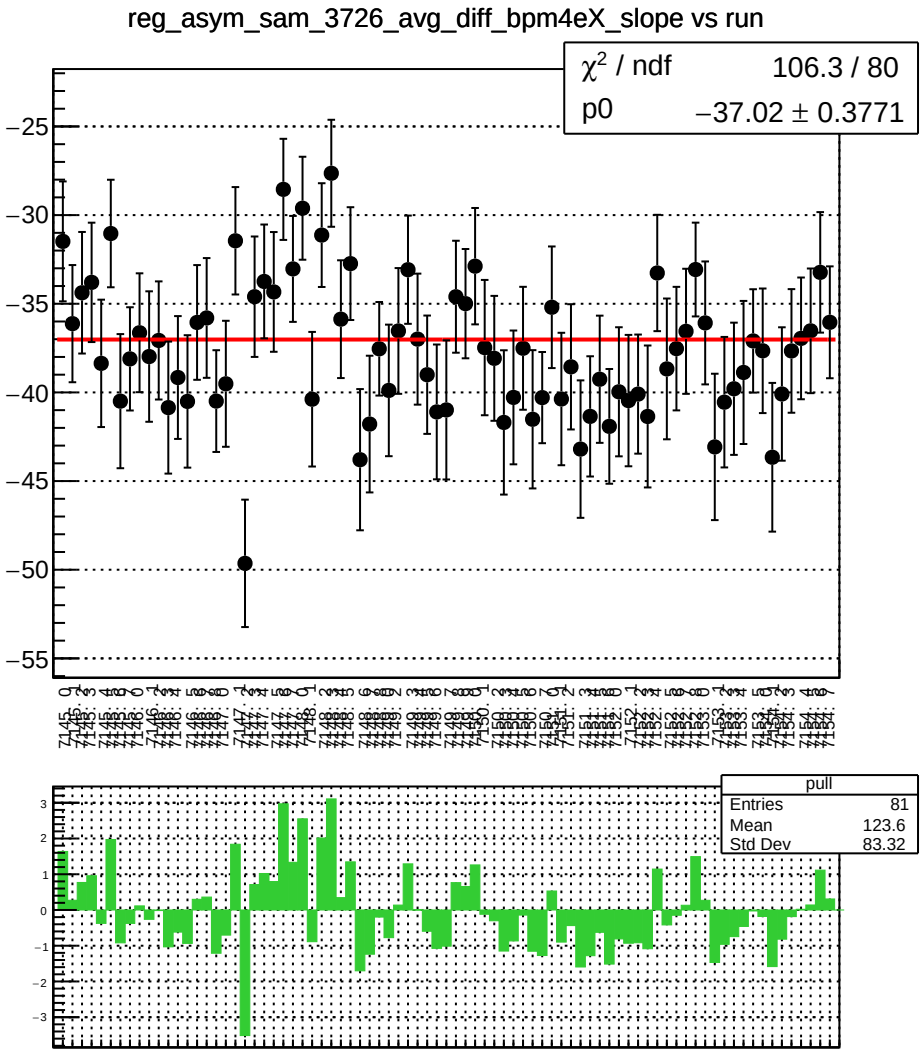

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 42.96 / 80
p0 0.2949 ± 0.007901
pull
Entries 81
Mean 759.8
Std Dev 718.8

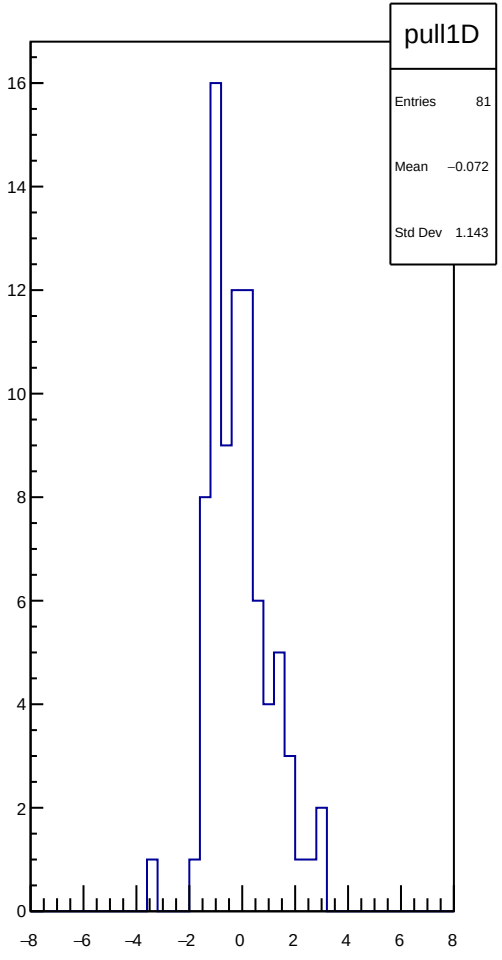

pull1D
Entries 81
Mean −0.02092
Std Dev 0.728

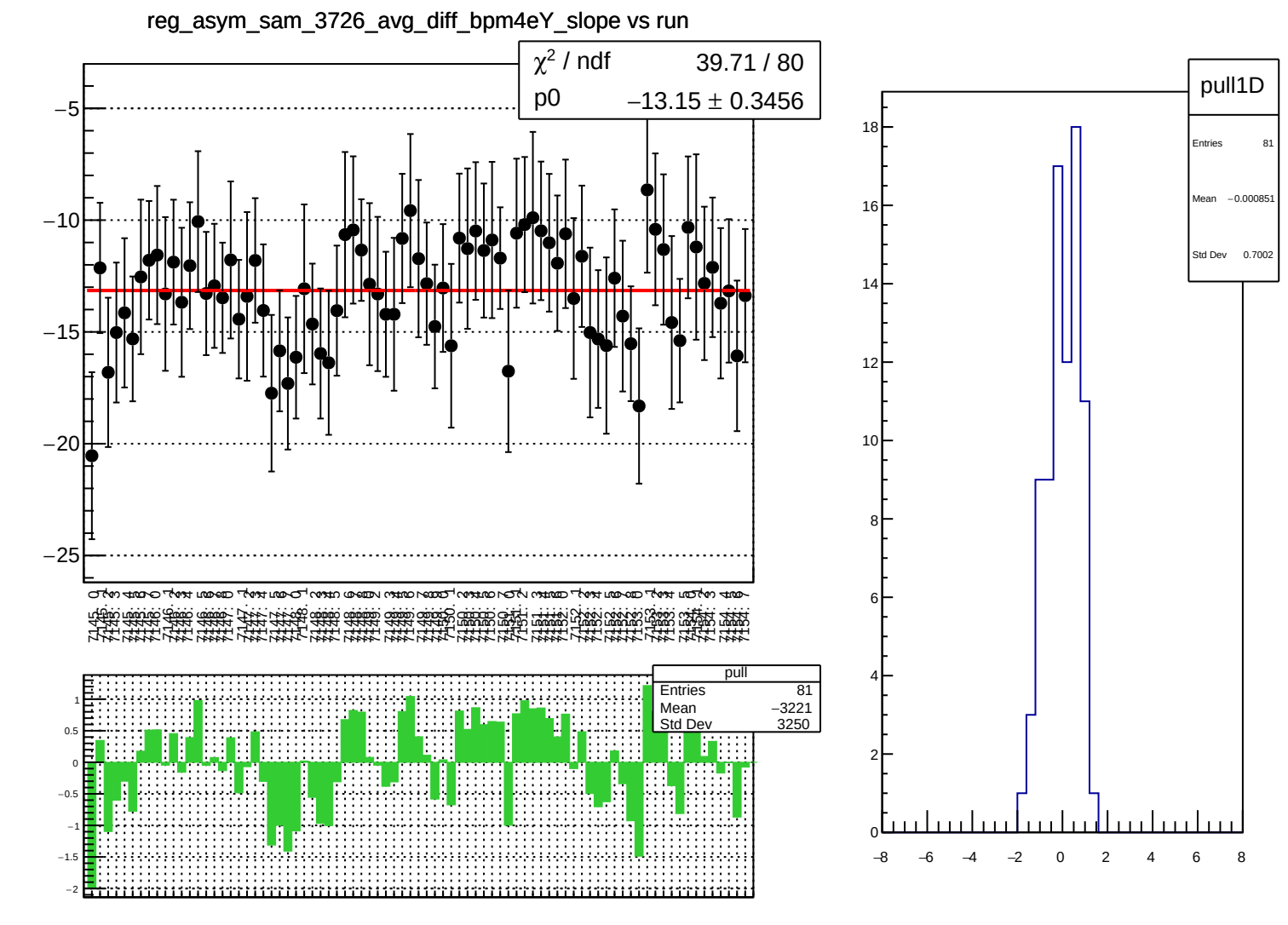

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 131.4 / 80
p0 −8.667 ± 0.3686
pull
Entries 81
Mean 168.6
Std Dev 128.8

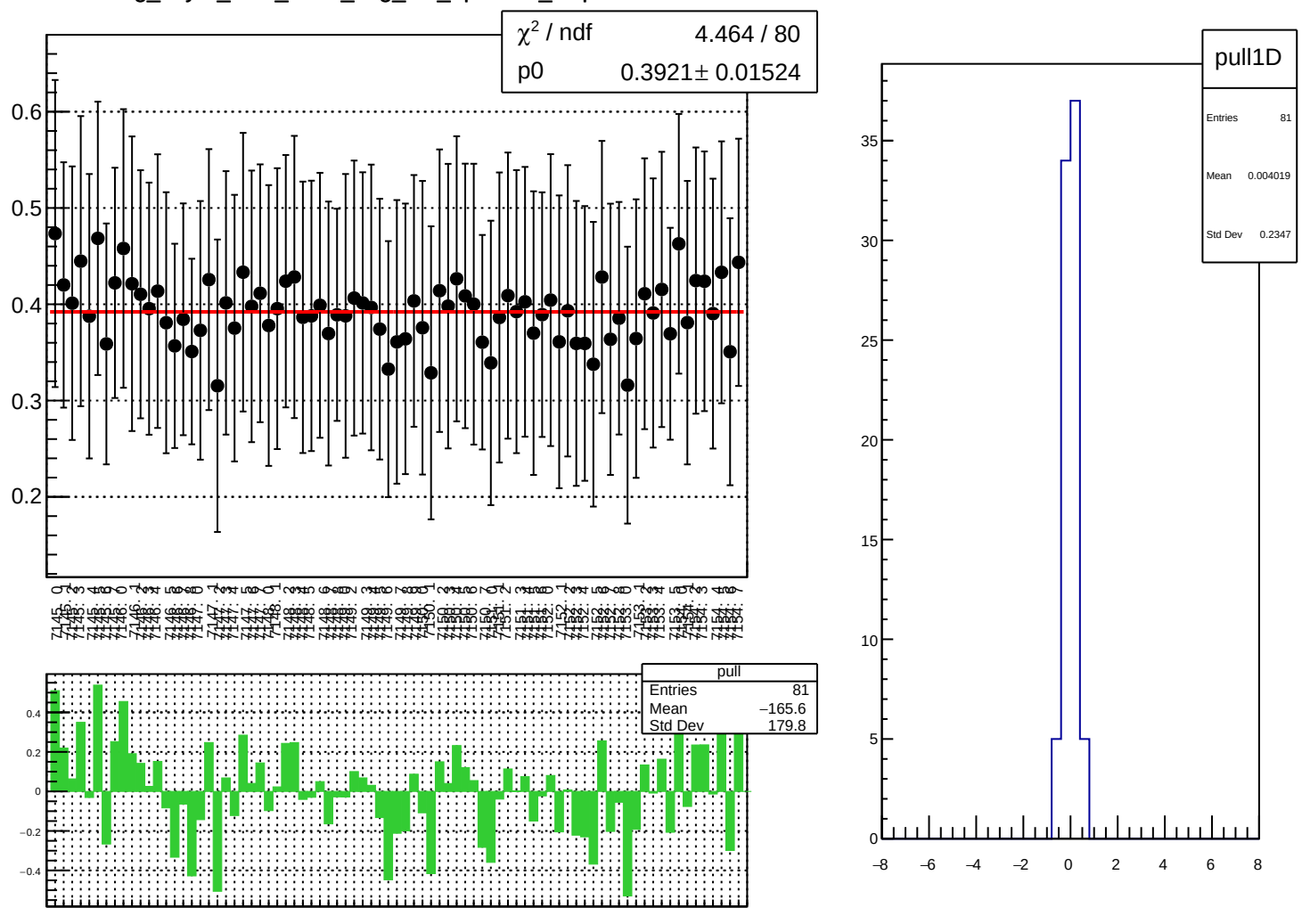

pull1D
Entries 81
Mean 0.07279
Std Dev 1.272

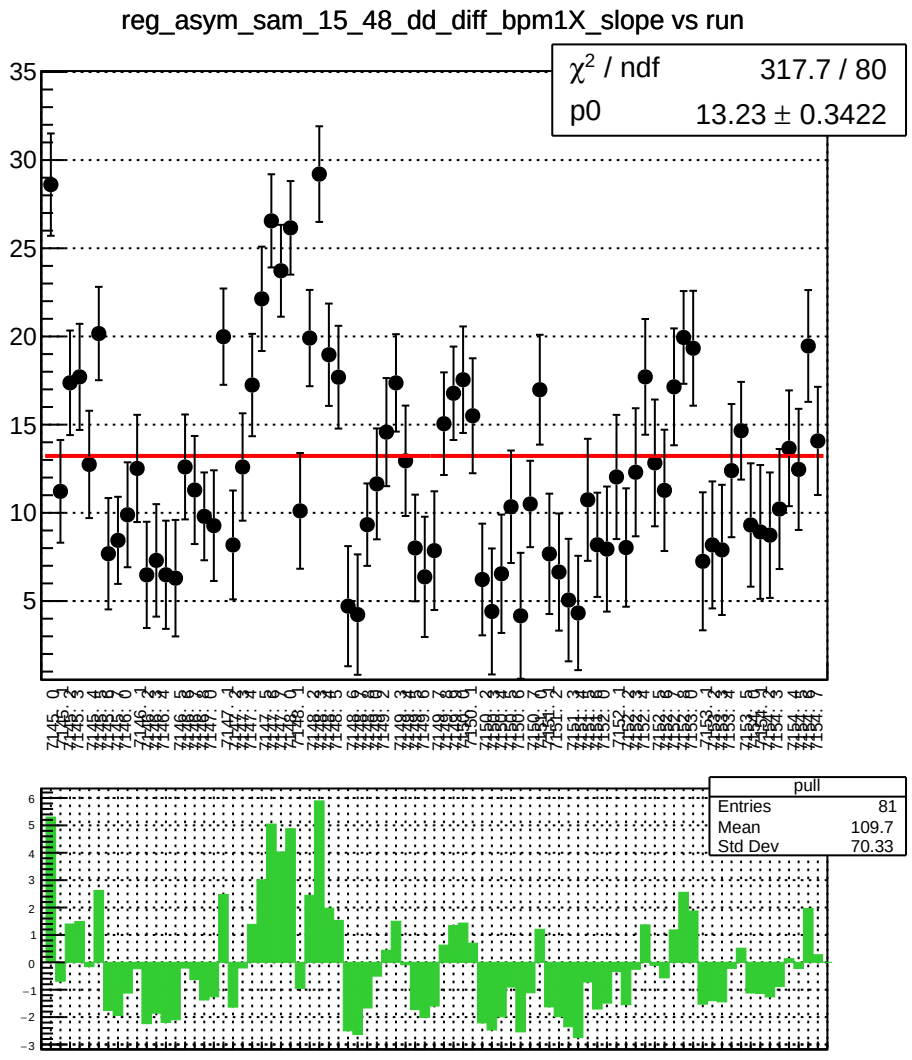

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.55 / 80
p0 6.252 ± 0.3155
pull
Entries 81
Mean −5829
Std Dev 5861
pull1D
Entries 81
Mean 0.0004694
Std Dev 0.6531

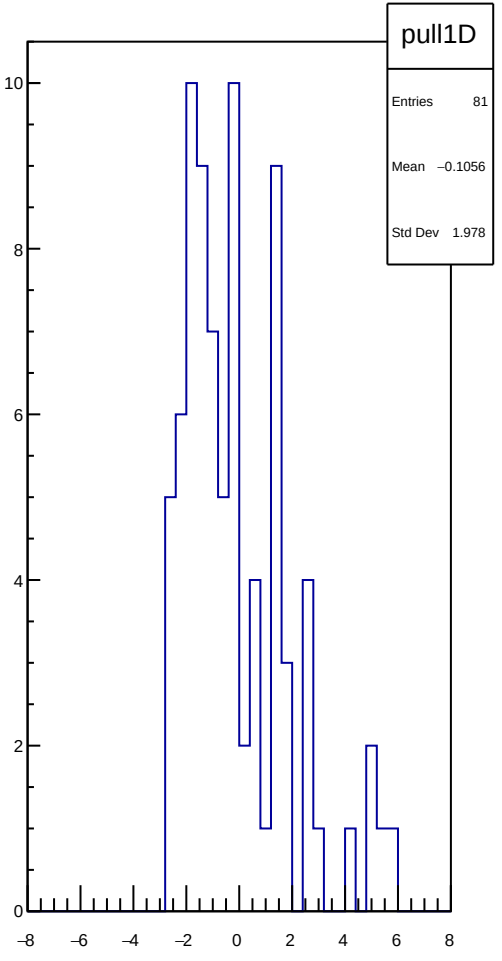

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 106.3 / 80
p0 −37.02 ± 0.3771
pull
Entries 81
Mean 123.6
Std Dev 83.32

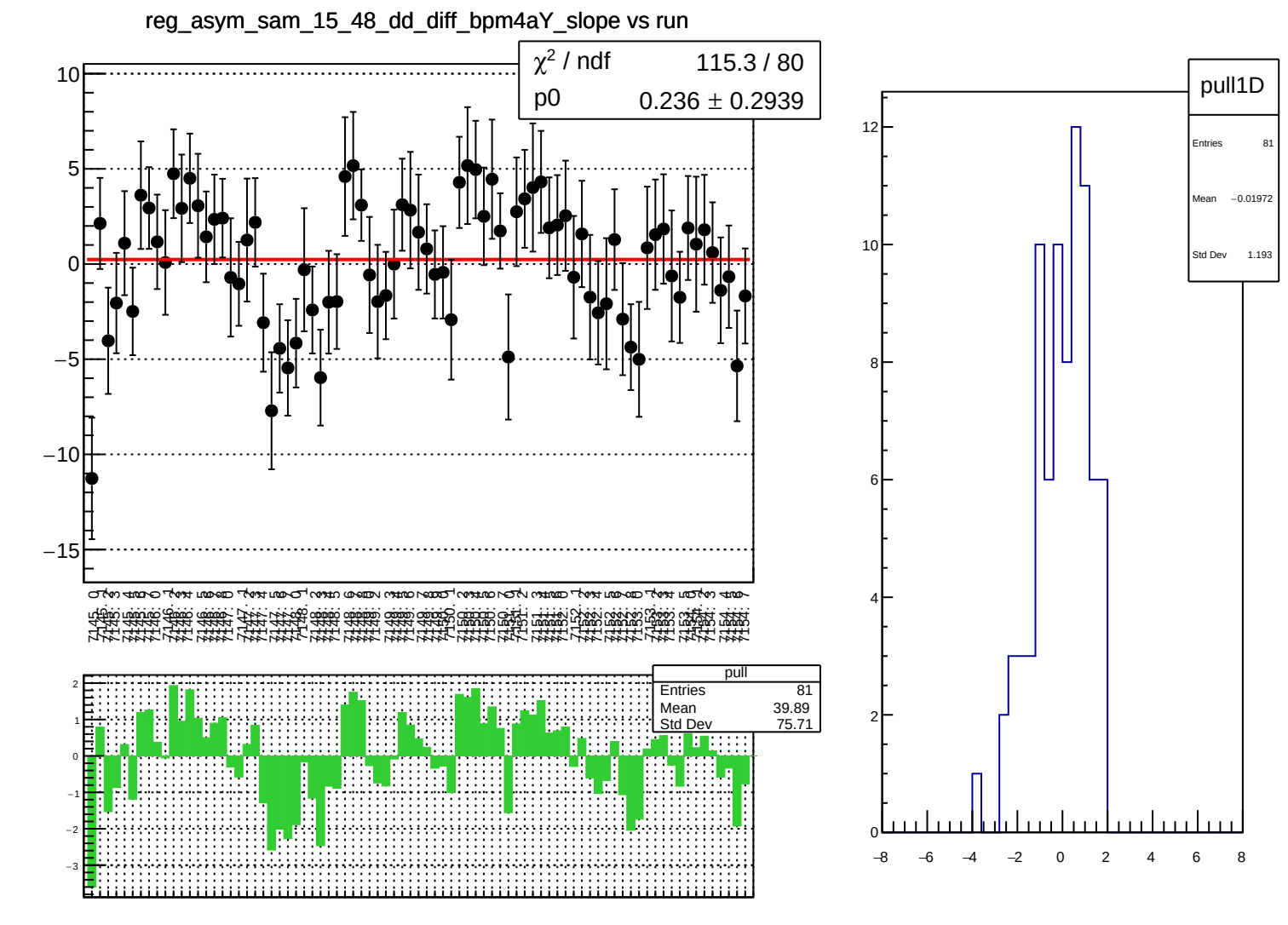

pull1D
Entries 81
Mean −0.072
Std Dev 1.143

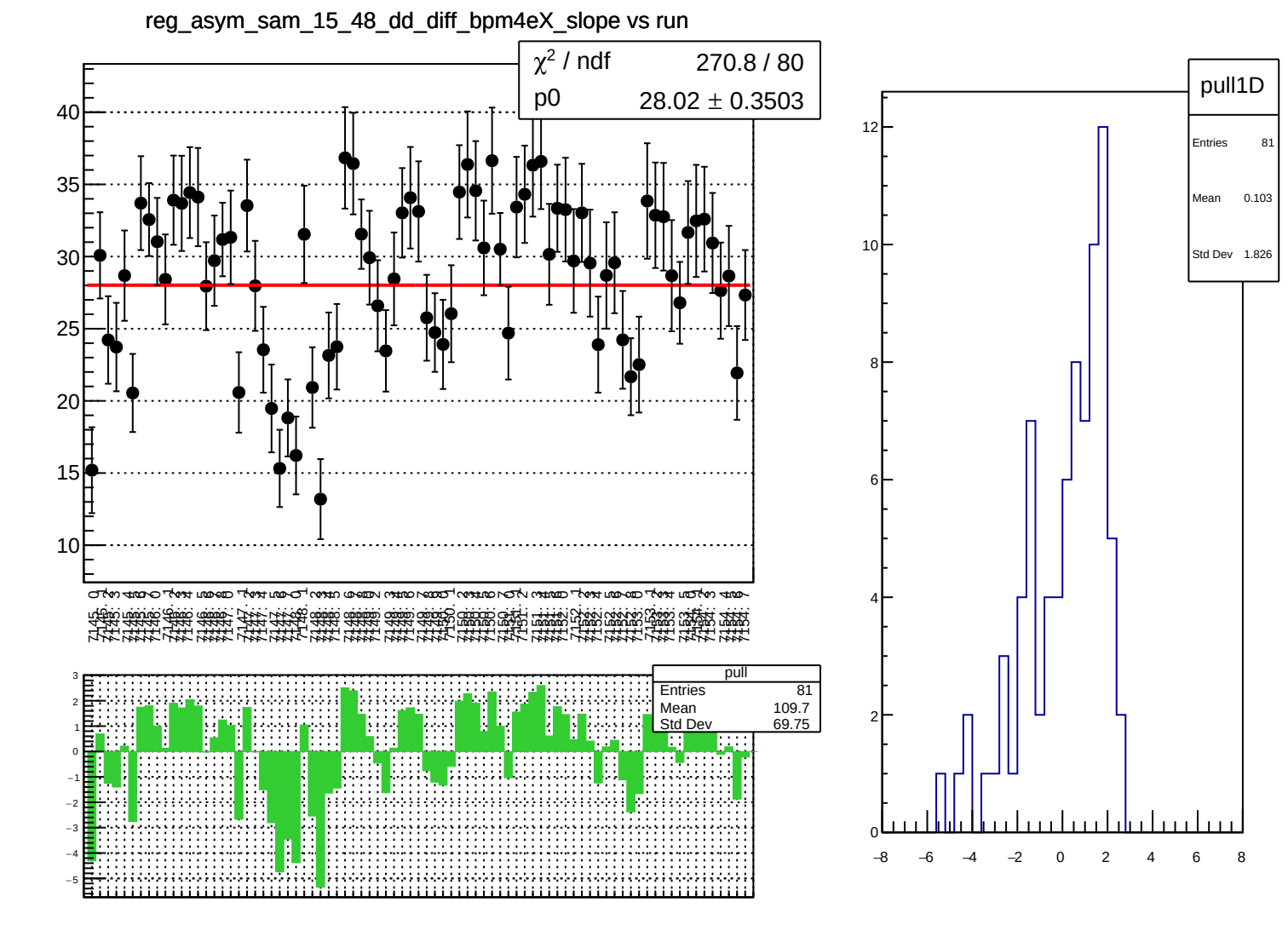

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.71 / 80
p0 −13.15 ± 0.3456
pull
Entries 81
Mean −3221
Std Dev 3250
pull1D
Entries 81
Mean −0.000851
Std Dev 0.7002

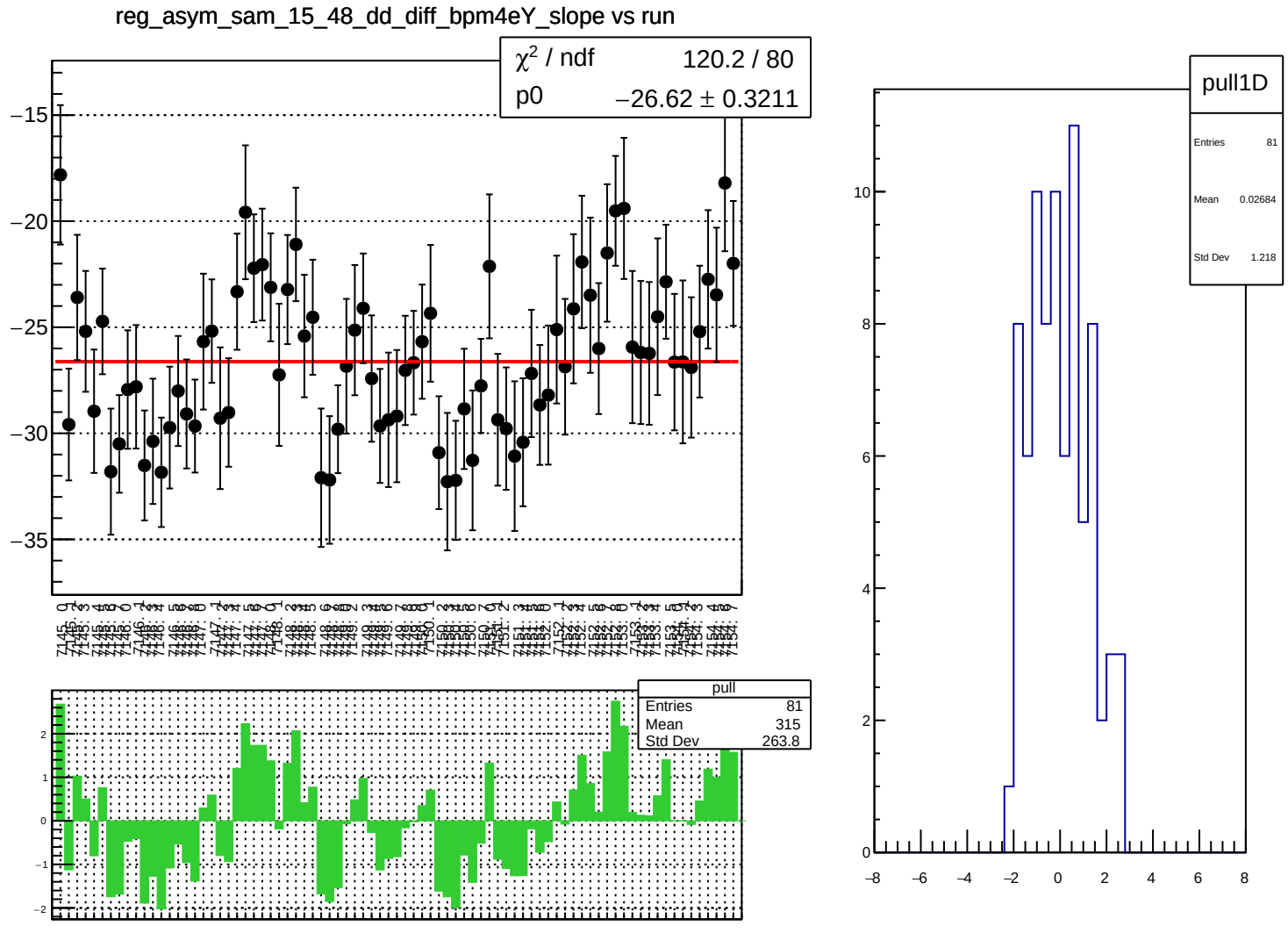

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 4.464 / 80
p0 0.3921± 0.01524
pull
Entries 81
Mean −165.6
Std Dev 179.8
pull1D
Entries 81
Mean 0.004019
Std Dev 0.2347

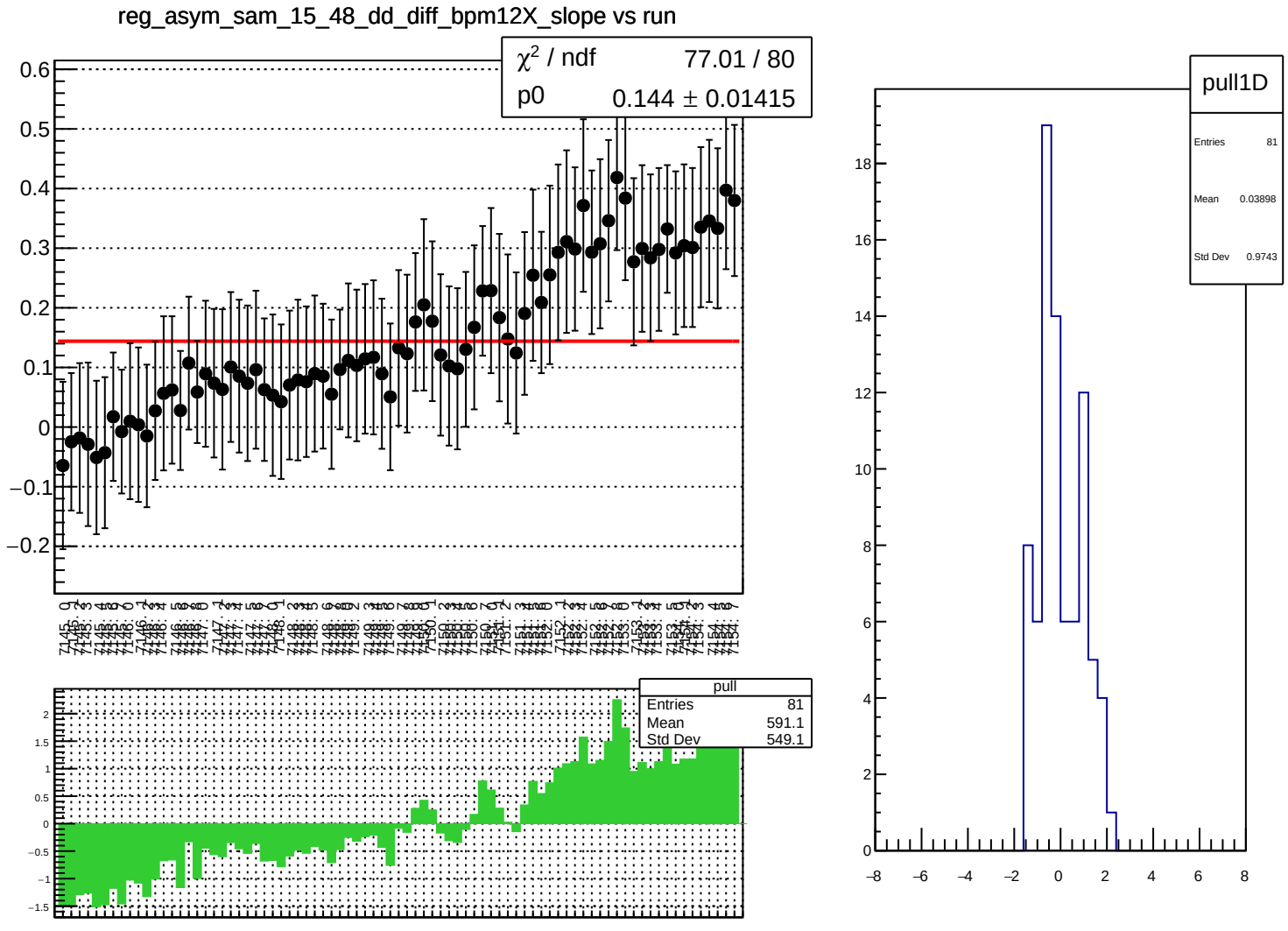

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 317.7 / 80
p0 13.23 ± 0.3422
pull
Entries 81
Mean 109.7
Std Dev 70.33

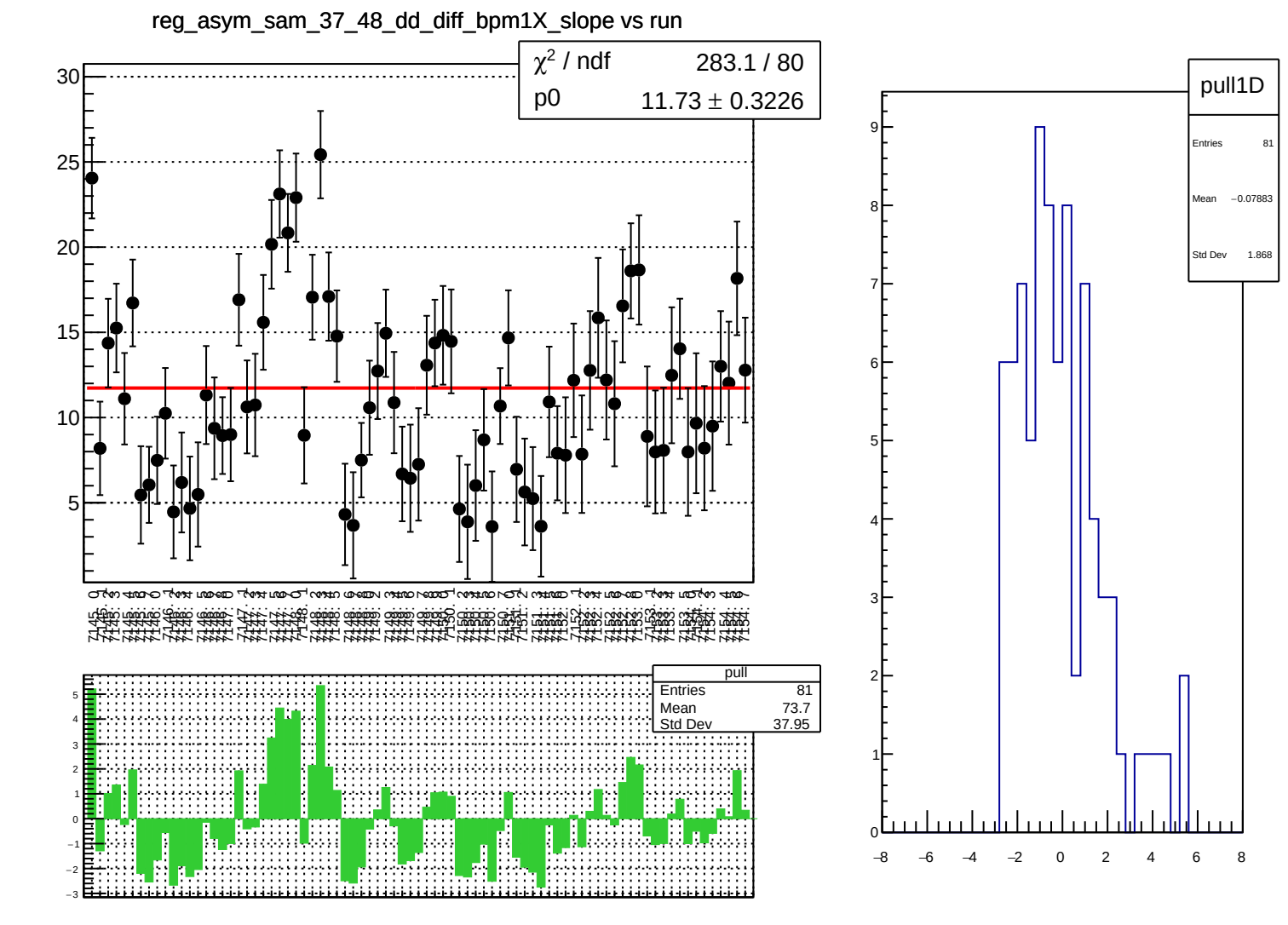

pull1D
Entries 81
Mean −0.1056
Std Dev 1.978

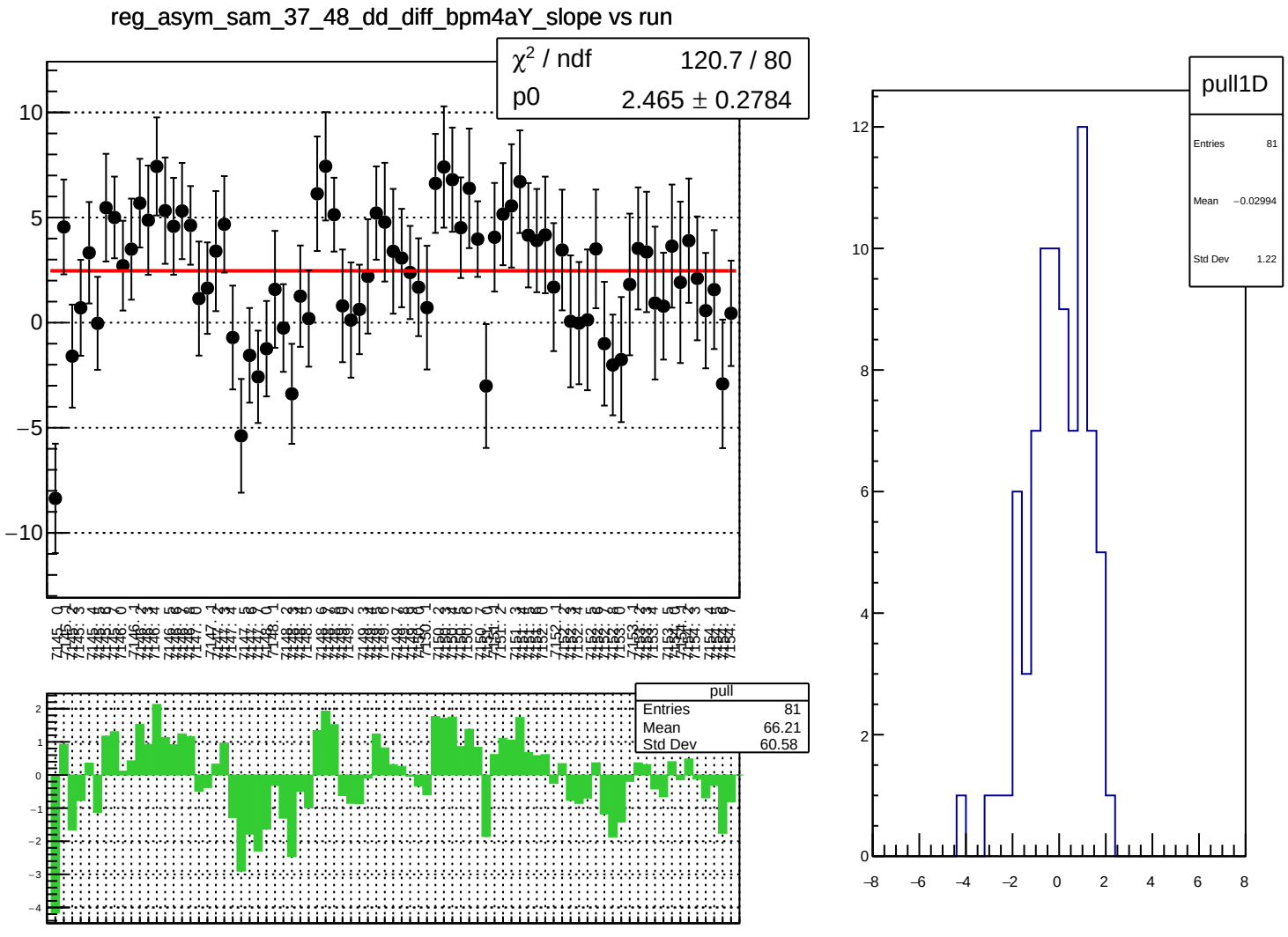

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 115.3 / 80
p0 0.236 ± 0.2939
pull
Entries 81
Mean 39.89
Std Dev 75.71
pull1D
Entries 81
Mean −0.01972
Std Dev 1.193

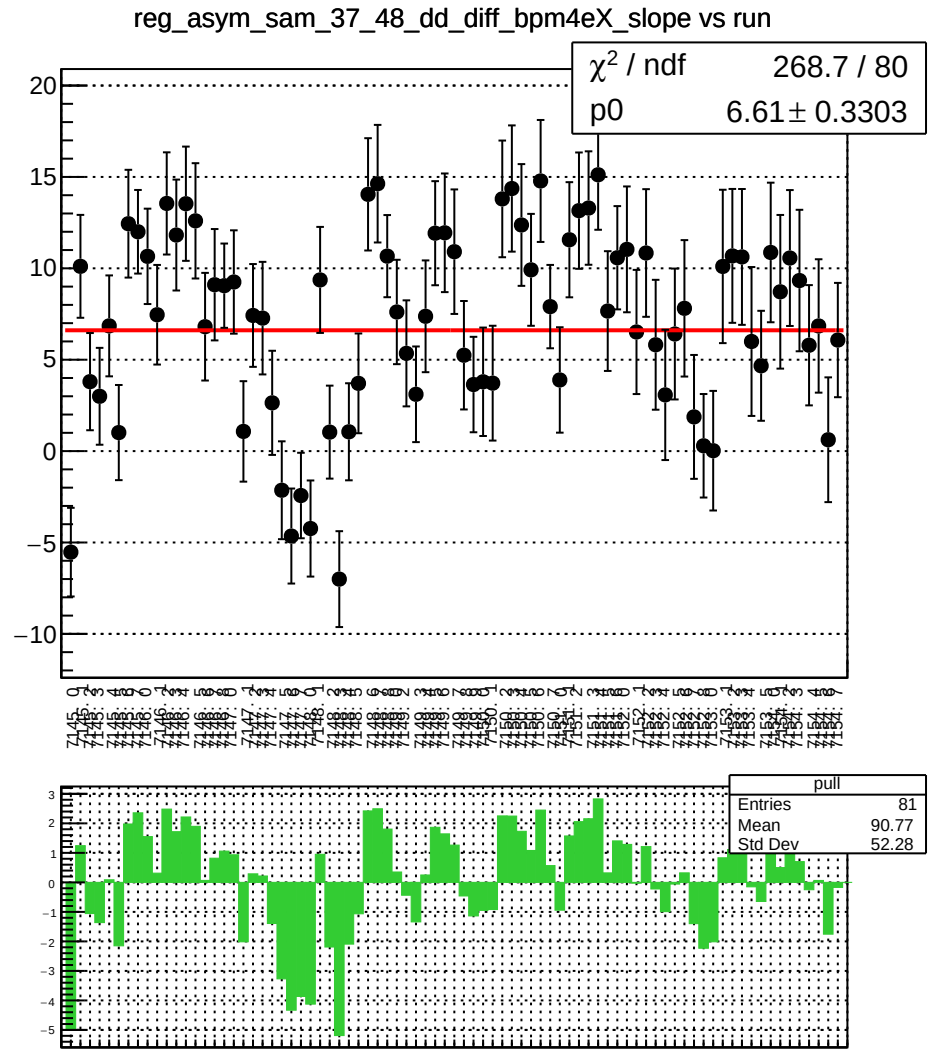

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 270.8 / 80
p0 28.02 ± 0.3503
pull
Entries 81
Mean 109.7
Std Dev 69.75
pull1D
Entries 81
Mean 0.103
Std Dev 1.826

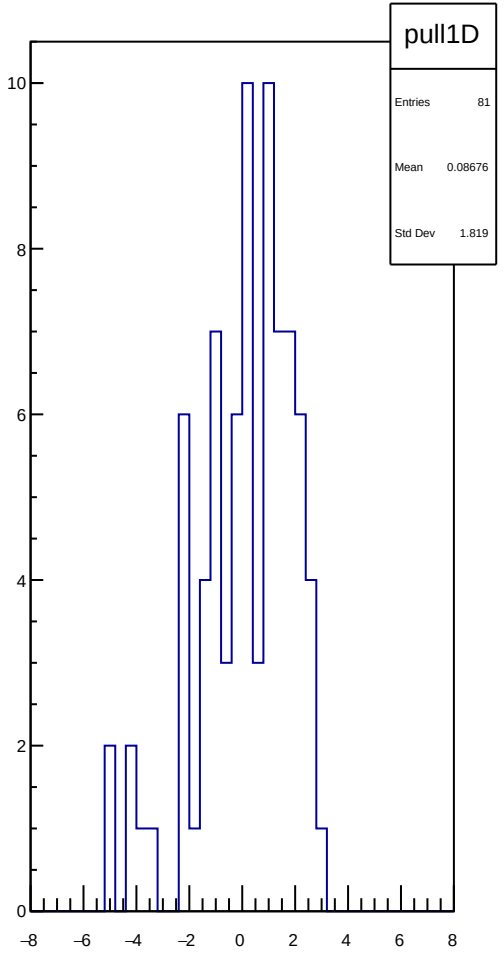

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 120.2 / 80
p0 −26.62 ± 0.3211
pull
Entries 81
Mean 315
Std Dev 263.8
pull1D
Entries 81
Mean 0.02684
Std Dev 1.218

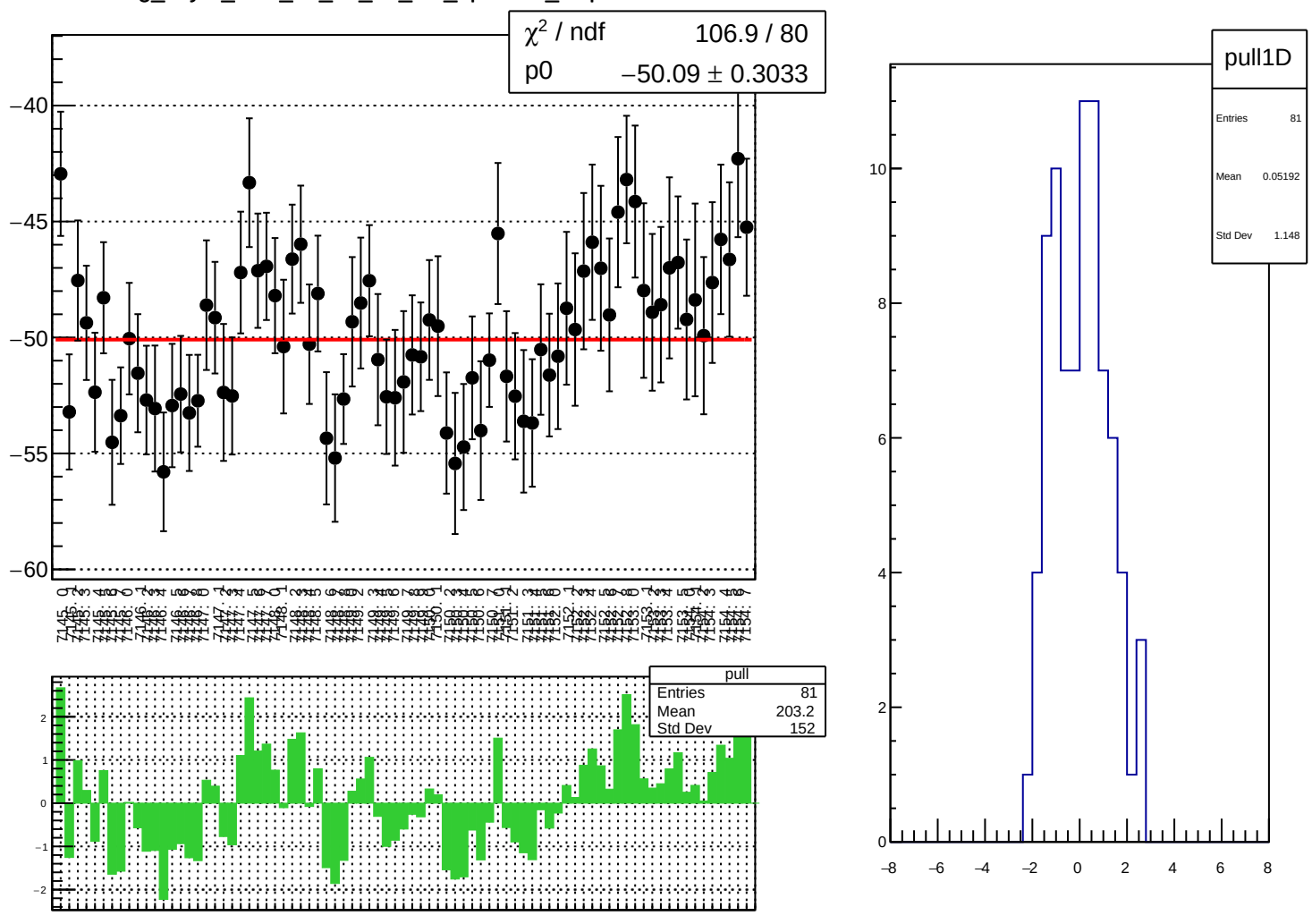

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 77.01 / 80
p0 0.144 ± 0.01415
pull
Entries 81
Mean 591.1
Std Dev 549.1
pull1D
Entries 81
Mean 0.03898
Std Dev 0.9743

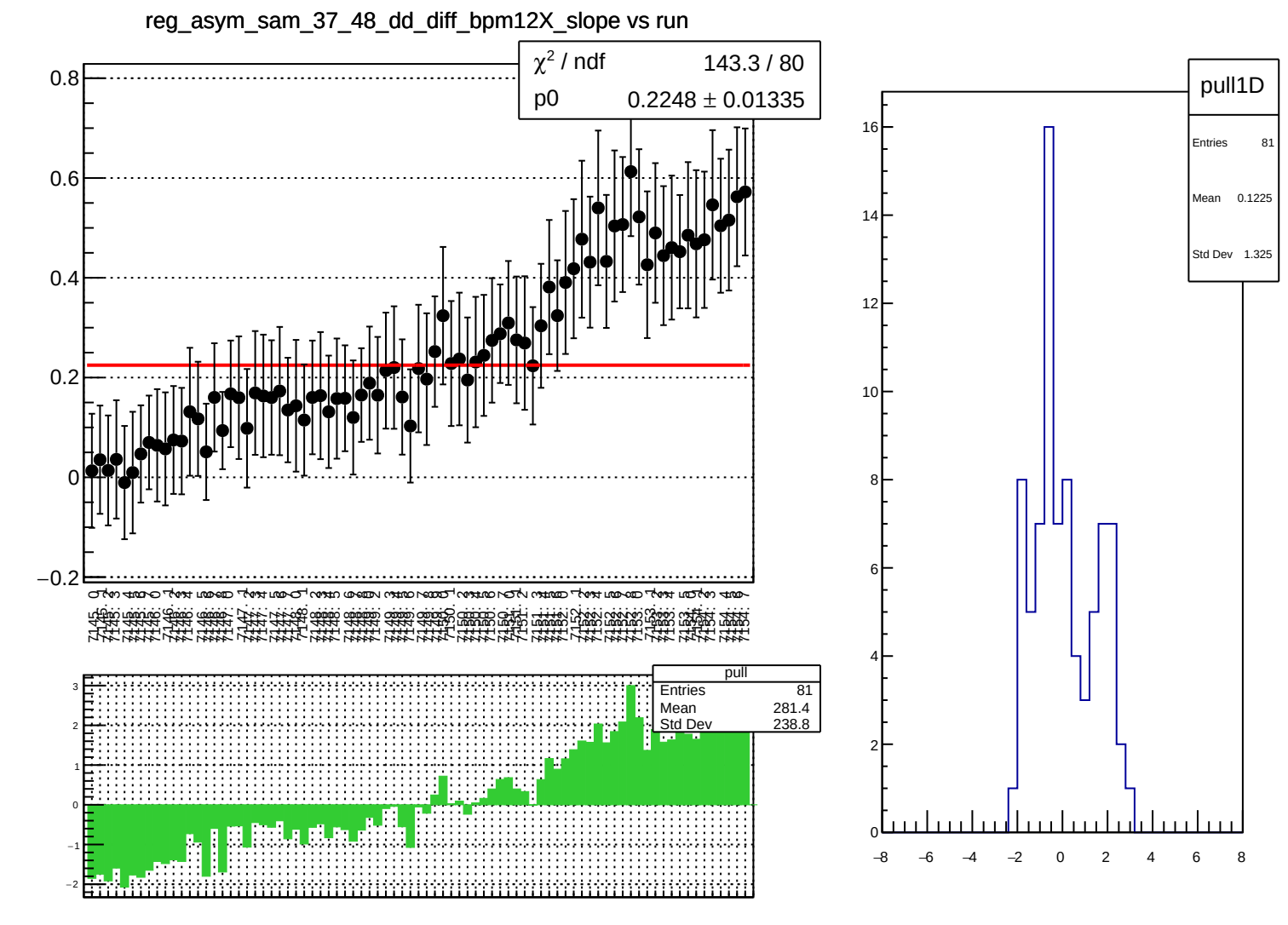

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 283.1 / 80
p0 11.73 ± 0.3226
pull
Entries 81
Mean 73.7
Std Dev 37.95
pull1D
Entries 81
Mean −0.07883
Std Dev 1.868

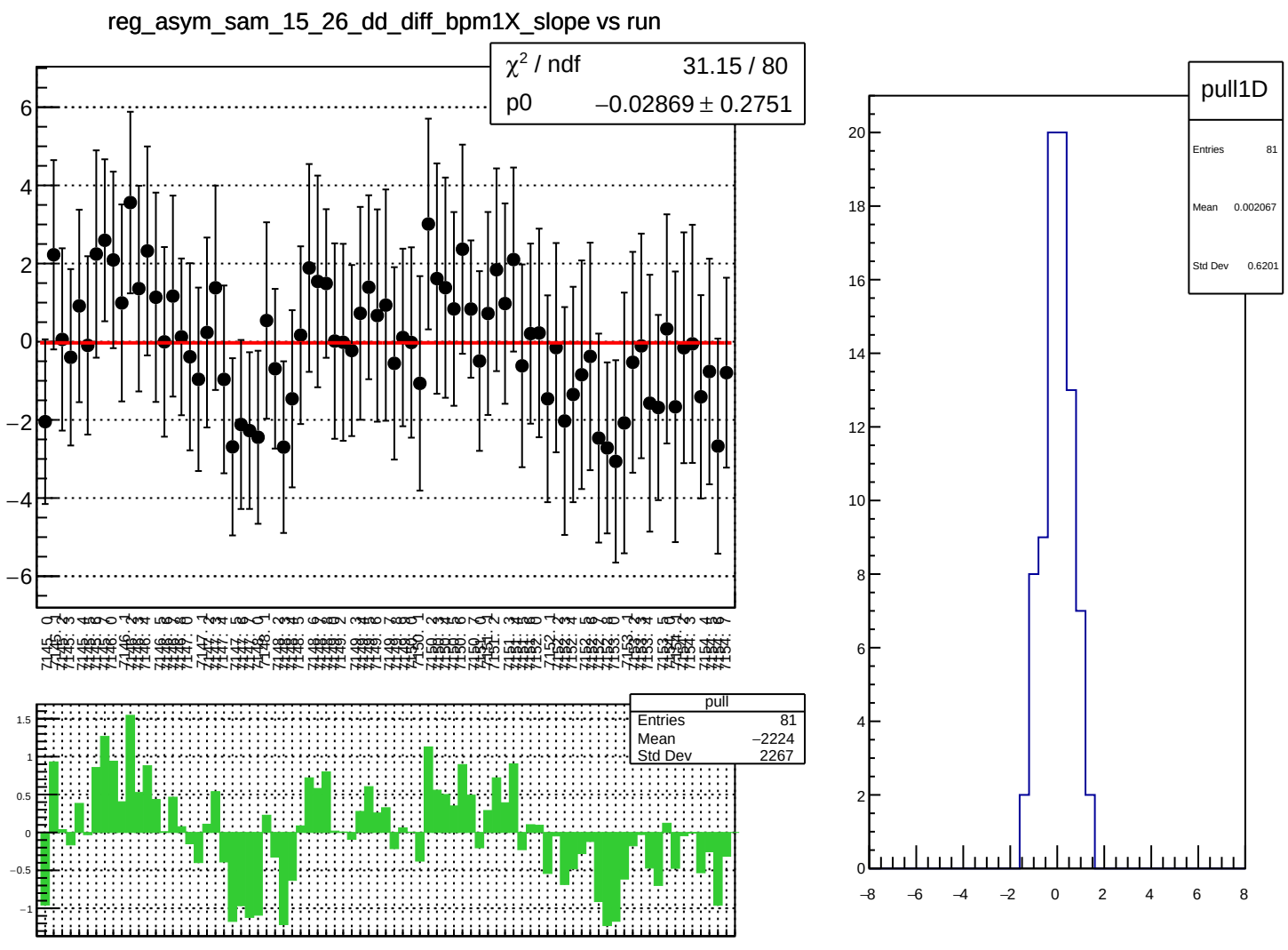

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 120.7 / 80
p0 2.465 ± 0.2784
pull
Entries 81
Mean 66.21
Std Dev 60.58
pull1D
Entries 81
Mean −0.02994
Std Dev 1.22

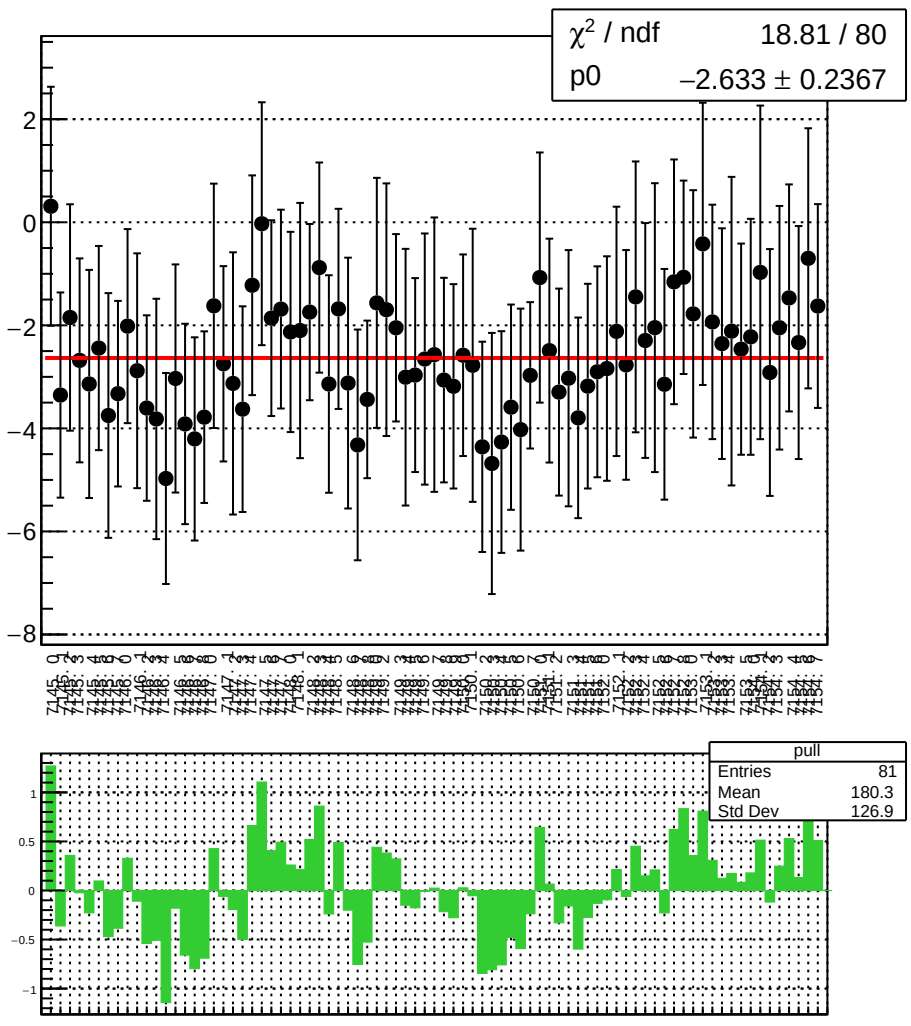

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 268.7 / 80
p0 6.61 ± 0.3303
pull
Entries 81
Mean 90.77
Std Dev 52.28

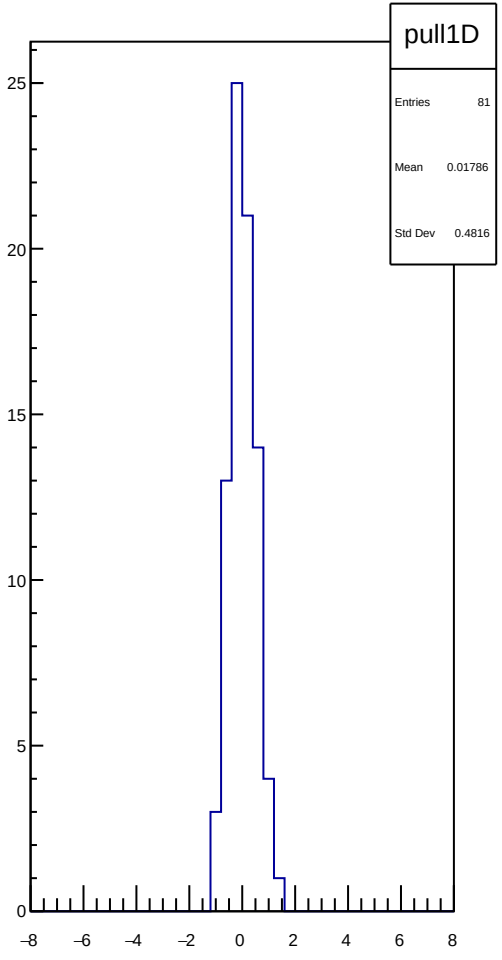

pull1D
Entries 81
Mean 0.08676
Std Dev 1.819

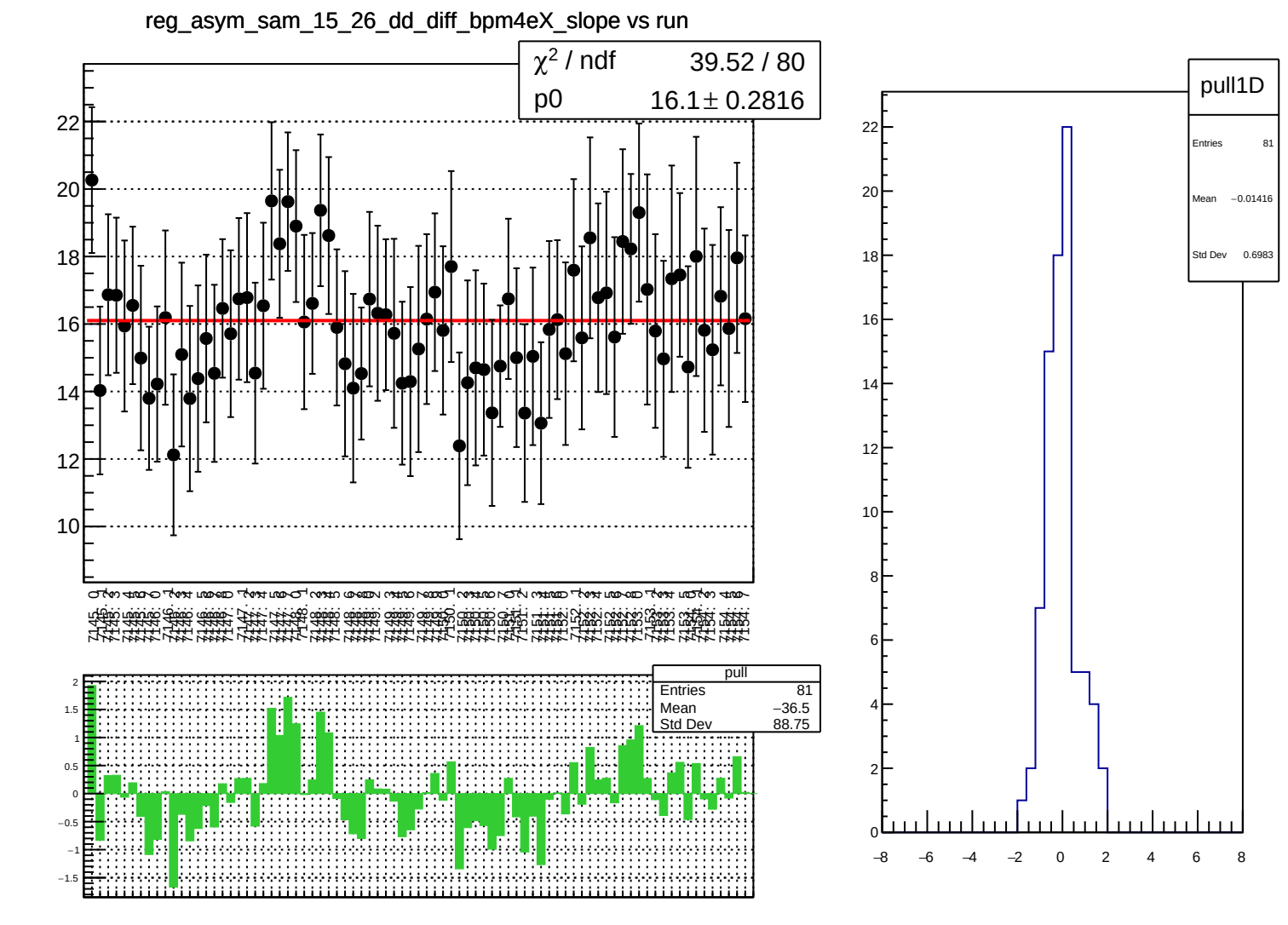

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 106.9 / 80
p0 −50.09 ± 0.3033
pull
Entries 81
Mean 203.2
Std Dev 152
pull1D
Entries 81
Mean 0.05192
Std Dev 1.148

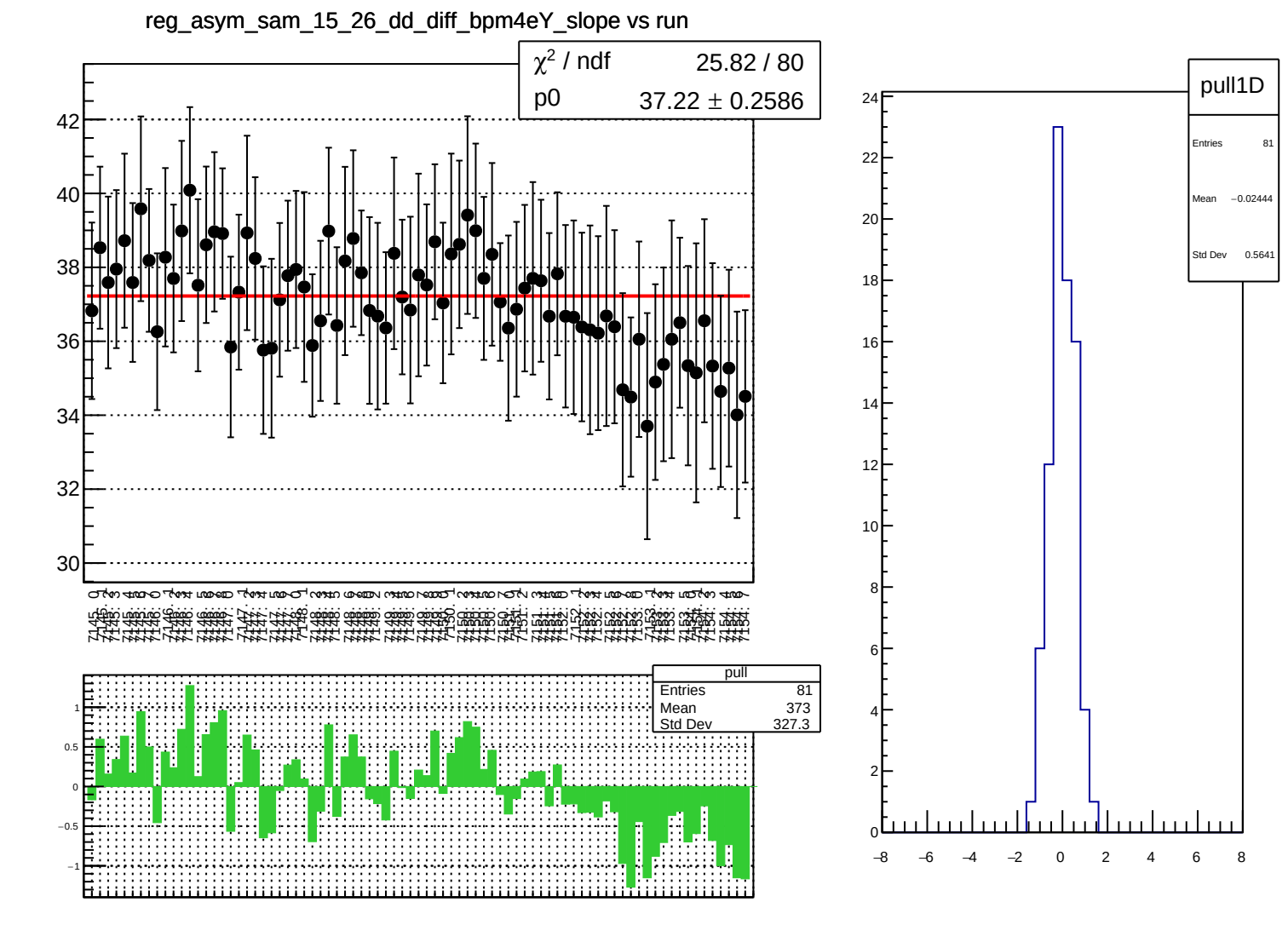

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 143.3 / 80
p0 0.2248 ± 0.01335
pull
Entries 81
Mean 281.4
Std Dev 238.8
pull1D
Entries 81
Mean 0.1225
Std Dev 1.325

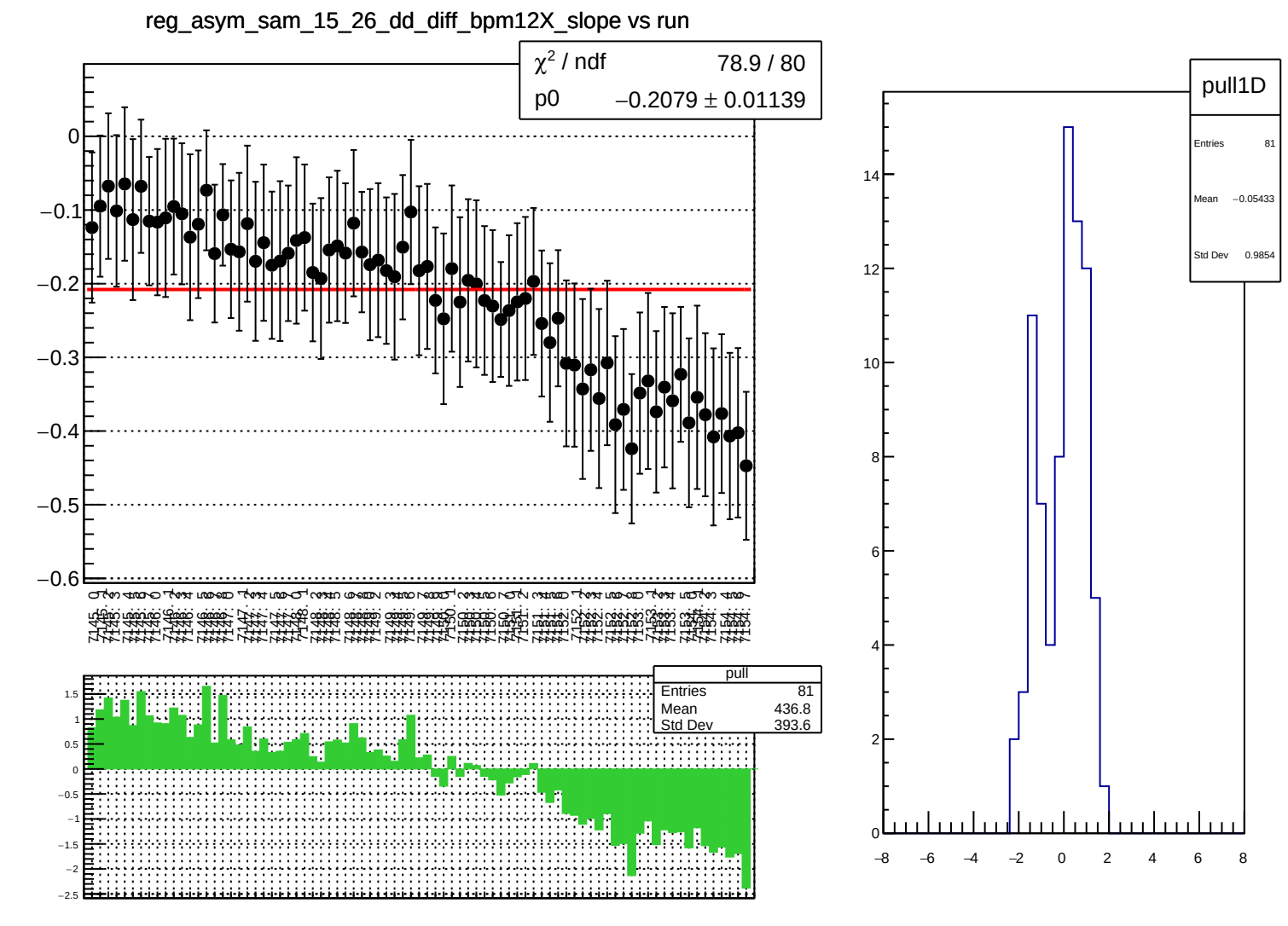

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 31.15 / 80
p0 −0.02869 ± 0.2751
pull
Entries 81
Mean −2224
Std Dev 2267
pull1D
Entries 81
Mean 0.002067
Std Dev 0.6201

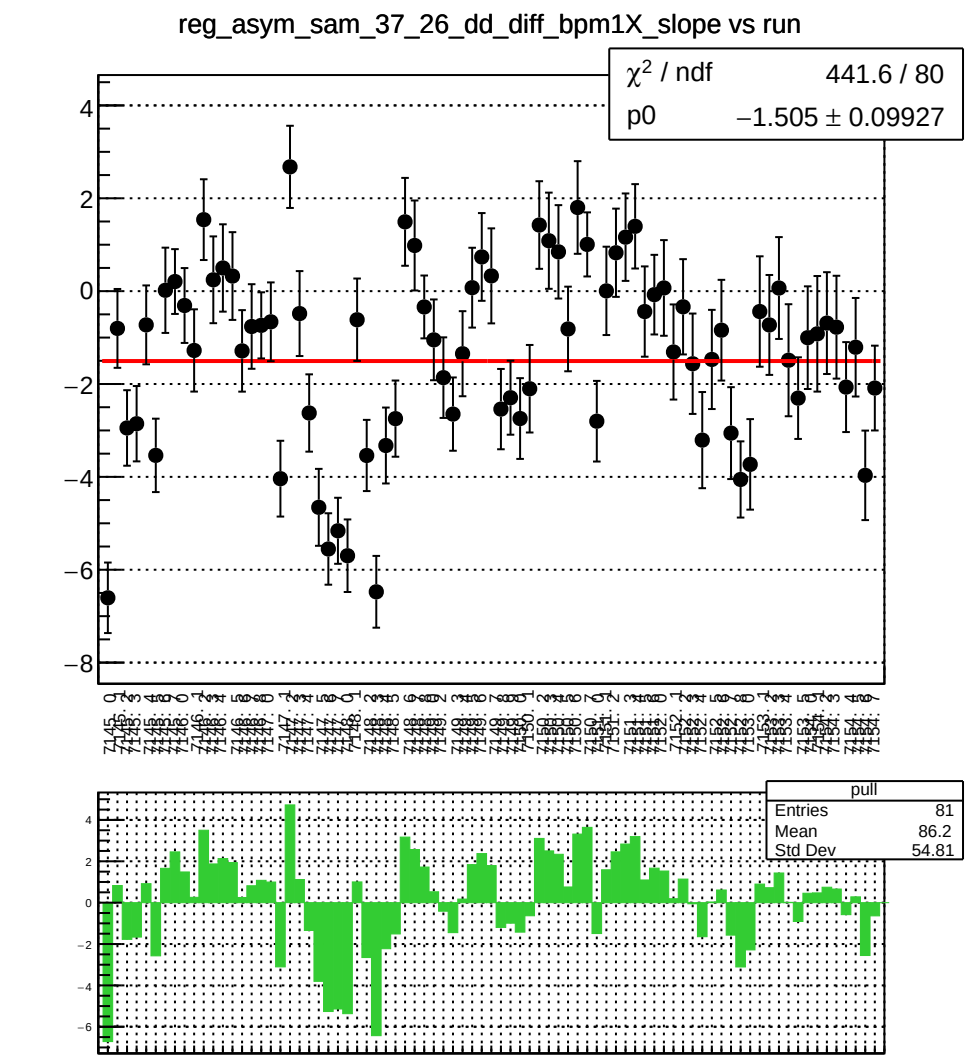

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.81 / 80
p0 −2.633 ± 0.2367
pull
Entries 81
Mean 180.3
Std Dev 126.9

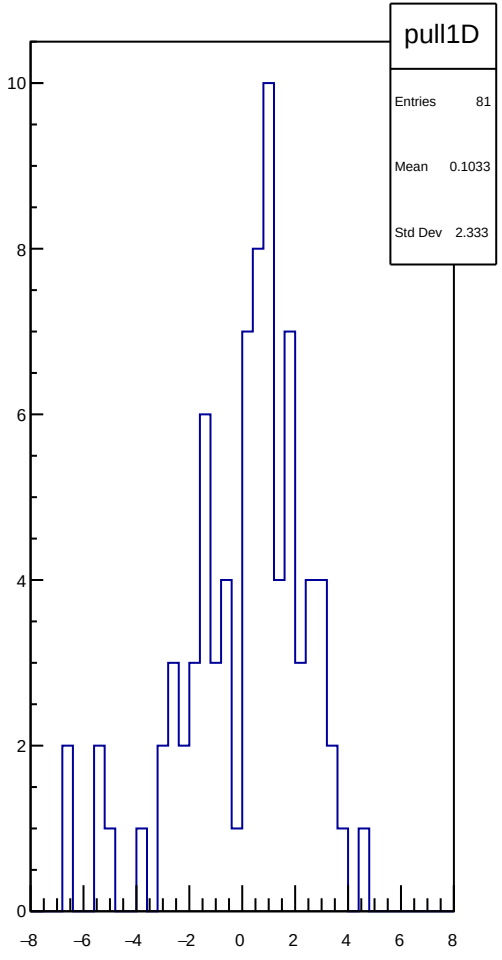

pull1D
Entries 81
Mean 0.01786
Std Dev 0.4816

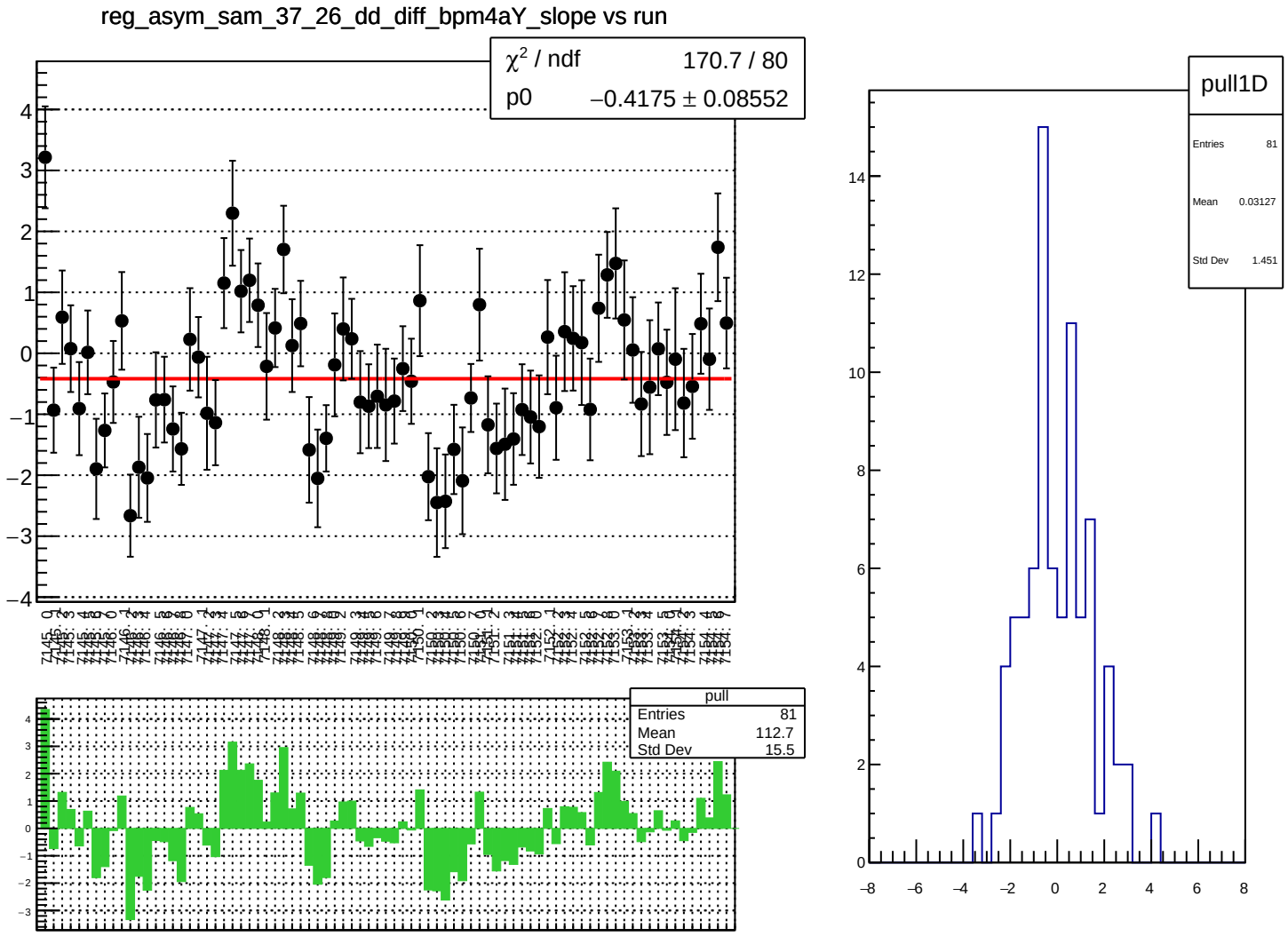

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.52 / 80
p0 16.1 ± 0.2816
pull
Entries 81
Mean −36.5
Std Dev 88.75
pull1D
Entries 81
Mean −0.01416
Std Dev 0.6983

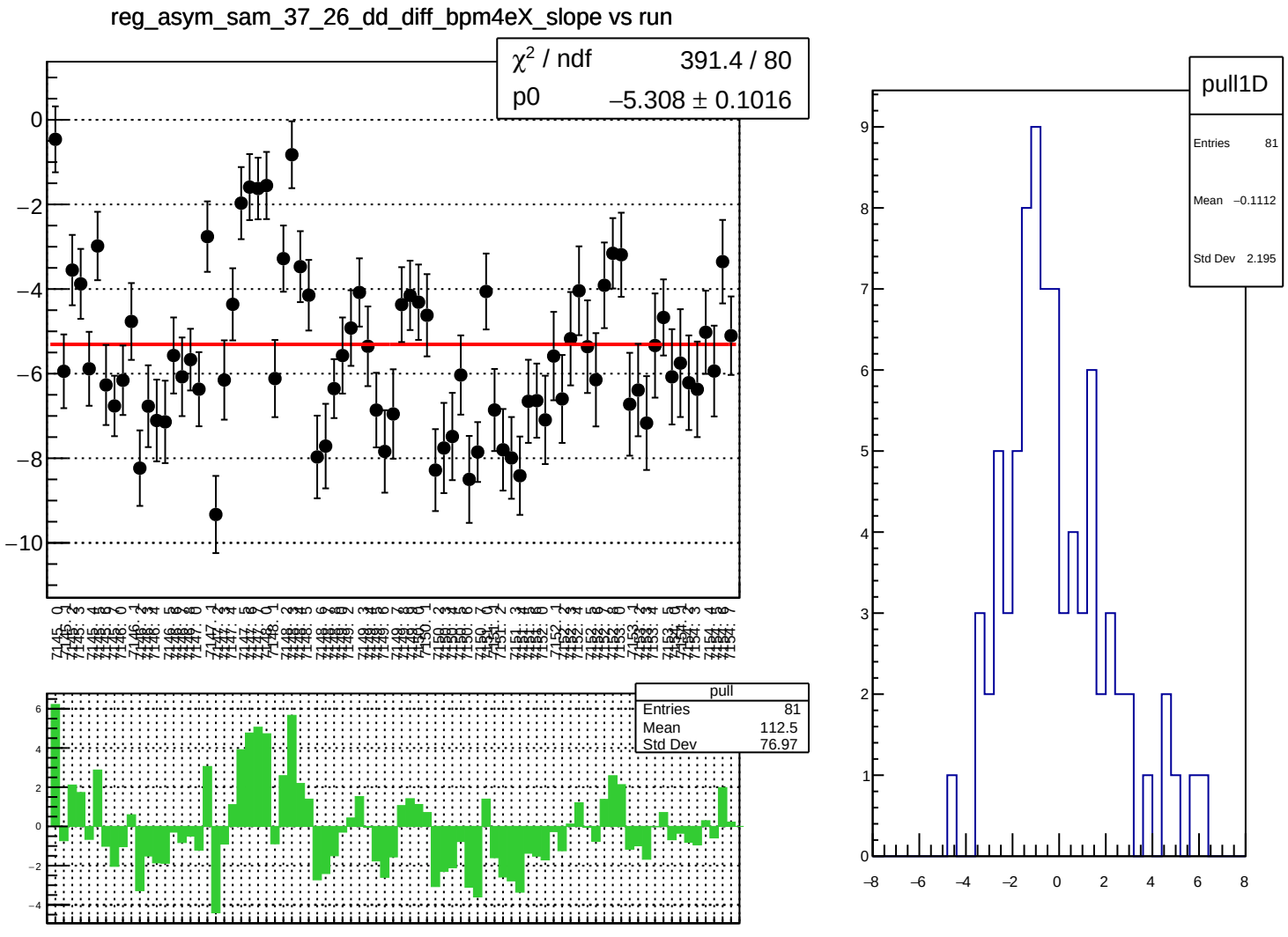

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.82 / 80
p0 37.22 ± 0.2586
pull
Entries 81
Mean 373
Std Dev 327.3
pull1D
Entries 81
Mean −0.02444
Std Dev 0.5641

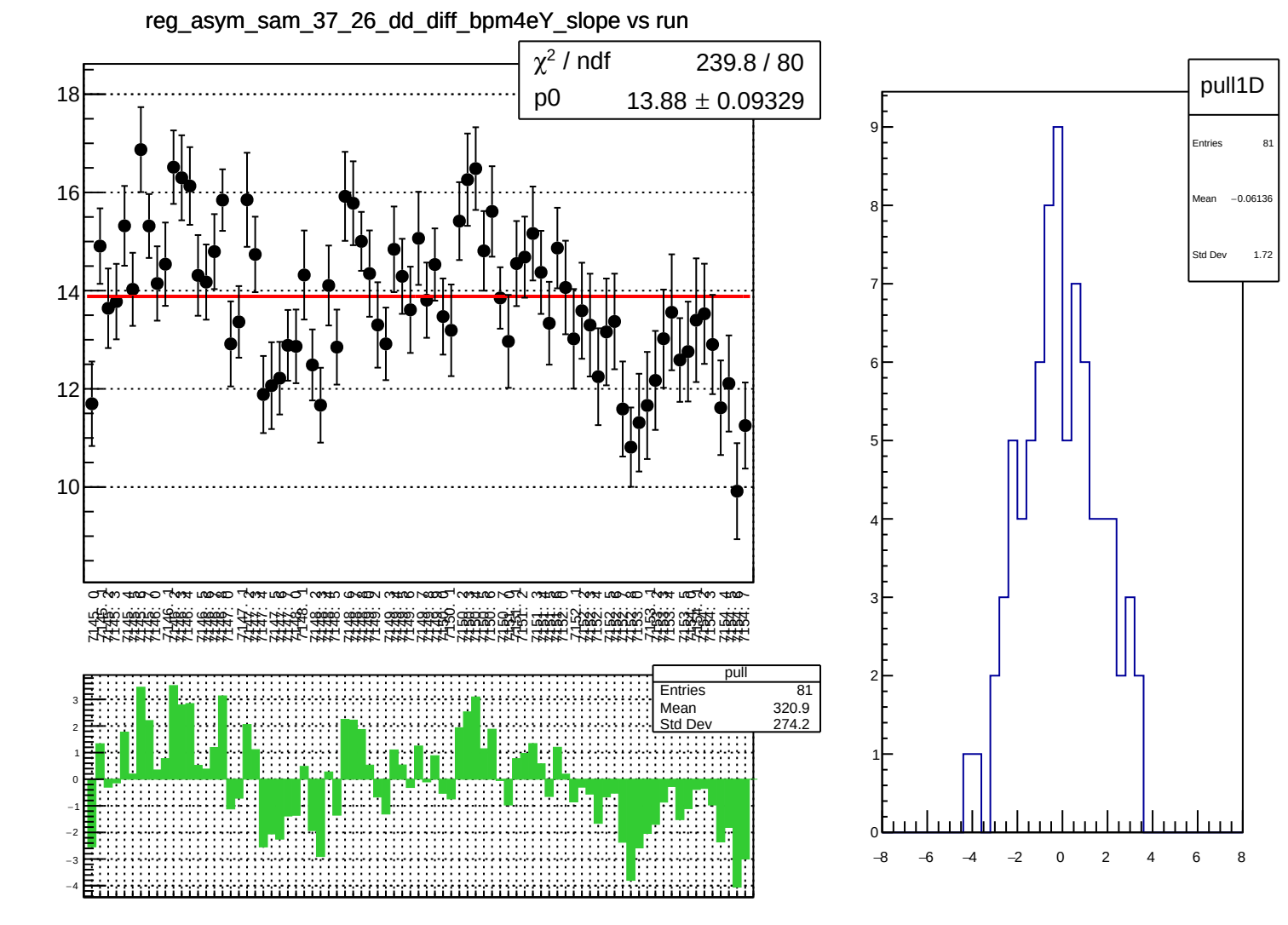

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 78.9 / 80
p0 −0.2079 ± 0.01139
pull
Entries 81
Mean 436.8
Std Dev 393.6
pull1D
Entries 81
Mean −0.05433
Std Dev 0.9854

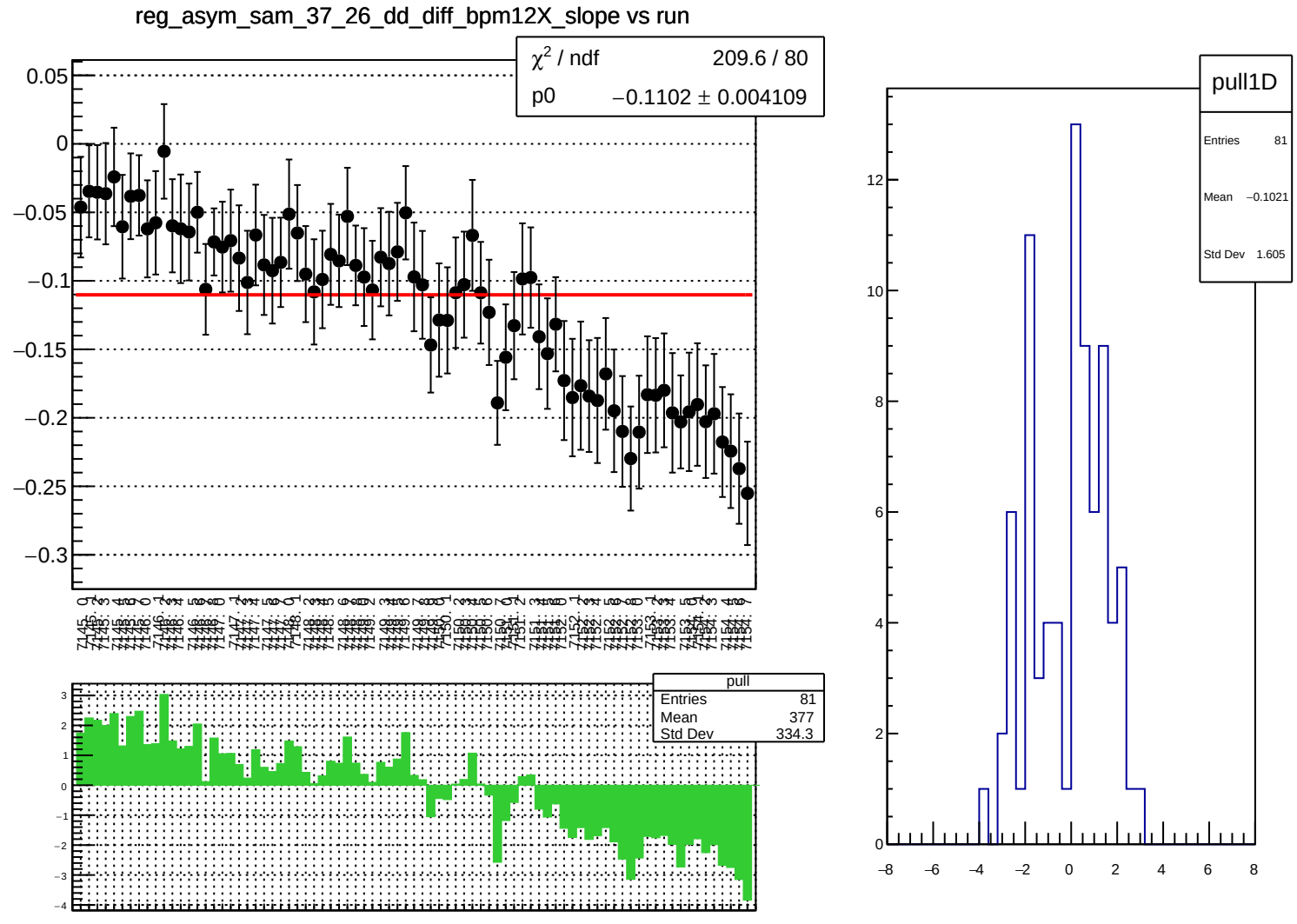

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 441.6 / 80
p0 −1.505 ± 0.09927
pull
Entries 81
Mean 86.2
Std Dev 54.81

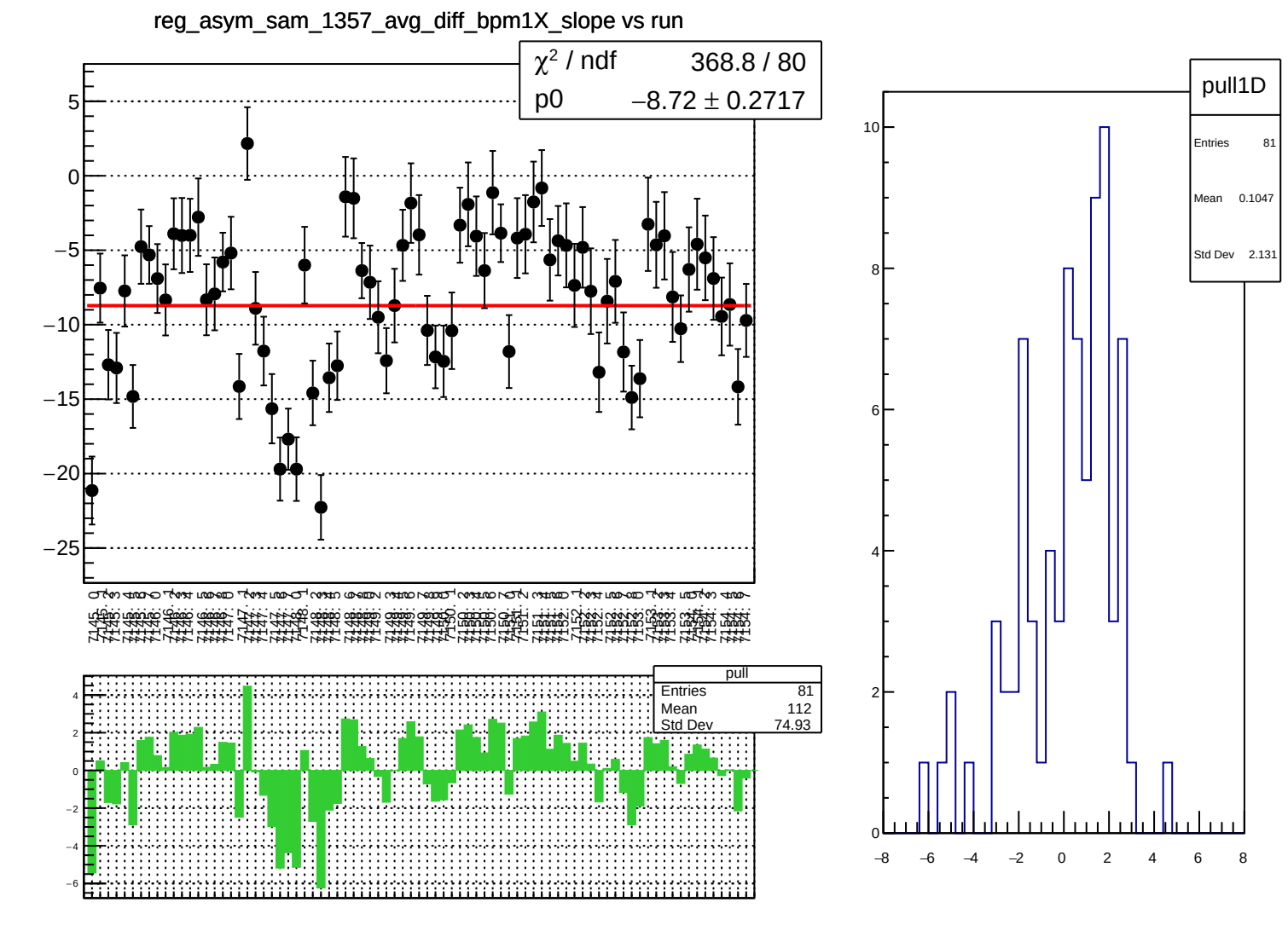

pull1D
Entries 81
Mean 0.1033
Std Dev 2.333

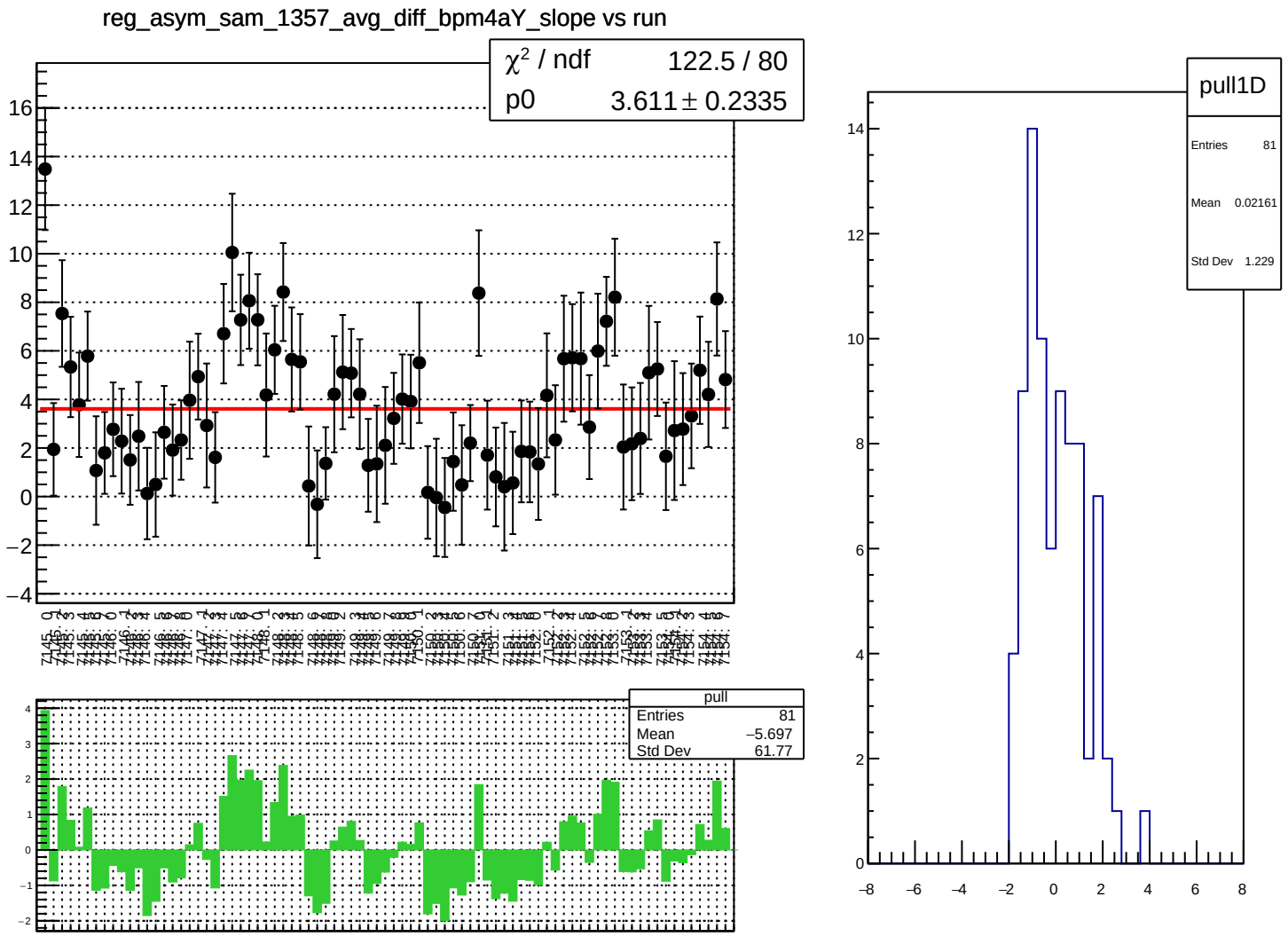

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 170.7 / 80
p0 −0.4175 ± 0.08552
pull
Entries 81
Mean 112.7
Std Dev 15.5
pull1D
Entries 81
Mean 0.03127
Std Dev 1.451

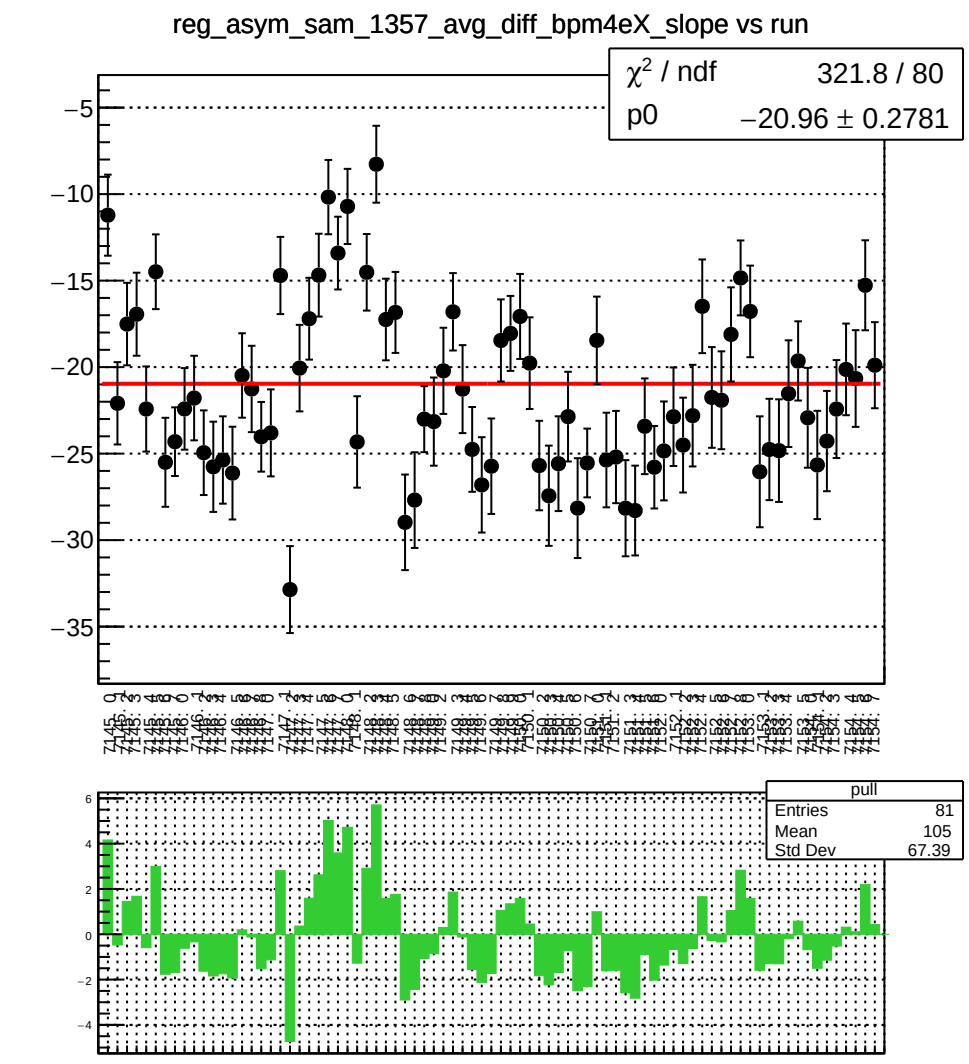

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 391.4 / 80
p0 −5.308 ± 0.1016
pull
Entries 81
Mean 112.5
Std Dev 76.97
pull1D
Entries 81
Mean −0.1112
Std Dev 2.195

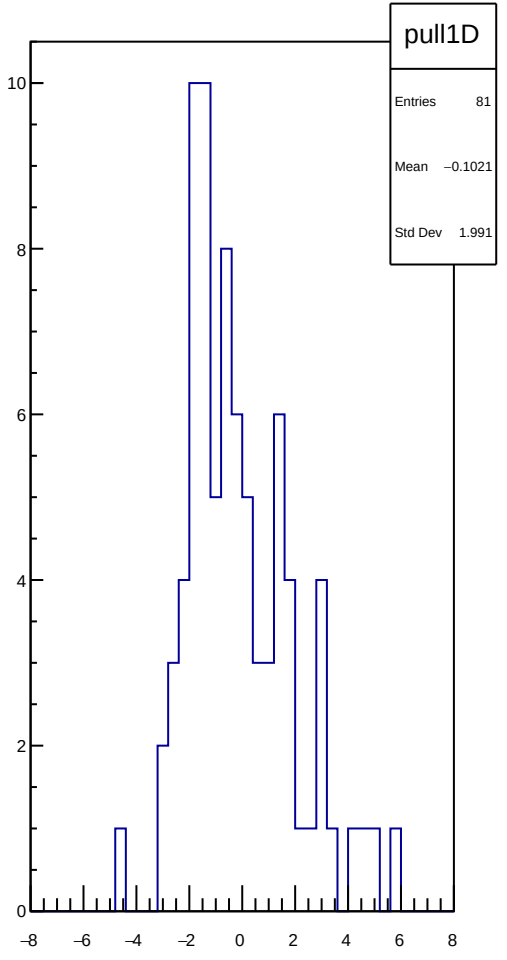

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 239.8 / 80
p0 13.88 ± 0.09329
pull
Entries 81
Mean 320.9
Std Dev 274.2
pull1D
Entries 81
Mean −0.06136
Std Dev 1.72

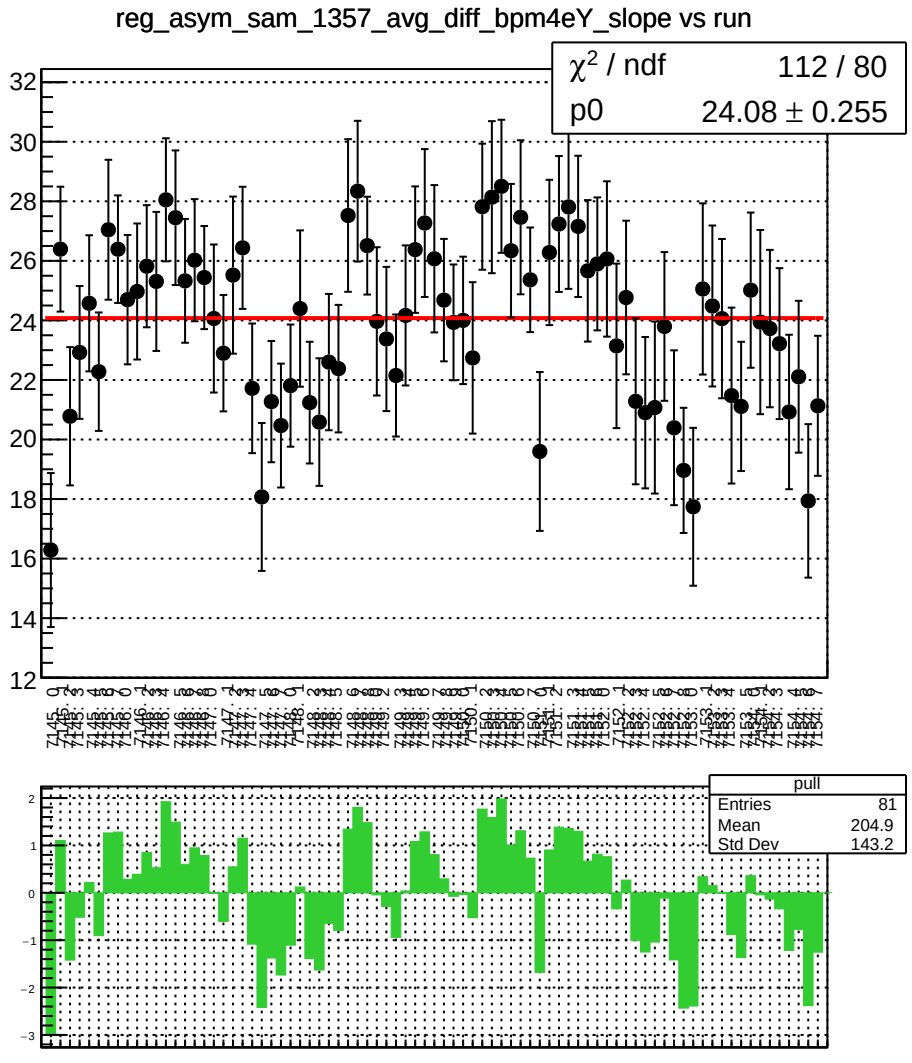

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 209.6 / 80
p0 −0.1102 ± 0.004109
pull
Entries 81
Mean 377
Std Dev 334.3
pull1D
Entries 81
Mean −0.1021
Std Dev 1.605

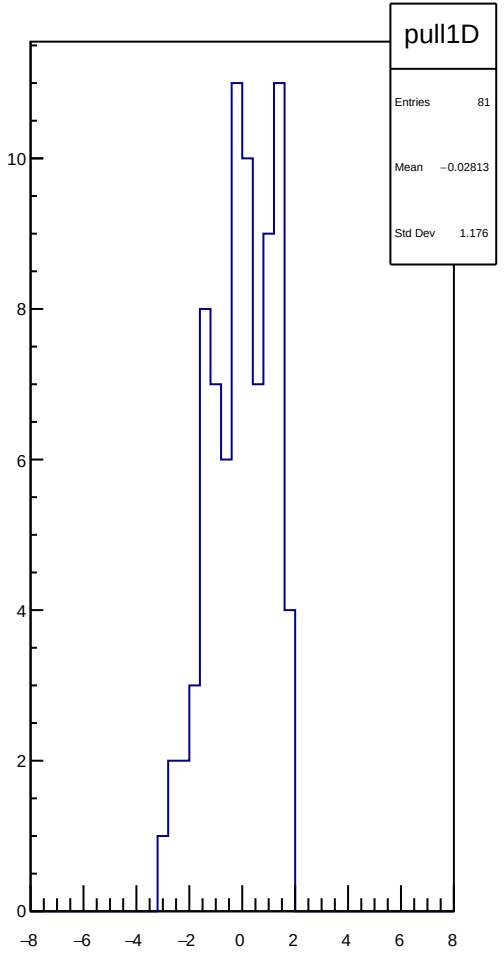

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 368.8 / 80
p0 −8.72 ± 0.2717
pull
Entries 81
Mean 112
Std Dev 74.93
pull1D
Entries 81
Mean 0.1047
Std Dev 2.131

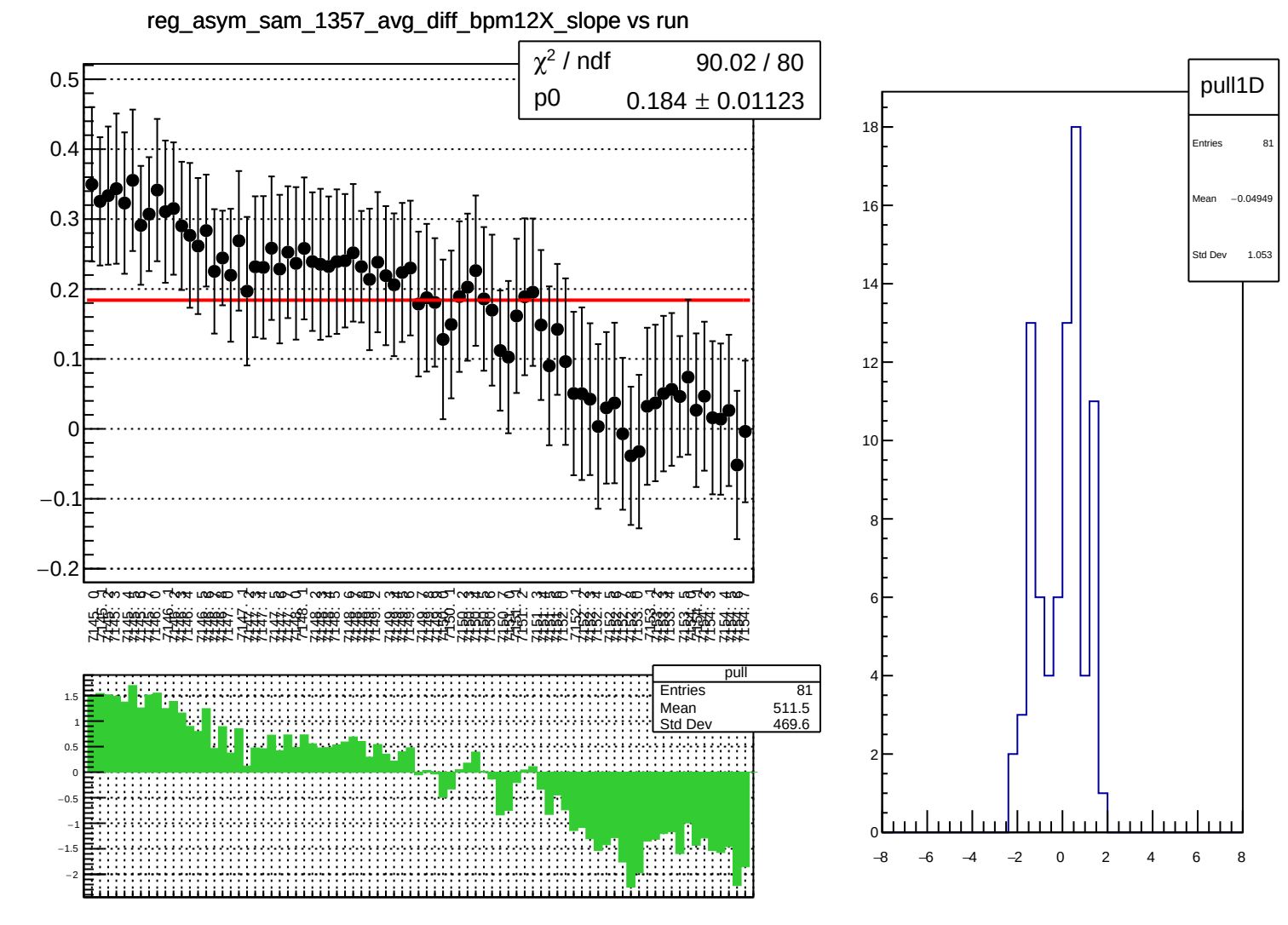

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 122.5 / 80
p0 3.611 ± 0.2335
pull
Entries 81
Mean −5.697
Std Dev 61.77
pull1D
Entries 81
Mean 0.02161
Std Dev 1.229

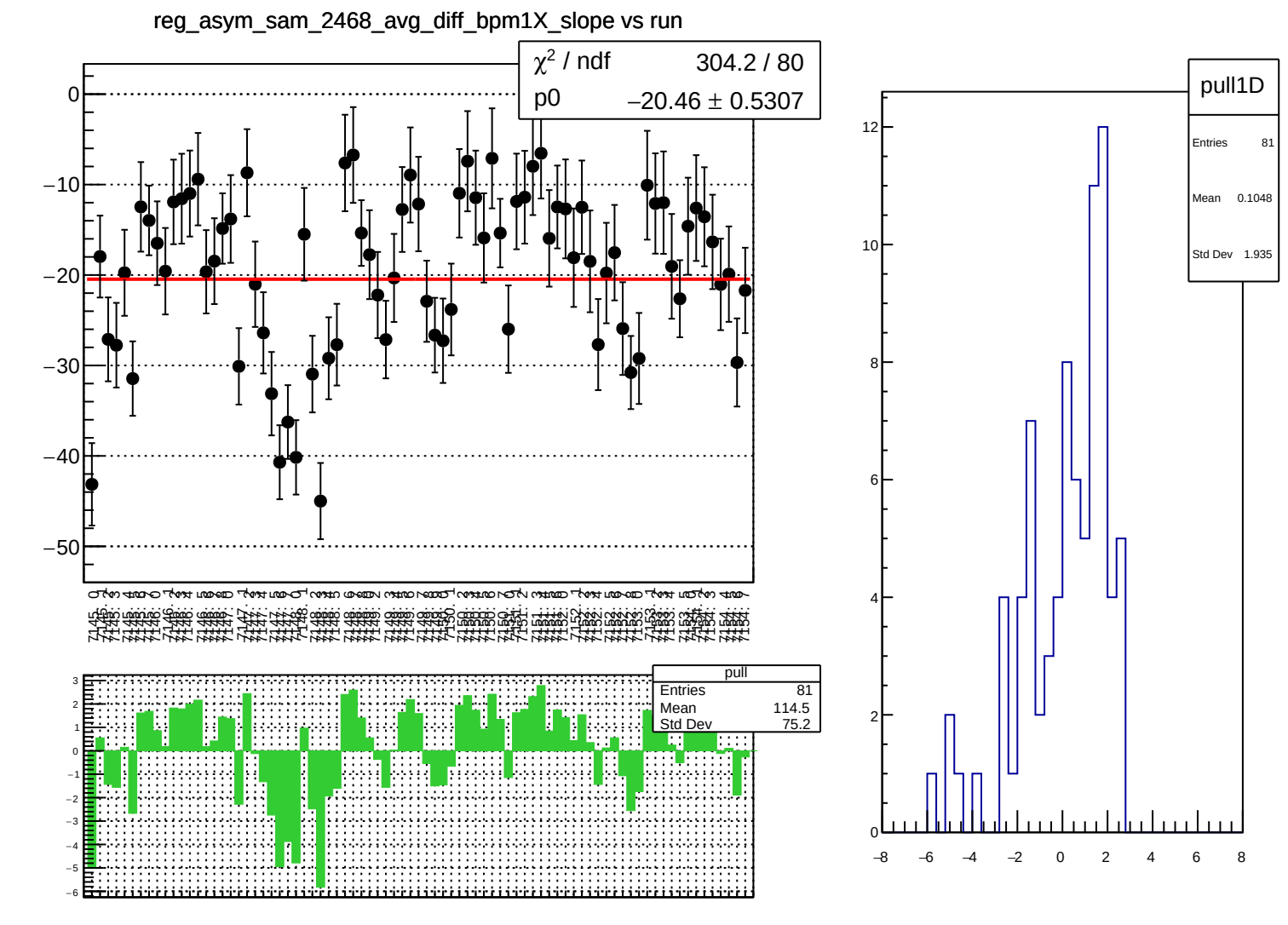

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 321.8 / 80
p0 −20.96 ± 0.2781
pull
Entries 81
Mean 105
Std Dev 67.39

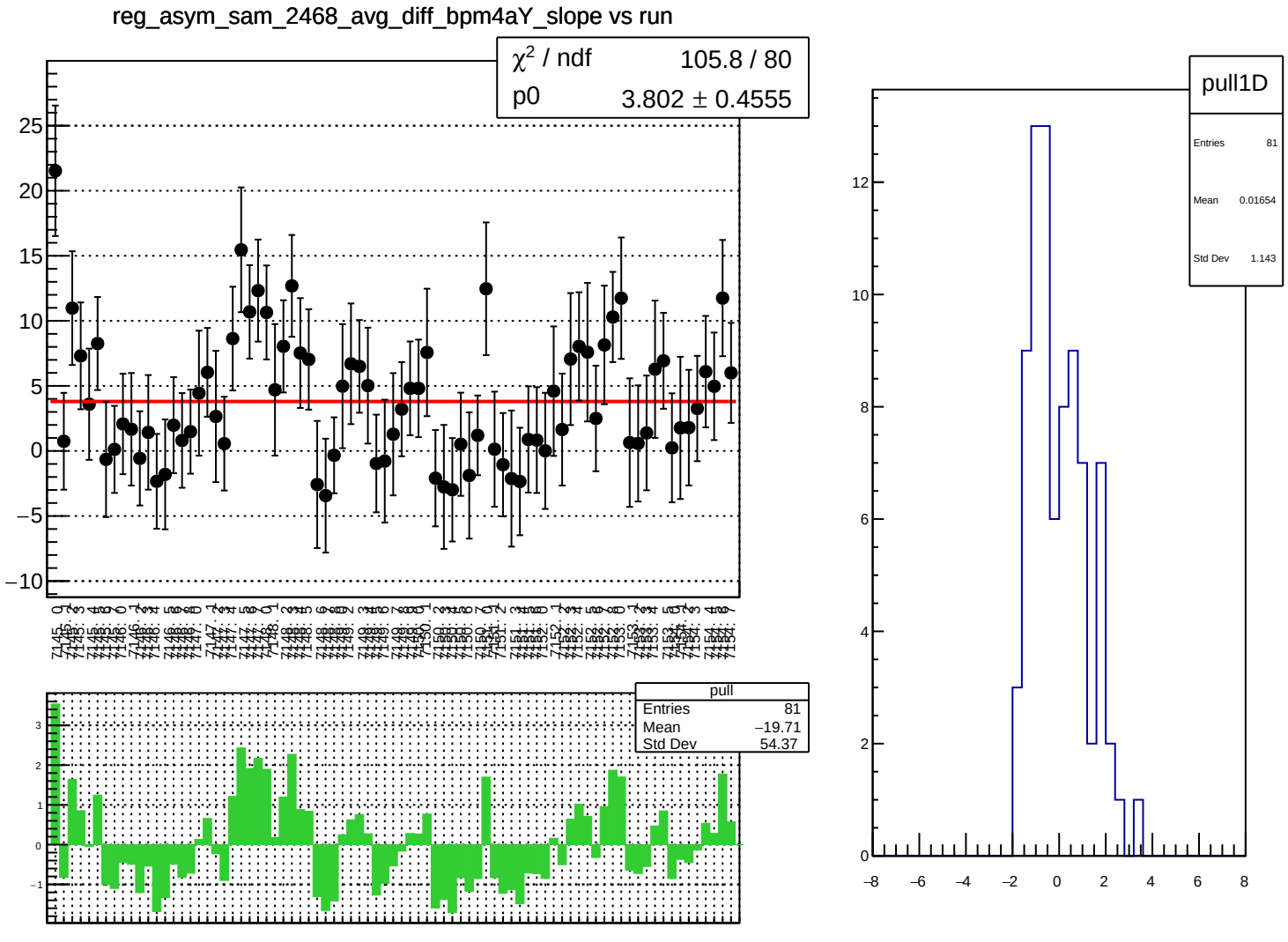

pull1D
Entries 81
Mean −0.1021
Std Dev 1.991

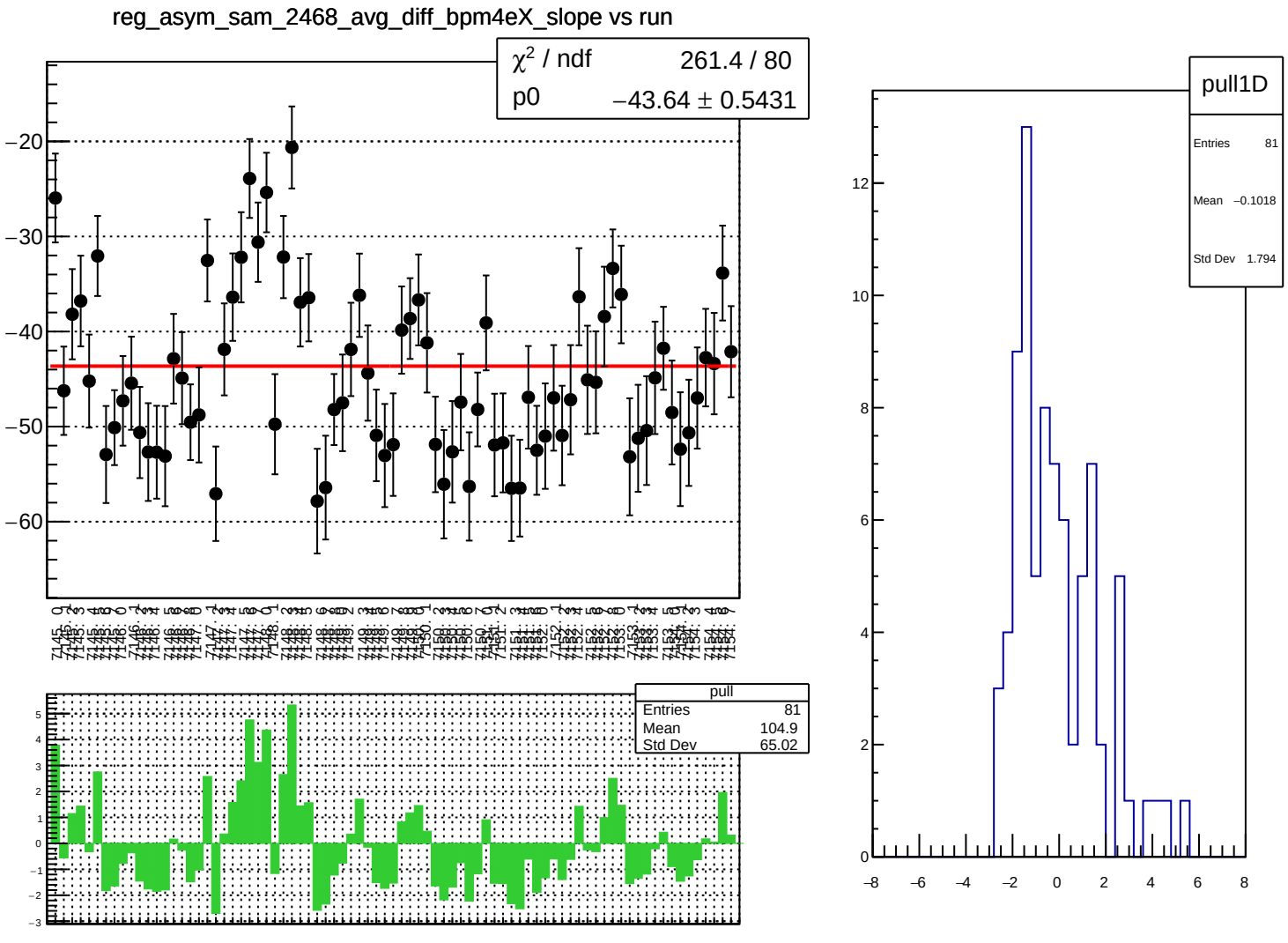

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 112 / 80
p0 24.08 ± 0.255
pull
Entries 81
Mean 204.9
Std Dev 143.2

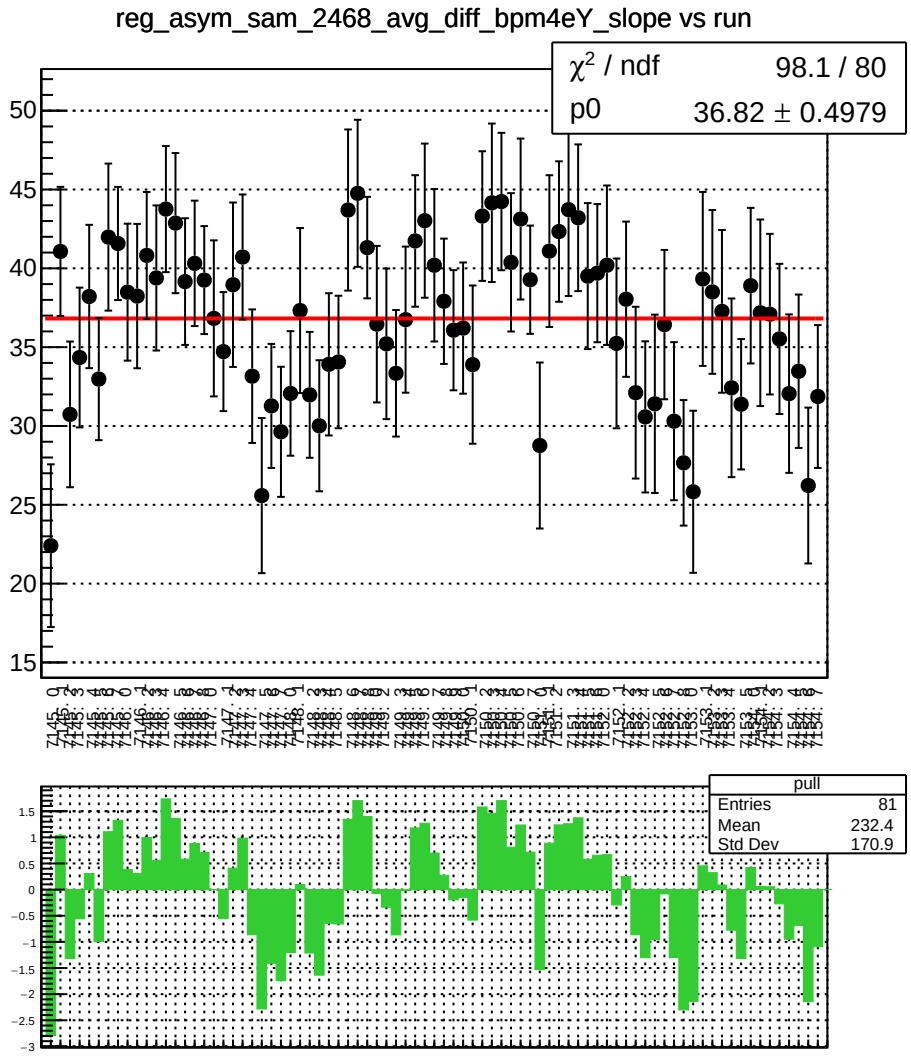

pull1D
Entries 81
Mean −0.02813
Std Dev 1.176

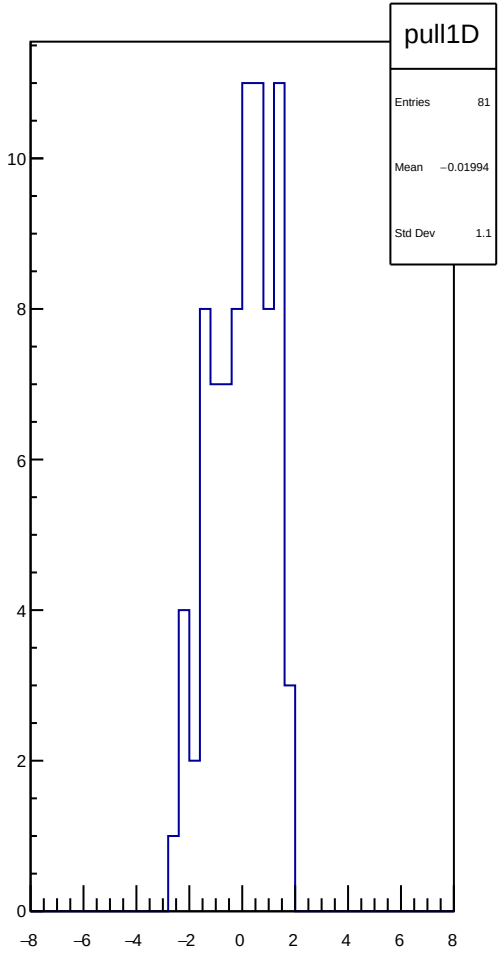

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 90.02 / 80
p0 0.184 ± 0.01123
pull
Entries 81
Mean 511.5
Std Dev 469.6
pull1D
Entries 81
Mean −0.04949
Std Dev 1.053

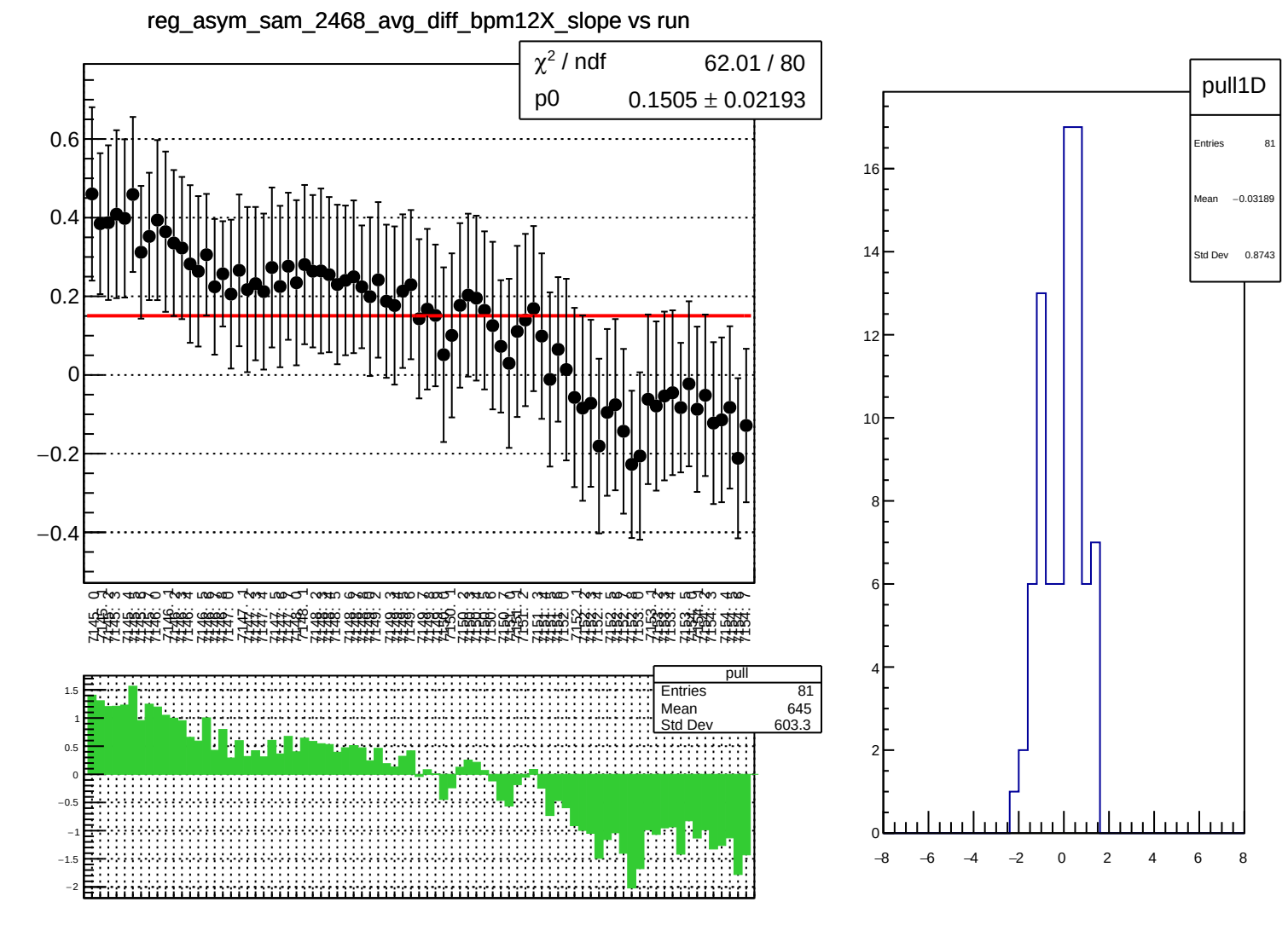

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 304.2 / 80
p0 −20.46 ± 0.5307
pull
Entries 81
Mean 114.5
Std Dev 75.2
pull1D
Entries 81
Mean 0.1048
Std Dev 1.935

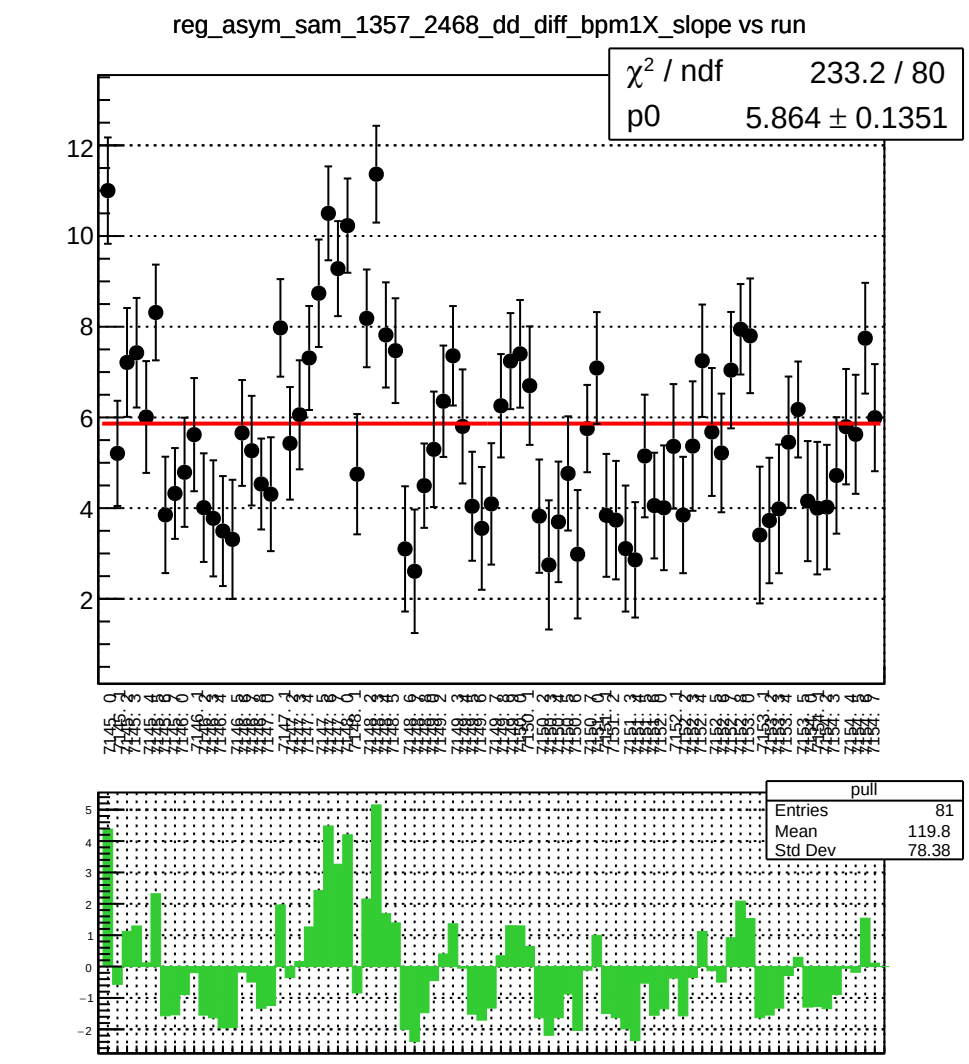

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 105.8 / 80
p0 3.802 ± 0.4555
pull
Entries 81
Mean −19.71
Std Dev 54.37
pull1D
Entries 81
Mean 0.01654
Std Dev 1.143

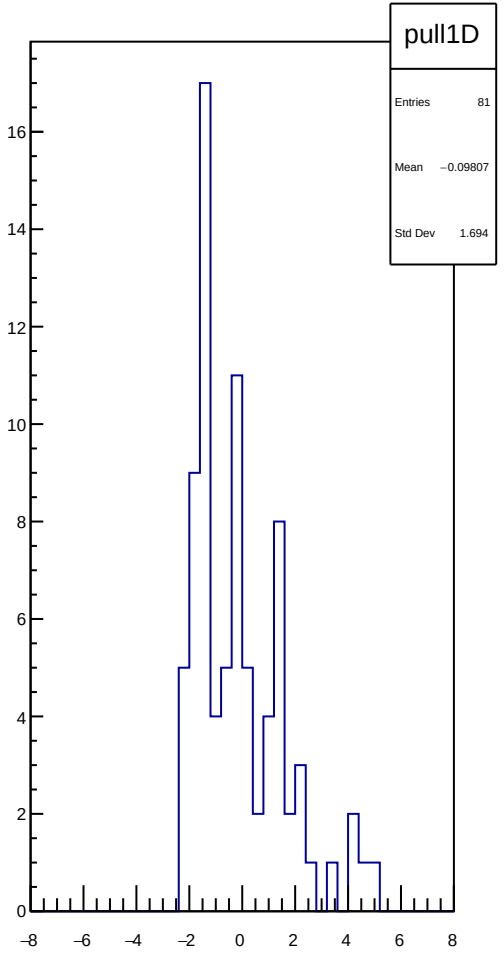

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 261.4 / 80
p0 −43.64 ± 0.5431
pull
Entries 81
Mean 104.9
Std Dev 65.02
pull1D
Entries 81
Mean −0.1018
Std Dev 1.794

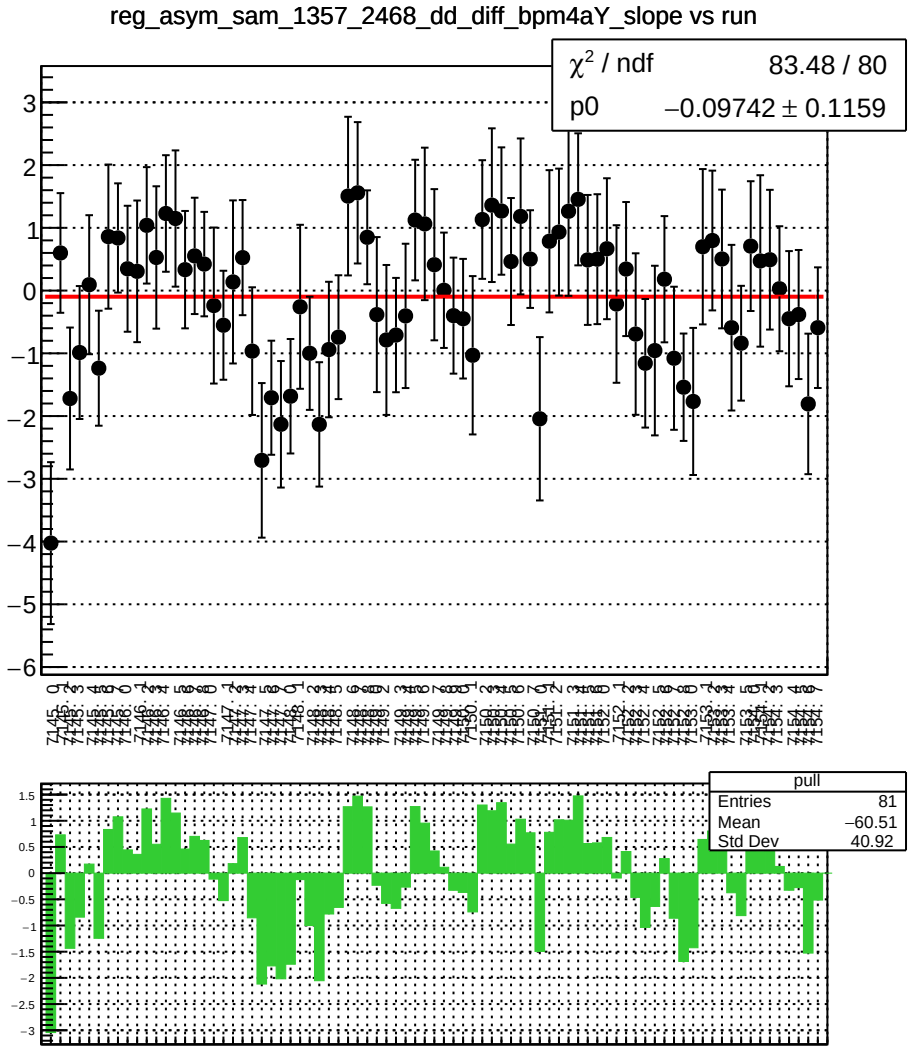

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 98.1 / 80
p0 36.82 ± 0.4979
pull
Entries 81
Mean 232.4
Std Dev 170.9

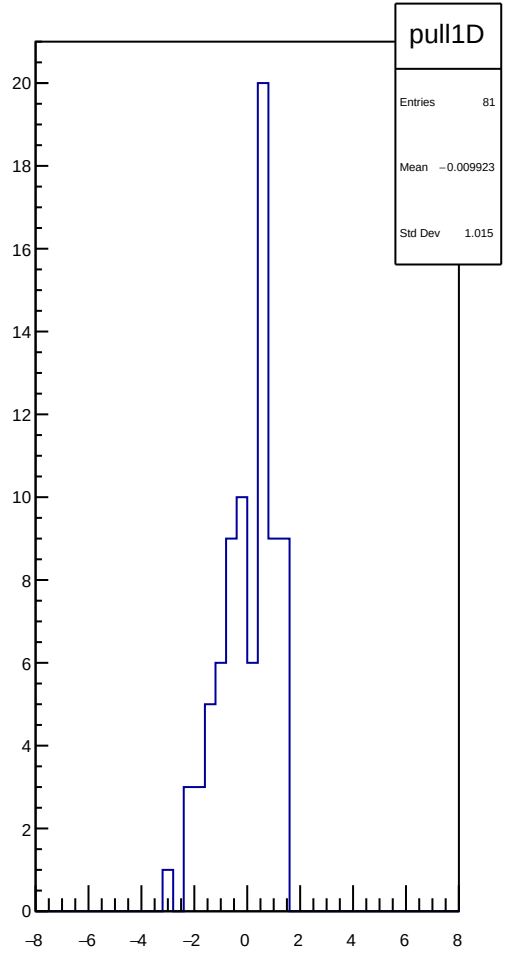

pull1D
Entries 81
Mean −0.01994
Std Dev 1.1

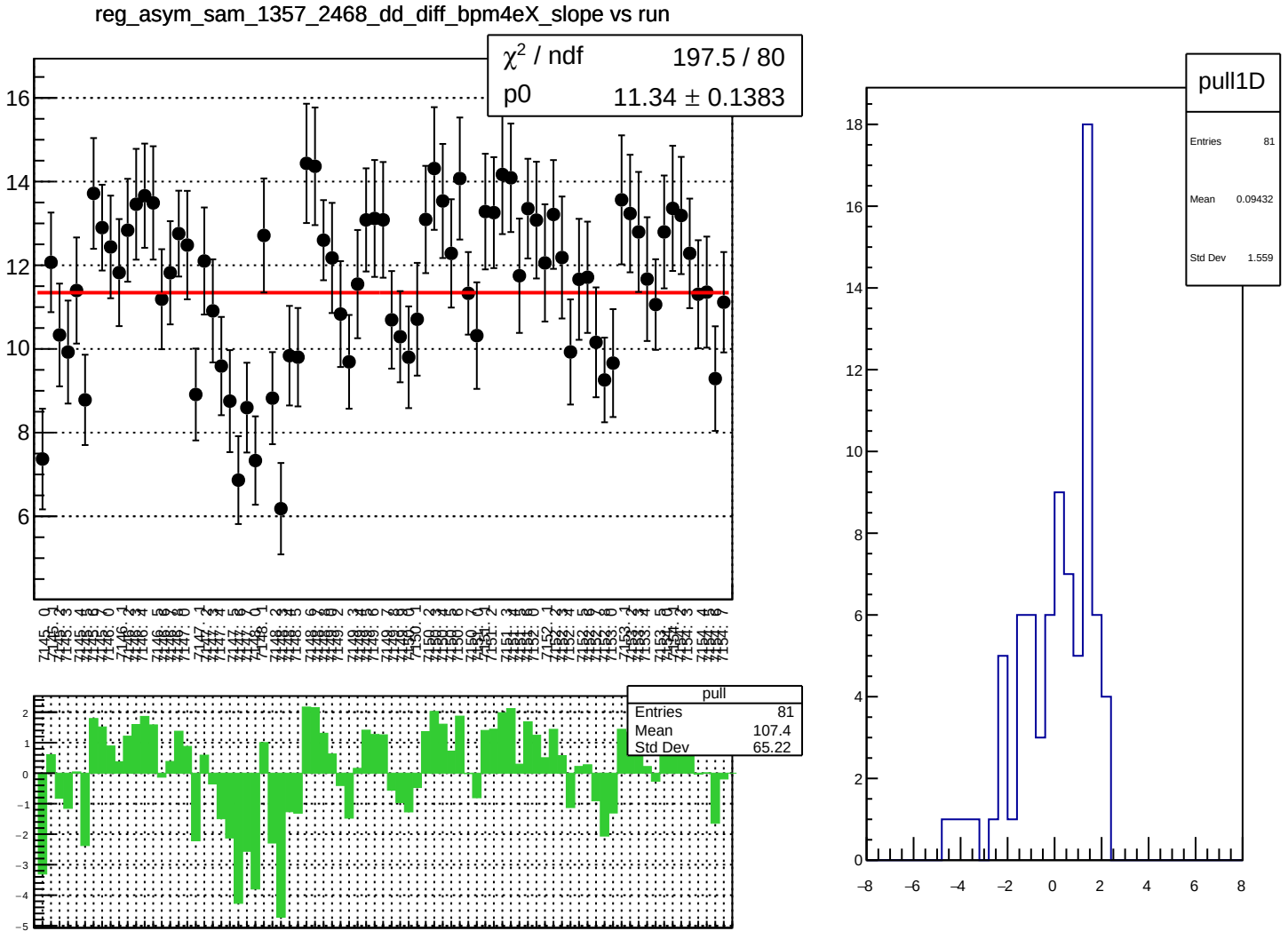

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 62.01 / 80
p0 0.1505 ± 0.02193
pull
Entries 81
Mean 645
Std Dev 603.3
pull1D
Entries 81
Mean −0.03189
Std Dev 0.8743

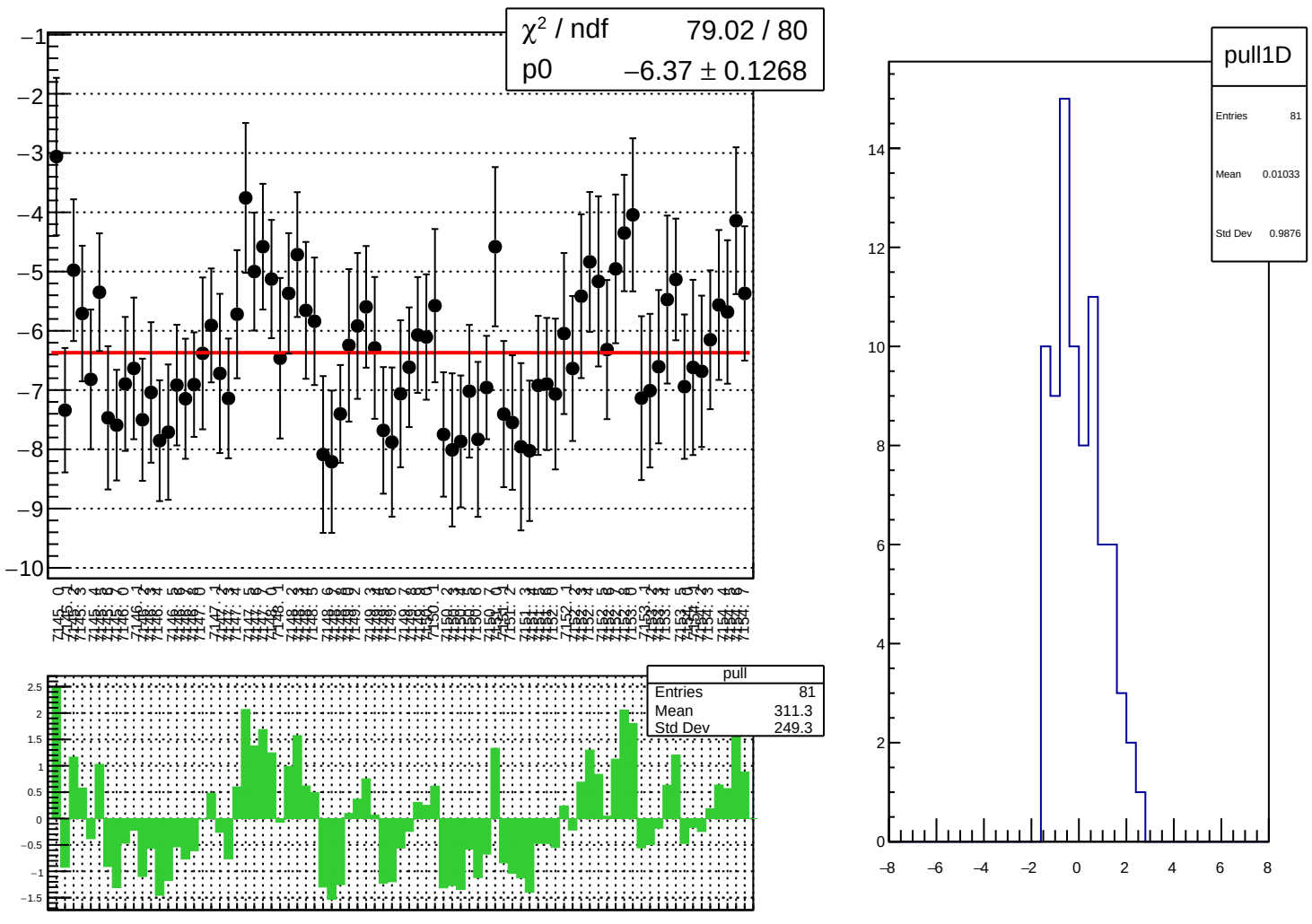

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 233.2 / 80
p0 5.864 ± 0.1351
pull
Entries 81
Mean 119.8
Std Dev 78.38

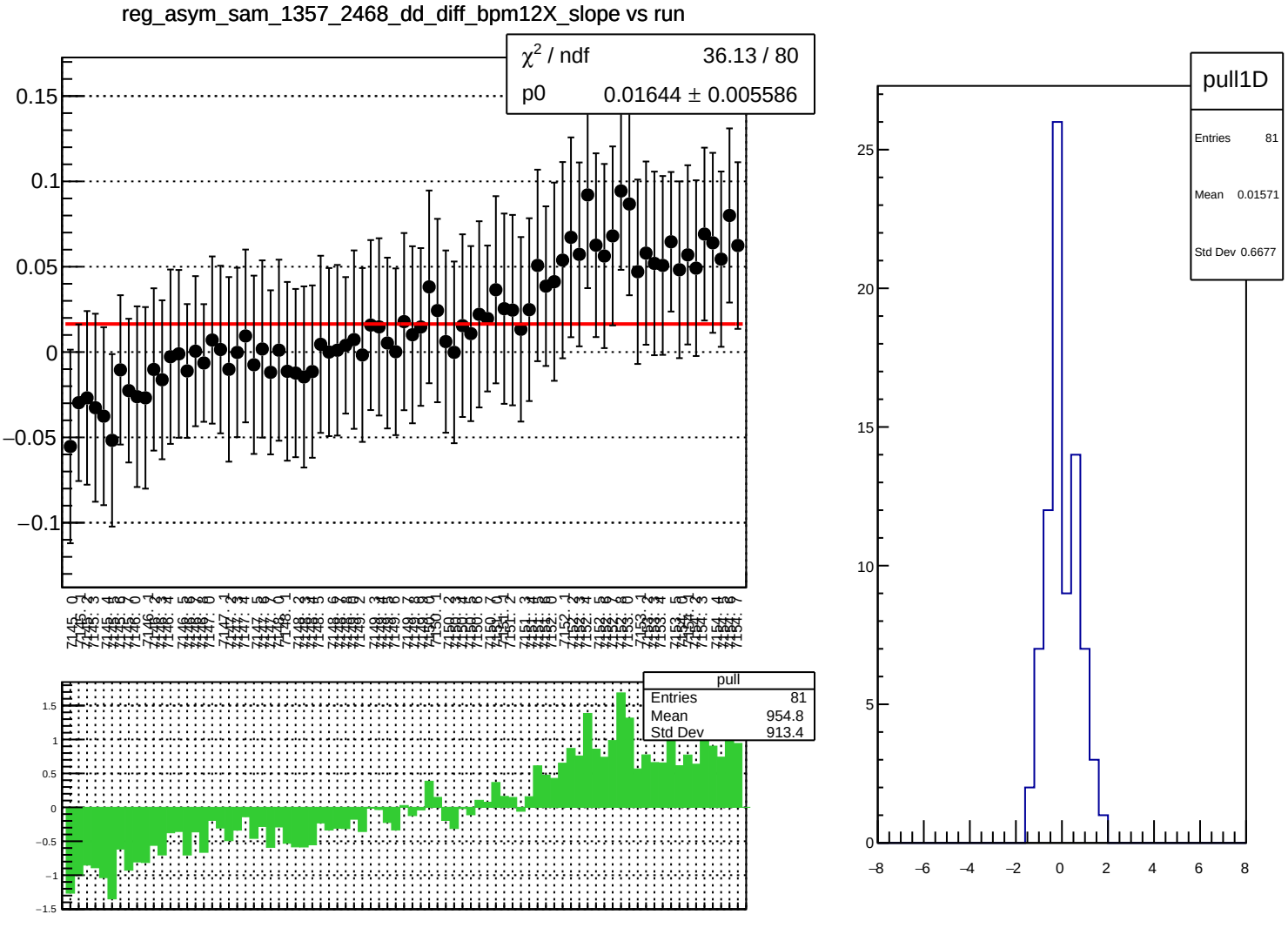

pull1D
Entries 81
Mean −0.09807
Std Dev 1.694

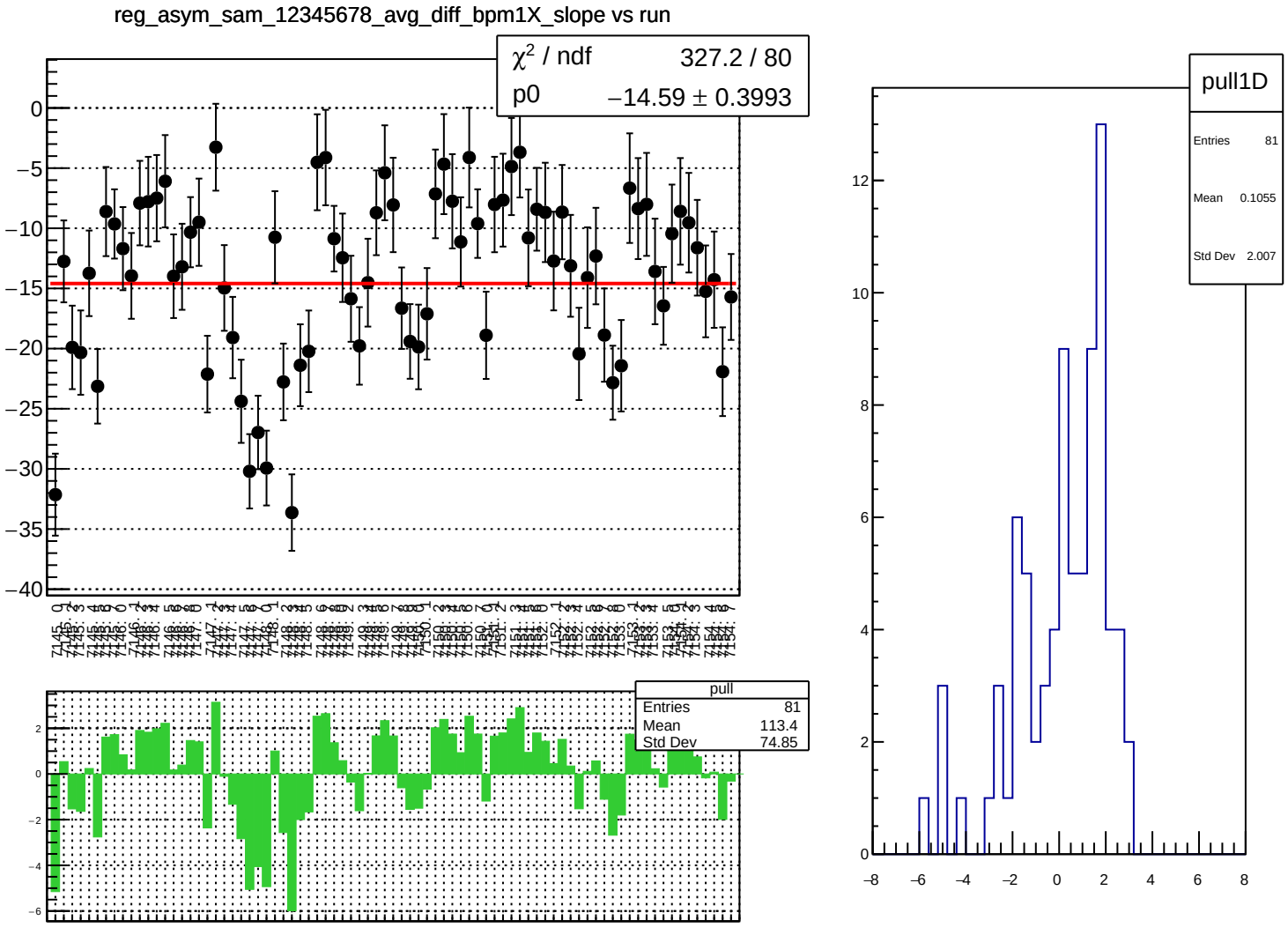

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.48 / 80
p0 −0.09742 ± 0.1159
pull
Entries 81
Mean −60.51
Std Dev 40.92

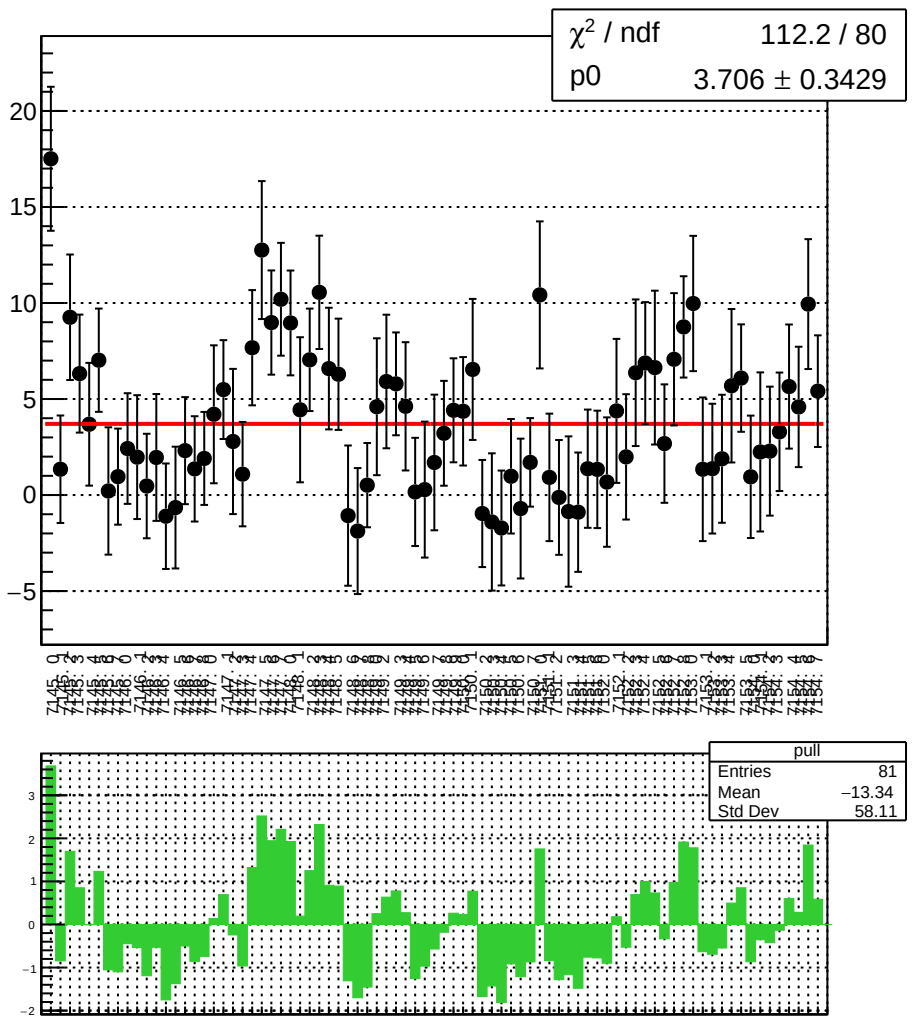

pull1D
Entries 81
Mean −0.009923
Std Dev 1.015

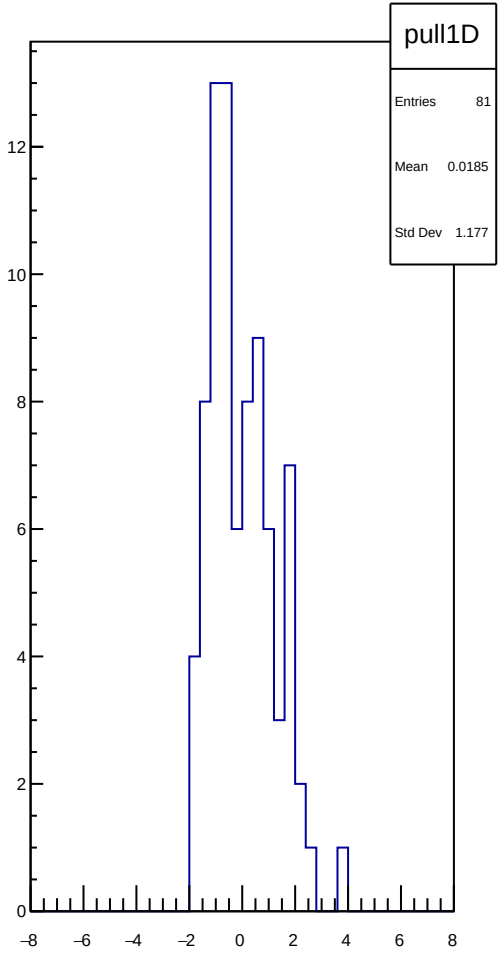

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 197.5 / 80
p0 11.34 ± 0.1383
pull
Entries 81
Mean 107.4
Std Dev 65.22
pull1D
Entries 81
Mean 0.09432
Std Dev 1.559

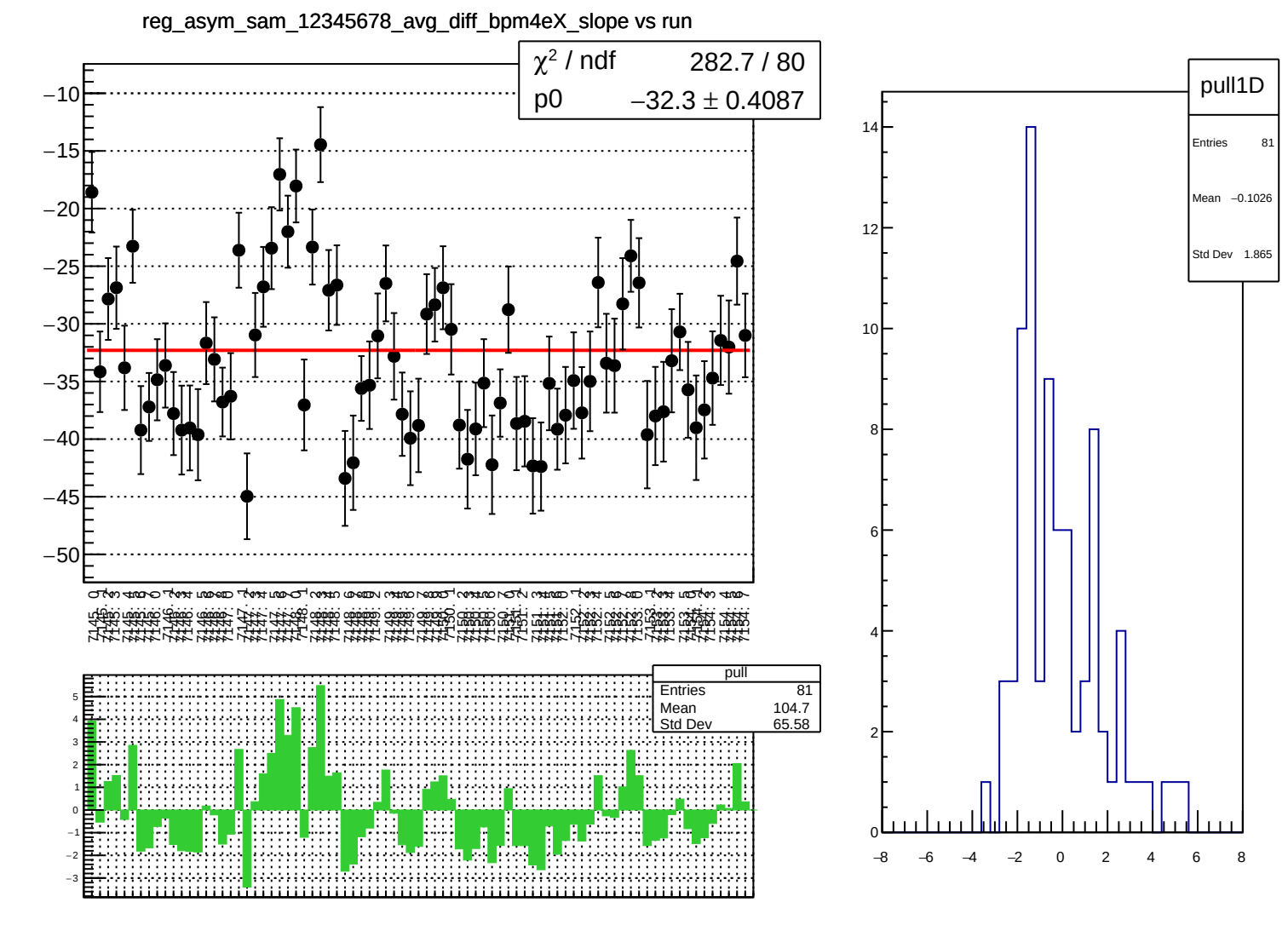

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.02 / 80
p0 −6.37 ± 0.1268
pull
Entries 81
Mean 311.3
Std Dev 249.3
pull1D
Entries 81
Mean 0.01033
Std Dev 0.9876

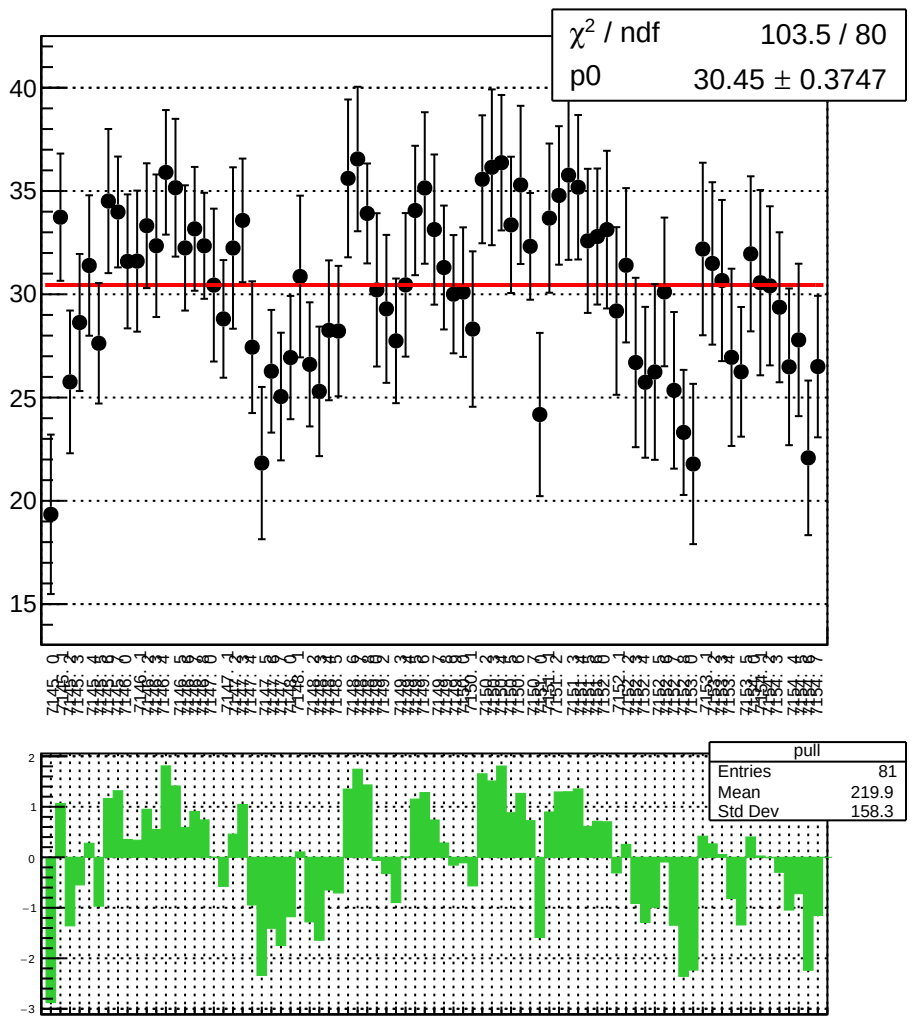

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 36.13 / 80
p0 0.01644 ± 0.005586
pull
Entries 81
Mean 954.8
Std Dev 913.4
pull1D
Entries 81
Mean 0.01571
Std Dev 0.6677

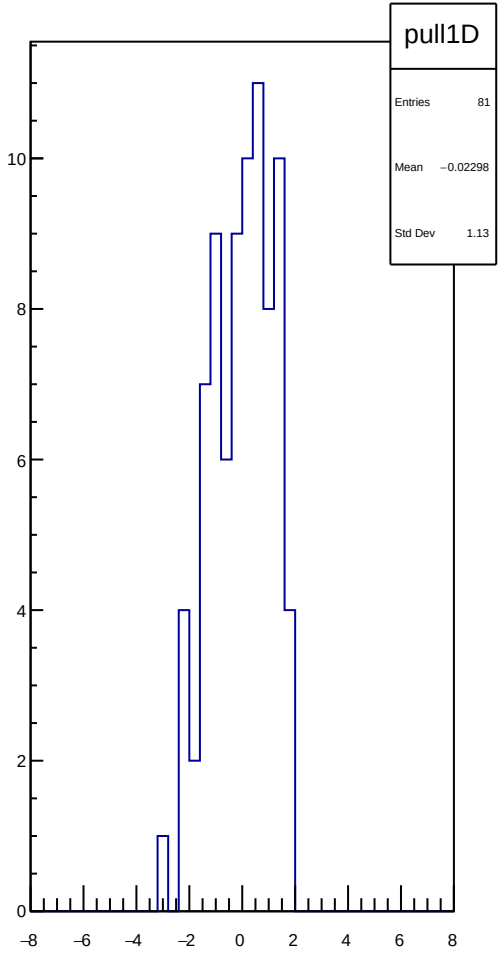

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 327.2 / 80
p0 −14.59 ± 0.3993
pull
Entries 81
Mean 113.4
Std Dev 74.85
pull1D
Entries 81
Mean 0.1055
Std Dev 2.007

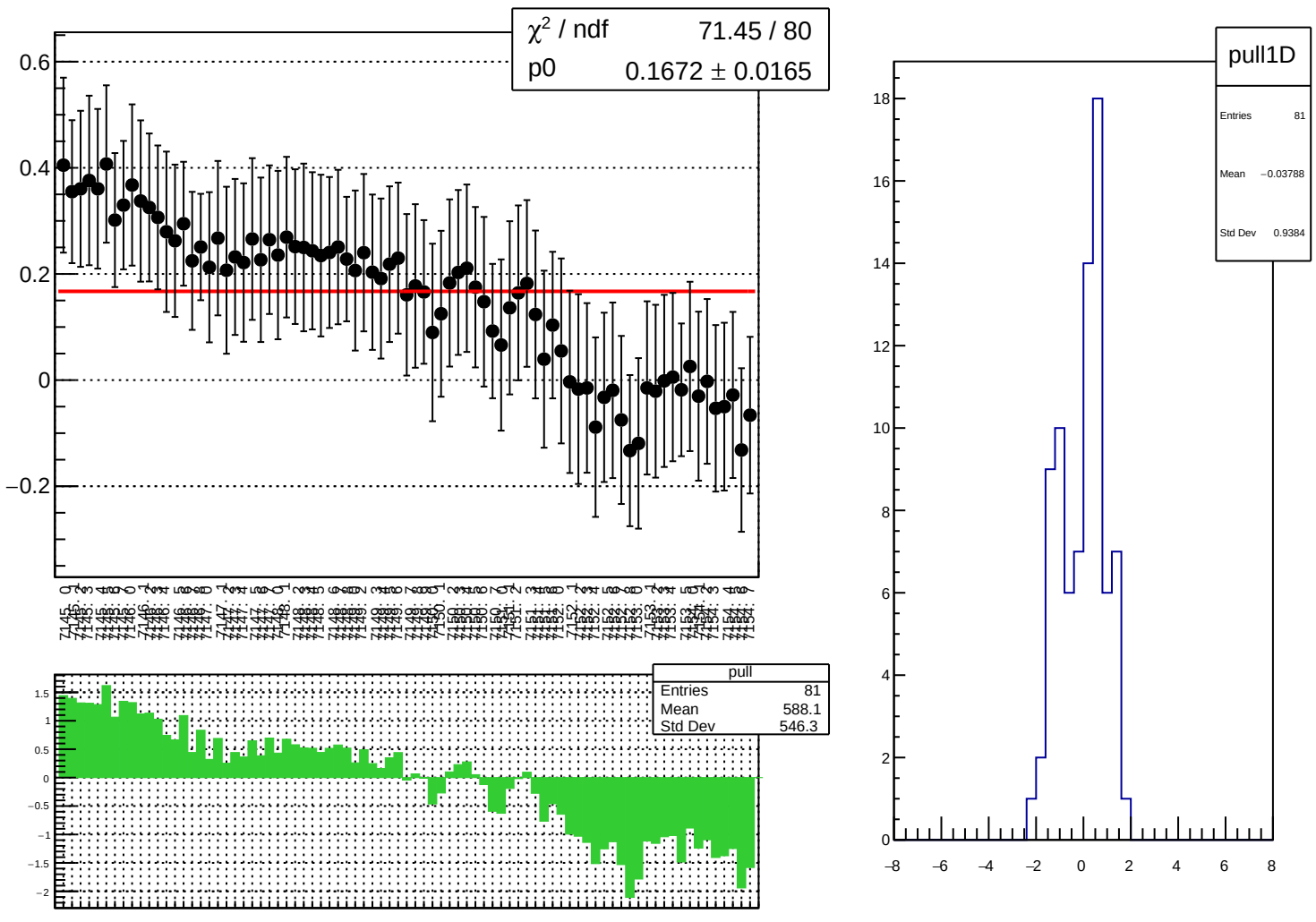

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 112.2 / 80
p0 3.706 ± 0.3429
pull
Entries 81
Mean −13.34
Std Dev 58.11

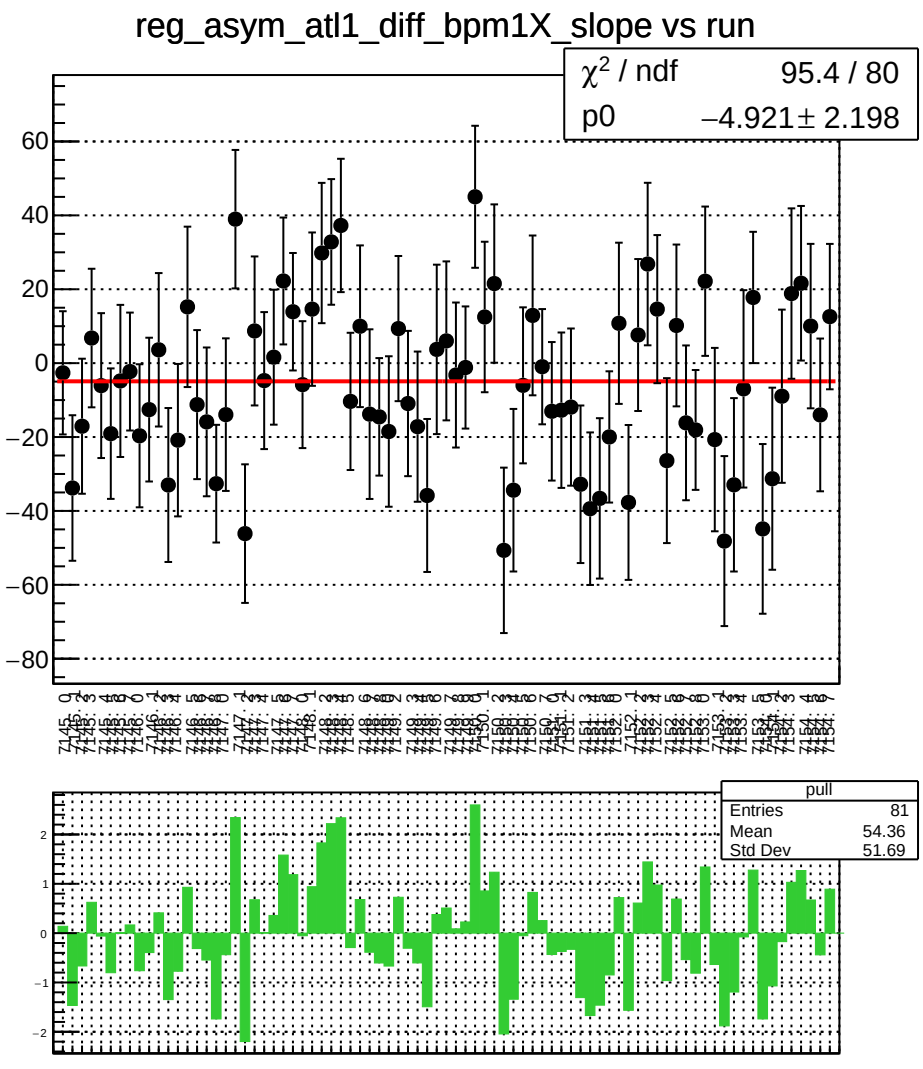

pull1D
Entries 81
Mean 0.0185
Std Dev 1.177

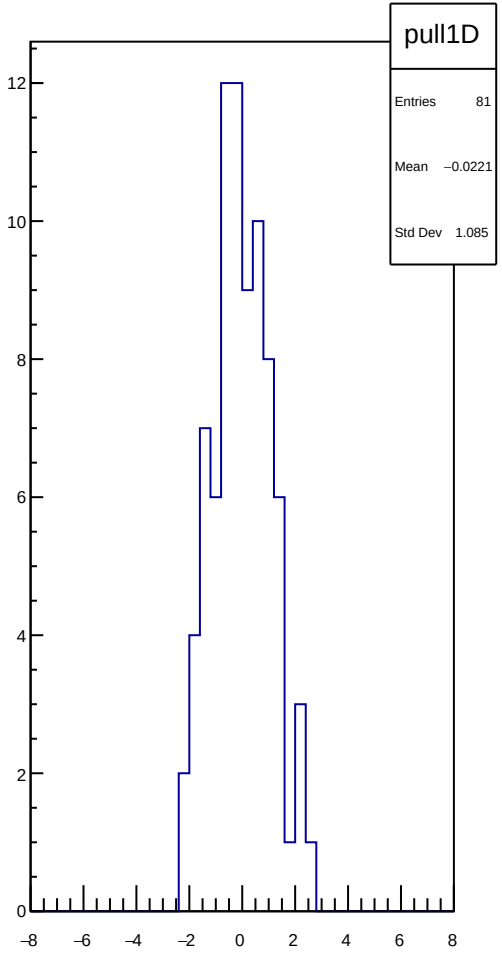

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 282.7 / 80
p0 −32.3 ± 0.4087
pull
Entries 81
Mean 104.7
Std Dev 65.58
pull1D
Entries 81
Mean −0.1026
Std Dev 1.865

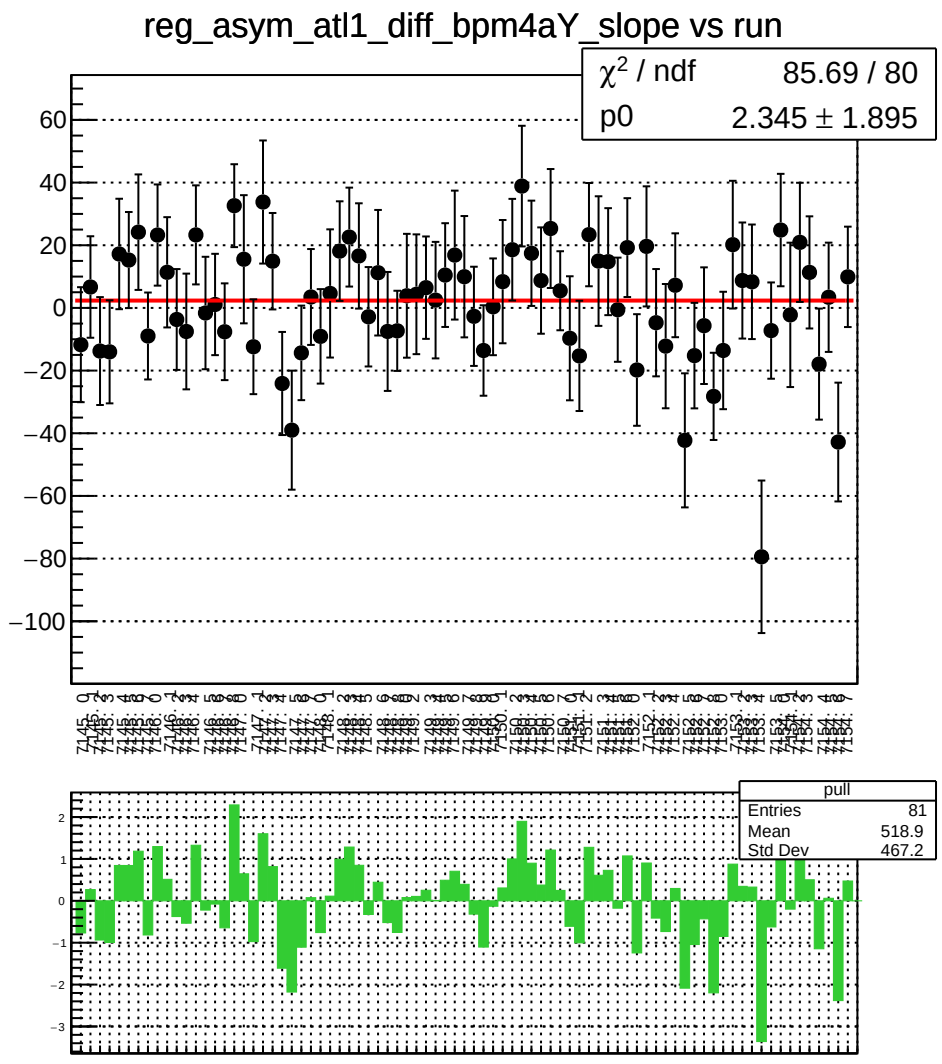

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 103.5 / 80
p0 30.45 ± 0.3747
pull
Entries 81
Mean 219.9
Std Dev 158.3

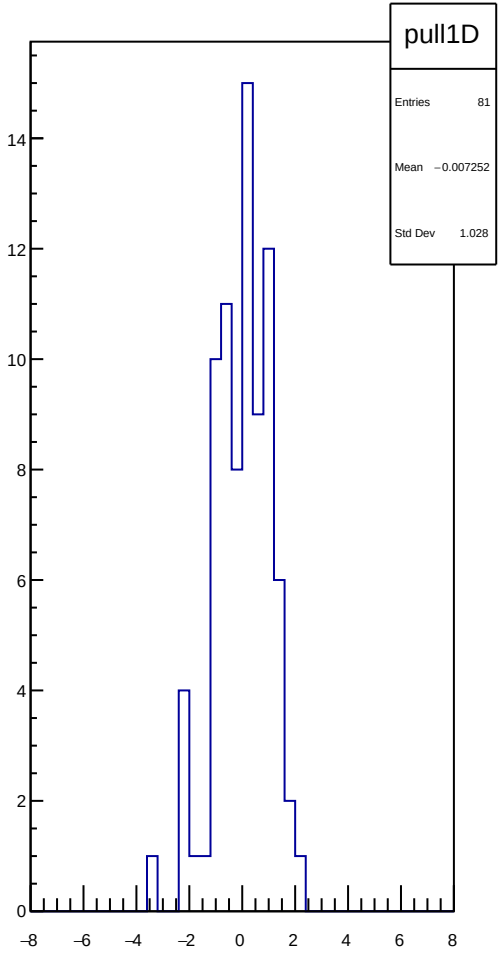

pull1D
Entries 81
Mean −0.02298
Std Dev 1.13

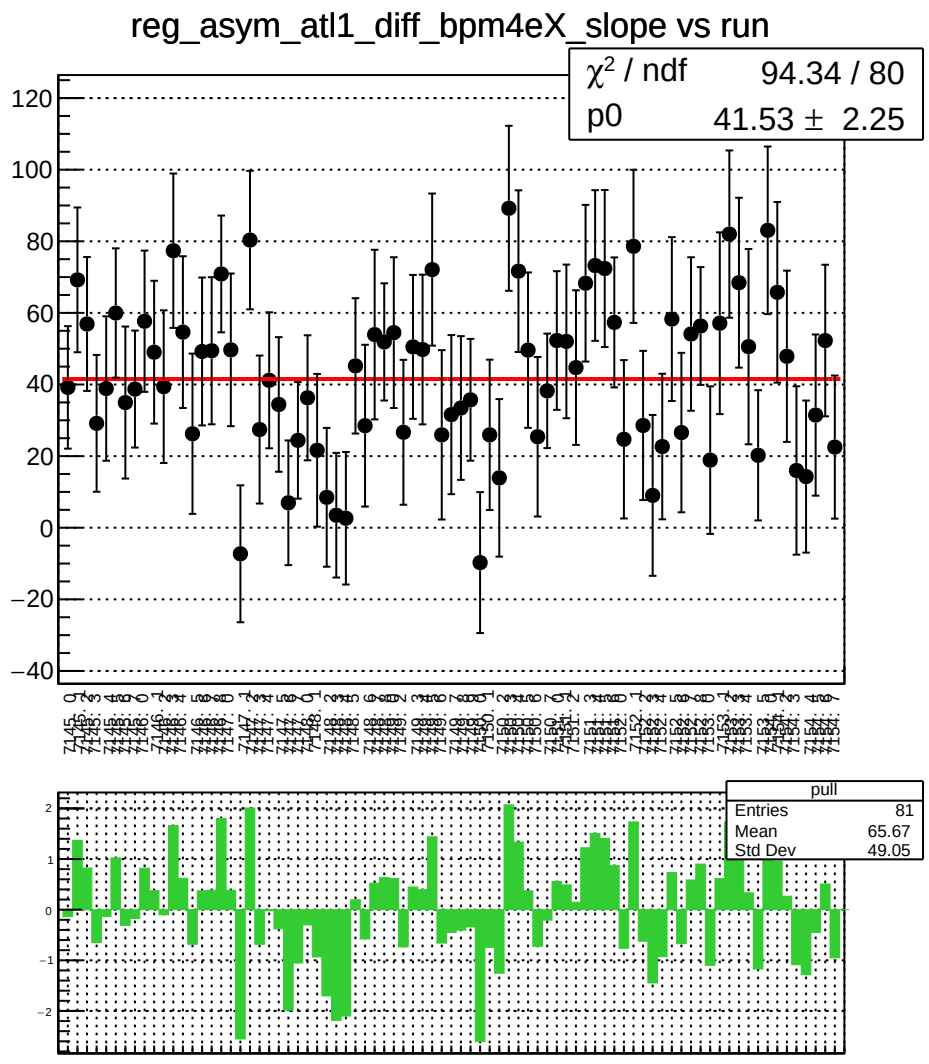

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 71.45 / 80
p0 0.1672 ± 0.0165
pull
Entries 81
Mean 588.1
Std Dev 546.3
pull1D
Entries 81
Mean −0.03788
Std Dev 0.9384

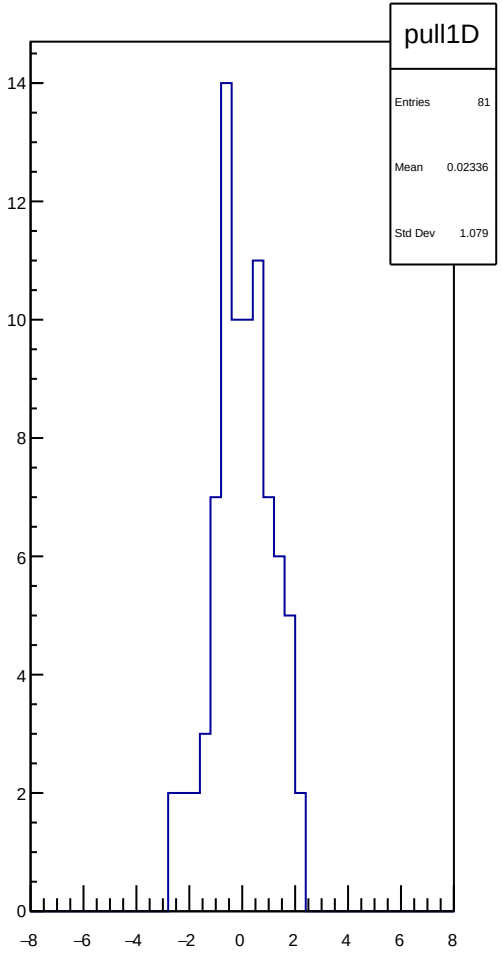

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 95.4 / 80
p0 −4.921 ± 2.198
pull
Entries 81
Mean 54.36
Std Dev 51.69

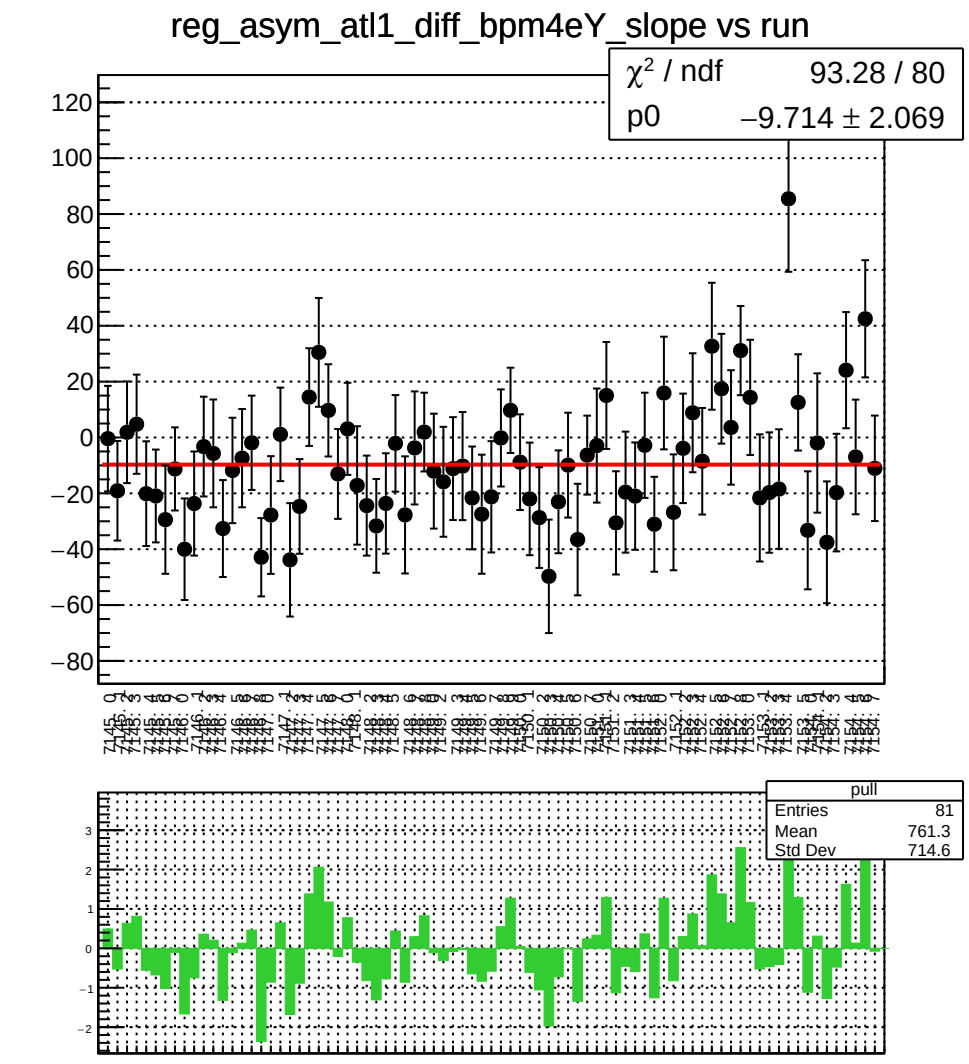

pull1D
Entries 81
Mean −0.0221
Std Dev 1.085

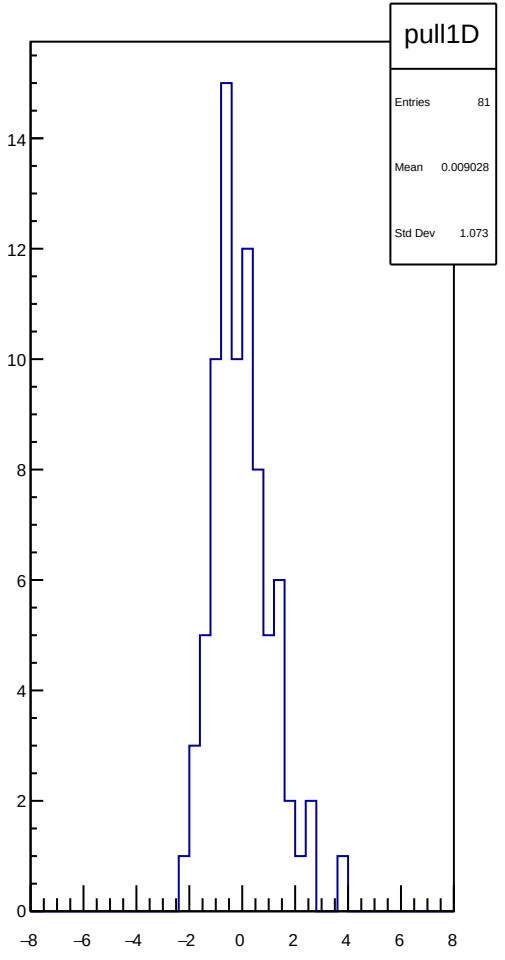

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 85.69 / 80
p0 2.345 ± 1.895
pull
Entries 81
Mean 518.9
Std Dev 467.2

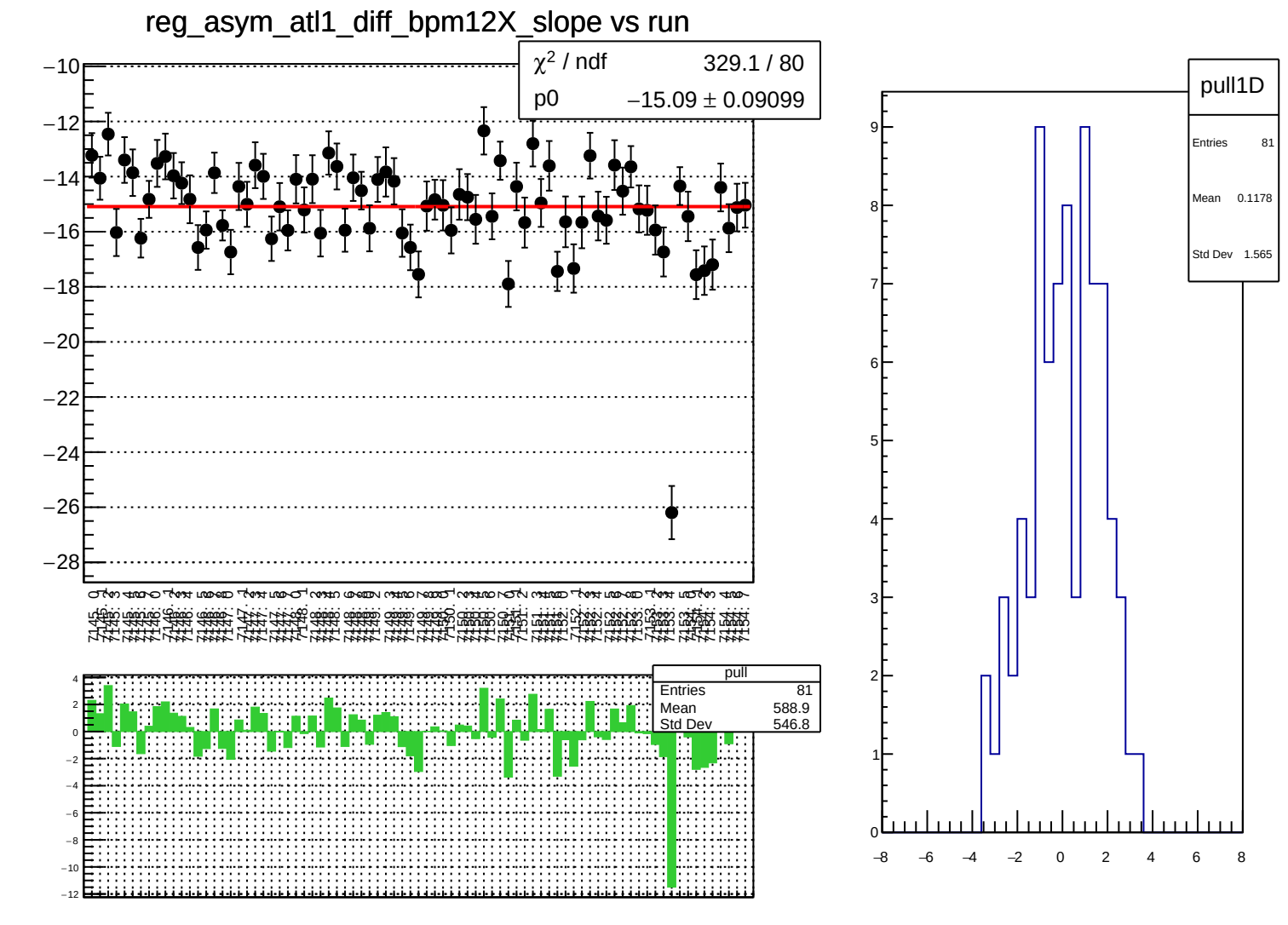

pull1D
Entries 81
Mean −0.007252
Std Dev 1.028

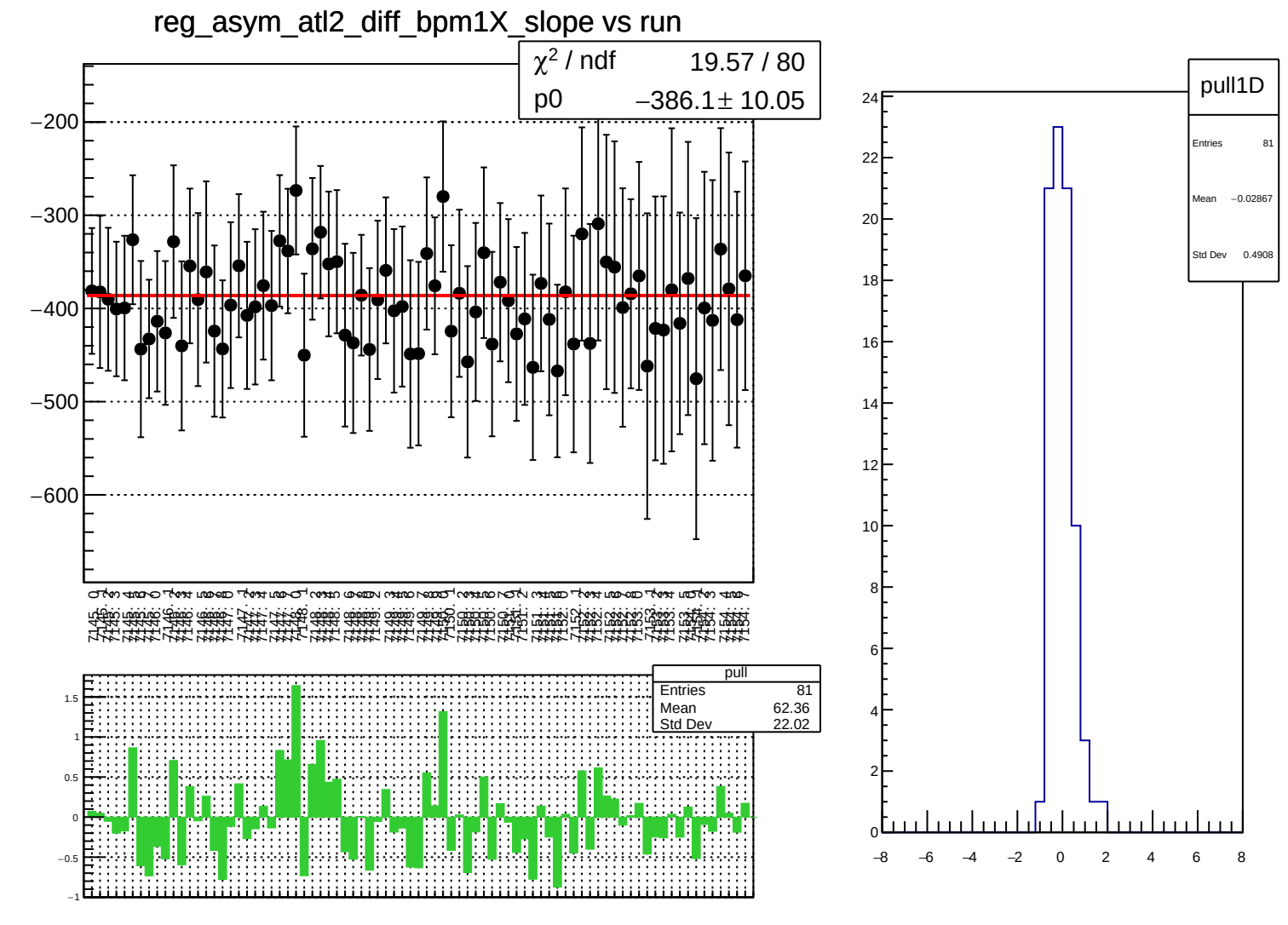

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 94.34 / 80
p0 41.53 ± 2.25
pull
Entries 81
Mean 65.67
Std Dev 49.05

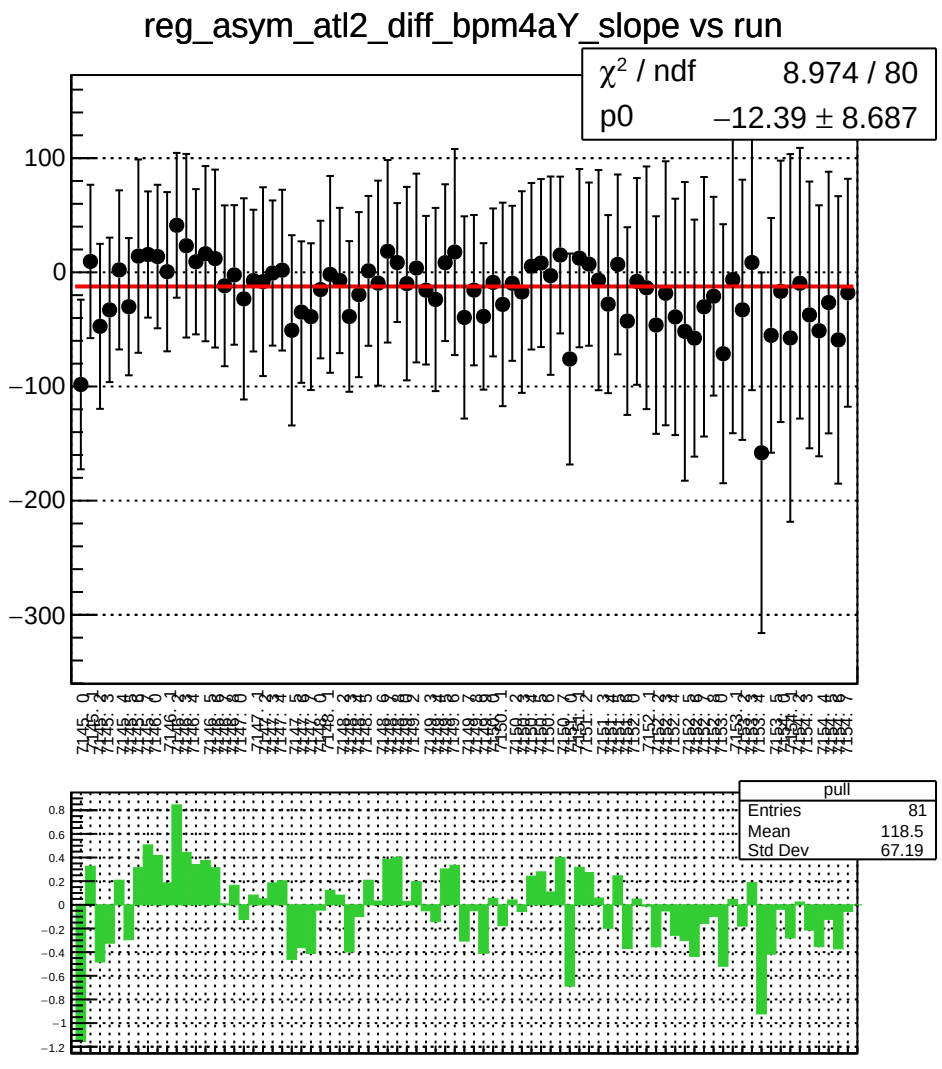

pull1D
Entries 81
Mean 0.02336
Std Dev 1.079

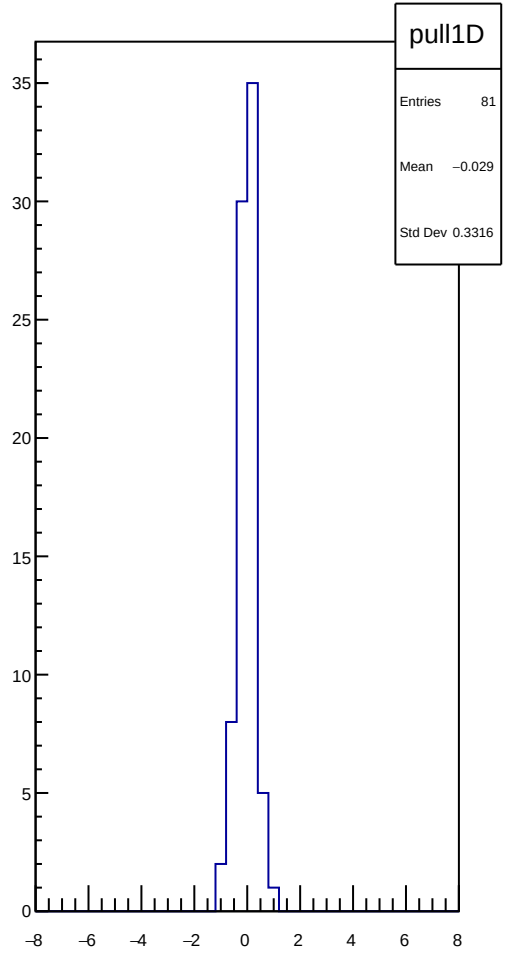

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 93.28 / 80
p0 −9.714 ± 2.069
pull
Entries 81
Mean 761.3
Std Dev 714.6

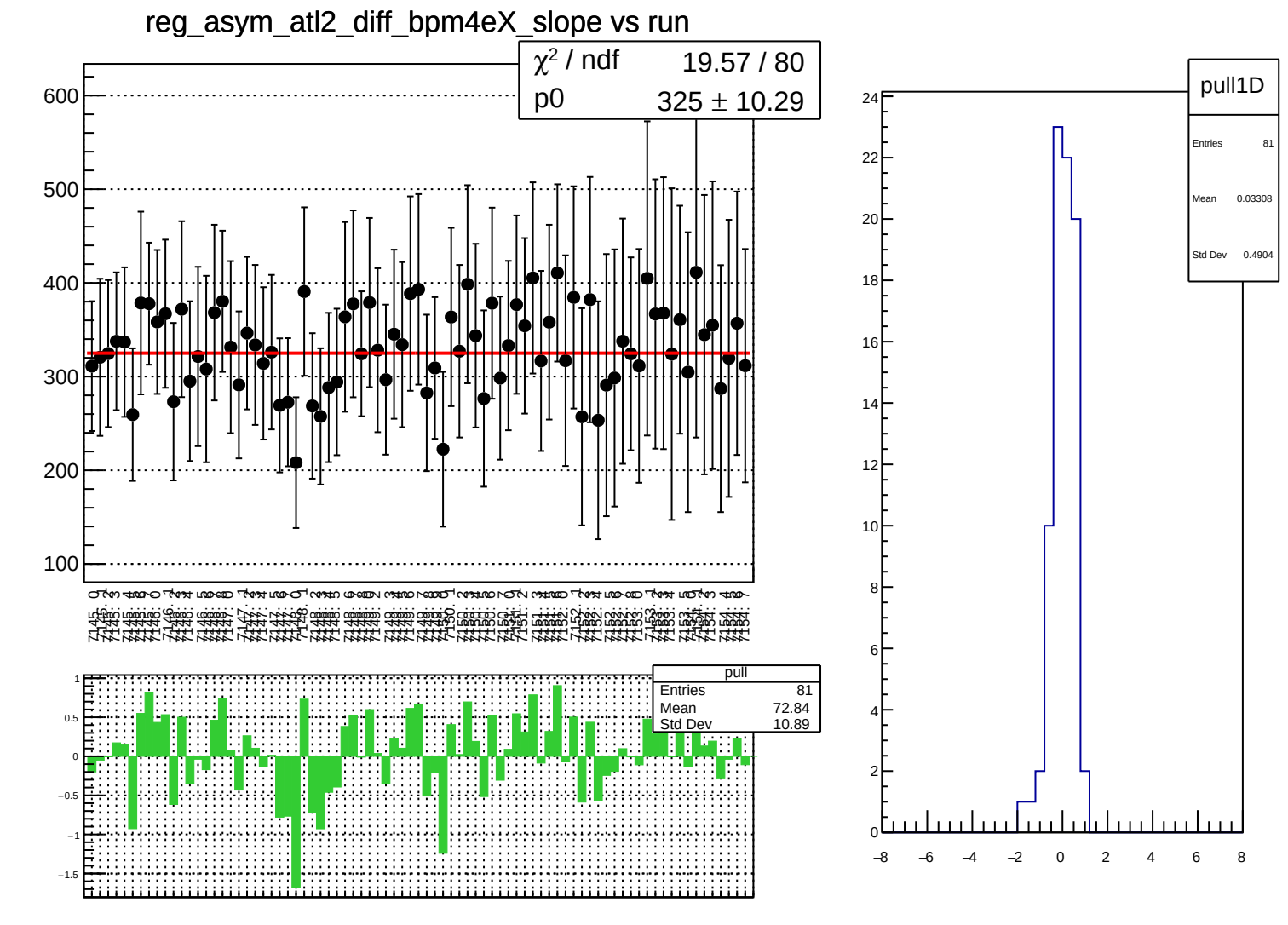

pull1D
Entries 81
Mean 0.009028
Std Dev 1.073

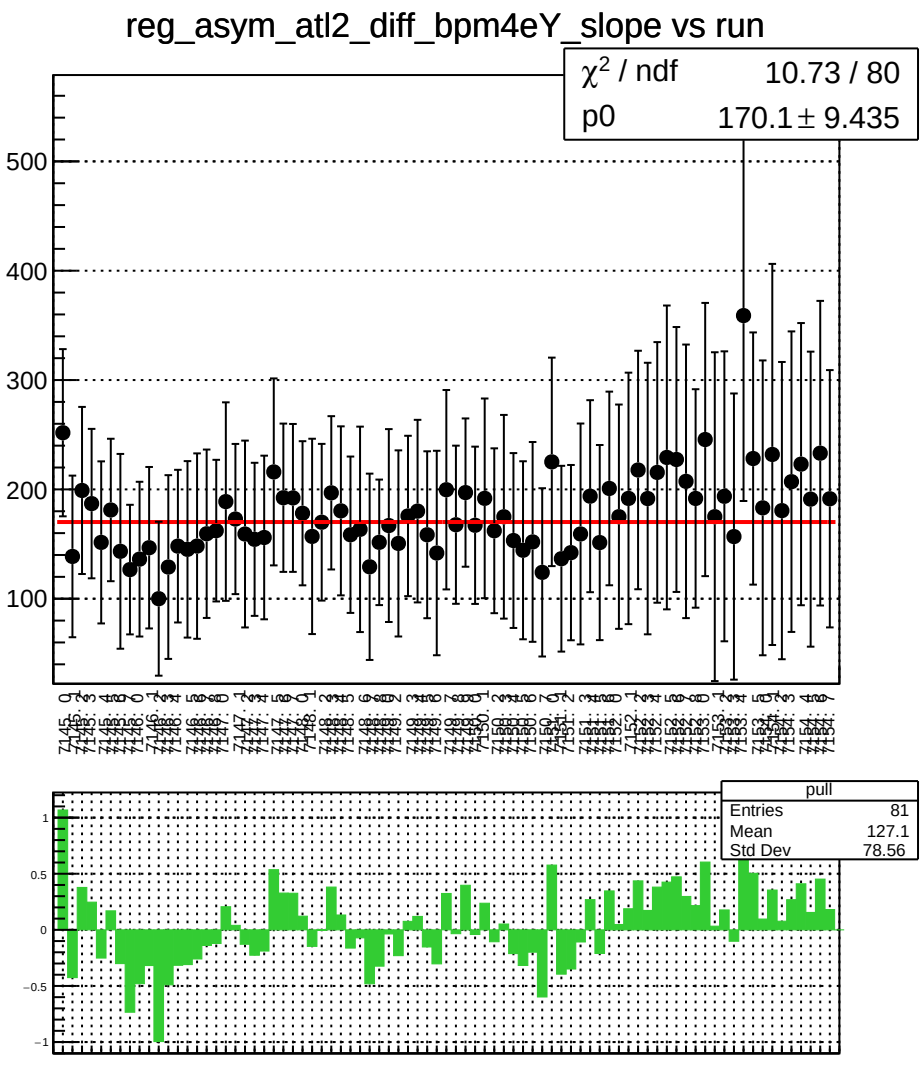

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 329.1 / 80
p0 −15.09 ± 0.09099
pull
Entries 81
Mean 588.9
Std Dev 546.8
pull1D
Entries 81
Mean 0.1178
Std Dev 1.565

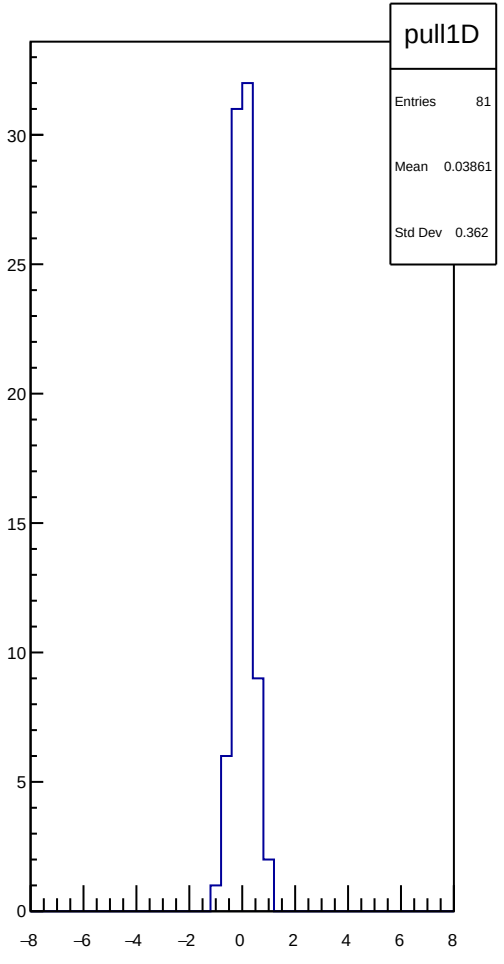

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 19.57 / 80
p0 −386.1 ± 10.05
−200
−300
−400
−500
−600
pull
Entries 81
Mean 62.36
Std Dev 22.02
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean −0.02867
Std Dev 0.4908
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

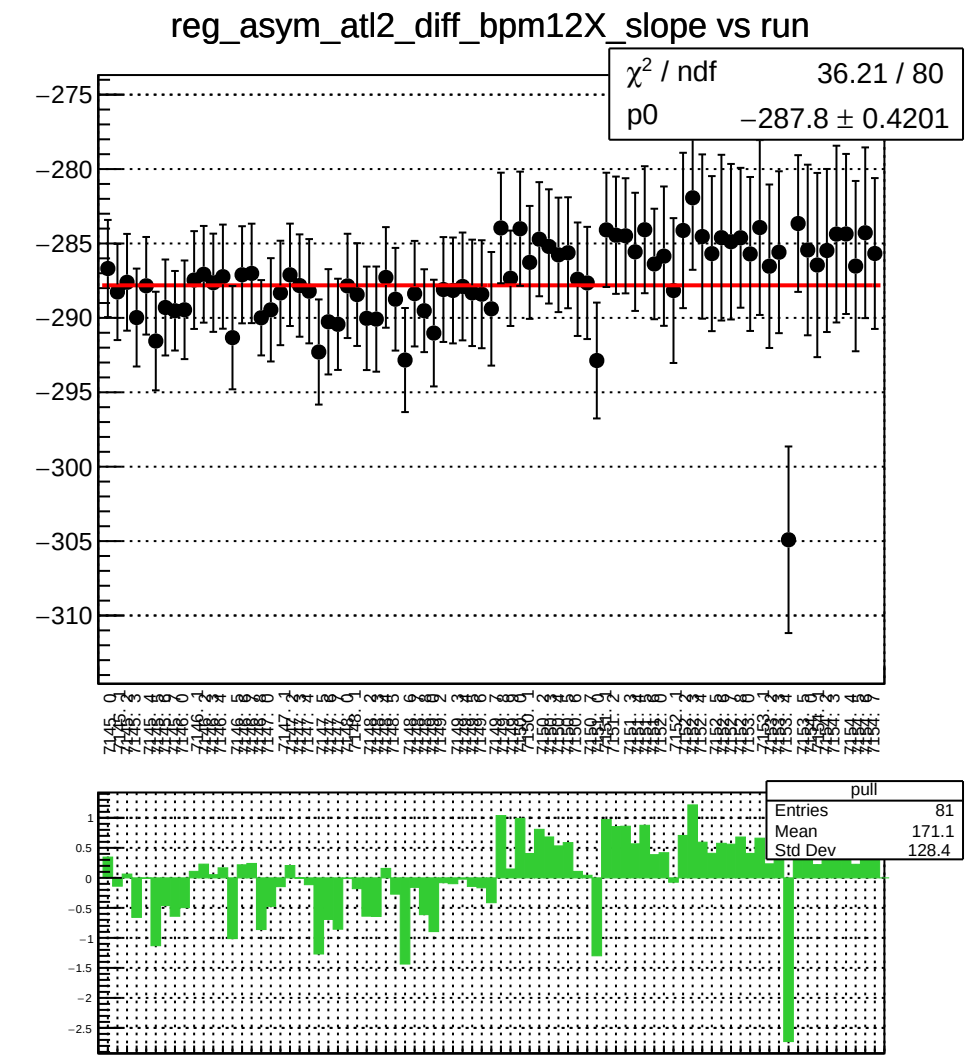

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 8.974 / 80
p0 −12.39 ± 8.687
pull
Entries 81
Mean 118.5
Std Dev 67.19

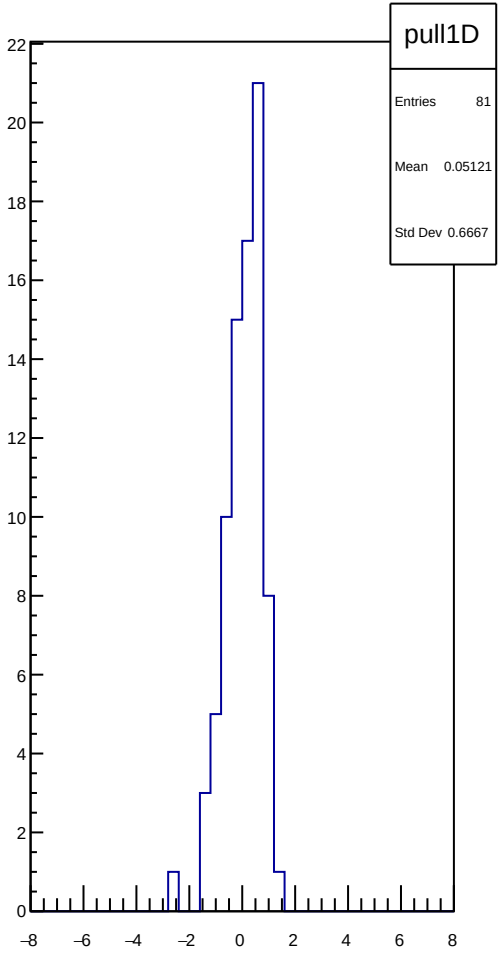

pull1D
Entries 81
Mean −0.029
Std Dev 0.3316

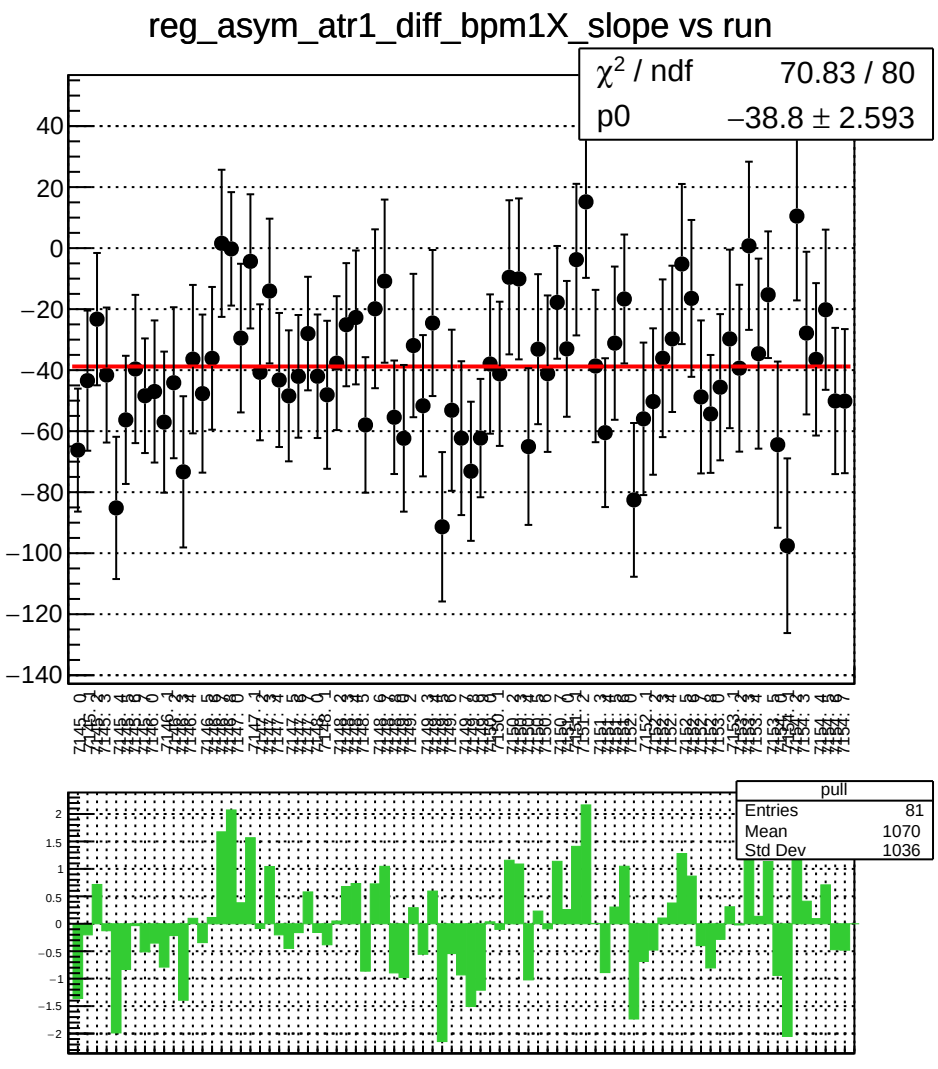

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 19.57 / 80
p0 325 ± 10.29
pull
Entries 81
Mean 72.84
Std Dev 10.89
pull1D
Entries 81
Mean 0.03308
Std Dev 0.4904

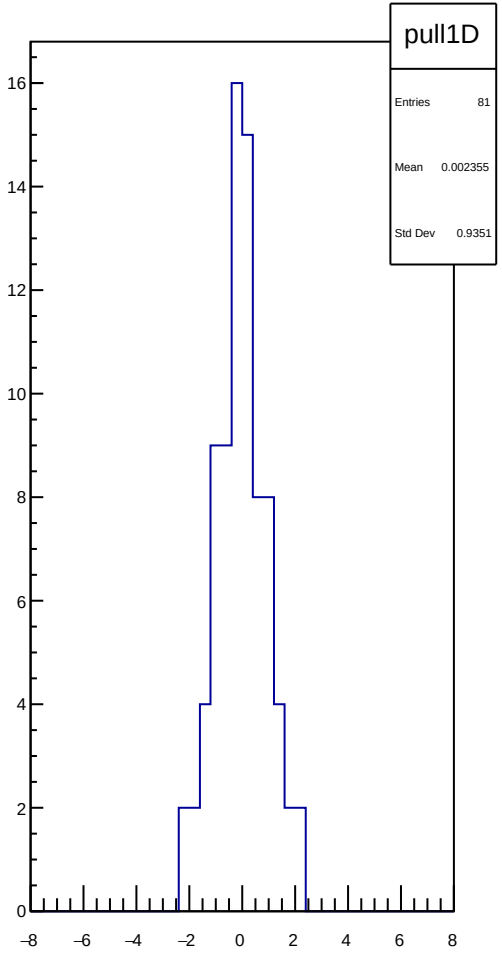

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 10.73 / 80
p0 170.1 ± 9.435
pull
Entries 81
Mean 127.1
Std Dev 78.56

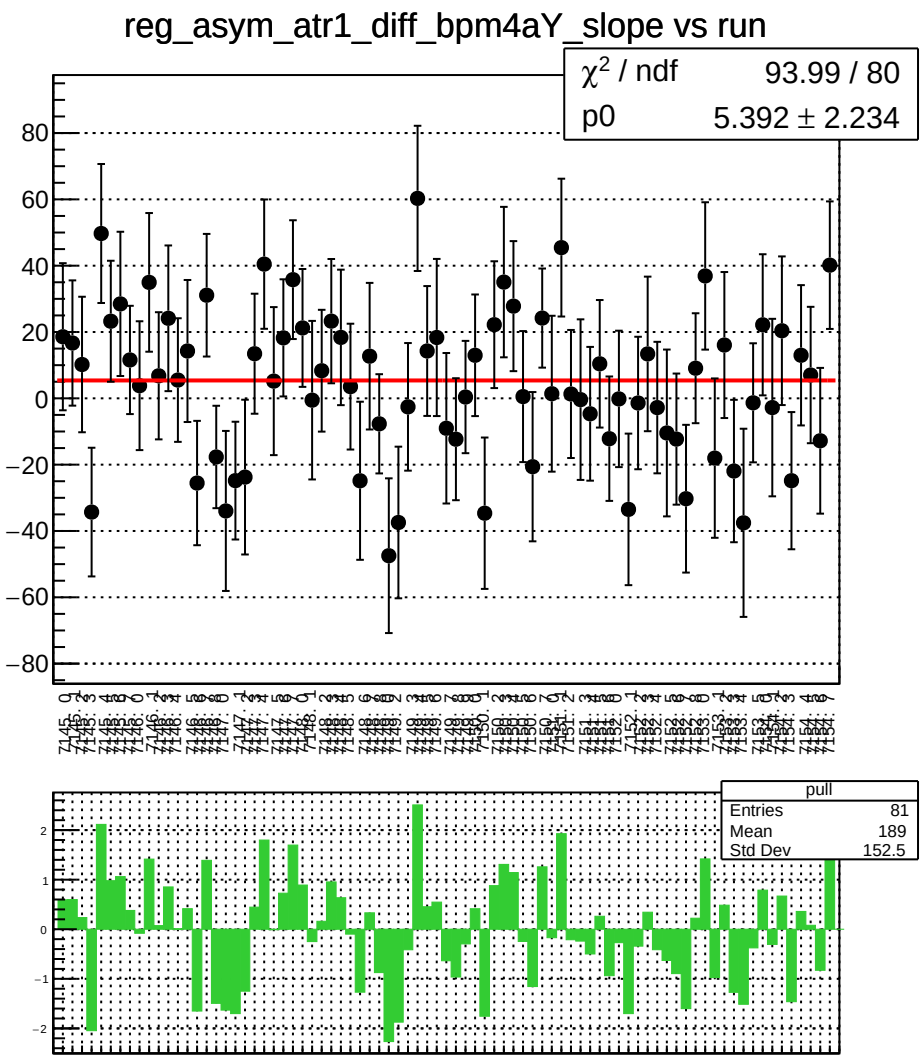

pull1D
Entries 81
Mean 0.03861
Std Dev 0.362

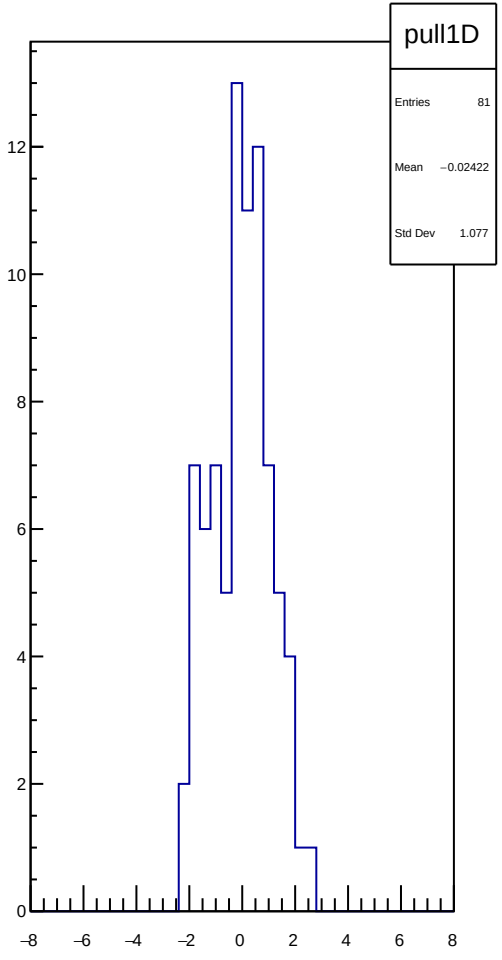

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 36.21 / 80
p0 −287.8 ± 0.4201
pull
Entries 81
Mean 171.1
Std Dev 128.4

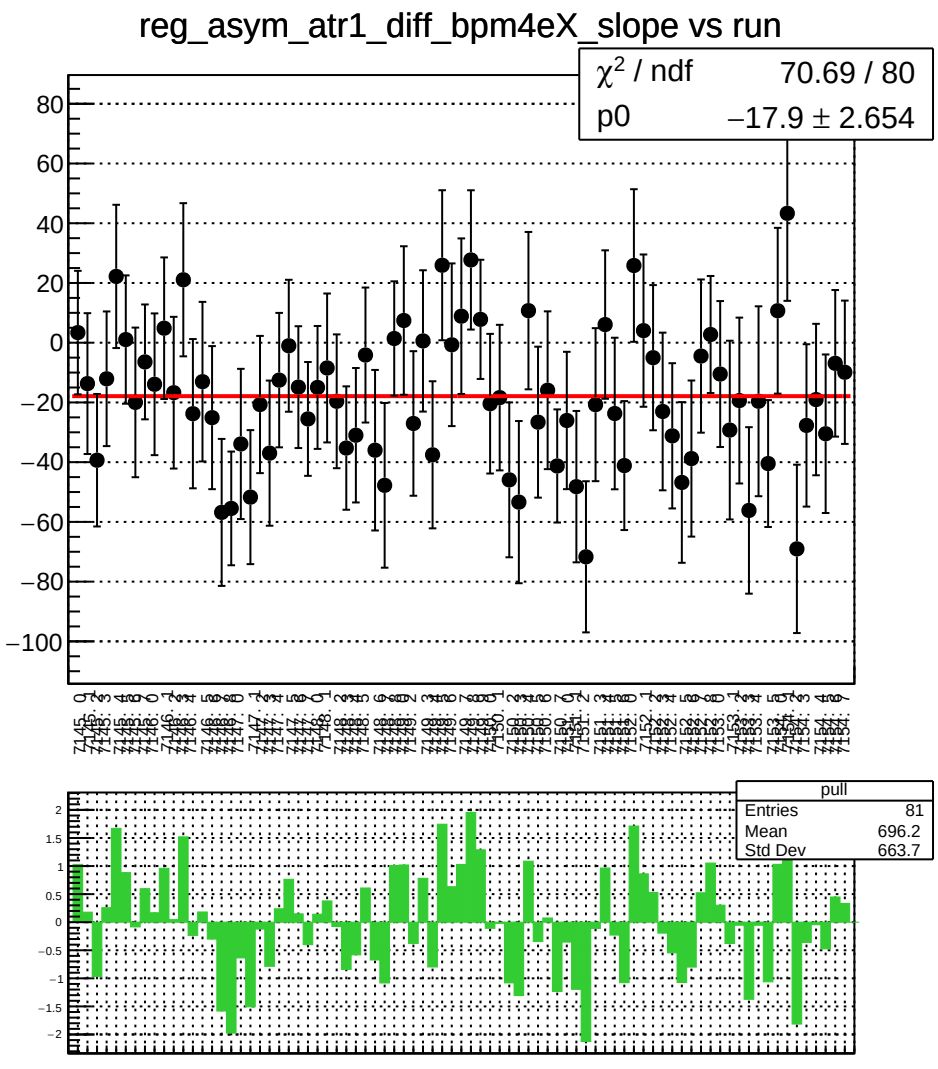

pull1D
Entries 81
Mean 0.05121
Std Dev 0.6667

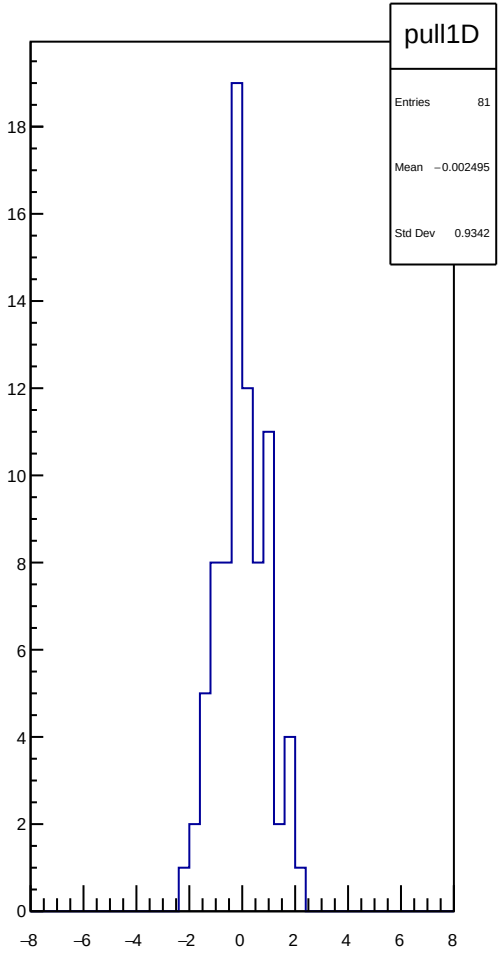

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 70.83 / 80
p0 −38.8 ± 2.593
pull
Entries 81
Mean 1070
Std Dev 1036

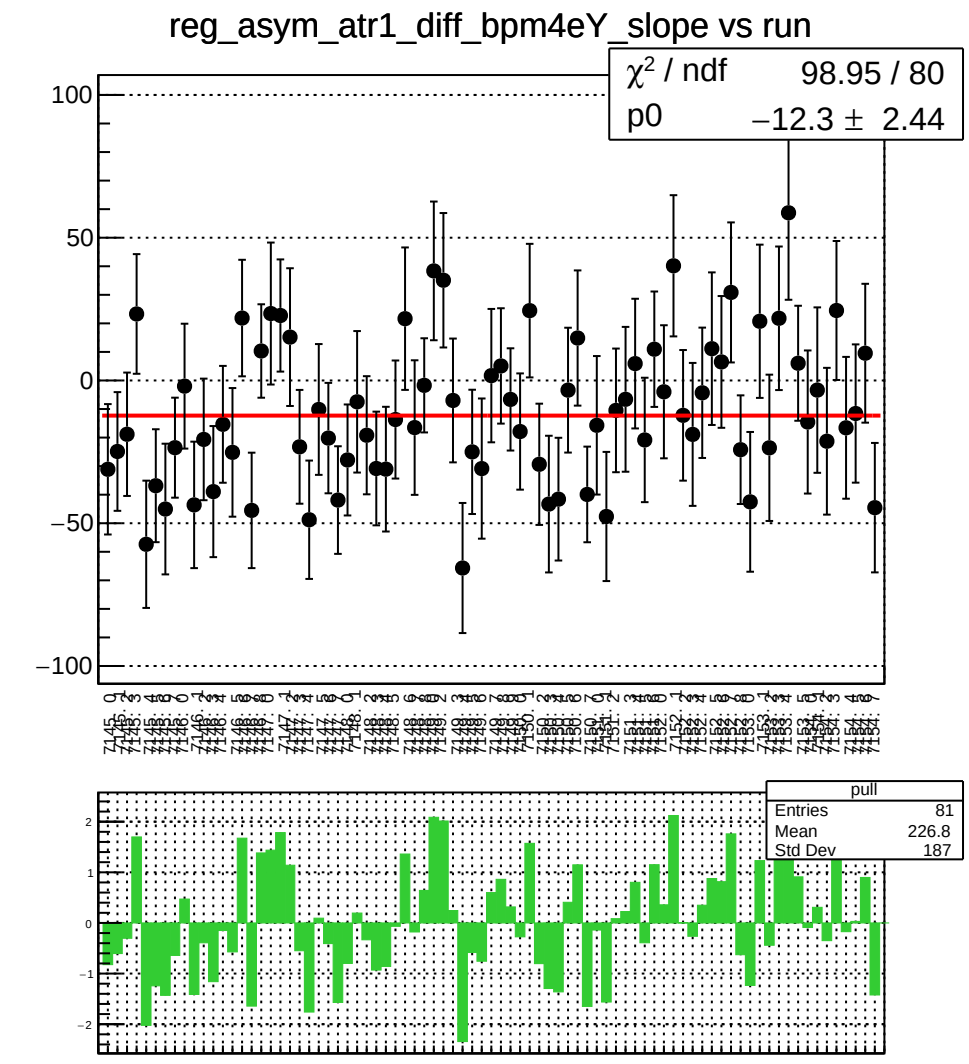

pull1D
Entries 81
Mean 0.002355
Std Dev 0.9351

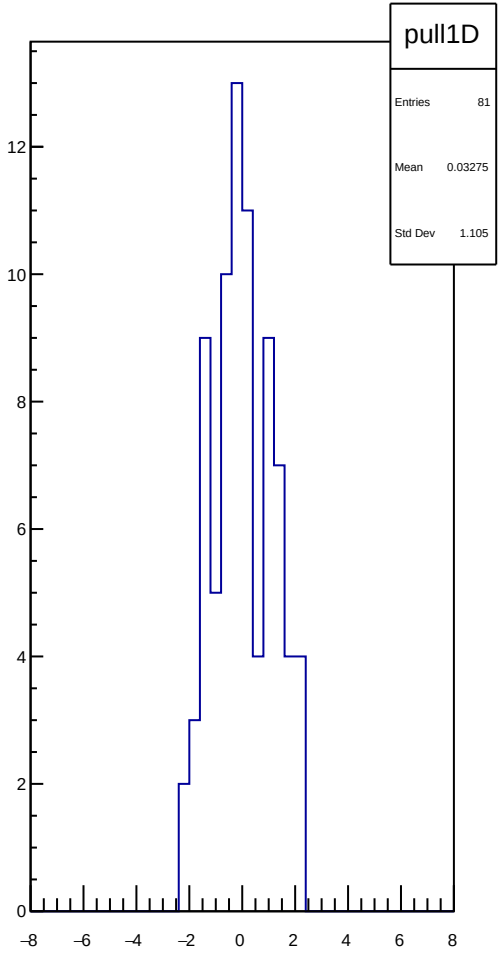

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 93.99 / 80
p0 5.392 ± 2.234
pull
Entries 81
Mean 189
Std Dev 152.5

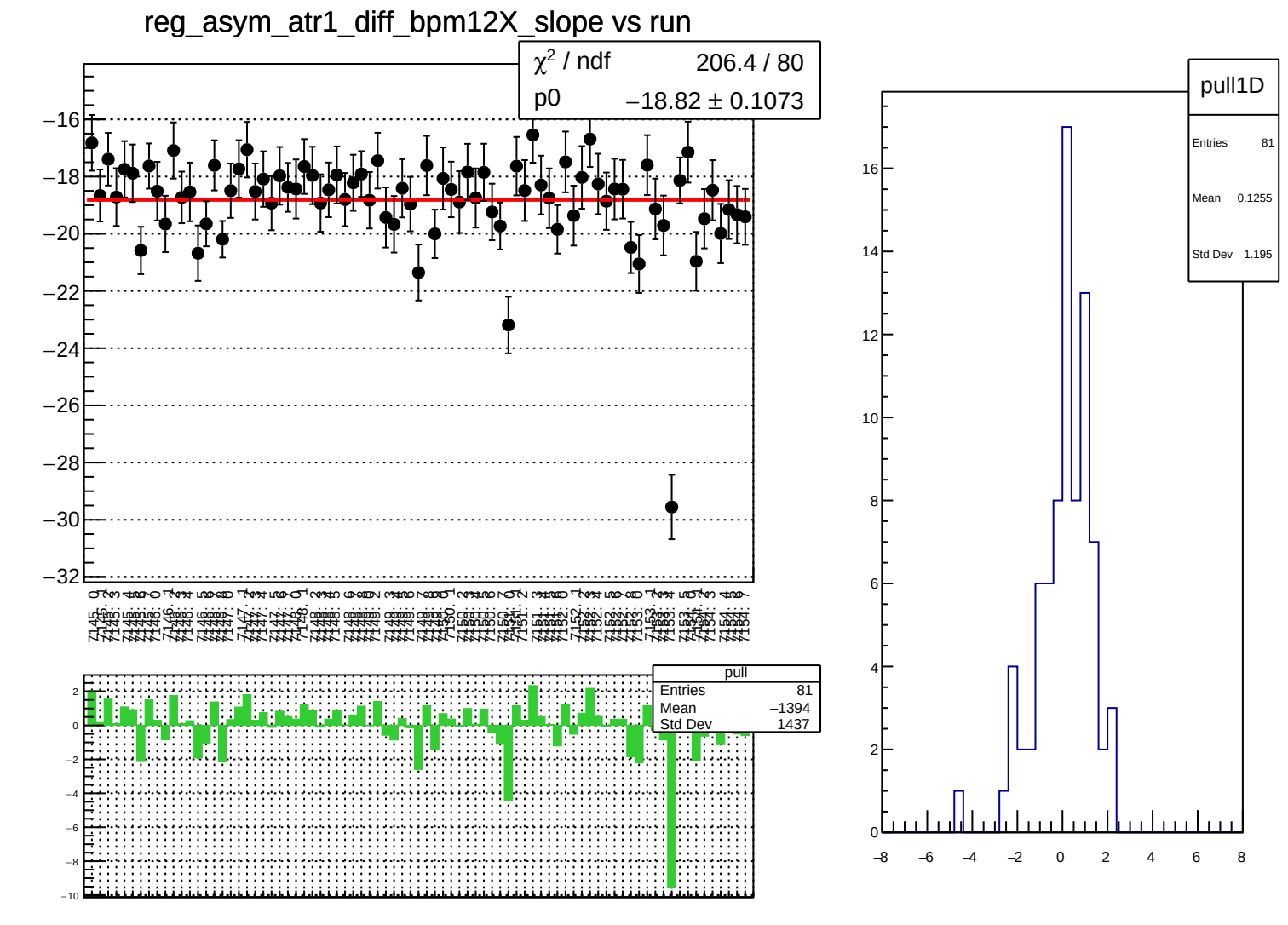

pull1D
Entries 81
Mean −0.02422
Std Dev 1.077

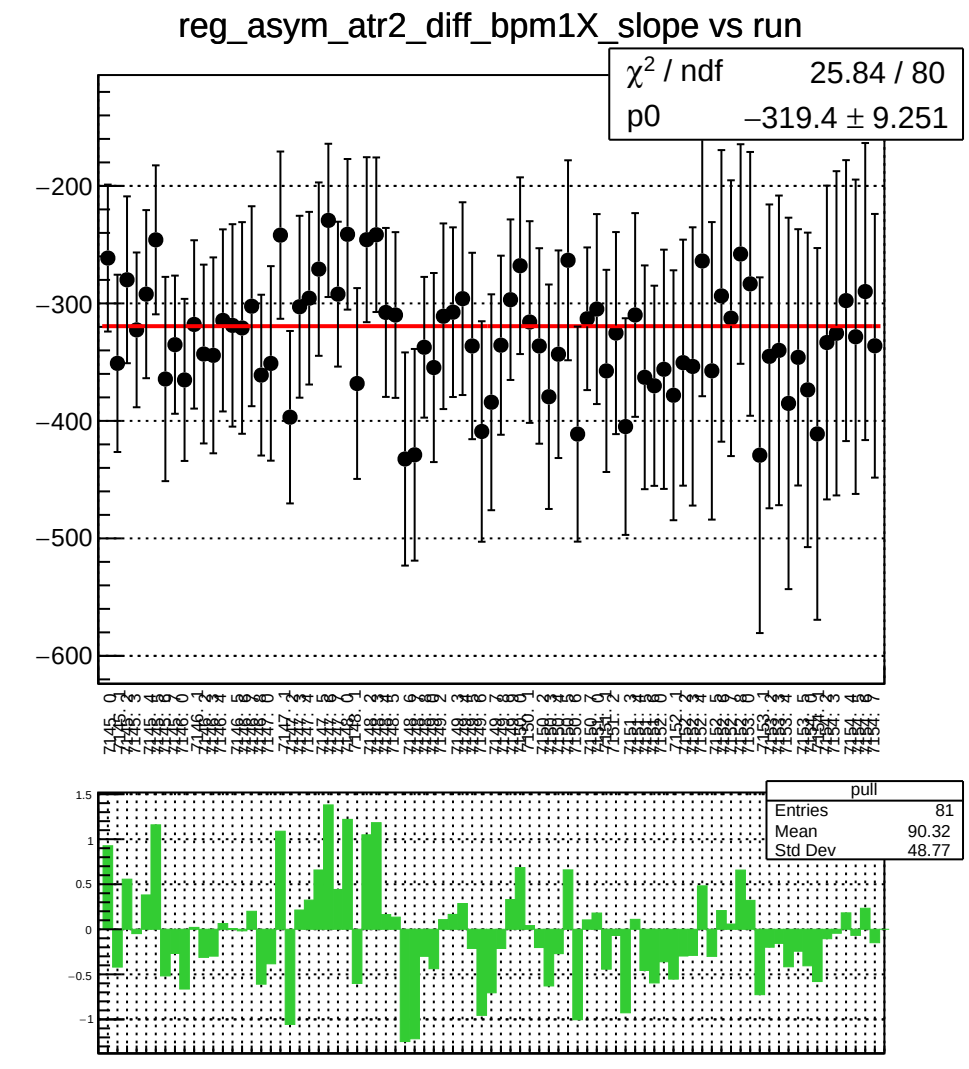

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 70.69 / 80
p0 −17.9 ± 2.654
pull
Entries 81
Mean 696.2
Std Dev 663.7

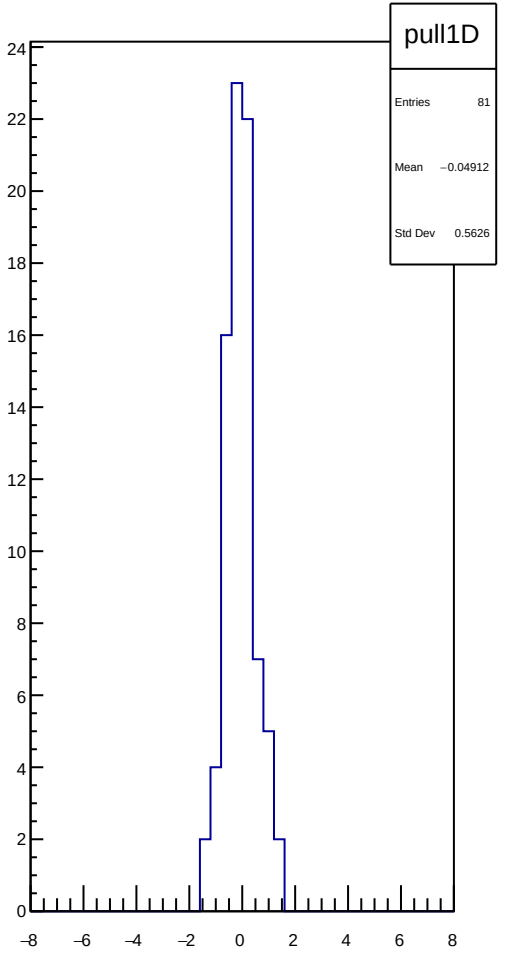

pull1D
Entries 81
Mean −0.002495
Std Dev 0.9342

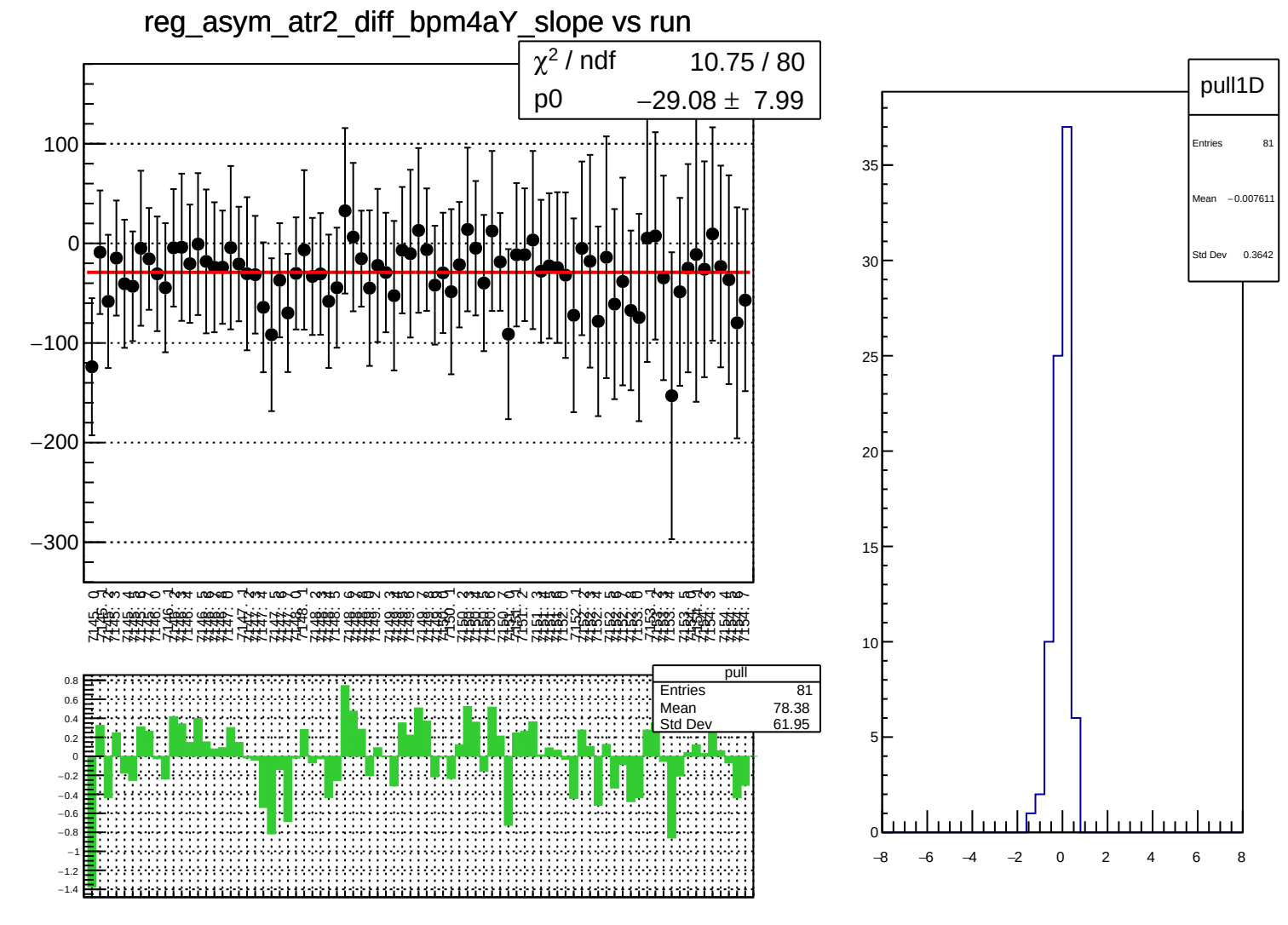

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 98.95 / 80
p0 −12.3 ± 2.44
pull
Entries 81
Mean 226.8
Std Dev 187

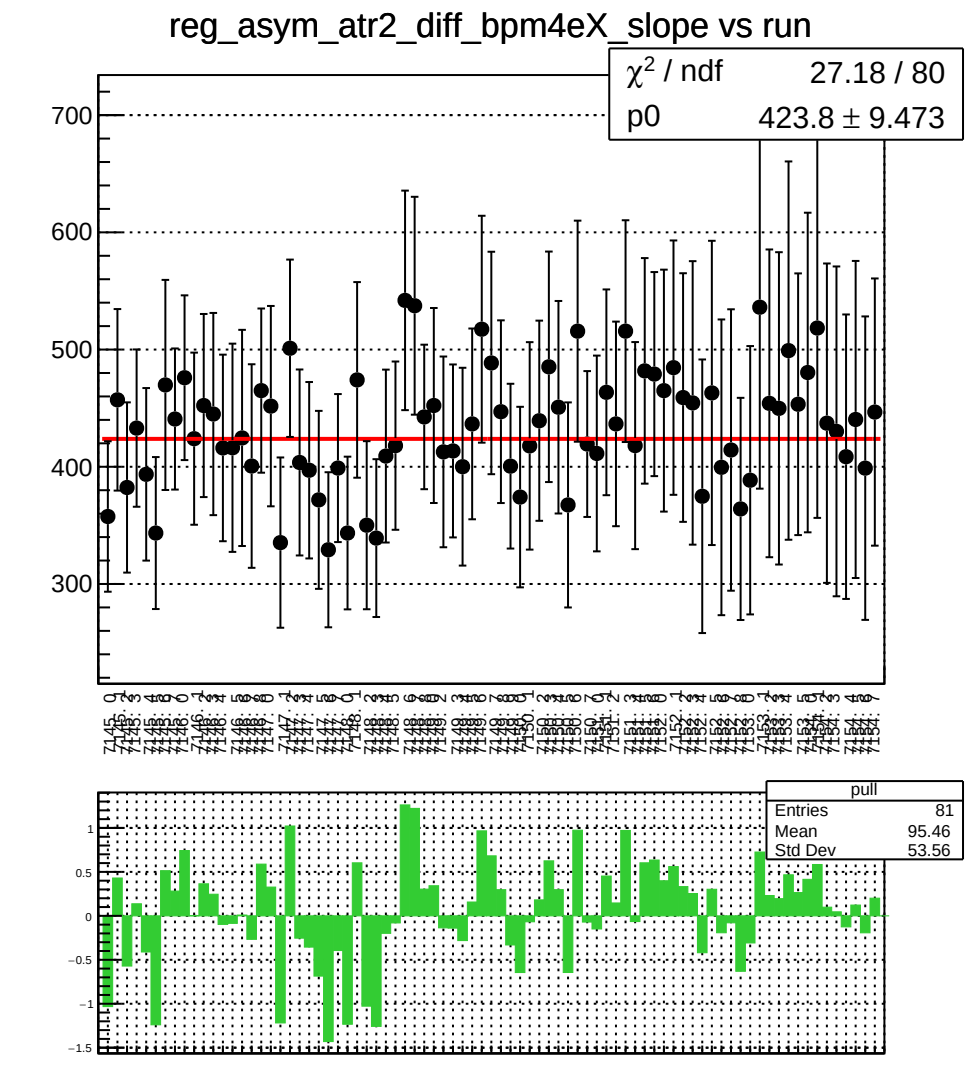

pull1D
Entries 81
Mean 0.03275
Std Dev 1.105

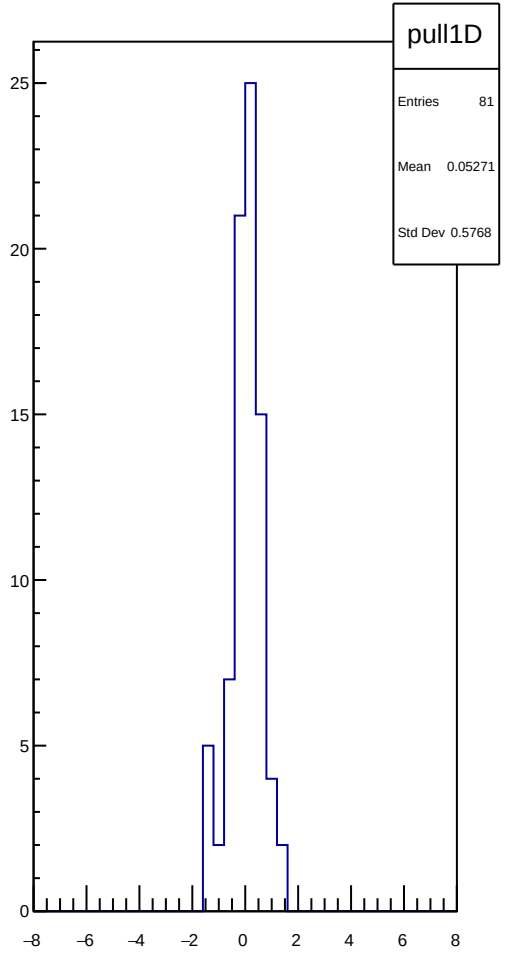

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 206.4 / 80
p0 −18.82 ± 0.1073
pull
Entries 81
Mean −1394
Std Dev 1437
pull1D
Entries 81
Mean 0.1255
Std Dev 1.195

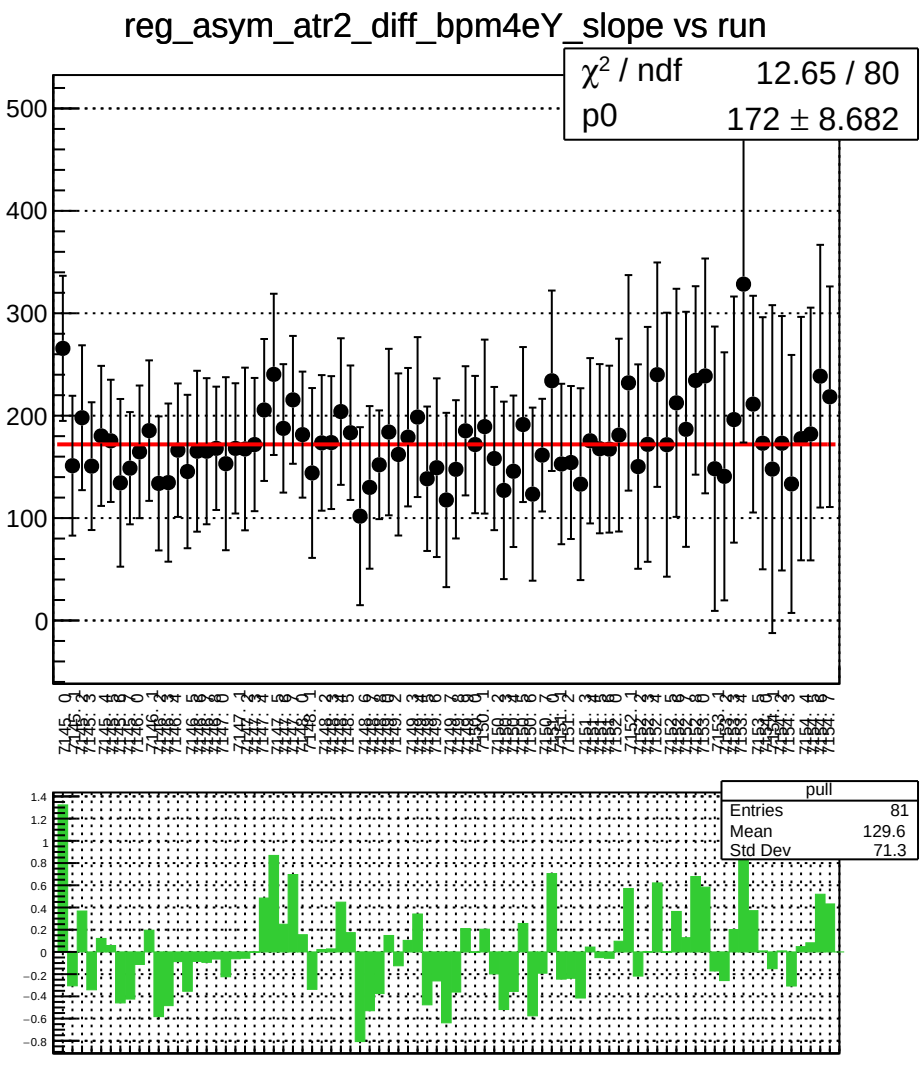

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 25.84 / 80
p0 −319.4 ± 9.251
pull
Entries 81
Mean 90.32
Std Dev 48.77

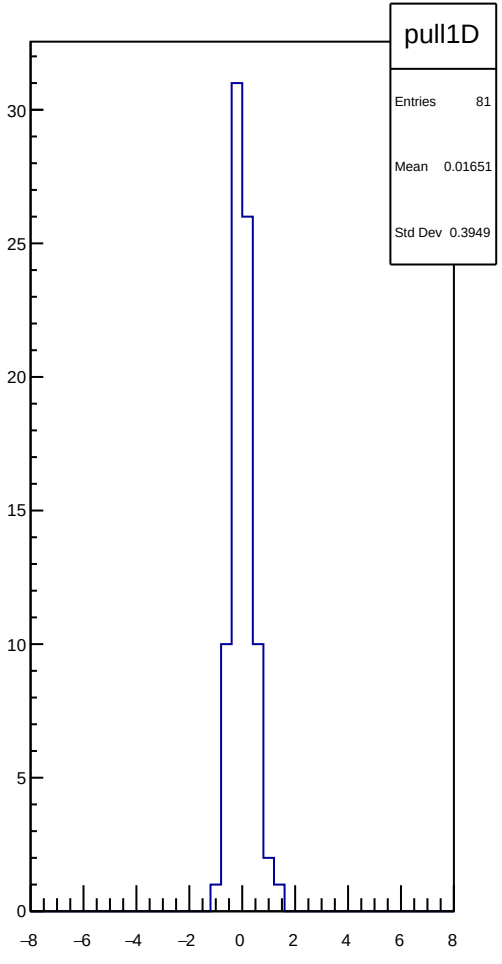

pull1D
Entries 81
Mean −0.04912
Std Dev 0.5626

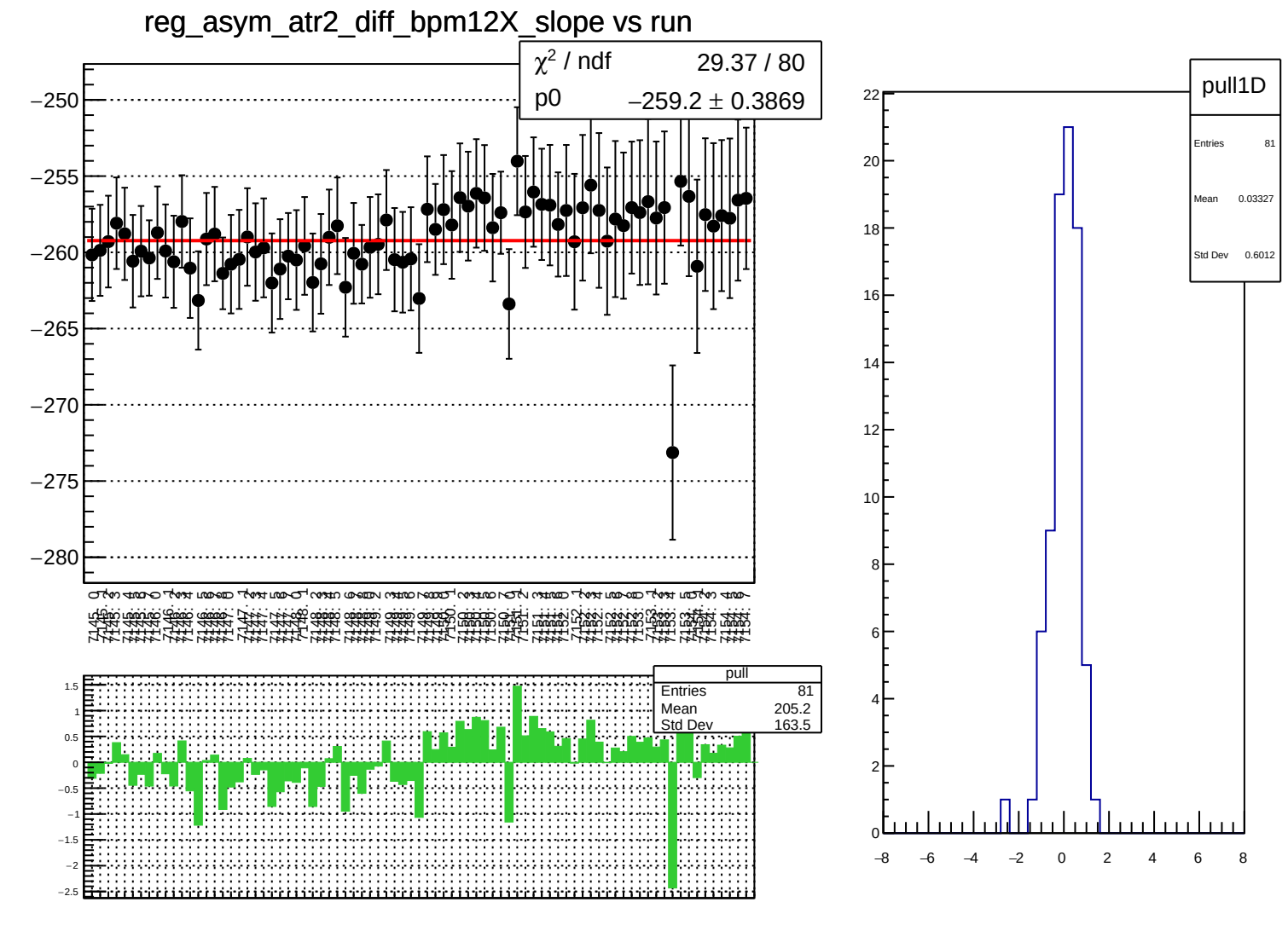

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 10.75 / 80
p0 −29.08 ± 7.99
pull
Entries 81
Mean 78.38
Std Dev 61.95
pull1D
Entries 81
Mean −0.007611
Std Dev 0.3642

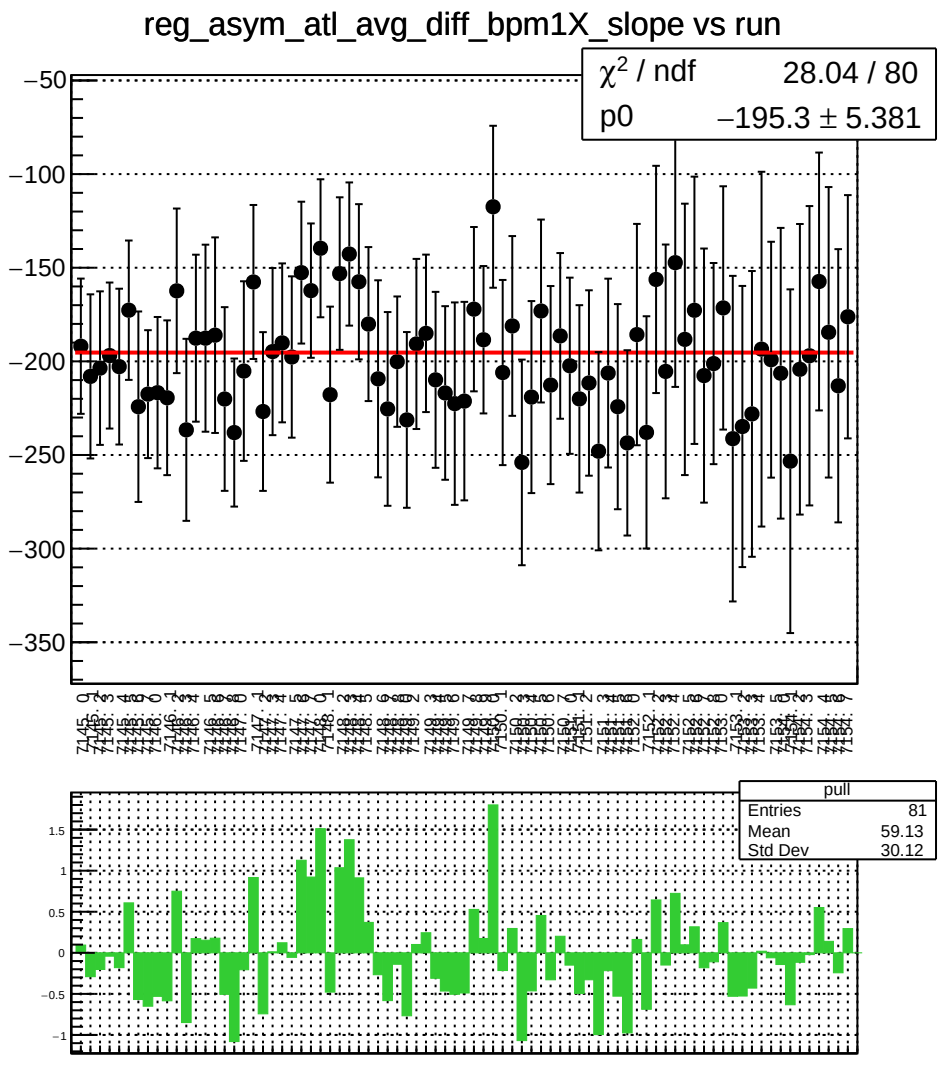

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 27.18 / 80
p0 423.8 ± 9.473
700
600
500
400
300
pull
Entries 81
Mean 95.46
Std Dev 53.56
1
0.5
0
−0.5
−1
−1.5

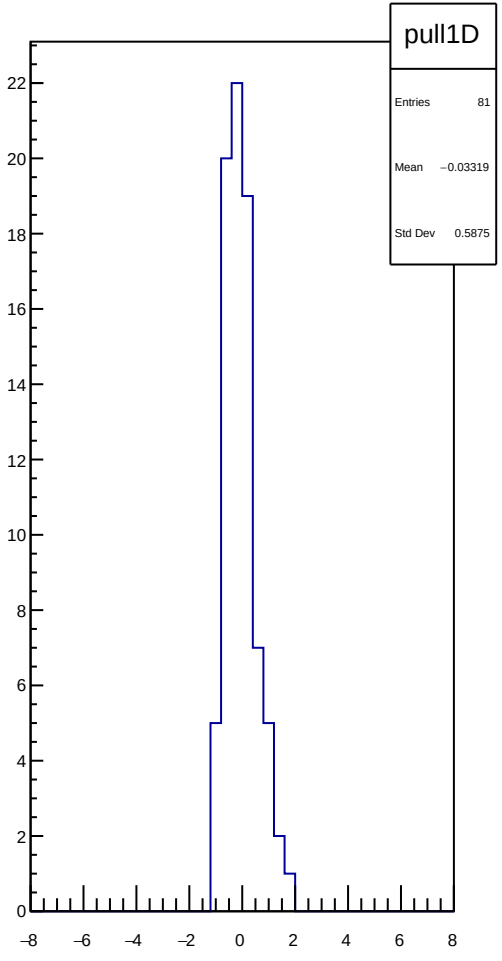

pull1D
Entries 81
Mean 0.05271
Std Dev 0.5768
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

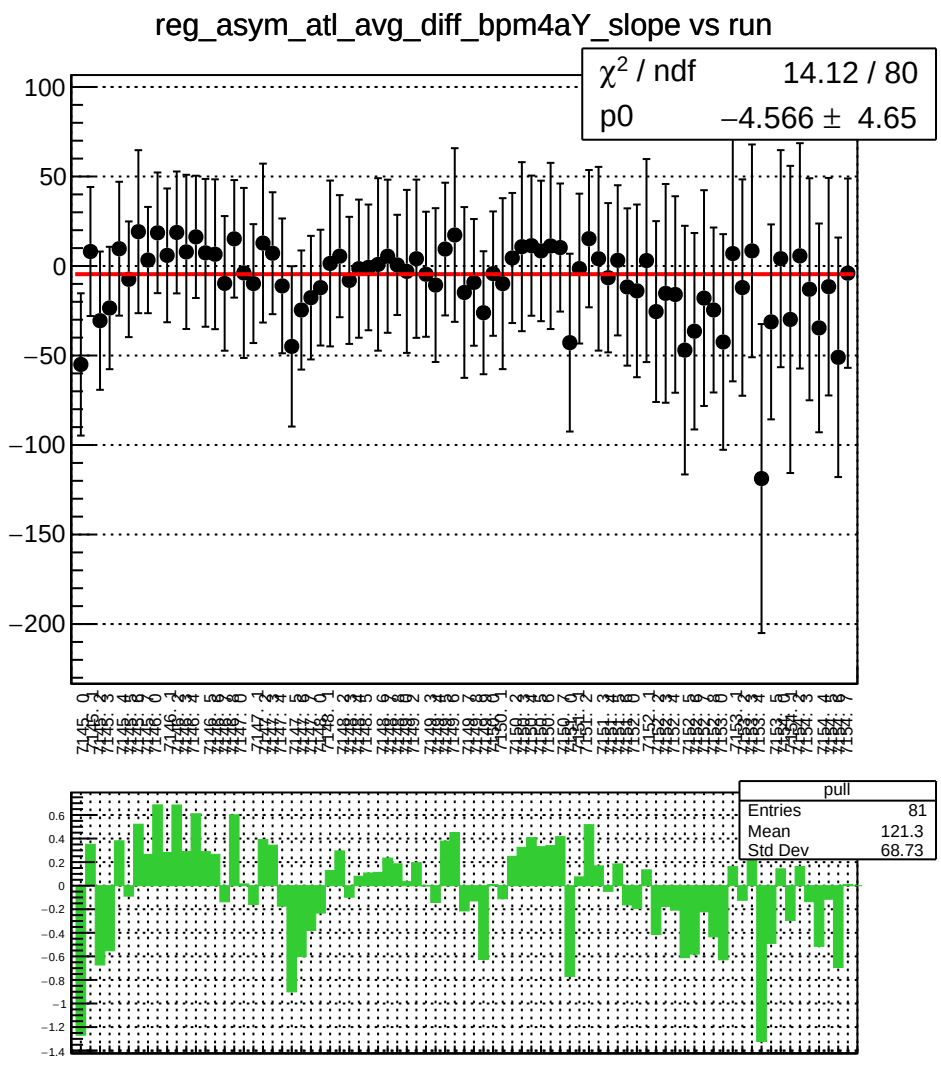

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 12.65 / 80
p0 172 ± 8.682
pull
Entries 81
Mean 129.6
Std Dev 71.3

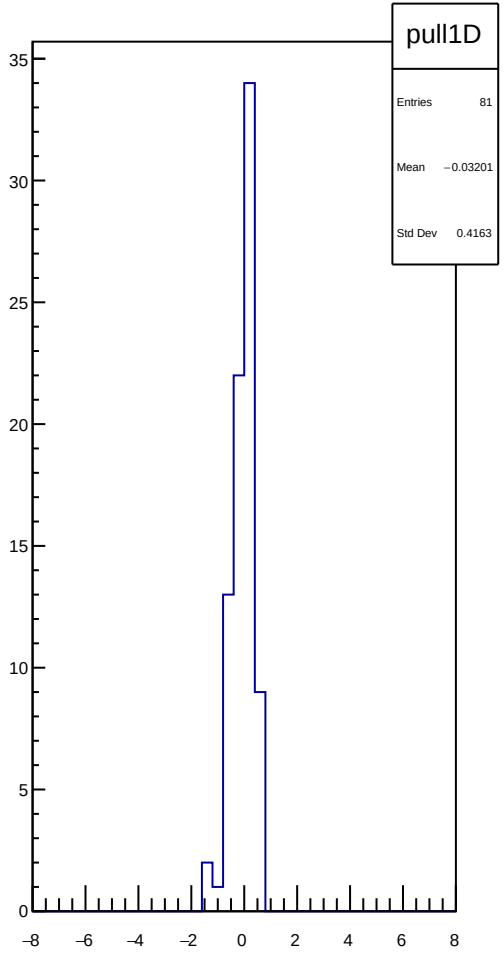

pull1D
Entries 81
Mean 0.01651
Std Dev 0.3949

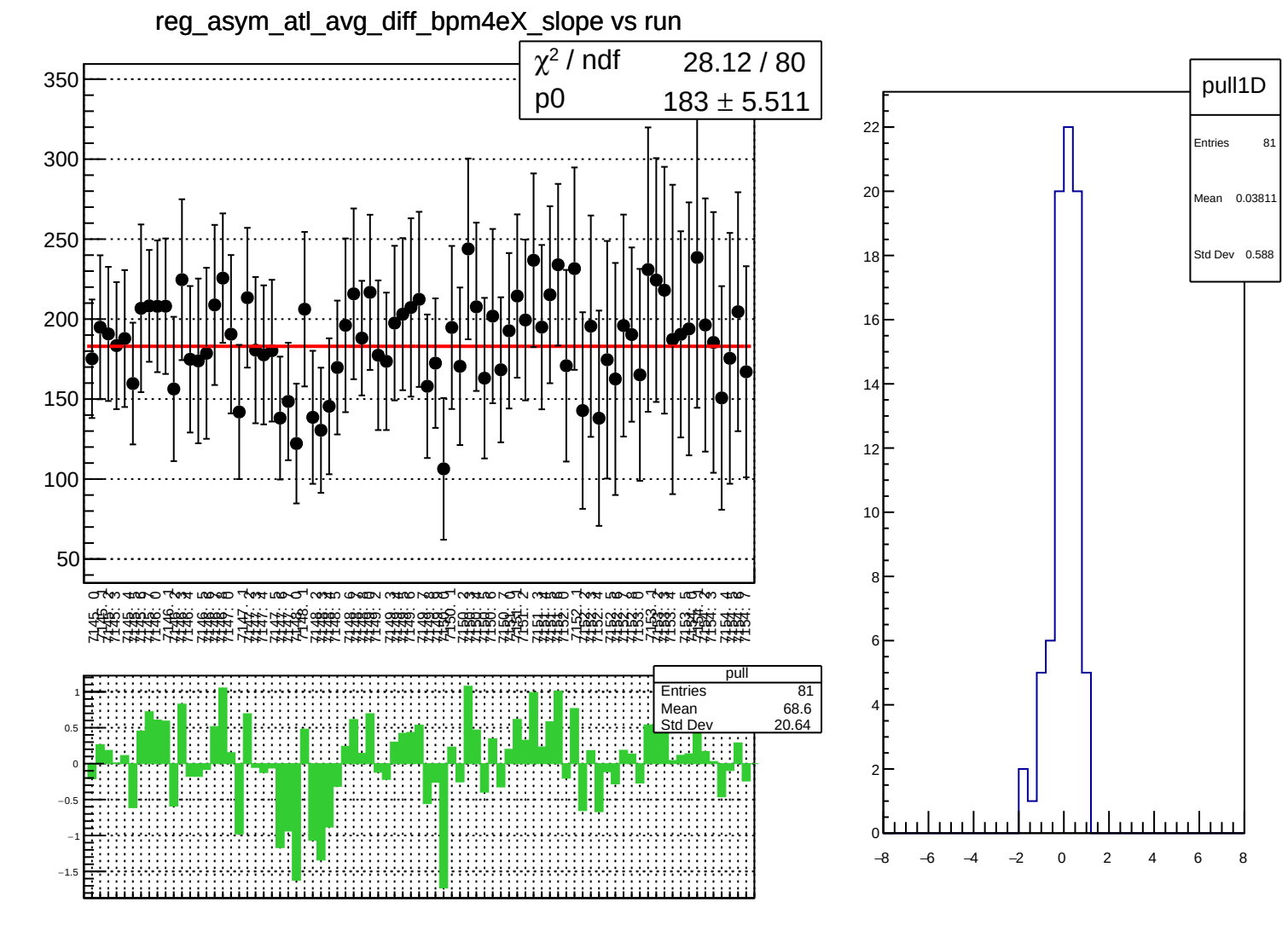

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 29.37 / 80
p0 −259.2 ± 0.3869
pull
Entries 81
Mean 205.2
Std Dev 163.5
pull1D
Entries 81
Mean 0.03327
Std Dev 0.6012

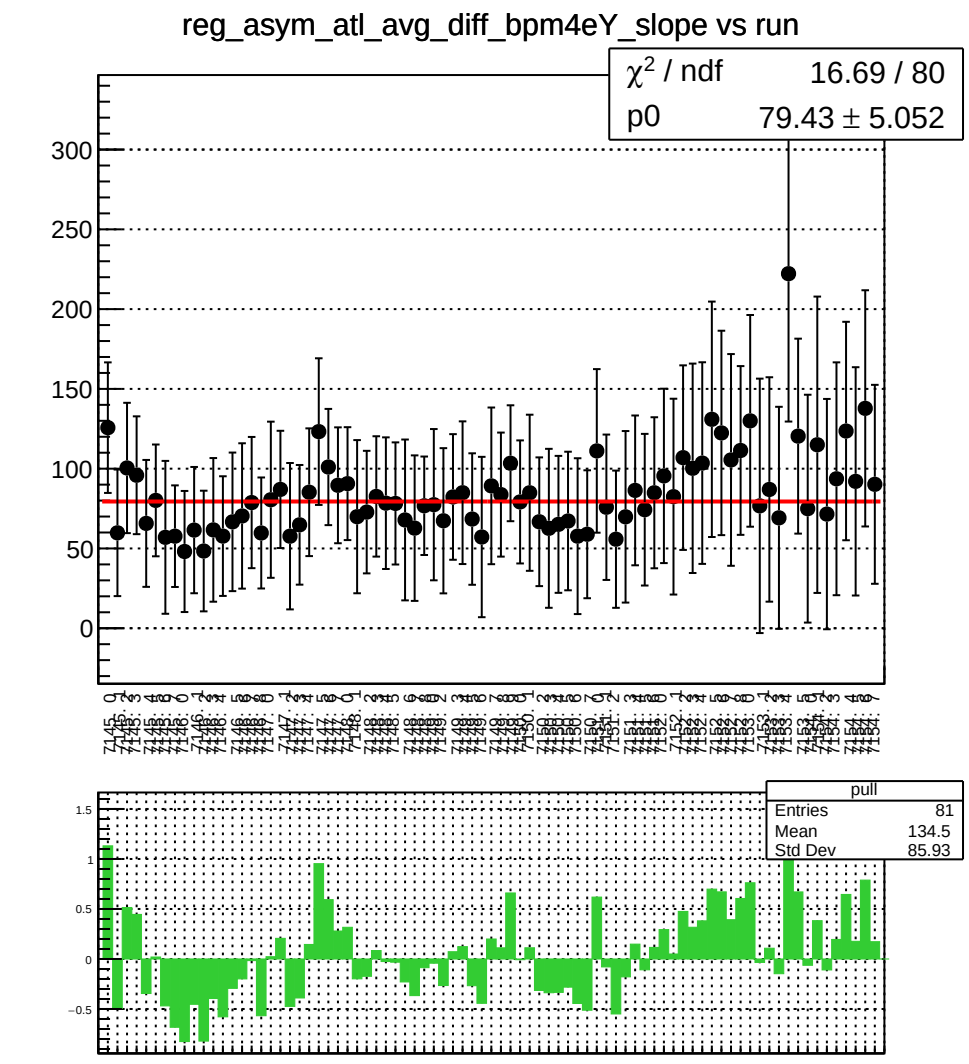

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 28.04 / 80
p0 −195.3 ± 5.381
pull
Entries 81
Mean 59.13
Std Dev 30.12

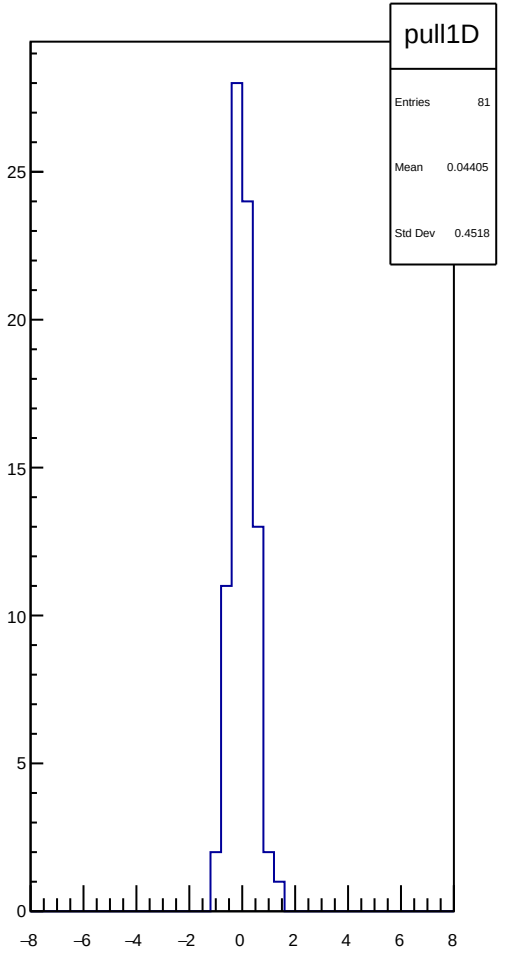

pull1D
Entries 81
Mean −0.03319
Std Dev 0.5875

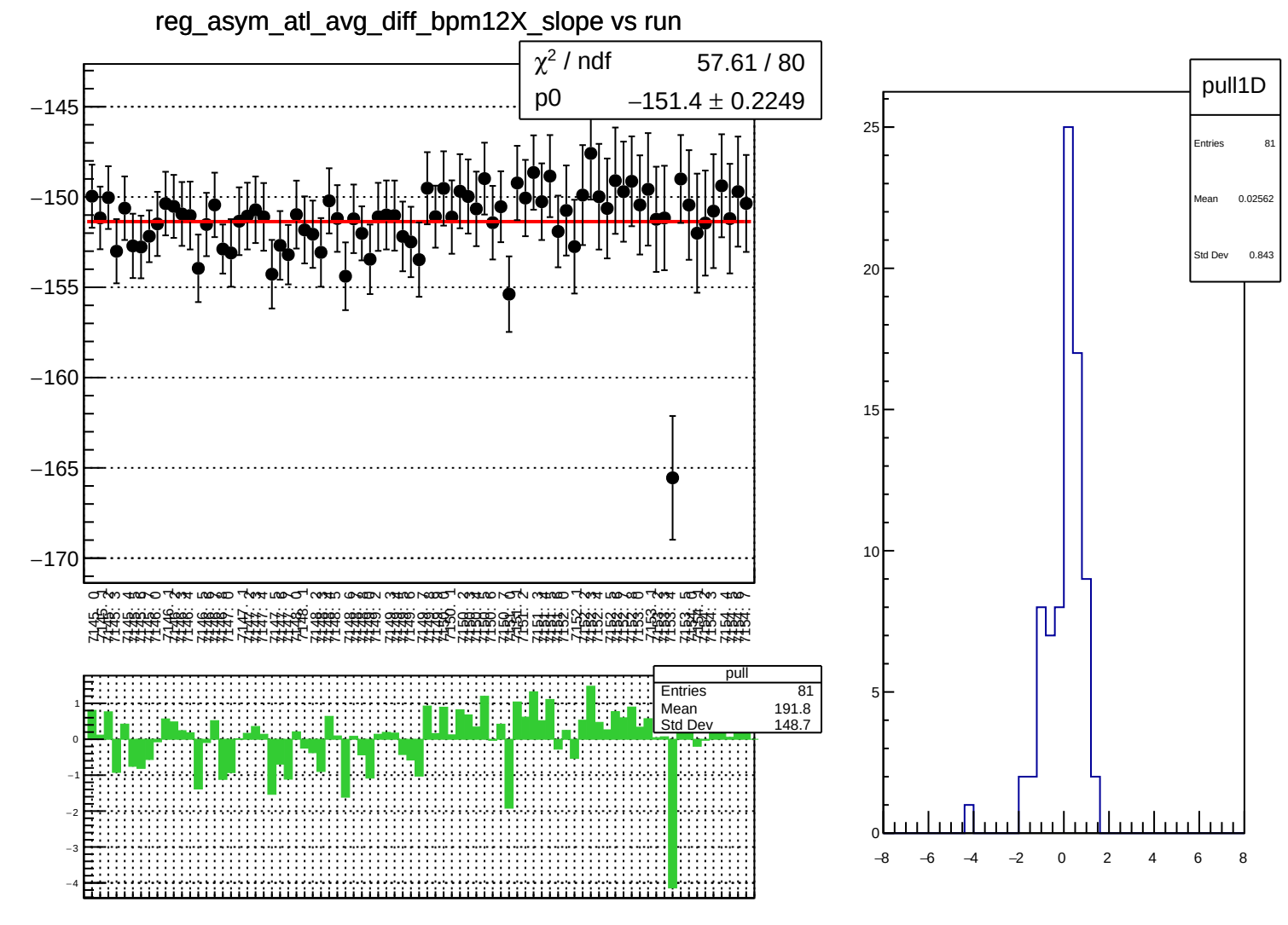

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.12 / 80
p0 −4.566 ± 4.65
pull
Entries 81
Mean 121.3
Std Dev 68.73

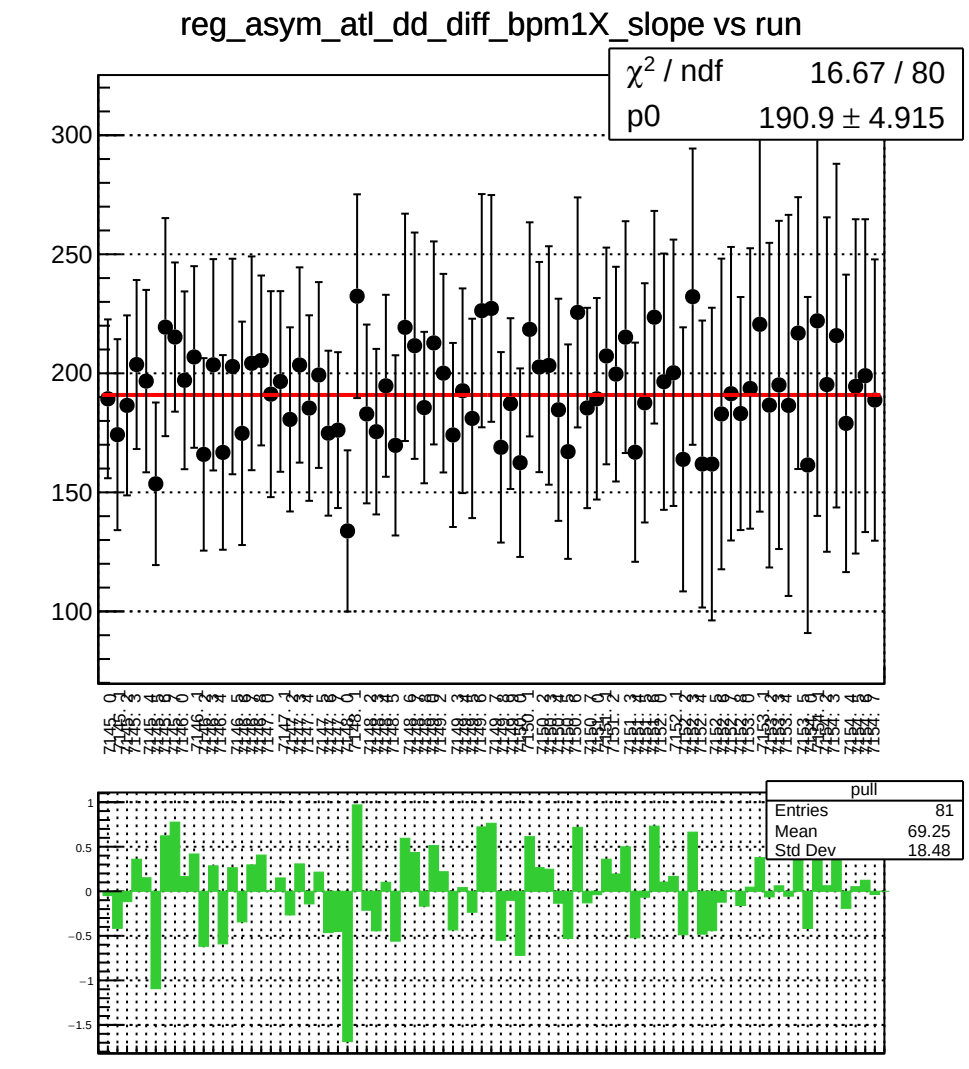

pull1D
Entries 81
Mean −0.03201
Std Dev 0.4163

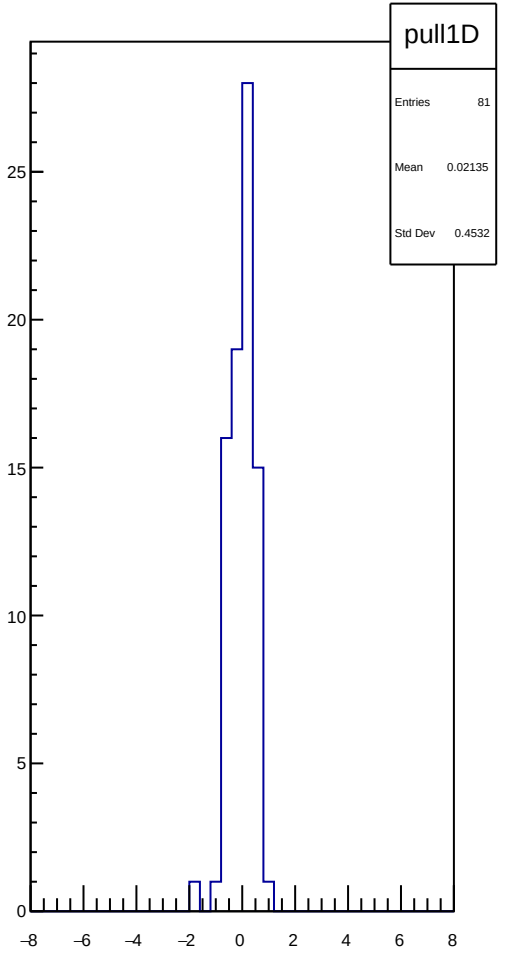

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.12 / 80
p0 183 ± 5.511
pull
Entries 81
Mean 68.6
Std Dev 20.64
pull1D
Entries 81
Mean 0.03811
Std Dev 0.588

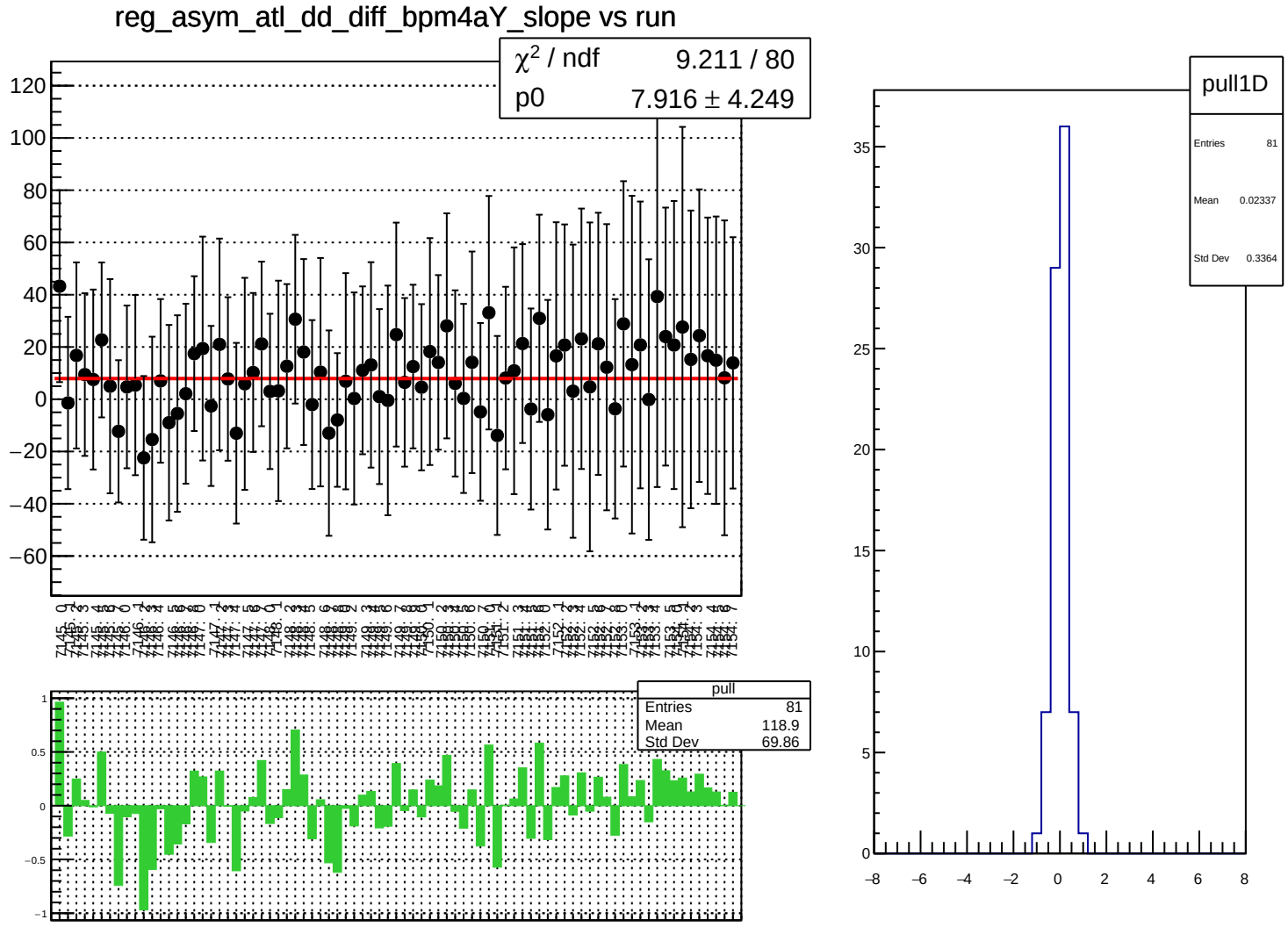

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.69 / 80
p0 79.43 ± 5.052
pull
Entries 81
Mean 134.5
Std Dev 85.93

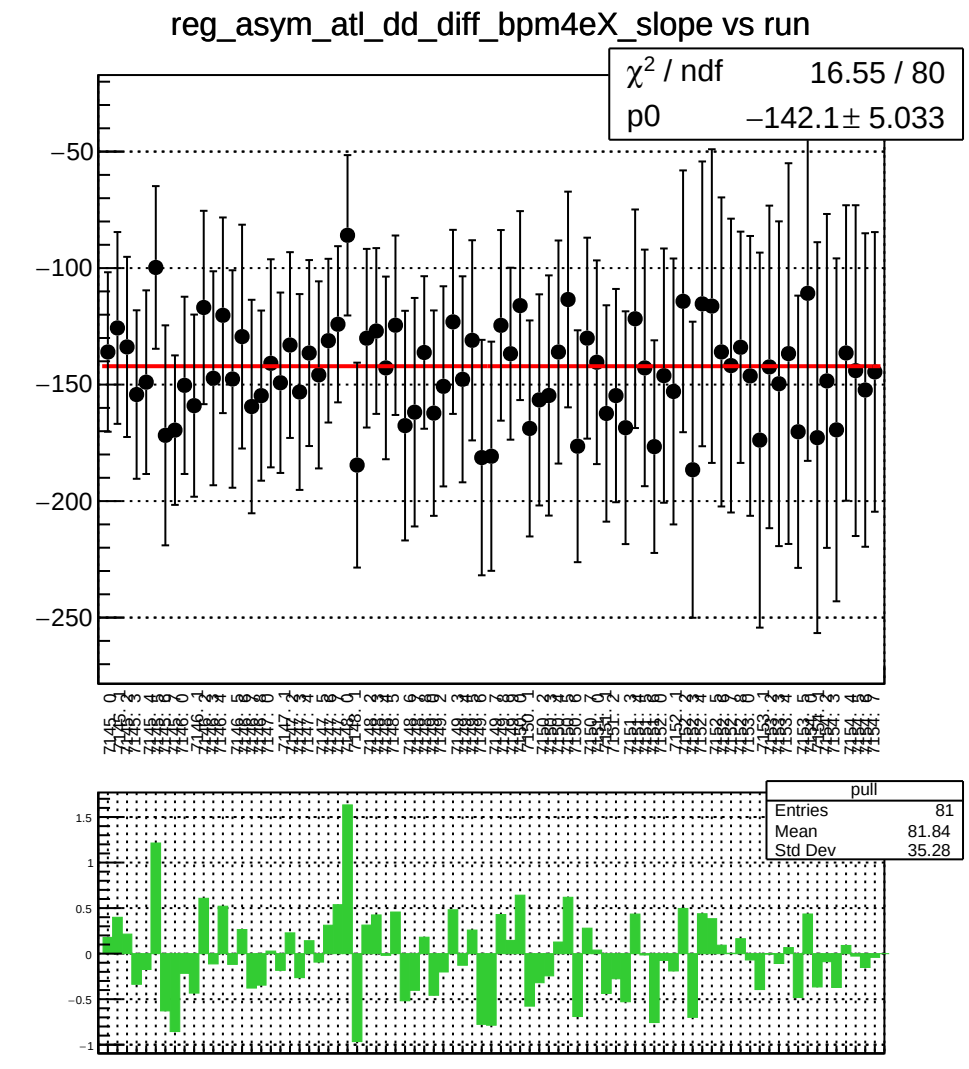

pull1D
Entries 81
Mean 0.04405
Std Dev 0.4518

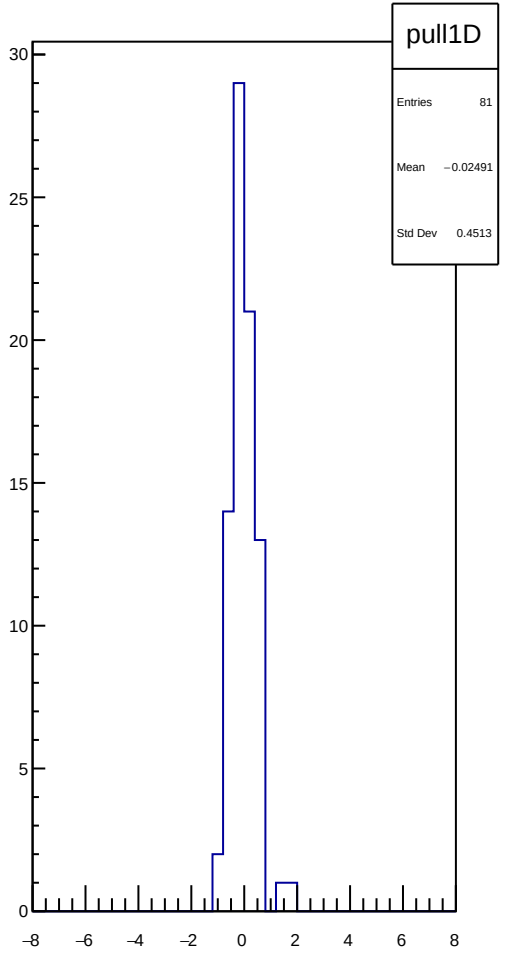

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 57.61 / 80
p0 −151.4 ± 0.2249
−145
−150
−155
−160
−165
−170
pull
Entries 81
Mean 191.8
Std Dev 148.7
pull1D
Entries 81
Mean 0.02562
Std Dev 0.843
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

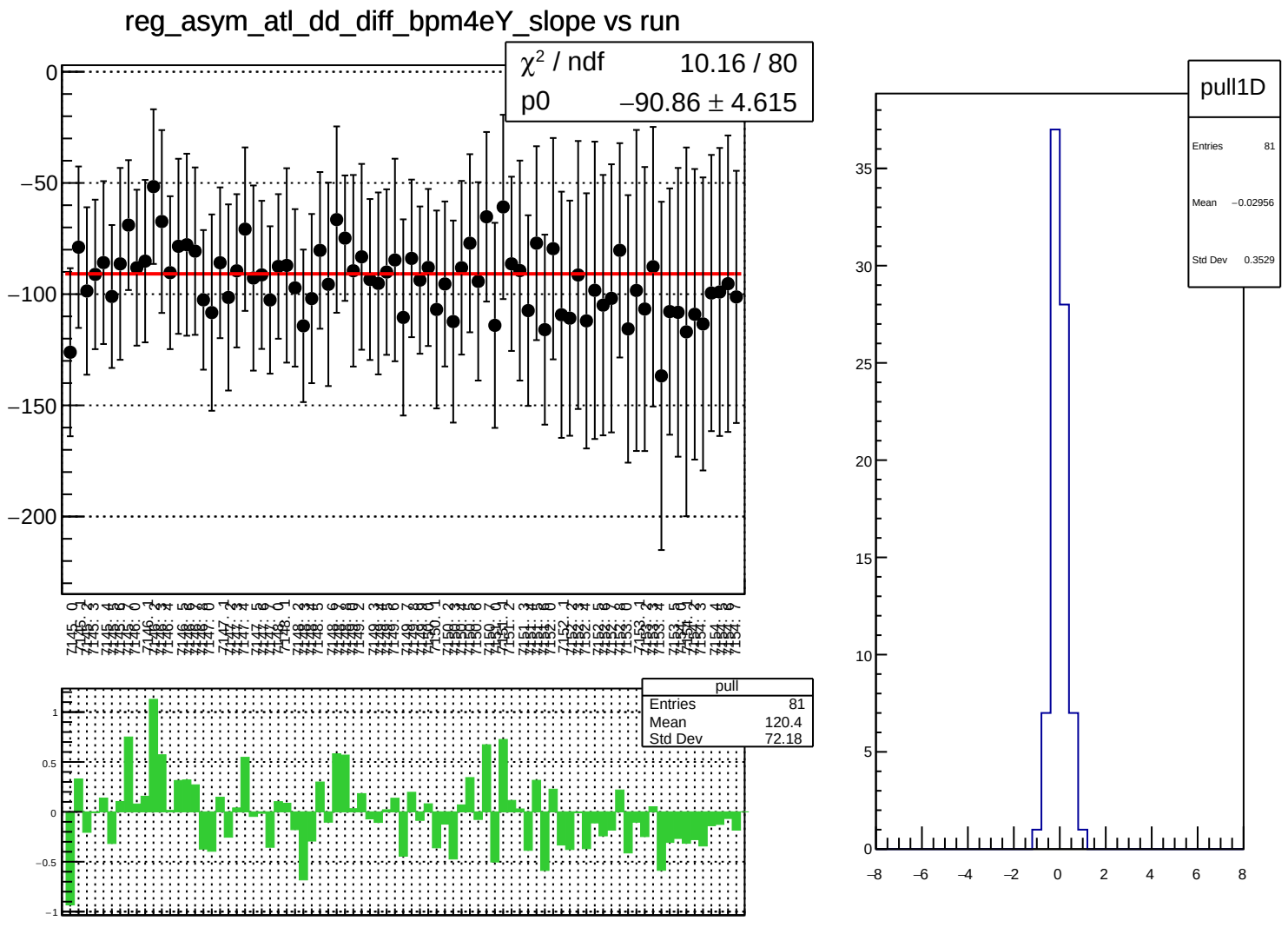

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 16.67 / 80
p0 190.9 ± 4.915
300
250
200
150
100
pull
Entries 81
Mean 69.25
Std Dev 18.48
1
0.5
0
−0.5
−1
−1.5

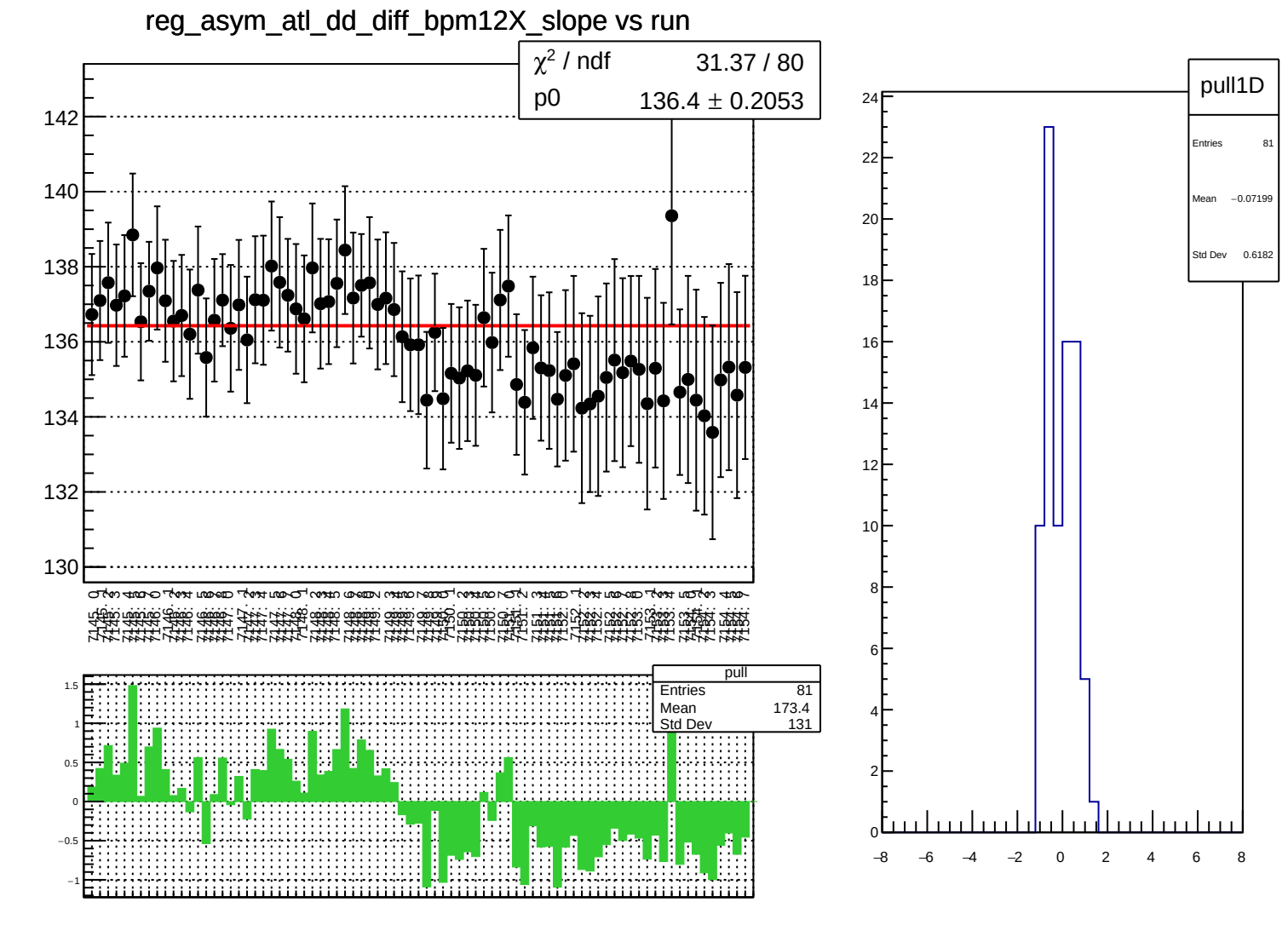

pull1D
Entries 81
Mean 0.02135
Std Dev 0.4532
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

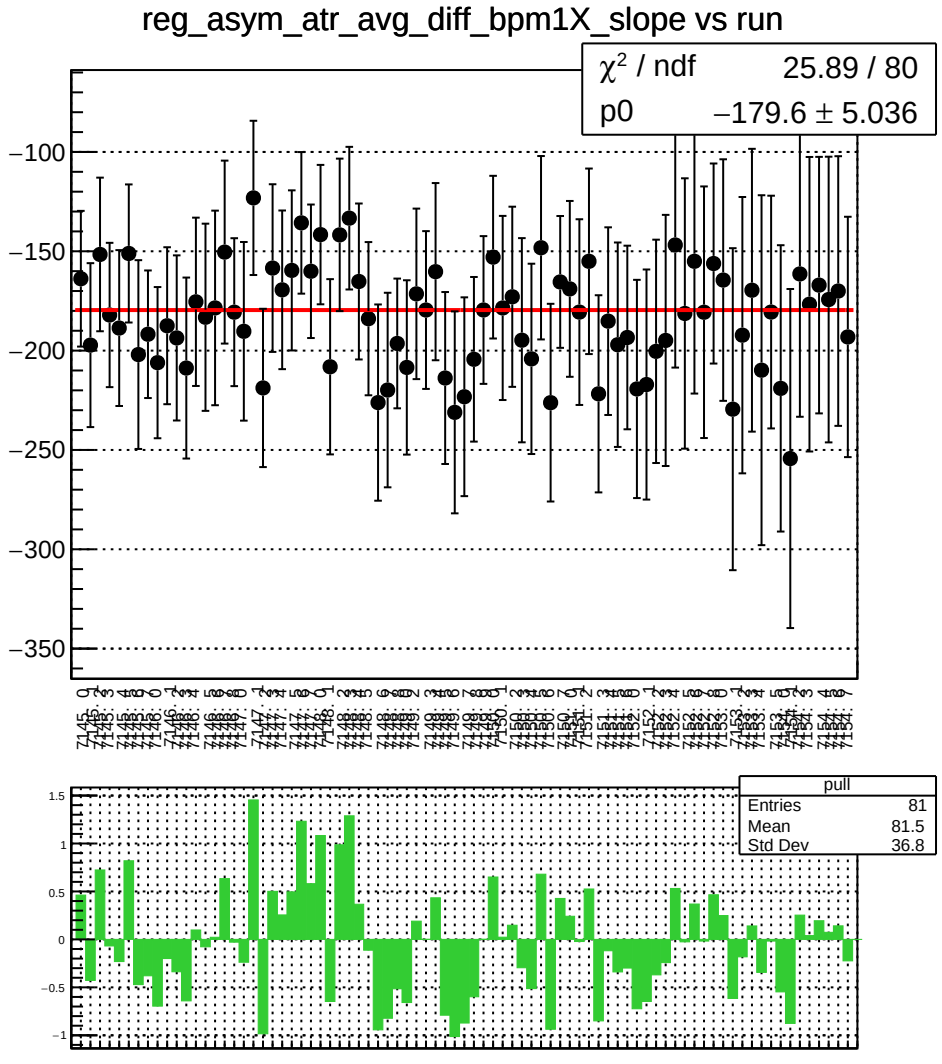

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.211 / 80
p0 7.916 ± 4.249
pull
Entries 81
Mean 118.9
Std Dev 69.86
pull1D
Entries 81
Mean 0.02337
Std Dev 0.3364

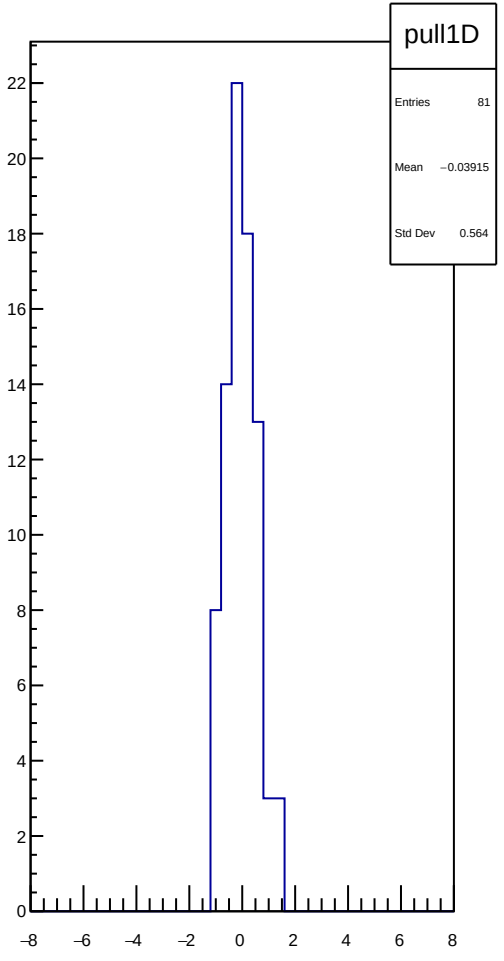

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.55 / 80
p0 −142.1 ± 5.033
−50
−100
−150
−200
−250
pull
Entries 81
Mean 81.84
Std Dev 35.28
1.5
1
0.5
0
−0.5
−1

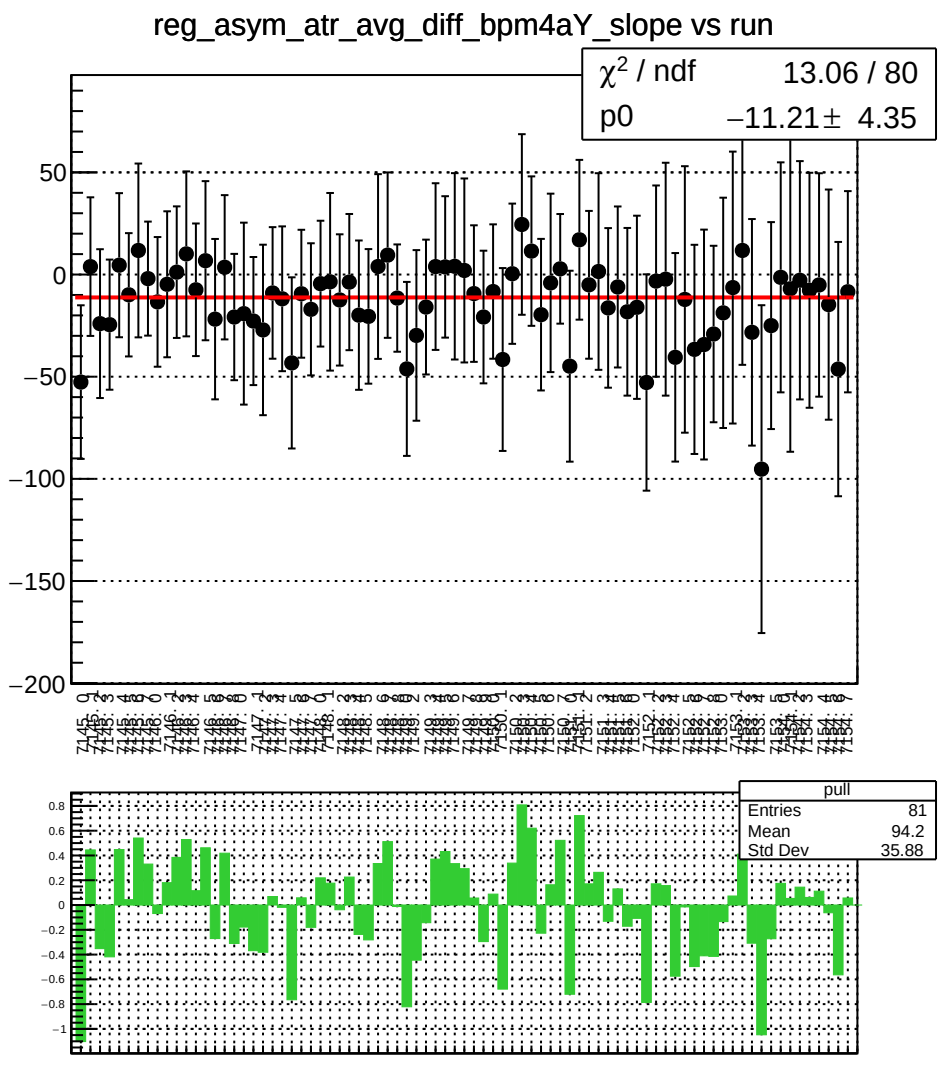

pull1D
Entries 81
Mean −0.02491
Std Dev 0.4513
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

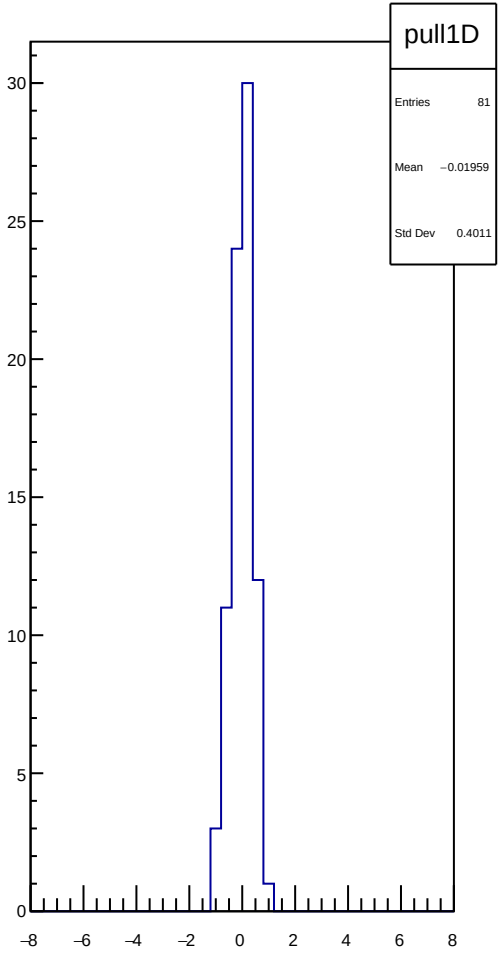

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.16 / 80
p0 −90.86 ± 4.615
pull
Entries 81
Mean 120.4
Std Dev 72.18
pull1D
Entries 81
Mean −0.02956
Std Dev 0.3529

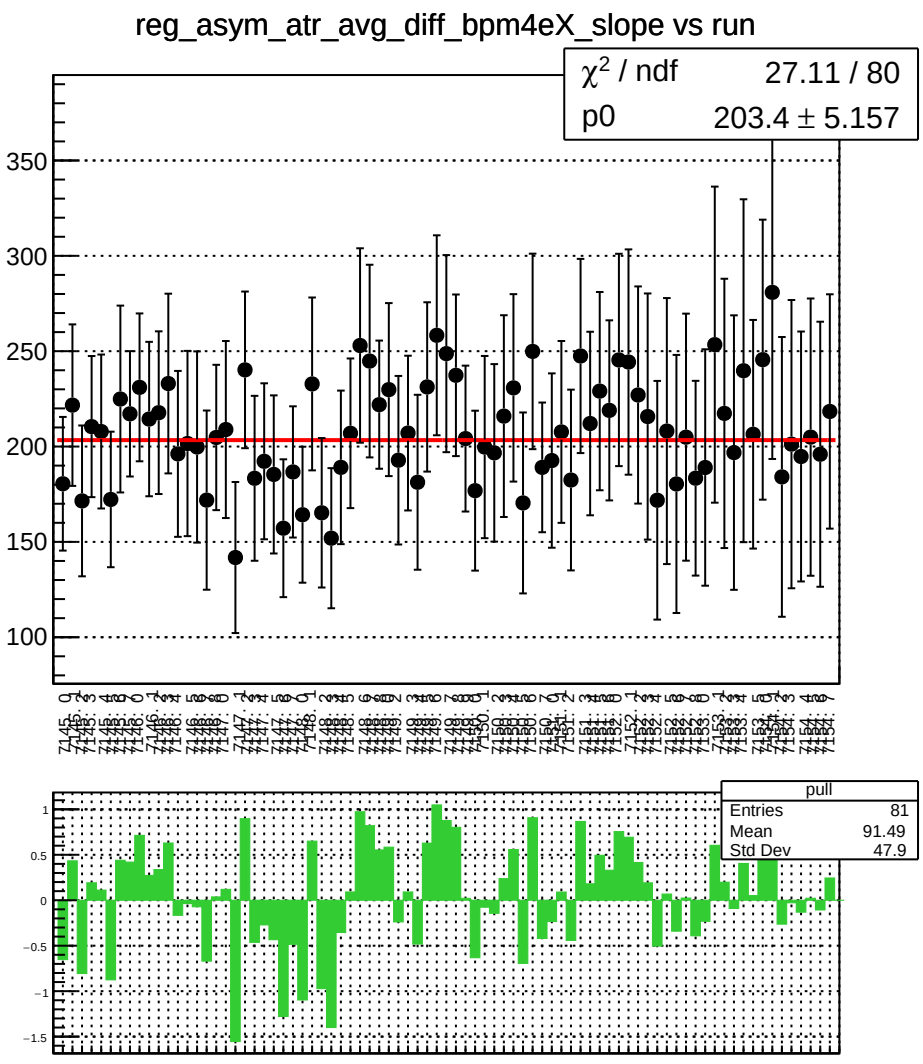

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 31.37 / 80
p0 136.4 ± 0.2053
pull
Entries 81
Mean 173.4
Std Dev 131
pull1D
Entries 81
Mean −0.07199
Std Dev 0.6182

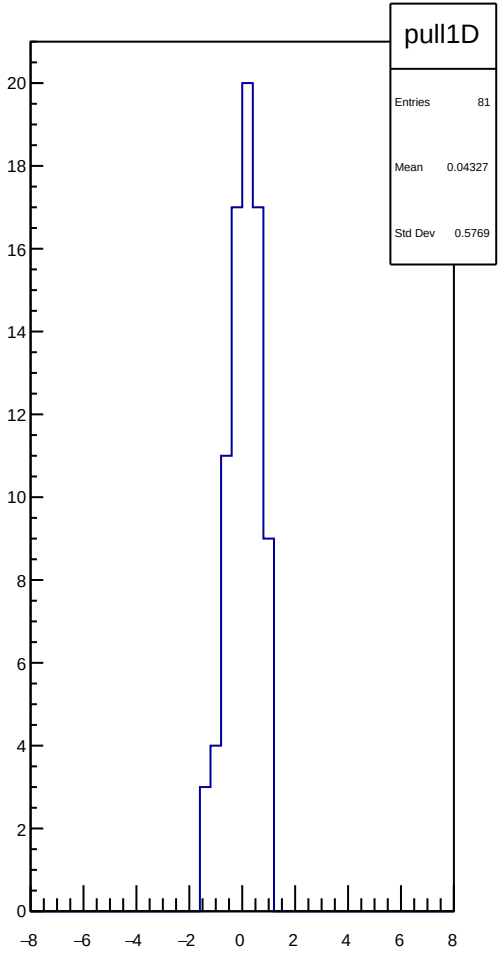

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 25.89 / 80
p0 −179.6 ± 5.036
pull
Entries 81
Mean 81.5
Std Dev 36.8

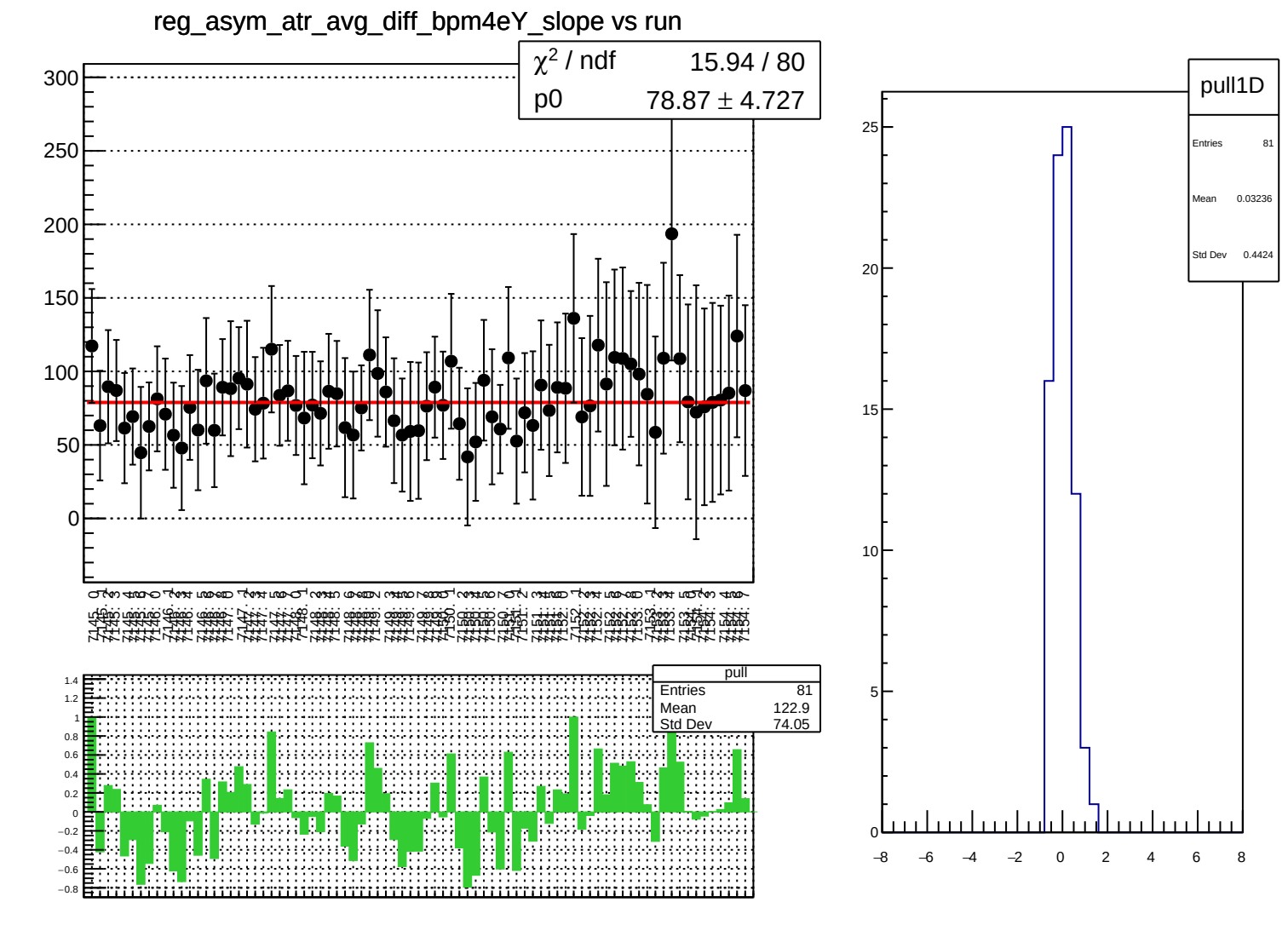

pull1D
Entries 81
Mean −0.03915
Std Dev 0.564

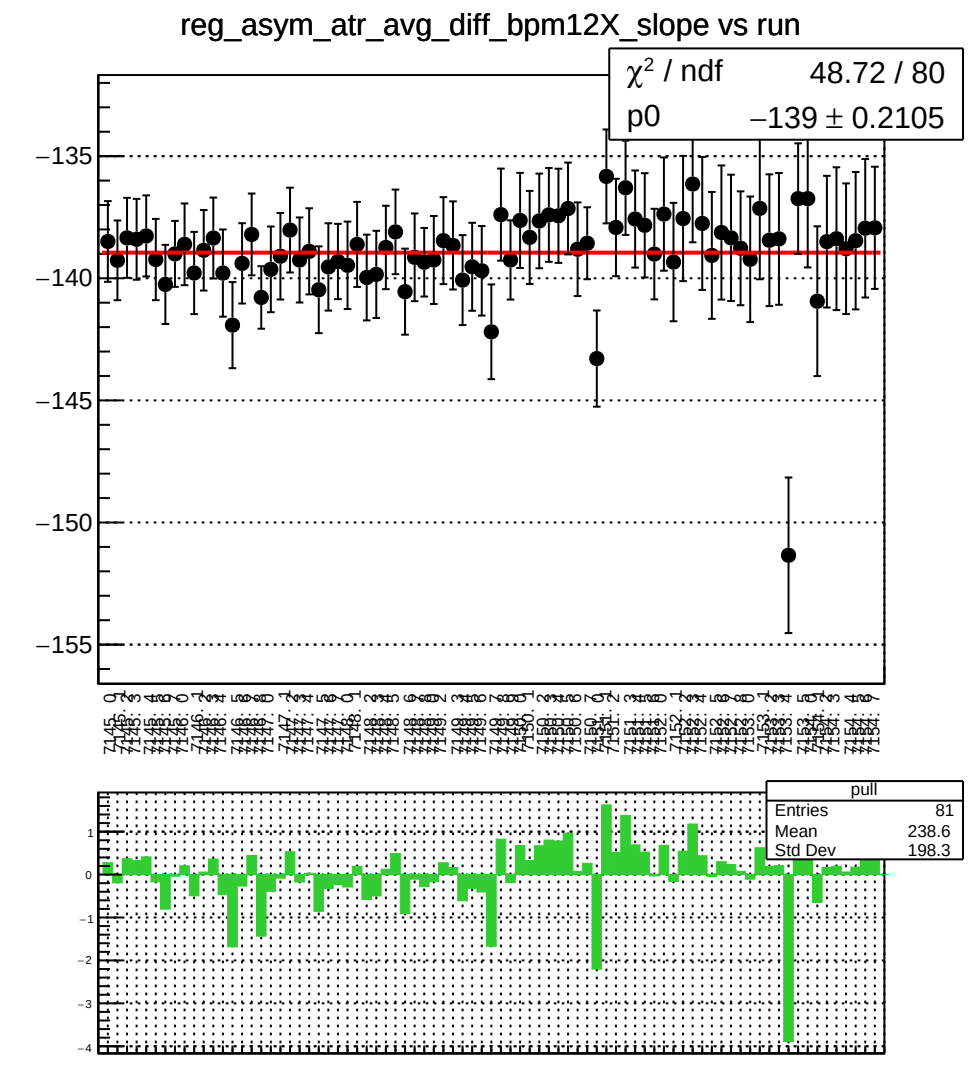

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.06 / 80
p0 −11.21± 4.35
pull
Entries 81
Mean 94.2
Std Dev 35.88

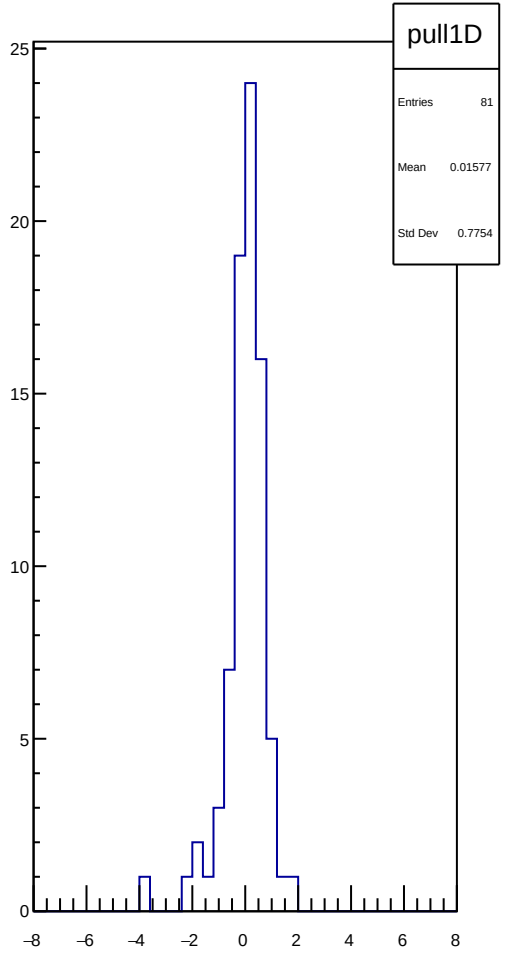

pull1D
Entries 81
Mean −0.01959
Std Dev 0.4011

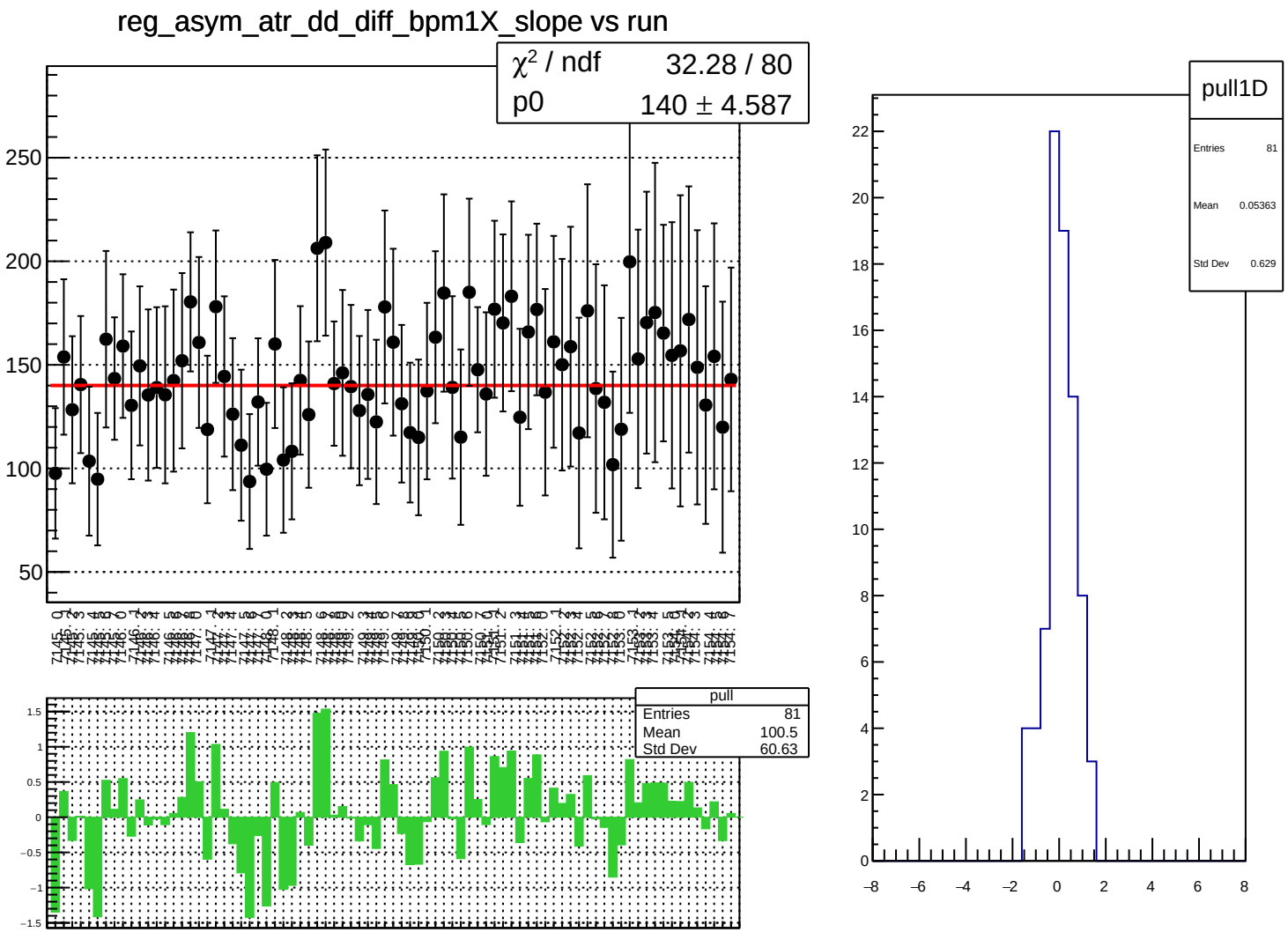

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.11 / 80
p0 203.4 ± 5.157
pull
Entries 81
Mean 91.49
Std Dev 47.9

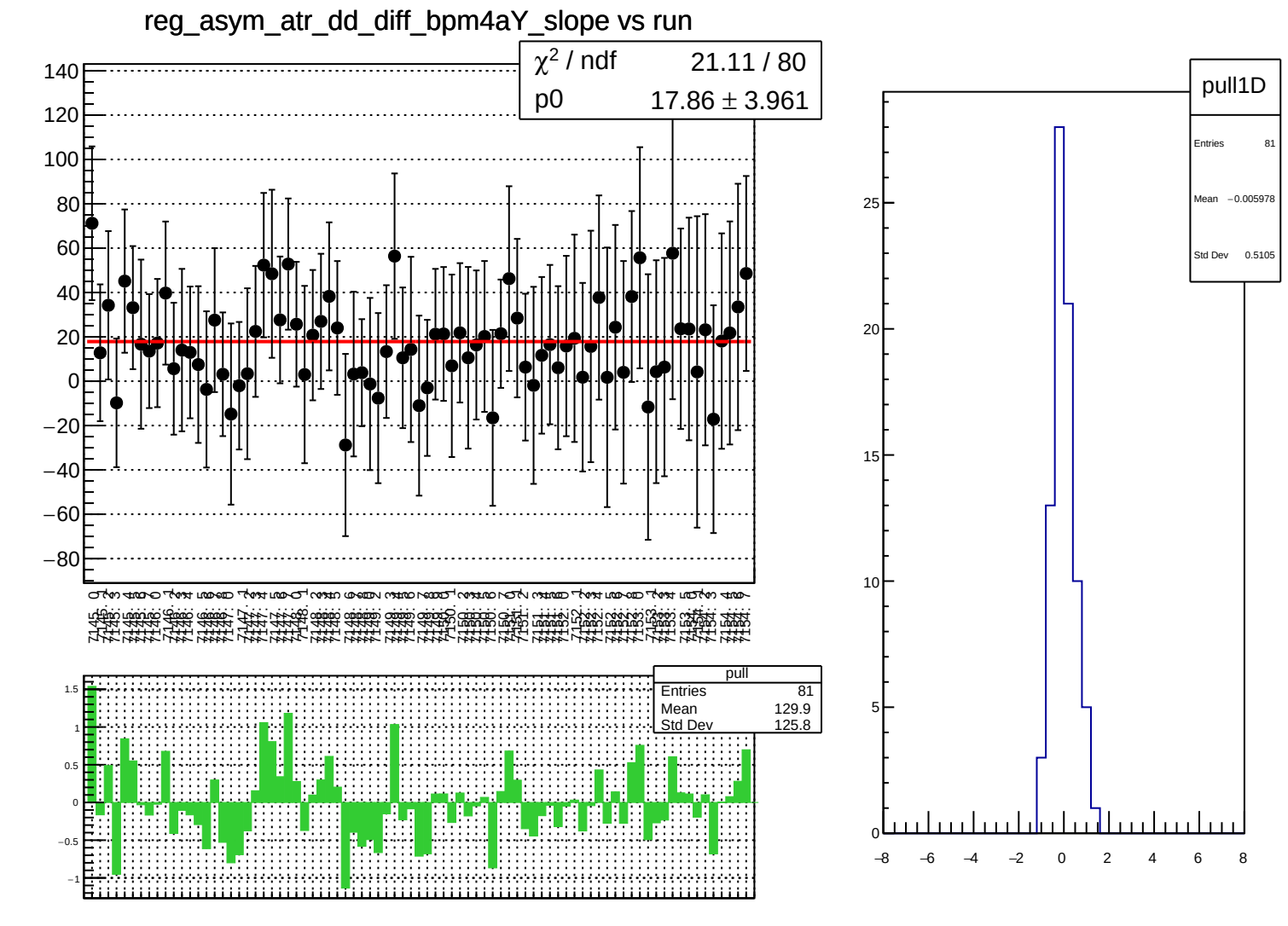

pull1D
Entries 81
Mean 0.04327
Std Dev 0.5769

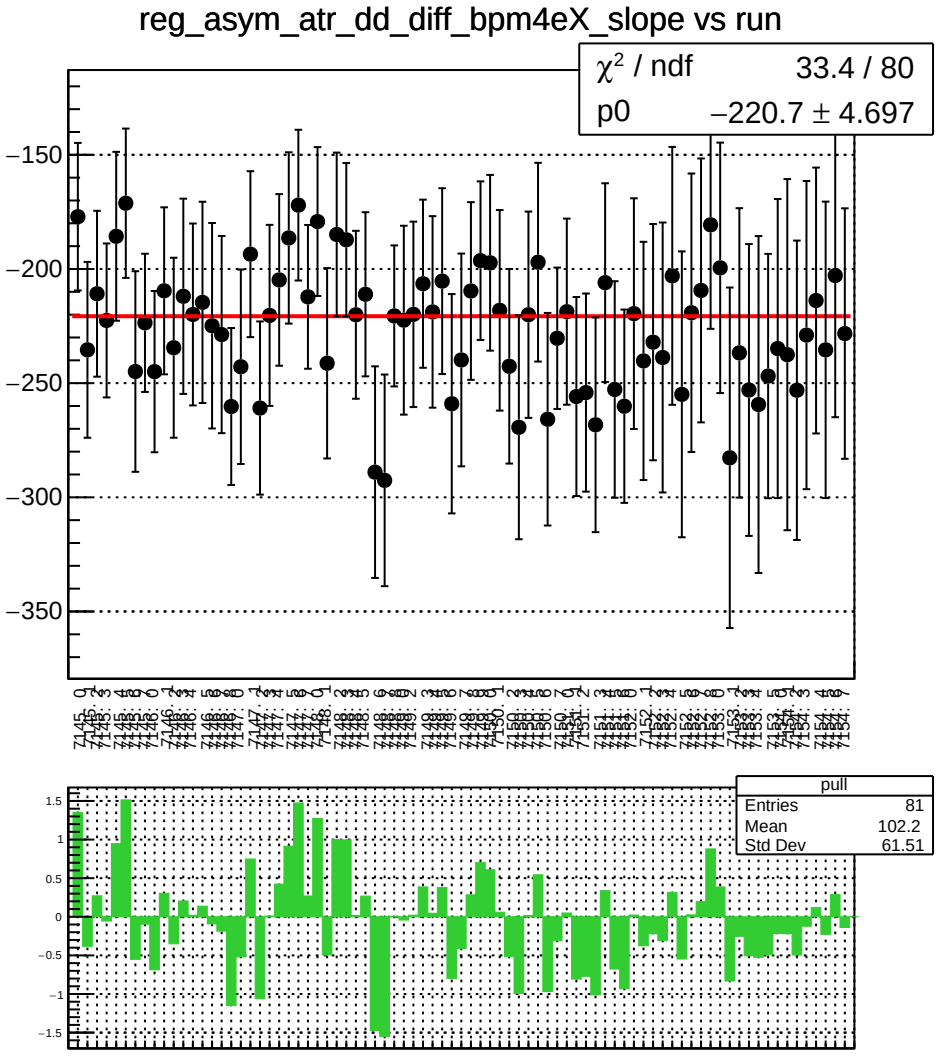

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.94 / 80
p0 78.87 ± 4.727
pull
Entries 81
Mean 122.9
Std Dev 74.05
pull1D
Entries 81
Mean 0.03236
Std Dev 0.4424

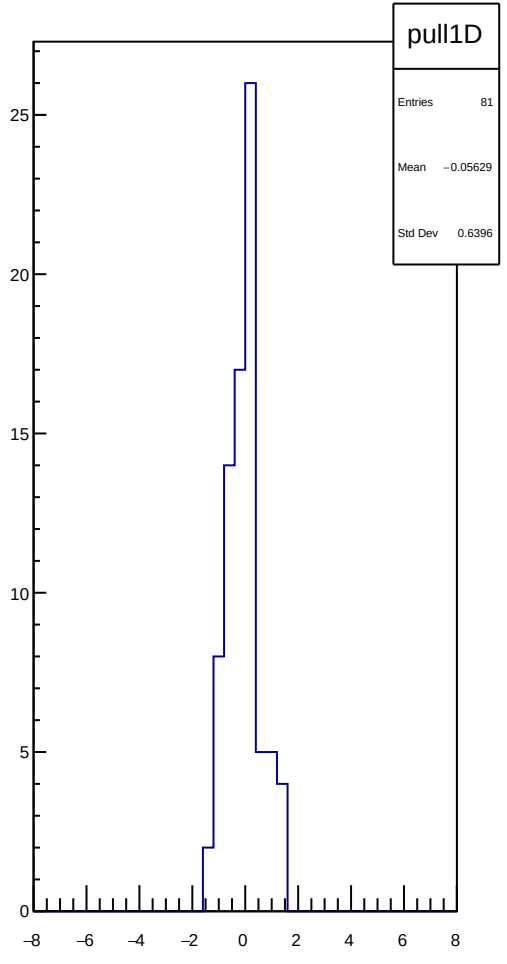

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 48.72 / 80
p0 −139 ± 0.2105
−135
−140
−145
−150
−155
pull
Entries 81
Mean 238.6
Std Dev 198.3
1
0
−1
−2
−3
−4

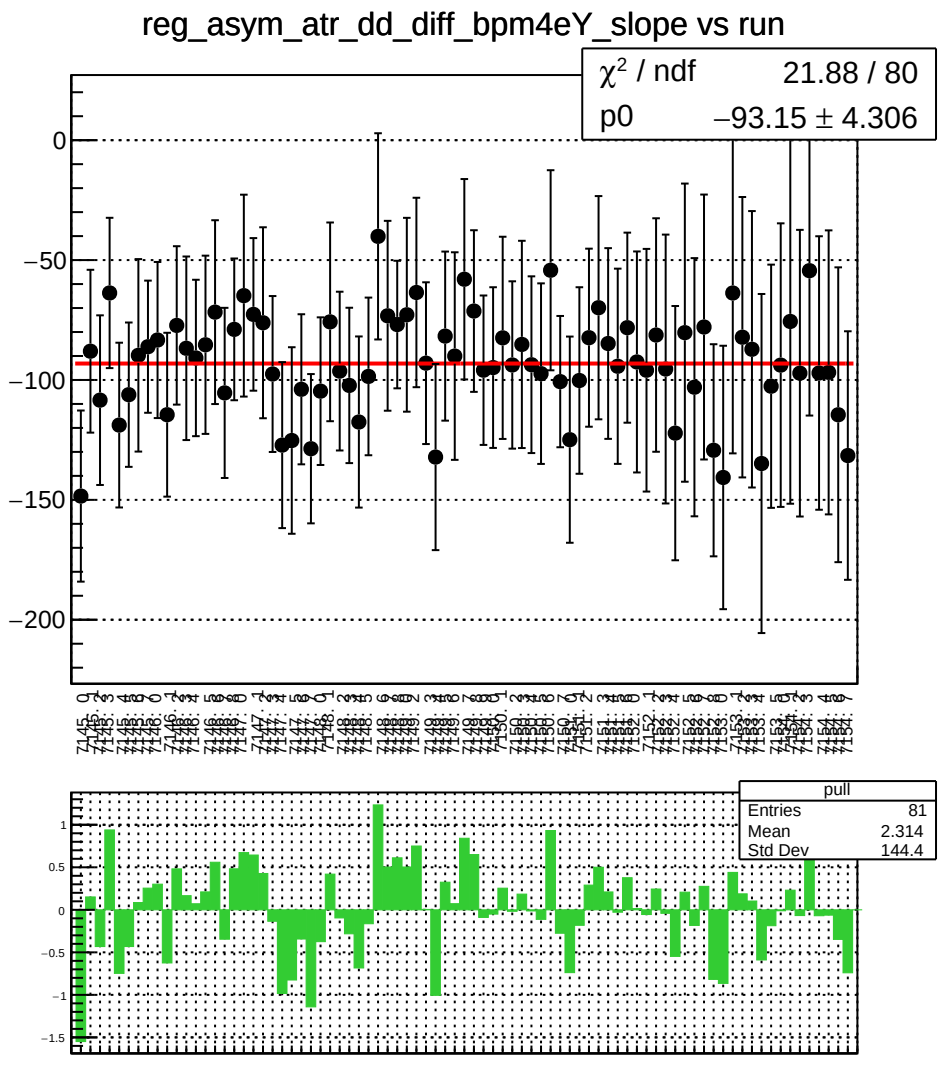

pull1D
Entries 81
Mean 0.01577
Std Dev 0.7754
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

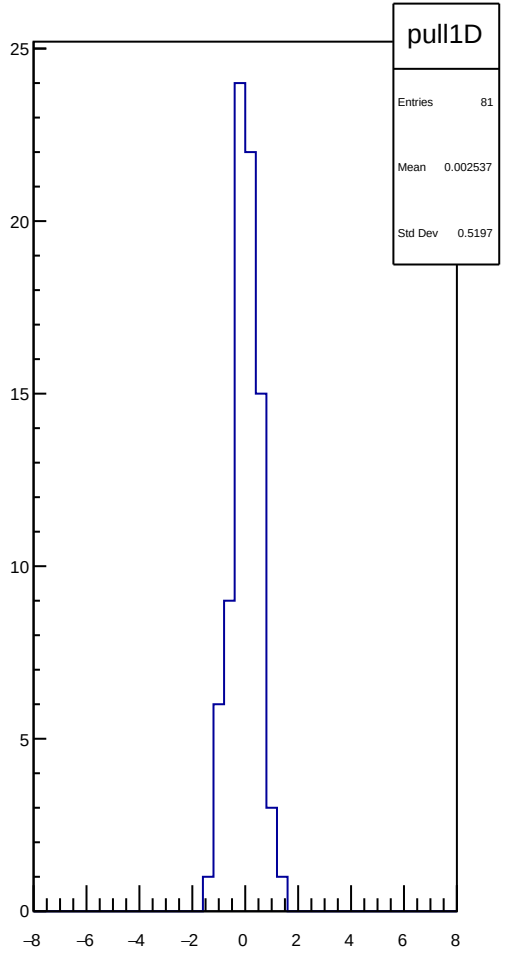

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 32.28 / 80
p0 140 ± 4.587
pull
Entries 81
Mean 100.5
Std Dev 60.63
pull1D
Entries 81
Mean 0.05363
Std Dev 0.629

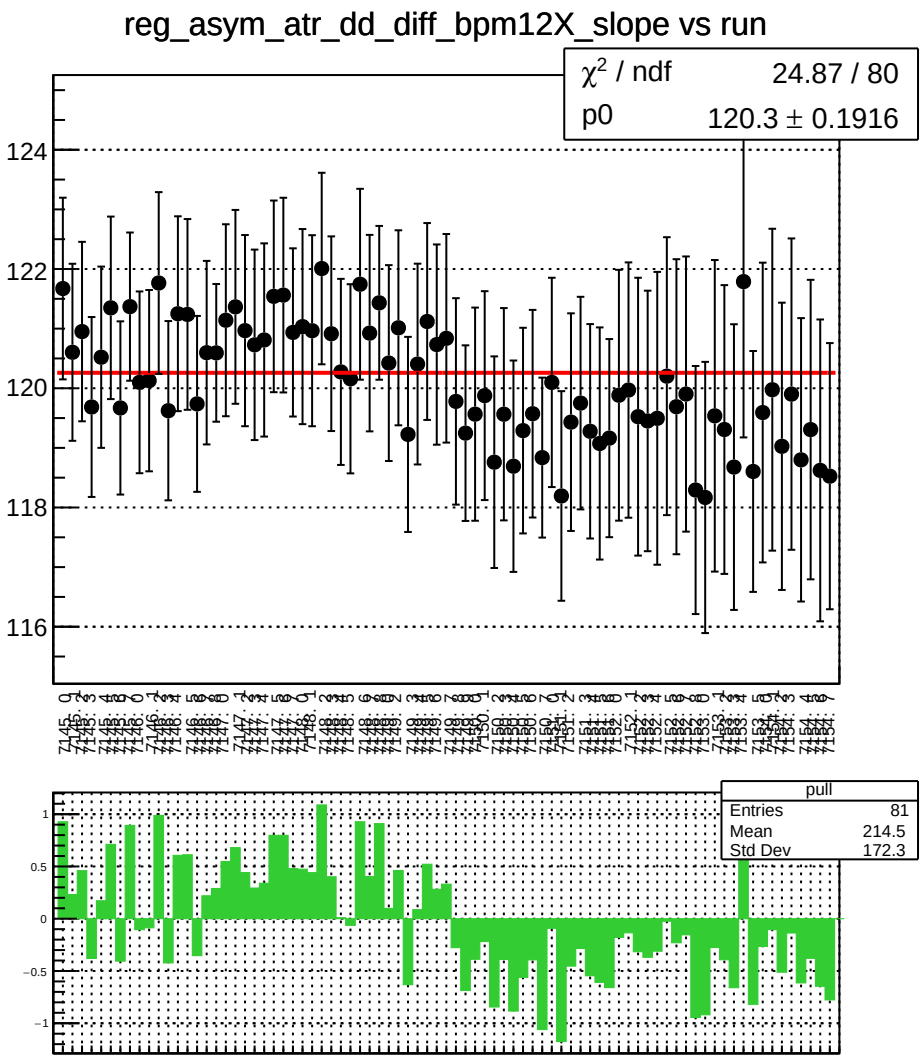

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.11 / 80
p0 17.86 ± 3.961
pull
Entries 81
Mean 129.9
Std Dev 125.8
pull1D
Entries 81
Mean −0.005978
Std Dev 0.5105

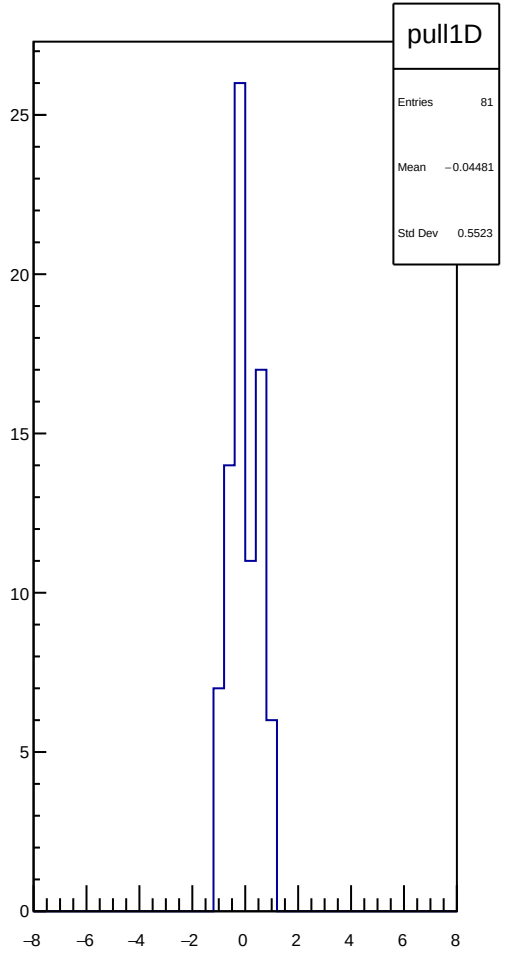

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.4 / 80
p0 −220.7 ± 4.697
−150
−200
−250
−300
−350
pull
Entries 81
Mean 102.2
Std Dev 61.51
1.5
1
0.5
0
−0.5
−1
−1.5

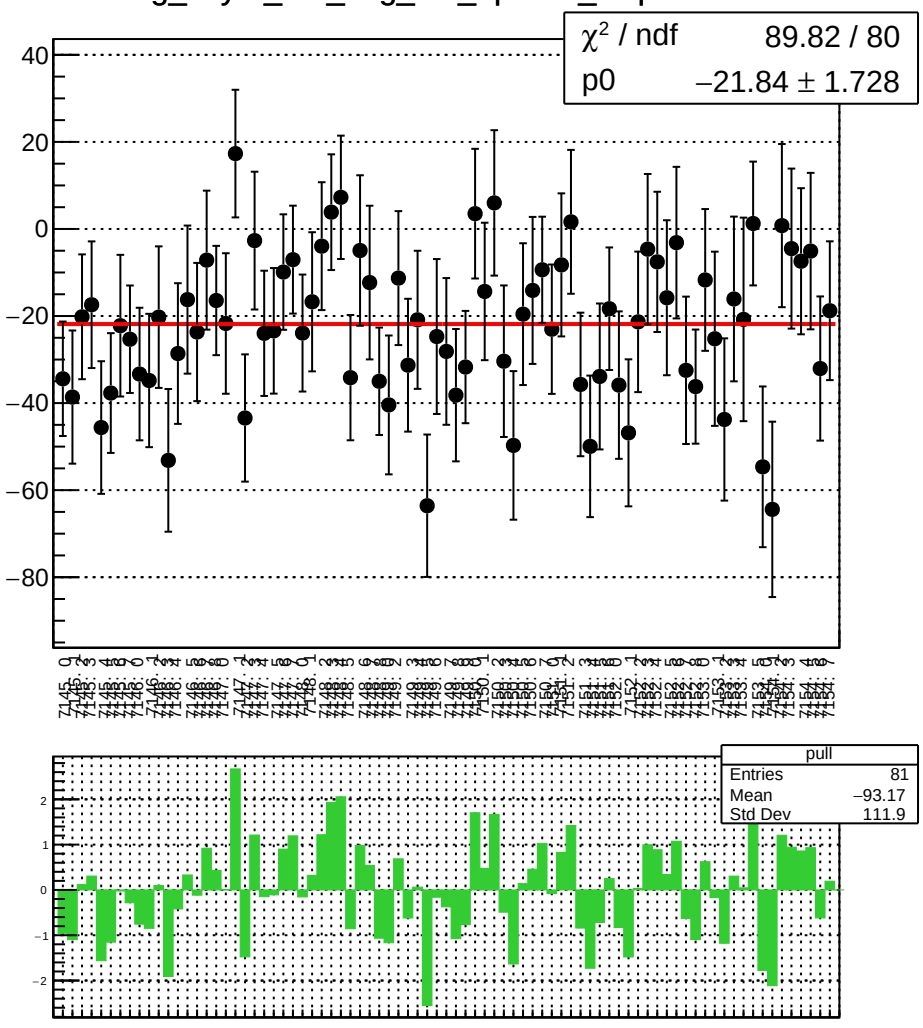

pull1D
Entries 81
Mean −0.05629
Std Dev 0.6396
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

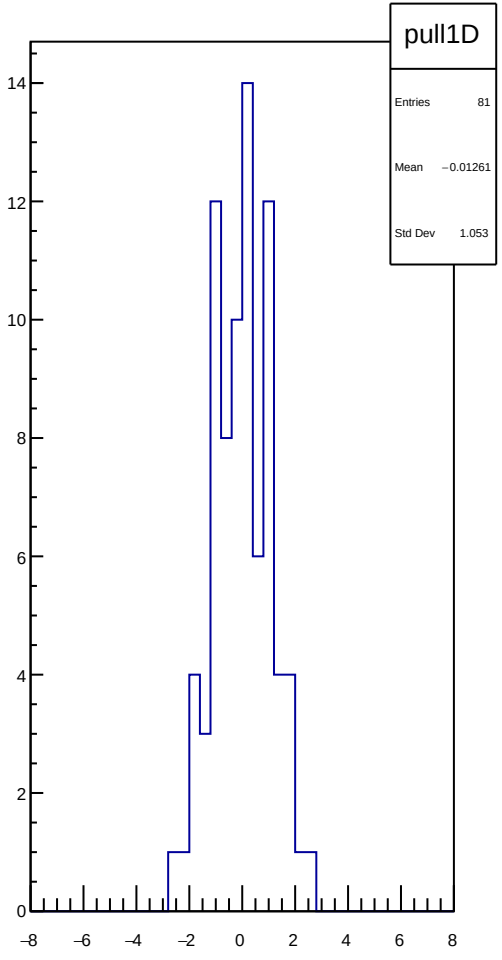

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.88 / 80
p0 −93.15 ± 4.306
0
−50
−100
−150
−200
pull
Entries 81
Mean 2.314
Std Dev 144.4
1
0.5
0
−0.5
−1
−1.5

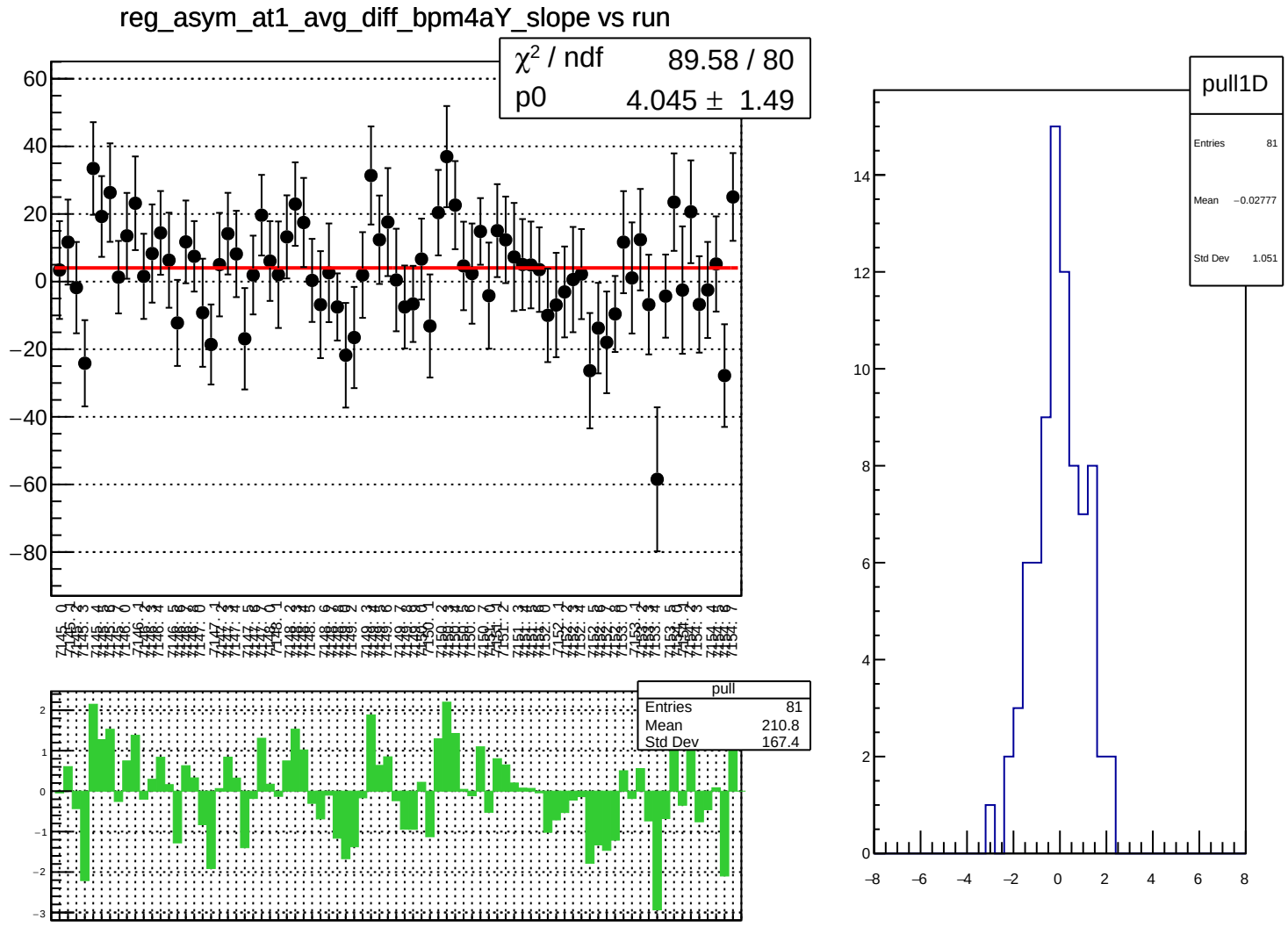

pull1D
Entries 81
Mean 0.002537
Std Dev 0.5197
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

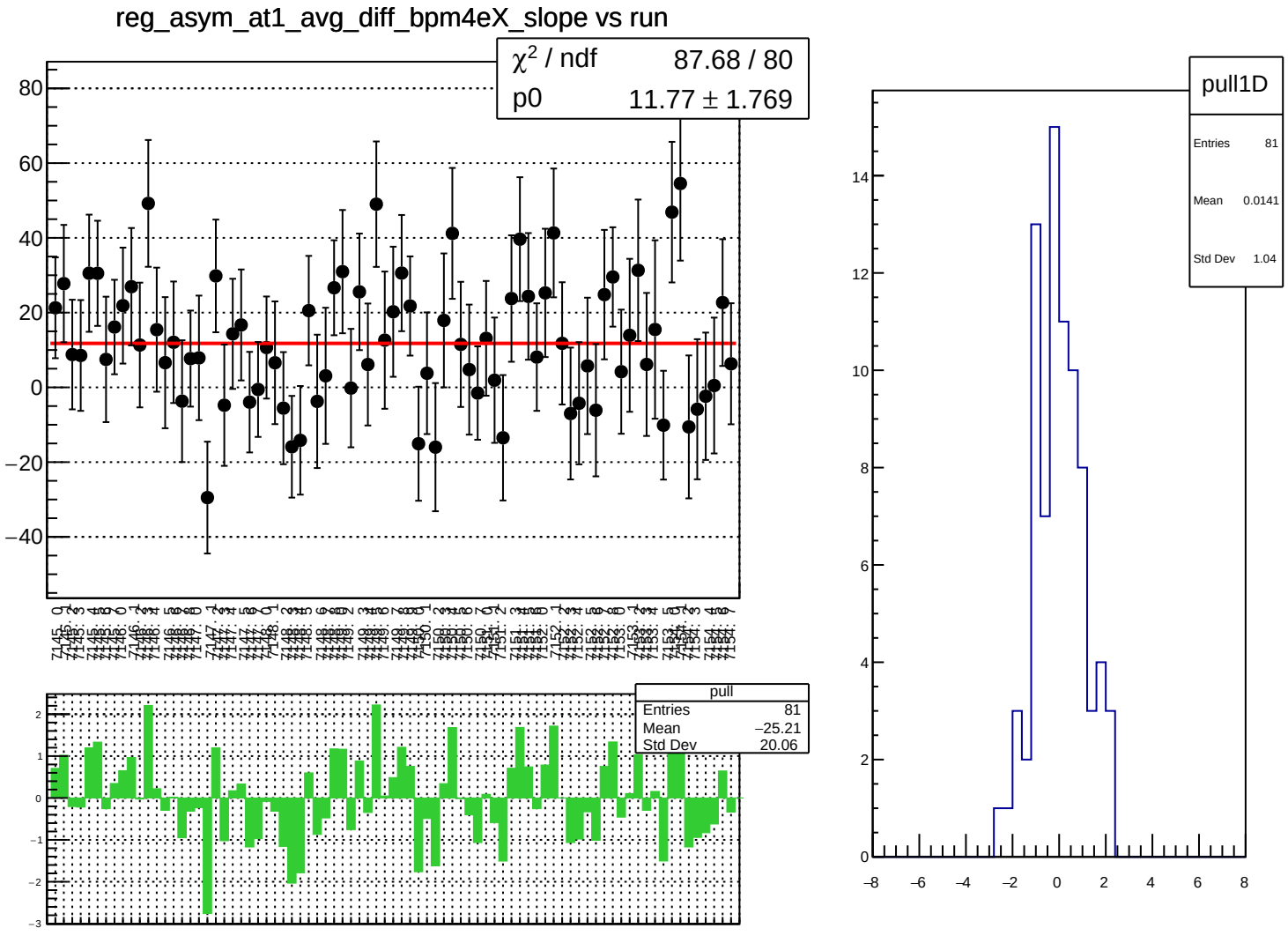

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 24.87 / 80
p0 120.3 ± 0.1916
124
122
120
118
116
pull
Entries 81
Mean 214.5
Std Dev 172.3
1
0.5
0
−0.5
−1

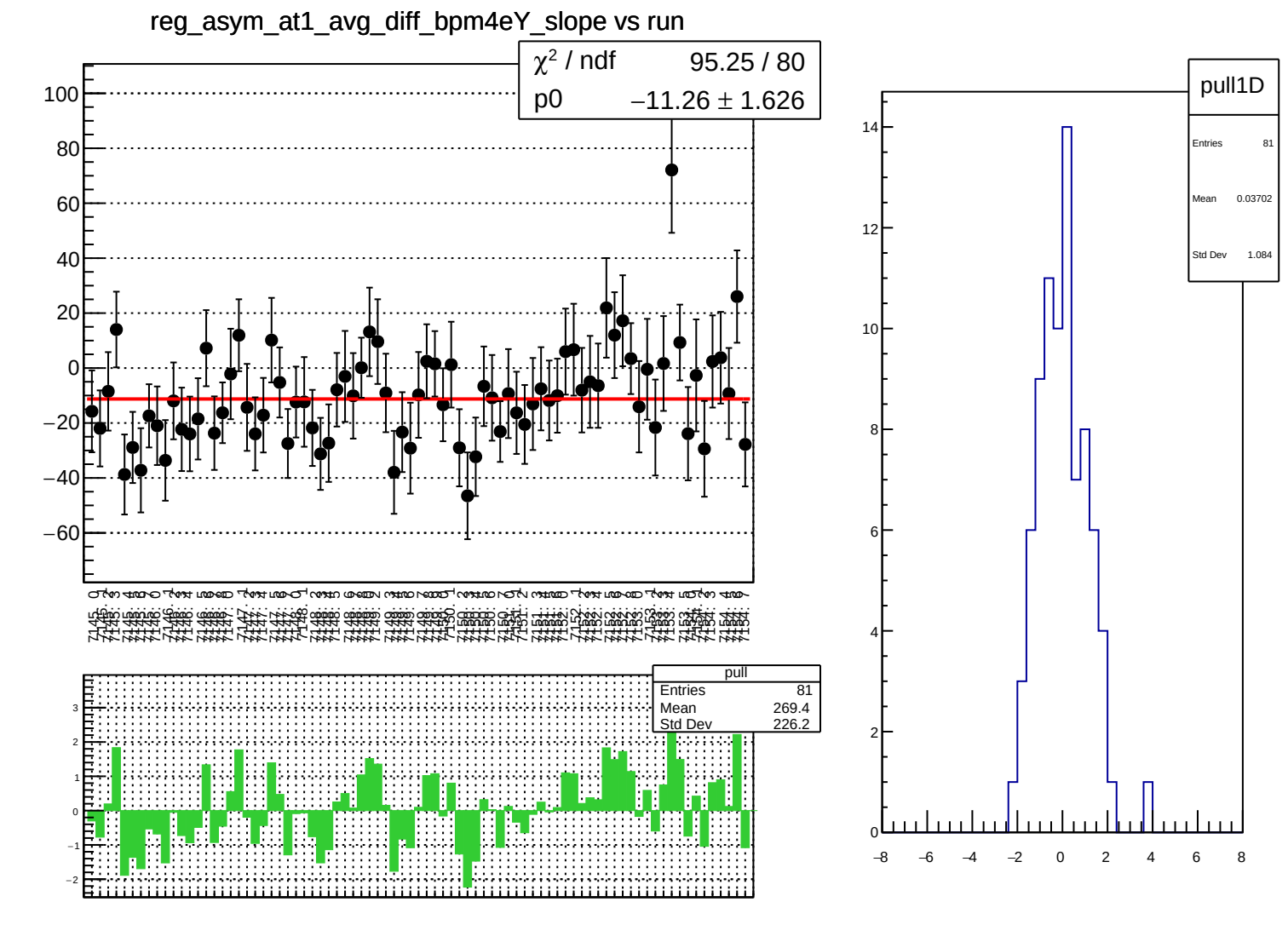

pull1D
Entries 81
Mean −0.04481
Std Dev 0.5523
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

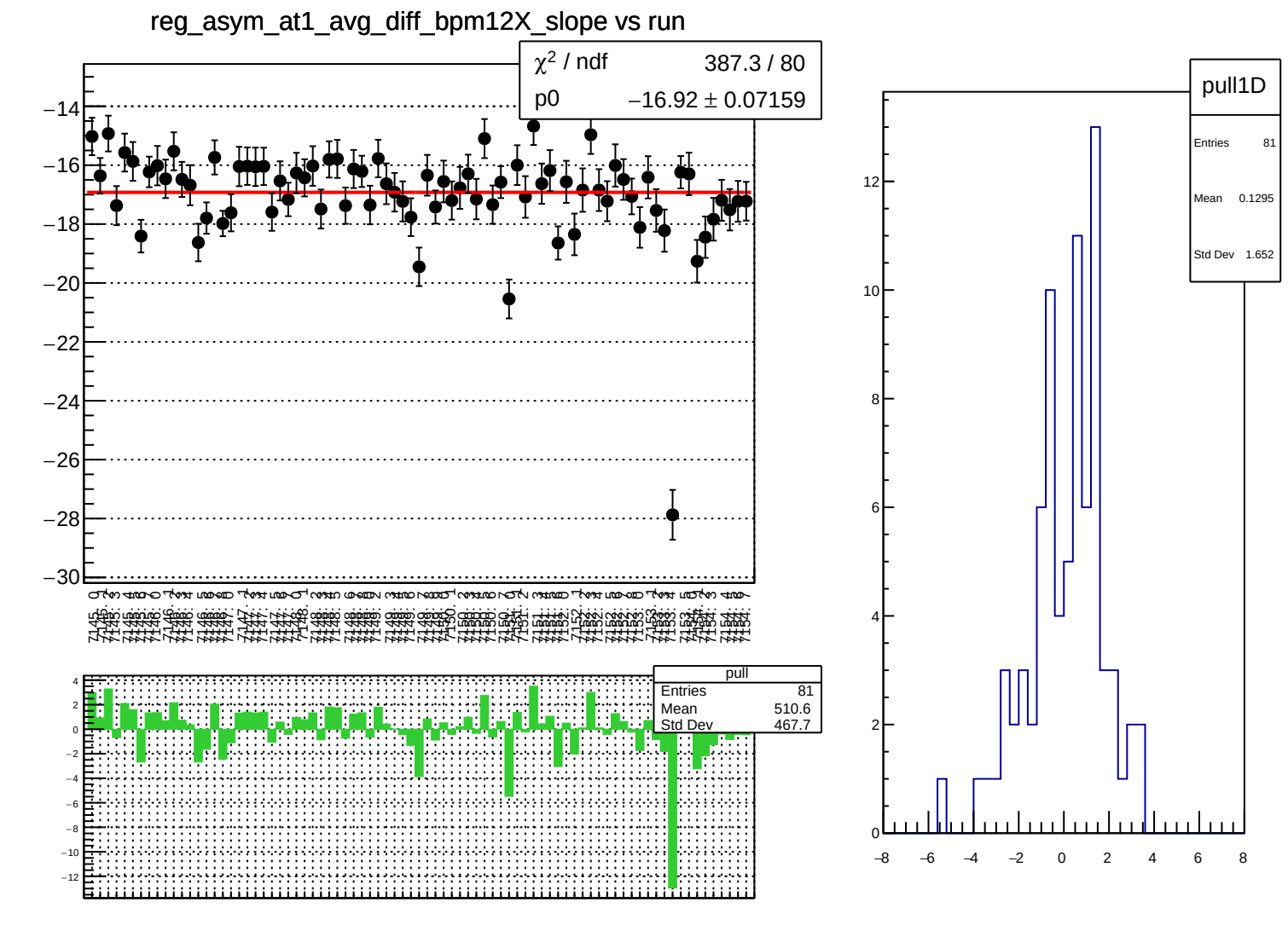

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 89.82 / 80
p0 −21.84 ± 1.728
pull
Entries 81
Mean −93.17
Std Dev 111.9

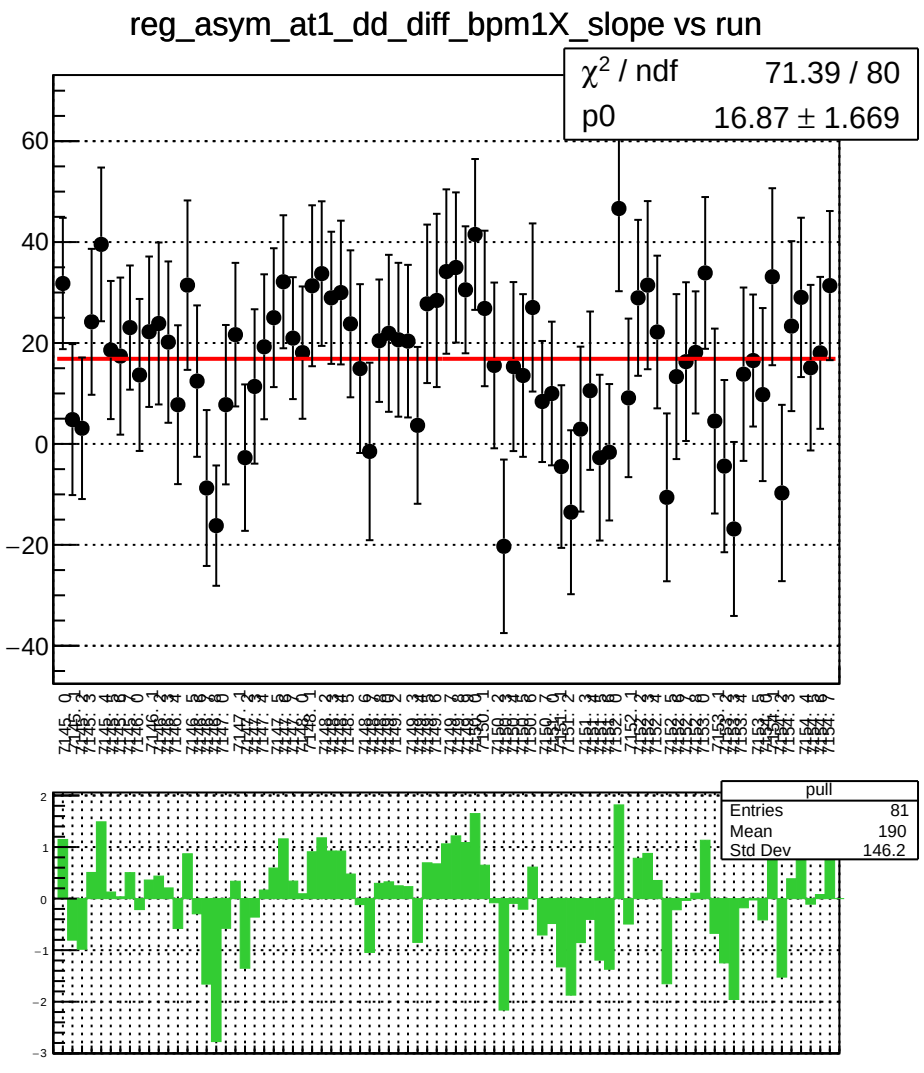

pull1D
Entries 81
Mean −0.01261
Std Dev 1.053

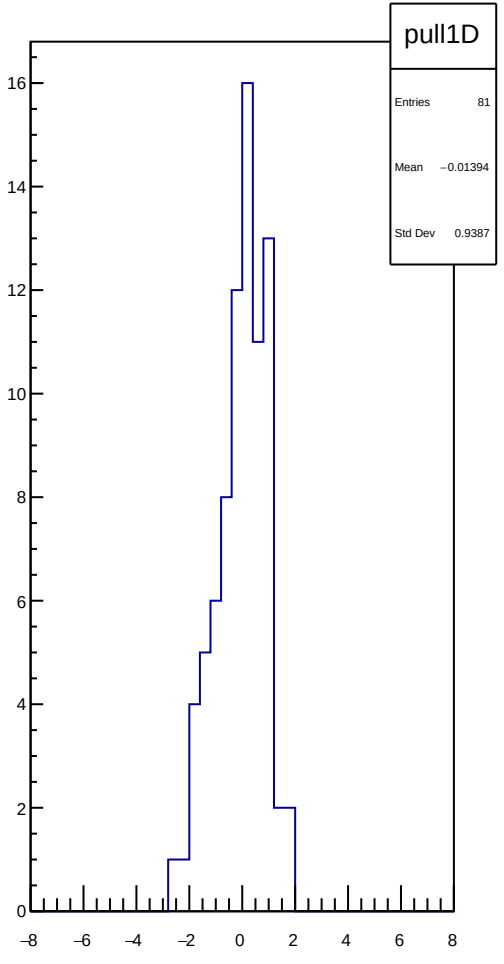

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 89.58 / 80
p0 4.045 ± 1.49
pull
Entries 81
Mean 210.8
Std Dev 167.4
pull1D
Entries 81
Mean −0.02777
Std Dev 1.051

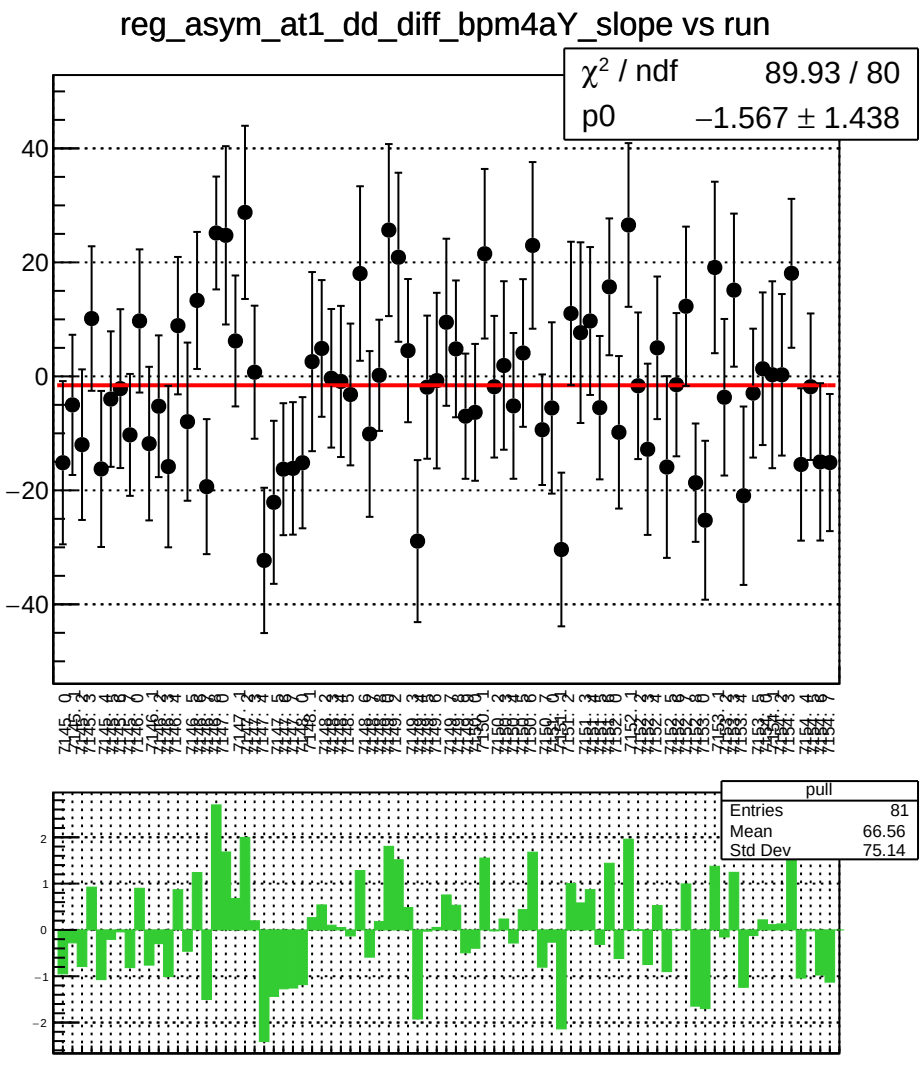

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 87.68 / 80
p0 11.77 ± 1.769
pull
Entries 81
Mean −25.21
Std Dev 20.06
pull1D
Entries 81
Mean 0.0141
Std Dev 1.04

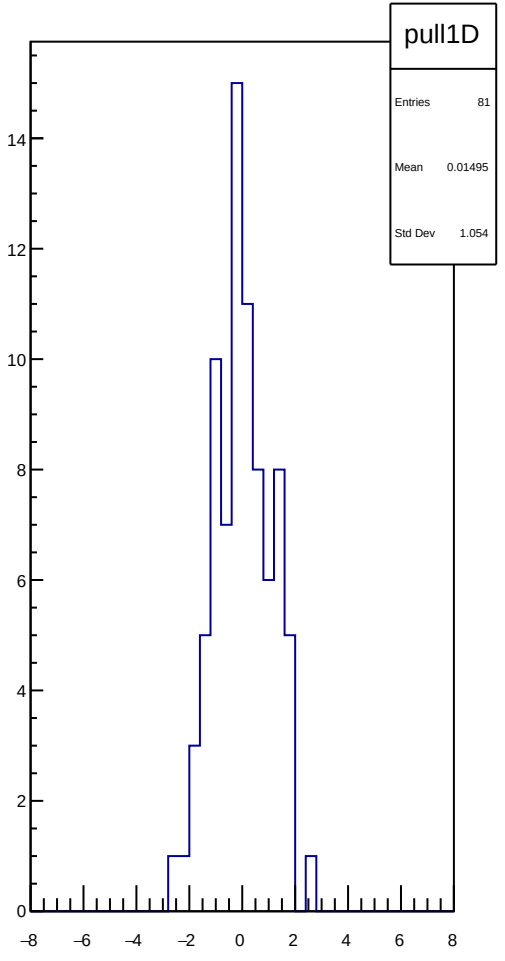

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 95.25 / 80
p0 −11.26 ± 1.626
pull
Entries 81
Mean 269.4
Std Dev 226.2
pull1D
Entries 81
Mean 0.03702
Std Dev 1.084

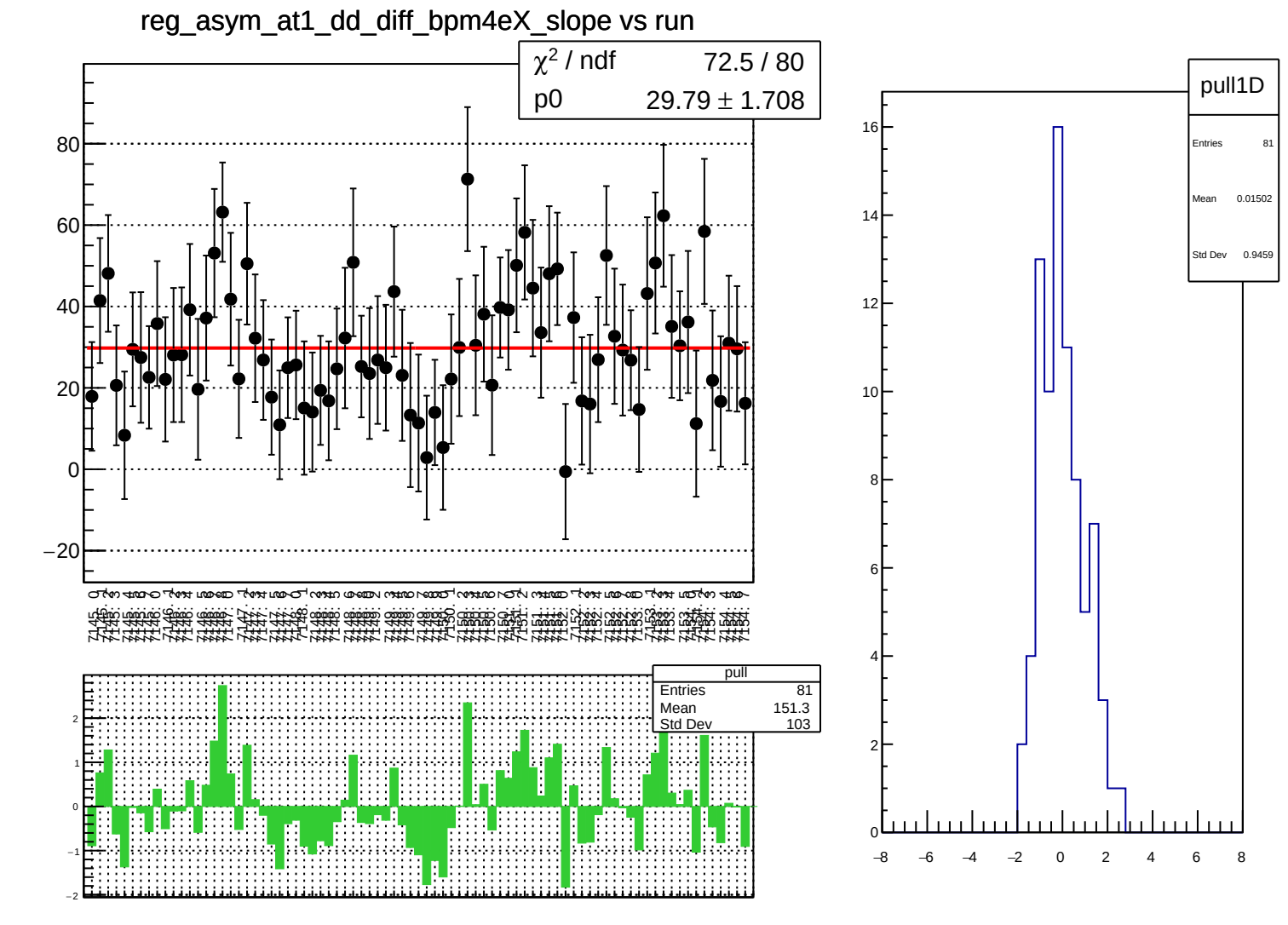

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 387.3 / 80
p0 −16.92 ± 0.07159
pull
Entries 81
Mean 510.6
Std Dev 467.7
pull1D
Entries 81
Mean 0.1295
Std Dev 1.652

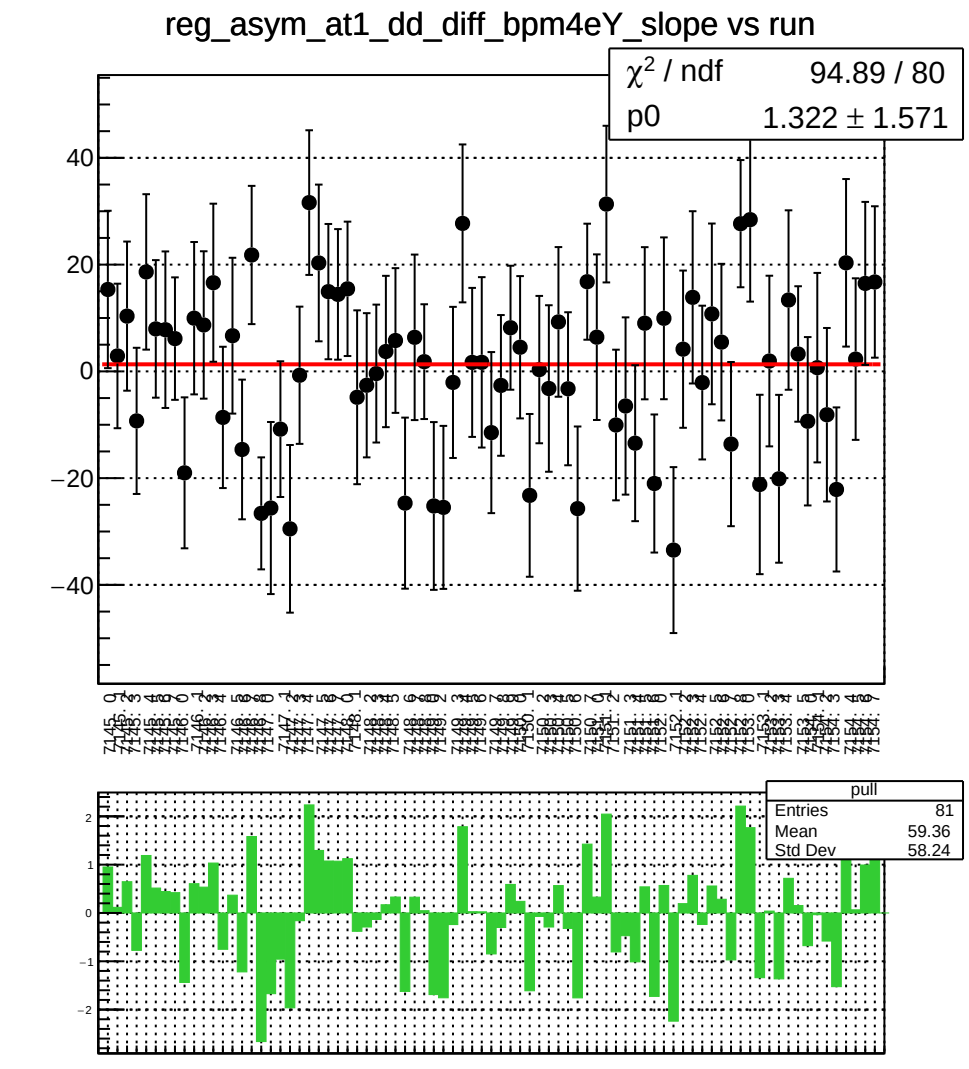

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ^2 / ndf 71.39 / 80
p0 16.87 ± 1.669
pull
Entries 81
Mean 190
Std Dev 146.2

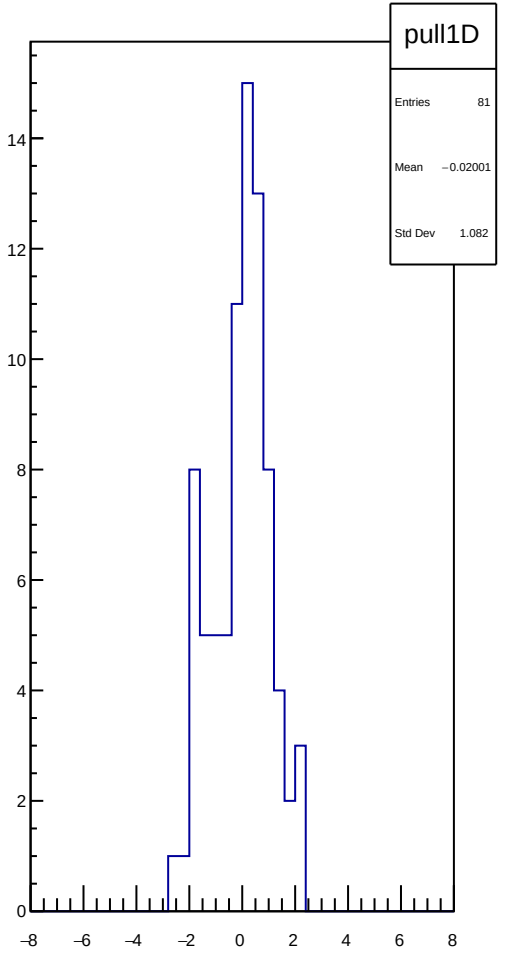

pull1D
Entries 81
Mean −0.01394
Std Dev 0.9387

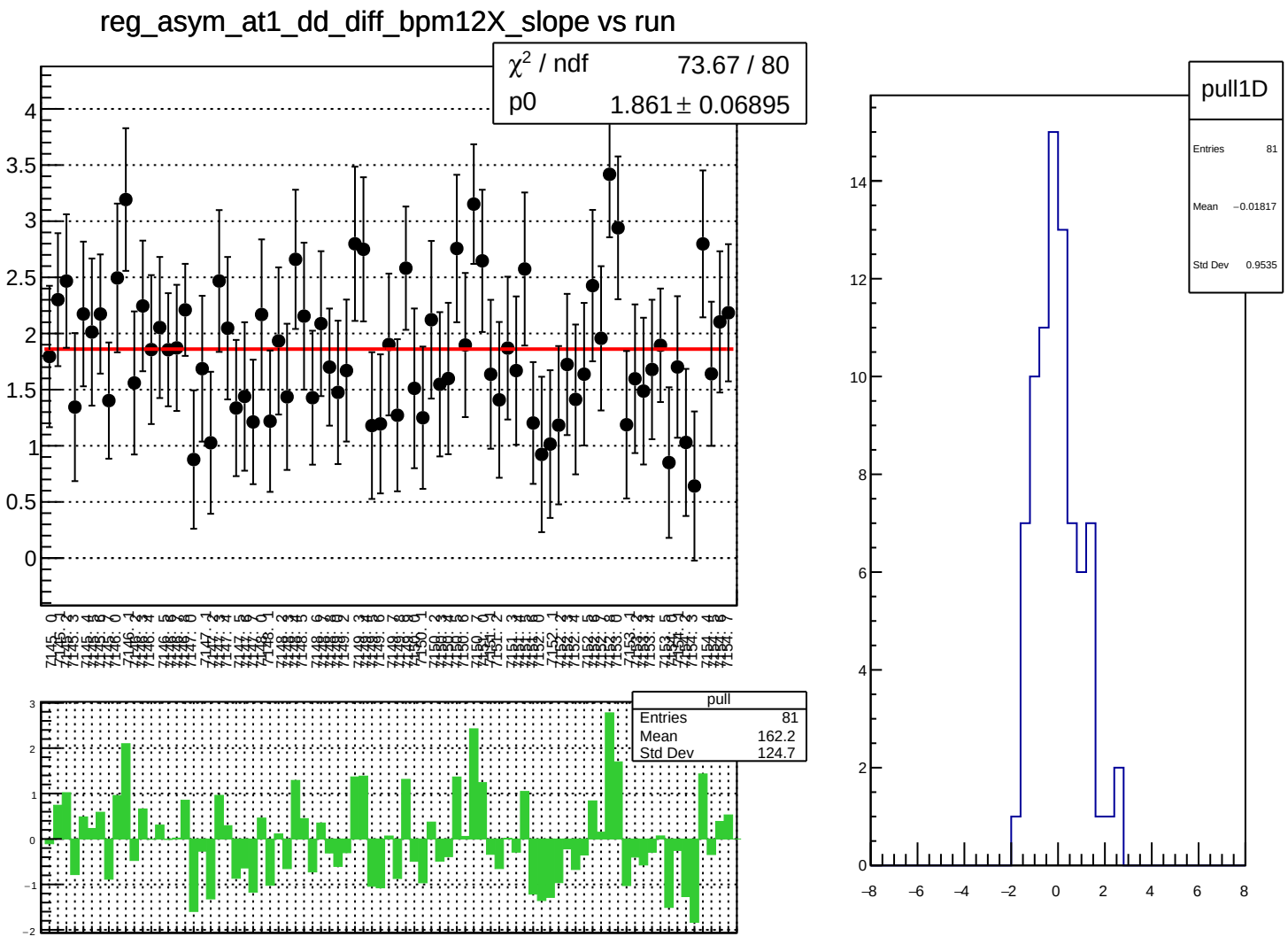

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 89.93 / 80
p0 −1.567 ± 1.438
pull
Entries 81
Mean 66.56
Std Dev 75.14

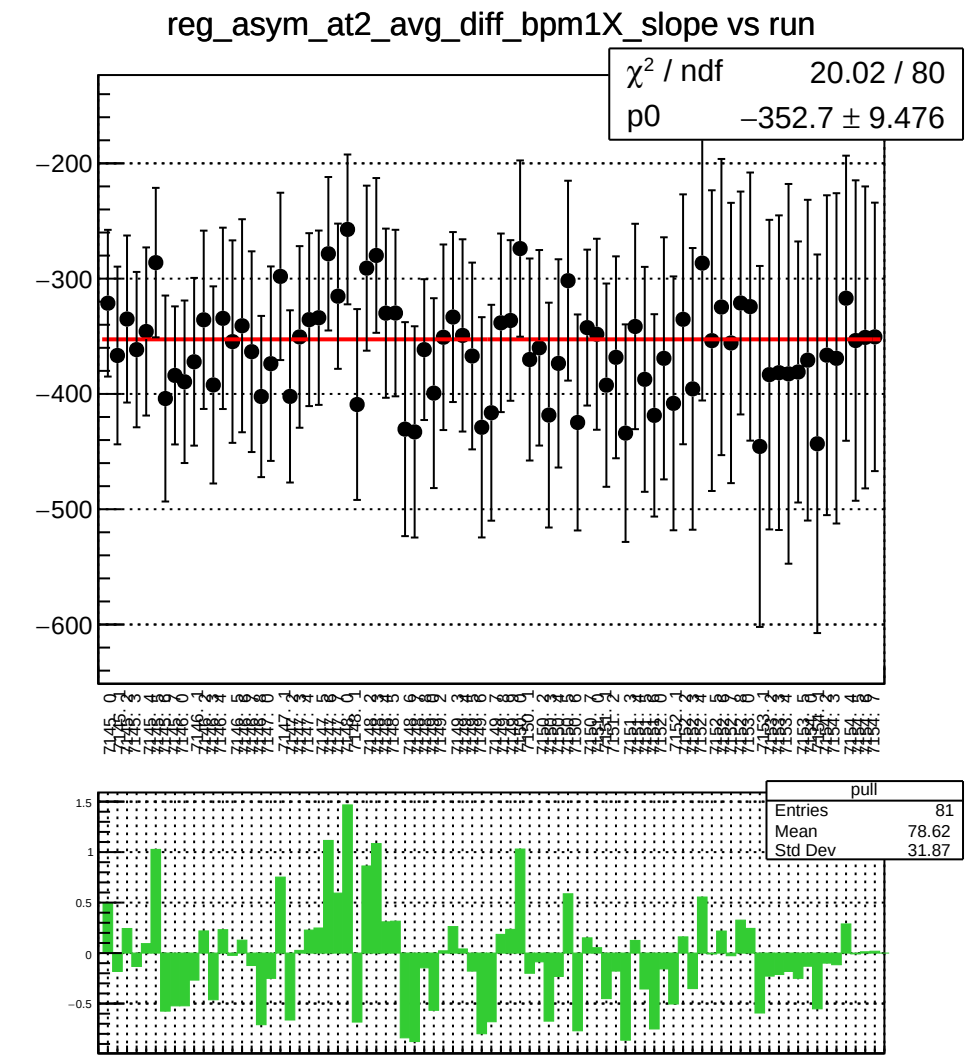

pull1D
Entries 81
Mean 0.01495
Std Dev 1.054

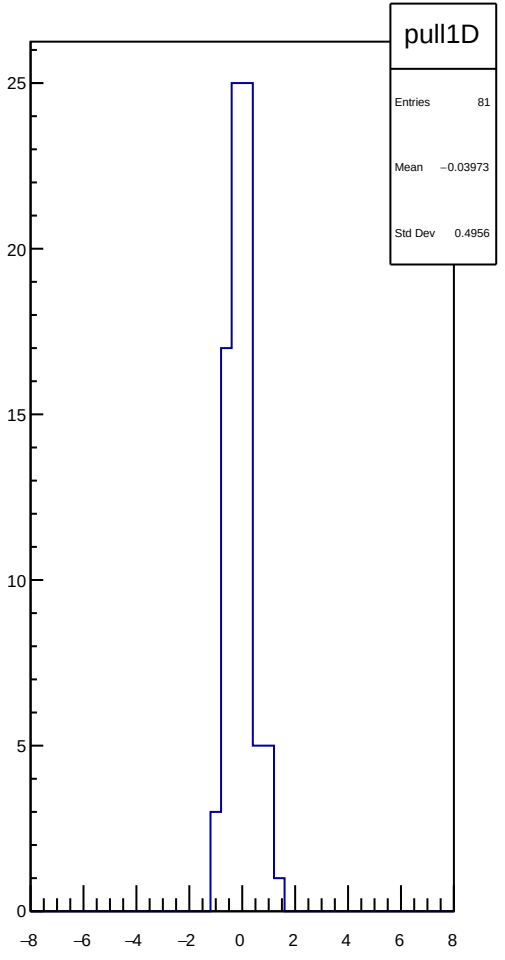

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.5 / 80
p0 29.79 ± 1.708
pull
Entries 81
Mean 151.3
Std Dev 103
pull1D
Entries 81
Mean 0.01502
Std Dev 0.9459

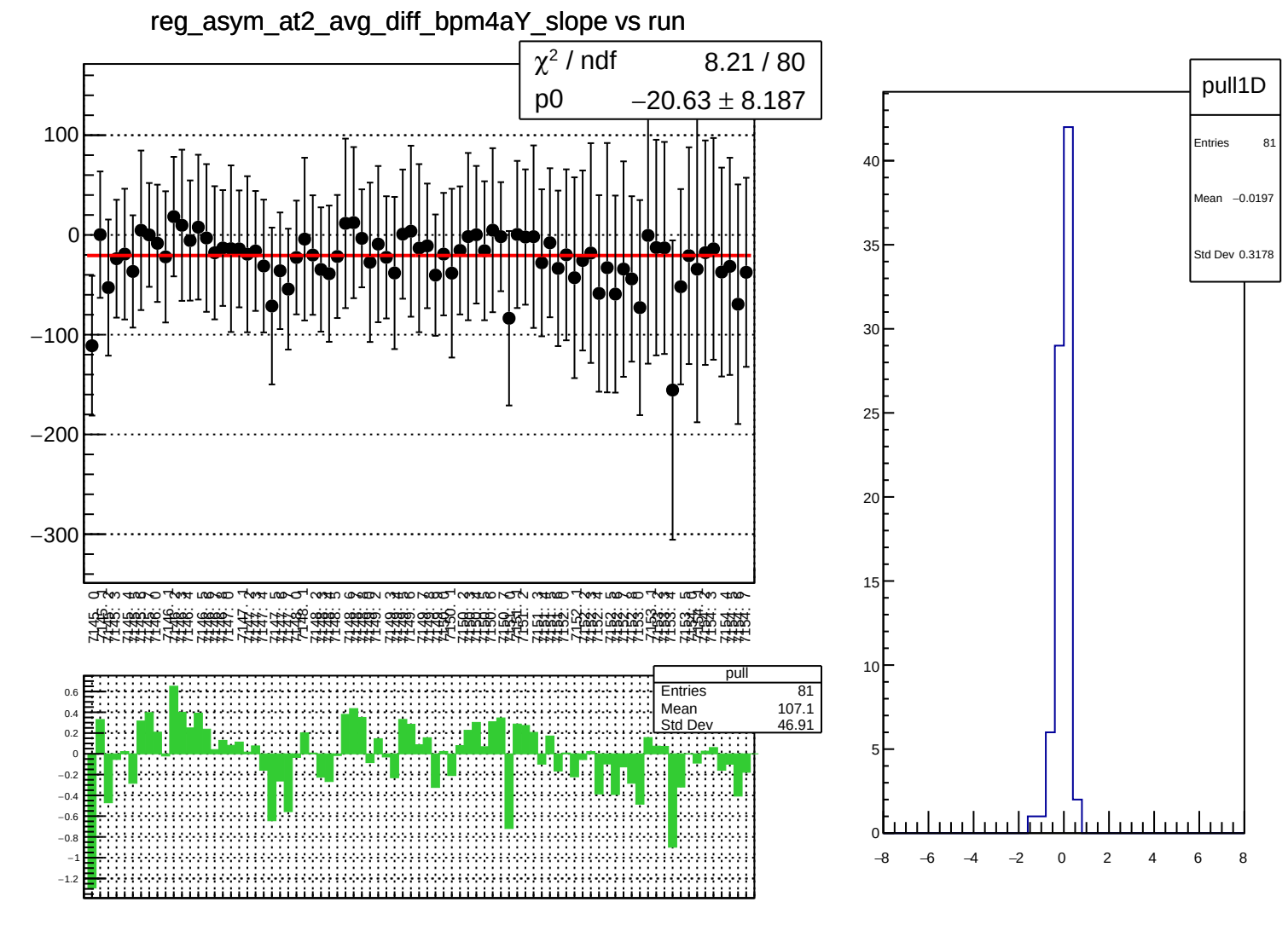

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 94.89 / 80
p0 1.322 ± 1.571
pull
Entries 81
Mean 59.36
Std Dev 58.24

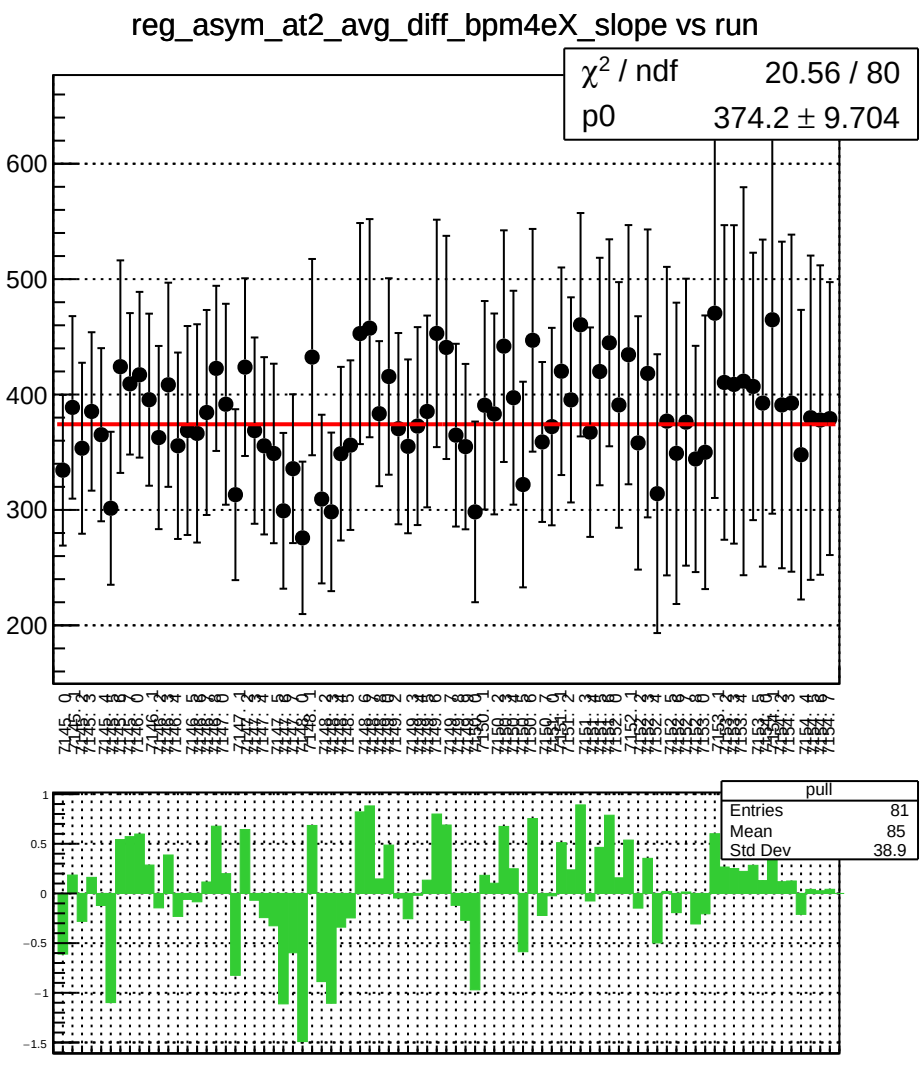

pull1D
Entries 81
Mean −0.02001
Std Dev 1.082

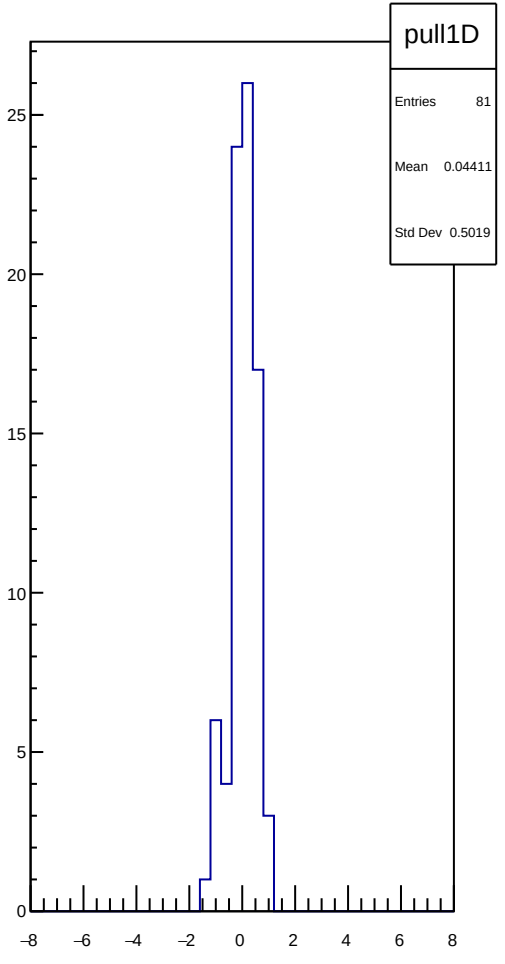

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 73.67 / 80
p0 1.861 ± 0.06895
pull
Entries 81
Mean 162.2
Std Dev 124.7
pull1D
Entries 81
Mean −0.01817
Std Dev 0.9535

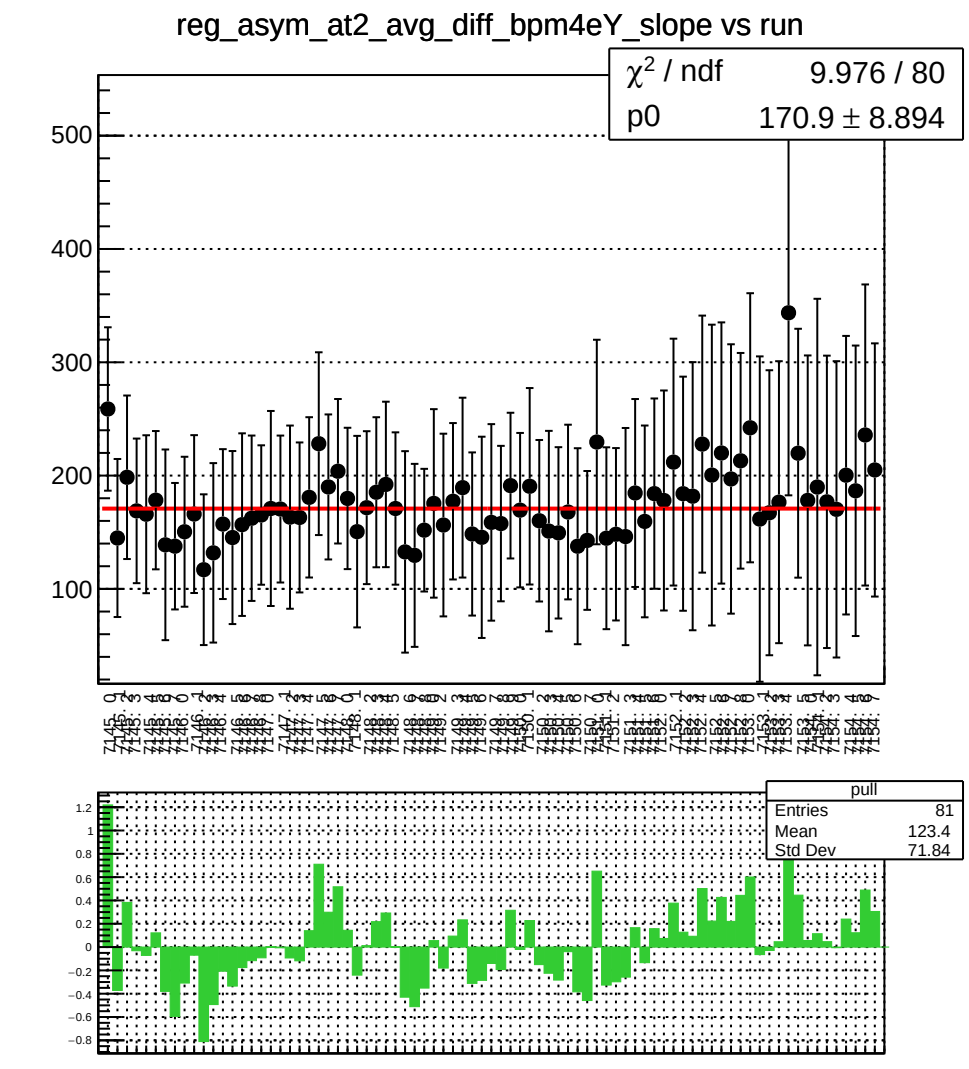

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 20.02 / 80
p0 −352.7 ± 9.476
pull
Entries 81
Mean 78.62
Std Dev 31.87

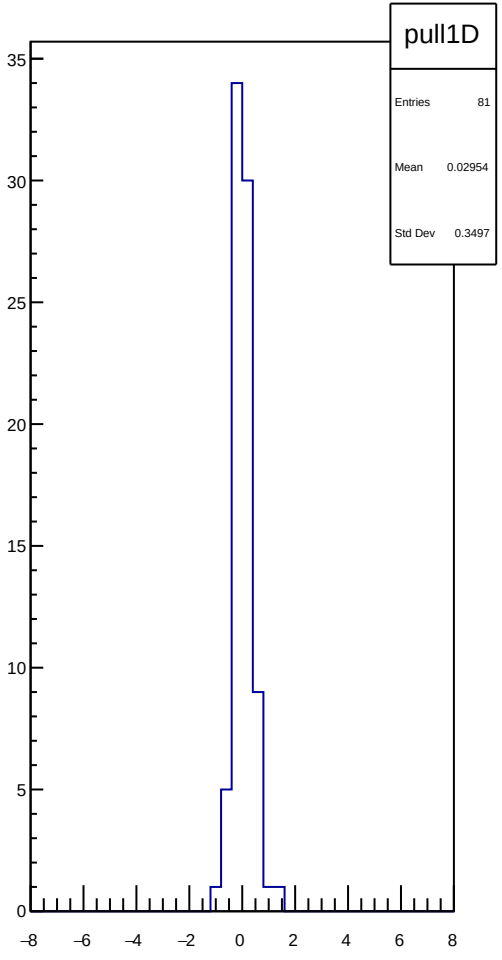

pull1D
Entries 81
Mean −0.03973
Std Dev 0.4956

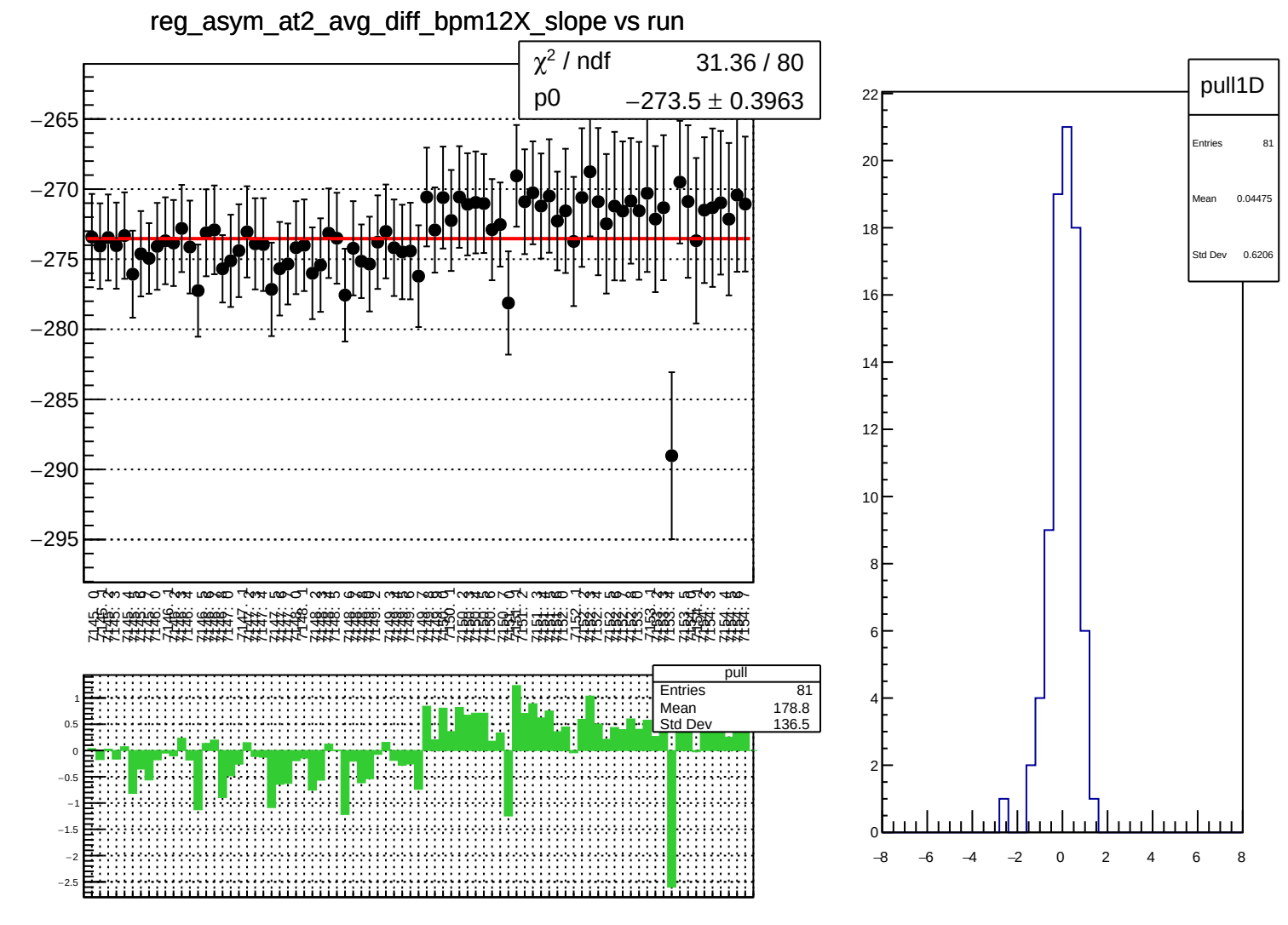

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.21 / 80
p0 −20.63 ± 8.187
pull
Entries 81
Mean 107.1
Std Dev 46.91
pull1D
Entries 81
Mean −0.0197
Std Dev 0.3178

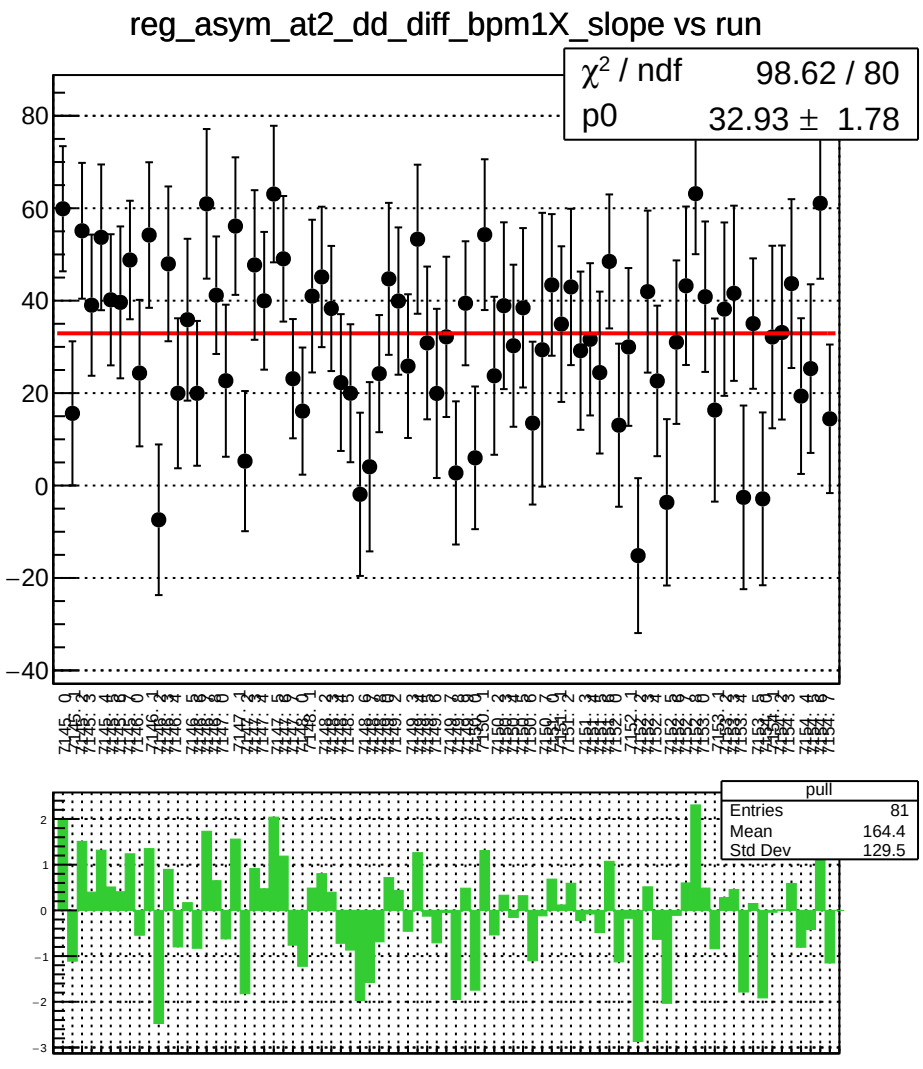

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 20.56 / 80
p0 374.2 ± 9.704
pull
Entries 81
Mean 85
Std Dev 38.9

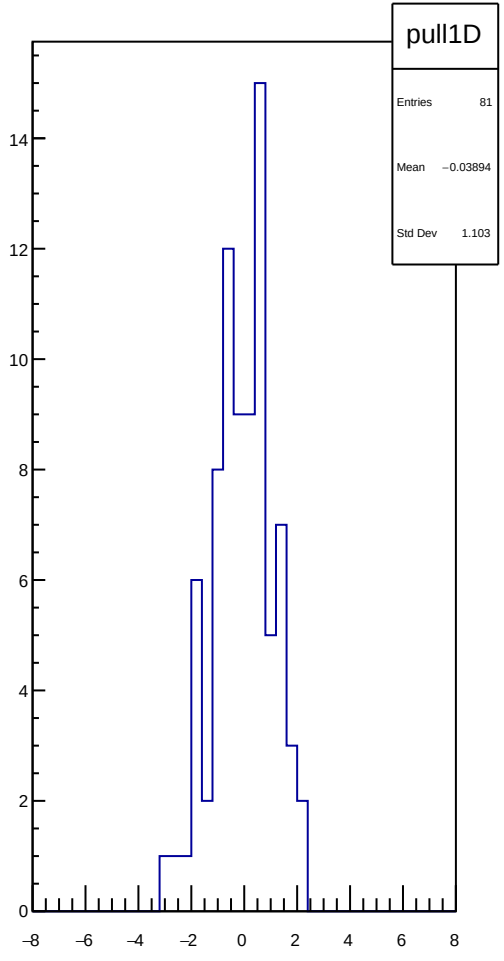

pull1D
Entries 81
Mean 0.04411
Std Dev 0.5019

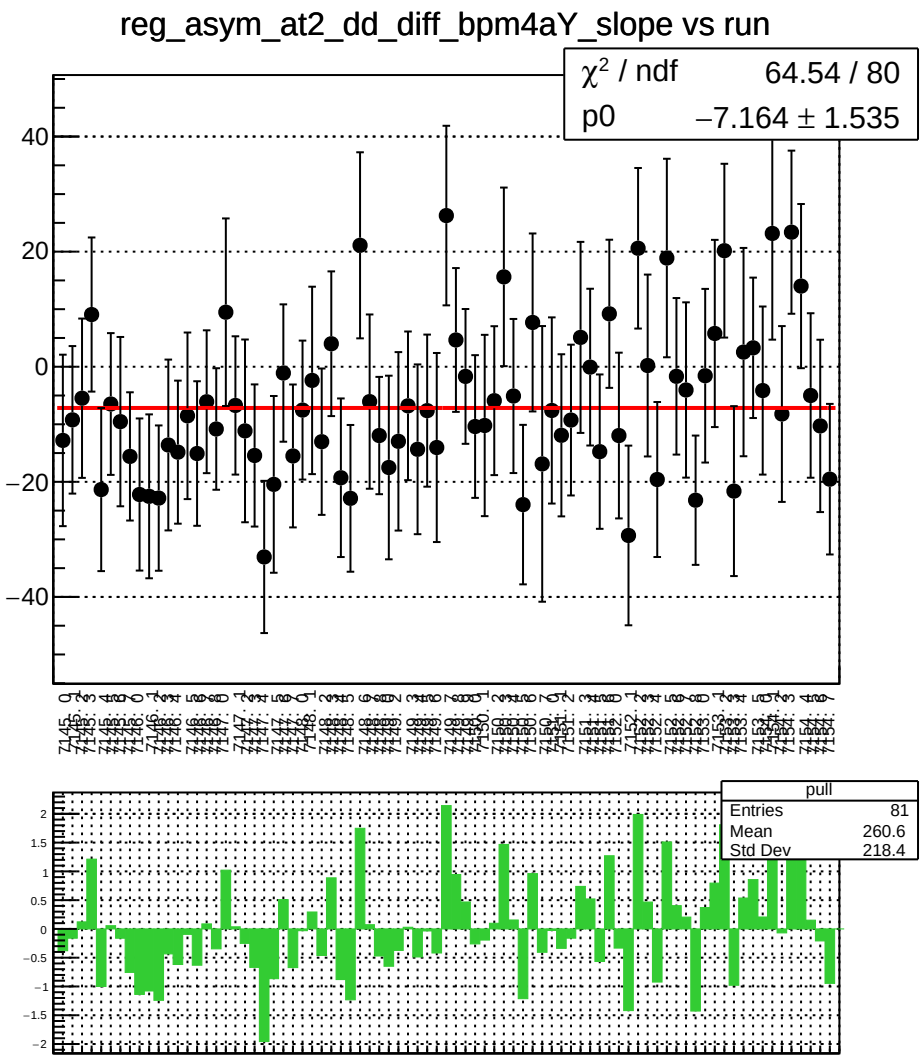

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.976 / 80
p0 170.9 ± 8.894
pull
Entries 81
Mean 123.4
Std Dev 71.84

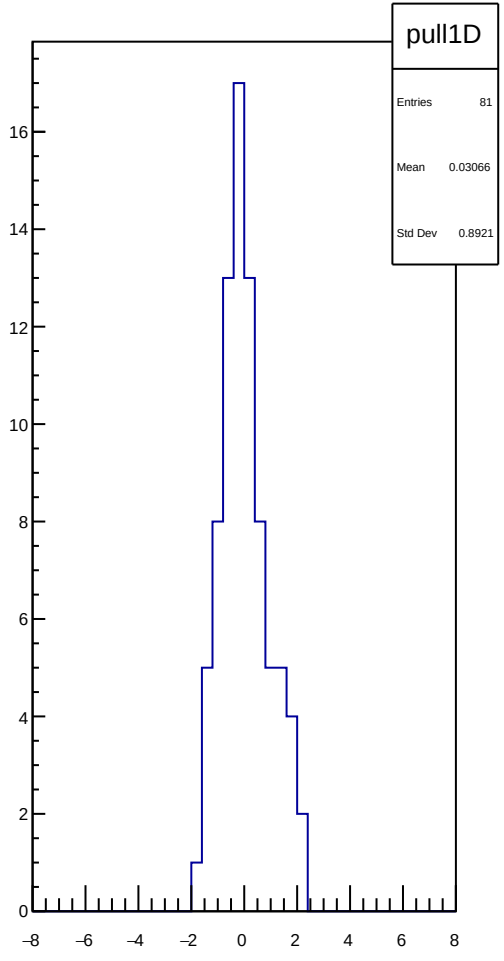

pull1D
Entries 81
Mean 0.02954
Std Dev 0.3497

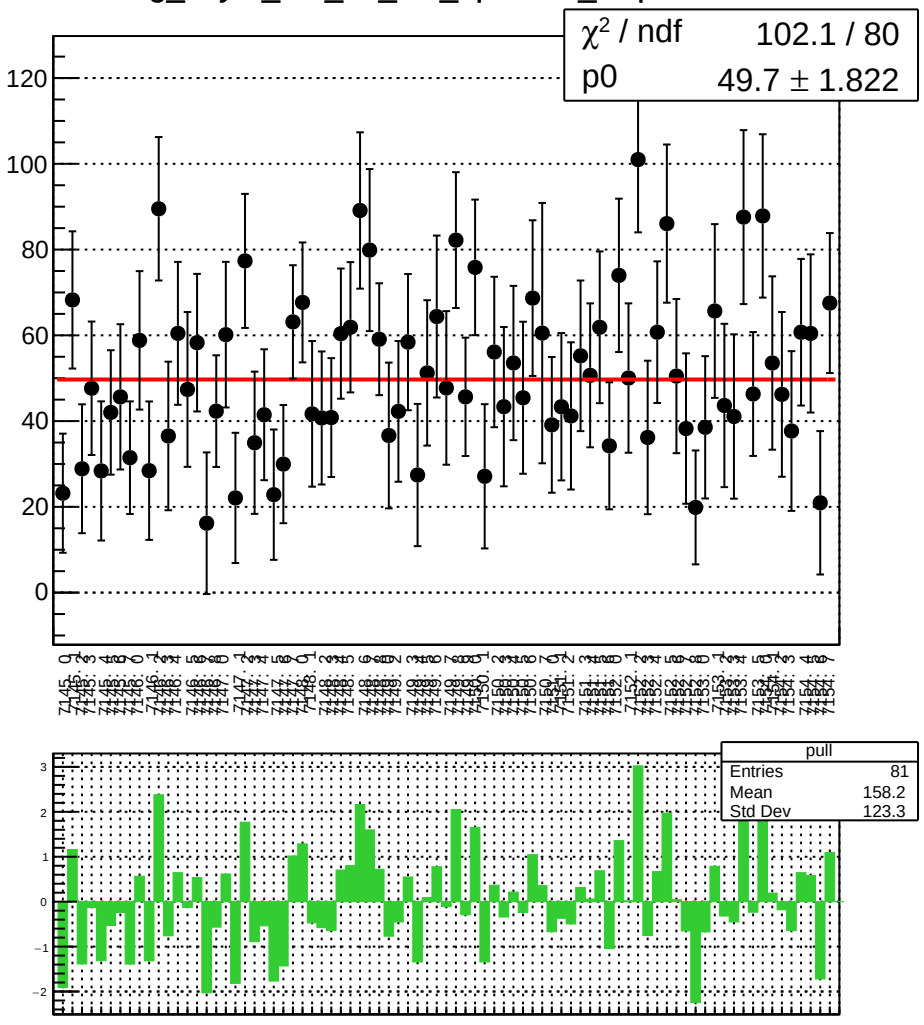

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 31.36 / 80
p0 −273.5 ± 0.3963
pull
Entries 81
Mean 178.8
Std Dev 136.5
pull1D
Entries 81
Mean 0.04475
Std Dev 0.6206

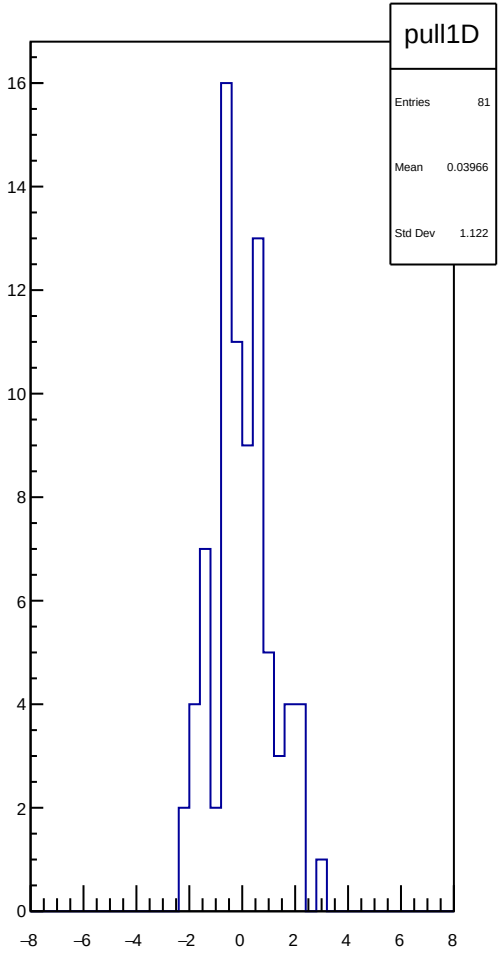

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 98.62 / 80
p0 32.93 ± 1.78
pull
Entries 81
Mean 164.4
Std Dev 129.5

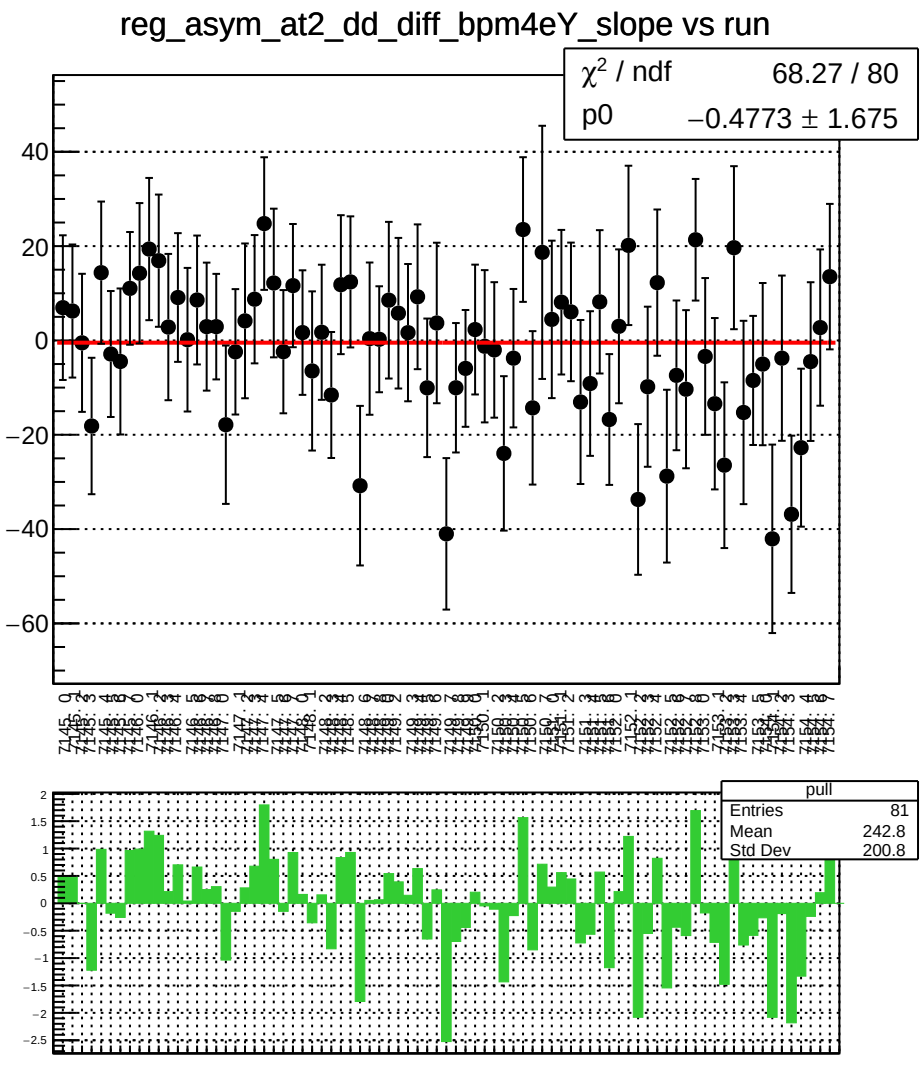

pull1D
Entries 81
Mean −0.03894
Std Dev 1.103

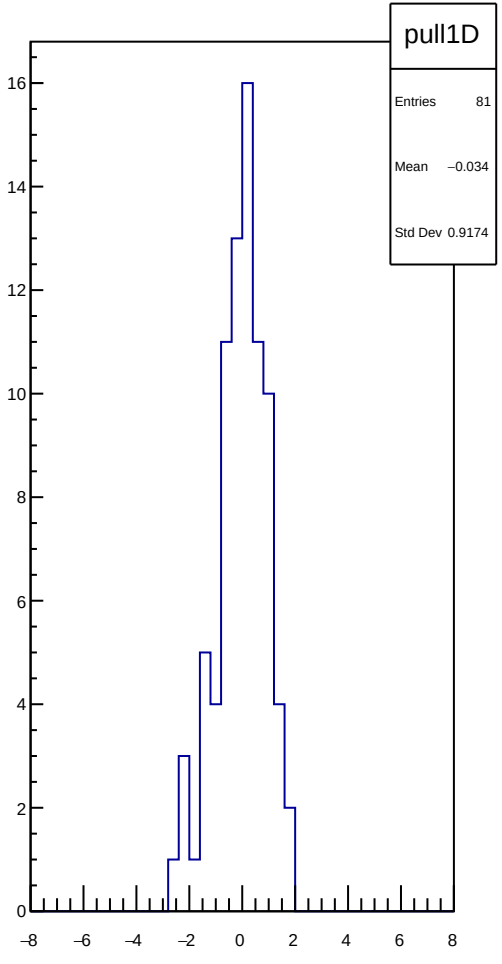

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.54 / 80
p0 −7.164 ± 1.535
40
20
0
−20
−40
pull
Entries 81
Mean 260.6
Std Dev 218.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

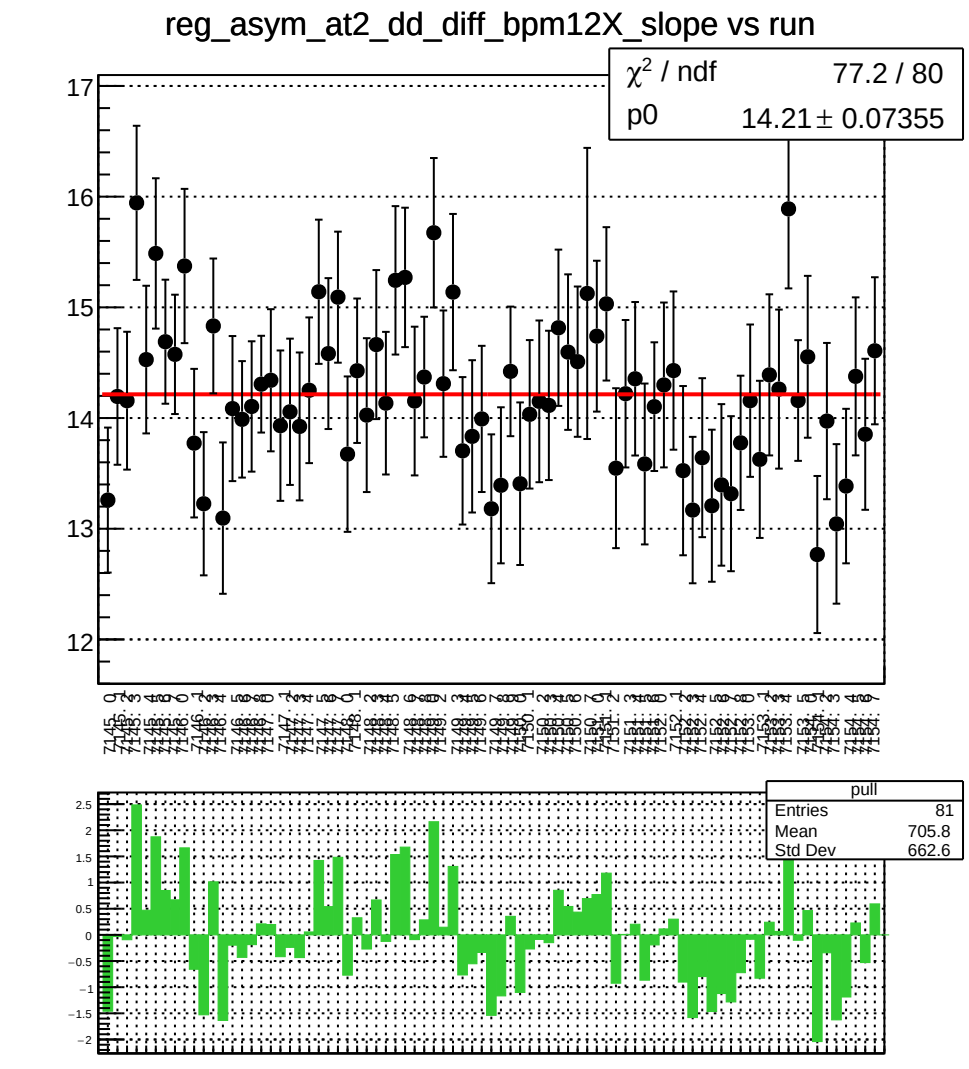

pull1D
Entries 81
Mean 0.03066
Std Dev 0.8921
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

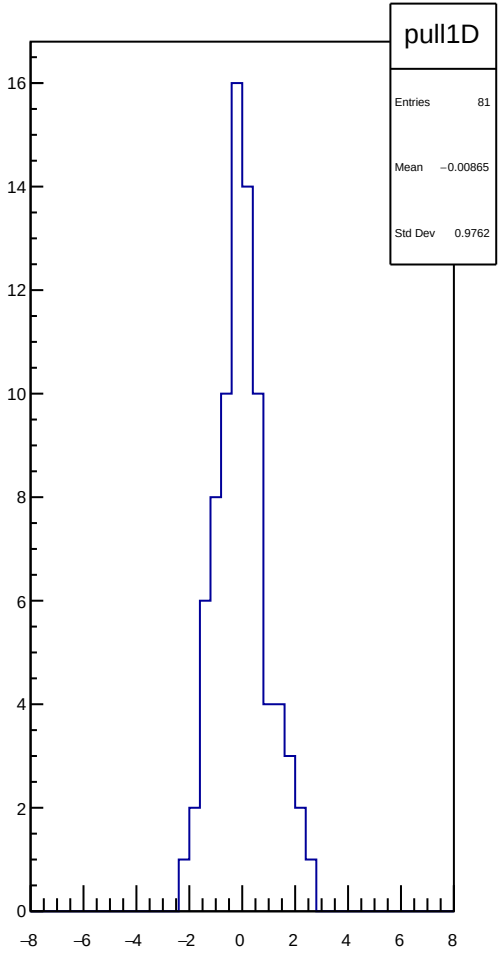

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 102.1 / 80
p0 49.7 ± 1.822
pull
Entries 81
Mean 158.2
Std Dev 123.3

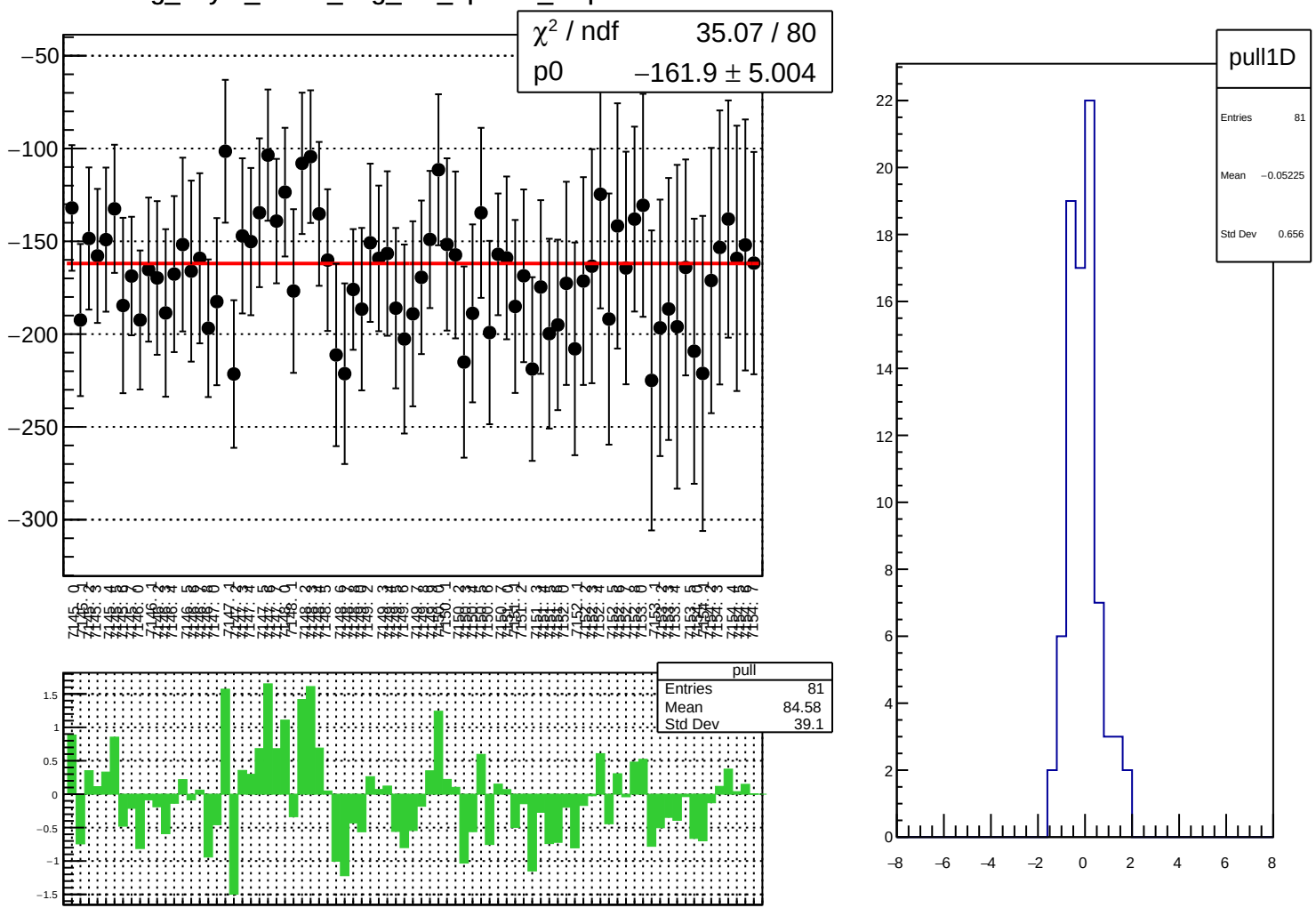

pull1D
Entries 81
Mean 0.03966
Std Dev 1.122

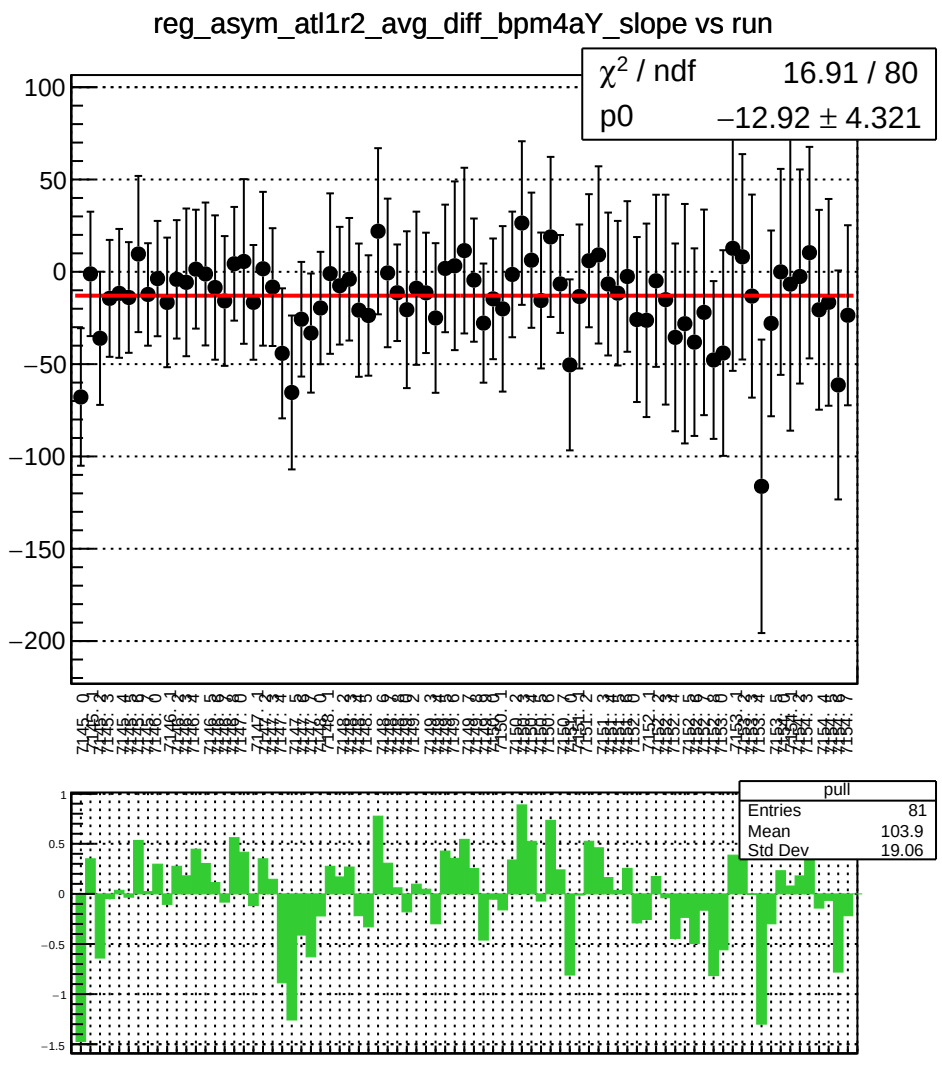

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 68.27 / 80
p0 −0.4773 ± 1.675
pull
Entries 81
Mean 242.8
Std Dev 200.8

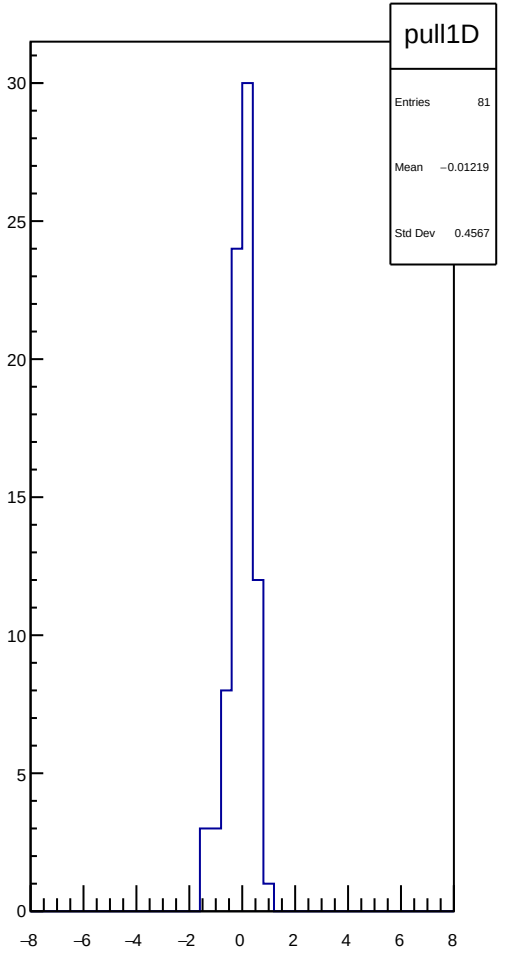

pull1D
Entries 81
Mean −0.034
Std Dev 0.9174

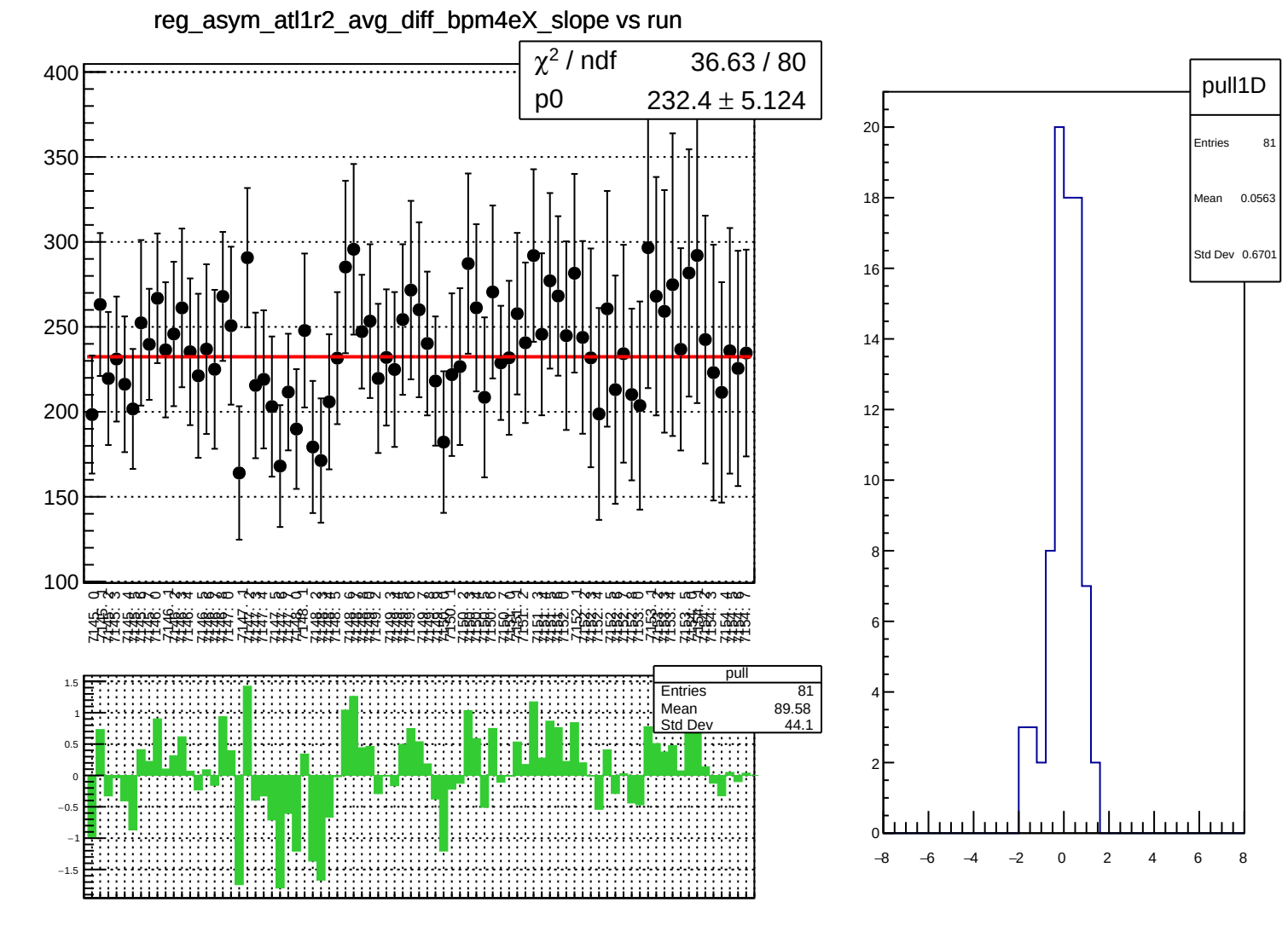

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 77.2 / 80
p0 14.21 ± 0.07355
pull
Entries 81
Mean 705.8
Std Dev 662.6

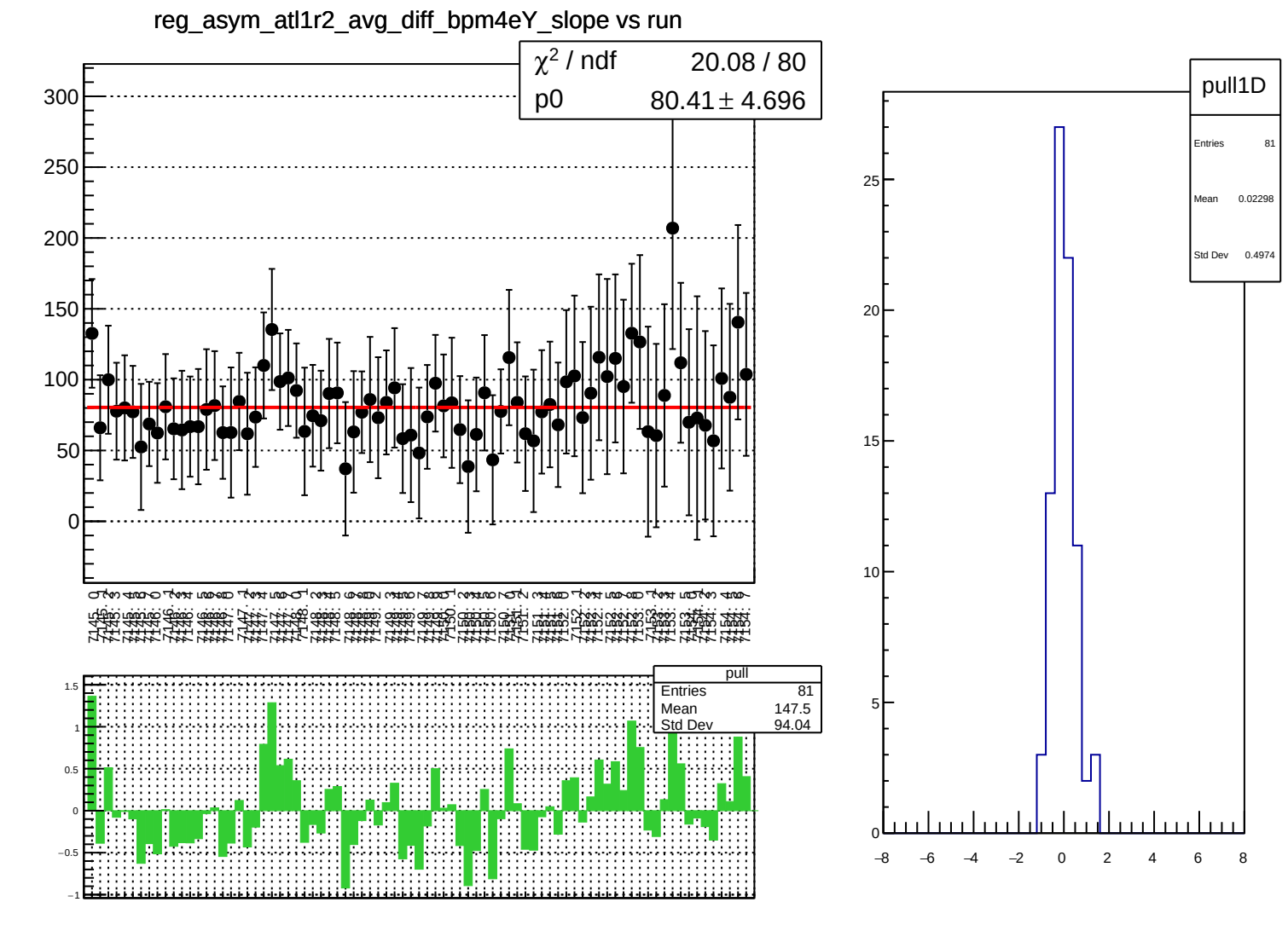

pull1D
Entries 81
Mean −0.00865
Std Dev 0.9762

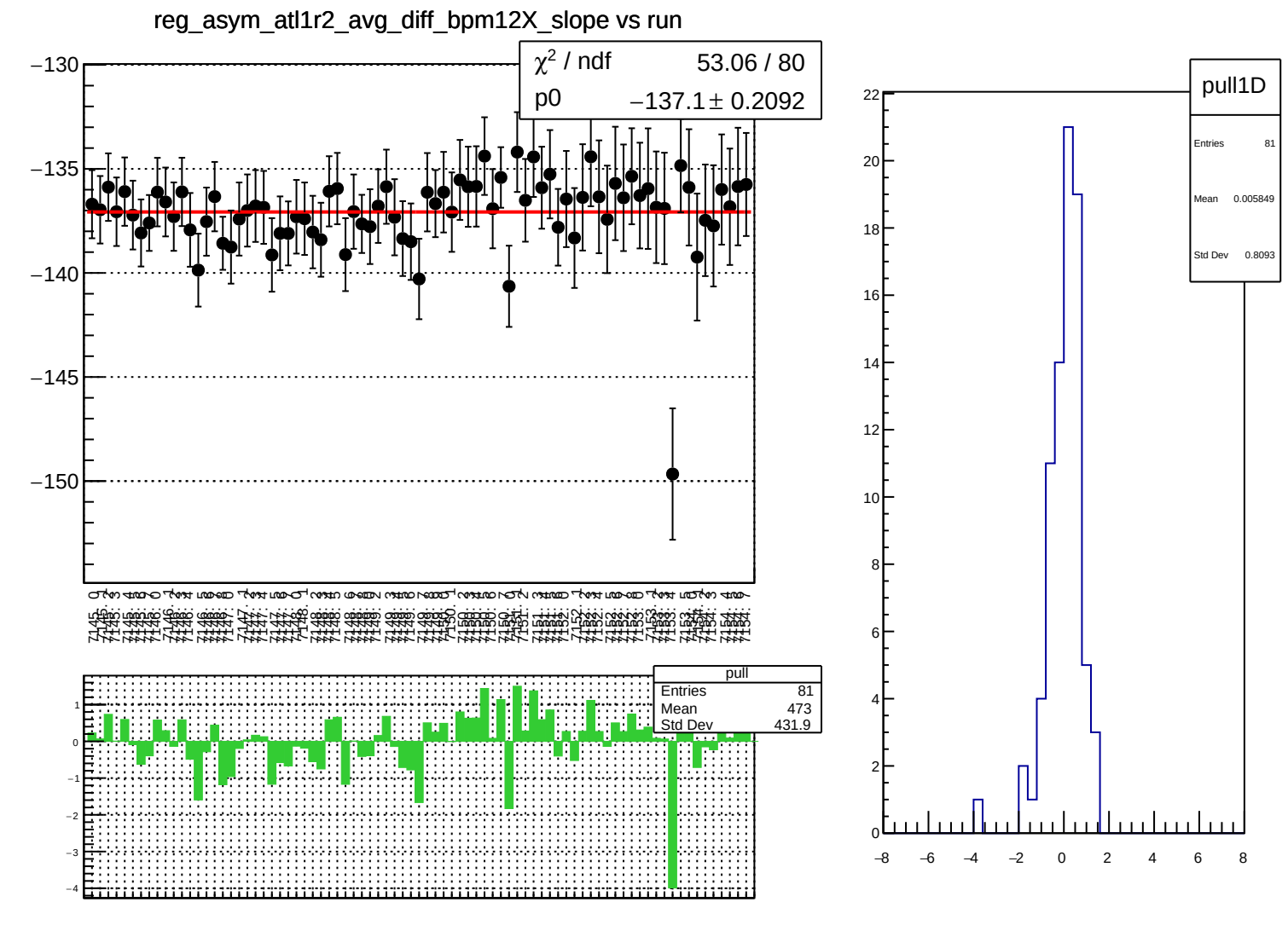

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 35.07 / 80
p0 −161.9 ± 5.004
pull
Entries 81
Mean 84.58
Std Dev 39.1
pull1D
Entries 81
Mean −0.05225
Std Dev 0.656

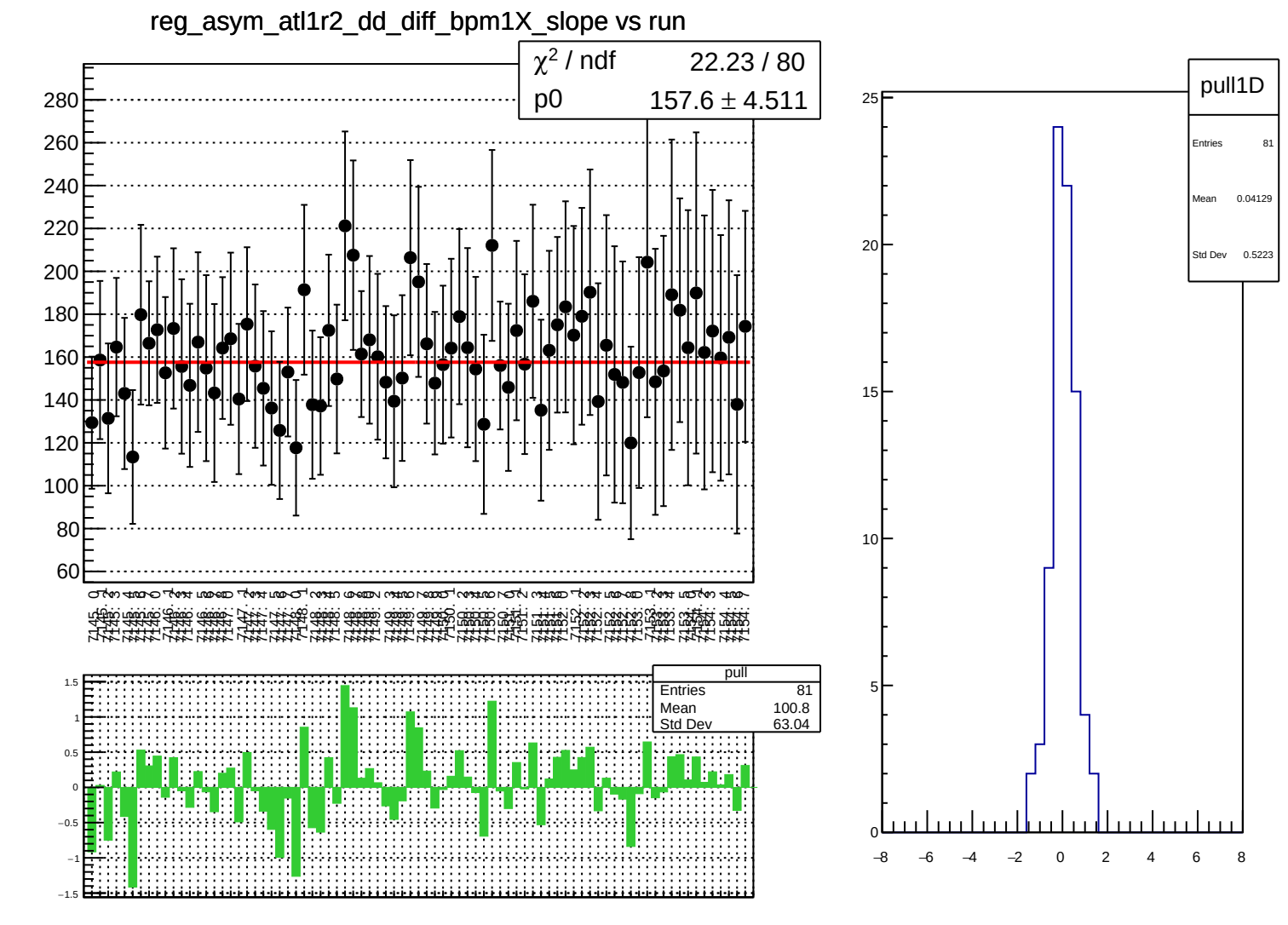

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.91 / 80
p0 −12.92 ± 4.321
pull
Entries 81
Mean 103.9
Std Dev 19.06

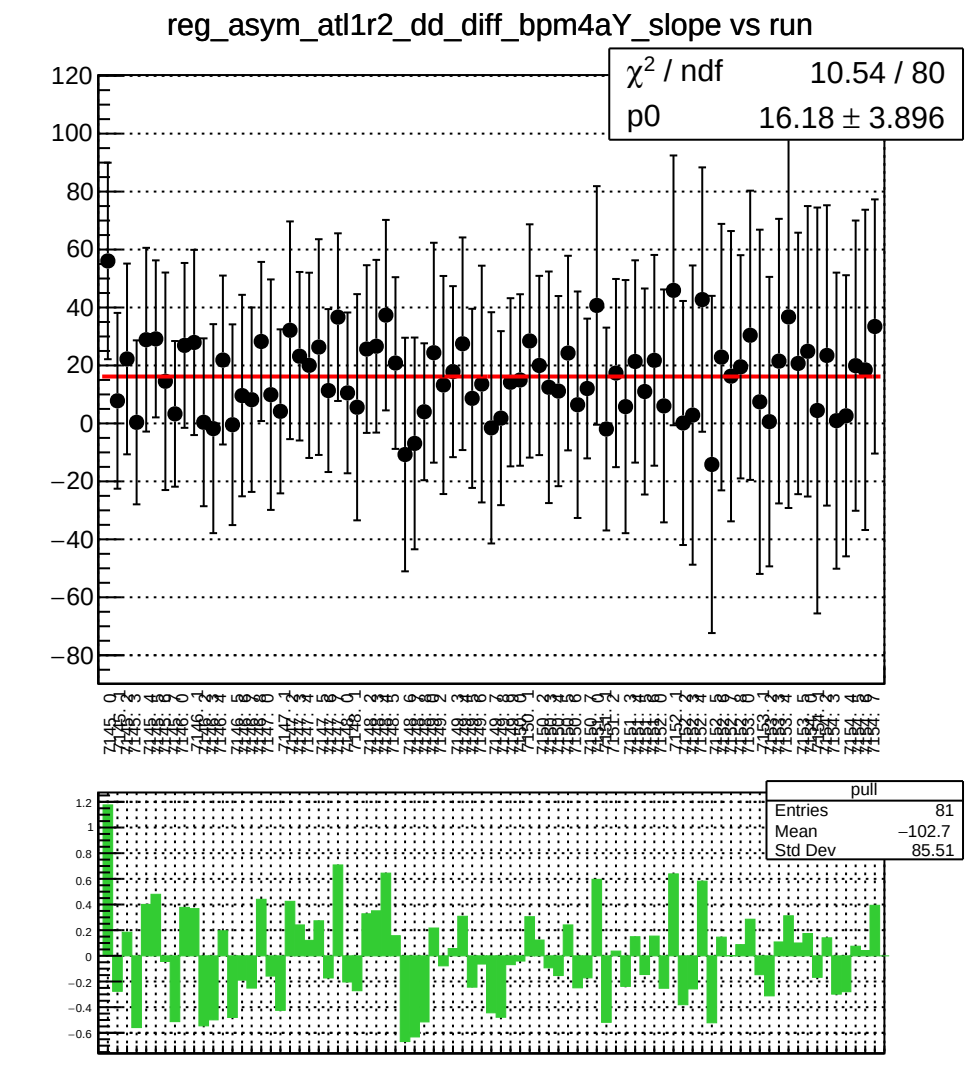

pull1D
Entries 81
Mean −0.01219
Std Dev 0.4567

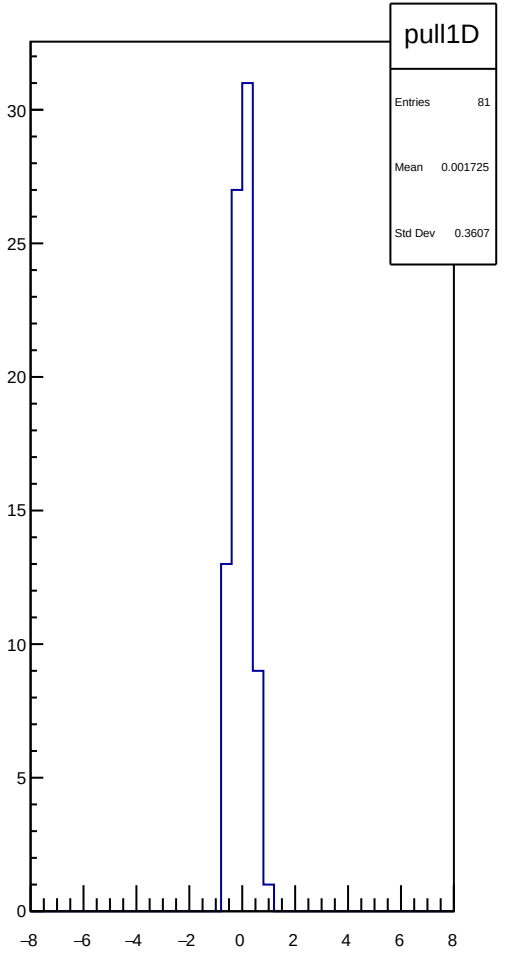

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.63 / 80
p0 232.4 ± 5.124
pull
Entries 81
Mean 89.58
Std Dev 44.1
pull1D
Entries 81
Mean 0.0563
Std Dev 0.6701

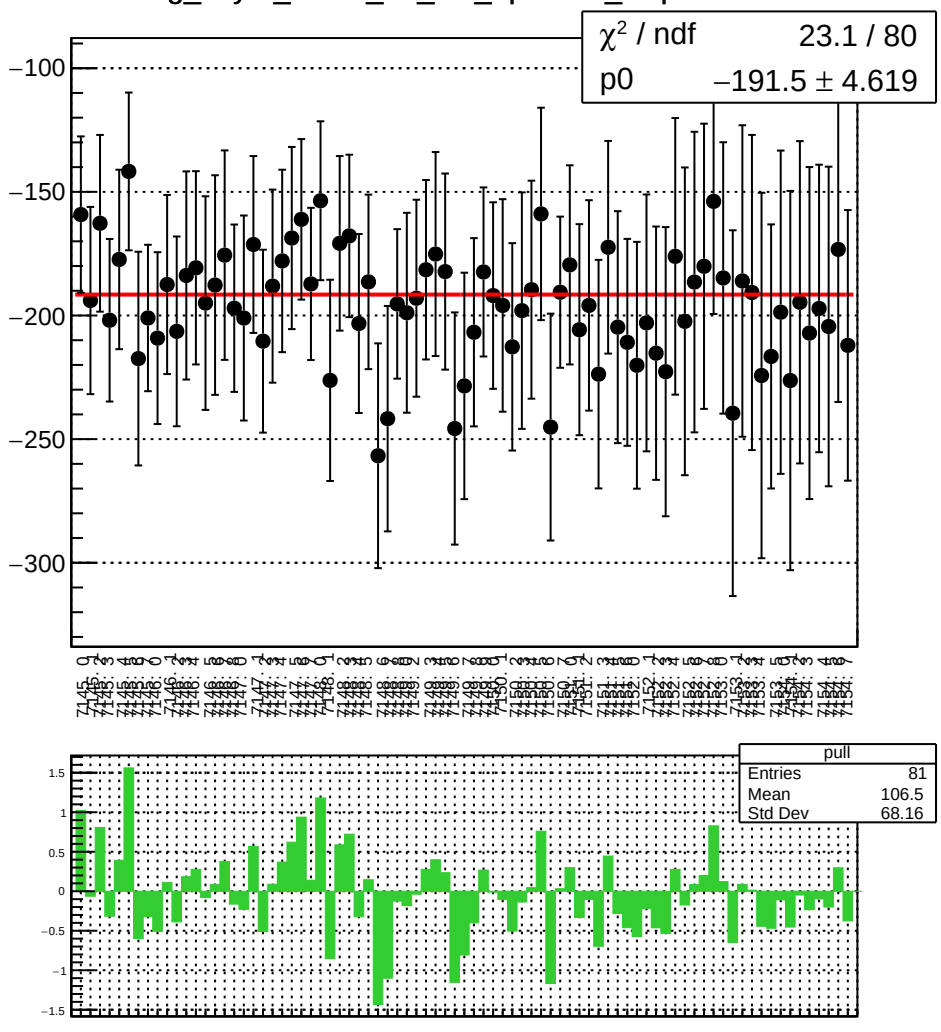

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.08 / 80
p0 80.41 ± 4.696
pull
Entries 81
Mean 147.5
Std Dev 94.04
pull1D
Entries 81
Mean 0.02298
Std Dev 0.4974

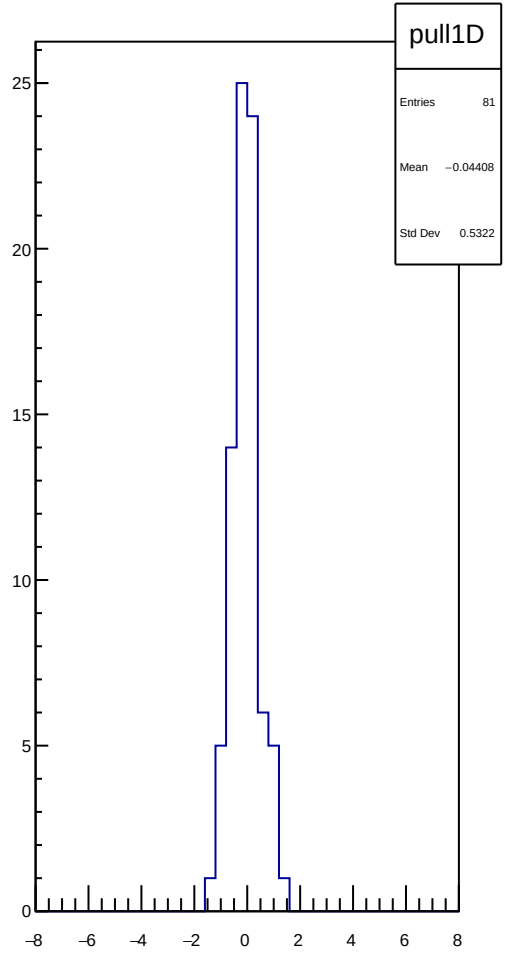

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 53.06 / 80
p0 −137.1 ± 0.2092
−130
−135
−140
−145
−150
pull
Entries 81
Mean 473
Std Dev 431.9
pull1D
Entries 81
Mean 0.005849
Std Dev 0.8093

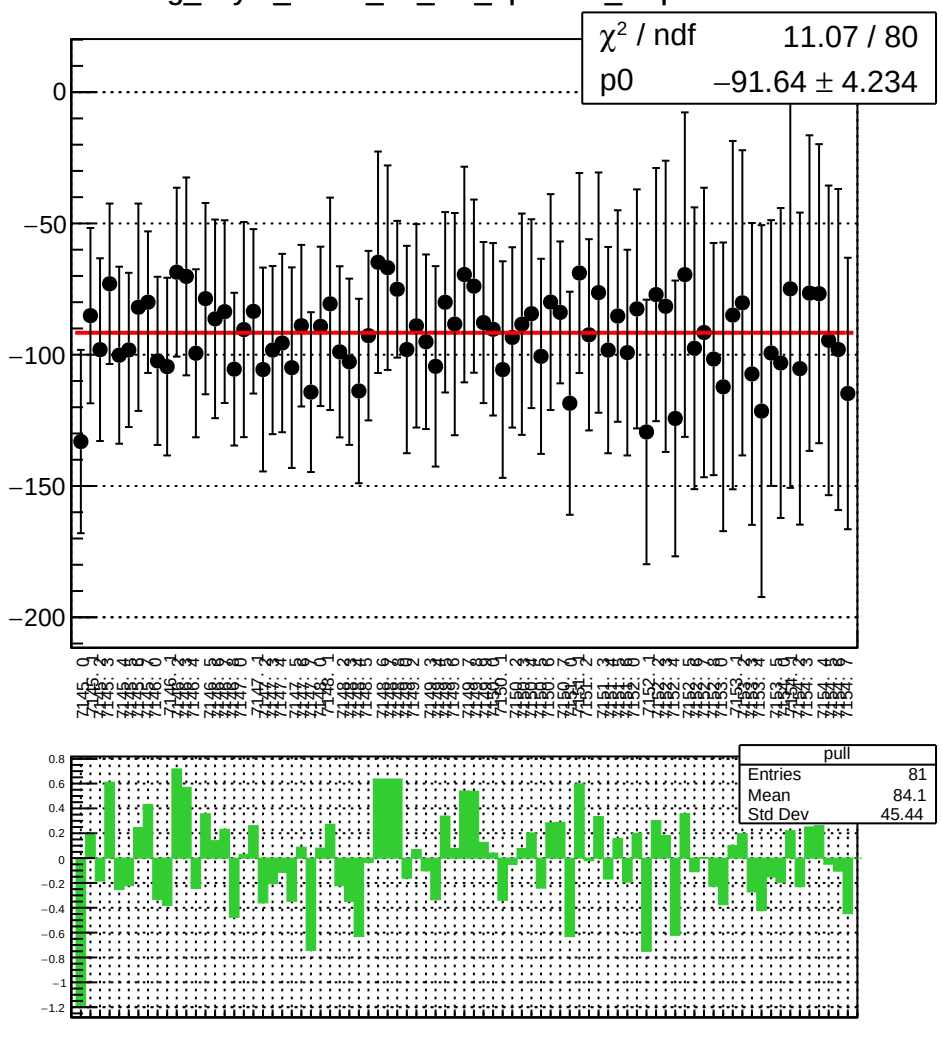

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 22.23 / 80
p0 157.6 ± 4.511
pull
Entries 81
Mean 100.8
Std Dev 63.04
pull1D
Entries 81
Mean 0.04129
Std Dev 0.5223

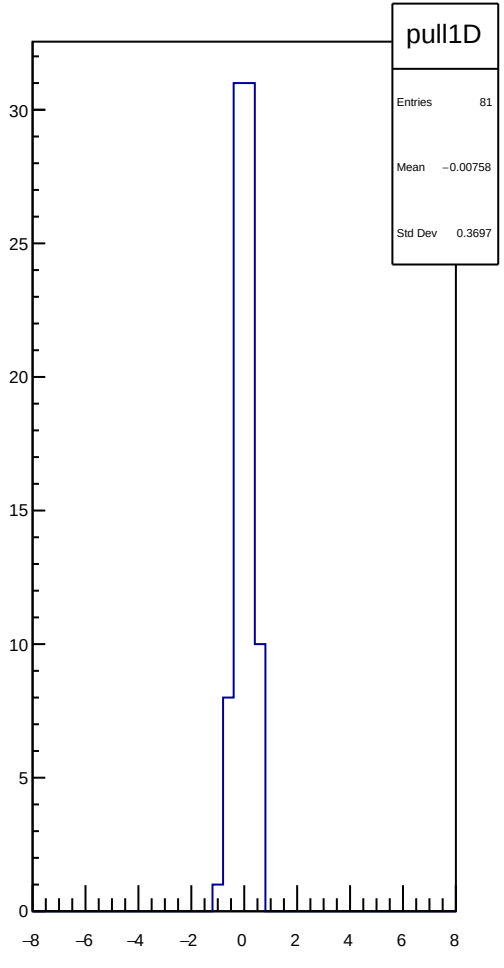

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.54 / 80
p0 16.18 ± 3.896
pull
Entries 81
Mean −102.7
Std Dev 85.51

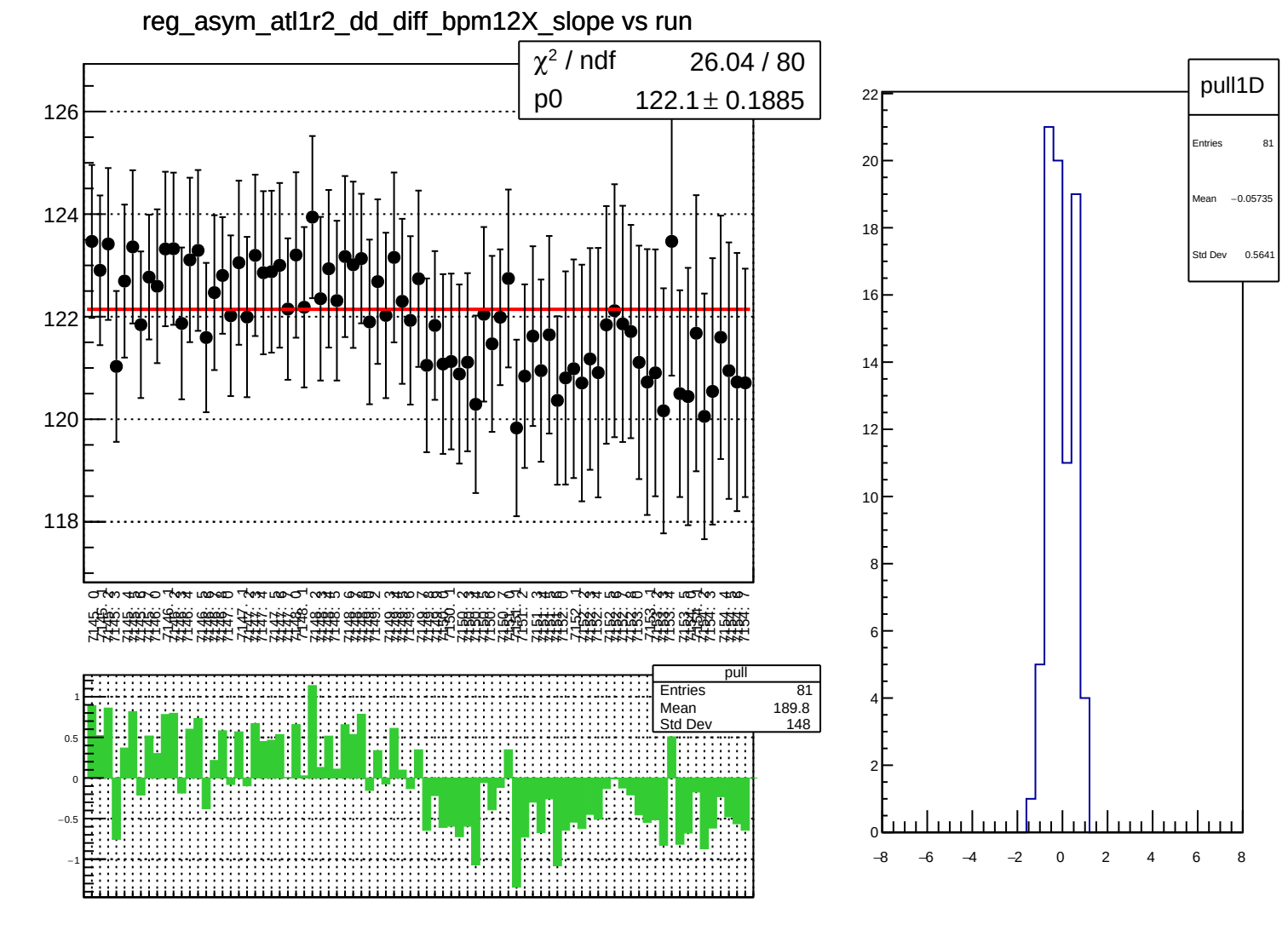

pull1D
Entries 81
Mean 0.001725
Std Dev 0.3607

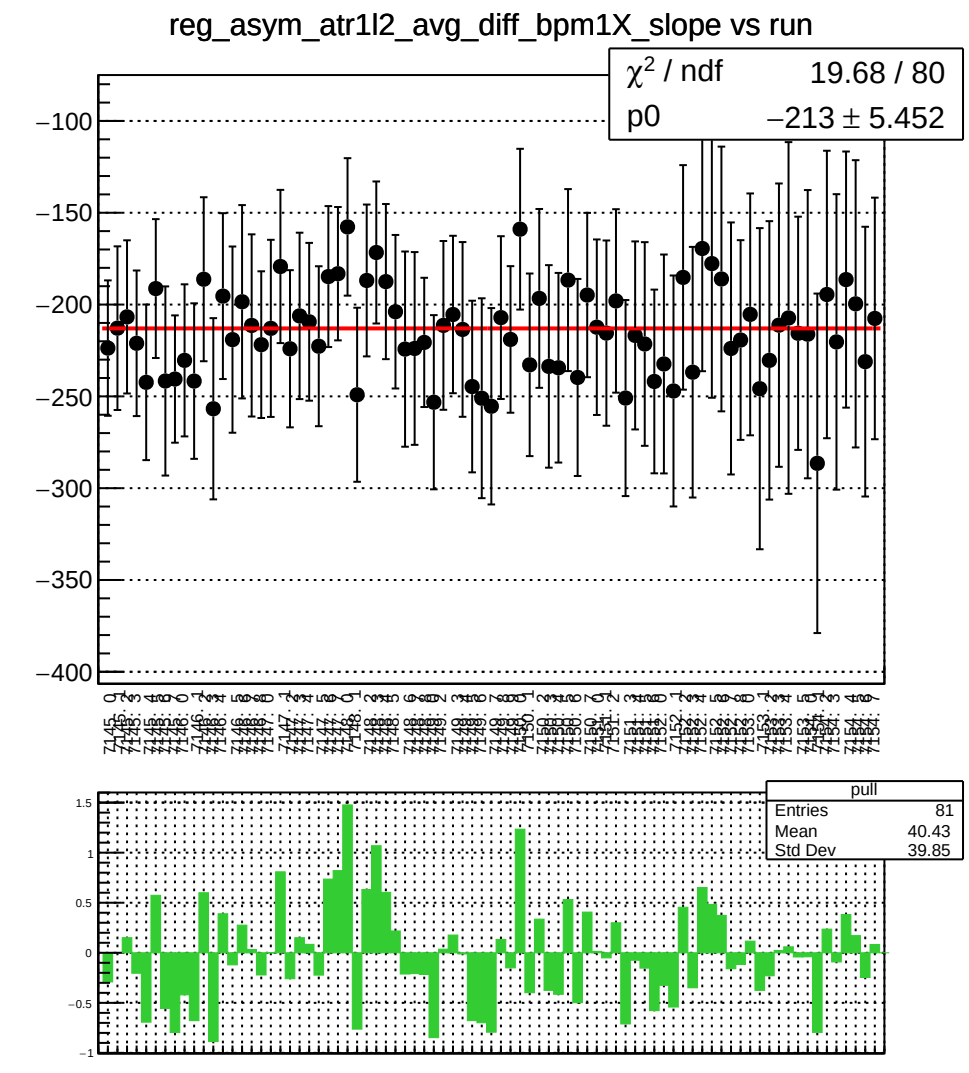

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.1 / 80
p0 −191.5 ± 4.619
−100
−150
−200
−250
−300
pull
Entries 81
Mean 106.5
Std Dev 68.16
1.5
1
0.5
0
−0.5
−1
−1.5

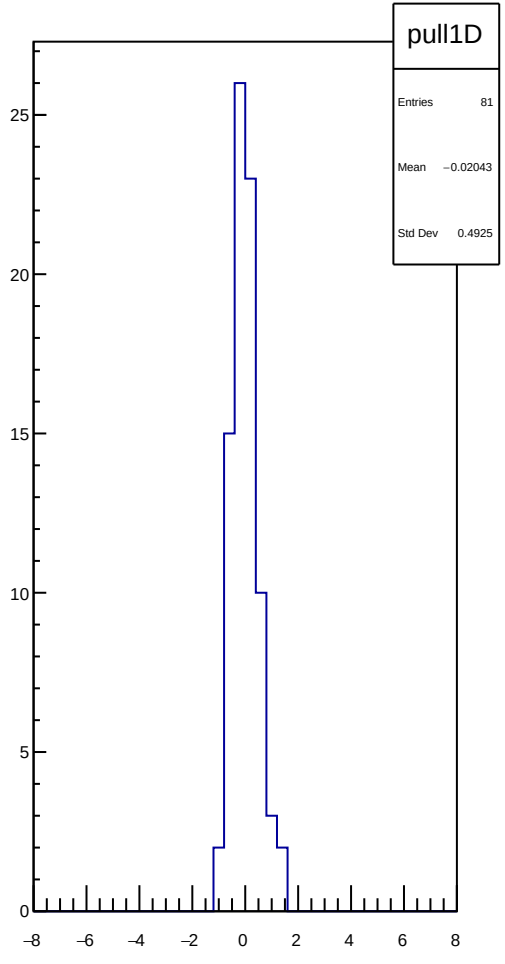

pull1D
Entries 81
Mean −0.04408
Std Dev 0.5322
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

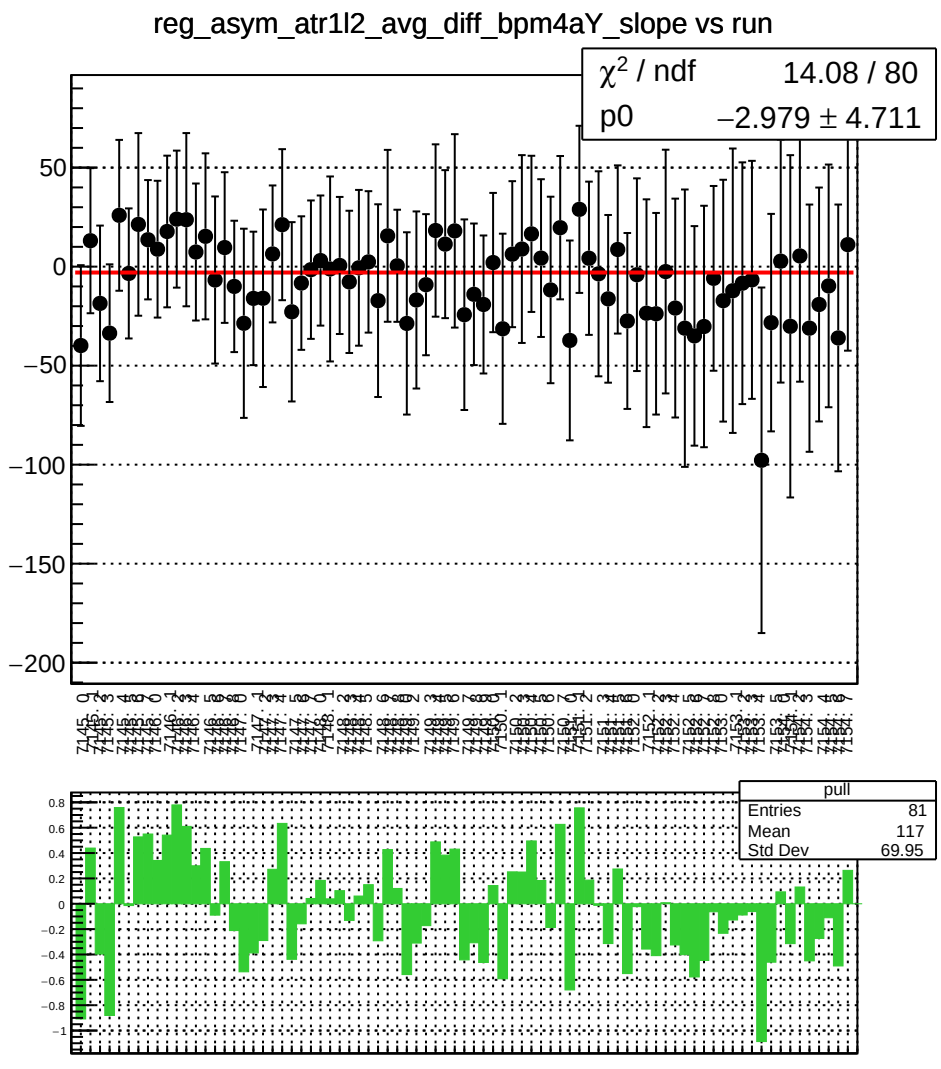

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.07 / 80
p0 −91.64 ± 4.234
pull
Entries 81
Mean 84.1
Std Dev 45.44

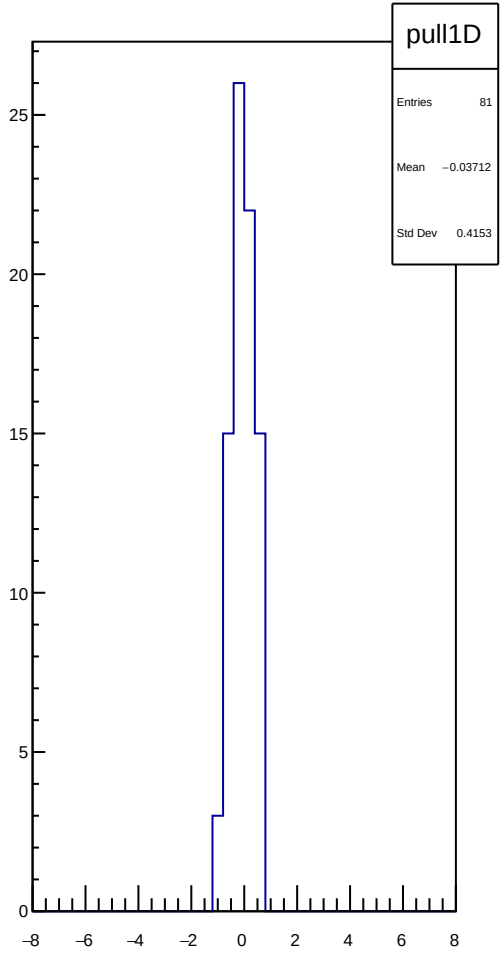

pull1D
Entries 81
Mean −0.00758
Std Dev 0.3697

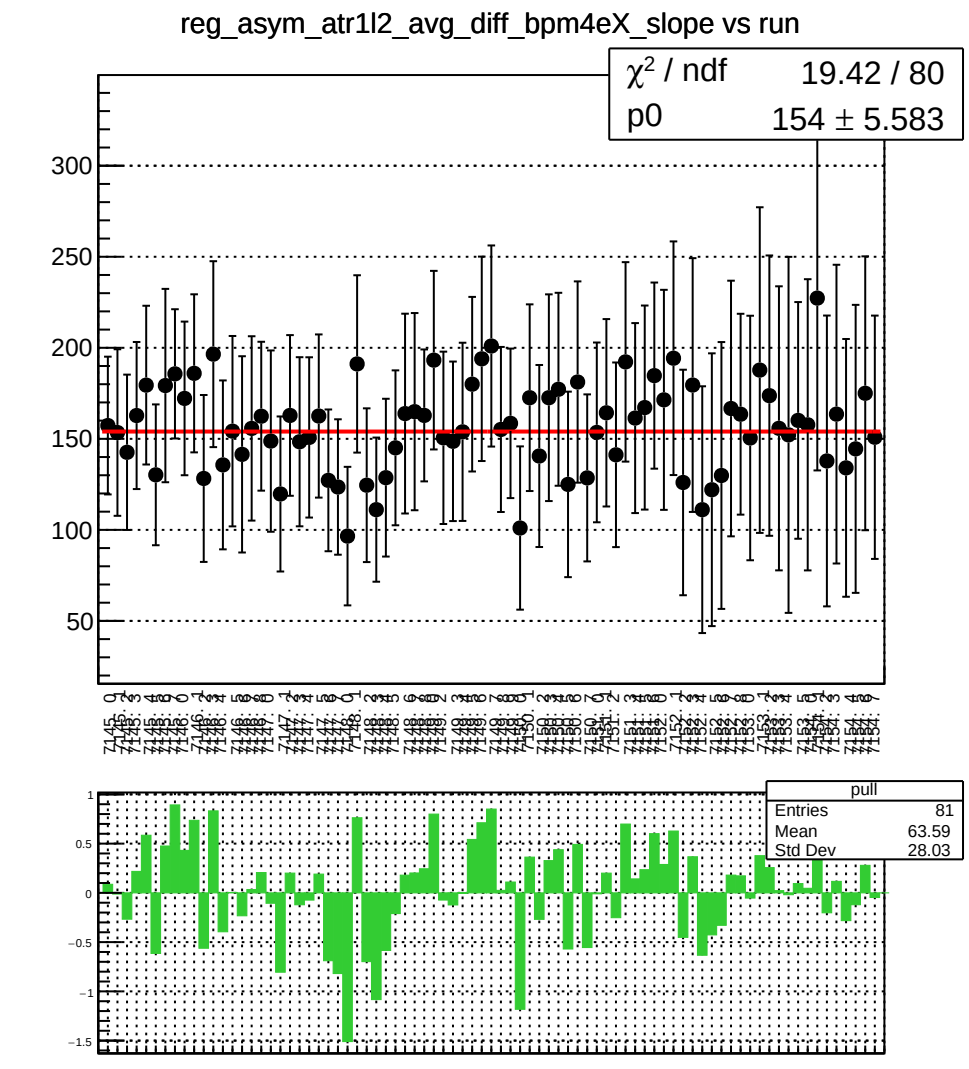

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 26.04 / 80
p0 122.1 ± 0.1885
126
124
122
120
118
pull
Entries 81
Mean 189.8
Std Dev 148
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean −0.05735
Std Dev 0.5641
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

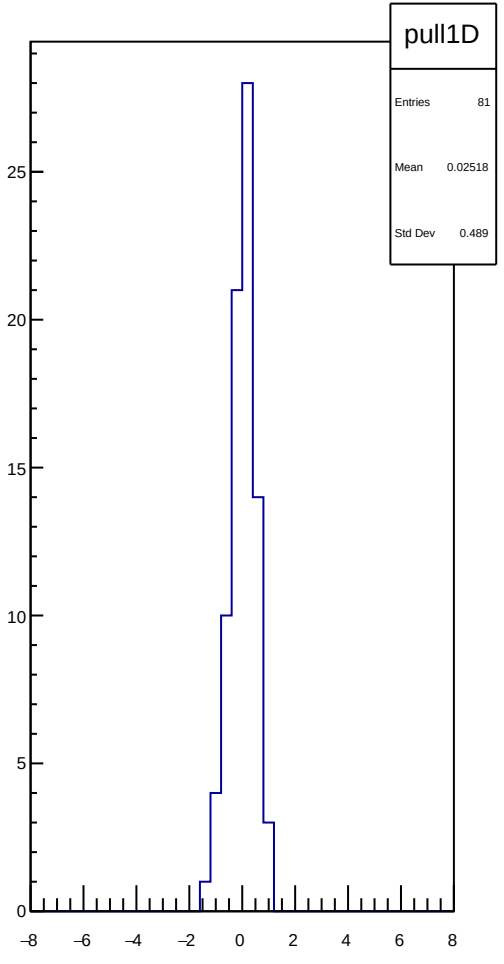

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 19.68 / 80
p0 −213 ± 5.452
−100
−150
−200
−250
−300
−350
−400
pull
Entries 81
Mean 40.43
Std Dev 39.85
1.5
1
0.5
0
−0.5
−1

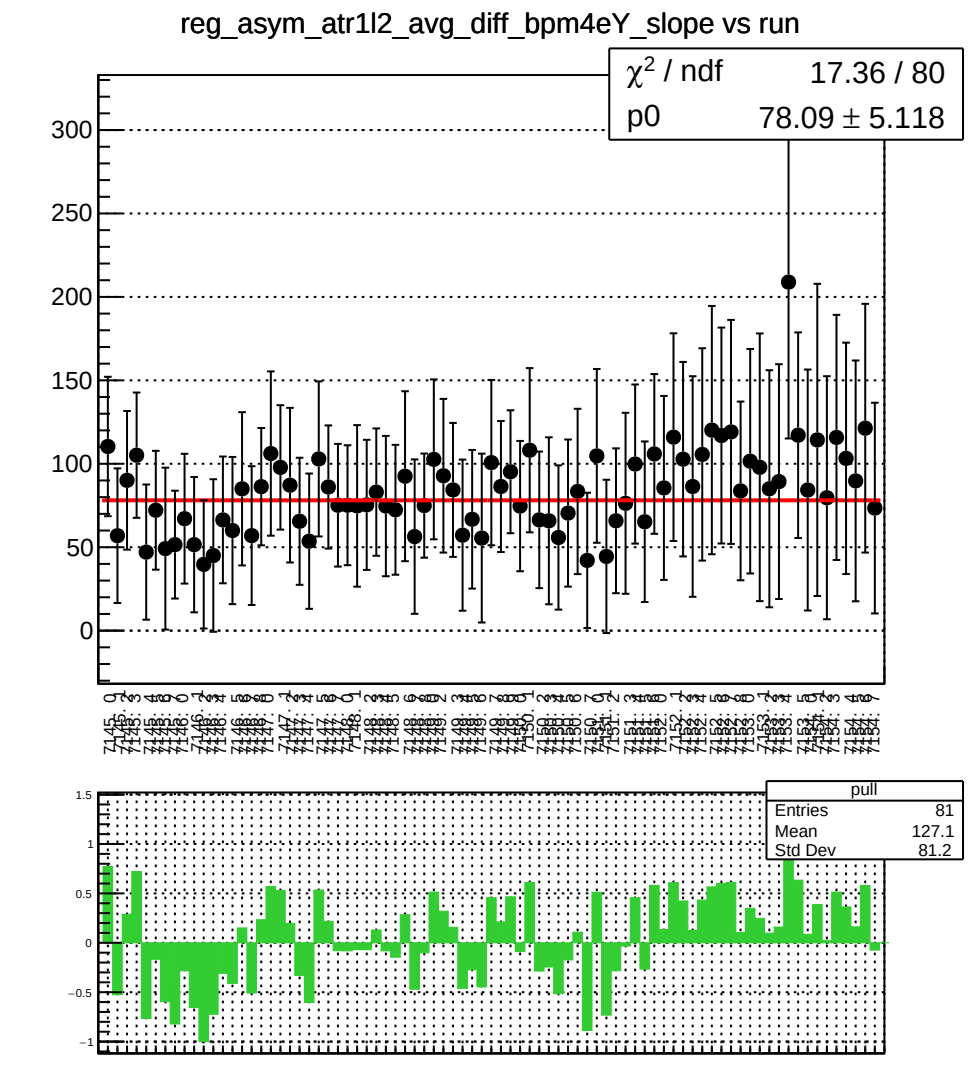

pull1D
Entries 81
Mean −0.02043
Std Dev 0.4925
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

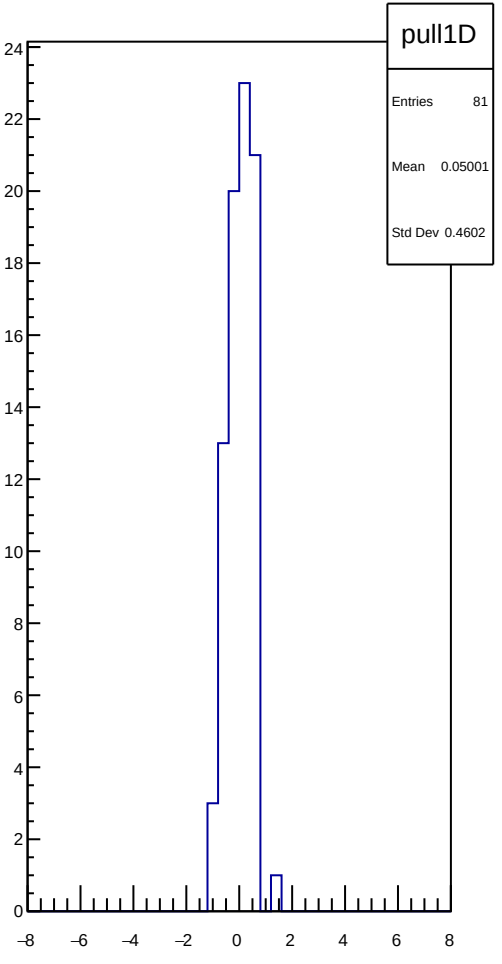

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.08 / 80
p0 −2.979 ± 4.711
50
0
−50
−100
−150
−200
pull
Entries 81
Mean 117
Std Dev 69.95
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

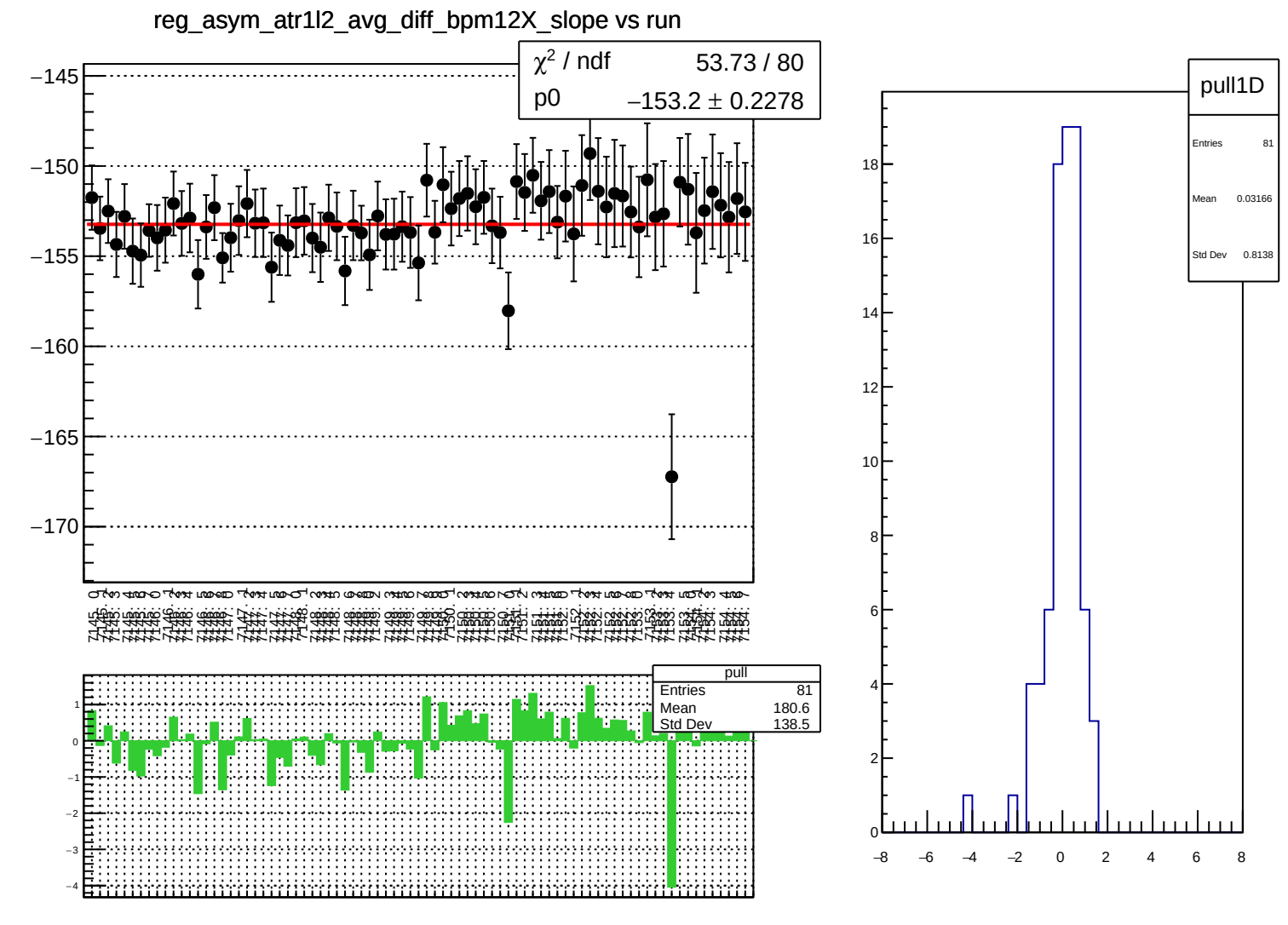

pull1D
Entries 81
Mean −0.03712
Std Dev 0.4153
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

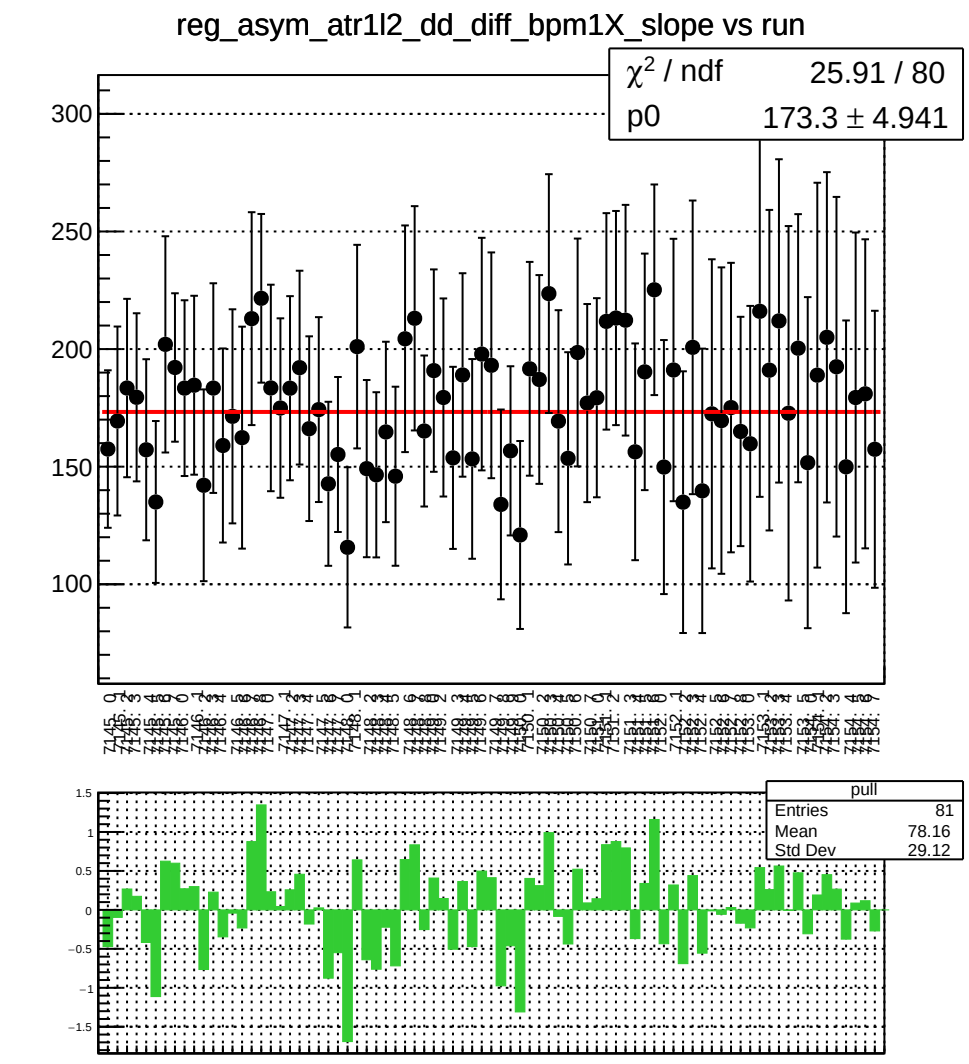

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.42 / 80
p0 154 ± 5.583
300
250
200
150
100
50
pull
Entries 81
Mean 63.59
Std Dev 28.03
1
0.5
0
−0.5
−1
−1.5

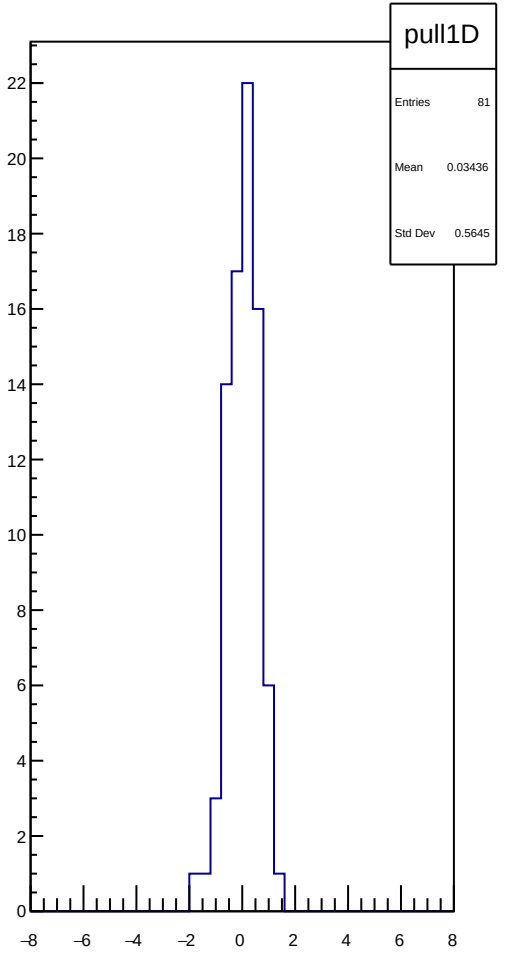

pull1D
Entries 81
Mean 0.02518
Std Dev 0.489
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

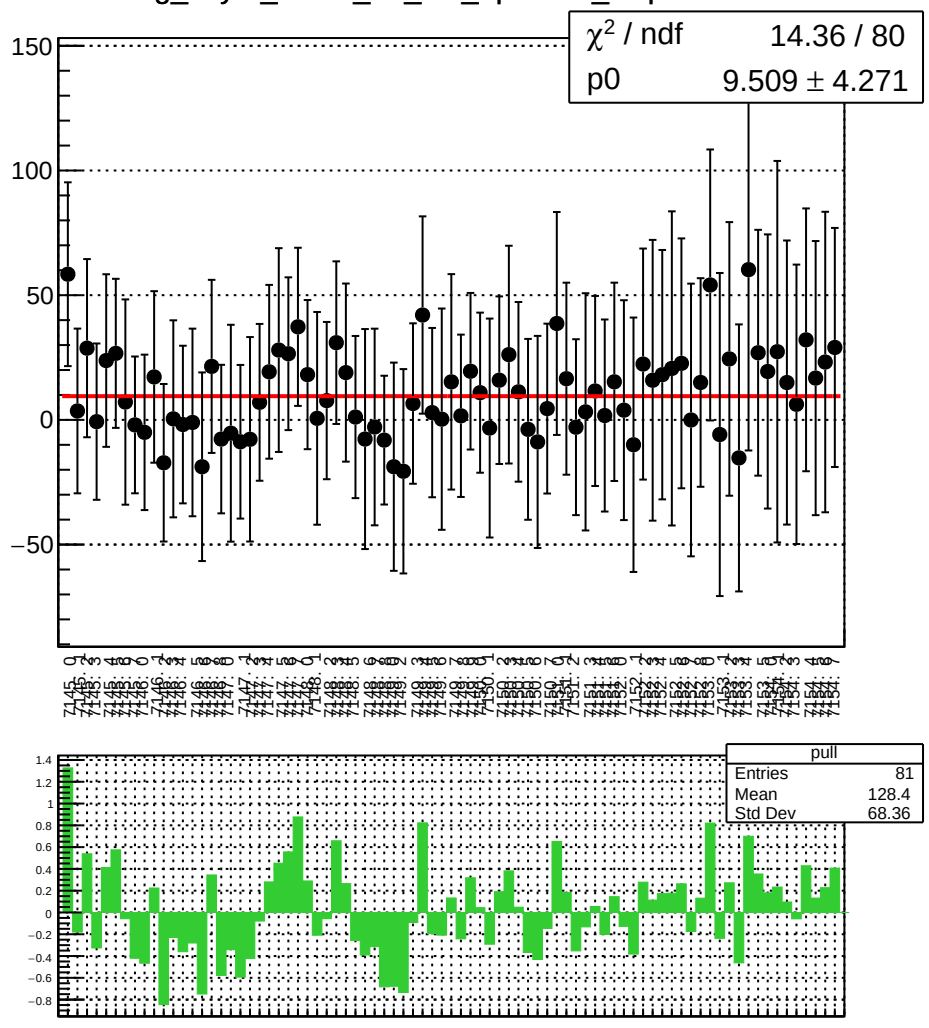

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.36 / 80
p0 78.09 ± 5.118
pull
Entries 81
Mean 127.1
Std Dev 81.2

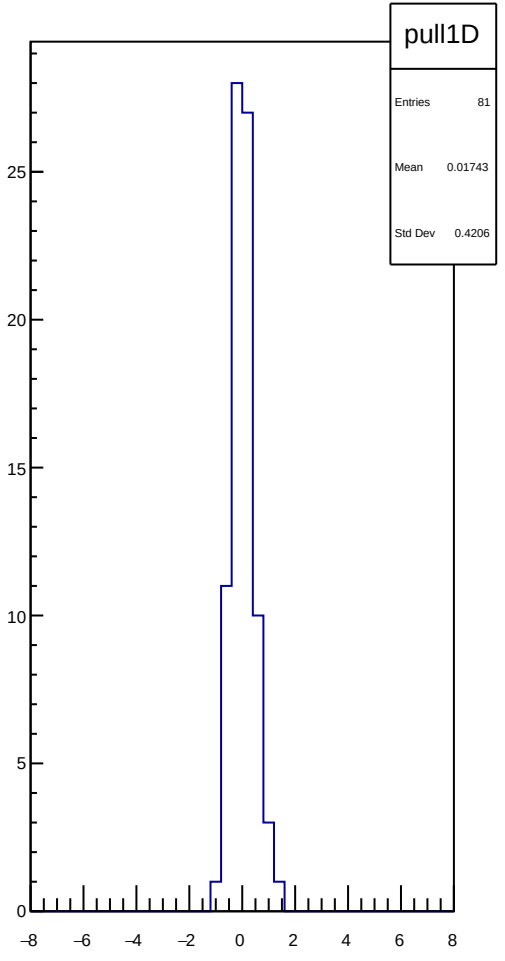

pull1D
Entries 81
Mean 0.05001
Std Dev 0.4602

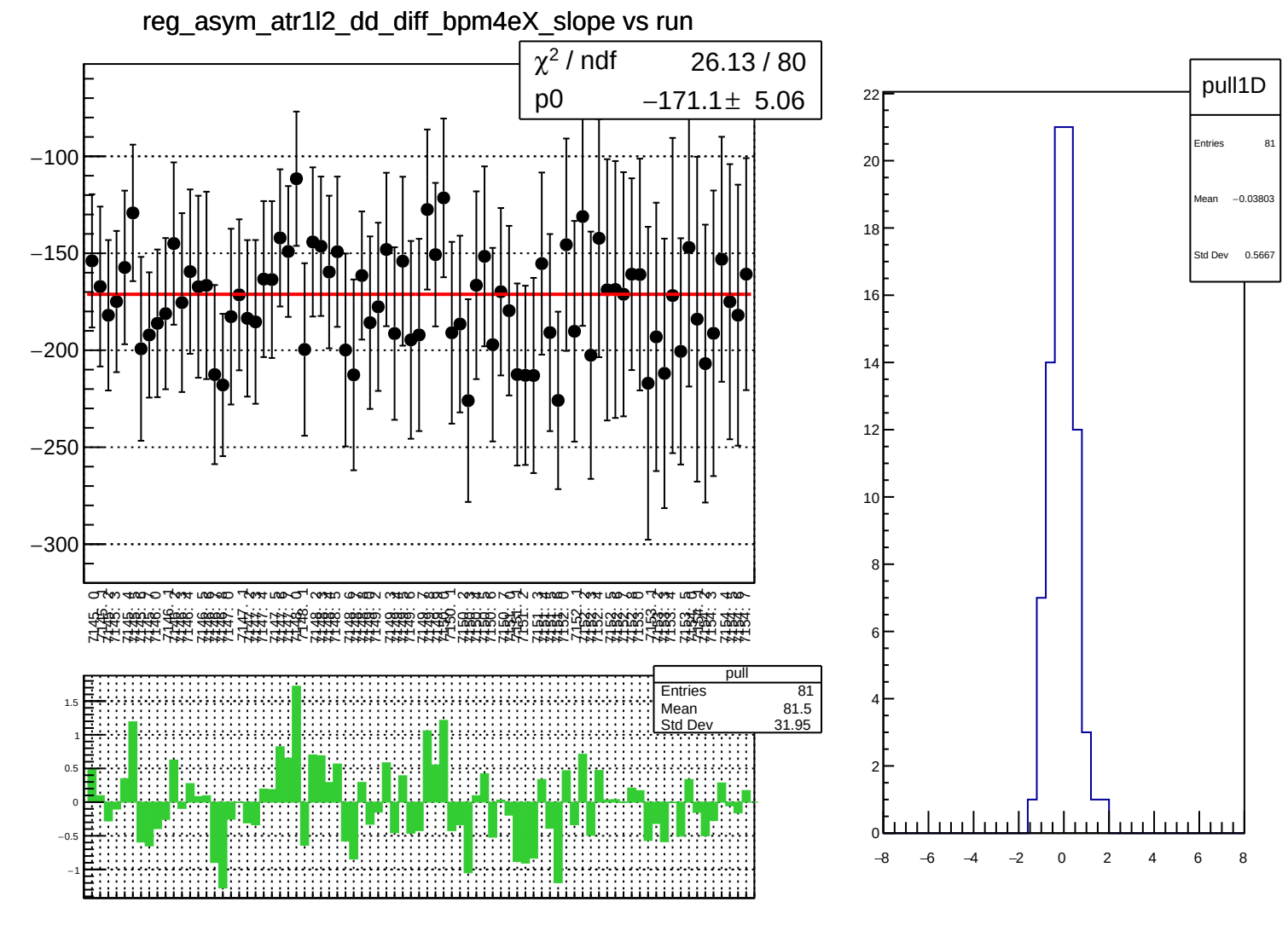

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 53.73 / 80
p0 −153.2 ± 0.2278
−145
−150
−155
−160
−165
−170
pull
Entries 81
Mean 180.6
Std Dev 138.5
1
0
−1
−2
−3
−4
pull1D
Entries 81
Mean 0.03166
Std Dev 0.8138
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

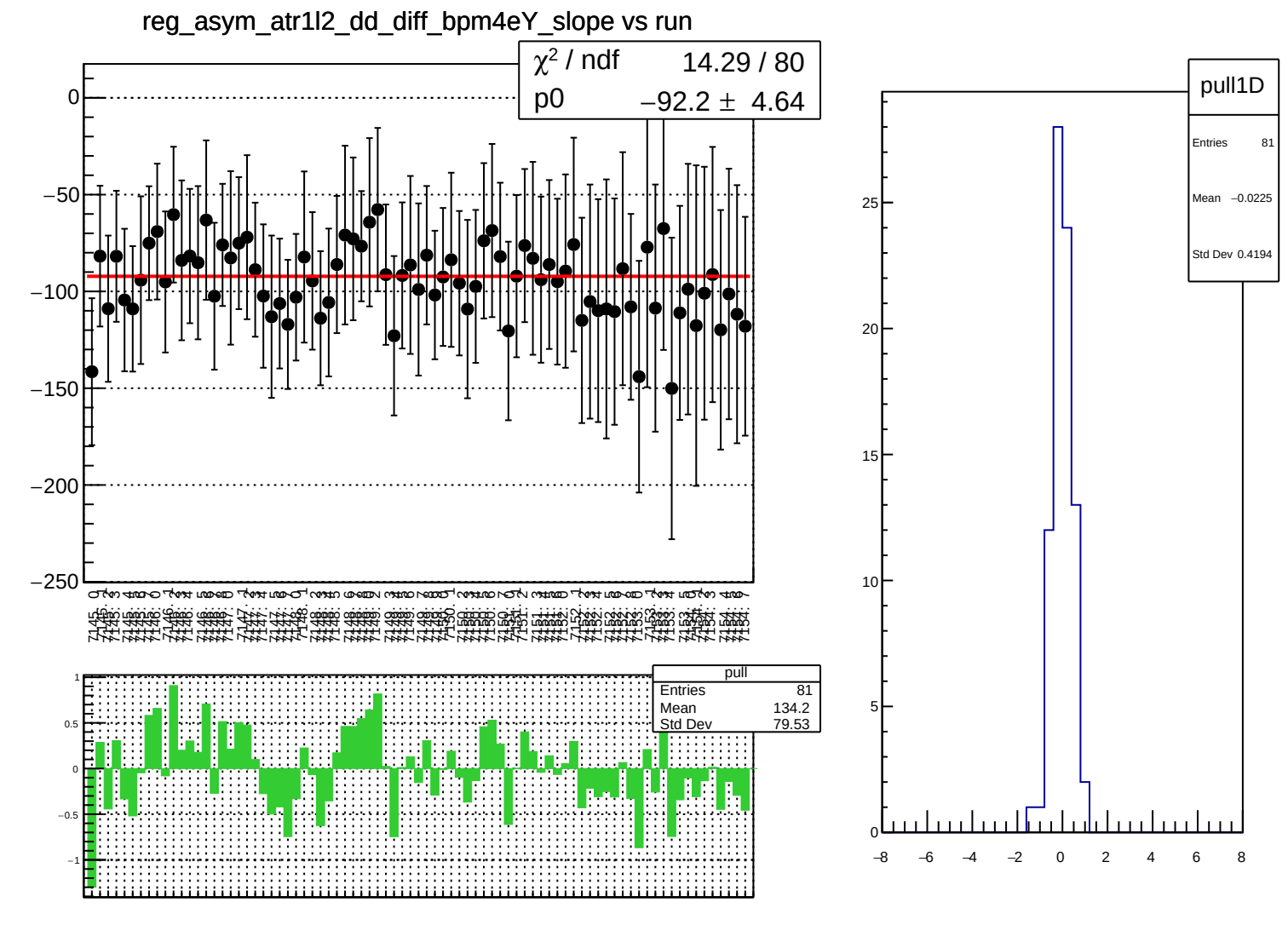

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 25.91 / 80
p0 173.3 ± 4.941
300
250
200
150
100
pull
Entries 81
Mean 78.16
Std Dev 29.12
1.5
1
0.5
0
−0.5
−1
−1.5

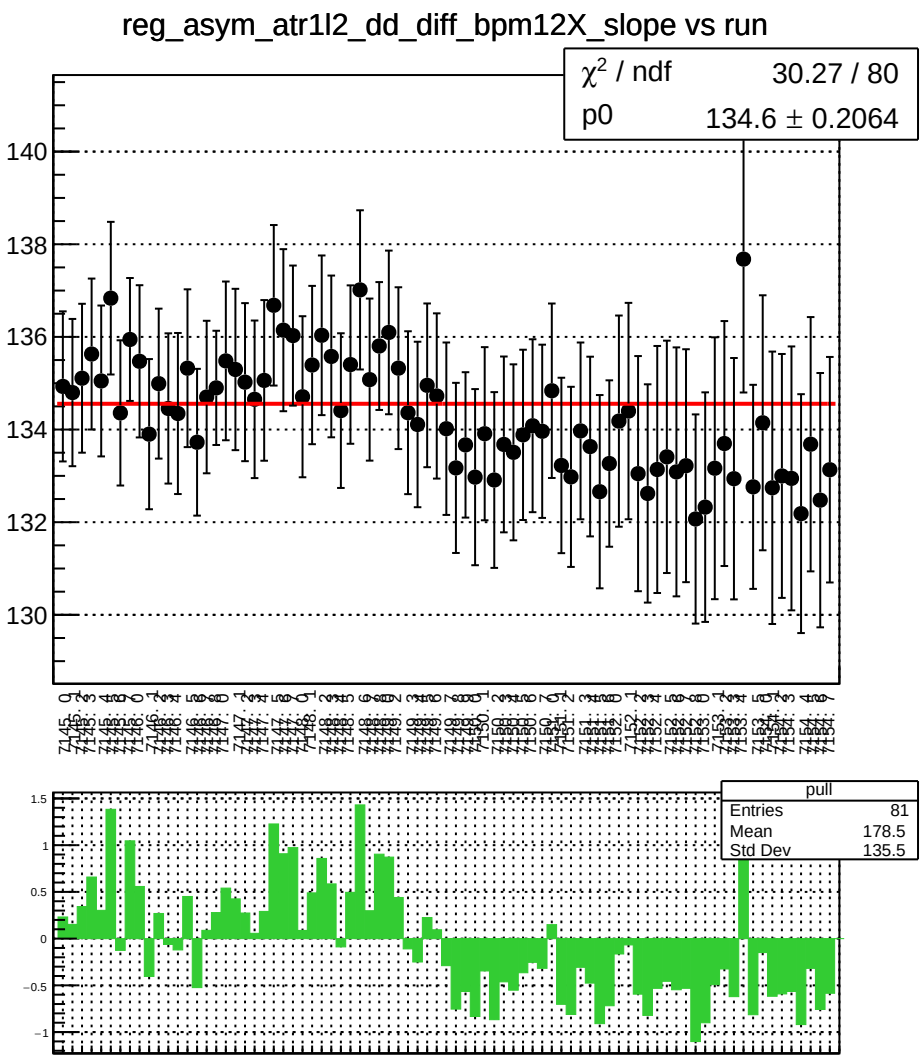

pull1D
Entries 81
Mean 0.03436
Std Dev 0.5645
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

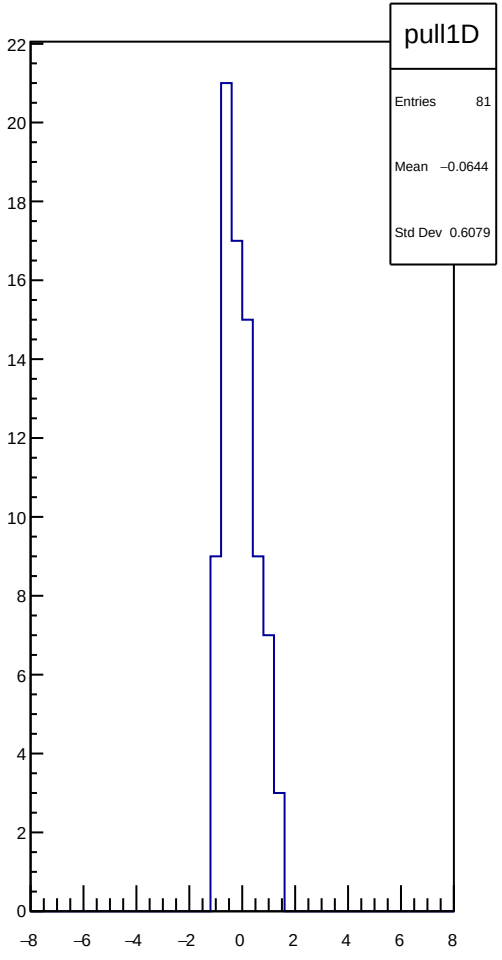

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.36 / 80
p0 9.509 ± 4.271
pull
Entries 81
Mean 128.4
Std Dev 68.36

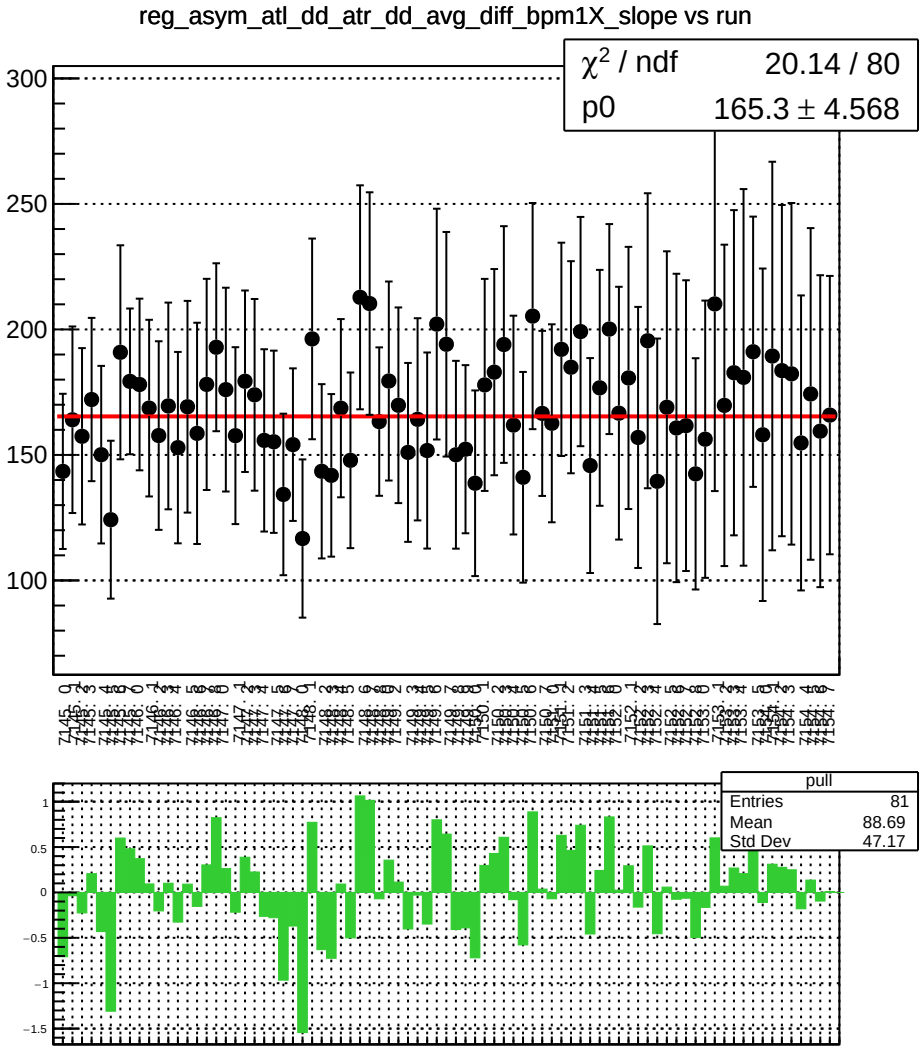

pull1D
Entries 81
Mean 0.01743
Std Dev 0.4206

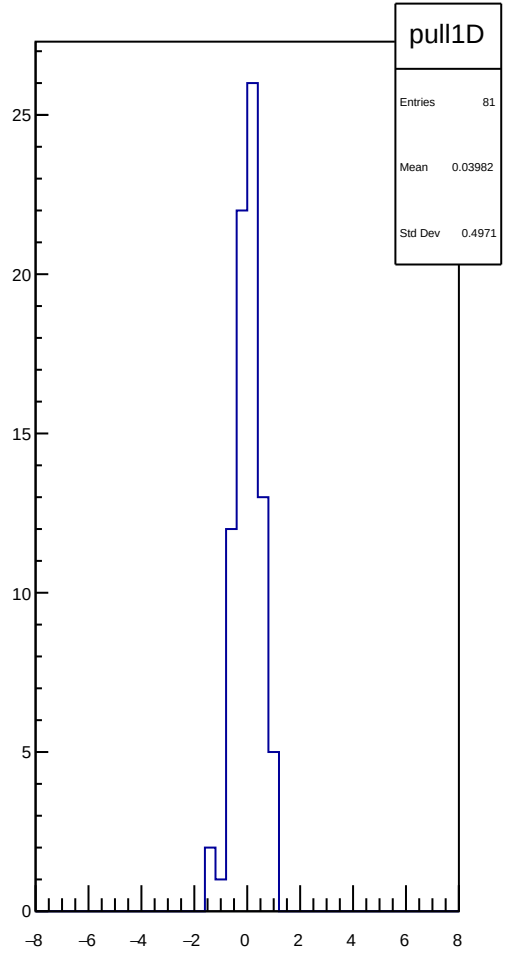

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.13 / 80
p0 −171.1± 5.06
−100
−150
−200
−250
−300
pull
Entries 81
Mean 81.5
Std Dev 31.95
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean −0.03803
Std Dev 0.5667
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

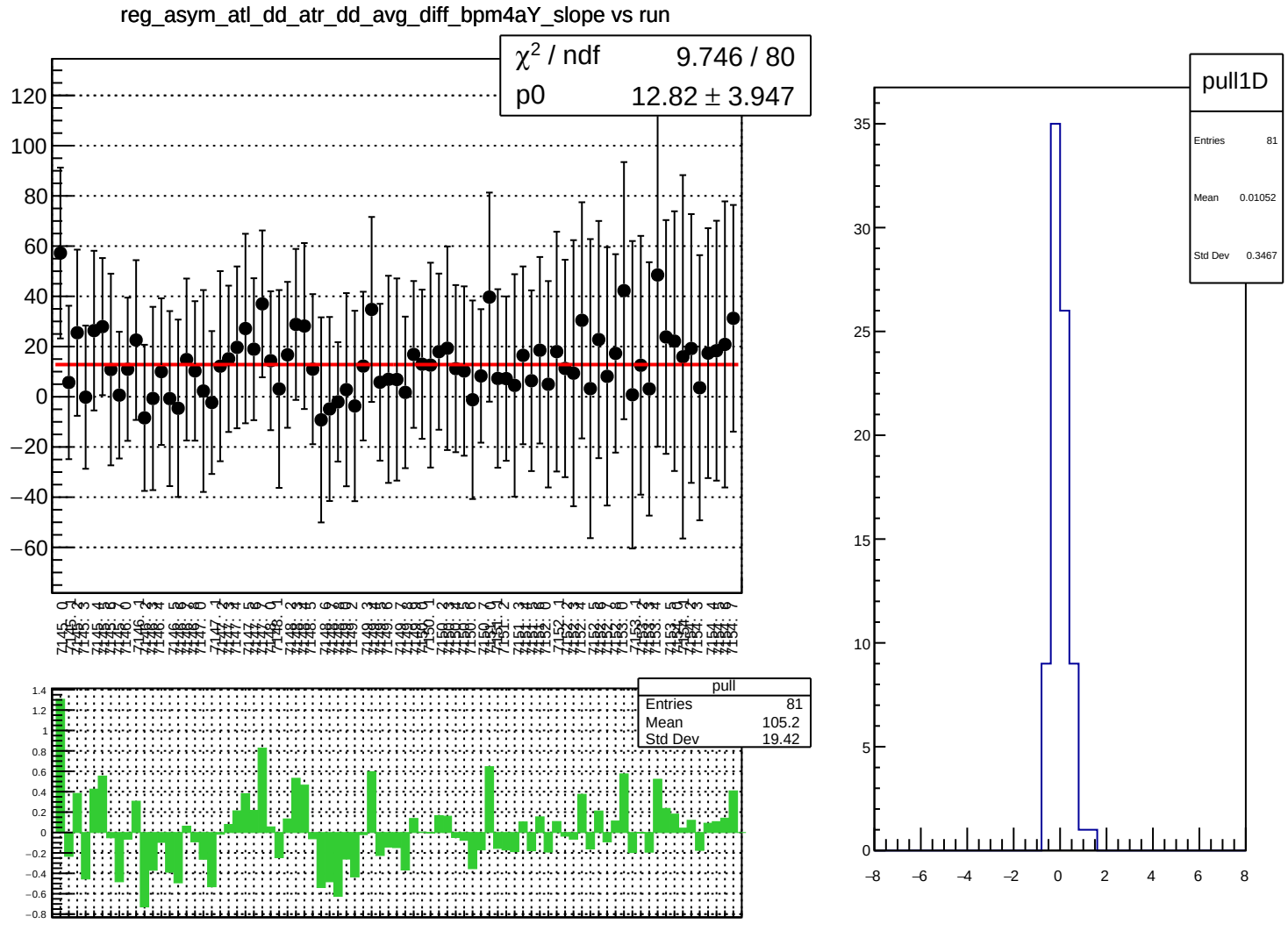

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.29 / 80
p0 −92.2 ± 4.64
pull
Entries 81
Mean 134.2
Std Dev 79.53
pull1D
Entries 81
Mean −0.0225
Std Dev 0.4194

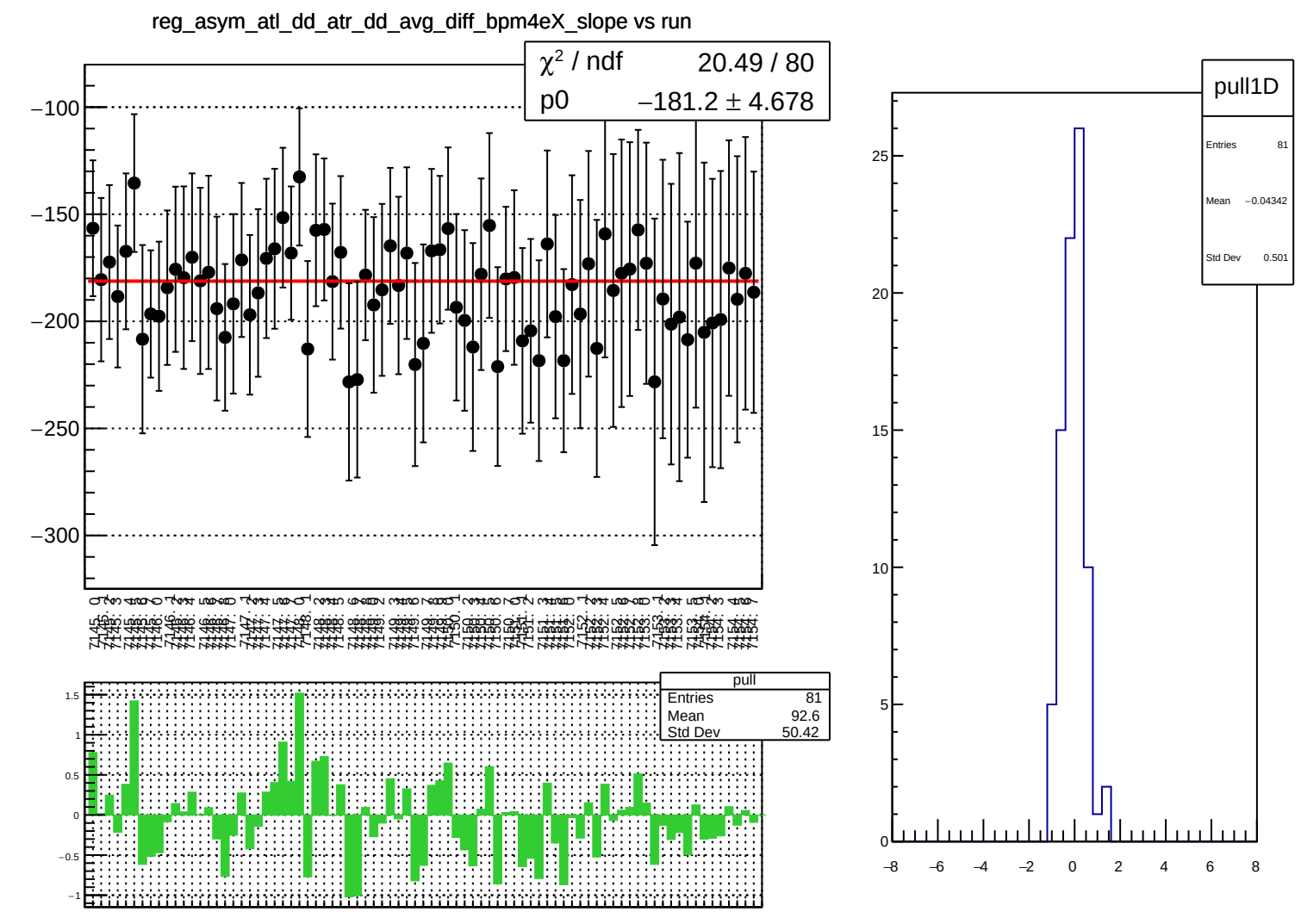

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 30.27 / 80
p0 134.6 ± 0.2064
pull
Entries 81
Mean 178.5
Std Dev 135.5

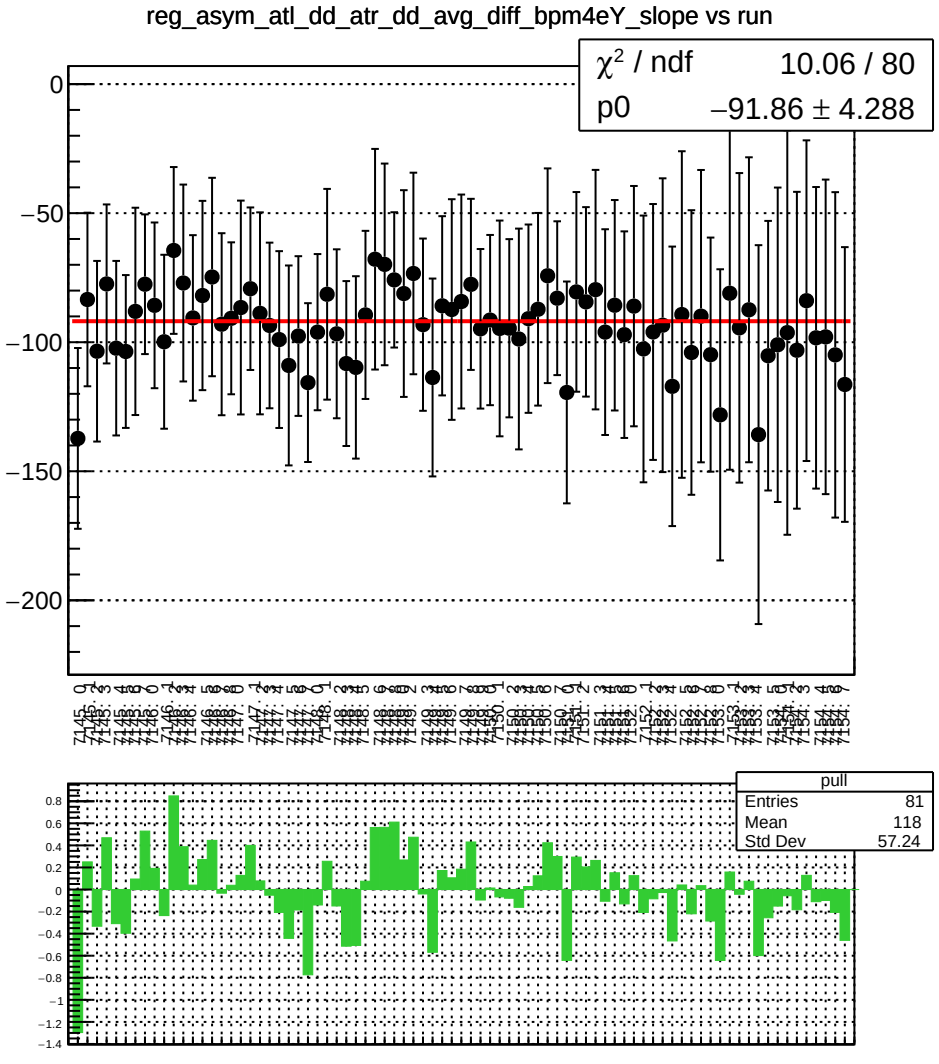

pull1D
Entries 81
Mean −0.0644
Std Dev 0.6079

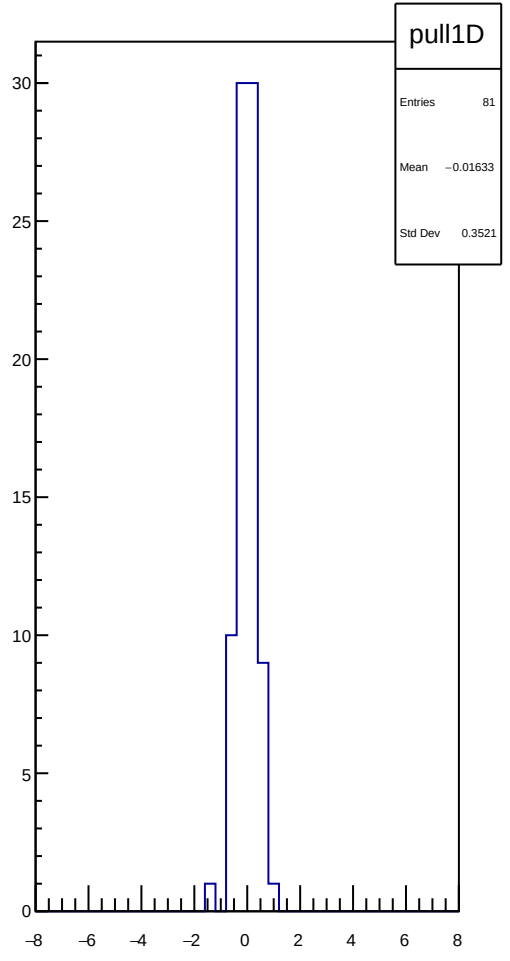

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 20.14 / 80
p0 165.3 ± 4.568
pull
Entries 81
Mean 88.69
Std Dev 47.17

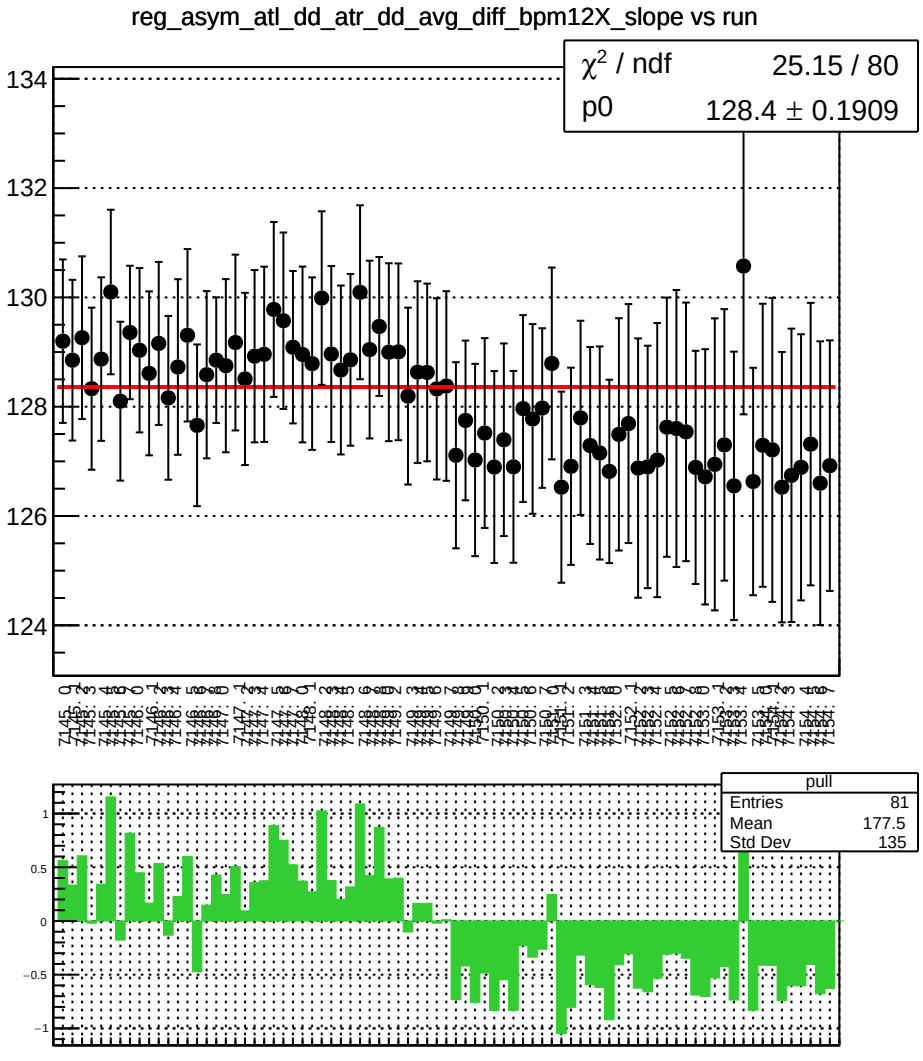

pull1D
Entries 81
Mean 0.03982
Std Dev 0.4971

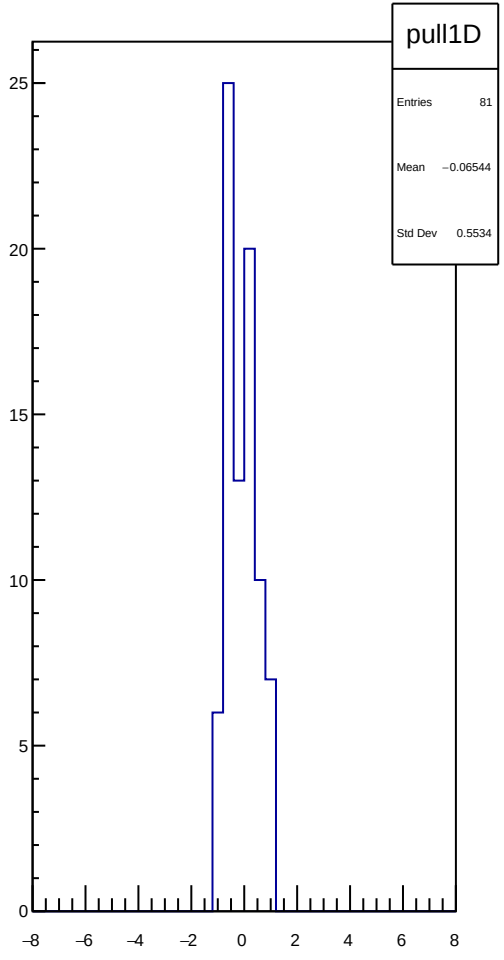

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 9.746 / 80
p0 12.82 ± 3.947
pull
Entries 81
Mean 105.2
Std Dev 19.42
pull1D
Entries 81
Mean 0.01052
Std Dev 0.3467

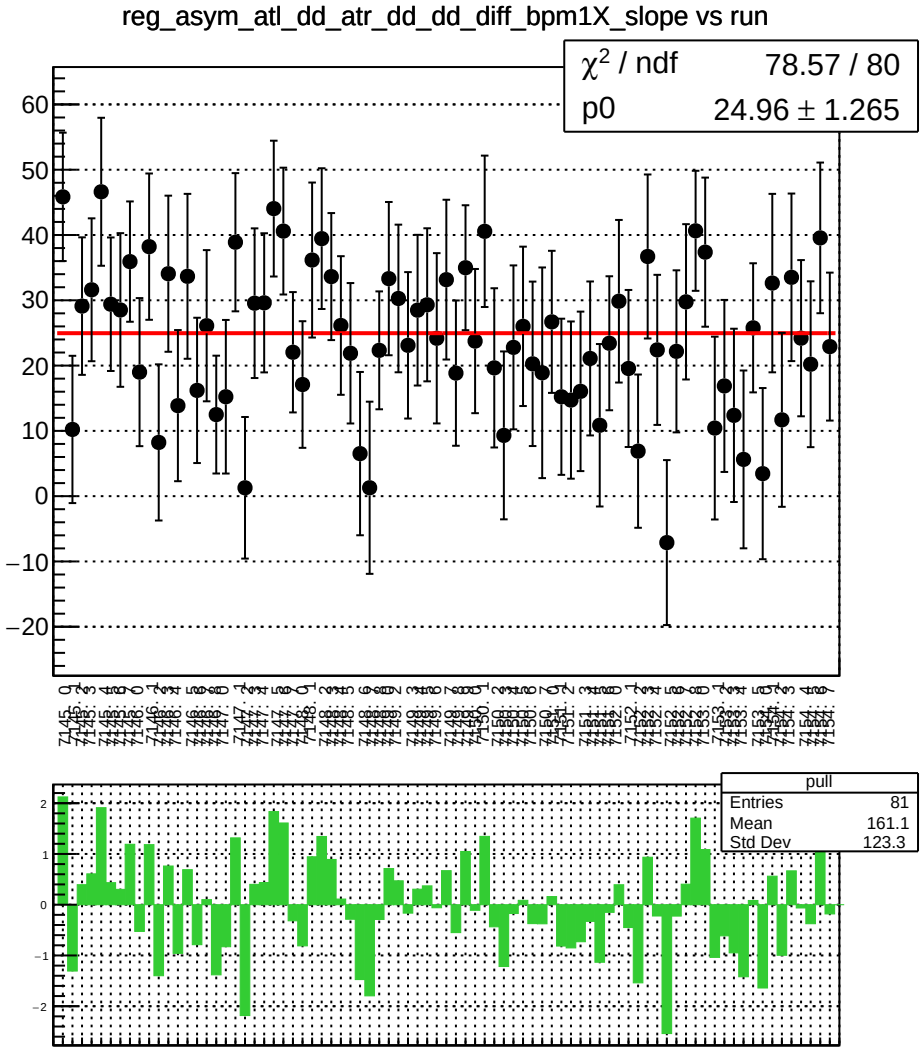

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.49 / 80
p0 −181.2 ± 4.678
pull
Entries 81
Mean 92.6
Std Dev 50.42
pull1D
Entries 81
Mean −0.04342
Std Dev 0.501

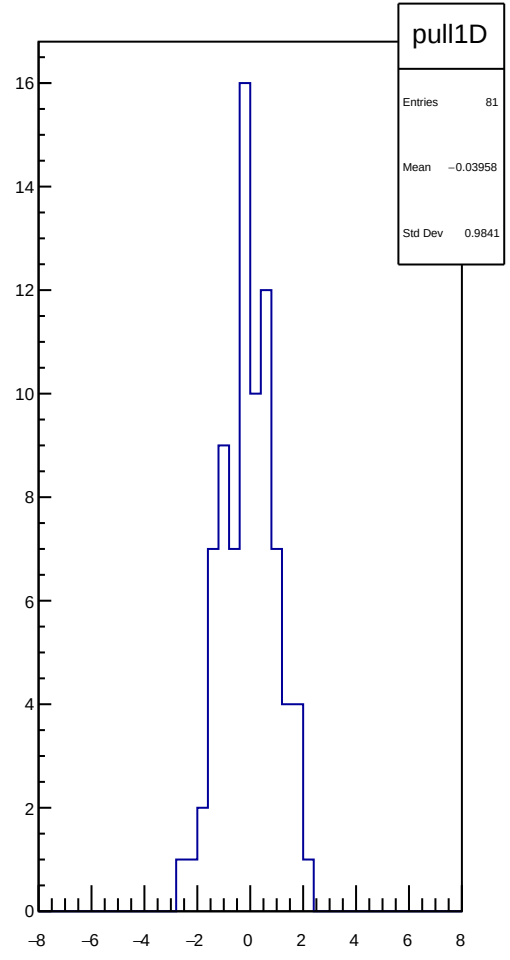

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.06 / 80
p0 −91.86 ± 4.288
0
−50
−100
−150
−200
pull
Entries 81
Mean 118
Std Dev 57.24
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

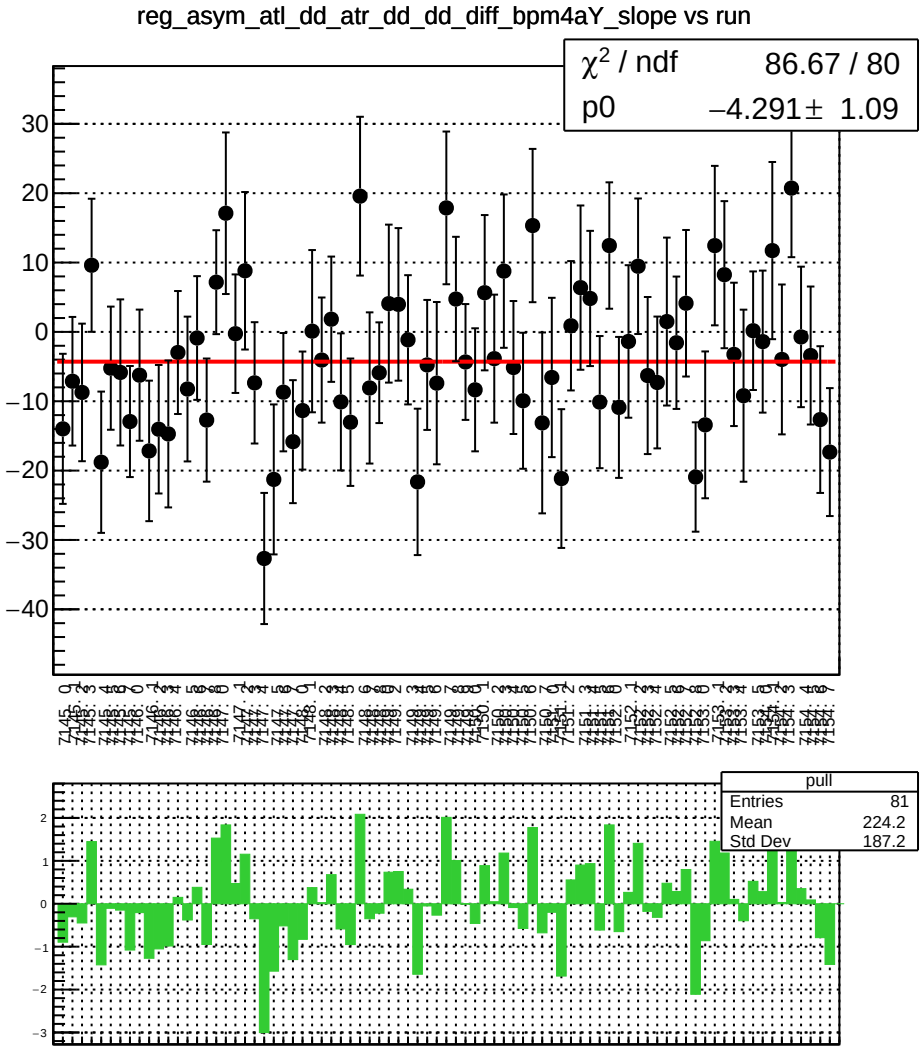

pull1D
Entries 81
Mean −0.01633
Std Dev 0.3521
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

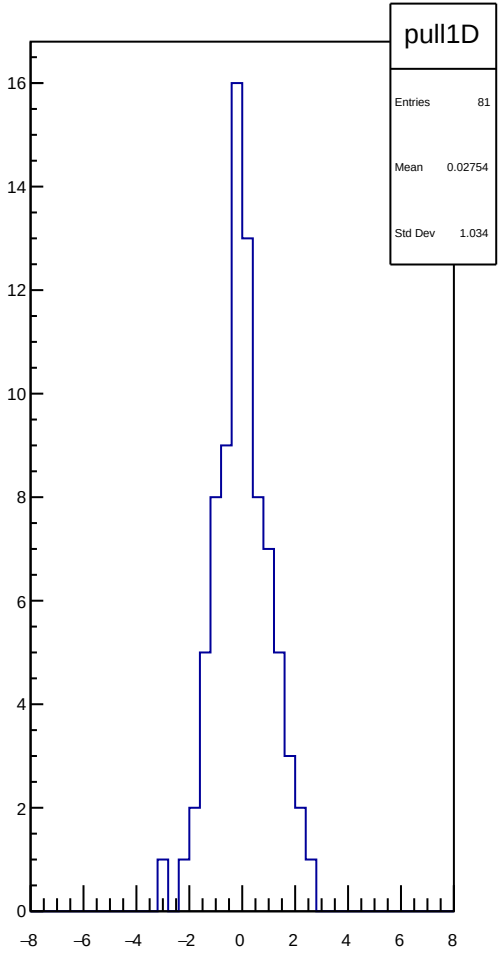

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 25.15 / 80
p0 128.4 ± 0.1909
134
132
130
128
126
124
pull
Entries 81
Mean 177.5
Std Dev 135
1
0.5
0
−0.5
−1

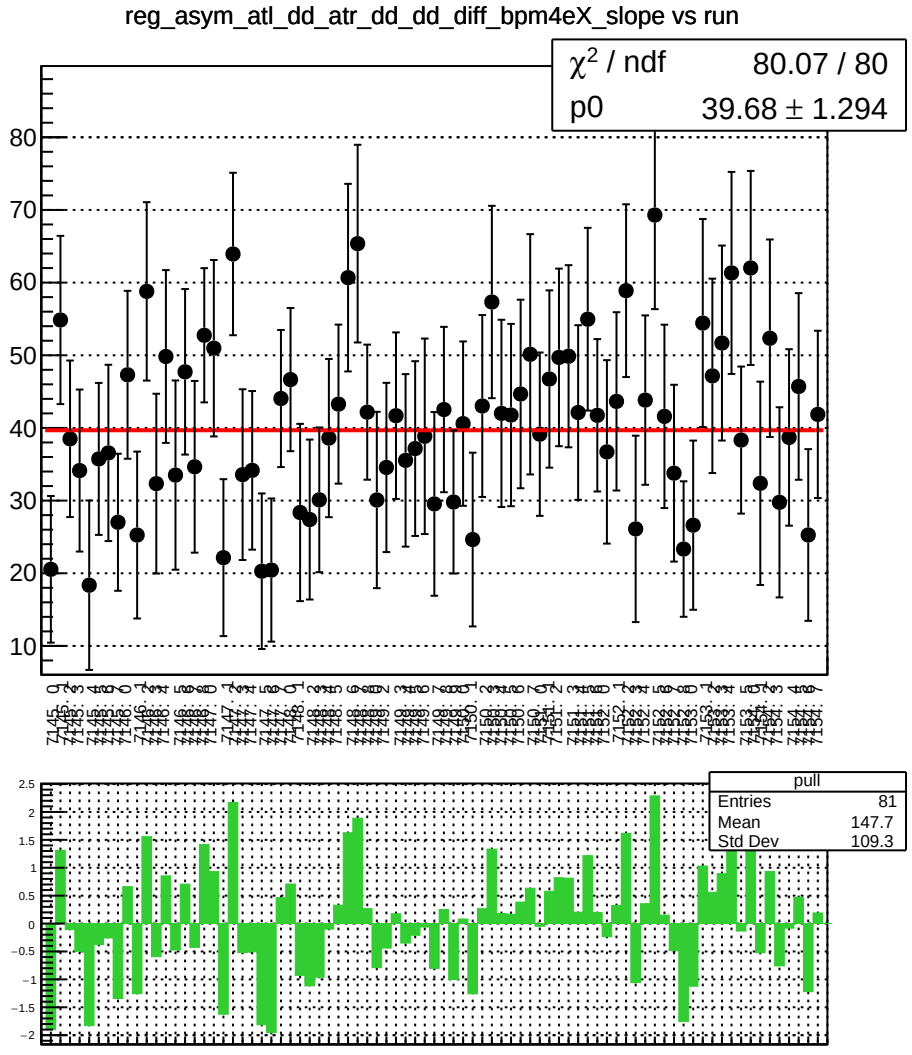

pull1D
Entries 81
Mean −0.06544
Std Dev 0.5534
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

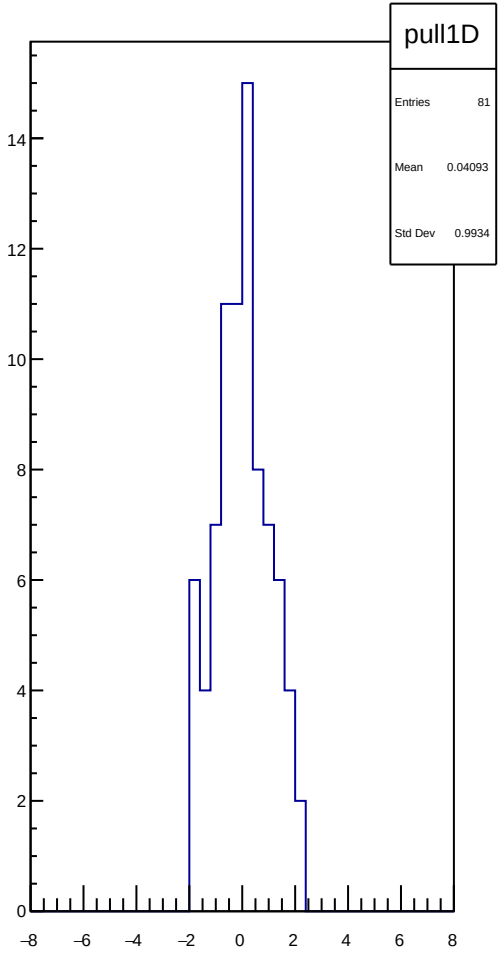

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 78.57 / 80
p0 24.96 ± 1.265
pull
Entries 81
Mean 161.1
Std Dev 123.3

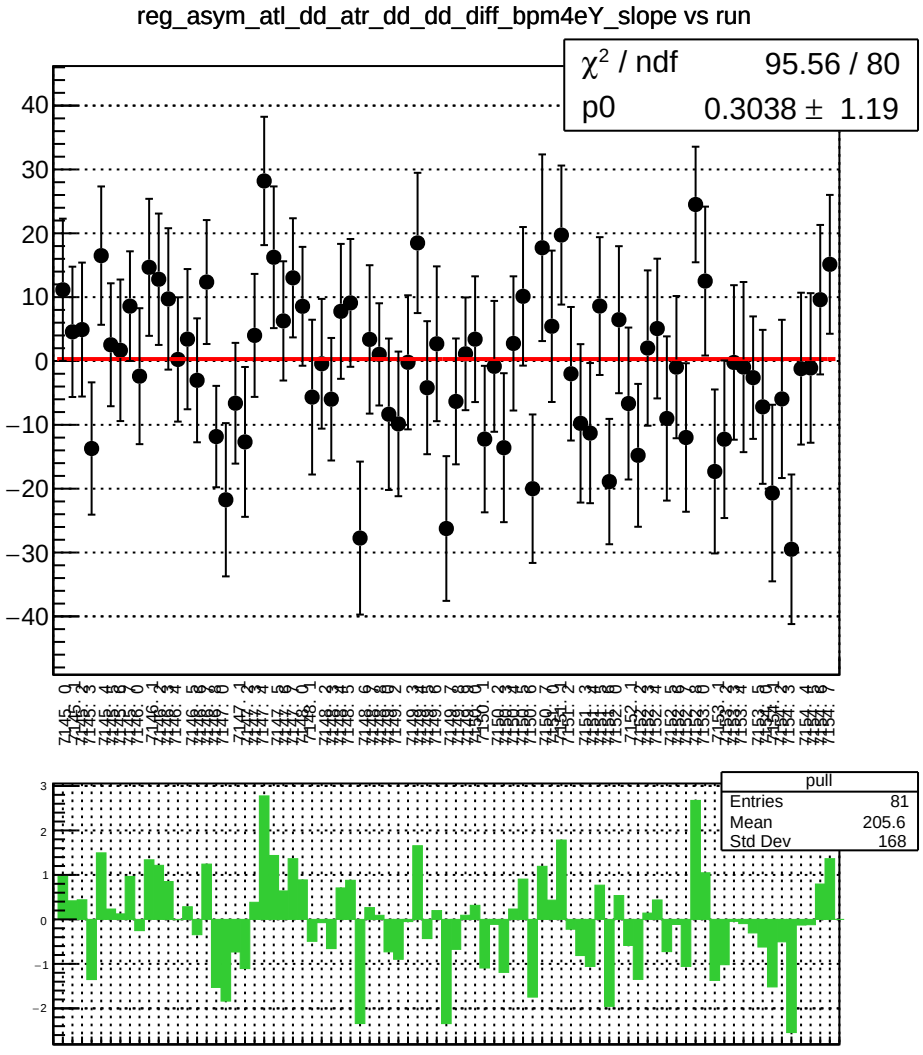

pull1D
Entries 81
Mean −0.03958
Std Dev 0.9841

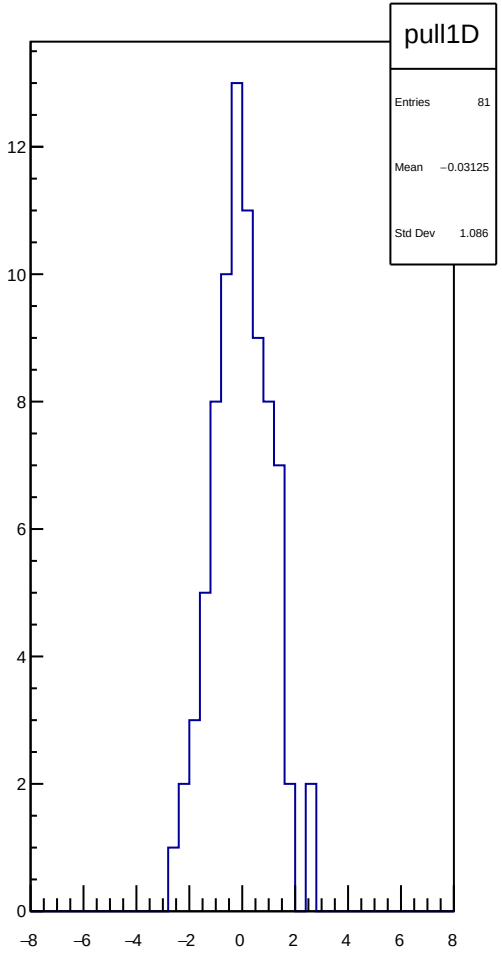

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.67 / 80
p0 −4.291 ± 1.09
pull
Entries 81
Mean 224.2
Std Dev 187.2

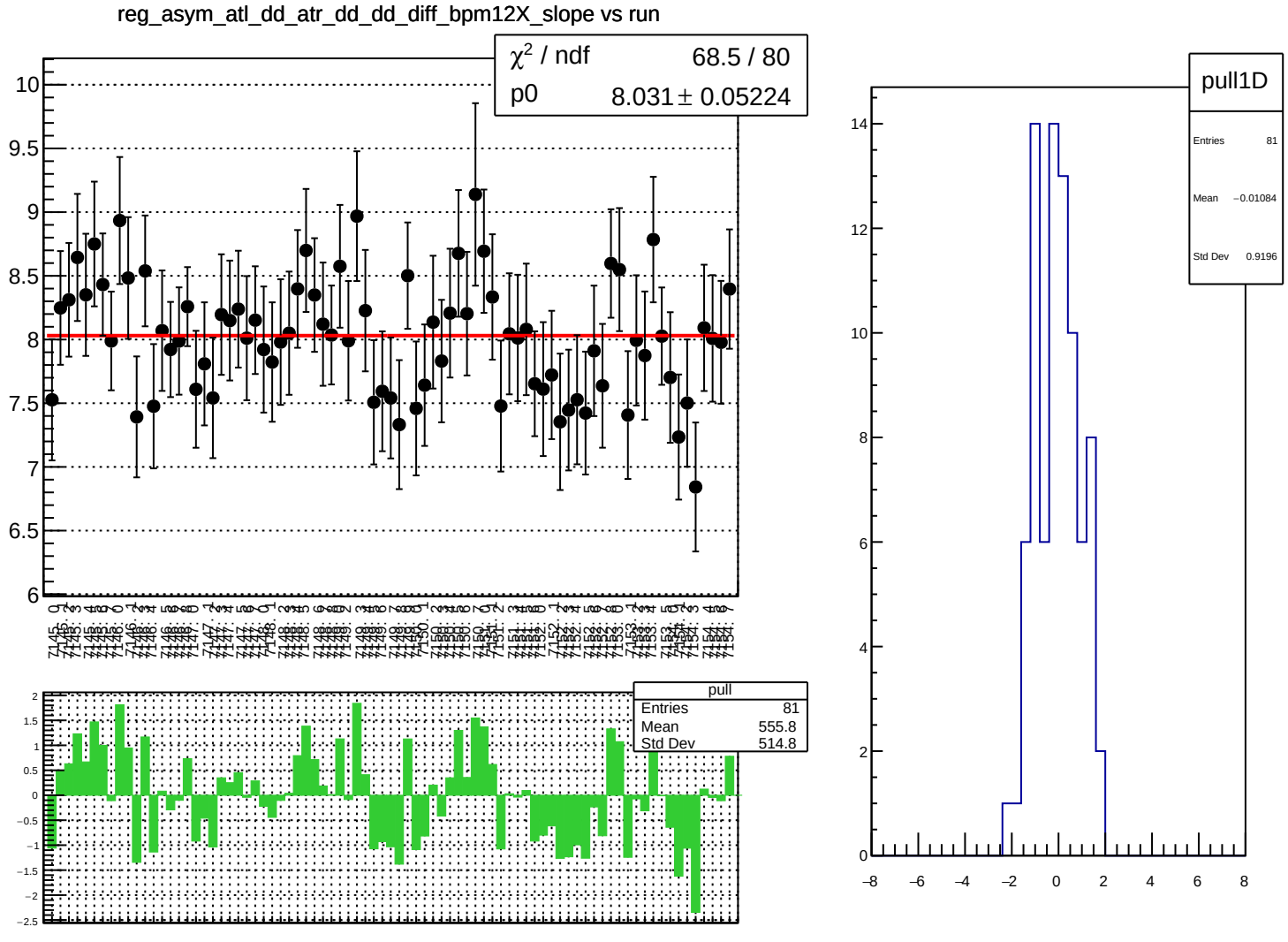

pull1D
Entries 81
Mean 0.02754
Std Dev 1.034

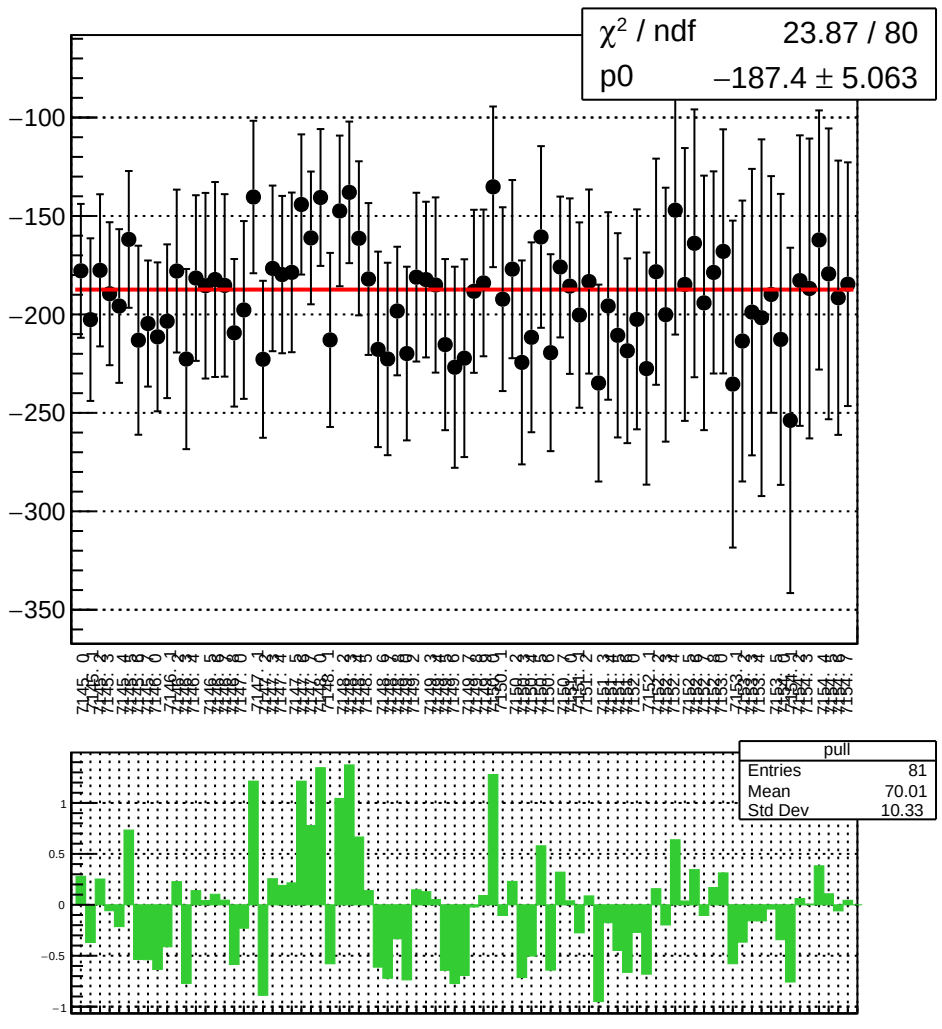

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.07 / 80
p0 39.68 ± 1.294
pull
Entries 81
Mean 147.7
Std Dev 109.3

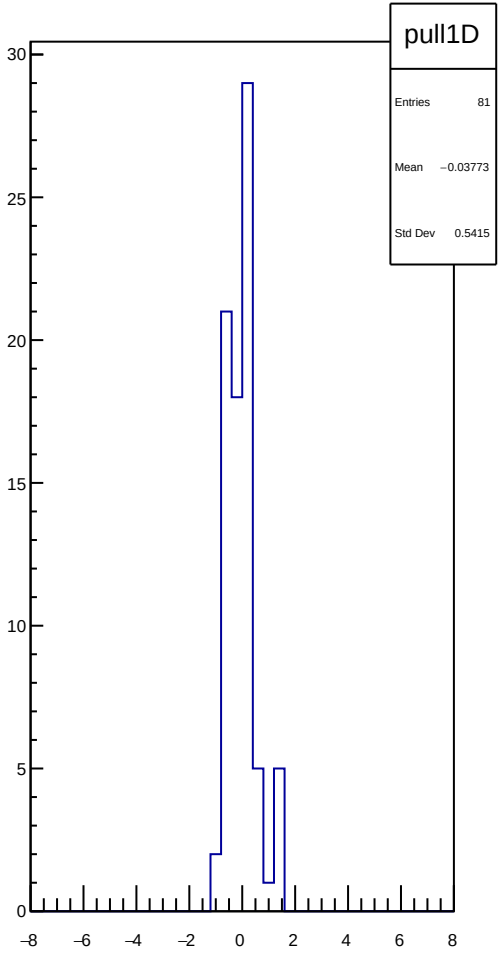

pull1D
Entries 81
Mean 0.04093
Std Dev 0.9934

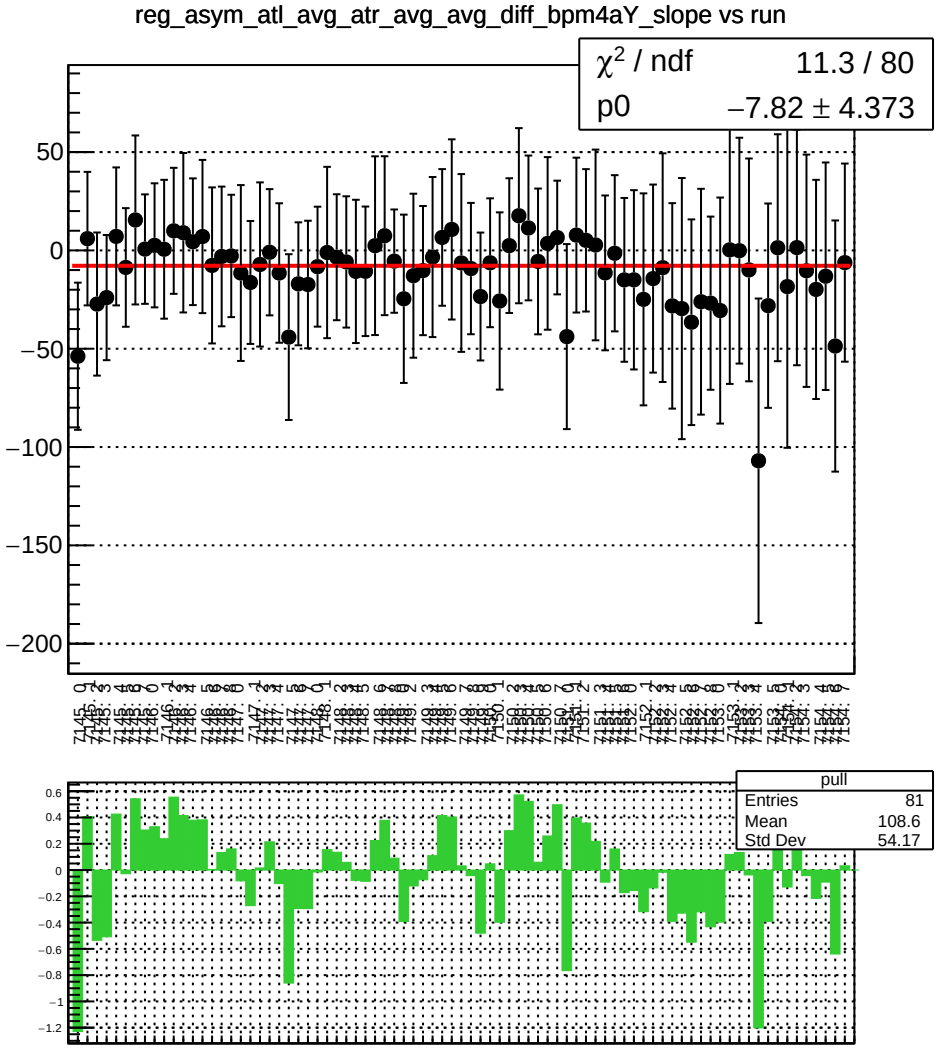

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 95.56 / 80
p0 0.3038 ± 1.19
pull
Entries 81
Mean 205.6
Std Dev 168

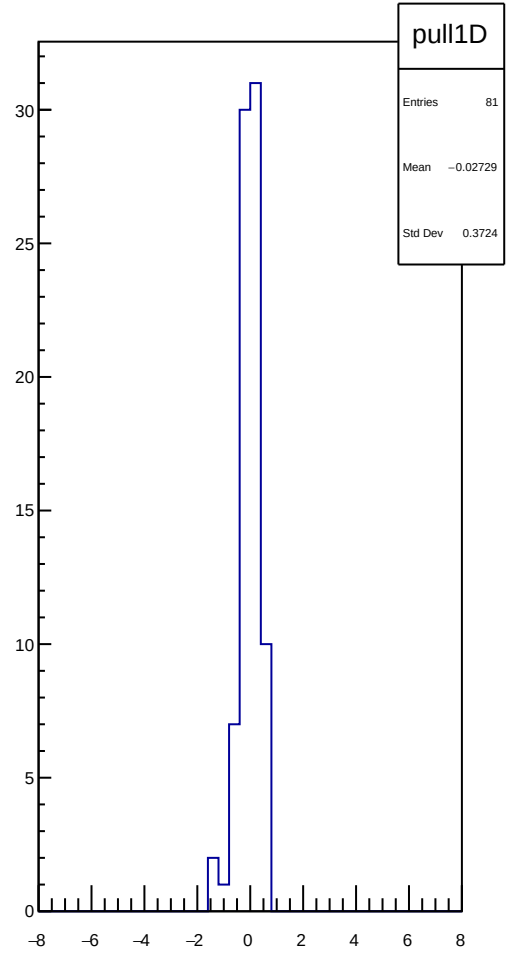

pull1D
Entries 81
Mean −0.03125
Std Dev 1.086

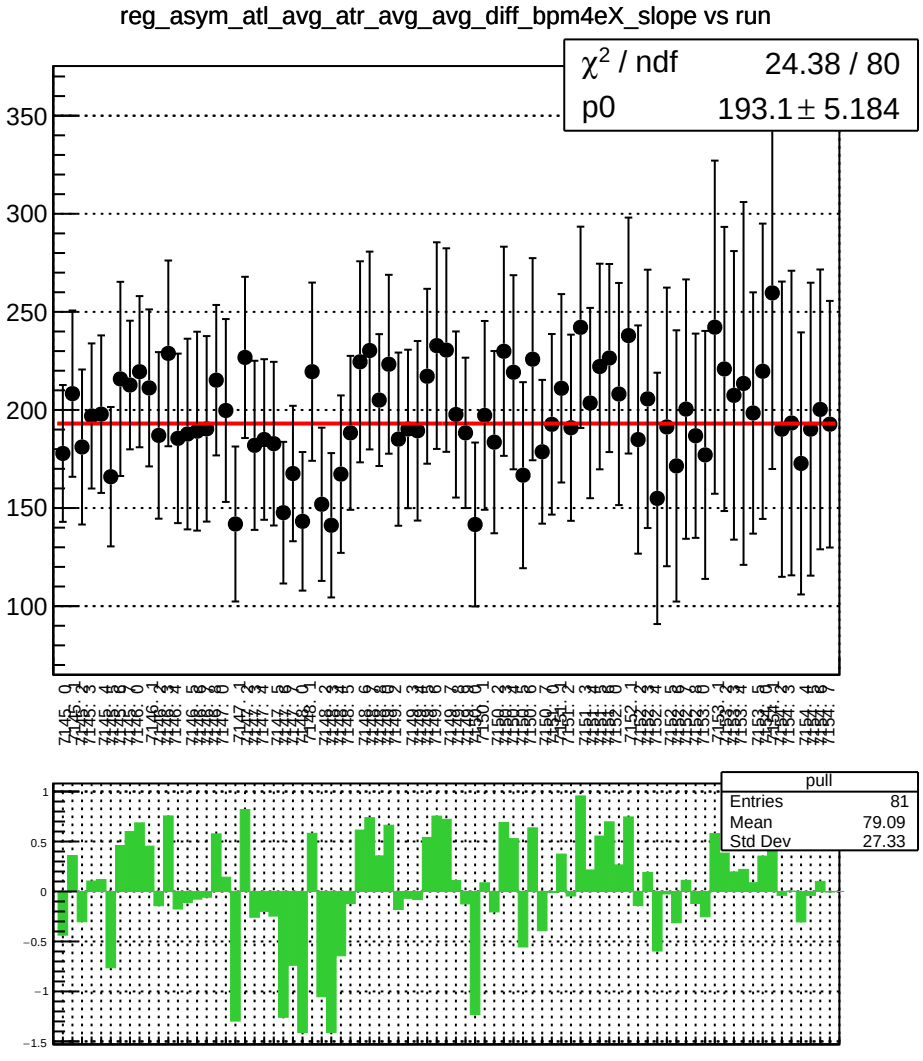

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 68.5 / 80
p0 8.031 ± 0.05224
pull
Entries 81
Mean 555.8
Std Dev 514.8
pull1D
Entries 81
Mean −0.01084
Std Dev 0.9196

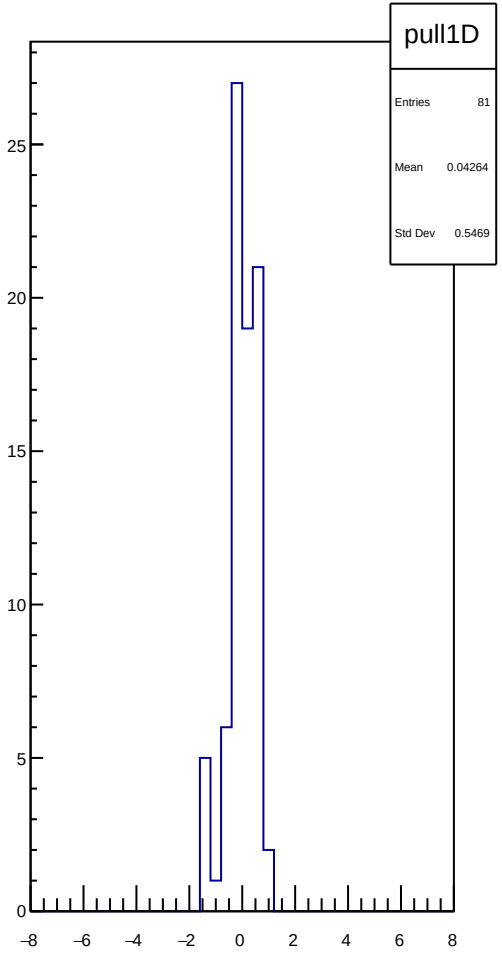

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 23.87 / 80
p0 −187.4 ± 5.063
pull
Entries 81
Mean 70.01
Std Dev 10.33

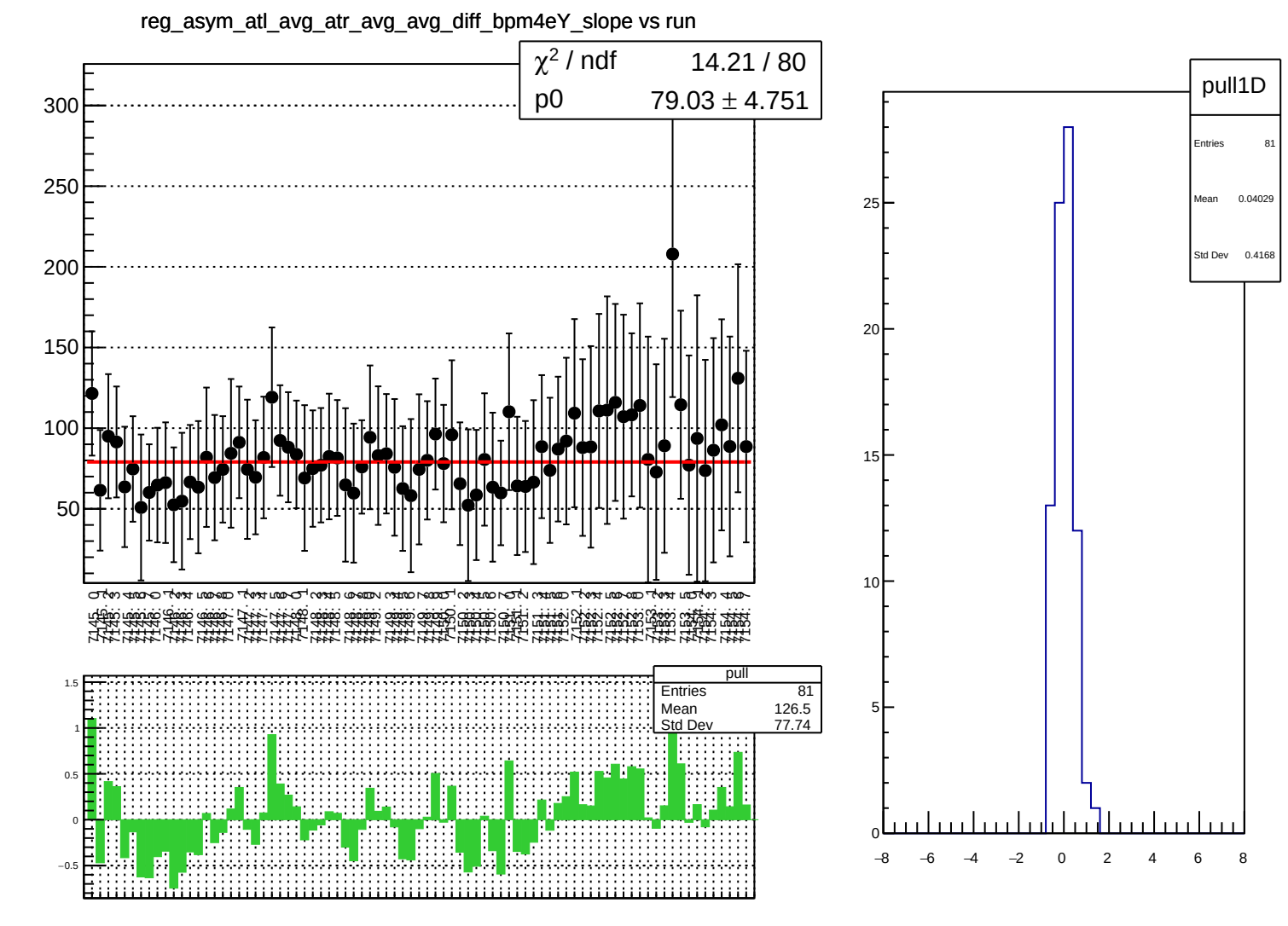

pull1D
Entries 81
Mean −0.03773
Std Dev 0.5415

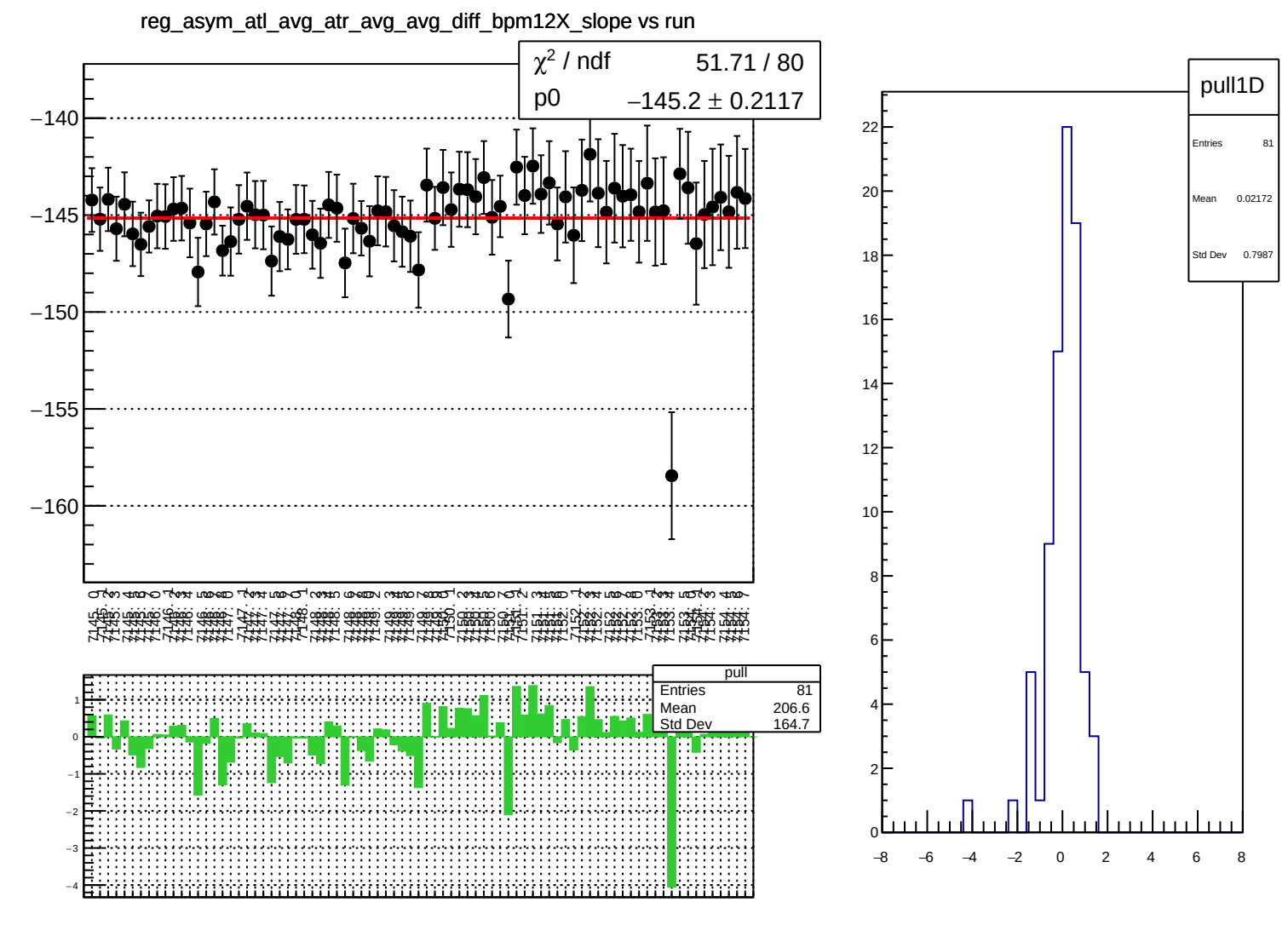

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.3 / 80
p0 −7.82 ± 4.373
pull
Entries 81
Mean 108.6
Std Dev 54.17

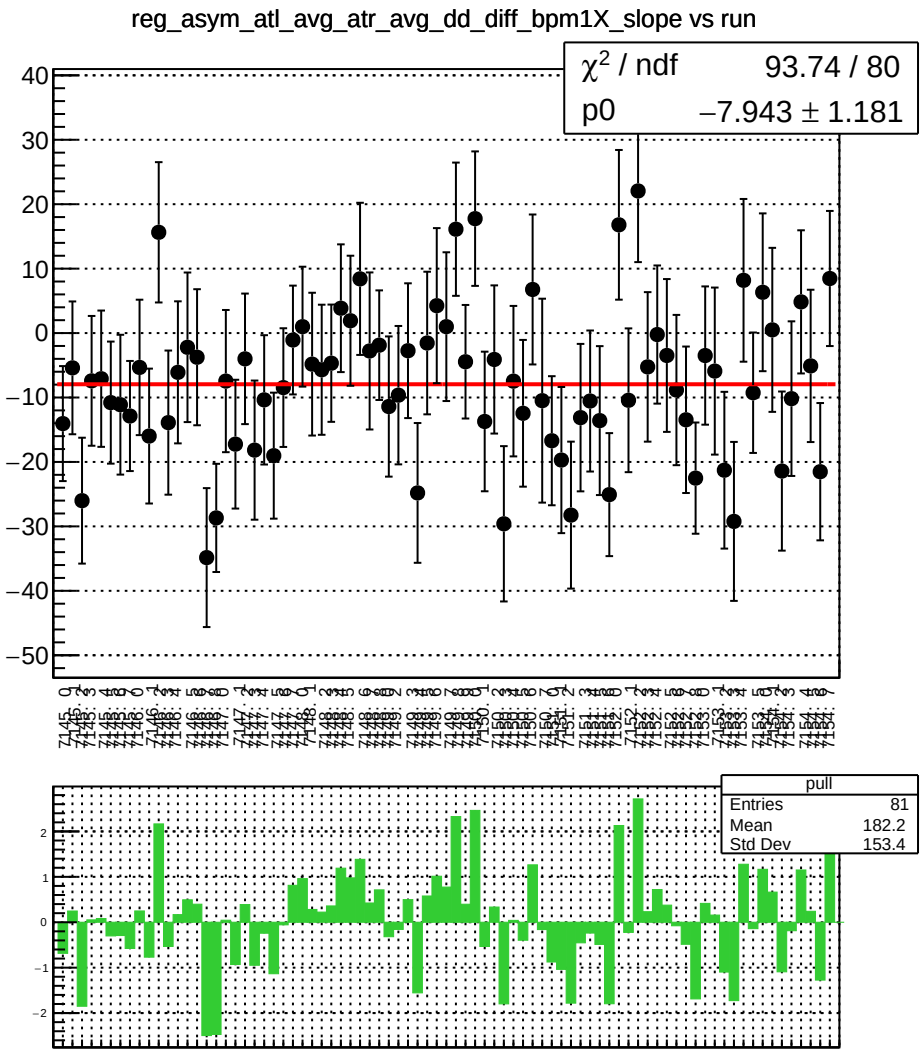

pull1D
Entries 81
Mean −0.02729
Std Dev 0.3724

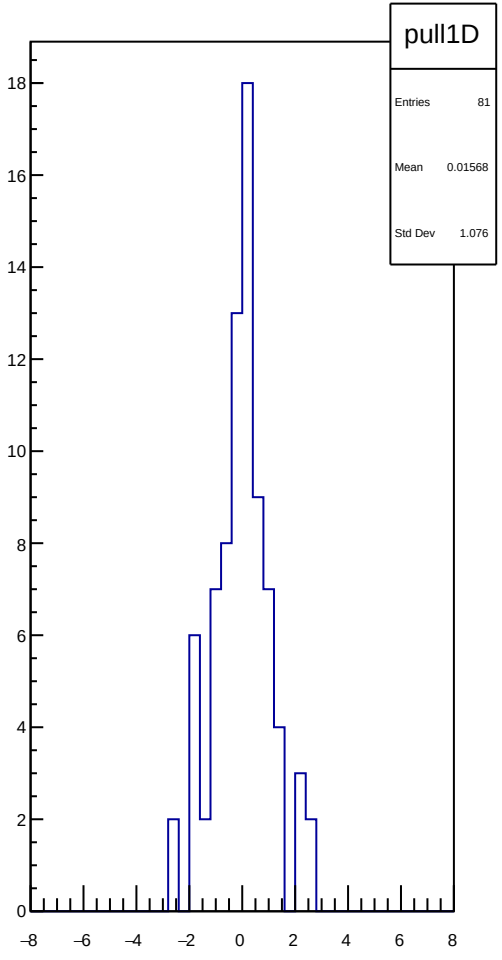

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.38 / 80
p0 193.1 ± 5.184
pull
Entries 81
Mean 79.09
Std Dev 27.33

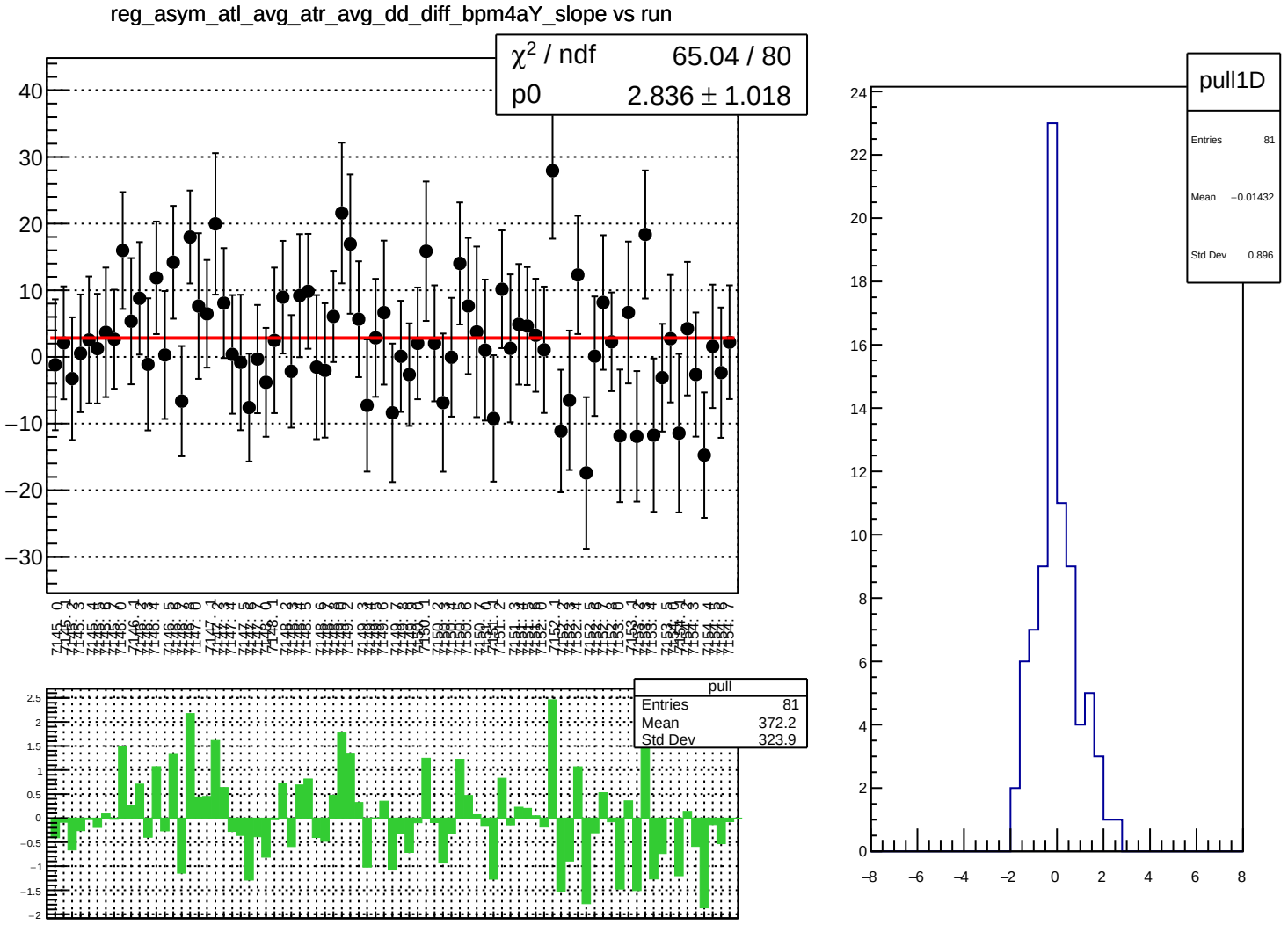

pull1D
Entries 81
Mean 0.04264
Std Dev 0.5469

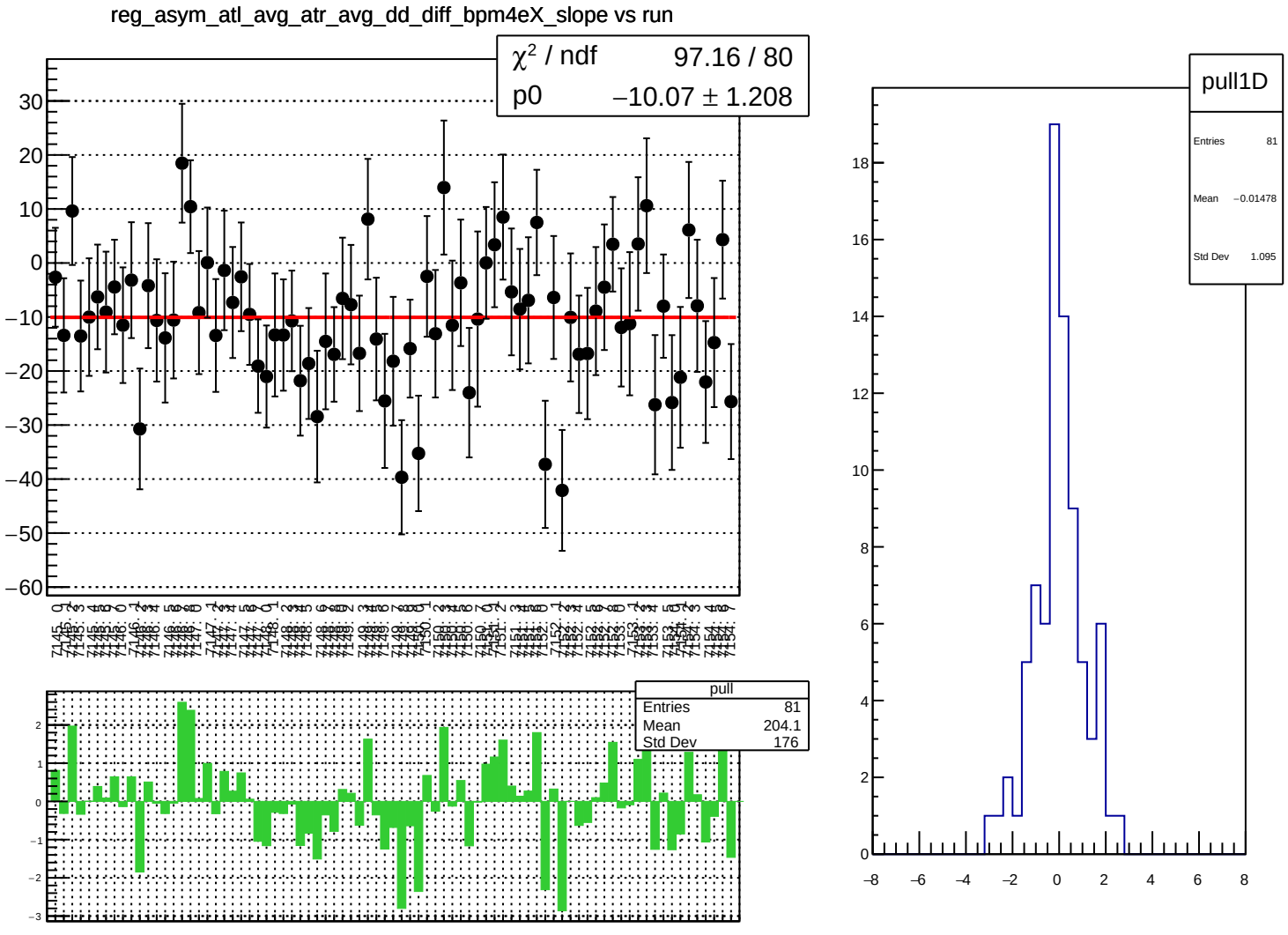

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.21 / 80
p0 79.03 ± 4.751
300
250
200
150
100
50
pull
Entries 81
Mean 126.5
Std Dev 77.74
1.5
1
0.5
0
−0.5
pull1D
Entries 81
Mean 0.04029
Std Dev 0.4168
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

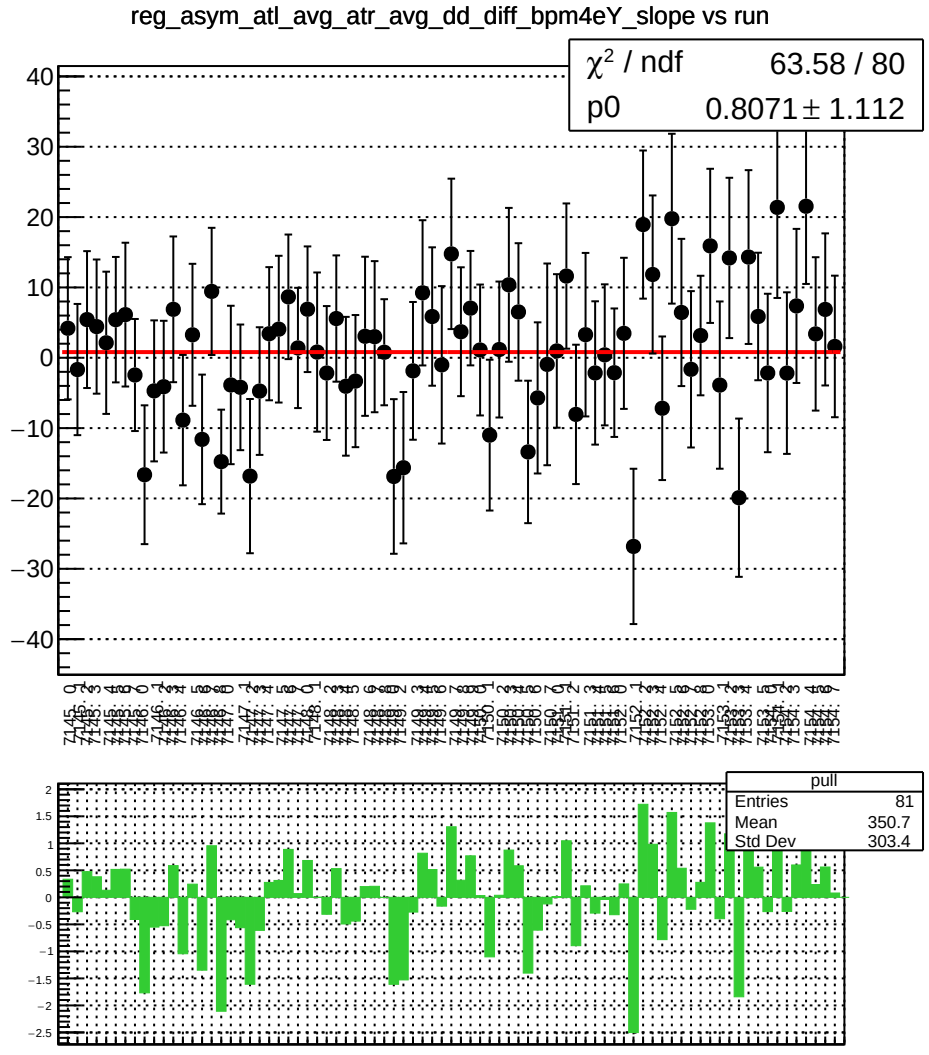

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 51.71 / 80
p0 −145.2 ± 0.2117
−140
−145
−150
−155
−160
pull
Entries 81
Mean 206.6
Std Dev 164.7
pull1D
Entries 81
Mean 0.02172
Std Dev 0.7987

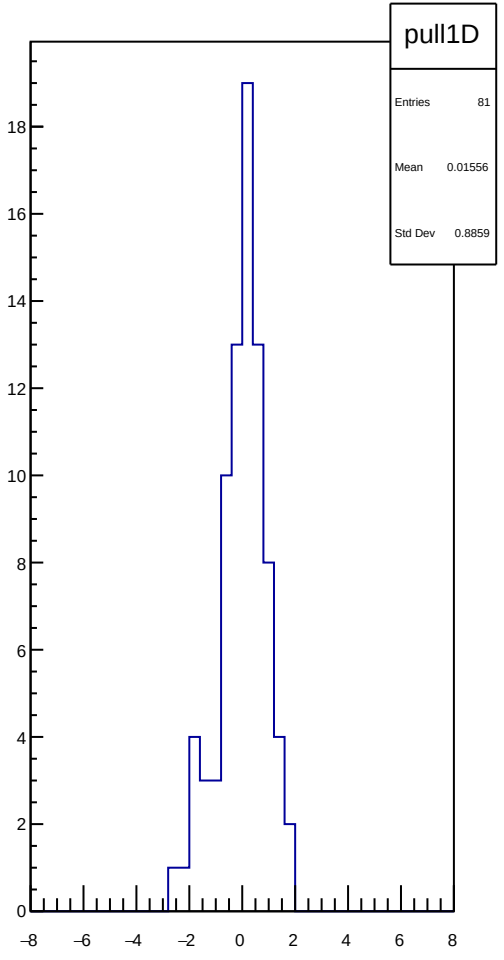

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 93.74 / 80
p0 −7.943 ± 1.181
pull
Entries 81
Mean 182.2
Std Dev 153.4

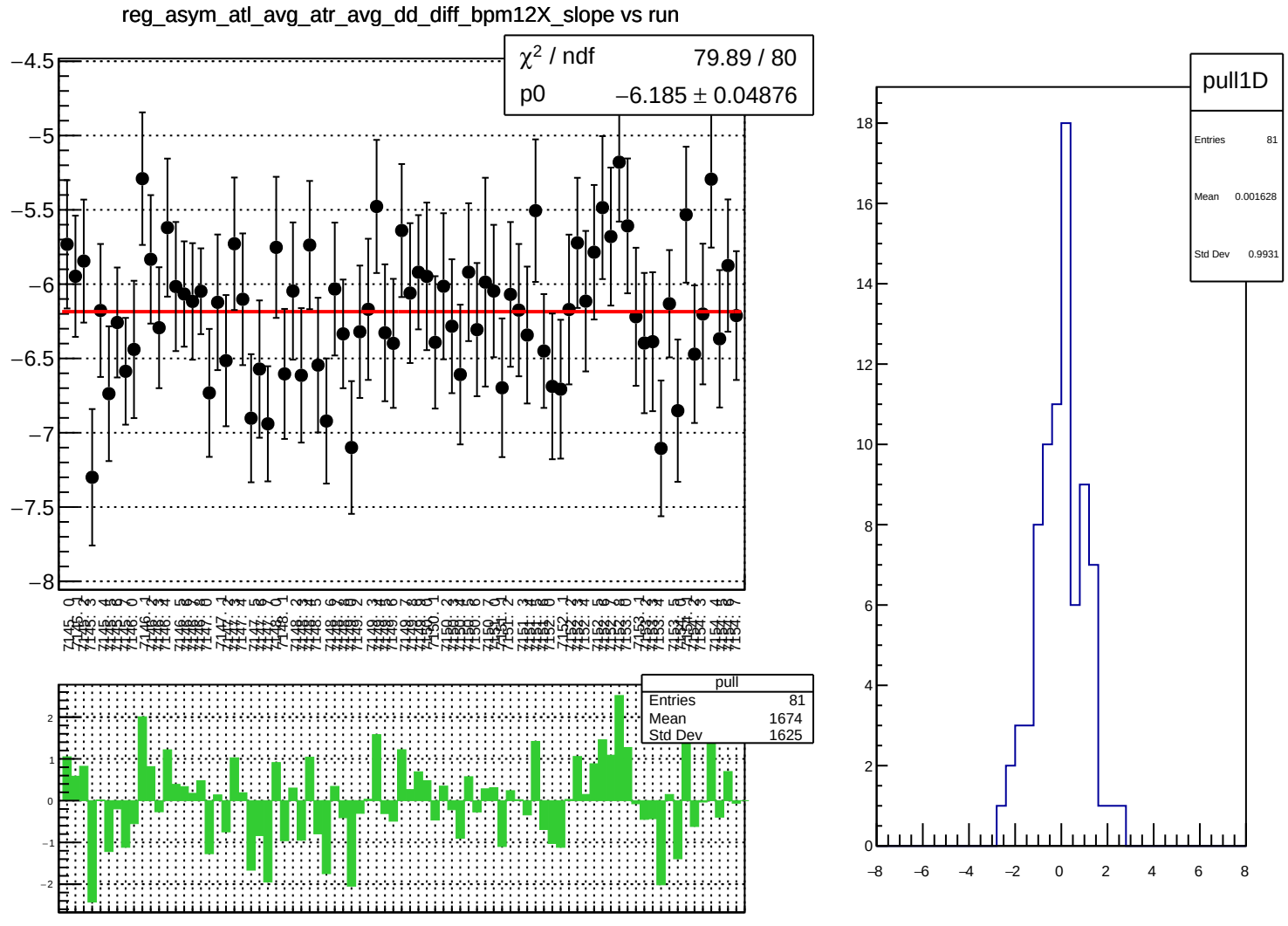

pull1D
Entries 81
Mean 0.01568
Std Dev 1.076

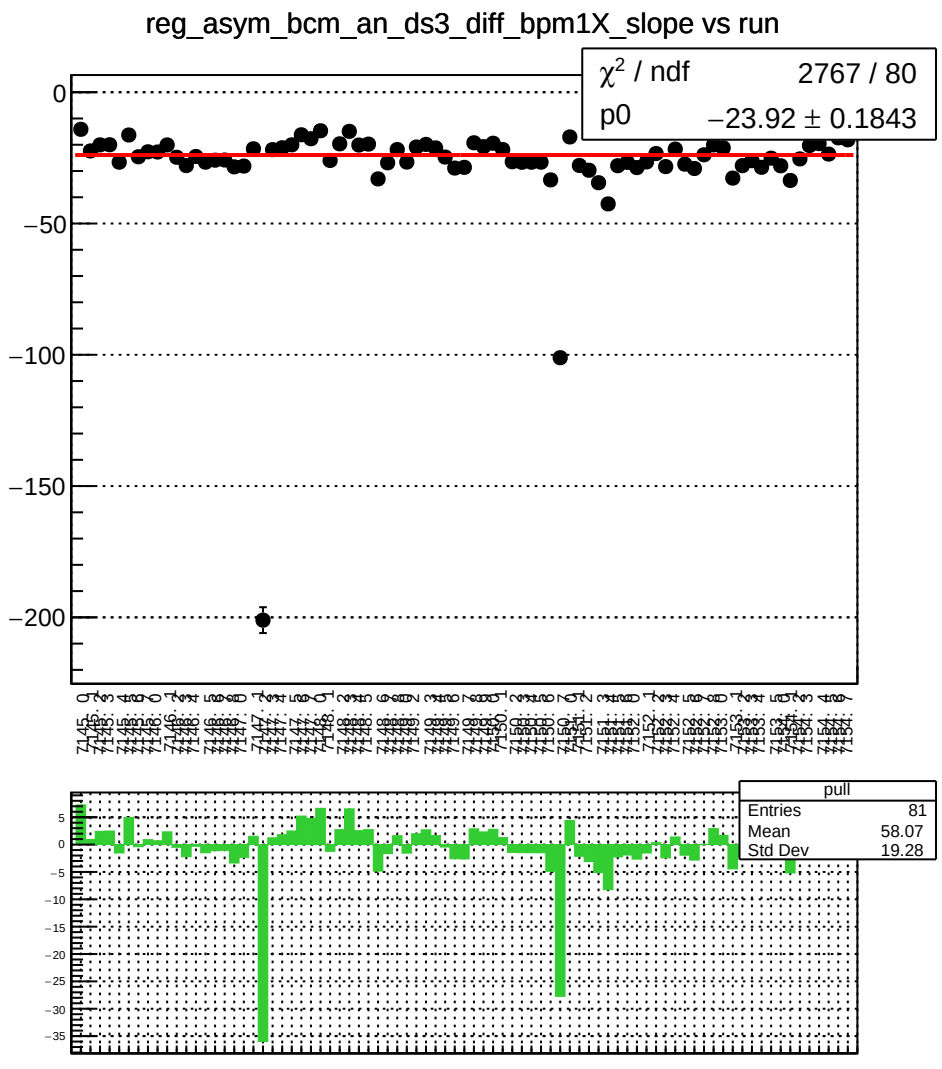

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.04 / 80
p0 2.836 ± 1.018
pull
Entries 81
Mean 372.2
Std Dev 323.9
pull1D
Entries 81
Mean −0.01432
Std Dev 0.896

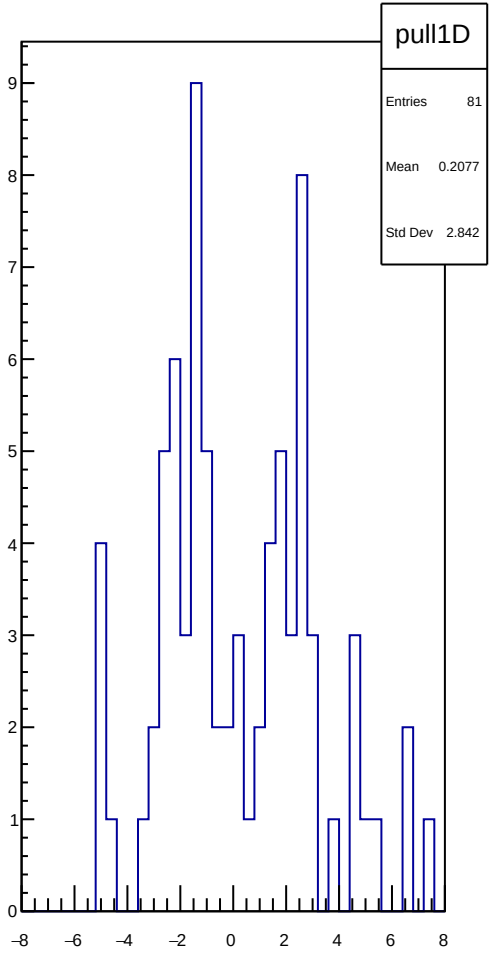

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 97.16 / 80
p0 −10.07 ± 1.208
pull
Entries 81
Mean 204.1
Std Dev 176
pull1D
Entries 81
Mean −0.01478
Std Dev 1.095

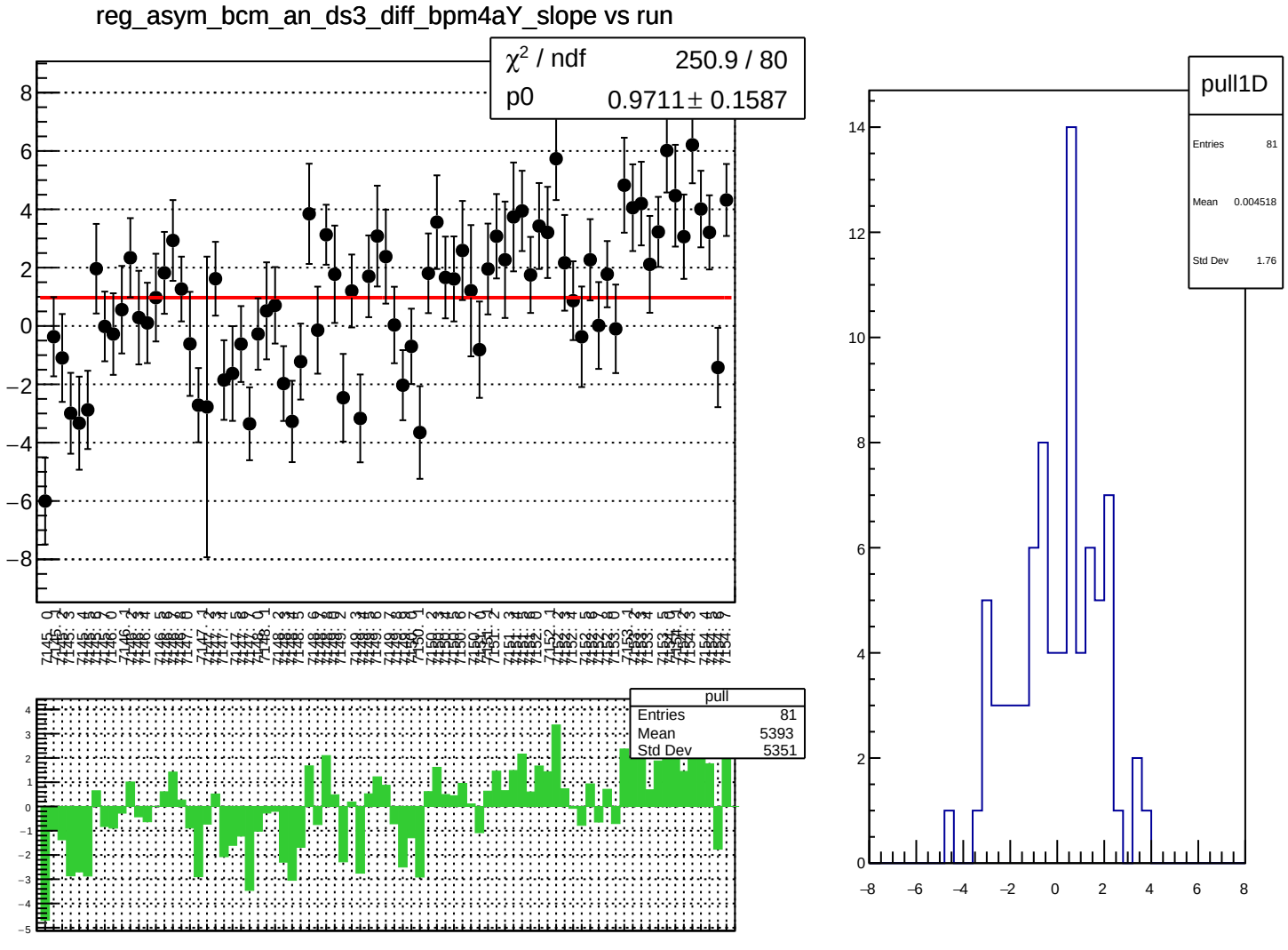

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 63.58 / 80
p0 0.8071 ± 1.112
pull
Entries 81
Mean 350.7
Std Dev 303.4

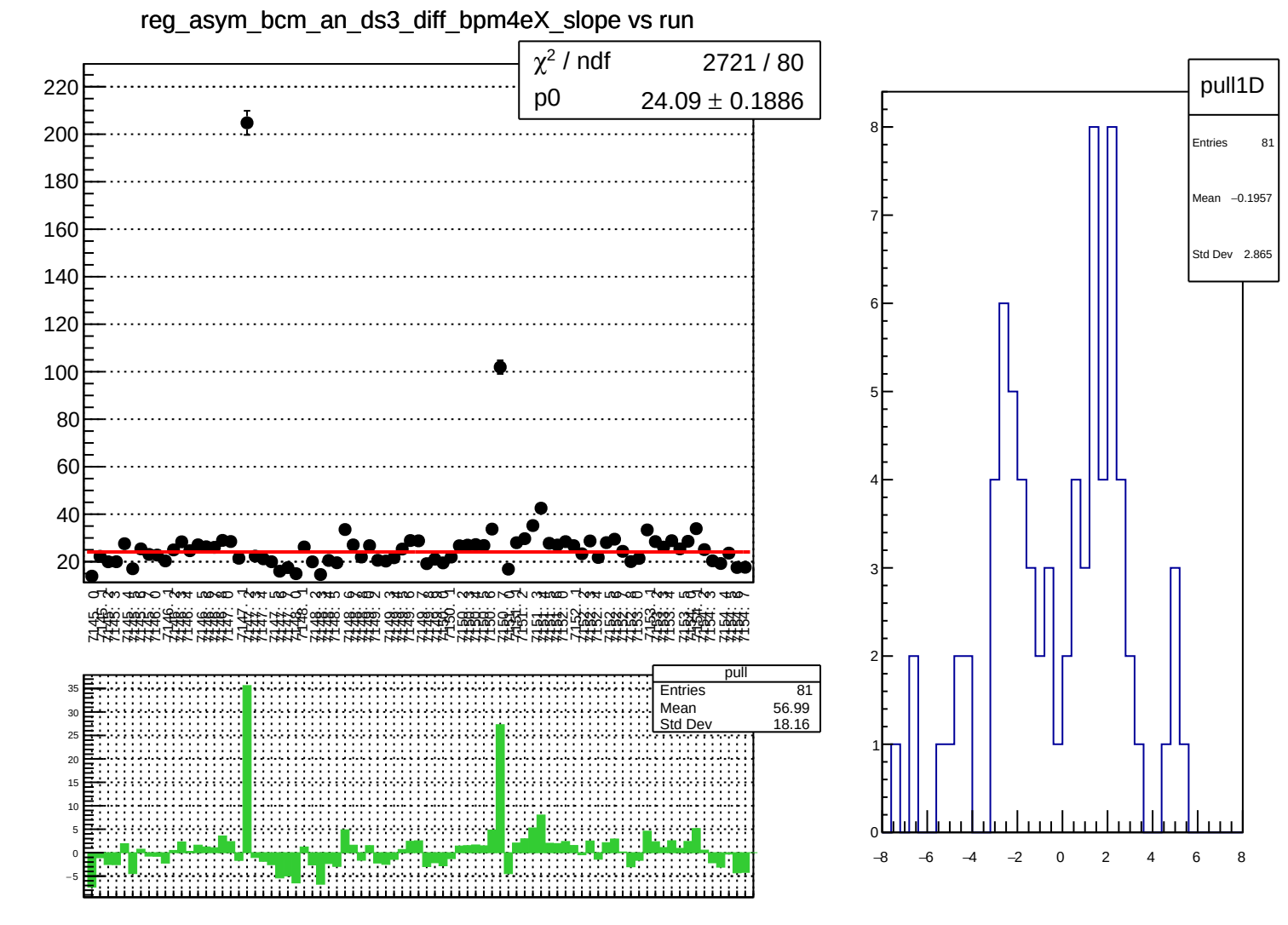

pull1D
Entries 81
Mean 0.01556
Std Dev 0.8859

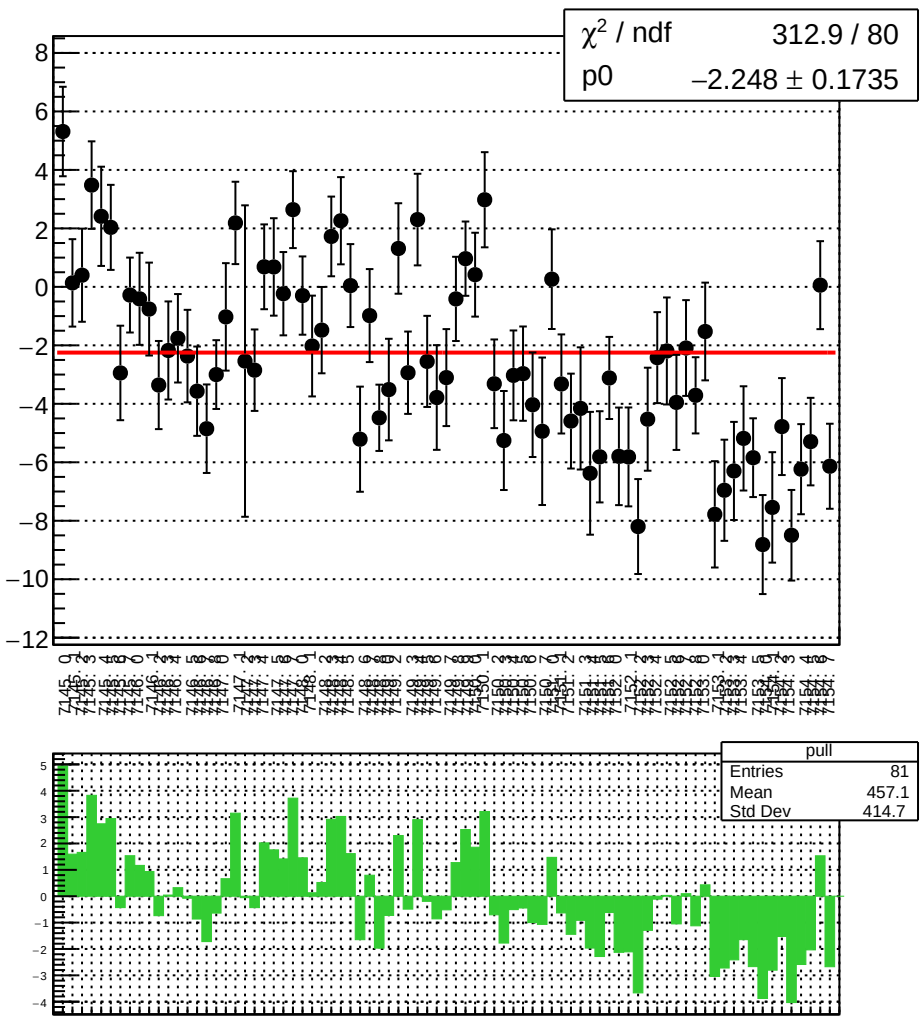

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 79.89 / 80
p0 −6.185 ± 0.04876
pull
Entries 81
Mean 1674
Std Dev 1625
pull1D
Entries 81
Mean 0.001628
Std Dev 0.9931

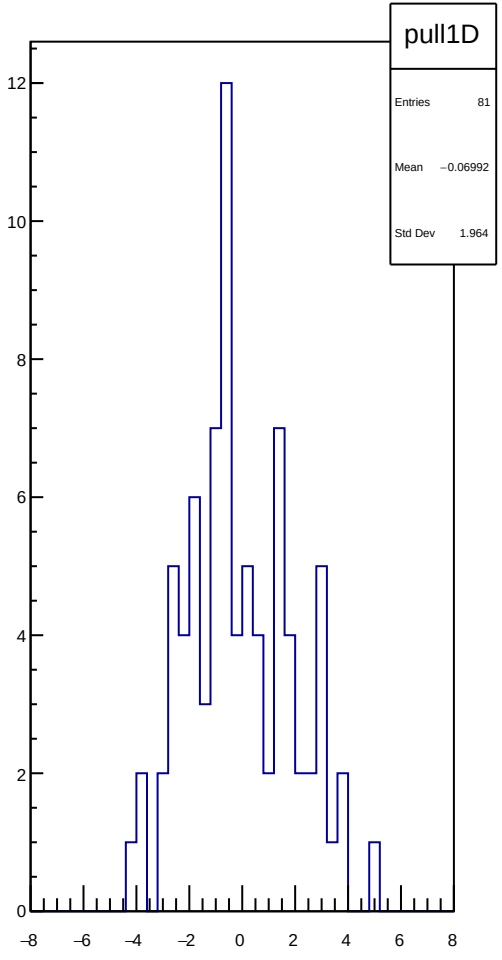

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 2767 / 80
p0 −23.92 ± 0.1843
pull
Entries 81
Mean 58.07
Std Dev 19.28

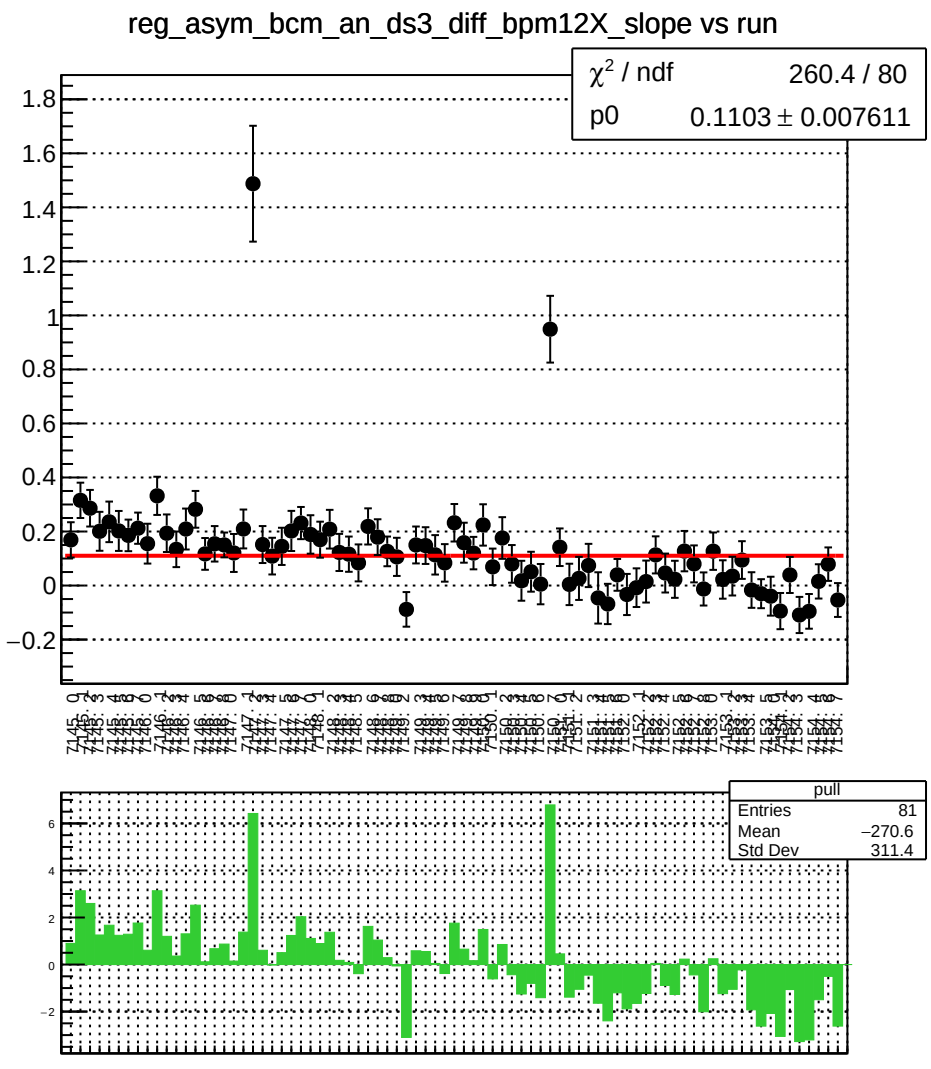

pull1D
Entries 81
Mean 0.2077
Std Dev 2.842

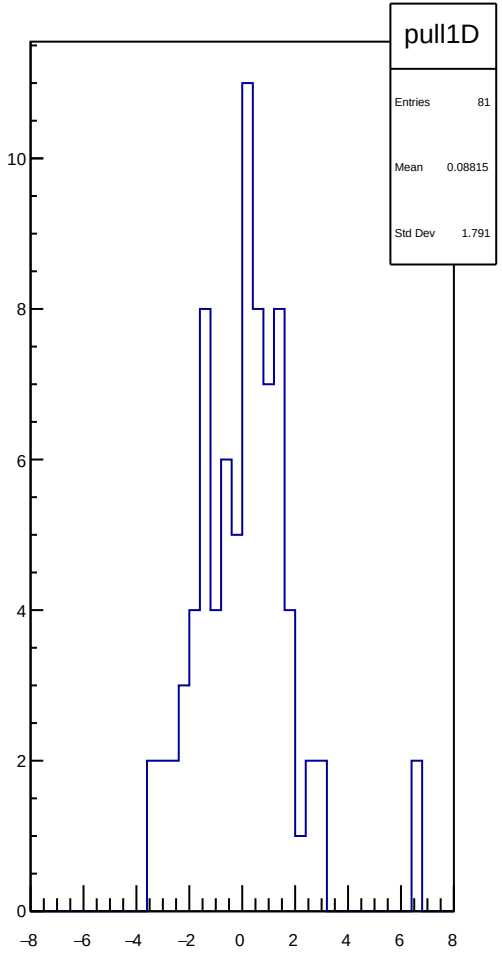

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 250.9 / 80
p0 0.9711 ± 0.1587
pull
Entries 81
Mean 5393
Std Dev 5351
pull1D
Entries 81
Mean 0.004518
Std Dev 1.76

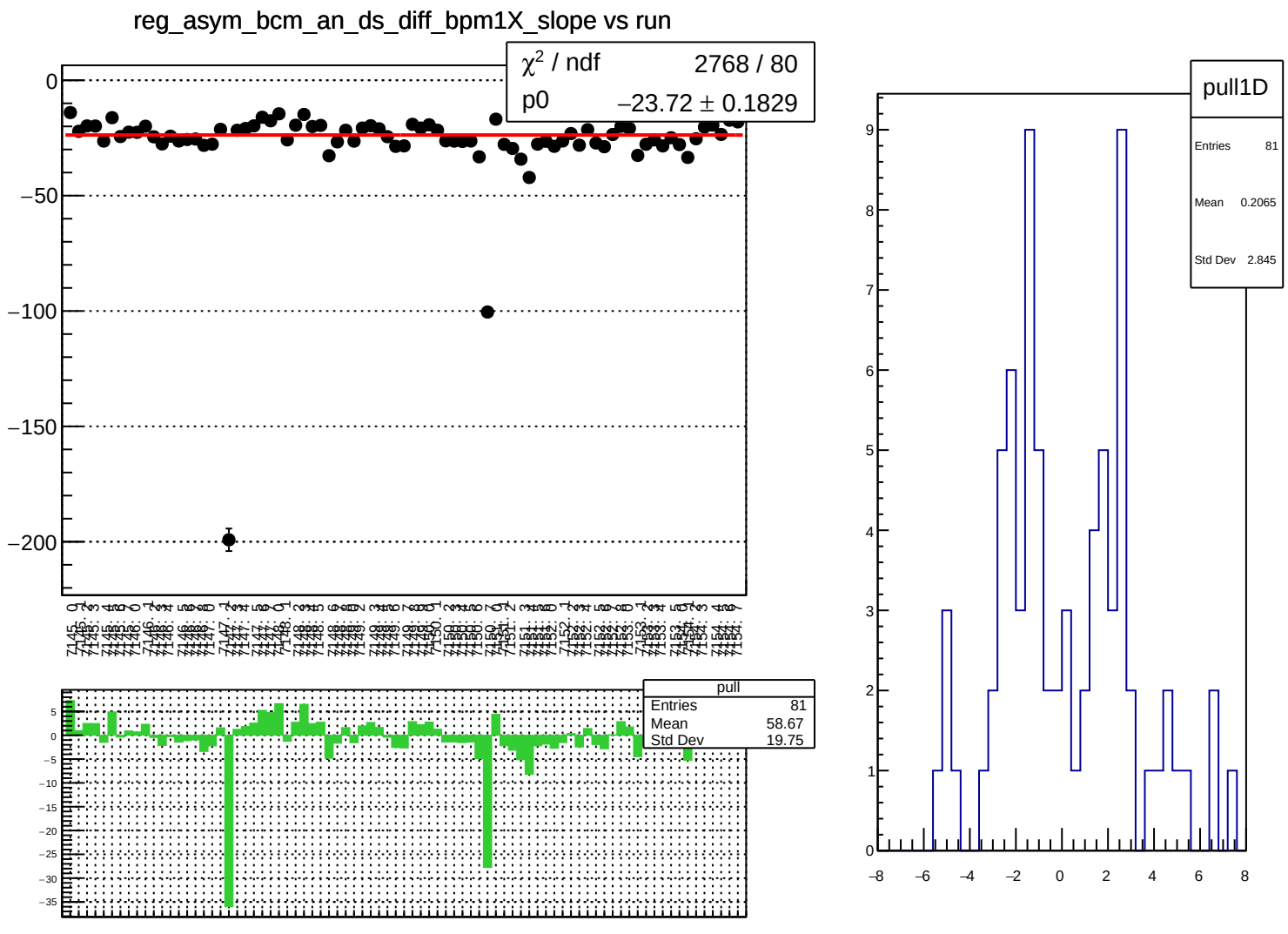

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 2721 / 80
p0 24.09 ± 0.1886
pull
Entries 81
Mean 56.99
Std Dev 18.16
pull1D
Entries 81
Mean −0.1957
Std Dev 2.865

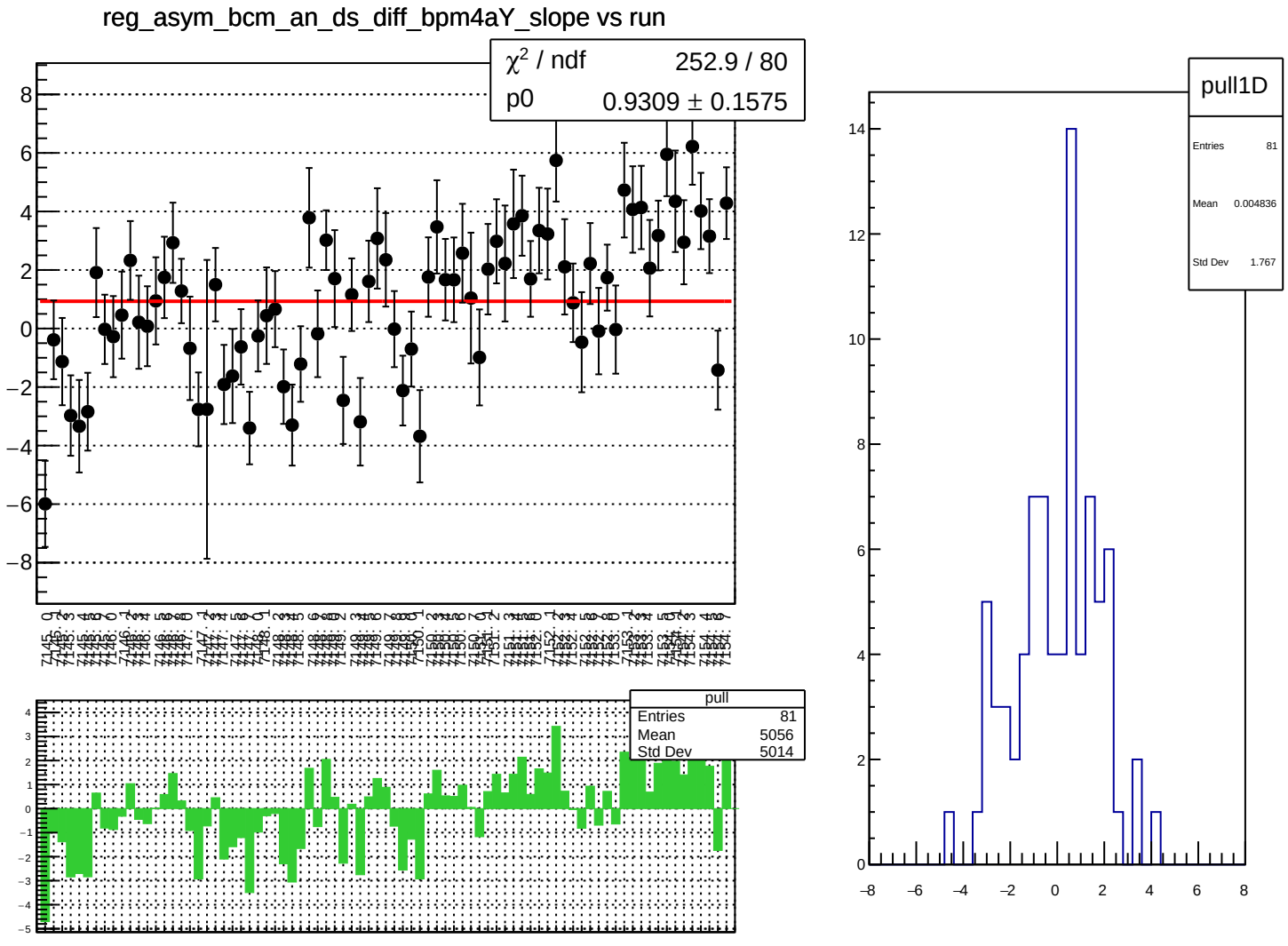

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 312.9 / 80
p0 −2.248 ± 0.1735
pull
Entries 81
Mean 457.1
Std Dev 414.7

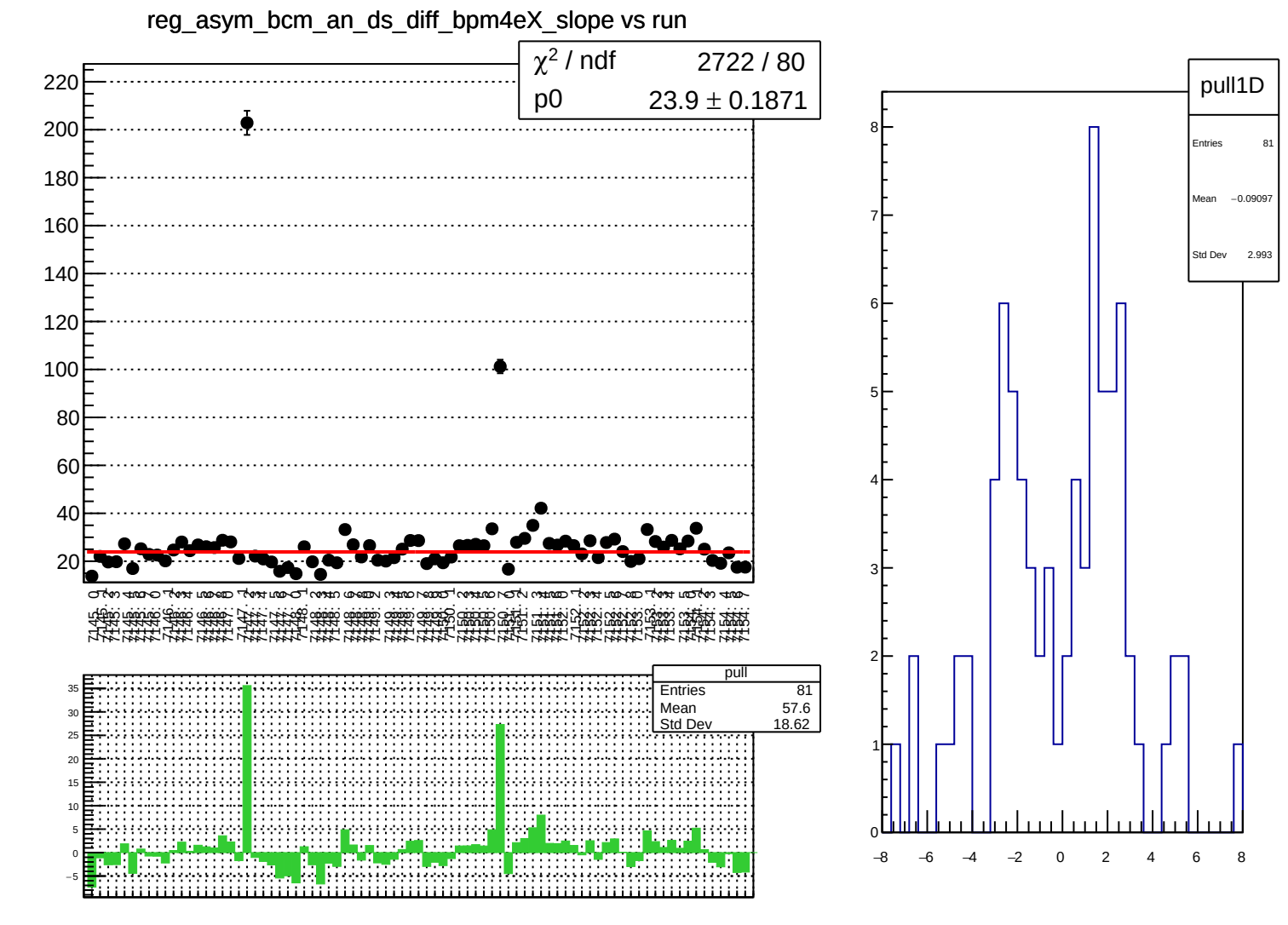

pull1D
Entries 81
Mean −0.06992
Std Dev 1.964

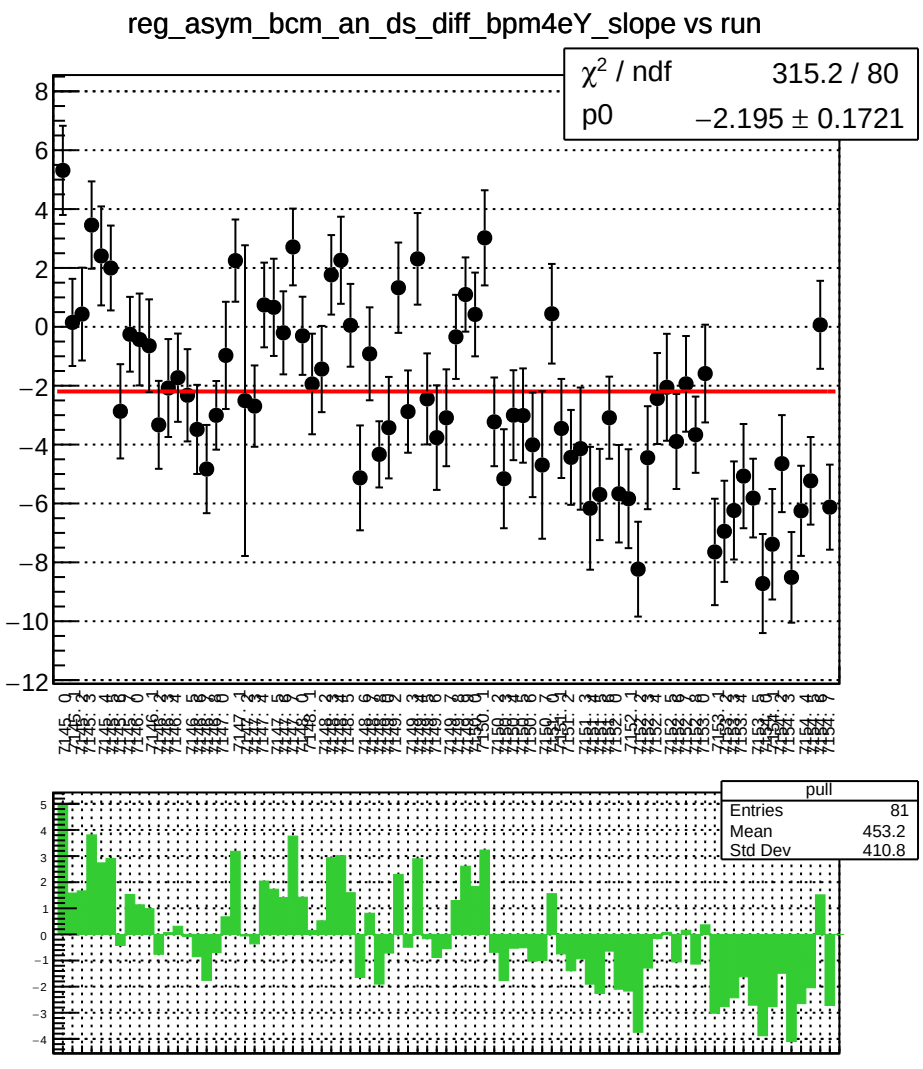

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 260.4 / 80
p0 0.1103 ± 0.007611
pull
Entries 81
Mean −270.6
Std Dev 311.4

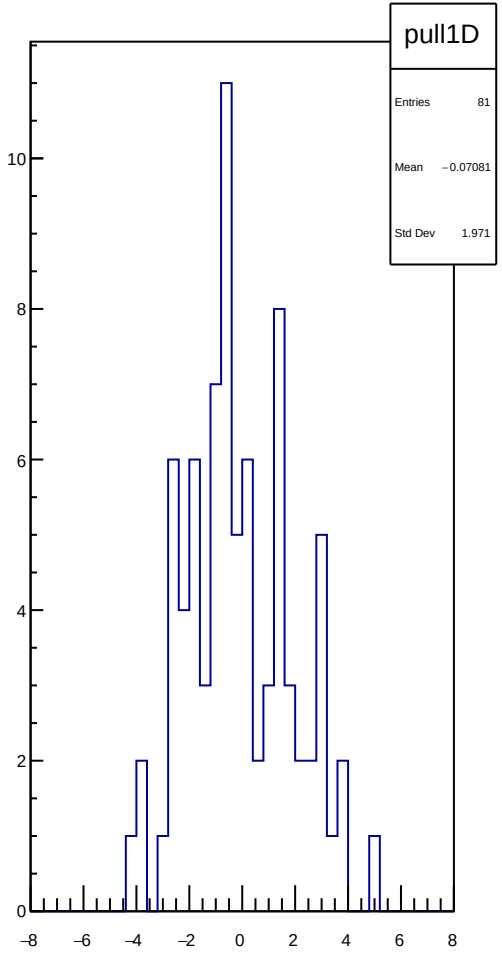

pull1D
Entries 81
Mean 0.08815
Std Dev 1.791

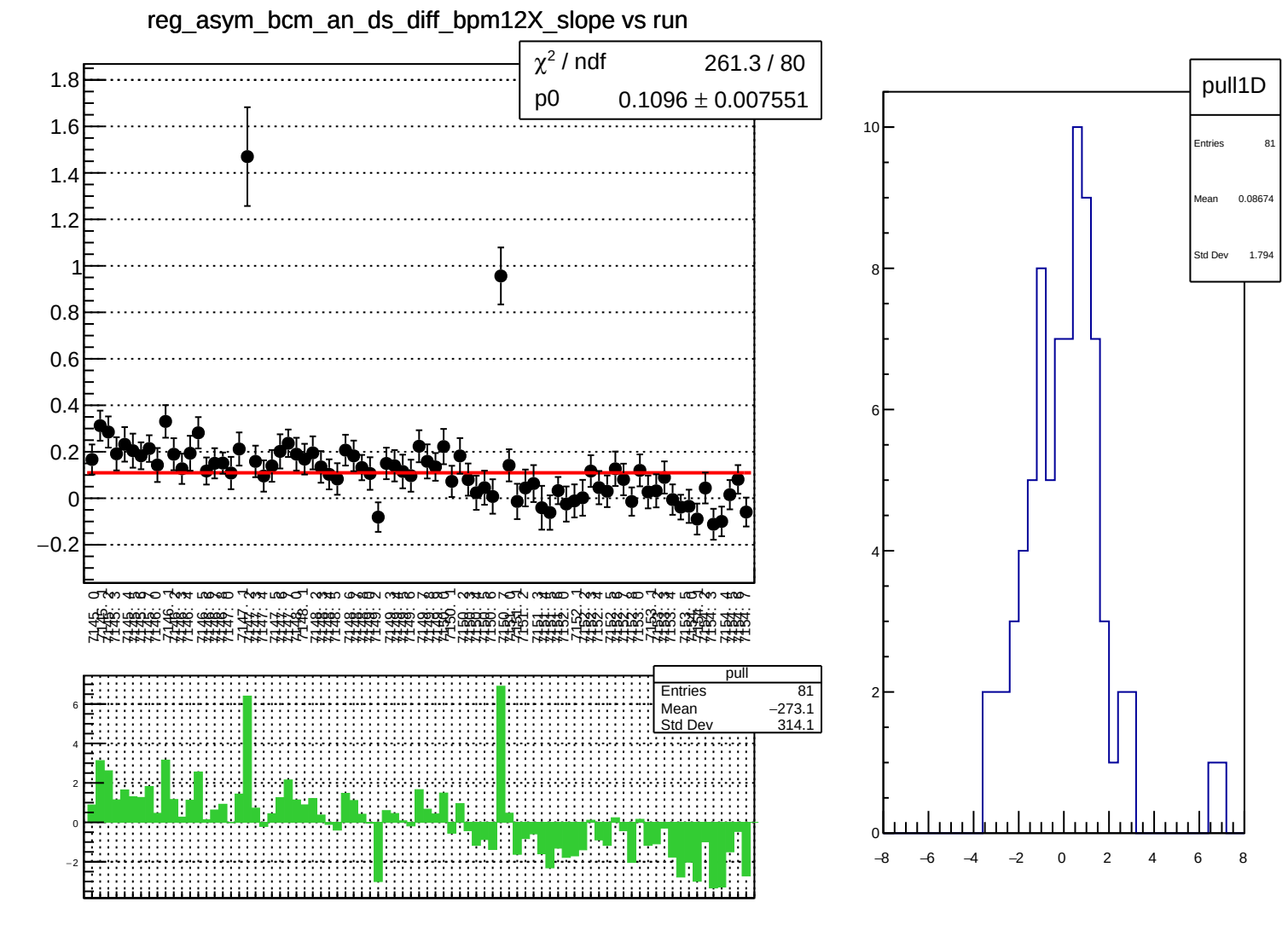

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 2768 / 80
p0 −23.72 ± 0.1829
pull
Entries 81
Mean 58.67
Std Dev 19.75
pull1D
Entries 81
Mean 0.2065
Std Dev 2.845

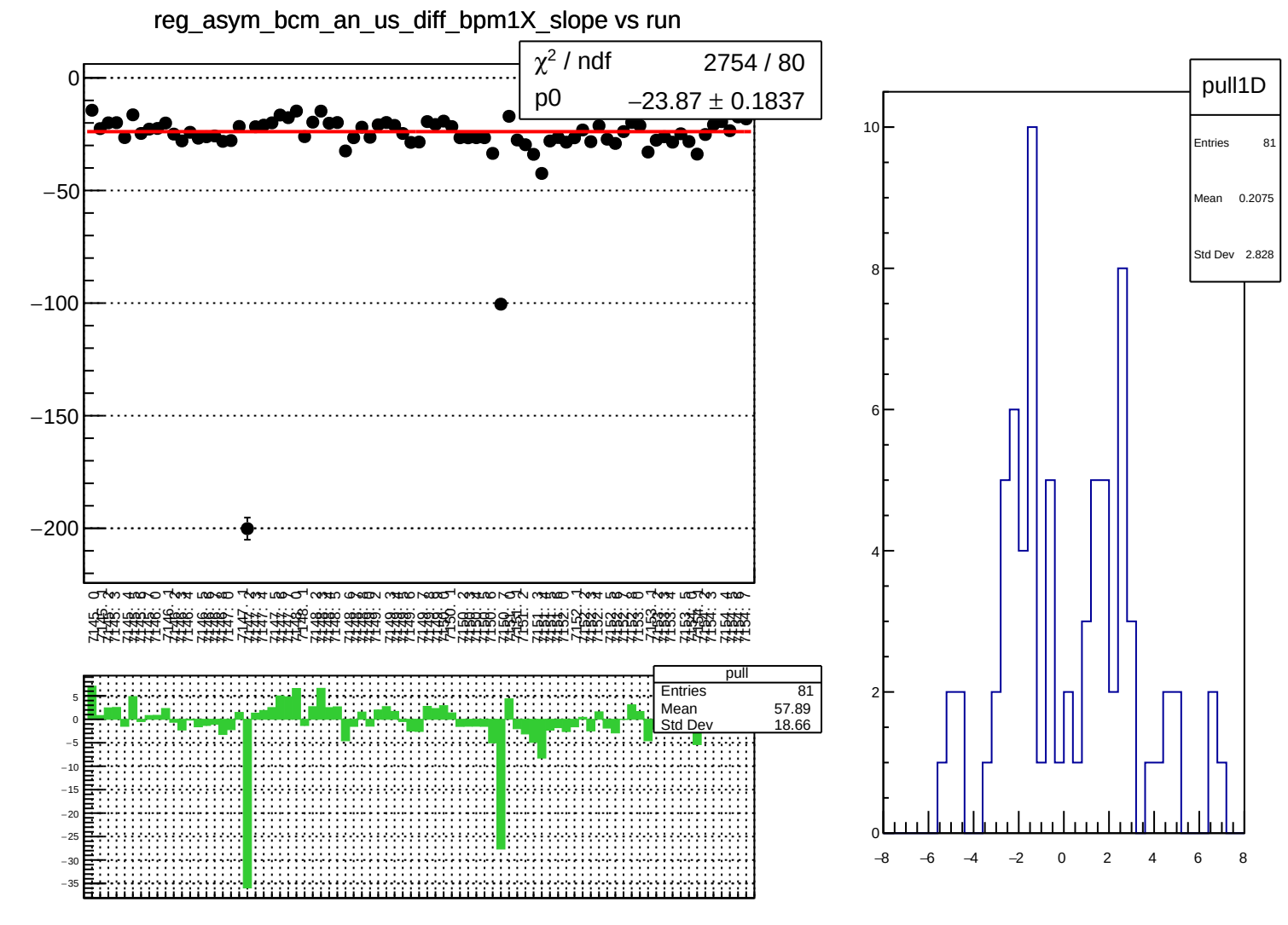

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 252.9 / 80
p0 0.9309 ± 0.1575
pull
Entries 81
Mean 5056
Std Dev 5014
pull1D
Entries 81
Mean 0.004836
Std Dev 1.767

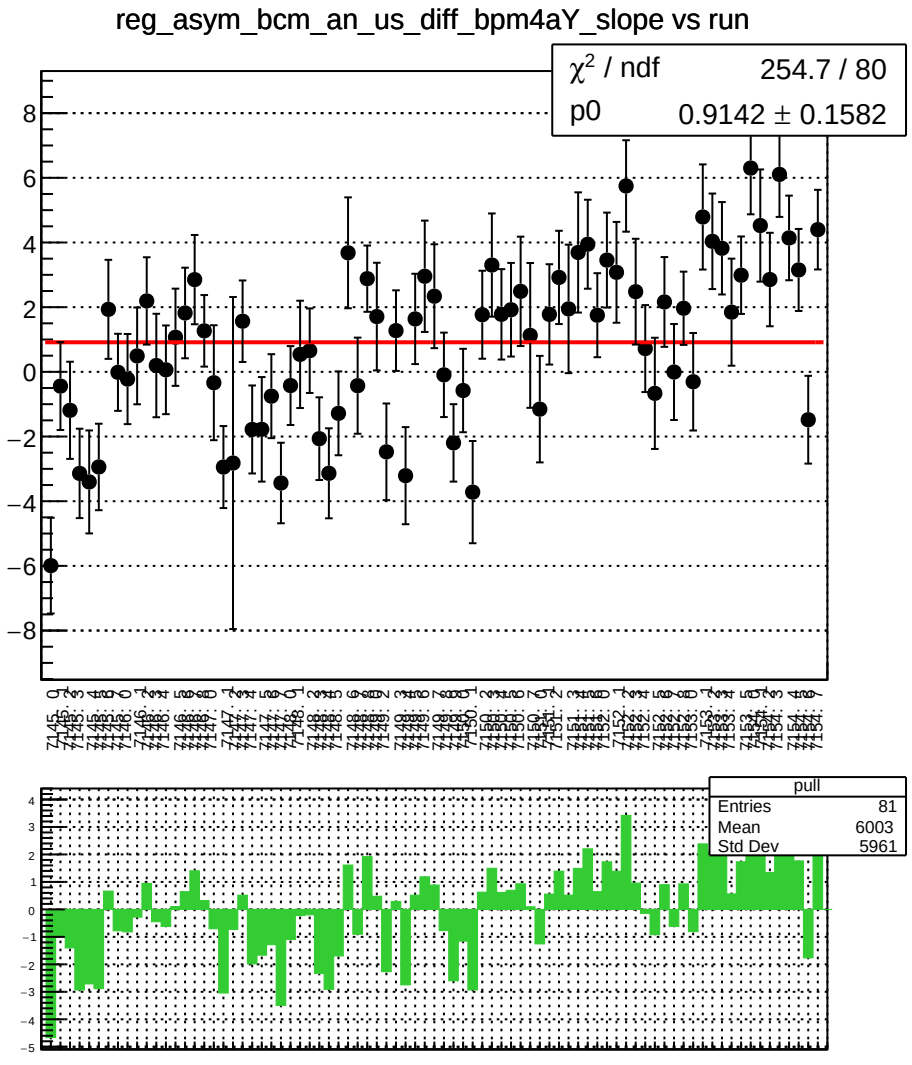

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 2722 / 80
p0 23.9 ± 0.1871
pull
Entries 81
Mean 57.6
Std Dev 18.62
pull1D
Entries 81
Mean −0.09097
Std Dev 2.993

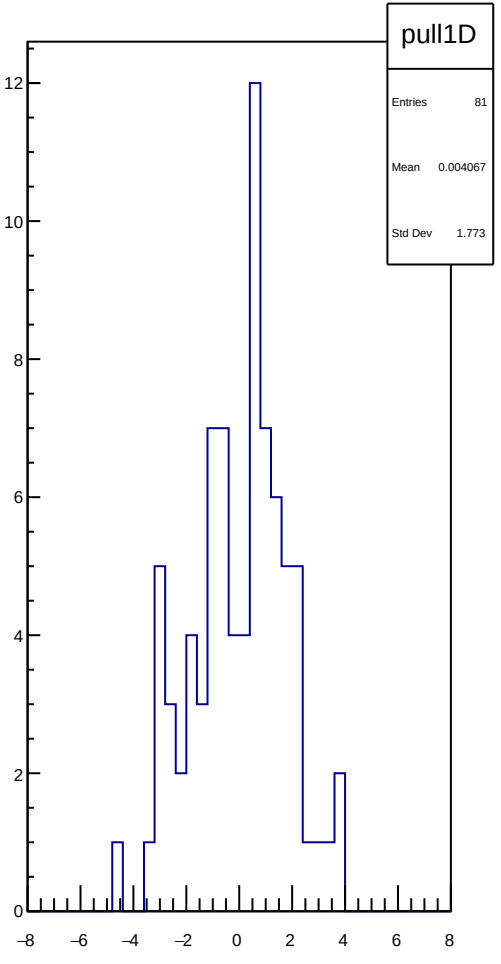

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 315.2 / 80
p0 −2.195 ± 0.1721
pull
Entries 81
Mean 453.2
Std Dev 410.8

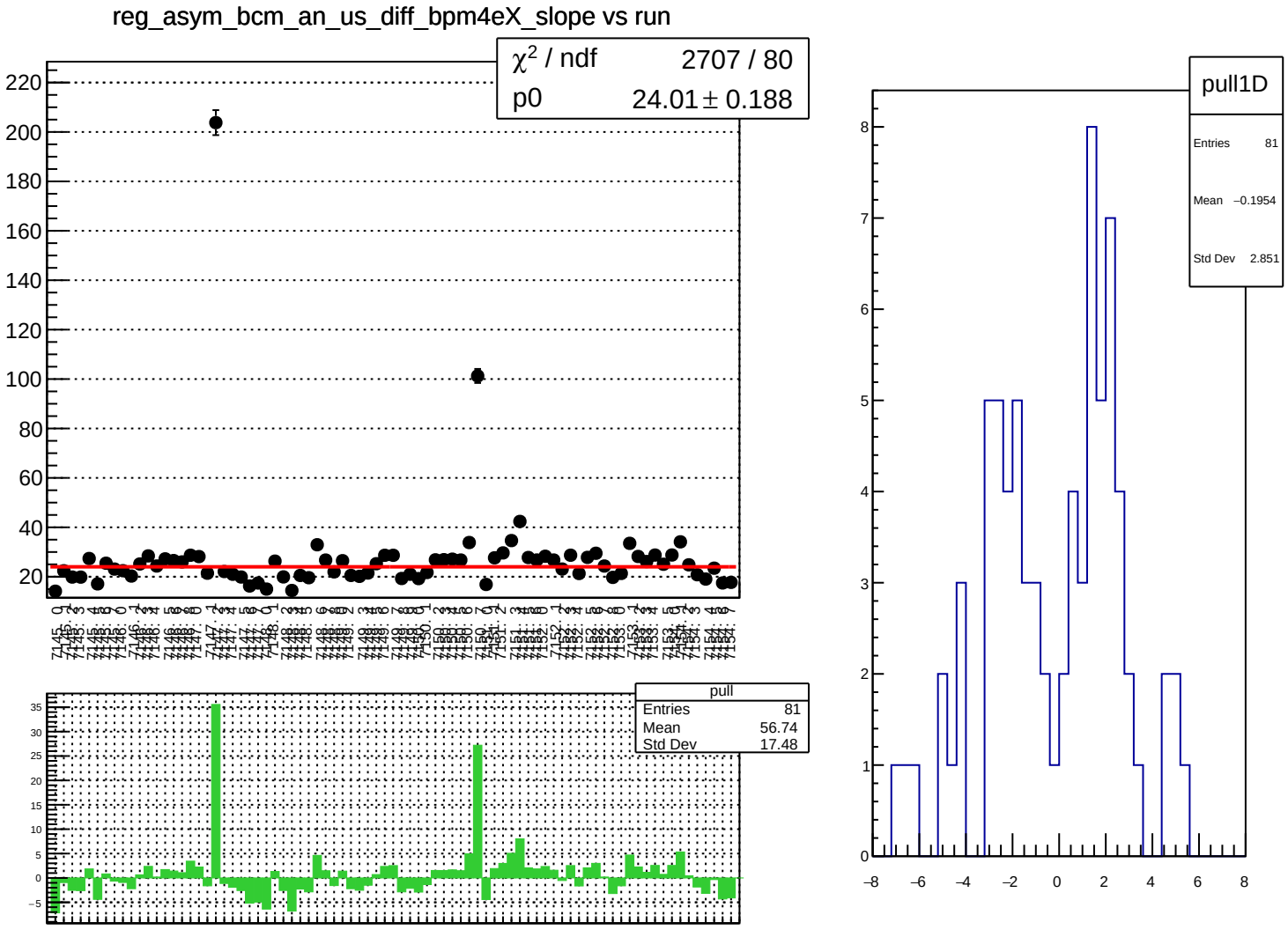

pull1D
Entries 81
Mean −0.07081
Std Dev 1.971

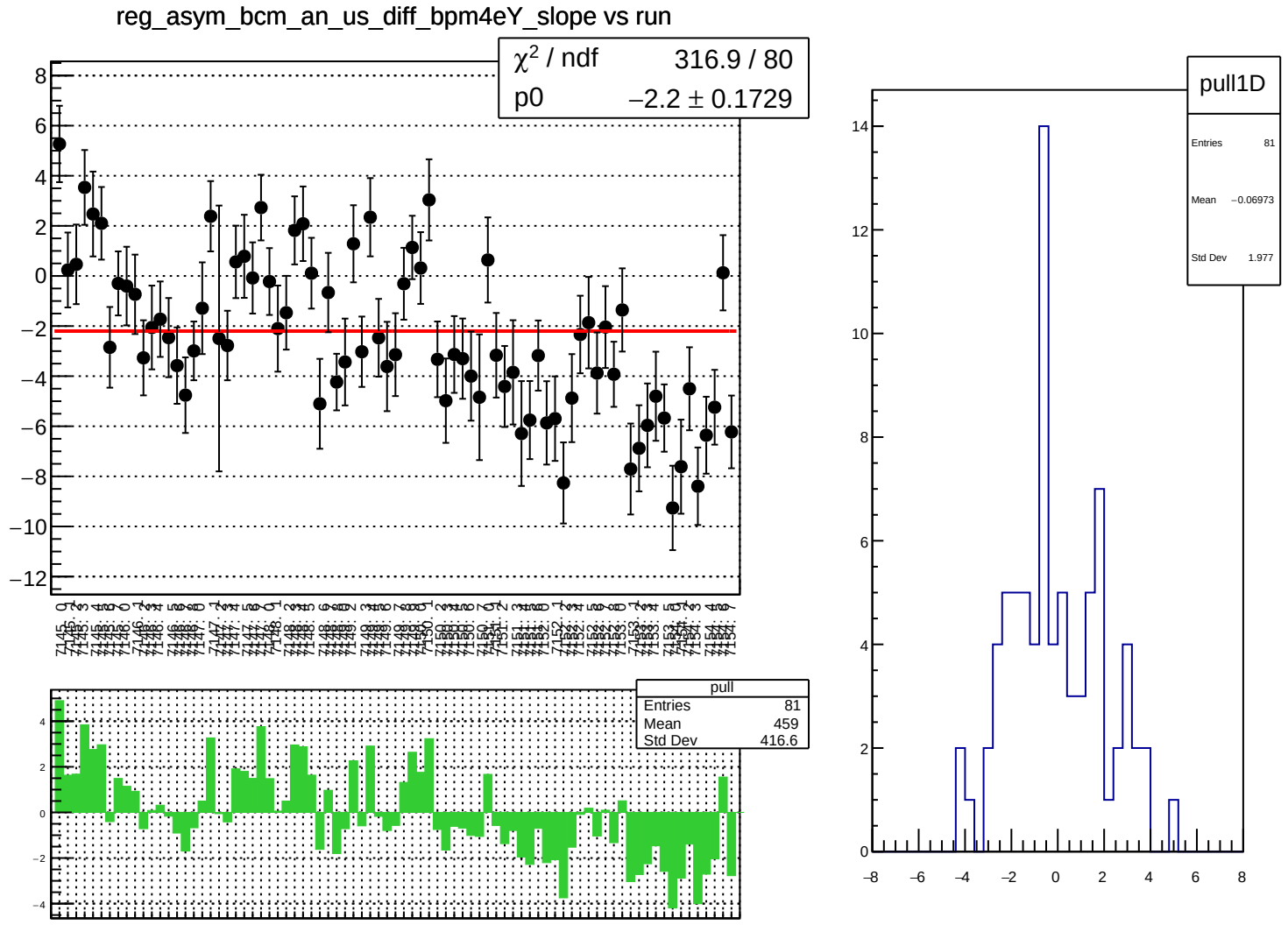

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 261.3 / 80
p0 0.1096 ± 0.007551
pull
Entries 81
Mean −273.1
Std Dev 314.1
pull1D
Entries 81
Mean 0.08674
Std Dev 1.794

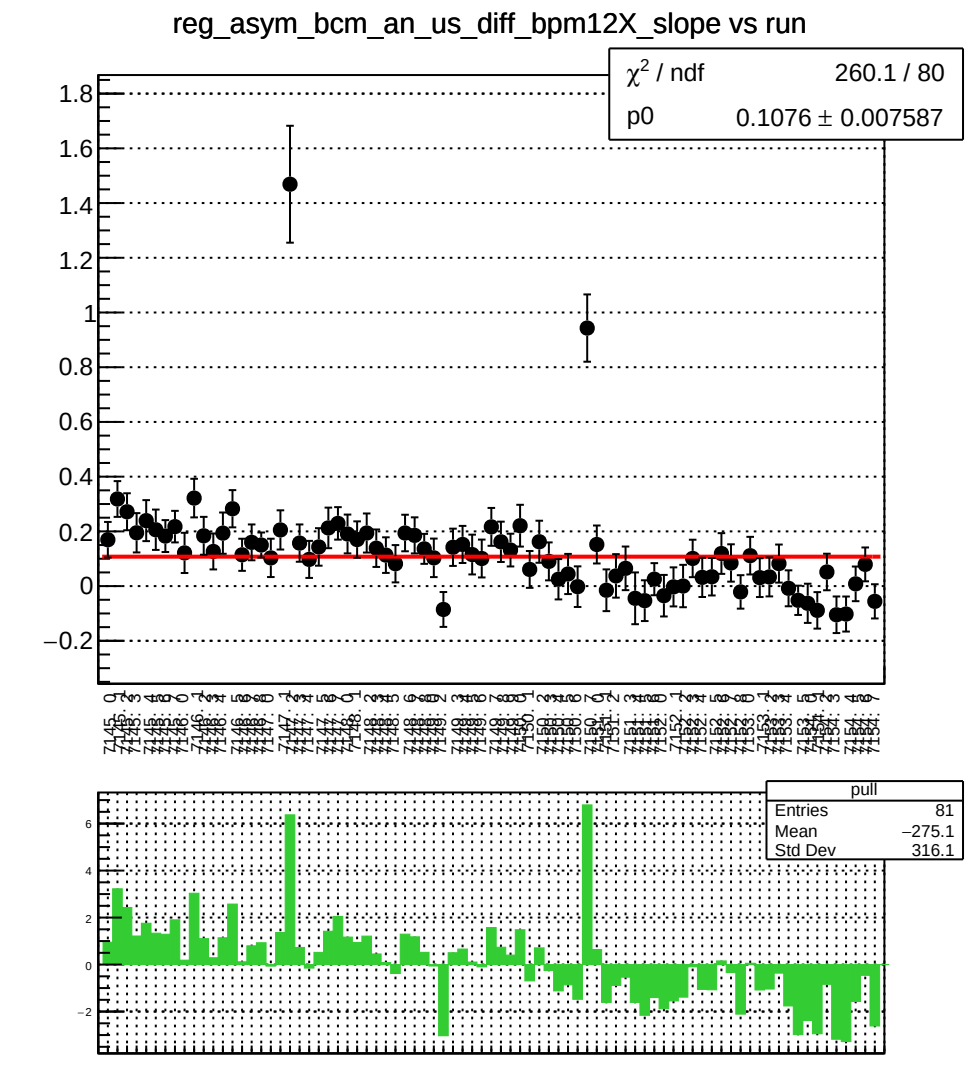

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 2754 / 80
p0 −23.87 ± 0.1837
pull
Entries 81
Mean 57.89
Std Dev 18.66
pull1D
Entries 81
Mean 0.2075
Std Dev 2.828

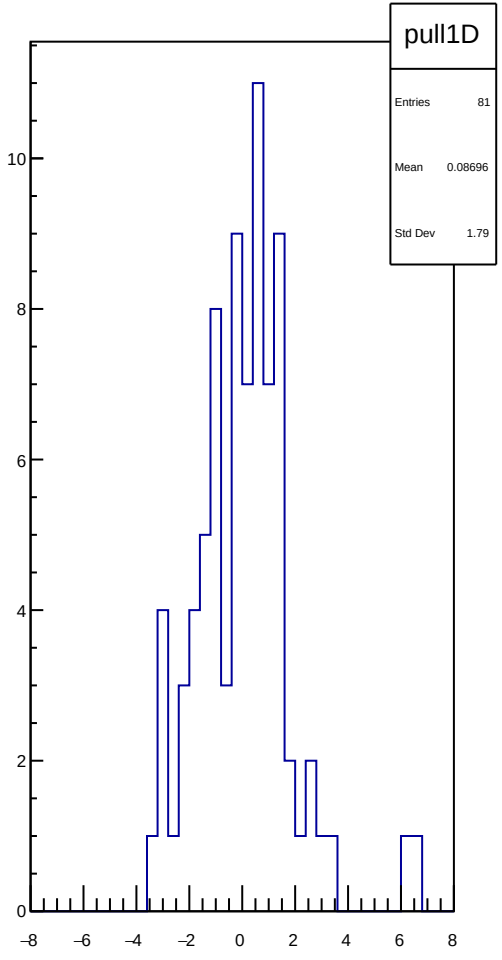

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 254.7 / 80
p0 0.9142 ± 0.1582
pull
Entries 81
Mean 6003
Std Dev 5961

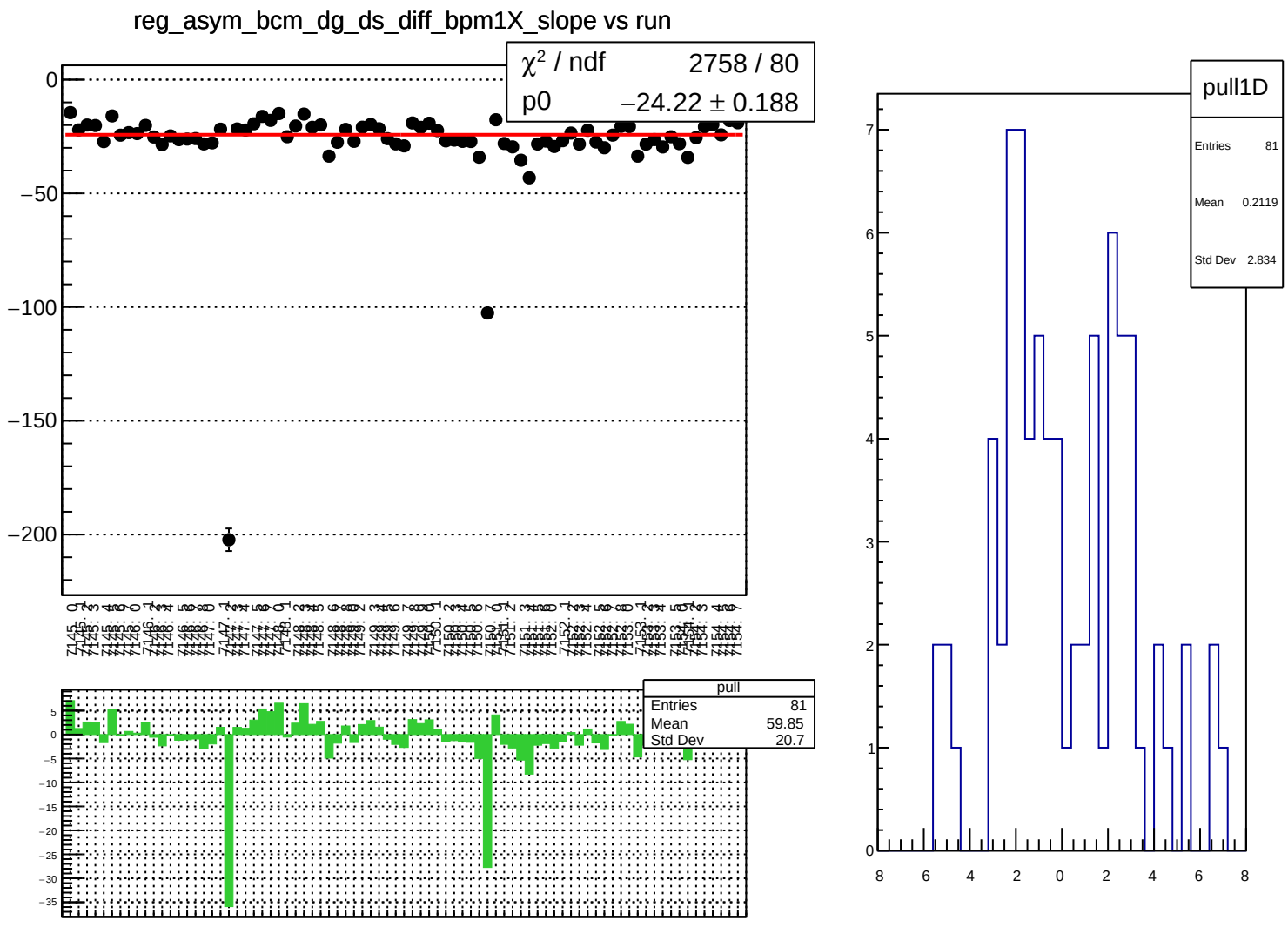

pull1D
Entries 81
Mean 0.004067
Std Dev 1.773

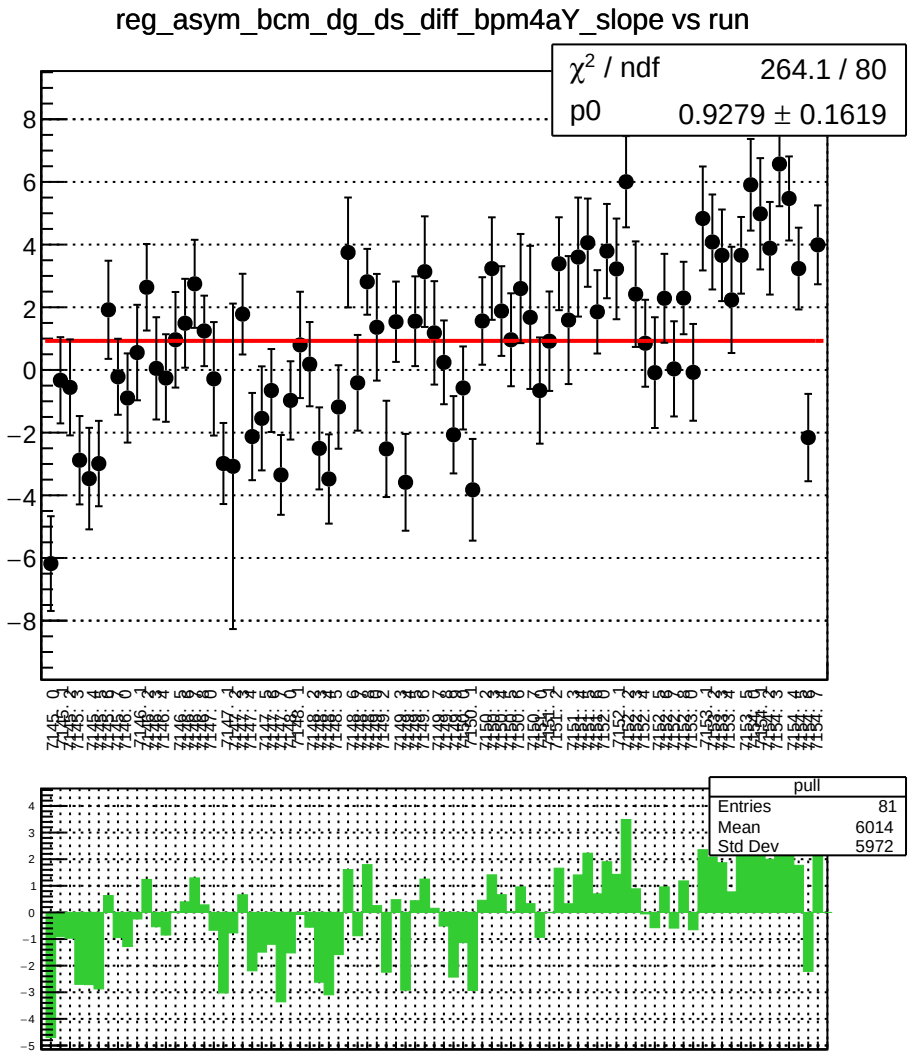

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 2707 / 80
p0 24.01 ± 0.188
pull
Entries 81
Mean 56.74
Std Dev 17.48
pull1D
Entries 81
Mean −0.1954
Std Dev 2.851

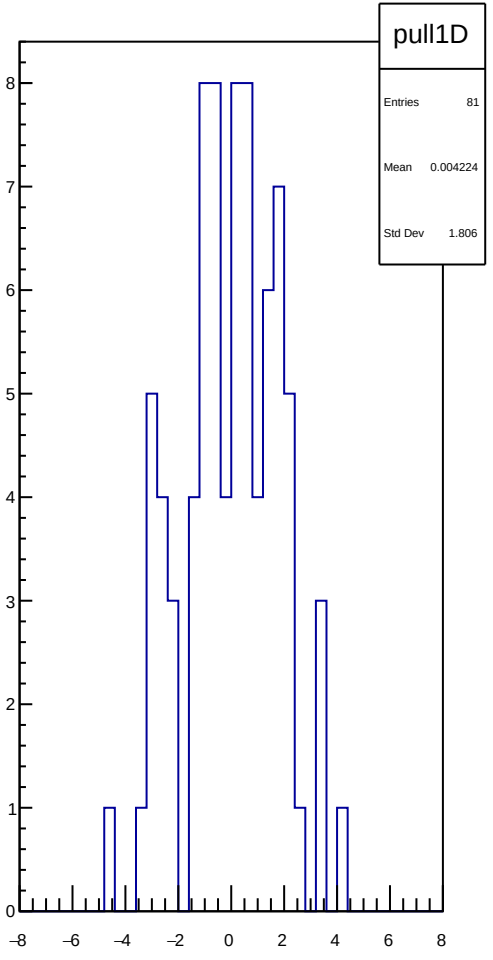

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 316.9 / 80
p0 −2.2 ± 0.1729
pull
Entries 81
Mean 459
Std Dev 416.6
pull1D
Entries 81
Mean −0.06973
Std Dev 1.977

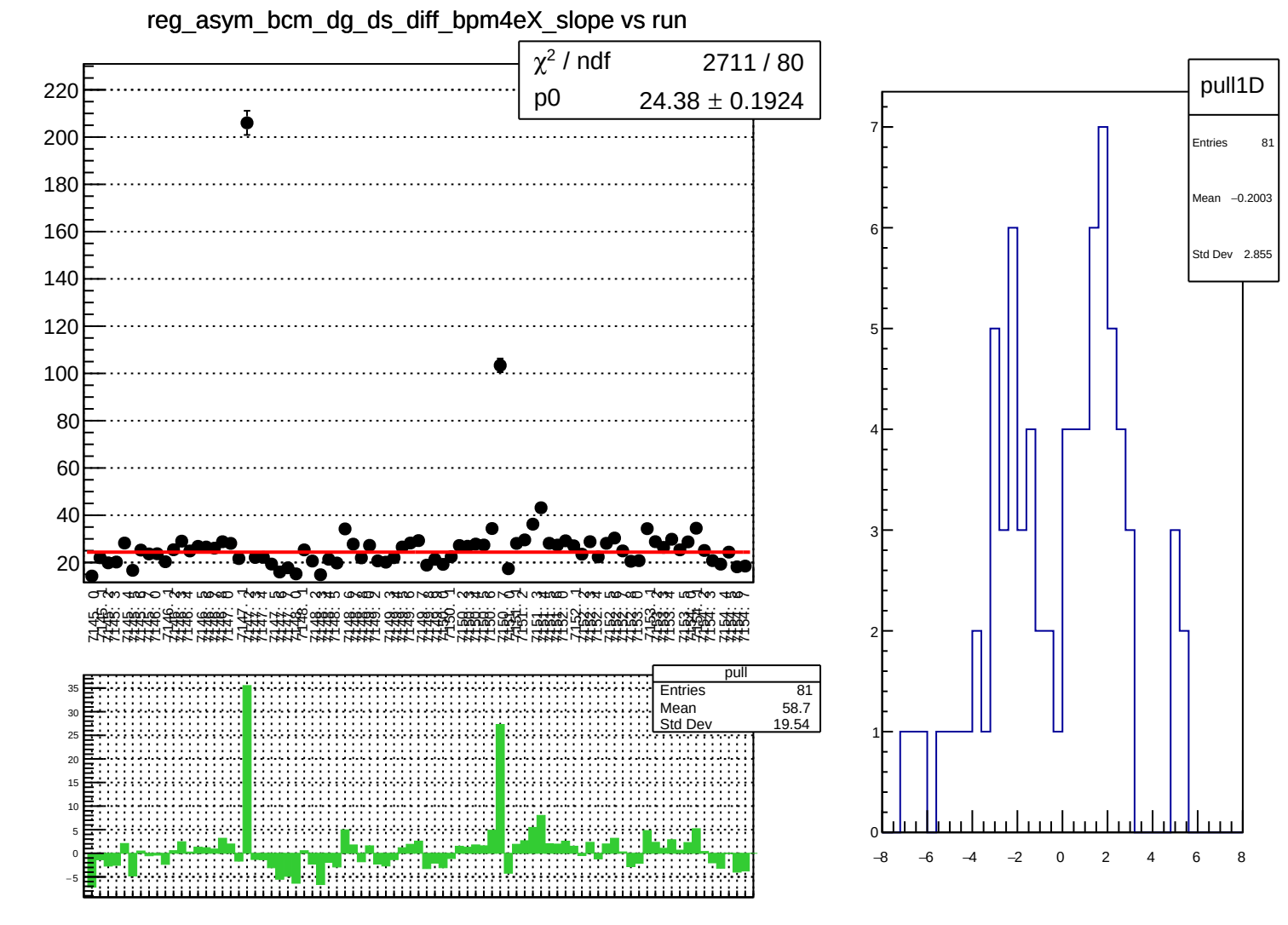

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 260.1 / 80
p0 0.1076 ± 0.007587
pull
Entries 81
Mean −275.1
Std Dev 316.1

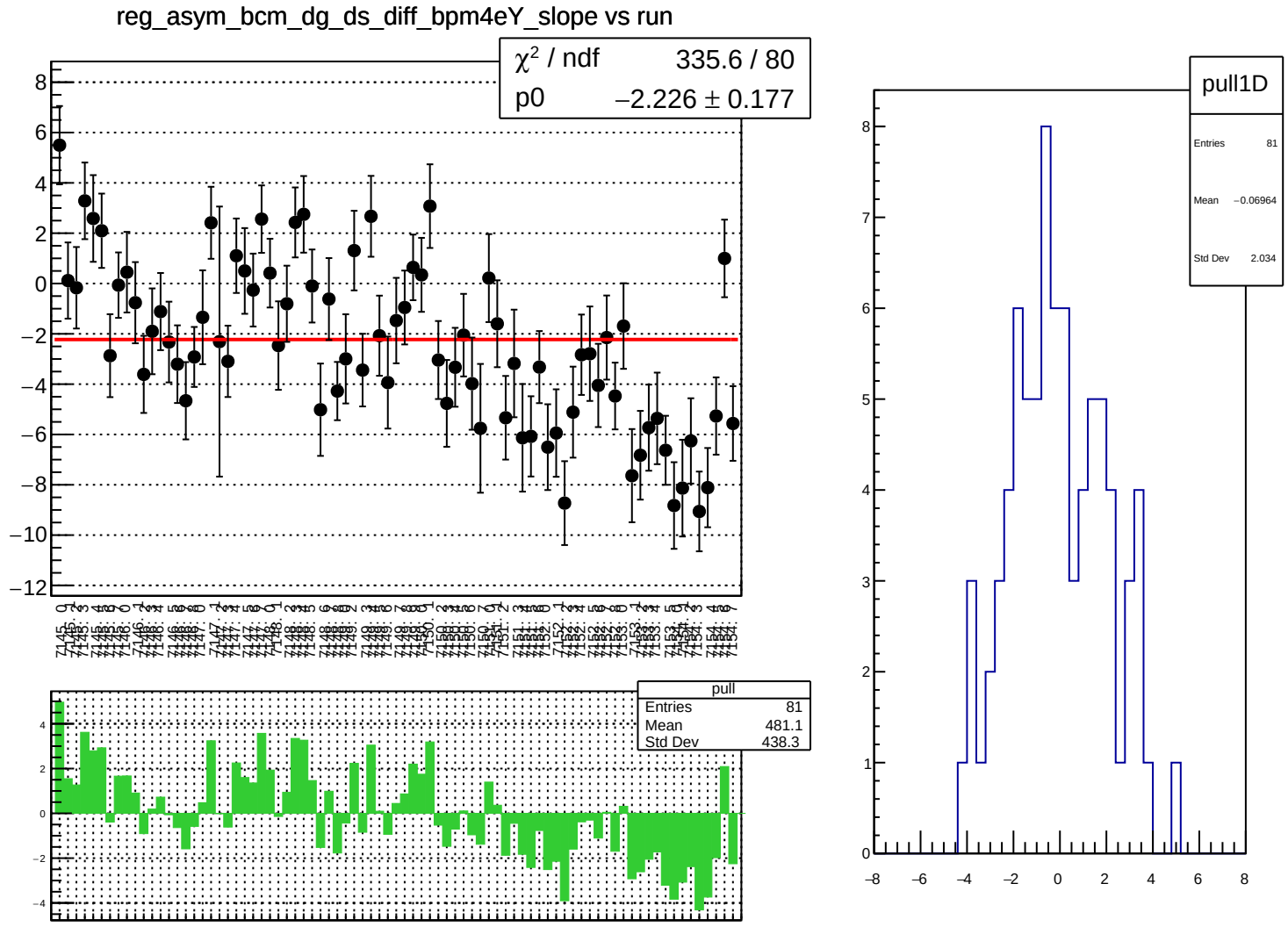

pull1D
Entries 81
Mean 0.08696
Std Dev 1.79

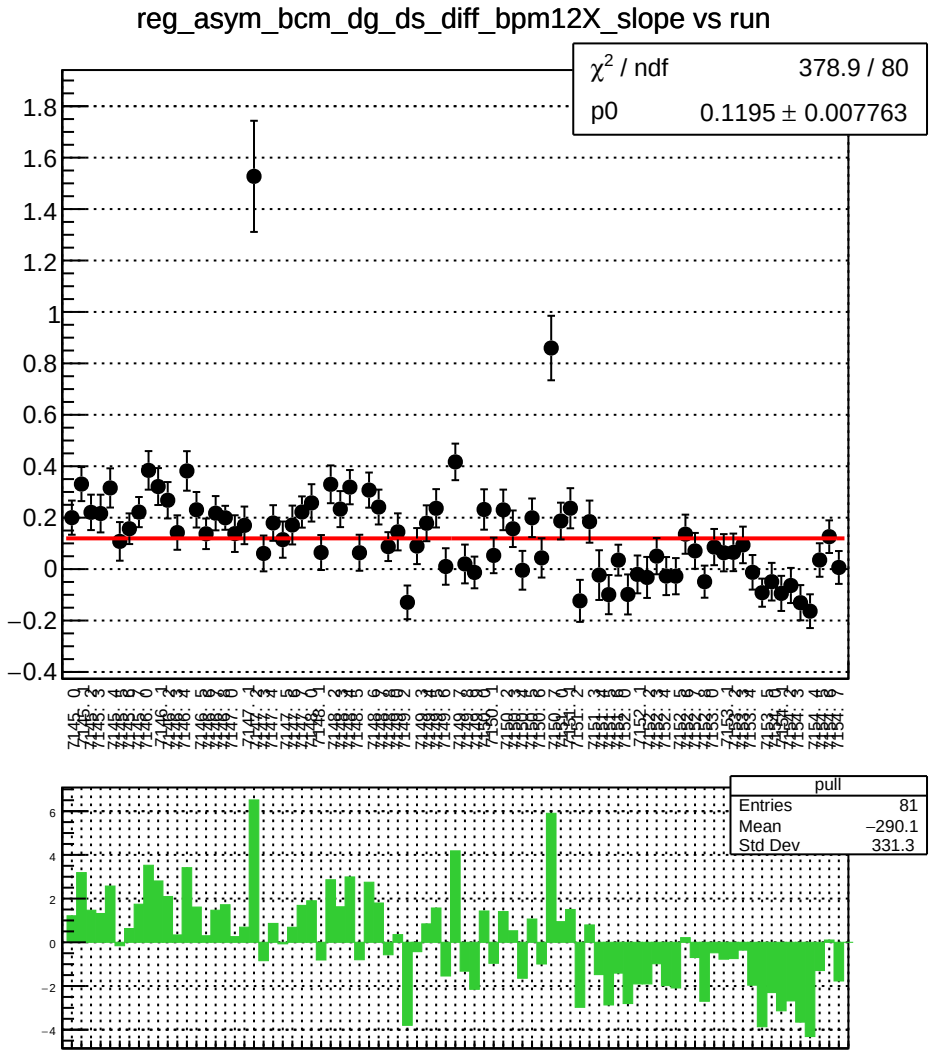

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 2758 / 80
p0 −24.22 ± 0.188
pull
Entries 81
Mean 59.85
Std Dev 20.7
pull1D
Entries 81
Mean 0.2119
Std Dev 2.834

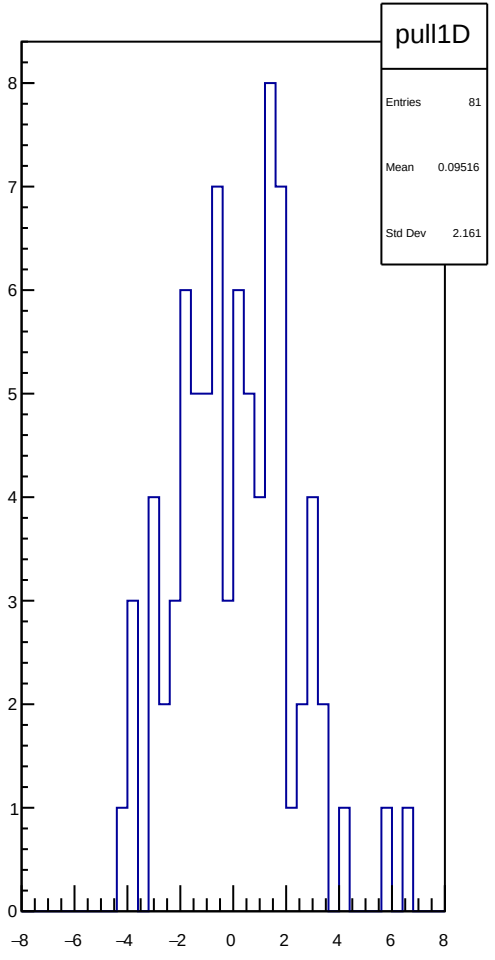

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 264.1 / 80
p0 0.9279 ± 0.1619
pull
Entries 81
Mean 6014
Std Dev 5972

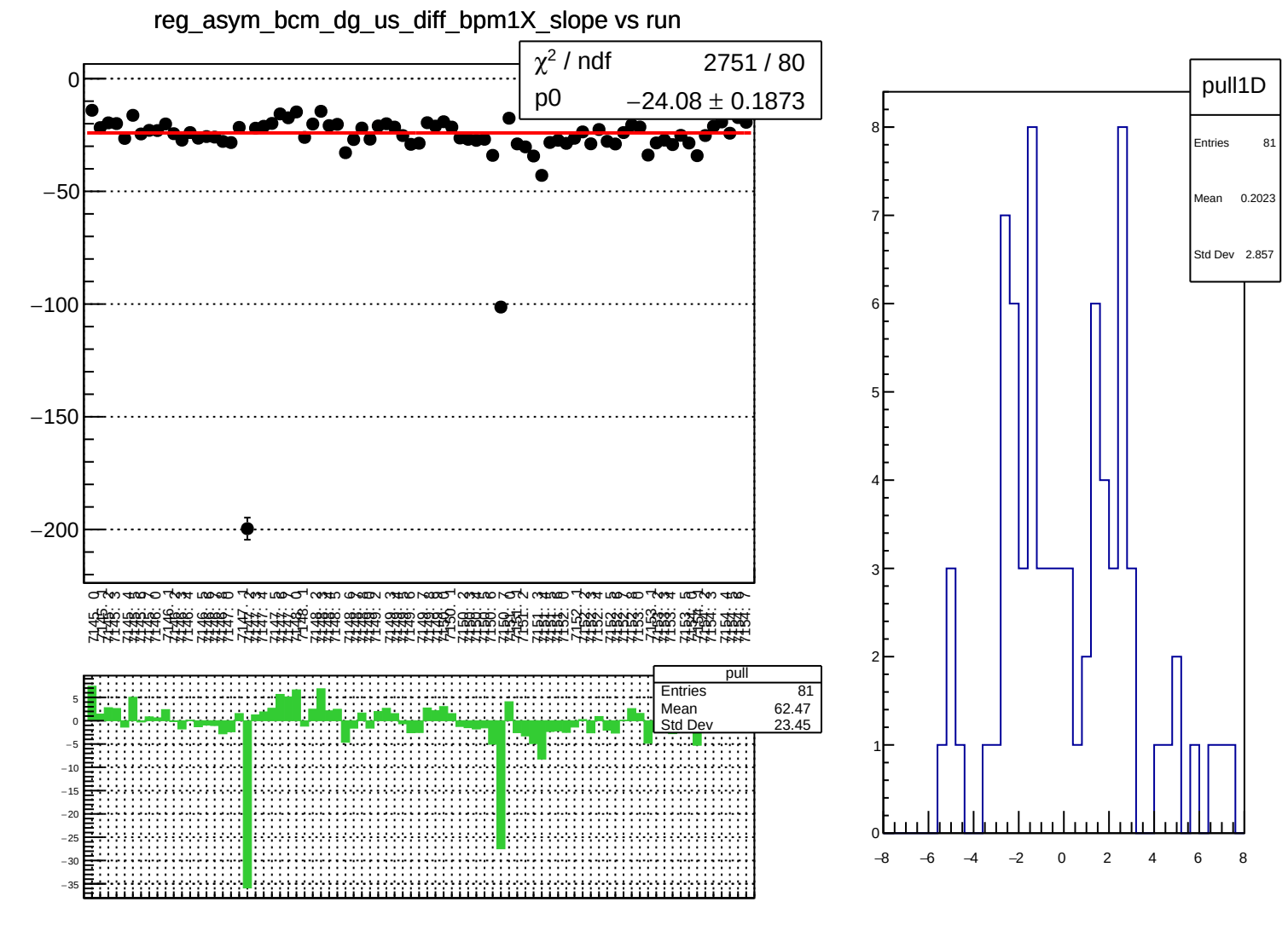

pull1D
Entries 81
Mean 0.004224
Std Dev 1.806

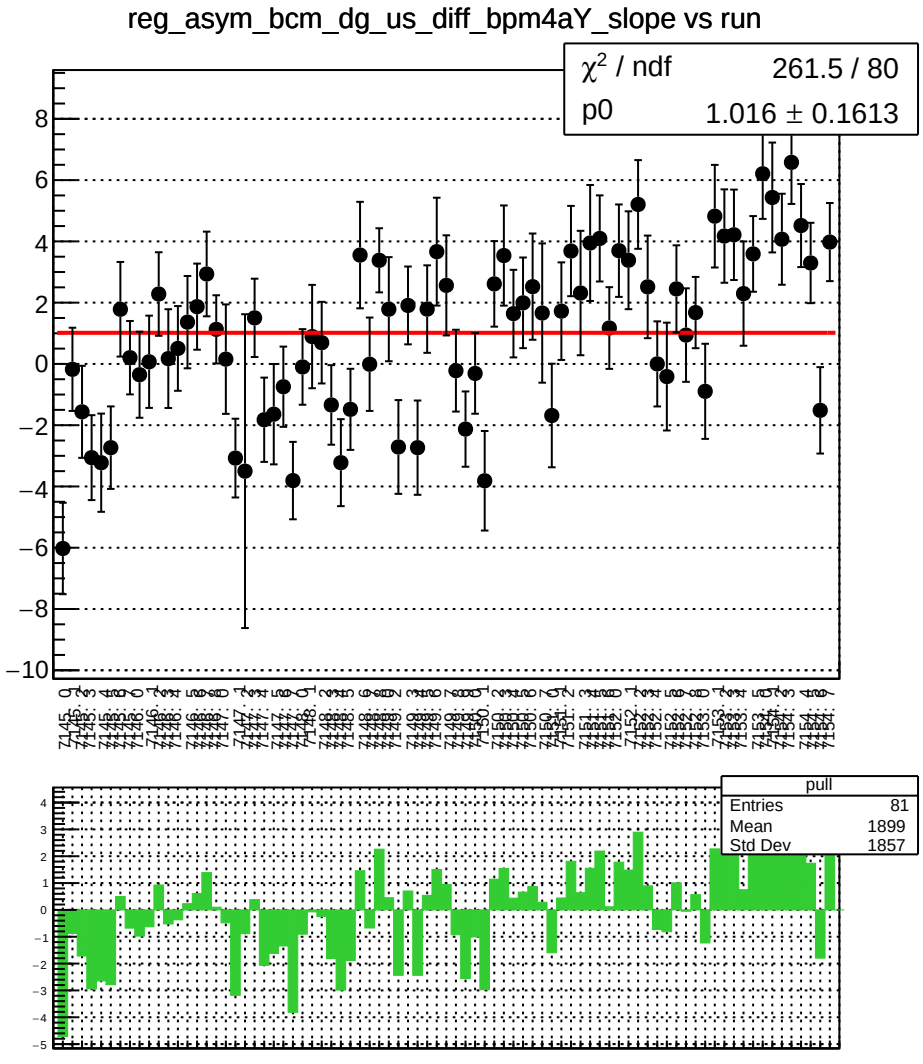

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 2711 / 80
p0 24.38 ± 0.1924
pull
Entries 81
Mean 58.7
Std Dev 19.54
pull1D
Entries 81
Mean −0.2003
Std Dev 2.855

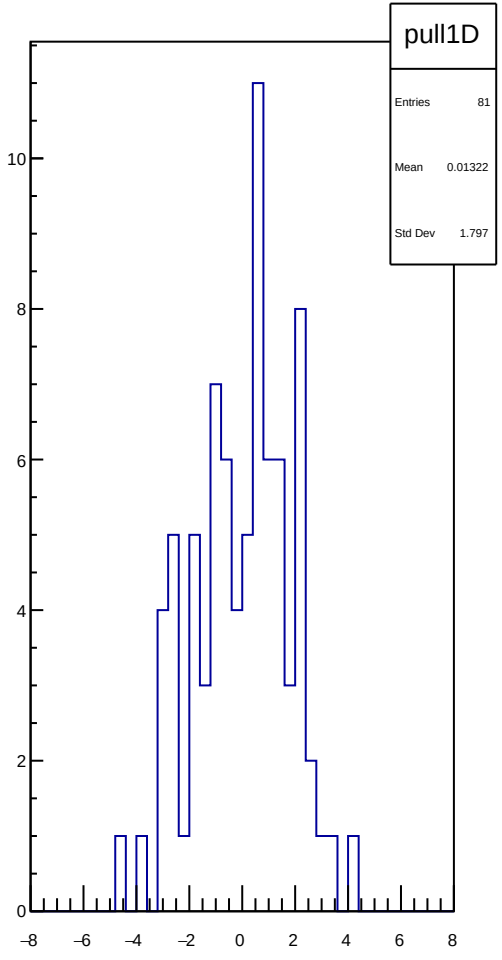

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 335.6 / 80
p0 −2.226 ± 0.177
pull
Entries 81
Mean 481.1
Std Dev 438.3
pull1D
Entries 81
Mean −0.06964
Std Dev 2.034

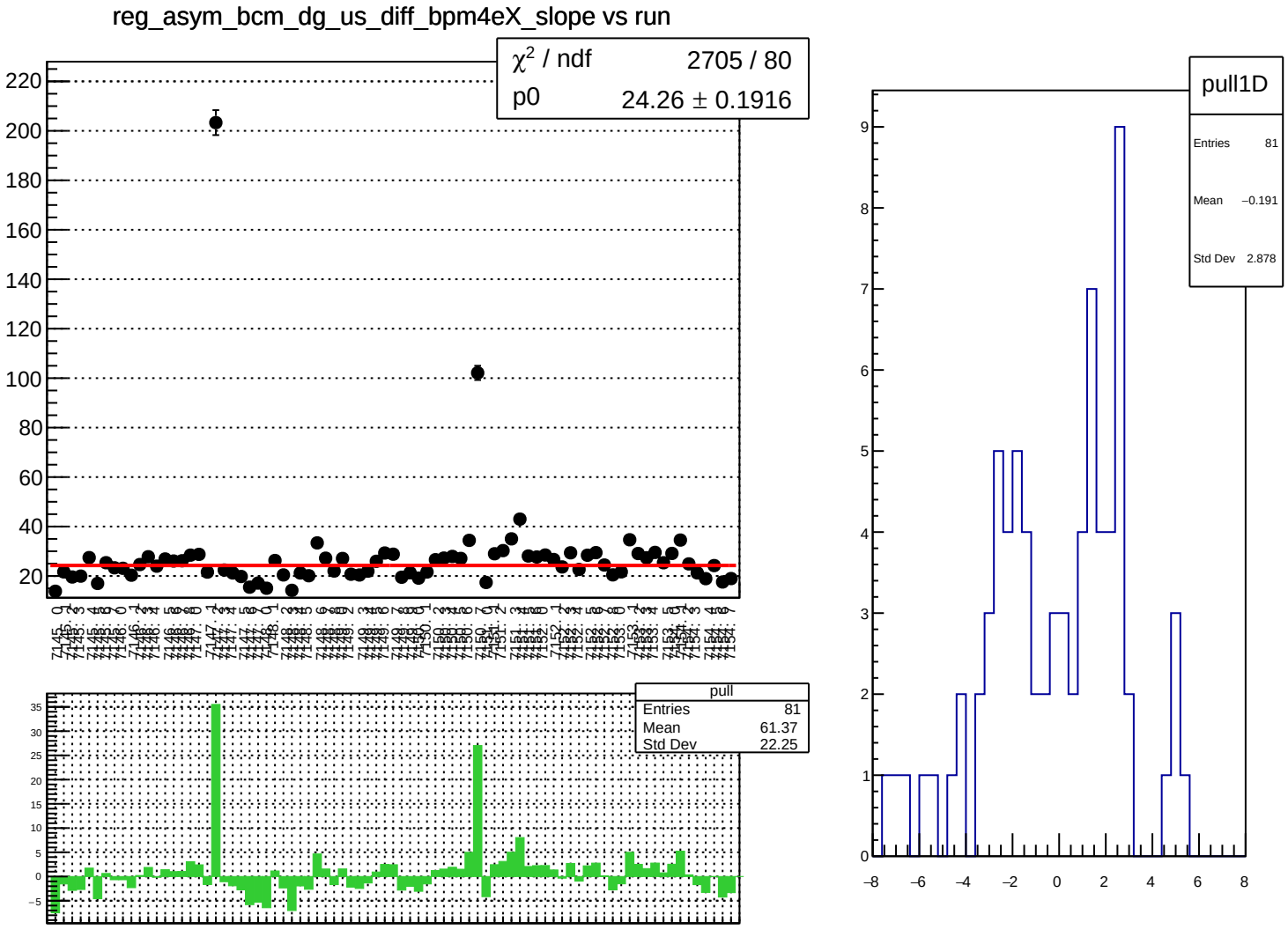

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 378.9 / 80
p0 0.1195 ± 0.007763
pull
Entries 81
Mean −290.1
Std Dev 331.3

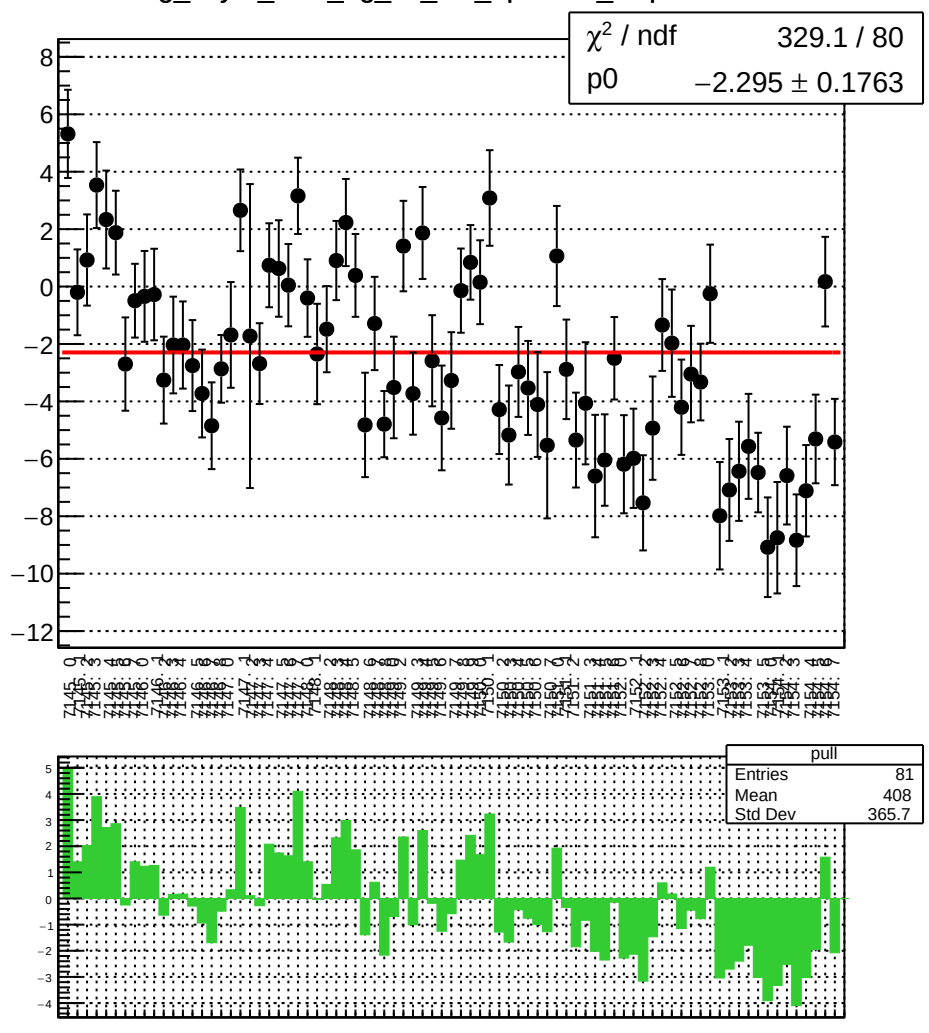

pull1D
Entries 81
Mean 0.09516
Std Dev 2.161

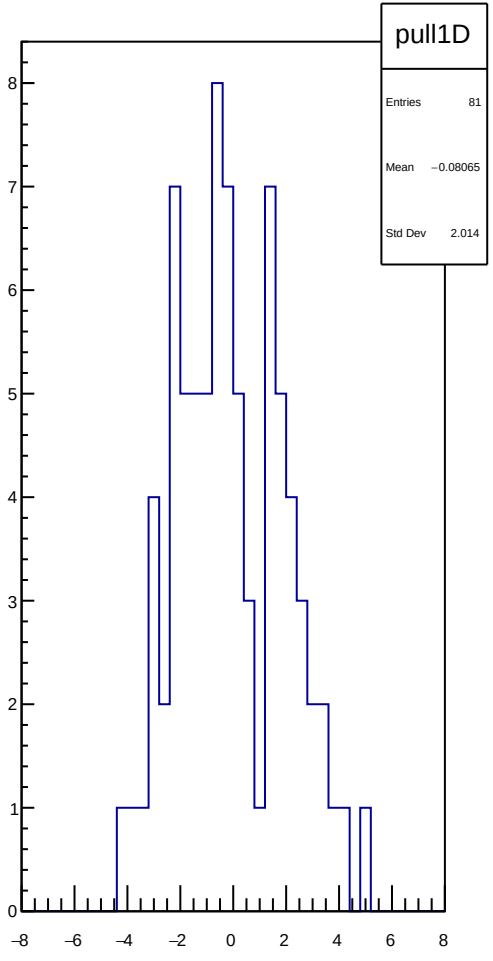

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 2751 / 80
p0 −24.08 ± 0.1873
pull
Entries 81
Mean 62.47
Std Dev 23.45
pull1D
Entries 81
Mean 0.2023
Std Dev 2.857

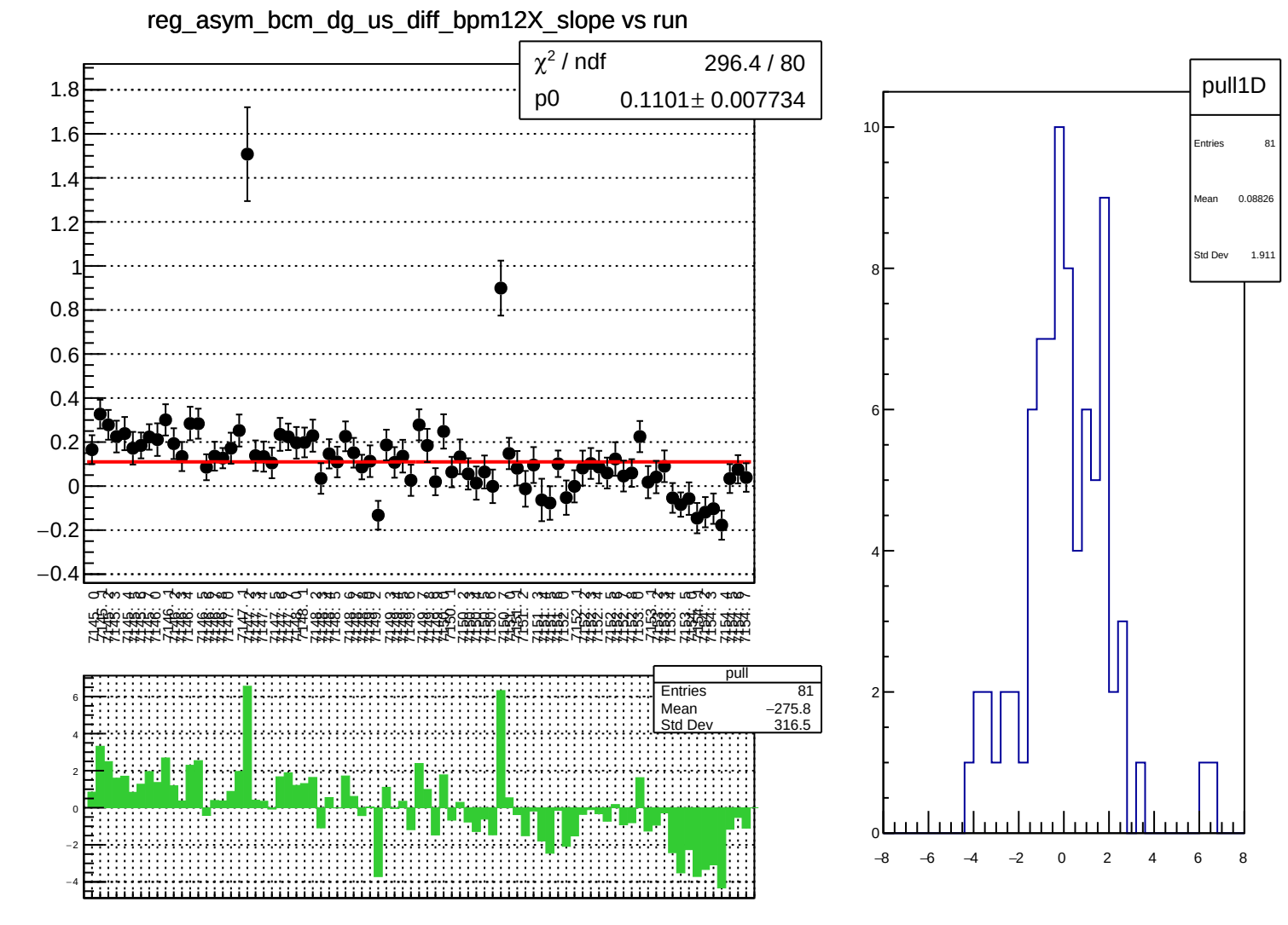

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 261.5 / 80
p0 1.016 ± 0.1613
pull
Entries 81
Mean 1899
Std Dev 1857

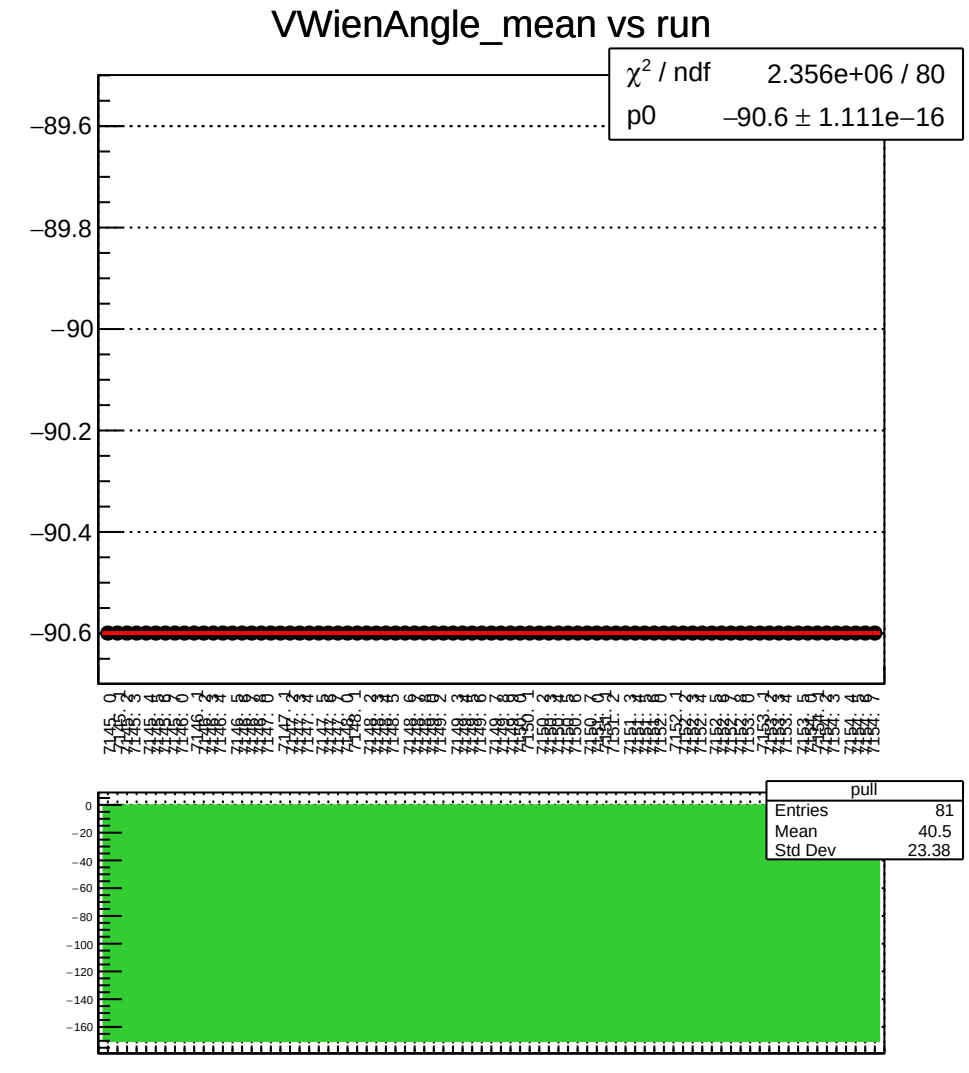

pull1D
Entries 81
Mean 0.01322
Std Dev 1.797

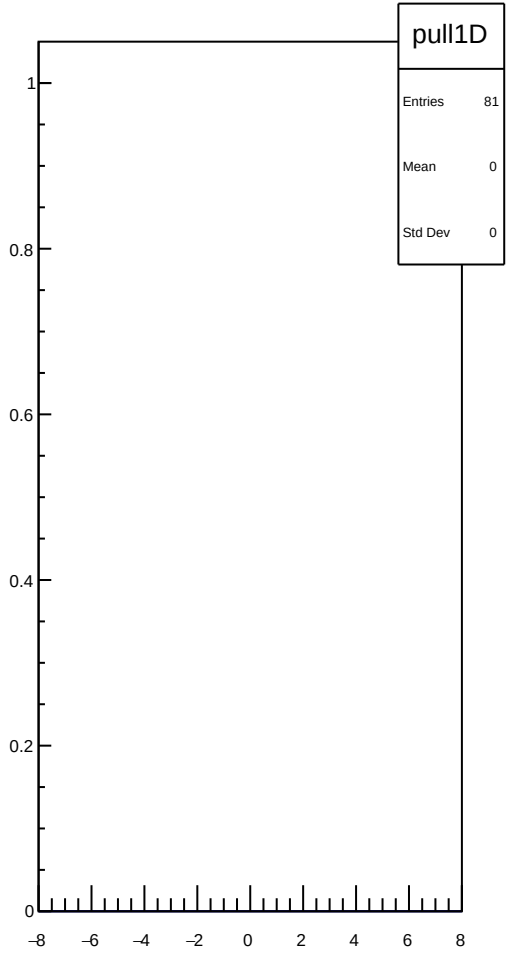

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 2705 / 80
p0 24.26 ± 0.1916
pull
Entries 81
Mean 61.37
Std Dev 22.25
pull1D
Entries 81
Mean −0.191
Std Dev 2.878

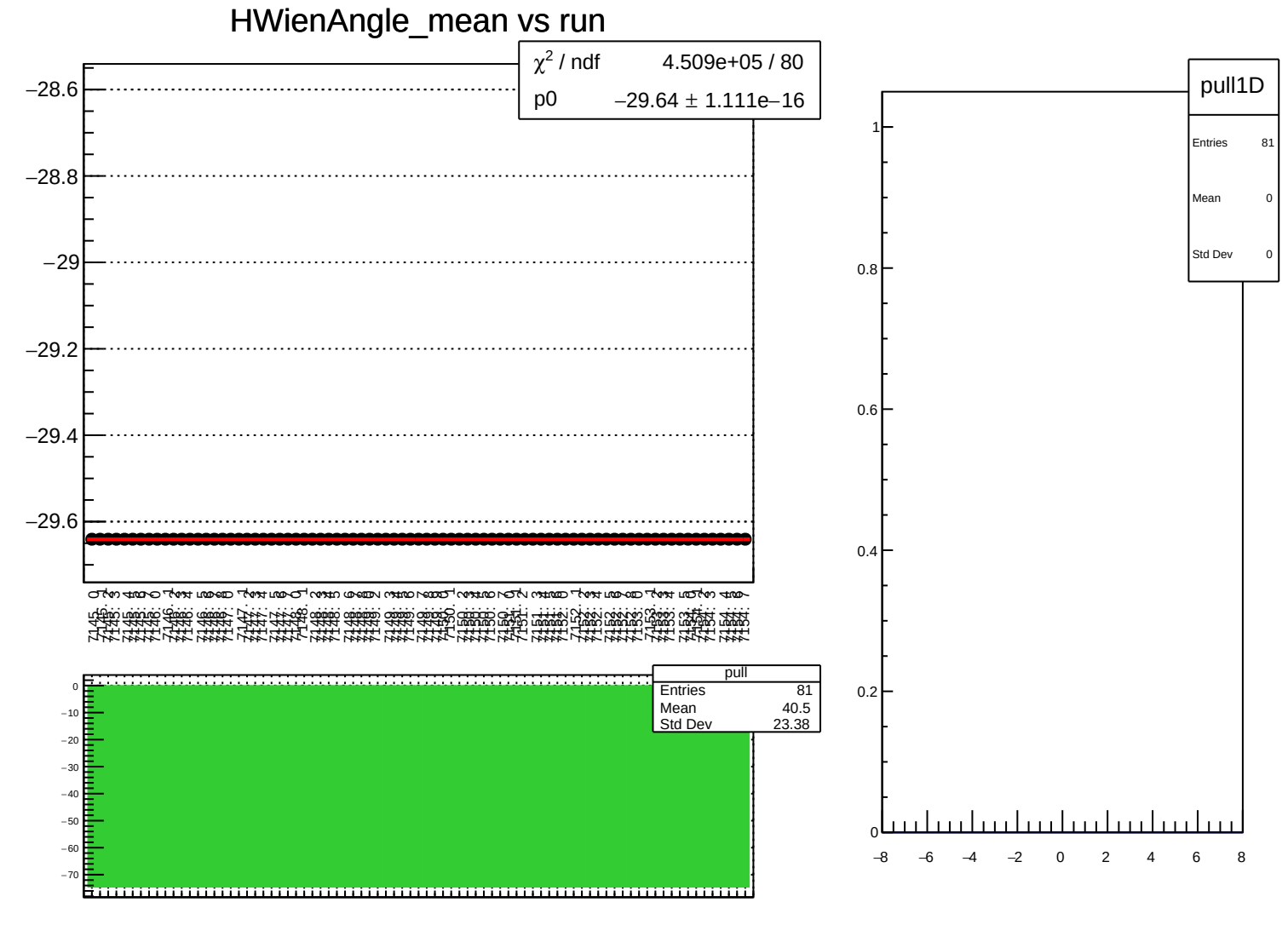

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 329.1 / 80
p0 −2.295 ± 0.1763
pull
Entries 81
Mean 408
Std Dev 365.7

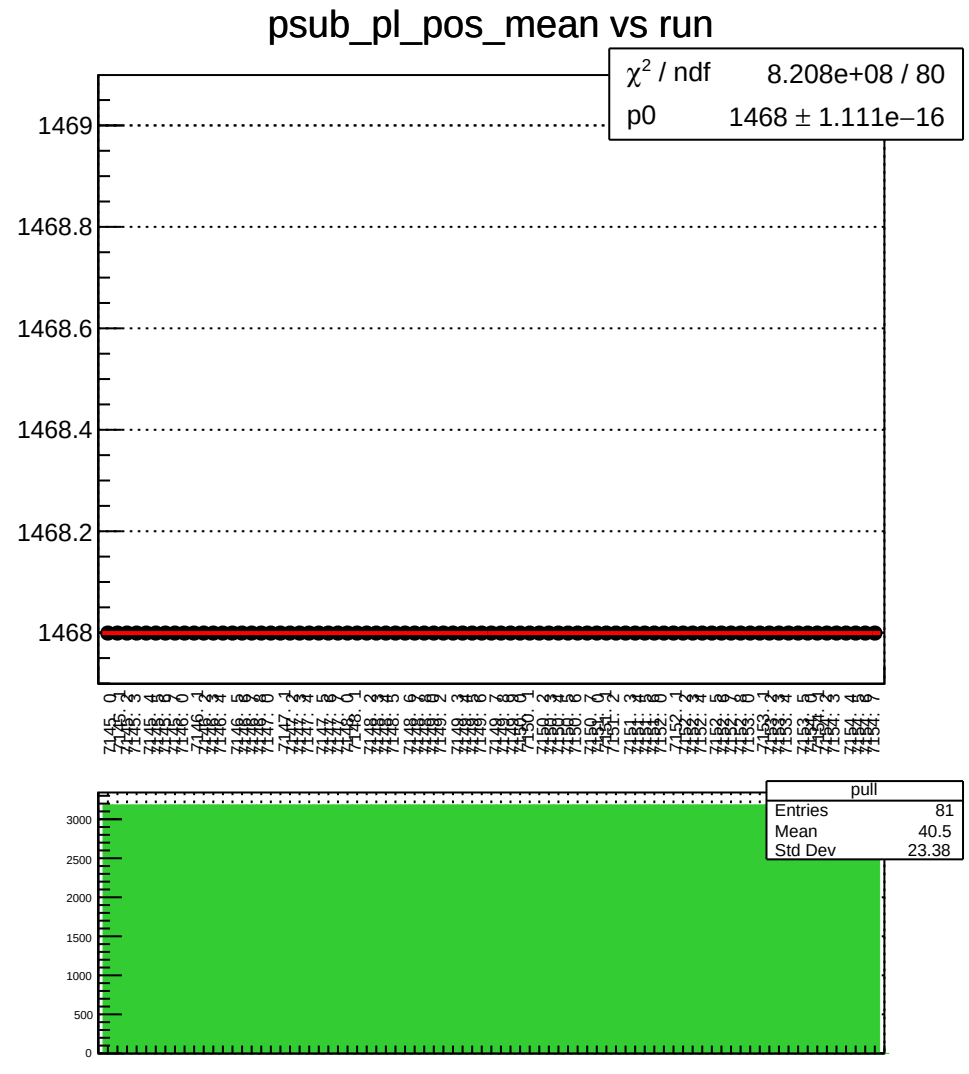

pull1D
Entries 81
Mean −0.08065
Std Dev 2.014

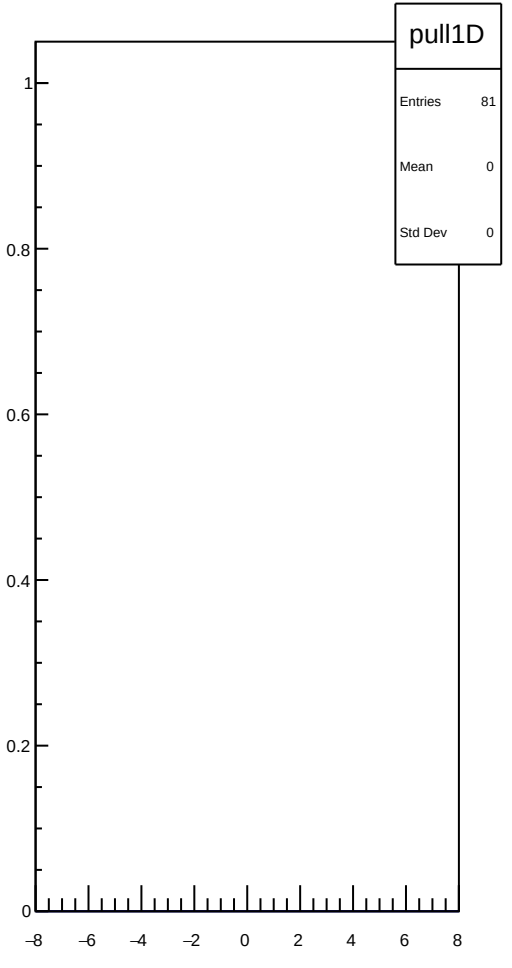

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 296.4 / 80
p0 0.1101± 0.007734
pull
Entries 81
Mean −275.8
Std Dev 316.5
pull1D
Entries 81
Mean 0.08826
Std Dev 1.911

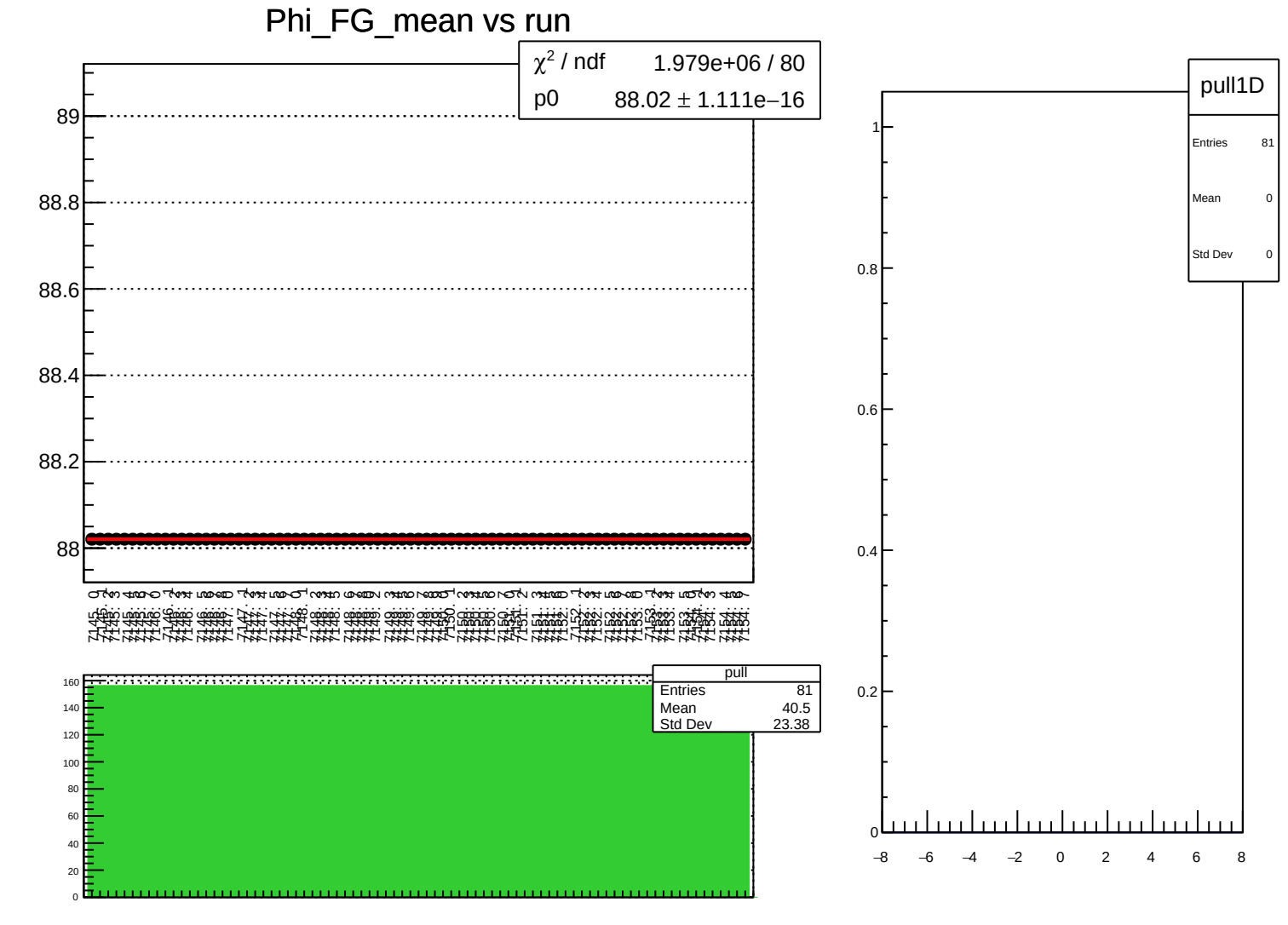

VWienAngle_mean vs run
χ² / ndf 2.356e+06 / 80
p0 −90.6 ± 1.111e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−20
−40
−60
−80
−100
−120
−140
−160

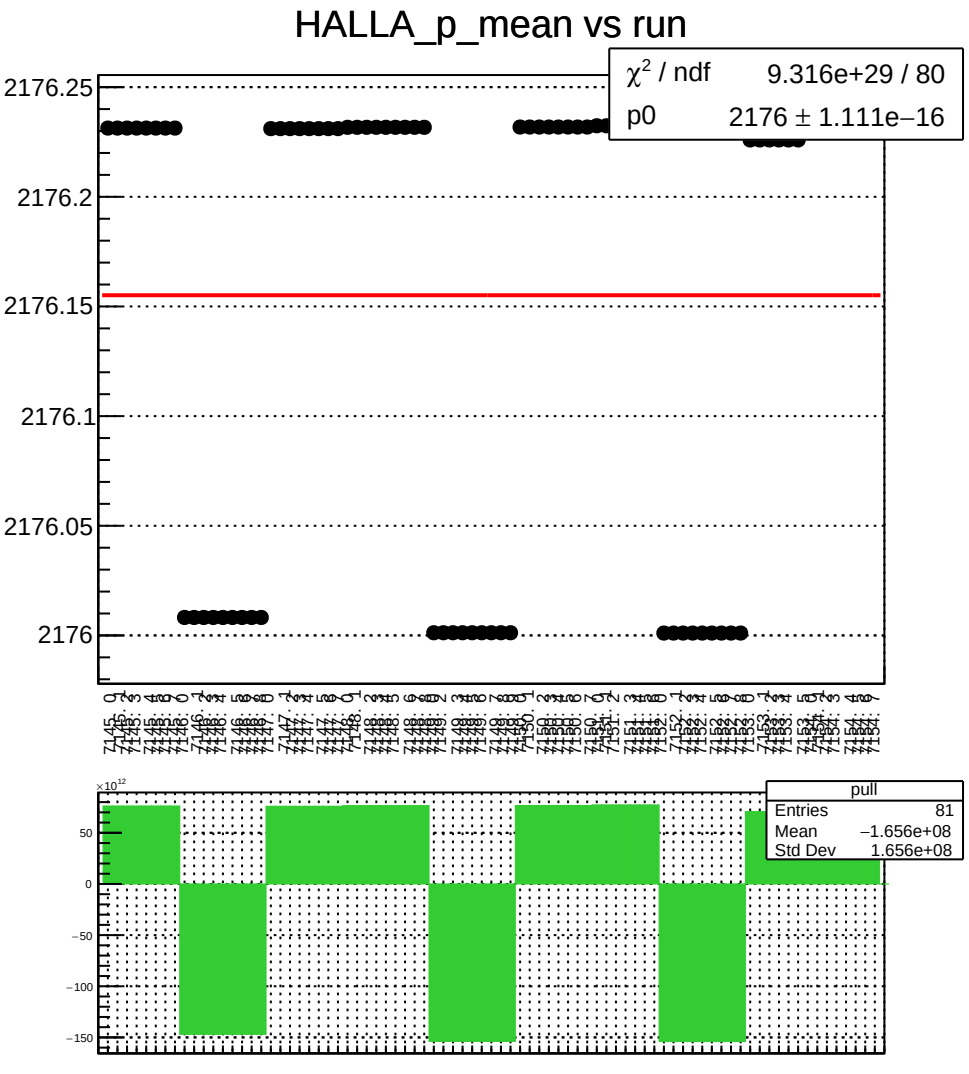

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

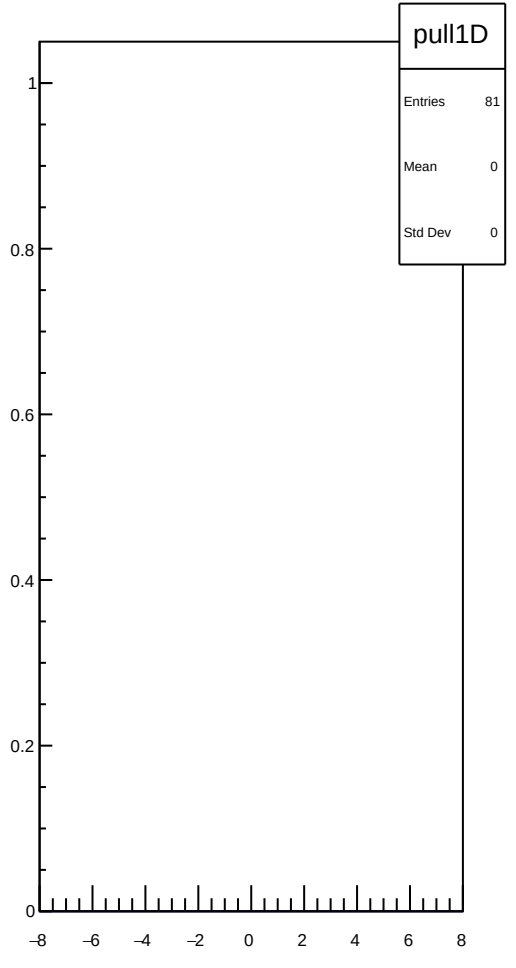

HWienAngle_mean vs run
χ² / ndf 4.509e+05 / 80
p0 −29.64 ± 1.111e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

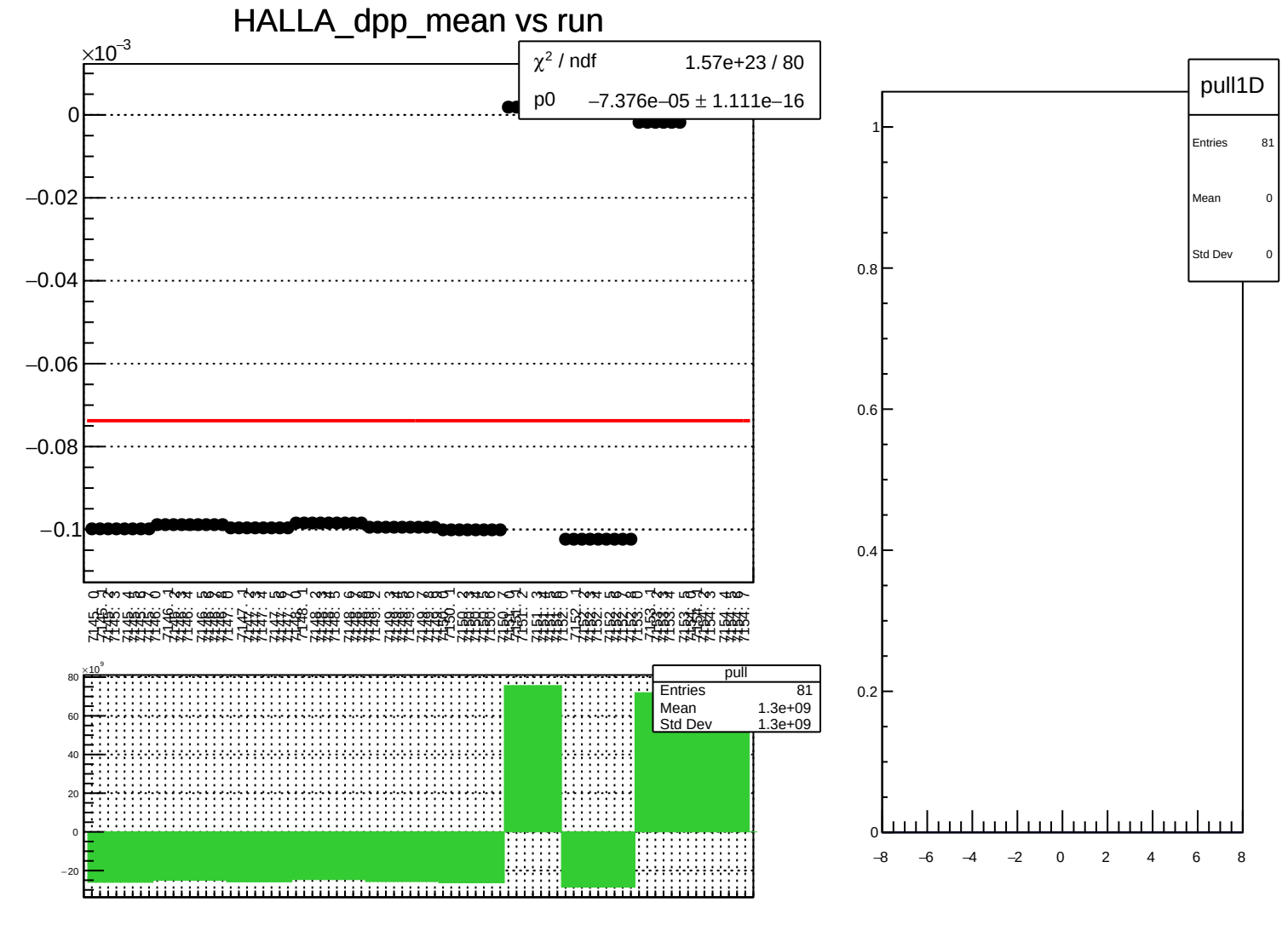

psub_pl_pos_mean vs run
χ² / ndf 8.208e+08 / 80
p0 1468 ± 1.111e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 81
Mean 40.5
Std Dev 23.38
3000
2500
2000
1500
1000
500
0

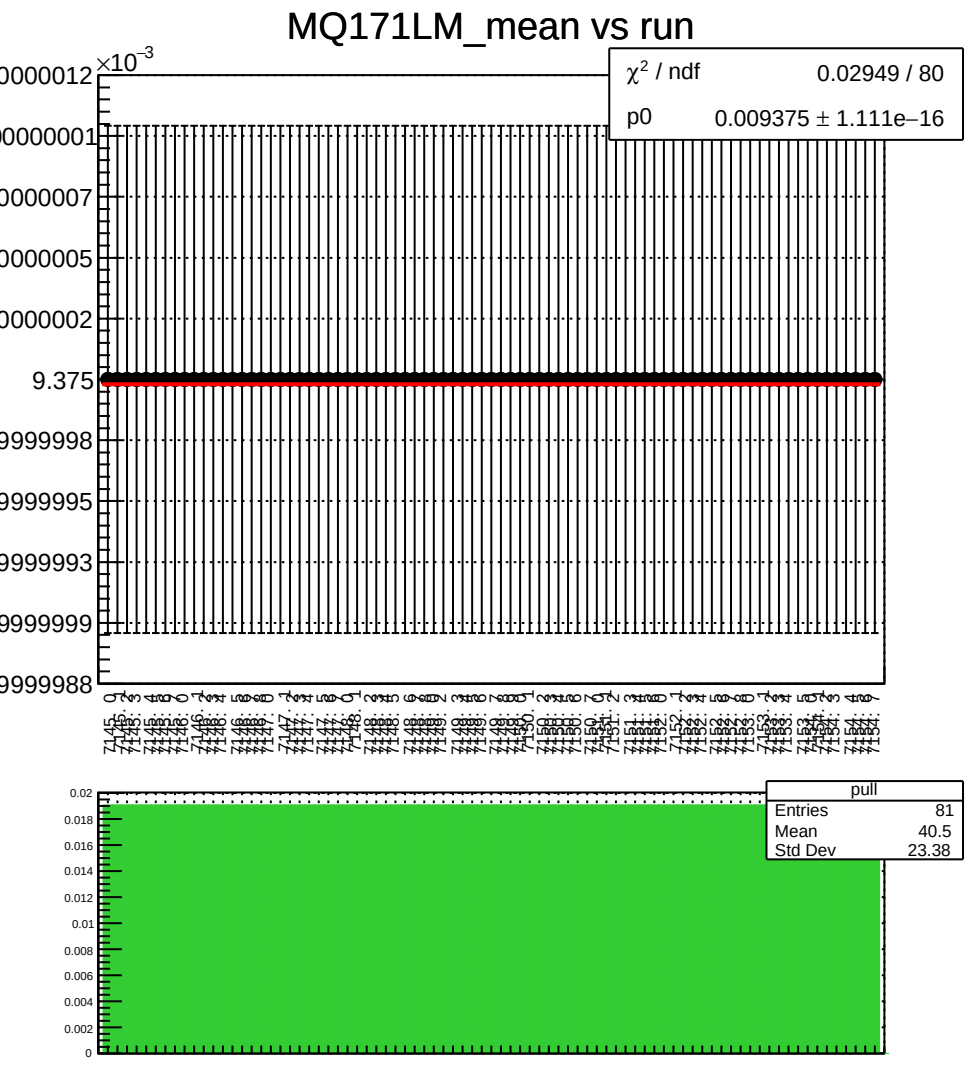

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

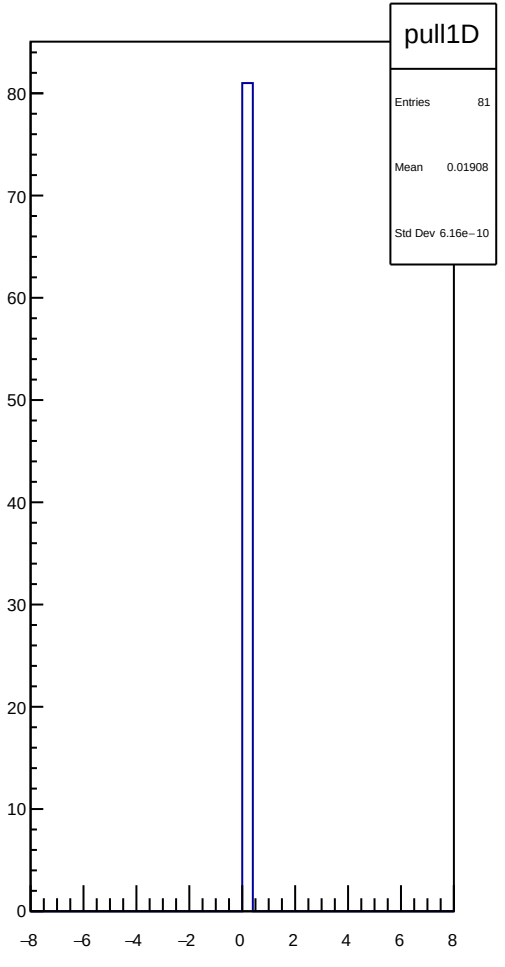

Phi_FG_mean vs run
χ² / ndf 1.979e+06 / 80
p0 88.02 ± 1.111e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 81
Mean 40.5
Std Dev 23.38
160
140
120
100
80
60
40
20
0
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

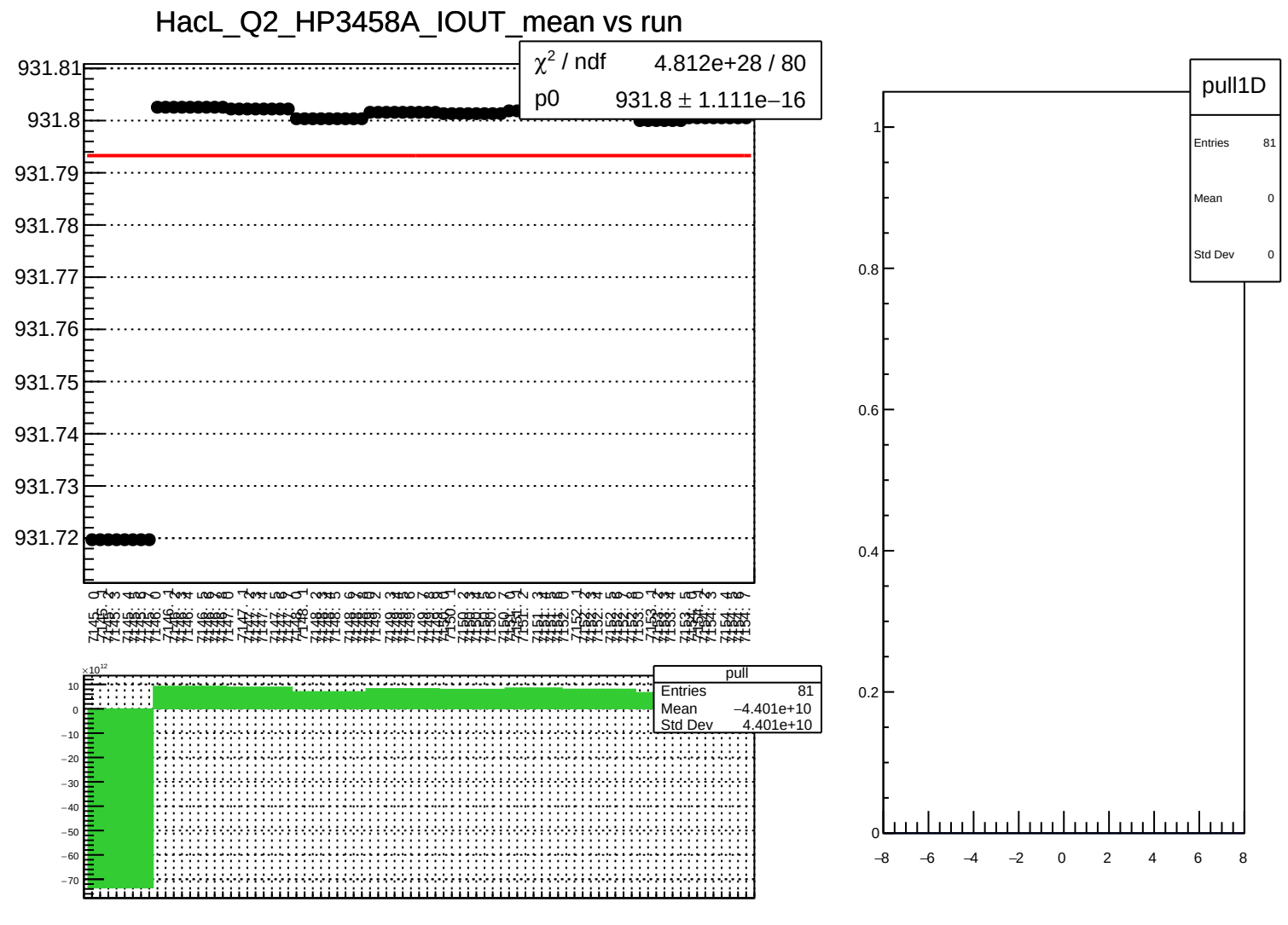

HALLA_p_mean vs run
χ² / ndf 9.316e+29 / 80
p0 2176 ± 1.111e−16
2176.25
2176.2
2176.15
2176.1
2176.05
2176
pull
Entries 81
Mean −1.656e+08
Std Dev 1.656e+08
×10¹²
50
0
−50
−100
−150

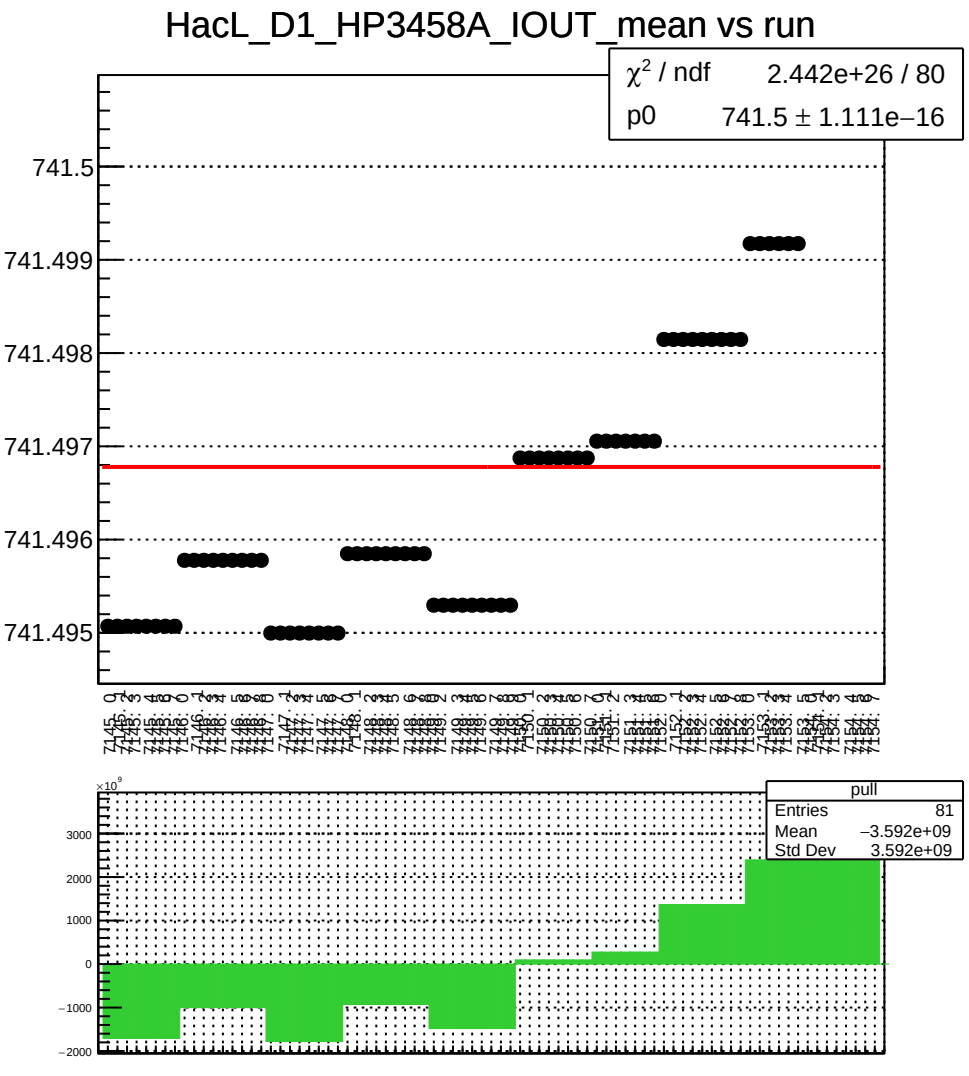

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

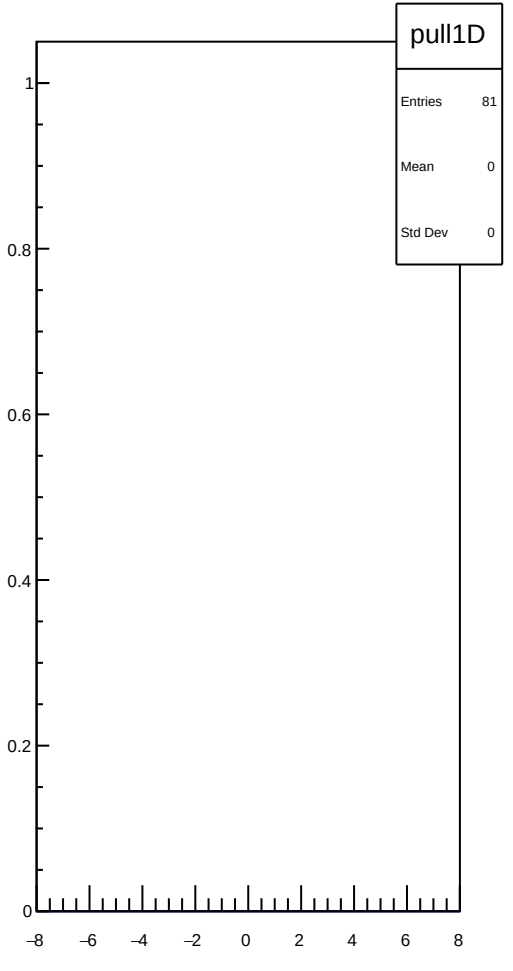

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.57e+23 / 80
p0 −7.376e−05 ± 1.111e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
pull
Entries 81
Mean 1.3e+09
Std Dev 1.3e+09
80
60
40
20
0
−20
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

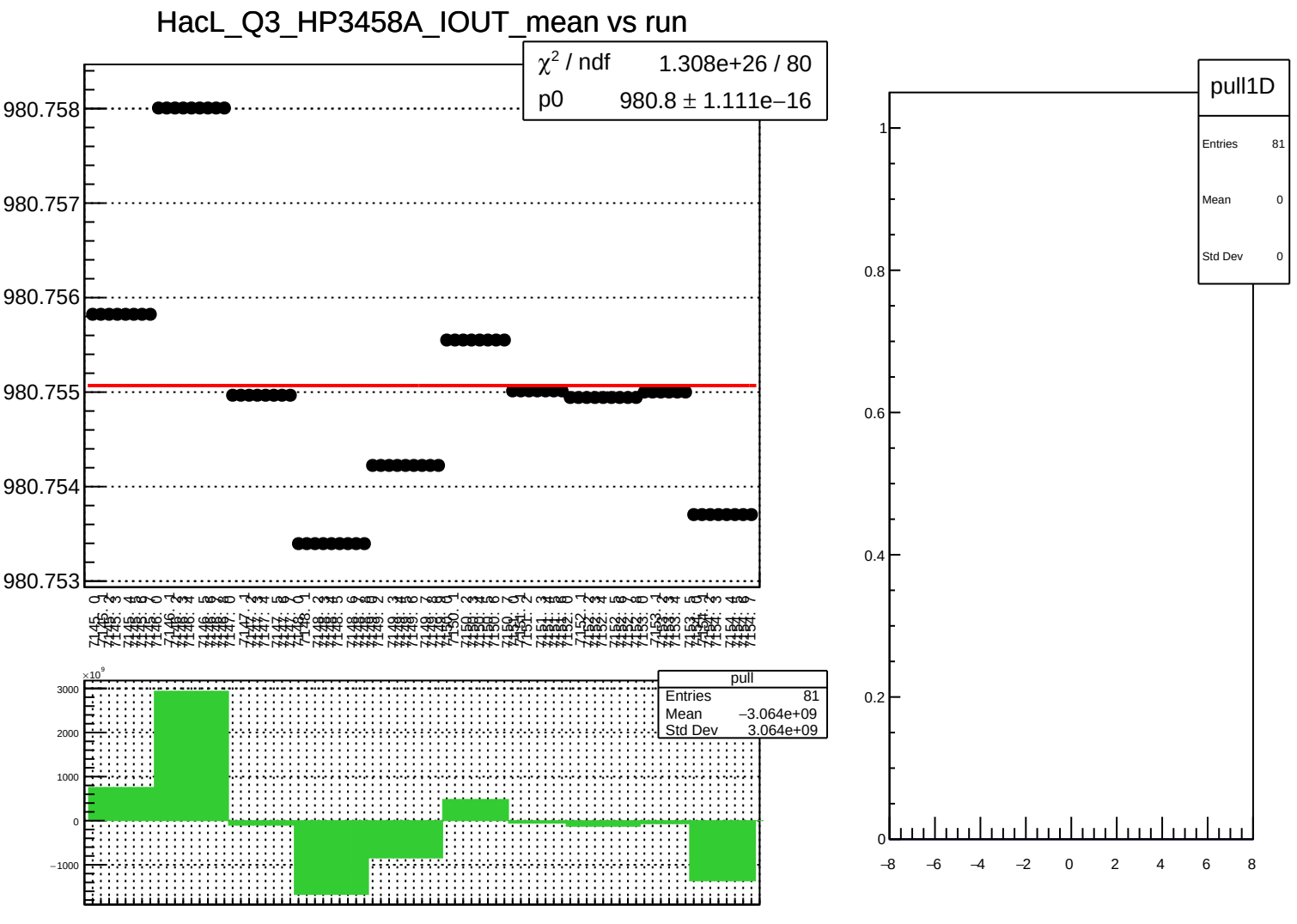

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
9.375
pull
Entries 81
Mean 40.5
Std Dev 23.38

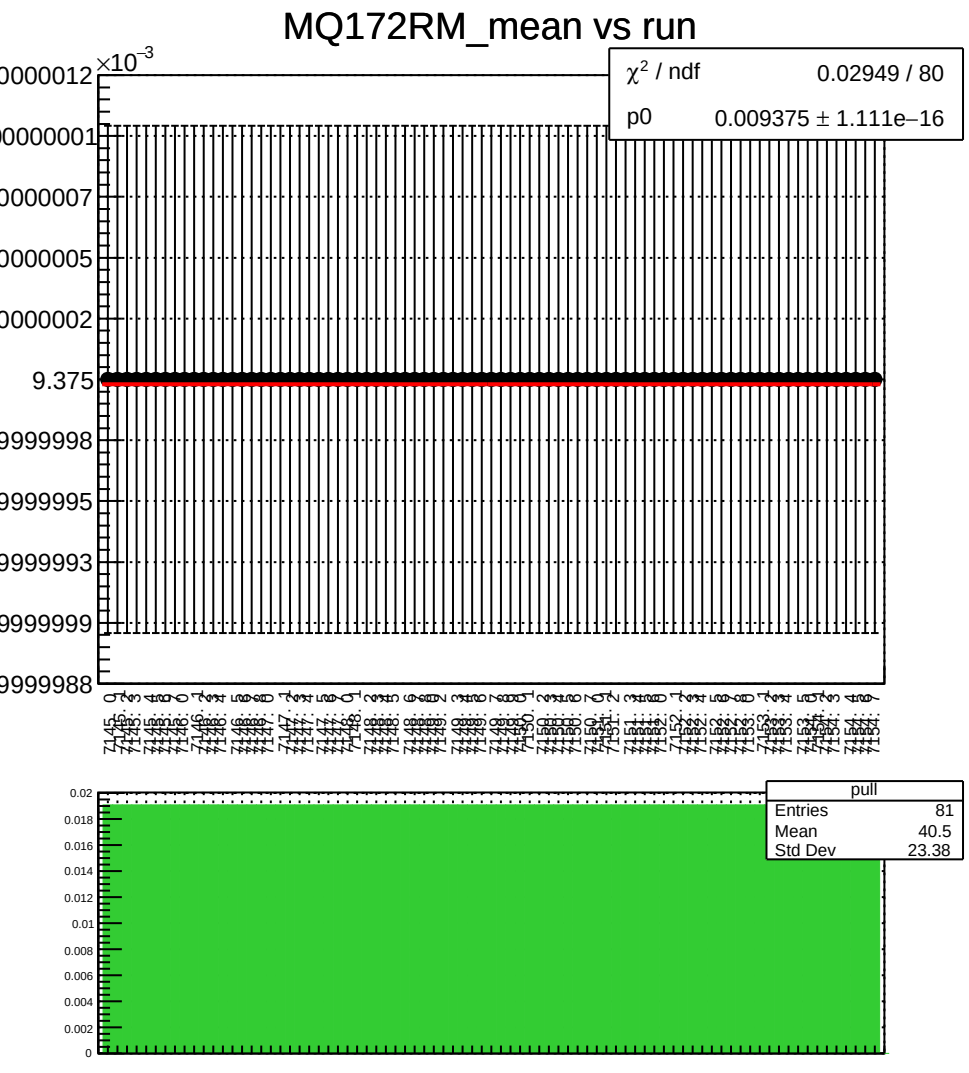

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

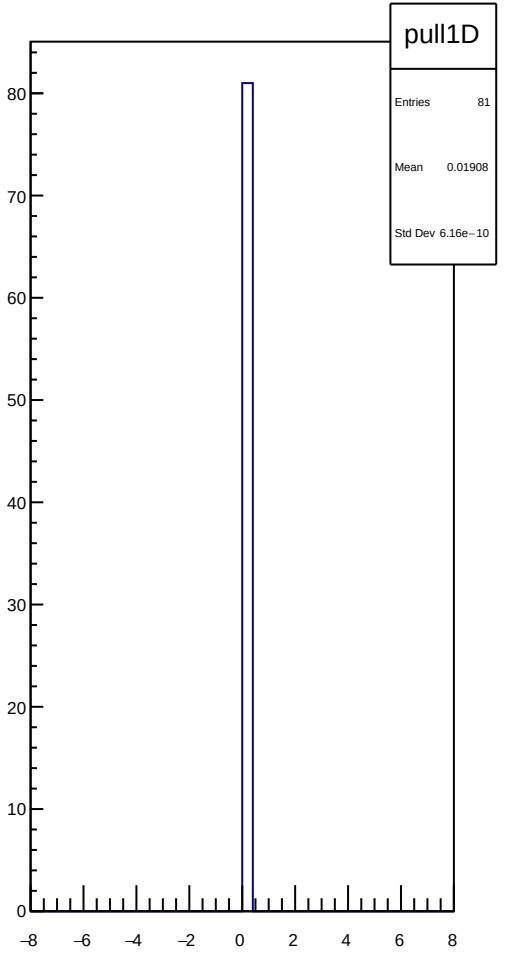

HacL_Q2_HP3458A_IOUT_mean vs run
χ^2 / ndf 4.812e+28 / 80
p0 931.8 ± 1.111e−16
931.81
931.8
931.79
931.78
931.77
931.76
931.75
931.74
931.73
931.72
pull
Entries 81
Mean −4.401e+10
Std Dev 4.401e+10
×10^12
10
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

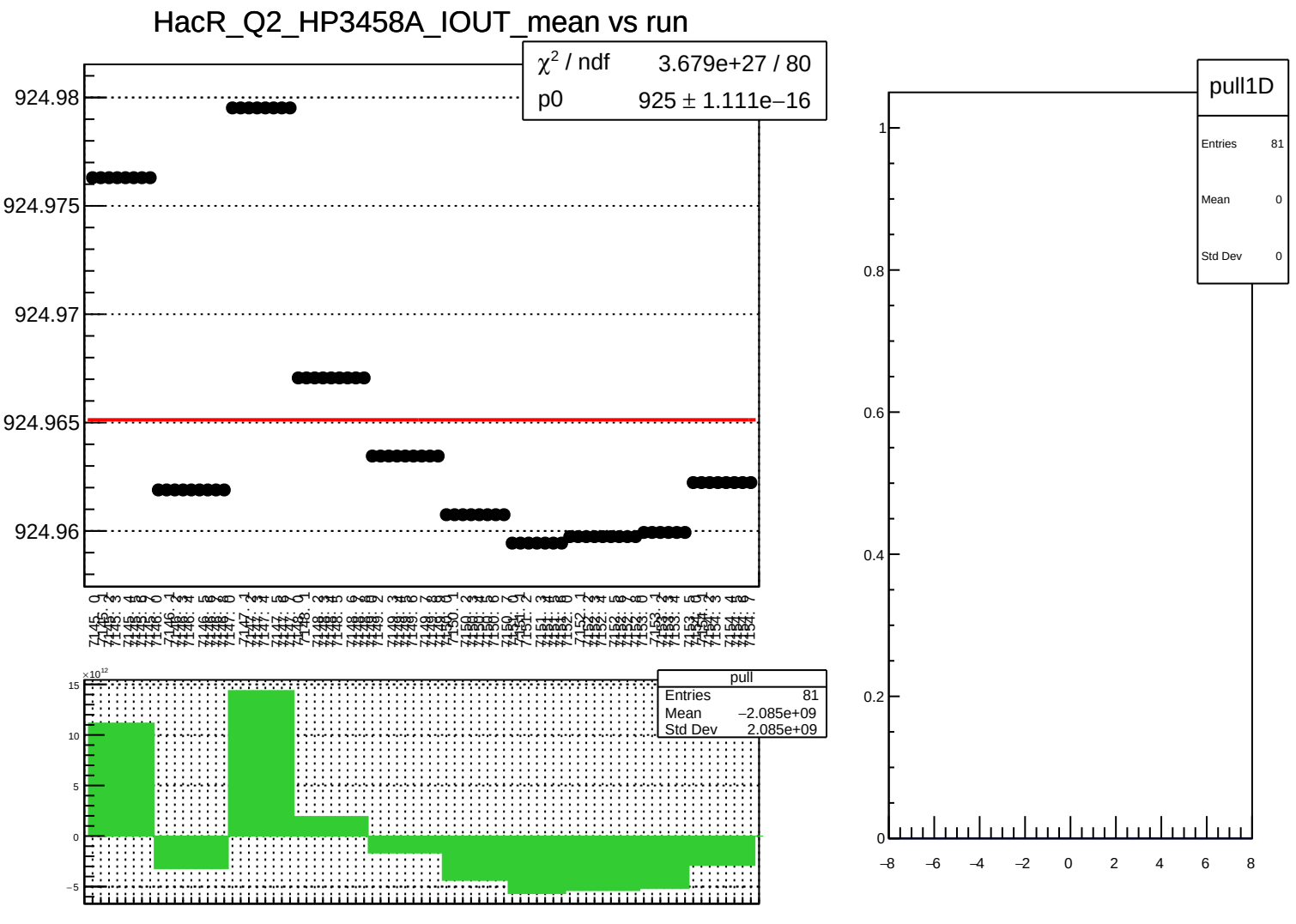

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.442e+26 / 80
p0 741.5 ± 1.111e−16
741.5
741.499
741.498
741.497
741.496
741.495
×10⁹
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −3.592e+09
Std Dev 3.592e+09

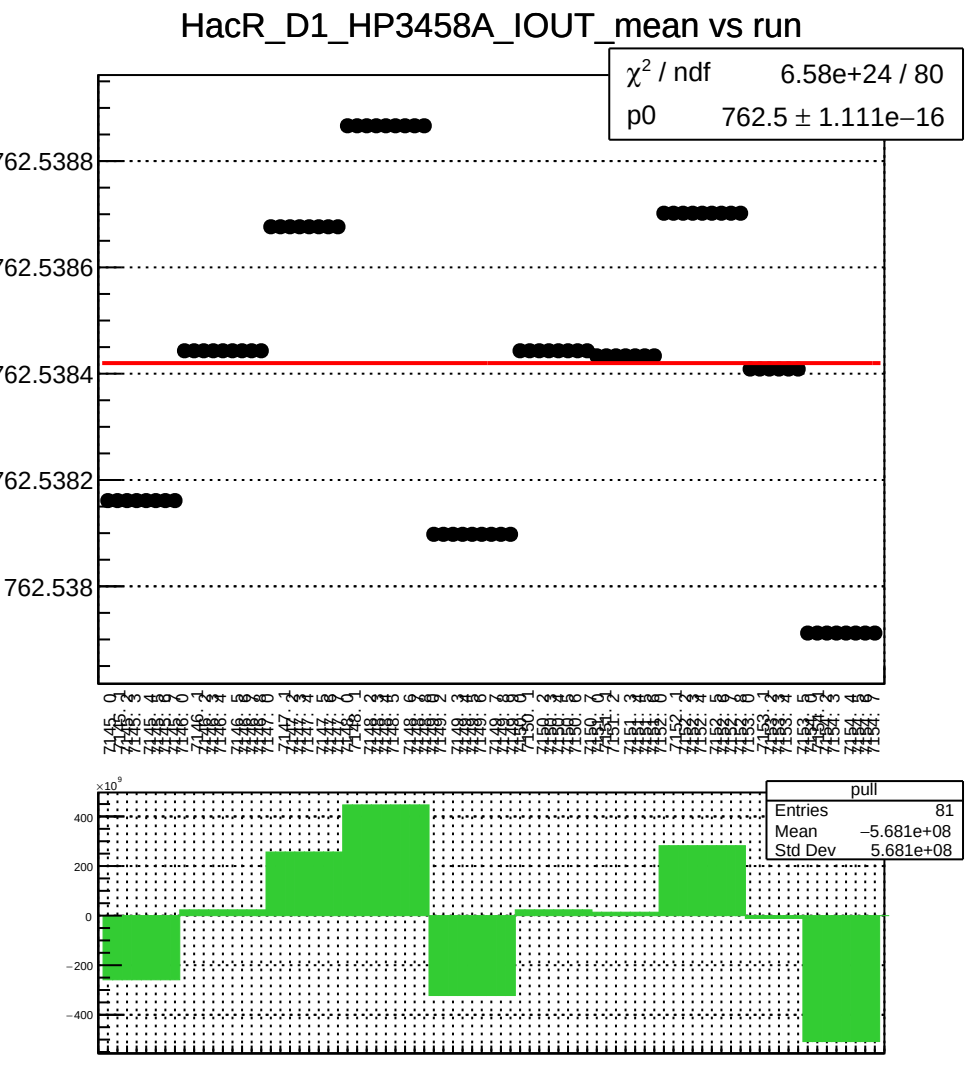

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

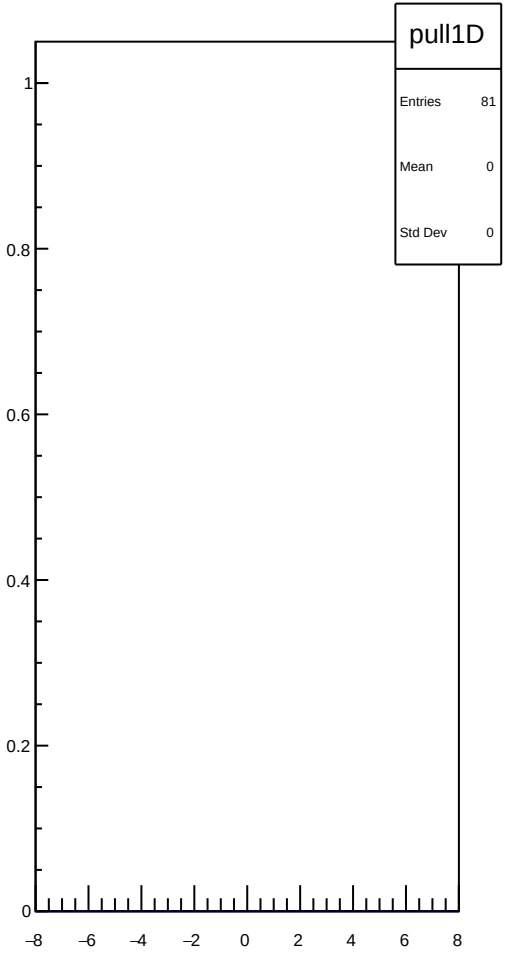

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.308e+26 / 80
p0 980.8 ± 1.111e−16
980.758
980.757
980.756
980.755
980.754
980.753
pull
Entries 81
Mean −3.064e+09
Std Dev 3.064e+09
×10⁹
3000
2000
1000
0
−1000
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

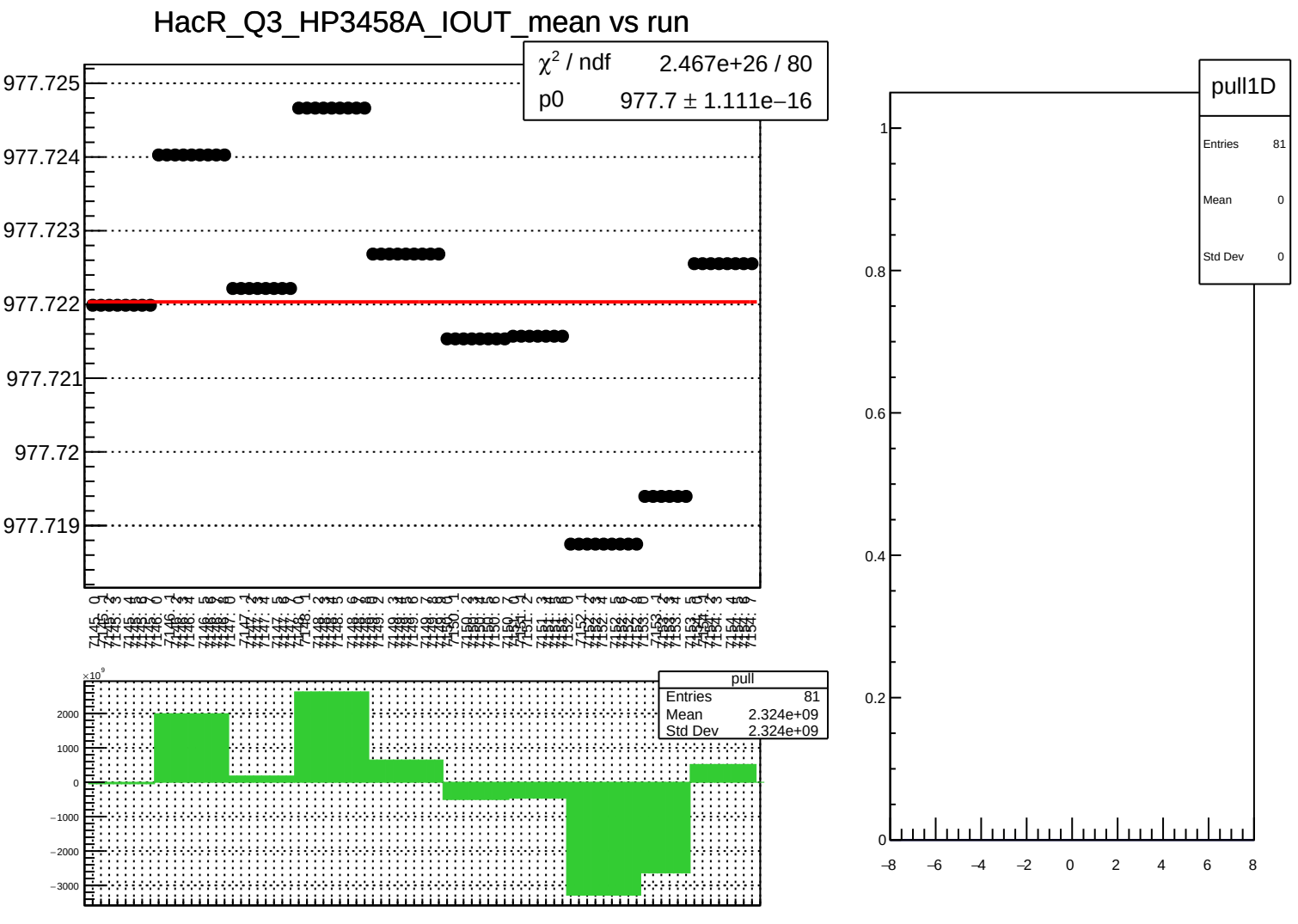

MQ172RM_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
9.375
pull
Entries 81
Mean 40.5
Std Dev 23.38

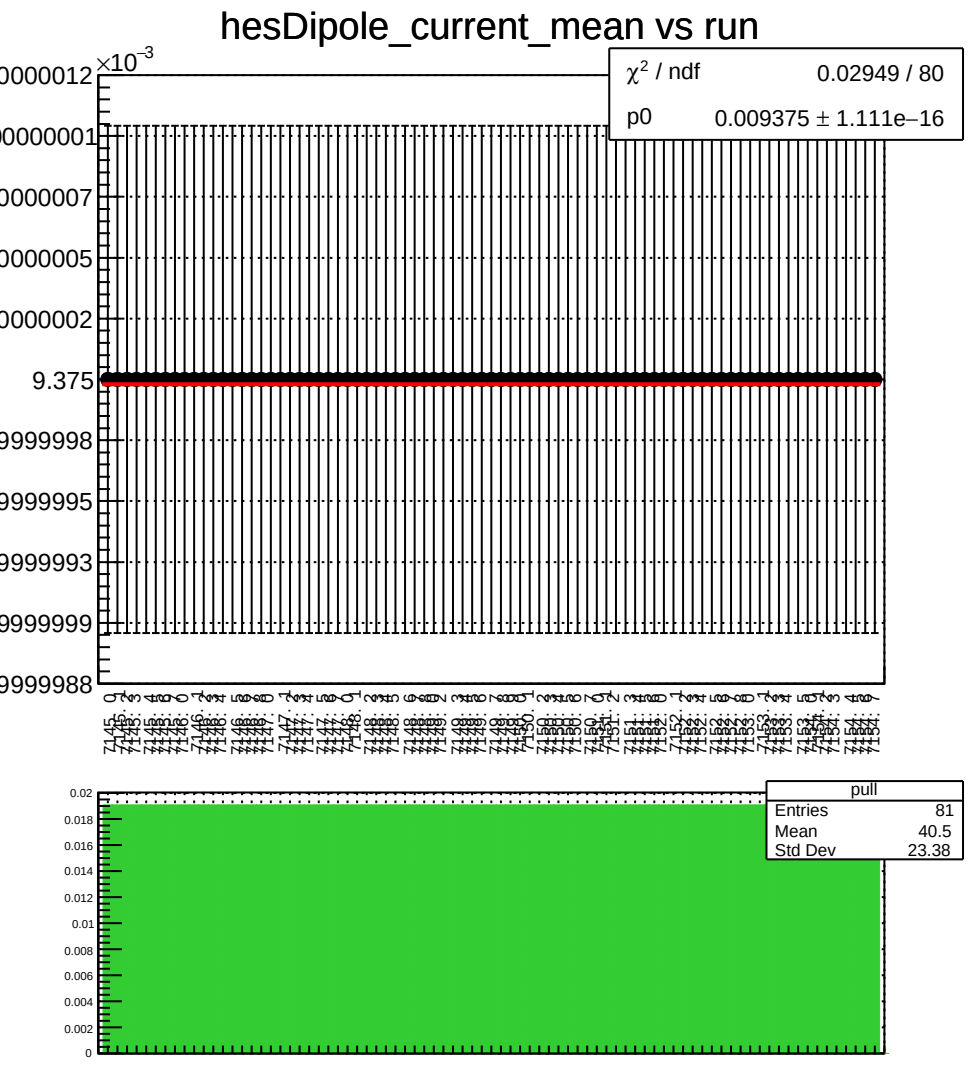

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

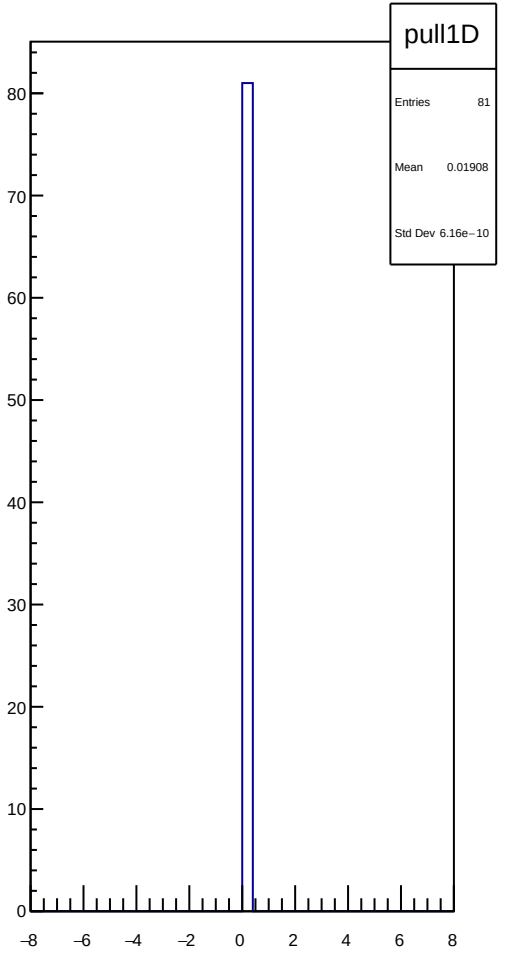

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.679e+27 / 80
p0 925 ± 1.111e−16
924.98
924.975
924.97
924.965
924.96
pull
Entries 81
Mean −2.085e+09
Std Dev 2.085e+09
×10¹²
15
10
5
0
−5
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

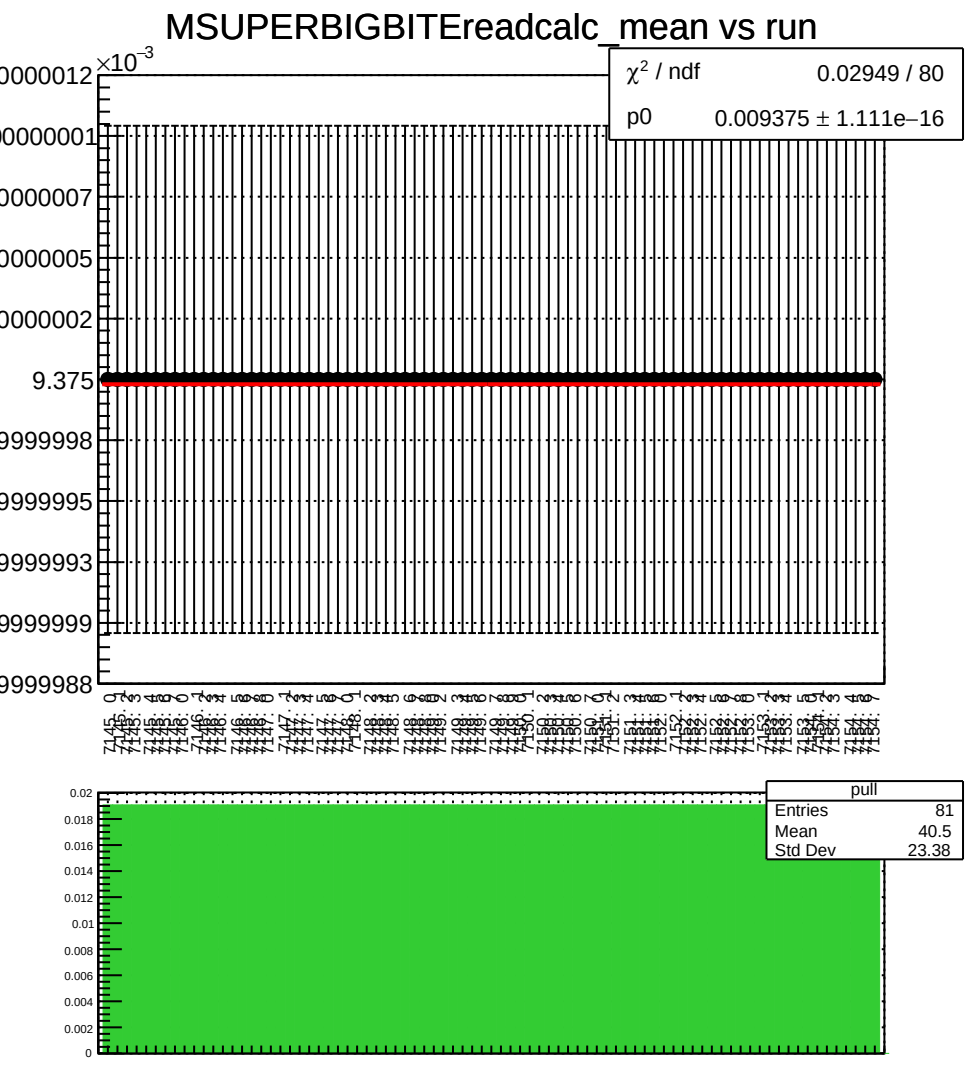

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 6.58e+24 / 80
p0 762.5 ± 1.111e−16
762.5388
762.5386
762.5384
762.5382
762.538
pull
Entries 81
Mean −5.681e+08
Std Dev 5.681e+08
×10⁹
400
200
0
−200
−400

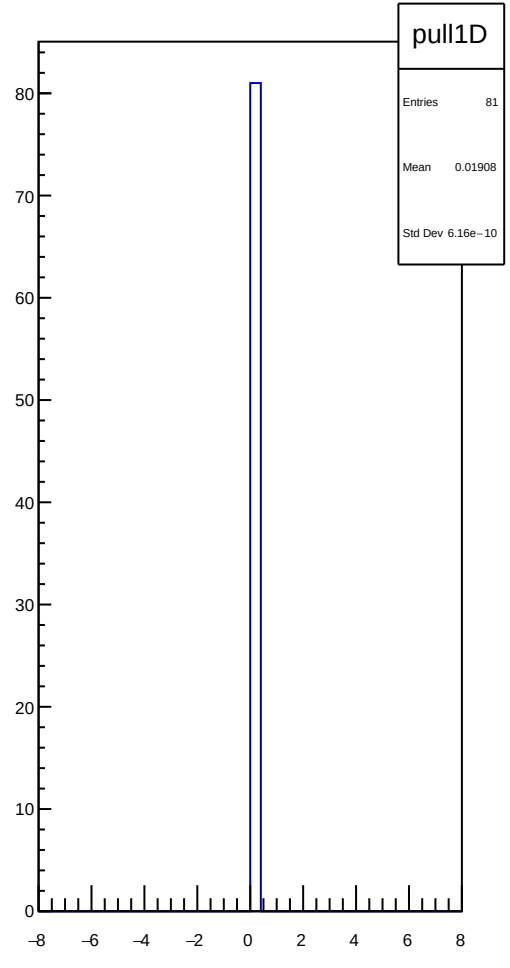

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

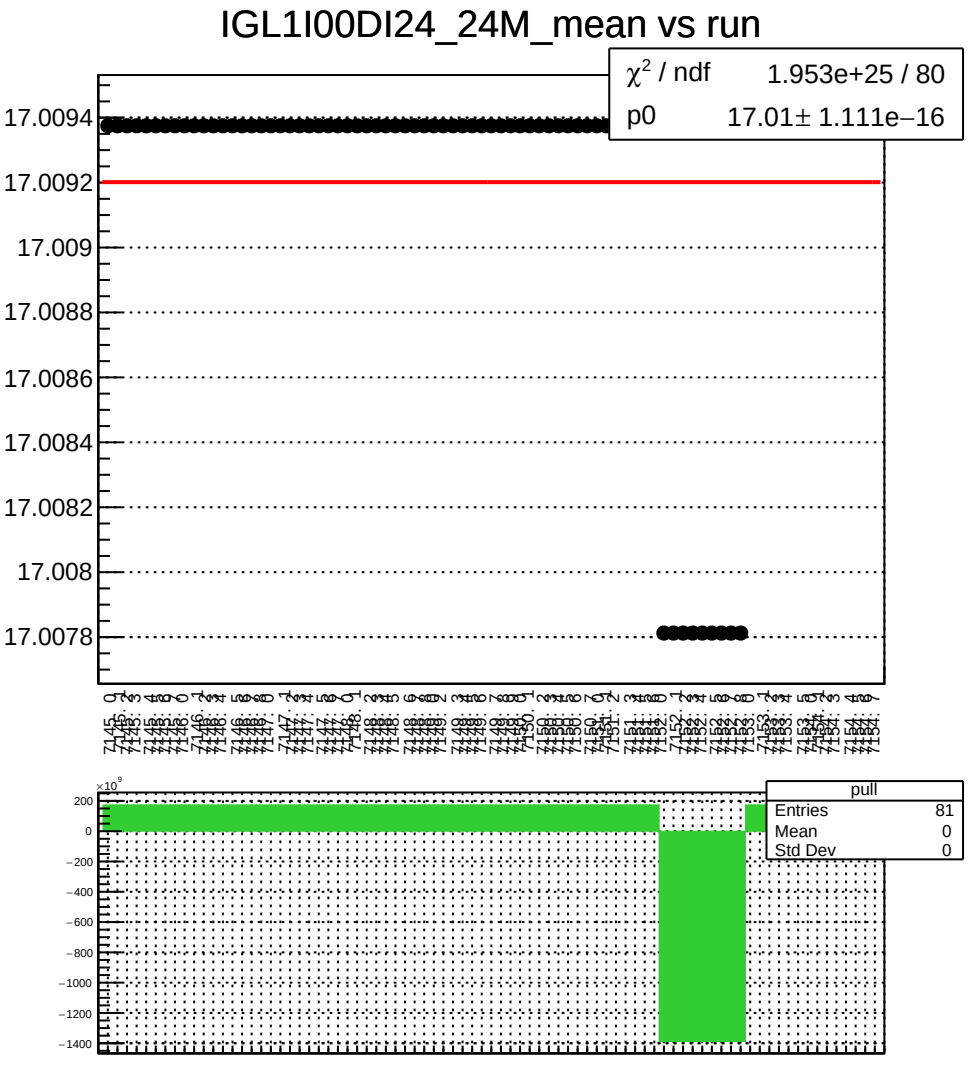

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.467e+26 / 80
p0 977.7 ± 1.111e−16
977.725
977.724
977.723
977.722
977.721
977.72
977.719
pull
Entries 81
Mean 2.324e+09
Std Dev 2.324e+09
×10⁹
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

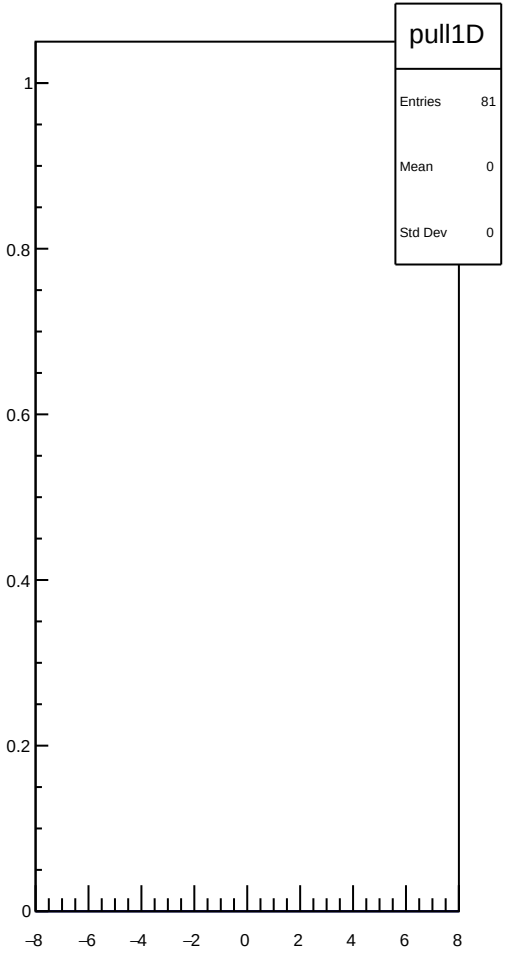

hesDipole_current_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
9.375
pull
Entries 81
Mean 40.5
Std Dev 23.38

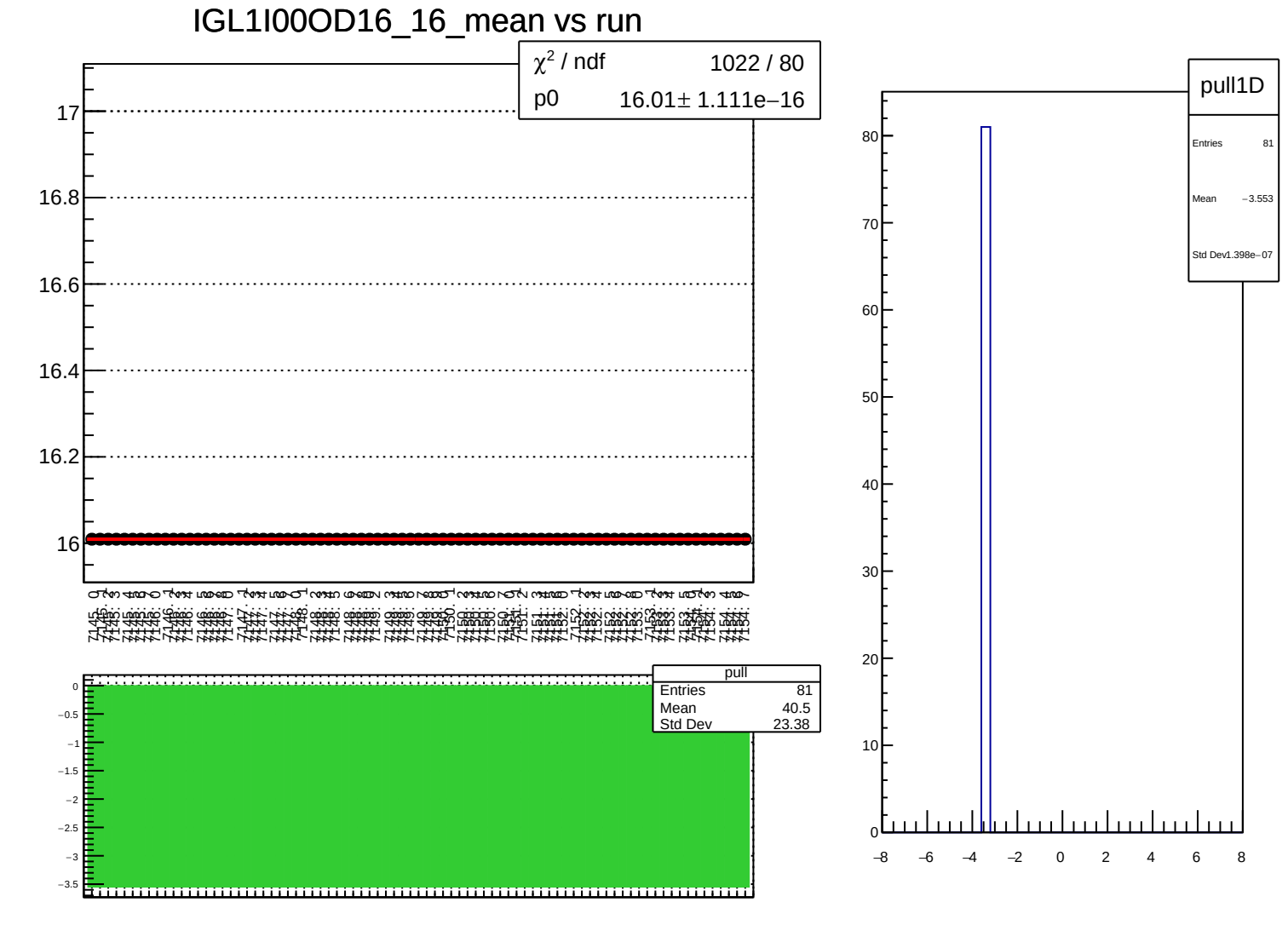

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

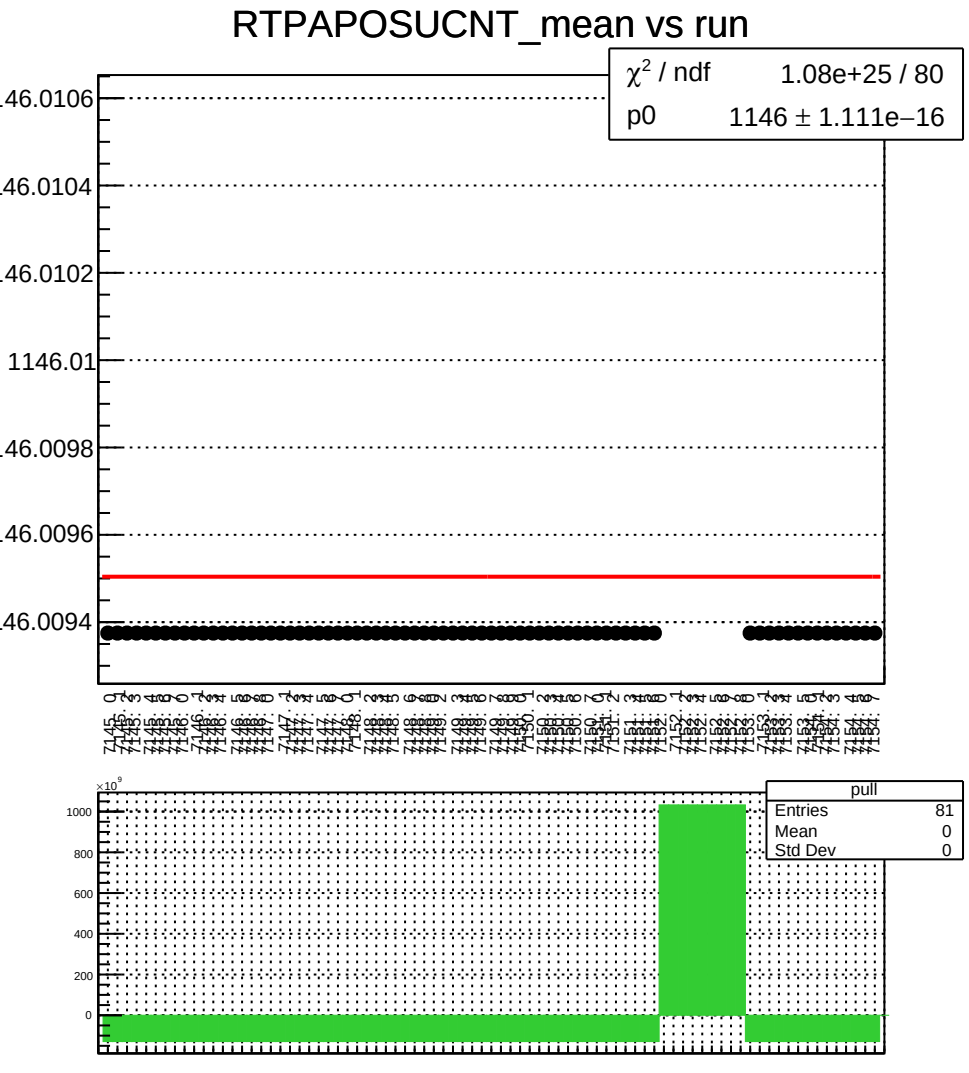

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
9.375
pull
Entries 81
Mean 40.5
Std Dev 23.38

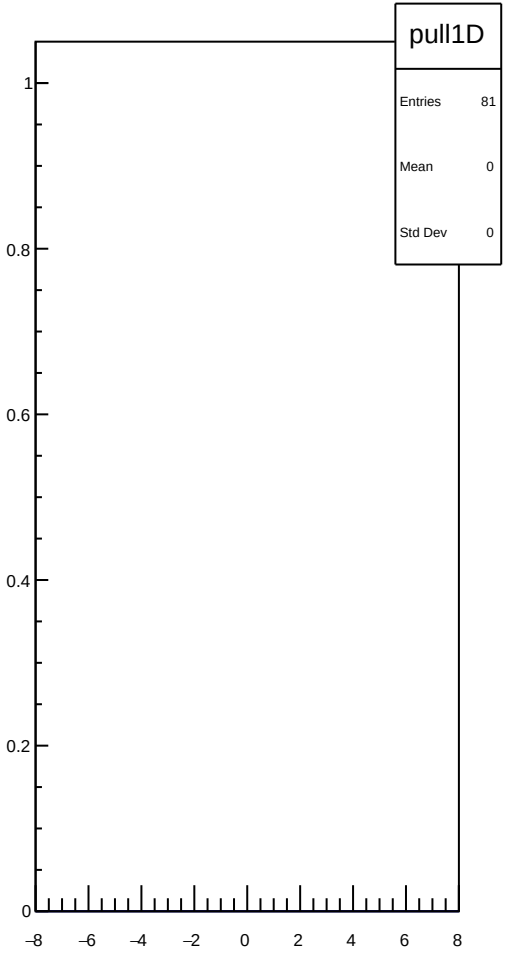

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

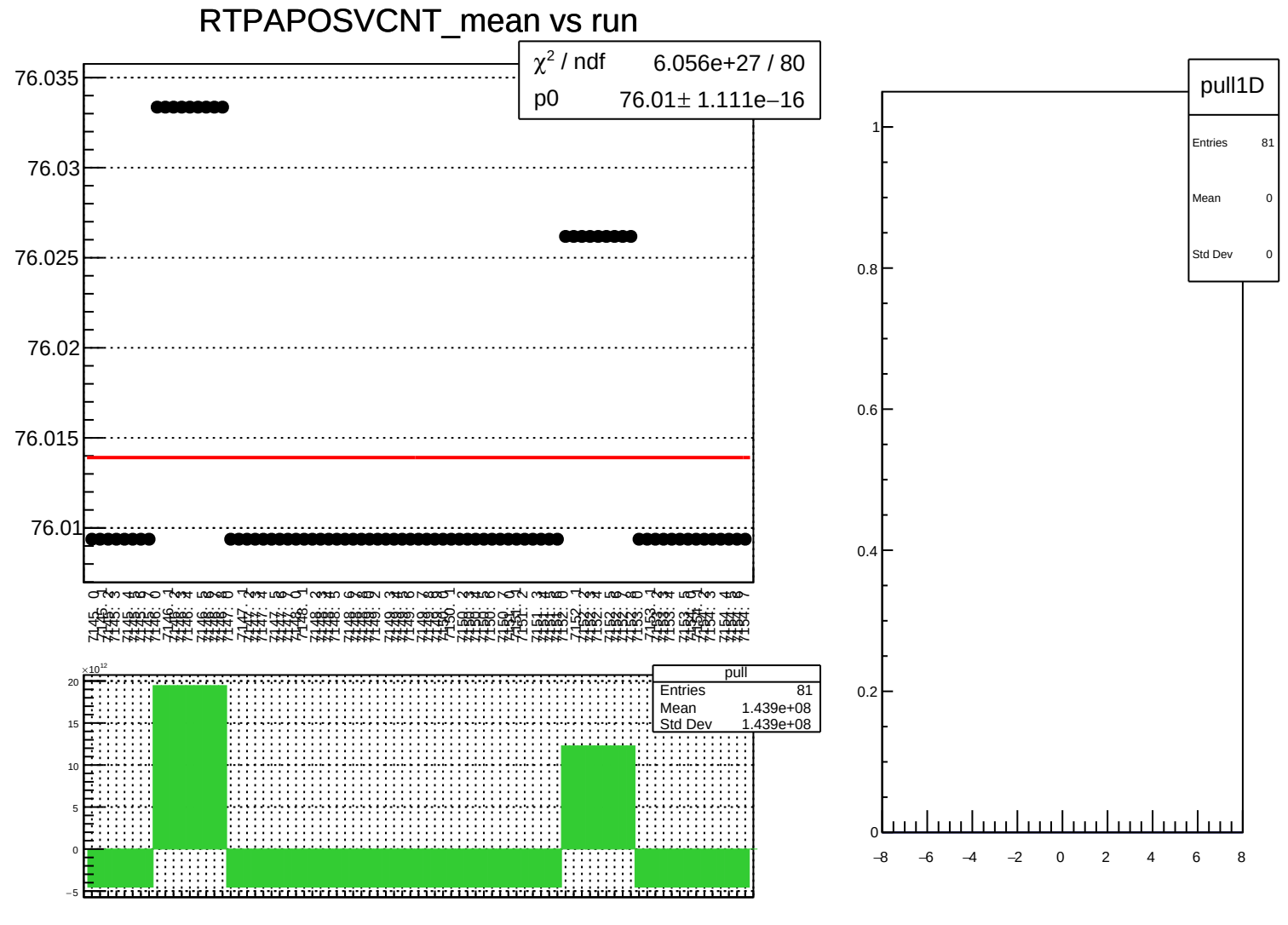

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.953e+25 / 80
p0 17.01± 1.111e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 81
Mean 0
Std Dev 0
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400


pull1D
Entries 81
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 1022 / 80
p0 16.01± 1.111e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 81
Mean −3.553
Std Dev 1.398e−07
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 1.08e+25 / 80
p0 1146 ± 1.111e−16
1146.0106
1146.0104
1146.0102
1146.01
1146.0098
1146.0096
1146.0094
pull
Entries 81
Mean 0
Std Dev 0
×10⁹
1000
800
600
400
200
0


pull1D
Entries 81
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 6.056e+27 / 80
p0 76.01± 1.111e−16
76.035
76.03
76.025
76.02
76.015
76.01
pull
Entries 81
Mean 1.439e+08
Std Dev 1.439e+08
pull1D
Entries 81
Mean 0
Std Dev 0