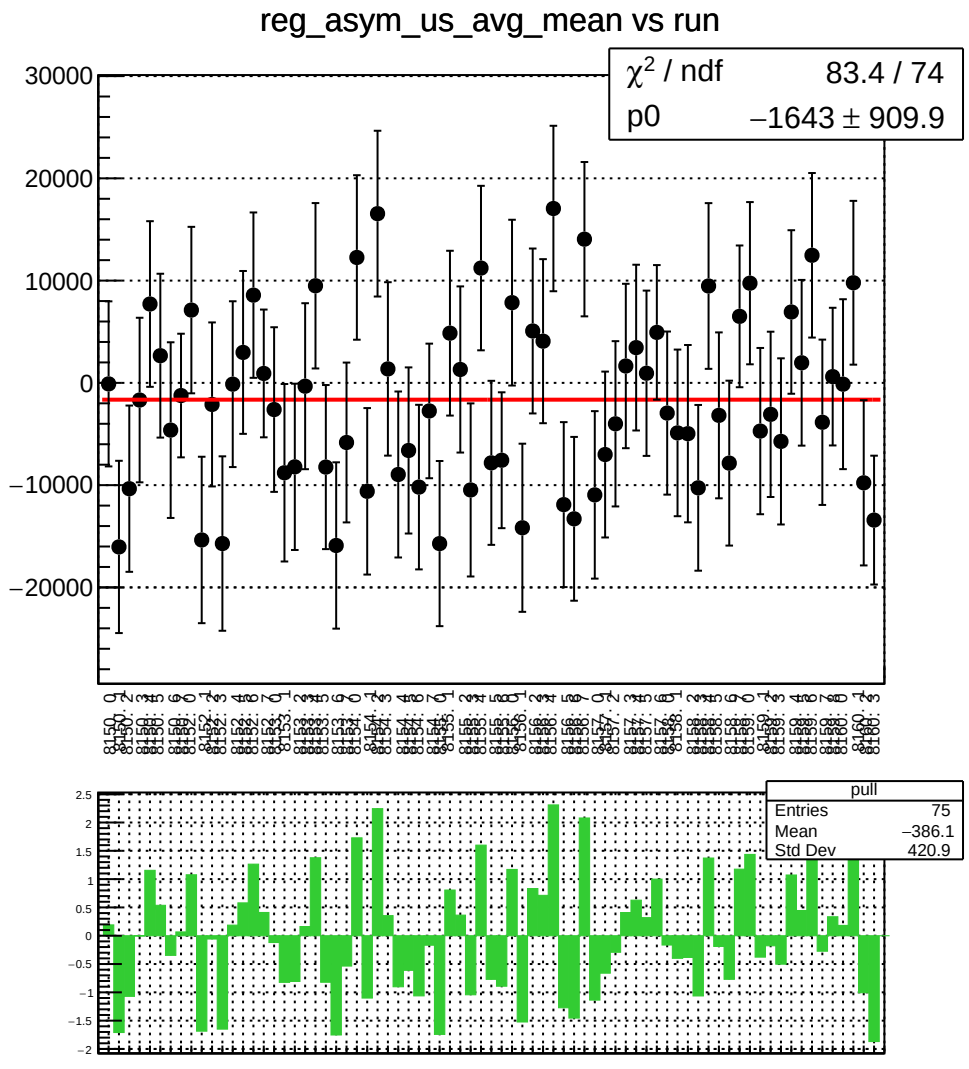
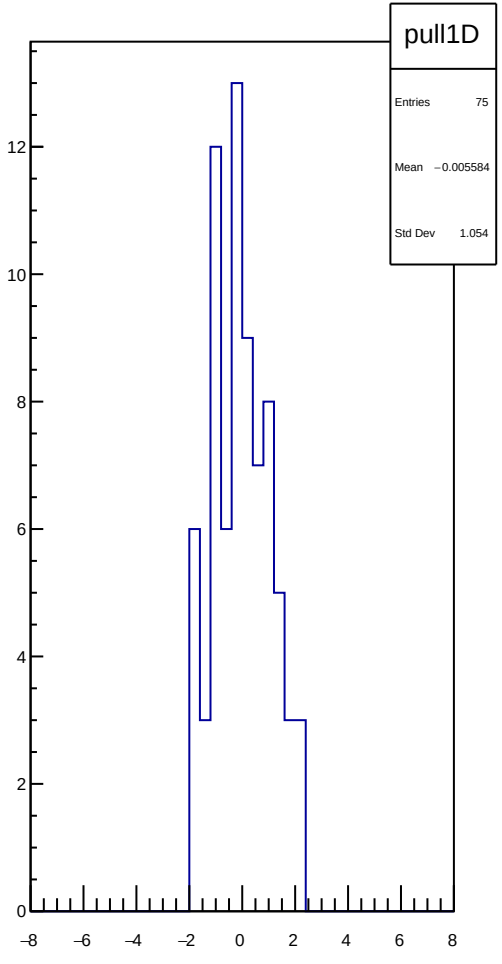
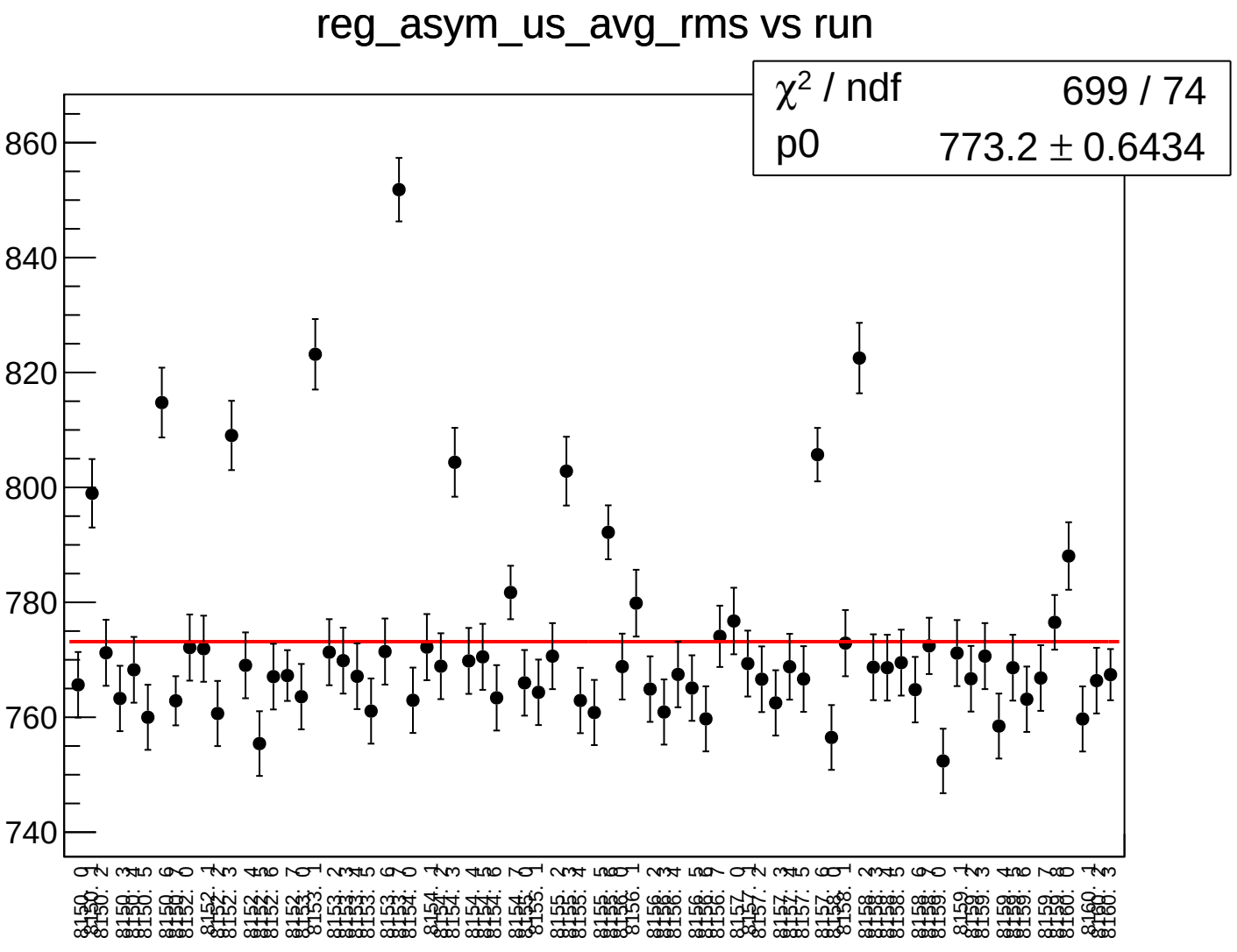
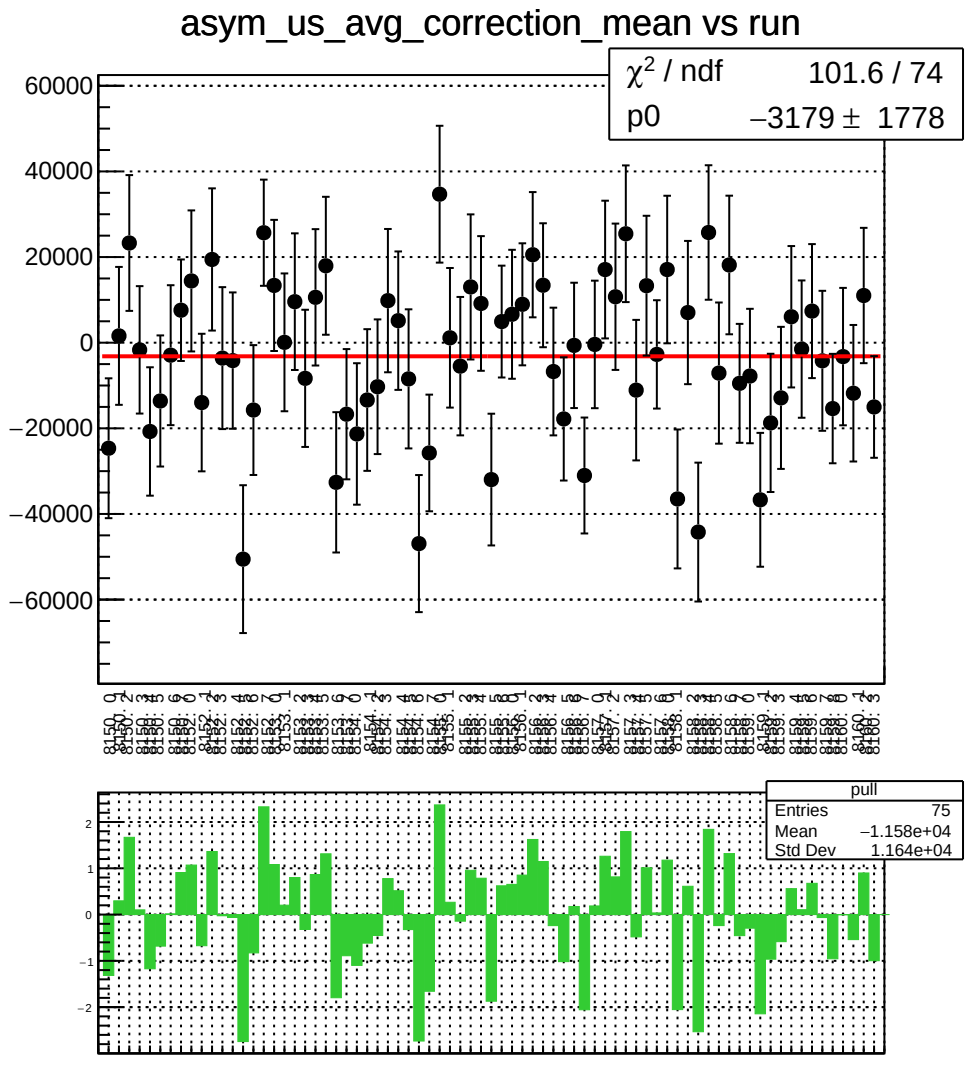
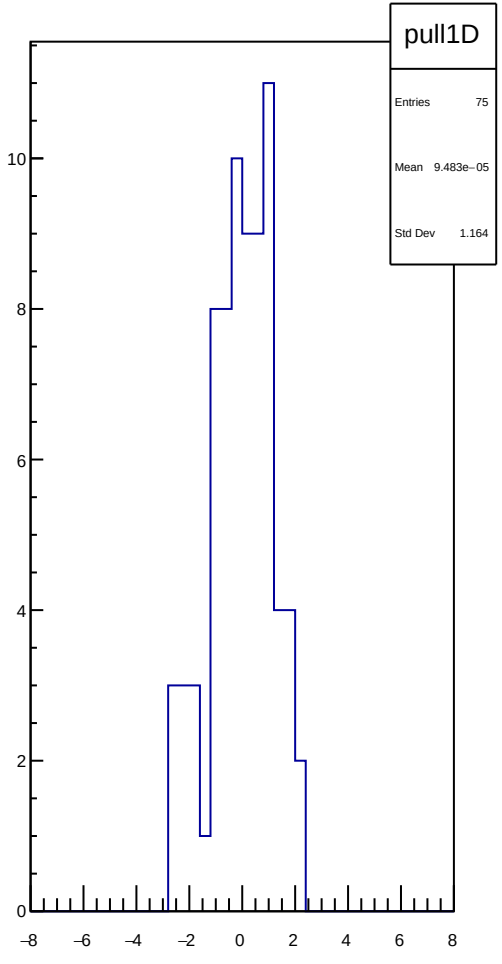
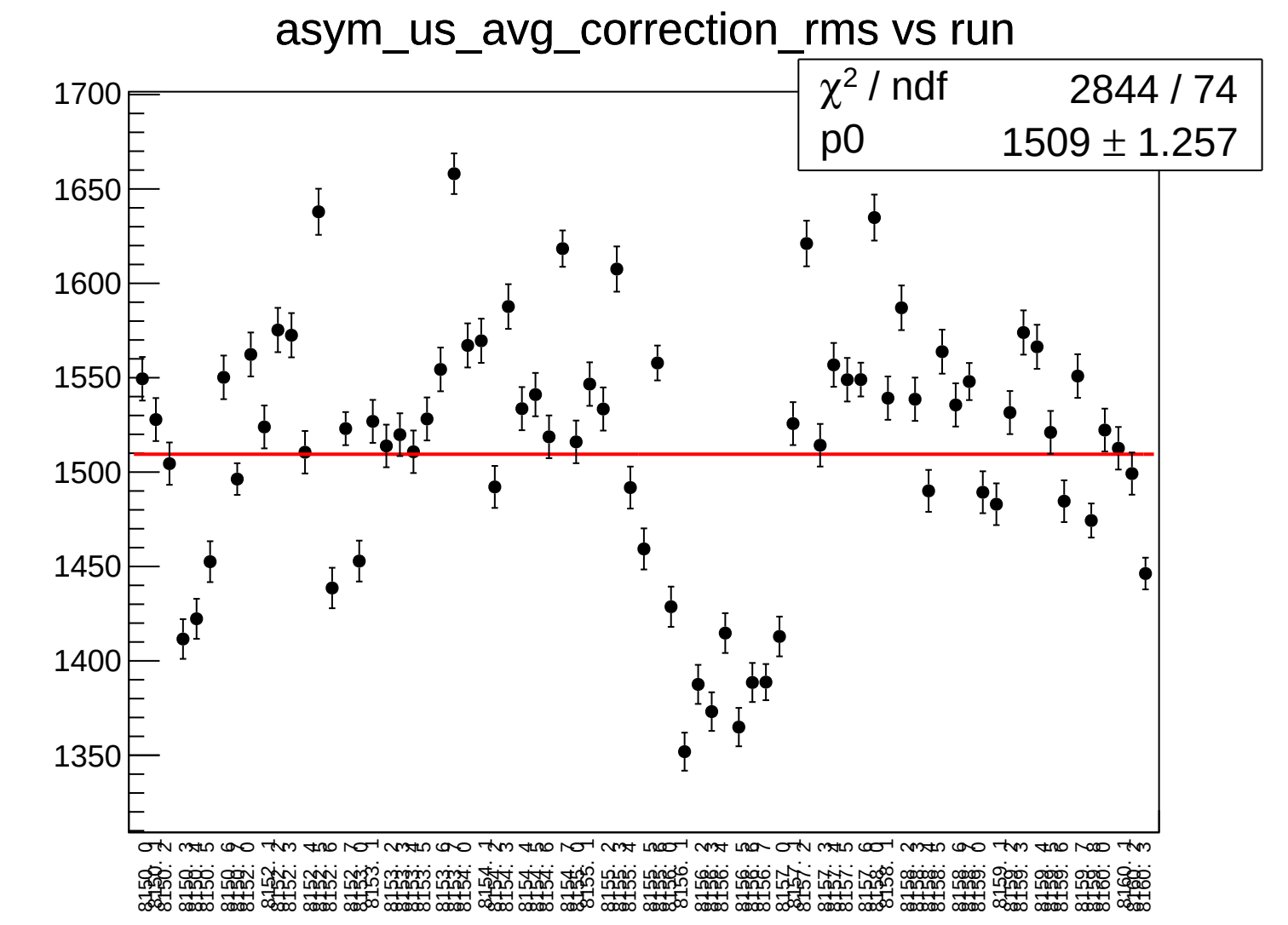

reg_asym_us_avg_mean vs run
χ² / ndf 83.4 / 74
p0 −1643 ± 909.9
30000
20000
10000
0
−10000
−20000
pull
Entries 75
Mean −386.1
Std Dev 420.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

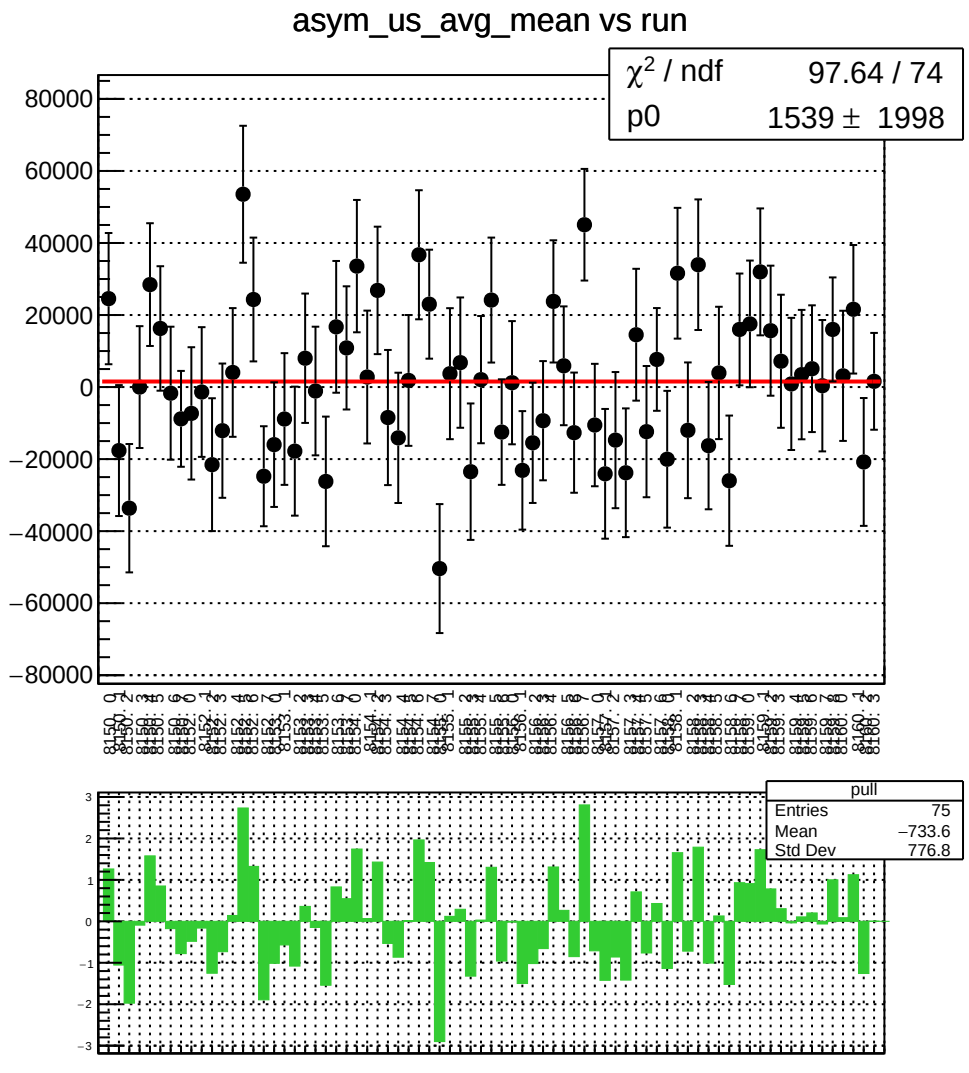

pull1D
Entries 75
Mean −0.005584
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

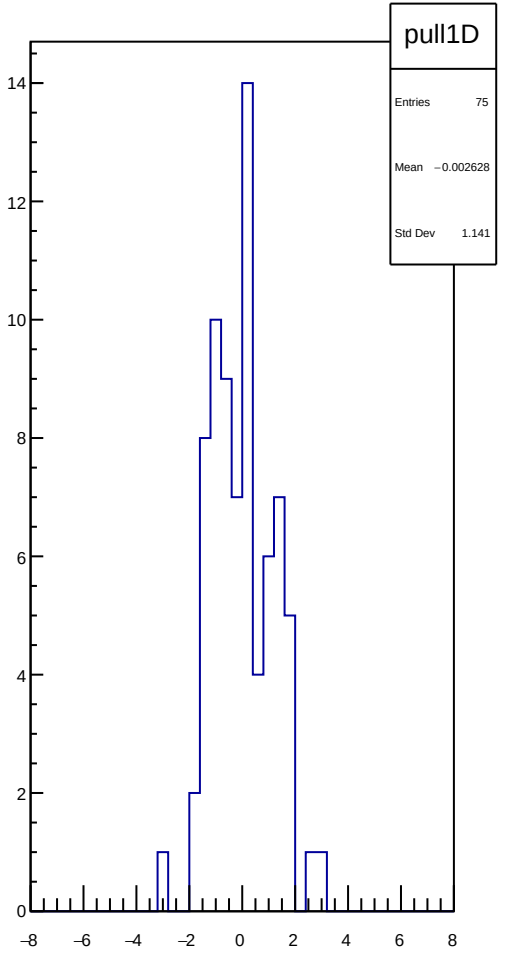

reg_asym_us_avg_rms vs run
χ² / ndf 699 / 74
p0 773.2 ± 0.6434
860
840
820
800
780
760
740

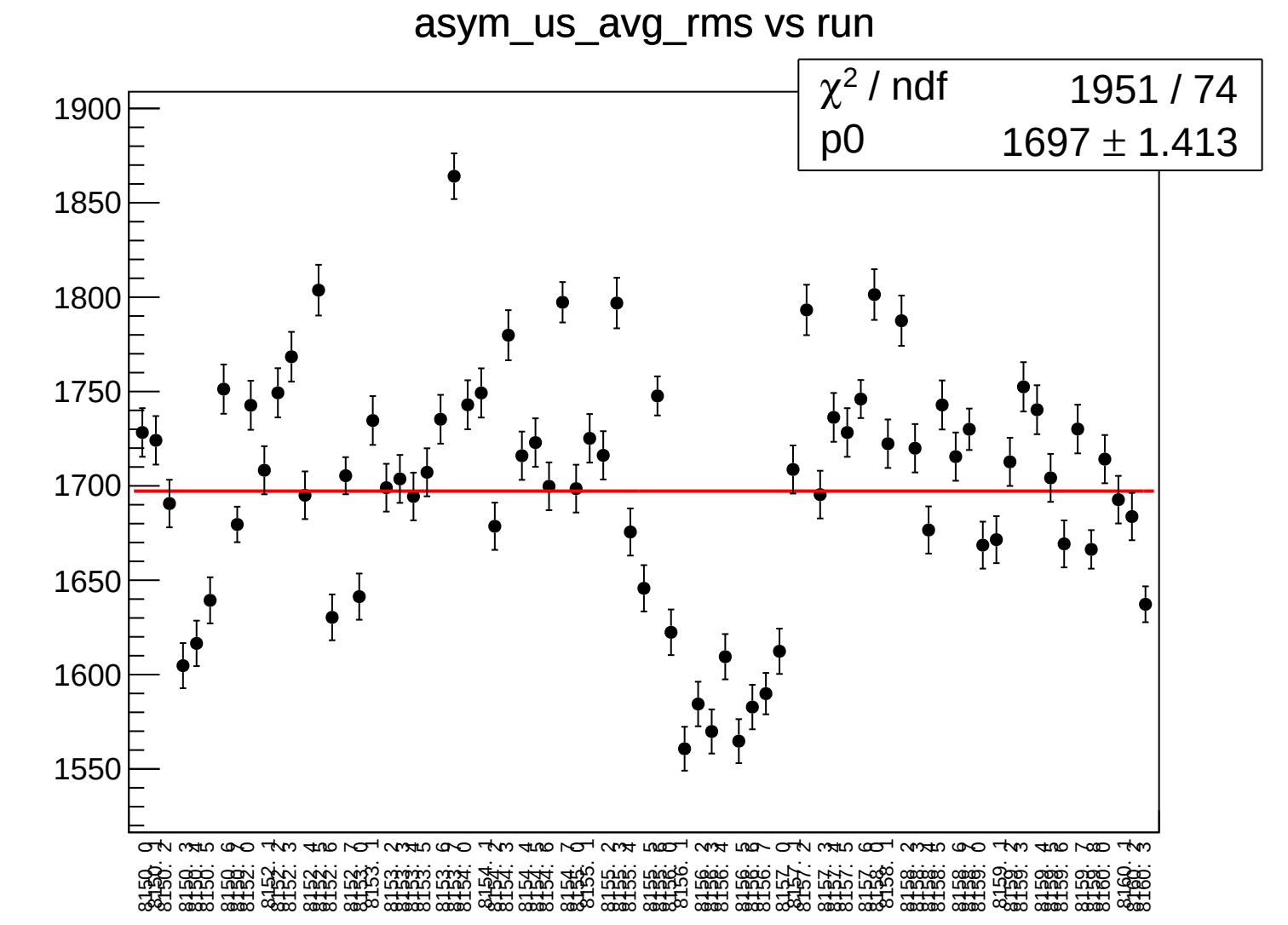

asym_us_avg_correction_mean vs run
χ² / ndf 101.6 / 74
p0 −3179 ± 1778
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 75
Mean −1.158e+04
Std Dev 1.164e+04
2
1
0
−1
−2

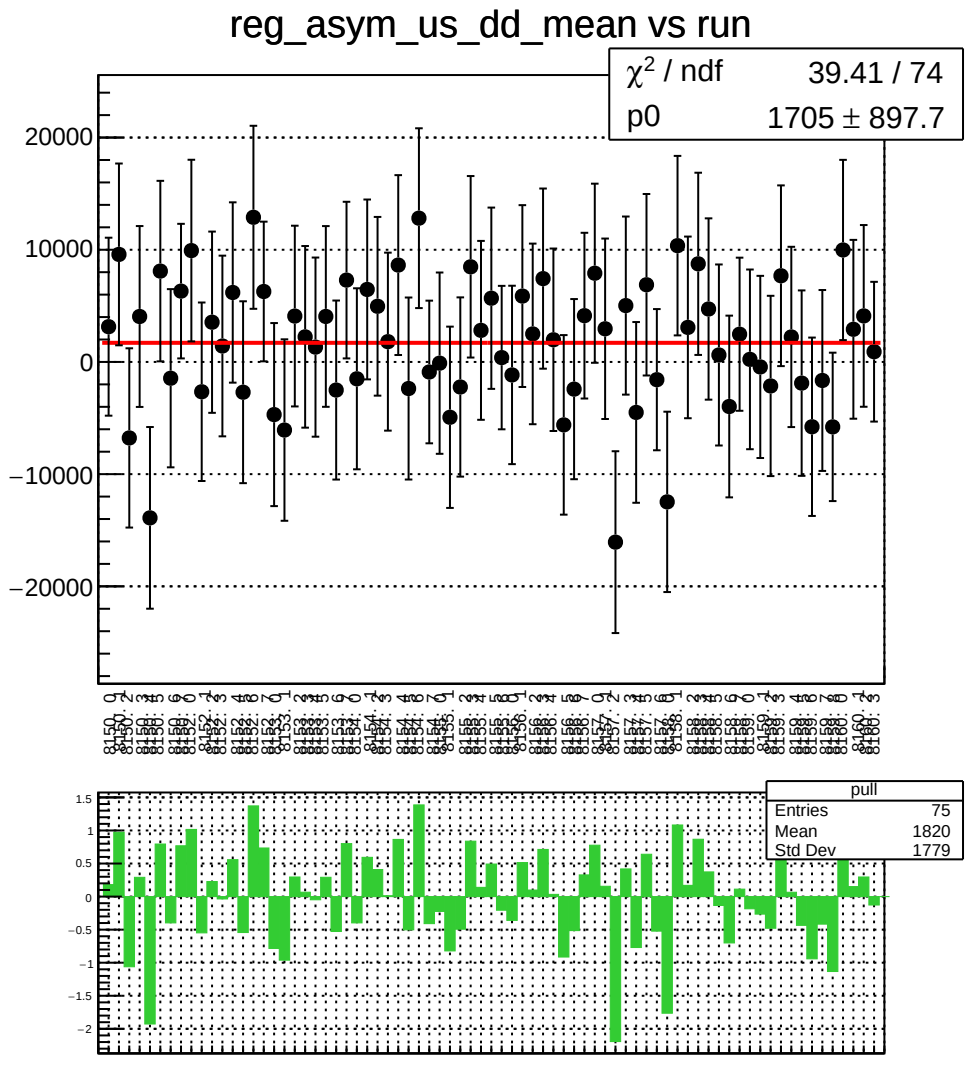

pull1D
Entries 75
Mean 9.483e−05
Std Dev 1.164
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

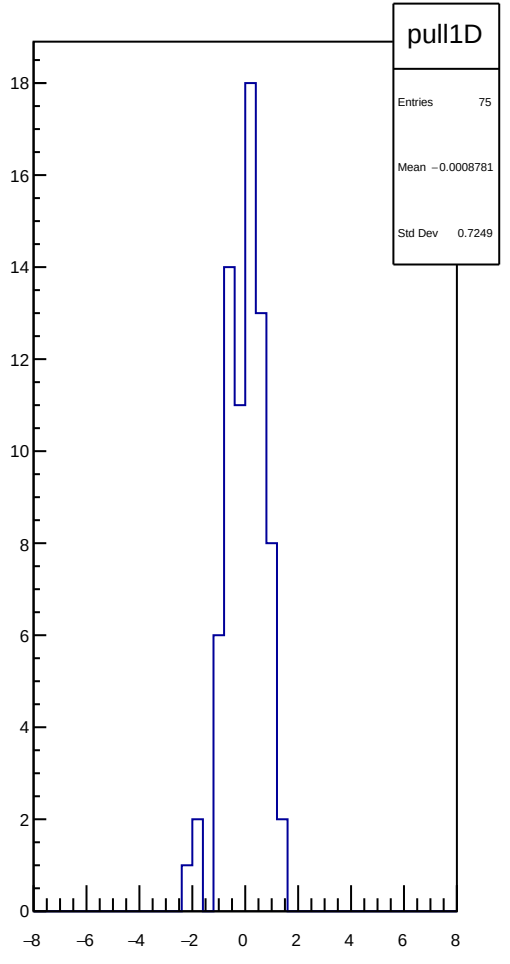

asym_us_avg_correction_rms vs run
χ² / ndf 2844 / 74
p0 1509 ± 1.257
1700
1650
1600
1550
1500
1450
1400
1350

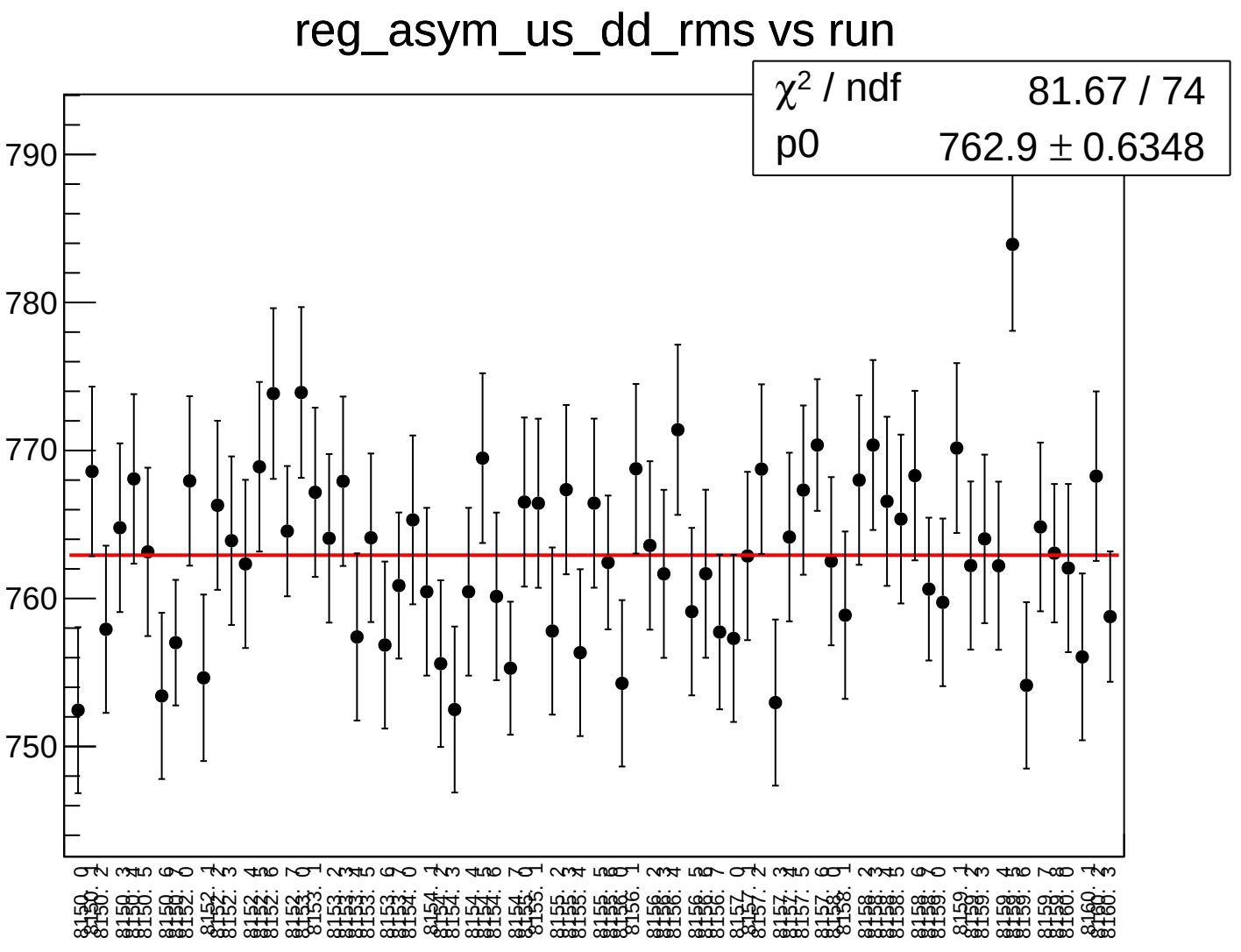

asym_us_avg_mean vs run
χ² / ndf 97.64 / 74
p0 1539 ± 1998
pull
Entries 75
Mean −733.6
Std Dev 776.8

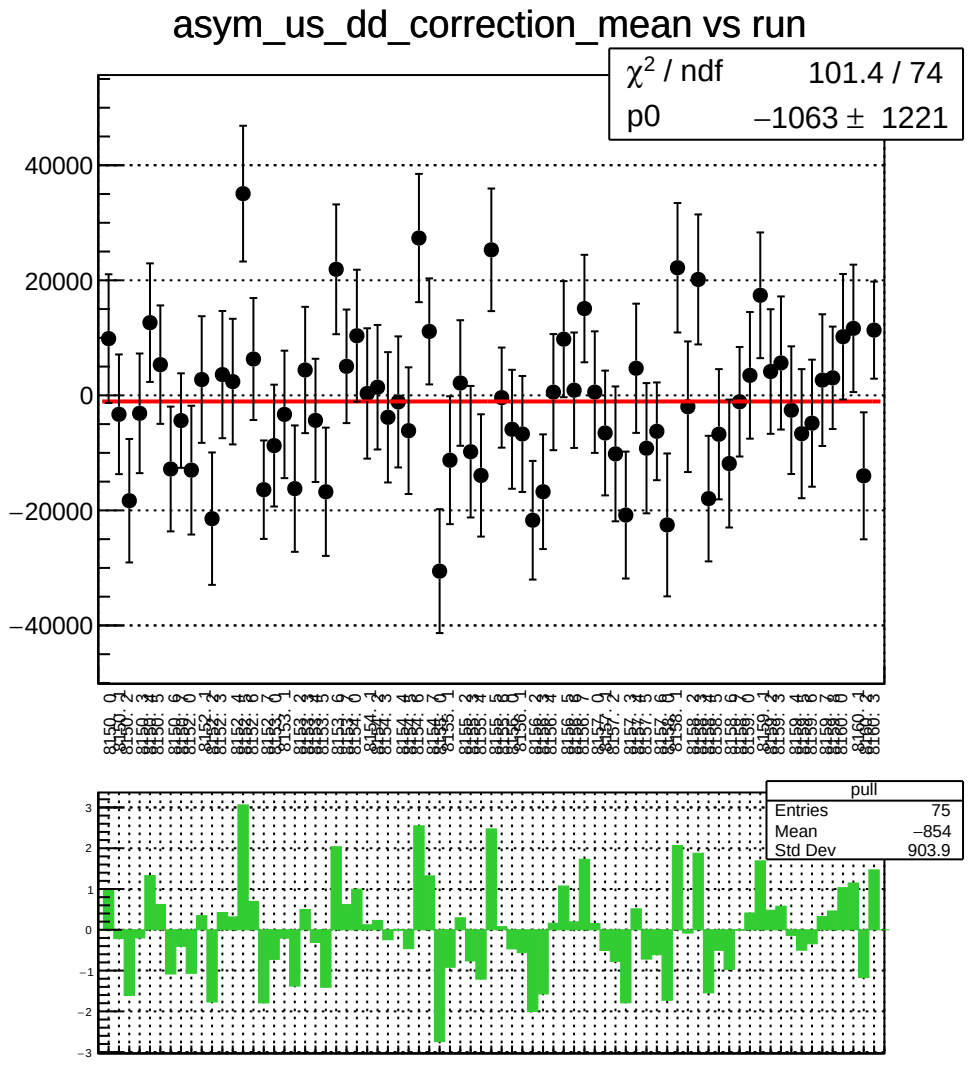

pull1D
Entries 75
Mean −0.002628
Std Dev 1.141

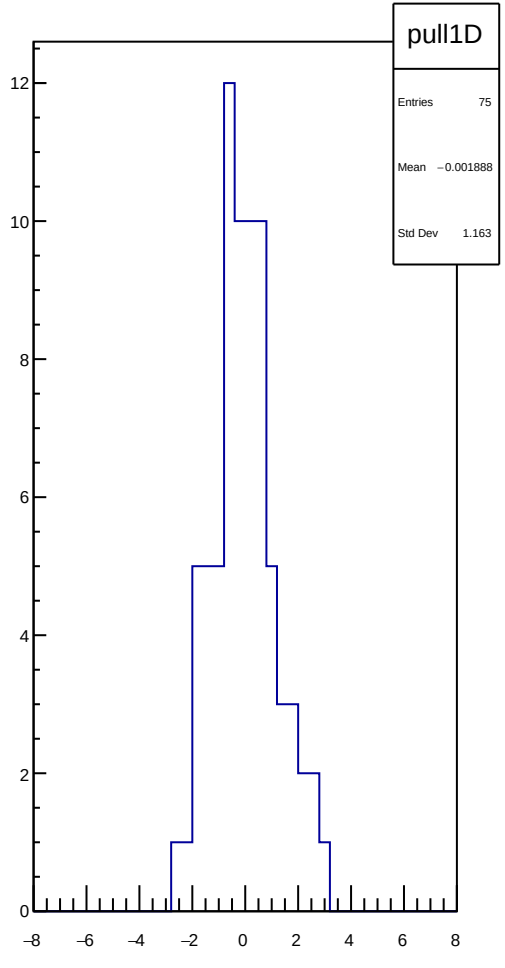

asym_us_avg_rms vs run
χ² / ndf 1951 / 74
p0 1697 ± 1.413
1900
1850
1800
1750
1700
1650
1600
1550

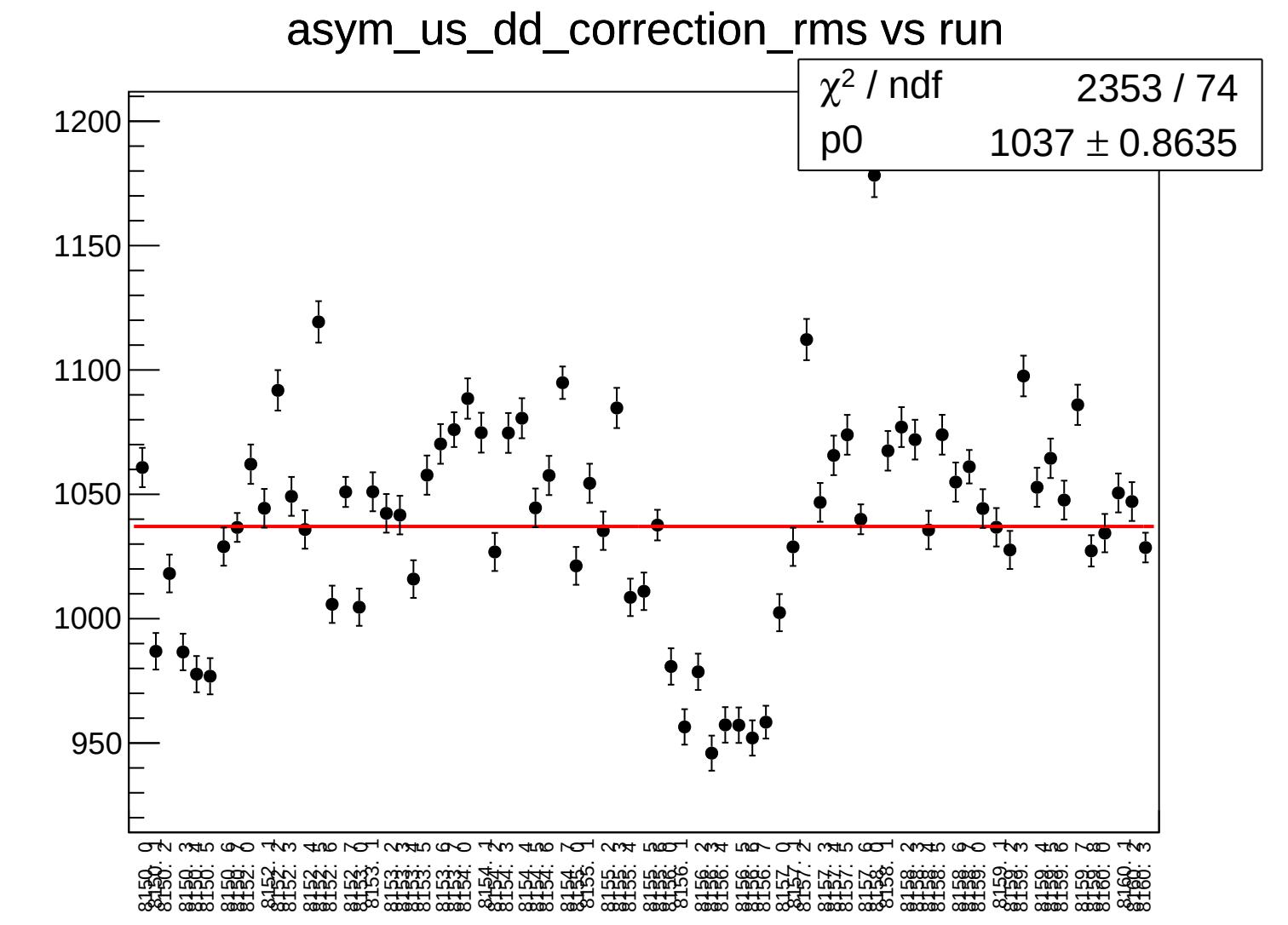

reg_asym_us_dd_mean vs run
χ² / ndf 39.41 / 74
p0 1705 ± 897.7
20000
10000
0
−10000
−20000
pull
Entries 75
Mean 1820
Std Dev 1779
1.5
1
0.5
0
−0.5
−1
−1.5
−2

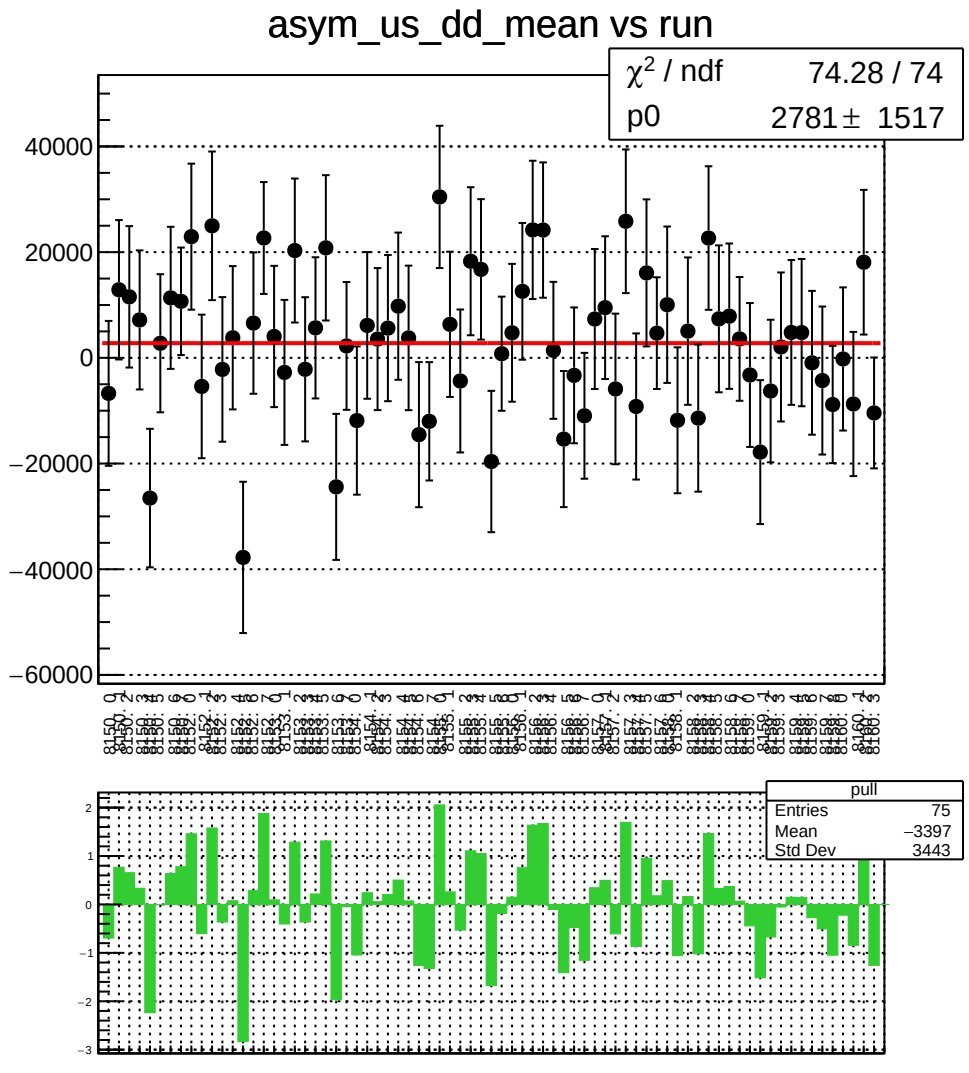

pull1D
Entries 75
Mean −0.0008781
Std Dev 0.7249
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

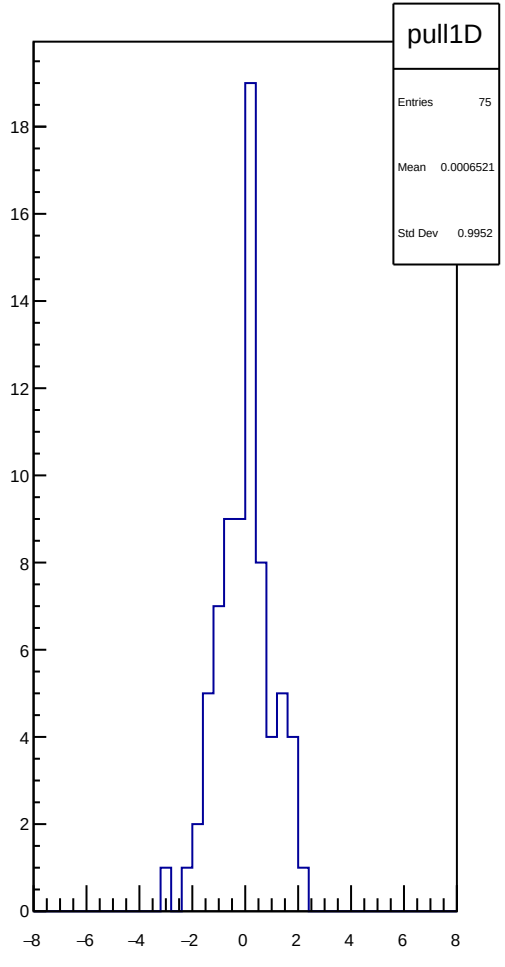

reg_asym_us_dd_rms vs run
χ^2 / ndf 81.67 / 74
p0 762.9 ± 0.6348
790
780
770
760
750

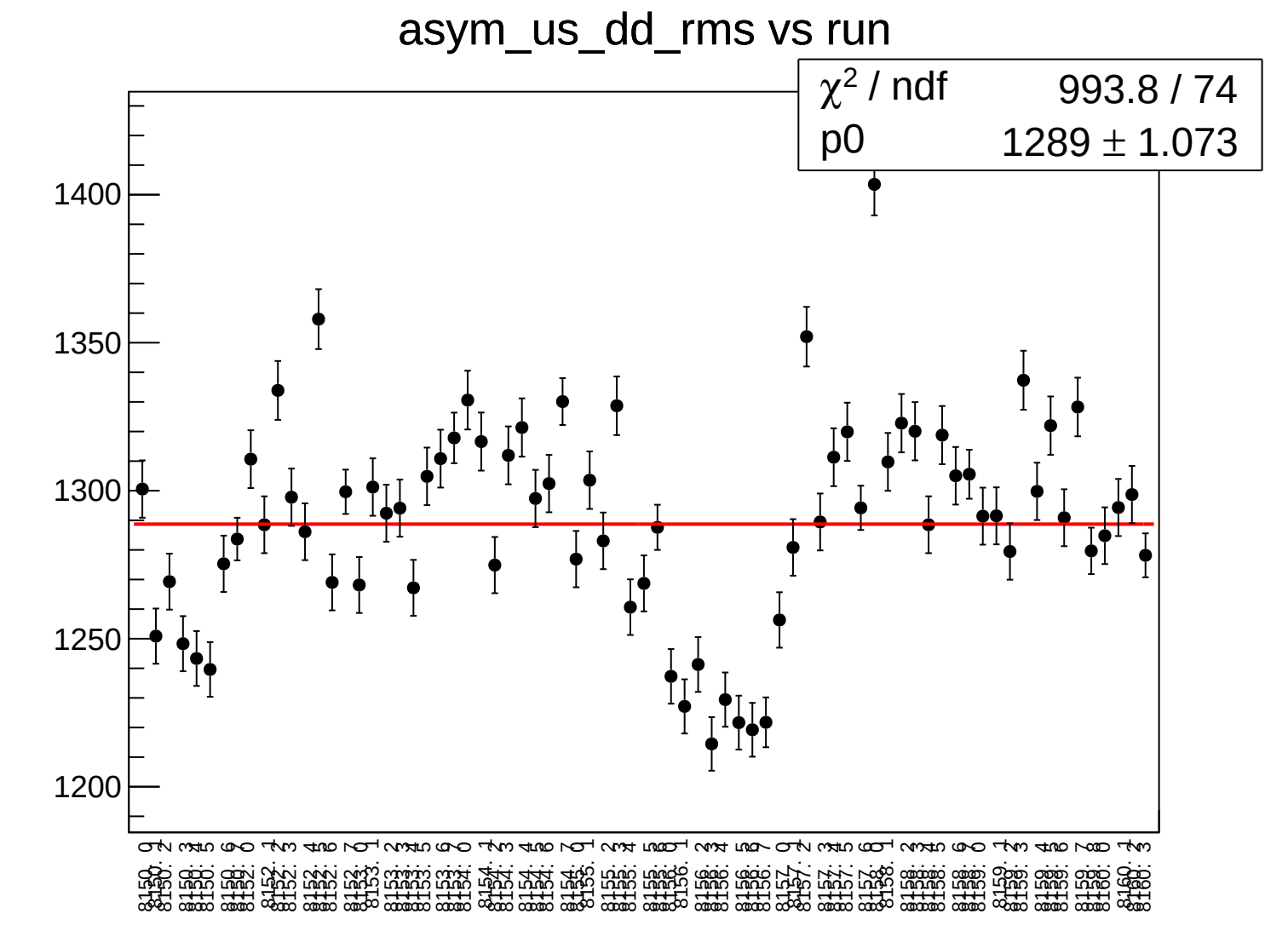

asym_us_dd_correction_mean vs run
χ² / ndf 101.4 / 74
p0 −1063 ± 1221
40000
20000
0
−20000
−40000
pull
Entries 75
Mean −854
Std Dev 903.9
3
2
1
0
−1
−2
−3

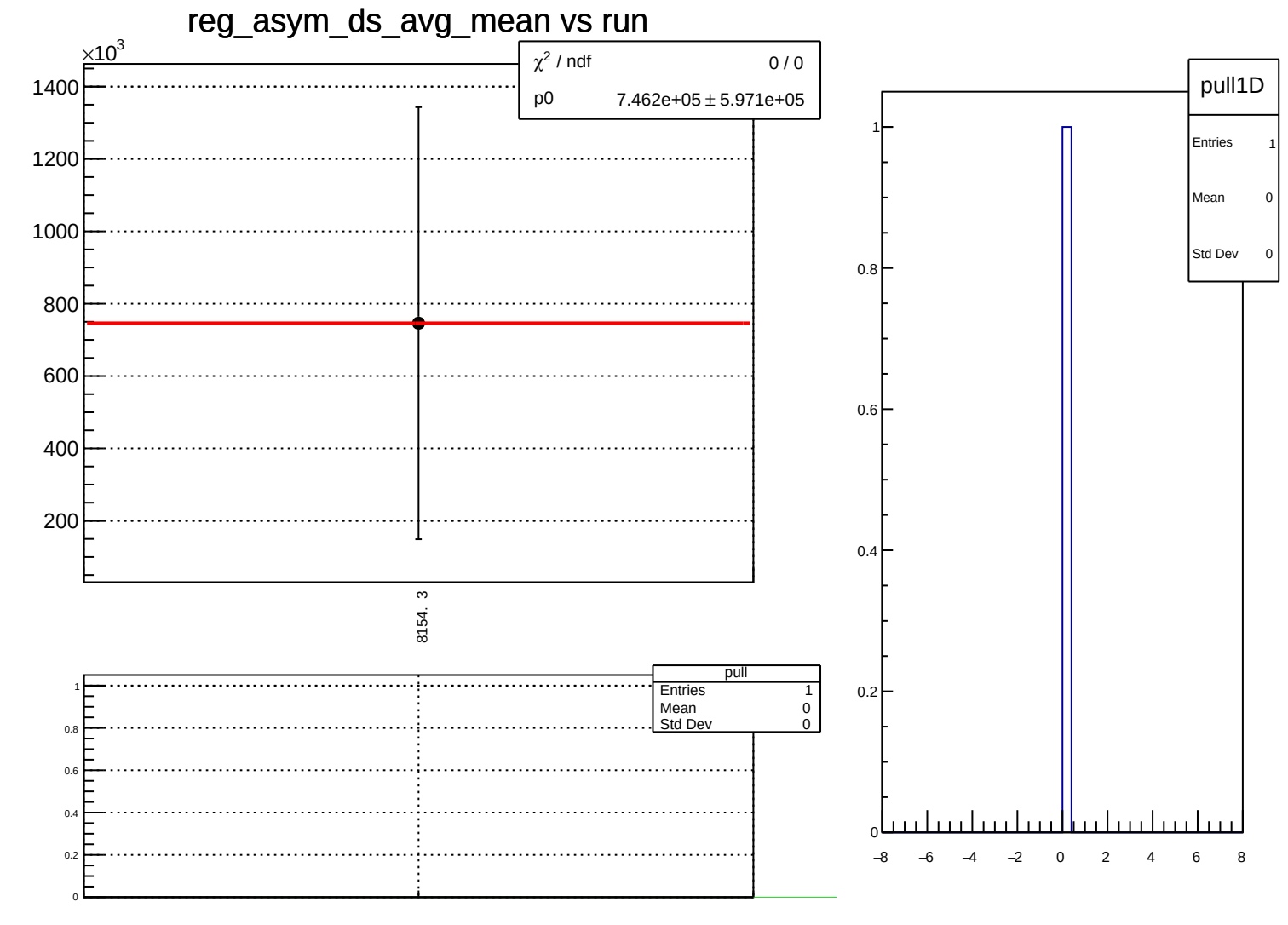

pull1D
Entries 75
Mean −0.001888
Std Dev 1.163
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

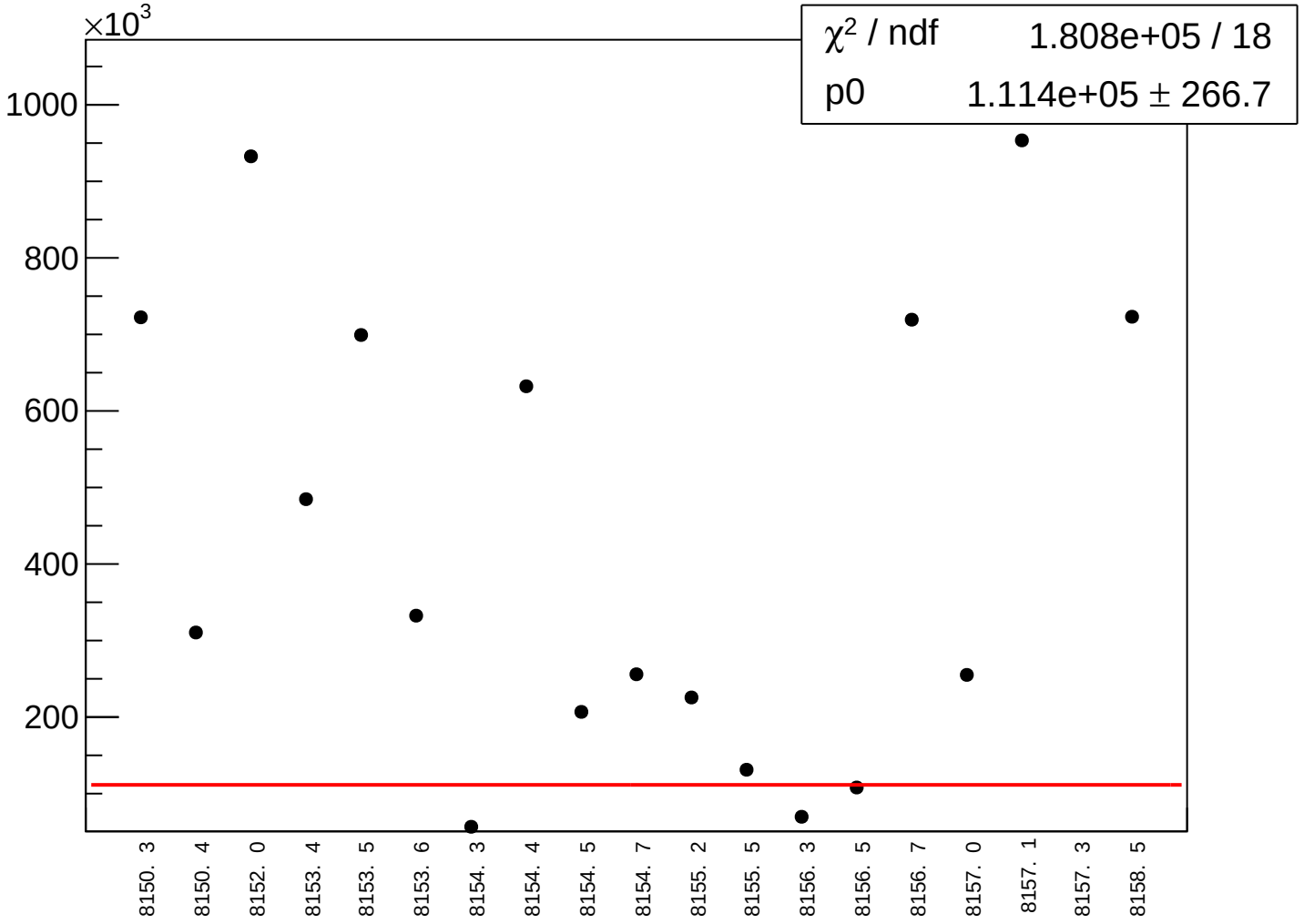

asym_us_dd_correction_rms vs run
χ² / ndf 2353 / 74
p0 1037 ± 0.8635
1200
1150
1100
1050
1000
950

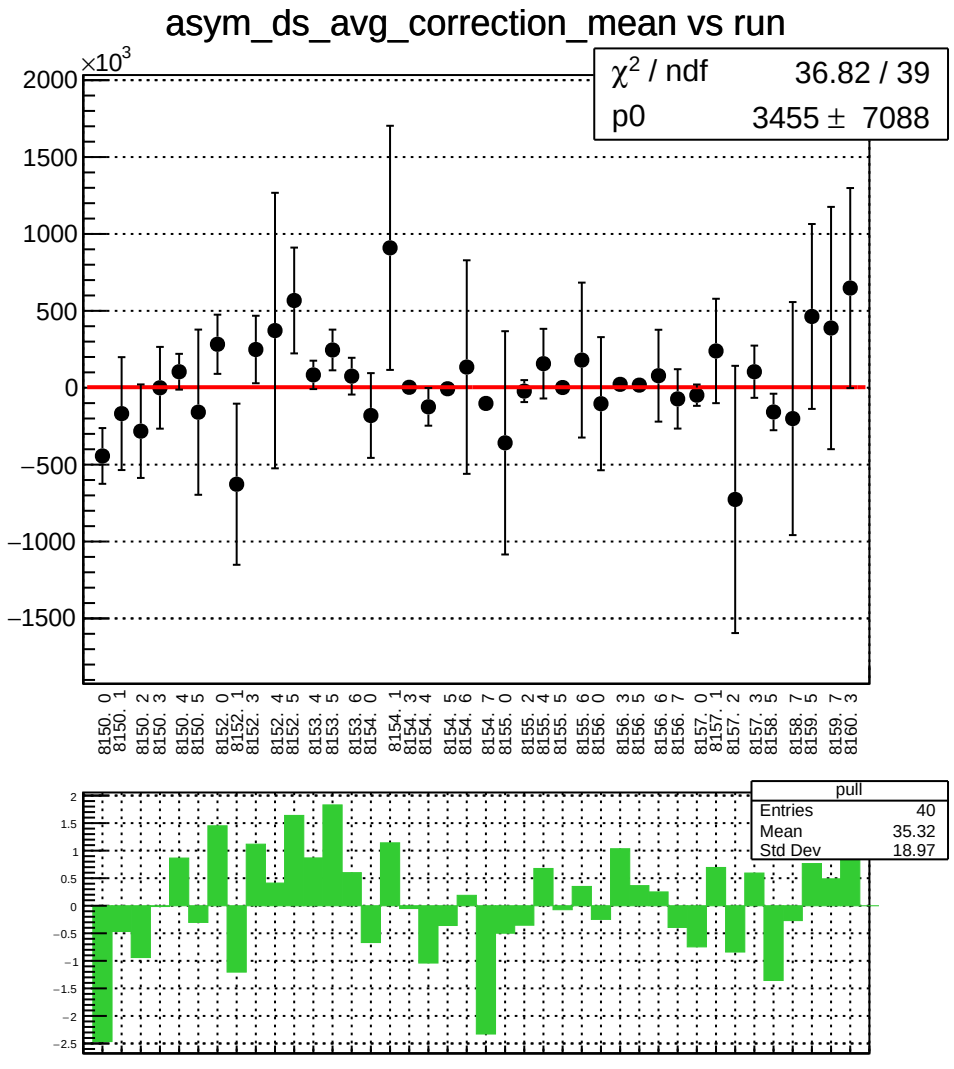

asym_us_dd_mean vs run
χ² / ndf 74.28 / 74
p0 2781 ± 1517
40000
20000
0
−20000
−40000
−60000
pull
Entries 75
Mean −3397
Std Dev 3443
2
1
0
−1
−2
−3

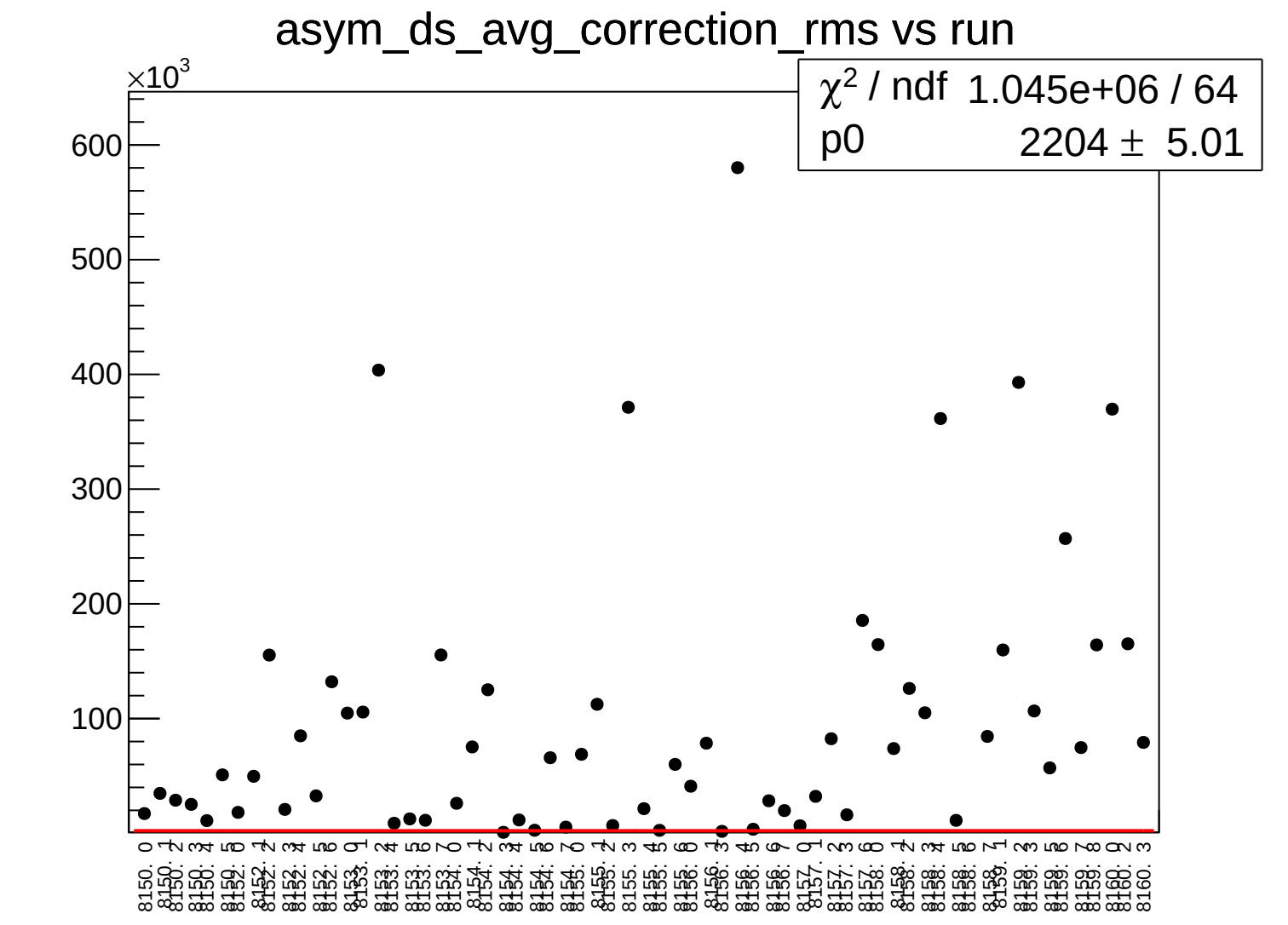

pull1D
Entries 75
Mean 0.0006521
Std Dev 0.9952
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

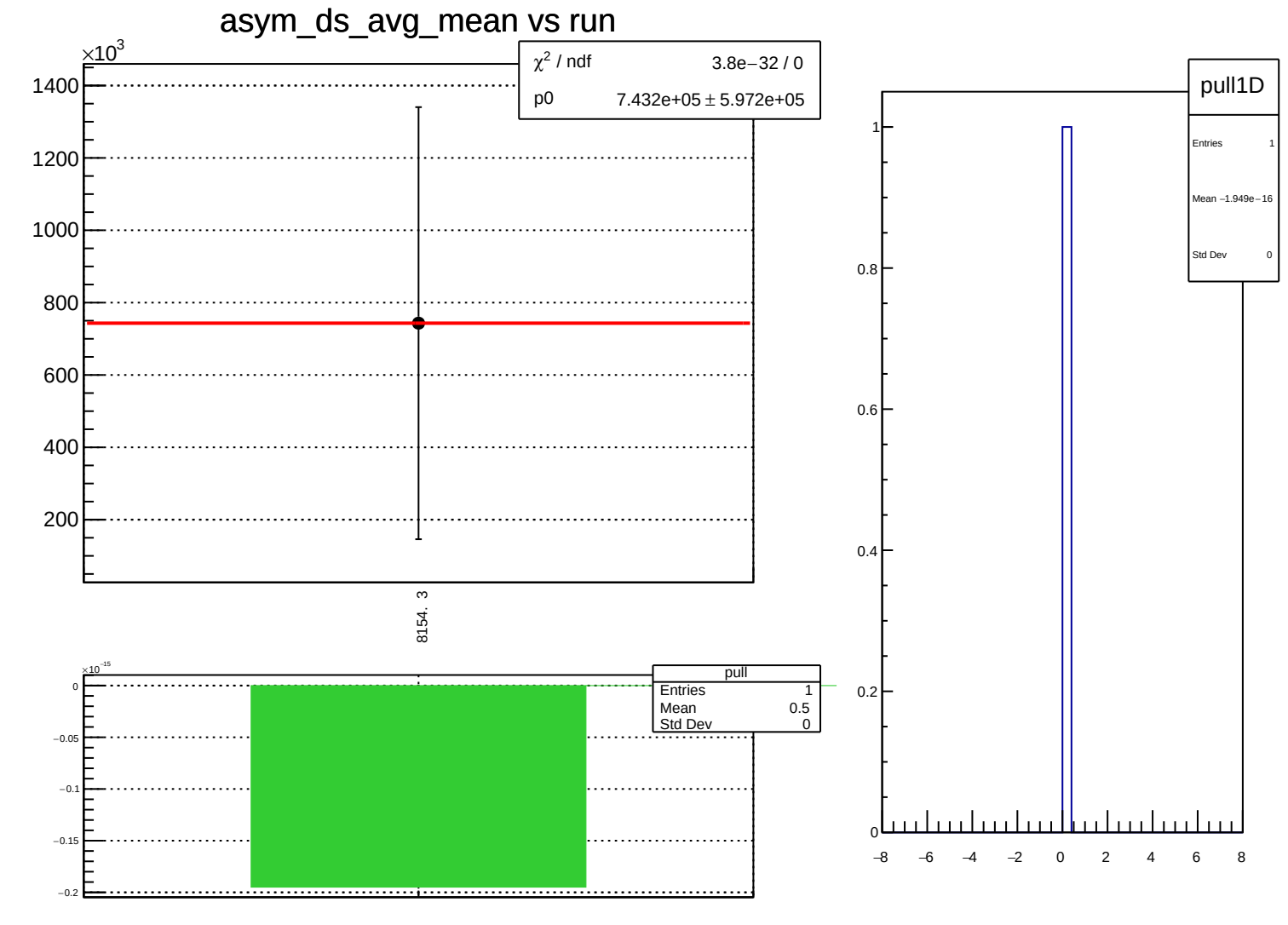

asym_us_dd_rms vs run
χ^2 / ndf 993.8 / 74
p0 1289 ± 1.073
1400
1350
1300
1250
1200

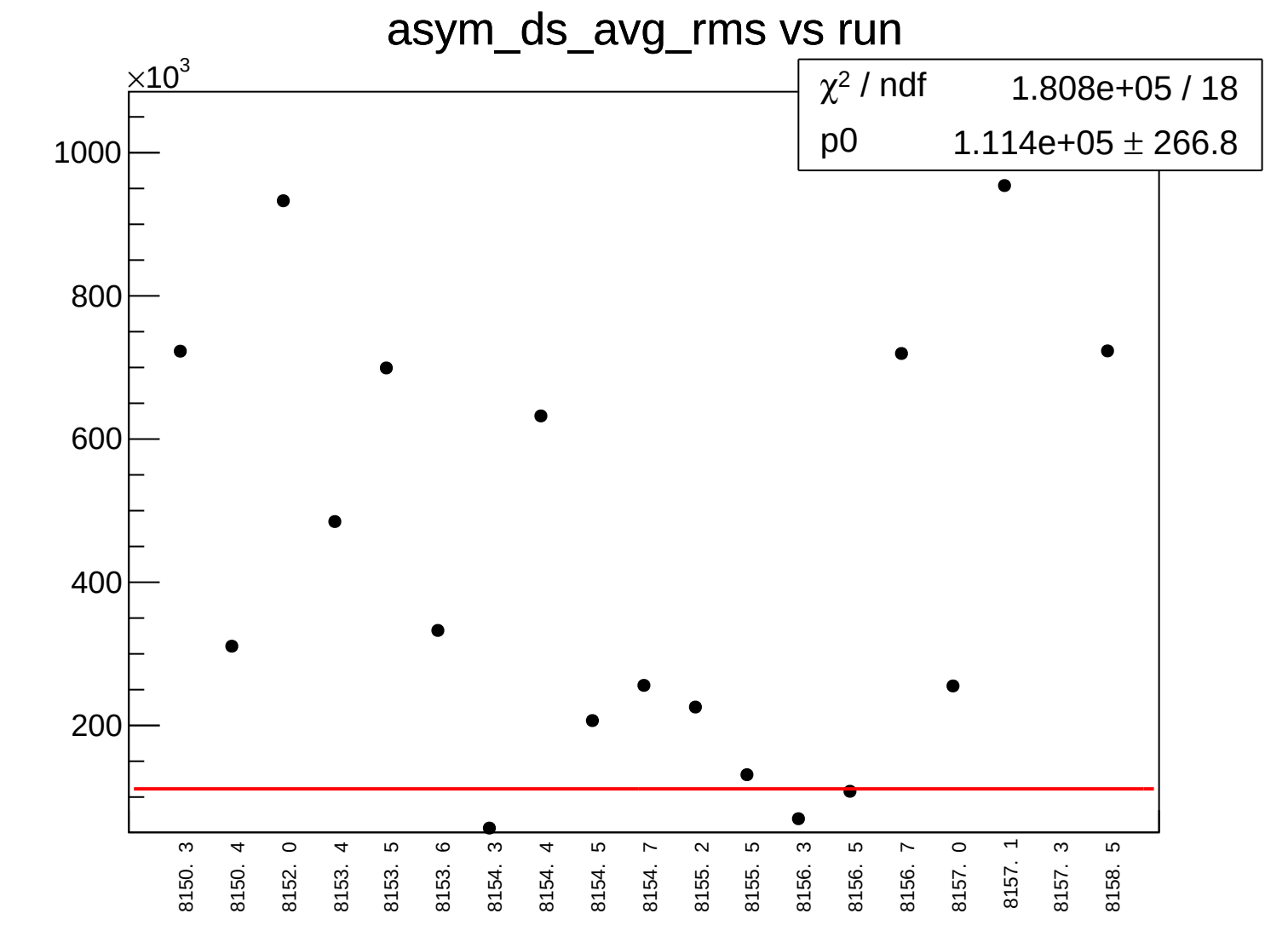

reg_asym_ds_avg_mean vs run
×10^3
χ² / ndf 0 / 0
p0 7.462e+05 ± 5.971e+05
1400
1200
1000
800
600
400
200
8154. 3
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

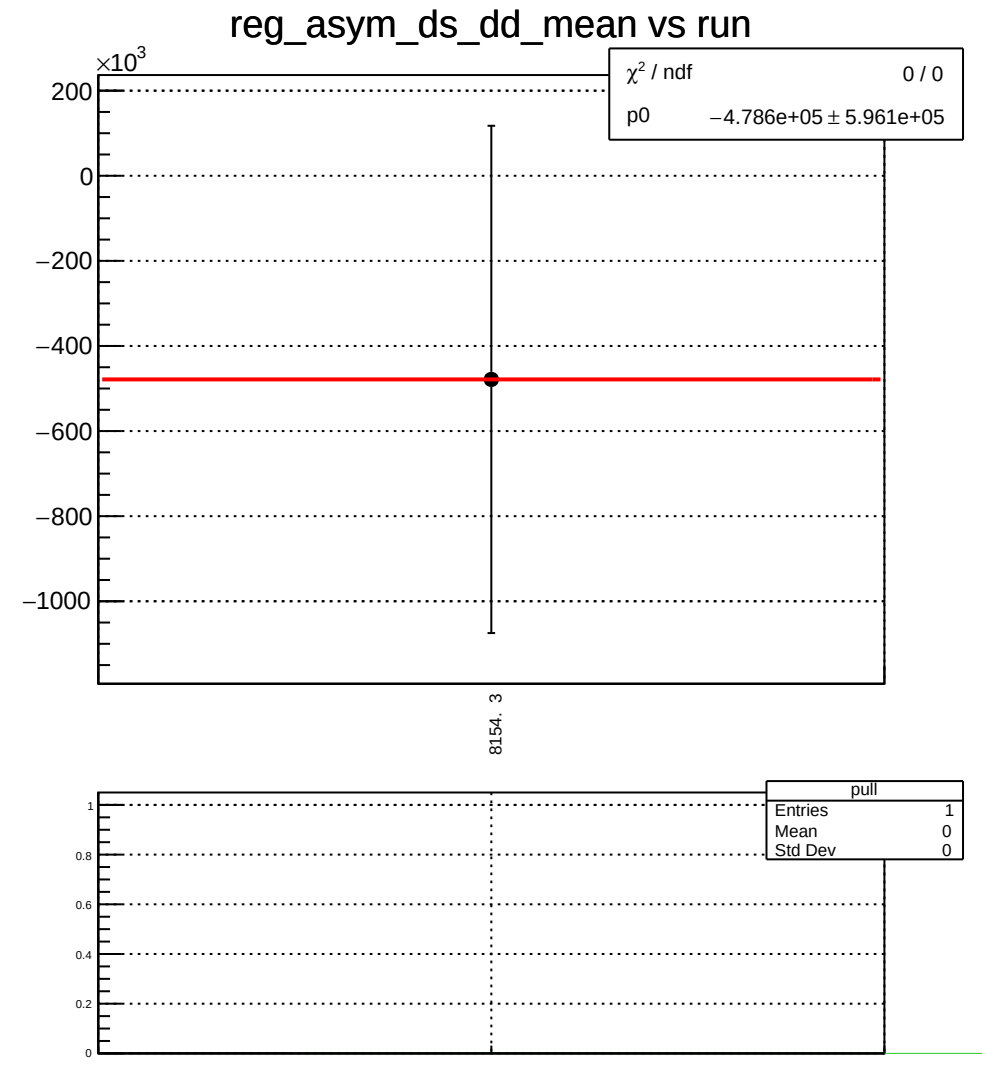

reg_asym_ds_avg_rms vs run
×10^3
χ² / ndf 1.808e+05 / 18
p0 1.114e+05 ± 266.7
1000
800
600
400
200
8150. 3
8150. 4
8152. 0
8153. 4
8153. 5
8153. 6
8154. 3
8154. 4
8154. 5
8154. 7
8155. 2
8155. 5
8156. 3
8156. 5
8156. 7
8157. 0
8157. 1
8157. 3
8158. 5

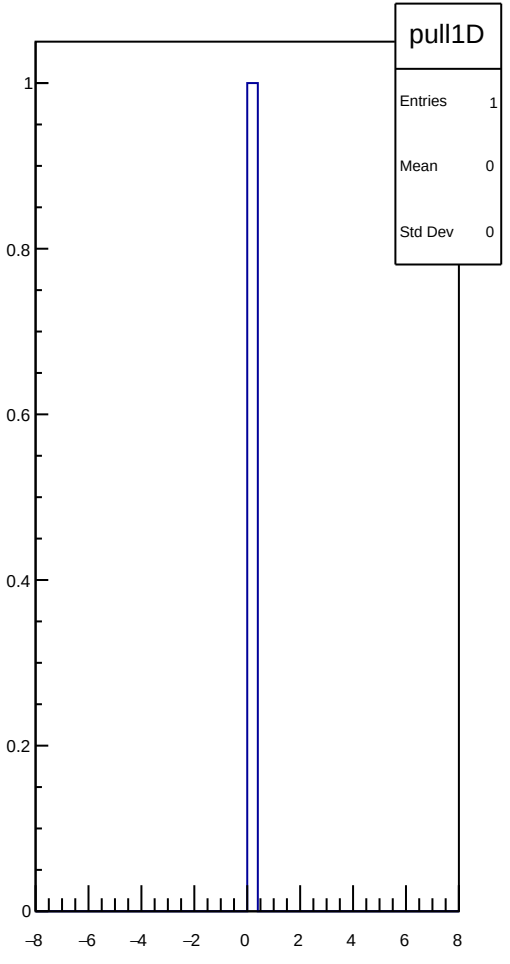

asym_ds_avg_correction_mean vs run
χ² / ndf 36.82 / 39
p0 3455 ± 7088
×10³
2000
1500
1000
500
0
−500
−1000
−1500
8150. 0
8150. 1
8150. 2
8150. 3
8150. 4
8150. 5
8152. 0
8152. 1
8152. 3
8152. 4
8152. 5
8153. 4
8153. 5
8153. 6
8154. 0
8154. 1
8154. 3
8154. 4
8154. 5
8154. 6
8154. 7
8155. 0
8155. 2
8155. 4
8155. 5
8155. 6
8156. 0
8156. 3
8156. 5
8156. 6
8156. 7
8157. 0
8157. 1
8157. 2
8157. 3
8158. 5
8158. 7
8159. 5
8159. 7
8160. 3
pull
Entries 40
Mean 35.32
Std Dev 18.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 40
Mean 0.04271
Std Dev 0.9585
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

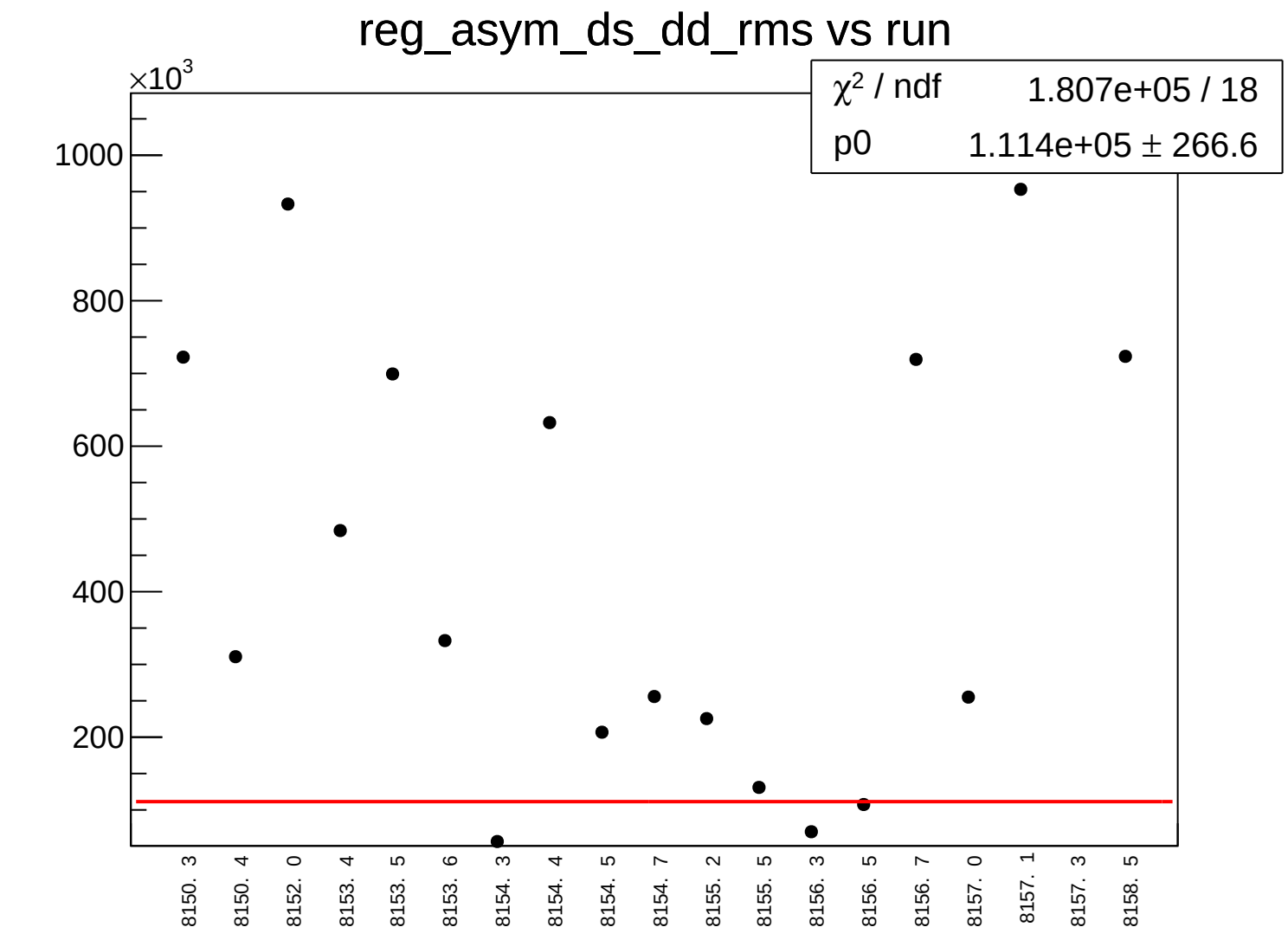

asym_ds_avg_correction_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 1.045e+06 / 64
p0 2204 ± 5.01

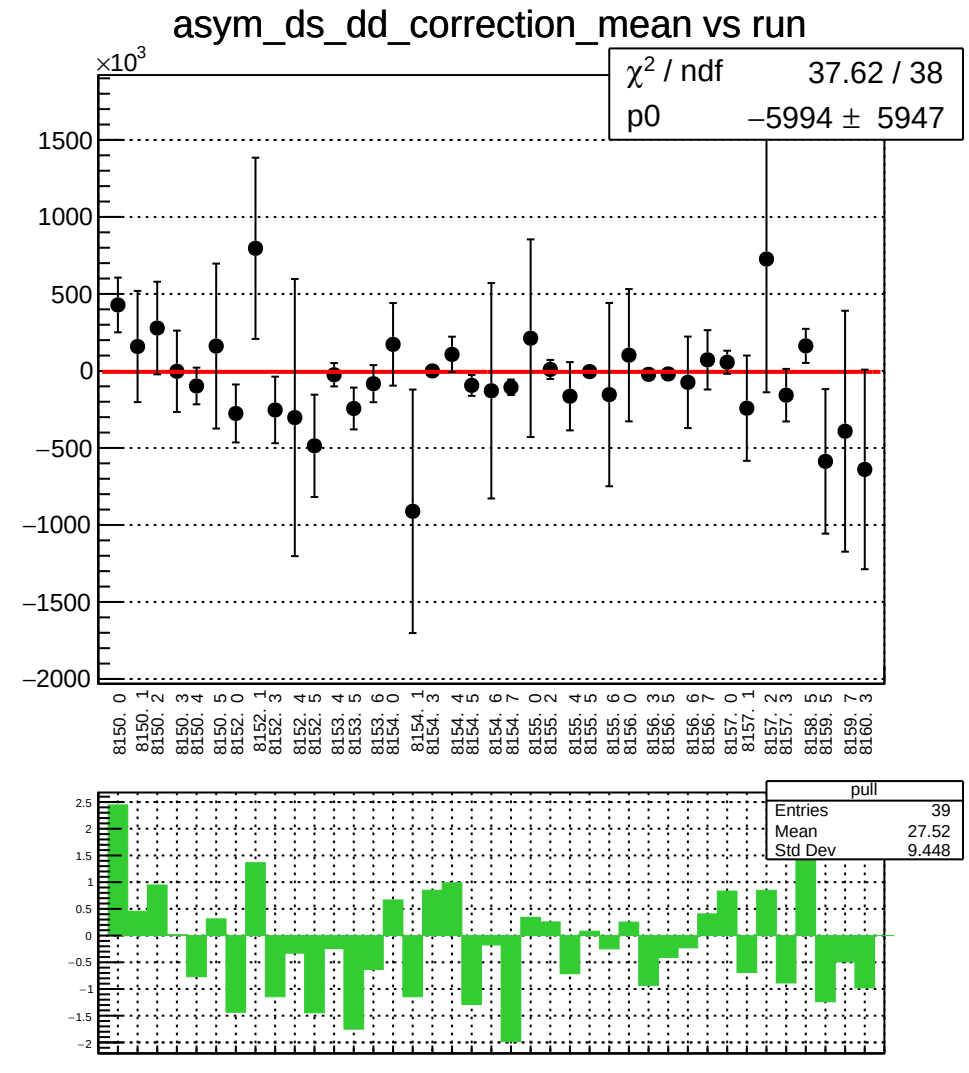

asym_ds_avg_mean vs run
×10^3
1400
1200
1000
800
600
400
200
χ² / ndf 3.8e−32 / 0
p0 7.432e+05 ± 5.972e+05
8154. 3
×10^-15
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.949e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

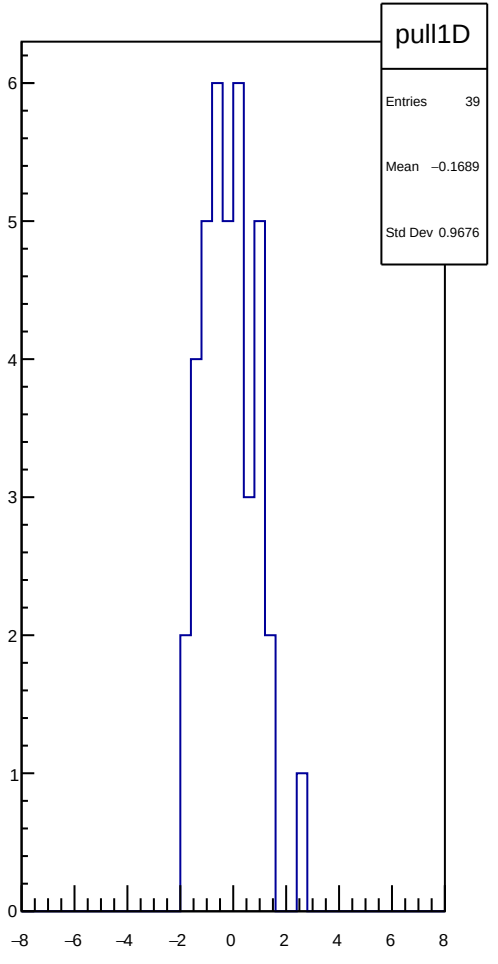

asym_ds_avg_rms vs run
×10^3
χ² / ndf 1.808e+05 / 18
p0 1.114e+05 ± 266.8
1000
800
600
400
200
8150. 3
8150. 4
8152. 0
8153. 4
8153. 5
8153. 6
8154. 3
8154. 4
8154. 5
8154. 7
8155. 2
8155. 5
8156. 3
8156. 5
8156. 7
8157. 0
8157. 1
8157. 3
8158. 5

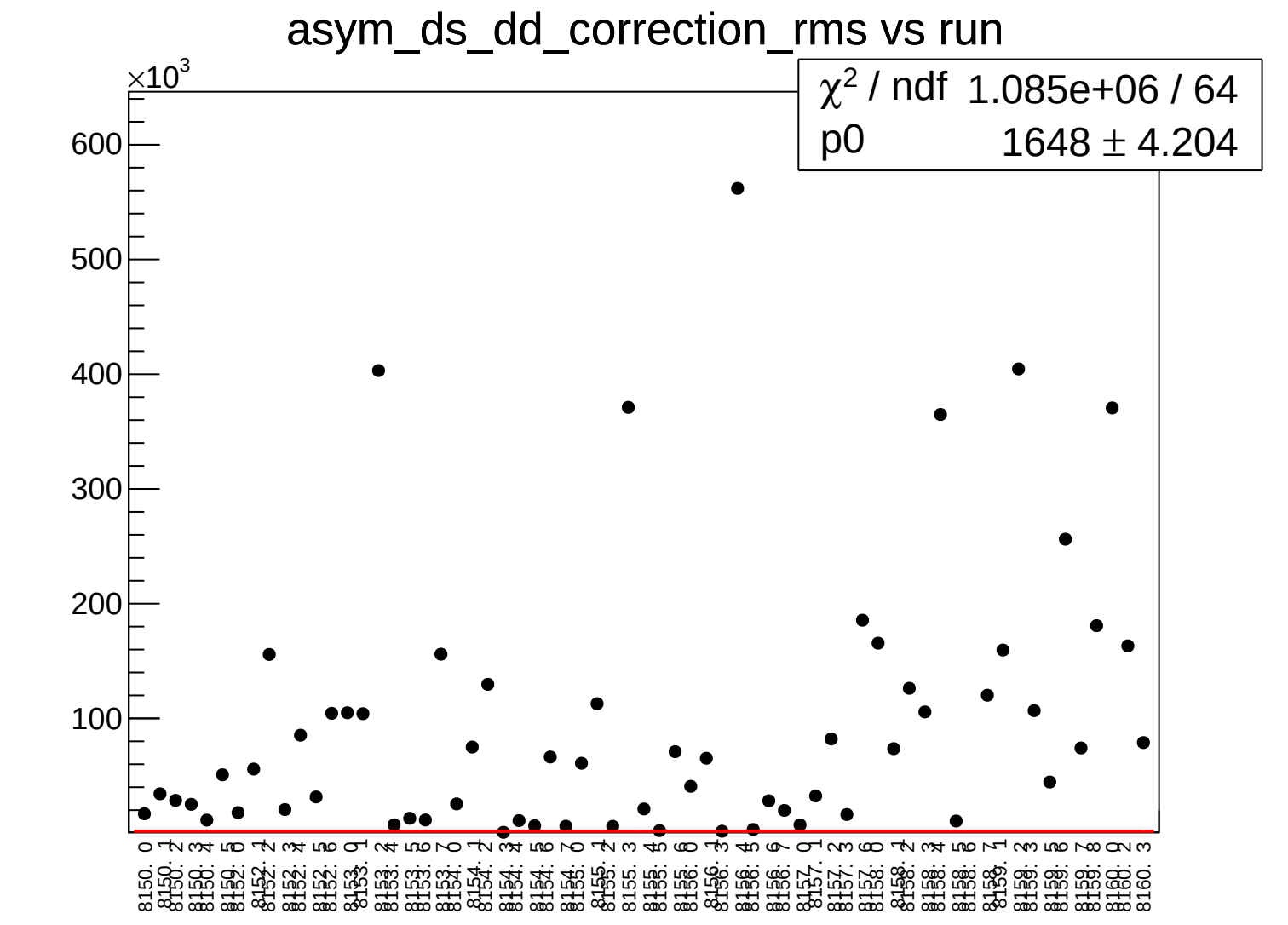

reg_asym_ds_dd_mean vs run
×10^3
χ² / ndf 0 / 0
p0 −4.786e+05 ± 5.961e+05
200
0
−200
−400
−600
−800
−1000
8154. 3
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

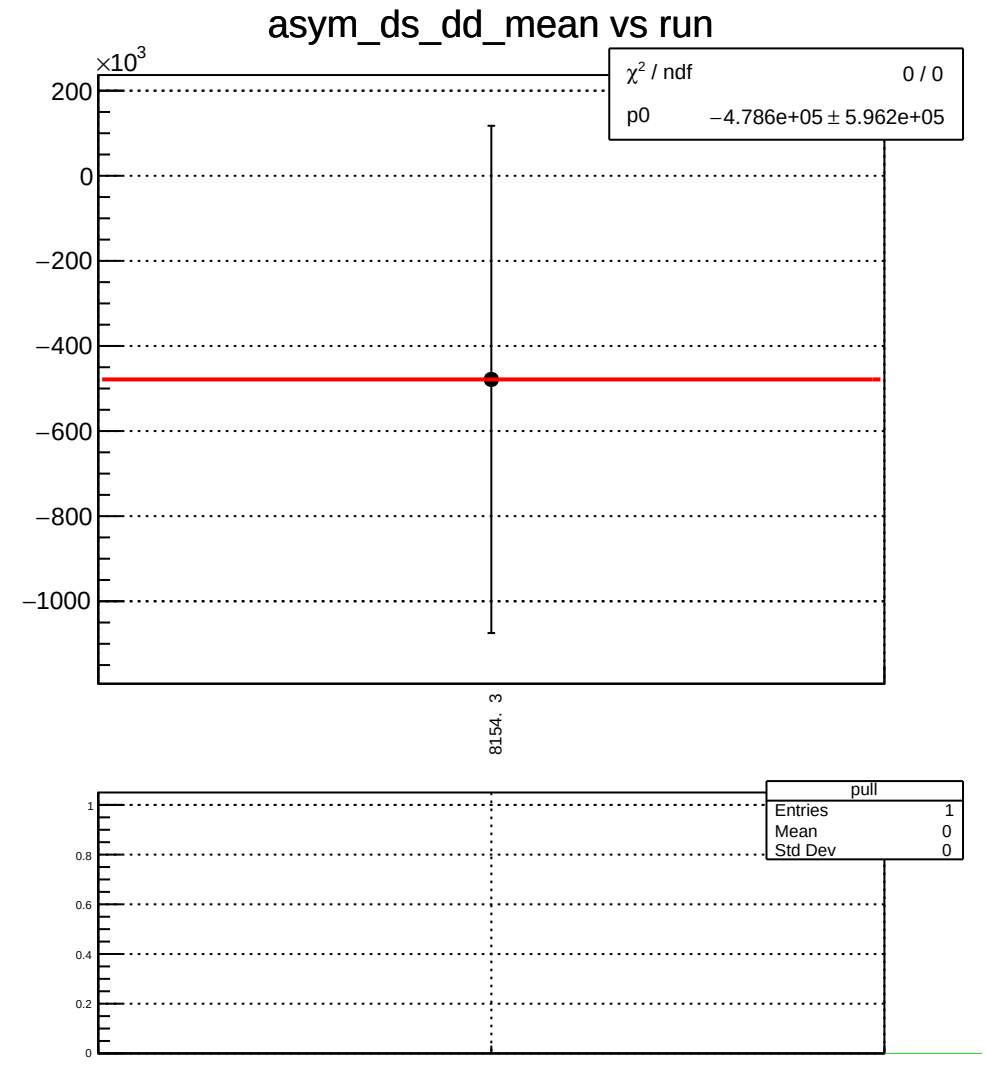

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

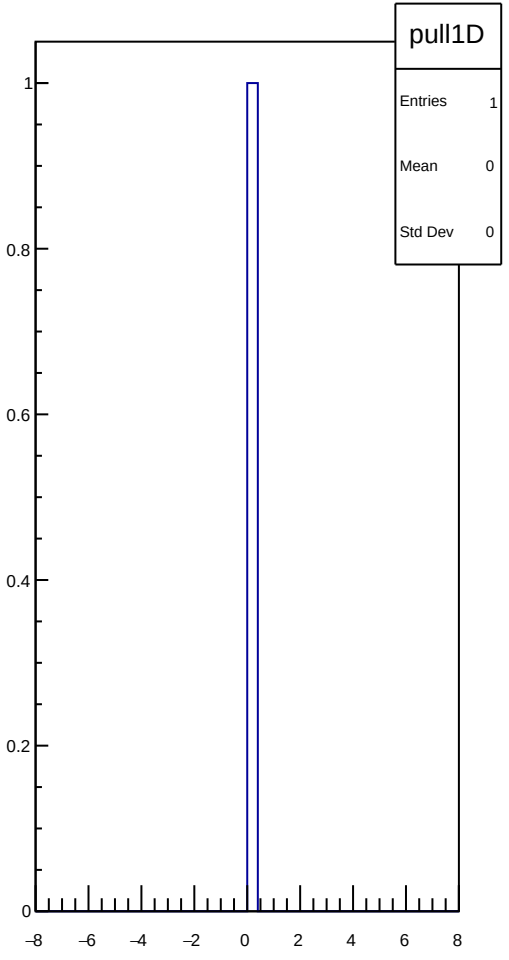

reg_asym_ds_dd_rms vs run
×10^3
χ^2 / ndf 1.807e+05 / 18
p0 1.114e+05 ± 266.6
1000
800
600
400
200
8150. 3
8150. 4
8152. 0
8153. 4
8153. 5
8153. 6
8154. 3
8154. 4
8154. 5
8154. 7
8155. 2
8155. 5
8156. 3
8156. 5
8156. 7
8157. 0
8157. 1
8157. 3
8158. 5

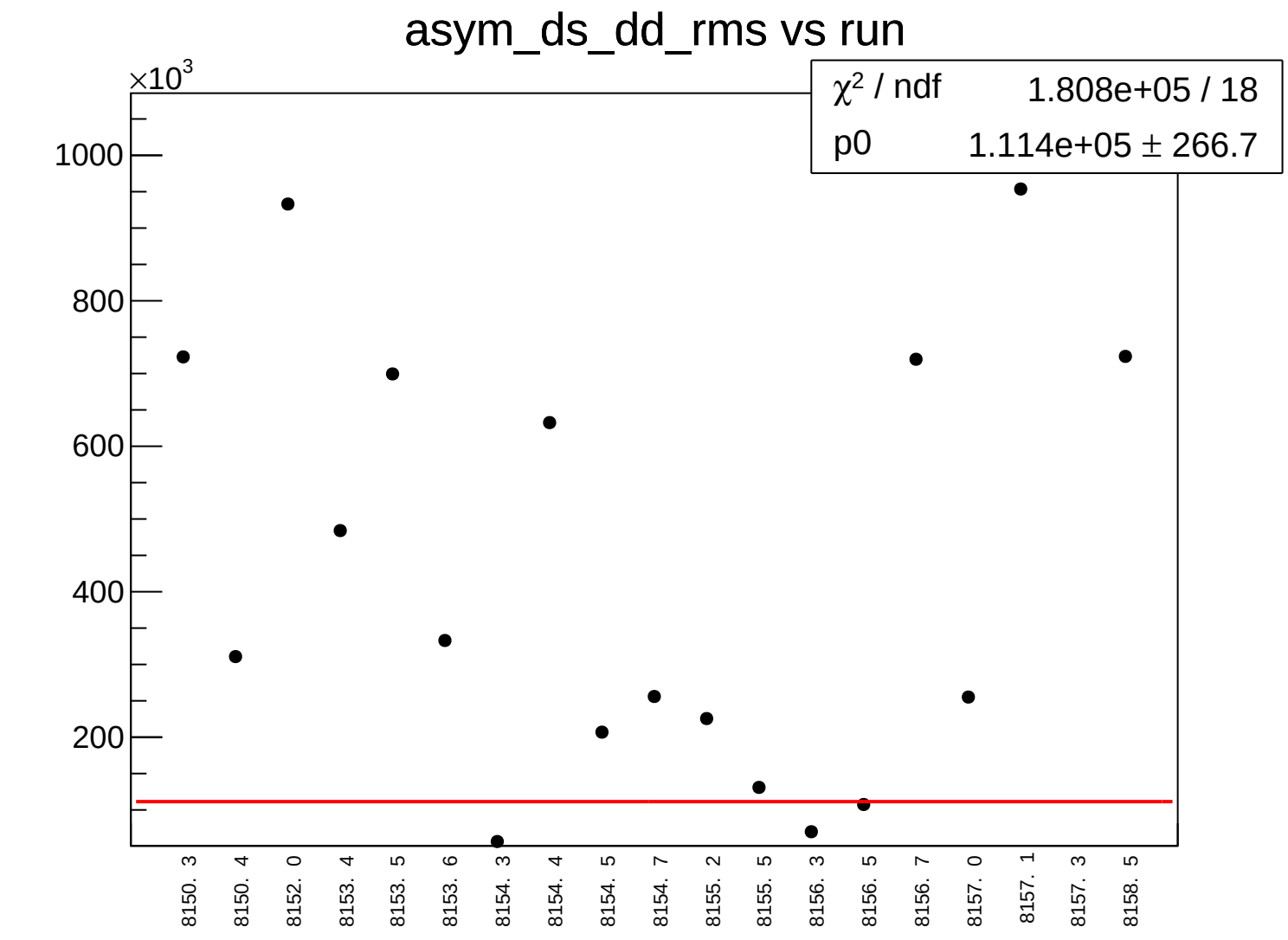

asym_ds_dd_correction_mean vs run
×10^3
χ^2 / ndf 37.62 / 38
p0 −5994 ± 5947
1500
1000
500
0
−500
−1000
−1500
−2000
8150. 0
8150. 1
8150. 2
8150. 3
8150. 4
8150. 5
8152. 0
8152. 1
8152. 3
8152. 4
8152. 5
8153. 4
8153. 5
8153. 6
8154. 0
8154. 1
8154. 3
8154. 4
8154. 5
8154. 6
8154. 7
8155. 0
8155. 2
8155. 4
8155. 5
8155. 6
8156. 0
8156. 3
8156. 5
8156. 6
8156. 7
8157. 0
8157. 1
8157. 2
8157. 3
8158. 5
8159. 5
8159. 7
8160. 3
pull
Entries 39
Mean 27.52
Std Dev 9.448
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

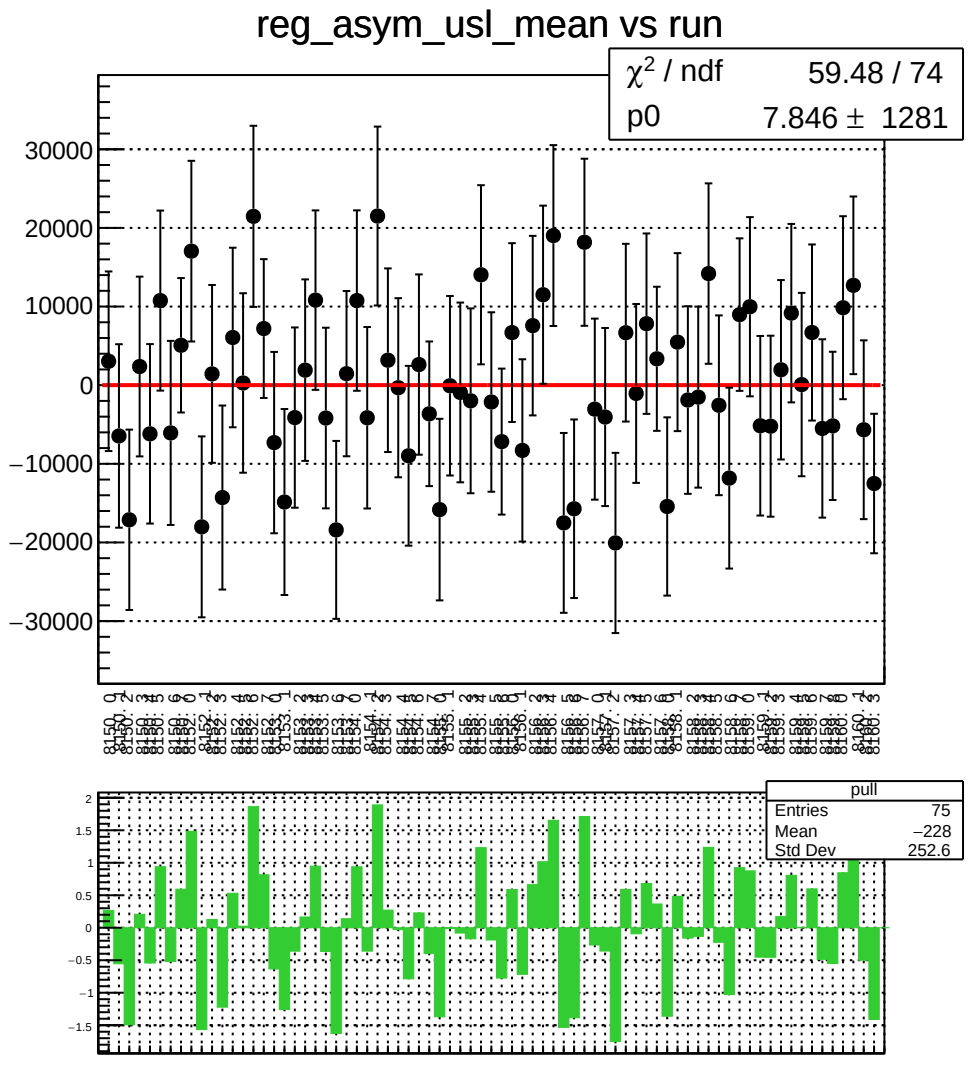

pull1D
Entries 39
Mean −0.1689
Std Dev 0.9676
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

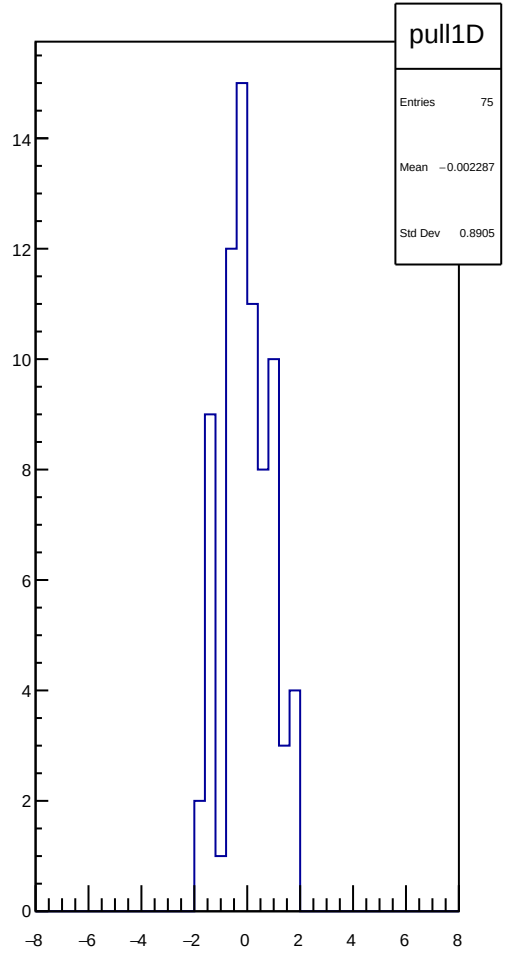

asym_ds_dd_correction_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 1.085e+06 / 64
p0 1648 ± 4.204

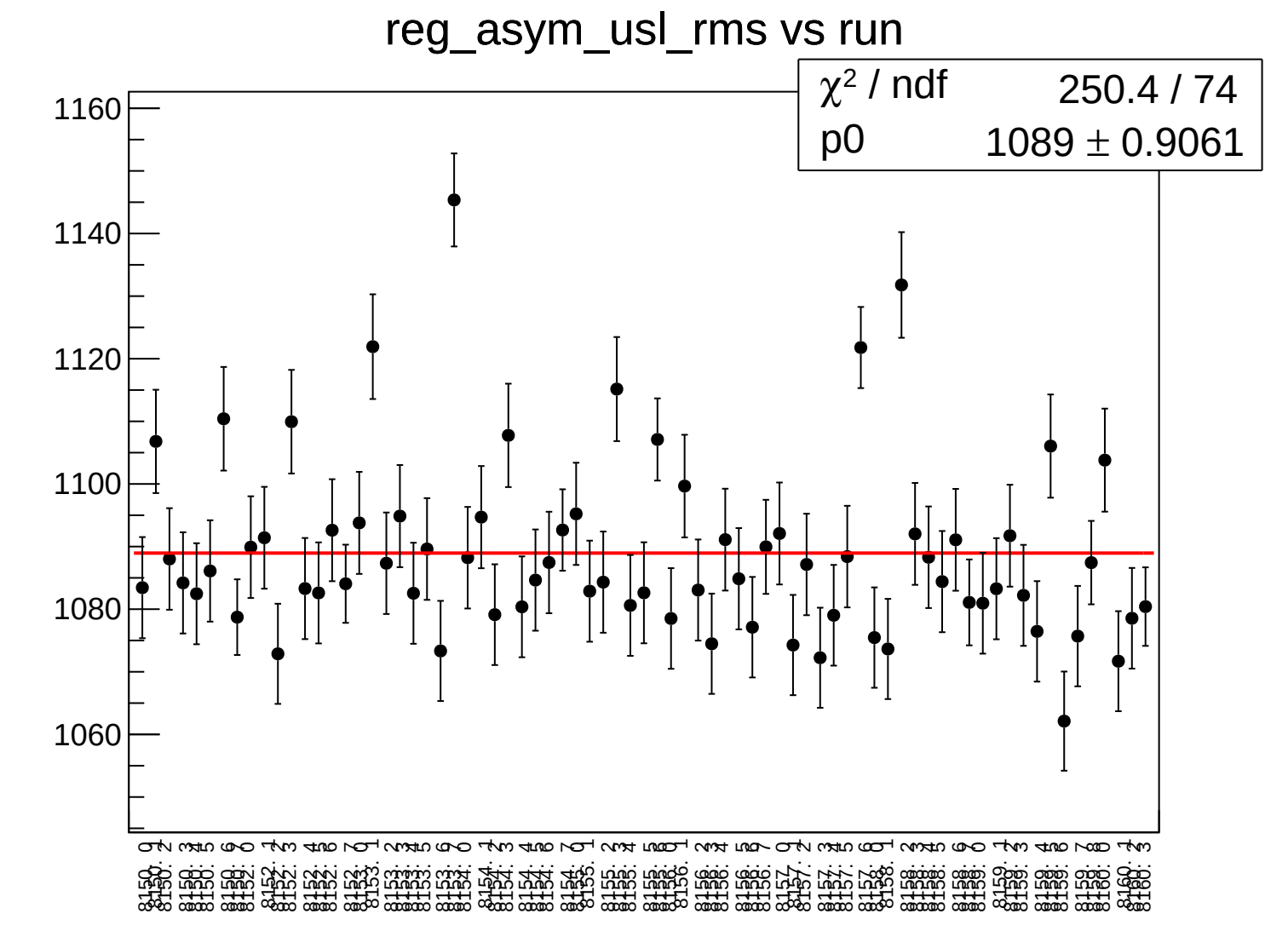

asym_ds_dd_mean vs run
×10^3
200
0
−200
−400
−600
−800
−1000
χ² / ndf 0 / 0
p0 −4.786e+05 ± 5.962e+05
8154. 3
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

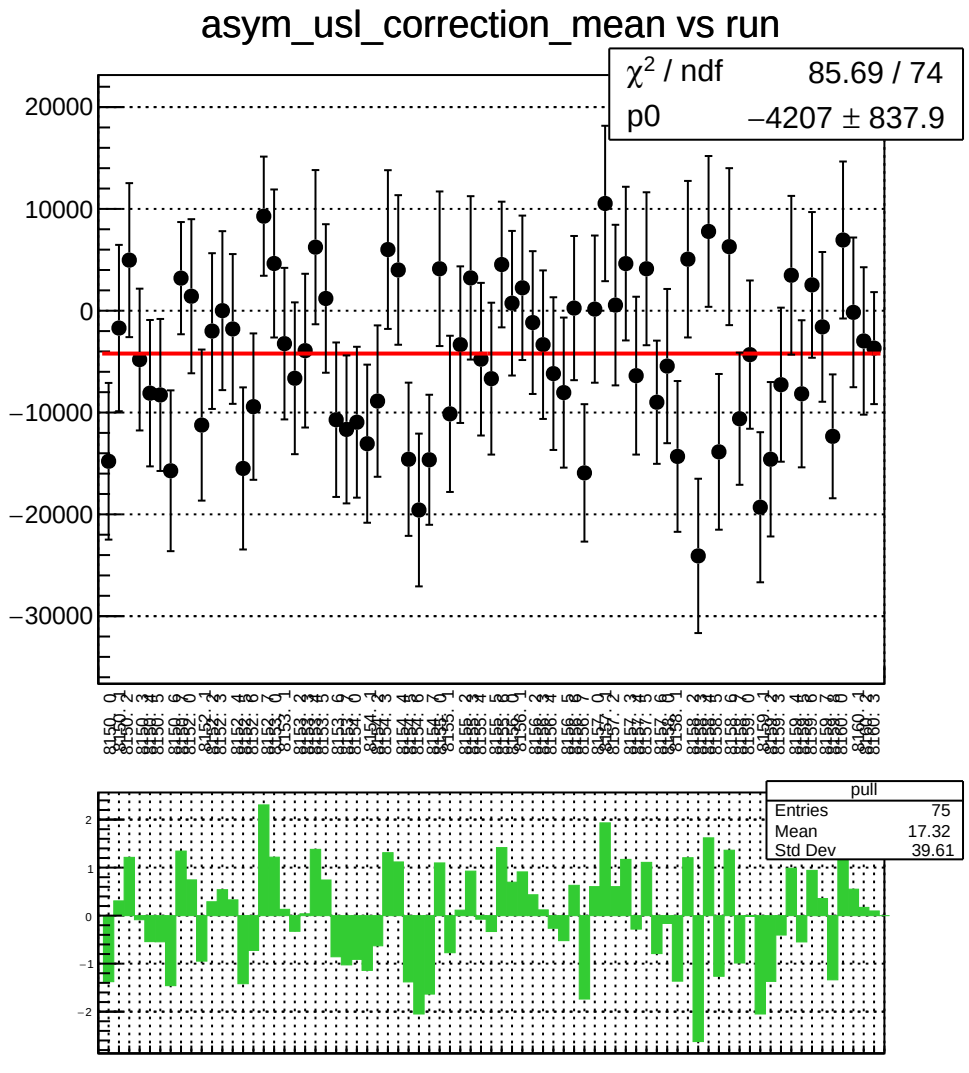

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

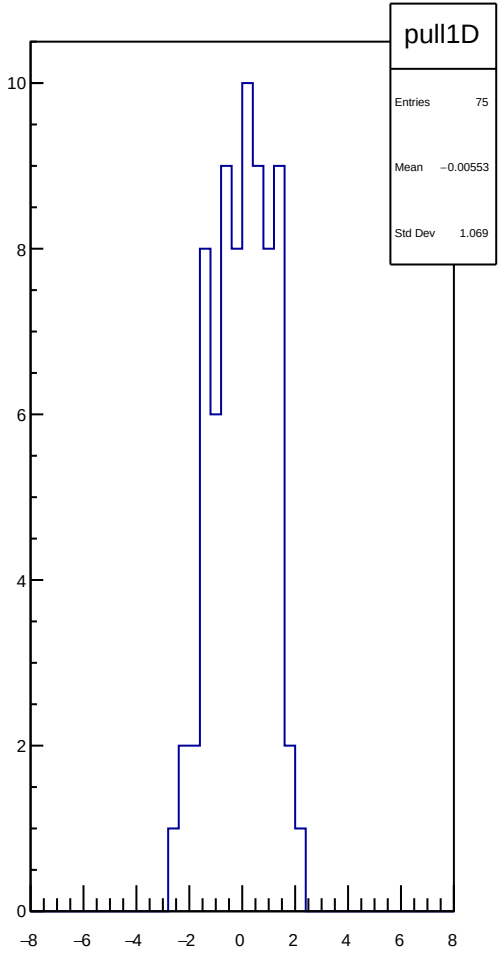

asym_ds_dd_rms vs run
×10^3
χ² / ndf 1.808e+05 / 18
p0 1.114e+05 ± 266.7
1000
800
600
400
200
8150. 3
8150. 4
8152. 0
8153. 4
8153. 5
8153. 6
8154. 3
8154. 4
8154. 5
8154. 7
8155. 2
8155. 5
8156. 3
8156. 5
8156. 7
8157. 0
8157. 1
8157. 3
8158. 5

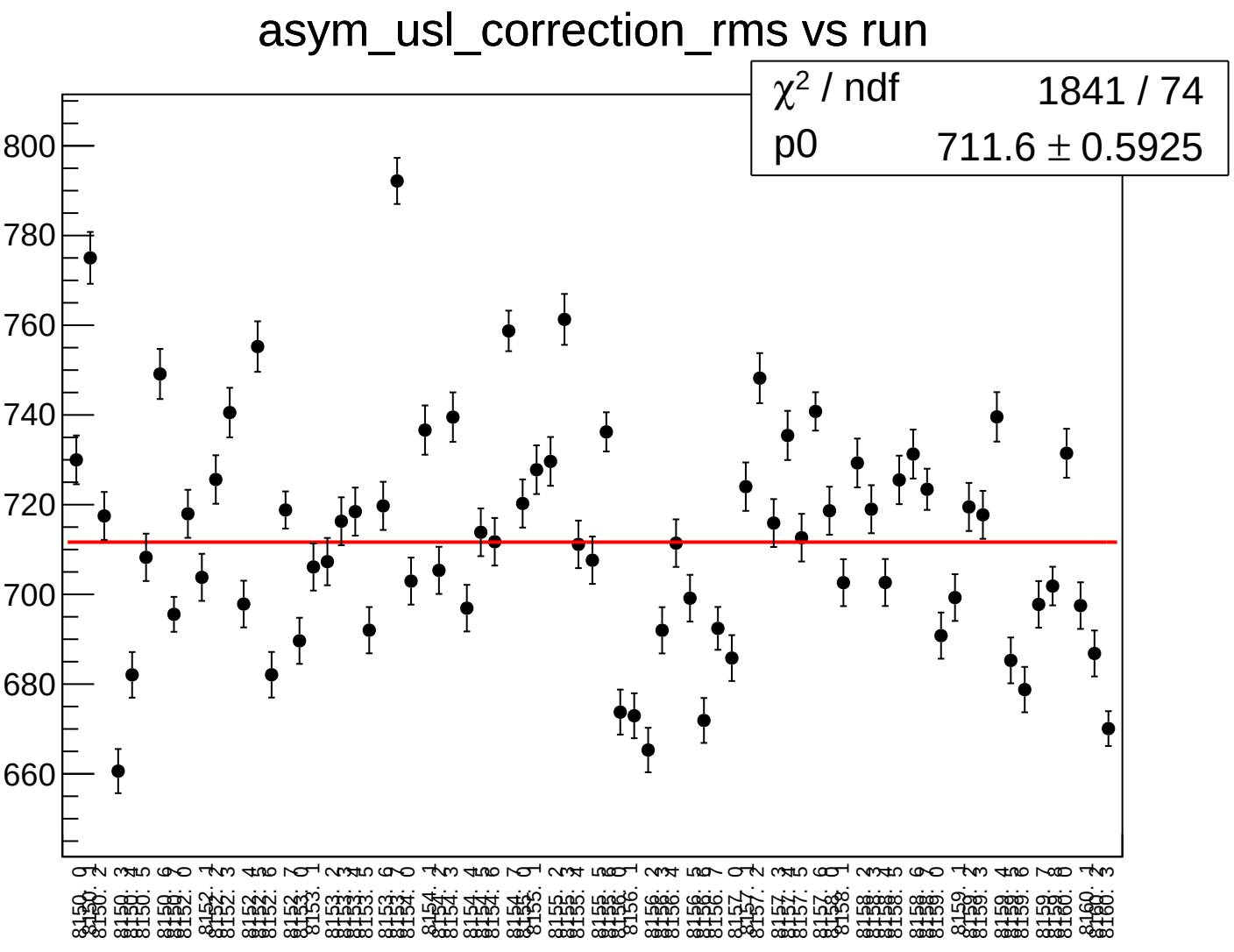

reg_asym_usl_mean vs run
χ² / ndf 59.48 / 74
p0 7.846 ± 1281
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 75
Mean −228
Std Dev 252.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

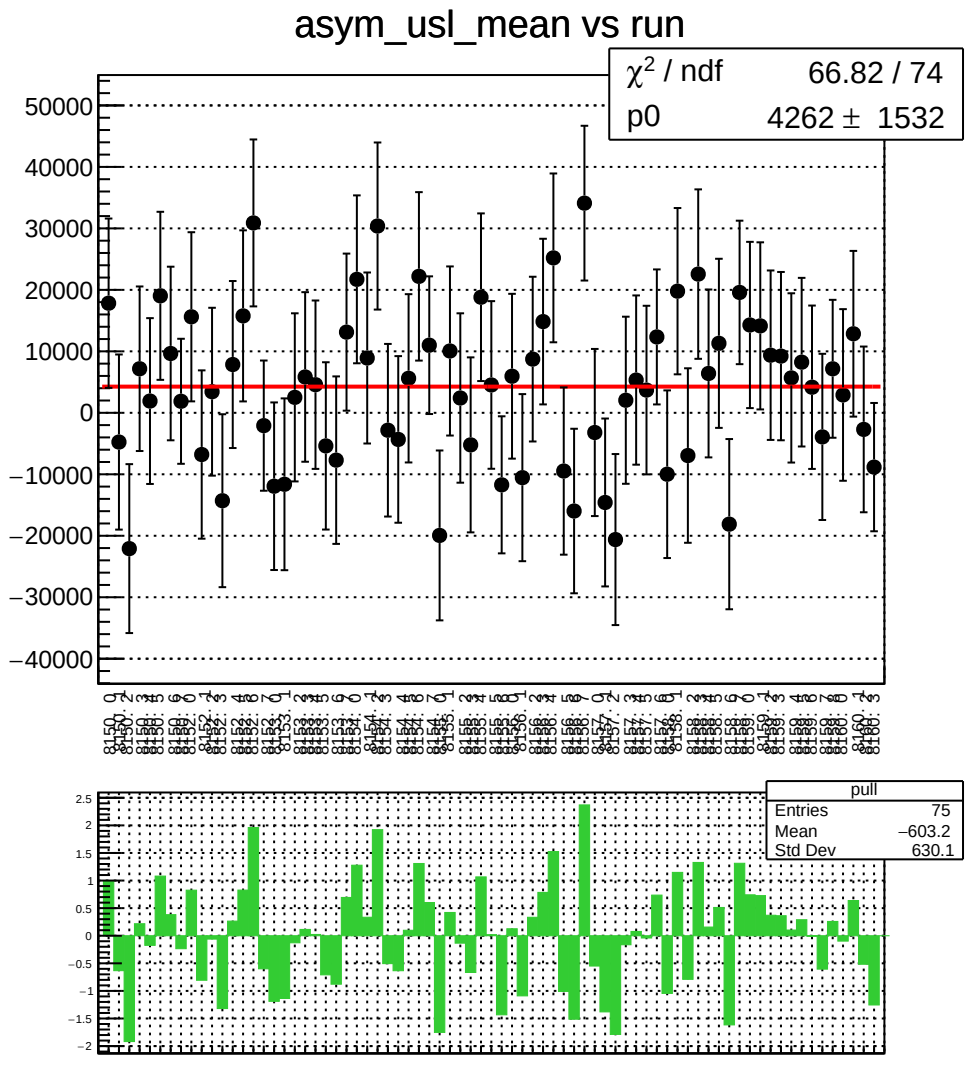

pull1D
Entries 75
Mean −0.002287
Std Dev 0.8905
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

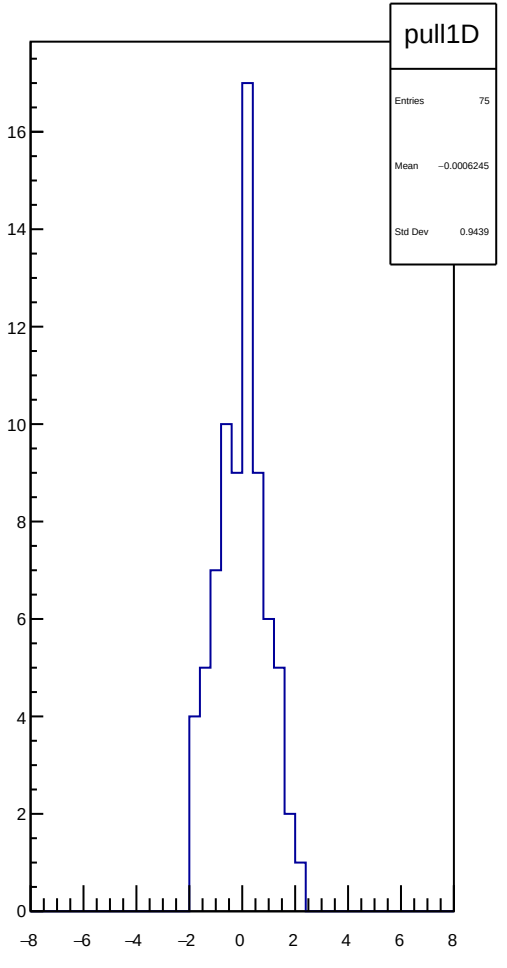

reg_asym_usl_rms vs run
χ² / ndf 250.4 / 74
p0 1089 ± 0.9061
1160
1140
1120
1100
1080
1060

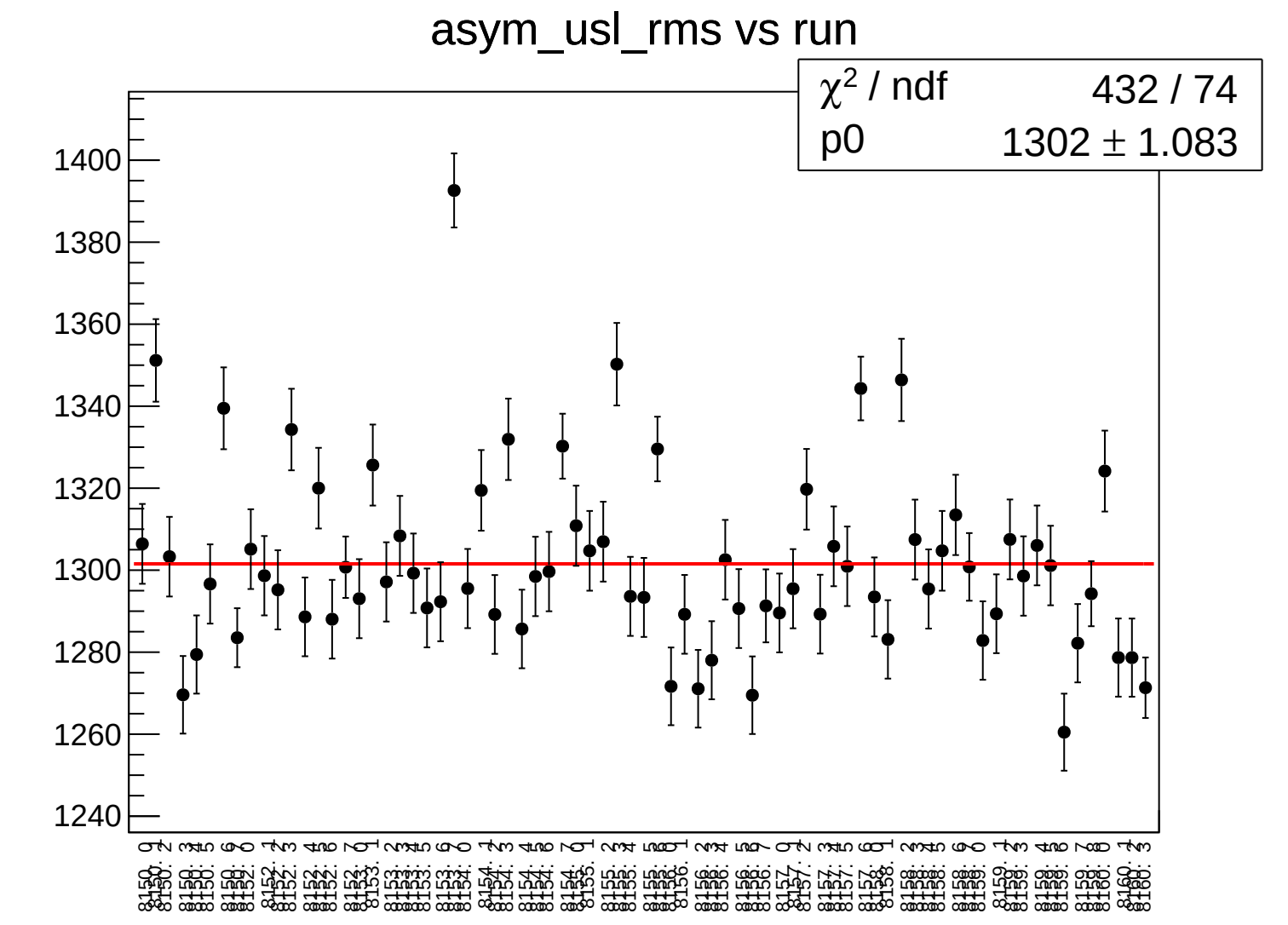

asym_usl_correction_mean vs run
χ² / ndf 85.69 / 74
p0 −4207 ± 837.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 75
Mean 17.32
Std Dev 39.61
2
1
0
−1
−2

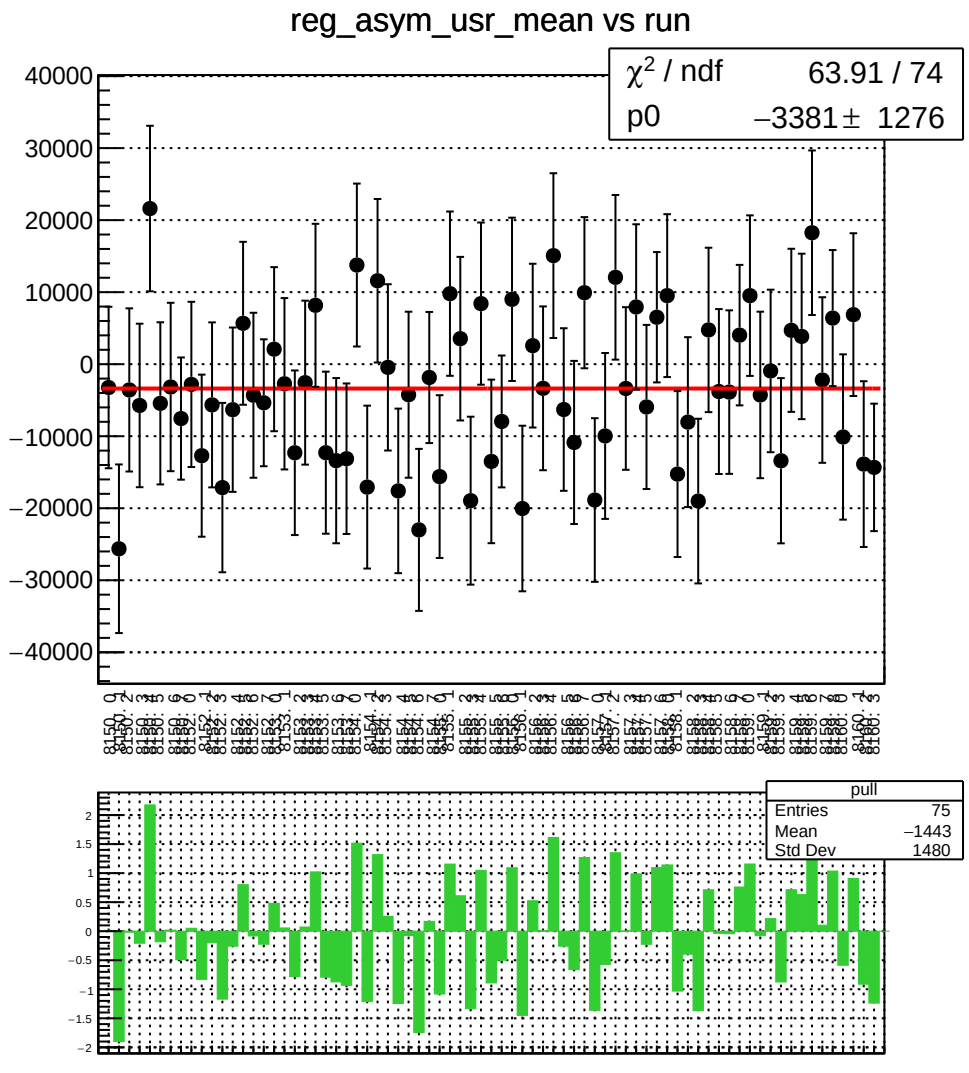

pull1D
Entries 75
Mean −0.00553
Std Dev 1.069
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

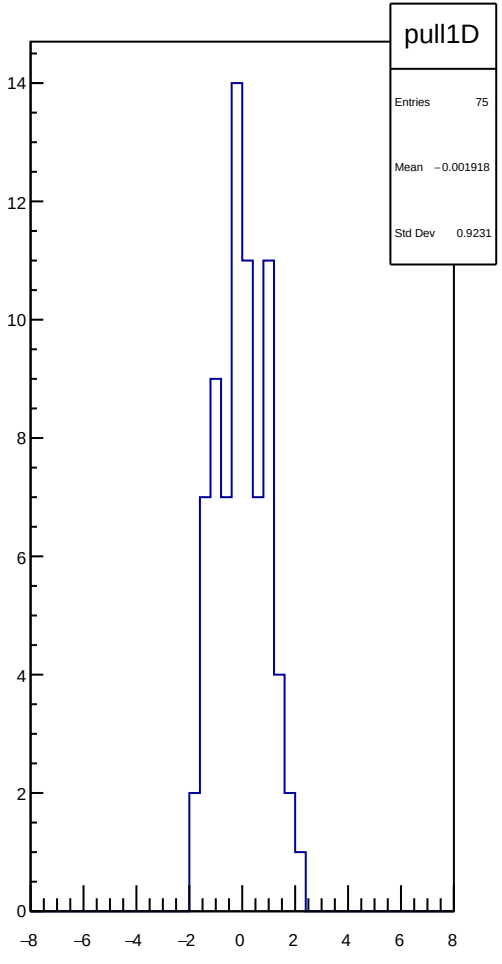

asym_usl_correction_rms vs run
χ² / ndf 1841 / 74
p0 711.6 ± 0.5925
800
780
760
740
720
700
680
660

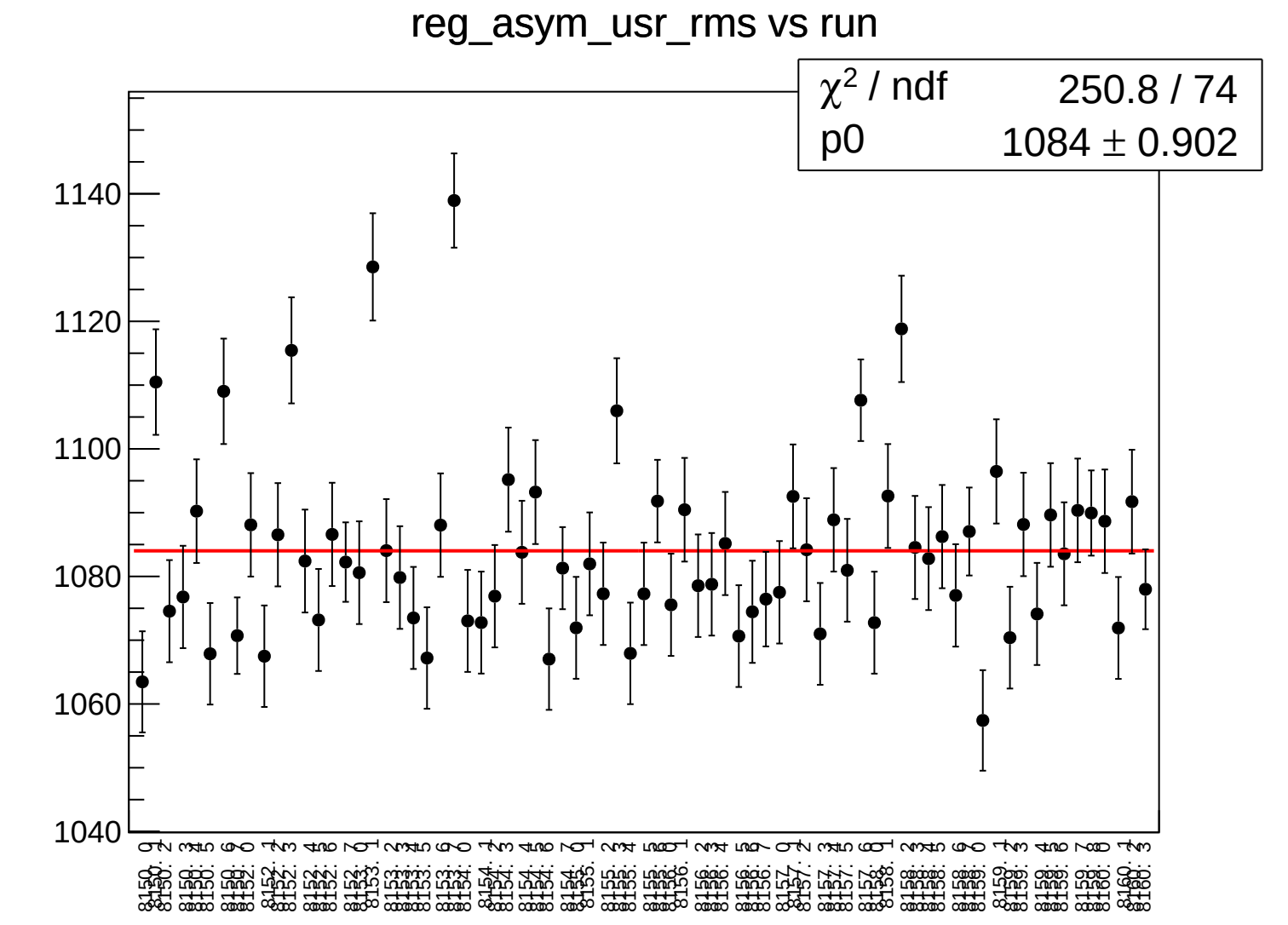

asym_usl_mean vs run
χ² / ndf 66.82 / 74
p0 4262 ± 1532
pull
Entries 75
Mean −603.2
Std Dev 630.1

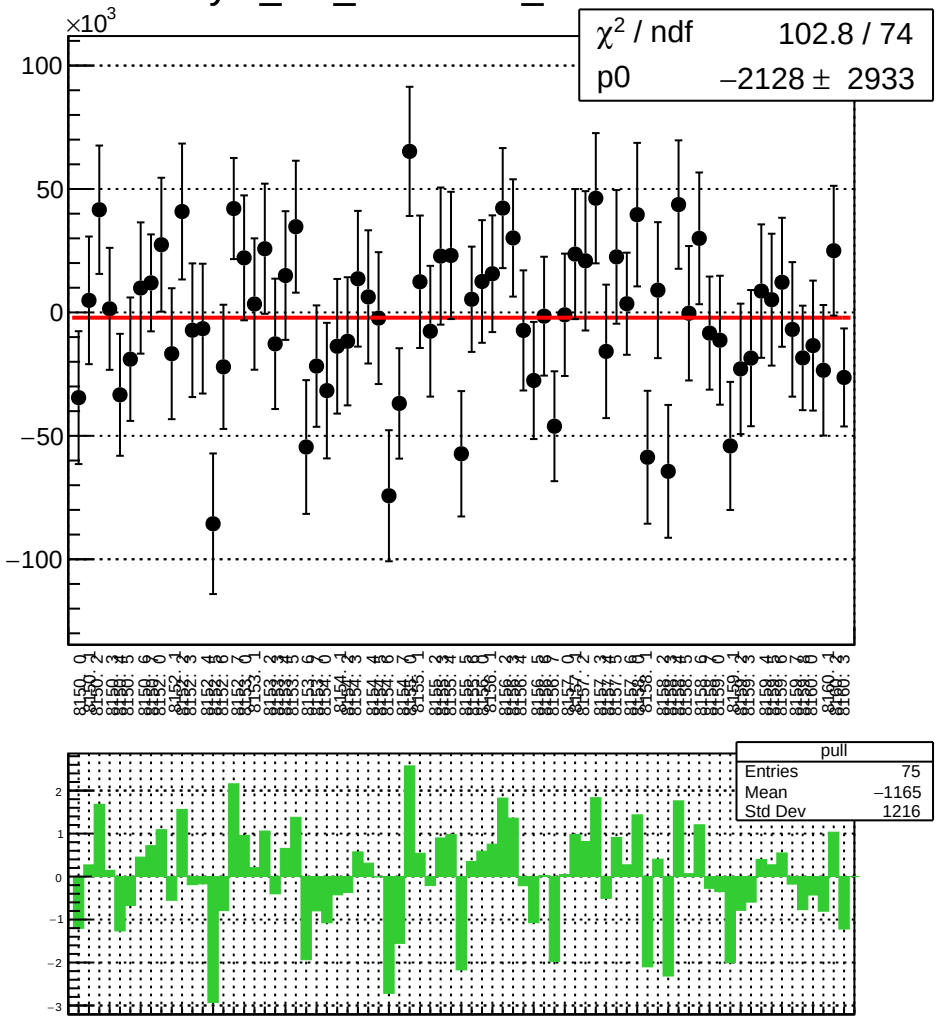

pull1D
Entries 75
Mean −0.0006245
Std Dev 0.9439

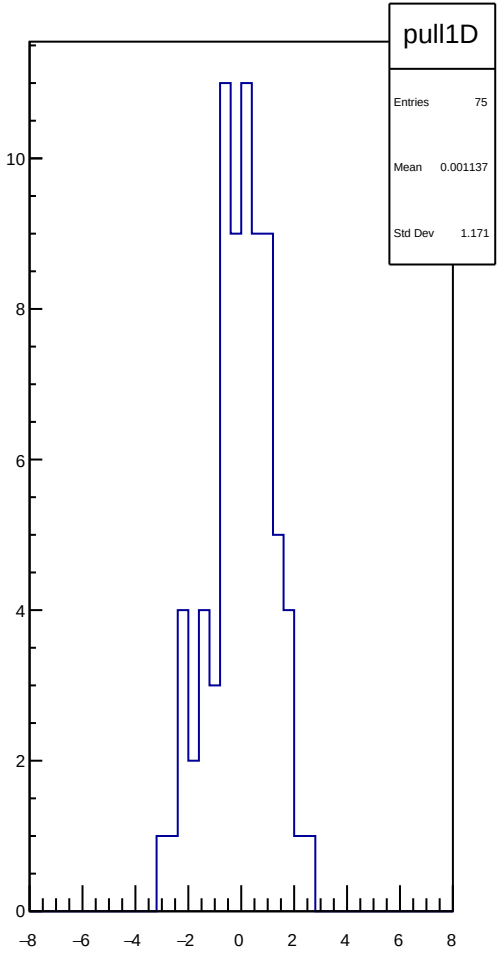

asym_usl_rms vs run
χ² / ndf 432 / 74
p0 1302 ± 1.083
1400
1380
1360
1340
1320
1300
1280
1260
1240

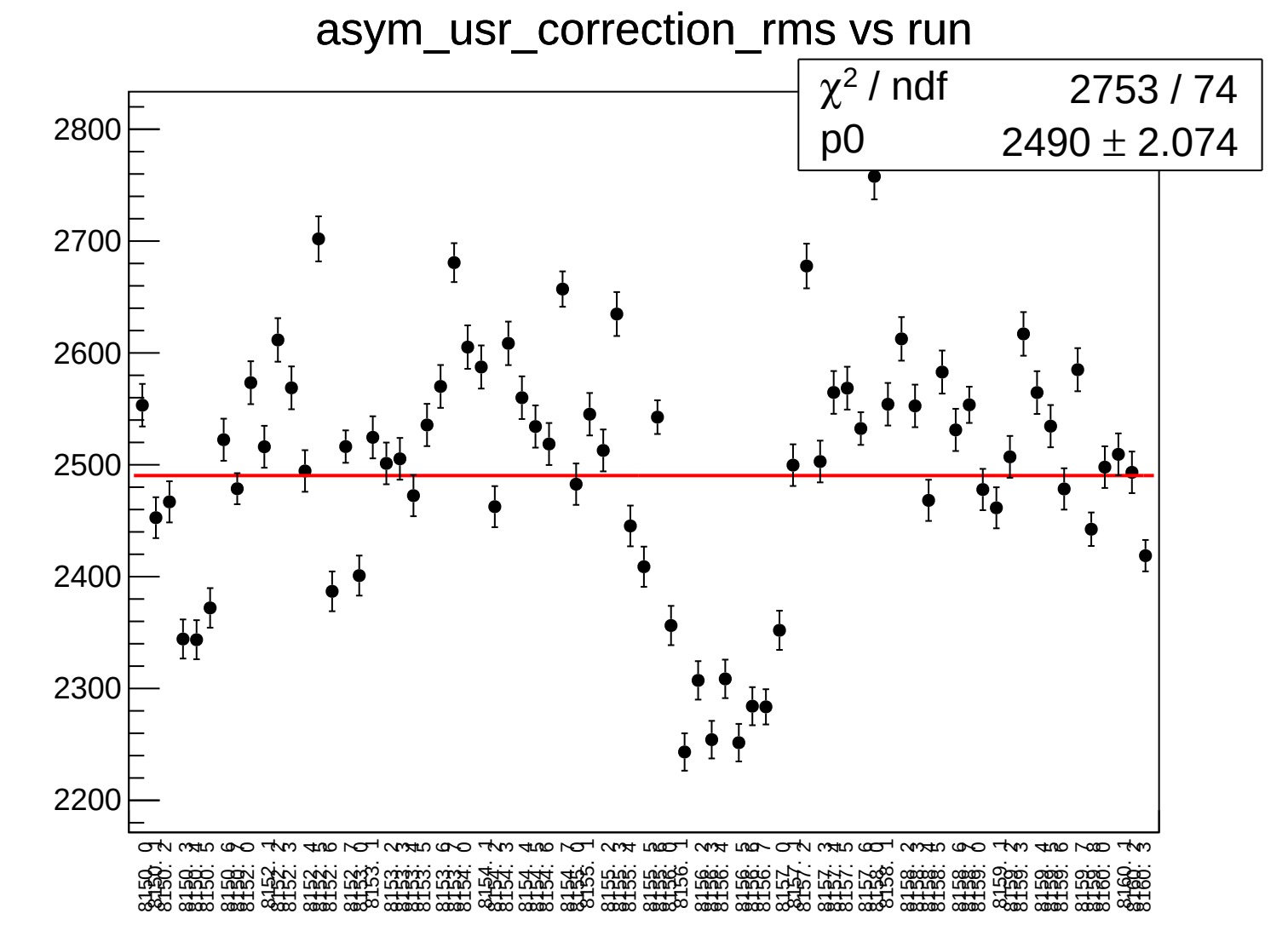

reg_asym_usr_mean vs run
χ² / ndf 63.91 / 74
p0 −3381 ± 1276
pull
Entries 75
Mean −1443
Std Dev 1480

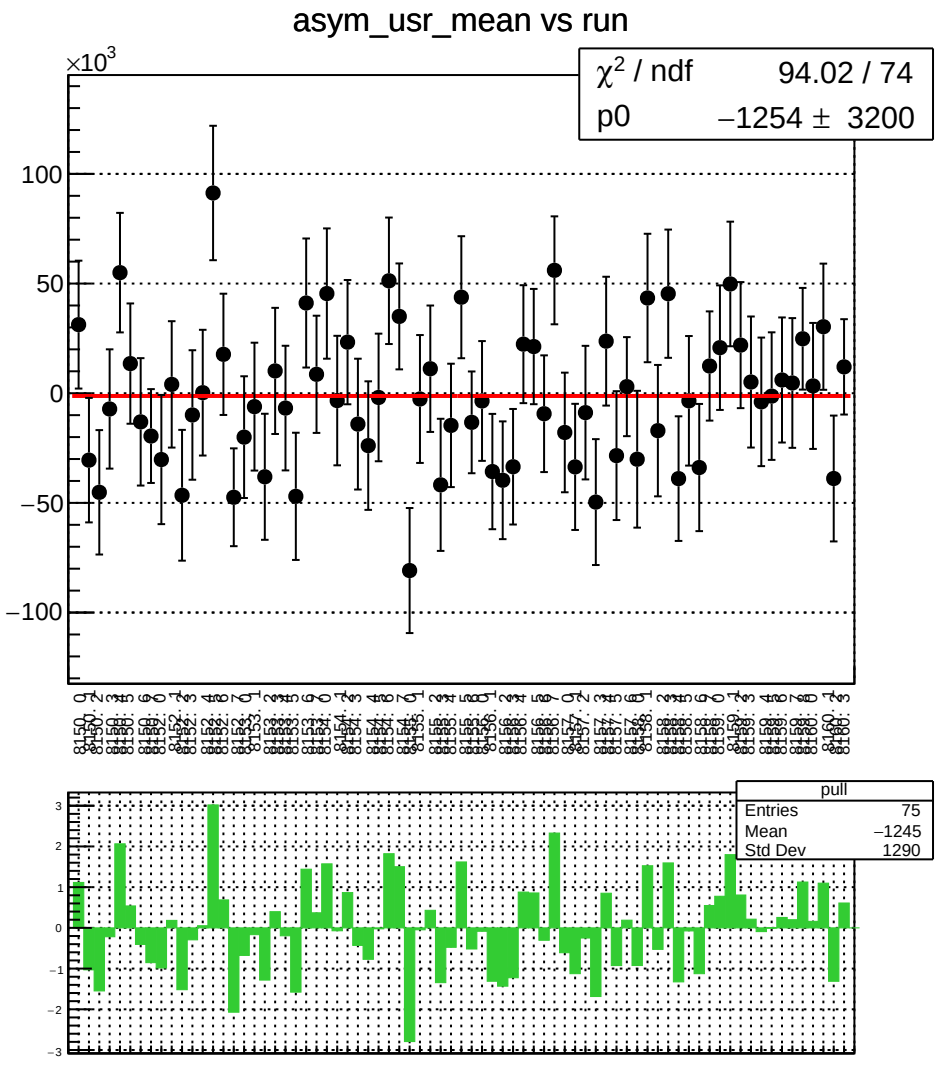

pull1D
Entries 75
Mean −0.001918
Std Dev 0.9231

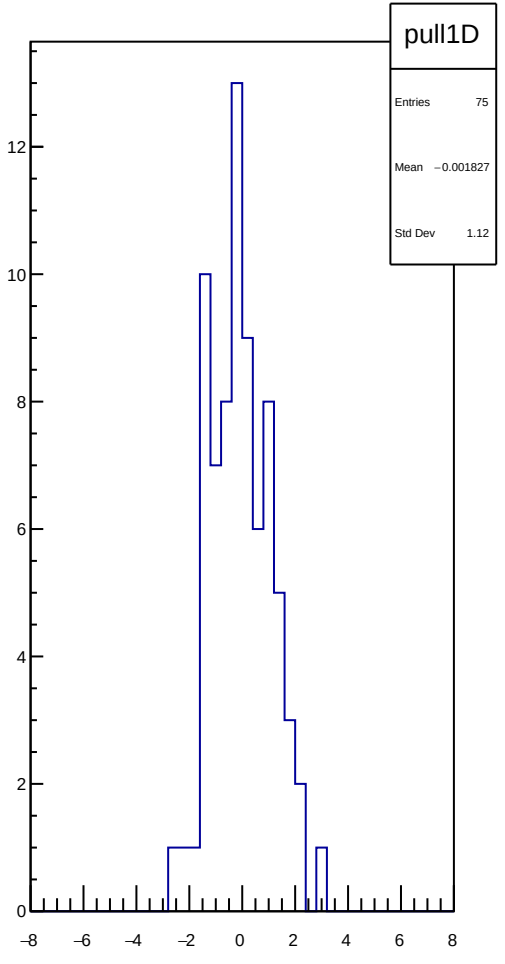

reg_asym_usr_rms vs run
χ² / ndf 250.8 / 74
p0 1084 ± 0.902
1140
1120
1100
1080
1060
1040

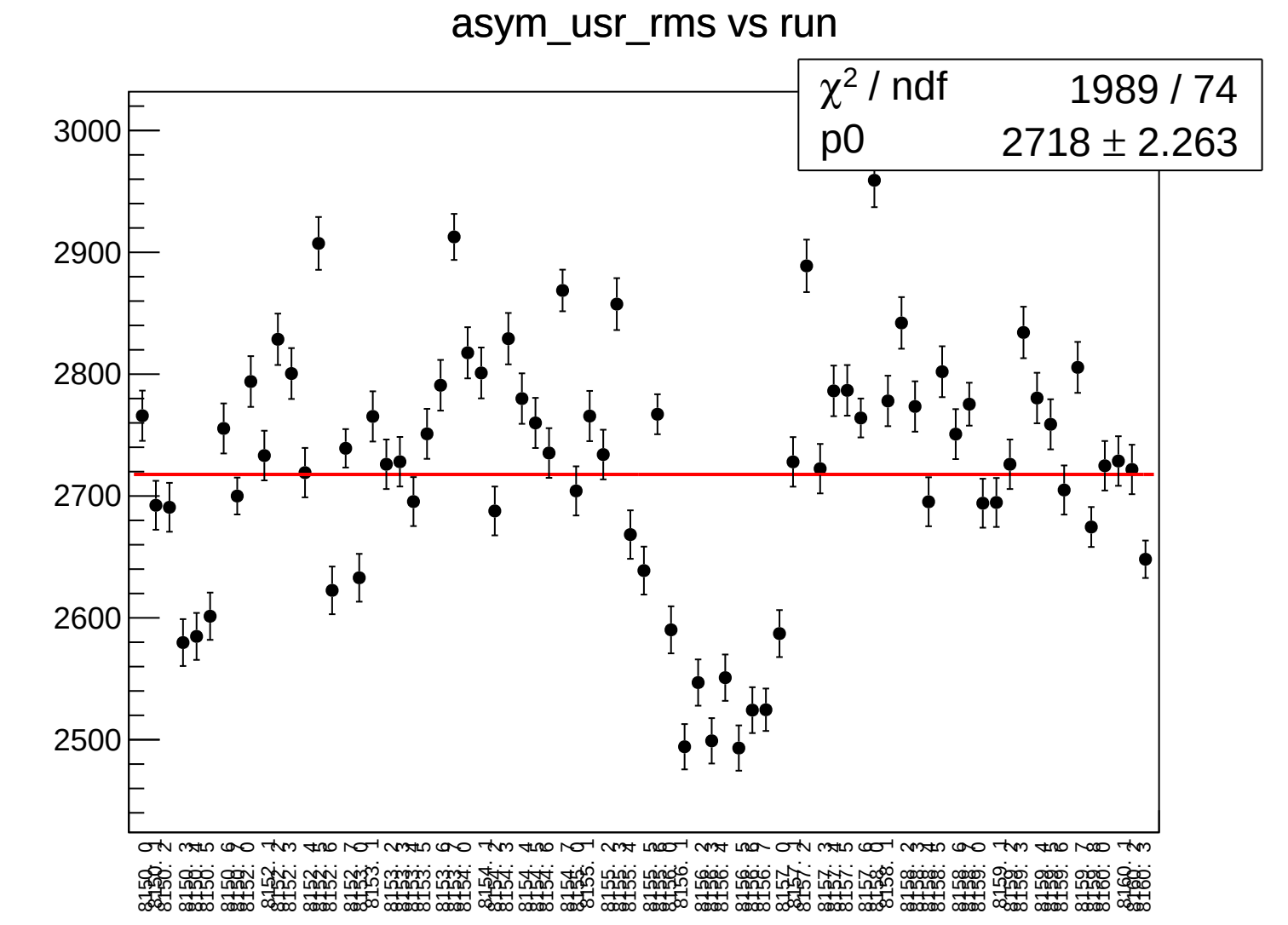

asym_usr_correction_mean vs run
×10^3
χ² / ndf 102.8 / 74
p0 −2128 ± 2933
100
50
0
−50
−100
pull
Entries 75
Mean −1165
Std Dev 1216
2
1
0
−1
−2
−3

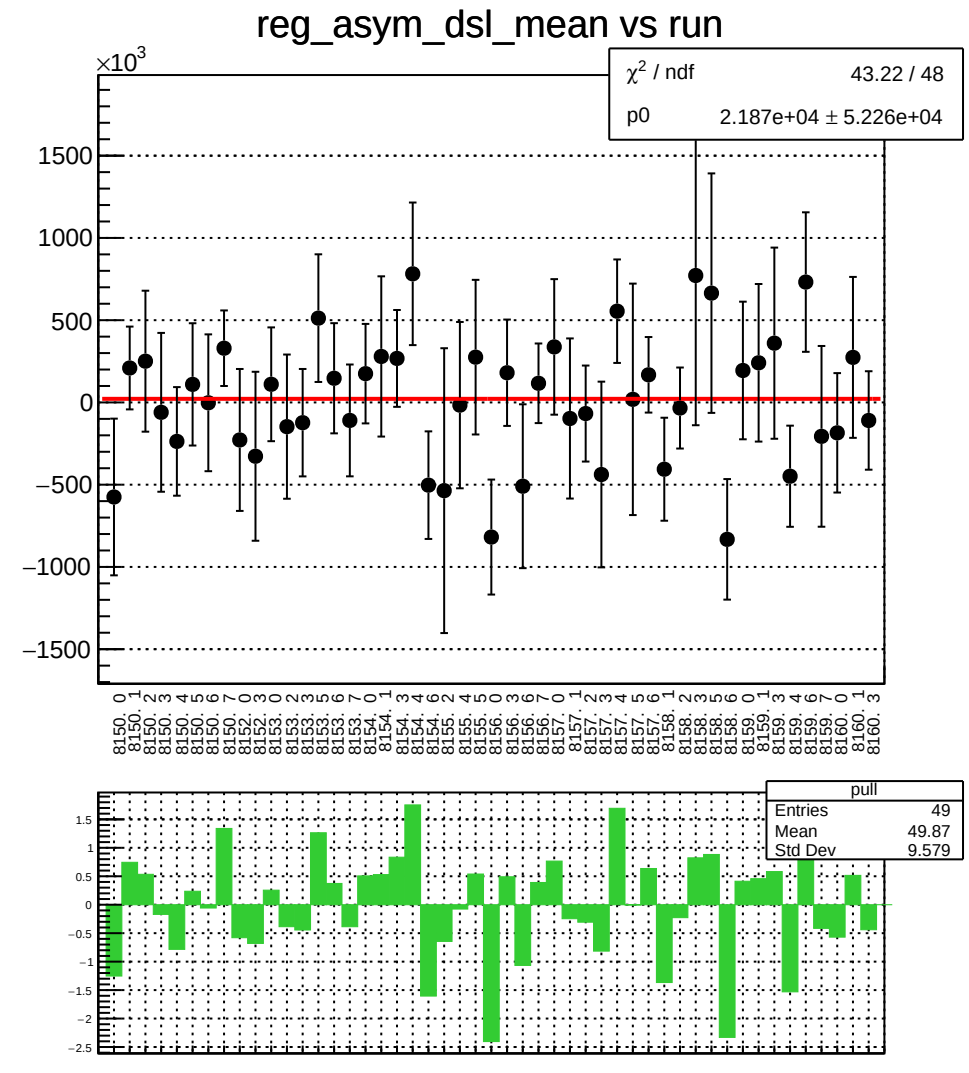

pull1D
Entries 75
Mean 0.001137
Std Dev 1.171
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

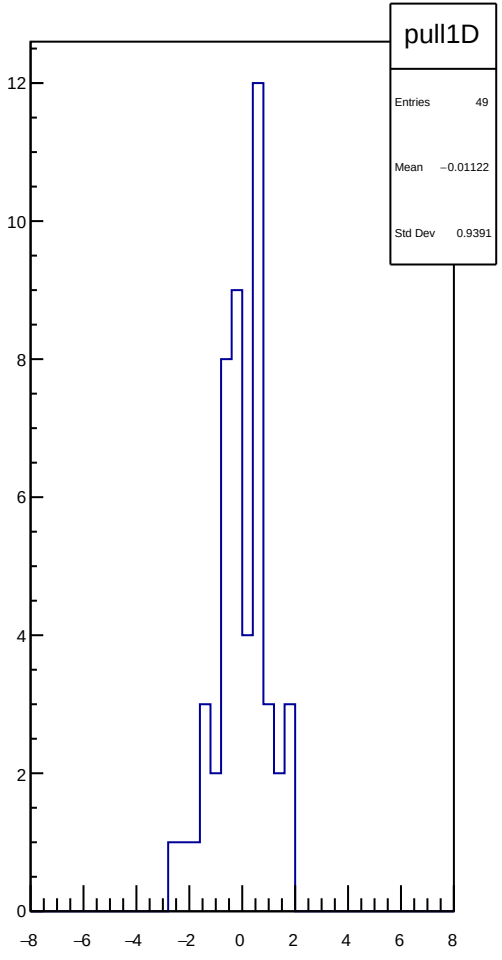

asym_usr_correction_rms vs run
χ² / ndf 2753 / 74
p0 2490 ± 2.074
2800
2700
2600
2500
2400
2300
2200

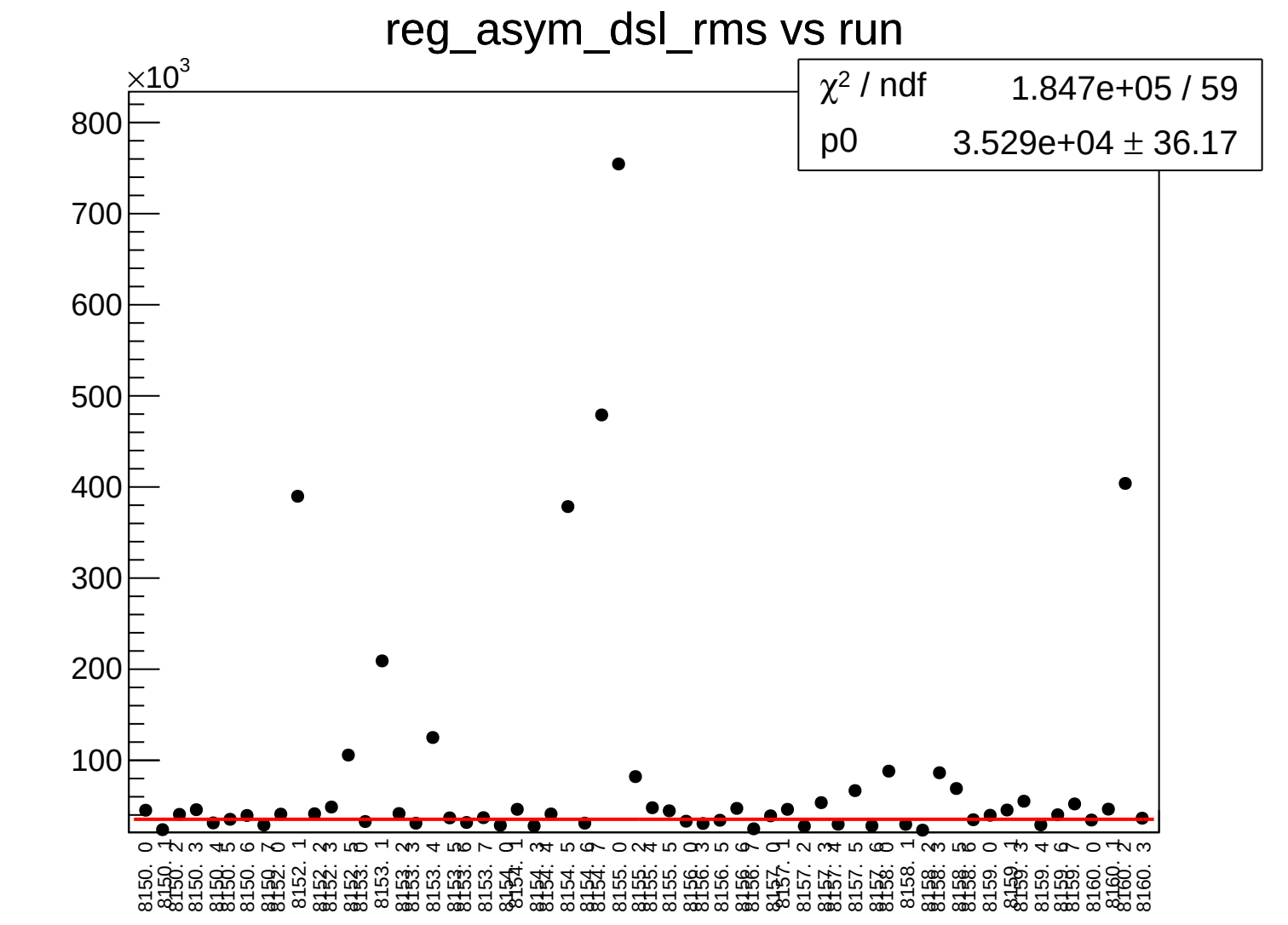

asym_usr_mean vs run
×10^3
χ² / ndf 94.02 / 74
p0 −1254 ± 3200
100
50
0
−50
−100
pull
Entries 75
Mean −1245
Std Dev 1290
3
2
1
0
−1
−2
−3

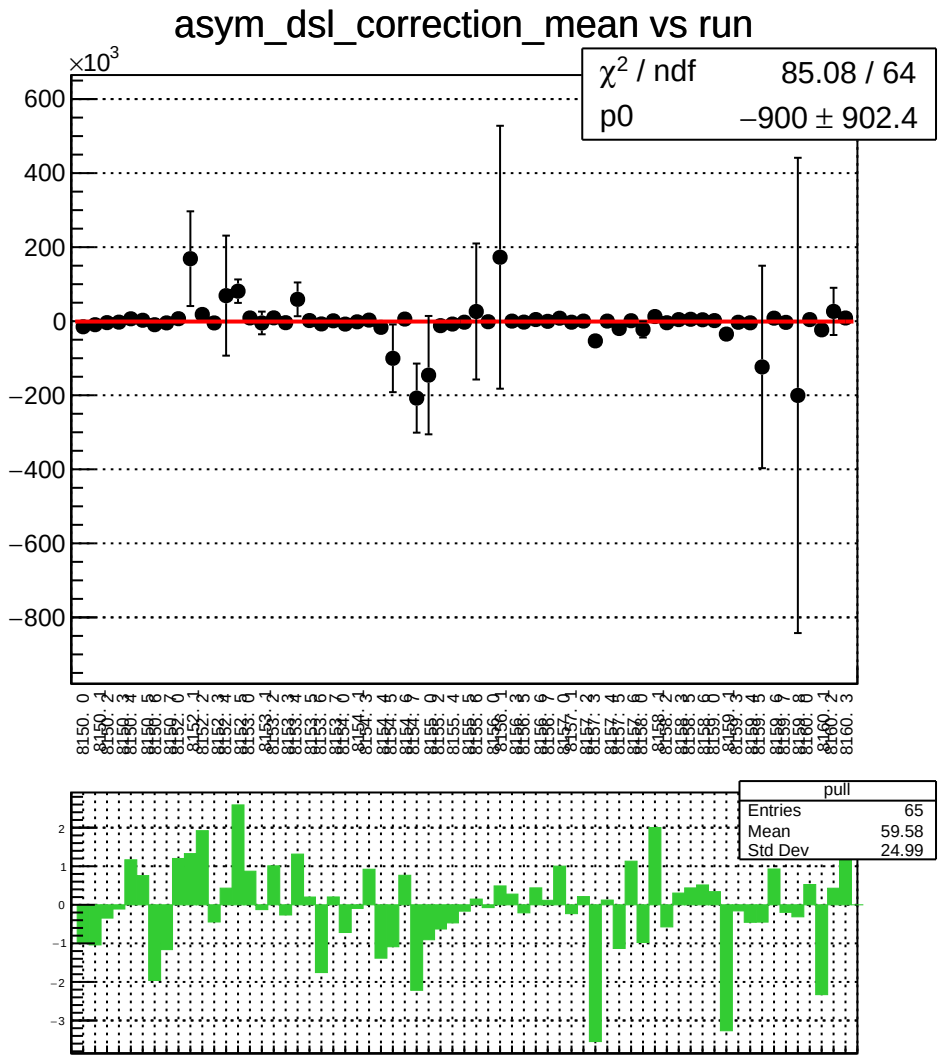

pull1D
Entries 75
Mean −0.001827
Std Dev 1.12
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

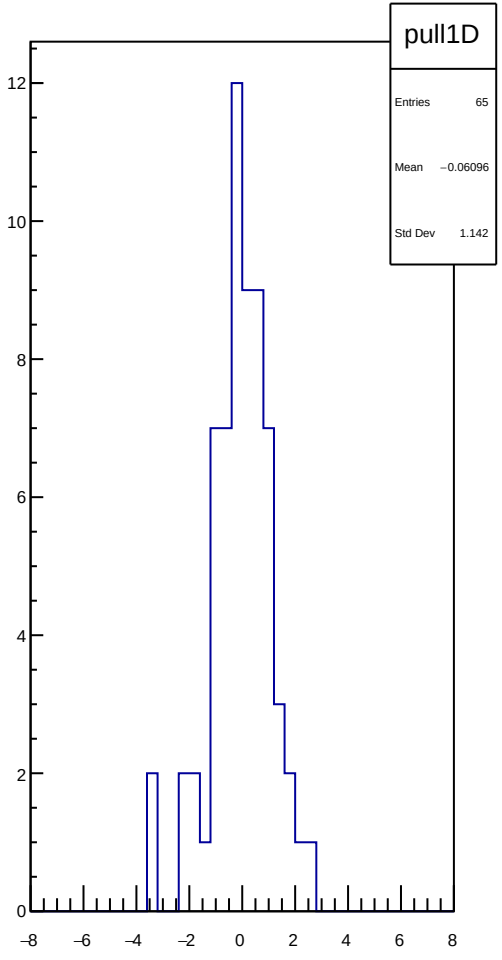

asym_usr_rms vs run
χ² / ndf 1989 / 74
p0 2718 ± 2.263
3000
2900
2800
2700
2600
2500

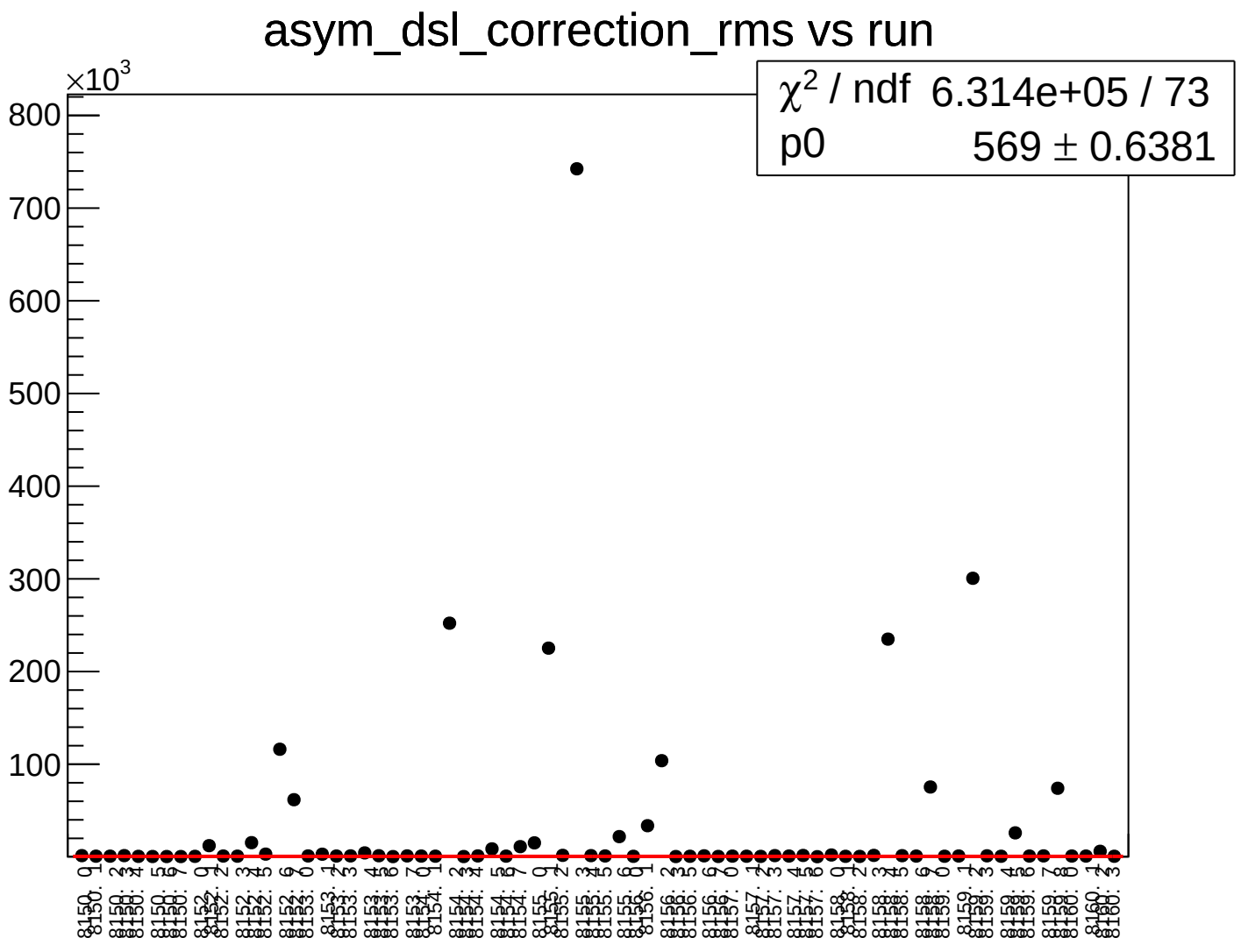

reg_asym_dsl_mean vs run
×10^3
χ² / ndf 43.22 / 48
p0 2.187e+04 ± 5.226e+04
1500
1000
500
0
−500
−1000
−1500
8150. 0
8150. 1
8150. 2
8150. 3
8150. 4
8150. 5
8150. 6
8150. 7
8152. 0
8152. 3
8153. 0
8153. 2
8153. 3
8153. 5
8153. 6
8153. 7
8154. 0
8154. 1
8154. 3
8154. 4
8154. 6
8155. 2
8155. 4
8155. 5
8156. 0
8156. 3
8156. 6
8156. 7
8157. 0
8157. 1
8157. 2
8157. 3
8157. 4
8157. 5
8157. 6
8158. 1
8158. 2
8158. 3
8158. 5
8158. 6
8159. 0
8159. 1
8159. 3
8159. 4
8159. 6
8159. 7
8160. 0
8160. 1
8160. 3
pull
Entries 49
Mean 49.87
Std Dev 9.579
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

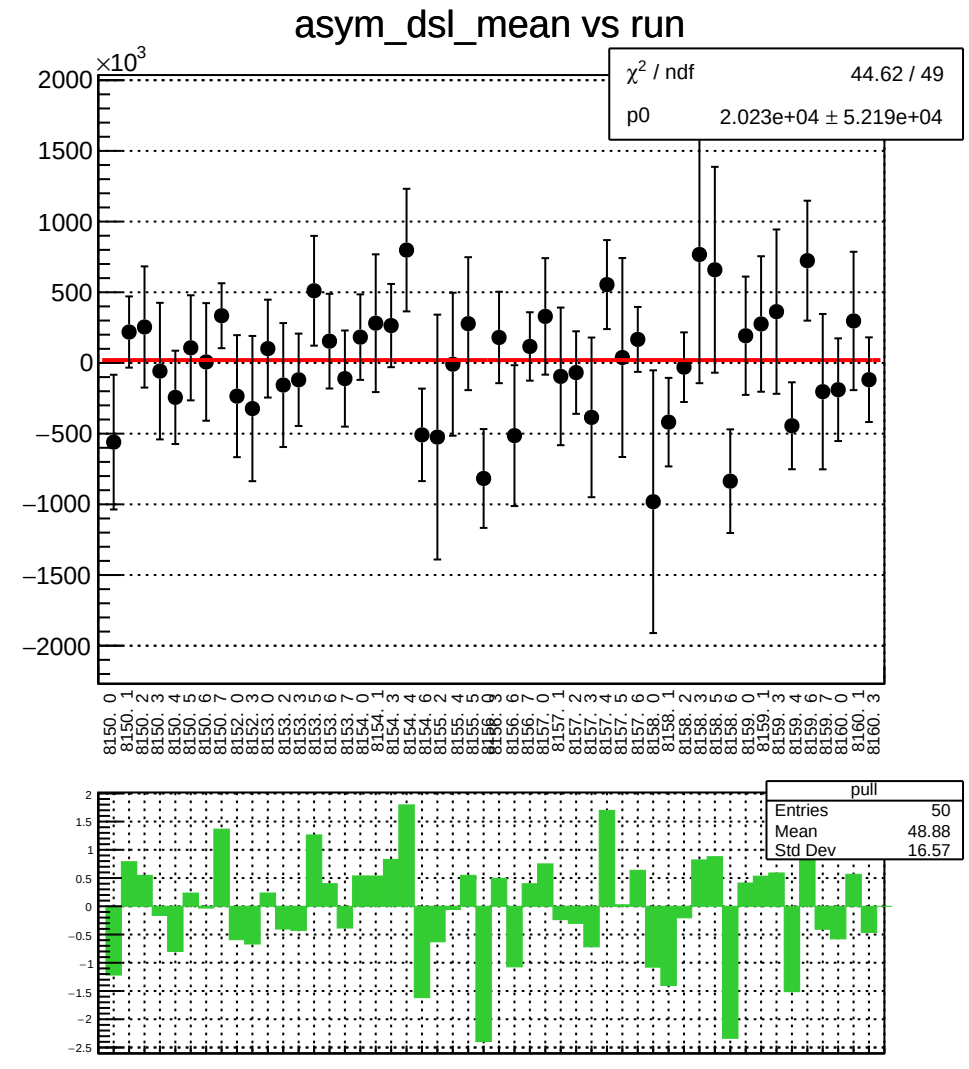

pull1D
Entries 49
Mean −0.01122
Std Dev 0.9391
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

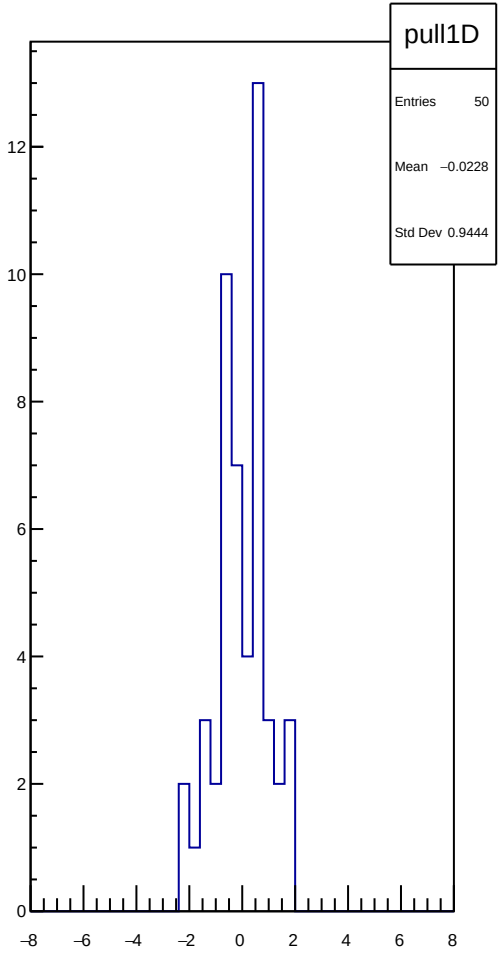

reg_asym_dsl_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.847e+05 / 59
p0 3.529e+04 ± 36.17
8150. 0
8150. 1
8150. 2
8150. 3
8150. 4
8150. 5
8150. 6
8150. 7
8151. 0
8152. 1
8152. 2
8152. 3
8152. 4
8152. 5
8152. 6
8153. 1
8153. 2
8153. 3
8153. 4
8153. 5
8153. 6
8153. 7
8154. 0
8154. 1
8154. 3
8154. 4
8154. 5
8154. 6
8154. 7
8155. 0
8155. 2
8155. 4
8155. 5
8156. 0
8156. 3
8156. 5
8156. 6
8156. 7
8157. 0
8157. 1
8157. 2
8157. 3
8157. 4
8157. 5
8157. 6
8158. 0
8158. 1
8158. 2
8158. 3
8158. 5
8158. 6
8159. 0
8159. 1
8159. 3
8159. 4
8159. 6
8159. 7
8160. 0
8160. 1
8160. 2
8160. 3

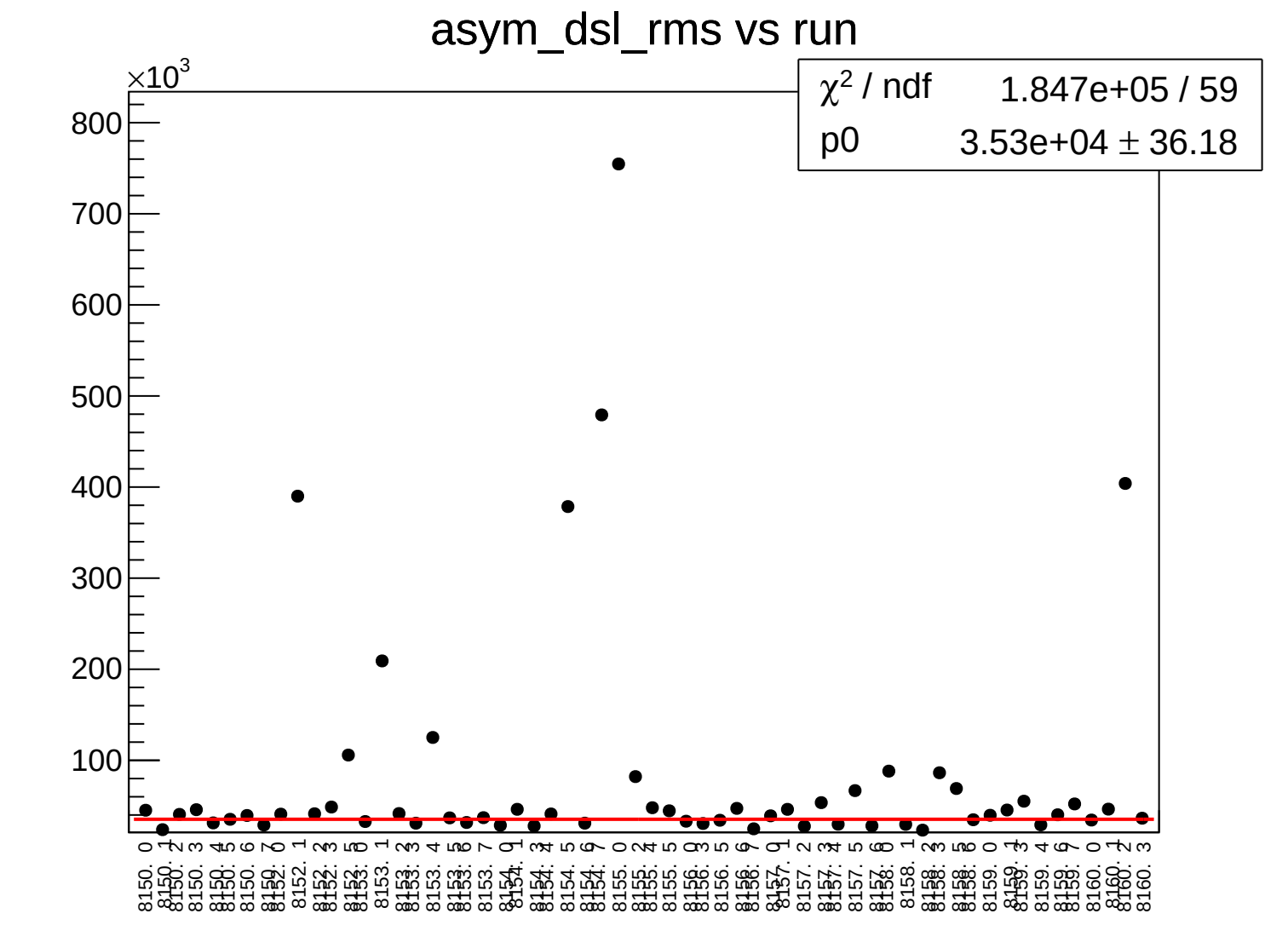

asym_dsl_correction_mean vs run
×10^3
χ² / ndf 85.08 / 64
p0 −900 ± 902.4
600
400
200
0
−200
−400
−600
−800
pull
Entries 65
Mean 59.58
Std Dev 24.99
2
1
0
−1
−2
−3

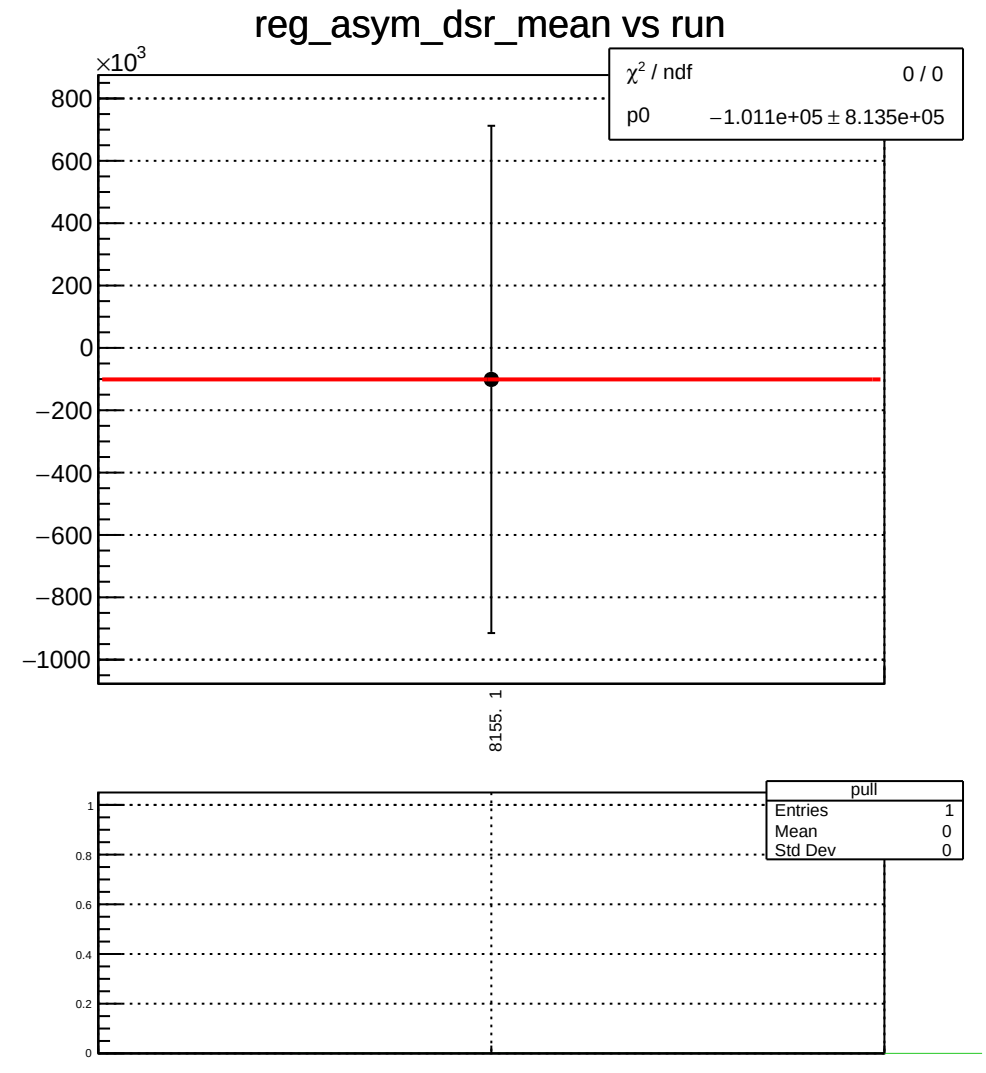

pull1D
Entries 65
Mean −0.06096
Std Dev 1.142
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

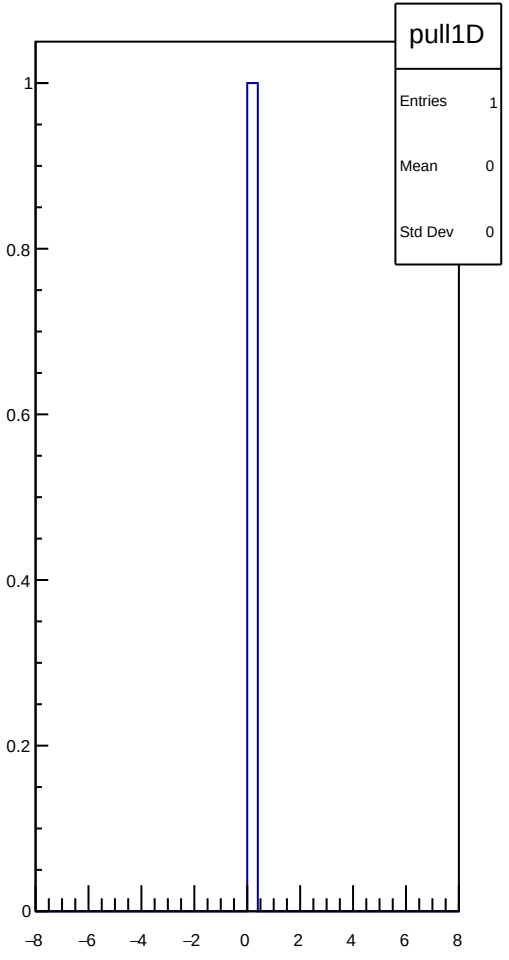

asym_dsl_correction_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 6.314e+05 / 73
p0 569 ± 0.6381

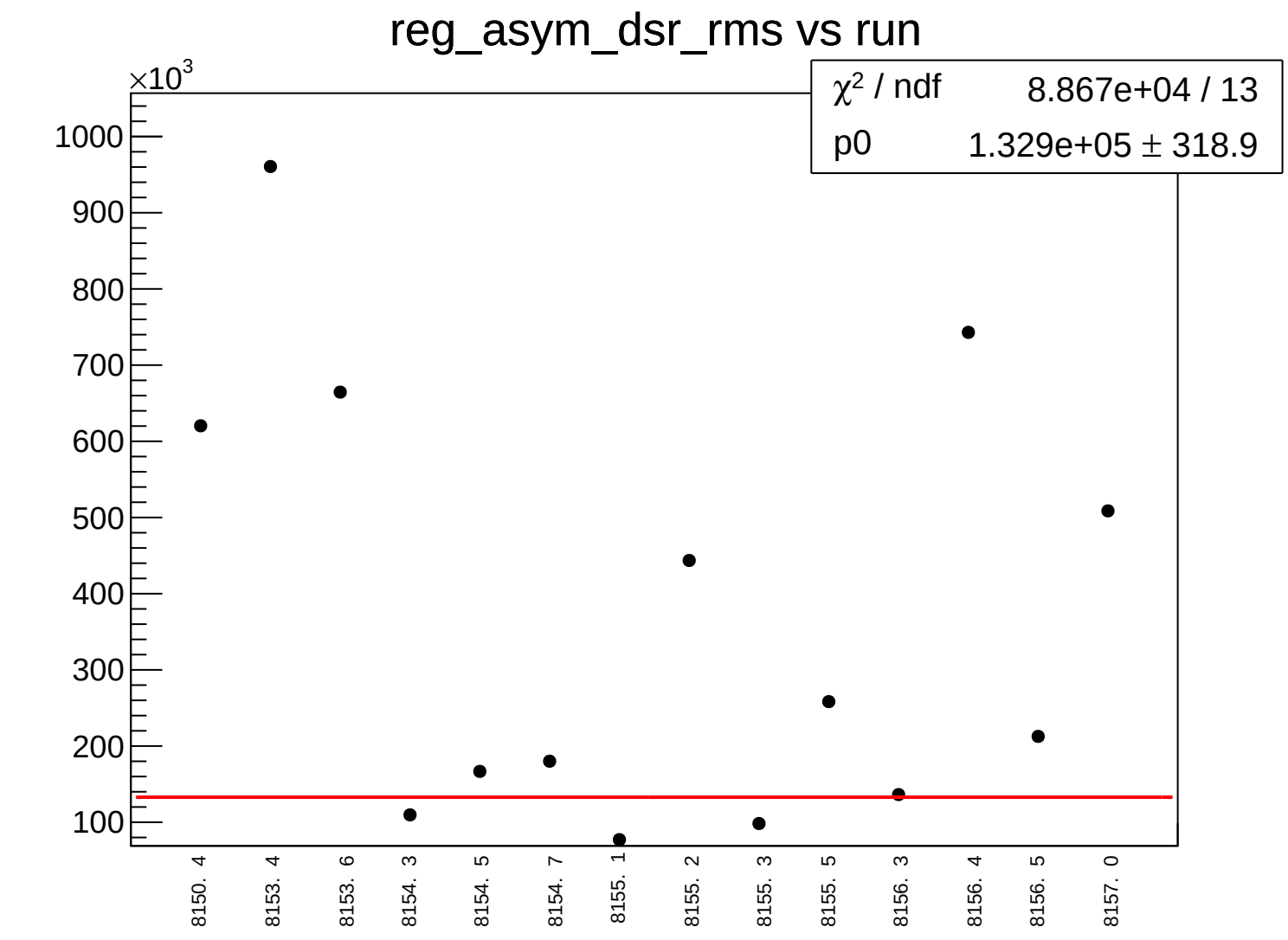

asym_dsl_mean vs run
×10^3
χ² / ndf 44.62 / 49
p0 2.023e+04 ± 5.219e+04
pull
Entries 50
Mean 48.88
Std Dev 16.57

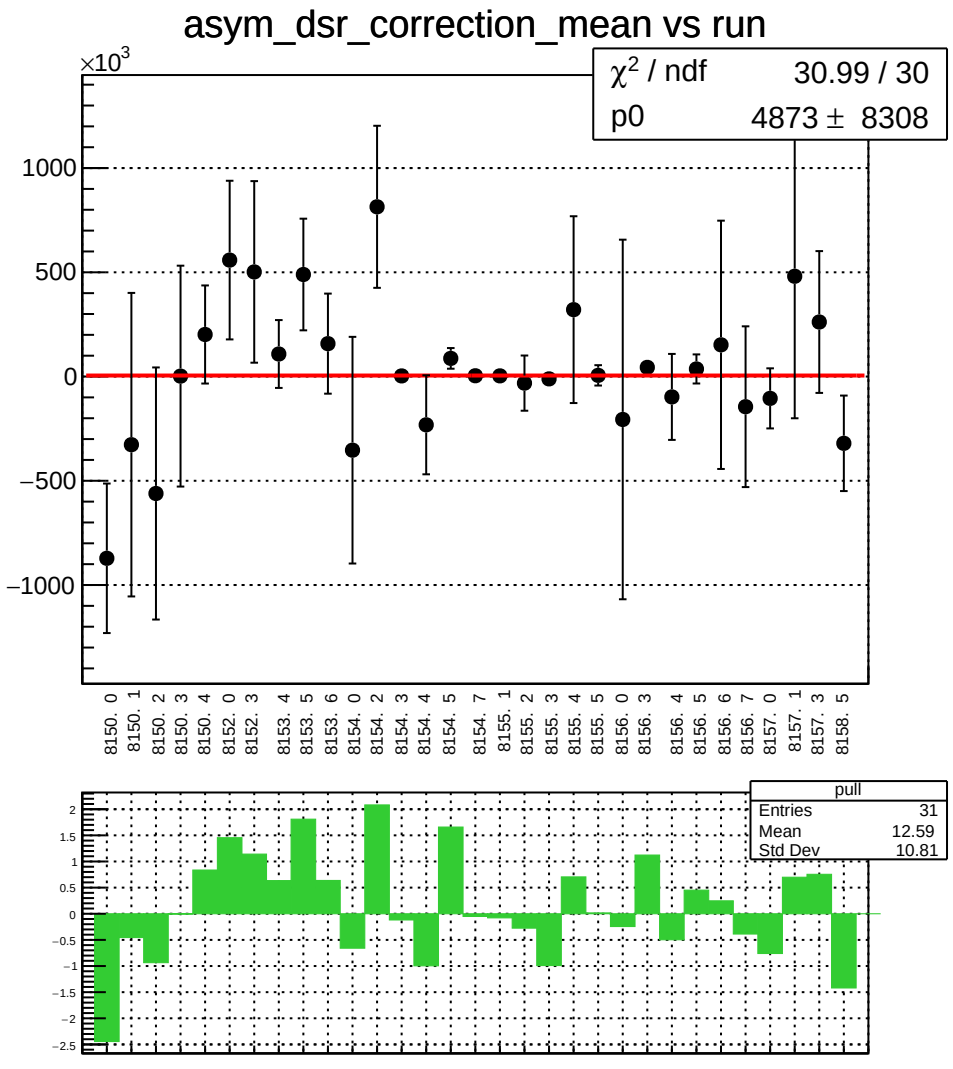

pull1D
Entries 50
Mean −0.0228
Std Dev 0.9444

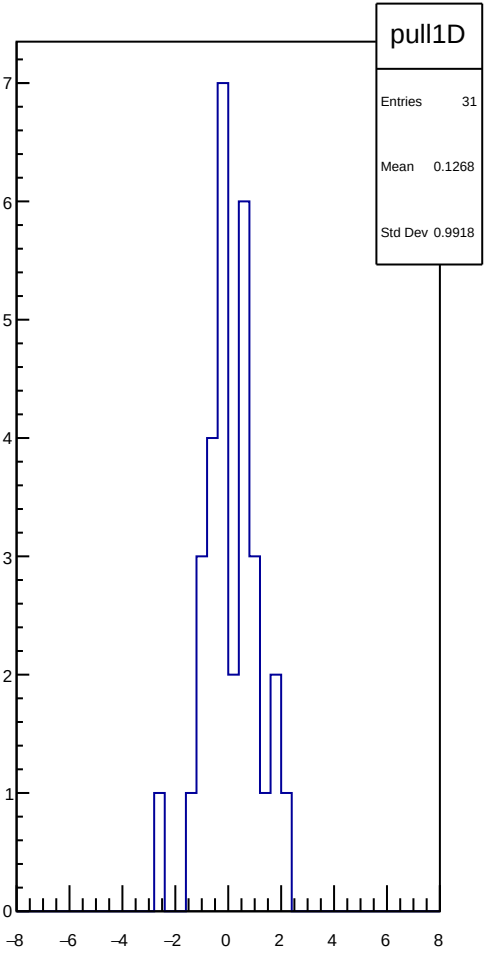

asym_dsl_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.847e+05 / 59
p0 3.53e+04 ± 36.18

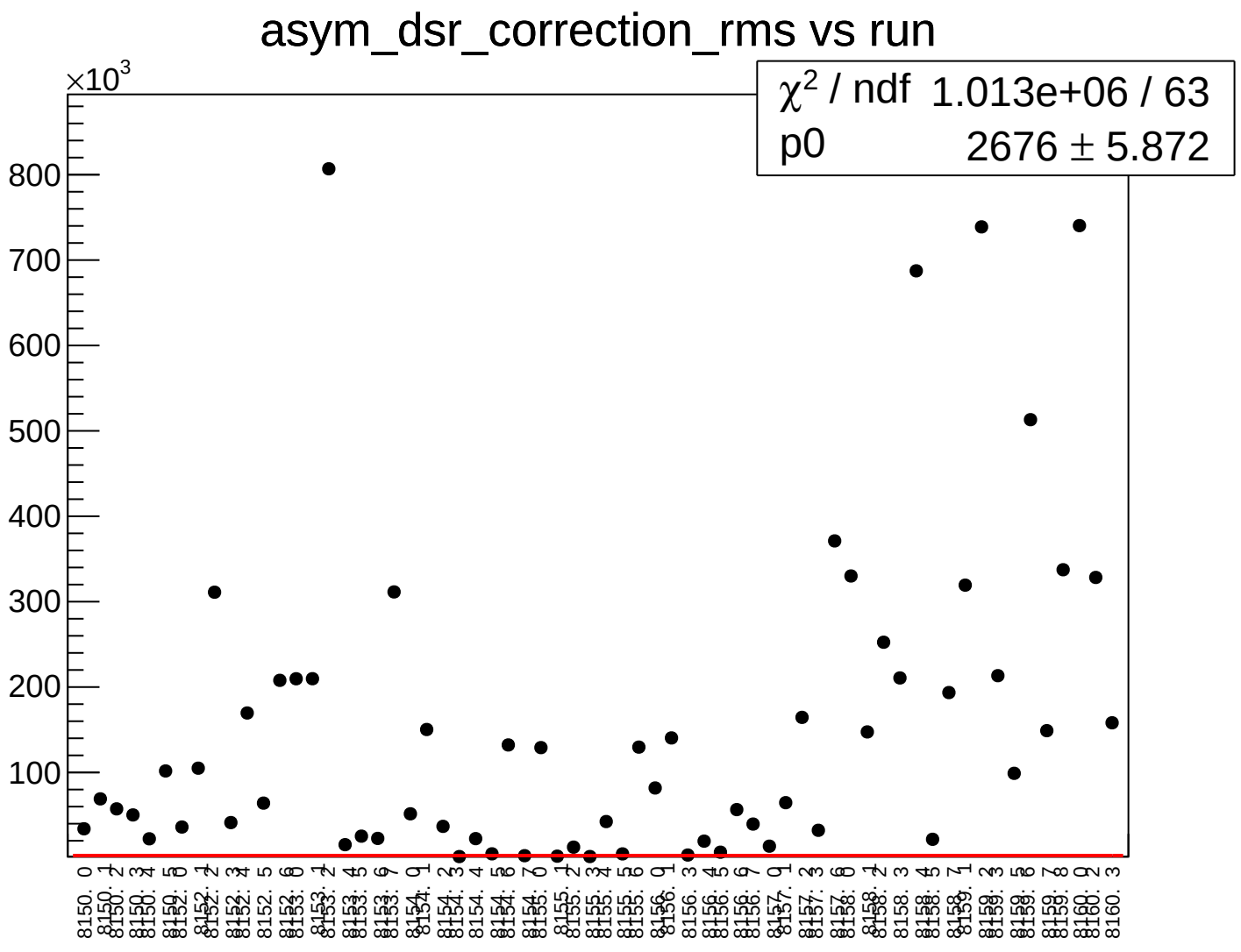

reg_asym_dsr_mean vs run
×10^3
χ² / ndf 0 / 0
p0 −1.011e+05 ± 8.135e+05
800
600
400
200
0
−200
−400
−600
−800
−1000
8155. 1
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

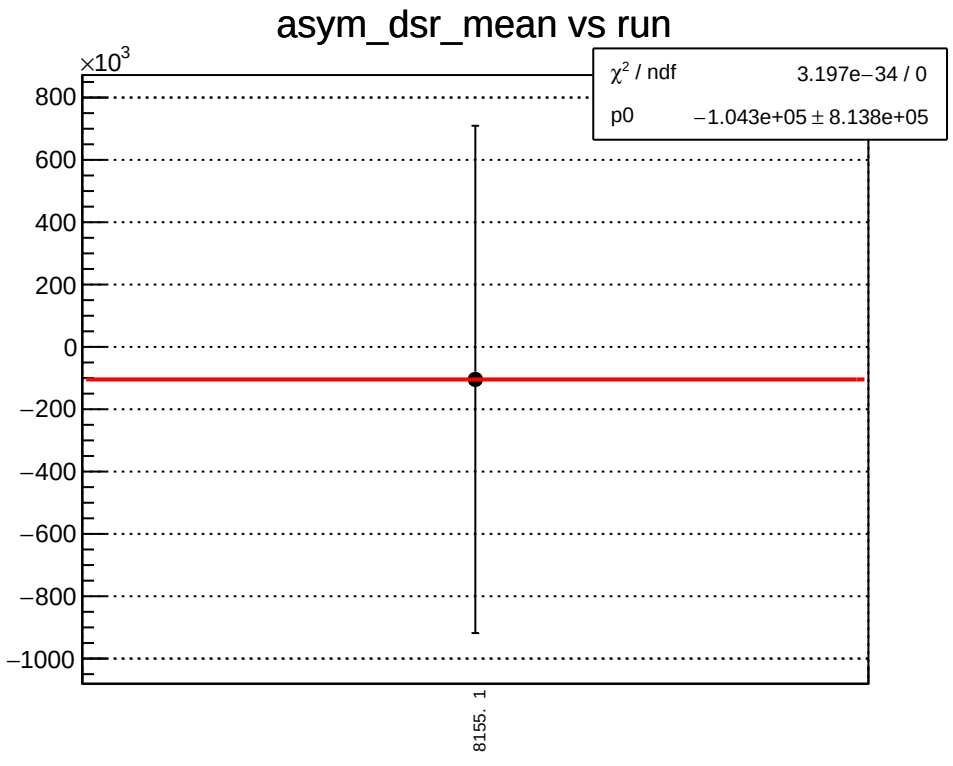

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

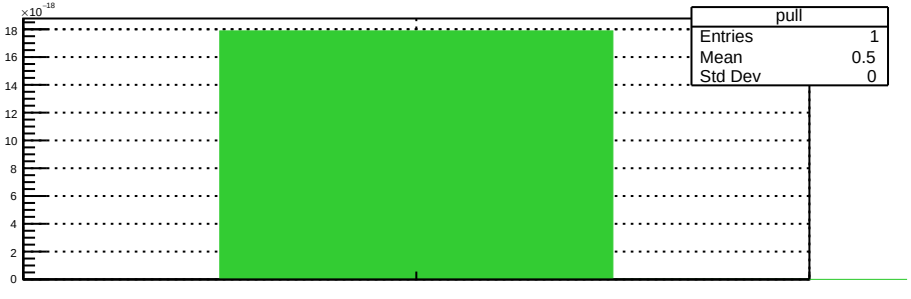

reg_asym_dsr_rms vs run
×10^3
χ² / ndf 8.867e+04 / 13
p0 1.329e+05 ± 318.9
1000
900
800
700
600
500
400
300
200
100
8150. 4
8153. 4
8153. 6
8154. 3
8154. 5
8154. 7
8155. 1
8155. 2
8155. 3
8155. 5
8156. 3
8156. 4
8156. 5
8157. 0

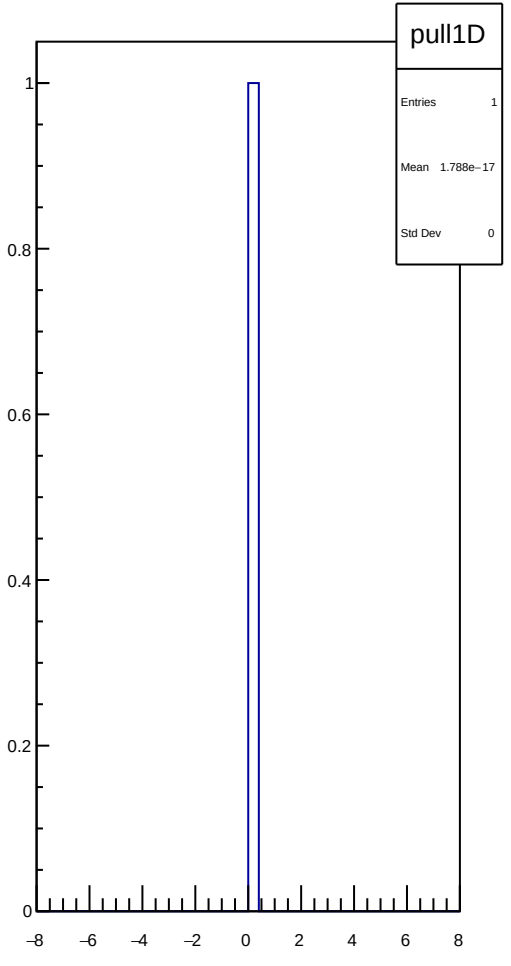

asym_dsr_correction_mean vs run
×10^3
χ^2 / ndf 30.99 / 30
p0 4873 ± 8308
1000
500
0
−500
−1000
8150. 0
8150. 1
8150. 2
8150. 3
8150. 4
8152. 0
8152. 3
8153. 4
8153. 5
8153. 6
8154. 0
8154. 2
8154. 3
8154. 4
8154. 5
8154. 7
8155. 1
8155. 2
8155. 3
8155. 4
8155. 5
8156. 0
8156. 3
8156. 4
8156. 5
8156. 6
8156. 7
8157. 0
8157. 1
8157. 3
8158. 5
pull
Entries 31
Mean 12.59
Std Dev 10.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

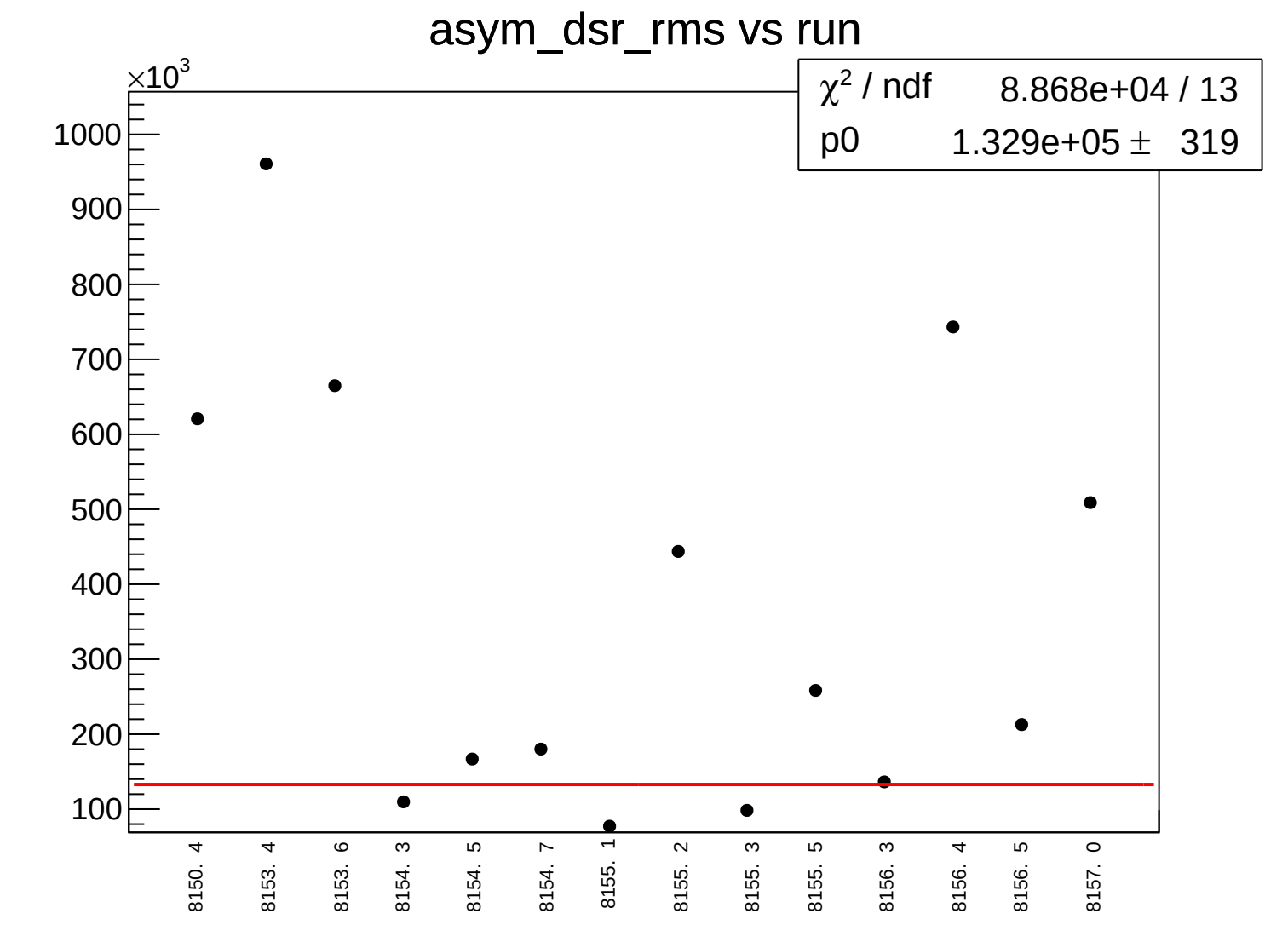

pull1D
Entries 31
Mean 0.1268
Std Dev 0.9918
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

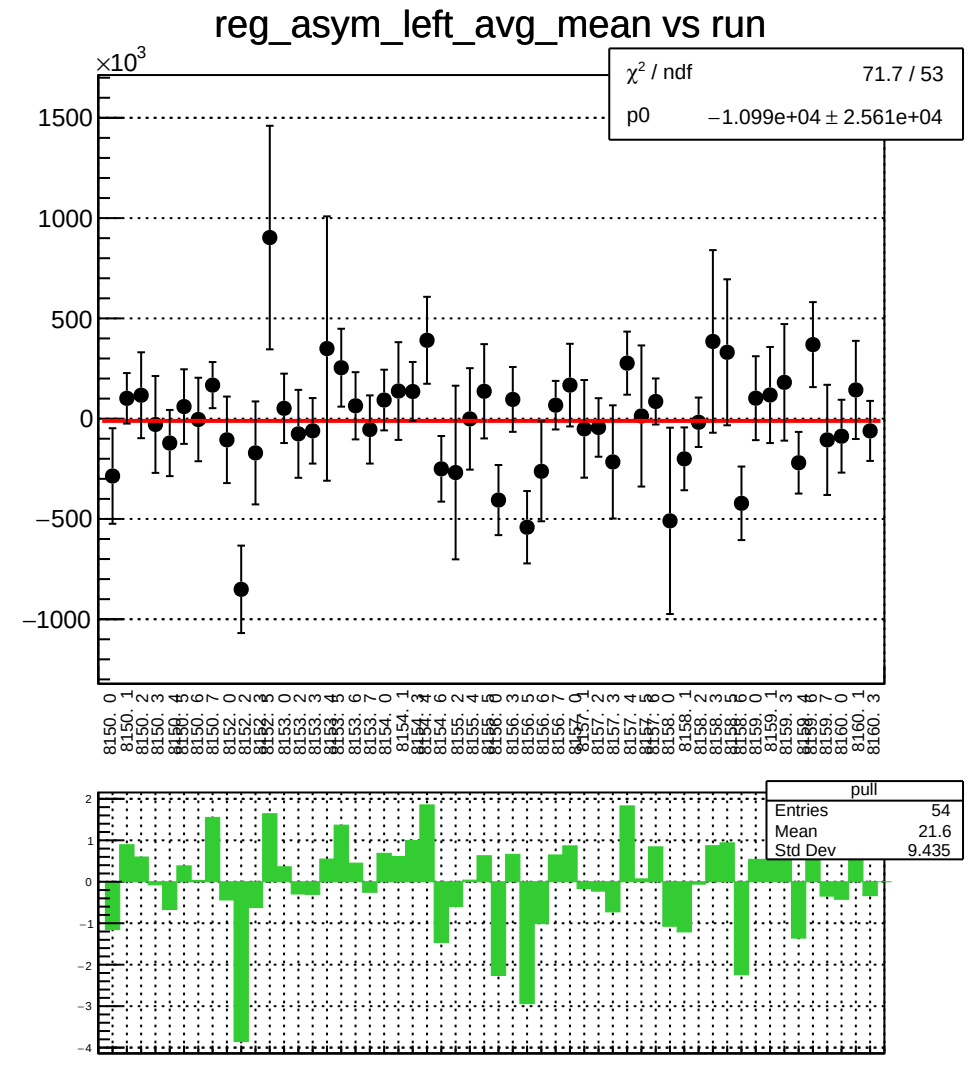

asym_dsr_correction_rms vs run
×10^3
χ^2 / ndf 1.013e+06 / 63
p0 2676 ± 5.872
800
700
600
500
400
300
200
100

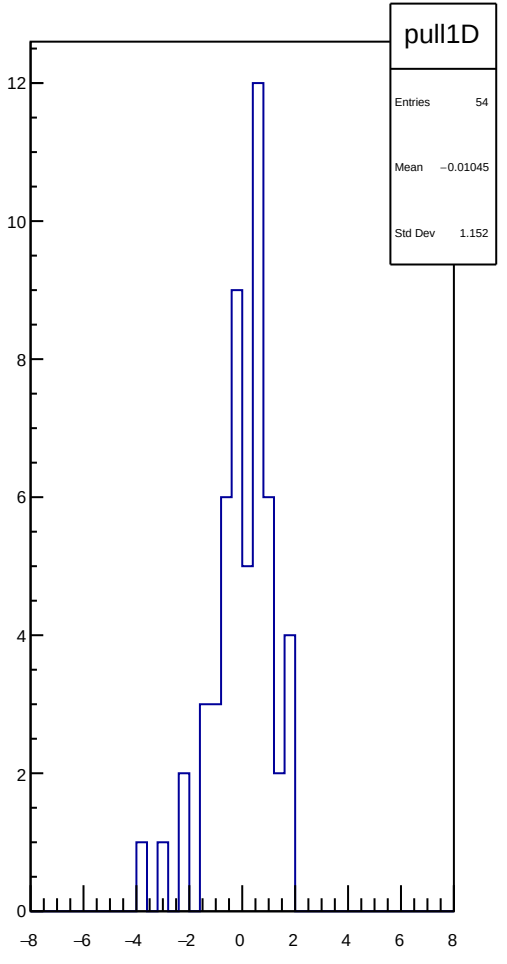

asym_dsr_mean vs run
×10^3
800
600
400
200
0
−200
−400
−600
−800
−1000
χ² / ndf 3.197e−34 / 0
p0 −1.043e+05 ± 8.138e+05
8155. 1

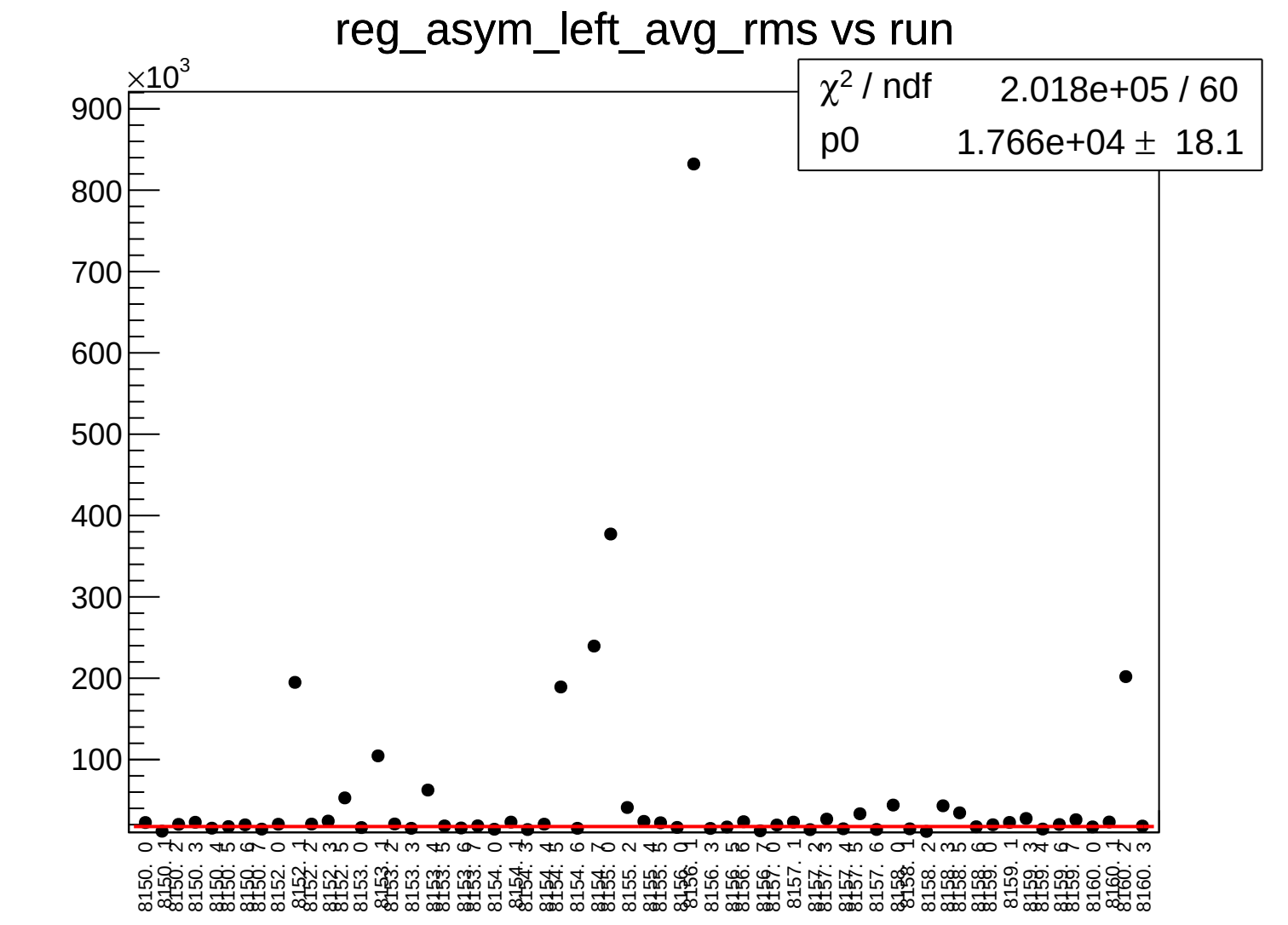

×10^-18
18
16
14
12
10
8
6
4
2
0
pull
Entries 1
Mean 0.5
Std Dev 0

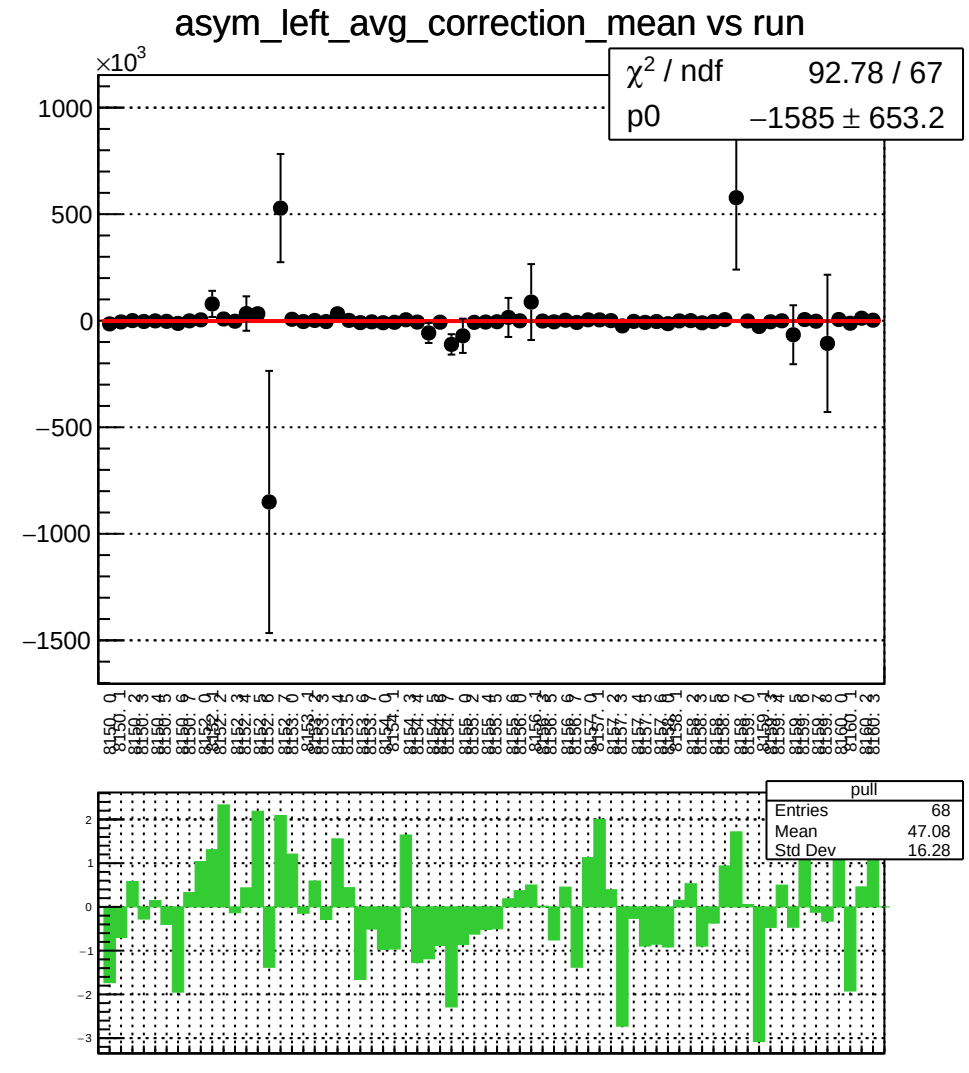

pull1D
Entries 1
Mean 1.788e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

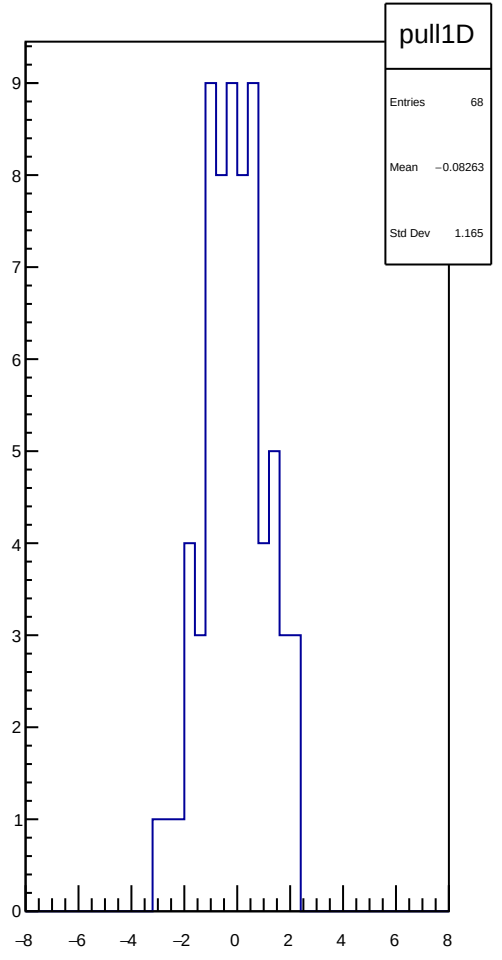

asym_dsr_rms vs run
×10^3
1000
900
800
700
600
500
400
300
200
100
χ² / ndf 8.868e+04 / 13
p0 1.329e+05 ± 319
8150. 4
8153. 4
8153. 6
8154. 3
8154. 5
8154. 7
8155. 1
8155. 2
8155. 3
8155. 5
8156. 3
8156. 4
8156. 5
8157. 0

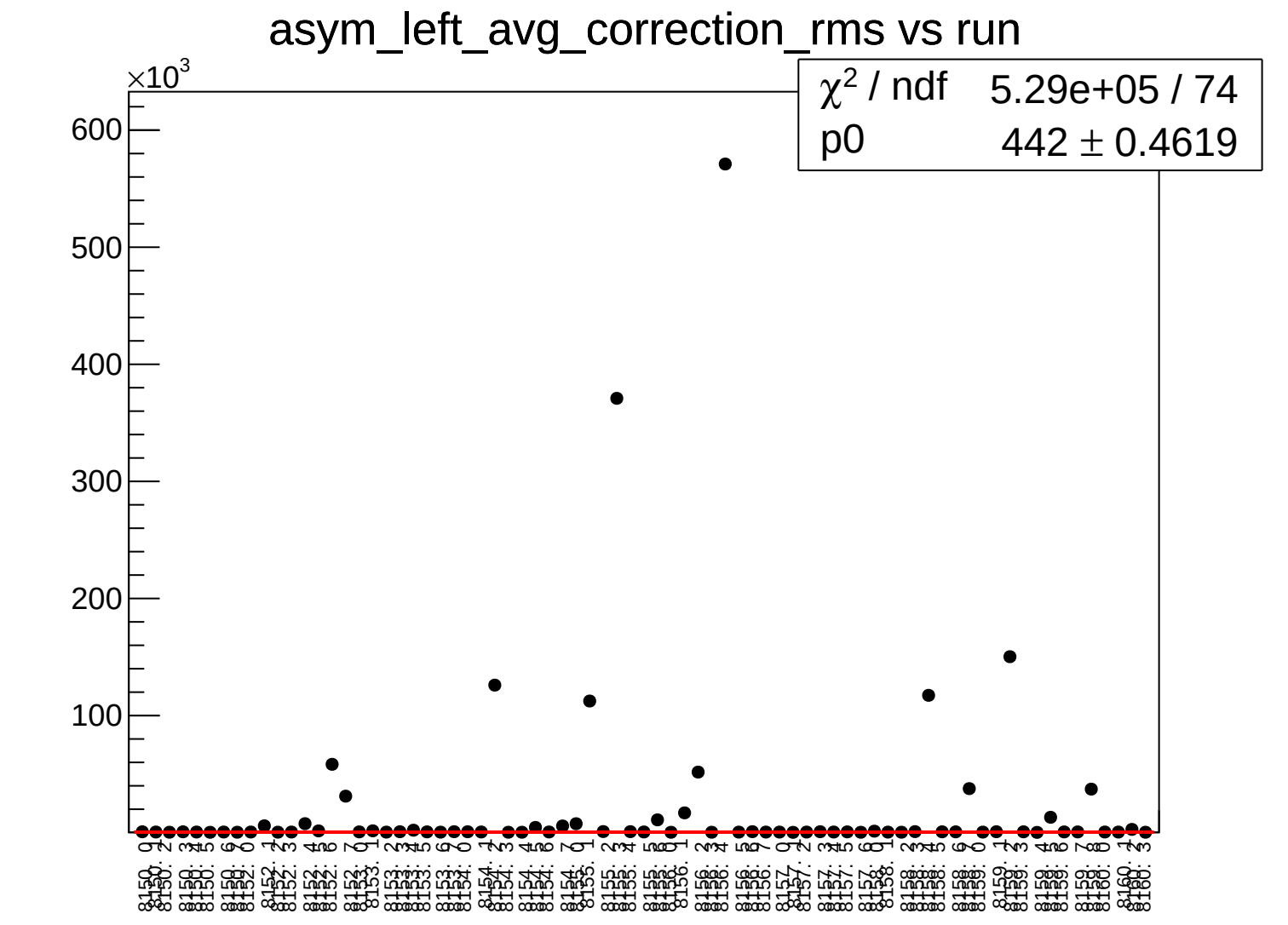

reg_asym_left_avg_mean vs run
×10^3
χ² / ndf 71.7 / 53
p0 −1.099e+04 ± 2.561e+04
1500
1000
500
0
−500
−1000
pull
Entries 54
Mean 21.6
Std Dev 9.435
2
1
0
−1
−2
−3
−4

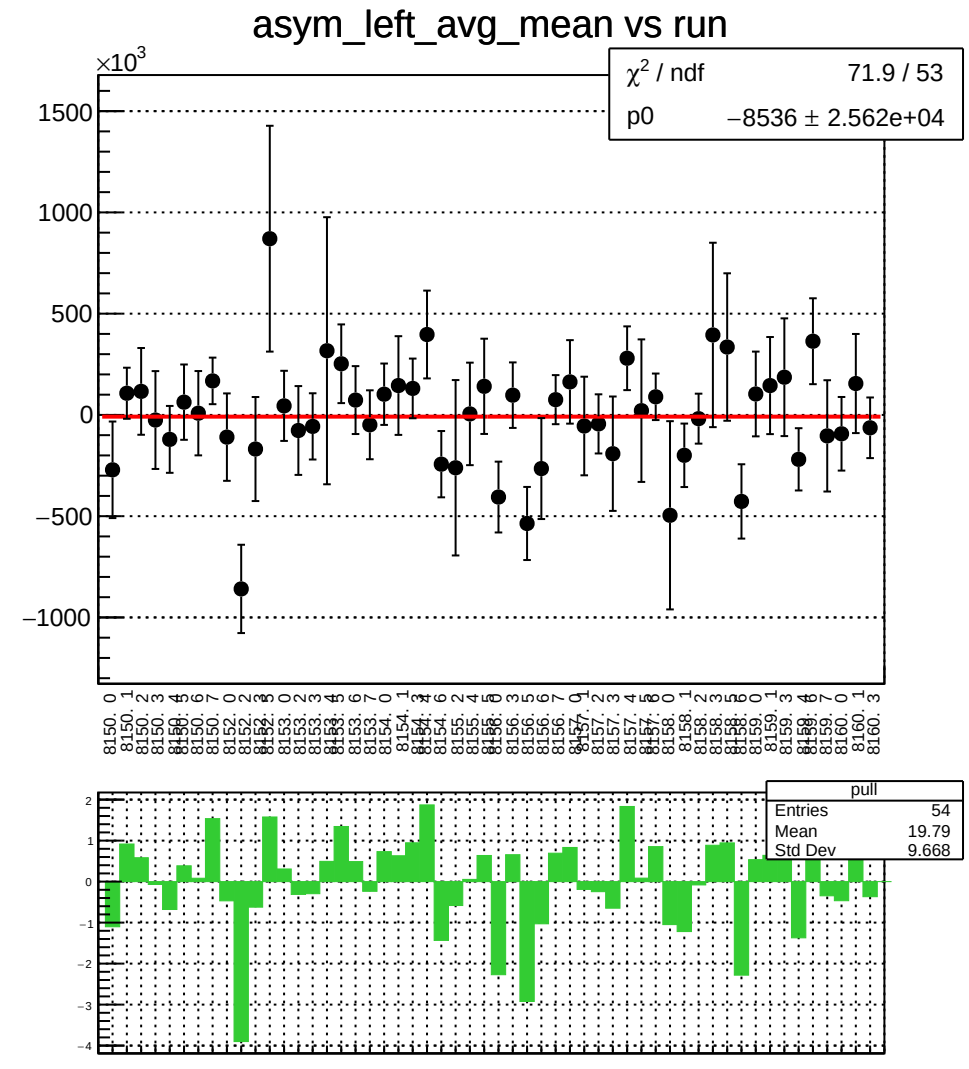

pull1D
Entries 54
Mean −0.01045
Std Dev 1.152
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

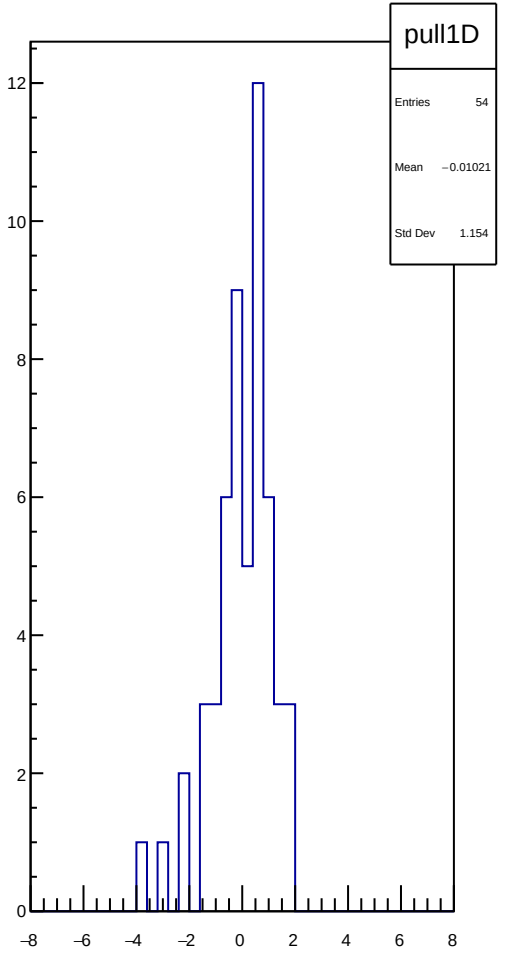

reg_asym_left_avg_rms vs run
×10^3
900
800
700
600
500
400
300
200
100
χ² / ndf 2.018e+05 / 60
p0 1.766e+04 ± 18.1

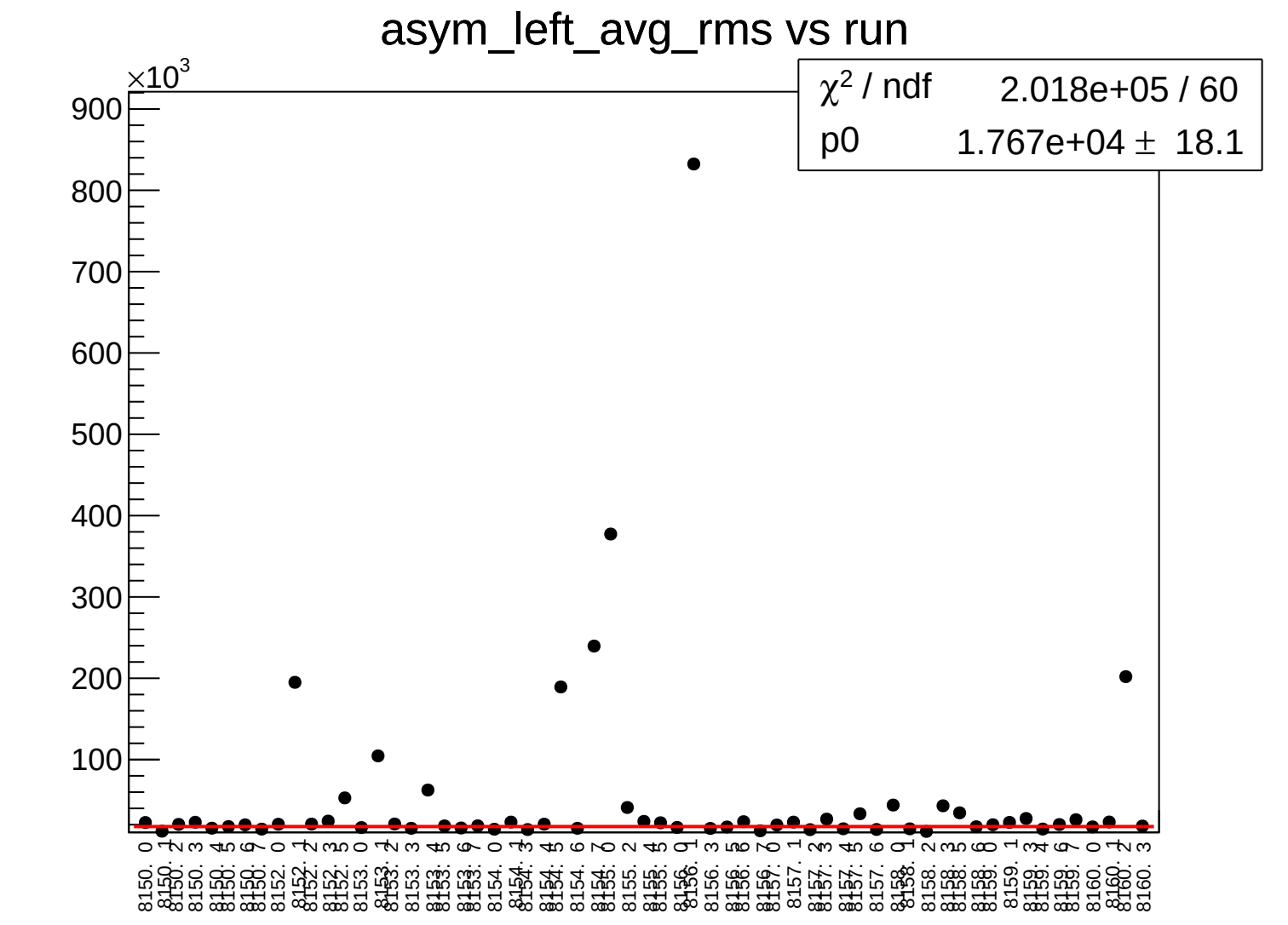

asym_left_avg_correction_mean vs run
×10^3
χ² / ndf 92.78 / 67
p0 −1585 ± 653.2
1000
500
0
−500
−1000
−1500
pull
Entries 68
Mean 47.08
Std Dev 16.28
2
1
0
−1
−2
−3

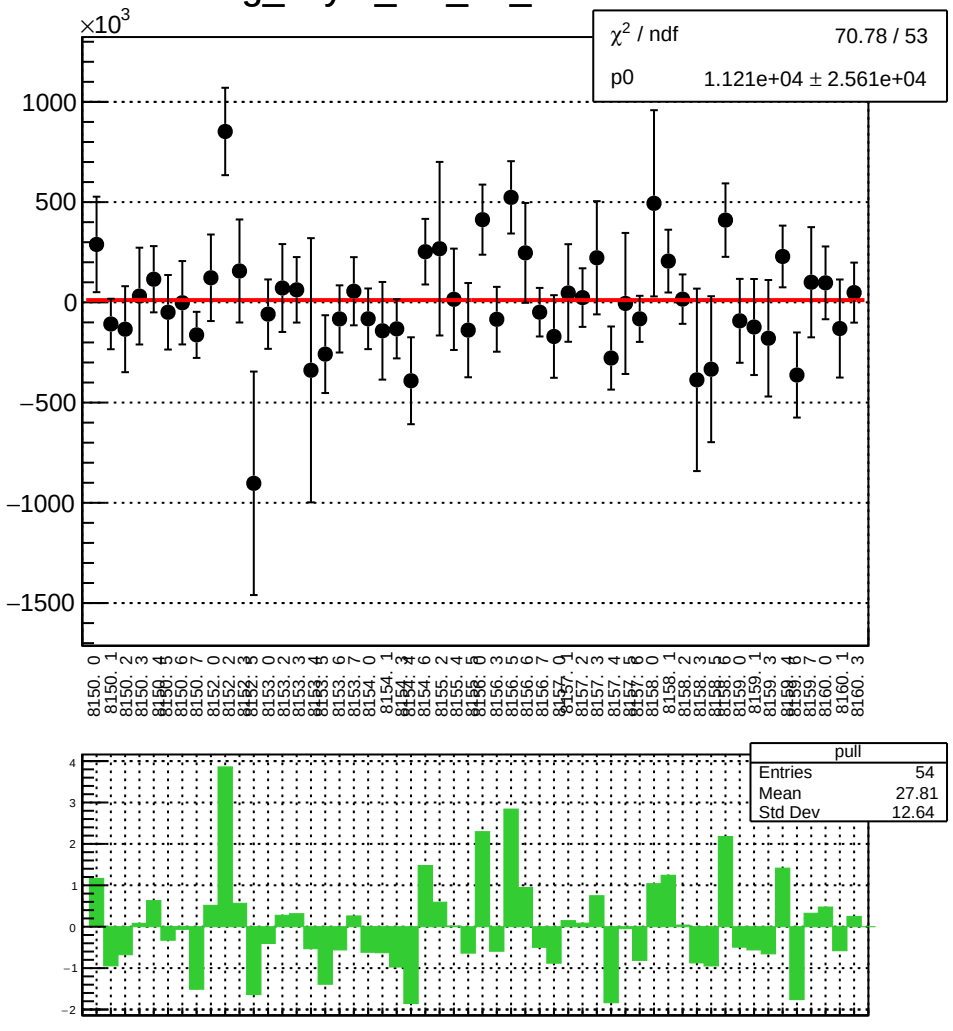

pull1D
Entries 68
Mean −0.08263
Std Dev 1.165
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

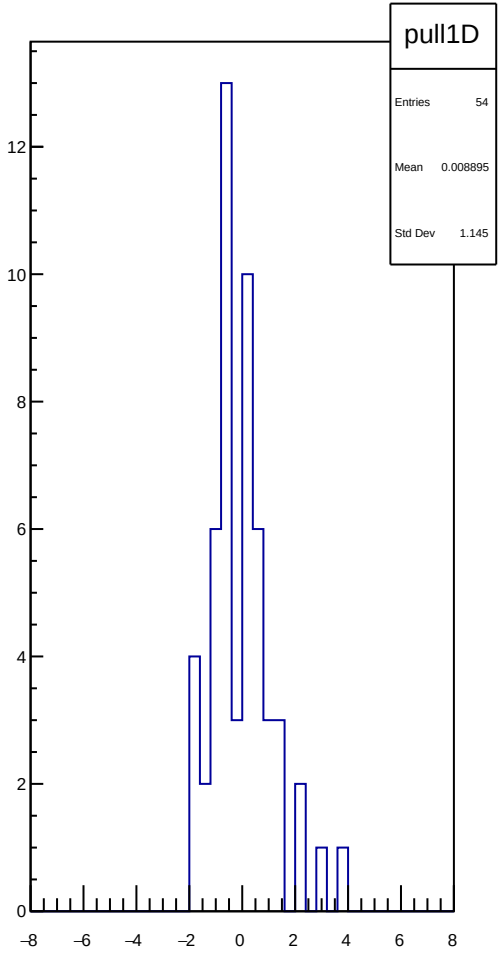

asym_left_avg_correction_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 5.29e+05 / 74
p0 442 ± 0.4619

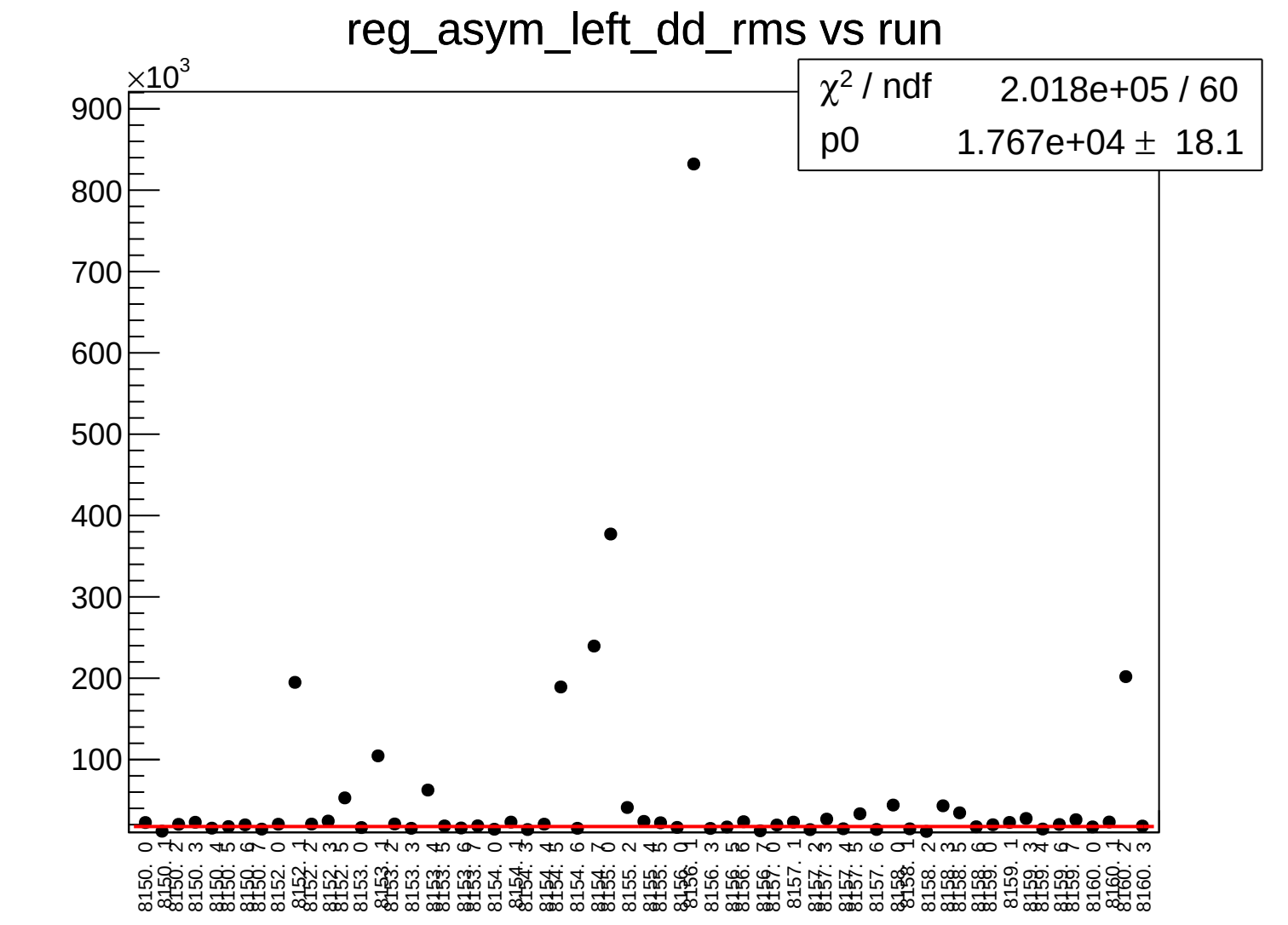

asym_left_avg_mean vs run
×10^3
χ² / ndf 71.9 / 53
p0 −8536 ± 2.562e+04
1500
1000
500
0
−500
−1000
pull
Entries 54
Mean 19.79
Std Dev 9.668
2
1
0
−1
−2
−3
−4

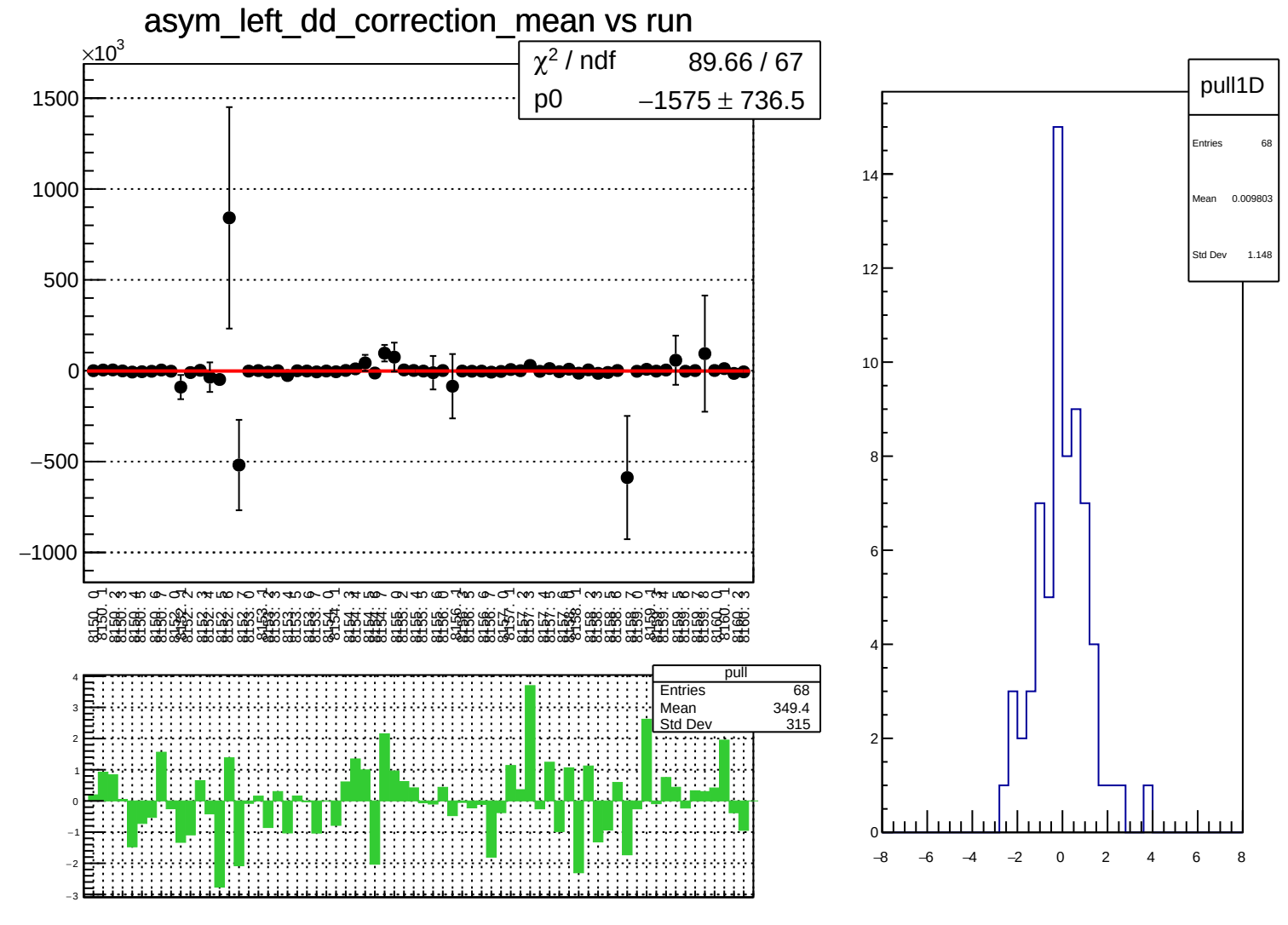

pull1D
Entries 54
Mean −0.01021
Std Dev 1.154
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

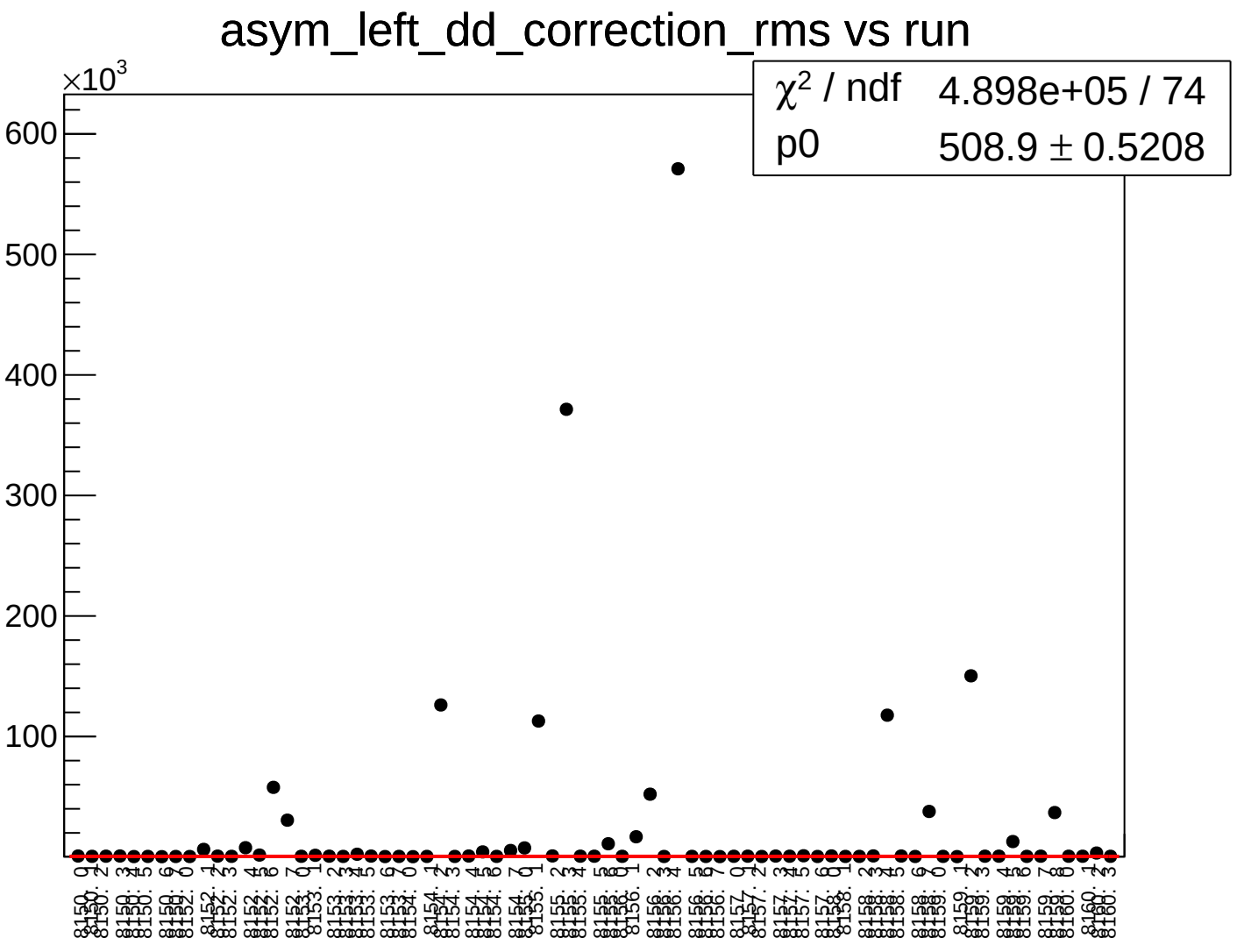

asym_left_avg_rms vs run
×10^3
900
800
700
600
500
400
300
200
100
χ² / ndf 2.018e+05 / 60
p0 1.767e+04 ± 18.1

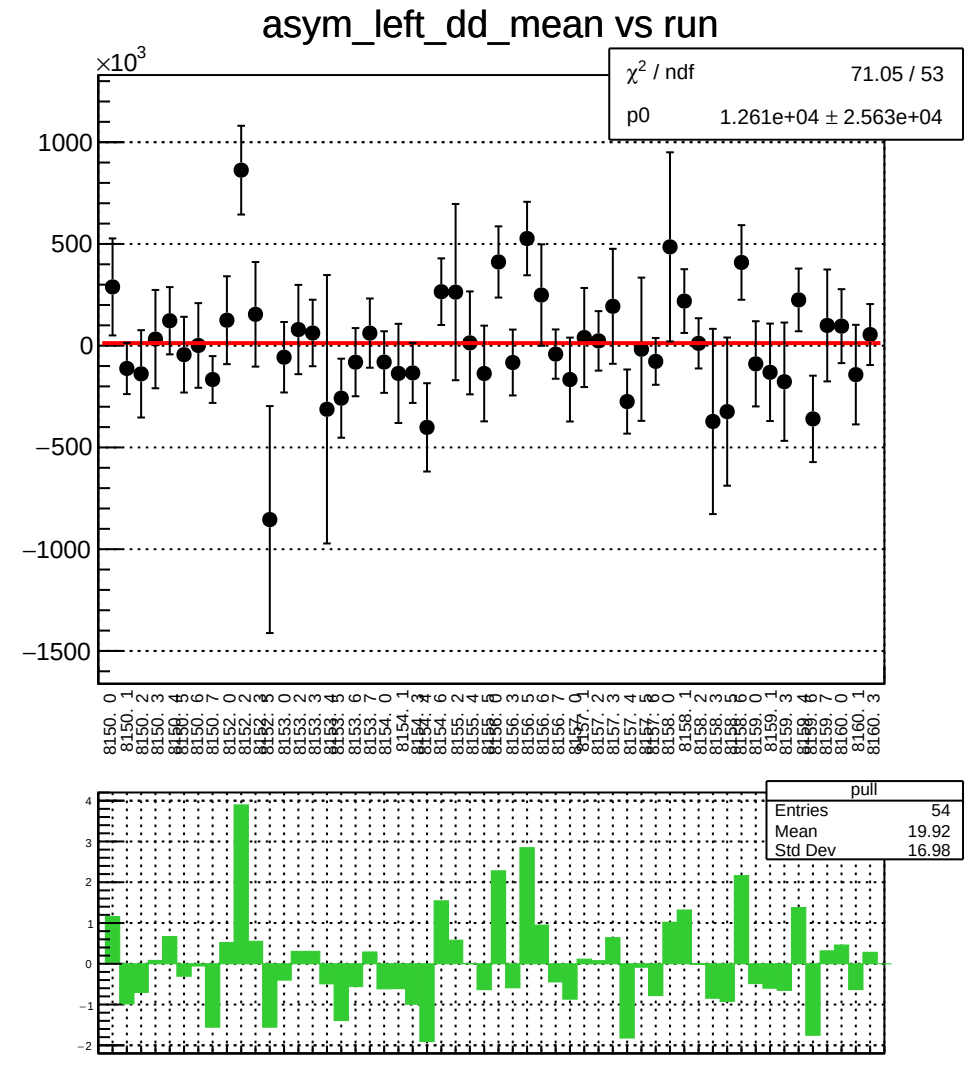

reg_asym_left_dd_mean vs run
×10^3
χ^2 / ndf 70.78 / 53
p0 1.121e+04 ± 2.561e+04
1000
500
0
−500
−1000
−1500
pull
Entries 54
Mean 27.81
Std Dev 12.64
4
3
2
1
0
−1
−2

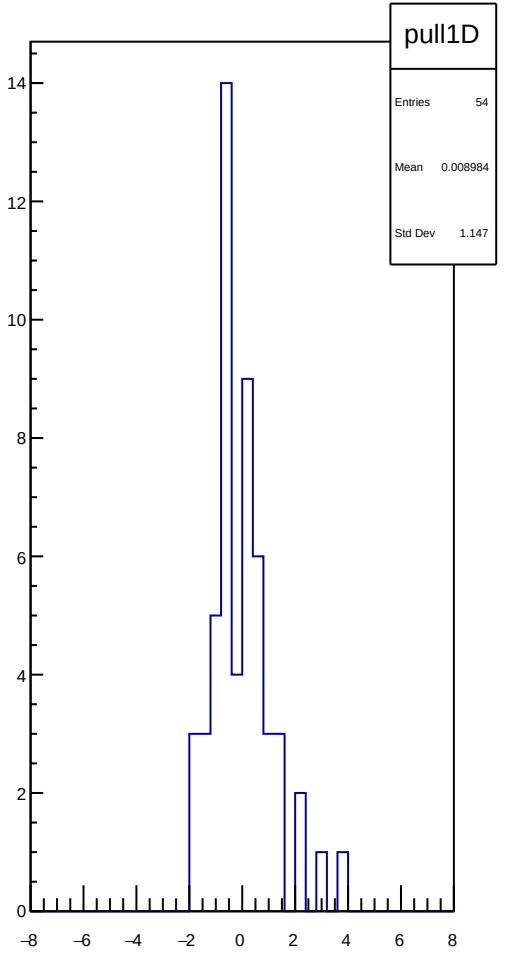

pull1D
Entries 54
Mean 0.008895
Std Dev 1.145
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

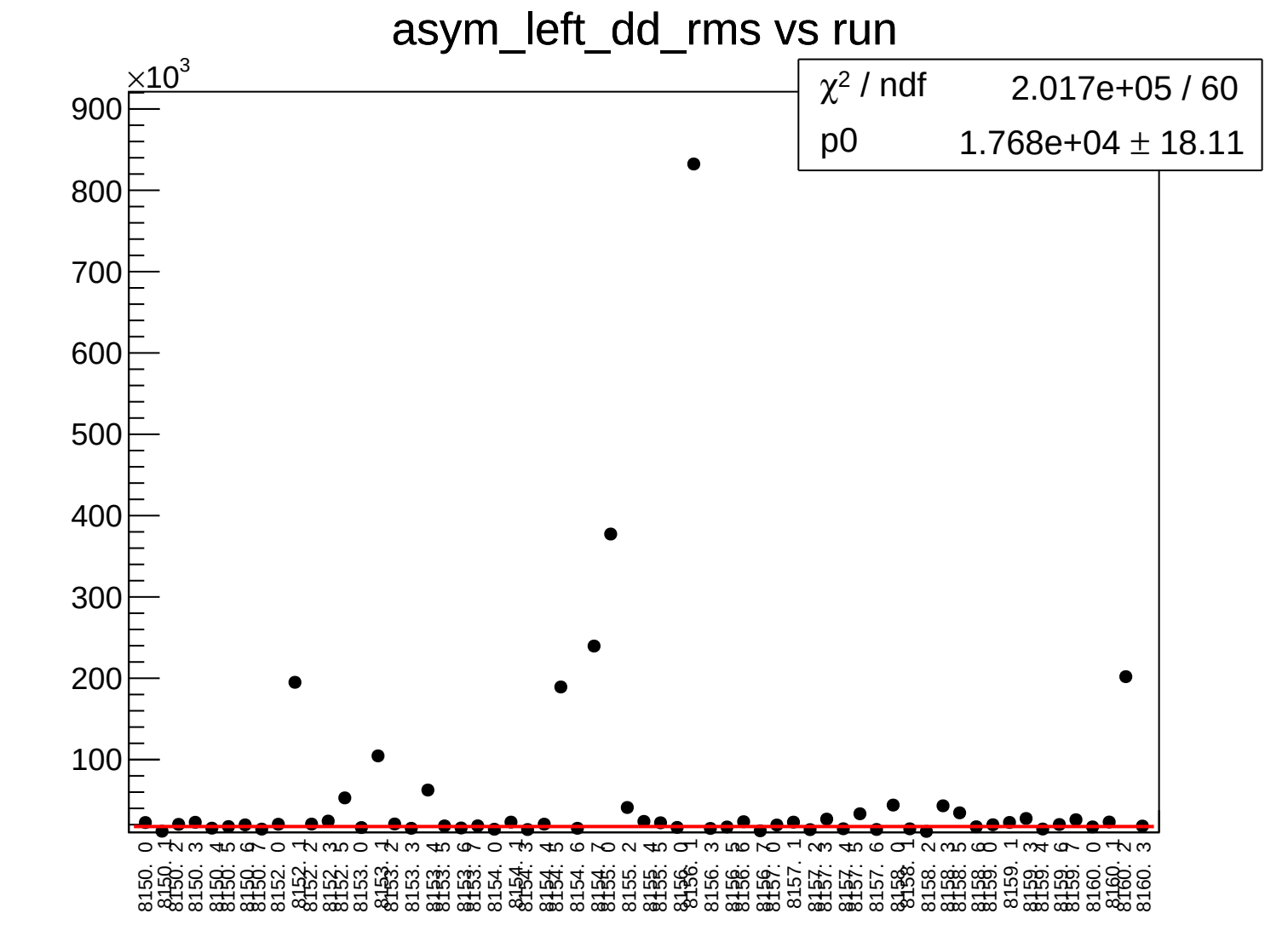

reg_asym_left_dd_rms vs run
×10^3
900
800
700
600
500
400
300
200
100
χ² / ndf 2.018e+05 / 60
p0 1.767e+04 ± 18.1

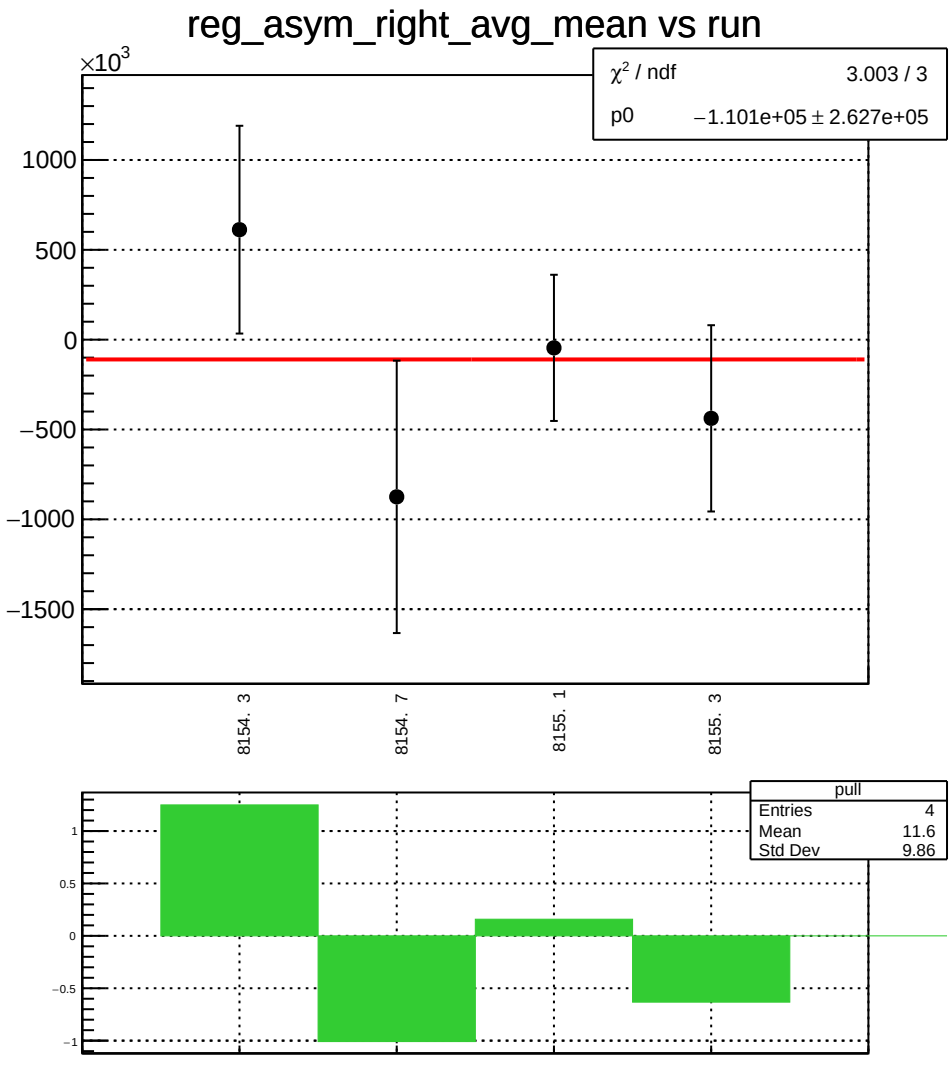

asym_left_dd_correction_mean vs run
×10^3
χ² / ndf 89.66 / 67
p0 −1575 ± 736.5
1500
1000
500
0
−500
−1000
pull
Entries 68
Mean 349.4
Std Dev 315
pull1D
Entries 68
Mean 0.009803
Std Dev 1.148

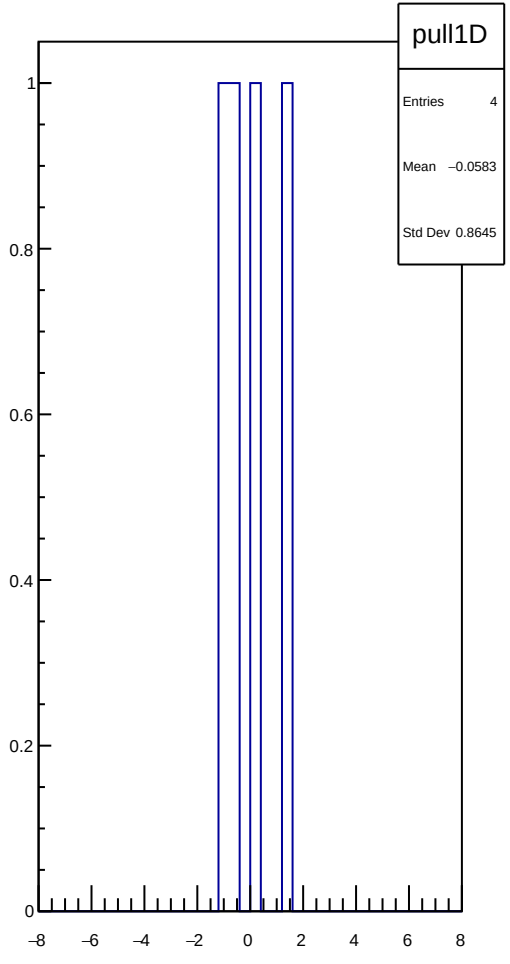

asym_left_dd_correction_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 4.898e+05 / 74
p0 508.9 ± 0.5208

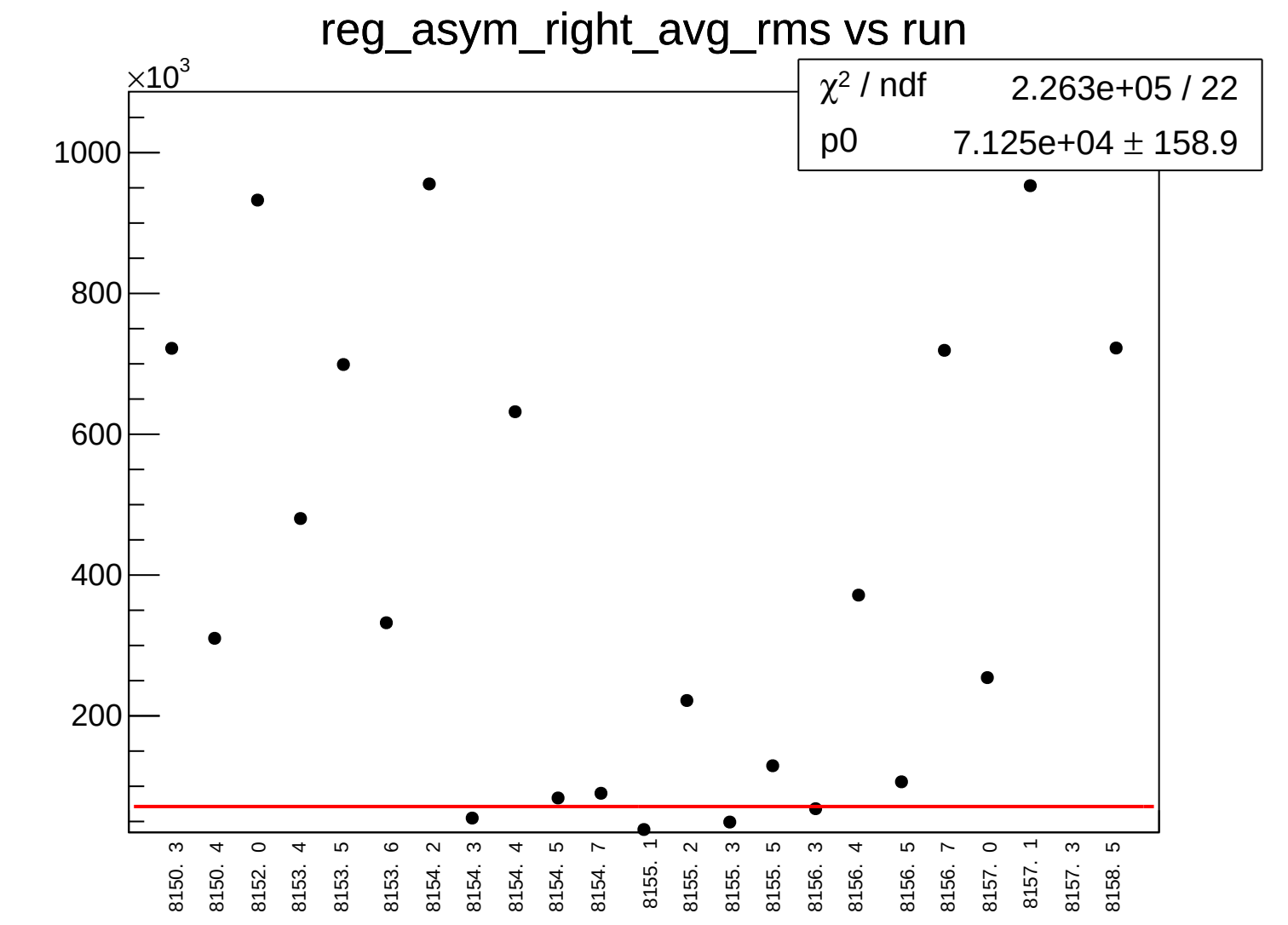

asym_left_dd_mean vs run
×10^3
χ² / ndf 71.05 / 53
p0 1.261e+04 ± 2.563e+04
1000
500
0
−500
−1000
−1500
pull
Entries 54
Mean 19.92
Std Dev 16.98
4
3
2
1
0
−1
−2

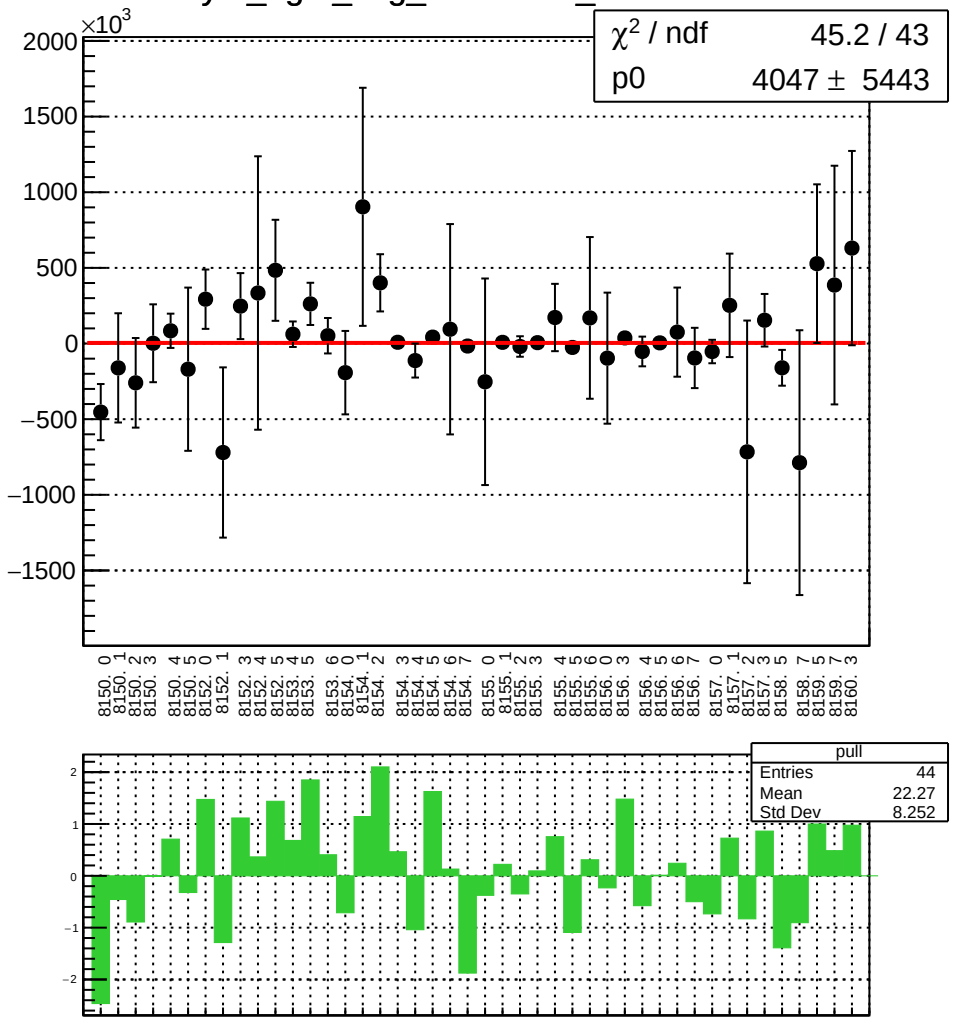

pull1D
Entries 54
Mean 0.008984
Std Dev 1.147
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

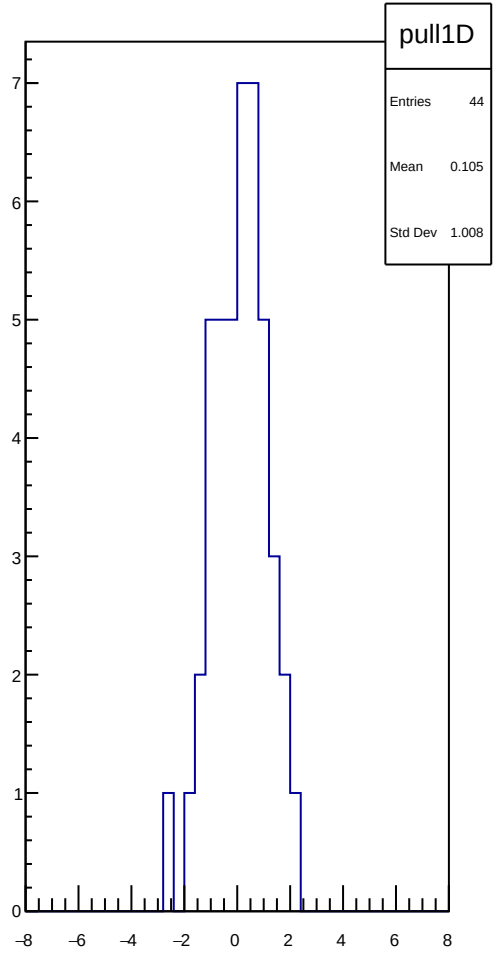

asym_left_dd_rms vs run
×10^3
900
800
700
600
500
400
300
200
100
χ² / ndf 2.017e+05 / 60
p0 1.768e+04 ± 18.11
8150. 0
8150. 1
8150. 2
8150. 3
8150. 4
8150. 5
8150. 6
8150. 7
8152. 0
8152. 1
8152. 2
8152. 3
8152. 5
8153. 0
8153. 1
8153. 2
8153. 3
8153. 4
8153. 5
8153. 6
8153. 7
8154. 0
8154. 1
8154. 3
8154. 4
8154. 5
8154. 6
8154. 7
8155. 0
8155. 2
8155. 3
8155. 4
8155. 5
8156. 1
8156. 3
8156. 5
8156. 6
8156. 7
8157. 0
8157. 1
8157. 2
8157. 3
8157. 4
8157. 5
8157. 6
8158. 1
8158. 2
8158. 3
8158. 5
8158. 6
8158. 7
8159. 1
8159. 3
8159. 4
8159. 6
8159. 7
8160. 0
8160. 1
8160. 2
8160. 3

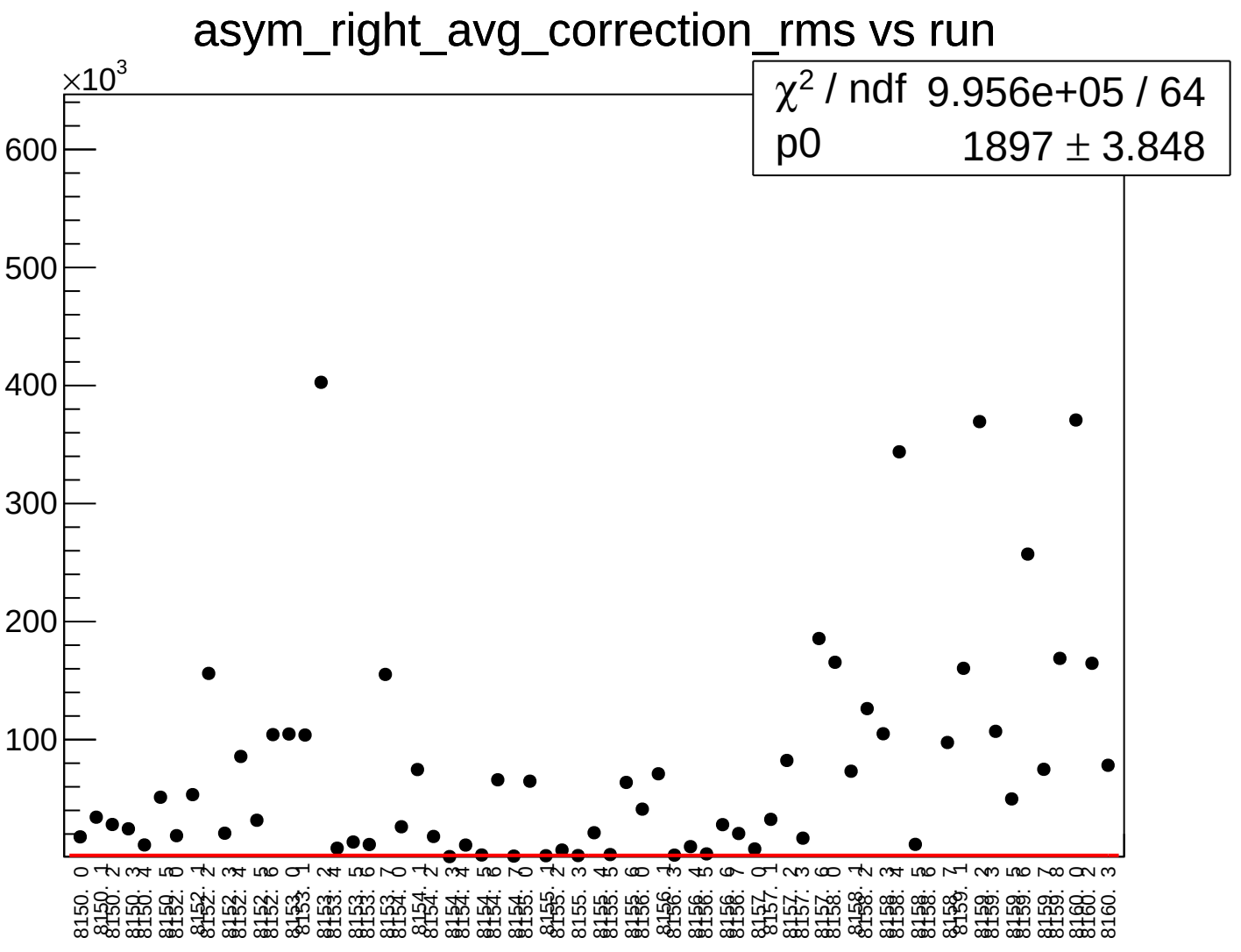

reg_asym_right_avg_mean vs run
×10^3
χ² / ndf 3.003 / 3
p0 −1.101e+05 ± 2.627e+05
1000
500
0
−500
−1000
−1500
8154. 3
8154. 7
8155. 1
8155. 3
pull
Entries 4
Mean 11.6
Std Dev 9.86
1
0.5
0
−0.5
−1

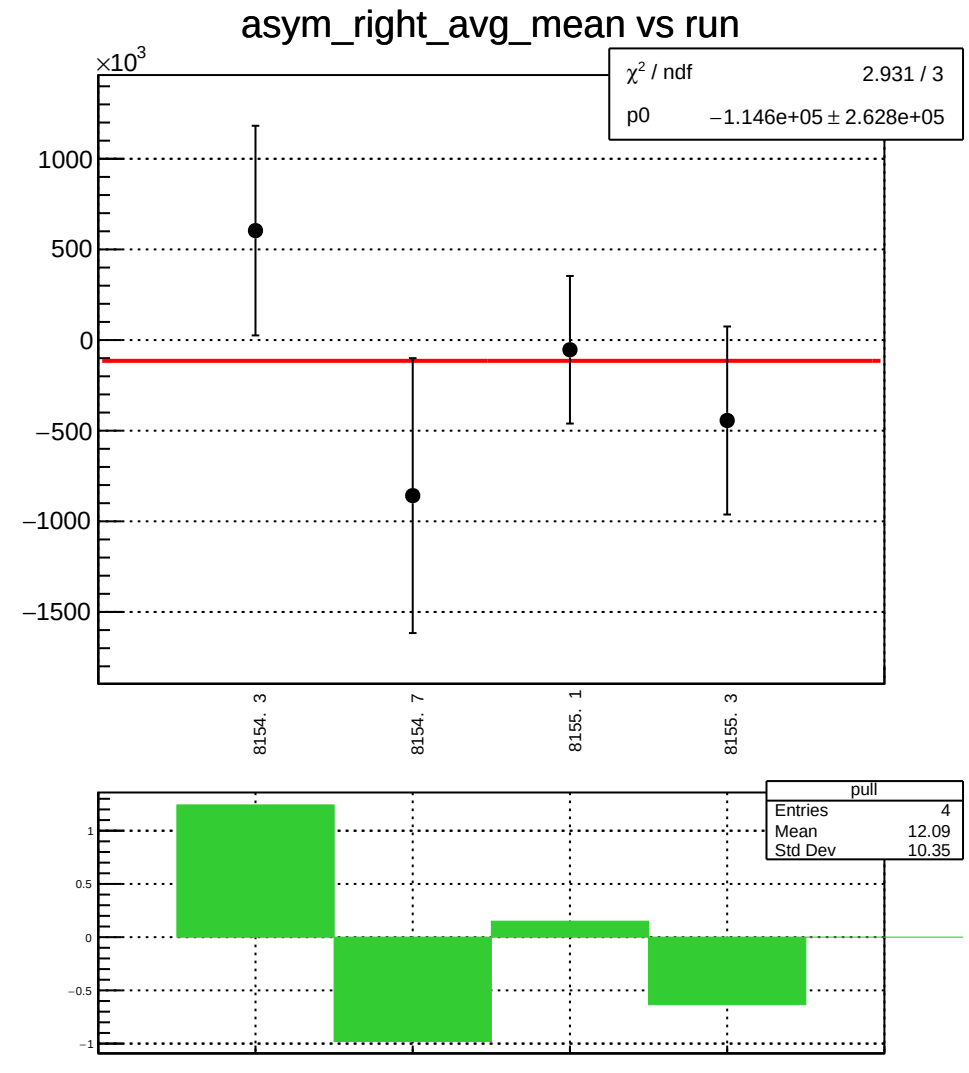

pull1D
Entries 4
Mean −0.0583
Std Dev 0.8645
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

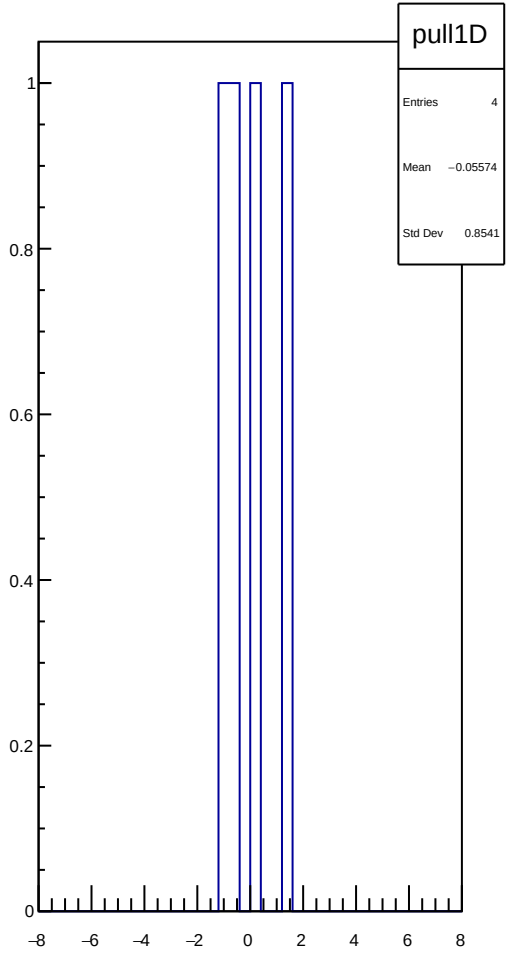

reg_asym_right_avg_rms vs run
×10^3
χ² / ndf 2.263e+05 / 22
p0 7.125e+04 ± 158.9
1000
800
600
400
200
8150. 3
8150. 4
8152. 0
8153. 4
8153. 5
8153. 6
8154. 2
8154. 3
8154. 4
8154. 5
8154. 7
8155. 1
8155. 2
8155. 3
8155. 5
8156. 3
8156. 4
8156. 5
8156. 7
8157. 0
8157. 1
8157. 3
8158. 5

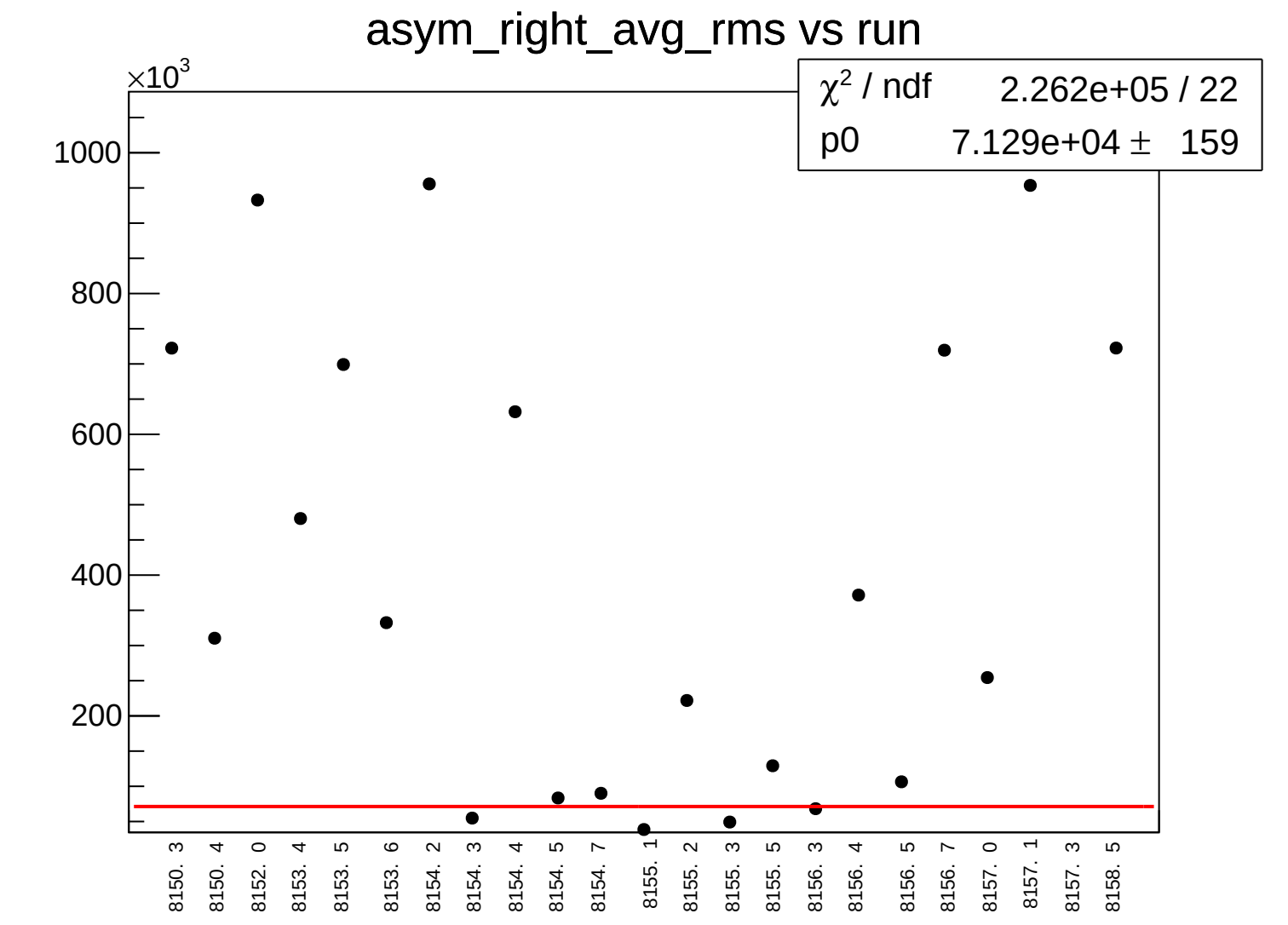

asym_right_avg_correction_mean vs run
×10^3
χ^2 / ndf 45.2 / 43
p0 4047 ± 5443
2000
1500
1000
500
0
−500
−1000
−1500
8150. 0
8150. 1
8150. 2
8150. 3
8150. 4
8150. 5
8152. 0
8152. 1
8152. 3
8152. 4
8152. 5
8153. 4
8153. 5
8153. 6
8154. 0
8154. 1
8154. 2
8154. 3
8154. 4
8154. 5
8154. 6
8154. 7
8155. 0
8155. 1
8155. 2
8155. 3
8155. 4
8155. 5
8155. 6
8156. 0
8156. 3
8156. 4
8156. 5
8156. 6
8156. 7
8157. 0
8157. 1
8157. 2
8157. 3
8158. 5
8158. 7
8159. 5
8159. 7
8160. 3
pull
Entries 44
Mean 22.27
Std Dev 8.252
2
1
0
−1
−2

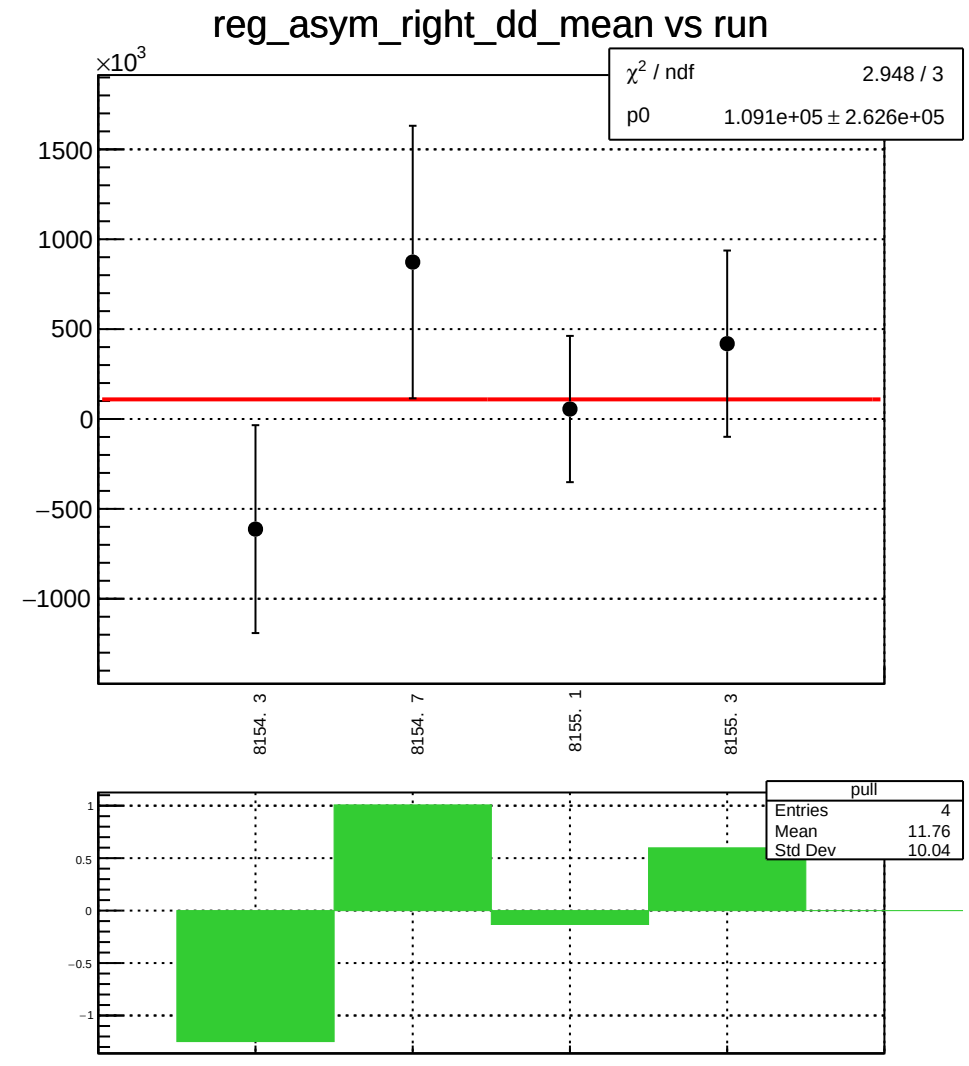

pull1D
Entries 44
Mean 0.105
Std Dev 1.008
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

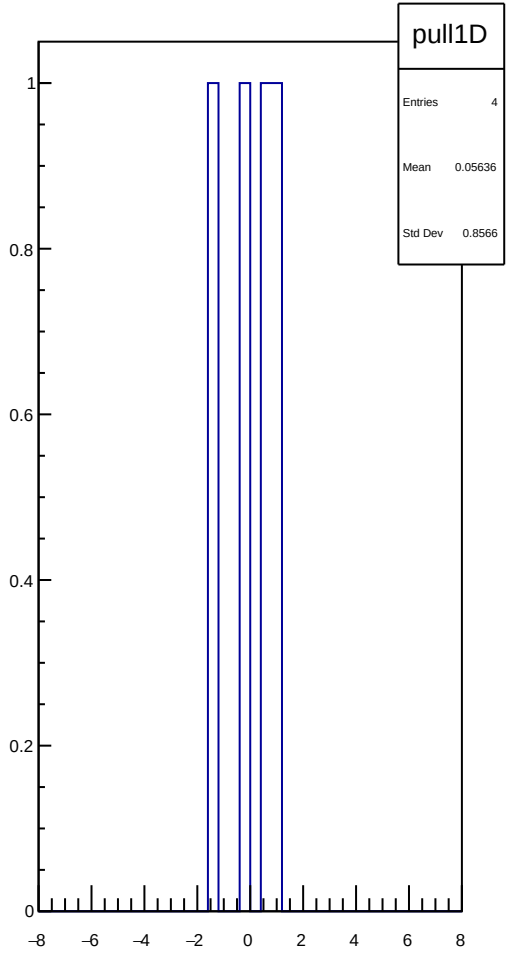

asym_right_avg_correction_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 9.956e+05 / 64
p0 1897 ± 3.848

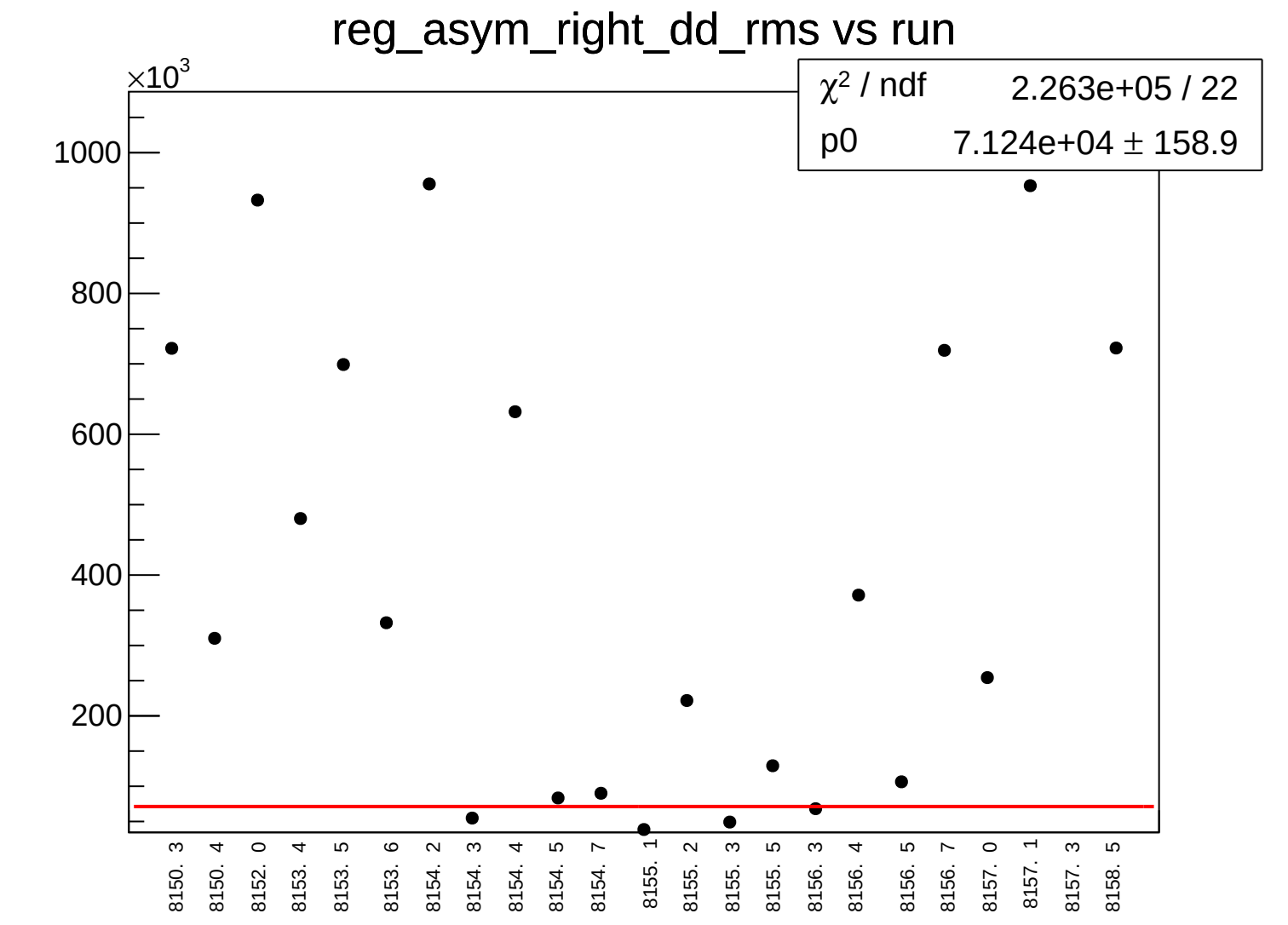

asym_right_avg_mean vs run
×10^3
χ² / ndf 2.931 / 3
p0 −1.146e+05 ± 2.628e+05
1000
500
0
−500
−1000
−1500
8154. 3
8154. 7
8155. 1
8155. 3
pull
Entries 4
Mean 12.09
Std Dev 10.35
1
0.5
0
−0.5
−1

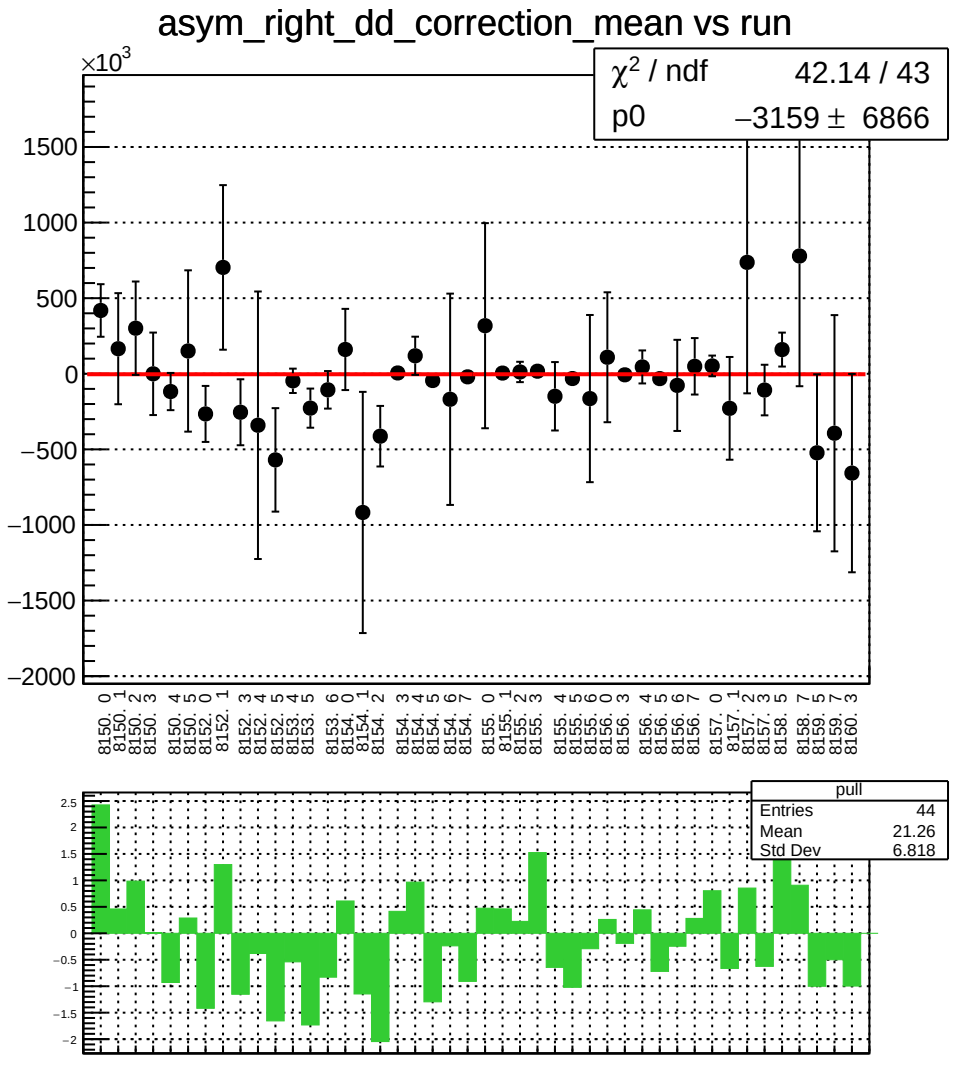

pull1D
Entries 4
Mean −0.05574
Std Dev 0.8541
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

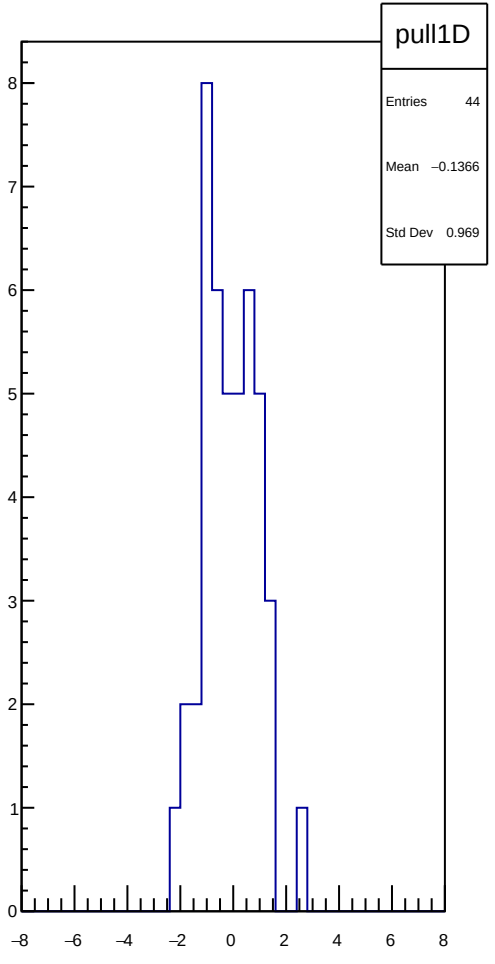

asym_right_avg_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 2.262e+05 / 22
p0 7.129e+04 ± 159
8150. 3
8150. 4
8152. 0
8153. 4
8153. 5
8153. 6
8154. 2
8154. 3
8154. 4
8154. 5
8154. 7
8155. 1
8155. 2
8155. 3
8155. 5
8156. 3
8156. 4
8156. 5
8156. 7
8157. 0
8157. 1
8157. 3
8158. 5

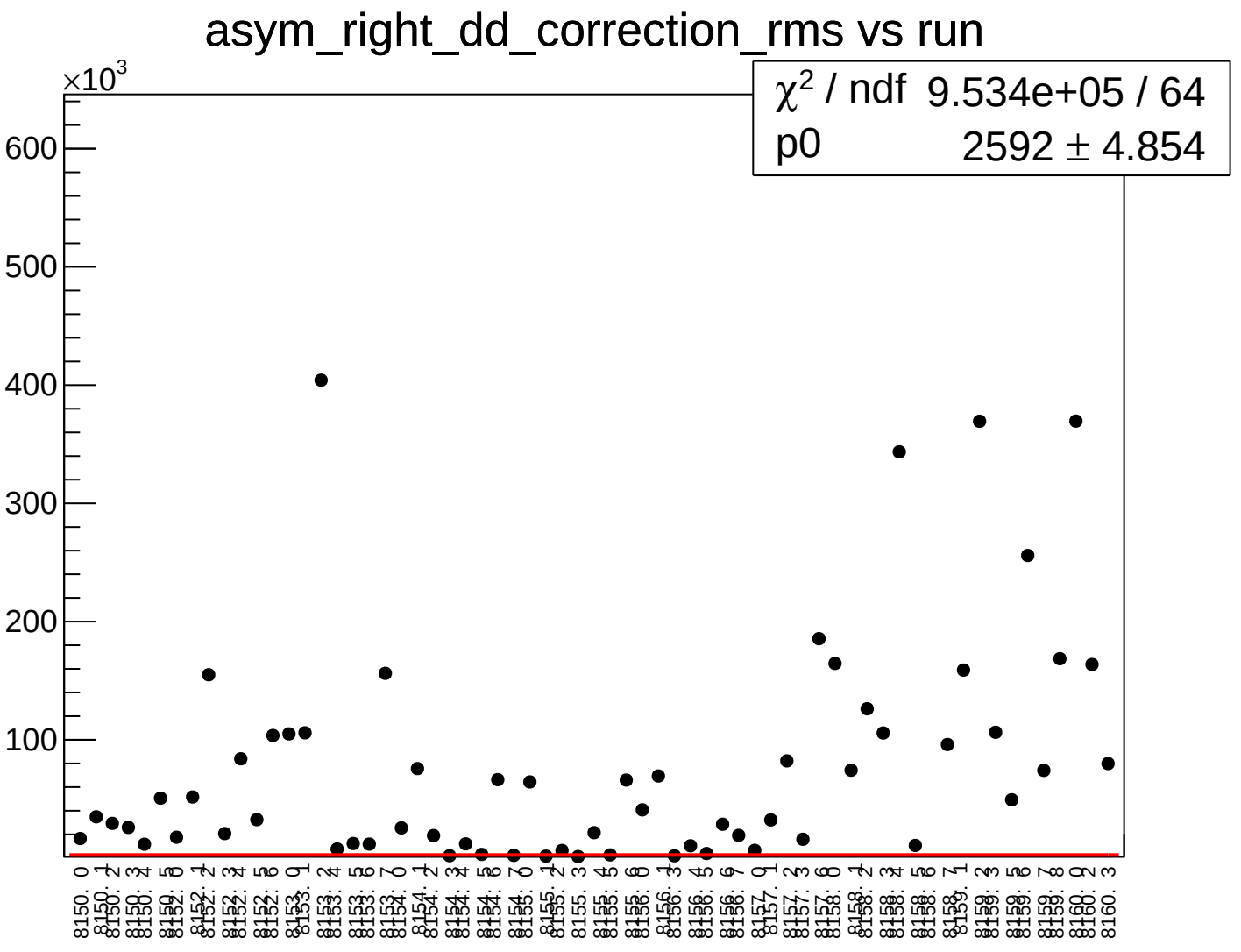

reg_asym_right_dd_mean vs run
×10^3
χ² / ndf 2.948 / 3
p0 1.091e+05 ± 2.626e+05
1500
1000
500
0
−500
−1000
8154. 3
8154. 7
8155. 1
8155. 3
pull
Entries 4
Mean 11.76
Std Dev 10.04
1
0.5
0
−0.5
−1

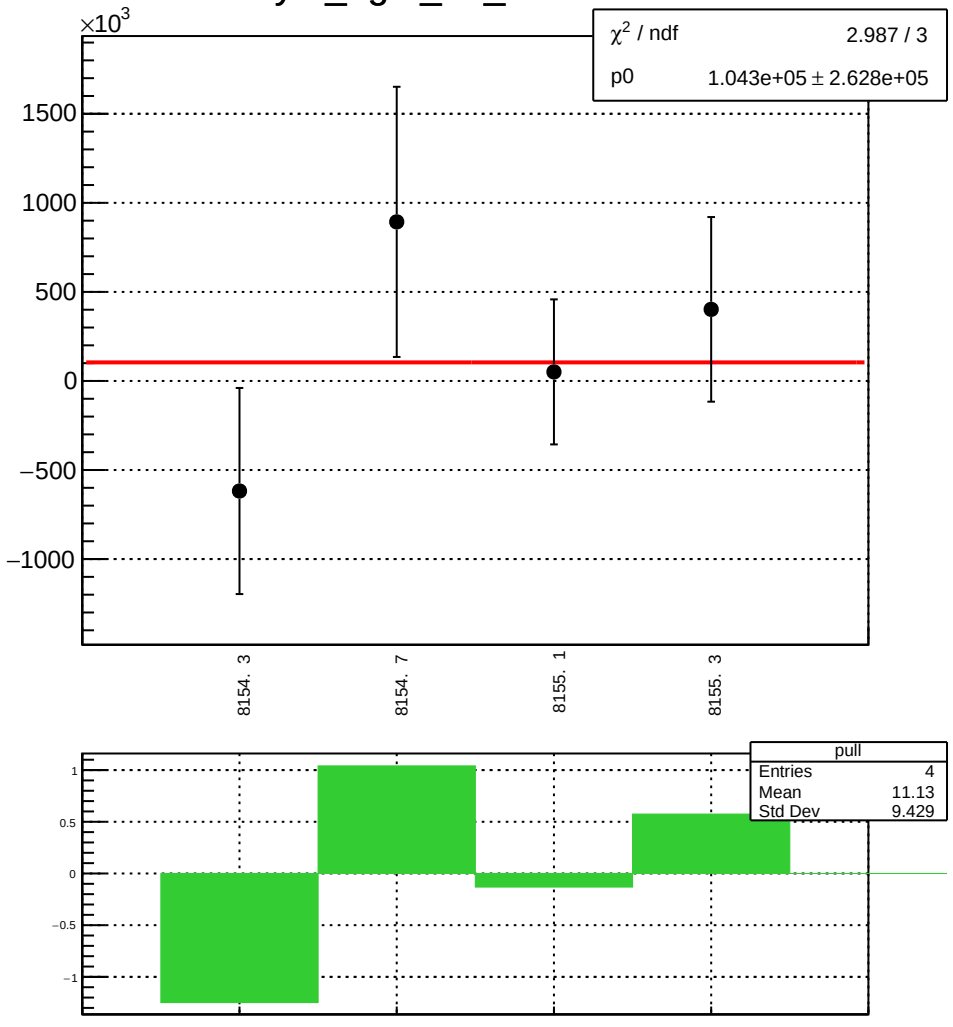

pull1D
Entries 4
Mean 0.05636
Std Dev 0.8566
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

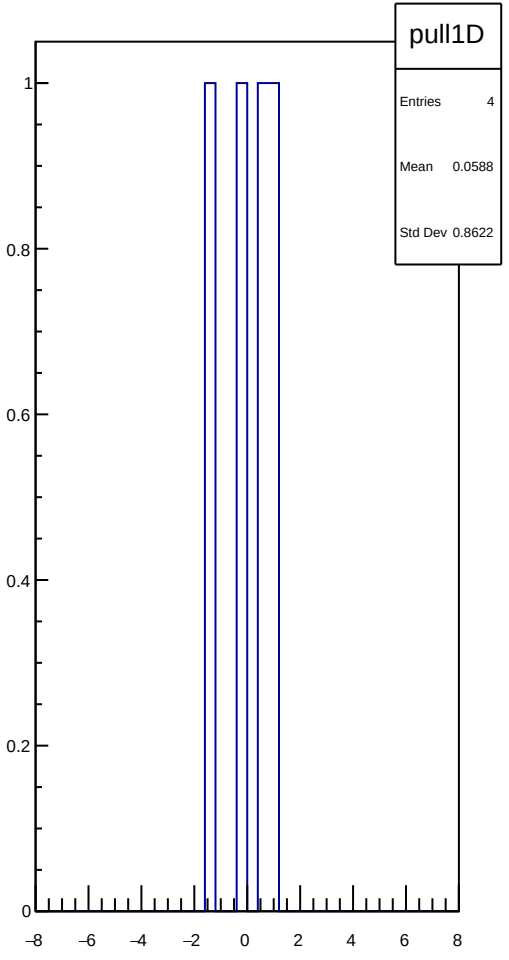

reg_asym_right_dd_rms vs run
×10^3
χ^2 / ndf 2.263e+05 / 22
p0 7.124e+04 ± 158.9
1000
800
600
400
200
8150. 3
8150. 4
8152. 0
8153. 4
8153. 5
8153. 6
8154. 2
8154. 3
8154. 4
8154. 5
8154. 7
8155. 1
8155. 2
8155. 3
8155. 5
8156. 3
8156. 4
8156. 5
8156. 7
8157. 0
8157. 1
8157. 3
8158. 5

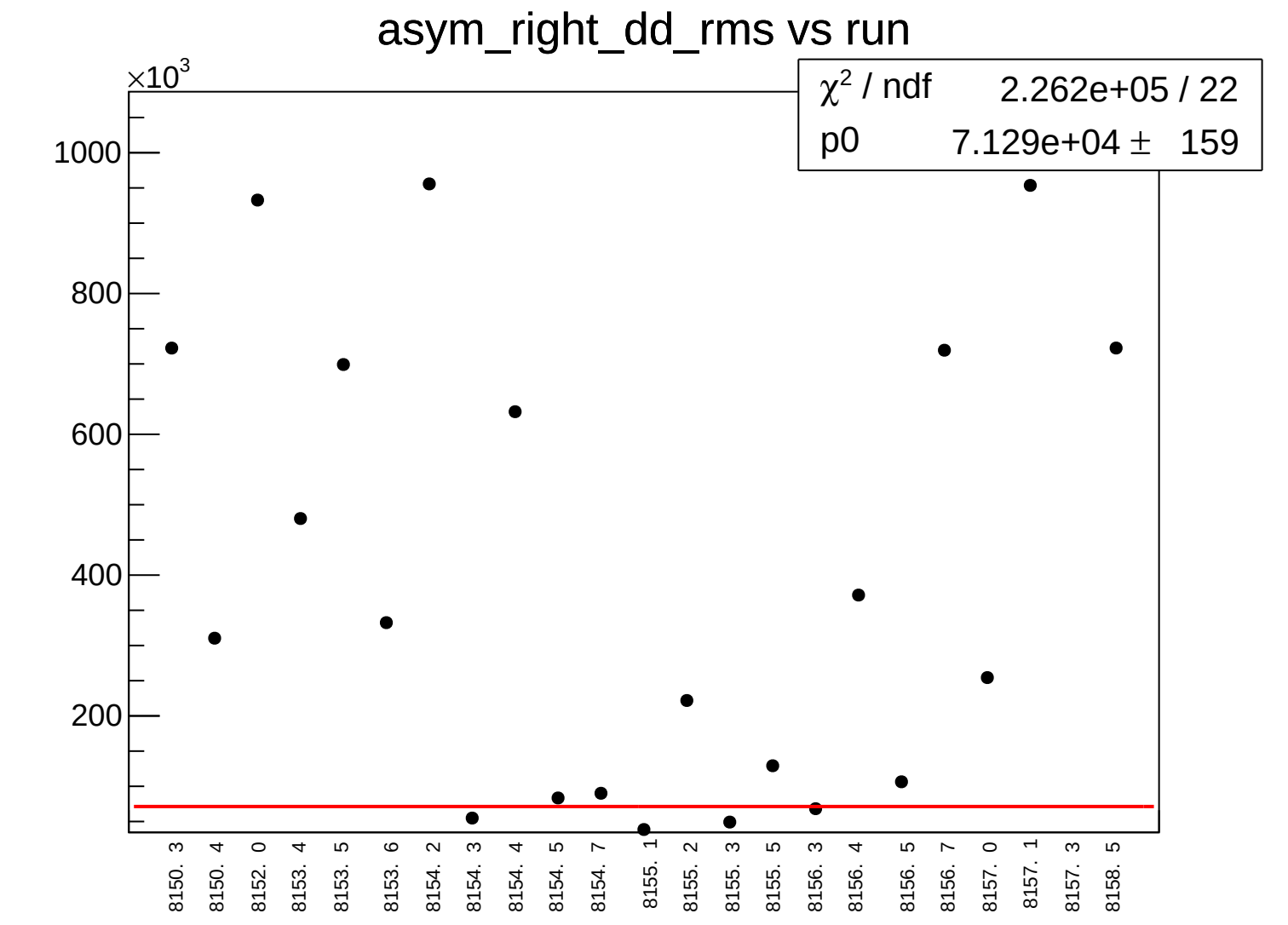

asym_right_dd_correction_mean vs run
χ² / ndf 42.14 / 43
p0 −3159 ± 6866
×10³
1500
1000
500
0
−500
−1000
−1500
−2000
8150. 0
8150. 1
8150. 2
8150. 3
8150. 4
8150. 5
8152. 0
8152. 1
8152. 3
8152. 4
8152. 5
8153. 4
8153. 5
8153. 6
8154. 0
8154. 1
8154. 2
8154. 3
8154. 4
8154. 5
8154. 6
8154. 7
8155. 0
8155. 1
8155. 2
8155. 3
8155. 4
8155. 5
8155. 6
8156. 0
8156. 3
8156. 4
8156. 5
8156. 6
8156. 7
8157. 0
8157. 1
8157. 2
8157. 3
8158. 5
8158. 7
8159. 5
8159. 7
8160. 3
pull
Entries 44
Mean 21.26
Std Dev 6.818
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

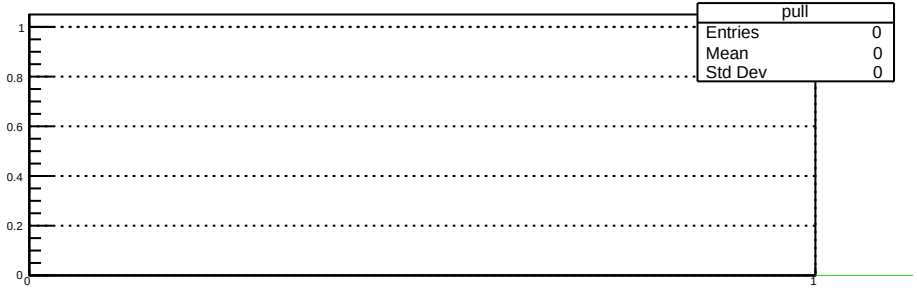

pull1D
Entries 44
Mean −0.1366
Std Dev 0.969
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

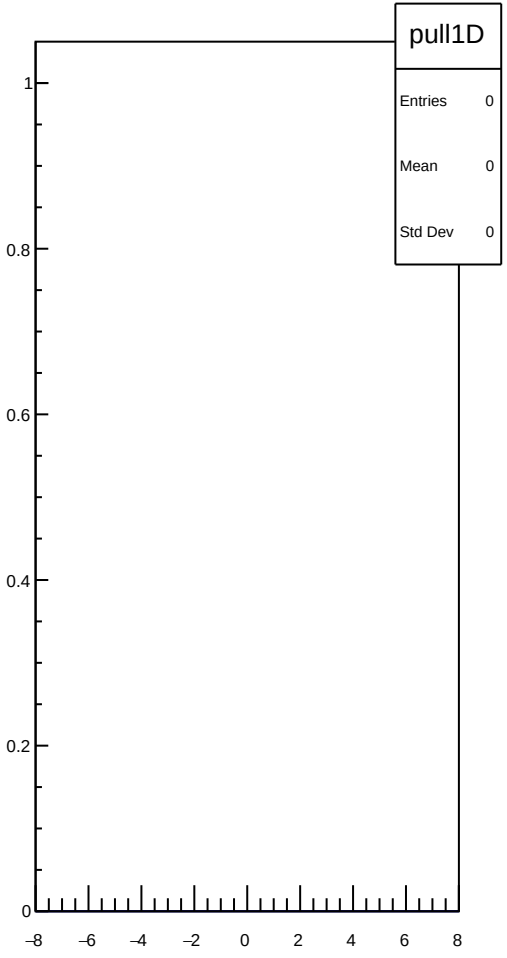

asym_right_dd_correction_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 9.534e+05 / 64
p0 2592 ± 4.854

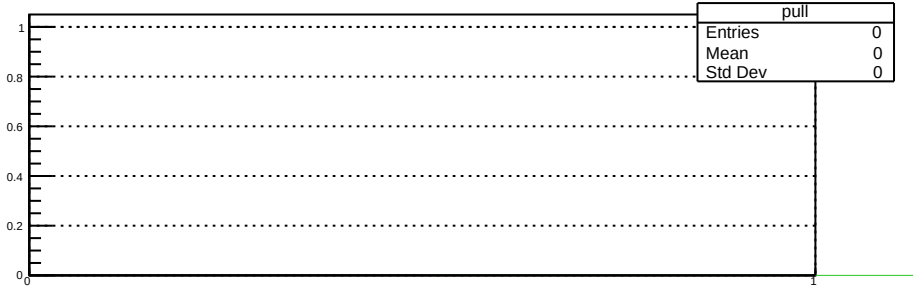

asym_right_dd_mean vs run
×10^3
χ² / ndf 2.987 / 3
p0 1.043e+05 ± 2.628e+05
1500
1000
500
0
−500
−1000
8154. 3
8154. 7
8155. 1
8155. 3
pull
Entries 4
Mean 11.13
Std Dev 9.429
1
0.5
0
−0.5
−1

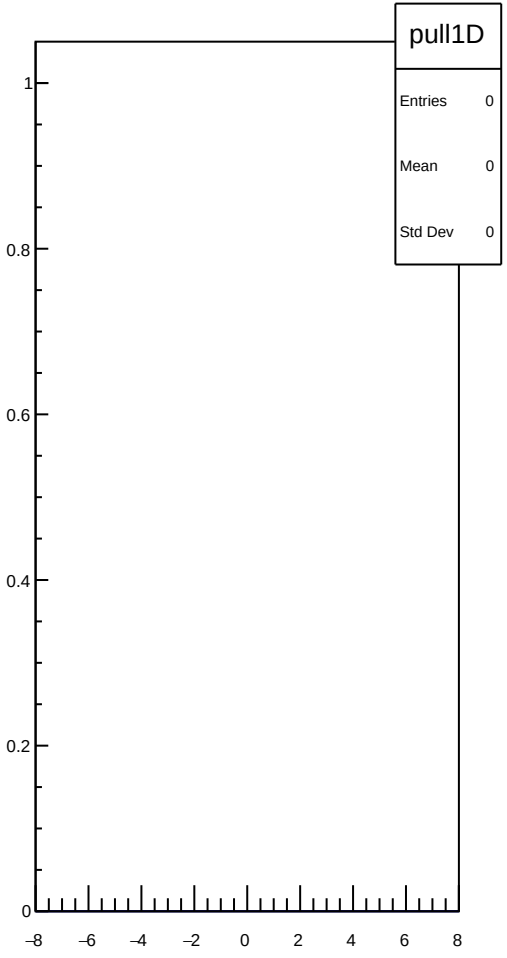

pull1D
Entries 4
Mean 0.0588
Std Dev 0.8622
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

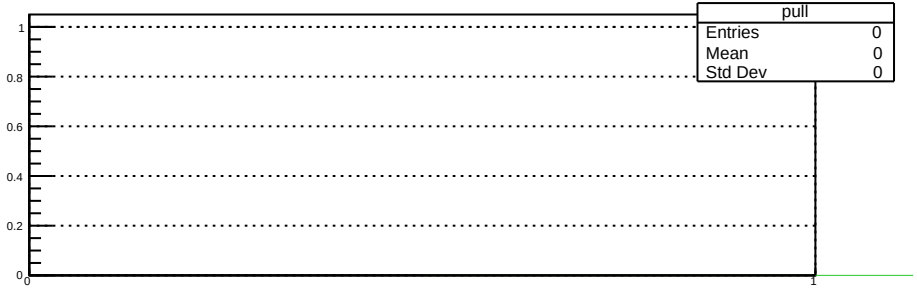

asym_right_dd_rms vs run
×10^3
χ^2 / ndf 2.262e+05 / 22
p0 7.129e+04 ± 159
1000
800
600
400
200
8150. 3
8150. 4
8152. 0
8153. 4
8153. 5
8153. 6
8154. 2
8154. 3
8154. 4
8154. 5
8154. 7
8155. 1
8155. 2
8155. 3
8155. 5
8156. 3
8156. 4
8156. 5
8156. 7
8157. 0
8157. 1
8157. 3
8158. 5

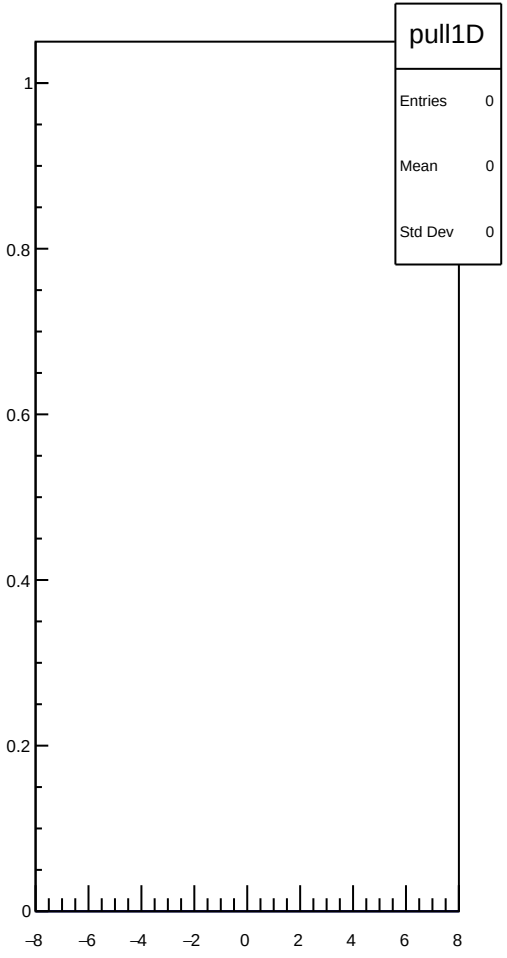

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

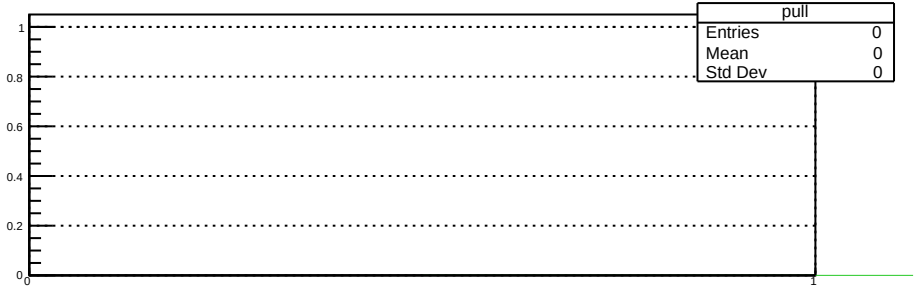

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

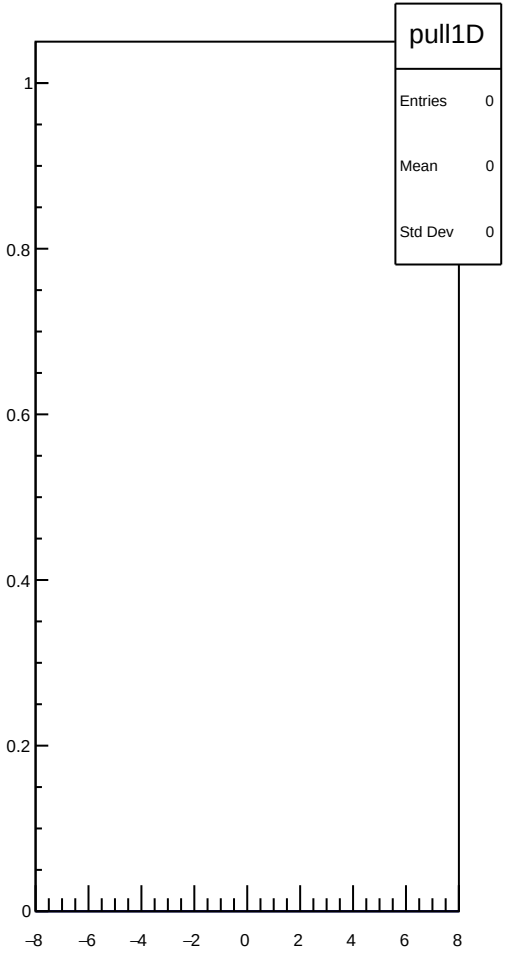

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

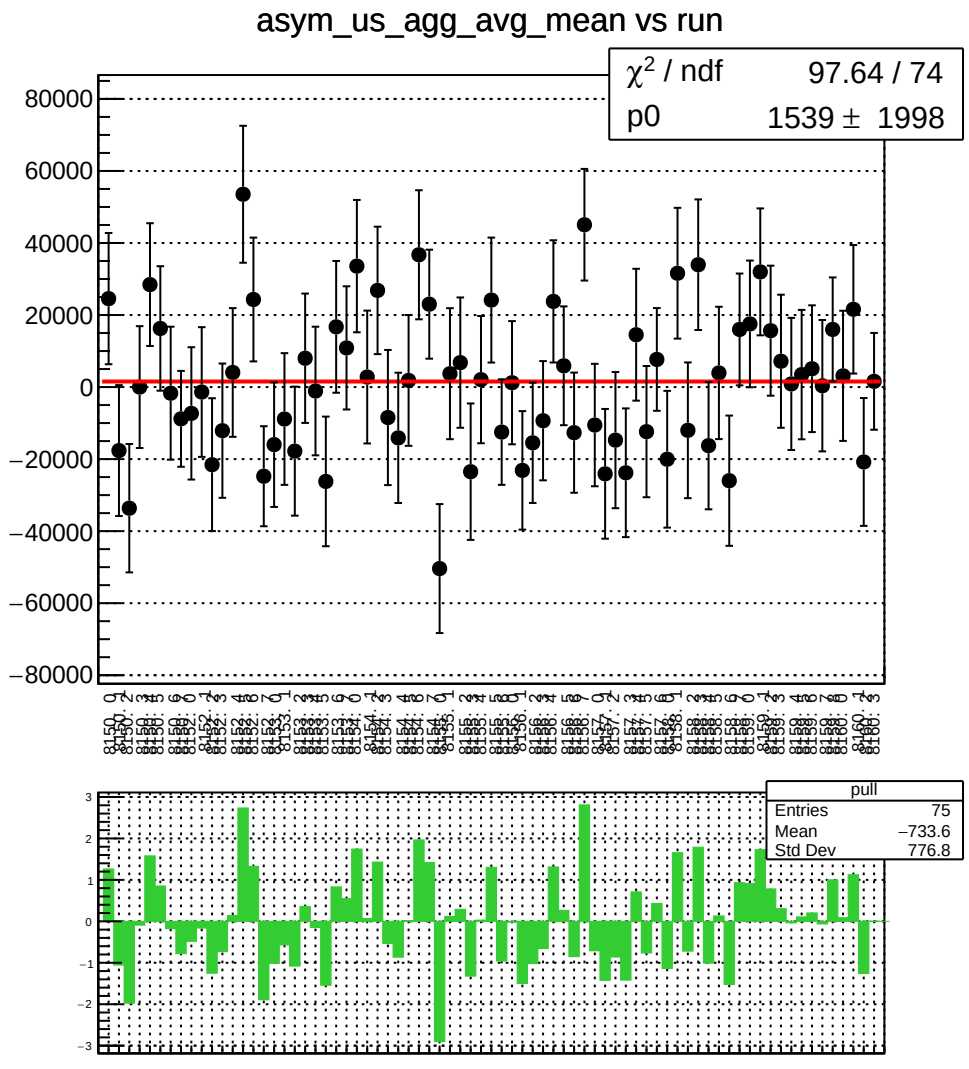

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

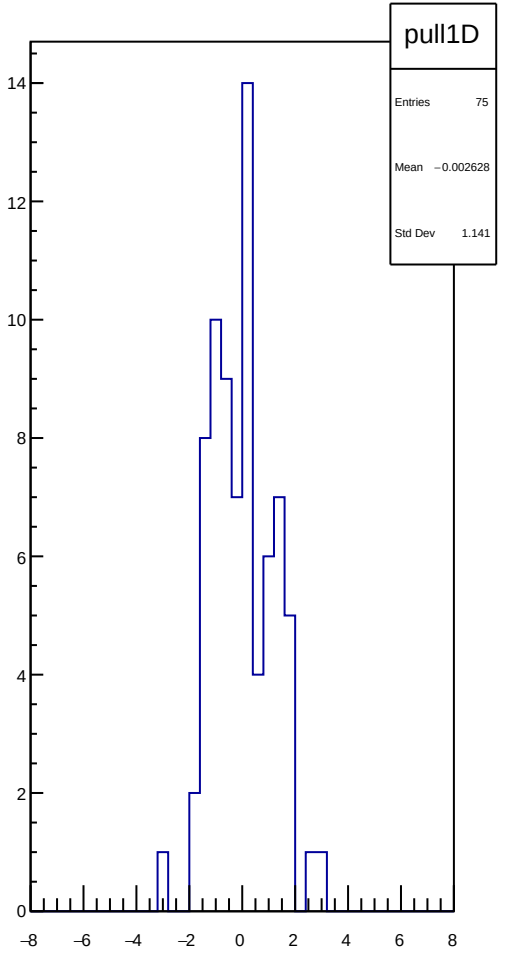

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

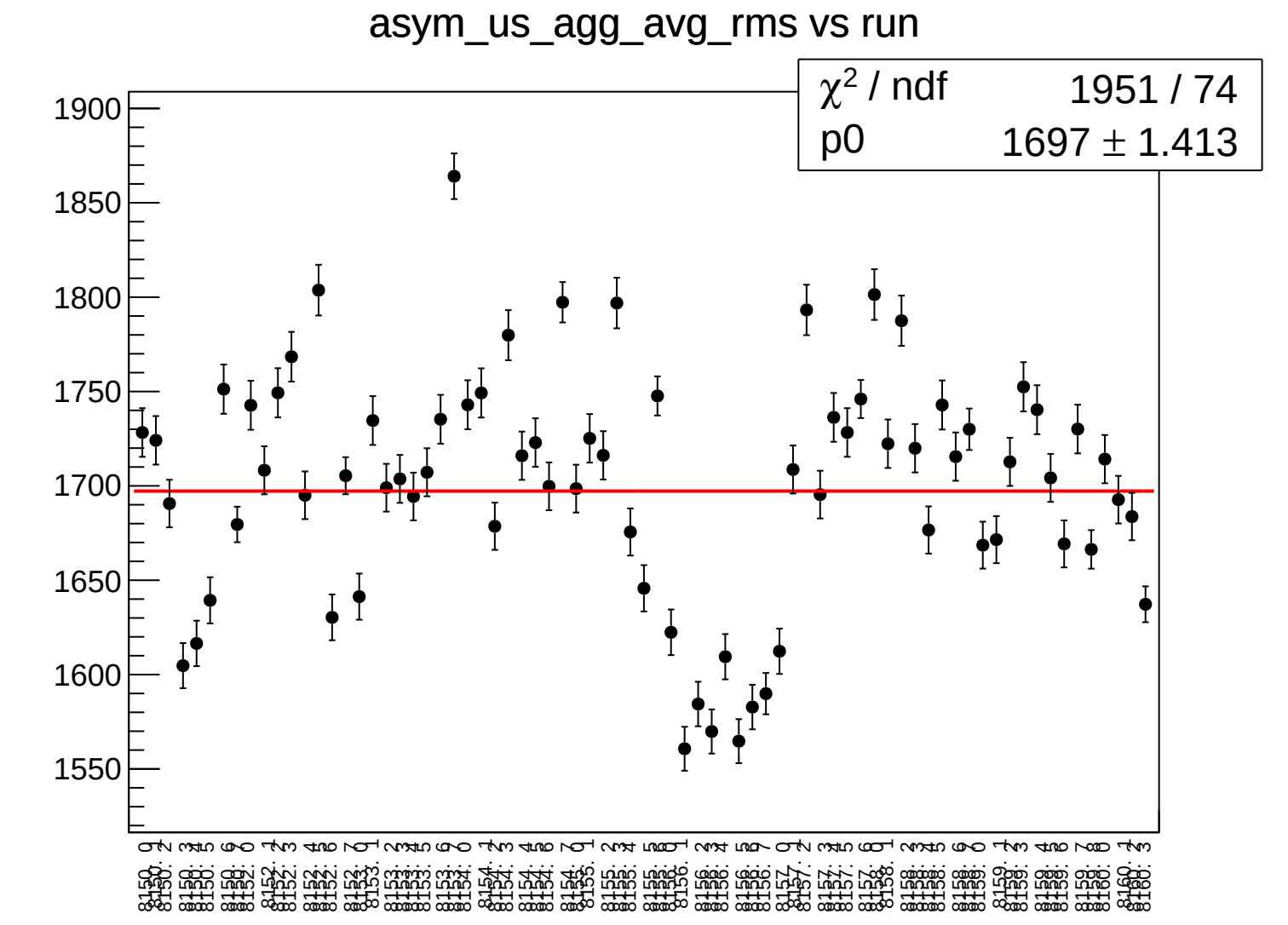

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

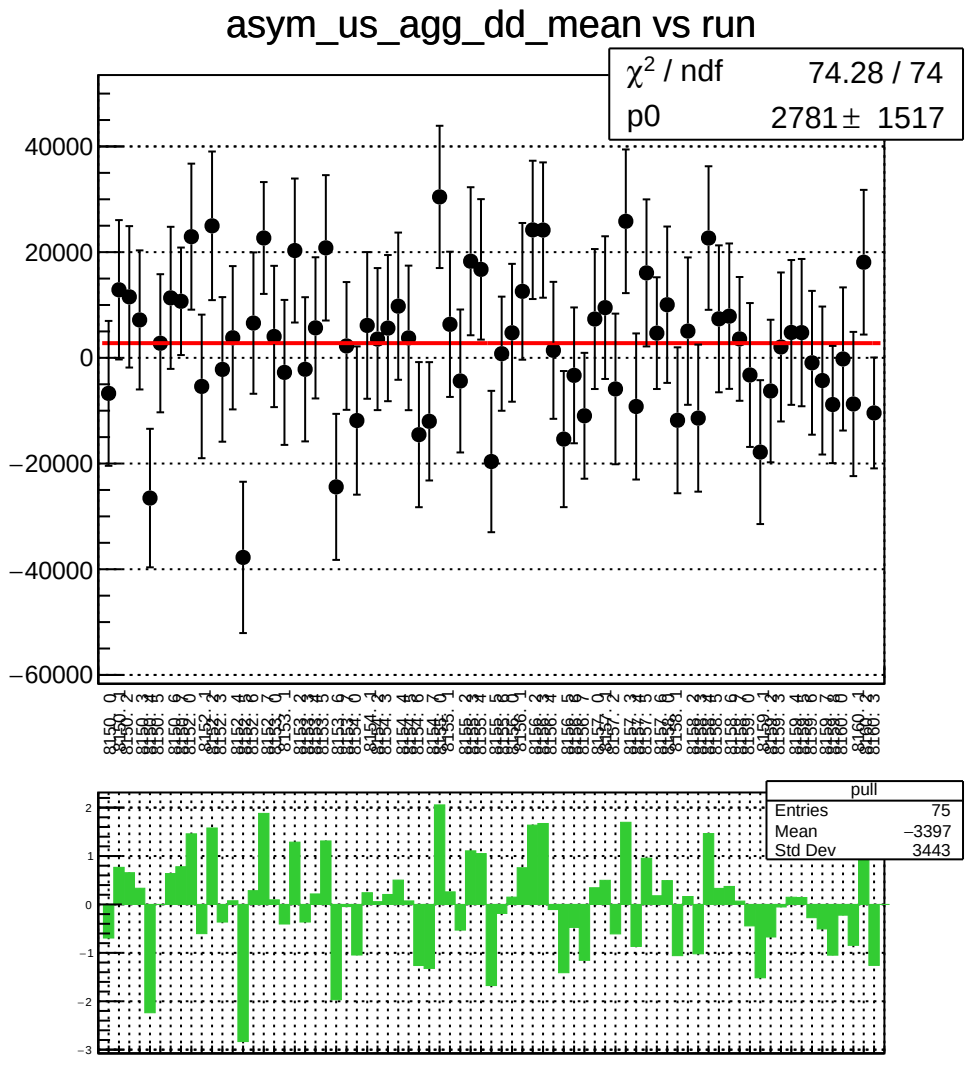

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

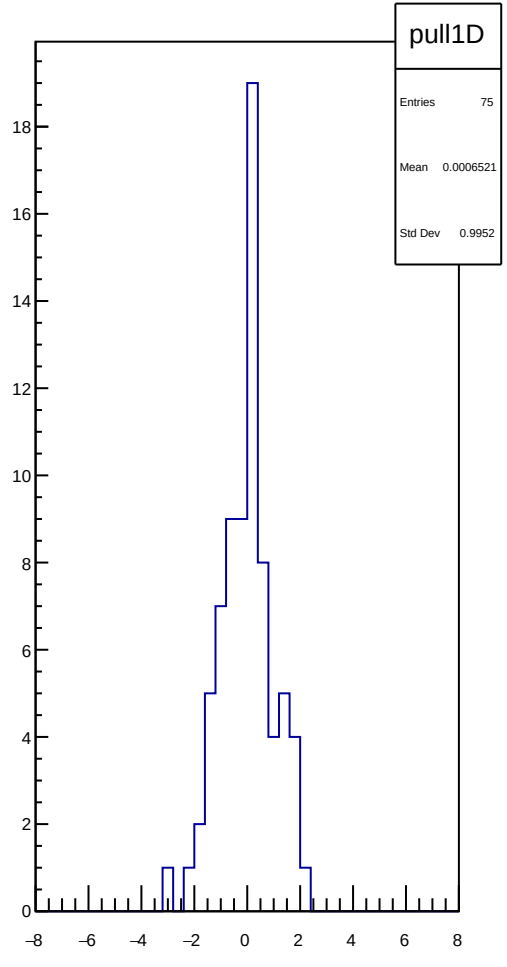

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

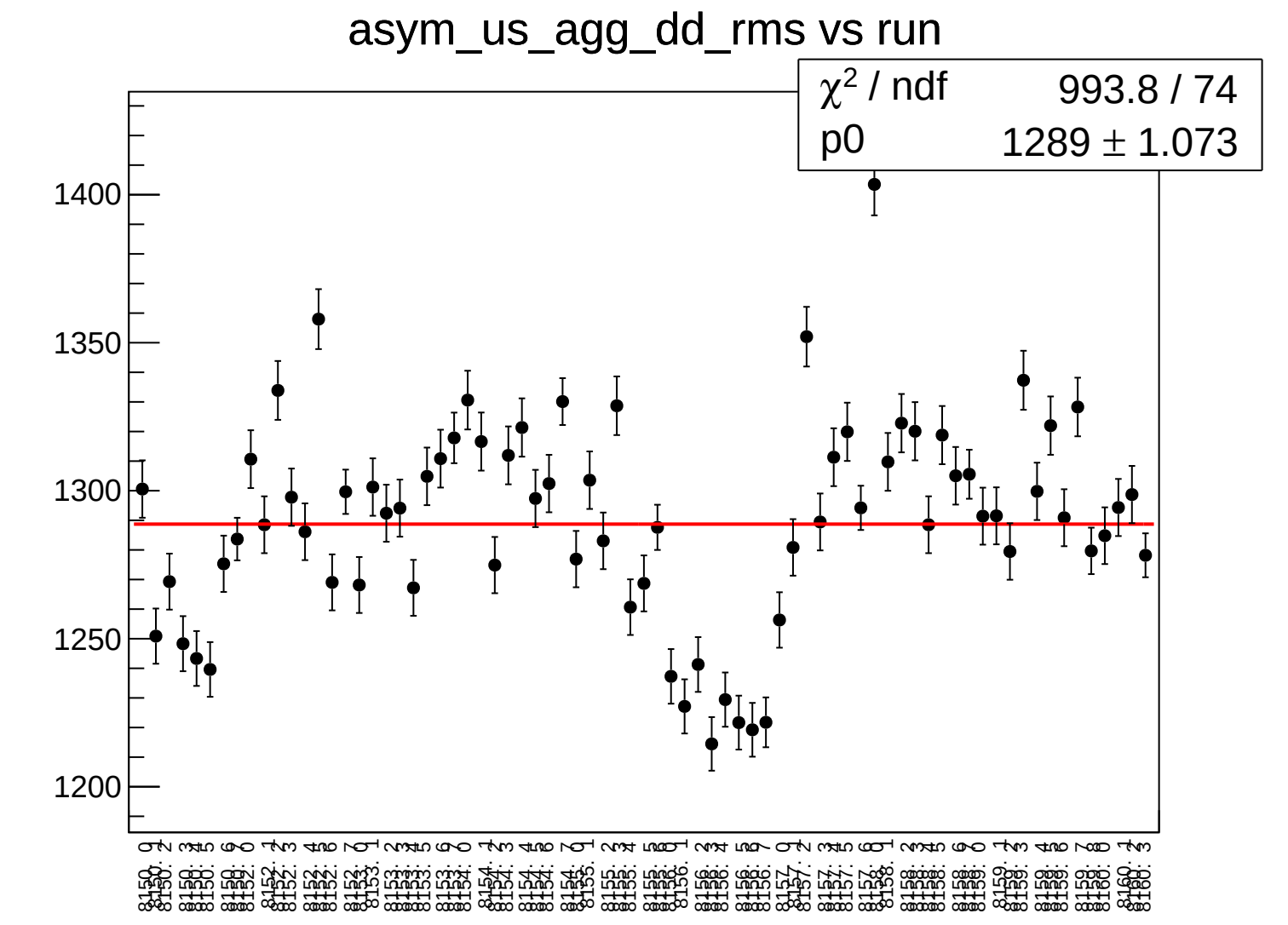

asym_us_agg_avg_mean vs run
χ² / ndf 97.64 / 74
p0 1539 ± 1998
pull
Entries 75
Mean −733.6
Std Dev 776.8

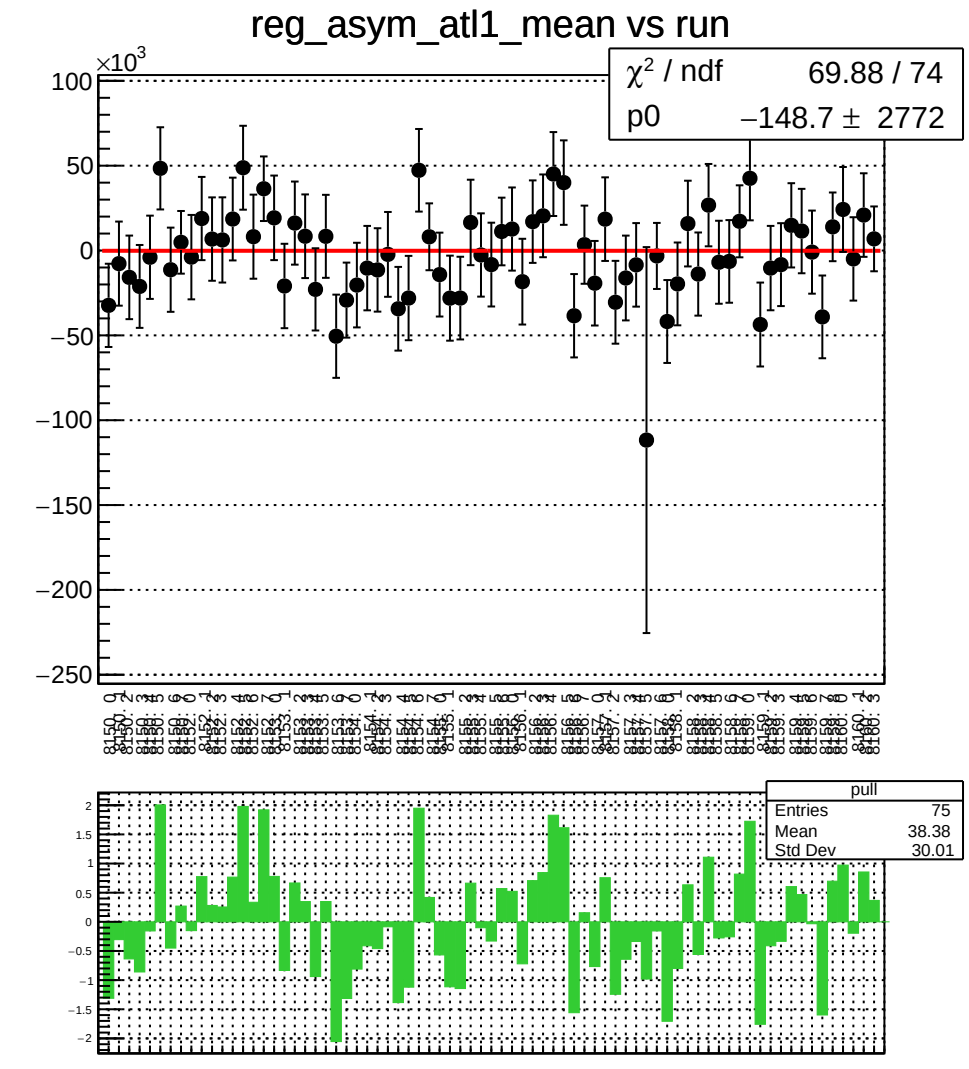

pull1D
Entries 75
Mean −0.002628
Std Dev 1.141

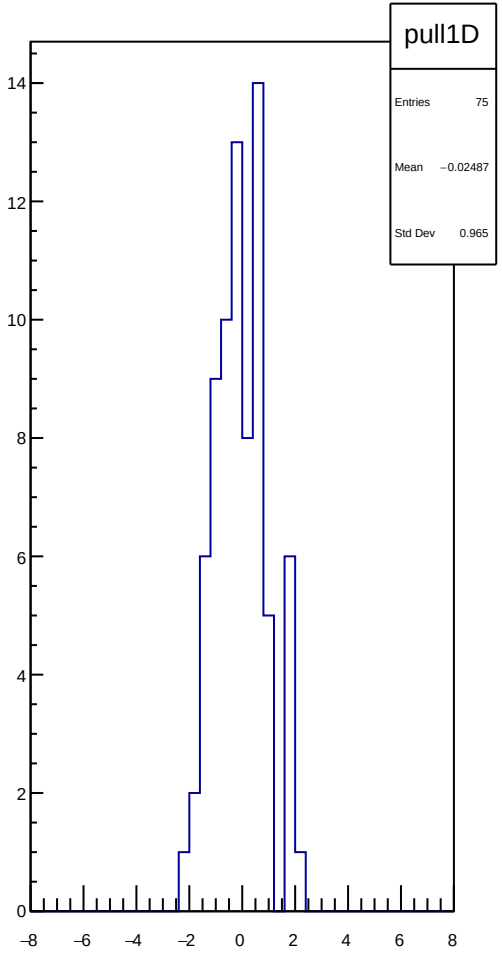

asym_us_agg_avg_rms vs run
χ² / ndf 1951 / 74
p0 1697 ± 1.413
1900
1850
1800
1750
1700
1650
1600
1550

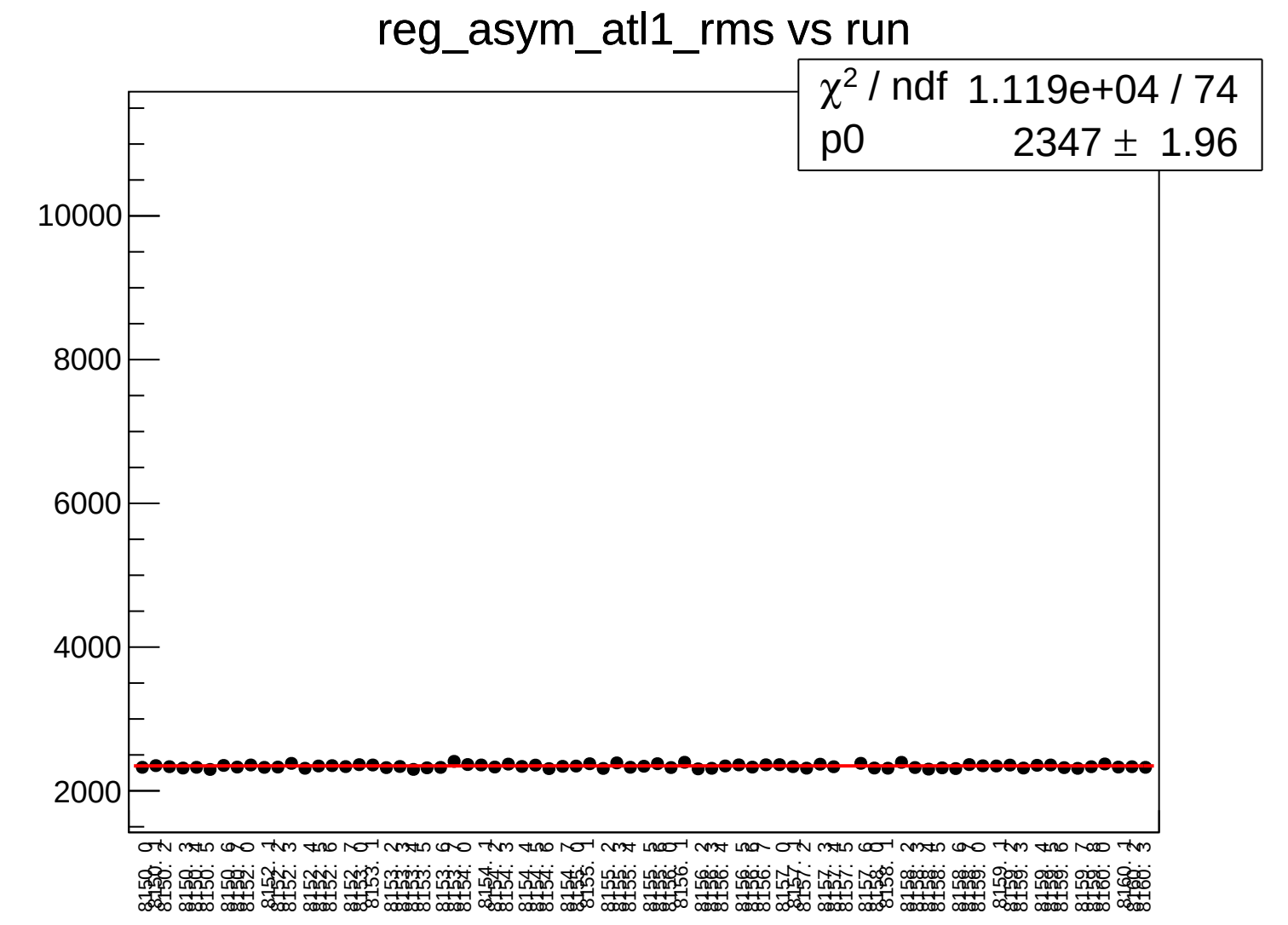

asym_us_agg_dd_mean vs run
χ² / ndf 74.28 / 74
p0 2781 ± 1517
40000
20000
0
−20000
−40000
−60000
pull
Entries 75
Mean −3397
Std Dev 3443
2
1
0
−1
−2
−3

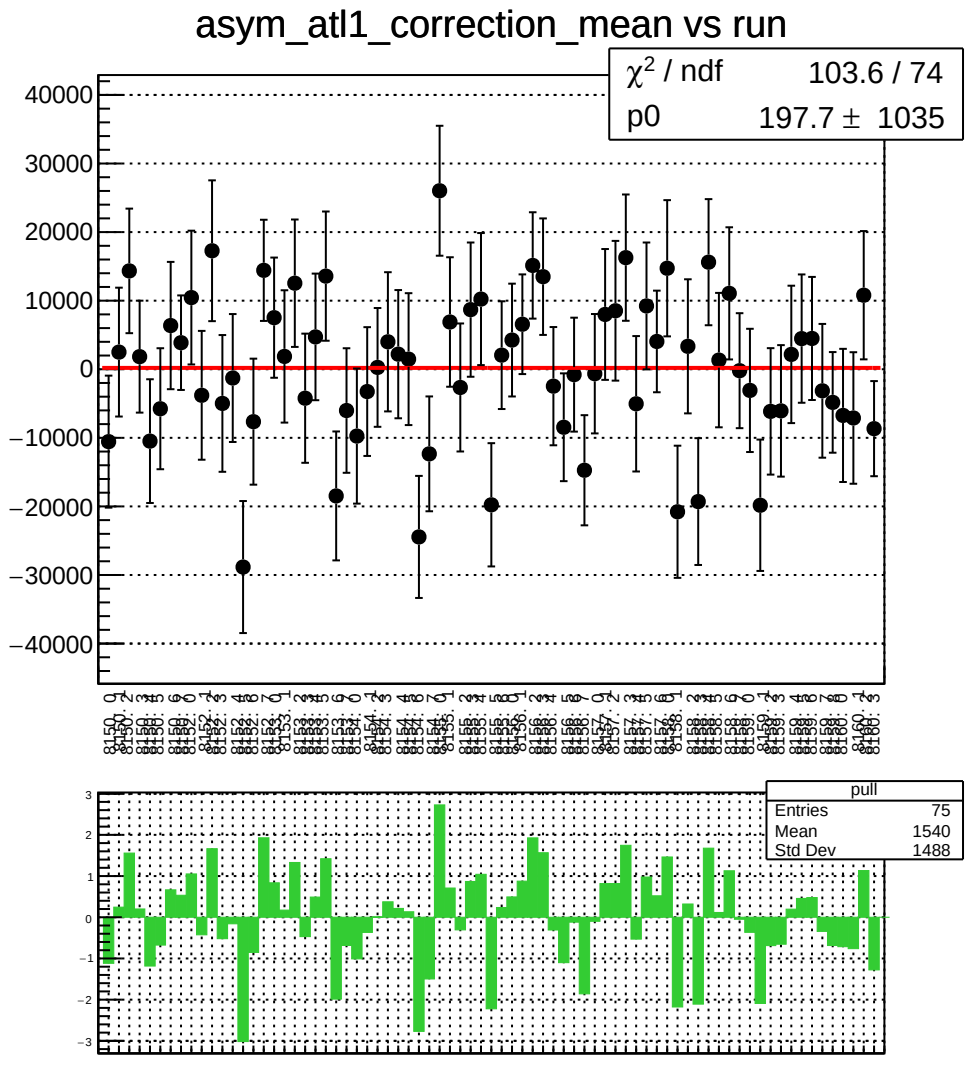

pull1D
Entries 75
Mean 0.0006521
Std Dev 0.9952
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

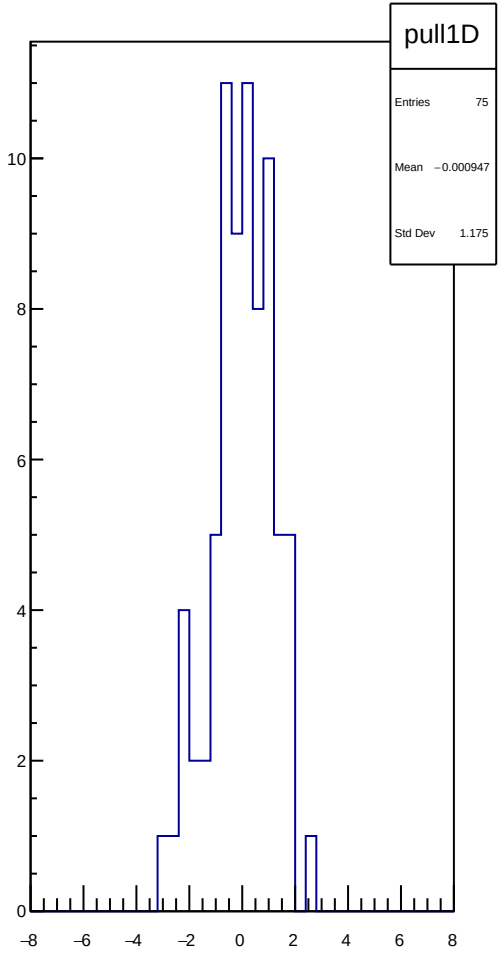

asym_us_agg_dd_rms vs run
χ² / ndf 993.8 / 74
p0 1289 ± 1.073
1400
1350
1300
1250
1200

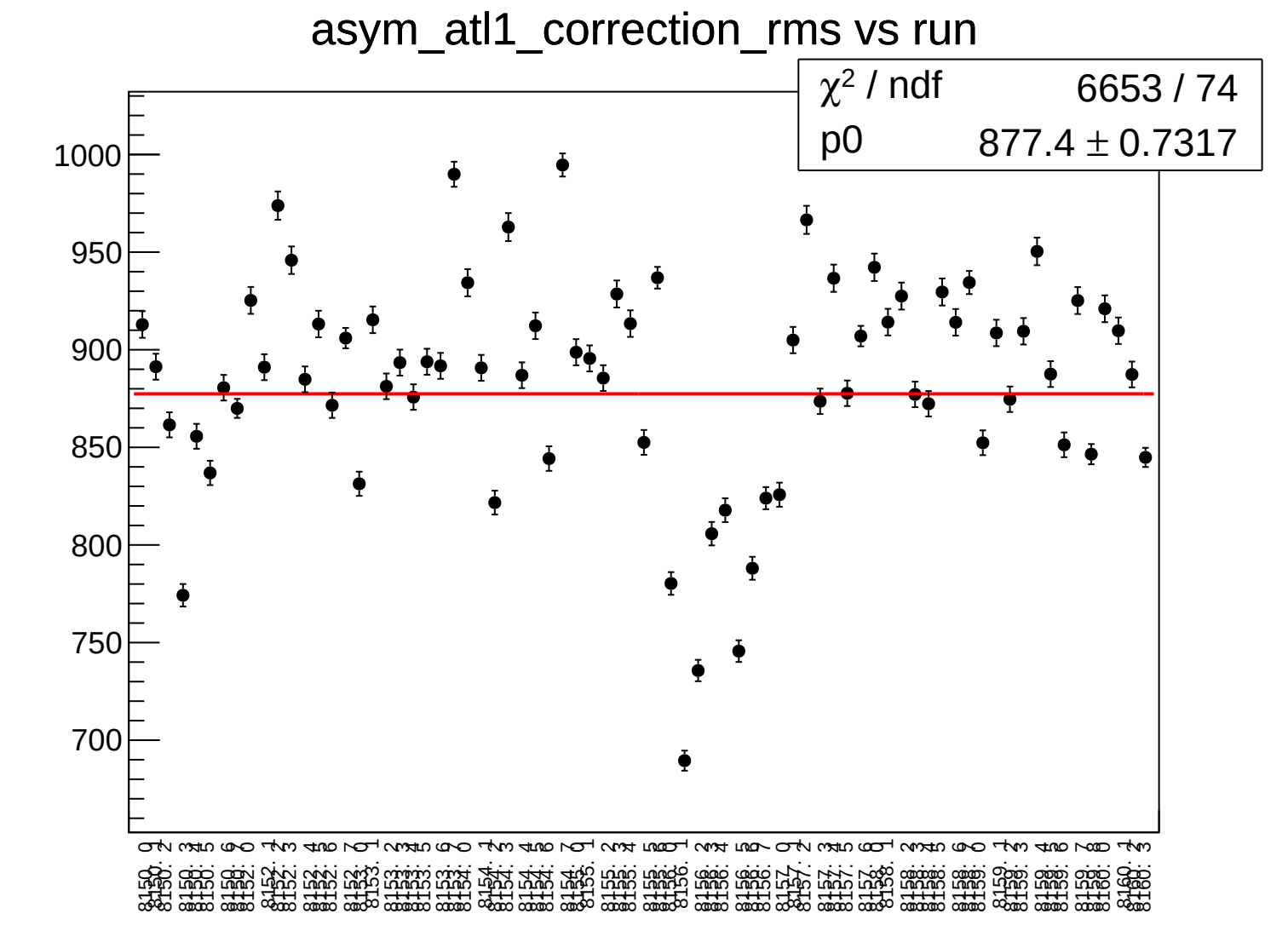

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 69.88 / 74
p0 −148.7 ± 2772
pull
Entries 75
Mean 38.38
Std Dev 30.01

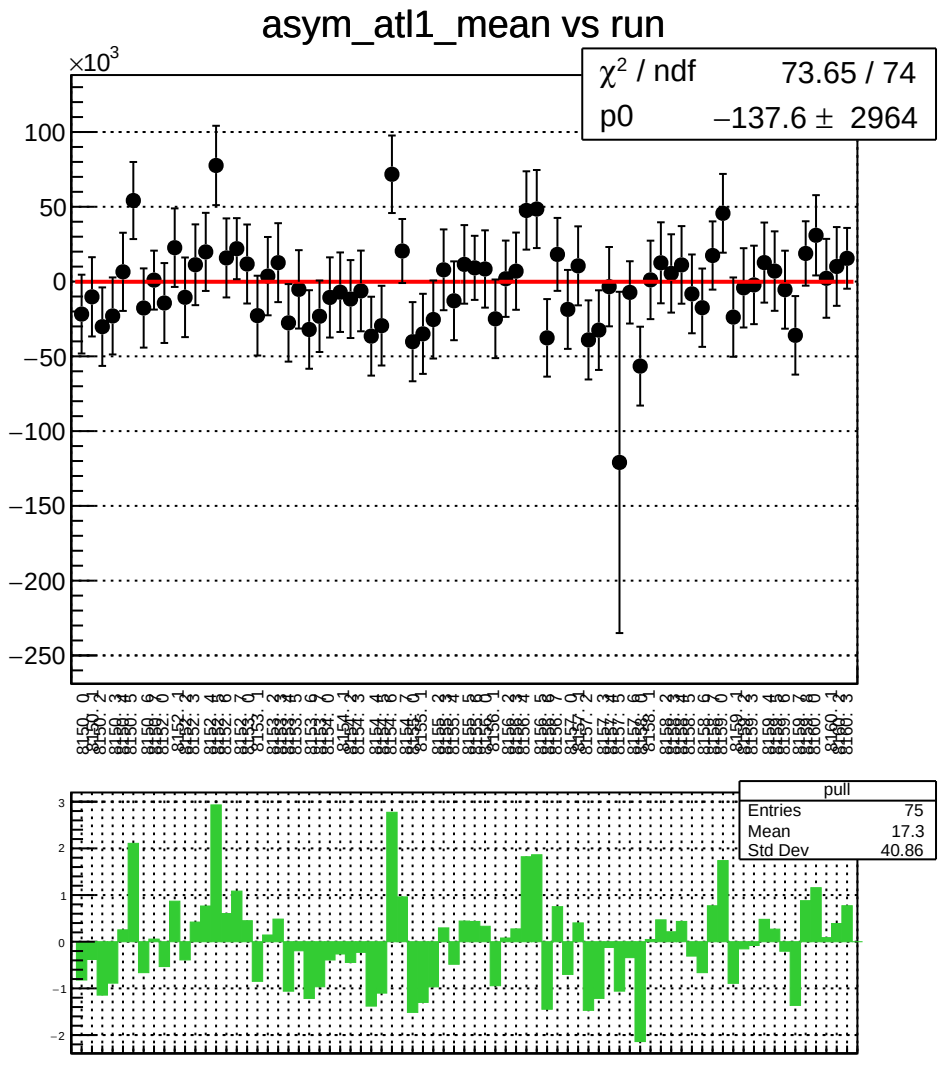

pull1D
Entries 75
Mean −0.02487
Std Dev 0.965

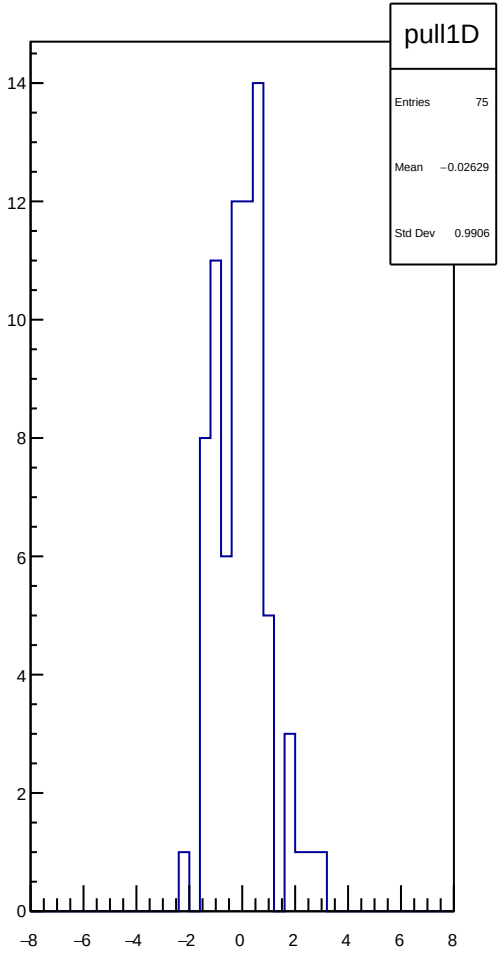

reg_asym_atl1_rms vs run
χ² / ndf 1.119e+04 / 74
p0 2347 ± 1.96
10000
8000
6000
4000
2000

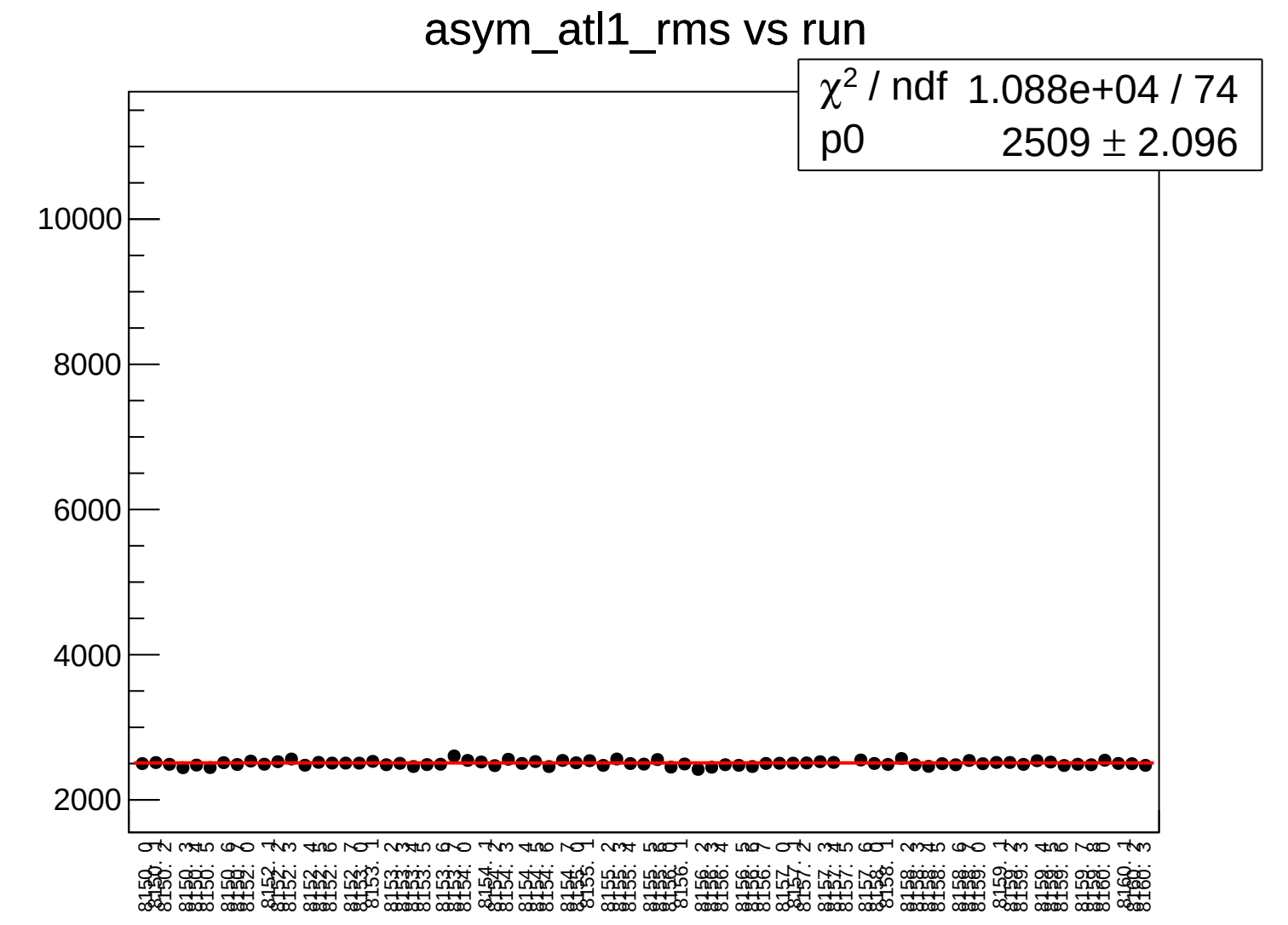

asym_atl1_correction_mean vs run
χ² / ndf 103.6 / 74
p0 197.7 ± 1035
pull
Entries 75
Mean 1540
Std Dev 1488

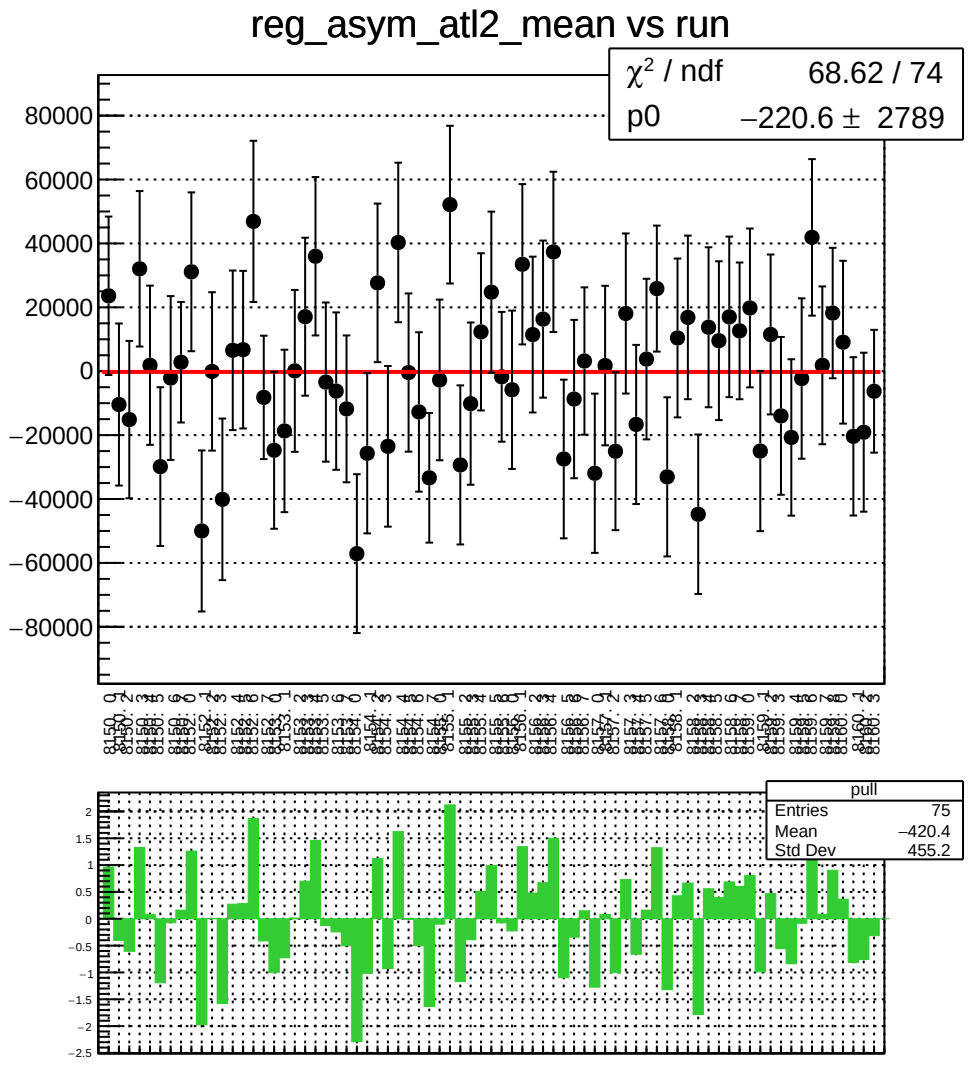

pull1D
Entries 75
Mean −0.000947
Std Dev 1.175

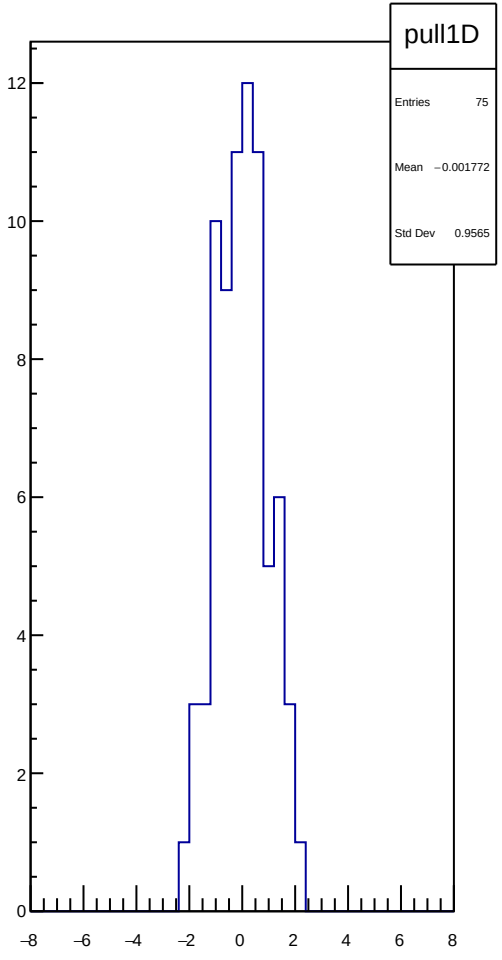

asym_atl1_correction_rms vs run
χ² / ndf 6653 / 74
p0 877.4 ± 0.7317
1000
950
900
850
800
750
700

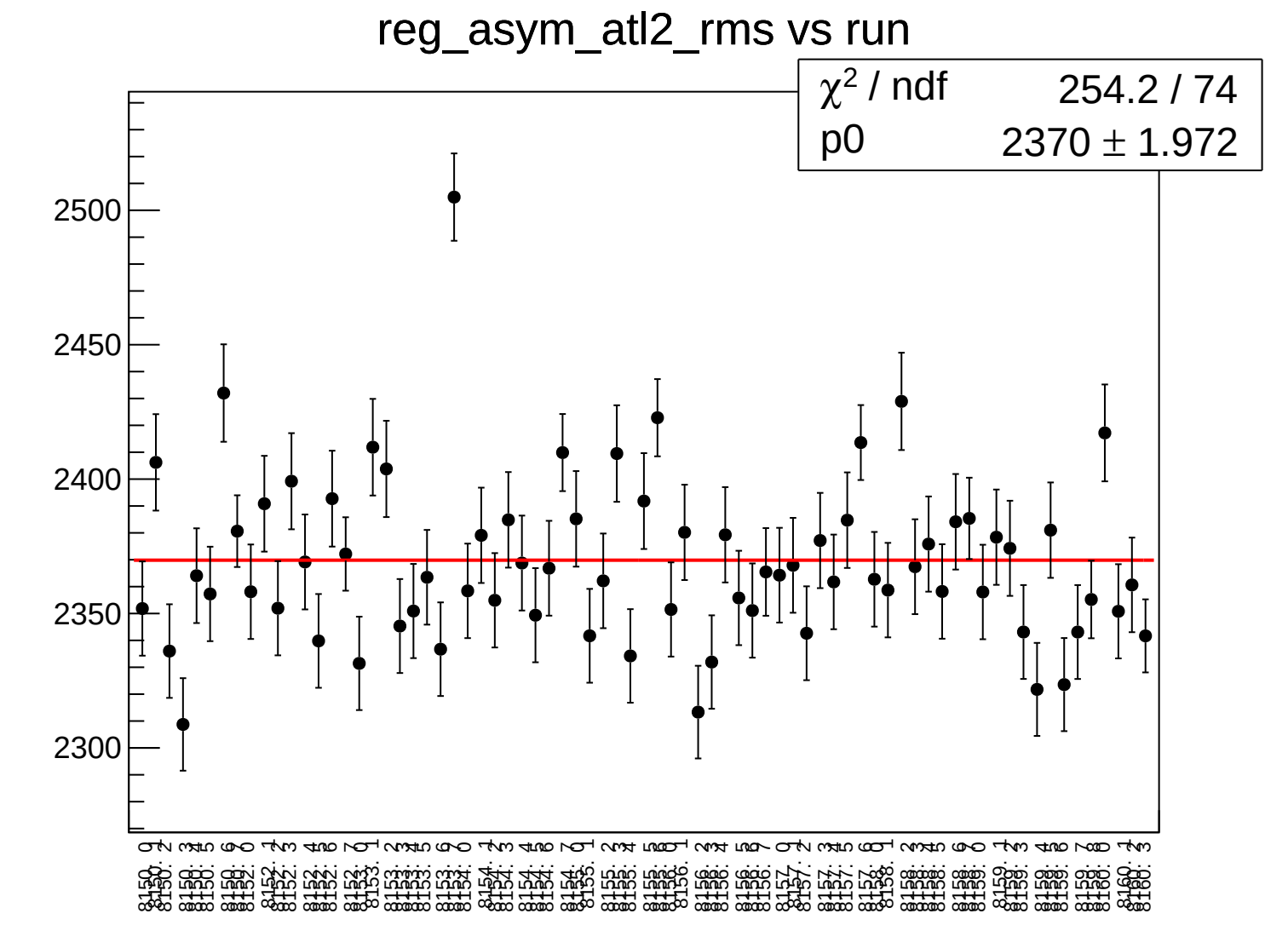

asym_atl1_mean vs run
×10^3
χ² / ndf 73.65 / 74
p0 −137.6 ± 2964
pull
Entries 75
Mean 17.3
Std Dev 40.86

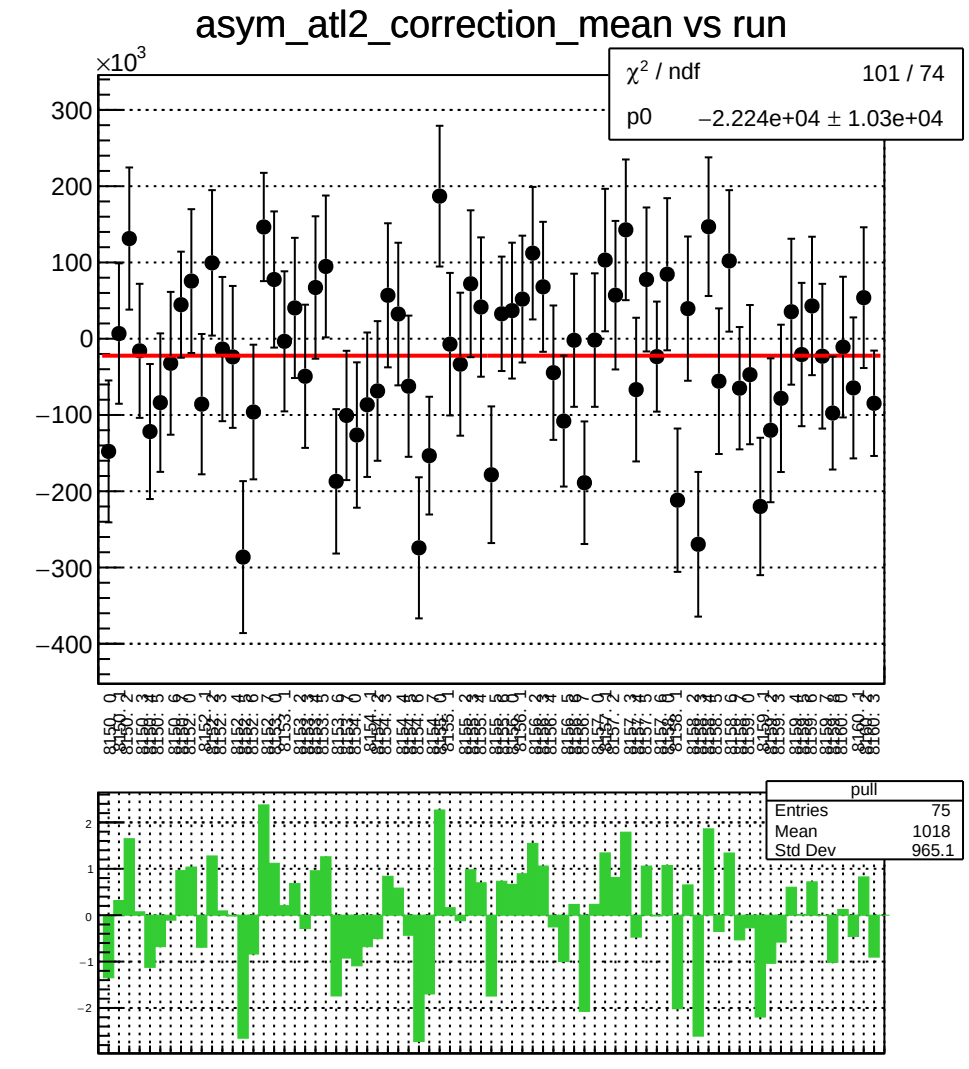

pull1D
Entries 75
Mean −0.02629
Std Dev 0.9906

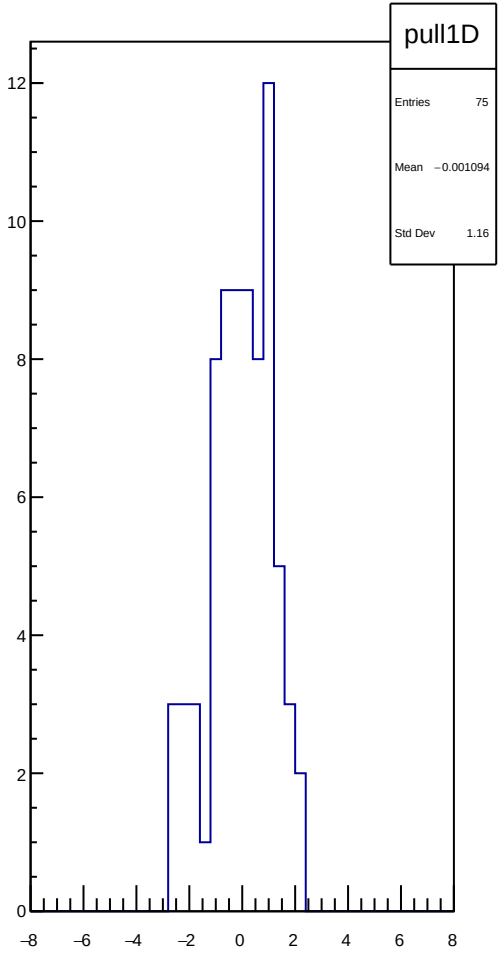

asym_atl1_rms vs run
χ² / ndf 1.088e+04 / 74
p0 2509 ± 2.096
10000
8000
6000
4000
2000

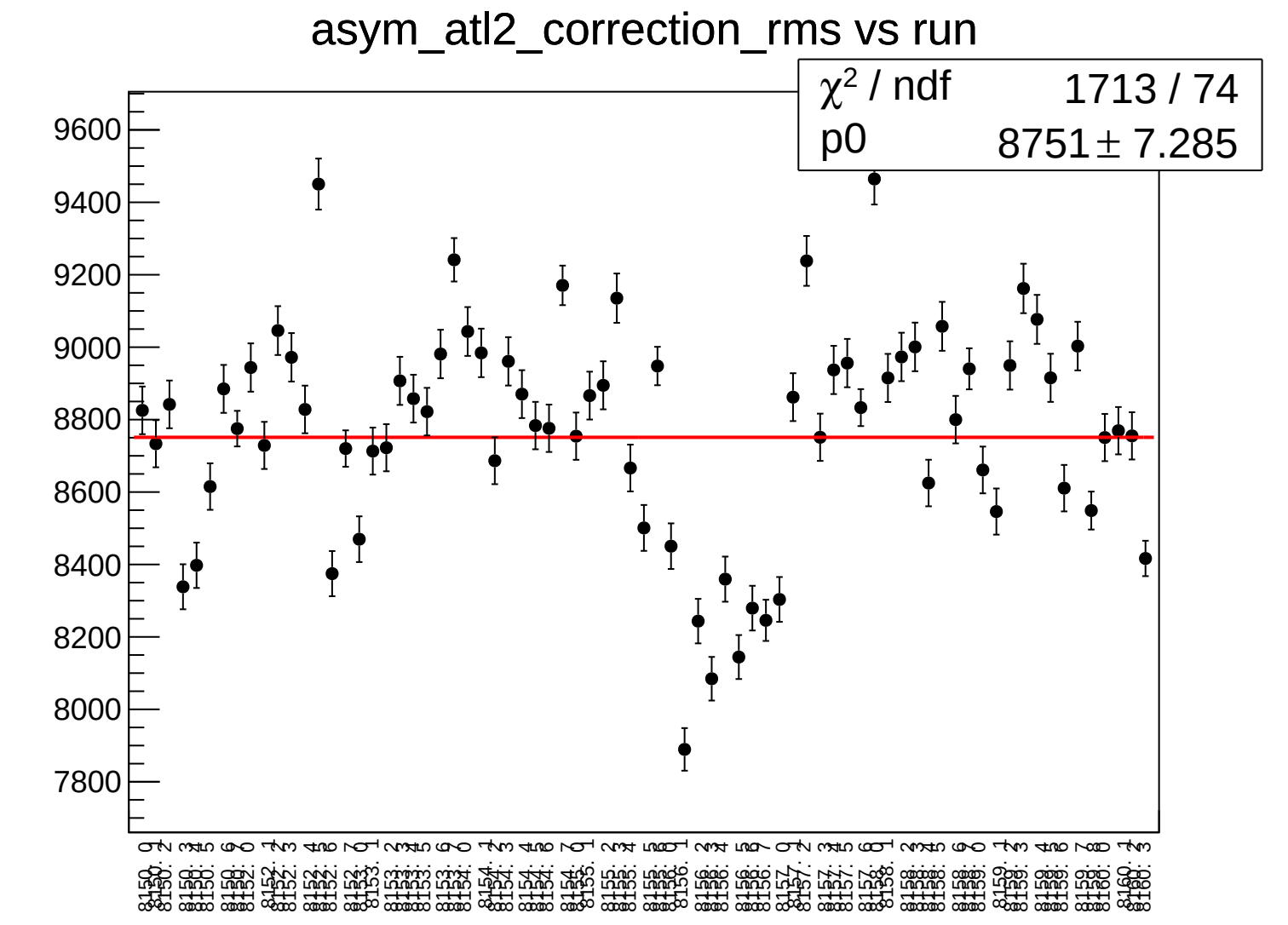

reg_asym_atl2_mean vs run
χ² / ndf 68.62 / 74
p0 −220.6 ± 2789
pull
Entries 75
Mean −420.4
Std Dev 455.2

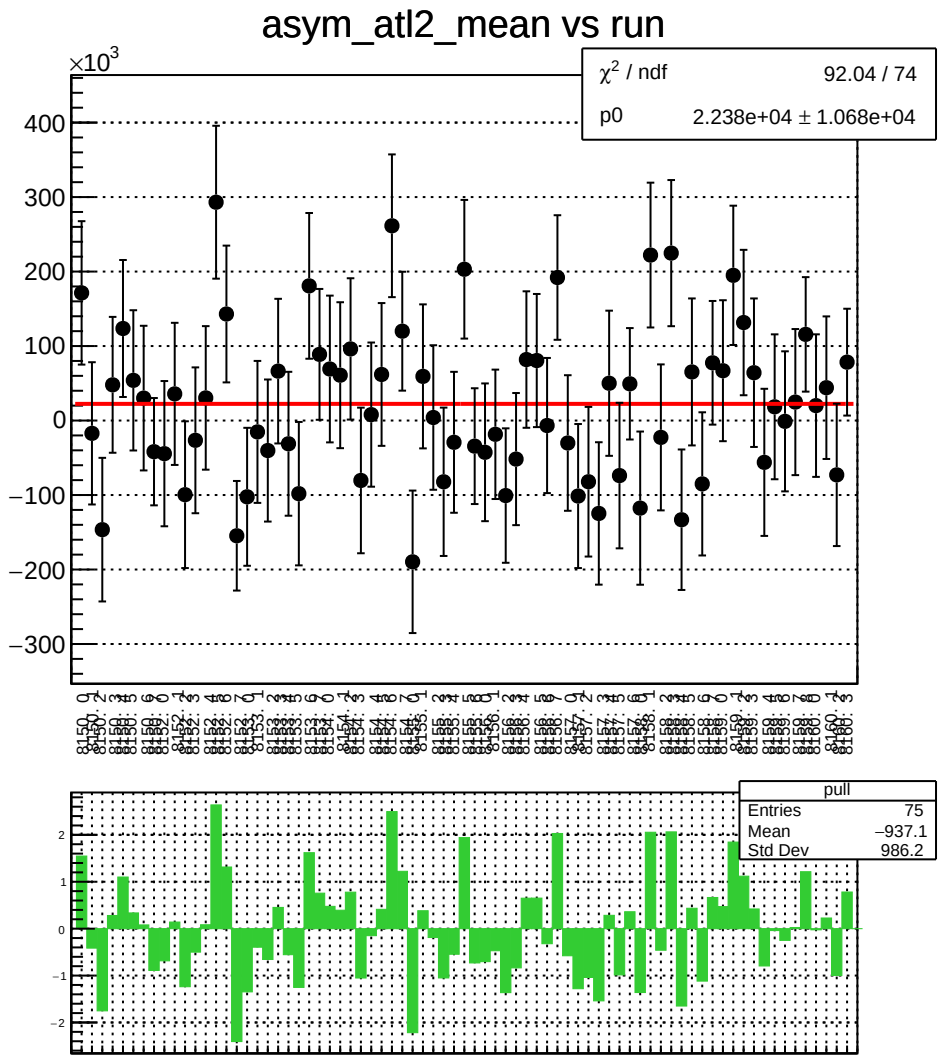

pull1D
Entries 75
Mean −0.001772
Std Dev 0.9565

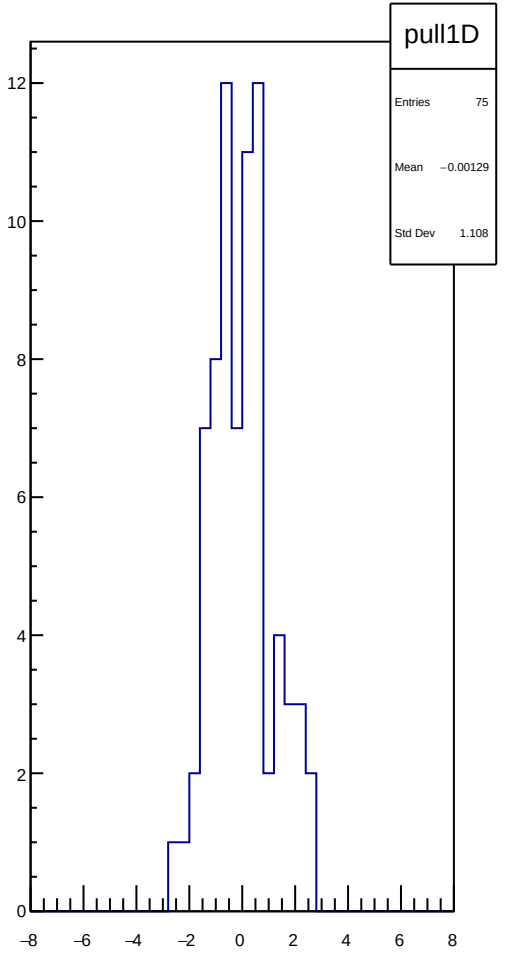

reg_asym_atl2_rms vs run
χ^2 / ndf 254.2 / 74
p0 2370 ± 1.972
2500
2450
2400
2350
2300

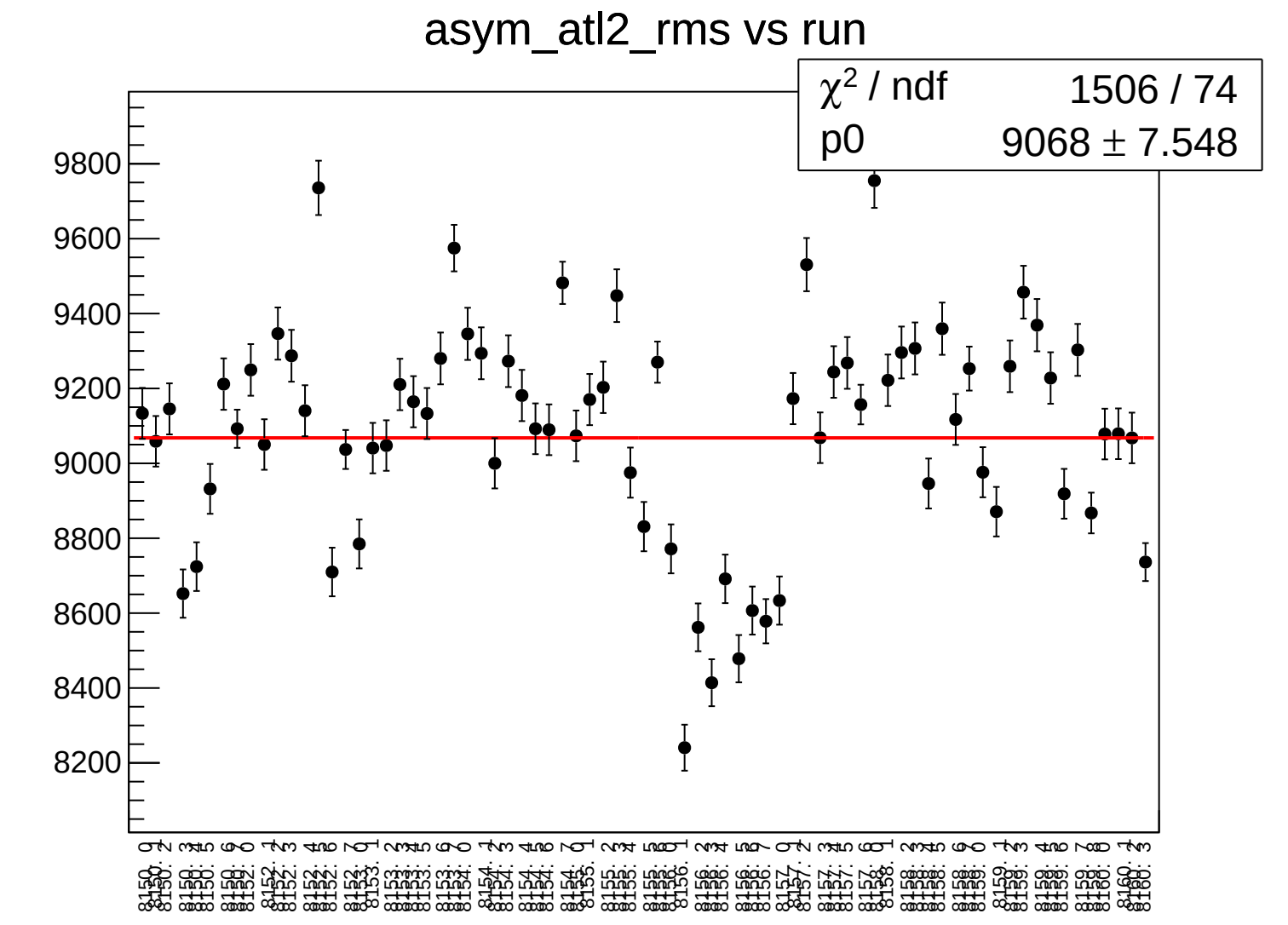

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 101 / 74
p0 −2.224e+04 ± 1.03e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 75
Mean 1018
Std Dev 965.1
2
1
0
−1
−2

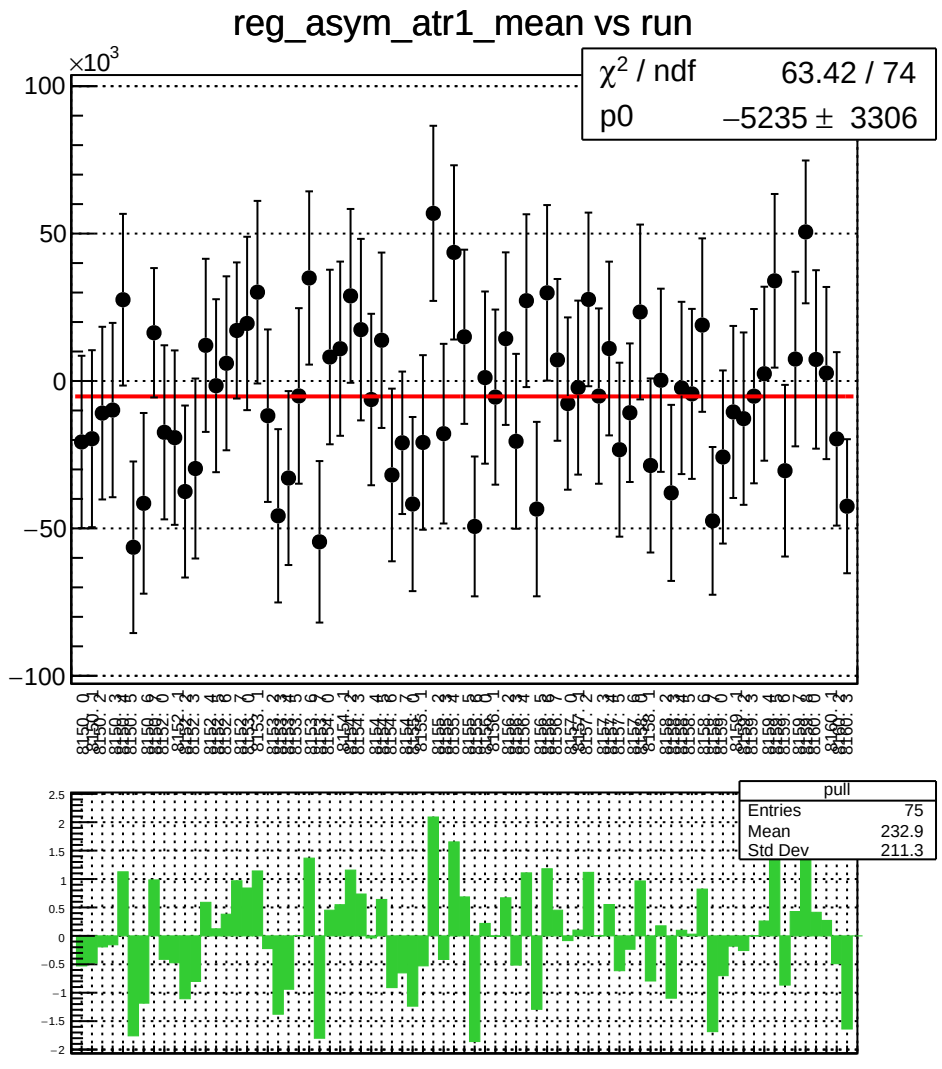

pull1D
Entries 75
Mean −0.001094
Std Dev 1.16
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

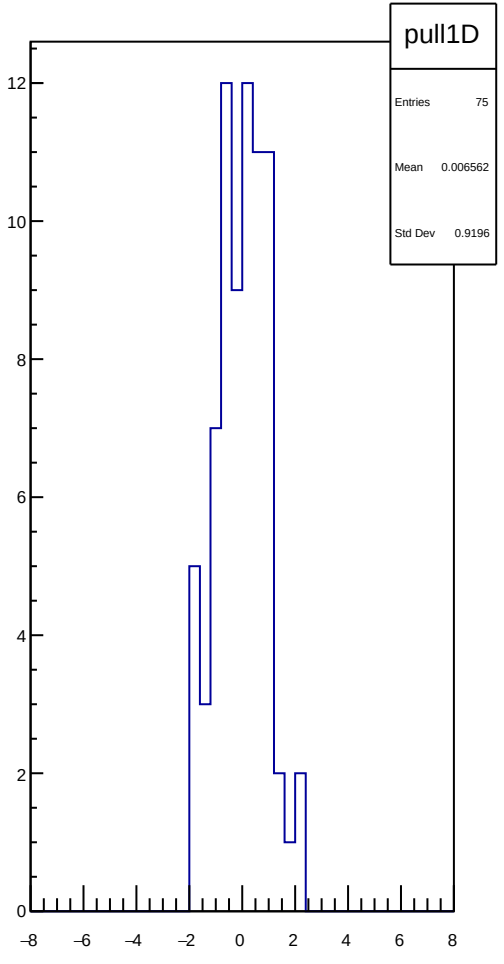

asym_atl2_correction_rms vs run
χ² / ndf 1713 / 74
p0 8751 ± 7.285
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

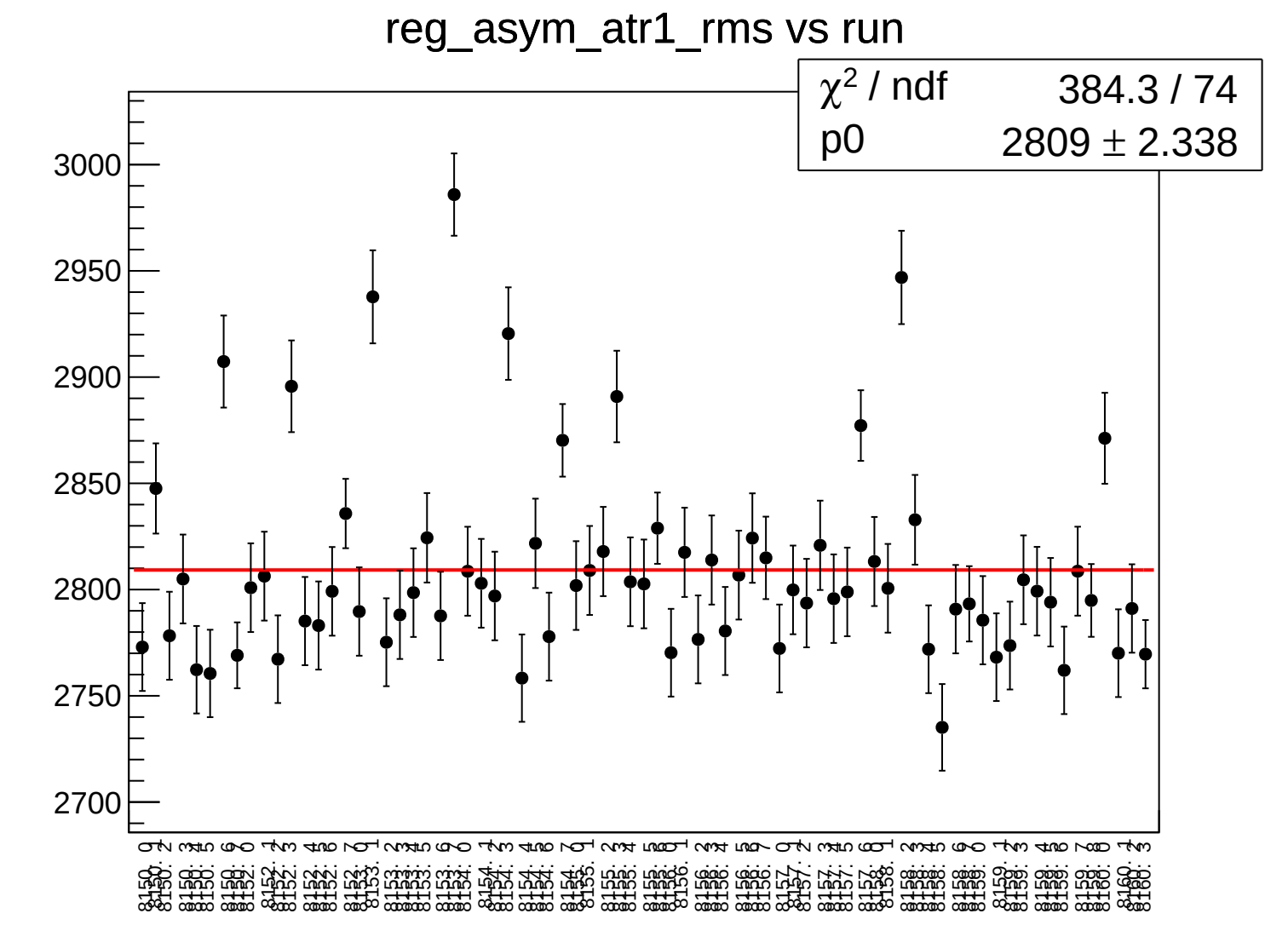

asym_atl2_mean vs run
×10^3
χ² / ndf 92.04 / 74
p0 2.238e+04 ± 1.068e+04
pull
Entries 75
Mean −937.1
Std Dev 986.2

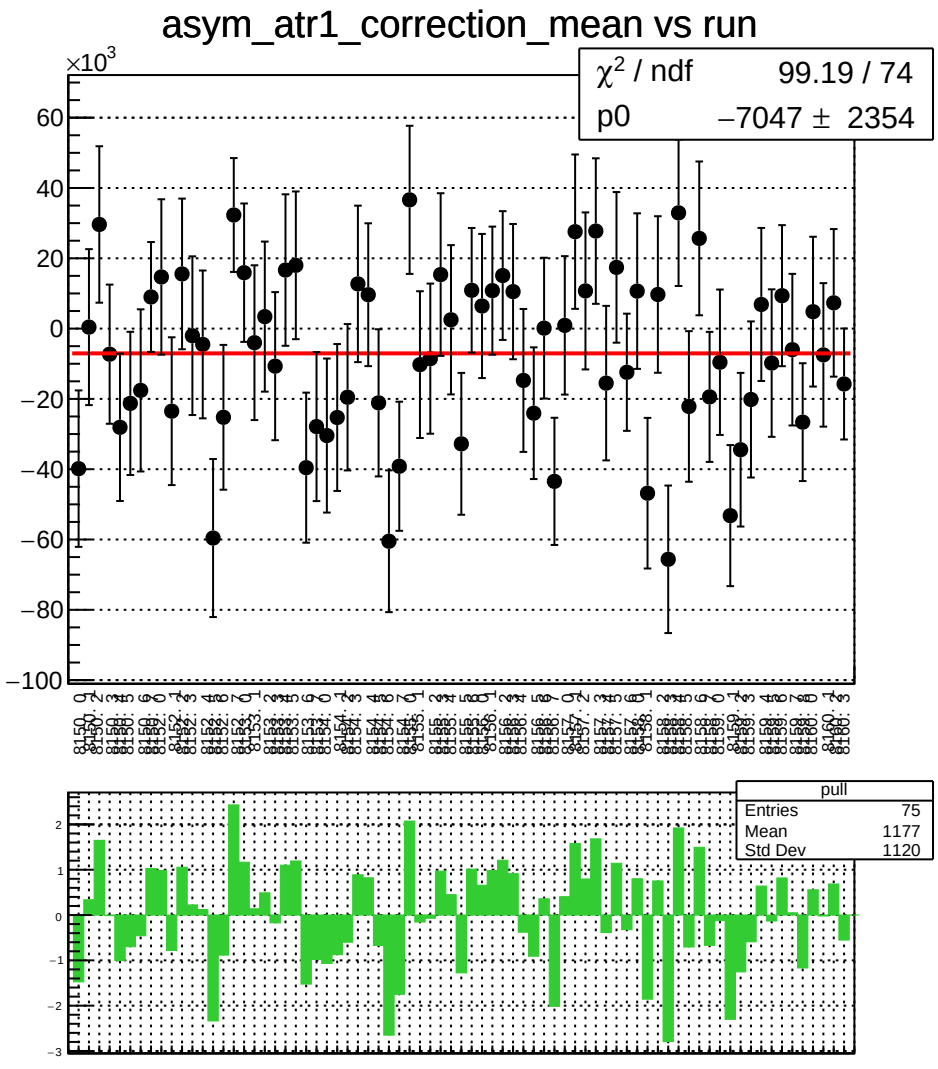

pull1D
Entries 75
Mean −0.00129
Std Dev 1.108

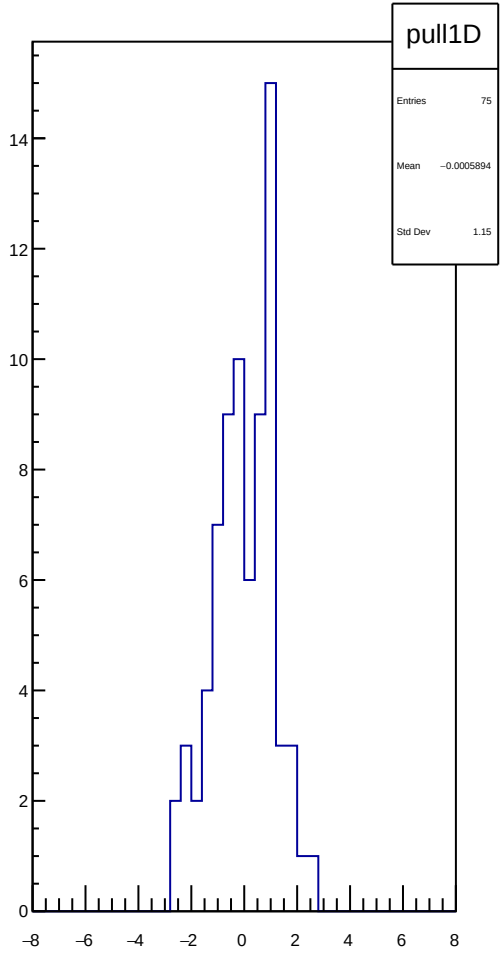

asym_atl2_rms vs run
χ² / ndf 1506 / 74
p0 9068 ± 7.548
9800
9600
9400
9200
9000
8800
8600
8400
8200

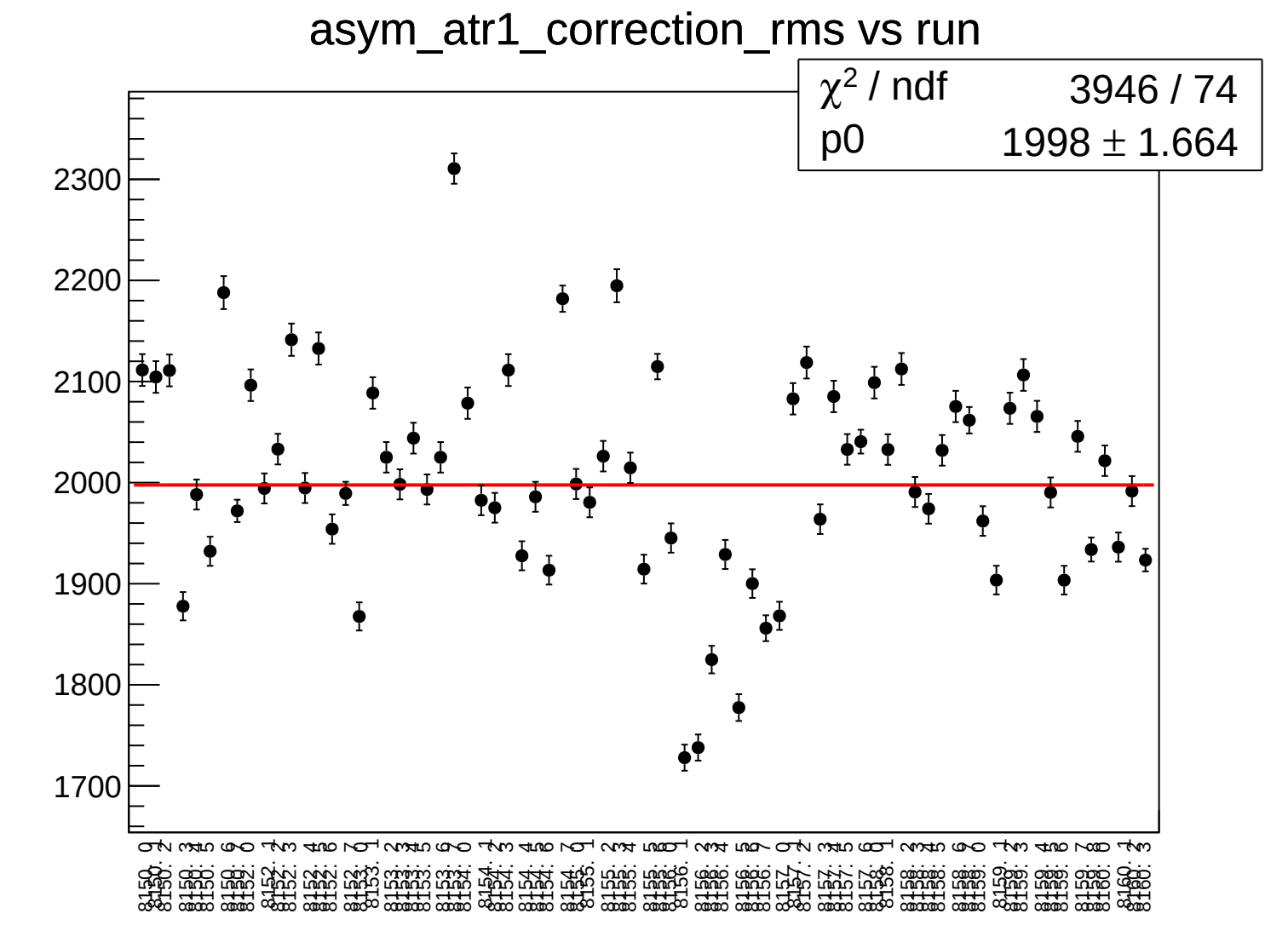

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 63.42 / 74
p0 −5235 ± 3306
100
50
0
−50
−100
pull
Entries 75
Mean 232.9
Std Dev 211.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

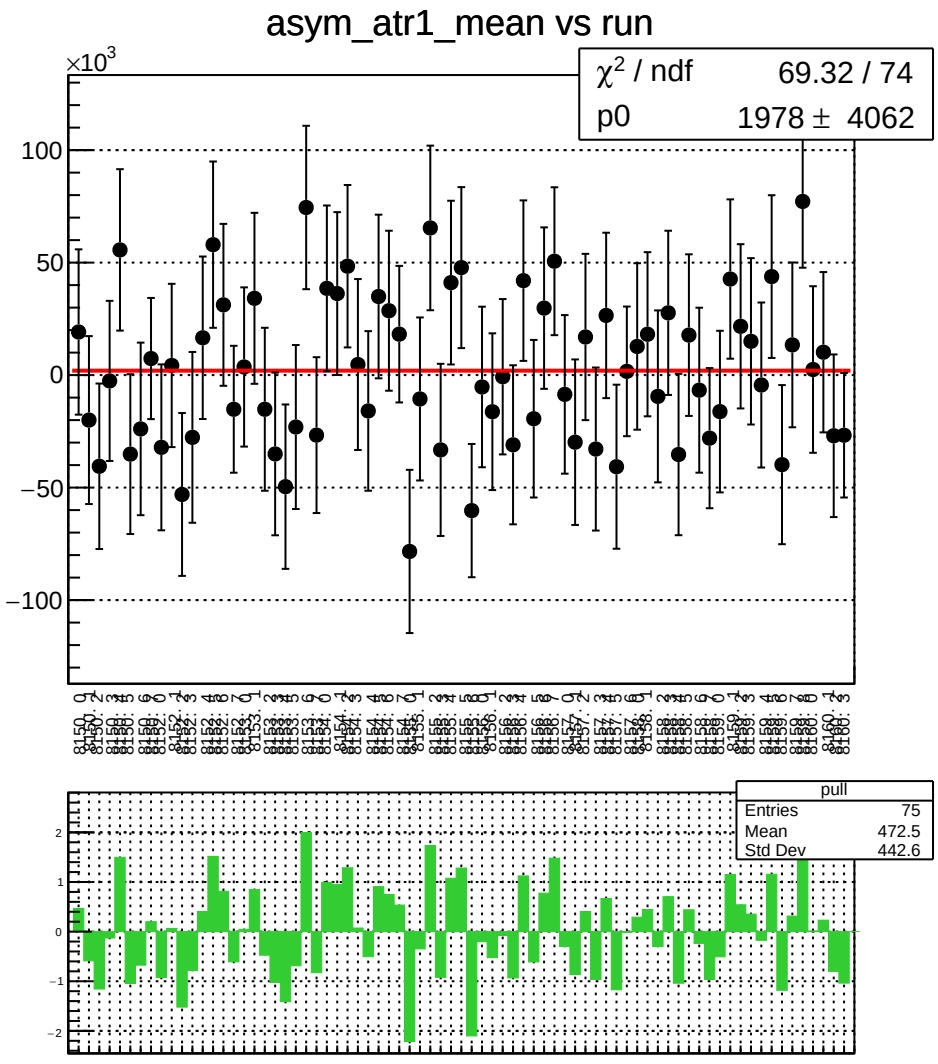

pull1D
Entries 75
Mean 0.006562
Std Dev 0.9196
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

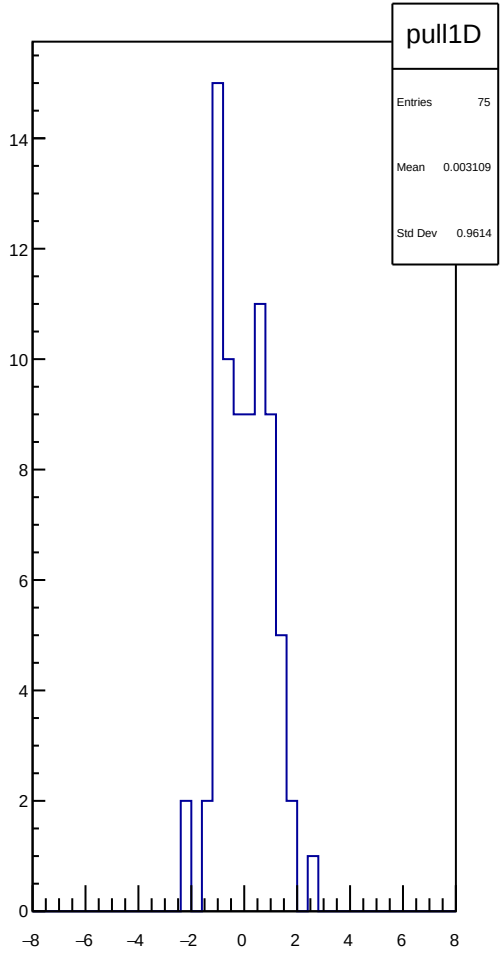

reg_asym_atr1_rms vs run
χ^2 / ndf 384.3 / 74
p0 2809 ± 2.338
3000
2950
2900
2850
2800
2750
2700

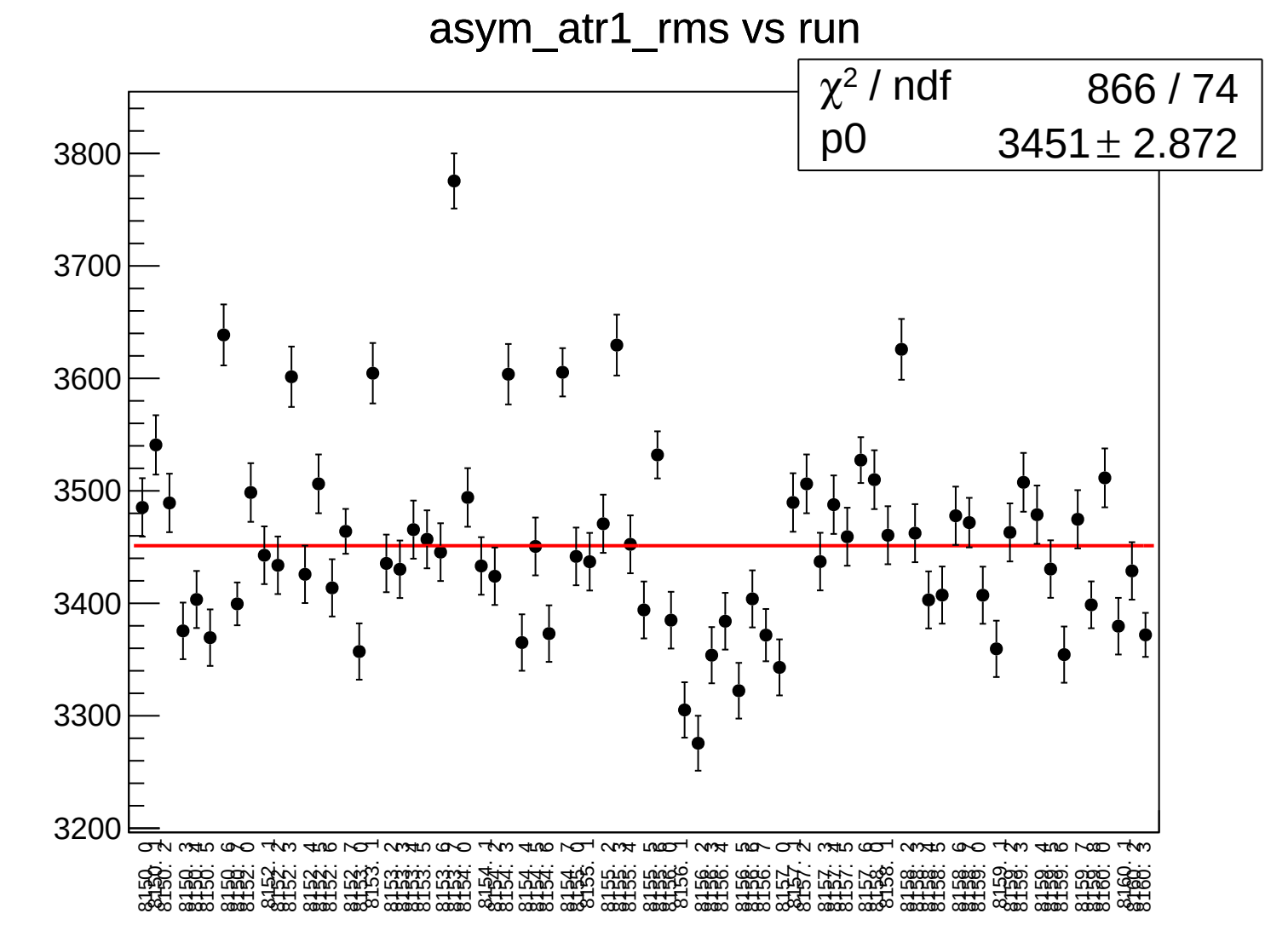

asym_atr1_correction_mean vs run
×10^3
χ^2 / ndf 99.19 / 74
p0 −7047 ± 2354
pull
Entries 75
Mean 1177
Std Dev 1120

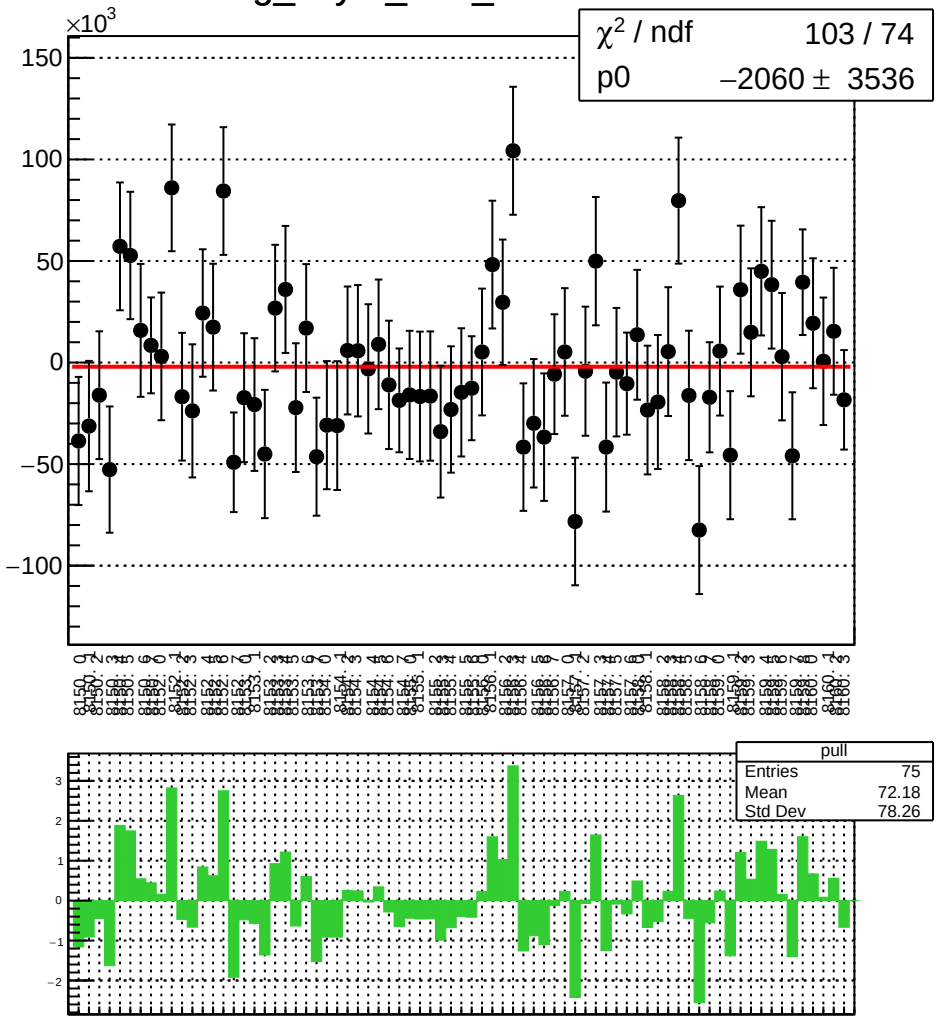

pull1D
Entries 75
Mean −0.0005894
Std Dev 1.15

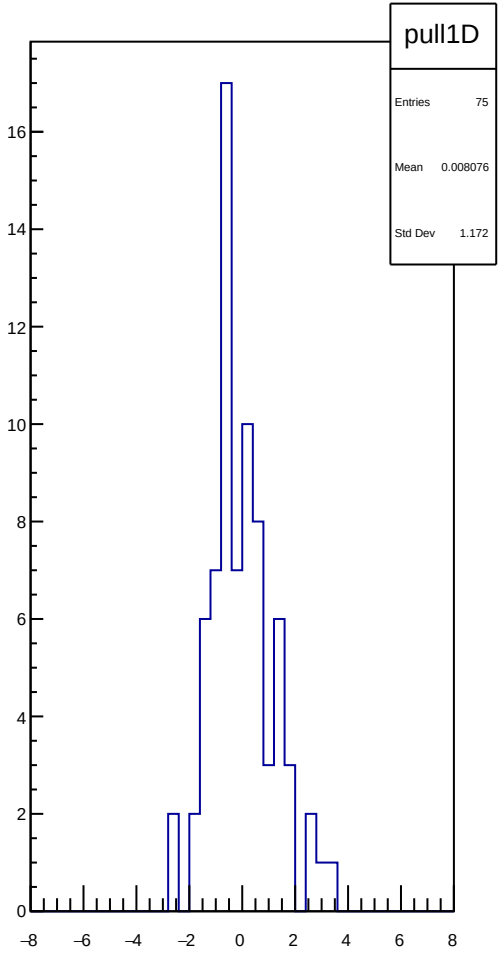

asym_atr1_correction_rms vs run
χ² / ndf 3946 / 74
p0 1998 ± 1.664
2300
2200
2100
2000
1900
1800
1700

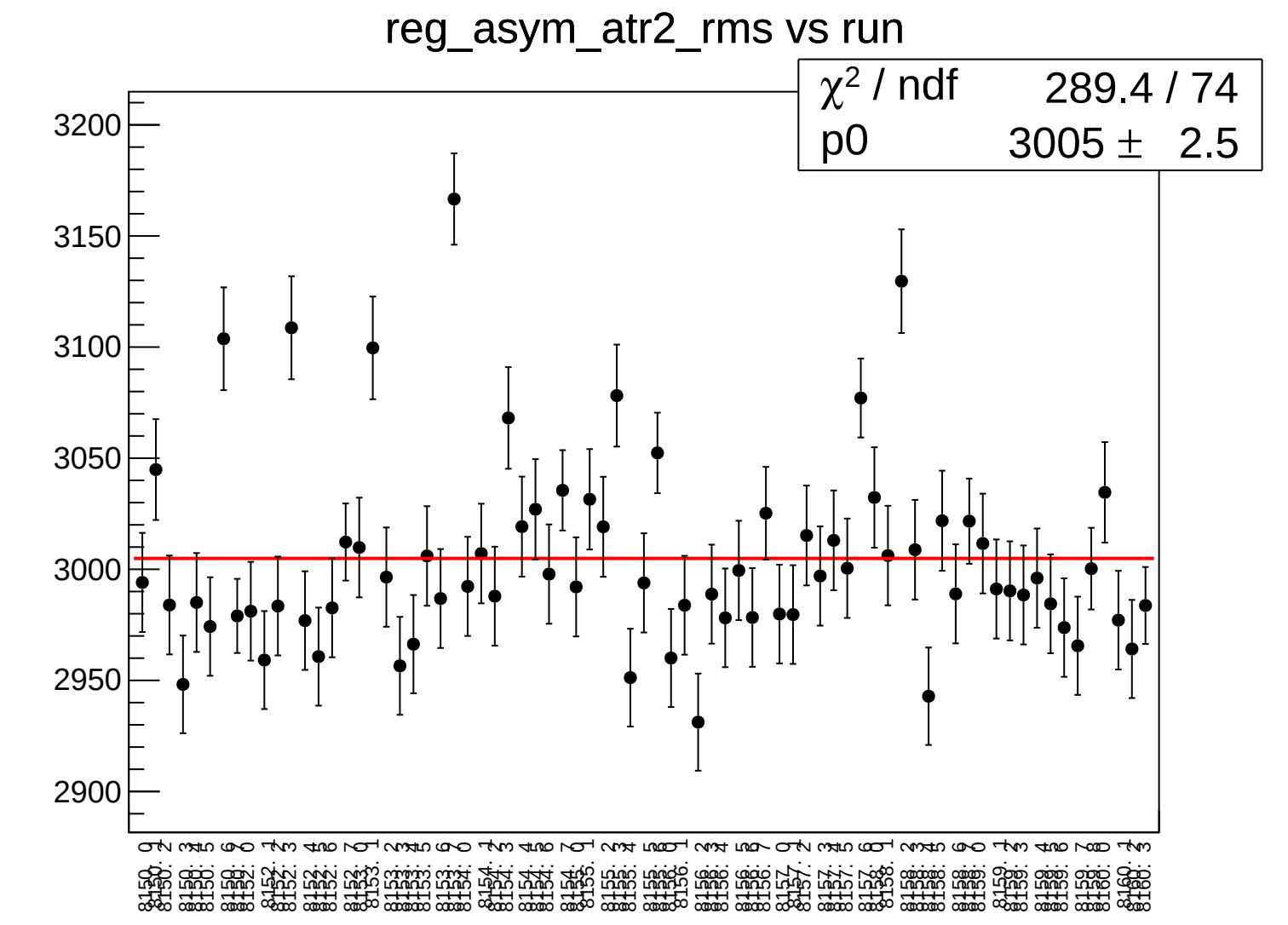

asym_atr1_mean vs run
×10^3
χ^2 / ndf 69.32 / 74
p0 1978 ± 4062
100
50
0
−50
−100
pull
Entries 75
Mean 472.5
Std Dev 442.6
2
1
0
−1
−2

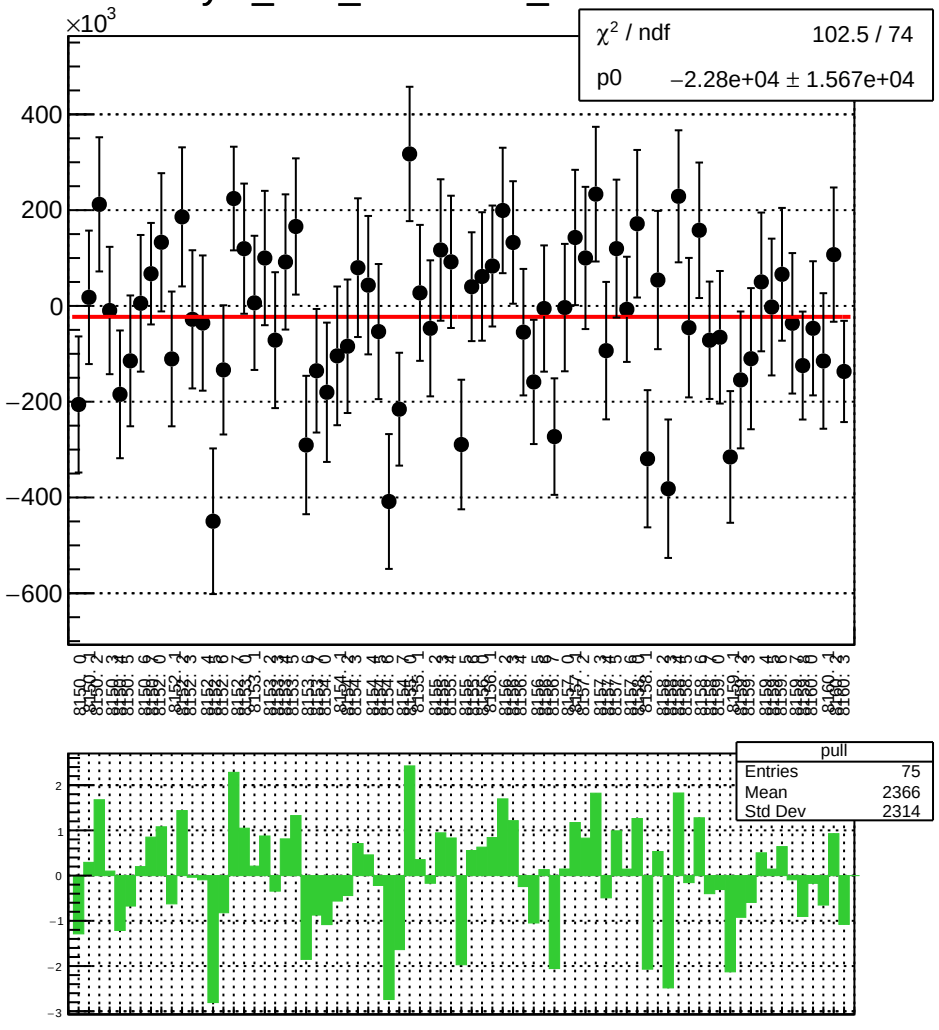

pull1D
Entries 75
Mean 0.003109
Std Dev 0.9614
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

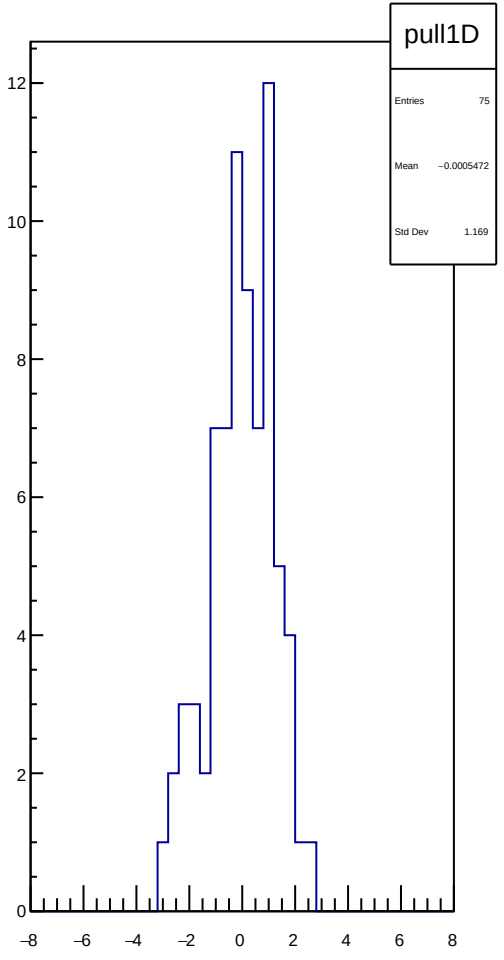

asym_atr1_rms vs run
χ² / ndf 866 / 74
p0 3451 ± 2.872
3800
3700
3600
3500
3400
3300
3200

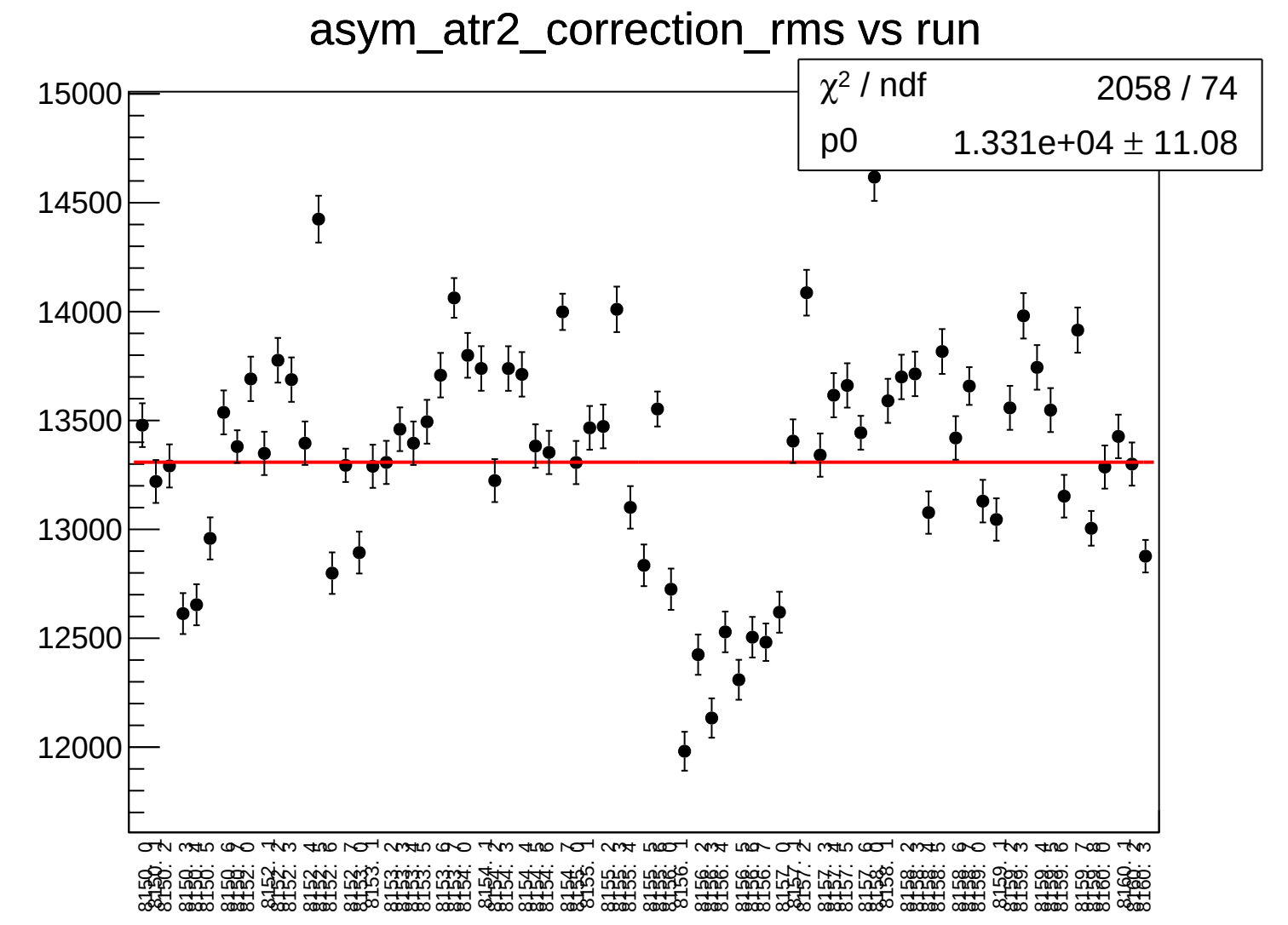

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 103 / 74
p0 −2060 ± 3536
150
100
50
0
−50
−100
pull
Entries 75
Mean 72.18
Std Dev 78.26
3
2
1
0
−1
−2

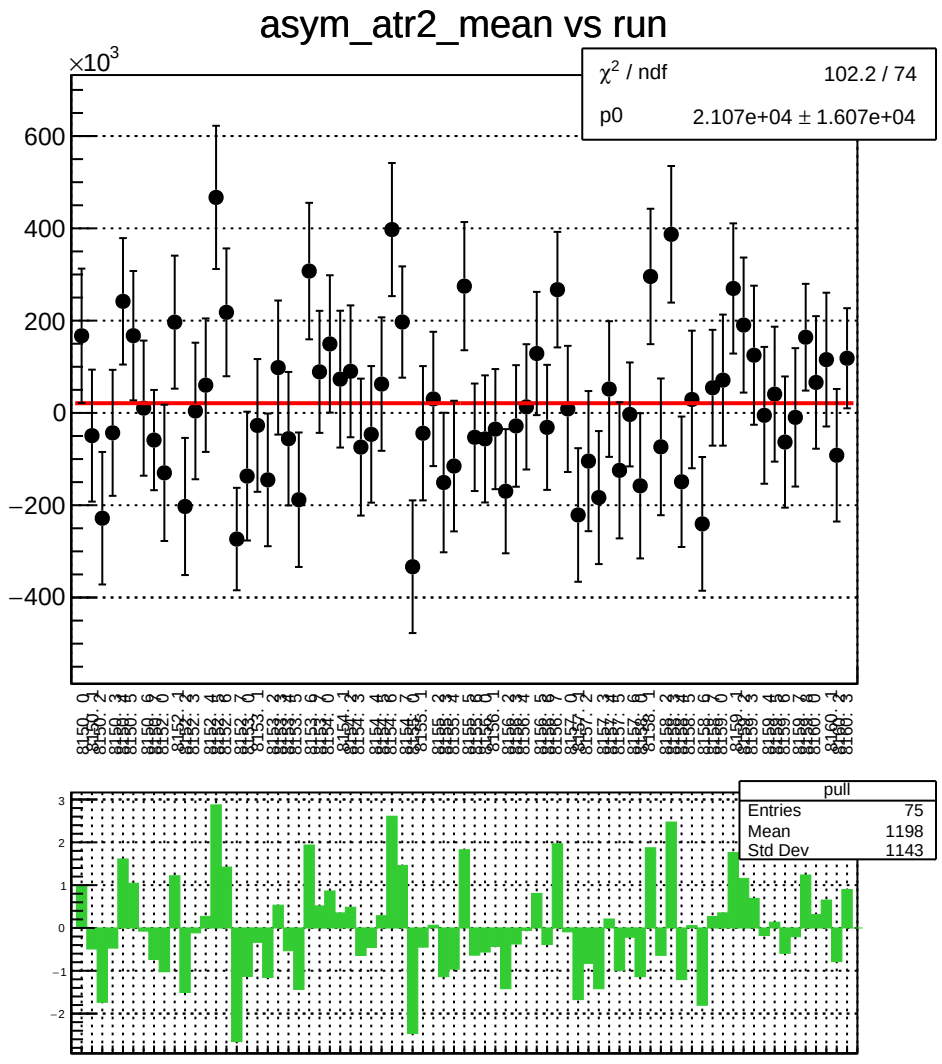

pull1D
Entries 75
Mean 0.008076
Std Dev 1.172
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

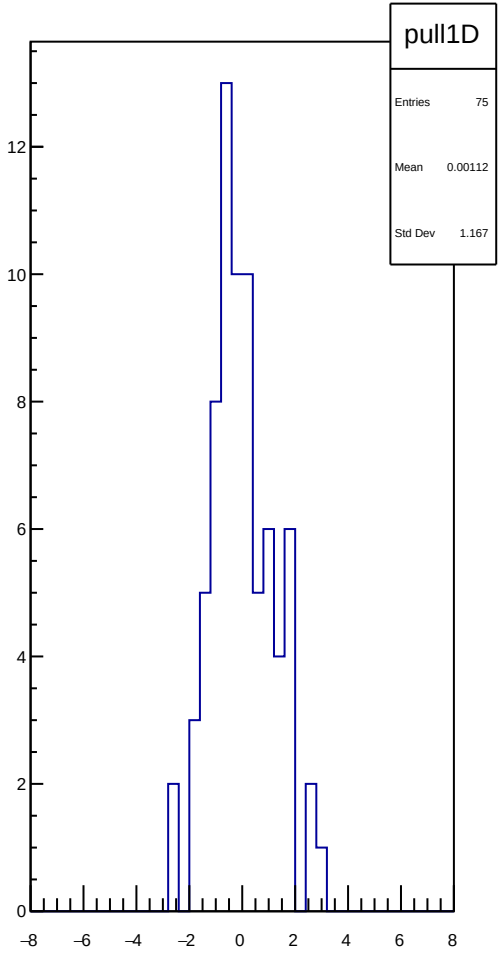

reg_asym_atr2_rms vs run
χ² / ndf 289.4 / 74
p0 3005 ± 2.5
3200
3150
3100
3050
3000
2950
2900

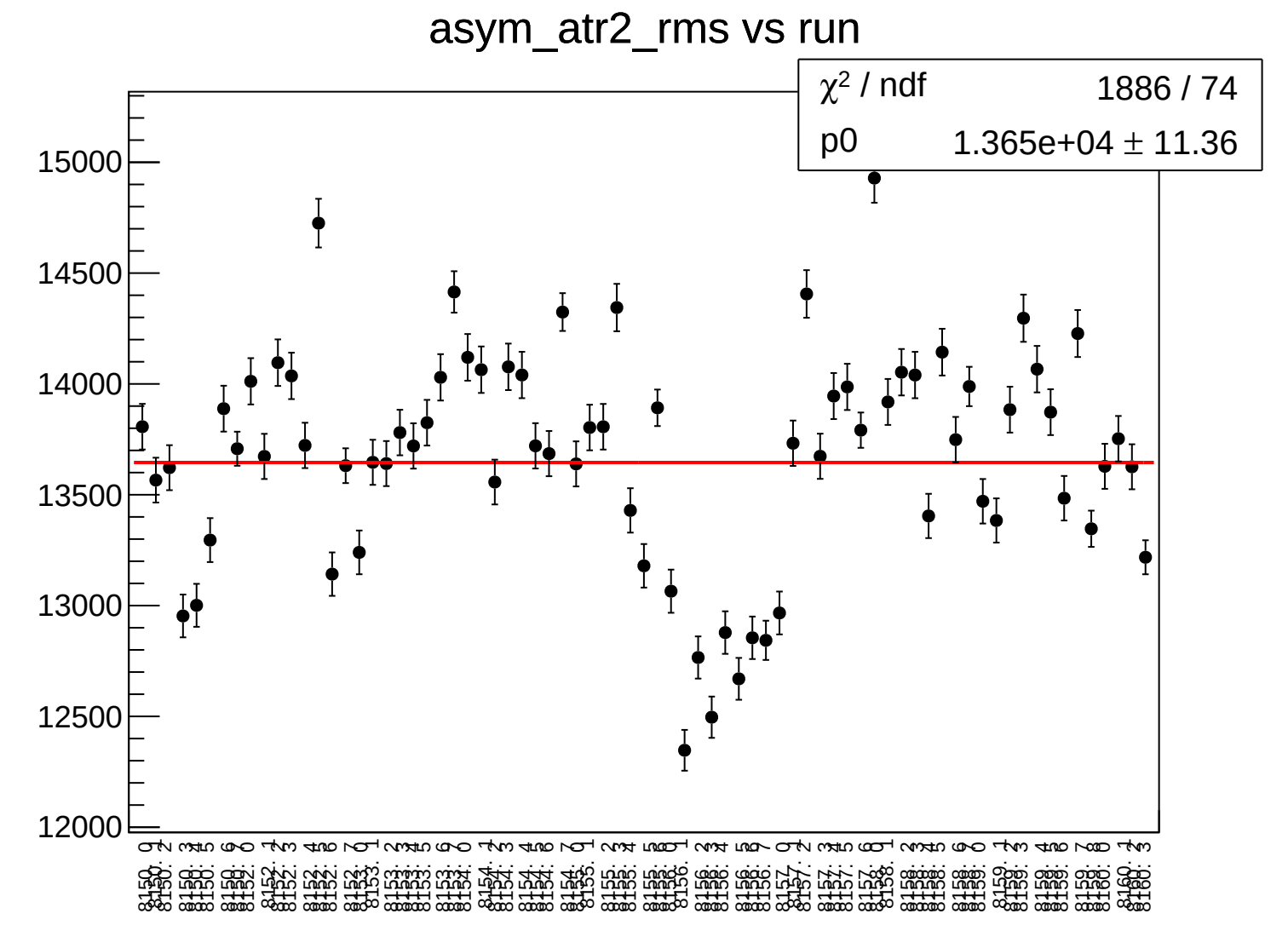

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 102.5 / 74
p0 −2.28e+04 ± 1.567e+04
400
200
0
−200
−400
−600
pull
Entries 75
Mean 2366
Std Dev 2314
2
1
0
−1
−2
−3

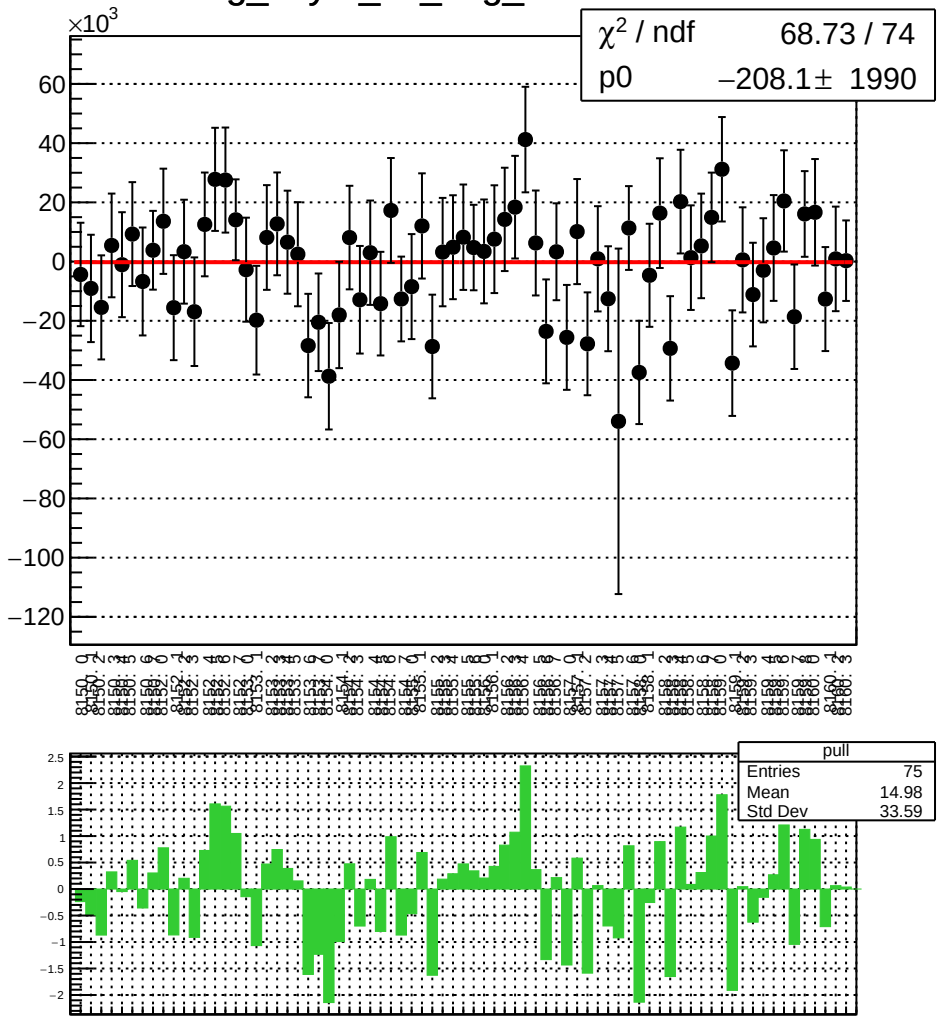

pull1D
Entries 75
Mean −0.0005472
Std Dev 1.169
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

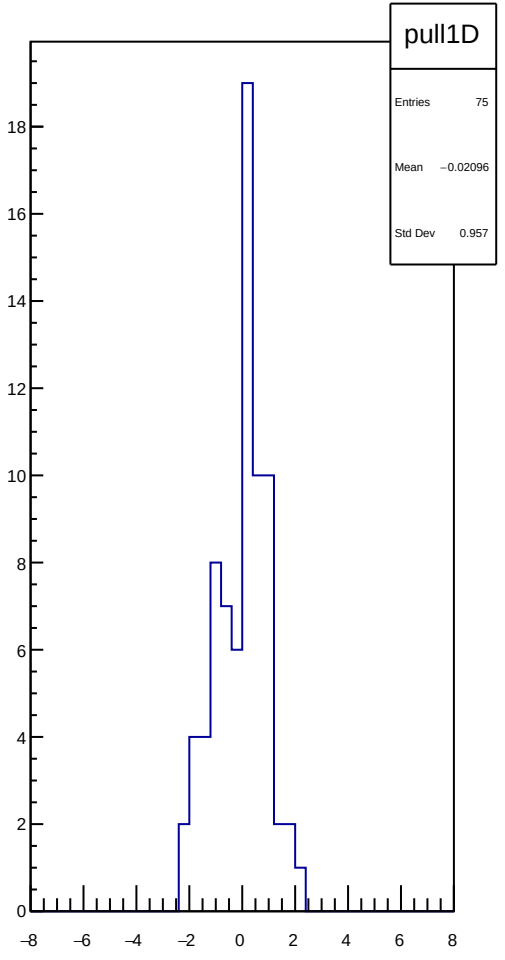

asym_atr2_correction_rms vs run
χ² / ndf 2058 / 74
p0 1.331e+04 ± 11.08
15000
14500
14000
13500
13000
12500
12000

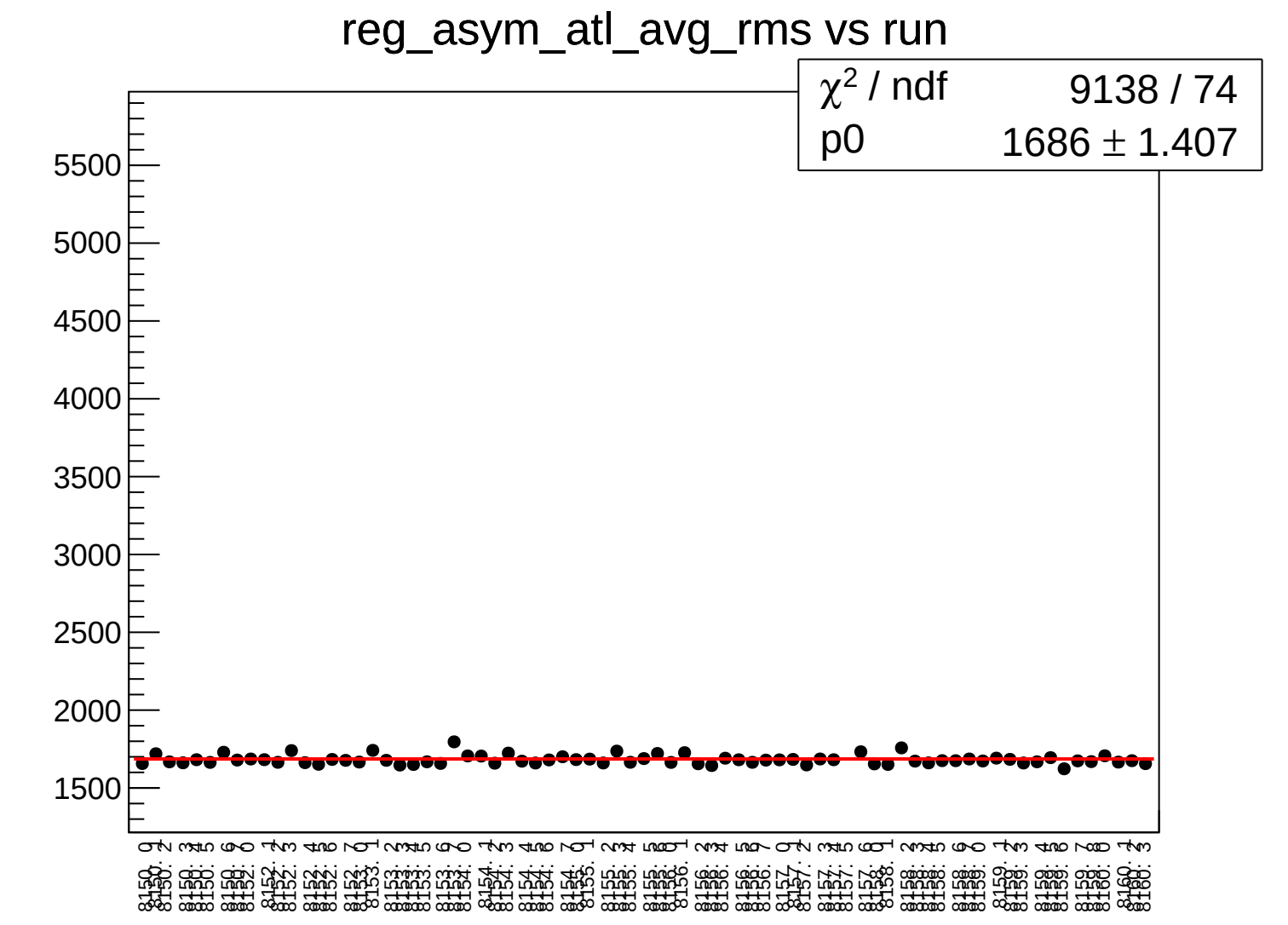

asym_atr2_mean vs run
×10^3
χ² / ndf 102.2 / 74
p0 2.107e+04 ± 1.607e+04
600
400
200
0
−200
−400
pull
Entries 75
Mean 1198
Std Dev 1143
3
2
1
0
−1
−2

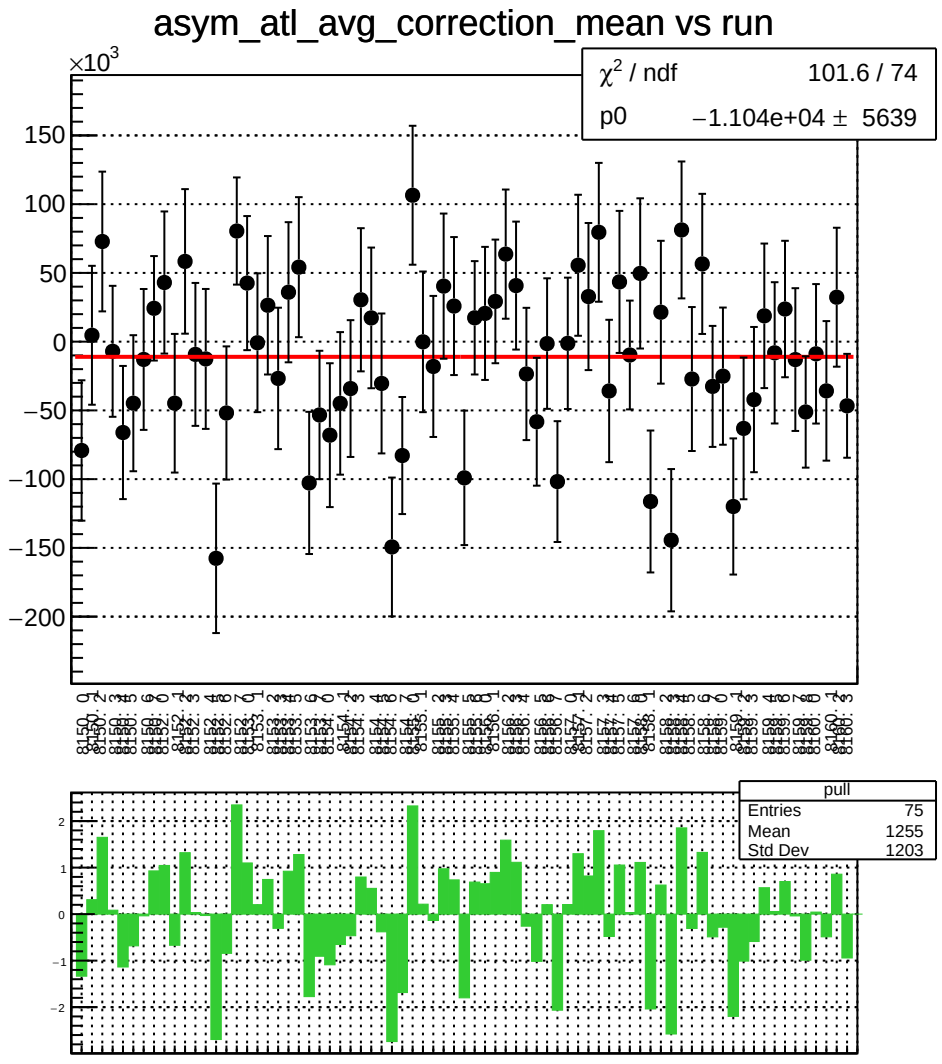

pull1D
Entries 75
Mean 0.00112
Std Dev 1.167
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

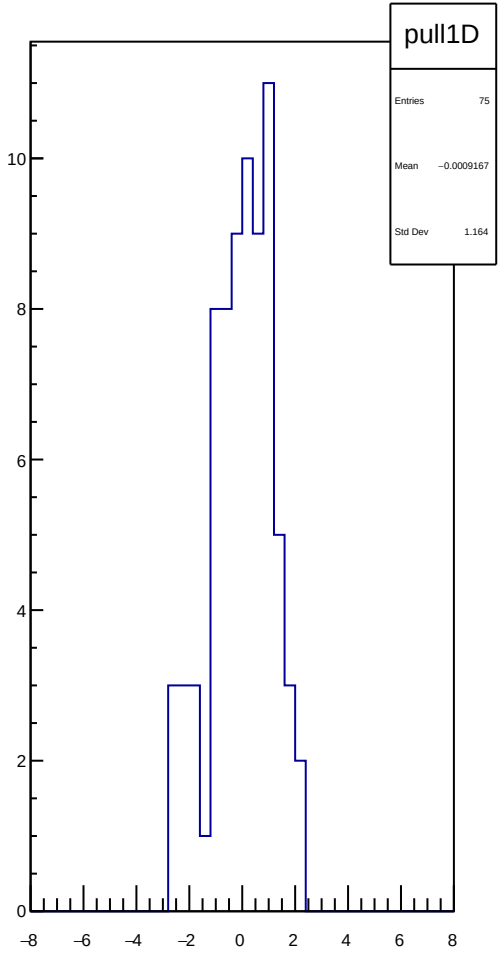

asym_atr2_rms vs run
χ² / ndf 1886 / 74
p0 1.365e+04 ± 11.36
15000
14500
14000
13500
13000
12500
12000

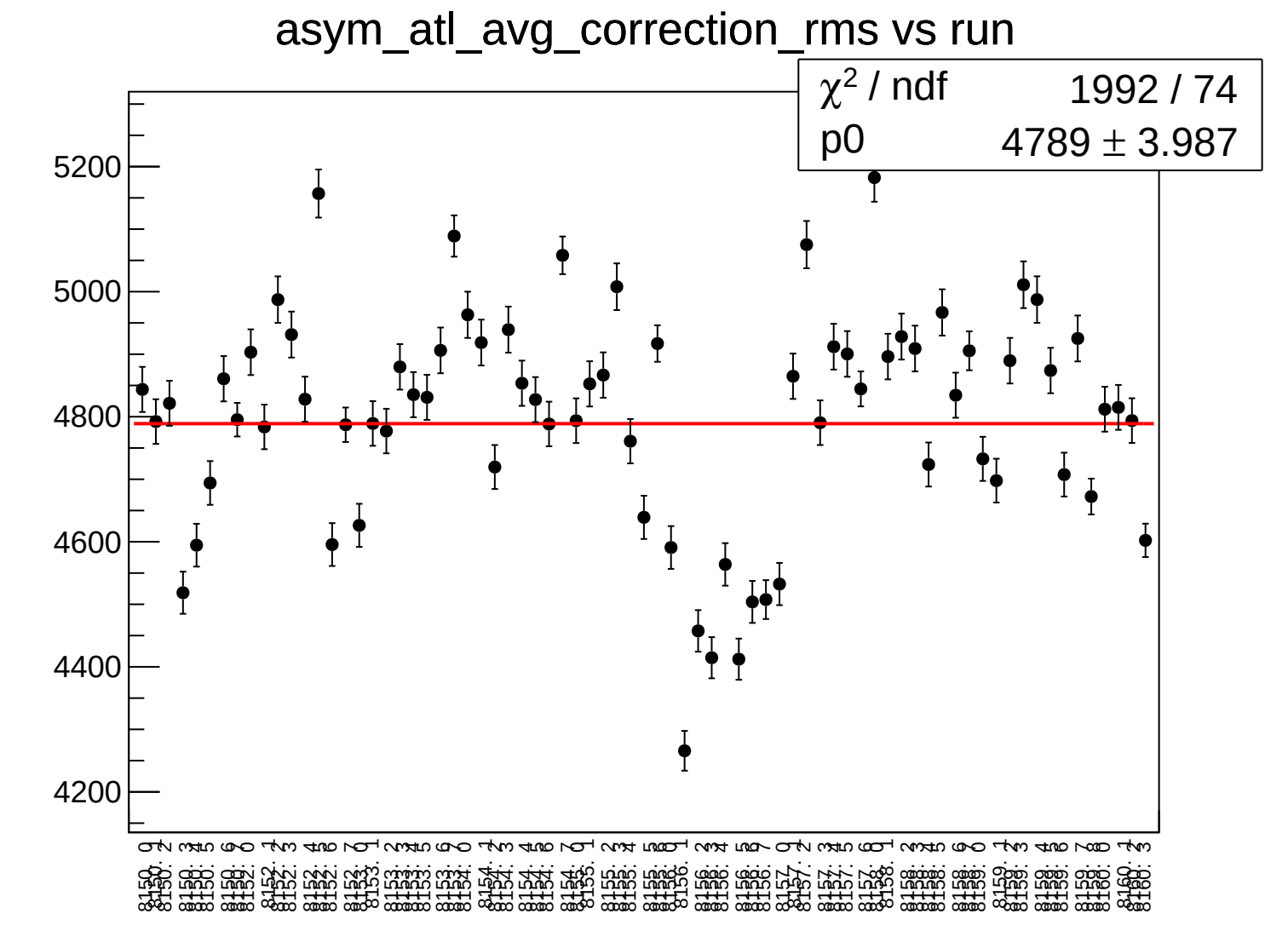

reg_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 68.73 / 74
p0 −208.1± 1990
pull
Entries 75
Mean 14.98
Std Dev 33.59

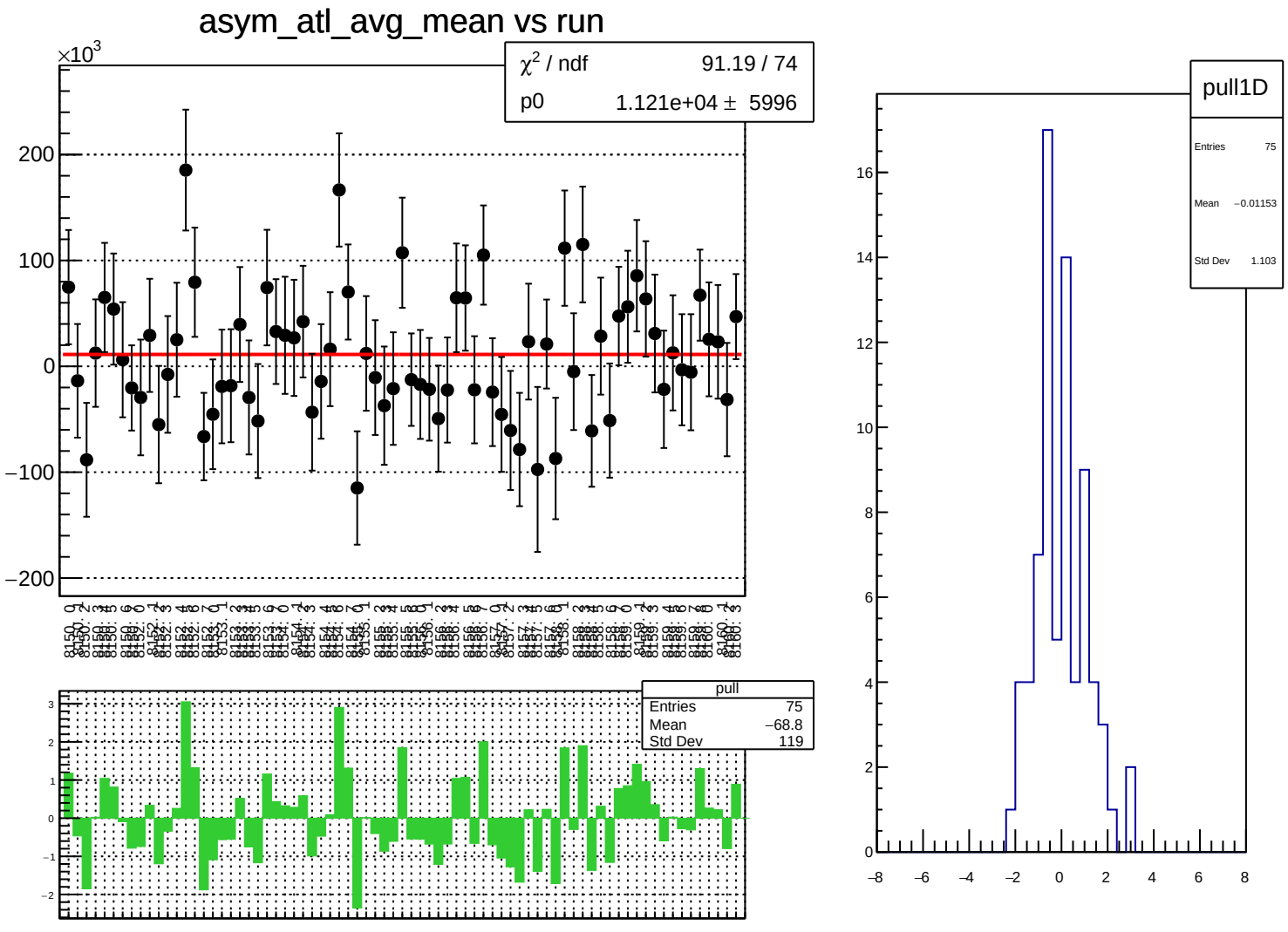

pull1D
Entries 75
Mean −0.02096
Std Dev 0.957

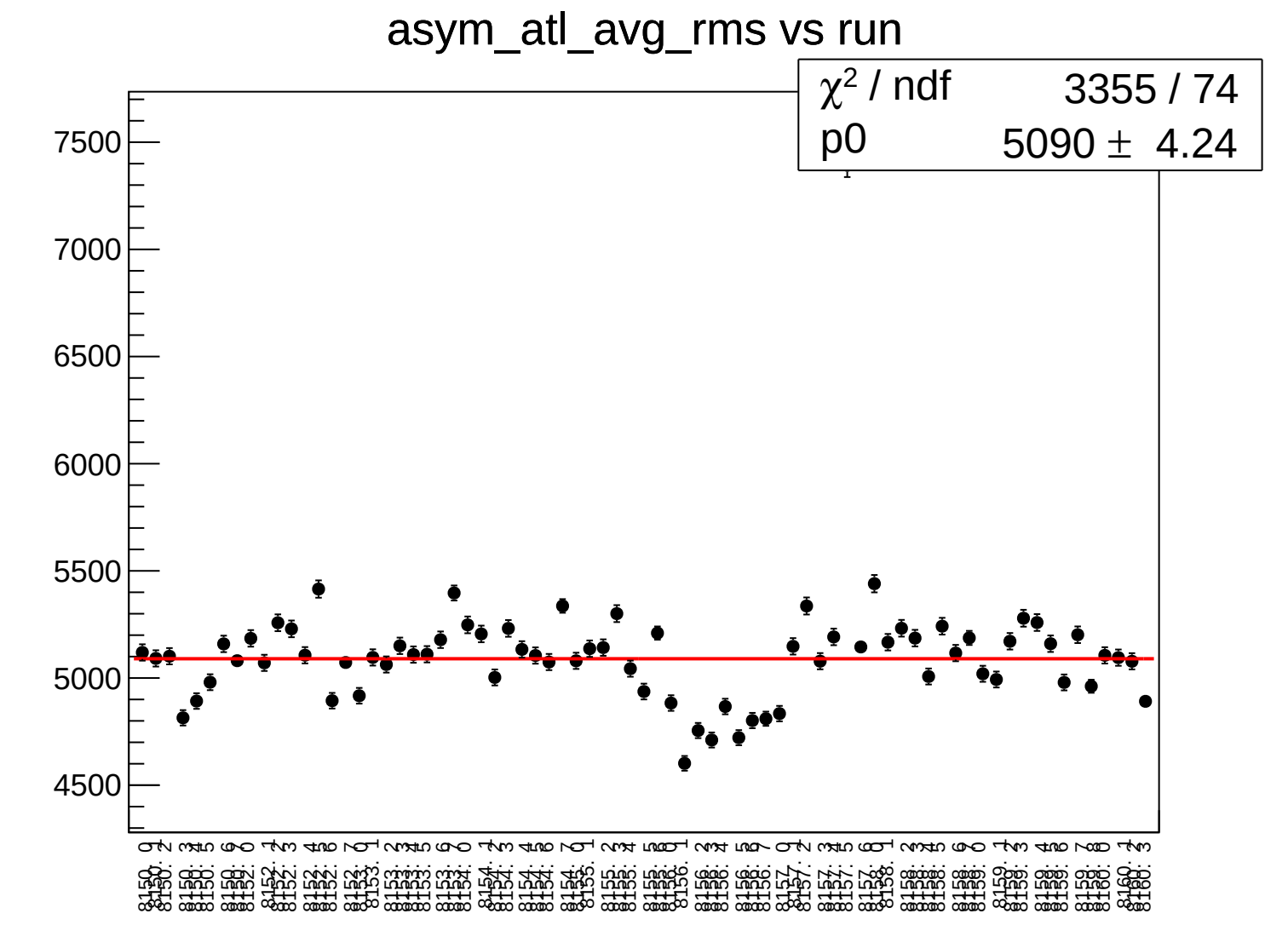

reg_asym_atl_avg_rms vs run
χ^2 / ndf 9138 / 74
p0 1686 ± 1.407
5500
5000
4500
4000
3500
3000
2500
2000
1500

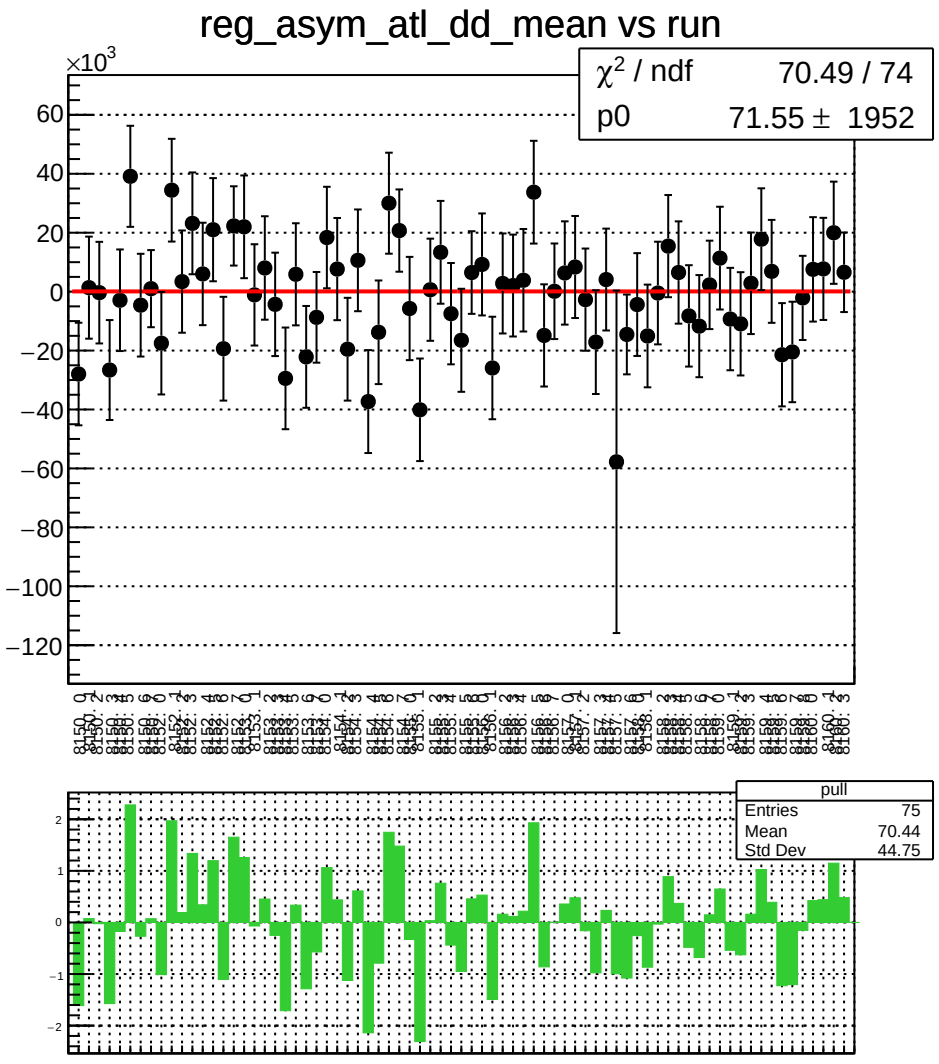

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 101.6 / 74
p0 −1.104e+04 ± 5639
150
100
50
0
−50
−100
−150
−200
pull
Entries 75
Mean 1255
Std Dev 1203
2
1
0
−1
−2

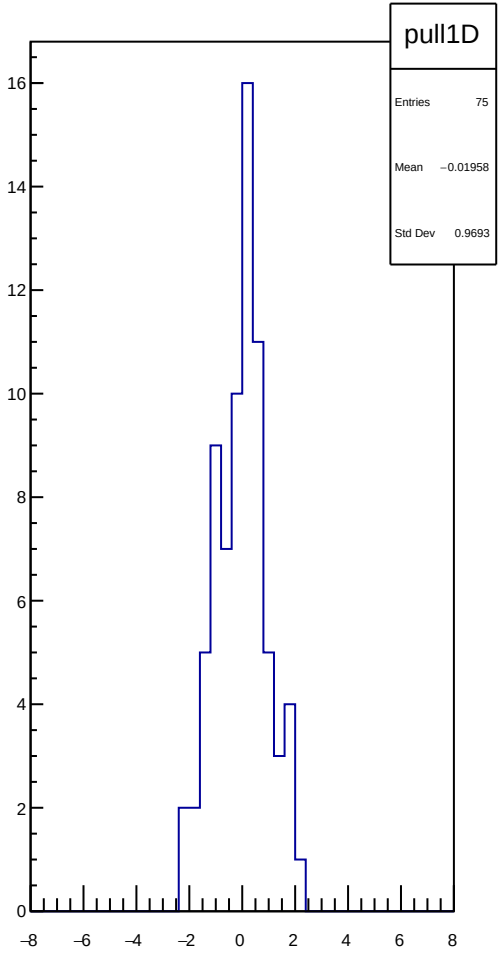

pull1D
Entries 75
Mean −0.0009167
Std Dev 1.164
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

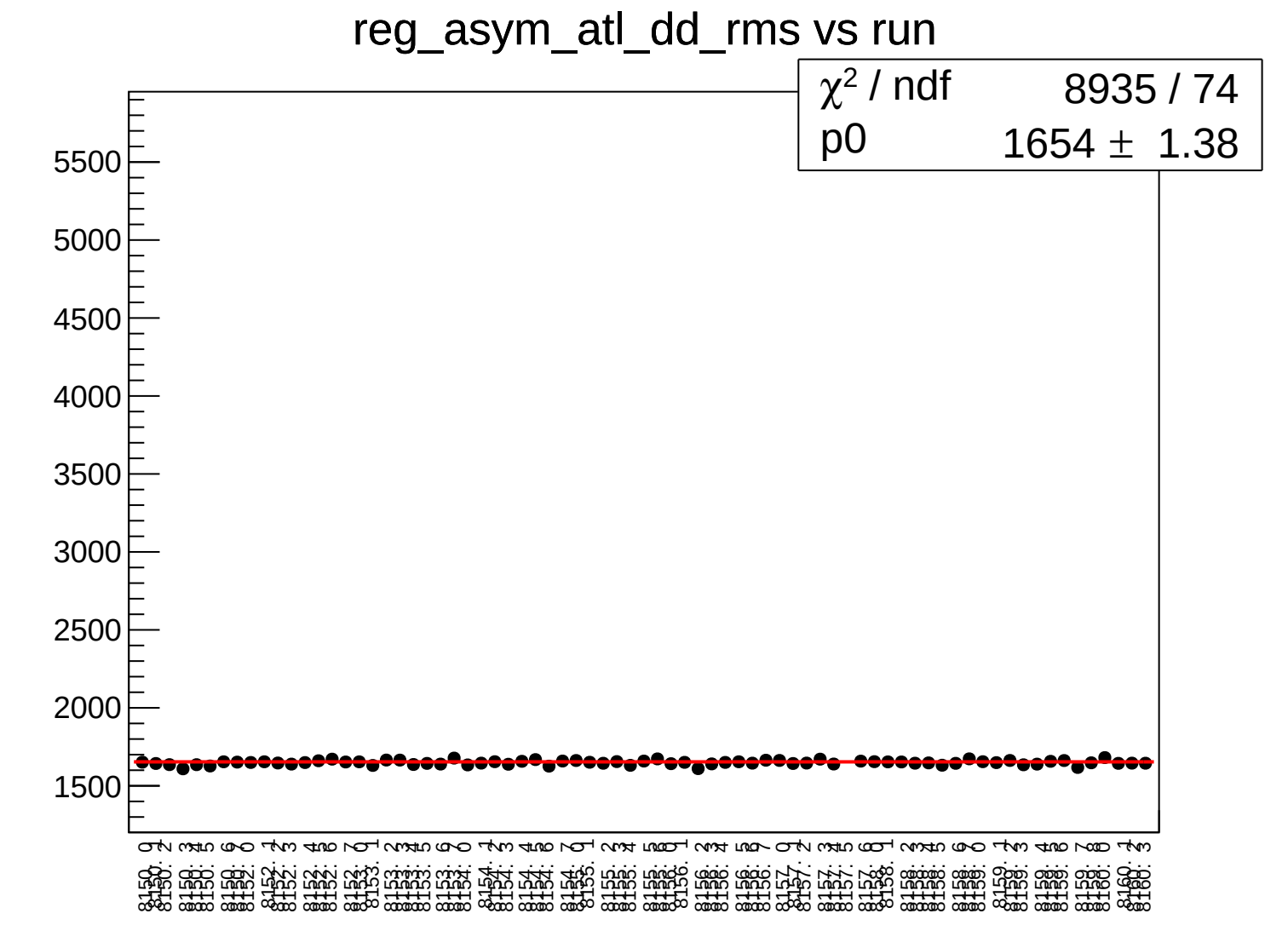

asym_atl_avg_correction_rms vs run
χ² / ndf 1992 / 74
p0 4789 ± 3.987
5200
5000
4800
4600
4400
4200

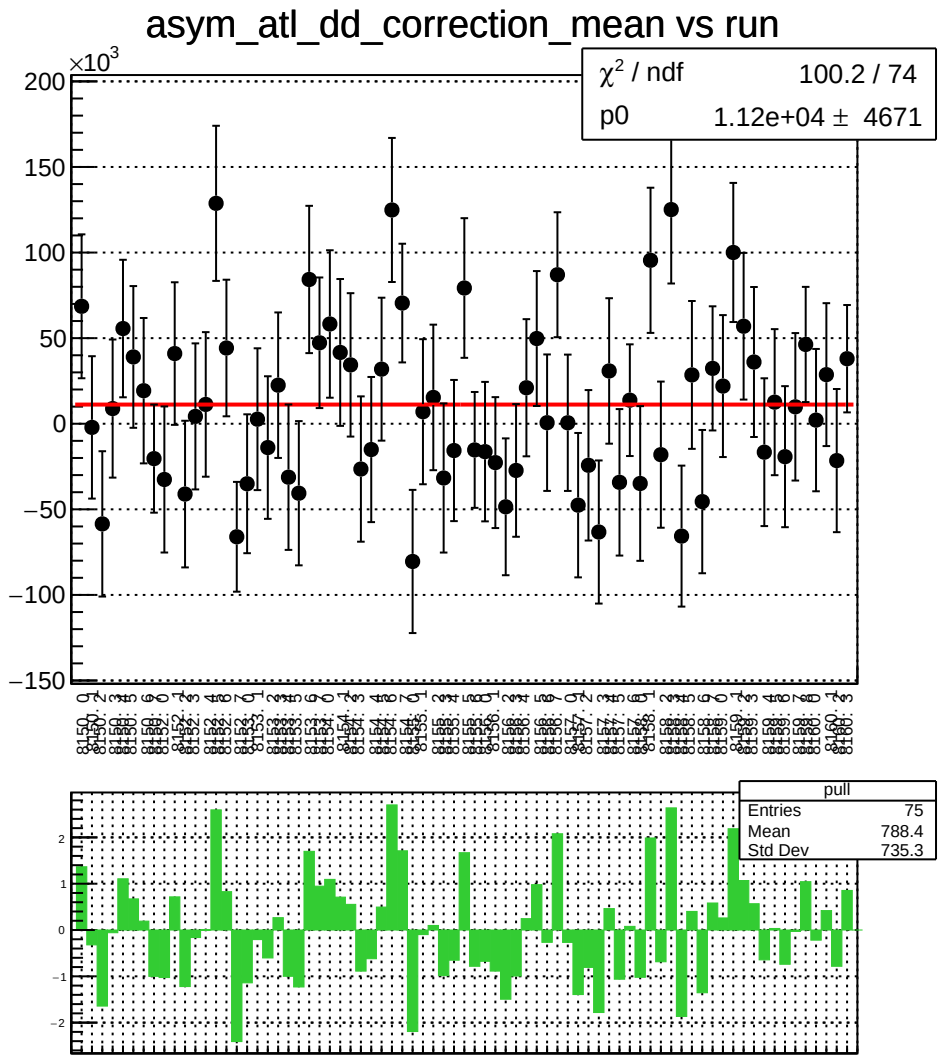

asym_atl_avg_mean vs run
×10^3
χ² / ndf 91.19 / 74
p0 1.121e+04 ± 5996
200
100
0
−100
−200
pull
Entries 75
Mean −68.8
Std Dev 119
3
2
1
0
−1
−2
pull1D
Entries 75
Mean −0.01153
Std Dev 1.103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

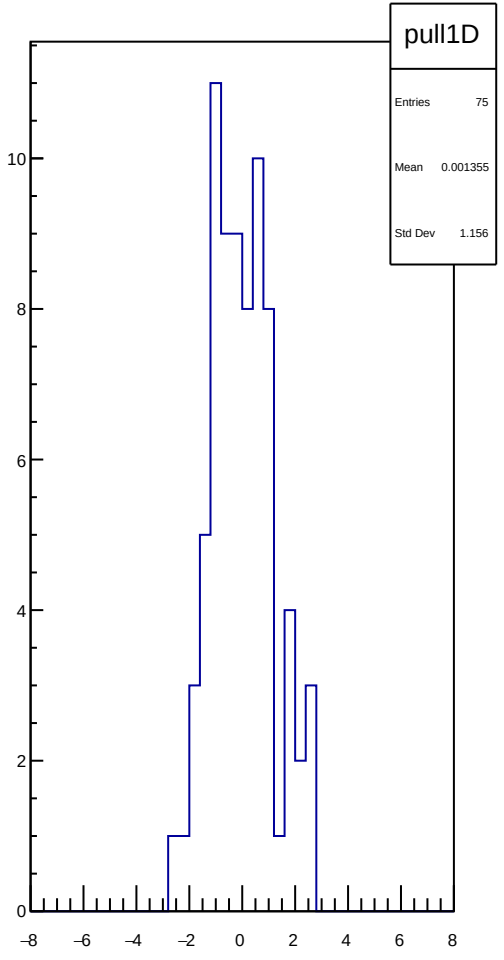

asym_atl_avg_rms vs run
χ² / ndf 3355 / 74
p0 5090 ± 4.24
7500
7000
6500
6000
5500
5000
4500

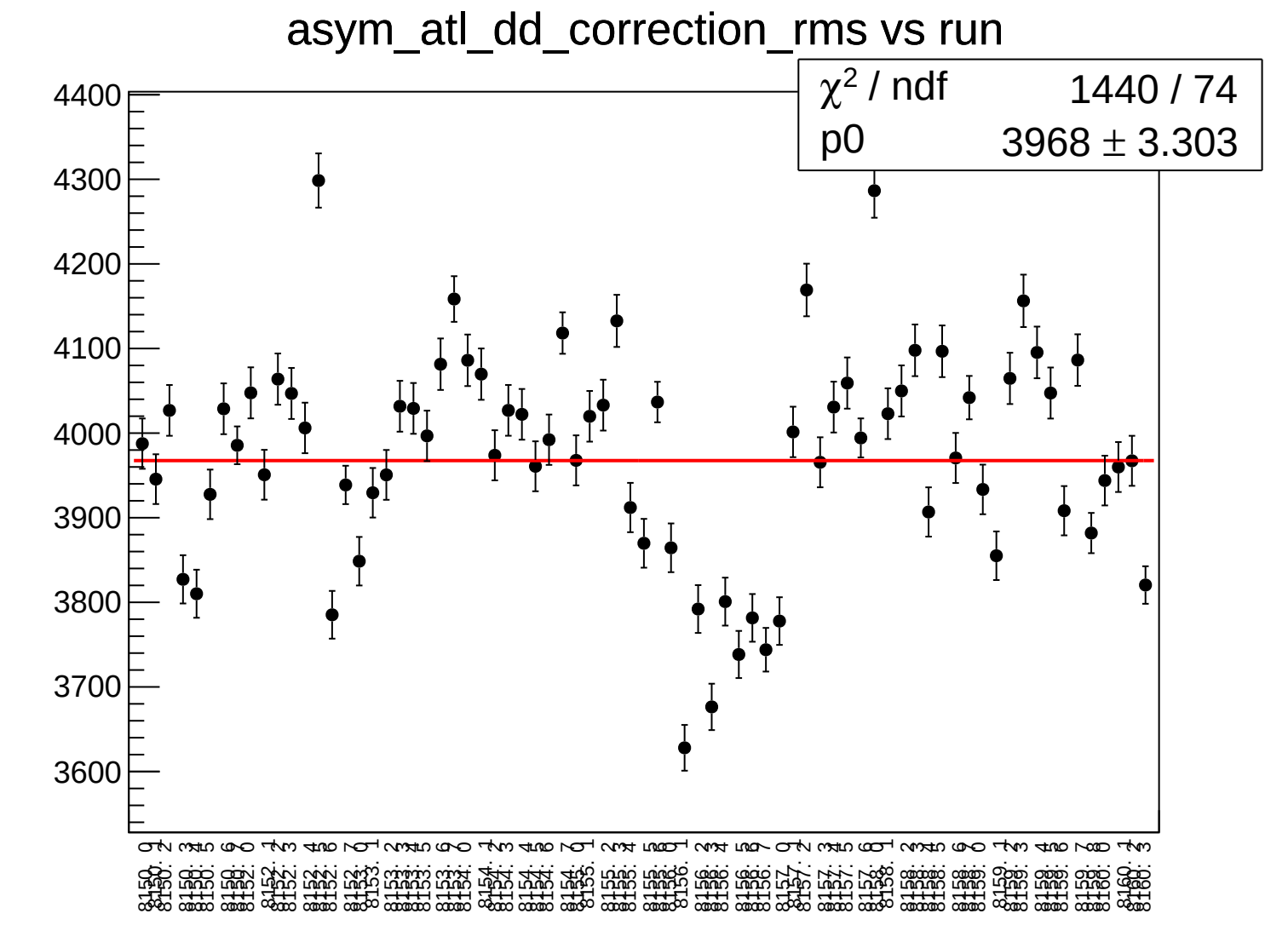

reg_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 70.49 / 74
p0 71.55 ± 1952
pull
Entries 75
Mean 70.44
Std Dev 44.75

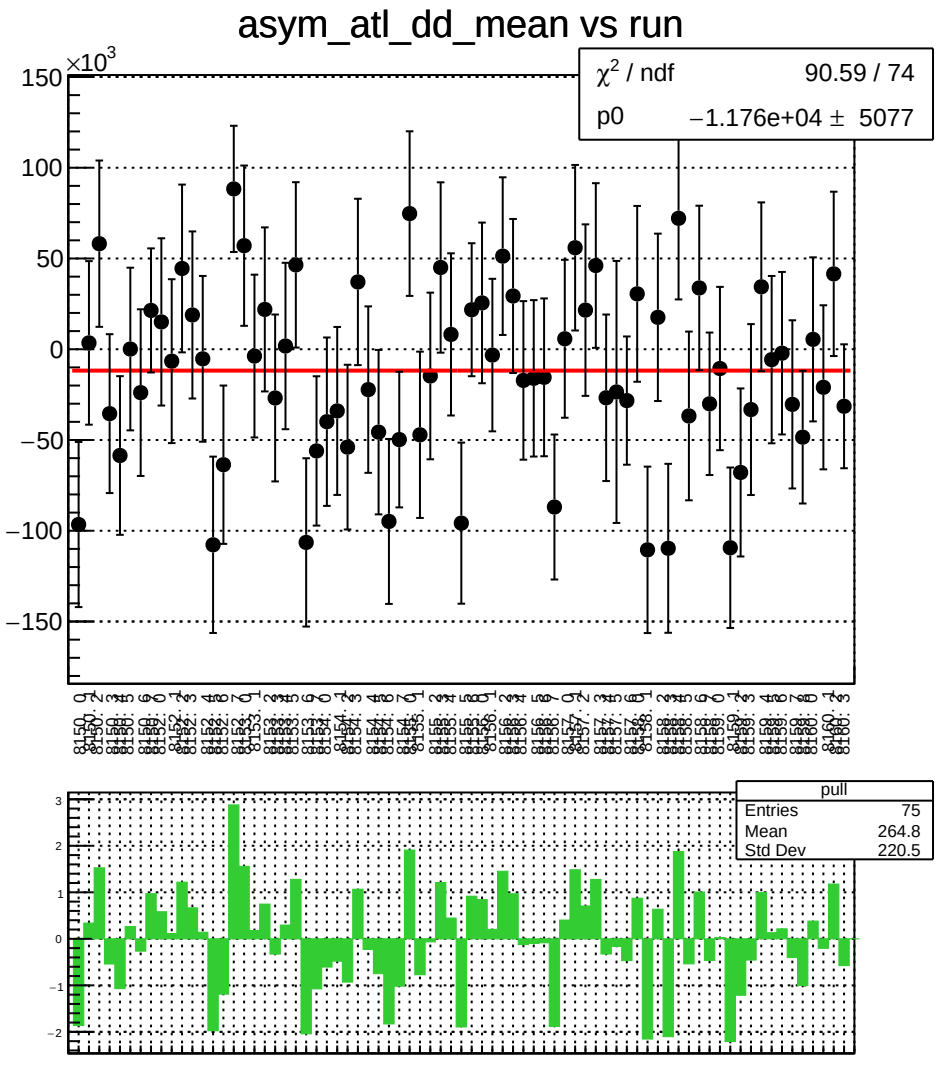

pull1D
Entries 75
Mean −0.01958
Std Dev 0.9693

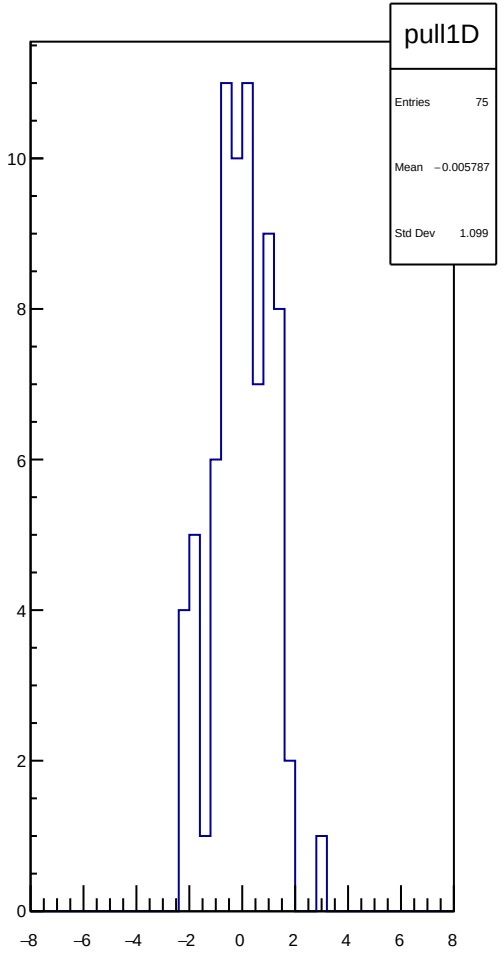

reg_asym_atl_dd_rms vs run
χ² / ndf 8935 / 74
p0 1654 ± 1.38
5500
5000
4500
4000
3500
3000
2500
2000
1500

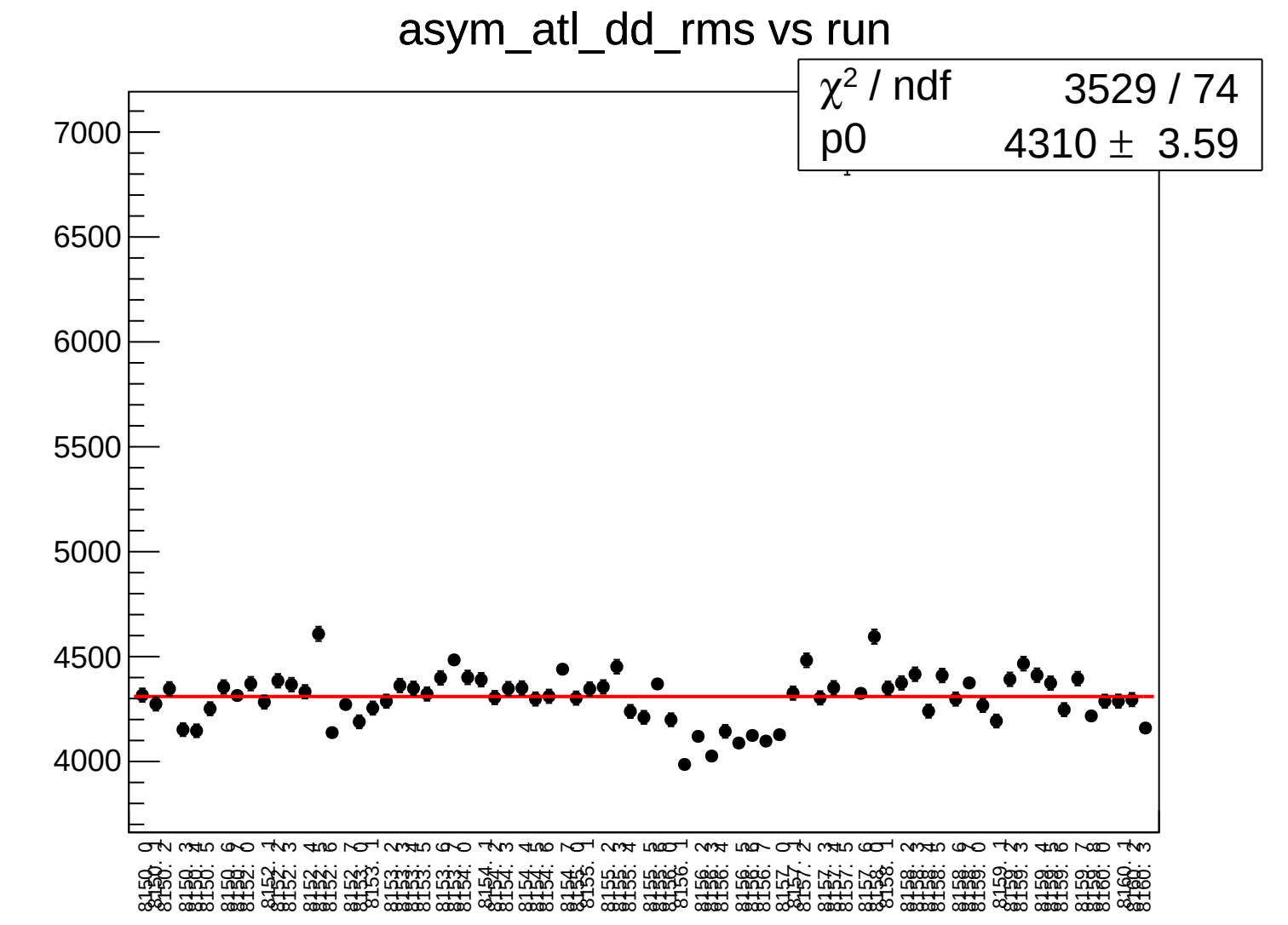

asym_atl_dd_correction_mean vs run
χ² / ndf 100.2 / 74
p0 1.12e+04 ± 4671
pull
Entries 75
Mean 788.4
Std Dev 735.3

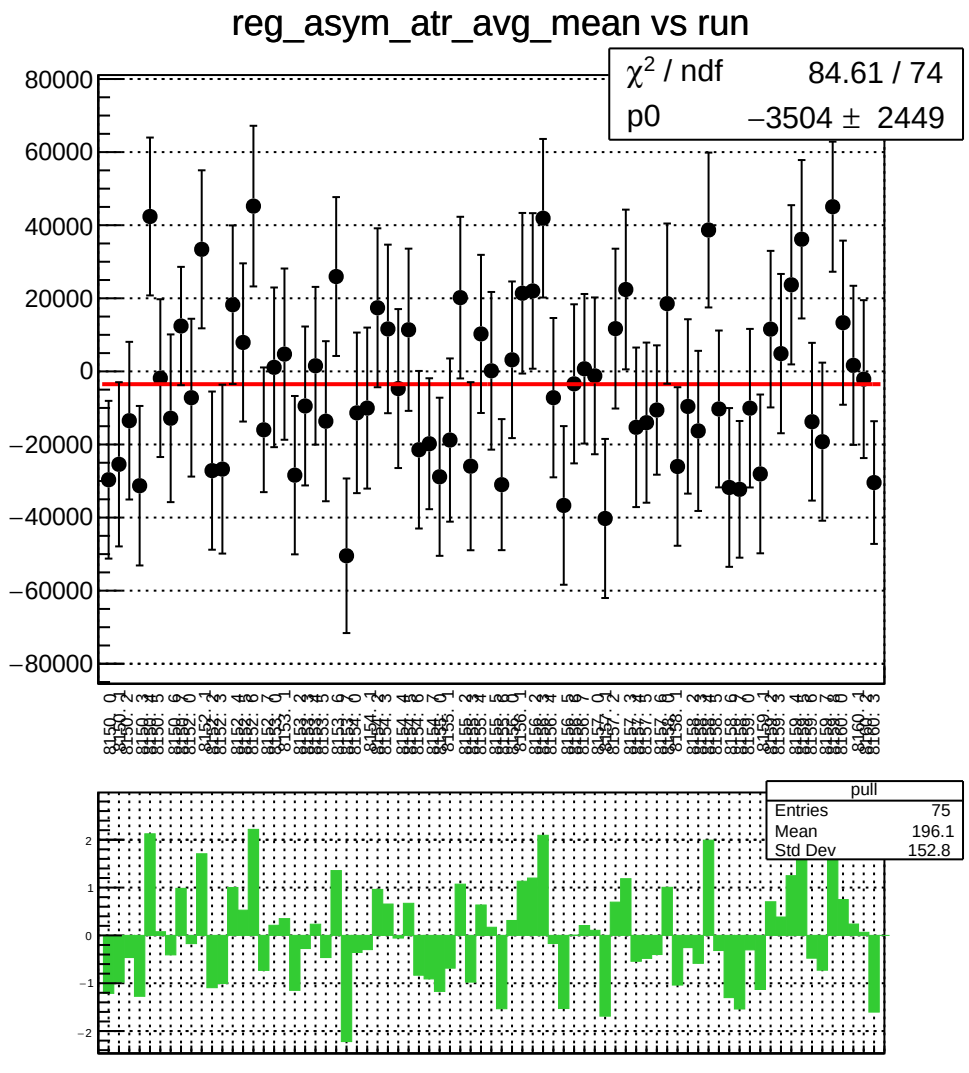

pull1D
Entries 75
Mean 0.001355
Std Dev 1.156

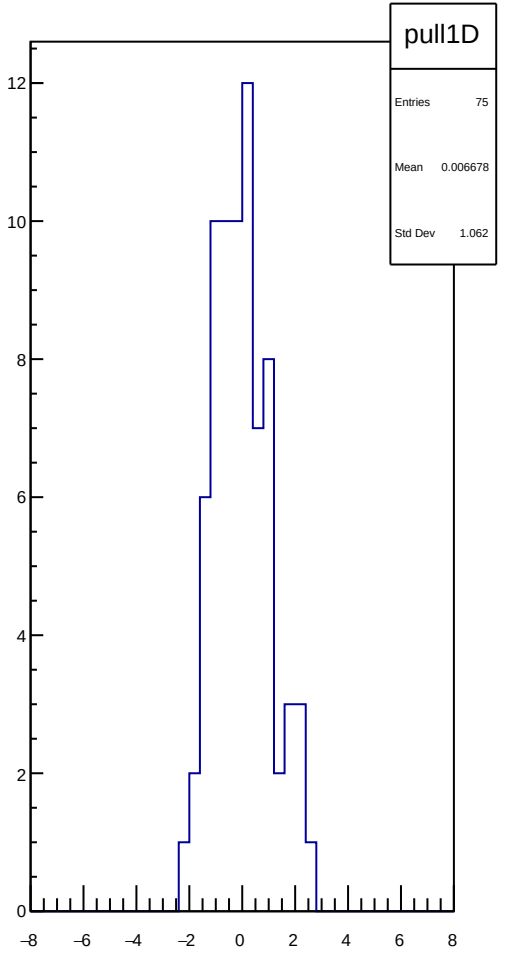

asym_atl_dd_correction_rms vs run
χ² / ndf 1440 / 74
p0 3968 ± 3.303
4400
4300
4200
4100
4000
3900
3800
3700
3600

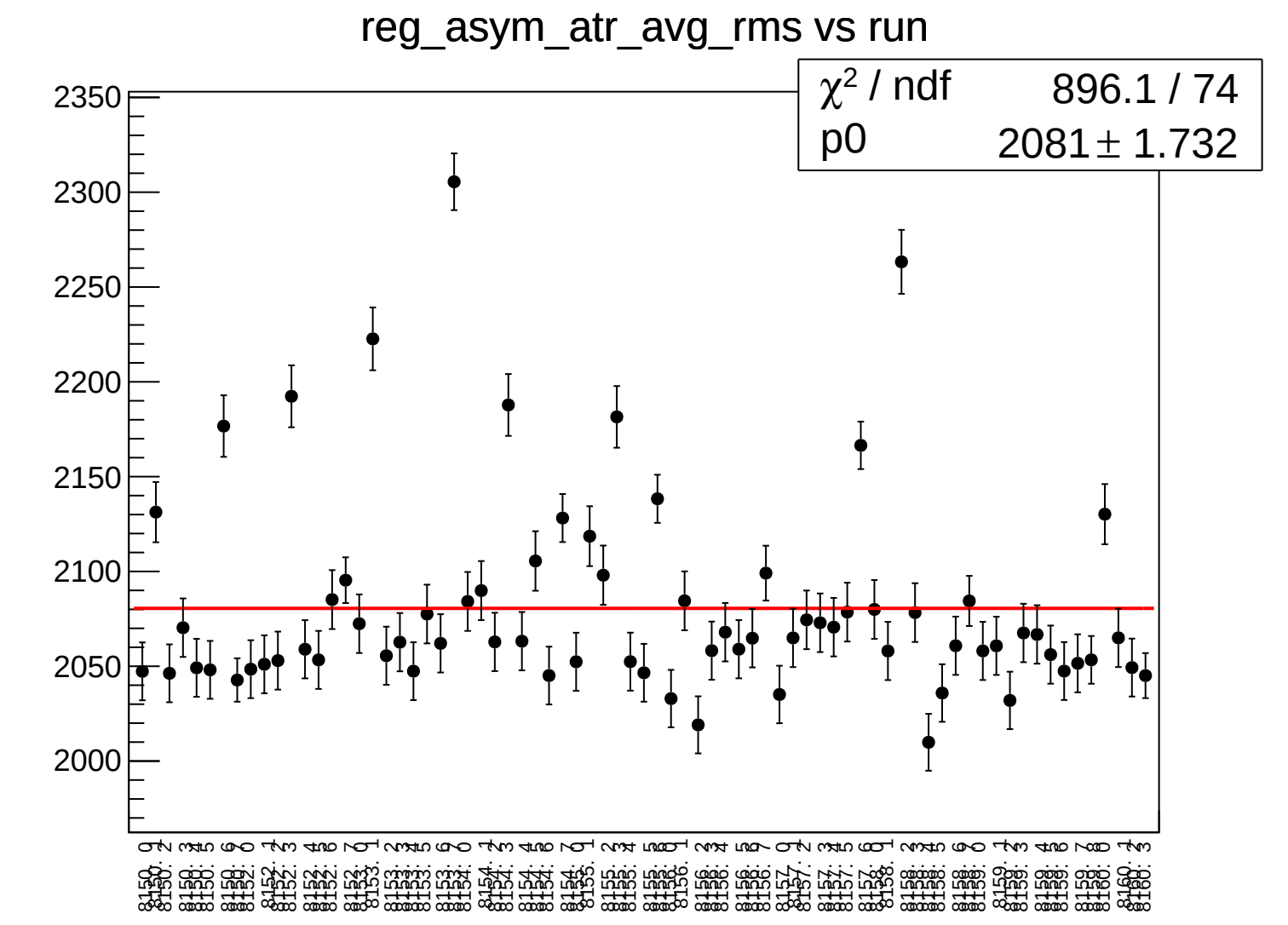

asym_atl_dd_mean vs run
×10^3
χ² / ndf 90.59 / 74
p0 −1.176e+04 ± 5077
pull
Entries 75
Mean 264.8
Std Dev 220.5

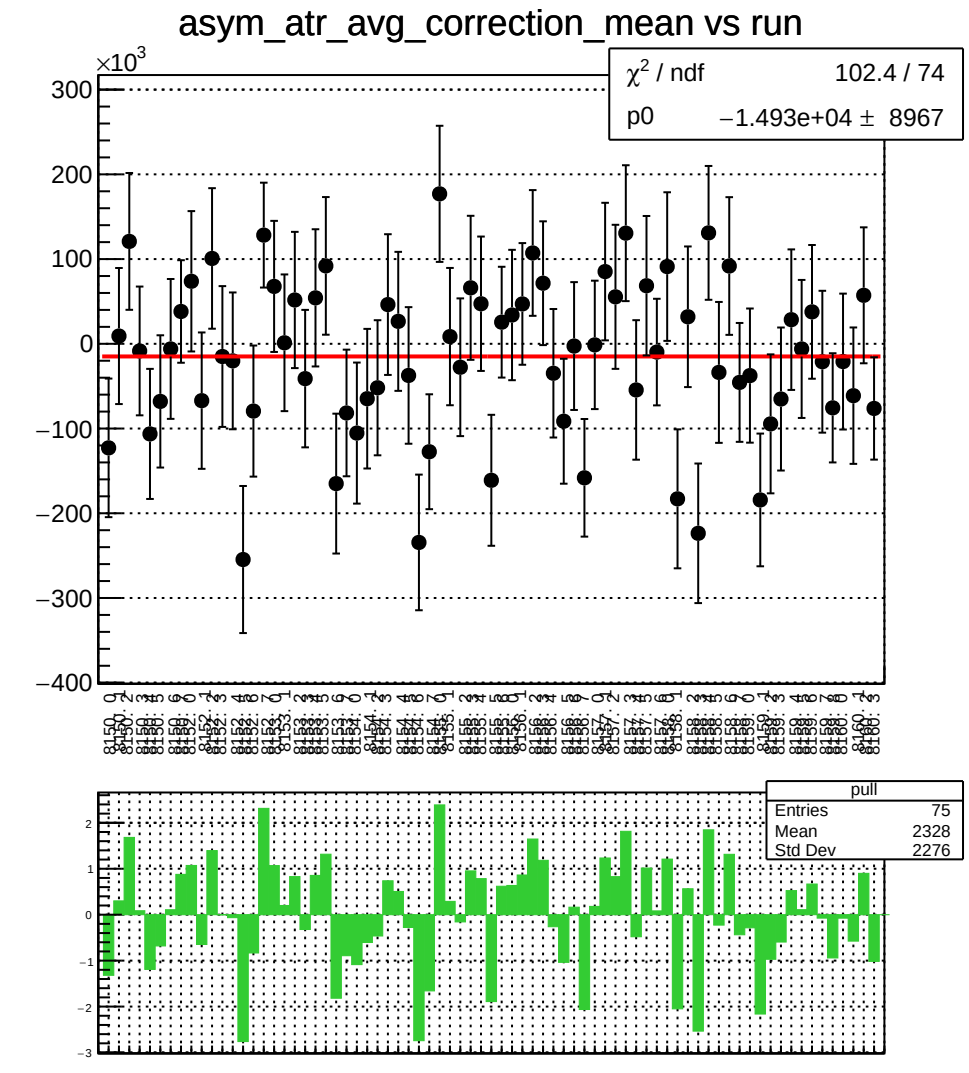

pull1D
Entries 75
Mean −0.005787
Std Dev 1.099

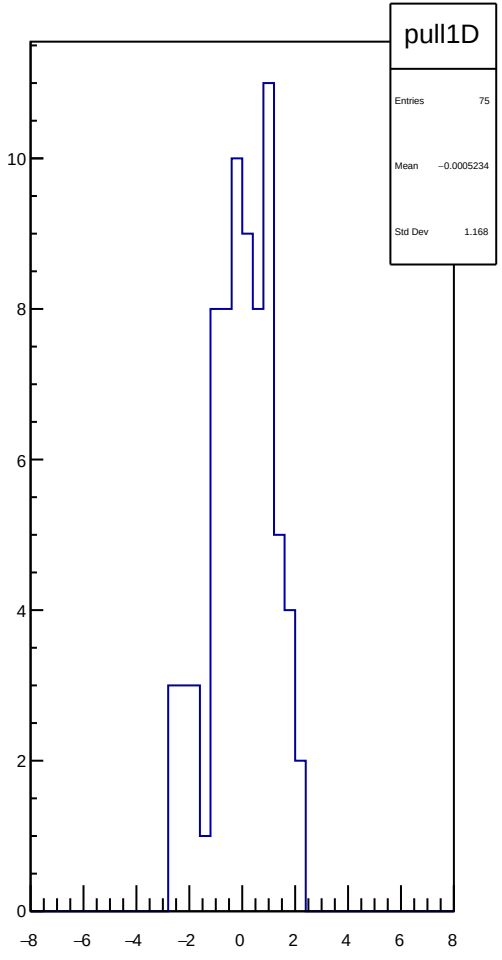

asym_atl_dd_rms vs run
χ² / ndf 3529 / 74
p0 4310 ± 3.59
7000
6500
6000
5500
5000
4500
4000

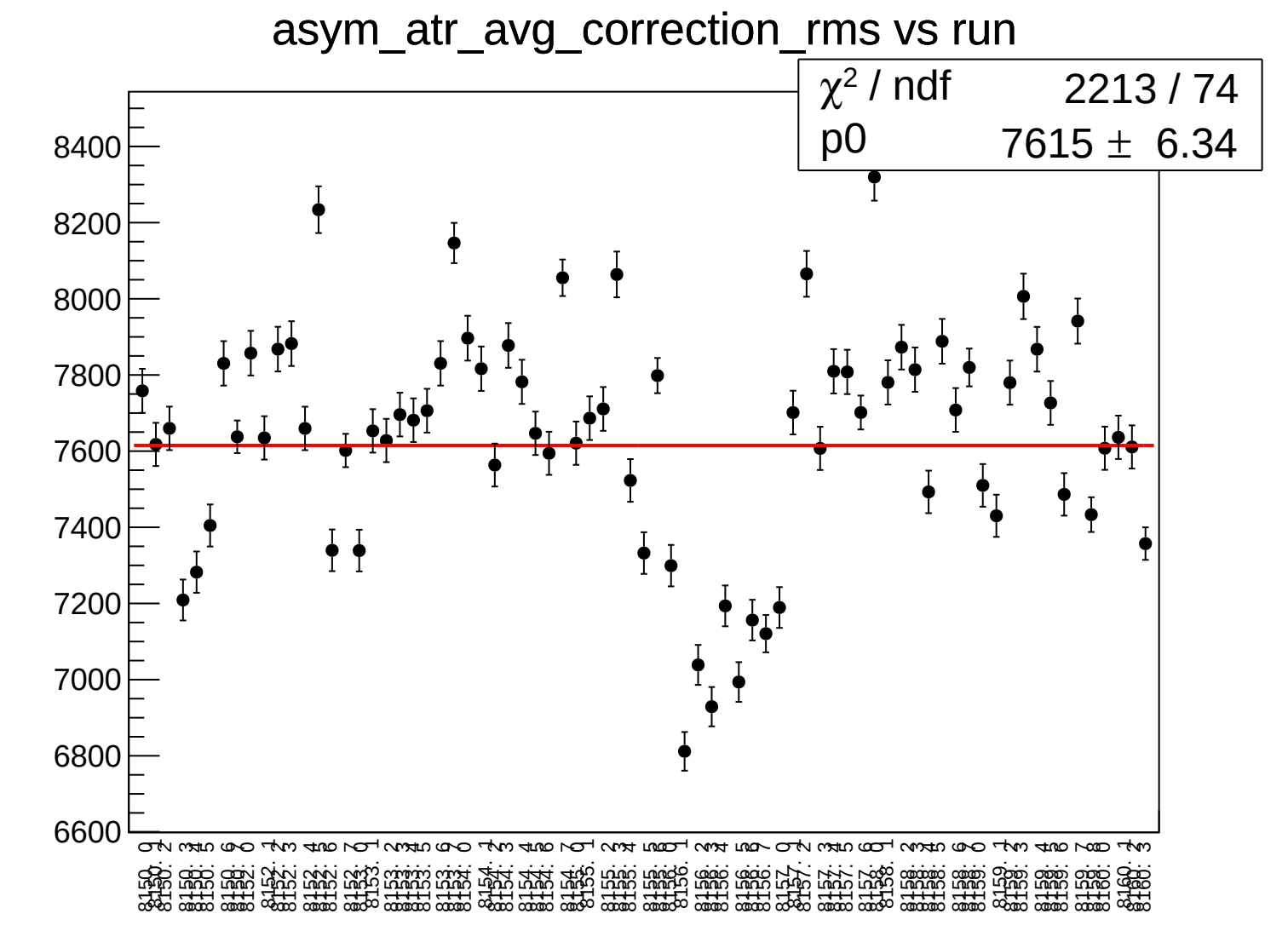

reg_asym_atr_avg_mean vs run
χ² / ndf 84.61 / 74
p0 −3504 ± 2449
pull
Entries 75
Mean 196.1
Std Dev 152.8

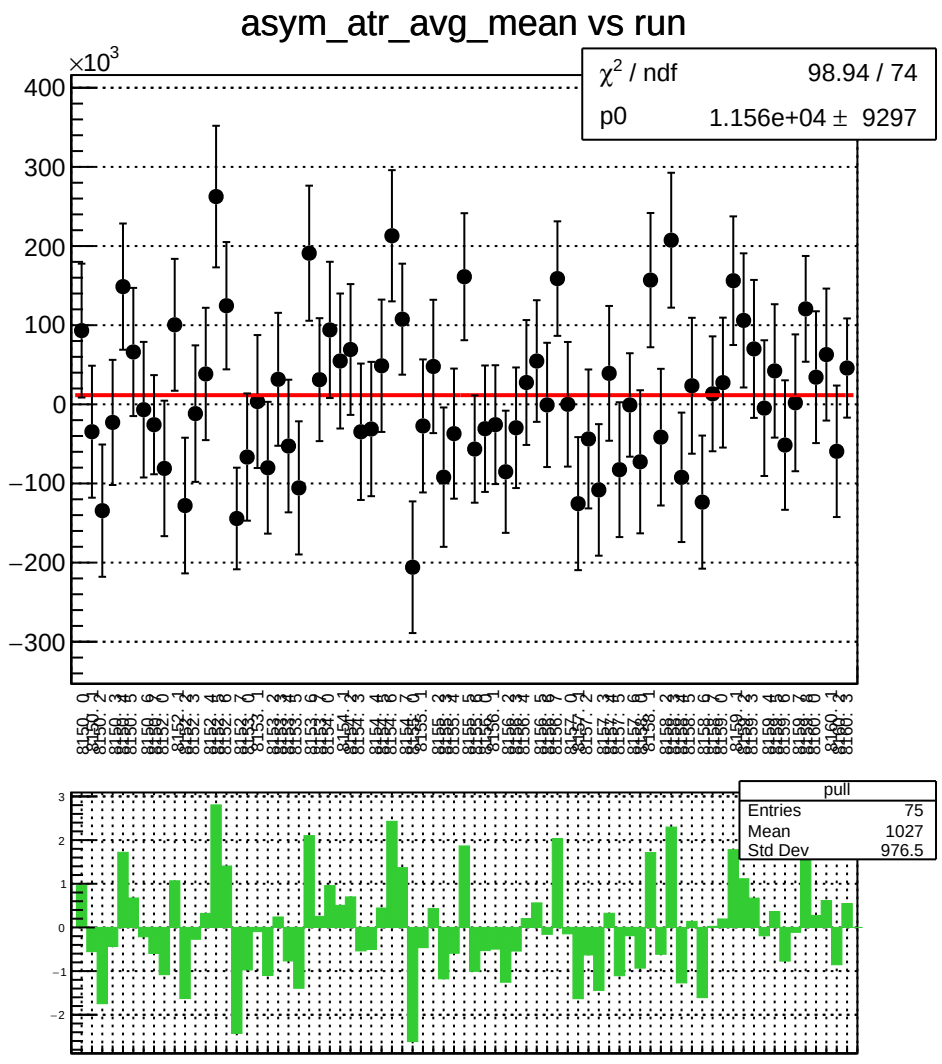

pull1D
Entries 75
Mean 0.006678
Std Dev 1.062

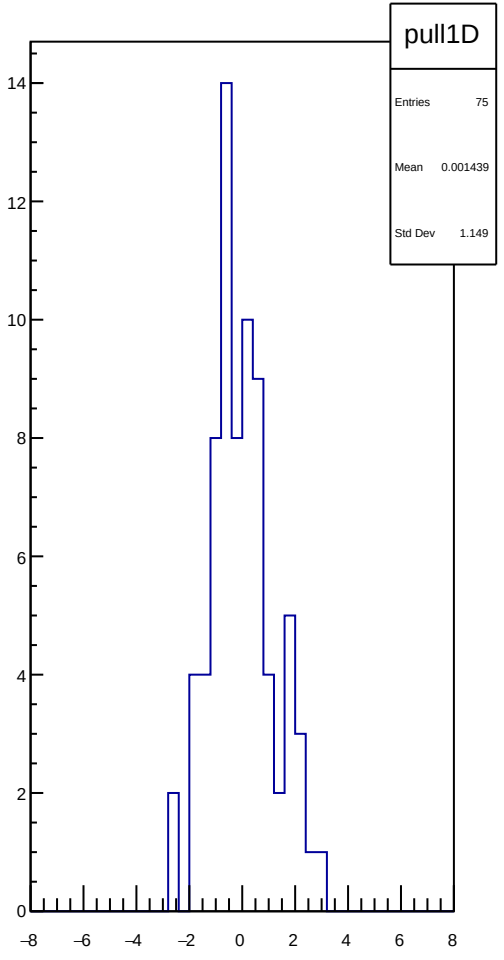

reg_asym_atr_avg_rms vs run
χ^2 / ndf 896.1 / 74
p0 2081 ± 1.732
2350
2300
2250
2200
2150
2100
2050
2000

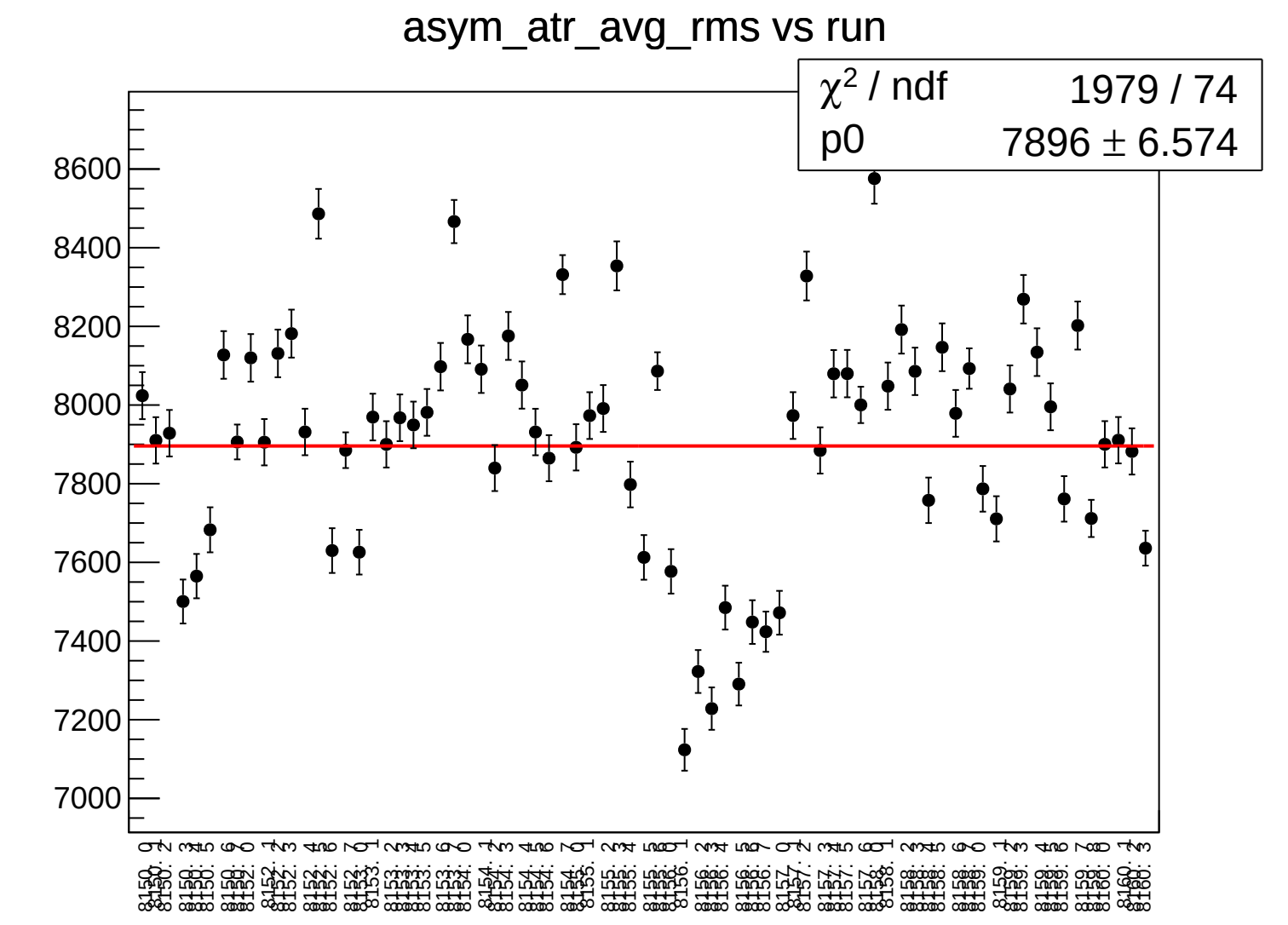

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 102.4 / 74
p0 −1.493e+04 ± 8967
pull
Entries 75
Mean 2328
Std Dev 2276

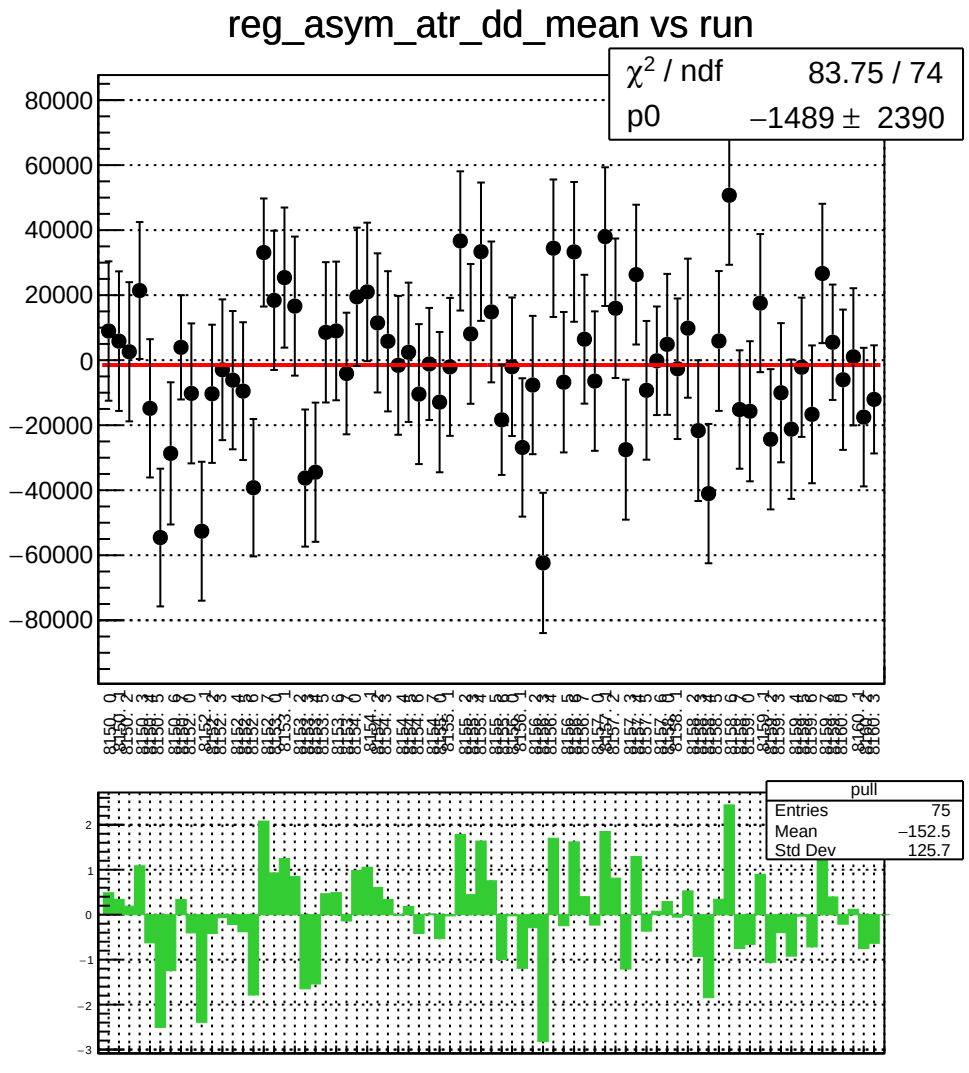

pull1D
Entries 75
Mean −0.0005234
Std Dev 1.168

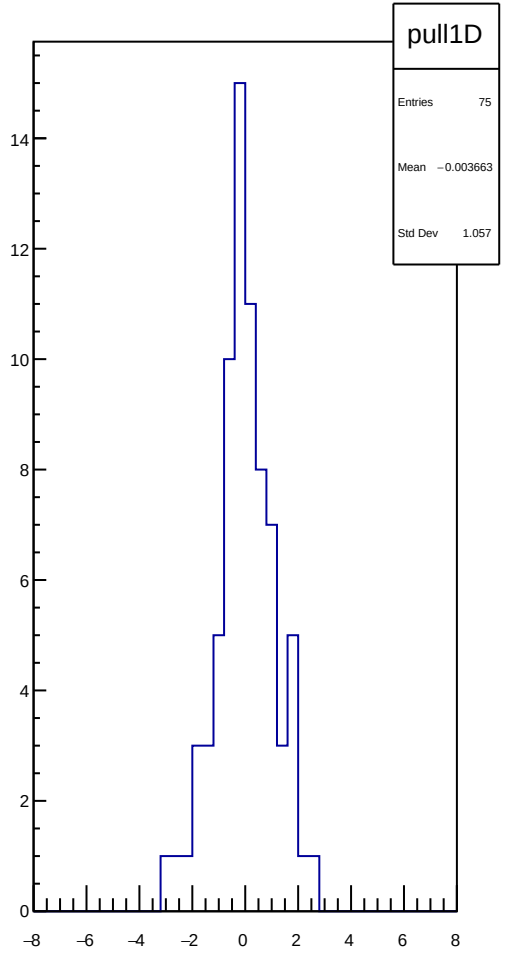

asym_atr_avg_correction_rms vs run
χ² / ndf 2213 / 74
p0 7615 ± 6.34
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

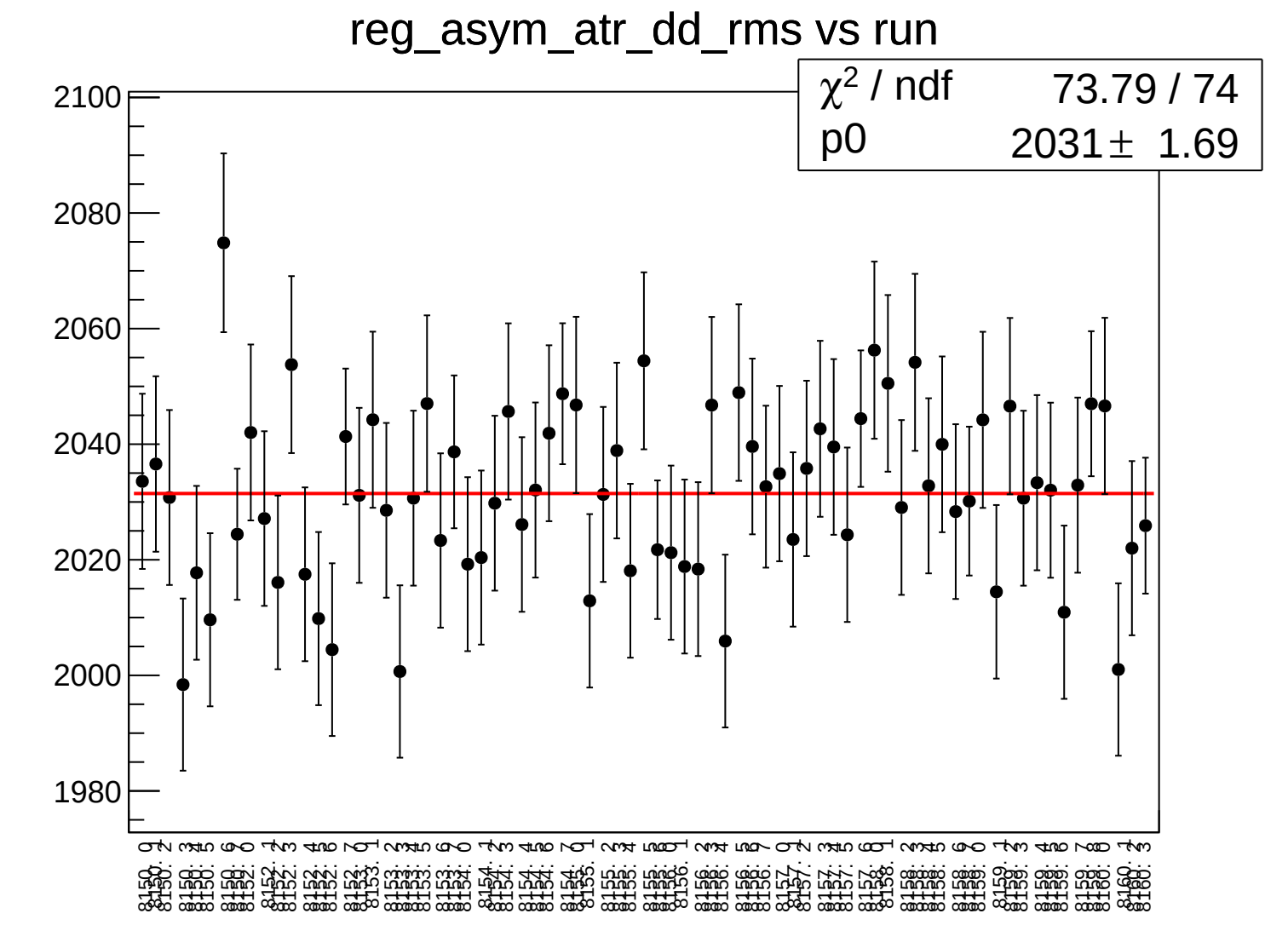

asym_atr_avg_mean vs run
×10^3
χ² / ndf 98.94 / 74
p0 1.156e+04 ± 9297
pull
Entries 75
Mean 1027
Std Dev 976.5

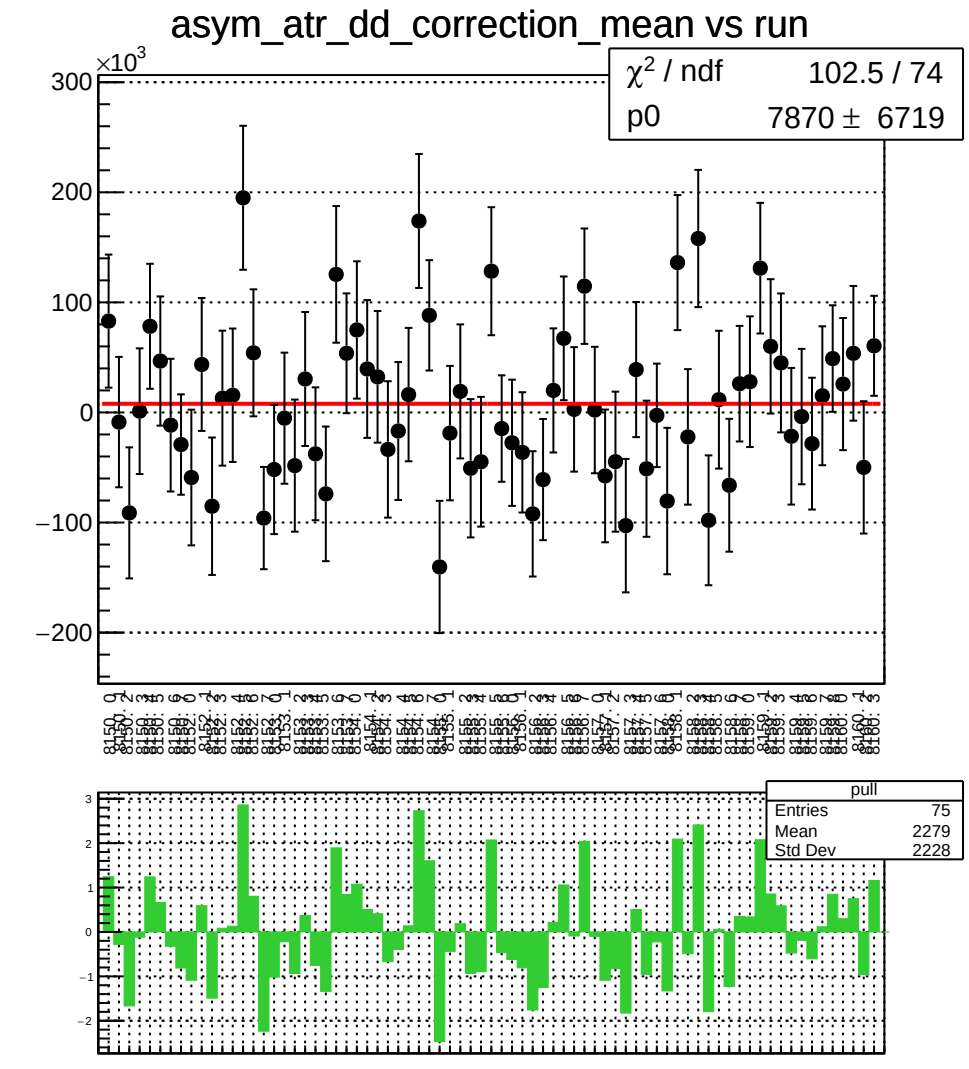

pull1D
Entries 75
Mean 0.001439
Std Dev 1.149

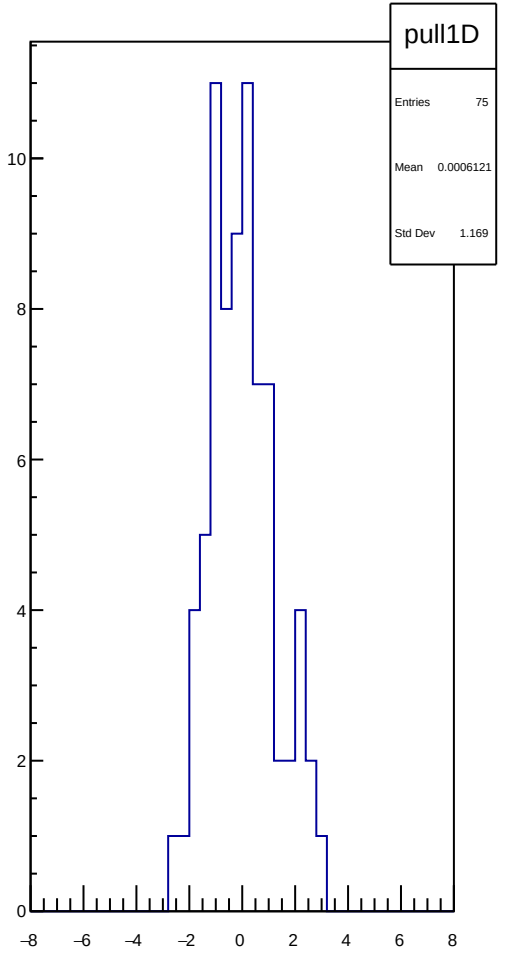

asym_atr_avg_rms vs run
χ² / ndf 1979 / 74
p0 7896 ± 6.574
8600
8400
8200
8000
7800
7600
7400
7200
7000

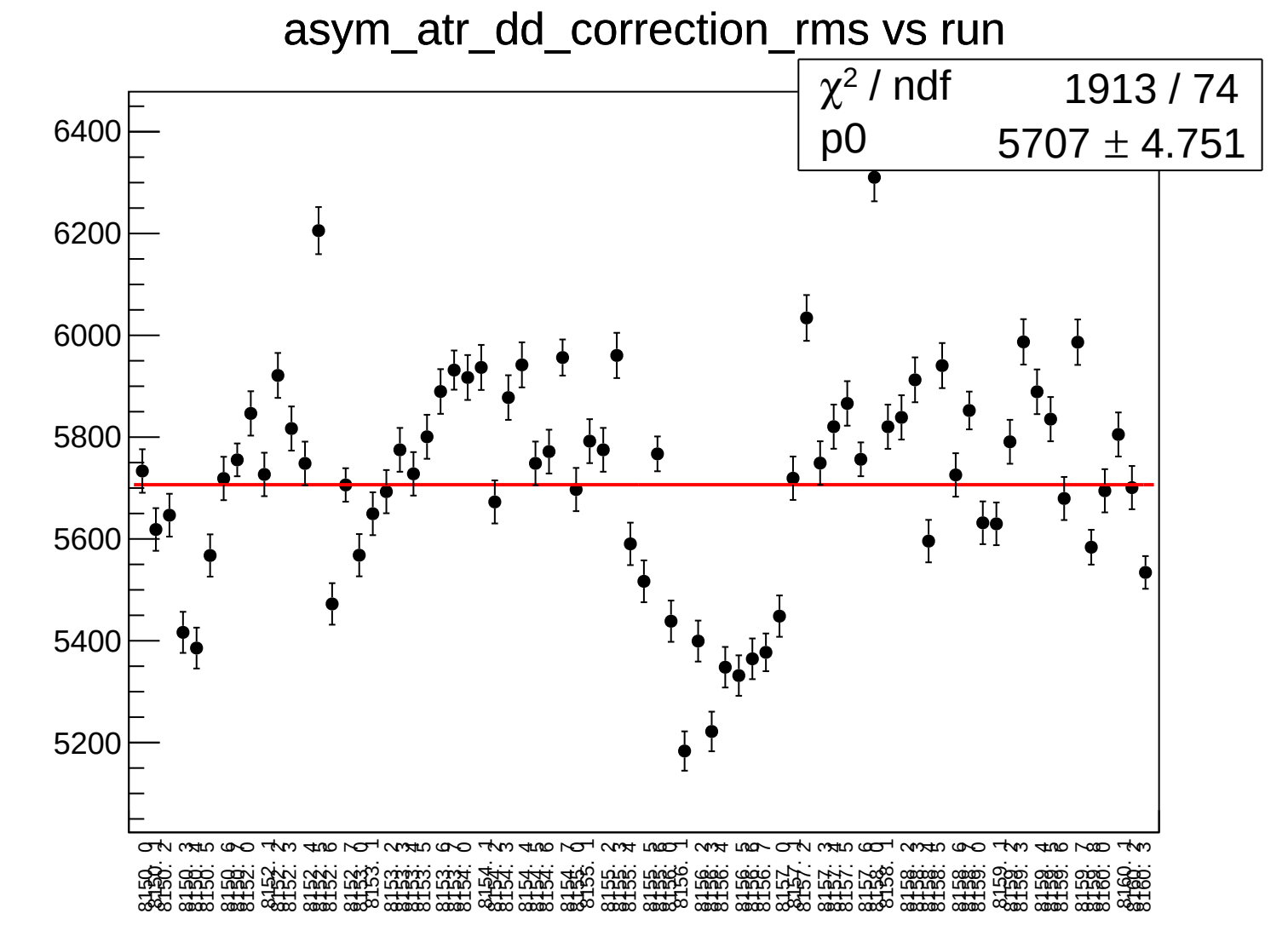

reg_asym_atr_dd_mean vs run
χ² / ndf 83.75 / 74
p0 −1489 ± 2390
pull
Entries 75
Mean −152.5
Std Dev 125.7

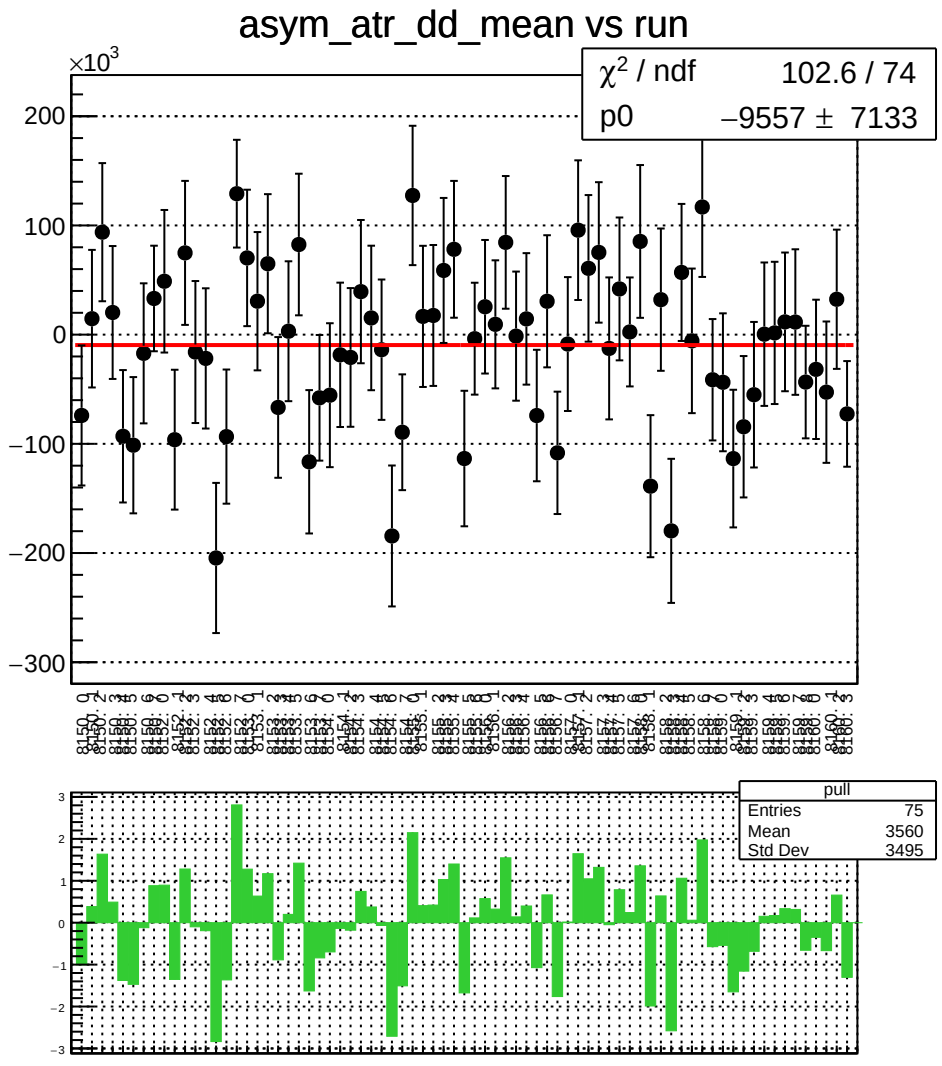

pull1D
Entries 75
Mean −0.003663
Std Dev 1.057

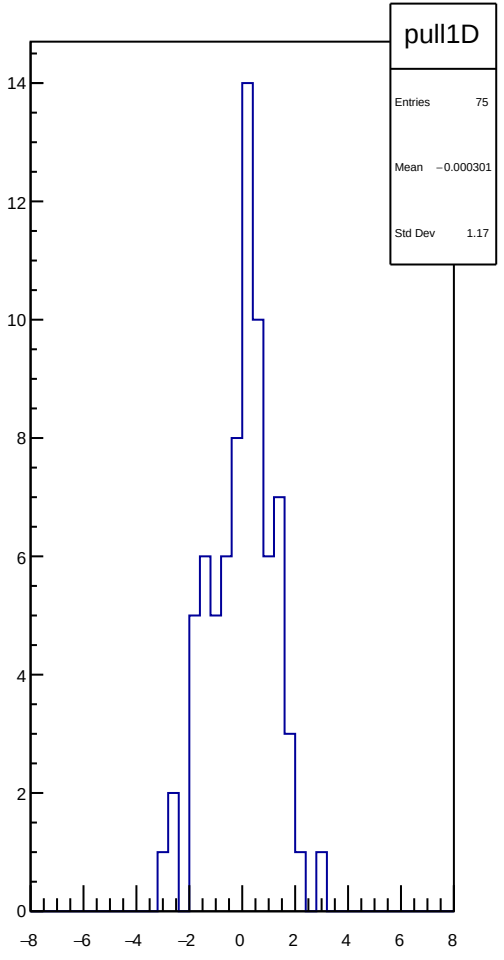

reg_asym_atr_dd_rms vs run
χ² / ndf 73.79 / 74
p0 2031 ± 1.69
2100
2080
2060
2040
2020
2000
1980

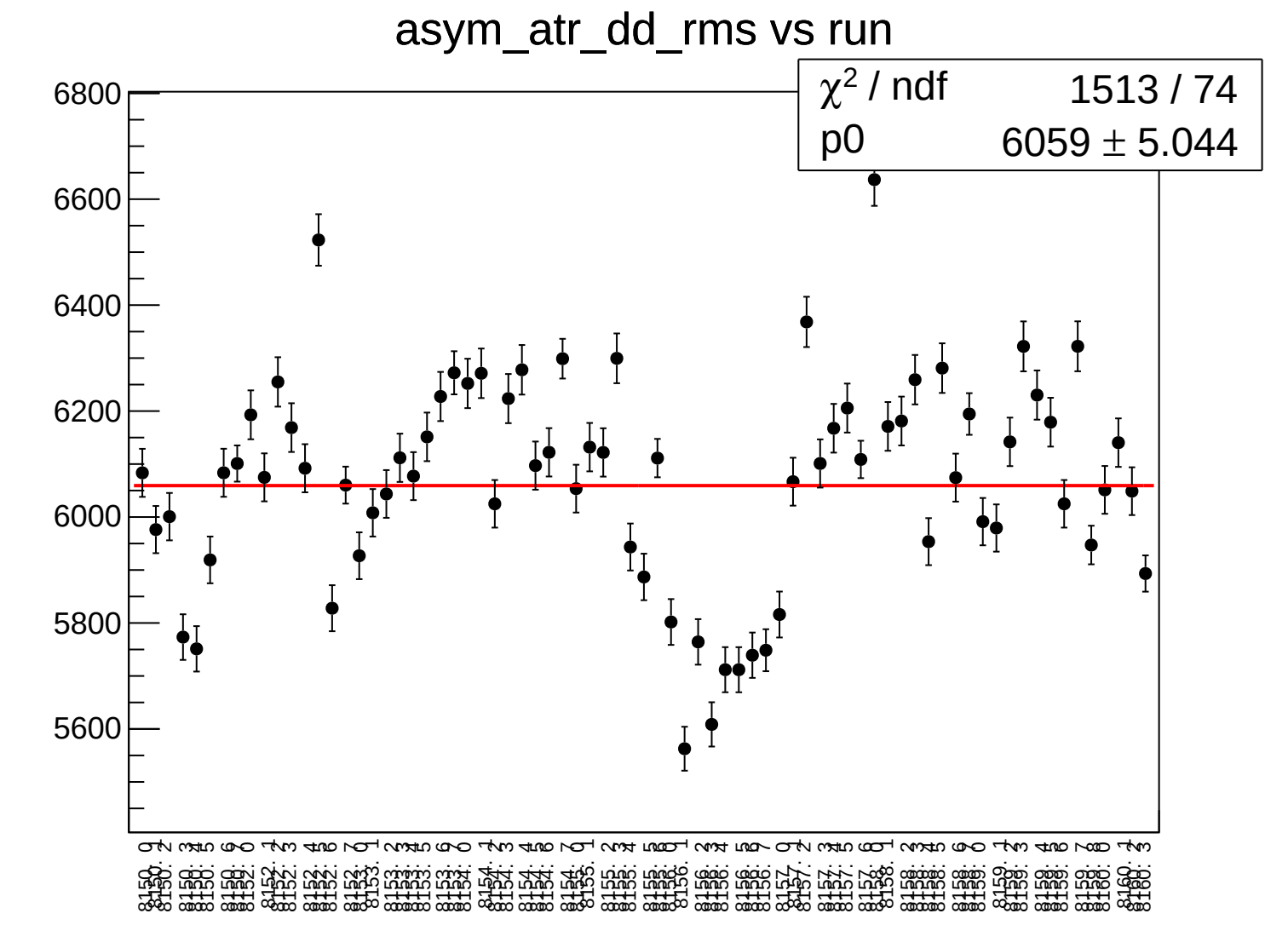

asym_atr_dd_correction_mean vs run
χ² / ndf 102.5 / 74
p0 7870 ± 6719
pull
Entries 75
Mean 2279
Std Dev 2228

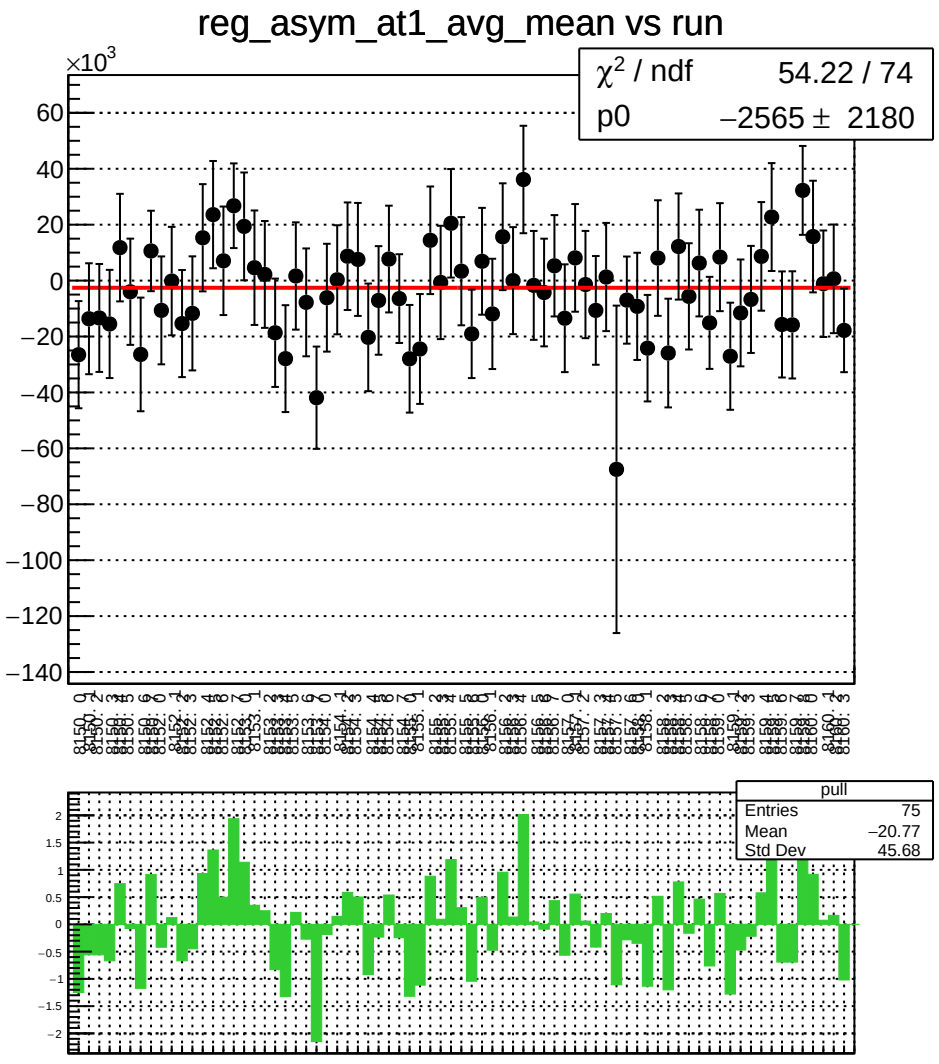

pull1D
Entries 75
Mean 0.0006121
Std Dev 1.169

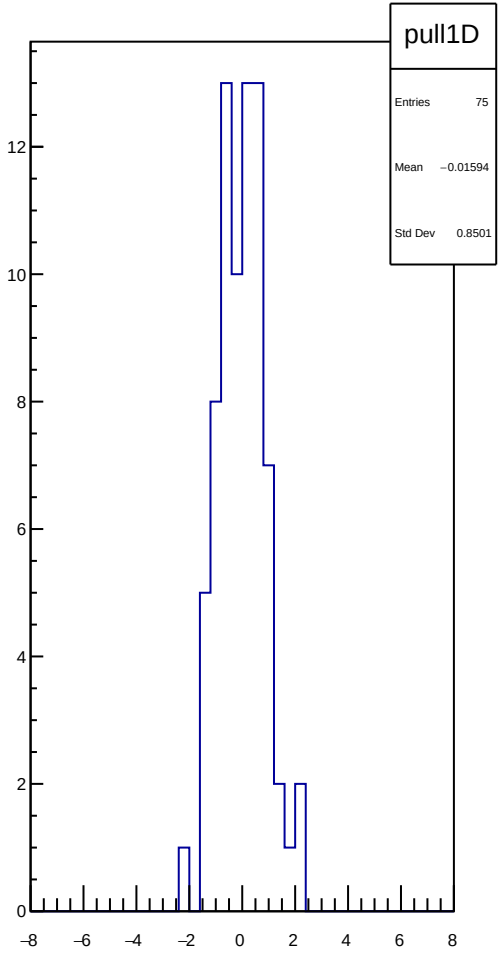

asym_atr_dd_correction_rms vs run
χ² / ndf 1913 / 74
p0 5707 ± 4.751
6400
6200
6000
5800
5600
5400
5200

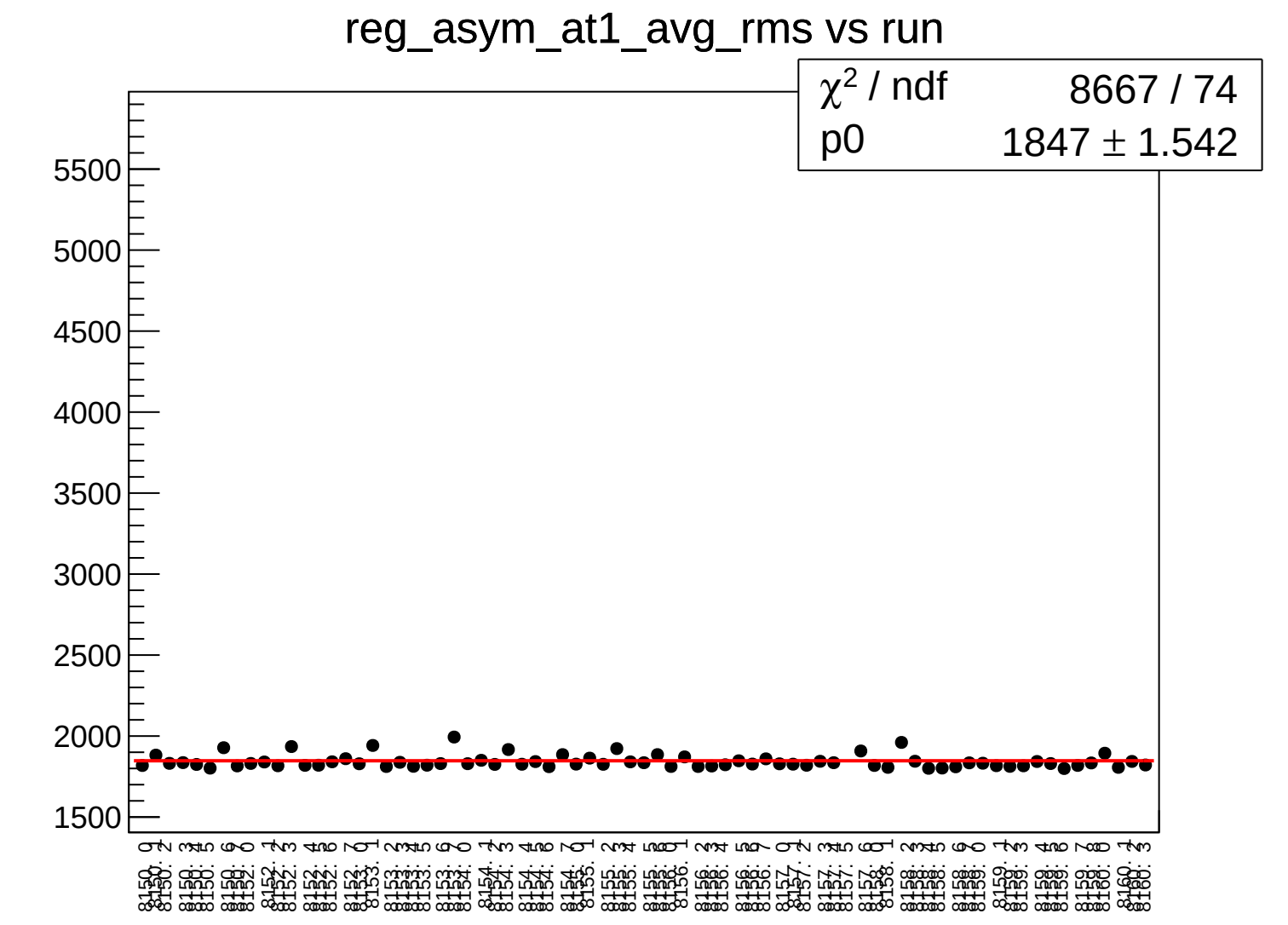

asym_atr_dd_mean vs run
×10^3
χ² / ndf 102.6 / 74
p0 −9557 ± 7133
200
100
0
−100
−200
−300
pull
Entries 75
Mean 3560
Std Dev 3495
3
2
1
0
−1
−2
−3

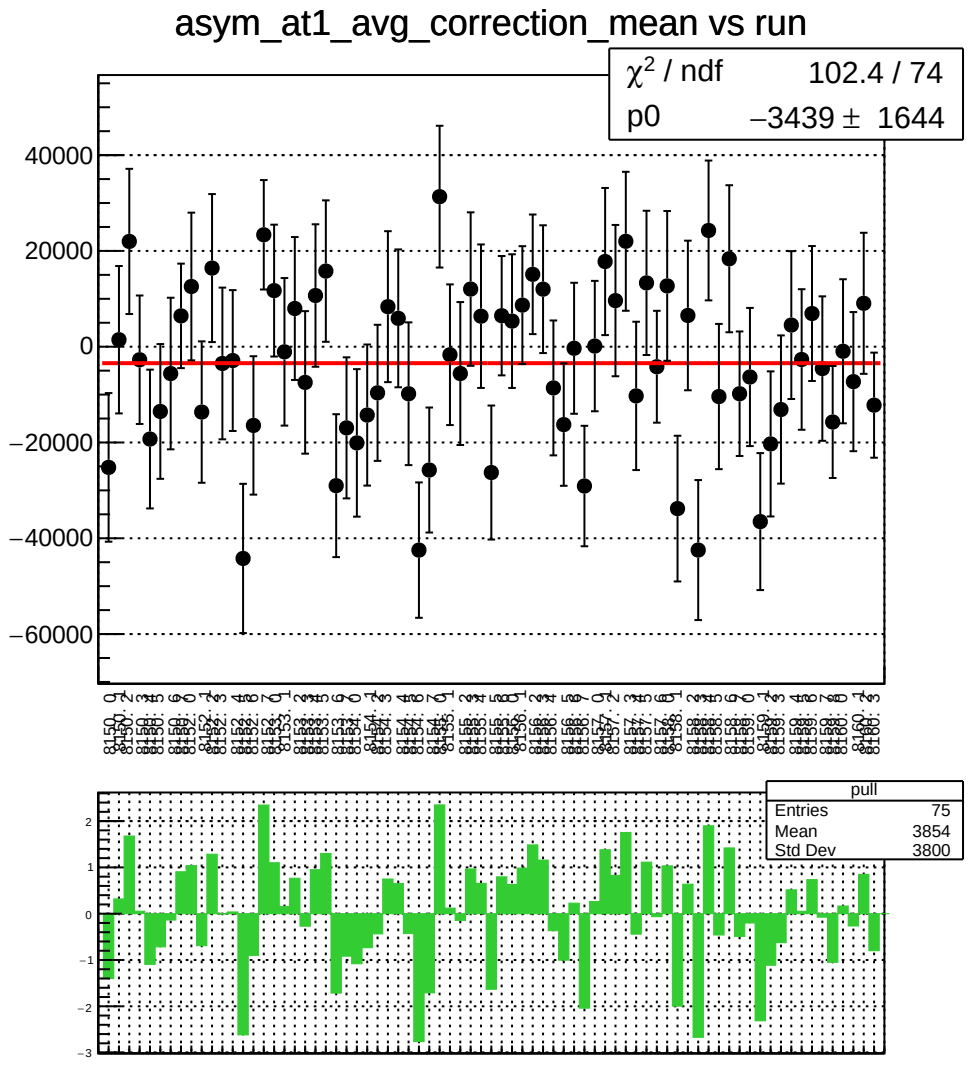

pull1D
Entries 75
Mean −0.000301
Std Dev 1.17
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

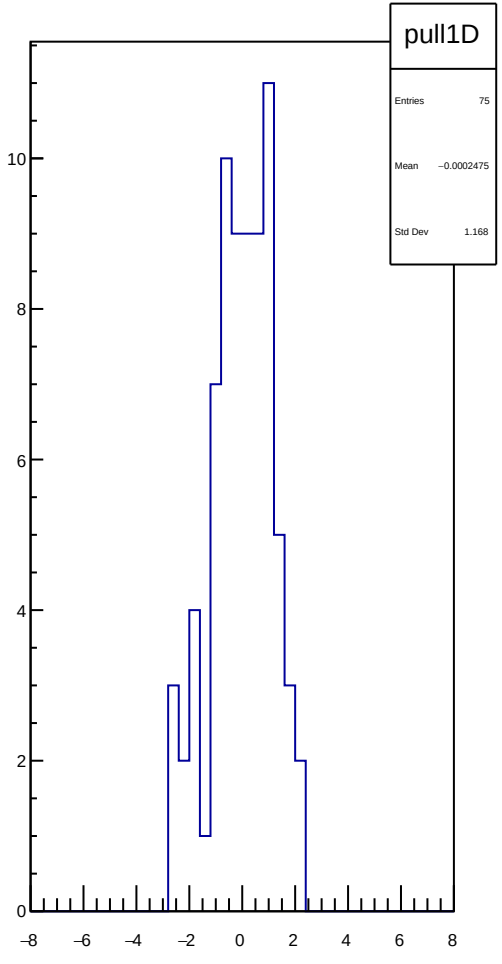

asym_atr_dd_rms vs run
χ² / ndf 1513 / 74
p0 6059 ± 5.044
6800
6600
6400
6200
6000
5800
5600

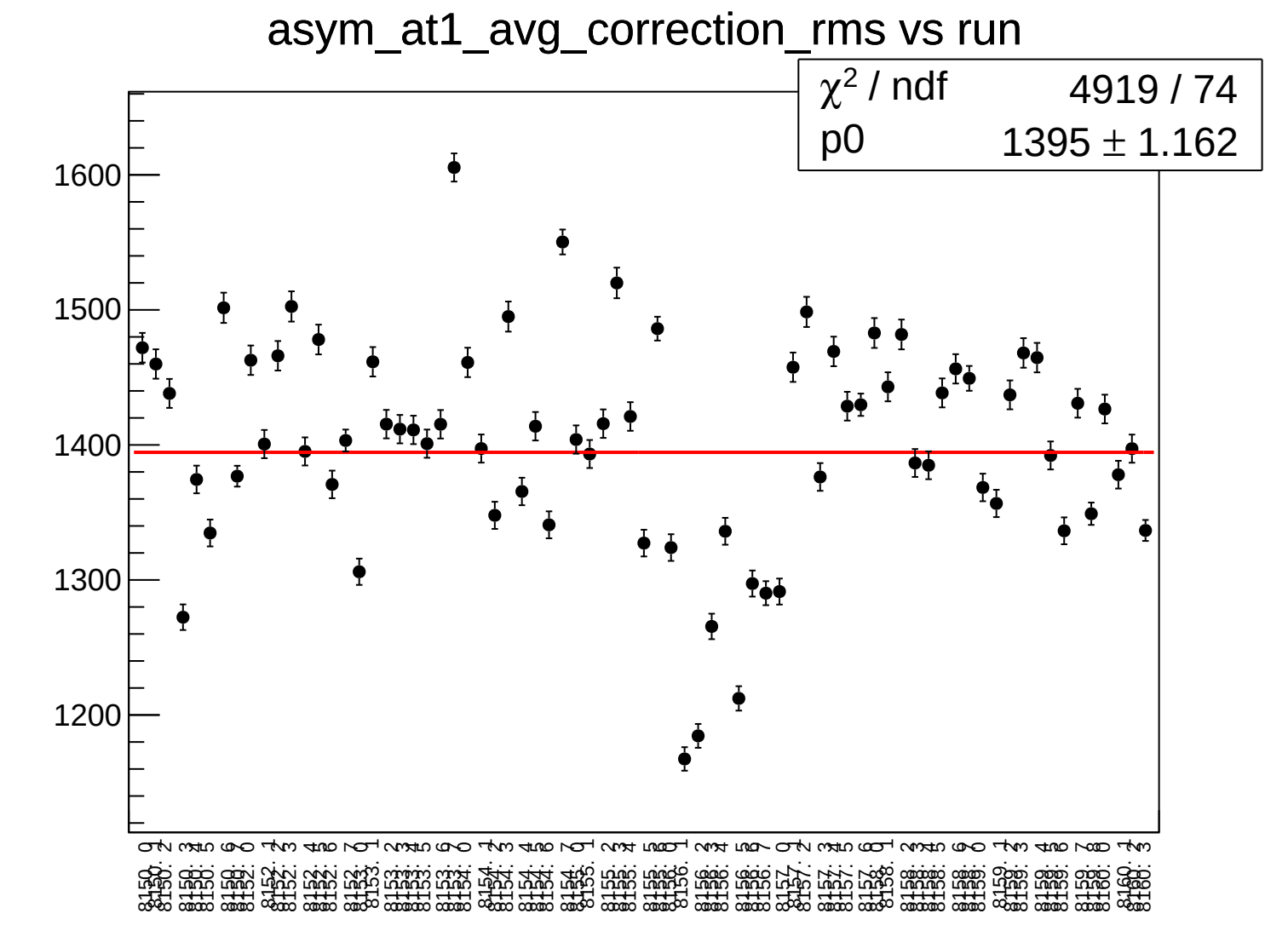

reg_asym_at1_avg_mean vs run
×10^3
χ² / ndf 54.22 / 74
p0 −2565 ± 2180
pull
Entries 75
Mean −20.77
Std Dev 45.68

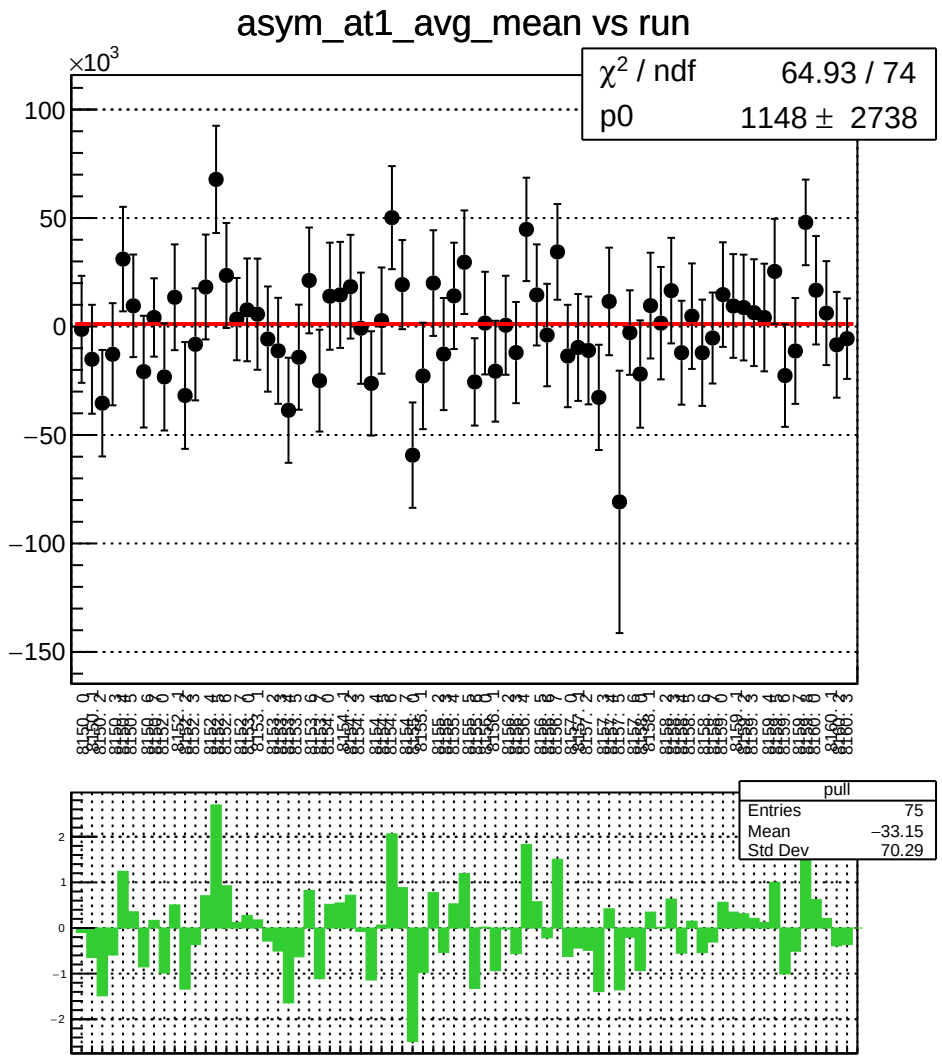

pull1D
Entries 75
Mean −0.01594
Std Dev 0.8501

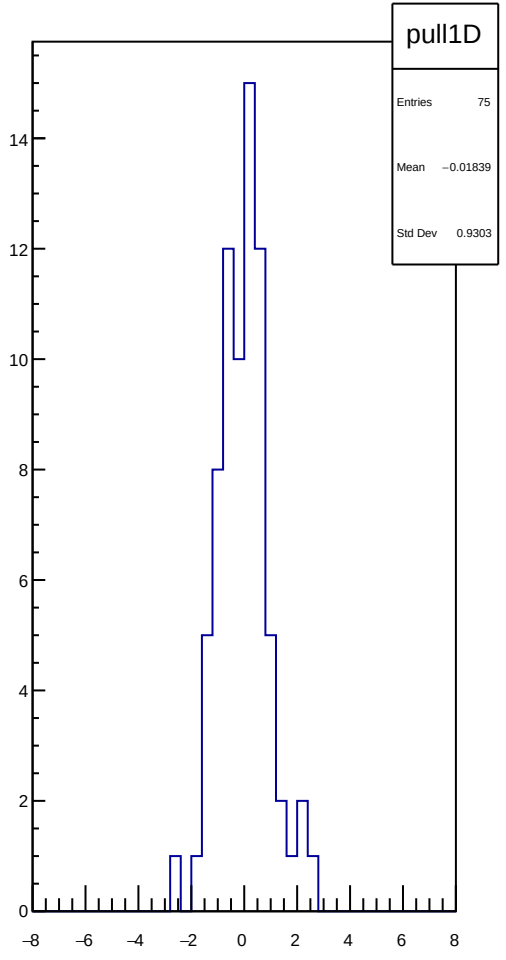

reg_asym_at1_avg_rms vs run
χ^2 / ndf 8667 / 74
p0 1847 ± 1.542
5500
5000
4500
4000
3500
3000
2500
2000
1500

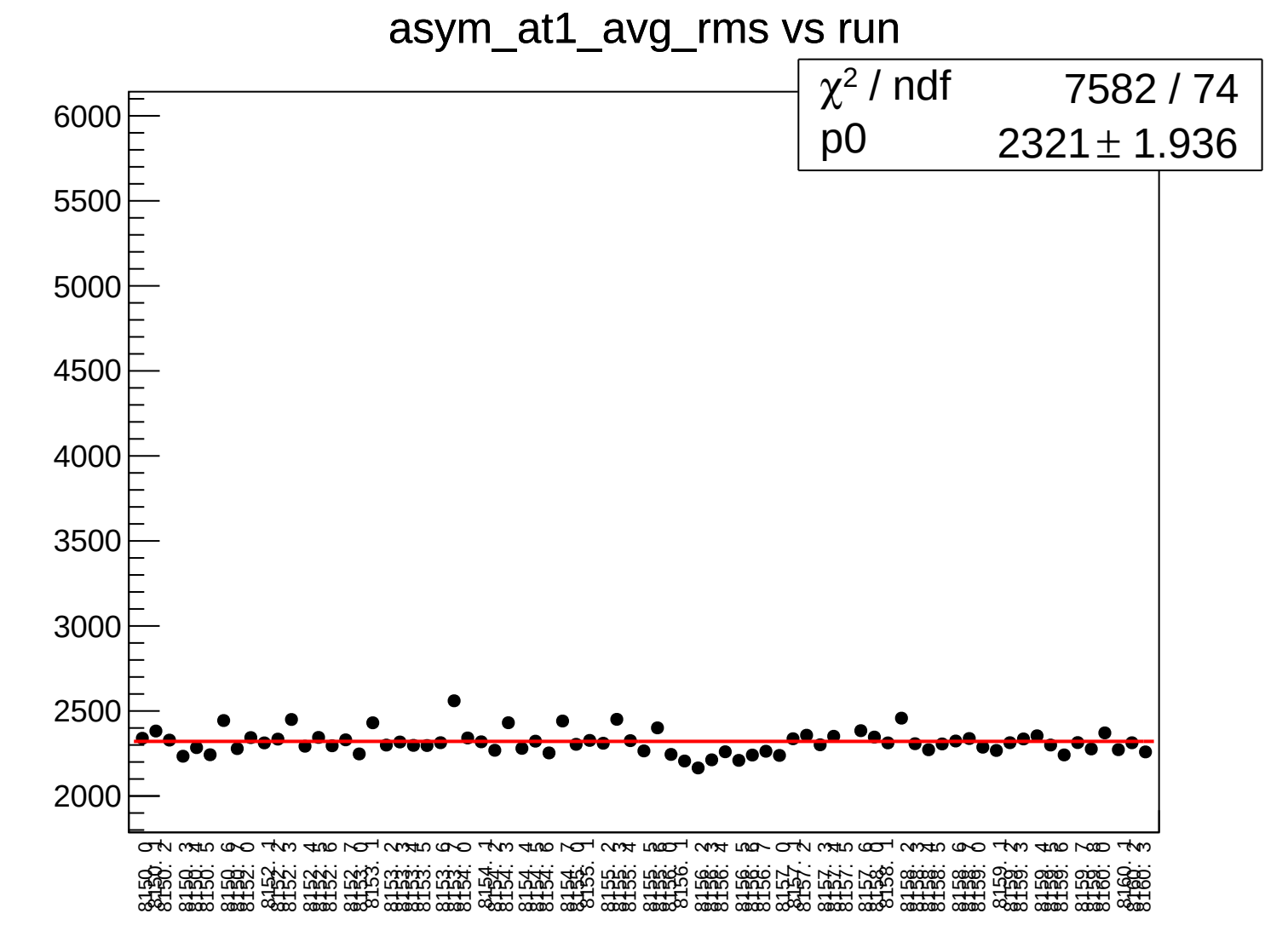

asym_at1_avg_correction_mean vs run
χ² / ndf 102.4 / 74
p0 −3439 ± 1644
40000
20000
0
−20000
−40000
−60000
pull
Entries 75
Mean 3854
Std Dev 3800
2
1
0
−1
−2
−3

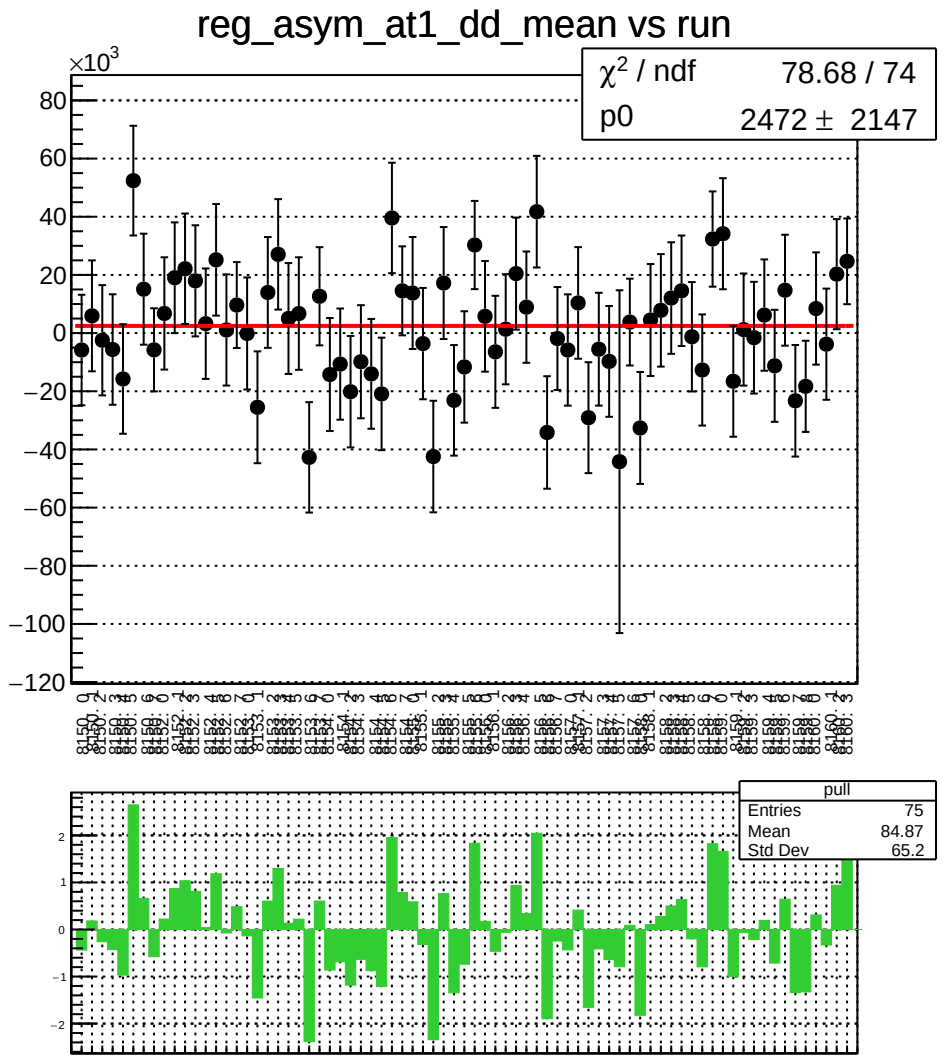

pull1D
Entries 75
Mean −0.0002475
Std Dev 1.168
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

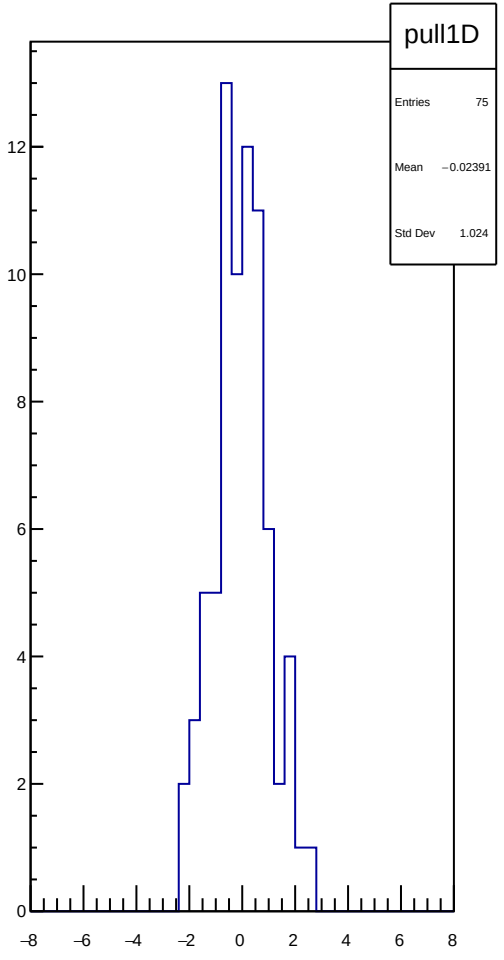

asym_at1_avg_correction_rms vs run
χ² / ndf 4919 / 74
p0 1395 ± 1.162
1600
1500
1400
1300
1200

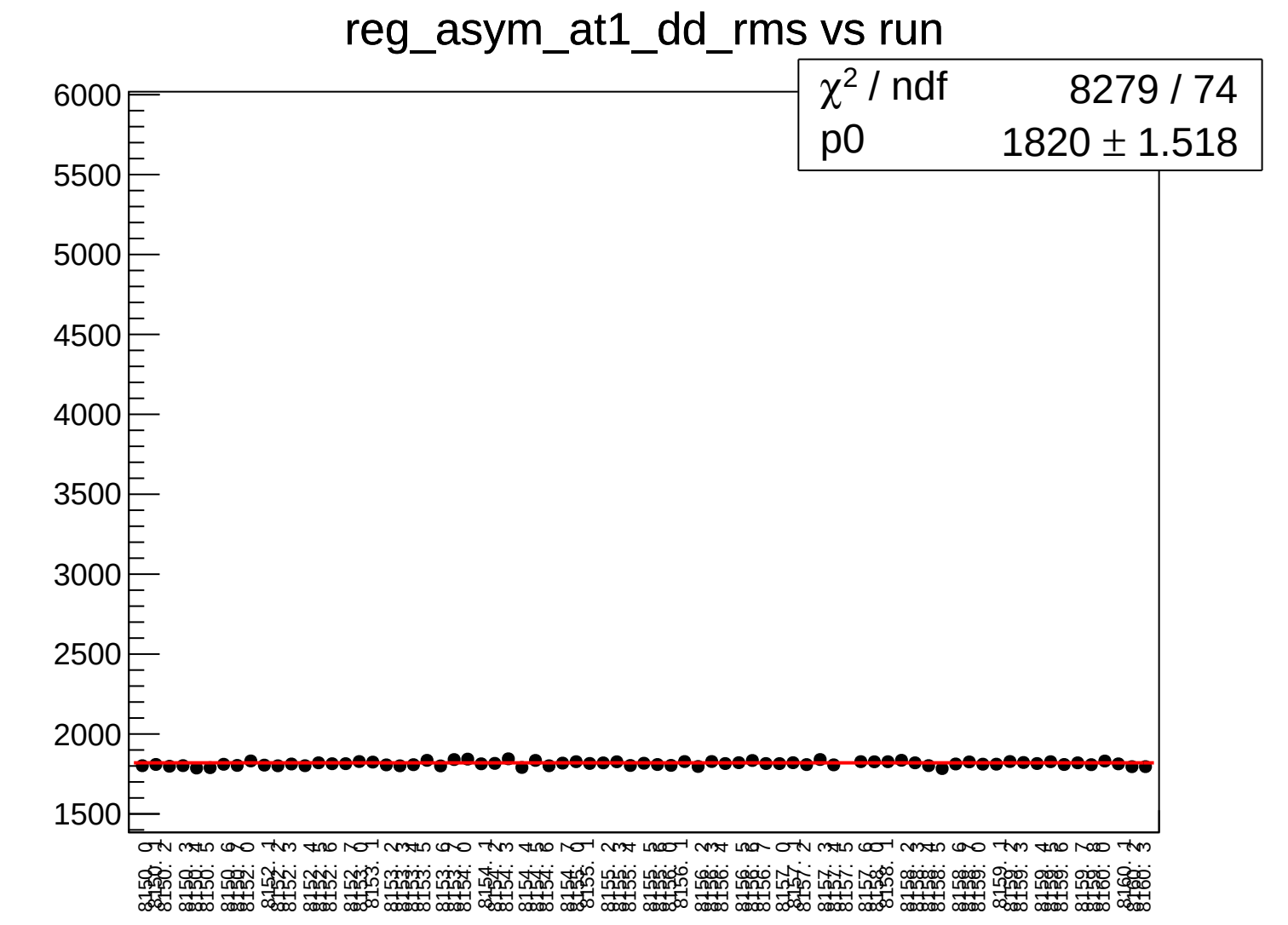

asym_at1_avg_mean vs run
×10^3
χ² / ndf 64.93 / 74
p0 1148 ± 2738
100
50
0
−50
−100
−150
pull
Entries 75
Mean −33.15
Std Dev 70.29
2
1
0
−1
−2

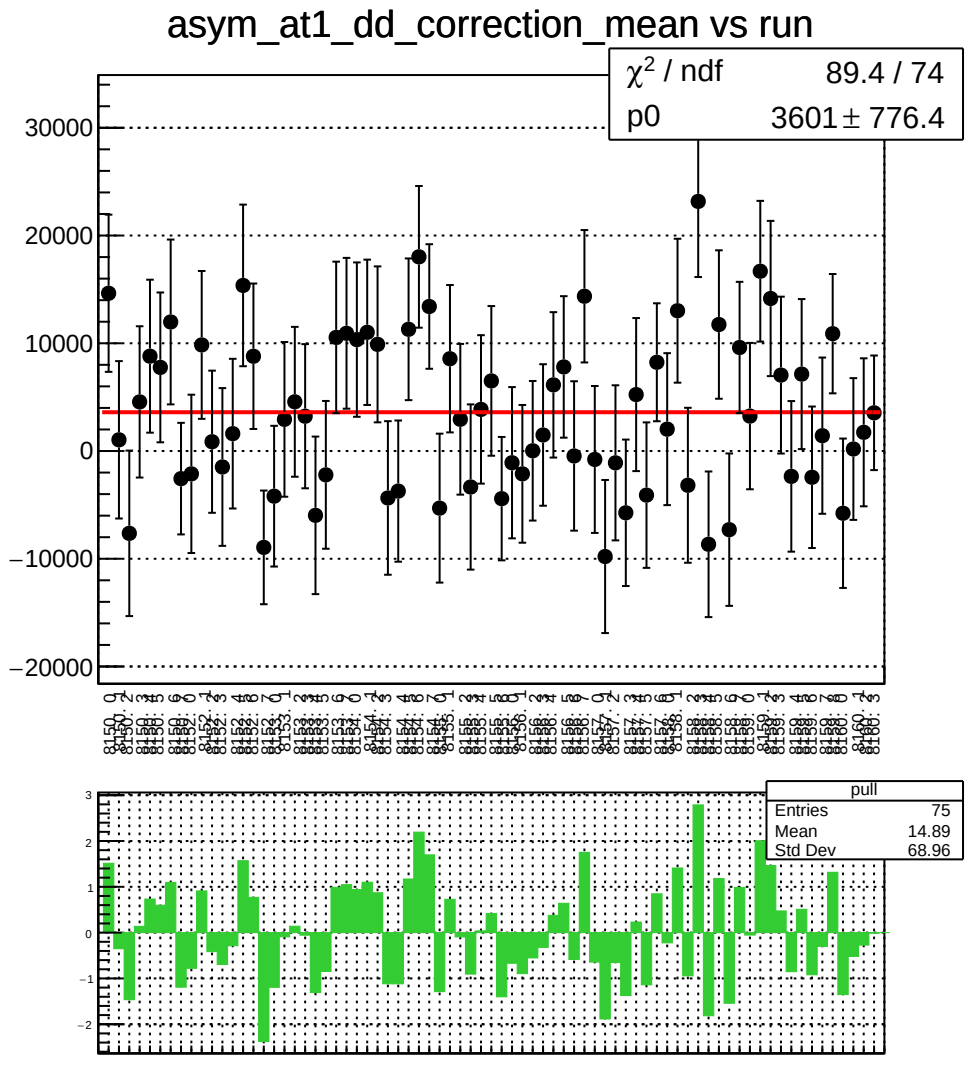

pull1D
Entries 75
Mean −0.01839
Std Dev 0.9303
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

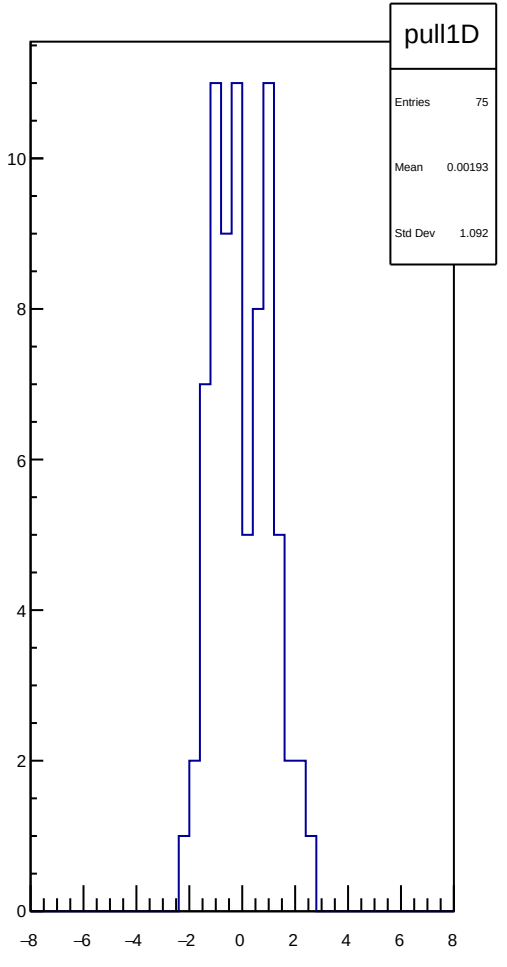

asym_at1_avg_rms vs run
χ^2 / ndf 7582 / 74
p0 2321 ± 1.936
6000
5500
5000
4500
4000
3500
3000
2500
2000

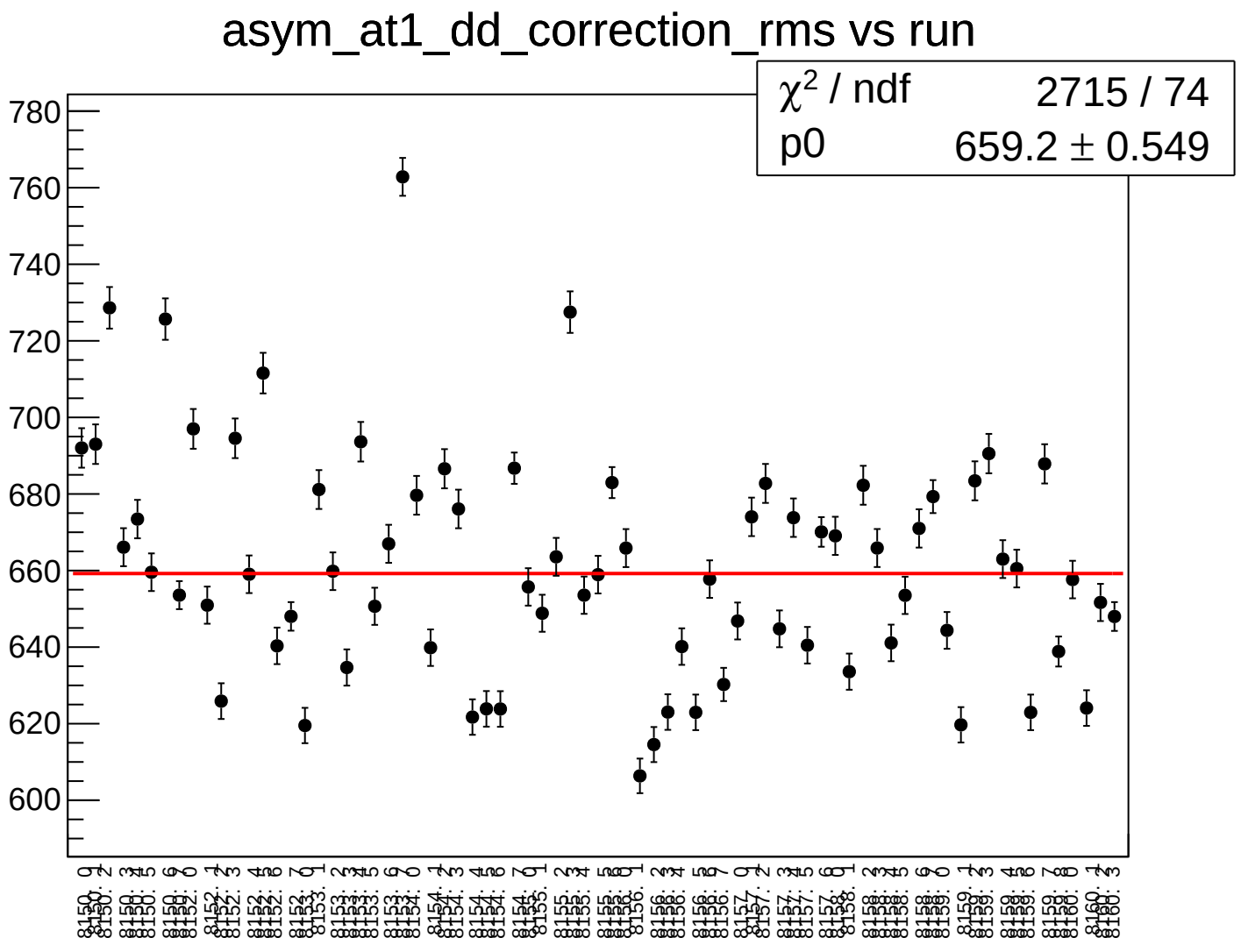

reg_asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 78.68 / 74
p0 2472 ± 2147
pull
Entries 75
Mean 84.87
Std Dev 65.2

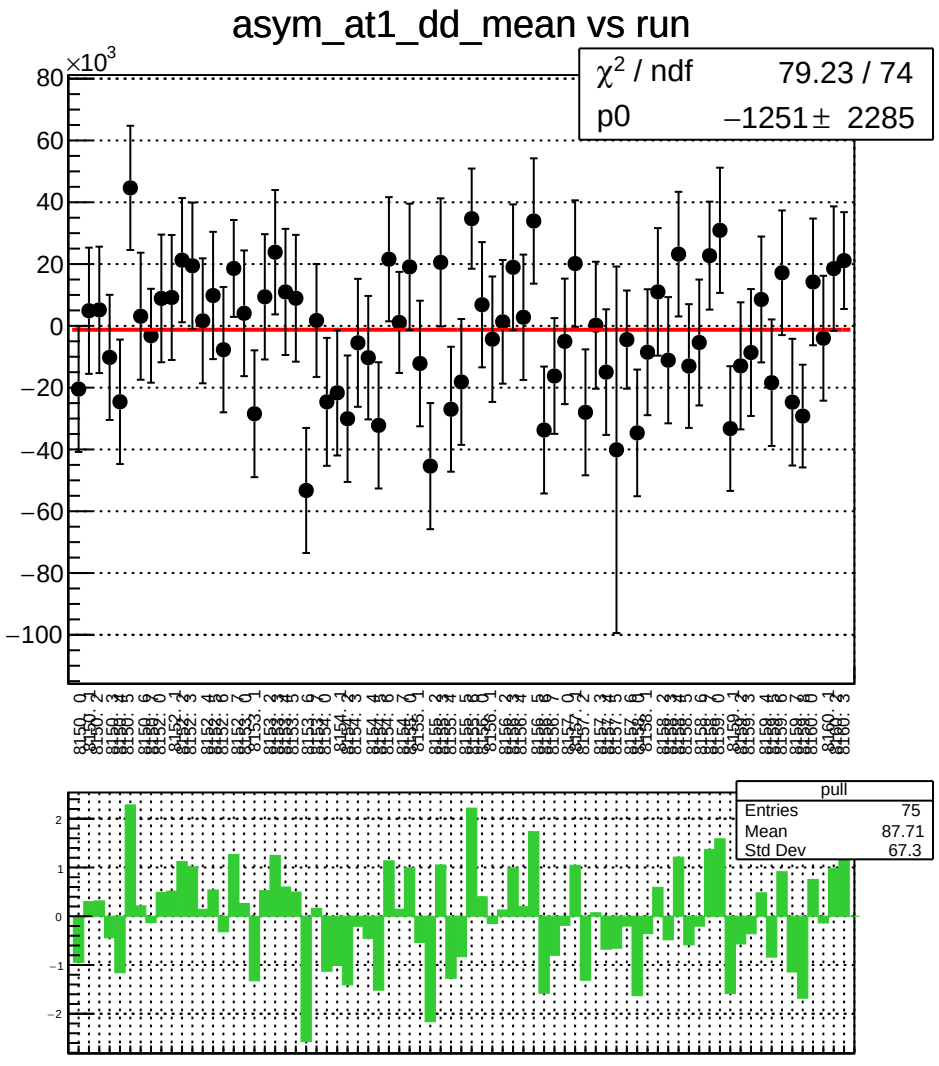

pull1D
Entries 75
Mean −0.02391
Std Dev 1.024

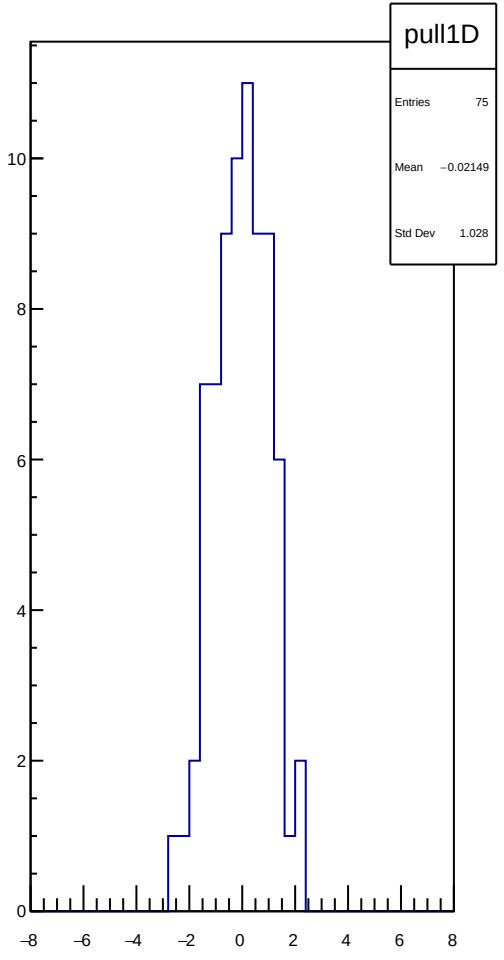

reg_asym_at1_dd_rms vs run
χ^2 / ndf 8279 / 74
p0 1820 ± 1.518
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

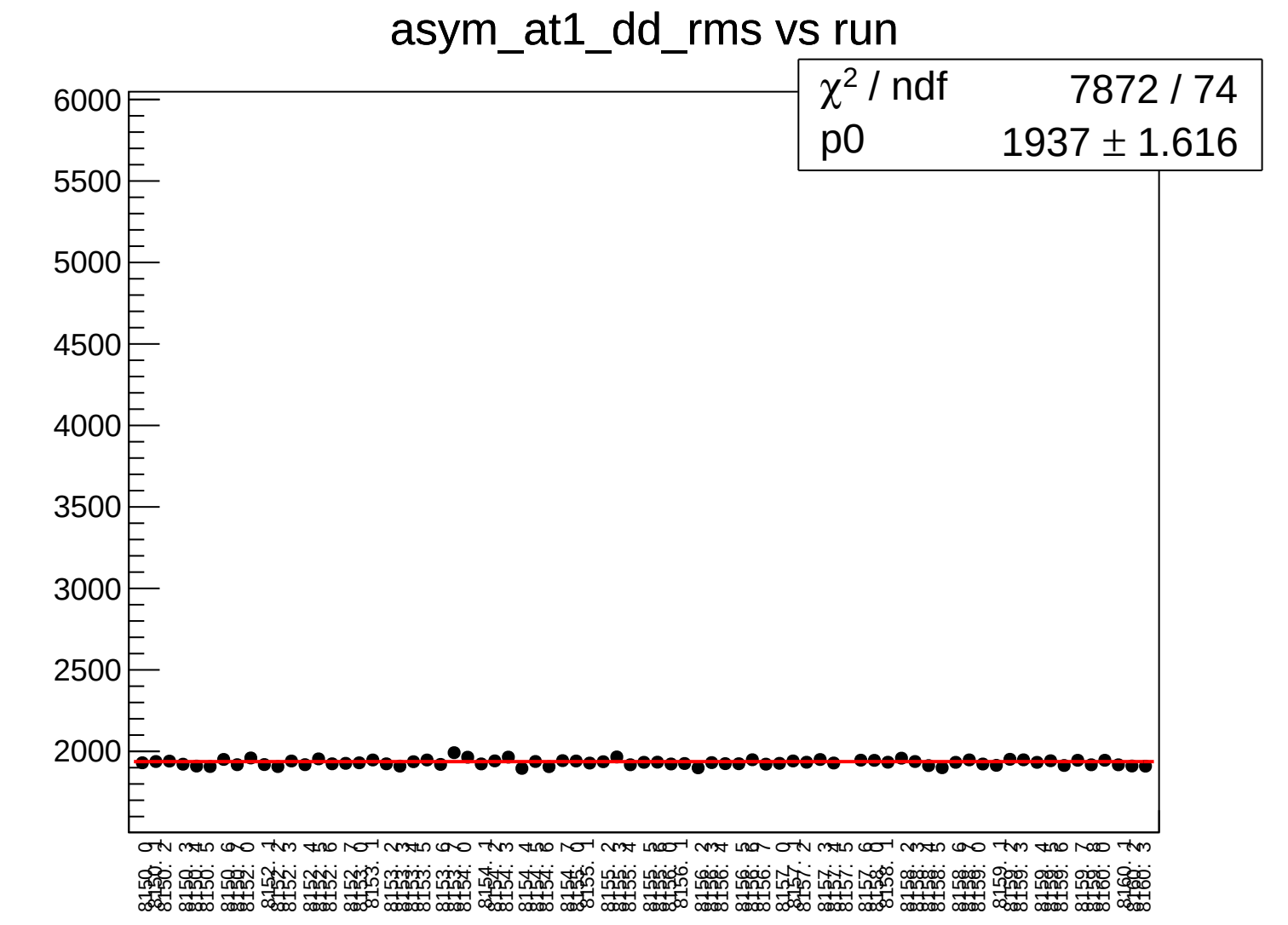

asym_at1_dd_correction_mean vs run
χ² / ndf 89.4 / 74
p0 3601 ± 776.4
30000
20000
10000
0
−10000
−20000
pull
Entries 75
Mean 14.89
Std Dev 68.96
3
2
1
0
−1
−2

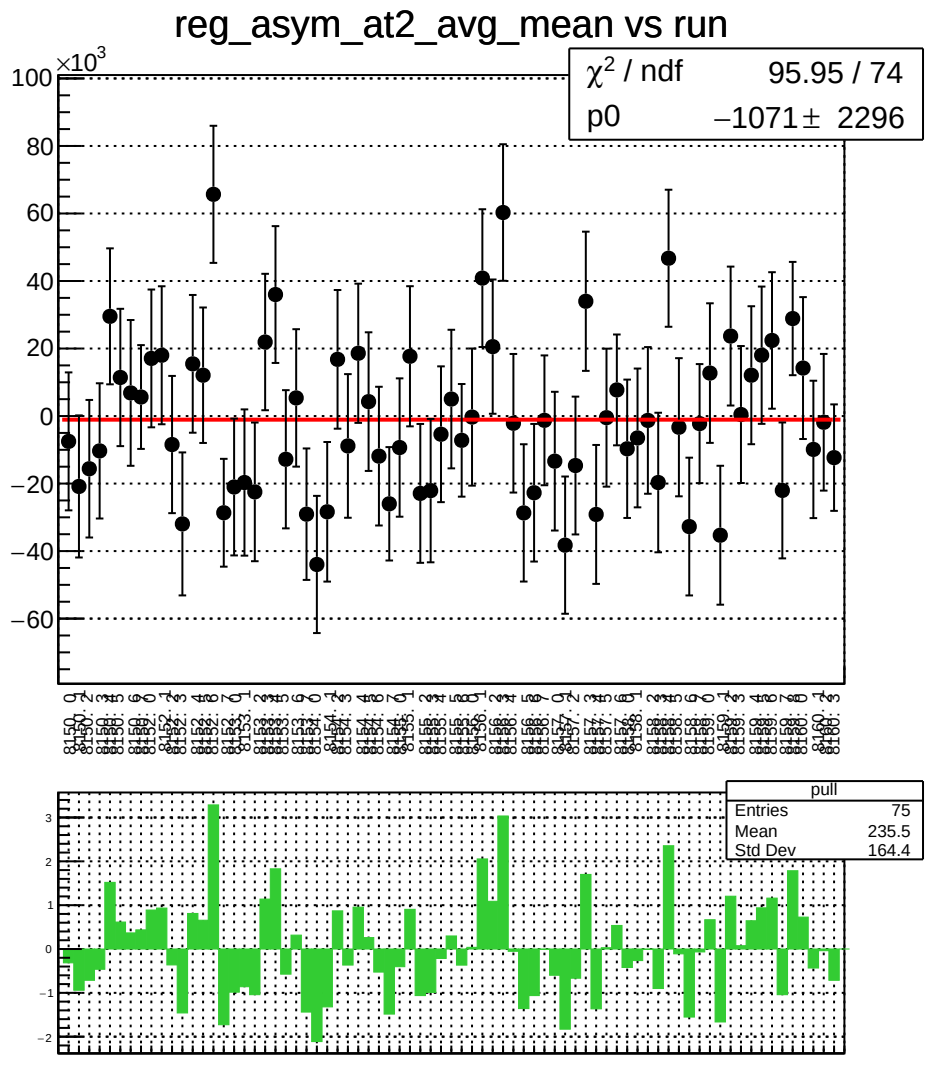

pull1D
Entries 75
Mean 0.00193
Std Dev 1.092
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

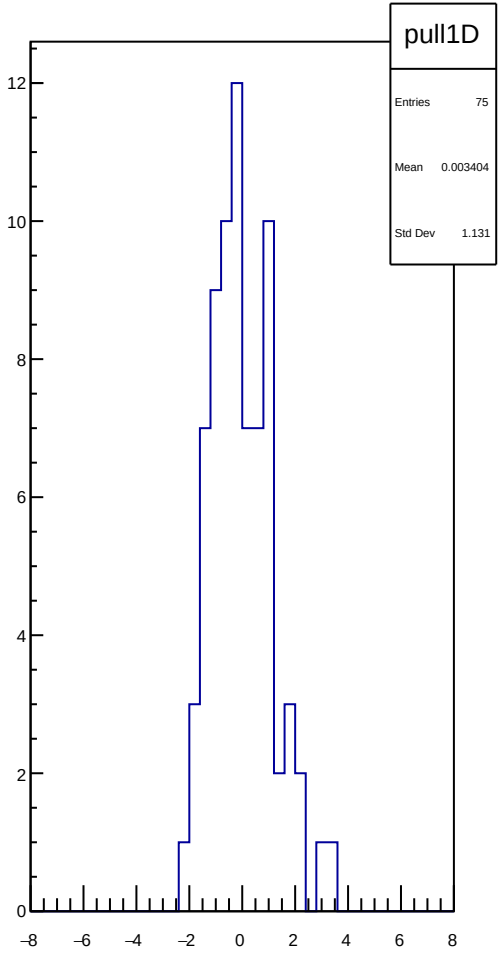

asym_at1_dd_correction_rms vs run
χ² / ndf 2715 / 74
p0 659.2 ± 0.549
780
760
740
720
700
680
660
640
620
600

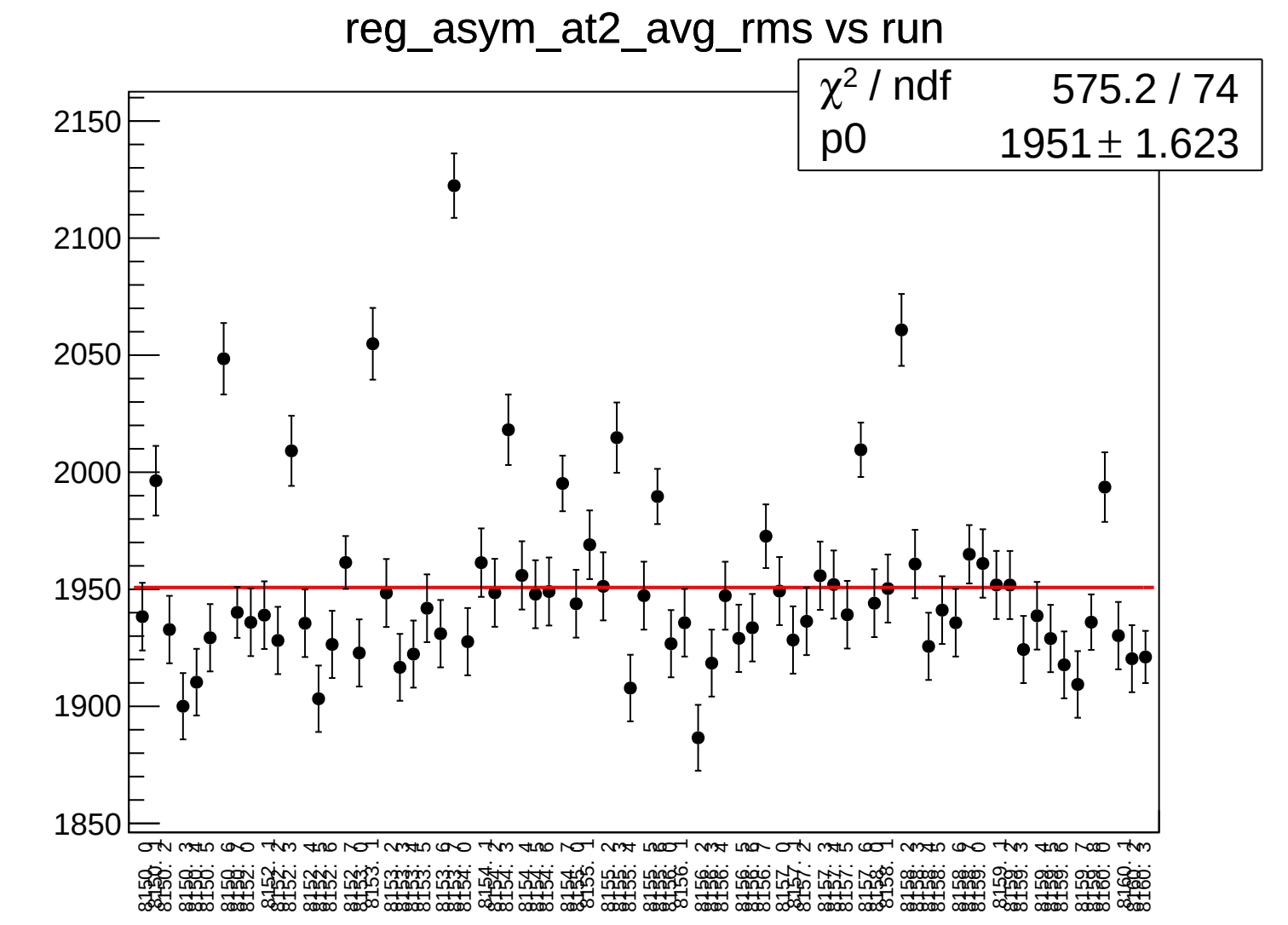

asym_at1_dd_mean vs run
×10^3
χ² / ndf 79.23 / 74
p0 −1251 ± 2285
pull
Entries 75
Mean 87.71
Std Dev 67.3

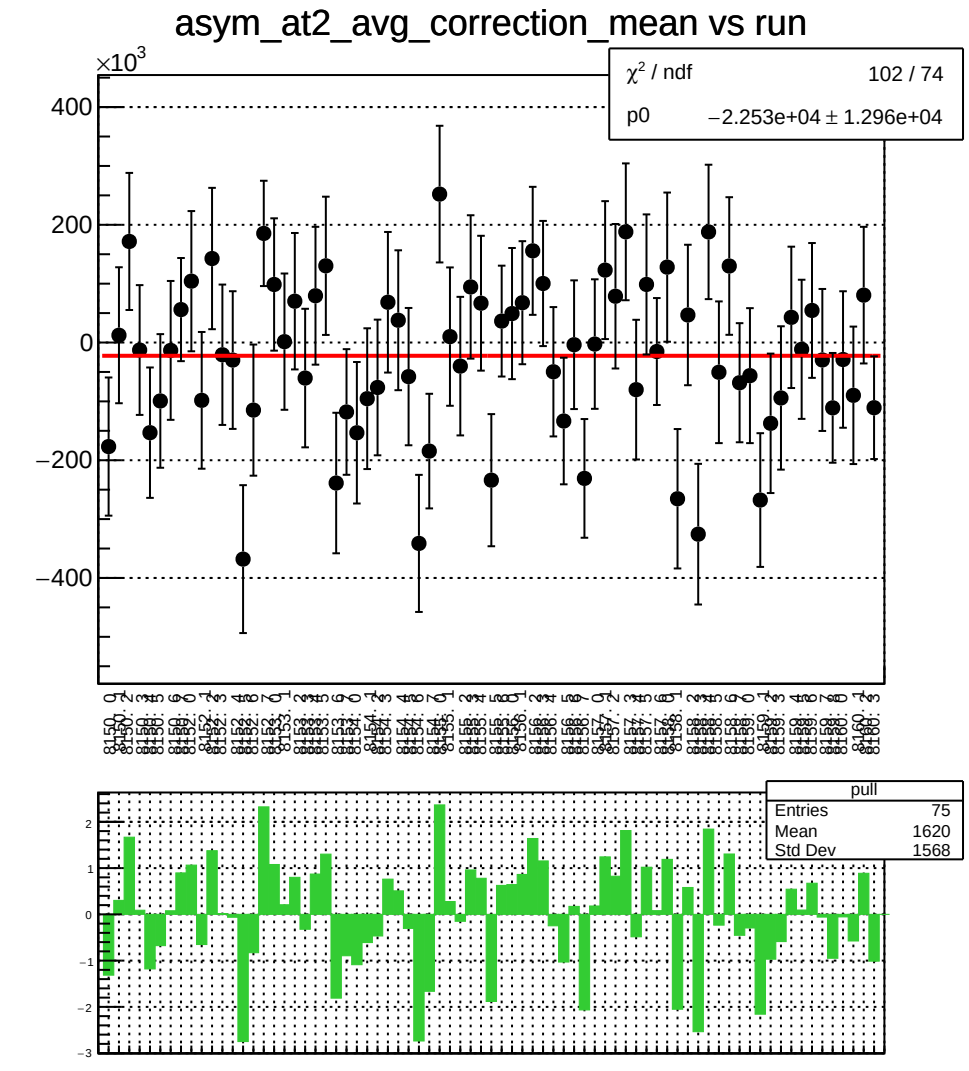

pull1D
Entries 75
Mean −0.02149
Std Dev 1.028

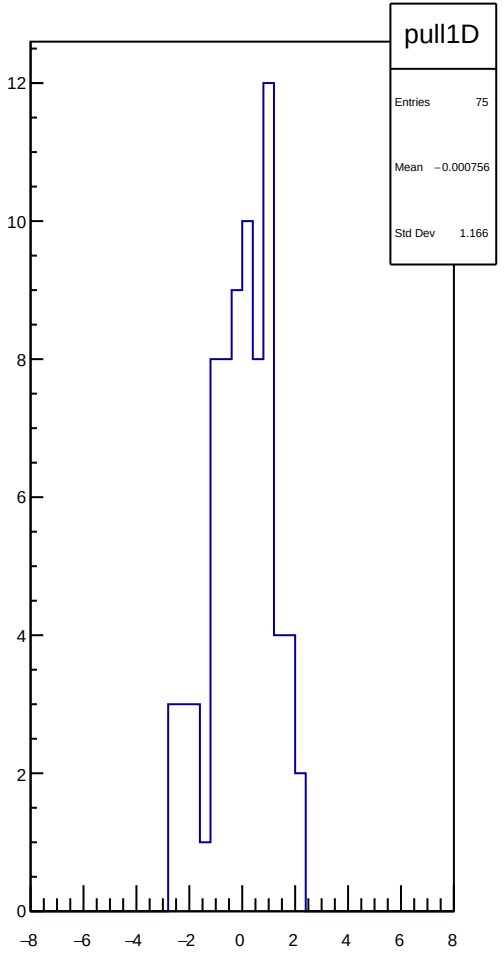

asym_at1_dd_rms vs run
χ^2 / ndf 7872 / 74
p0 1937 ± 1.616
6000
5500
5000
4500
4000
3500
3000
2500
2000

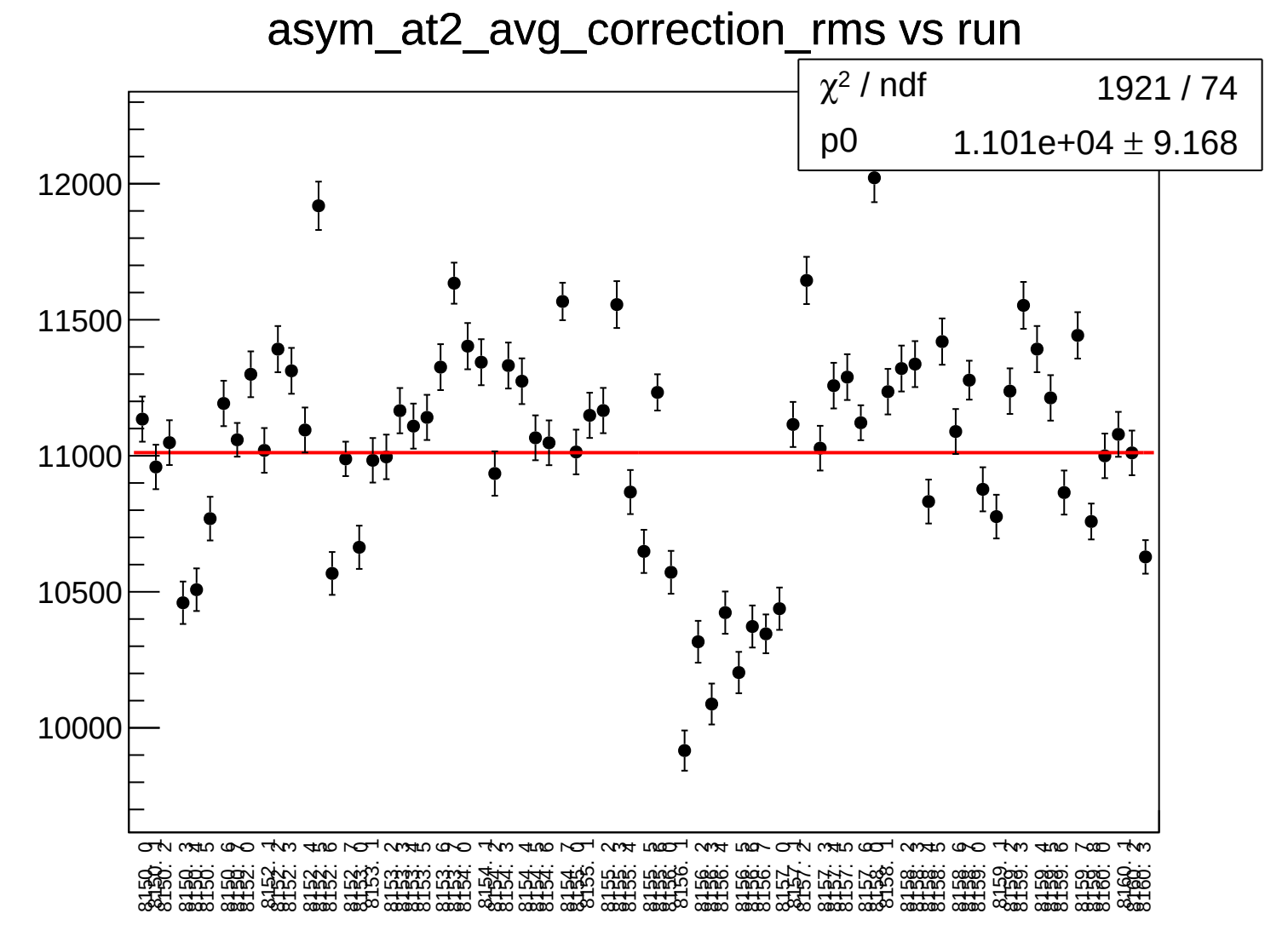

reg_asym_at2_avg_mean vs run
χ^2 / ndf 95.95 / 74
p0 −1071 ± 2296
×10^3
pull
Entries 75
Mean 235.5
Std Dev 164.4

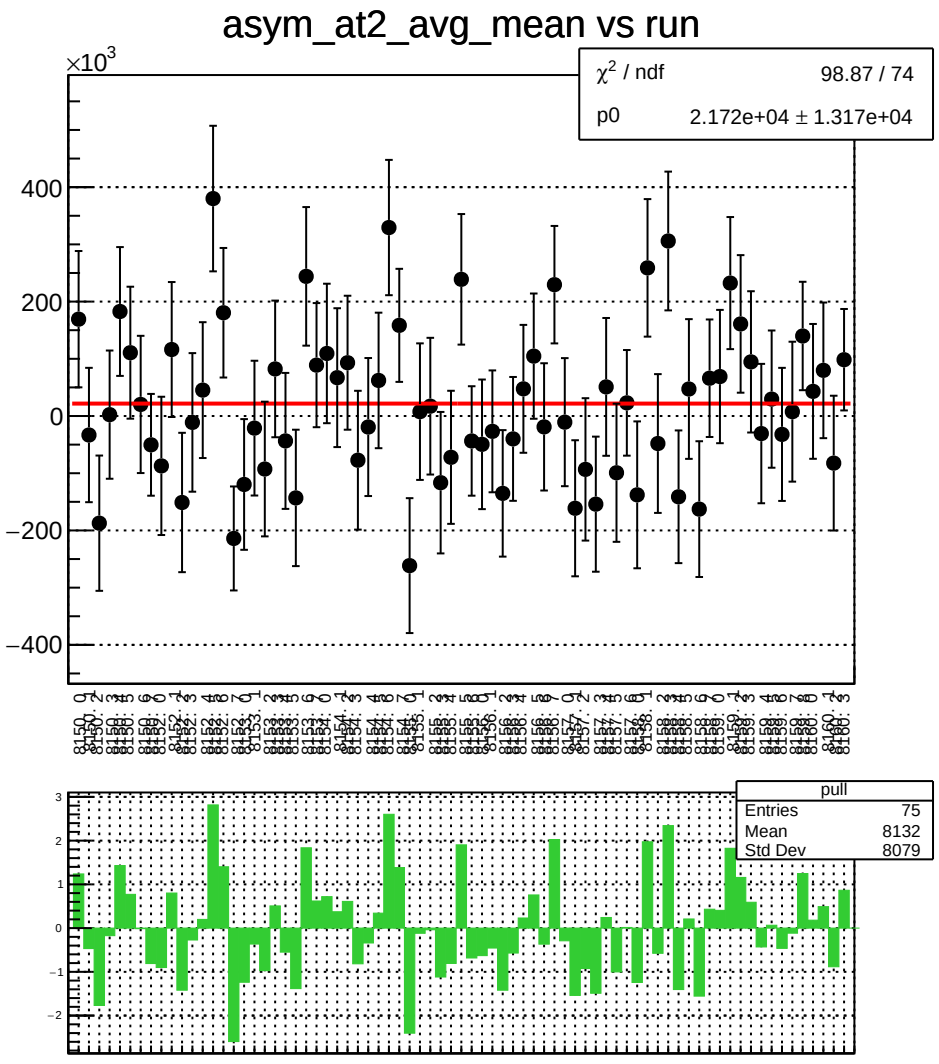

pull1D
Entries 75
Mean 0.003404
Std Dev 1.131

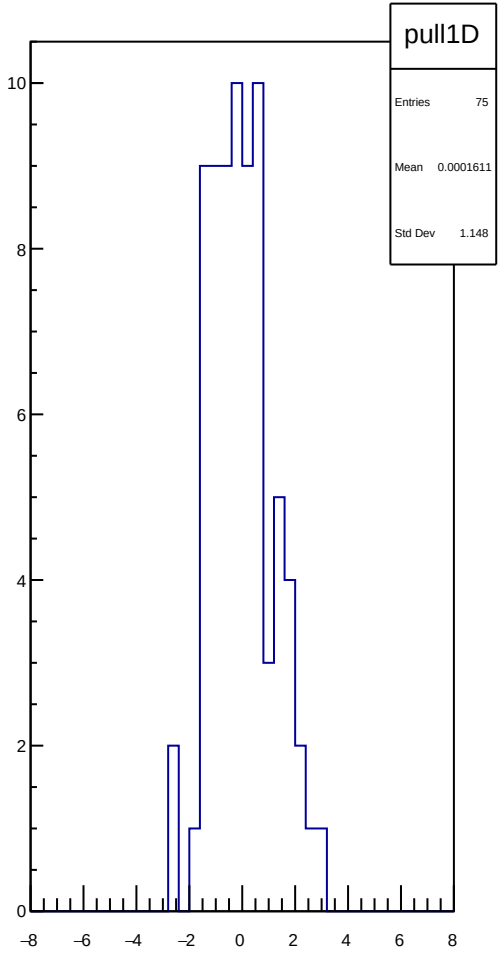

reg_asym_at2_avg_rms vs run
χ² / ndf 575.2 / 74
p0 1951 ± 1.623
2150
2100
2050
2000
1950
1900
1850

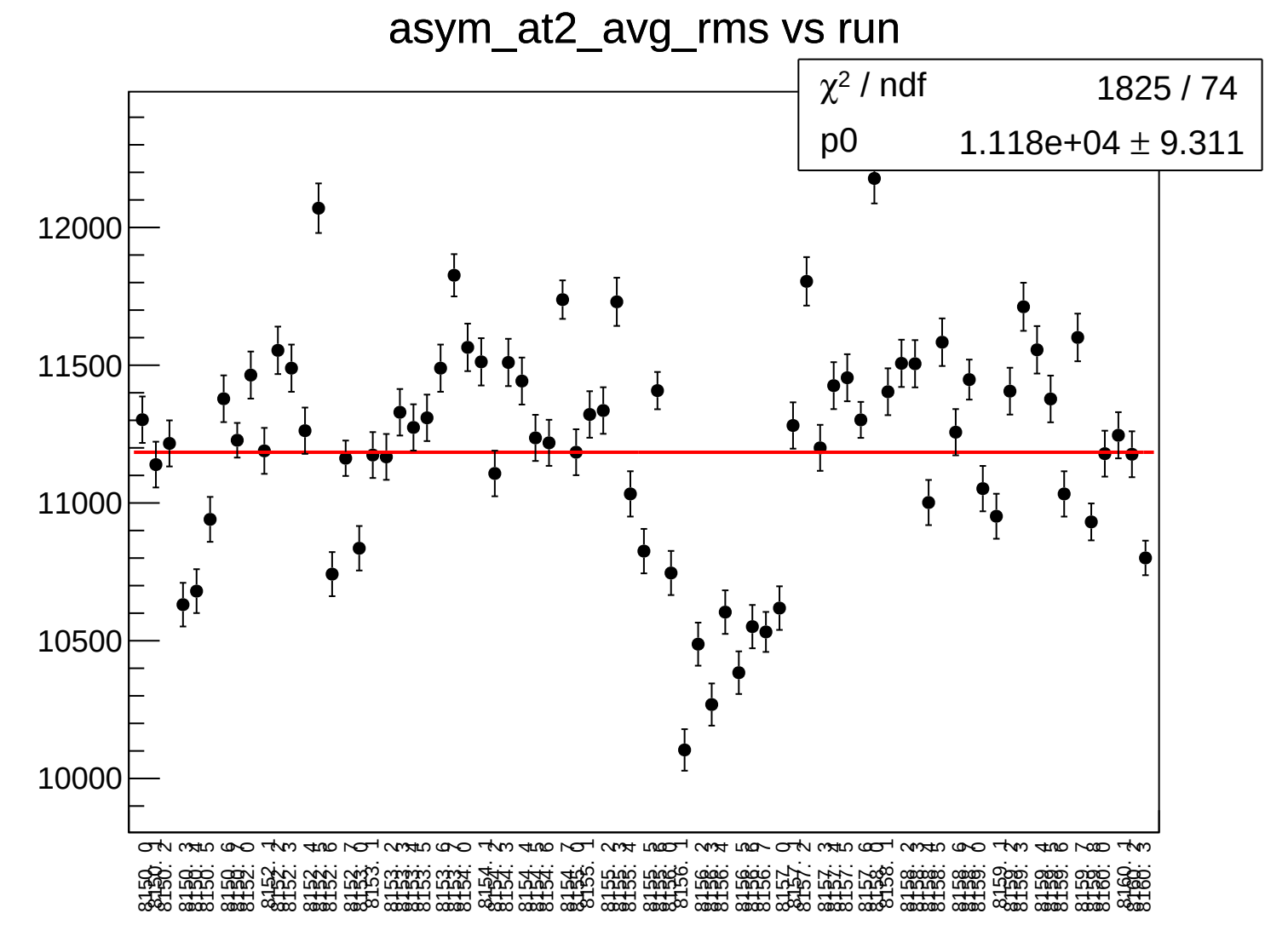

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 102 / 74
p0 −2.253e+04 ± 1.296e+04
400
200
0
−200
−400
pull
Entries 75
Mean 1620
Std Dev 1568
2
1
0
−1
−2
−3

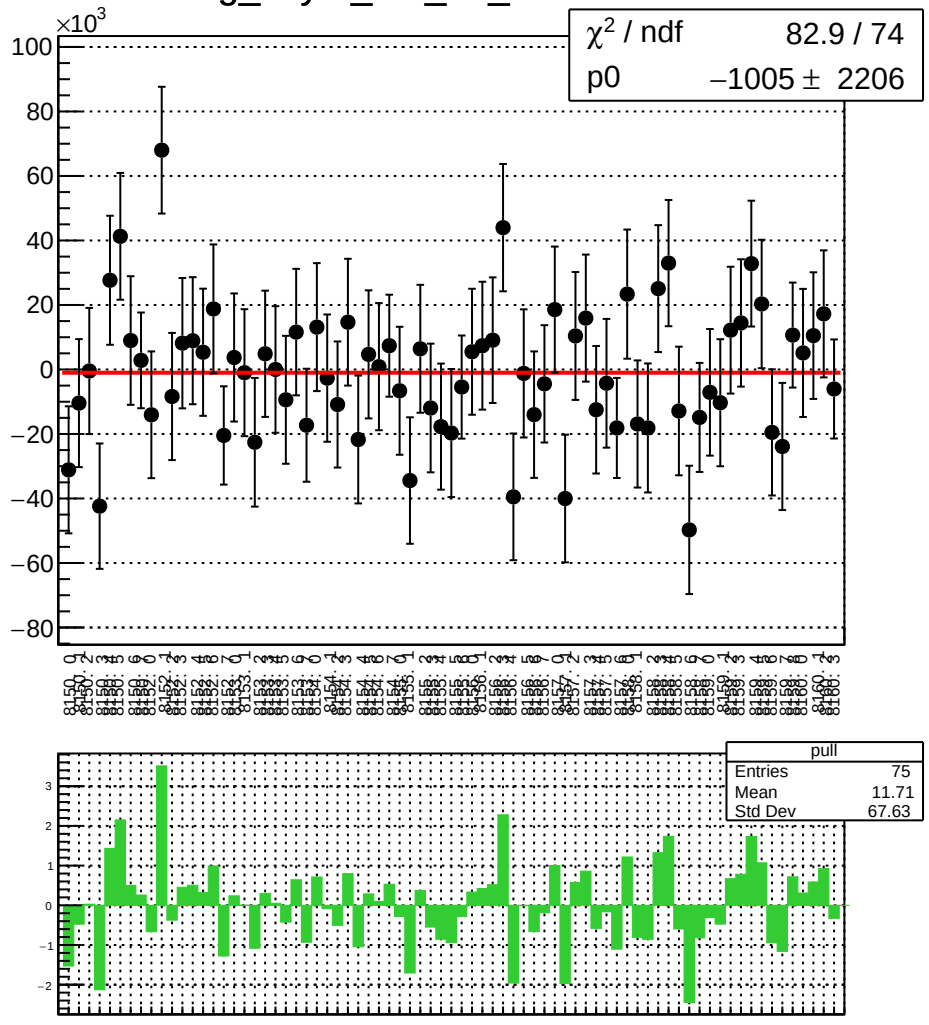

pull1D
Entries 75
Mean −0.000756
Std Dev 1.166
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

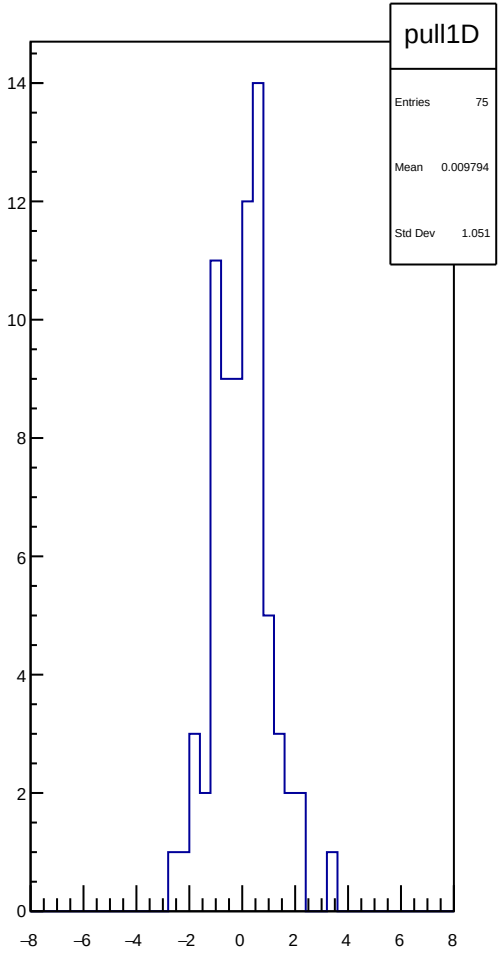

asym_at2_avg_correction_rms vs run
χ² / ndf 1921 / 74
p0 1.101e+04 ± 9.168
12000
11500
11000
10500
10000

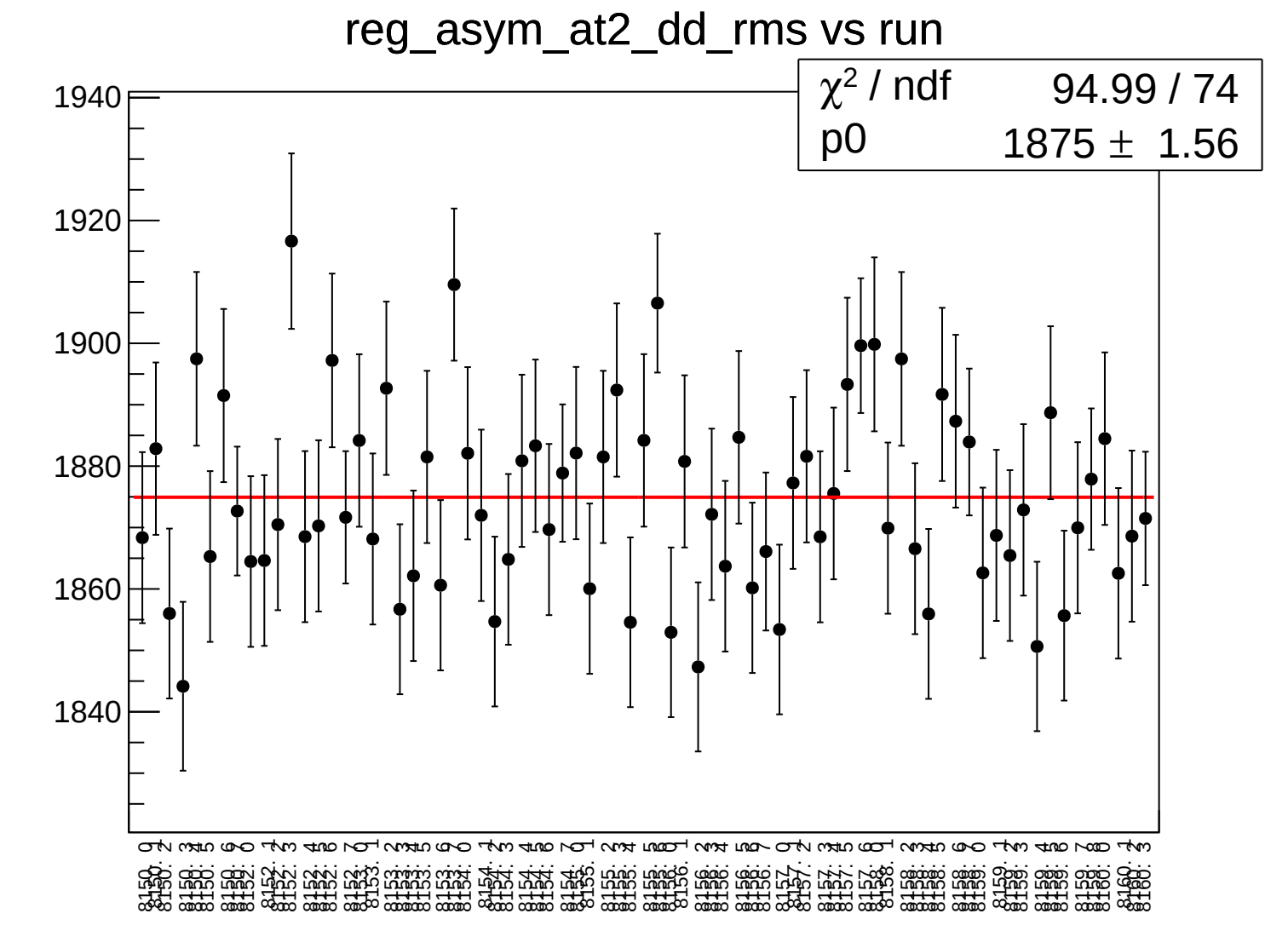

asym_at2_avg_mean vs run
×10^3
χ² / ndf 98.87 / 74
p0 2.172e+04 ± 1.317e+04
400
200
0
−200
−400
pull
Entries 75
Mean 8132
Std Dev 8079
3
2
1
0
−1
−2

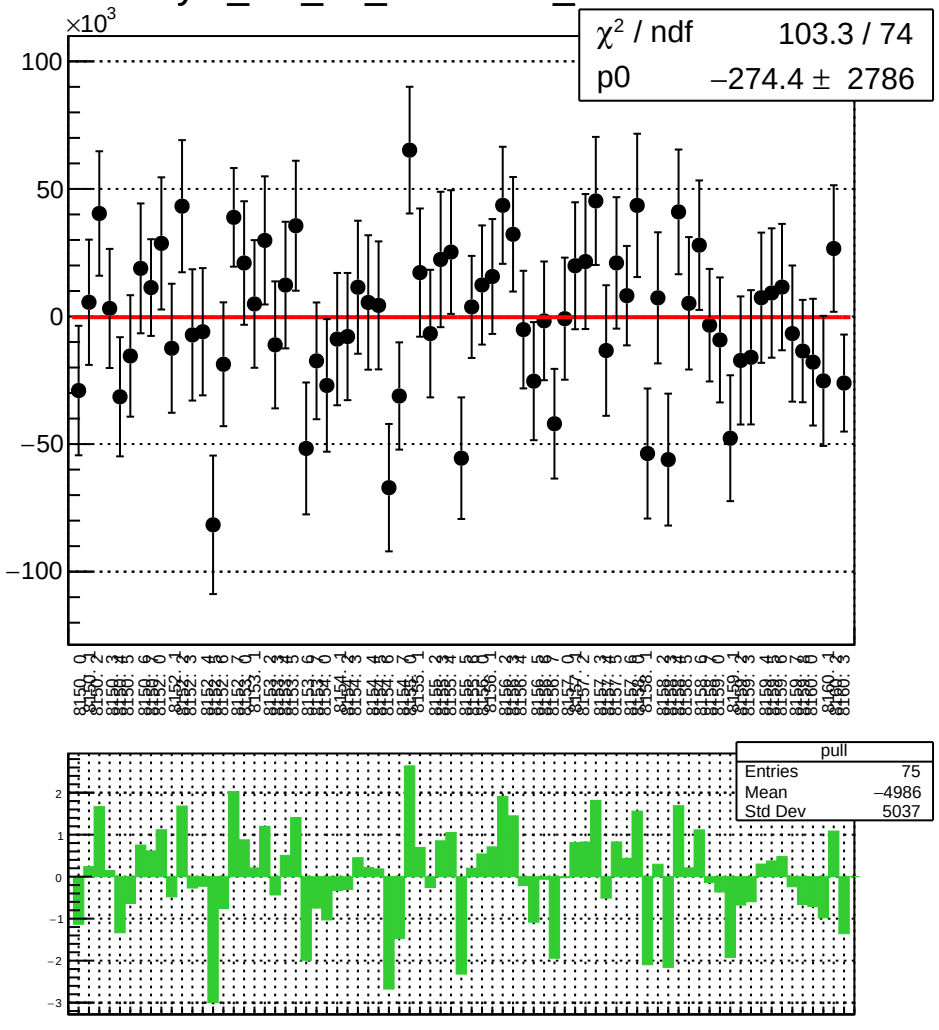

pull1D
Entries 75
Mean 0.0001611
Std Dev 1.148
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

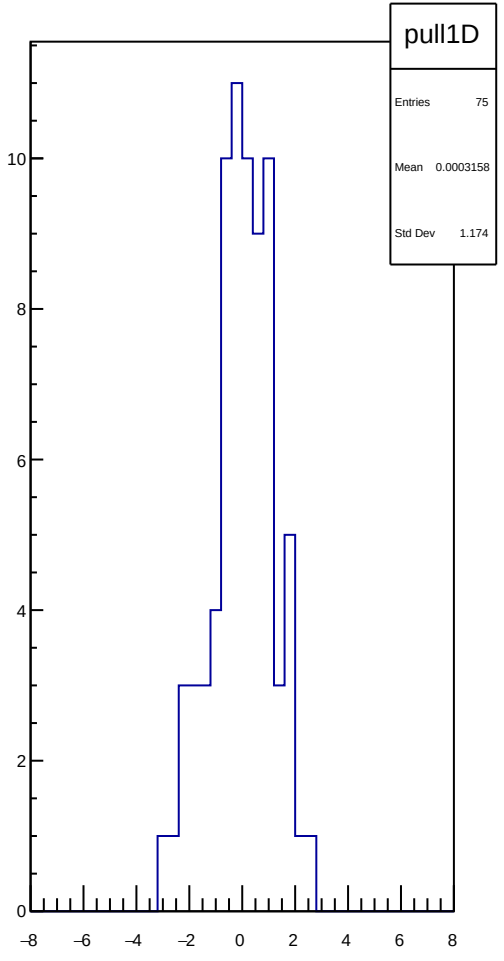

asym_at2_avg_rms vs run
χ² / ndf 1825 / 74
p0 1.118e+04 ± 9.311
12000
11500
11000
10500
10000

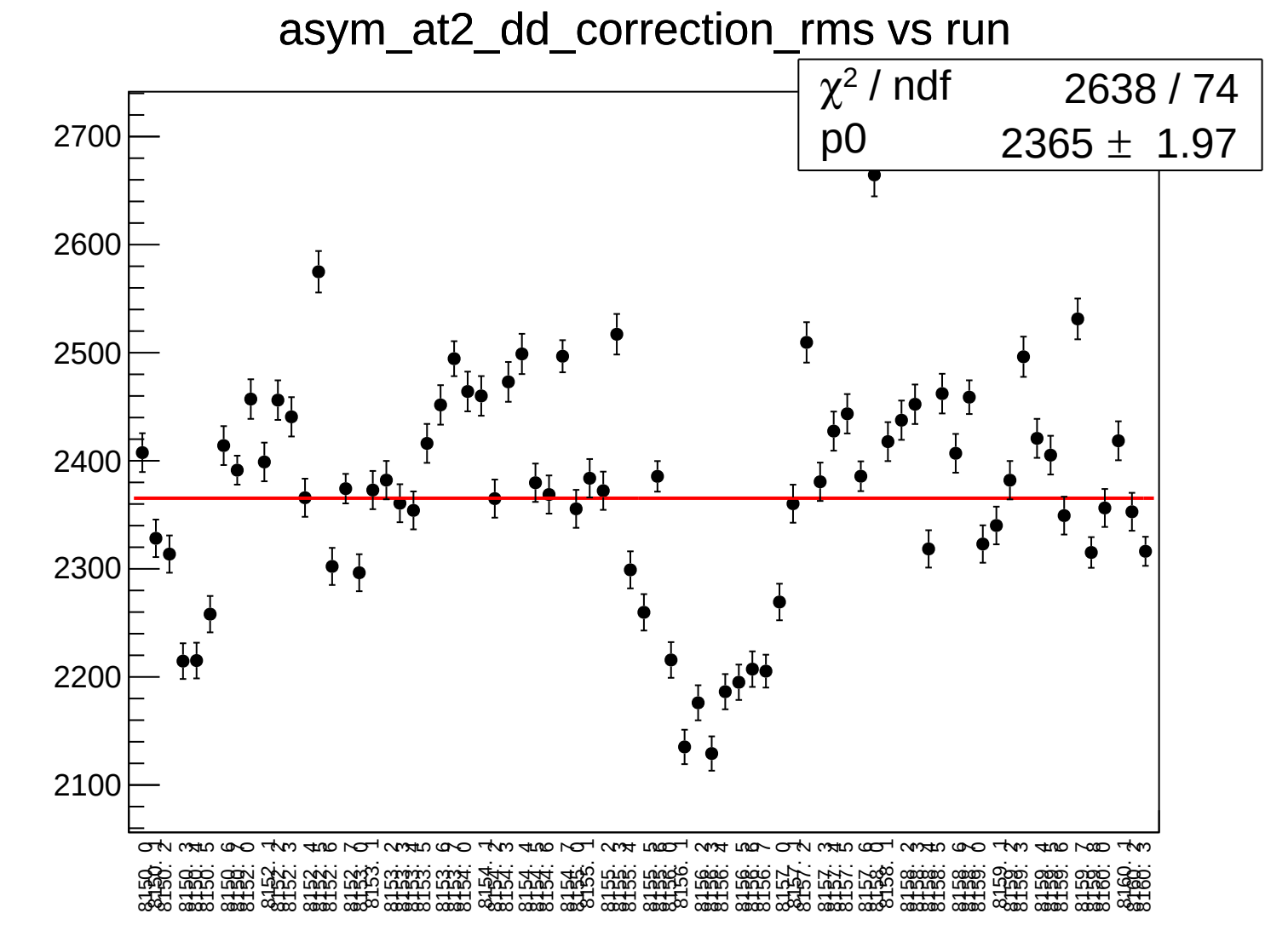

reg_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 82.9 / 74
p0 −1005 ± 2206
pull
Entries 75
Mean 11.71
Std Dev 67.63

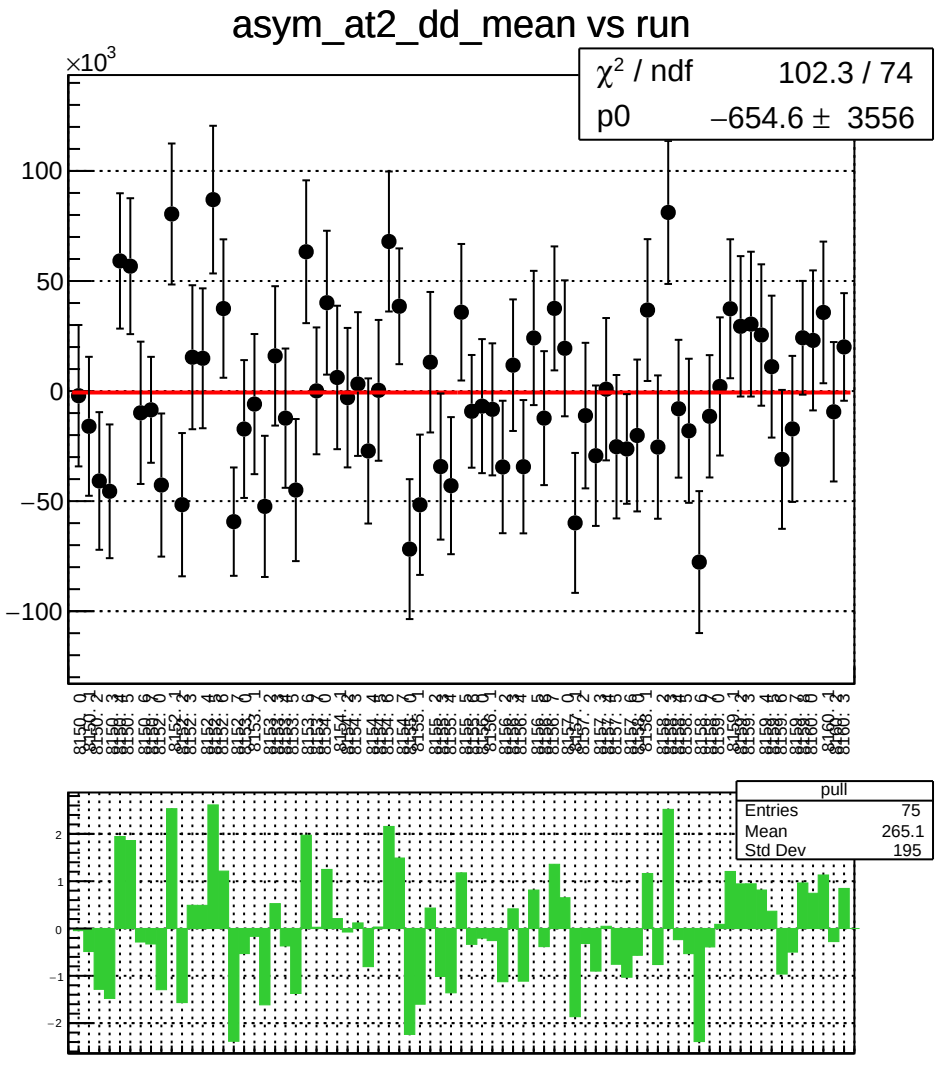

pull1D
Entries 75
Mean 0.009794
Std Dev 1.051

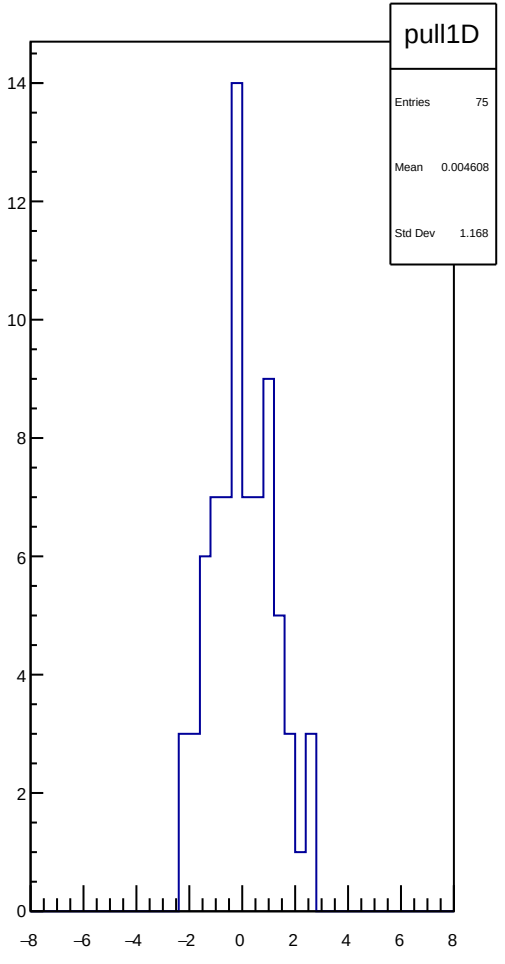

reg_asym_at2_dd_rms vs run
χ^2 / ndf 94.99 / 74
p0 1875 ± 1.56
1940
1920
1900
1880
1860
1840

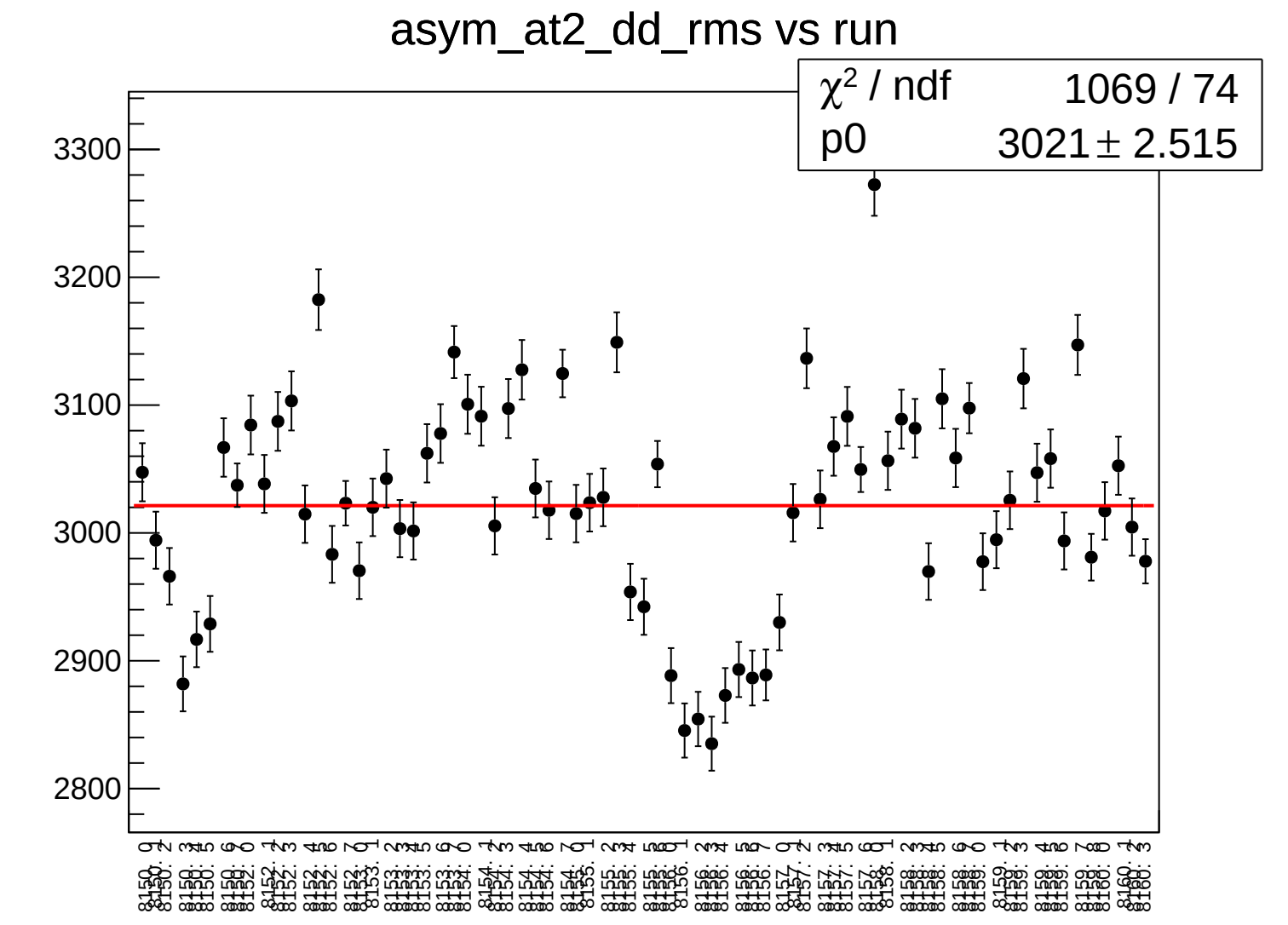

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 103.3 / 74
p0 −274.4 ± 2786
100
50
0
−50
−100
pull
Entries 75
Mean −4986
Std Dev 5037
2
1
0
−1
−2
−3

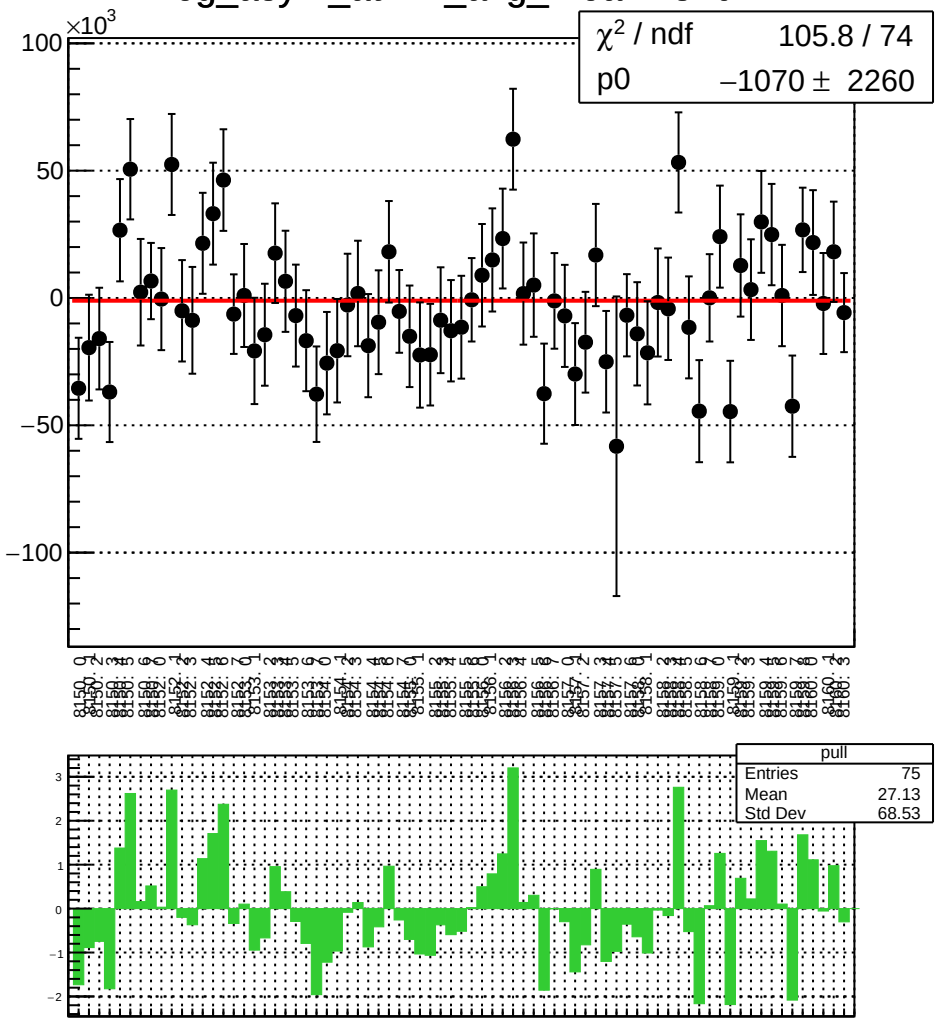

pull1D
Entries 75
Mean 0.0003158
Std Dev 1.174
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

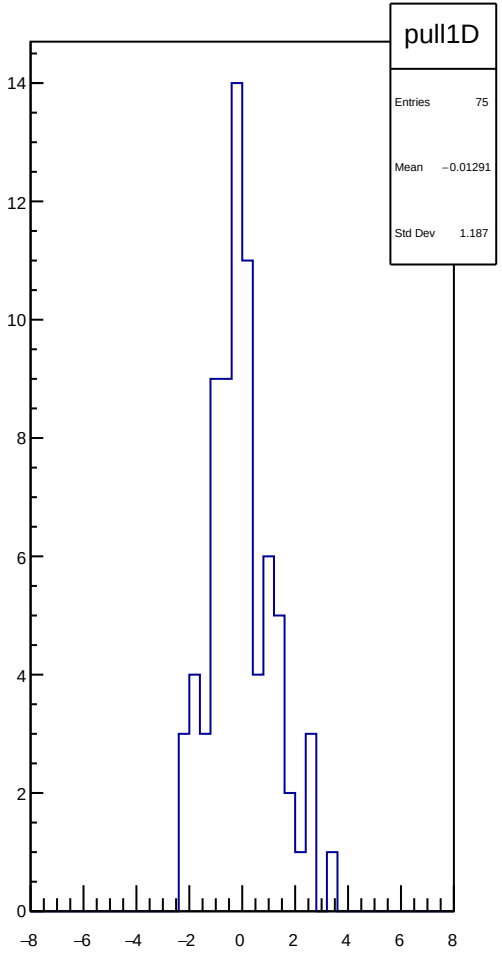

asym_at2_dd_correction_rms vs run
χ² / ndf 2638 / 74
p0 2365 ± 1.97
2700
2600
2500
2400
2300
2200
2100

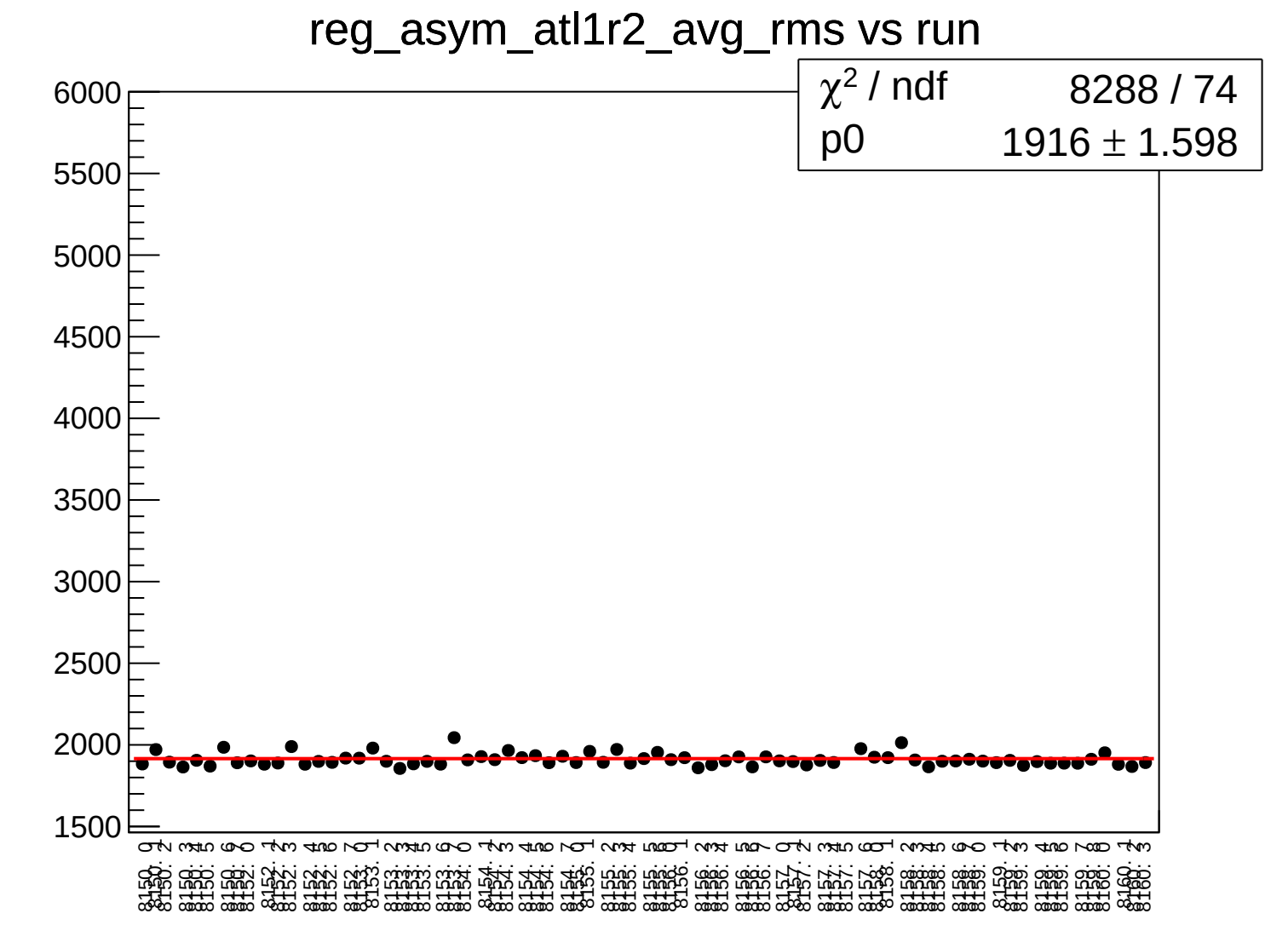

asym_at2_dd_mean vs run
×10^3
χ² / ndf 102.3 / 74
p0 −654.6 ± 3556
100
50
0
−50
−100
pull
Entries 75
Mean 265.1
Std Dev 195
2
1
0
−1
−2

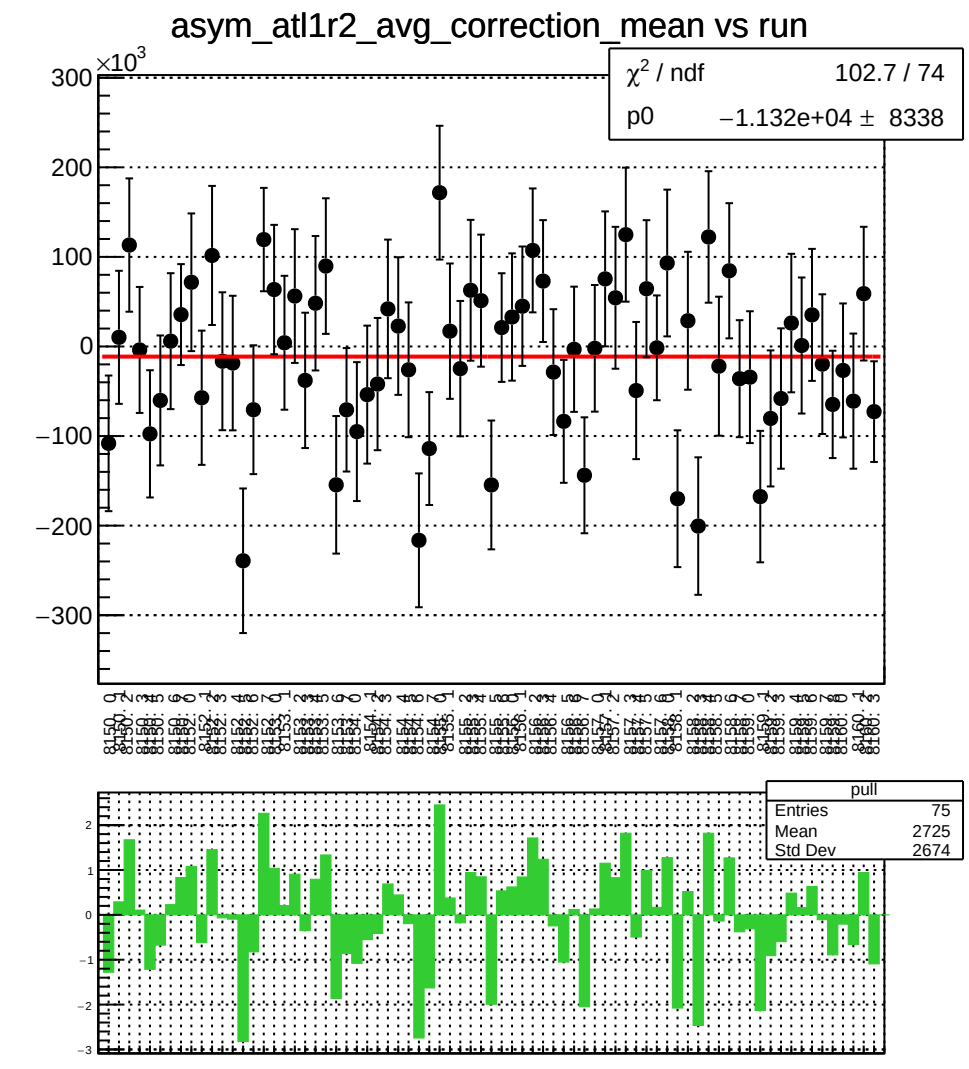

pull1D
Entries 75
Mean 0.004608
Std Dev 1.168
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

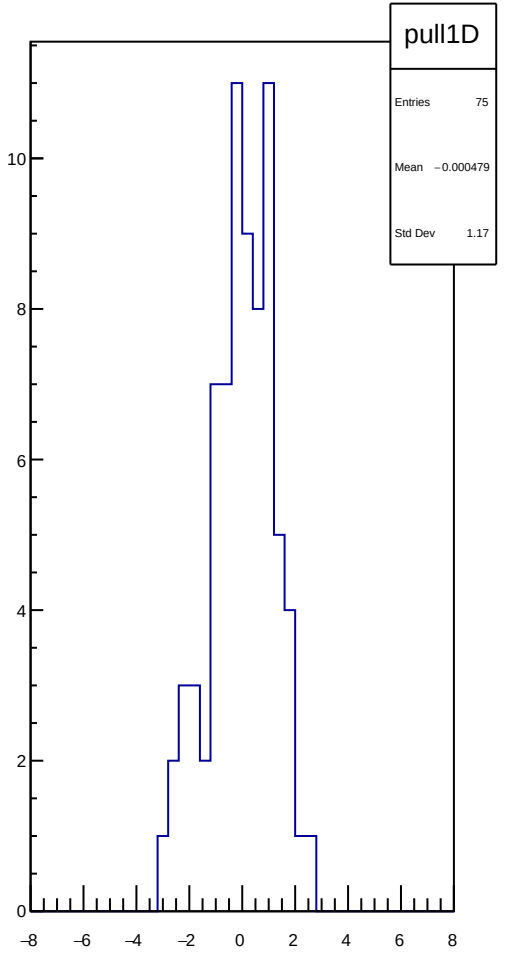

asym_at2_dd_rms vs run
χ² / ndf 1069 / 74
p0 3021 ± 2.515
3300
3200
3100
3000
2900
2800

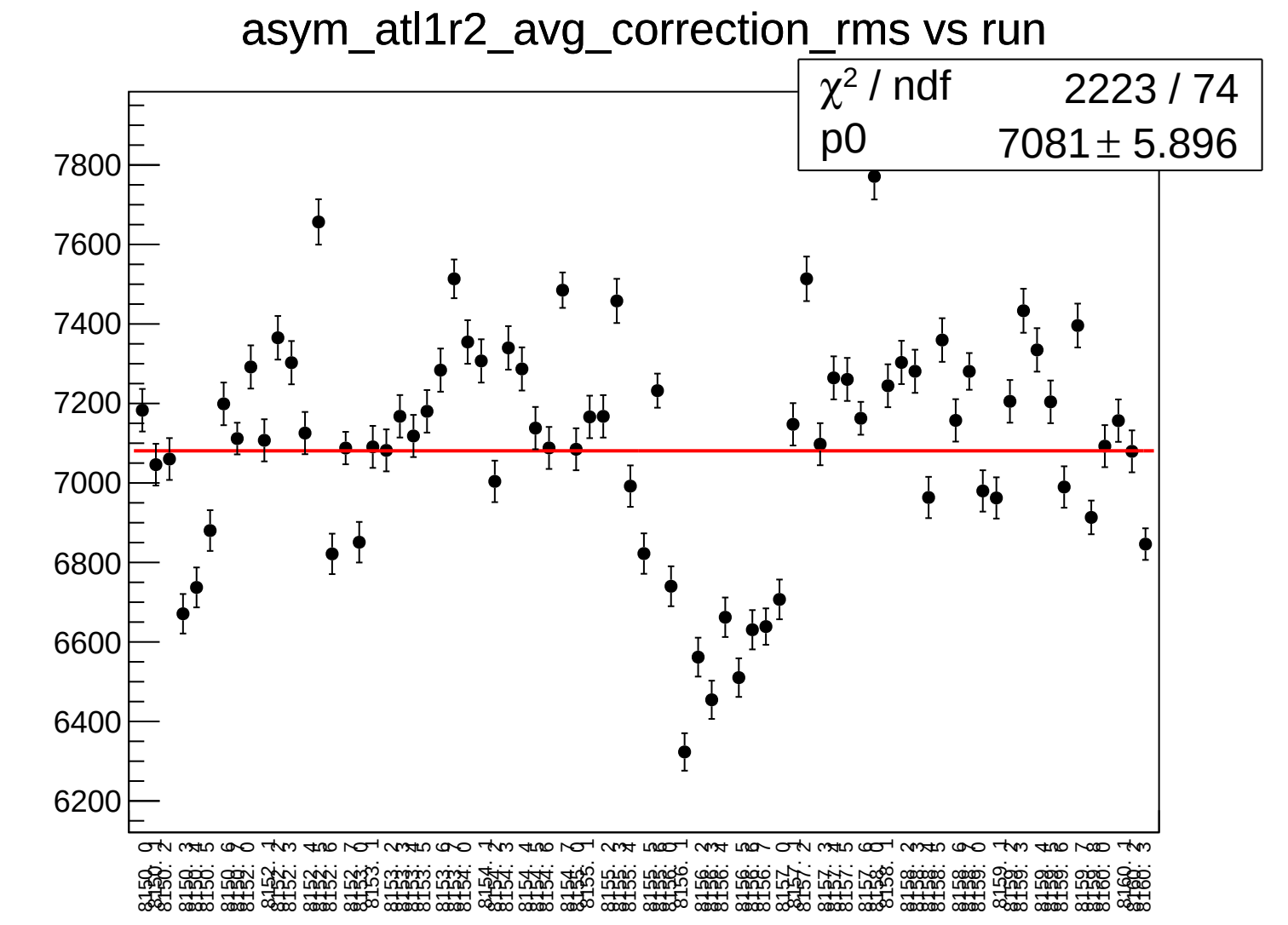

reg_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 105.8 / 74
p0 −1070 ± 2260
100
50
0
−50
−100
pull
Entries 75
Mean 27.13
Std Dev 68.53
3
2
1
0
−1
−2

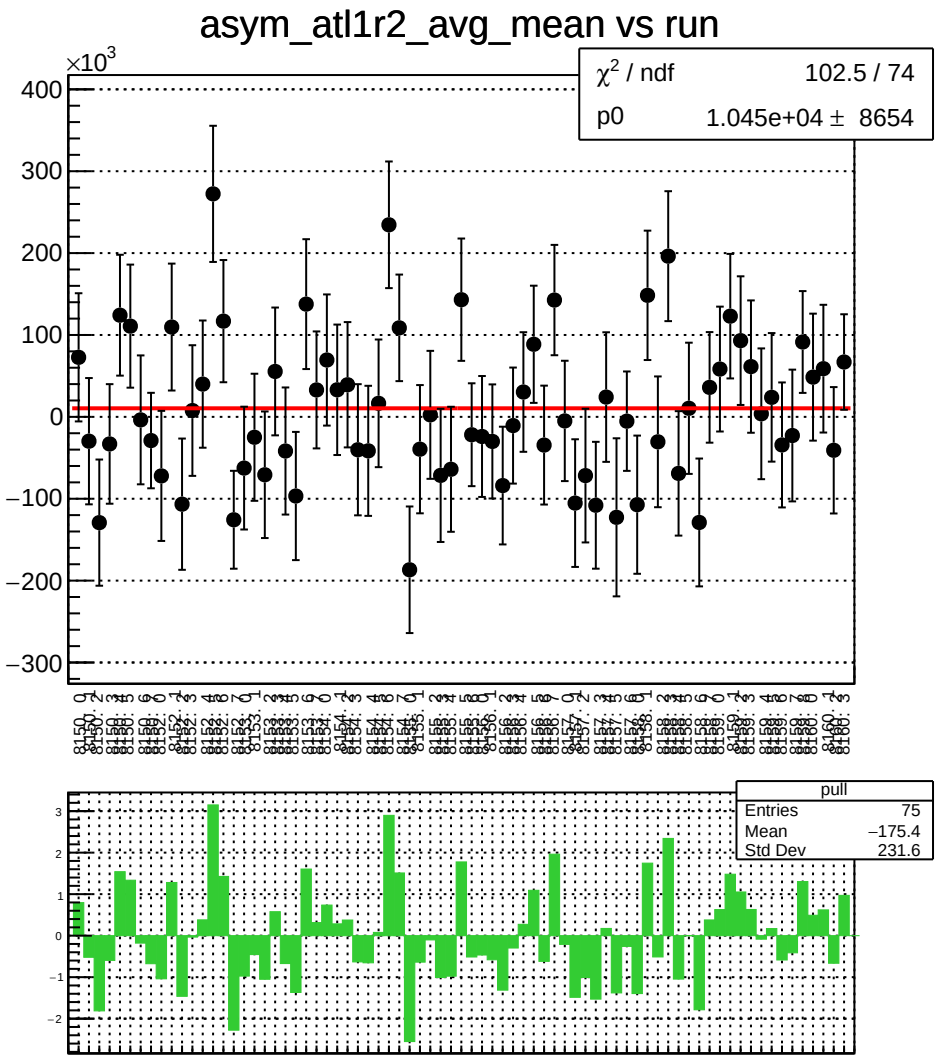

pull1D
Entries 75
Mean −0.01291
Std Dev 1.187
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

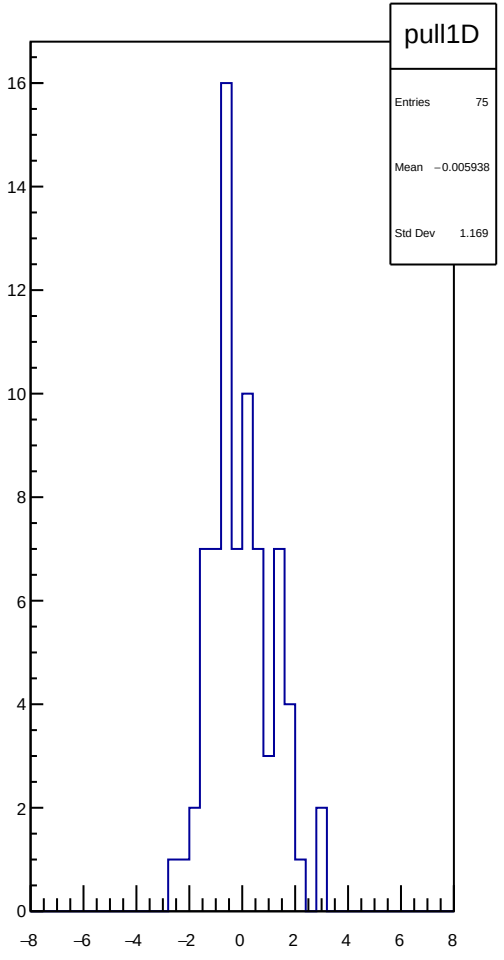

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 8288 / 74
p0 1916 ± 1.598
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

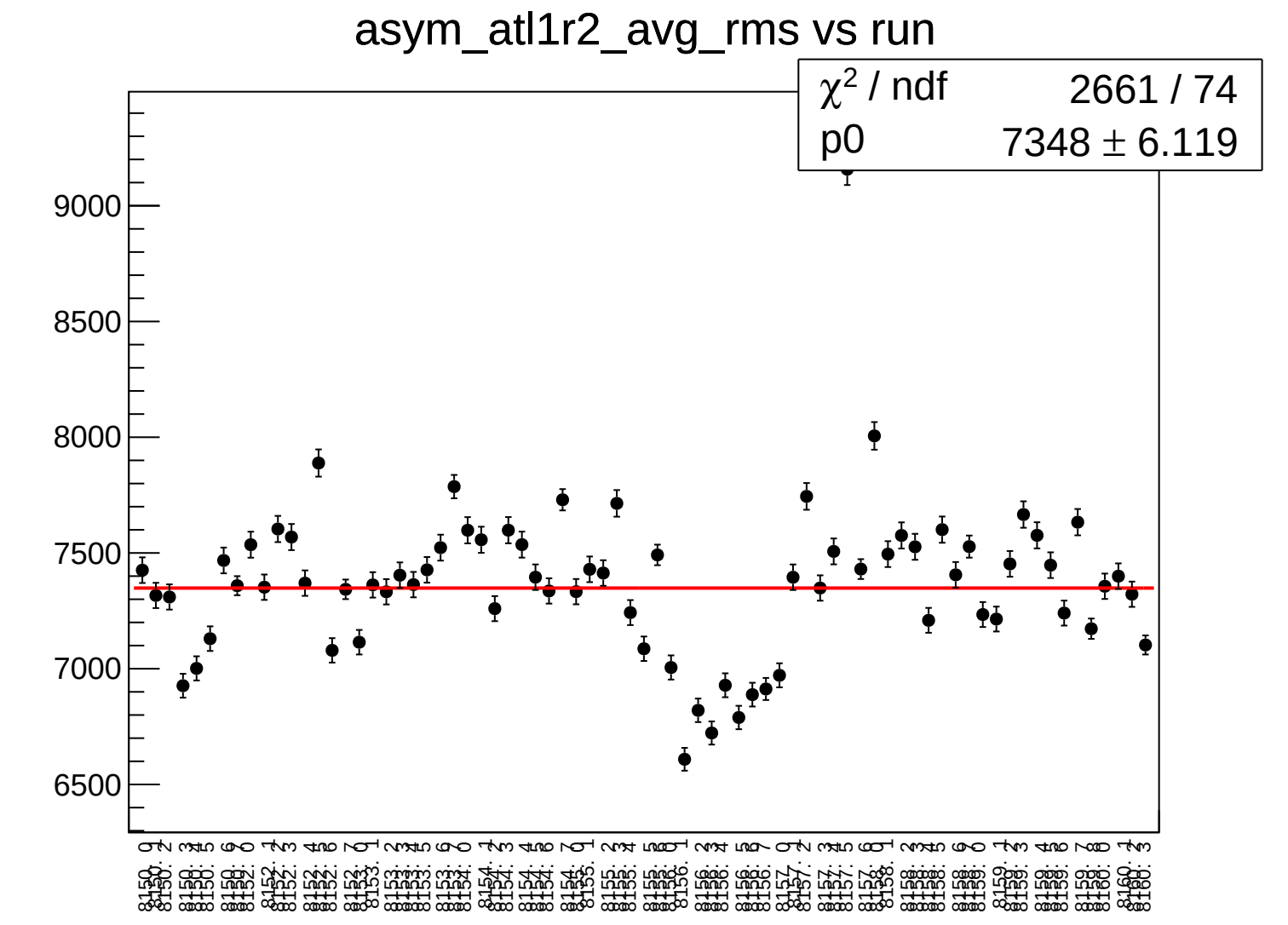

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 102.7 / 74
p0 −1.132e+04 ± 8338
pull
Entries 75
Mean 2725
Std Dev 2674

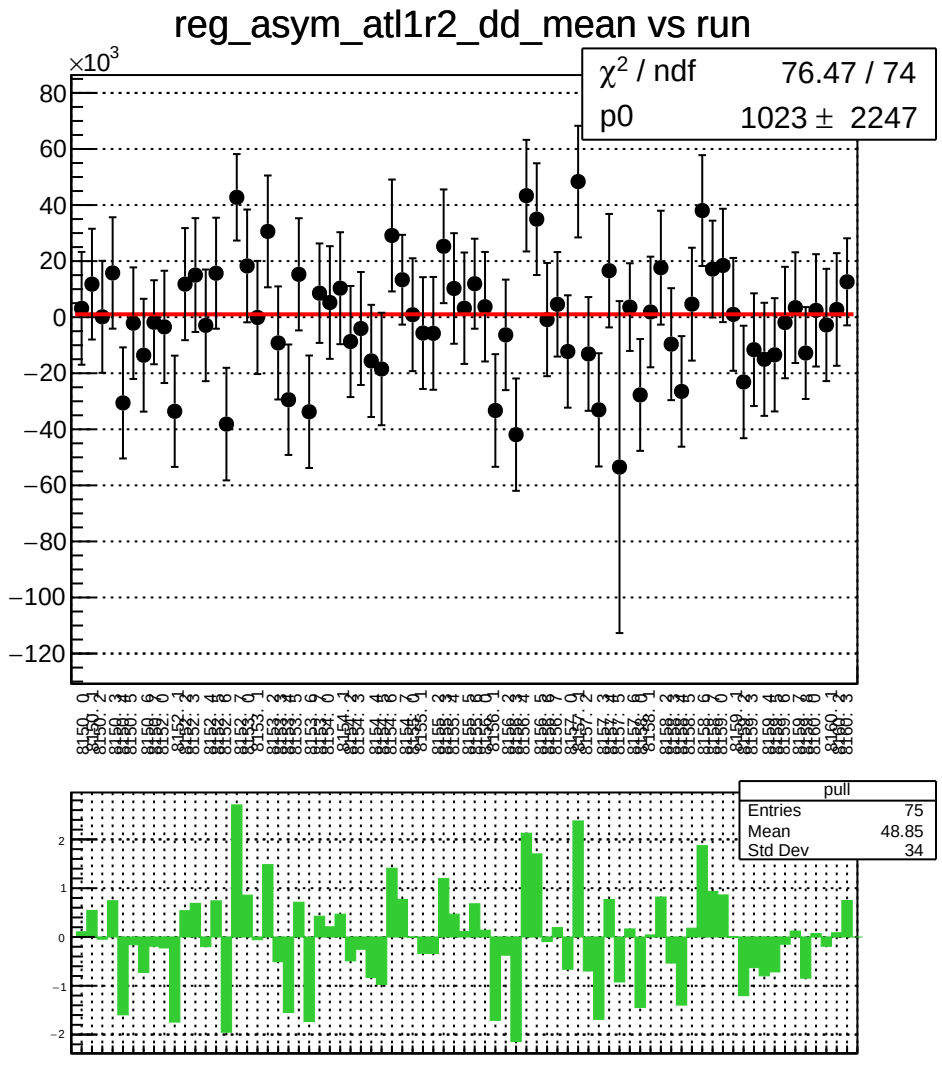

pull1D
Entries 75
Mean −0.000479
Std Dev 1.17

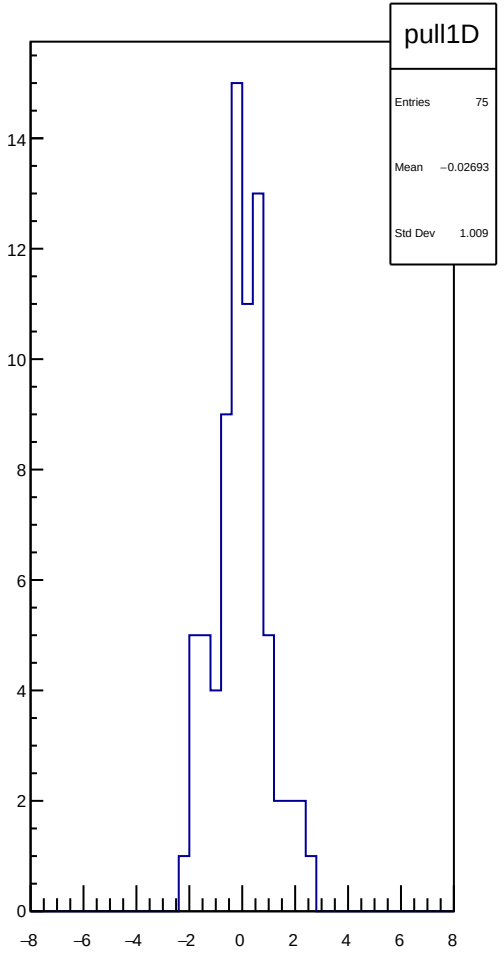

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 2223 / 74
p0 7081 ± 5.896
7800
7600
7400
7200
7000
6800
6600
6400
6200

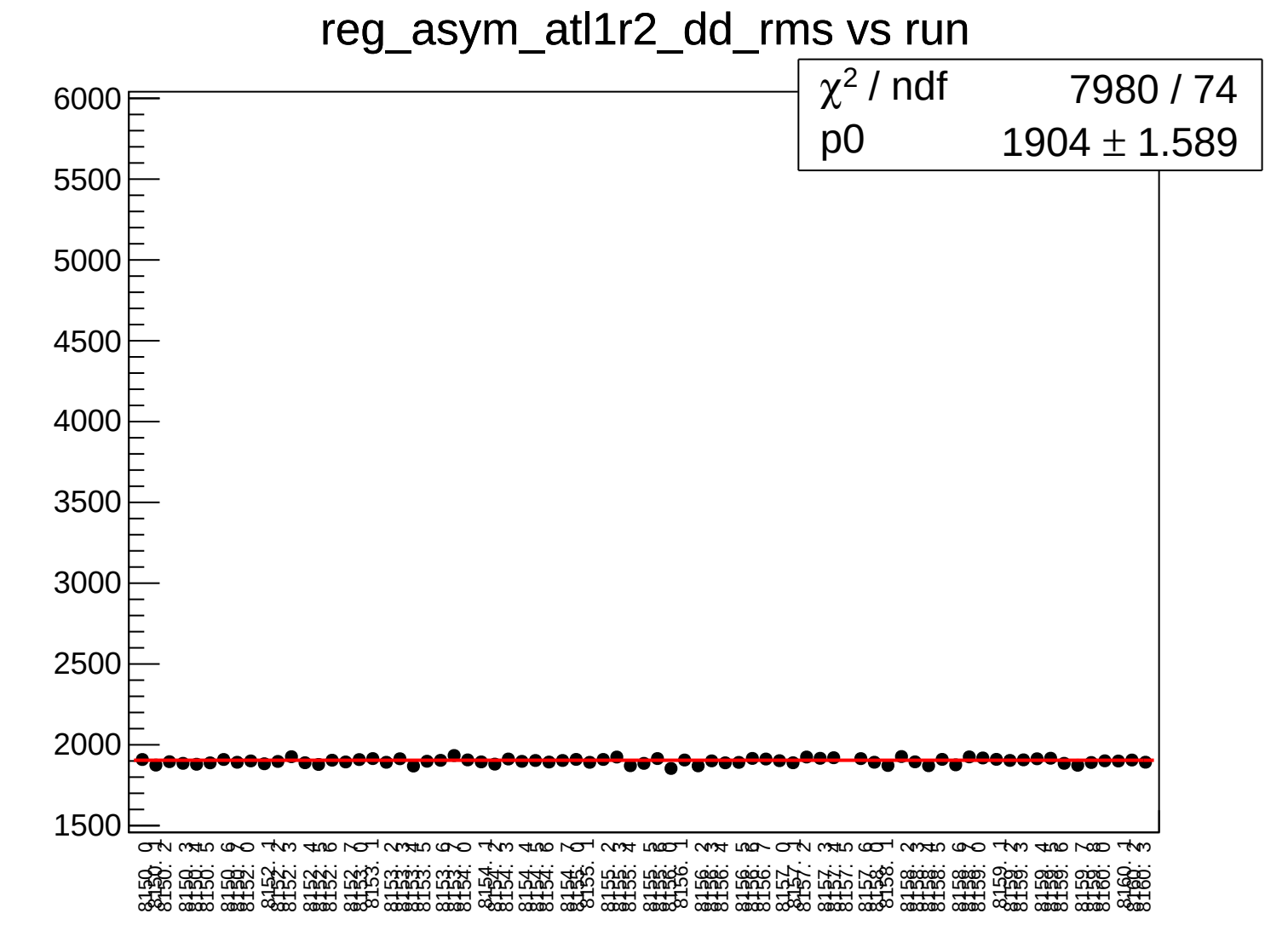

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 102.5 / 74
p0 1.045e+04 ± 8654
pull
Entries 75
Mean −175.4
Std Dev 231.6

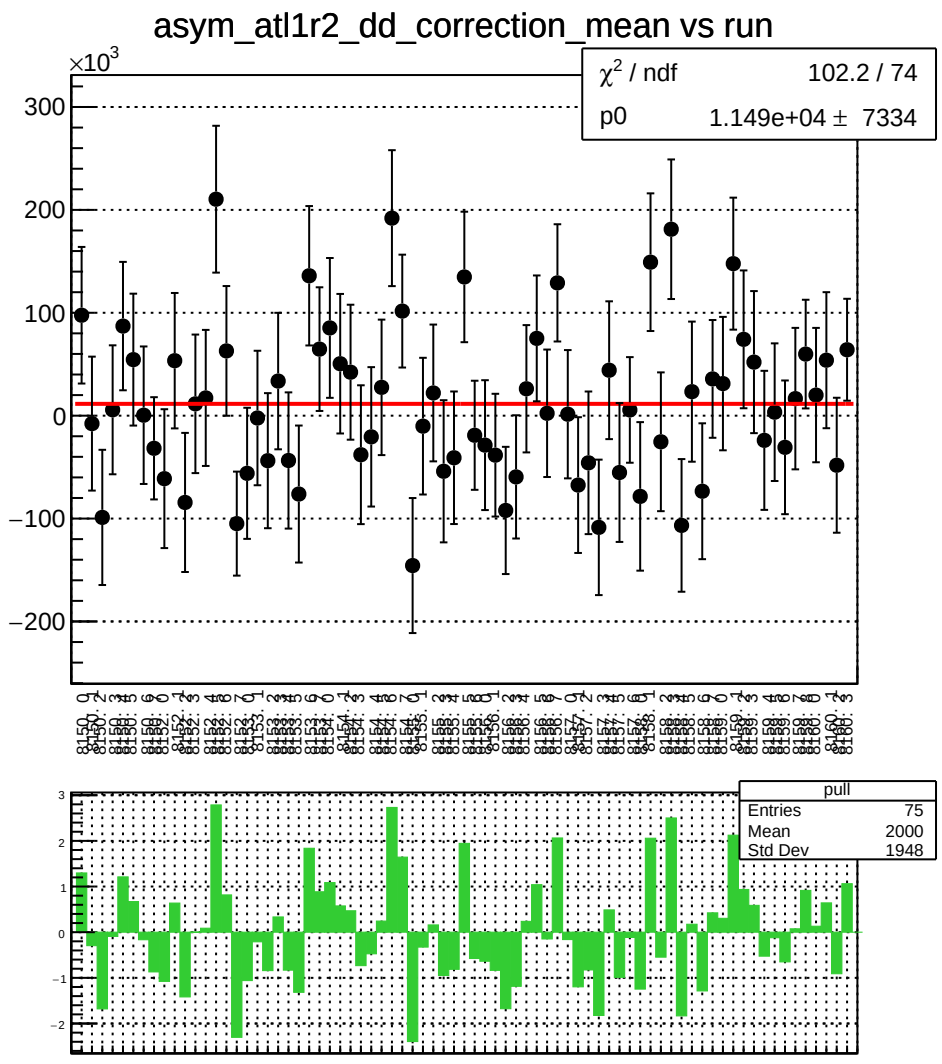

pull1D
Entries 75
Mean −0.005938
Std Dev 1.169

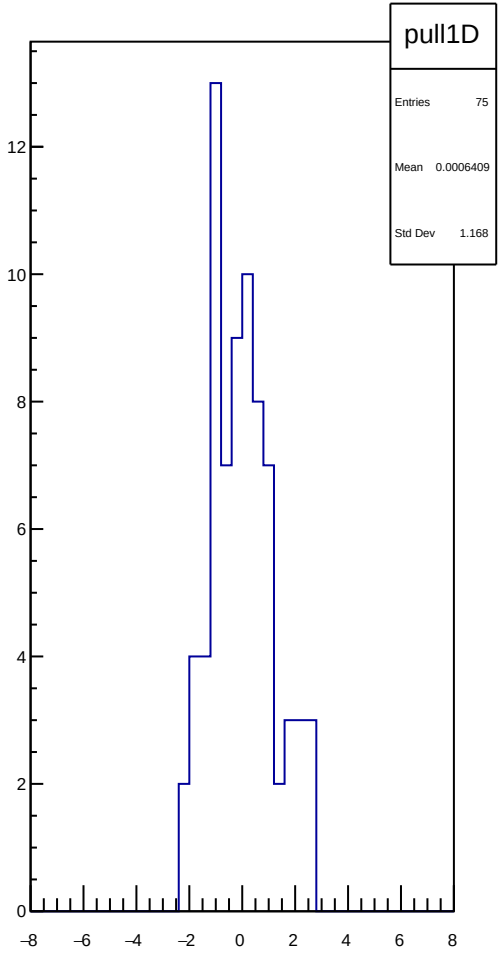

asym_atl1r2_avg_rms vs run
χ² / ndf 2661 / 74
p0 7348 ± 6.119
9000
8500
8000
7500
7000
6500

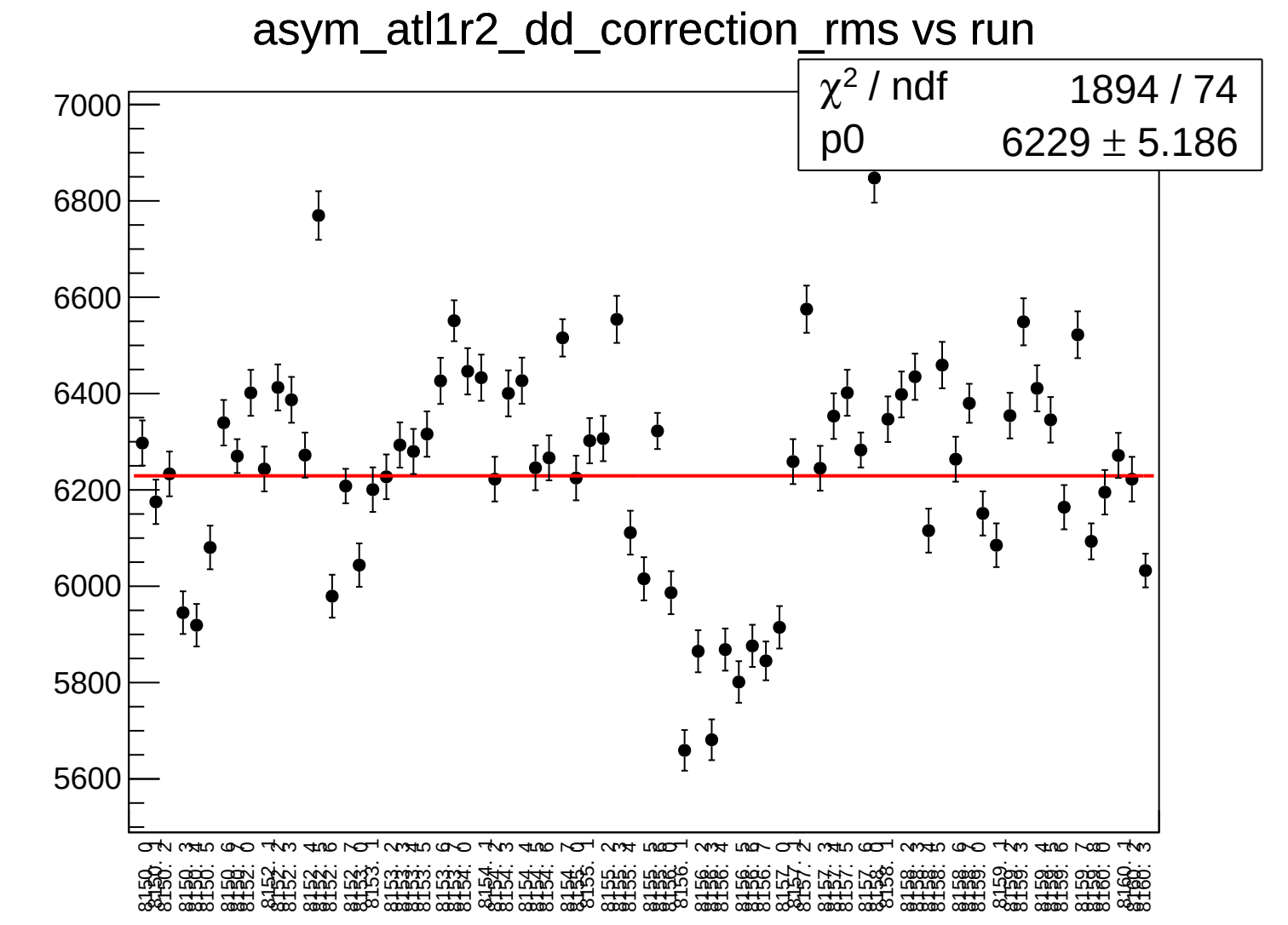

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 76.47 / 74
p0 1023 ± 2247
pull
Entries 75
Mean 48.85
Std Dev 34

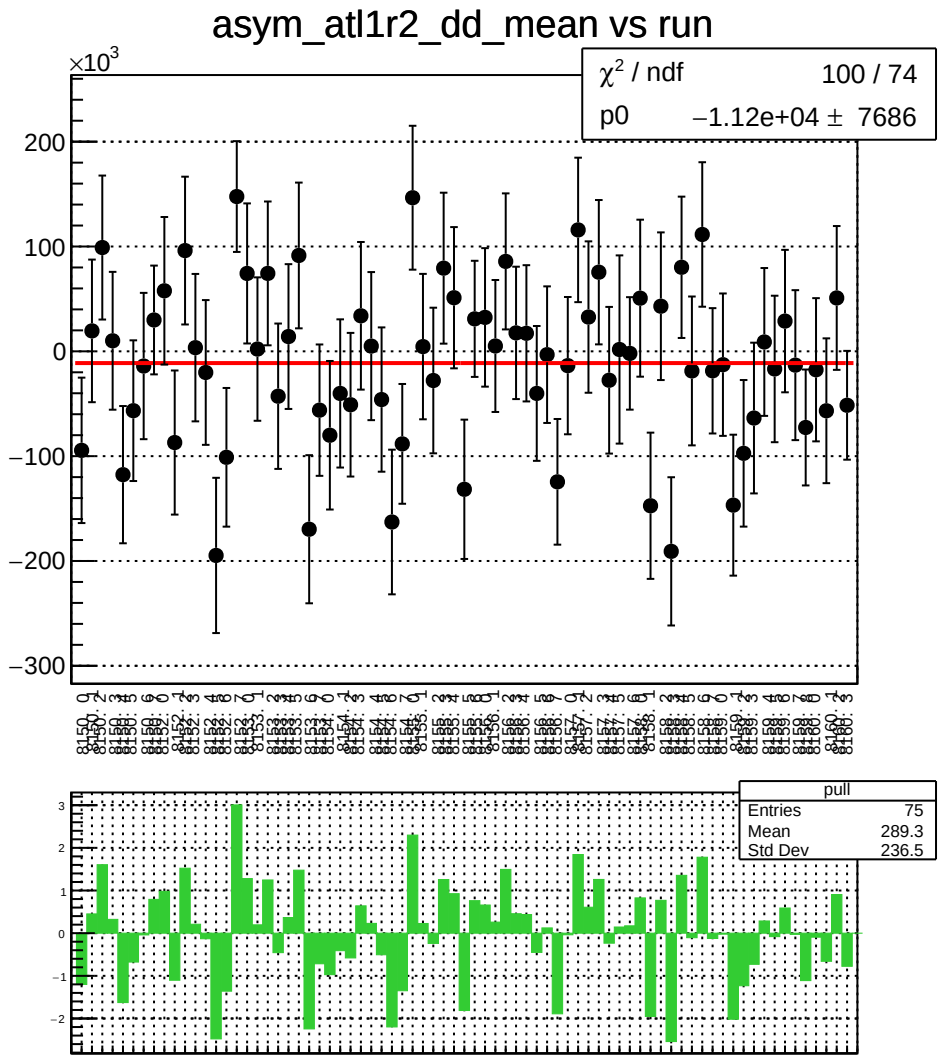

pull1D
Entries 75
Mean −0.02693
Std Dev 1.009

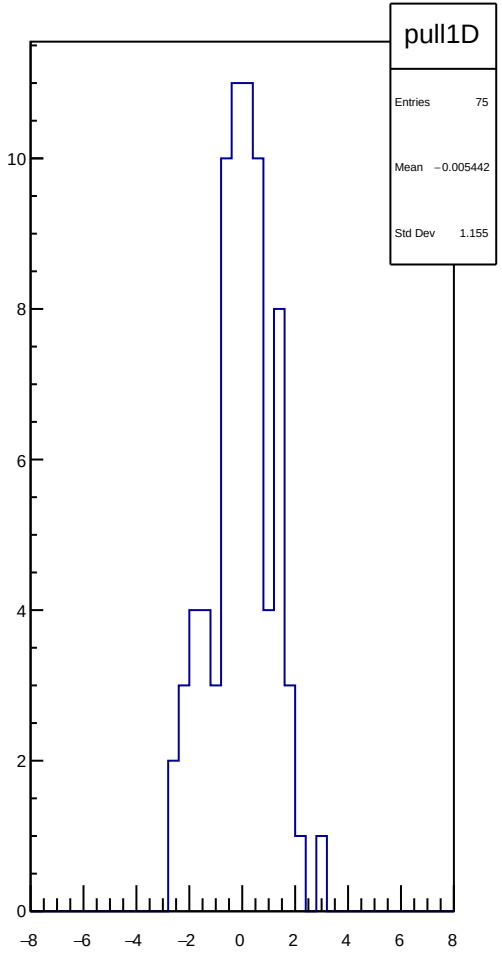

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 7980 / 74
p0 1904 ± 1.589
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

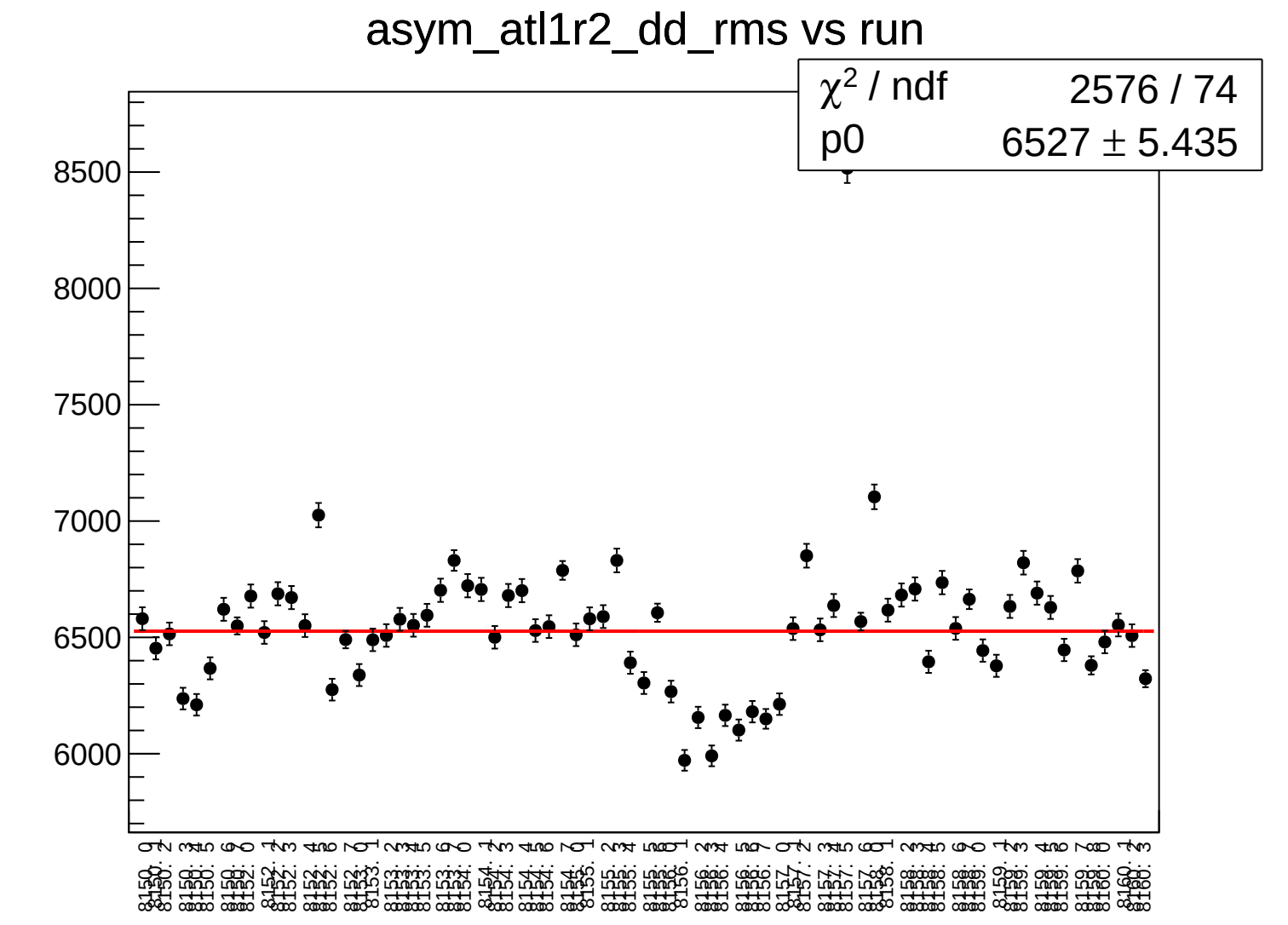

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 102.2 / 74
p0 1.149e+04 ± 7334
300
200
100
0
−100
−200
pull
Entries 75
Mean 2000
Std Dev 1948
3
2
1
0
−1
−2

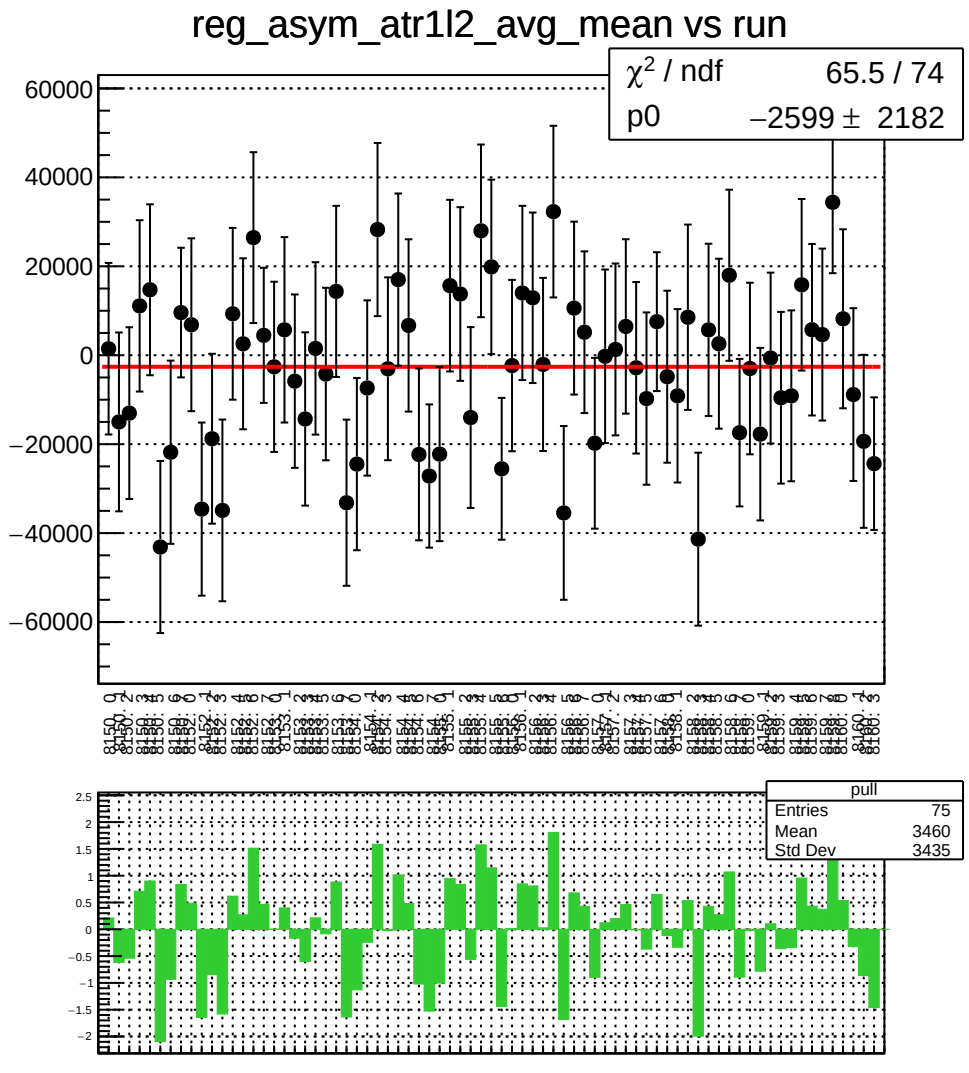

pull1D
Entries 75
Mean 0.0006409
Std Dev 1.168
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

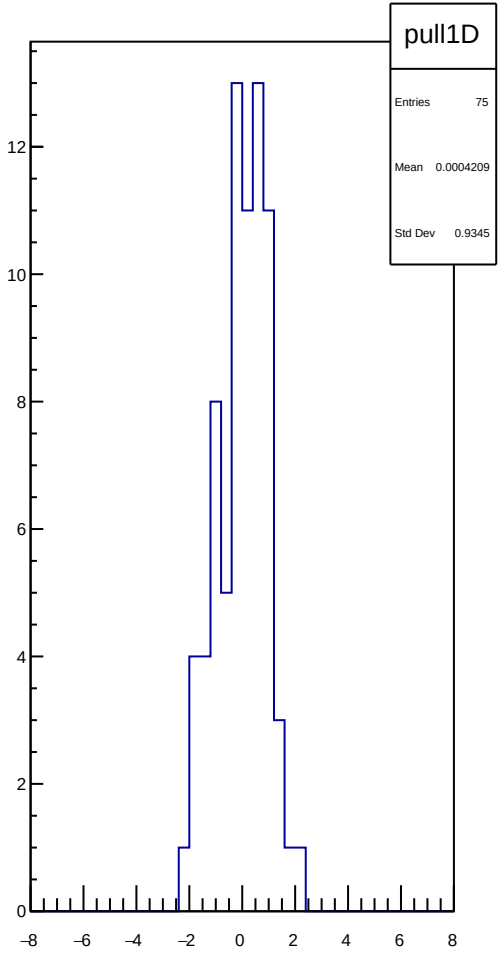

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 1894 / 74
p0 6229 ± 5.186
7000
6800
6600
6400
6200
6000
5800
5600

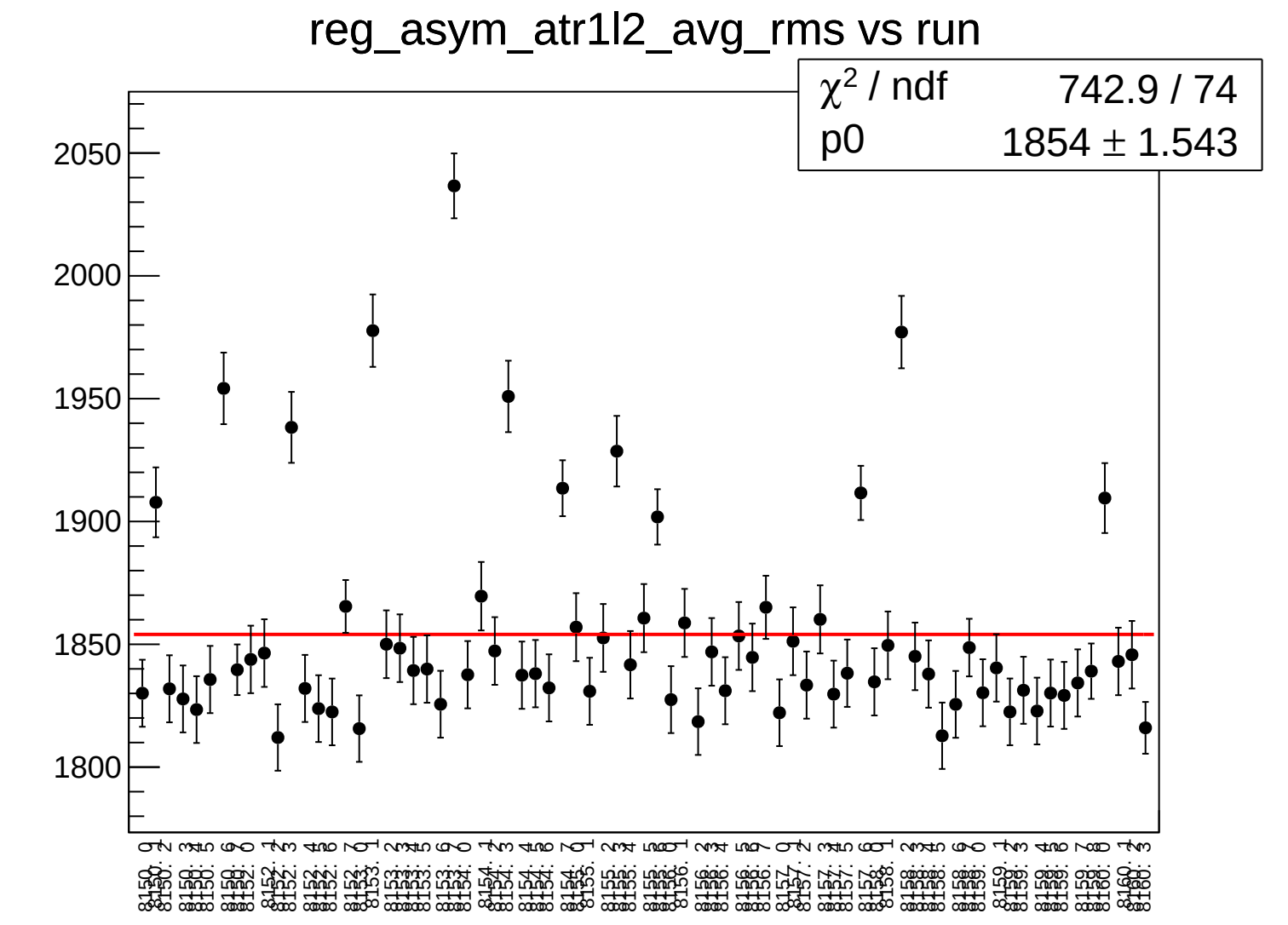

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 100 / 74
p0 −1.12e+04 ± 7686
pull
Entries 75
Mean 289.3
Std Dev 236.5

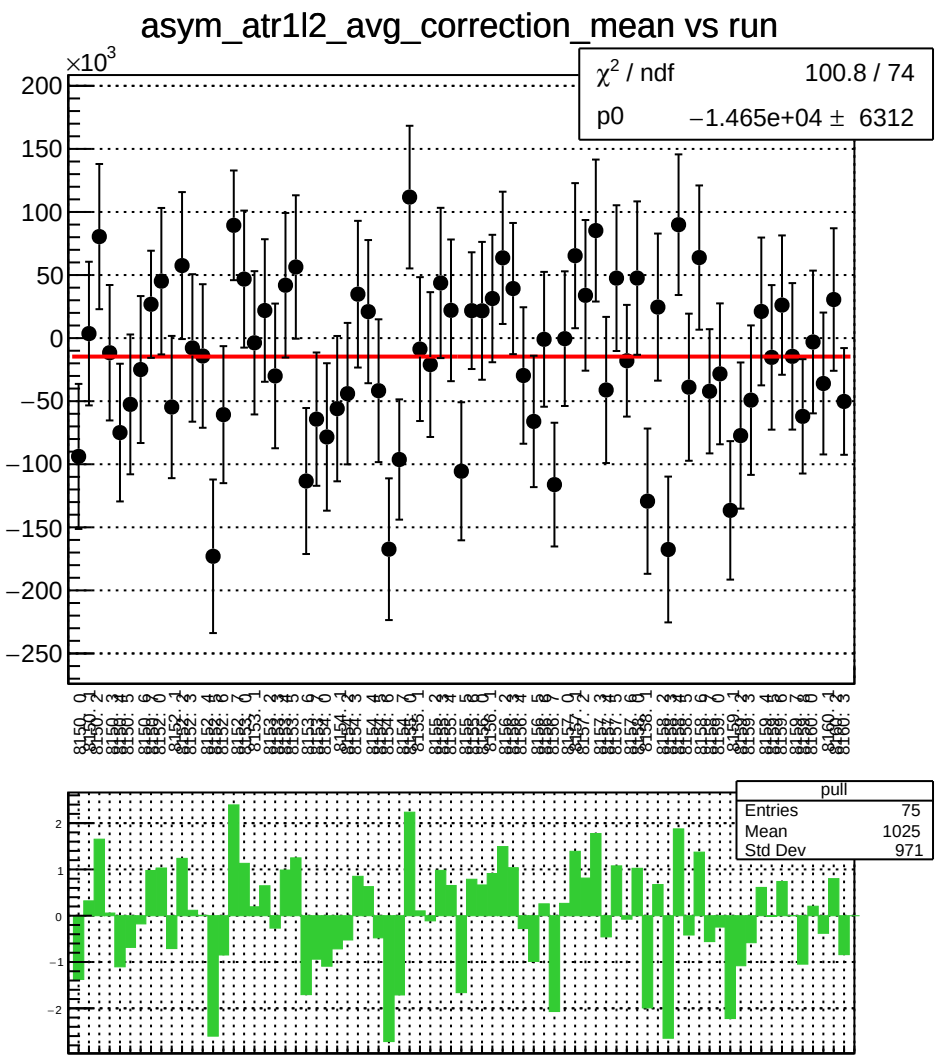

pull1D
Entries 75
Mean −0.005442
Std Dev 1.155

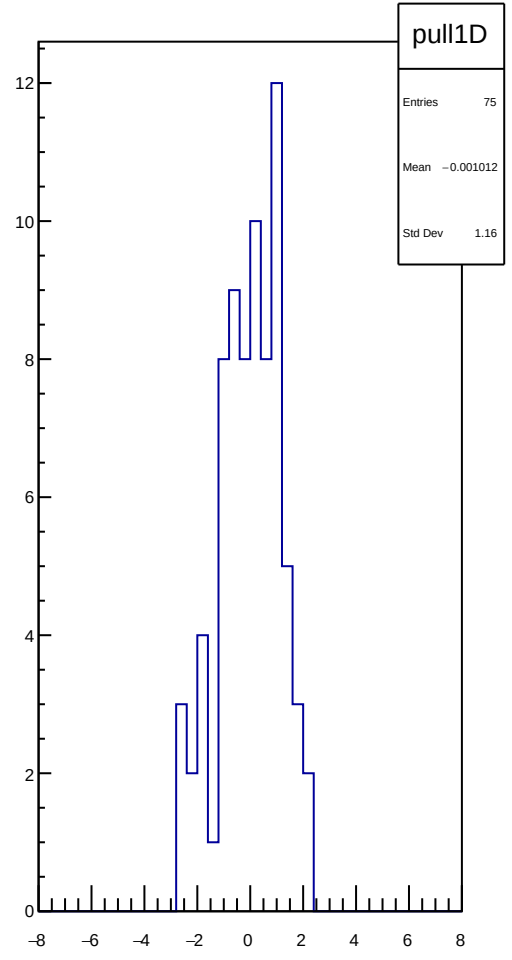

asym_atl1r2_dd_rms vs run
χ^2 / ndf 2576 / 74
p0 6527 ± 5.435
8500
8000
7500
7000
6500
6000

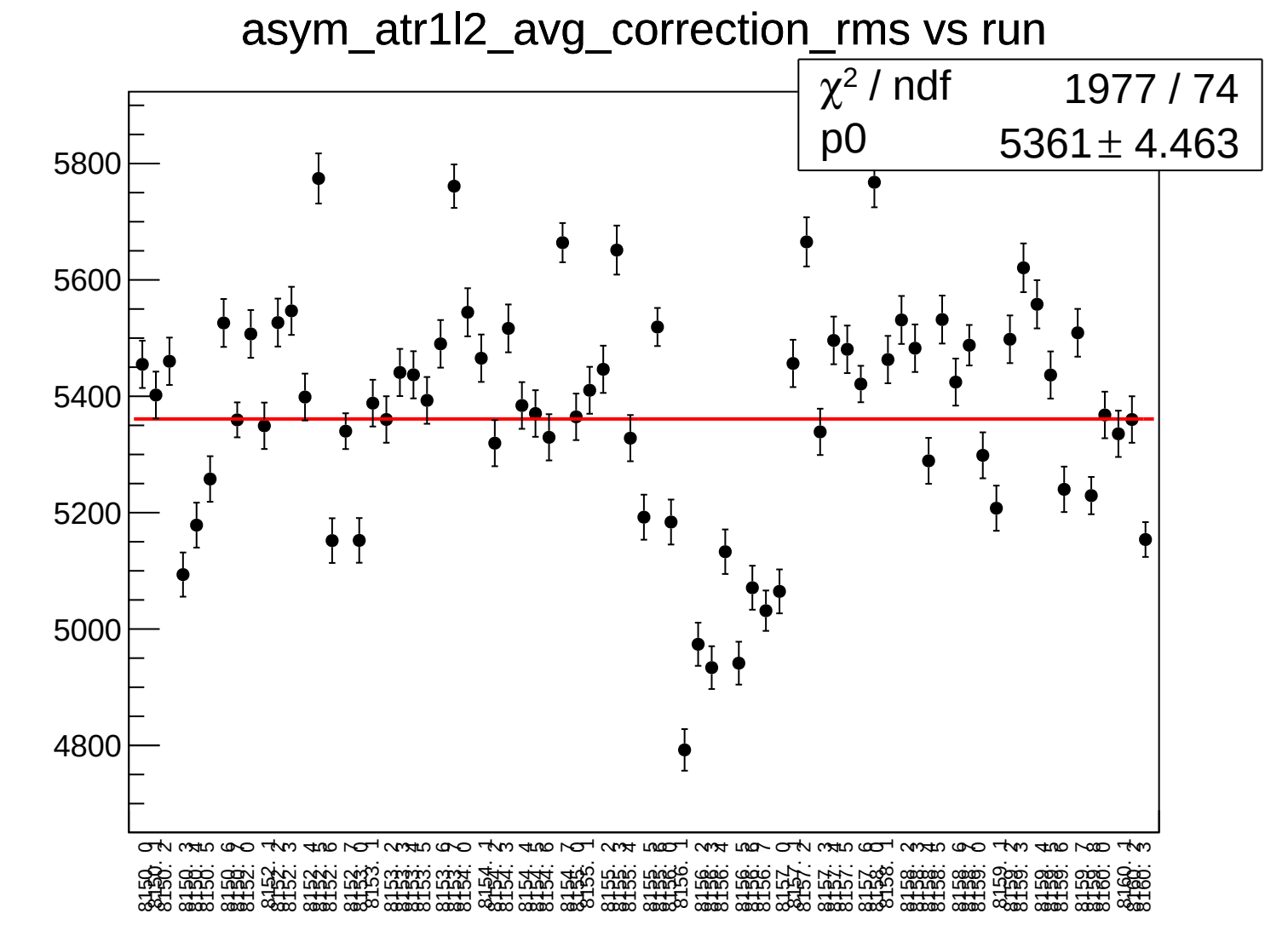

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 65.5 / 74
p0 −2599 ± 2182
pull
Entries 75
Mean 3460
Std Dev 3435

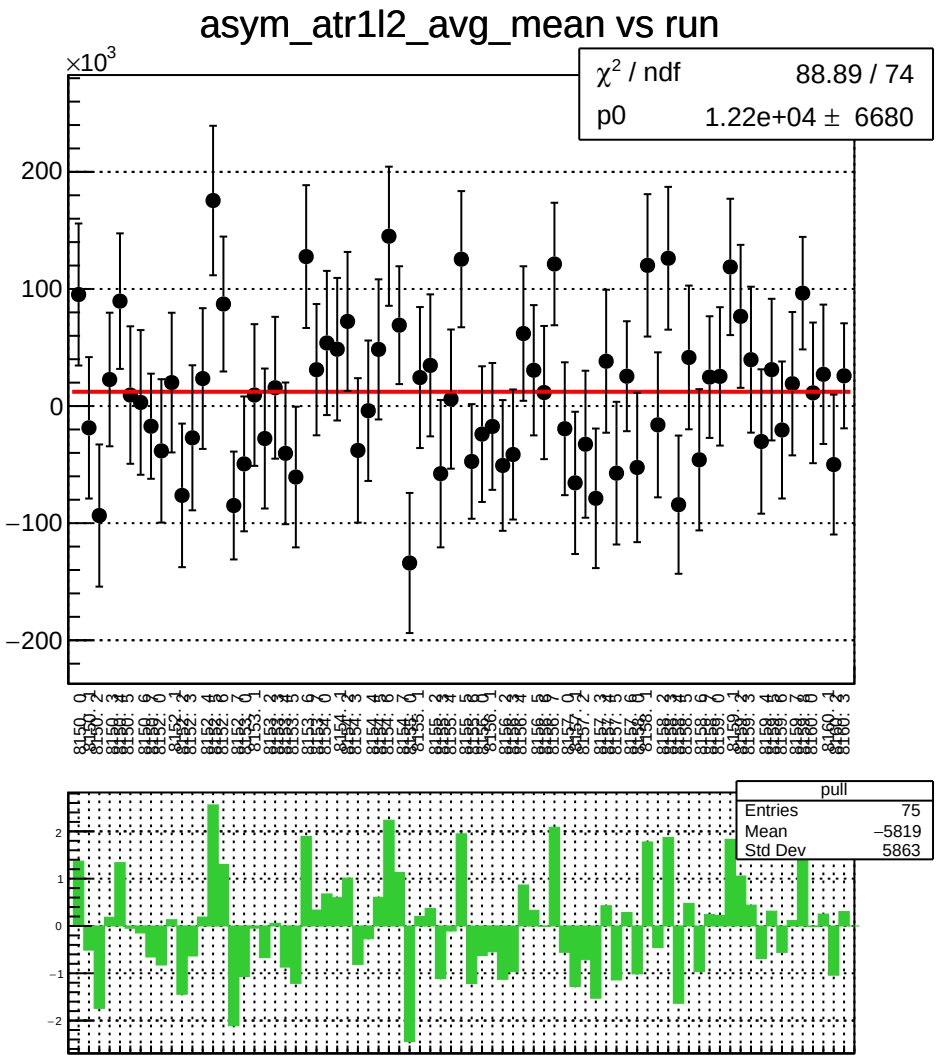

pull1D
Entries 75
Mean 0.0004209
Std Dev 0.9345

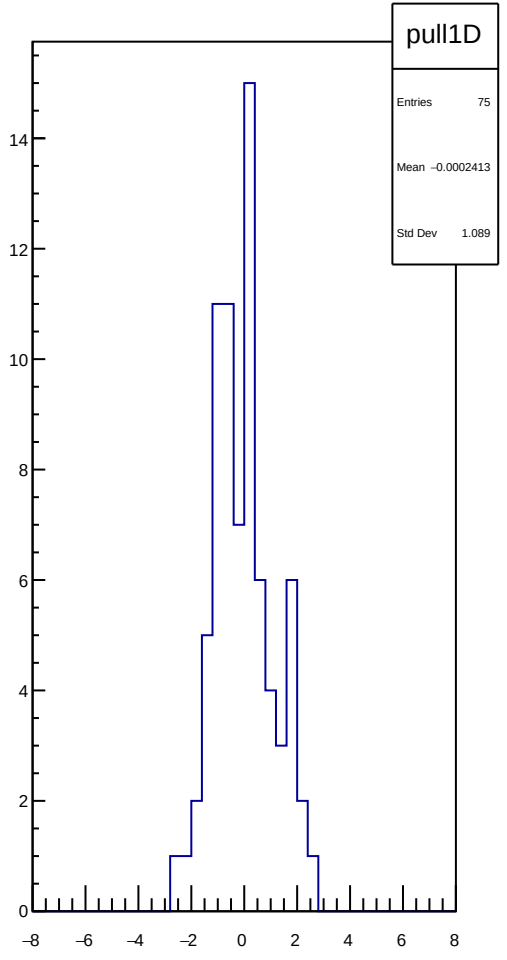

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 742.9 / 74
p0 1854 ± 1.543
2050
2000
1950
1900
1850
1800

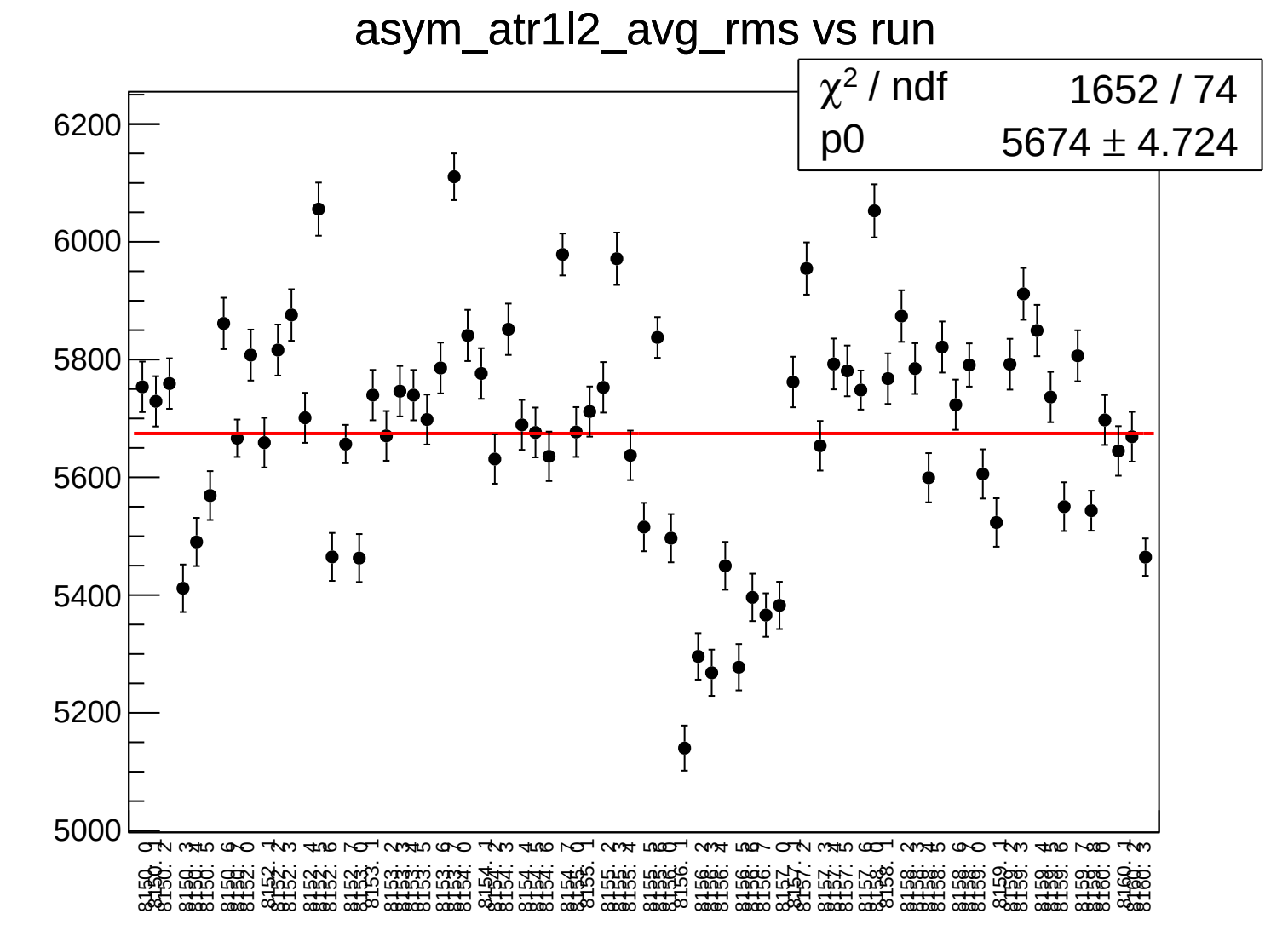

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 100.8 / 74
p0 −1.465e+04 ± 6312
pull
Entries 75
Mean 1025
Std Dev 971

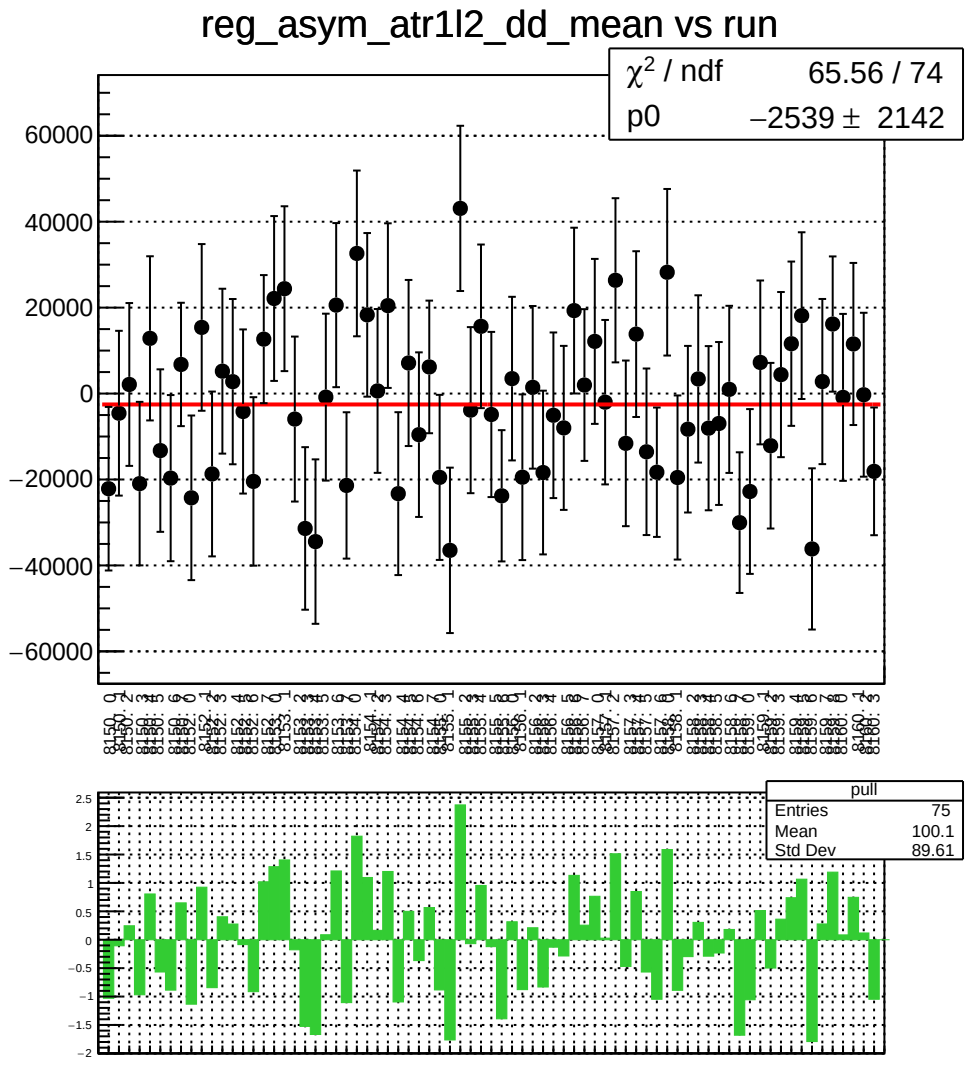

pull1D
Entries 75
Mean −0.001012
Std Dev 1.16

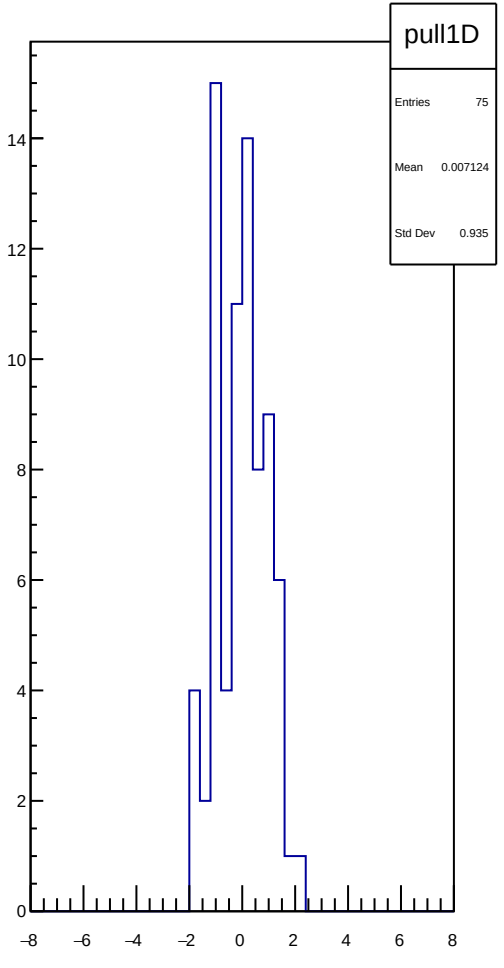

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 1977 / 74
p0 5361 ± 4.463
5800
5600
5400
5200
5000
4800

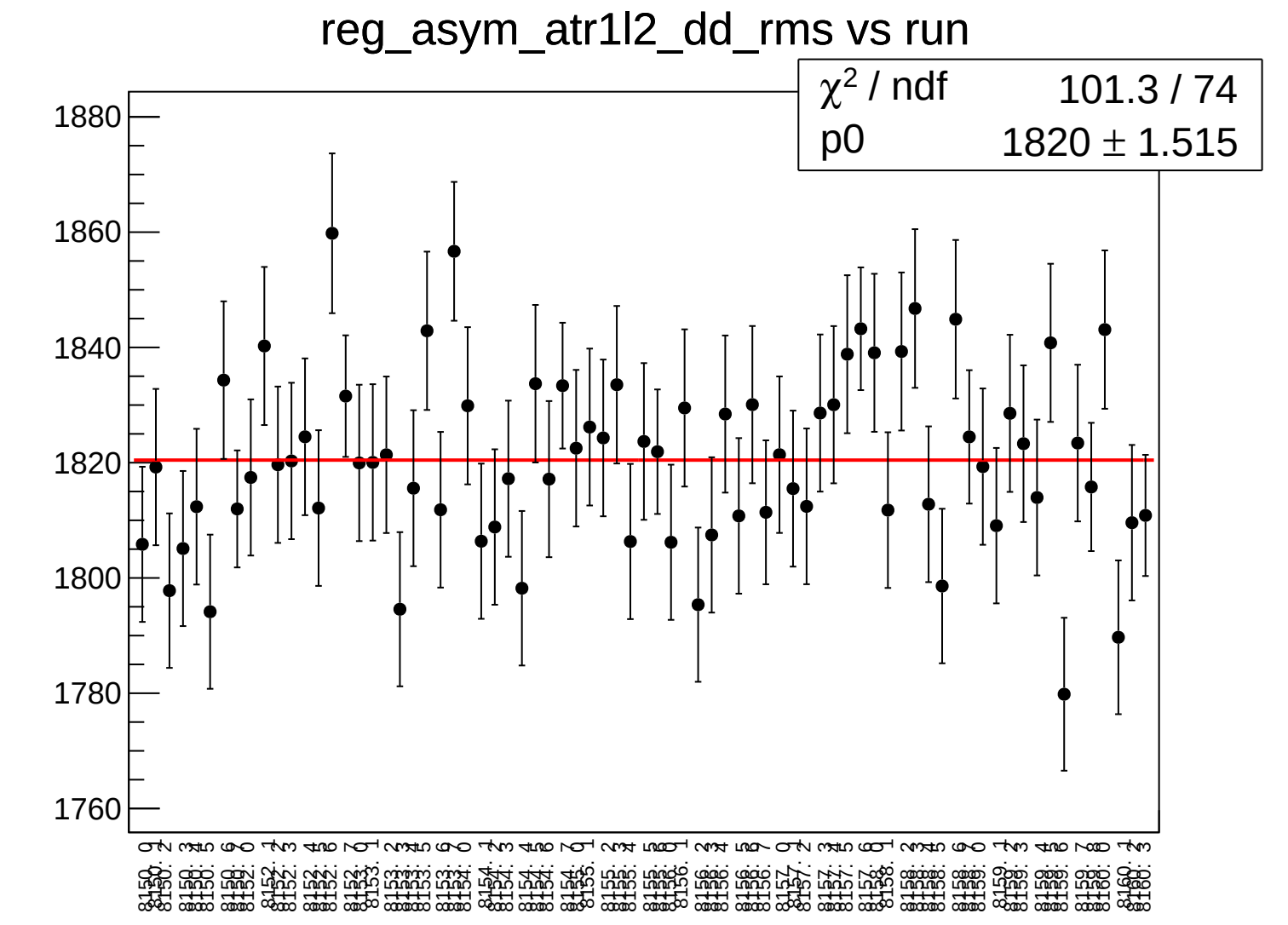

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 88.89 / 74
p0 1.22e+04 ± 6680
200
100
0
−100
−200
pull
Entries 75
Mean −5819
Std Dev 5863
2
1
0
−1
−2

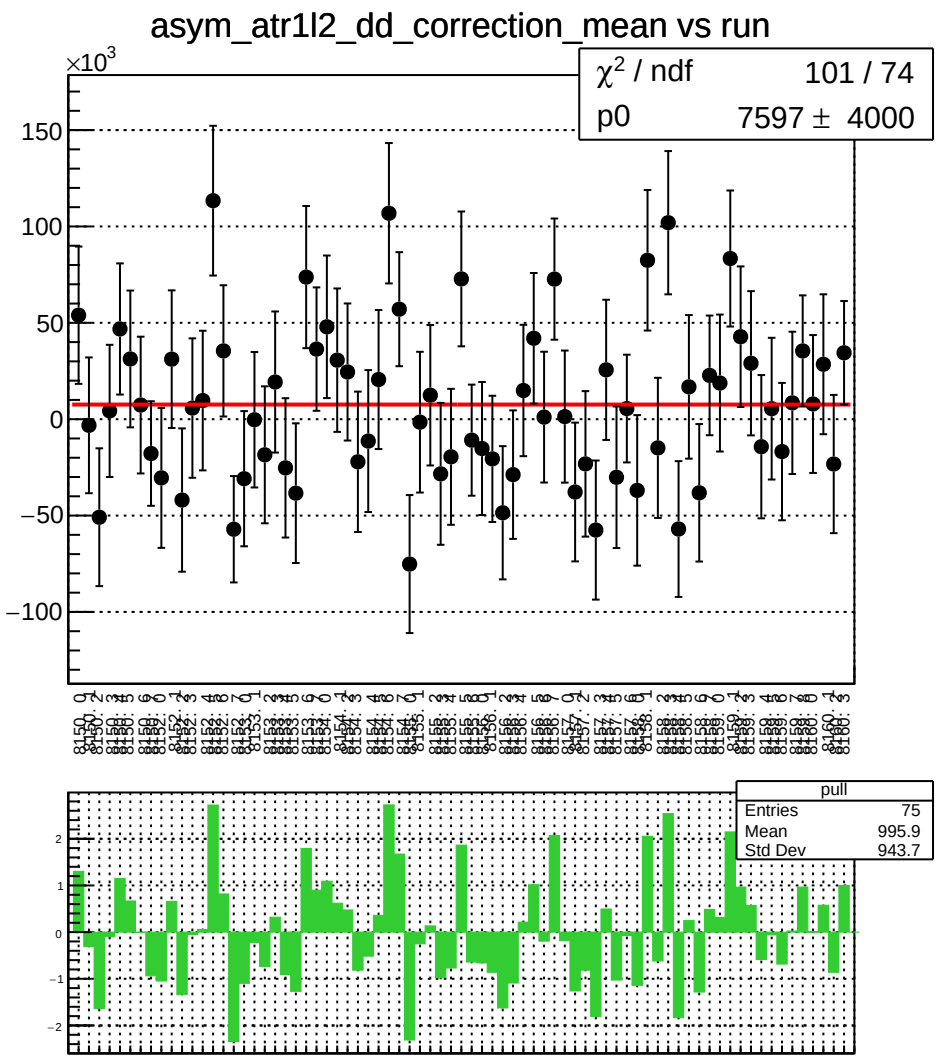

pull1D
Entries 75
Mean −0.0002413
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

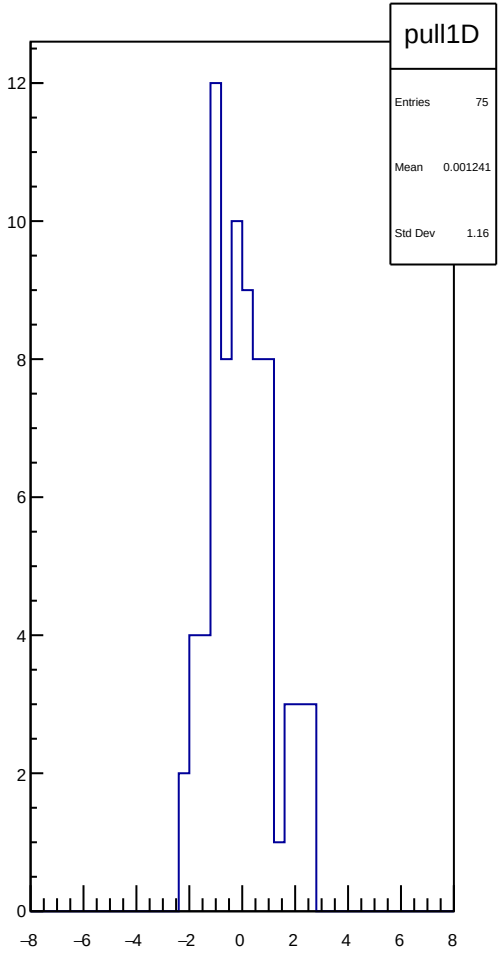

asym_atr1l2_avg_rms vs run
χ² / ndf 1652 / 74
p0 5674 ± 4.724
6200
6000
5800
5600
5400
5200
5000

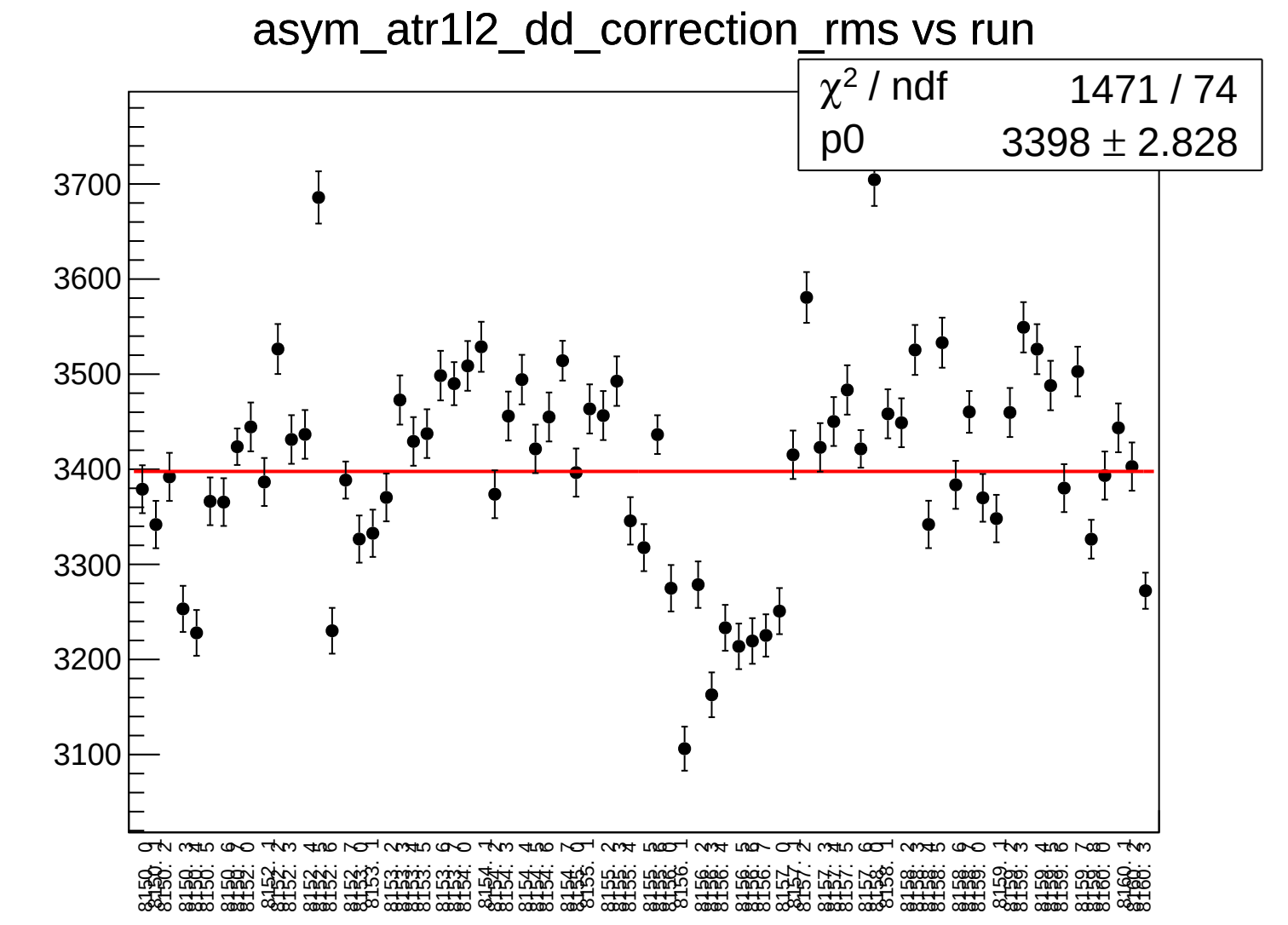

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 65.56 / 74
p0 −2539 ± 2142
pull
Entries 75
Mean 100.1
Std Dev 89.61

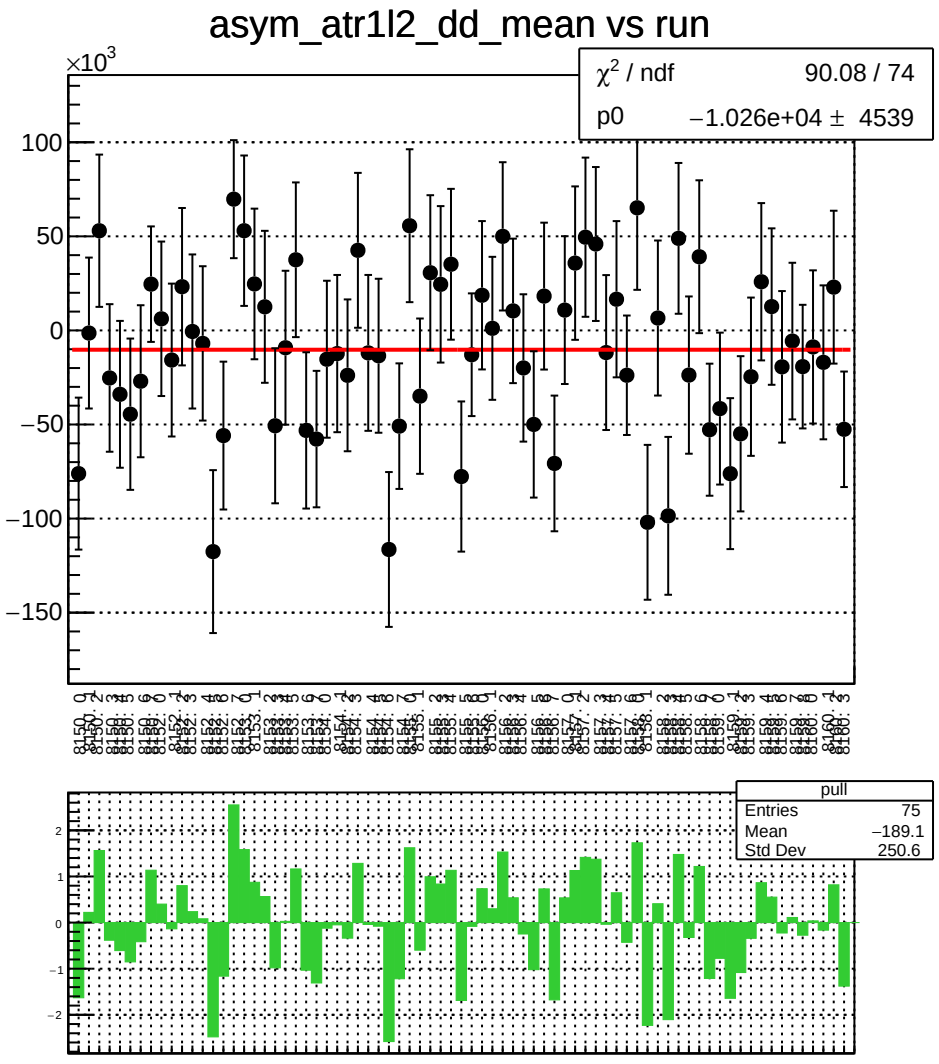

pull1D
Entries 75
Mean 0.007124
Std Dev 0.935

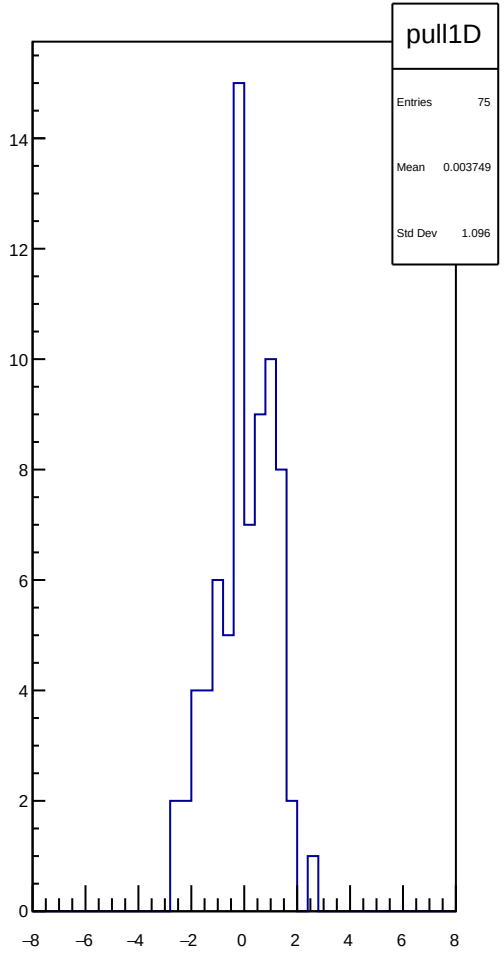

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 101.3 / 74
p0 1820 ± 1.515
1880
1860
1840
1820
1800
1780
1760

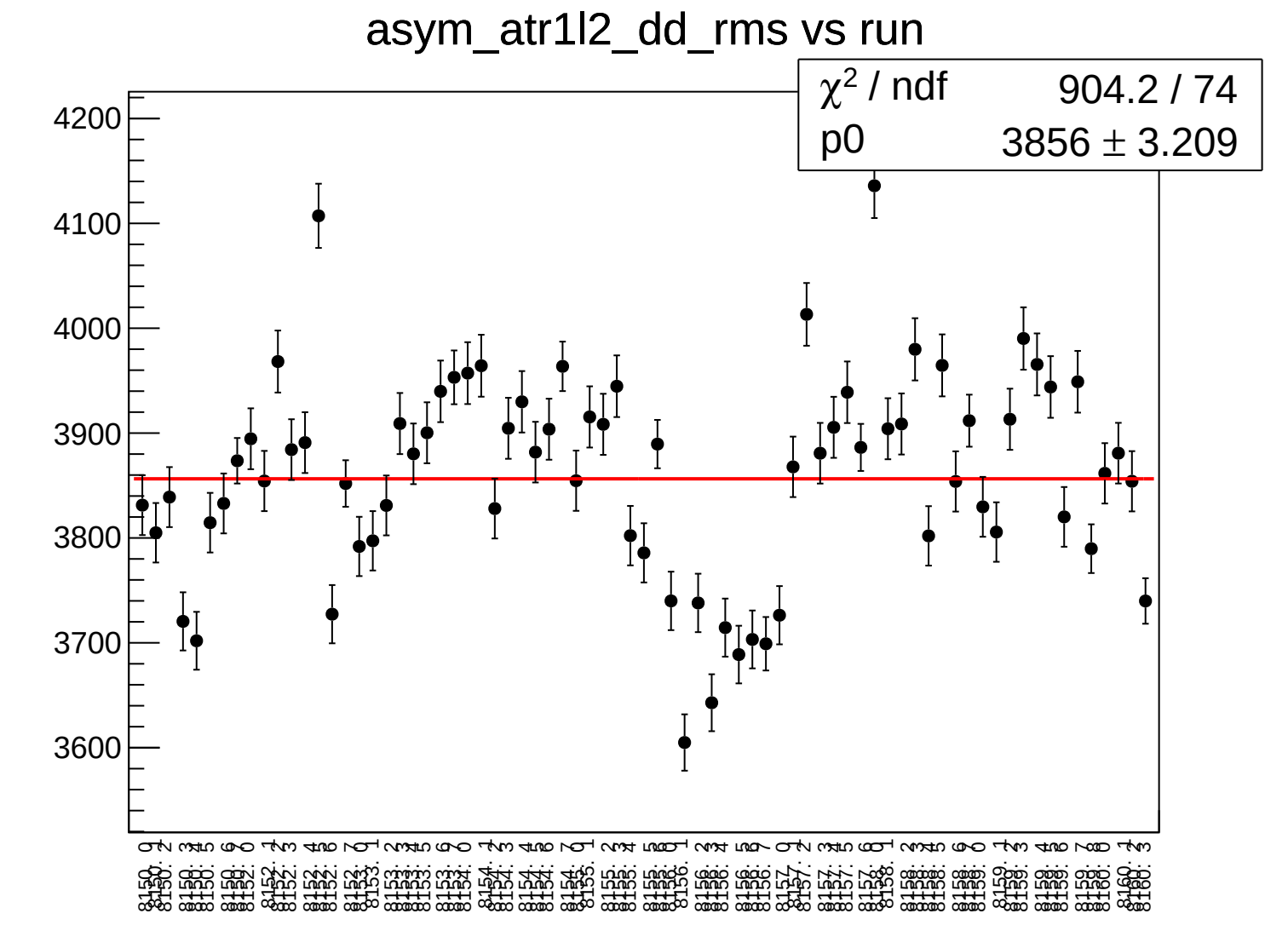

asym_atr1l2_dd_correction_mean vs run
×10^3
χ² / ndf 101 / 74
p0 7597 ± 4000
150
100
50
0
−50
−100
pull
Entries 75
Mean 995.9
Std Dev 943.7
2
1
0
−1
−2

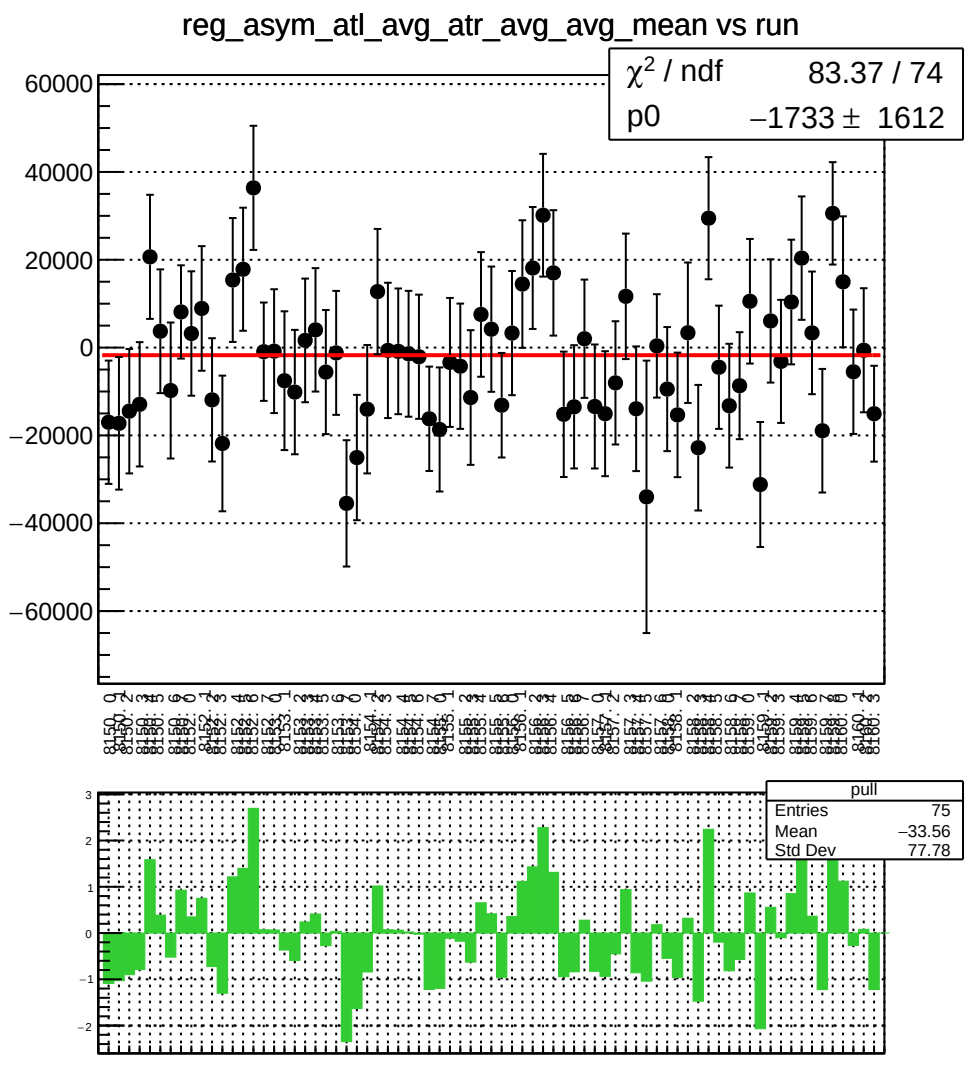

pull1D
Entries 75
Mean 0.001241
Std Dev 1.16
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

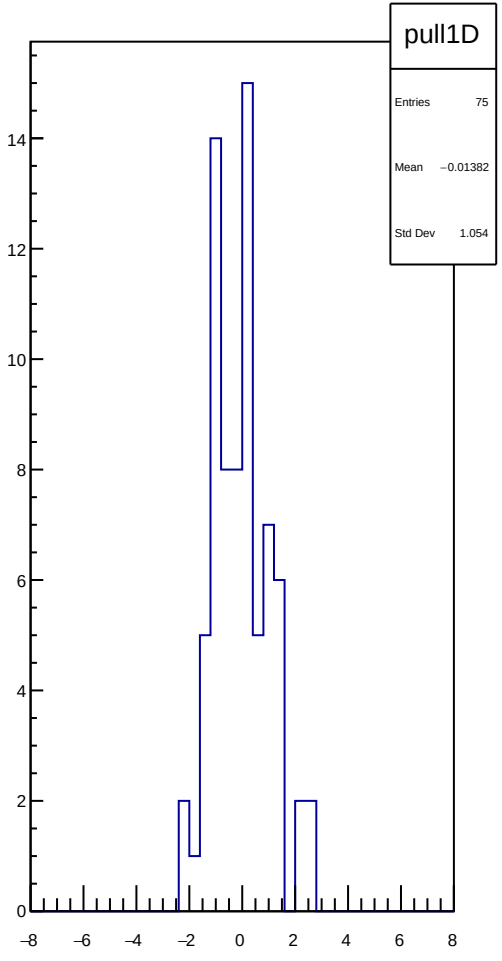

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 1471 / 74
p0 3398 ± 2.828
3700
3600
3500
3400
3300
3200
3100

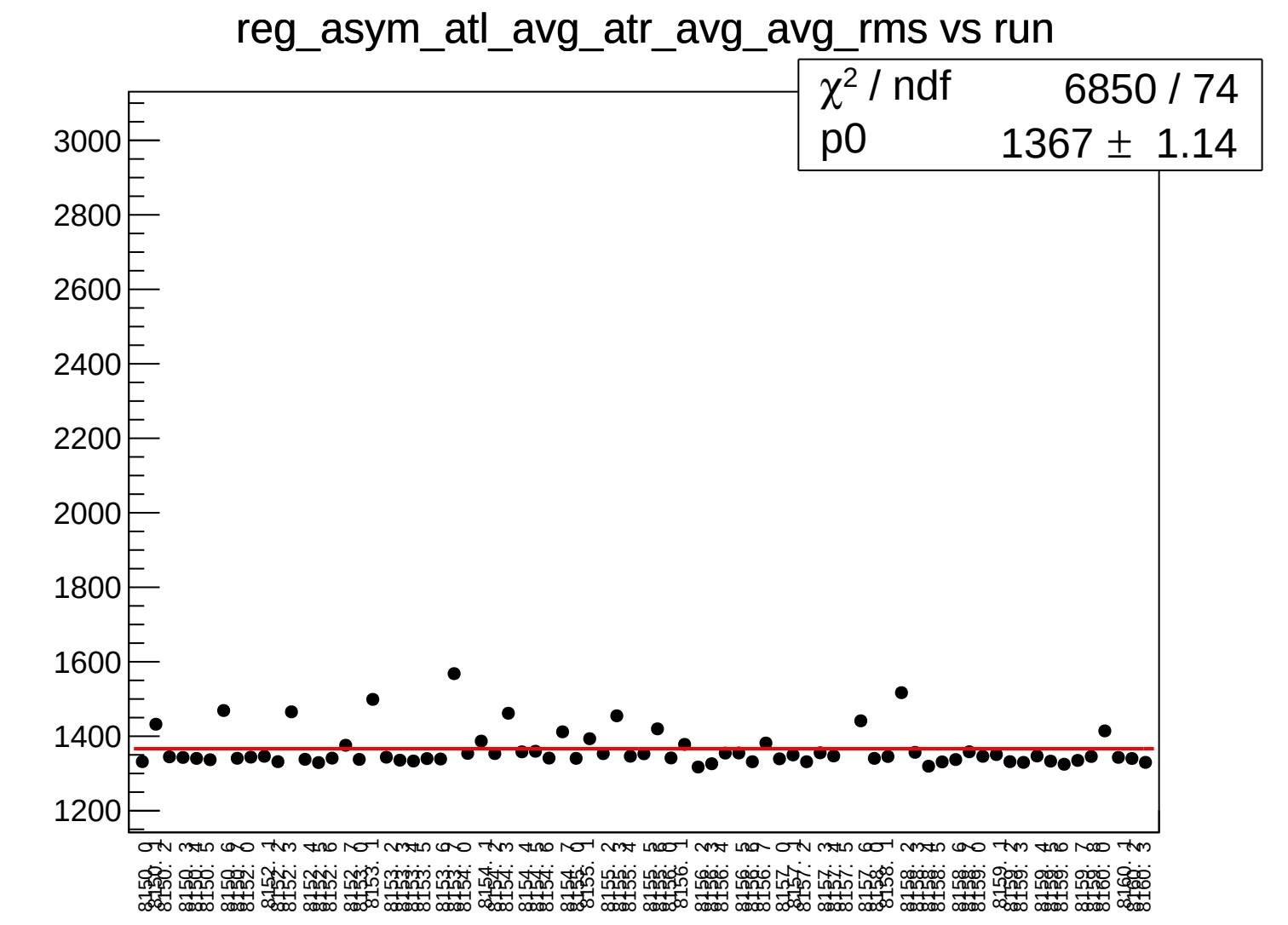

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 90.08 / 74
p0 −1.026e+04 ± 4539
100
50
0
−50
−100
−150
pull
Entries 75
Mean −189.1
Std Dev 250.6
2
1
0
−1
−2

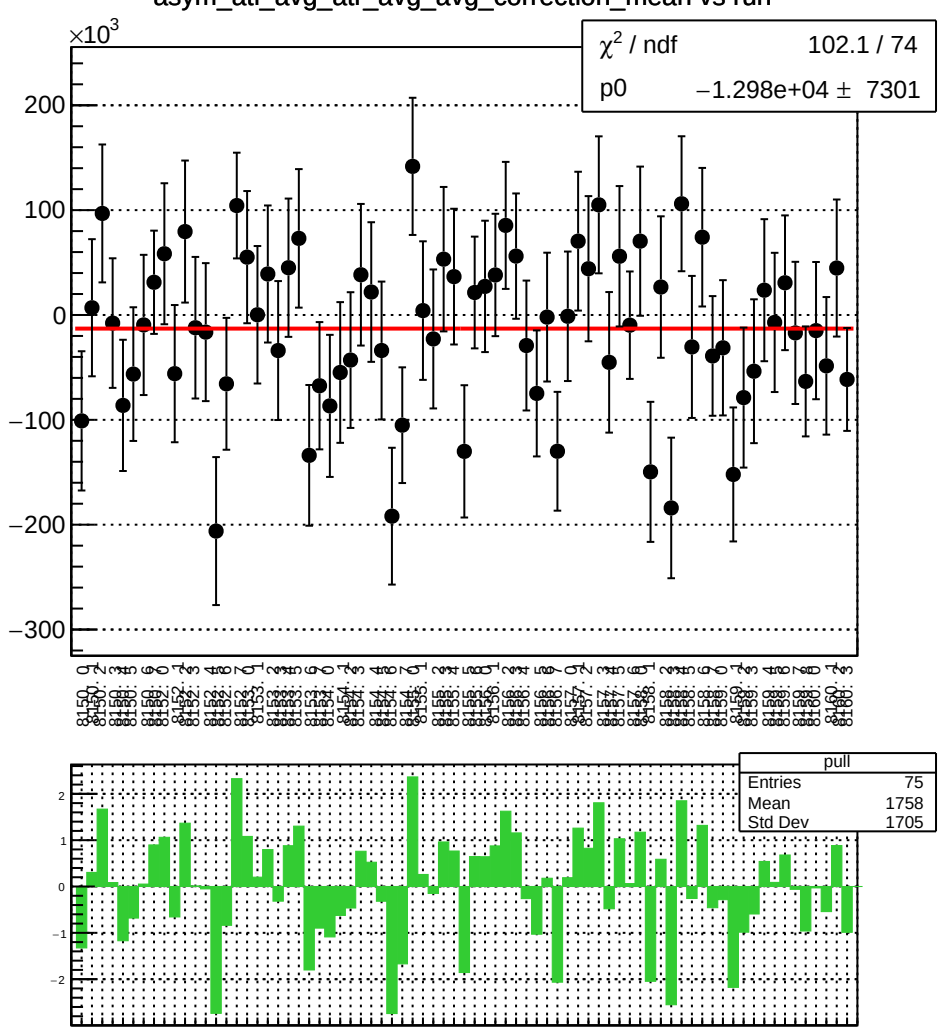

pull1D
Entries 75
Mean 0.003749
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

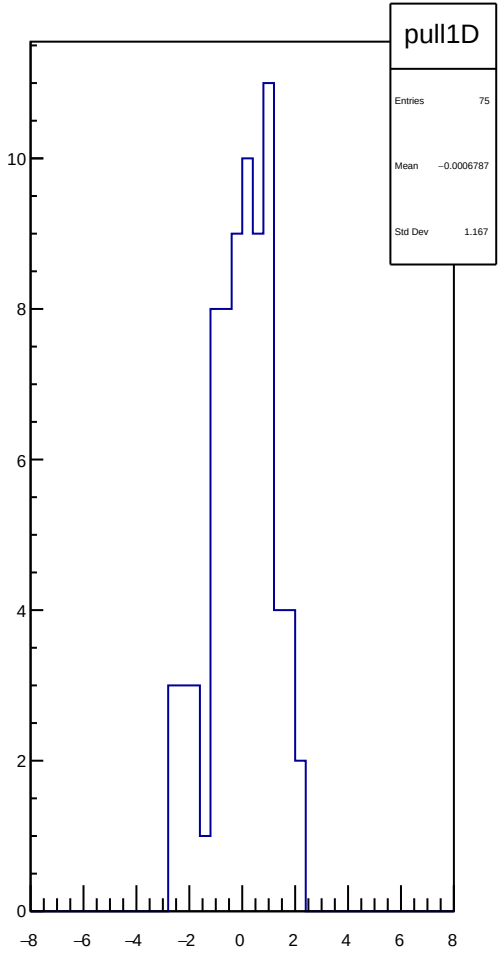

asym_atr1l2_dd_rms vs run
χ² / ndf 904.2 / 74
p0 3856 ± 3.209
4200
4100
4000
3900
3800
3700
3600

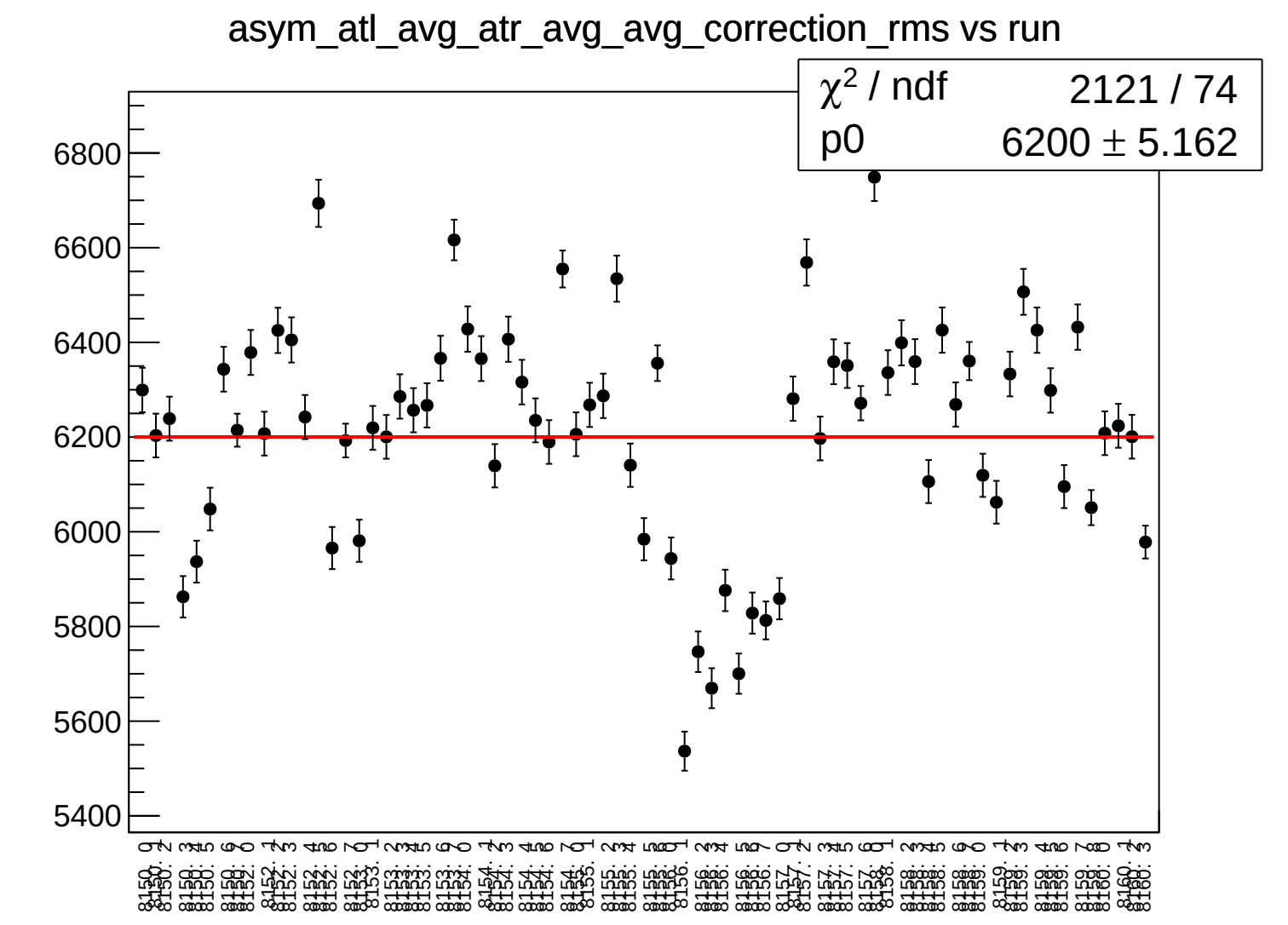

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 83.37 / 74
p0 −1733 ± 1612
pull
Entries 75
Mean −33.56
Std Dev 77.78

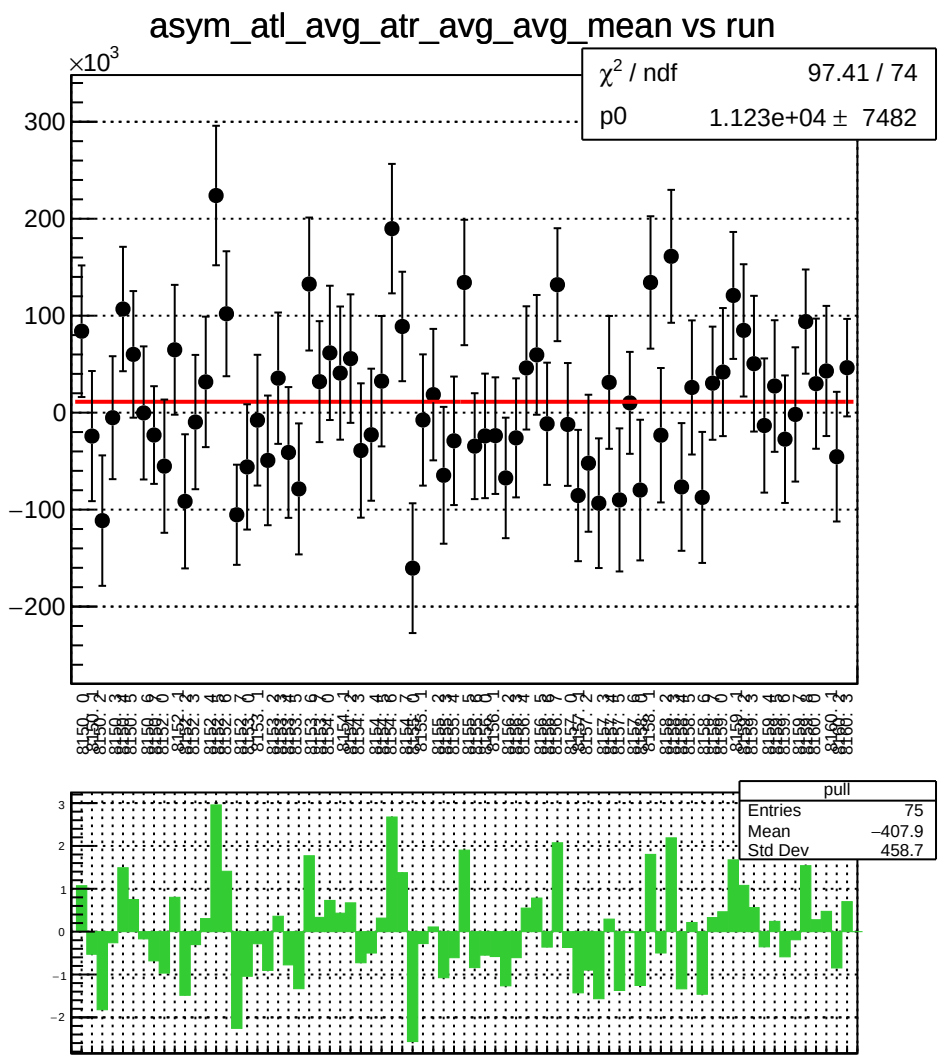

pull1D
Entries 75
Mean −0.01382
Std Dev 1.054

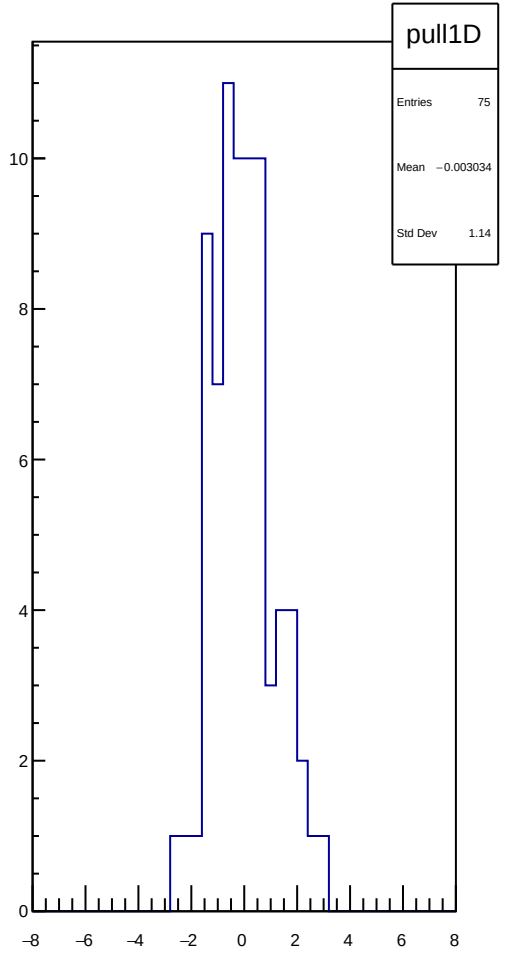

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 6850 / 74
p0 1367 ± 1.14
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

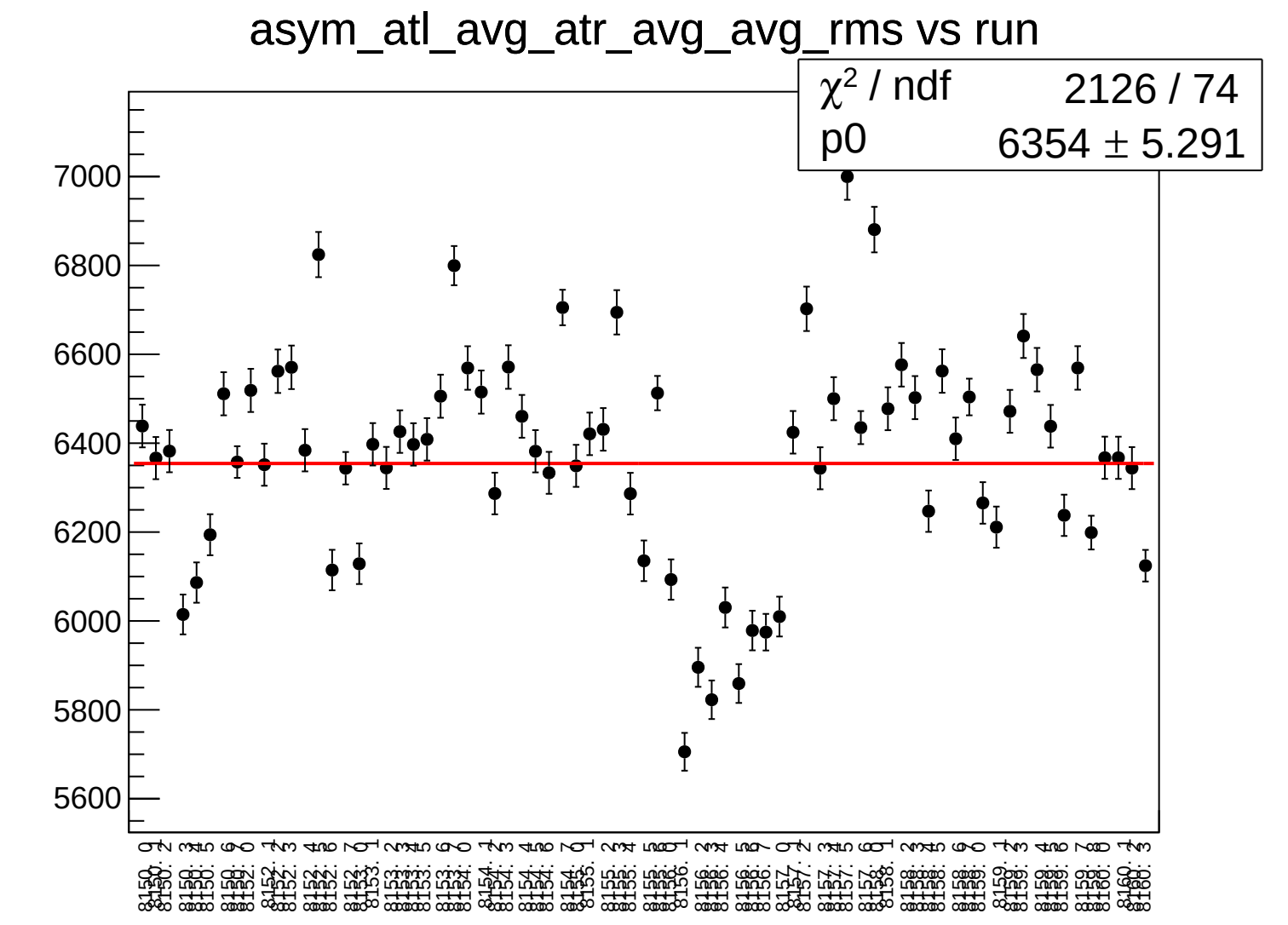

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 102.1 / 74
p0 −1.298e+04 ± 7301
200
100
0
−100
−200
−300
pull
Entries 75
Mean 1758
Std Dev 1705
2
1
0
−1
−2

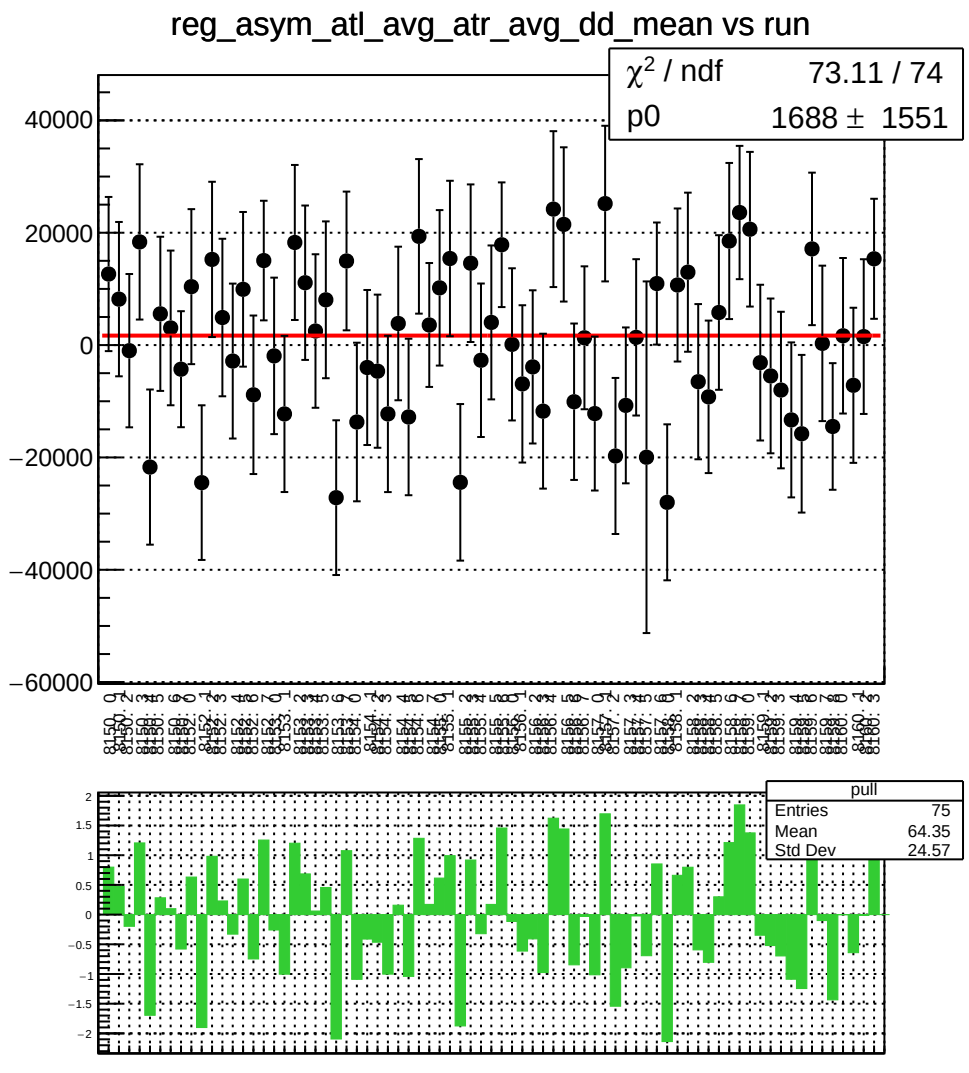

pull1D
Entries 75
Mean −0.0006787
Std Dev 1.167
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

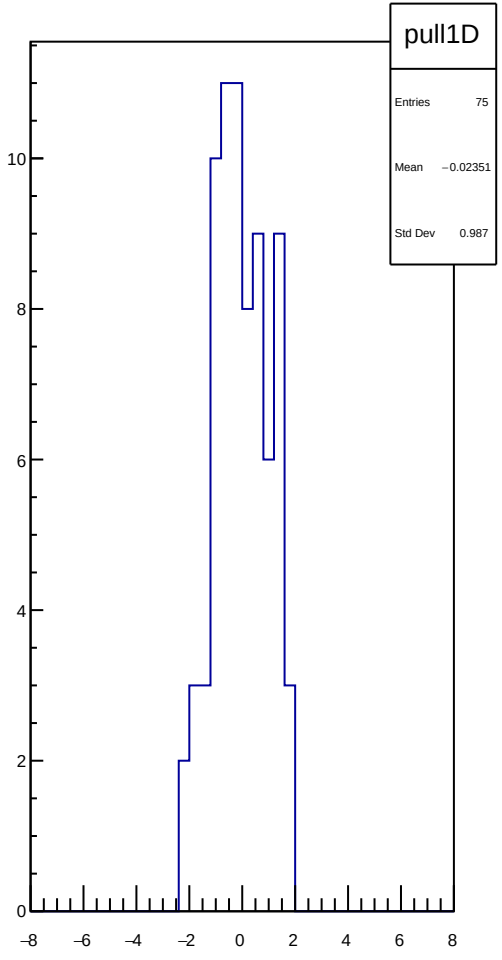

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 2121 / 74
p0 6200 ± 5.162
6800
6600
6400
6200
6000
5800
5600
5400

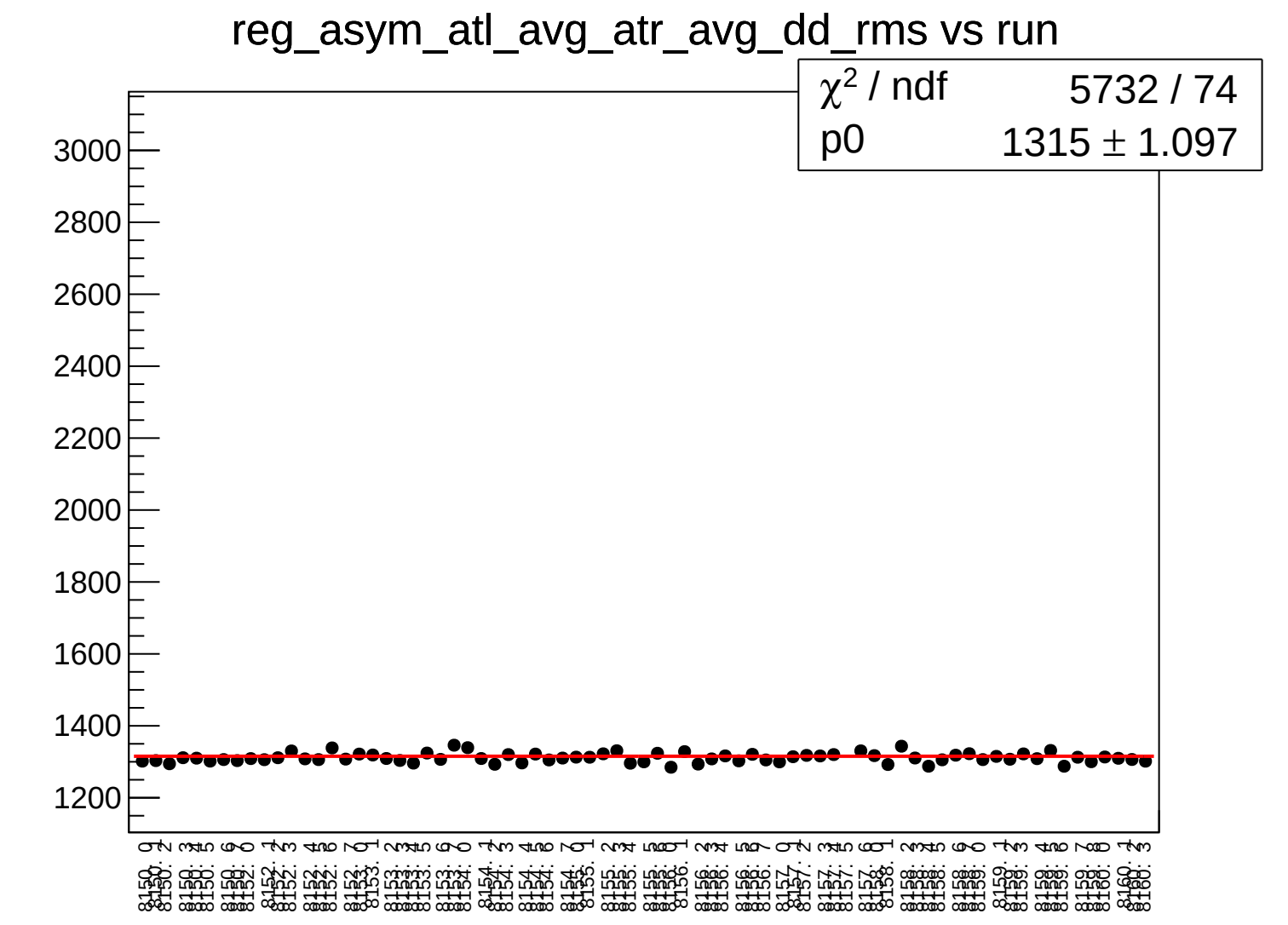

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 97.41 / 74
p0 1.123e+04 ± 7482
300
200
100
0
−100
−200
pull
Entries 75
Mean −407.9
Std Dev 458.7
3
2
1
0
−1
−2

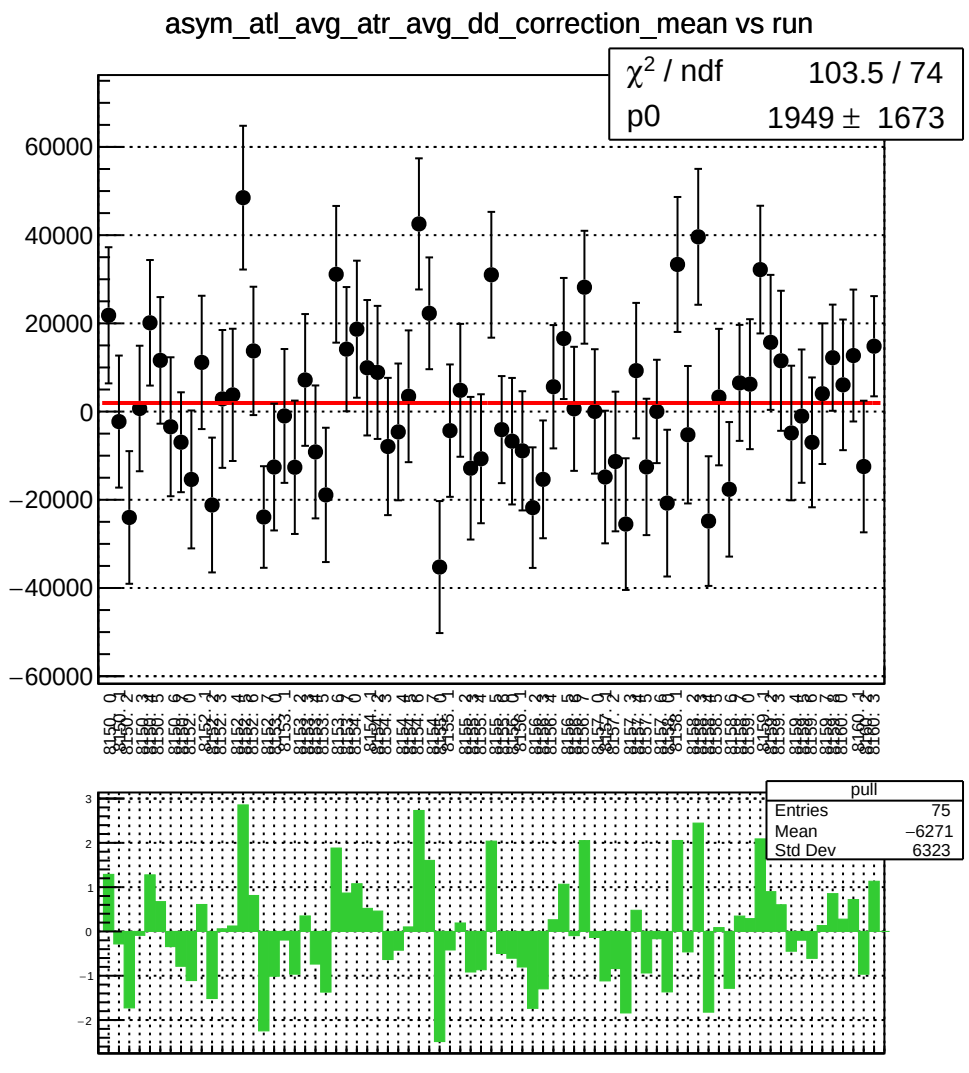

pull1D
Entries 75
Mean −0.003034
Std Dev 1.14
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

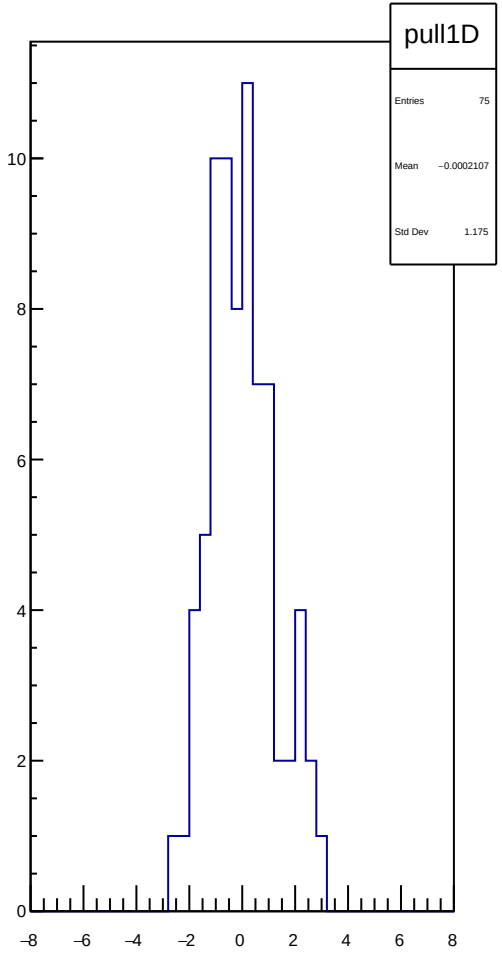

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2126 / 74
p0 6354 ± 5.291
7000
6800
6600
6400
6200
6000
5800
5600

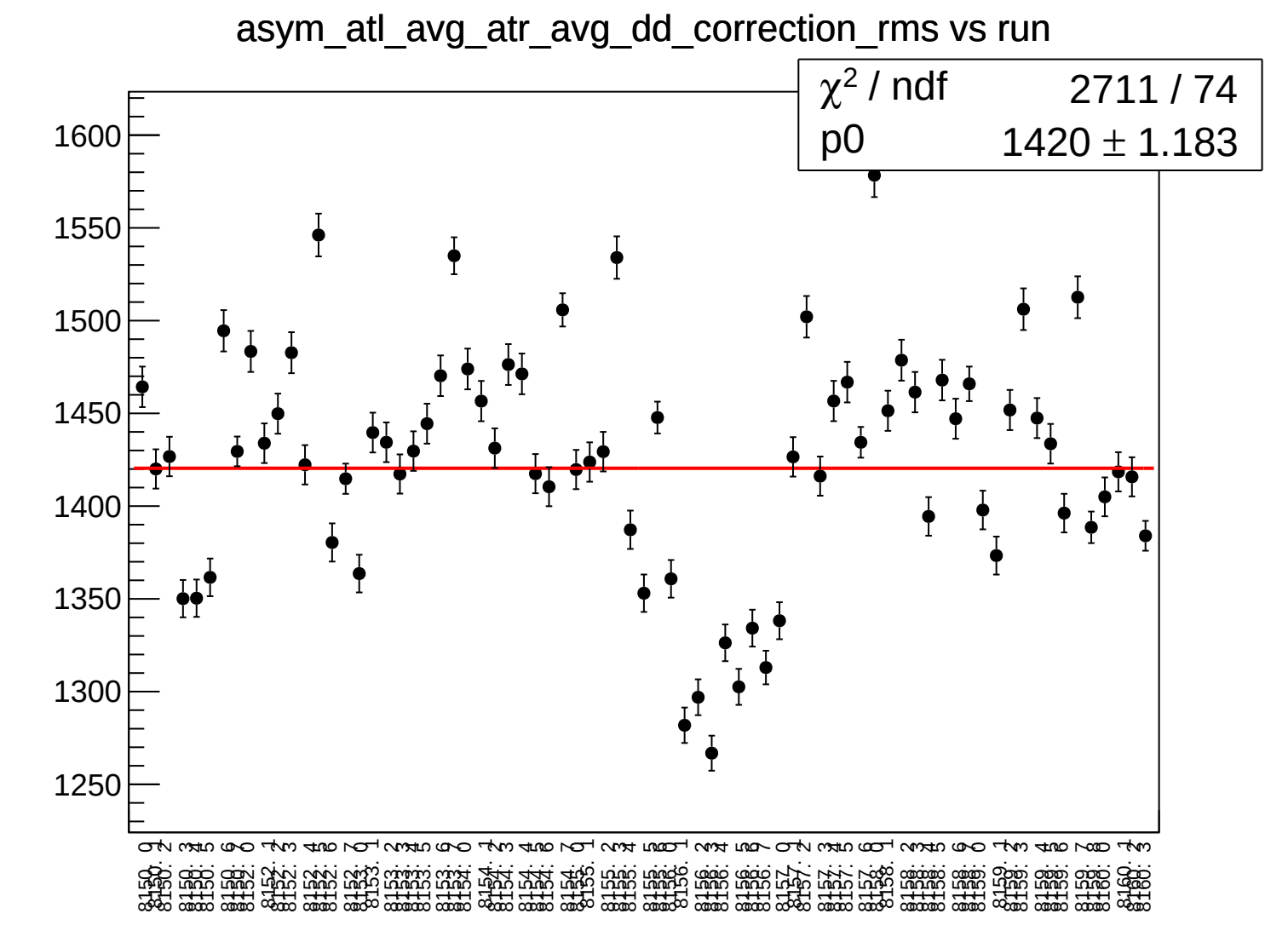

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 73.11 / 74
p0 1688 ± 1551
pull
Entries 75
Mean 64.35
Std Dev 24.57

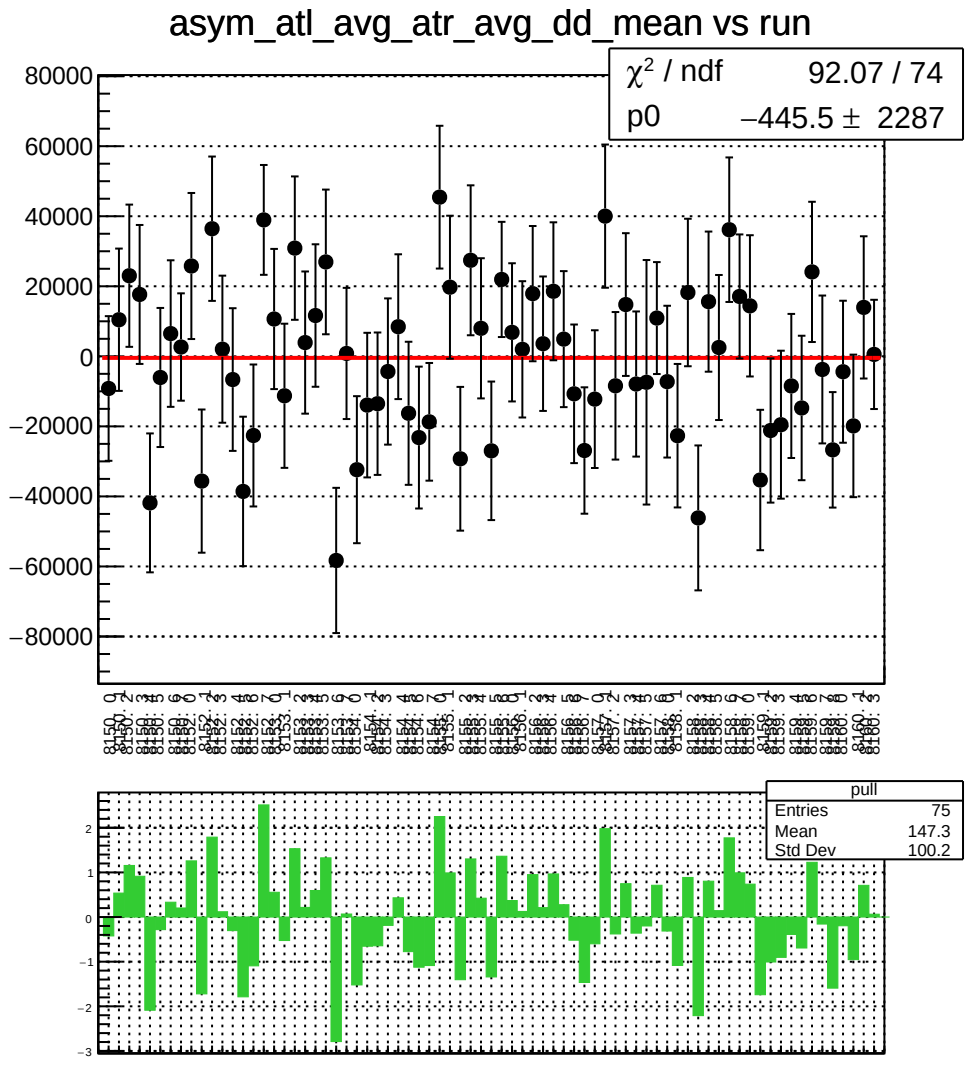

pull1D
Entries 75
Mean −0.02351
Std Dev 0.987

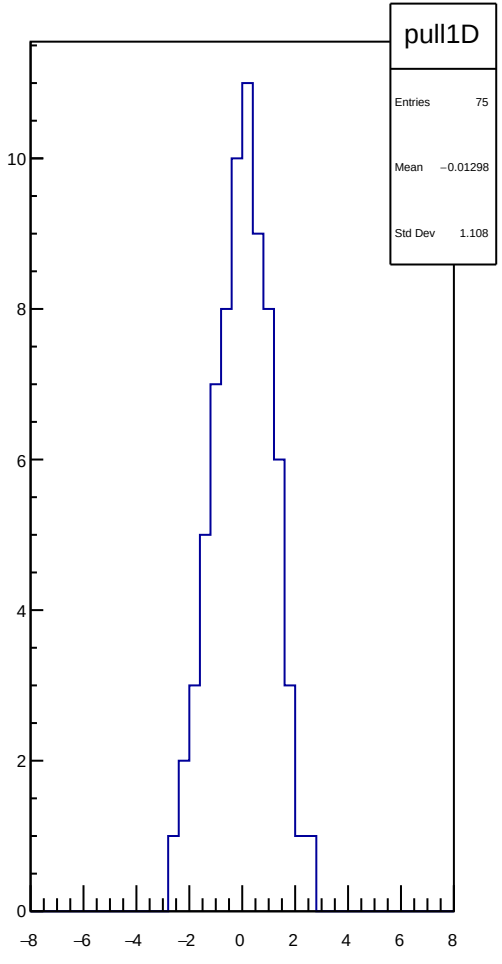

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 5732 / 74
p0 1315 ± 1.097
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

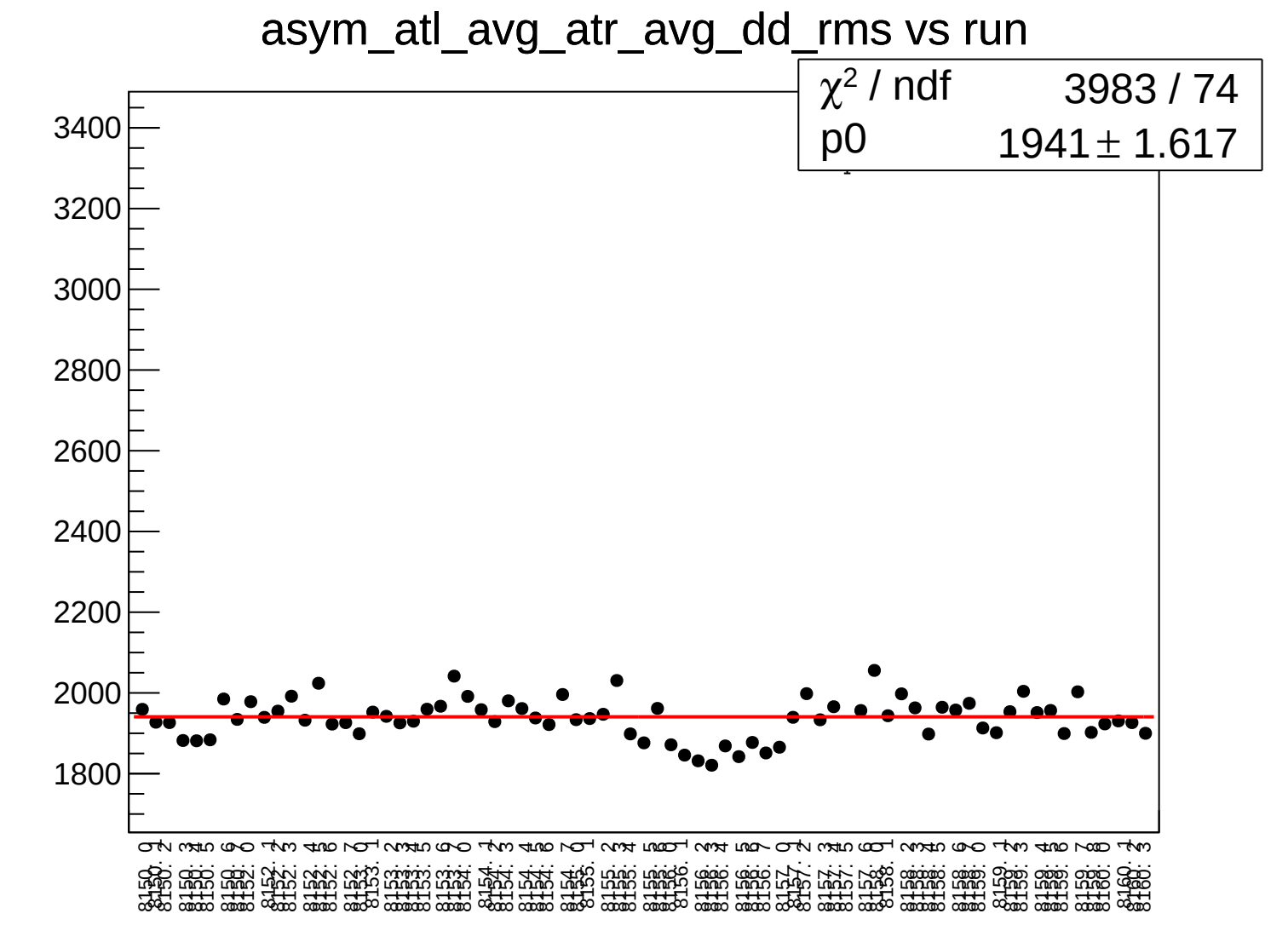

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 103.5 / 74
p0 1949 ± 1673
pull
Entries 75
Mean −6271
Std Dev 6323

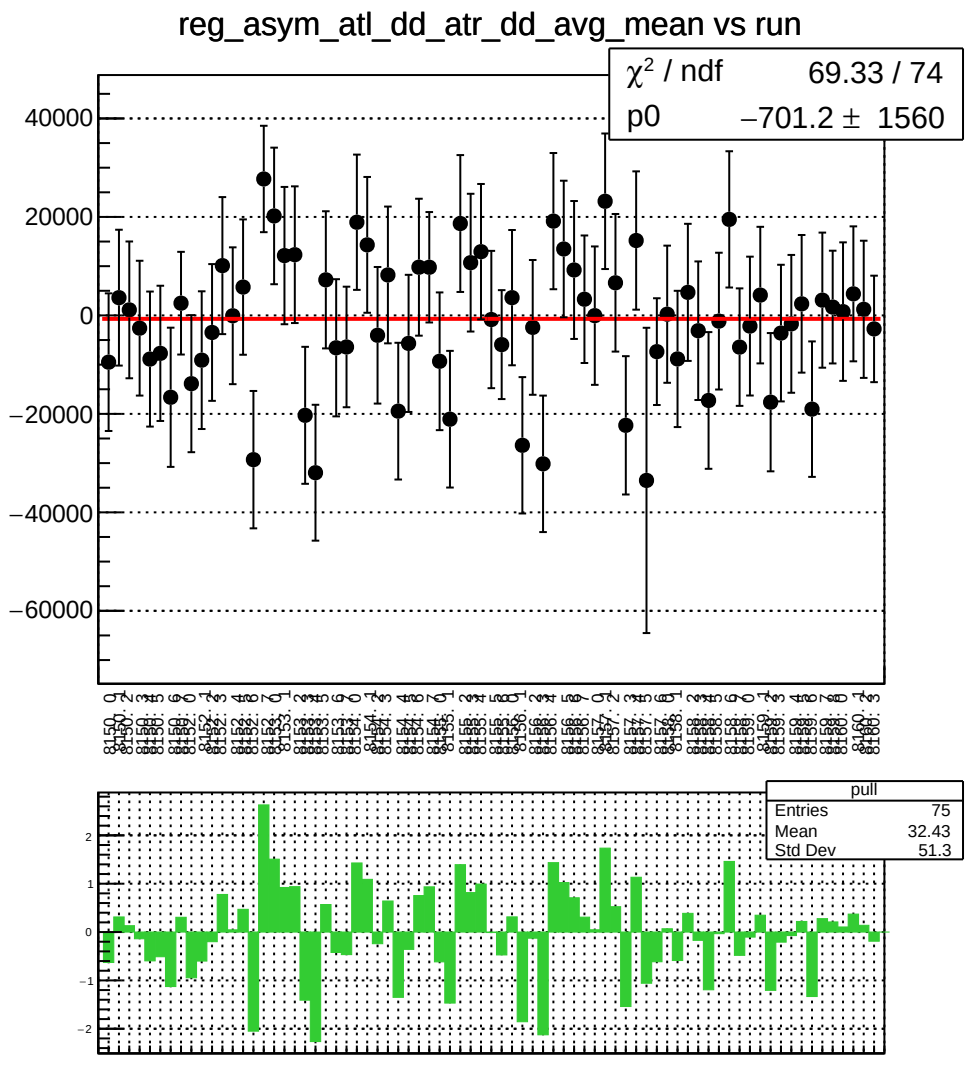

pull1D
Entries 75
Mean −0.0002107
Std Dev 1.175

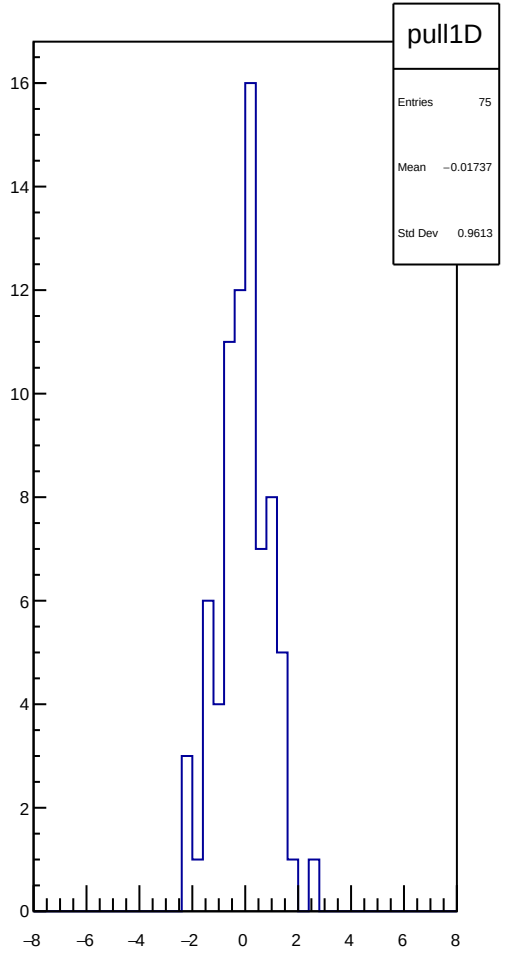

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 2711 / 74
p0 1420 ± 1.183
1600
1550
1500
1450
1400
1350
1300
1250

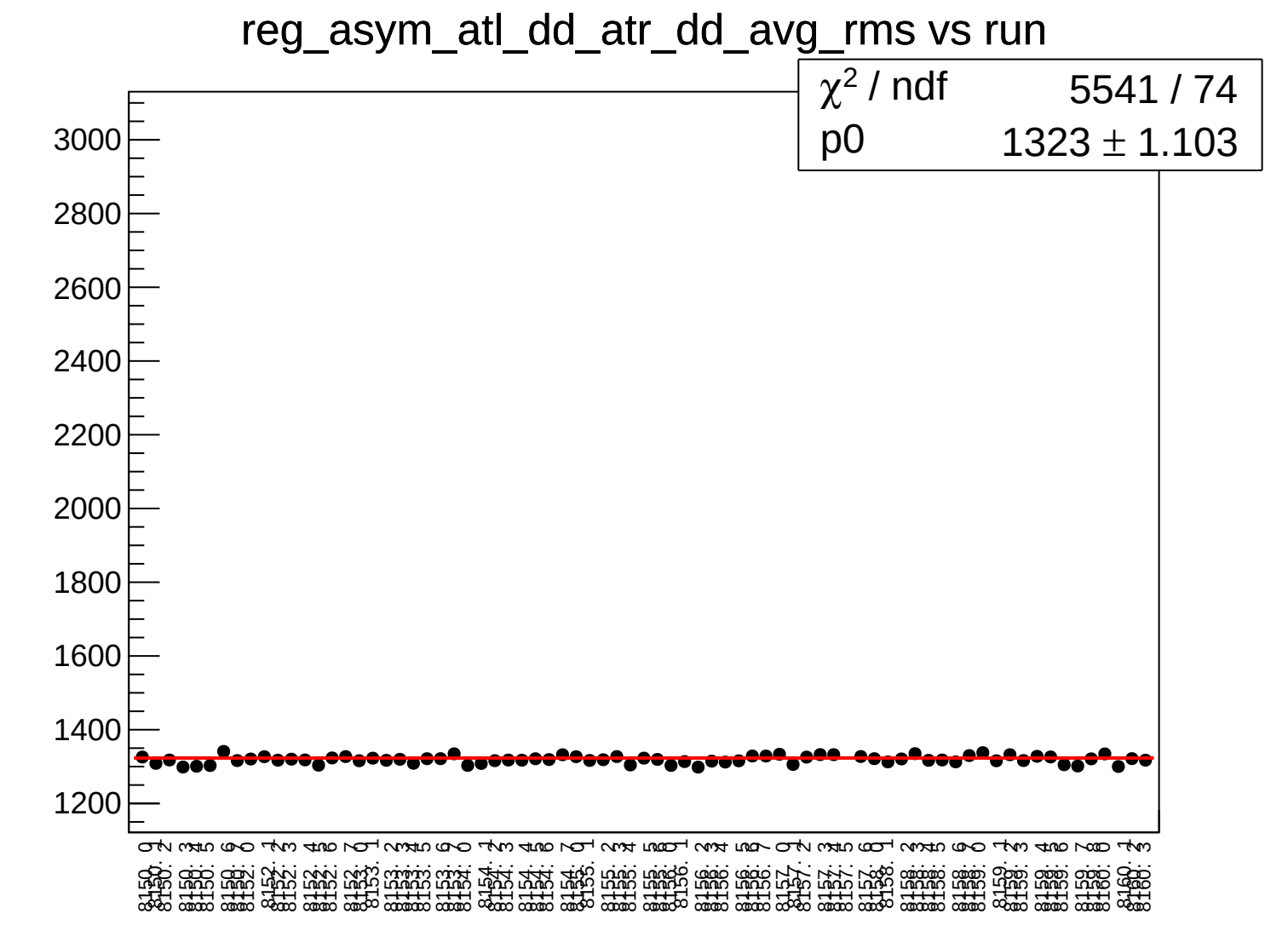

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 92.07 / 74
p0 −445.5 ± 2287
pull
Entries 75
Mean 147.3
Std Dev 100.2

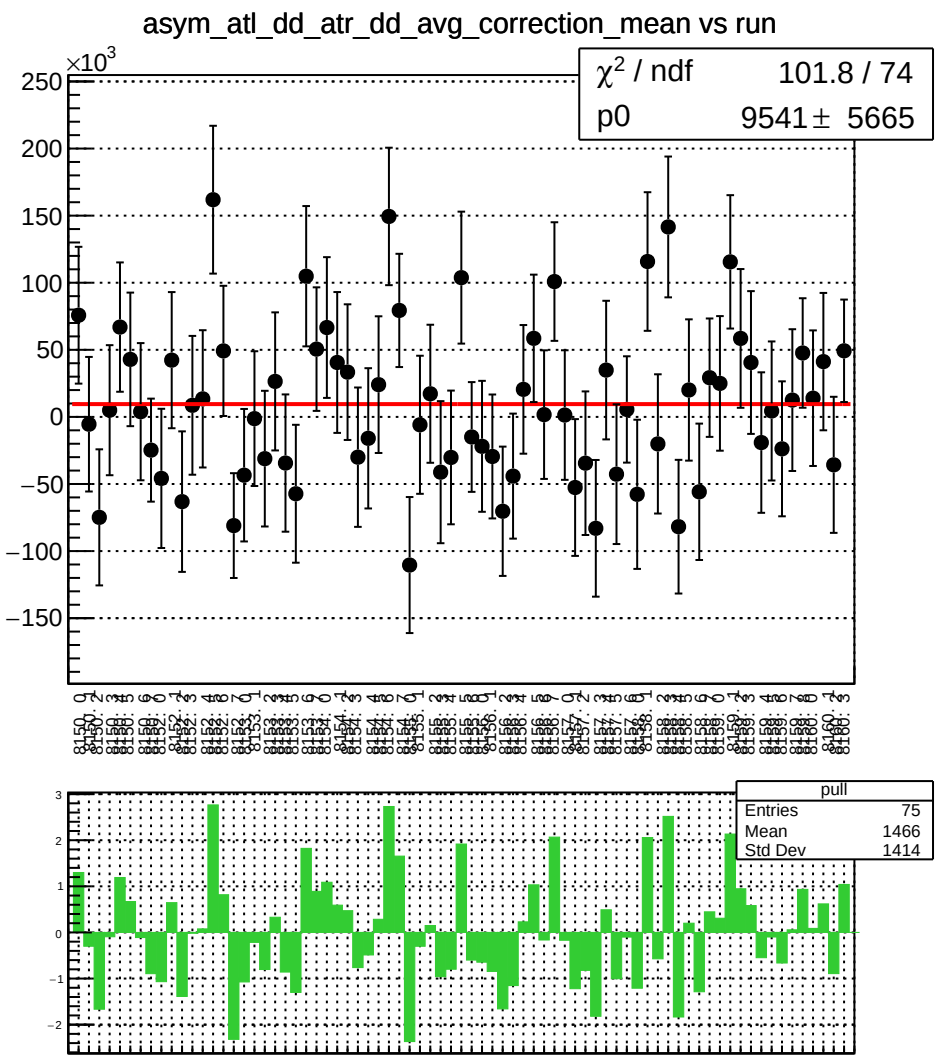

pull1D
Entries 75
Mean −0.01298
Std Dev 1.108

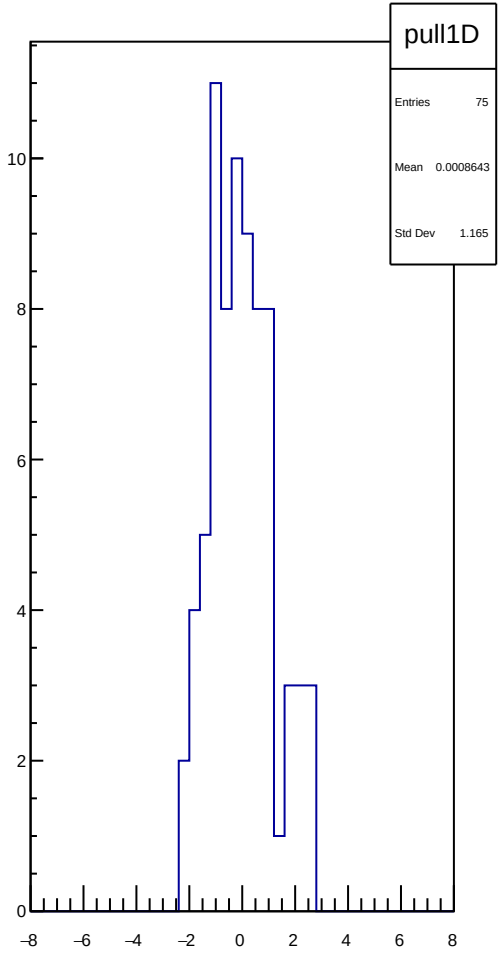

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 3983 / 74
p0 1941 ± 1.617
3400
3200
3000
2800
2600
2400
2200
2000
1800

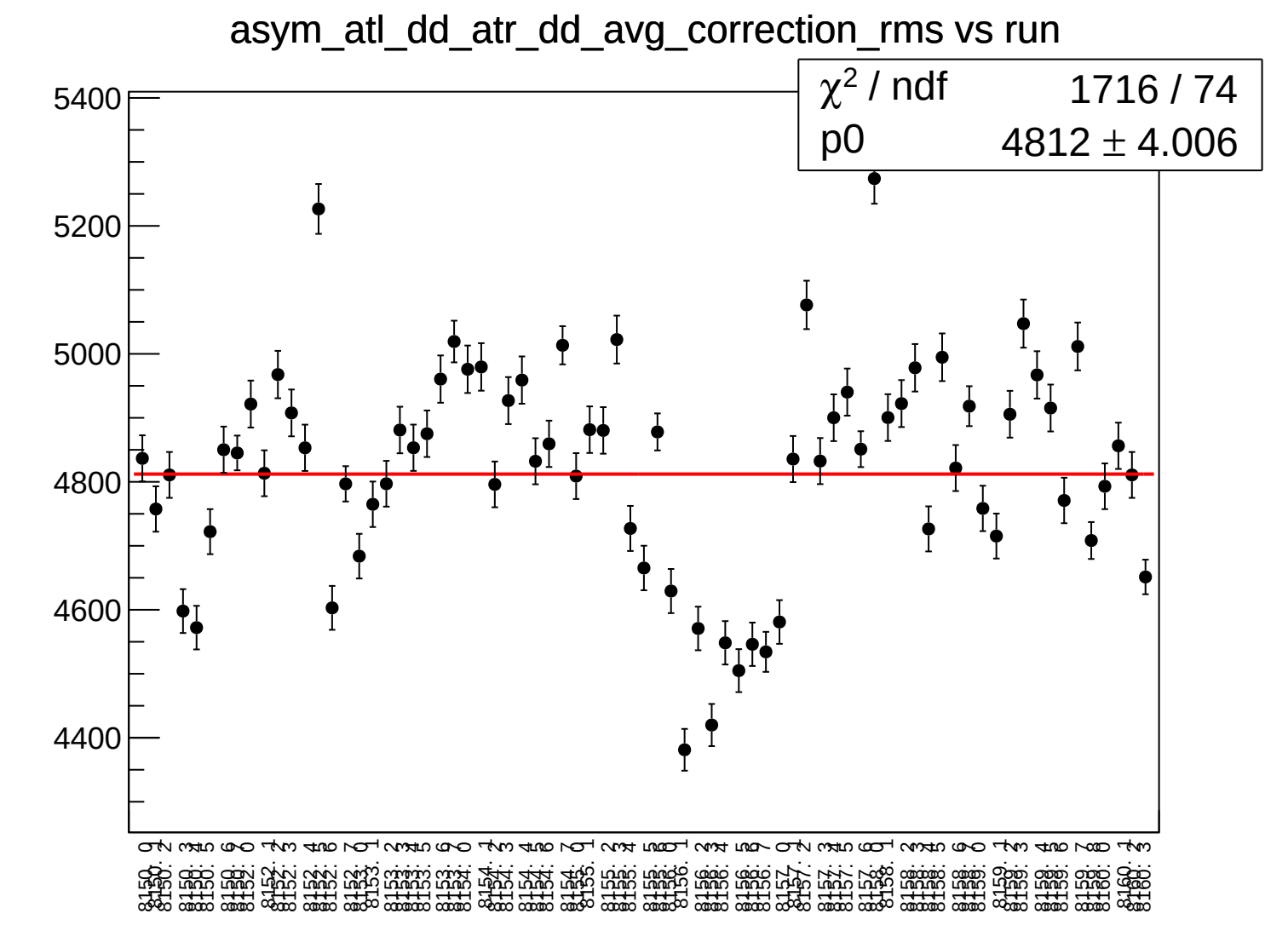

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 69.33 / 74
p0 −701.2 ± 1560
40000
20000
0
−20000
−40000
−60000
pull
Entries 75
Mean 32.43
Std Dev 51.3
2
1
0
−1
−2

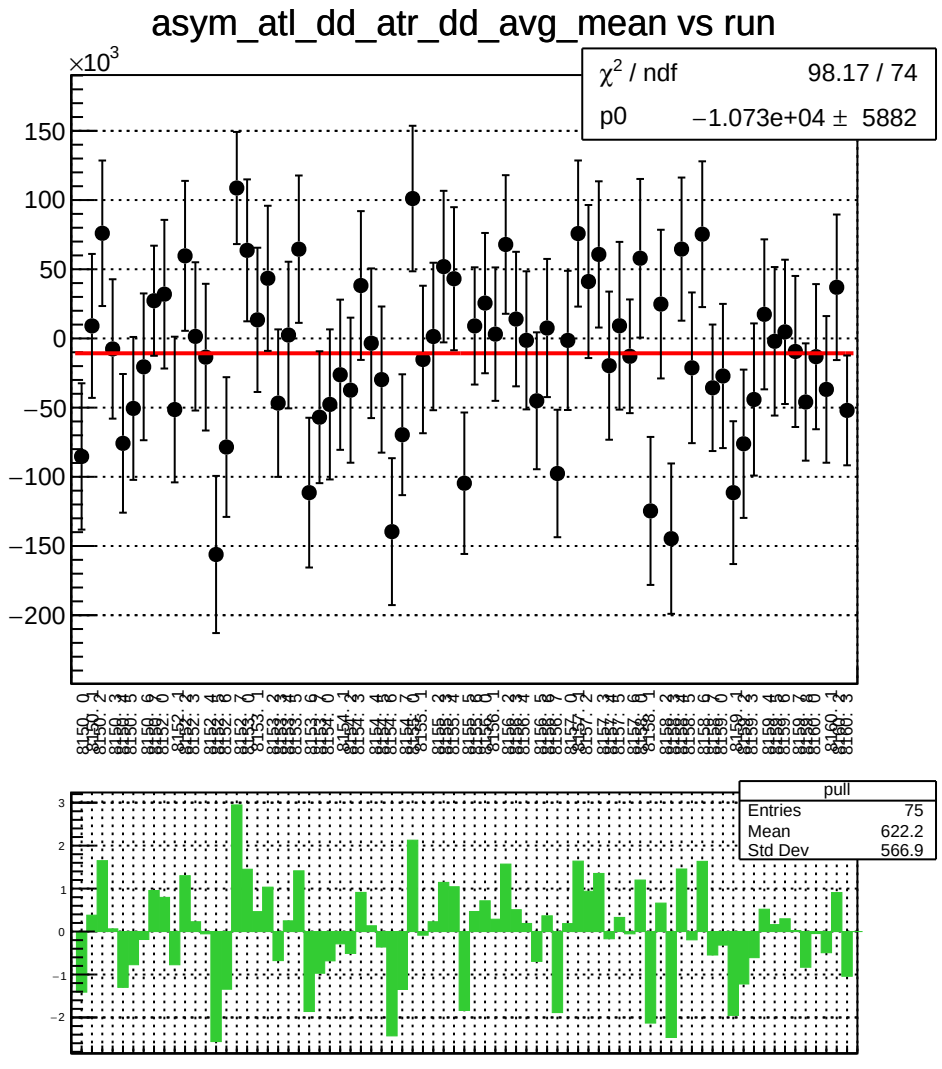

pull1D
Entries 75
Mean −0.01737
Std Dev 0.9613
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

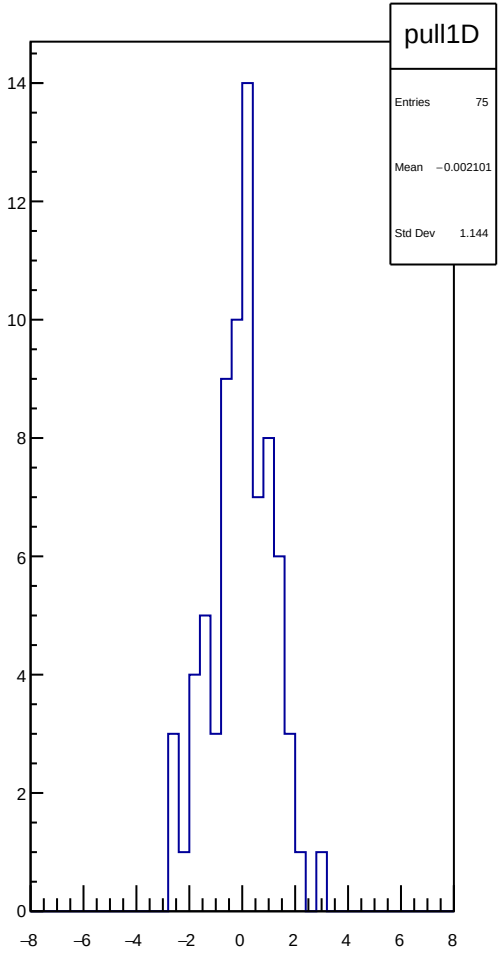

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 5541 / 74
p0 1323 ± 1.103
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

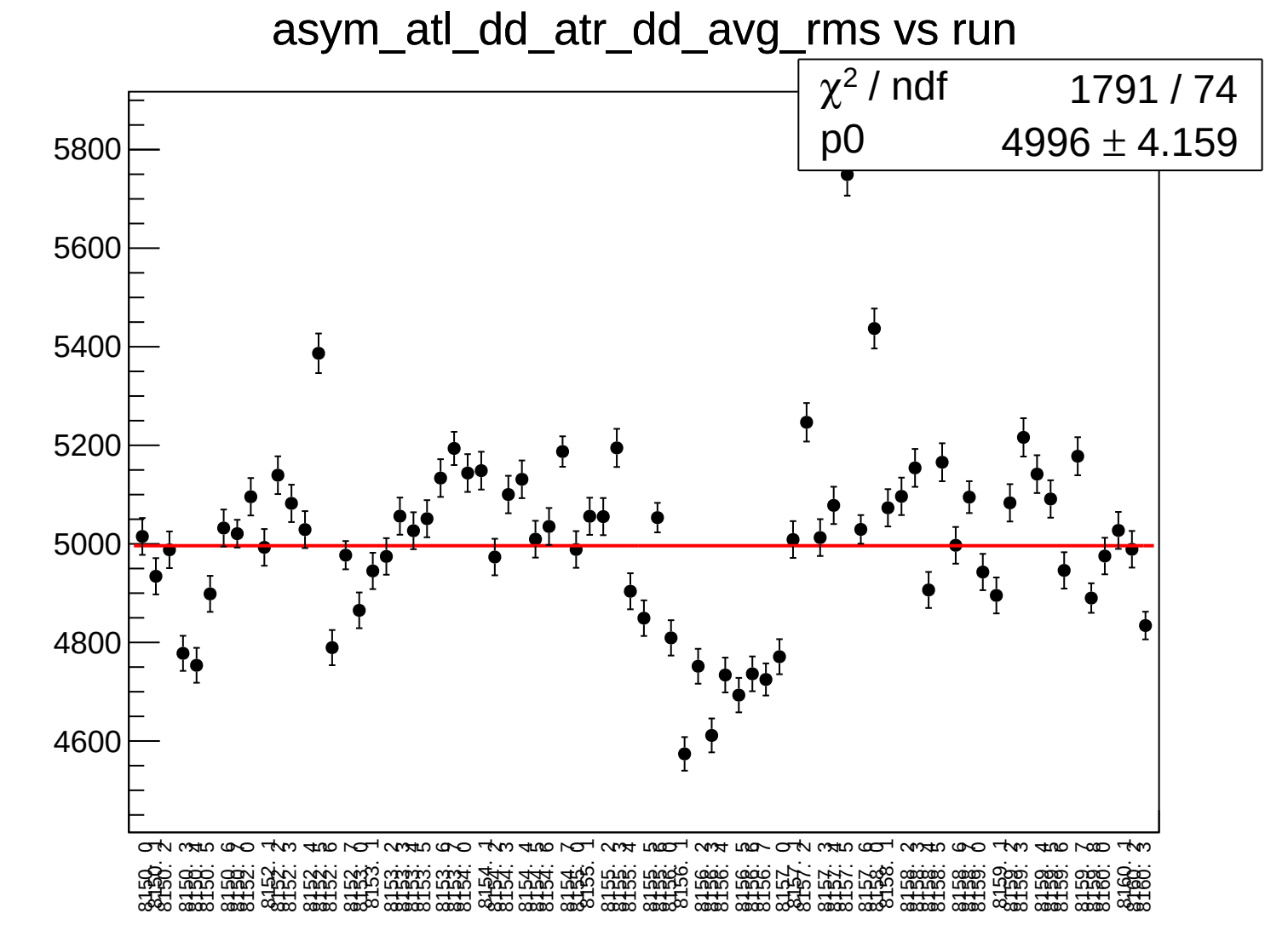

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 101.8 / 74
p0 9541 ± 5665
pull
Entries 75
Mean 1466
Std Dev 1414

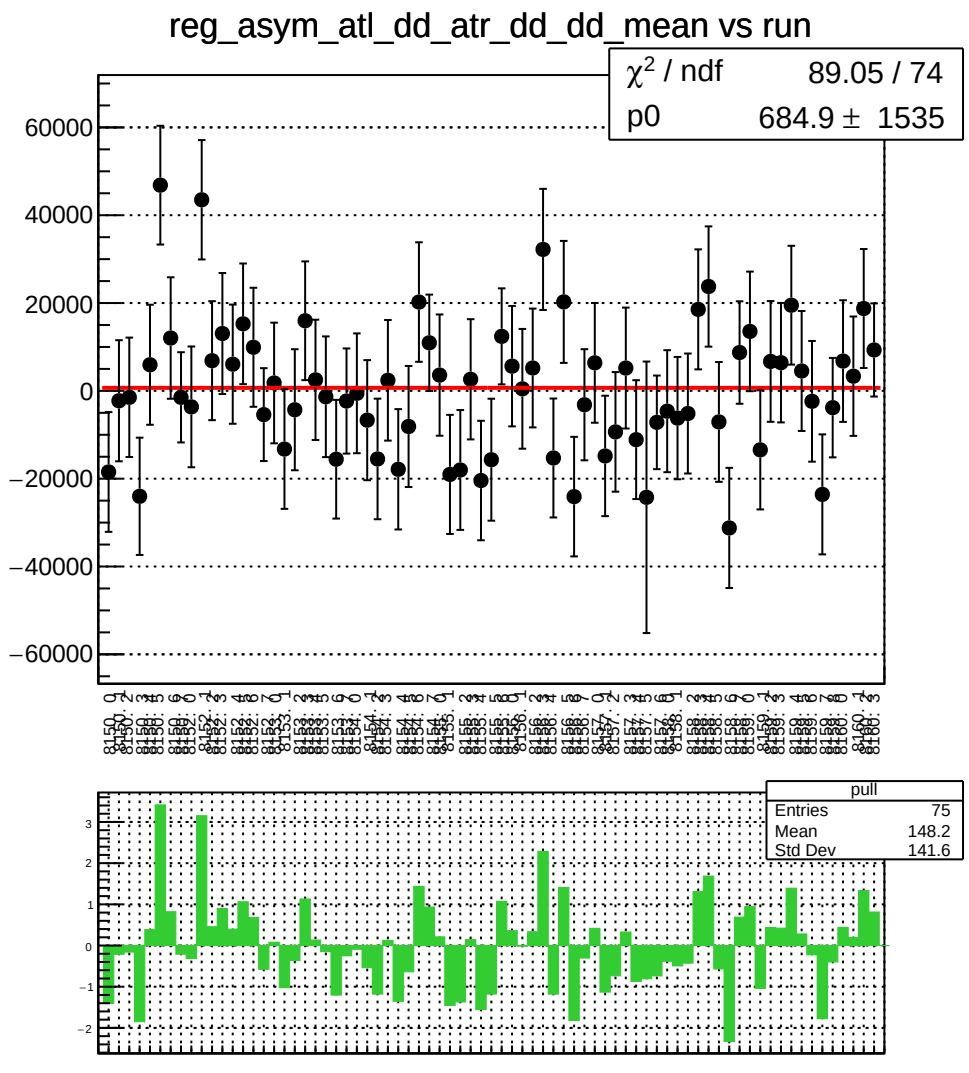

pull1D
Entries 75
Mean 0.0008643
Std Dev 1.165

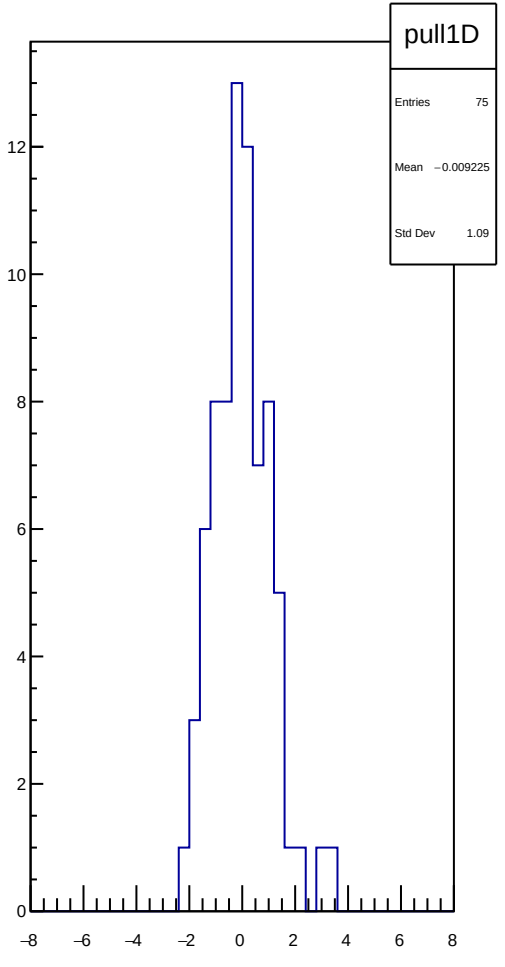

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 1716 / 74
p0 4812 ± 4.006
5400
5200
5000
4800
4600
4400

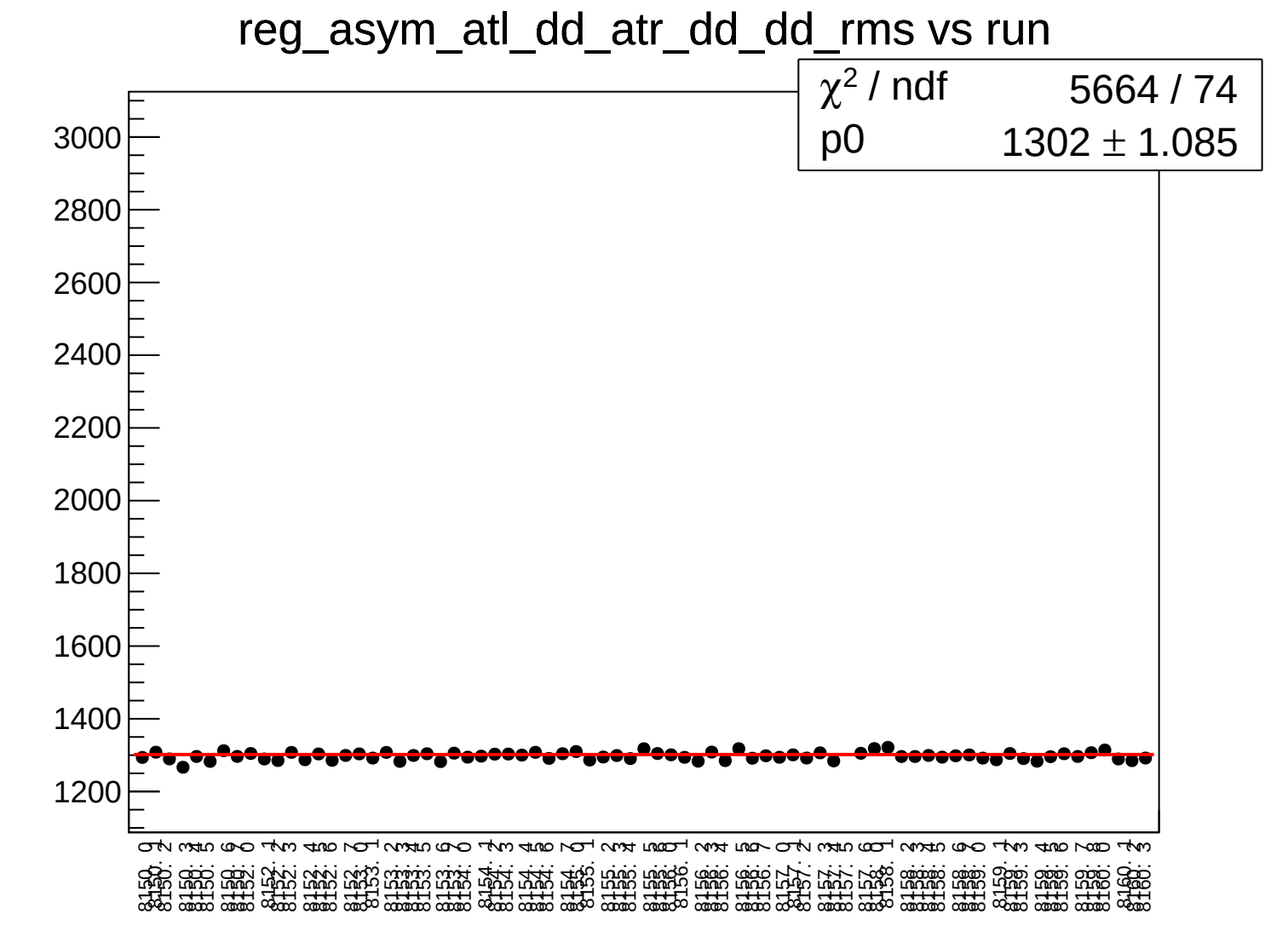

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 98.17 / 74
p0 −1.073e+04 ± 5882
pull
Entries 75
Mean 622.2
Std Dev 566.9

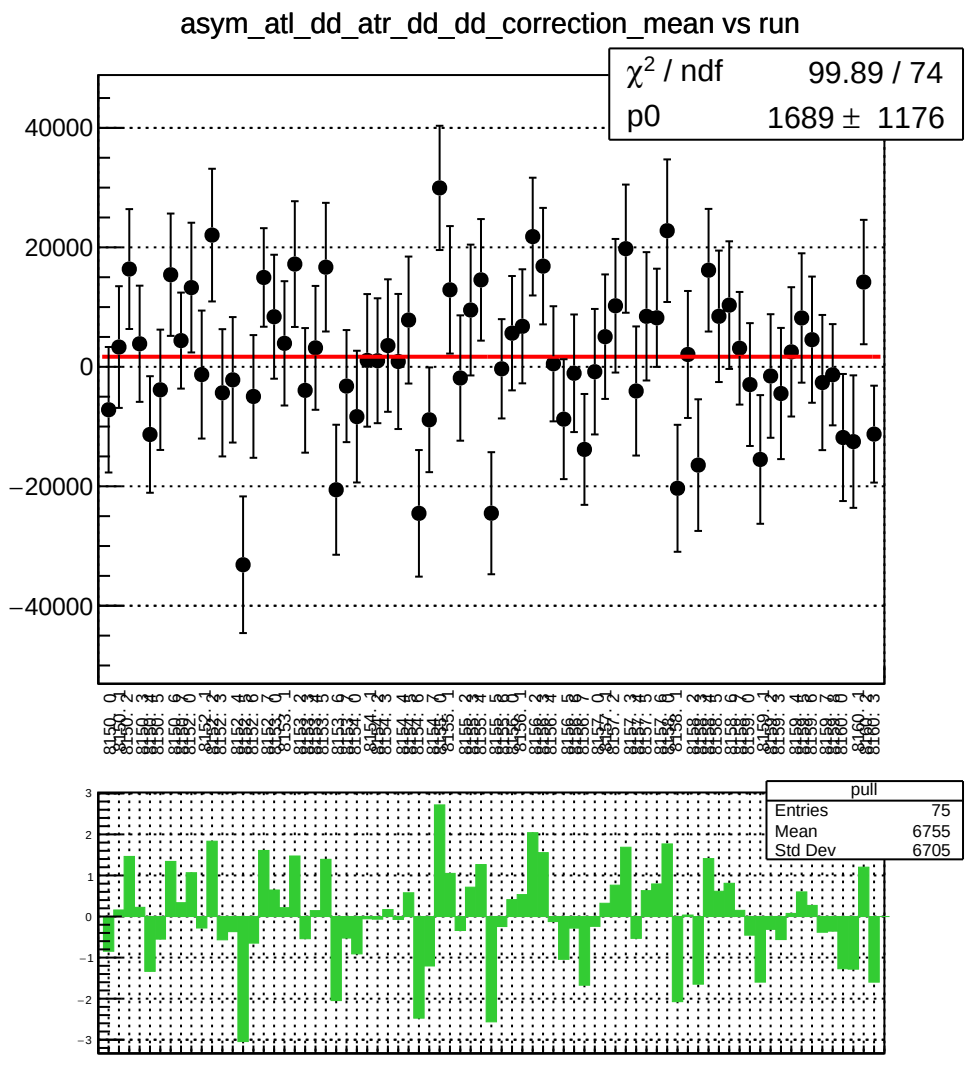

pull1D
Entries 75
Mean −0.002101
Std Dev 1.144

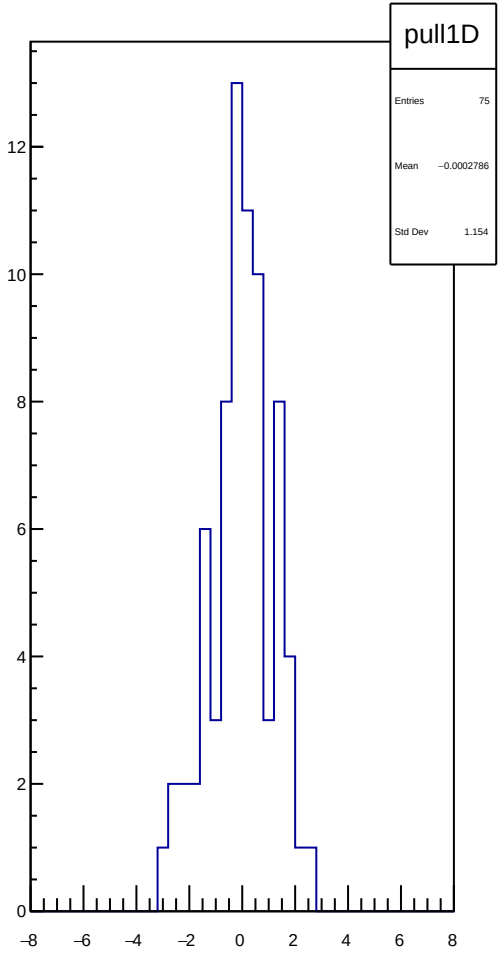

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1791 / 74
p0 4996 ± 4.159
5800
5600
5400
5200
5000
4800
4600

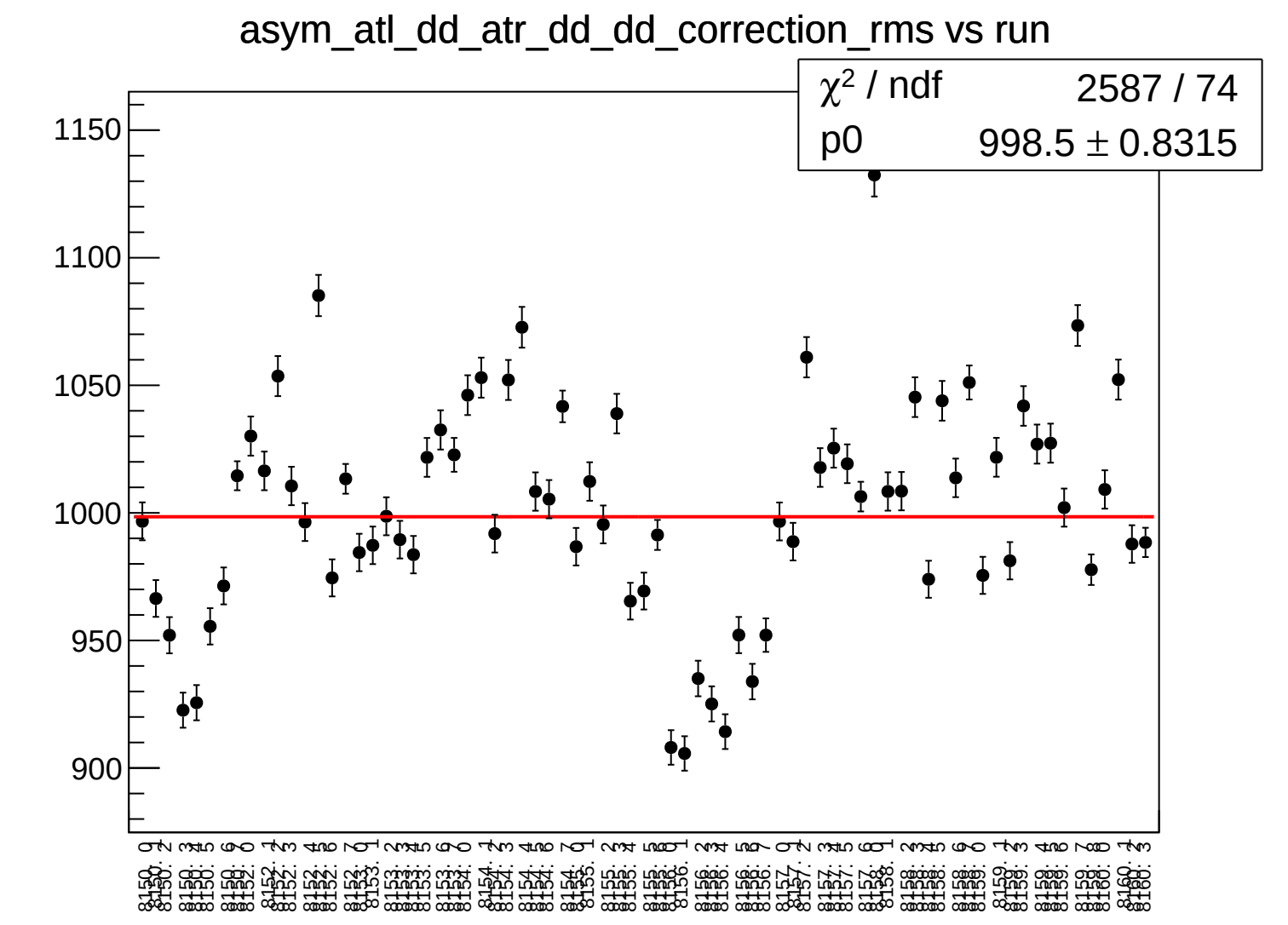

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.05 / 74
p0 684.9 ± 1535
pull
Entries 75
Mean 148.2
Std Dev 141.6

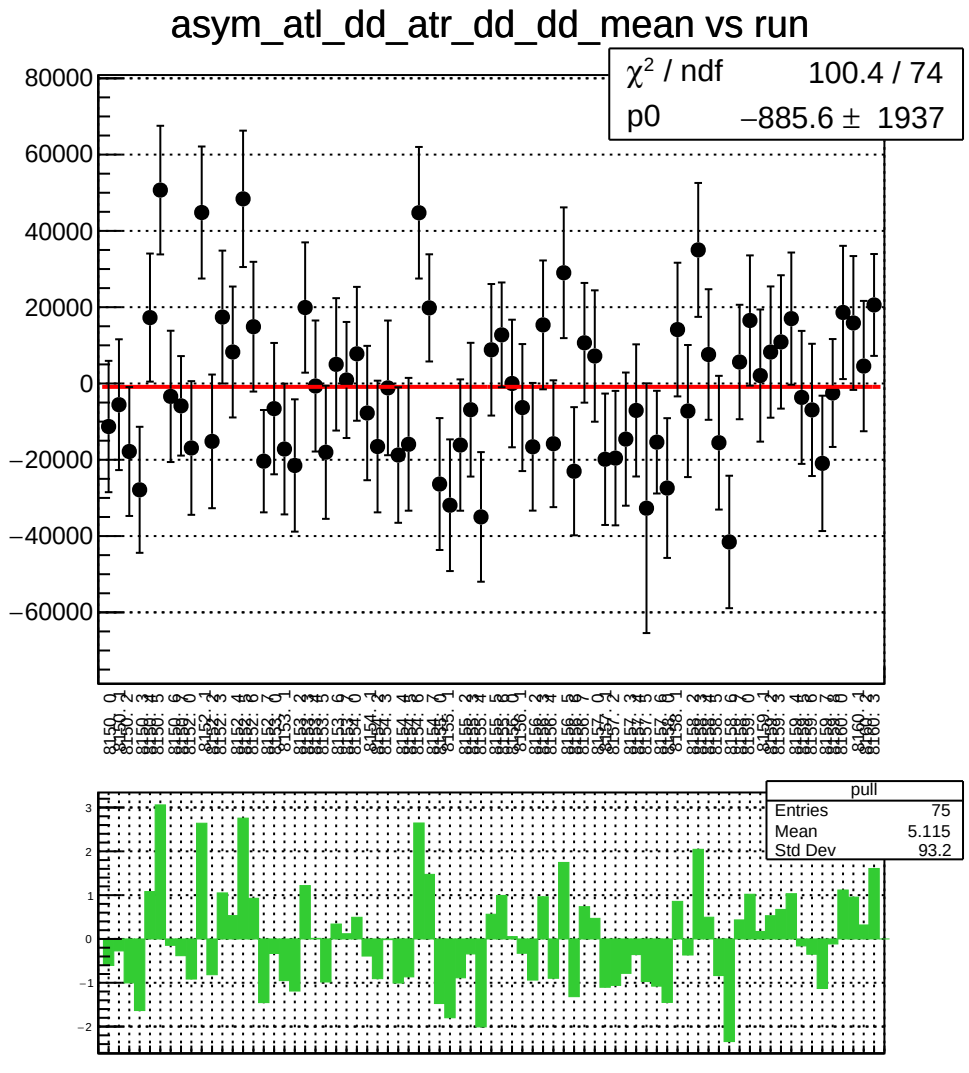

pull1D
Entries 75
Mean −0.009225
Std Dev 1.09

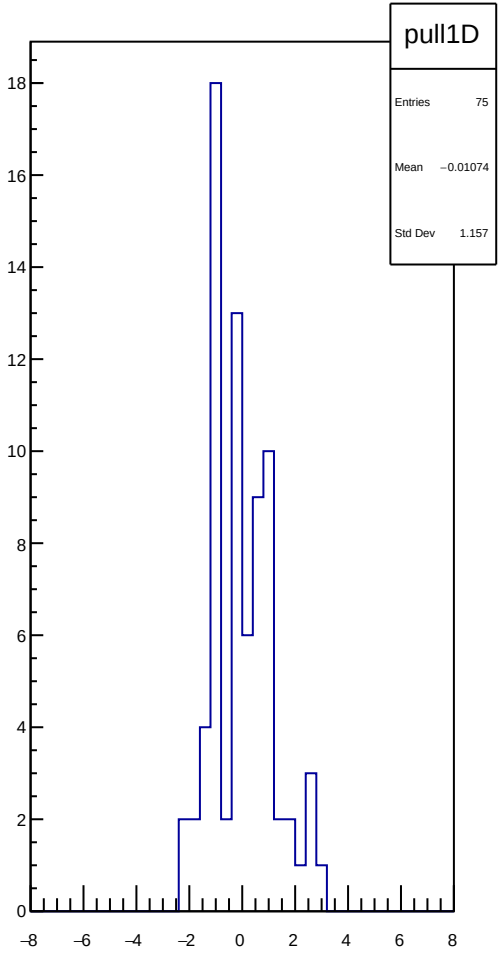

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 5664 / 74
p0 1302 ± 1.085
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

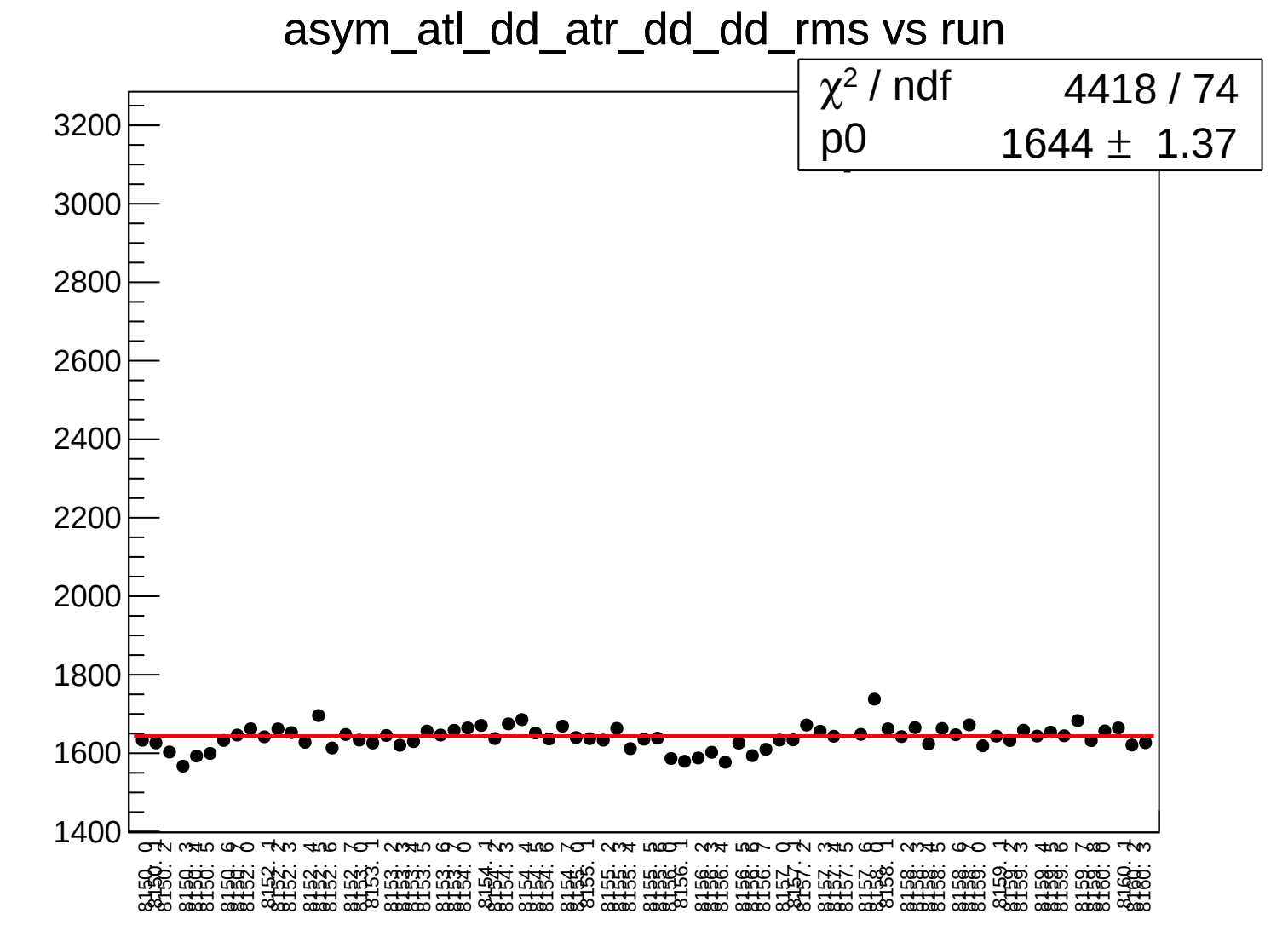

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 99.89 / 74
p0 1689 ± 1176
40000
20000
0
−20000
−40000
pull
Entries 75
Mean 6755
Std Dev 6705
3
2
1
0
−1
−2
−3

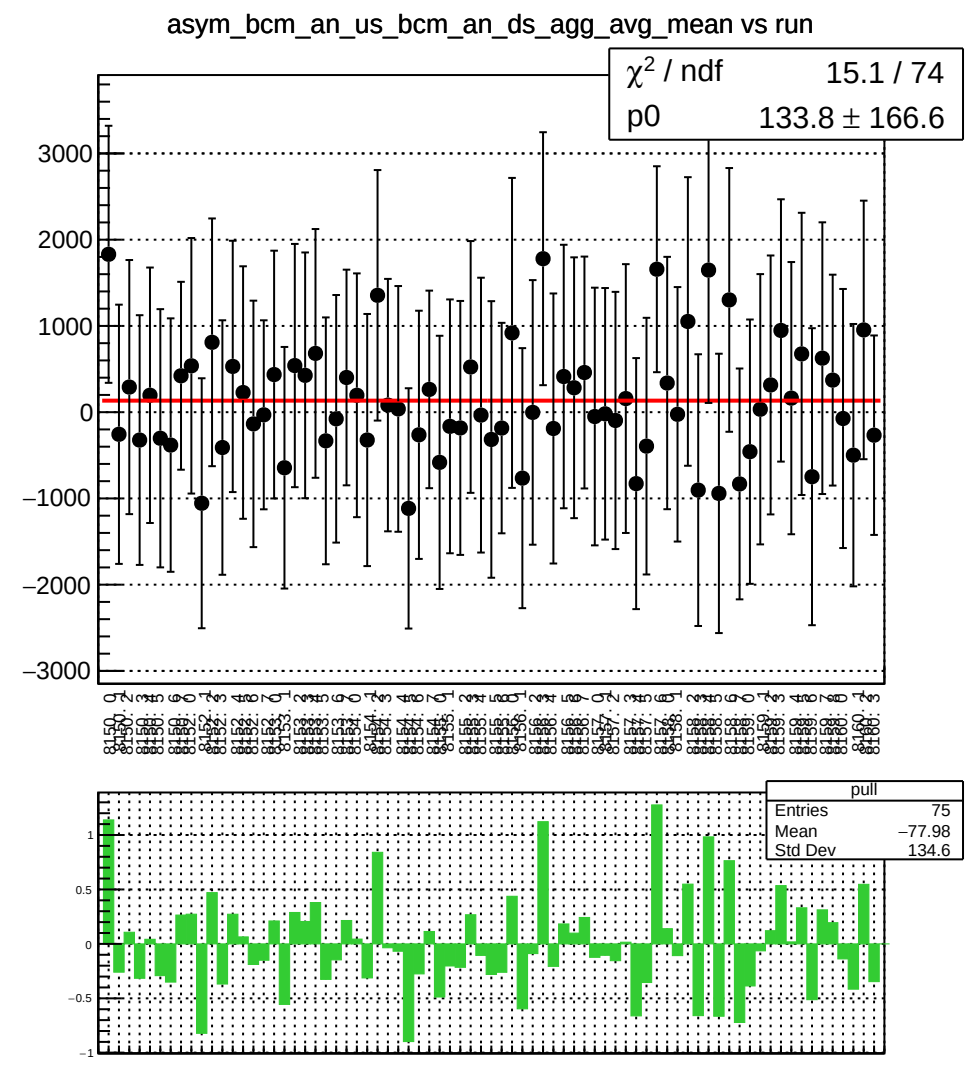

pull1D
Entries 75
Mean −0.0002786
Std Dev 1.154
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

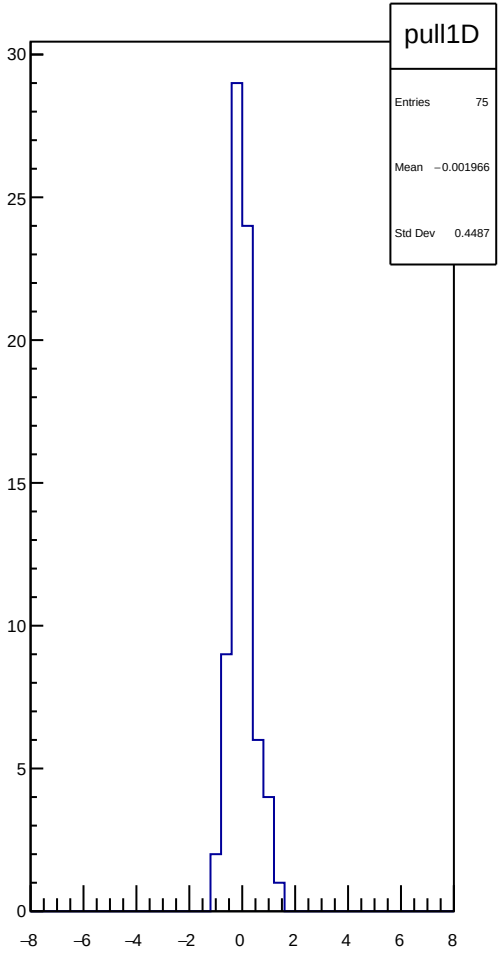

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 2587 / 74
p0 998.5 ± 0.8315
1150
1100
1050
1000
950
900

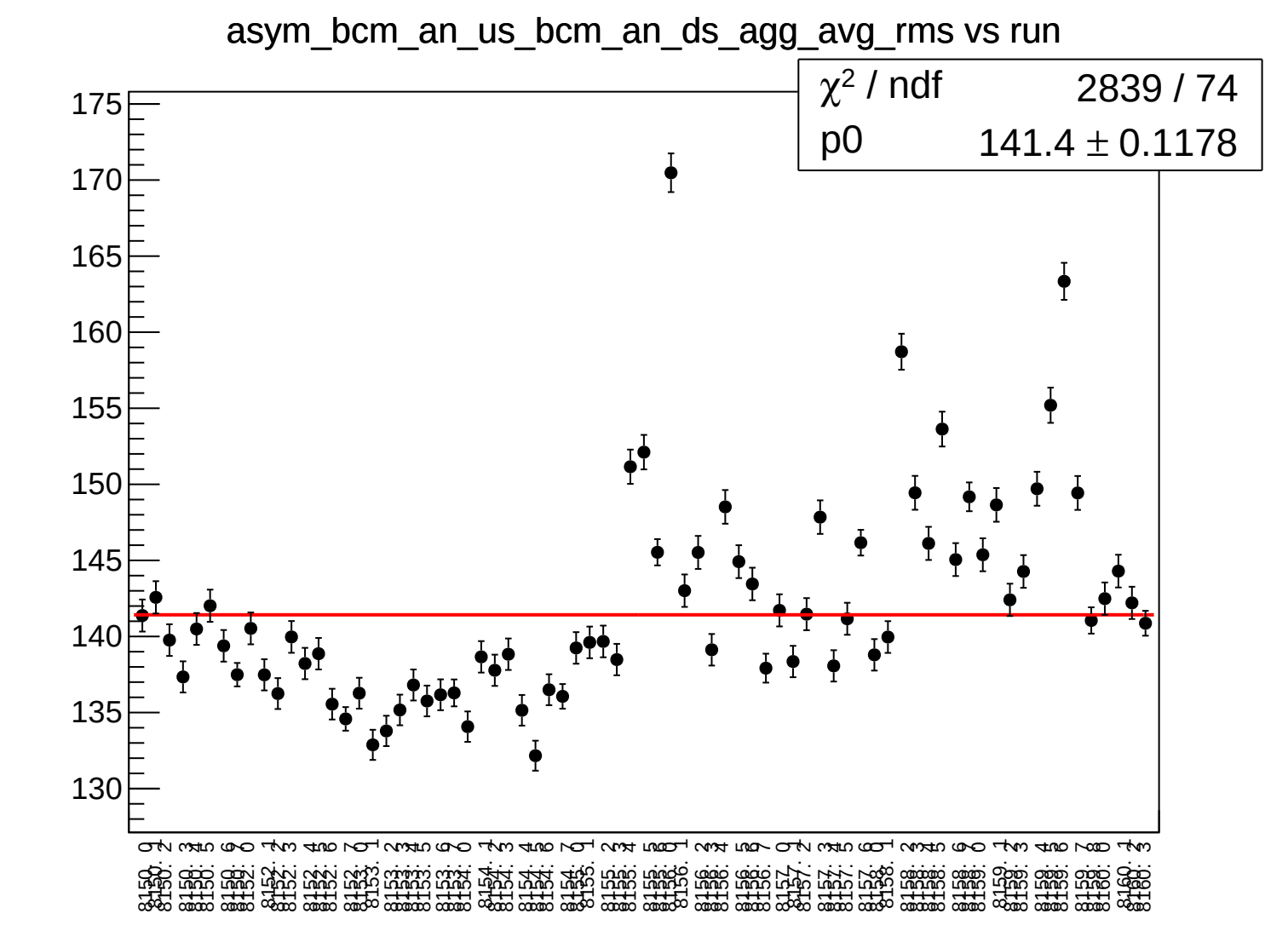

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 100.4 / 74
p0 −885.6 ± 1937
pull
Entries 75
Mean 5.115
Std Dev 93.2

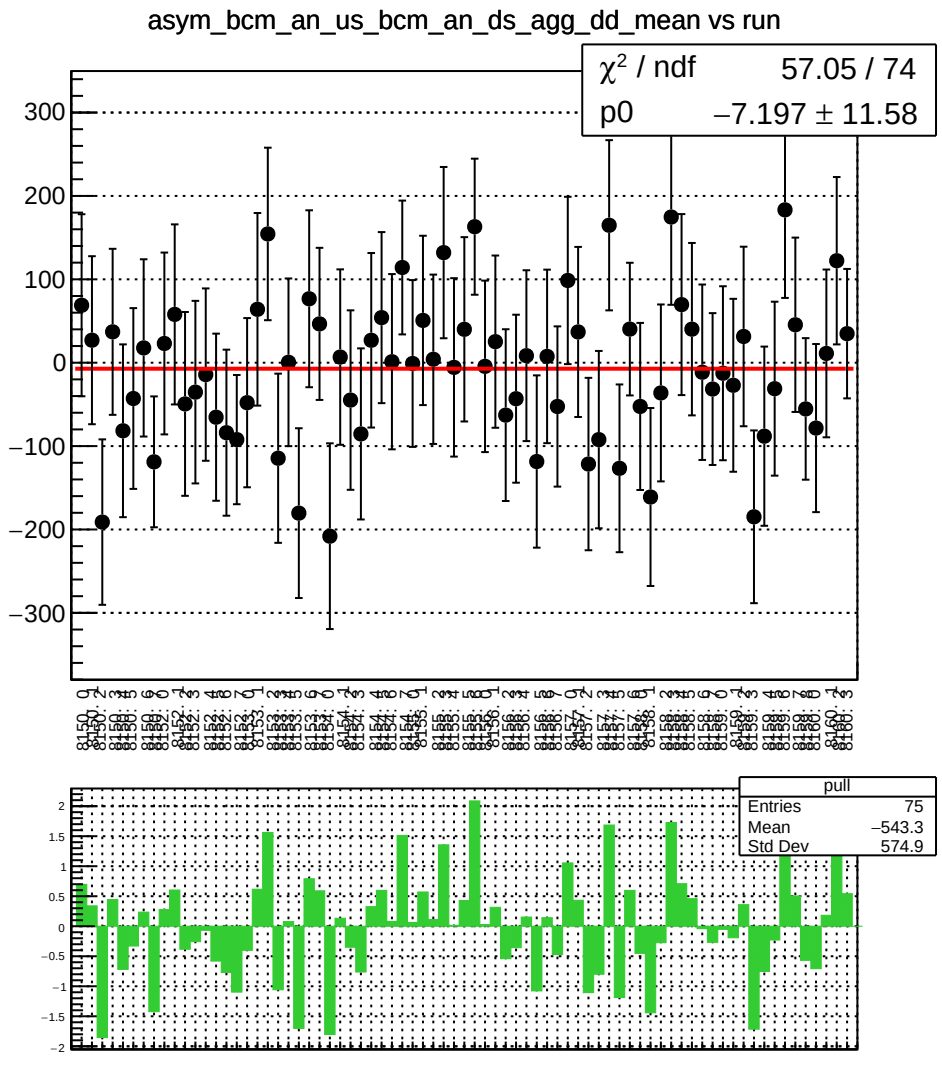

pull1D
Entries 75
Mean −0.01074
Std Dev 1.157

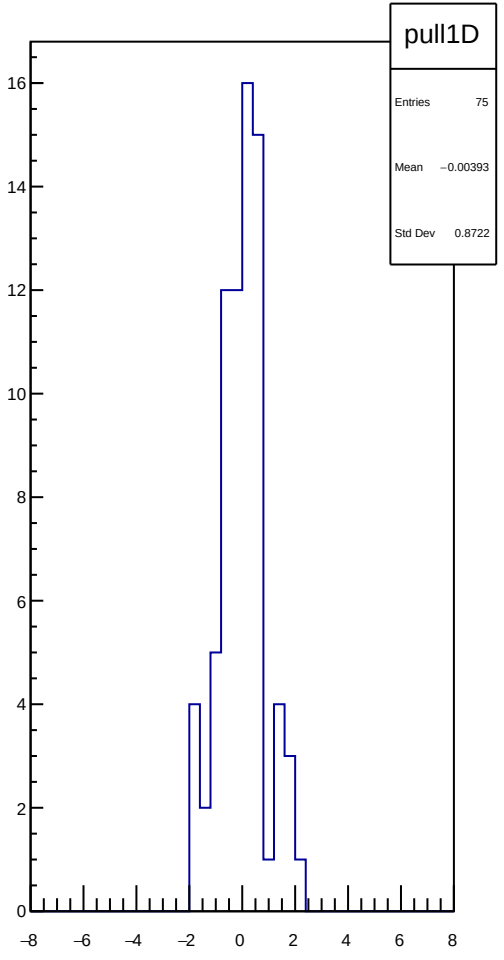

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 4418 / 74
p0 1644 ± 1.37
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

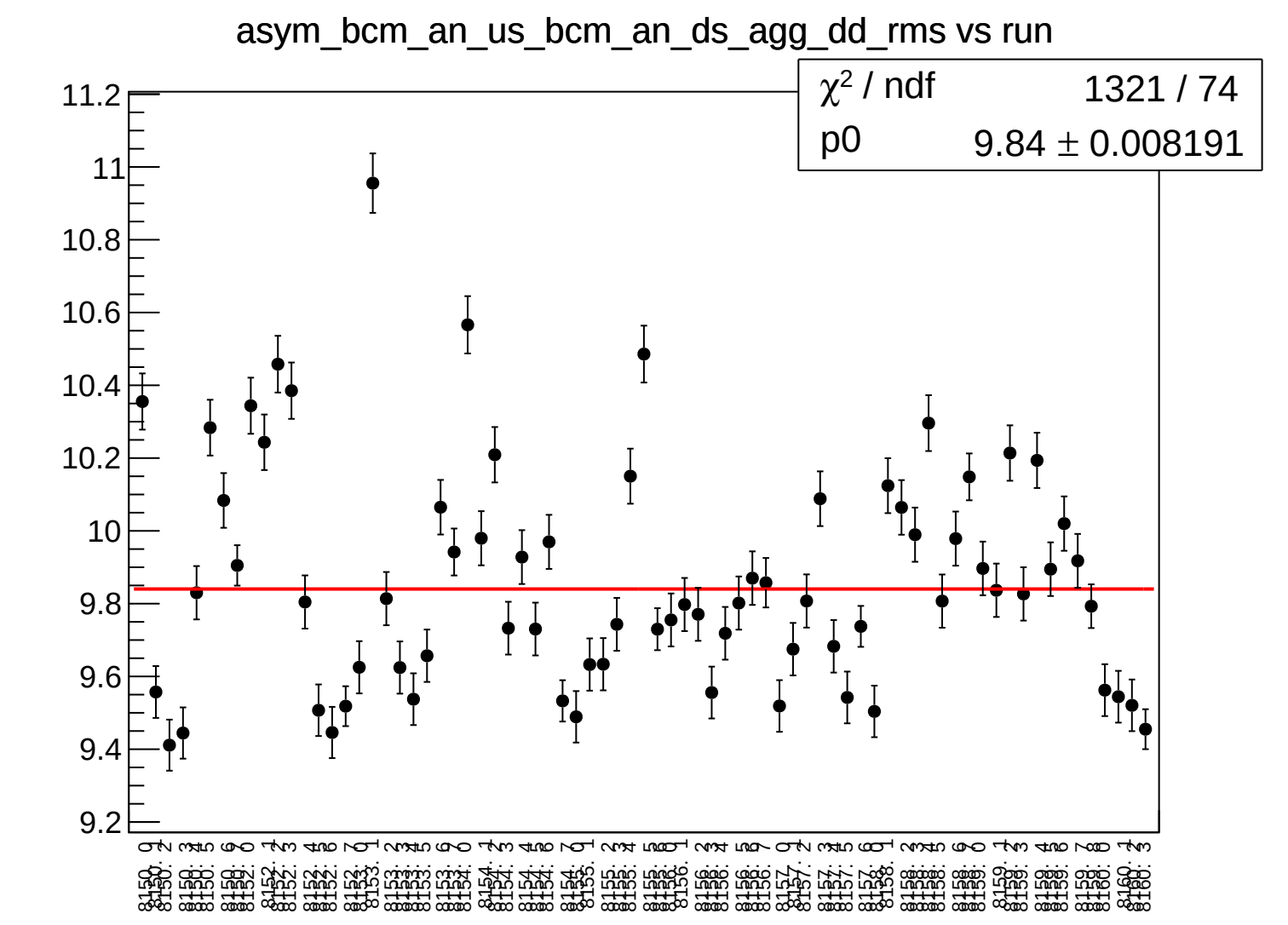

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.1 / 74
p0 133.8 ± 166.6
pull
Entries 75
Mean −77.98
Std Dev 134.6

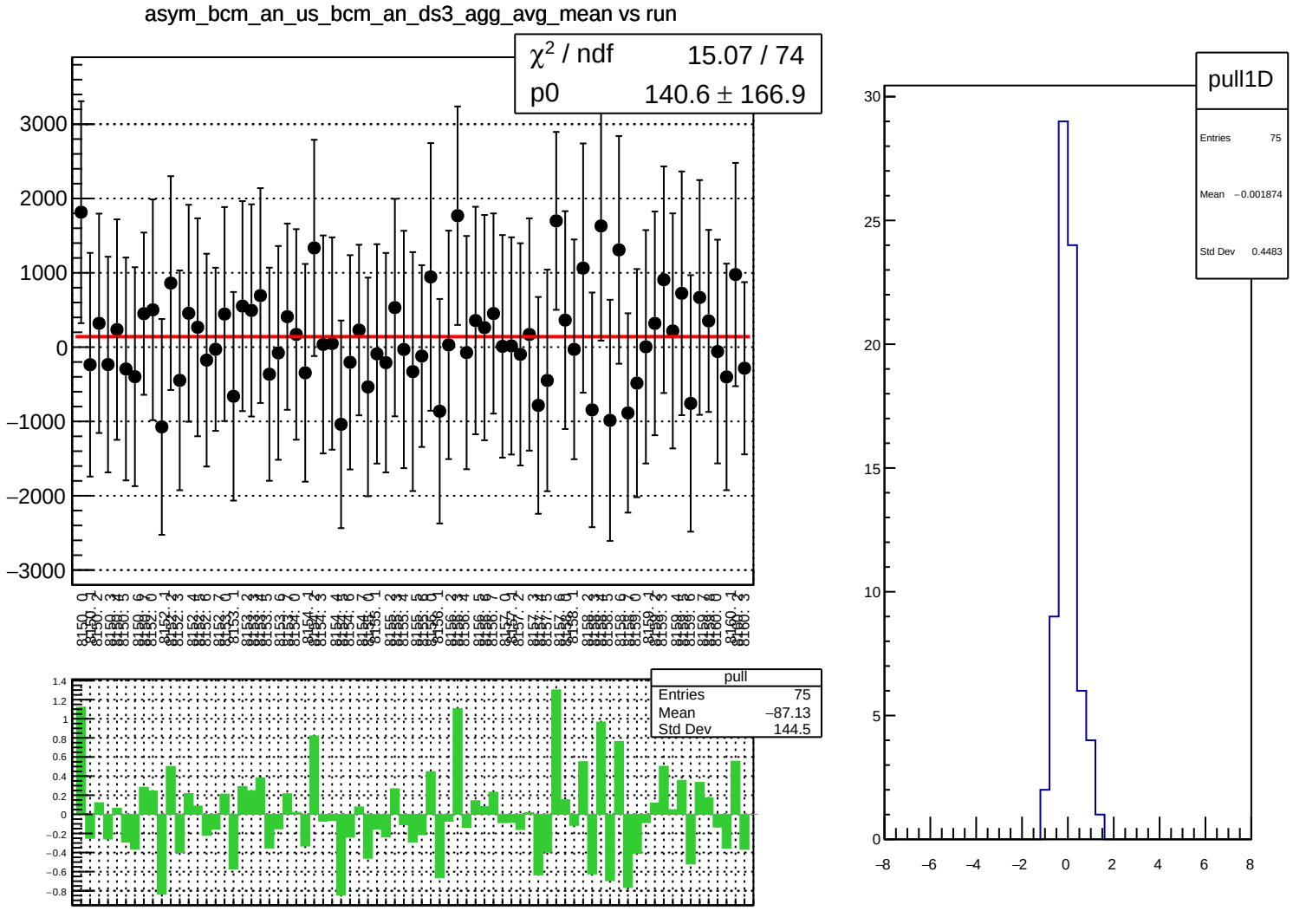

pull1D
Entries 75
Mean −0.001966
Std Dev 0.4487

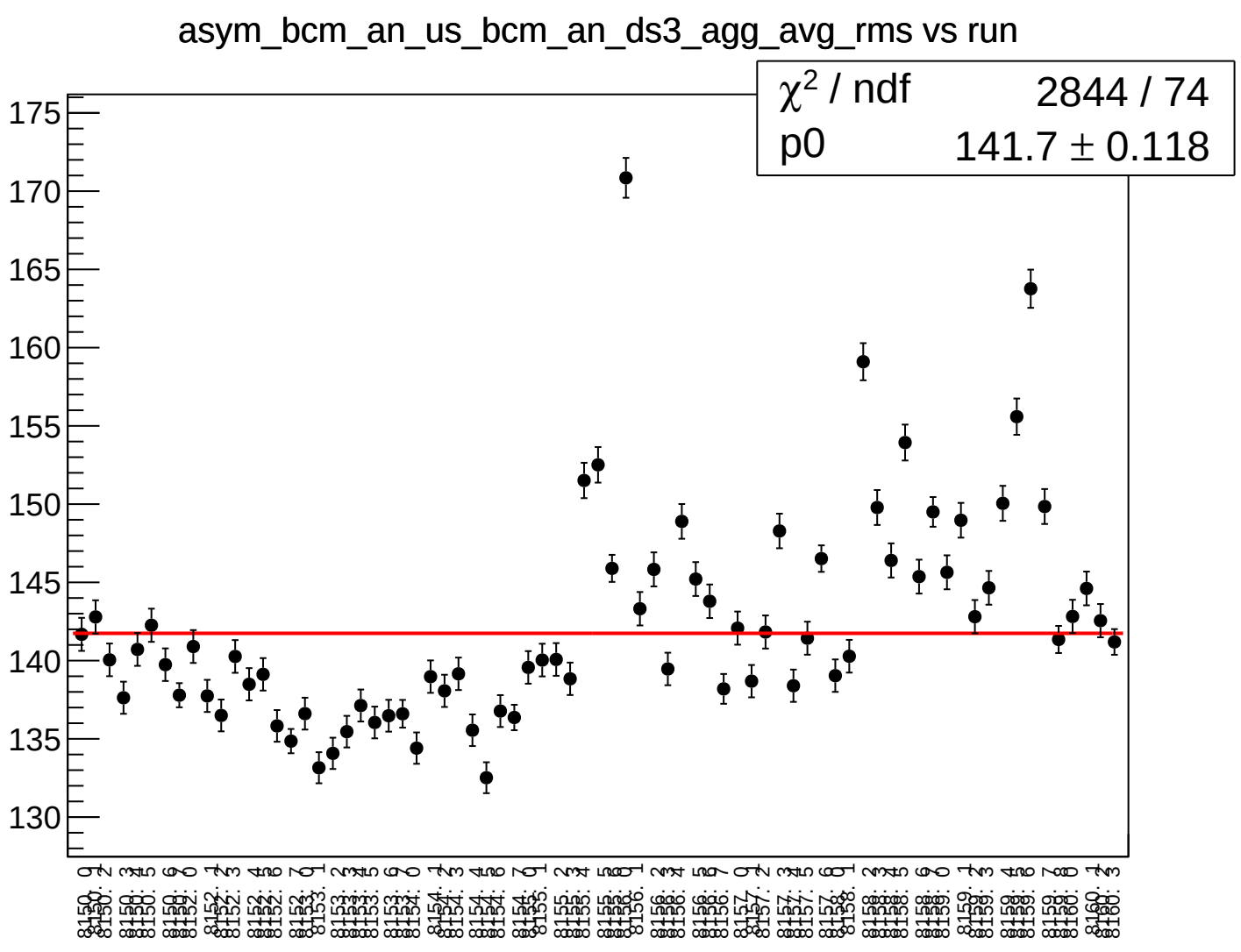

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2839 / 74
p0 141.4 ± 0.1178
175
170
165
160
155
150
145
140
135
130

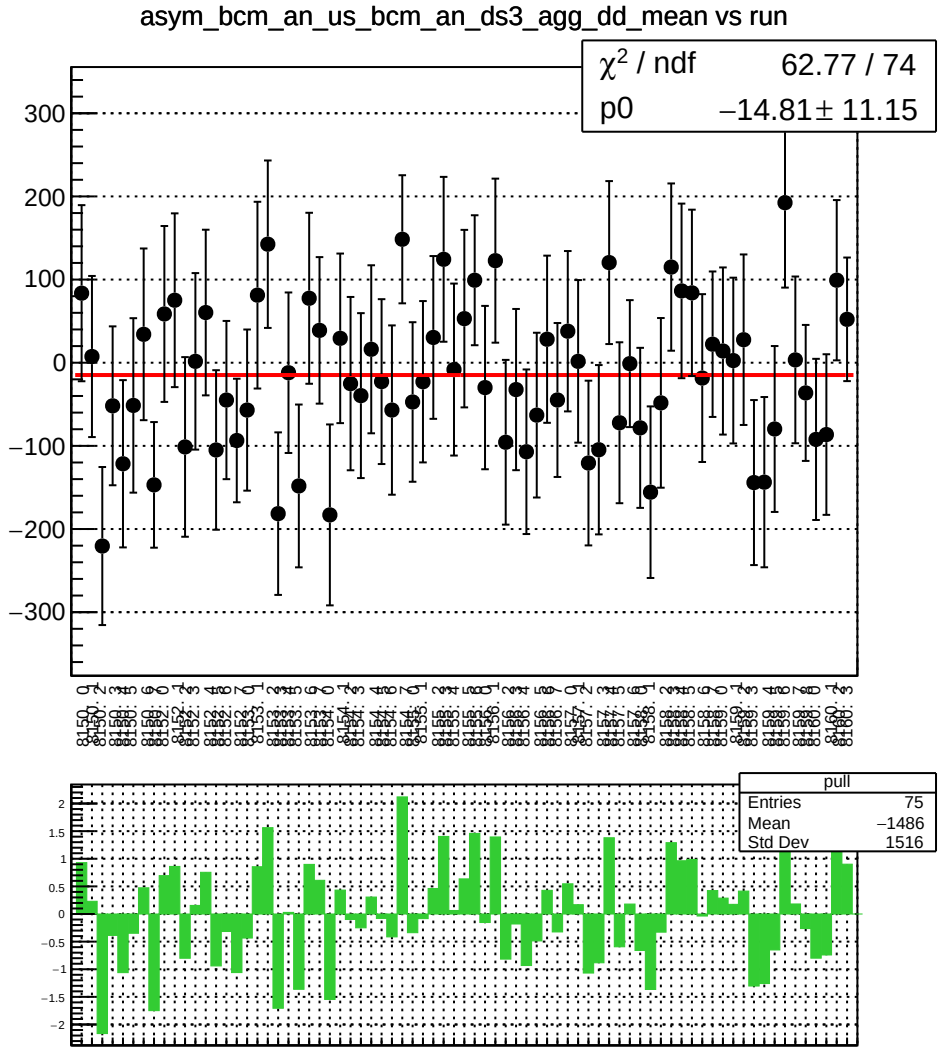

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 57.05 / 74
p0 −7.197 ± 11.58
pull
Entries 75
Mean −543.3
Std Dev 574.9

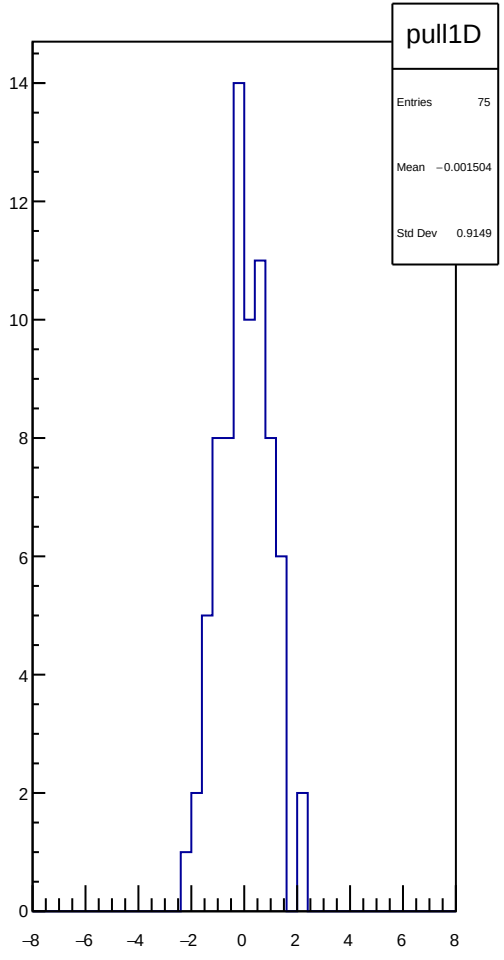

pull1D
Entries 75
Mean −0.00393
Std Dev 0.8722

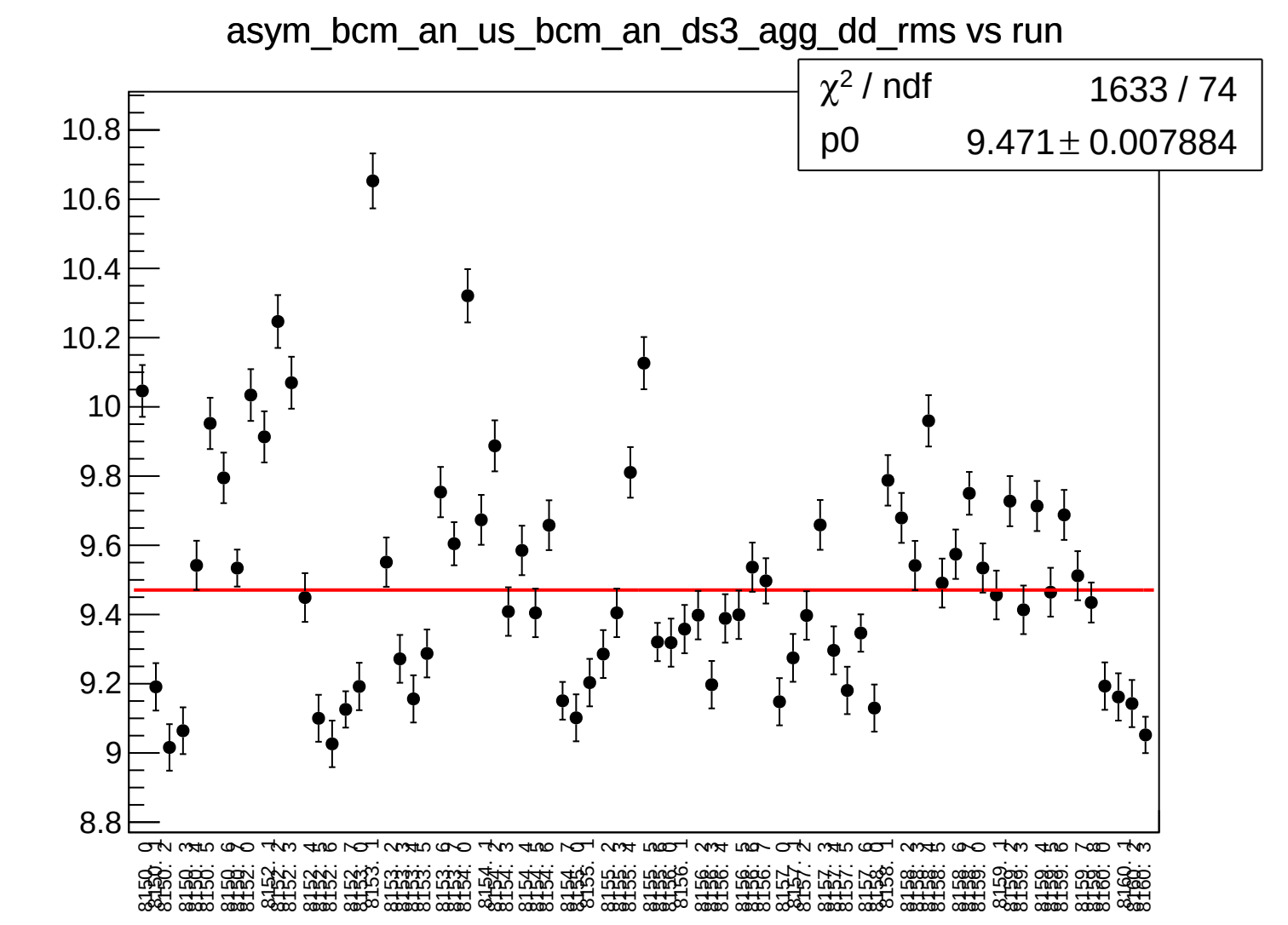

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1321 / 74
p0 9.84 ± 0.008191
11.2
11
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2

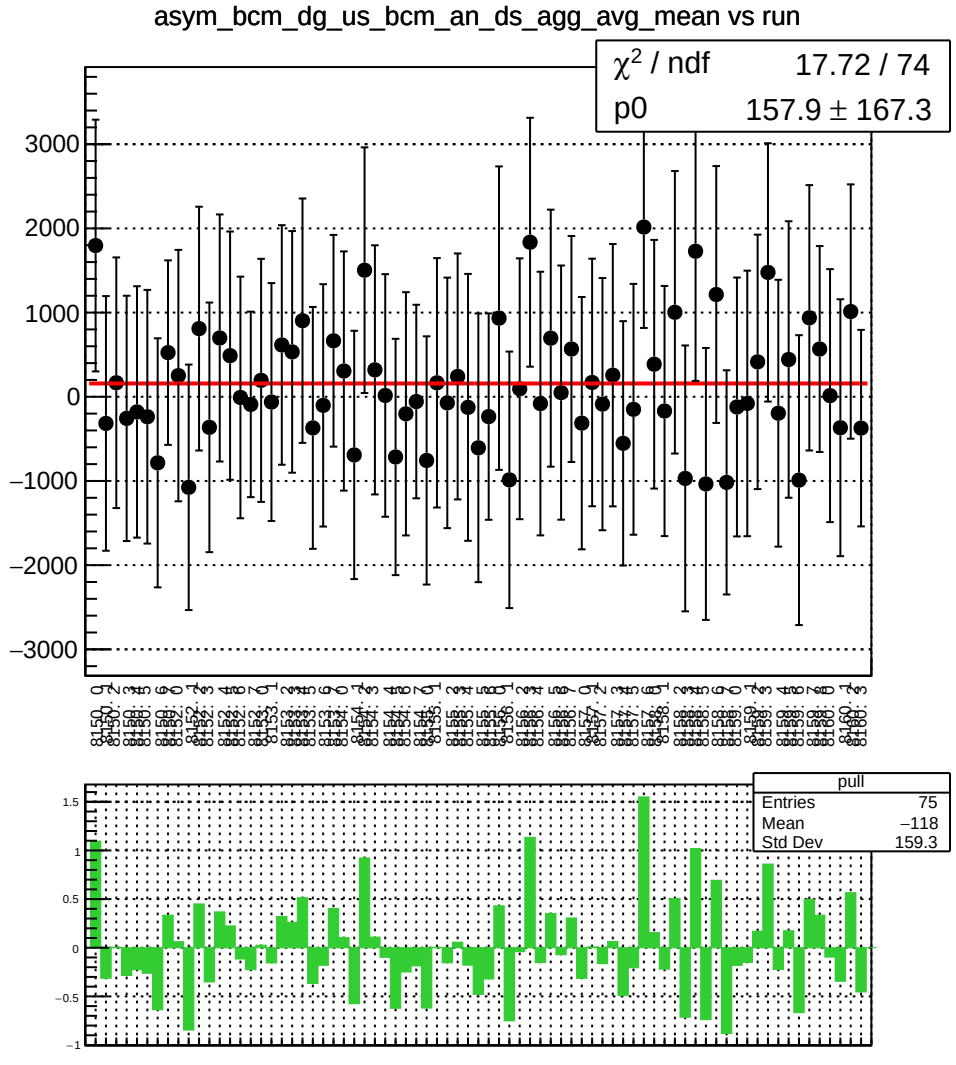

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 15.07 / 74
p0 140.6 ± 166.9
pull
Entries 75
Mean −87.13
Std Dev 144.5
pull1D
Entries 75
Mean −0.001874
Std Dev 0.4483

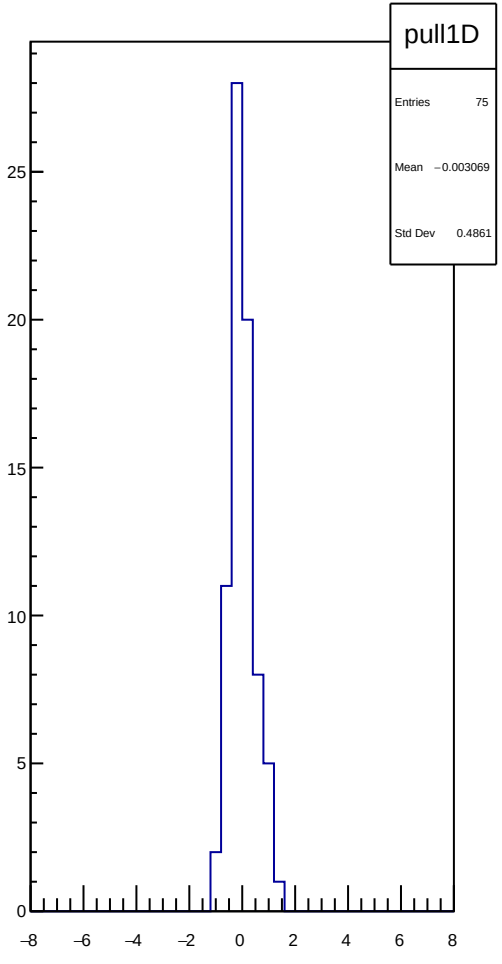

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2844 / 74
p0 141.7 ± 0.118
175
170
165
160
155
150
145
140
135
130

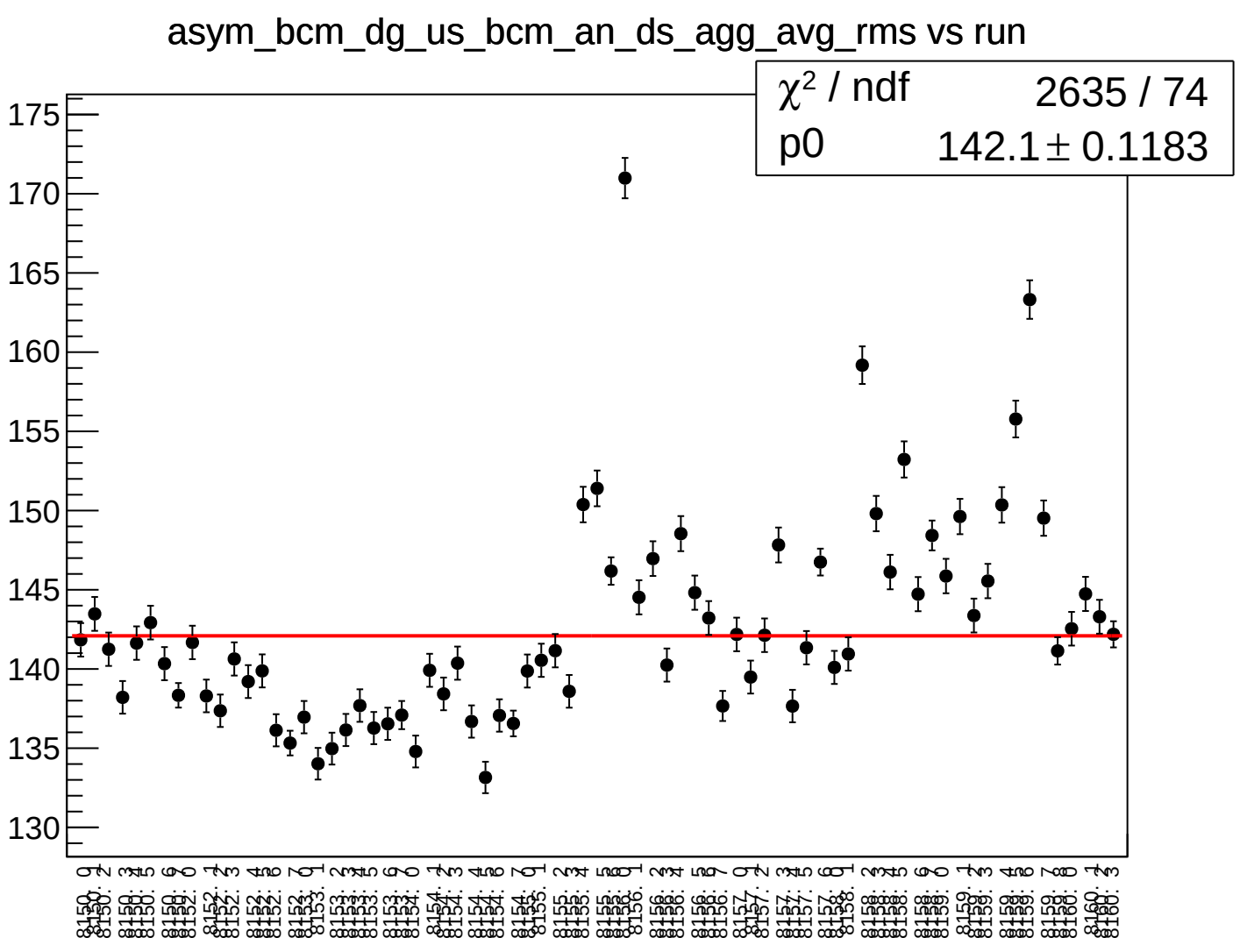

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 62.77 / 74
p0 −14.81 ± 11.15
300
200
100
0
−100
−200
−300
pull
Entries 75
Mean −1486
Std Dev 1516
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

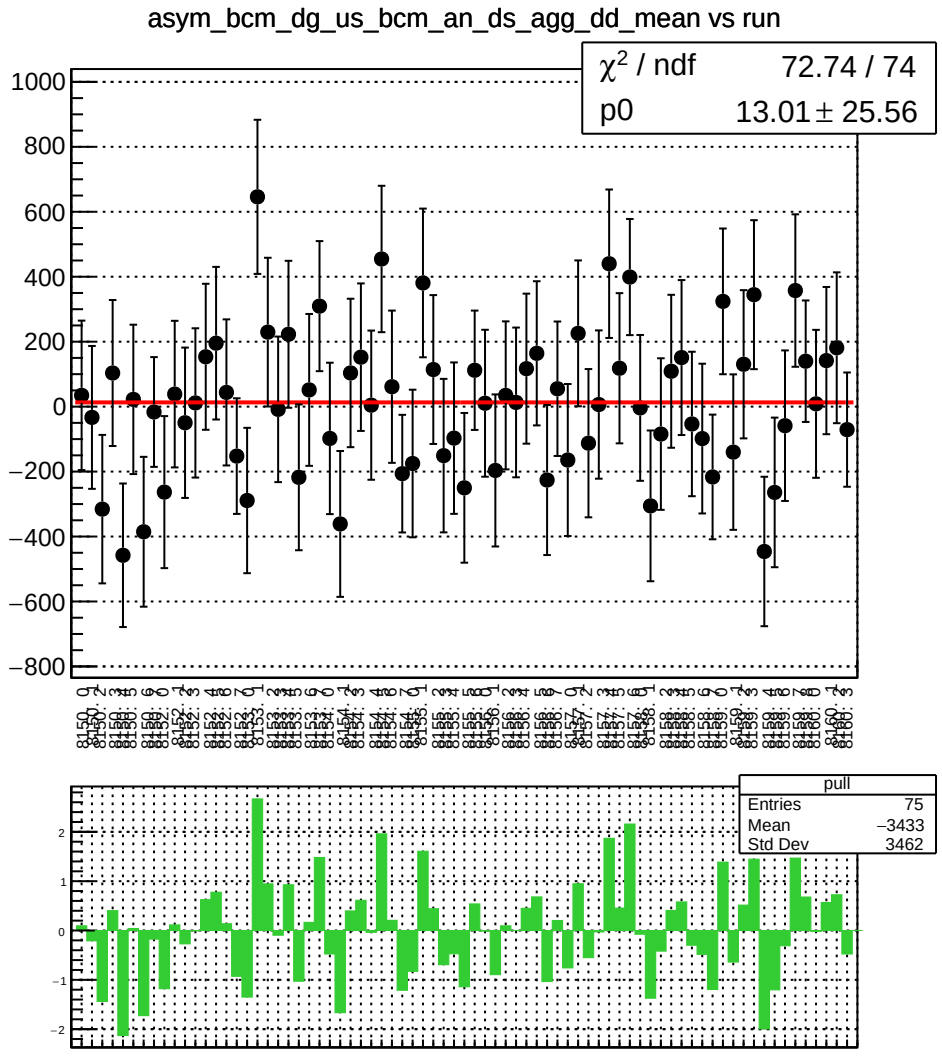

pull1D
Entries 75
Mean −0.001504
Std Dev 0.9149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

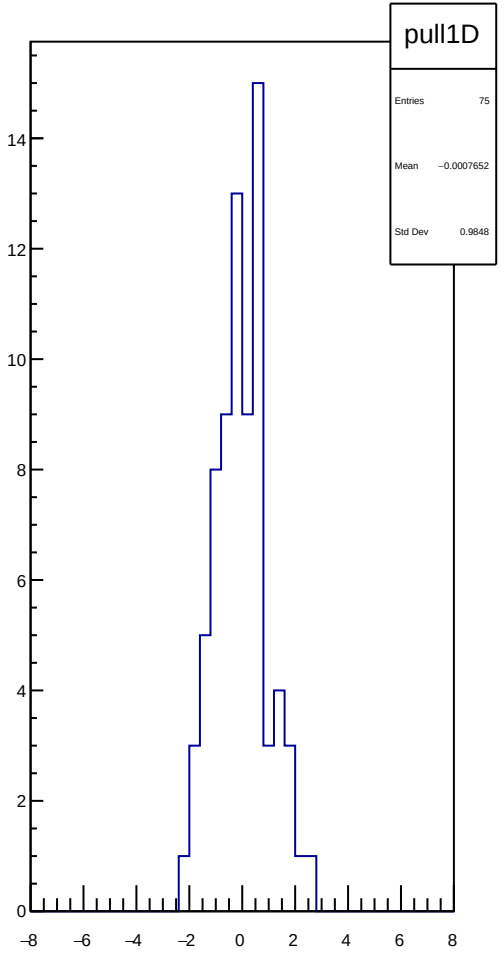

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1633 / 74
p0 9.471 ± 0.007884
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2
9
8.8

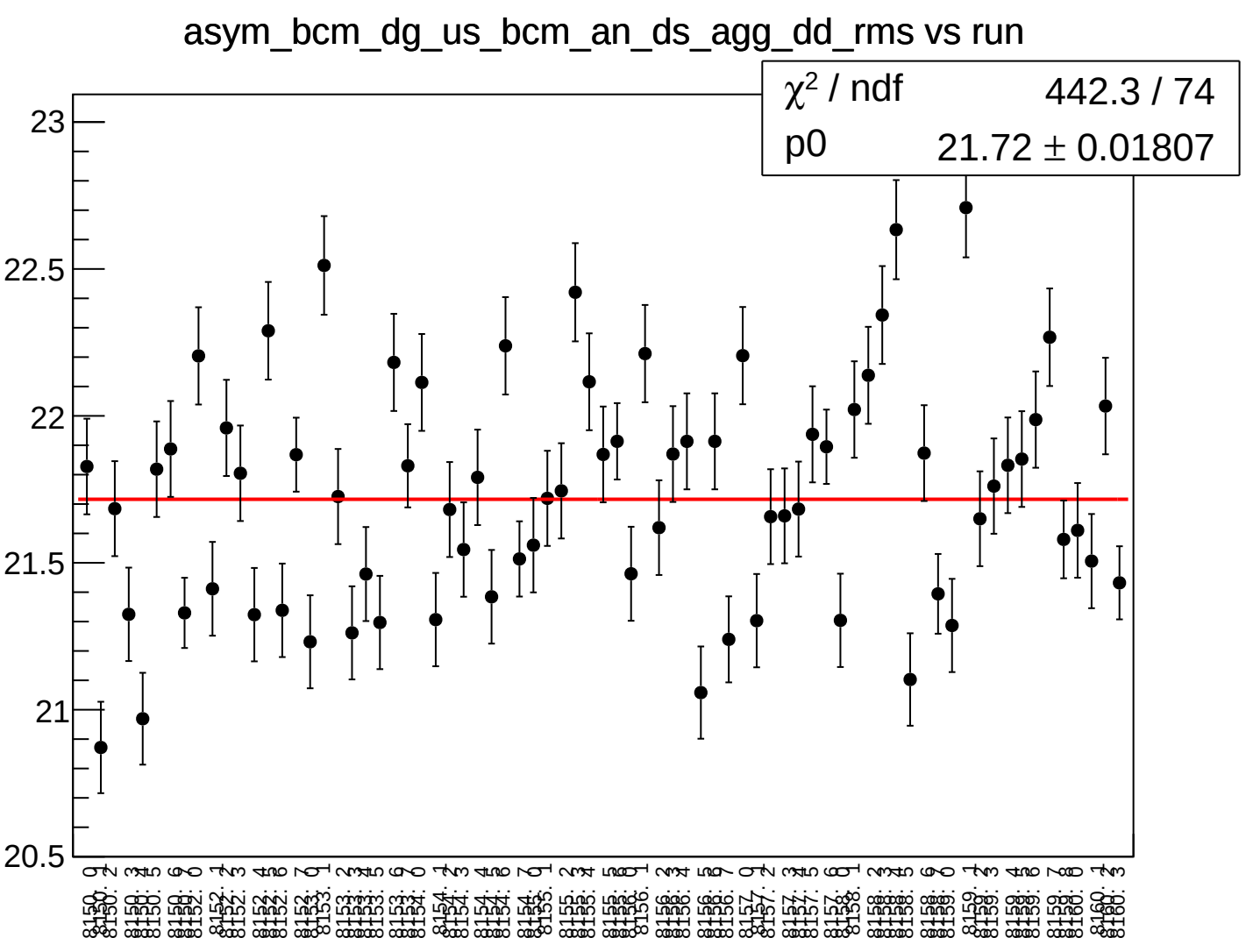

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.72 / 74
p0 157.9 ± 167.3
pull
Entries 75
Mean −118
Std Dev 159.3

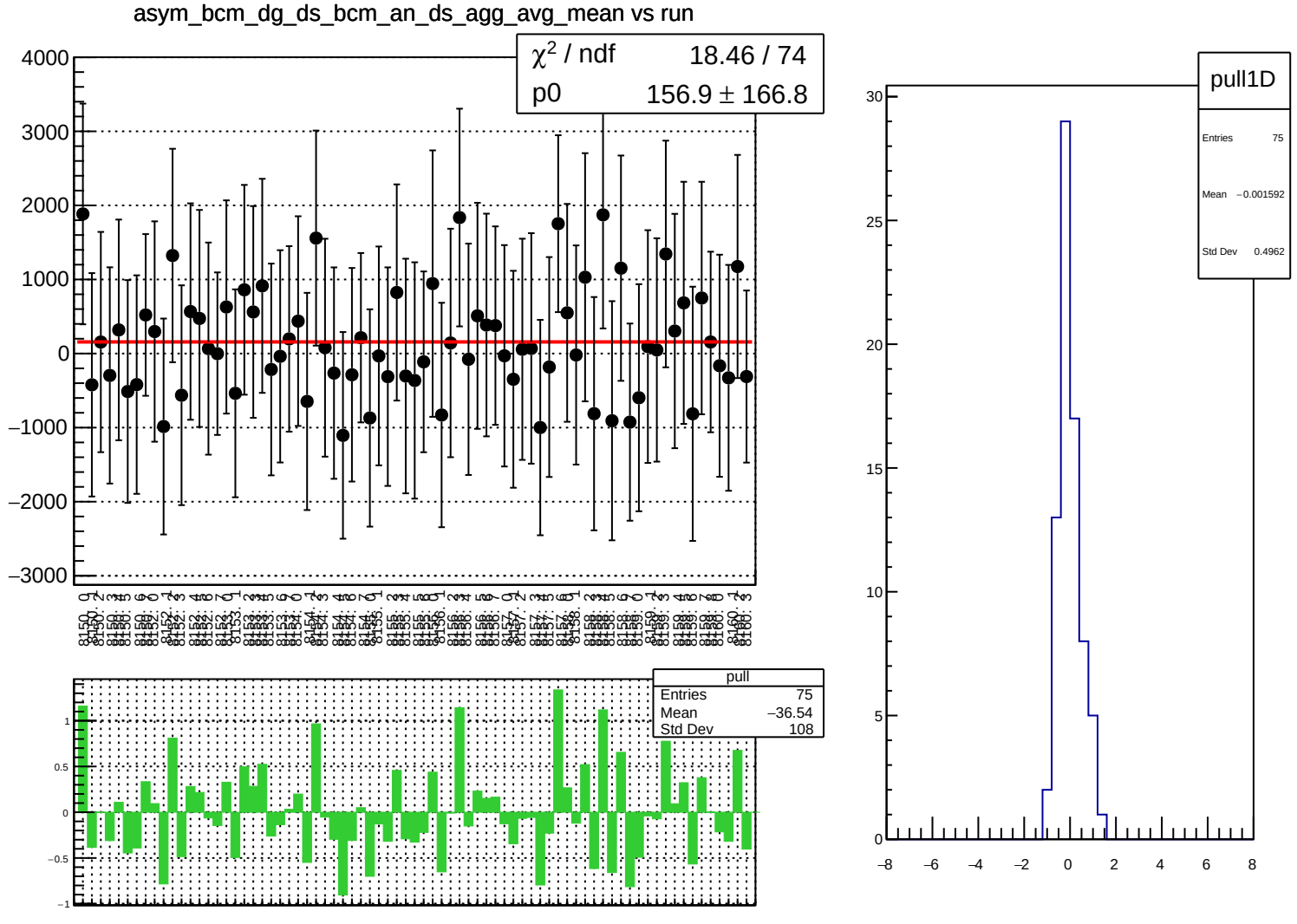

pull1D
Entries 75
Mean −0.003069
Std Dev 0.4861

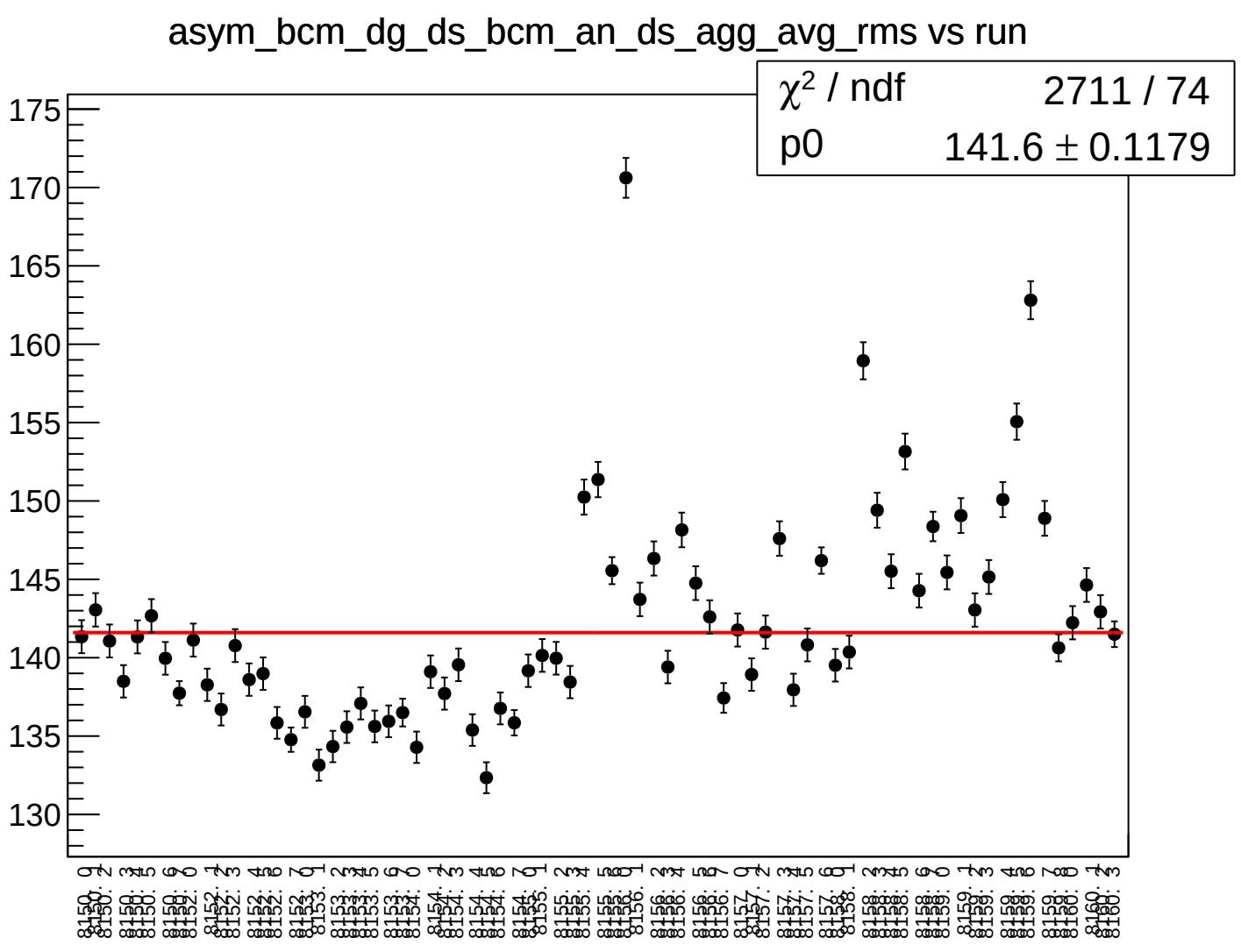

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2635 / 74
p0 142.1 ± 0.1183
175
170
165
160
155
150
145
140
135
130

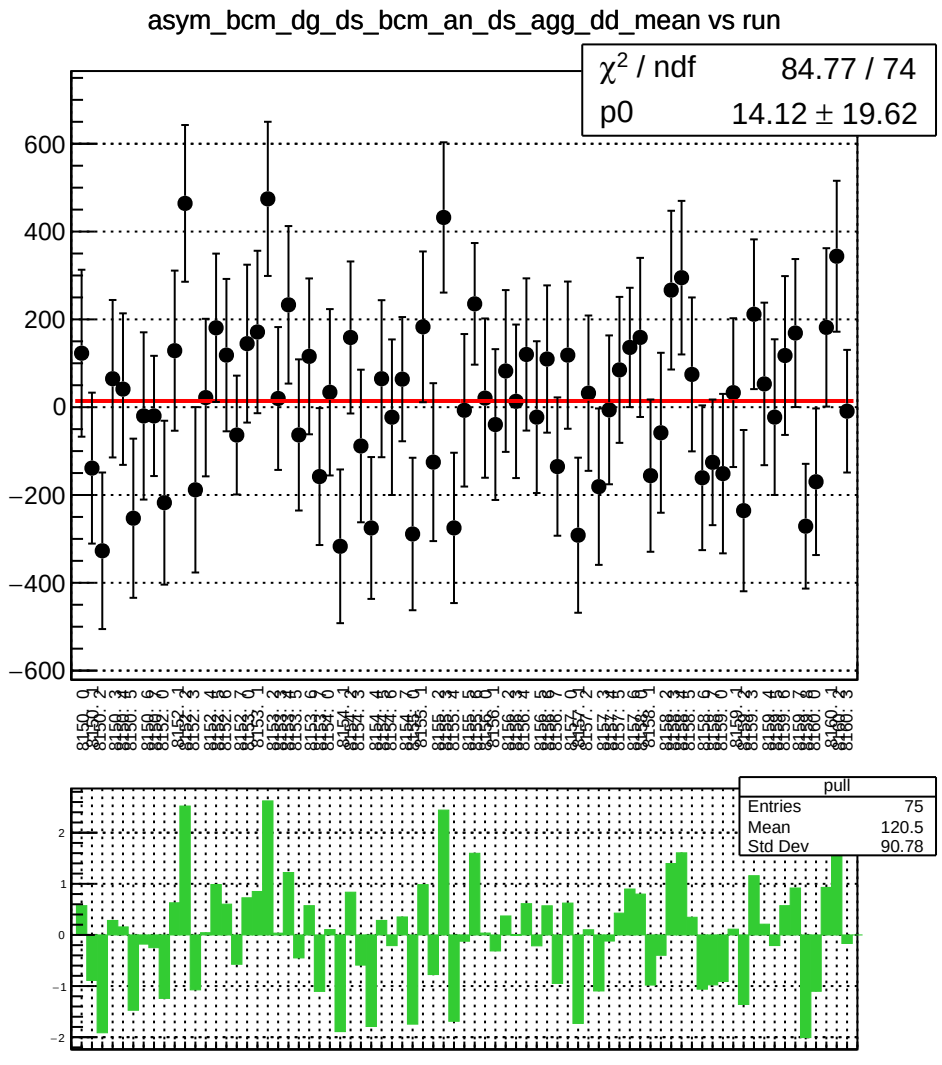

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 72.74 / 74
p0 13.01 ± 25.56
pull
Entries 75
Mean −3433
Std Dev 3462

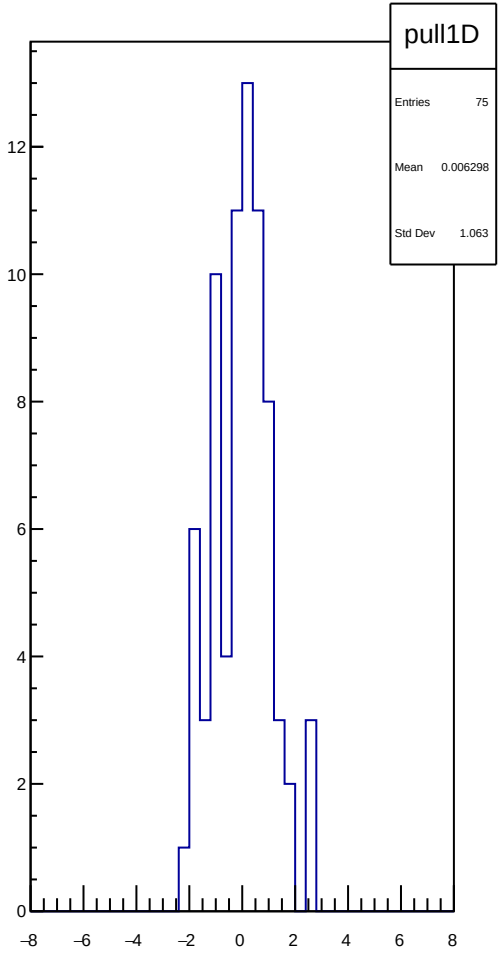

pull1D
Entries 75
Mean −0.0007652
Std Dev 0.9848

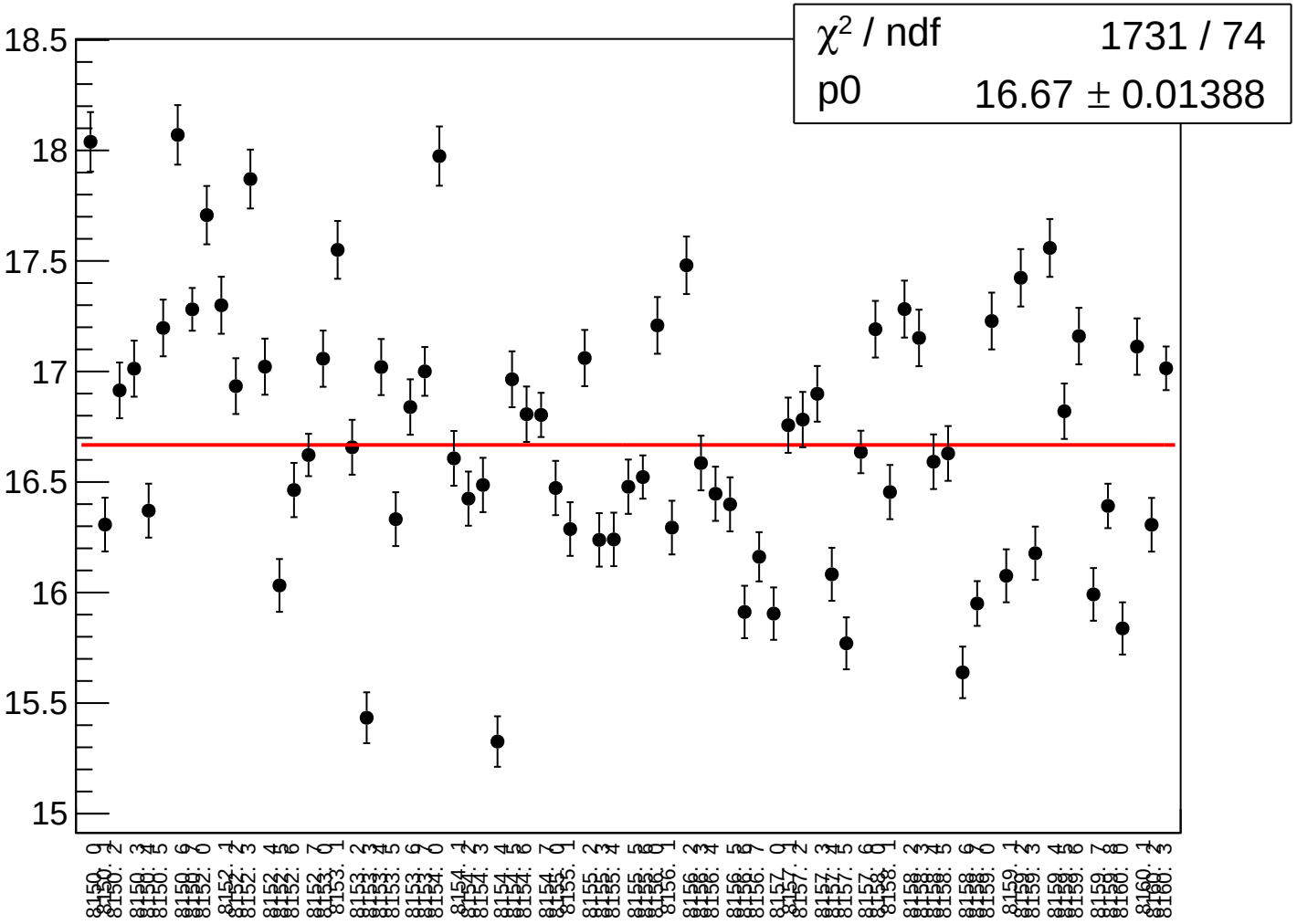

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 442.3 / 74
p0 21.72 ± 0.01807
23
22.5
22
21.5
21
20.5

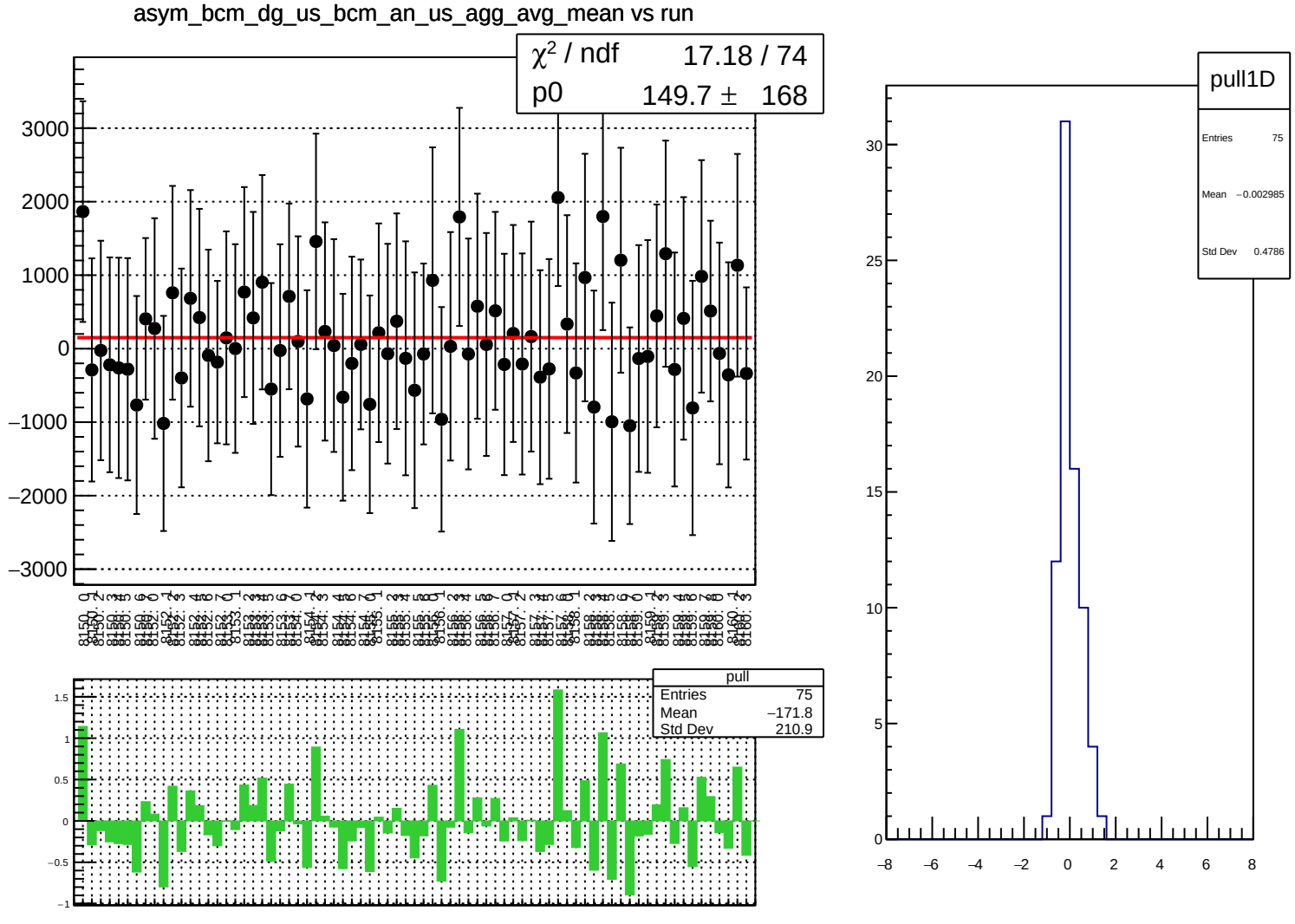

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.46 / 74
p0 156.9 ± 166.8
pull
Entries 75
Mean −36.54
Std Dev 108
pull1D
Entries 75
Mean −0.001592
Std Dev 0.4962

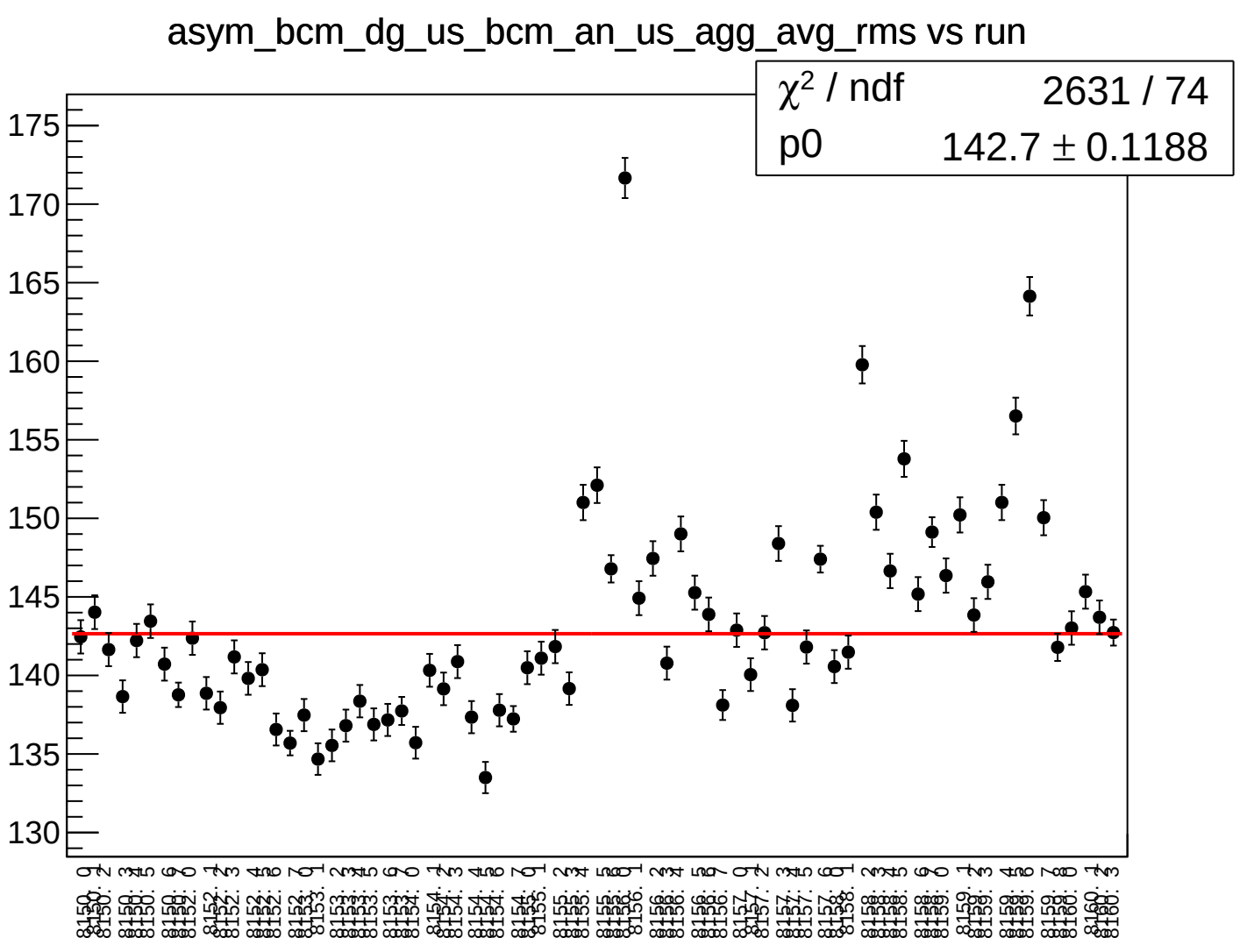

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2711 / 74
p0 141.6 ± 0.1179
175
170
165
160
155
150
145
140
135
130

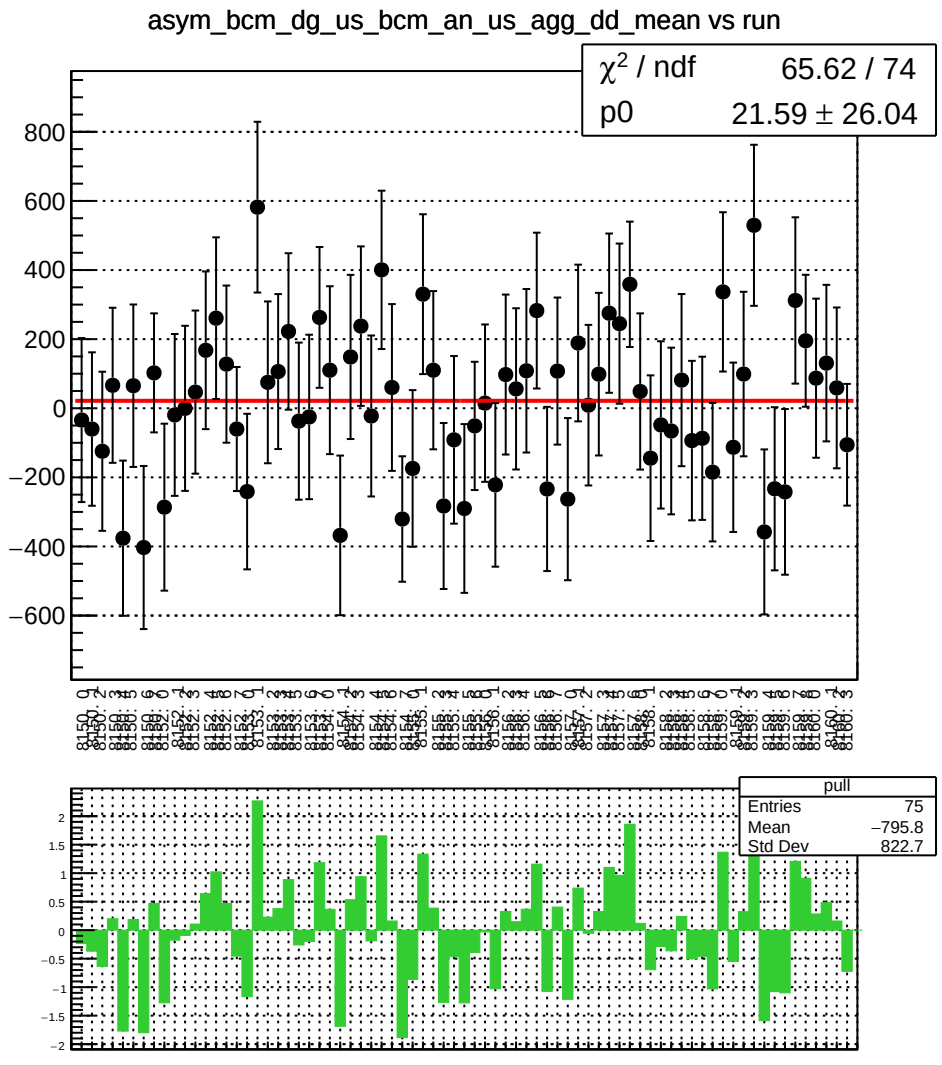

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 84.77 / 74
p0 14.12 ± 19.62
pull
Entries 75
Mean 120.5
Std Dev 90.78

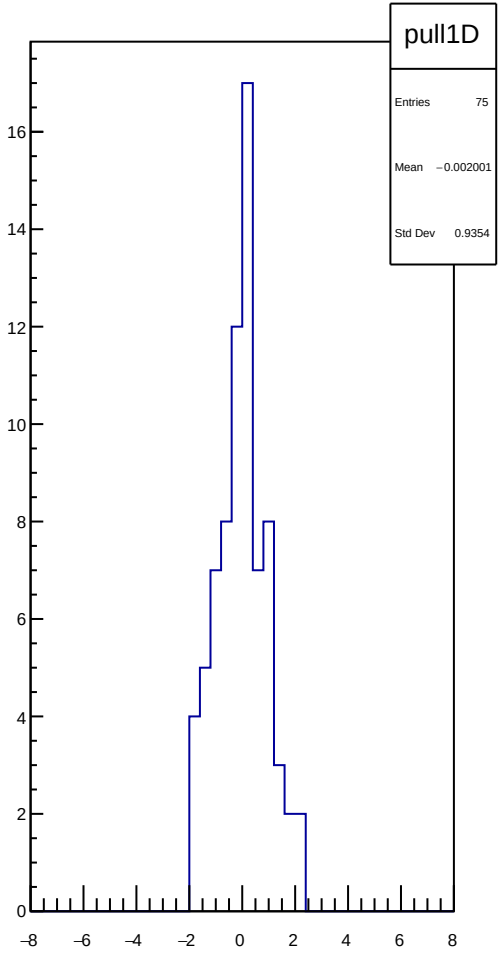

pull1D
Entries 75
Mean 0.006298
Std Dev 1.063

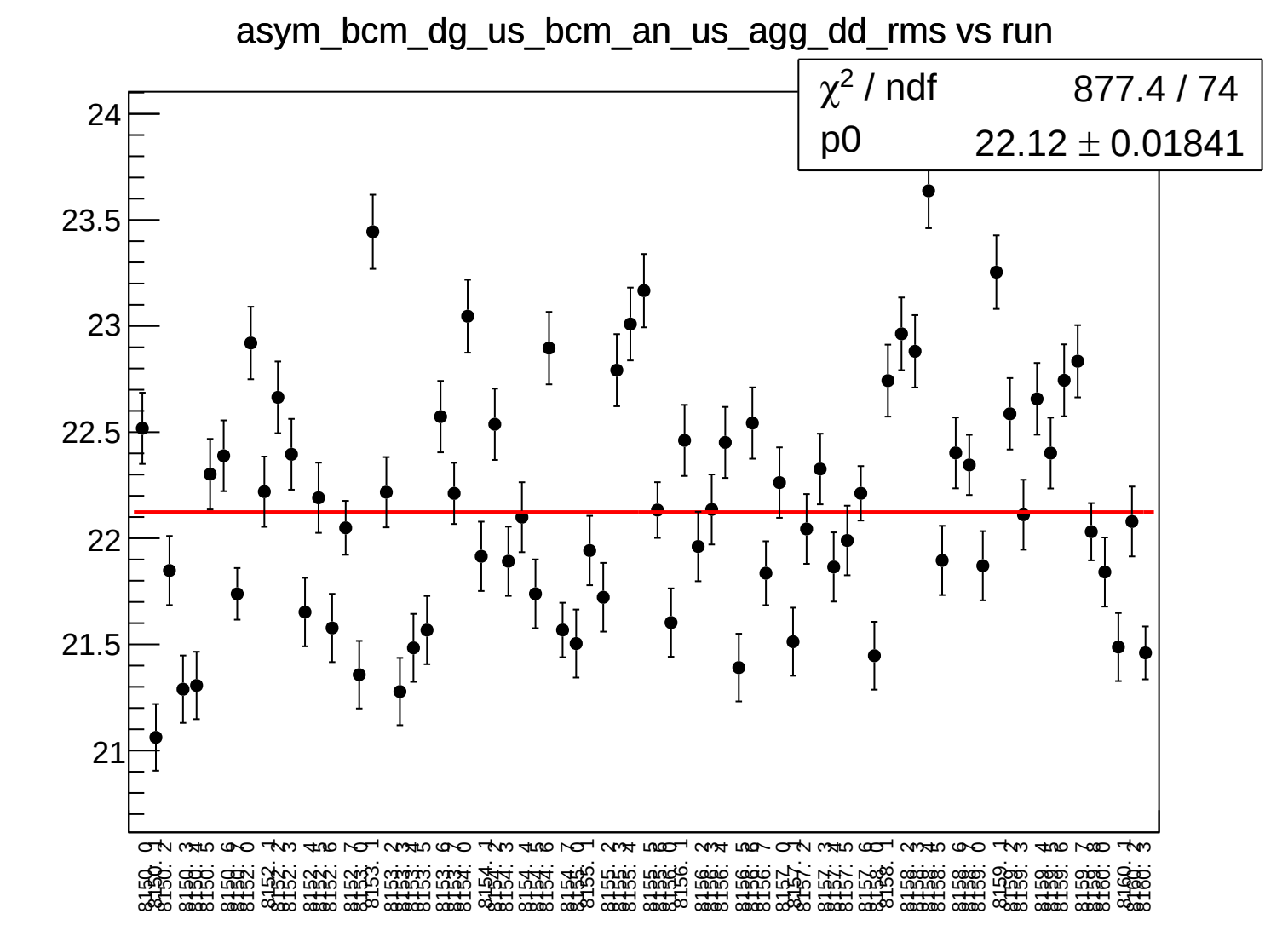

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1731 / 74
p0 16.67 ± 0.01388
18.5
18
17.5
17
16.5
16
15.5
15

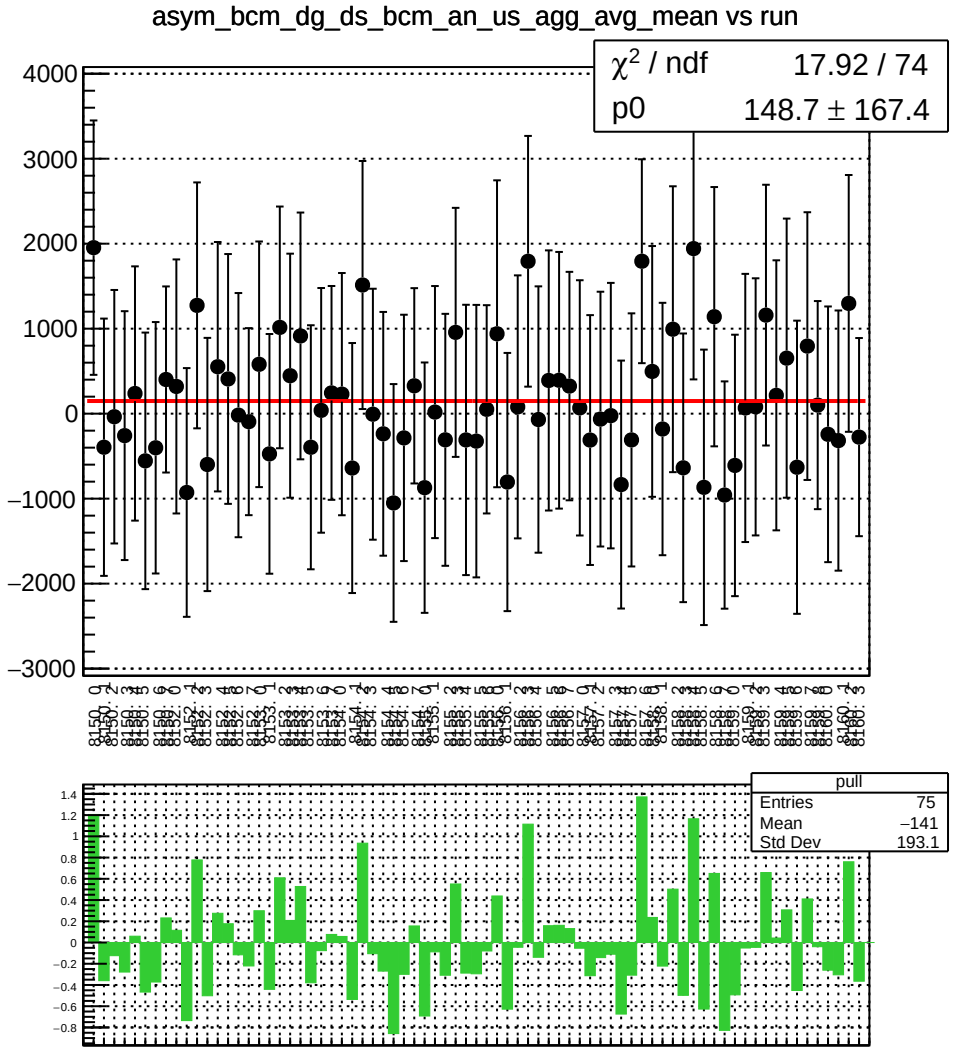

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.18 / 74
p0 149.7 ± 168
pull
Entries 75
Mean −171.8
Std Dev 210.9
pull1D
Entries 75
Mean −0.002985
Std Dev 0.4786

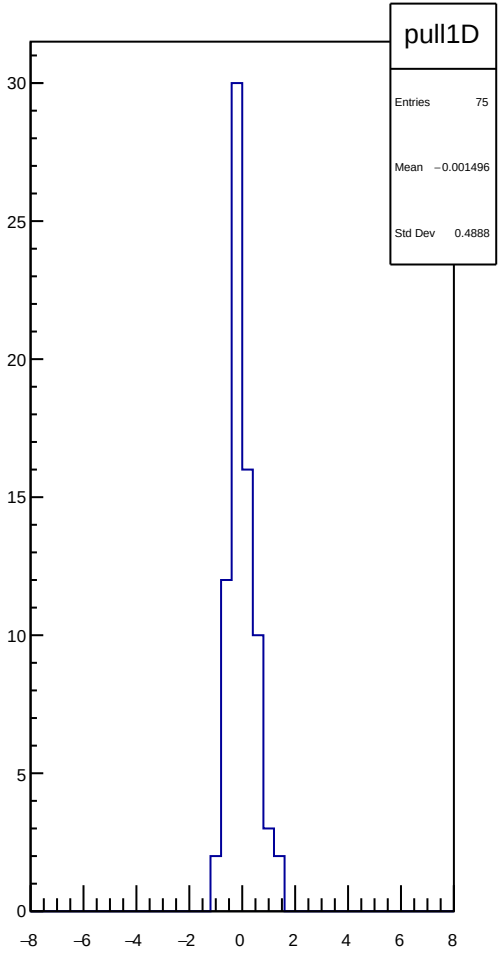

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2631 / 74
p0 142.7 ± 0.1188
175
170
165
160
155
150
145
140
135
130

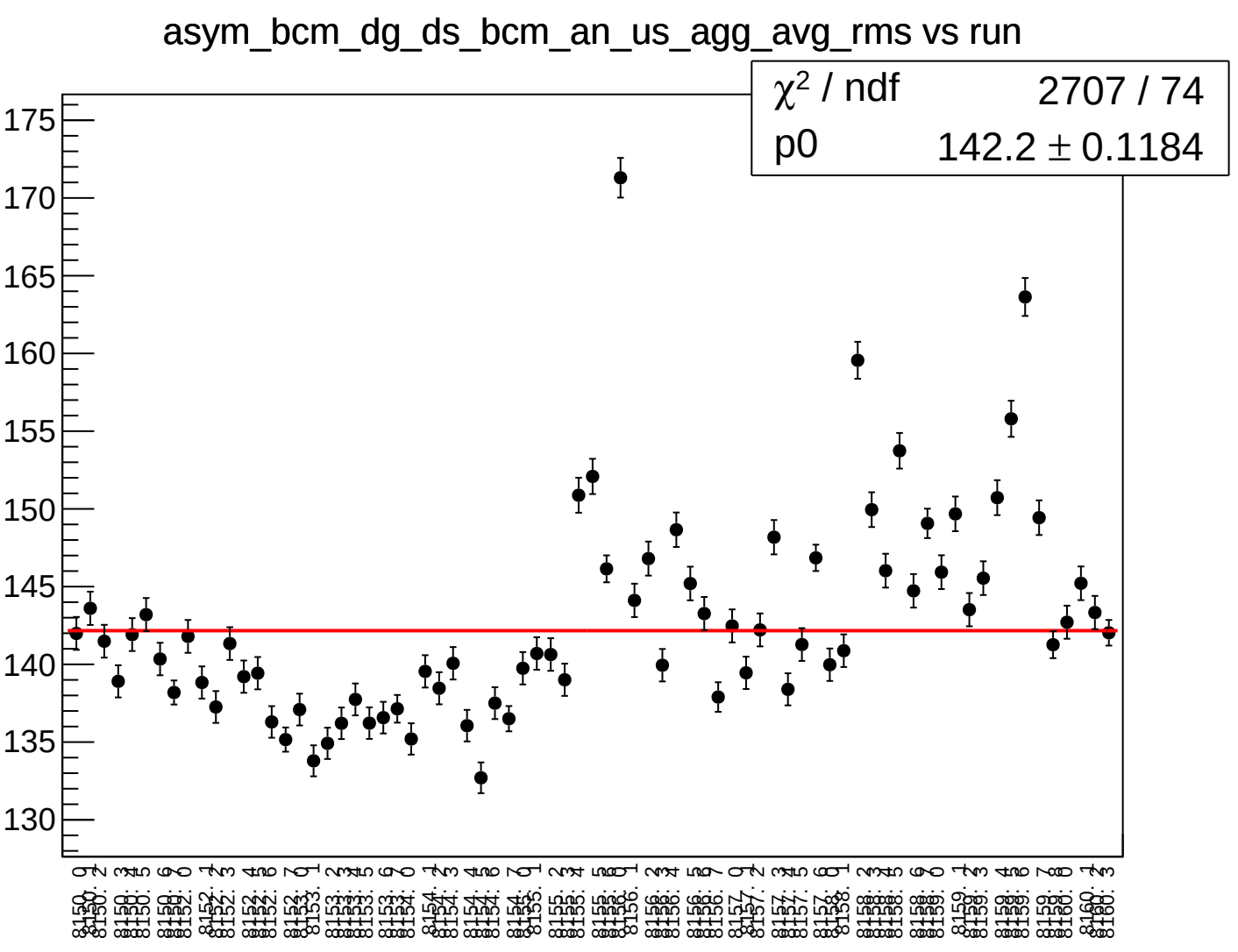

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 65.62 / 74
p0 21.59 ± 26.04
pull
Entries 75
Mean −795.8
Std Dev 822.7

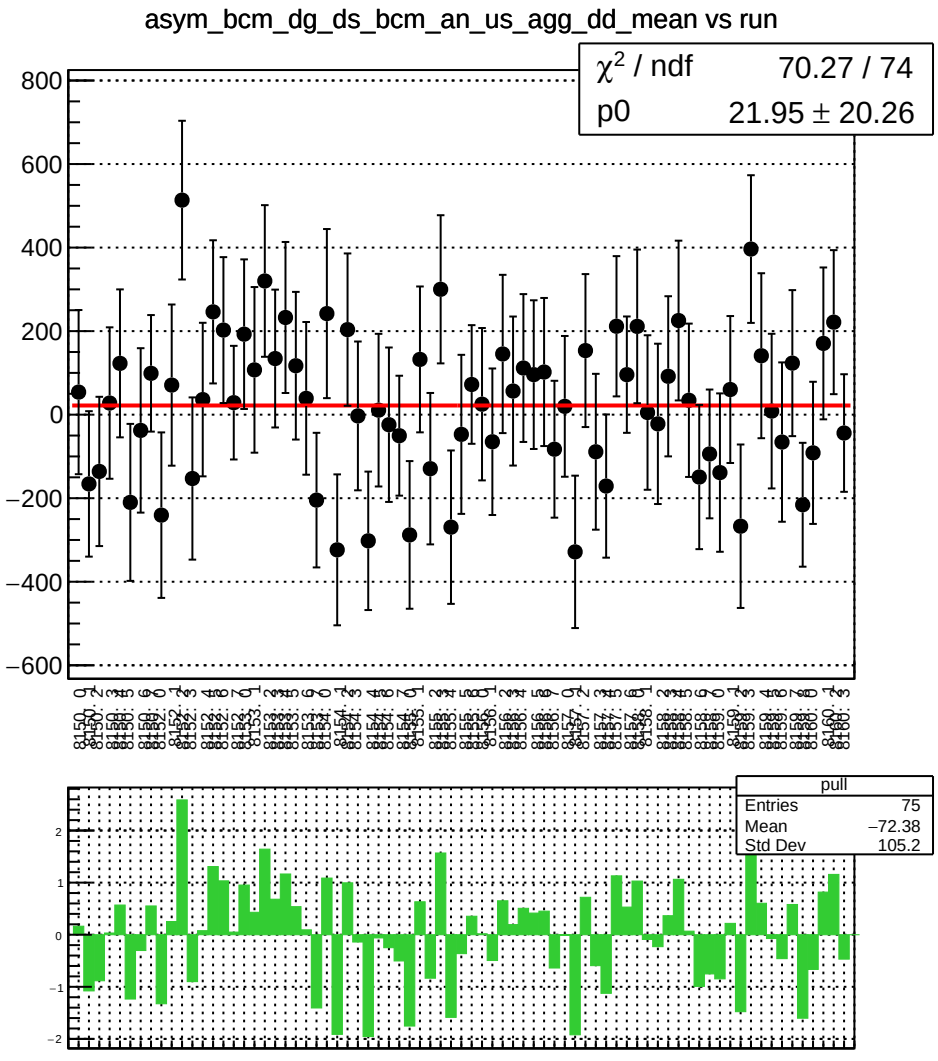

pull1D
Entries 75
Mean −0.002001
Std Dev 0.9354

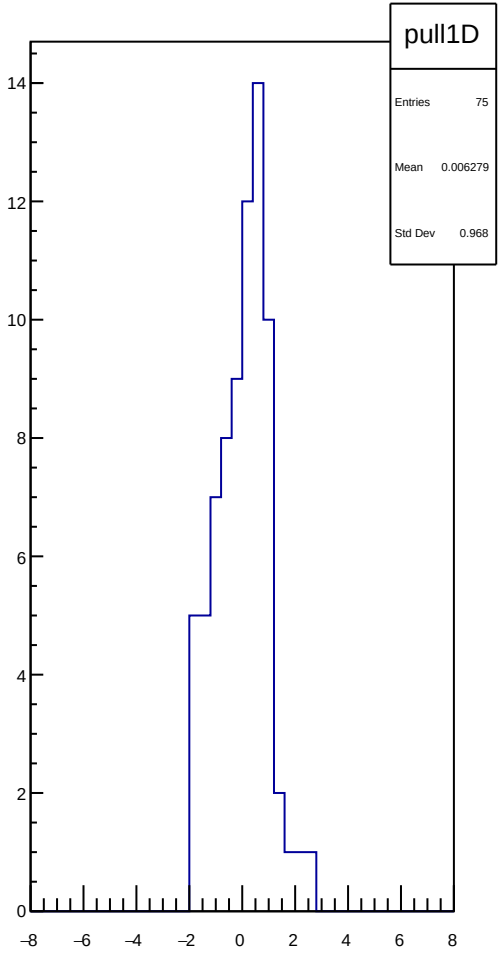

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 877.4 / 74
p0 22.12 ± 0.01841
24
23.5
23
22.5
22
21.5
21

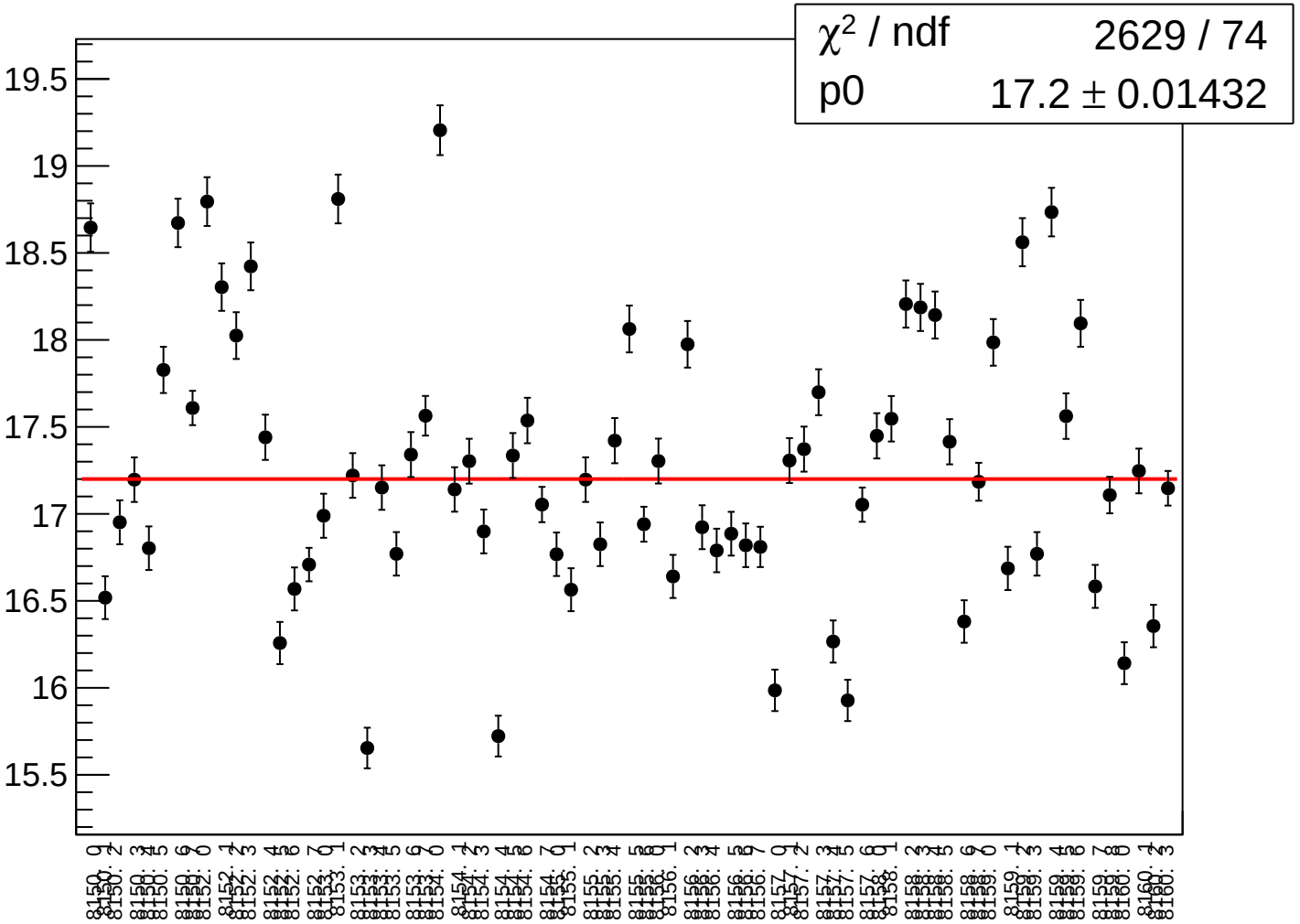

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.92 / 74
p0 148.7 ± 167.4
pull
Entries 75
Mean −141
Std Dev 193.1

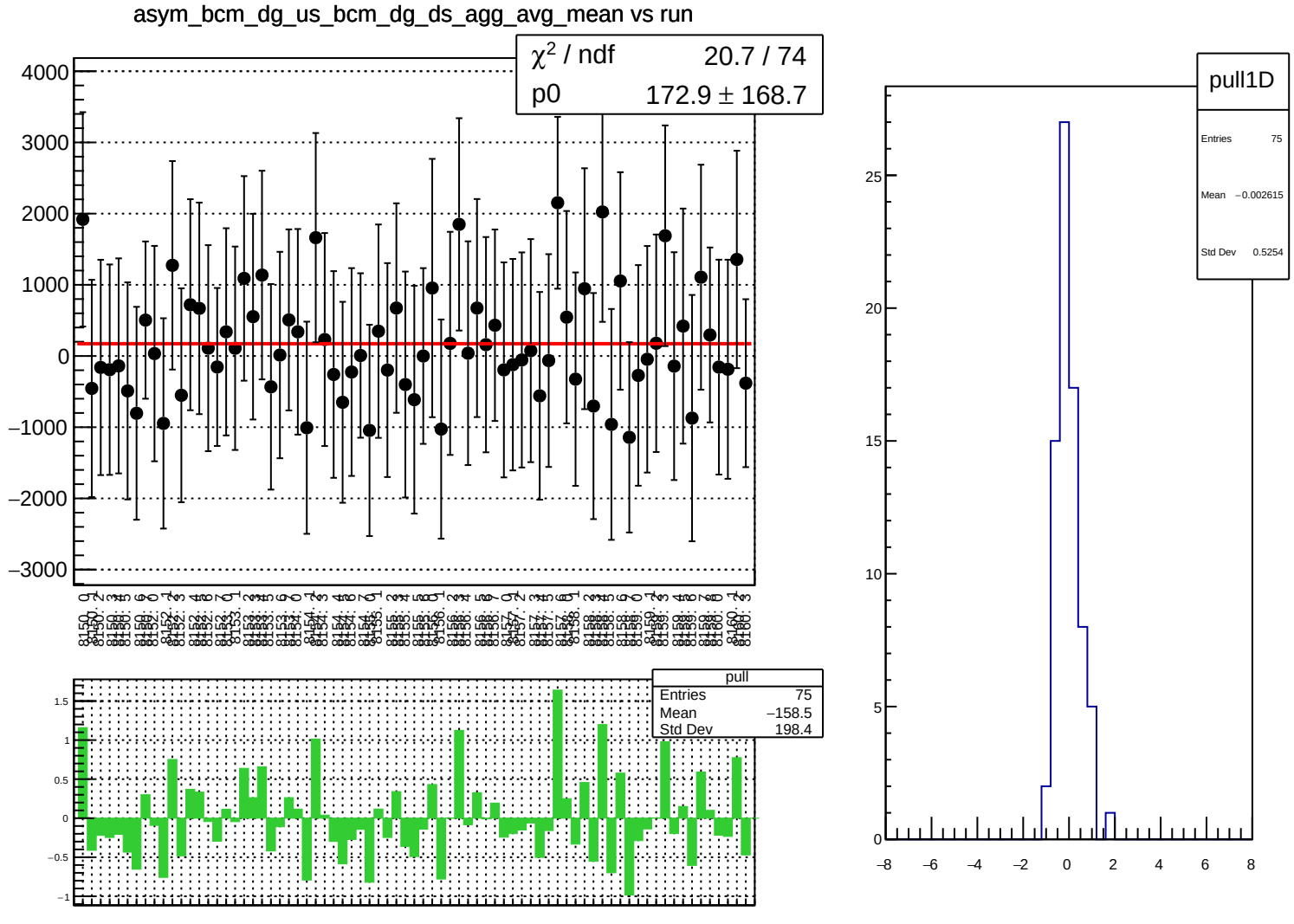

pull1D
Entries 75
Mean −0.001496
Std Dev 0.4888

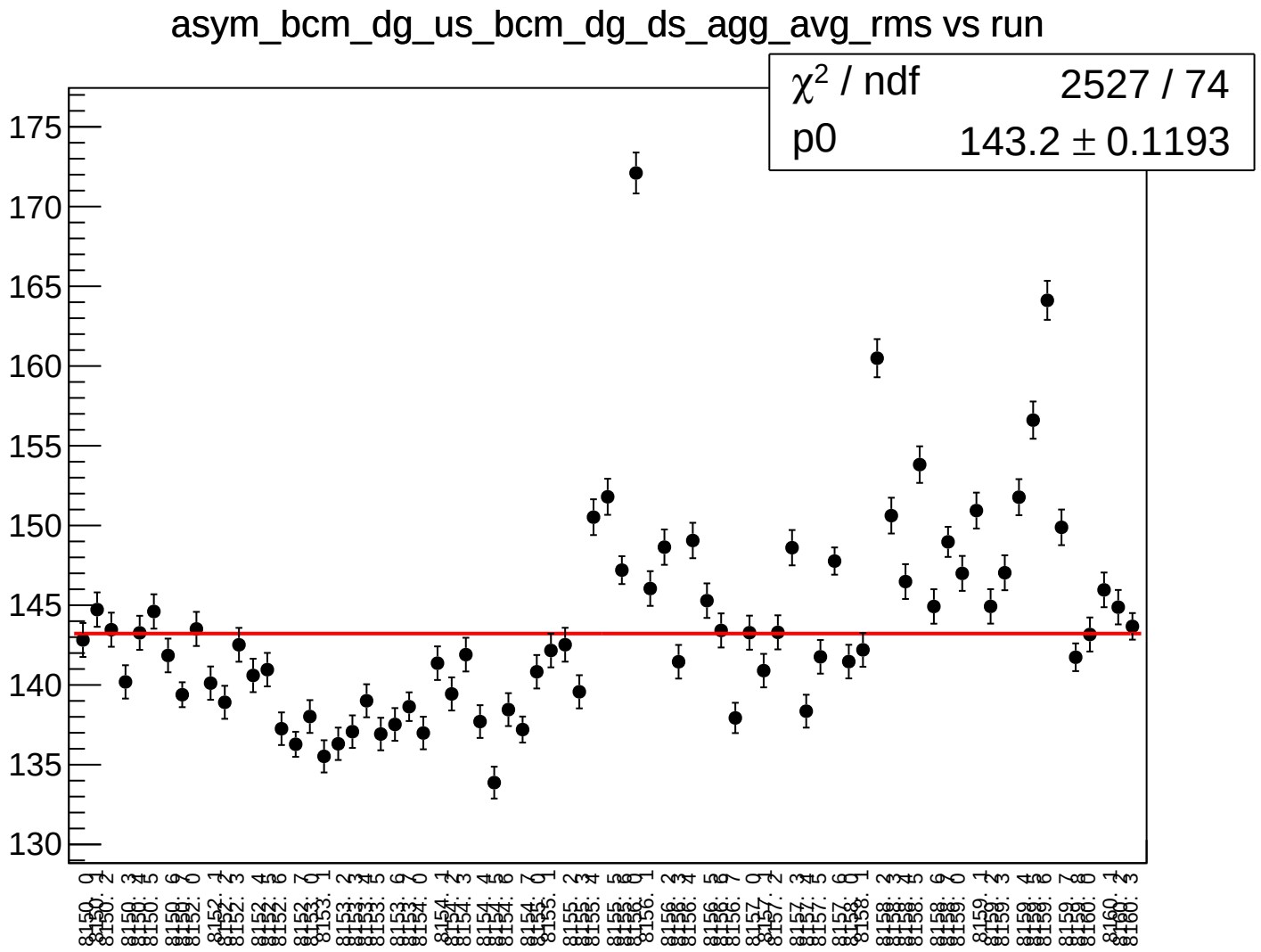

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2707 / 74
p0 142.2 ± 0.1184
175
170
165
160
155
150
145
140
135
130

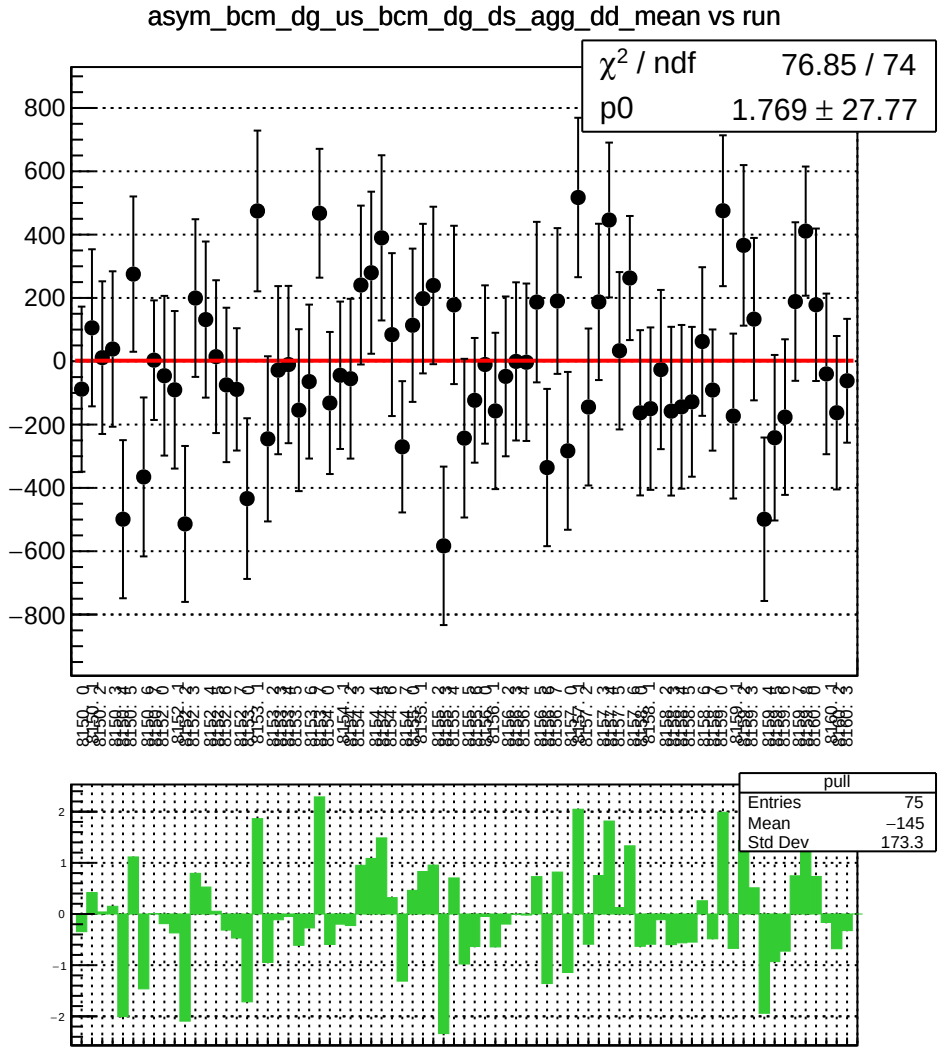

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 70.27 / 74
p0 21.95 ± 20.26
pull
Entries 75
Mean −72.38
Std Dev 105.2

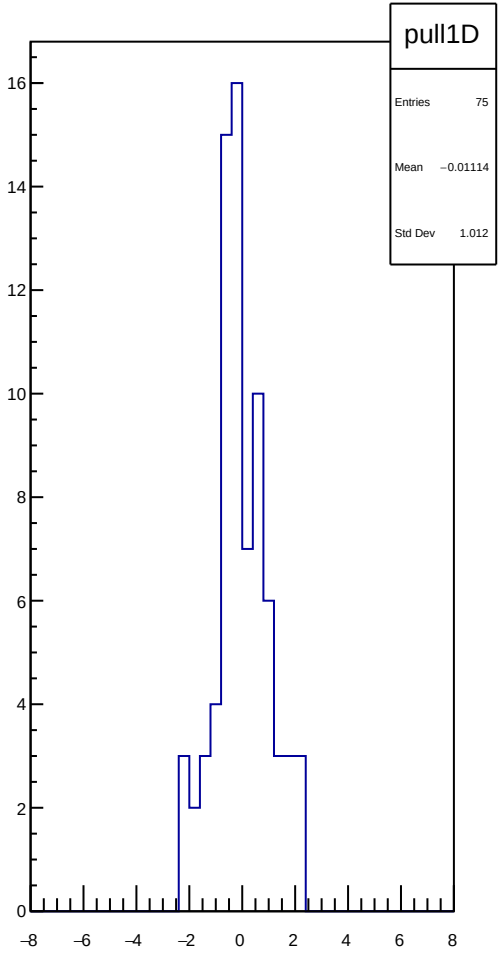

pull1D
Entries 75
Mean 0.006279
Std Dev 0.968

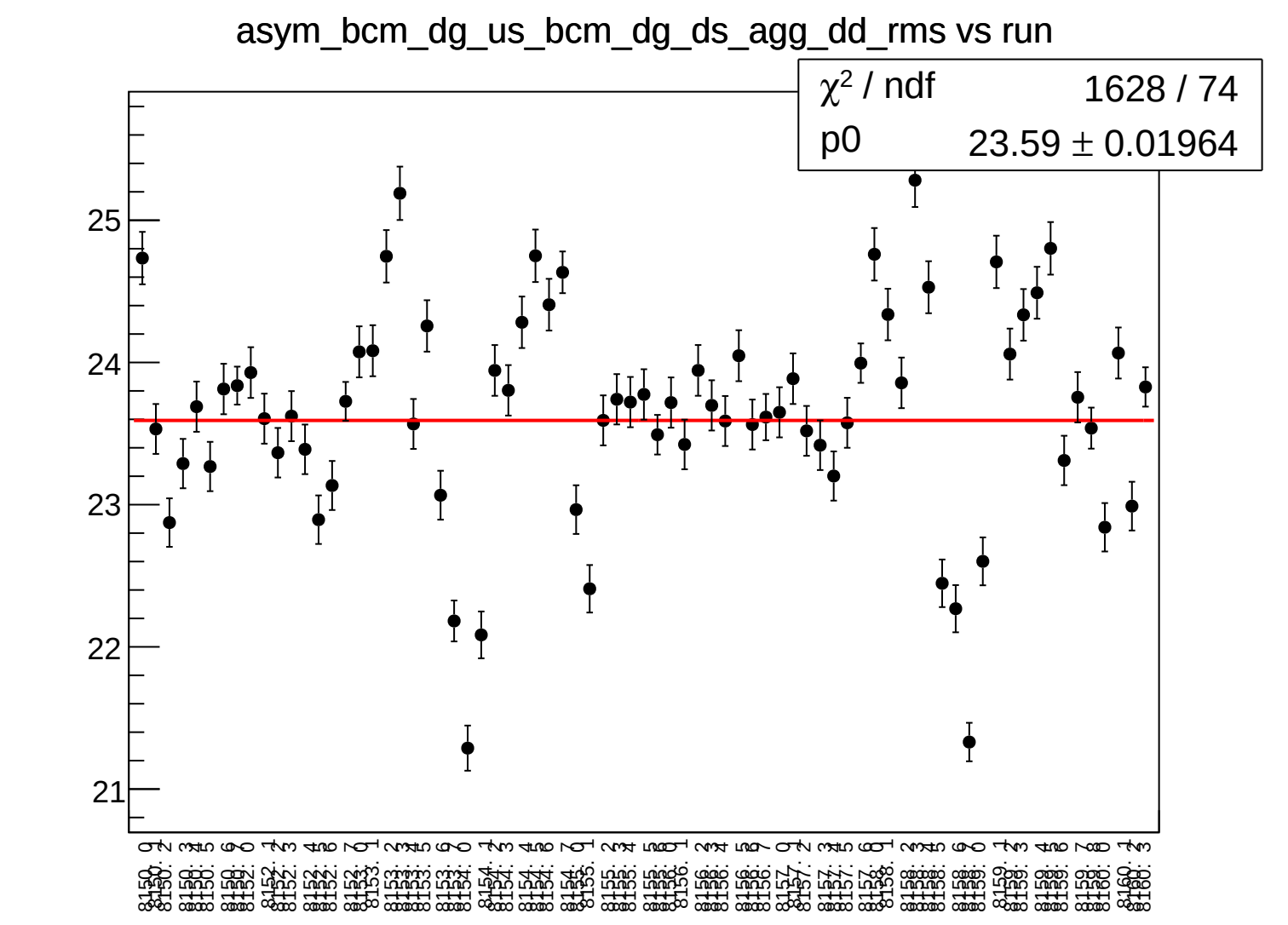

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2629 / 74
p0 17.2 ± 0.01432
19.5
19
18.5
18
17.5
17
16.5
16
15.5

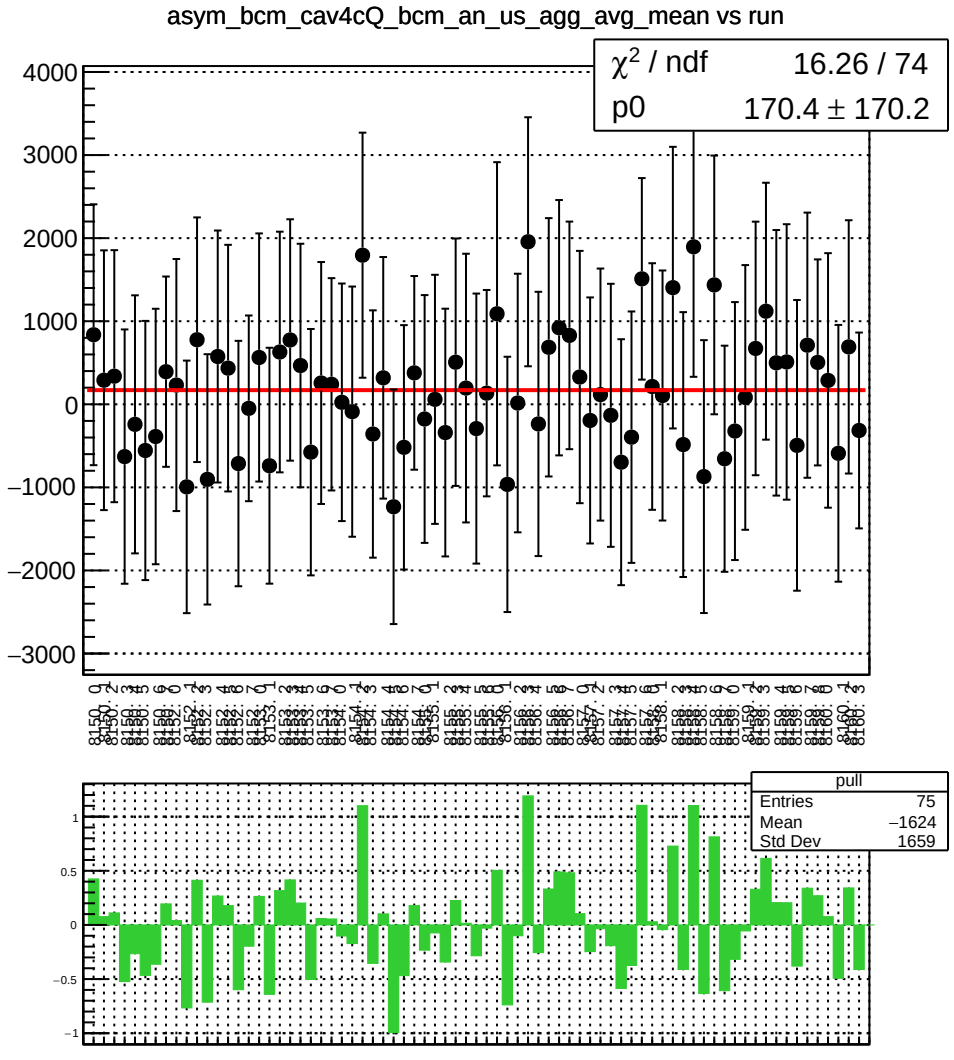

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 20.7 / 74
p0 172.9 ± 168.7
pull
Entries 75
Mean −158.5
Std Dev 198.4
pull1D
Entries 75
Mean −0.002615
Std Dev 0.5254

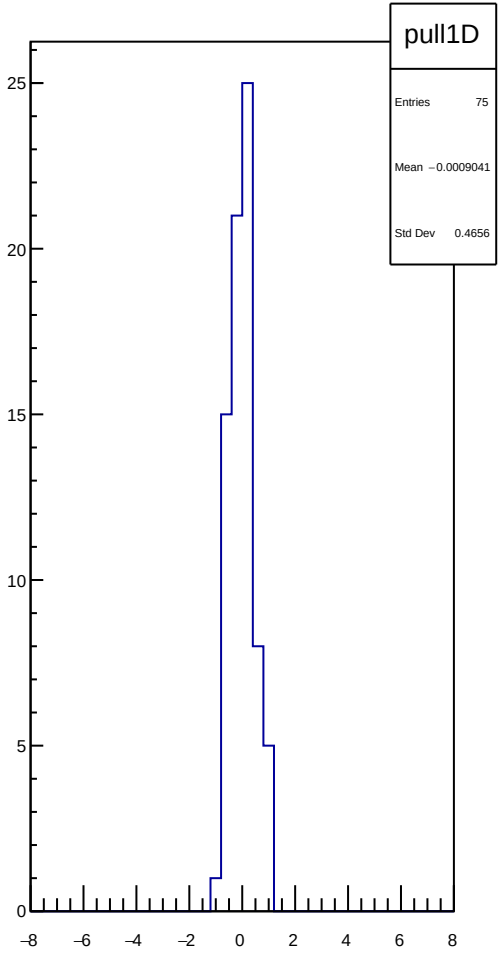

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2527 / 74
p0 143.2 ± 0.1193
175
170
165
160
155
150
145
140
135
130

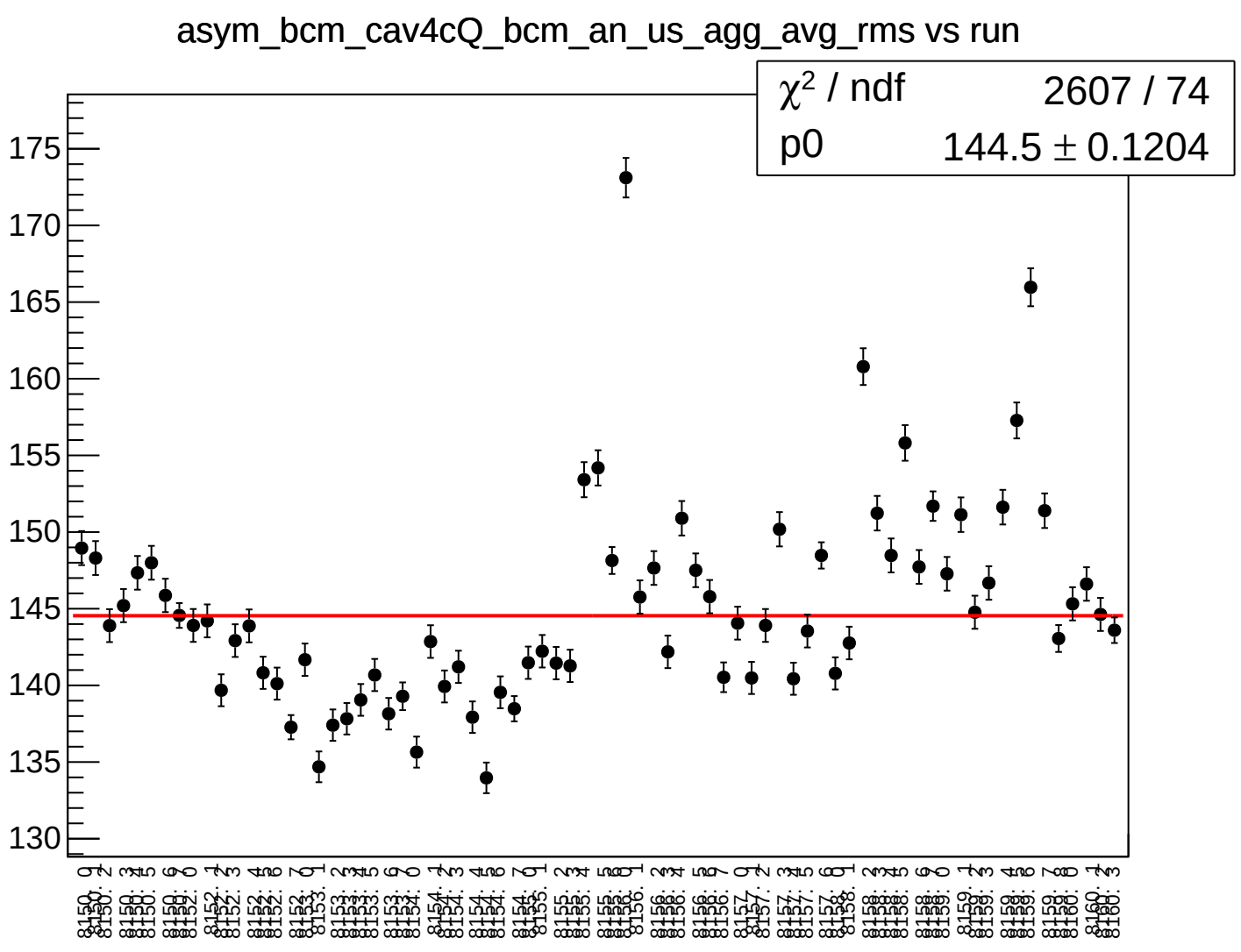

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 76.85 / 74
p0 1.769 ± 27.77
pull
Entries 75
Mean −145
Std Dev 173.3

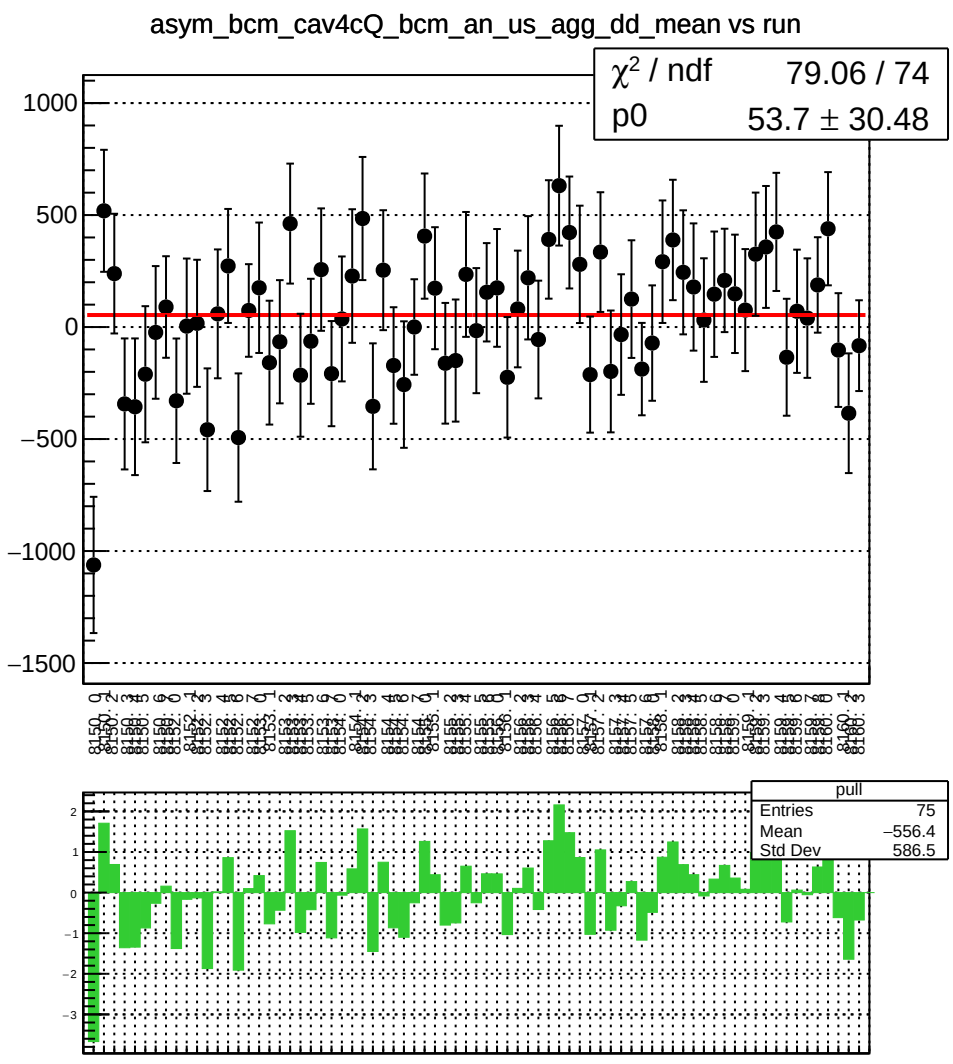

pull1D
Entries 75
Mean −0.01114
Std Dev 1.012

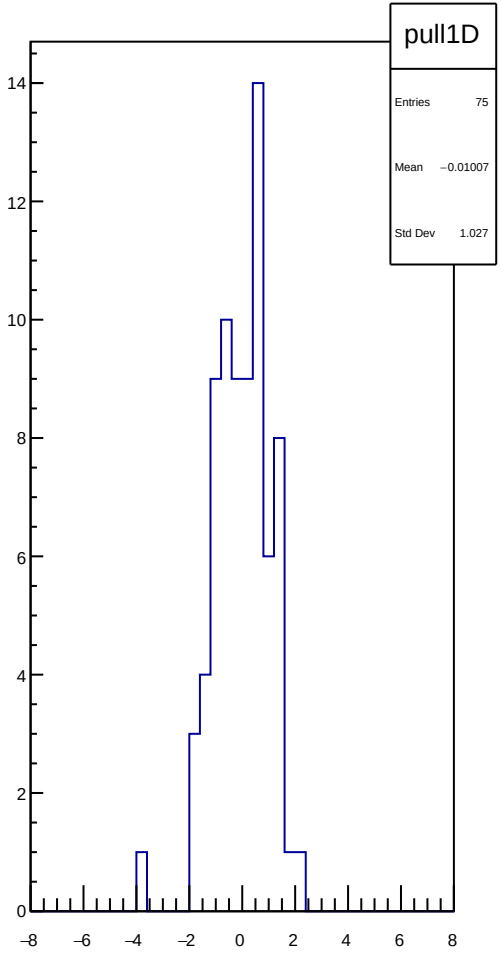

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1628 / 74
p0 23.59 ± 0.01964
25
24
23
22
21

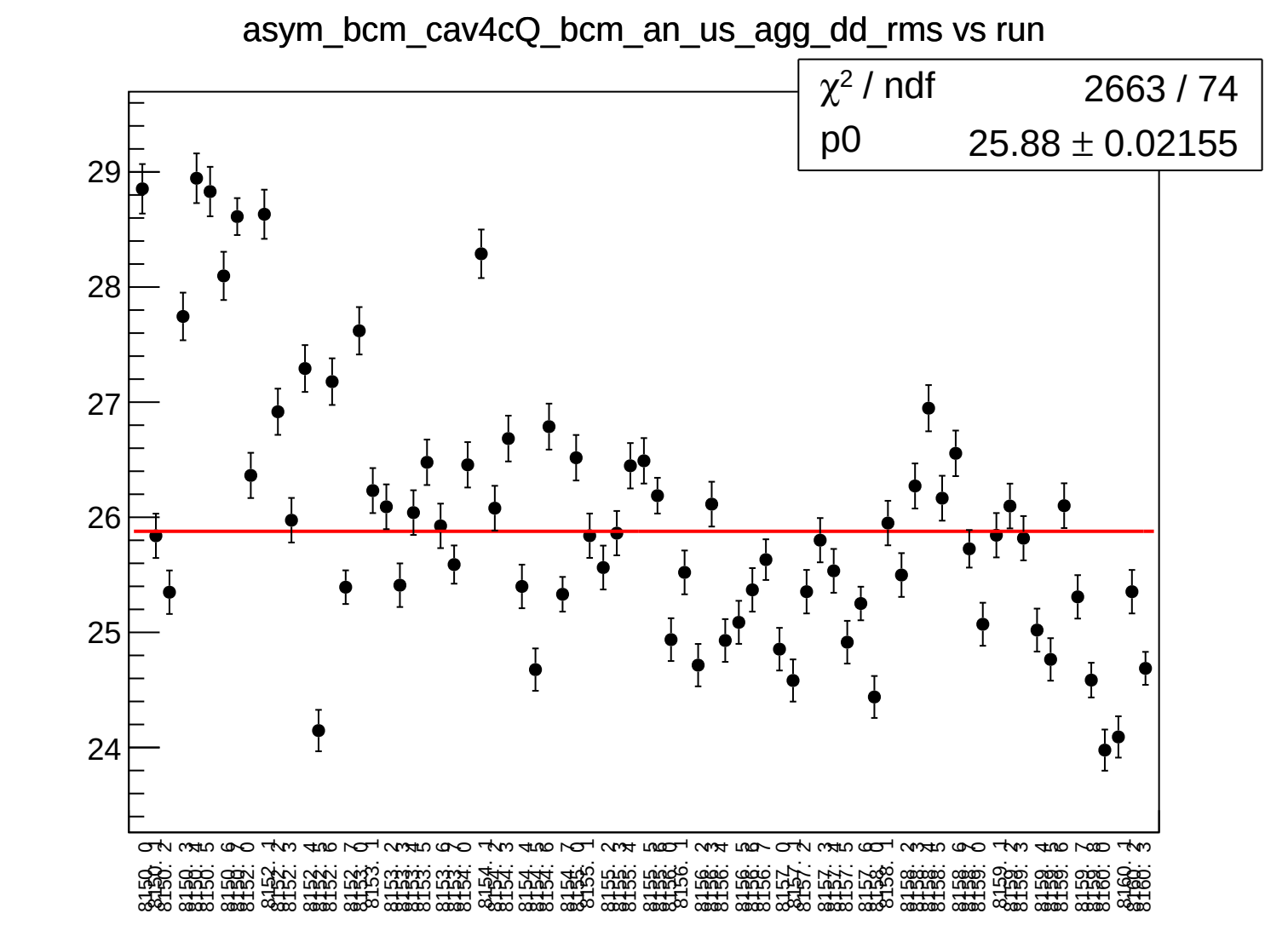

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 16.26 / 74
p0 170.4 ± 170.2
pull
Entries 75
Mean −1624
Std Dev 1659

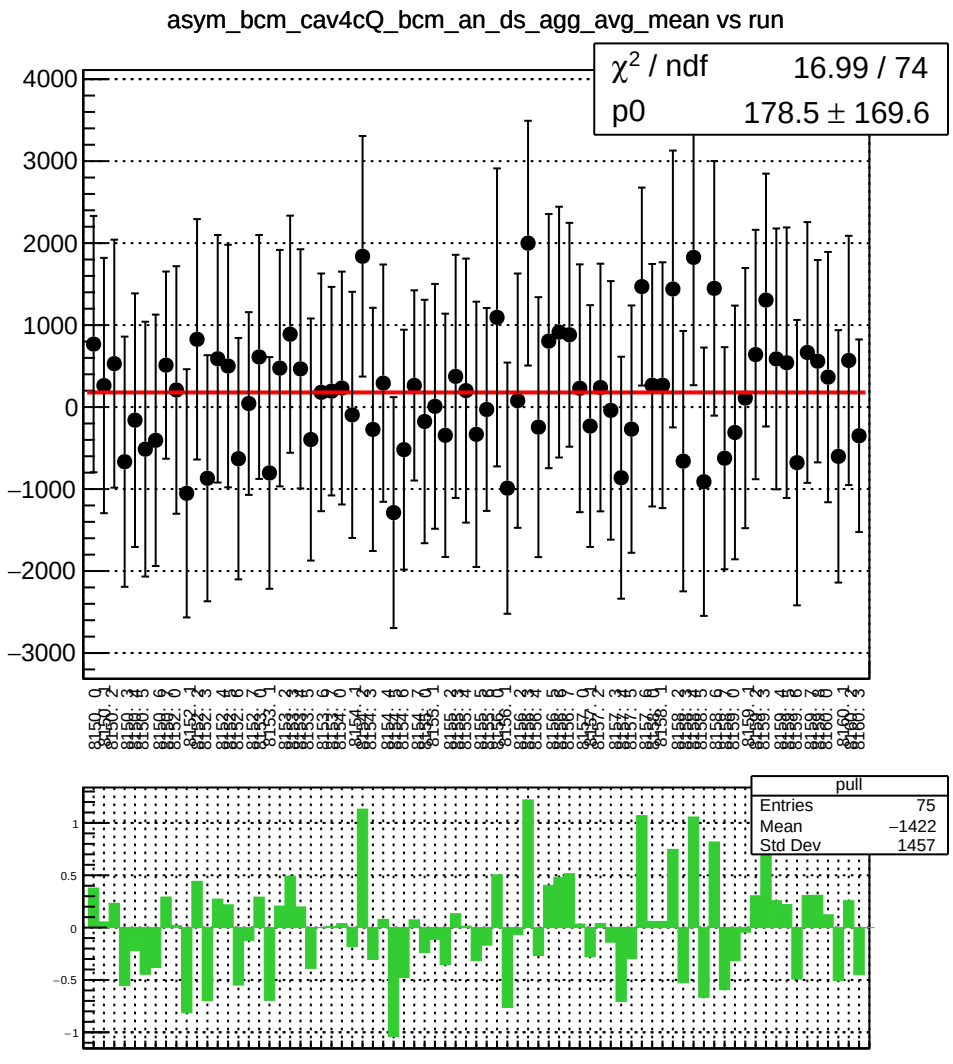

pull1D
Entries 75
Mean −0.0009041
Std Dev 0.4656

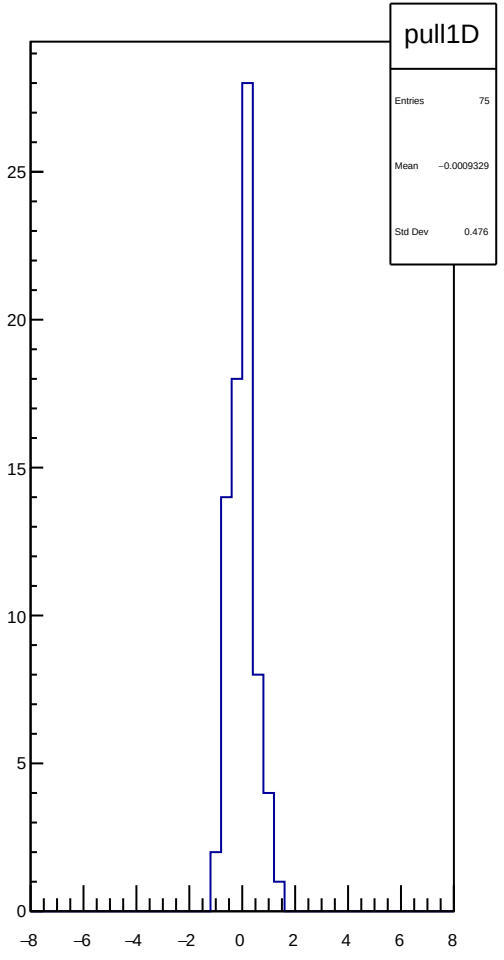

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2607 / 74
p0 144.5 ± 0.1204
175
170
165
160
155
150
145
140
135
130

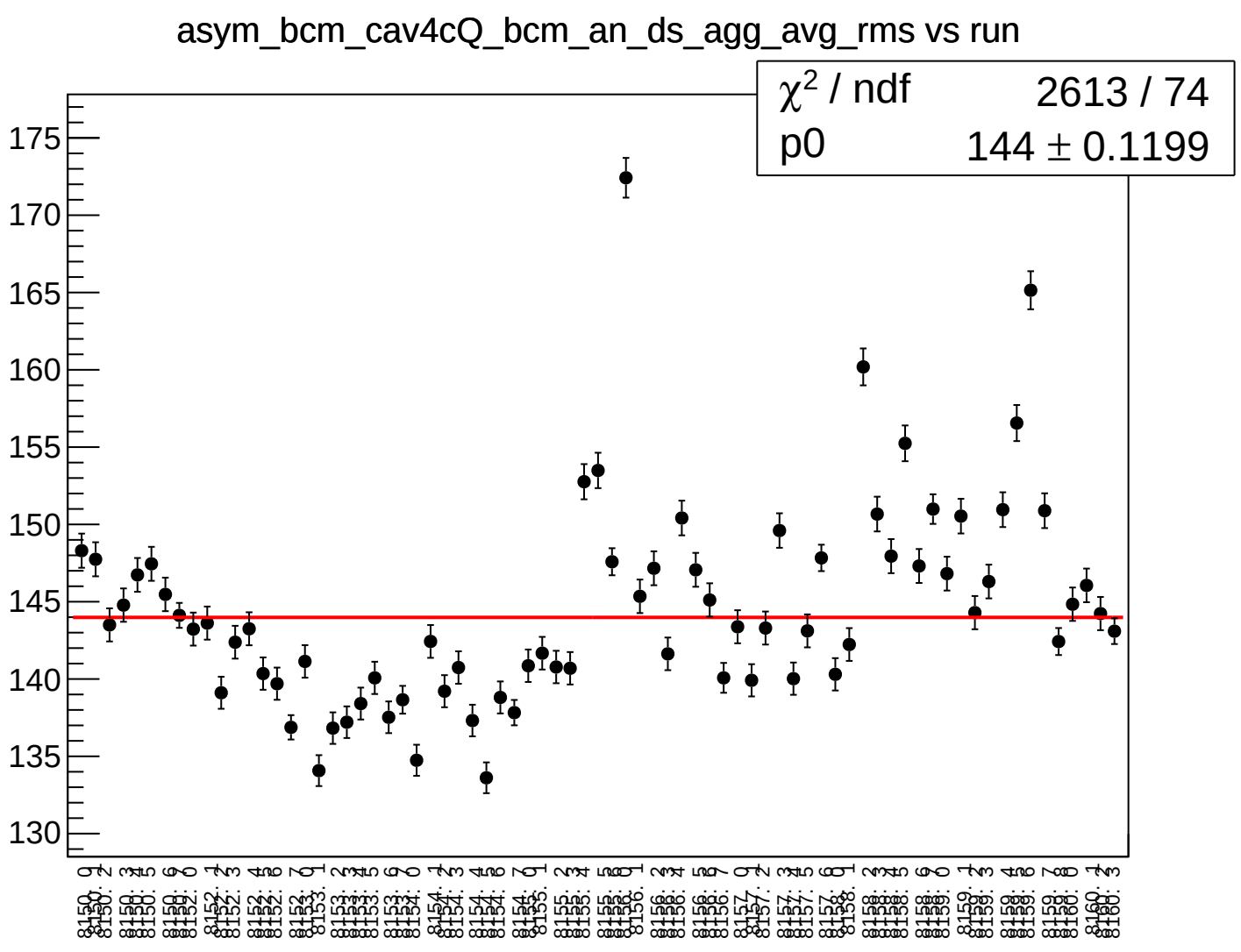

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 79.06 / 74
p0 53.7 ± 30.48
1000
500
0
−500
−1000
−1500
pull
Entries 75
Mean −556.4
Std Dev 586.5
2
1
0
−1
−2
−3

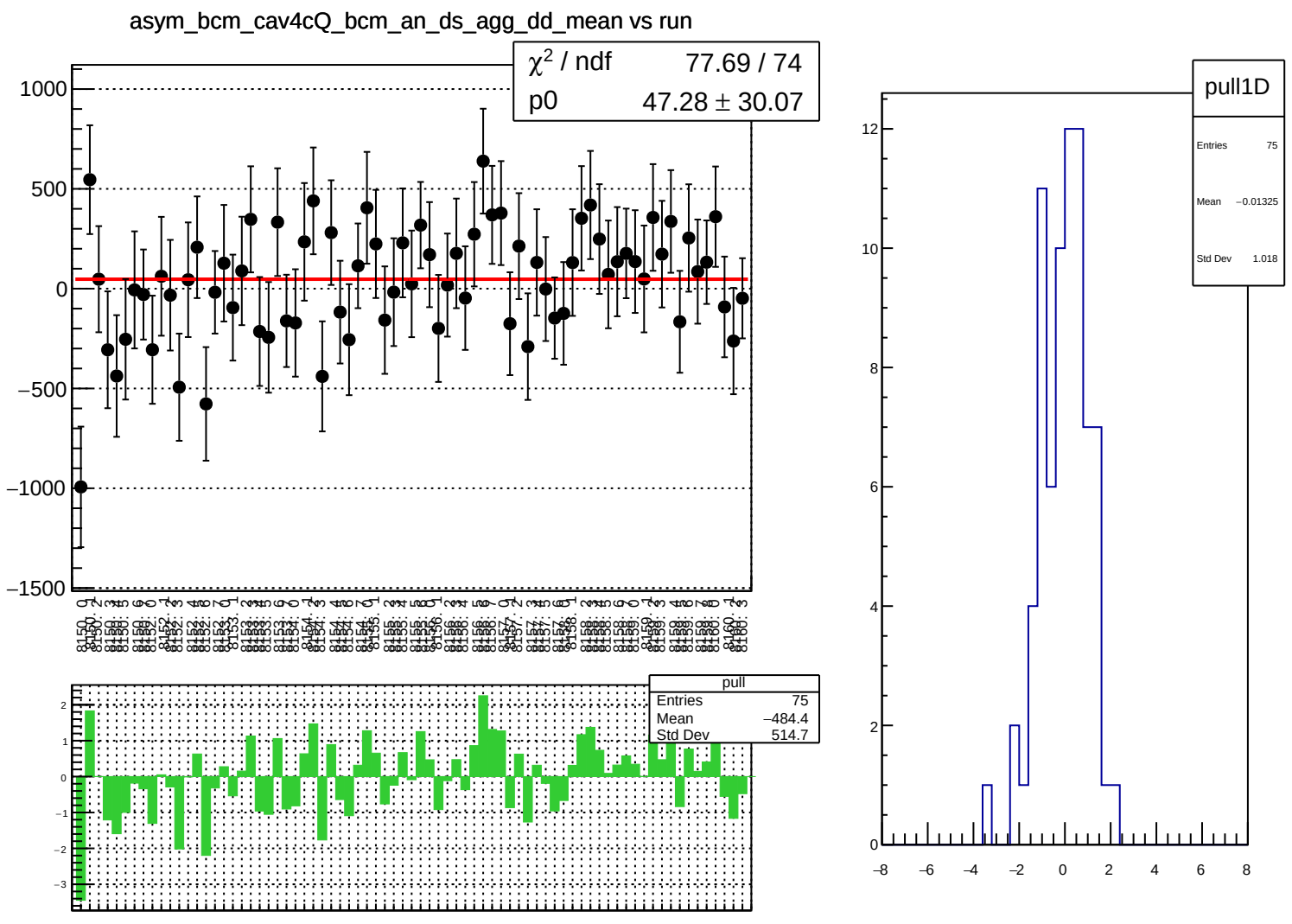

pull1D
Entries 75
Mean −0.01007
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

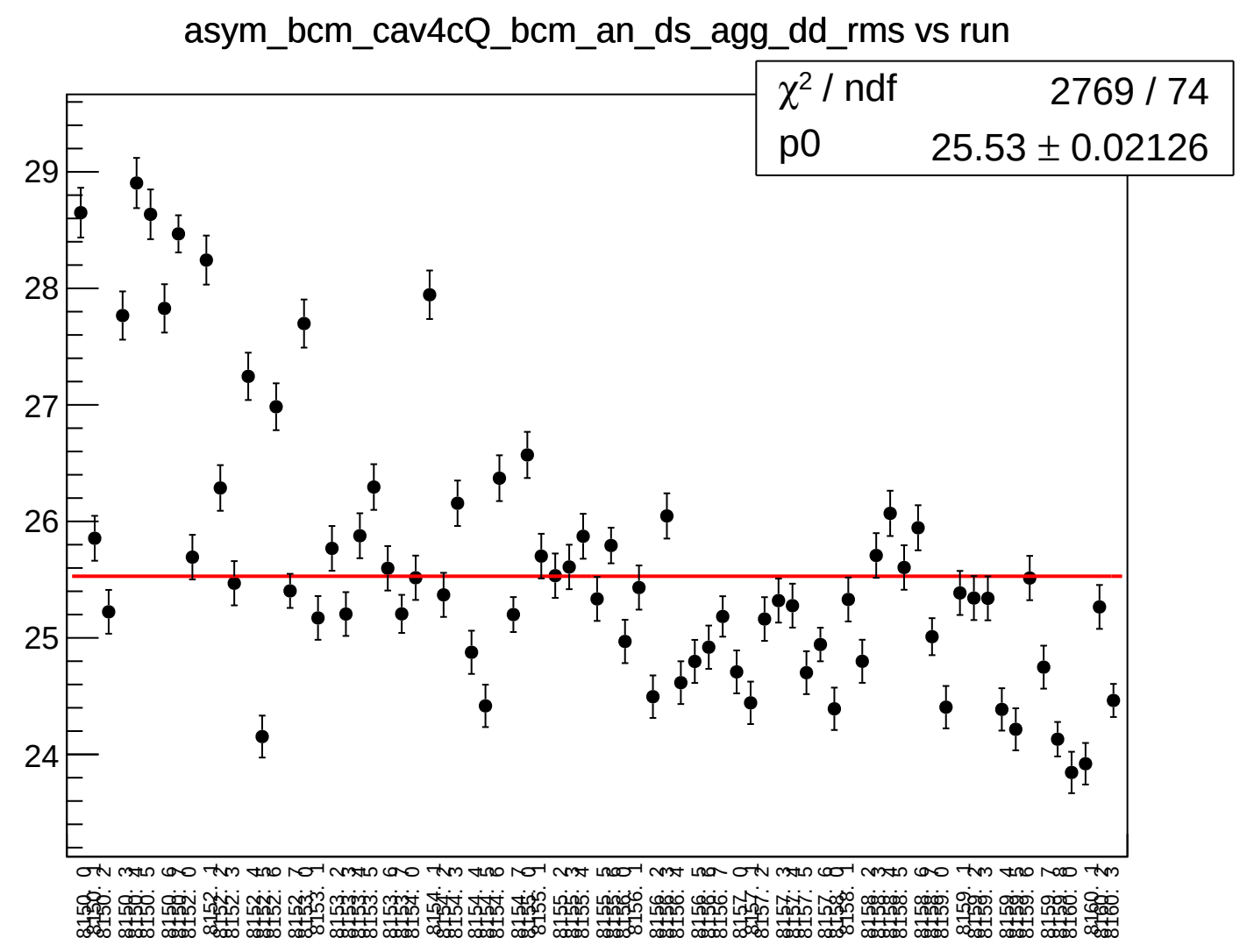

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2663 / 74
p0 25.88 ± 0.02155
29
28
27
26
25
24

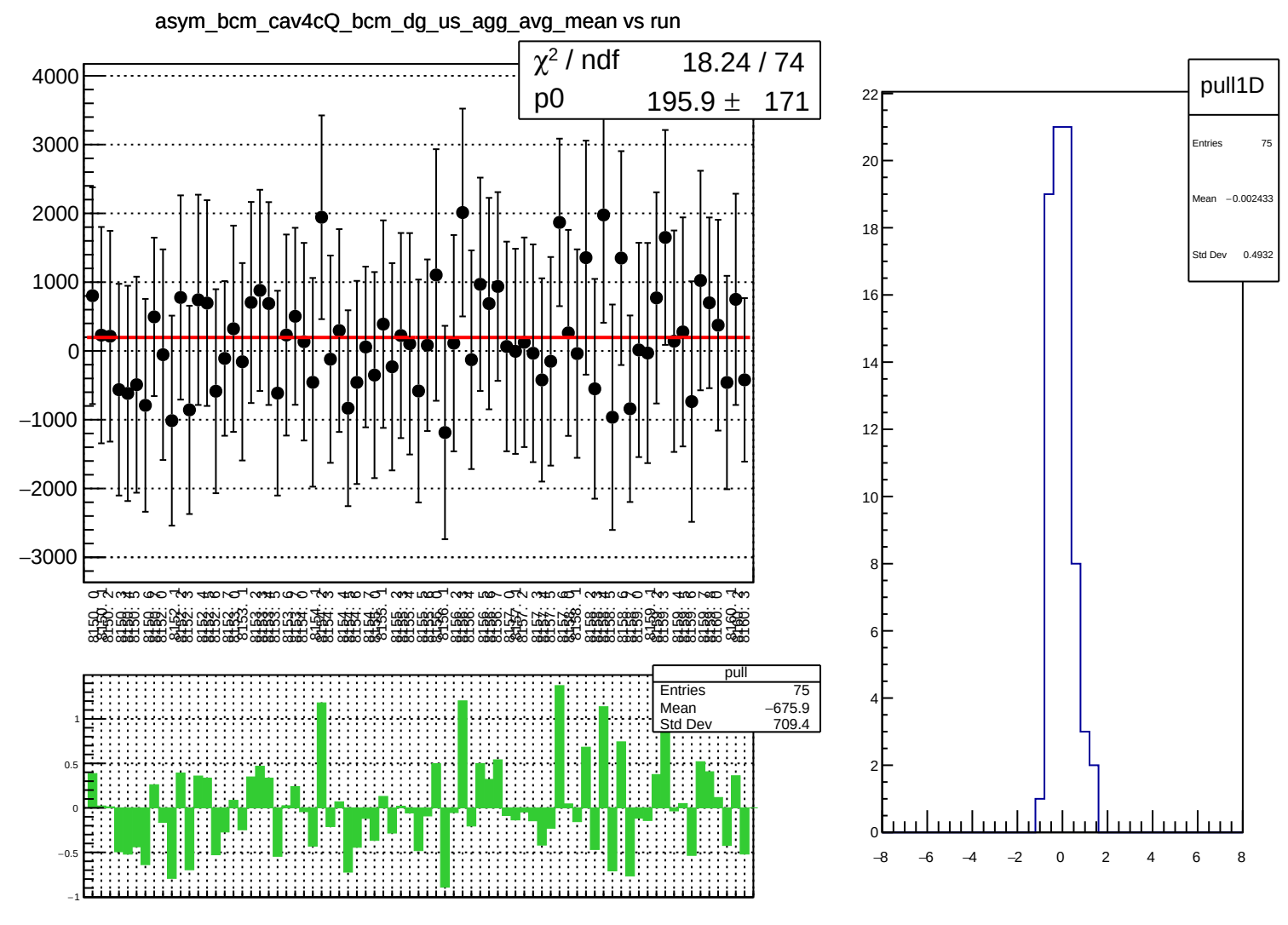

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 16.99 / 74
p0 178.5 ± 169.6
pull
Entries 75
Mean −1422
Std Dev 1457

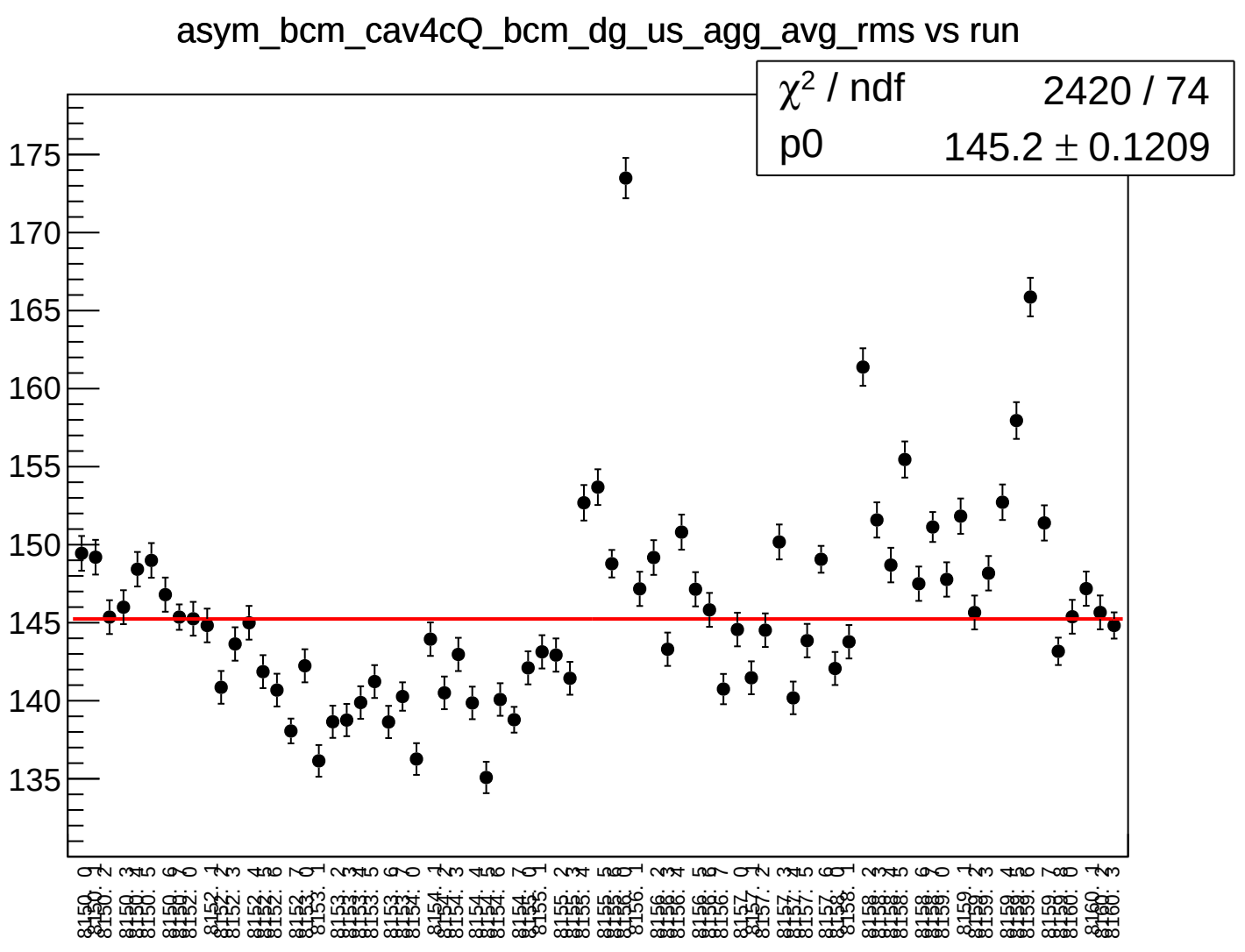

pull1D
Entries 75
Mean −0.0009329
Std Dev 0.476

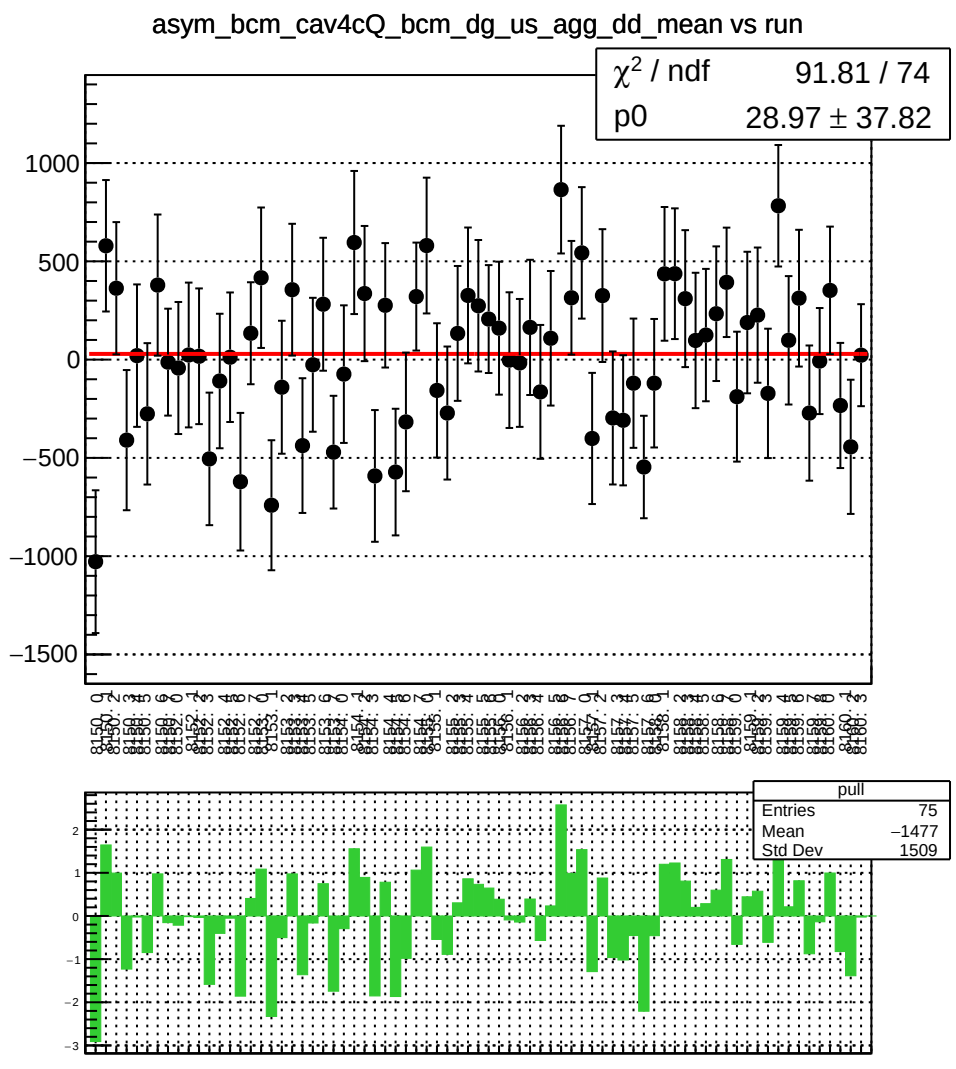

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2613 / 74
p0 144 ± 0.1199
175
170
165
160
155
150
145
140
135
130

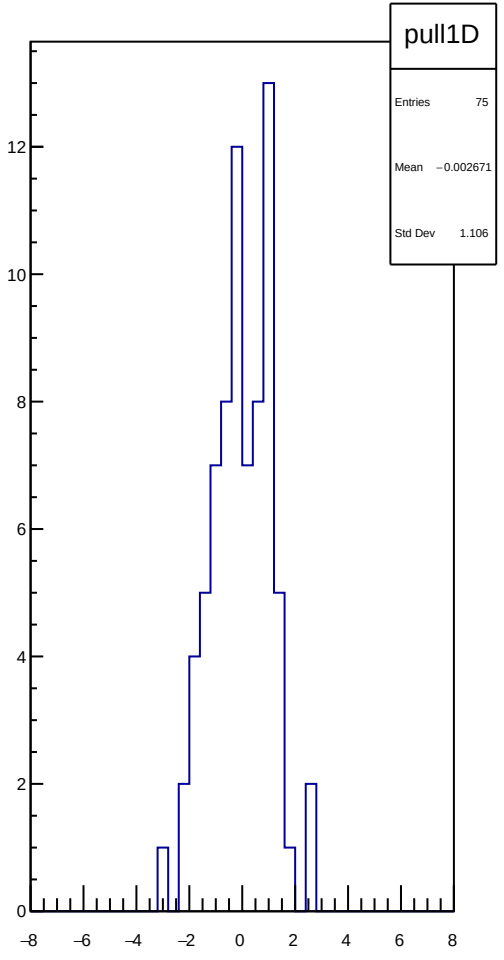

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 77.69 / 74
p0 47.28 ± 30.07
pull
Entries 75
Mean −484.4
Std Dev 514.7
pull1D
Entries 75
Mean −0.01325
Std Dev 1.018

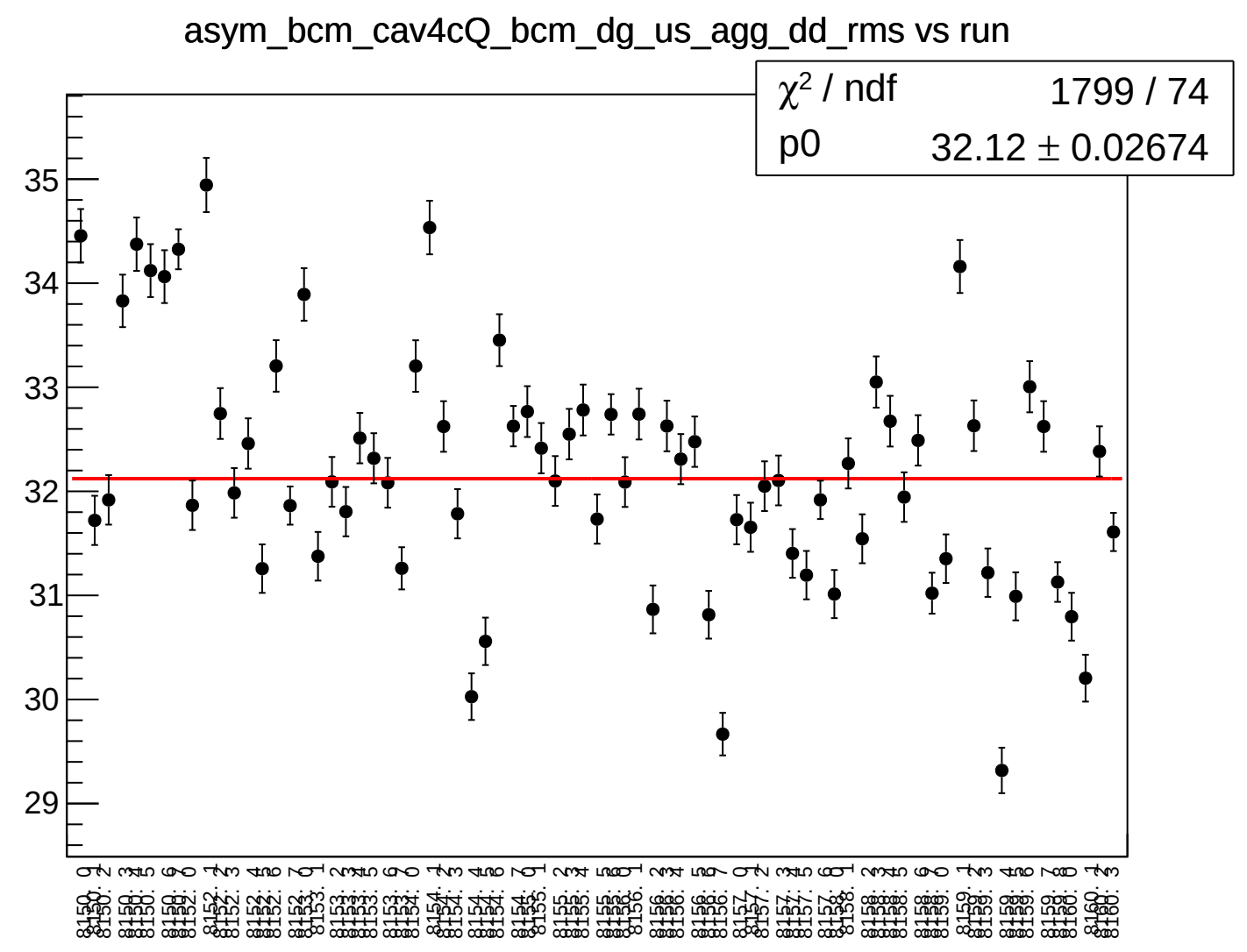

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2769 / 74
p0 25.53 ± 0.02126
29
28
27
26
25
24

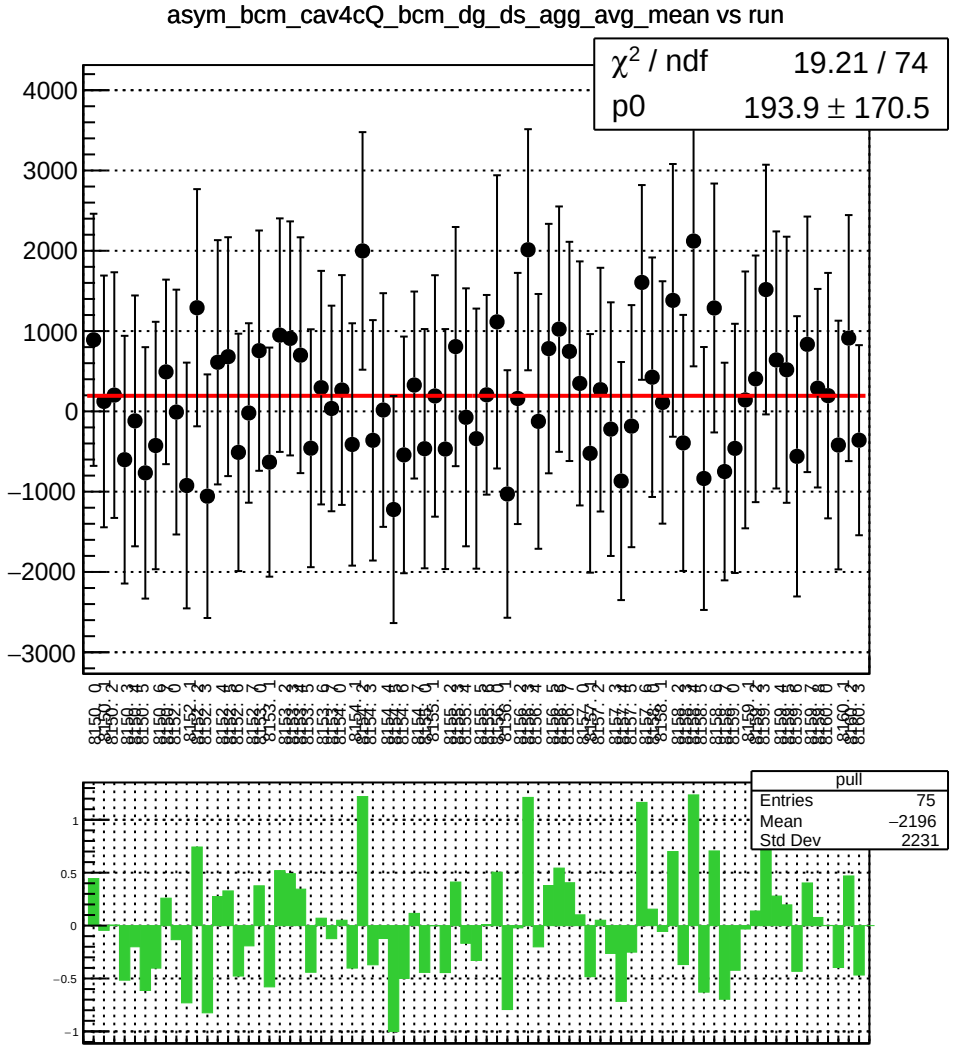

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 18.24 / 74
p0 195.9 ± 171
pull
Entries 75
Mean −675.9
Std Dev 709.4
pull1D
Entries 75
Mean −0.002433
Std Dev 0.4932

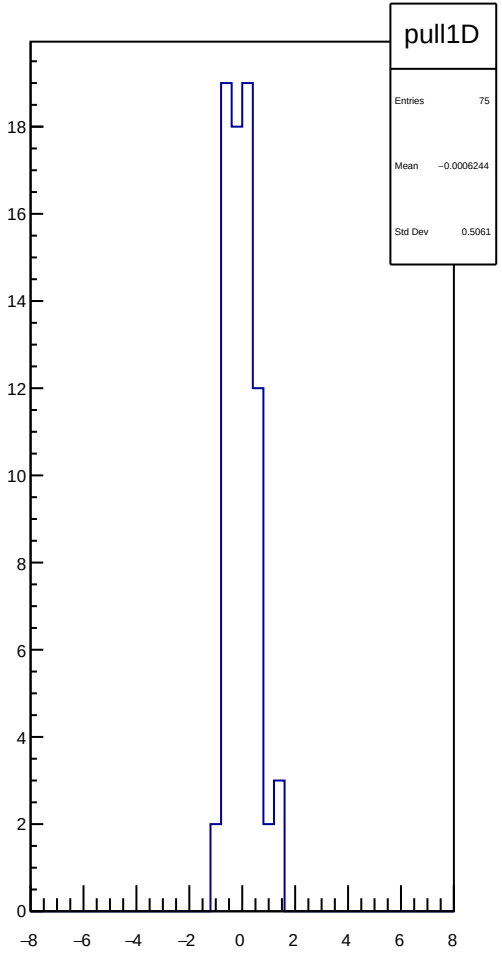

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2420 / 74
p0 145.2 ± 0.1209
175
170
165
160
155
150
145
140
135

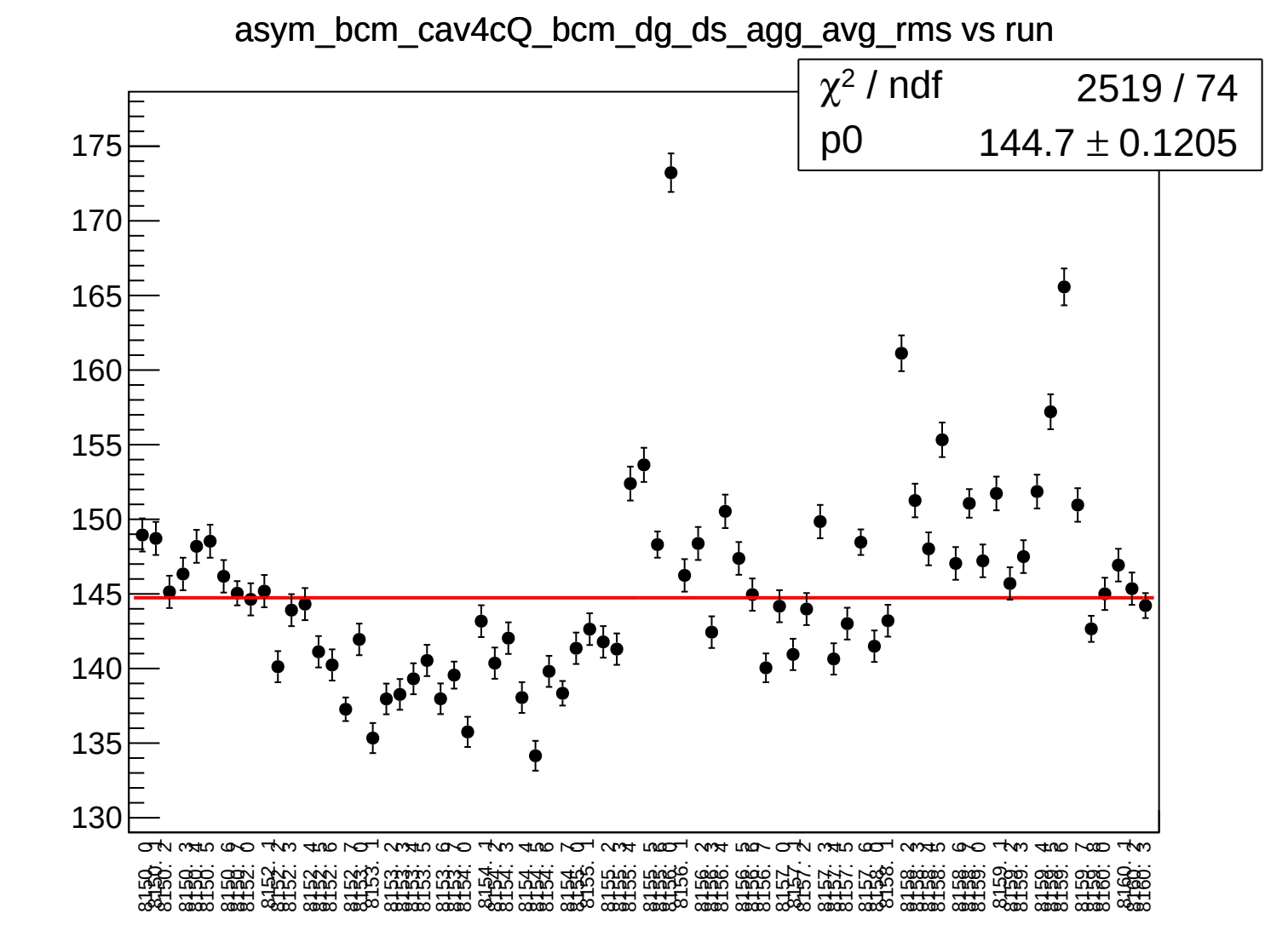

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 91.81 / 74
p0 28.97 ± 37.82
pull
Entries 75
Mean −1477
Std Dev 1509

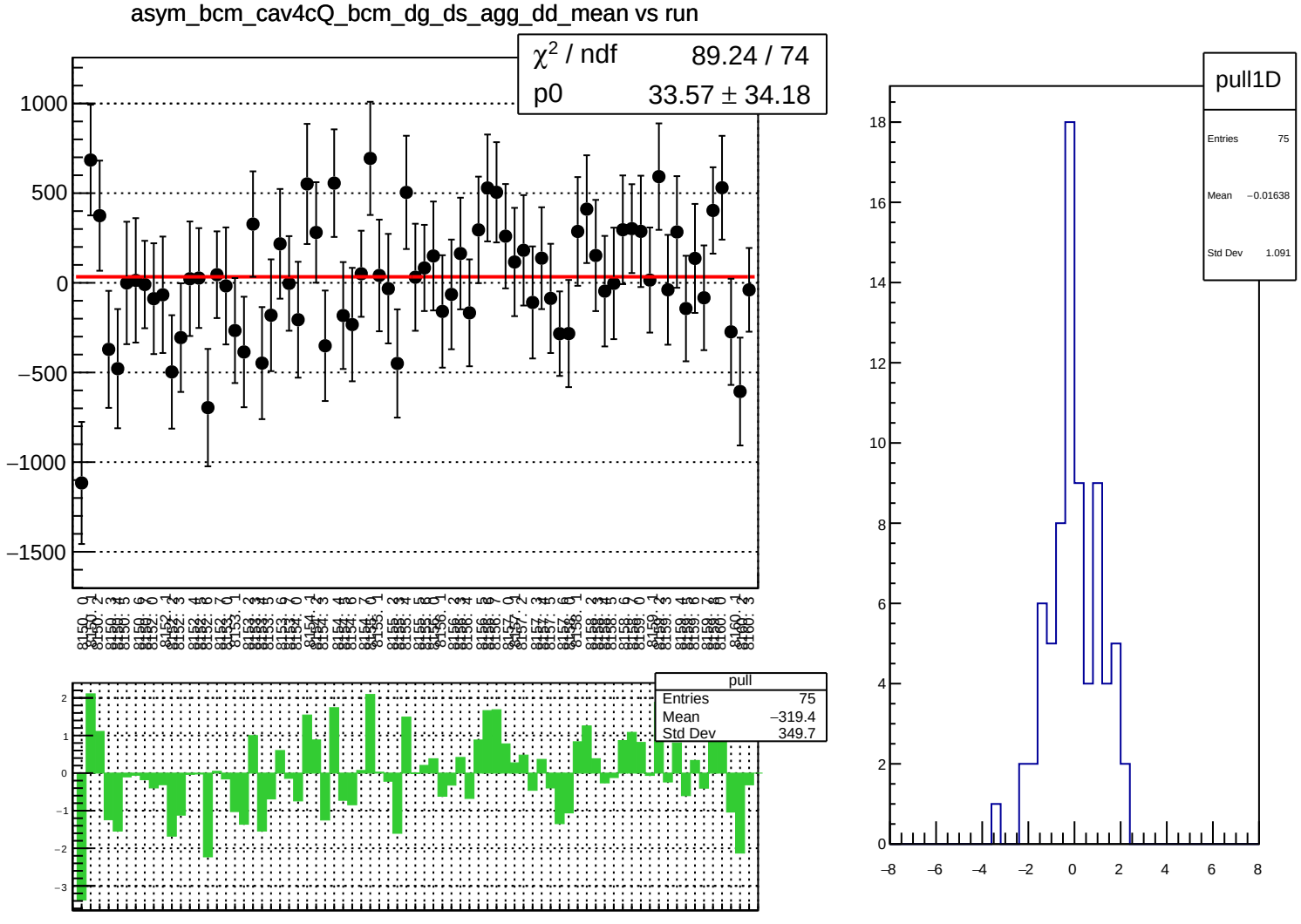

pull1D
Entries 75
Mean −0.002671
Std Dev 1.106

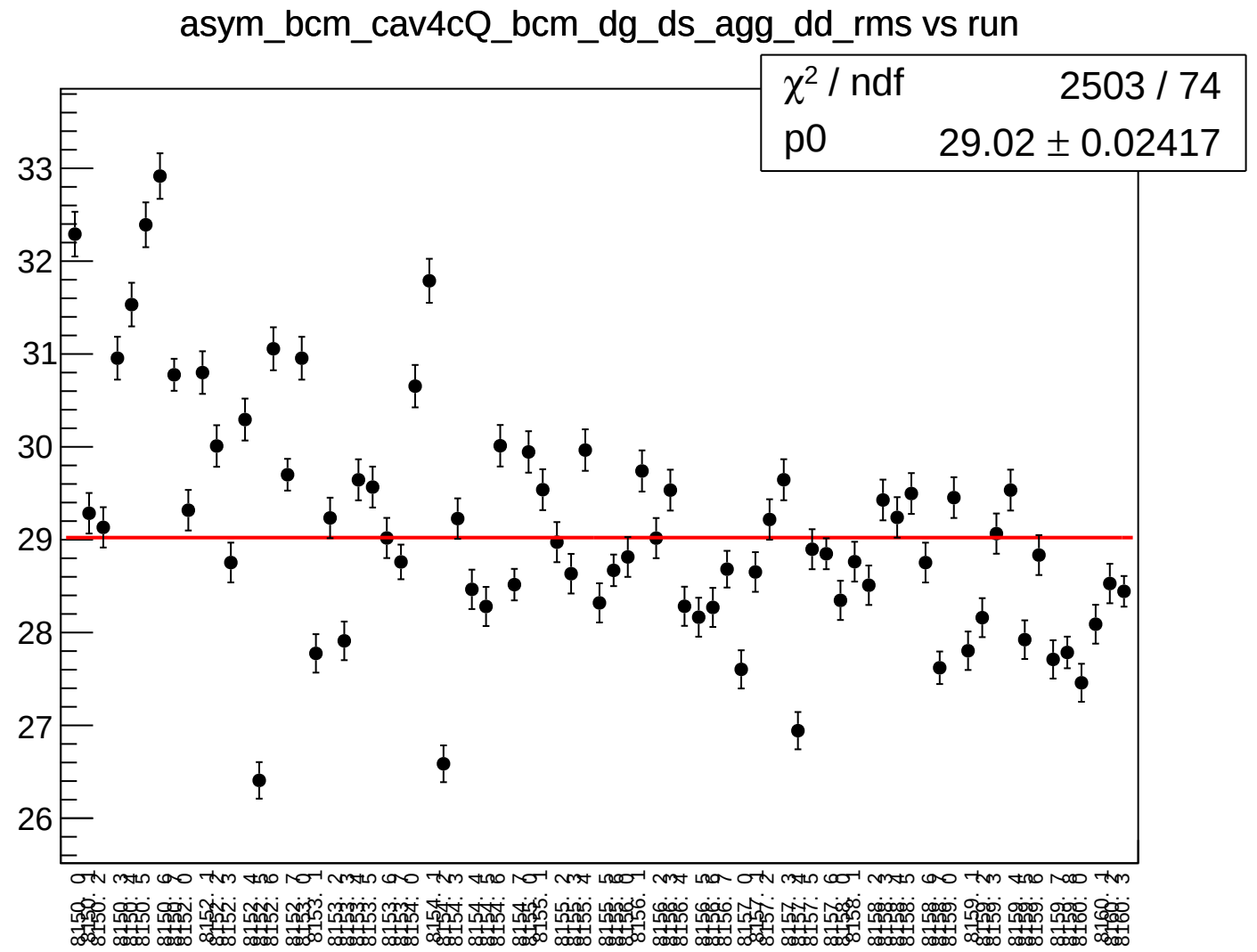

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1799 / 74
p0 32.12 ± 0.02674
35
34
33
32
31
30
29

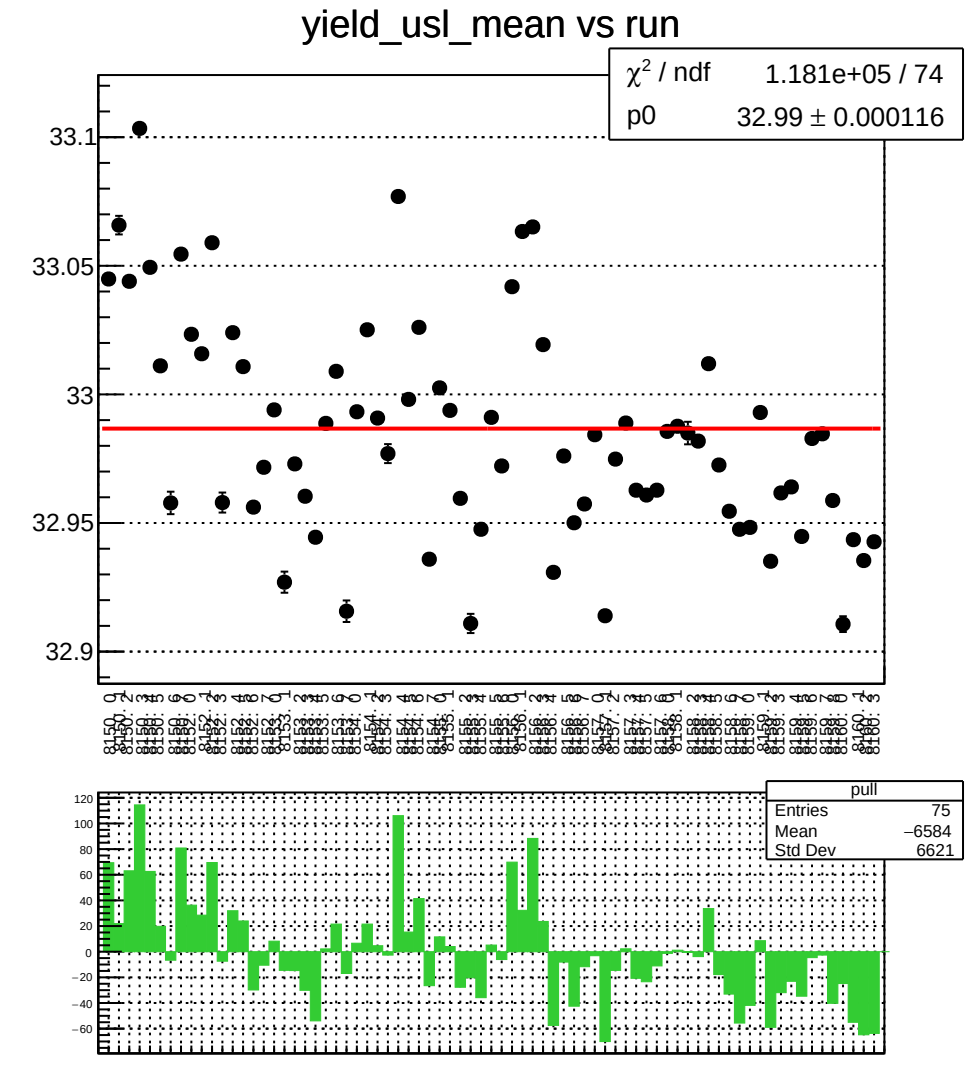

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 19.21 / 74
p0 193.9 ± 170.5
pull
Entries 75
Mean −2196
Std Dev 2231

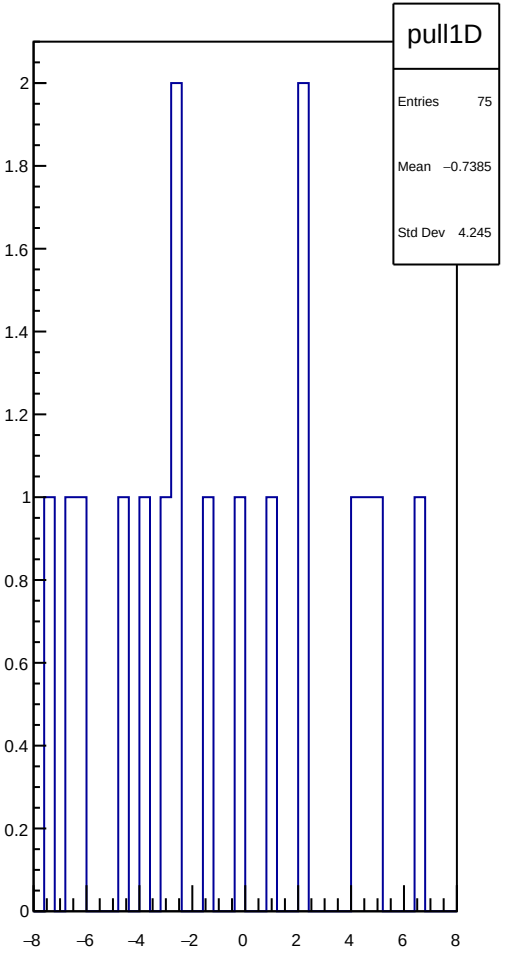

pull1D
Entries 75
Mean −0.0006244
Std Dev 0.5061

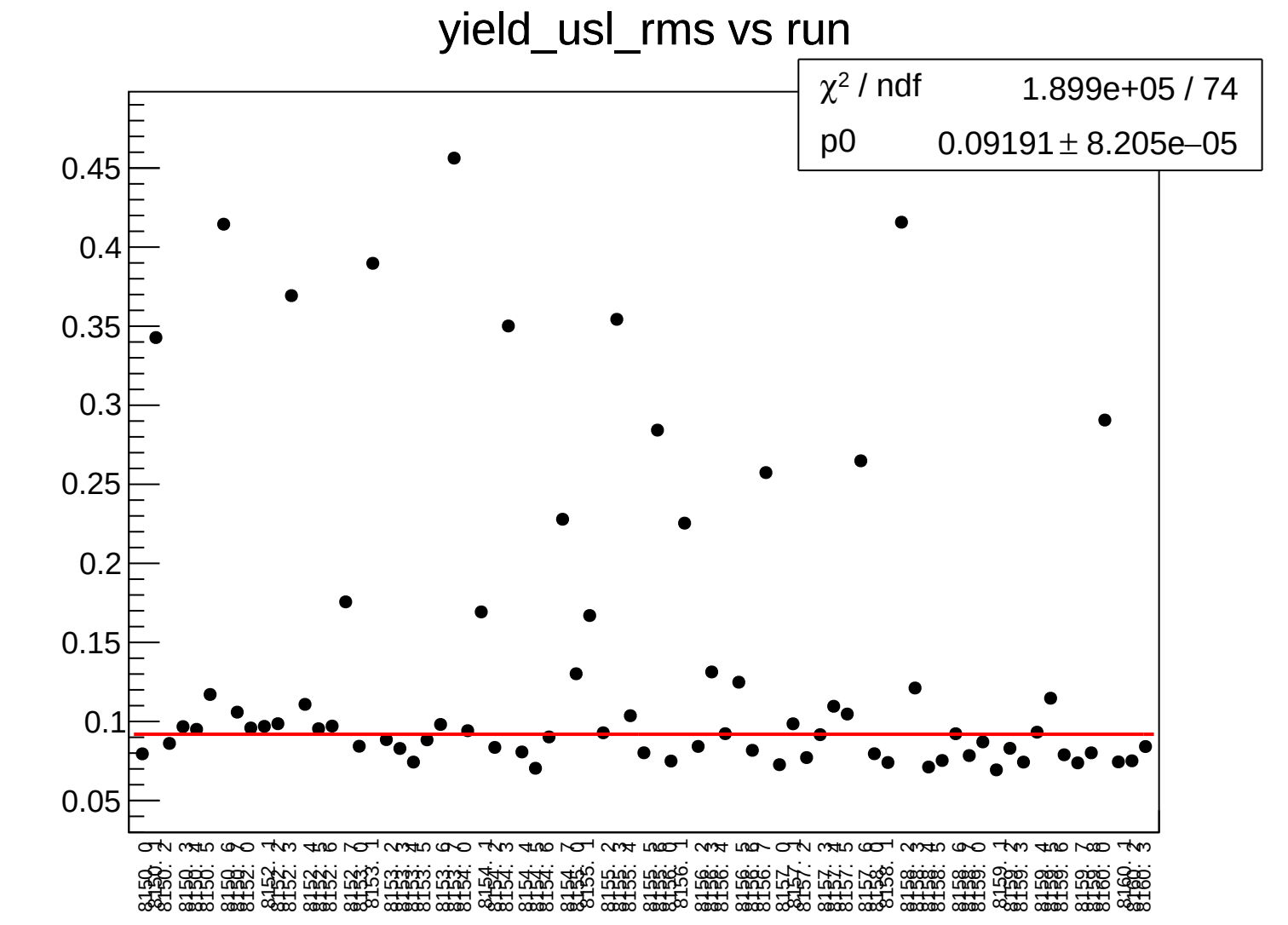

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2519 / 74
p0 144.7 ± 0.1205
175
170
165
160
155
150
145
140
135
130

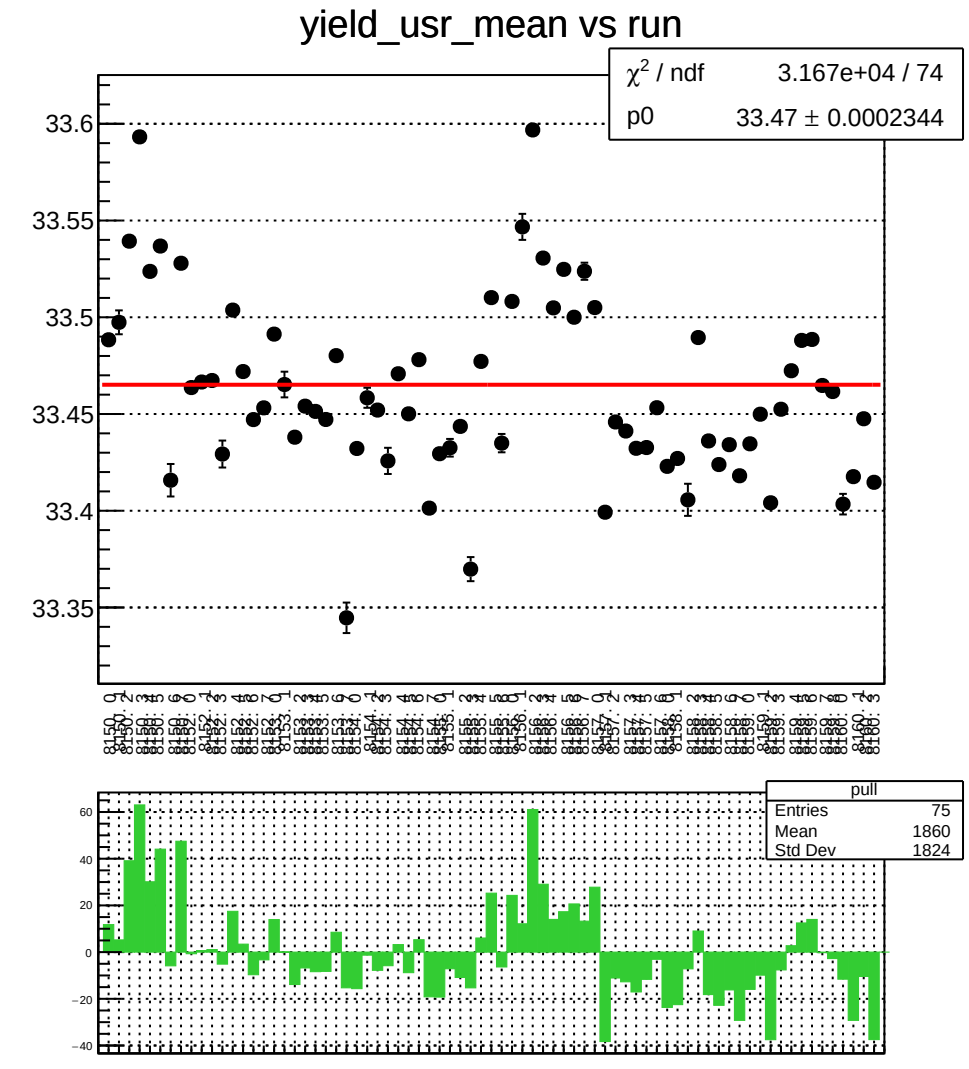

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 89.24 / 74
p0 33.57 ± 34.18
1000
500
0
−500
−1000
−1500
pull
Entries 75
Mean −319.4
Std Dev 349.7
2
1
0
−1
−2
−3
pull1D
Entries 75
Mean −0.01638
Std Dev 1.091
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

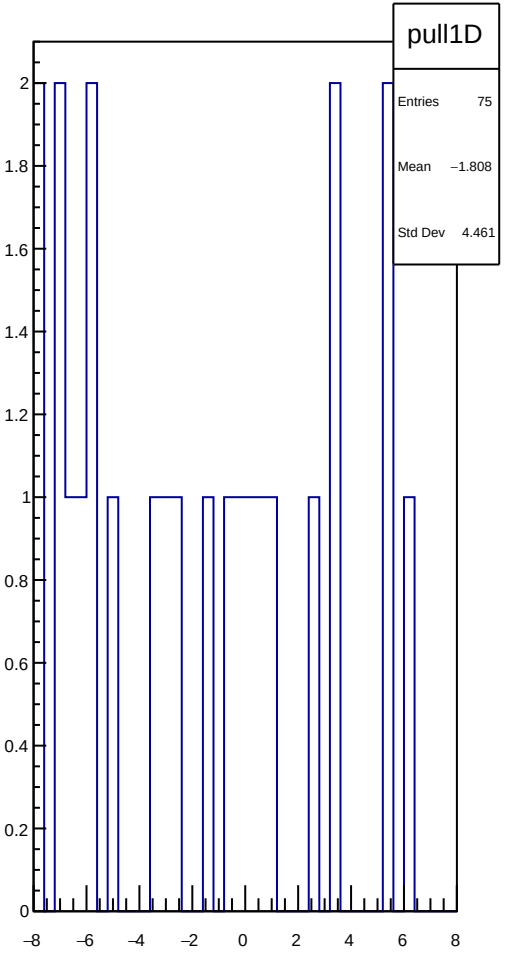

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2503 / 74
p0 29.02 ± 0.02417
33
32
31
30
29
28
27
26

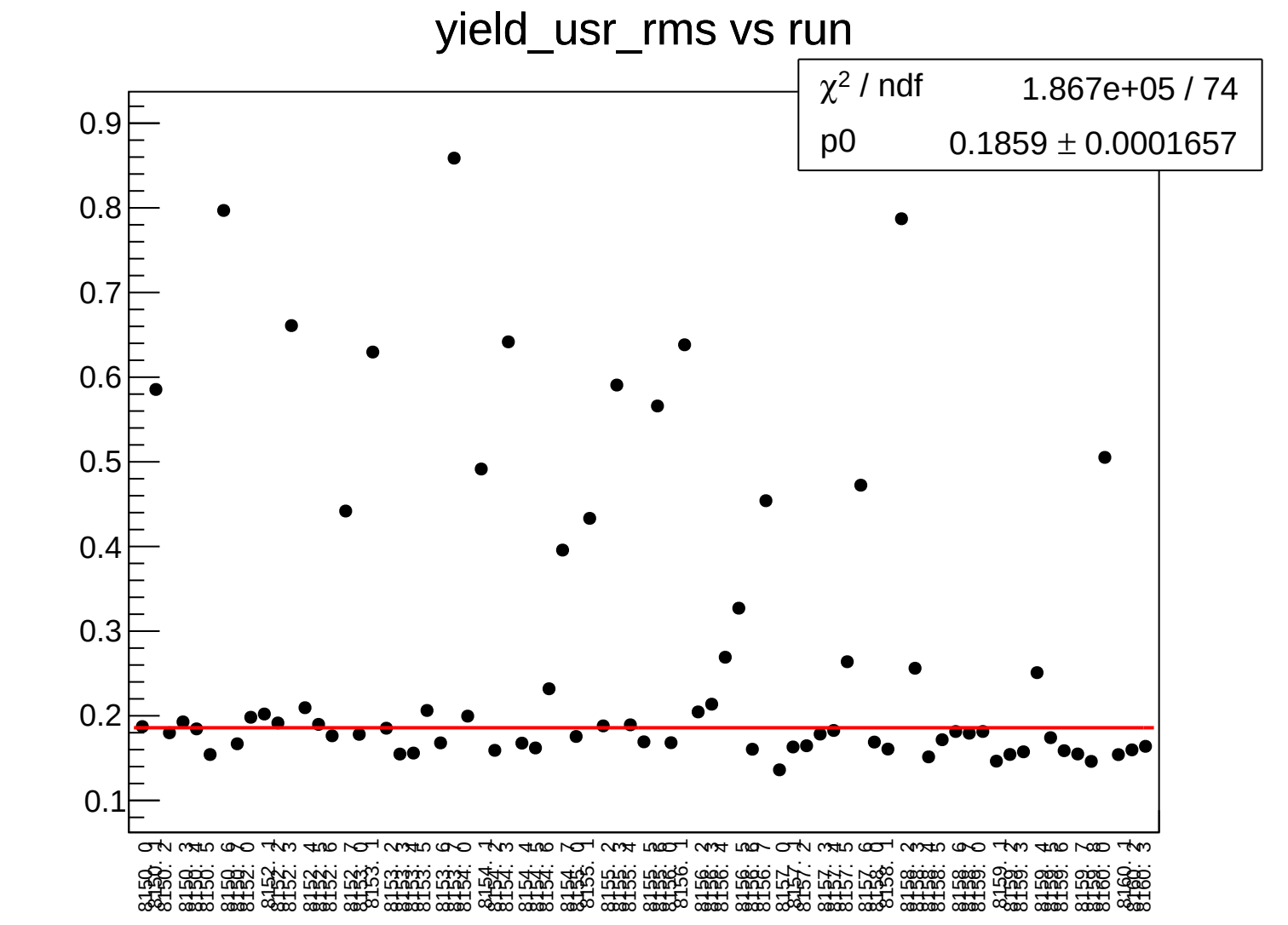

yield_usl_mean vs run
χ² / ndf 1.181e+05 / 74
p0 32.99 ± 0.000116
33.1
33.05
33
32.95
32.9
pull
Entries 75
Mean −6584
Std Dev 6621
120
100
80
60
40
20
0
−20
−40
−60

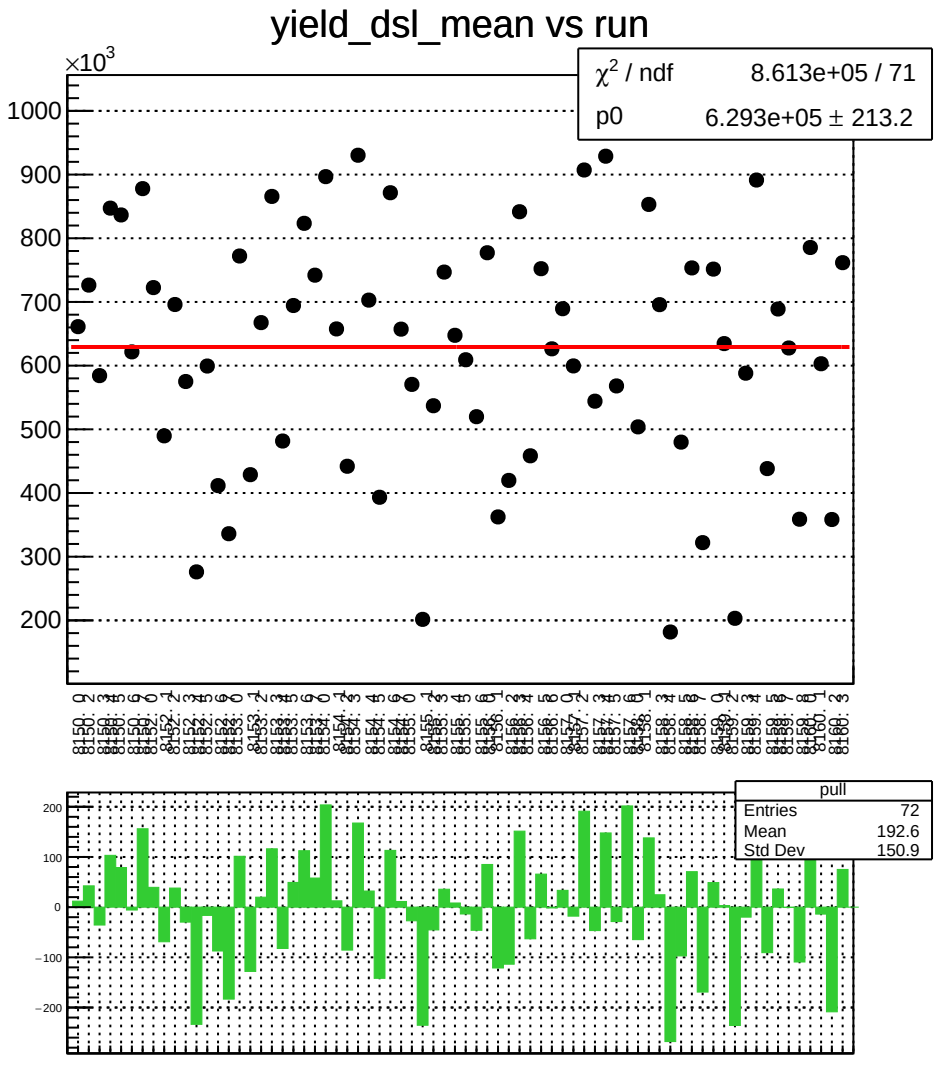

pull1D
Entries 75
Mean −0.7385
Std Dev 4.245
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

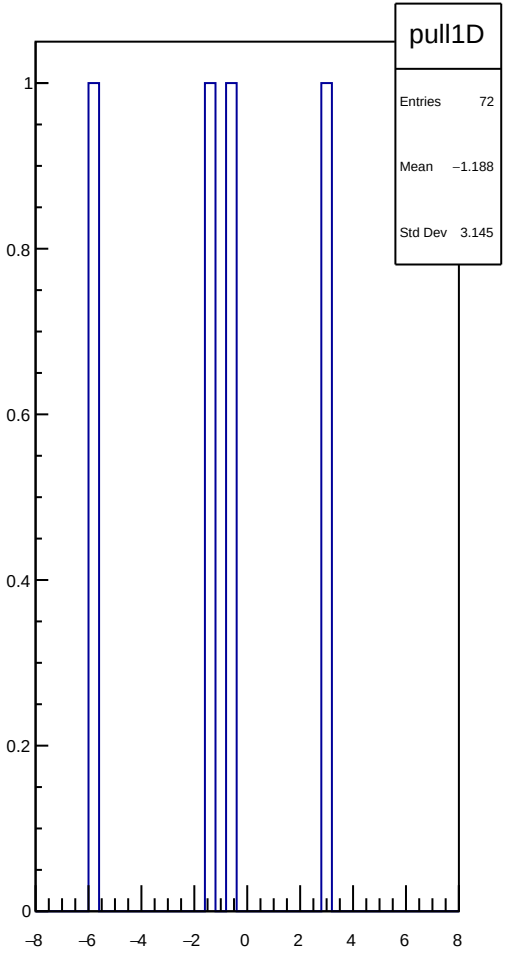

yield_usl_rms vs run
χ² / ndf 1.899e+05 / 74
p0 0.09191 ± 8.205e–05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

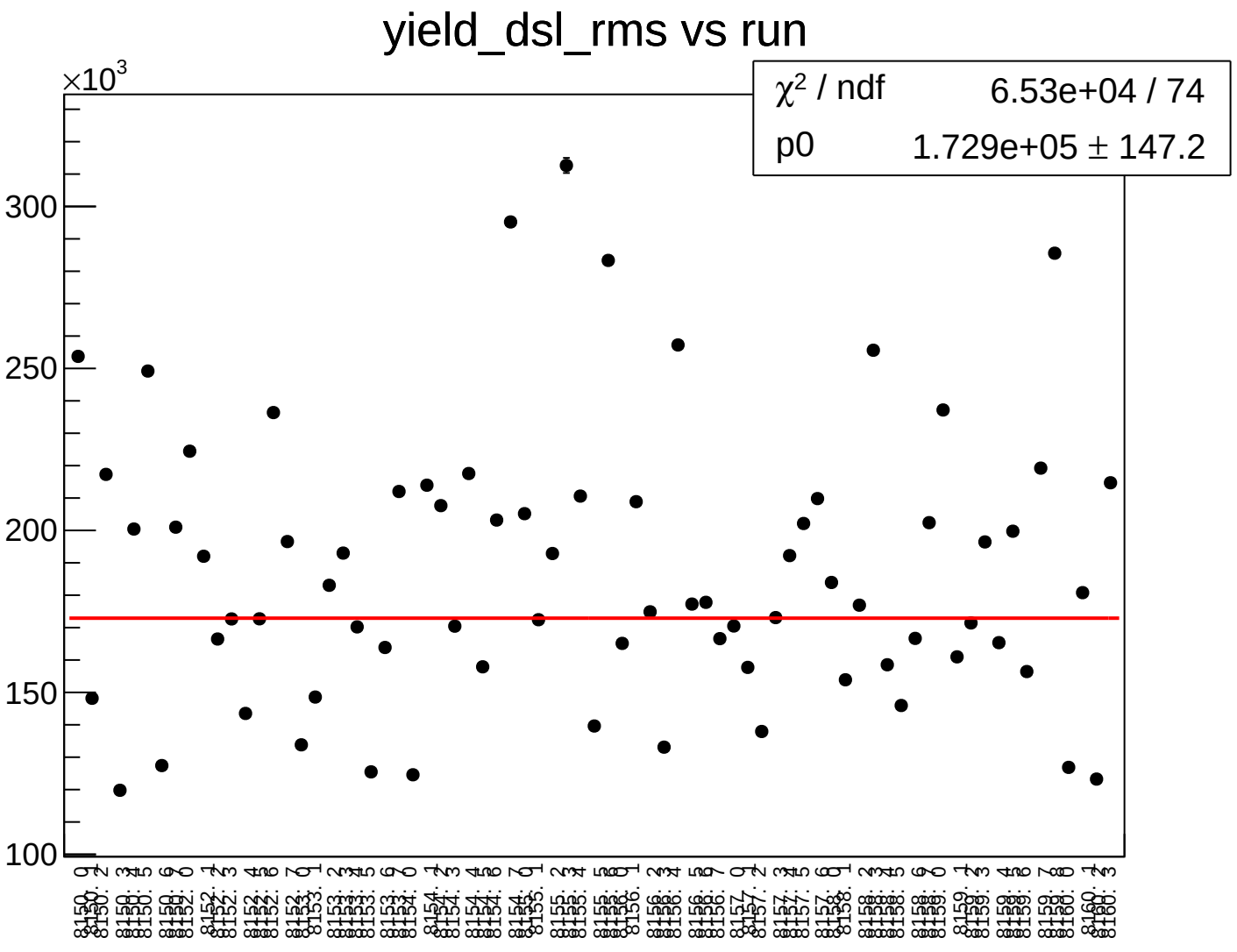

yield_usr_mean vs run
χ² / ndf 3.167e+04 / 74
p0 33.47 ± 0.0002344
33.6
33.55
33.5
33.45
33.4
33.35
pull
Entries 75
Mean 1860
Std Dev 1824
60
40
20
0
−20
−40

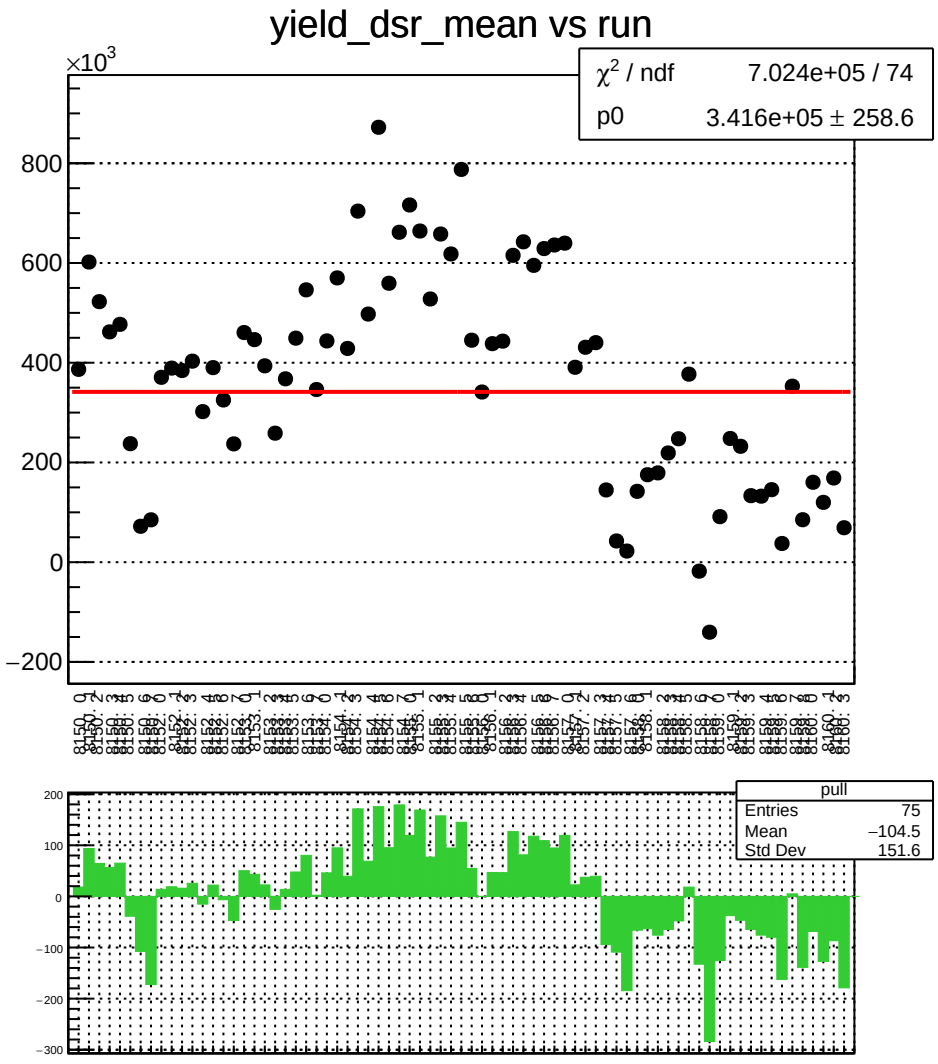

pull1D
Entries 75
Mean −1.808
Std Dev 4.461
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

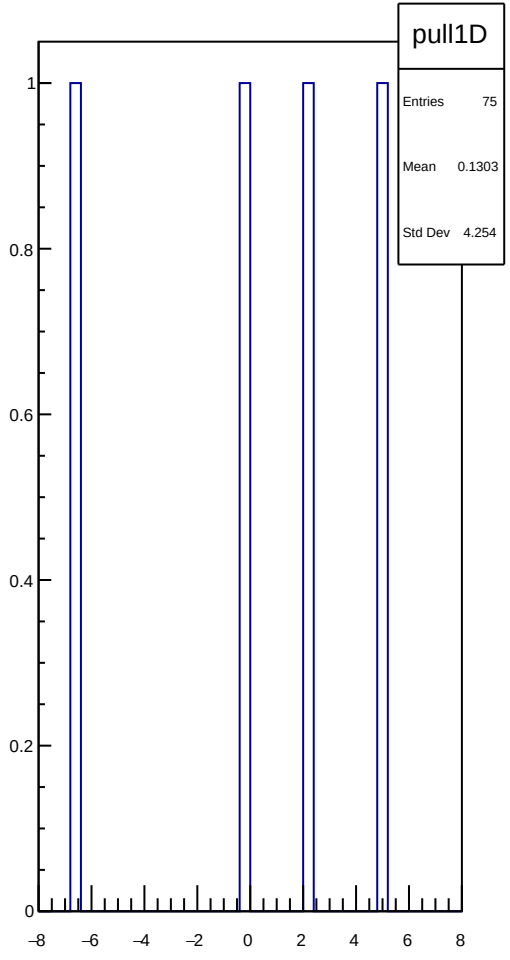

yield_usr_rms vs run
χ^2 / ndf 1.867e+05 / 74
p0 0.1859 ± 0.0001657
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

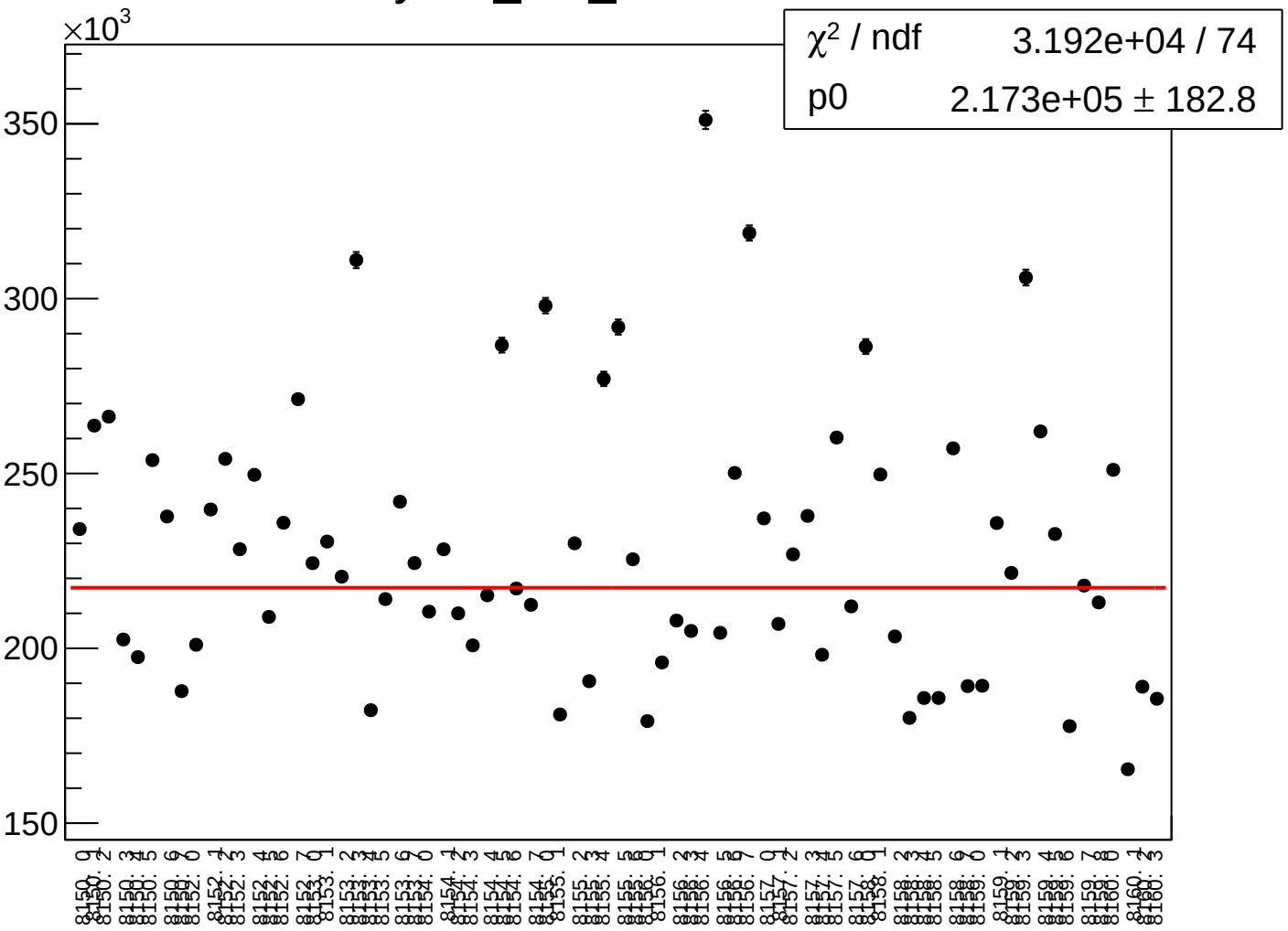

yield_dsl_mean vs run
×10^3
χ² / ndf 8.613e+05 / 71
p0 6.293e+05 ± 213.2
1000
900
800
700
600
500
400
300
200
pull
Entries 72
Mean 192.6
Std Dev 150.9
200
100
0
−100
−200

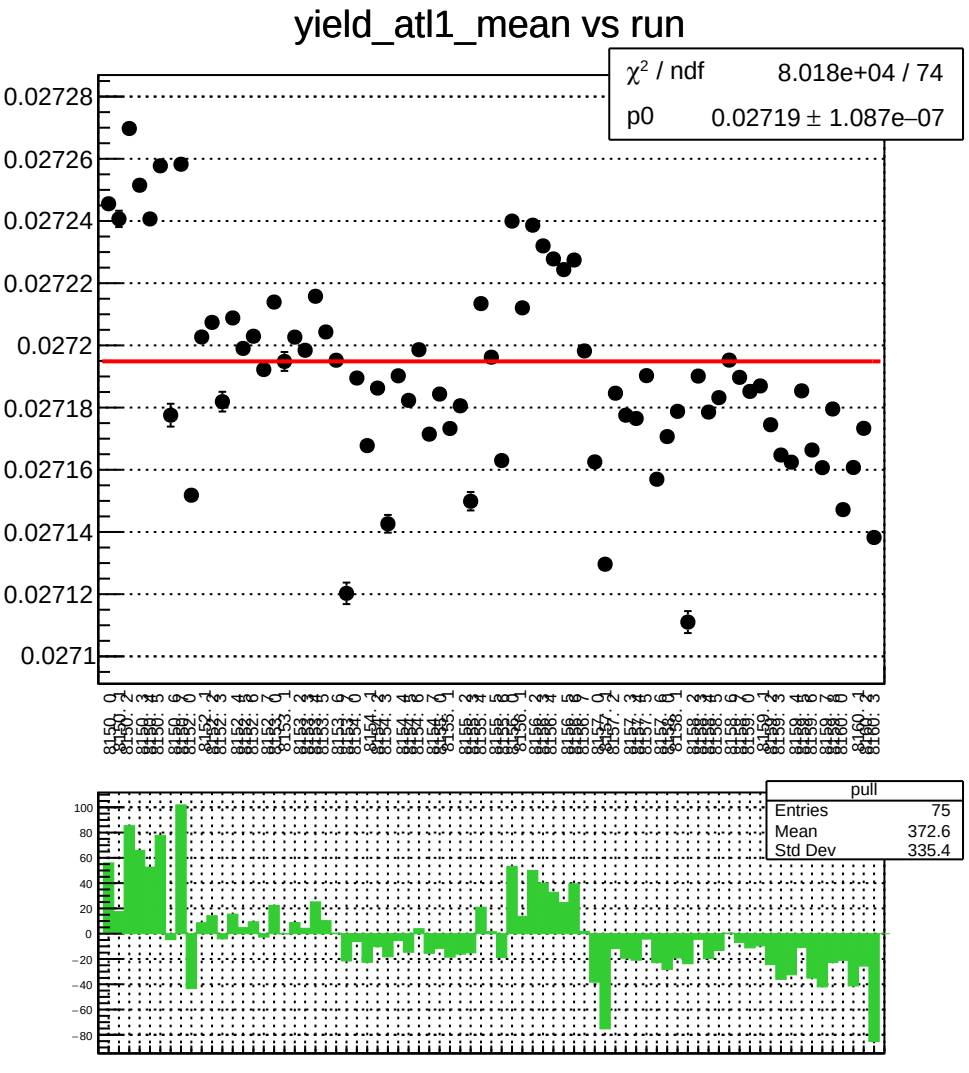

pull1D
Entries 72
Mean −1.188
Std Dev 3.145
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

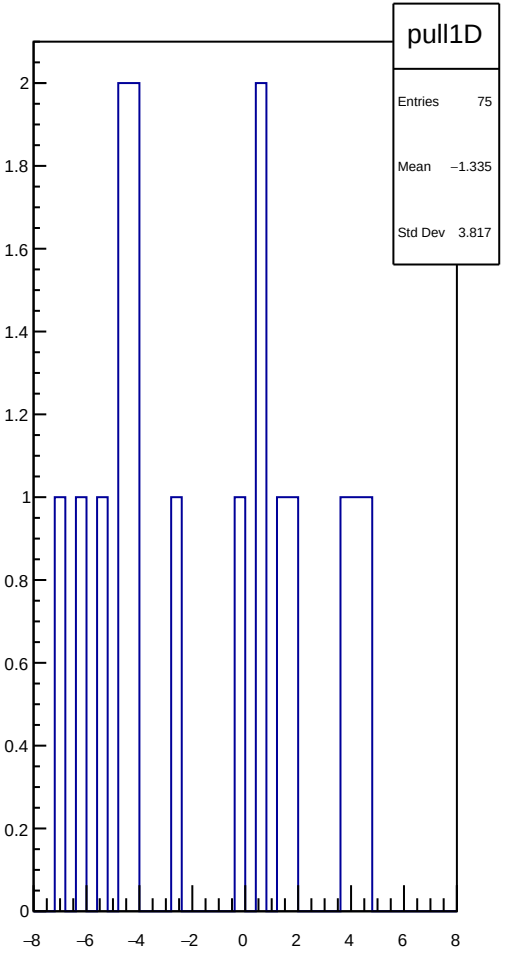

yield_dsl_rms vs run
×10^3
χ² / ndf 6.53e+04 / 74
p0 1.729e+05 ± 147.2
300
250
200
150
100

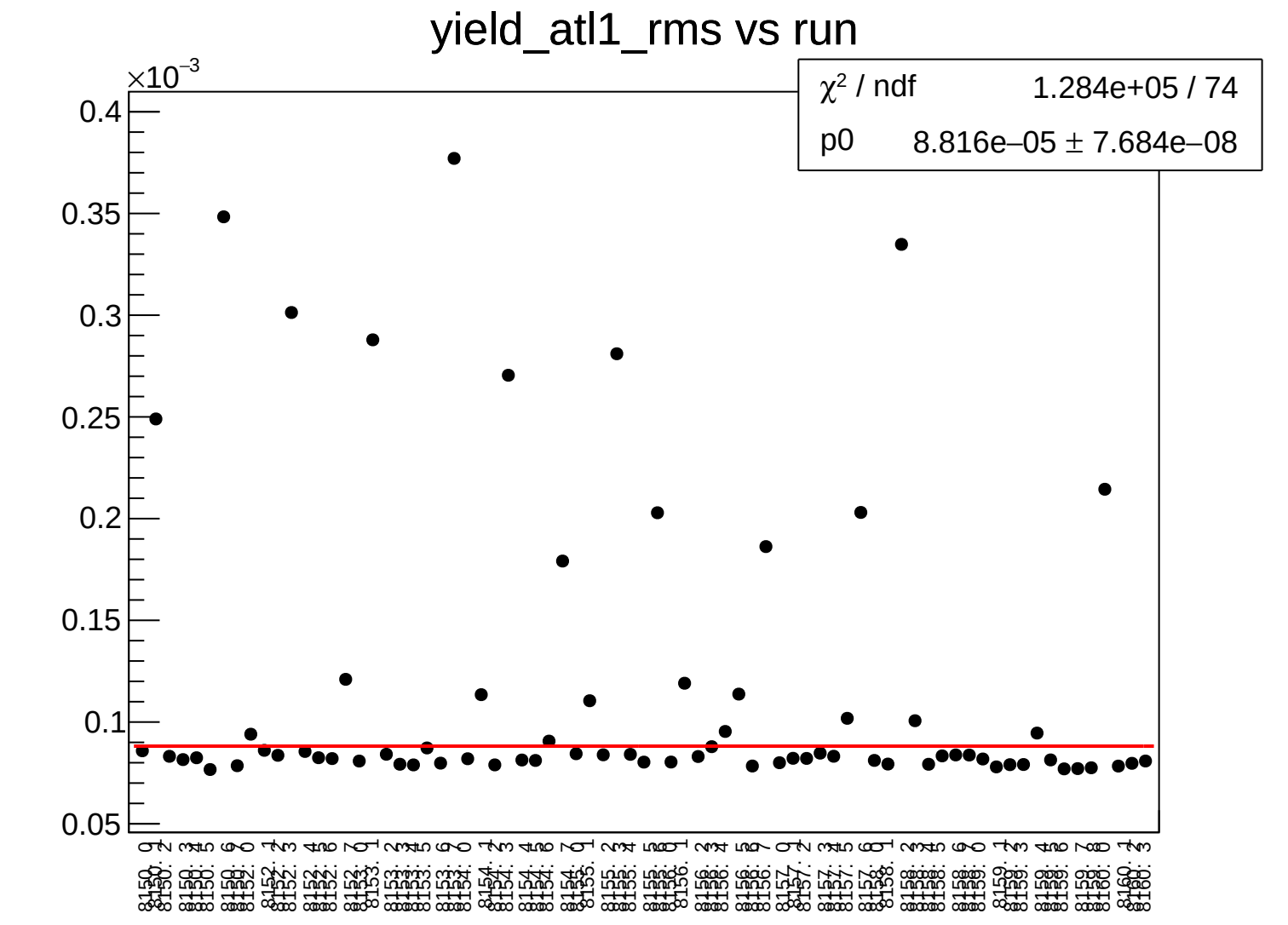

yield_dsr_mean vs run
χ² / ndf 7.024e+05 / 74
p0 3.416e+05 ± 258.6
×10³
800
600
400
200
0
−200
pull
Entries 75
Mean −104.5
Std Dev 151.6
200
100
0
−100
−200
−300

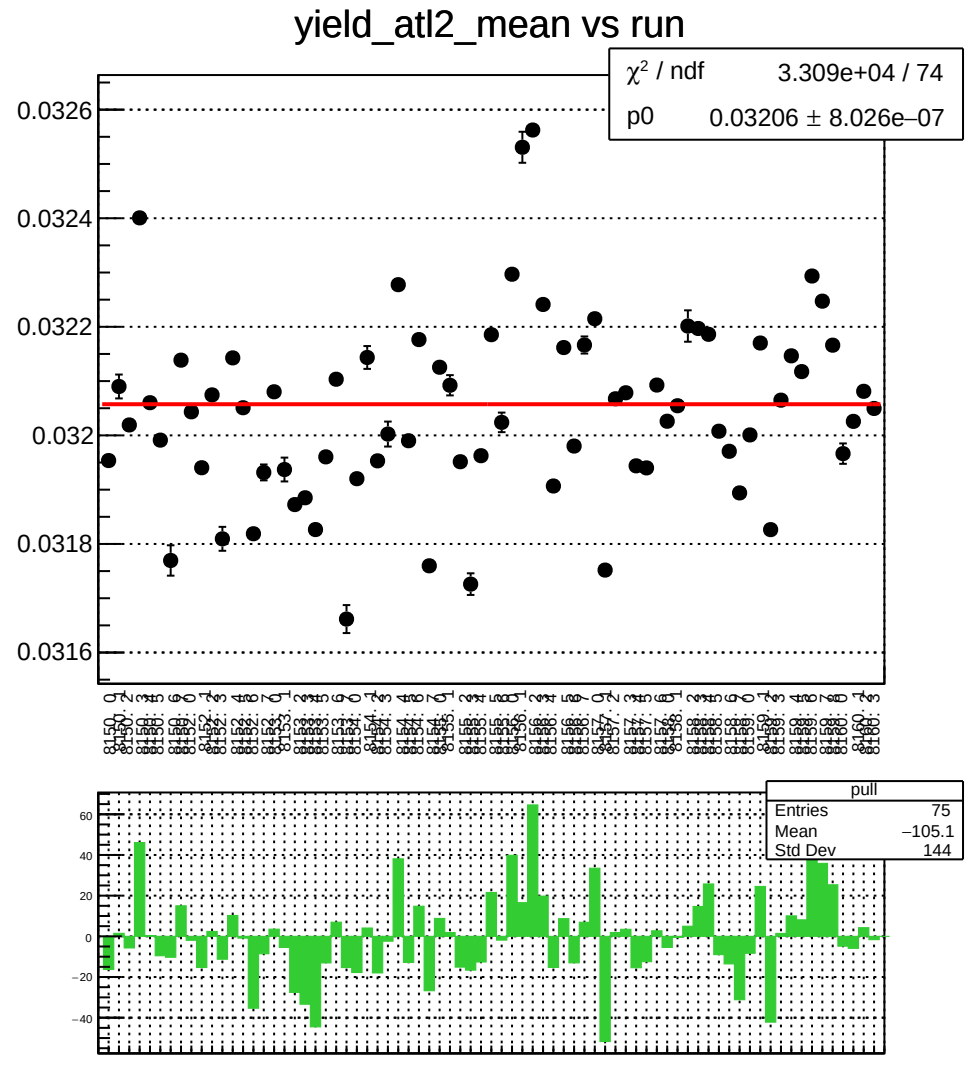

pull1D
Entries 75
Mean 0.1303
Std Dev 4.254
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

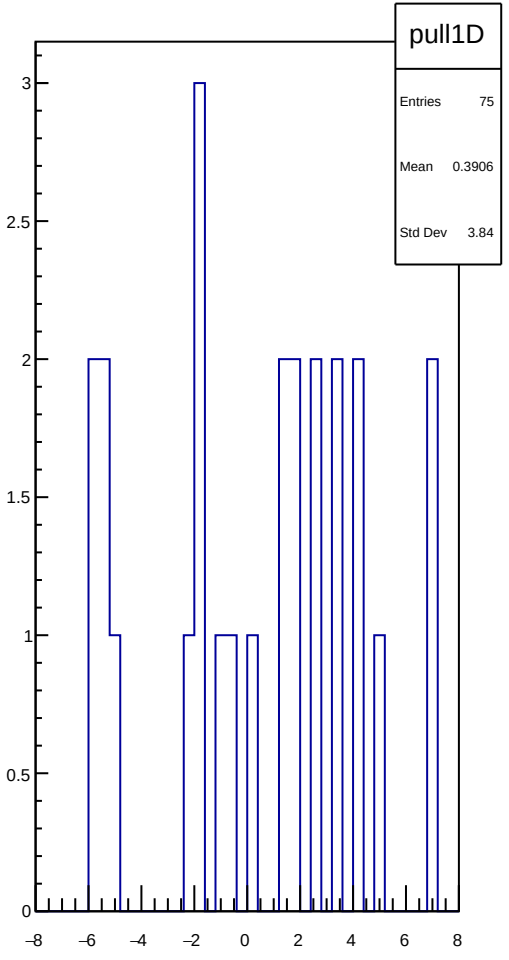

yield_dsr_rms vs run
×10^3
350
300
250
200
150
χ² / ndf 3.192e+04 / 74
p0 2.173e+05 ± 182.8

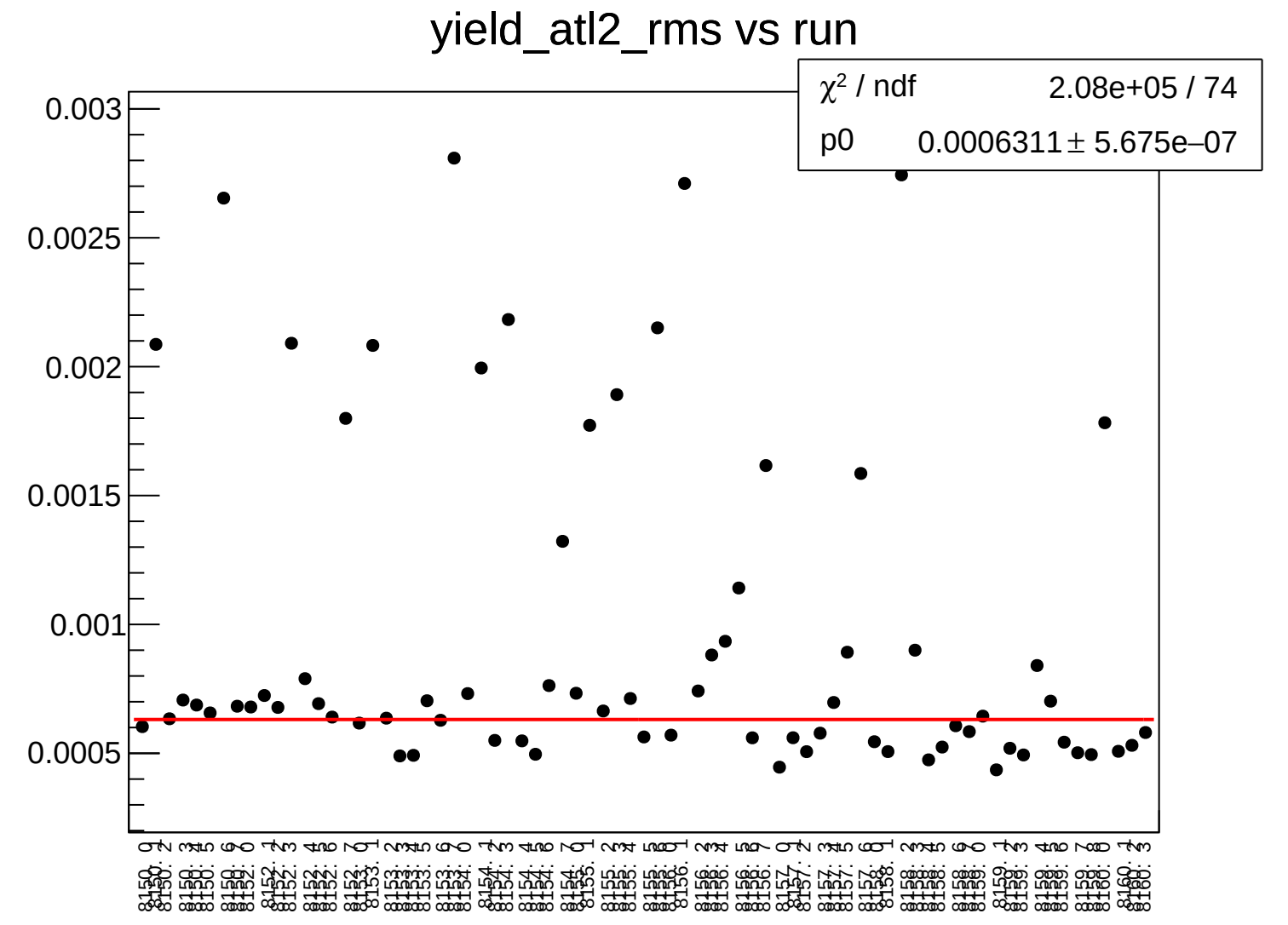

yield_atl1_mean vs run
χ² / ndf 8.018e+04 / 74
p0 0.02719 ± 1.087e−07
0.02728
0.02726
0.02724
0.02722
0.0272
0.02718
0.02716
0.02714
0.02712
0.0271
pull
Entries 75
Mean 372.6
Std Dev 335.4
100
80
60
40
20
0
−20
−40
−60
−80

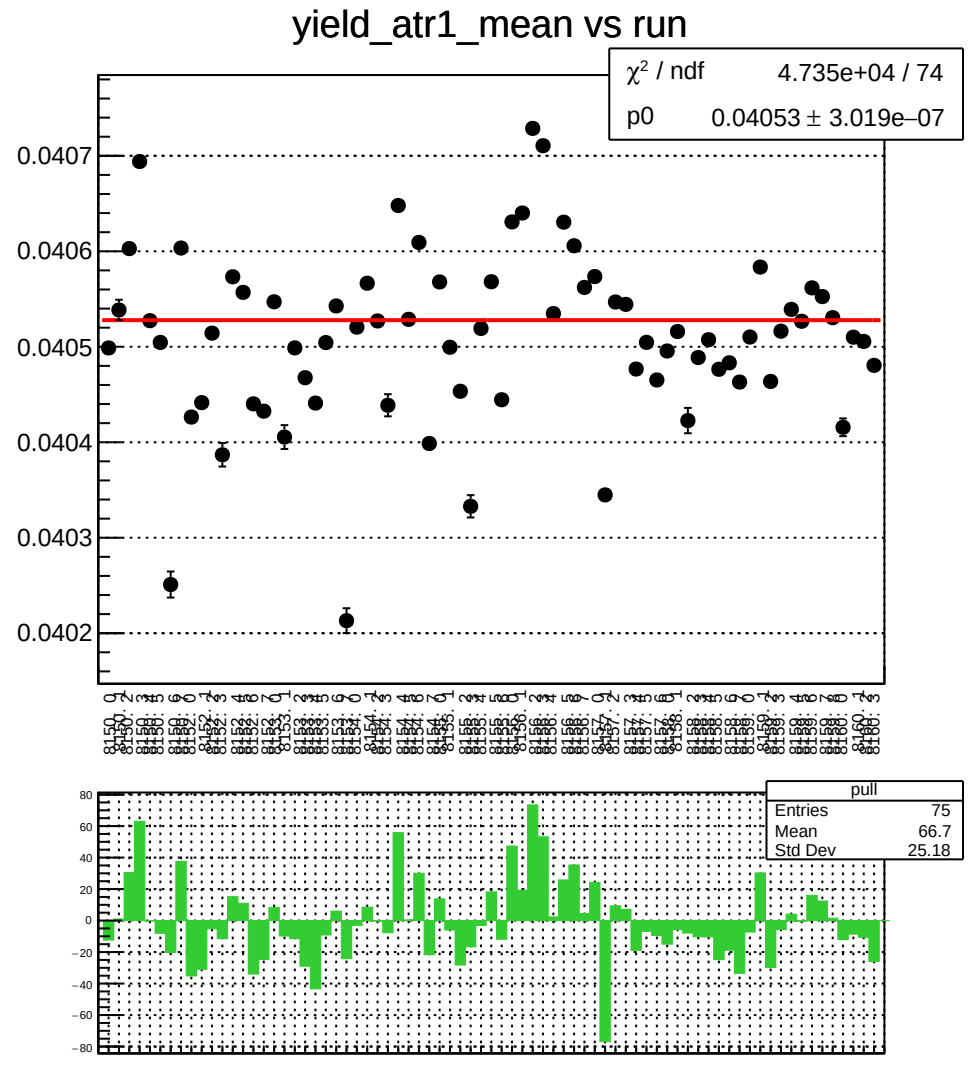

pull1D
Entries 75
Mean −1.335
Std Dev 3.817
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

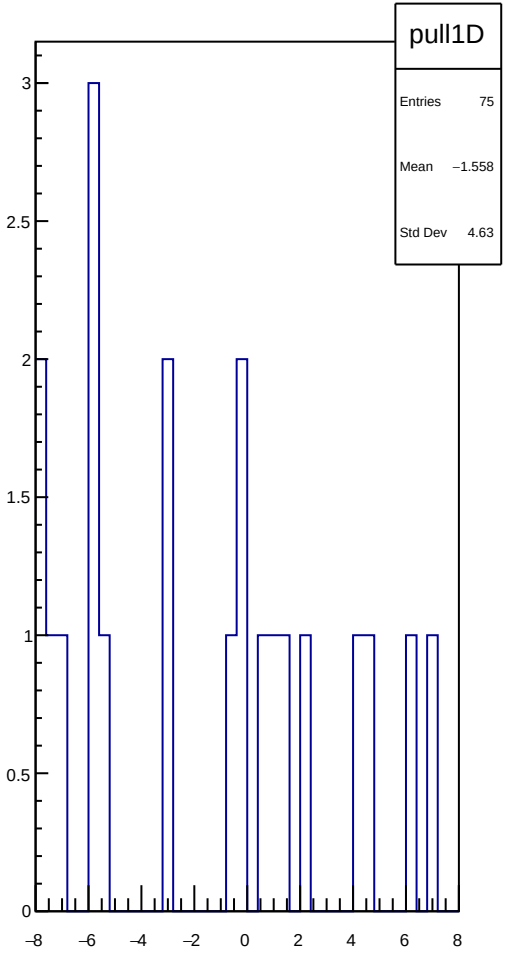

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.284e+05 / 74
p0 8.816e−05 ± 7.684e−08
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

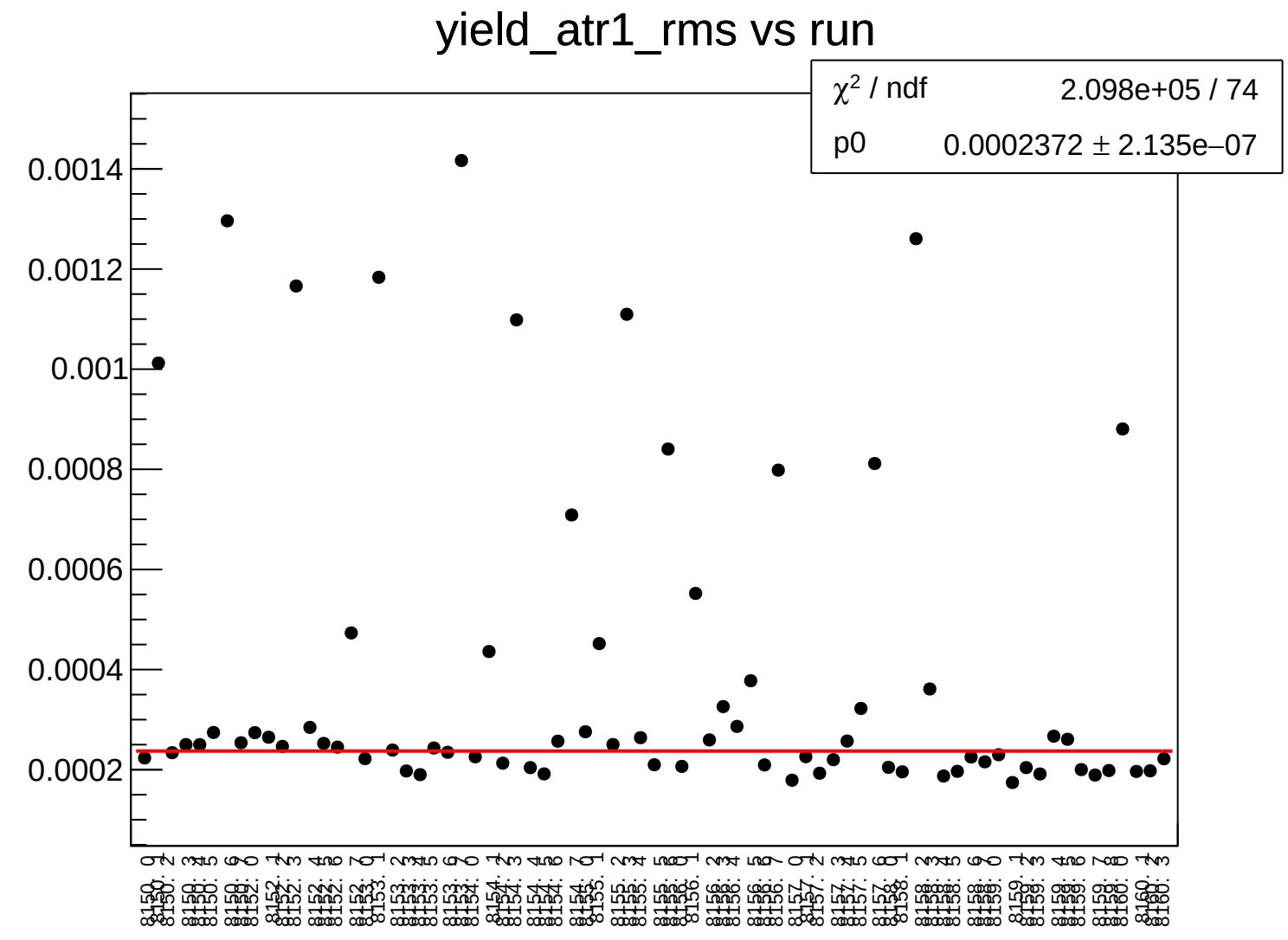

yield_atl2_mean vs run
χ² / ndf 3.309e+04 / 74
p0 0.03206 ± 8.026e−07
0.0326
0.0324
0.0322
0.032
0.0318
0.0316
pull
Entries 75
Mean −105.1
Std Dev 144
60
40
20
0
−20
−40

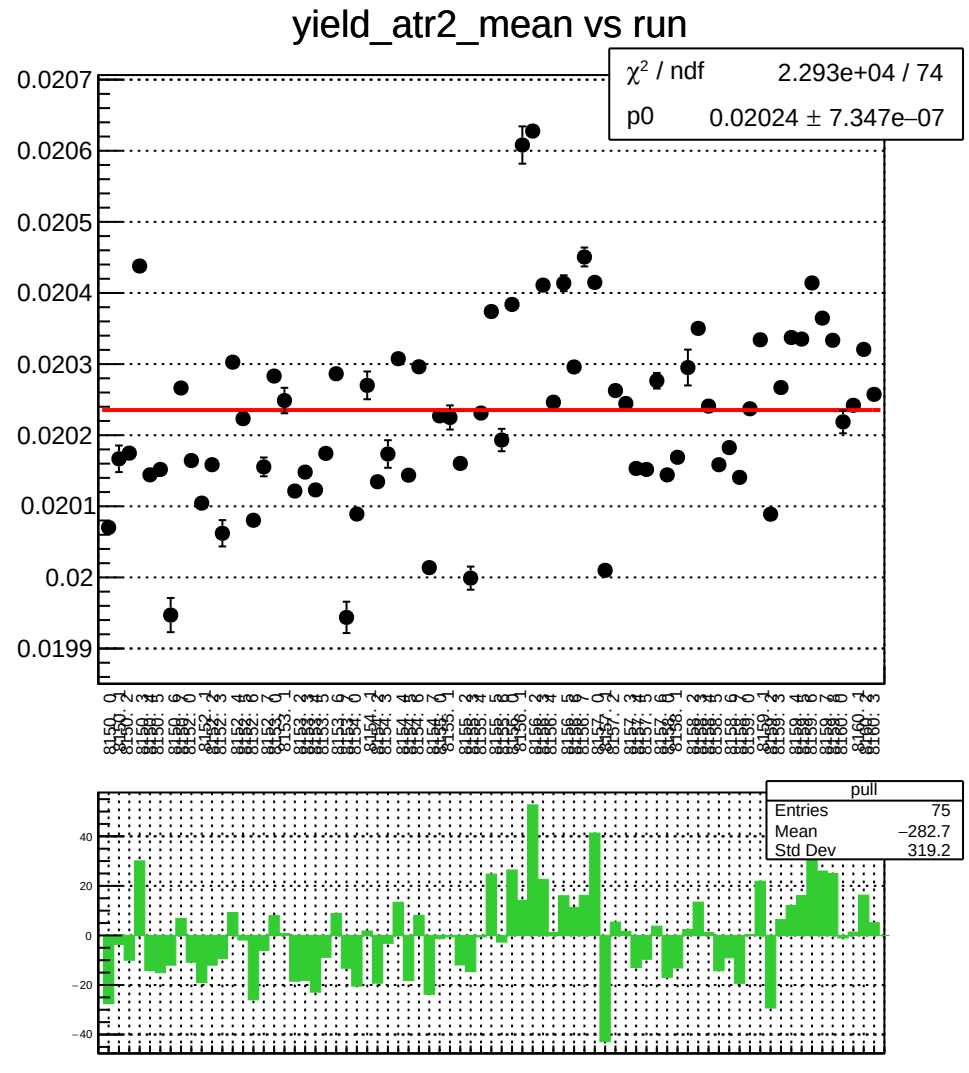

pull1D
Entries 75
Mean 0.3906
Std Dev 3.84
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

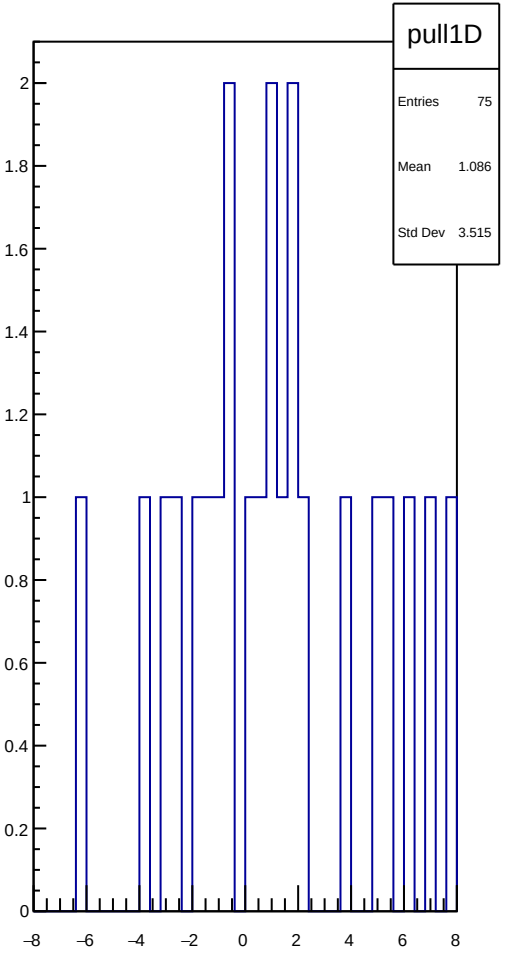

yield_atl2_rms vs run
χ² / ndf 2.08e+05 / 74
p0 0.0006311 ± 5.675e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

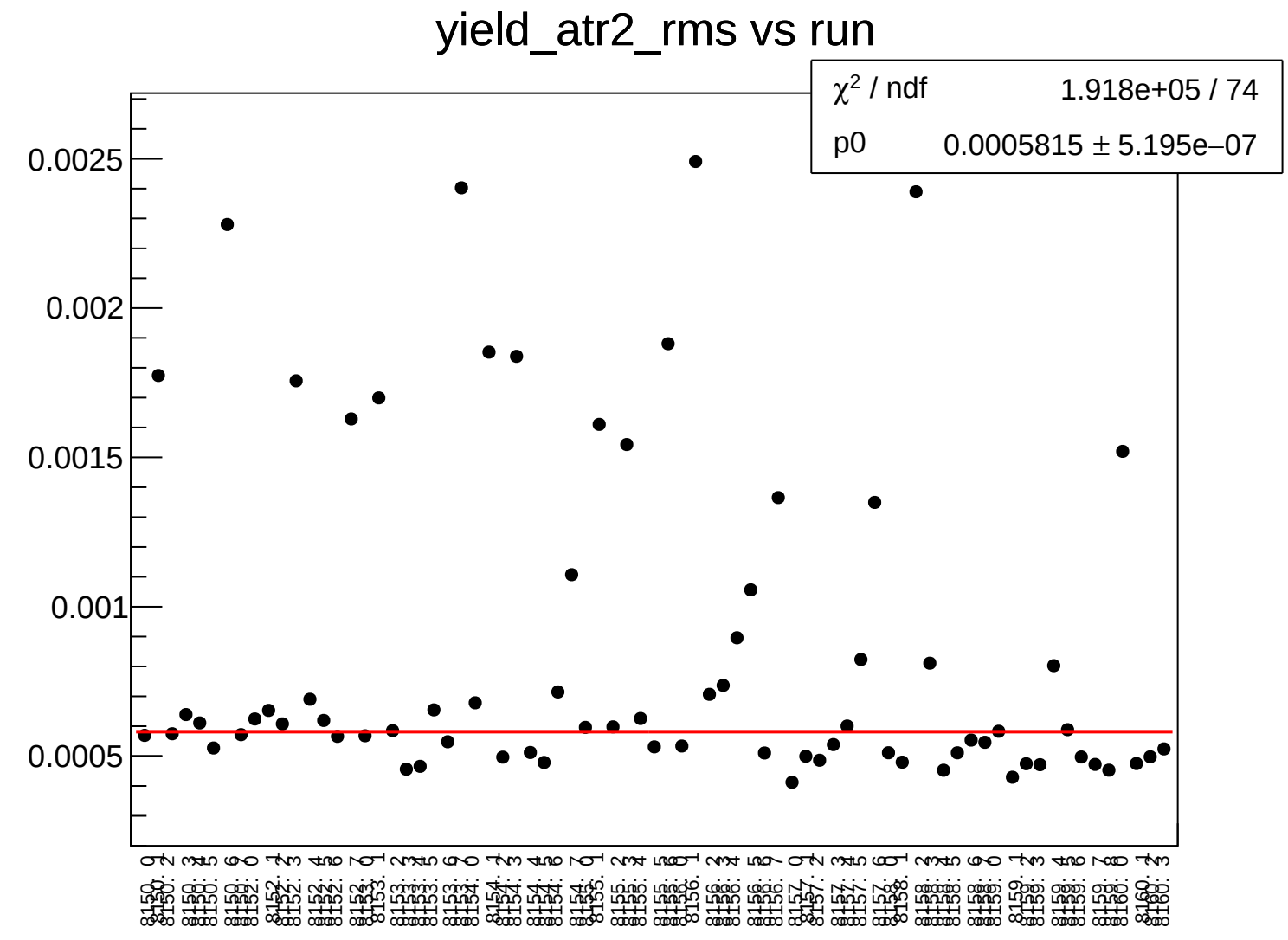

yield_atr1_mean vs run
χ² / ndf 4.735e+04 / 74
p0 0.04053 ± 3.019e−07
0.0407
0.0406
0.0405
0.0404
0.0403
0.0402
pull
Entries 75
Mean 66.7
Std Dev 25.18
80
60
40
20
0
−20
−40
−60
−80

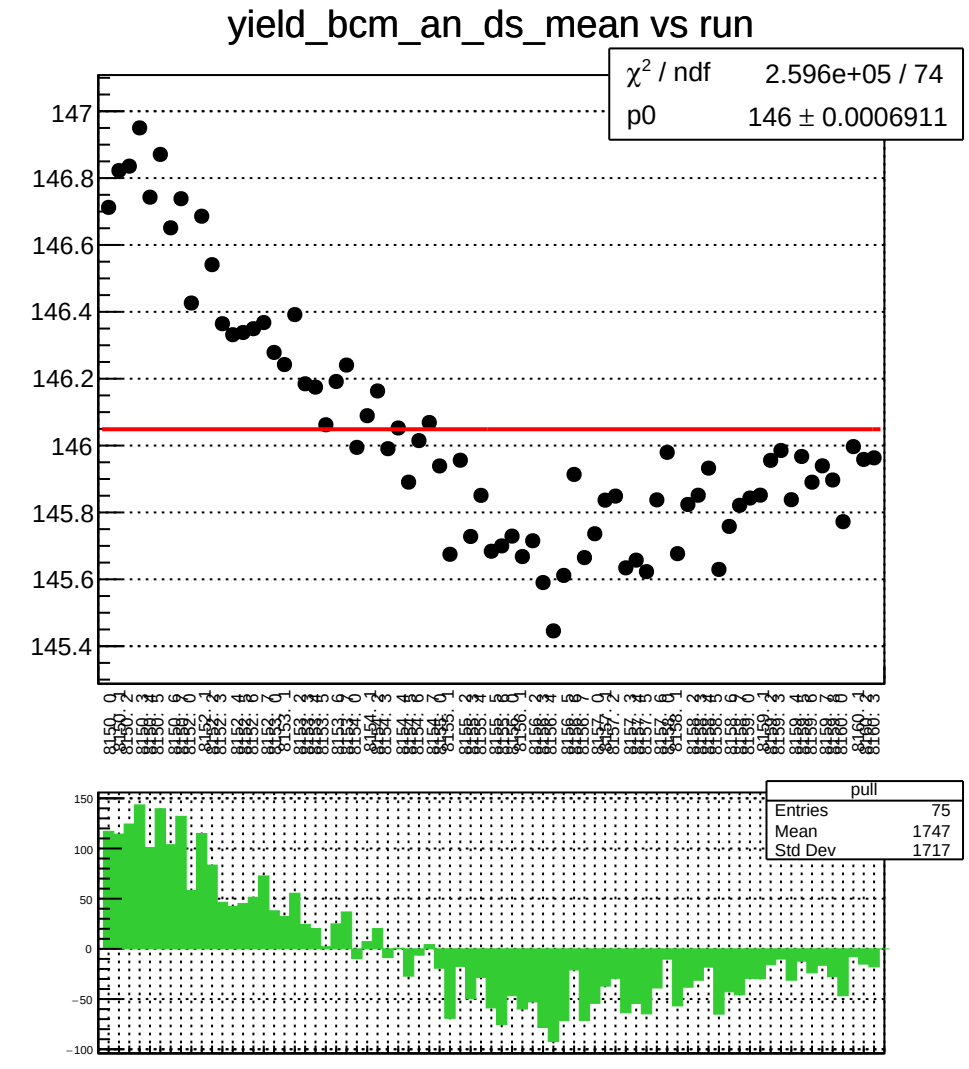

pull1D
Entries 75
Mean −1.558
Std Dev 4.63
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

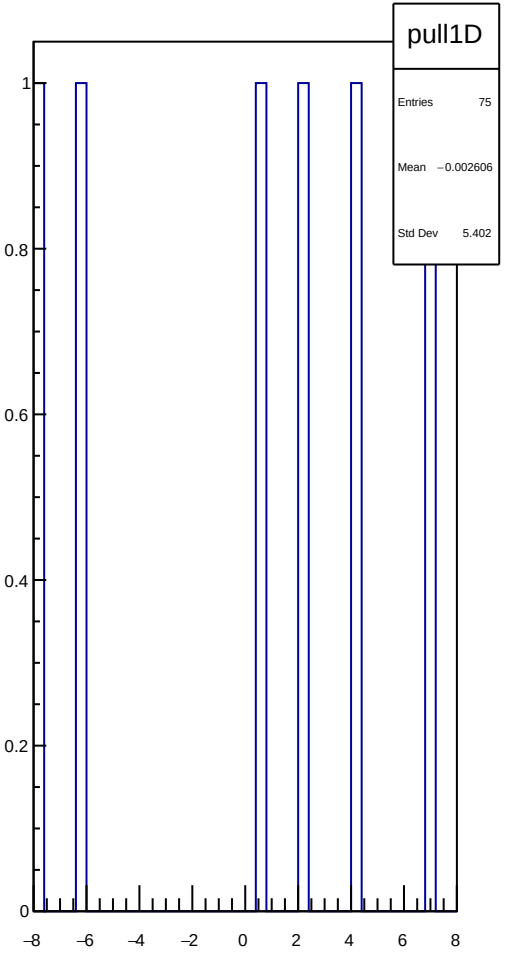

yield_atr1_rms vs run
χ² / ndf 2.098e+05 / 74
p0 0.0002372 ± 2.135e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

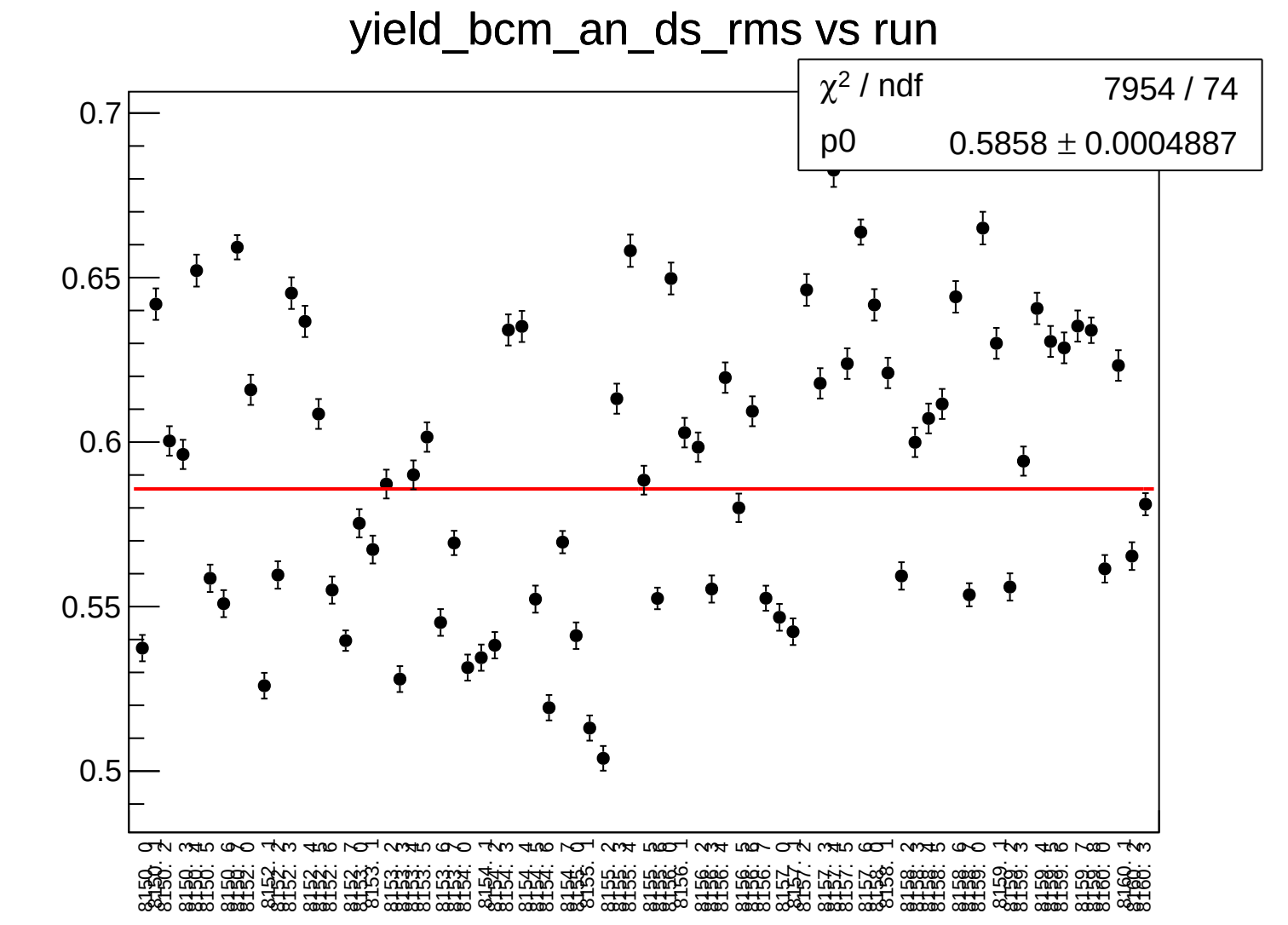

yield_atr2_mean vs run
χ² / ndf 2.293e+04 / 74
p0 0.02024 ± 7.347e−07
0.0207
0.0206
0.0205
0.0204
0.0203
0.0202
0.0201
0.02
0.0199
pull
Entries 75
Mean −282.7
Std Dev 319.2
40
20
0
−20
−40

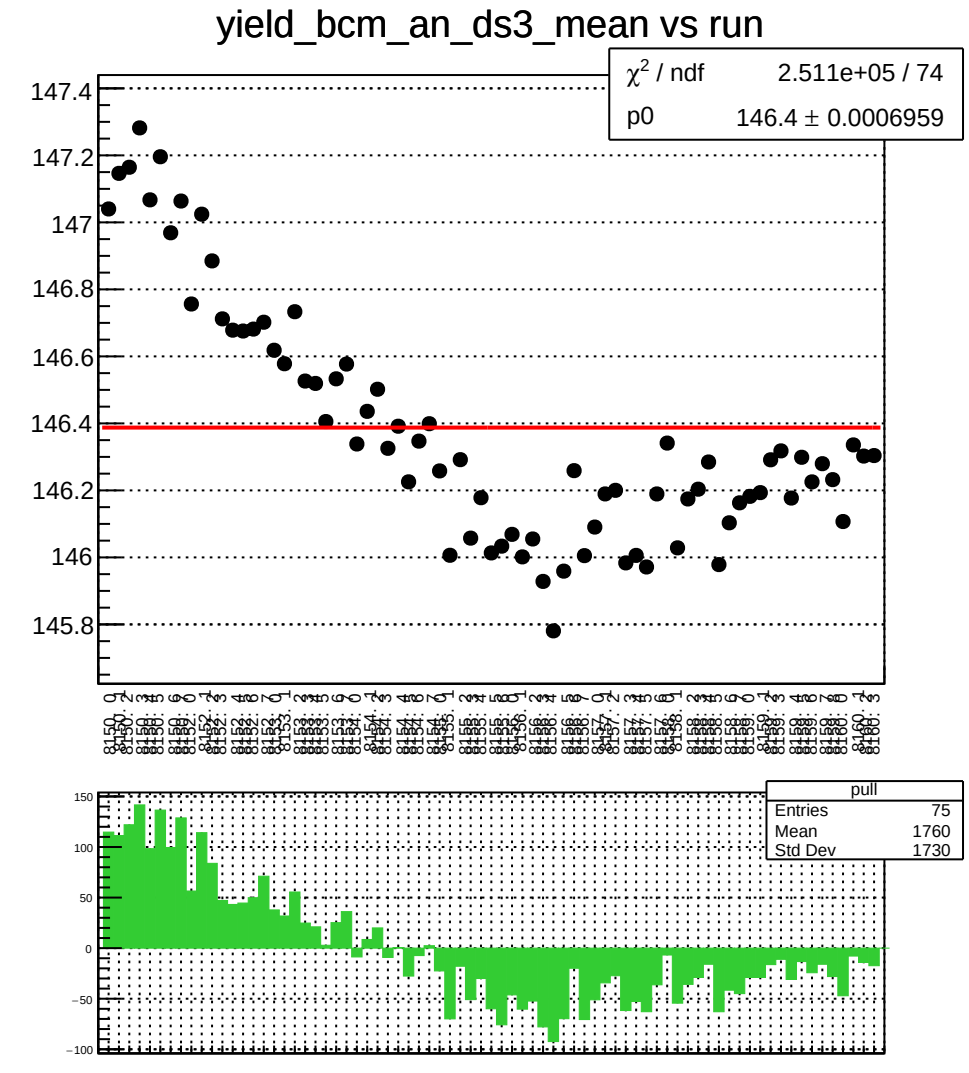

pull1D
Entries 75
Mean 1.086
Std Dev 3.515
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

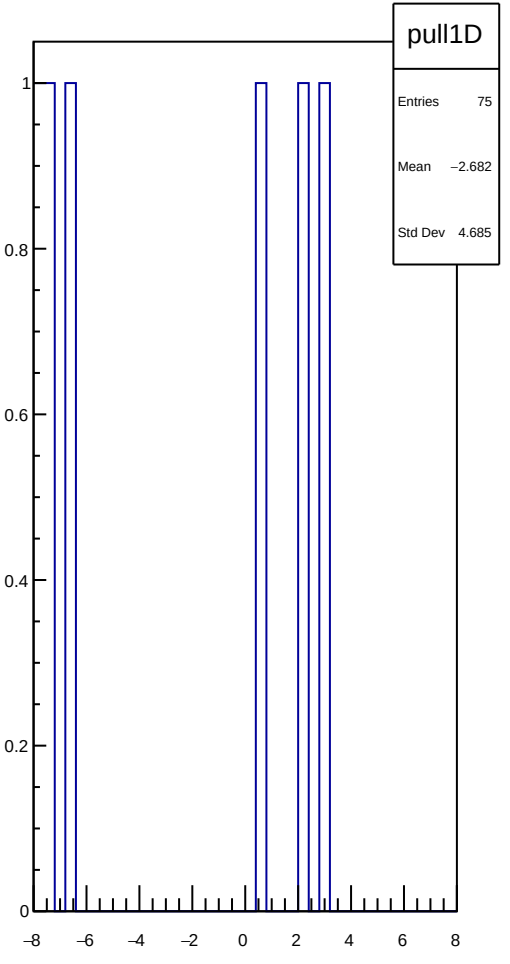

yield_atr2_rms vs run
χ² / ndf 1.918e+05 / 74
p0 0.0005815 ± 5.195e−07
0.0025
0.002
0.0015
0.001
0.0005

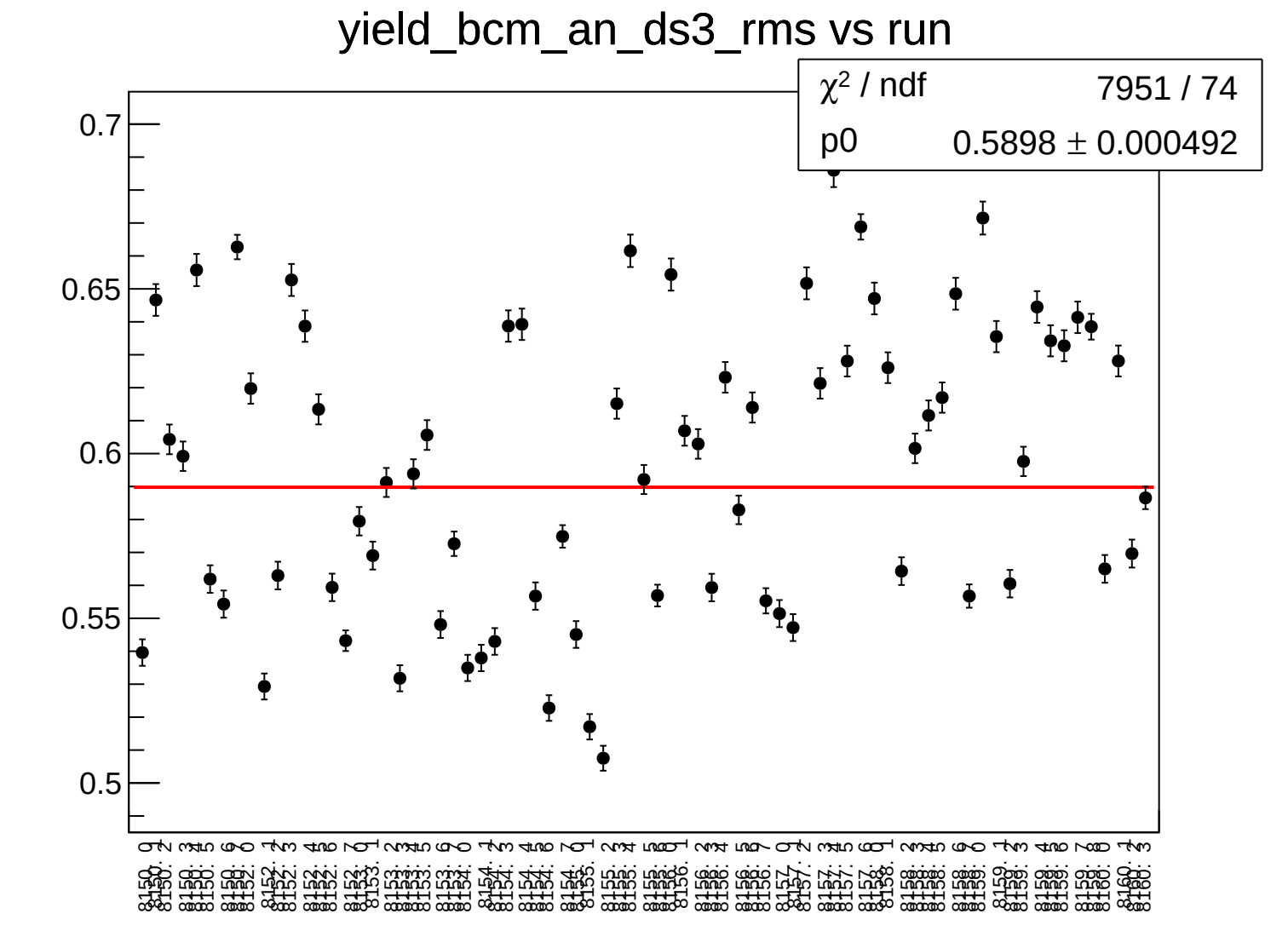

yield_bcm_an_ds_mean vs run
χ² / ndf 2.596e+05 / 74
p0 146 ± 0.0006911
147
146.8
146.6
146.4
146.2
146
145.8
145.6
145.4
pull
Entries 75
Mean 1747
Std Dev 1717
150
100
50
0
−50
−100

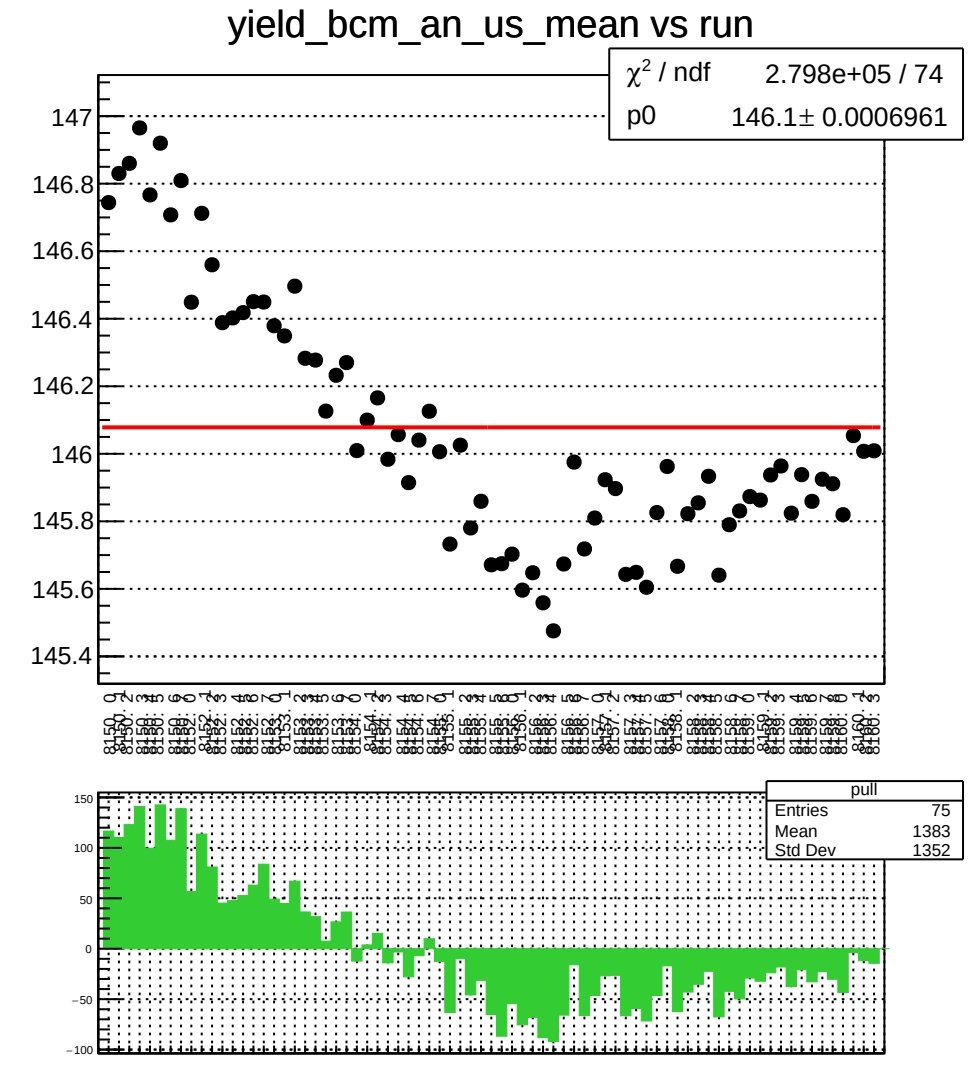

pull1D
Entries 75
Mean −0.002606
Std Dev 5.402
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

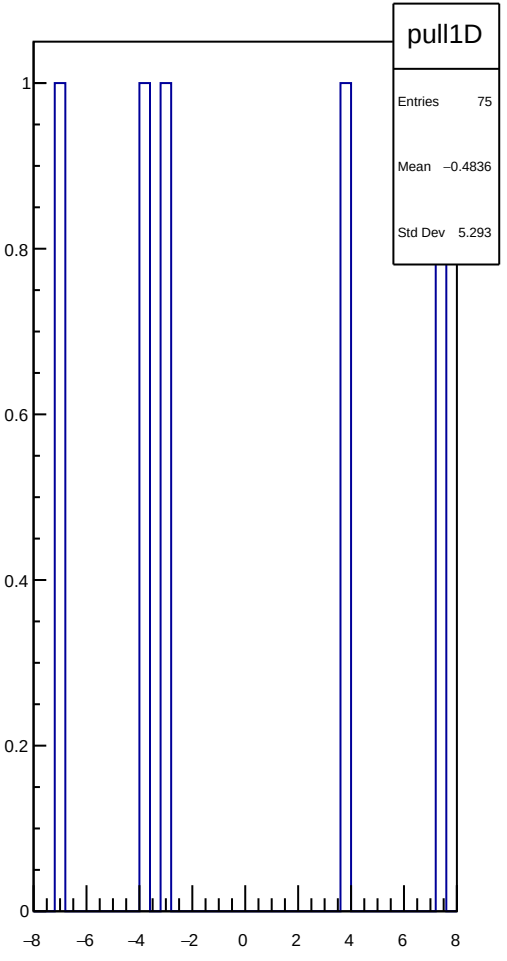

yield_bcm_an_ds_rms vs run
χ² / ndf 7954 / 74
p0 0.5858 ± 0.0004887
0.7
0.65
0.6
0.55
0.5

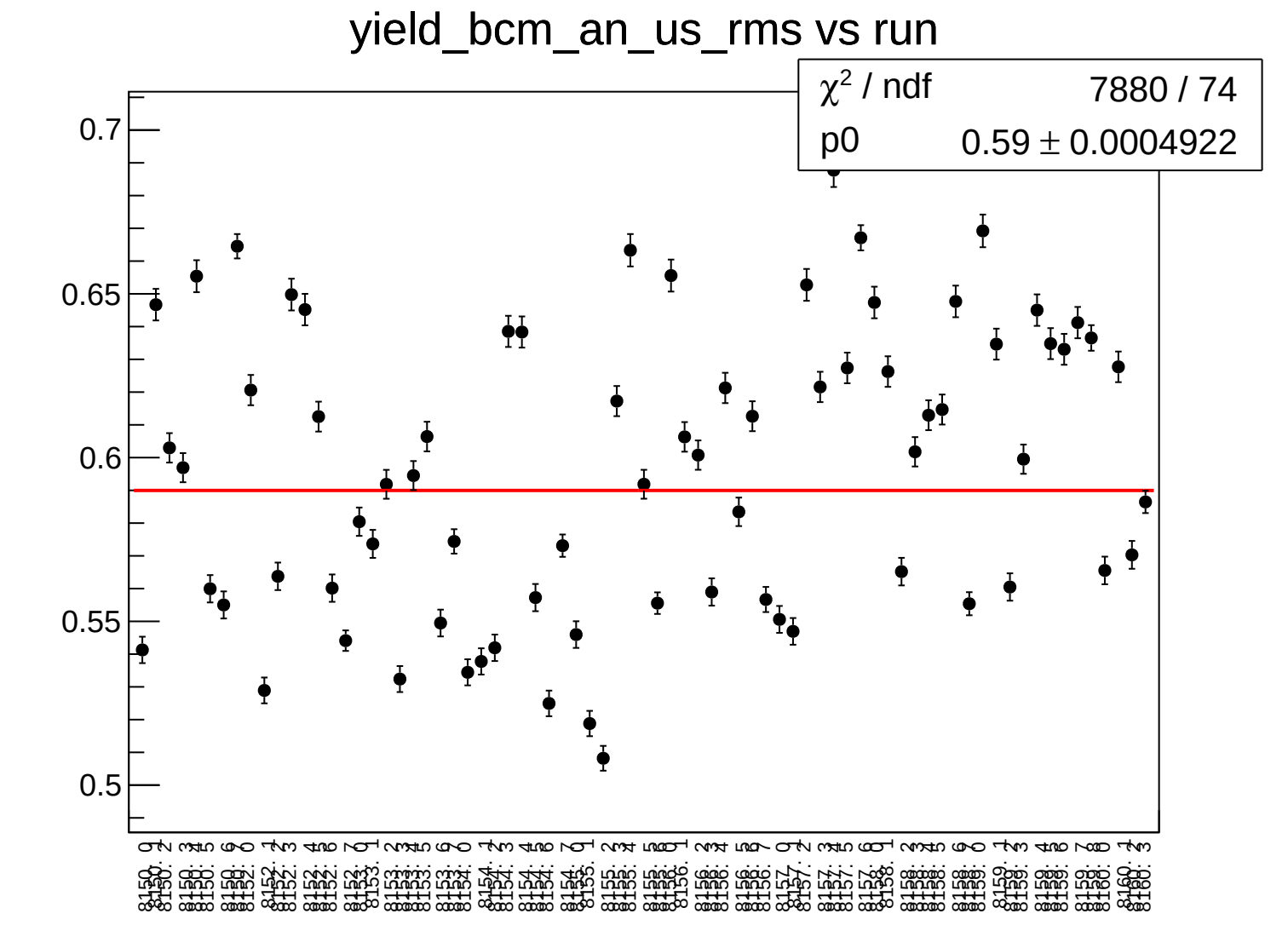

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.511e+05 / 74
p0 146.4 ± 0.0006959
147.4
147.2
147
146.8
146.6
146.4
146.2
146
145.8
pull
Entries 75
Mean 1760
Std Dev 1730
150
100
50
0
−50
−100

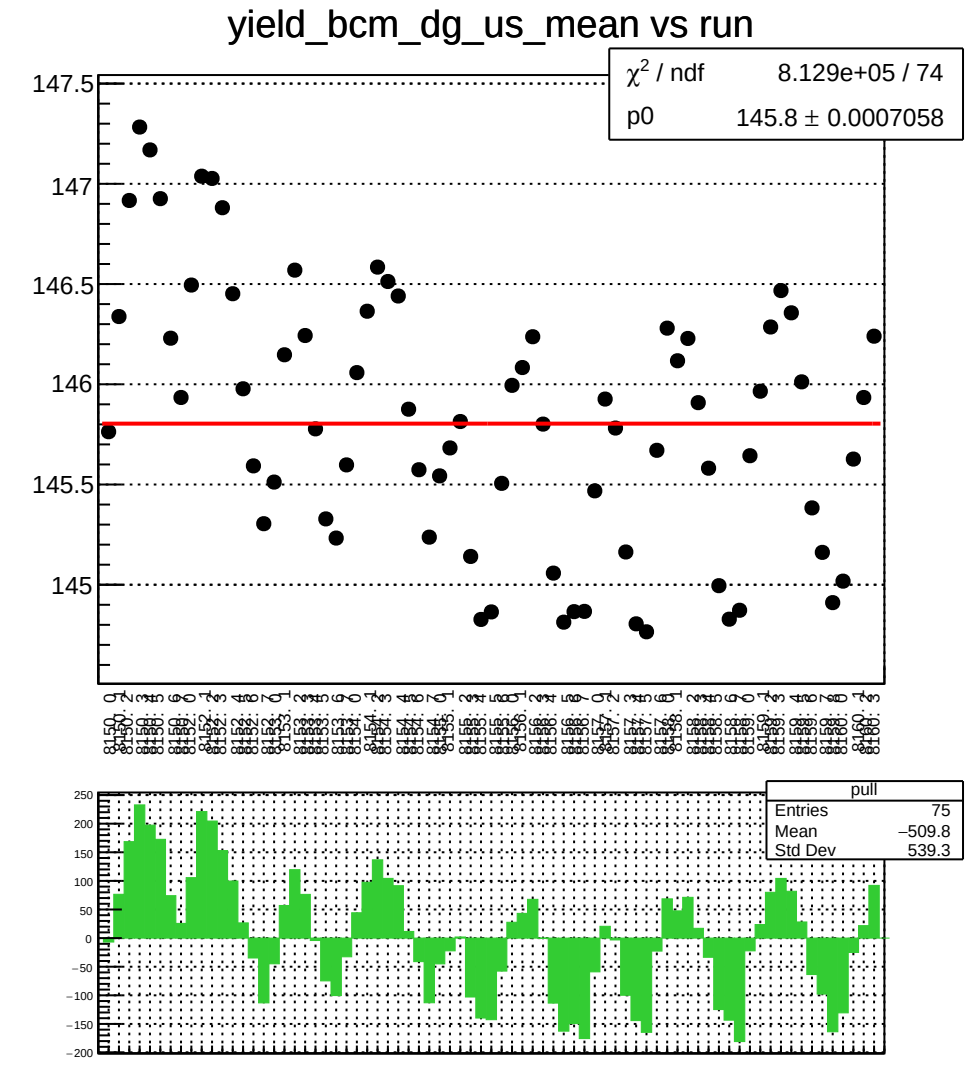

pull1D
Entries 75
Mean −2.682
Std Dev 4.685
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

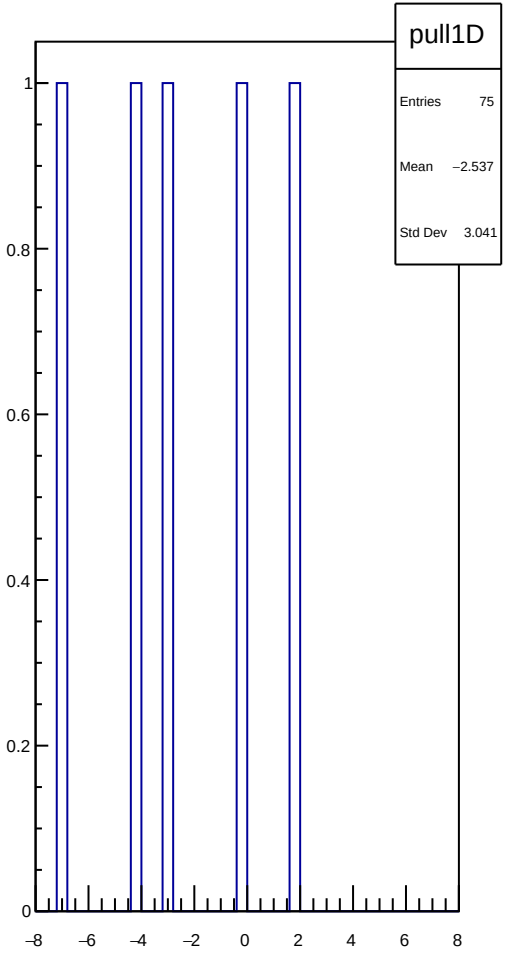

yield_bcm_an_ds3_rms vs run
χ² / ndf 7951 / 74
p0 0.5898 ± 0.000492
0.7
0.65
0.6
0.55
0.5

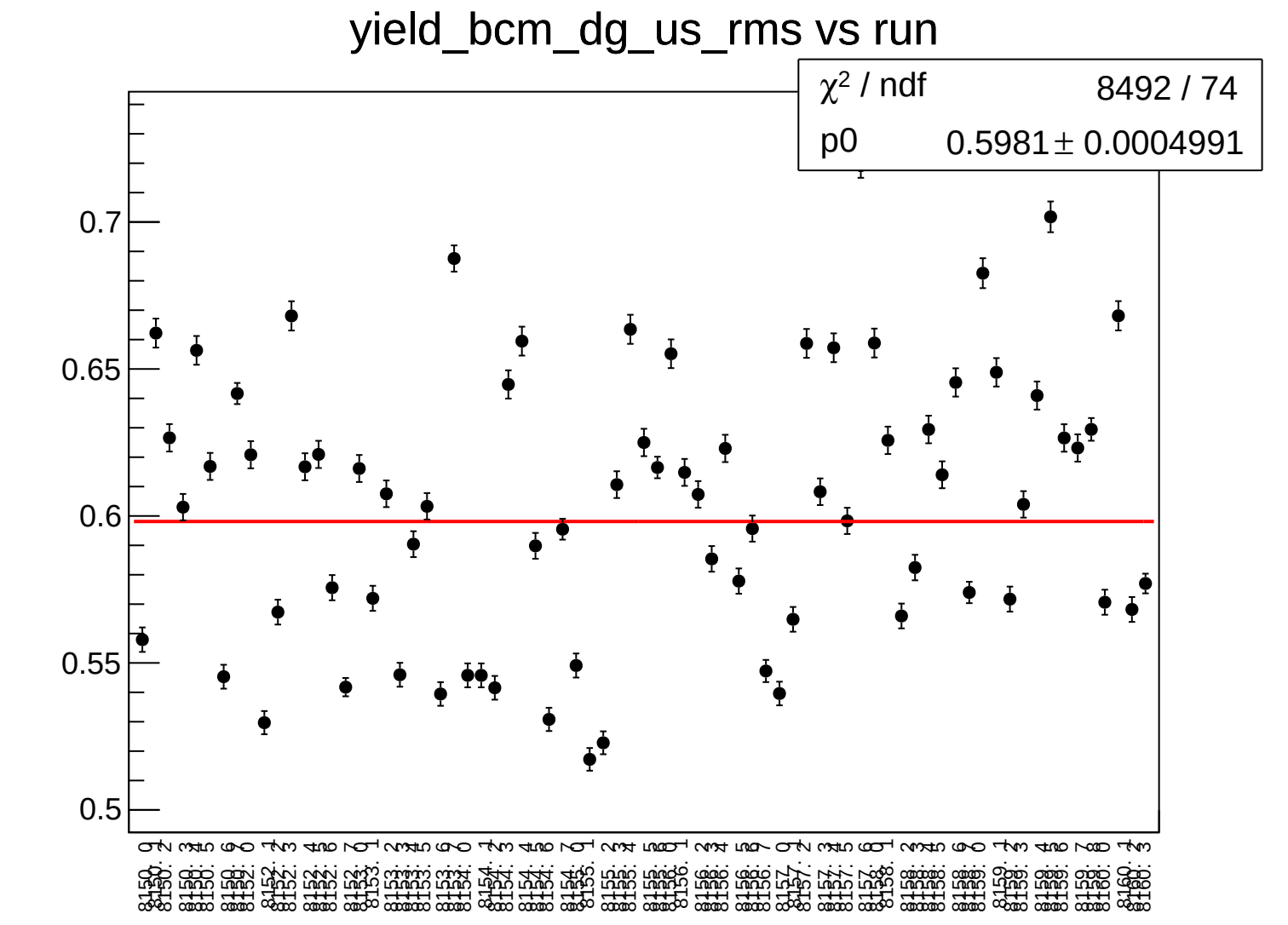

yield_bcm_an_us_mean vs run
χ² / ndf 2.798e+05 / 74
p0 146.1± 0.0006961
147
146.8
146.6
146.4
146.2
146
145.8
145.6
145.4
pull
Entries 75
Mean 1383
Std Dev 1352
150
100
50
0
−50
−100

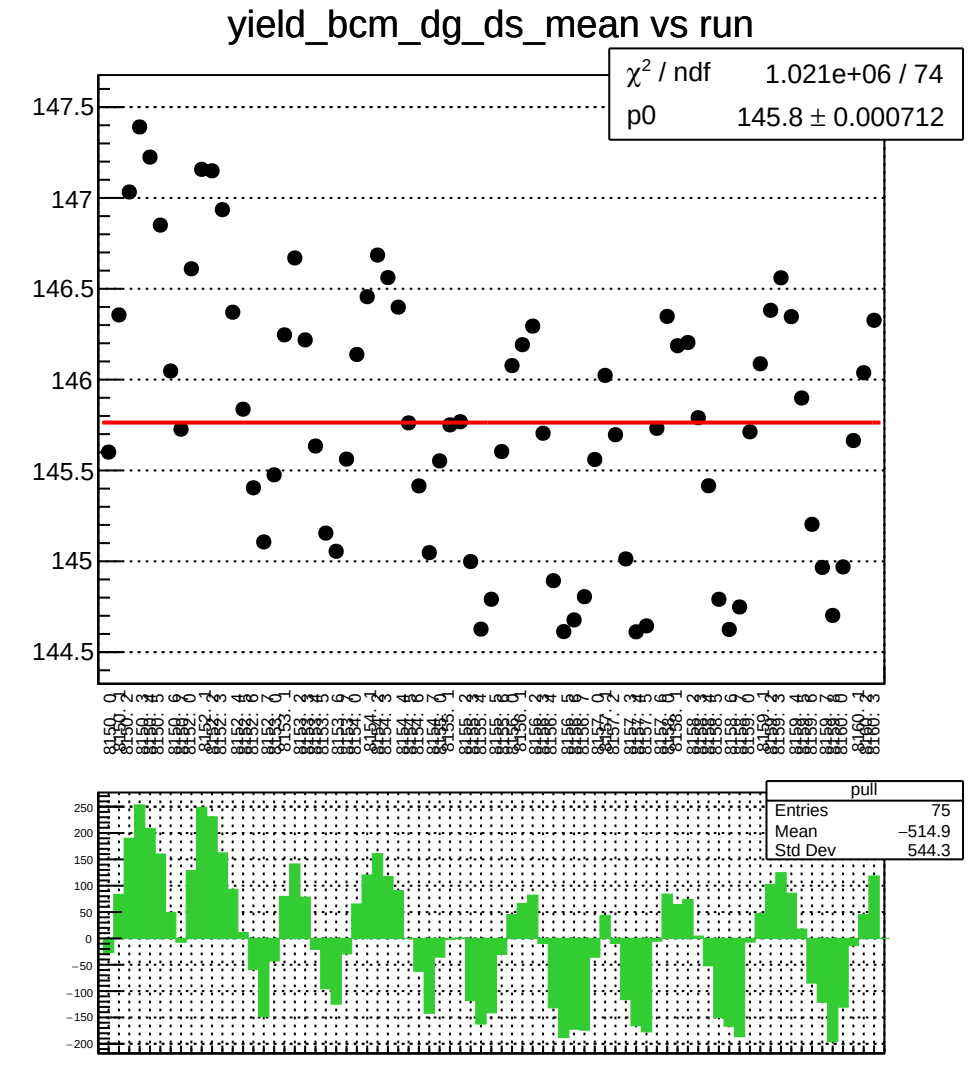

pull1D
Entries 75
Mean −0.4836
Std Dev 5.293
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

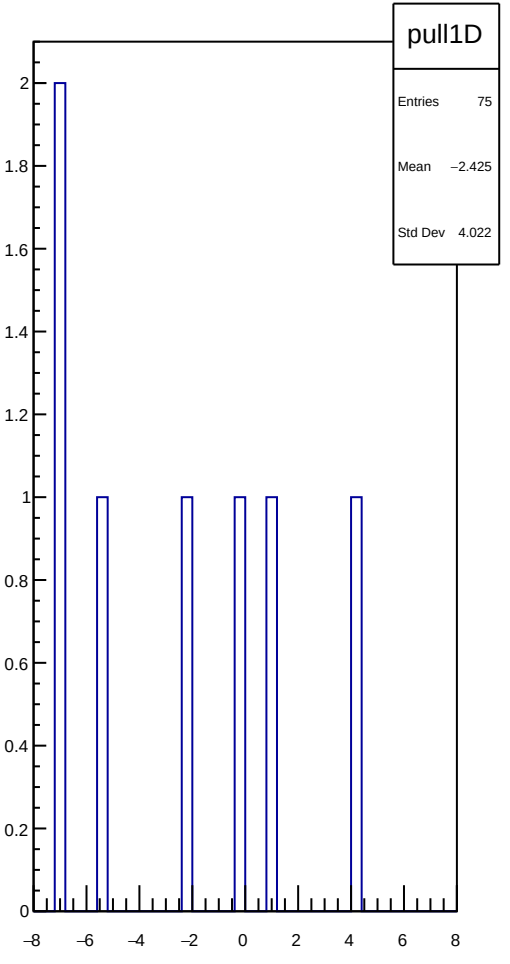

yield_bcm_an_us_rms vs run
χ² / ndf 7880 / 74
p0 0.59 ± 0.0004922
0.7
0.65
0.6
0.55
0.5

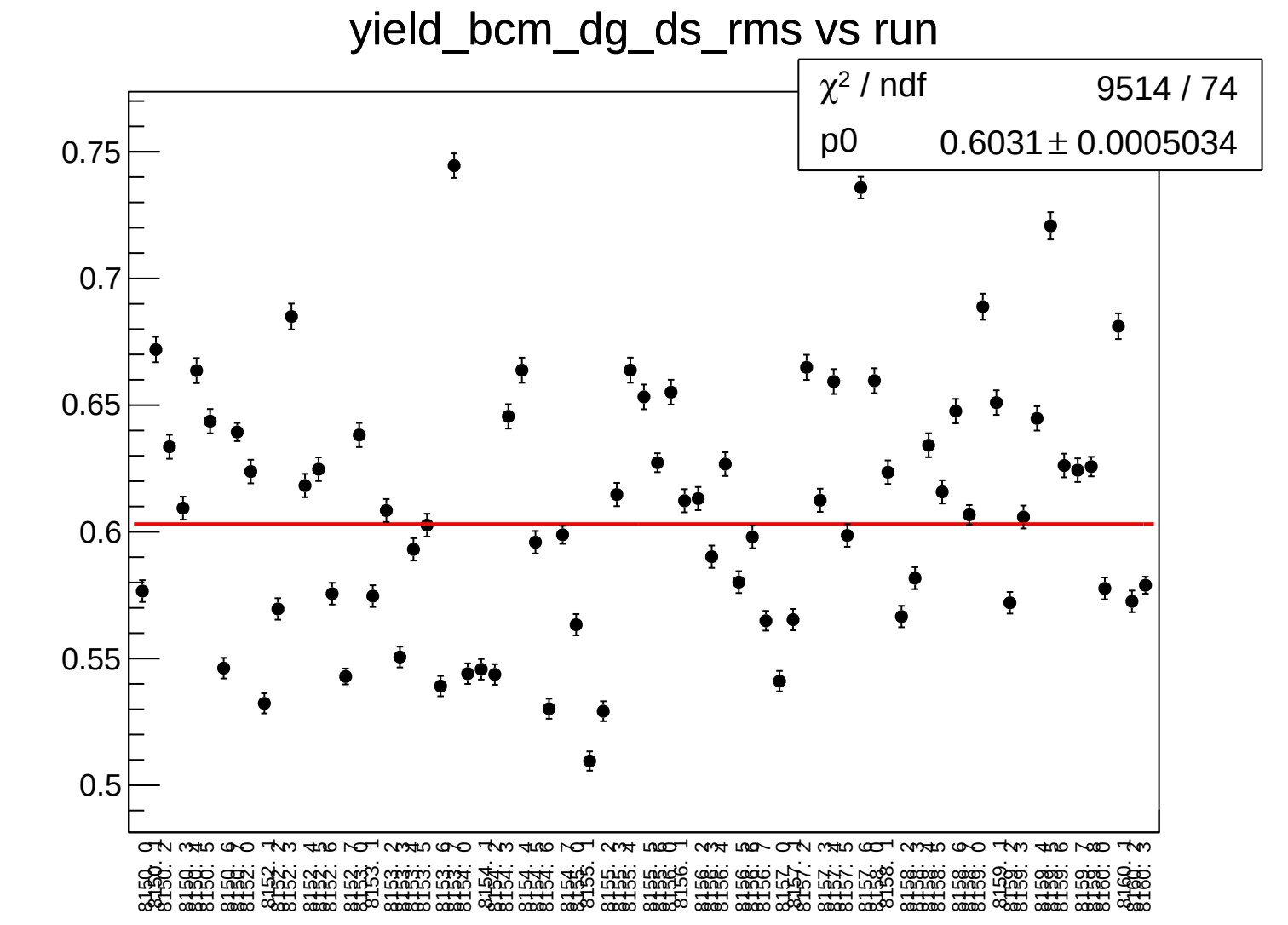

yield_bcm_dg_us_mean vs run
χ² / ndf 8.129e+05 / 74
p0 145.8 ± 0.0007058
147.5
147
146.5
146
145.5
145
pull
Entries 75
Mean −509.8
Std Dev 539.3
250
200
150
100
50
0
−50
−100
−150
−200

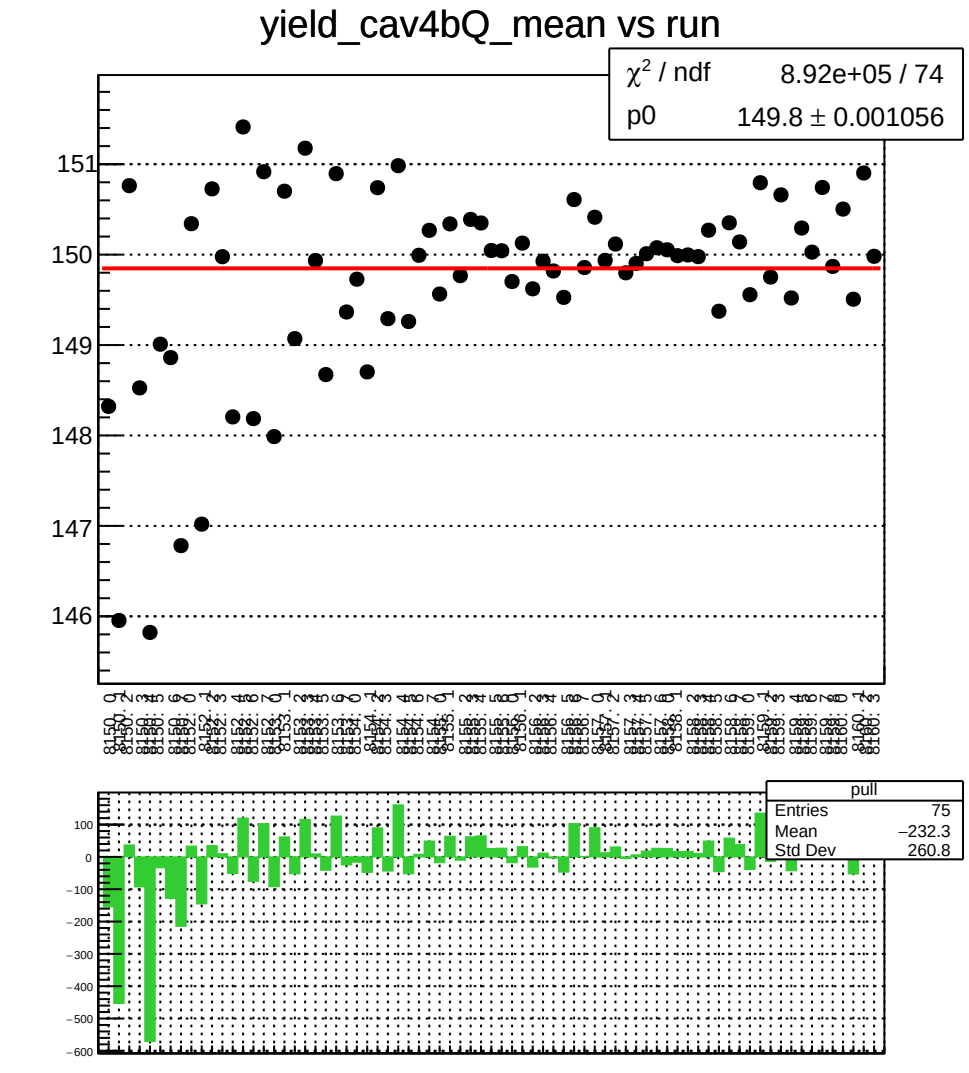

pull1D
Entries 75
Mean −2.537
Std Dev 3.041
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

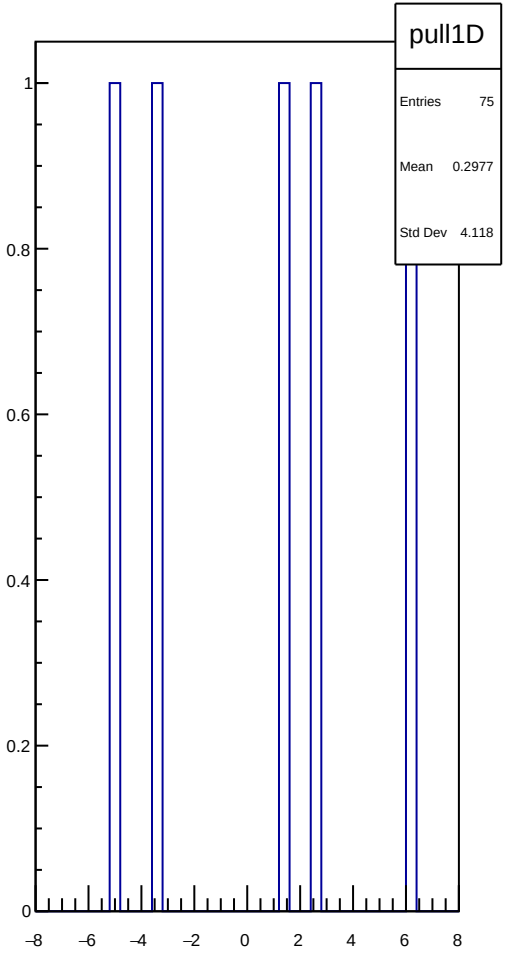

yield_bcm_dg_us_rms vs run
χ² / ndf 8492 / 74
p0 0.5981 ± 0.0004991
0.7
0.65
0.6
0.55
0.5

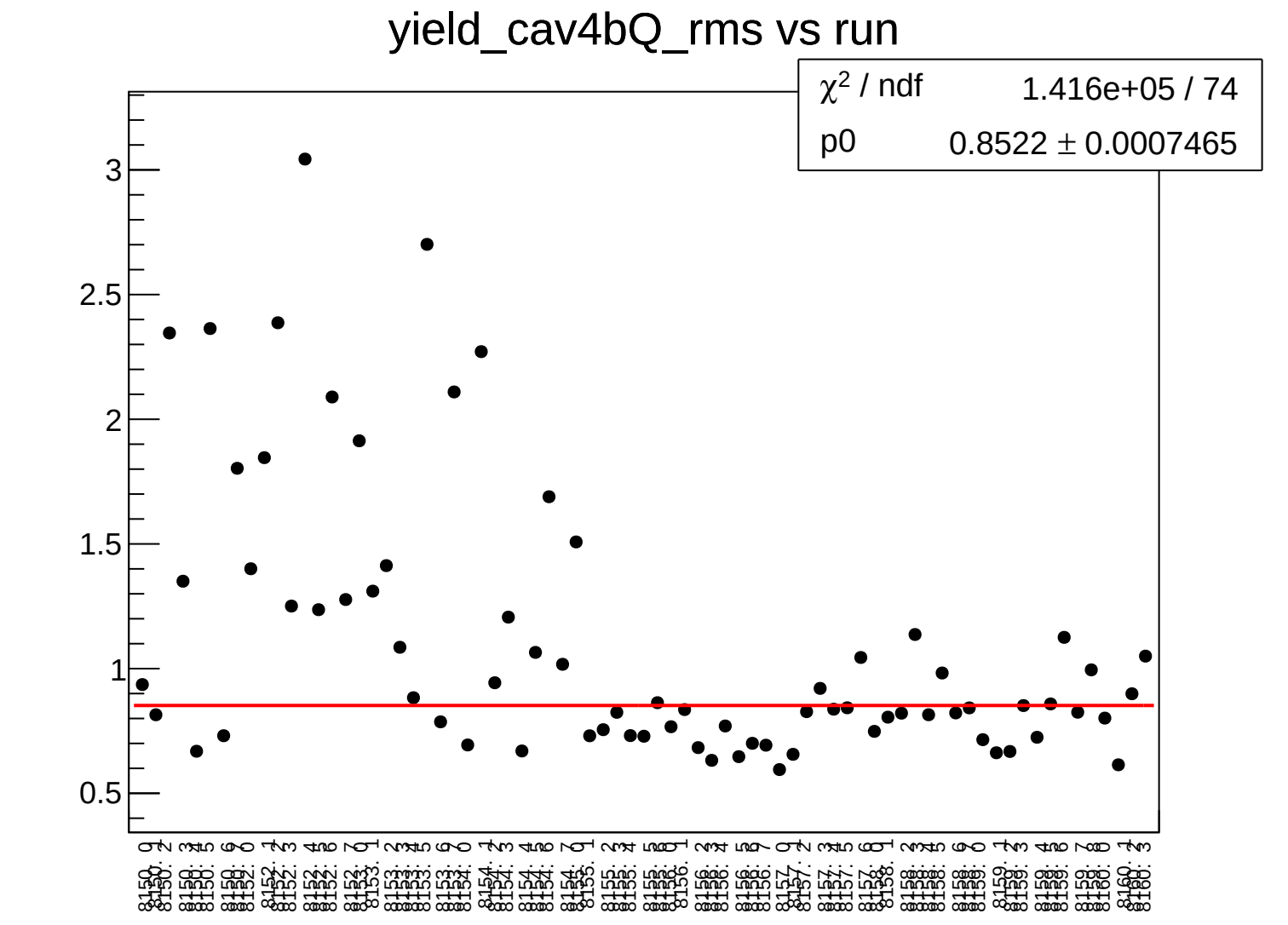

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.021e+06 / 74
p0 145.8 ± 0.000712
147.5
147
146.5
146
145.5
145
144.5
pull
Entries 75
Mean −514.9
Std Dev 544.3
250
200
150
100
50
0
−50
−100
−150
−200

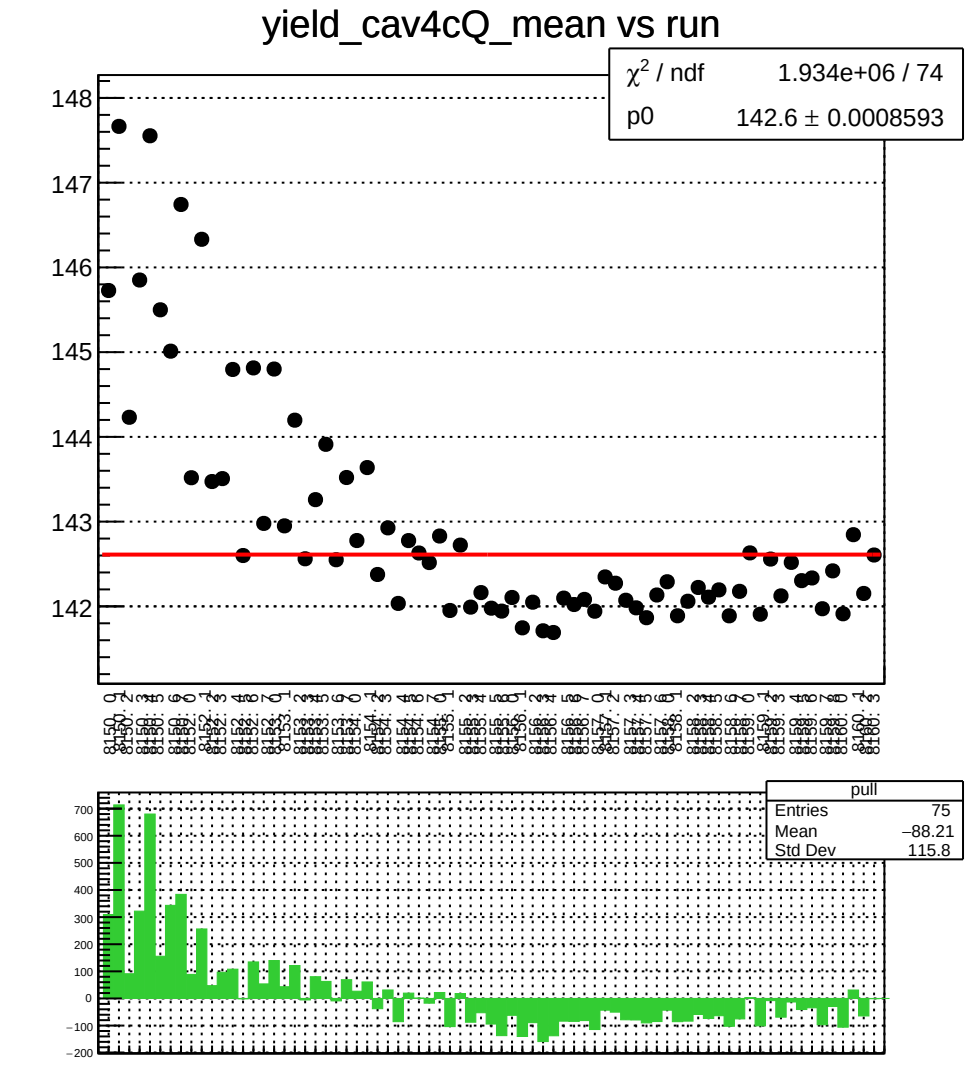

pull1D
Entries 75
Mean −2.425
Std Dev 4.022
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

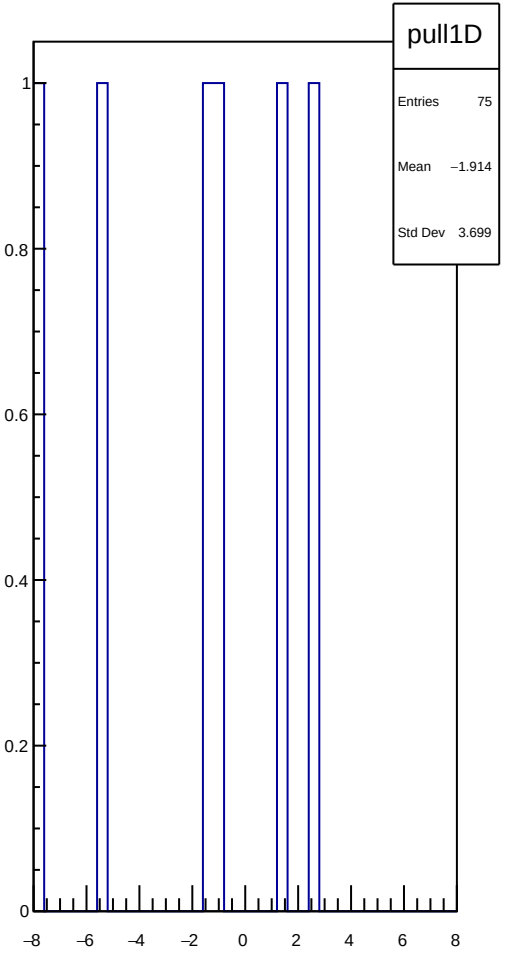

yield_bcm_dg_ds_rms vs run
χ² / ndf 9514 / 74
p0 0.6031 ± 0.0005034
0.75
0.7
0.65
0.6
0.55
0.5

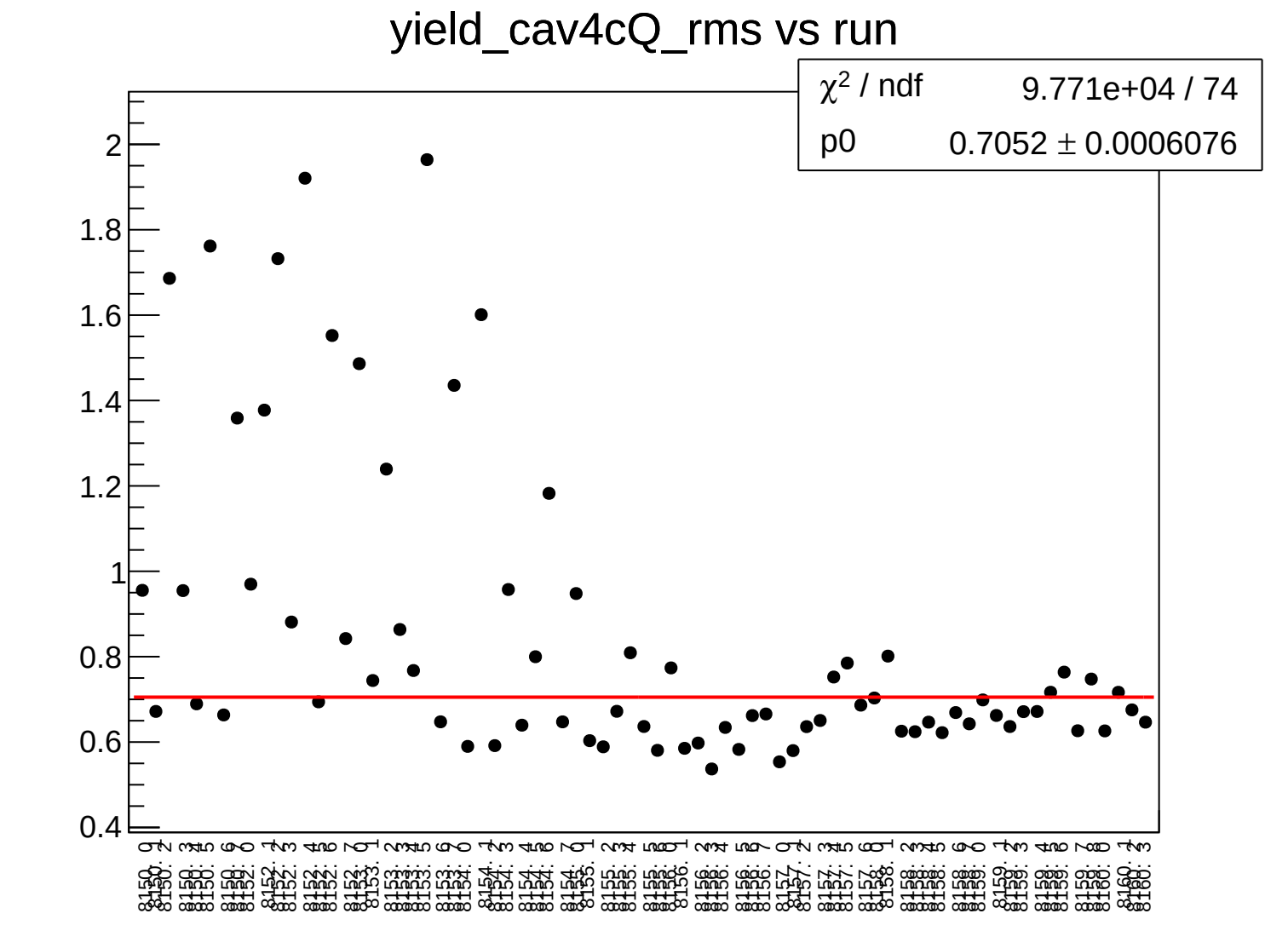

yield_cav4bQ_mean vs run
χ² / ndf 8.92e+05 / 74
p0 149.8 ± 0.001056
151
150
149
148
147
146
pull
Entries 75
Mean −232.3
Std Dev 260.8
100
0
−100
−200
−300
−400
−500
−600

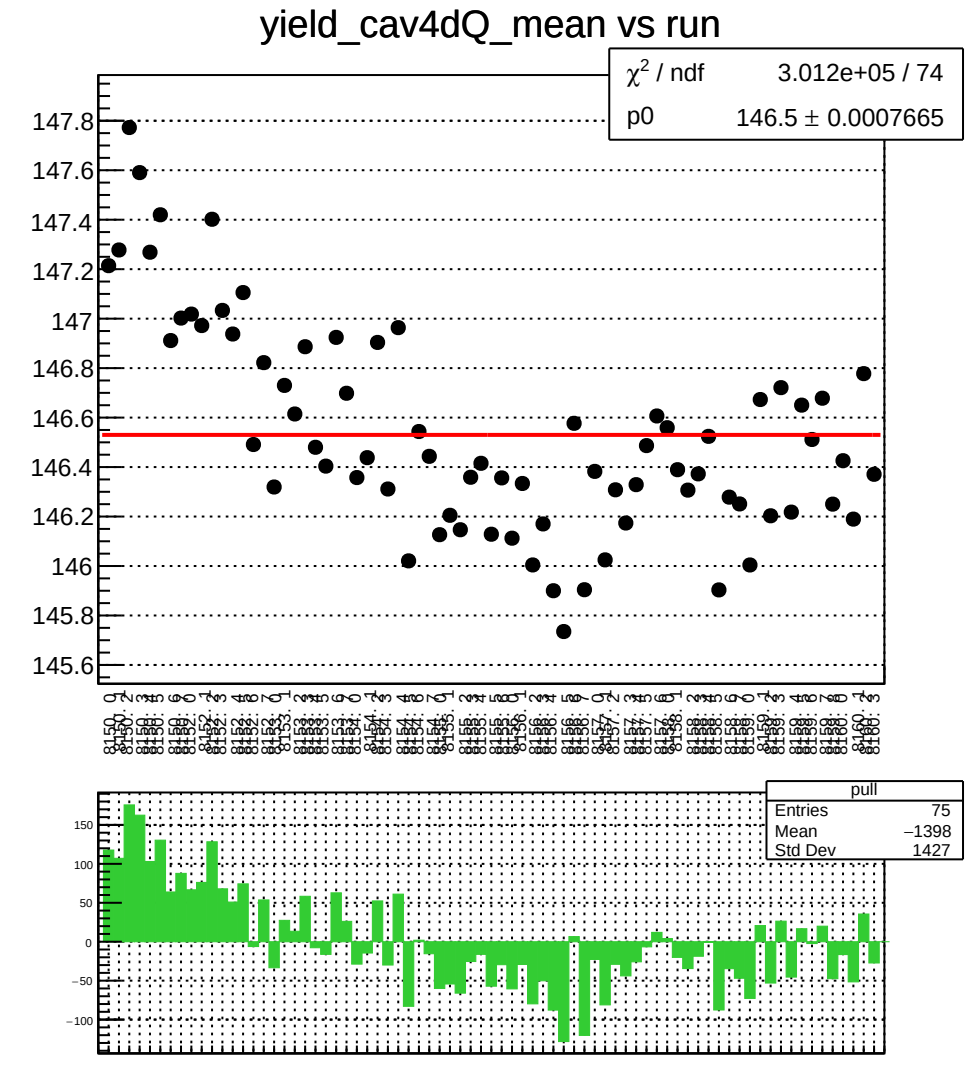

pull1D
Entries 75
Mean 0.2977
Std Dev 4.118
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

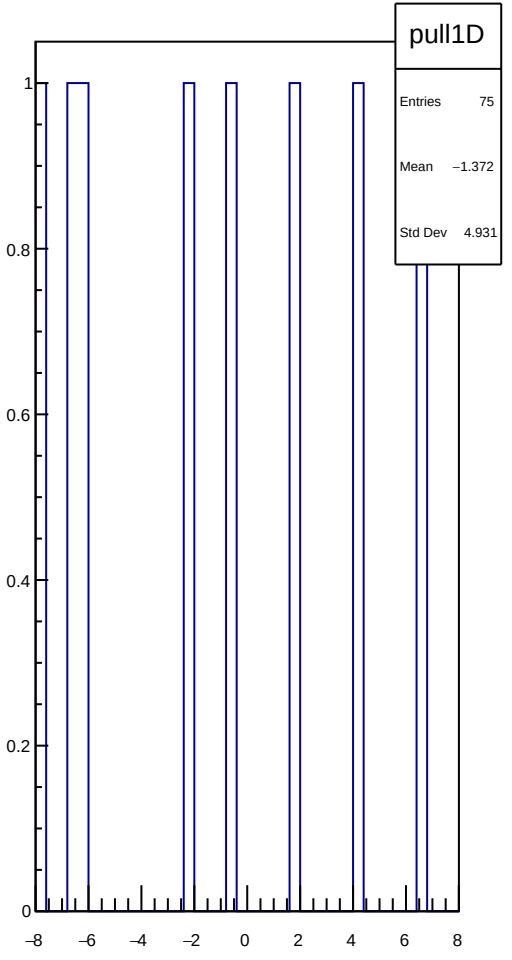

yield_cav4bQ_rms vs run
χ² / ndf 1.416e+05 / 74
p0 0.8522 ± 0.0007465
3
2.5
2
1.5
1
0.5

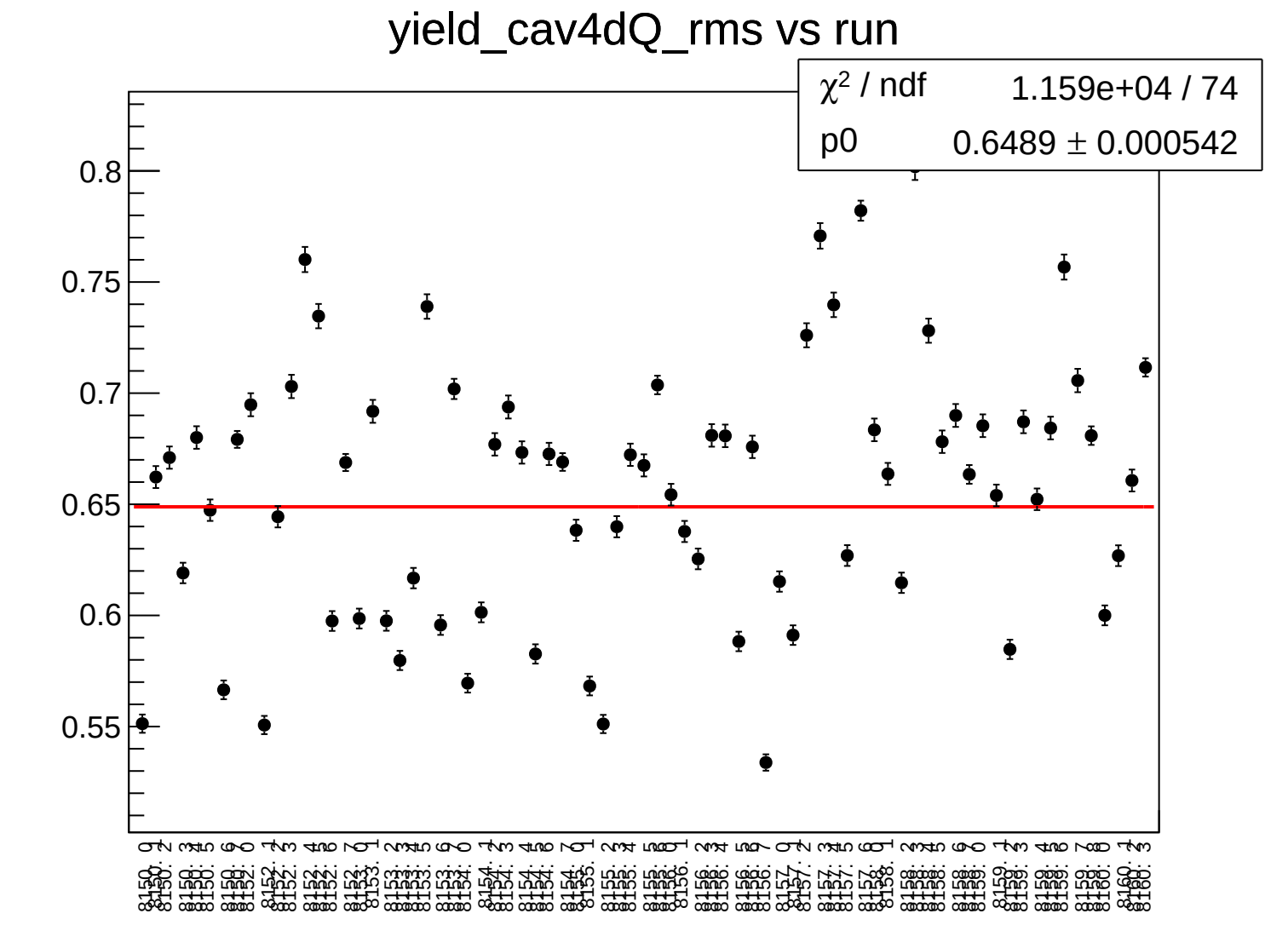

yield_cav4cQ_mean vs run
χ² / ndf 1.934e+06 / 74
p0 142.6 ± 0.0008593
148
147
146
145
144
143
142
pull
Entries 75
Mean −88.21
Std Dev 115.8
700
600
500
400
300
200
100
0
−100
−200

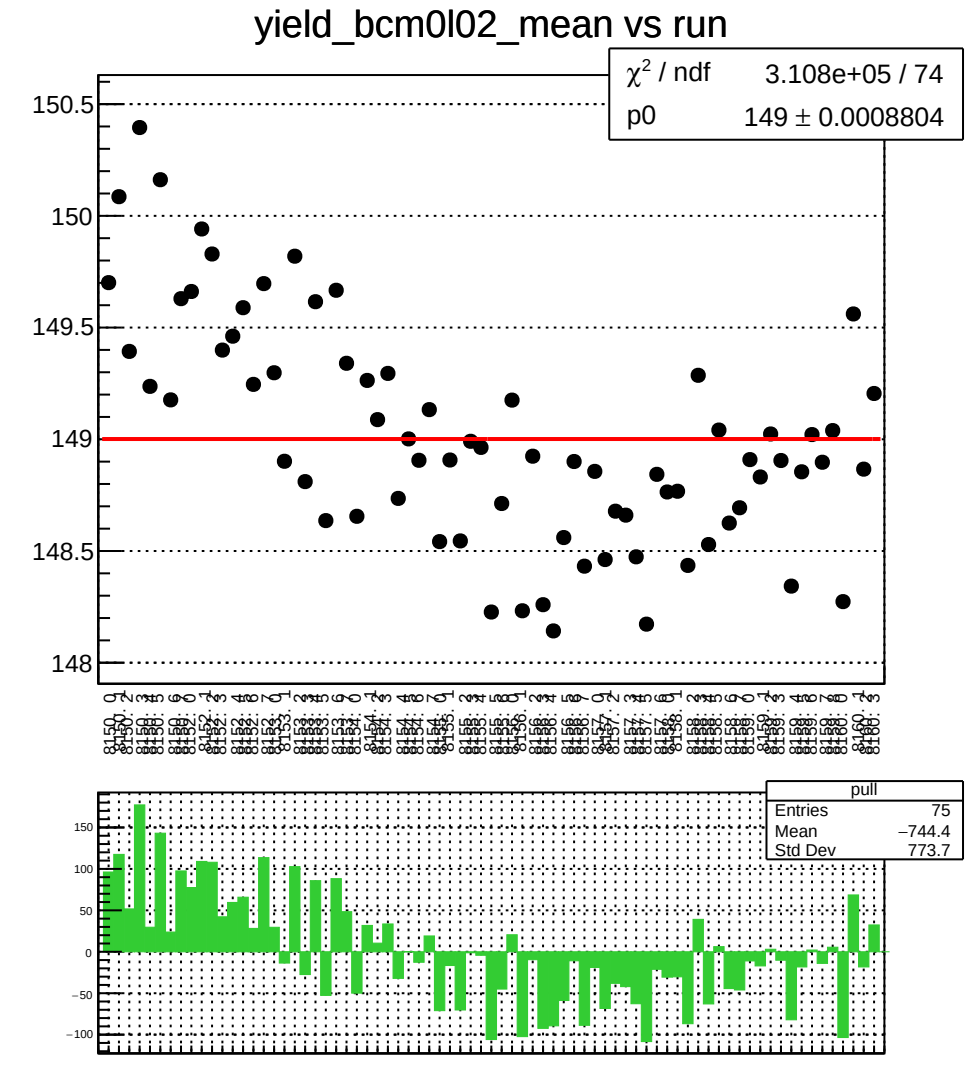

pull1D
Entries 75
Mean −1.914
Std Dev 3.699
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

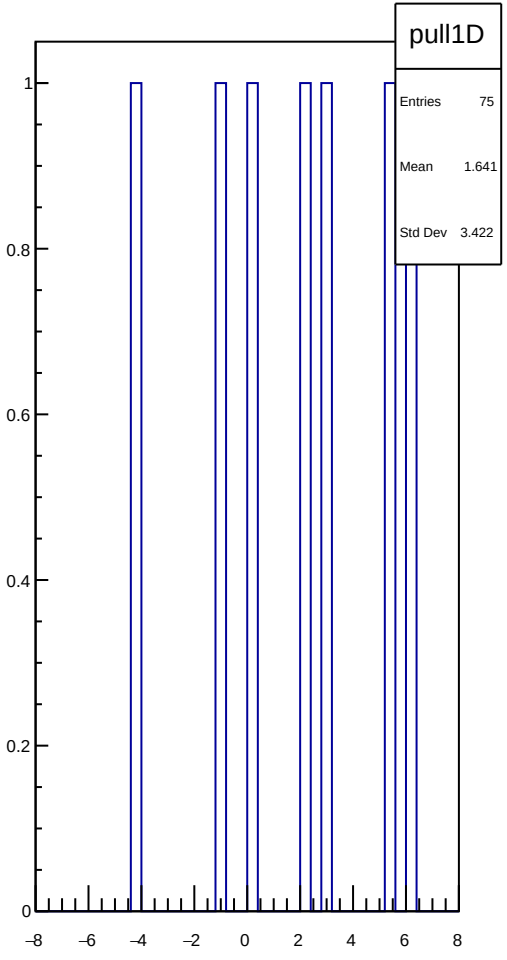

yield_cav4cQ_rms vs run
χ^2 / ndf 9.771e+04 / 74
p0 0.7052 ± 0.0006076
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

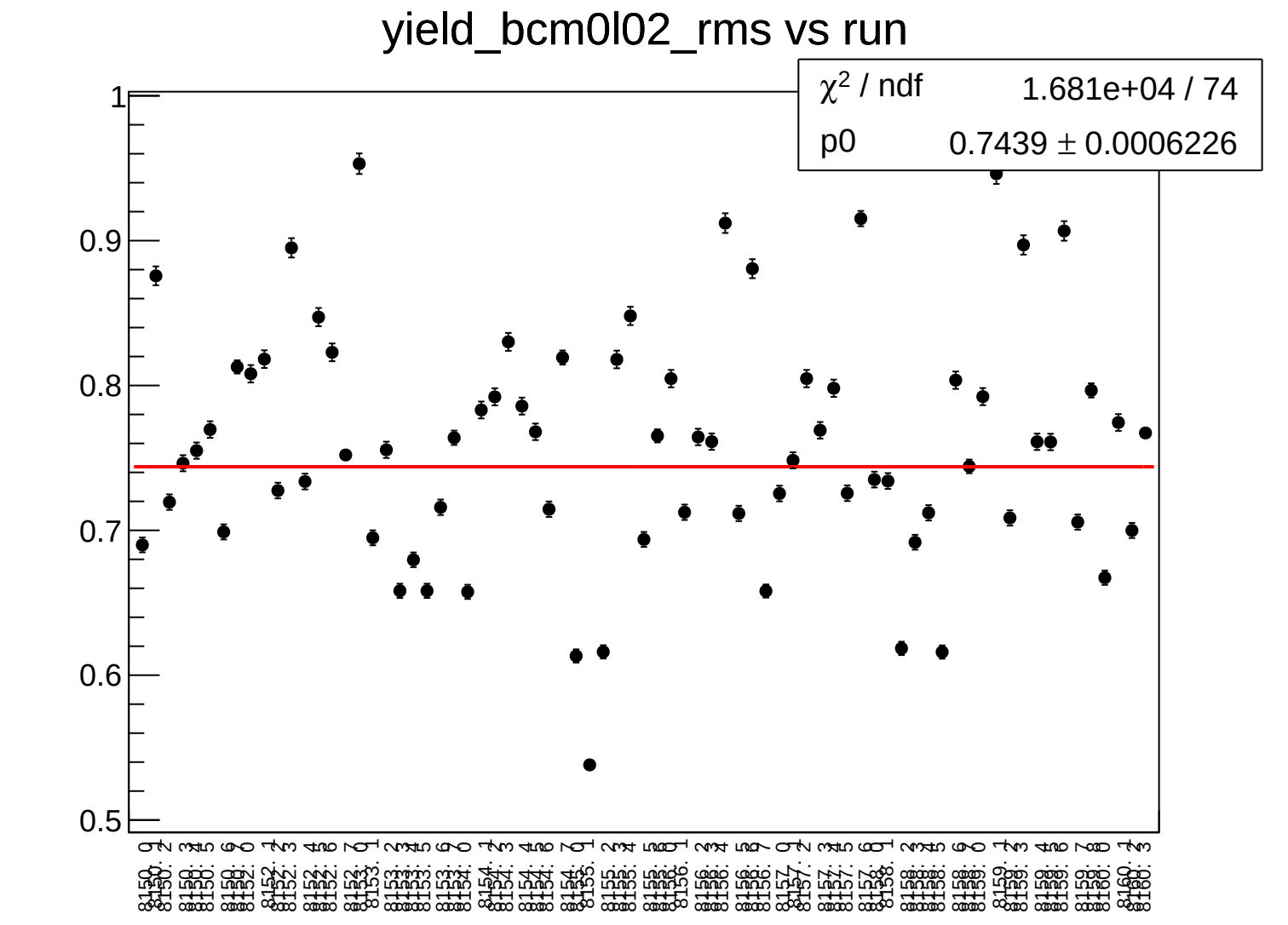

yield_cav4dQ_mean vs run
χ² / ndf 3.012e+05 / 74
p0 146.5 ± 0.0007665
147.8
147.6
147.4
147.2
147
146.8
146.6
146.4
146.2
146
145.8
145.6
pull
Entries 75
Mean −1398
Std Dev 1427
150
100
50
0
−50
−100

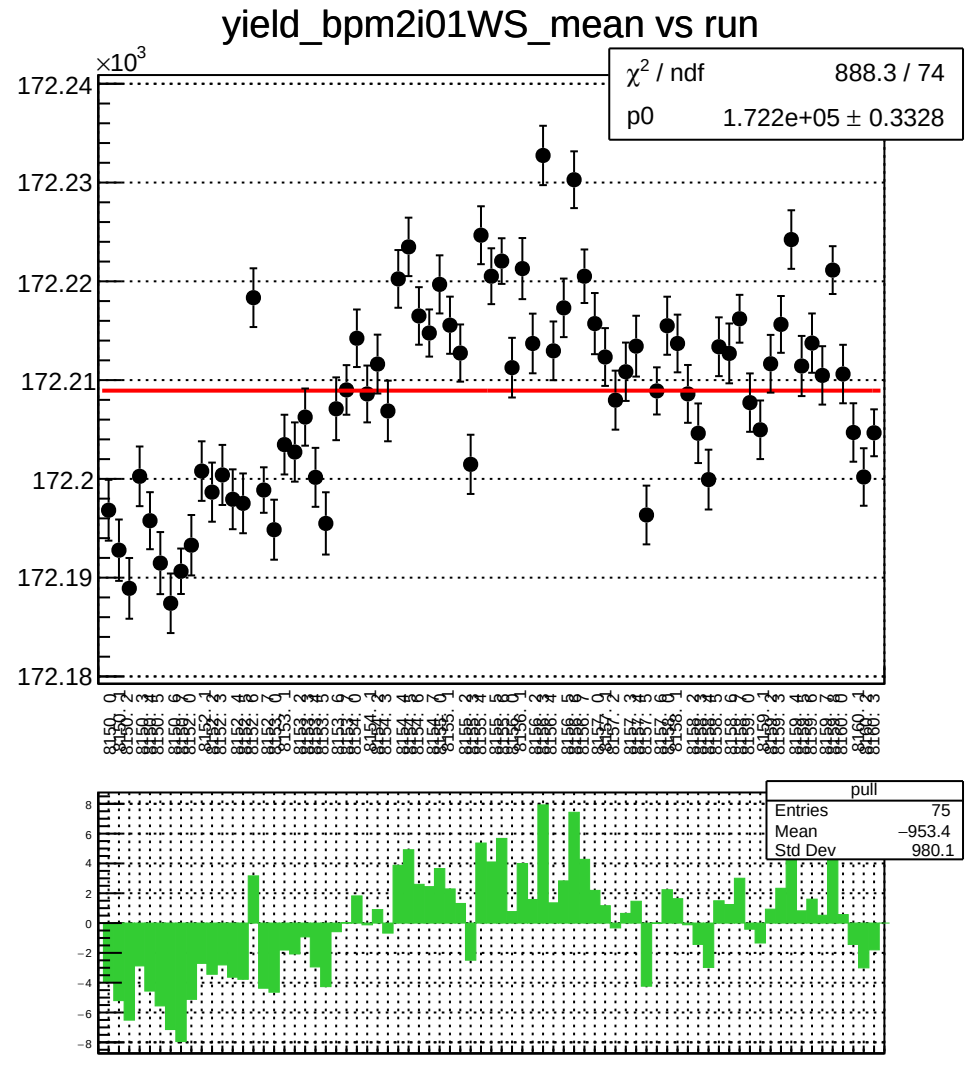

pull1D
Entries 75
Mean −1.372
Std Dev 4.931
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

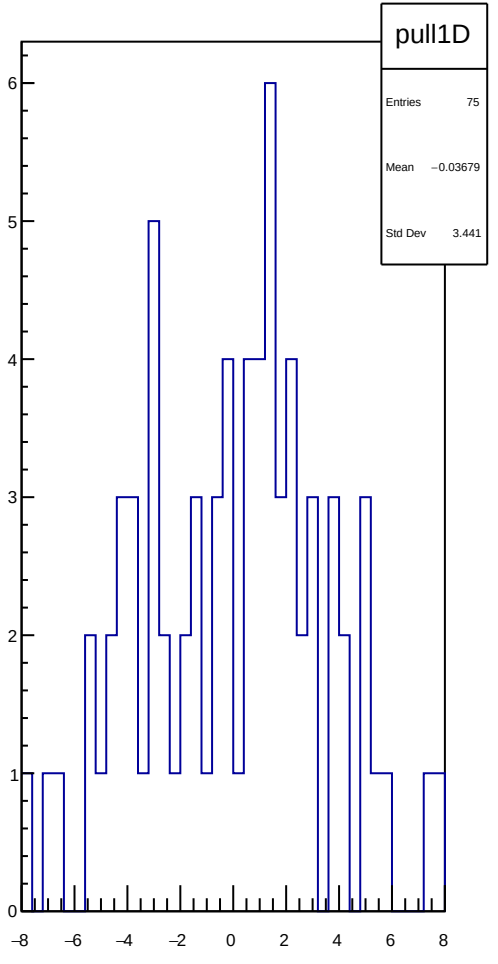

yield_cav4dQ_rms vs run
χ² / ndf 1.159e+04 / 74
p0 0.6489 ± 0.000542
0.8
0.75
0.7
0.65
0.6
0.55

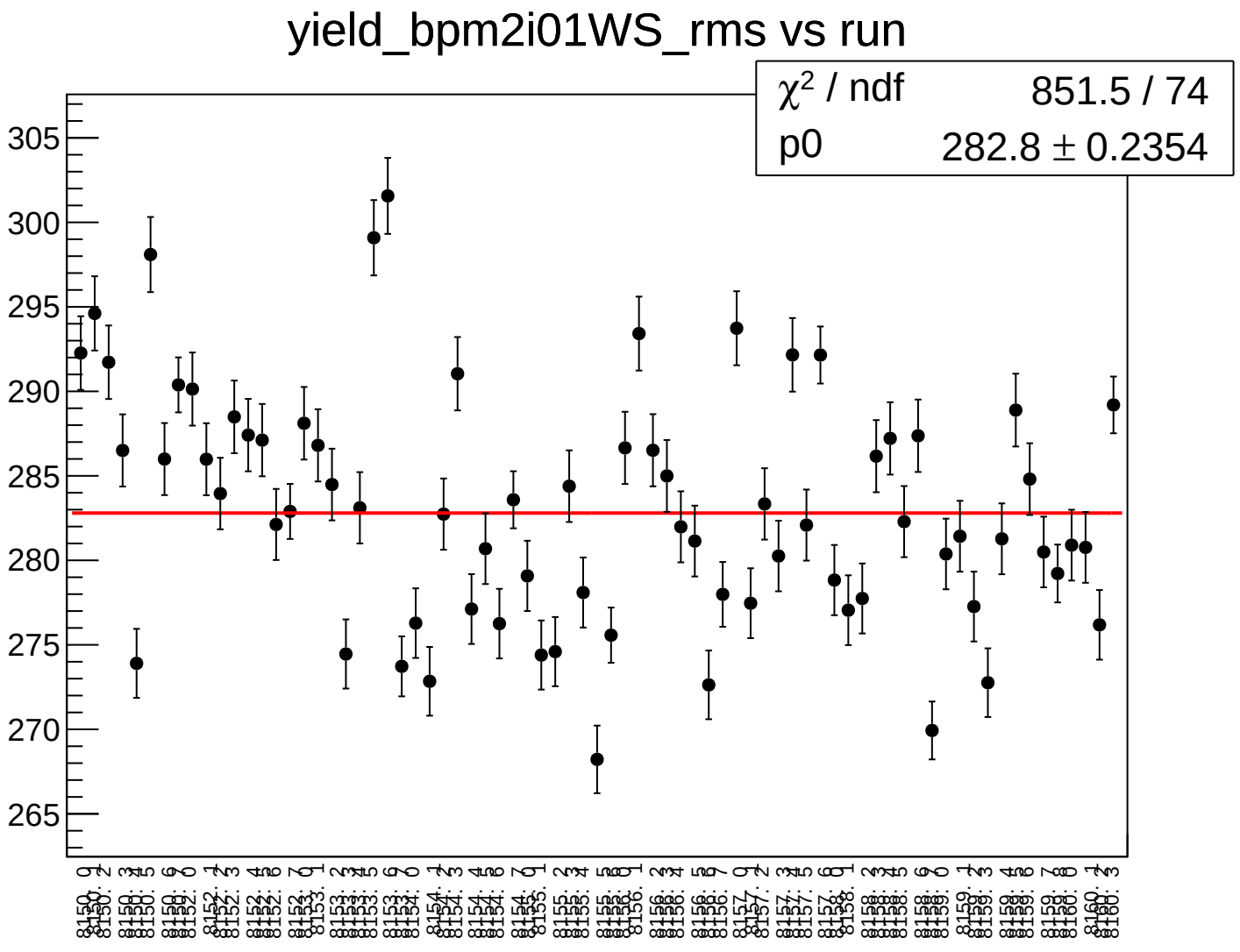

yield_bcm0l02_mean vs run
χ² / ndf 3.108e+05 / 74
p0 149 ± 0.0008804
150.5
150
149.5
149
148.5
148
pull
Entries 75
Mean −744.4
Std Dev 773.7
150
100
50
0
−50
−100

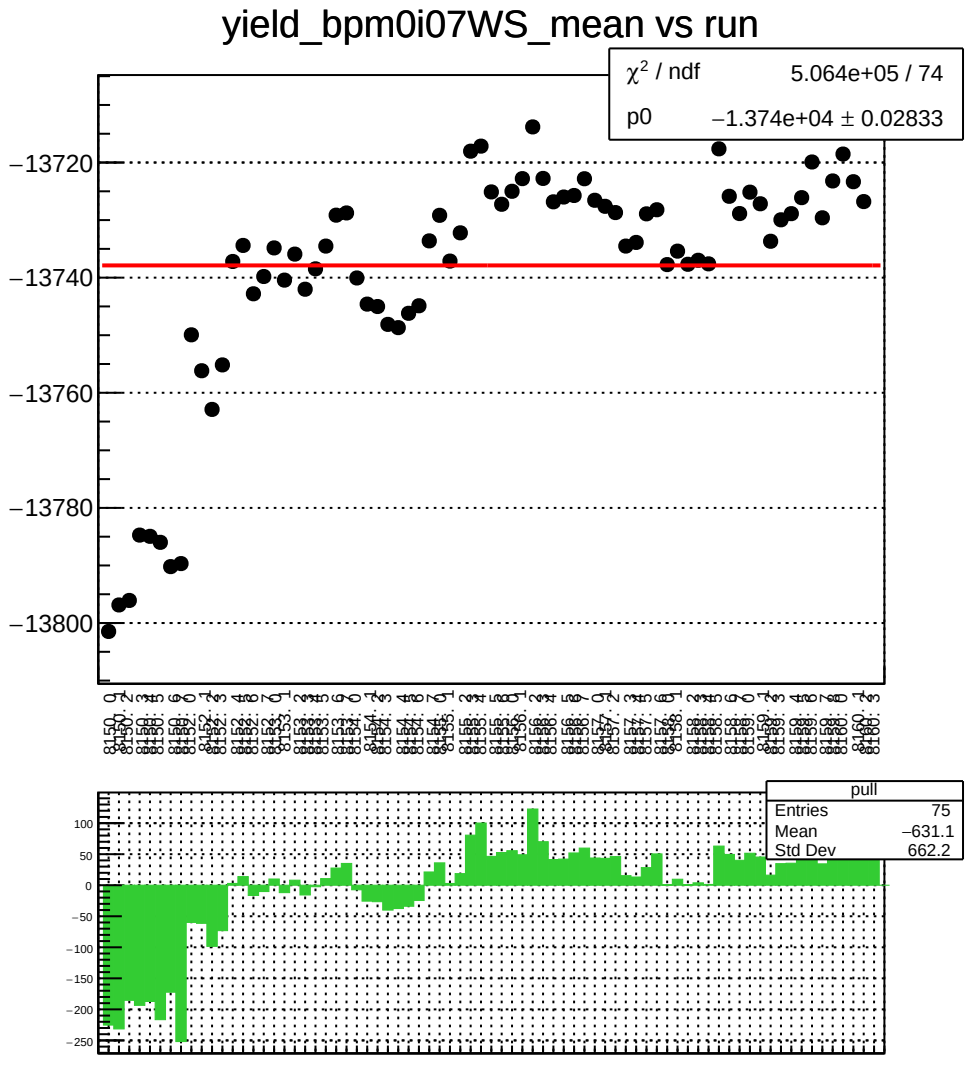

pull1D
Entries 75
Mean 1.641
Std Dev 3.422
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

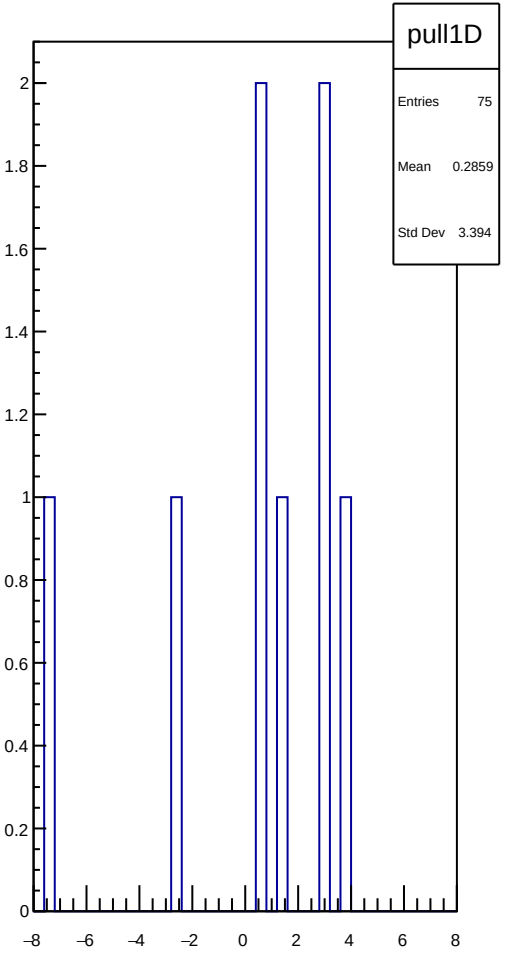

yield_bcm0l02_rms vs run
χ² / ndf 1.681e+04 / 74
p0 0.7439 ± 0.0006226
1
0.9
0.8
0.7
0.6
0.5

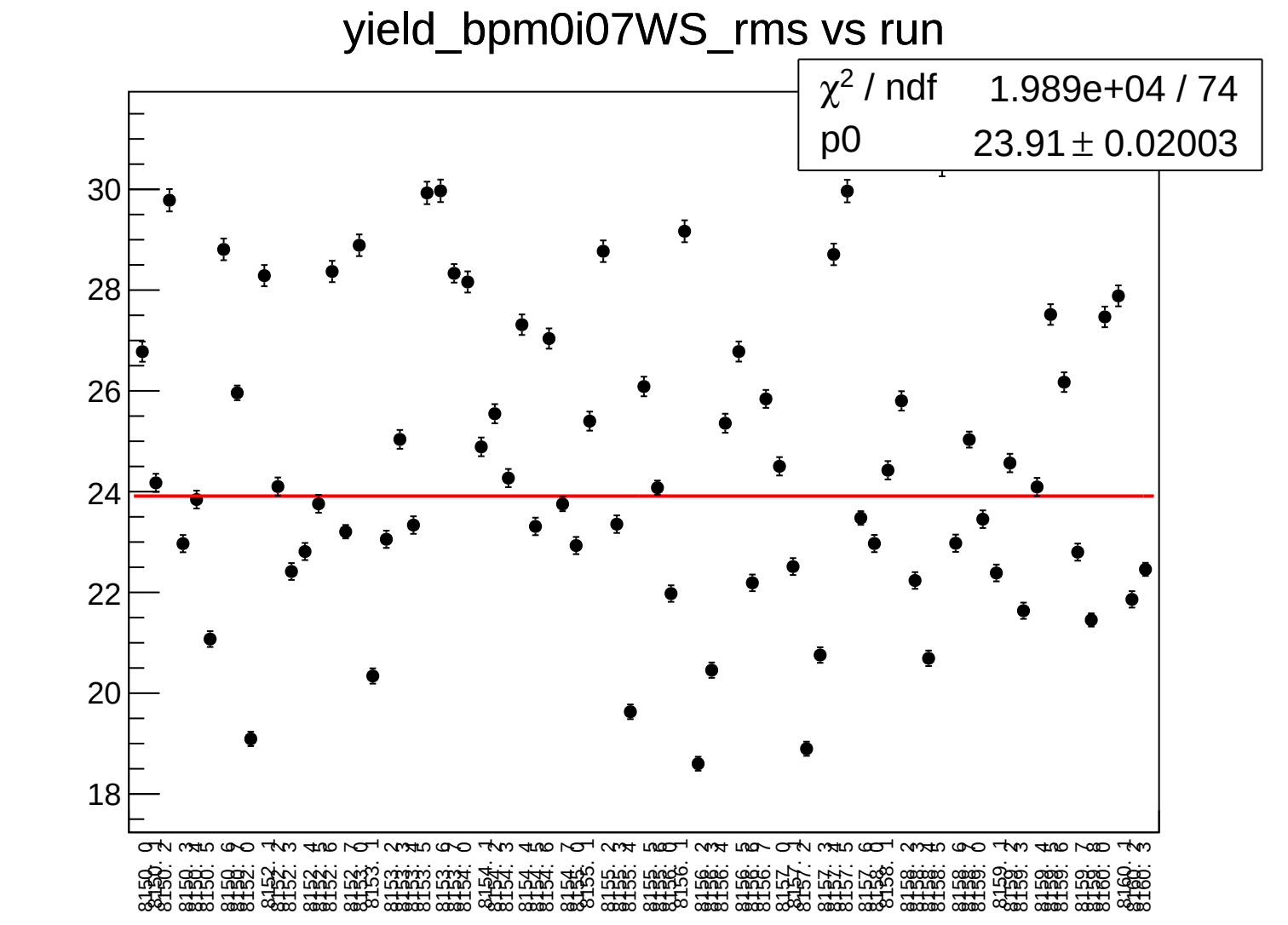

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 888.3 / 74
p0 1.722e+05 ± 0.3328
172.24
172.23
172.22
172.21
172.2
172.19
172.18
pull
Entries 75
Mean −953.4
Std Dev 980.1

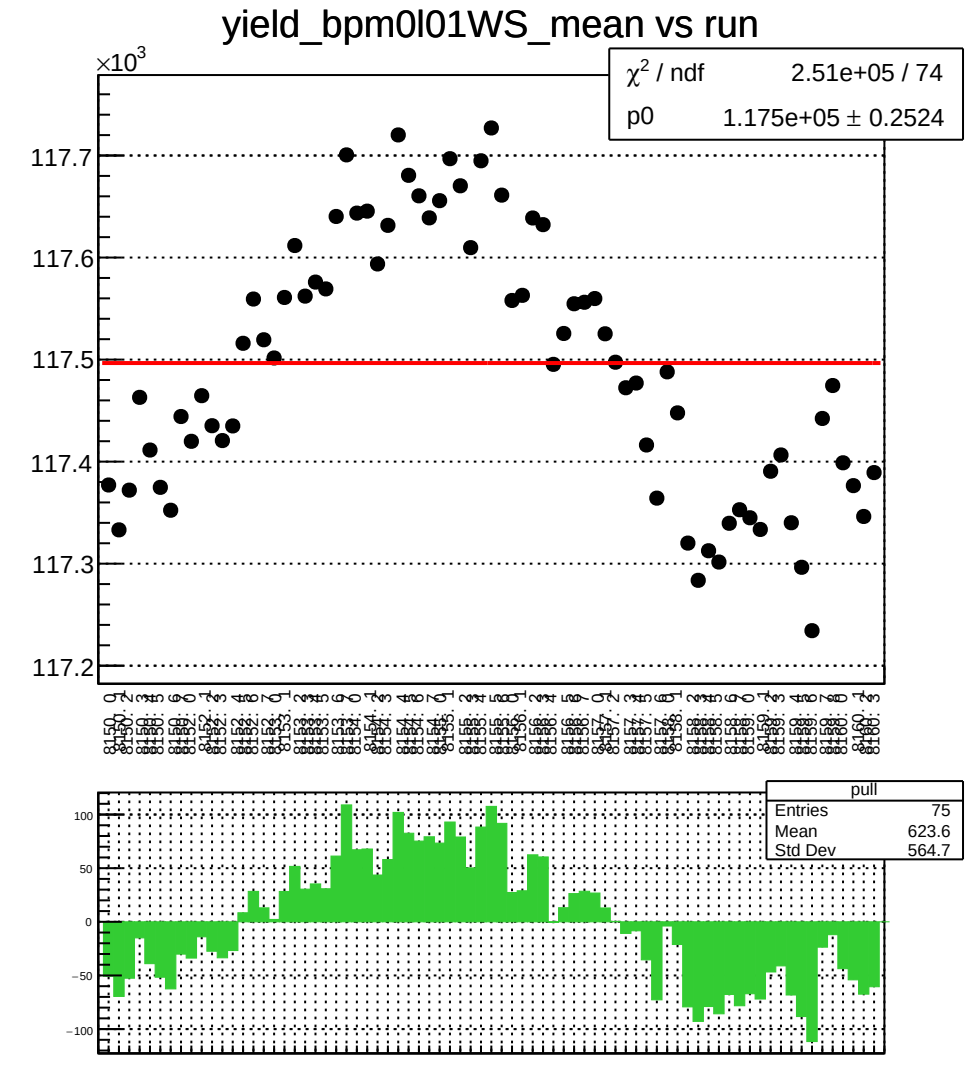

pull1D
Entries 75
Mean −0.03679
Std Dev 3.441

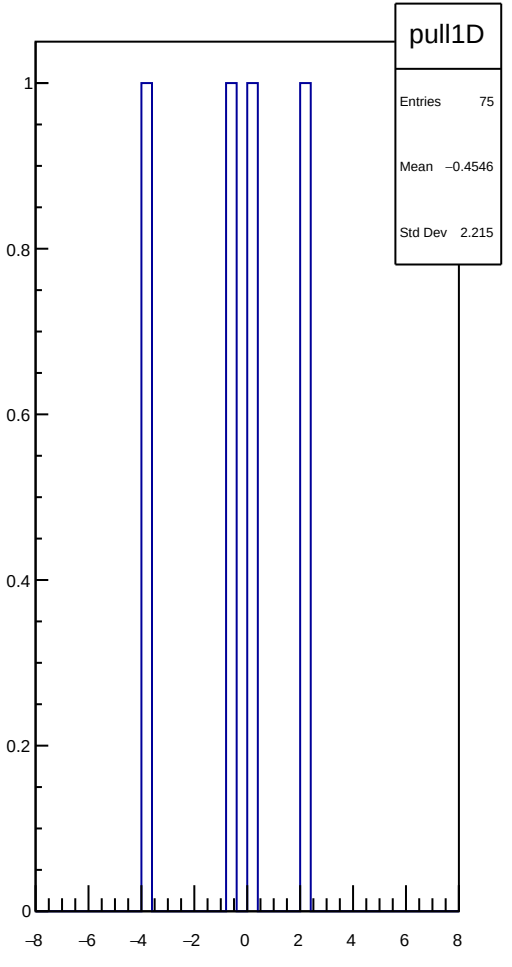

yield_bpm2i01WS_rms vs run
χ² / ndf 851.5 / 74
p0 282.8 ± 0.2354
305
300
295
290
285
280
275
270
265

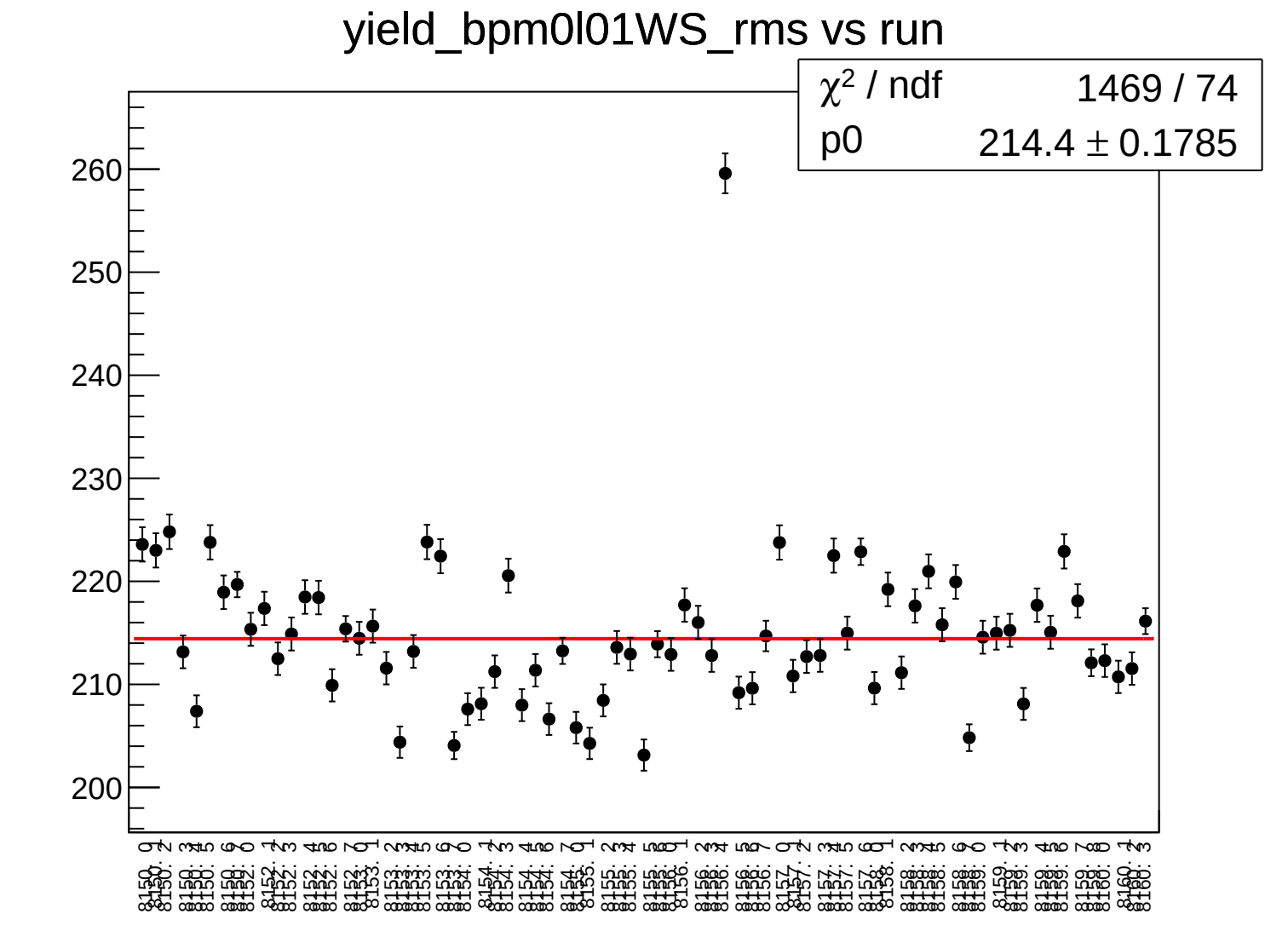

yield_bpm0i07WS_mean vs run
χ² / ndf 5.064e+05 / 74
p0 −1.374e+04 ± 0.02833
−13720
−13740
−13760
−13780
−13800
pull
Entries 75
Mean −631.1
Std Dev 662.2
100
50
0
−50
−100
−150
−200
−250

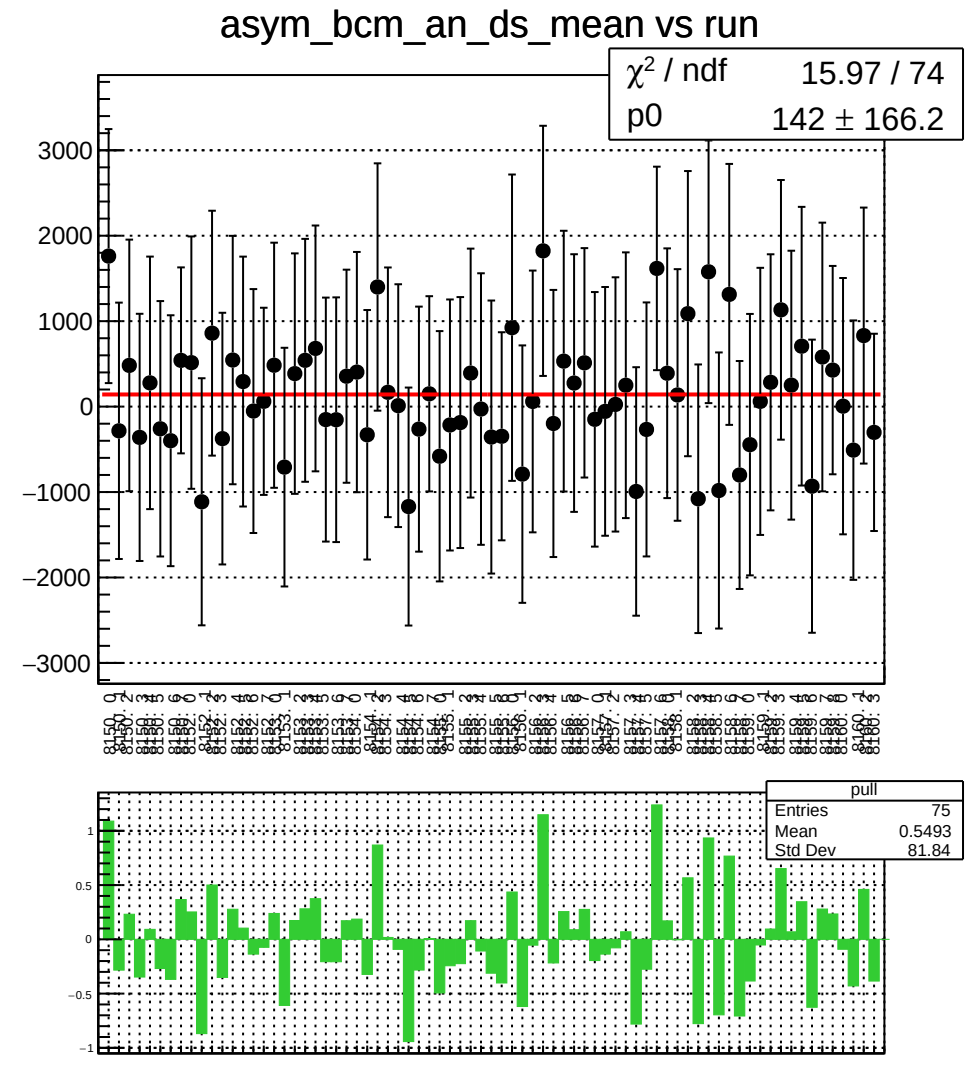

pull1D
Entries 75
Mean 0.2859
Std Dev 3.394
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

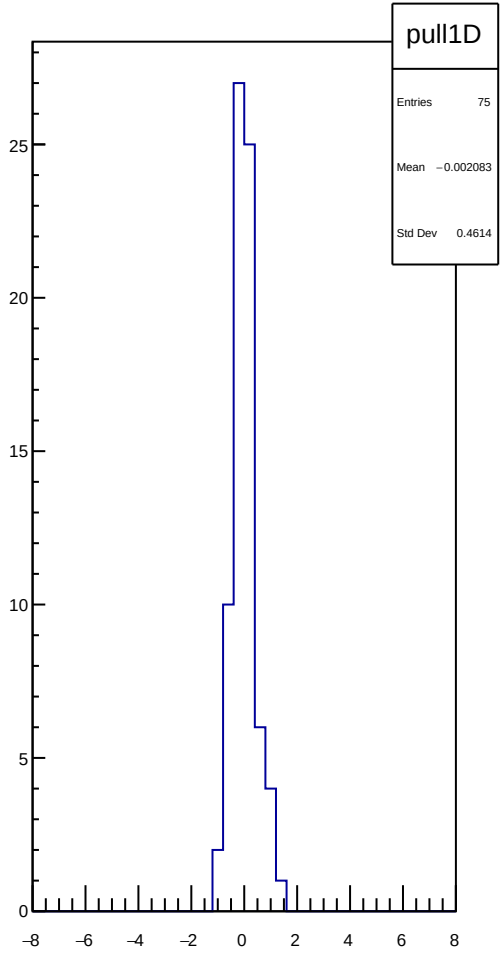

yield_bpm0i07WS_rms vs run
χ^2 / ndf 1.989e+04 / 74
p0 23.91 ± 0.02003
30
28
26
24
22
20
18

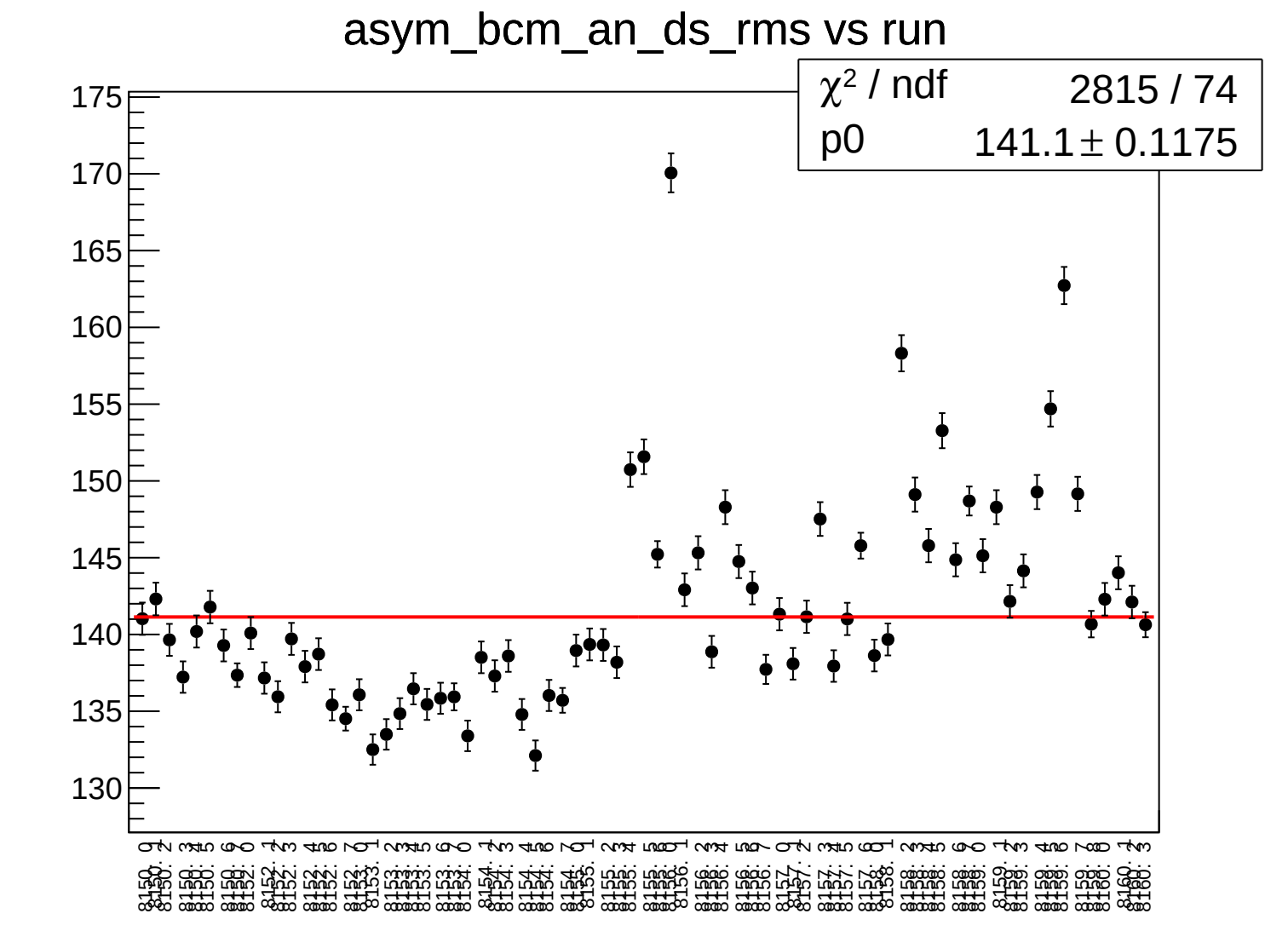

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.51e+05 / 74
p0 1.175e+05 ± 0.2524
117.7
117.6
117.5
117.4
117.3
117.2
pull
Entries 75
Mean 623.6
Std Dev 564.7
100
50
0
−50
−100

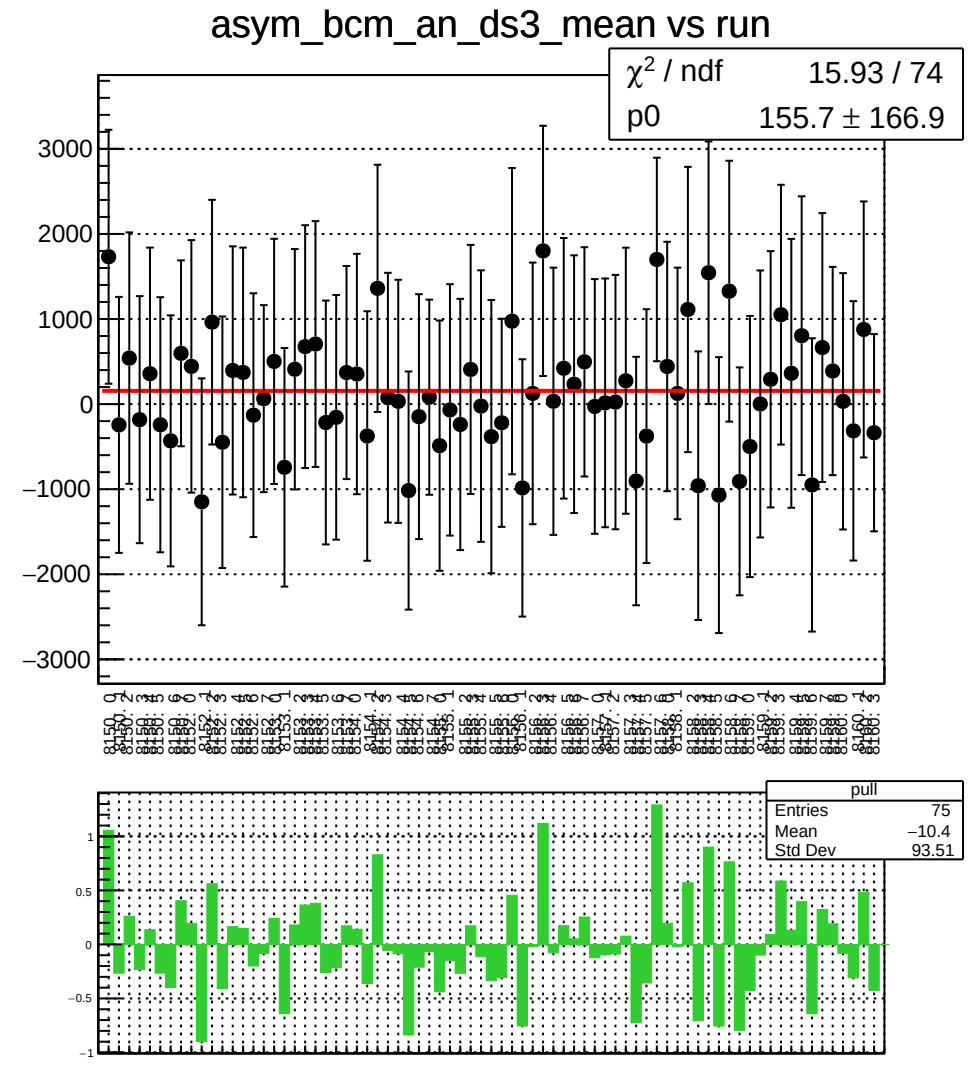

pull1D
Entries 75
Mean −0.4546
Std Dev 2.215
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

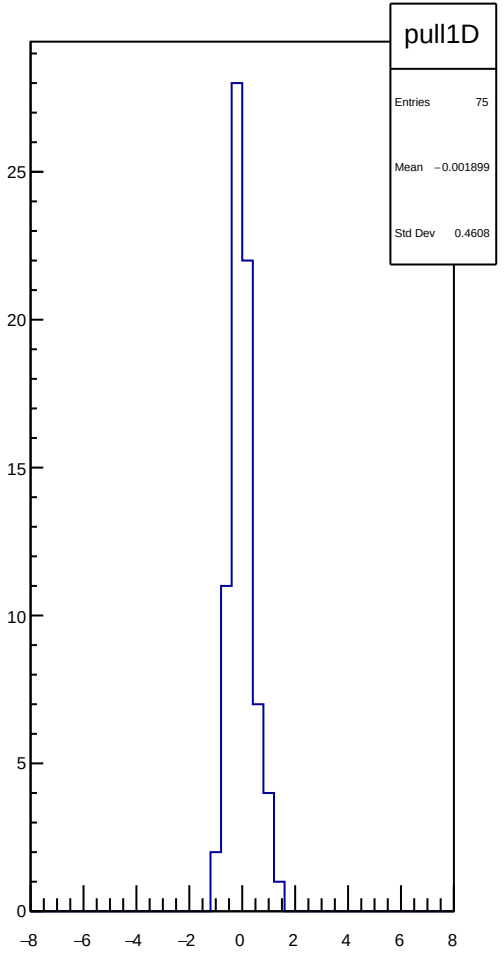

yield_bpm0l01WS_rms vs run
χ² / ndf 1469 / 74
p0 214.4 ± 0.1785
260
250
240
230
220
210
200

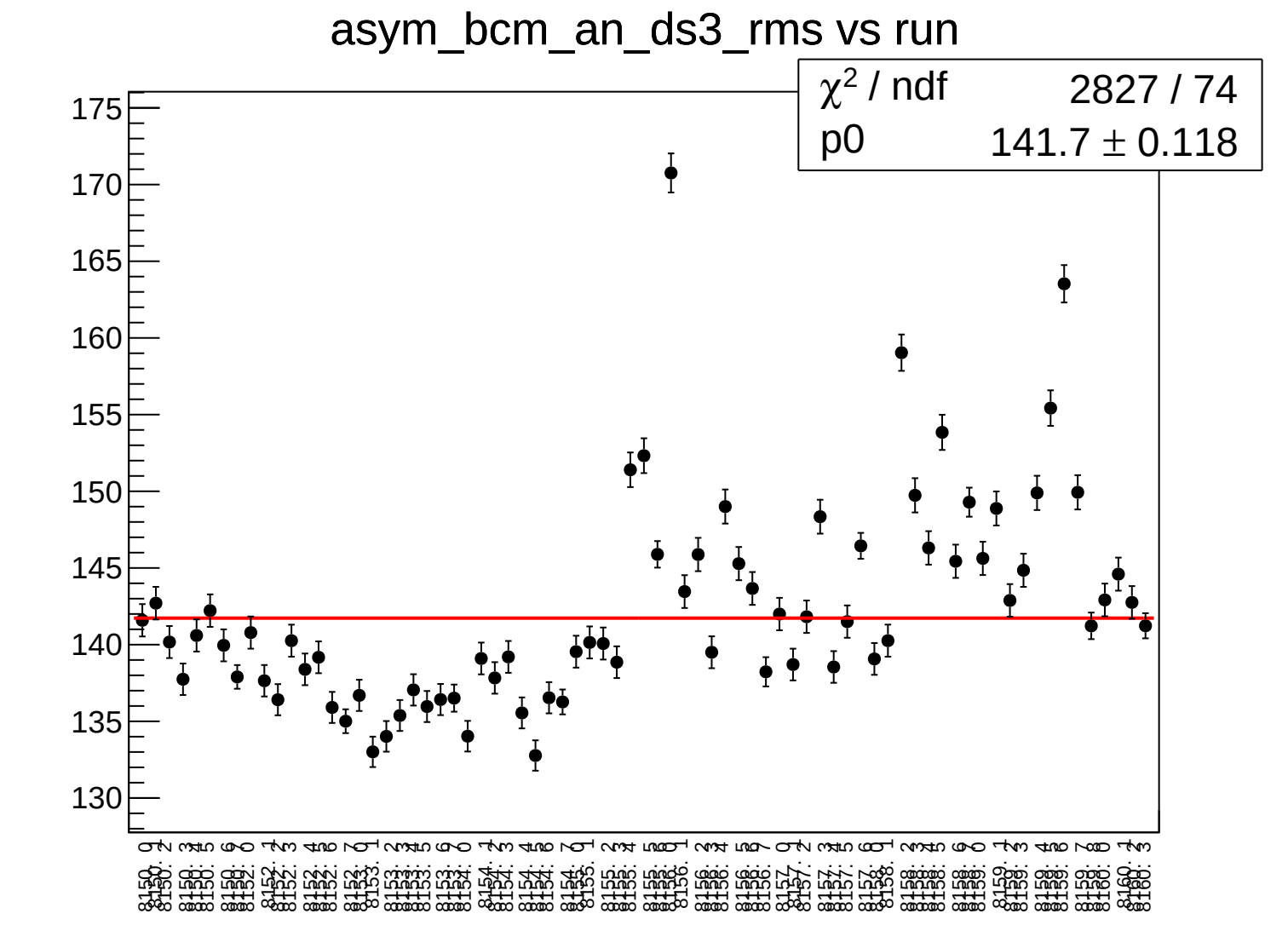

asym_bcm_an_ds_mean vs run
χ² / ndf 15.97 / 74
p0 142 ± 166.2
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 75
Mean 0.5493
Std Dev 81.84
1
0.5
0
−0.5
−1

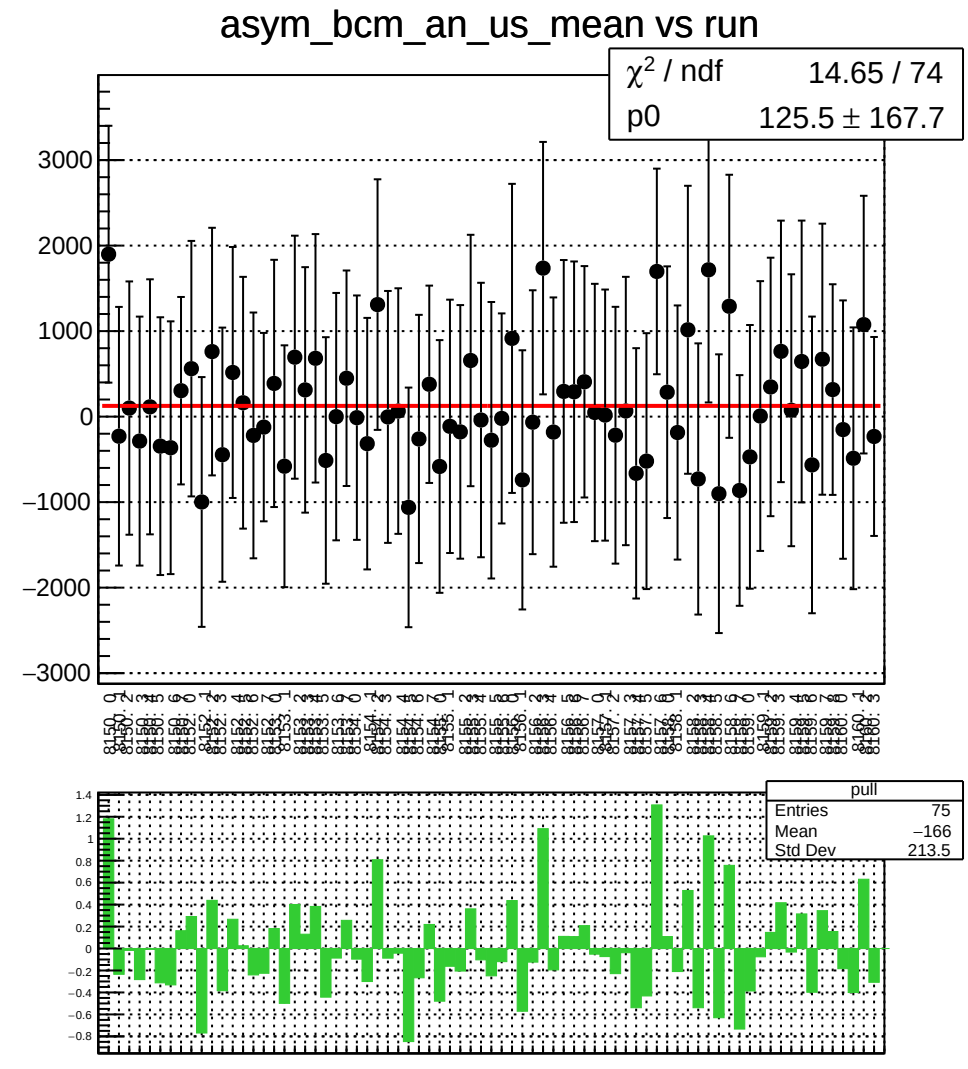

pull1D
Entries 75
Mean −0.002083
Std Dev 0.4614
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

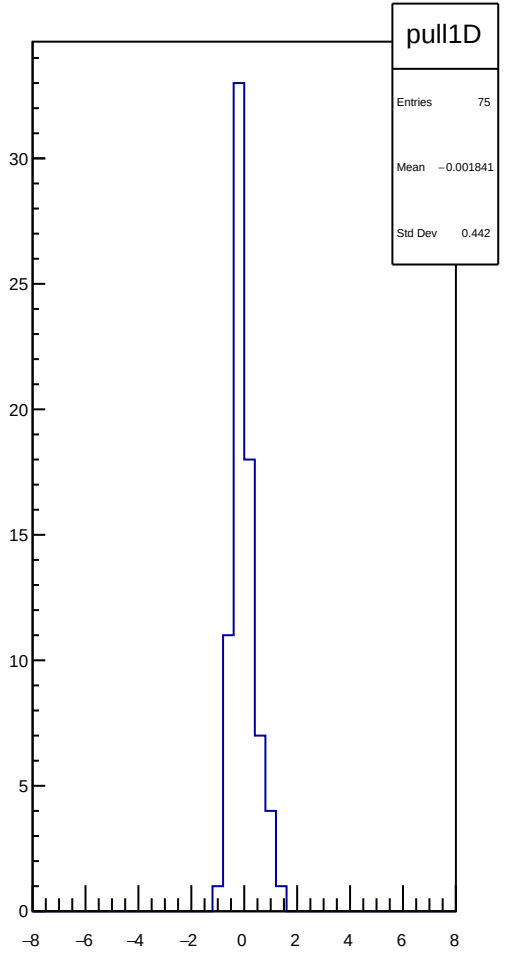

asym_bcm_an_ds_rms vs run
χ² / ndf 2815 / 74
p0 141.1 ± 0.1175
175
170
165
160
155
150
145
140
135
130

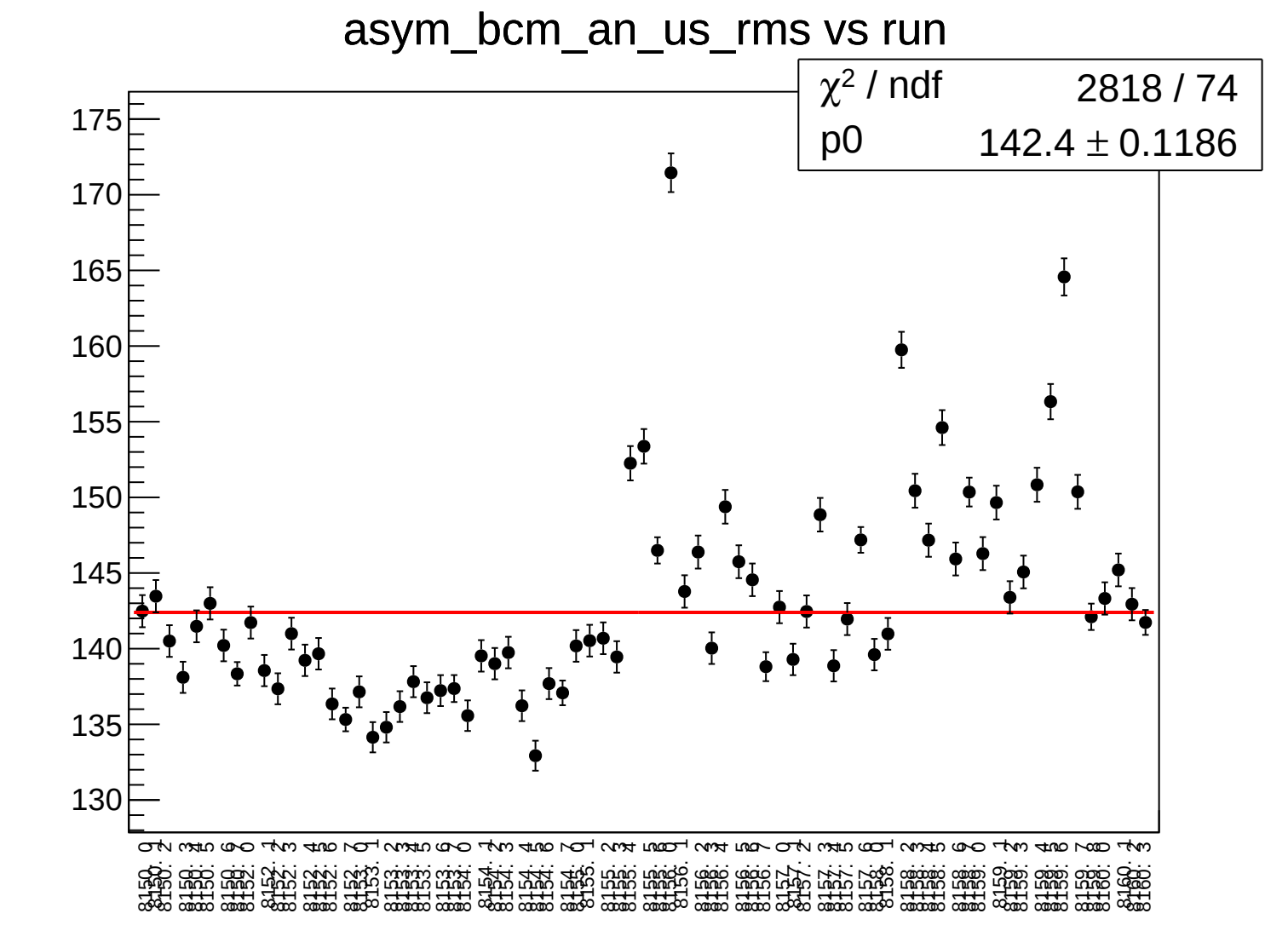

asym_bcm_an_ds3_mean vs run
χ² / ndf 15.93 / 74
p0 155.7 ± 166.9
pull
Entries 75
Mean −10.4
Std Dev 93.51

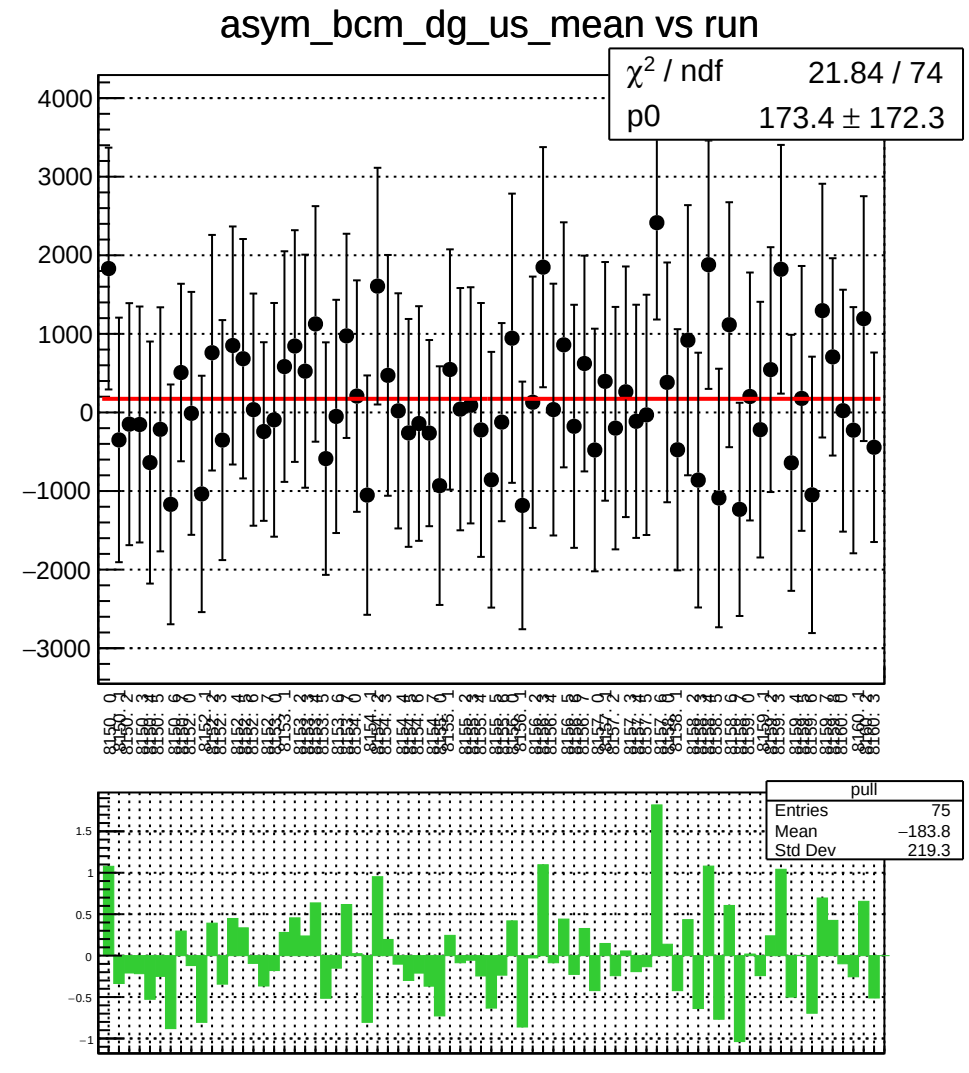

pull1D
Entries 75
Mean −0.001899
Std Dev 0.4608

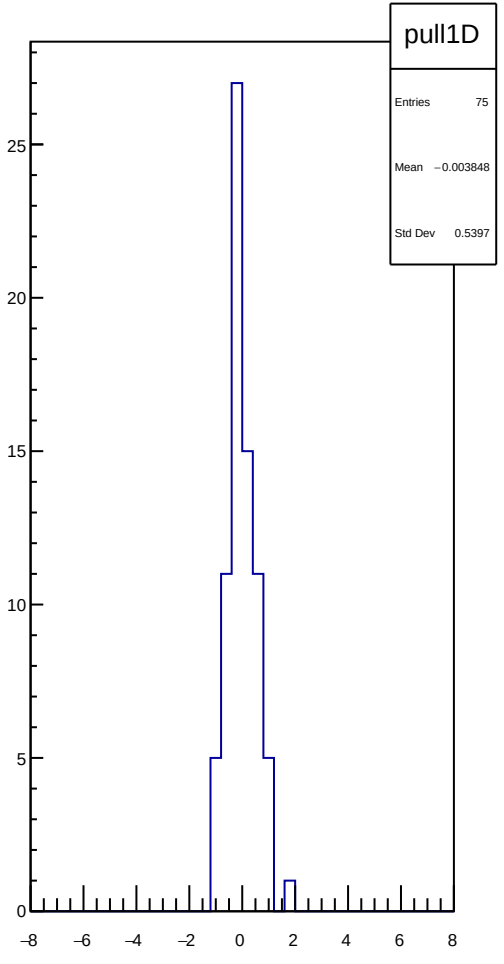

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 2827 / 74
p0 141.7 ± 0.118
175
170
165
160
155
150
145
140
135
130

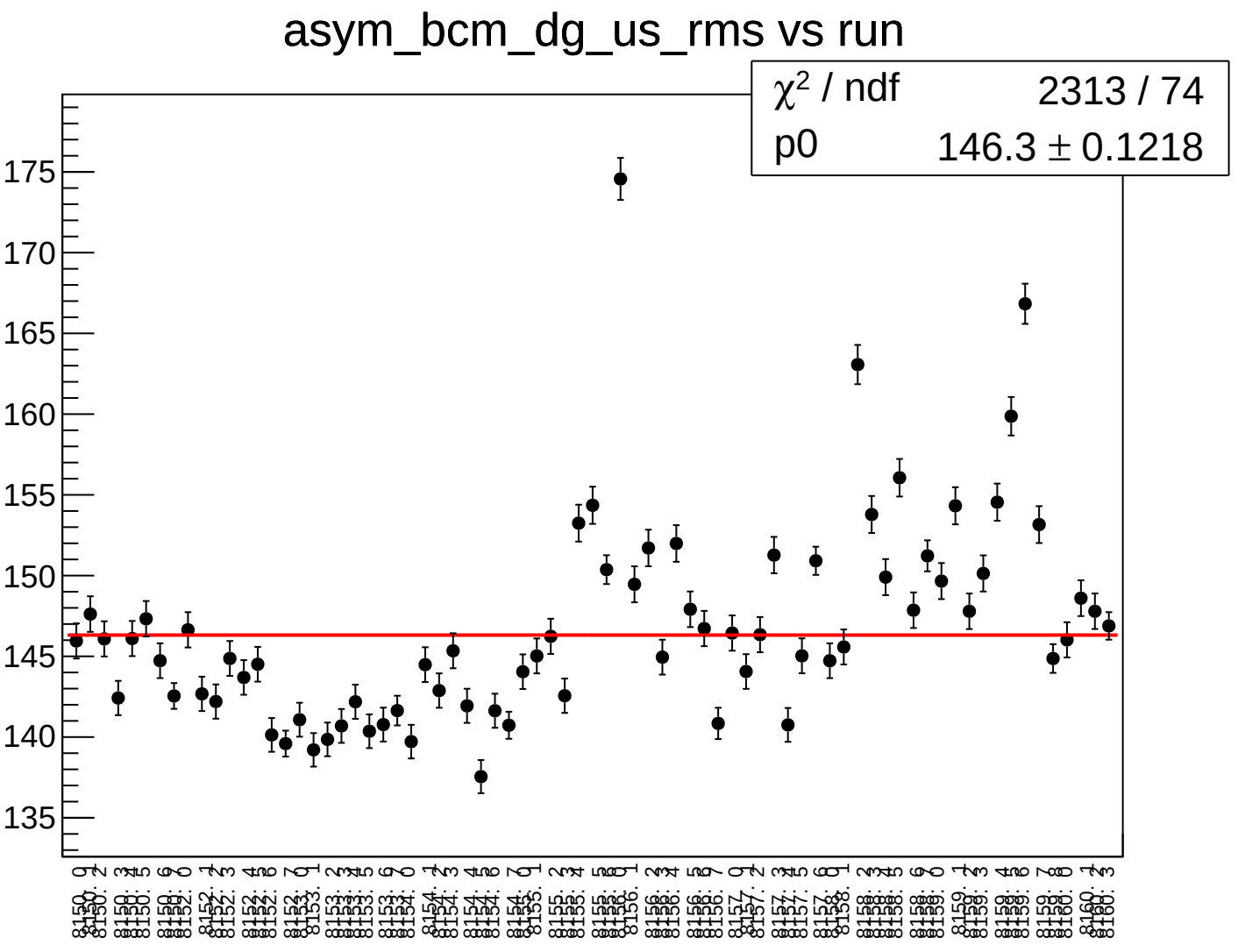

asym_bcm_an_us_mean vs run
χ^2 / ndf 14.65 / 74
p0 125.5 ± 167.7
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 75
Mean −166
Std Dev 213.5
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

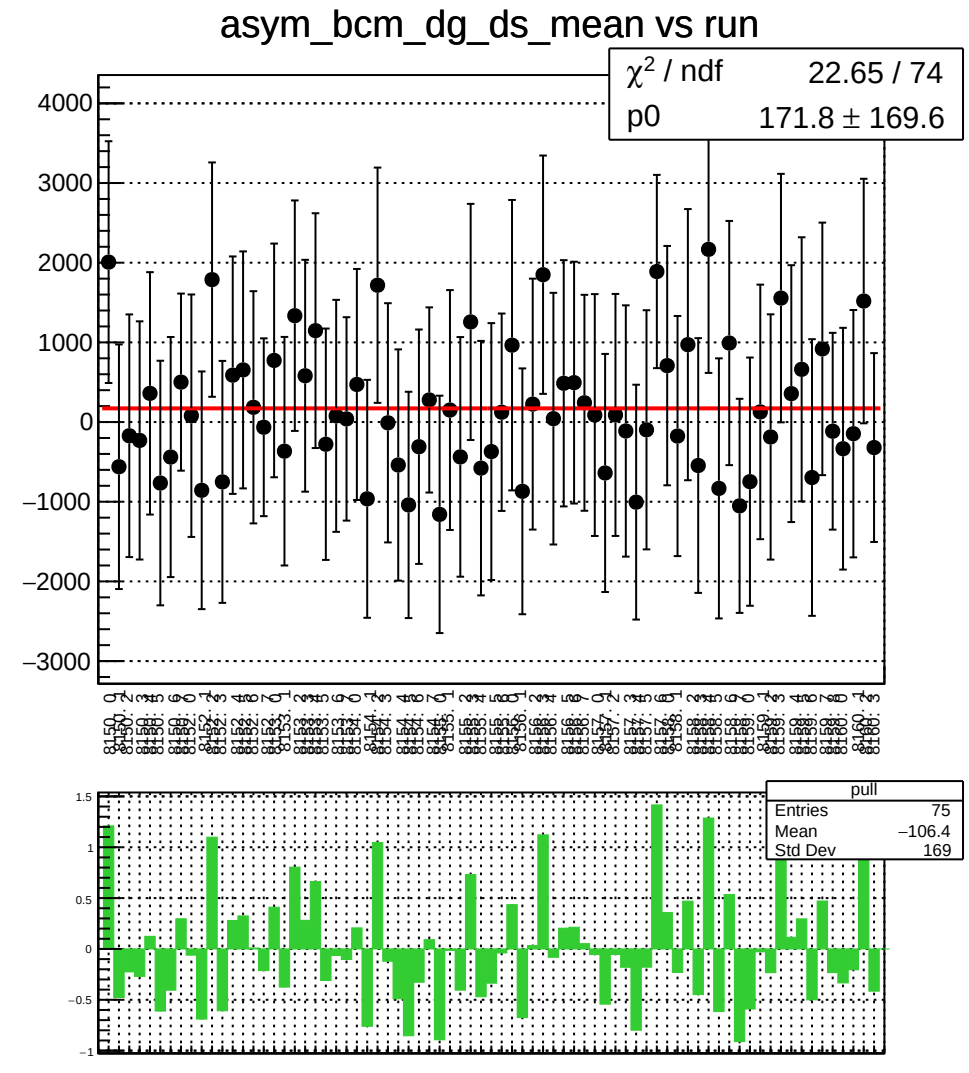

pull1D
Entries 75
Mean −0.001841
Std Dev 0.442
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

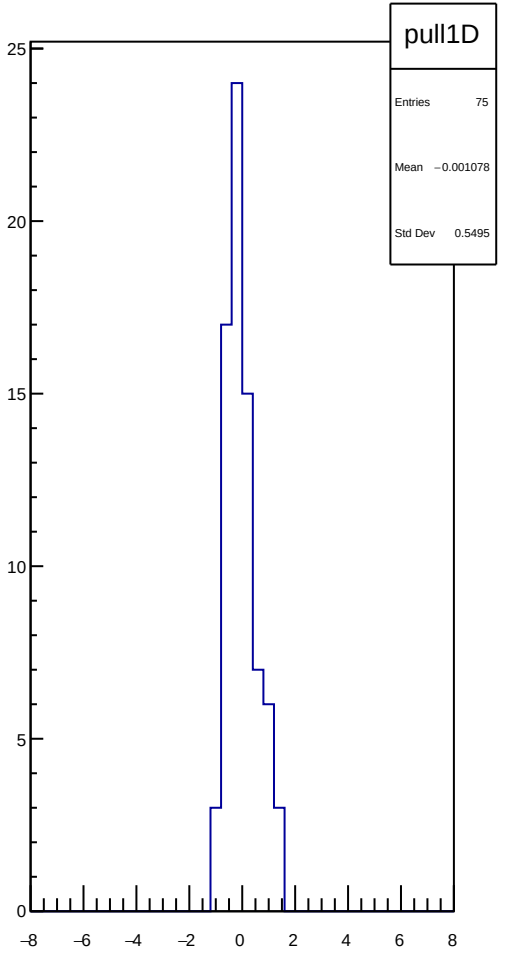

asym_bcm_an_us_rms vs run
χ² / ndf 2818 / 74
p0 142.4 ± 0.1186
175
170
165
160
155
150
145
140
135
130

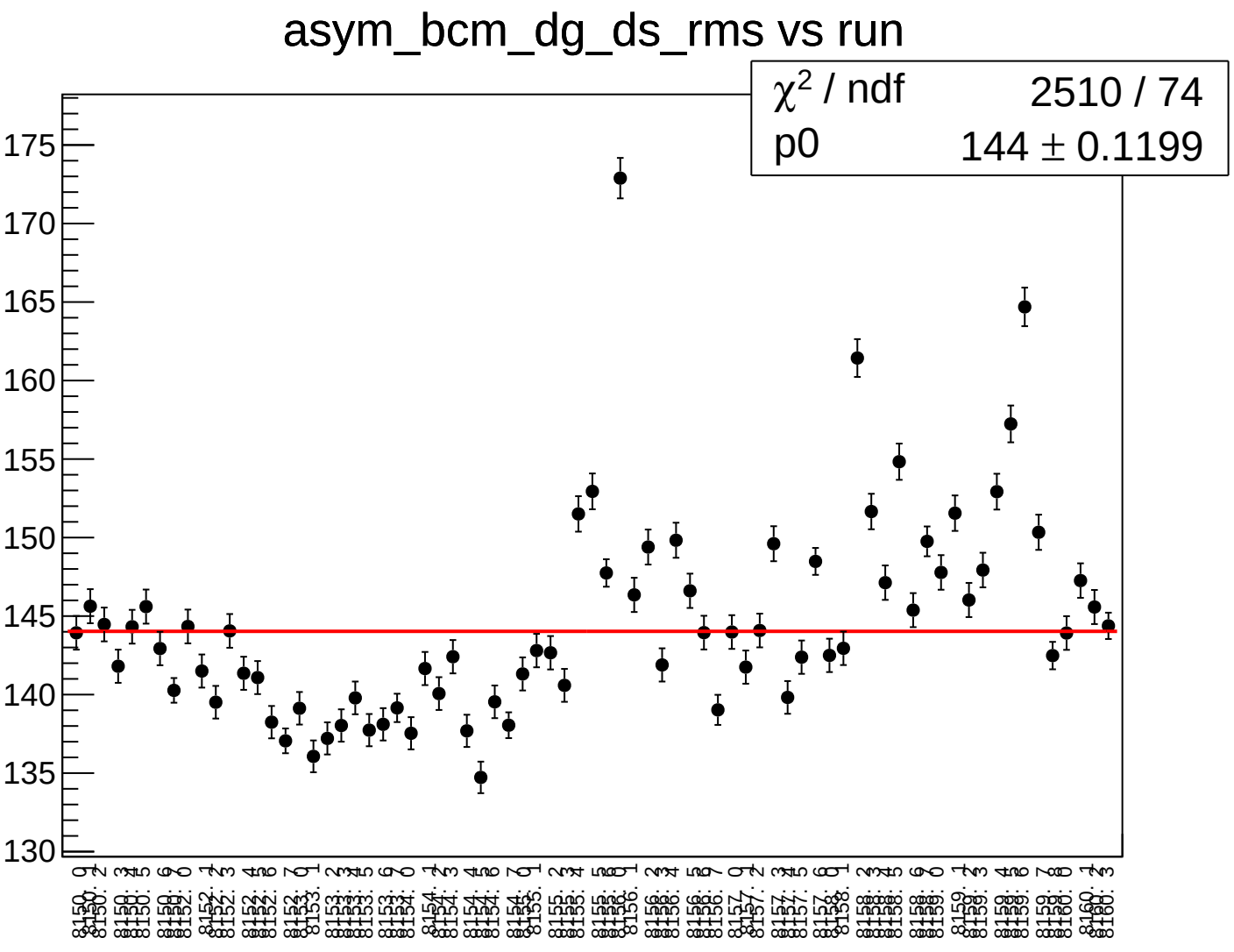

asym_bcm_dg_us_mean vs run
χ² / ndf 21.84 / 74
p0 173.4 ± 172.3
pull
Entries 75
Mean −183.8
Std Dev 219.3

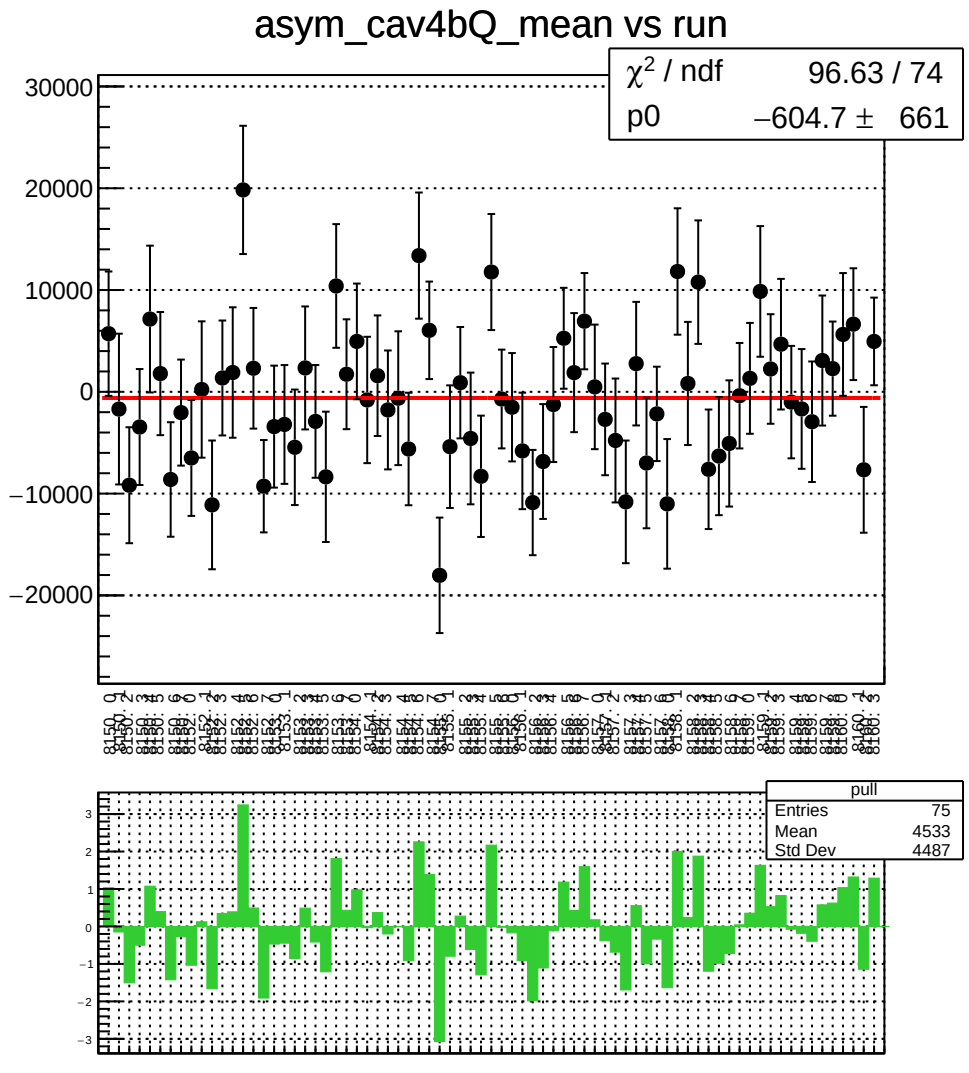

pull1D
Entries 75
Mean −0.003848
Std Dev 0.5397

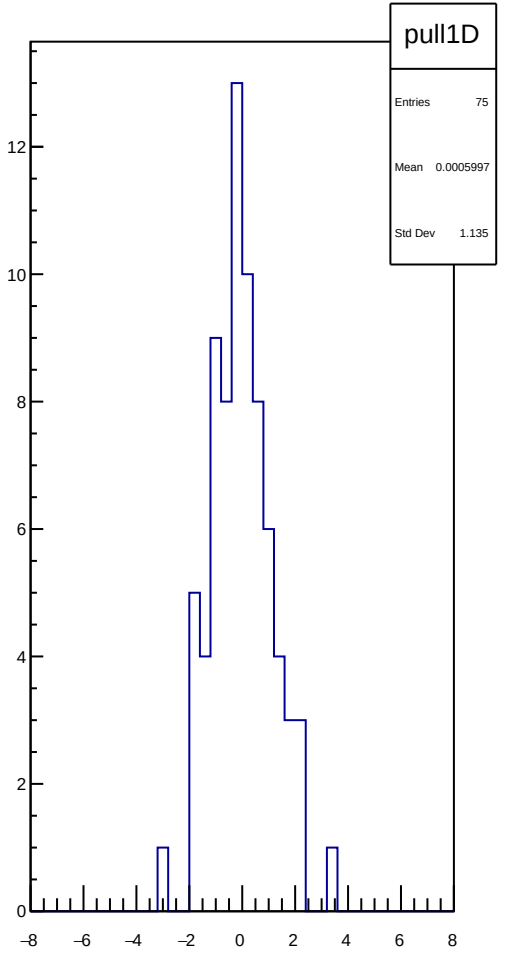

asym_bcm_dg_us_rms vs run
χ^2 / ndf 2313 / 74
p0 146.3 ± 0.1218
175
170
165
160
155
150
145
140
135

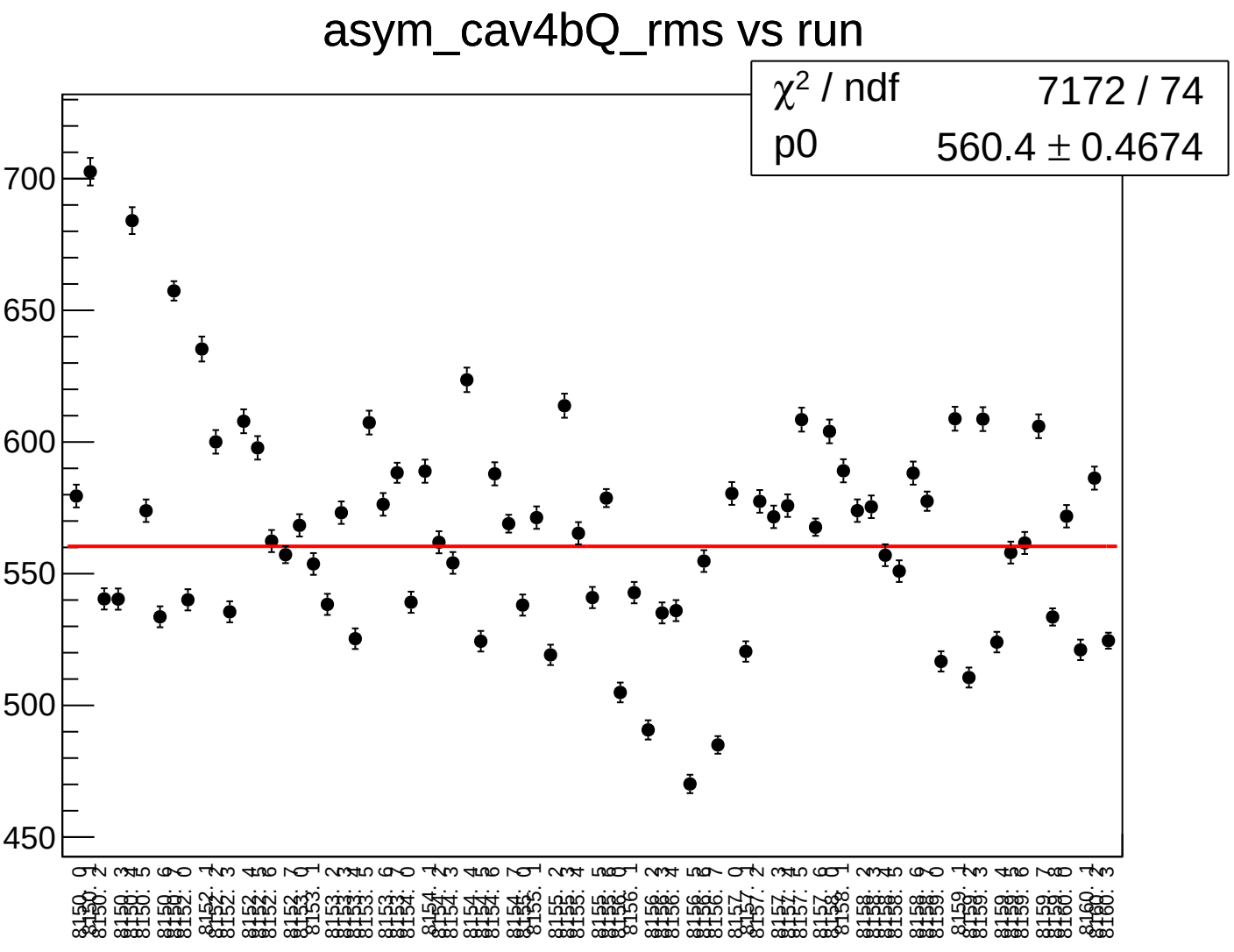

asym_bcm_dg_ds_mean vs run
χ² / ndf 22.65 / 74
p0 171.8 ± 169.6
pull
Entries 75
Mean −106.4
Std Dev 169

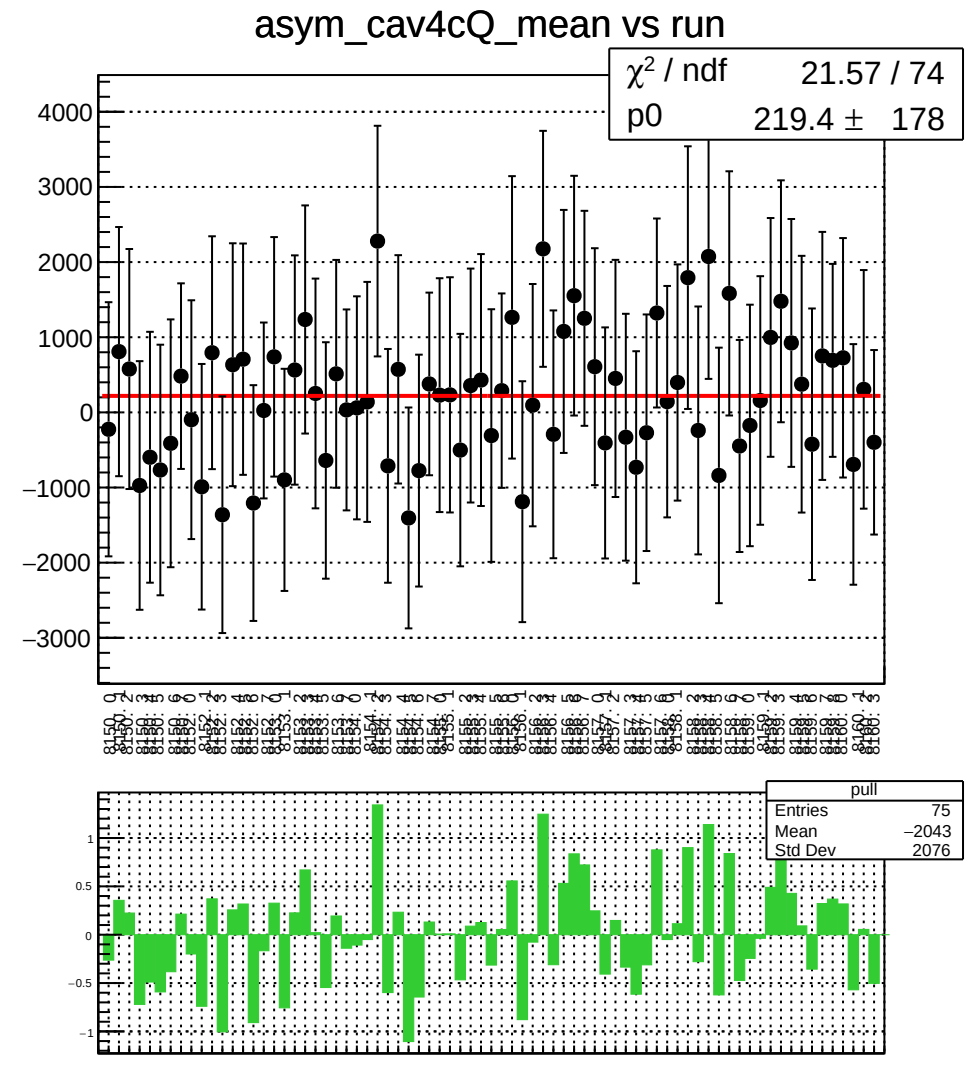

pull1D
Entries 75
Mean −0.001078
Std Dev 0.5495

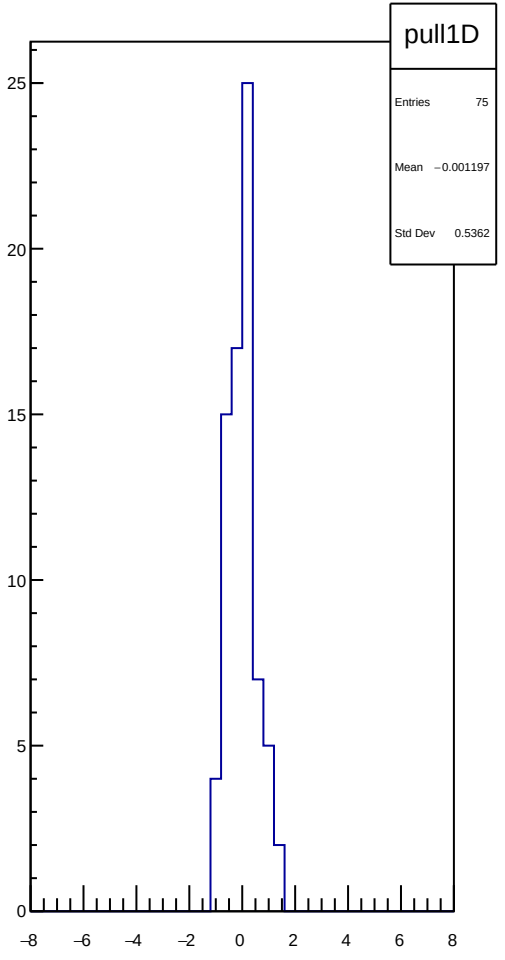

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 2510 / 74
p0 144 ± 0.1199
175
170
165
160
155
150
145
140
135
130

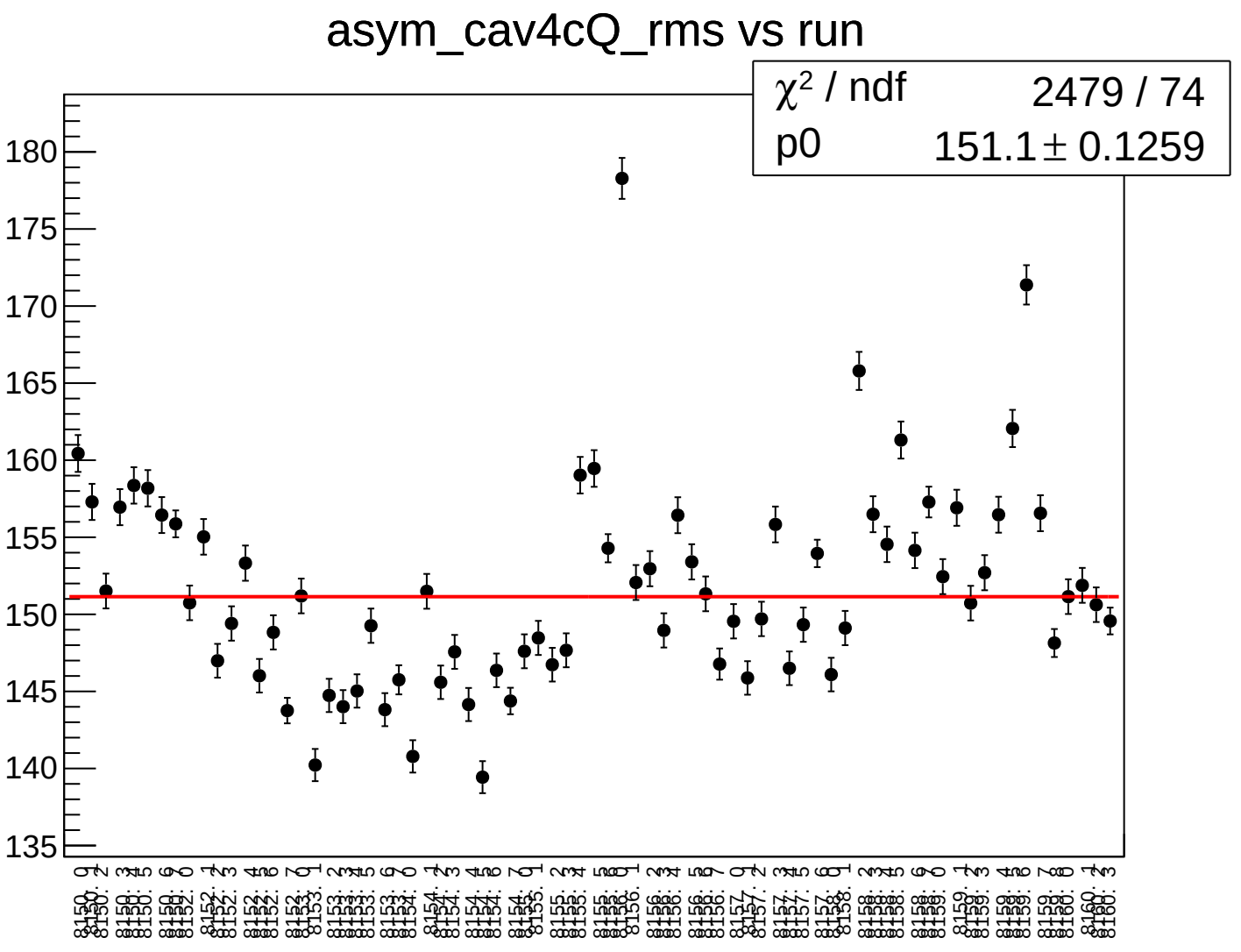

asym_cav4bQ_mean vs run
χ² / ndf 96.63 / 74
p0 −604.7 ± 661
pull
Entries 75
Mean 4533
Std Dev 4487

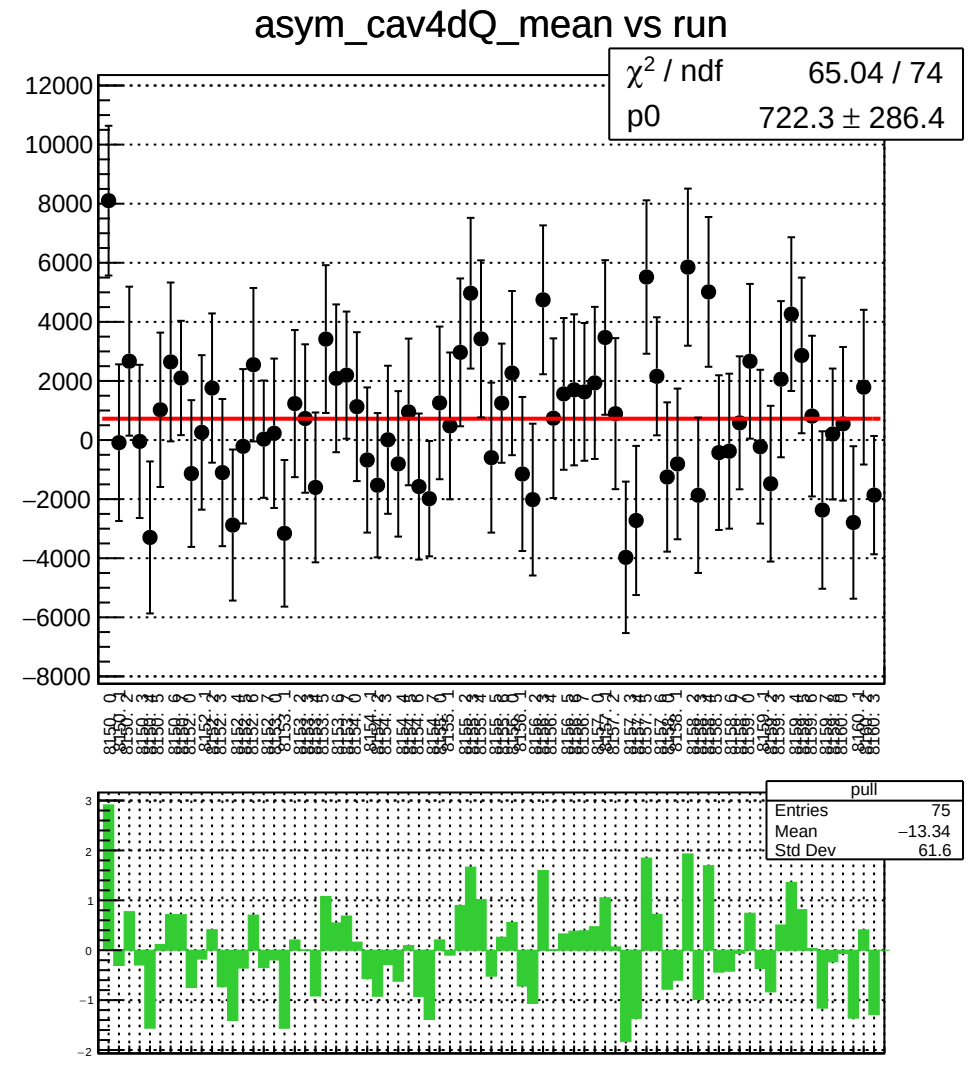

pull1D
Entries 75
Mean 0.0005997
Std Dev 1.135

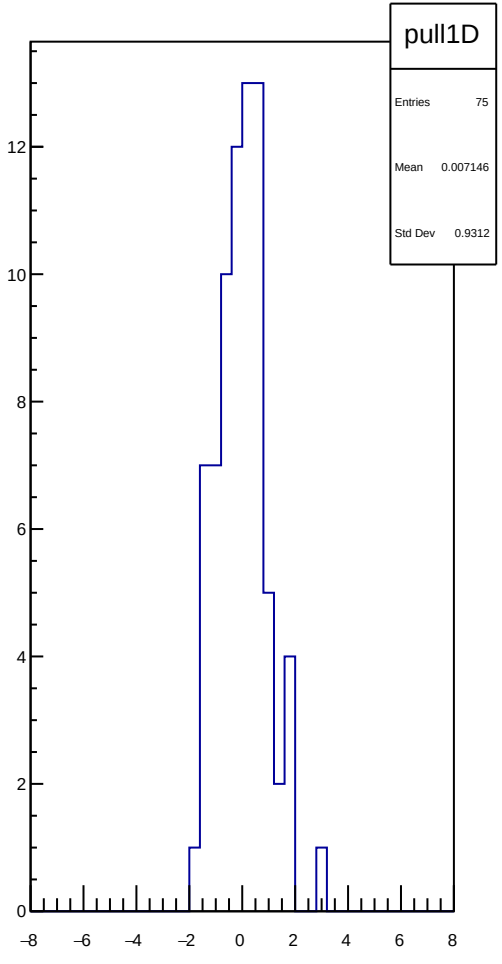

asym_cav4bQ_rms vs run
χ² / ndf 7172 / 74
p0 560.4 ± 0.4674
700
650
600
550
500
450

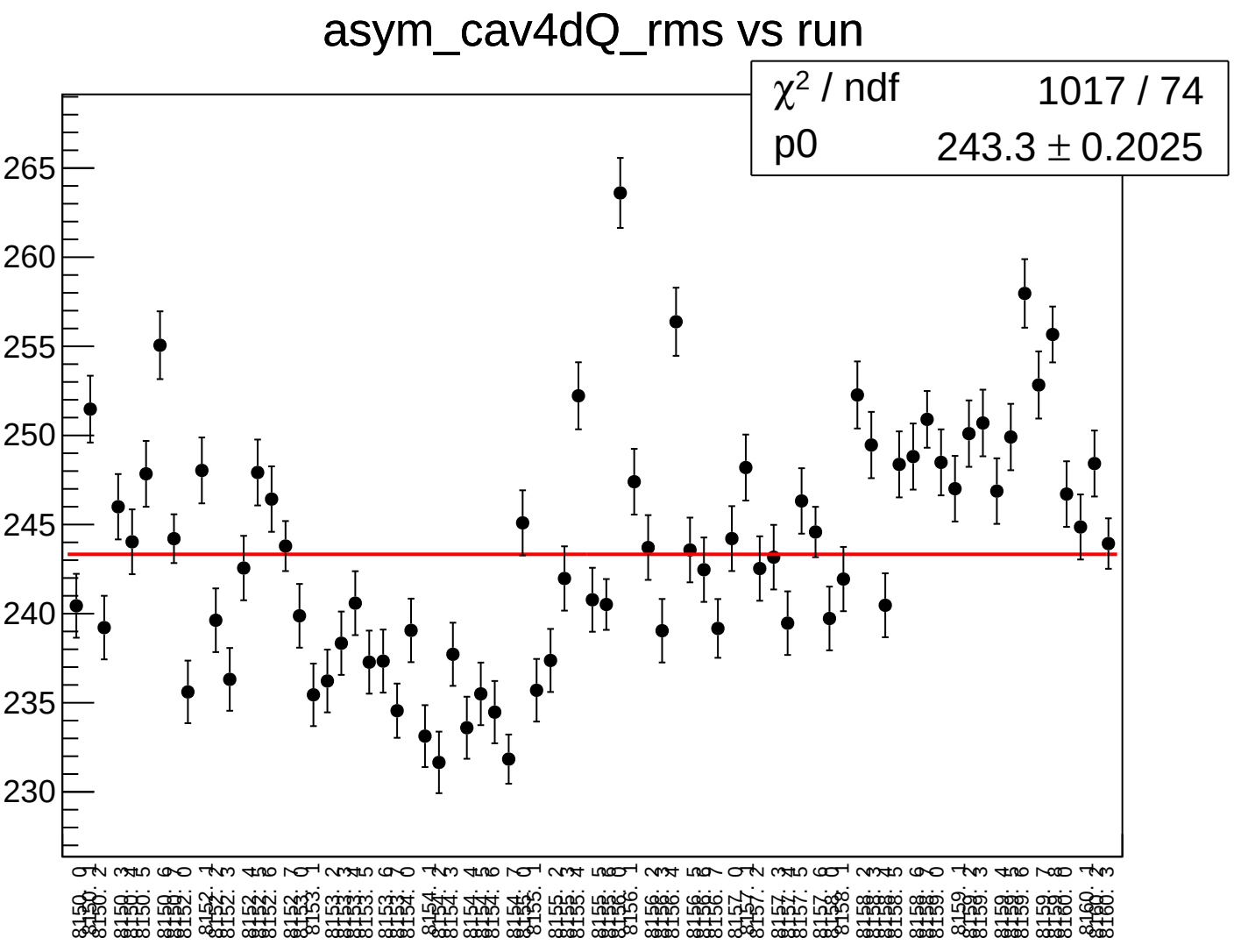

asym_cav4cQ_mean vs run
χ² / ndf 21.57 / 74
p0 219.4 ± 178
pull
Entries 75
Mean −2043
Std Dev 2076

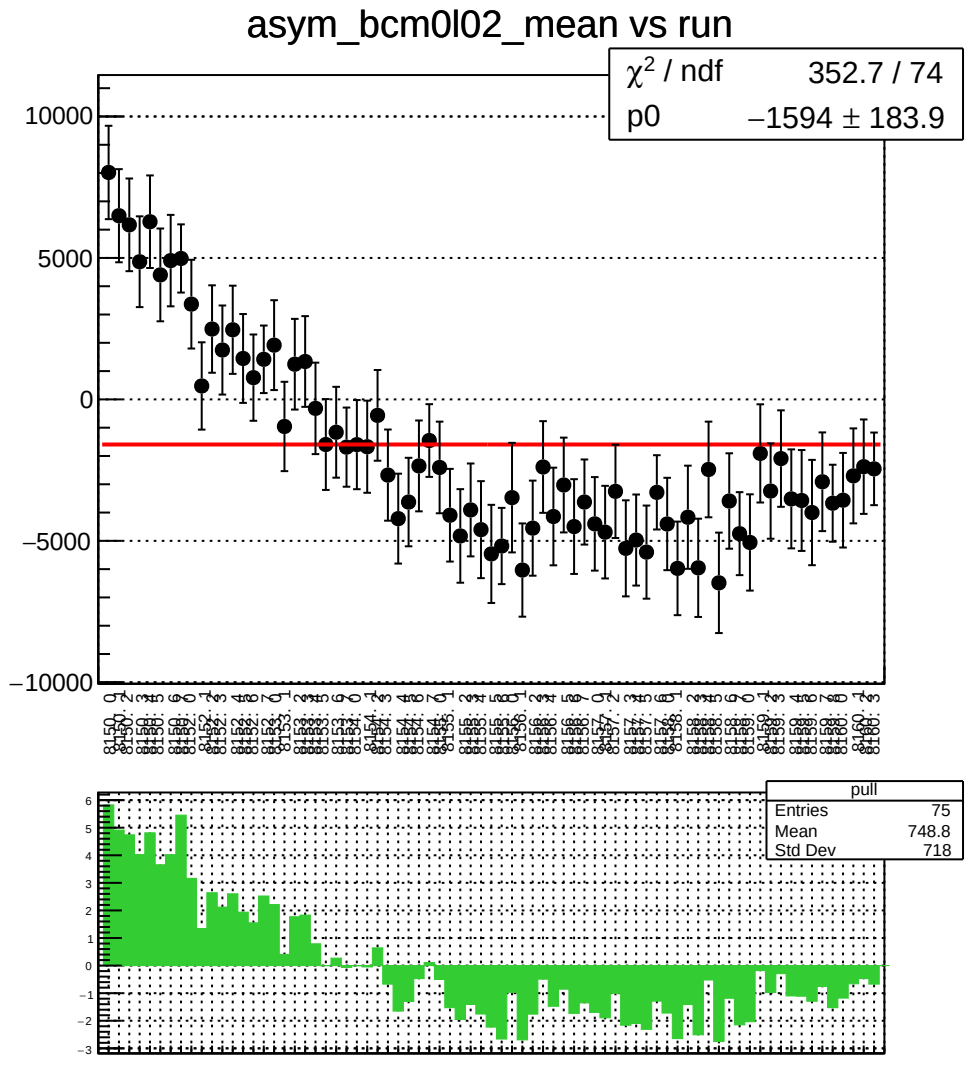

pull1D
Entries 75
Mean −0.001197
Std Dev 0.5362

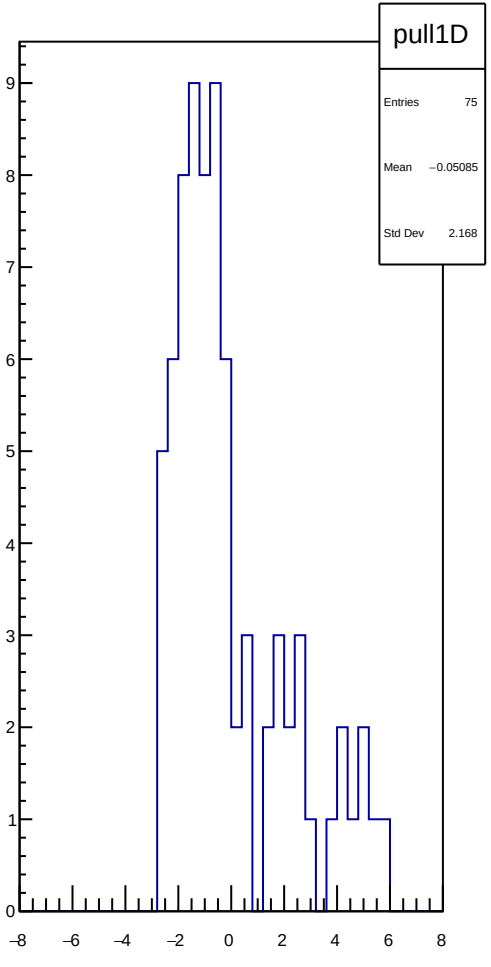

asym_cav4cQ_rms vs run
χ² / ndf 2479 / 74
p0 151.1 ± 0.1259
180
175
170
165
160
155
150
145
140
135

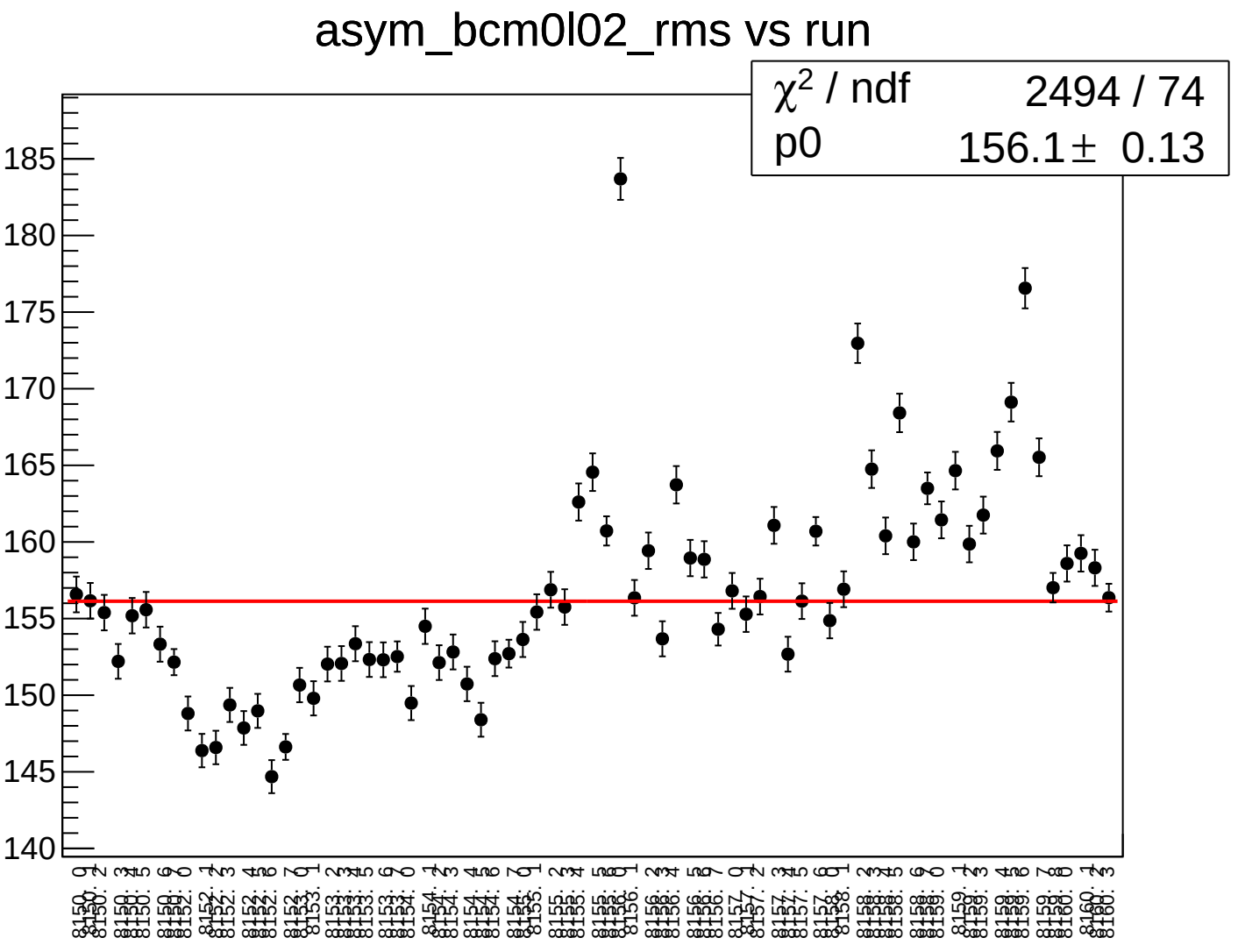

asym_cav4dQ_mean vs run
χ² / ndf 65.04 / 74
p0 722.3 ± 286.4
pull
Entries 75
Mean −13.34
Std Dev 61.6

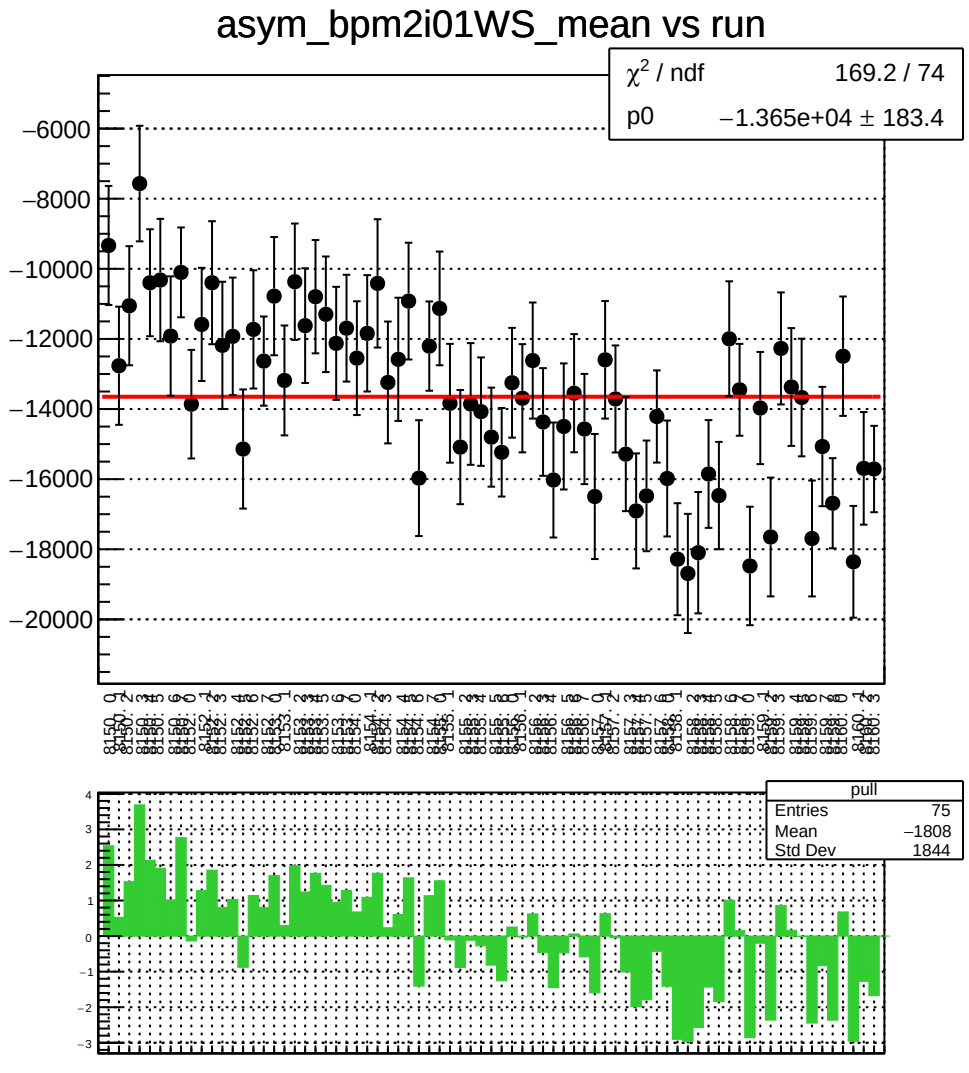

pull1D
Entries 75
Mean 0.007146
Std Dev 0.9312

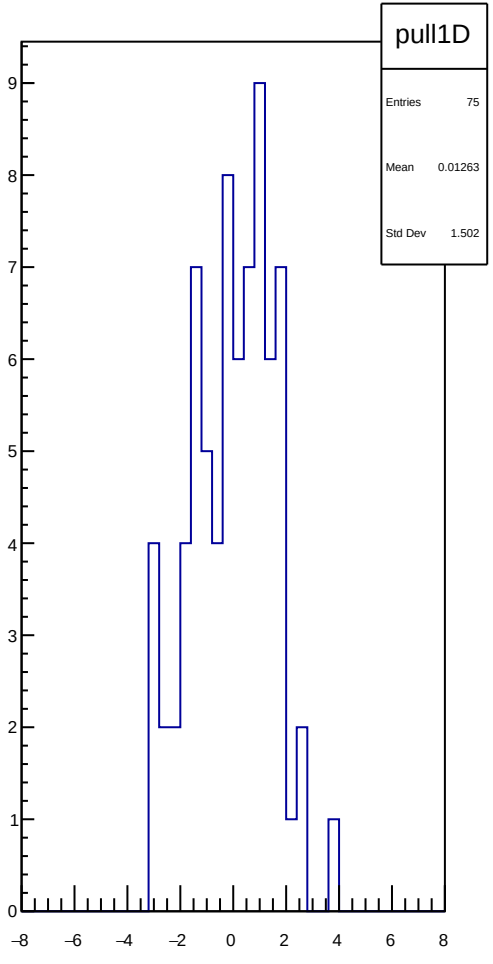

asym_cav4dQ_rms vs run
χ² / ndf 1017 / 74
p0 243.3 ± 0.2025
265
260
255
250
245
240
235
230

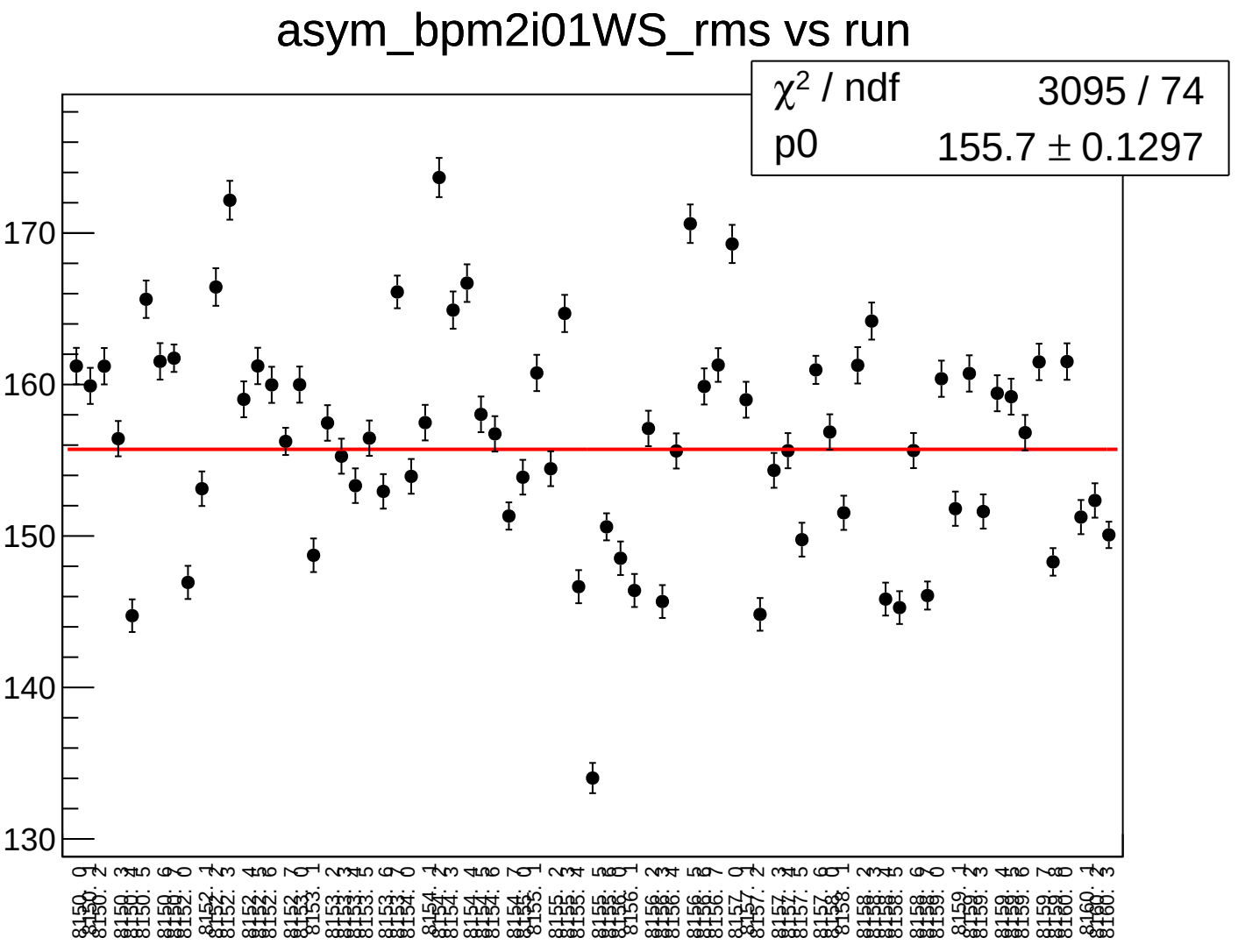

asym_bcm0l02_mean vs run
χ² / ndf 352.7 / 74
p0 −1594 ± 183.9
10000
5000
0
−5000
−10000
pull
Entries 75
Mean 748.8
Std Dev 718
6
5
4
3
2
1
0
−1
−2
−3

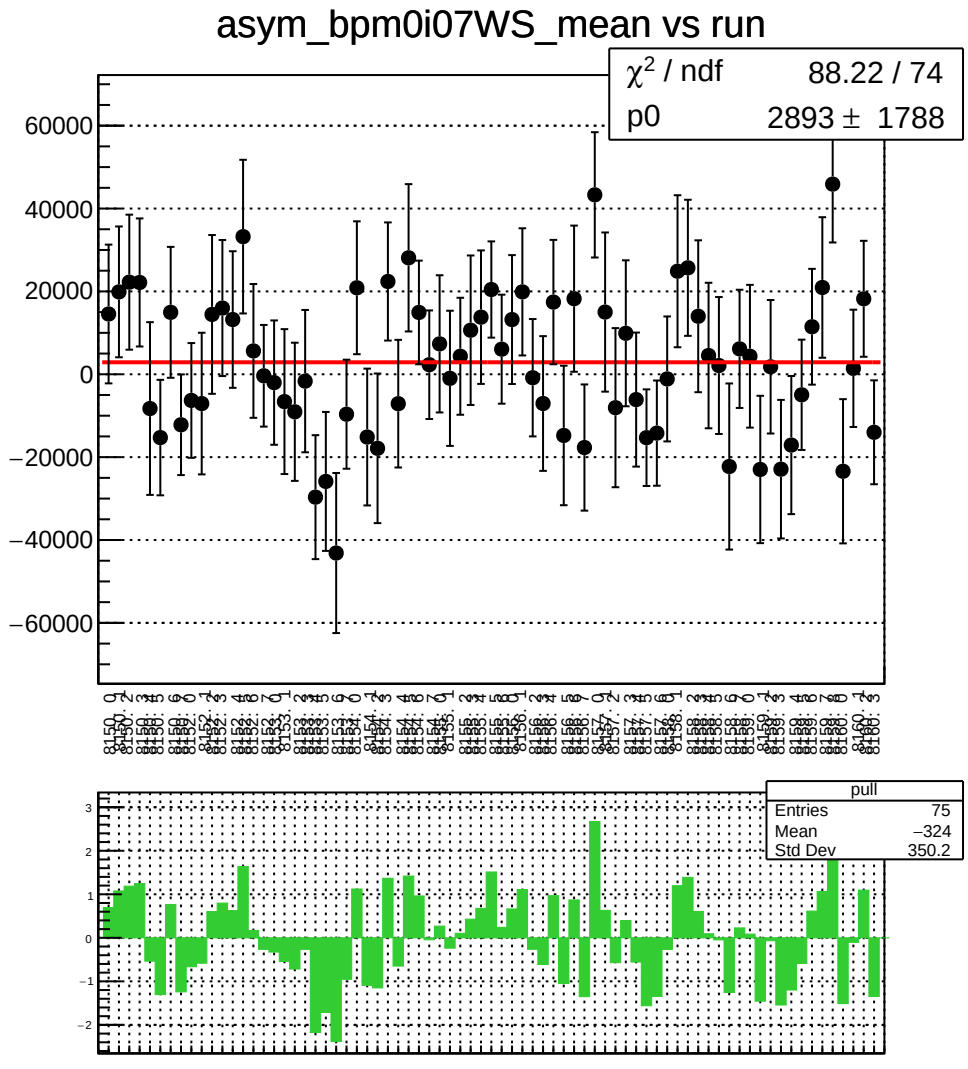

pull1D
Entries 75
Mean −0.05085
Std Dev 2.168
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

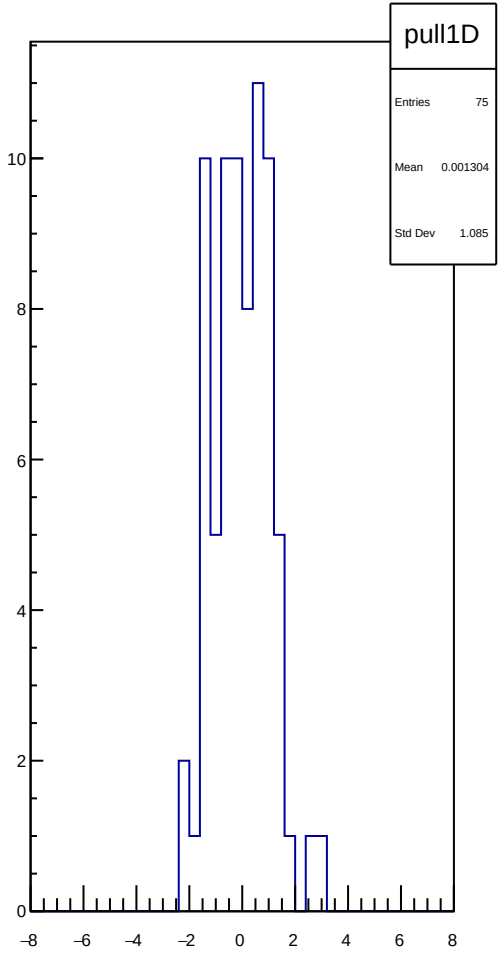

asym_bcm0l02_rms vs run
χ² / ndf 2494 / 74
p0 156.1 ± 0.13
185
180
175
170
165
160
155
150
145
140

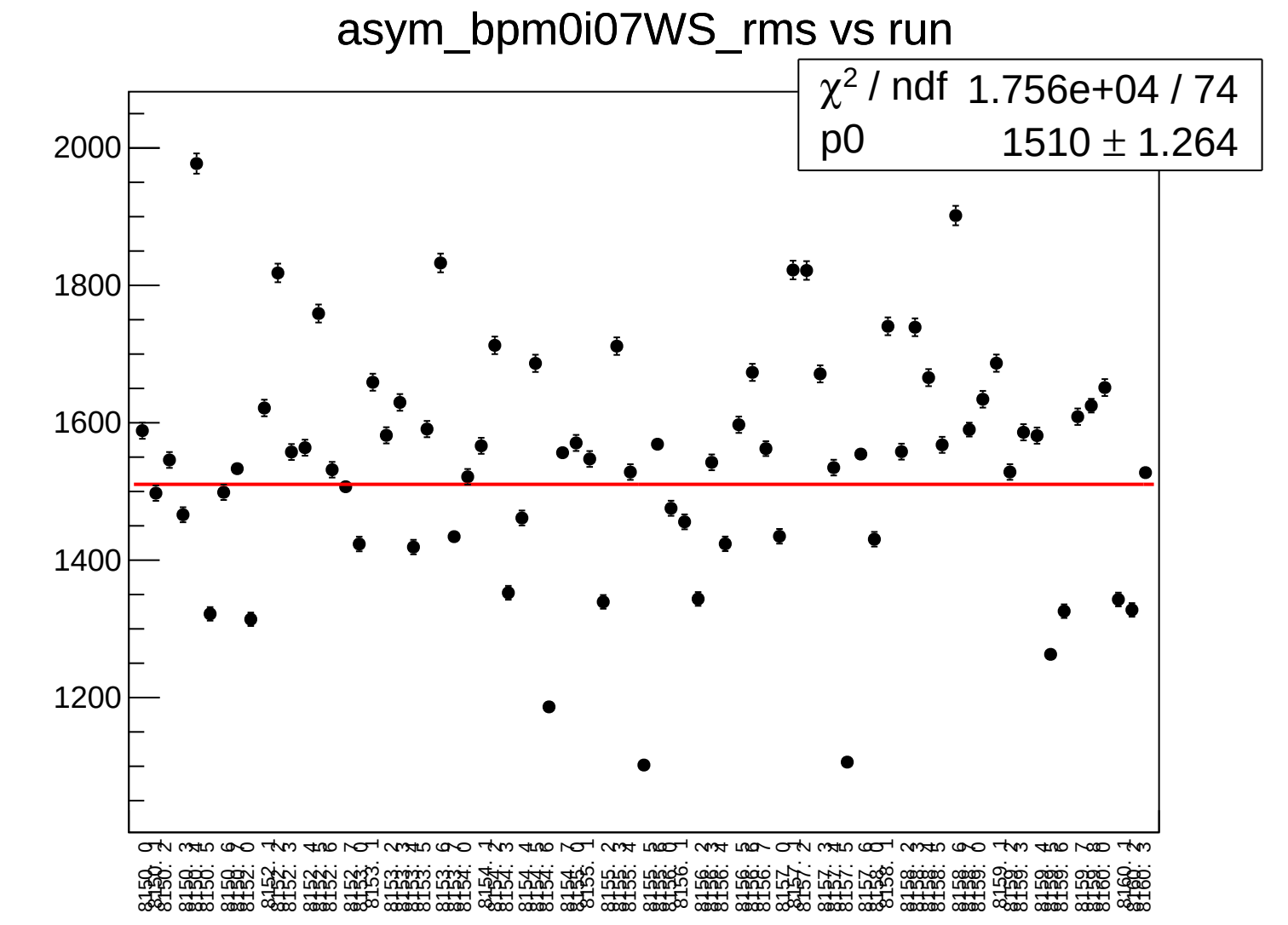

asym_bpm2i01WS_mean vs run
χ² / ndf 169.2 / 74
p0 −1.365e+04 ± 183.4
pull
Entries 75
Mean −1808
Std Dev 1844

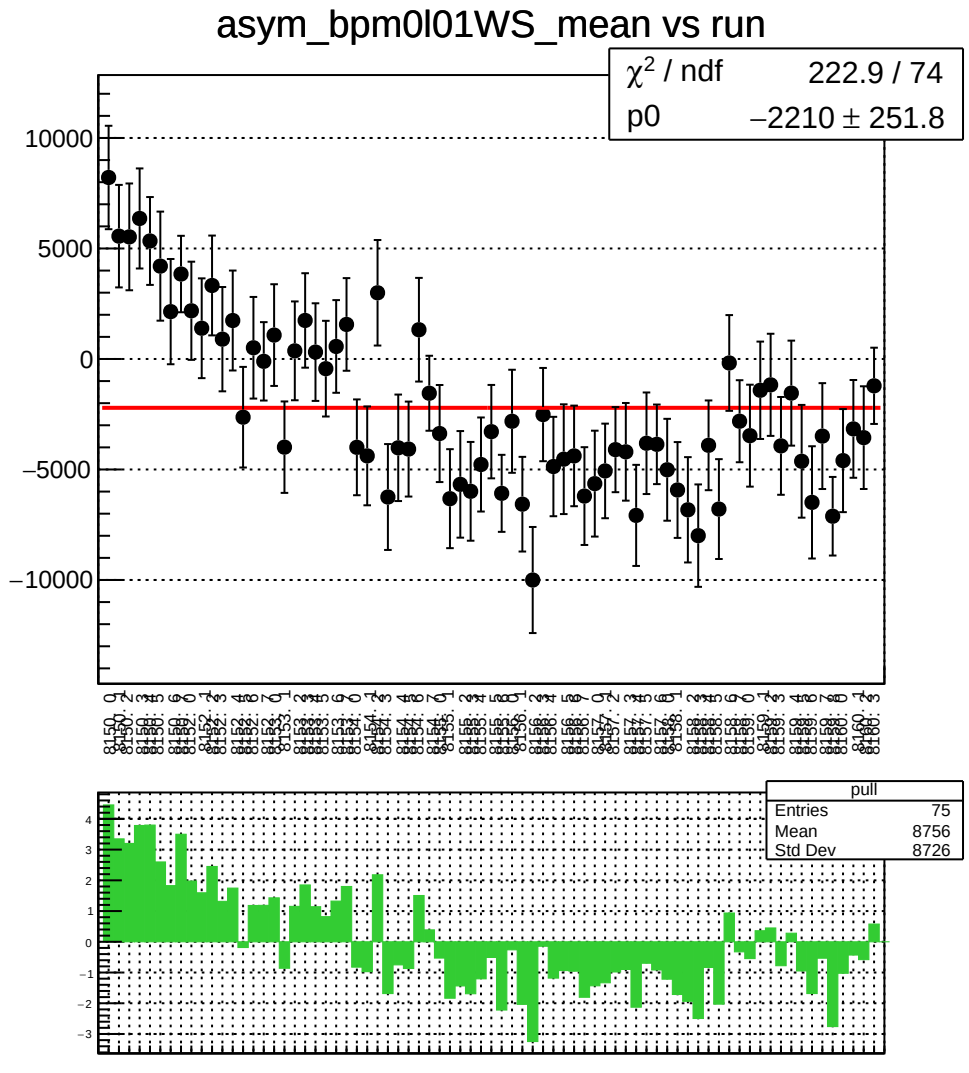

pull1D
Entries 75
Mean 0.01263
Std Dev 1.502

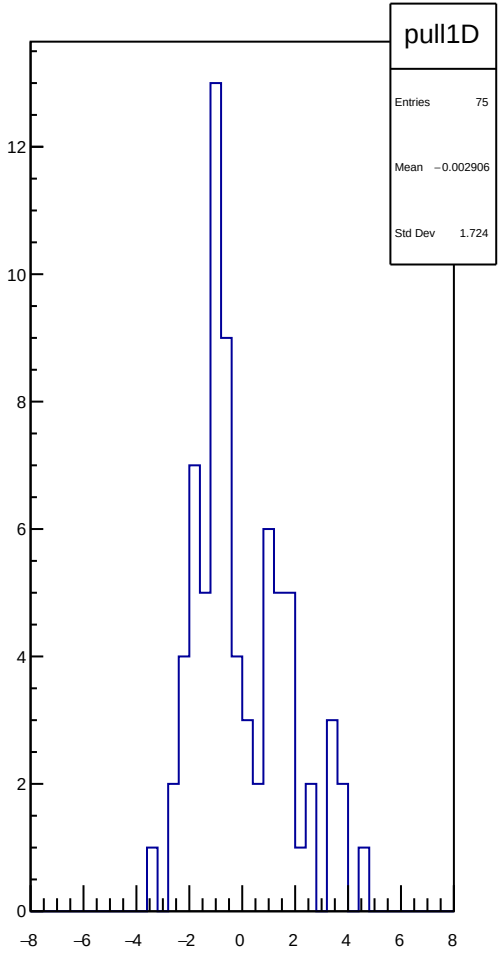

asym_bpm2i01WS_rms vs run
χ² / ndf 3095 / 74
p0 155.7 ± 0.1297
170
160
150
140
130

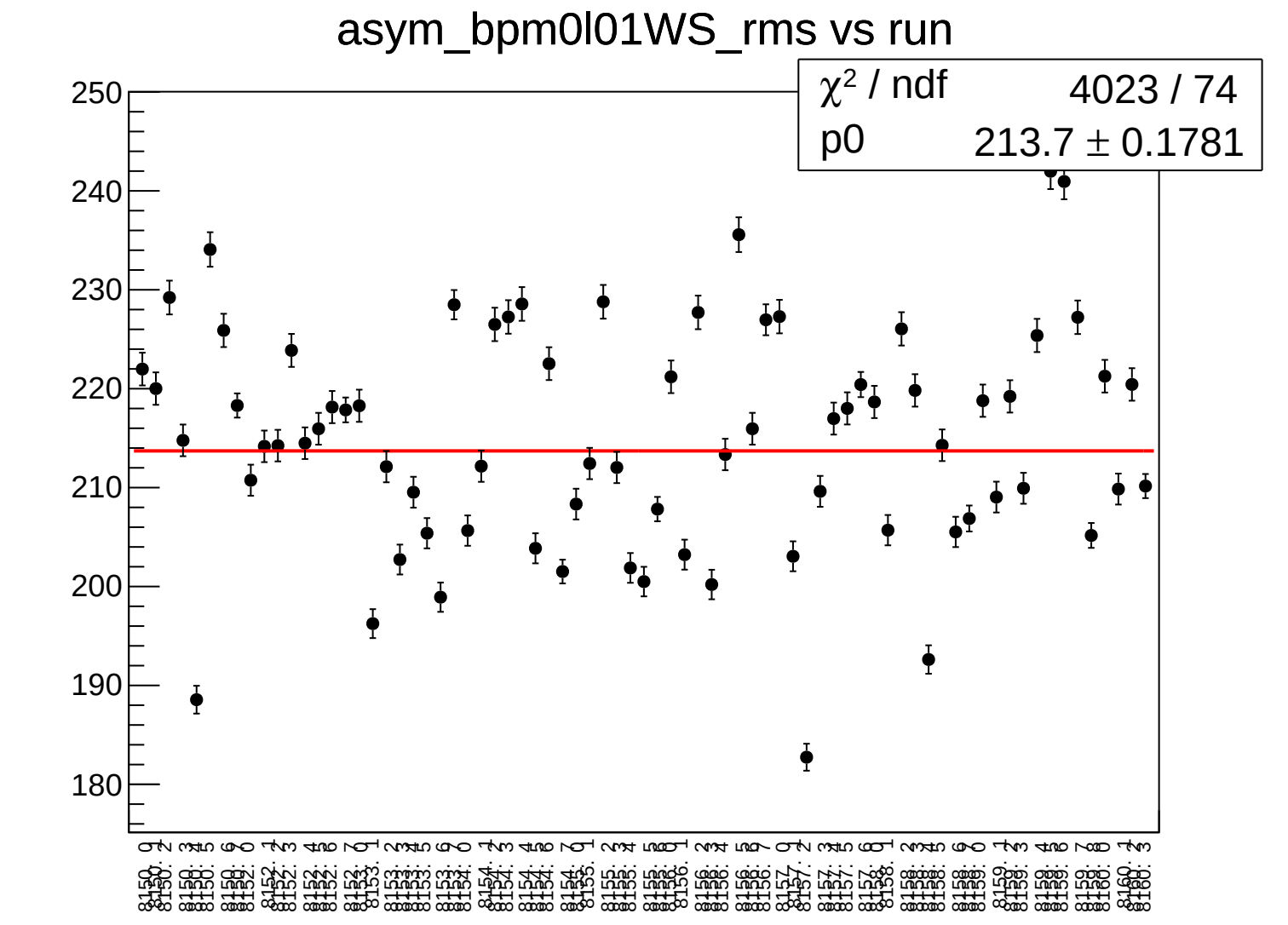

asym_bpm0i07WS_mean vs run
χ² / ndf 88.22 / 74
p0 2893 ± 1788
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 75
Mean −324
Std Dev 350.2
3
2
1
0
−1
−2

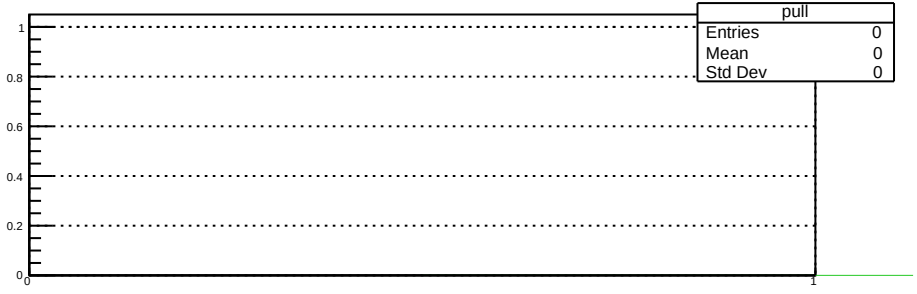

pull1D
Entries 75
Mean 0.001304
Std Dev 1.085
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

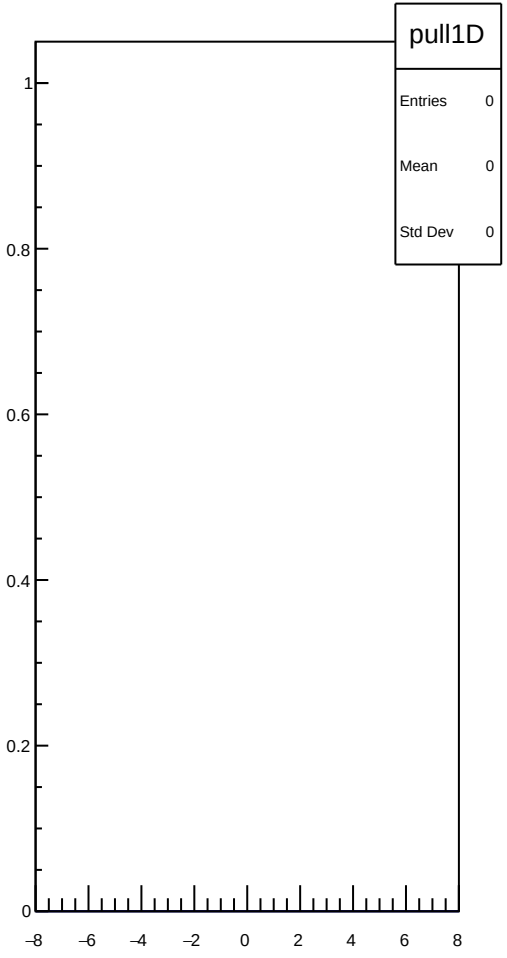

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.756e+04 / 74
p0 1510 ± 1.264
2000
1800
1600
1400
1200

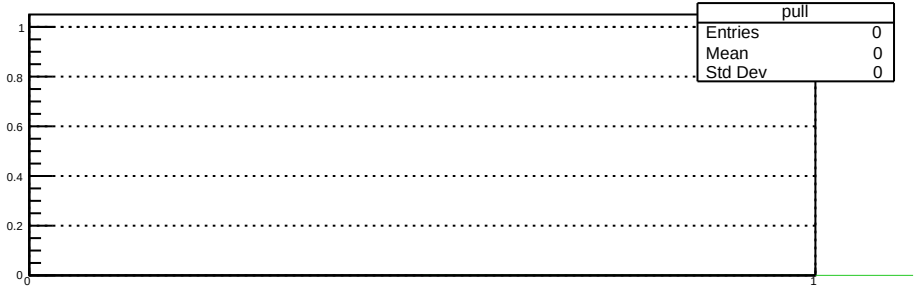

asym_bpm0l01WS_mean vs run
χ² / ndf 222.9 / 74
p0 −2210 ± 251.8
10000
5000
0
−5000
−10000
pull
Entries 75
Mean 8756
Std Dev 8726

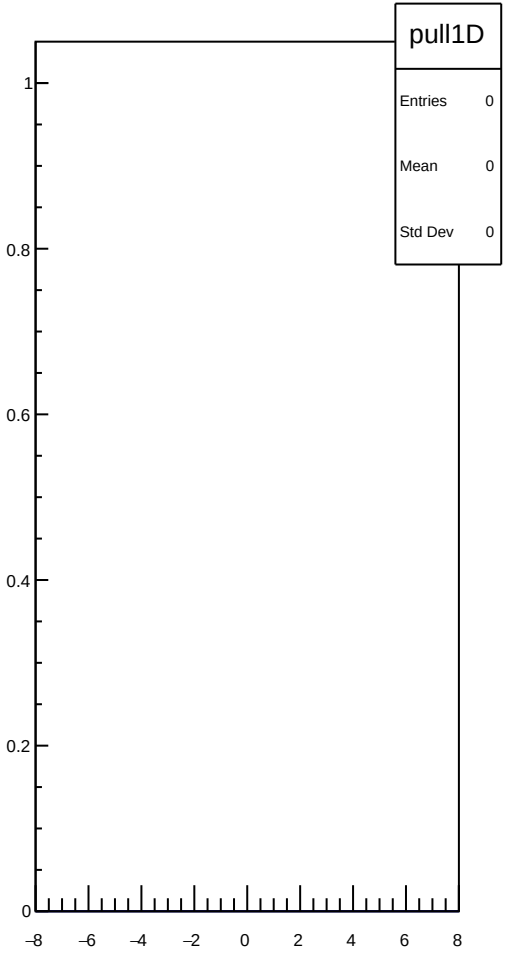

pull1D
Entries 75
Mean −0.002906
Std Dev 1.724
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

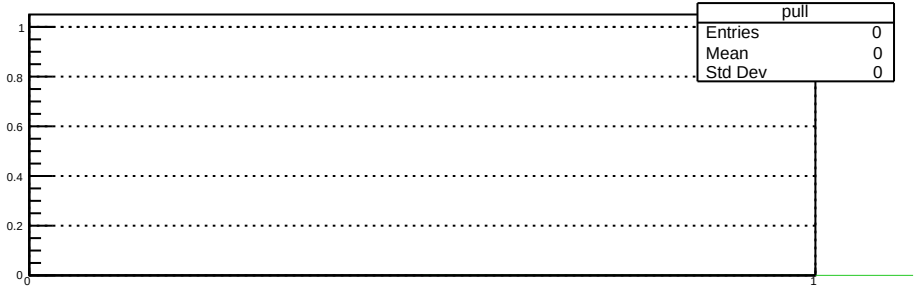

asym_bpm0l01WS_rms vs run
χ² / ndf 4023 / 74
p0 213.7 ± 0.1781
250
240
230
220
210
200
190
180

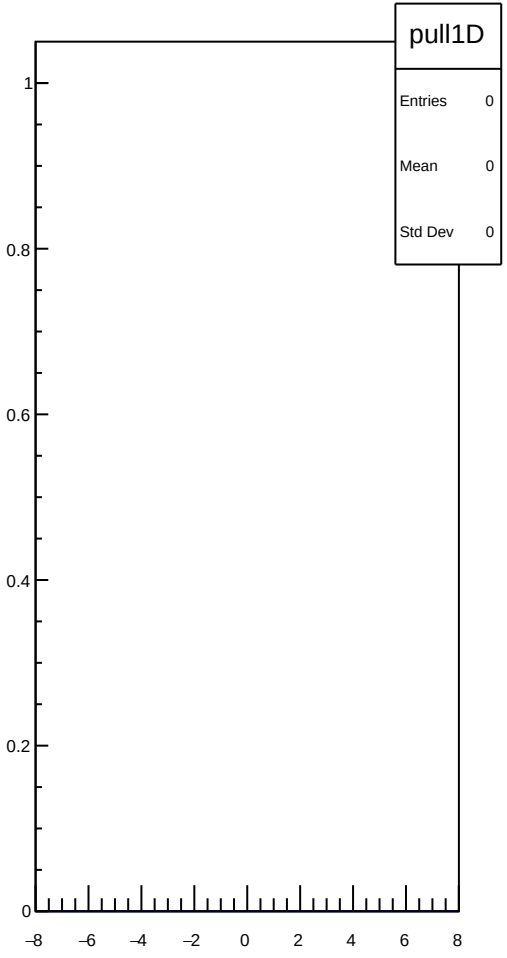

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

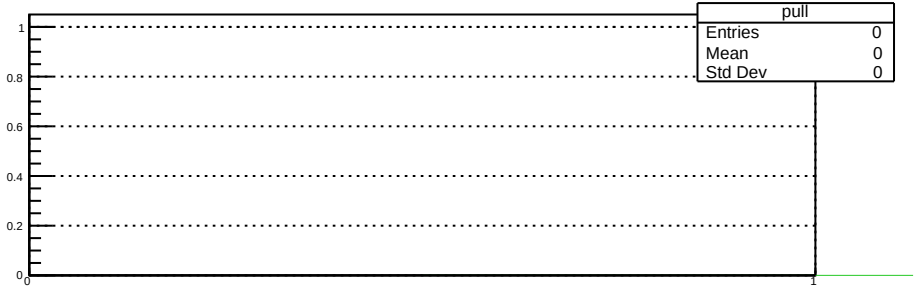

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

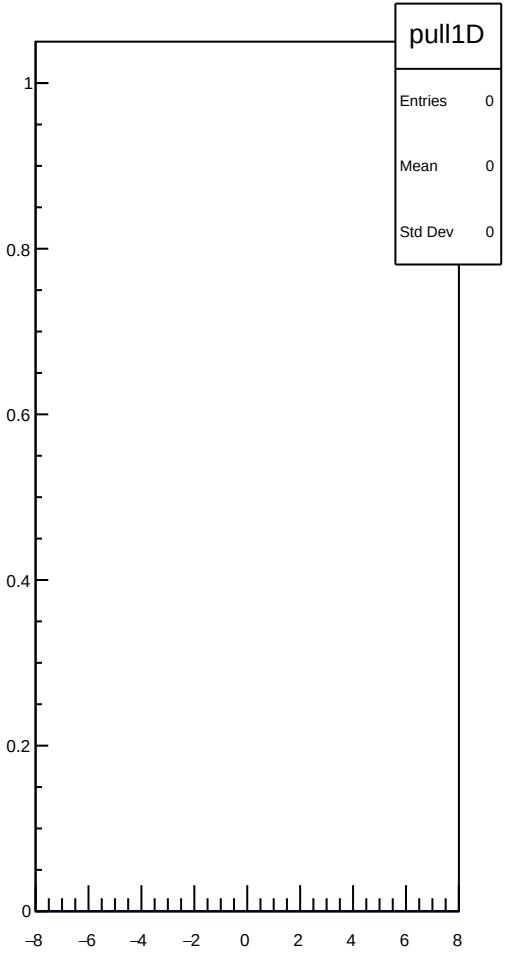

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

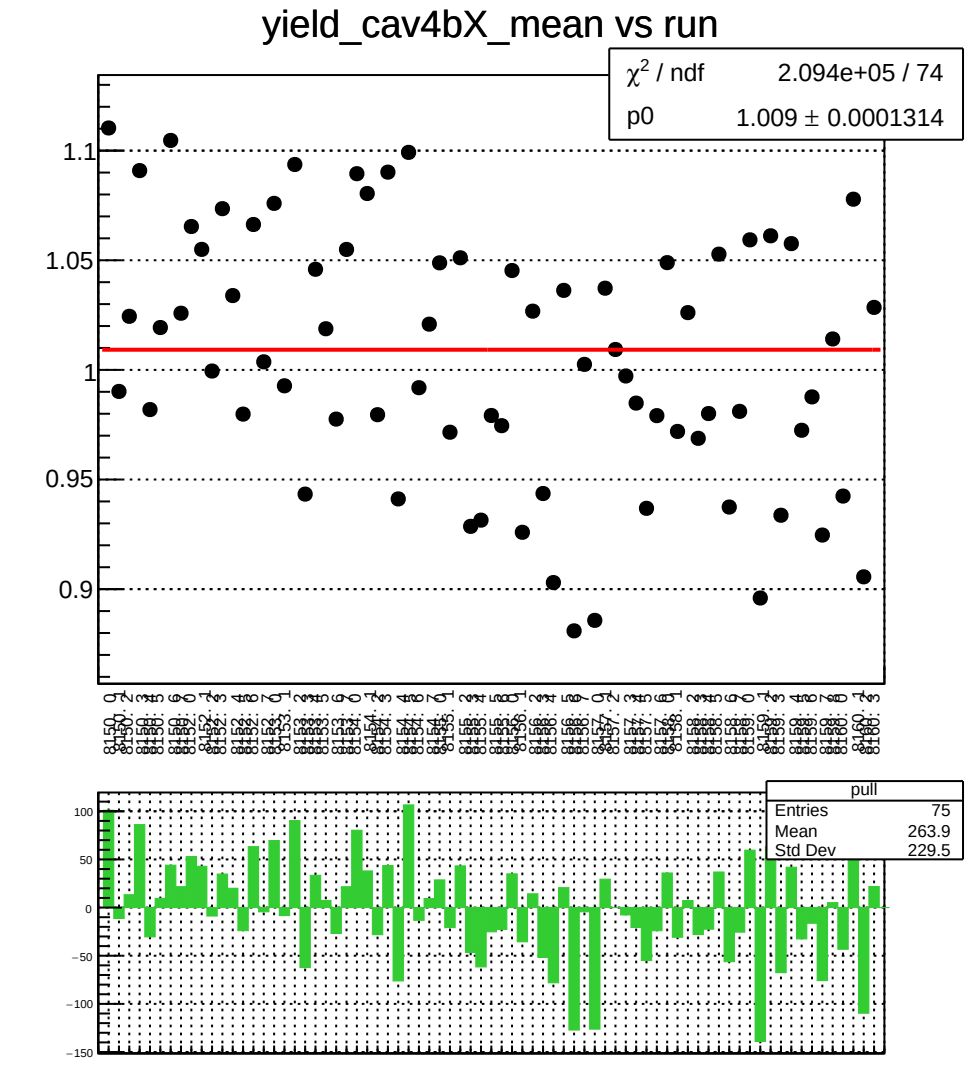

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

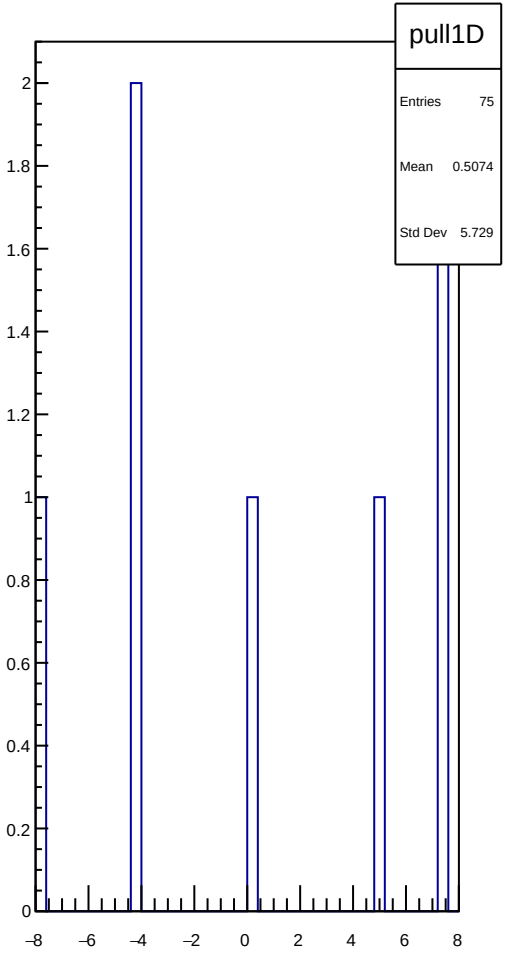

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

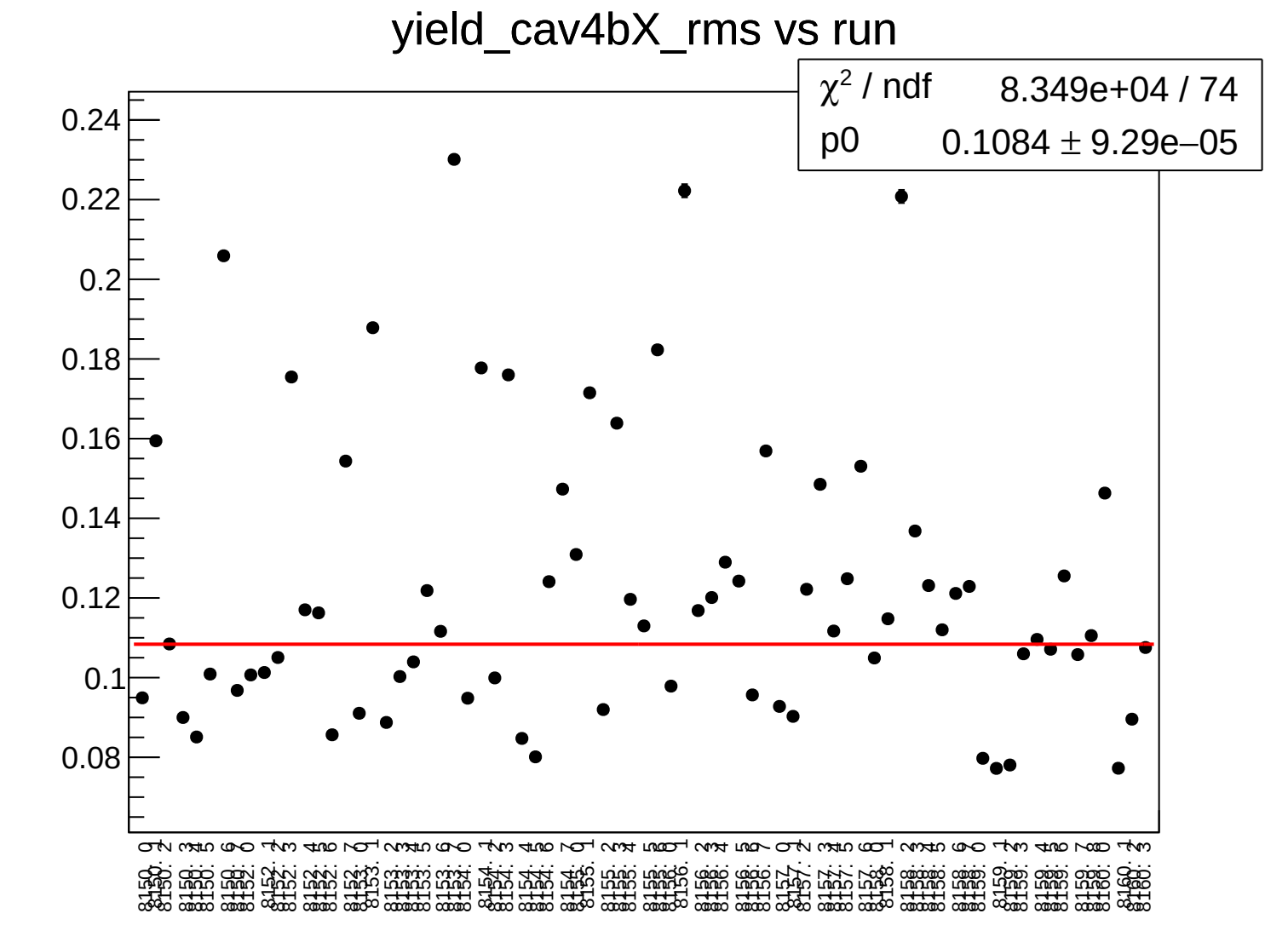

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

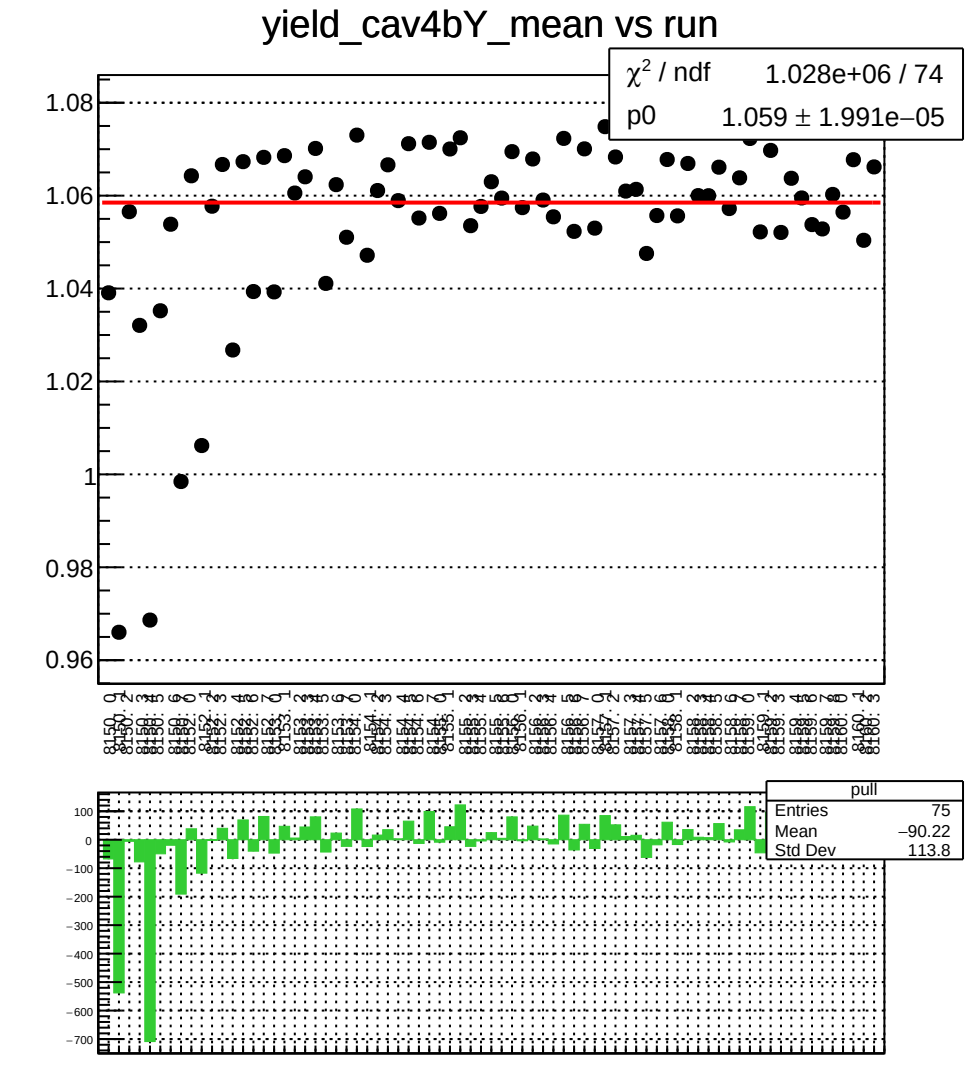

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

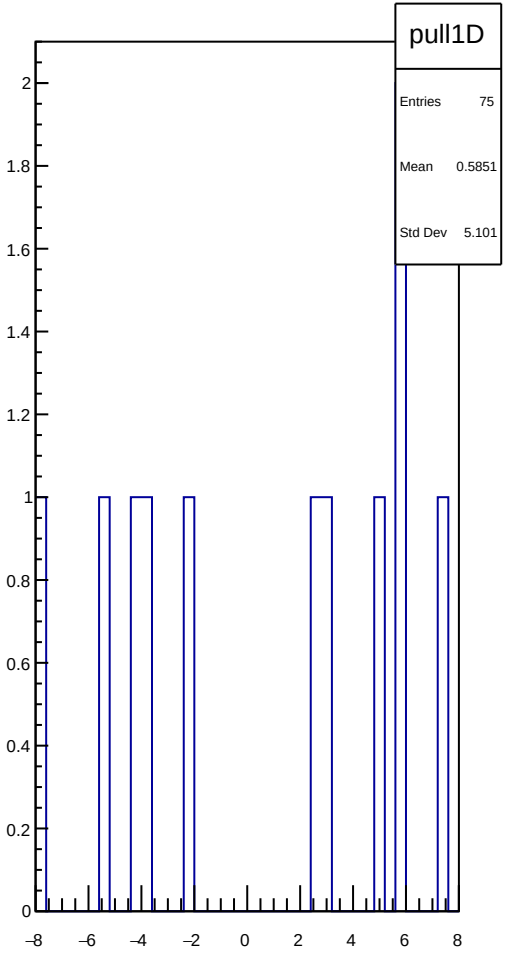

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

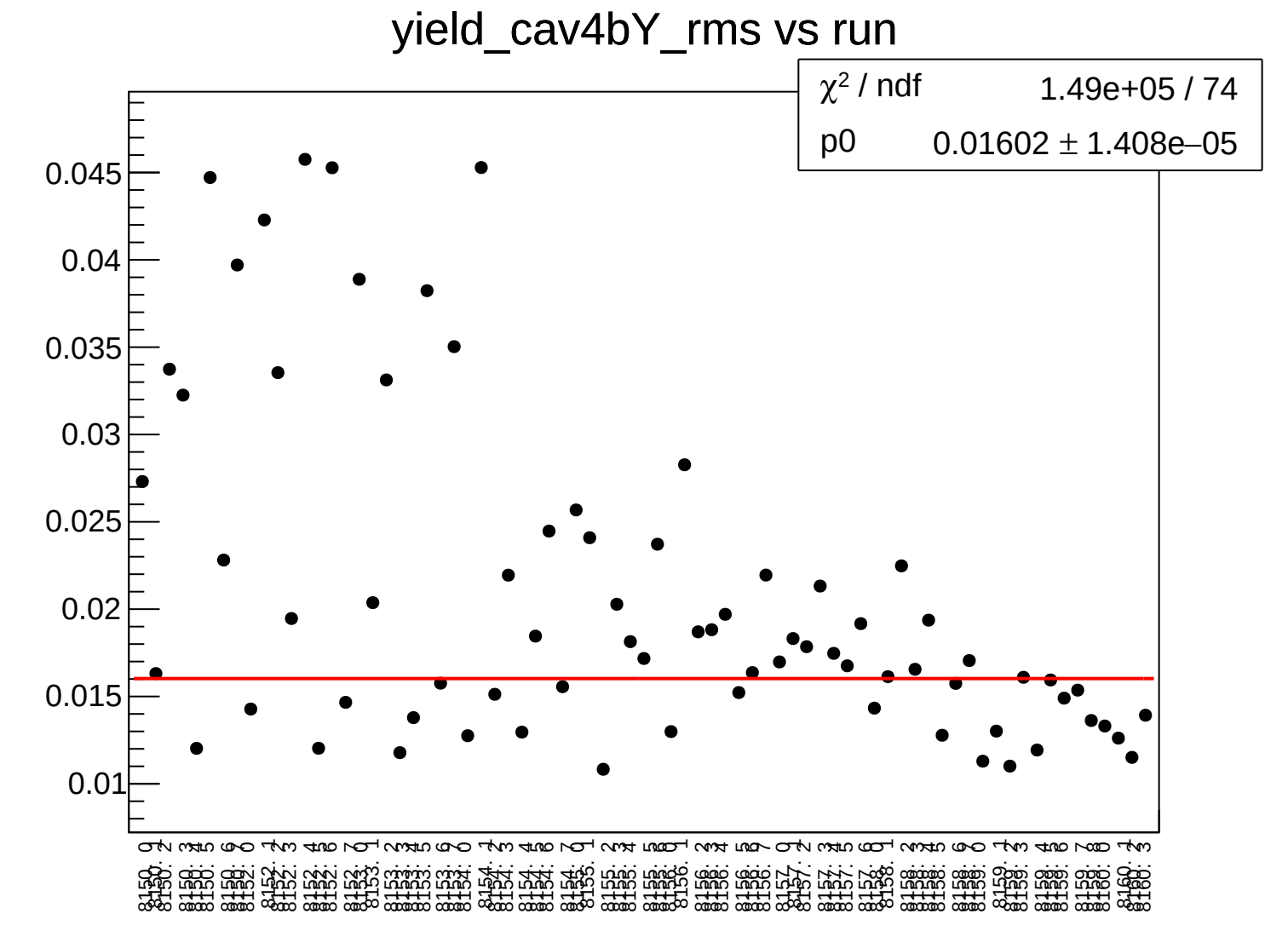

yield_cav4bX_mean vs run
χ² / ndf 2.094e+05 / 74
p0 1.009 ± 0.0001314
1.1
1.05
1
0.95
0.9
pull
Entries 75
Mean 263.9
Std Dev 229.5
100
50
0
−50
−100
−150

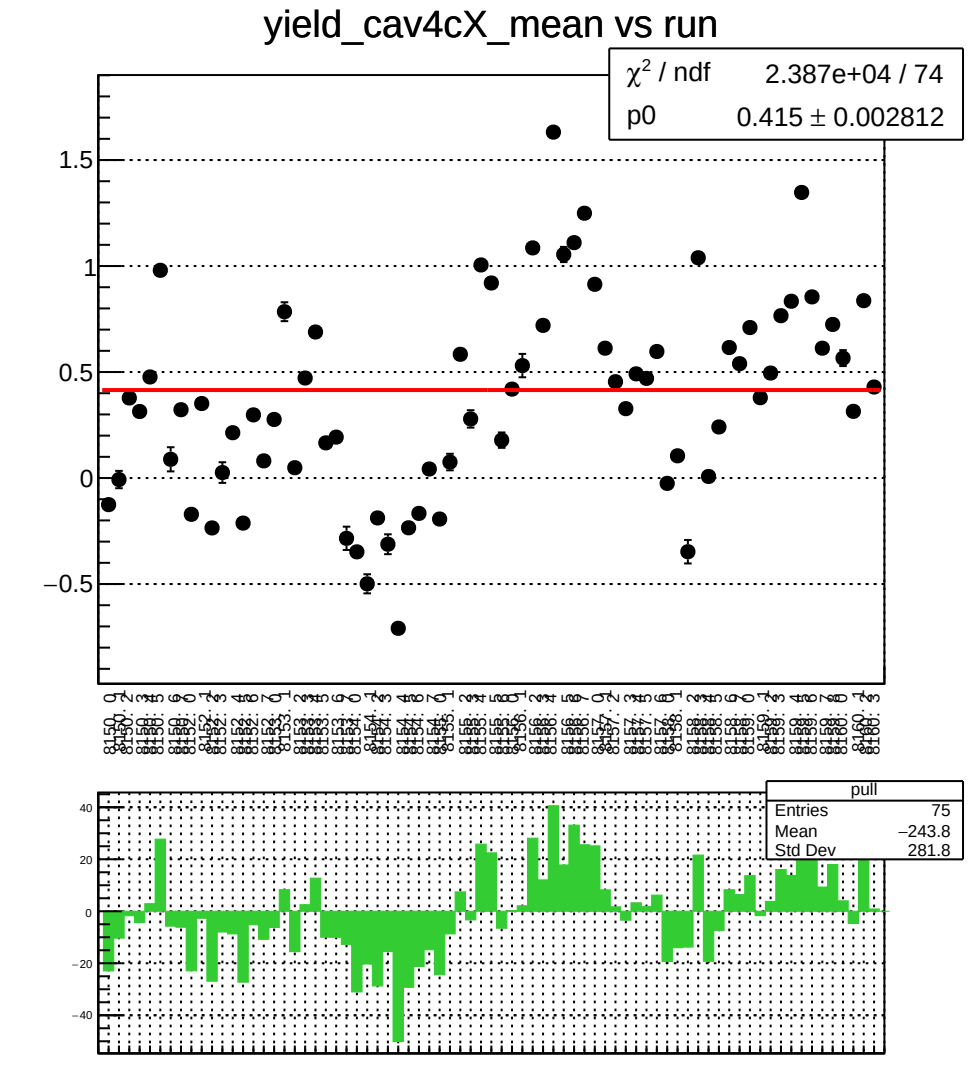

pull1D
Entries 75
Mean 0.5074
Std Dev 5.729
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

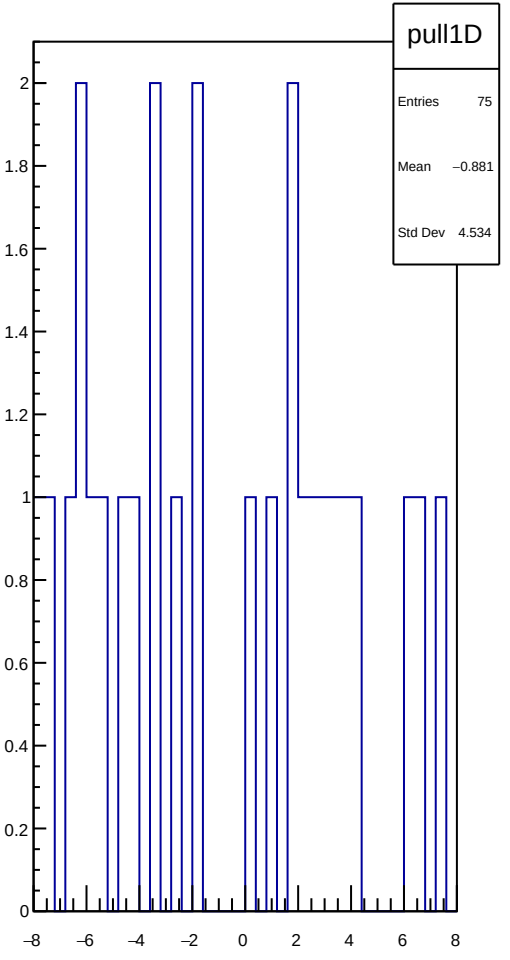

yield_cav4bX_rms vs run
χ² / ndf 8.349e+04 / 74
p0 0.1084 ± 9.29e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

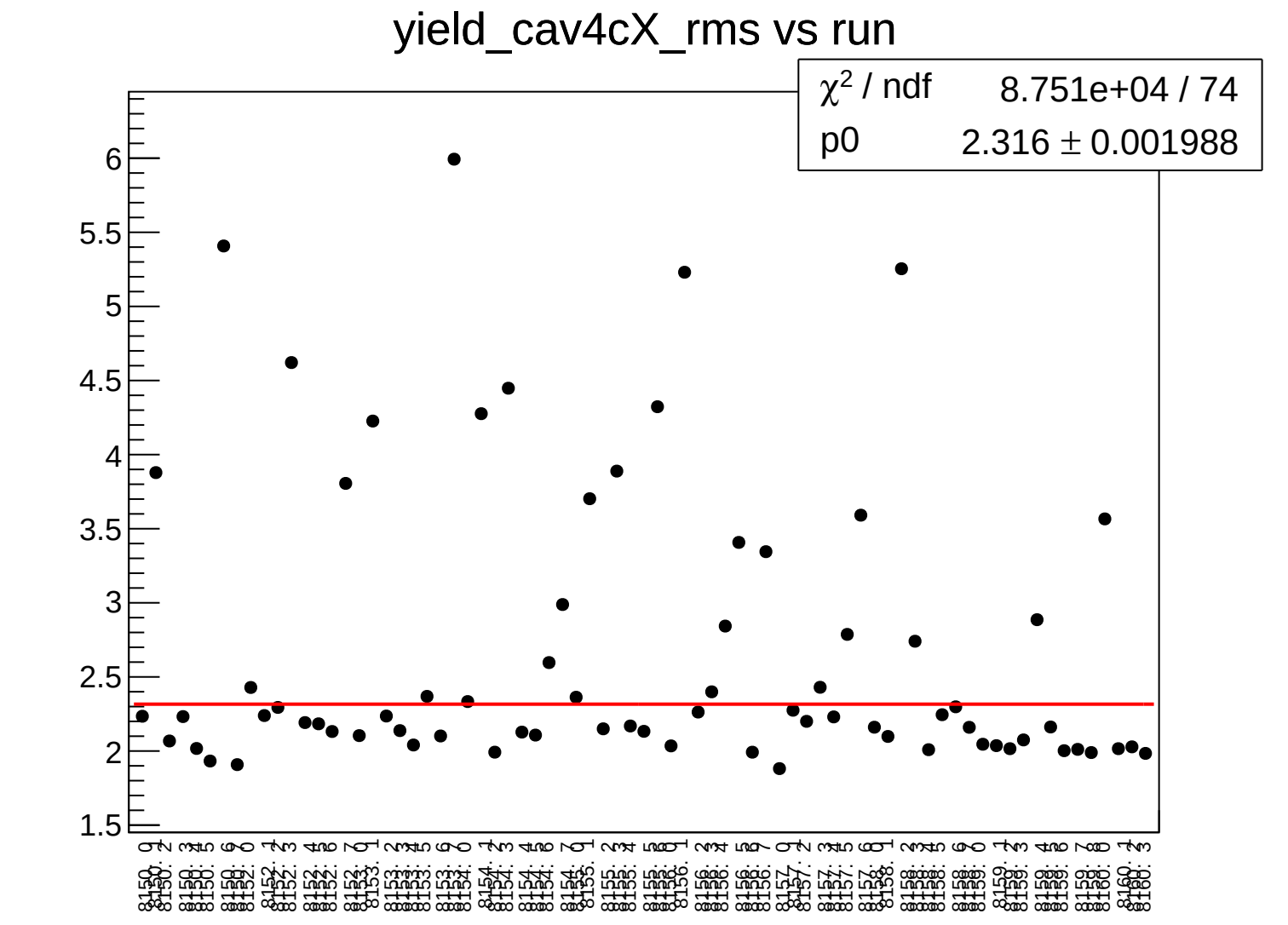

yield_cav4bY_mean vs run
χ² / ndf 1.028e+06 / 74
p0 1.059 ± 1.991e−05
1.08
1.06
1.04
1.02
1
0.98
0.96
pull
Entries 75
Mean −90.22
Std Dev 113.8
100
0
−100
−200
−300
−400
−500
−600
−700

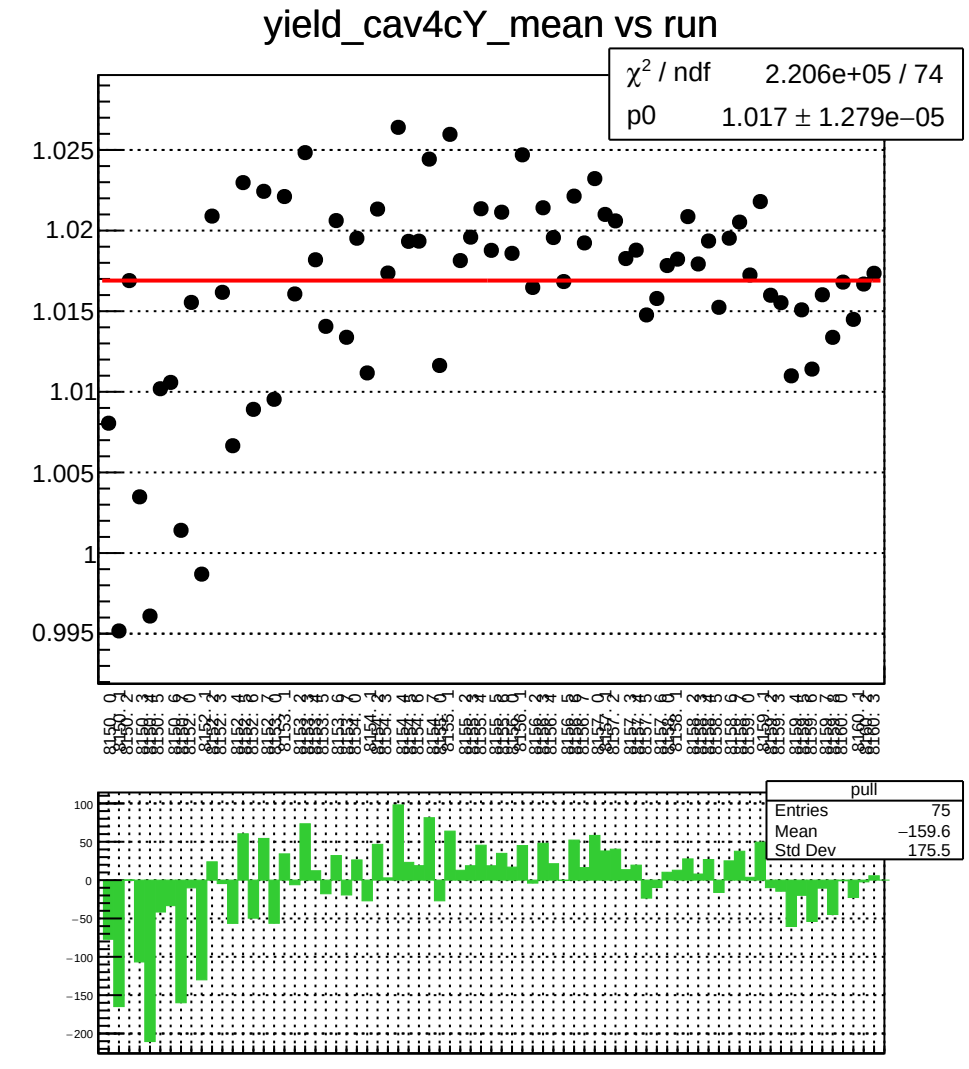

pull1D
Entries 75
Mean 0.5851
Std Dev 5.101
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

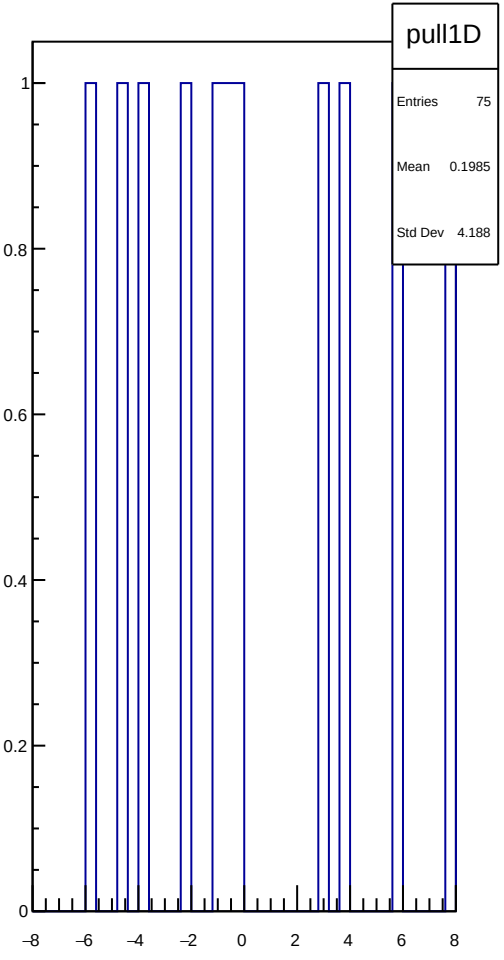

yield_cav4bY_rms vs run
χ² / ndf 1.49e+05 / 74
p0 0.01602 ± 1.408e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

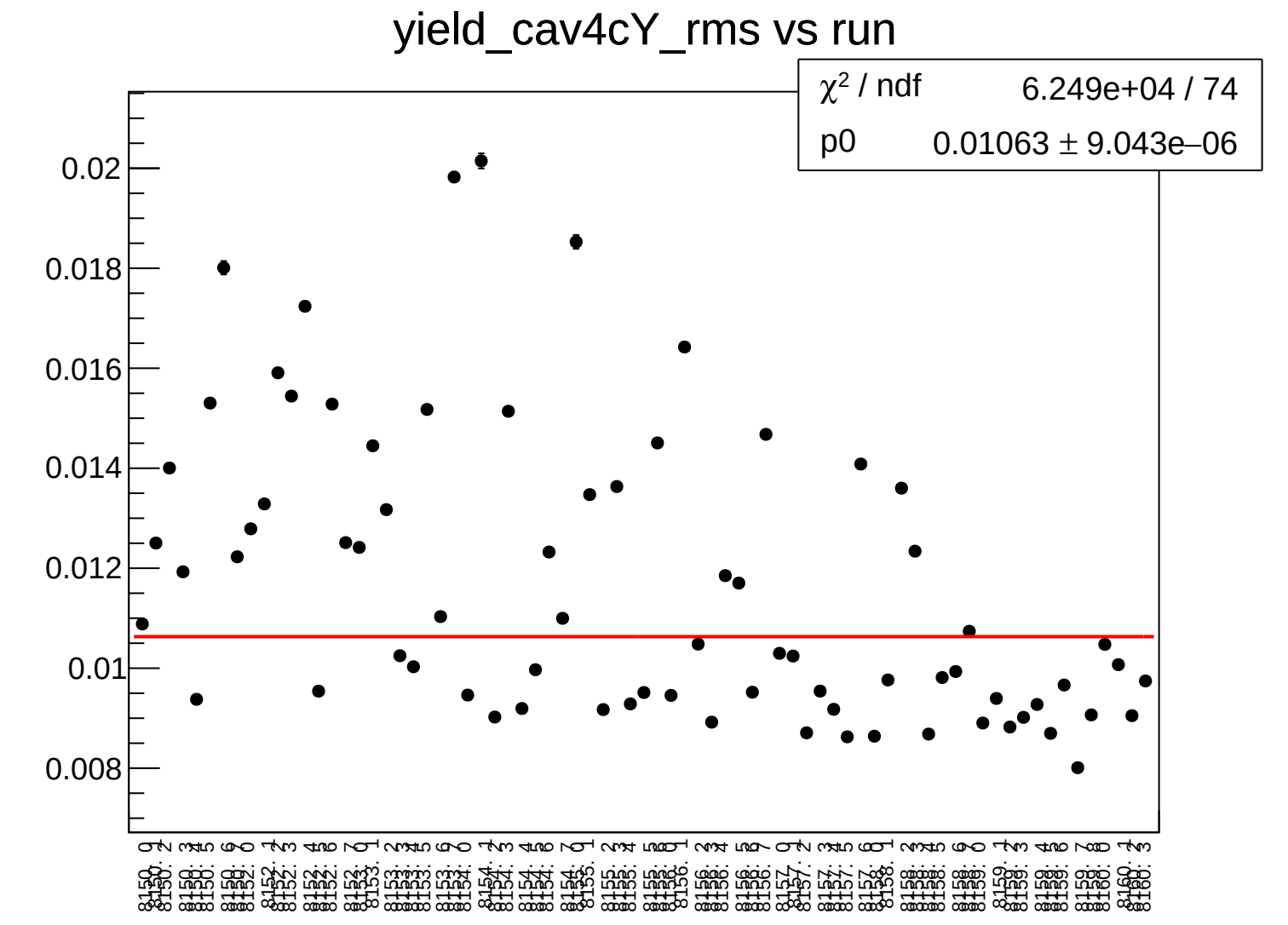

yield_cav4cX_mean vs run
χ² / ndf 2.387e+04 / 74
p0 0.415 ± 0.002812
1.5
1
0.5
0
−0.5
pull
Entries 75
Mean −243.8
Std Dev 281.8
40
20
0
−20
−40

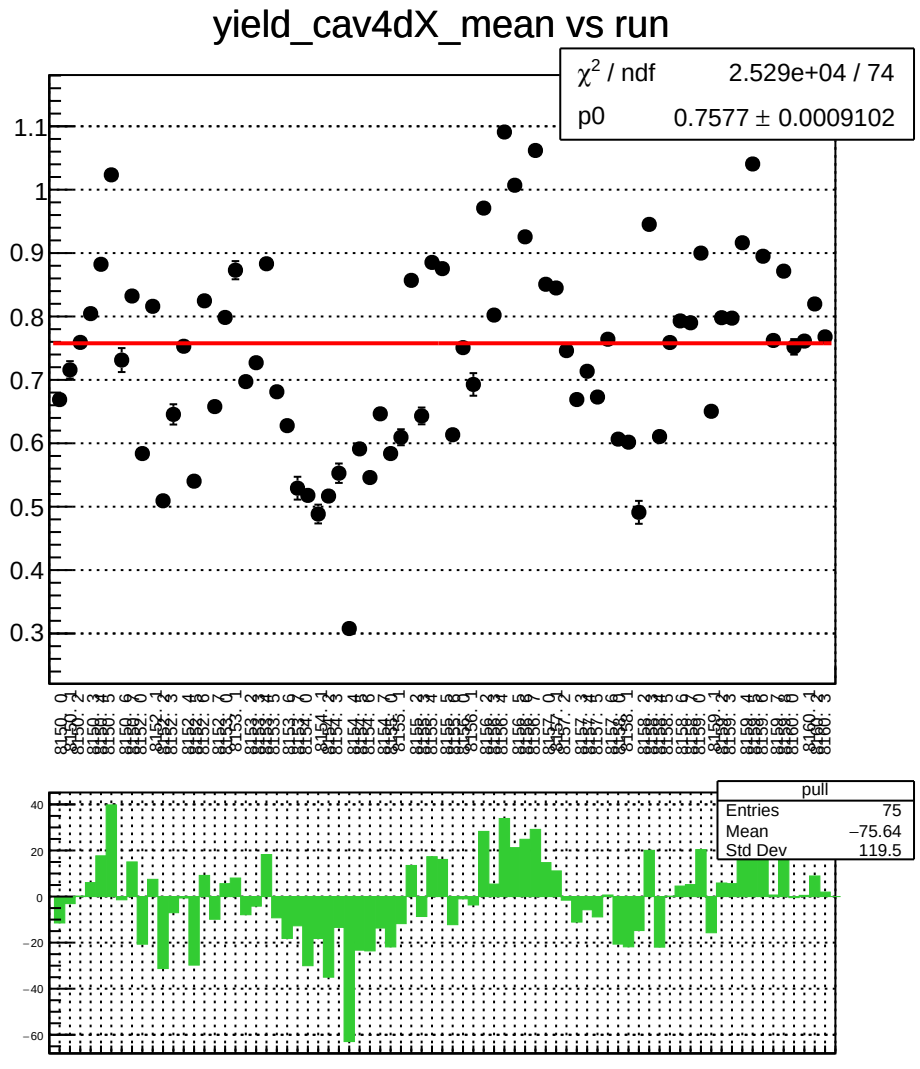

pull1D
Entries 75
Mean −0.881
Std Dev 4.534
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

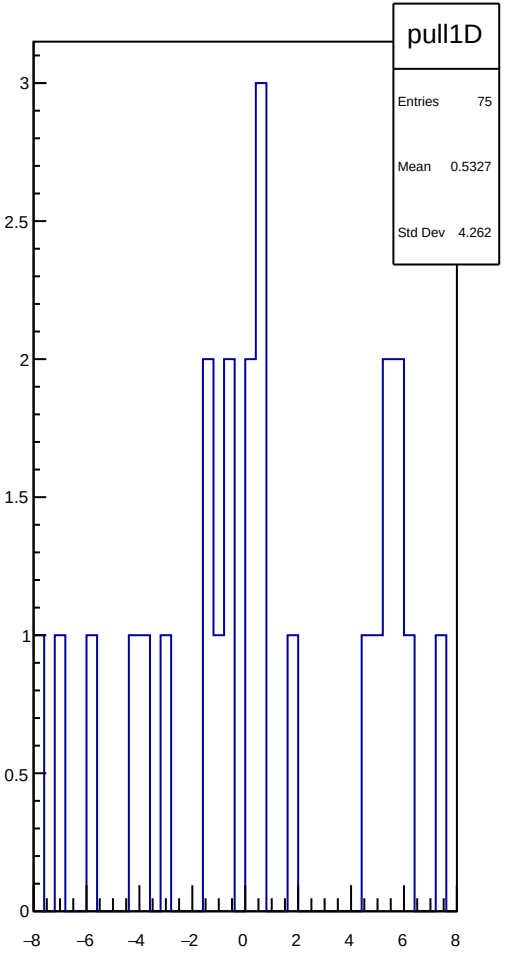

yield_cav4cX_rms vs run
χ^2 / ndf 8.751e+04 / 74
p0 2.316 ± 0.001988
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5

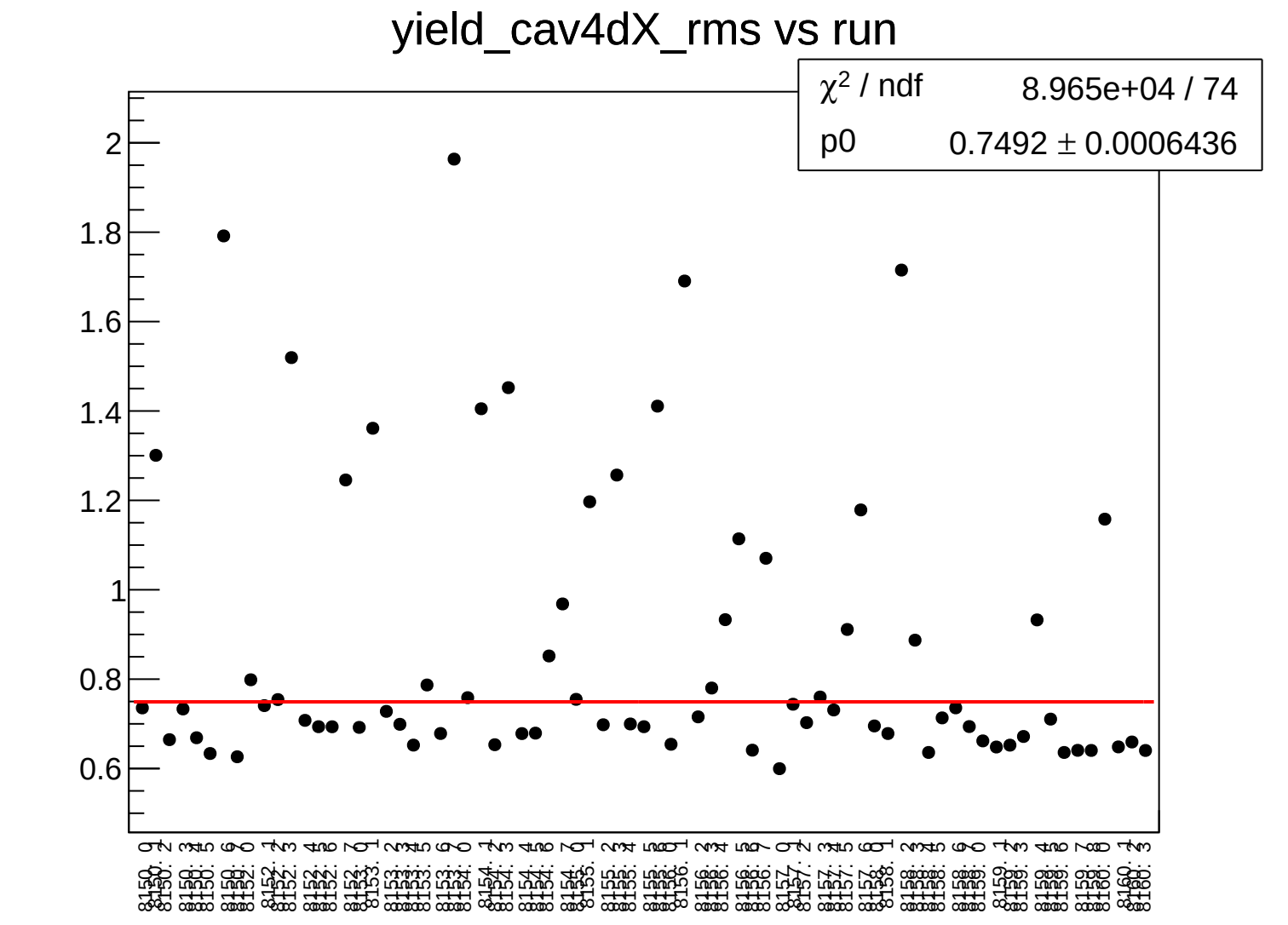

yield_cav4cY_mean vs run
χ² / ndf 2.206e+05 / 74
p0 1.017 ± 1.279e−05
1.025
1.02
1.015
1.01
1.005
1
0.995
pull
Entries 75
Mean −159.6
Std Dev 175.5
100
50
0
−50
−100
−150
−200

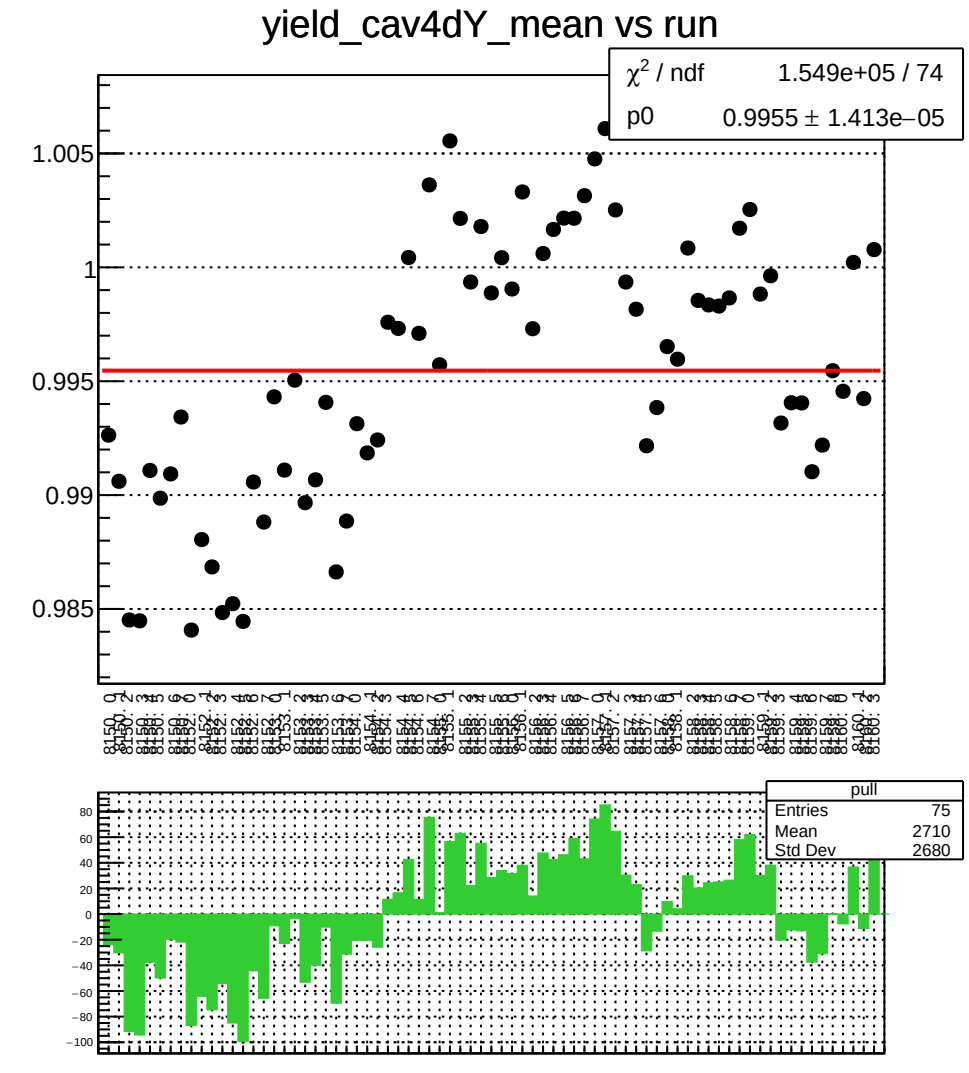

pull1D
Entries 75
Mean 0.1985
Std Dev 4.188
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

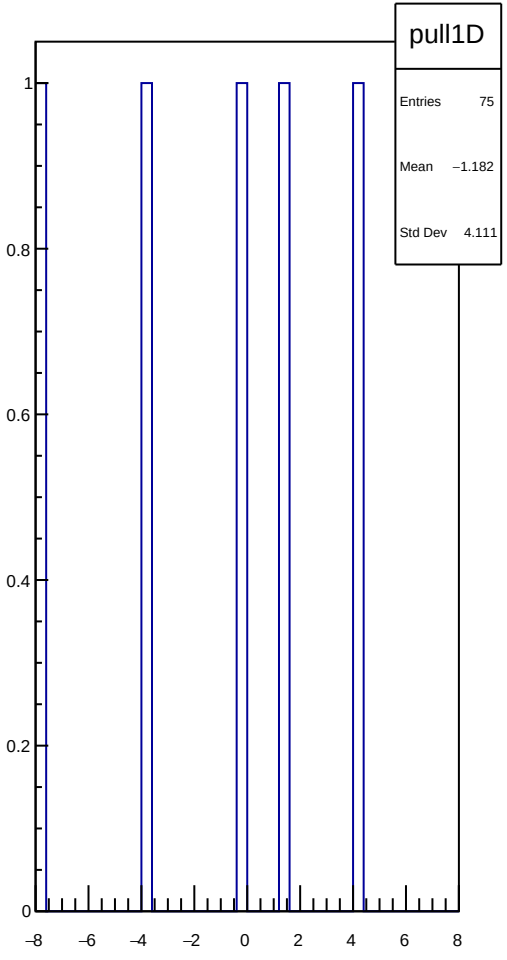

yield_cav4cY_rms vs run
χ² / ndf 6.249e+04 / 74
p0 0.01063 ± 9.043e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

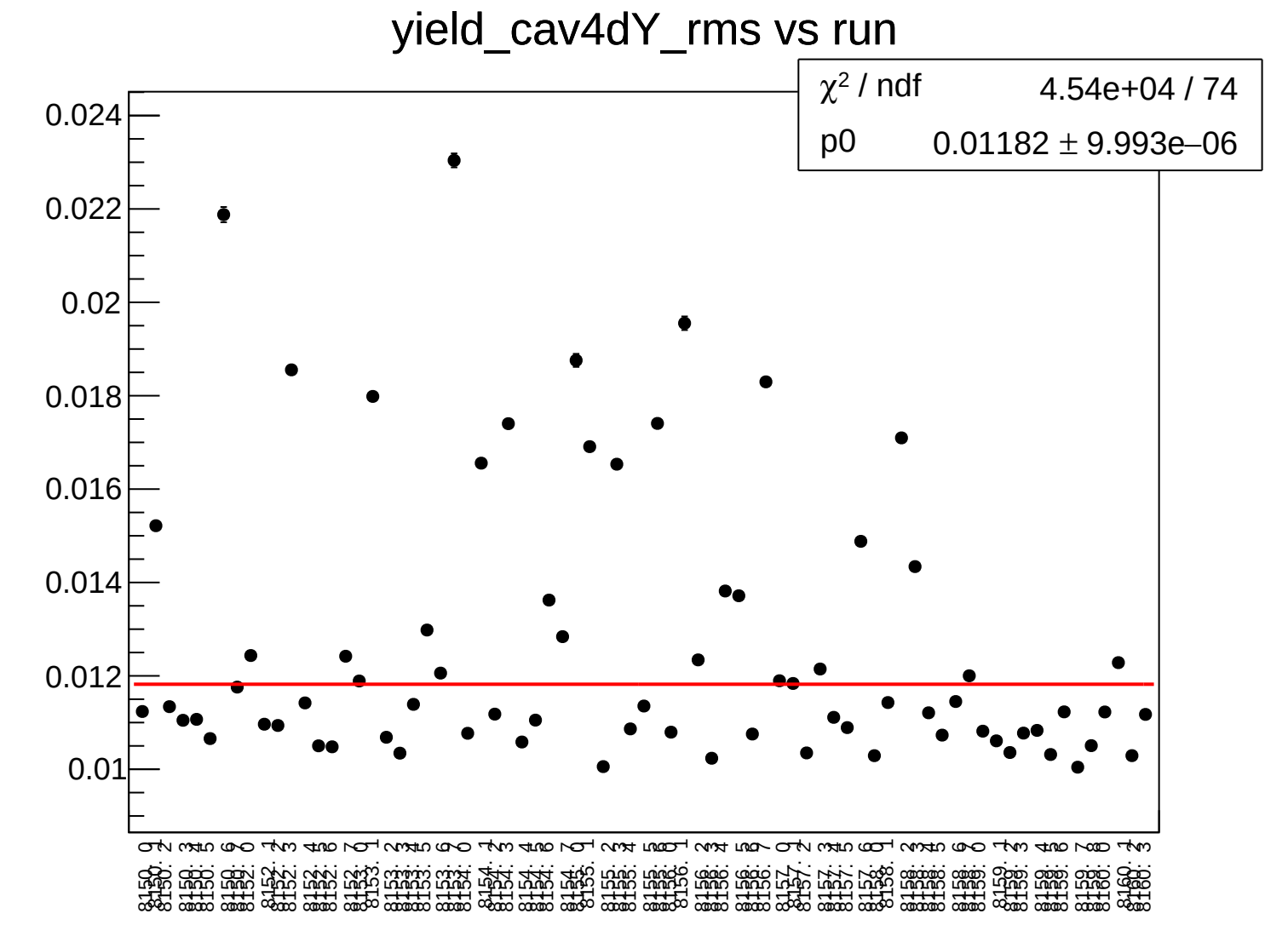

yield_cav4dX_mean vs run
χ² / ndf 2.529e+04 / 74
p0 0.7577 ± 0.0009102
pull
Entries 75
Mean −75.64
Std Dev 119.5

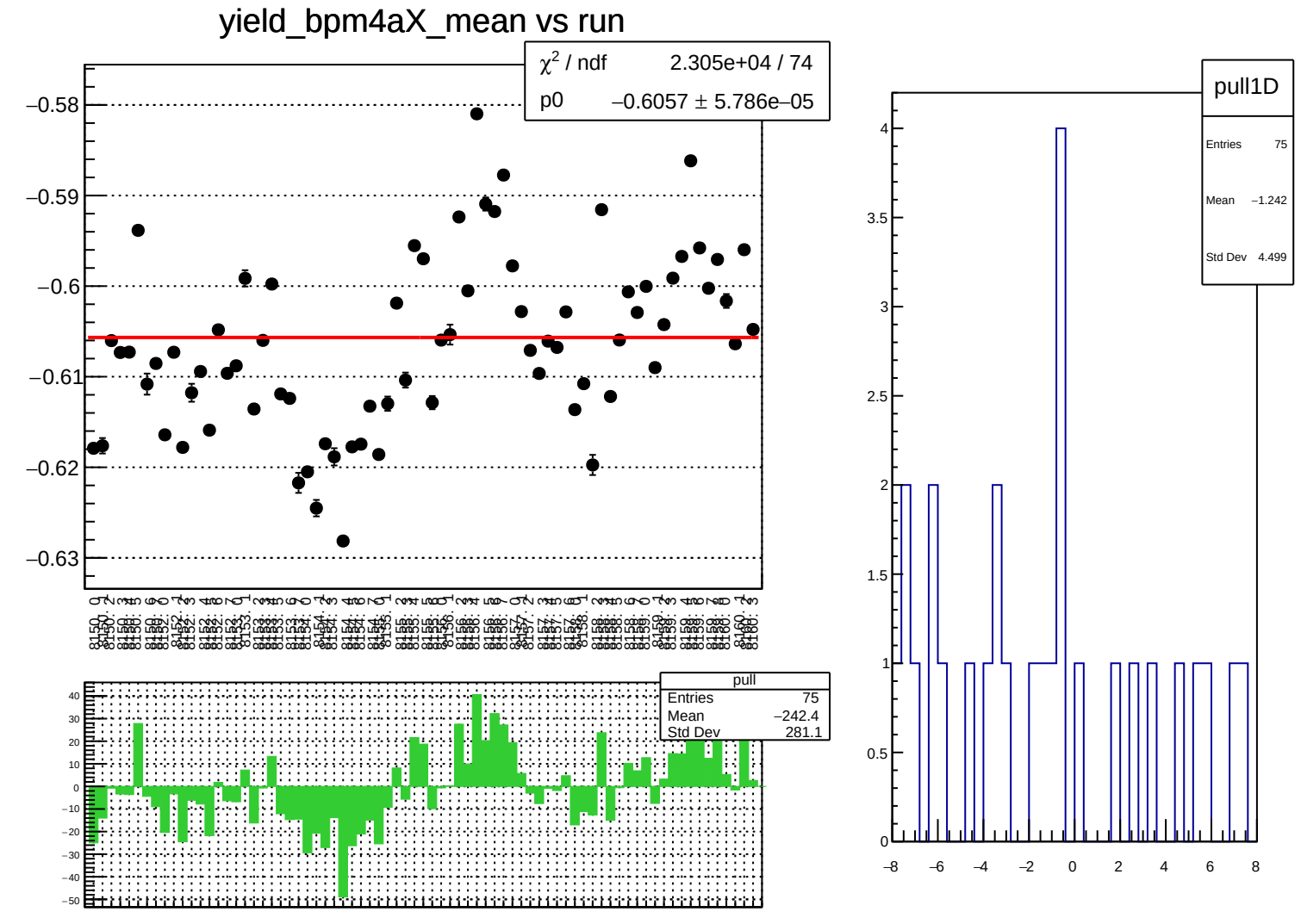

pull1D
Entries 75
Mean 0.5327
Std Dev 4.262

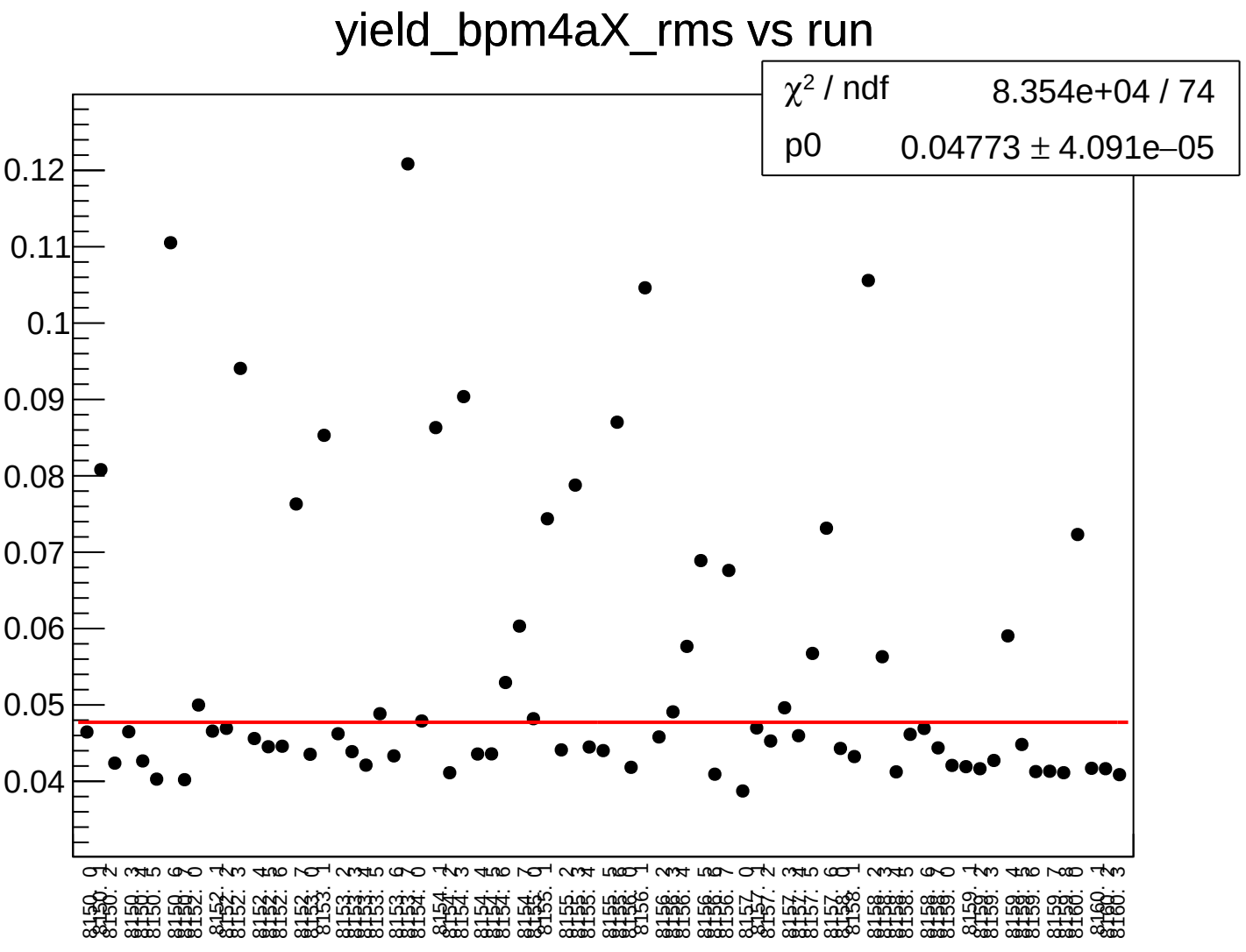

yield_cav4dX_rms vs run
χ² / ndf 8.965e+04 / 74
p0 0.7492 ± 0.0006436
2
1.8
1.6
1.4
1.2
1
0.8
0.6

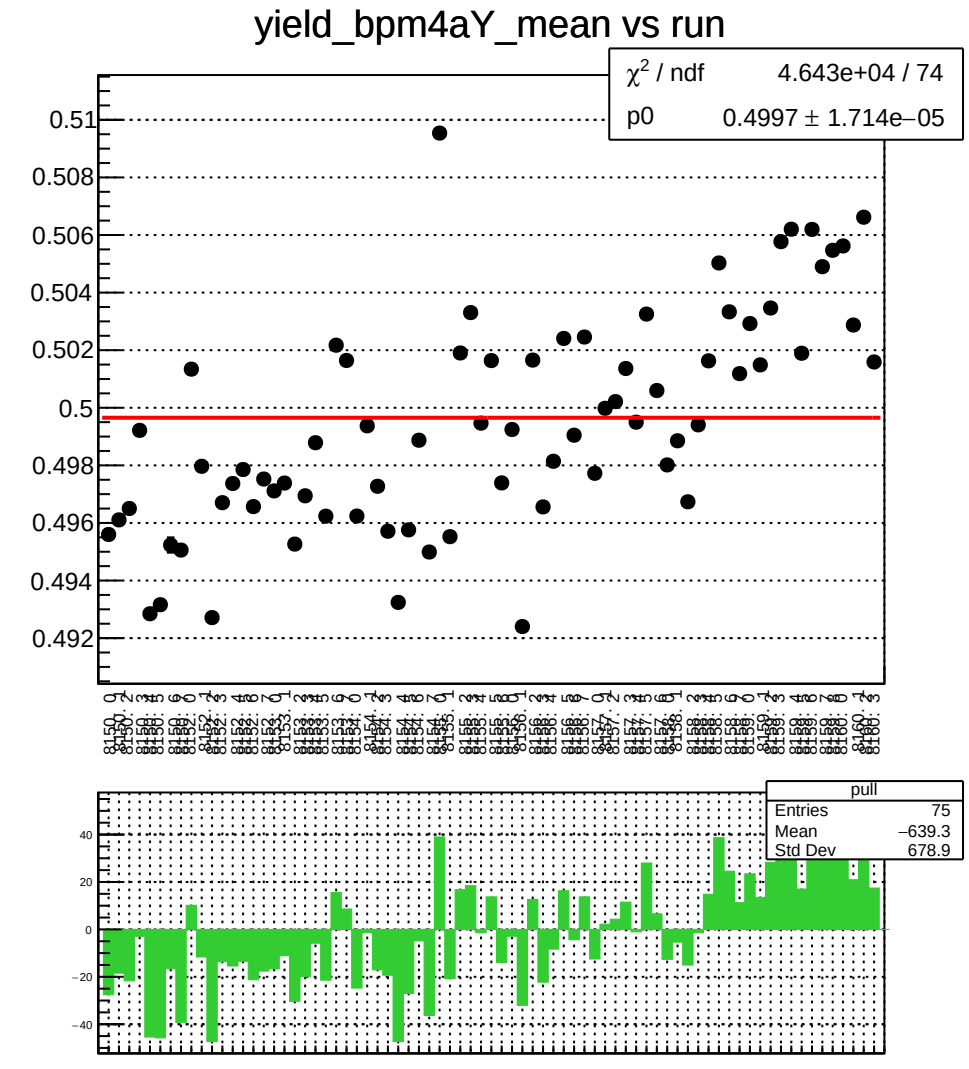

yield_cav4dY_mean vs run
χ² / ndf 1.549e+05 / 74
p0 0.9955 ± 1.413e−05
1.005
1
0.995
0.99
0.985
pull
Entries 75
Mean 2710
Std Dev 2680
80
60
40
20
0
−20
−40
−60
−80
−100

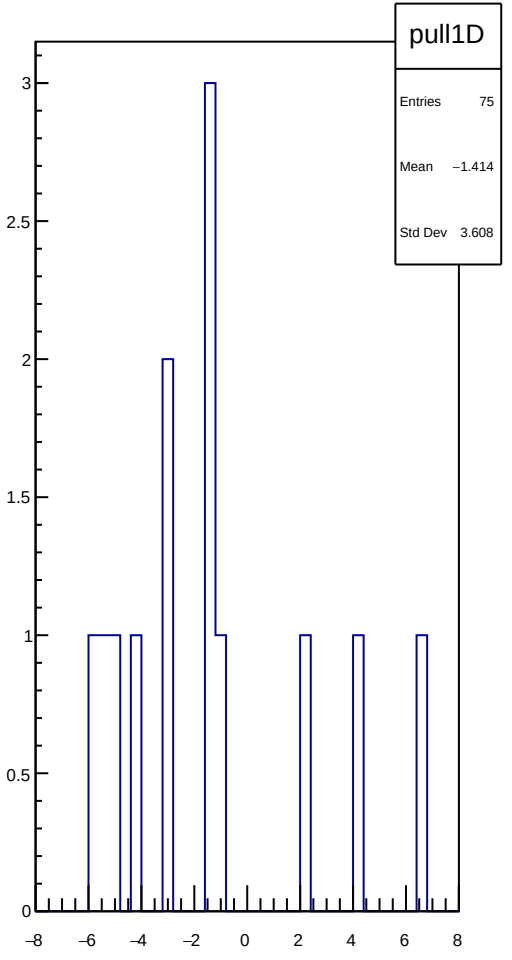

pull1D
Entries 75
Mean −1.182
Std Dev 4.111
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

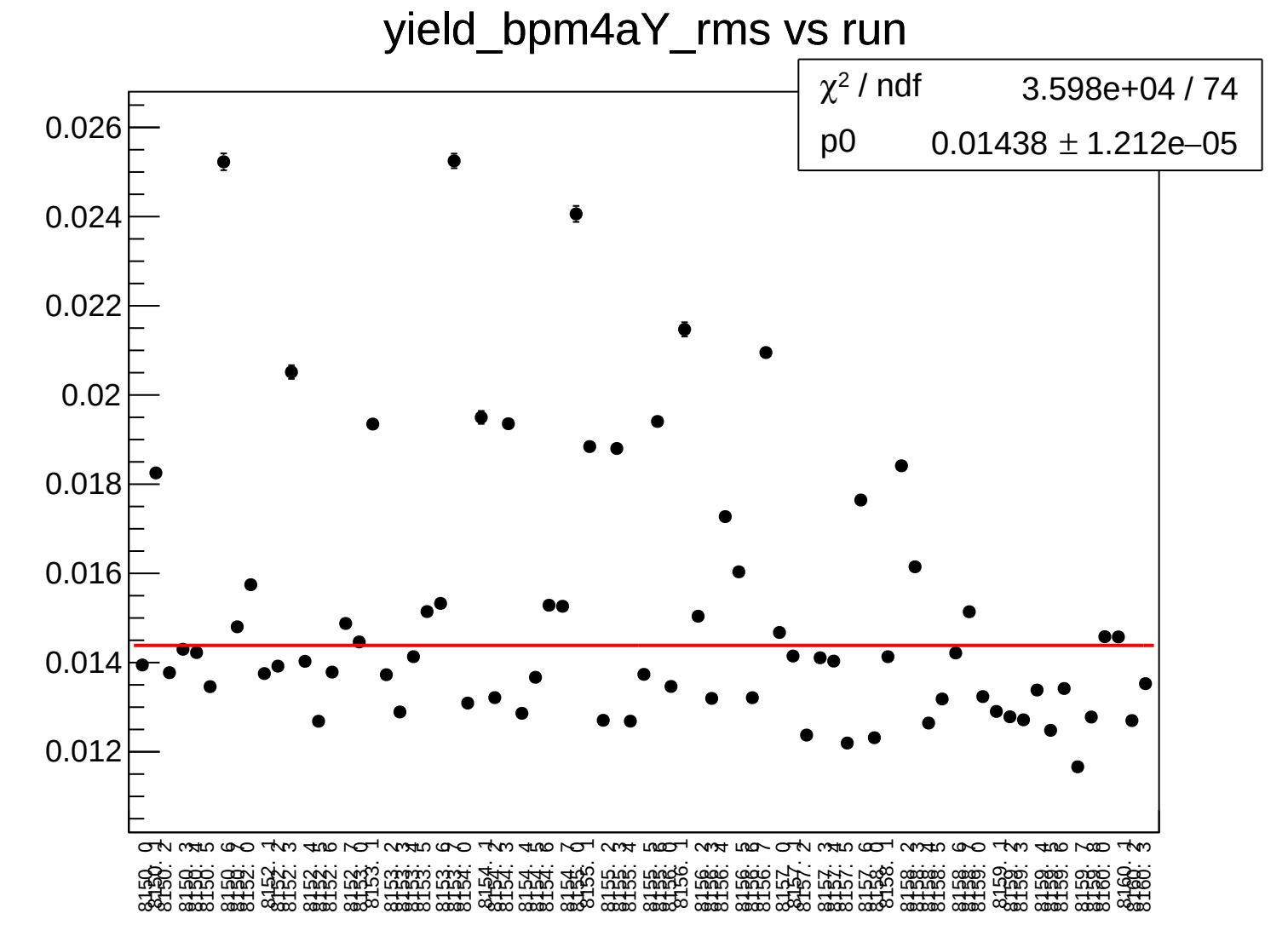

yield_cav4dY_rms vs run
χ² / ndf 4.54e+04 / 74
p0 0.01182 ± 9.993e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

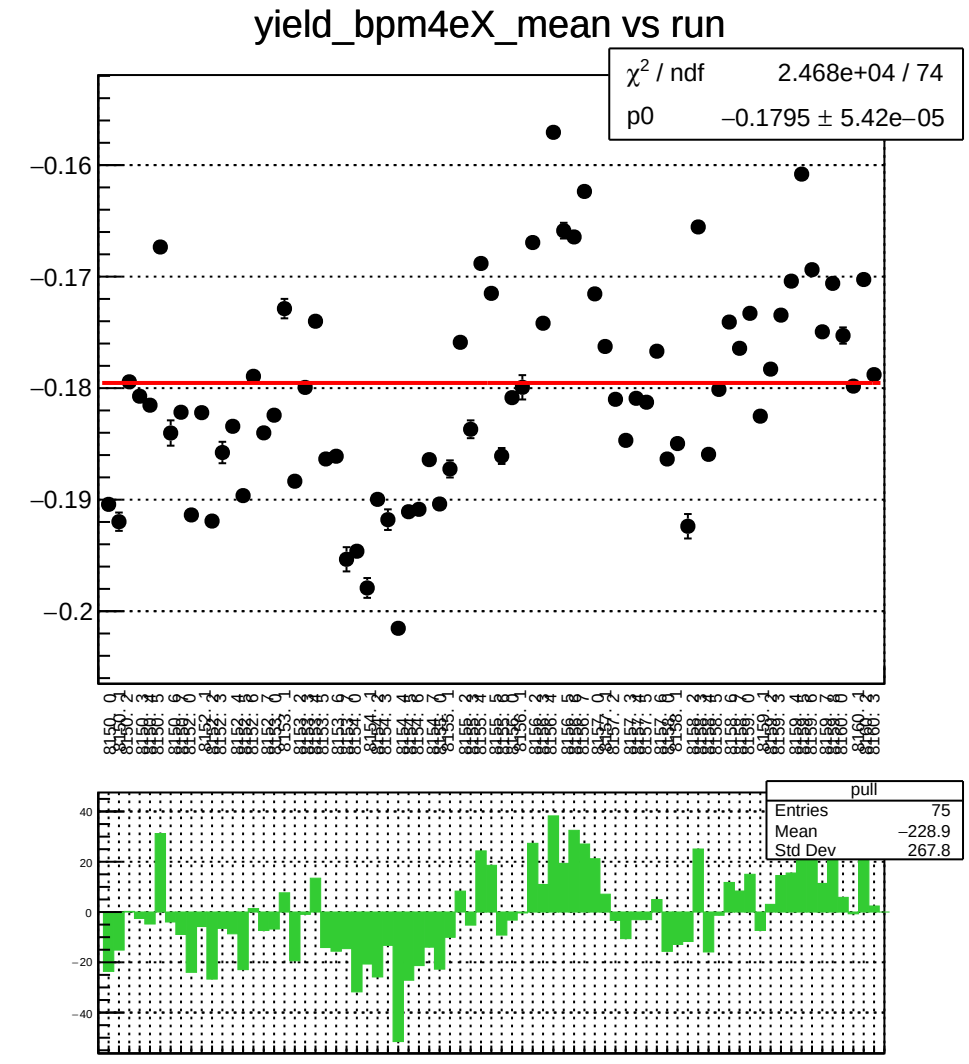

yield_bpm4aX_mean vs run
χ² / ndf 2.305e+04 / 74
p0 −0.6057 ± 5.786e−05
−0.58
−0.59
−0.6
−0.61
−0.62
−0.63
pull
Entries 75
Mean −242.4
Std Dev 281.1
pull1D
Entries 75
Mean −1.242
Std Dev 4.499

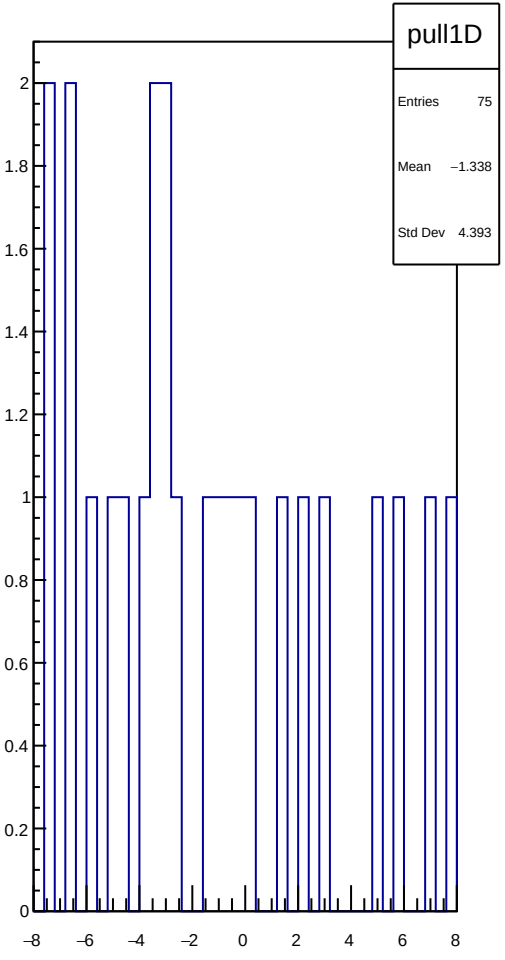

yield_bpm4aX_rms vs run
χ² / ndf 8.354e+04 / 74
p0 0.04773 ± 4.091e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

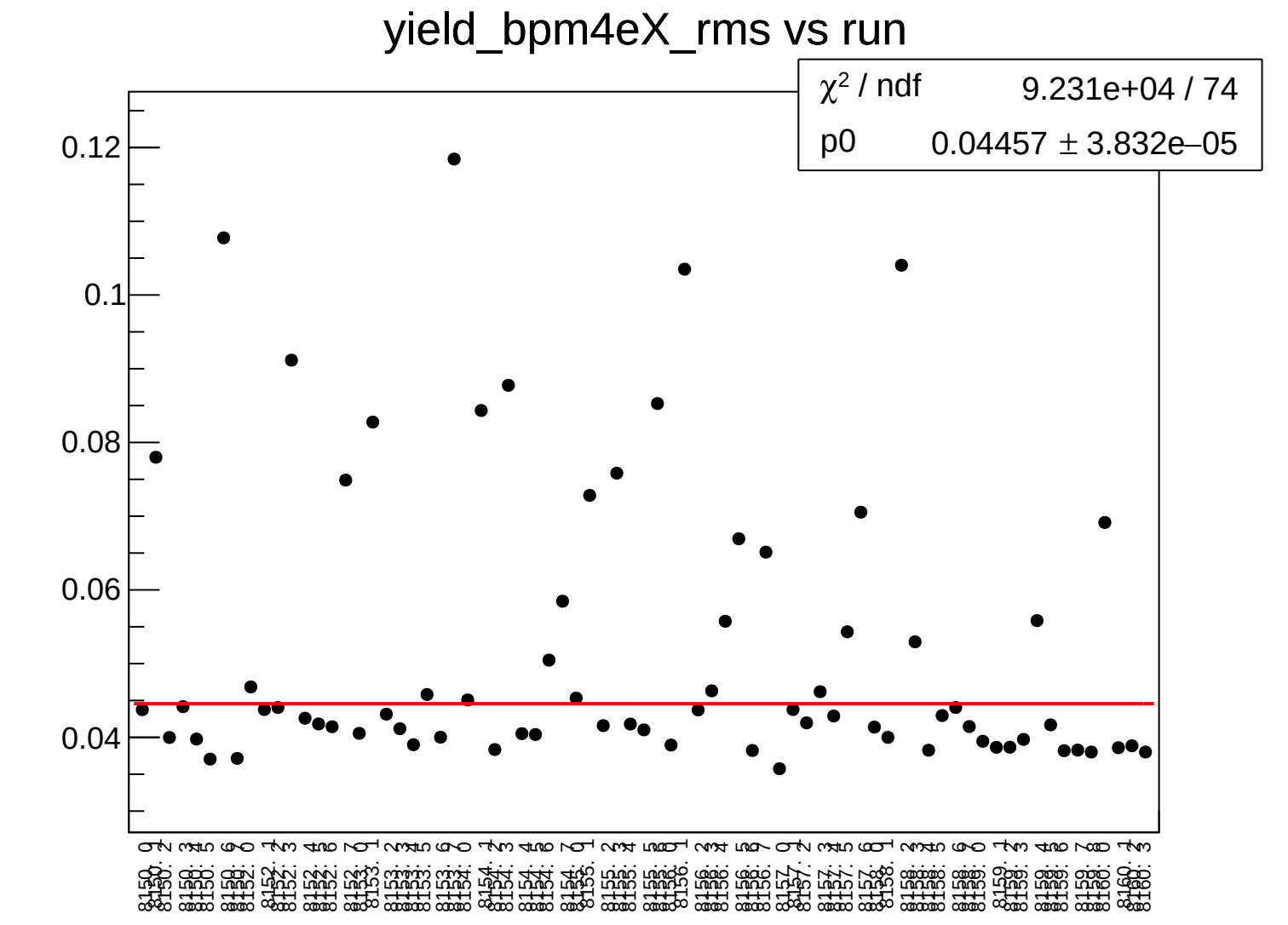

yield_bpm4aY_mean vs run
χ² / ndf 4.643e+04 / 74
p0 0.4997 ± 1.714e−05
0.51
0.508
0.506
0.504
0.502
0.5
0.498
0.496
0.494
0.492
pull
Entries 75
Mean −639.3
Std Dev 678.9
40
20
0
−20
−40

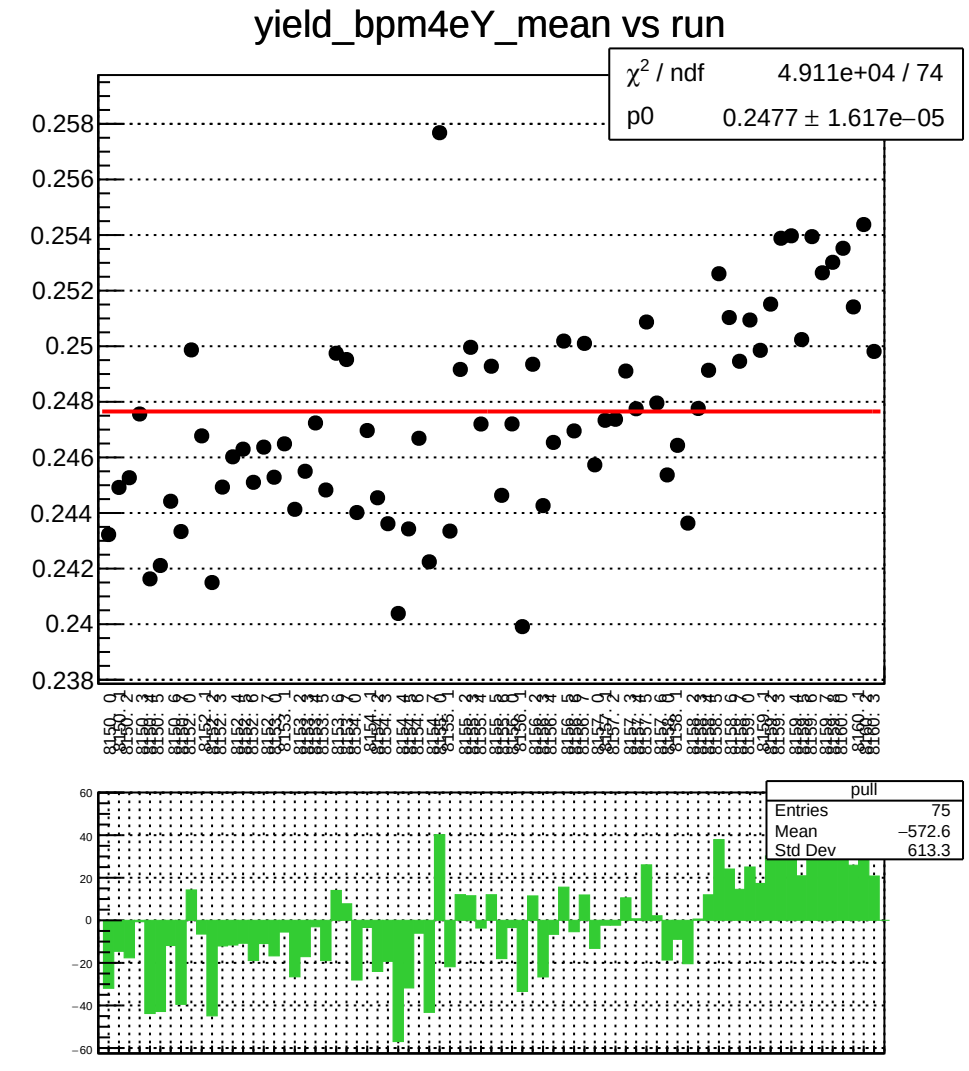

pull1D
Entries 75
Mean −1.414
Std Dev 3.608
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

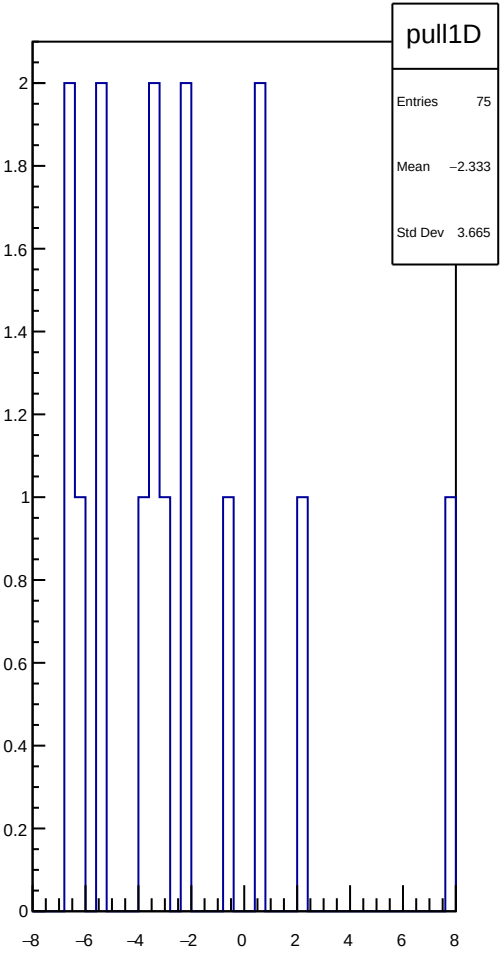

yield_bpm4aY_rms vs run
χ² / ndf 3.598e+04 / 74
p0 0.01438 ± 1.212e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

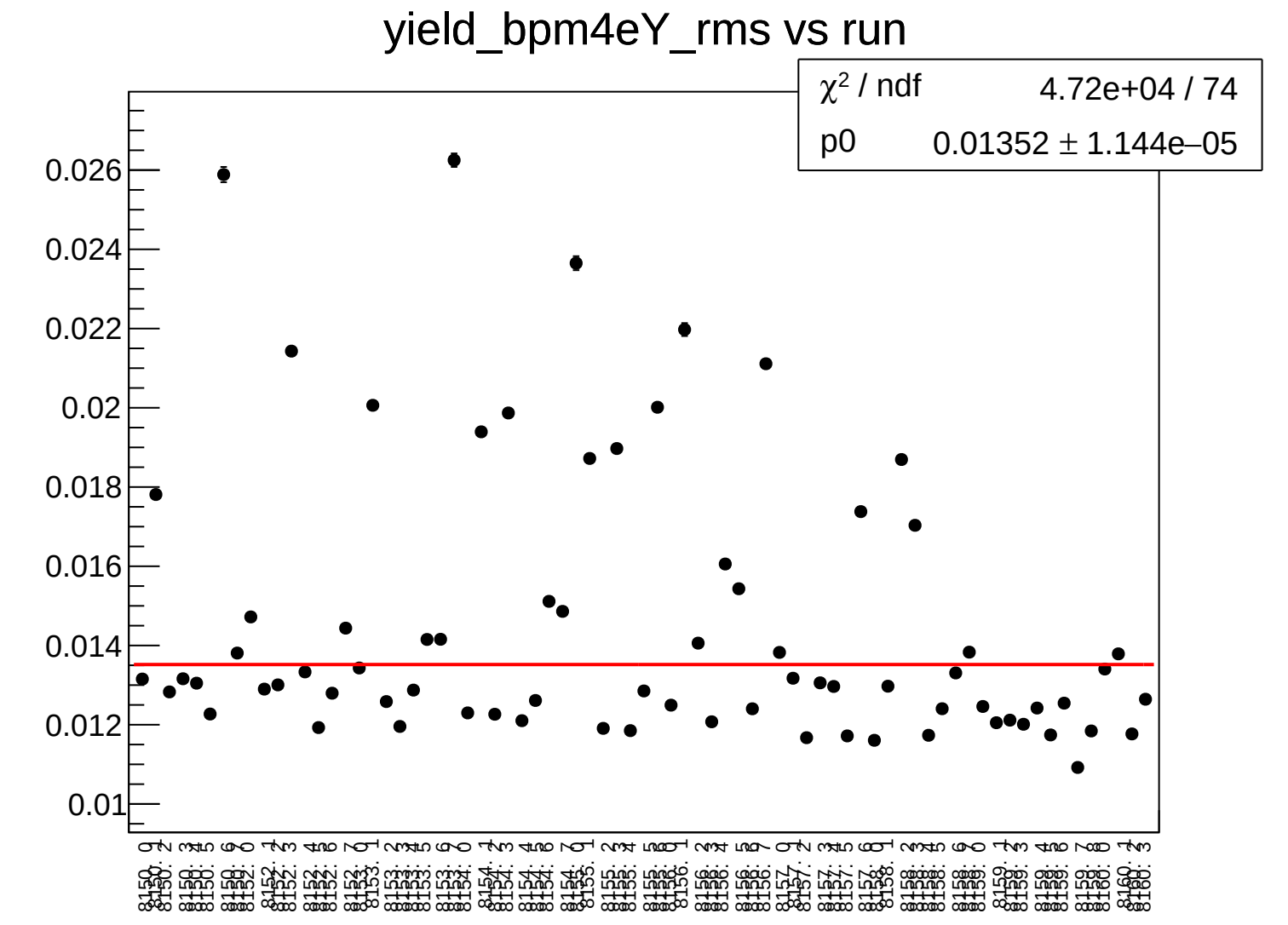

yield_bpm4eX_mean vs run
χ² / ndf 2.468e+04 / 74
p0 −0.1795 ± 5.42e−05
−0.16
−0.17
−0.18
−0.19
−0.2
pull
Entries 75
Mean −228.9
Std Dev 267.8
40
20
0
−20
−40

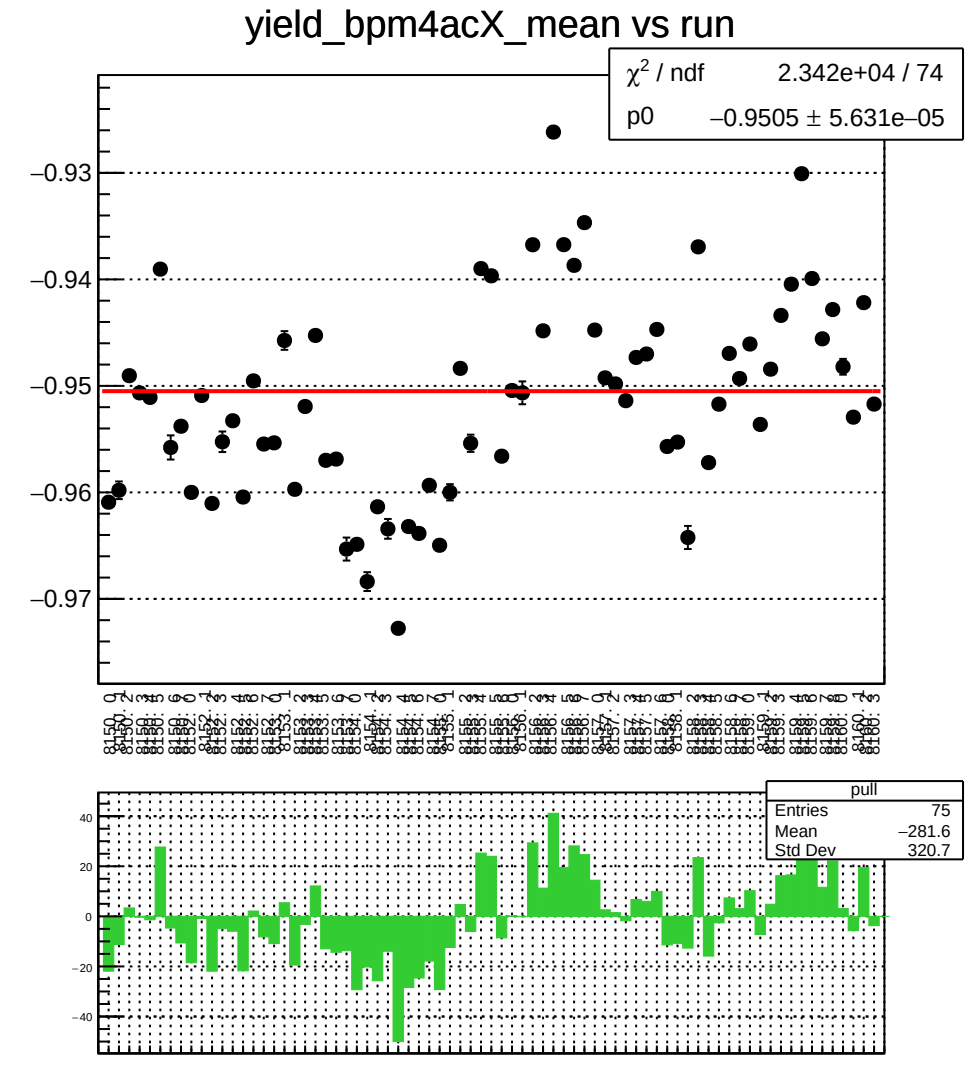

pull1D
Entries 75
Mean −1.338
Std Dev 4.393
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

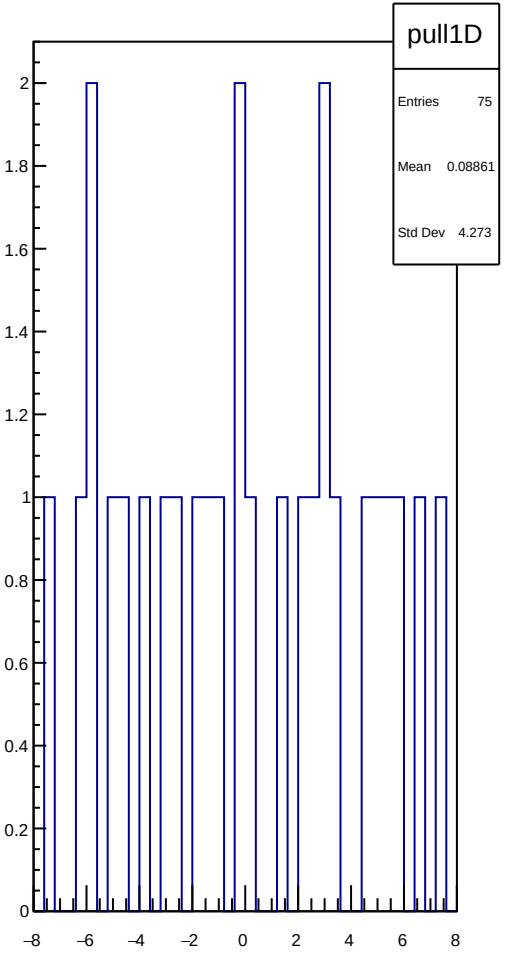

yield_bpm4eX_rms vs run
χ² / ndf 9.231e+04 / 74
p0 0.04457 ± 3.832e–05
0.12
0.1
0.08
0.06
0.04

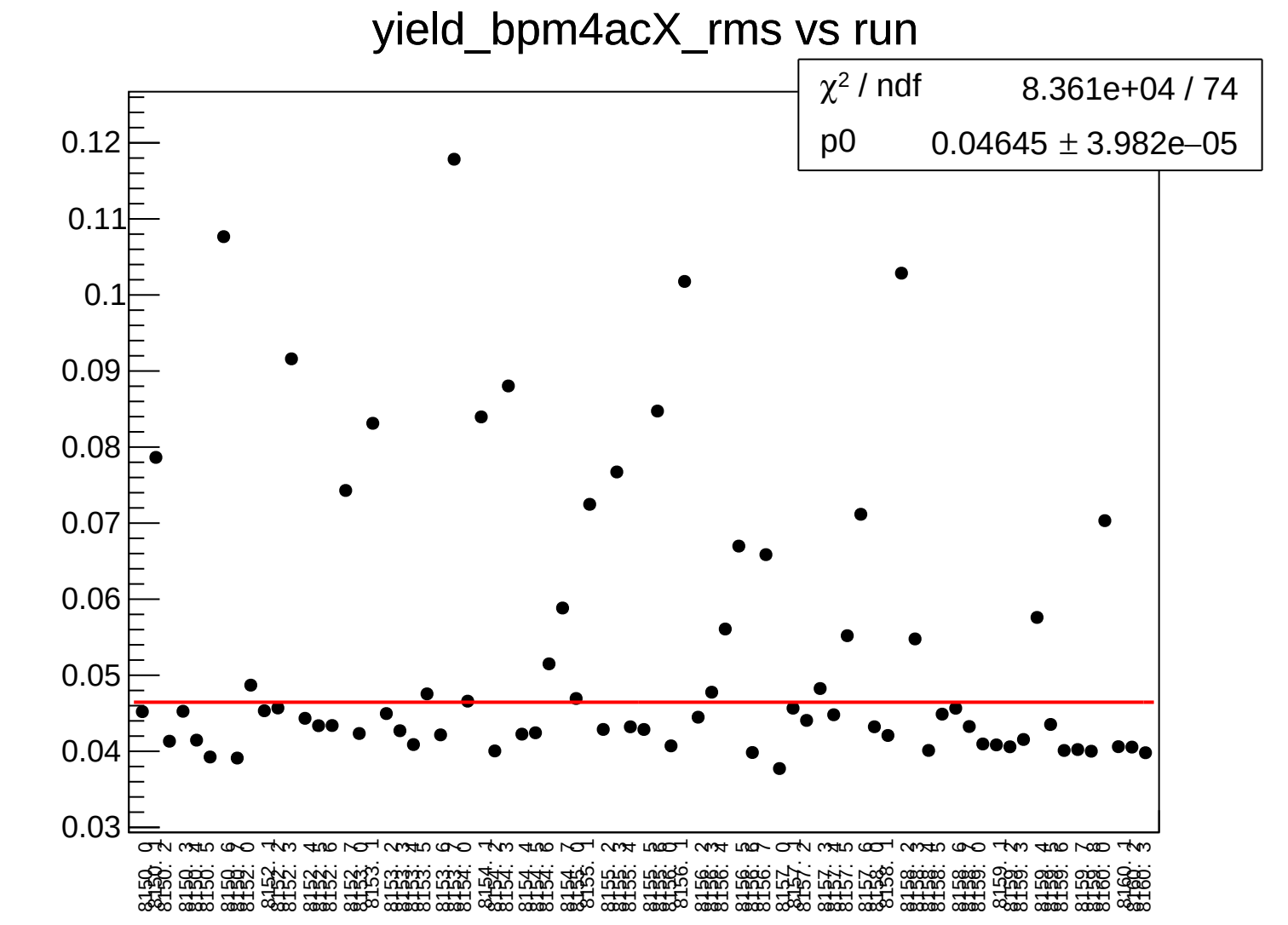

yield_bpm4eY_mean vs run
χ² / ndf 4.911e+04 / 74
p0 0.2477 ± 1.617e−05
pull
Entries 75
Mean −572.6
Std Dev 613.3

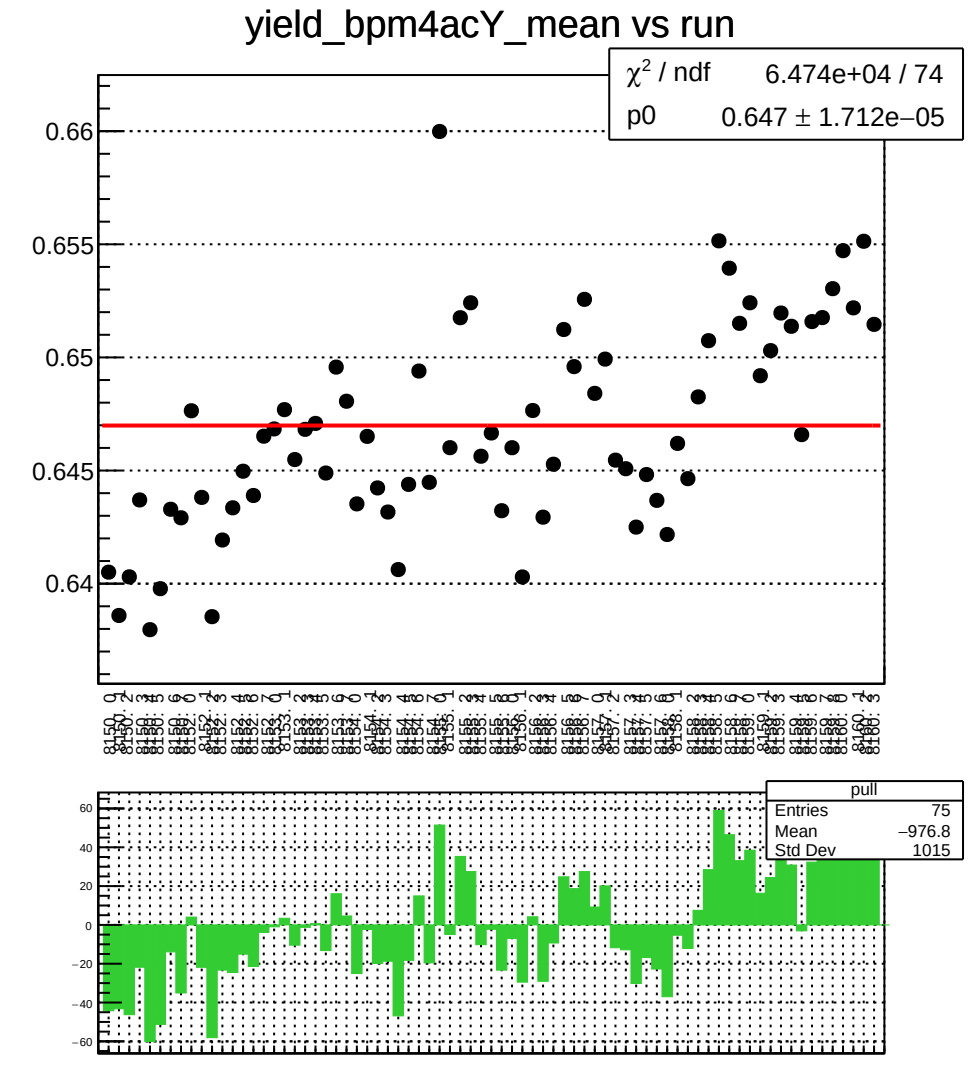

pull1D
Entries 75
Mean −2.333
Std Dev 3.665

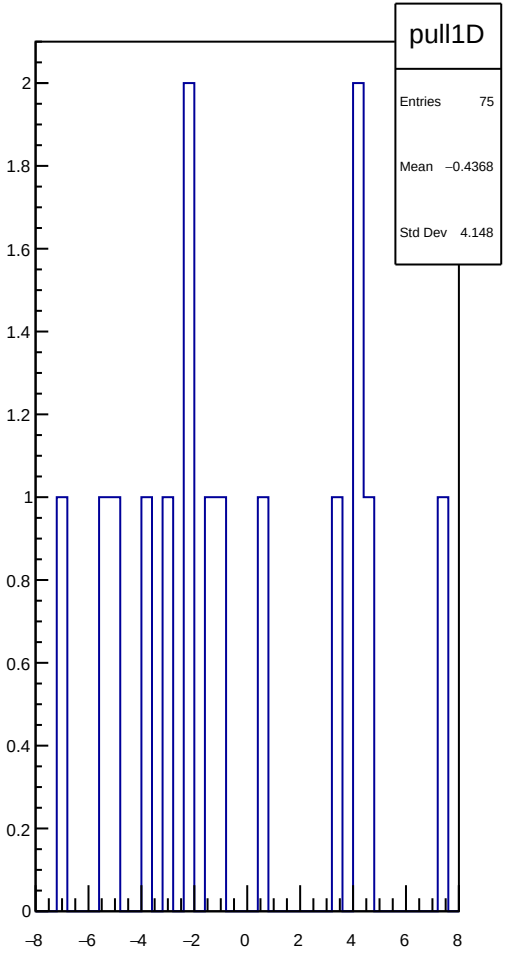

yield_bpm4eY_rms vs run
χ² / ndf 4.72e+04 / 74
p0 0.01352 ± 1.144e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

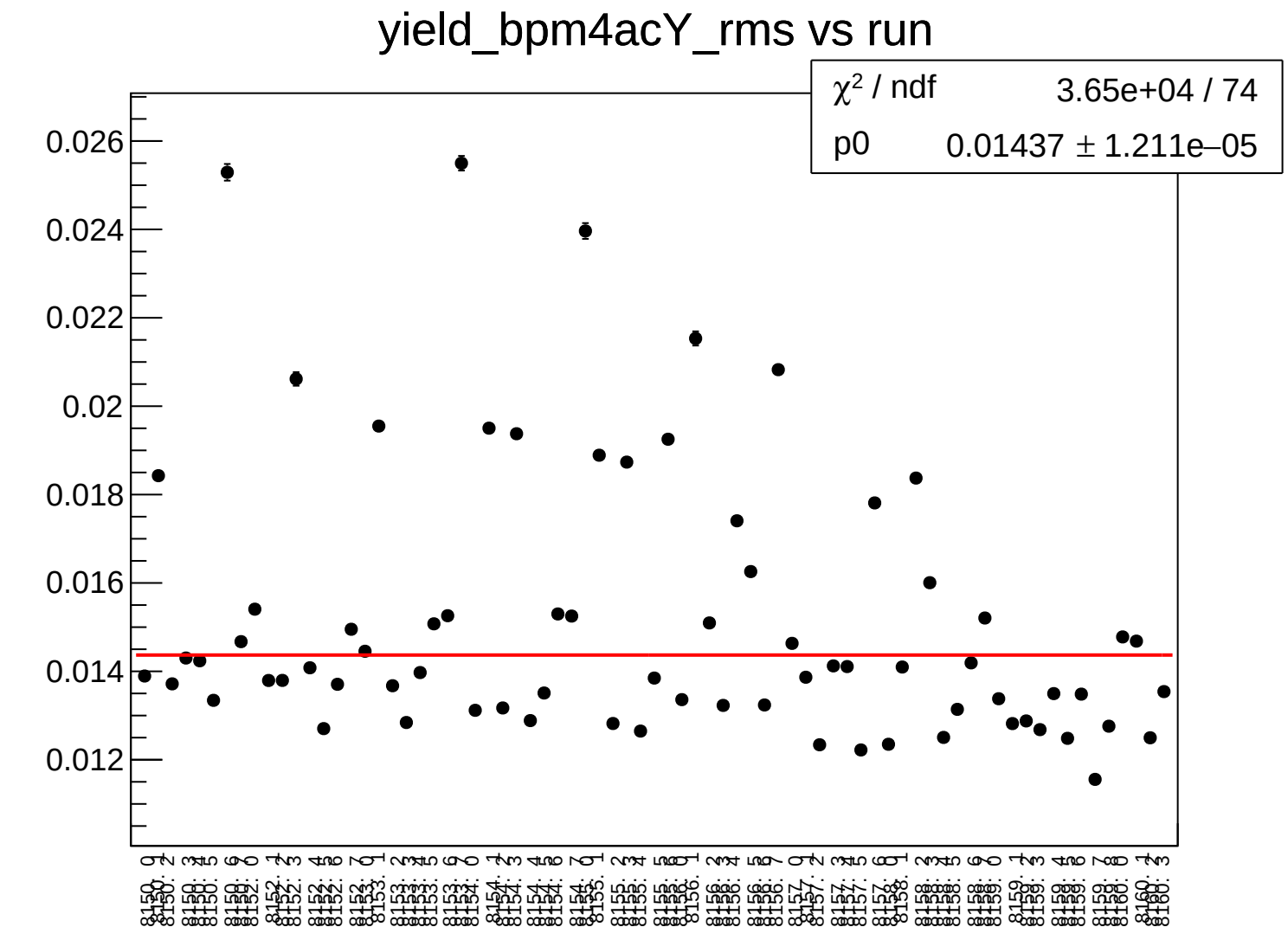

yield_bpm4acX_mean vs run
χ² / ndf 2.342e+04 / 74
p0 −0.9505 ± 5.631e−05
−0.93
−0.94
−0.95
−0.96
−0.97
pull
Entries 75
Mean −281.6
Std Dev 320.7
40
20
0
−20
−40

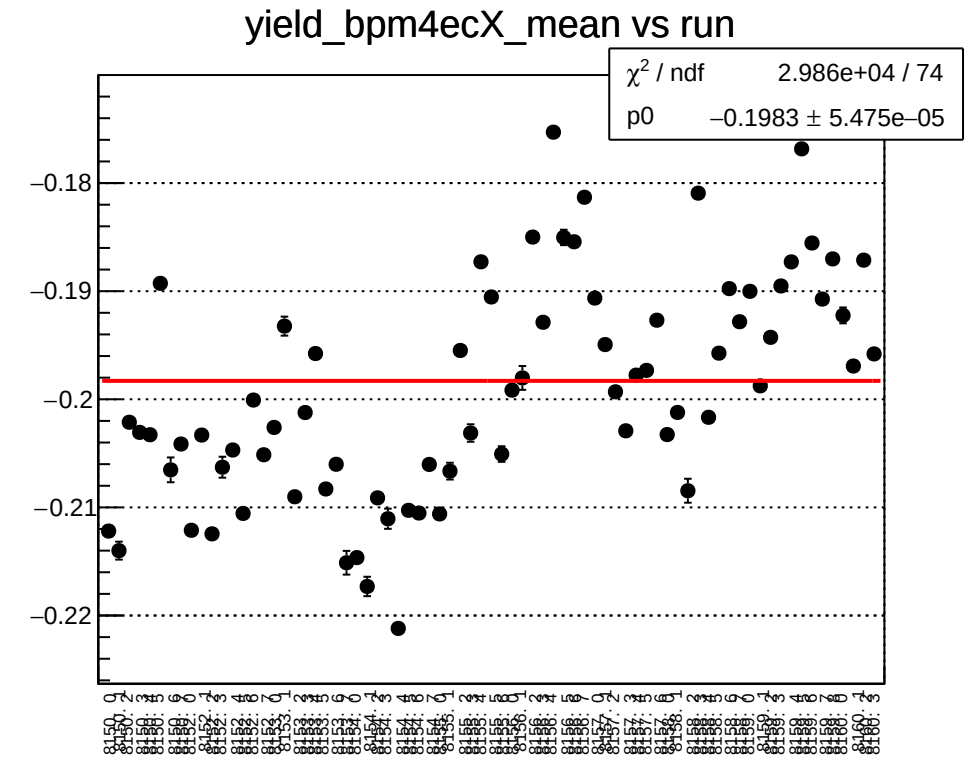

pull1D
Entries 75
Mean 0.08861
Std Dev 4.273
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

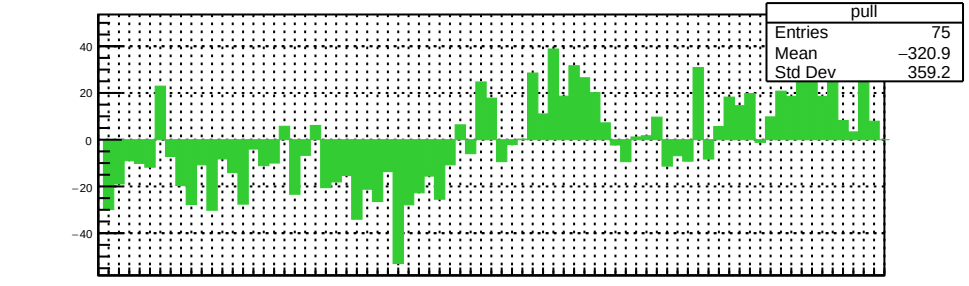

yield_bpm4acX_rms vs run
χ² / ndf 8.361e+04 / 74
p0 0.04645 ± 3.982e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

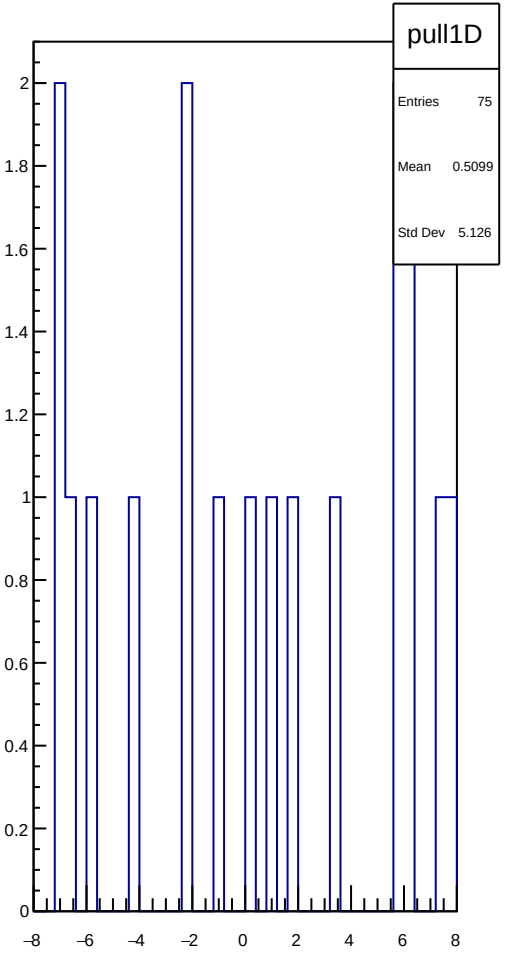

yield_bpm4acY_mean vs run
χ² / ndf 6.474e+04 / 74
p0 0.647 ± 1.712e−05
0.66
0.655
0.65
0.645
0.64
pull
Entries 75
Mean −976.8
Std Dev 1015
60
40
20
0
−20
−40
−60

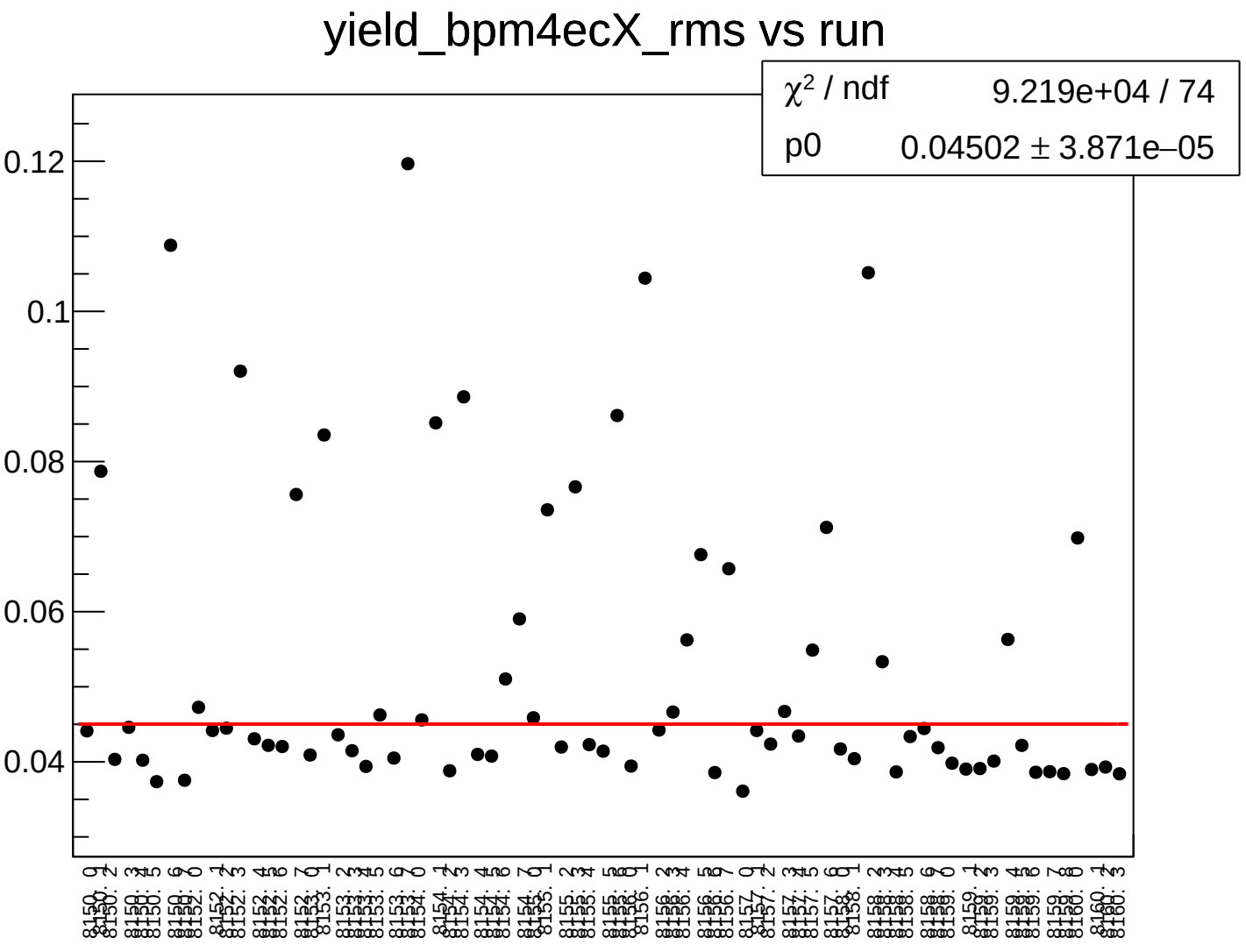

pull1D
Entries 75
Mean −0.4368
Std Dev 4.148
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

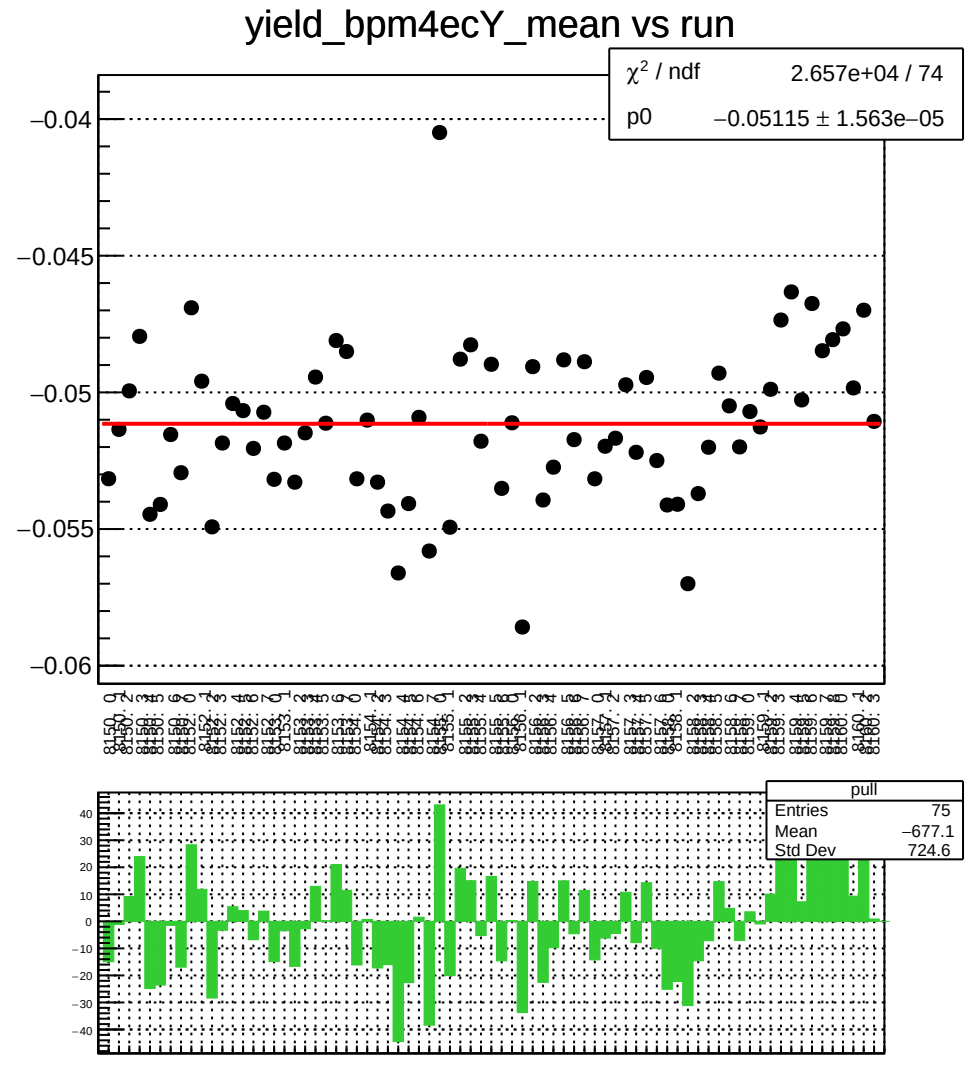

yield_bpm4acY_rms vs run
χ² / ndf 3.65e+04 / 74
p0 0.01437 ± 1.211e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

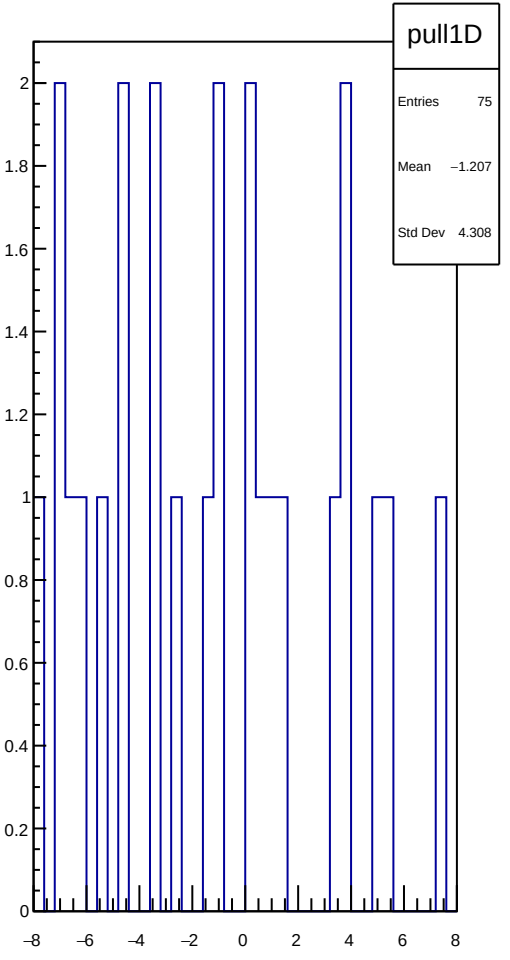

yield_bpm4ecX_mean vs run
χ² / ndf 2.986e+04 / 74
p0 −0.1983 ± 5.475e−05
−0.18
−0.19
−0.2
−0.21
−0.22

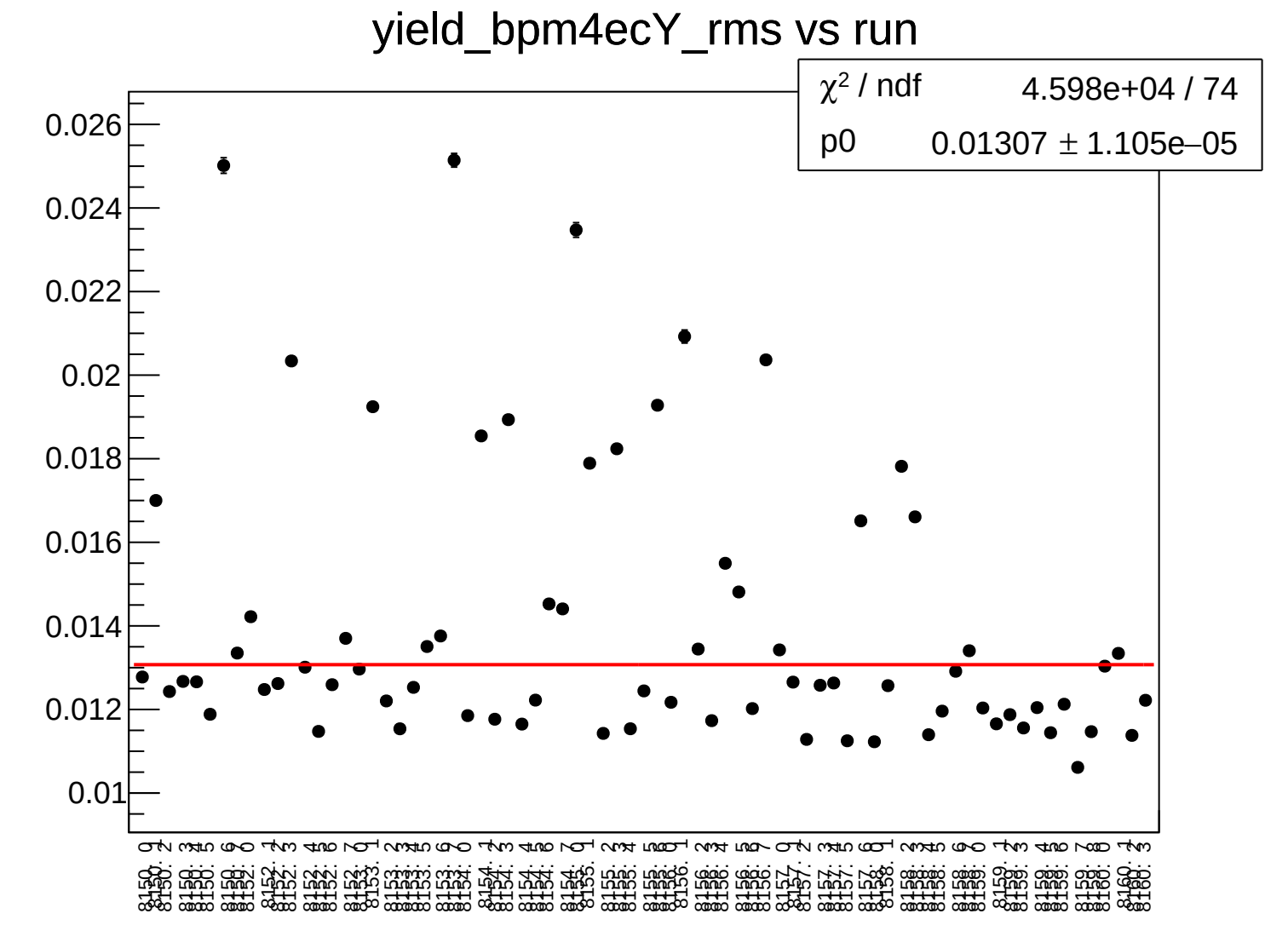

pull
Entries 75
Mean −320.9
Std Dev 359.2
40
20
0
−20
−40

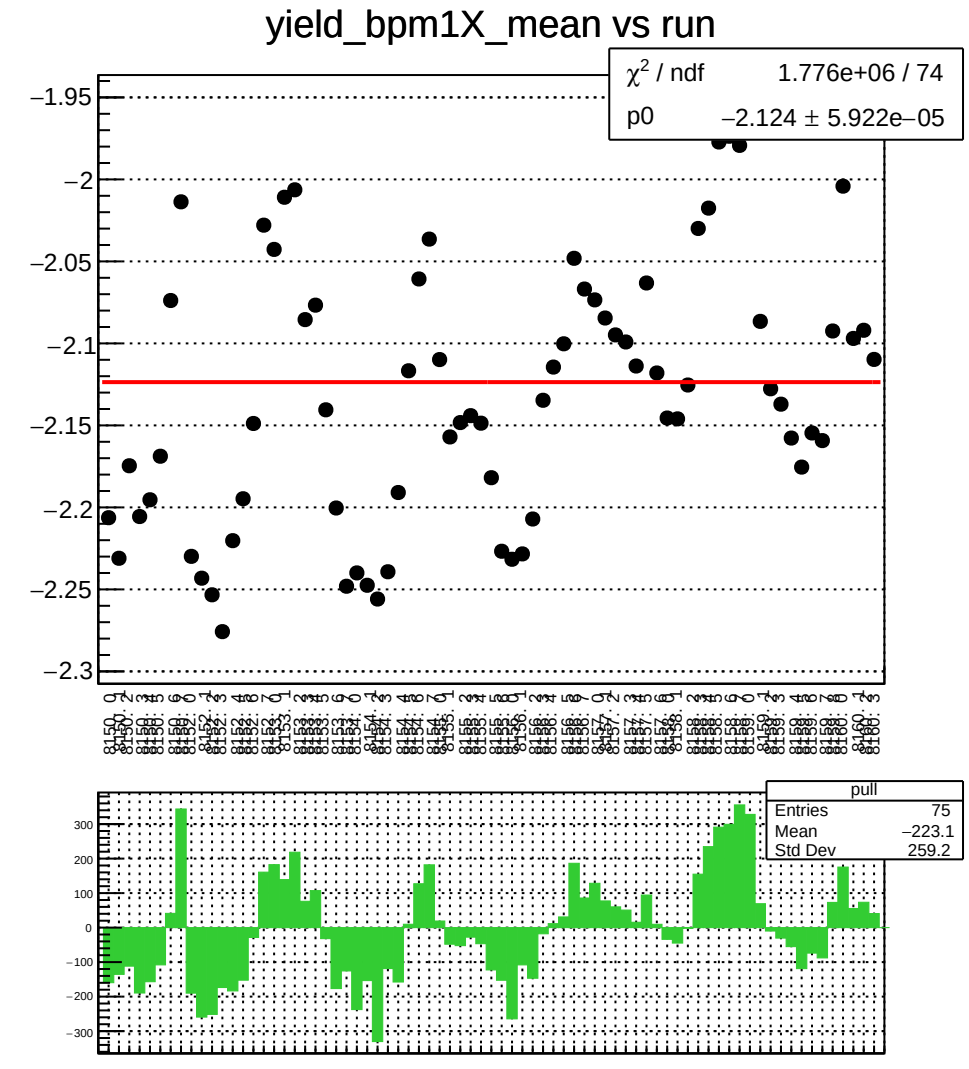

pull1D
Entries 75
Mean 0.5099
Std Dev 5.126
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

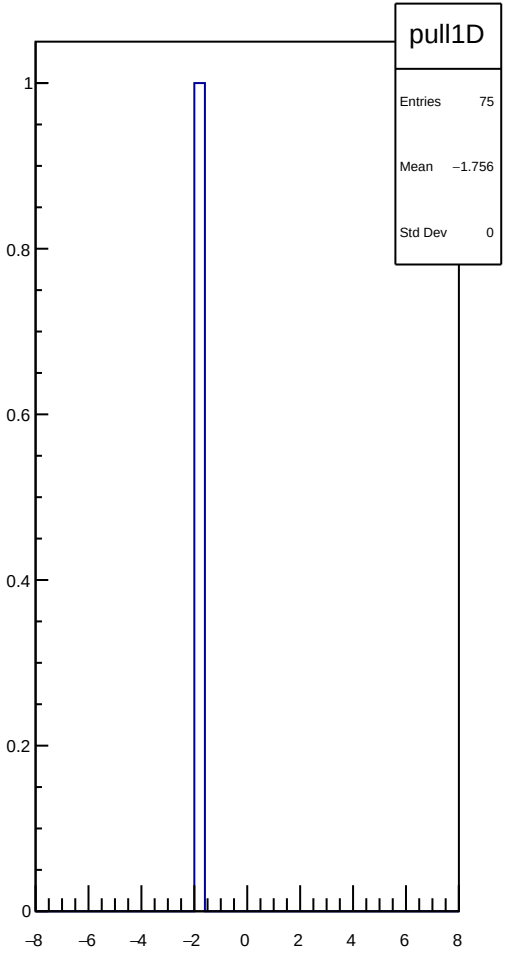

yield_bpm4ecX_rms vs run
χ² / ndf 9.219e+04 / 74
p0 0.04502 ± 3.871e−05
0.12
0.1
0.08
0.06
0.04

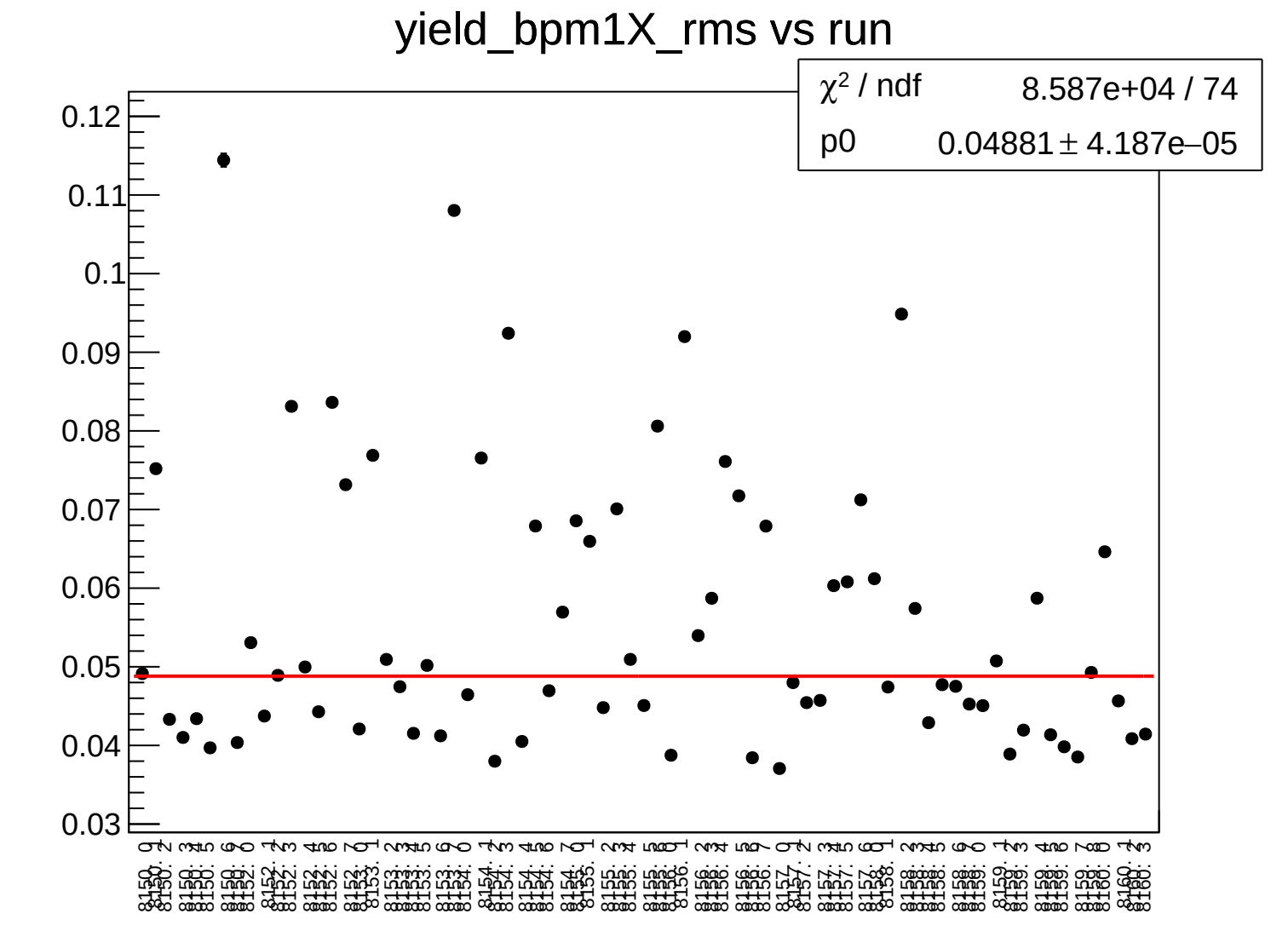

yield_bpm4ecY_mean vs run
χ² / ndf 2.657e+04 / 74
p0 −0.05115 ± 1.563e−05
−0.04
−0.045
−0.05
−0.055
−0.06
pull
Entries 75
Mean −677.1
Std Dev 724.6
40
30
20
10
0
−10
−20
−30
−40

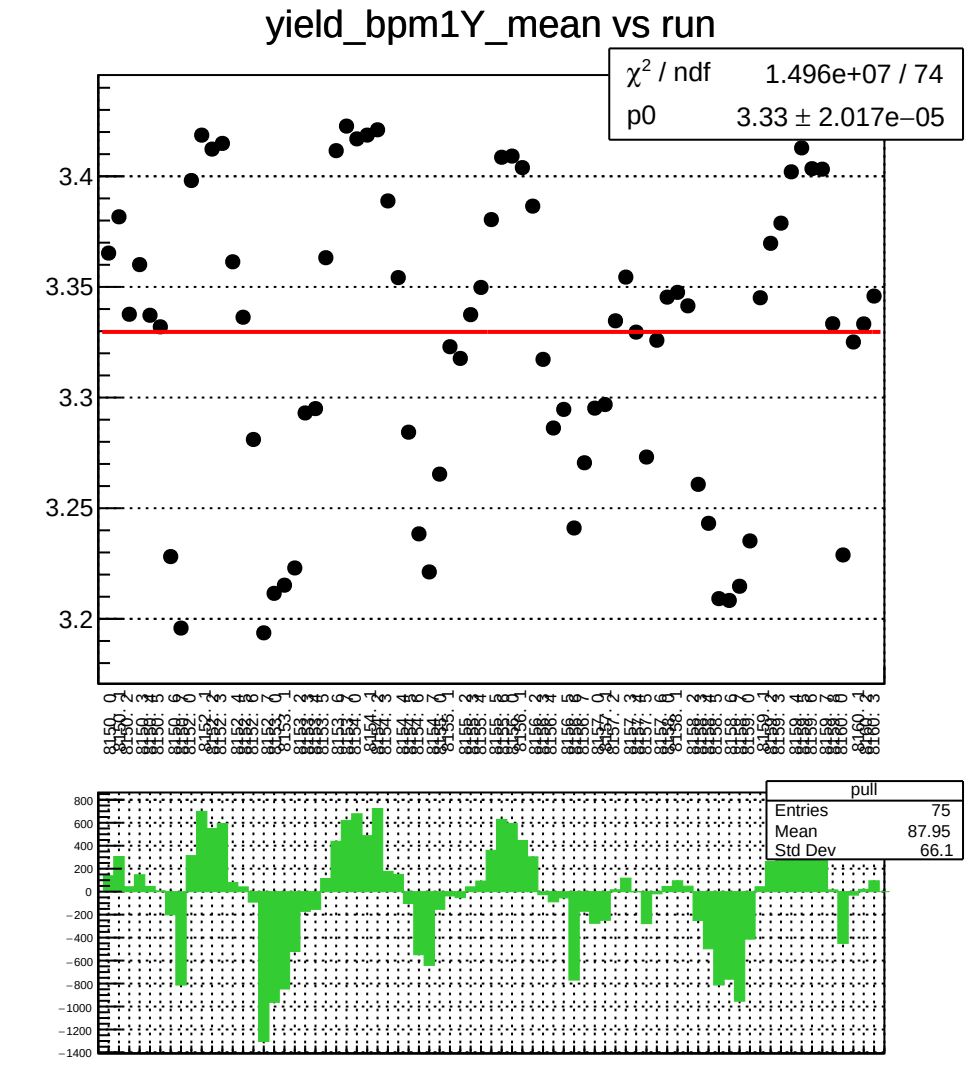

pull1D
Entries 75
Mean −1.207
Std Dev 4.308
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

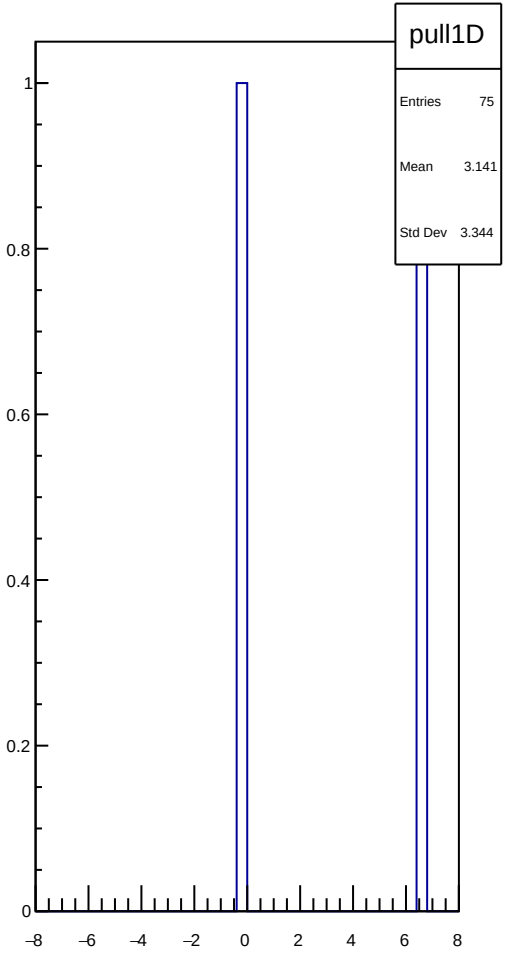

yield_bpm4ecY_rms vs run
χ² / ndf 4.598e+04 / 74
p0 0.01307 ± 1.105e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

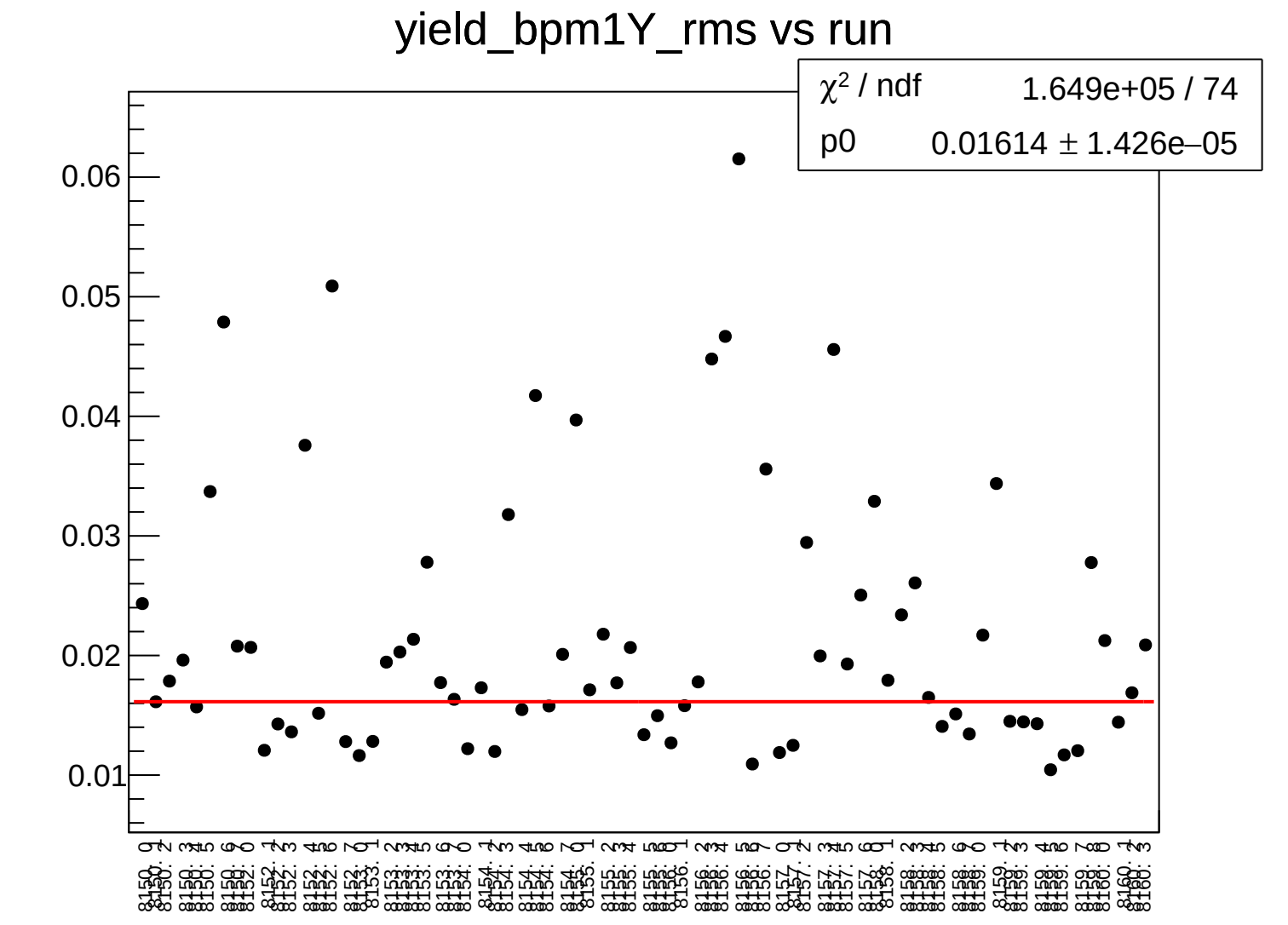

yield_bpm1X_mean vs run
χ² / ndf 1.776e+06 / 74
p0 −2.124 ± 5.922e−05
−1.95
−2
−2.05
−2.1
−2.15
−2.2
−2.25
−2.3
pull
Entries 75
Mean −223.1
Std Dev 259.2
300
200
100
0
−100
−200
−300

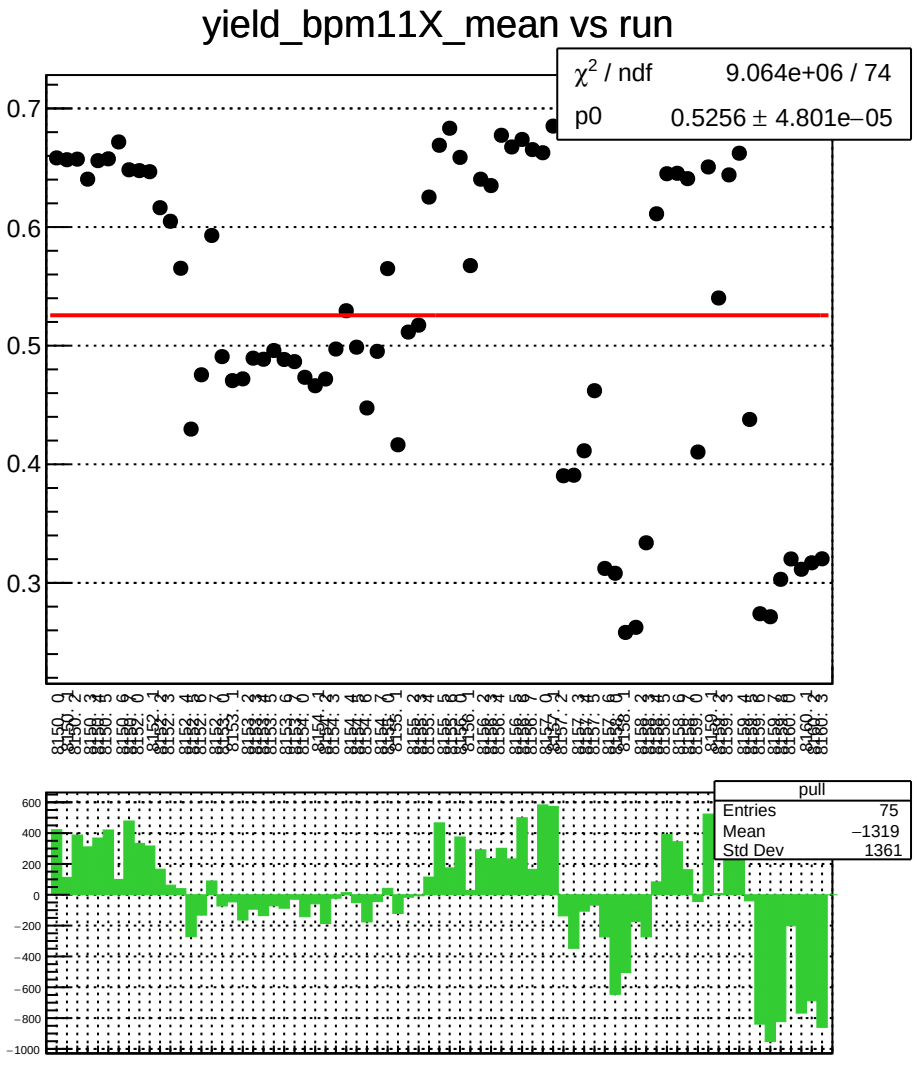

pull1D
Entries 75
Mean −1.756
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

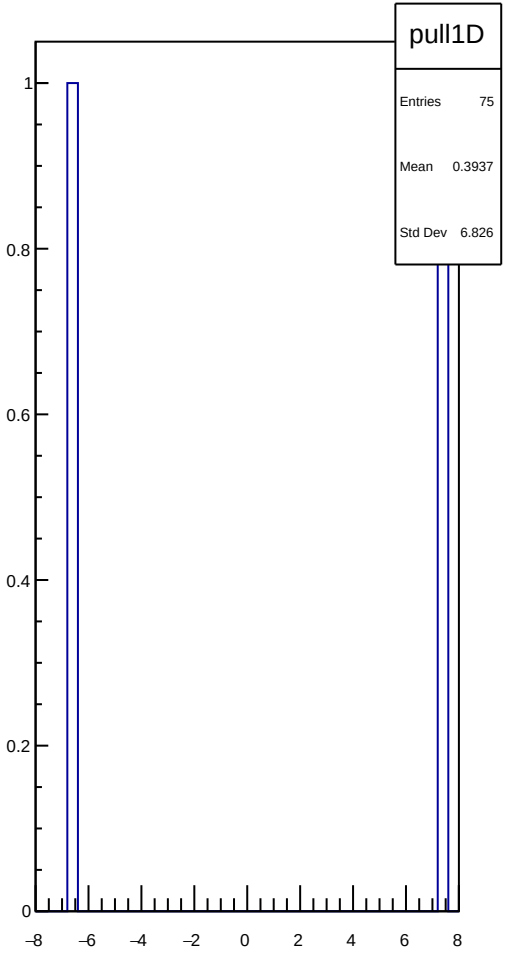

yield_bpm1X_rms vs run
χ² / ndf 8.587e+04 / 74
p0 0.04881 ± 4.187e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

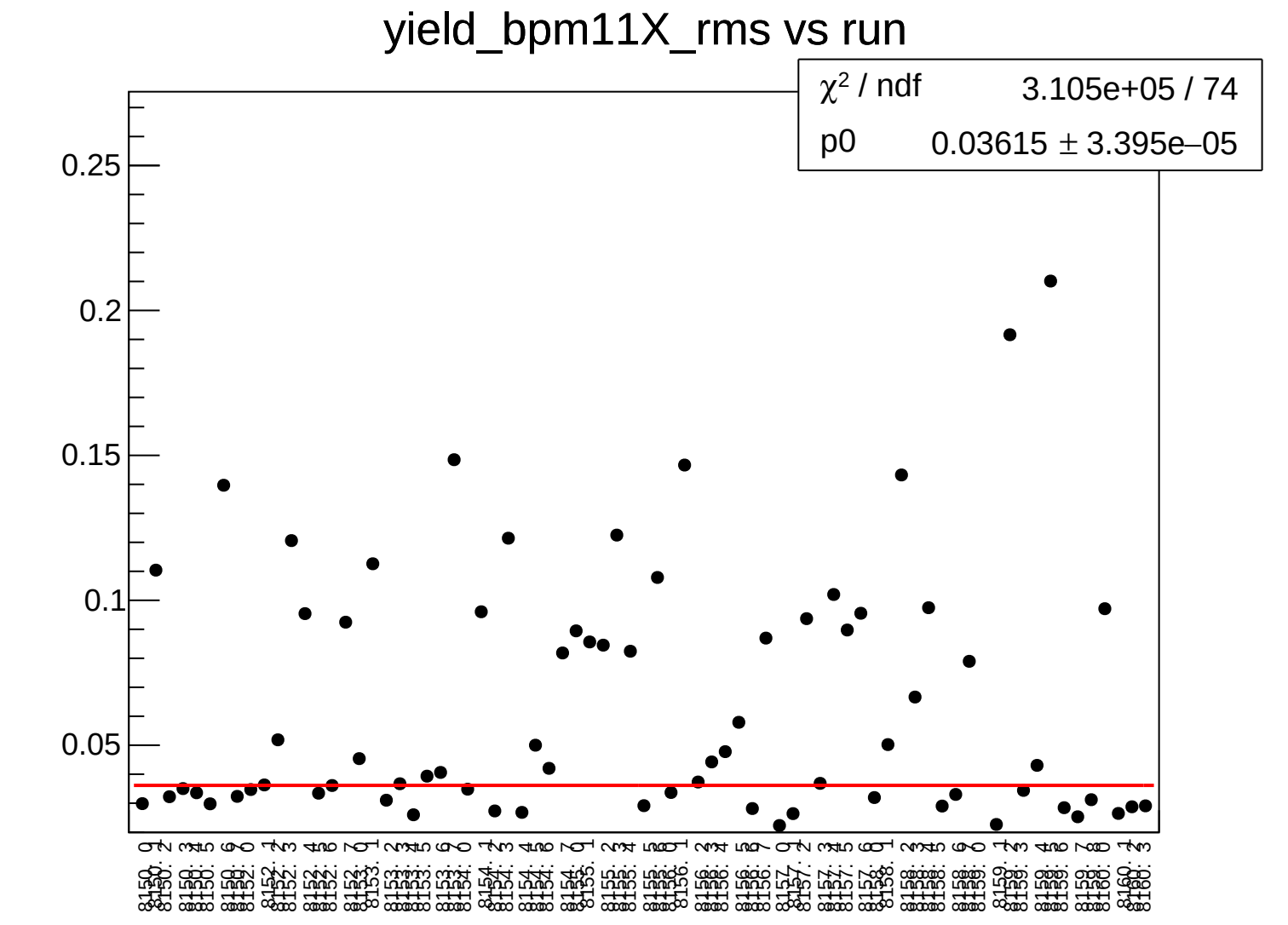

yield_bpm1Y_mean vs run
χ² / ndf 1.496e+07 / 74
p0 3.33 ± 2.017e−05
3.4
3.35
3.3
3.25
3.2
pull
Entries 75
Mean 87.95
Std Dev 66.1
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

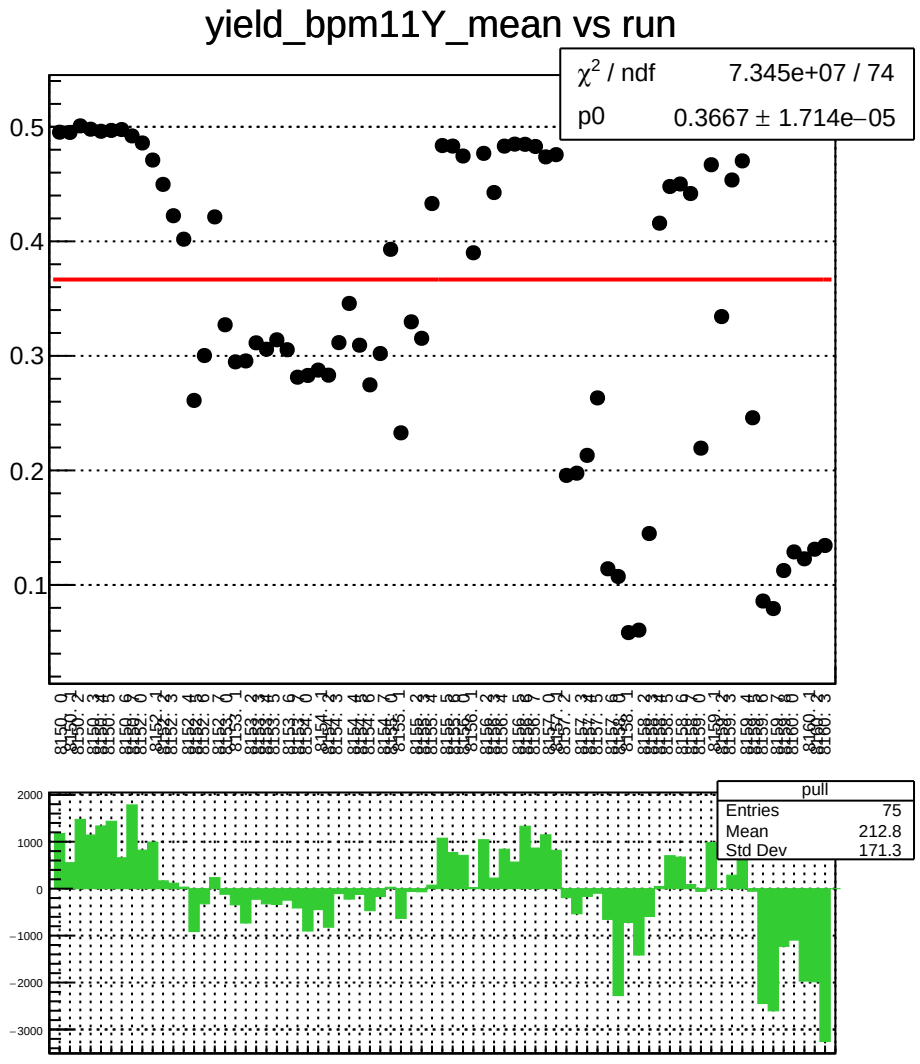

pull1D
Entries 75
Mean 3.141
Std Dev 3.344
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

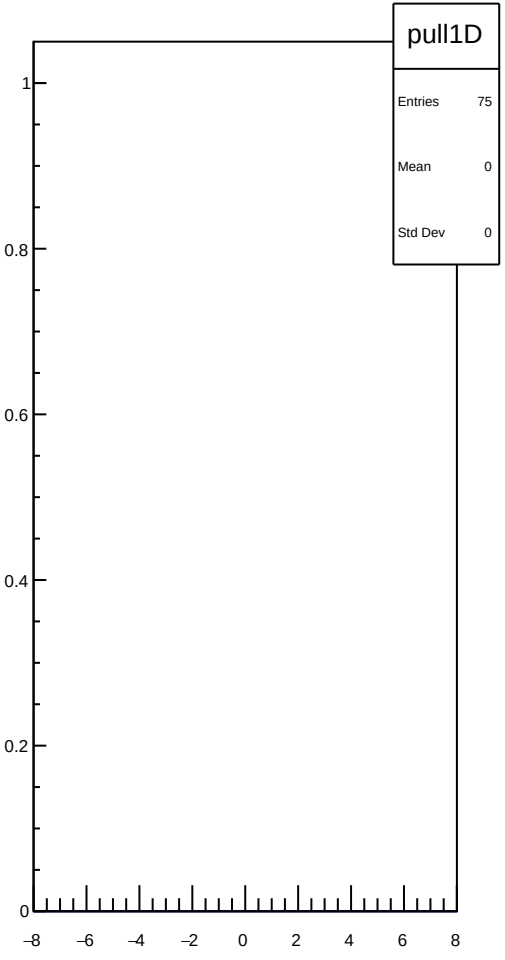

yield_bpm1Y_rms vs run
χ² / ndf 1.649e+05 / 74
p0 0.01614 ± 1.426e−05
0.06
0.05
0.04
0.03
0.02
0.01

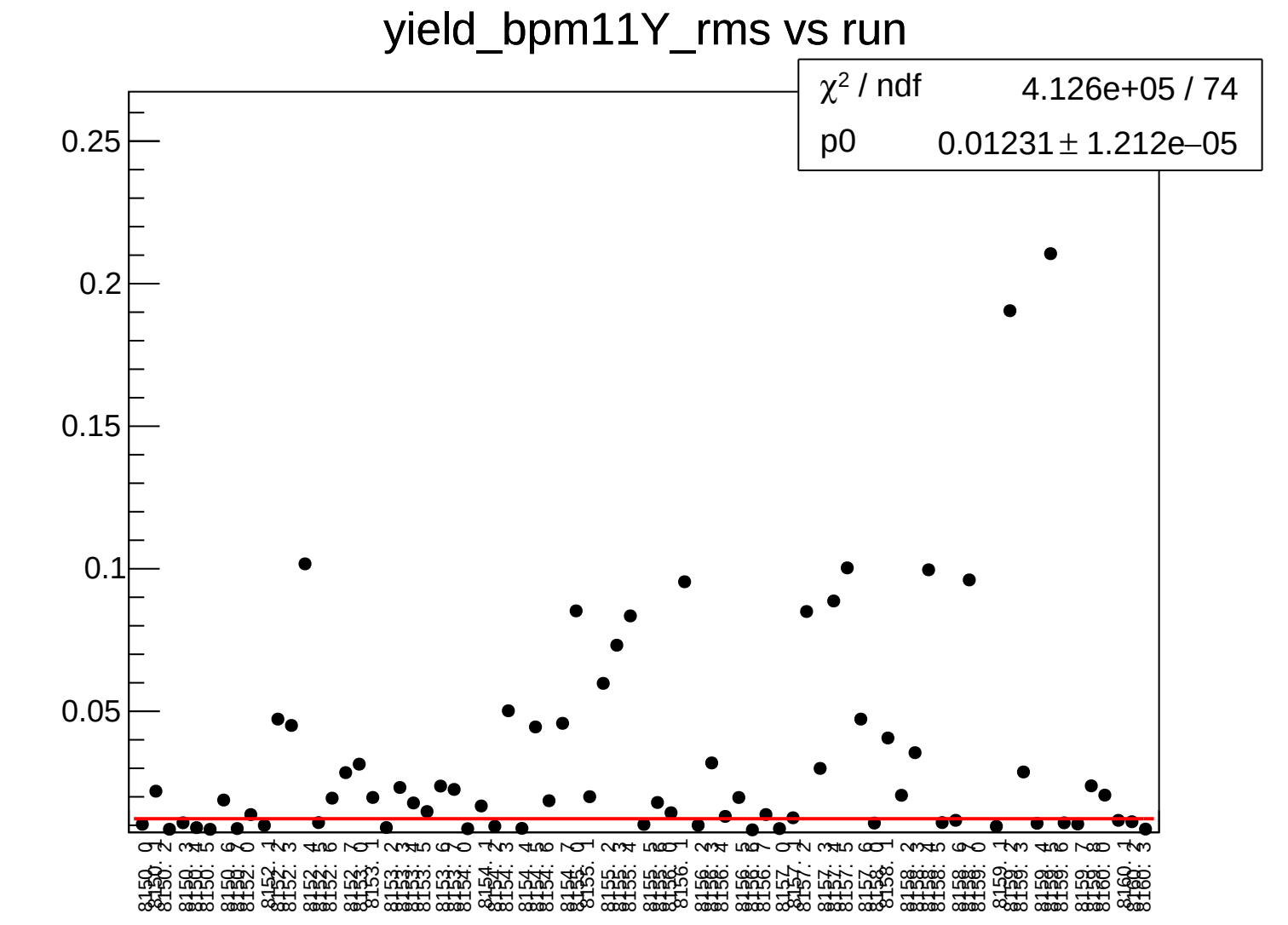

yield_bpm11X_mean vs run
χ² / ndf 9.064e+06 / 74
p0 0.5256 ± 4.801e−05
0.7
0.6
0.5
0.4
0.3
pull
Entries 75
Mean −1319
Std Dev 1361
600
400
200
0
−200
−400
−600
−800
−1000

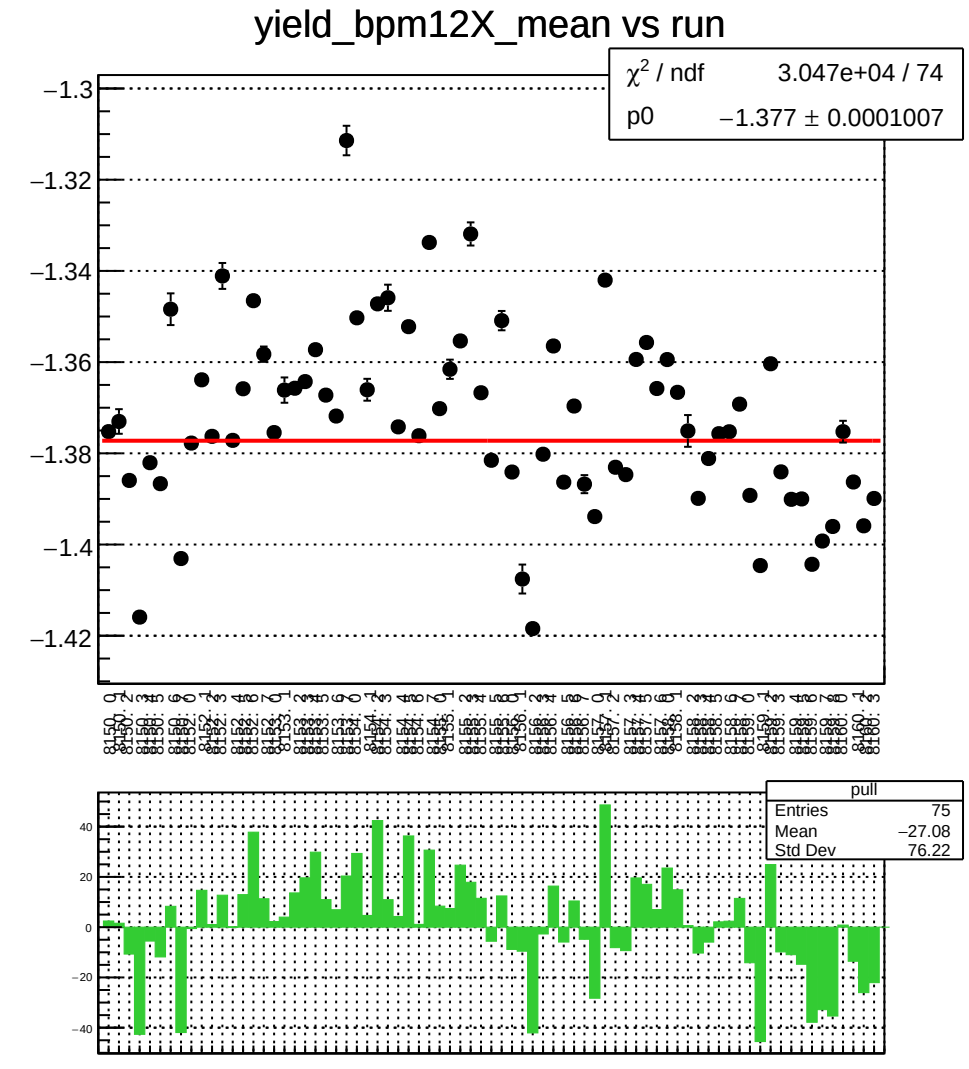

pull1D
Entries 75
Mean 0.3937
Std Dev 6.826
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

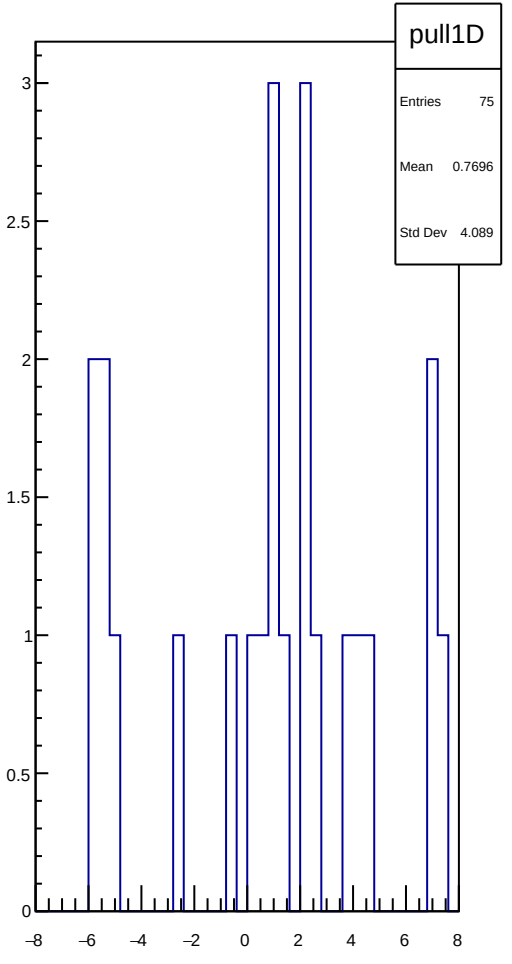

yield_bpm11X_rms vs run
χ² / ndf 3.105e+05 / 74
p0 0.03615 ± 3.395e–05
0.25
0.2
0.15
0.1
0.05

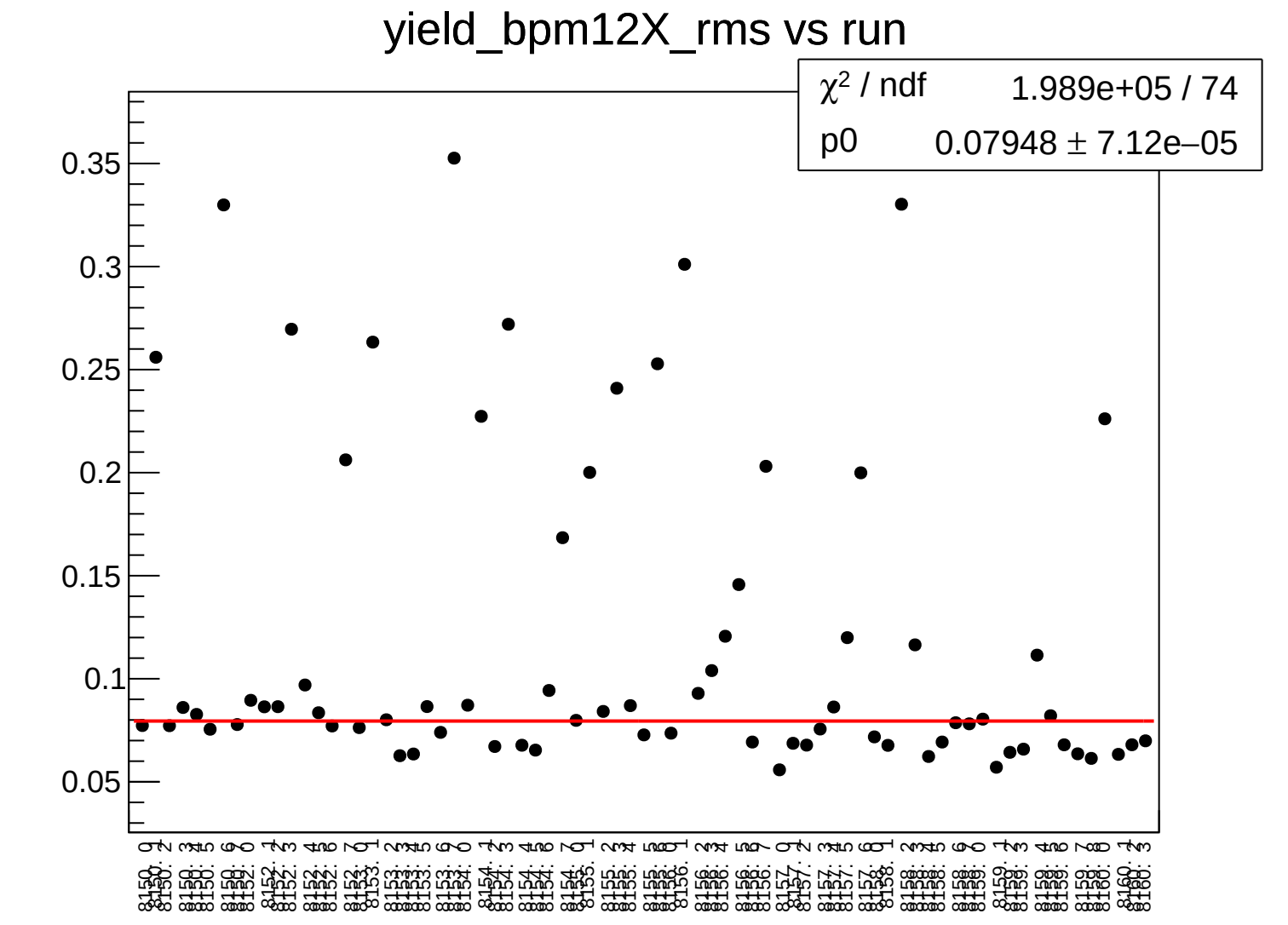

yield_bpm11Y_mean vs run
χ² / ndf 7.345e+07 / 74
p0 0.3667 ± 1.714e−05
pull
Entries 75
Mean 212.8
Std Dev 171.3

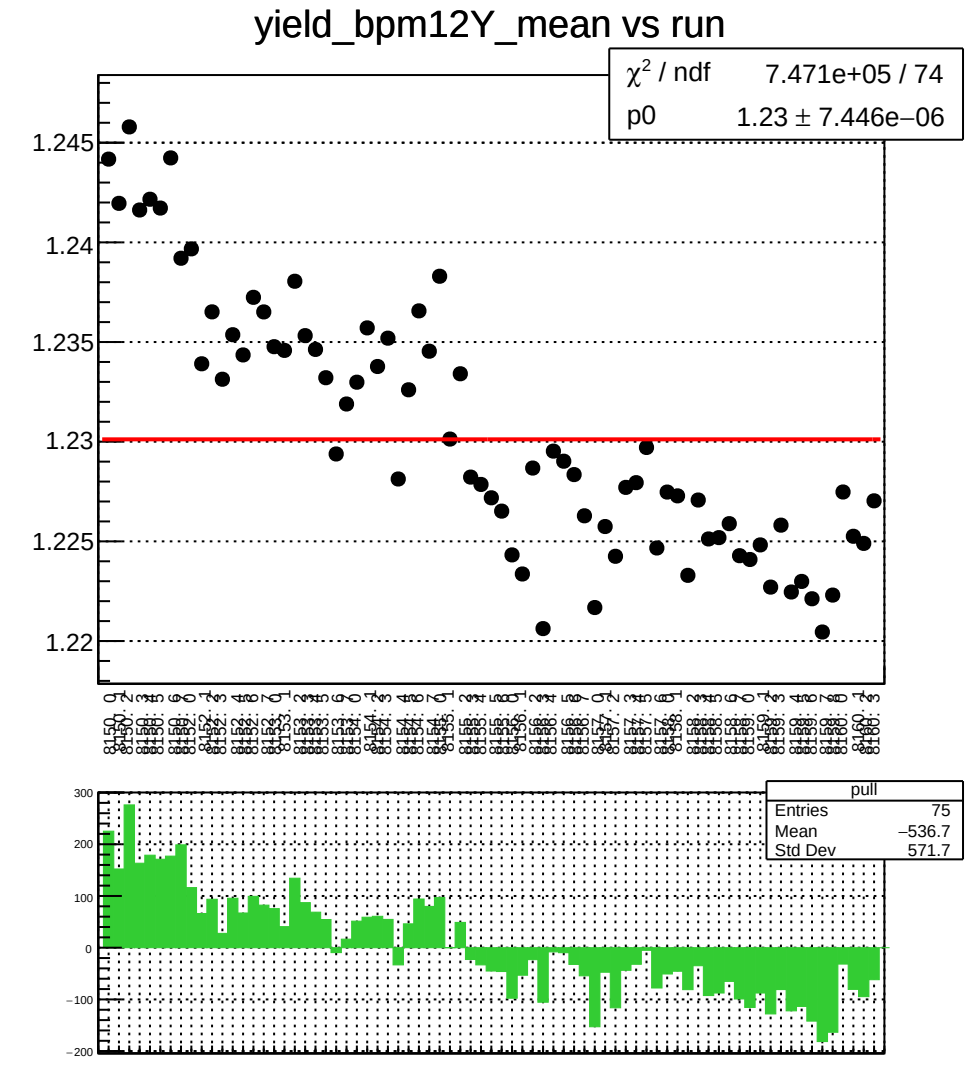

pull1D
Entries 75
Mean 0
Std Dev 0

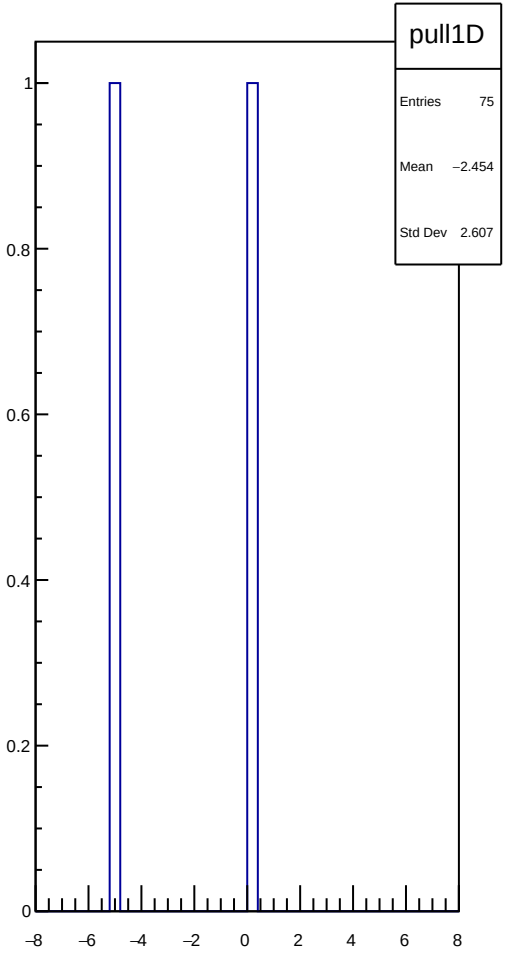

yield_bpm11Y_rms vs run
χ² / ndf 4.126e+05 / 74
p0 0.01231 ± 1.212e–05
0.25
0.2
0.15
0.1
0.05

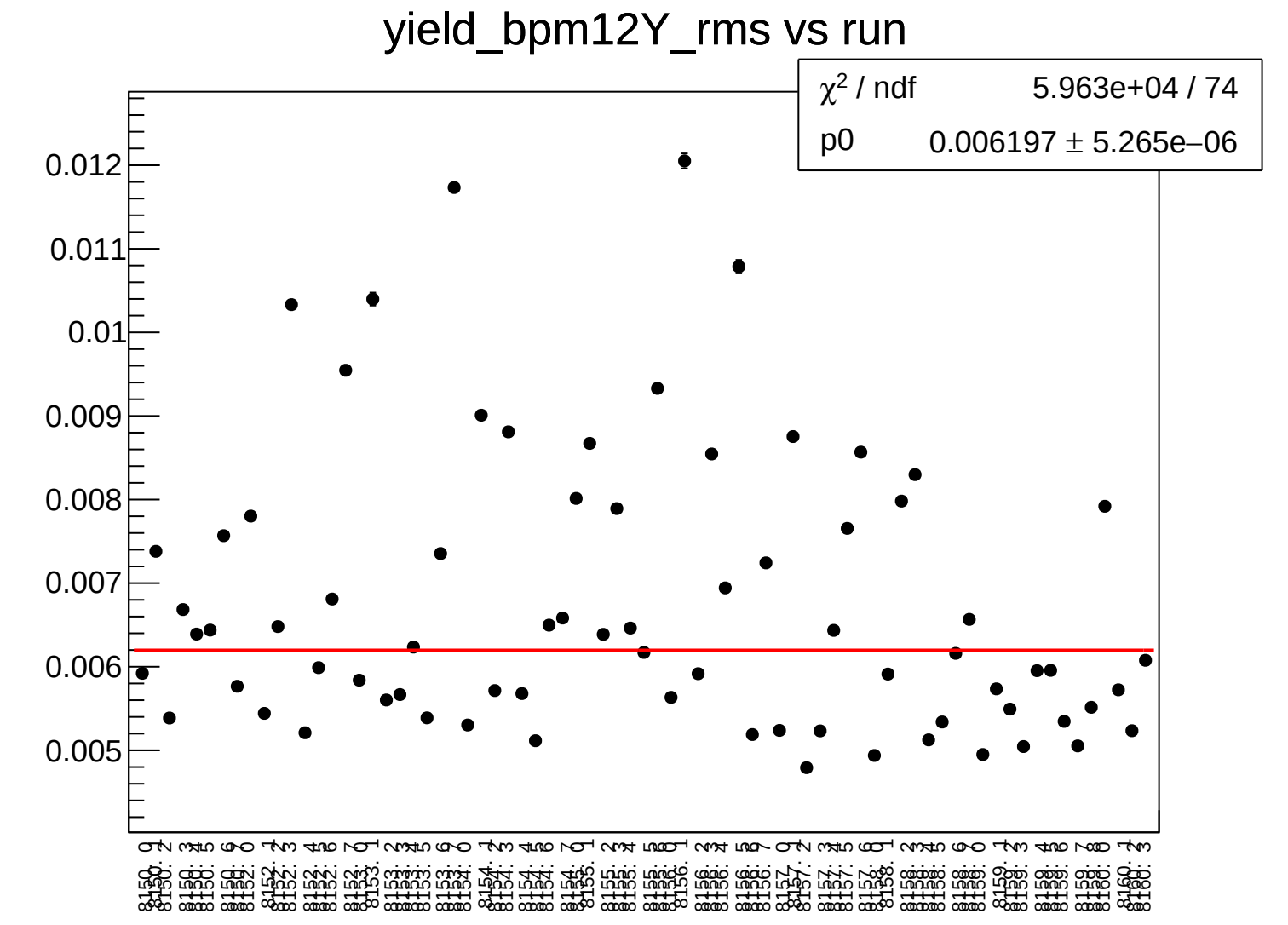

yield_bpm12X_mean vs run
χ² / ndf 3.047e+04 / 74
p0 −1.377 ± 0.0001007
−1.3
−1.32
−1.34
−1.36
−1.38
−1.4
−1.42
pull
Entries 75
Mean −27.08
Std Dev 76.22
40
20
0
−20
−40

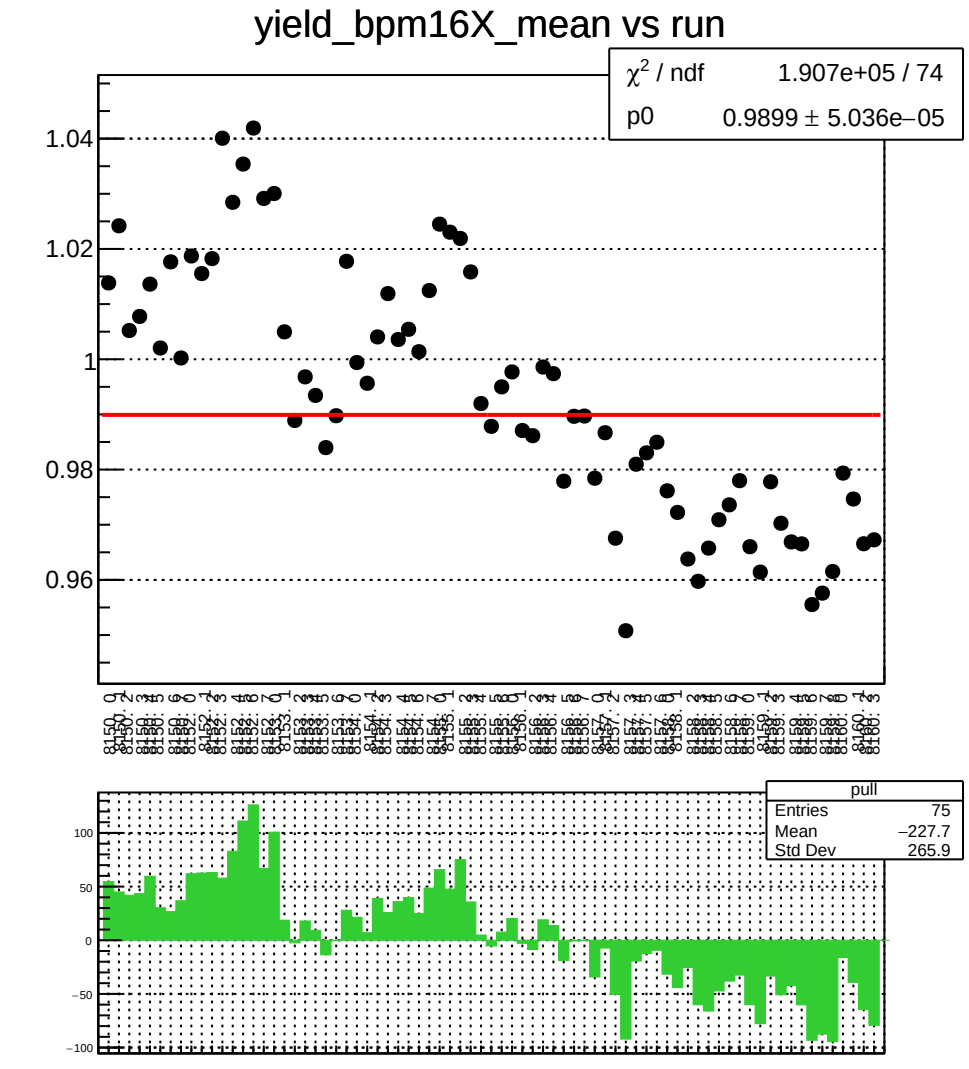

pull1D
Entries 75
Mean 0.7696
Std Dev 4.089
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

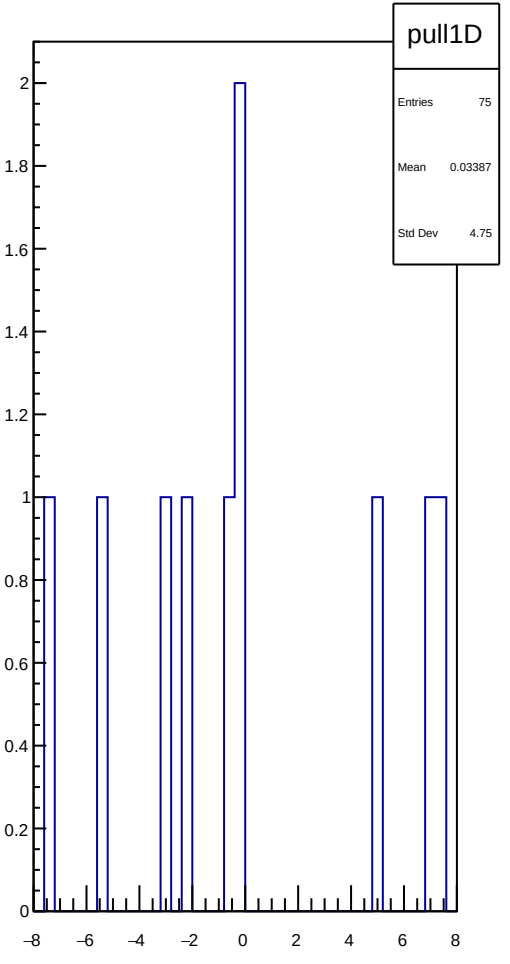

yield_bpm12X_rms vs run
χ² / ndf 1.989e+05 / 74
p0 0.07948 ± 7.12e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

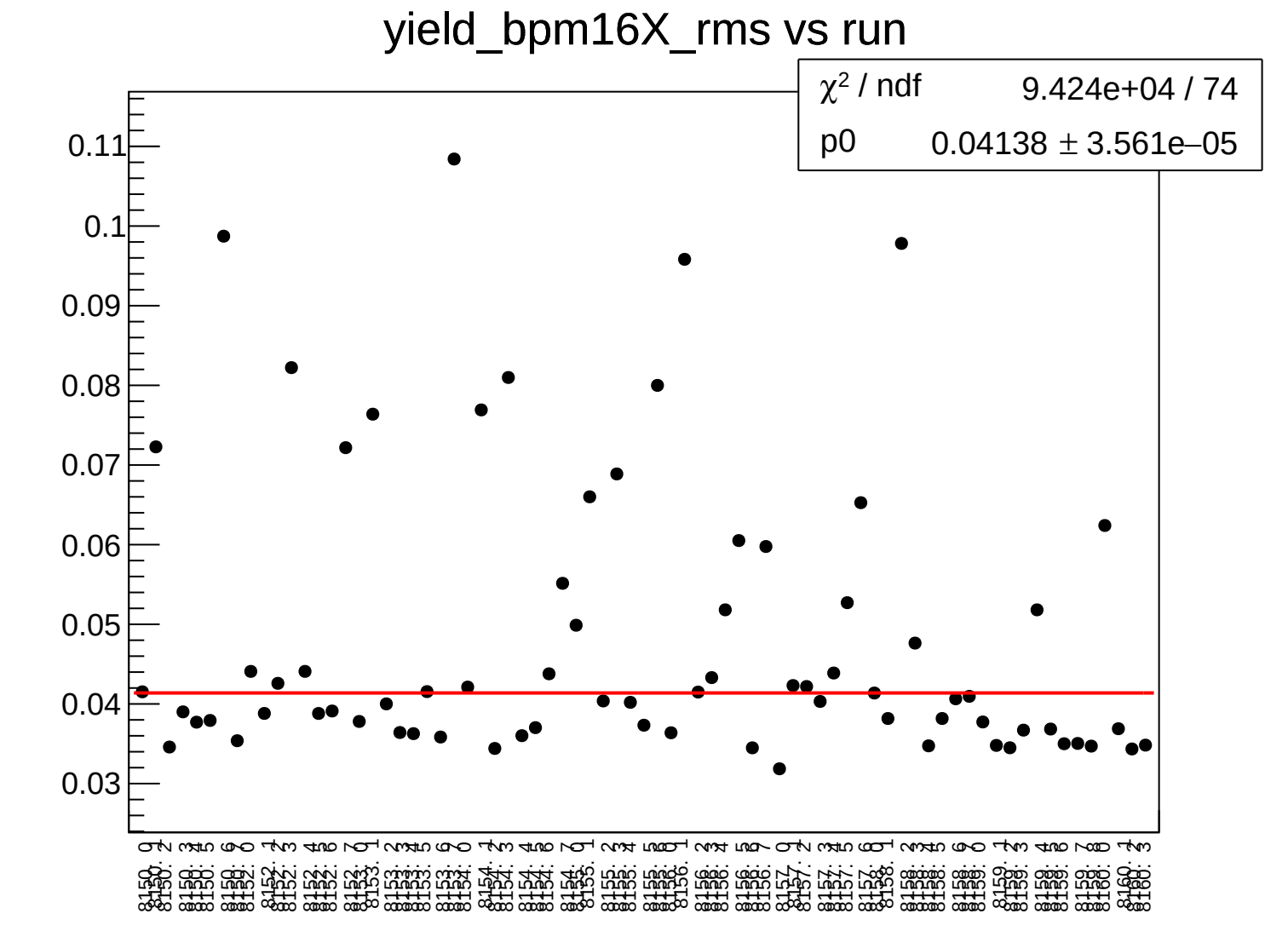

yield_bpm12Y_mean vs run
χ² / ndf 7.471e+05 / 74
p0 1.23 ± 7.446e−06
1.245
1.24
1.235
1.23
1.225
1.22
pull
Entries 75
Mean −536.7
Std Dev 571.7
300
200
100
0
−100
−200

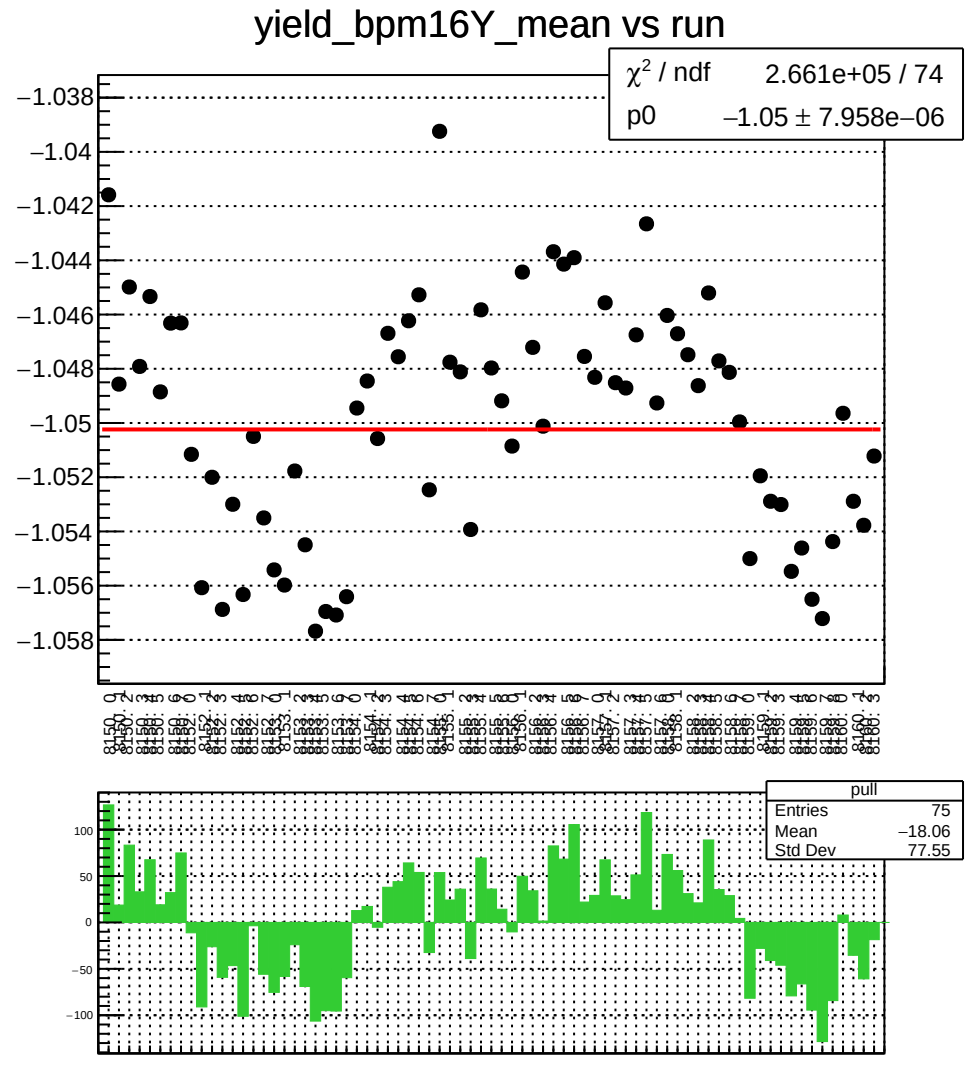

pull1D
Entries 75
Mean −2.454
Std Dev 2.607
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

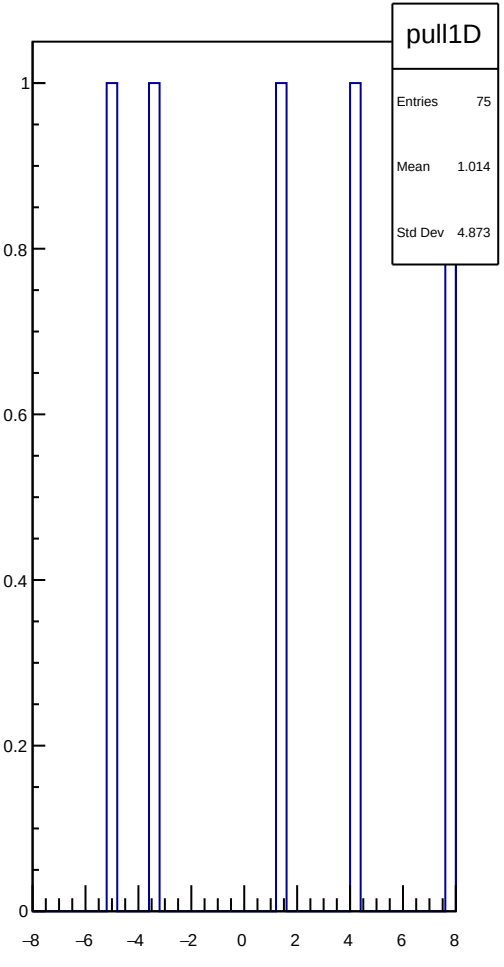

yield_bpm12Y_rms vs run
χ² / ndf 5.963e+04 / 74
p0 0.006197 ± 5.265e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

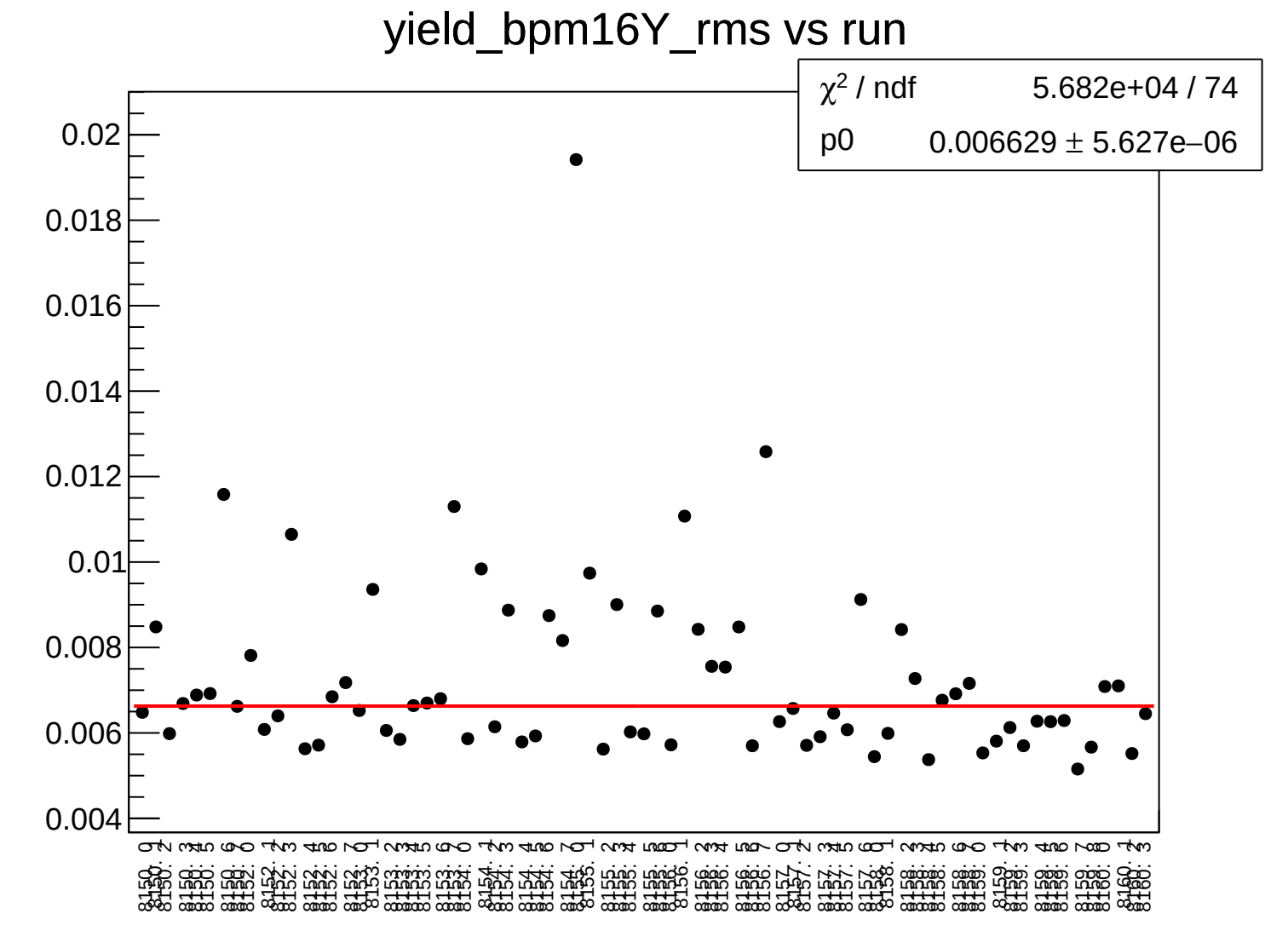

yield_bpm16X_mean vs run
χ² / ndf 1.907e+05 / 74
p0 0.9899 ± 5.036e−05
1.04
1.02
1
0.98
0.96
pull
Entries 75
Mean −227.7
Std Dev 265.9
100
50
0
−50
−100

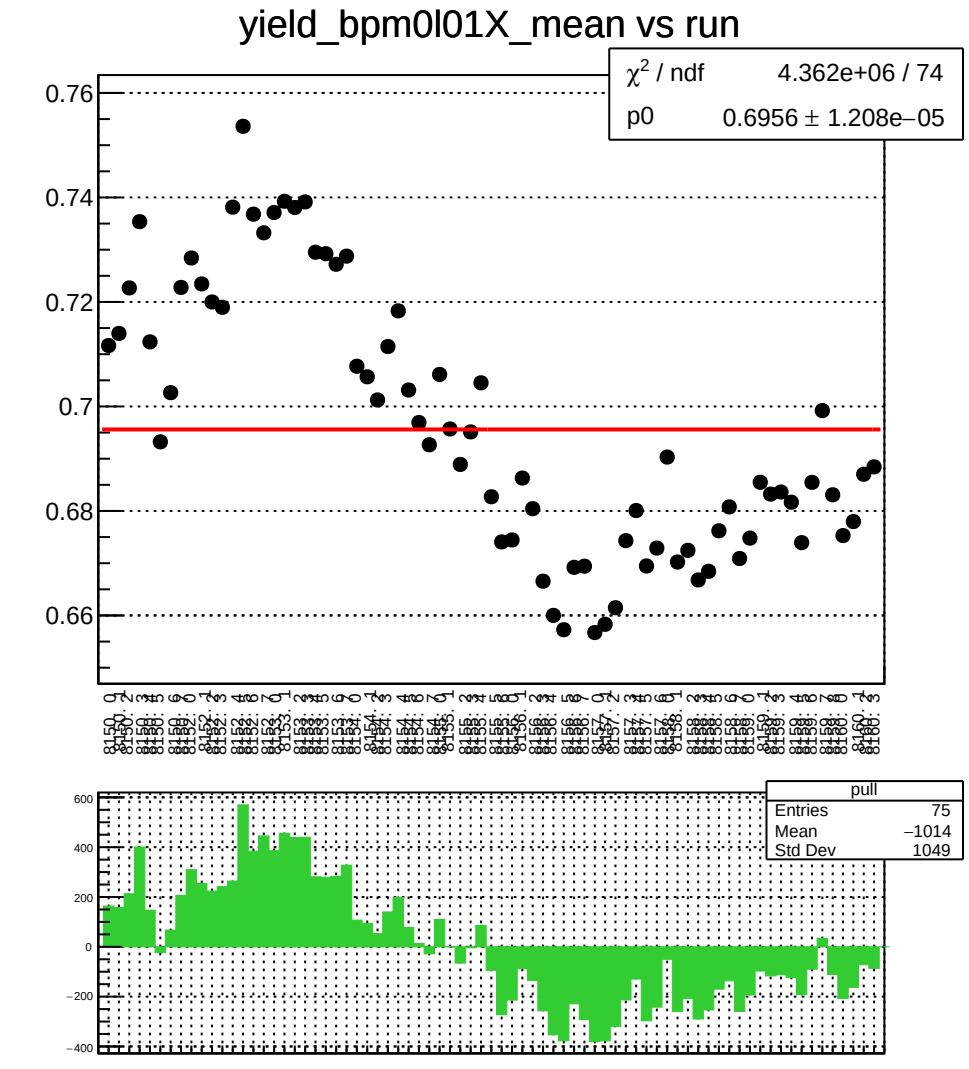

pull1D
Entries 75
Mean 0.03387
Std Dev 4.75
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

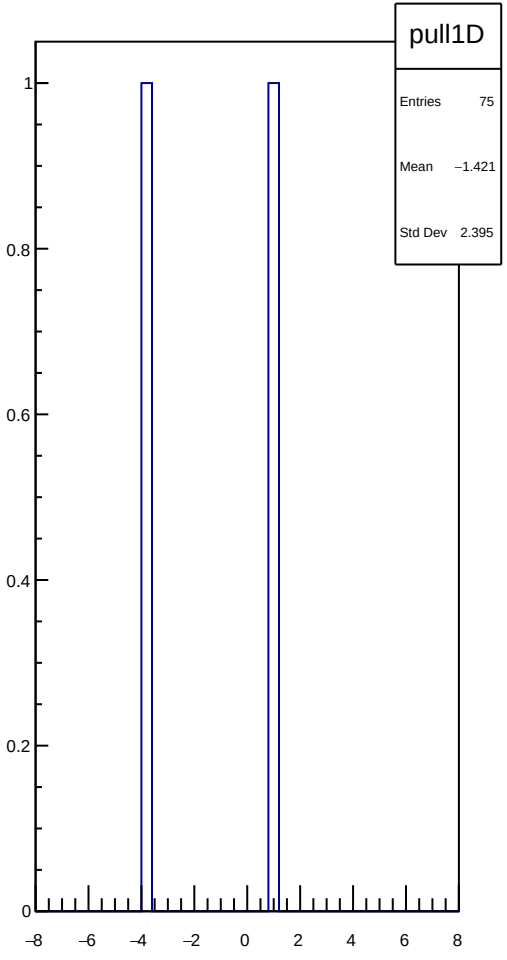

yield_bpm16X_rms vs run
χ² / ndf 9.424e+04 / 74
p0 0.04138 ± 3.561e–05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

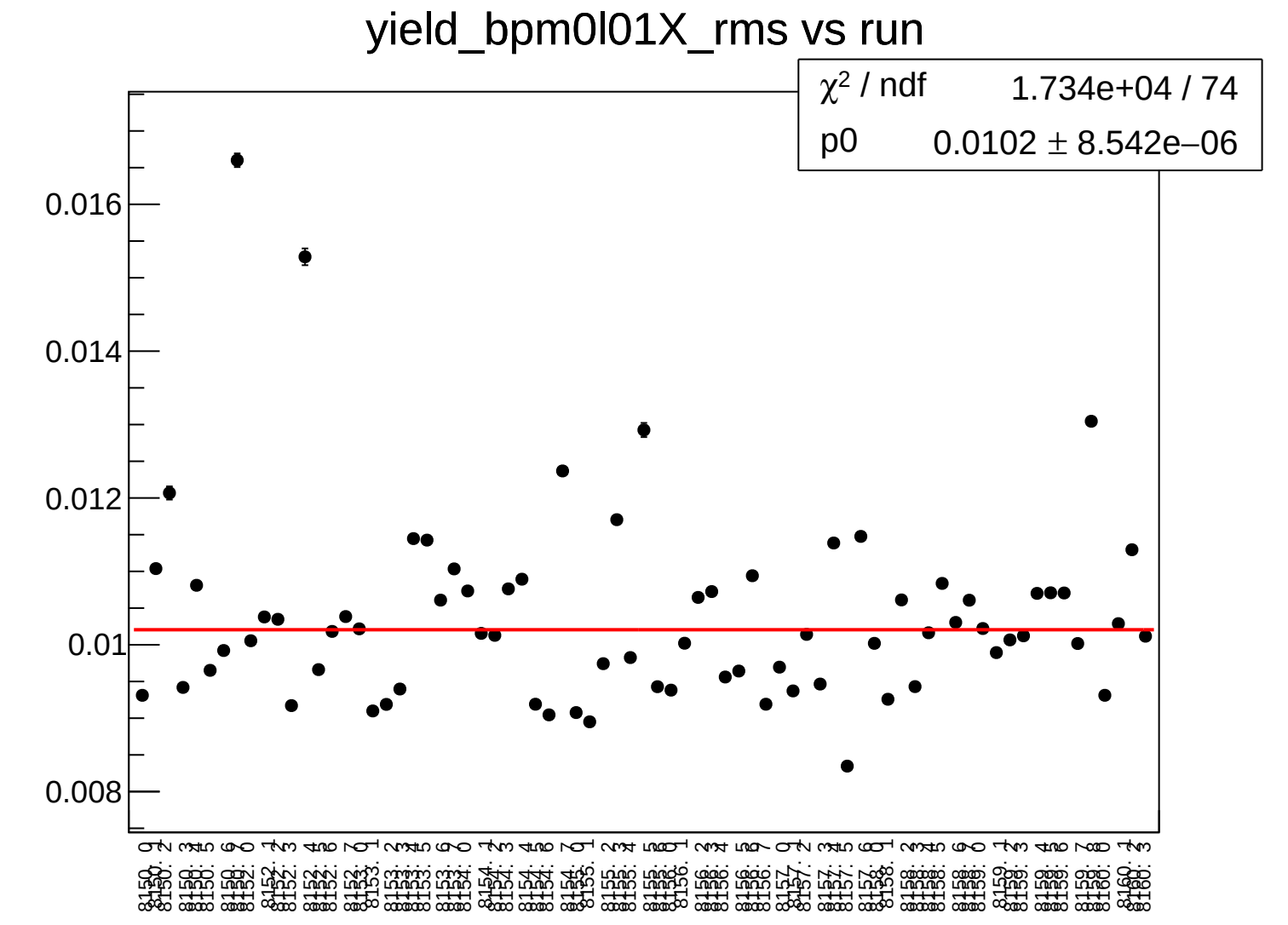

yield_bpm16Y_mean vs run
χ² / ndf 2.661e+05 / 74
p0 −1.05 ± 7.958e−06
−1.038
−1.04
−1.042
−1.044
−1.046
−1.048
−1.05
−1.052
−1.054
−1.056
−1.058
pull
Entries 75
Mean −18.06
Std Dev 77.55
100
50
0
−50
−100

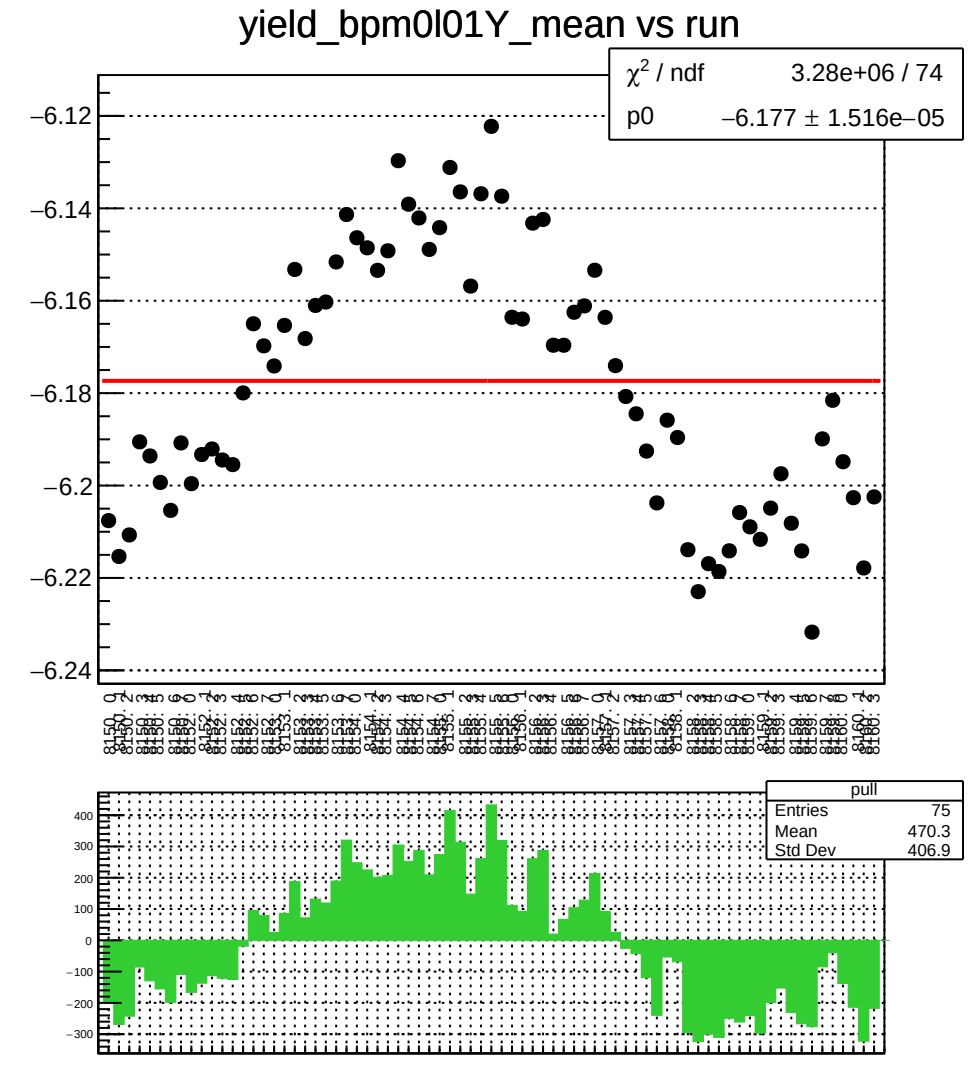

pull1D
Entries 75
Mean 1.014
Std Dev 4.873
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

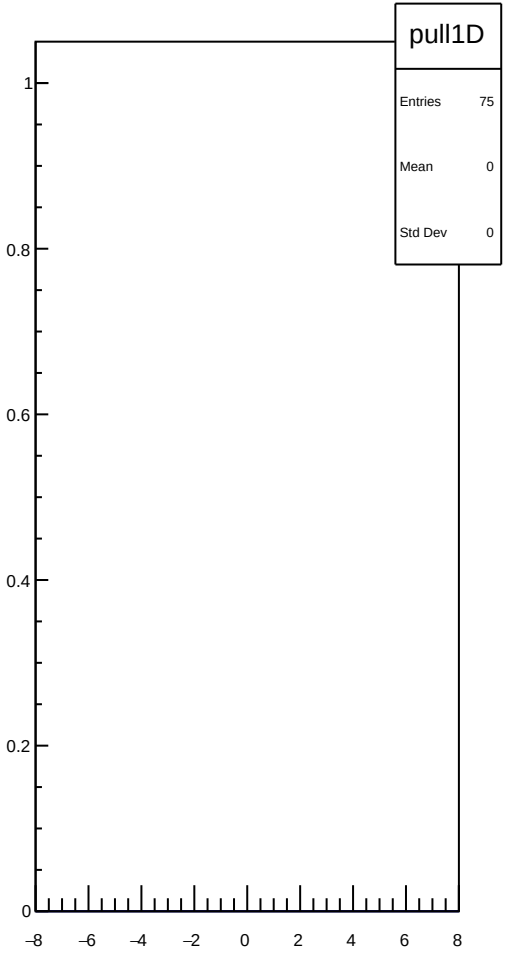

yield_bpm16Y_rms vs run
χ^2 / ndf 5.682e+04 / 74
p0 0.006629 ± 5.627e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

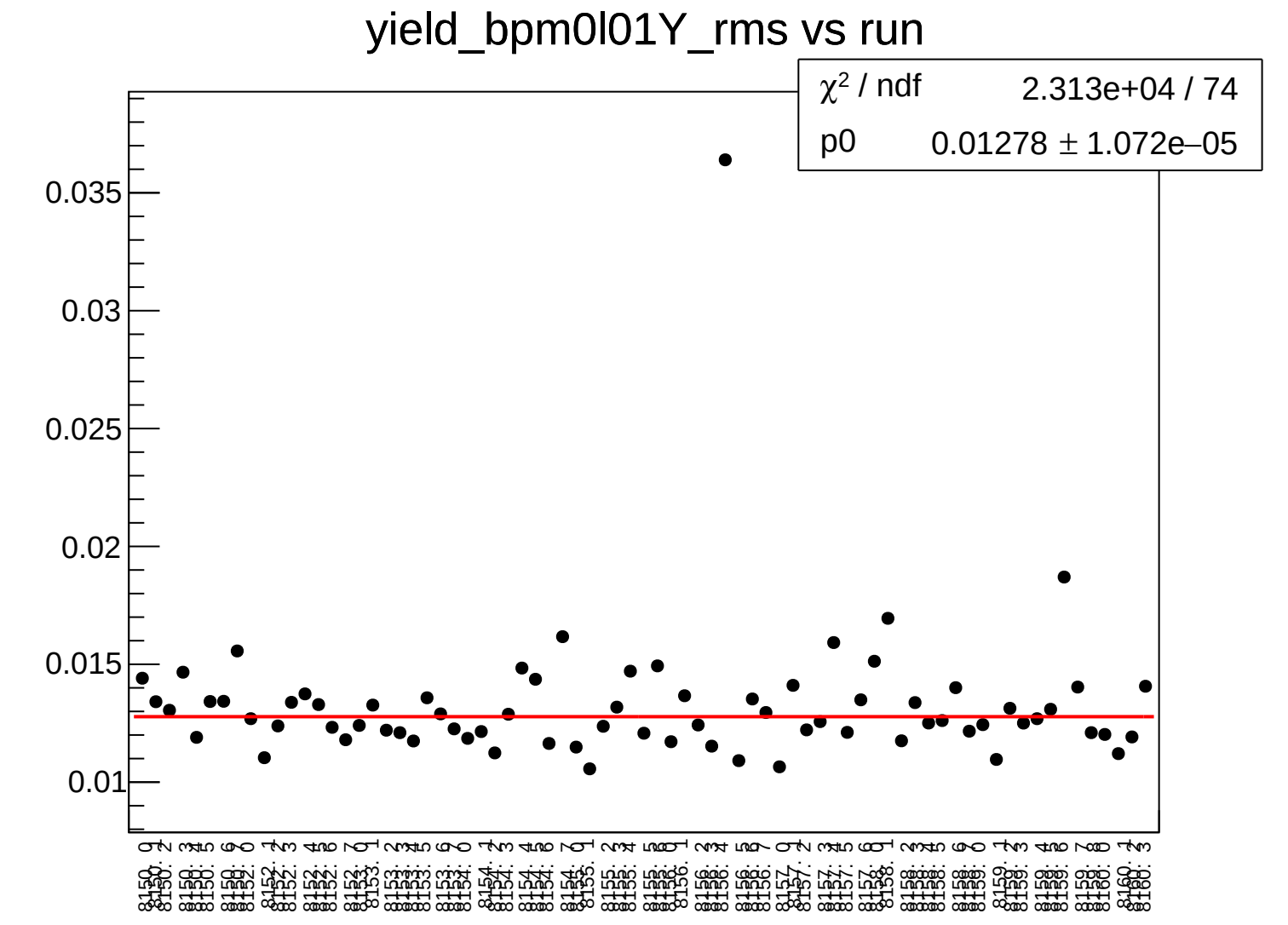

yield_bpm0l01X_mean vs run
χ² / ndf 4.362e+06 / 74
p0 0.6956 ± 1.208e−05
0.76
0.74
0.72
0.7
0.68
0.66
pull
Entries 75
Mean −1014
Std Dev 1049
600
400
200
0
−200
−400

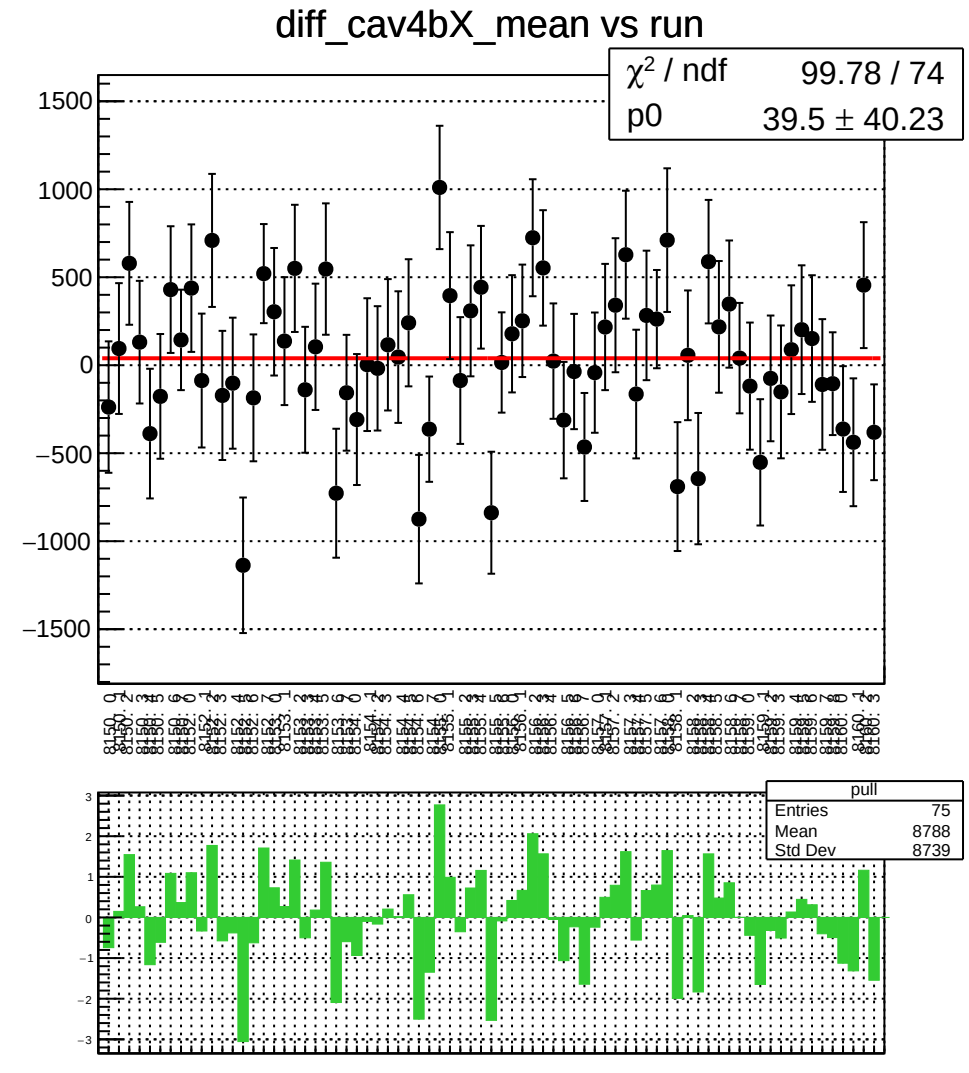

pull1D
Entries 75
Mean −1.421
Std Dev 2.395
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

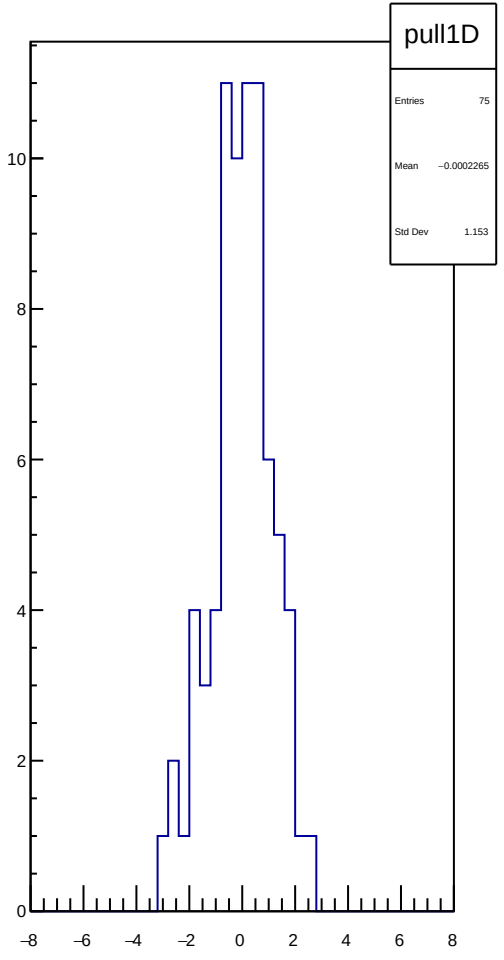

yield_bpm0l01X_rms vs run
χ² / ndf 1.734e+04 / 74
p0 0.0102 ± 8.542e−06
0.016
0.014
0.012
0.01
0.008

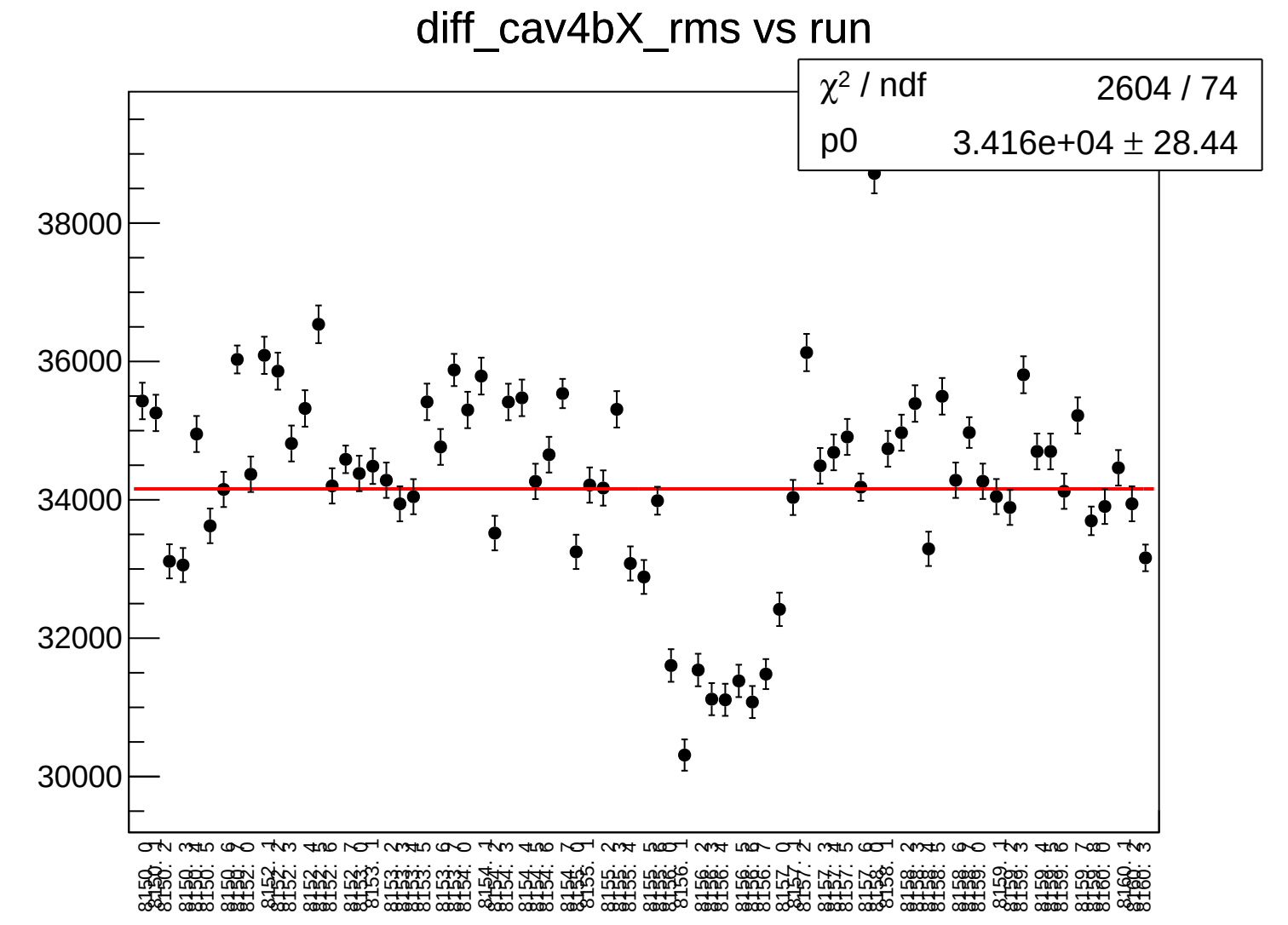

yield_bpm0l01Y_mean vs run
χ² / ndf 3.28e+06 / 74
p0 −6.177 ± 1.516e−05
−6.12
−6.14
−6.16
−6.18
−6.2
−6.22
−6.24
pull
Entries 75
Mean 470.3
Std Dev 406.9
400
300
200
100
0
−100
−200
−300

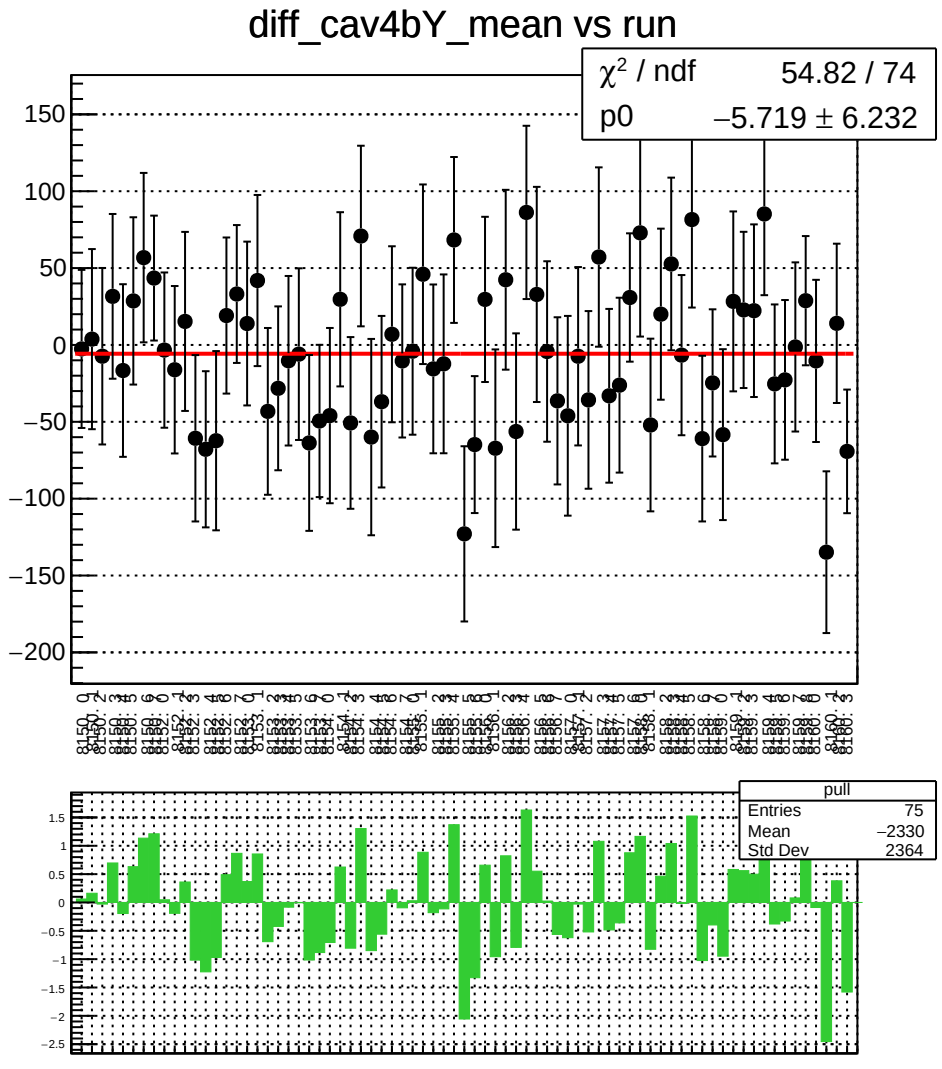

pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

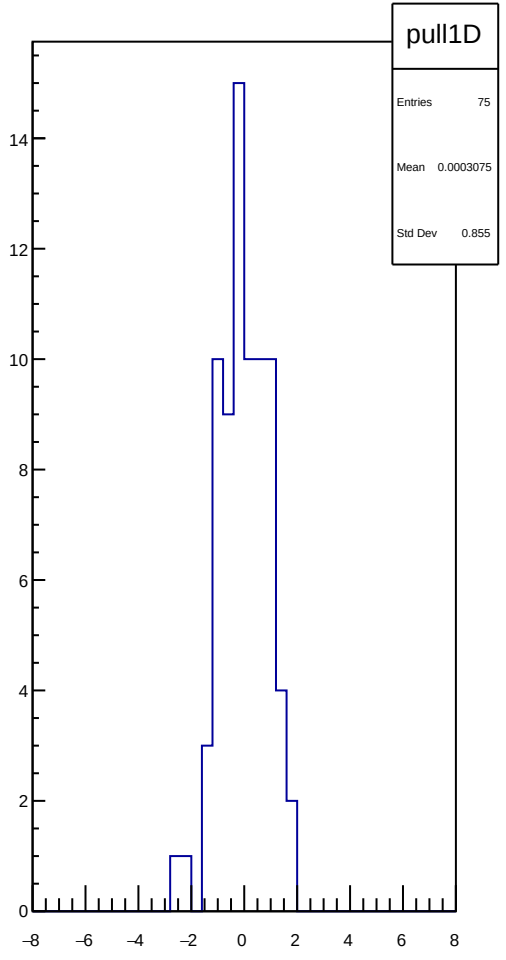

yield_bpm0l01Y_rms vs run
χ² / ndf 2.313e+04 / 74
p0 0.01278 ± 1.072e−05
0.035
0.03
0.025
0.02
0.015
0.01

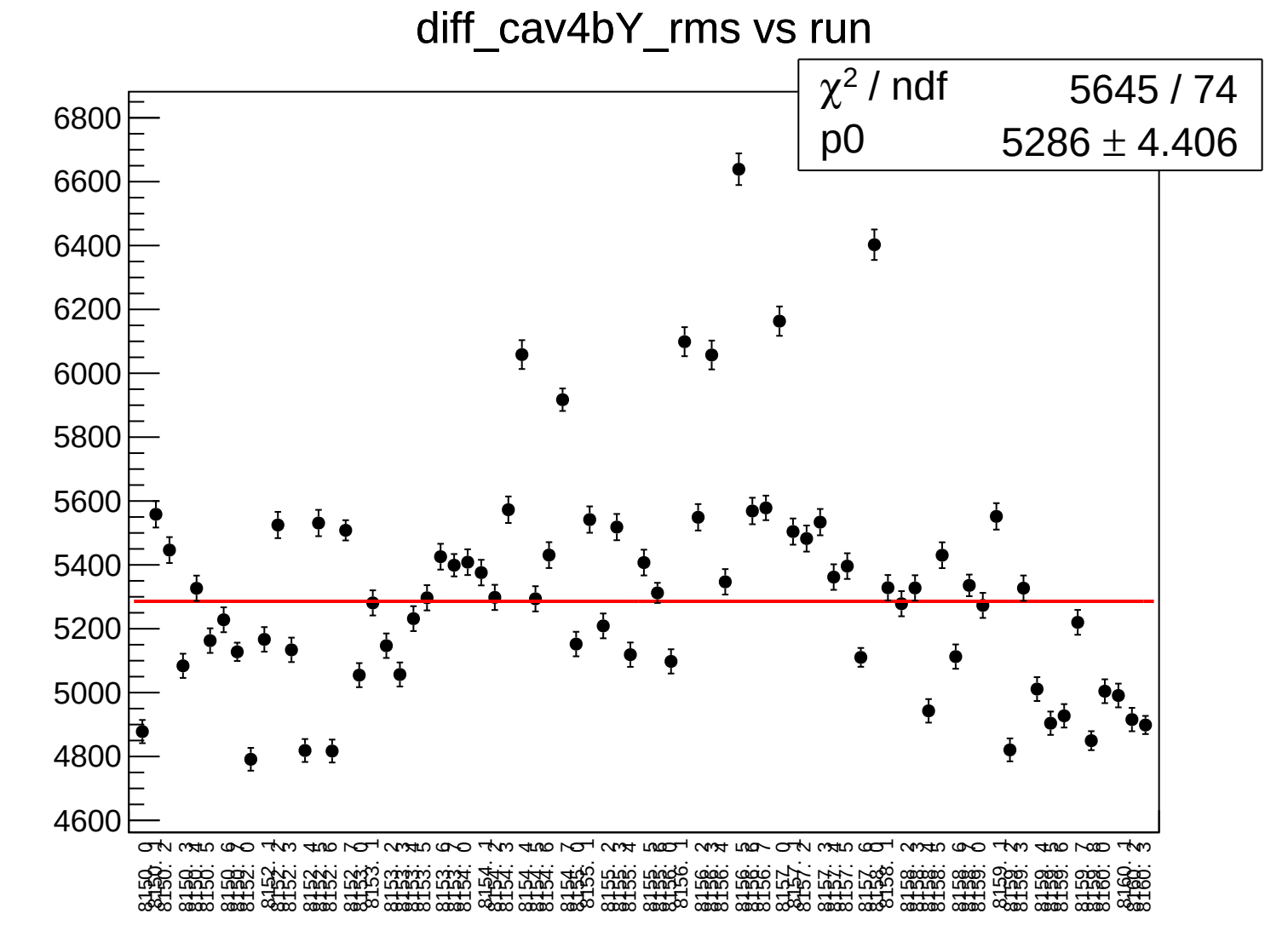

diff_cav4bX_mean vs run
χ² / ndf 99.78 / 74
p0 39.5 ± 40.23
pull
Entries 75
Mean 8788
Std Dev 8739

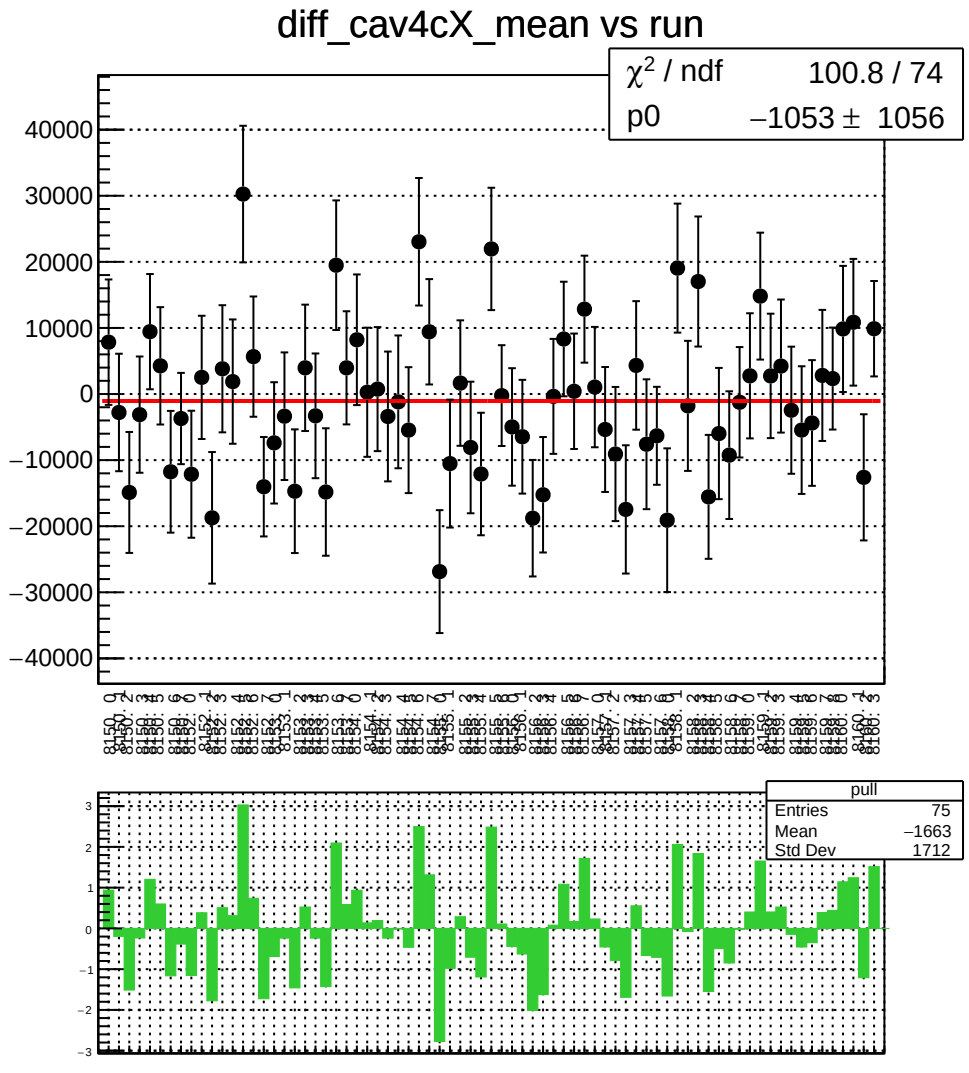

pull1D
Entries 75
Mean −0.0002265
Std Dev 1.153

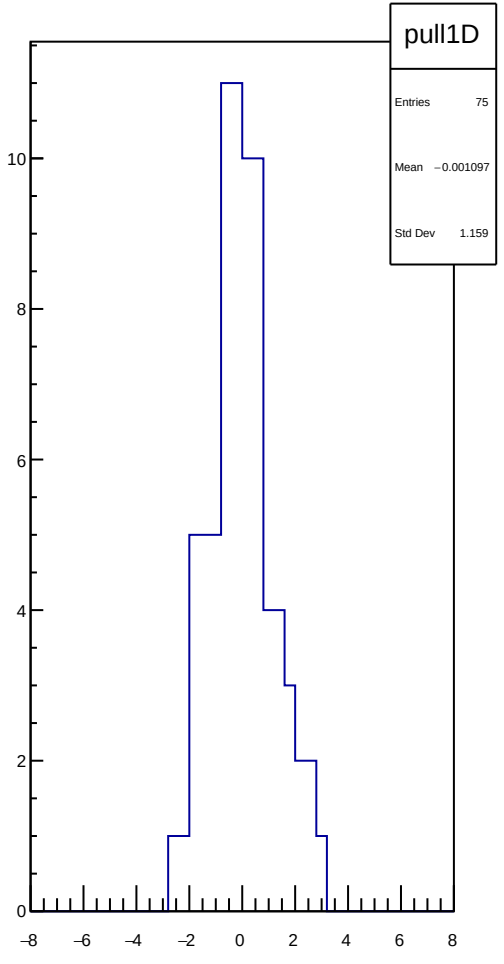

diff_cav4bX_rms vs run
χ² / ndf 2604 / 74
p0 3.416e+04 ± 28.44
38000
36000
34000
32000
30000

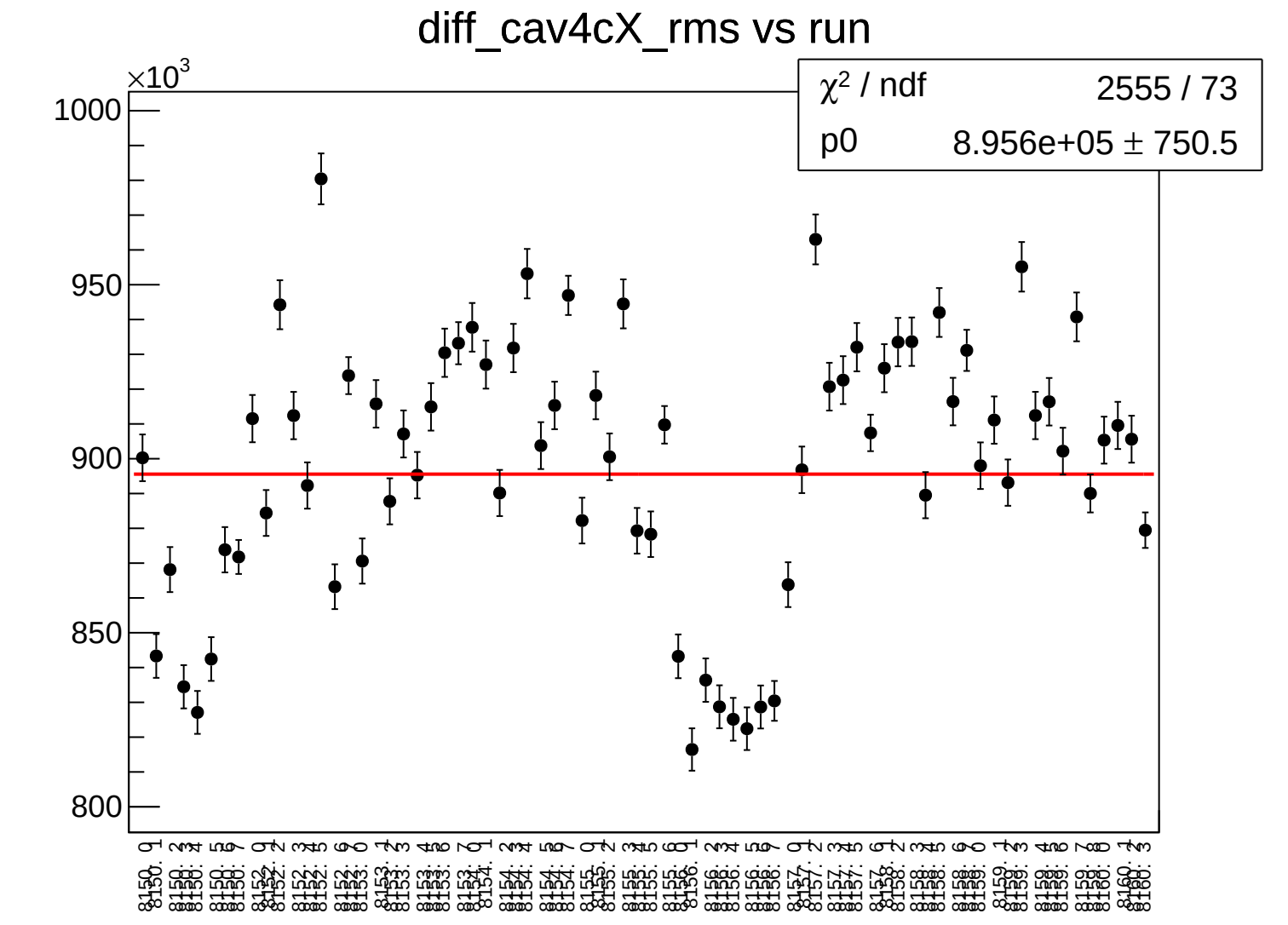

diff_cav4bY_mean vs run
χ² / ndf 54.82 / 74
p0 −5.719 ± 6.232
pull
Entries 75
Mean −2330
Std Dev 2364

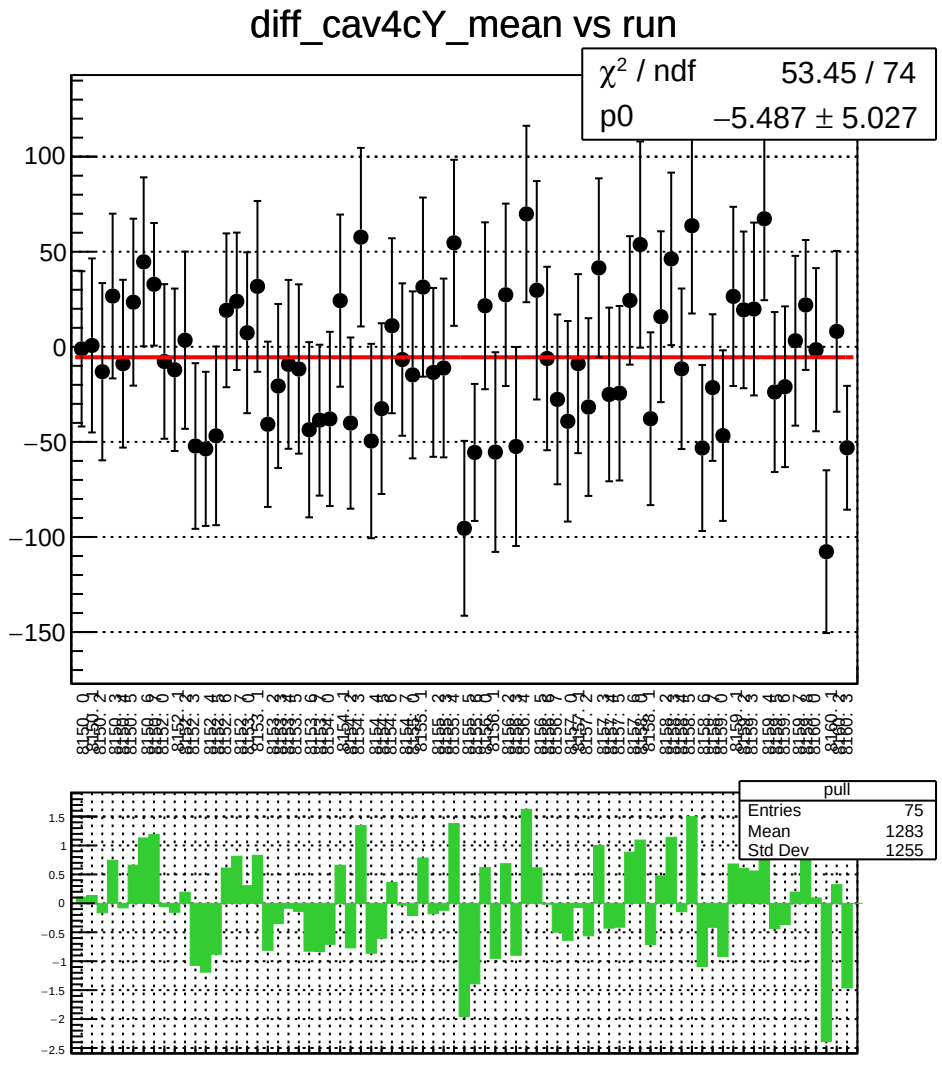

pull1D
Entries 75
Mean 0.0003075
Std Dev 0.855

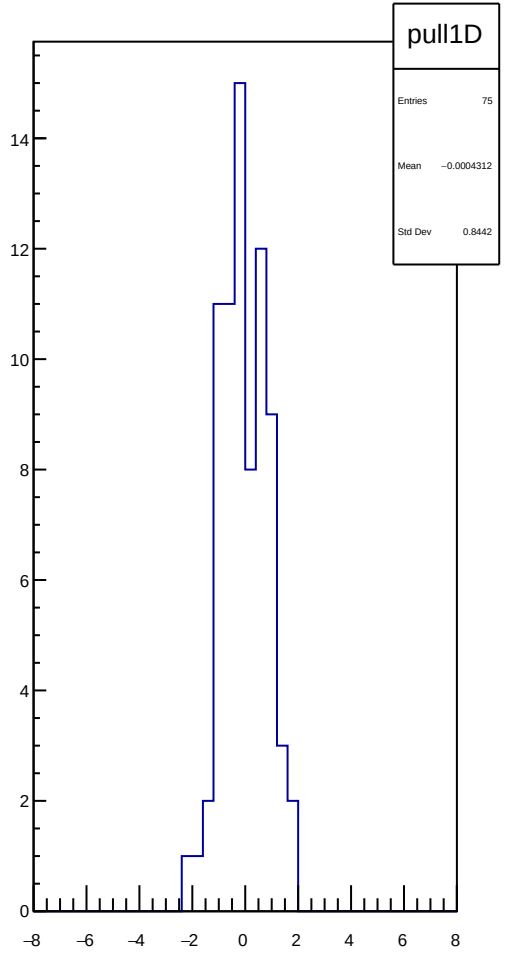

diff_cav4bY_rms vs run
χ² / ndf 5645 / 74
p0 5286 ± 4.406
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

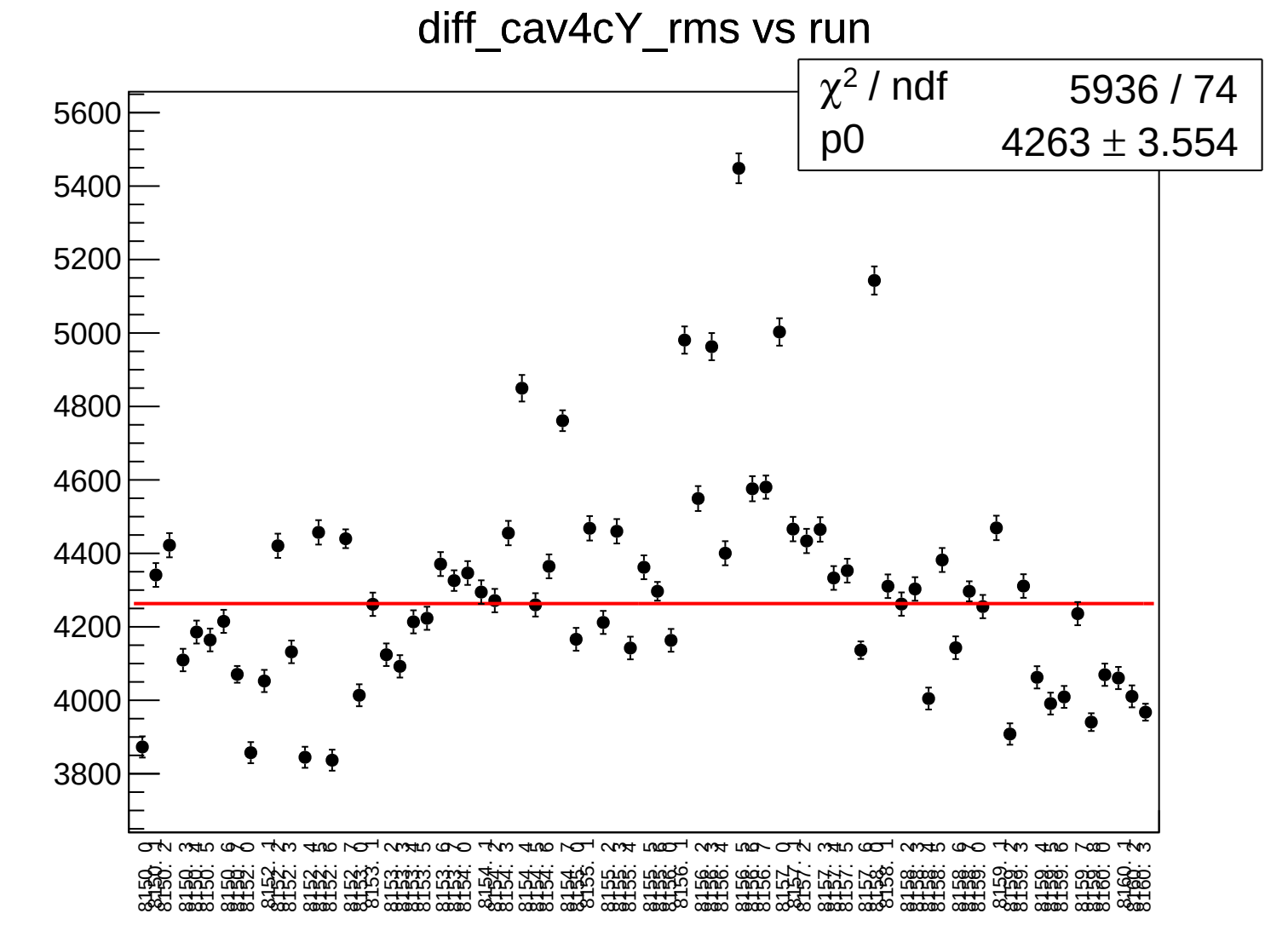

diff_cav4cX_mean vs run
χ² / ndf 100.8 / 74
p0 −1053 ± 1056
pull
Entries 75
Mean −1663
Std Dev 1712

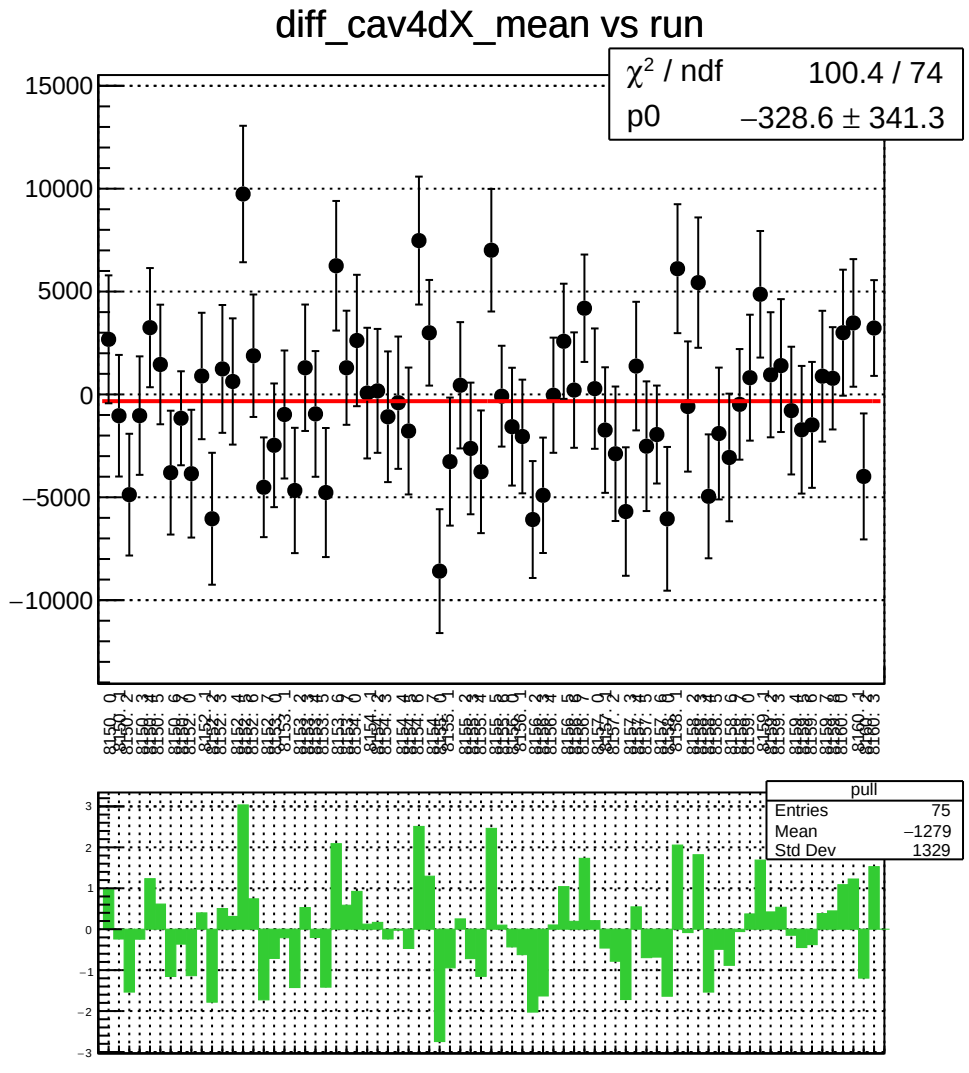

pull1D
Entries 75
Mean −0.001097
Std Dev 1.159

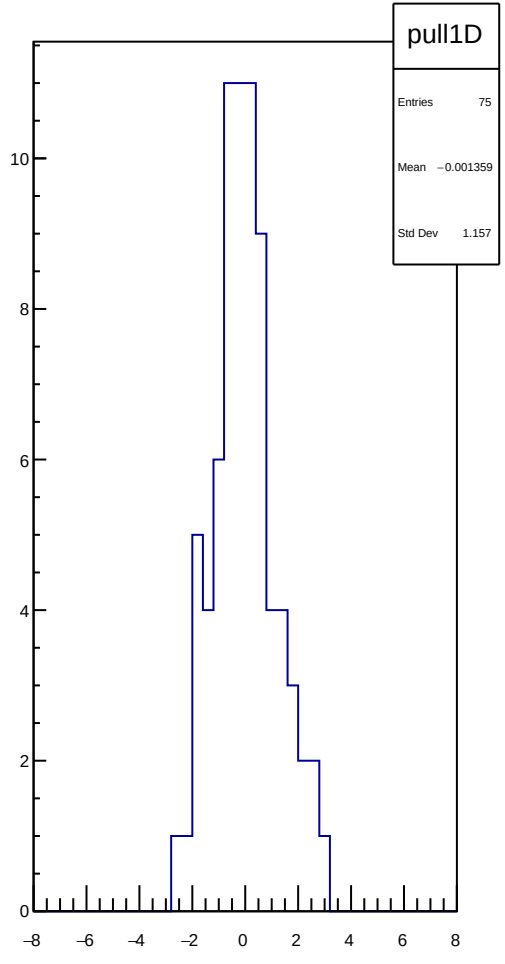

diff_cav4cX_rms vs run
×10^3
1000
950
900
850
800
χ² / ndf 2555 / 73
p0 8.956e+05 ± 750.5

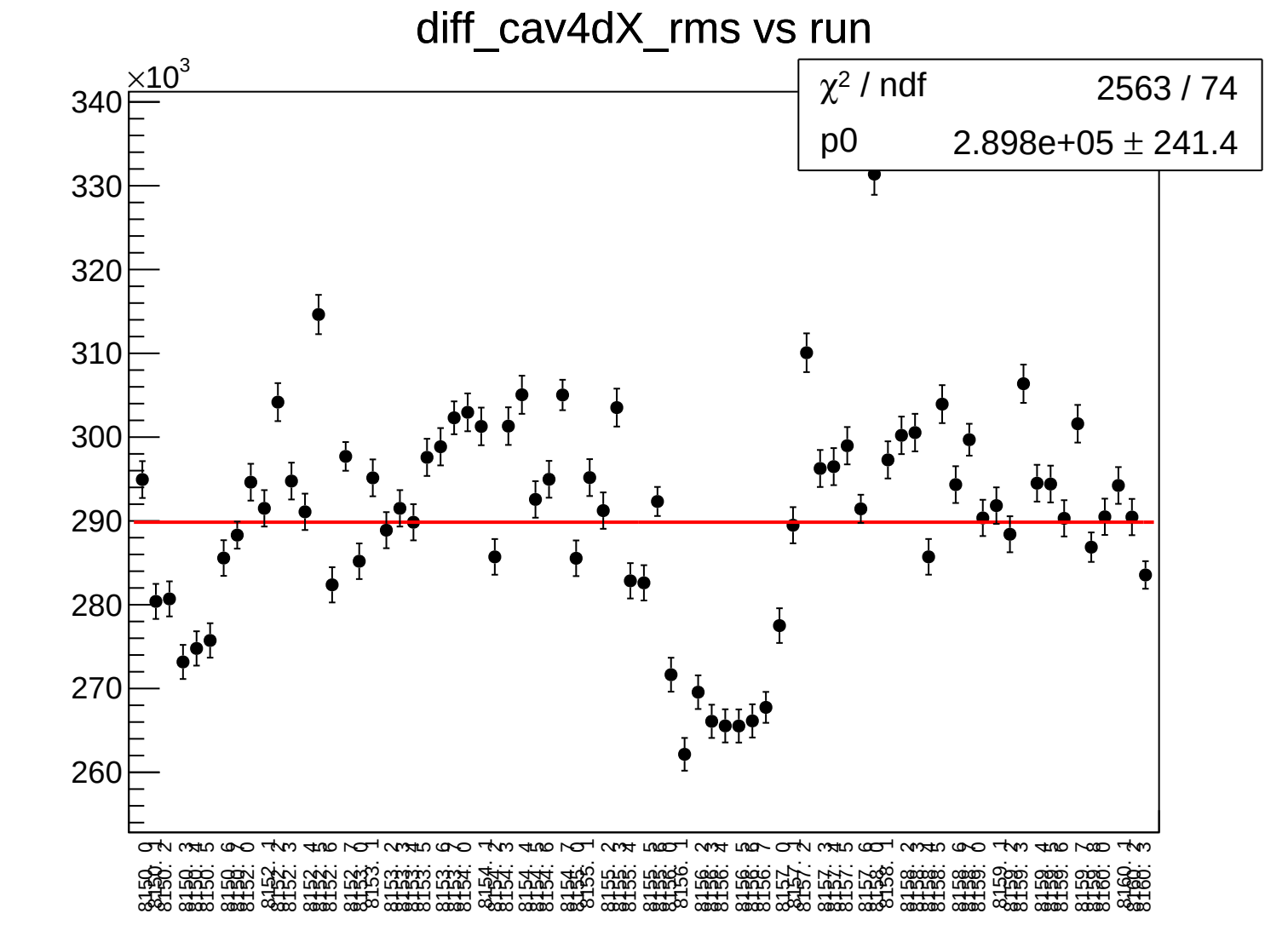

diff_cav4cY_mean vs run
χ² / ndf 53.45 / 74
p0 −5.487 ± 5.027
pull
Entries 75
Mean 1283
Std Dev 1255

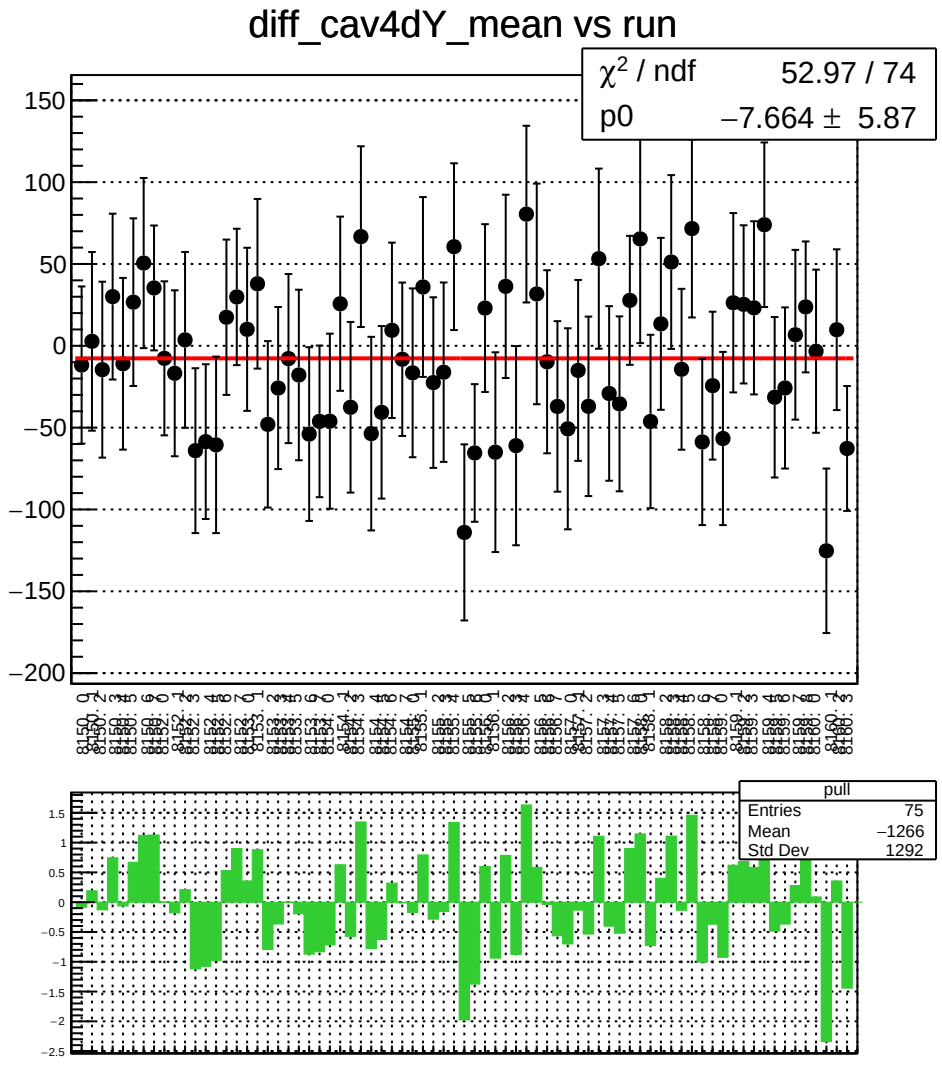

pull1D
Entries 75
Mean −0.0004312
Std Dev 0.8442

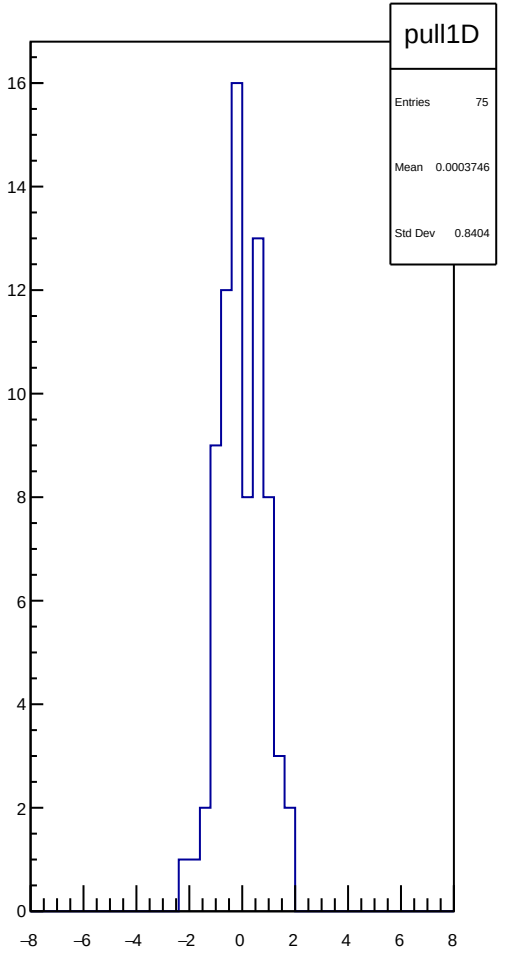

diff_cav4cY_rms vs run
χ^2 / ndf 5936 / 74
p0 4263 ± 3.554
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

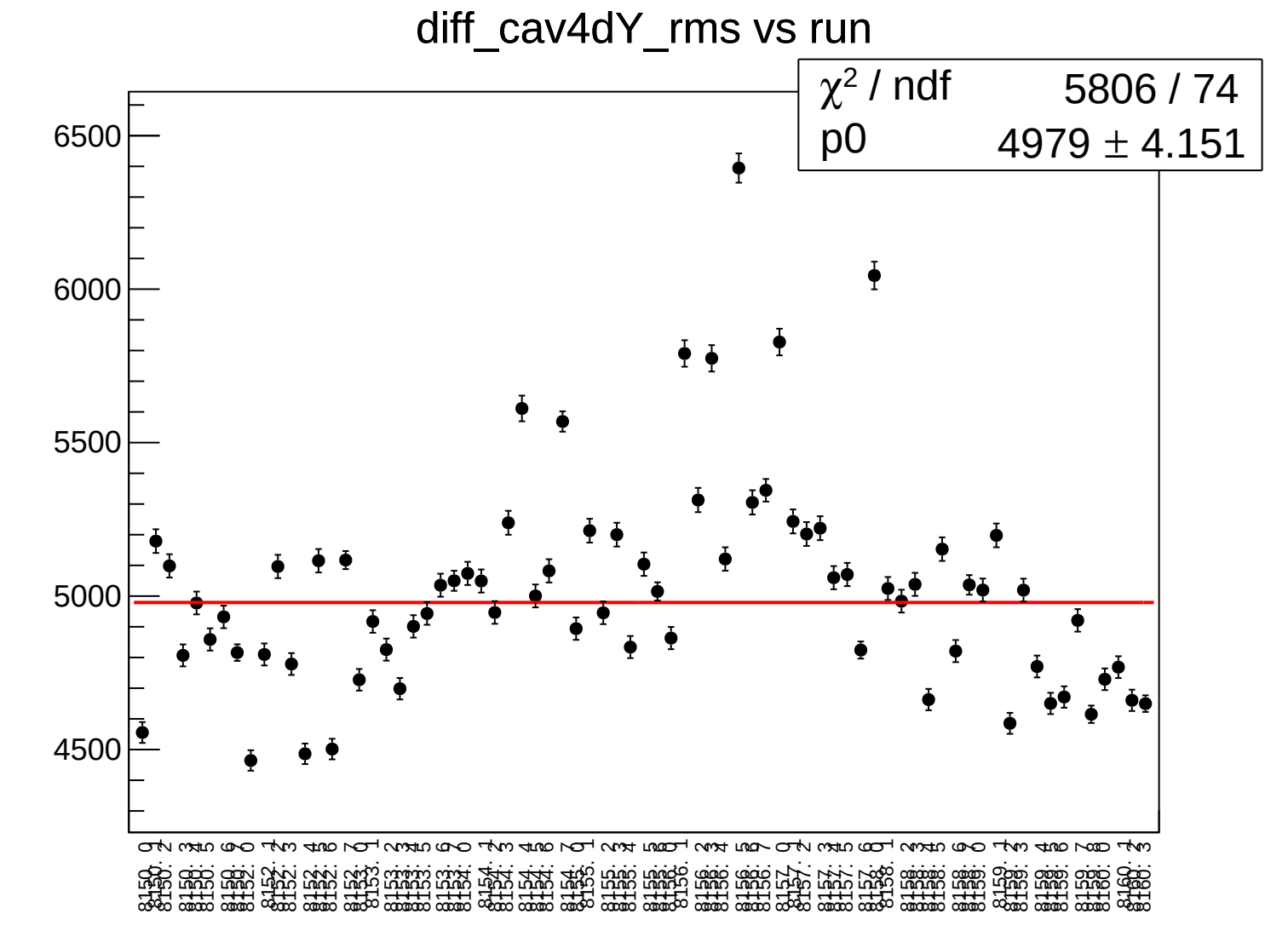

diff_cav4dX_mean vs run
χ² / ndf 100.4 / 74
p0 −328.6 ± 341.3
15000
10000
5000
0
−5000
−10000
pull
Entries 75
Mean −1279
Std Dev 1329
3
2
1
0
−1
−2
−3

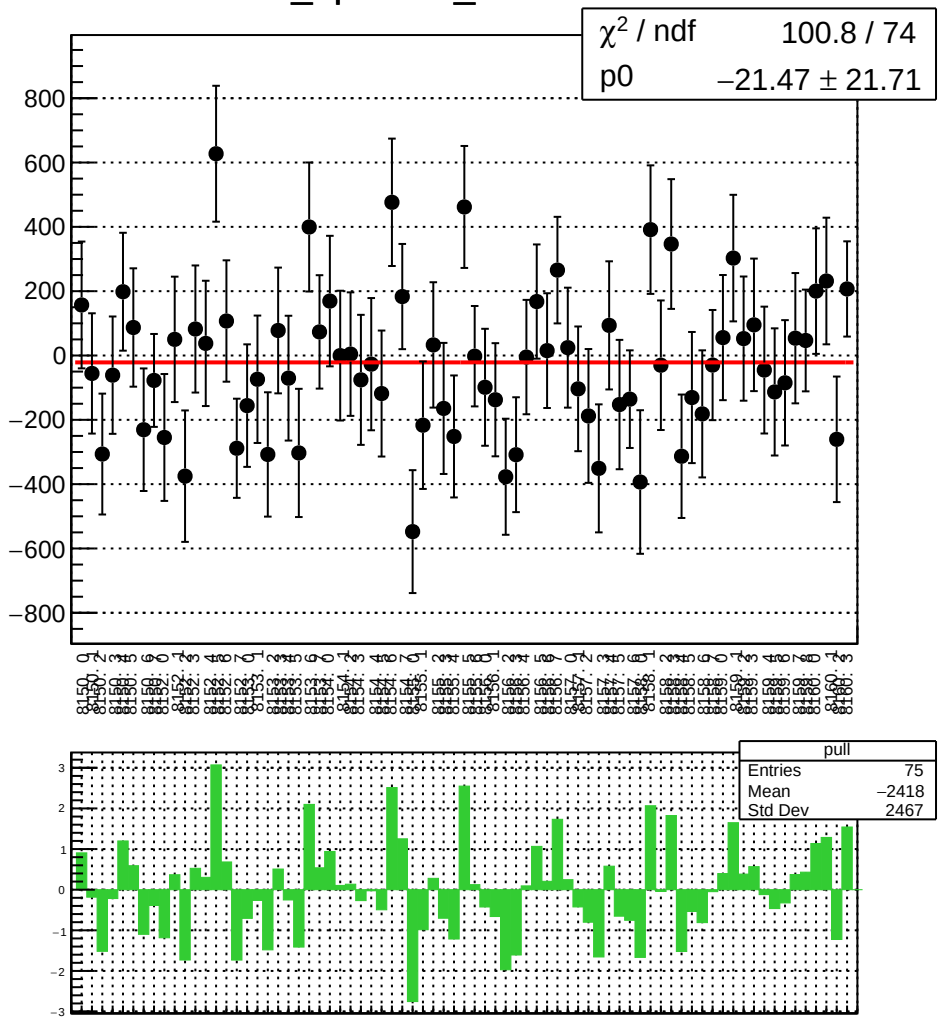

pull1D
Entries 75
Mean −0.001359
Std Dev 1.157
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

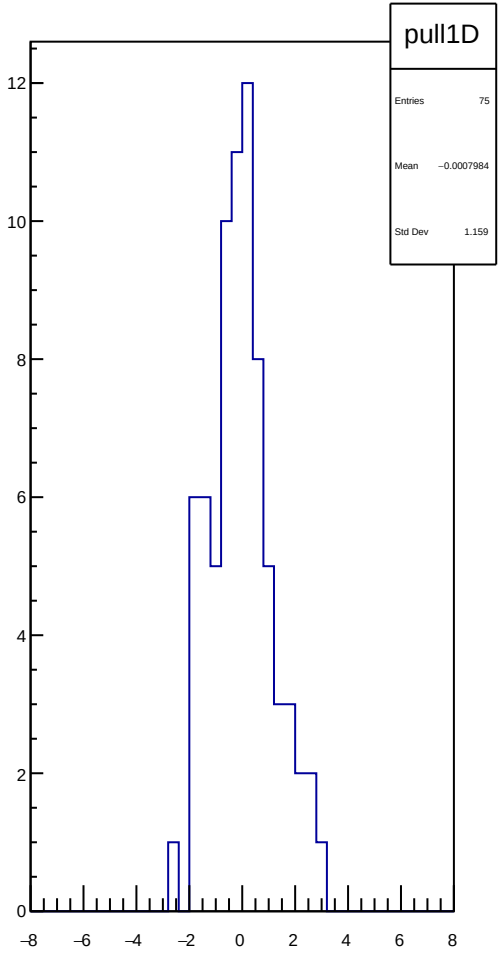

diff_cav4dX_rms vs run
×10^3
340
330
320
310
300
290
280
270
260
χ² / ndf 2563 / 74
p0 2.898e+05 ± 241.4

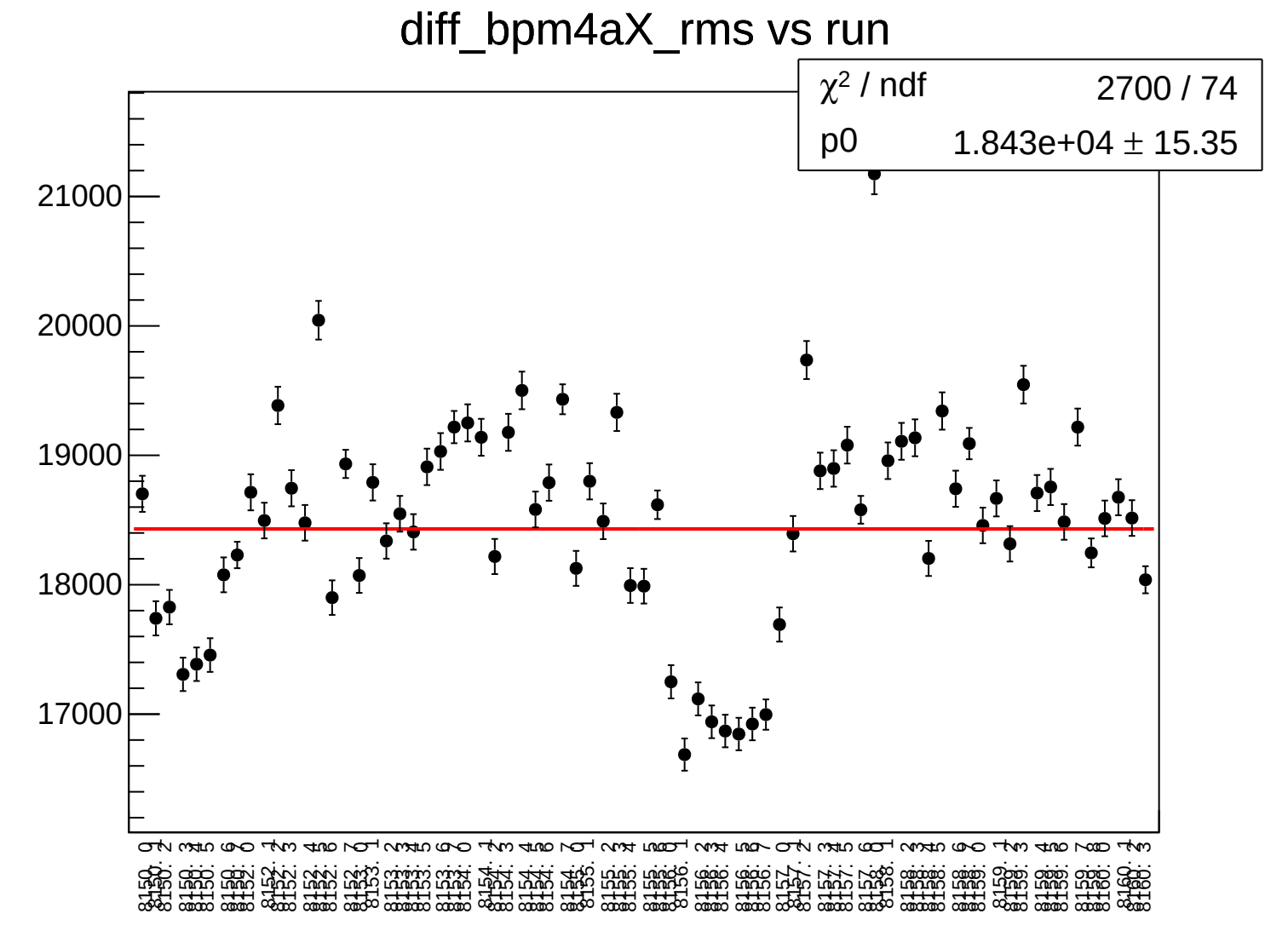

diff_cav4dY_mean vs run
χ² / ndf 52.97 / 74
p0 −7.664 ± 5.87
pull
Entries 75
Mean −1266
Std Dev 1292

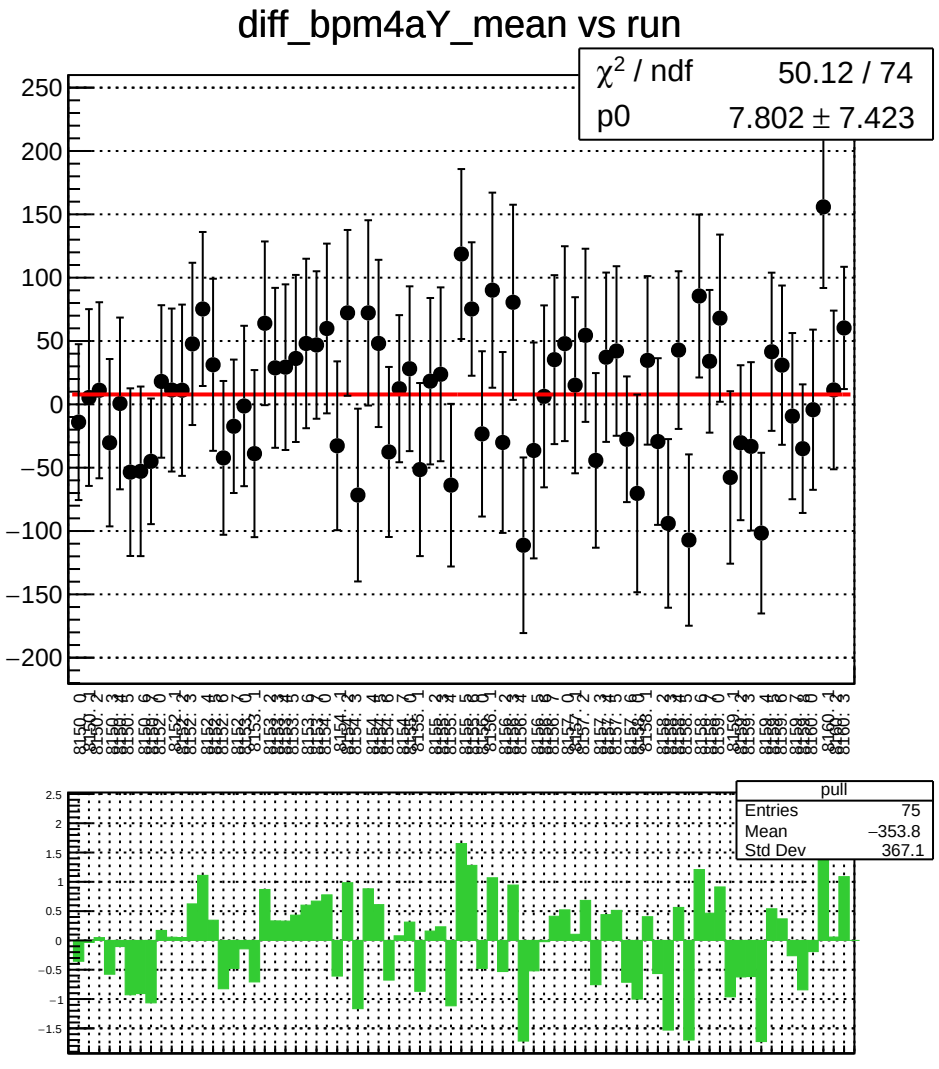

pull1D
Entries 75
Mean 0.0003746
Std Dev 0.8404

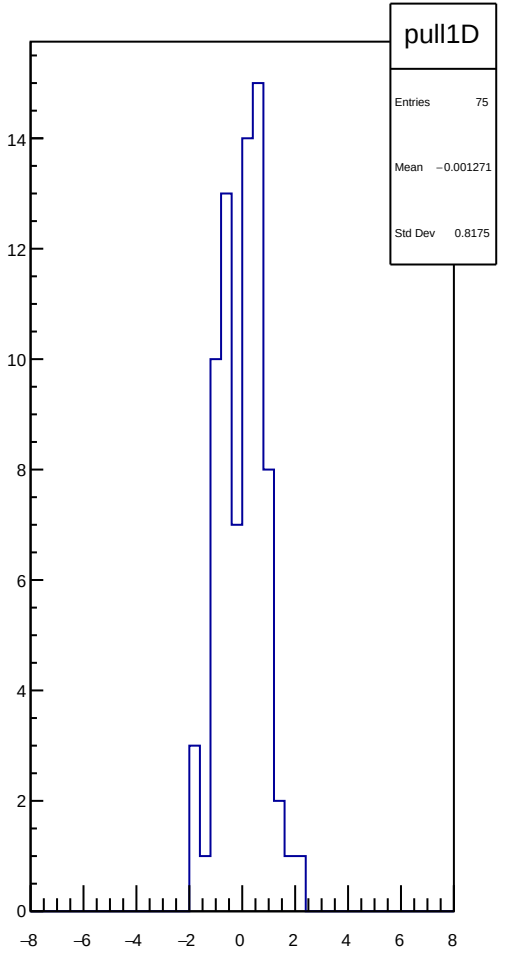

diff_cav4dY_rms vs run
χ² / ndf 5806 / 74
p0 4979 ± 4.151
6500
6000
5500
5000
4500

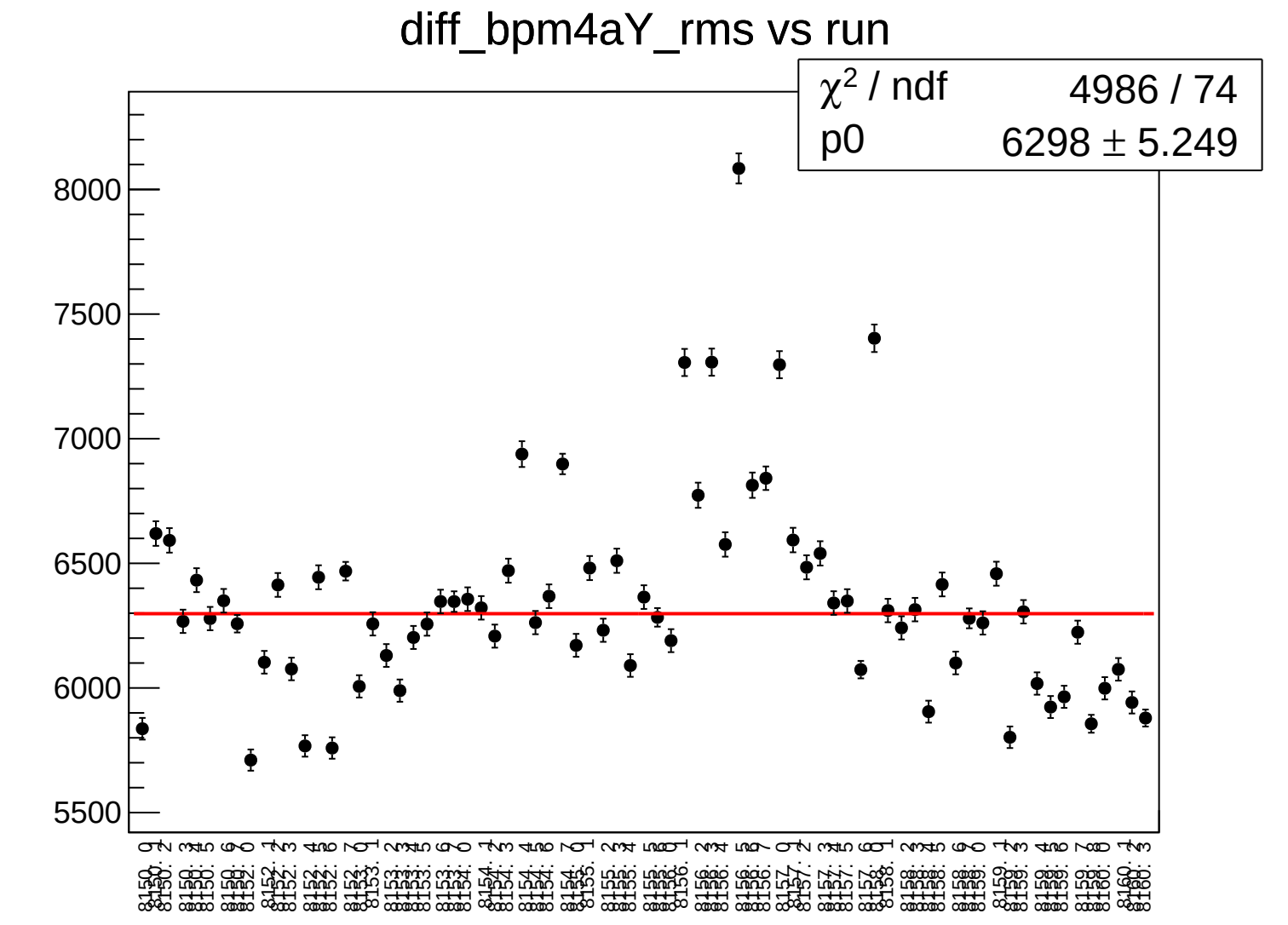

diff_bpm4aX_mean vs run
χ^2 / ndf 100.8 / 74
p0 −21.47 ± 21.71
pull
Entries 75
Mean −2418
Std Dev 2467

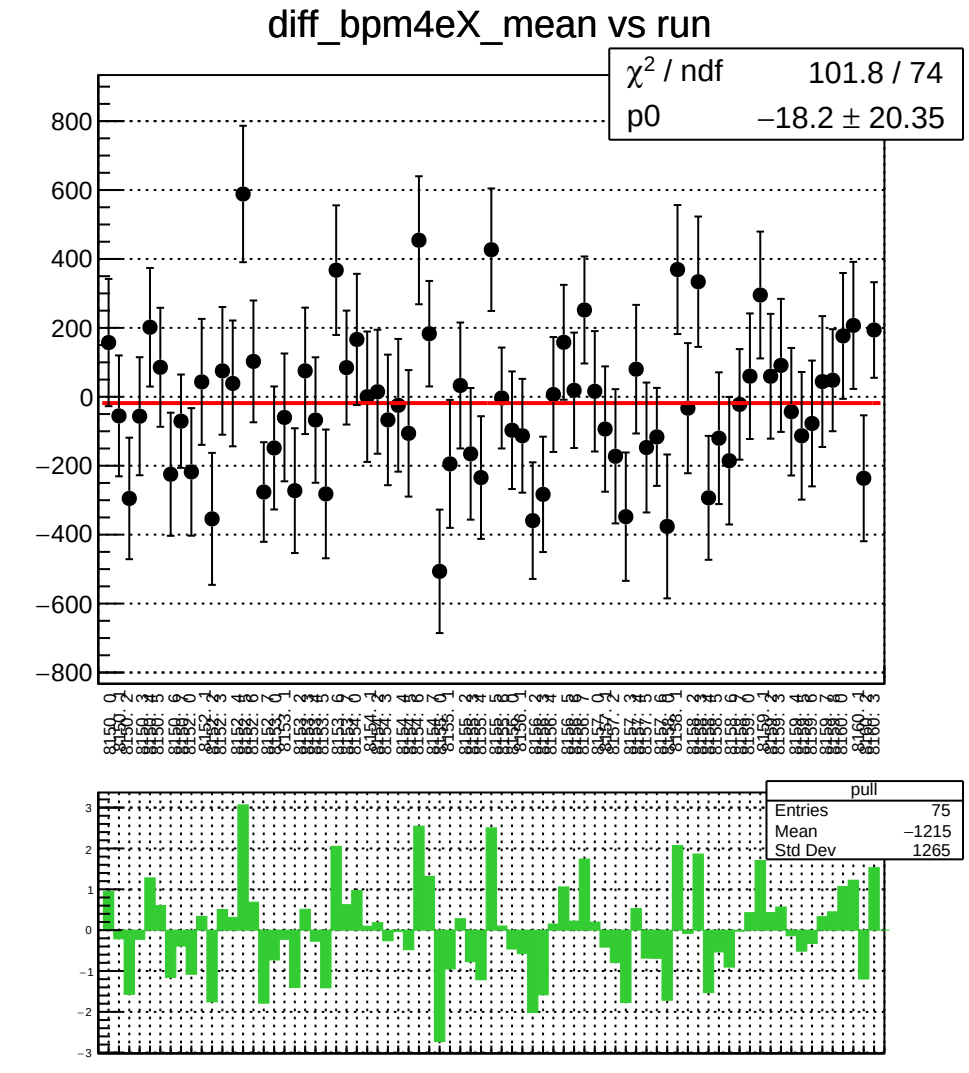

pull1D
Entries 75
Mean −0.0007984
Std Dev 1.159

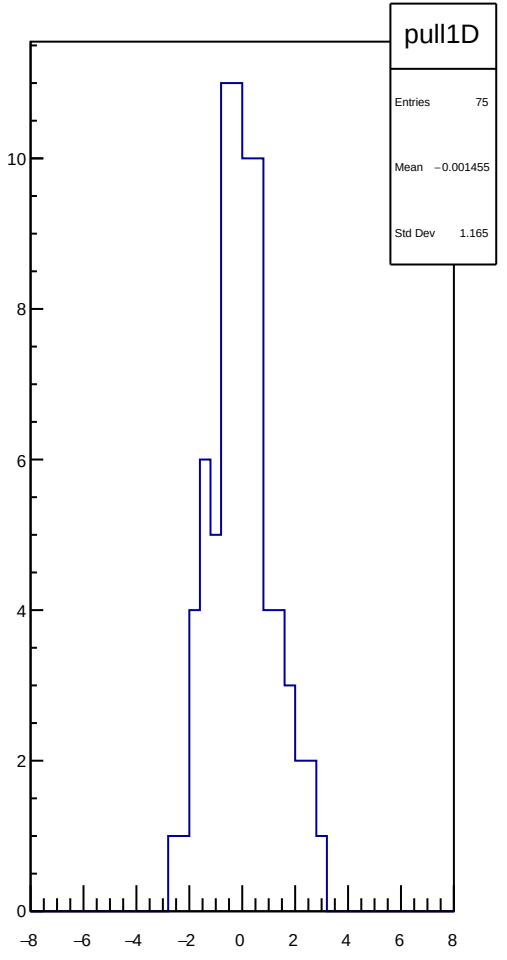

diff_bpm4aX_rms vs run
χ² / ndf 2700 / 74
p0 1.843e+04 ± 15.35
21000
20000
19000
18000
17000

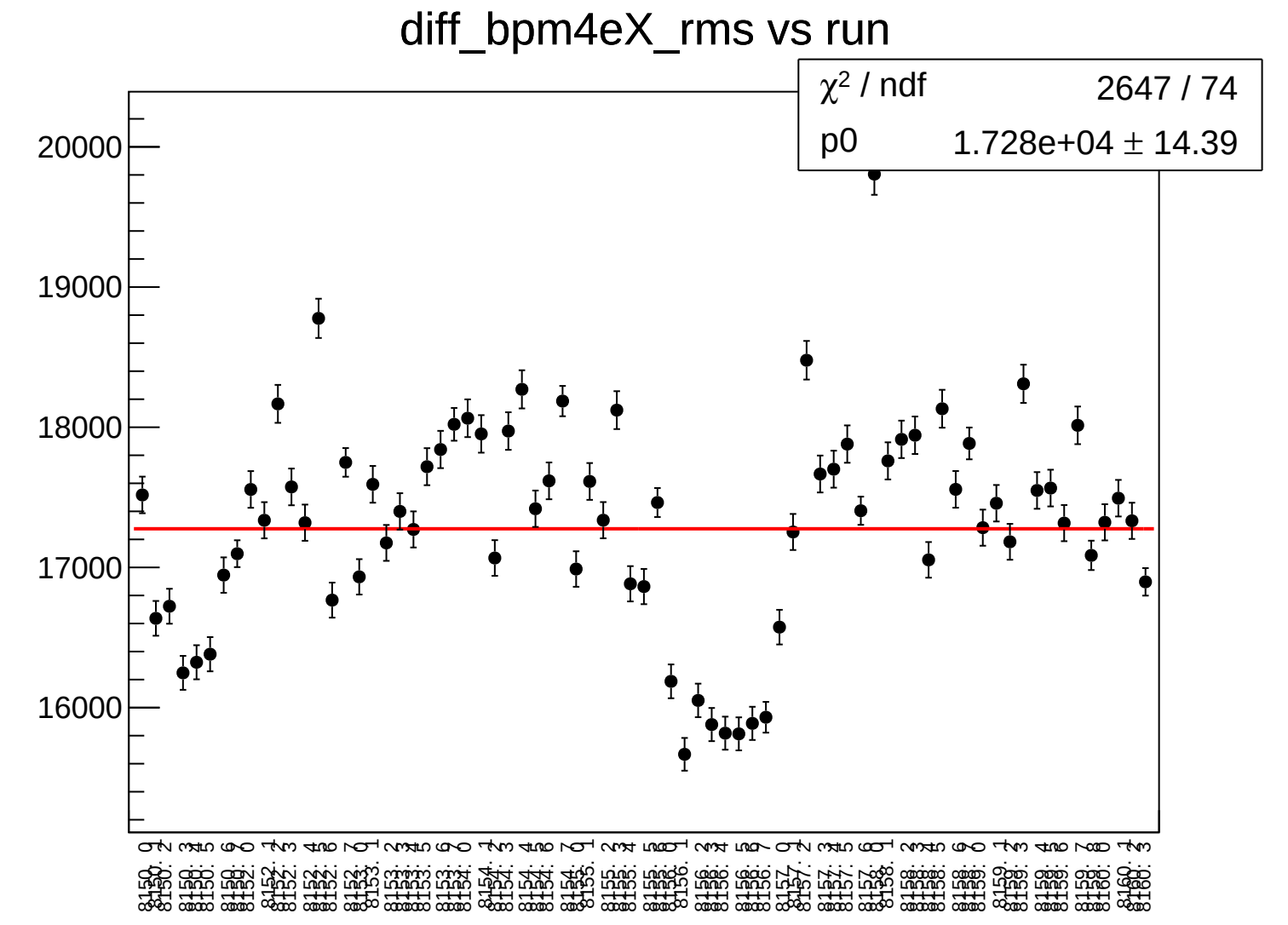

diff_bpm4aY_mean vs run
χ² / ndf 50.12 / 74
p0 7.802 ± 7.423
pull
Entries 75
Mean −353.8
Std Dev 367.1

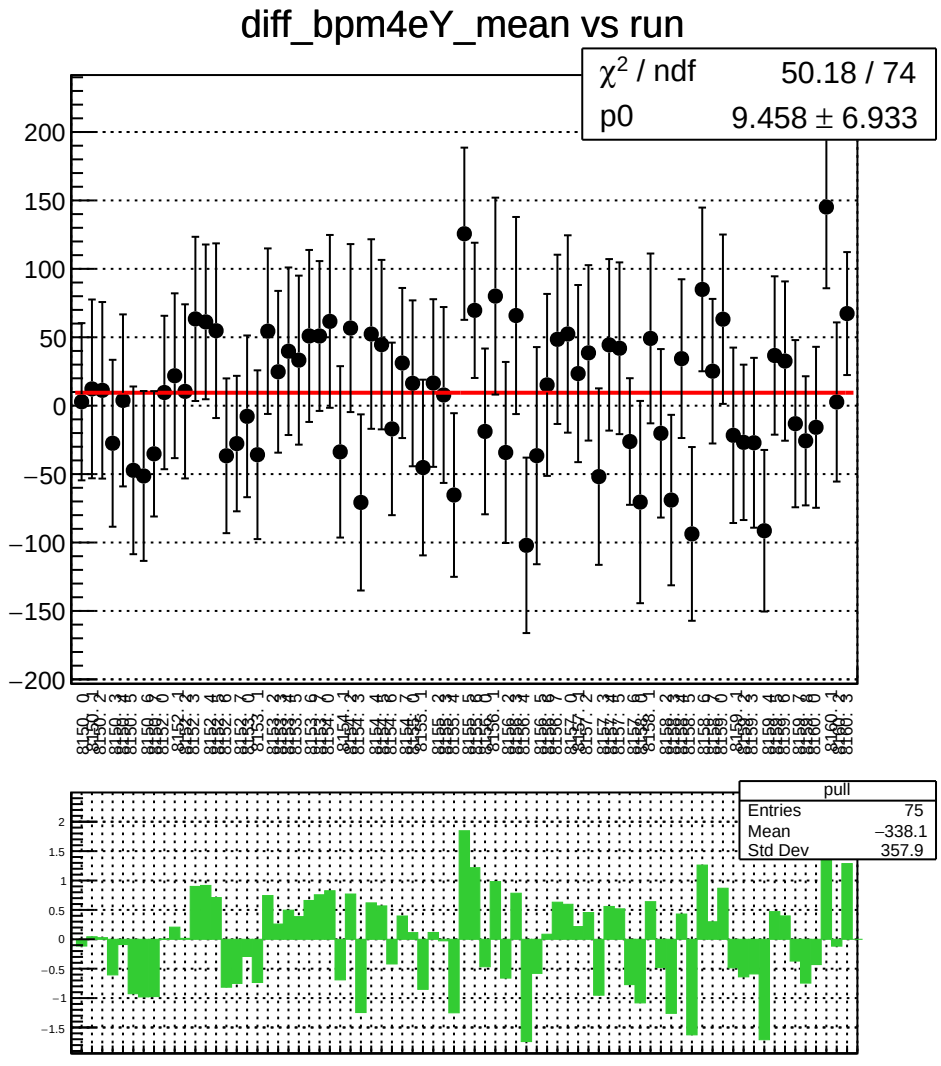

pull1D
Entries 75
Mean −0.001271
Std Dev 0.8175

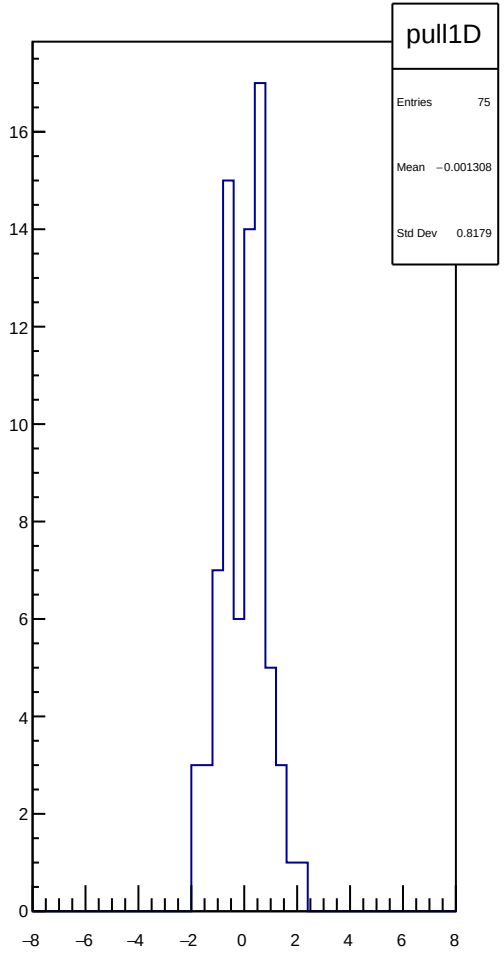

diff_bpm4aY_rms vs run
χ² / ndf 4986 / 74
p0 6298 ± 5.249
8000
7500
7000
6500
6000
5500

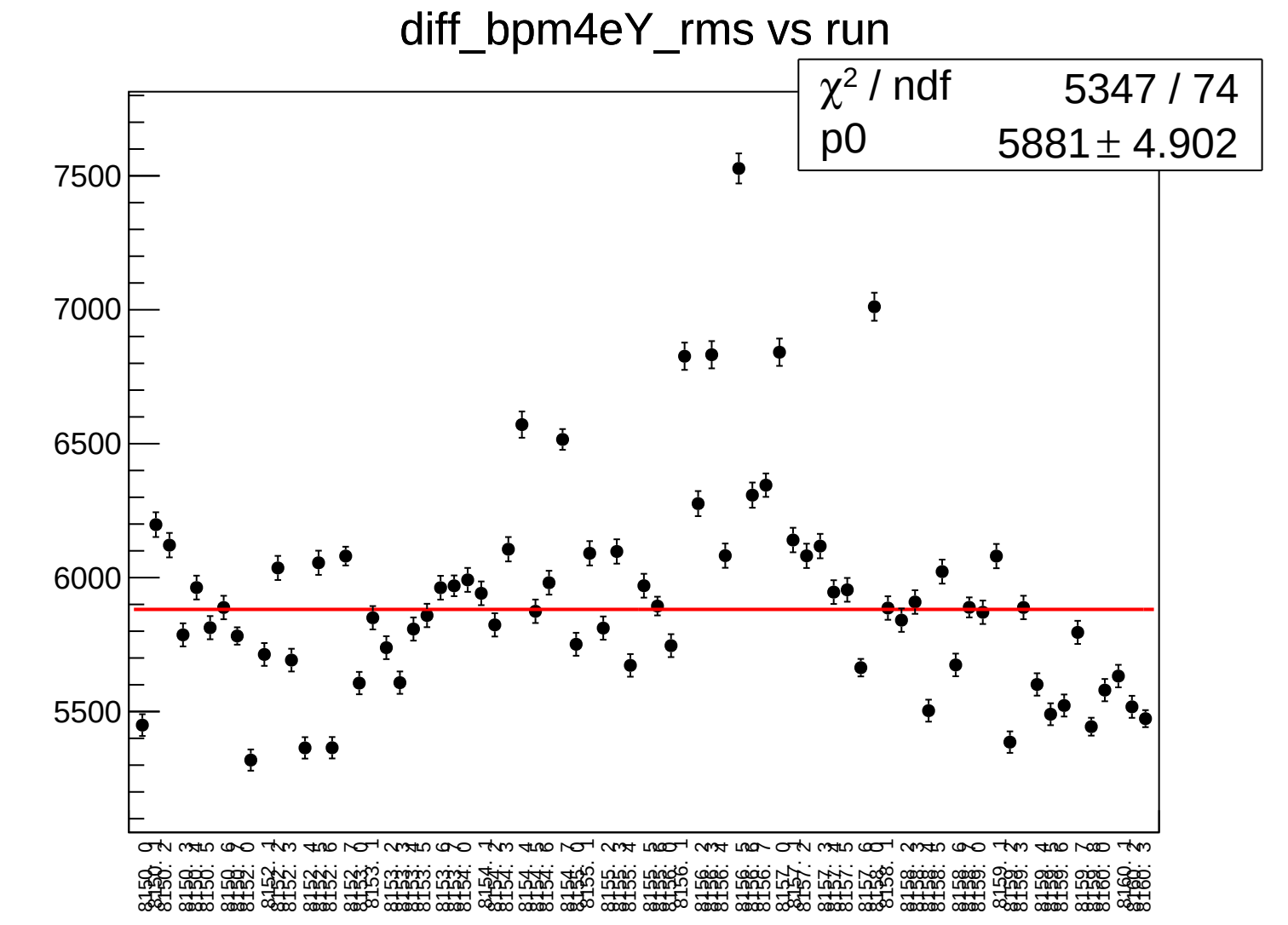

diff_bpm4eX_mean vs run
χ² / ndf 101.8 / 74
p0 −18.2 ± 20.35
pull
Entries 75
Mean −1215
Std Dev 1265

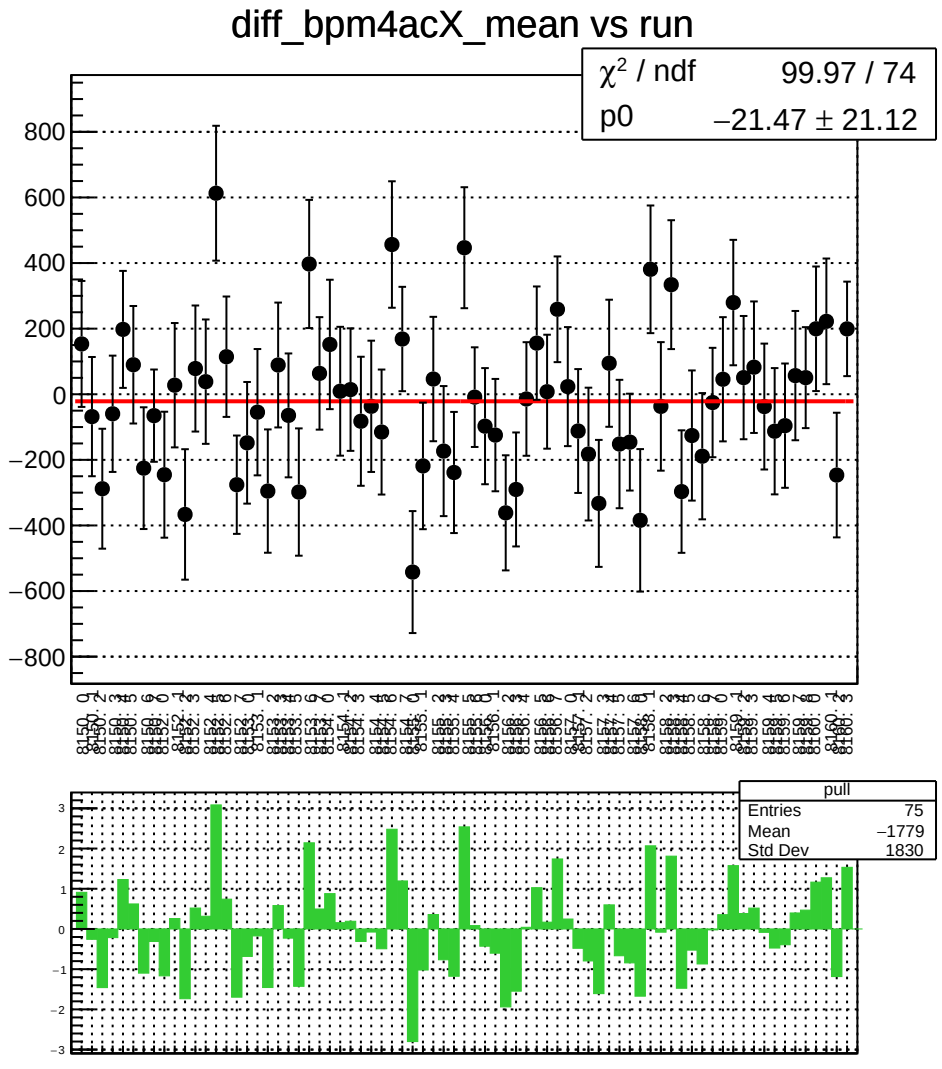

pull1D
Entries 75
Mean −0.001455
Std Dev 1.165

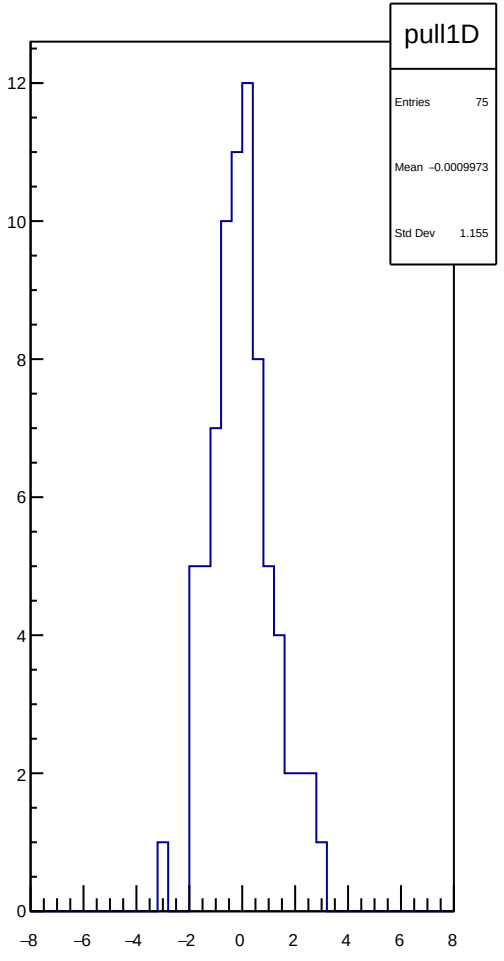

diff_bpm4eX_rms vs run
χ² / ndf 2647 / 74
p0 1.728e+04 ± 14.39
20000
19000
18000
17000
16000

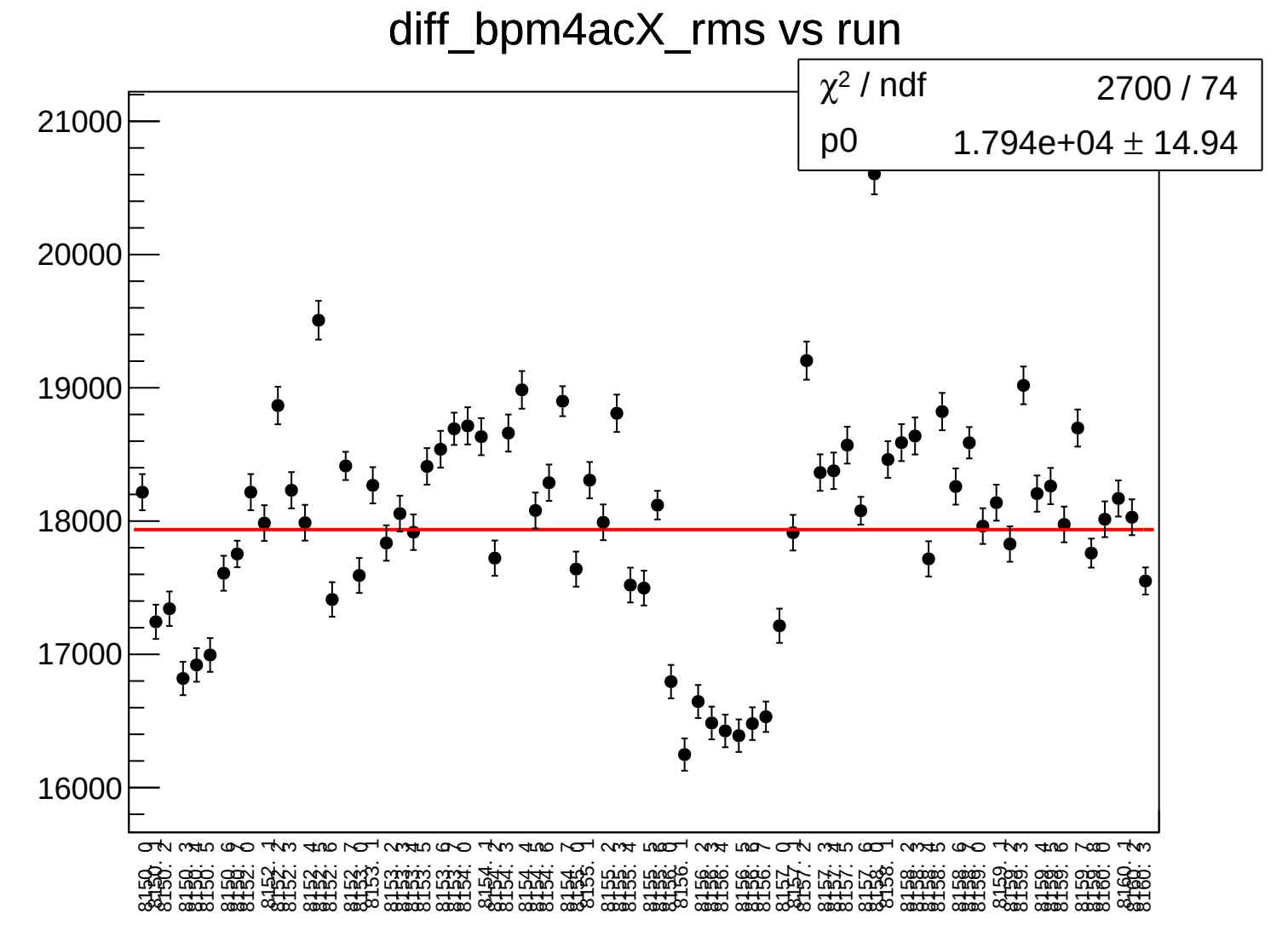

diff_bpm4eY_mean vs run
χ² / ndf 50.18 / 74
p0 9.458 ± 6.933
pull
Entries 75
Mean −338.1
Std Dev 357.9

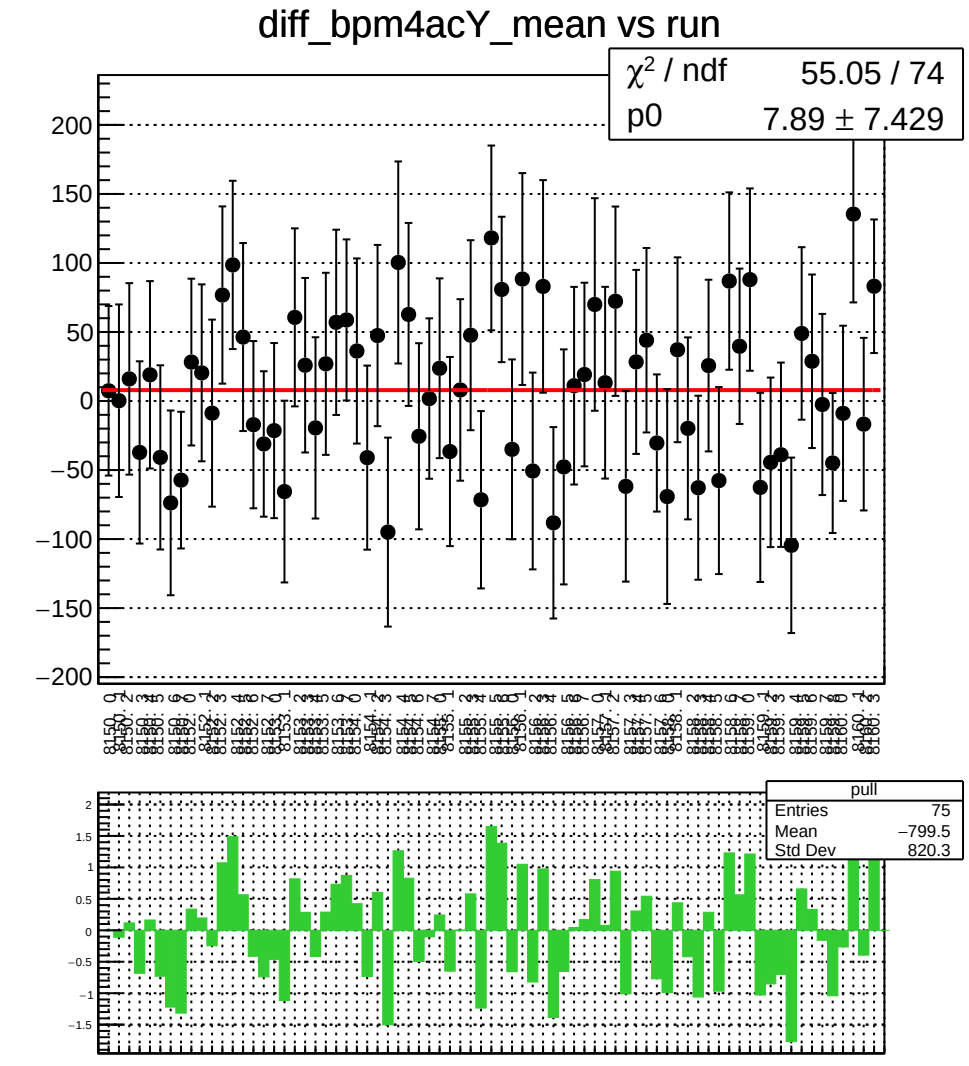

pull1D
Entries 75
Mean −0.001308
Std Dev 0.8179

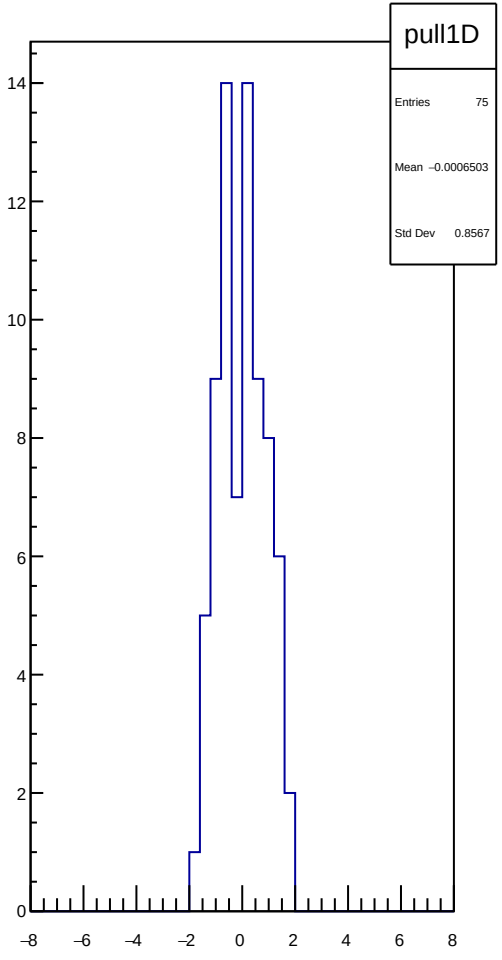

diff_bpm4eY_rms vs run
χ^2 / ndf 5347 / 74
p0 5881 ± 4.902
7500
7000
6500
6000
5500

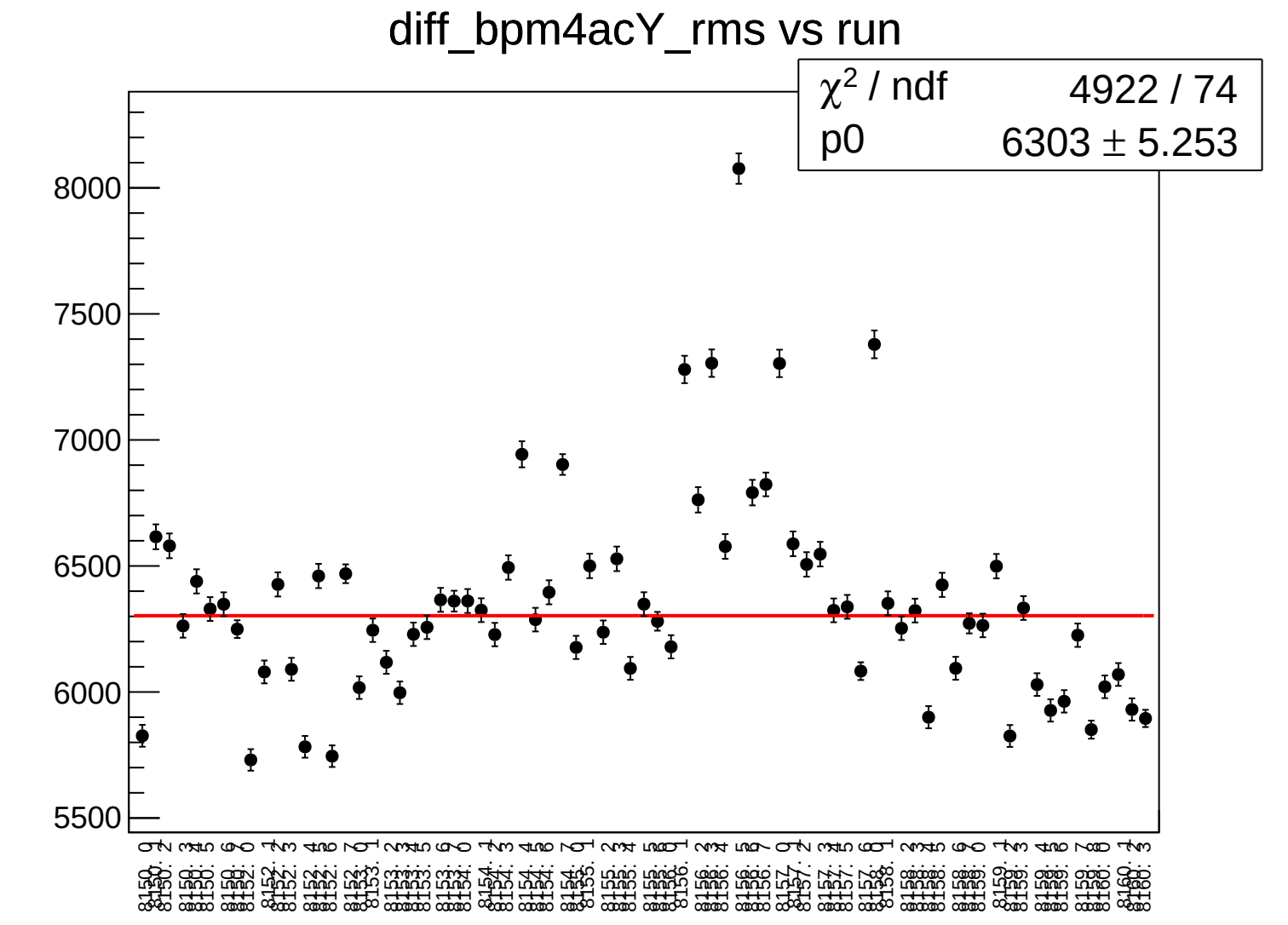

diff_bpm4acX_mean vs run
χ² / ndf 99.97 / 74
p0 −21.47 ± 21.12
pull
Entries 75
Mean −1779
Std Dev 1830

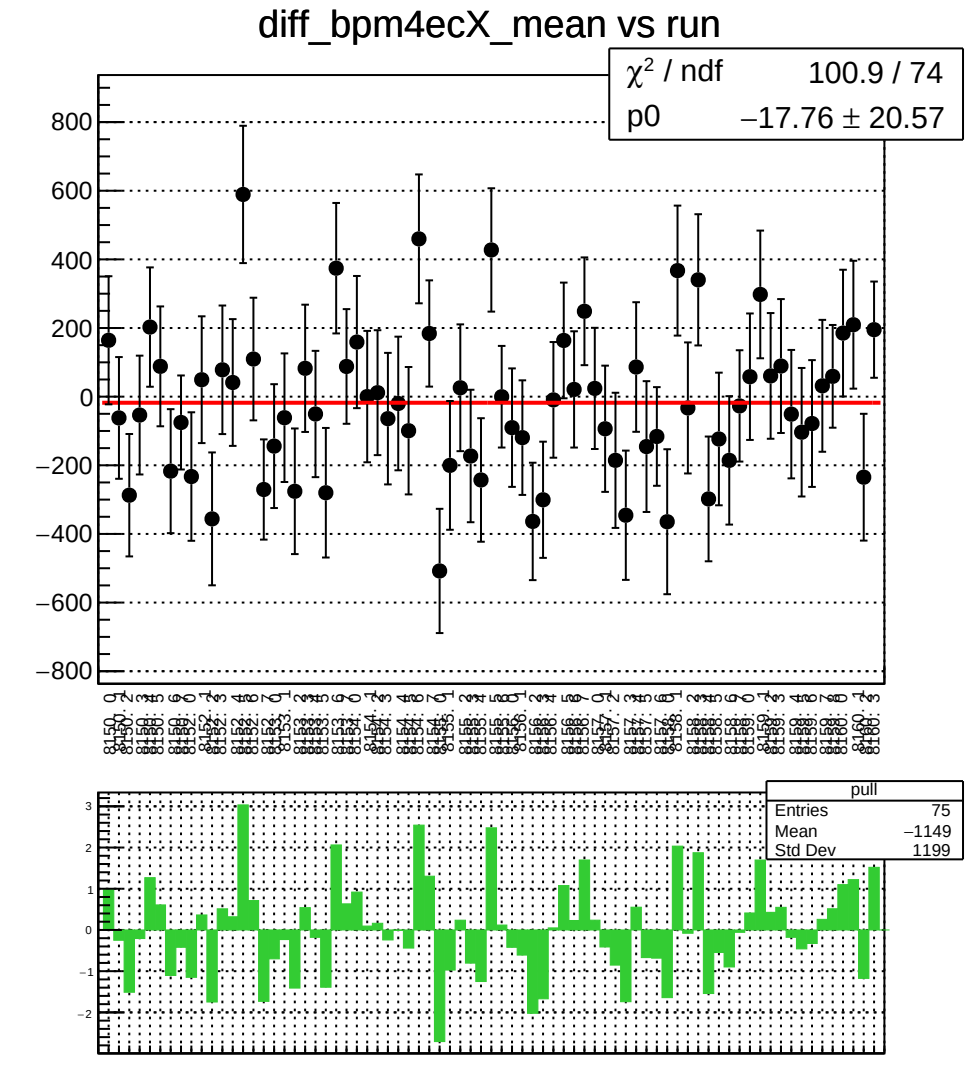

pull1D
Entries 75
Mean −0.0009973
Std Dev 1.155

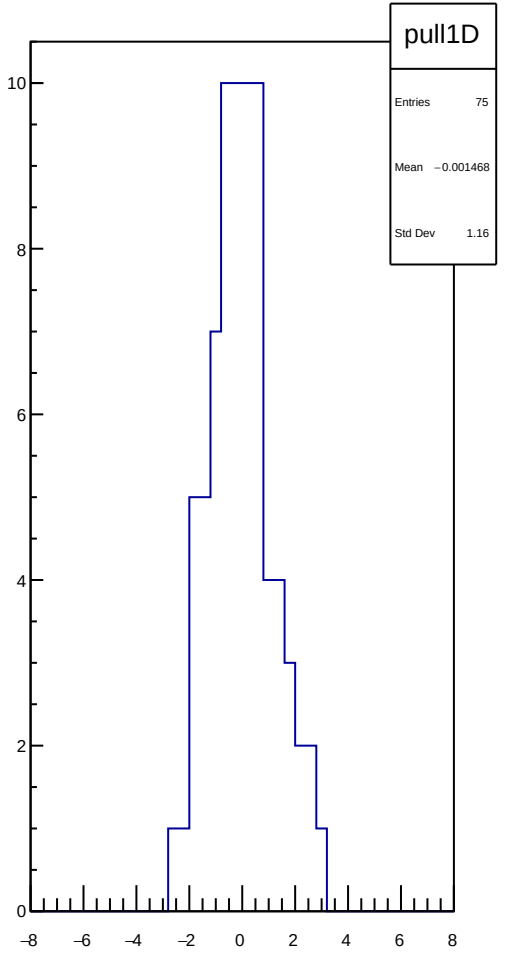

diff_bpm4acX_rms vs run
χ² / ndf 2700 / 74
p0 1.794e+04 ± 14.94
21000
20000
19000
18000
17000
16000

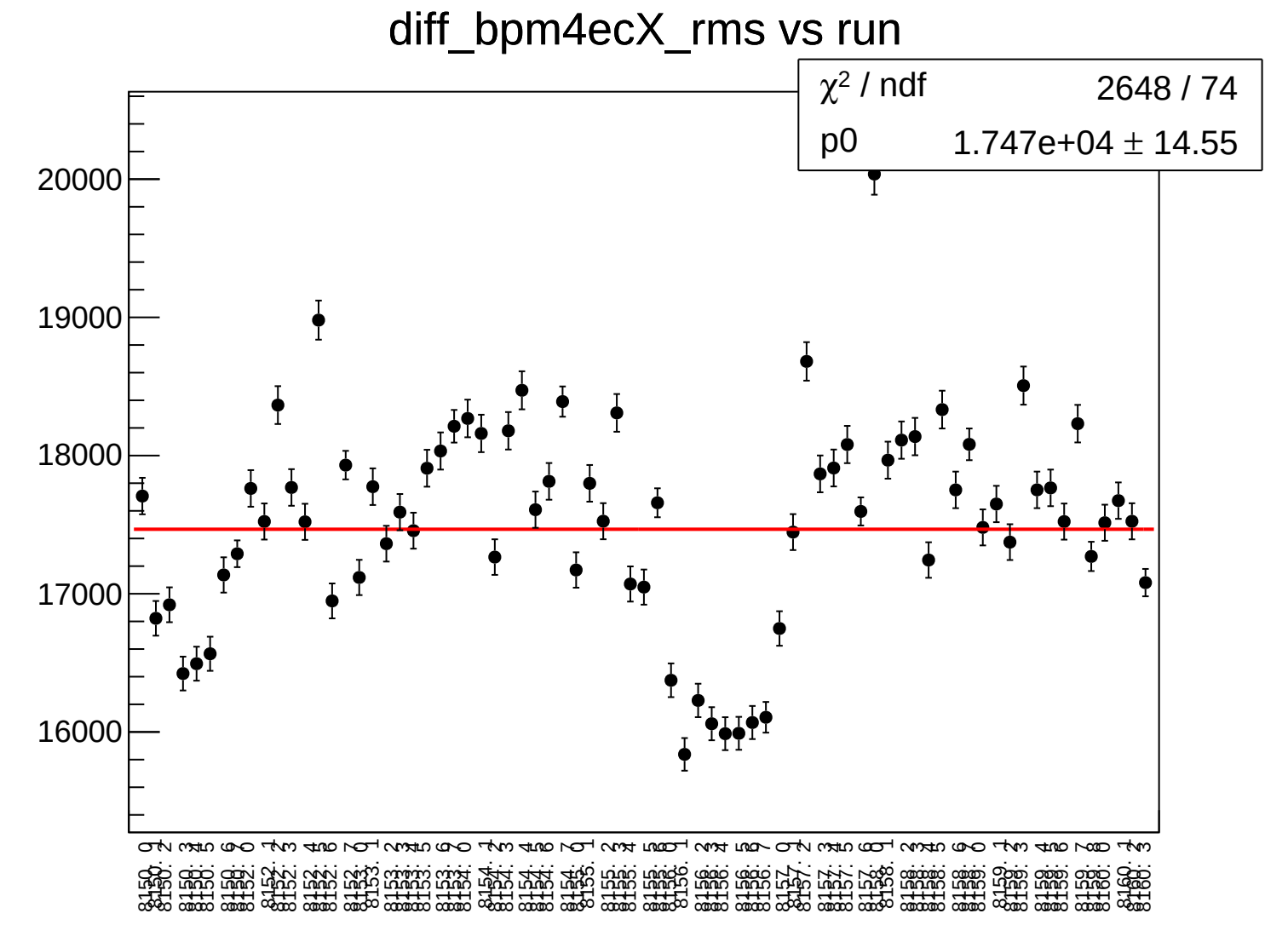

diff_bpm4acY_mean vs run
χ² / ndf 55.05 / 74
p0 7.89 ± 7.429
pull
Entries 75
Mean −799.5
Std Dev 820.3

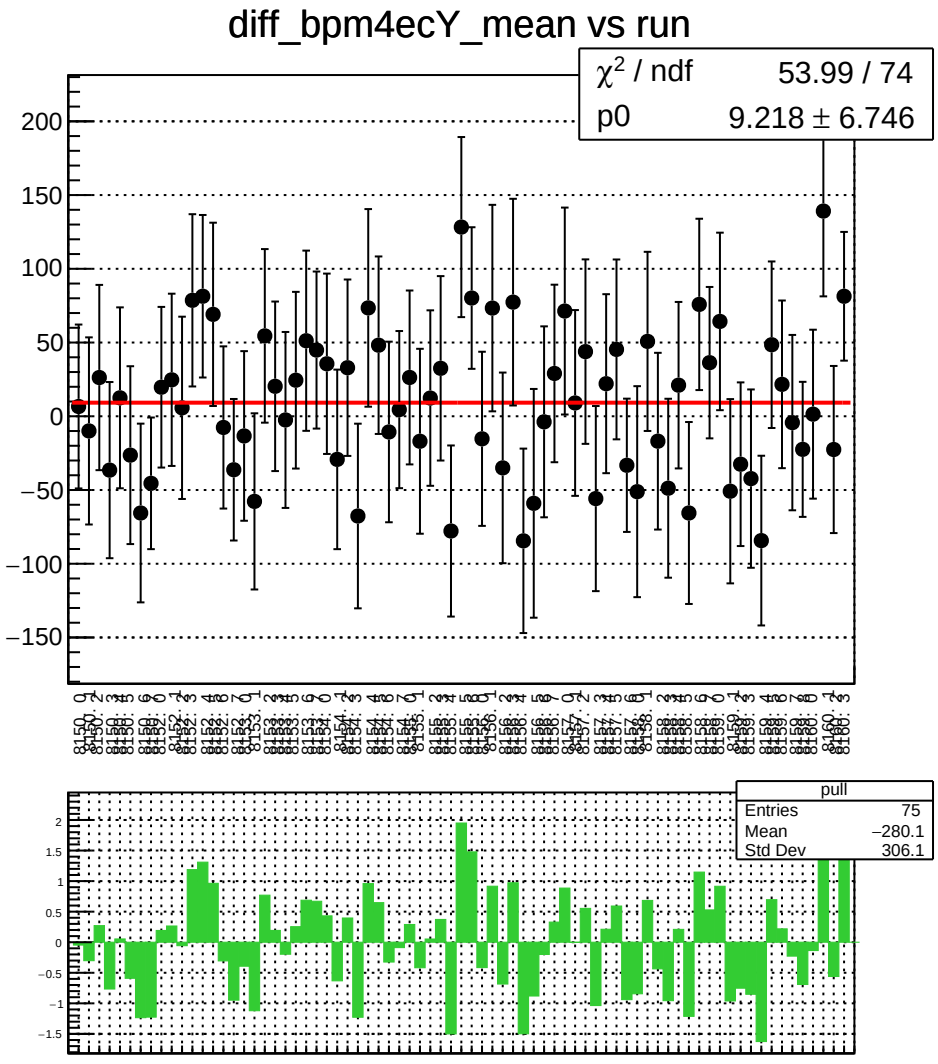

pull1D
Entries 75
Mean −0.0006503
Std Dev 0.8567

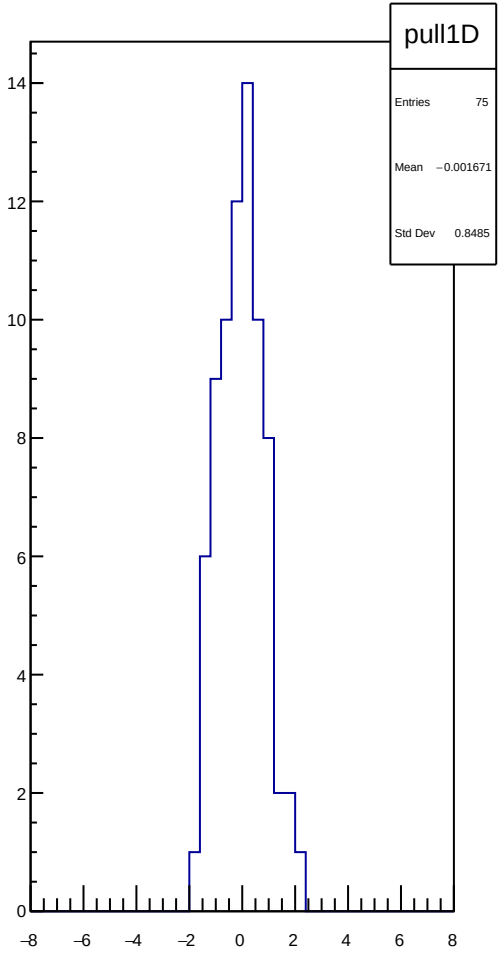

diff_bpm4acY_rms vs run
χ^2 / ndf 4922 / 74
p0 6303 ± 5.253
8000
7500
7000
6500
6000
5500

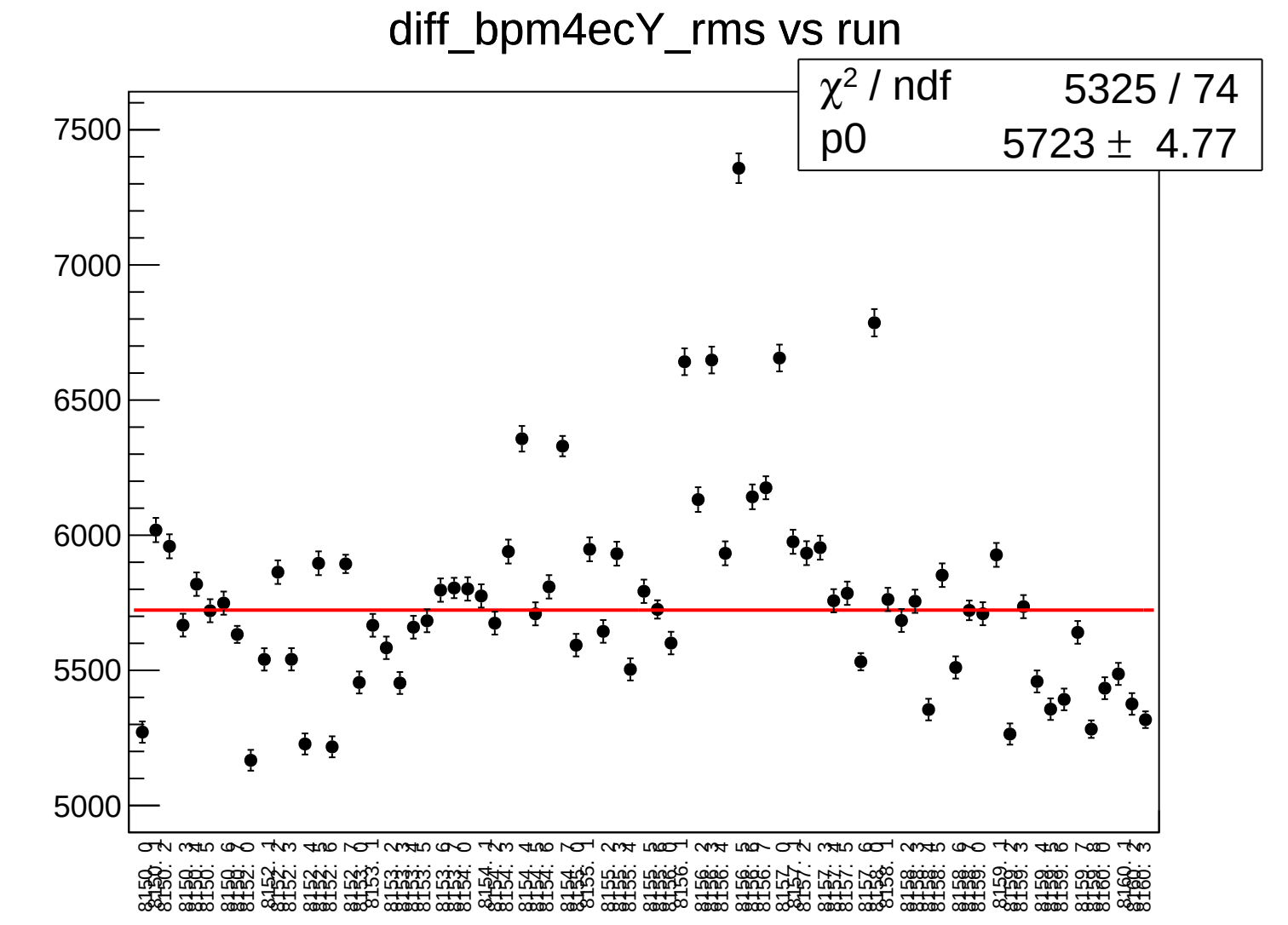

diff_bpm4ecX_mean vs run
χ² / ndf 100.9 / 74
p0 −17.76 ± 20.57
pull
Entries 75
Mean −1149
Std Dev 1199

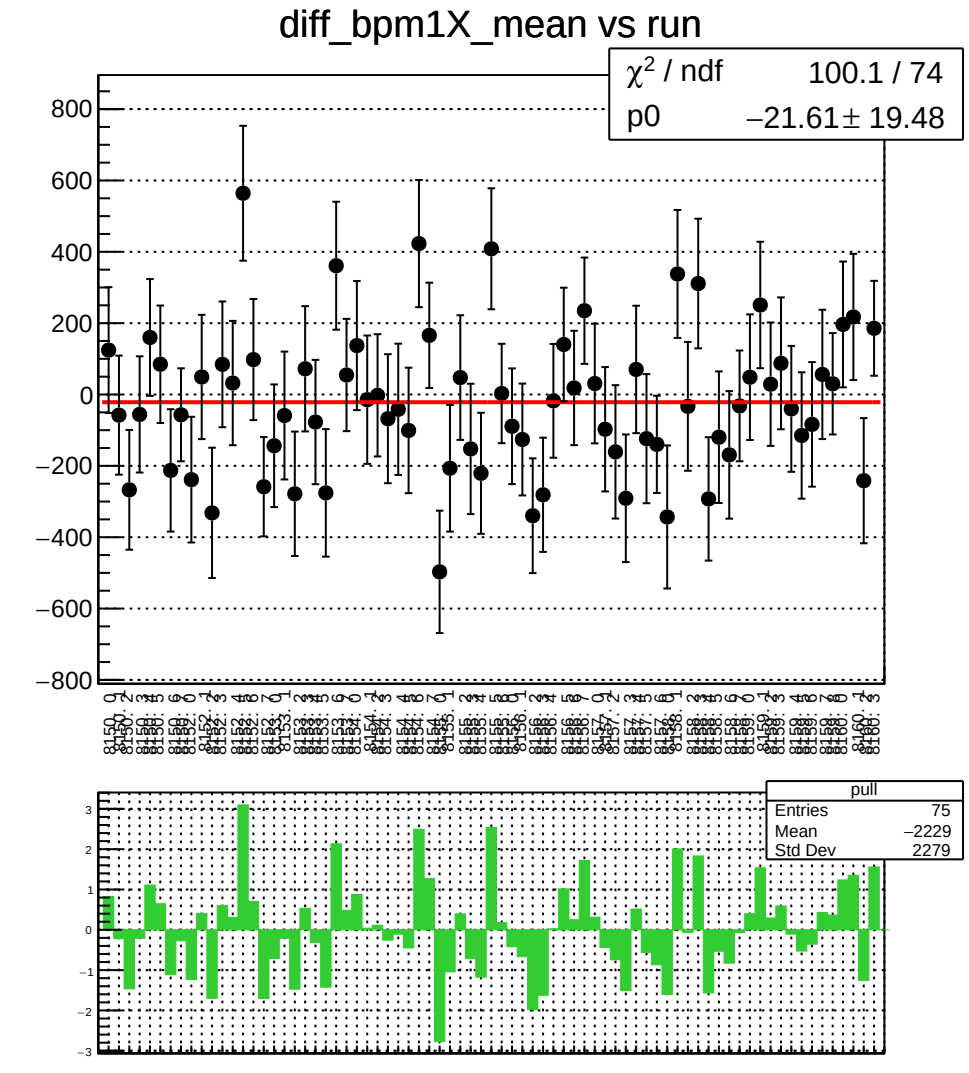

pull1D
Entries 75
Mean −0.001468
Std Dev 1.16

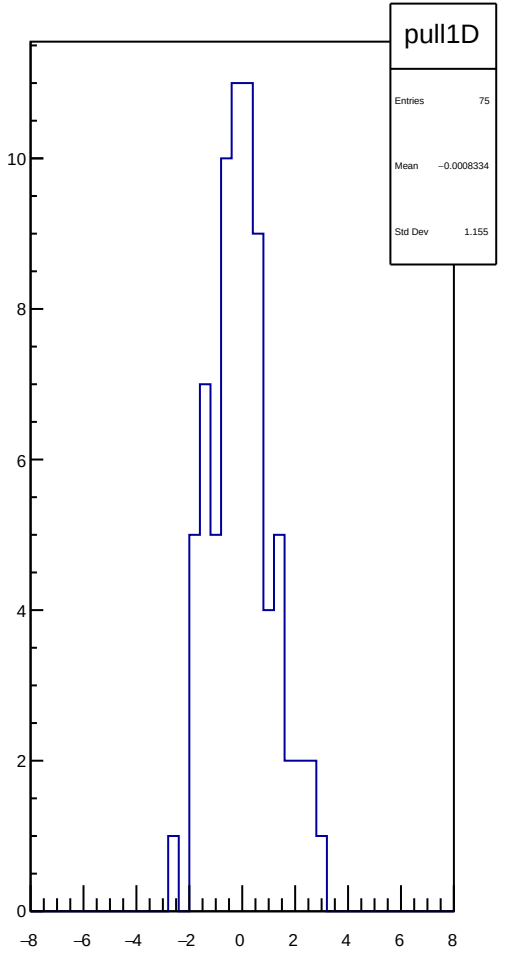

diff_bpm4ecX_rms vs run
χ² / ndf 2648 / 74
p0 1.747e+04 ± 14.55
20000
19000
18000
17000
16000

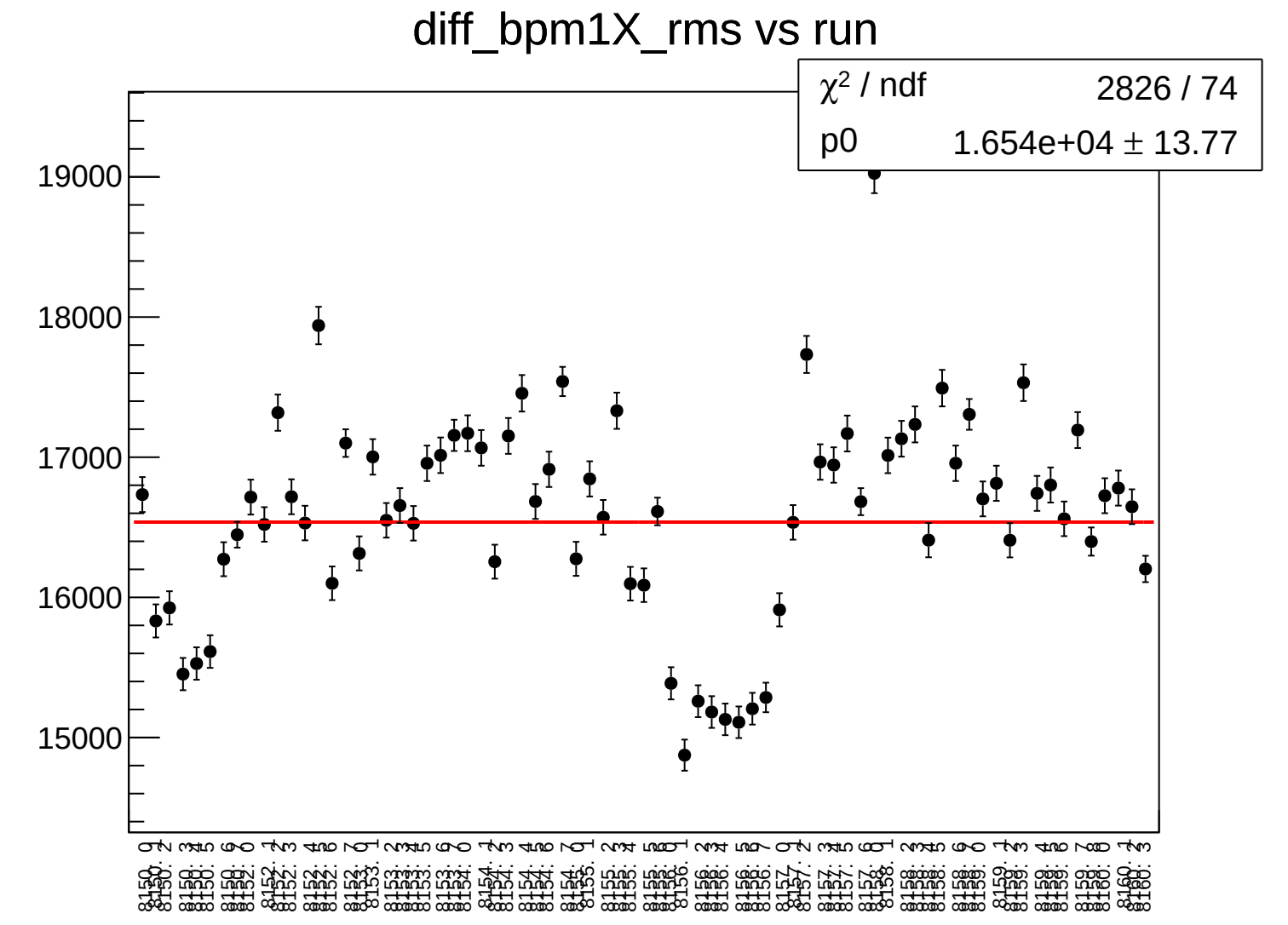

diff_bpm4ecY_mean vs run
χ^2 / ndf 53.99 / 74
p0 9.218 ± 6.746
pull
Entries 75
Mean −280.1
Std Dev 306.1

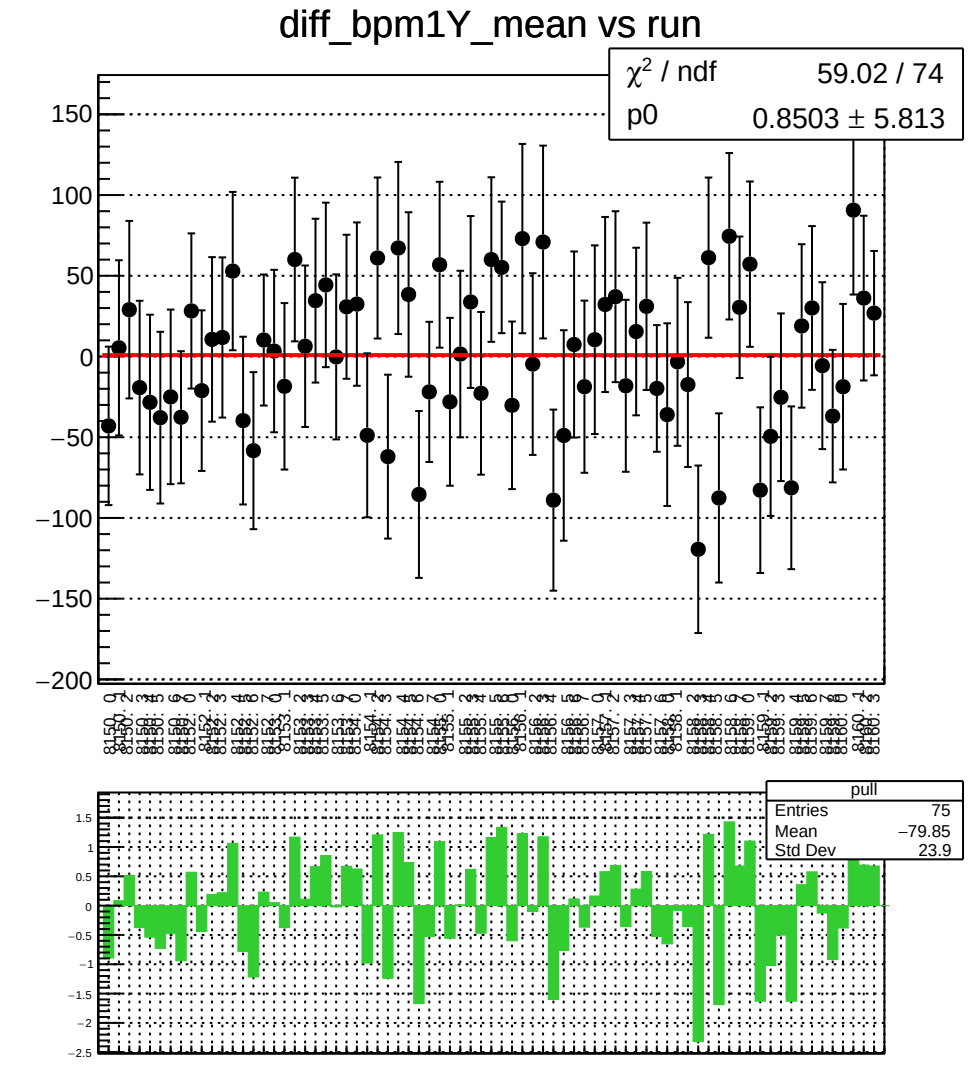

pull1D
Entries 75
Mean −0.001671
Std Dev 0.8485

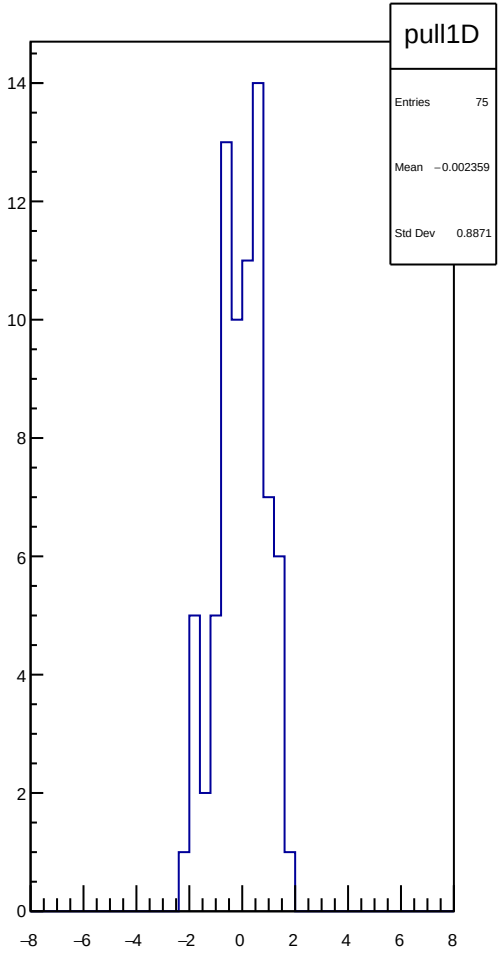

diff_bpm4ecY_rms vs run
χ² / ndf 5325 / 74
p0 5723 ± 4.77
7500
7000
6500
6000
5500
5000

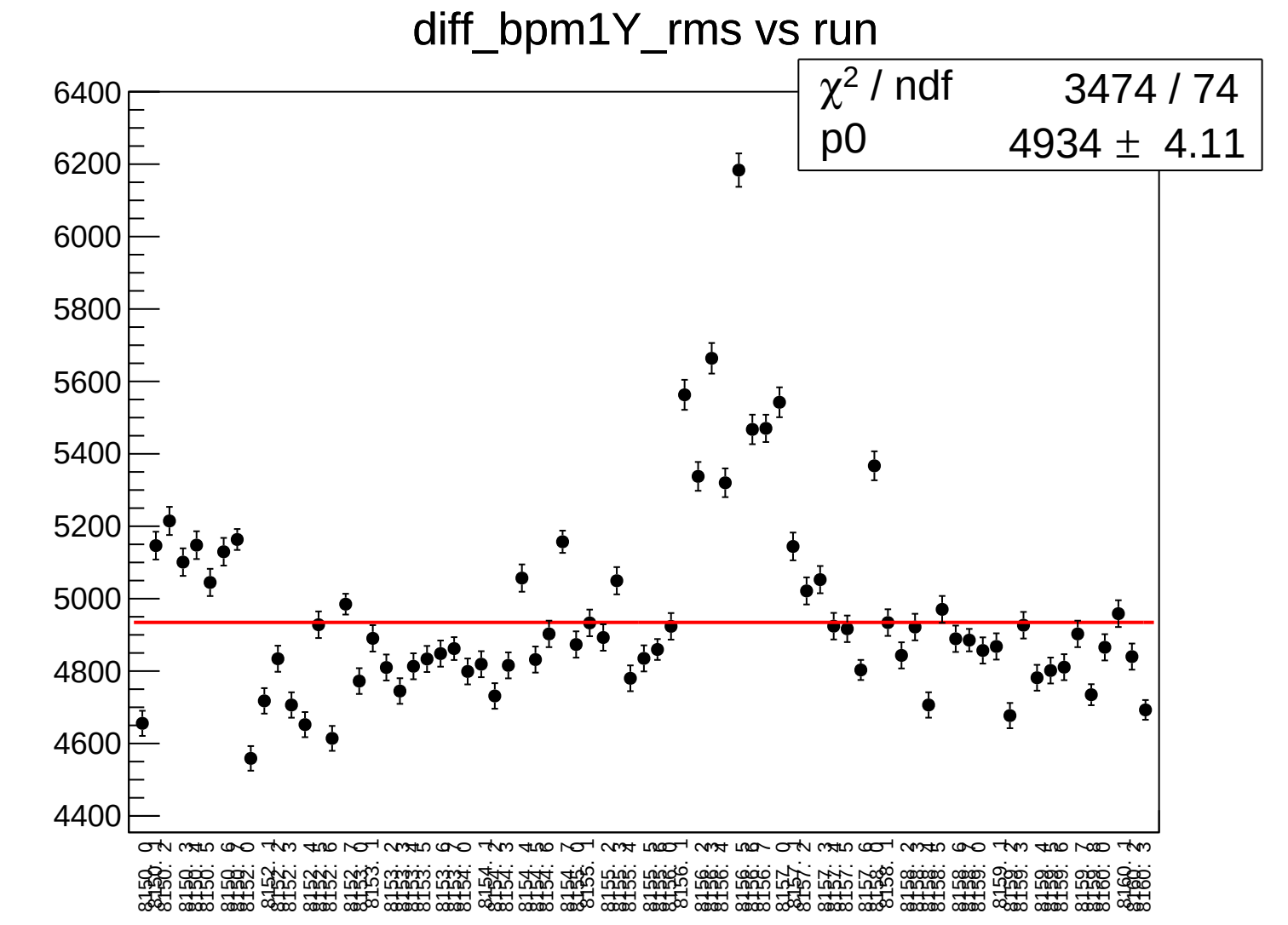

diff_bpm1X_mean vs run
χ² / ndf 100.1 / 74
p0 −21.61 ± 19.48
pull
Entries 75
Mean −2229
Std Dev 2279

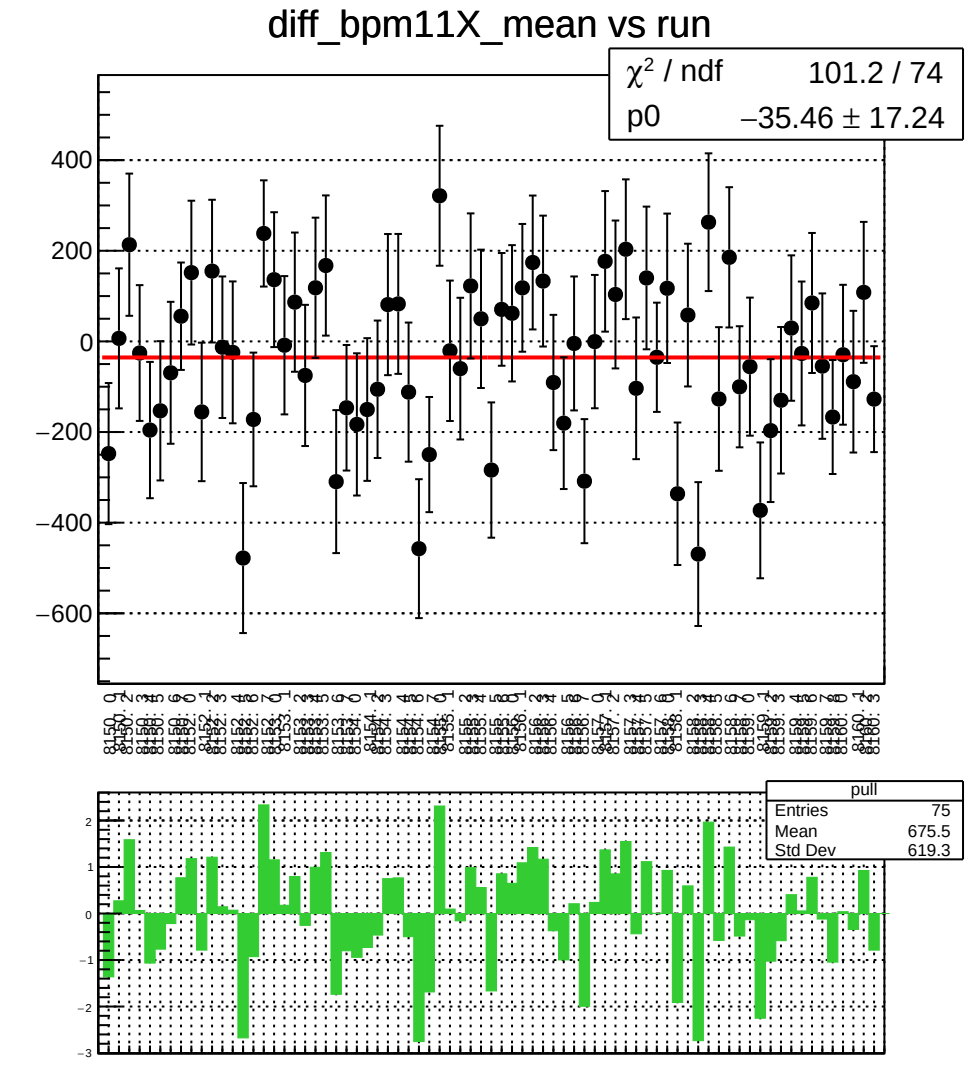

pull1D
Entries 75
Mean −0.0008334
Std Dev 1.155

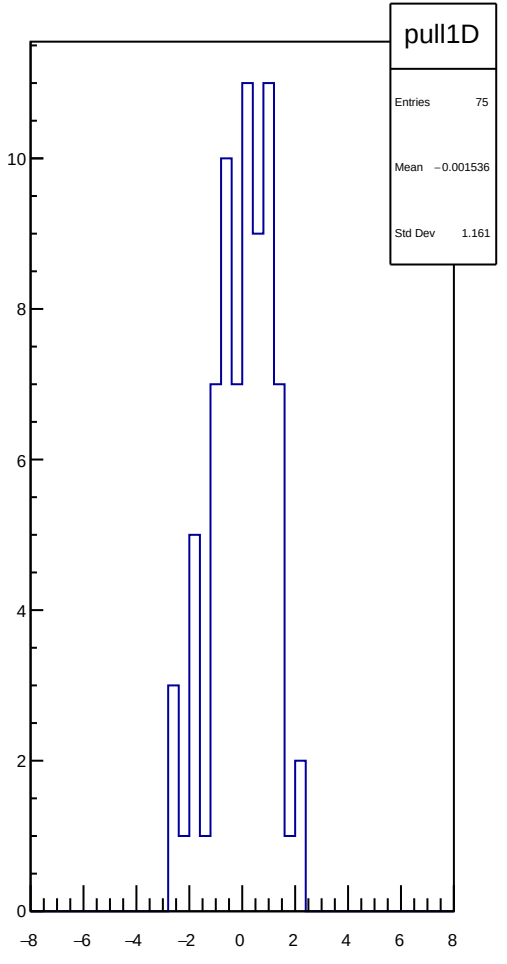

diff_bpm1X_rms vs run
χ² / ndf 2826 / 74
p0 1.654e+04 ± 13.77
19000
18000
17000
16000
15000

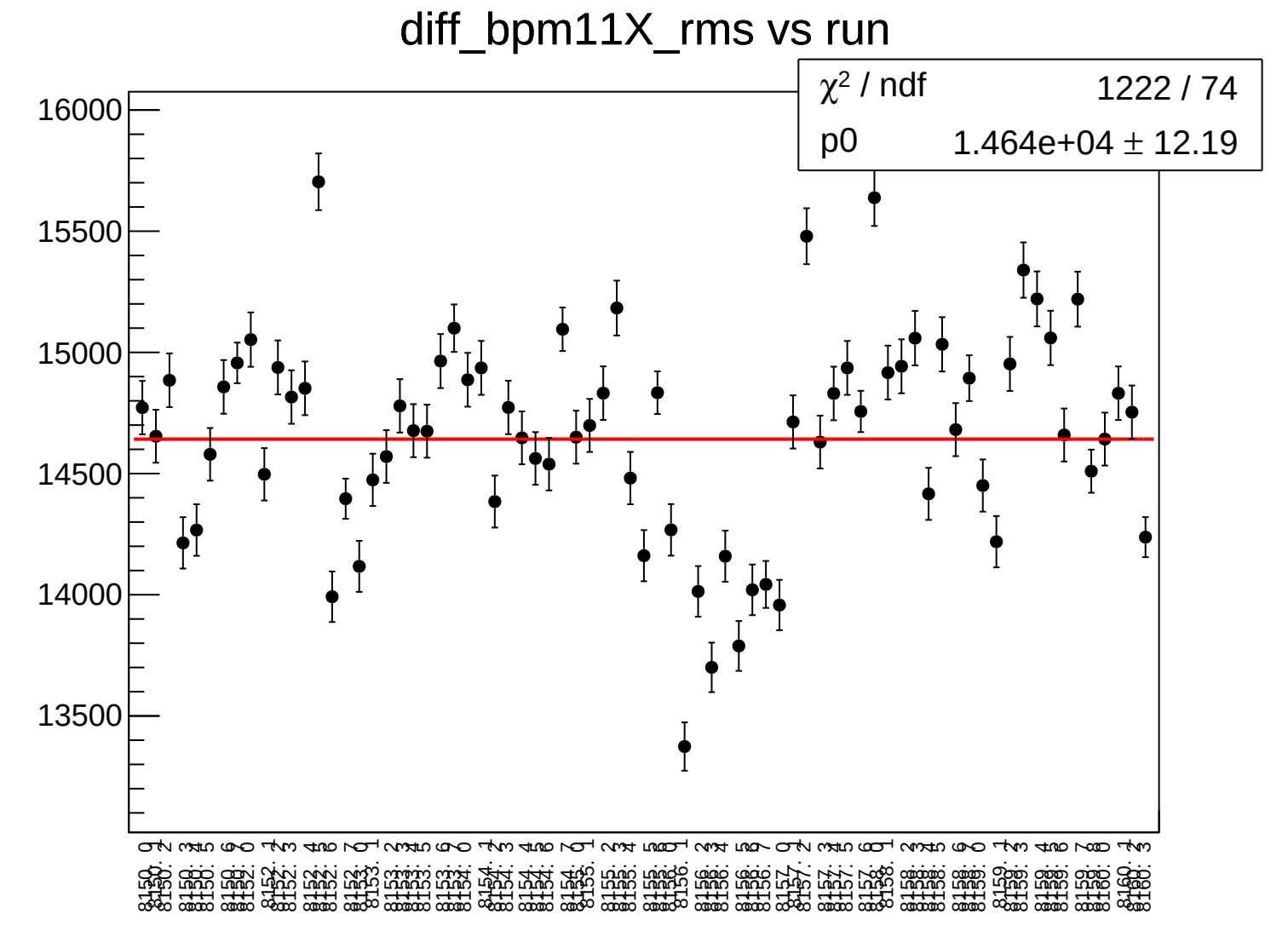

diff_bpm1Y_mean vs run
χ² / ndf 59.02 / 74
p0 0.8503 ± 5.813
pull
Entries 75
Mean −79.85
Std Dev 23.9

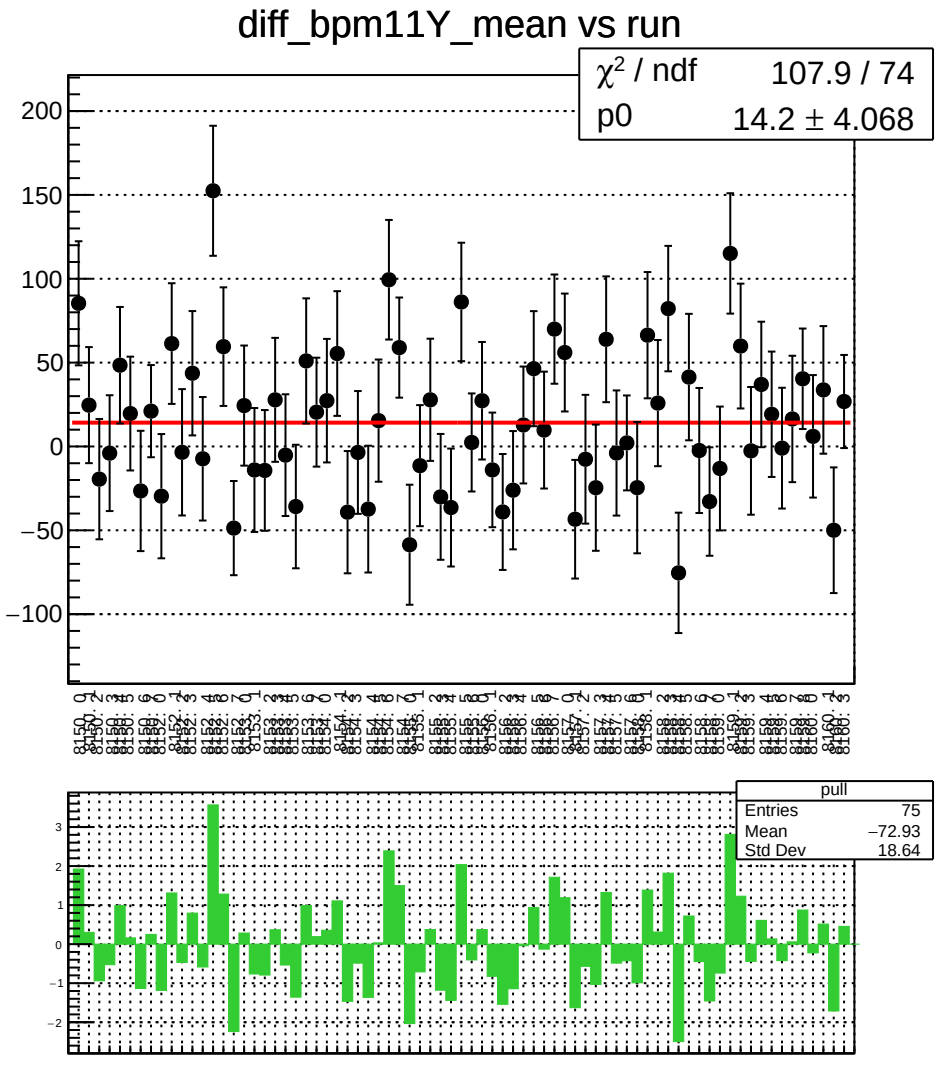

pull1D
Entries 75
Mean −0.002359
Std Dev 0.8871

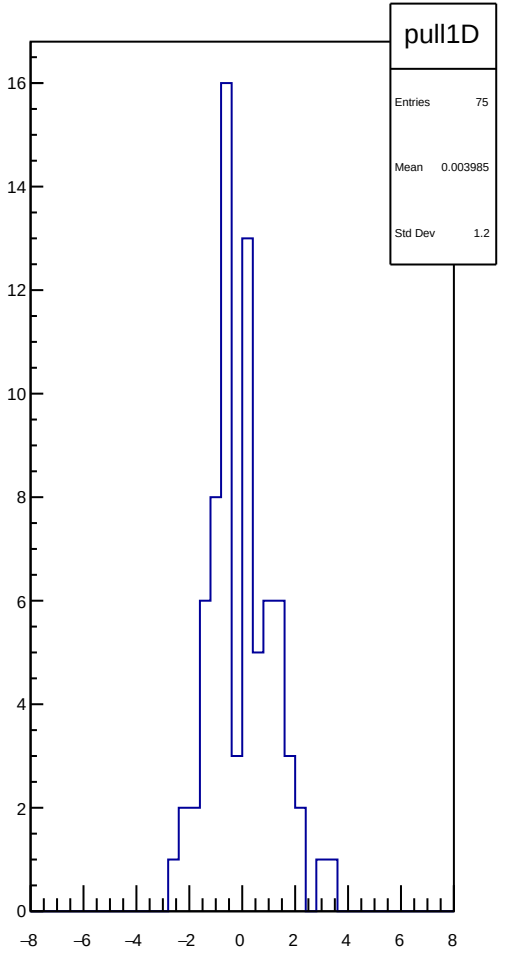

diff_bpm1Y_rms vs run
χ² / ndf 3474 / 74
p0 4934 ± 4.11
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

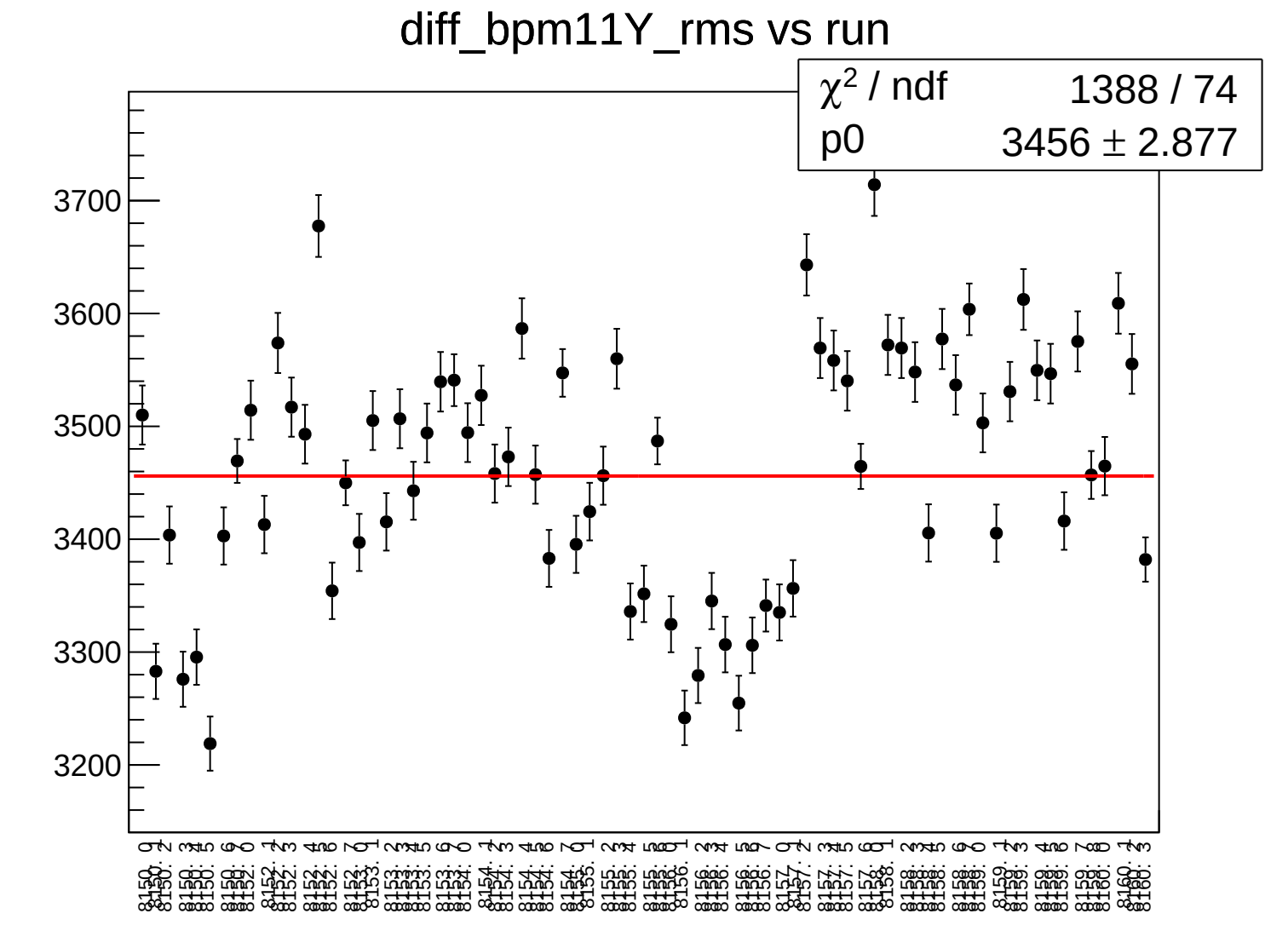

diff_bpm11X_mean vs run
χ² / ndf 101.2 / 74
p0 −35.46 ± 17.24
400
200
0
−200
−400
−600
pull
Entries 75
Mean 675.5
Std Dev 619.3
2
1
0
−1
−2
−3

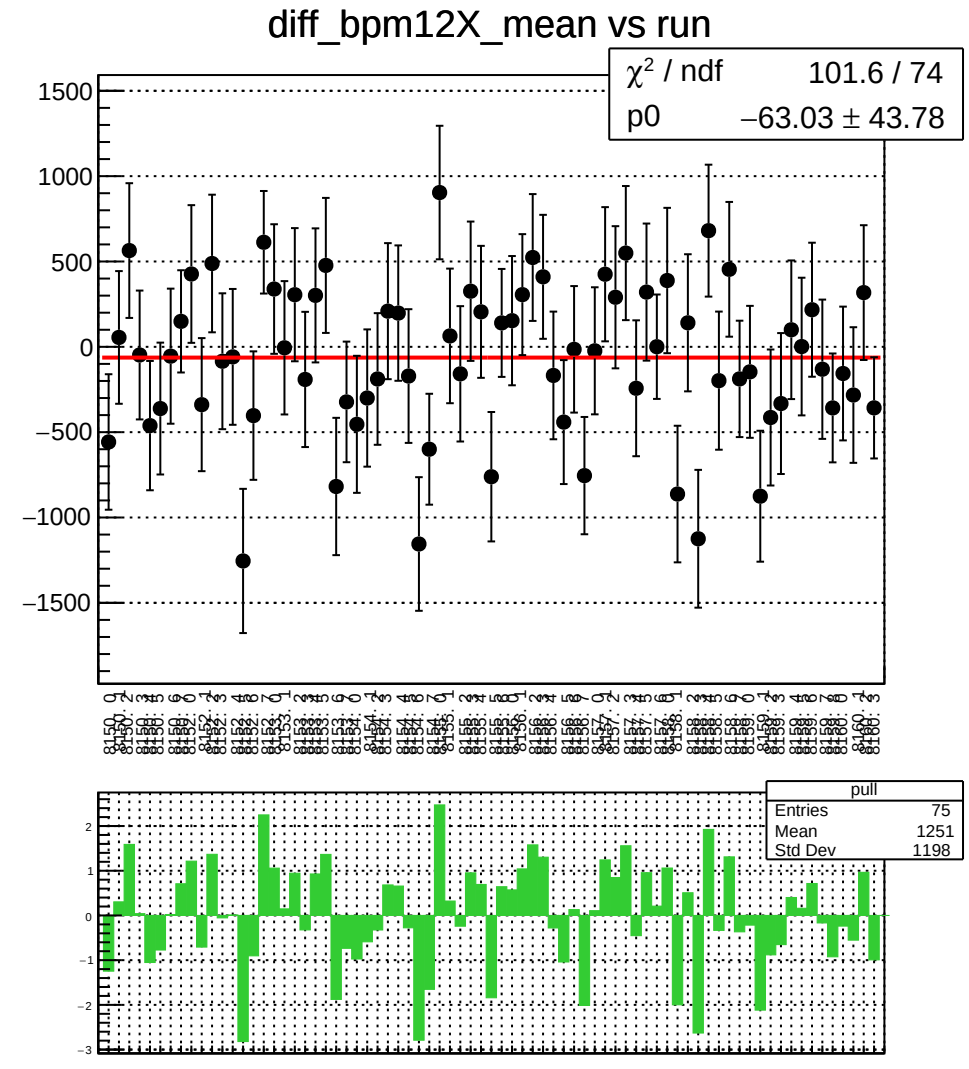

pull1D
Entries 75
Mean −0.001536
Std Dev 1.161
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

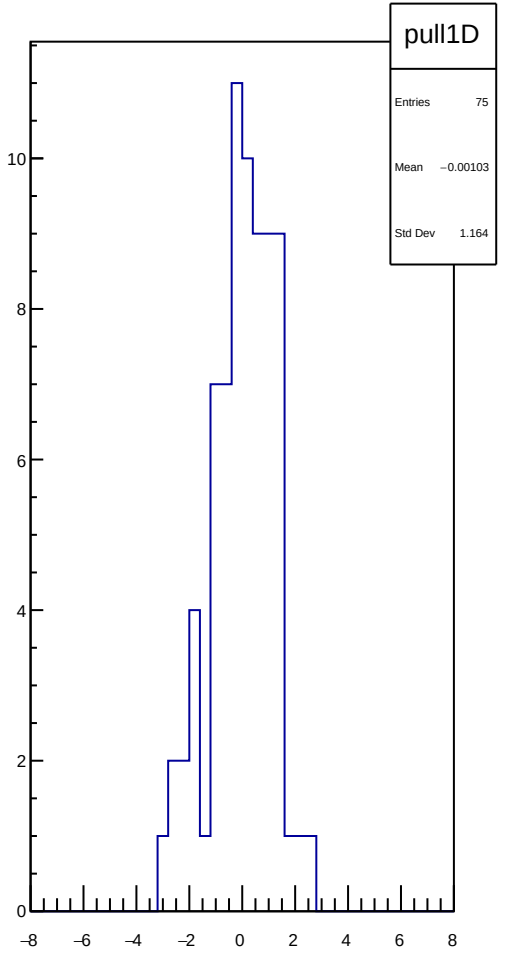

diff_bpm11X_rms vs run
χ² / ndf 1222 / 74
p0 1.464e+04 ± 12.19
16000
15500
15000
14500
14000
13500

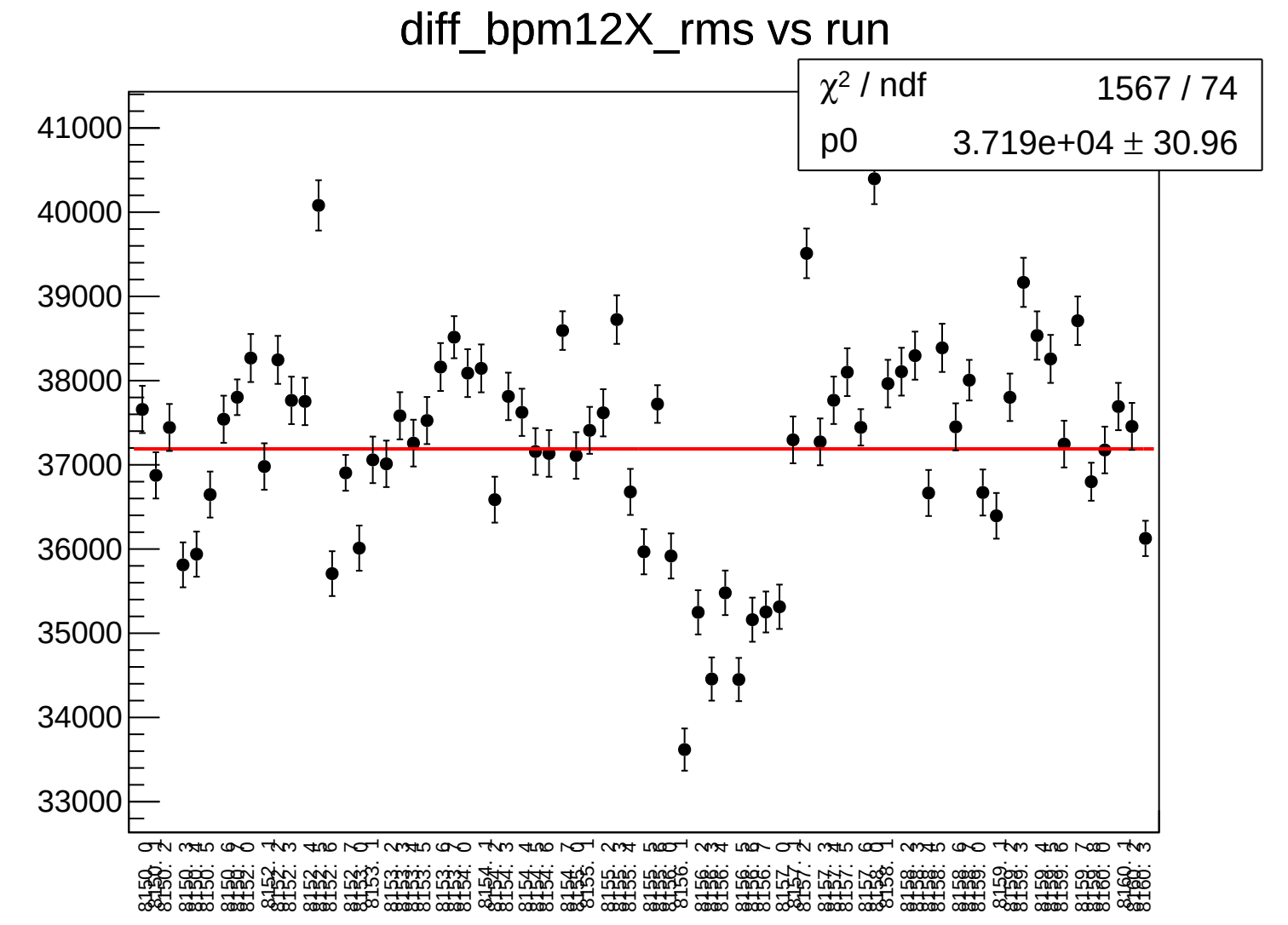

diff_bpm11Y_mean vs run
χ² / ndf 107.9 / 74
p0 14.2 ± 4.068
pull
Entries 75
Mean −72.93
Std Dev 18.64

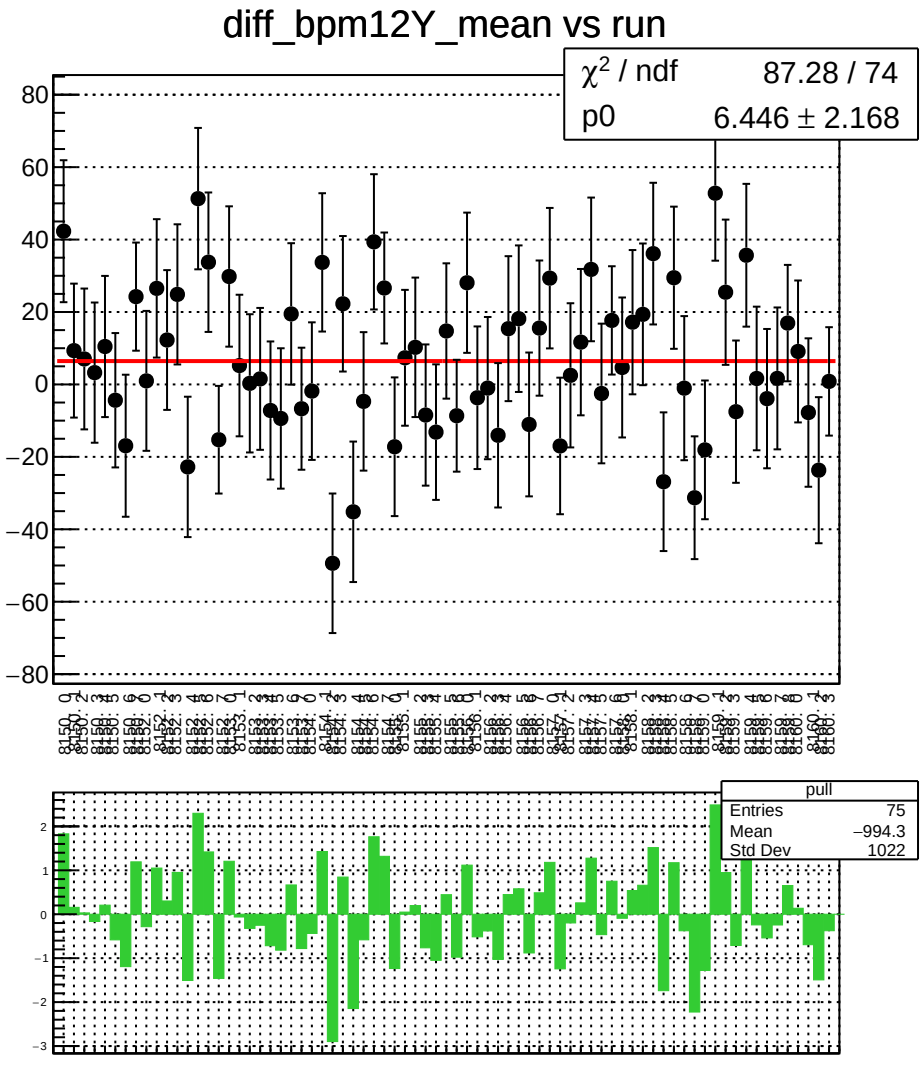

pull1D
Entries 75
Mean 0.003985
Std Dev 1.2

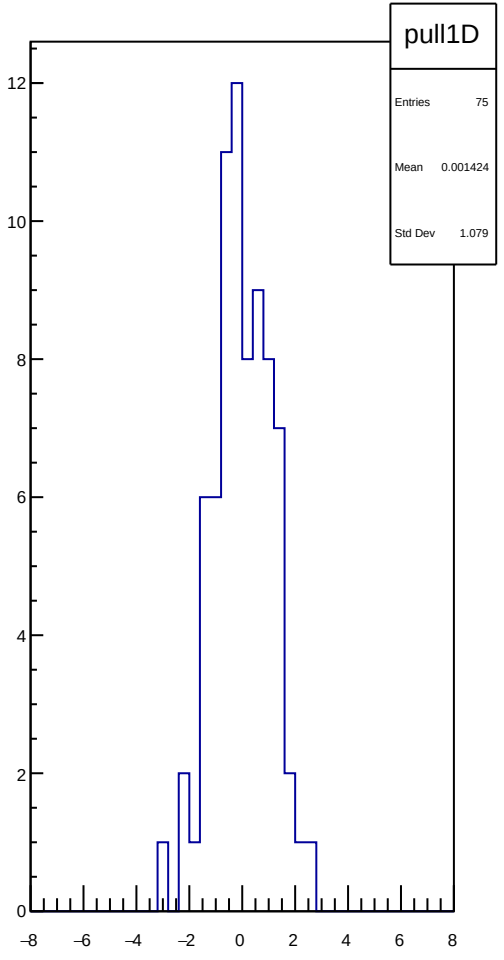

diff_bpm11Y_rms vs run
χ² / ndf 1388 / 74
p0 3456 ± 2.877
3700
3600
3500
3400
3300
3200

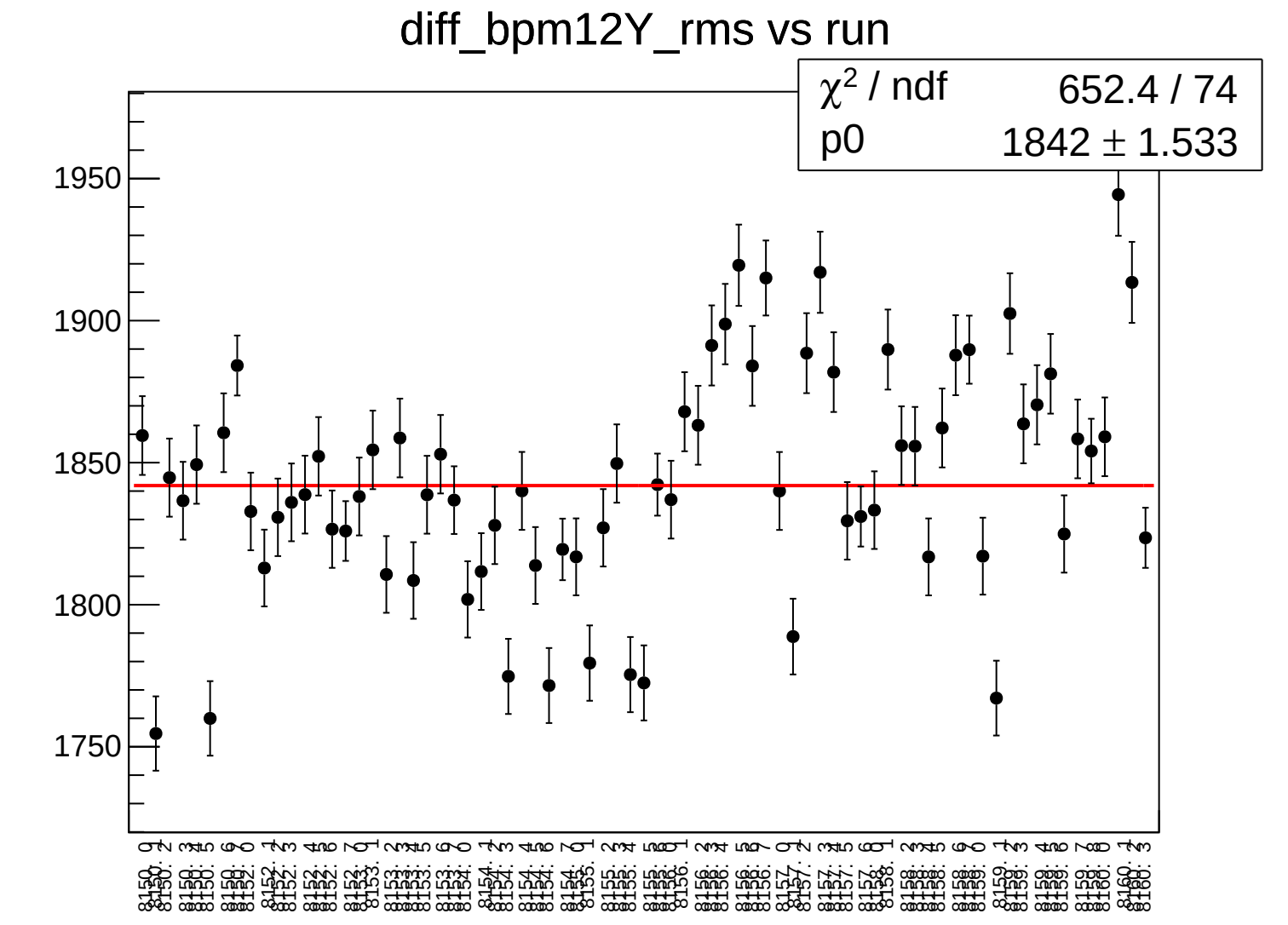

diff_bpm12X_mean vs run
χ² / ndf 101.6 / 74
p0 −63.03 ± 43.78
pull
Entries 75
Mean 1251
Std Dev 1198

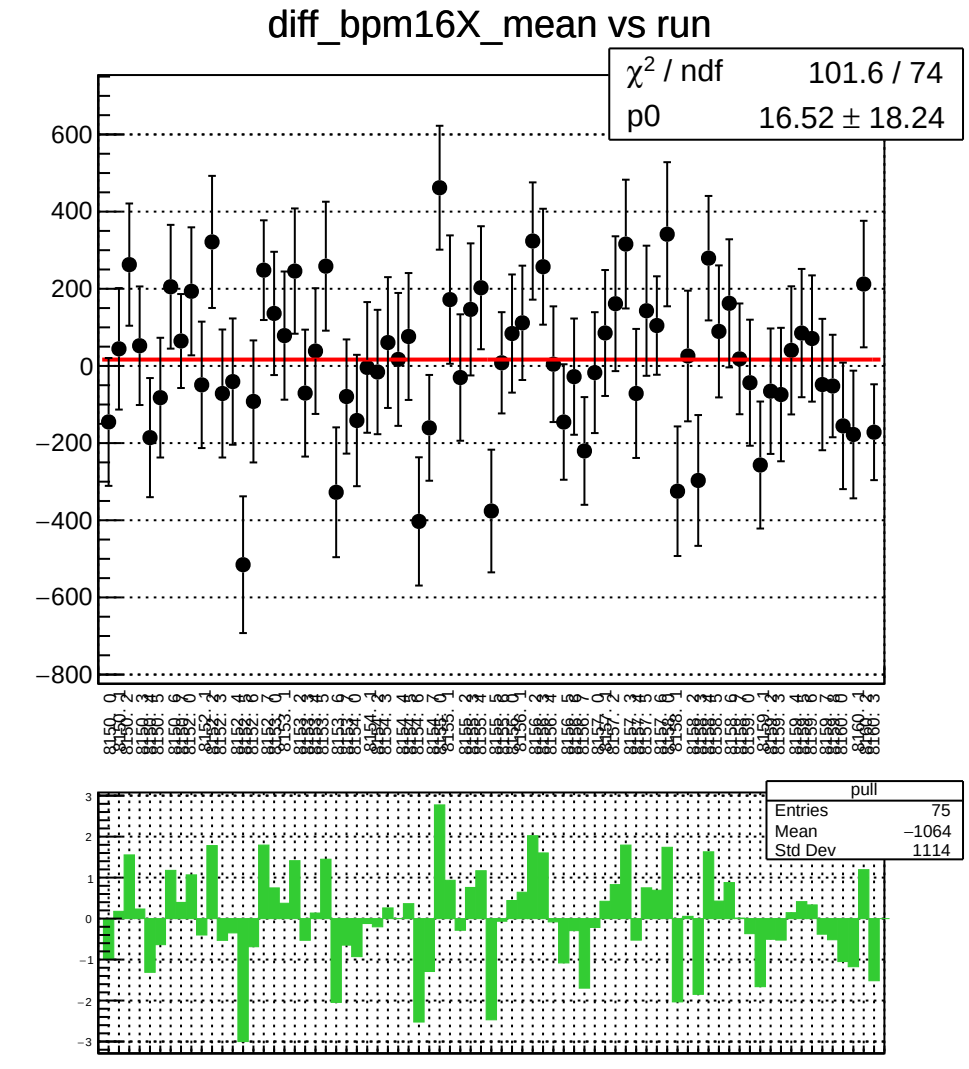

pull1D
Entries 75
Mean −0.00103
Std Dev 1.164

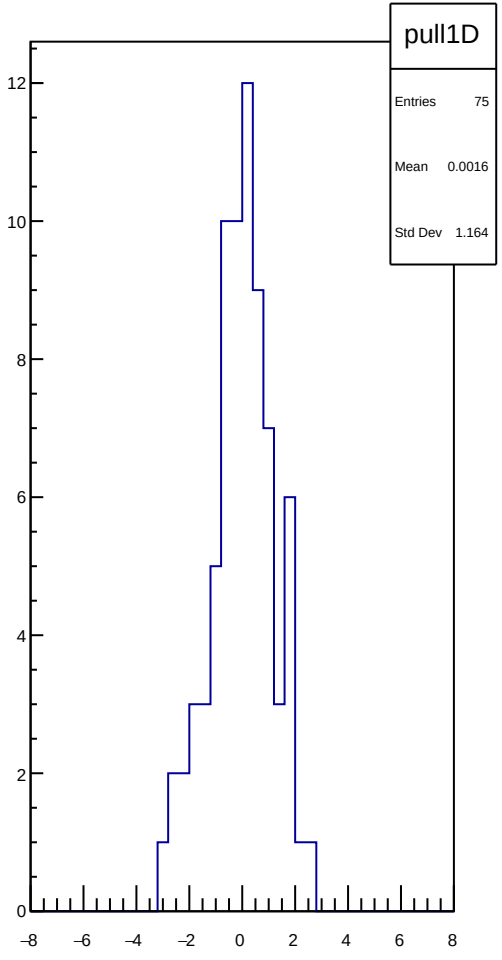

diff_bpm12X_rms vs run
χ² / ndf 1567 / 74
p0 3.719e+04 ± 30.96
41000
40000
39000
38000
37000
36000
35000
34000
33000


diff_bpm12Y_mean vs run
χ² / ndf 87.28 / 74
p0 6.446 ± 2.168
pull
Entries 75
Mean −994.3
Std Dev 1022

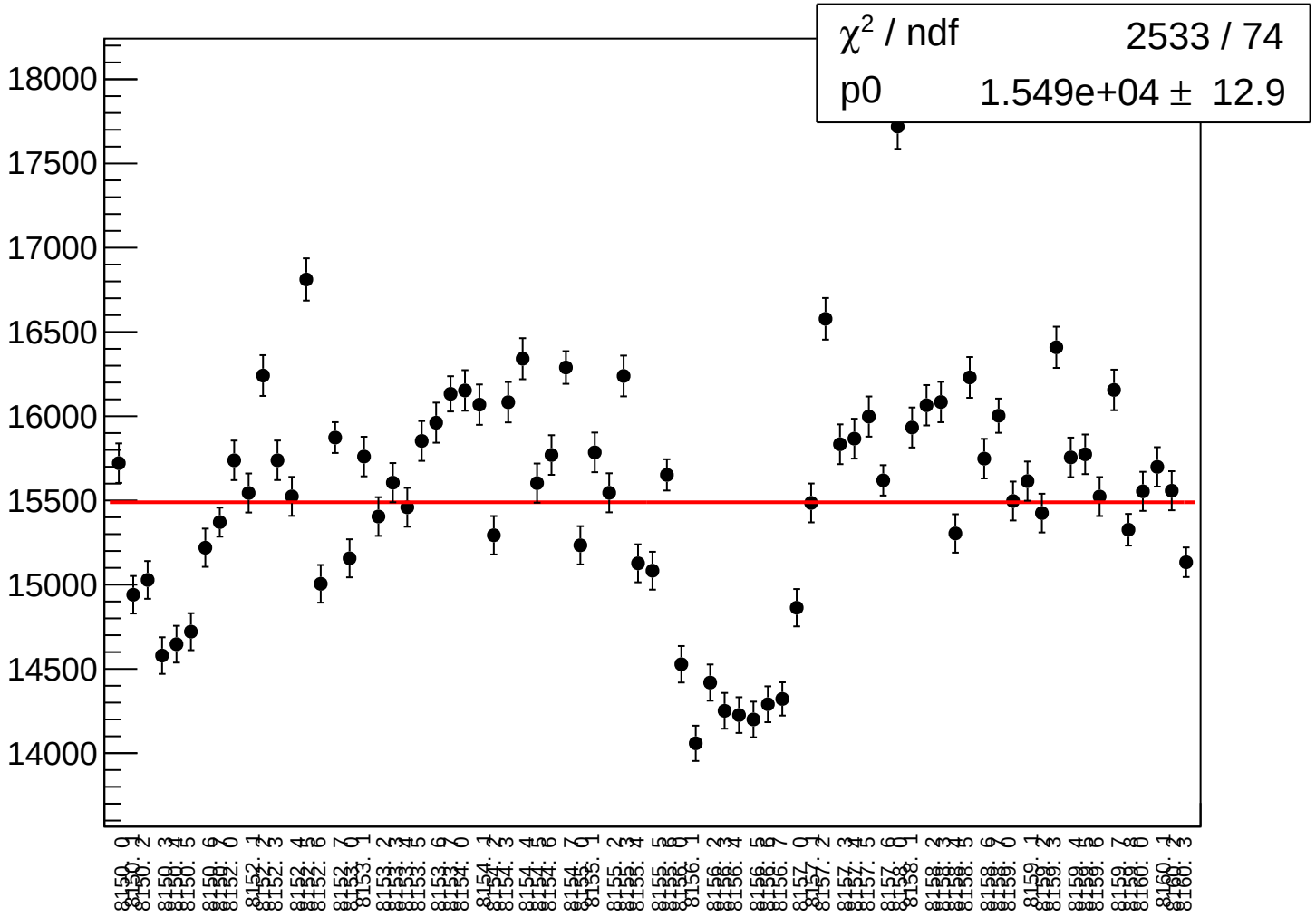

pull1D
Entries 75
Mean 0.001424
Std Dev 1.079

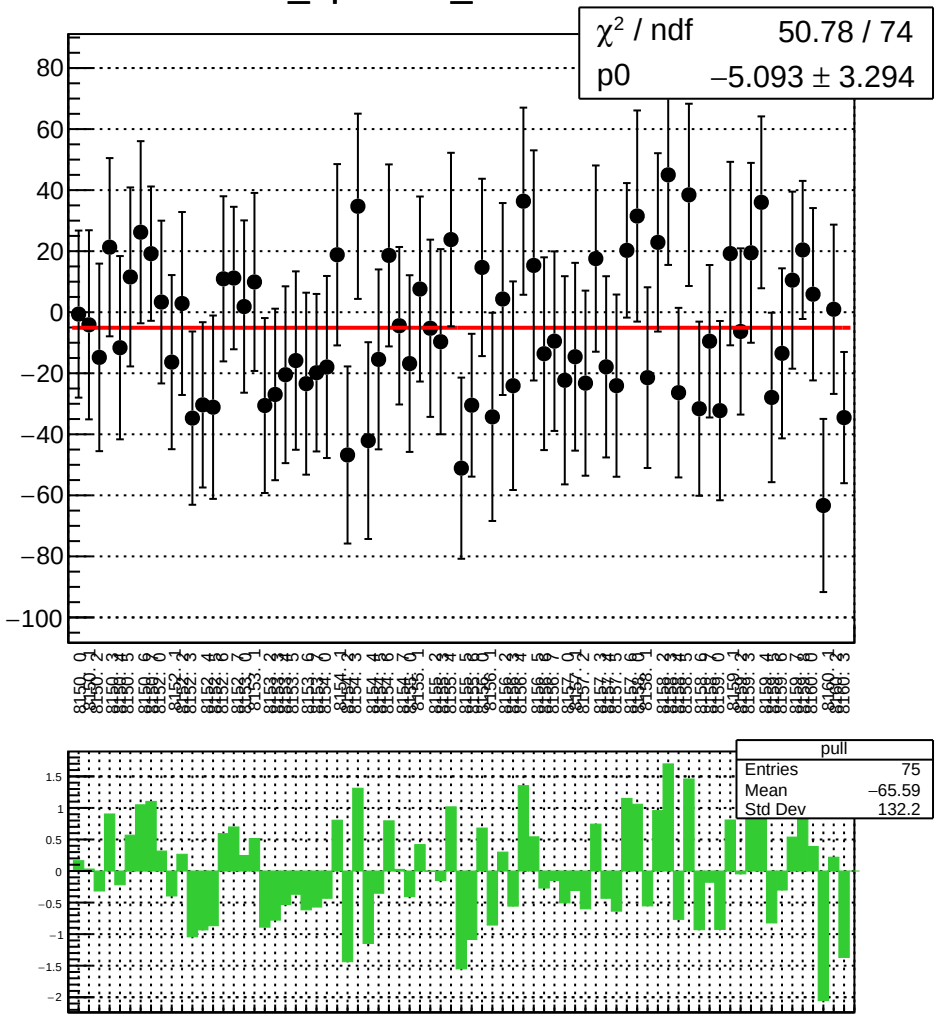

diff_bpm12Y_rms vs run
χ² / ndf 652.4 / 74
p0 1842 ± 1.533
1950
1900
1850
1800
1750

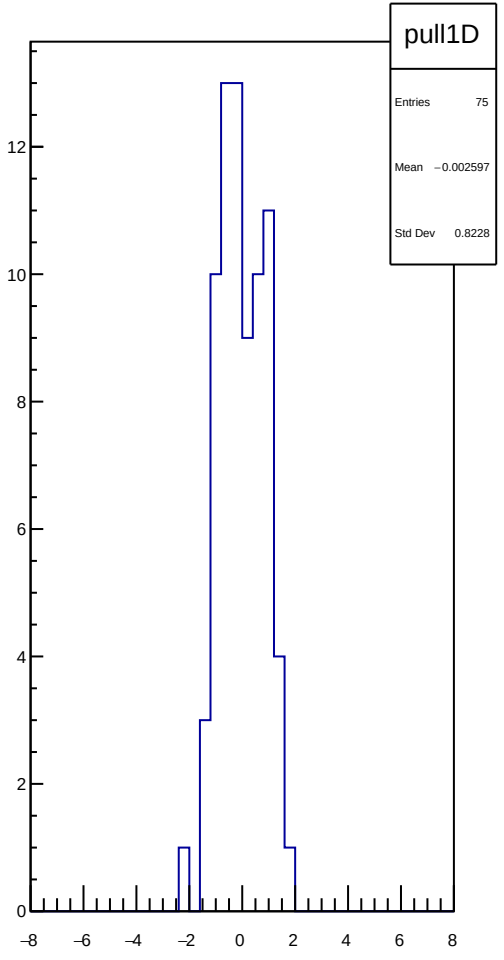

diff_bpm16X_mean vs run
χ^2 / ndf 101.6 / 74
p0 16.52 ± 18.24
pull
Entries 75
Mean −1064
Std Dev 1114

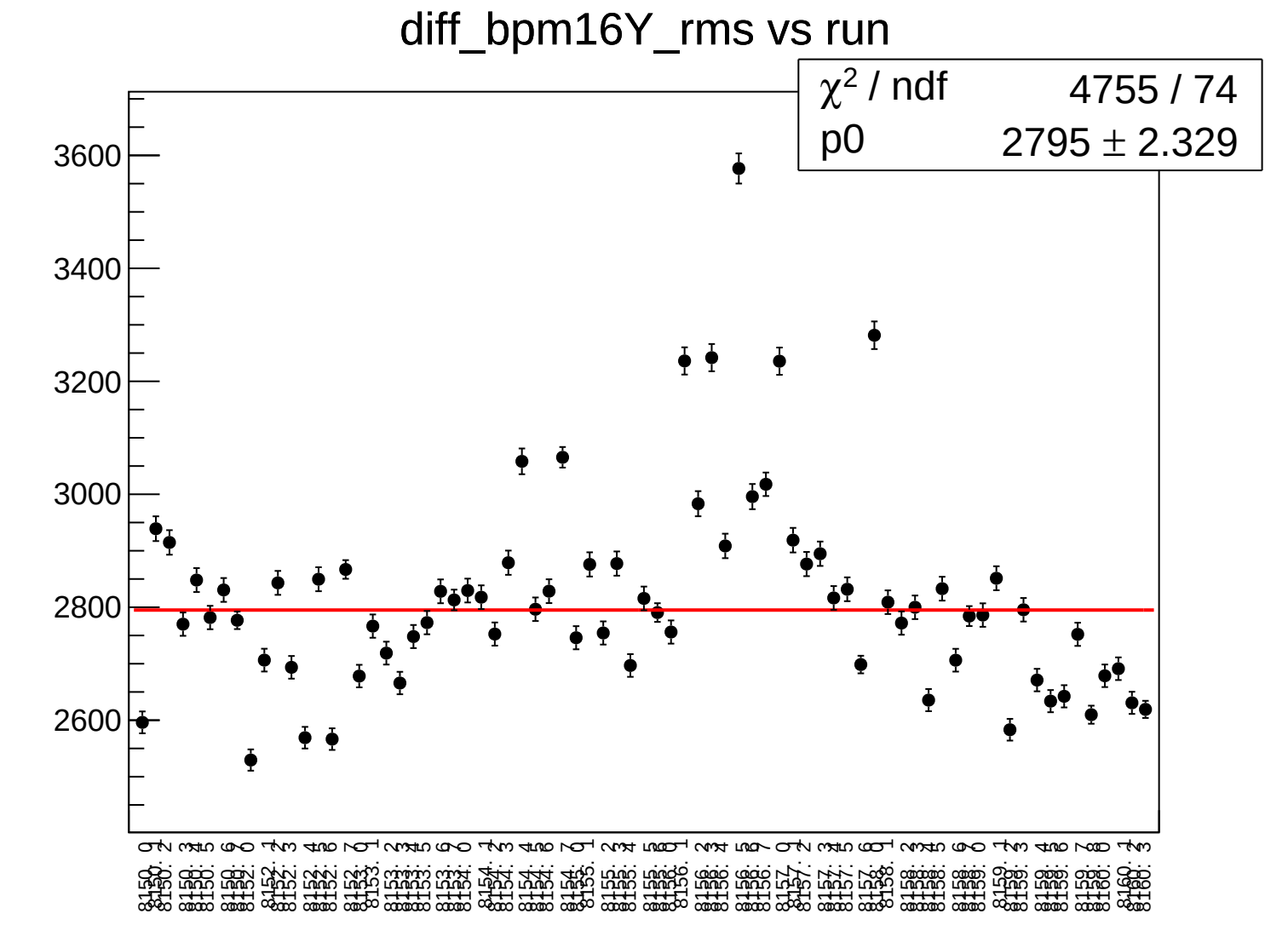

pull1D
Entries 75
Mean 0.0016
Std Dev 1.164

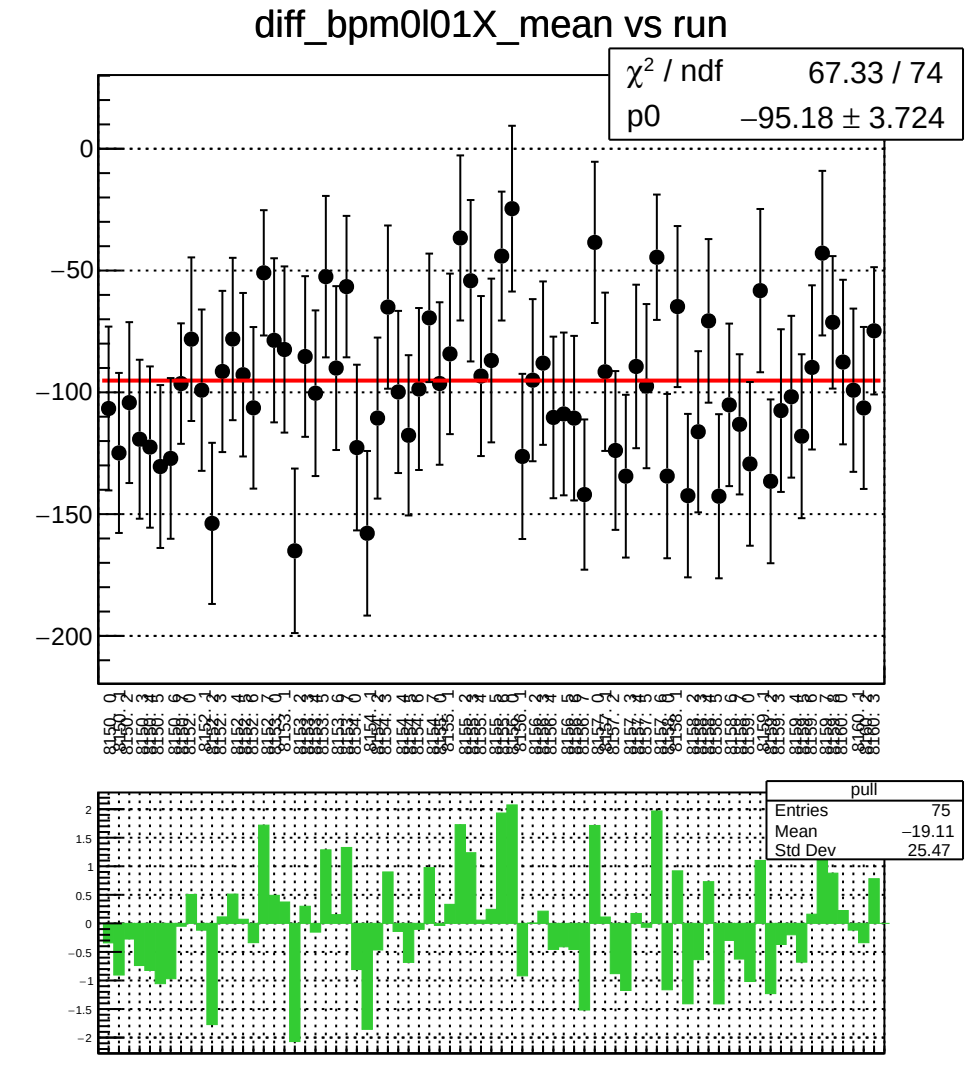
diff_bpm16X_rms vs run

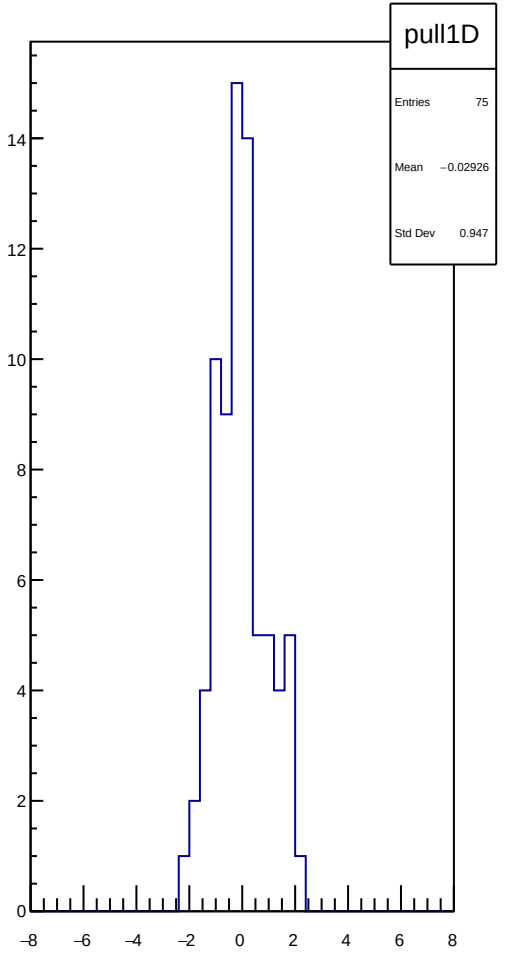


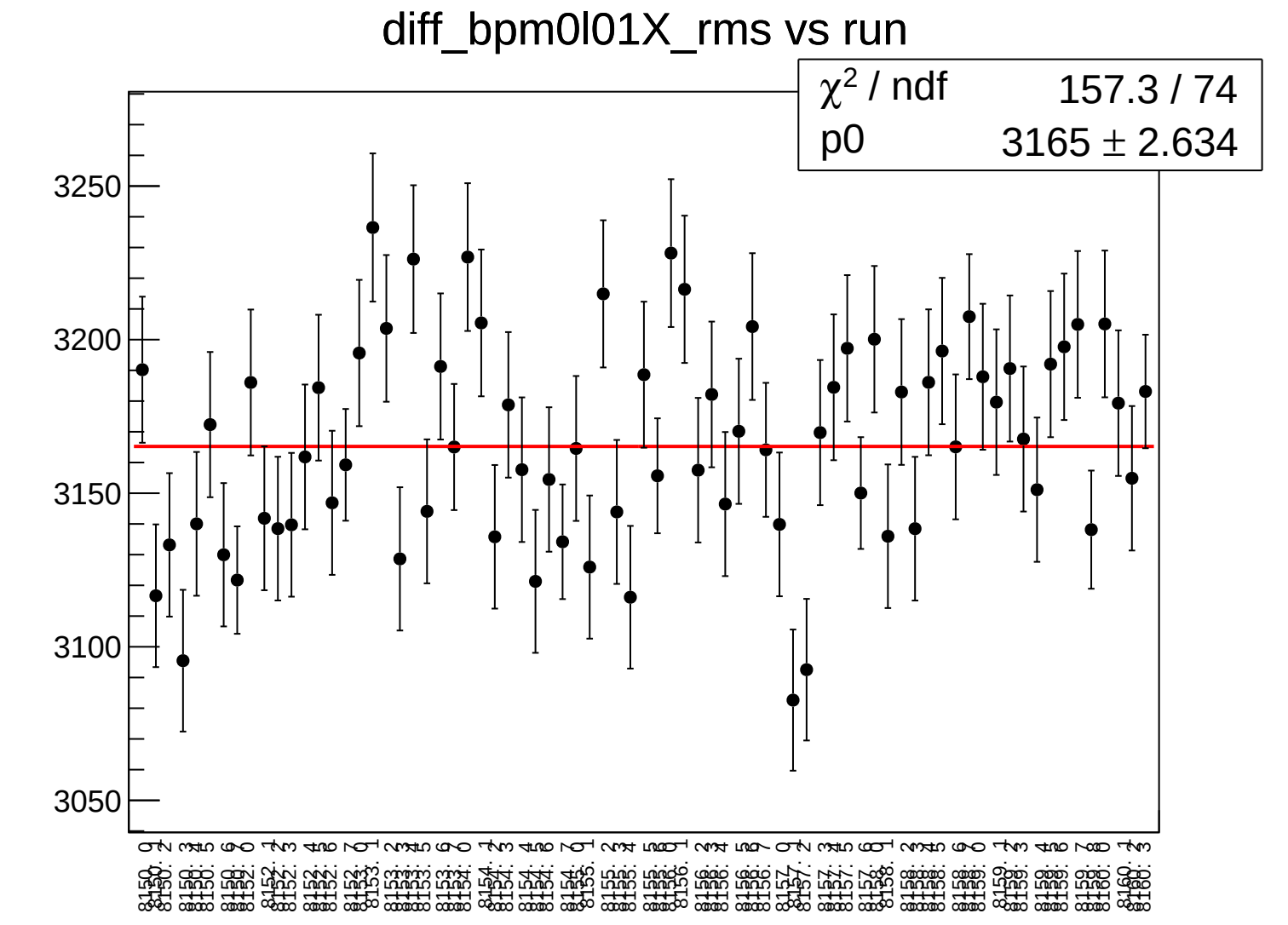

diff_bpm16Y_mean vs run
χ² / ndf 50.78 / 74
p0 −5.093 ± 3.294
pull
Entries 75
Mean −65.59
Std Dev 132.2

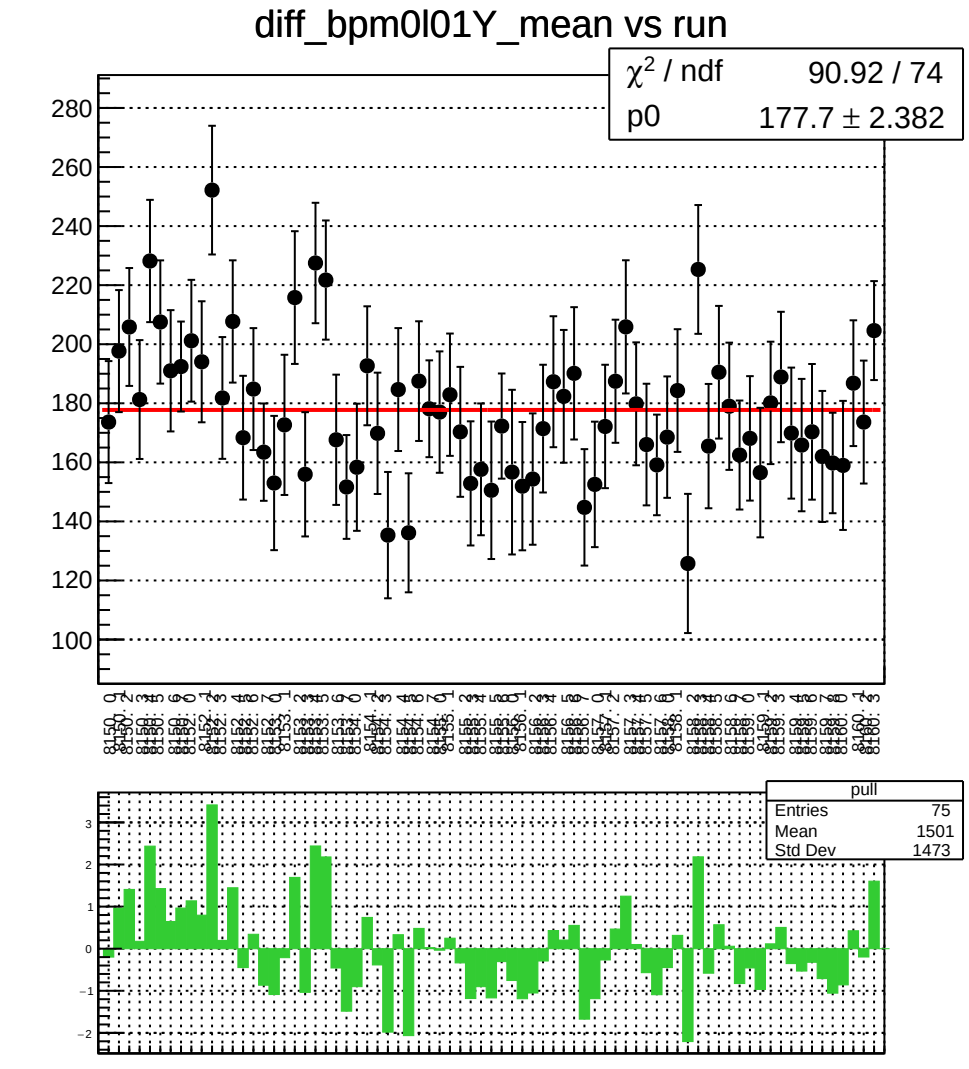

pull1D
Entries 75
Mean −0.002597
Std Dev 0.8228

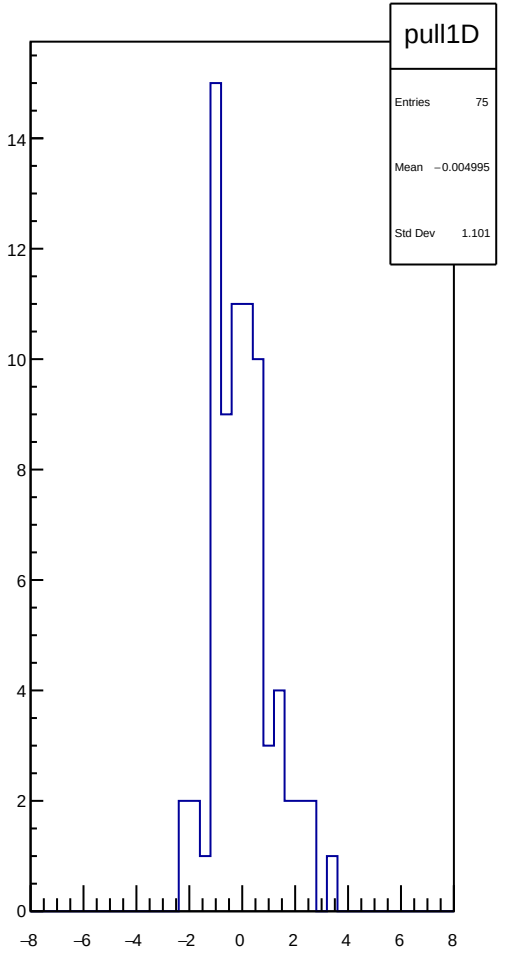

diff_bpm16Y_rms vs run
χ² / ndf 4755 / 74
p0 2795 ± 2.329
3600
3400
3200
3000
2800
2600

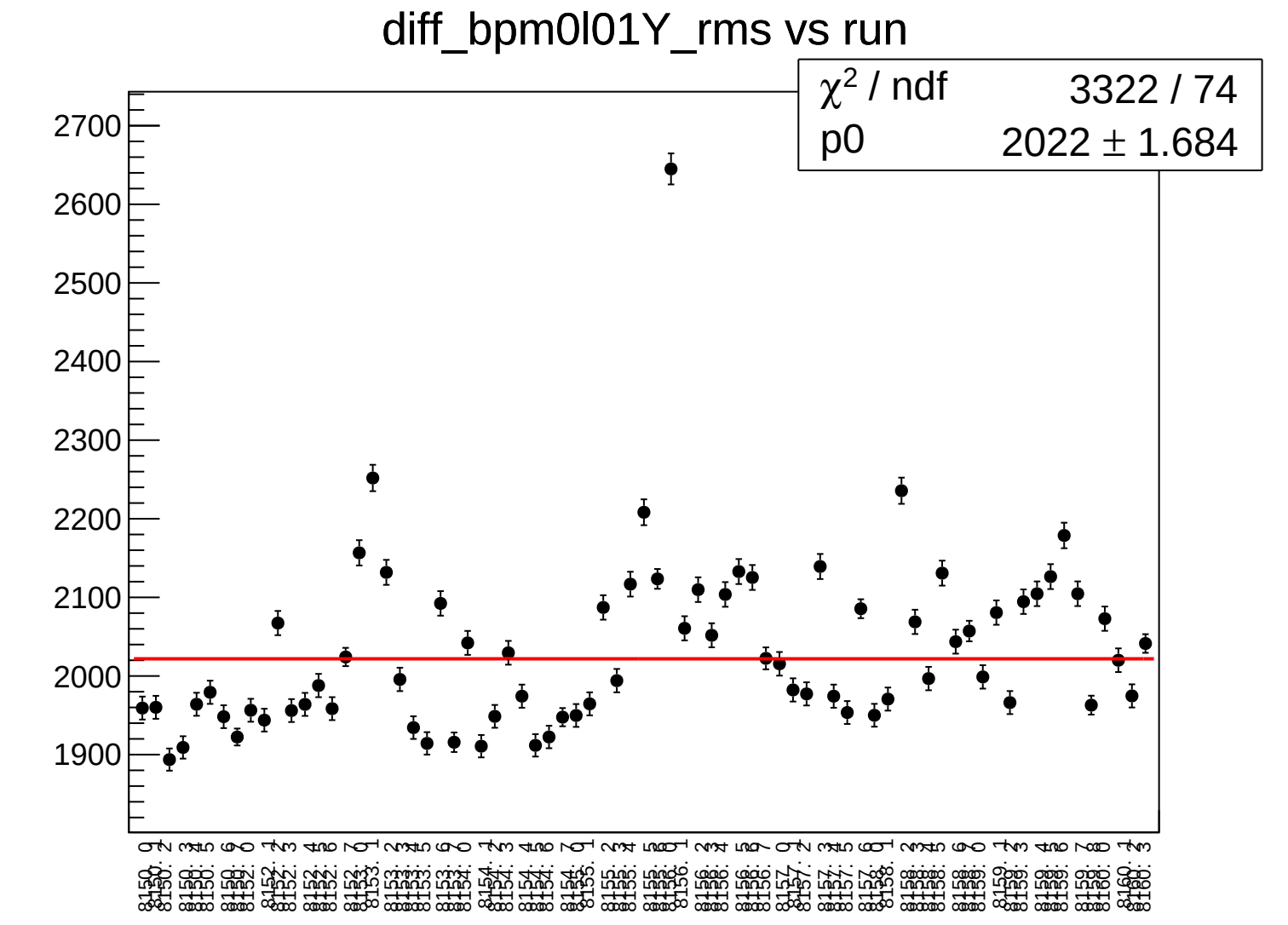

diff_bpm0l01X_mean vs run
χ² / ndf 67.33 / 74
p0 −95.18 ± 3.724
pull
Entries 75
Mean −19.11
Std Dev 25.47

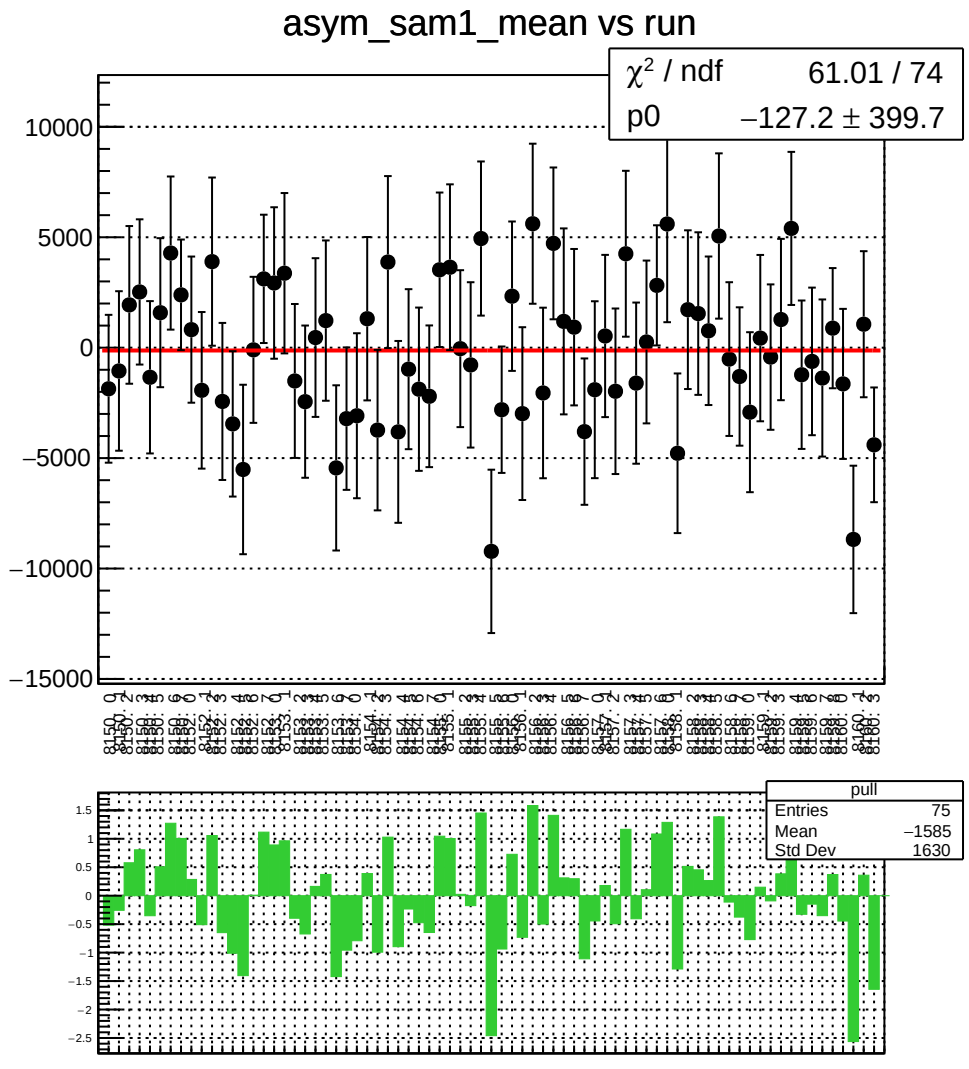

pull1D
Entries 75
Mean −0.02926
Std Dev 0.947

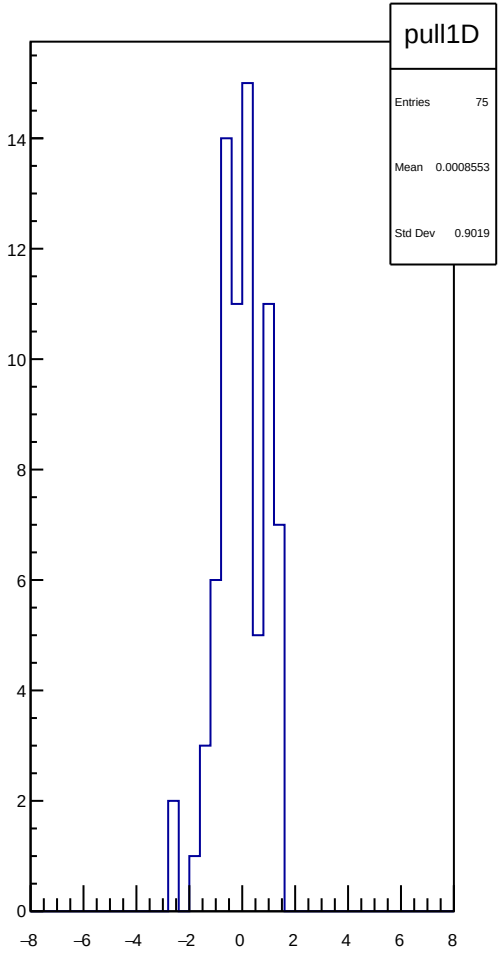

diff_bpm0l01X_rms vs run
χ² / ndf 157.3 / 74
p0 3165 ± 2.634
3250
3200
3150
3100
3050

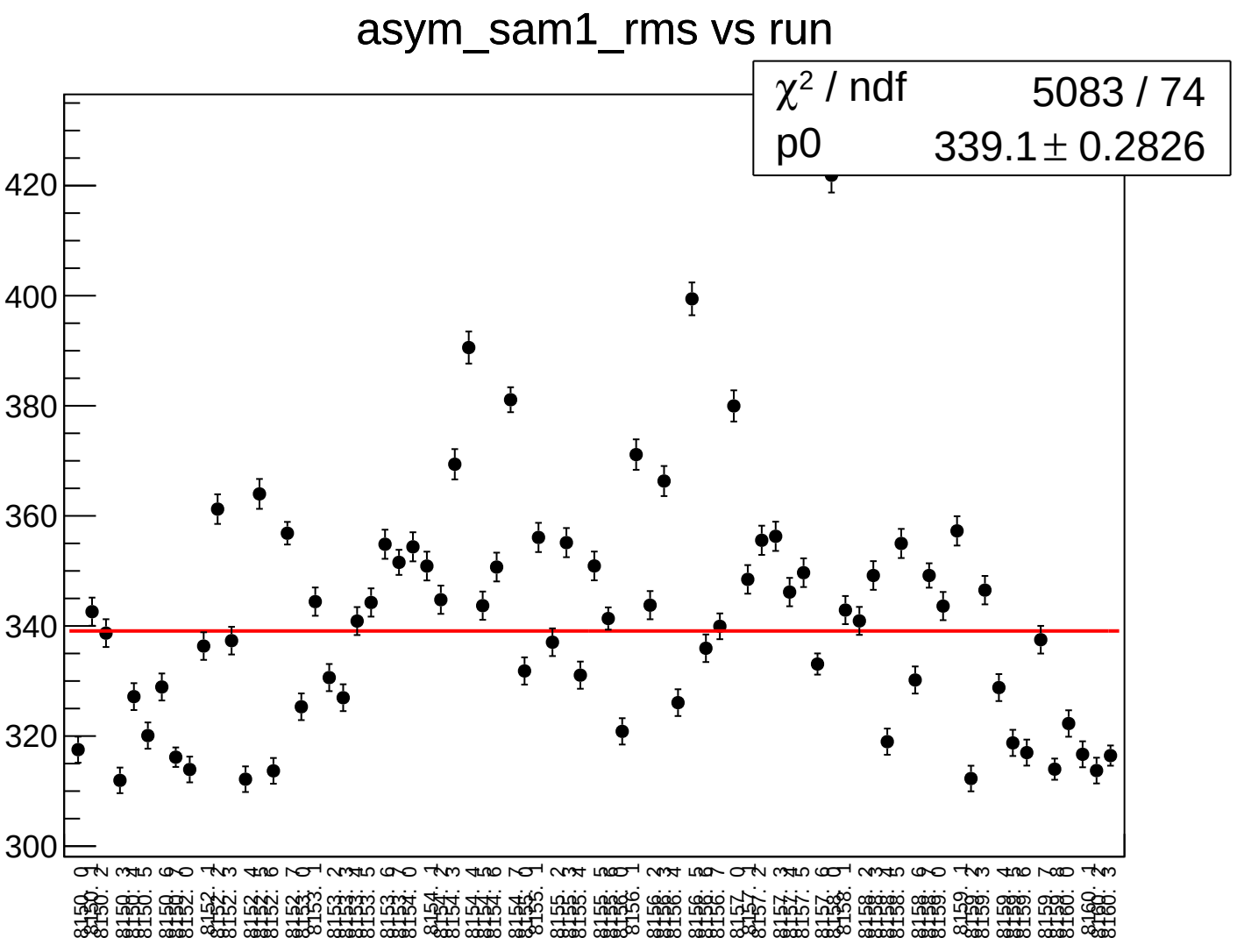

diff_bpm0l01Y_mean vs run
χ² / ndf 90.92 / 74
p0 177.7 ± 2.382
pull
Entries 75
Mean 1501
Std Dev 1473

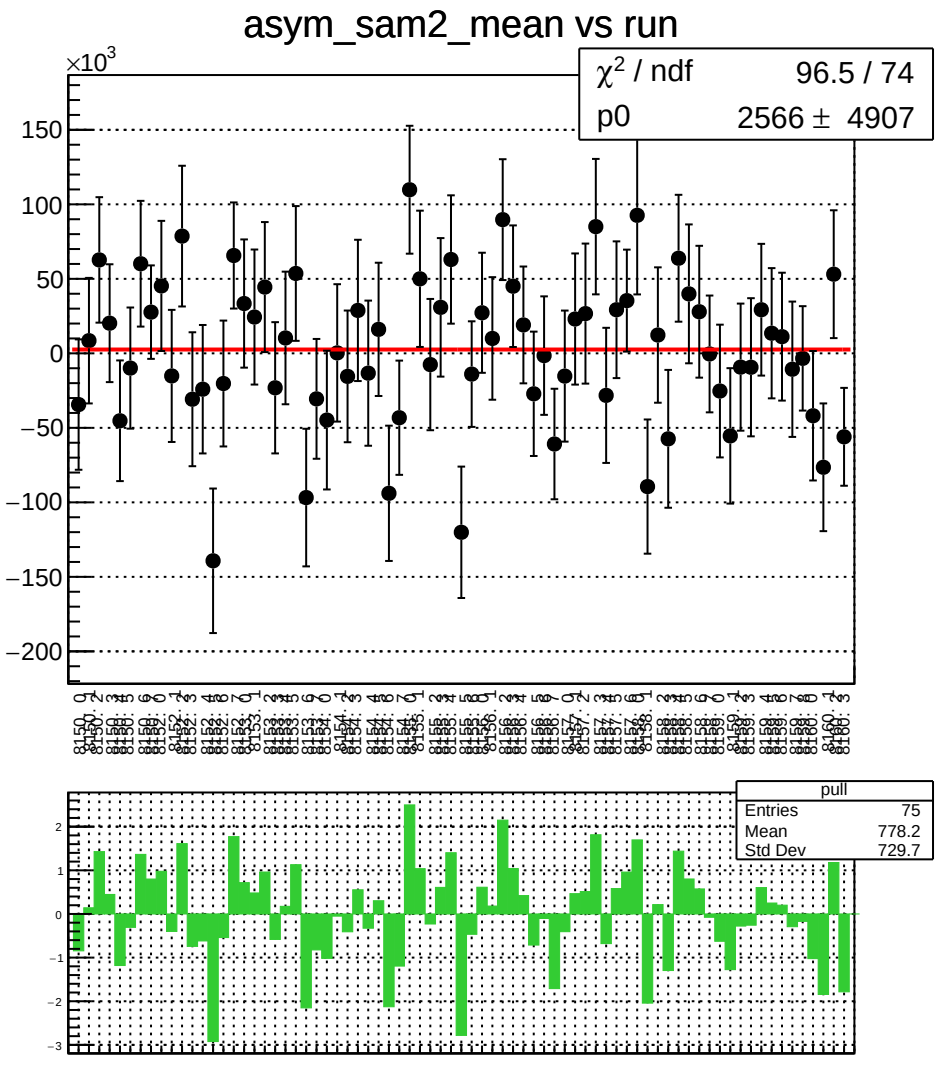

pull1D
Entries 75
Mean −0.004995
Std Dev 1.101

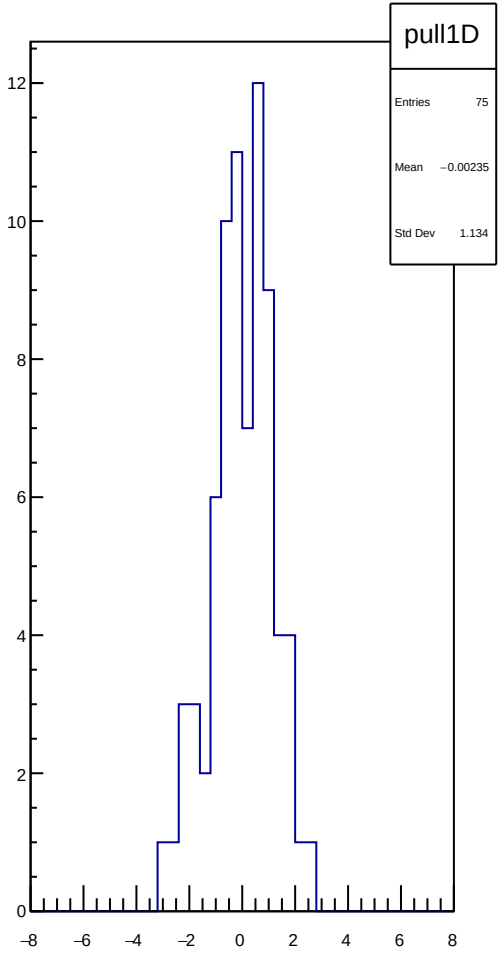

diff_bpm0l01Y_rms vs run
χ² / ndf 3322 / 74
p0 2022 ± 1.684
2700
2600
2500
2400
2300
2200
2100
2000
1900

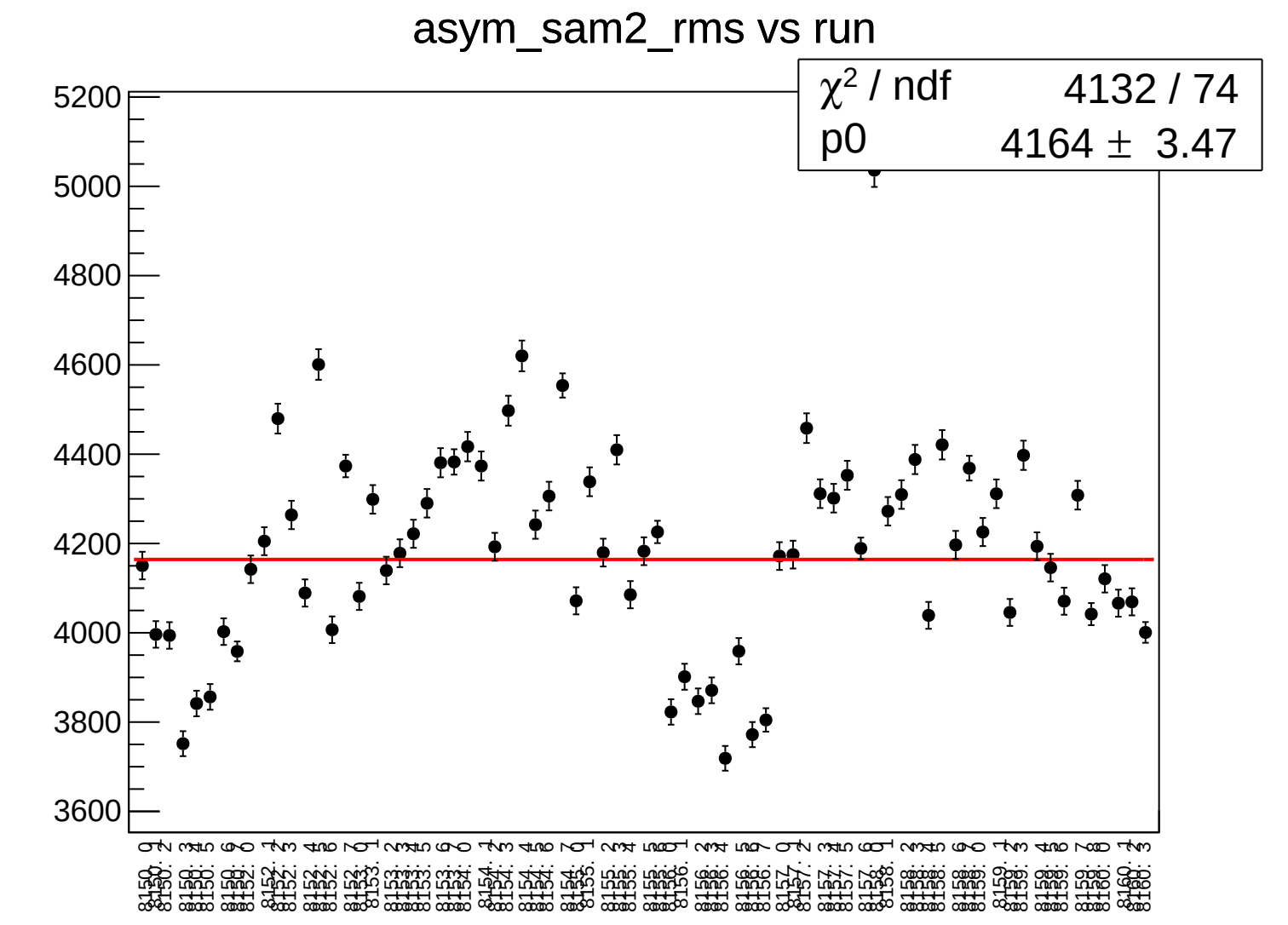

asym_sam1_mean vs run
χ² / ndf 61.01 / 74
p0 −127.2 ± 399.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 75
Mean −1585
Std Dev 1630
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

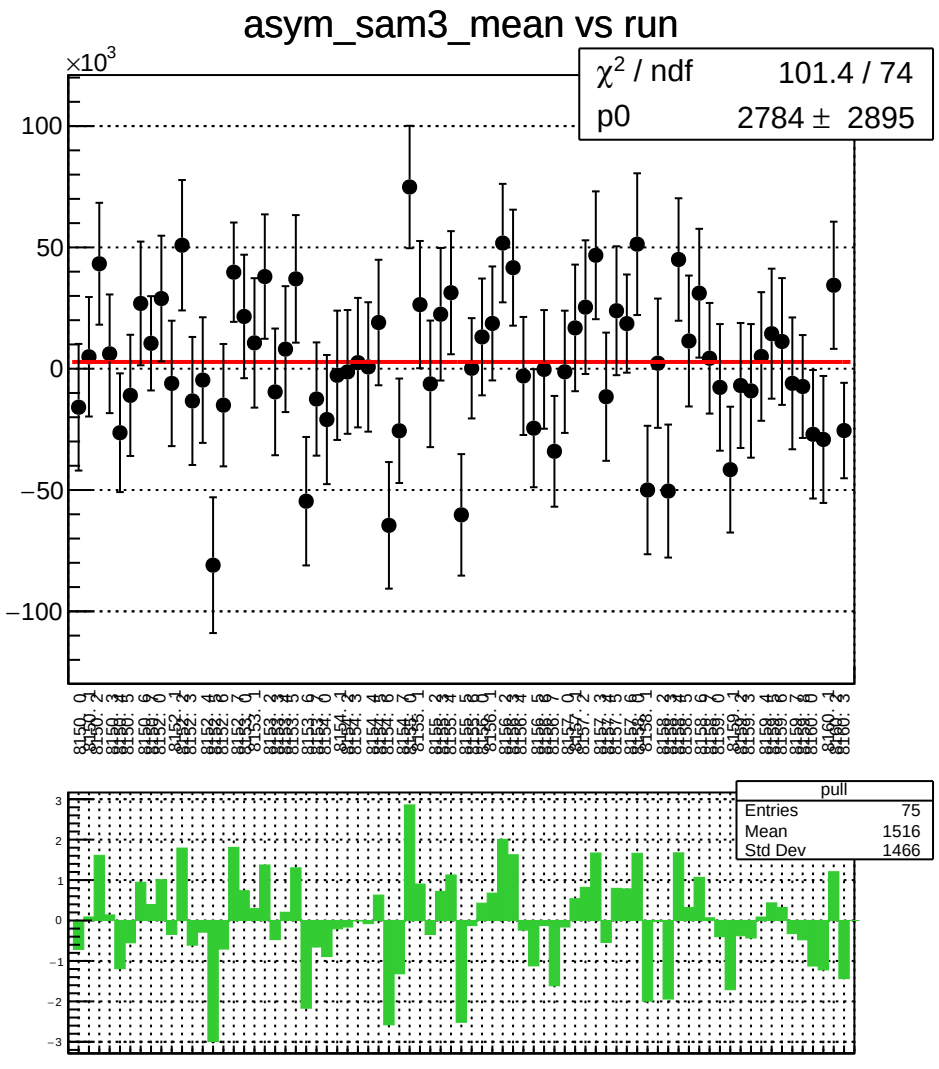

pull1D
Entries 75
Mean 0.0008553
Std Dev 0.9019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

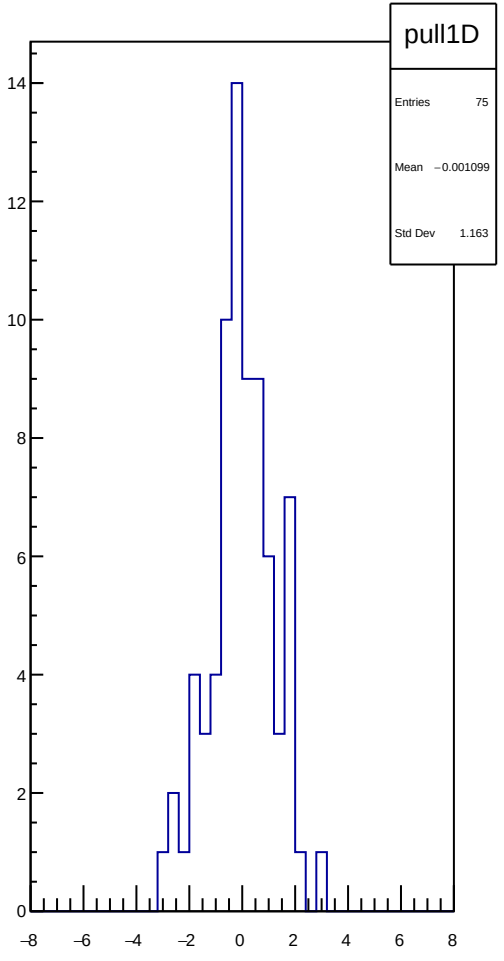

asym_sam1_rms vs run
χ² / ndf 5083 / 74
p0 339.1 ± 0.2826
420
400
380
360
340
320
300

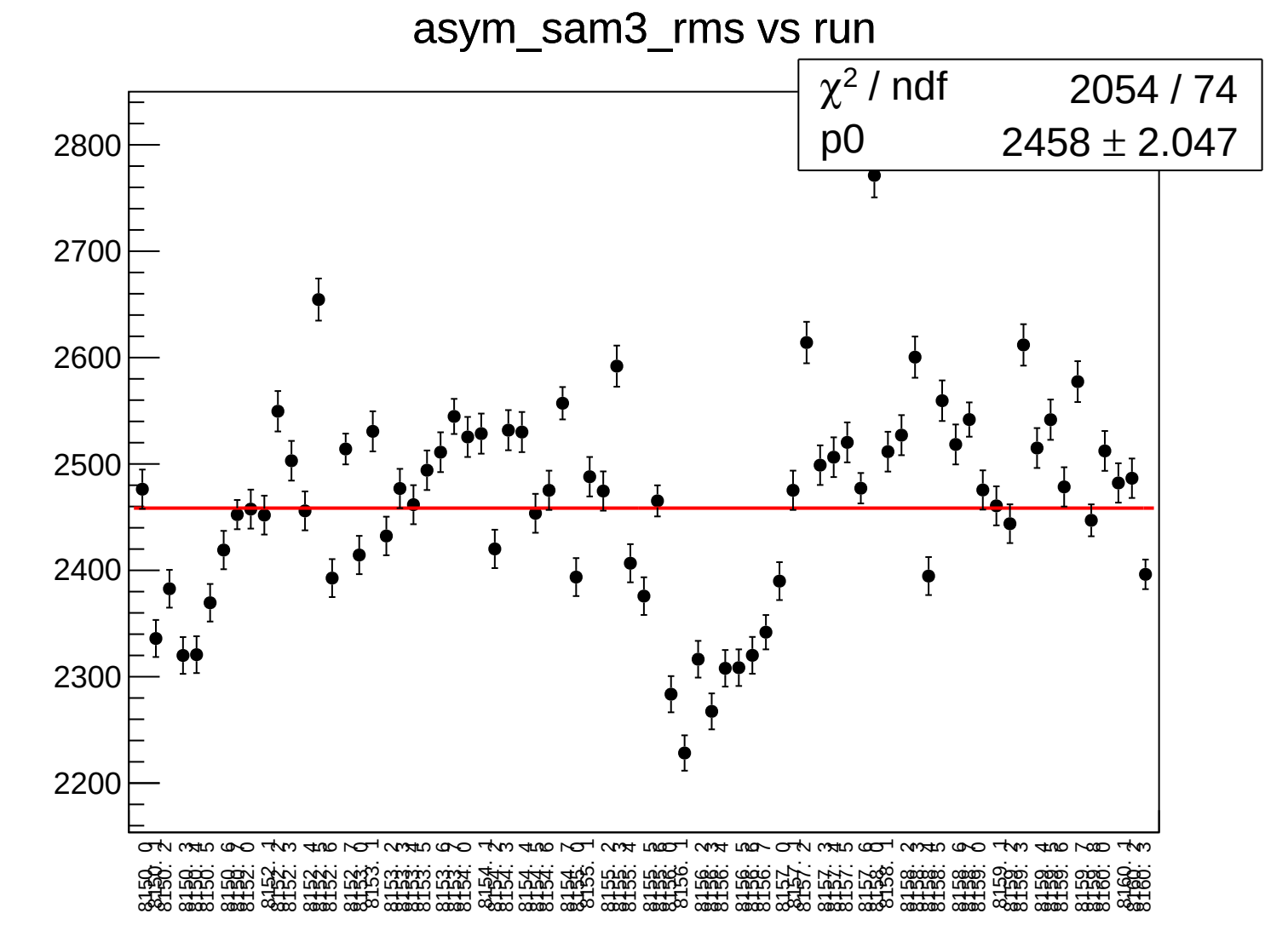

asym_sam2_mean vs run
×10^3
χ² / ndf 96.5 / 74
p0 2566 ± 4907
150
100
50
0
−50
−100
−150
−200
pull
Entries 75
Mean 778.2
Std Dev 729.7
2
1
0
−1
−2
−3

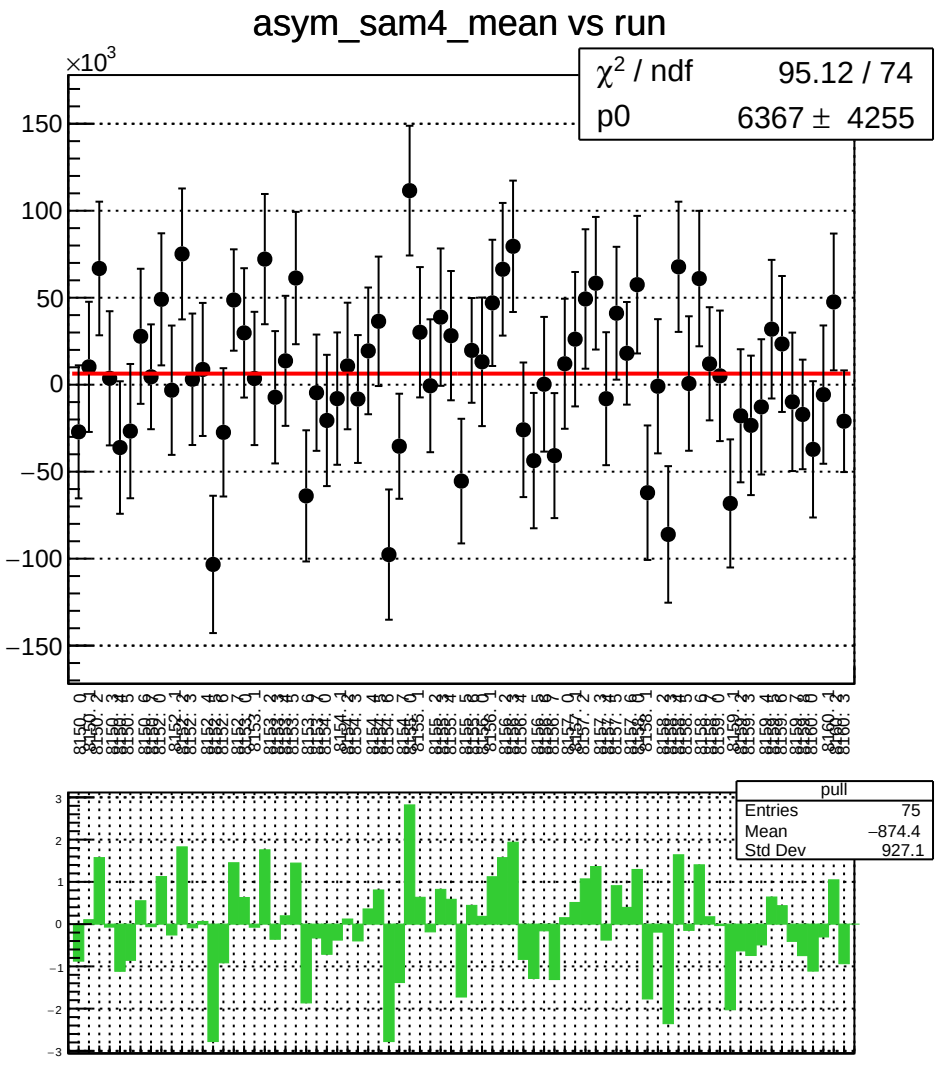

pull1D
Entries 75
Mean −0.00235
Std Dev 1.134
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

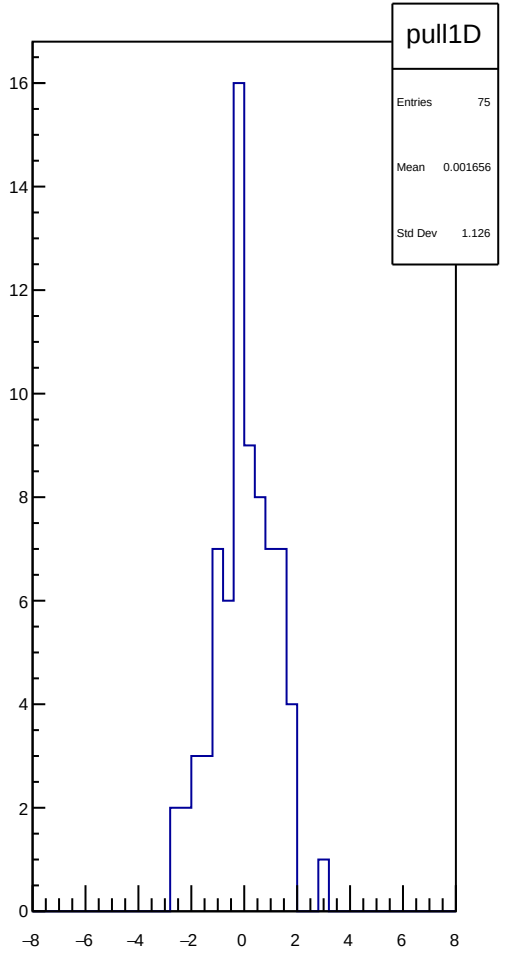

asym_sam2_rms vs run
χ² / ndf 4132 / 74
p0 4164 ± 3.47
5200
5000
4800
4600
4400
4200
4000
3800
3600

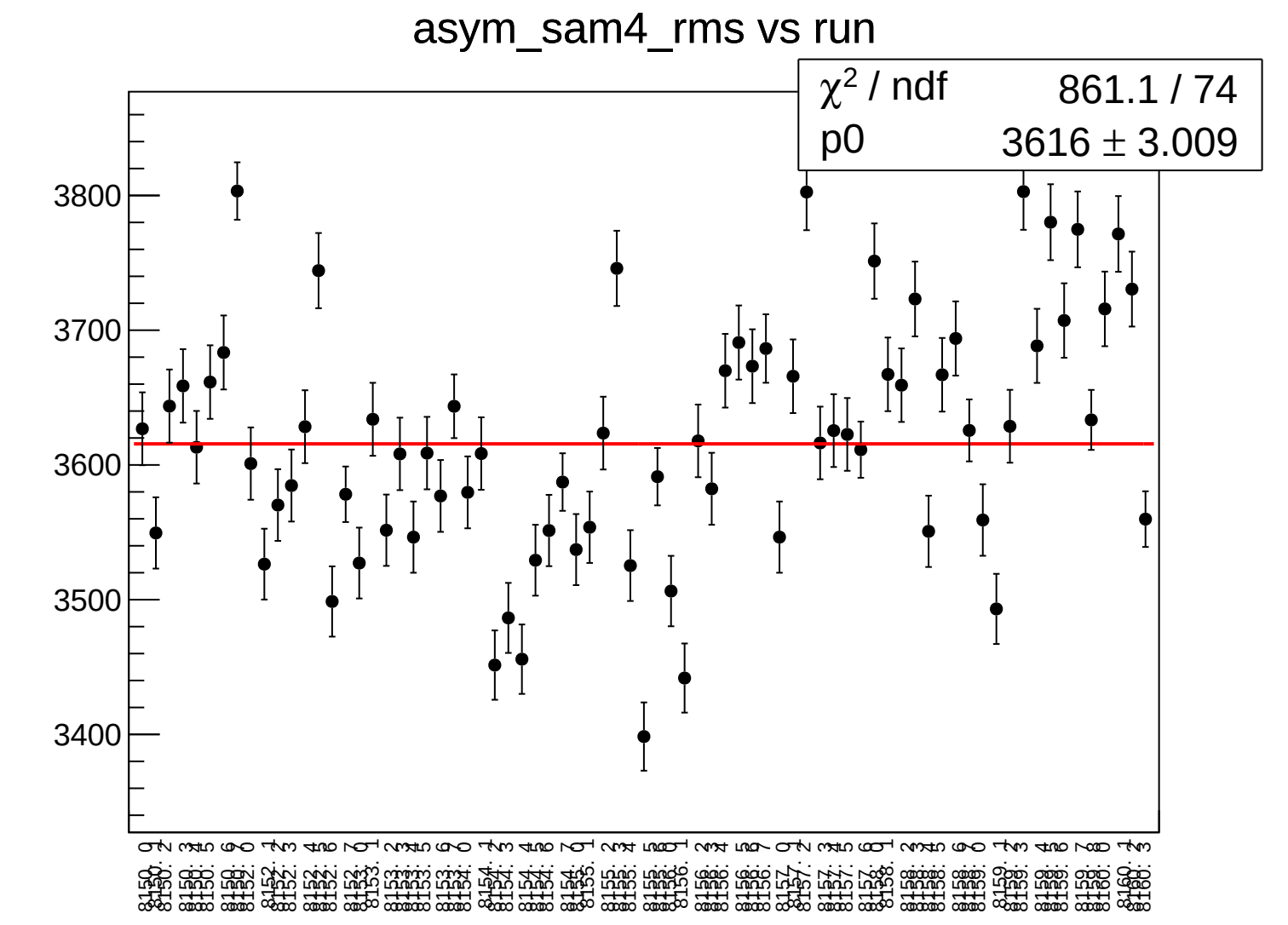

asym_sam3_mean vs run
×10^3
χ² / ndf 101.4 / 74
p0 2784 ± 2895
100
50
0
−50
−100
pull
Entries 75
Mean 1516
Std Dev 1466
3
2
1
0
−1
−2
−3

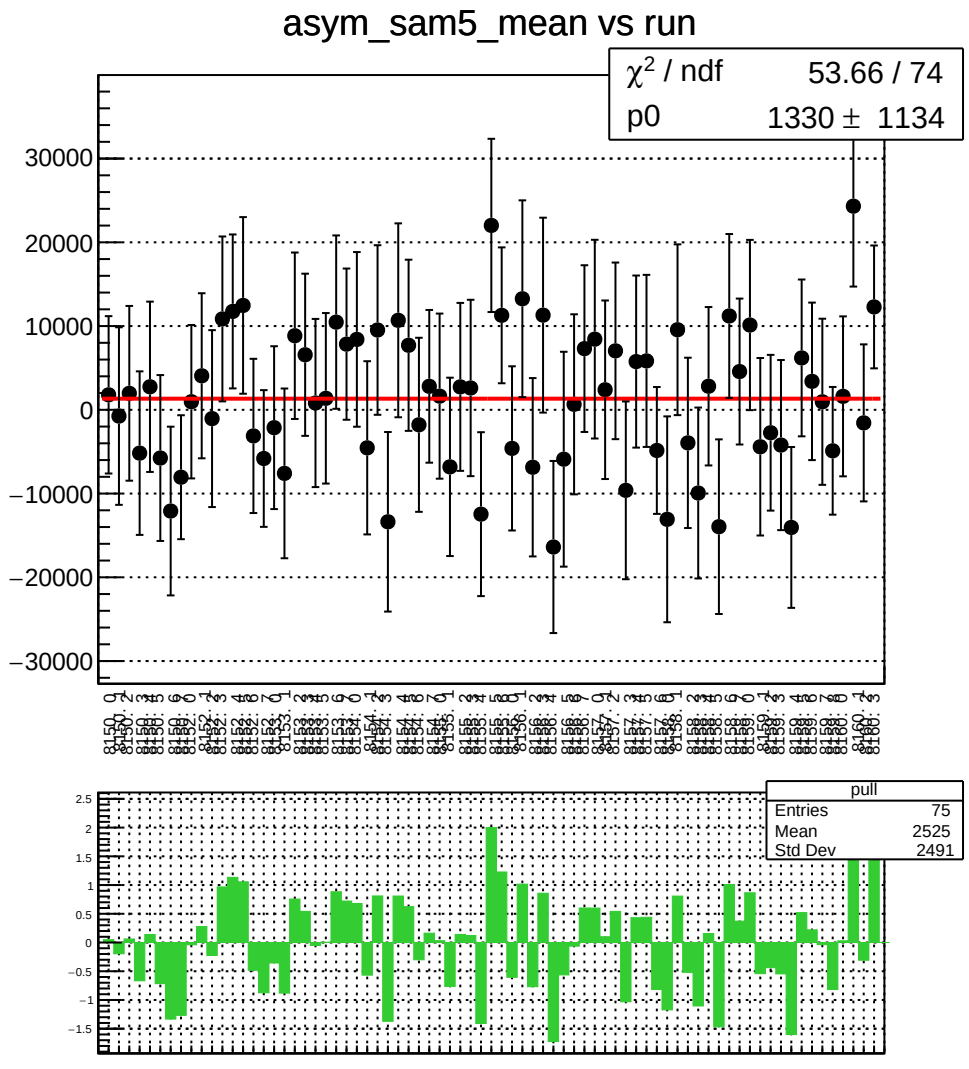

pull1D
Entries 75
Mean −0.001099
Std Dev 1.163
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

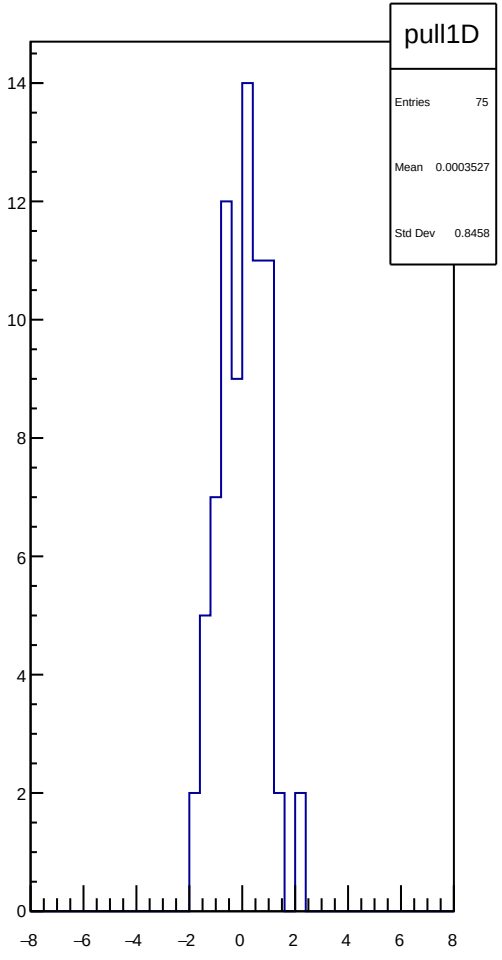

asym_sam3_rms vs run
χ^2 / ndf 2054 / 74
p0 2458 ± 2.047
2800
2700
2600
2500
2400
2300
2200

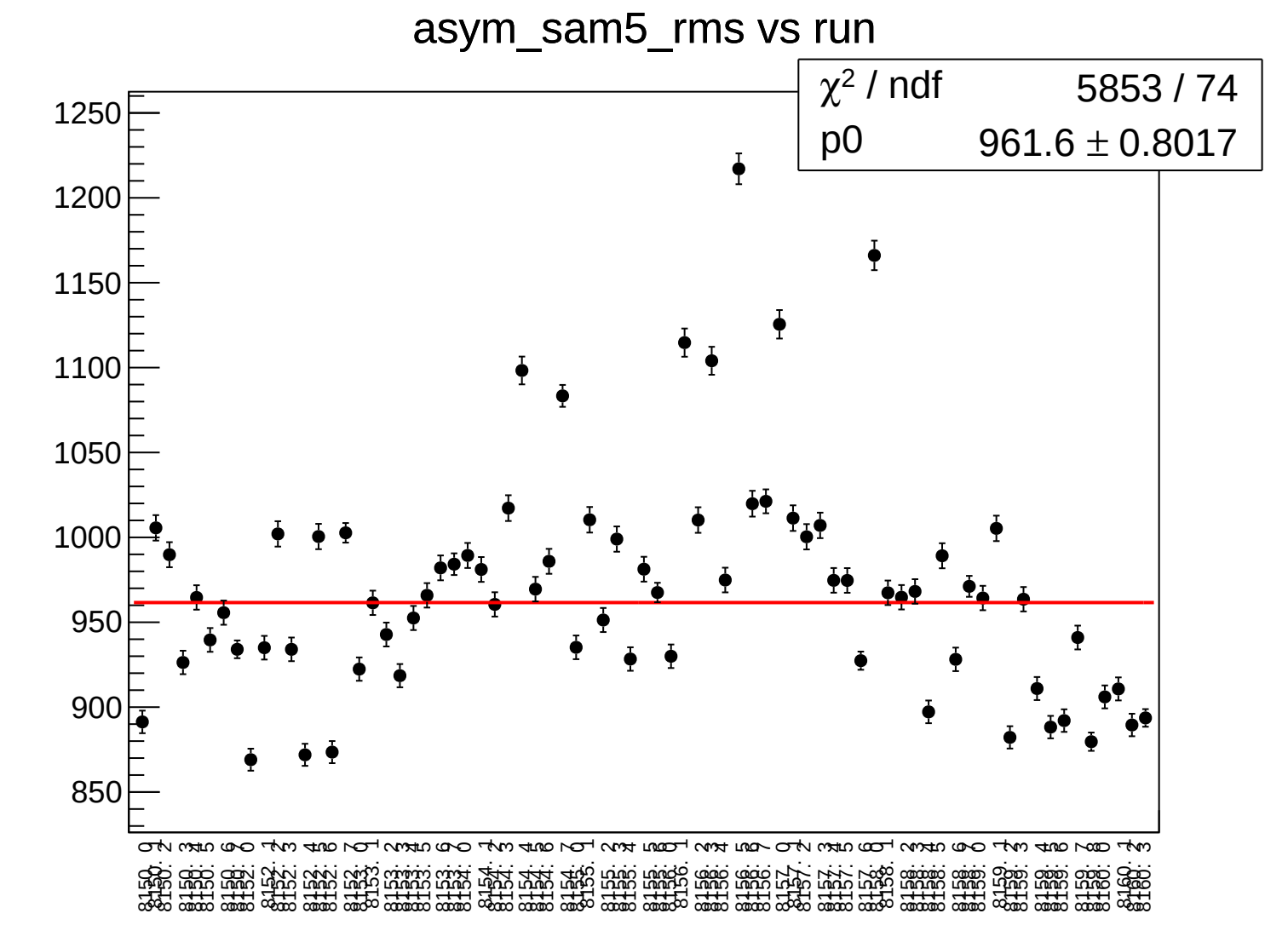

asym_sam4_mean vs run
×10^3
χ^2 / ndf 95.12 / 74
p0 6367 ± 4255
150
100
50
0
−50
−100
−150
pull
Entries 75
Mean −874.4
Std Dev 927.1
3
2
1
0
−1
−2
−3

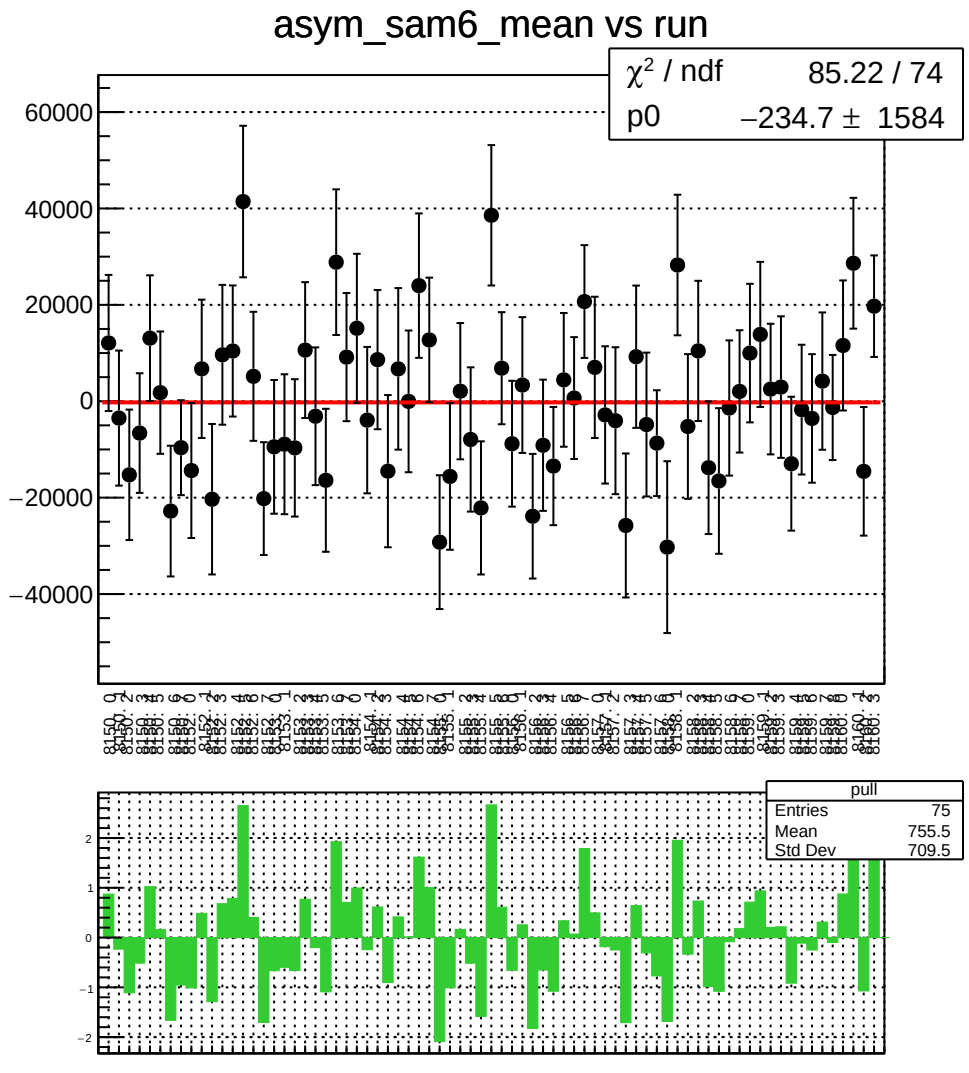

pull1D
Entries 75
Mean 0.001656
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

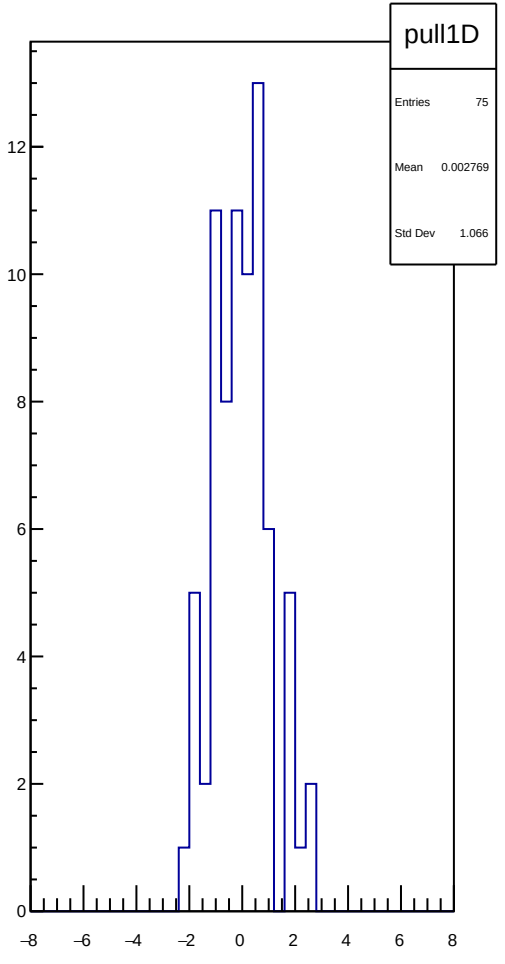

asym_sam4_rms vs run
χ^2 / ndf 861.1 / 74
p0 3616 ± 3.009
3800
3700
3600
3500
3400

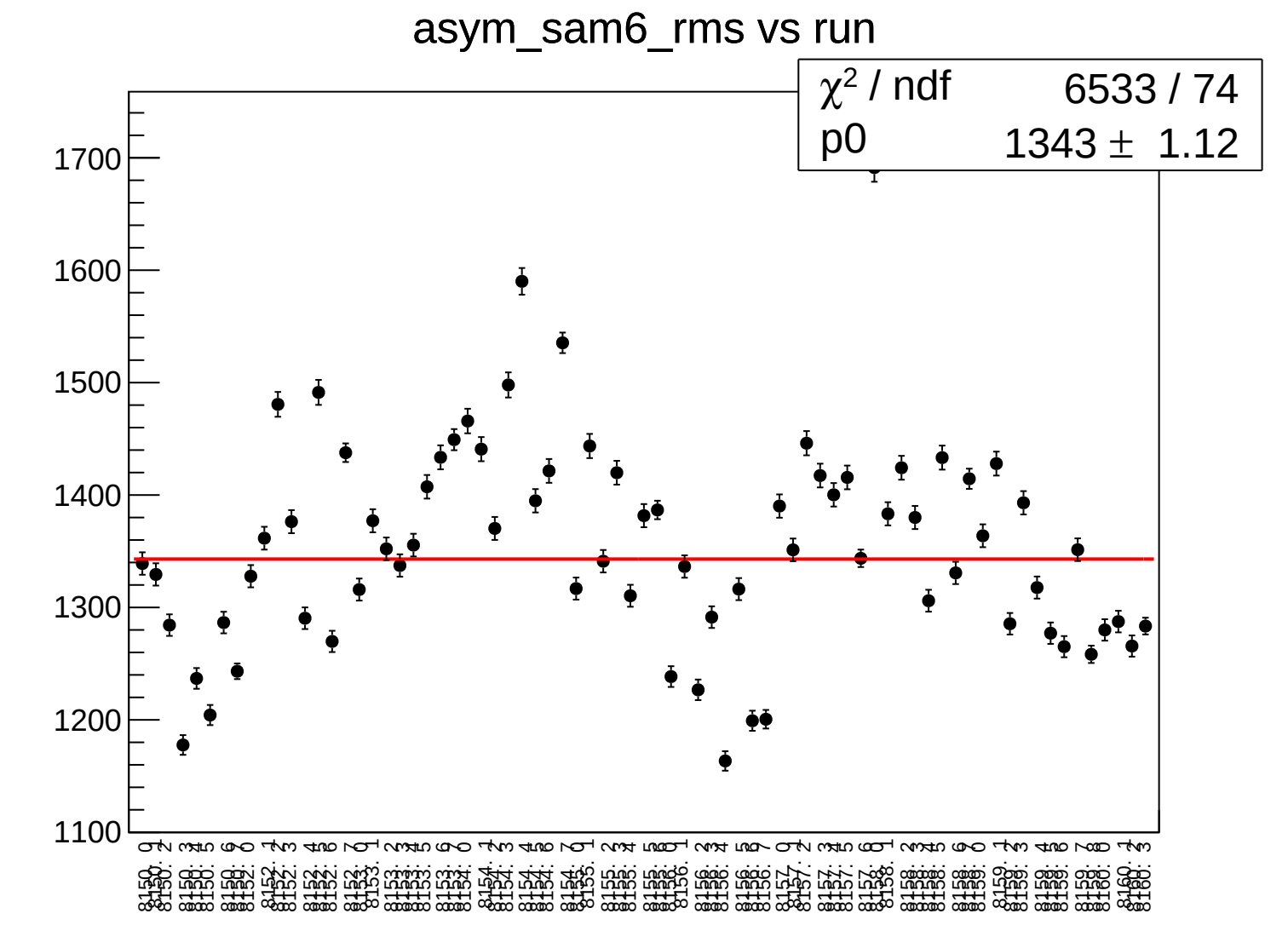

asym_sam5_mean vs run
χ² / ndf 53.66 / 74
p0 1330 ± 1134
pull
Entries 75
Mean 2525
Std Dev 2491

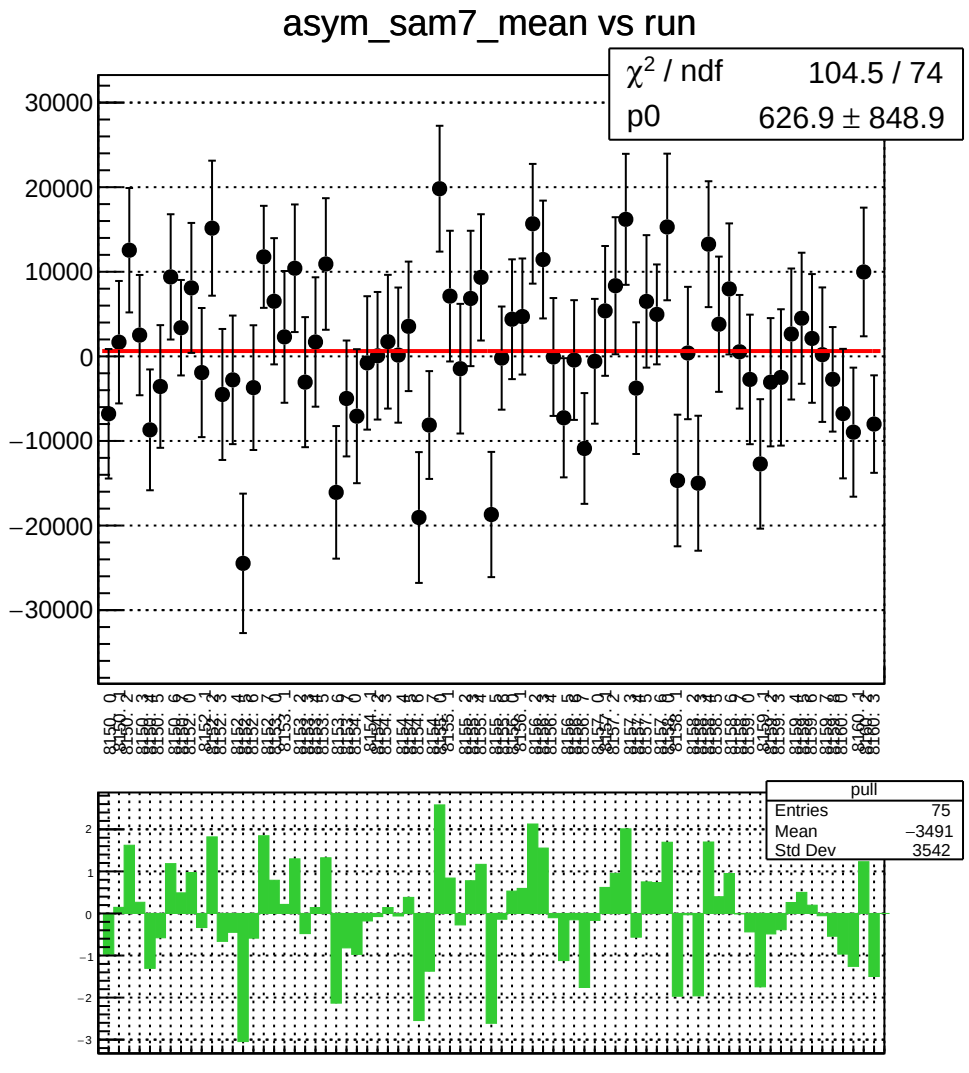

pull1D
Entries 75
Mean 0.0003527
Std Dev 0.8458

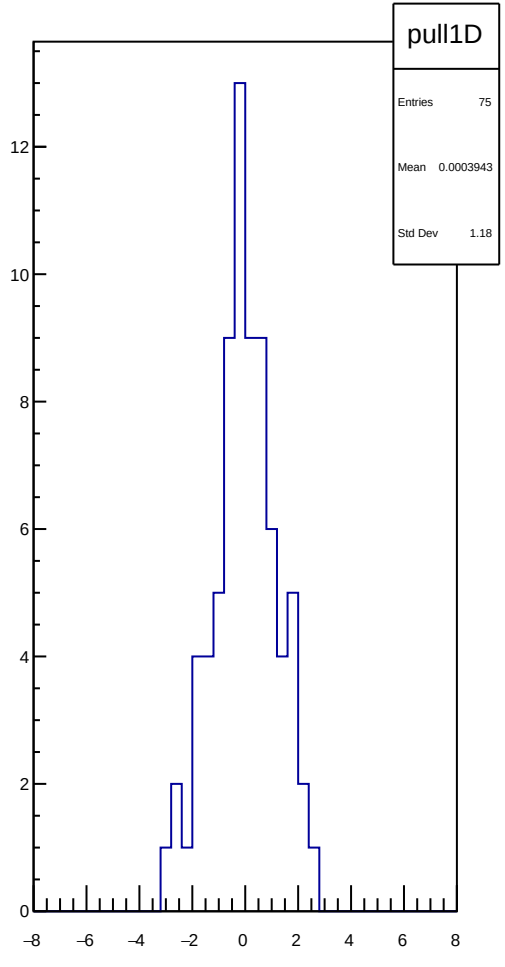

asym_sam5_rms vs run
χ² / ndf 5853 / 74
p0 961.6 ± 0.8017
1250
1200
1150
1100
1050
1000
950
900
850

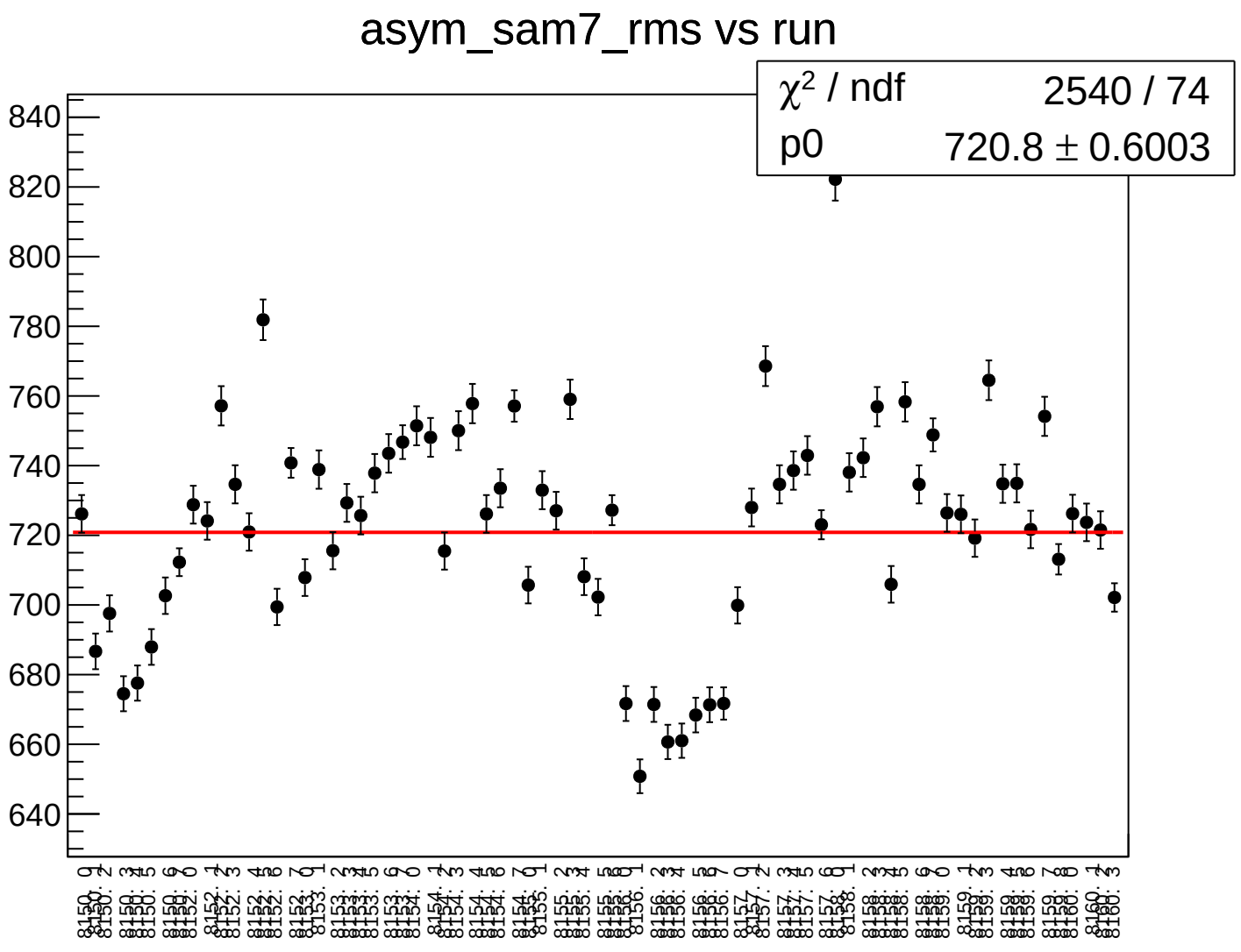

asym_sam6_mean vs run
χ² / ndf 85.22 / 74
p0 −234.7 ± 1584
pull
Entries 75
Mean 755.5
Std Dev 709.5

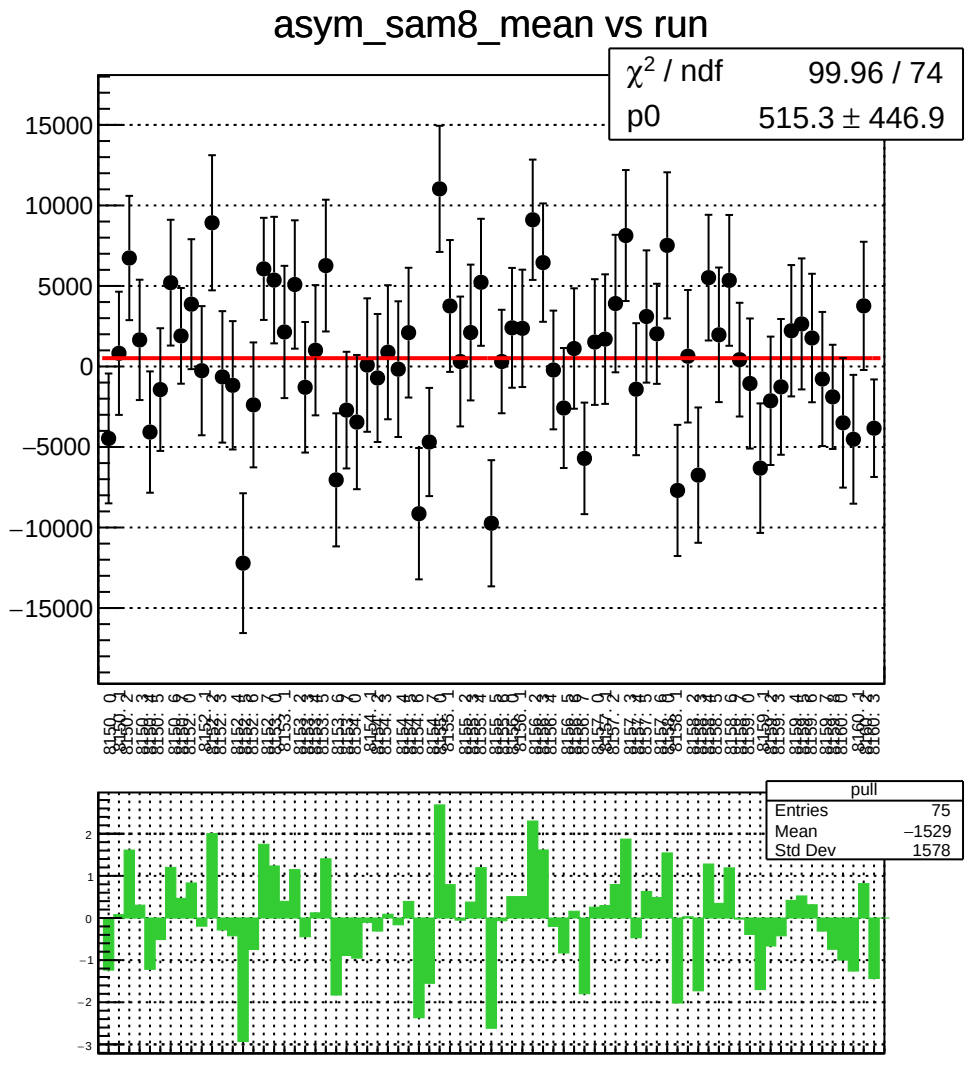

pull1D
Entries 75
Mean 0.002769
Std Dev 1.066

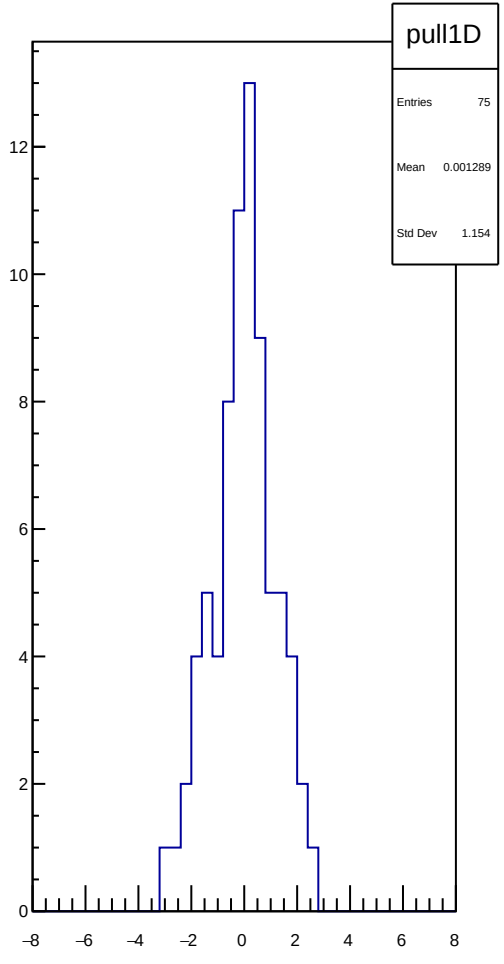

asym_sam6_rms vs run
χ² / ndf 6533 / 74
p0 1343 ± 1.12
1700
1600
1500
1400
1300
1200
1100

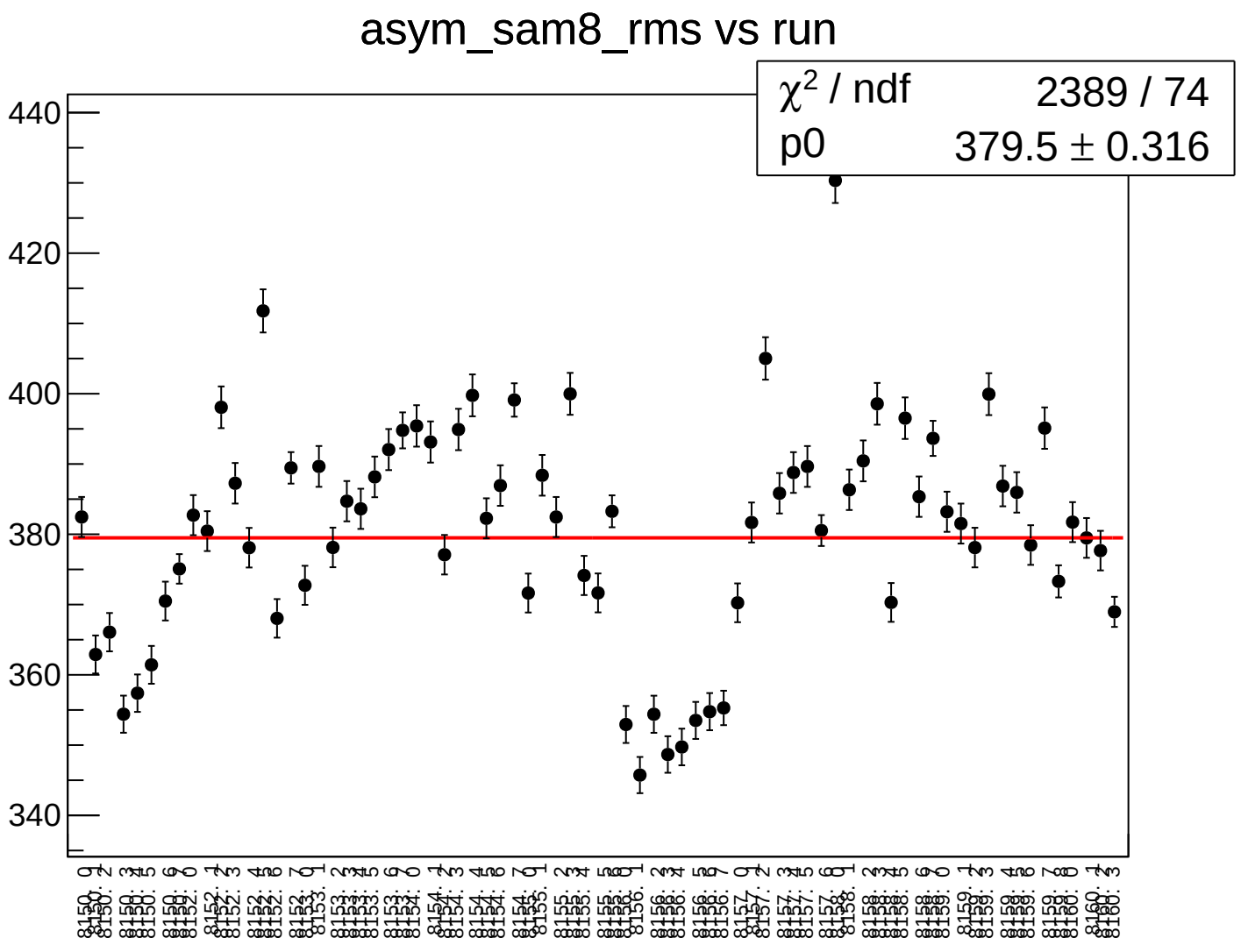

asym_sam7_mean vs run
χ² / ndf 104.5 / 74
p0 626.9 ± 848.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 75
Mean −3491
Std Dev 3542
2
1
0
−1
−2
−3

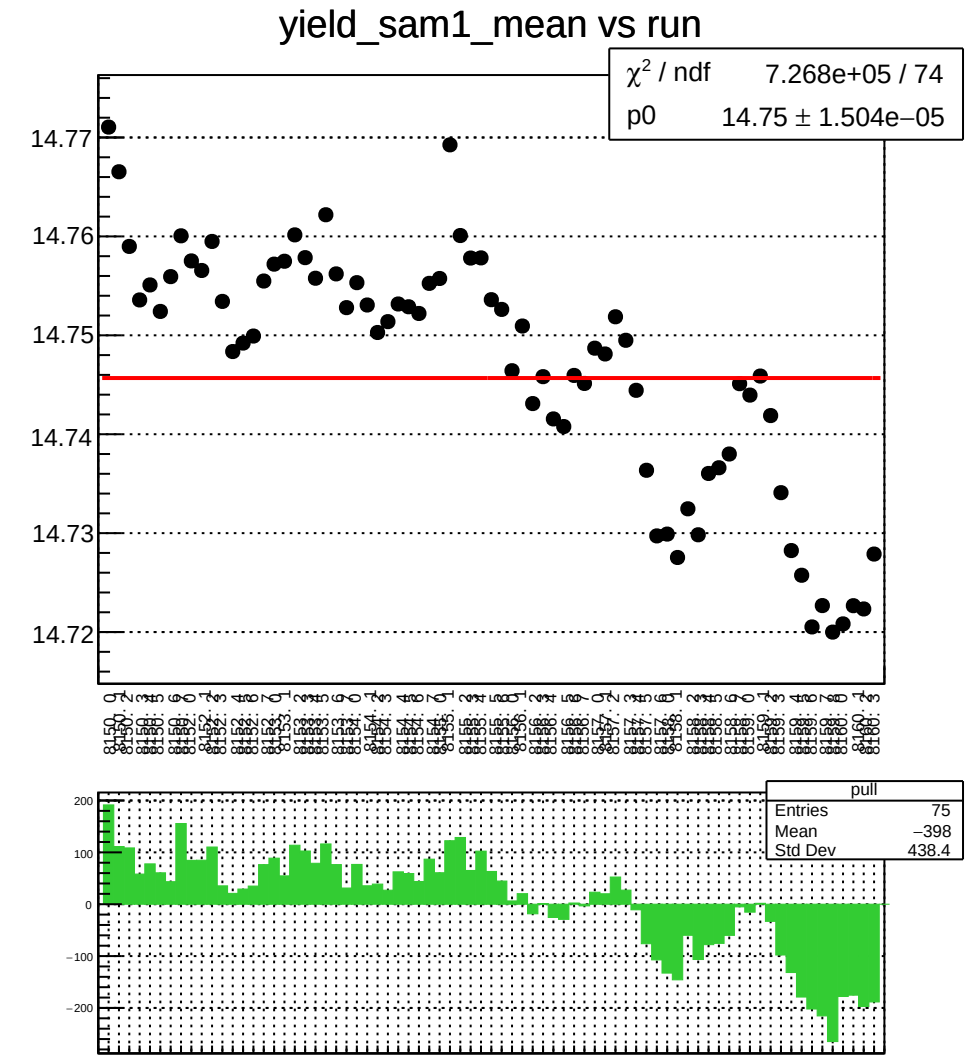

pull1D
Entries 75
Mean 0.0003943
Std Dev 1.18
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

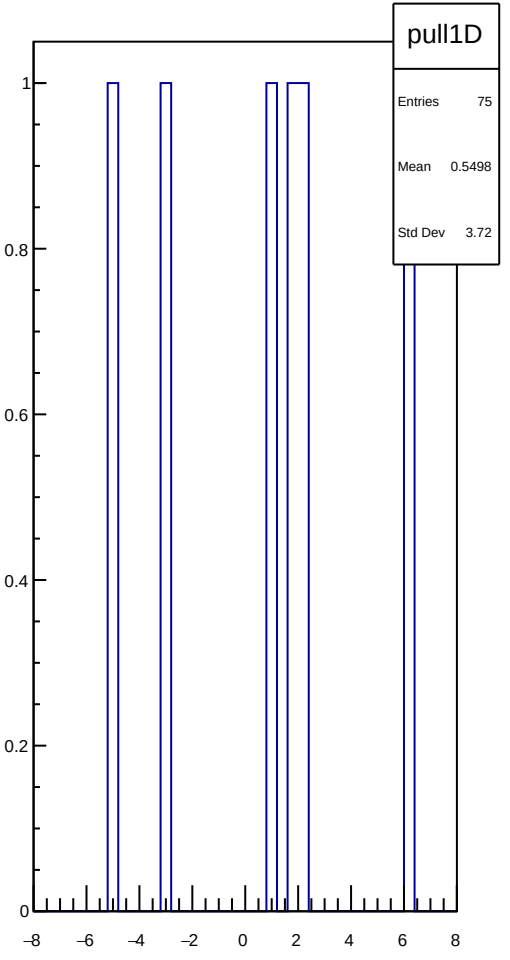

asym_sam7_rms vs run
χ² / ndf 2540 / 74
p0 720.8 ± 0.6003
840
820
800
780
760
740
720
700
680
660
640

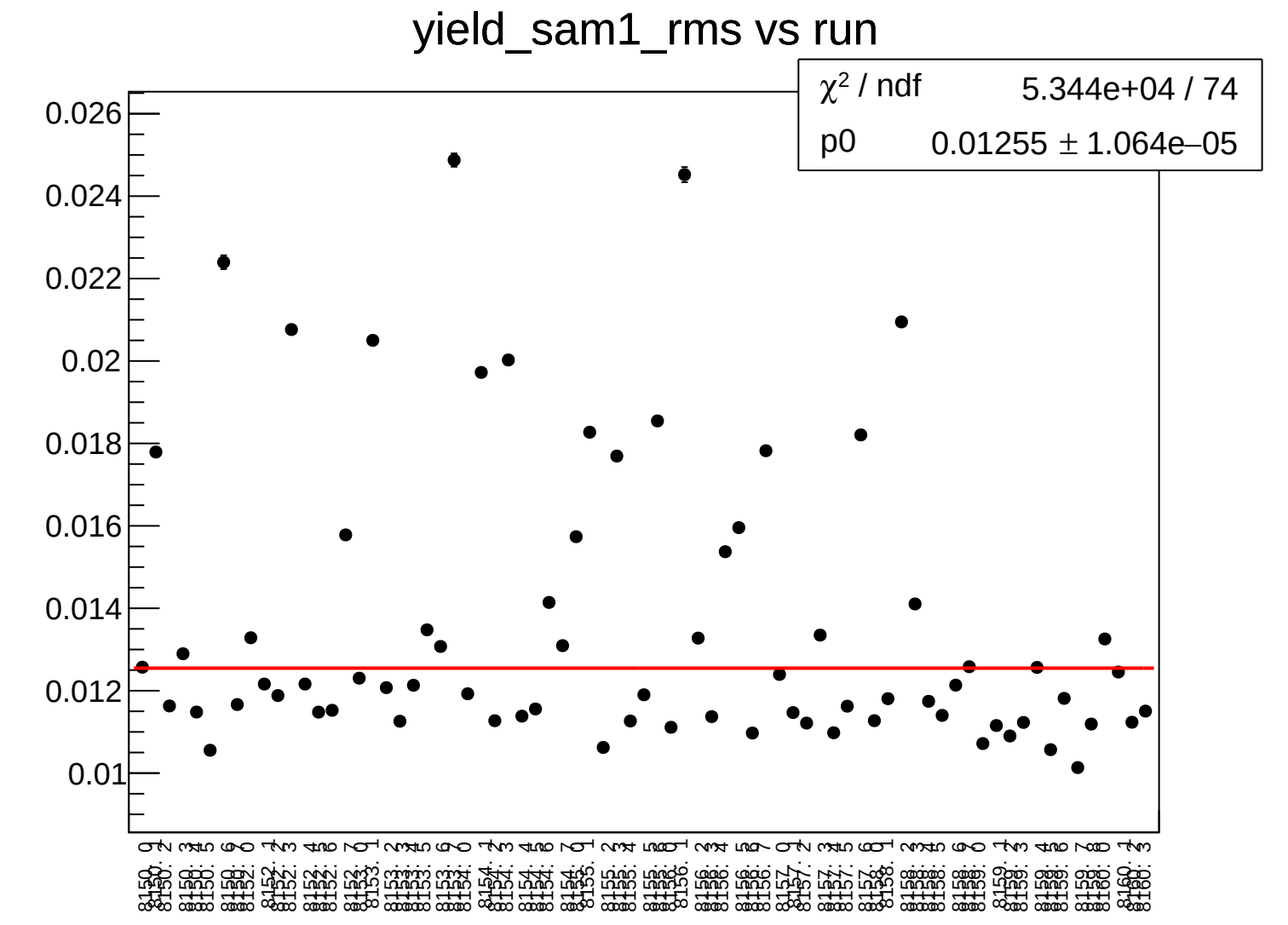

asym_sam8_mean vs run
χ² / ndf 99.96 / 74
p0 515.3 ± 446.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 75
Mean −1529
Std Dev 1578
2
1
0
−1
−2
−3

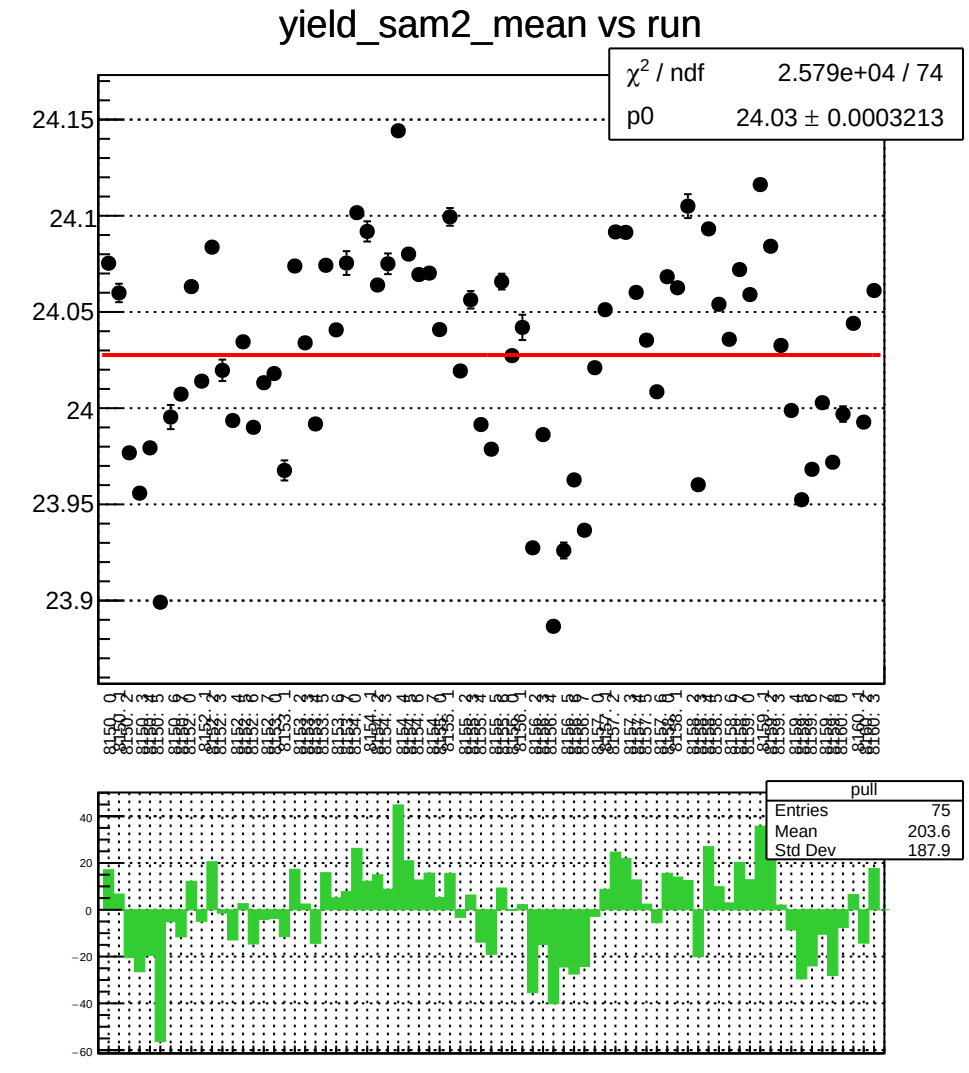

pull1D
Entries 75
Mean 0.001289
Std Dev 1.154
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

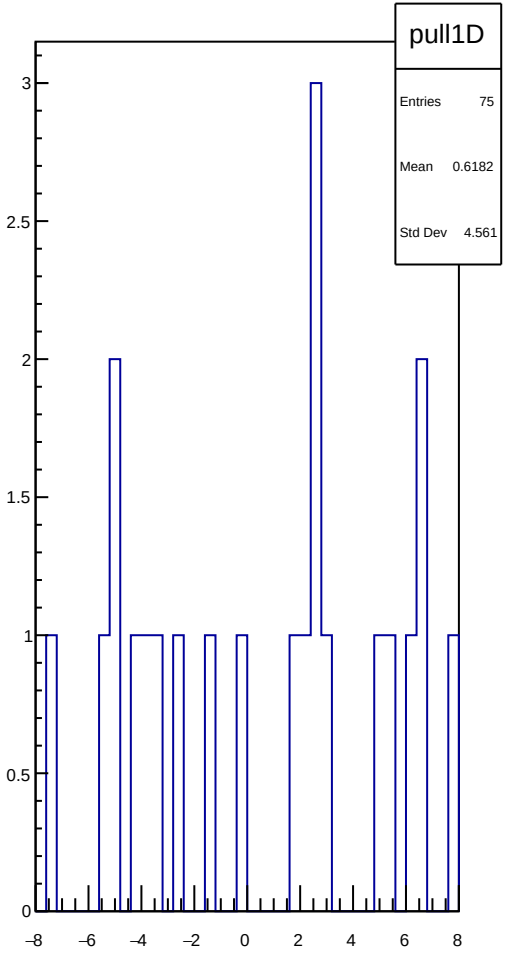

asym_sam8_rms vs run
χ^2 / ndf 2389 / 74
p0 379.5 ± 0.316
440
420
400
380
360
340

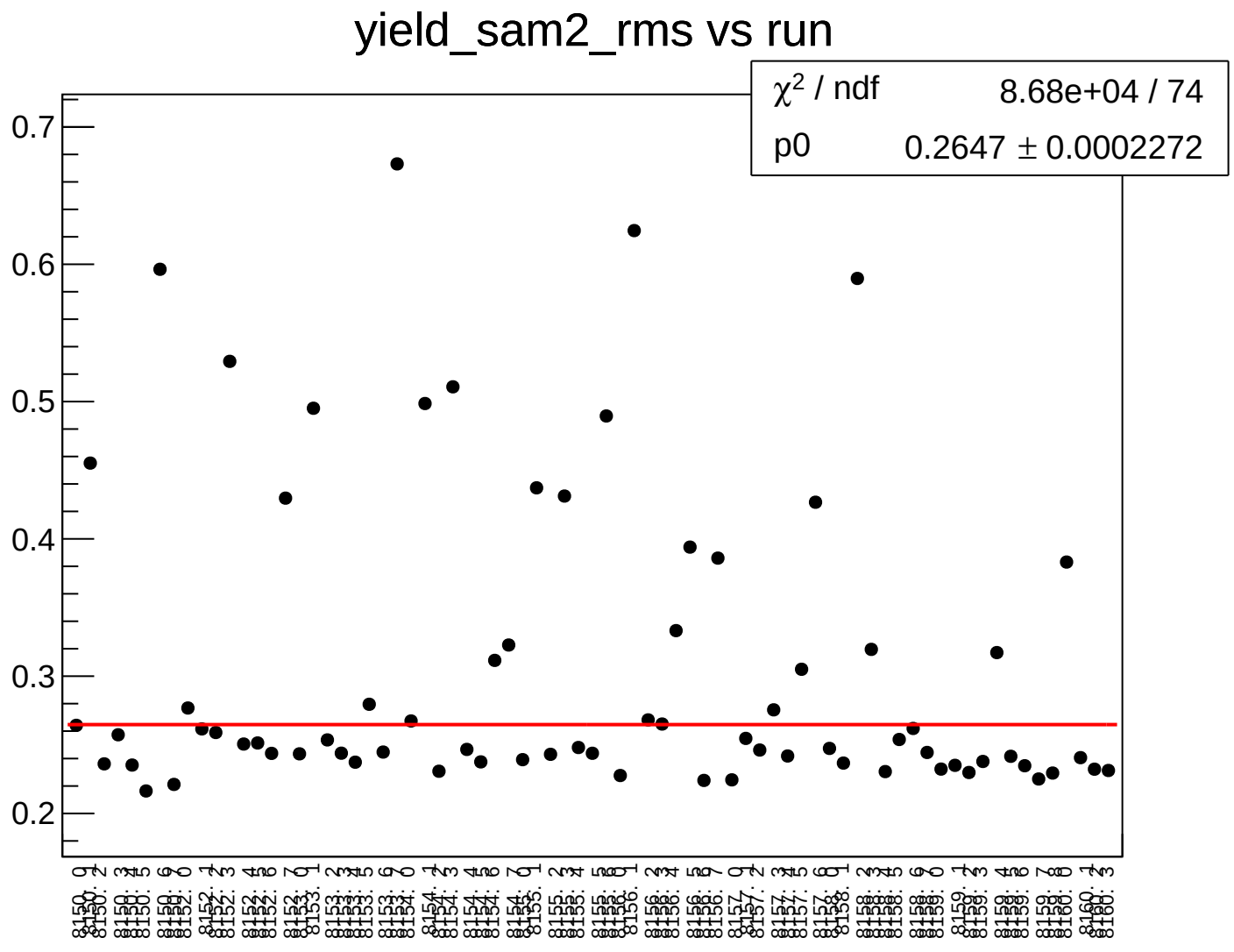

yield_sam1_mean vs run
χ² / ndf 7.268e+05 / 74
p0 14.75 ± 1.504e−05
14.77
14.76
14.75
14.74
14.73
14.72
pull
Entries 75
Mean −398
Std Dev 438.4
200
100
0
−100
−200

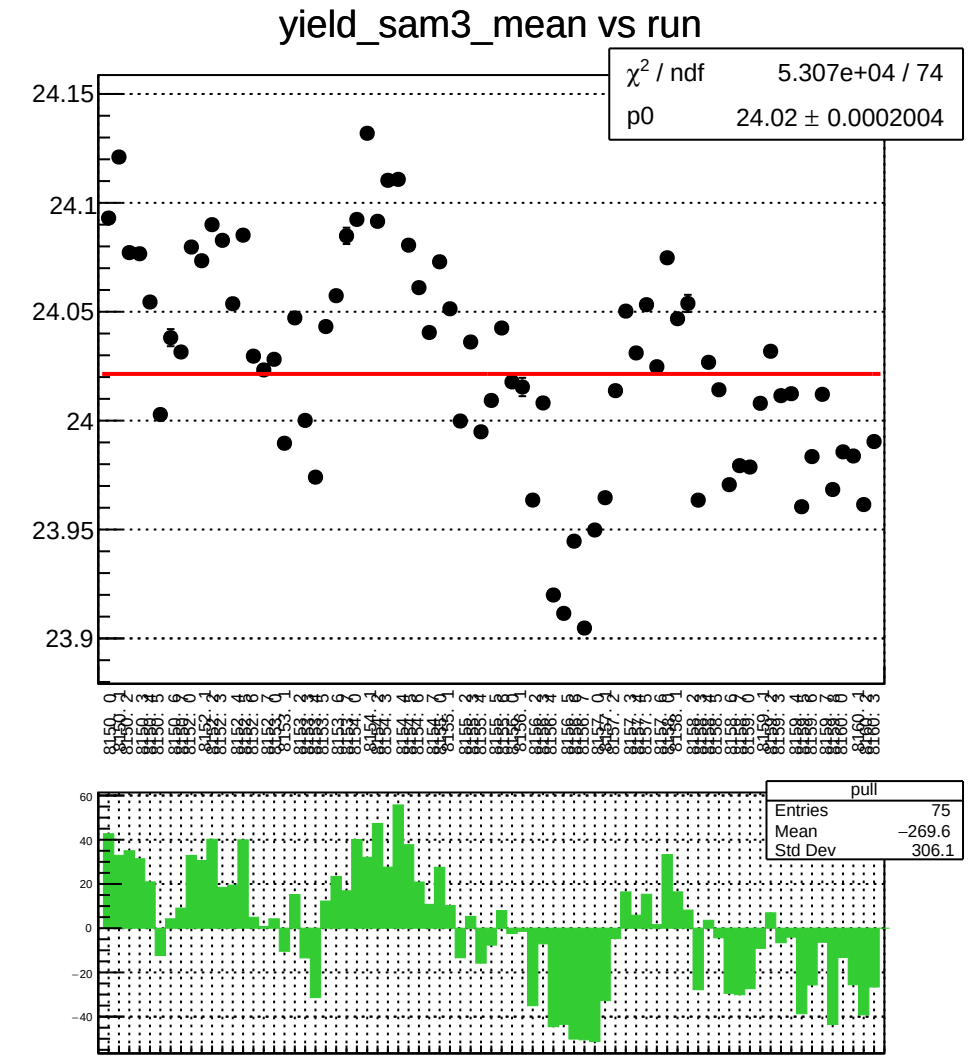

pull1D
Entries 75
Mean 0.5498
Std Dev 3.72
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

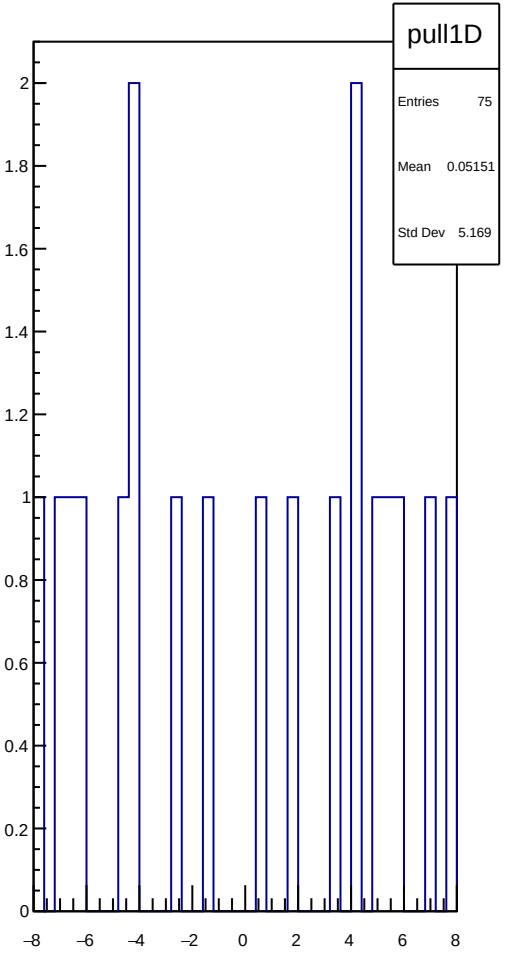

yield_sam1_rms vs run
χ² / ndf 5.344e+04 / 74
p0 0.01255 ± 1.064e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

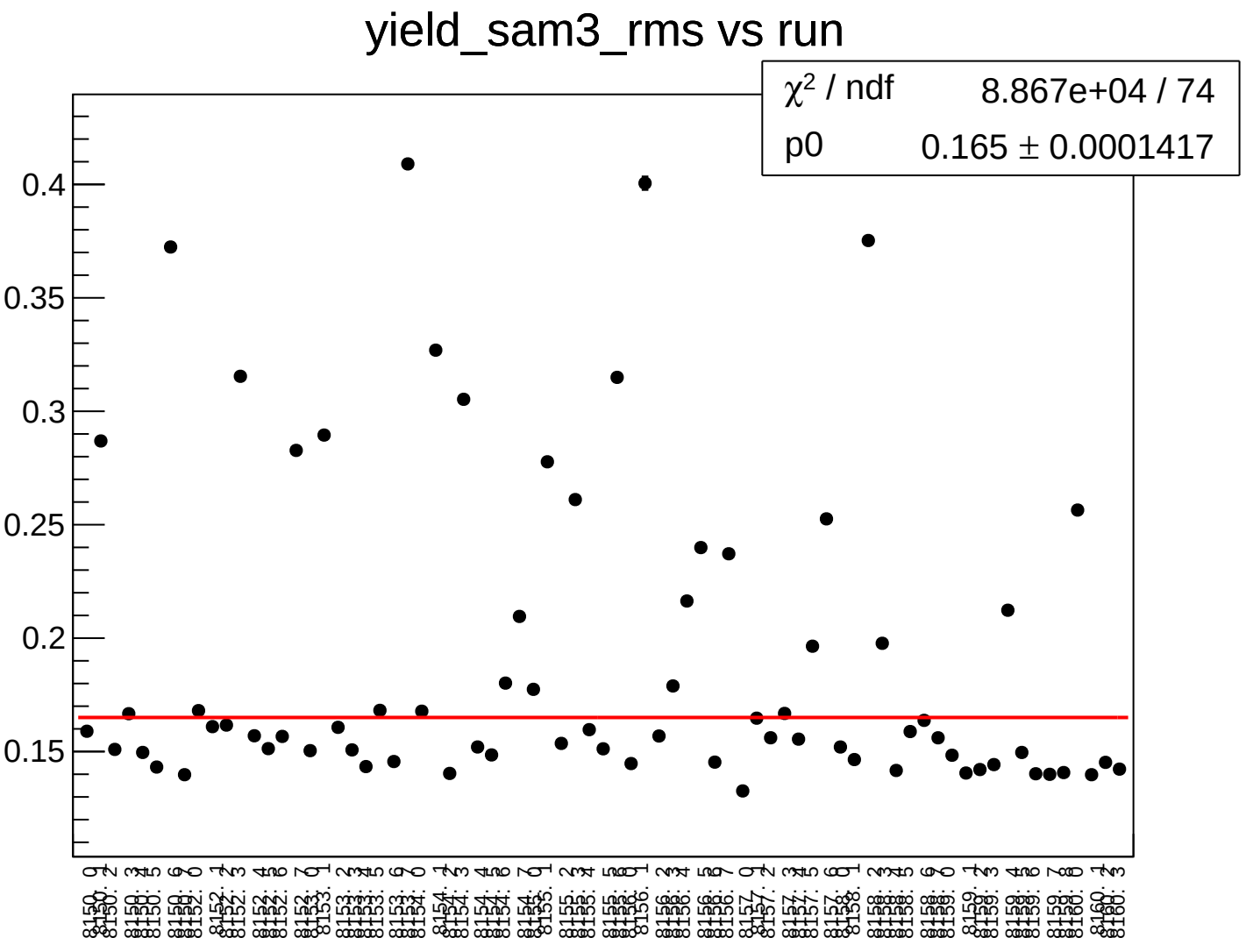

yield_sam2_mean vs run
χ² / ndf 2.579e+04 / 74
p0 24.03 ± 0.0003213
24.15
24.1
24.05
24
23.95
23.9
pull
Entries 75
Mean 203.6
Std Dev 187.9
40
20
0
−20
−40
−60

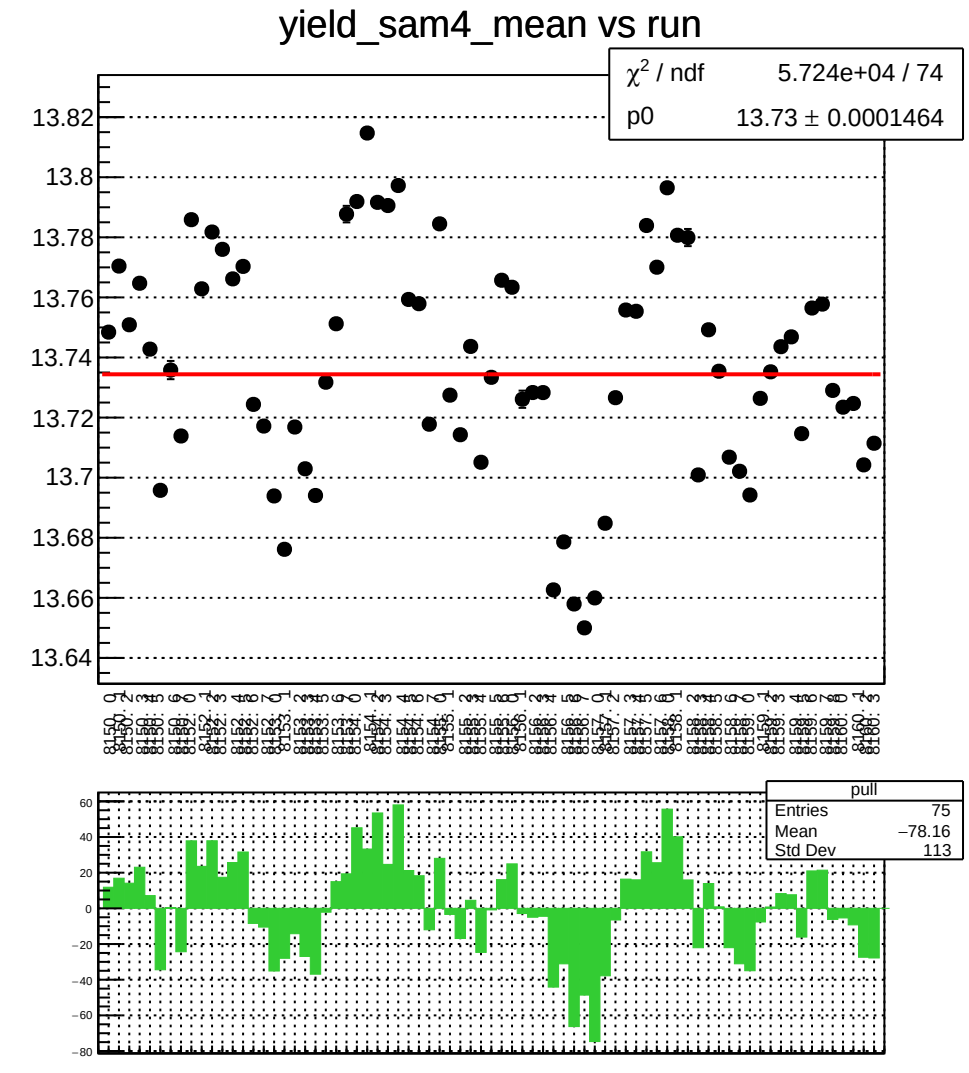

pull1D
Entries 75
Mean 0.6182
Std Dev 4.561
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

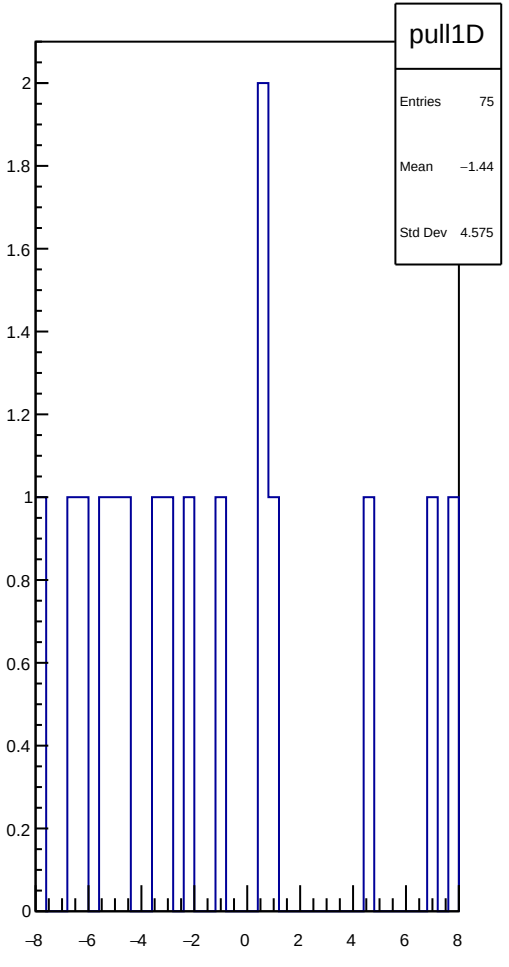

yield_sam2_rms vs run
χ² / ndf 8.68e+04 / 74
p0 0.2647 ± 0.0002272
0.7
0.6
0.5
0.4
0.3
0.2

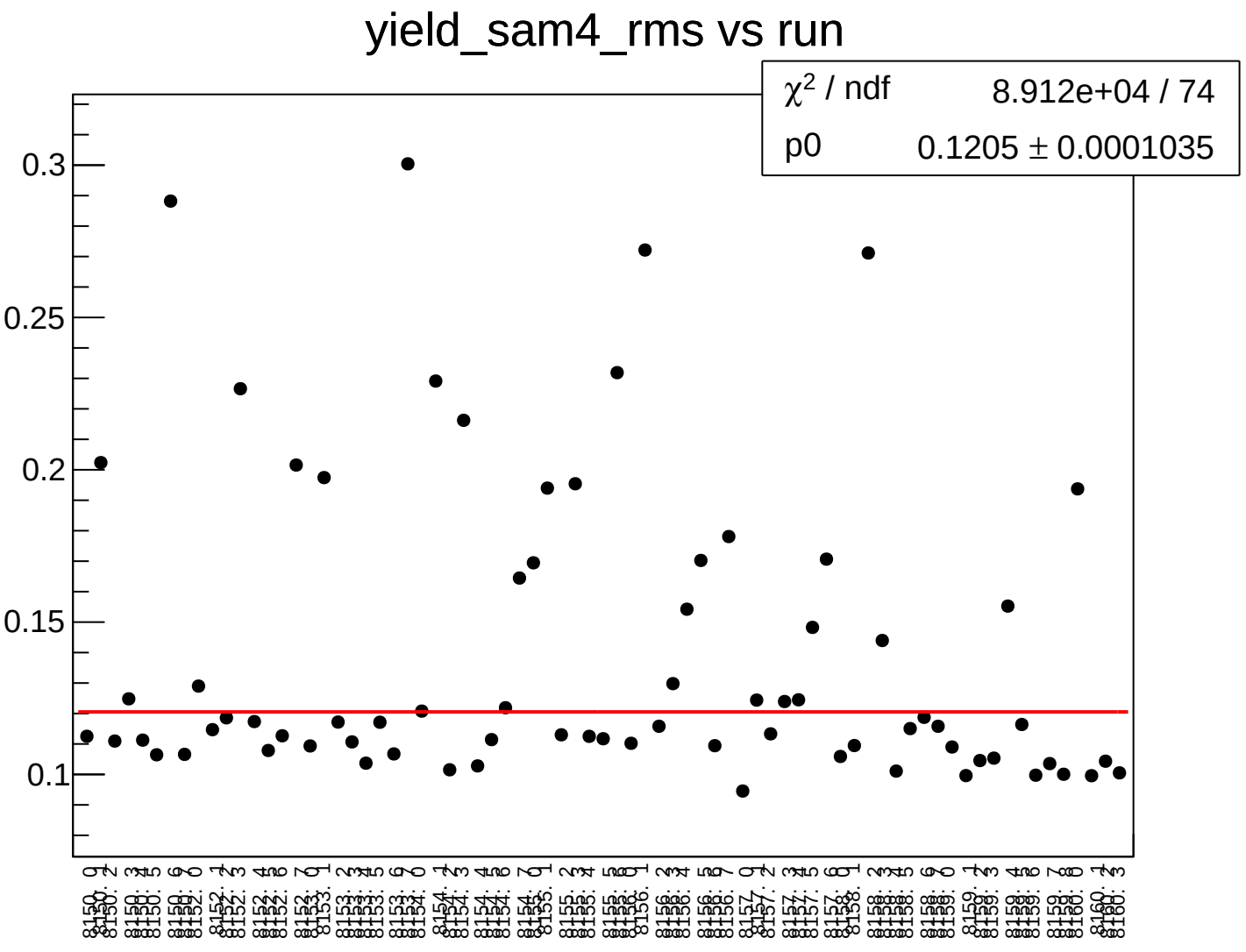

yield_sam3_mean vs run
χ² / ndf 5.307e+04 / 74
p0 24.02 ± 0.0002004
24.15
24.1
24.05
24
23.95
23.9
pull
Entries 75
Mean −269.6
Std Dev 306.1
60
40
20
0
−20
−40

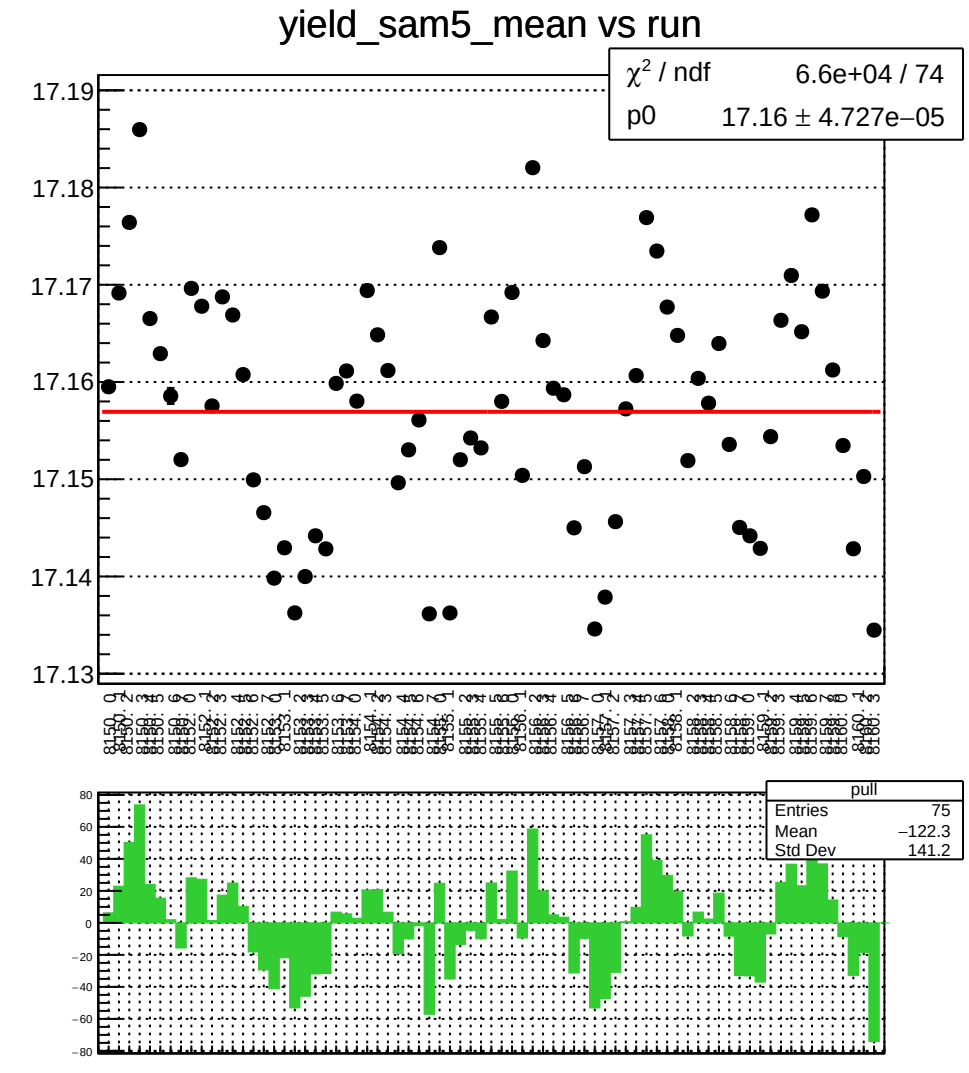

pull1D
Entries 75
Mean 0.05151
Std Dev 5.169
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

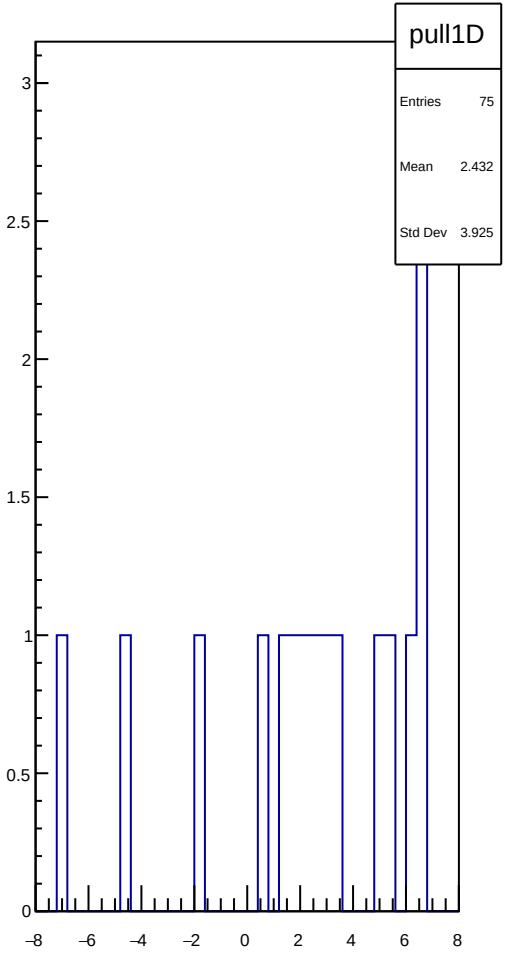

yield_sam3_rms vs run
χ² / ndf 8.867e+04 / 74
p0 0.165 ± 0.0001417
0.4
0.35
0.3
0.25
0.2
0.15

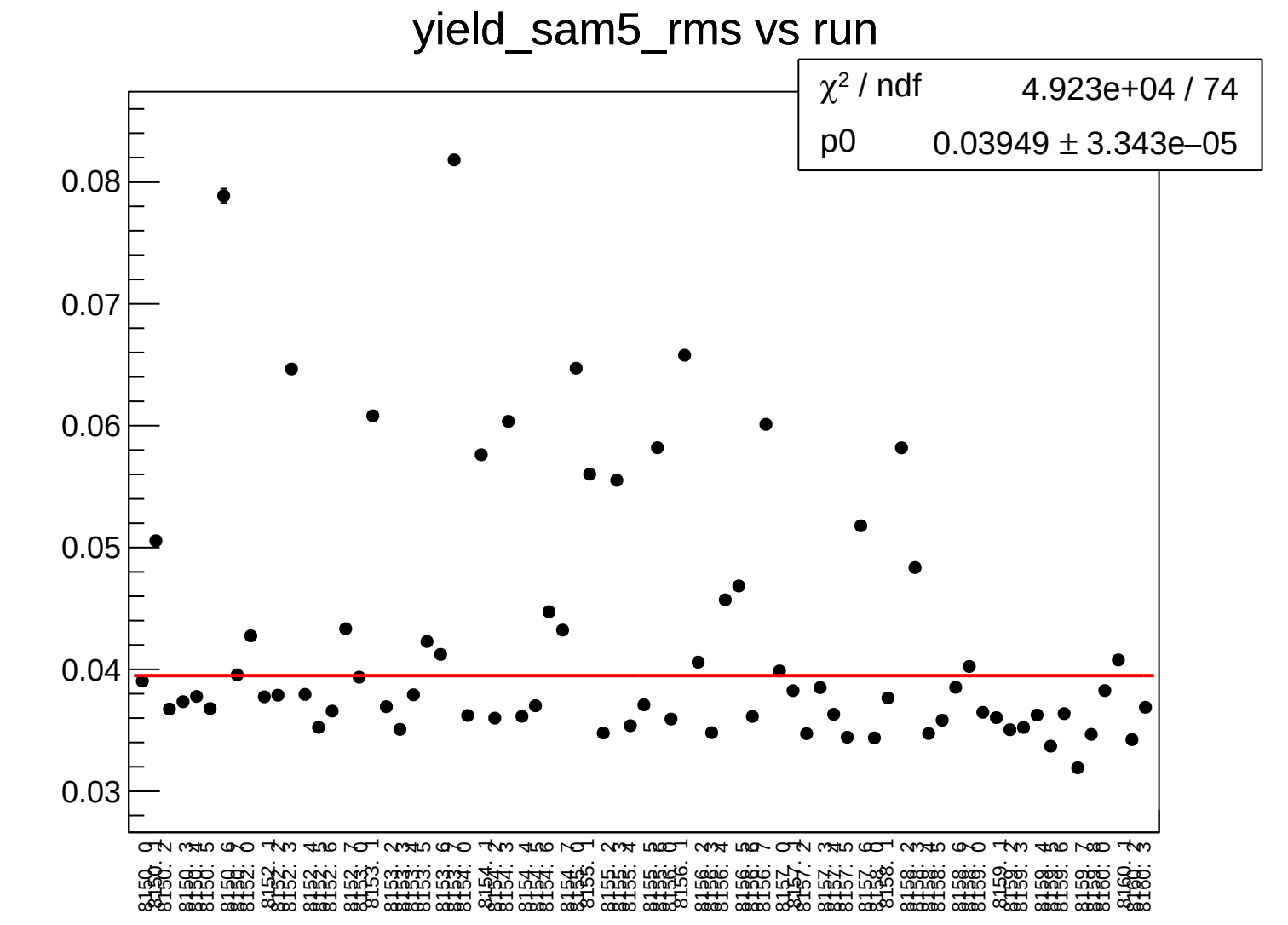

yield_sam4_mean vs run
χ² / ndf 5.724e+04 / 74
p0 13.73 ± 0.0001464
13.82
13.8
13.78
13.76
13.74
13.72
13.7
13.68
13.66
13.64
pull
Entries 75
Mean −78.16
Std Dev 113
60
40
20
0
−20
−40
−60
−80

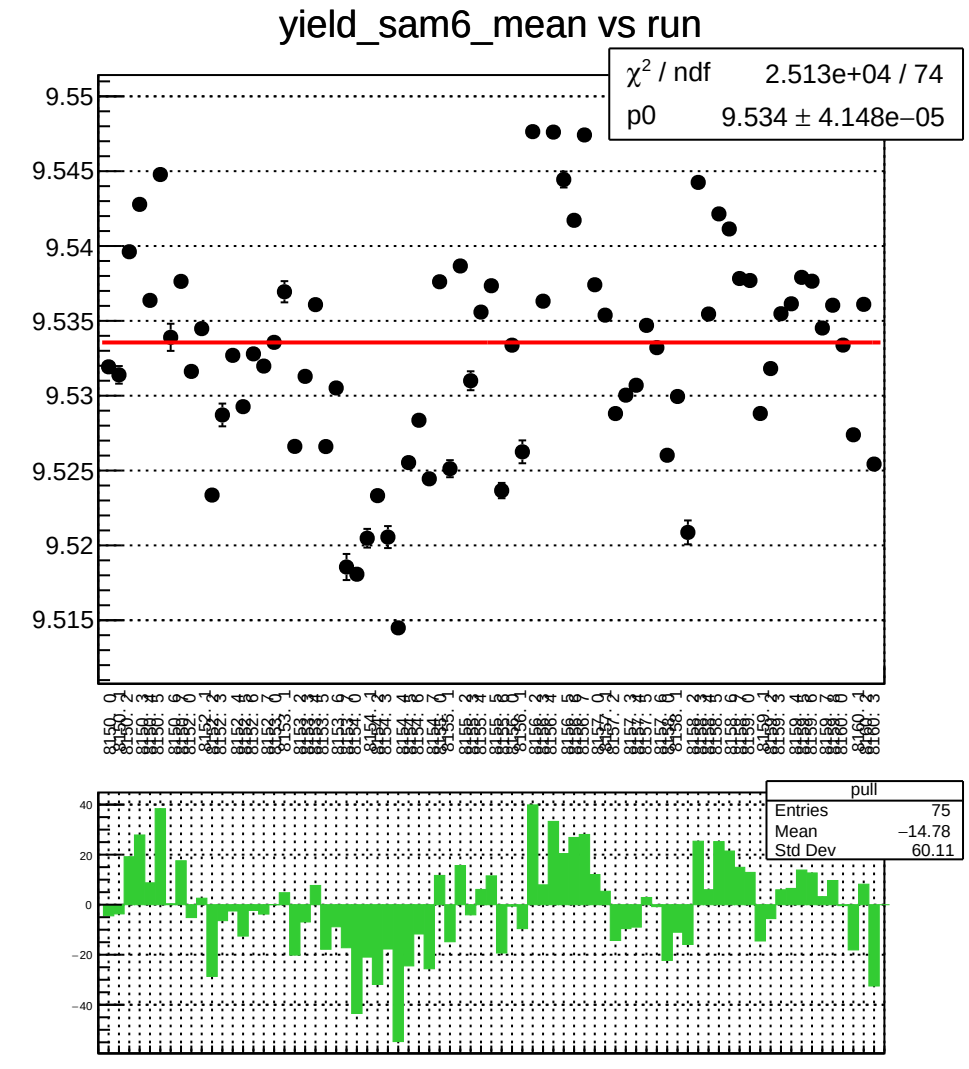

pull1D
Entries 75
Mean −1.44
Std Dev 4.575
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

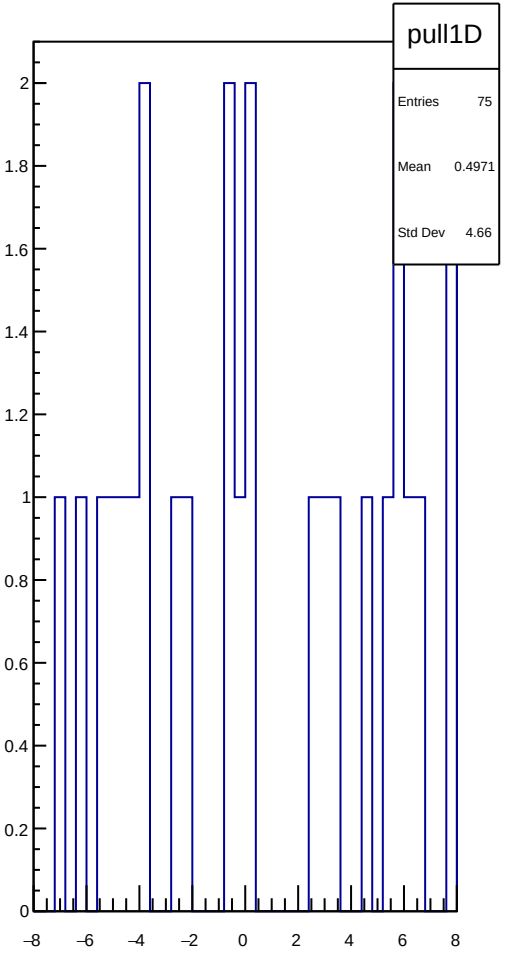

yield_sam4_rms vs run
χ² / ndf 8.912e+04 / 74
p0 0.1205 ± 0.0001035
0.3
0.25
0.2
0.15
0.1

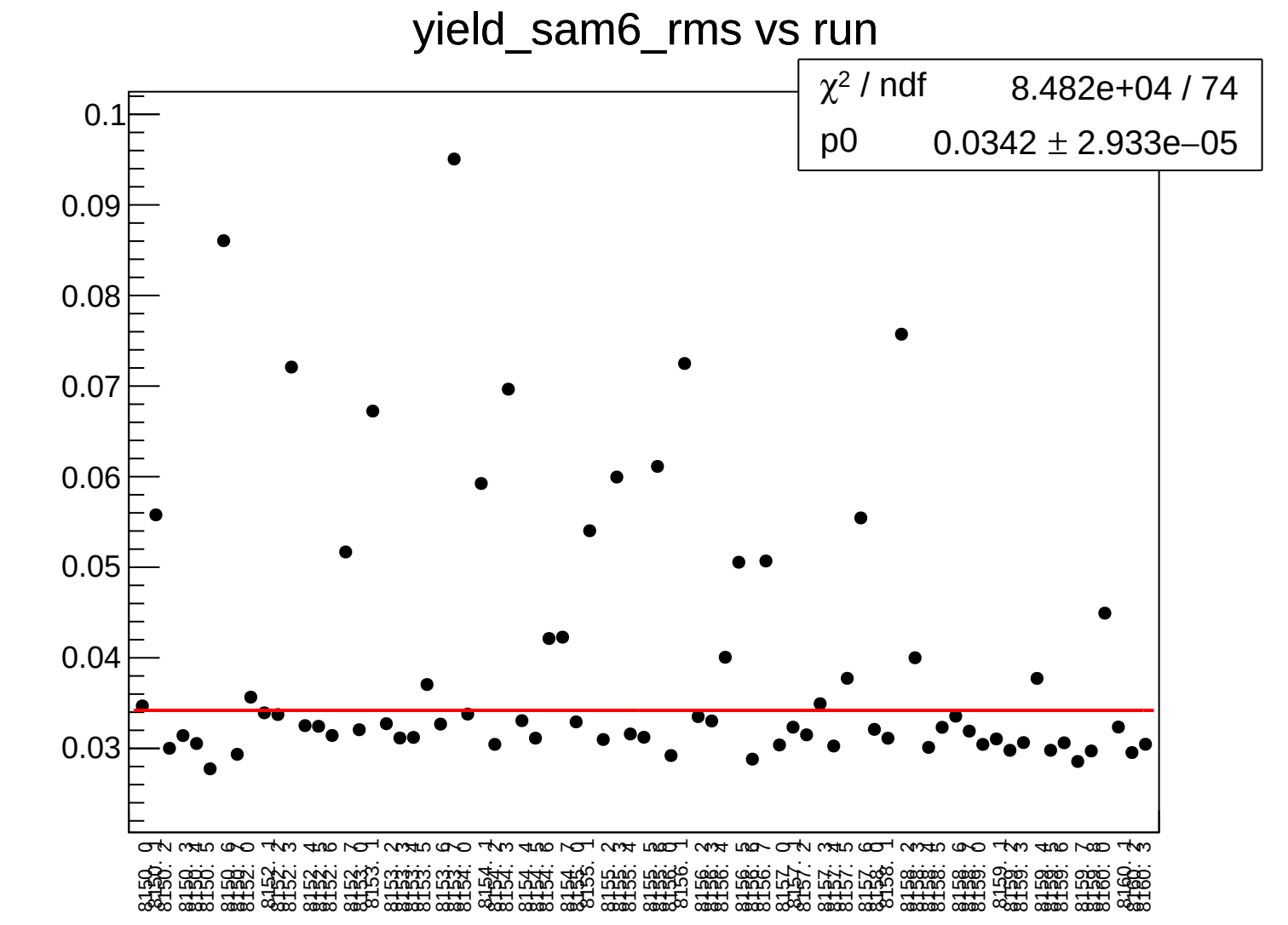

yield_sam5_mean vs run
χ² / ndf 6.6e+04 / 74
p0 17.16 ± 4.727e−05
17.19
17.18
17.17
17.16
17.15
17.14
17.13
pull
Entries 75
Mean −122.3
Std Dev 141.2
80
60
40
20
0
−20
−40
−60
−80

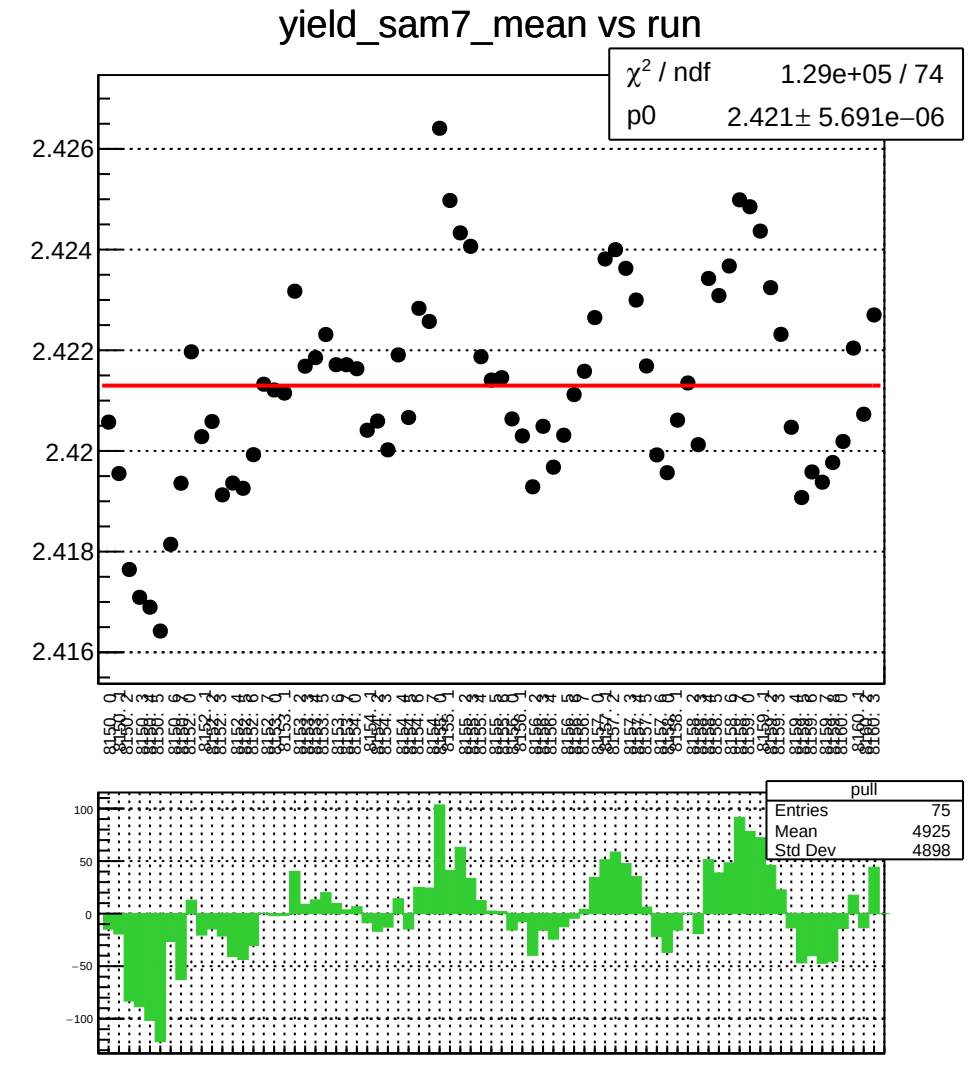

pull1D
Entries 75
Mean 2.432
Std Dev 3.925
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

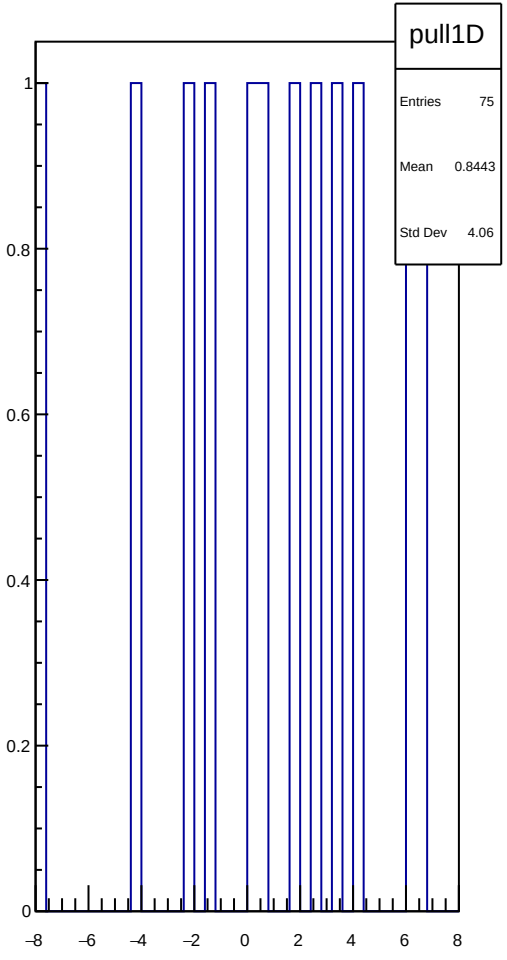

yield_sam5_rms vs run
χ² / ndf 4.923e+04 / 74
p0 0.03949 ± 3.343e−05
0.08
0.07
0.06
0.05
0.04
0.03

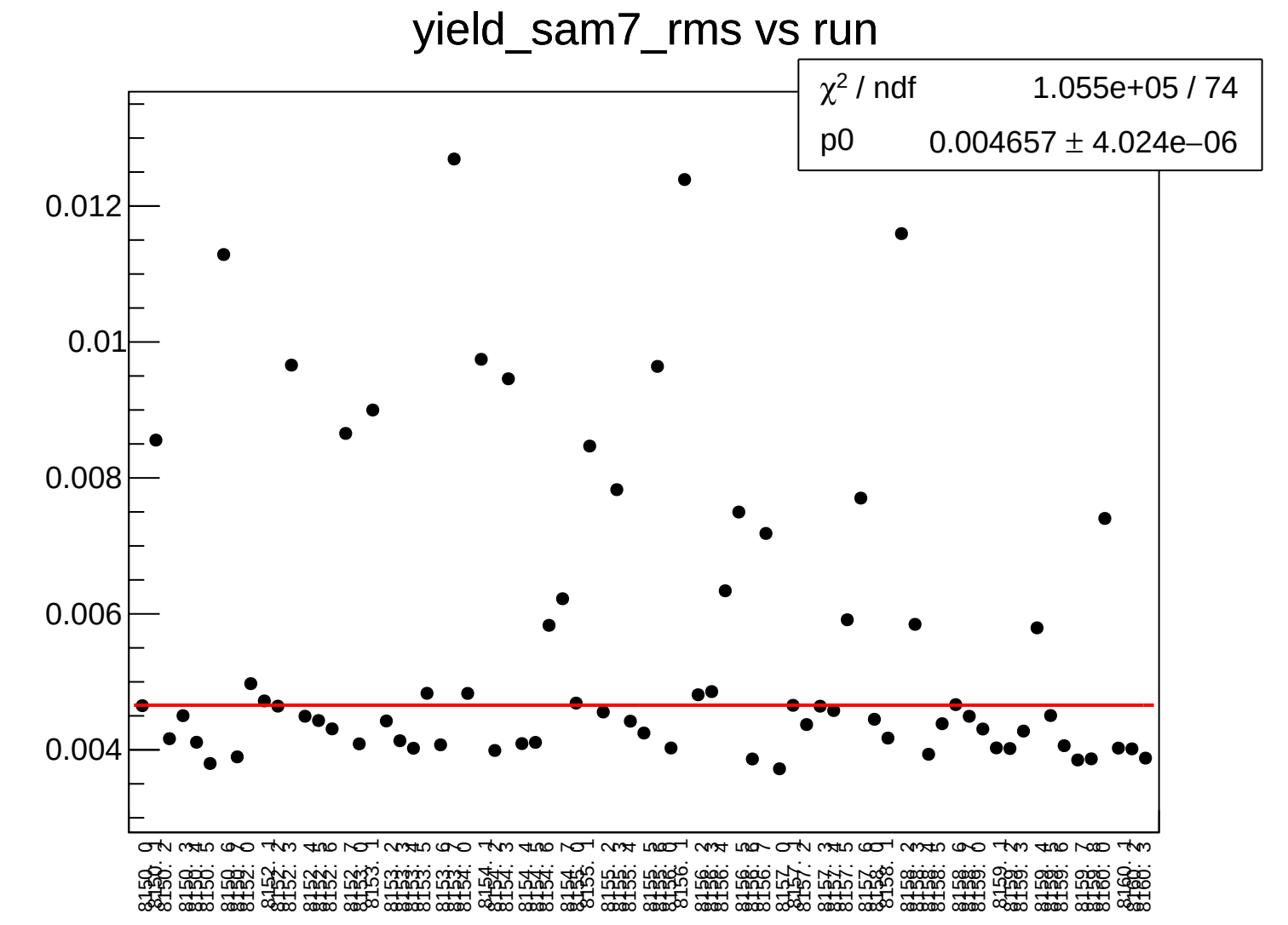

yield_sam6_mean vs run
χ² / ndf 2.513e+04 / 74
p0 9.534 ± 4.148e−05
9.55
9.545
9.54
9.535
9.53
9.525
9.52
9.515
pull
Entries 75
Mean −14.78
Std Dev 60.11
40
20
0
−20
−40

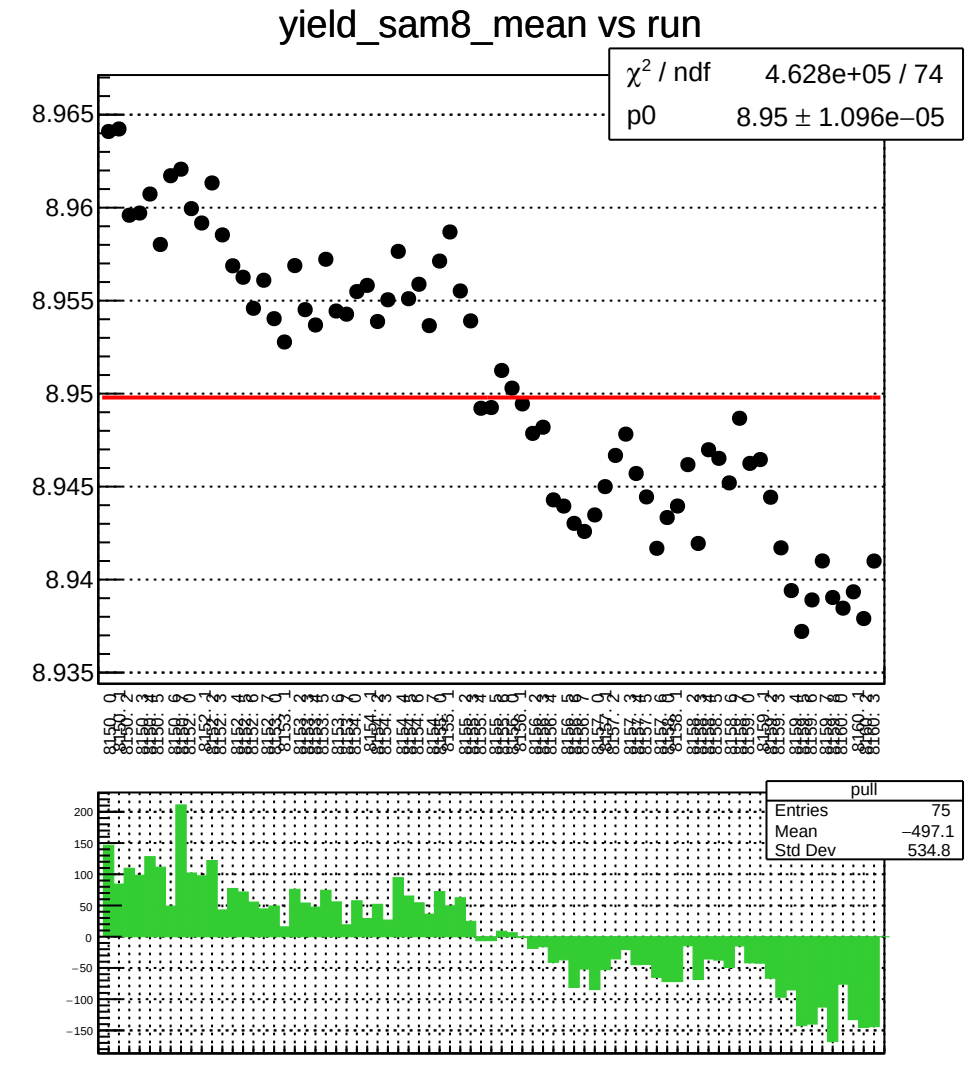

pull1D
Entries 75
Mean 0.4971
Std Dev 4.66
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

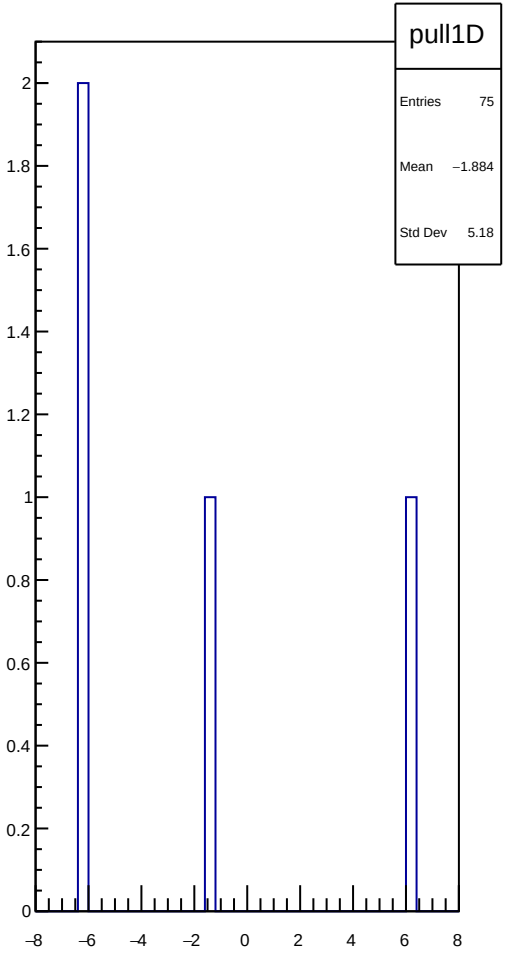

yield_sam6_rms vs run
χ² / ndf 8.482e+04 / 74
p0 0.0342 ± 2.933e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

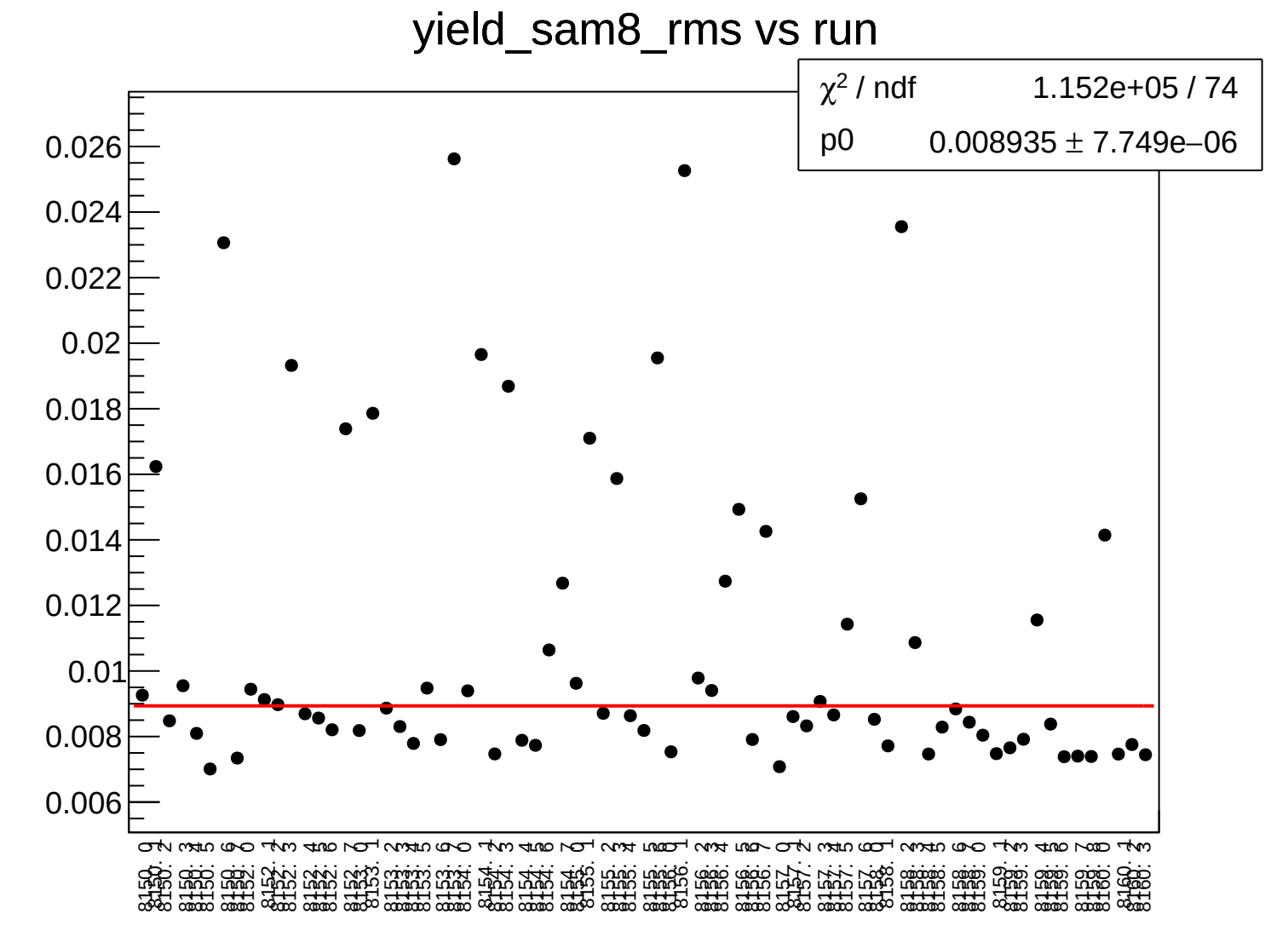

yield_sam7_mean vs run
χ² / ndf 1.29e+05 / 74
p0 2.421± 5.691e−06
2.426
2.424
2.422
2.42
2.418
2.416
pull
Entries 75
Mean 4925
Std Dev 4898
100
50
0
−50
−100

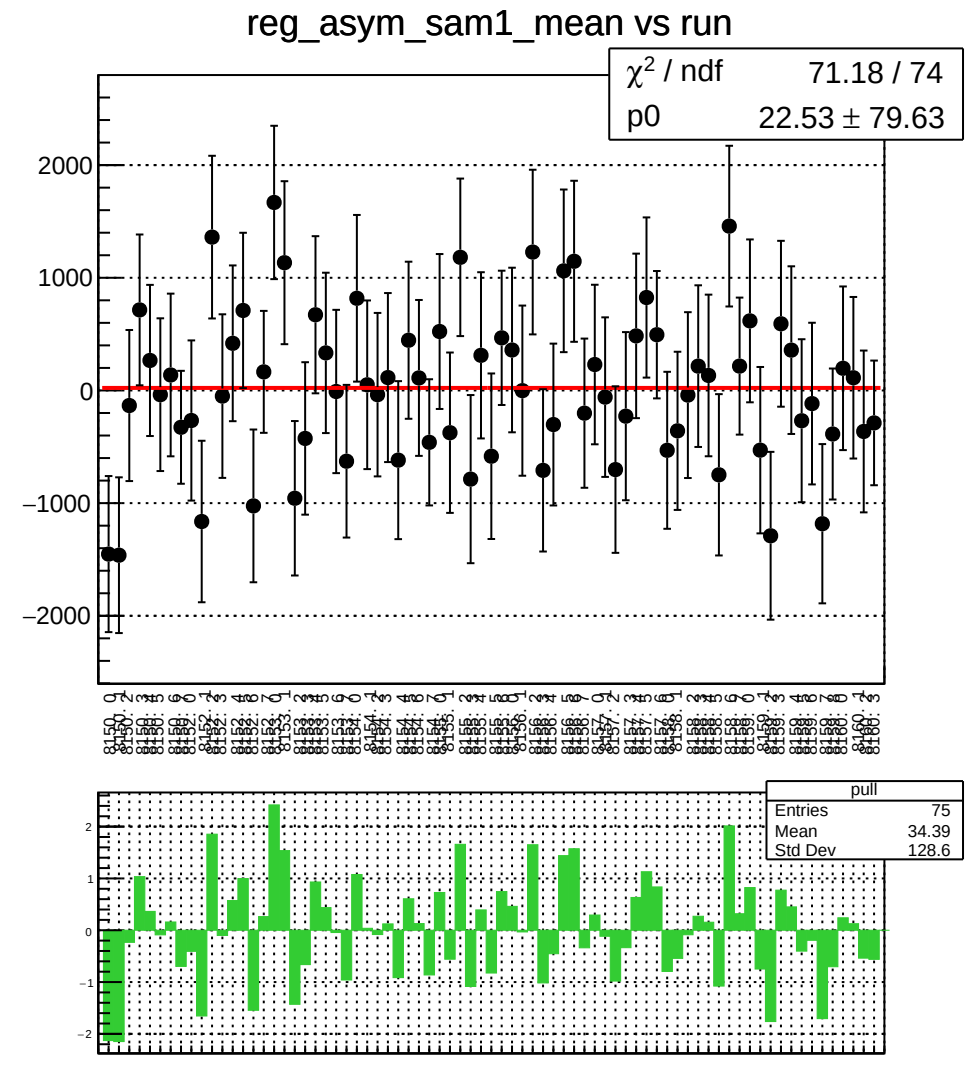

pull1D
Entries 75
Mean 0.8443
Std Dev 4.06
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

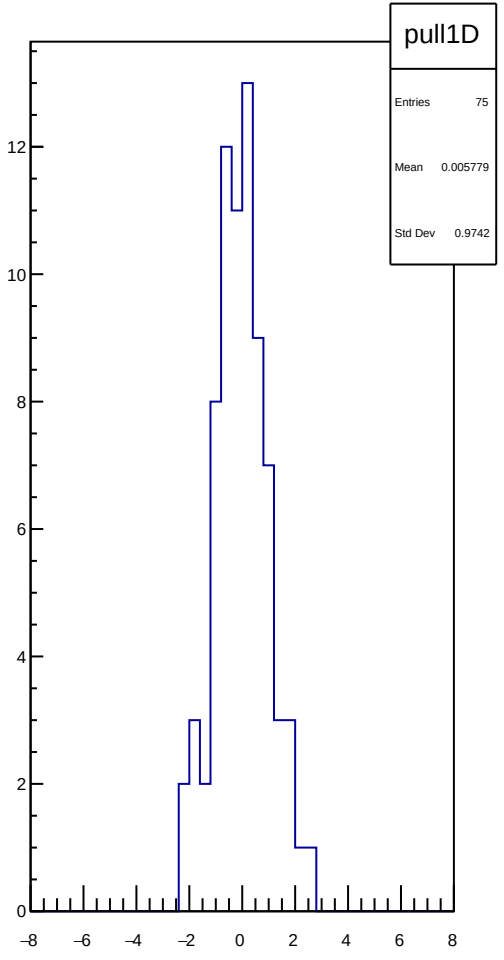

yield_sam7_rms vs run
χ² / ndf 1.055e+05 / 74
p0 0.004657 ± 4.024e−06
0.012
0.01
0.008
0.006
0.004

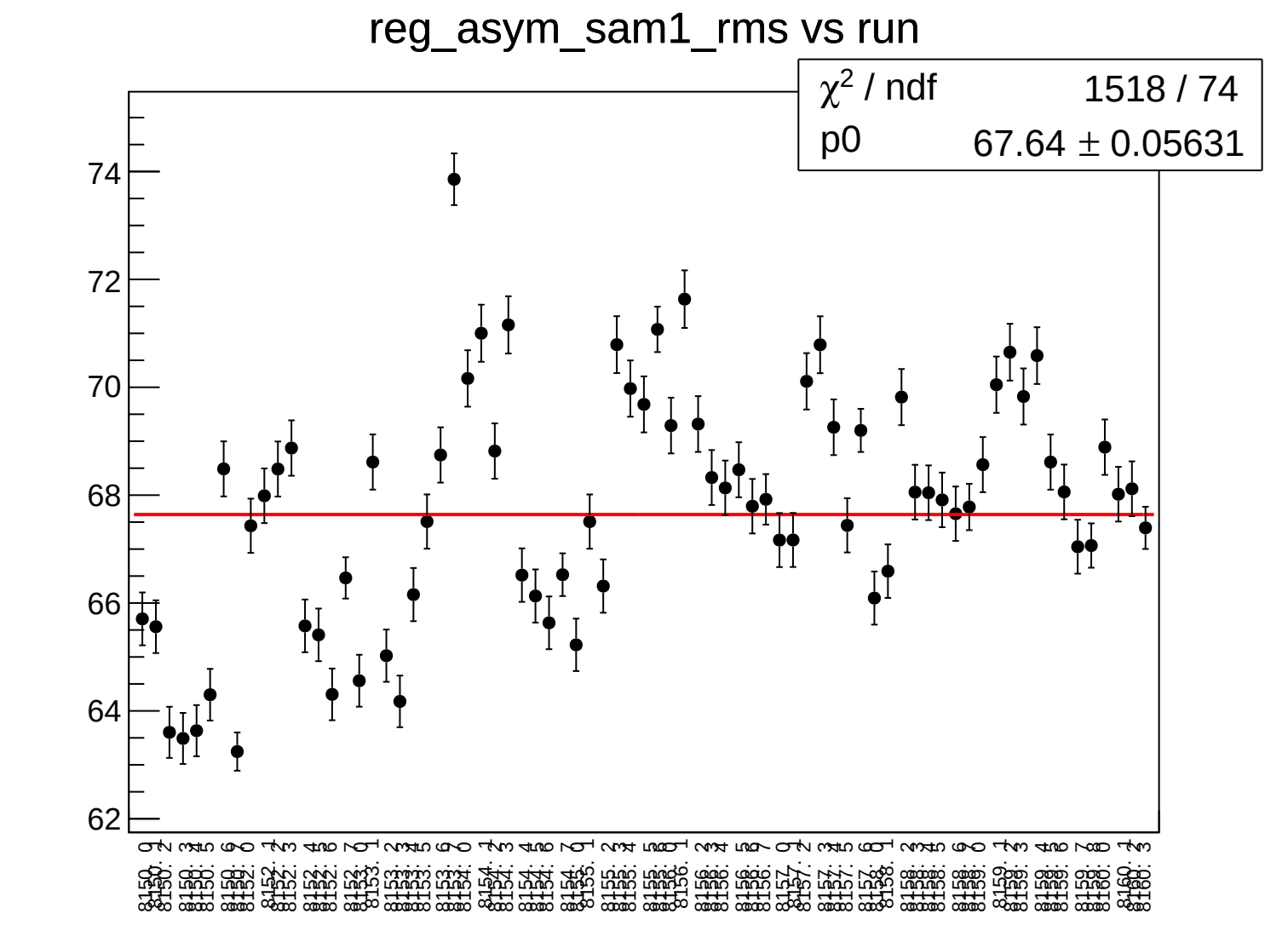

yield_sam8_mean vs run
χ² / ndf 4.628e+05 / 74
p0 8.95 ± 1.096e−05
8.965
8.96
8.955
8.95
8.945
8.94
8.935
pull
Entries 75
Mean −497.1
Std Dev 534.8
200
150
100
50
0
−50
−100
−150

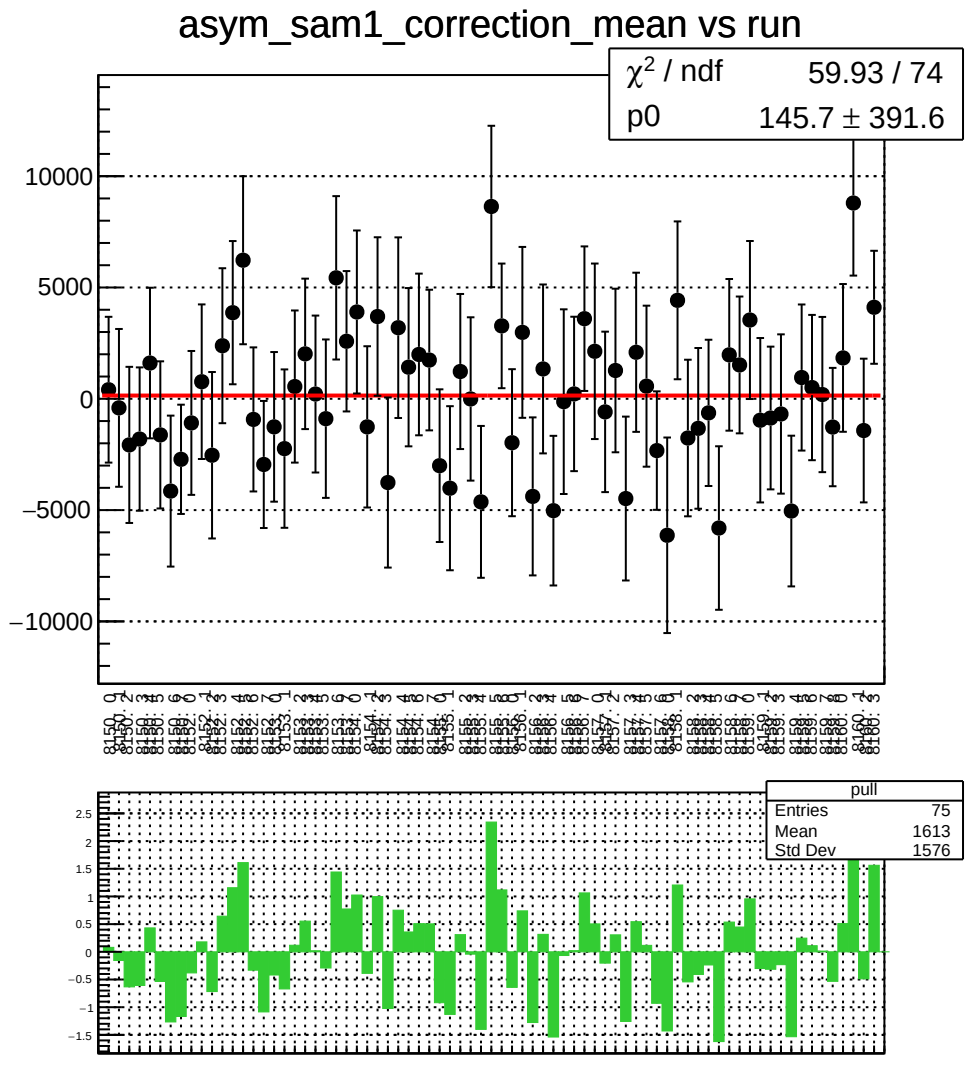

pull1D
Entries 75
Mean −1.884
Std Dev 5.18
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

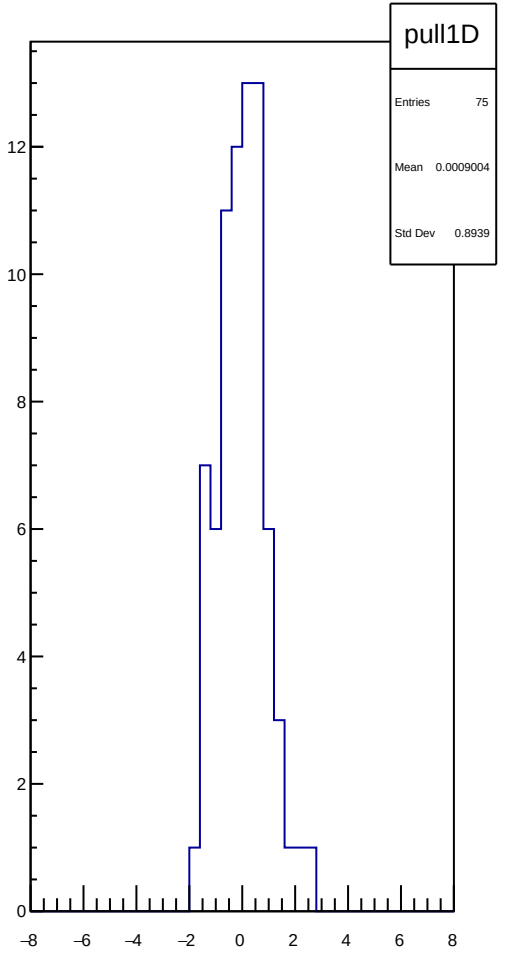

yield_sam8_rms vs run
χ² / ndf 1.152e+05 / 74
p0 0.008935 ± 7.749e−06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

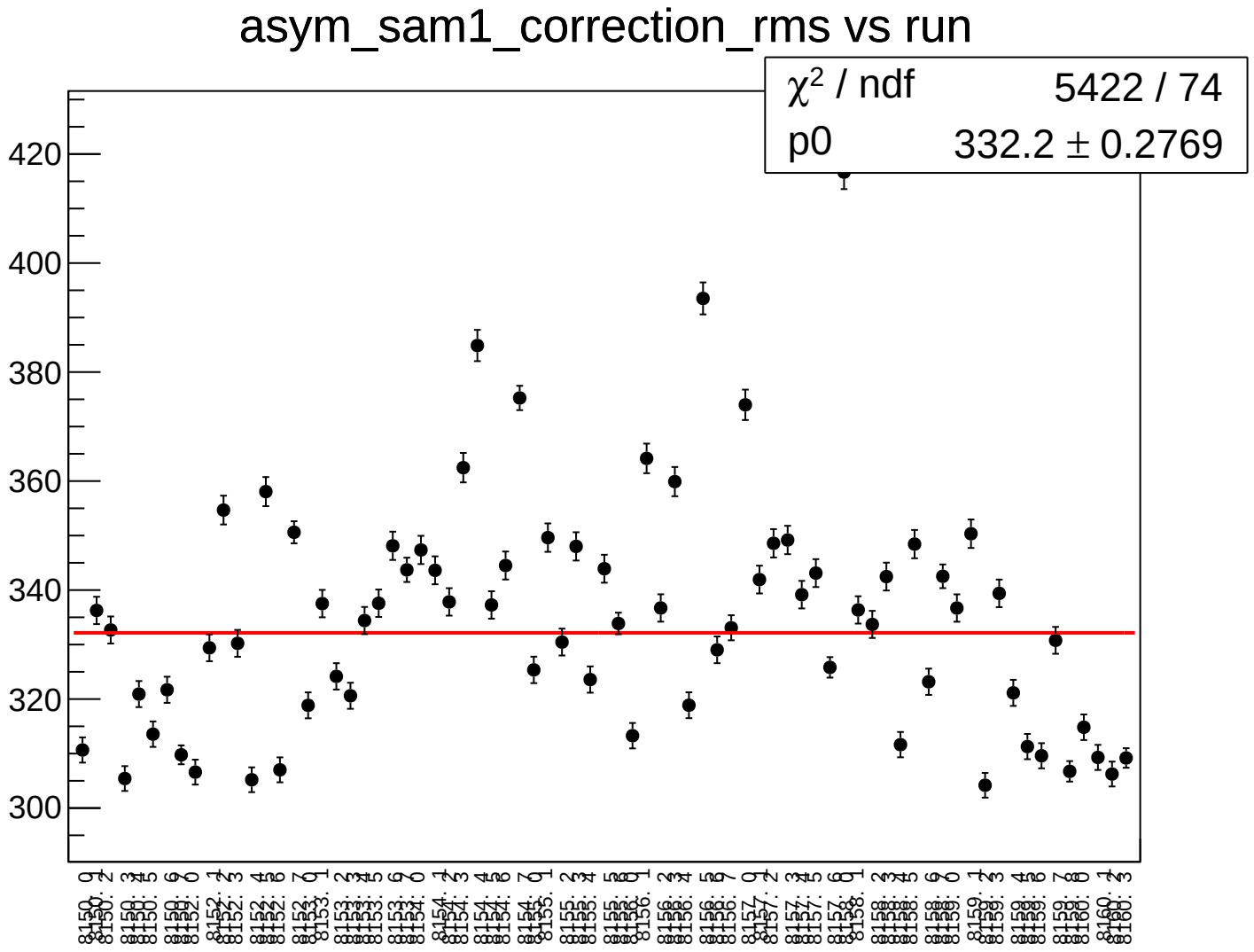

reg_asym_sam1_mean vs run
χ² / ndf 71.18 / 74
p0 22.53 ± 79.63
2000
1000
0
−1000
−2000
pull
Entries 75
Mean 34.39
Std Dev 128.6
2
1
0
−1
−2

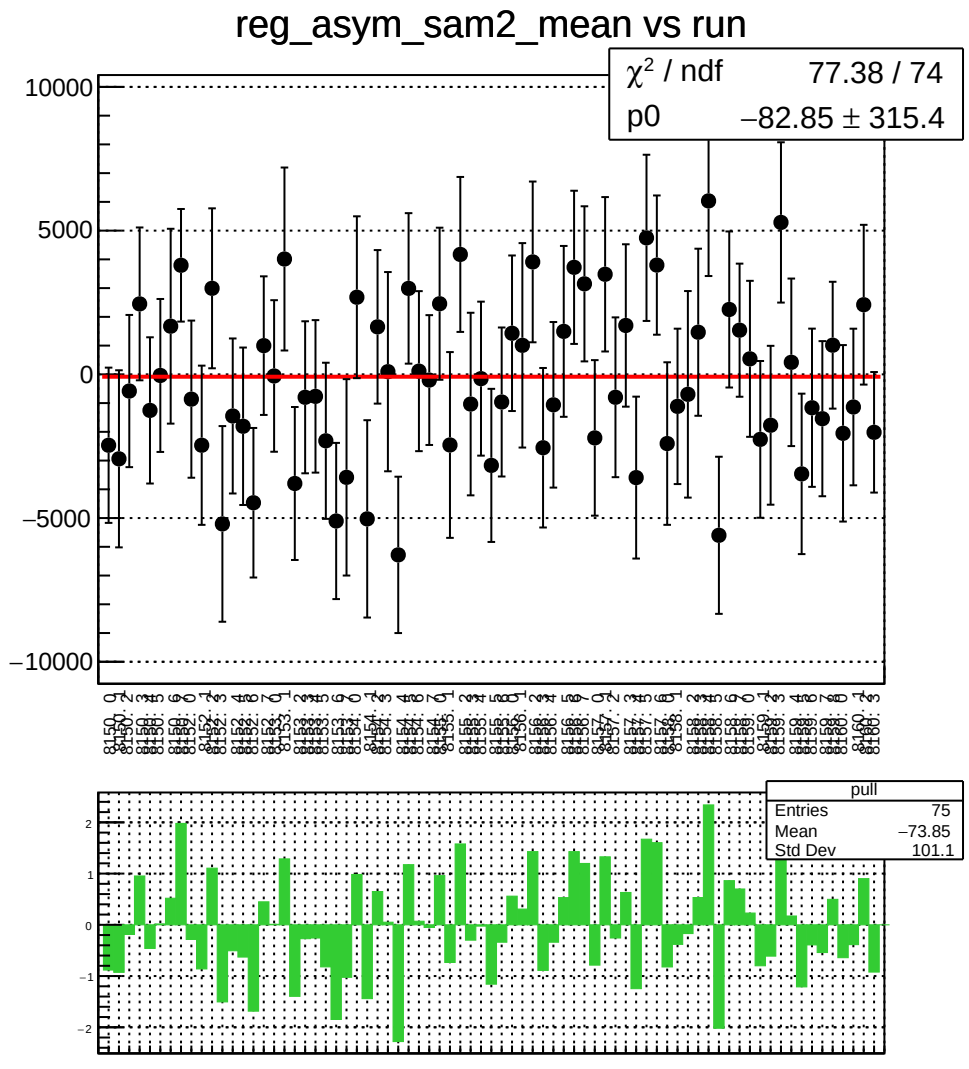

pull1D
Entries 75
Mean 0.005779
Std Dev 0.9742
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

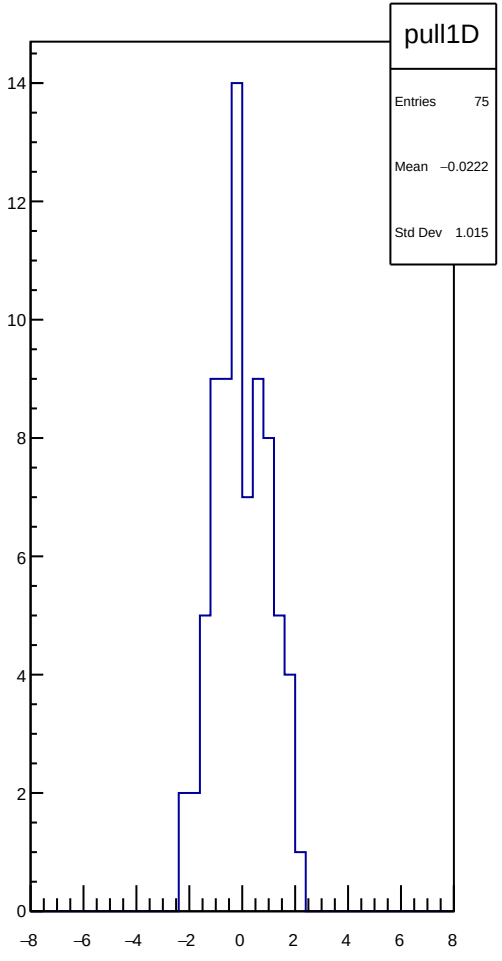

reg_asym_sam1_rms vs run
χ^2 / ndf 1518 / 74
p0 67.64 ± 0.05631
74
72
70
68
66
64
62

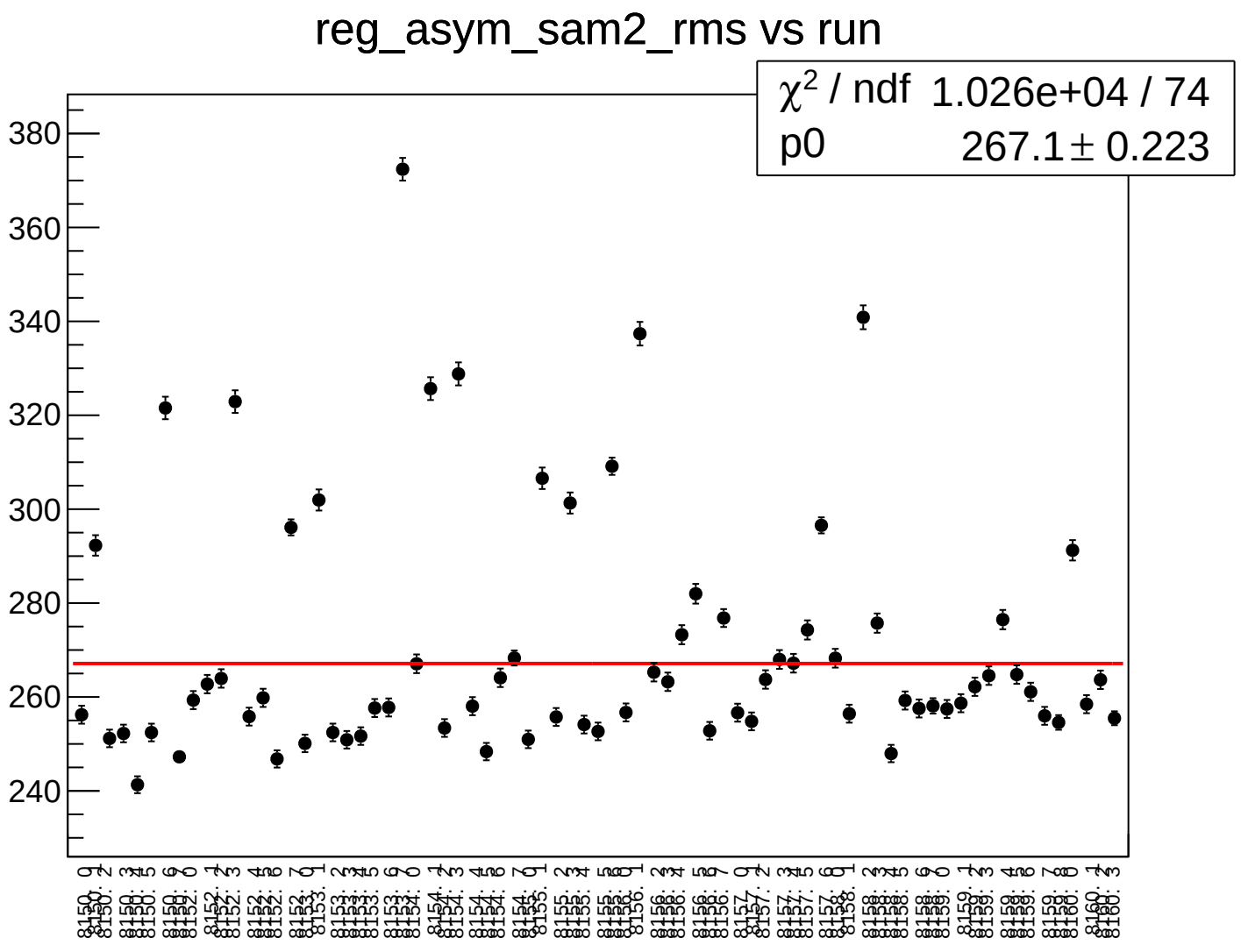

asym_sam1_correction_mean vs run
χ² / ndf 59.93 / 74
p0 145.7 ± 391.6
10000
5000
0
−5000
−10000
pull
Entries 75
Mean 1613
Std Dev 1576
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

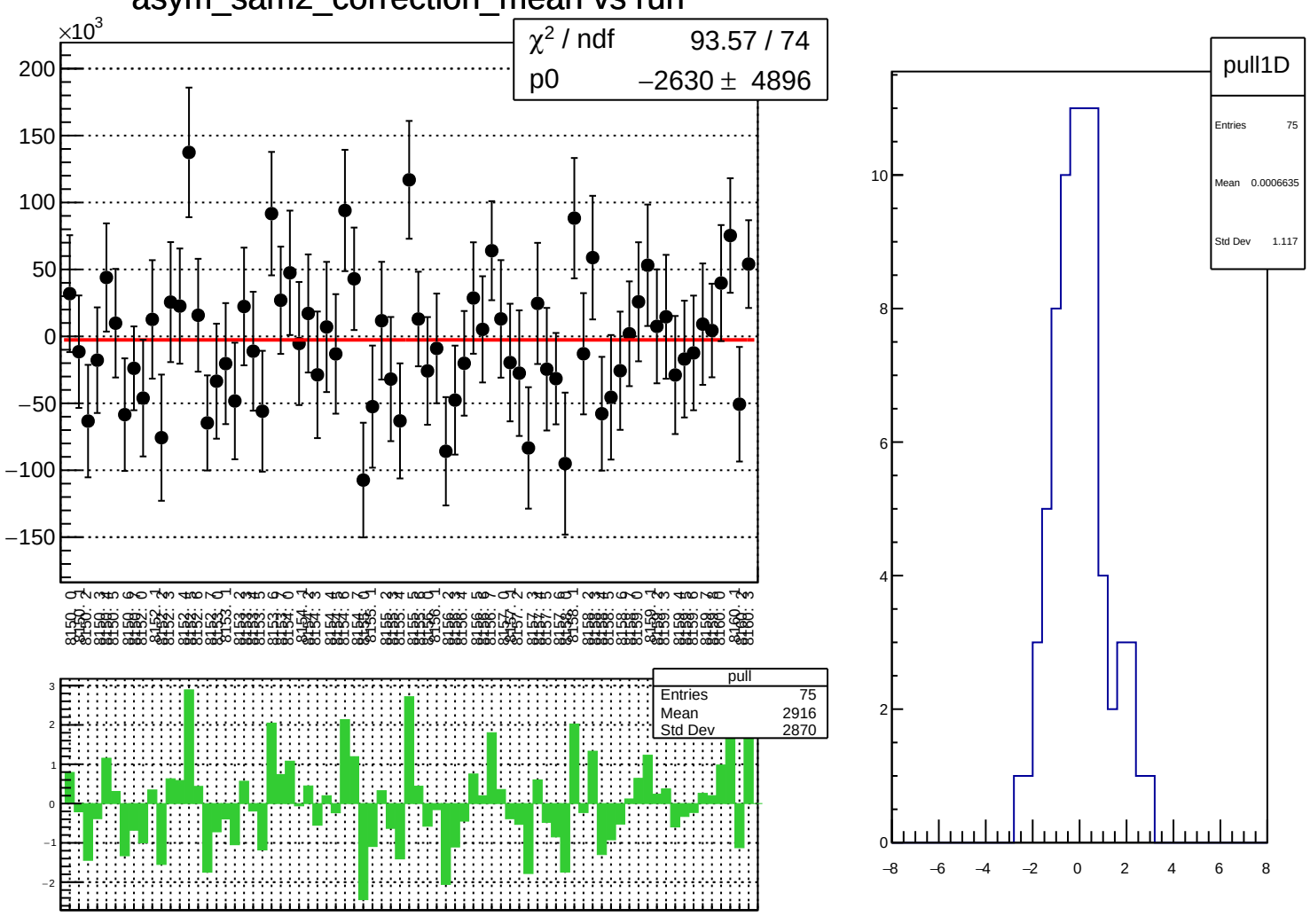

pull1D
Entries 75
Mean 0.0009004
Std Dev 0.8939
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

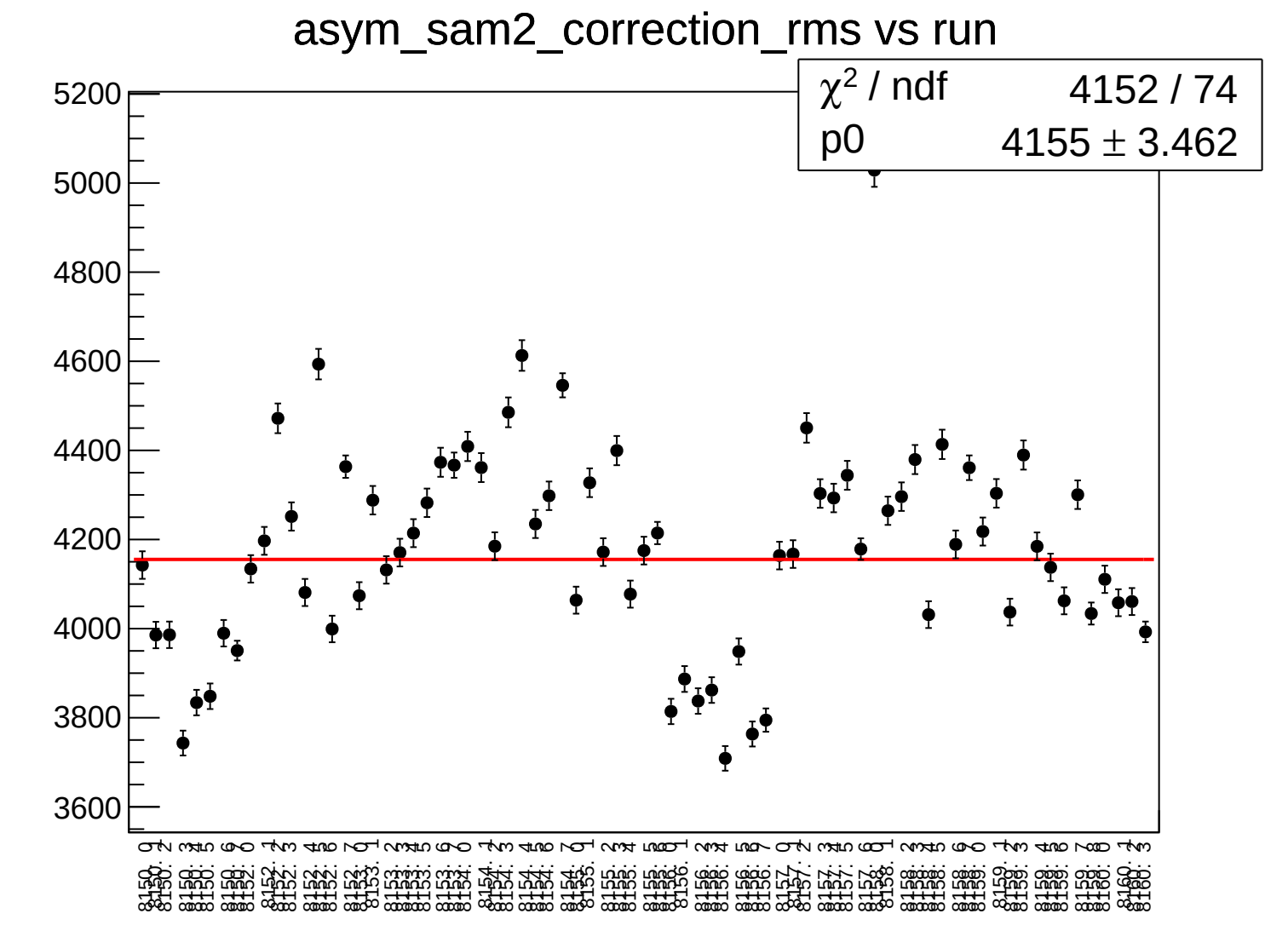

asym_sam1_correction_rms vs run
χ² / ndf 5422 / 74
p0 332.2 ± 0.2769
420
400
380
360
340
320
300

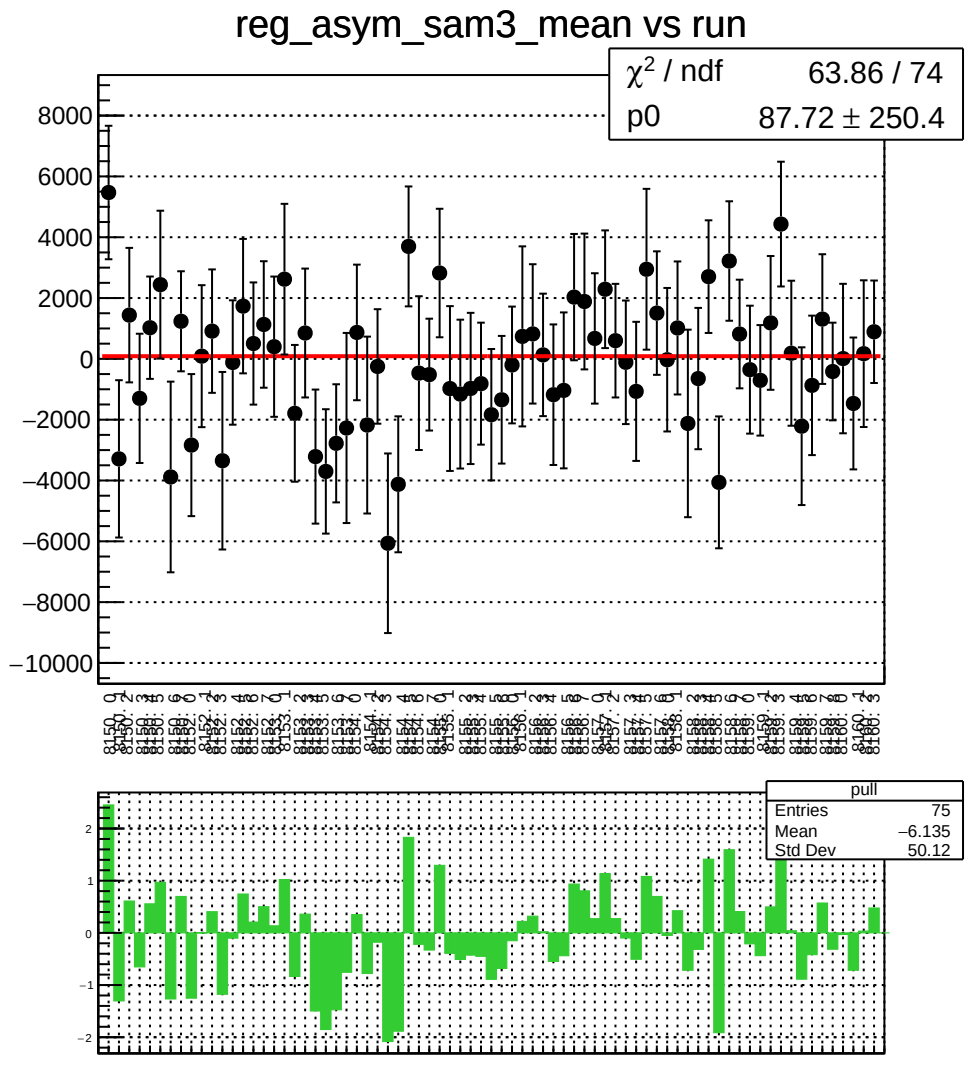

reg_asym_sam2_mean vs run
χ² / ndf 77.38 / 74
p0 −82.85 ± 315.4
10000
5000
0
−5000
−10000
pull
Entries 75
Mean −73.85
Std Dev 101.1
2
1
0
−1
−2

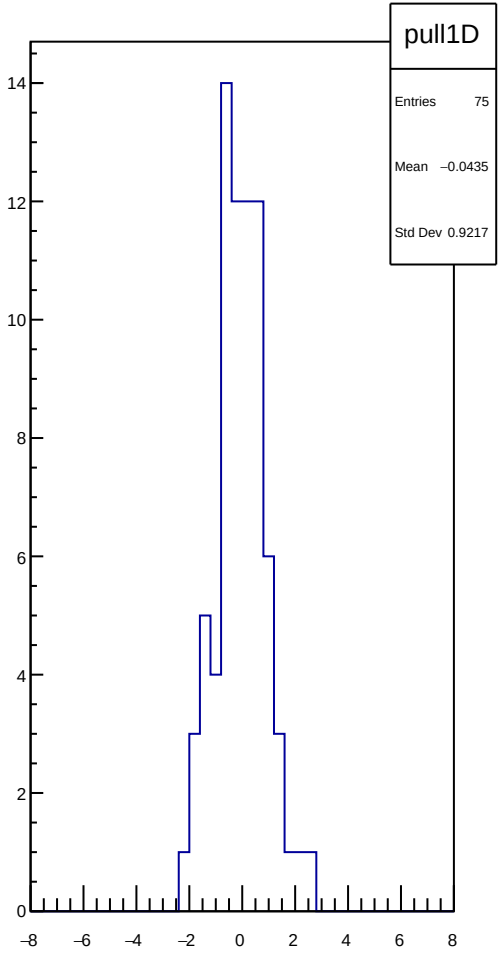

pull1D
Entries 75
Mean −0.0222
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

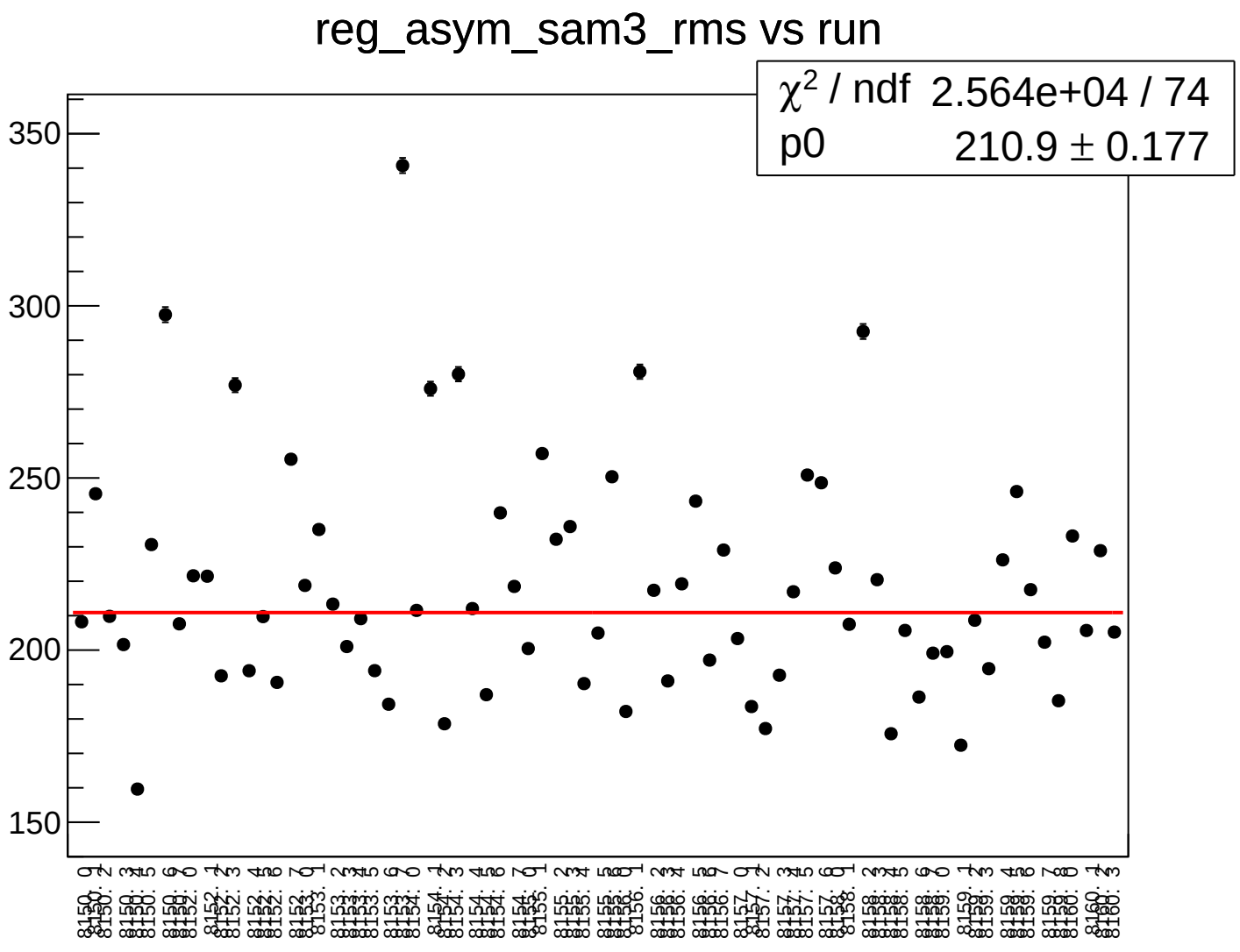

reg_asym_sam2_rms vs run
χ^2 / ndf 1.026e+04 / 74
p0 267.1 ± 0.223
380
360
340
320
300
280
260
240

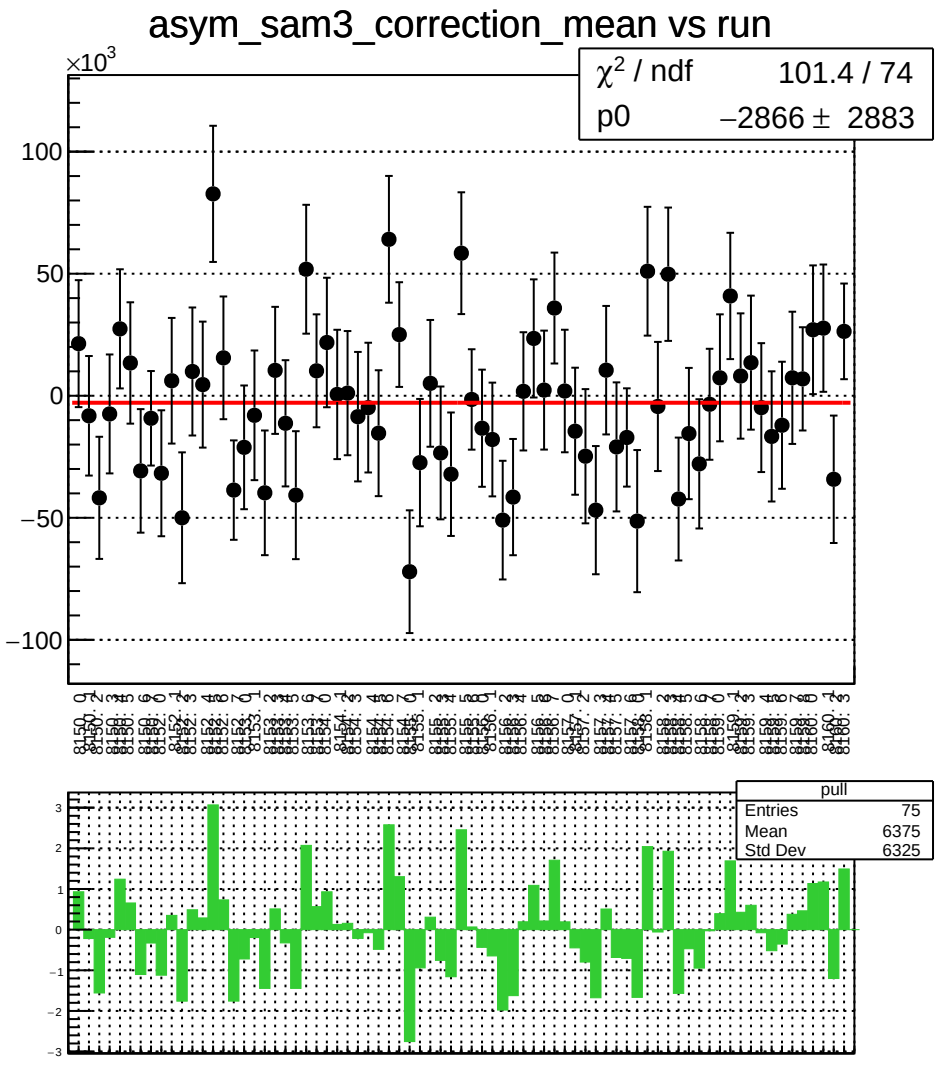

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 93.57 / 74
p0 −2630 ± 4896
pull
Entries 75
Mean 2916
Std Dev 2870
pull1D
Entries 75
Mean 0.0006635
Std Dev 1.117

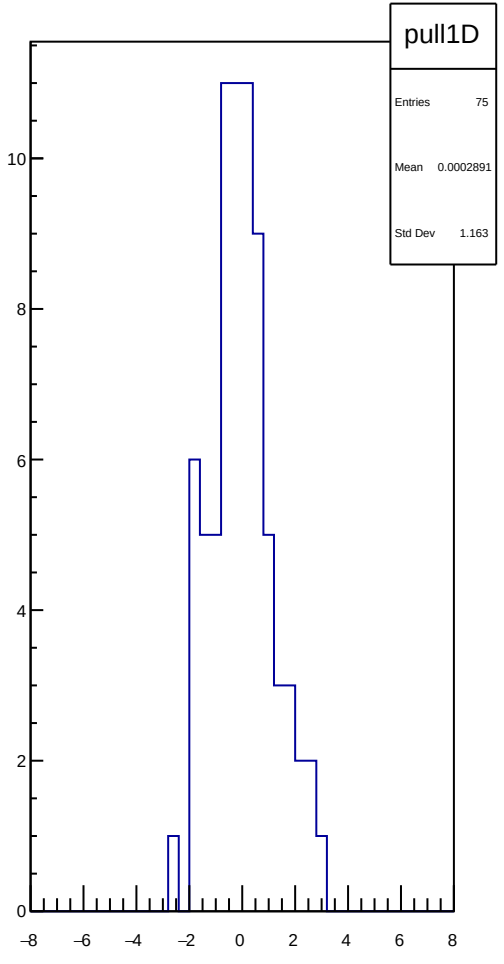

asym_sam2_correction_rms vs run
χ² / ndf 4152 / 74
p0 4155 ± 3.462
5200
5000
4800
4600
4400
4200
4000
3800
3600

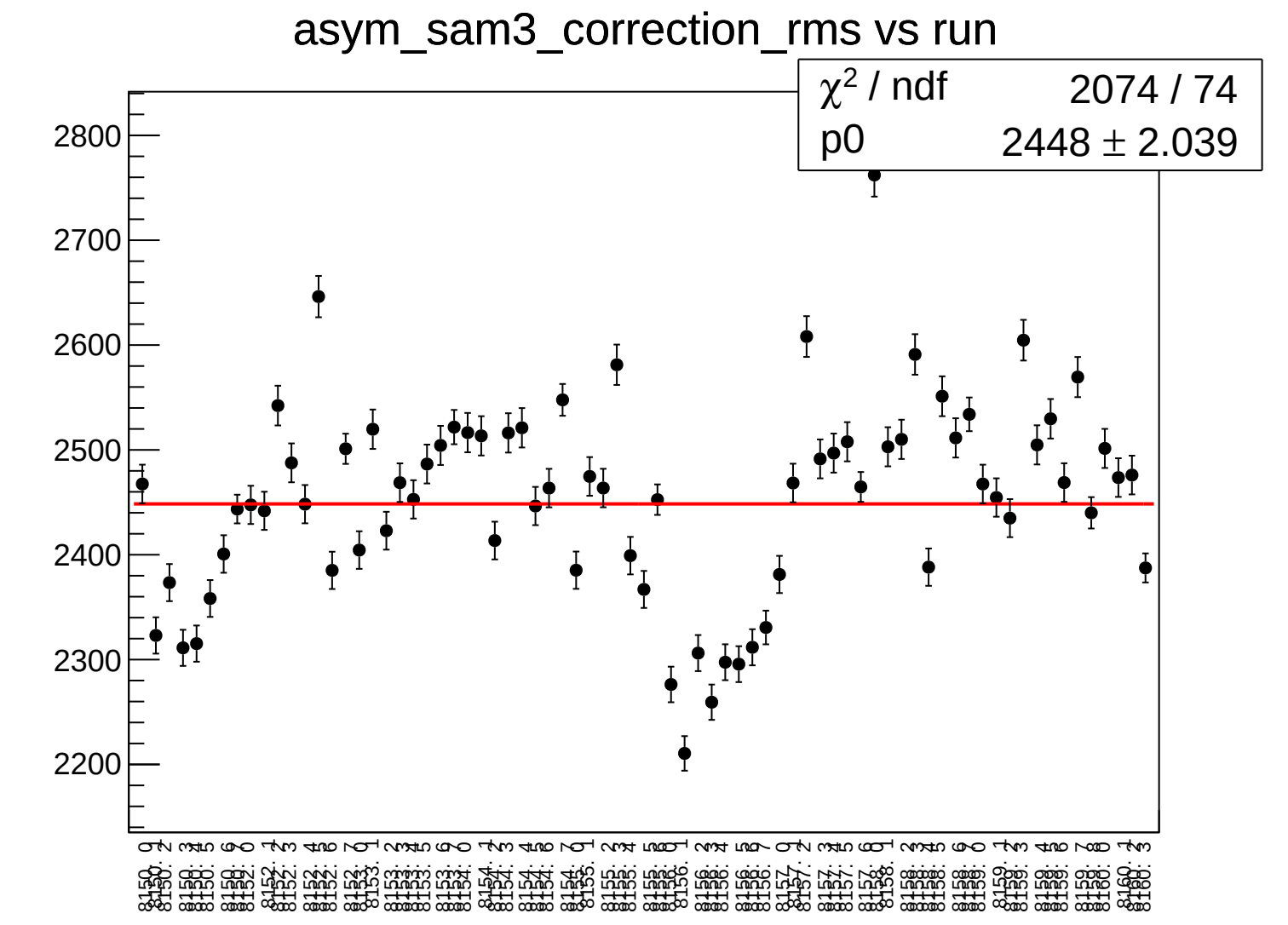

reg_asym_sam3_mean vs run
χ² / ndf 63.86 / 74
p0 87.72 ± 250.4
pull
Entries 75
Mean −6.135
Std Dev 50.12

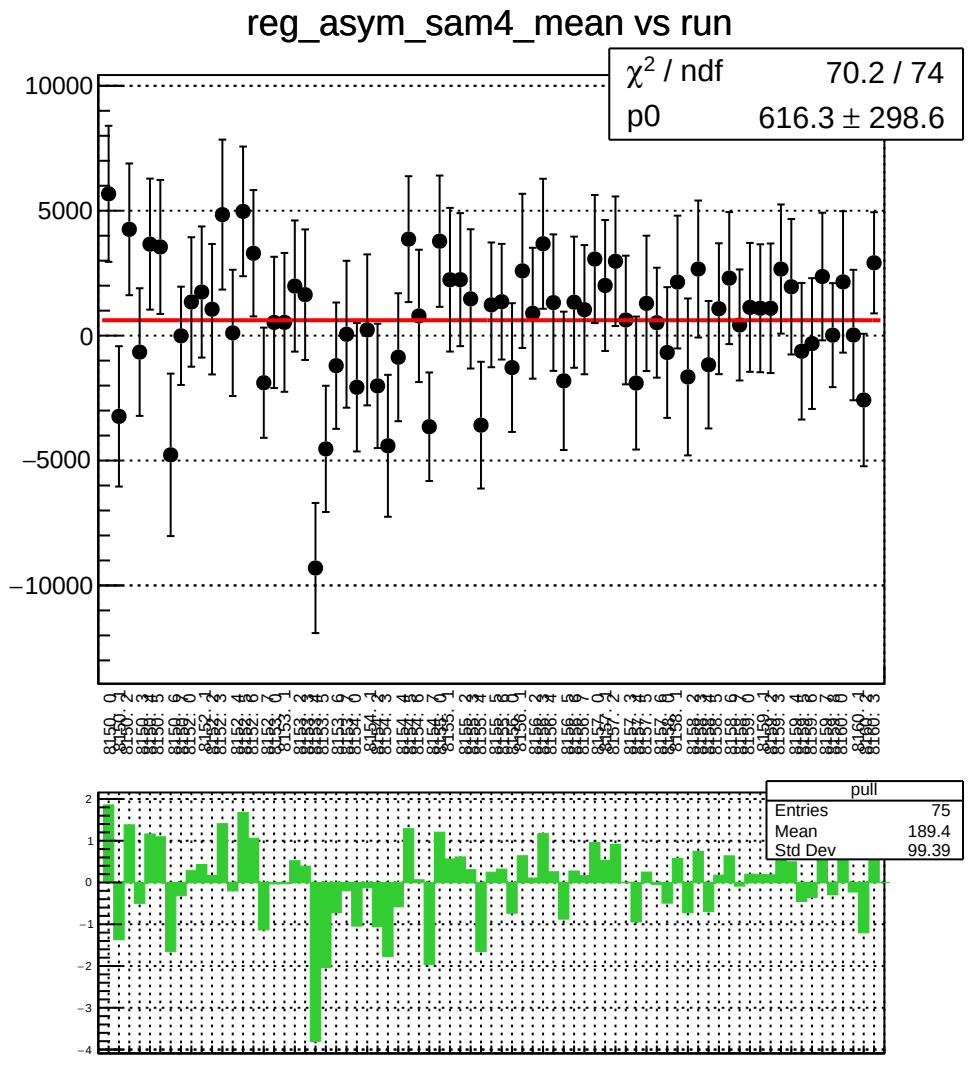

pull1D
Entries 75
Mean −0.0435
Std Dev 0.9217

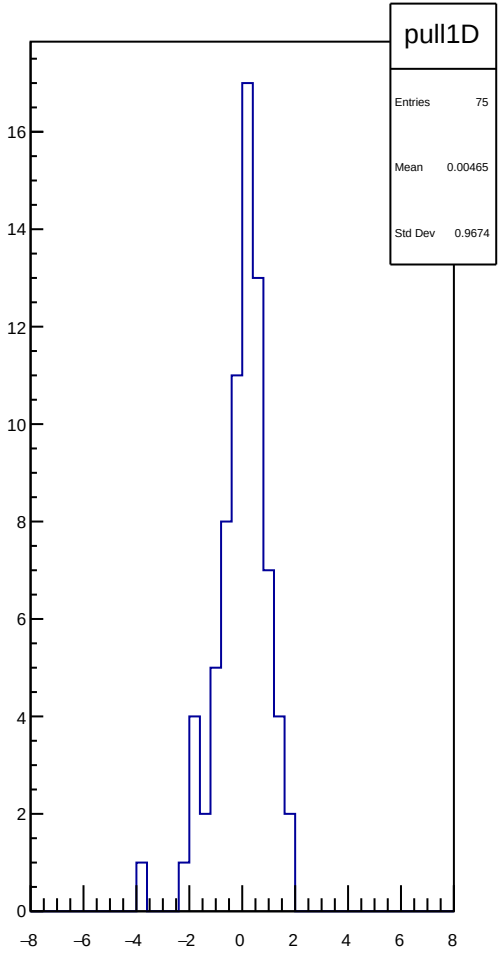

reg_asym_sam3_rms vs run
χ² / ndf 2.564e+04 / 74
p0 210.9 ± 0.177
350
300
250
200
150

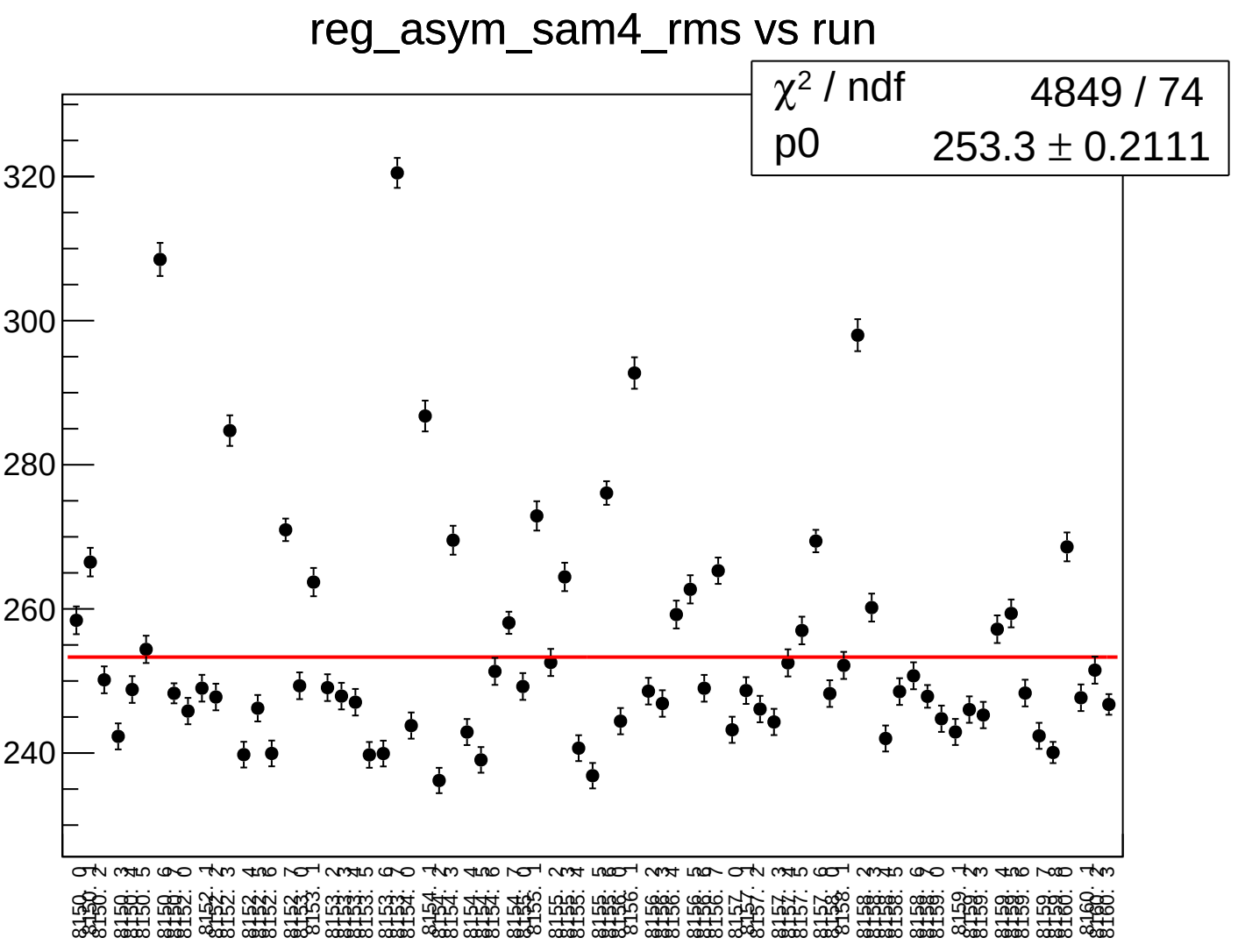

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 101.4 / 74
p0 −2866 ± 2883
100
50
0
−50
−100
pull
Entries 75
Mean 6375
Std Dev 6325
3
2
1
0
−1
−2
−3

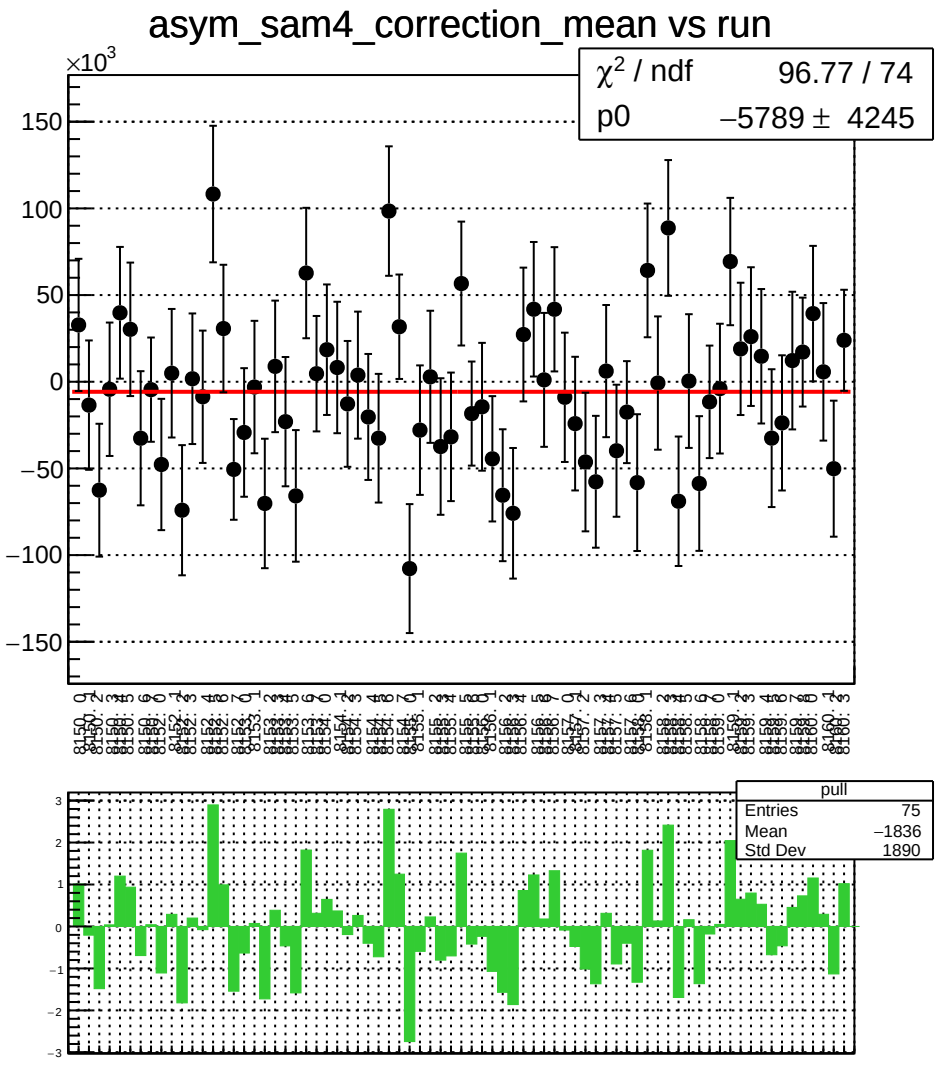

pull1D
Entries 75
Mean 0.0002891
Std Dev 1.163
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

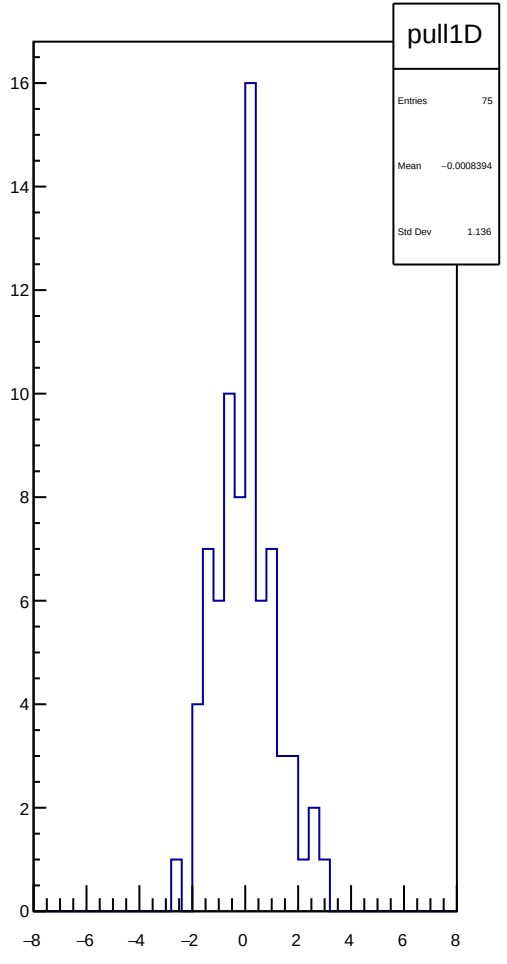

asym_sam3_correction_rms vs run
χ² / ndf 2074 / 74
p0 2448 ± 2.039
2800
2700
2600
2500
2400
2300
2200

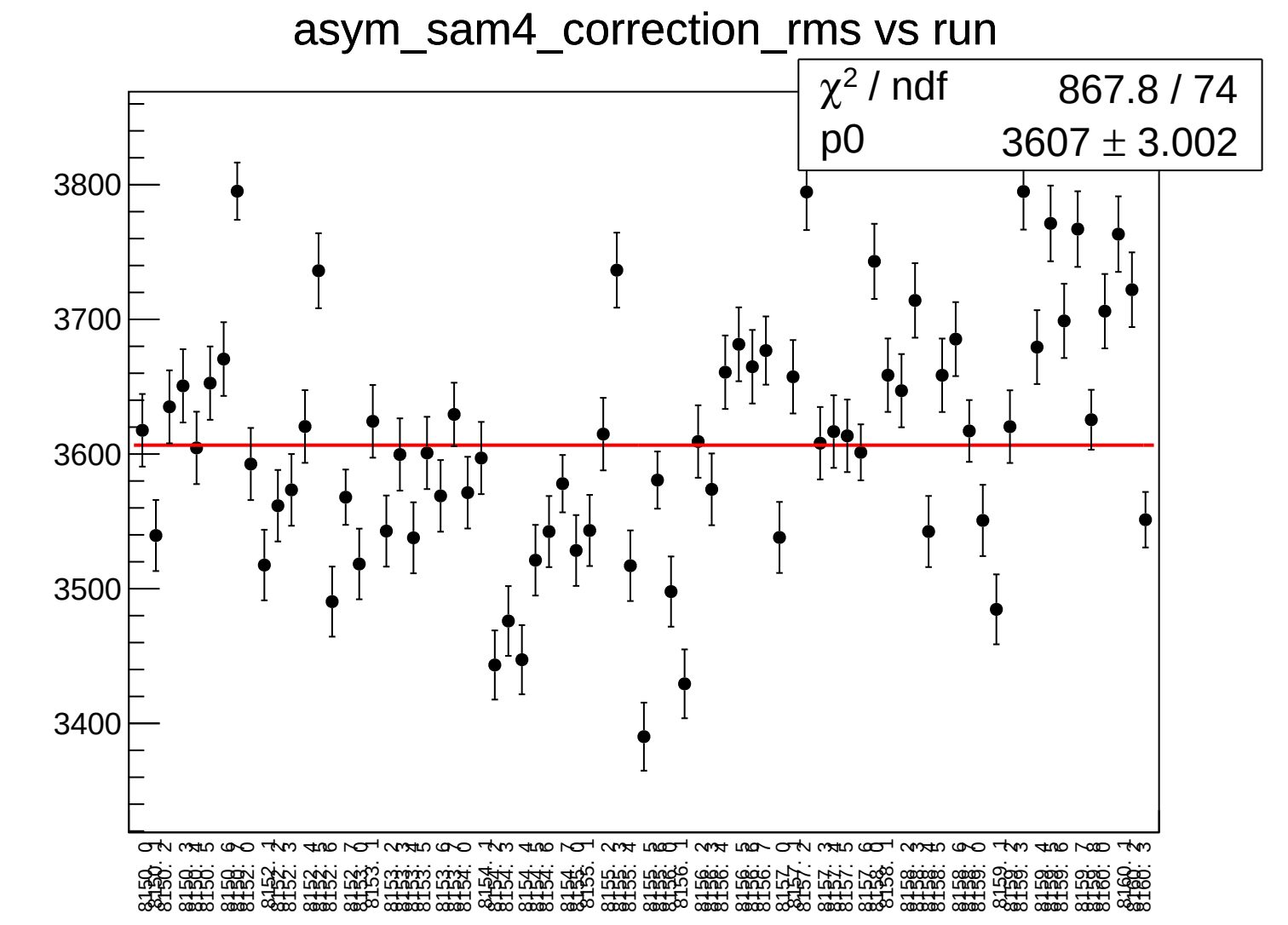

reg_asym_sam4_mean vs run
χ² / ndf 70.2 / 74
p0 616.3 ± 298.6
pull
Entries 75
Mean 189.4
Std Dev 99.39

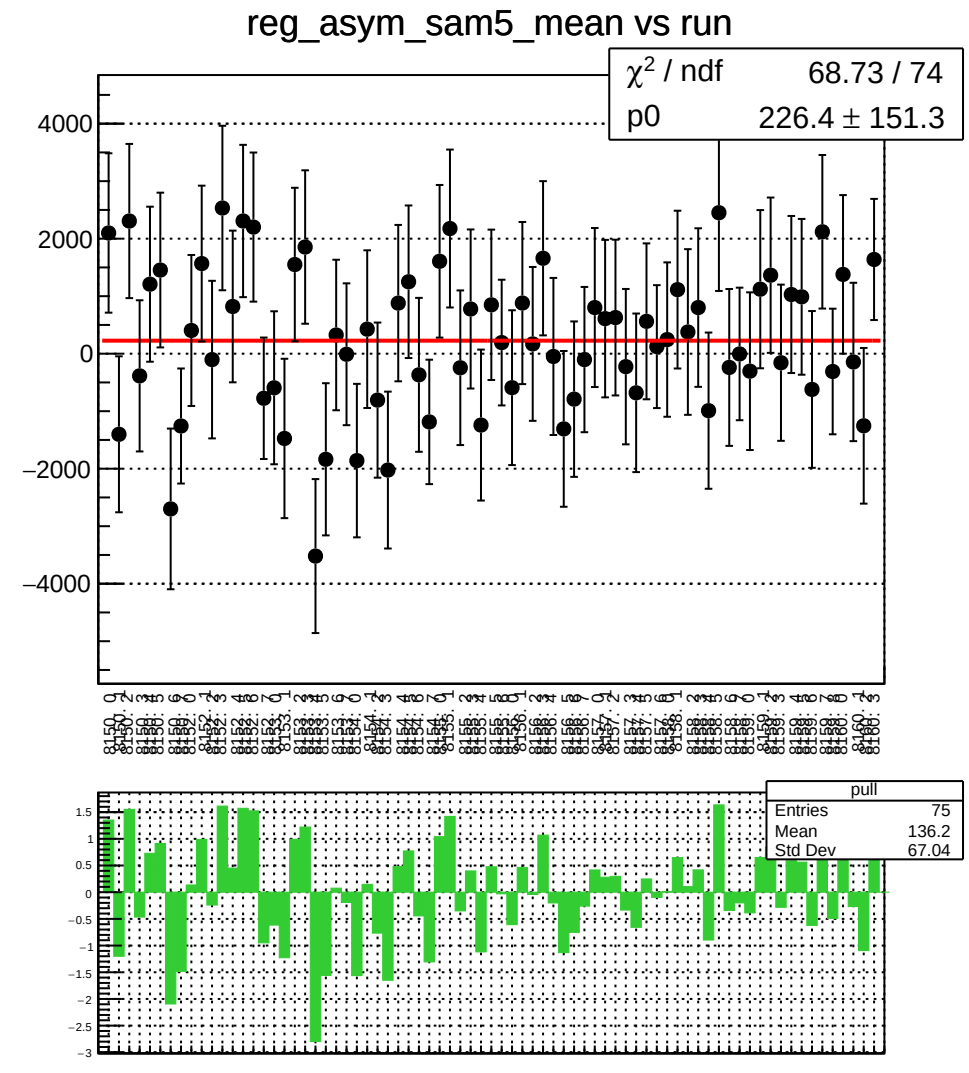

pull1D
Entries 75
Mean 0.00465
Std Dev 0.9674

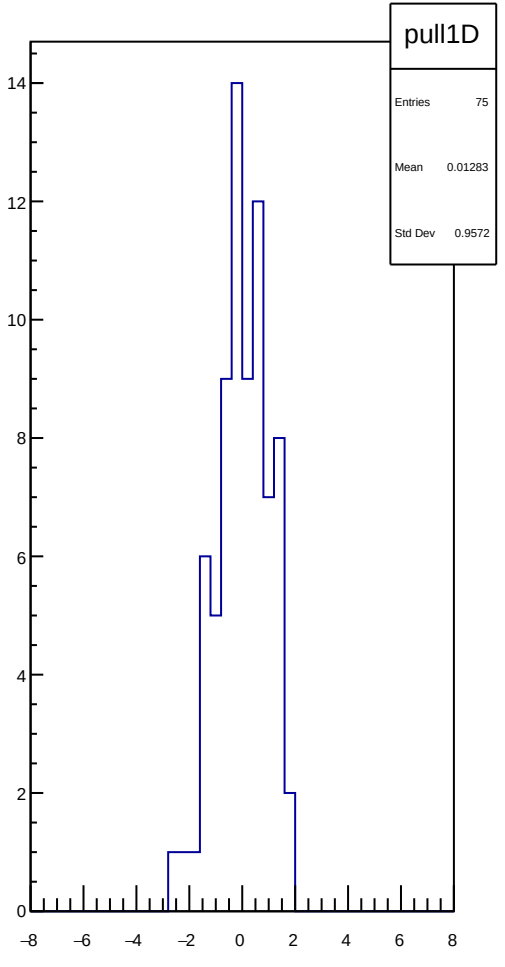

reg_asym_sam4_rms vs run
χ² / ndf 4849 / 74
p0 253.3 ± 0.2111
320
300
280
260
240

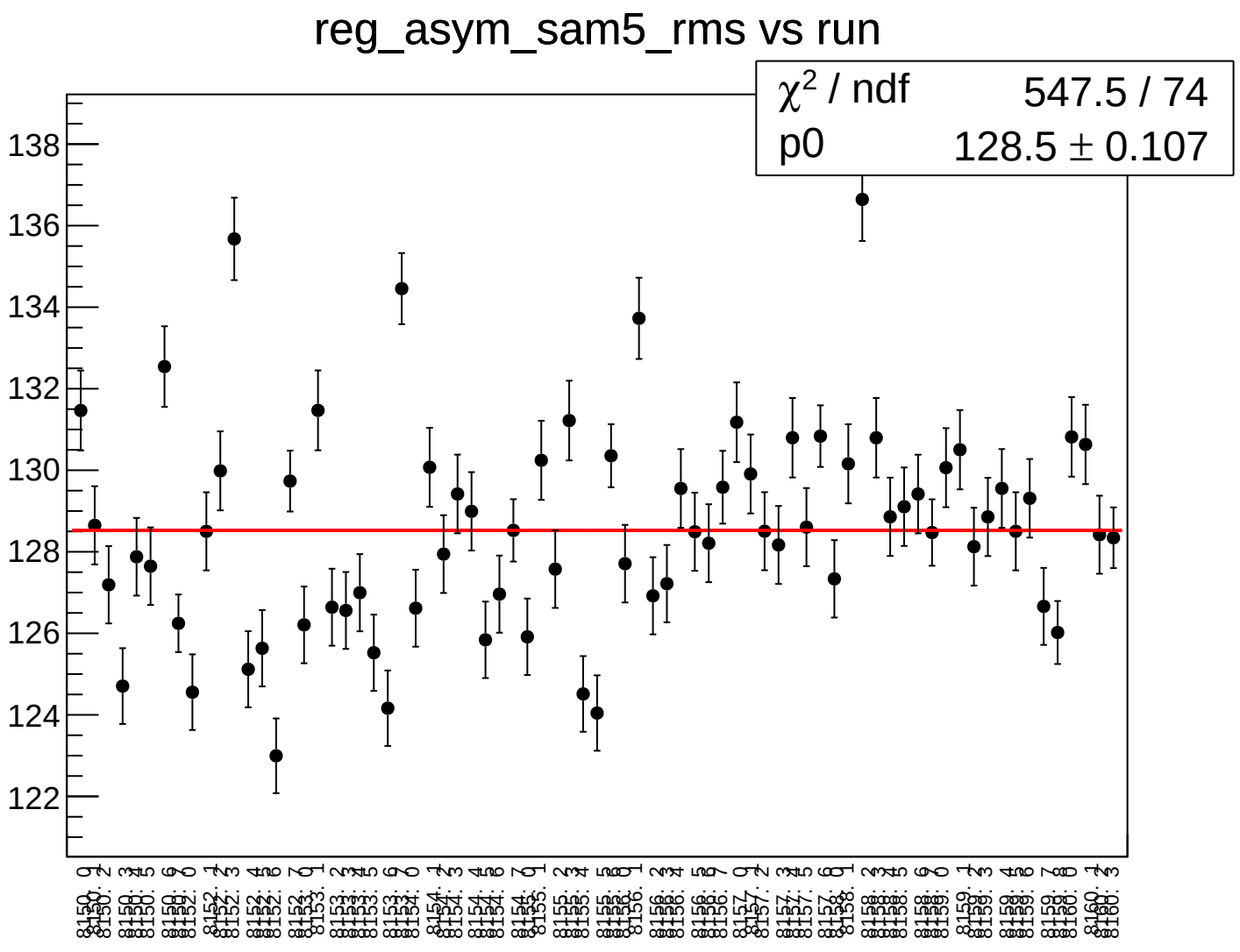

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 96.77 / 74
p0 −5789 ± 4245
150
100
50
0
−50
−100
−150
pull
Entries 75
Mean −1836
Std Dev 1890
3
2
1
0
−1
−2
−3

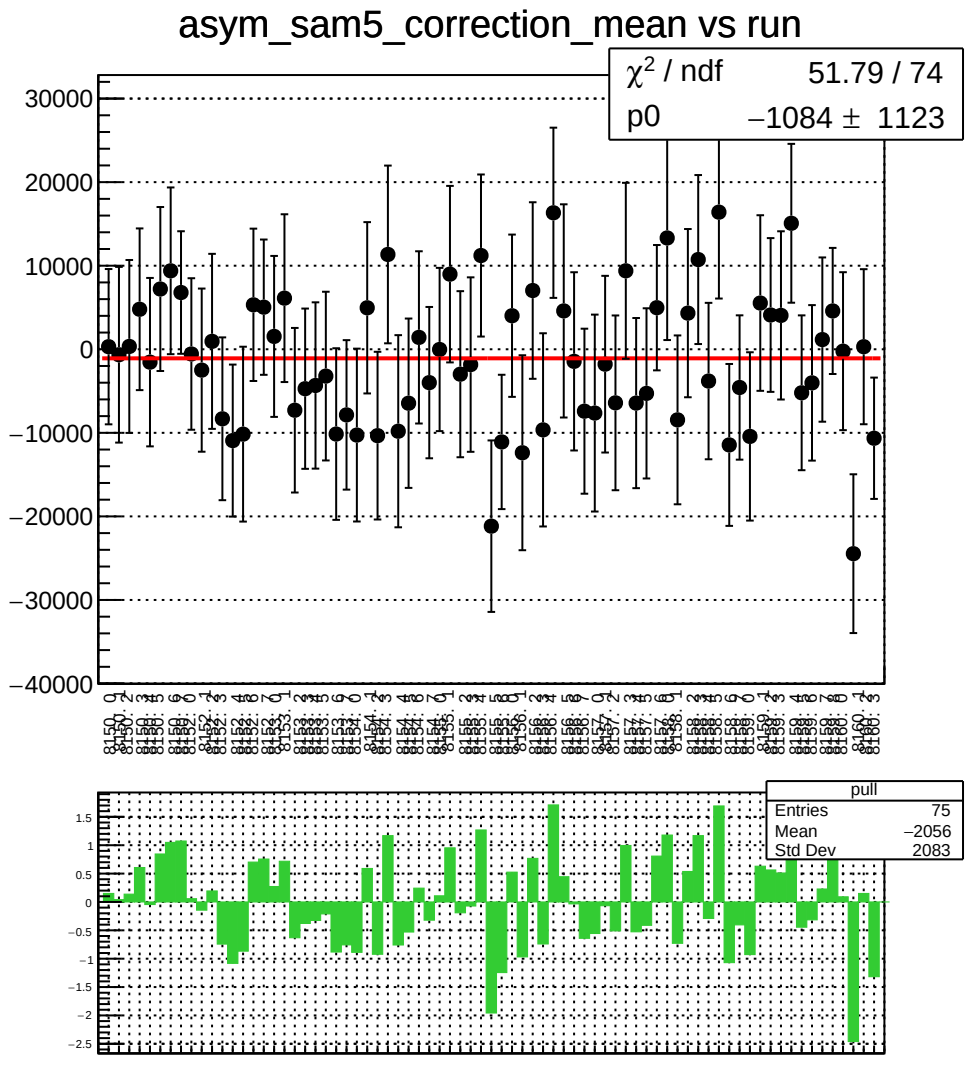

pull1D
Entries 75
Mean −0.0008394
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

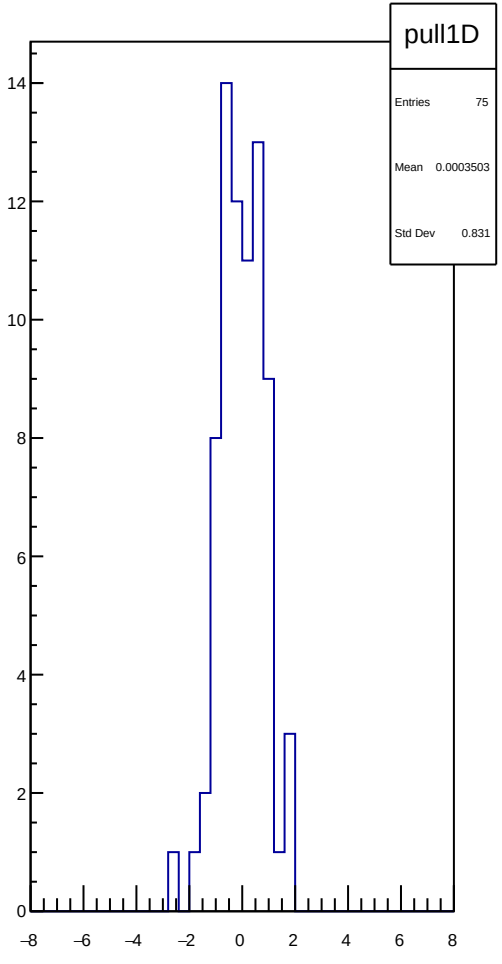

asym_sam4_correction_rms vs run
χ^2 / ndf 867.8 / 74
p0 3607 ± 3.002
3800
3700
3600
3500
3400

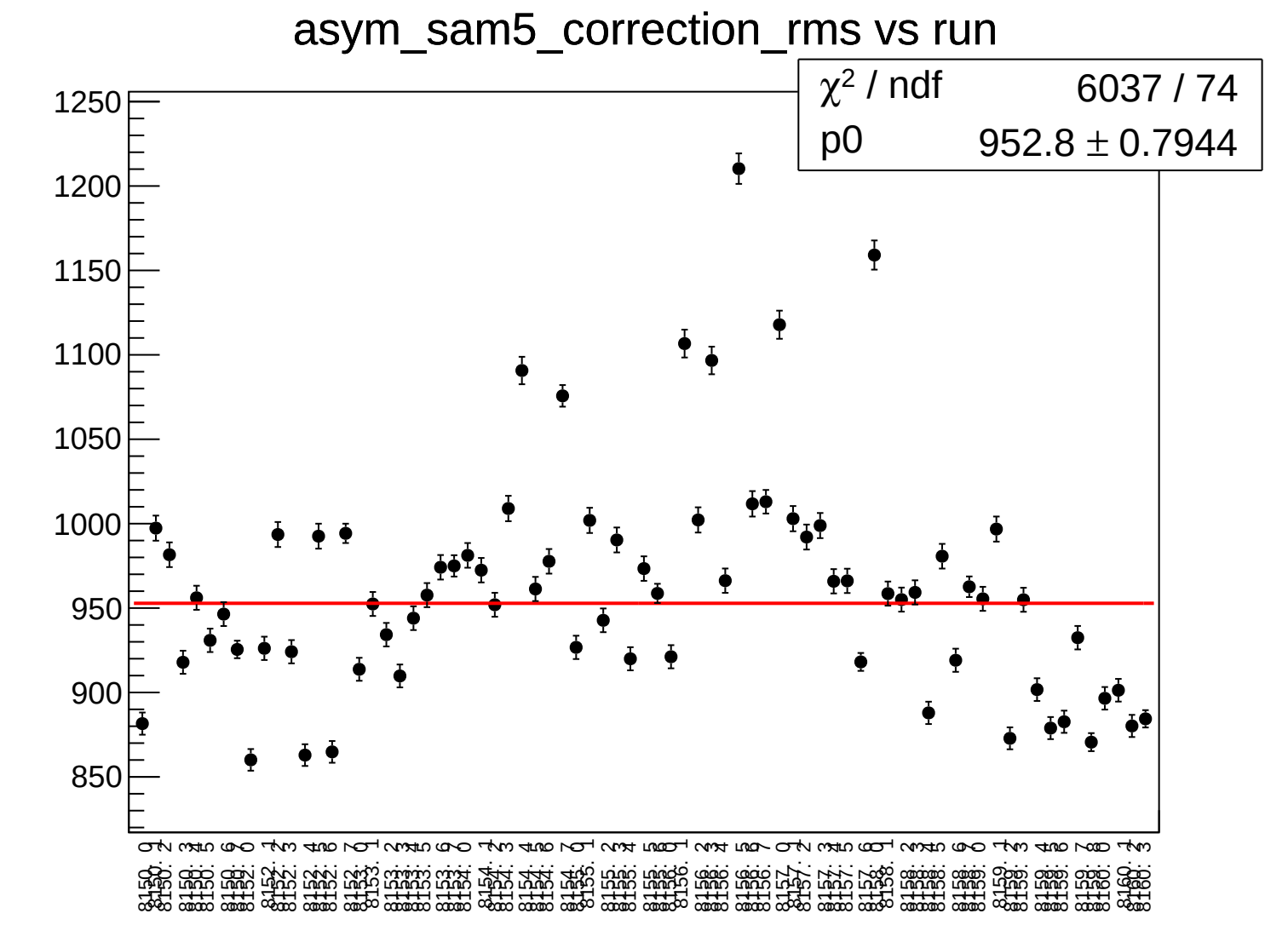

reg_asym_sam5_mean vs run
χ² / ndf 68.73 / 74
p0 226.4 ± 151.3
4000
2000
0
−2000
−4000
pull
Entries 75
Mean 136.2
Std Dev 67.04
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

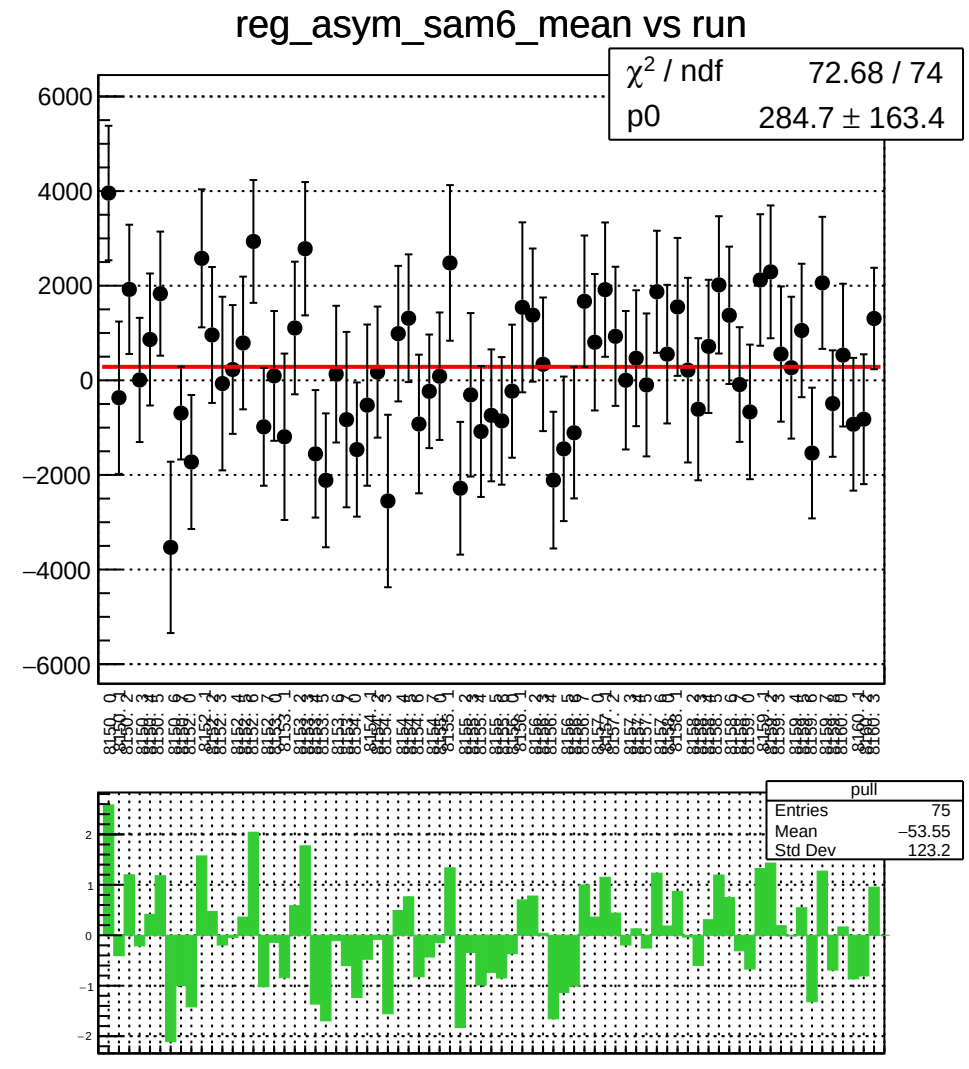

pull1D
Entries 75
Mean 0.01283
Std Dev 0.9572
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

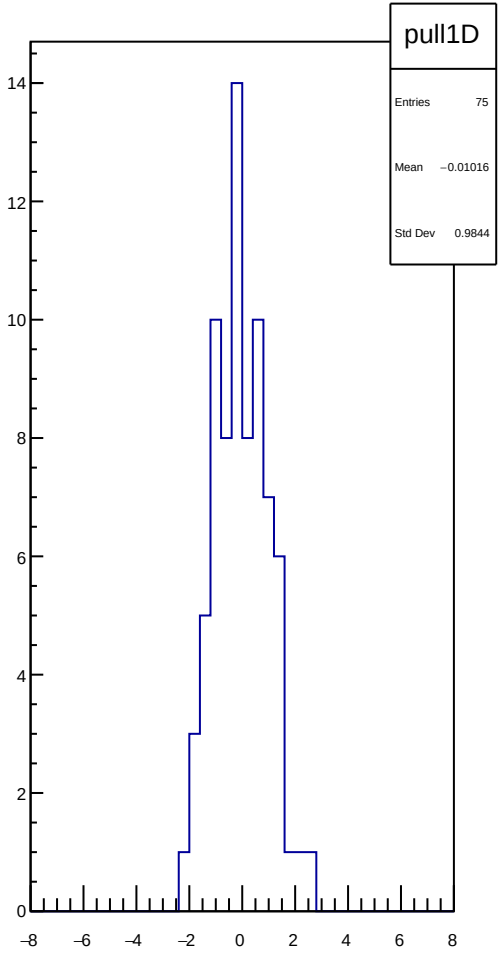

reg_asym_sam5_rms vs run
χ^2 / ndf 547.5 / 74
p0 128.5 ± 0.107
138
136
134
132
130
128
126
124
122

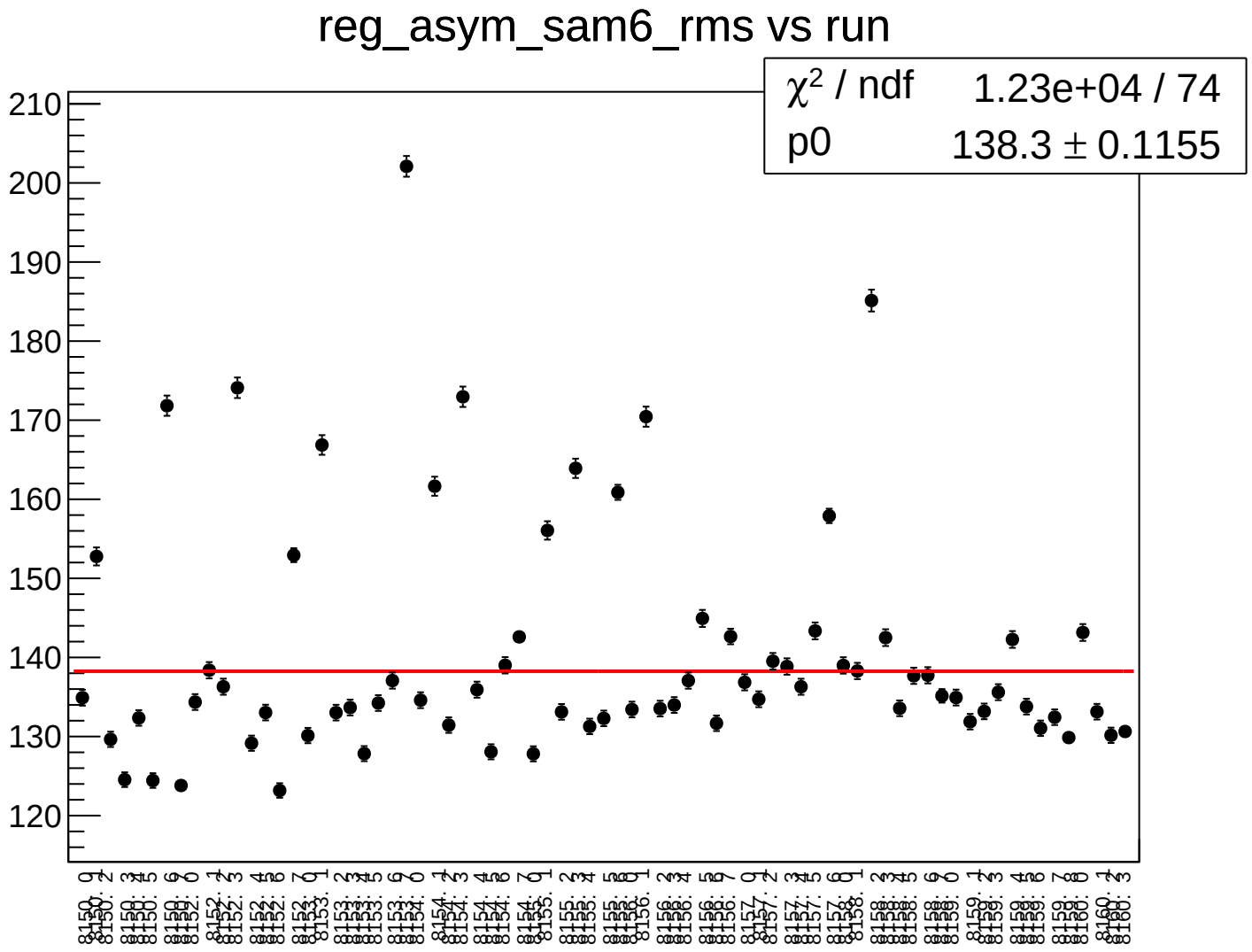

asym_sam5_correction_mean vs run
χ² / ndf 51.79 / 74
p0 −1084 ± 1123
pull
Entries 75
Mean −2056
Std Dev 2083

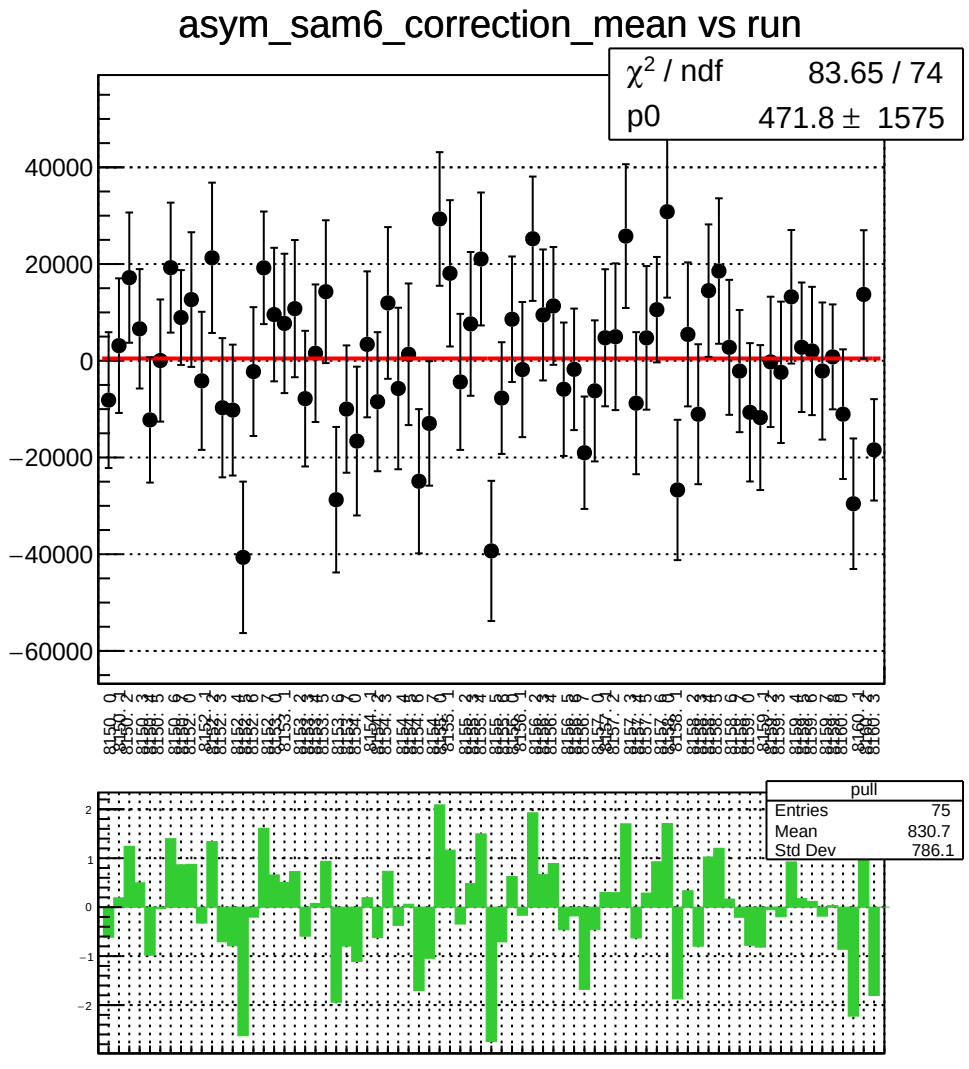

pull1D
Entries 75
Mean 0.0003503
Std Dev 0.831

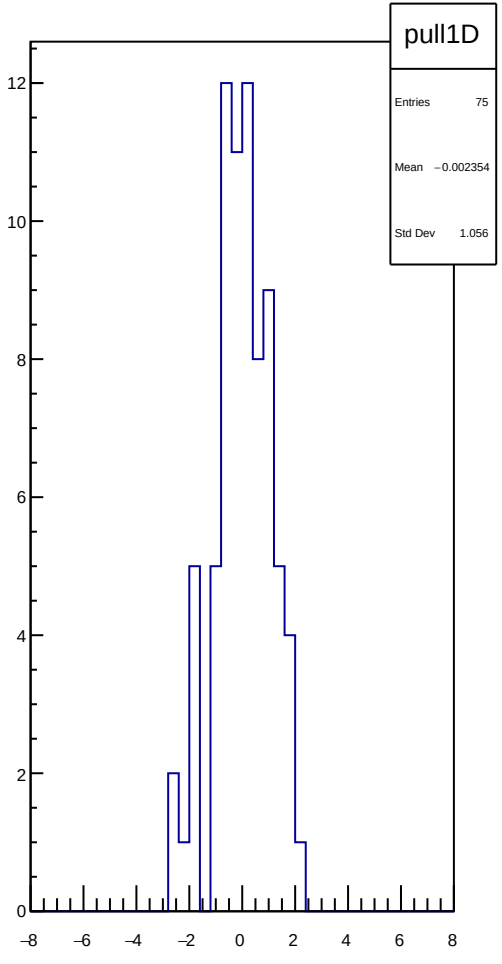

asym_sam5_correction_rms vs run
χ² / ndf 6037 / 74
p0 952.8 ± 0.7944
1250
1200
1150
1100
1050
1000
950
900
850

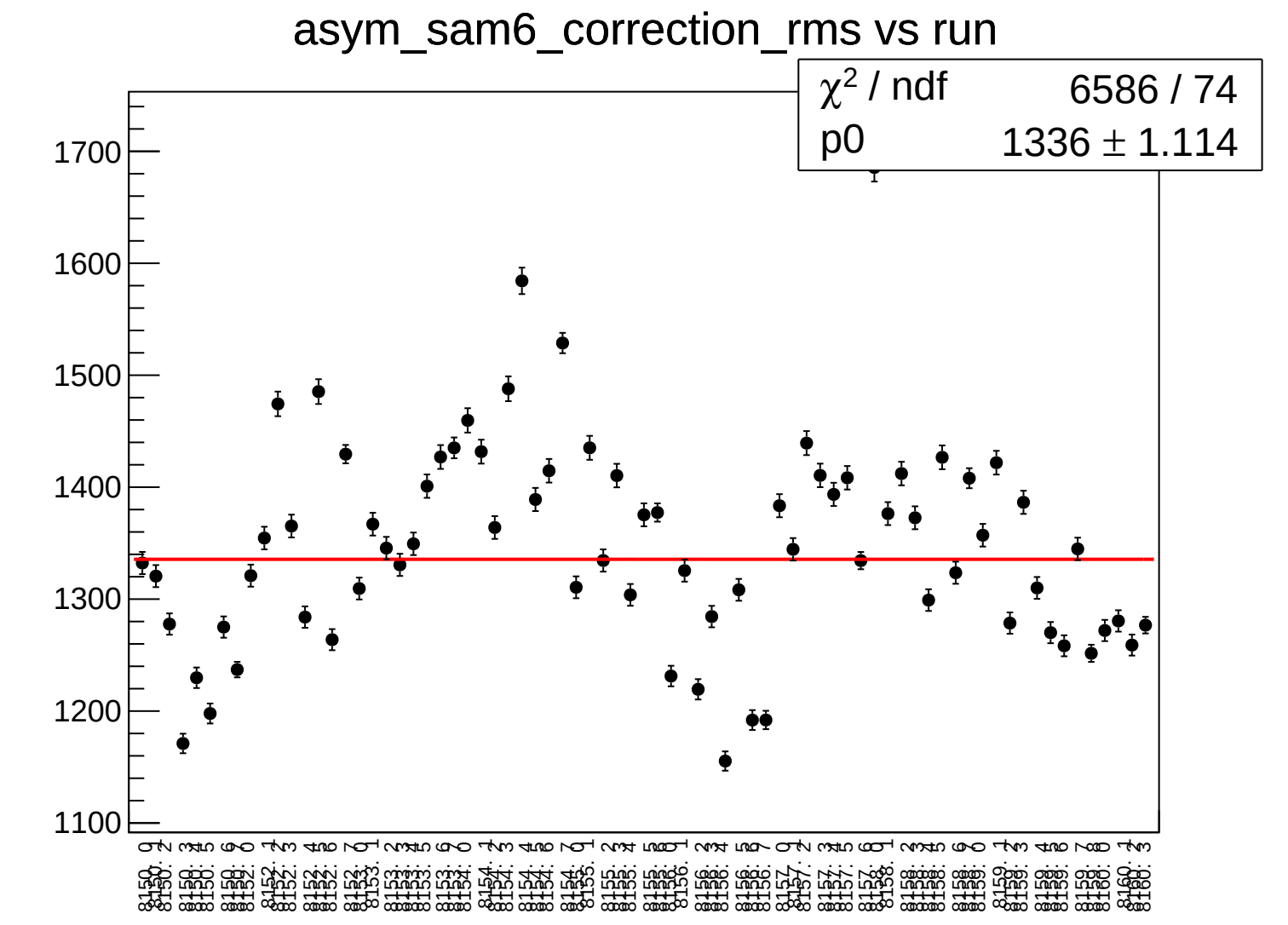

reg_asym_sam6_mean vs run
χ² / ndf 72.68 / 74
p0 284.7 ± 163.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 75
Mean −53.55
Std Dev 123.2
2
1
0
−1
−2

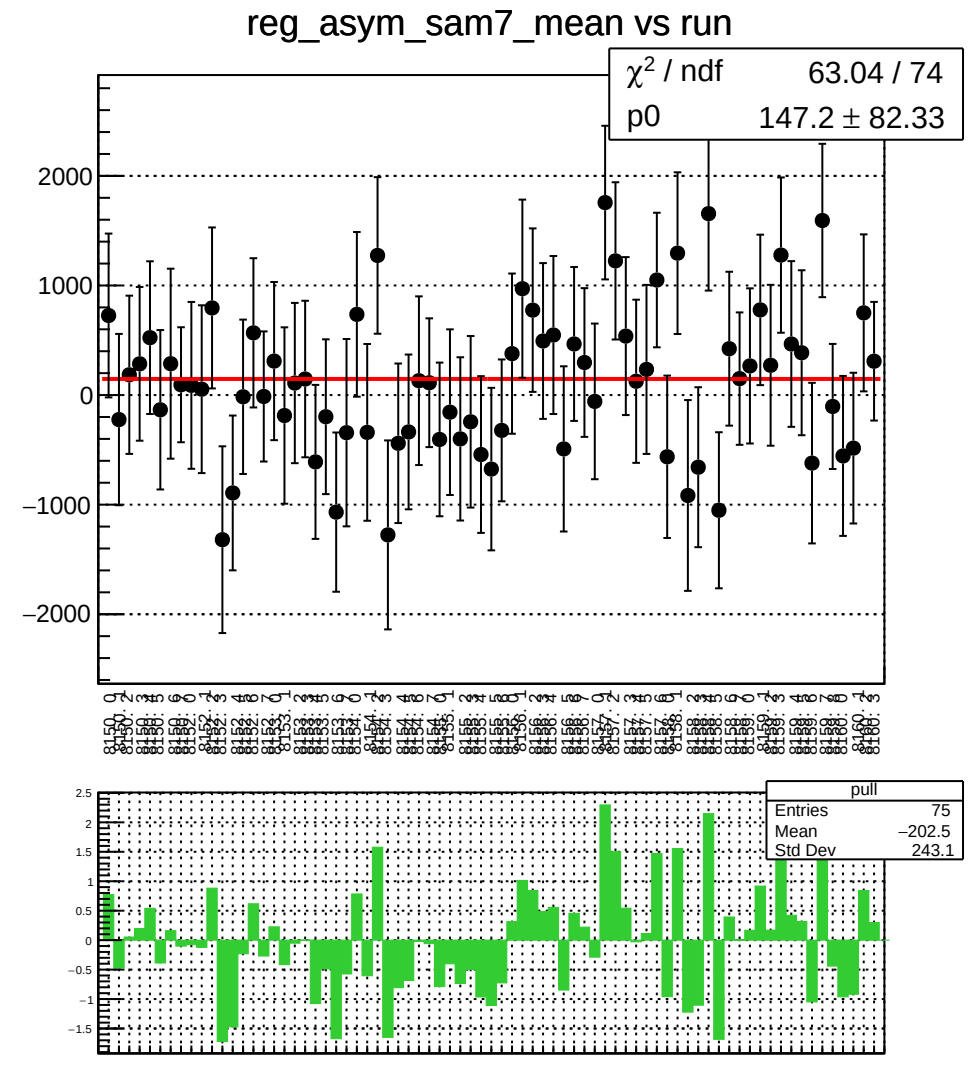

pull1D
Entries 75
Mean −0.01016
Std Dev 0.9844
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

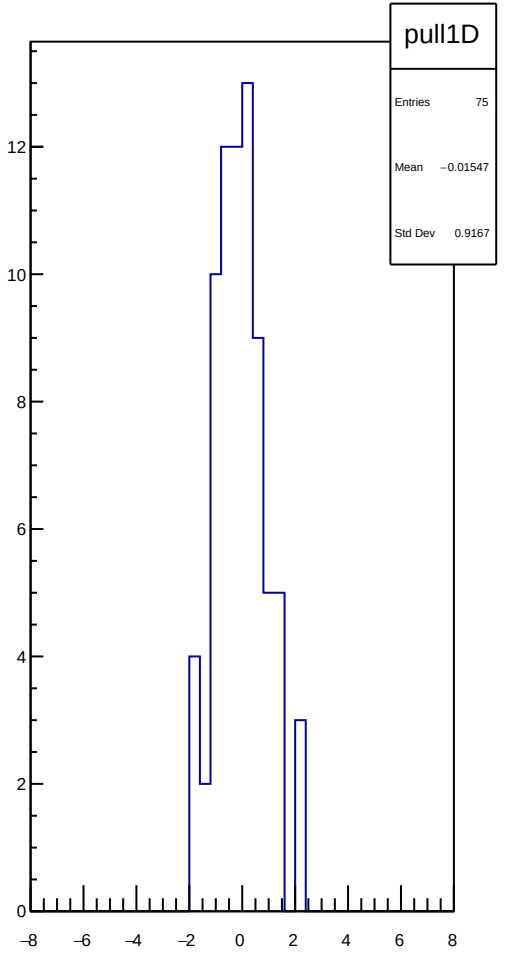

reg_asym_sam6_rms vs run
χ² / ndf 1.23e+04 / 74
p0 138.3 ± 0.1155
210
200
190
180
170
160
150
140
130
120

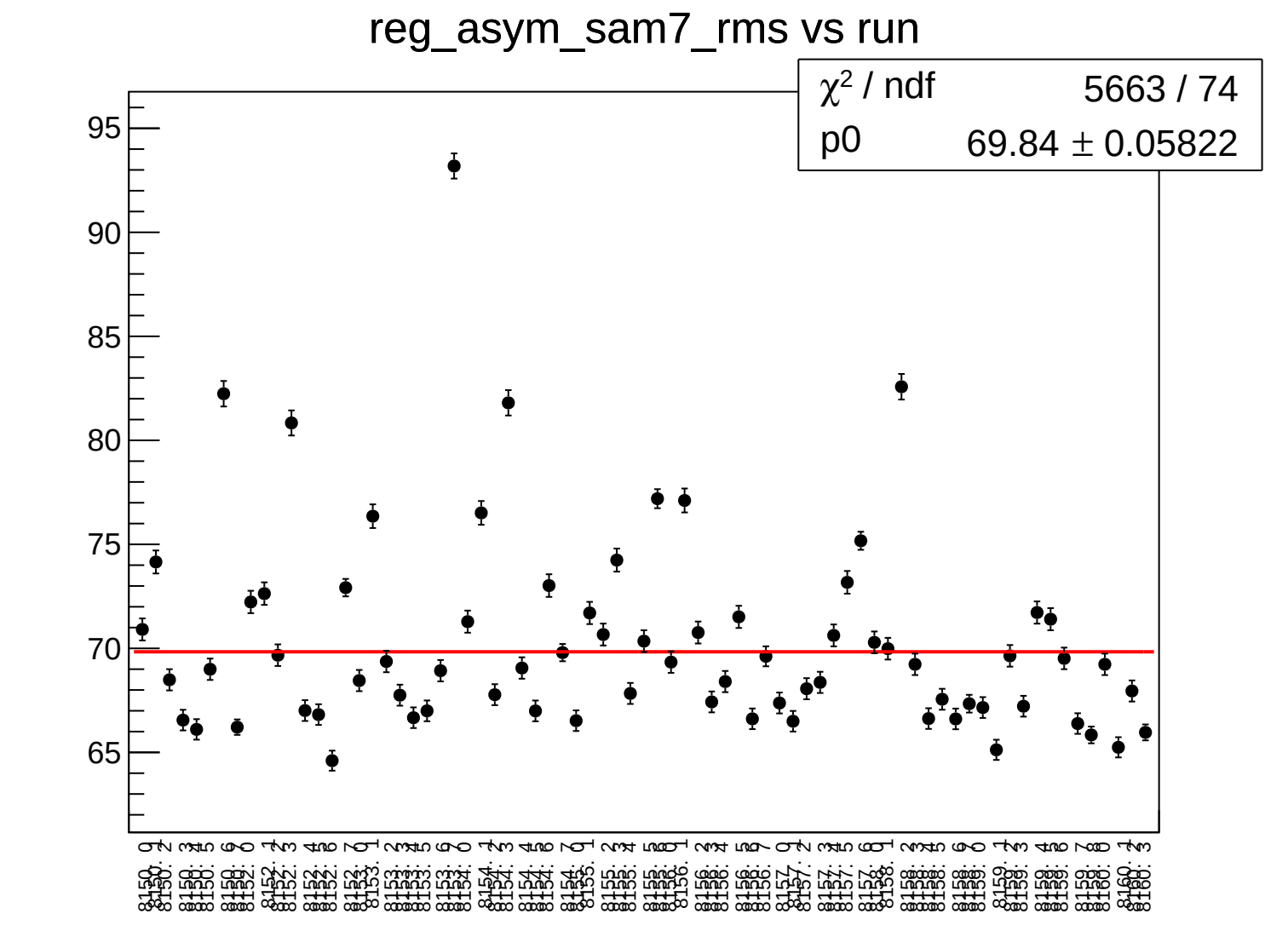

asym_sam6_correction_mean vs run
χ² / ndf 83.65 / 74
p0 471.8 ± 1575
40000
20000
0
−20000
−40000
−60000
pull
Entries 75
Mean 830.7
Std Dev 786.1
2
1
0
−1
−2

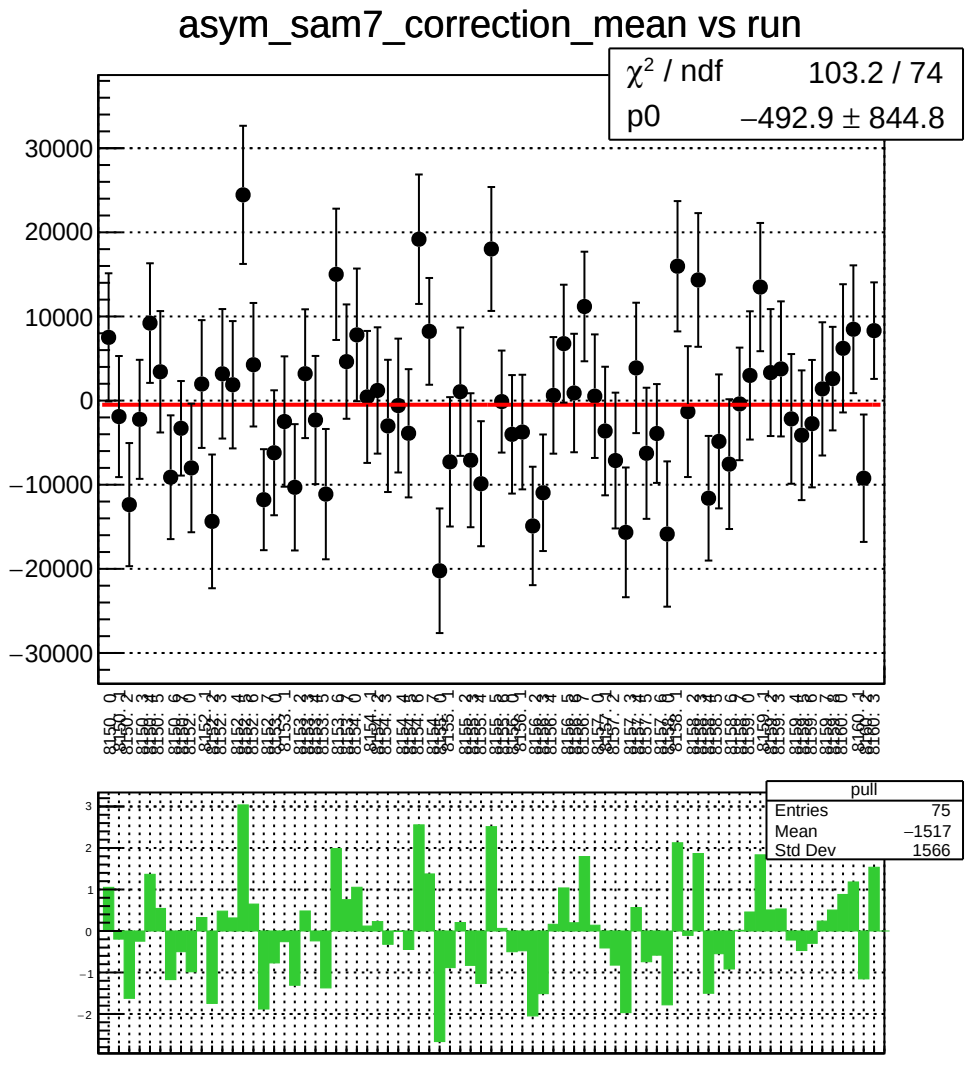

pull1D
Entries 75
Mean −0.002354
Std Dev 1.056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

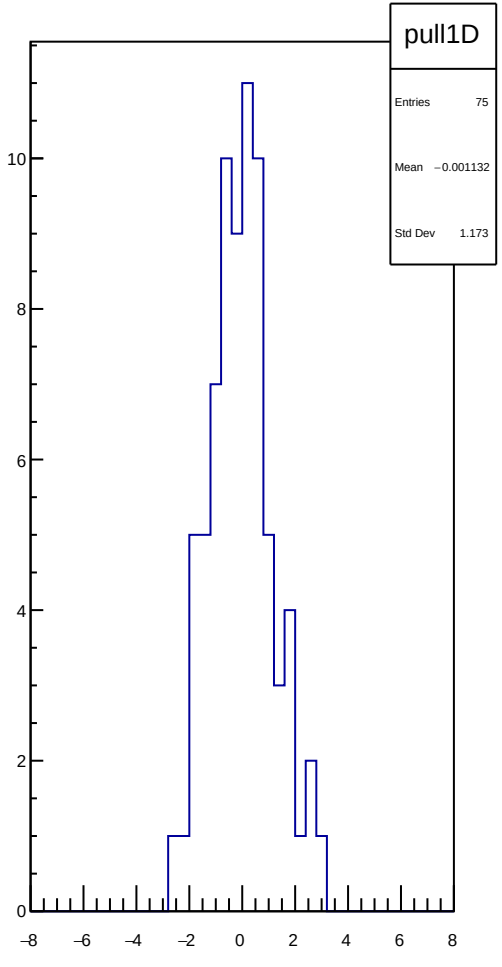

asym_sam6_correction_rms vs run
χ² / ndf 6586 / 74
p0 1336 ± 1.114
1700
1600
1500
1400
1300
1200
1100

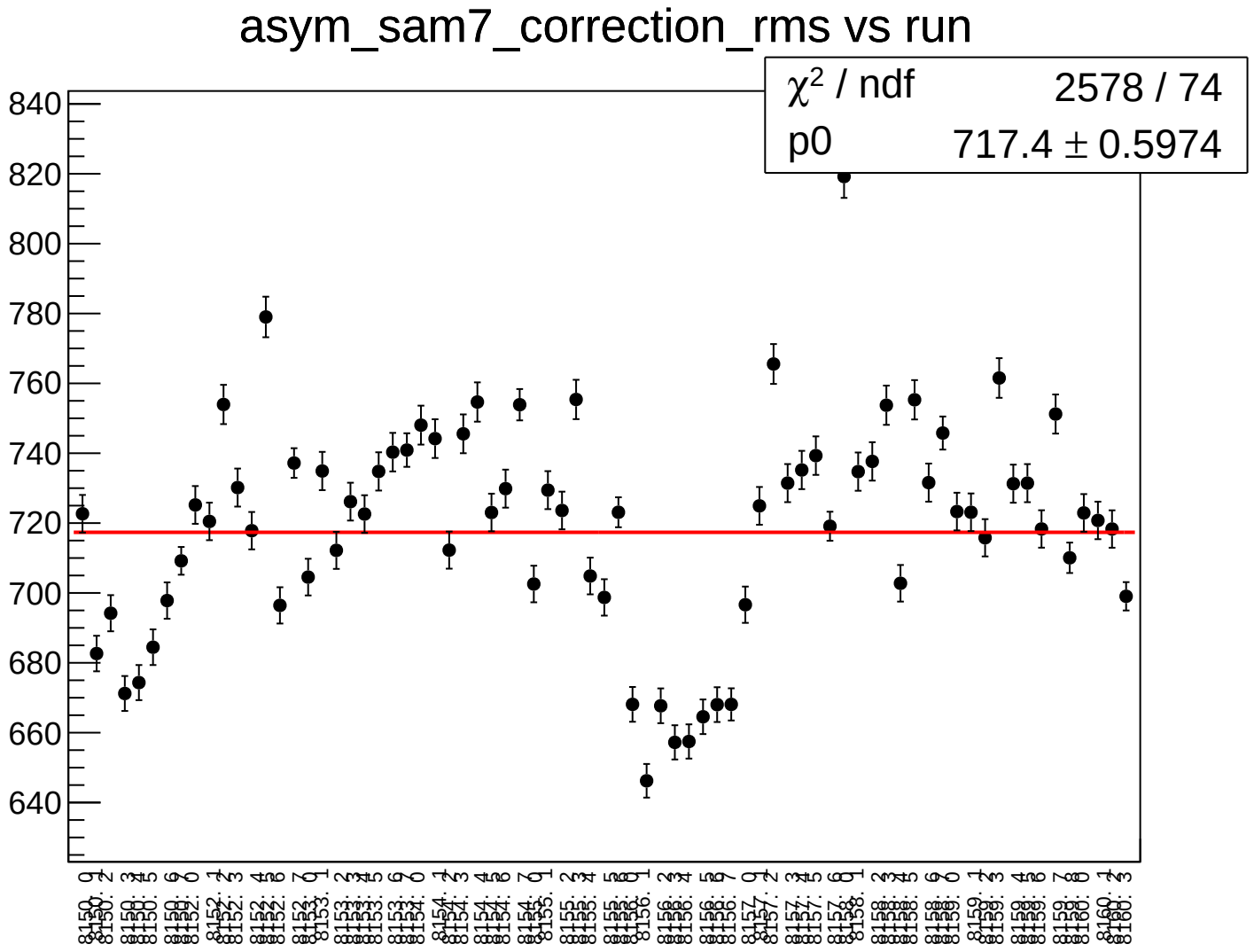

reg_asym_sam7_mean vs run
χ² / ndf 63.04 / 74
p0 147.2 ± 82.33
2000
1000
0
−1000
−2000
pull
Entries 75
Mean −202.5
Std Dev 243.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

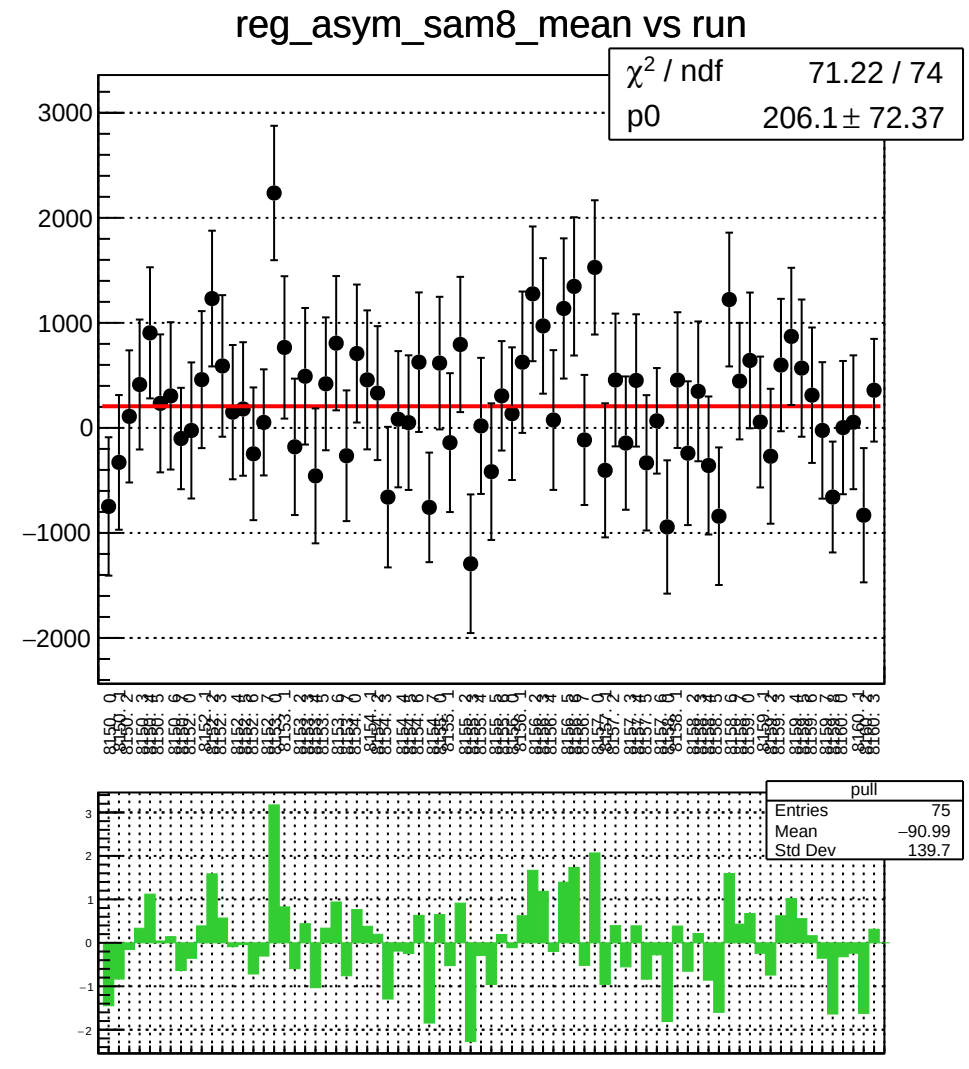

pull1D
Entries 75
Mean −0.01547
Std Dev 0.9167
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

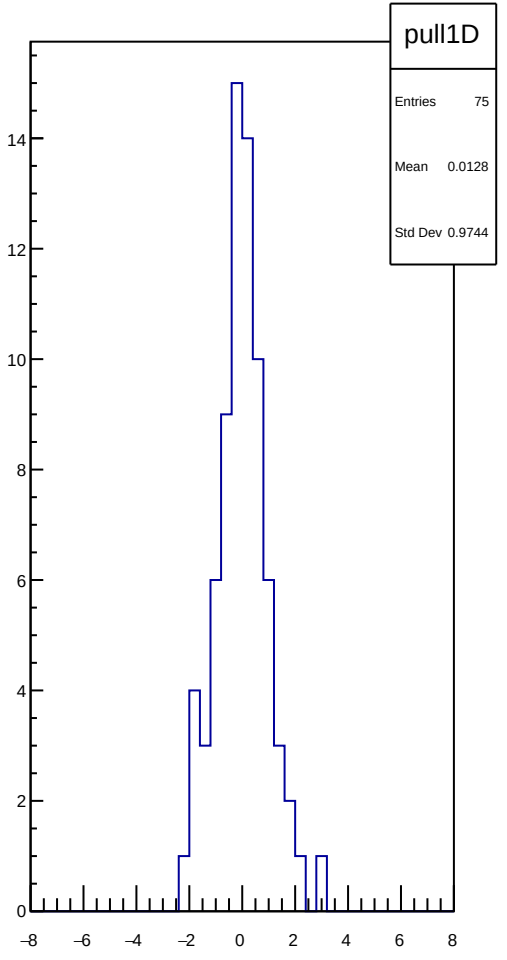

reg_asym_sam7_rms vs run
χ² / ndf 5663 / 74
p0 69.84 ± 0.05822
95
90
85
80
75
70
65

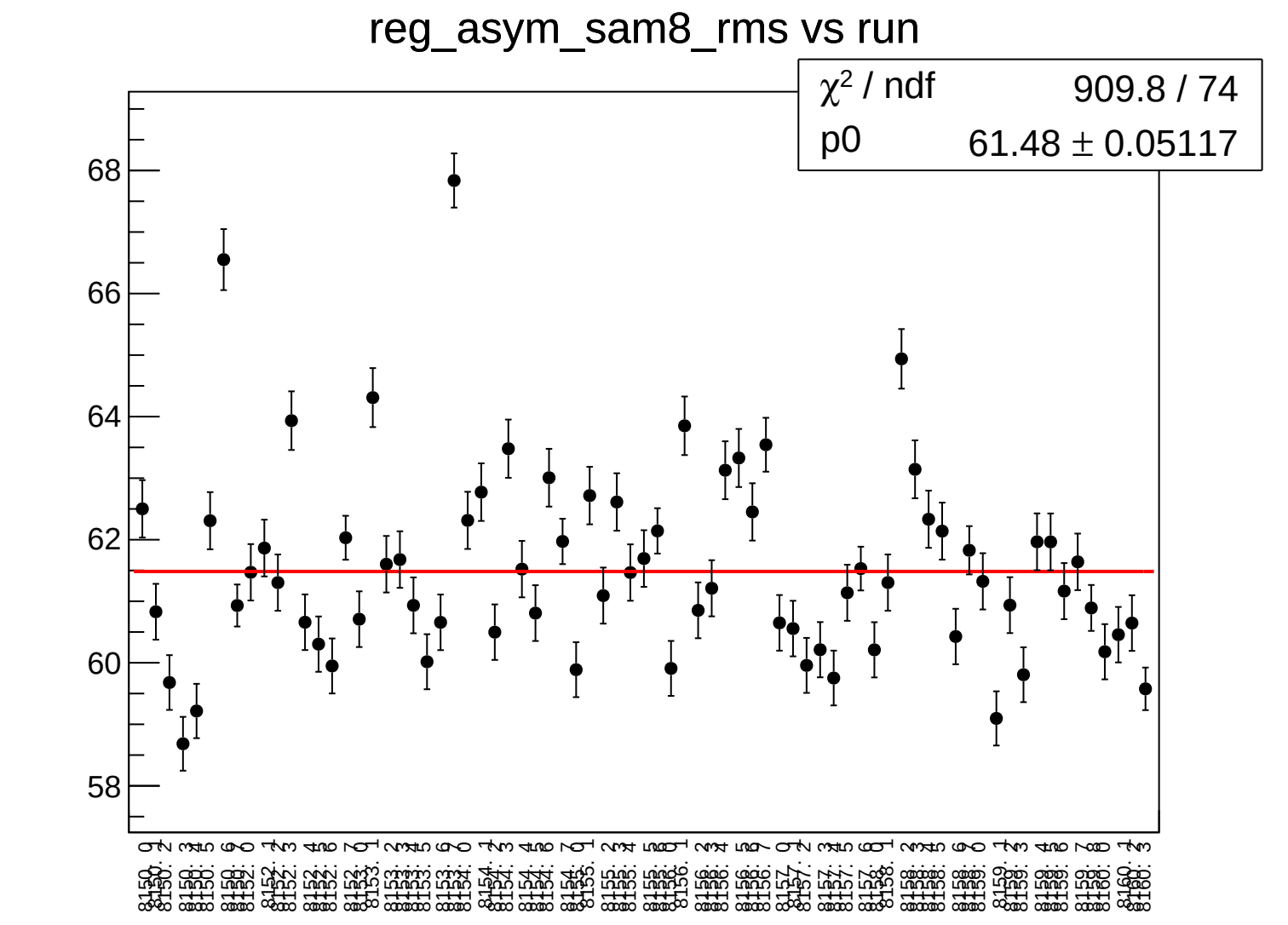

asym_sam7_correction_mean vs run
χ² / ndf 103.2 / 74
p0 −492.9 ± 844.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 75
Mean −1517
Std Dev 1566
3
2
1
0
−1
−2

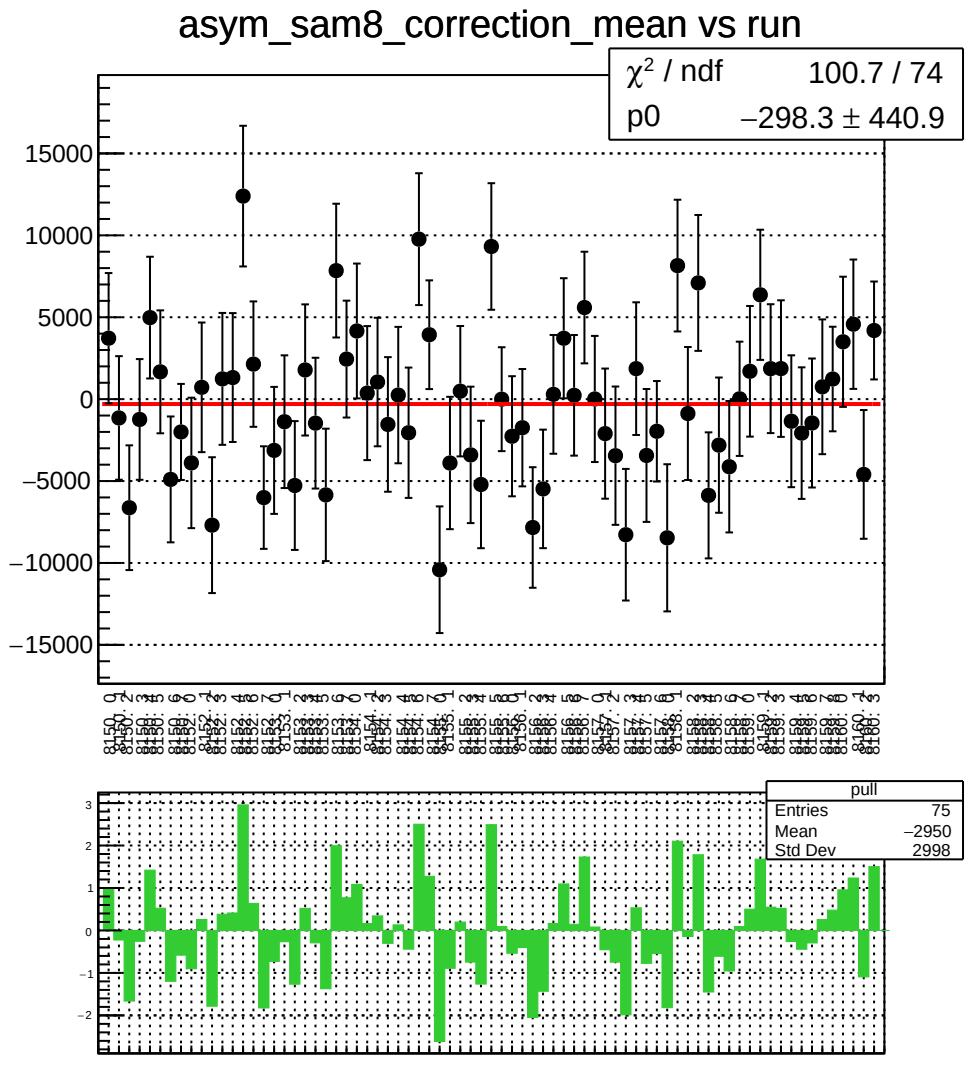

pull1D
Entries 75
Mean −0.001132
Std Dev 1.173
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

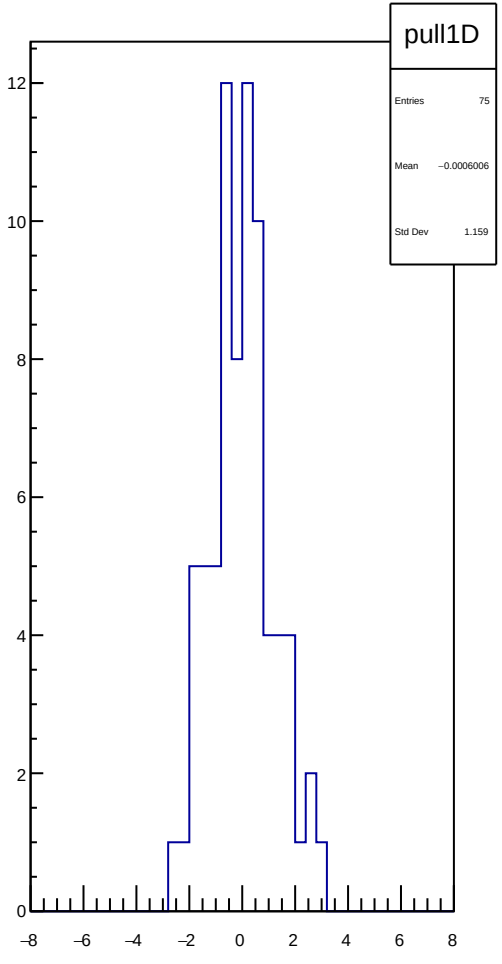

asym_sam7_correction_rms vs run
χ² / ndf 2578 / 74
p0 717.4 ± 0.5974
840
820
800
780
760
740
720
700
680
660
640

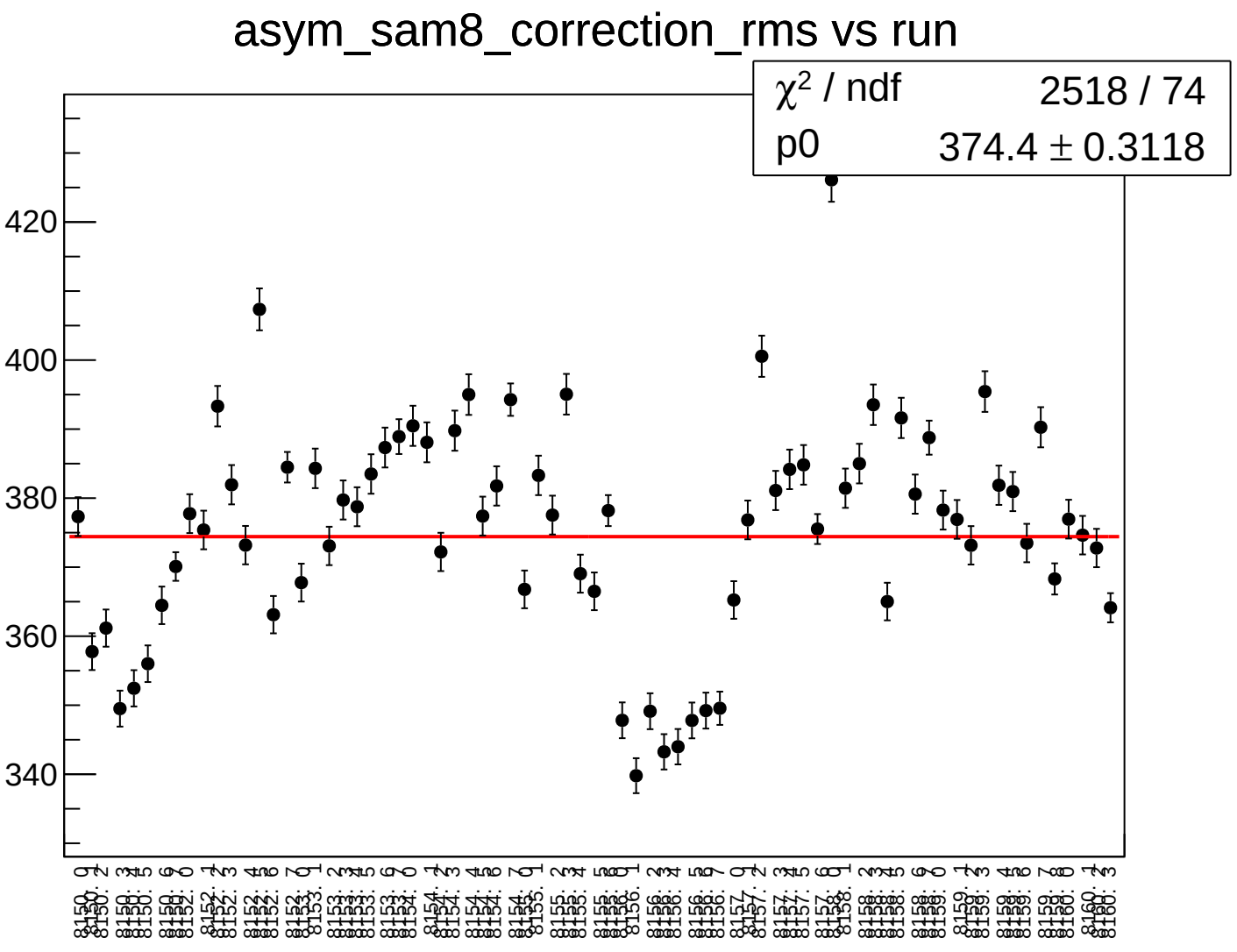

reg_asym_sam8_mean vs run
χ² / ndf 71.22 / 74
p0 206.1 ± 72.37
pull
Entries 75
Mean −90.99
Std Dev 139.7

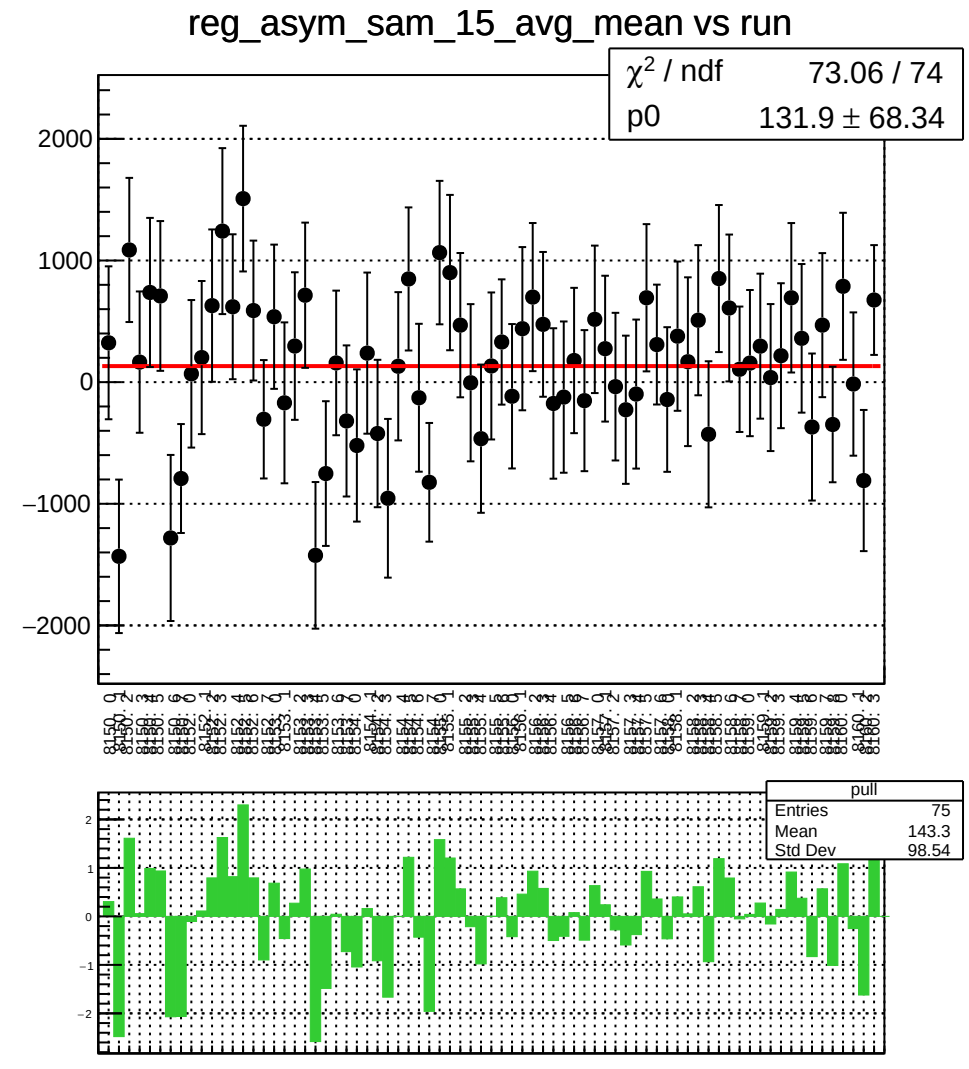

pull1D
Entries 75
Mean 0.0128
Std Dev 0.9744

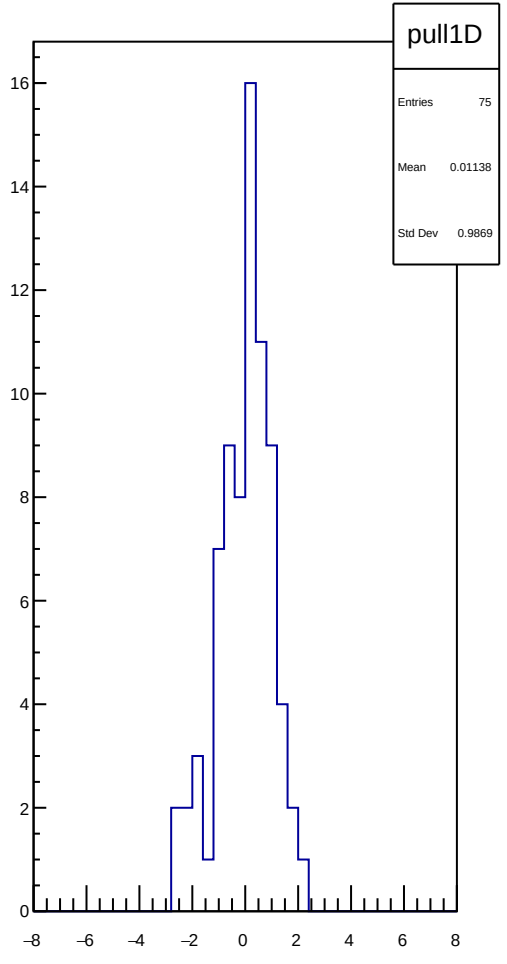

reg_asym_sam8_rms vs run
χ^2 / ndf 909.8 / 74
p0 61.48 ± 0.05117
68
66
64
62
60
58

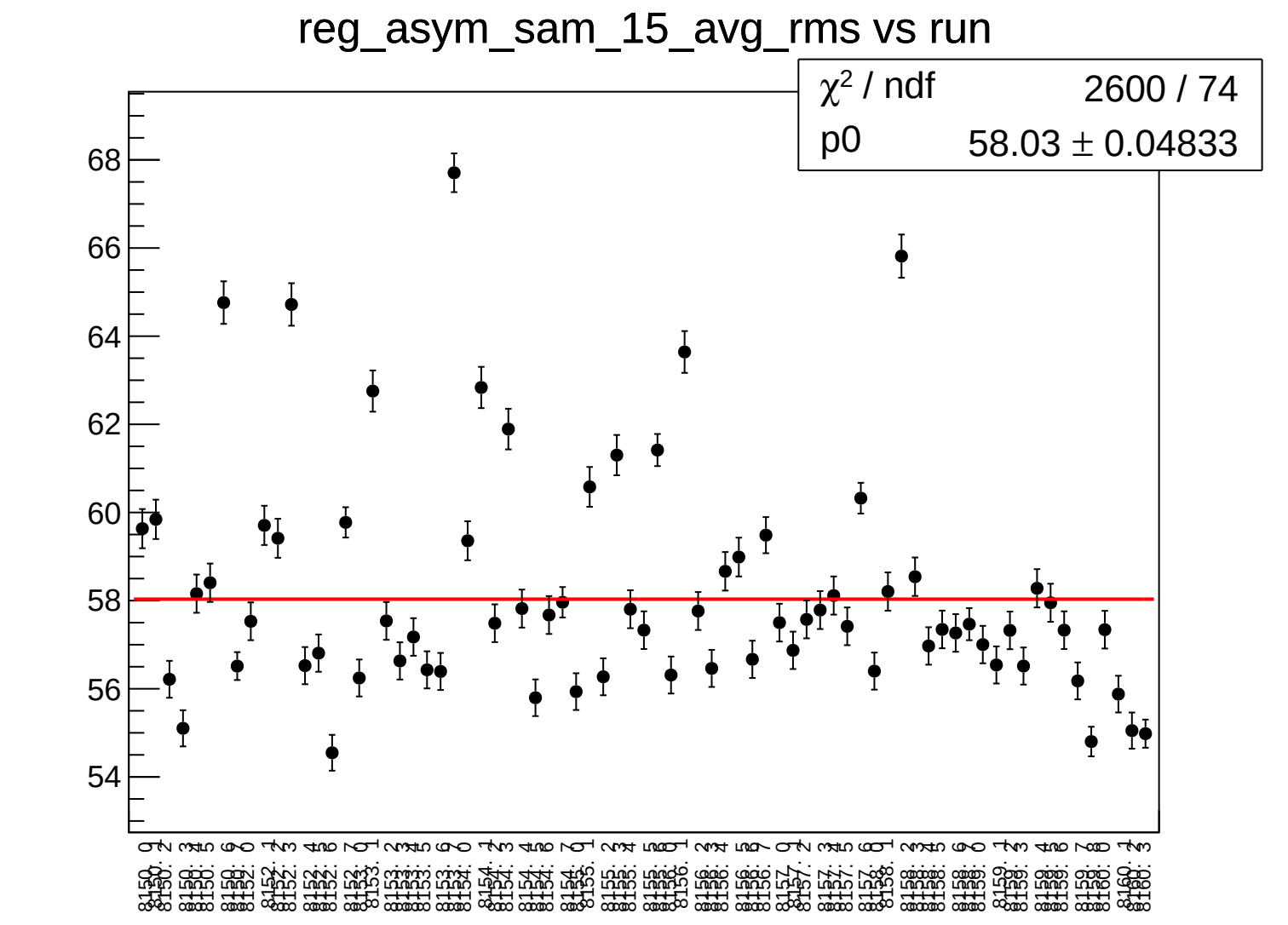

asym_sam8_correction_mean vs run
χ² / ndf 100.7 / 74
p0 −298.3 ± 440.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 75
Mean −2950
Std Dev 2998
3
2
1
0
−1
−2

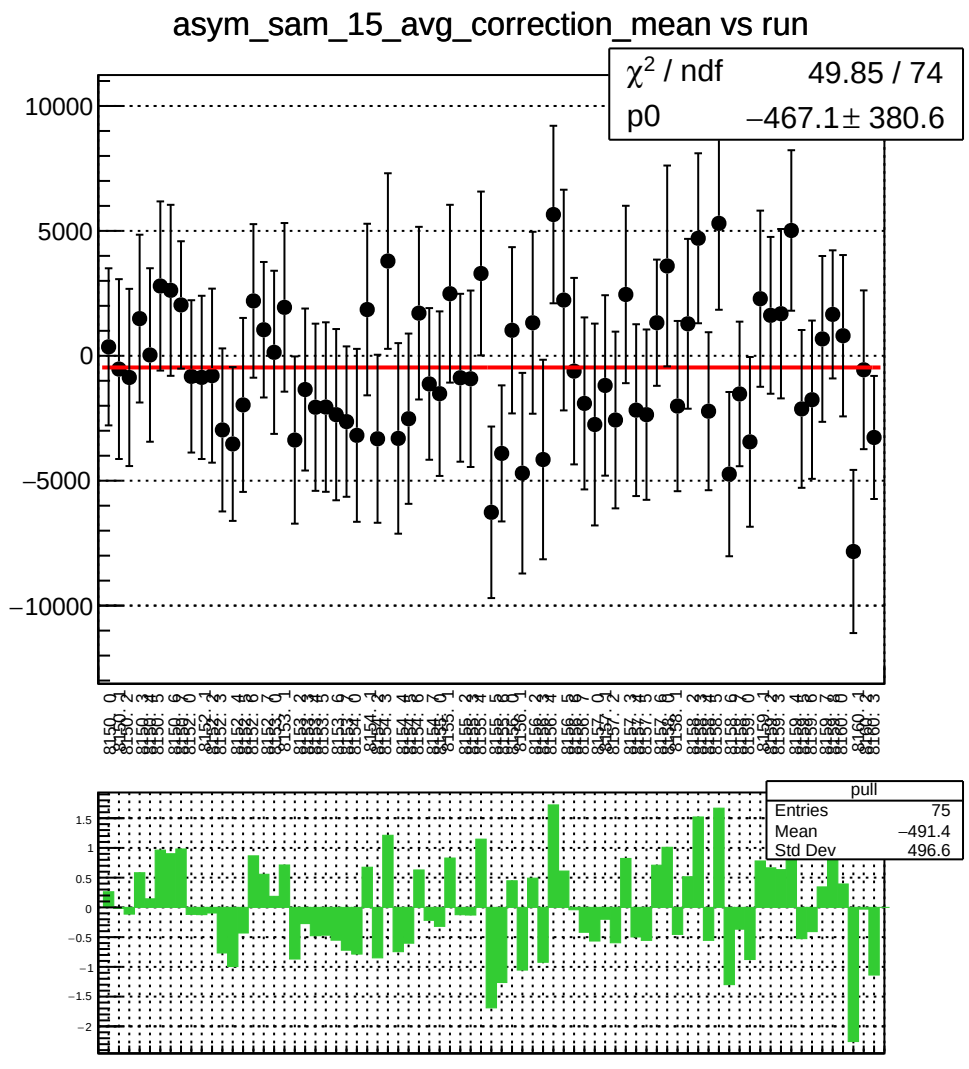

pull1D
Entries 75
Mean −0.0006006
Std Dev 1.159
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

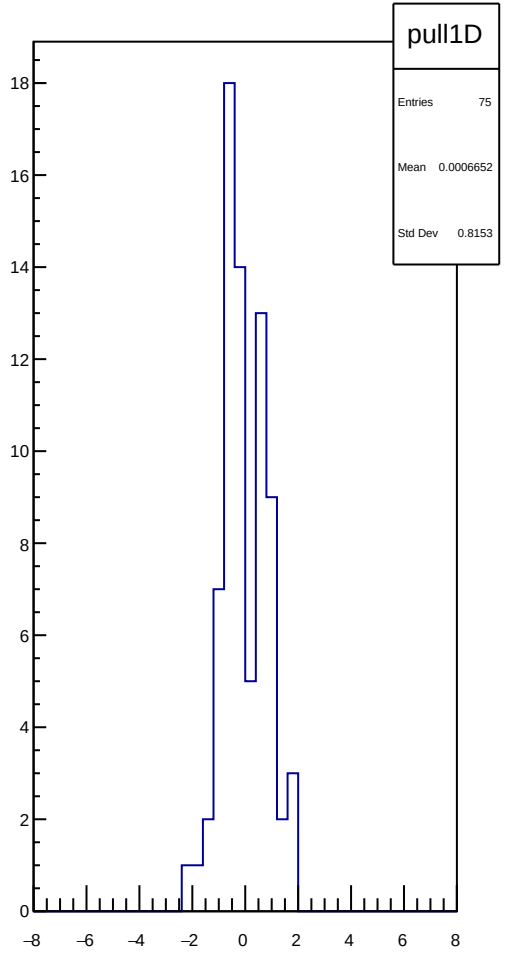

asym_sam8_correction_rms vs run
χ² / ndf 2518 / 74
p0 374.4 ± 0.3118
420
400
380
360
340

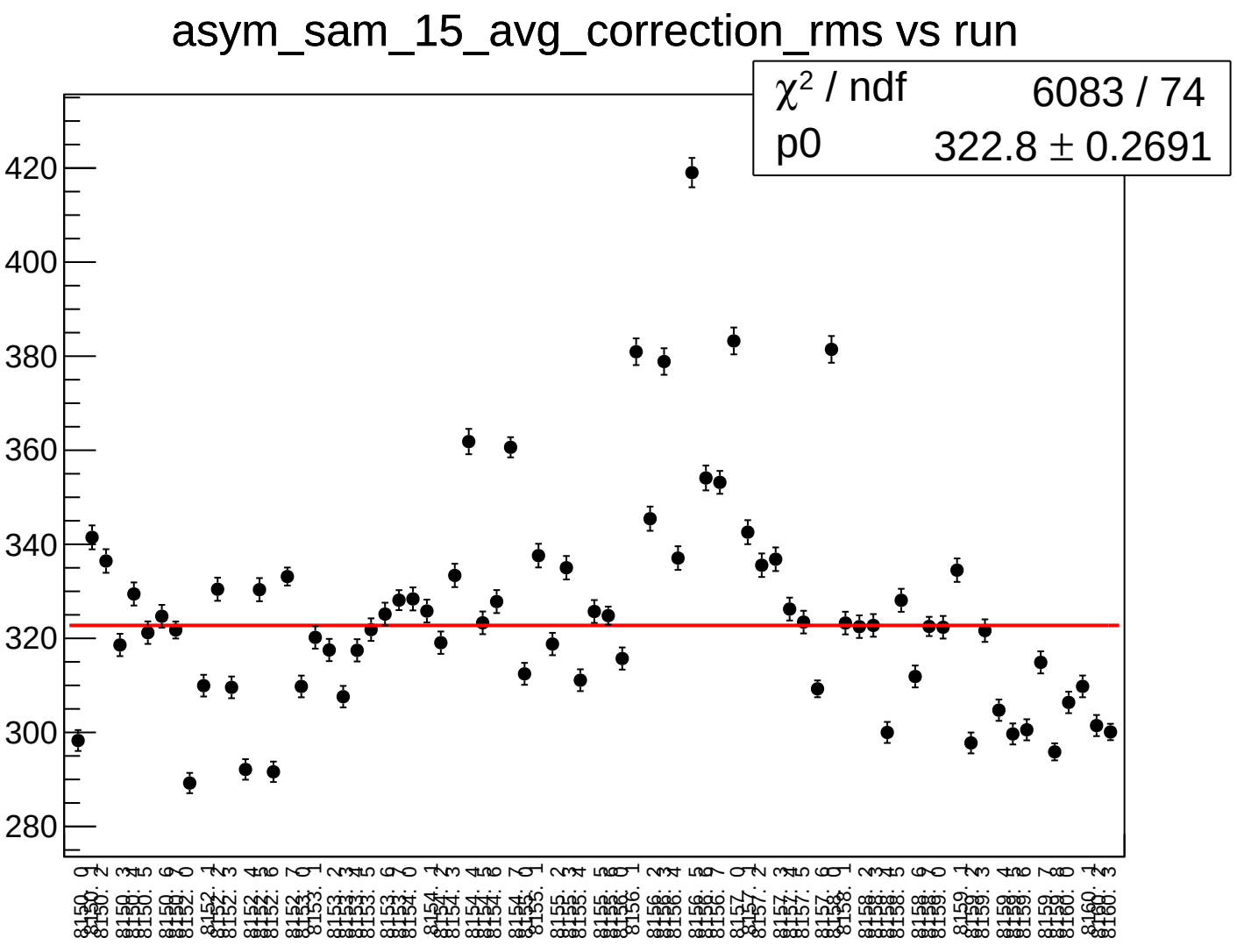

reg_asym_sam_15_avg_mean vs run
χ² / ndf 73.06 / 74
p0 131.9 ± 68.34
2000
1000
0
−1000
−2000
pull
Entries 75
Mean 143.3
Std Dev 98.54
2
1
0
−1
−2

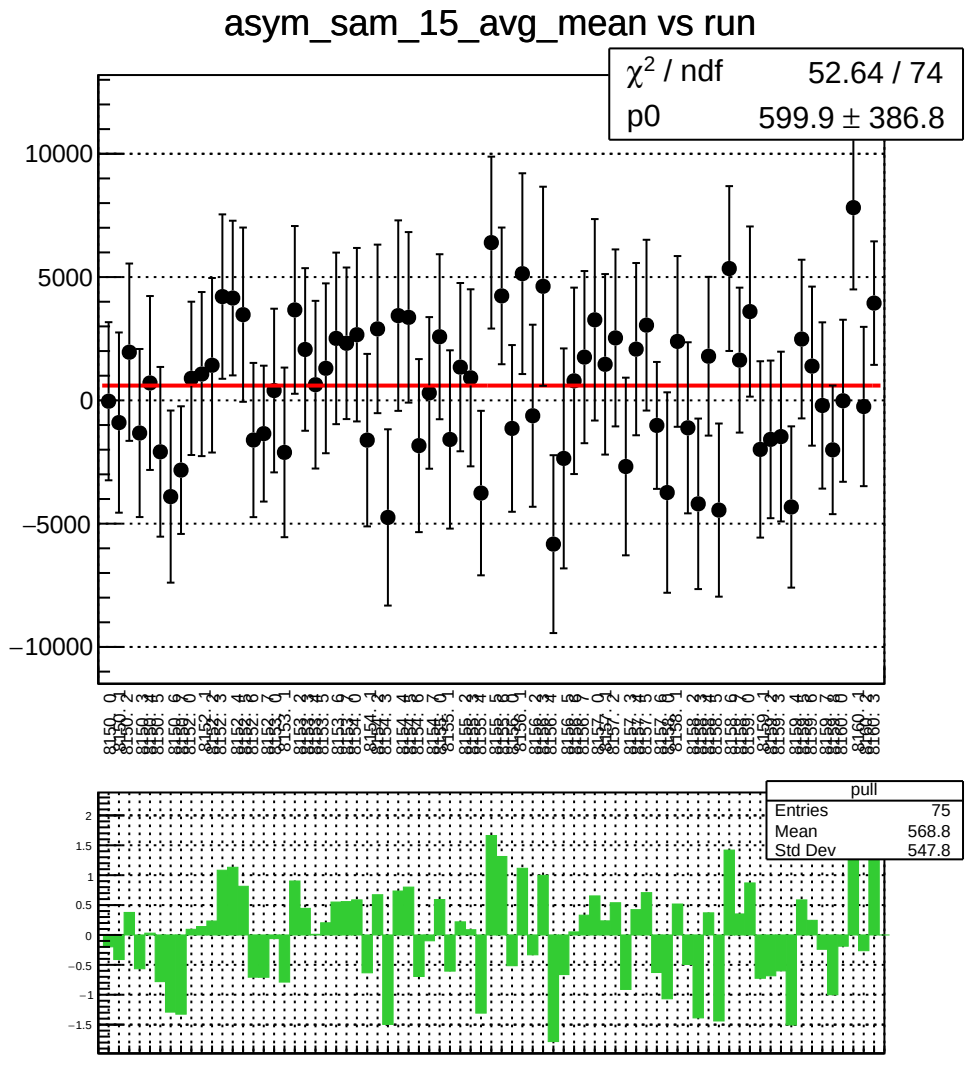

pull1D
Entries 75
Mean 0.01138
Std Dev 0.9869
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

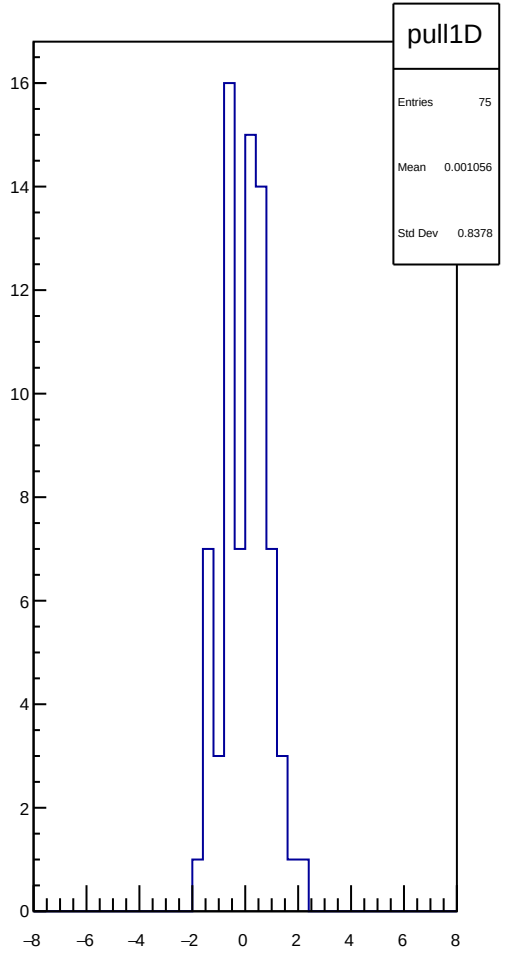

reg_asym_sam_15_avg_rms vs run
χ² / ndf 2600 / 74
p0 58.03 ± 0.04833
68
66
64
62
60
58
56
54

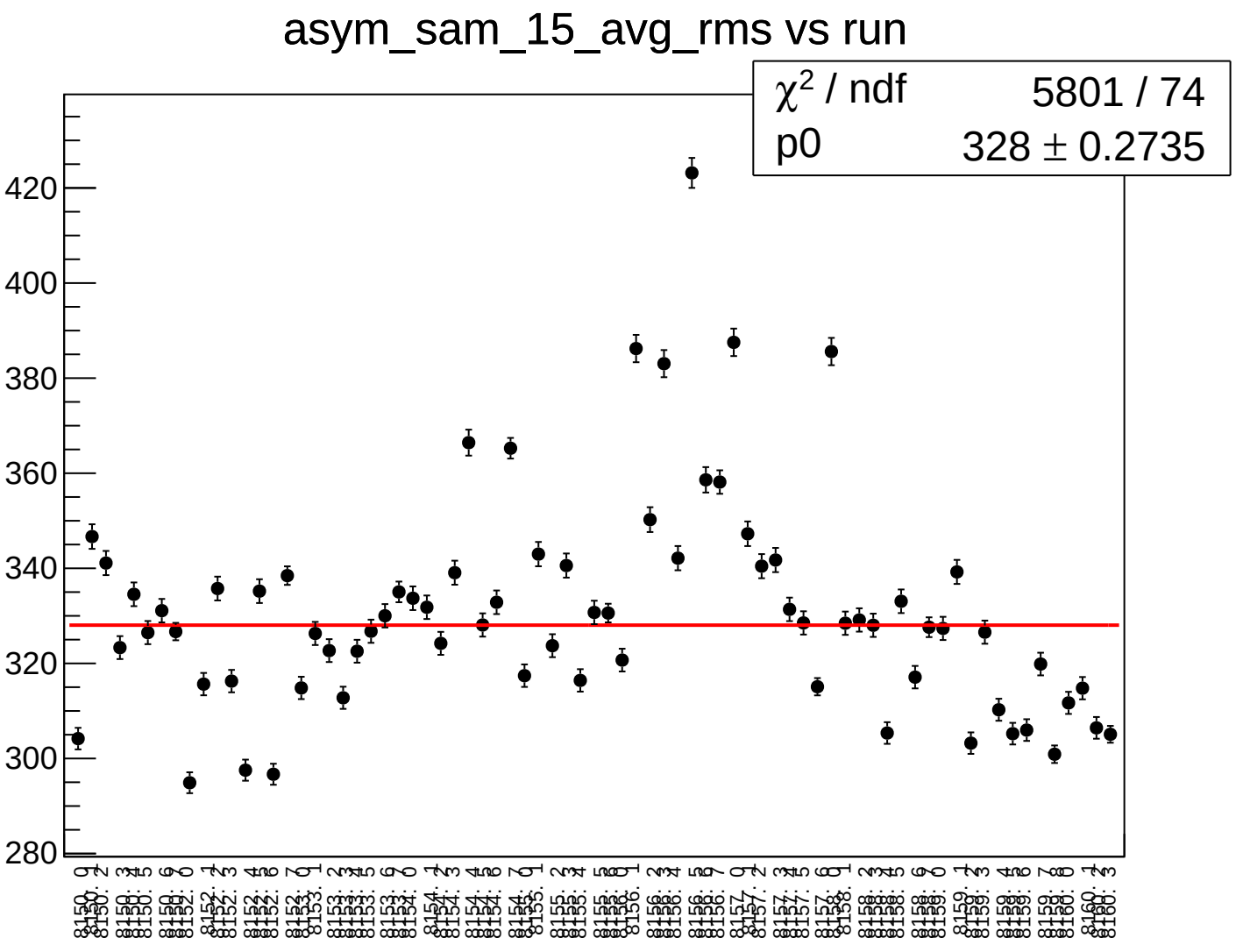

asym_sam_15_avg_correction_mean vs run
χ² / ndf 49.85 / 74
p0 −467.1 ± 380.6
10000
5000
0
−5000
−10000
pull
Entries 75
Mean −491.4
Std Dev 496.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

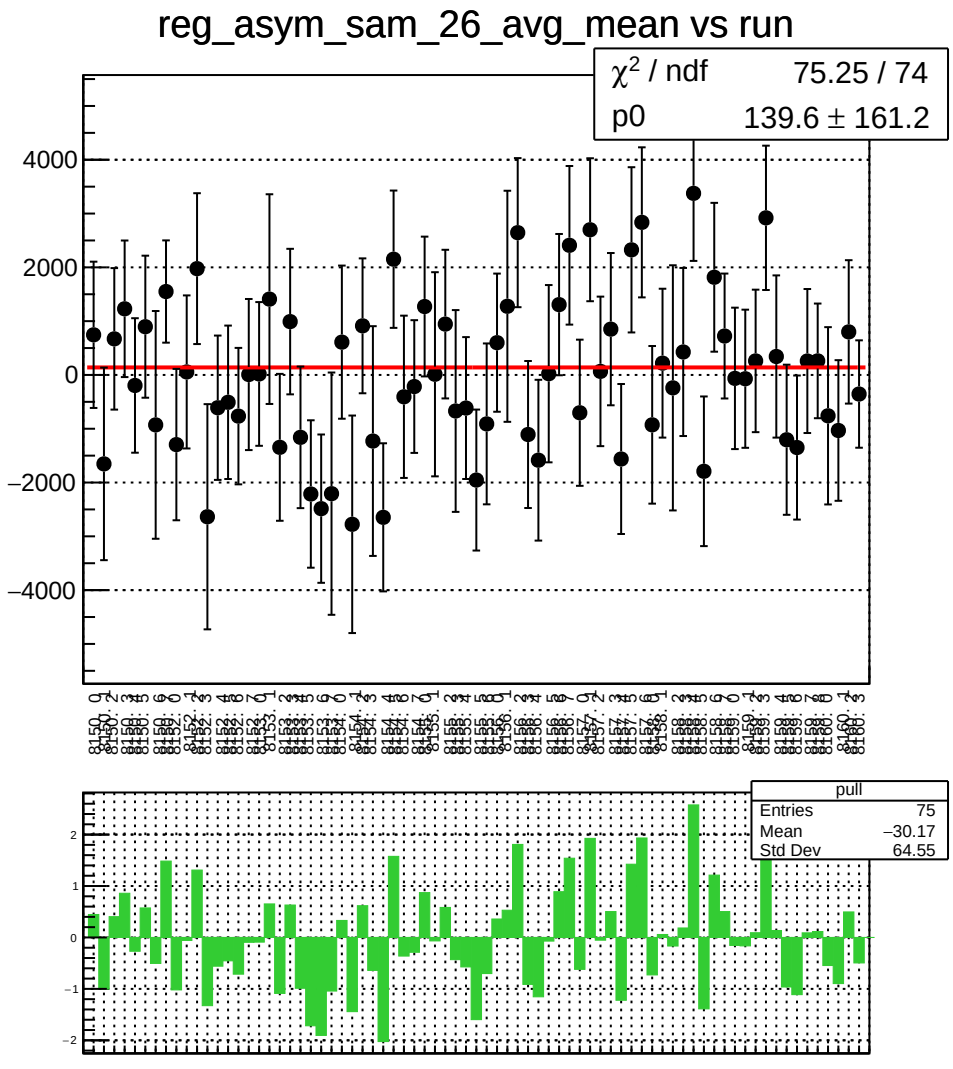

pull1D
Entries 75
Mean 0.0006652
Std Dev 0.8153
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

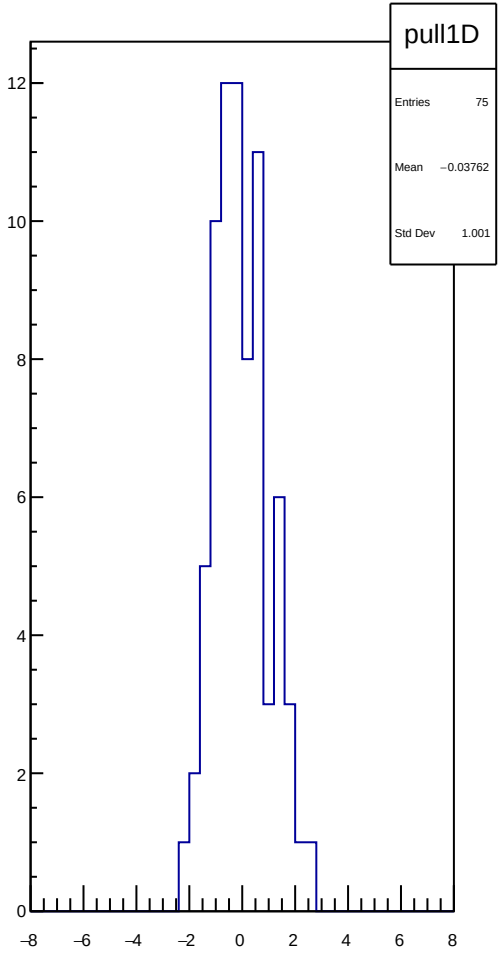

asym_sam_15_avg_correction_rms vs run
χ² / ndf 6083 / 74
p0 322.8 ± 0.2691
420
400
380
360
340
320
300
280

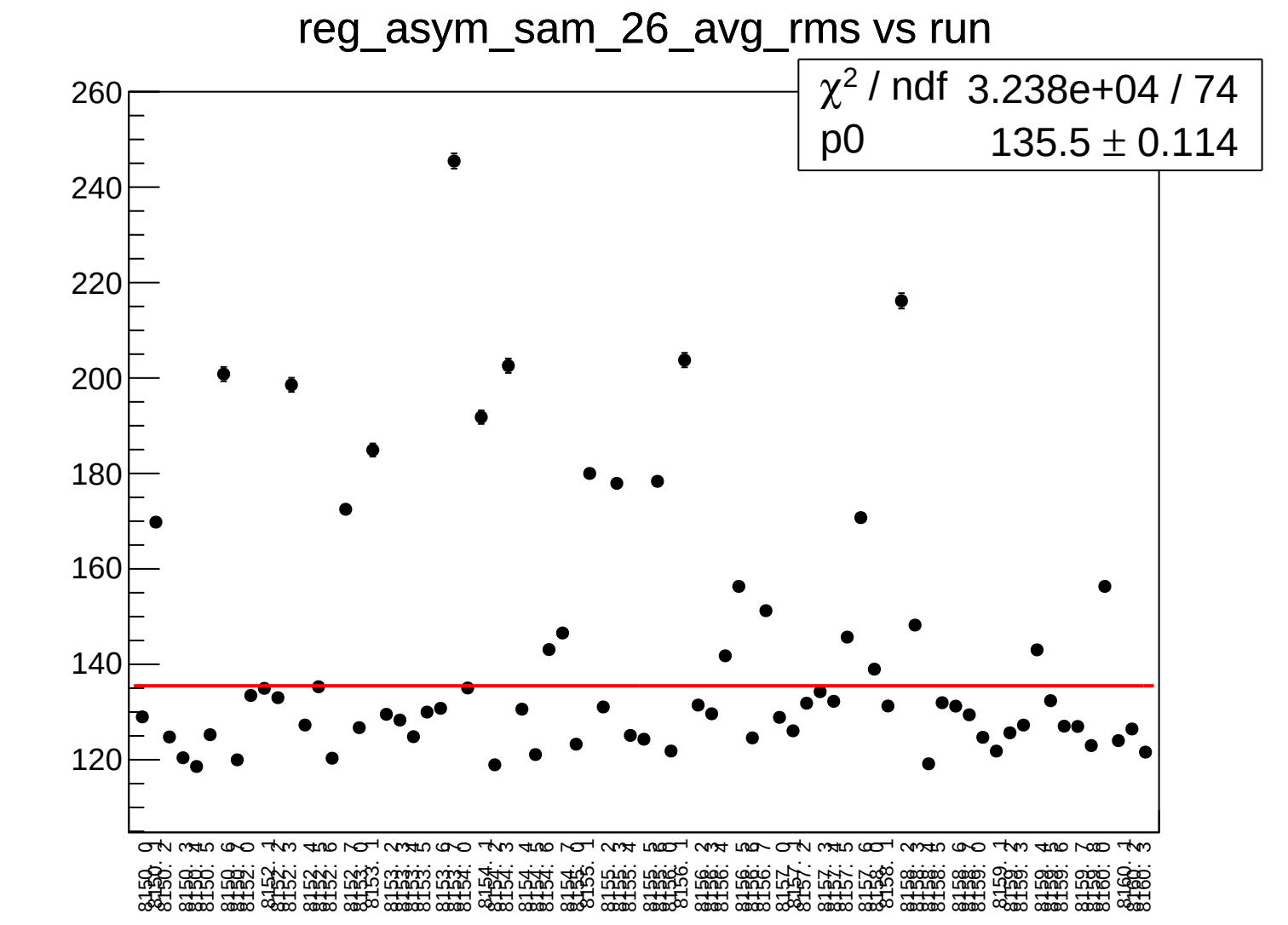

asym_sam_15_avg_mean vs run
χ² / ndf 52.64 / 74
p0 599.9 ± 386.8
10000
5000
0
−5000
−10000
pull
Entries 75
Mean 568.8
Std Dev 547.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

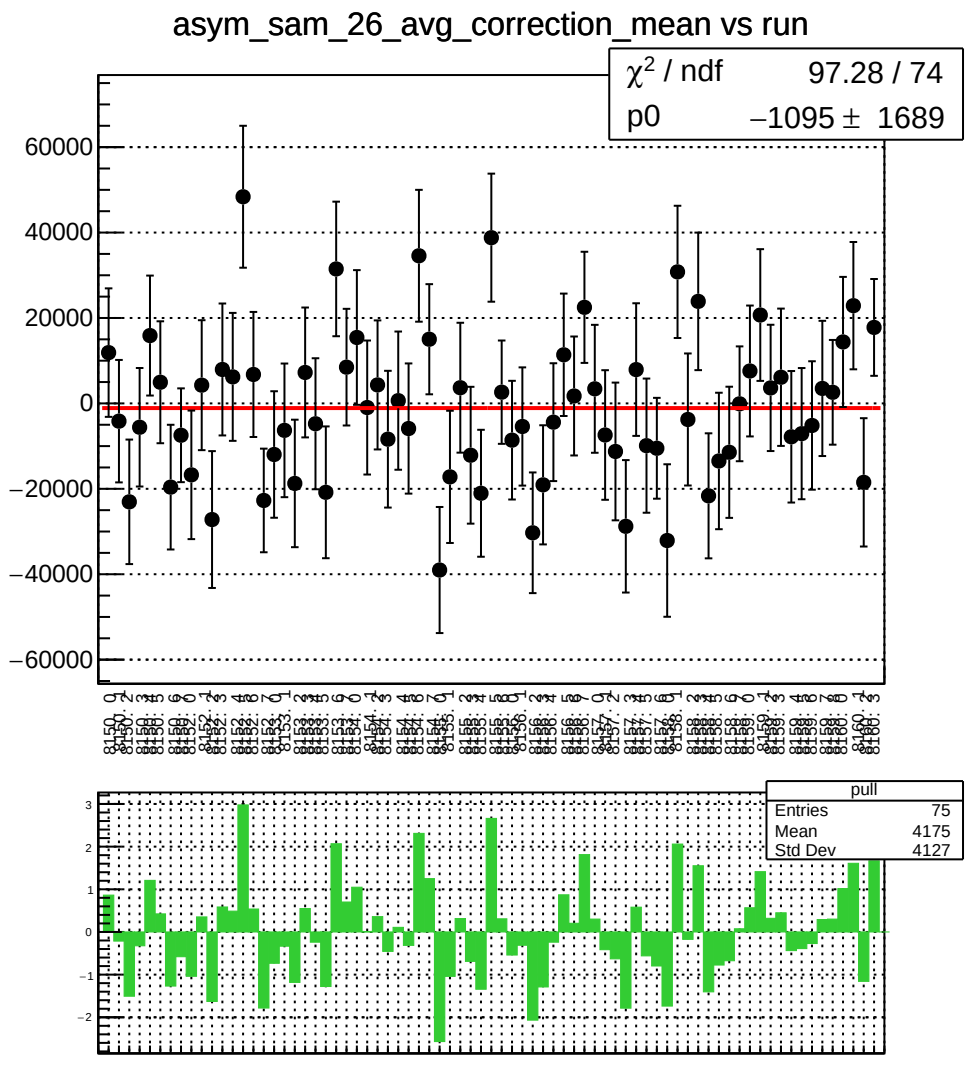

pull1D
Entries 75
Mean 0.001056
Std Dev 0.8378
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

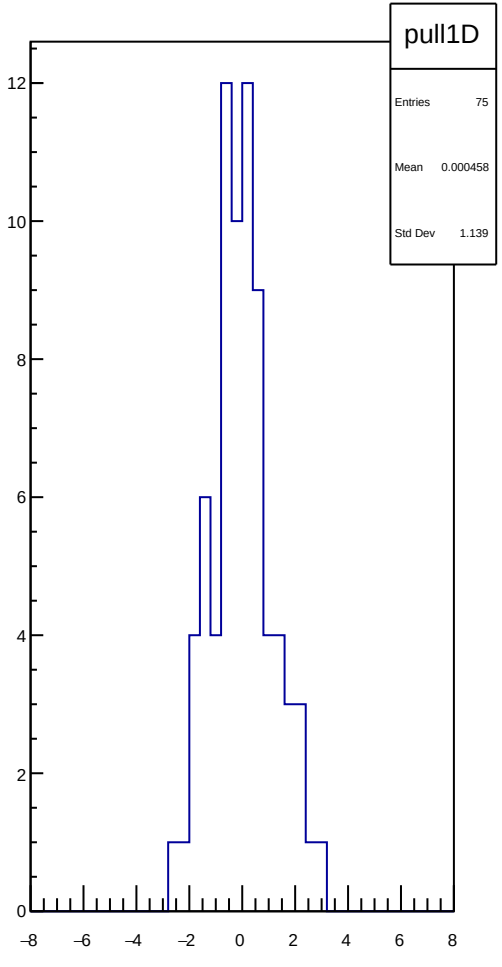

asym_sam_15_avg_rms vs run
χ^2 / ndf 5801 / 74
p0 328 ± 0.2735
420
400
380
360
340
320
300
280

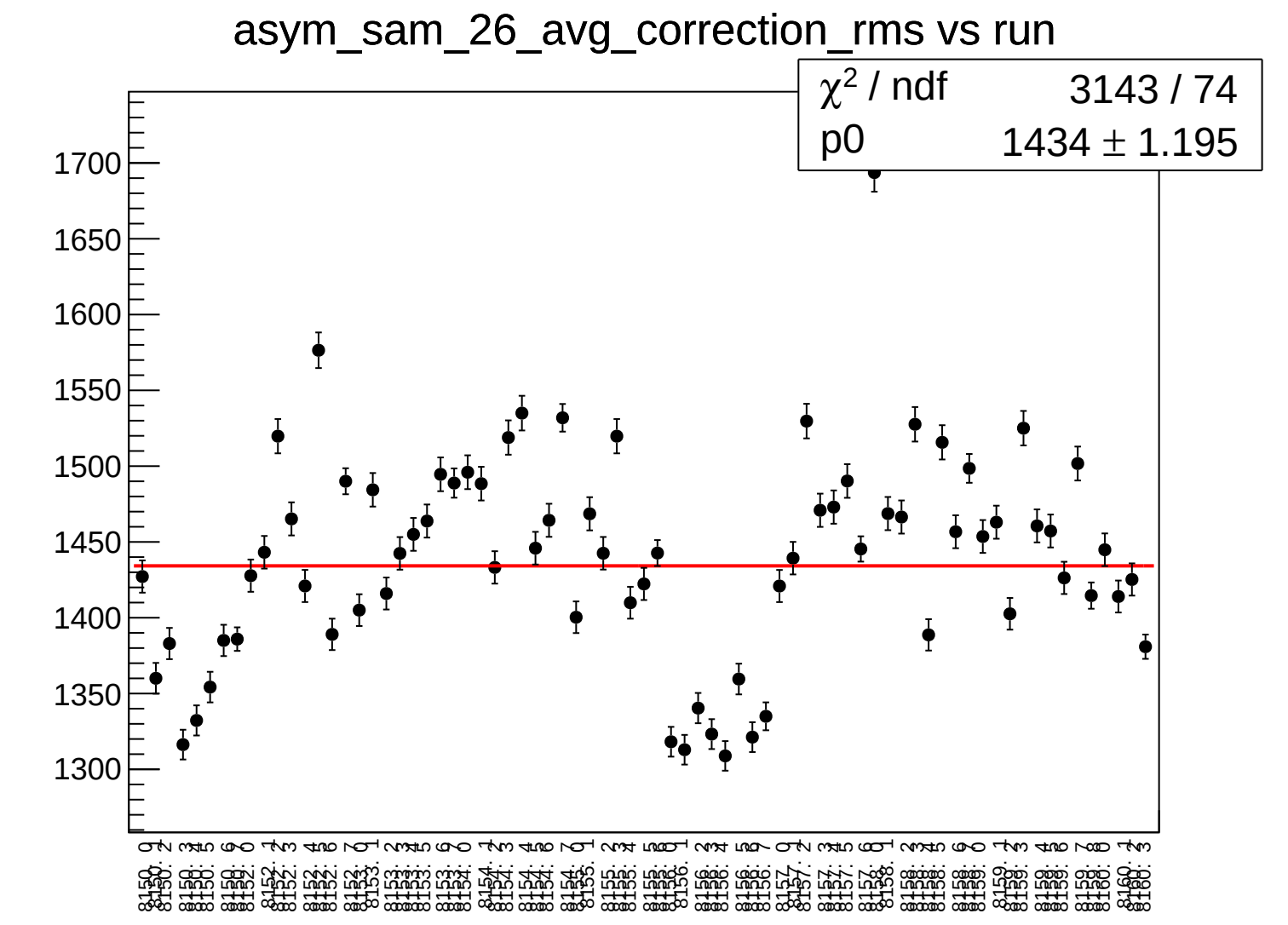

reg_asym_sam_26_avg_mean vs run
χ² / ndf 75.25 / 74
p0 139.6 ± 161.2
4000
2000
0
−2000
−4000
pull
Entries 75
Mean −30.17
Std Dev 64.55
2
1
0
−1
−2

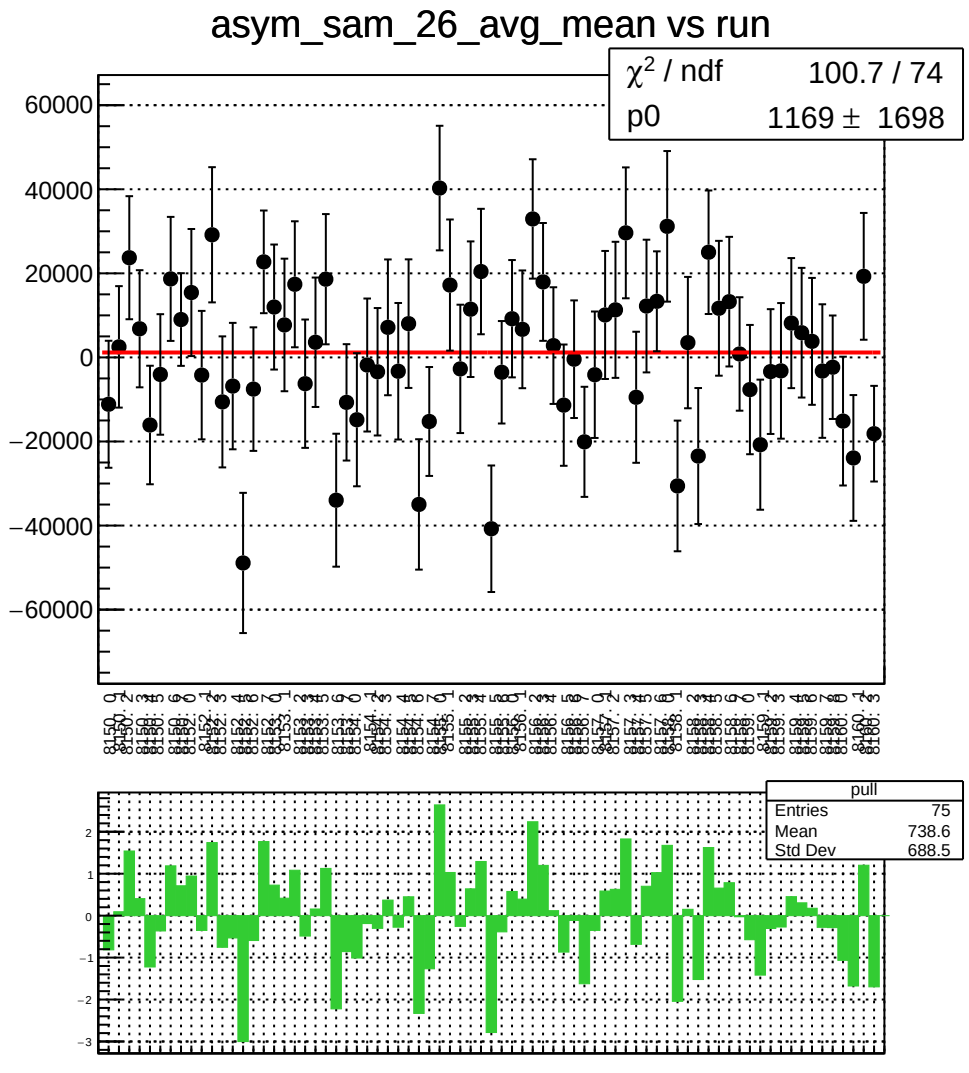

pull1D
Entries 75
Mean −0.03762
Std Dev 1.001
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

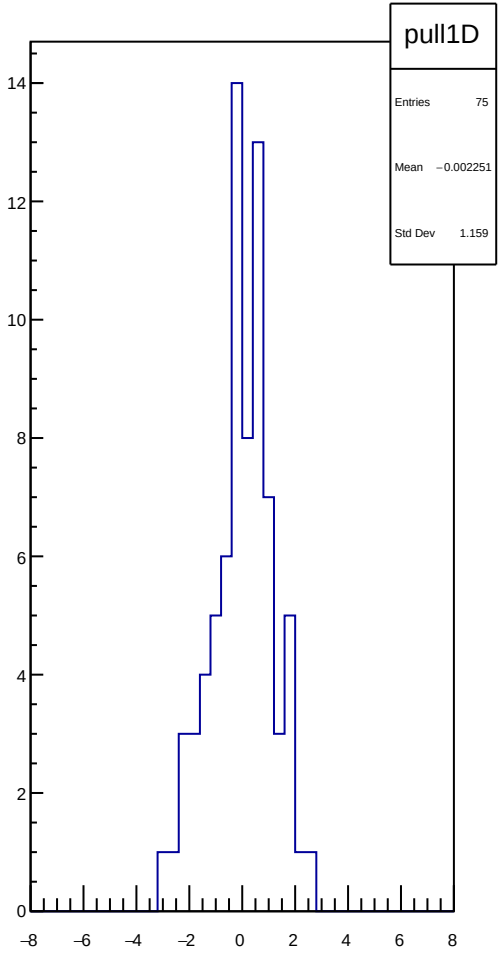

reg_asym_sam_26_avg_rms vs run
χ² / ndf 3.238e+04 / 74
p0 135.5 ± 0.114
260
240
220
200
180
160
140
120

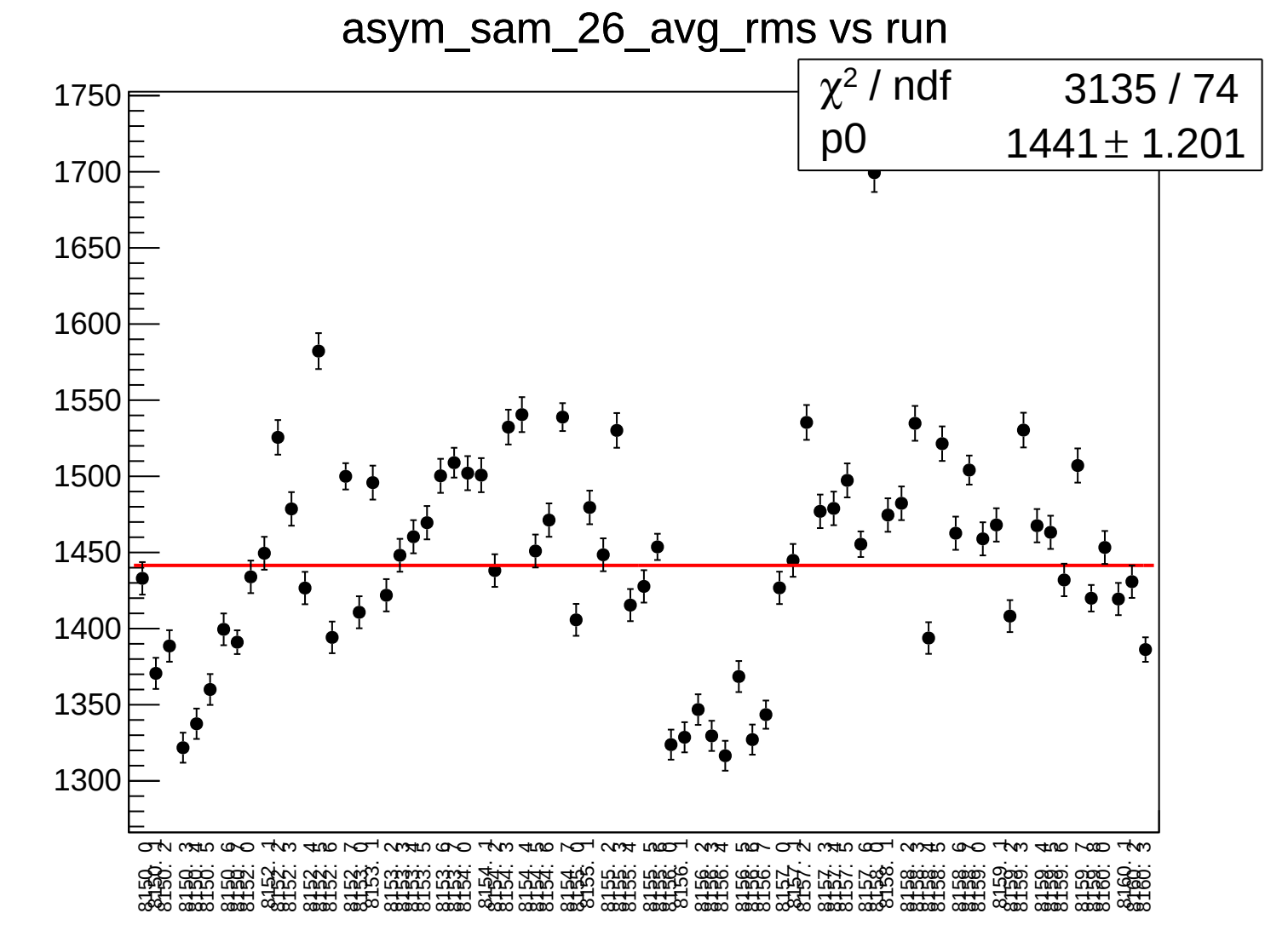

asym_sam_26_avg_correction_mean vs run
χ² / ndf 97.28 / 74
p0 −1095 ± 1689
pull
Entries 75
Mean 4175
Std Dev 4127

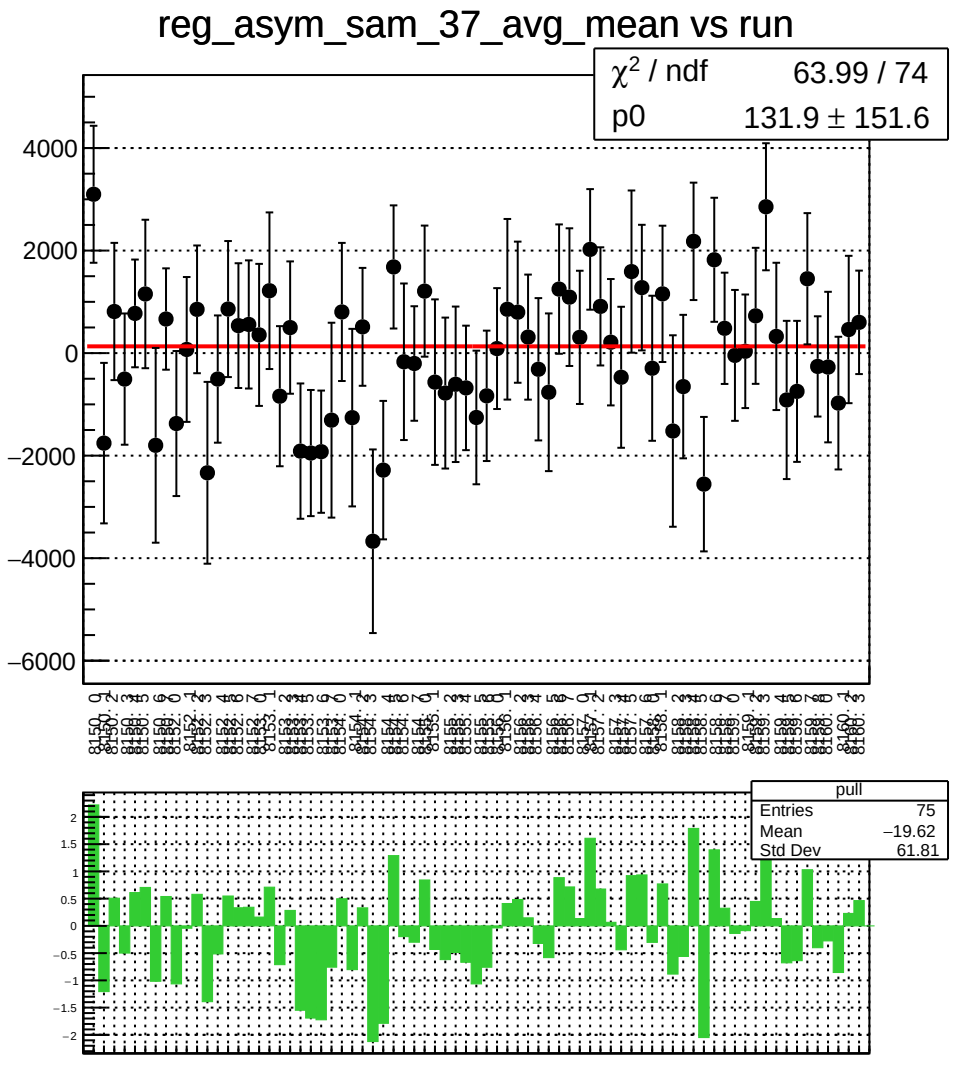

pull1D
Entries 75
Mean 0.000458
Std Dev 1.139

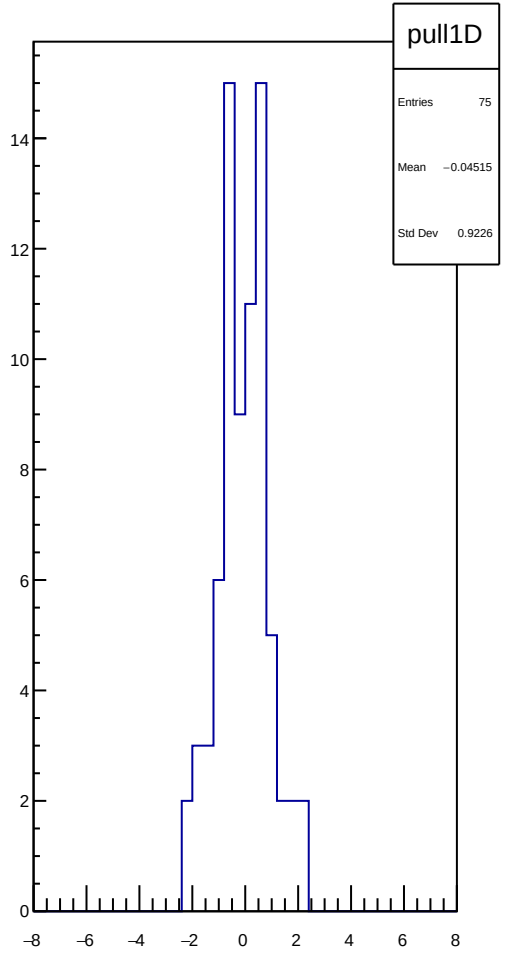

asym_sam_26_avg_correction_rms vs run
χ² / ndf 3143 / 74
p0 1434 ± 1.195
1700
1650
1600
1550
1500
1450
1400
1350
1300

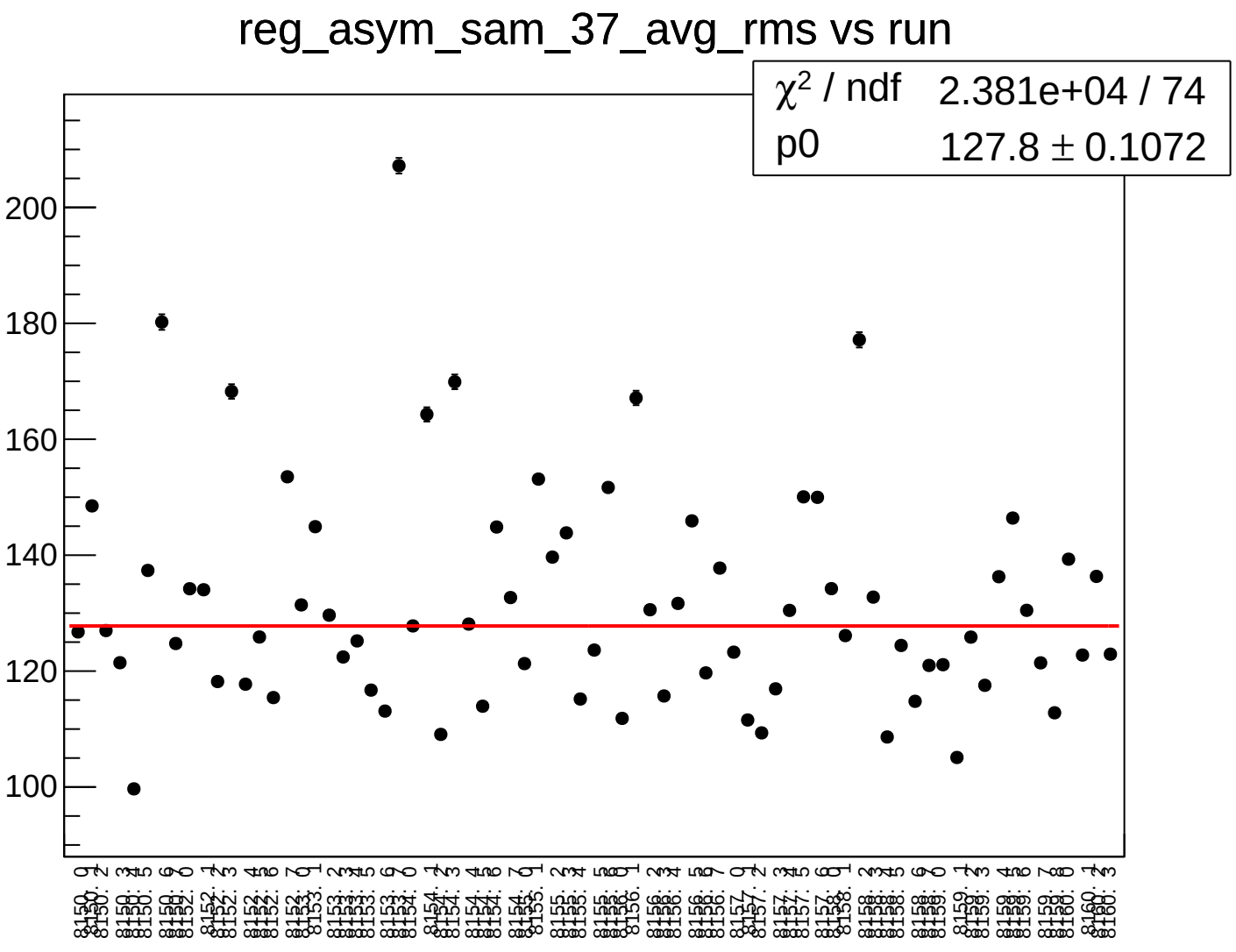

asym_sam_26_avg_mean vs run
χ² / ndf 100.7 / 74
p0 1169 ± 1698
pull
Entries 75
Mean 738.6
Std Dev 688.5

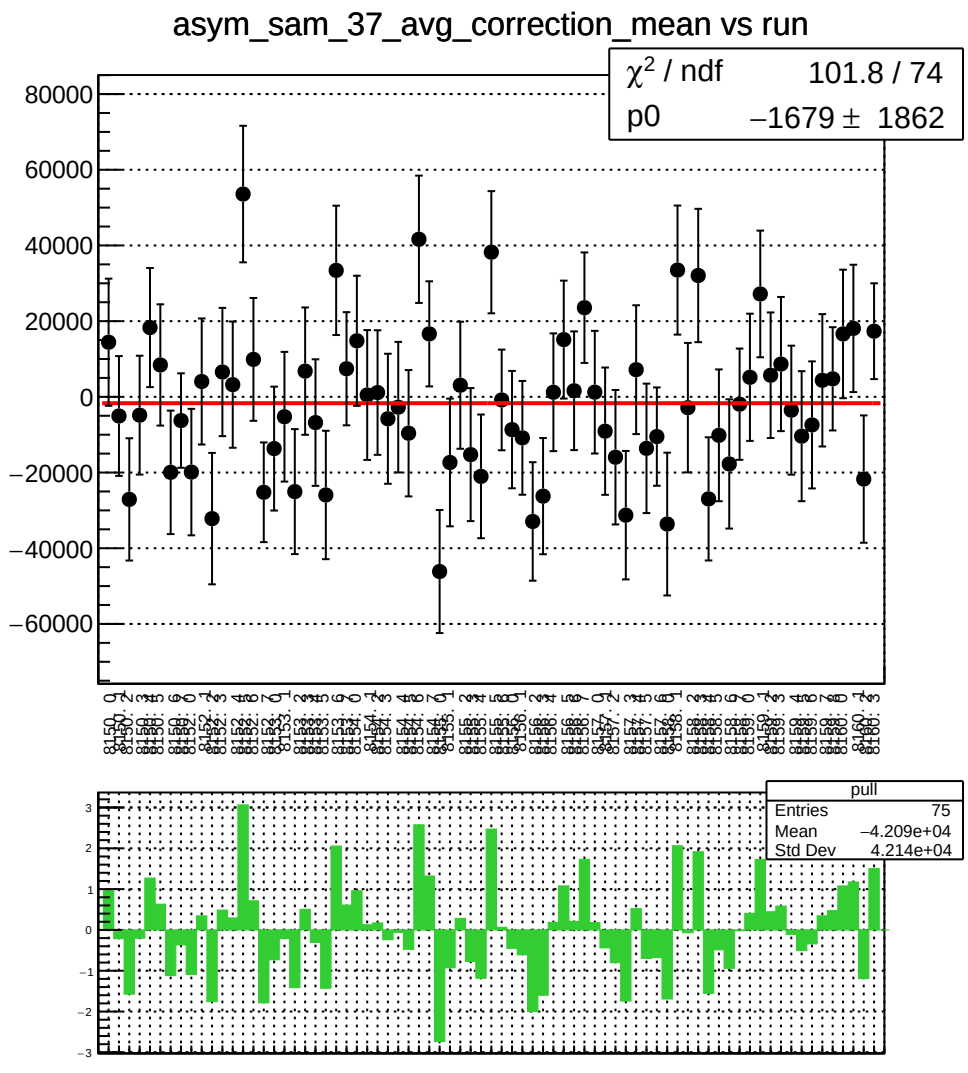

pull1D
Entries 75
Mean −0.002251
Std Dev 1.159

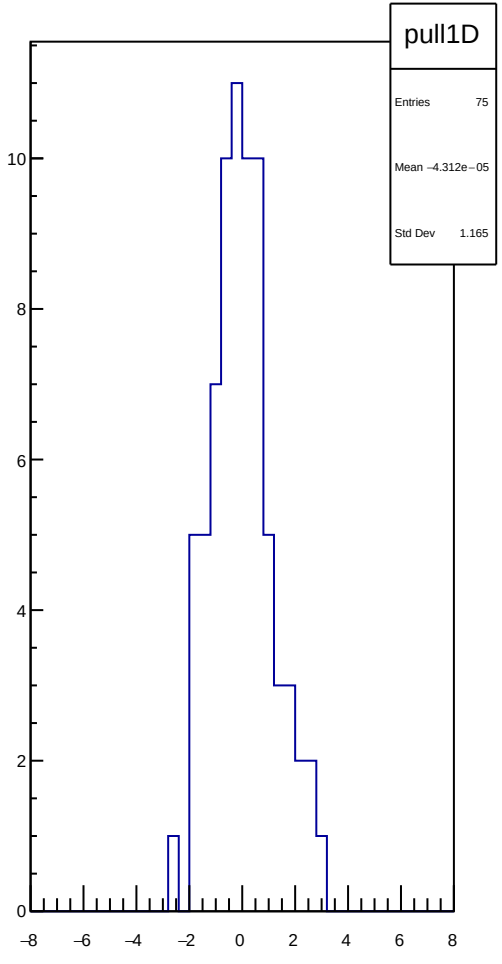

asym_sam_26_avg_rms vs run
χ² / ndf 3135 / 74
p0 1441 ± 1.201
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300

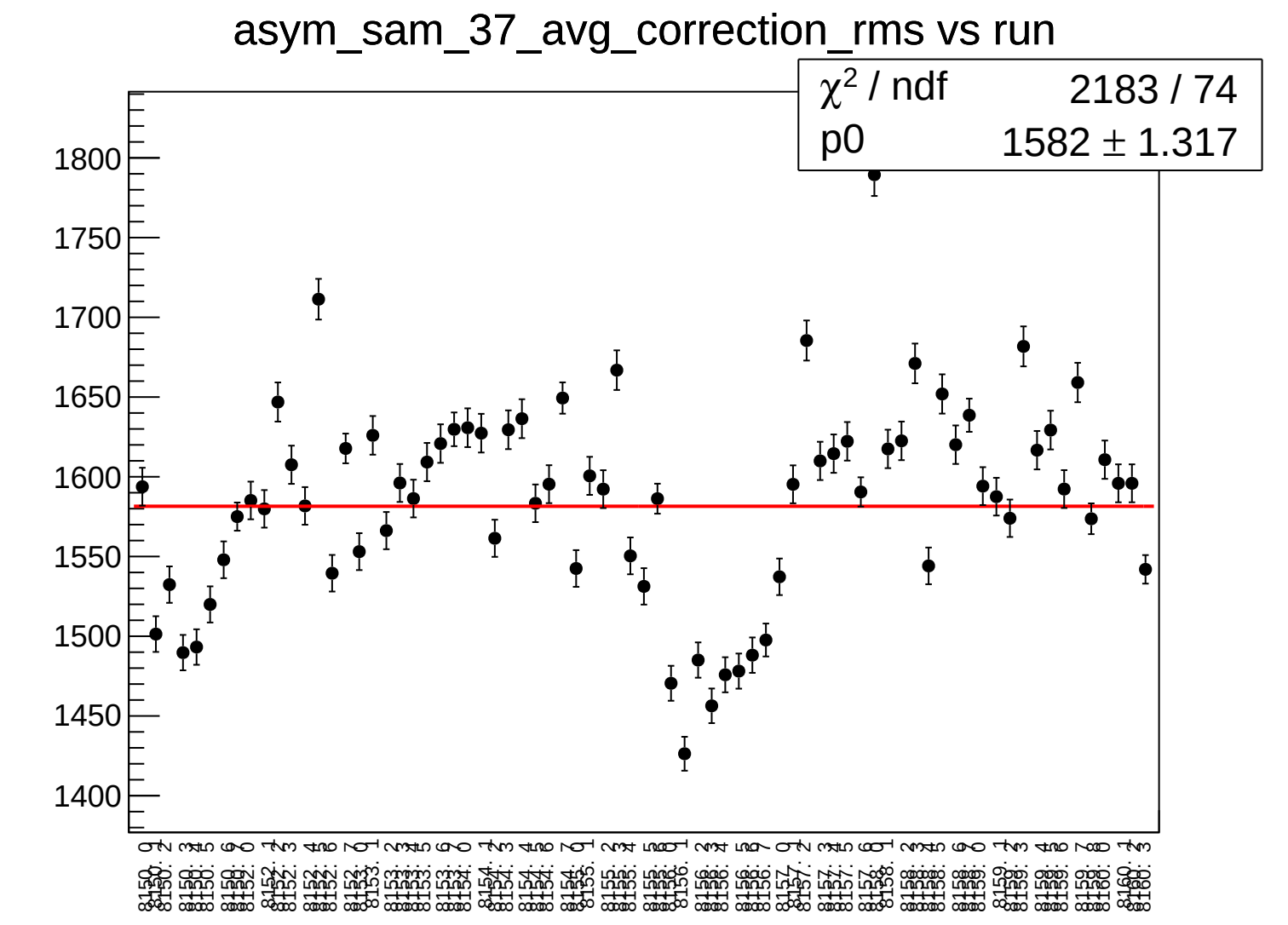

reg_asym_sam_37_avg_mean vs run
χ² / ndf 63.99 / 74
p0 131.9 ± 151.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 75
Mean −19.62
Std Dev 61.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

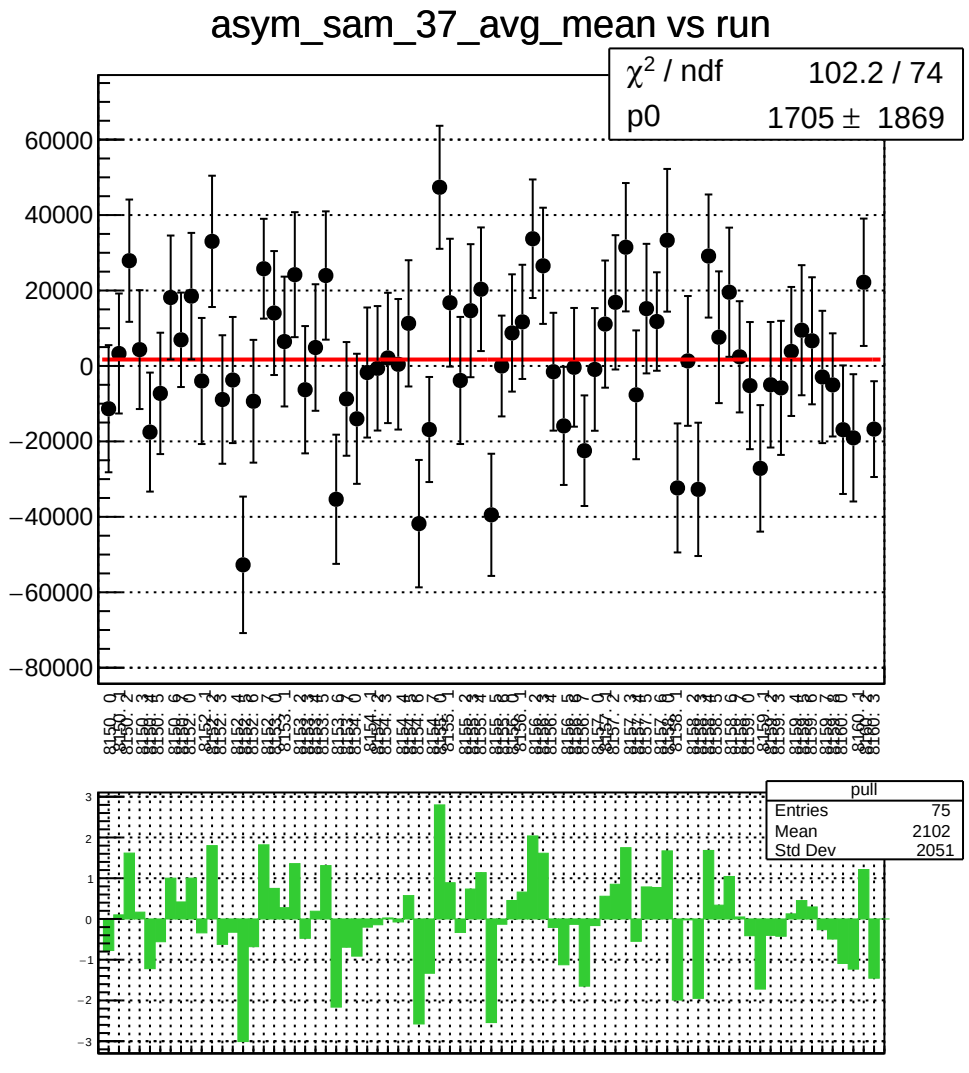

pull1D
Entries 75
Mean −0.04515
Std Dev 0.9226
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

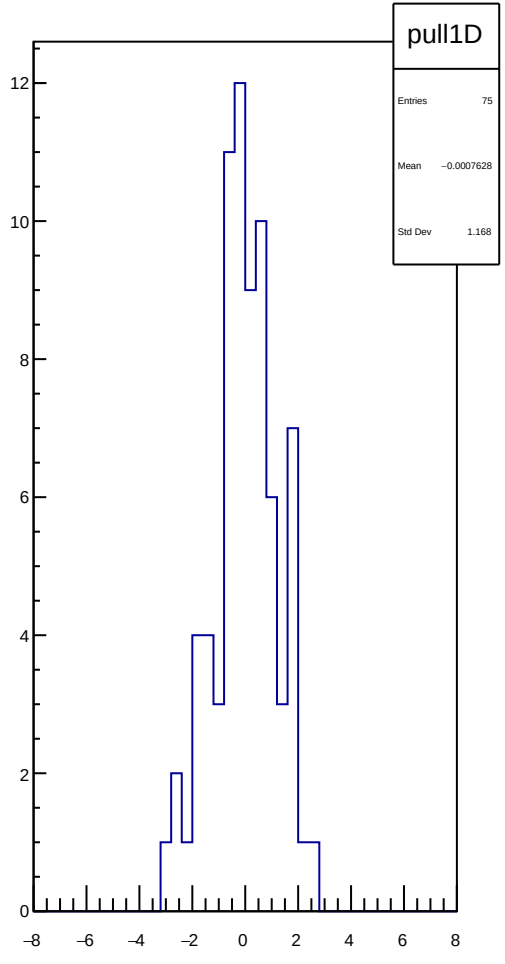

reg_asym_sam_37_avg_rms vs run
χ² / ndf 2.381e+04 / 74
p0 127.8 ± 0.1072
200
180
160
140
120
100

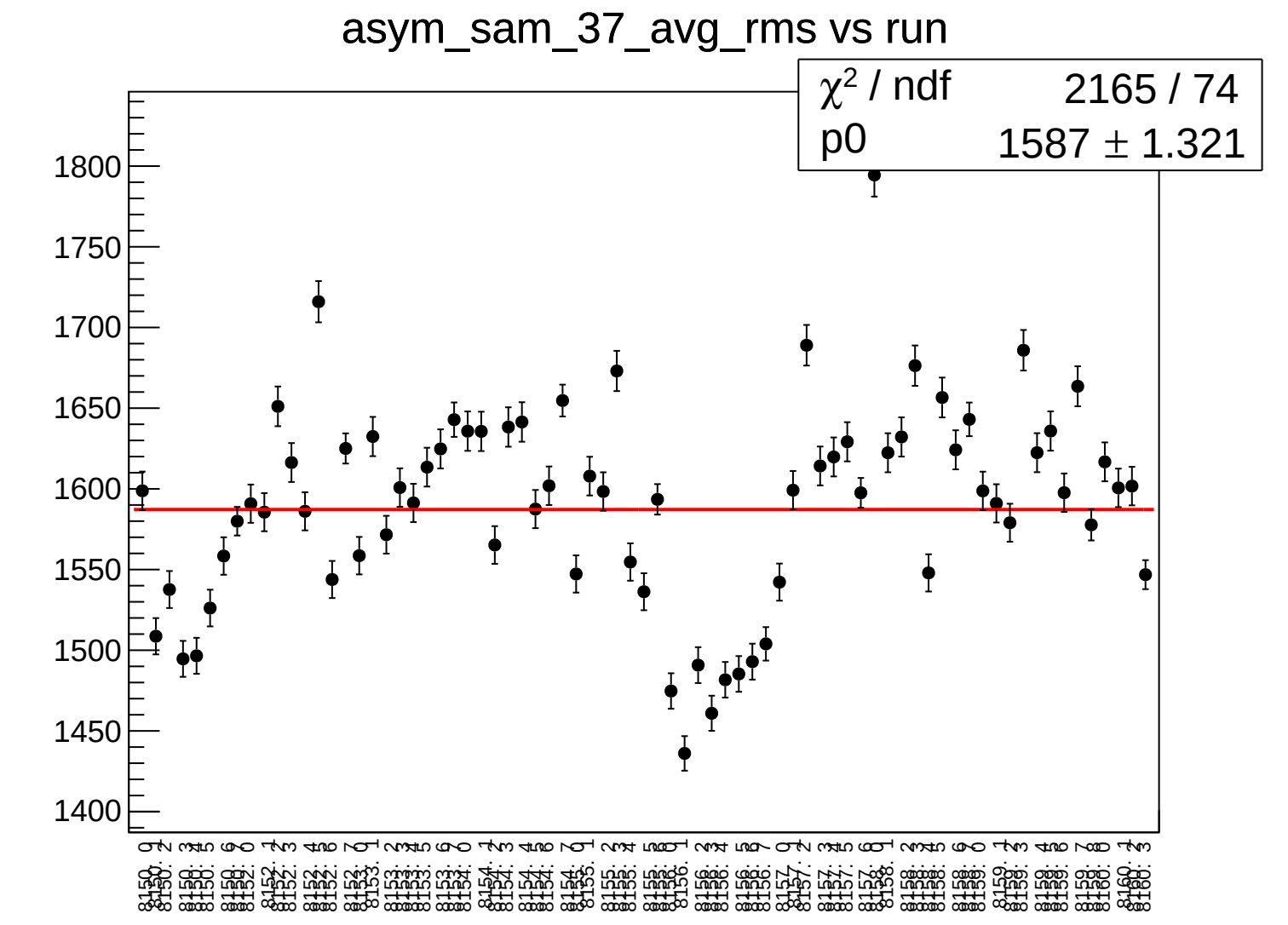

asym_sam_37_avg_correction_mean vs run
χ² / ndf 101.8 / 74
p0 −1679 ± 1862
pull
Entries 75
Mean −4.209e+04
Std Dev 4.214e+04

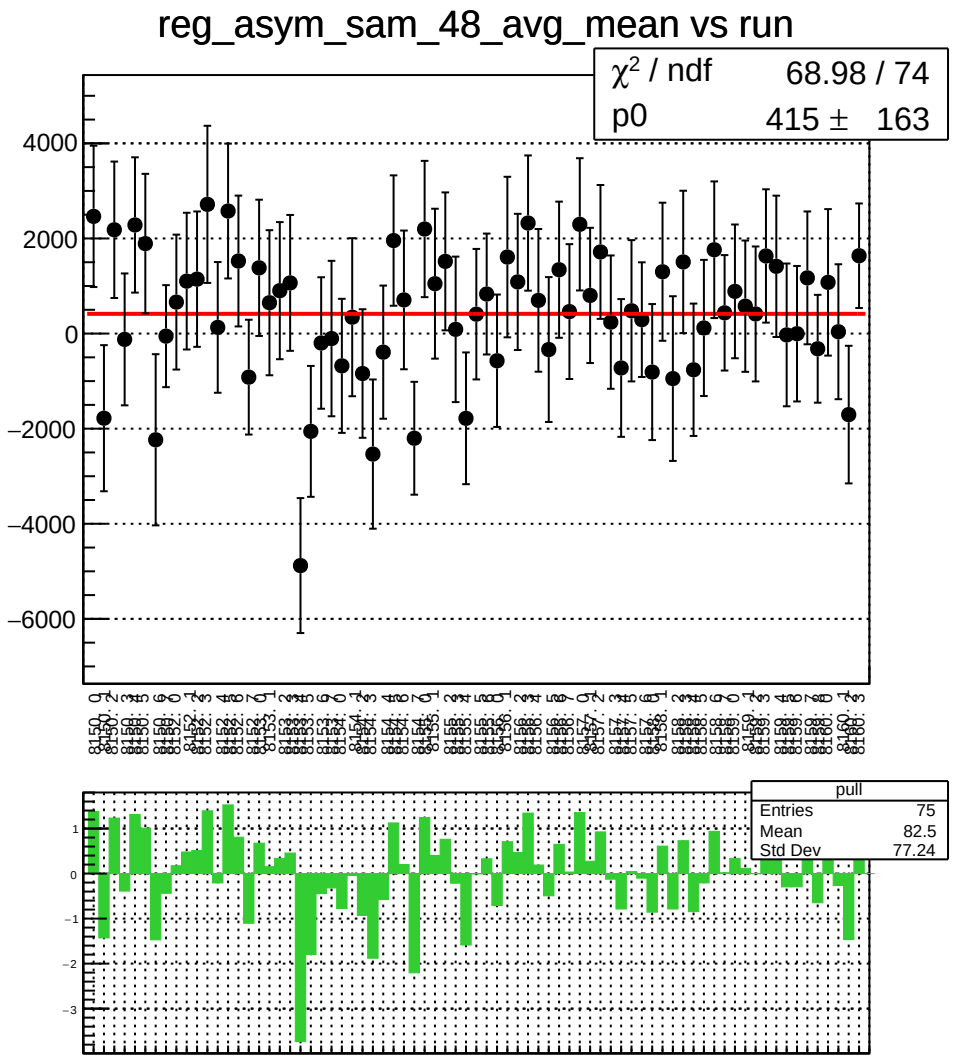

pull1D
Entries 75
Mean −4.312e−05
Std Dev 1.165

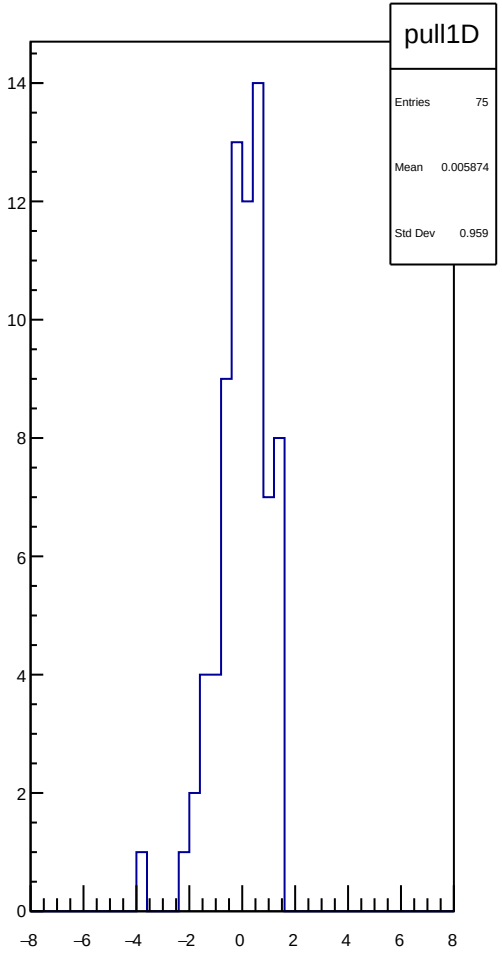

asym_sam_37_avg_correction_rms vs run
χ² / ndf 2183 / 74
p0 1582 ± 1.317
1800
1750
1700
1650
1600
1550
1500
1450
1400

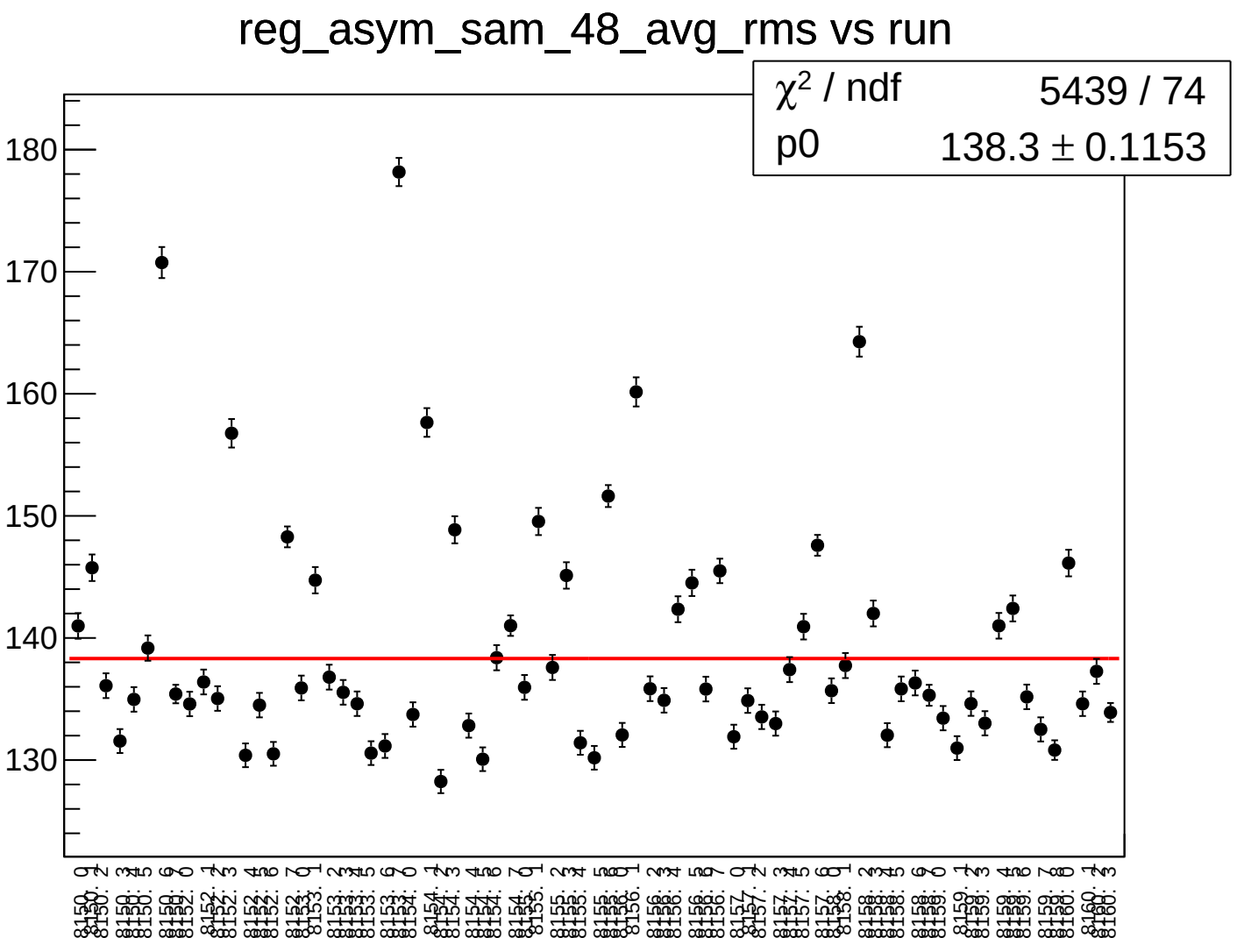

asym_sam_37_avg_mean vs run
χ² / ndf 102.2 / 74
p0 1705 ± 1869
pull
Entries 75
Mean 2102
Std Dev 2051

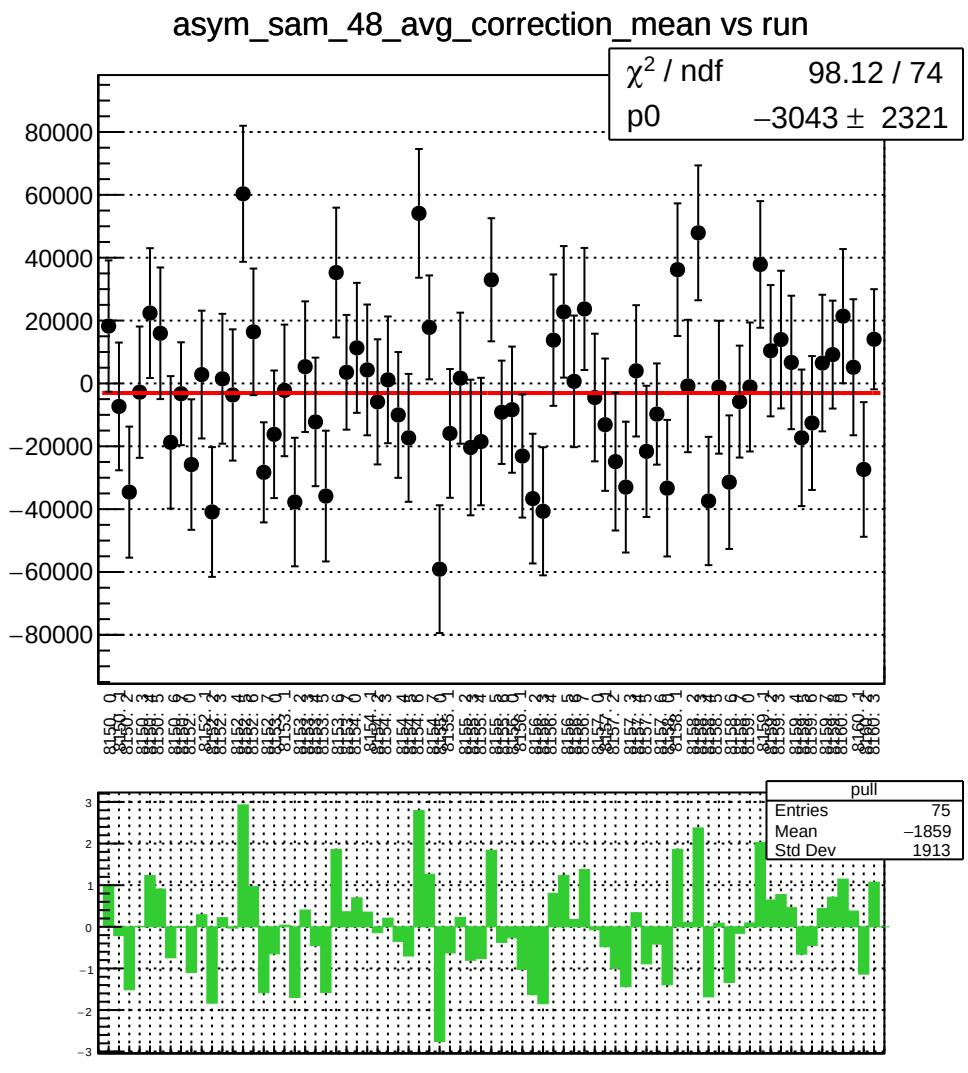

pull1D
Entries 75
Mean −0.0007628
Std Dev 1.168

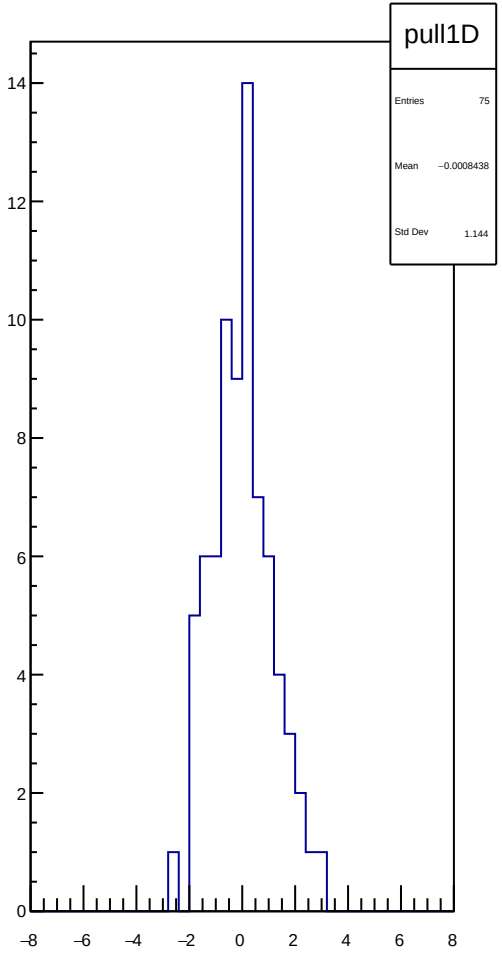

asym_sam_37_avg_rms vs run
χ² / ndf 2165 / 74
p0 1587 ± 1.321
1800
1750
1700
1650
1600
1550
1500
1450
1400

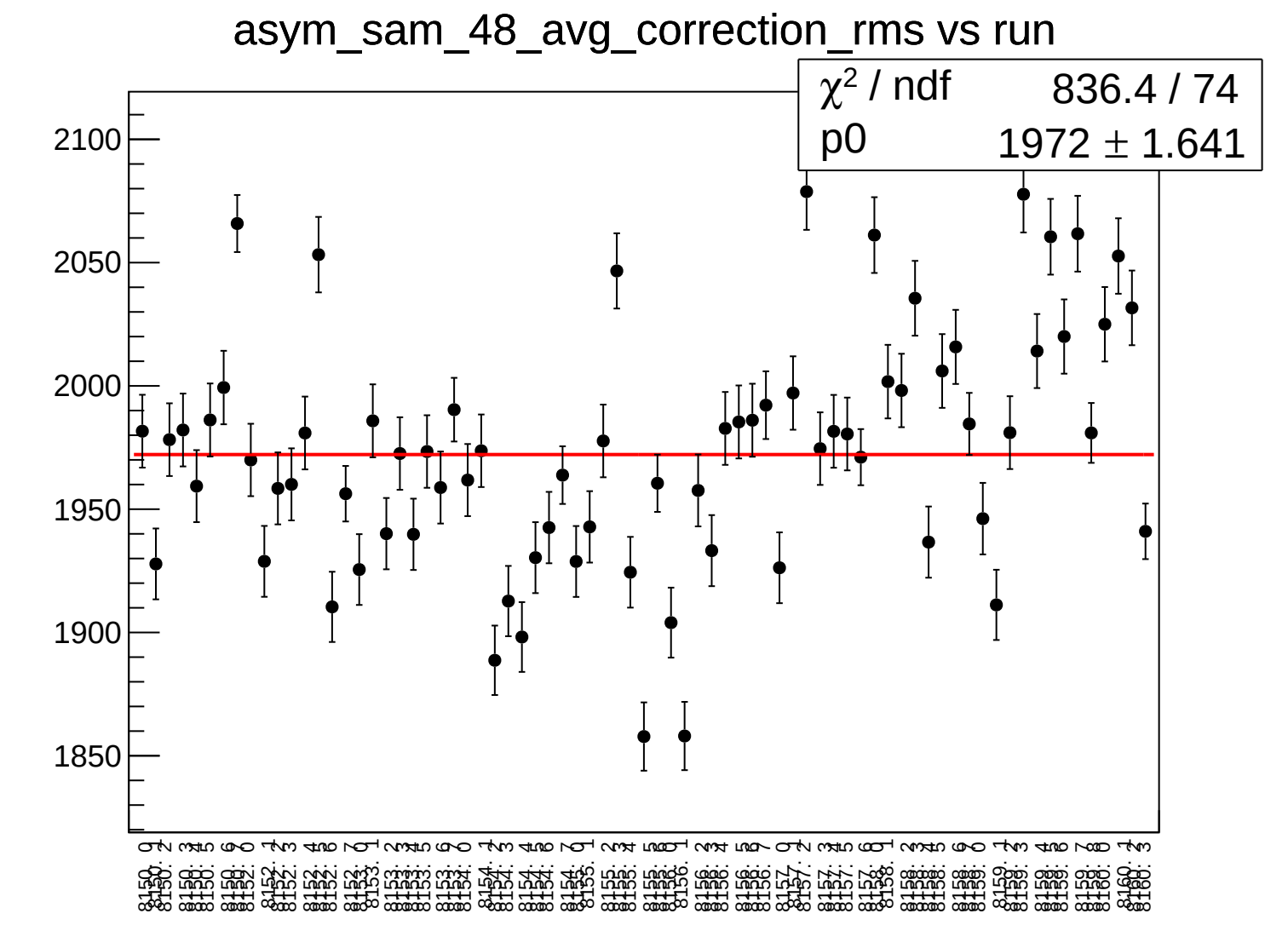

reg_asym_sam_48_avg_mean vs run
χ² / ndf 68.98 / 74
p0 415 ± 163
pull
Entries 75
Mean 82.5
Std Dev 77.24

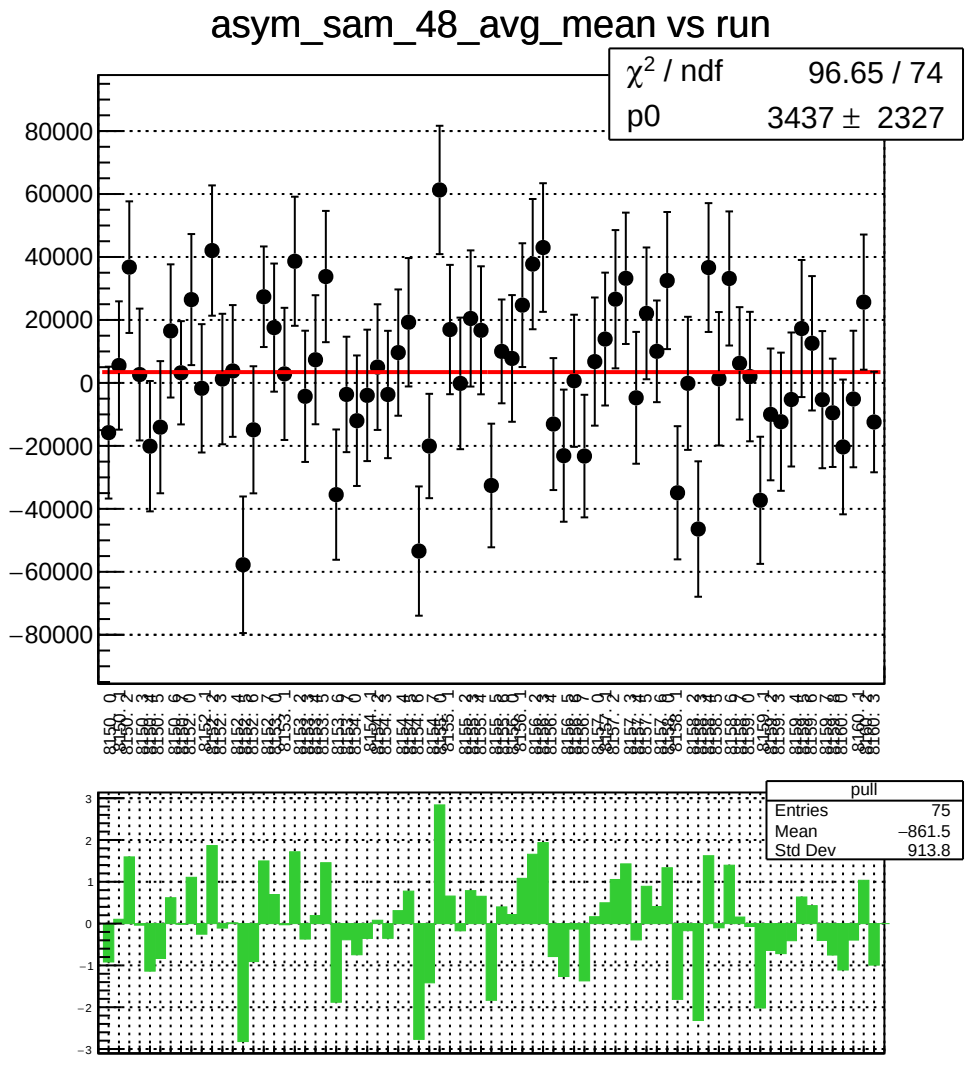

pull1D
Entries 75
Mean 0.005874
Std Dev 0.959

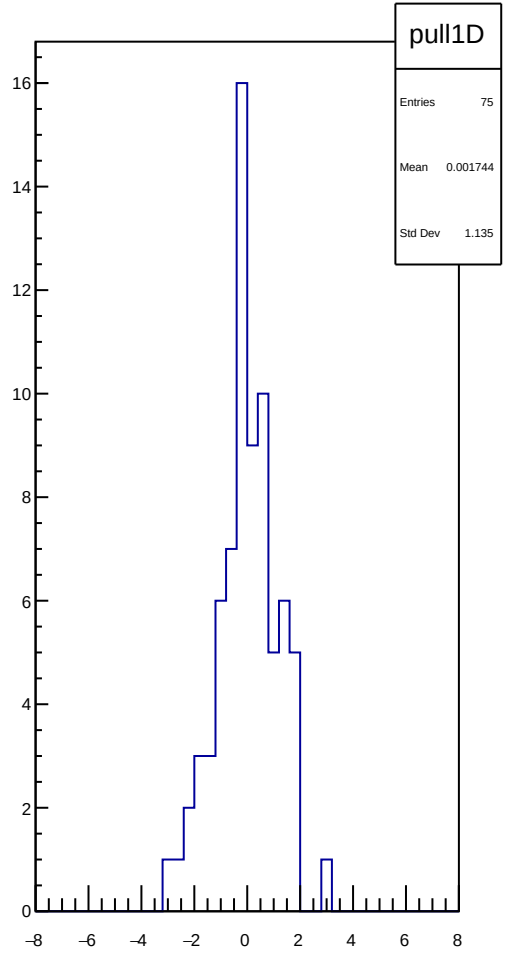

reg_asym_sam_48_avg_rms vs run
χ² / ndf 5439 / 74
p0 138.3 ± 0.1153
180
170
160
150
140
130

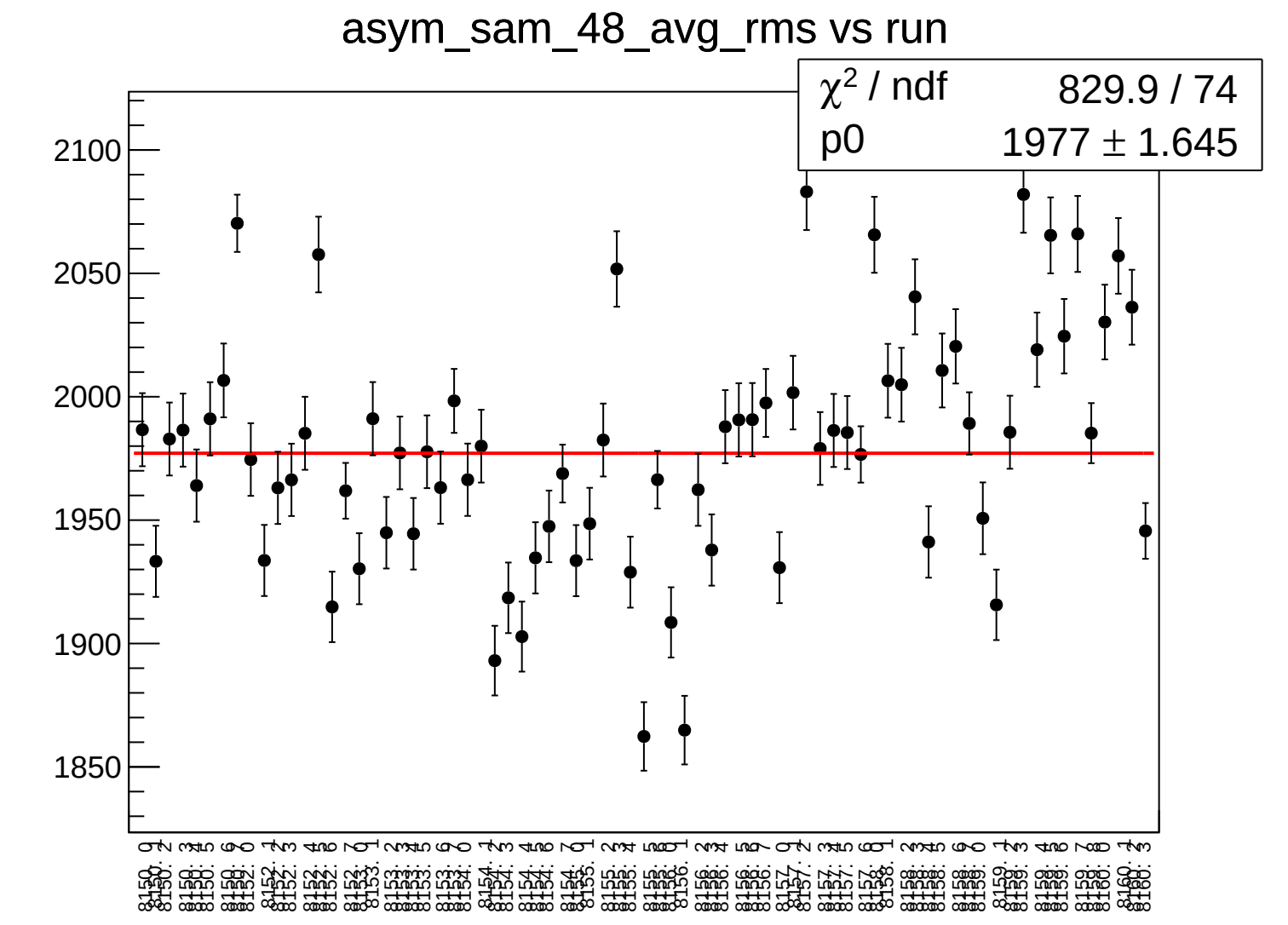

asym_sam_48_avg_correction_mean vs run
χ² / ndf 98.12 / 74
p0 −3043 ± 2321
pull
Entries 75
Mean −1859
Std Dev 1913

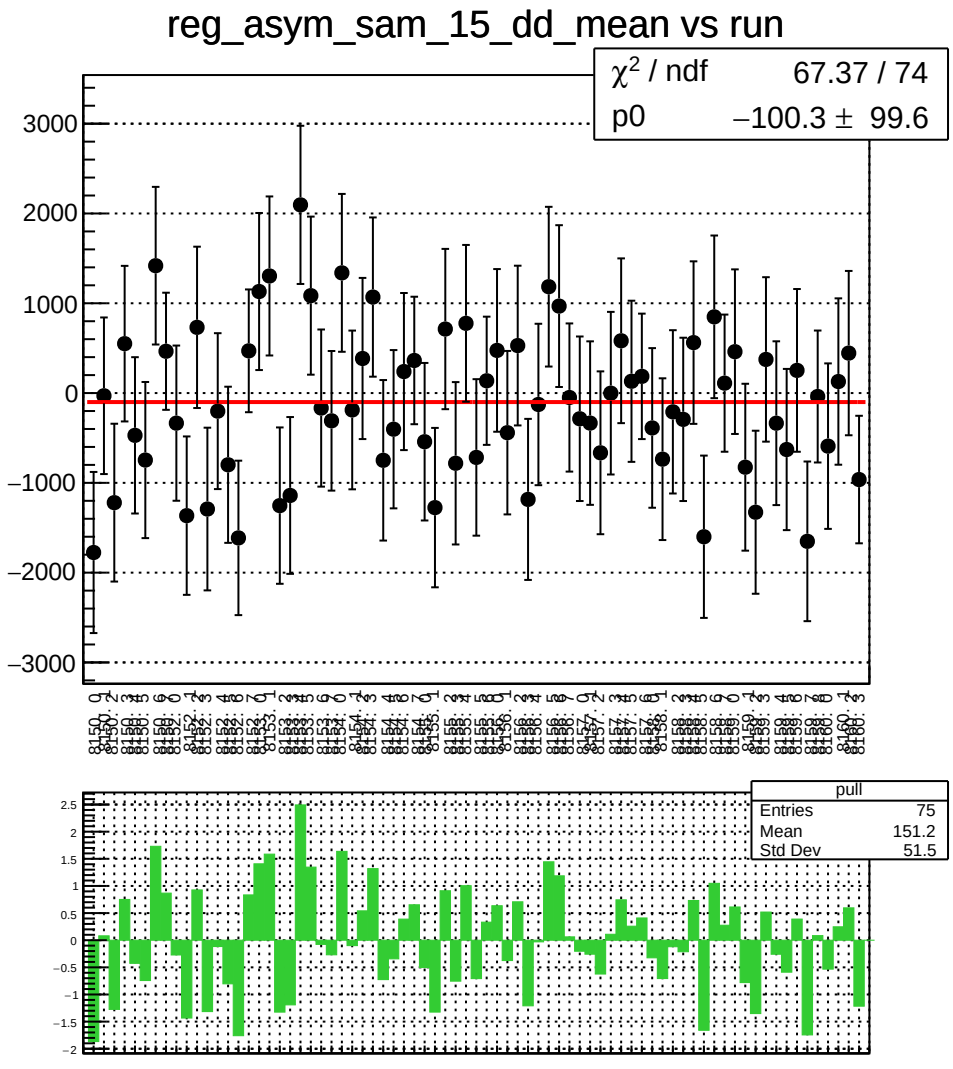

pull1D
Entries 75
Mean −0.0008438
Std Dev 1.144

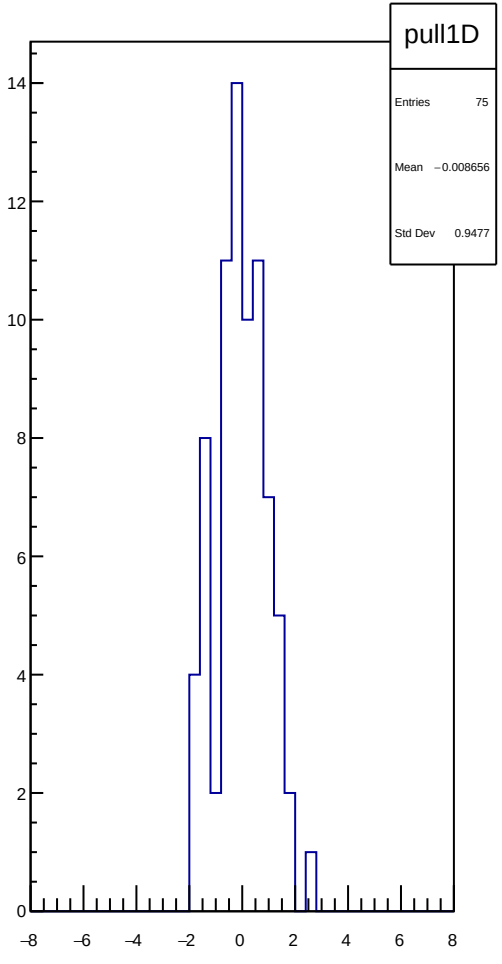

asym_sam_48_avg_correction_rms vs run
χ² / ndf 836.4 / 74
p0 1972 ± 1.641
2100
2050
2000
1950
1900
1850

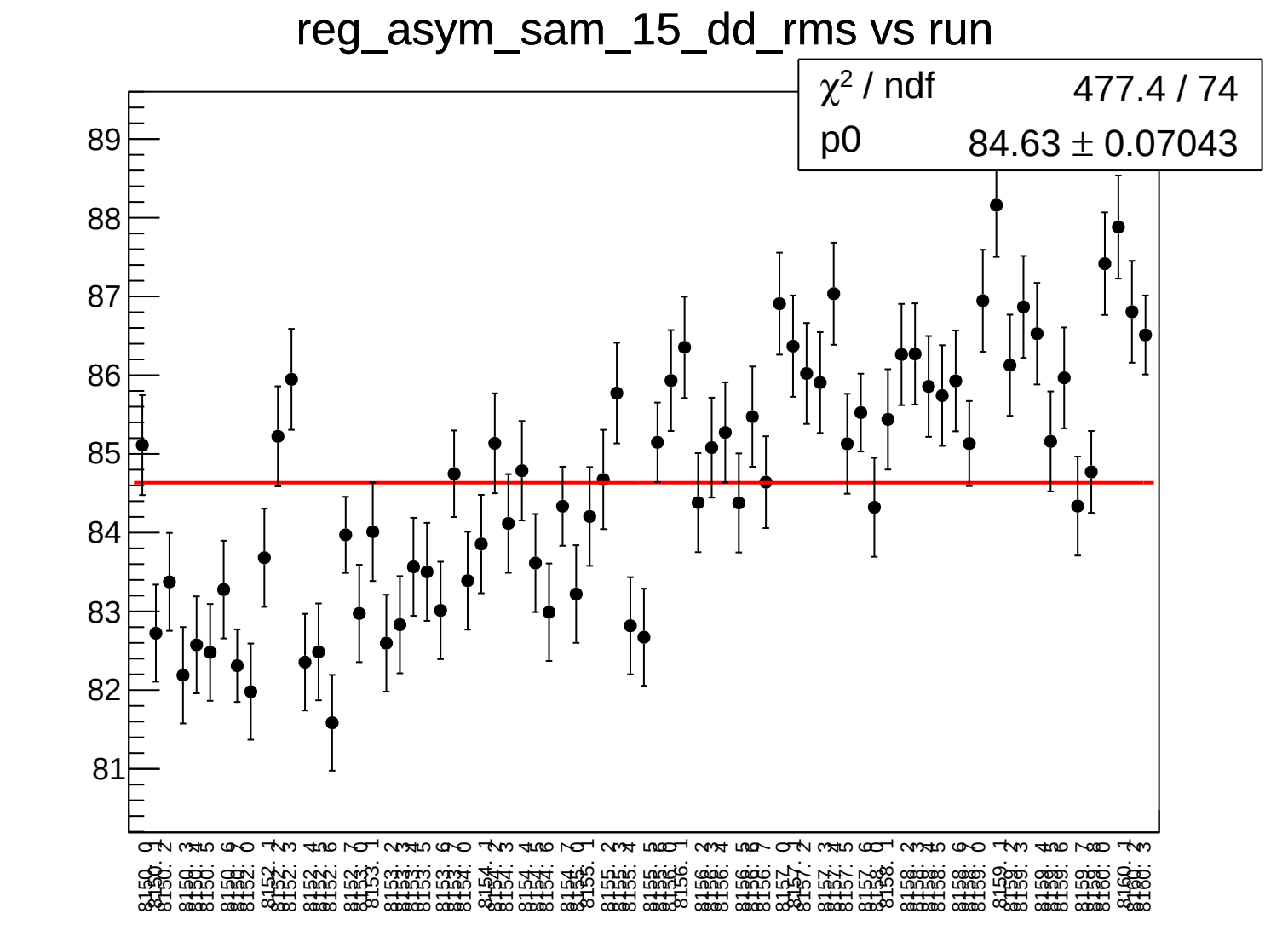

asym_sam_48_avg_mean vs run
χ² / ndf 96.65 / 74
p0 3437 ± 2327
pull
Entries 75
Mean −861.5
Std Dev 913.8

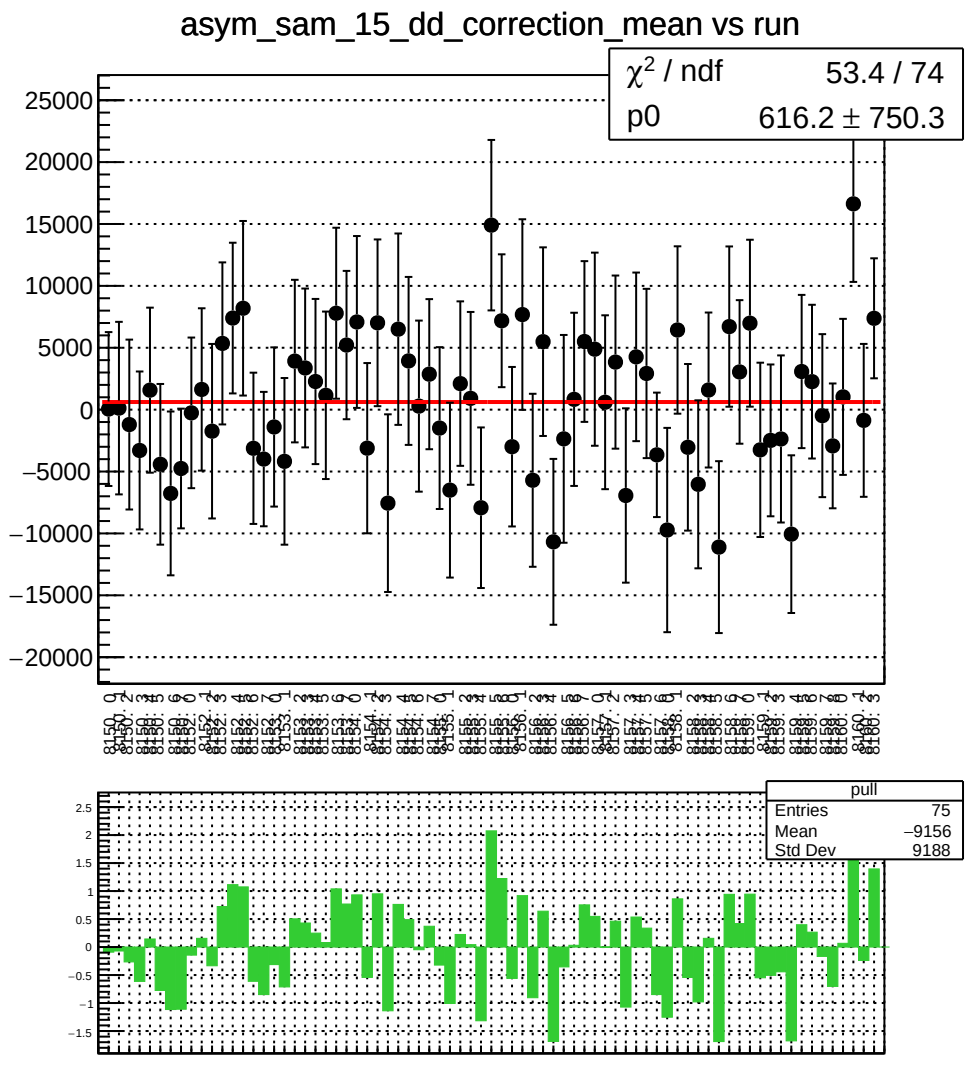

pull1D
Entries 75
Mean 0.001744
Std Dev 1.135

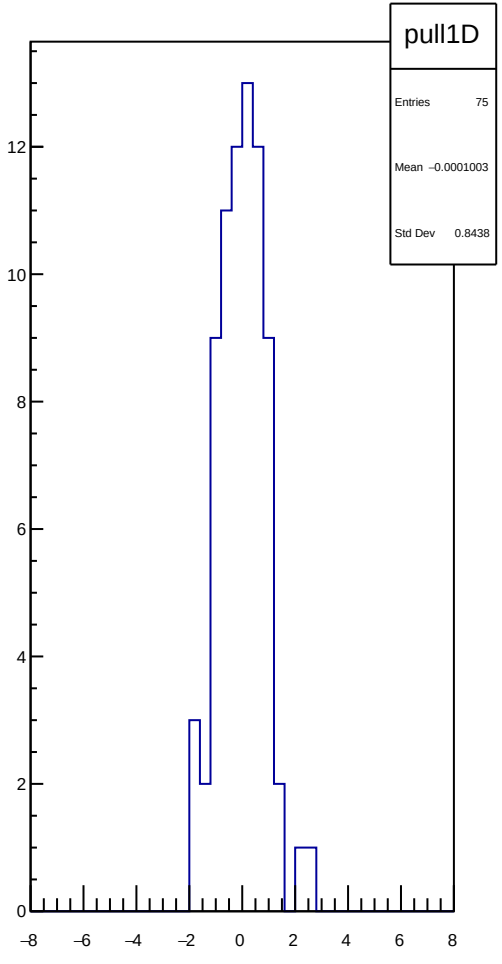

asym_sam_48_avg_rms vs run
χ^2 / ndf 829.9 / 74
p0 1977 ± 1.645
2100
2050
2000
1950
1900
1850

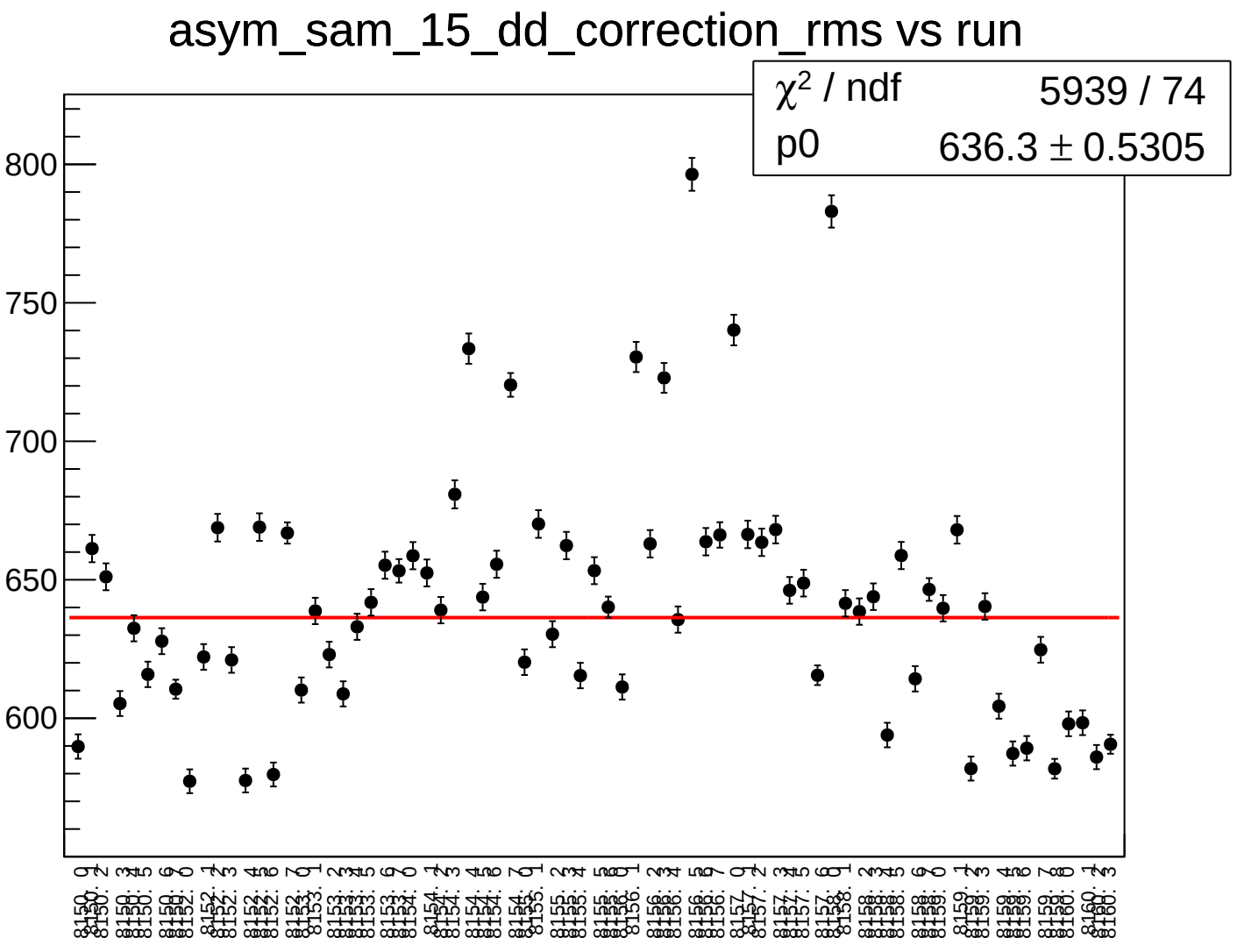

reg_asym_sam_15_dd_mean vs run
χ² / ndf 67.37 / 74
p0 −100.3 ± 99.6
pull
Entries 75
Mean 151.2
Std Dev 51.5

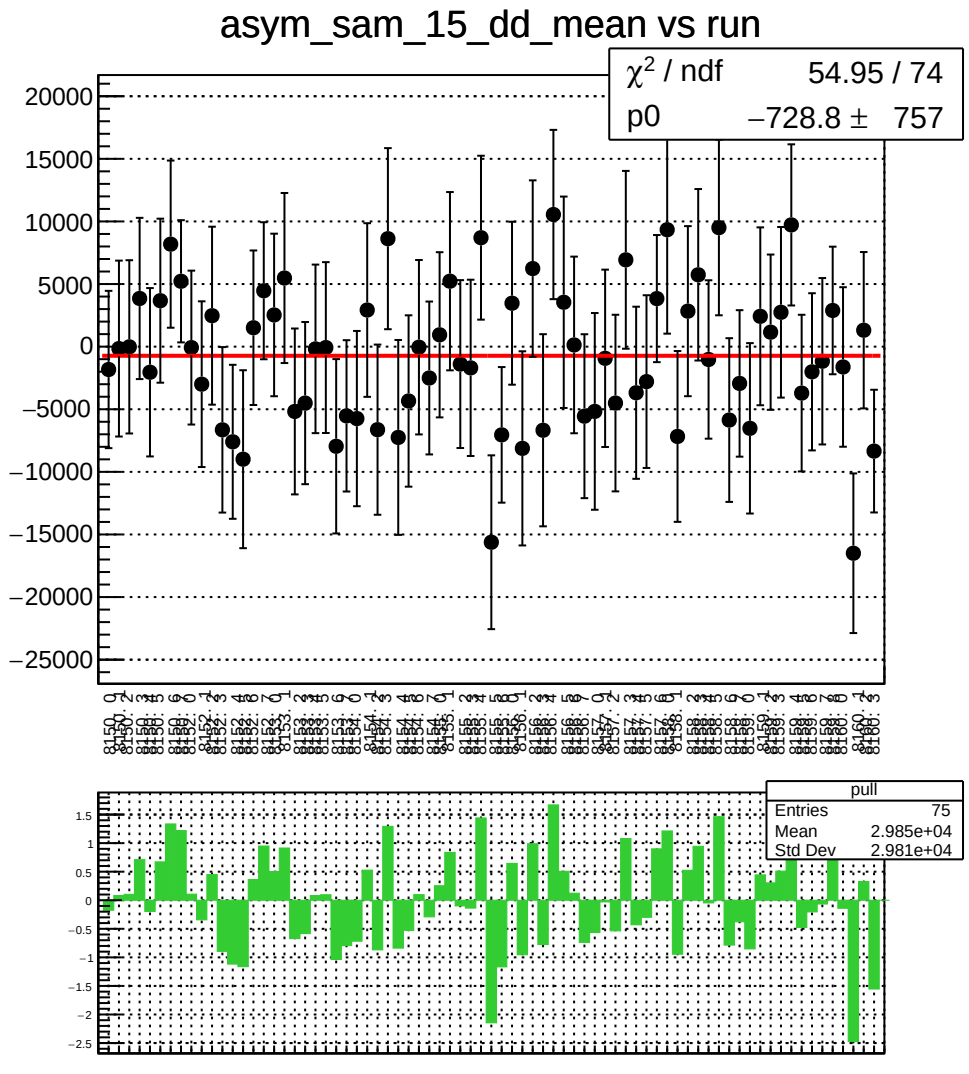

pull1D
Entries 75
Mean −0.008656
Std Dev 0.9477

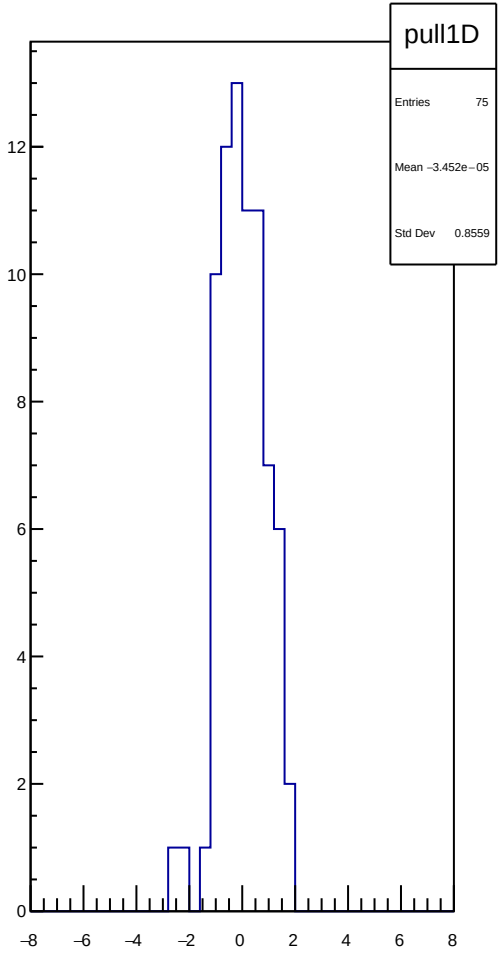

reg_asym_sam_15_dd_rms vs run
χ² / ndf 477.4 / 74
p0 84.63 ± 0.07043
89
88
87
86
85
84
83
82
81

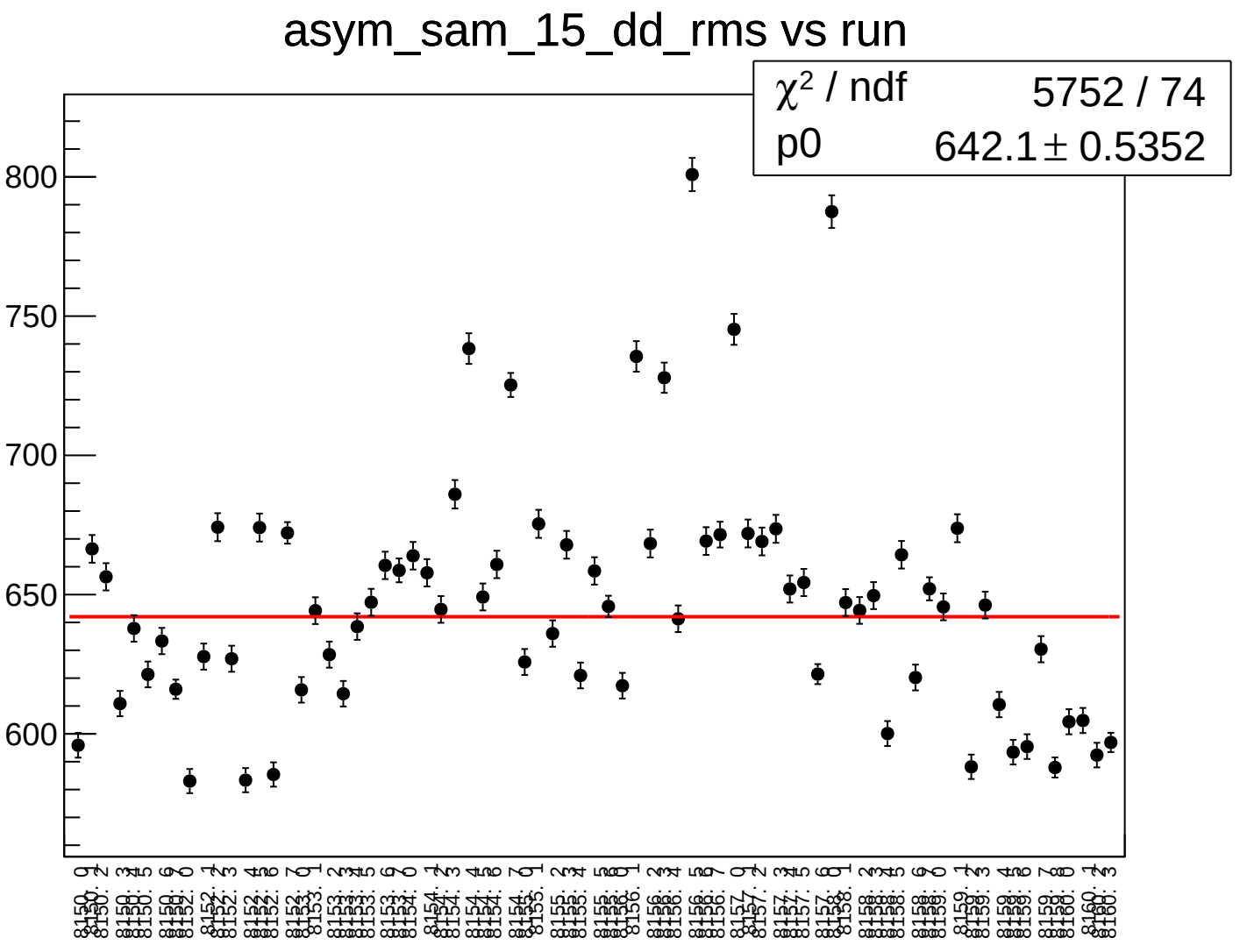

asym_sam_15_dd_correction_mean vs run
χ² / ndf 53.4 / 74
p0 616.2 ± 750.3
pull
Entries 75
Mean −9156
Std Dev 9188

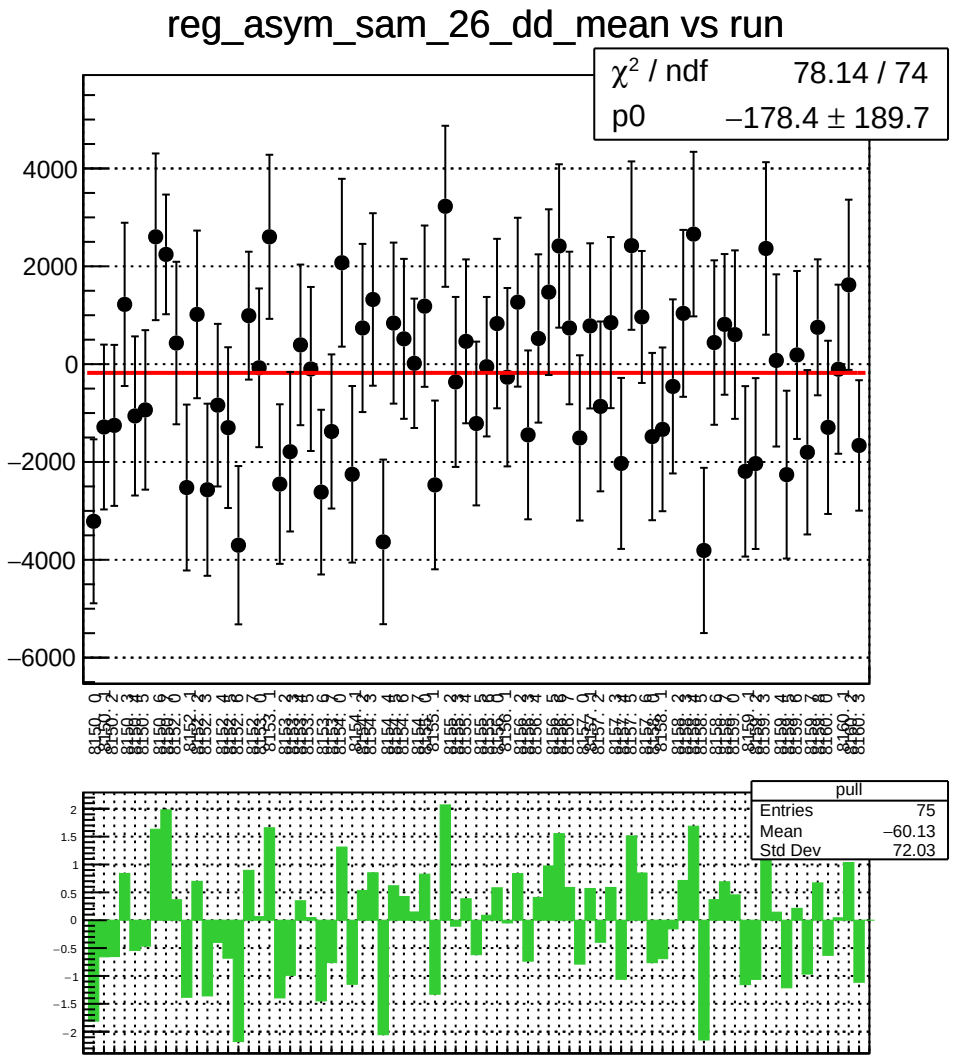

pull1D
Entries 75
Mean −0.0001003
Std Dev 0.8438

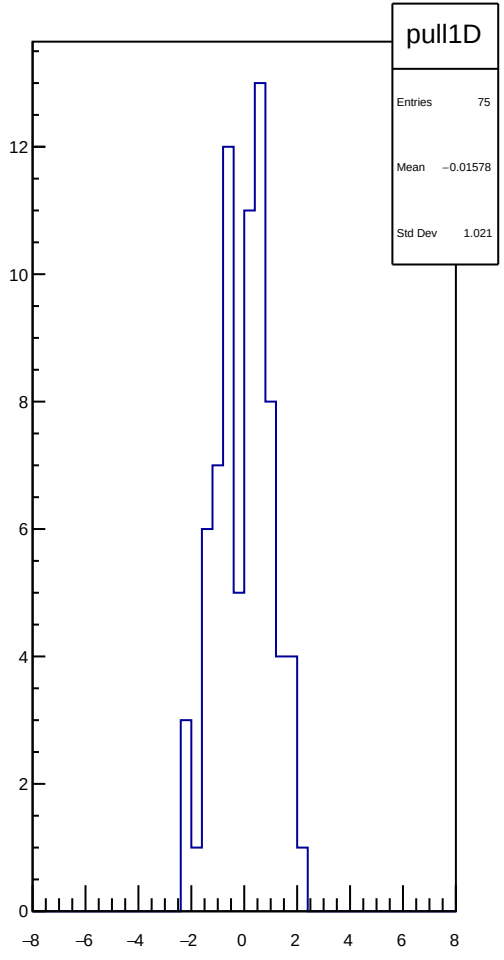

asym_sam_15_dd_correction_rms vs run
χ² / ndf 5939 / 74
p0 636.3 ± 0.5305
800
750
700
650
600

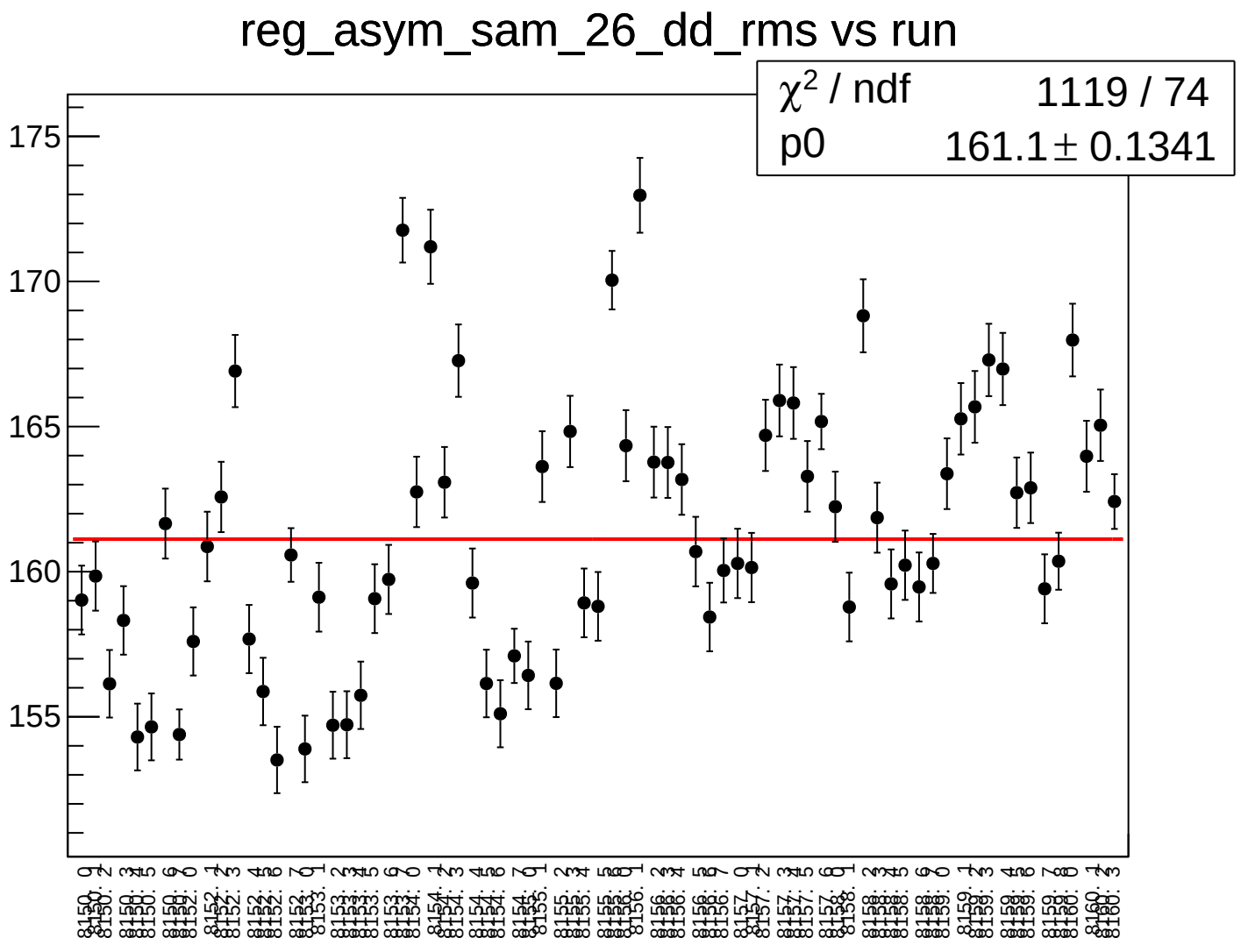

asym_sam_15_dd_mean vs run
χ² / ndf 54.95 / 74
p0 −728.8 ± 757
pull
Entries 75
Mean 2.985e+04
Std Dev 2.981e+04

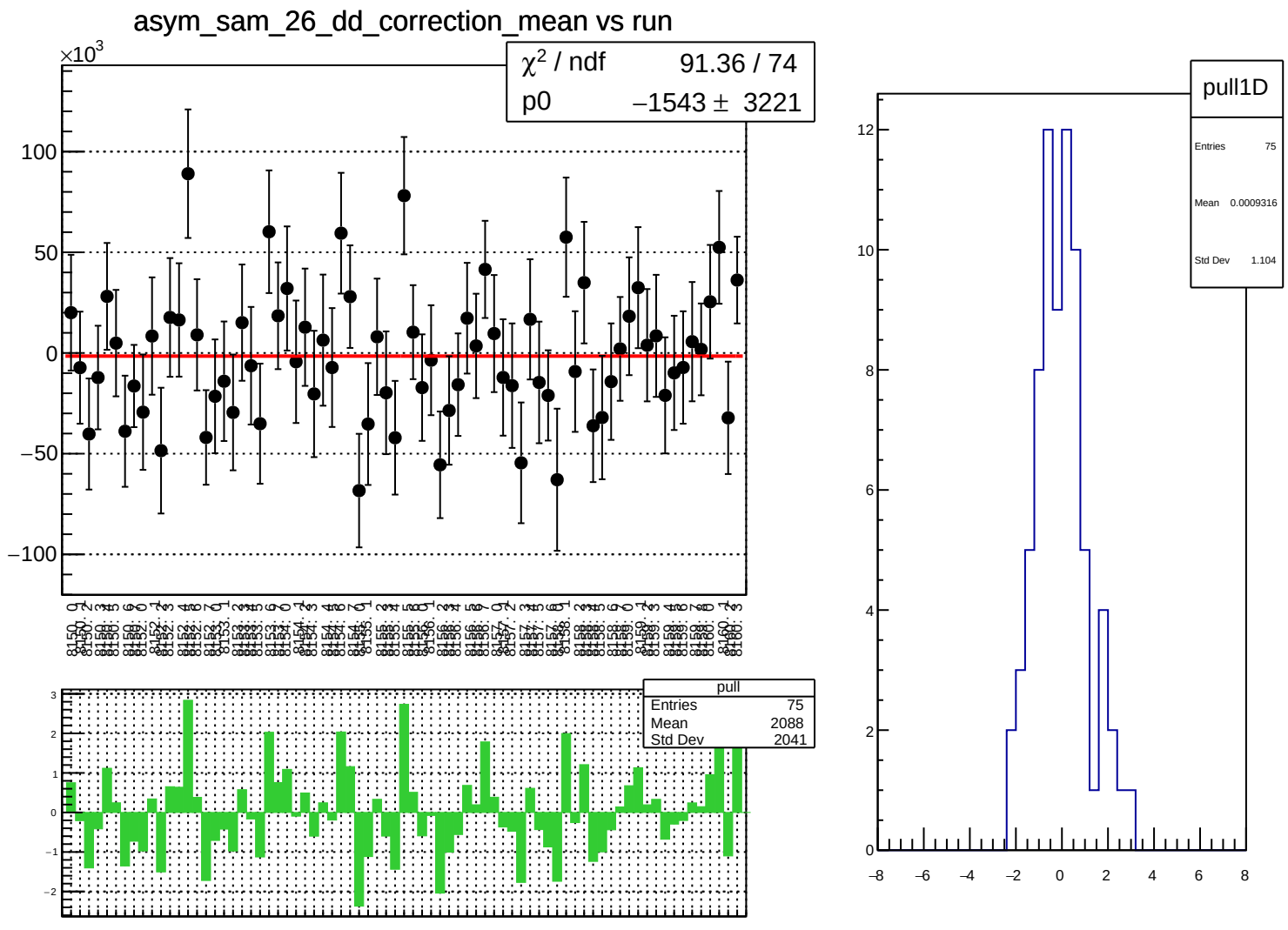

pull1D
Entries 75
Mean −3.452e−05
Std Dev 0.8559

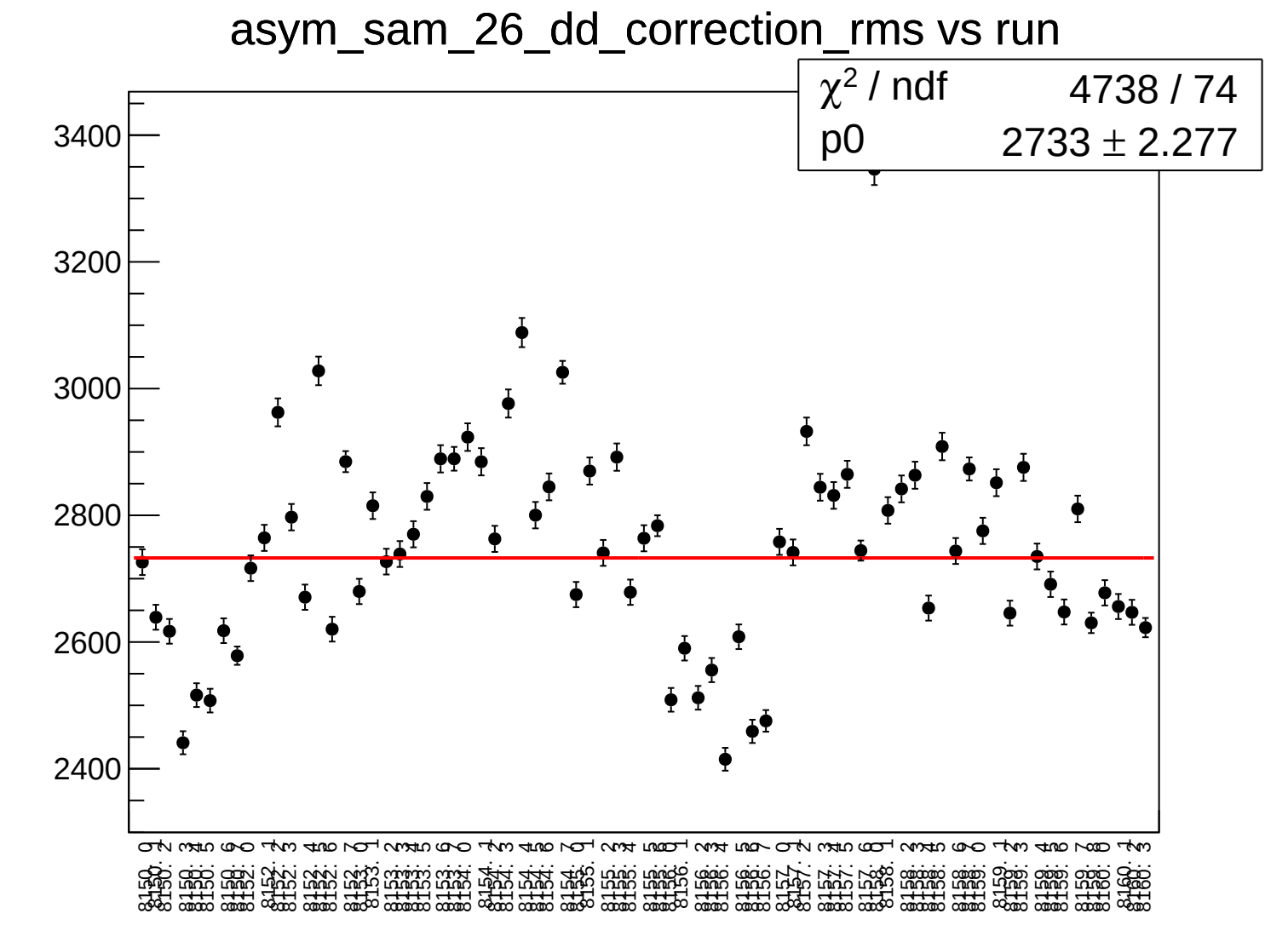

asym_sam_15_dd_rms vs run
χ² / ndf 5752 / 74
p0 642.1 ± 0.5352
800
750
700
650
600

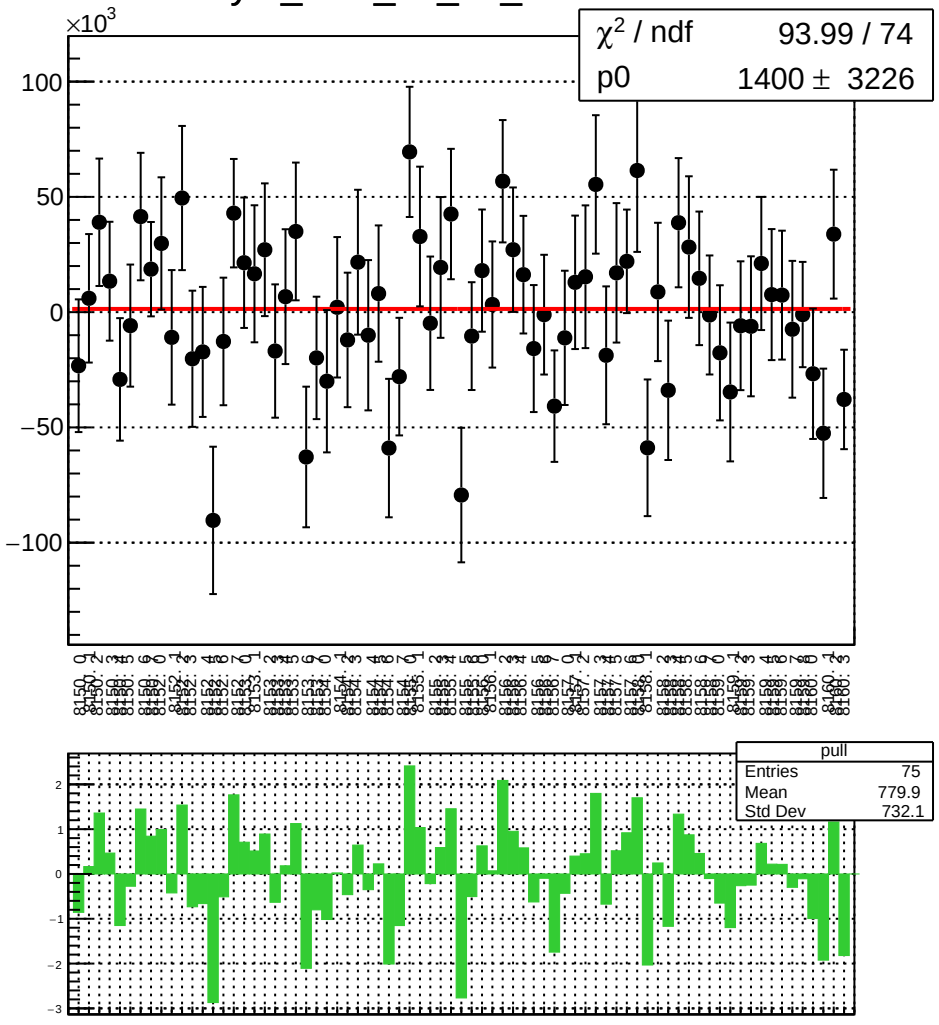

reg_asym_sam_26_dd_mean vs run
χ² / ndf 78.14 / 74
p0 −178.4 ± 189.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 75
Mean −60.13
Std Dev 72.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

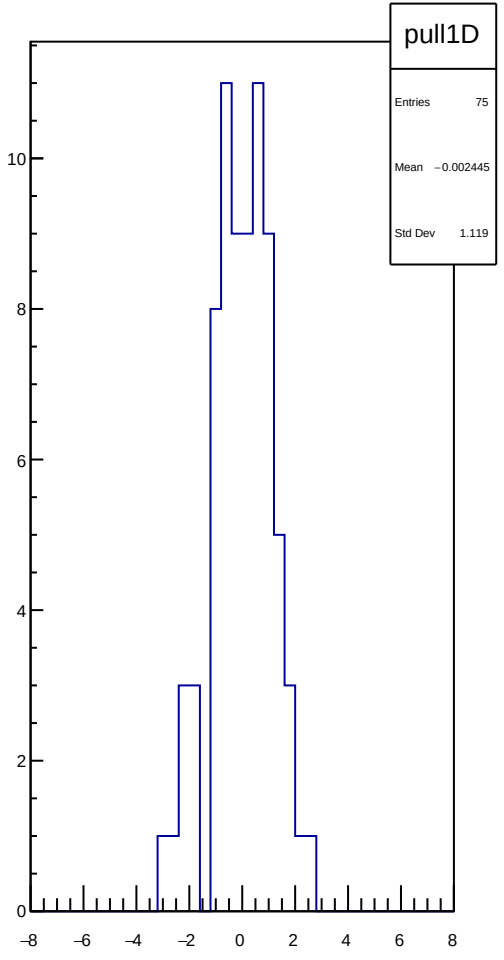

pull1D
Entries 75
Mean −0.01578
Std Dev 1.021
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

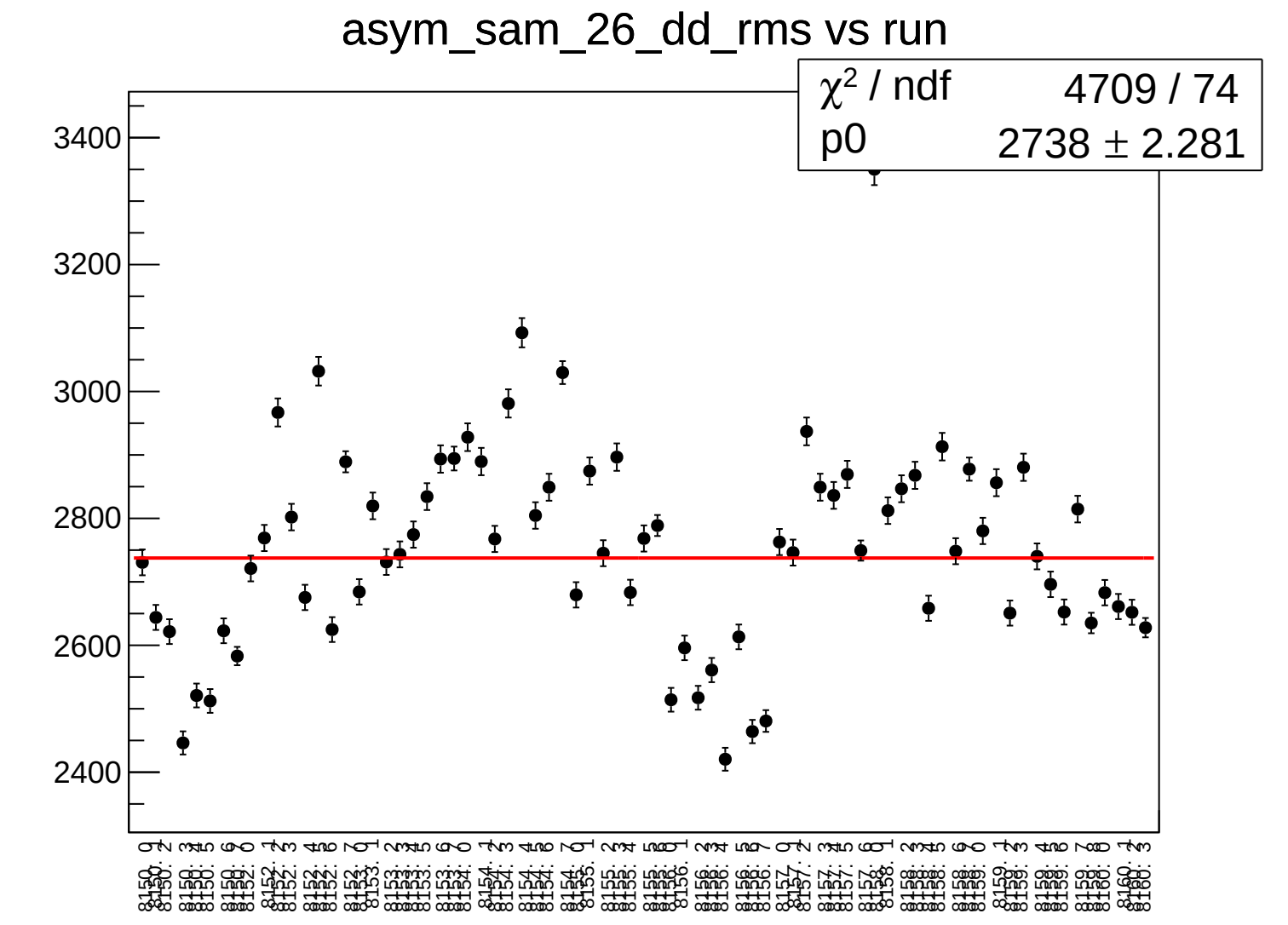

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1119 / 74
p0 161.1 ± 0.1341
175
170
165
160
155

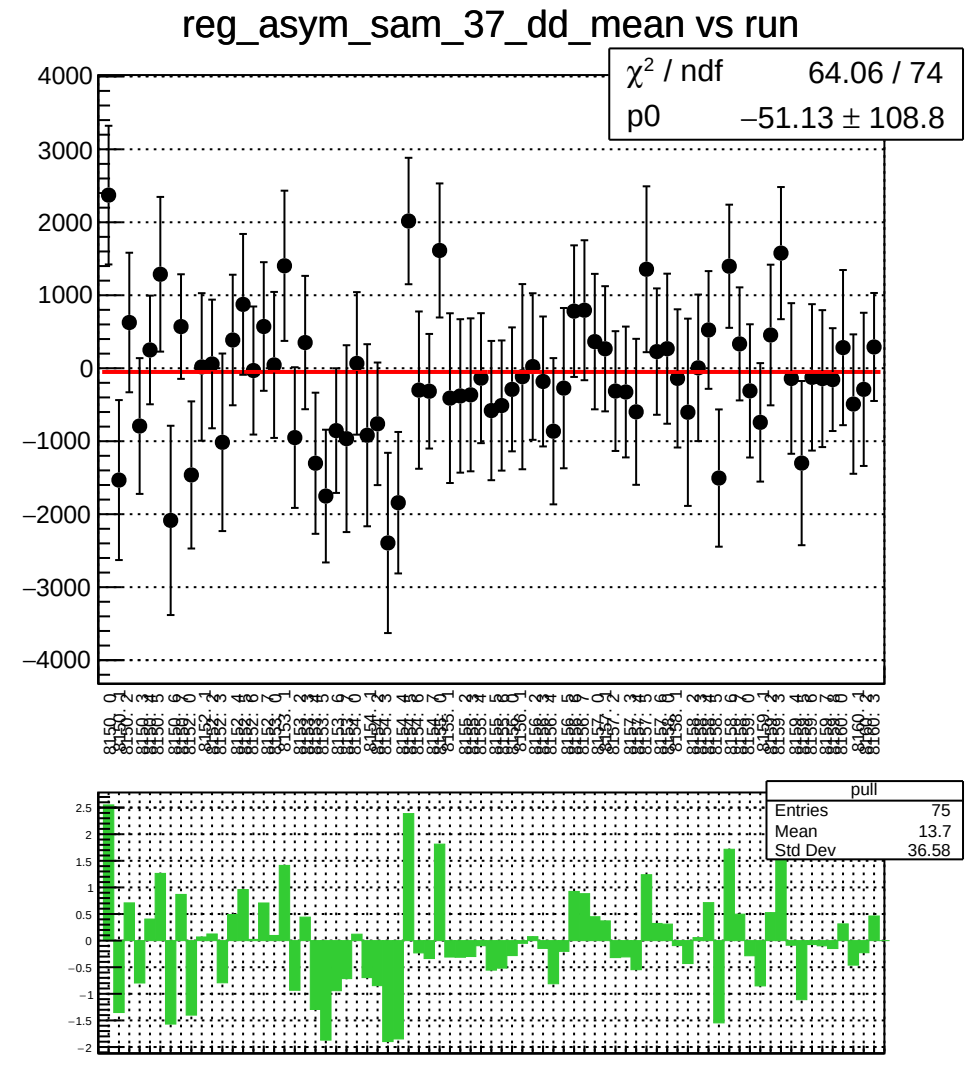

asym_sam_26_dd_correction_mean vs run
χ² / ndf 91.36 / 74
p0 −1543 ± 3221
×10³
100
50
0
−50
−100
pull
Entries 75
Mean 2088
Std Dev 2041
pull1D
Entries 75
Mean 0.0009316
Std Dev 1.104
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

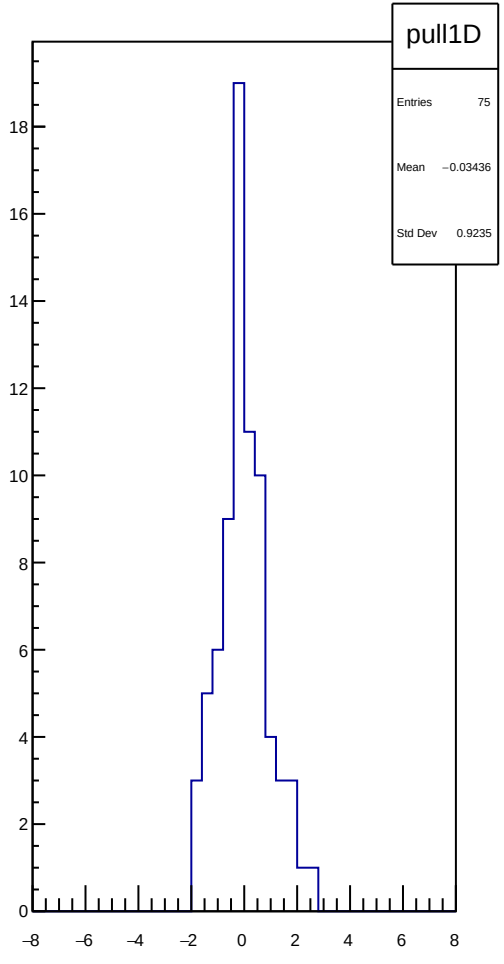

asym_sam_26_dd_correction_rms vs run
χ^2 / ndf 4738 / 74
p0 2733 ± 2.277
3400
3200
3000
2800
2600
2400

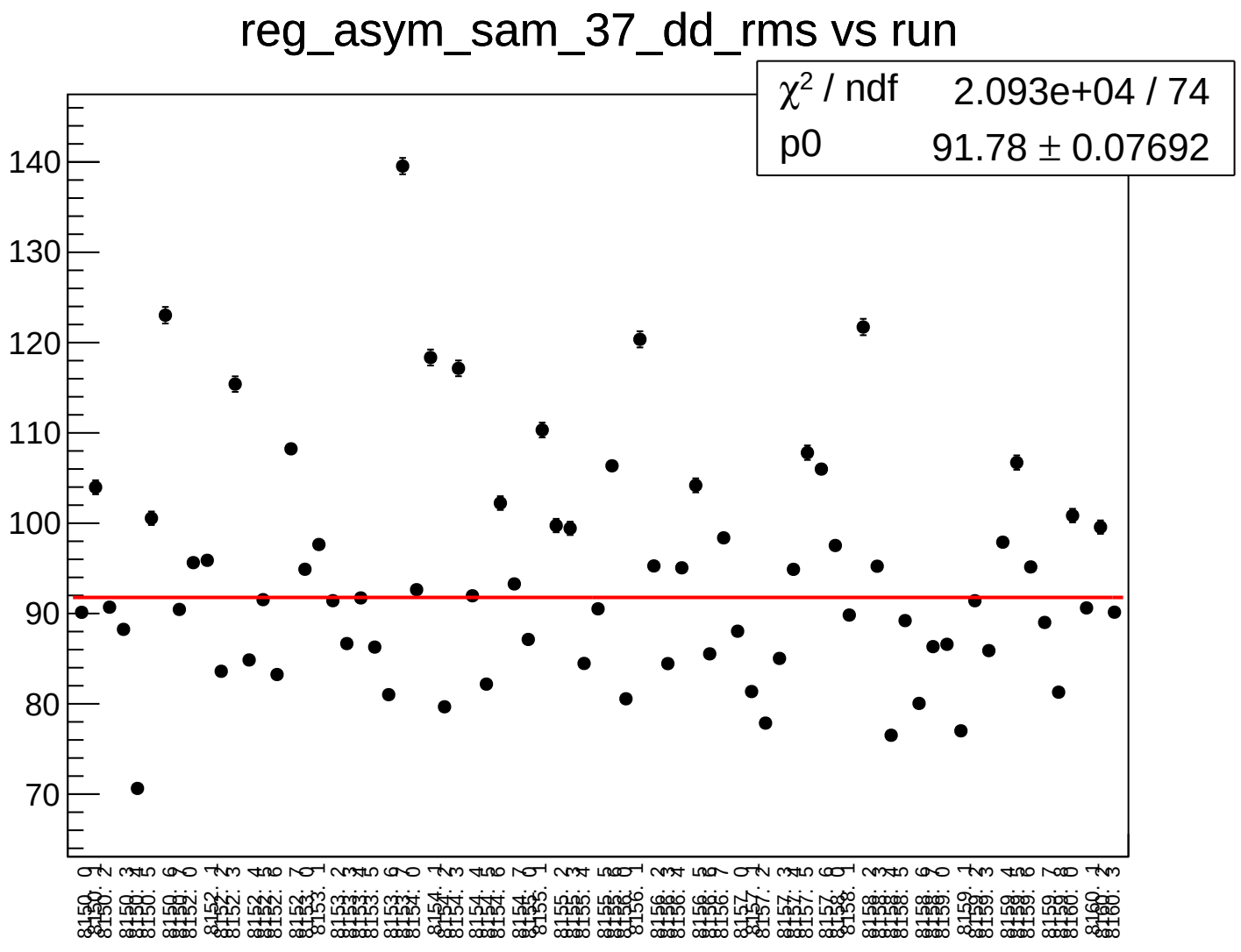

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 93.99 / 74
p0 1400 ± 3226
100
50
0
−50
−100
pull
Entries 75
Mean 779.9
Std Dev 732.1
2
1
0
−1
−2
−3

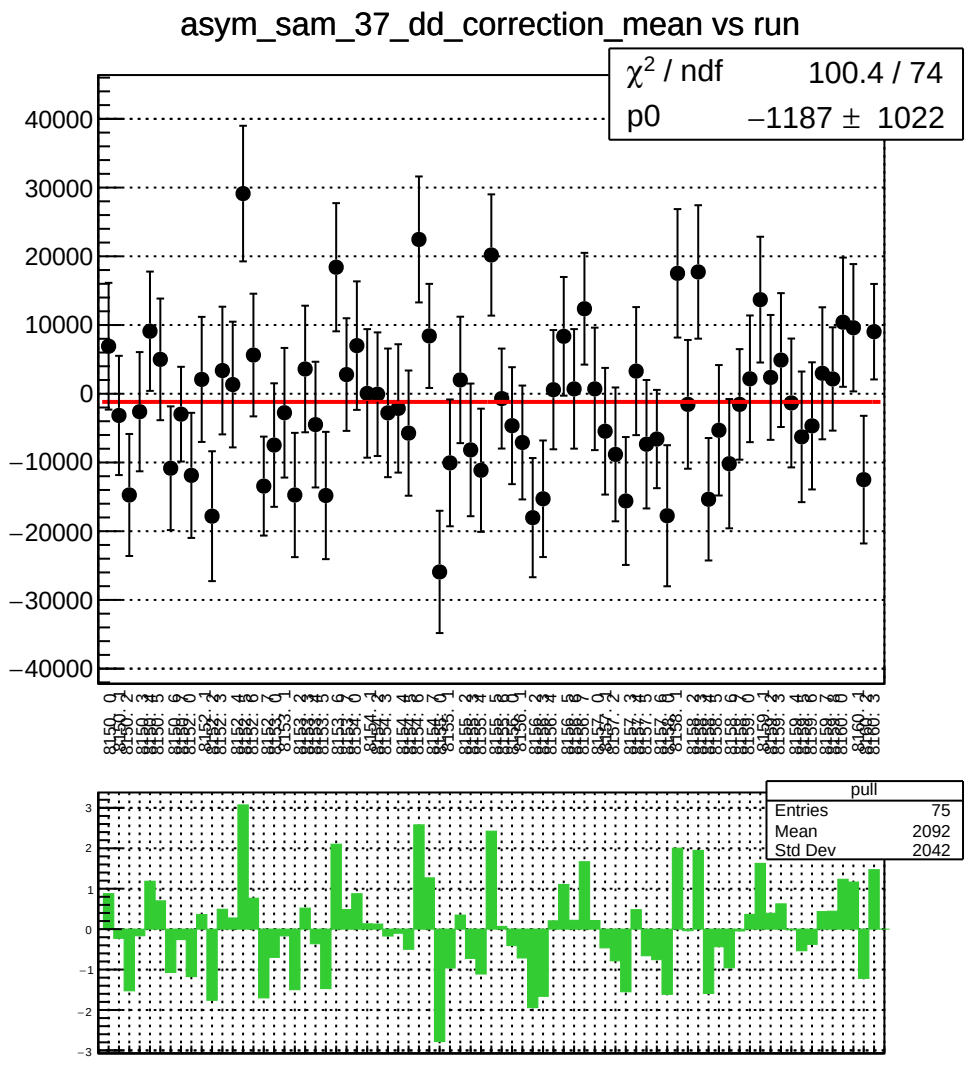

pull1D
Entries 75
Mean −0.002445
Std Dev 1.119
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

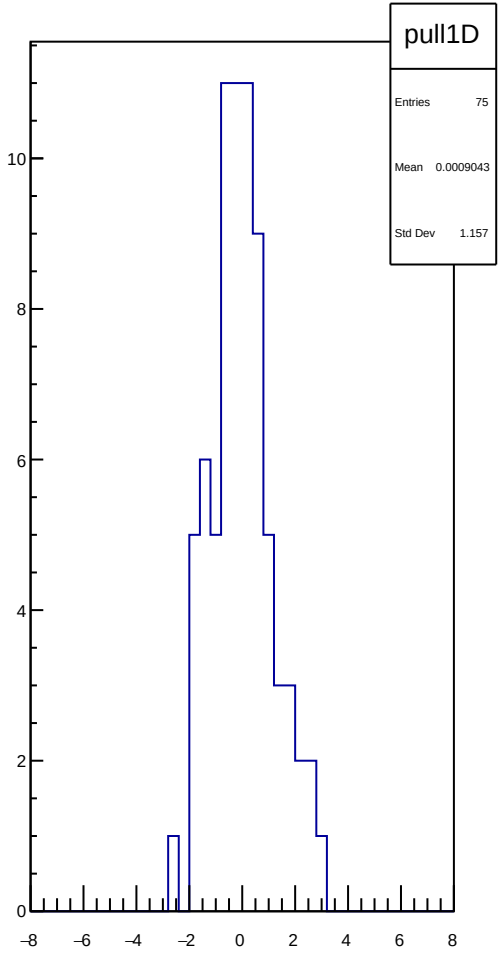

asym_sam_26_dd_rms vs run
χ^2 / ndf 4709 / 74
p0 2738 ± 2.281
3400
3200
3000
2800
2600
2400

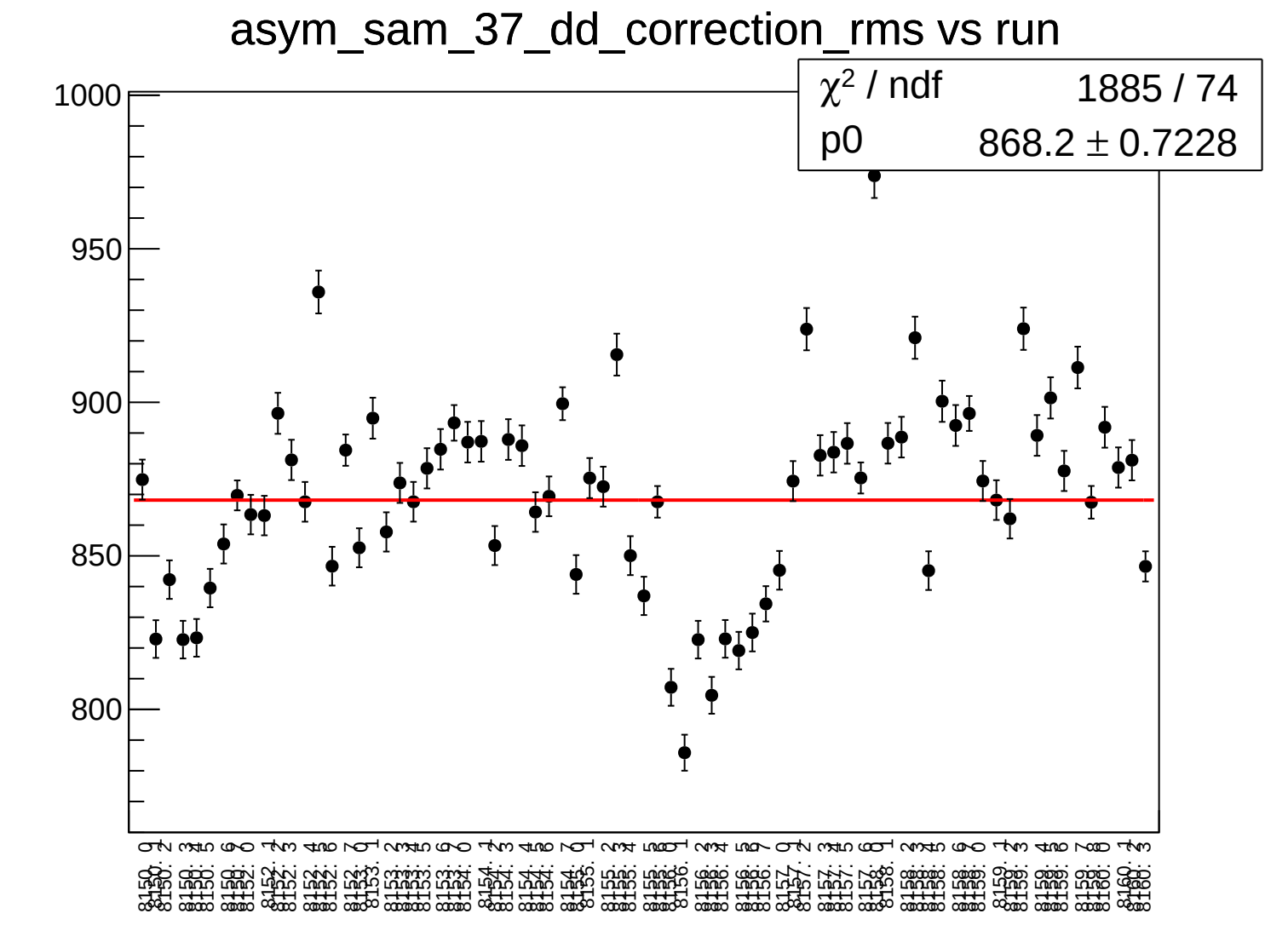

reg_asym_sam_37_dd_mean vs run
χ² / ndf 64.06 / 74
p0 −51.13 ± 108.8
pull
Entries 75
Mean 13.7
Std Dev 36.58

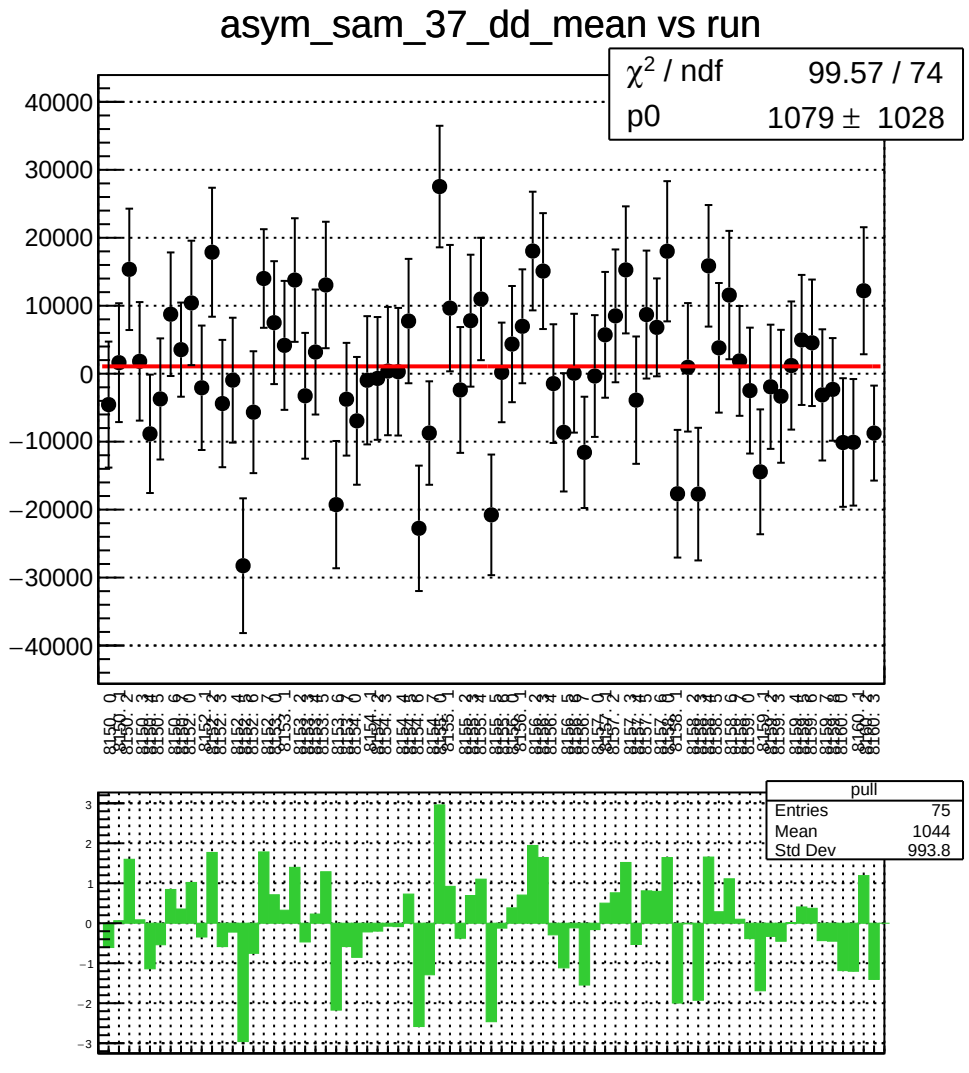

pull1D
Entries 75
Mean −0.03436
Std Dev 0.9235

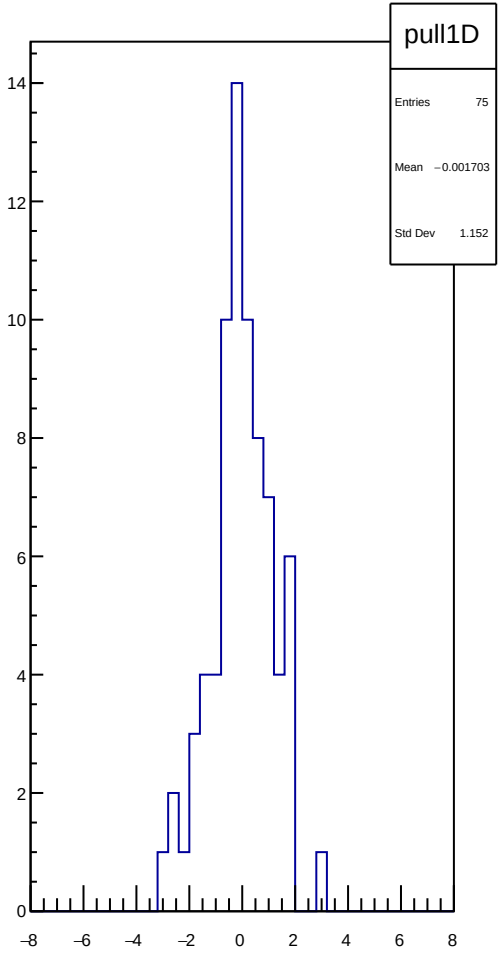

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 2.093e+04 / 74
p0 91.78 ± 0.07692
140
130
120
110
100
90
80
70

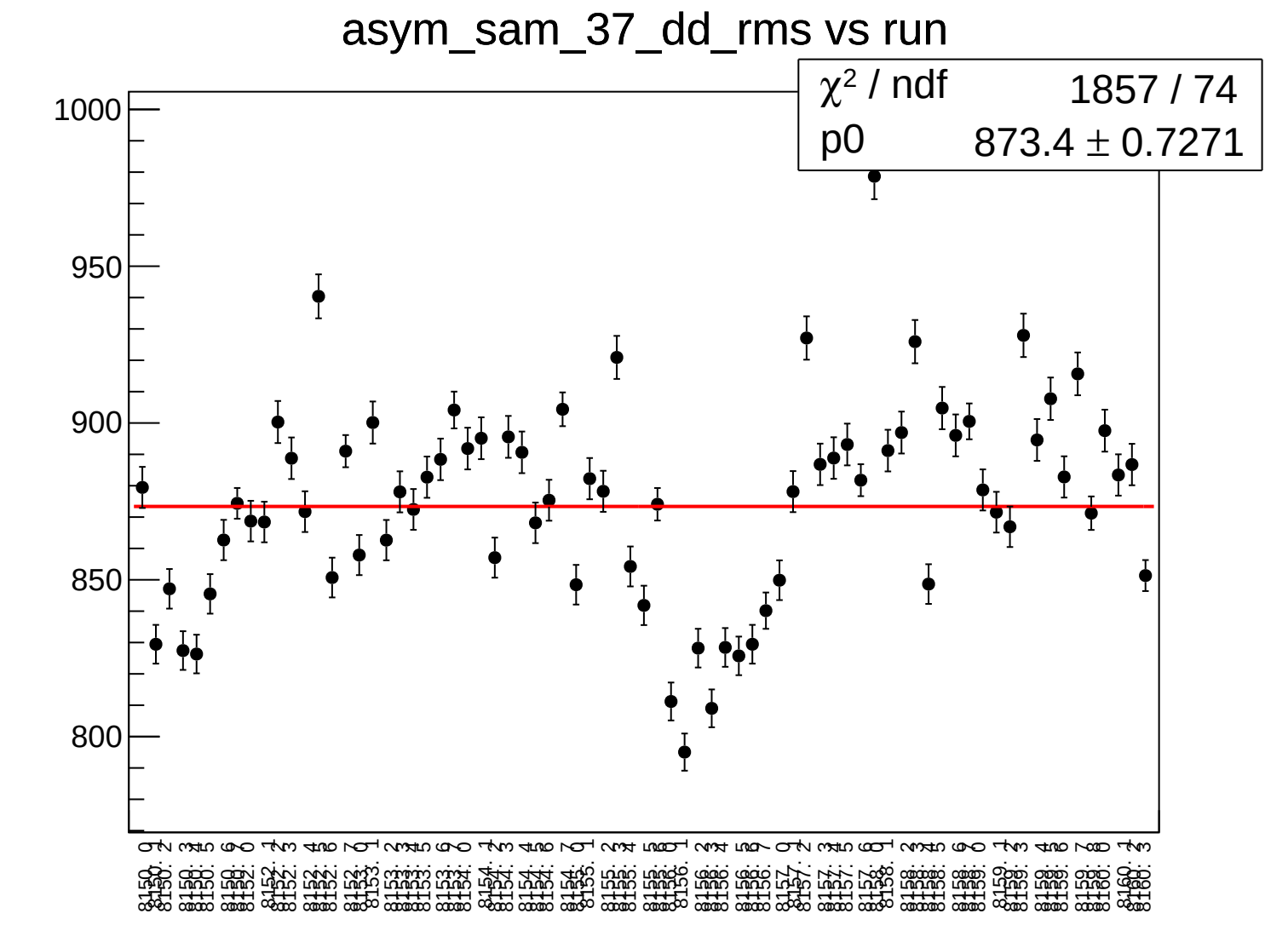

asym_sam_37_dd_correction_mean vs run
χ² / ndf 100.4 / 74
p0 −1187 ± 1022
pull
Entries 75
Mean 2092
Std Dev 2042

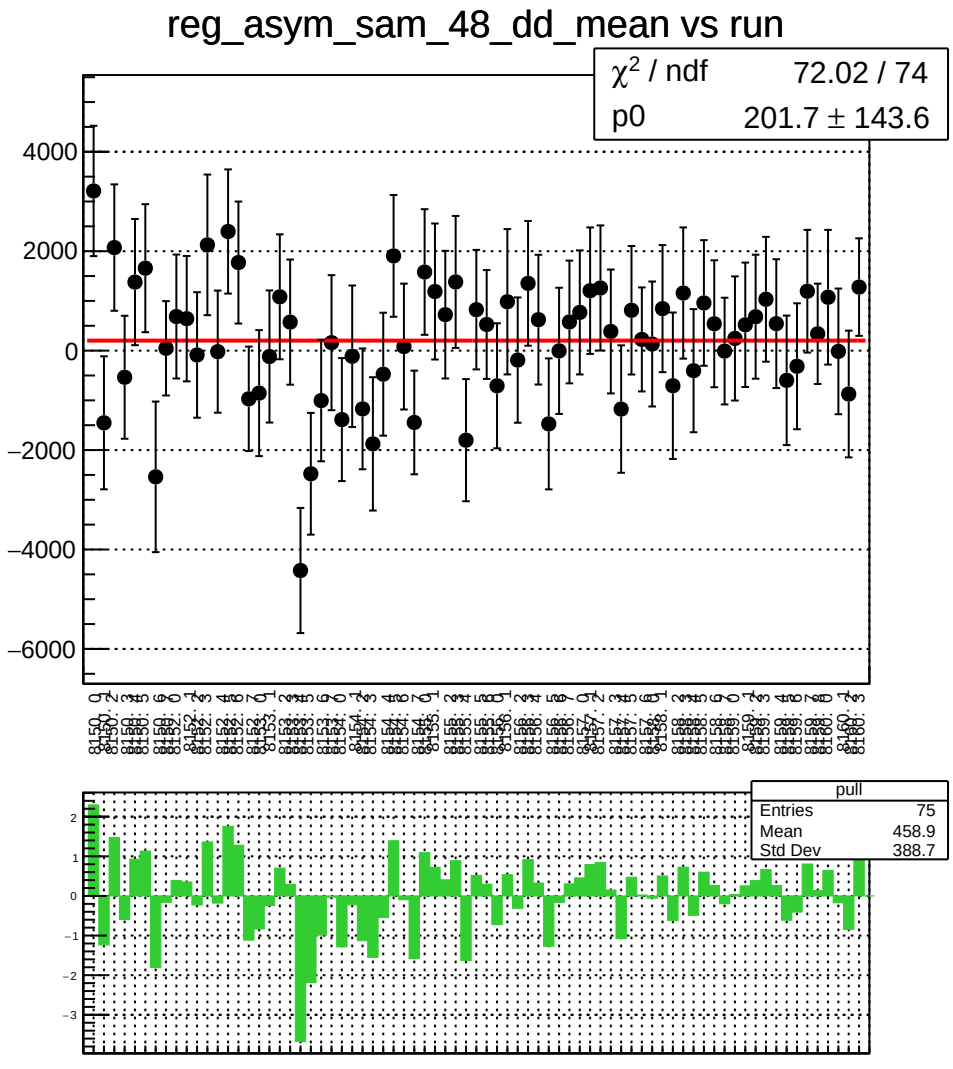

pull1D
Entries 75
Mean 0.0009043
Std Dev 1.157

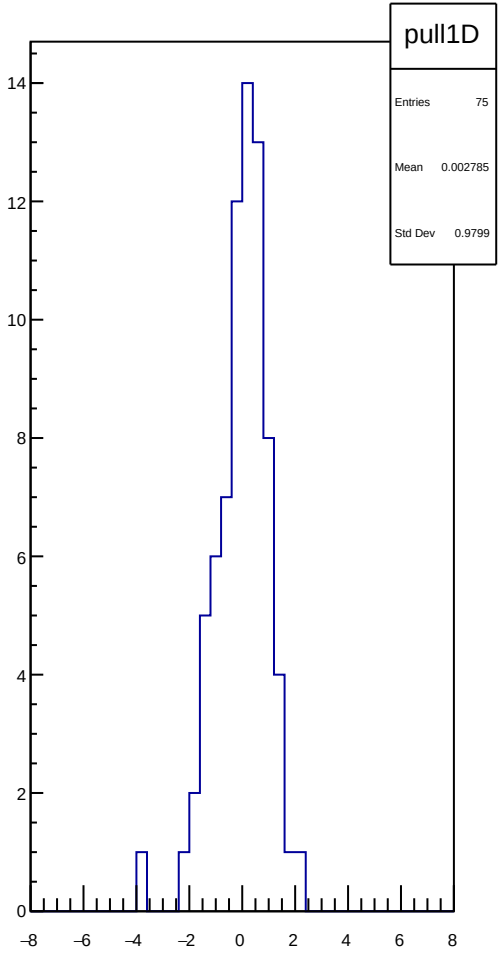

asym_sam_37_dd_correction_rms vs run
χ² / ndf 1885 / 74
p0 868.2 ± 0.7228
1000
950
900
850
800

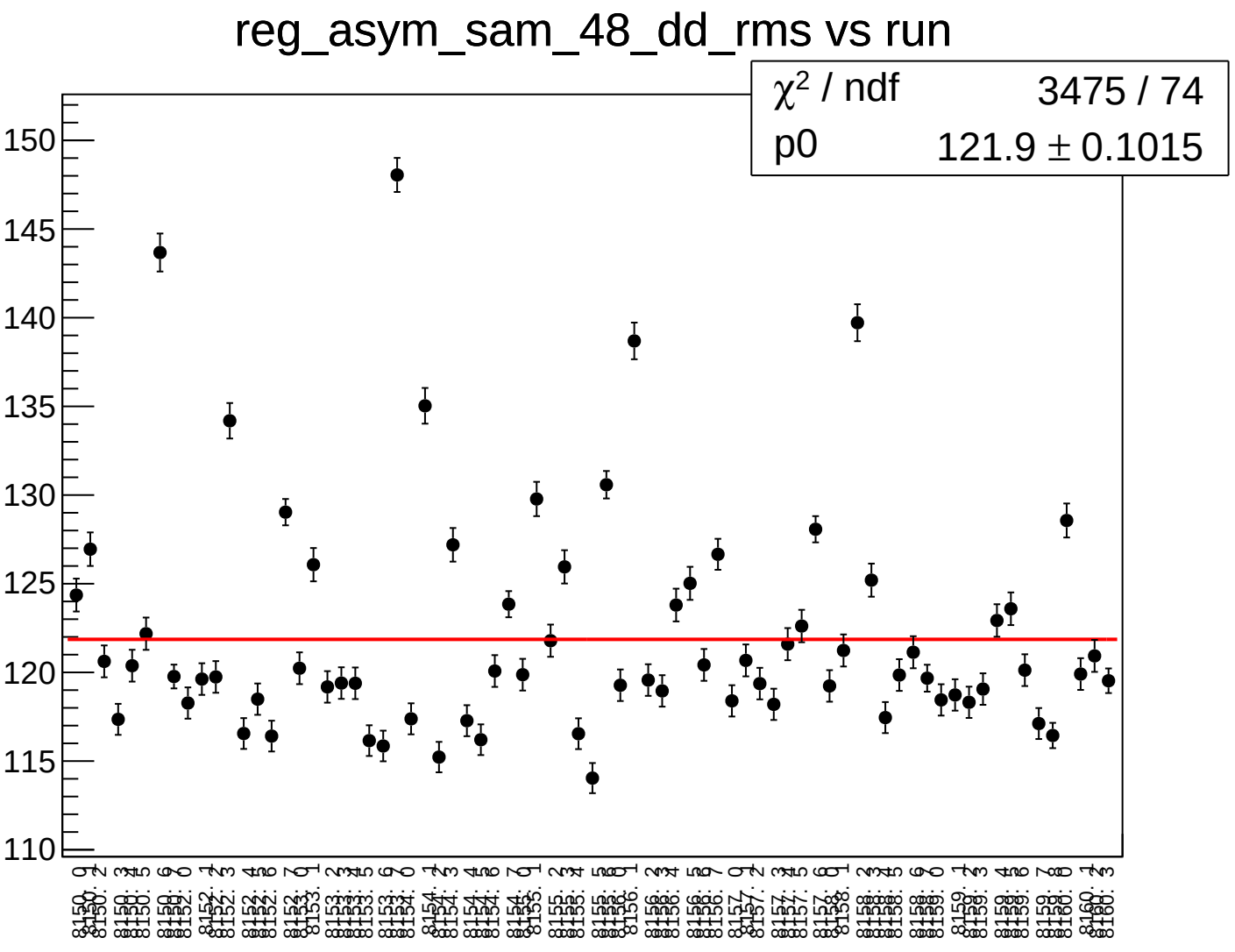

asym_sam_37_dd_mean vs run
χ² / ndf 99.57 / 74
p0 1079 ± 1028
pull
Entries 75
Mean 1044
Std Dev 993.8

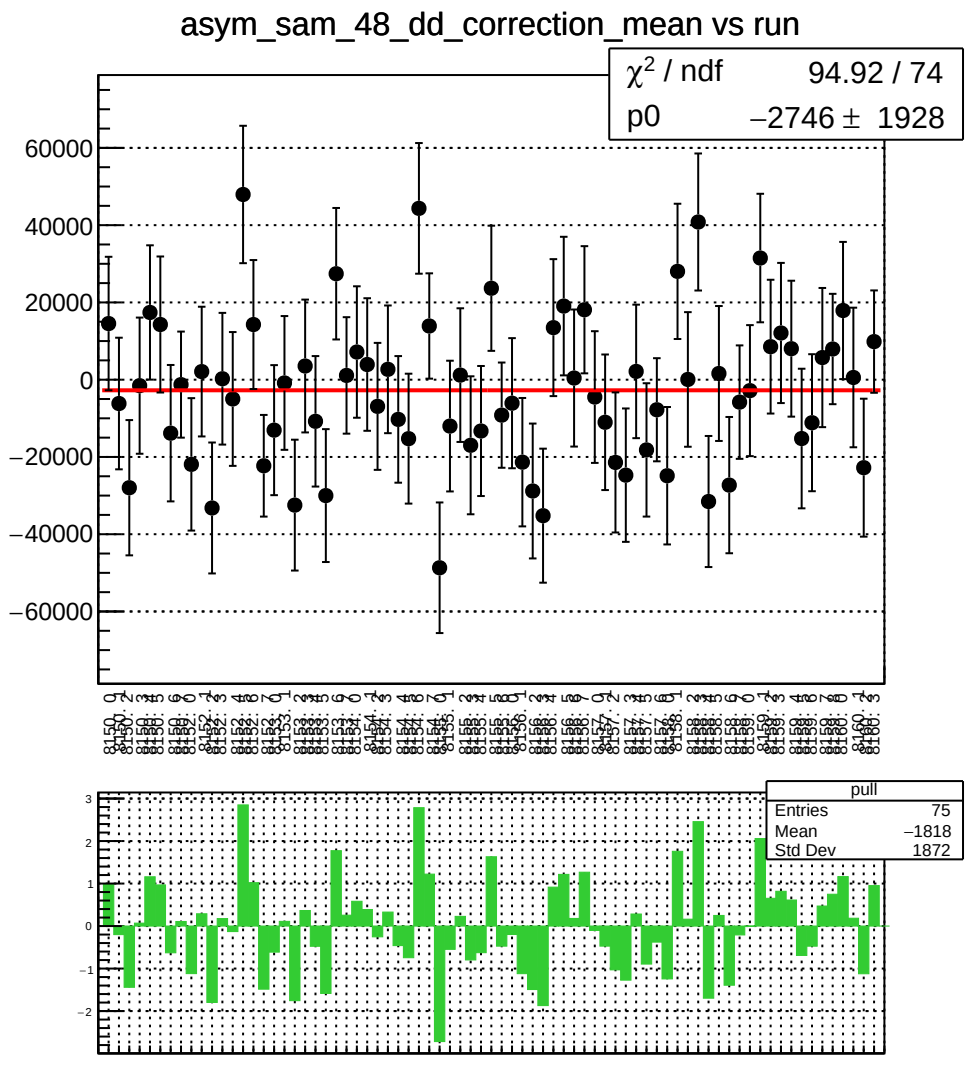

pull1D
Entries 75
Mean −0.001703
Std Dev 1.152

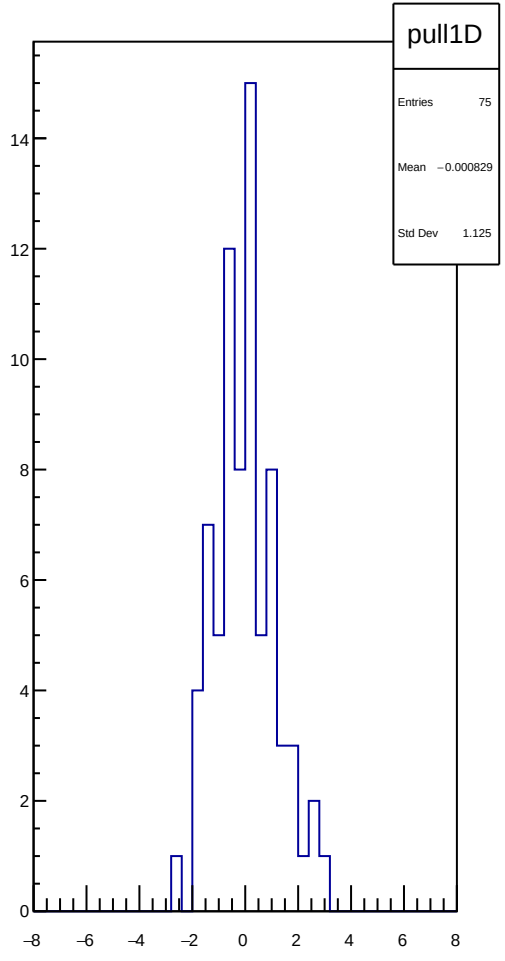

asym_sam_37_dd_rms vs run
χ² / ndf 1857 / 74
p0 873.4 ± 0.7271
1000
950
900
850
800

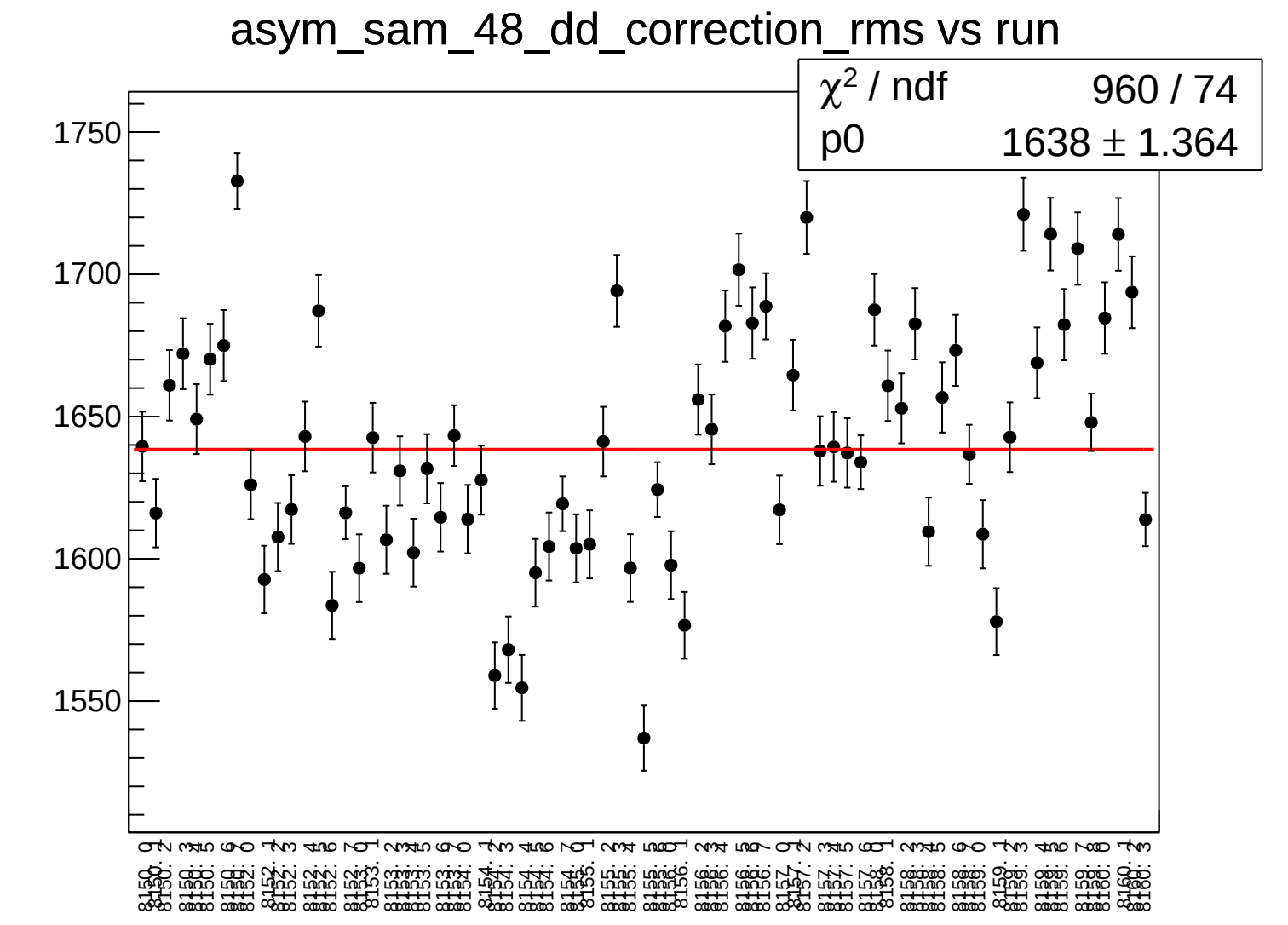

reg_asym_sam_48_dd_mean vs run
χ² / ndf 72.02 / 74
p0 201.7 ± 143.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 75
Mean 458.9
Std Dev 388.7
2
1
0
−1
−2
−3

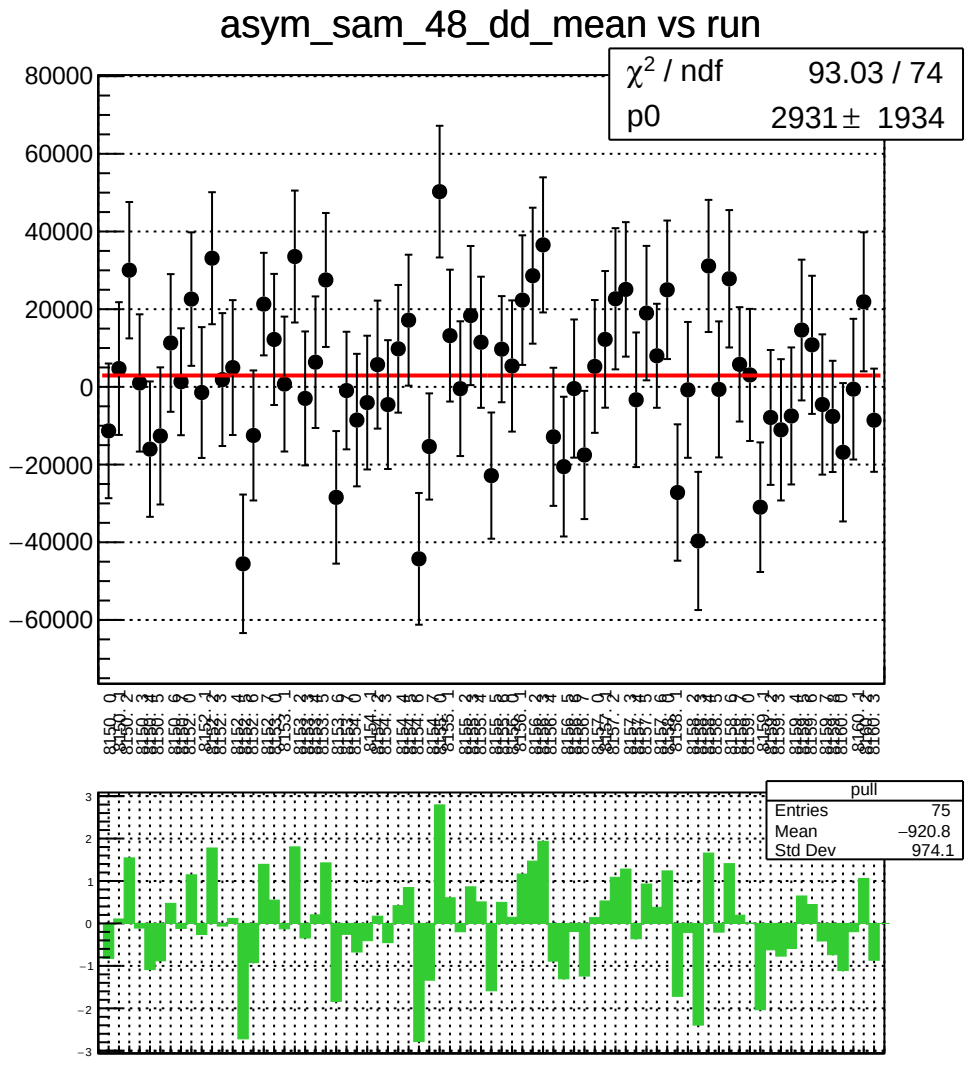

pull1D
Entries 75
Mean 0.002785
Std Dev 0.9799
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

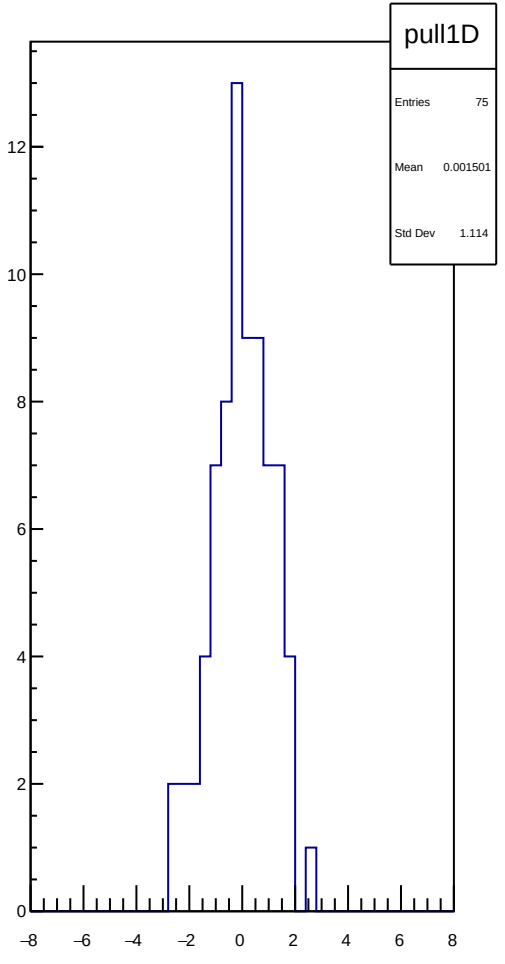

reg_asym_sam_48_dd_rms vs run
χ² / ndf 3475 / 74
p0 121.9 ± 0.1015
150
145
140
135
130
125
120
115
110

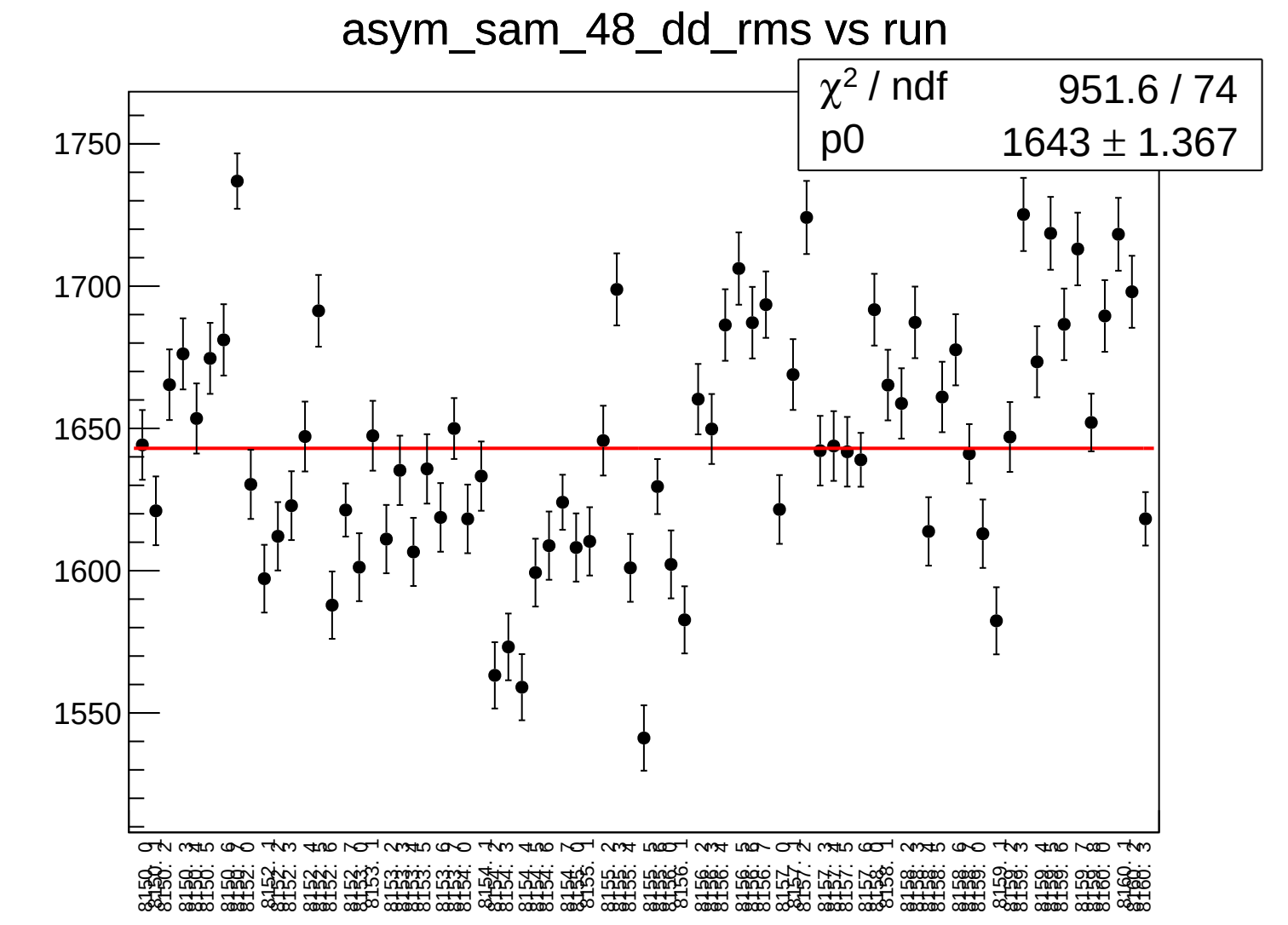

asym_sam_48_dd_correction_mean vs run
χ² / ndf 94.92 / 74
p0 −2746 ± 1928
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 75
Mean −1818
Std Dev 1872
3
2
1
0
−1
−2

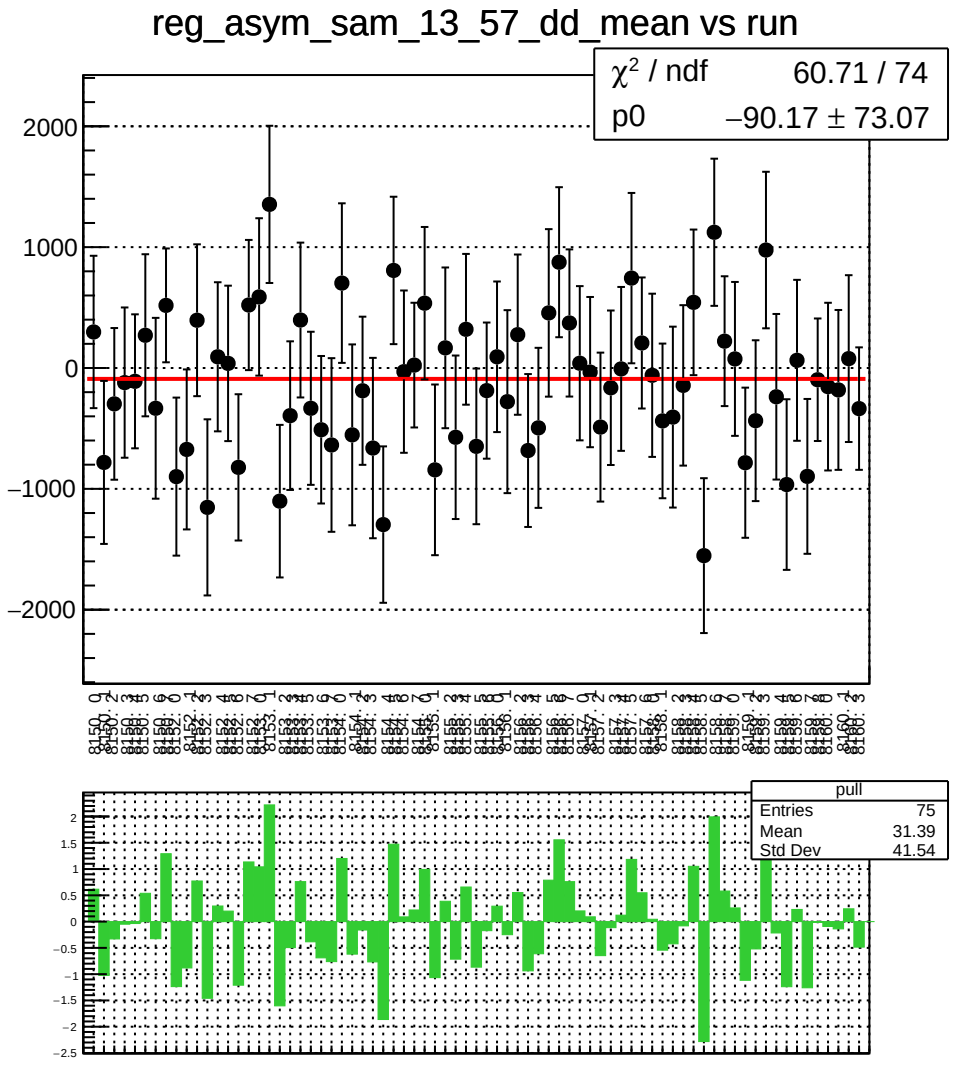

pull1D
Entries 75
Mean −0.000829
Std Dev 1.125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

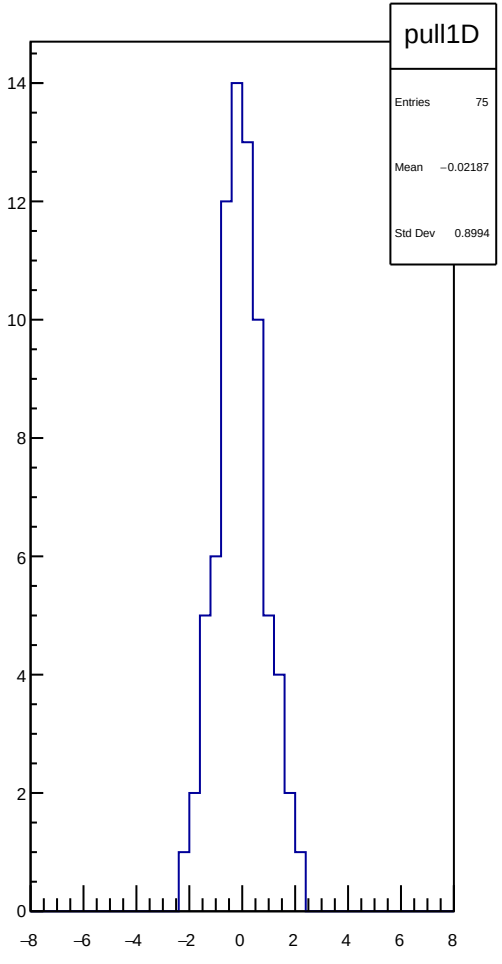

asym_sam_48_dd_correction_rms vs run
χ^2 / ndf 960 / 74
p0 1638 ± 1.364
1750
1700
1650
1600
1550

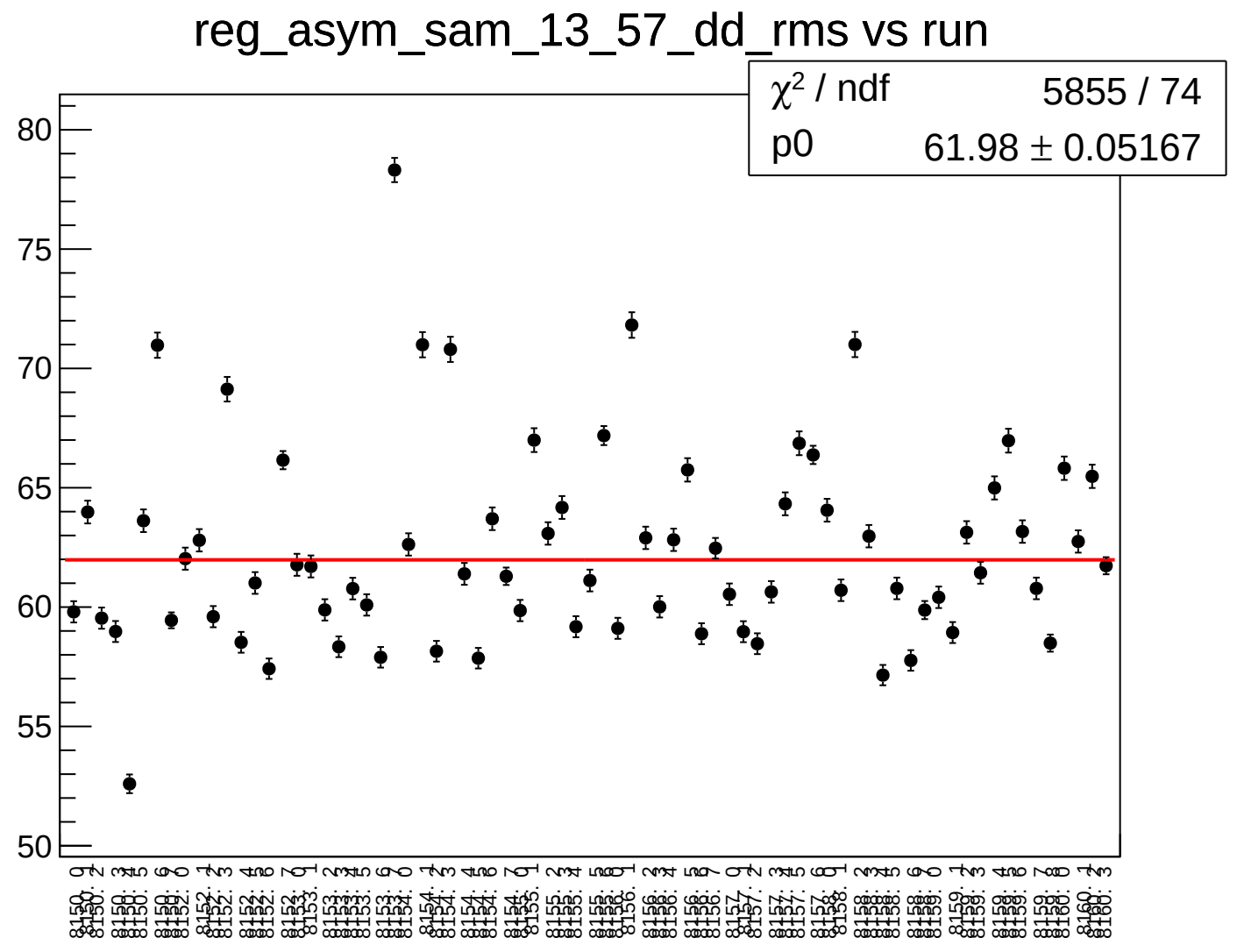

asym_sam_48_dd_mean vs run
χ² / ndf 93.03 / 74
p0 2931 ± 1934
pull
Entries 75
Mean −920.8
Std Dev 974.1

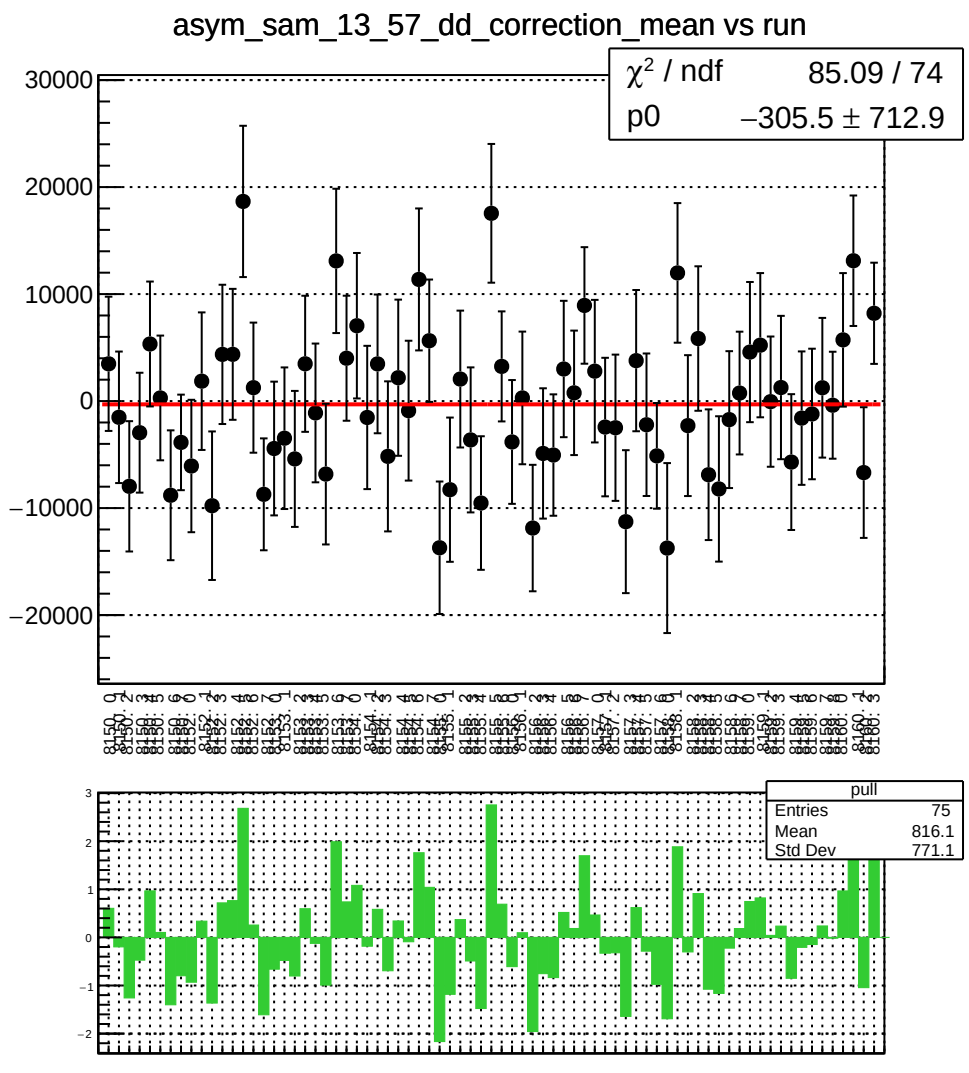

pull1D
Entries 75
Mean 0.001501
Std Dev 1.114

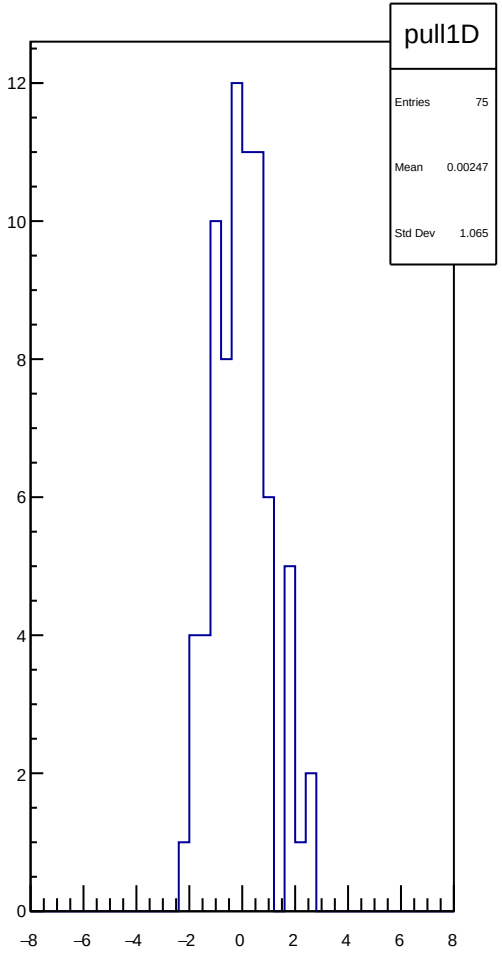

asym_sam_48_dd_rms vs run
χ² / ndf 951.6 / 74
p0 1643 ± 1.367
1750
1700
1650
1600
1550

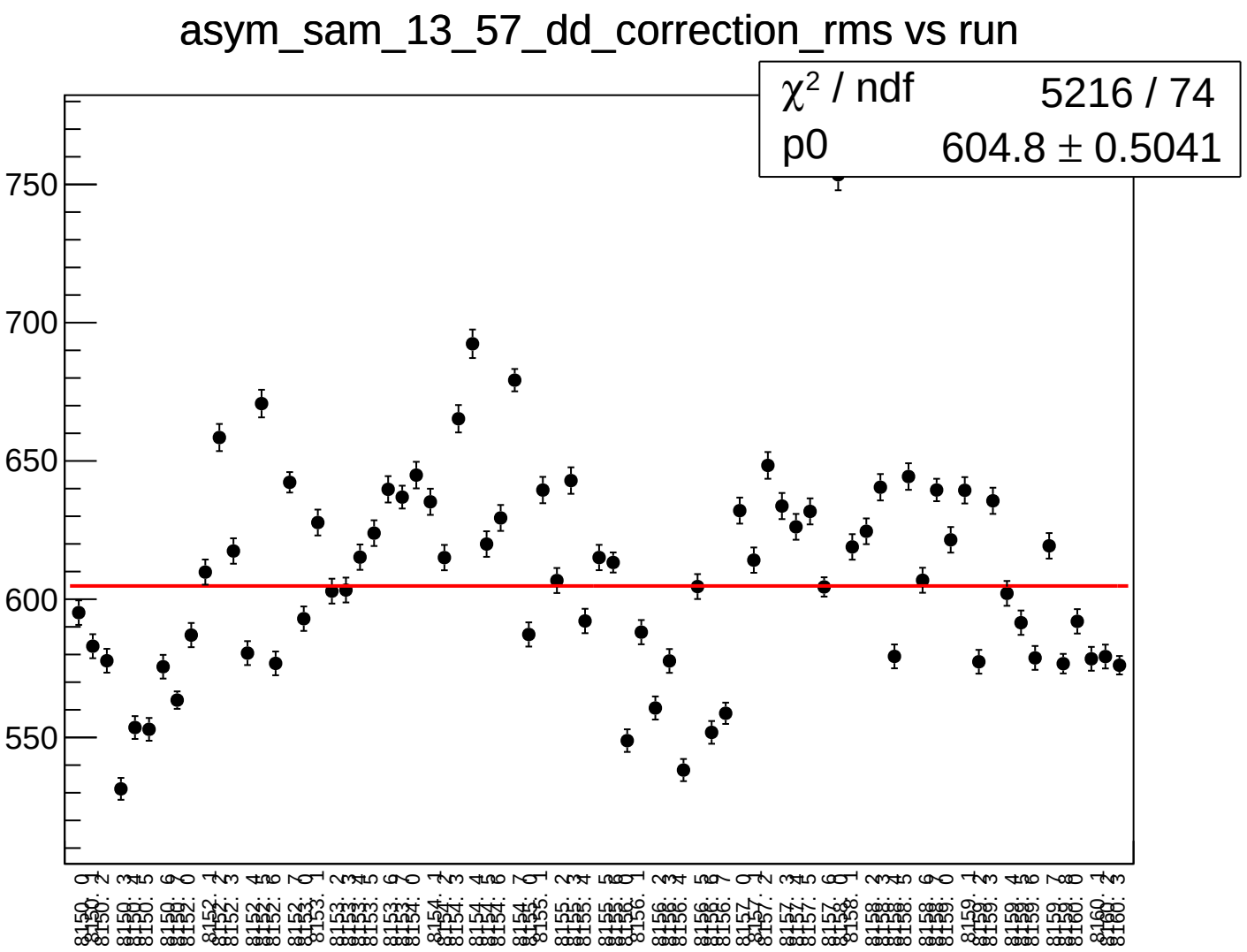

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 60.71 / 74
p0 −90.17 ± 73.07
pull
Entries 75
Mean 31.39
Std Dev 41.54

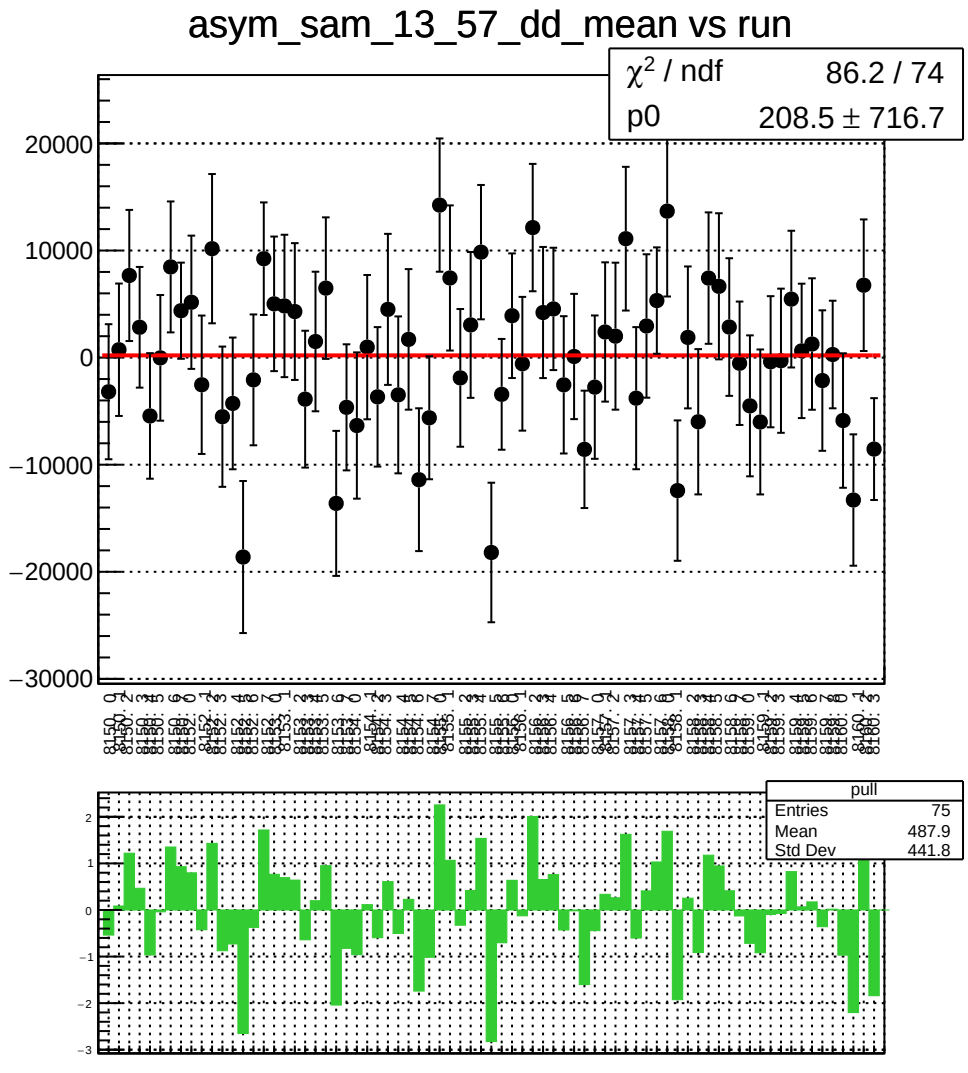

pull1D
Entries 75
Mean −0.02187
Std Dev 0.8994

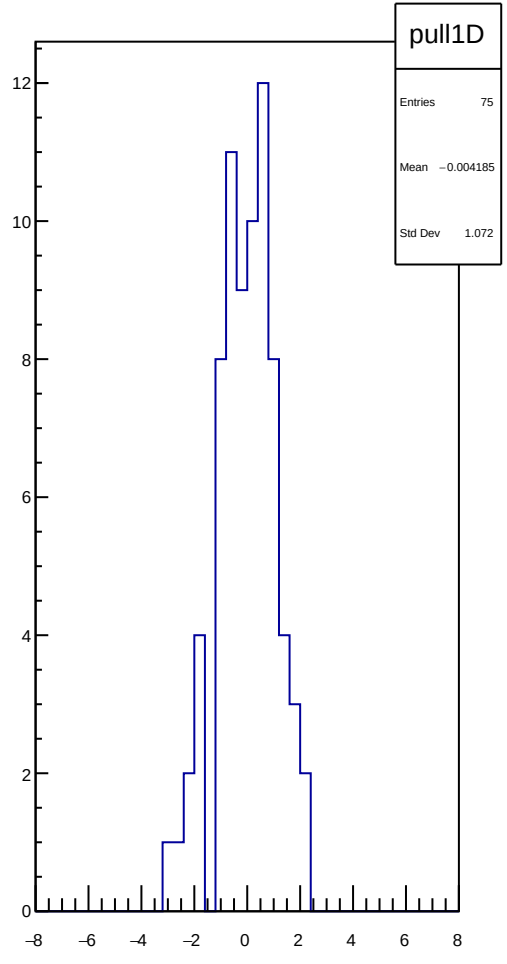

reg_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 5855 / 74
p0 61.98 ± 0.05167
80
75
70
65
60
55
50

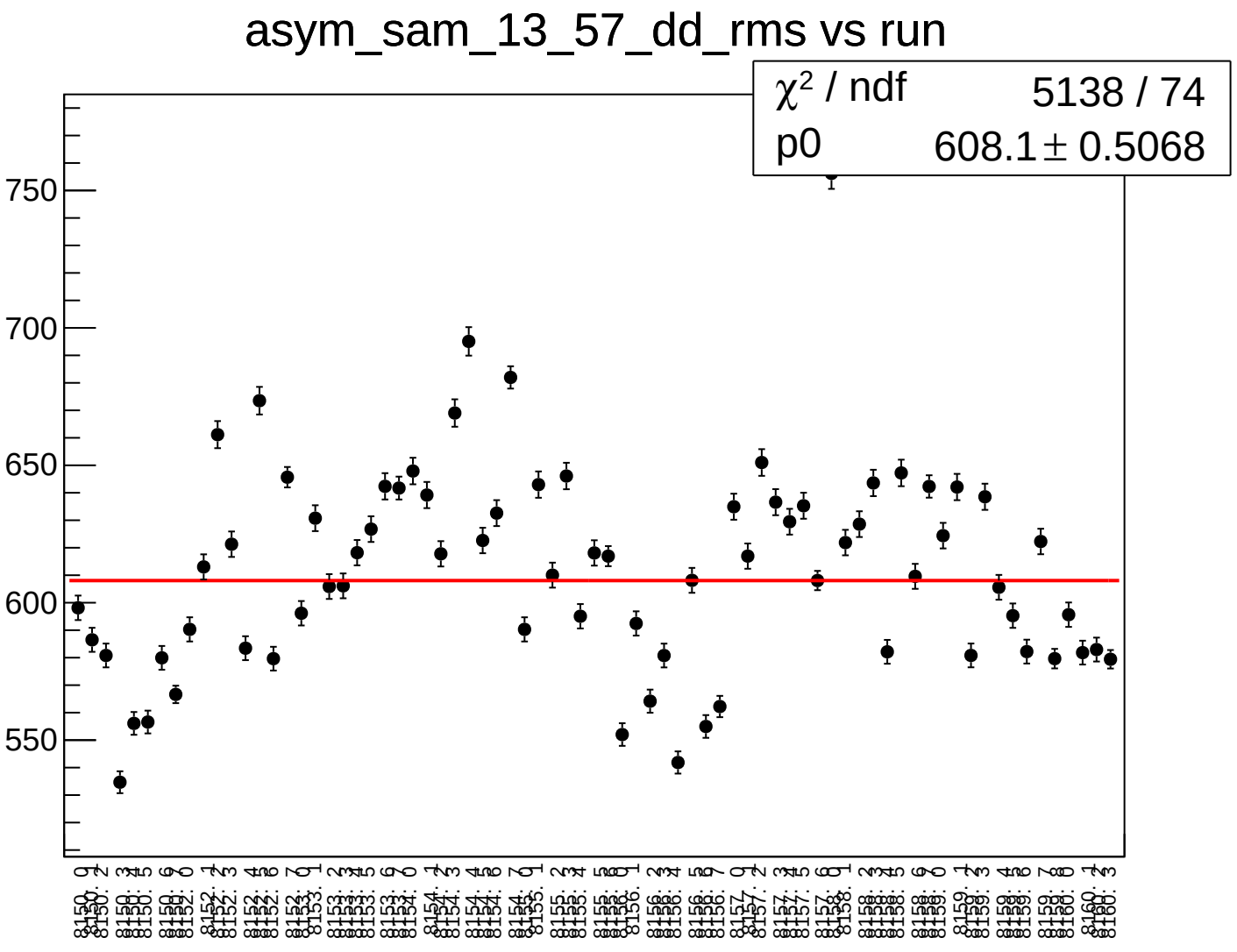

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 85.09 / 74
p0 −305.5 ± 712.9
30000
20000
10000
0
−10000
−20000
pull
Entries 75
Mean 816.1
Std Dev 771.1
3
2
1
0
−1
−2

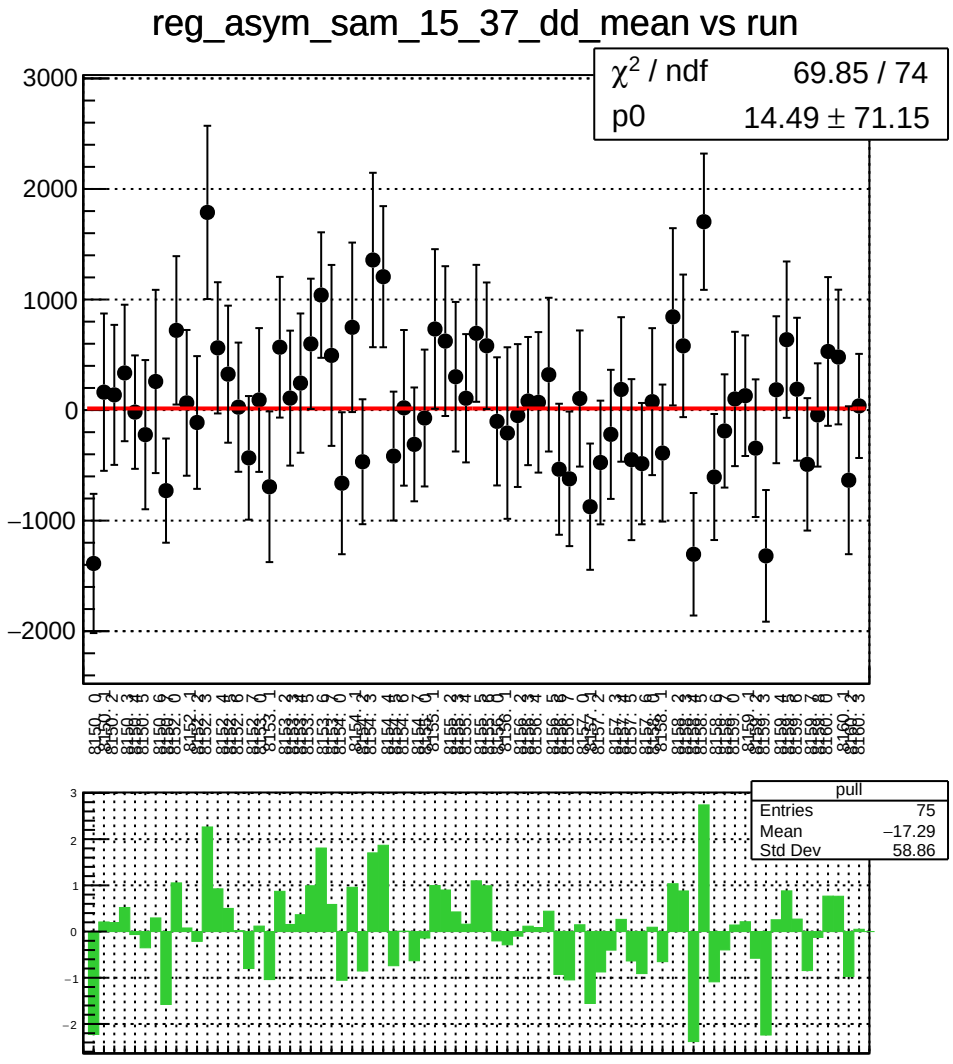

pull1D
Entries 75
Mean 0.00247
Std Dev 1.065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

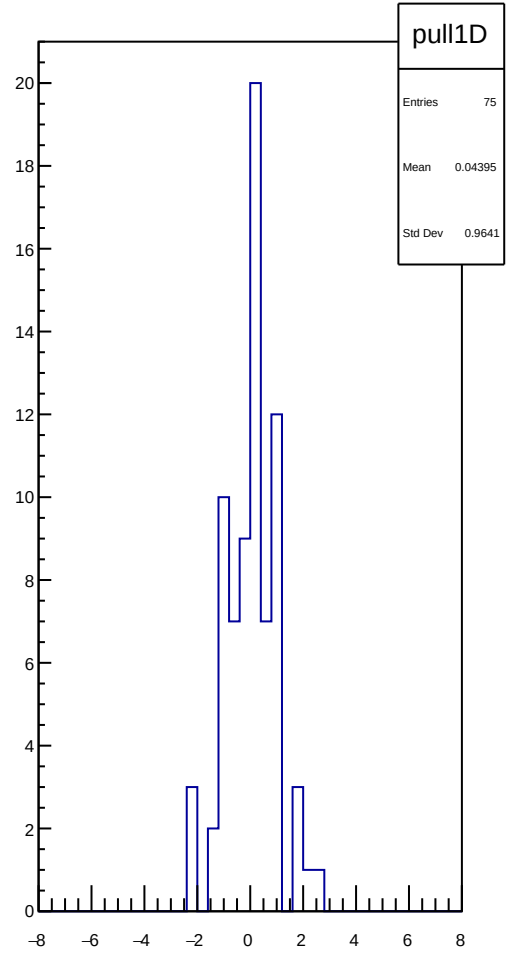

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 5216 / 74
p0 604.8 ± 0.5041
750
700
650
600
550

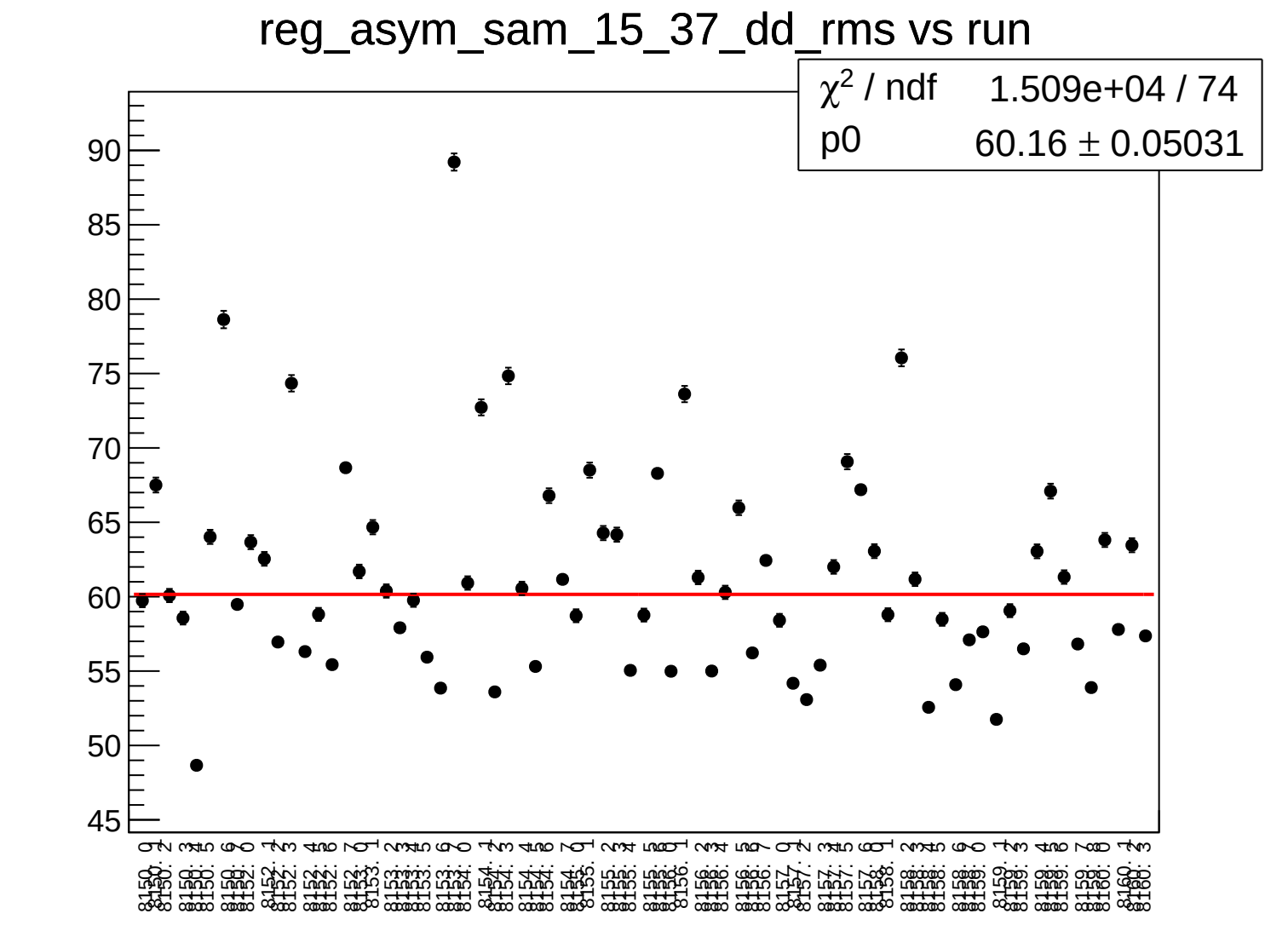

asym_sam_13_57_dd_mean vs run
χ² / ndf 86.2 / 74
p0 208.5 ± 716.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 75
Mean 487.9
Std Dev 441.8
2
1
0
−1
−2
−3

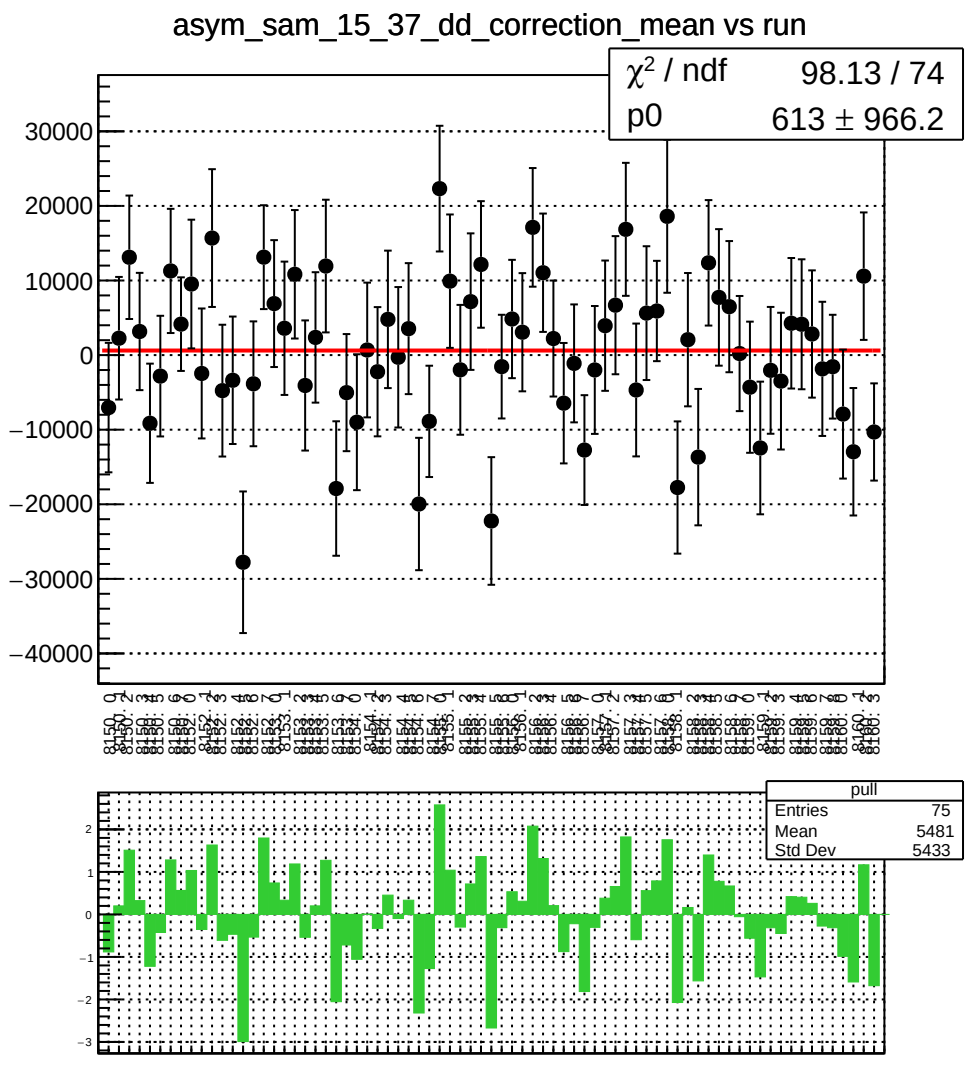

pull1D
Entries 75
Mean −0.004185
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

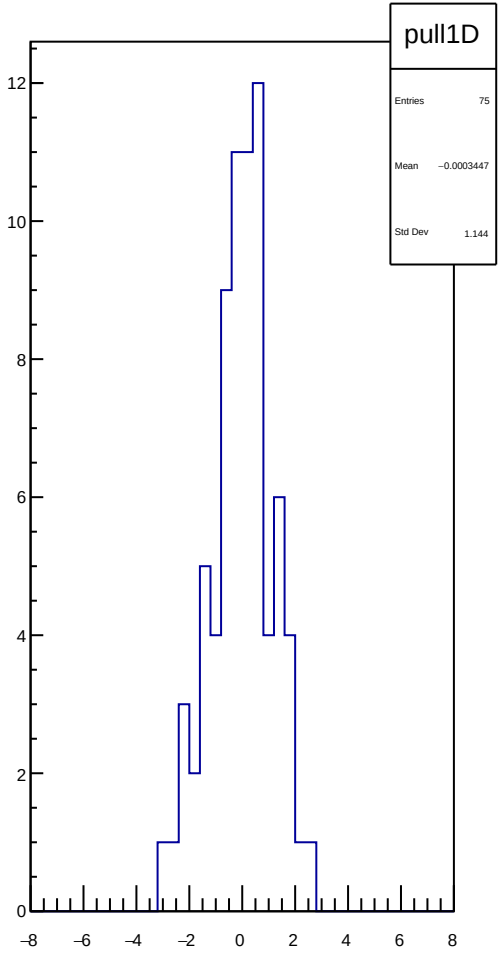

asym_sam_13_57_dd_rms vs run
χ² / ndf 5138 / 74
p0 608.1 ± 0.5068
750
700
650
600
550

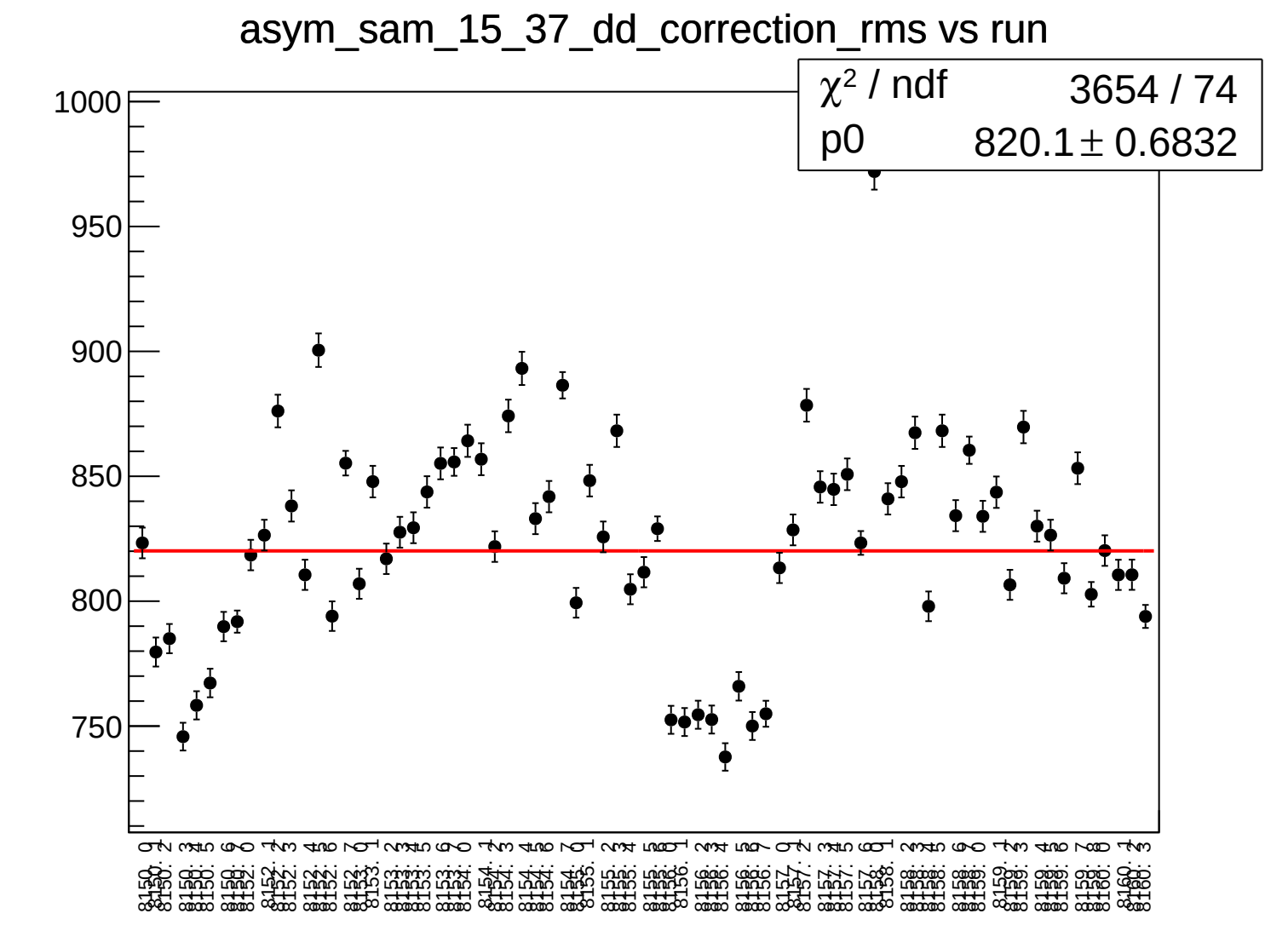

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 69.85 / 74
p0 14.49 ± 71.15
pull
Entries 75
Mean −17.29
Std Dev 58.86

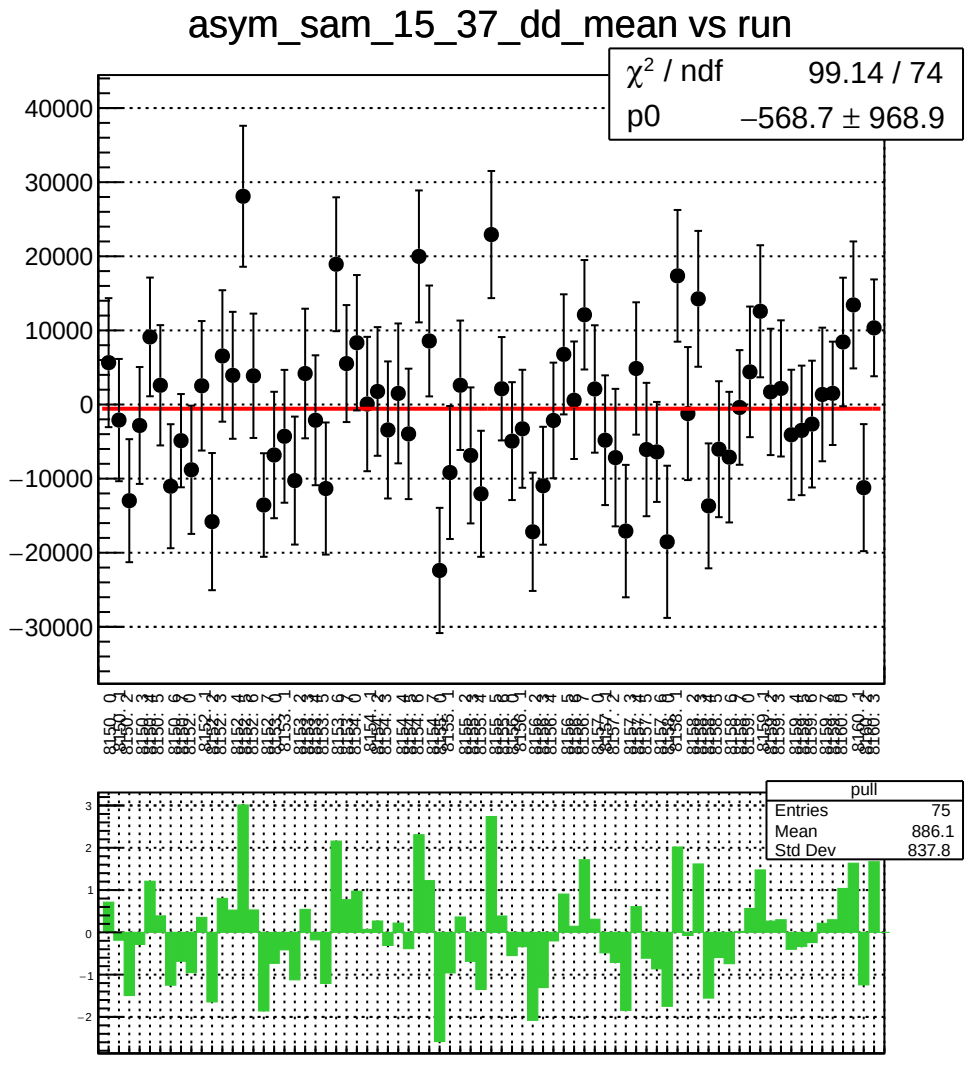

pull1D
Entries 75
Mean 0.04395
Std Dev 0.9641

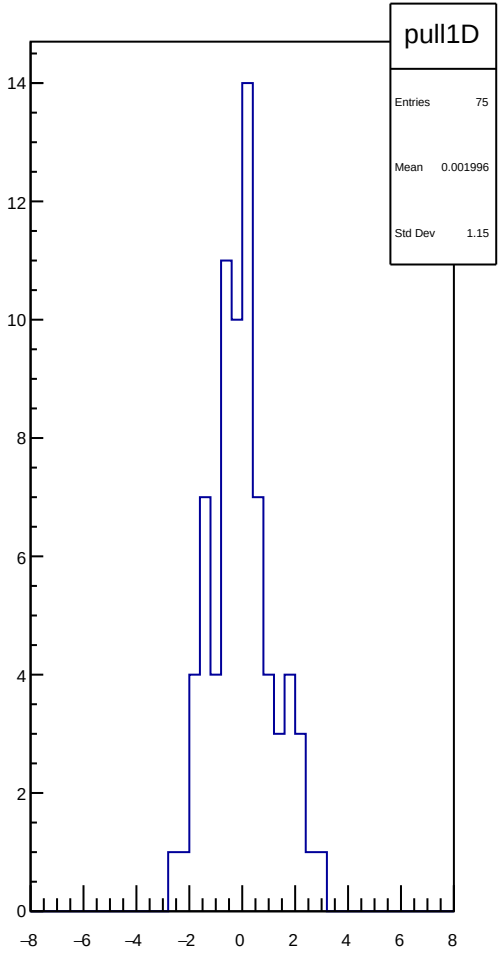

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.509e+04 / 74
p0 60.16 ± 0.05031
90
85
80
75
70
65
60
55
50
45

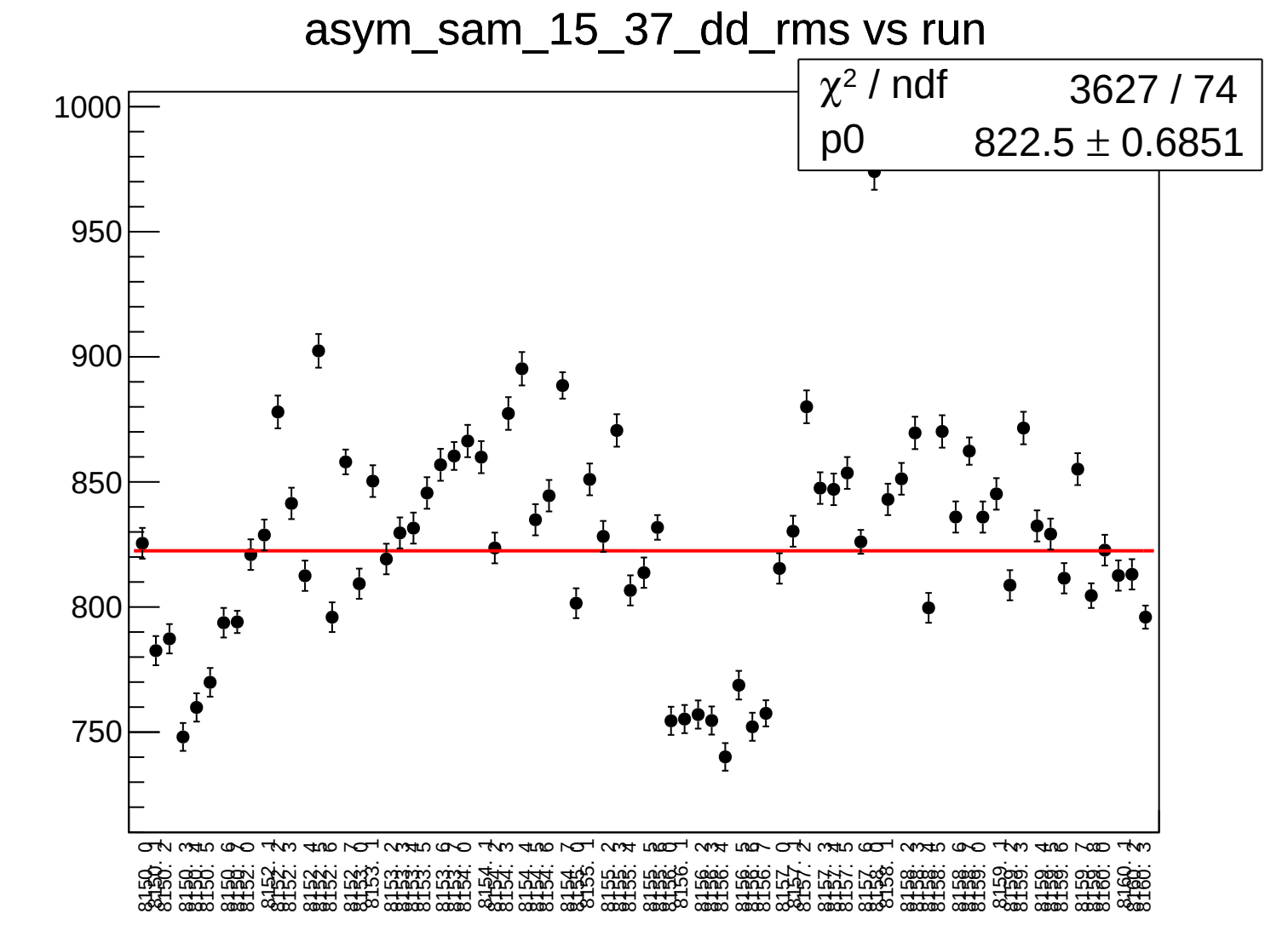

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 98.13 / 74
p0 613 ± 966.2
pull
Entries 75
Mean 5481
Std Dev 5433

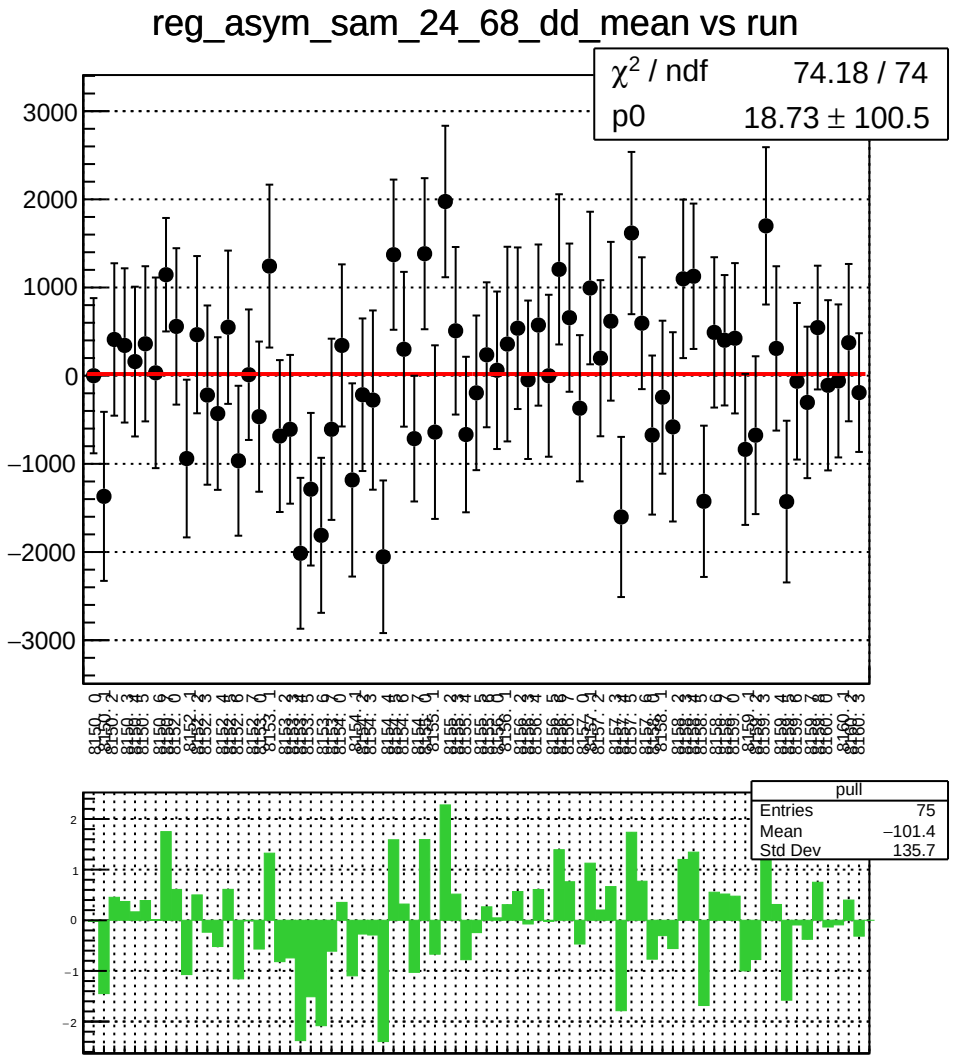

pull1D
Entries 75
Mean −0.0003447
Std Dev 1.144

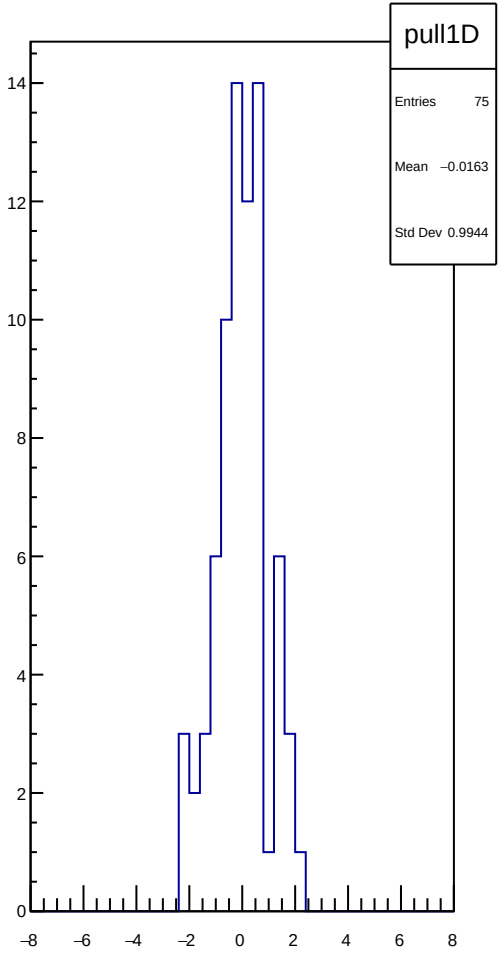

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 3654 / 74
p0 820.1 ± 0.6832
1000
950
900
850
800
750

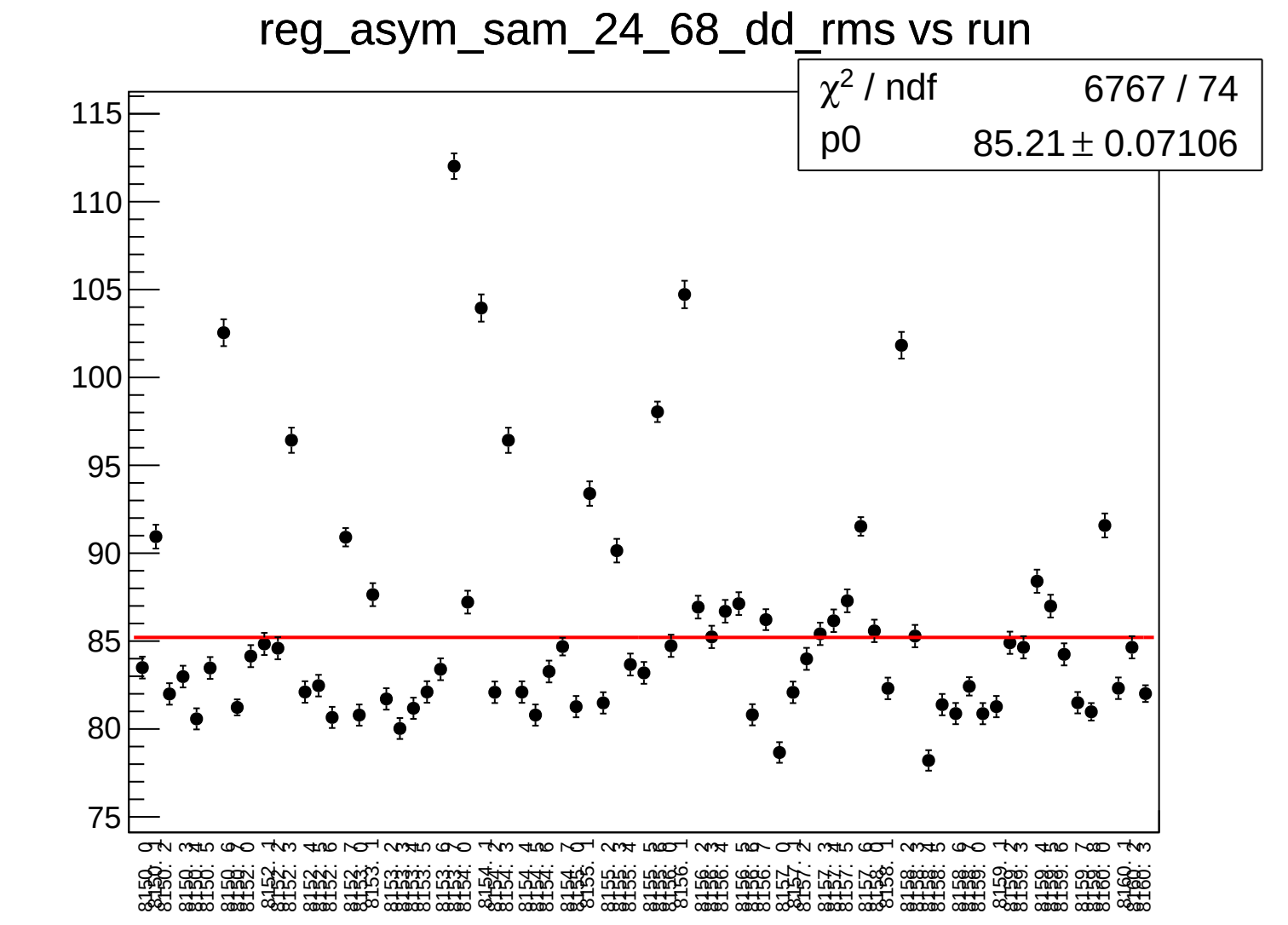

asym_sam_15_37_dd_mean vs run
χ² / ndf 99.14 / 74
p0 −568.7 ± 968.9
pull
Entries 75
Mean 886.1
Std Dev 837.8

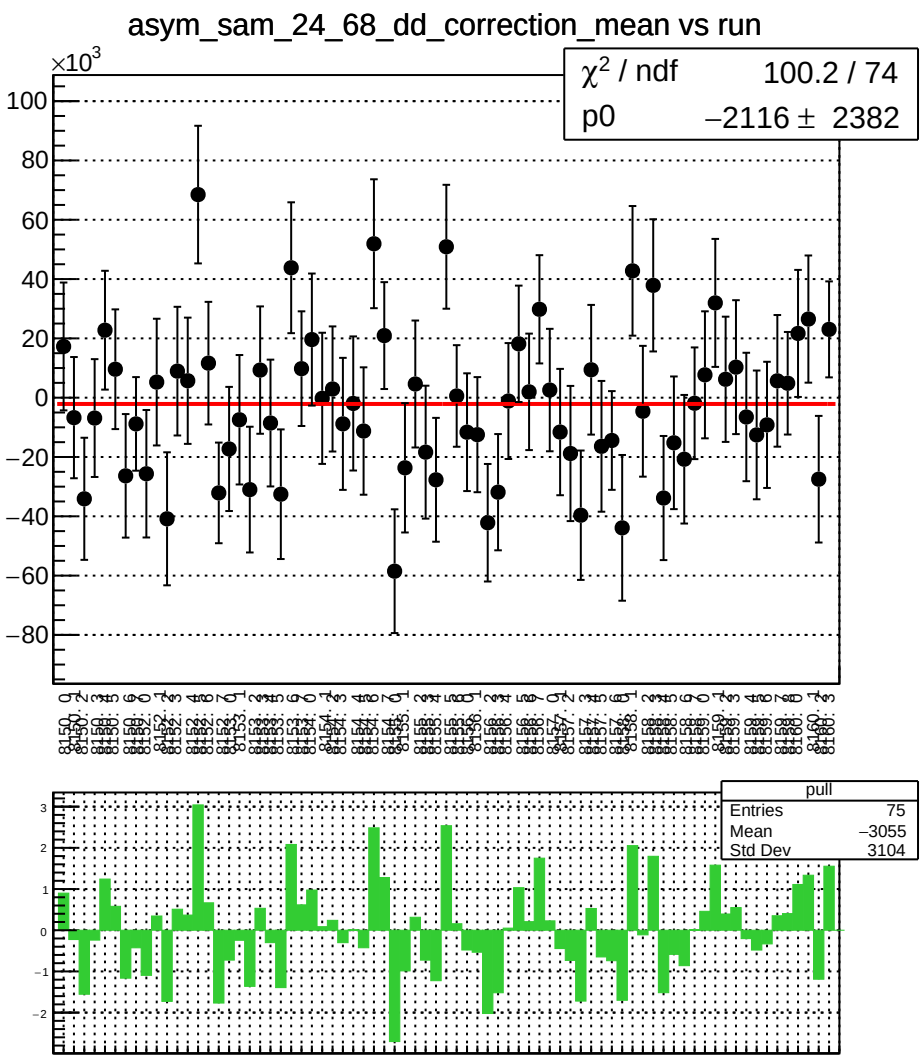

pull1D
Entries 75
Mean 0.001996
Std Dev 1.15

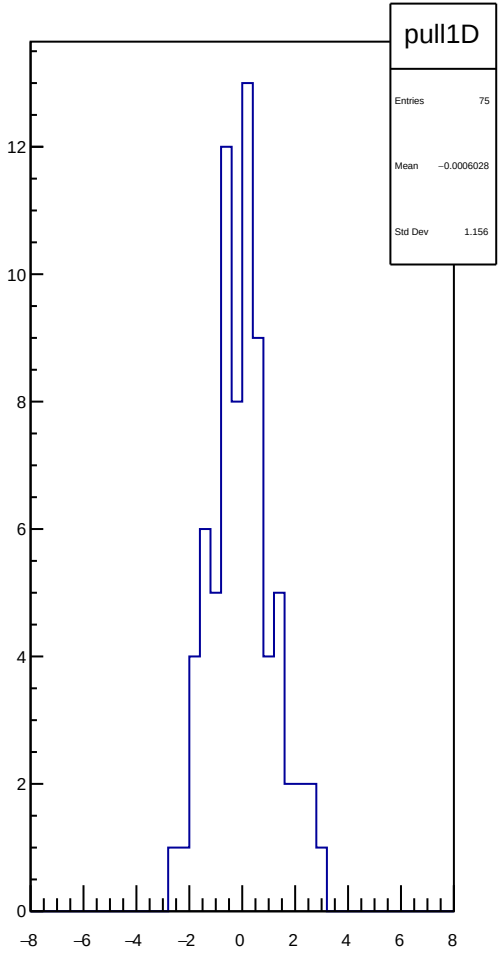

asym_sam_15_37_dd_rms vs run
χ² / ndf 3627 / 74
p0 822.5 ± 0.6851
1000
950
900
850
800
750

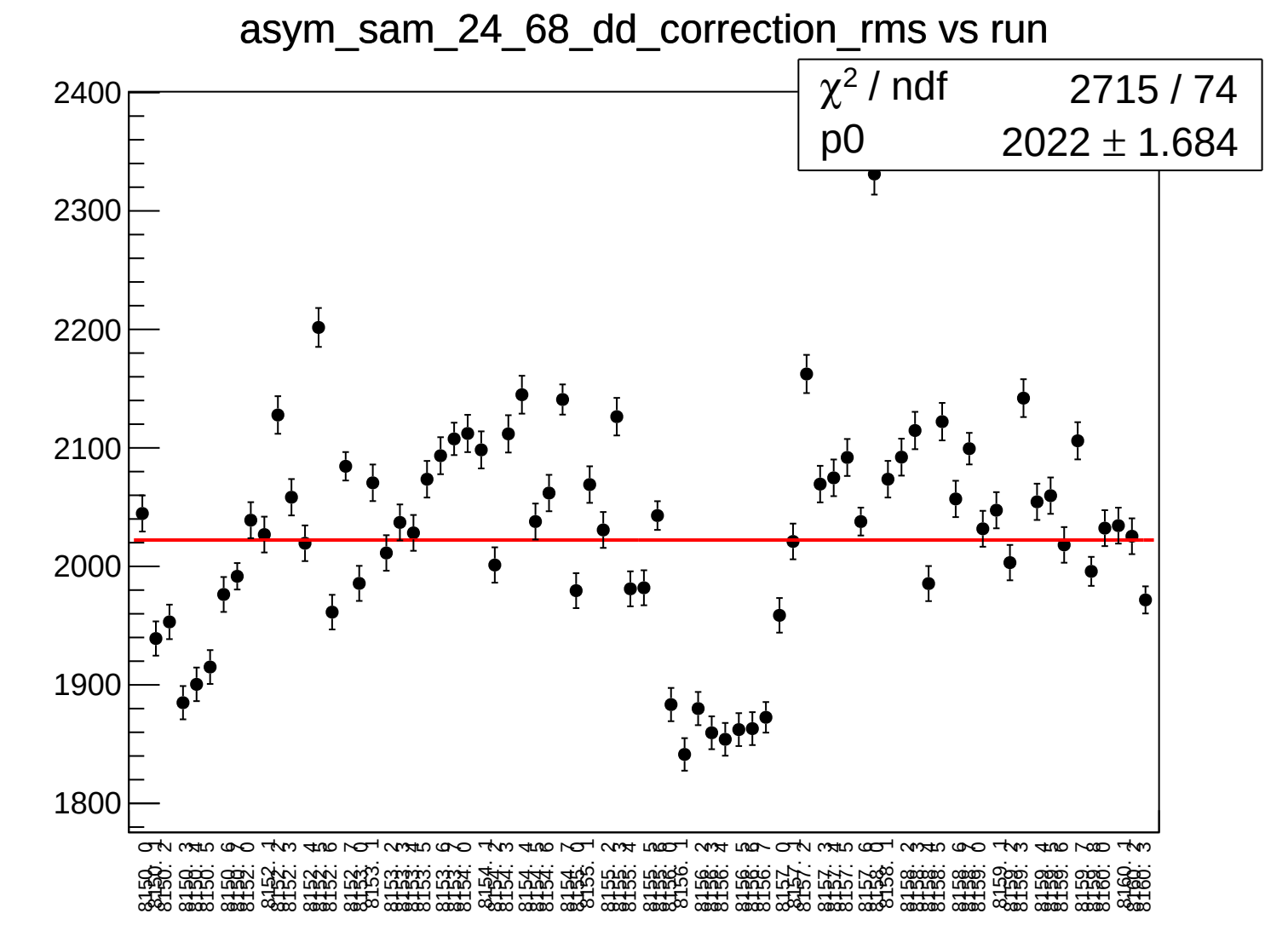

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 74.18 / 74
p0 18.73 ± 100.5
pull
Entries 75
Mean −101.4
Std Dev 135.7

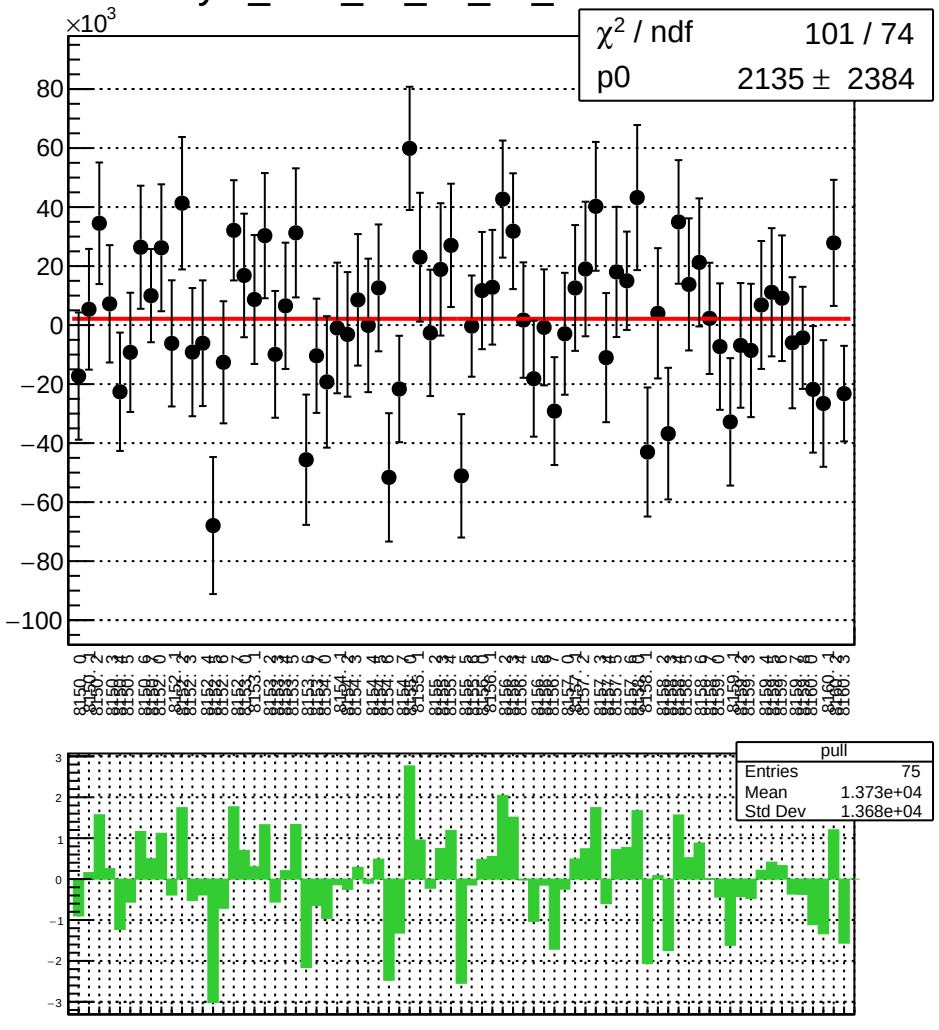

pull1D
Entries 75
Mean −0.0163
Std Dev 0.9944

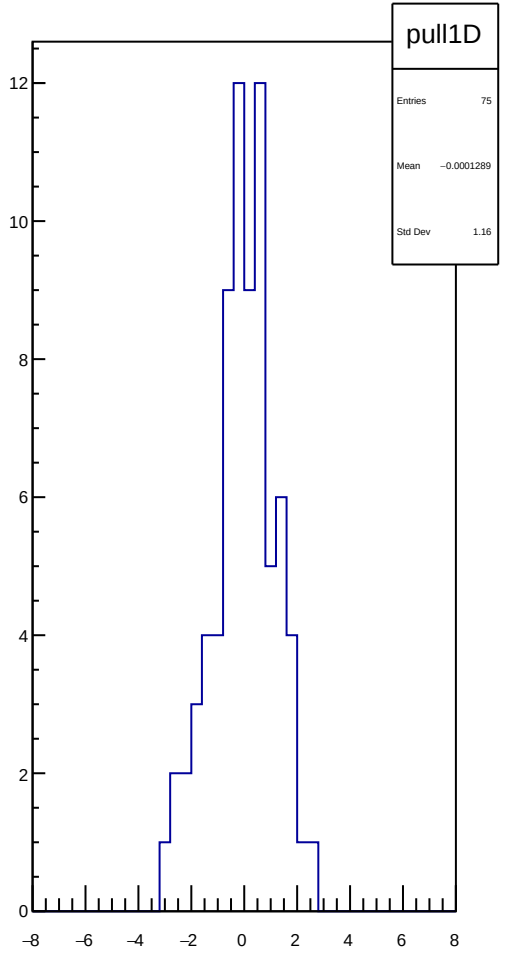

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 6767 / 74
p0 85.21 ± 0.07106
115
110
105
100
95
90
85
80
75

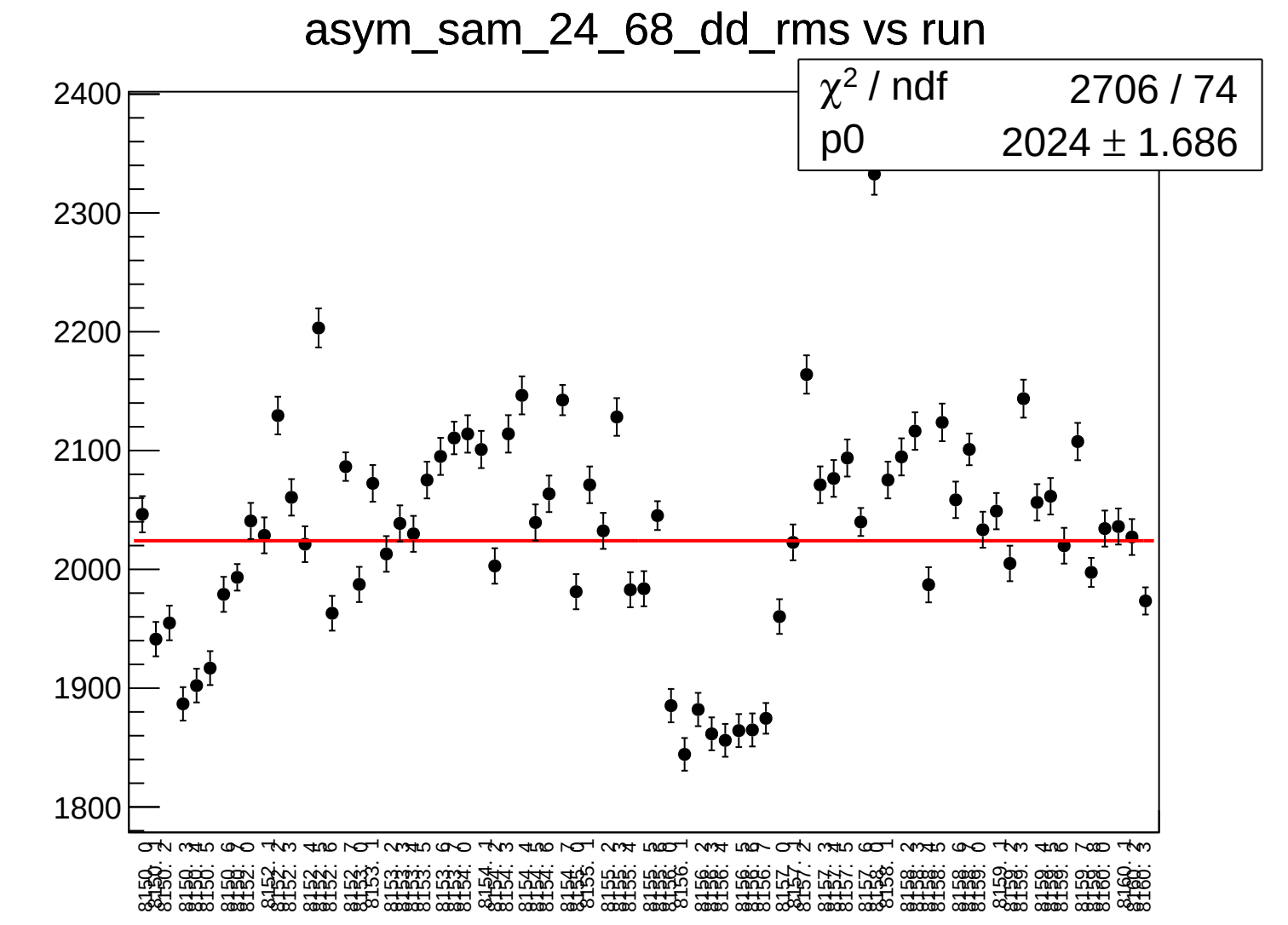

asym_sam_24_68_dd_correction_mean vs run
×10^3
χ² / ndf 100.2 / 74
p0 −2116 ± 2382
pull
Entries 75
Mean −3055
Std Dev 3104

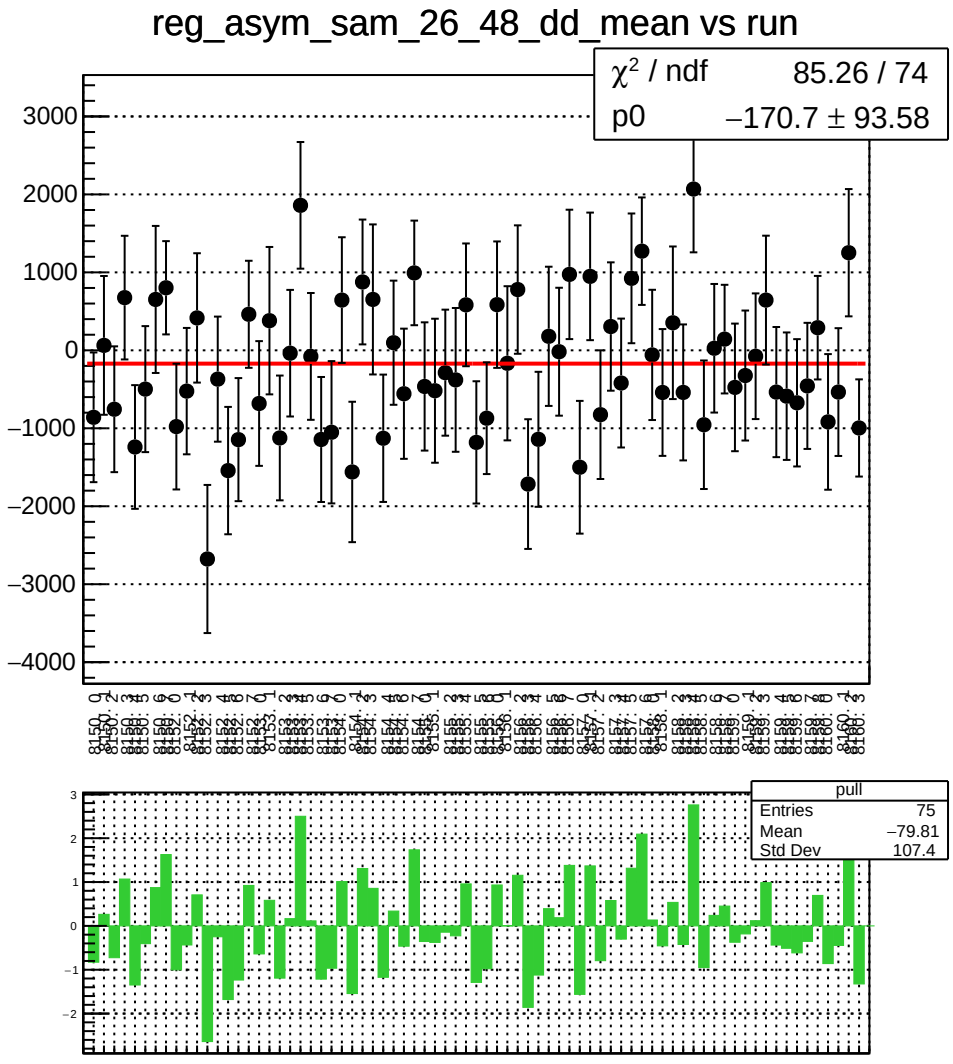

pull1D
Entries 75
Mean −0.0006028
Std Dev 1.156

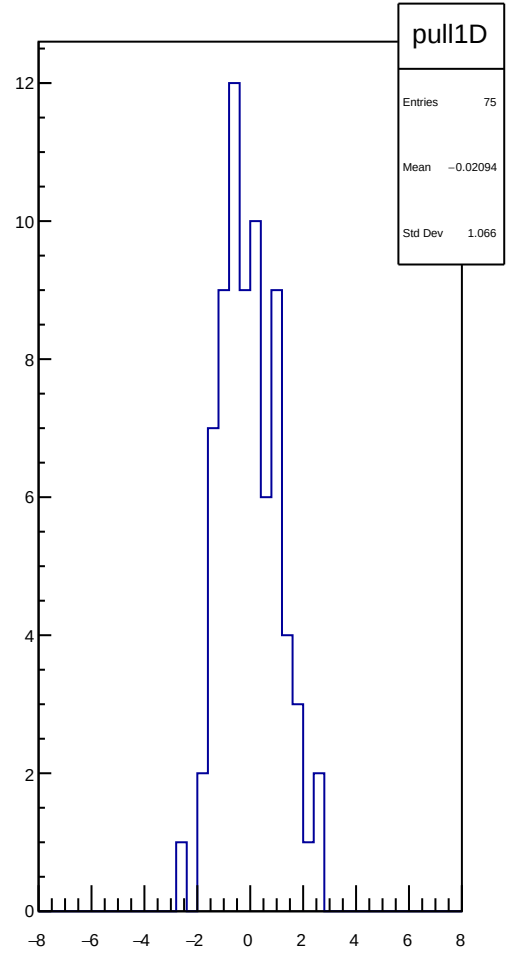

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 2715 / 74
p0 2022 ± 1.684
2400
2300
2200
2100
2000
1900
1800

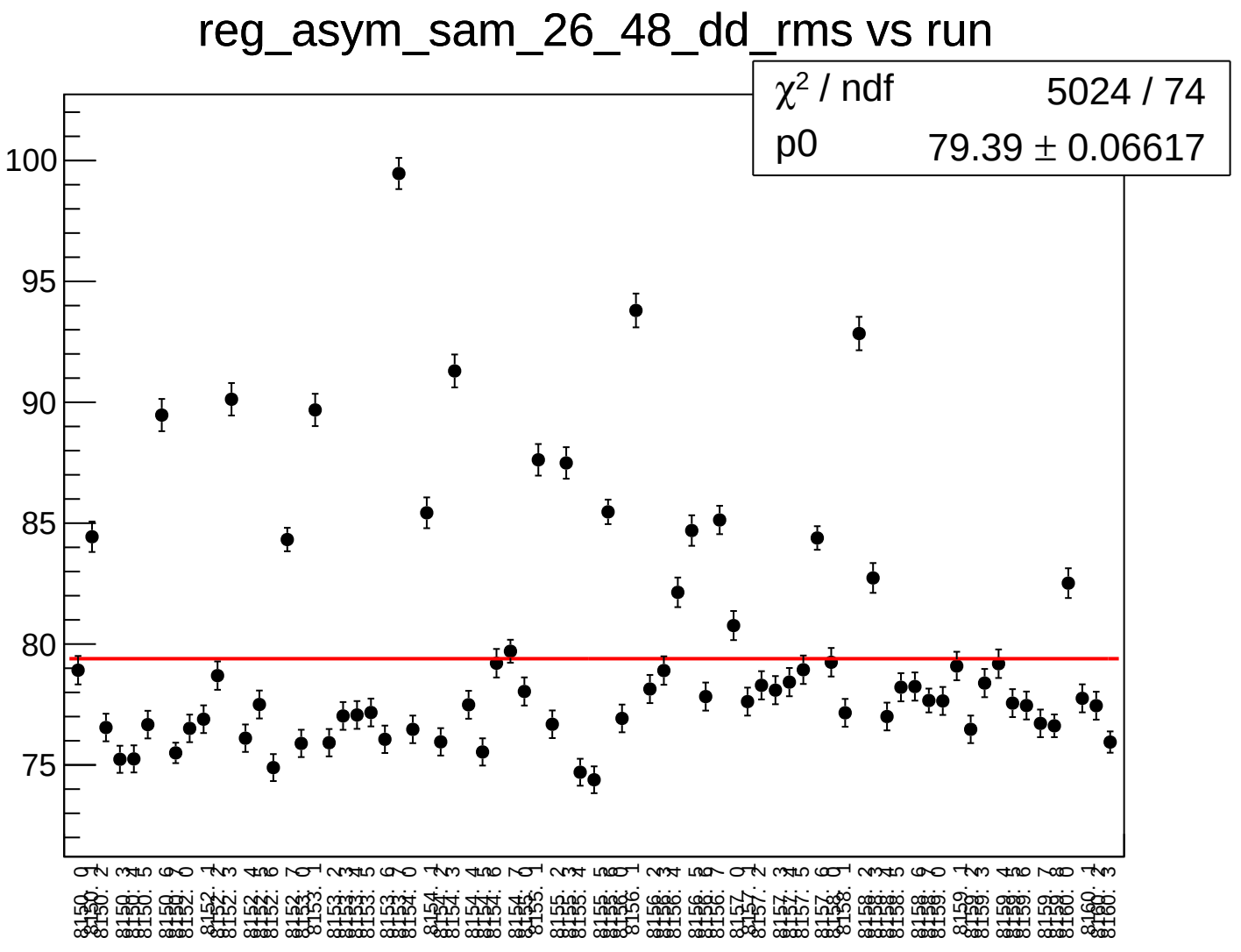

asym_sam_24_68_dd_mean vs run
×10^3
χ^2 / ndf 101 / 74
p0 2135 ± 2384
pull
Entries 75
Mean 1.373e+04
Std Dev 1.368e+04

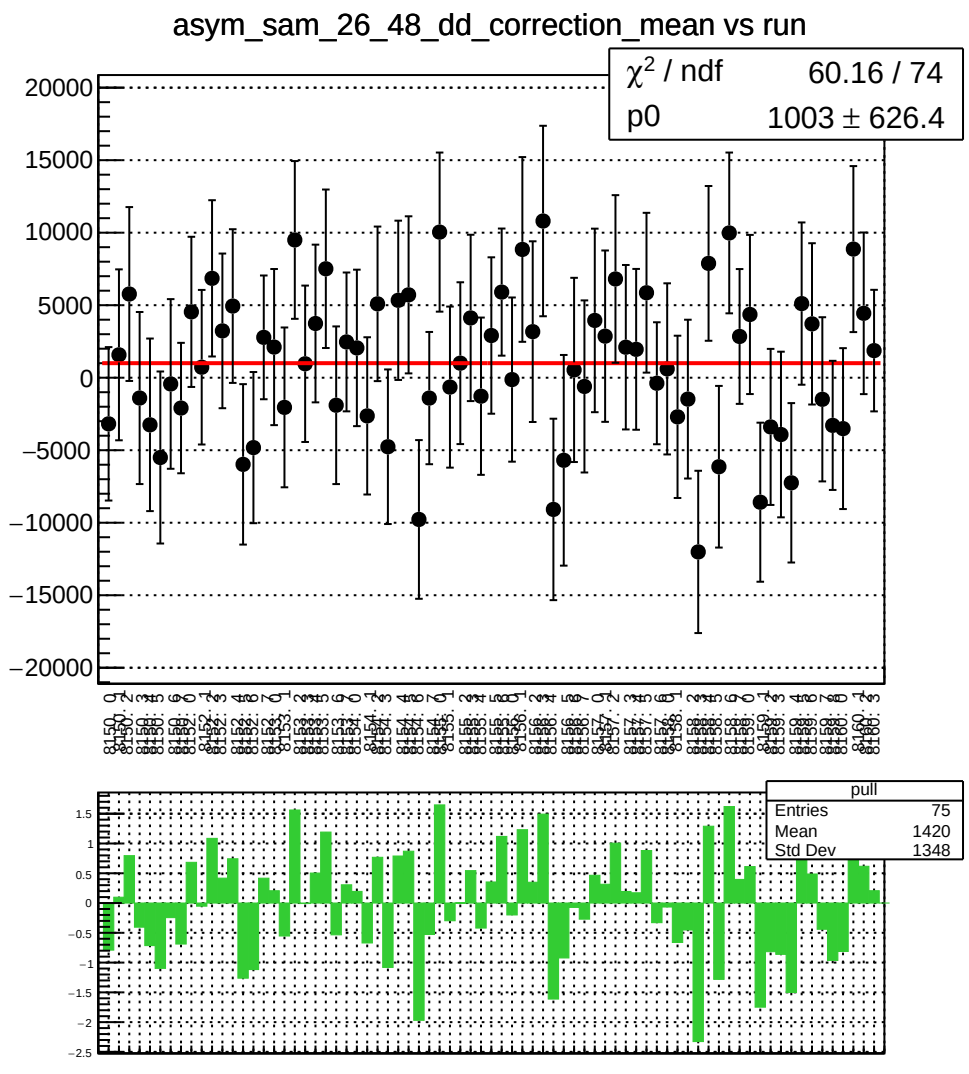

pull1D
Entries 75
Mean −0.0001289
Std Dev 1.16

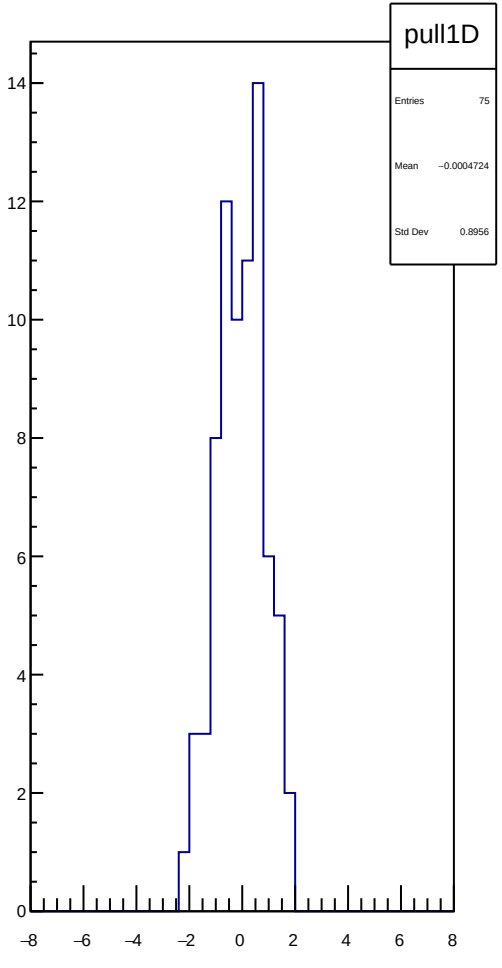

asym_sam_24_68_dd_rms vs run
χ² / ndf 2706 / 74
p0 2024 ± 1.686
2400
2300
2200
2100
2000
1900
1800

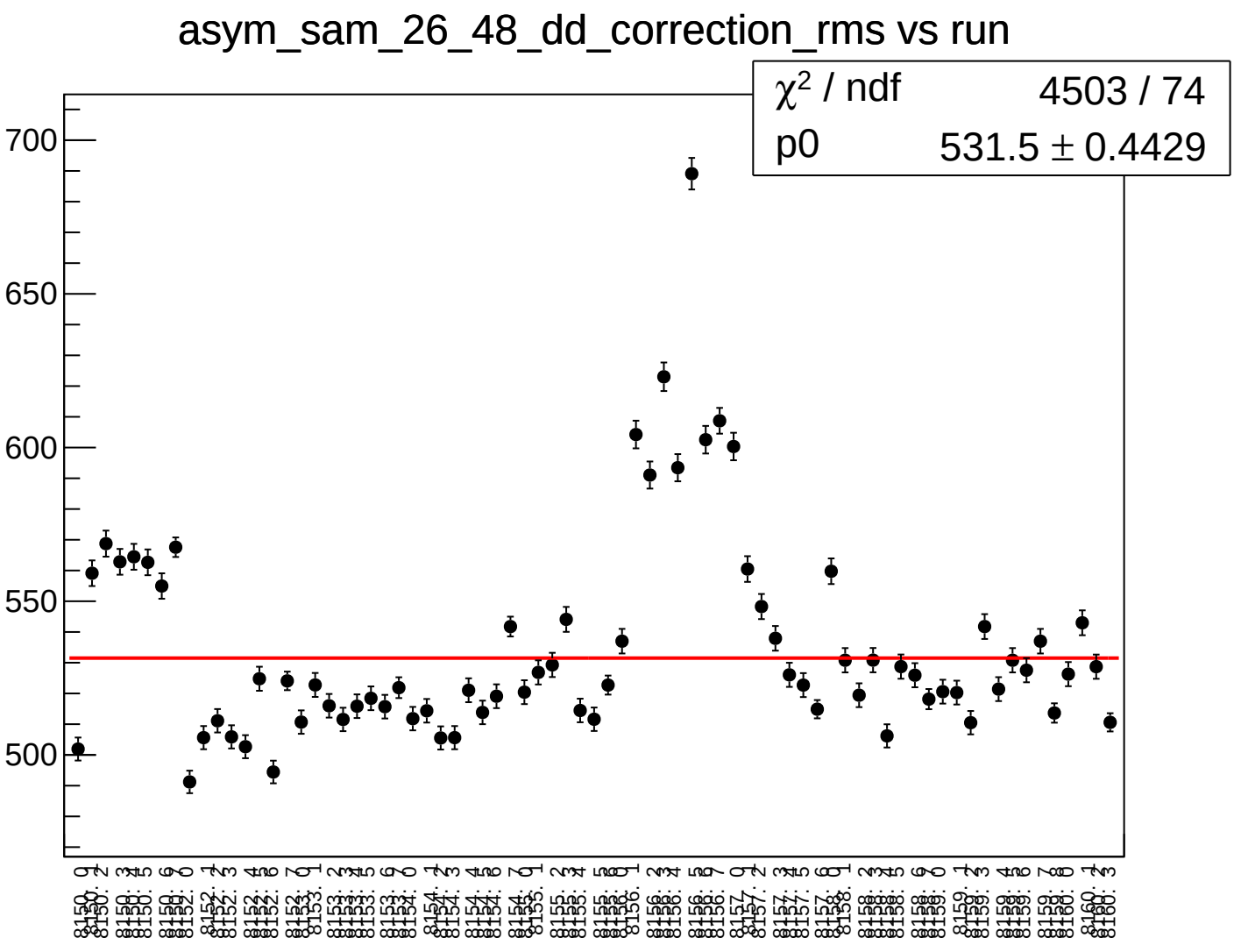

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 85.26 / 74
p0 −170.7 ± 93.58
pull
Entries 75
Mean −79.81
Std Dev 107.4

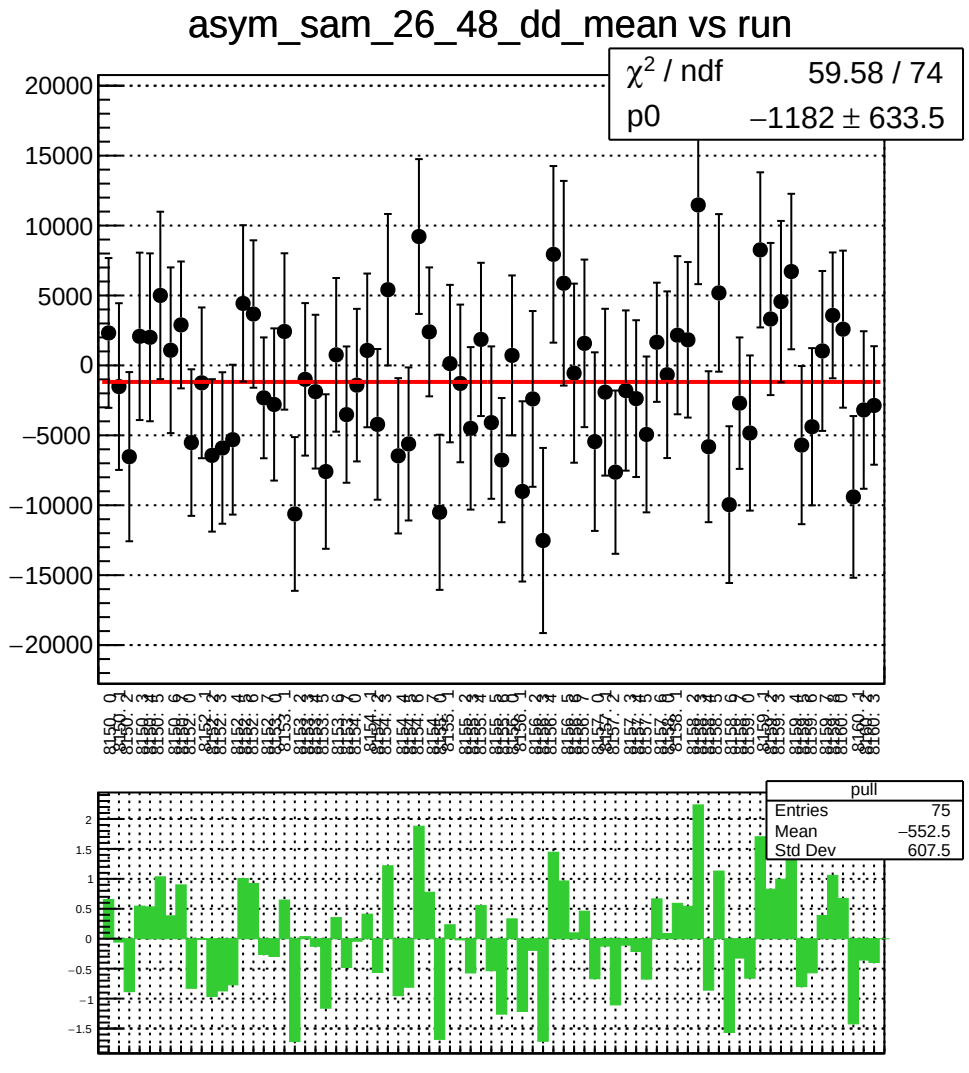

pull1D
Entries 75
Mean −0.02094
Std Dev 1.066

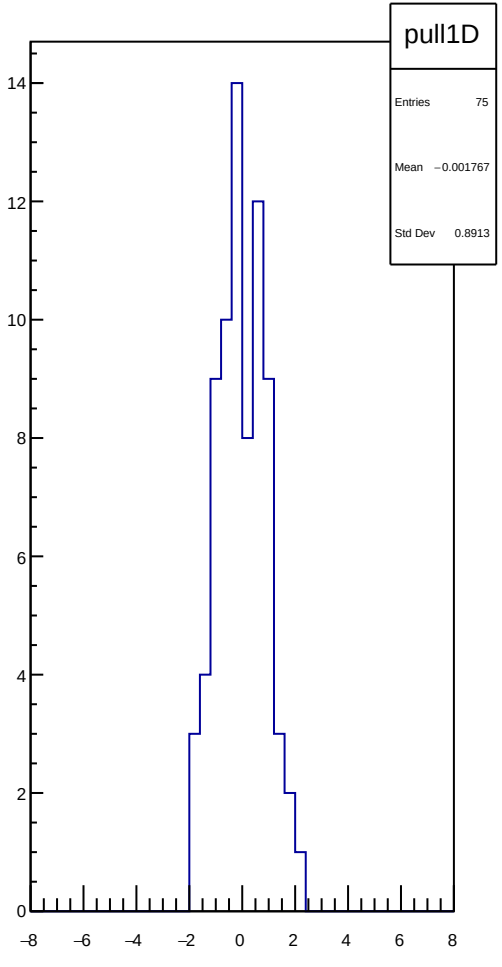

reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 5024 / 74
p0 79.39 ± 0.06617
100
95
90
85
80
75

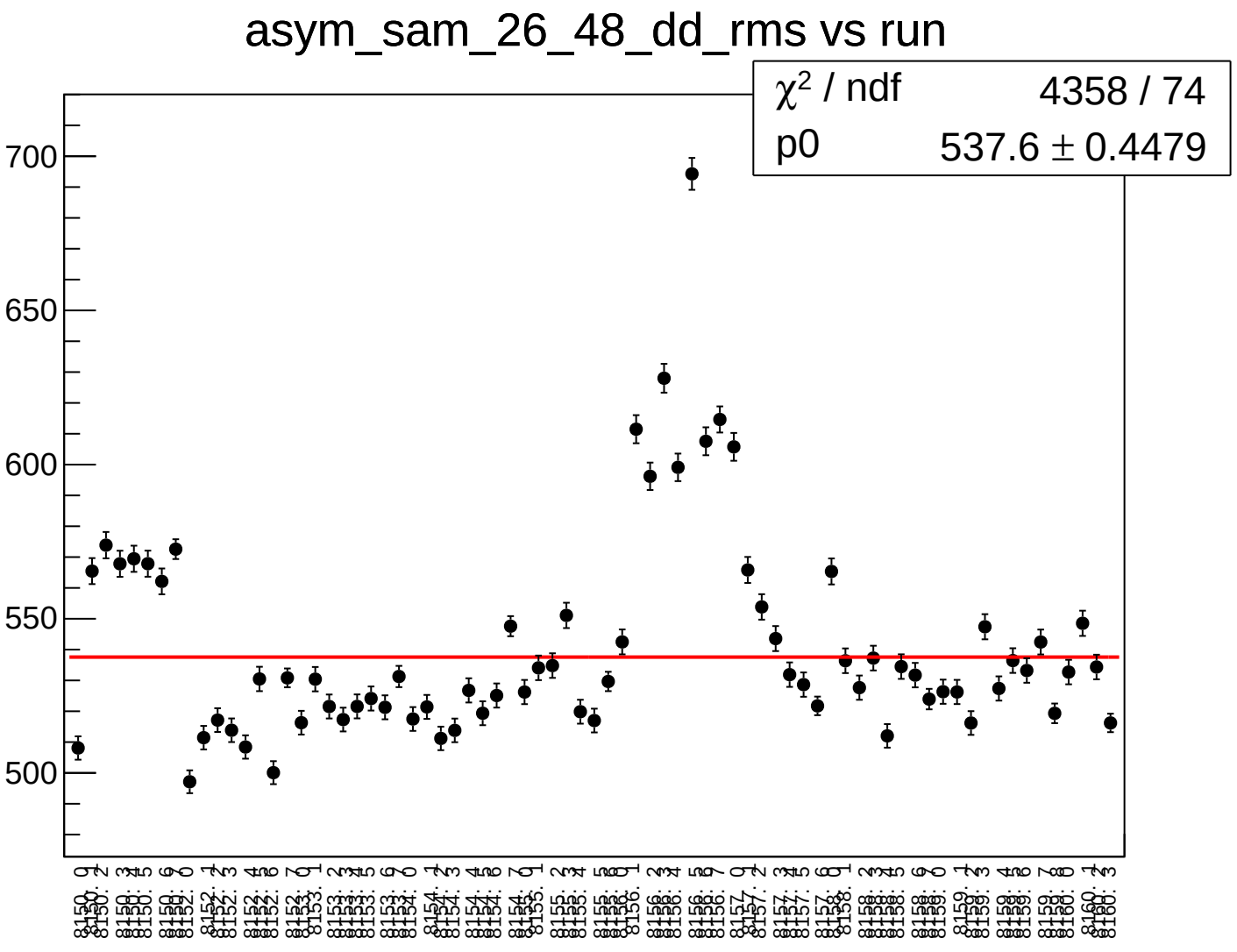

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 60.16 / 74
p0 1003 ± 626.4
pull
Entries 75
Mean 1420
Std Dev 1348

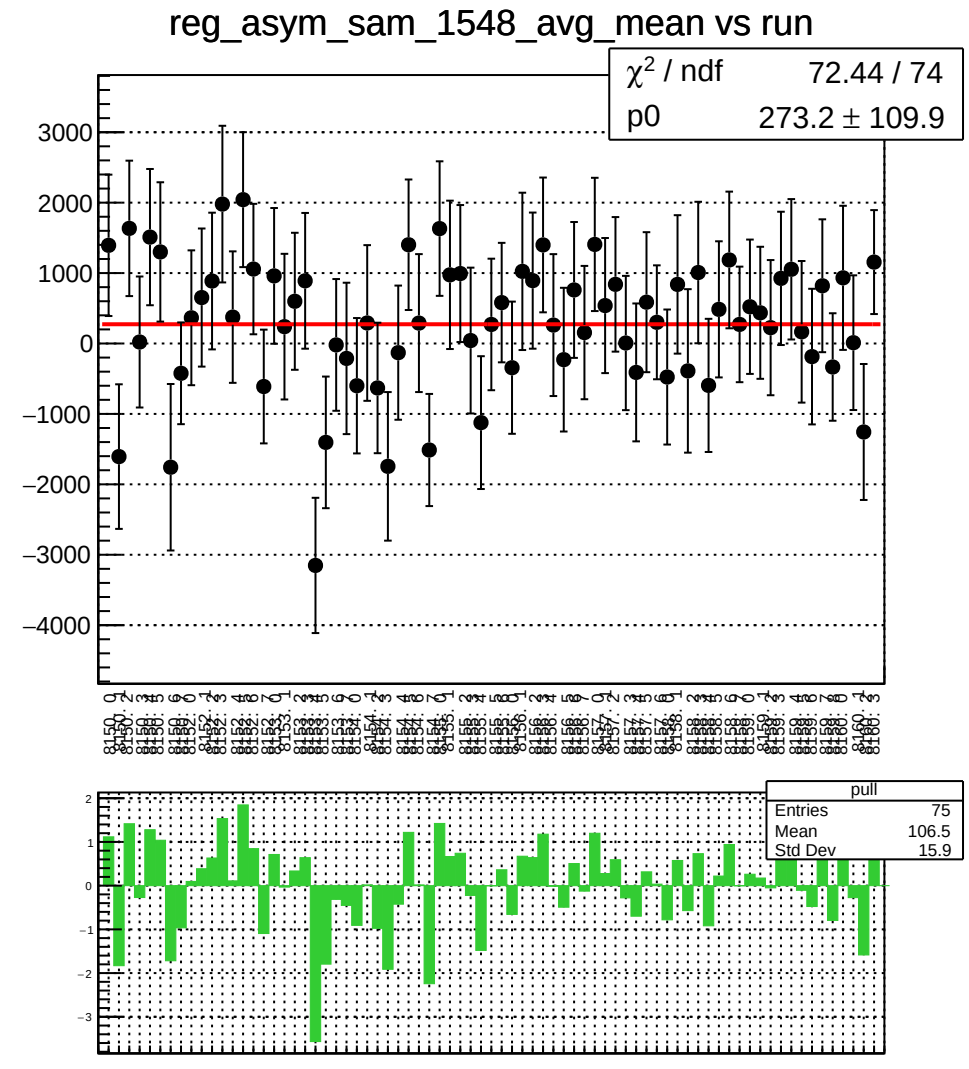

pull1D
Entries 75
Mean −0.0004724
Std Dev 0.8956

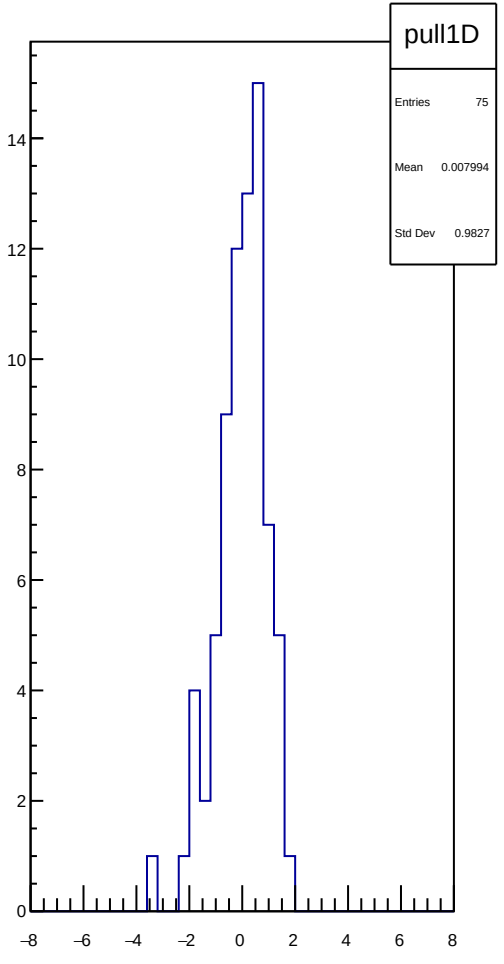

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 4503 / 74
p0 531.5 ± 0.4429
700
650
600
550
500

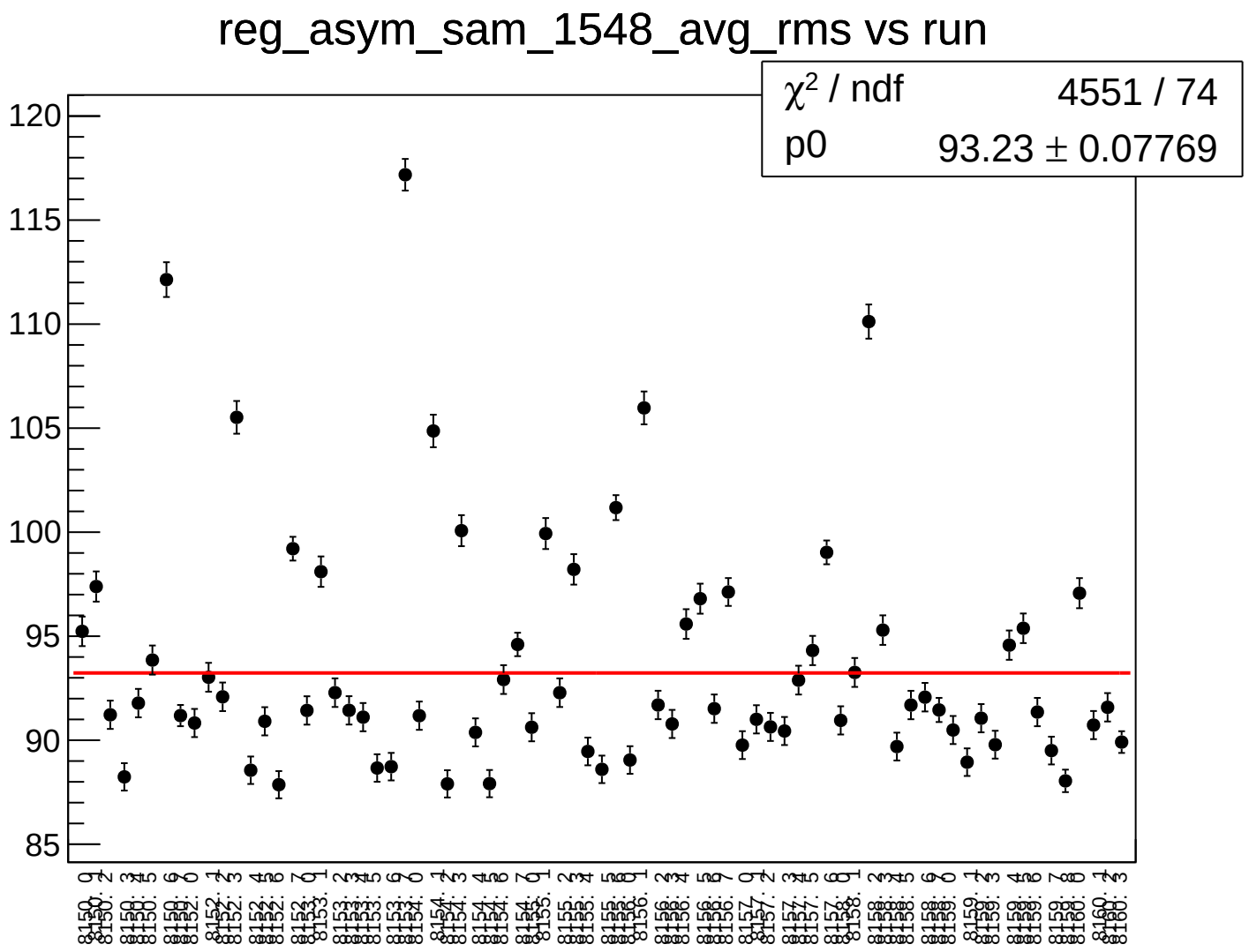

asym_sam_26_48_dd_mean vs run
χ² / ndf 59.58 / 74
p0 −1182 ± 633.5
pull
Entries 75
Mean −552.5
Std Dev 607.5

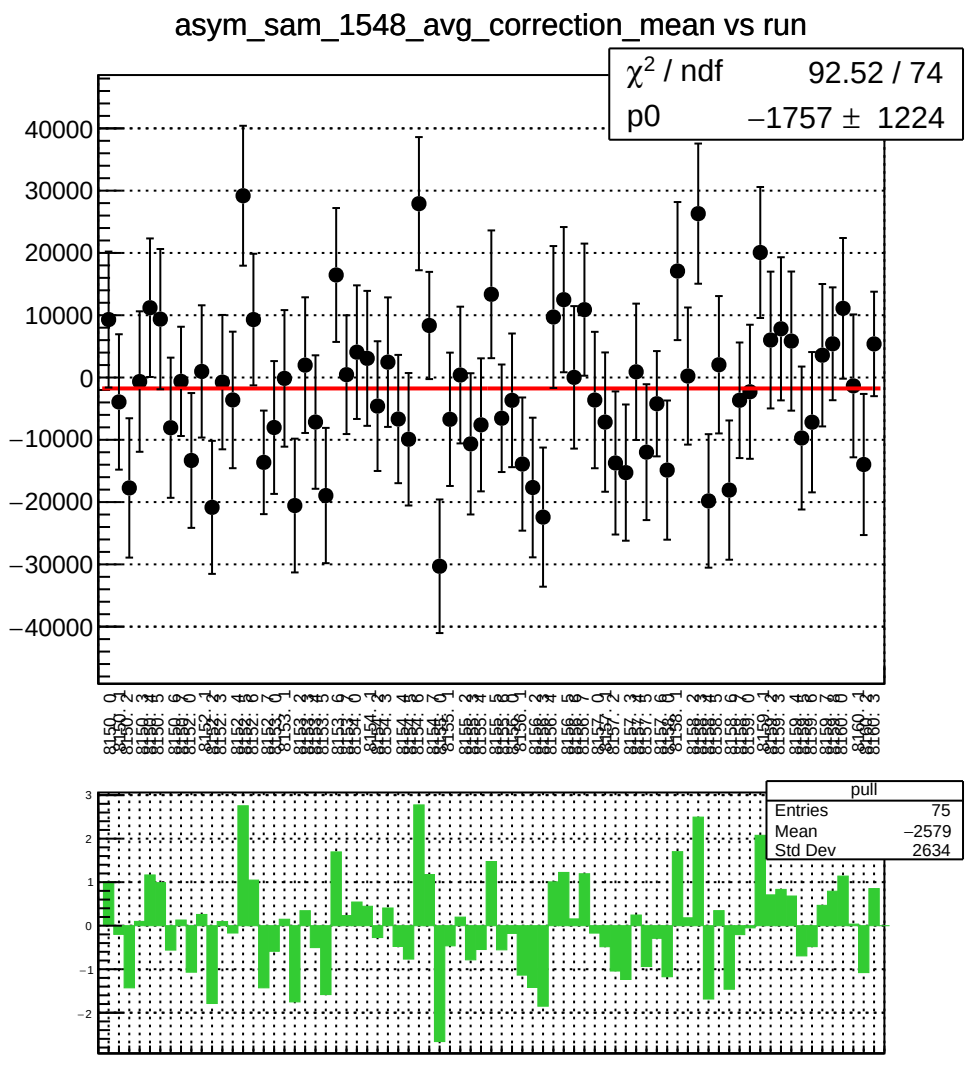

pull1D
Entries 75
Mean −0.001767
Std Dev 0.8913

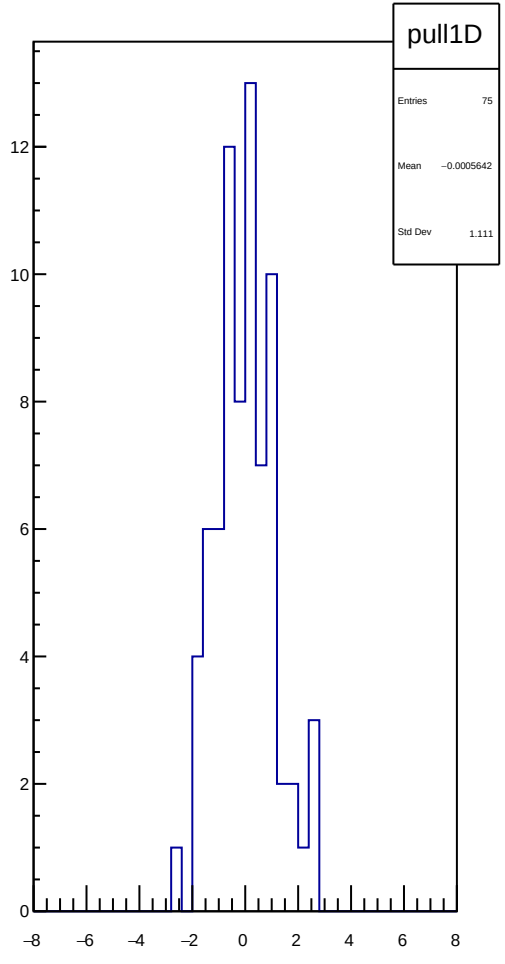

asym_sam_26_48_dd_rms vs run
χ² / ndf 4358 / 74
p0 537.6 ± 0.4479
700
650
600
550
500

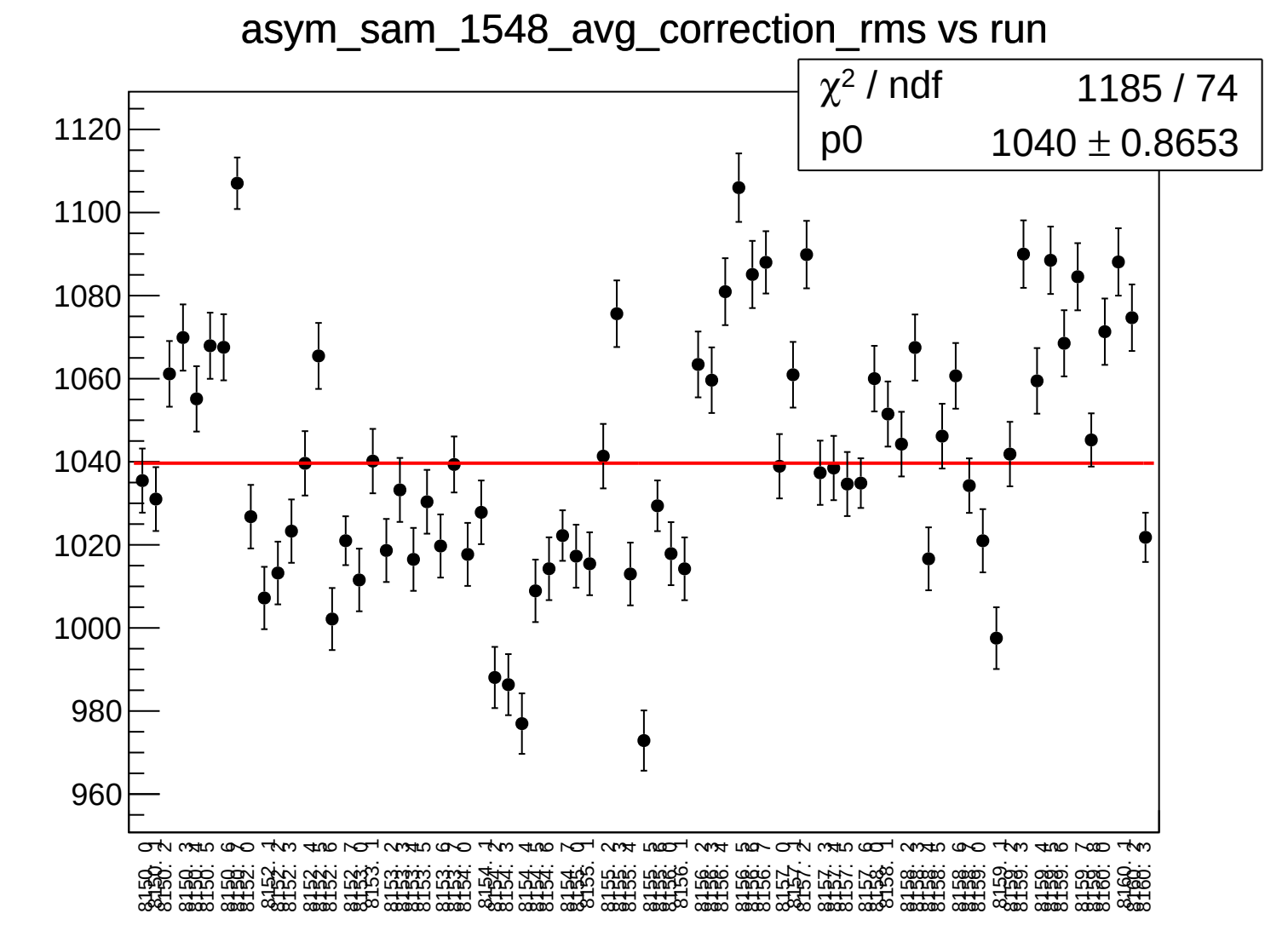

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 72.44 / 74
p0 273.2 ± 109.9
pull
Entries 75
Mean 106.5
Std Dev 15.9

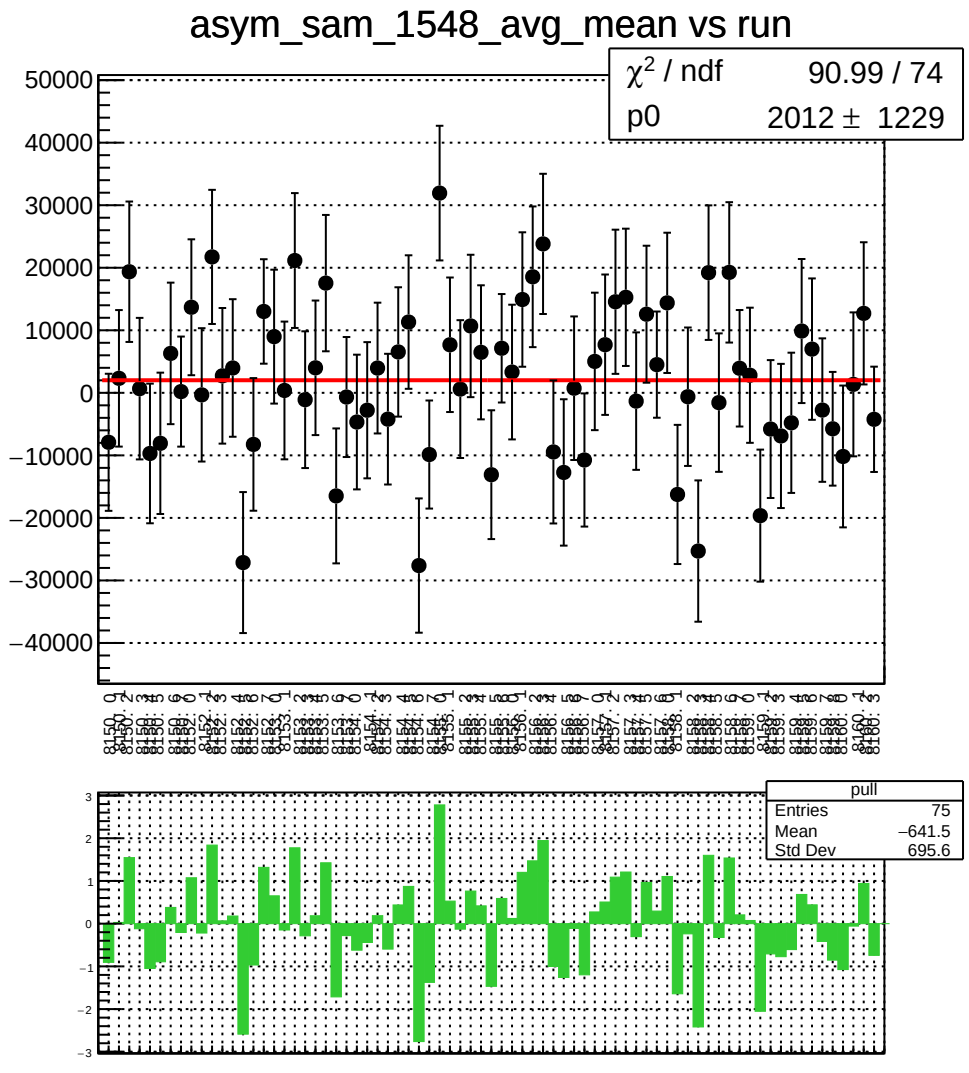

pull1D
Entries 75
Mean 0.007994
Std Dev 0.9827

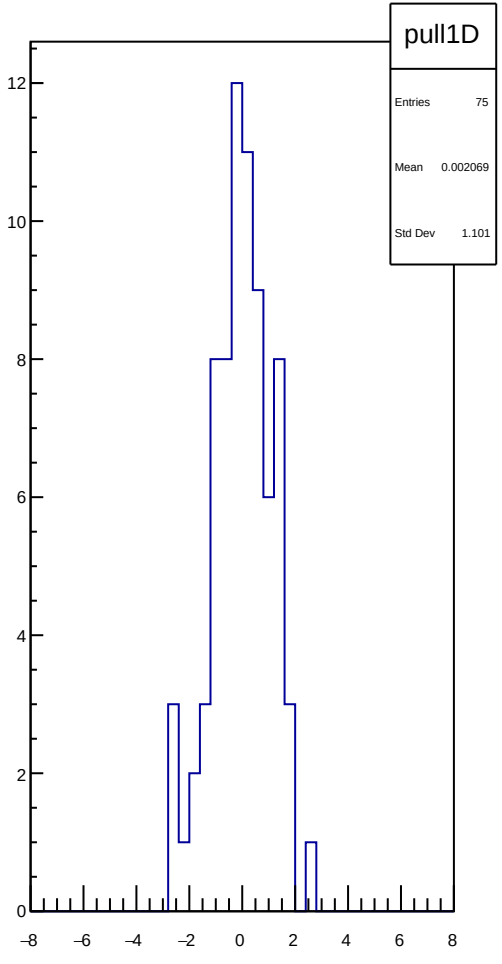

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 4551 / 74
p0 93.23 ± 0.07769
120
115
110
105
100
95
90
85

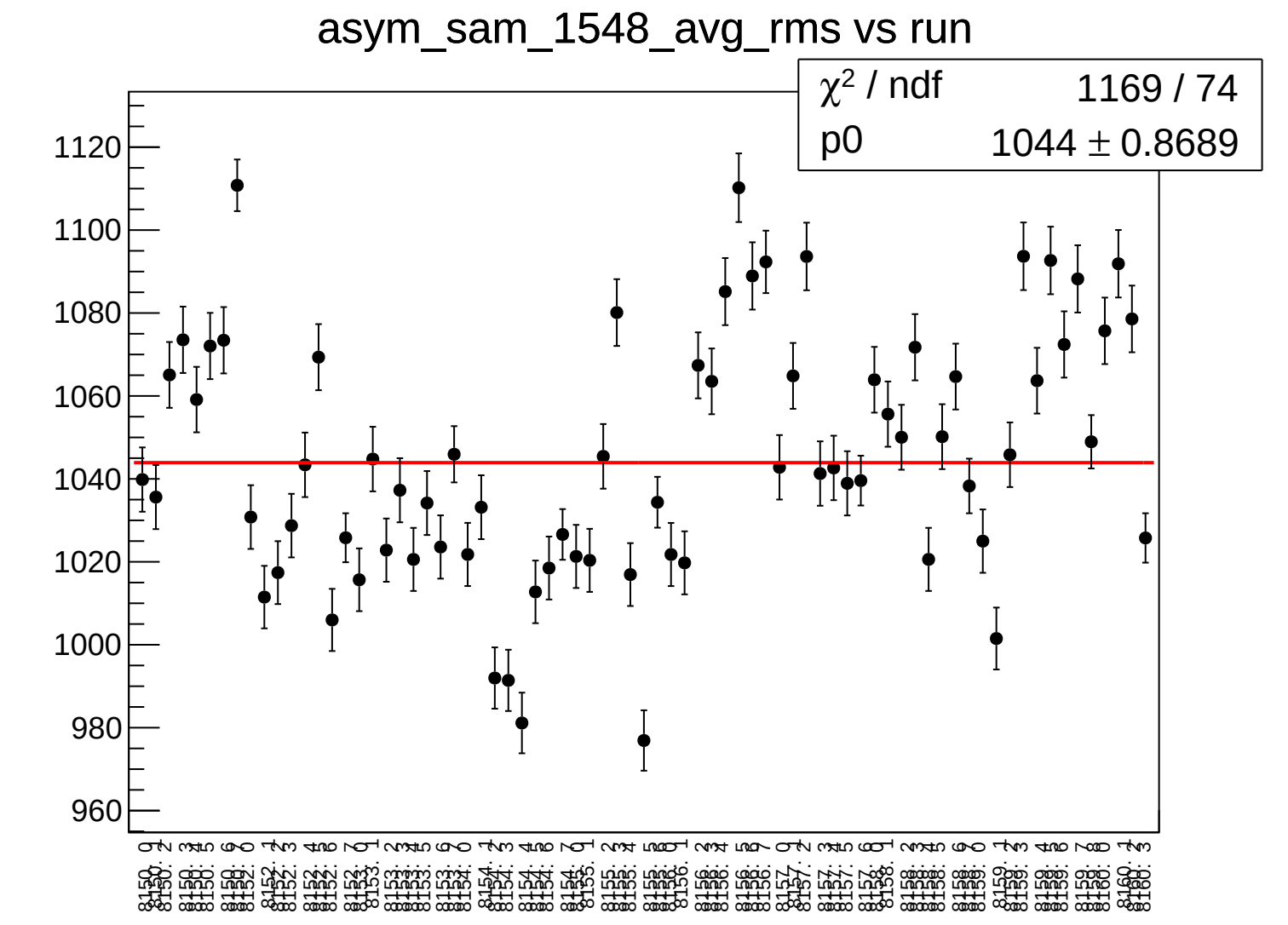

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 92.52 / 74
p0 −1757 ± 1224
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 75
Mean −2579
Std Dev 2634
3
2
1
0
−1
−2

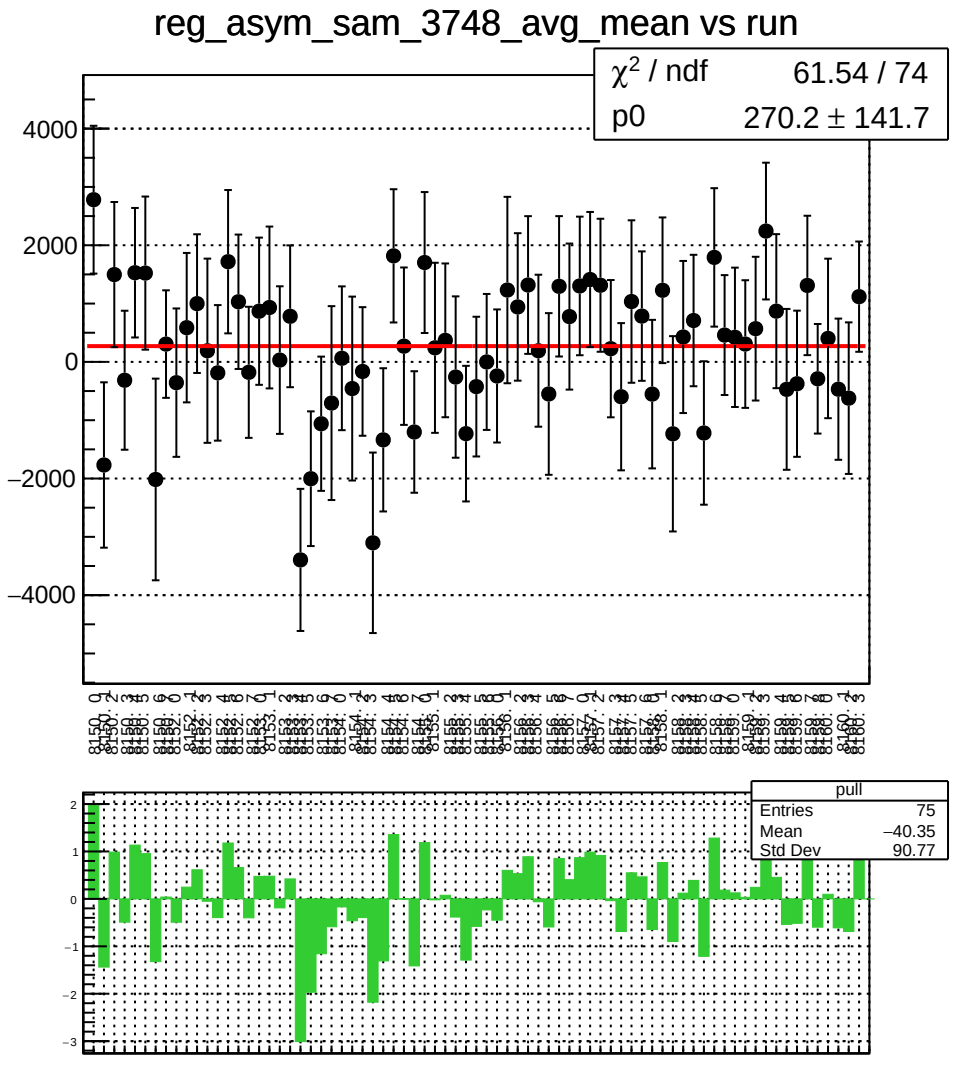

pull1D
Entries 75
Mean −0.0005642
Std Dev 1.111
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

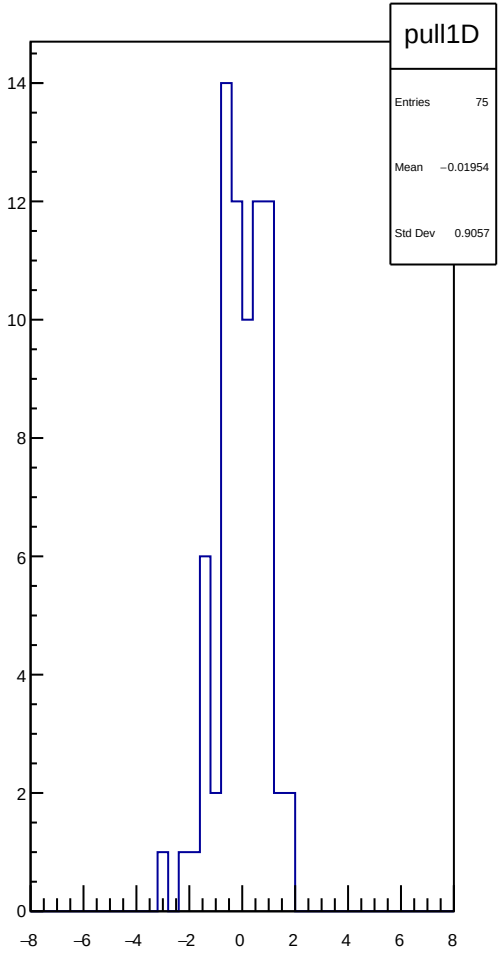

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 1185 / 74
p0 1040 ± 0.8653
1120
1100
1080
1060
1040
1020
1000
980
960

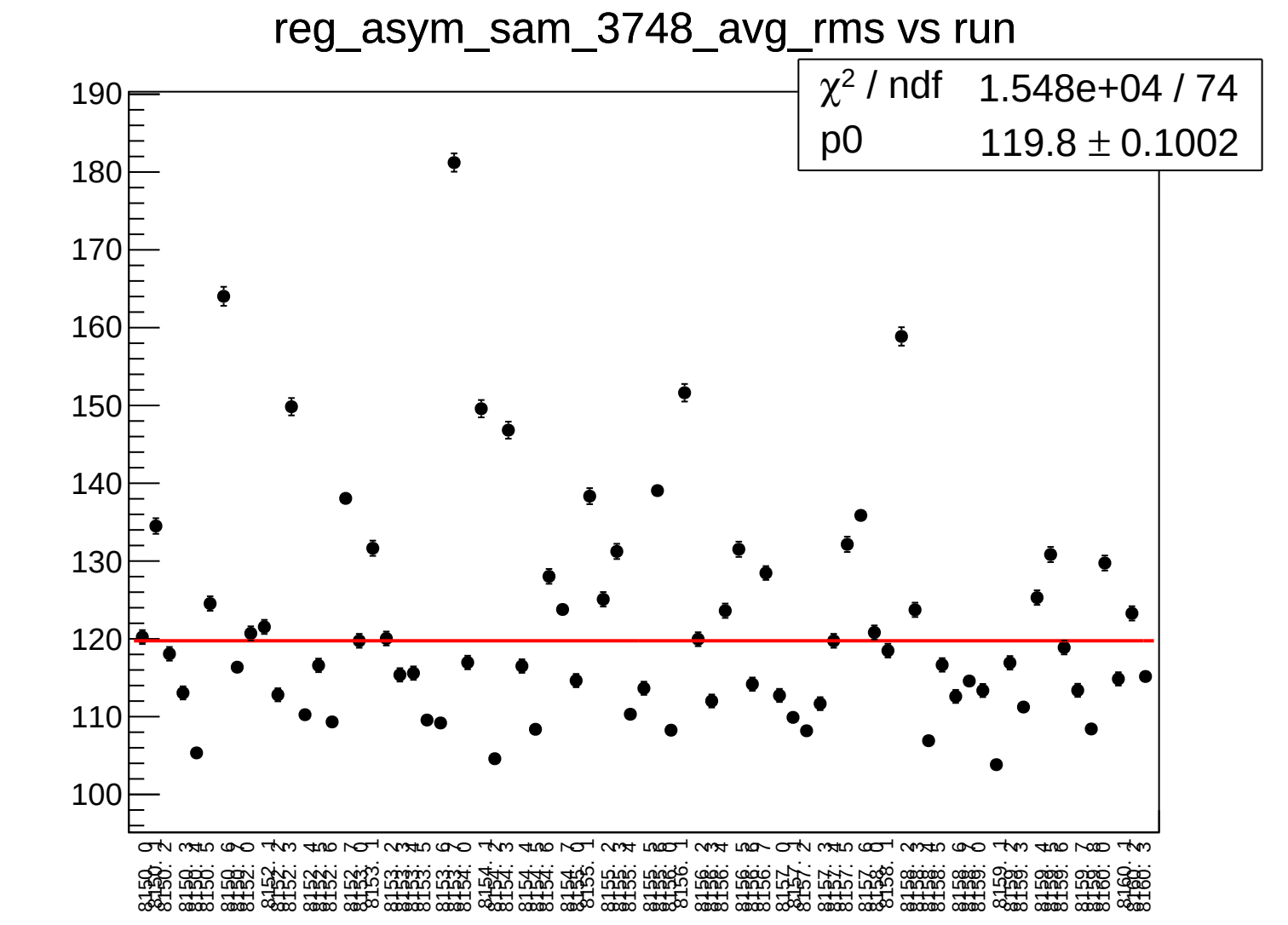

asym_sam_1548_avg_mean vs run
χ² / ndf 90.99 / 74
p0 2012 ± 1229
pull
Entries 75
Mean −641.5
Std Dev 695.6

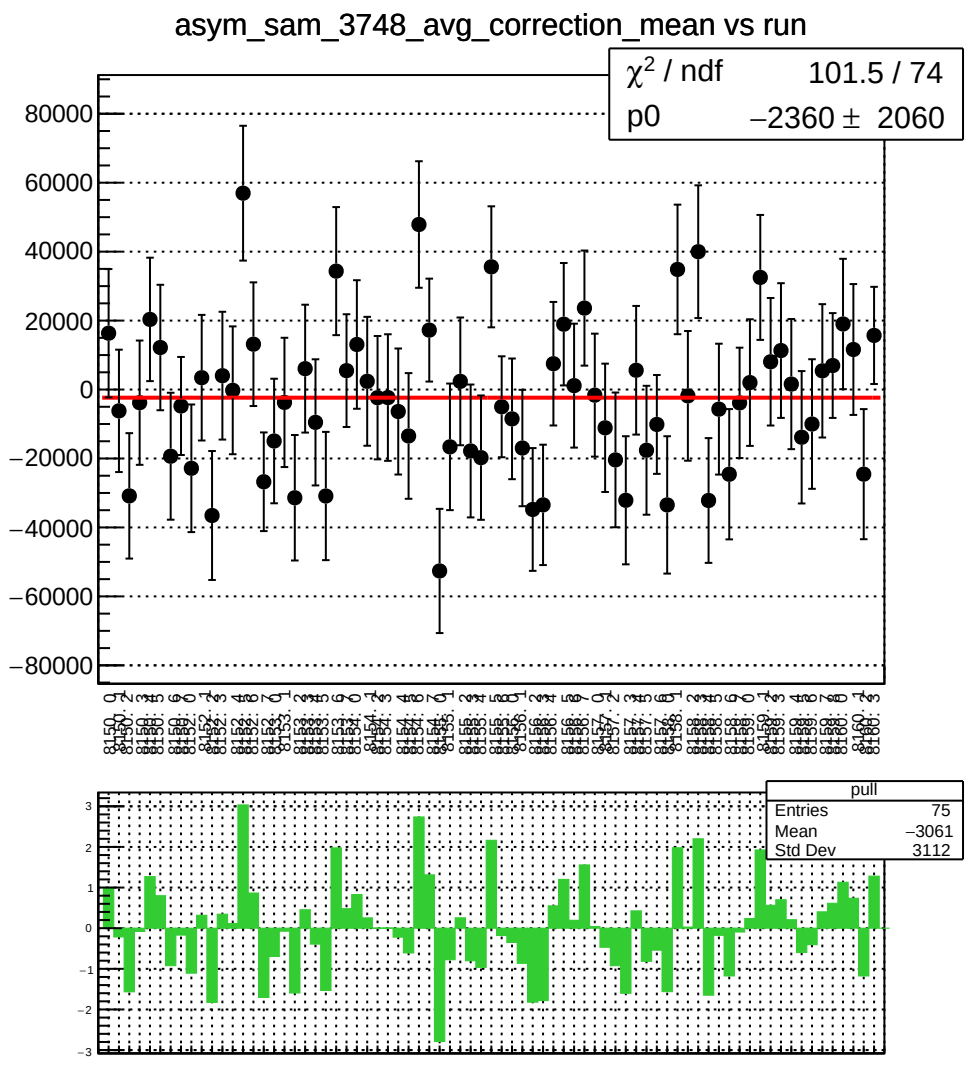

pull1D
Entries 75
Mean 0.002069
Std Dev 1.101

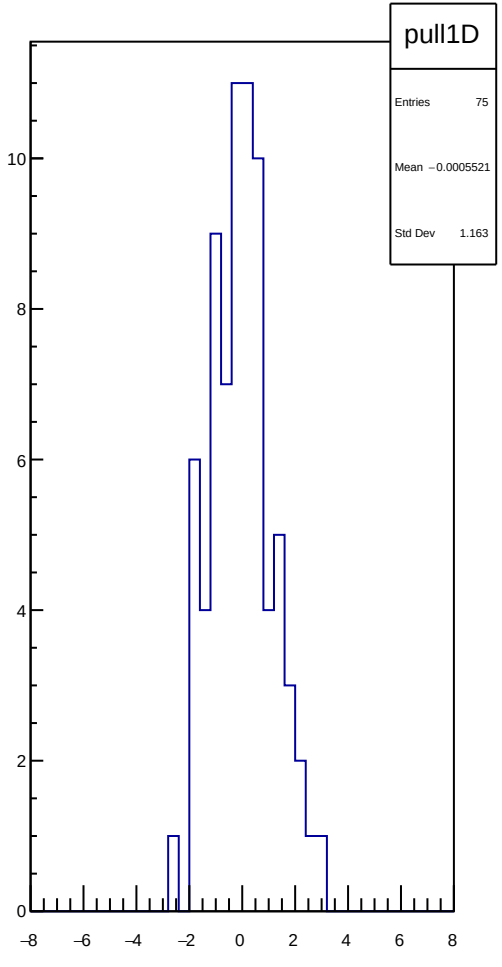

asym_sam_1548_avg_rms vs run
χ² / ndf 1169 / 74
p0 1044 ± 0.8689
1120
1100
1080
1060
1040
1020
1000
980
960

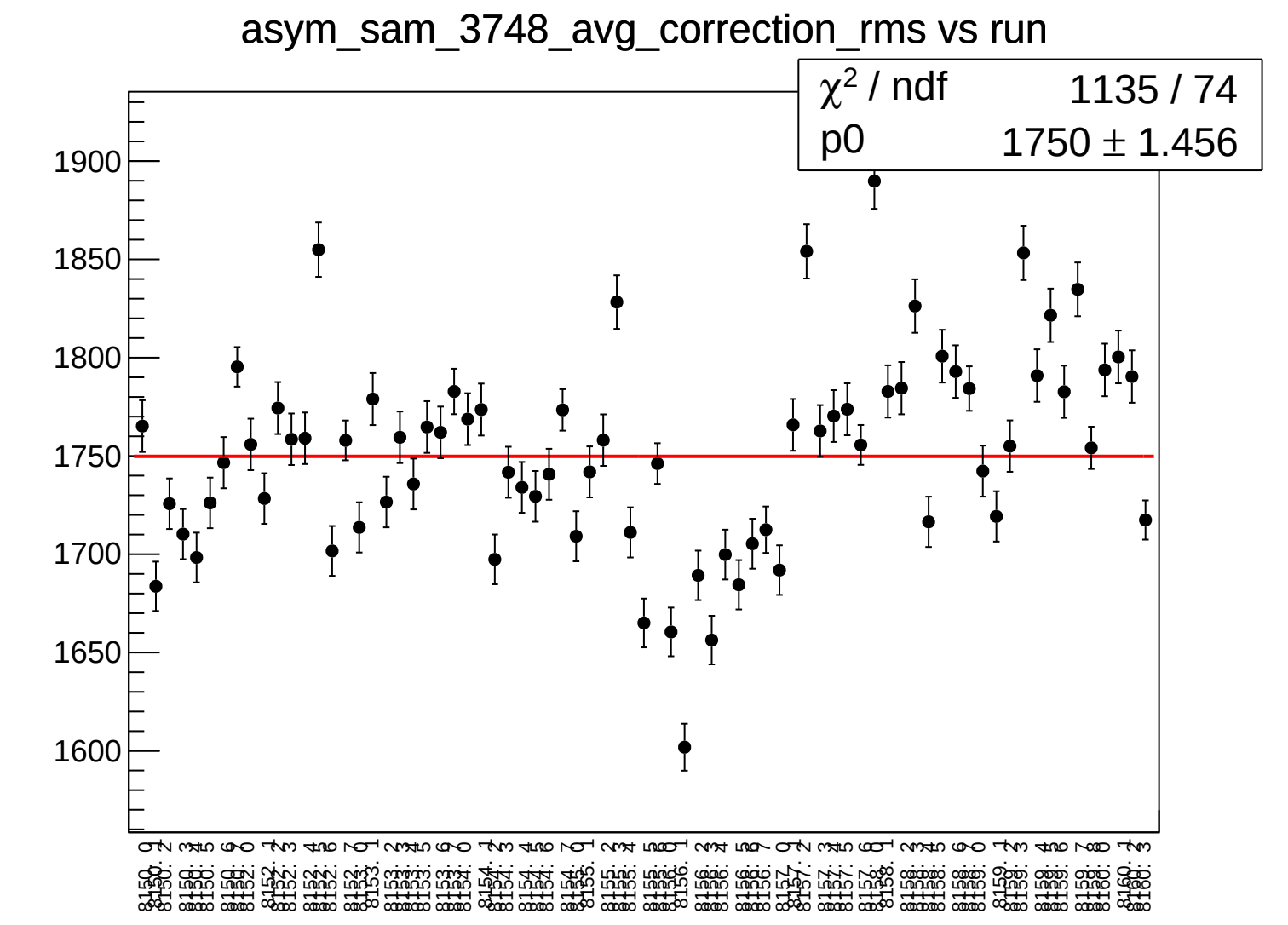

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 61.54 / 74
p0 270.2 ± 141.7
4000
2000
0
−2000
−4000
pull
Entries 75
Mean −40.35
Std Dev 90.77
2
1
0
−1
−2
−3

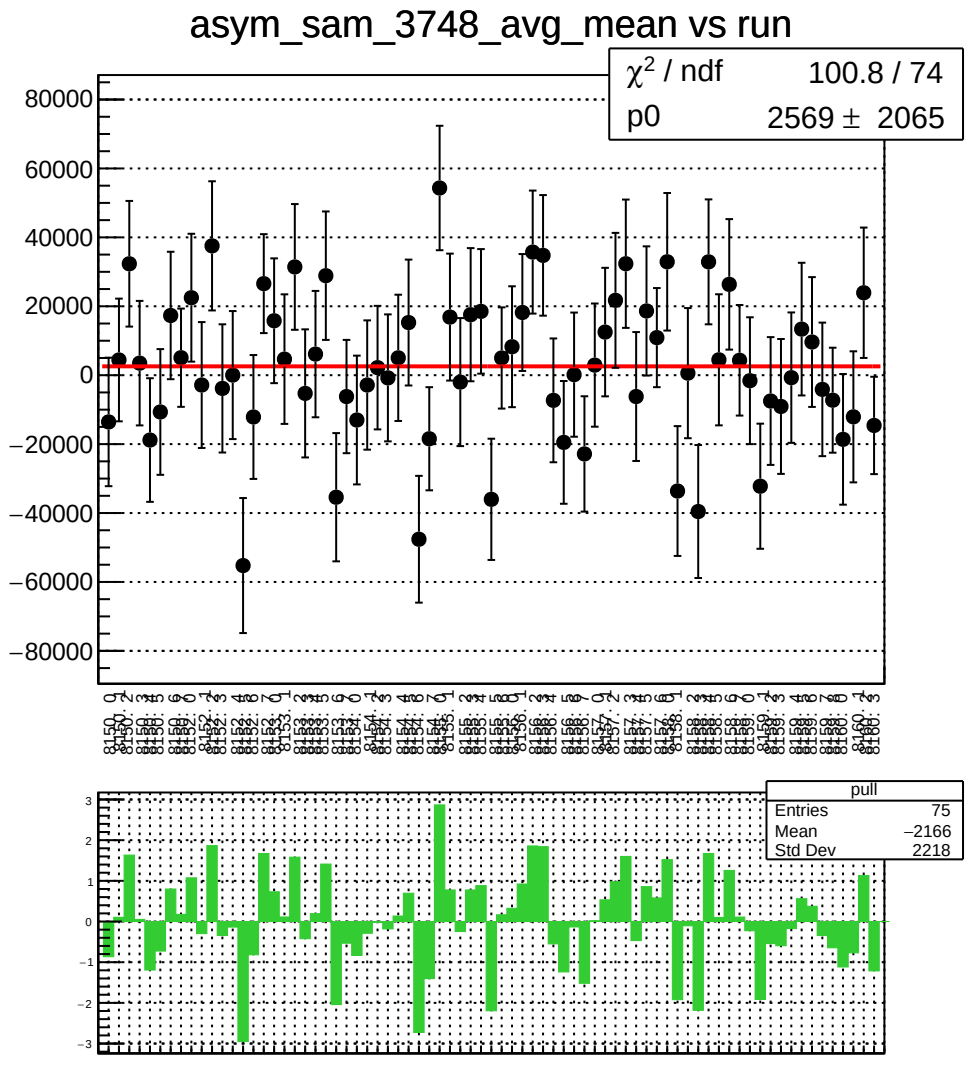

pull1D
Entries 75
Mean −0.01954
Std Dev 0.9057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

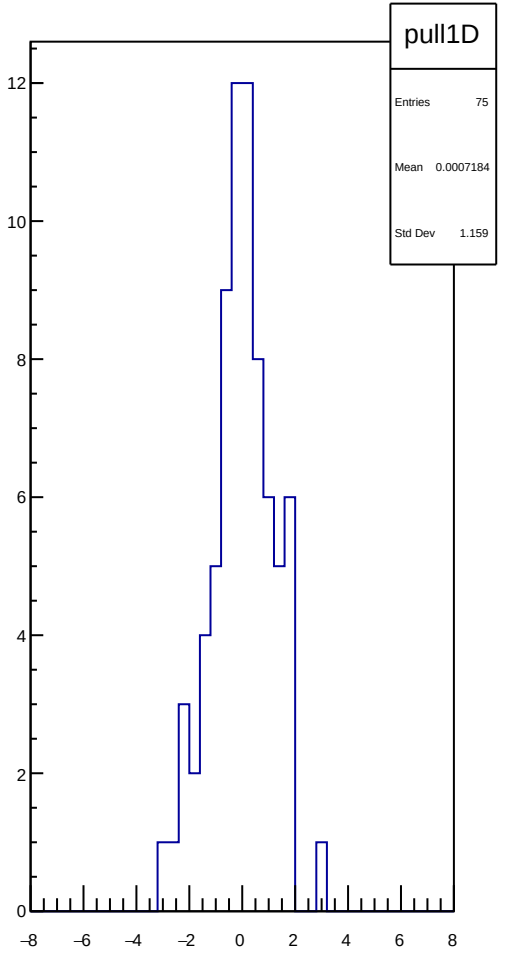

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 1.548e+04 / 74
p0 119.8 ± 0.1002
190
180
170
160
150
140
130
120
110
100

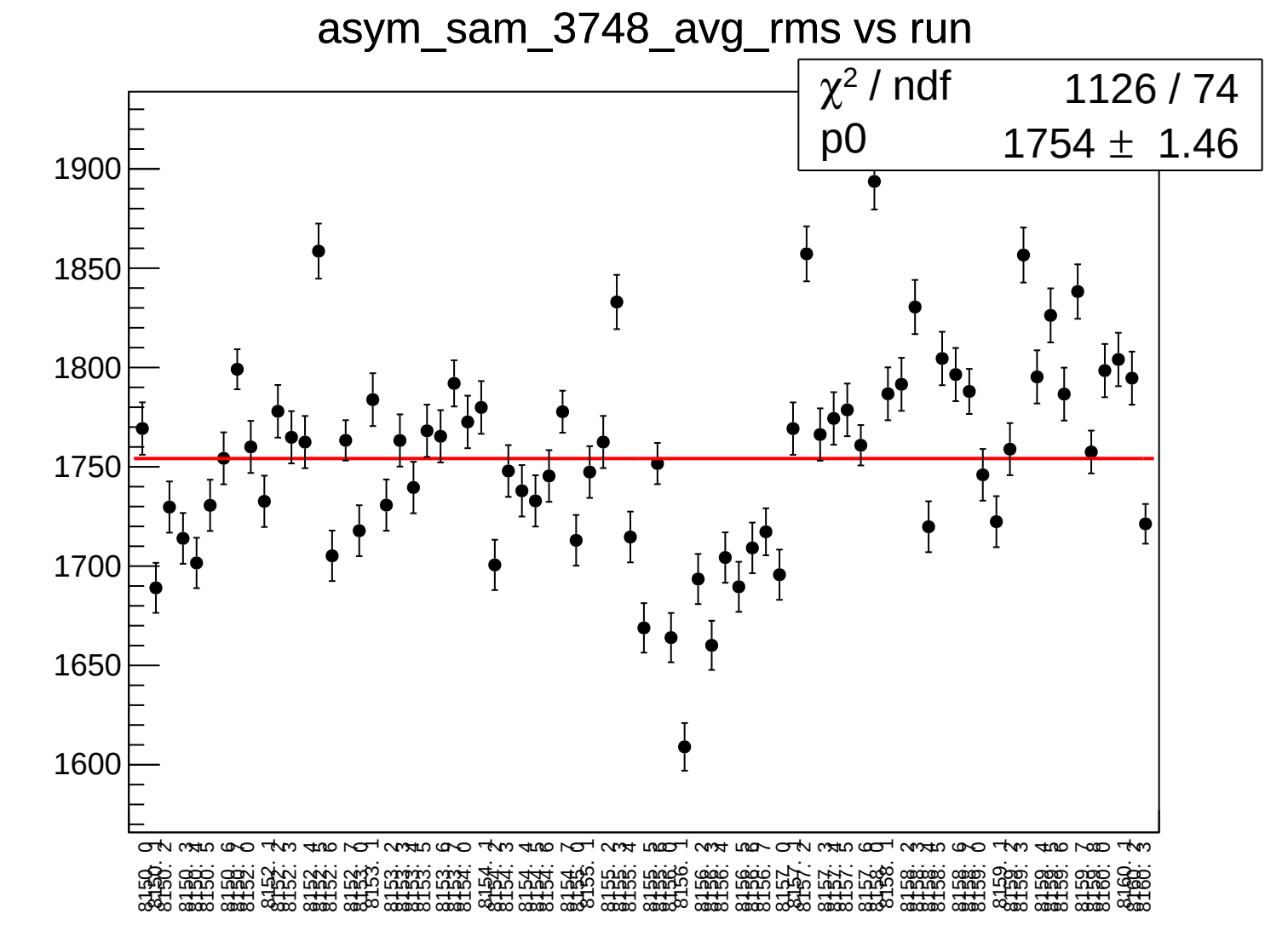

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 101.5 / 74
p0 −2360 ± 2060
pull
Entries 75
Mean −3061
Std Dev 3112

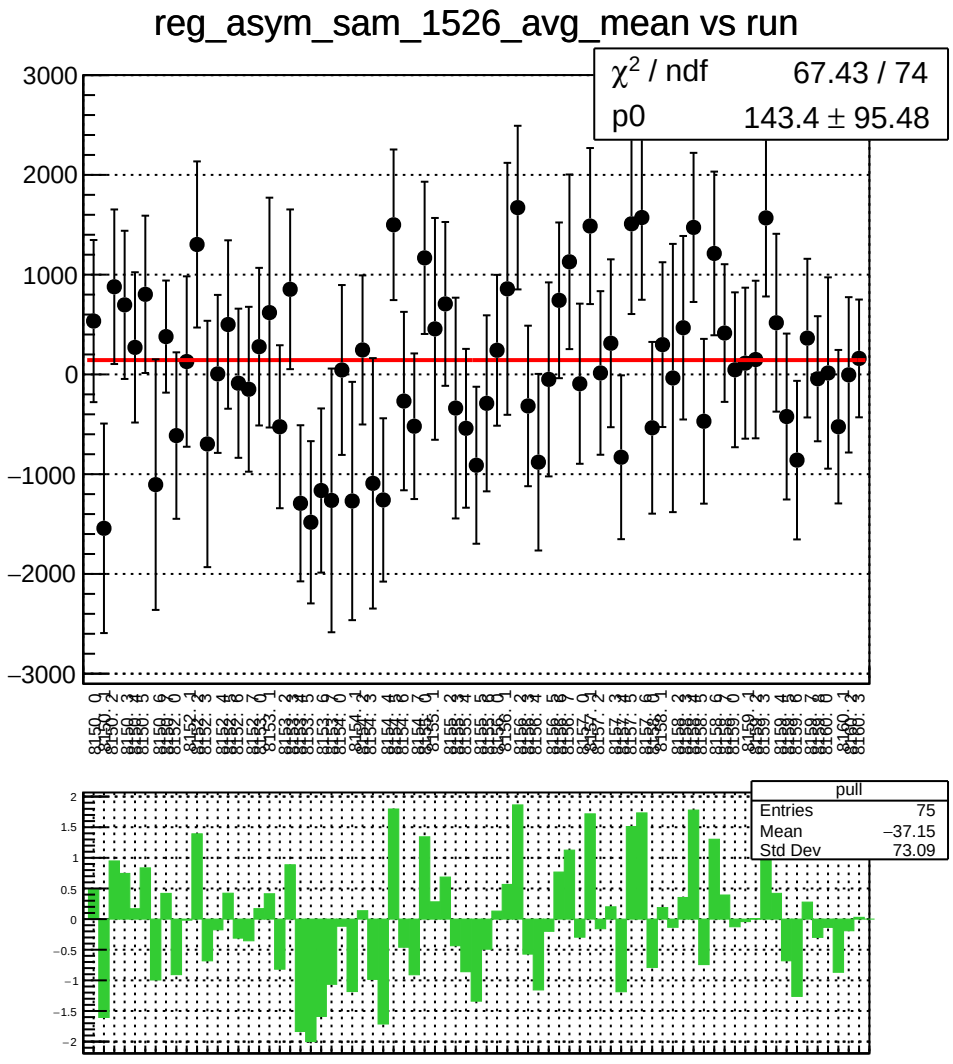

pull1D
Entries 75
Mean −0.0005521
Std Dev 1.163

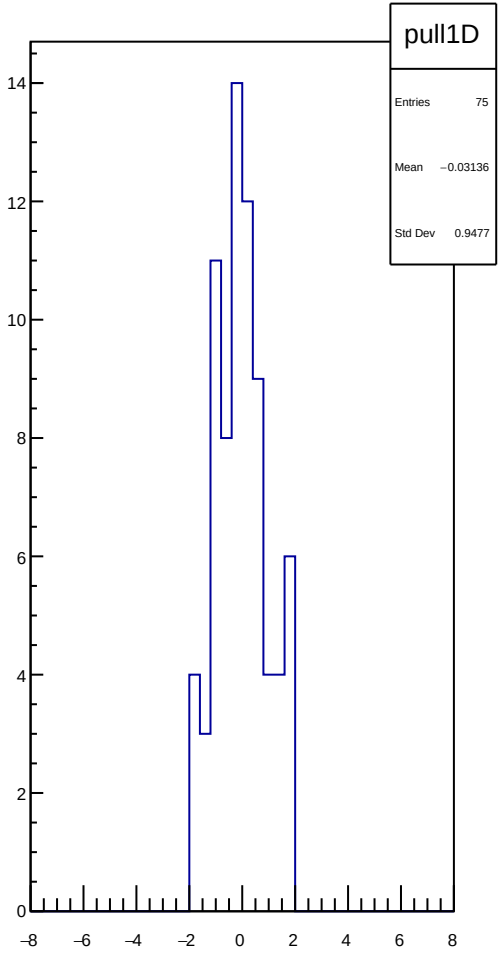

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 1135 / 74
p0 1750 ± 1.456
1900
1850
1800
1750
1700
1650
1600

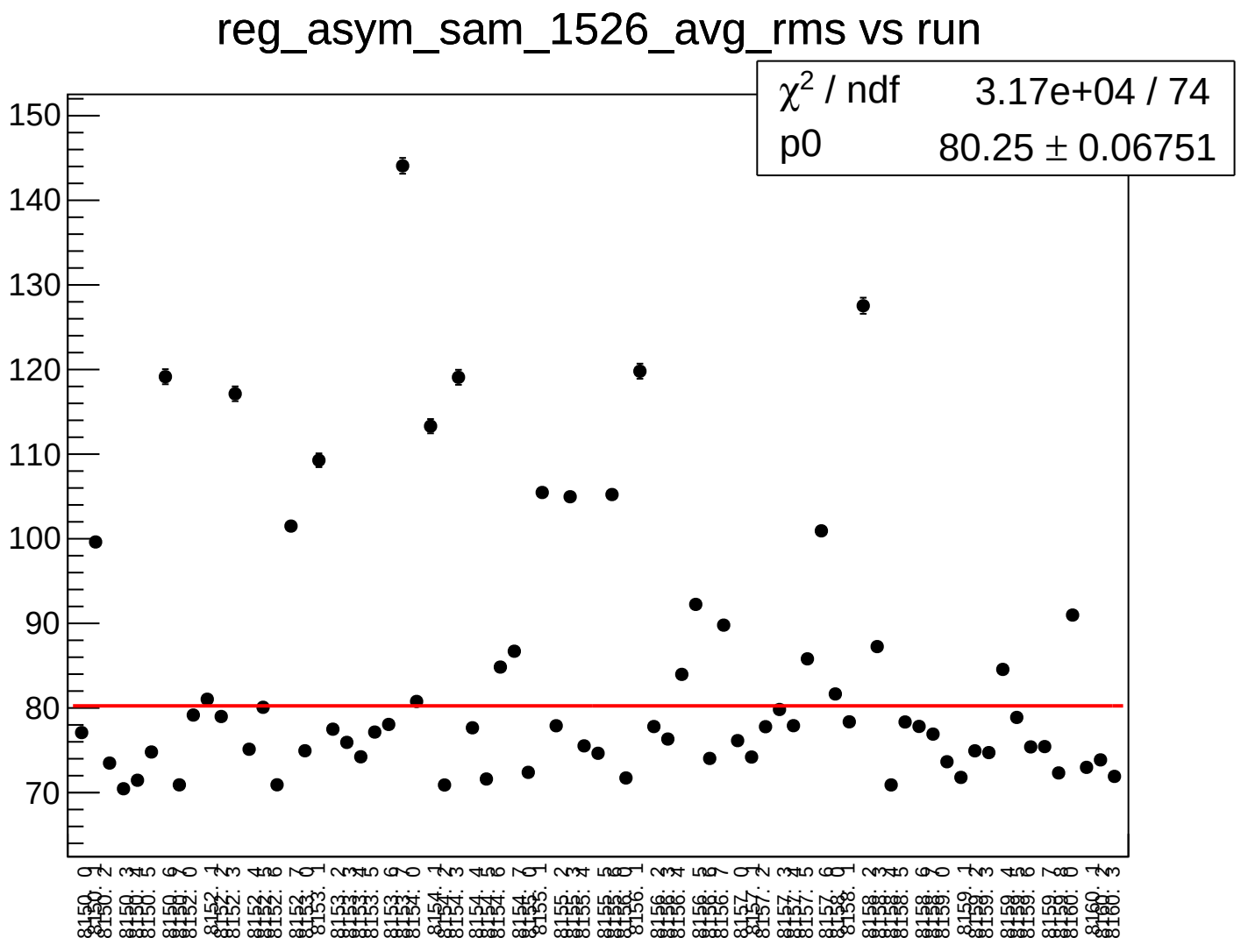

asym_sam_3748_avg_mean vs run
χ² / ndf 100.8 / 74
p0 2569 ± 2065
pull
Entries 75
Mean −2166
Std Dev 2218

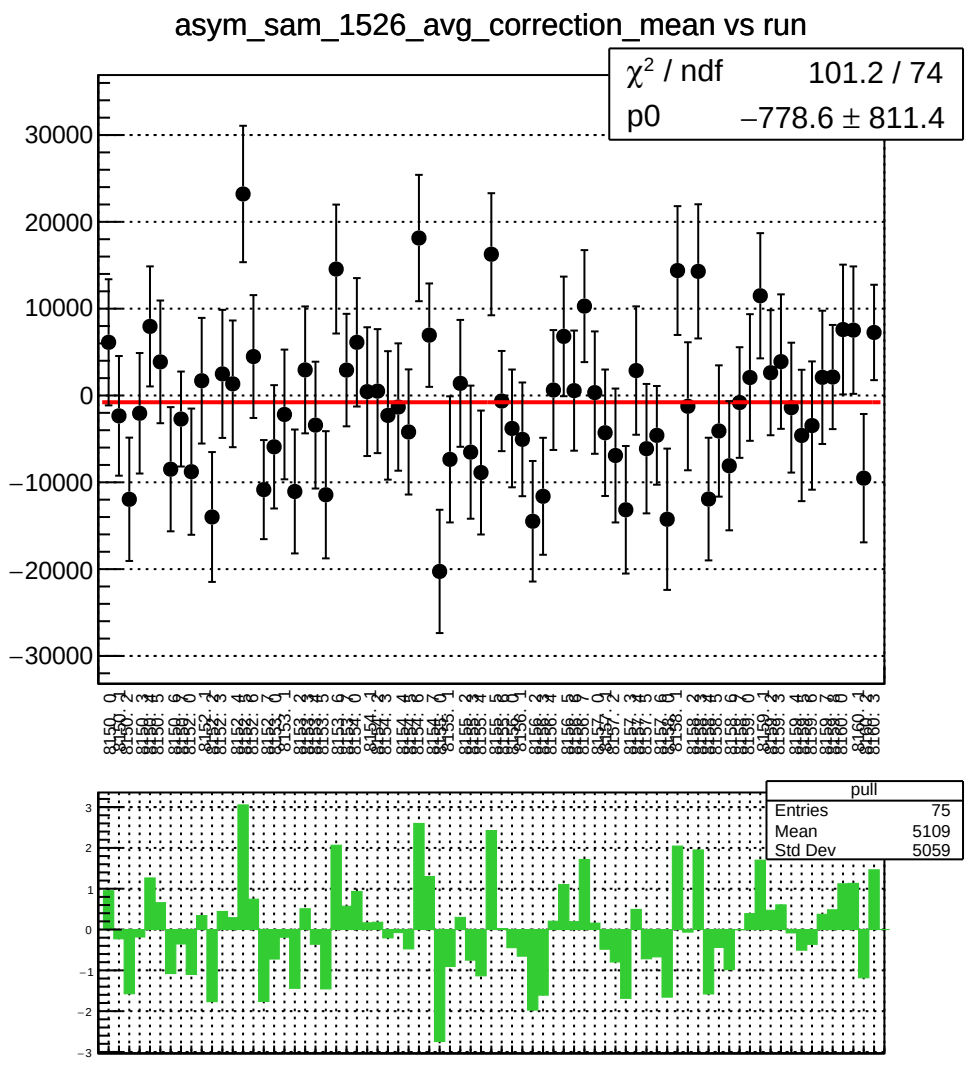

pull1D
Entries 75
Mean 0.0007184
Std Dev 1.159

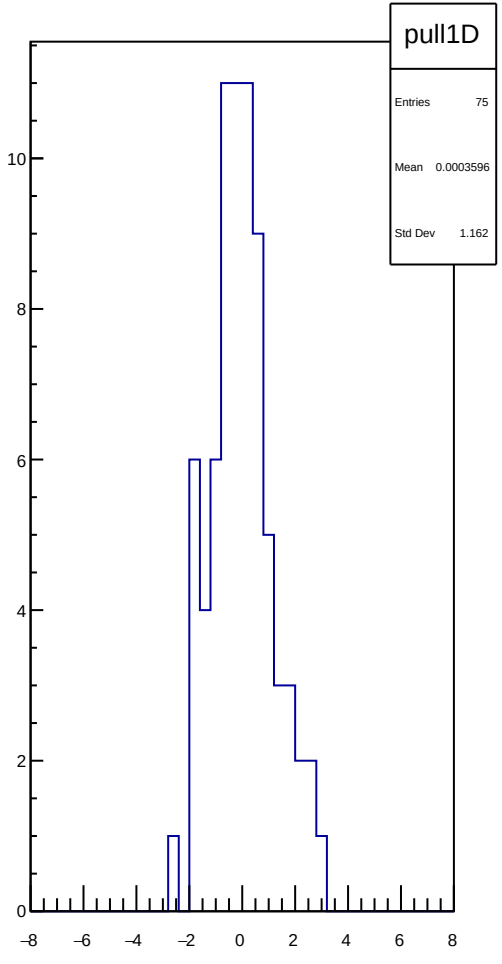

asym_sam_3748_avg_rms vs run
χ² / ndf 1126 / 74
p0 1754 ± 1.46
1900
1850
1800
1750
1700
1650
1600

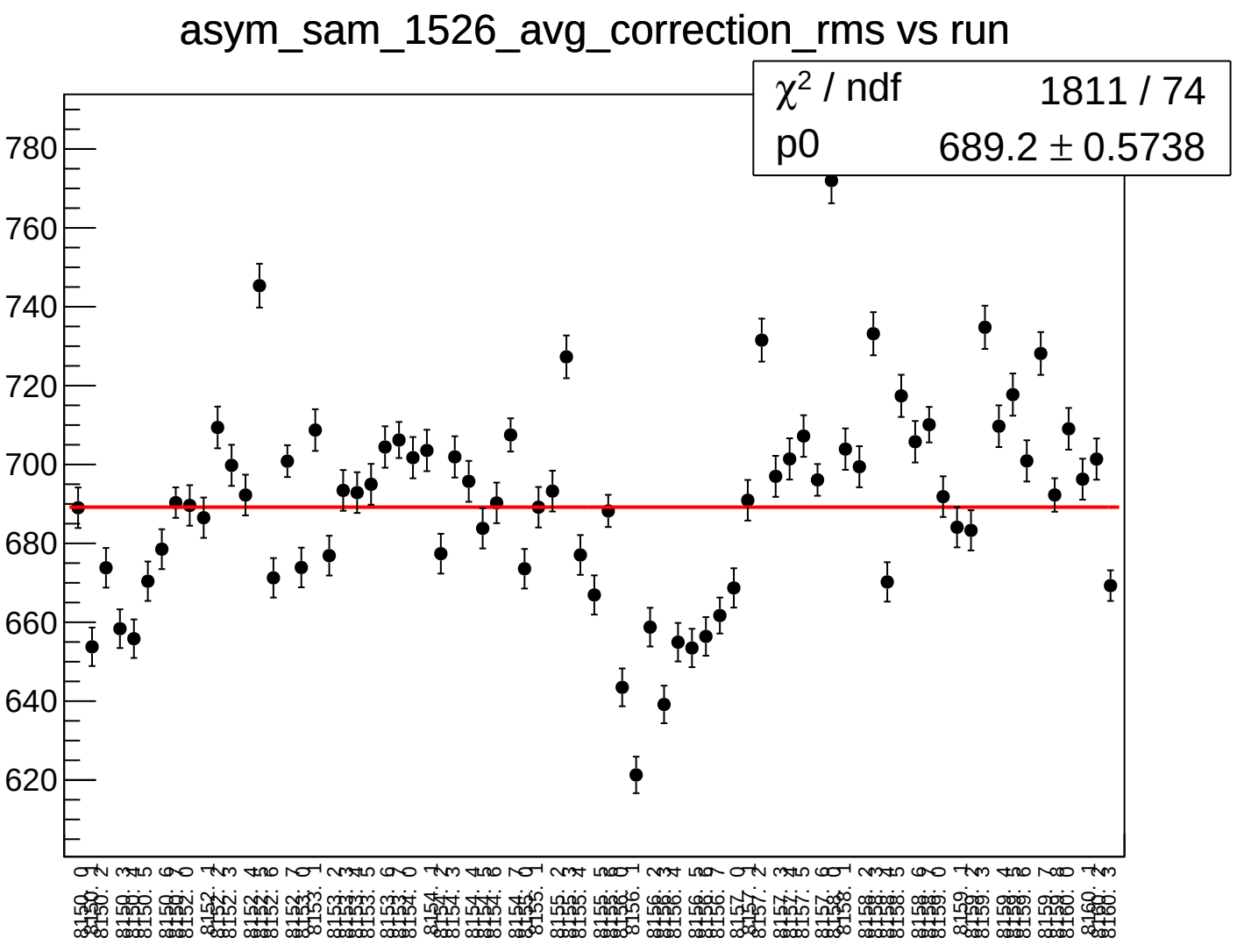

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 67.43 / 74
p0 143.4 ± 95.48
pull
Entries 75
Mean −37.15
Std Dev 73.09

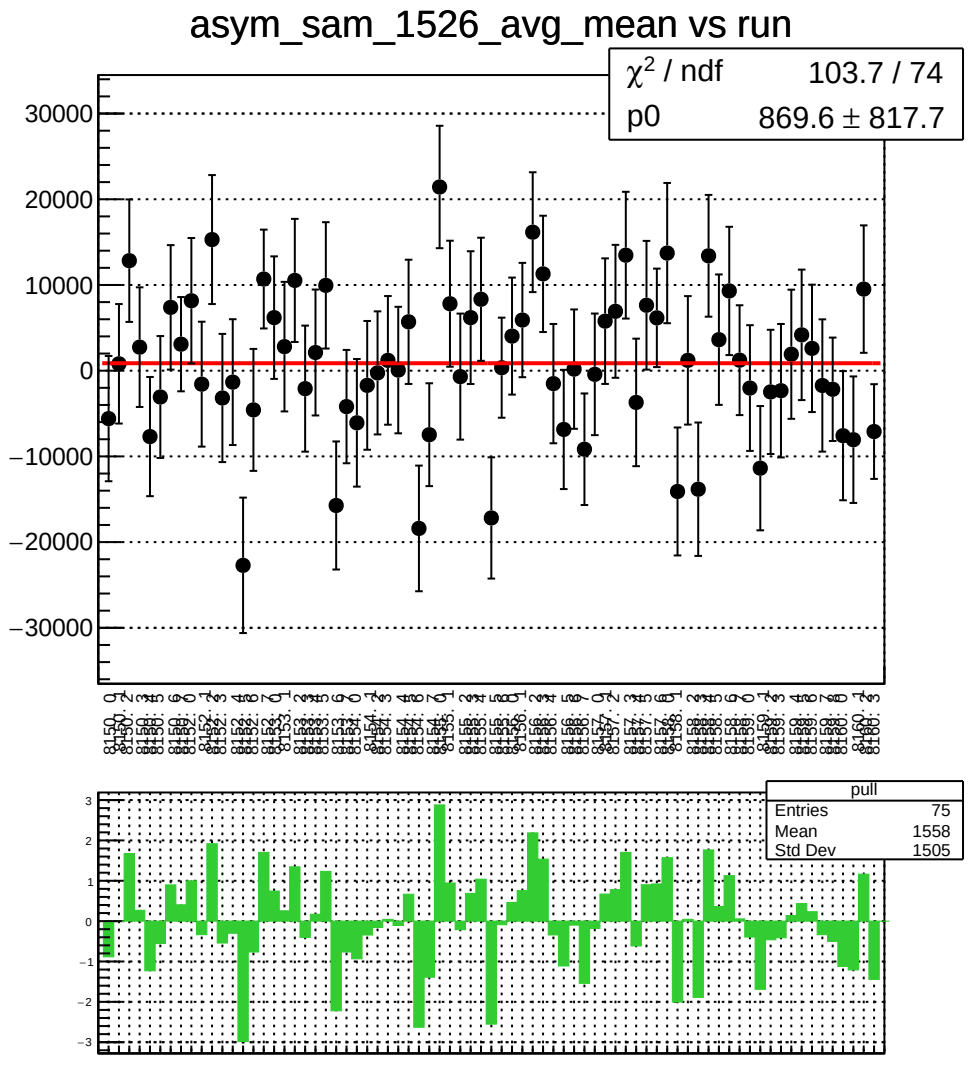

pull1D
Entries 75
Mean −0.03136
Std Dev 0.9477

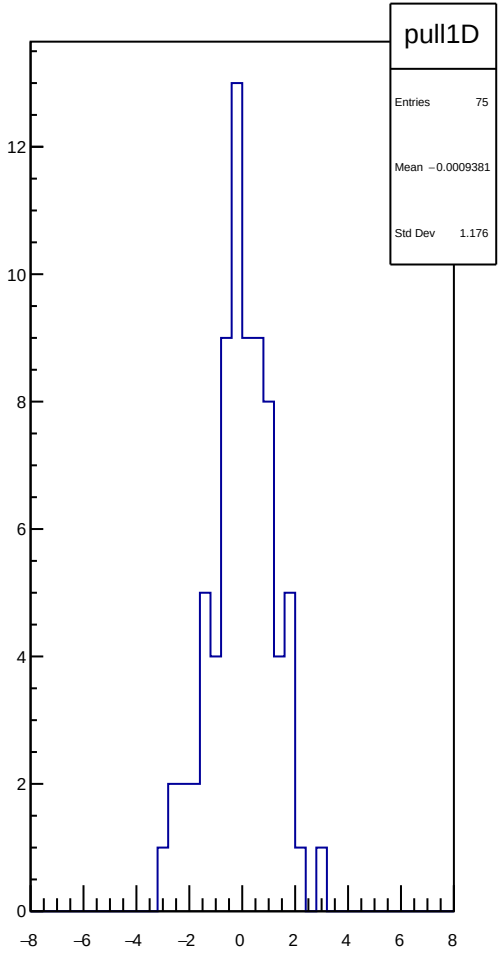

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 3.17e+04 / 74
p0 80.25 ± 0.06751
150
140
130
120
110
100
90
80
70

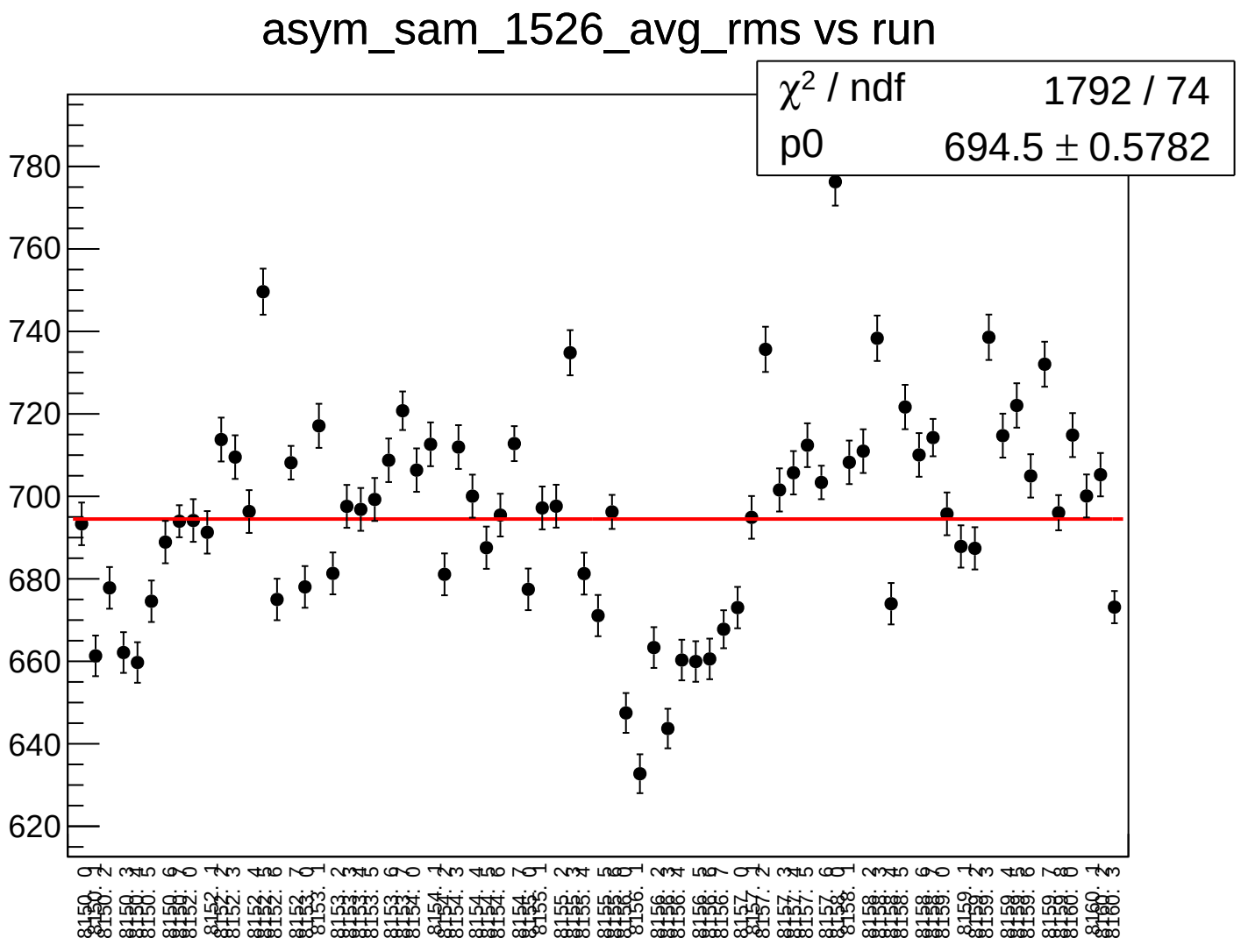

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 101.2 / 74
p0 −778.6 ± 811.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 75
Mean 5109
Std Dev 5059
3
2
1
0
−1
−2
−3

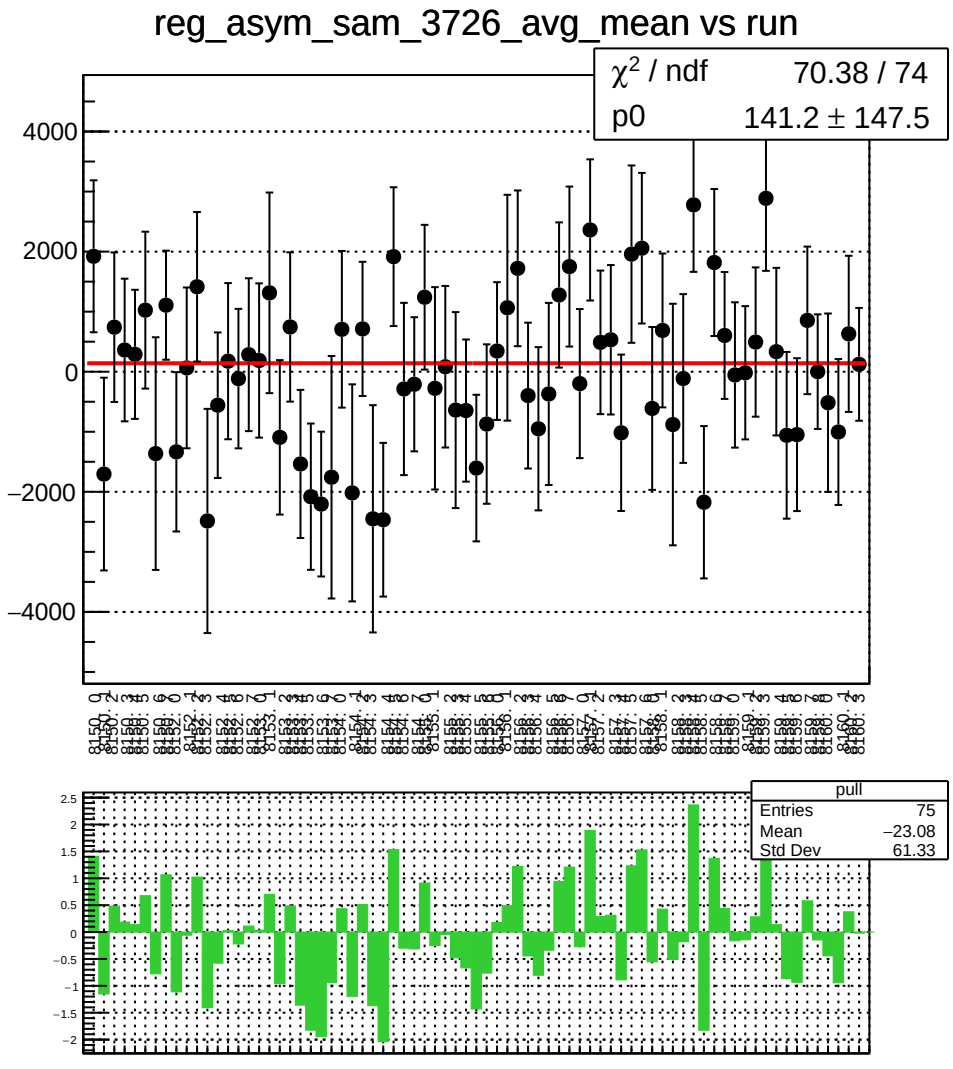

pull1D
Entries 75
Mean 0.0003596
Std Dev 1.162
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

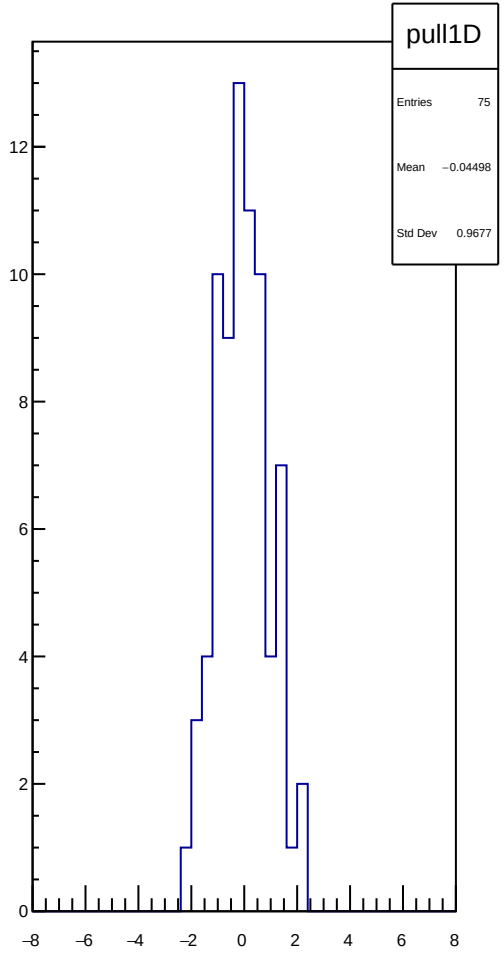

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 1811 / 74
p0 689.2 ± 0.5738
780
760
740
720
700
680
660
640
620

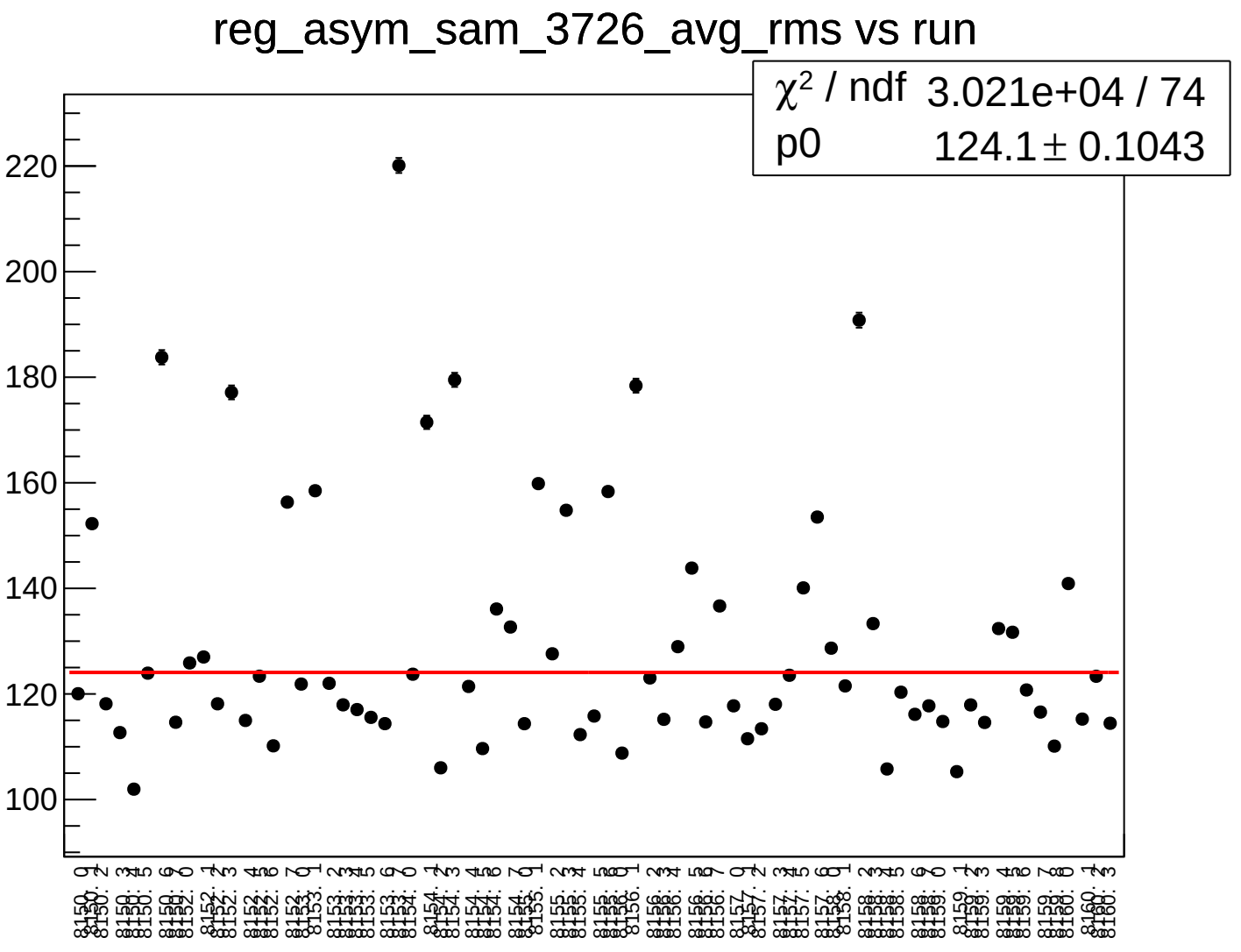

asym_sam_1526_avg_mean vs run
χ² / ndf 103.7 / 74
p0 869.6 ± 817.7
pull
Entries 75
Mean 1558
Std Dev 1505

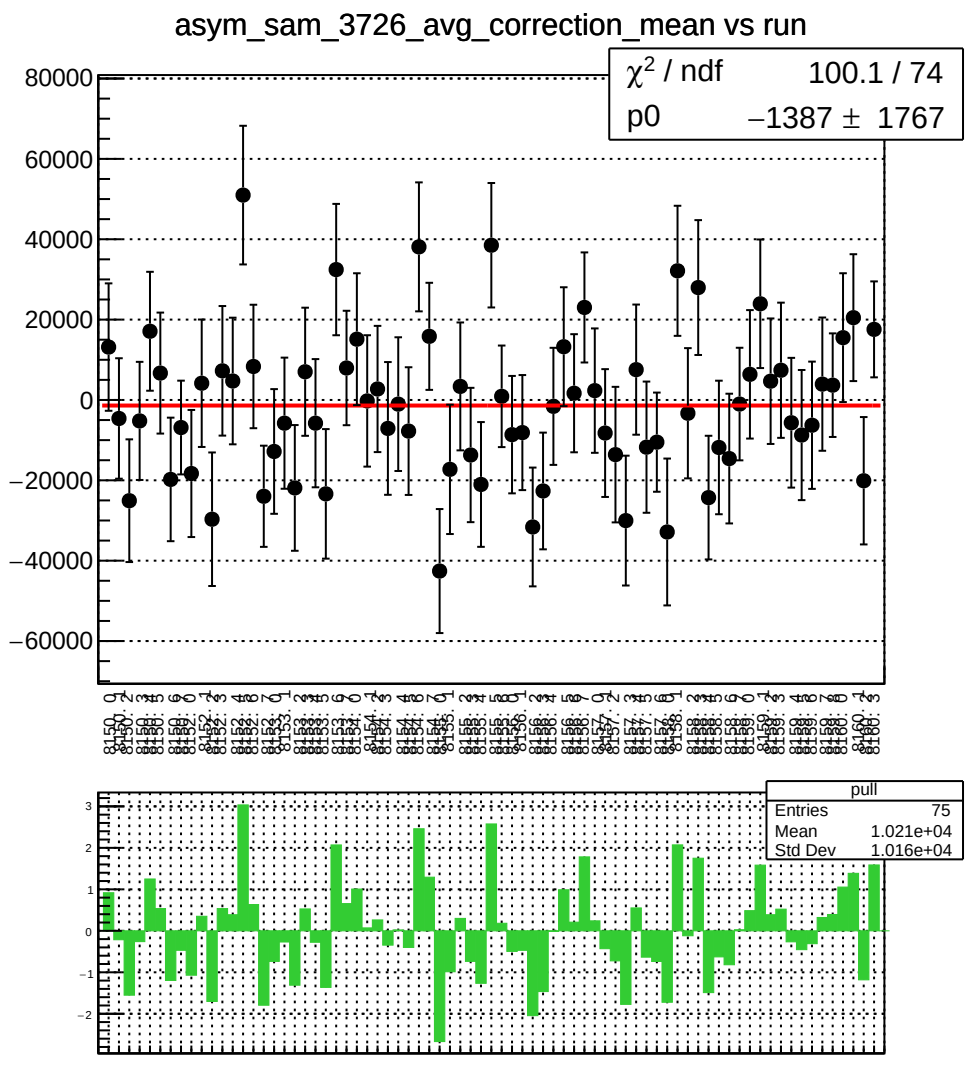

pull1D
Entries 75
Mean −0.0009381
Std Dev 1.176

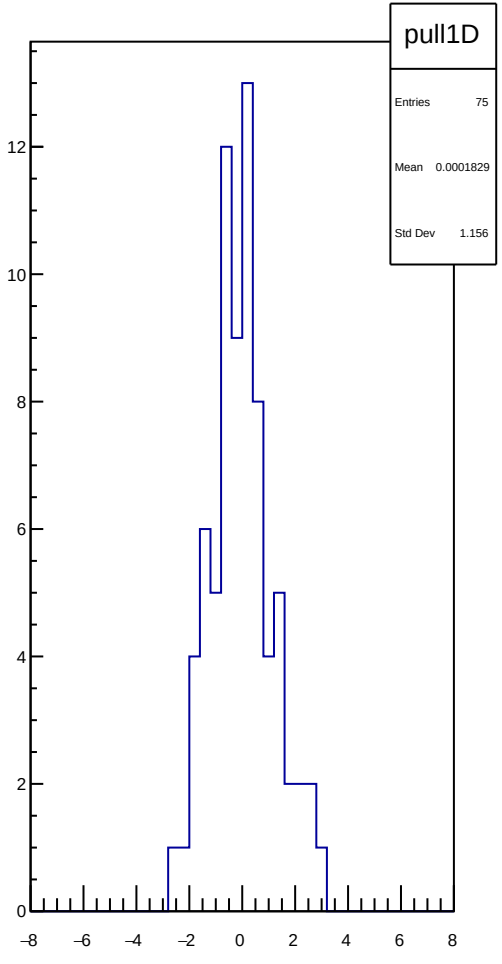

asym_sam_1526_avg_rms vs run
χ^2 / ndf 1792 / 74
p0 694.5 ± 0.5782
780
760
740
720
700
680
660
640
620

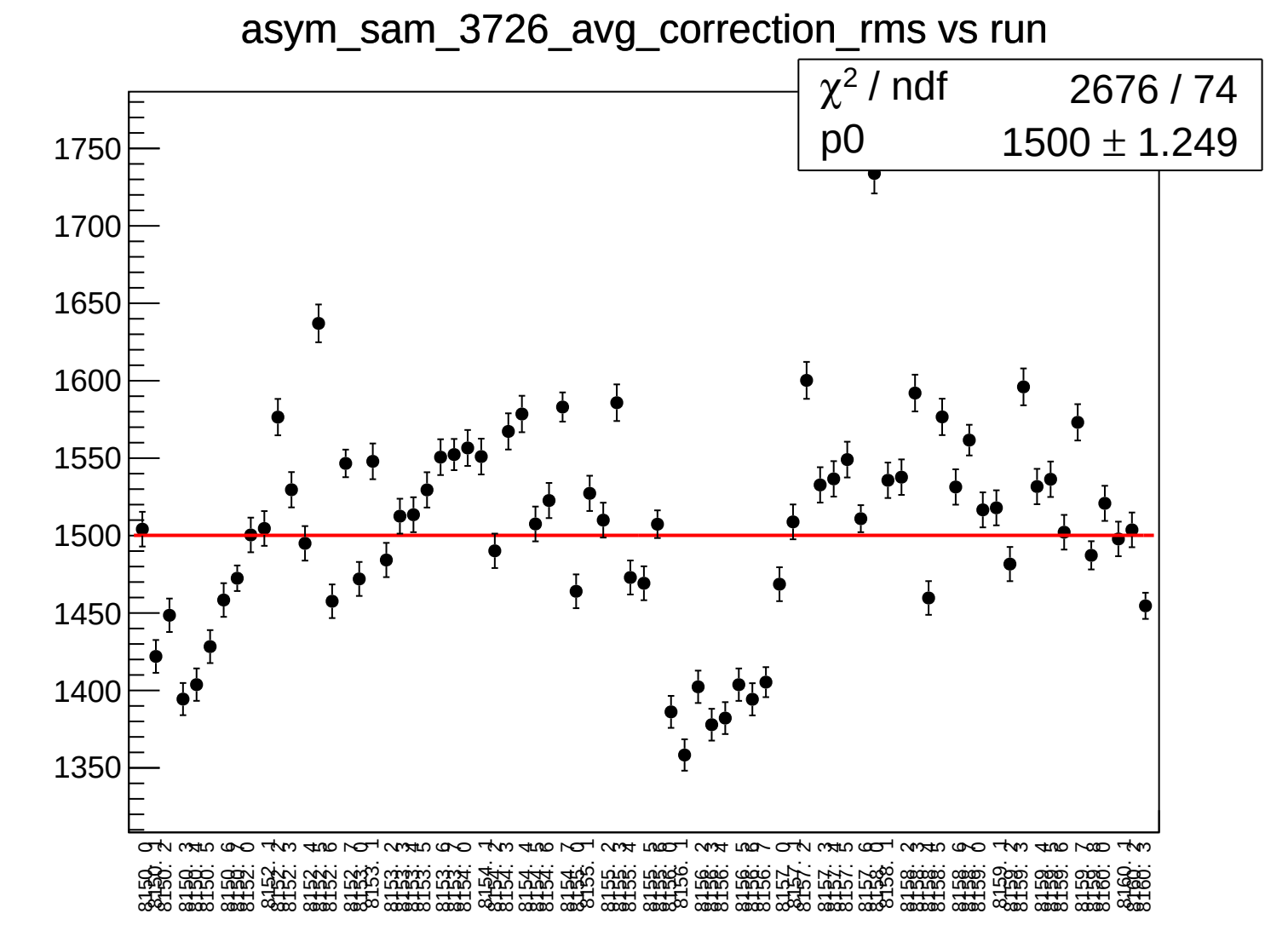

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 70.38 / 74
p0 141.2 ± 147.5
4000
2000
0
−2000
−4000
pull
Entries 75
Mean −23.08
Std Dev 61.33
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

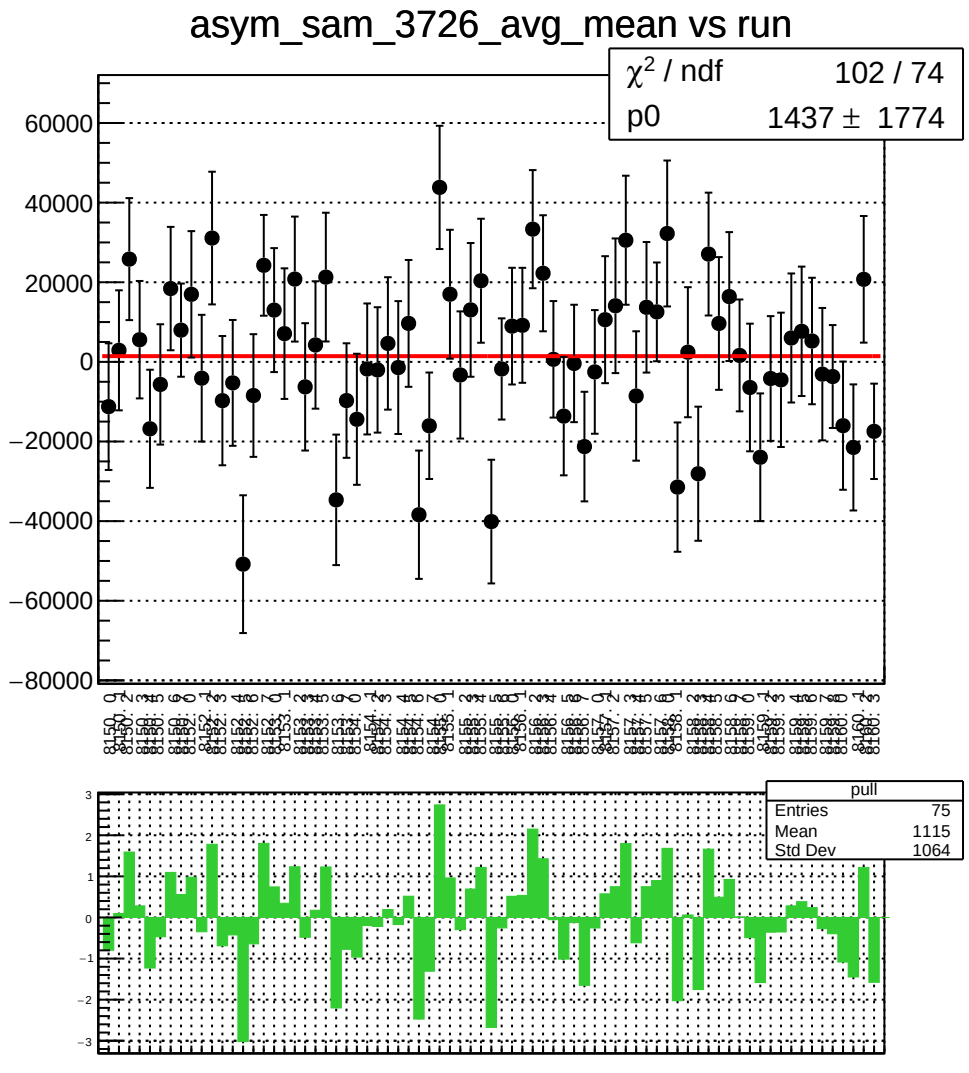

pull1D
Entries 75
Mean −0.04498
Std Dev 0.9677
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

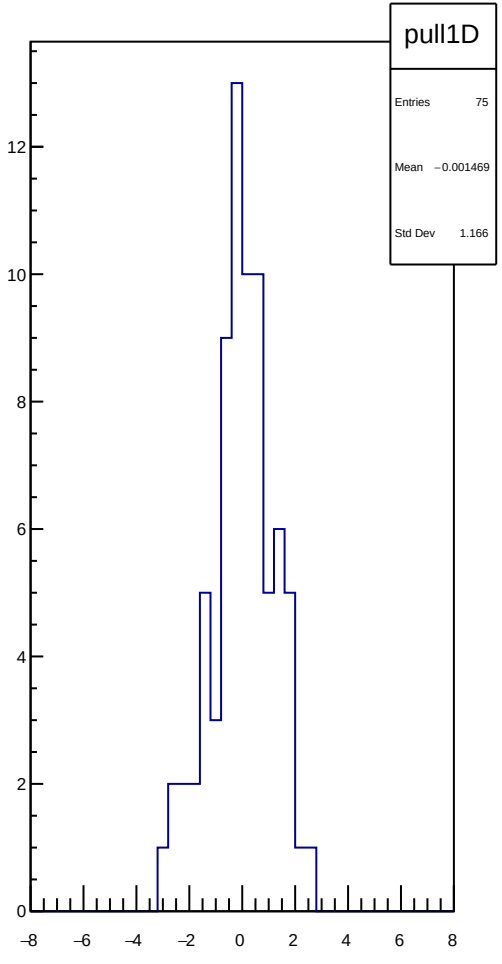

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 3.021e+04 / 74
p0 124.1 ± 0.1043
220
200
180
160
140
120
100

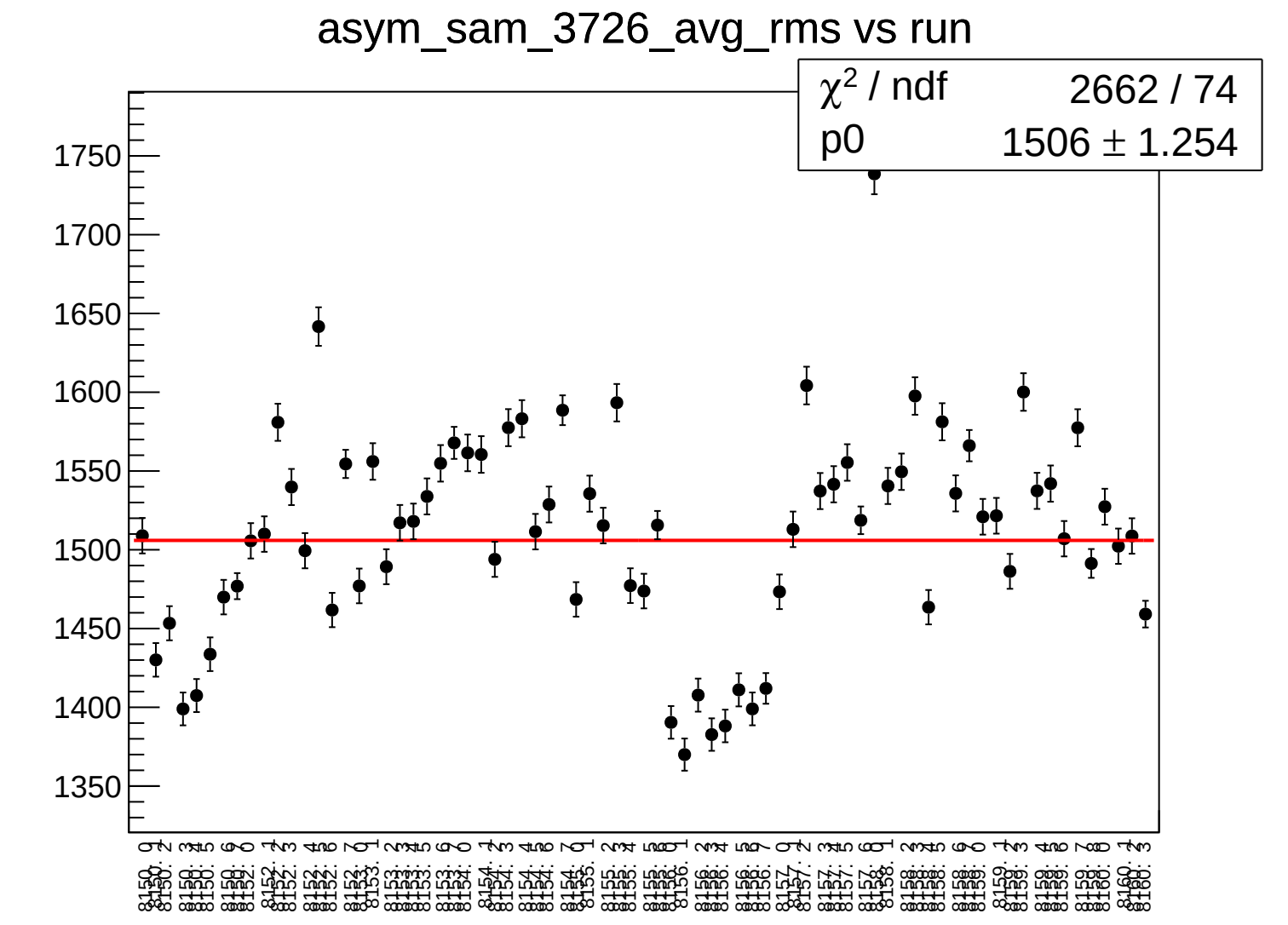

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 100.1 / 74
p0 −1387 ± 1767
pull
Entries 75
Mean 1.021e+04
Std Dev 1.016e+04

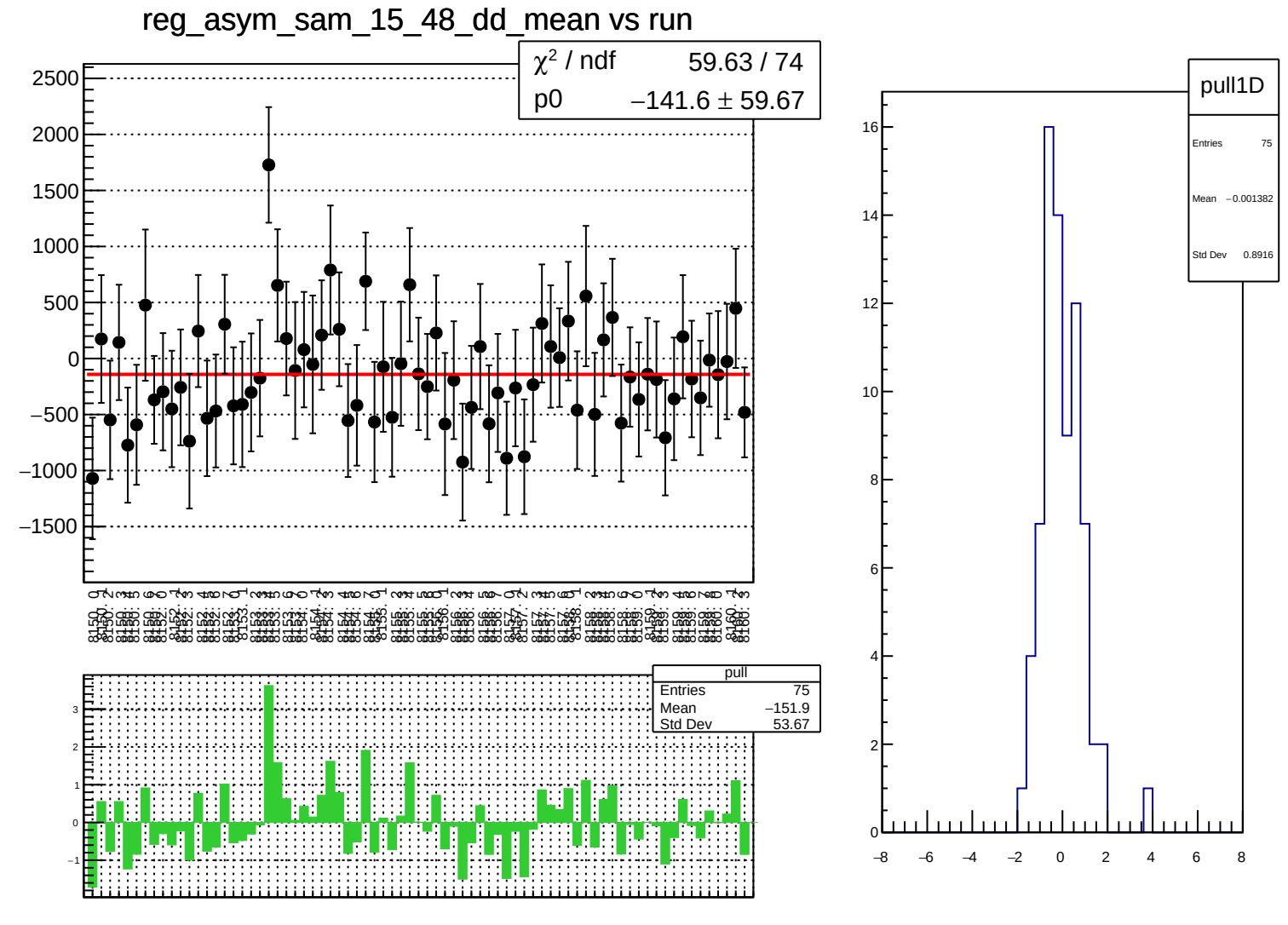

pull1D
Entries 75
Mean 0.0001829
Std Dev 1.156

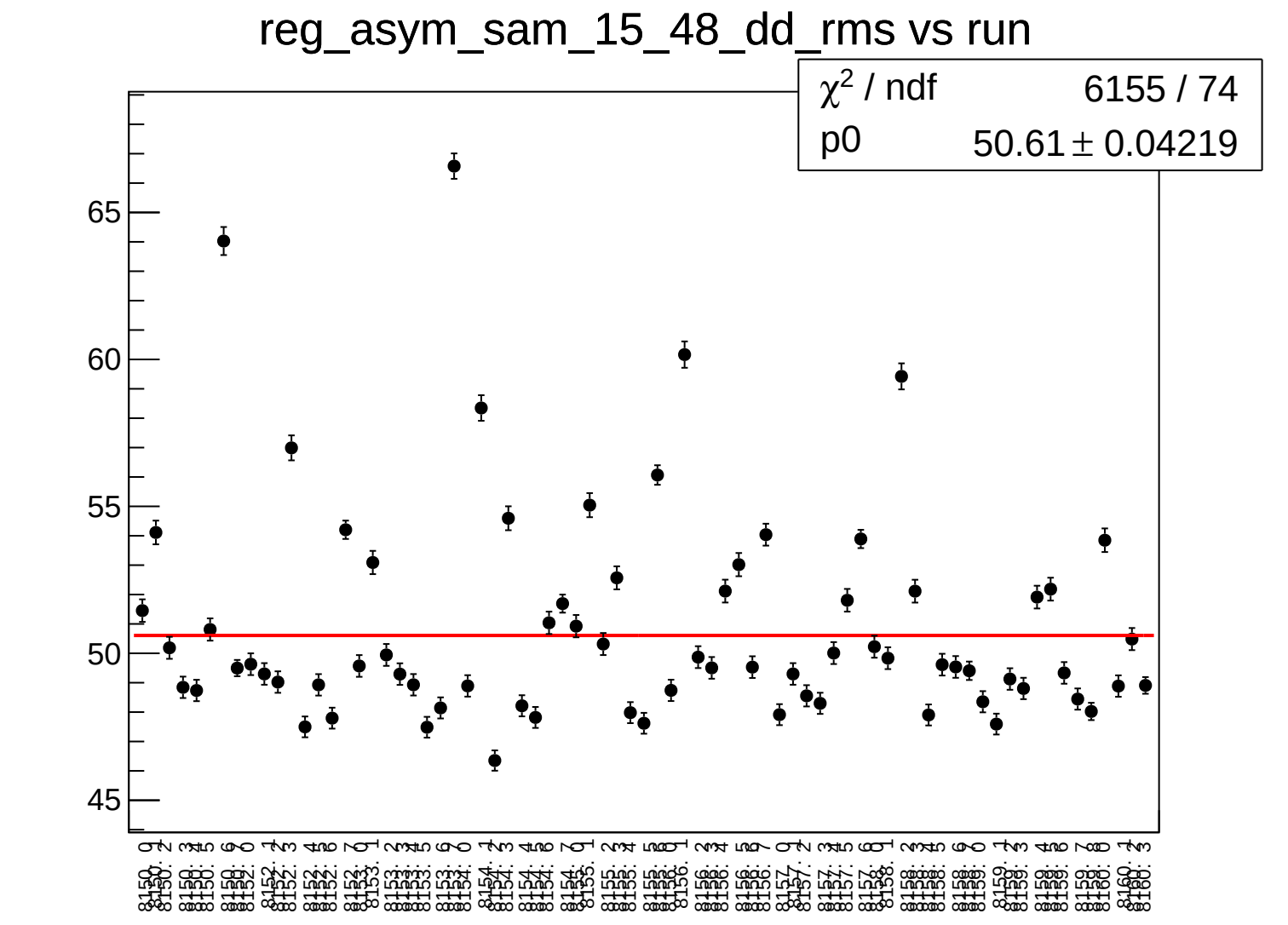

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 2676 / 74
p0 1500 ± 1.249
1750
1700
1650
1600
1550
1500
1450
1400
1350

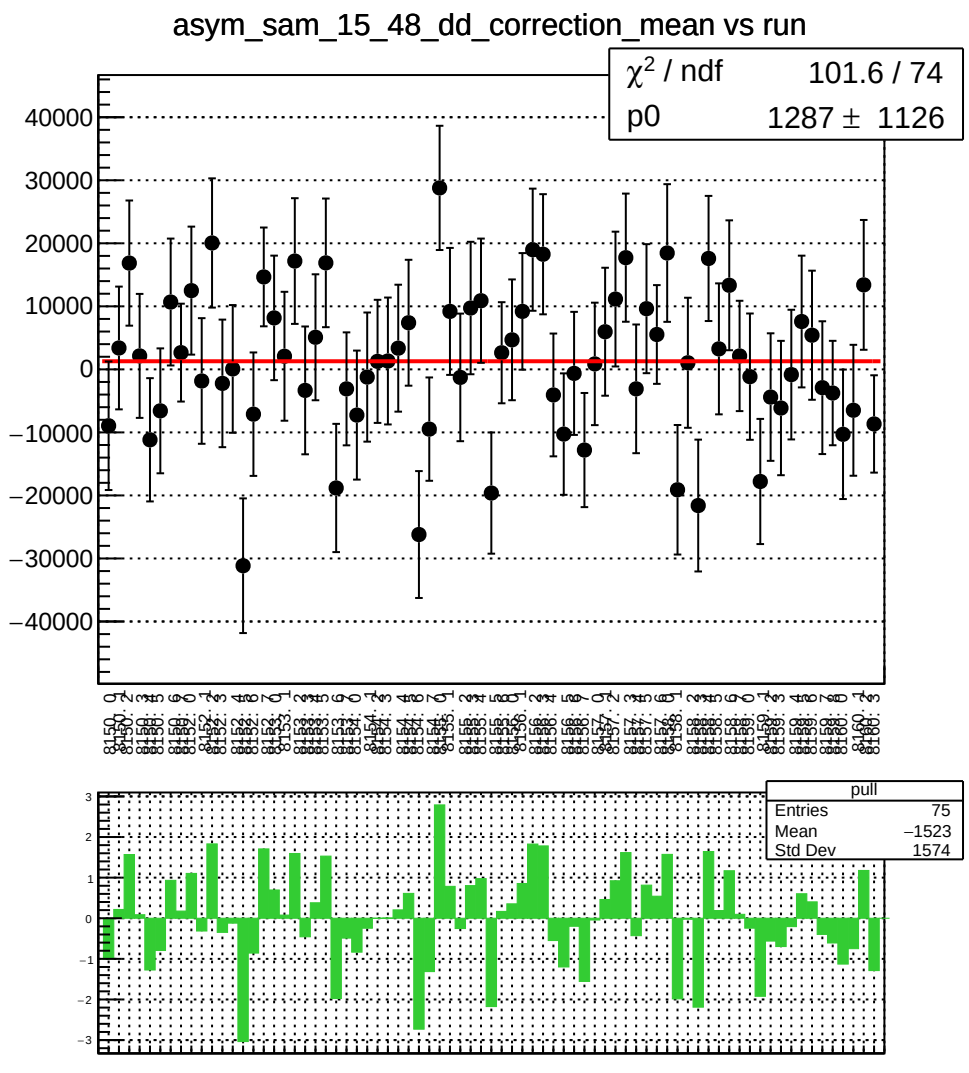

asym_sam_3726_avg_mean vs run
χ² / ndf 102 / 74
p0 1437 ± 1774
pull
Entries 75
Mean 1115
Std Dev 1064

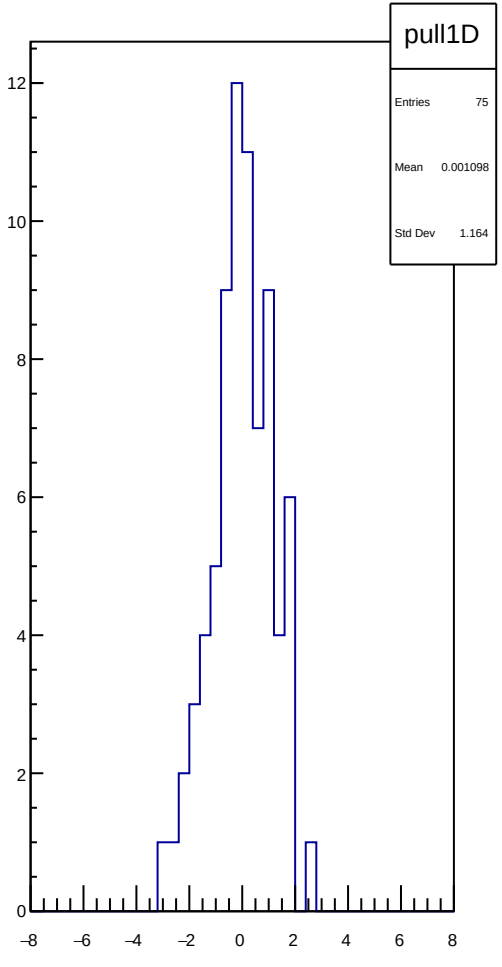

pull1D
Entries 75
Mean −0.001469
Std Dev 1.166

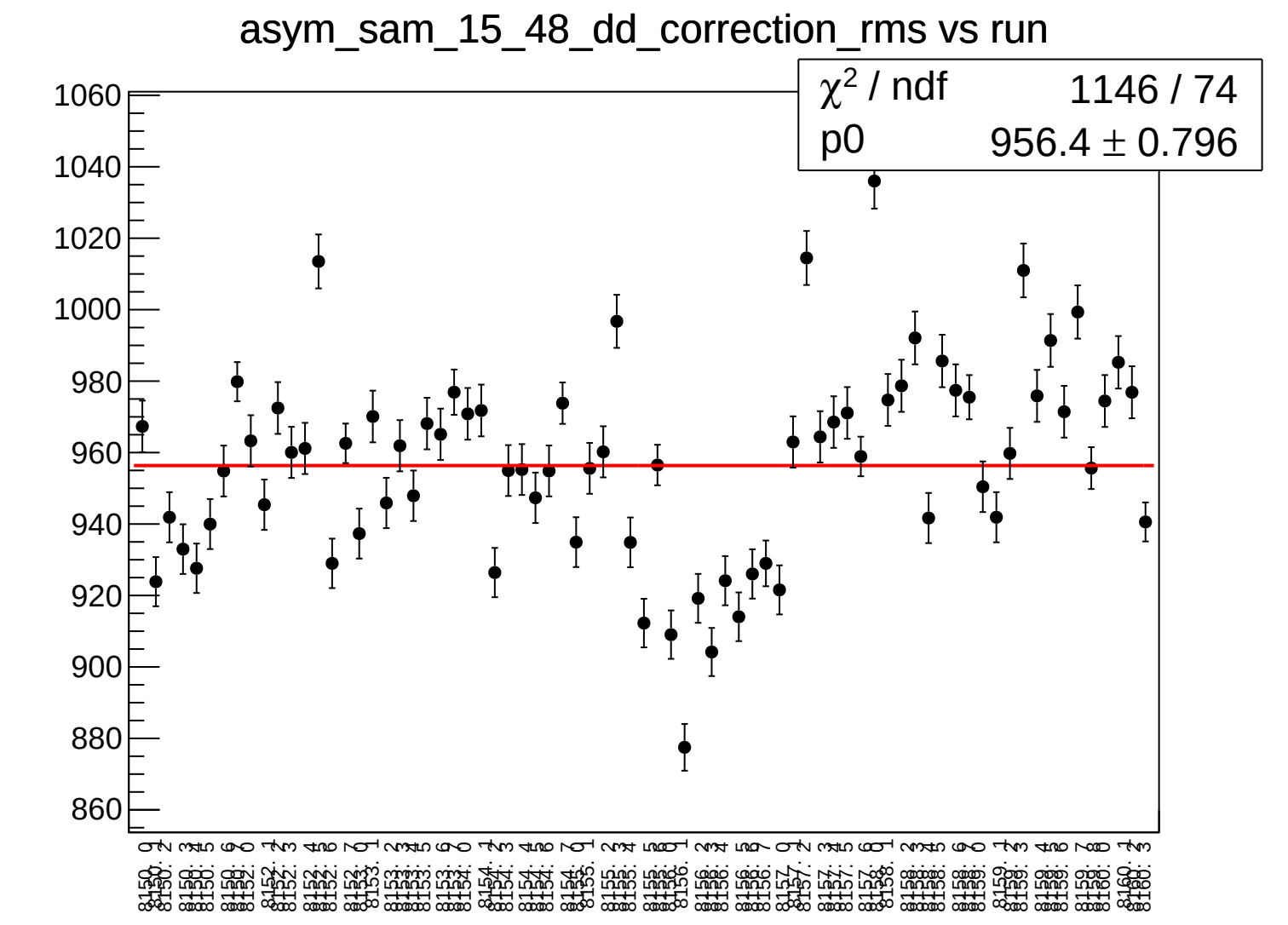

asym_sam_3726_avg_rms vs run
χ^2 / ndf 2662 / 74
p0 1506 ± 1.254
1750
1700
1650
1600
1550
1500
1450
1400
1350

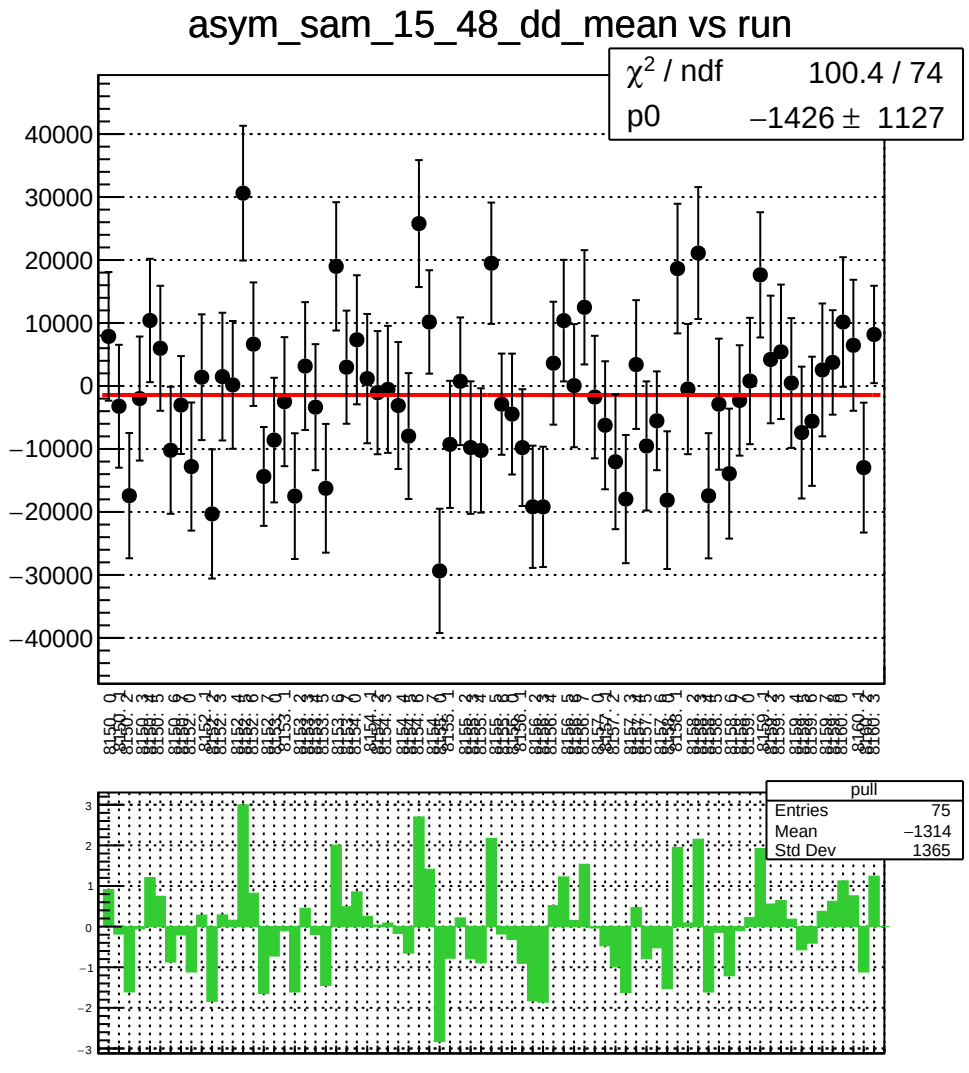

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 59.63 / 74
p0 −141.6 ± 59.67
pull
Entries 75
Mean −151.9
Std Dev 53.67
pull1D
Entries 75
Mean −0.001382
Std Dev 0.8916

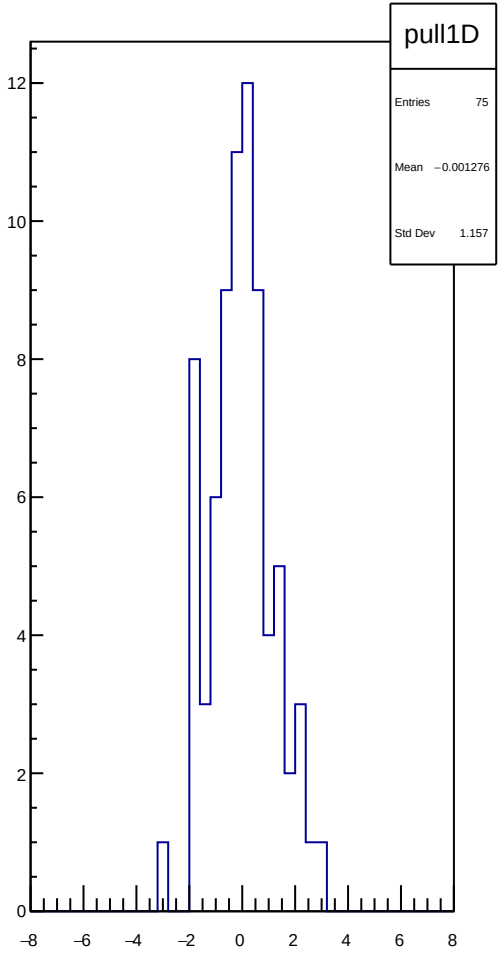

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 6155 / 74
p0 50.61 ± 0.04219
65
60
55
50
45

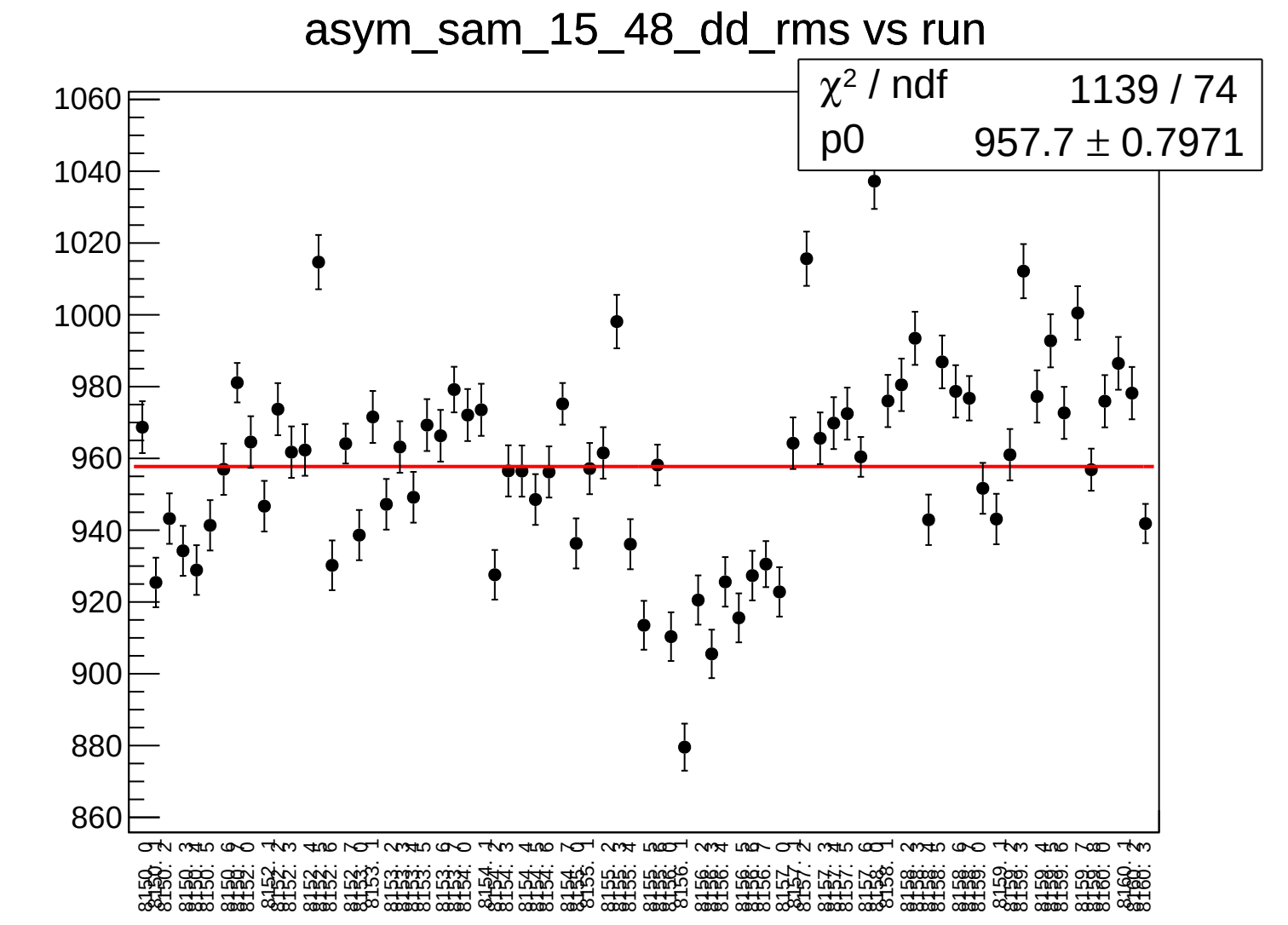

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 101.6 / 74
p0 1287 ± 1126
pull
Entries 75
Mean −1523
Std Dev 1574

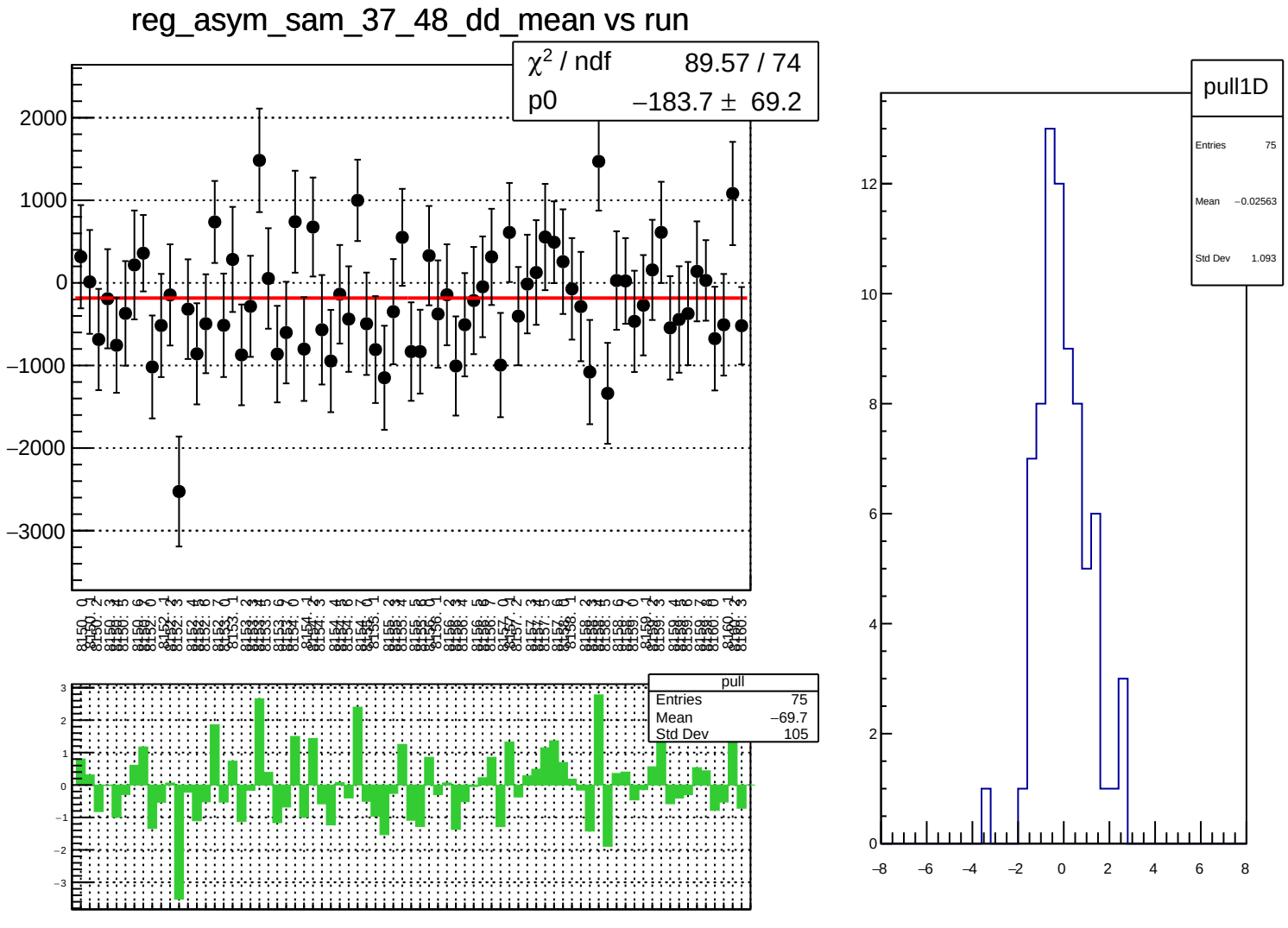

pull1D
Entries 75
Mean 0.001098
Std Dev 1.164

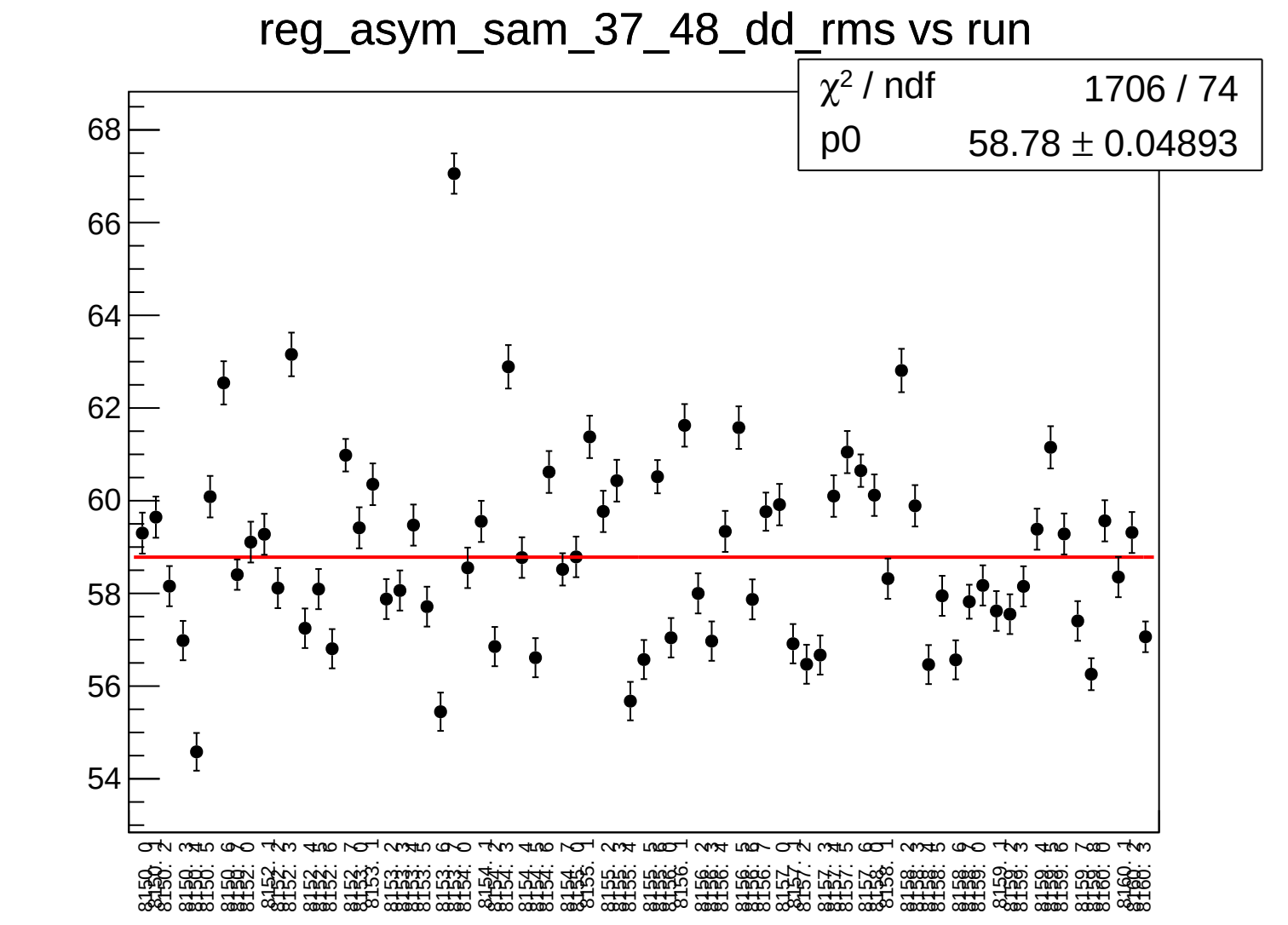

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 1146 / 74
p0 956.4 ± 0.796
1060
1040
1020
1000
980
960
940
920
900
880
860

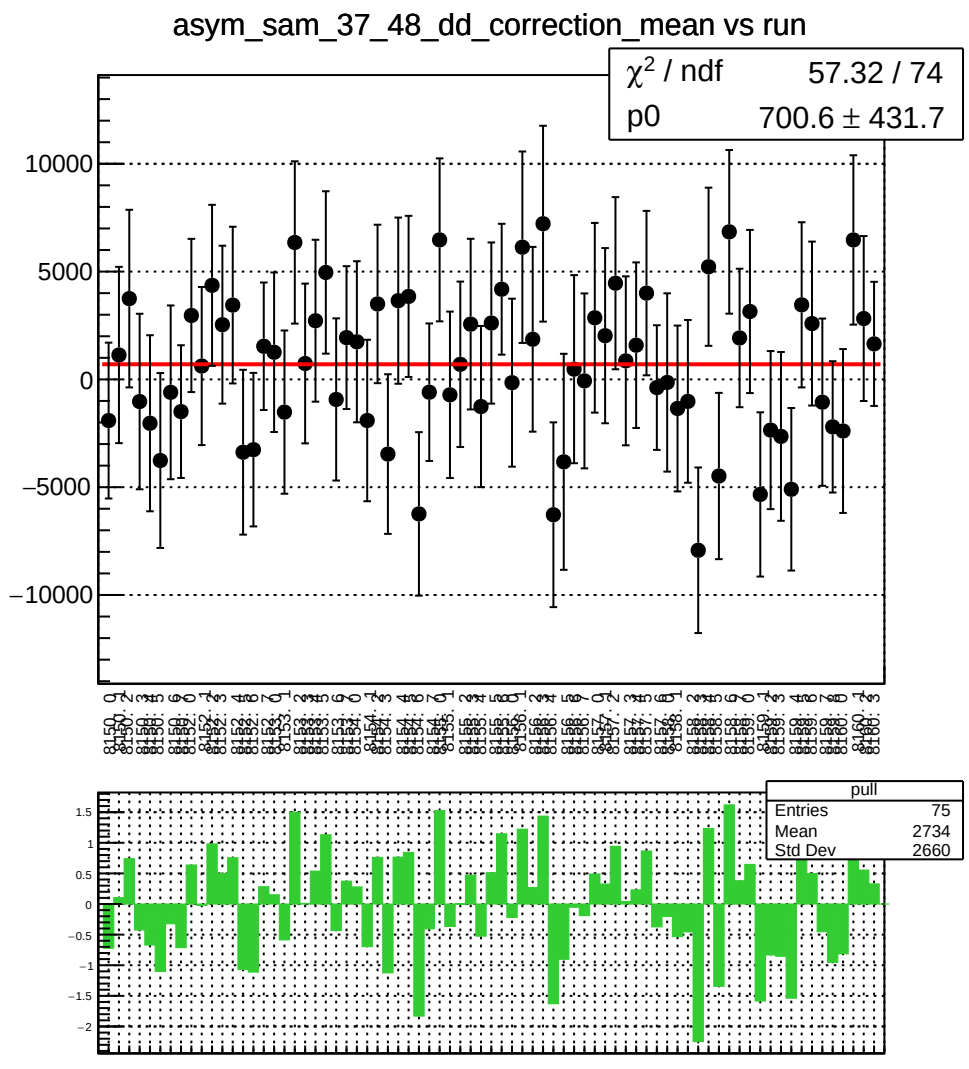

asym_sam_15_48_dd_mean vs run
χ² / ndf 100.4 / 74
p0 −1426 ± 1127
pull
Entries 75
Mean −1314
Std Dev 1365

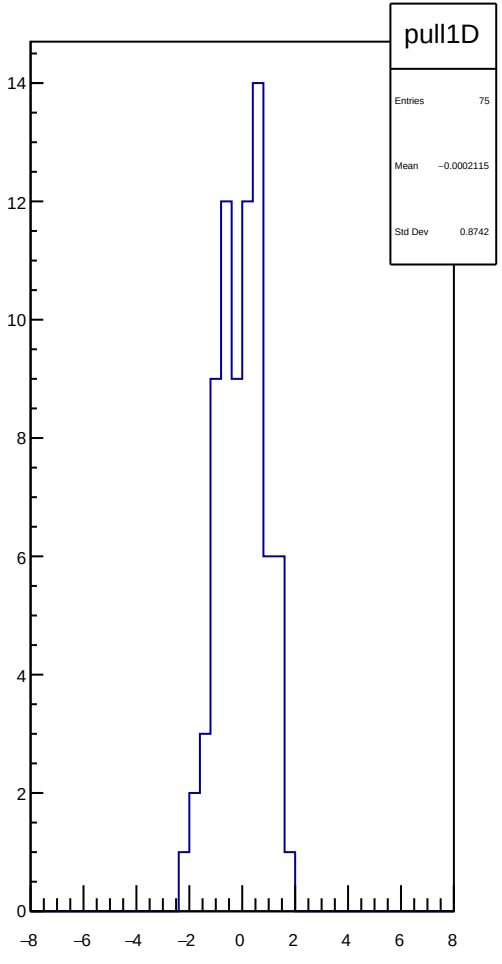

pull1D
Entries 75
Mean −0.001276
Std Dev 1.157

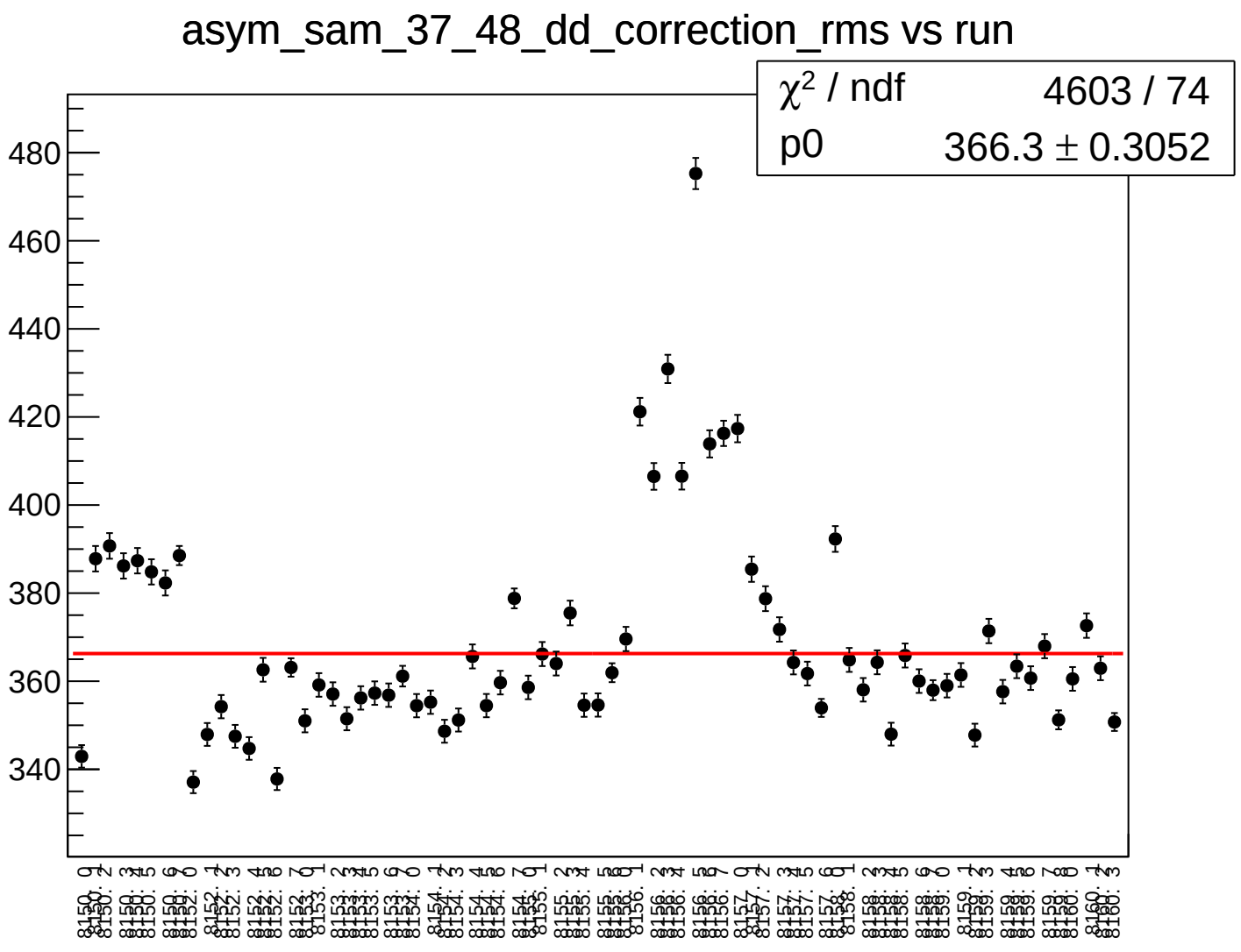

asym_sam_15_48_dd_rms vs run
χ² / ndf 1139 / 74
p0 957.7 ± 0.7971
1060
1040
1020
1000
980
960
940
920
900
880
860

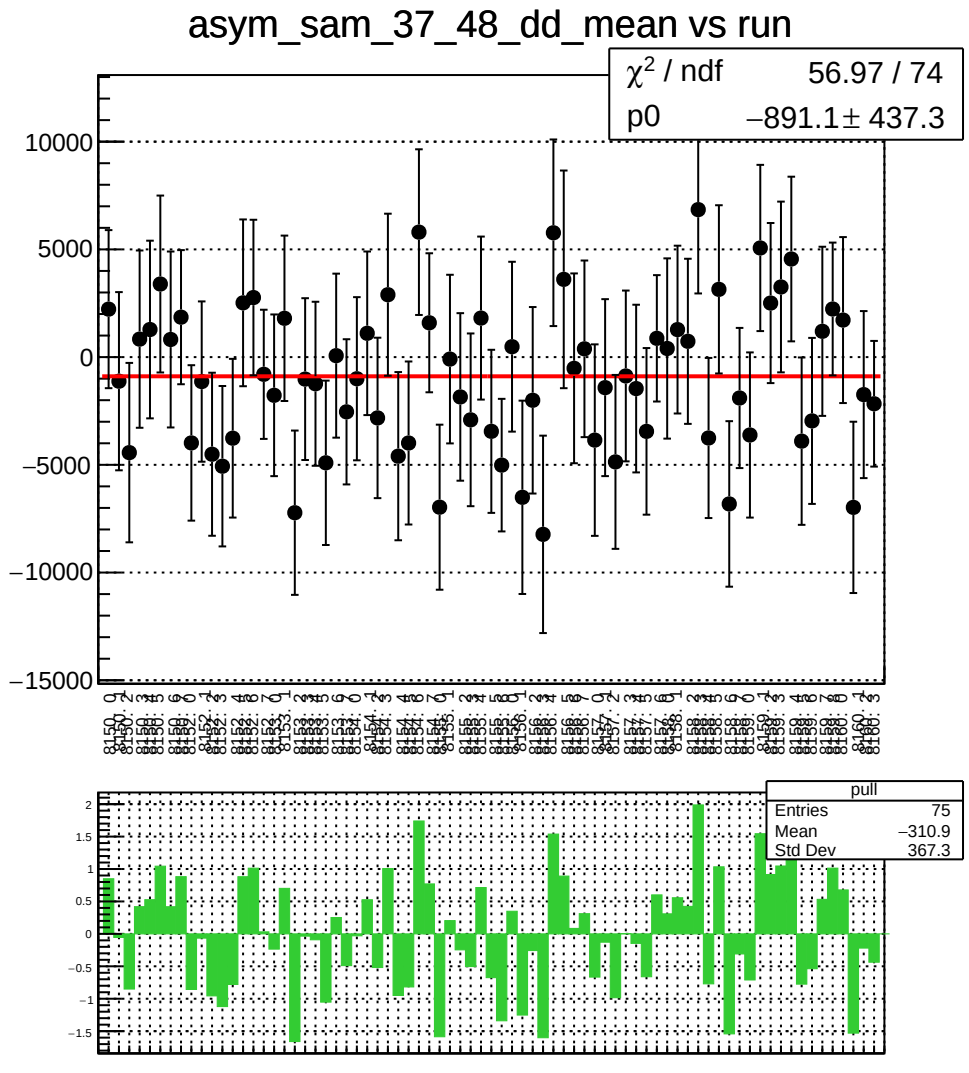

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.57 / 74
p0 −183.7 ± 69.2
2000
1000
0
−1000
−2000
−3000
pull
Entries 75
Mean −69.7
Std Dev 105
pull1D
Entries 75
Mean −0.02563
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

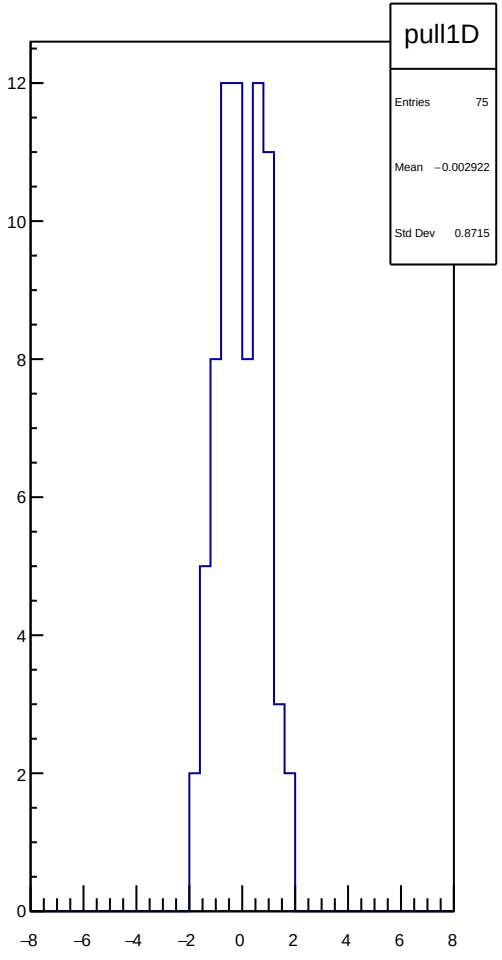

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1706 / 74
p0 58.78 ± 0.04893
68
66
64
62
60
58
56
54

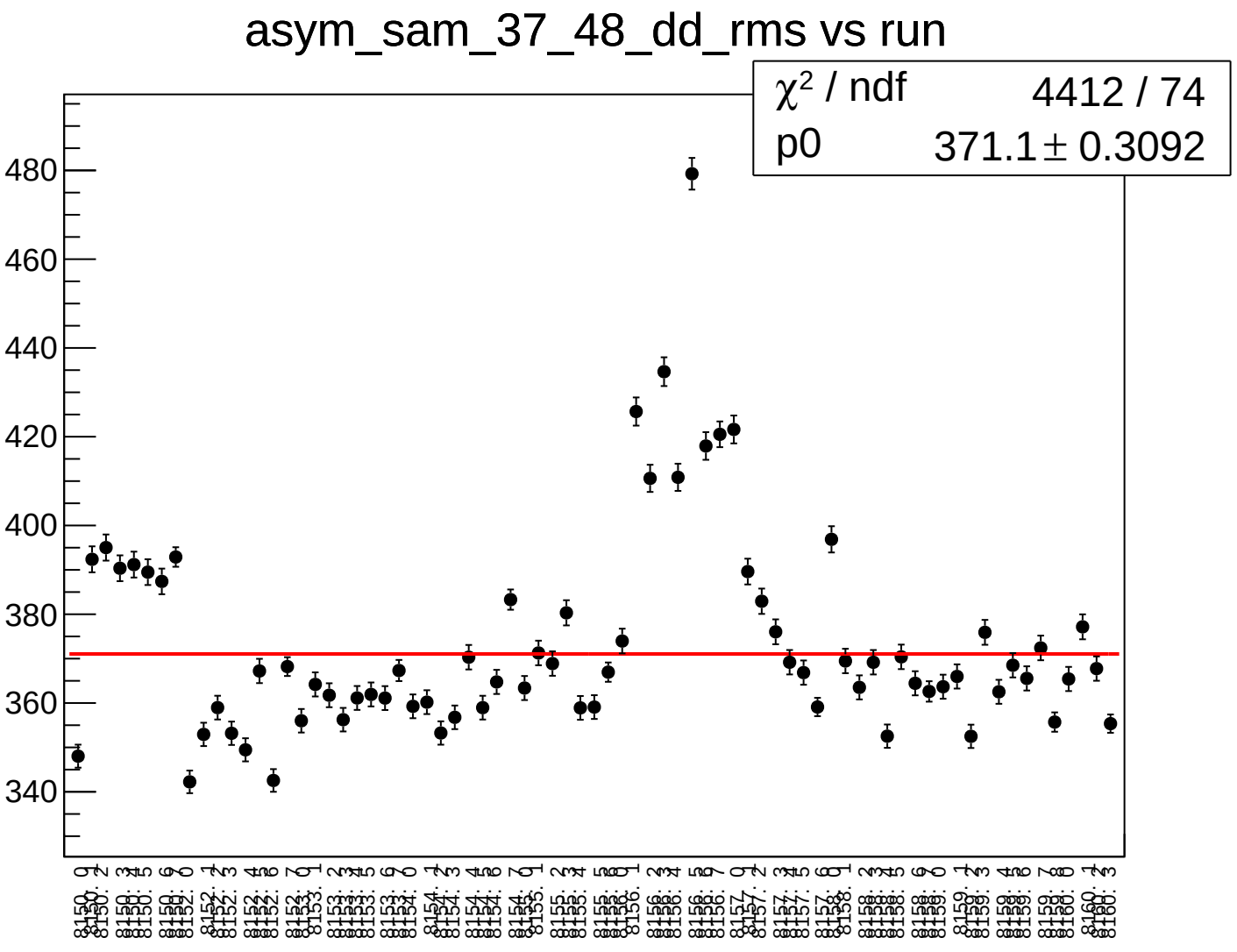

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 57.32 / 74
p0 700.6 ± 431.7
10000
5000
0
−5000
−10000
pull
Entries 75
Mean 2734
Std Dev 2660
1.5
1
0.5
0
−0.5
−1
−1.5
−2

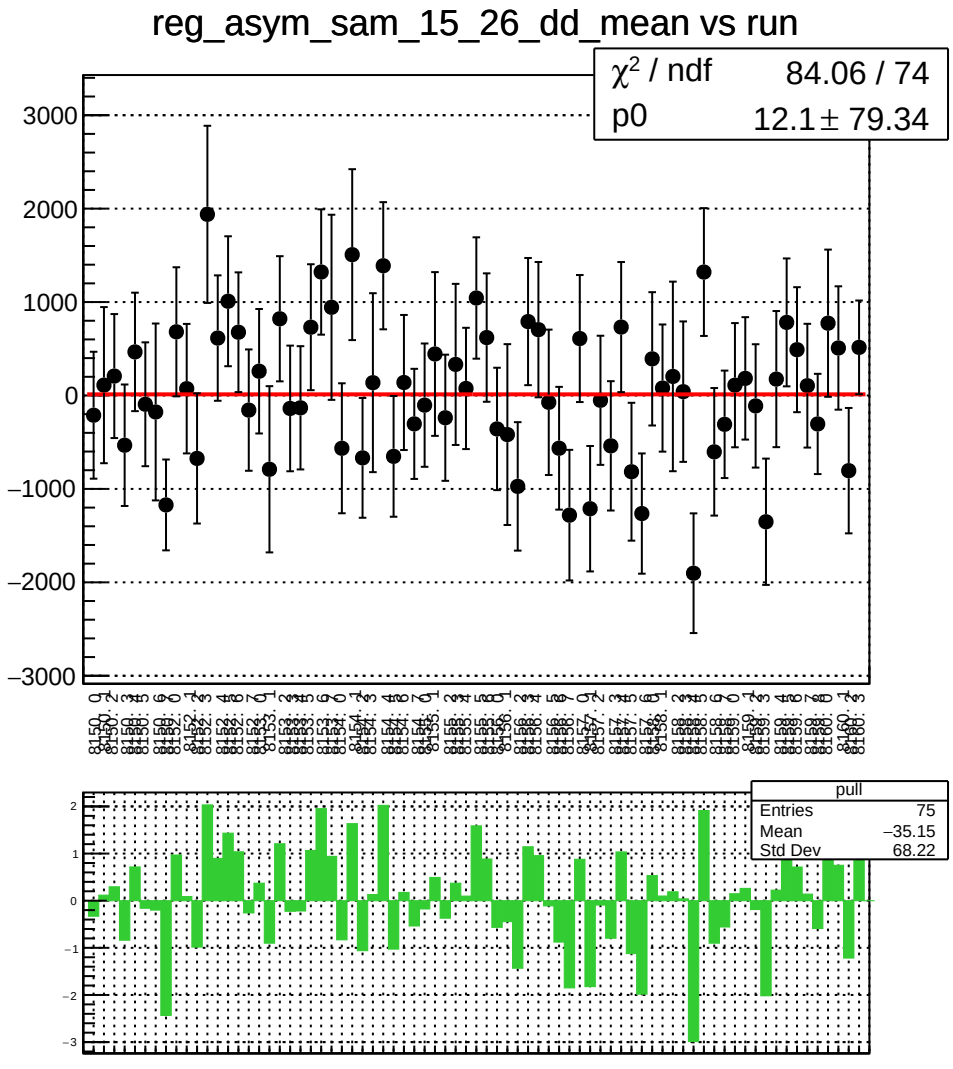

pull1D
Entries 75
Mean −0.0002115
Std Dev 0.8742
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

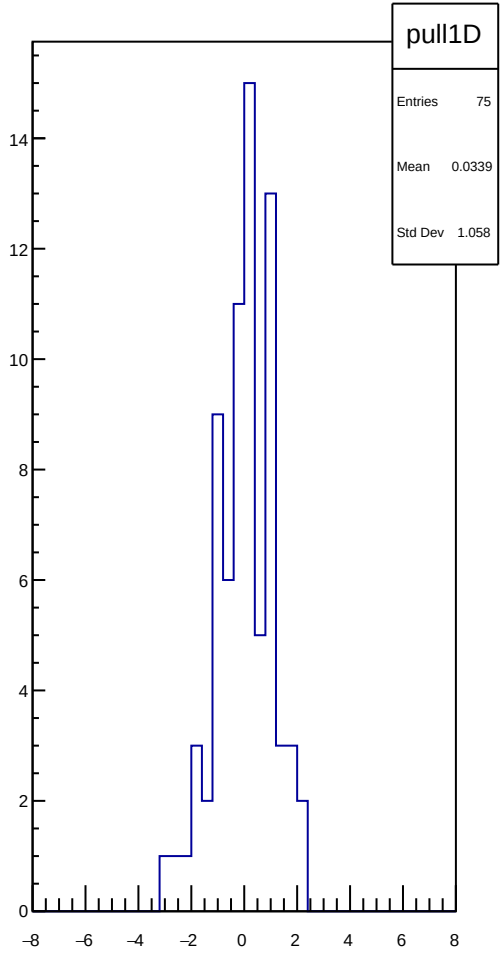

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 4603 / 74
p0 366.3 ± 0.3052
480
460
440
420
400
380
360
340

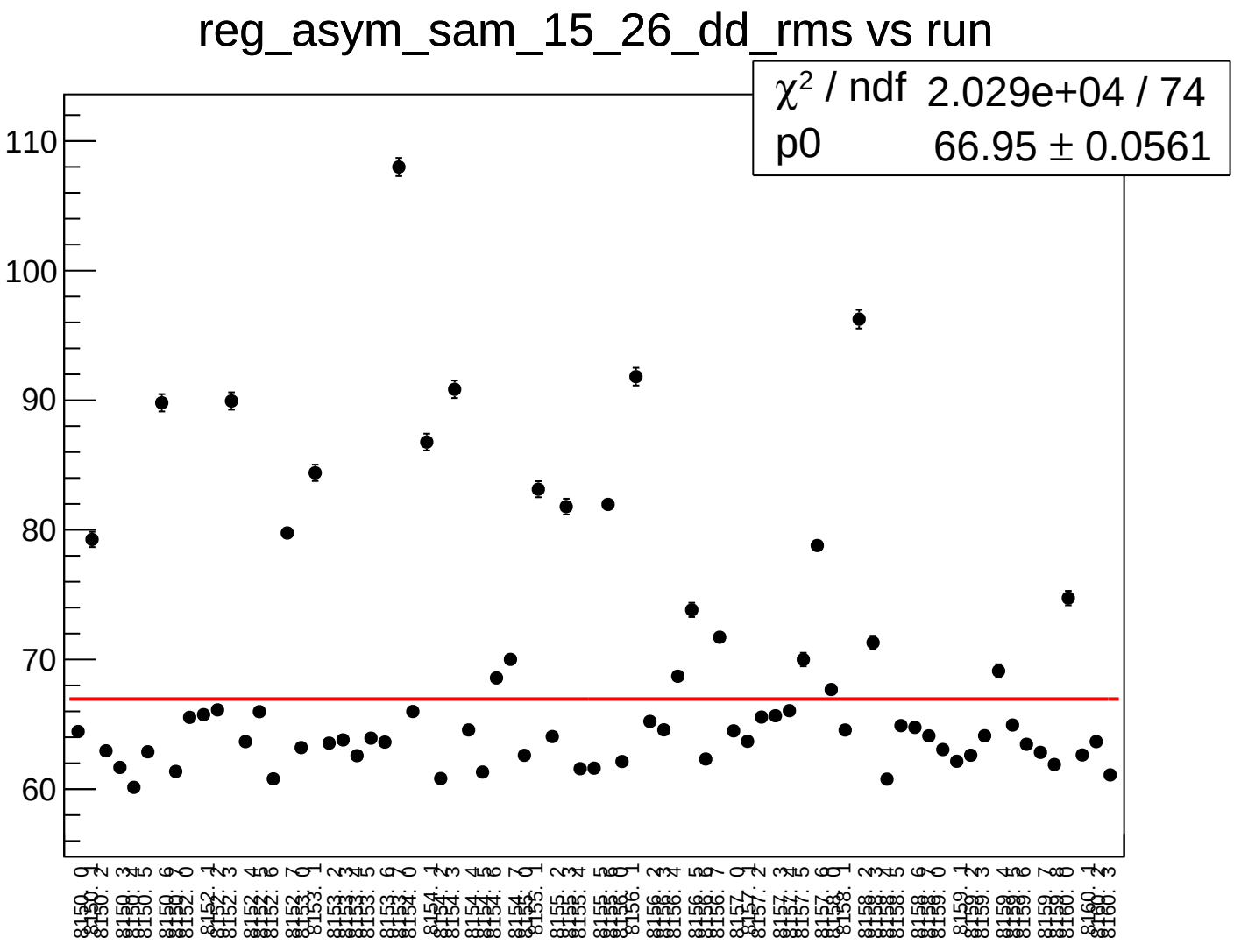

asym_sam_37_48_dd_mean vs run
χ² / ndf 56.97 / 74
p0 −891.1 ± 437.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 75
Mean −310.9
Std Dev 367.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

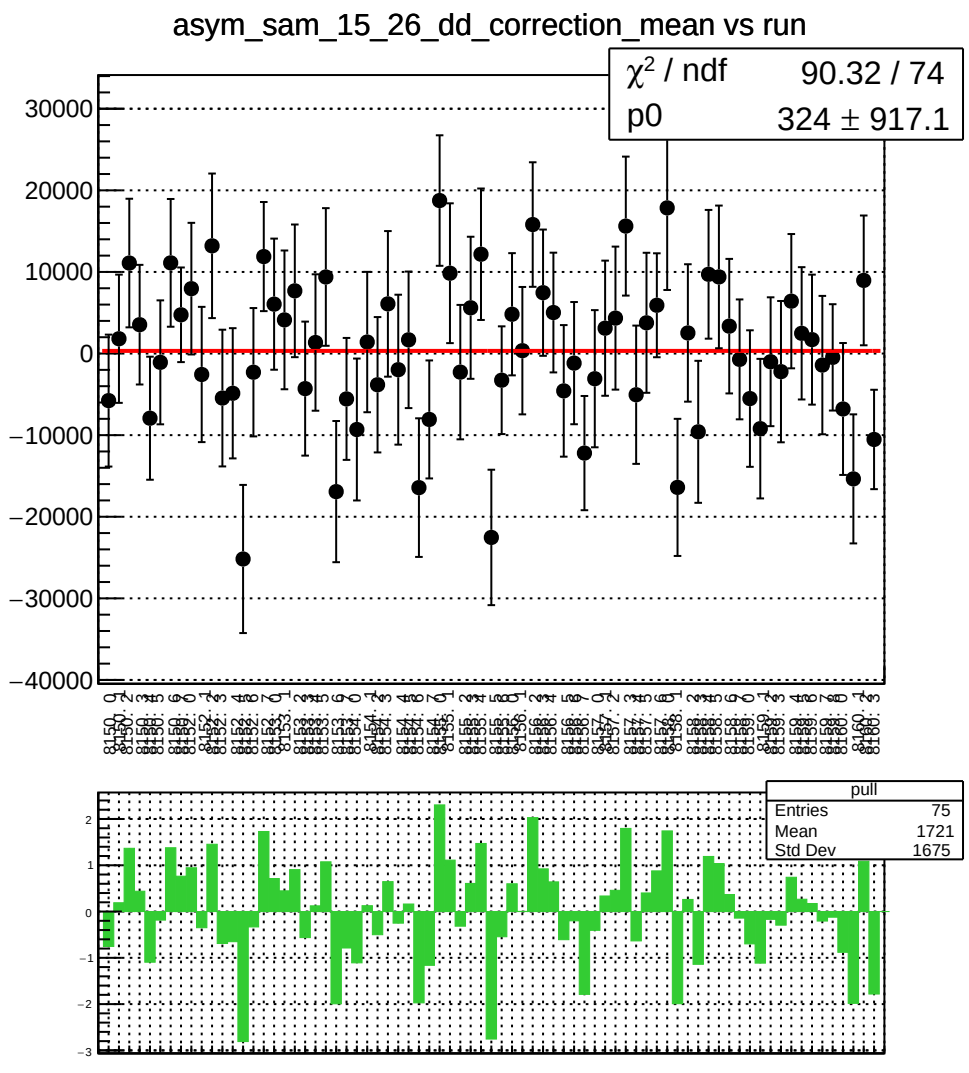

pull1D
Entries 75
Mean −0.002922
Std Dev 0.8715
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

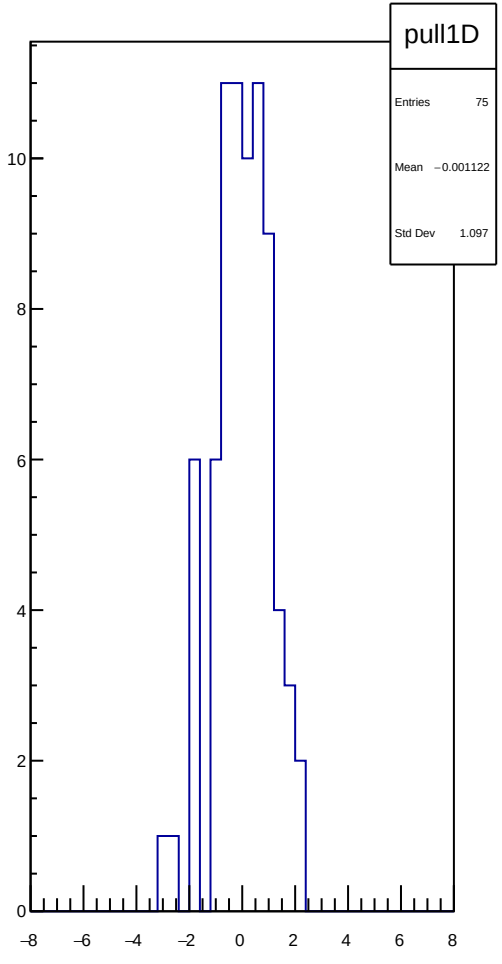

asym_sam_37_48_dd_rms vs run
χ² / ndf 4412 / 74
p0 371.1 ± 0.3092
480
460
440
420
400
380
360
340

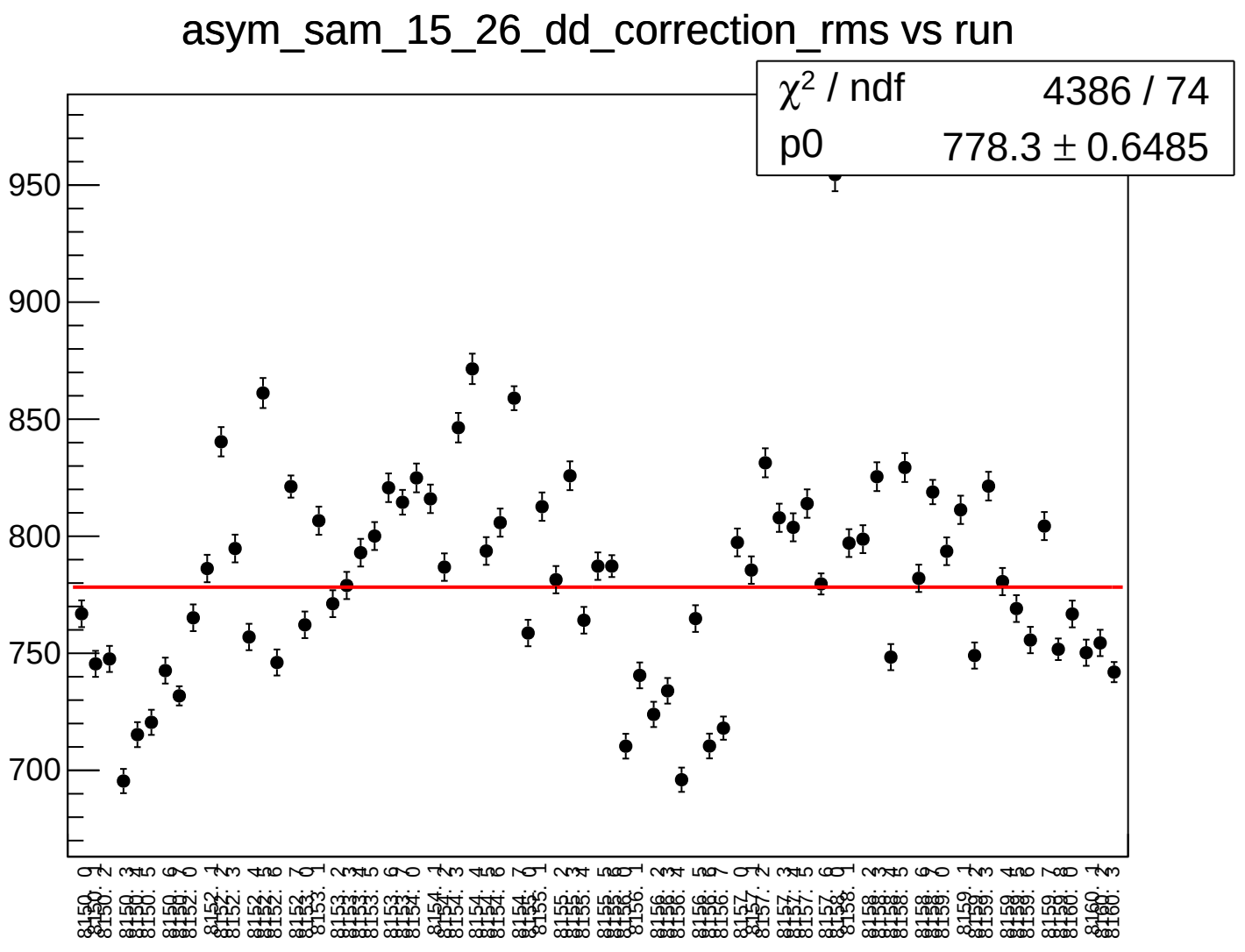

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 84.06 / 74
p0 12.1 ± 79.34
pull
Entries 75
Mean −35.15
Std Dev 68.22

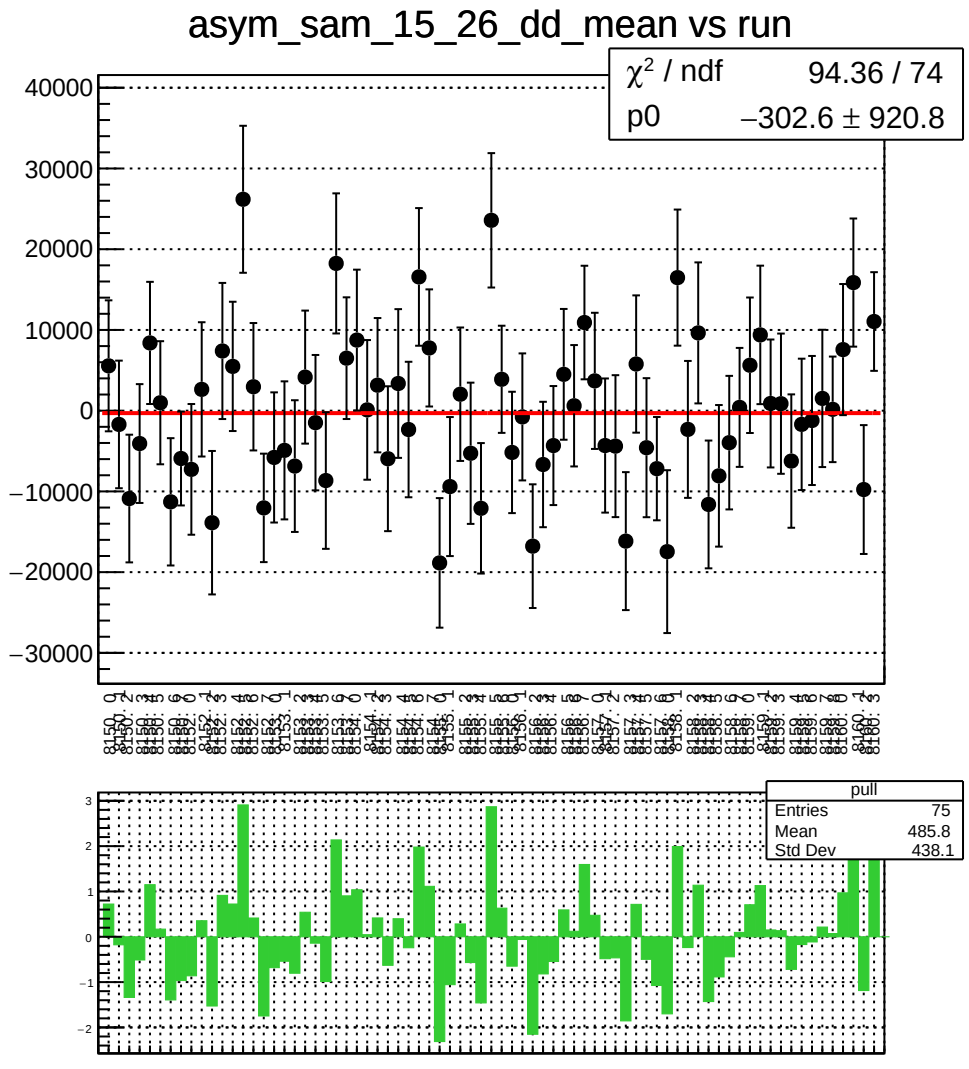

pull1D
Entries 75
Mean 0.0339
Std Dev 1.058

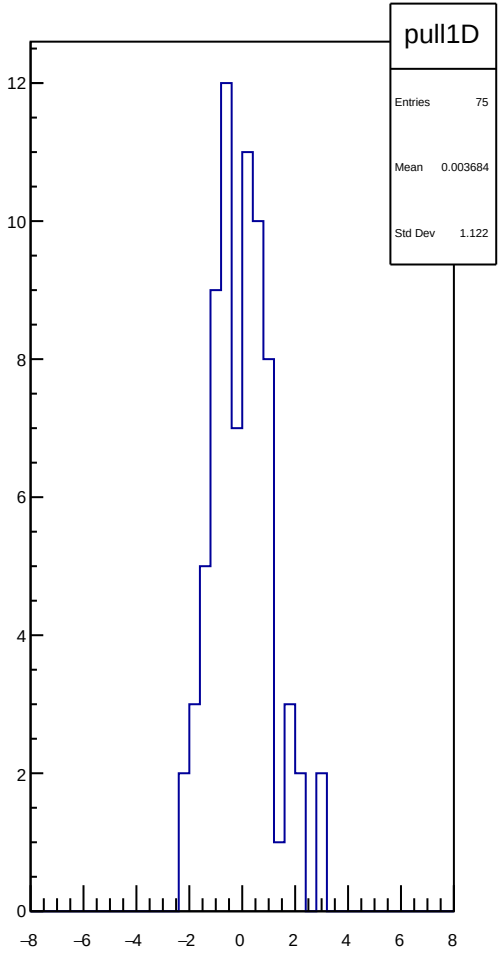

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.029e+04 / 74
p0 66.95 ± 0.0561
110
100
90
80
70
60

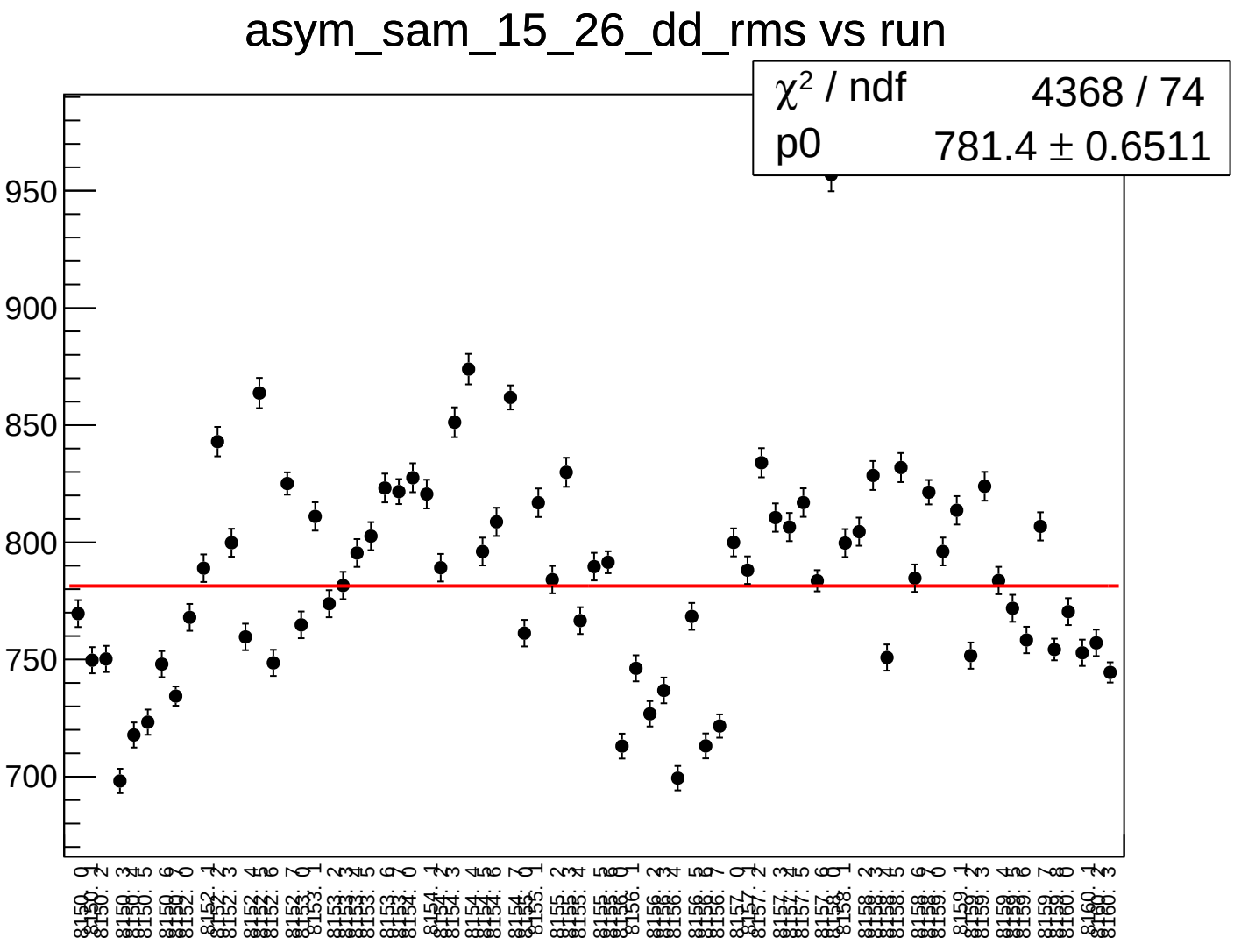

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 90.32 / 74
p0 324 ± 917.1
pull
Entries 75
Mean 1721
Std Dev 1675

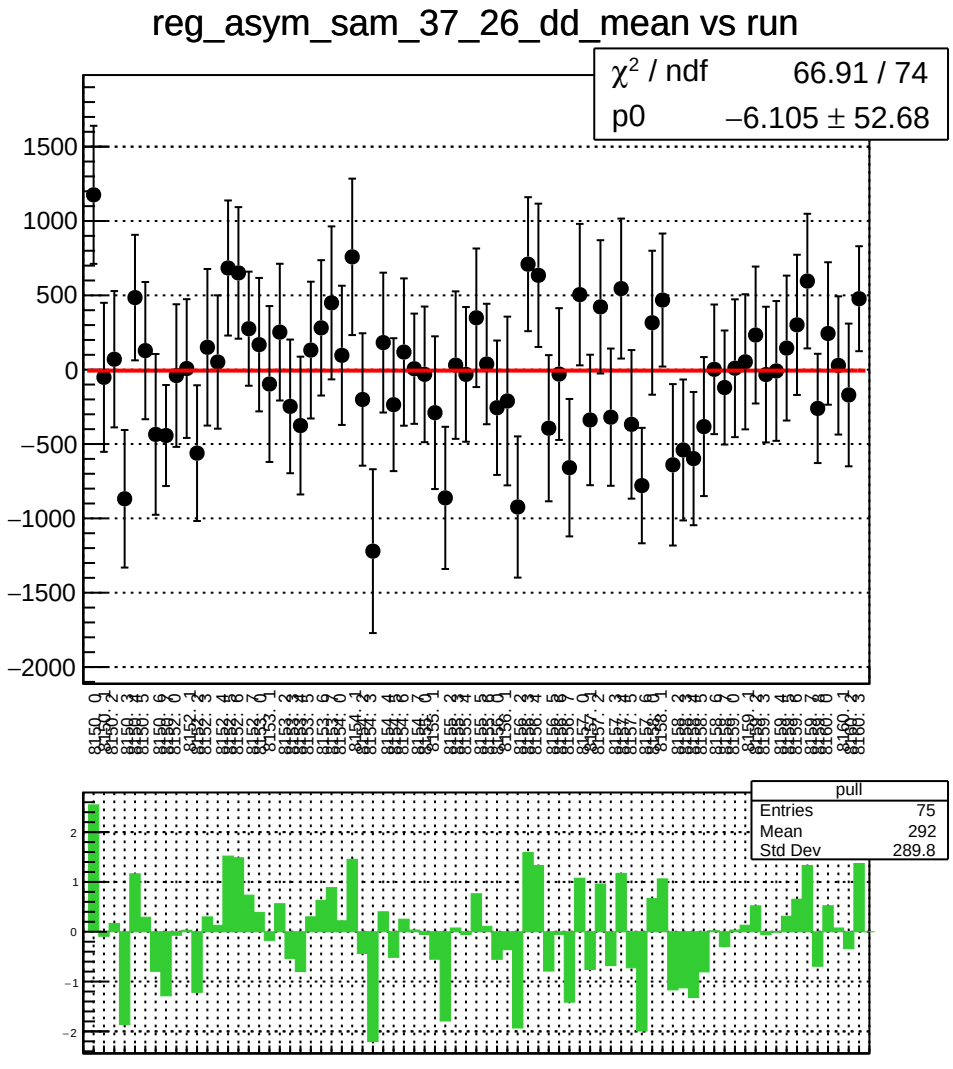

pull1D
Entries 75
Mean −0.001122
Std Dev 1.097

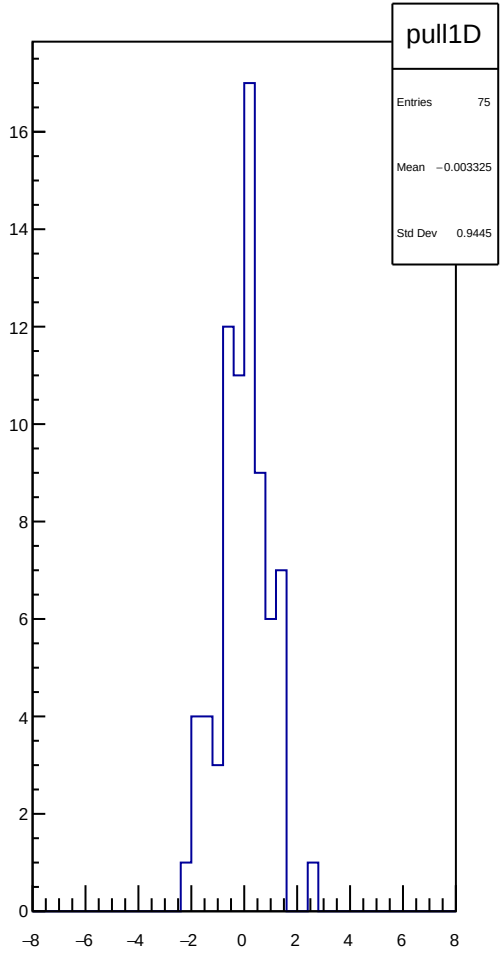

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 4386 / 74
p0 778.3 ± 0.6485
950
900
850
800
750
700

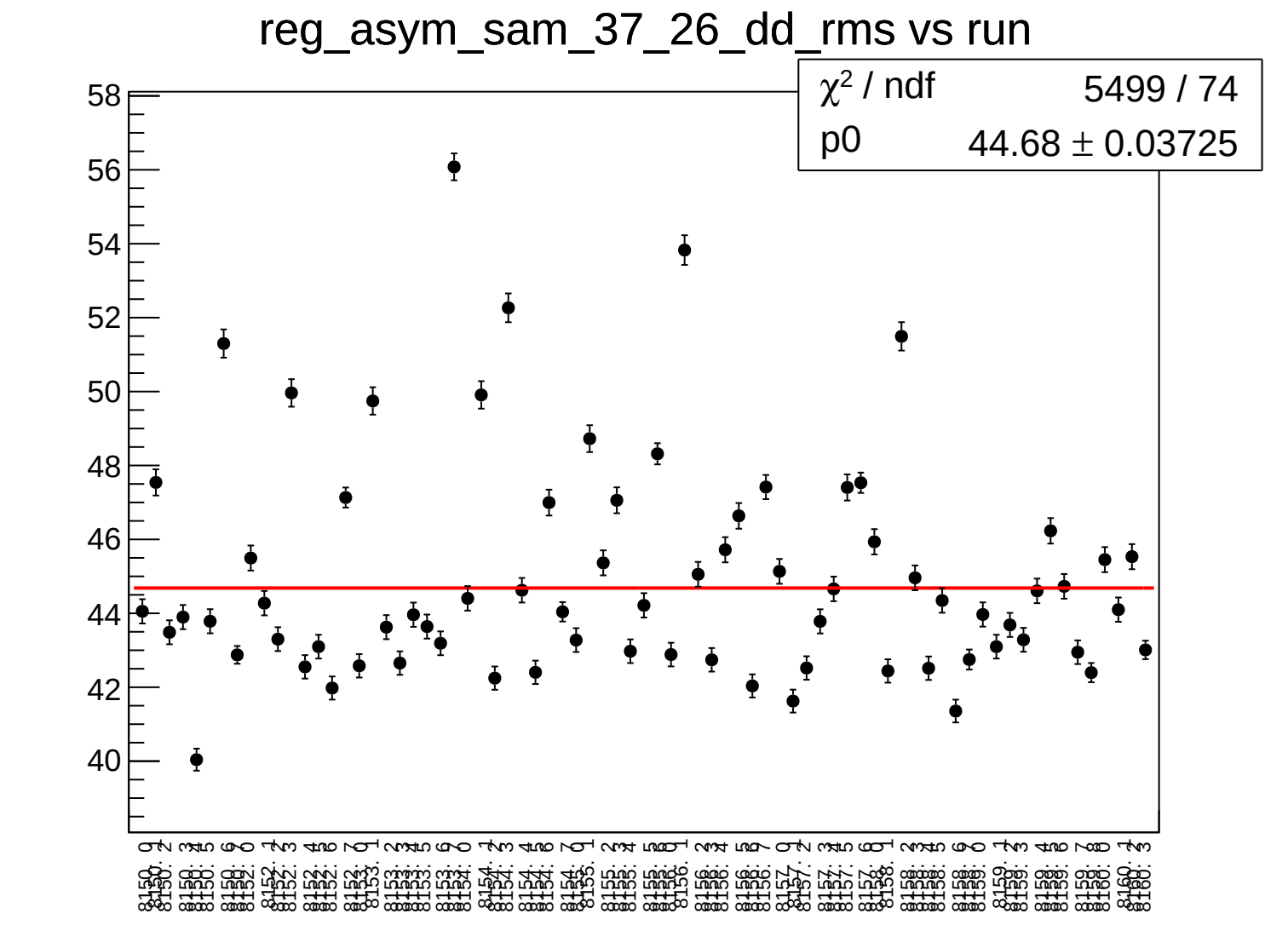

asym_sam_15_26_dd_mean vs run
χ² / ndf 94.36 / 74
p0 −302.6 ± 920.8
pull
Entries 75
Mean 485.8
Std Dev 438.1

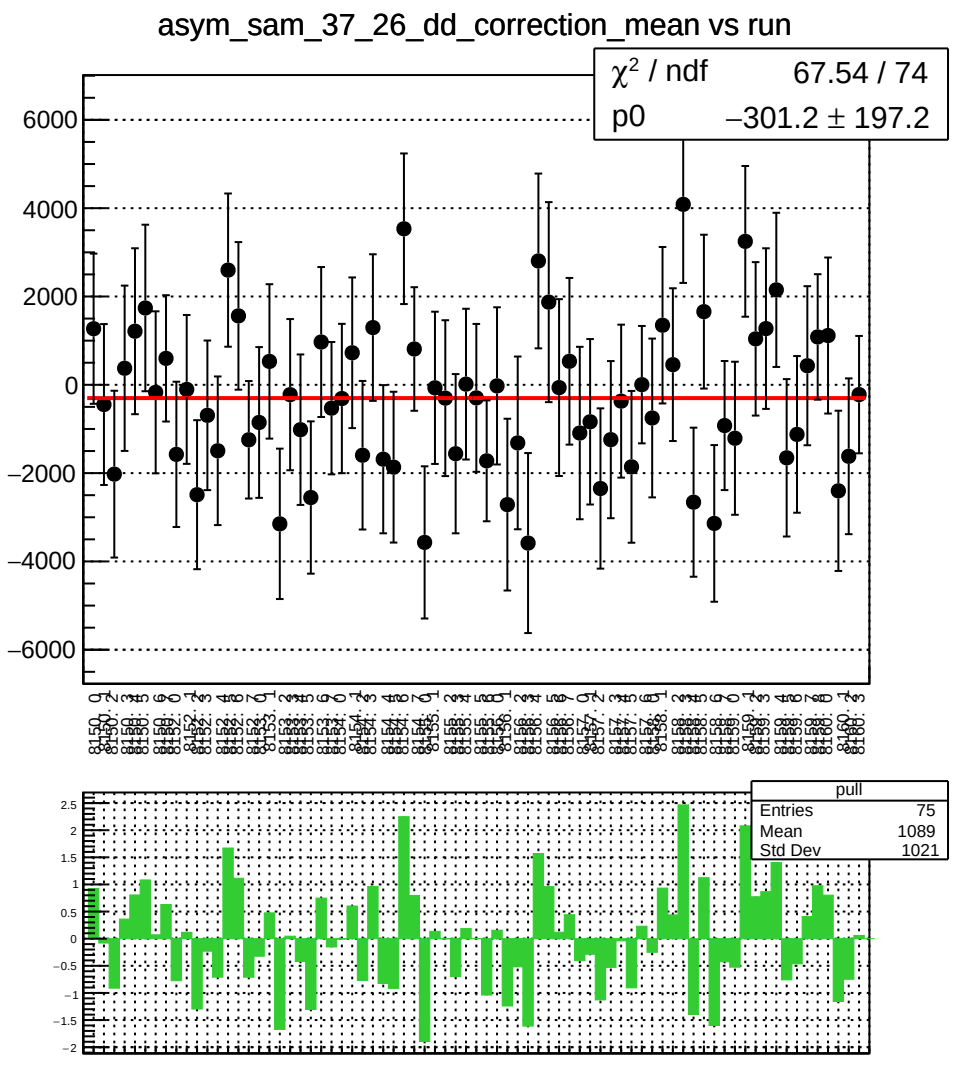

pull1D
Entries 75
Mean 0.003684
Std Dev 1.122

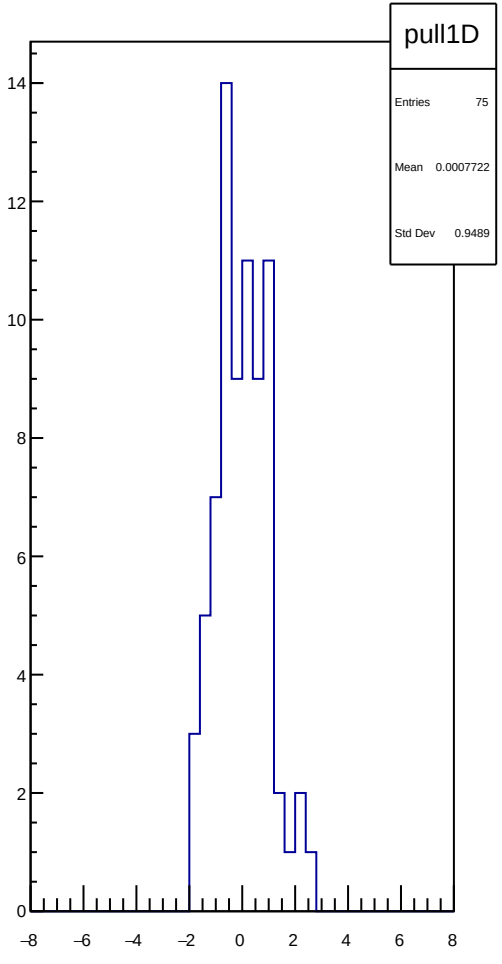

asym_sam_15_26_dd_rms vs run
χ² / ndf 4368 / 74
p0 781.4 ± 0.6511
950
900
850
800
750
700

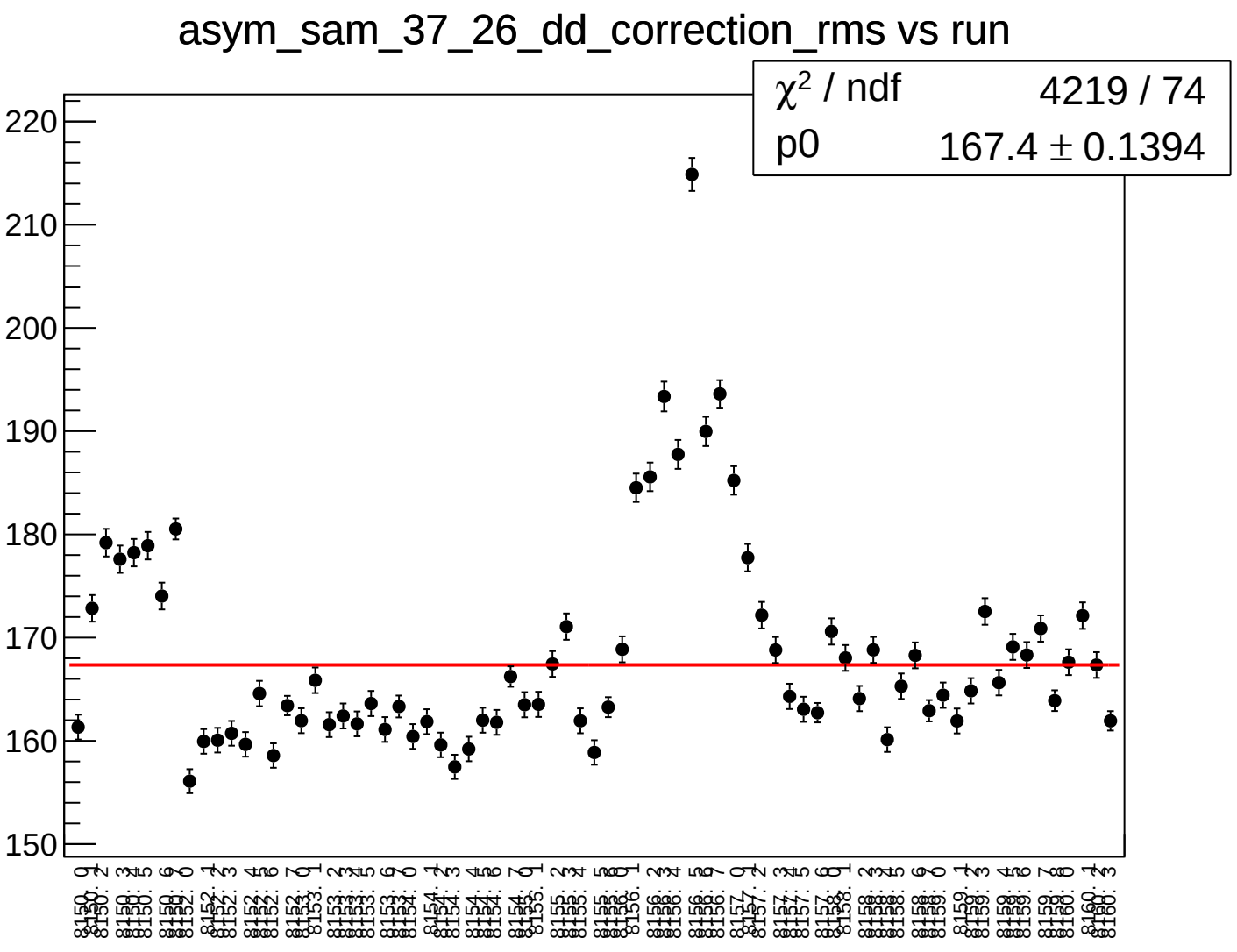

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 66.91 / 74
p0 −6.105 ± 52.68
pull
Entries 75
Mean 292
Std Dev 289.8

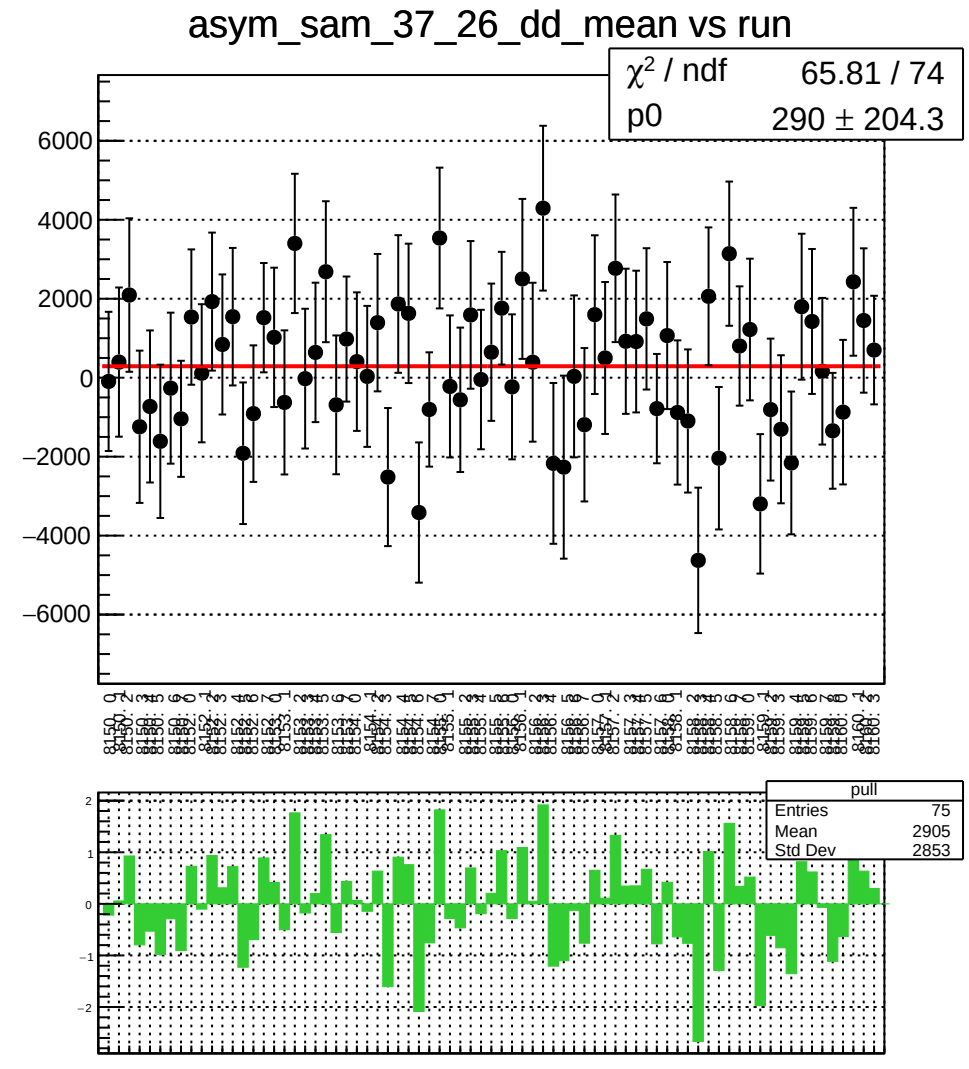

pull1D
Entries 75
Mean −0.003325
Std Dev 0.9445

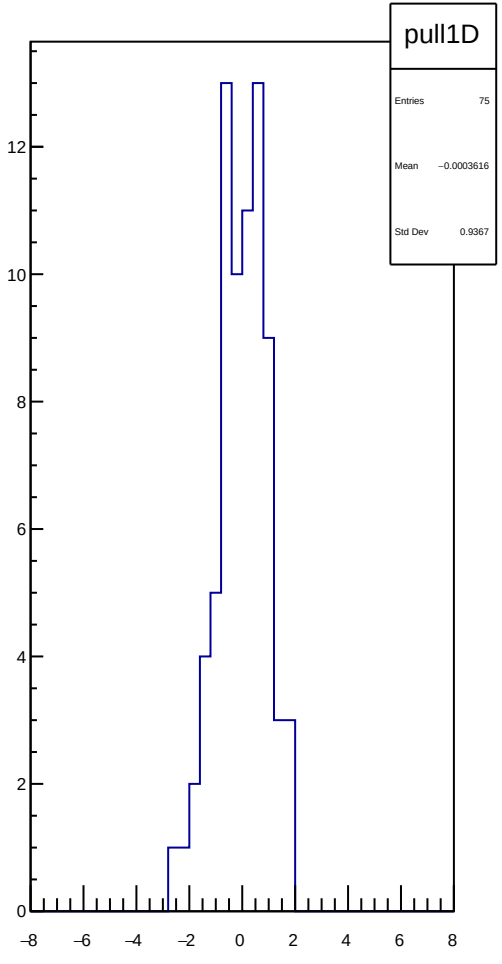

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 5499 / 74
p0 44.68 ± 0.03725
58
56
54
52
50
48
46
44
42
40

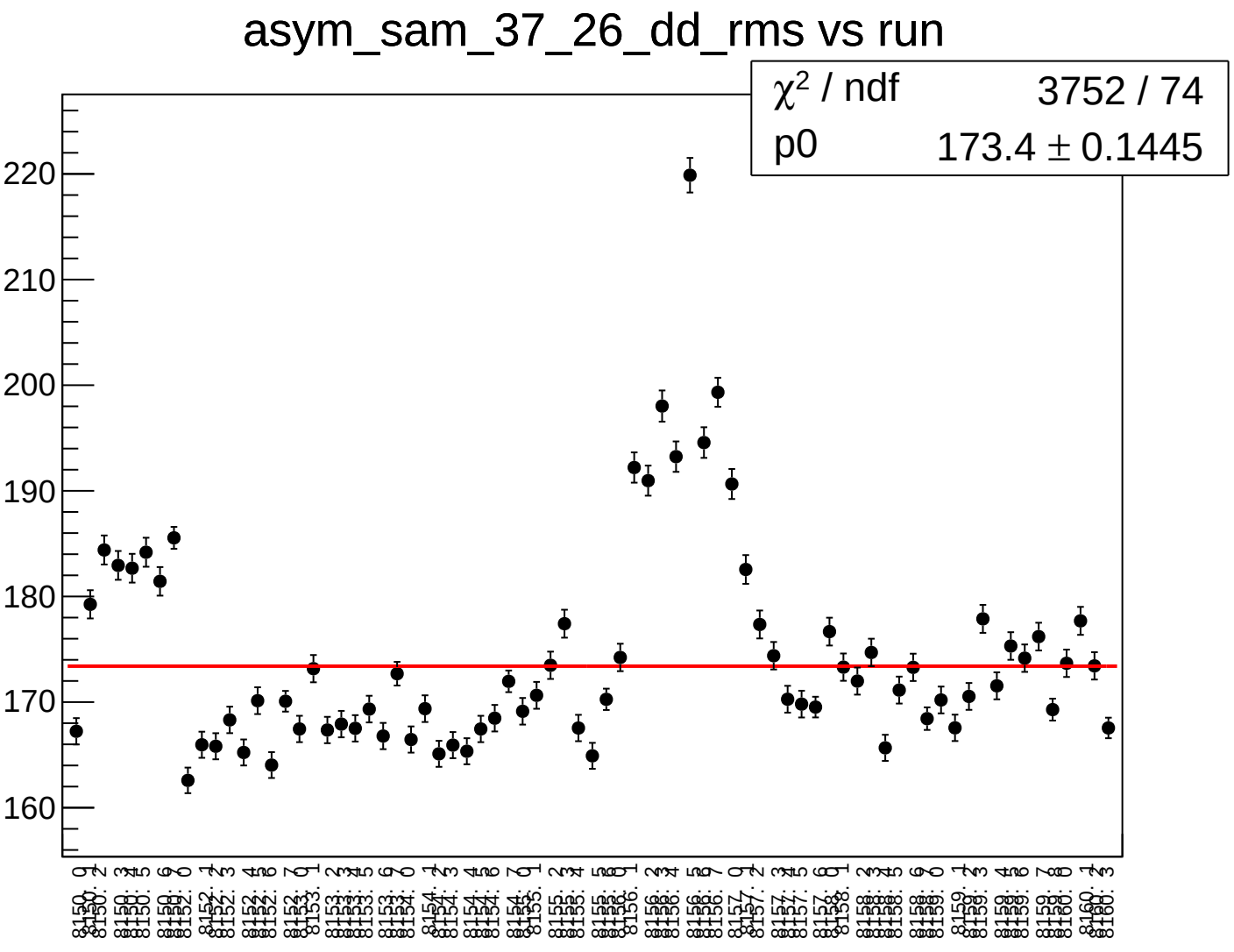

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 67.54 / 74
p0 −301.2 ± 197.2
pull
Entries 75
Mean 1089
Std Dev 1021

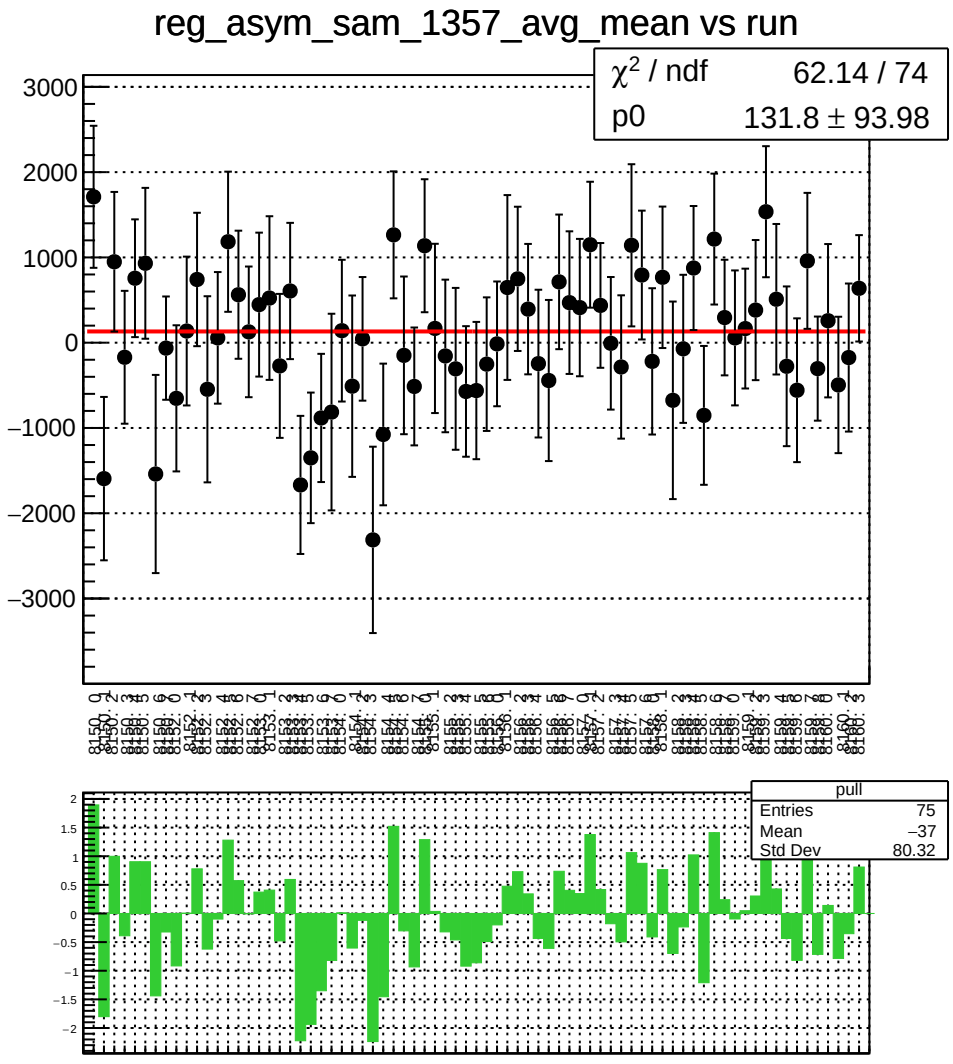

pull1D
Entries 75
Mean 0.0007722
Std Dev 0.9489

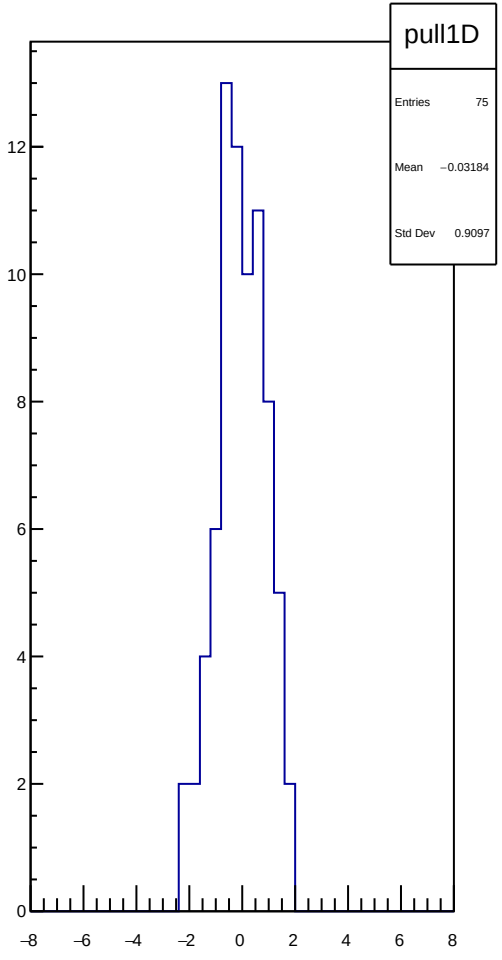

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 4219 / 74
p0 167.4 ± 0.1394
220
210
200
190
180
170
160
150

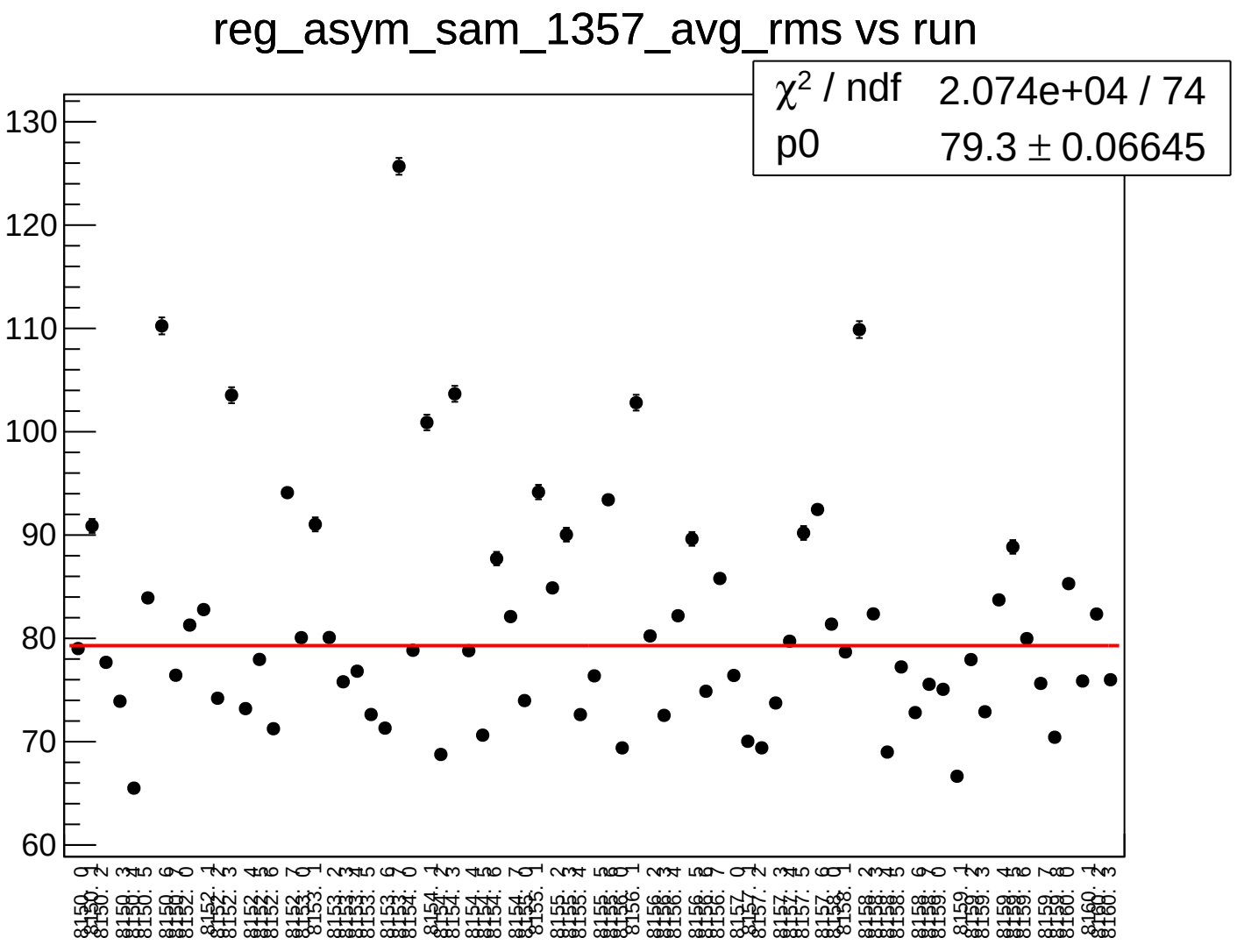

asym_sam_37_26_dd_mean vs run
χ² / ndf 65.81 / 74
p0 290 ± 204.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 75
Mean 2905
Std Dev 2853
2
1
0
−1
−2

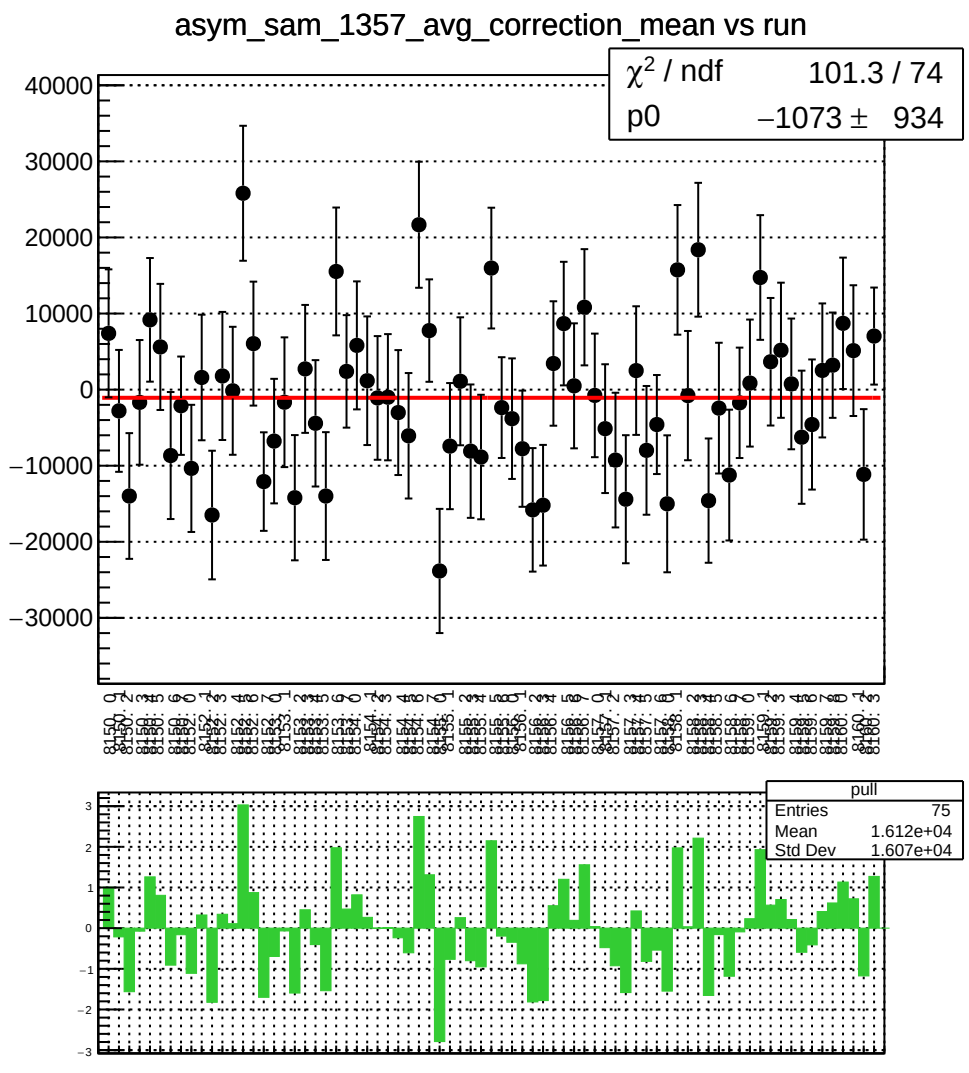

pull1D
Entries 75
Mean −0.0003616
Std Dev 0.9367
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

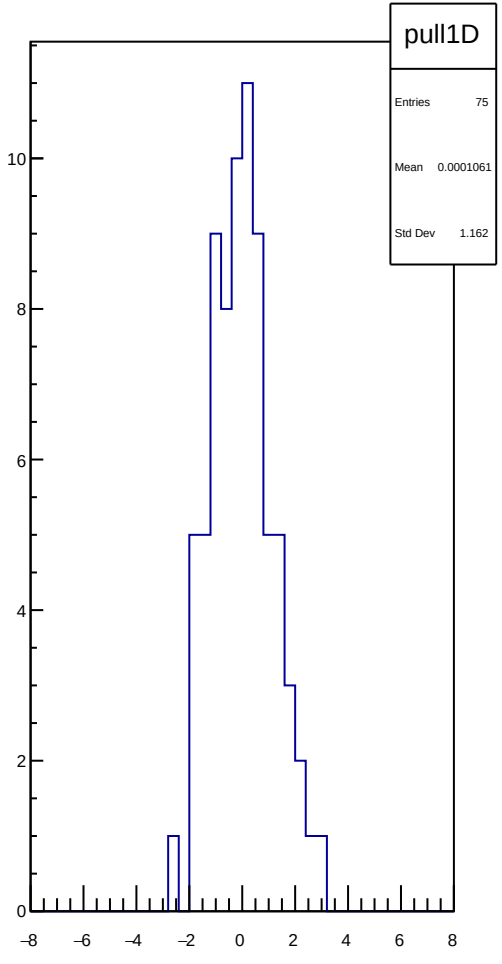

asym_sam_37_26_dd_rms vs run
χ² / ndf 3752 / 74
p0 173.4 ± 0.1445
220
210
200
190
180
170
160

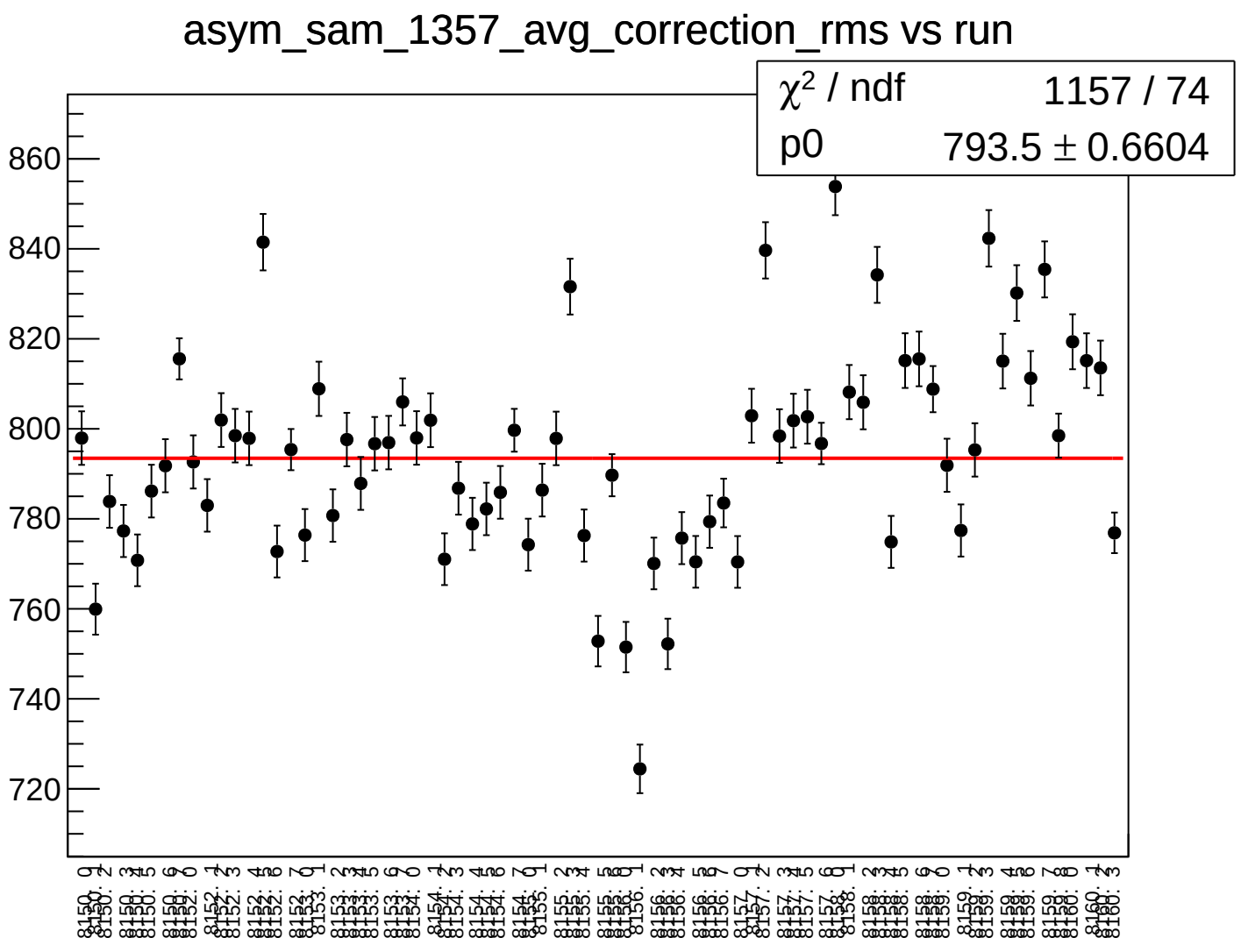

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 62.14 / 74
p0 131.8 ± 93.98
pull
Entries 75
Mean −37
Std Dev 80.32

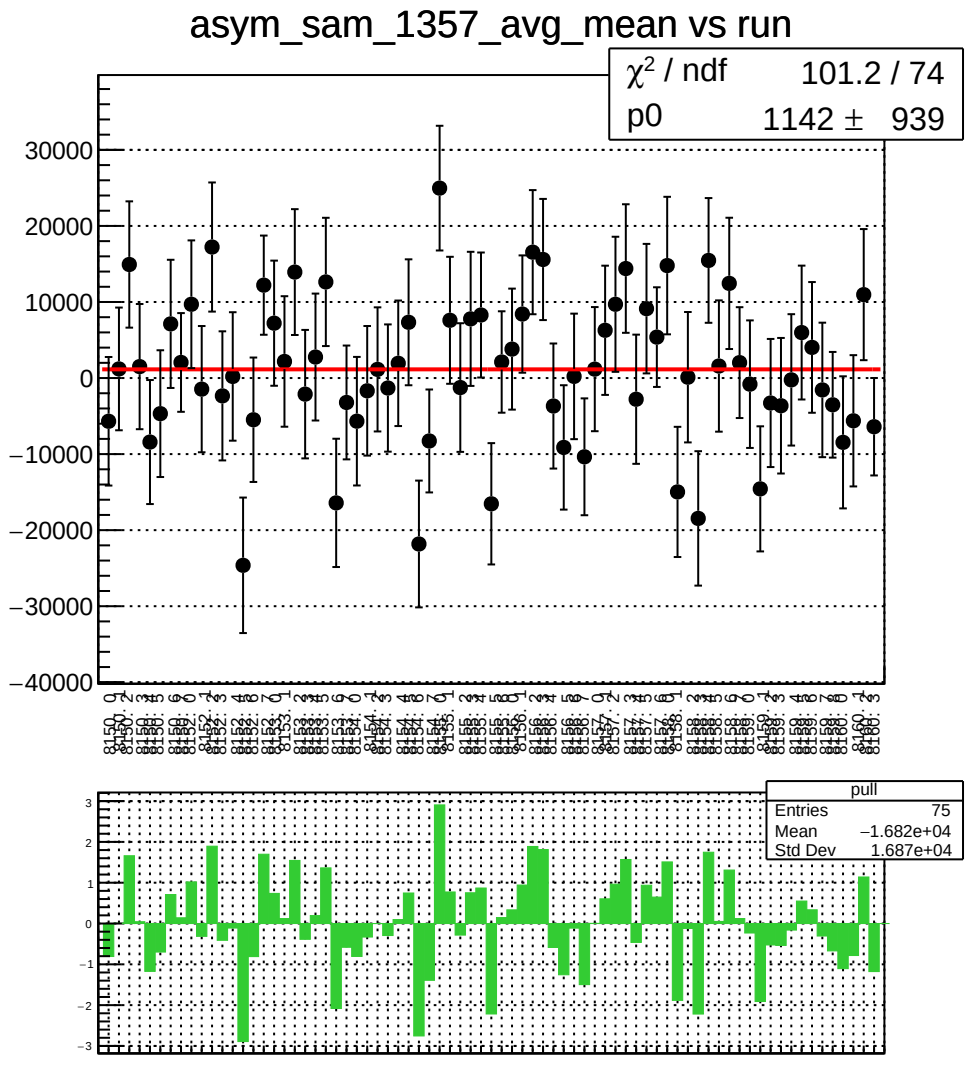

pull1D
Entries 75
Mean −0.03184
Std Dev 0.9097

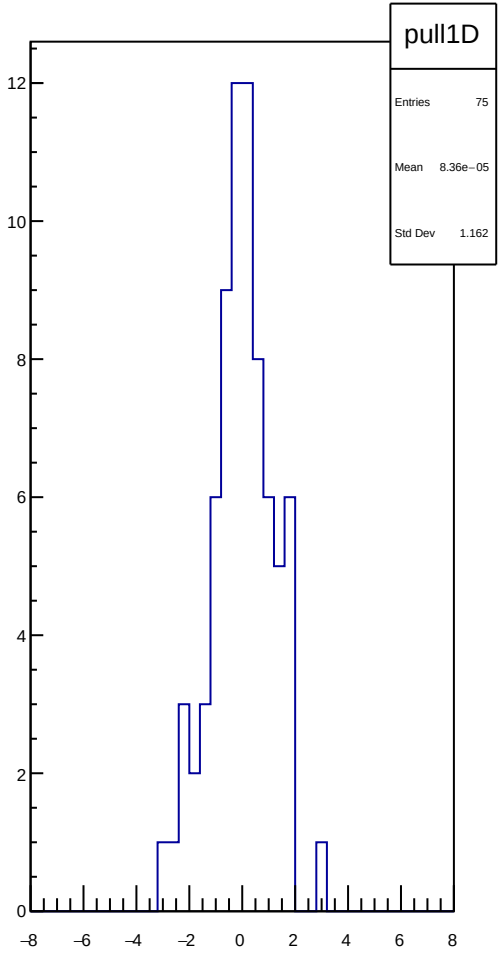

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 2.074e+04 / 74
p0 79.3 ± 0.06645
130
120
110
100
90
80
70
60

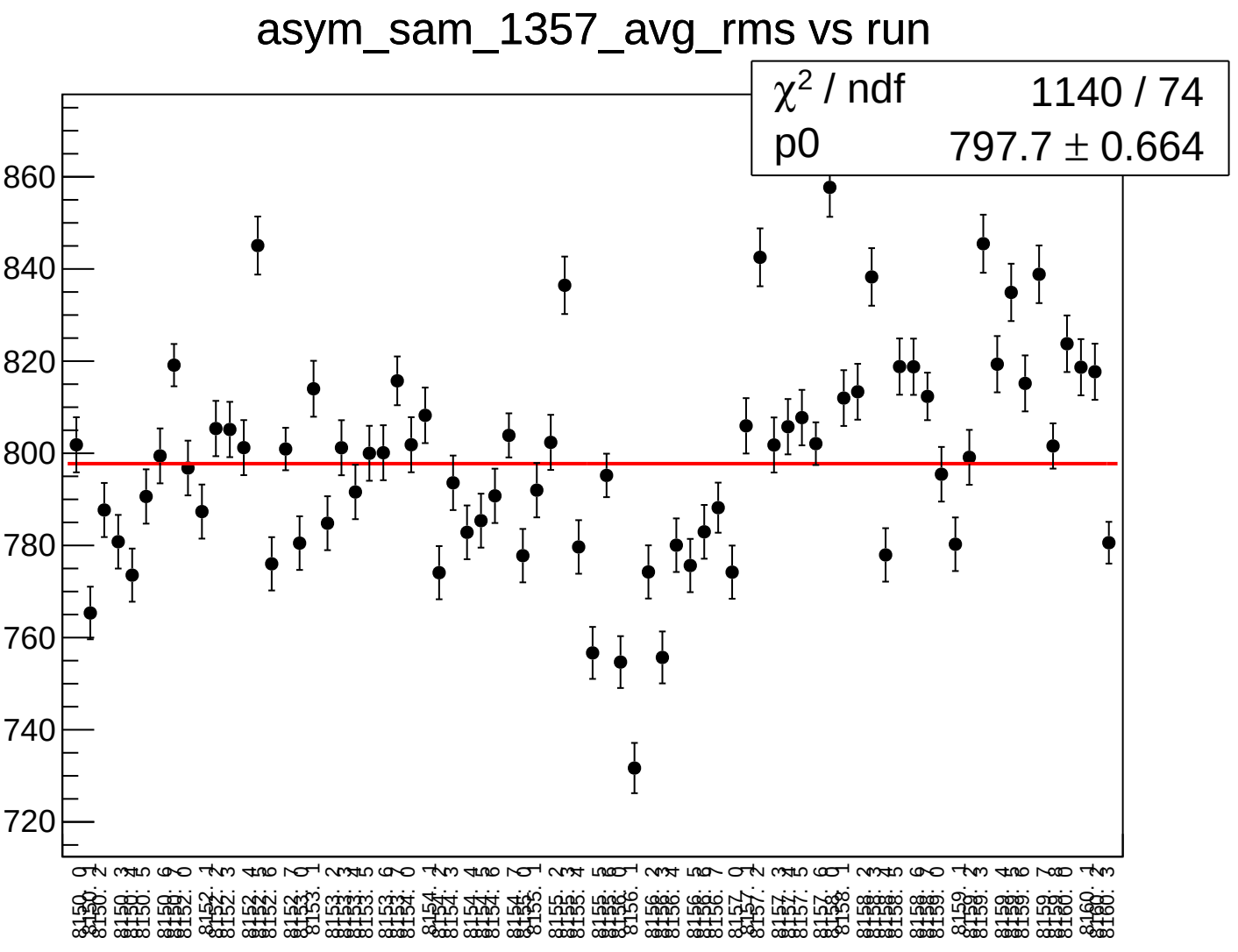

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 101.3 / 74
p0 −1073 ± 934
pull
Entries 75
Mean 1.612e+04
Std Dev 1.607e+04

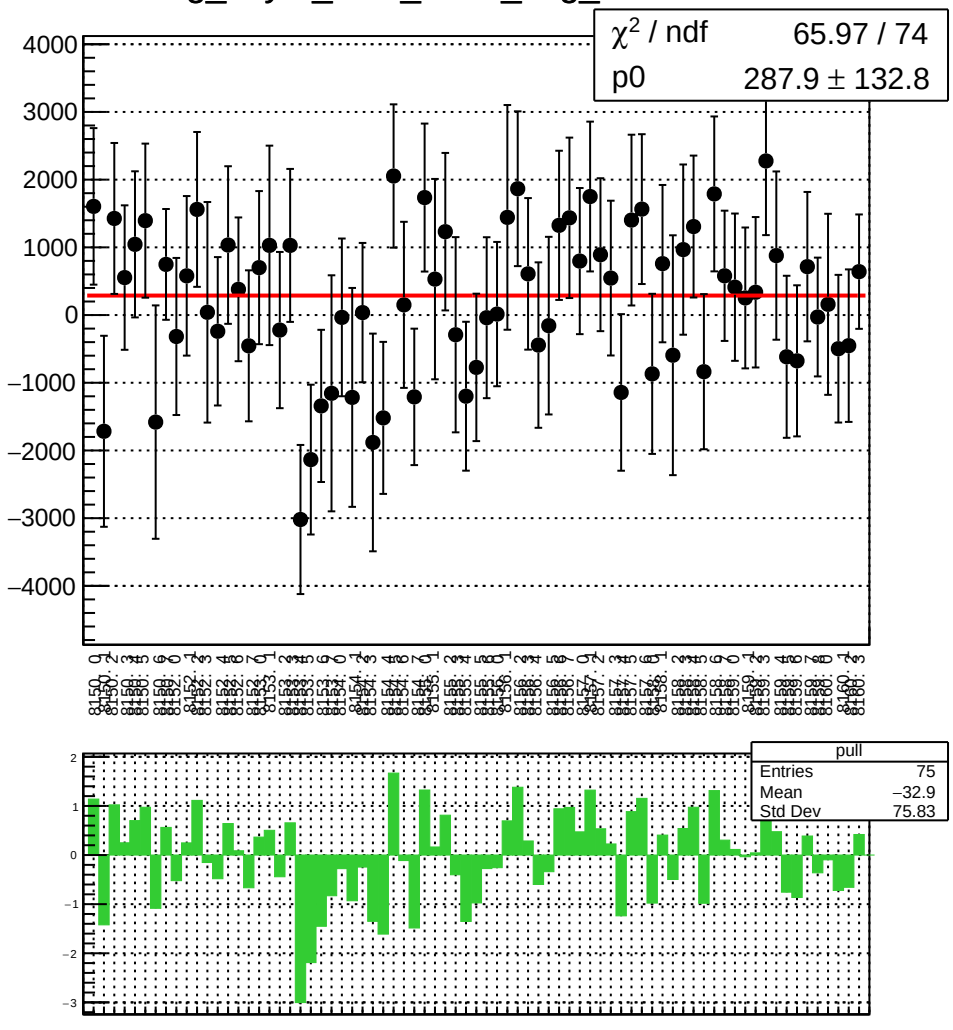

pull1D
Entries 75
Mean 0.0001061
Std Dev 1.162

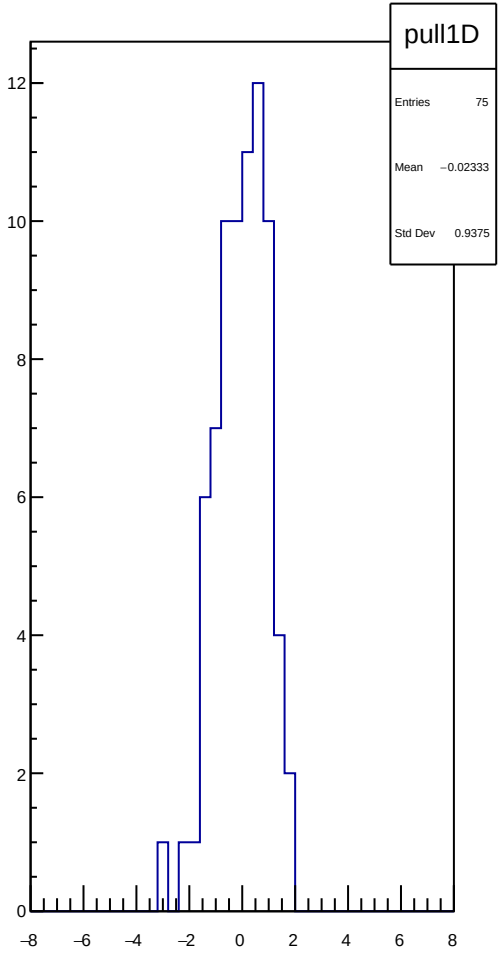

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 1157 / 74
p0 793.5 ± 0.6604
860
840
820
800
780
760
740
720

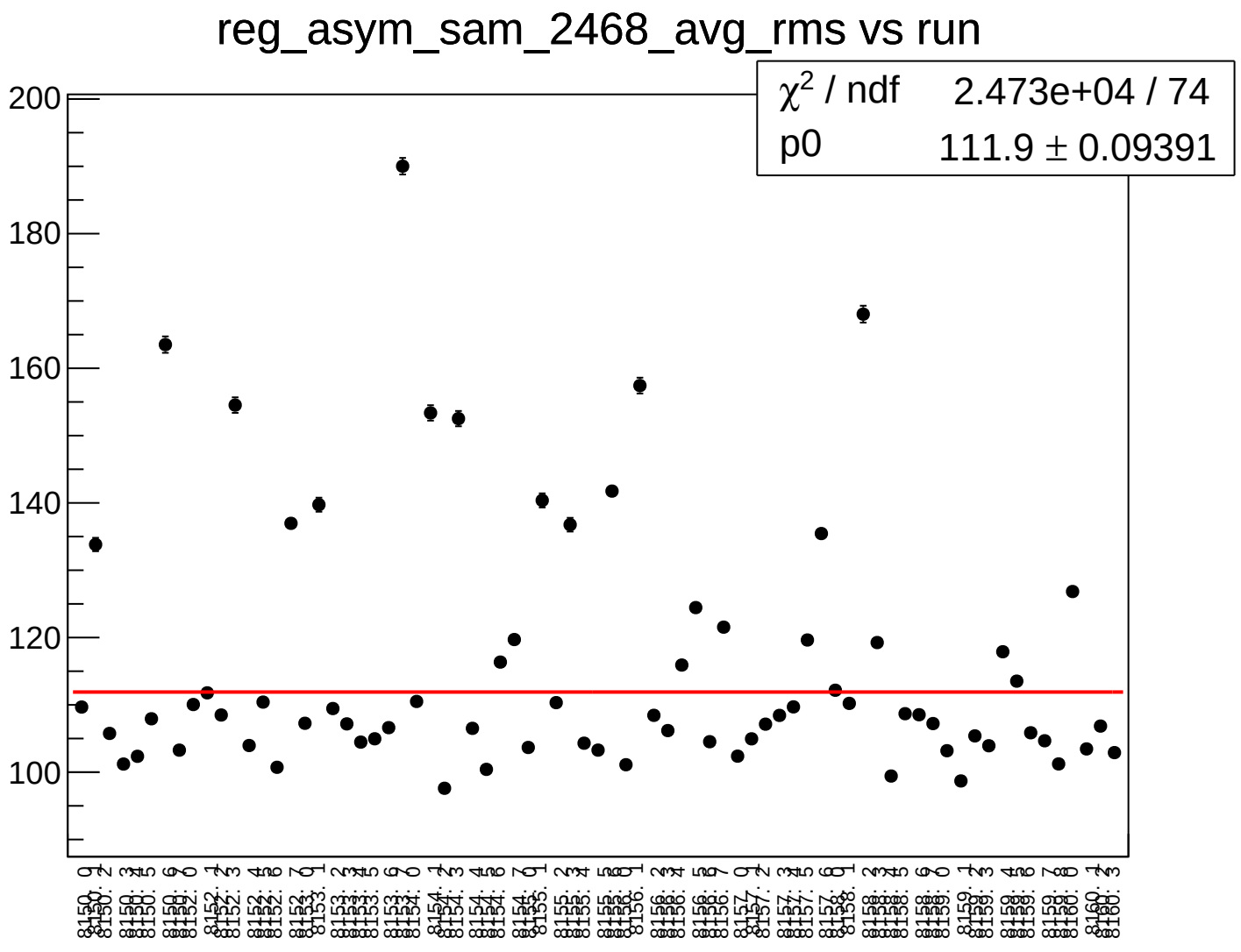

asym_sam_1357_avg_mean vs run
χ² / ndf 101.2 / 74
p0 1142 ± 939
pull
Entries 75
Mean −1.682e+04
Std Dev 1.687e+04

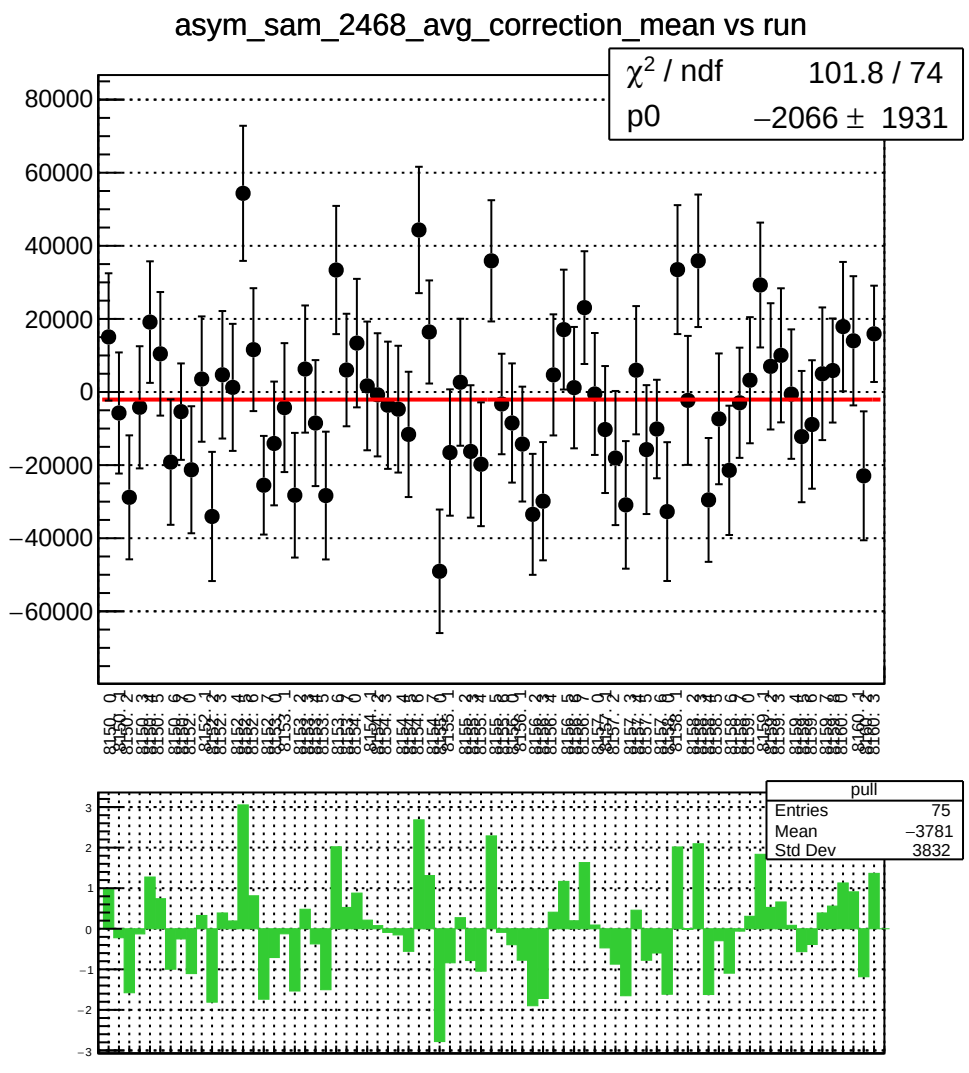

pull1D
Entries 75
Mean 8.36e−05
Std Dev 1.162

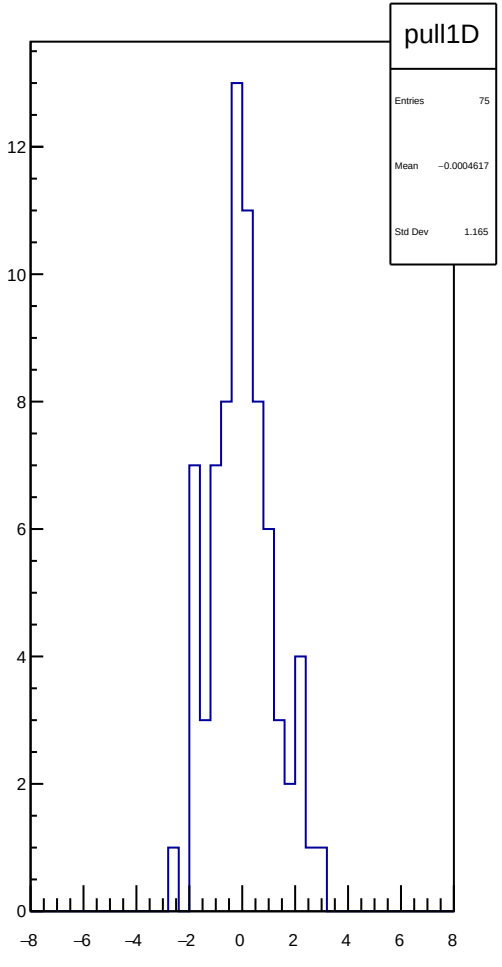

asym_sam_1357_avg_rms vs run
χ^2 / ndf 1140 / 74
p0 797.7 ± 0.664
860
840
820
800
780
760
740
720

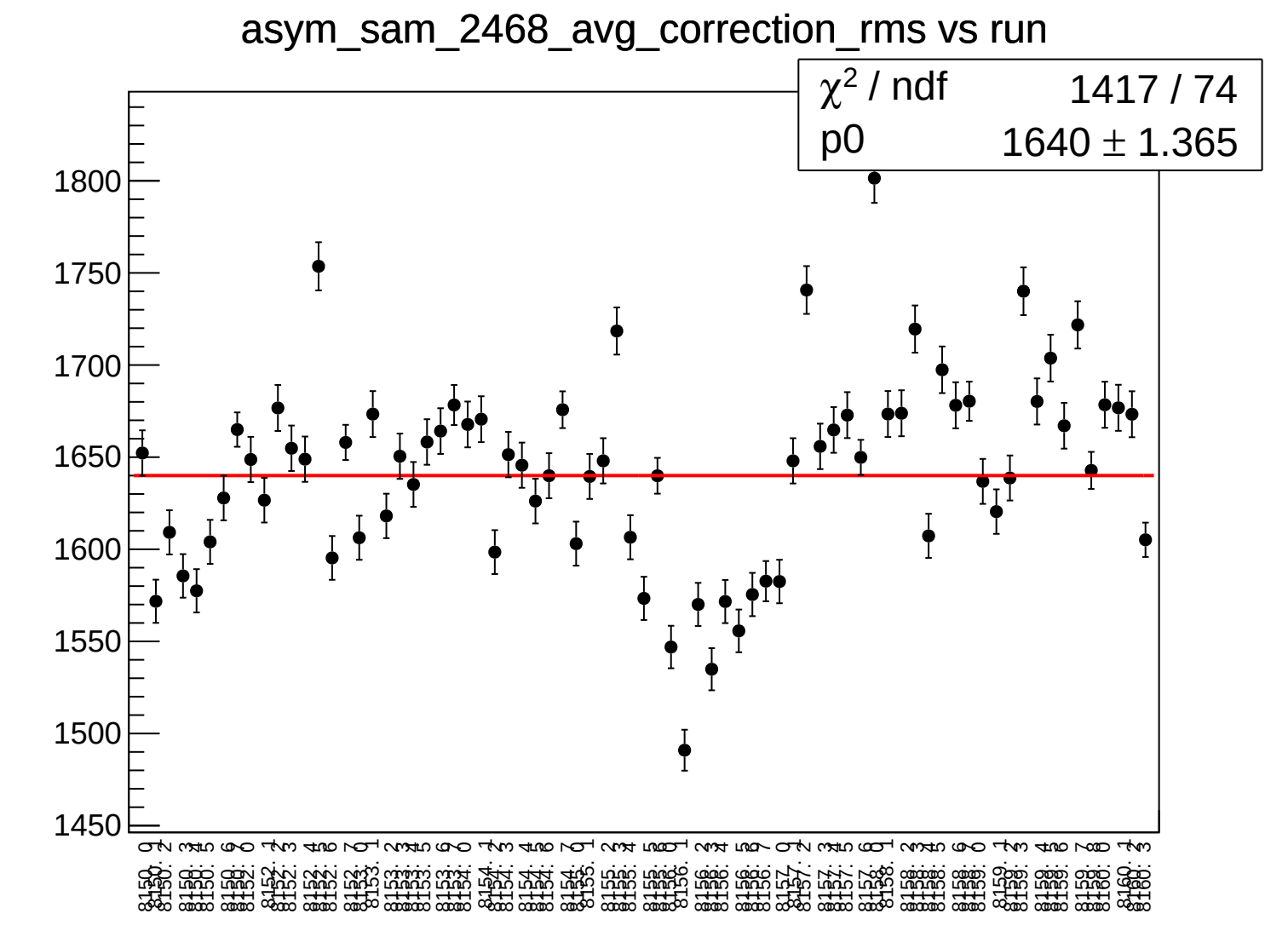

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 65.97 / 74
p0 287.9 ± 132.8
pull
Entries 75
Mean −32.9
Std Dev 75.83

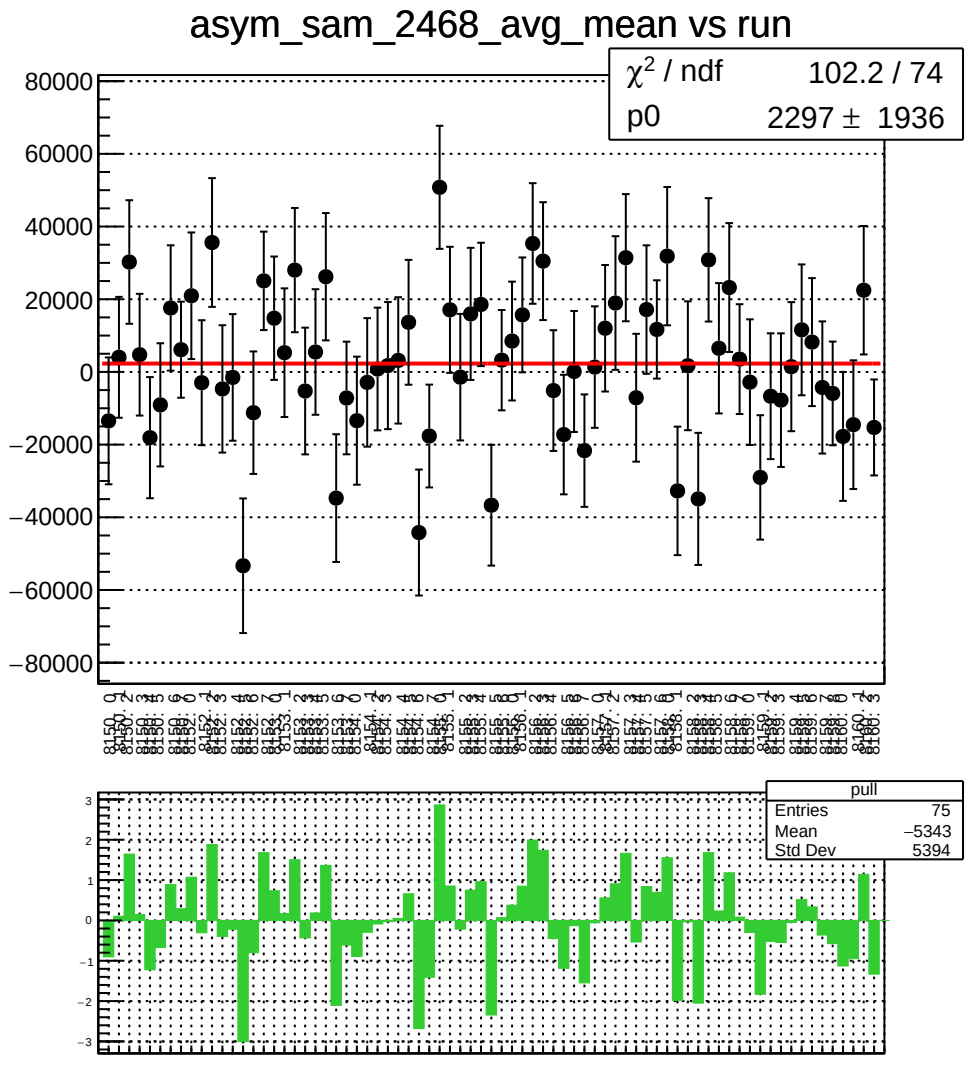

pull1D
Entries 75
Mean −0.02333
Std Dev 0.9375

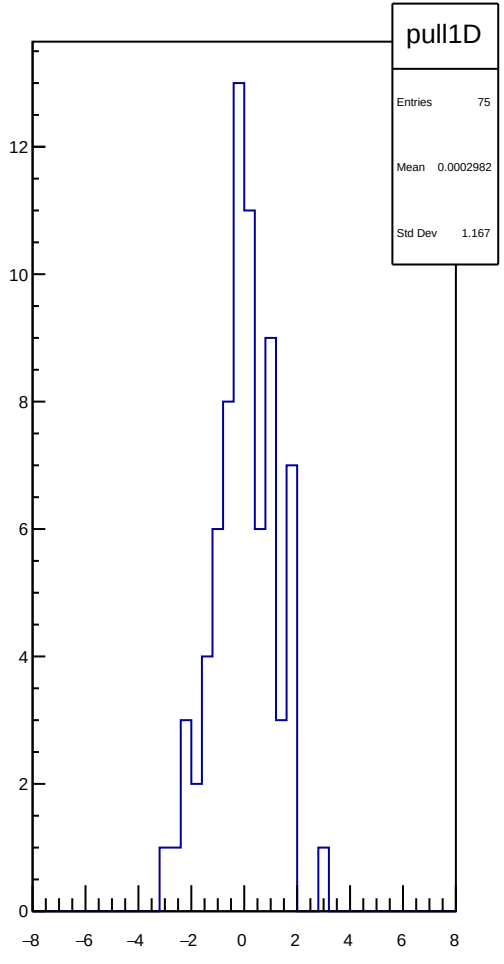

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 2.473e+04 / 74
p0 111.9 ± 0.09391
200
180
160
140
120
100

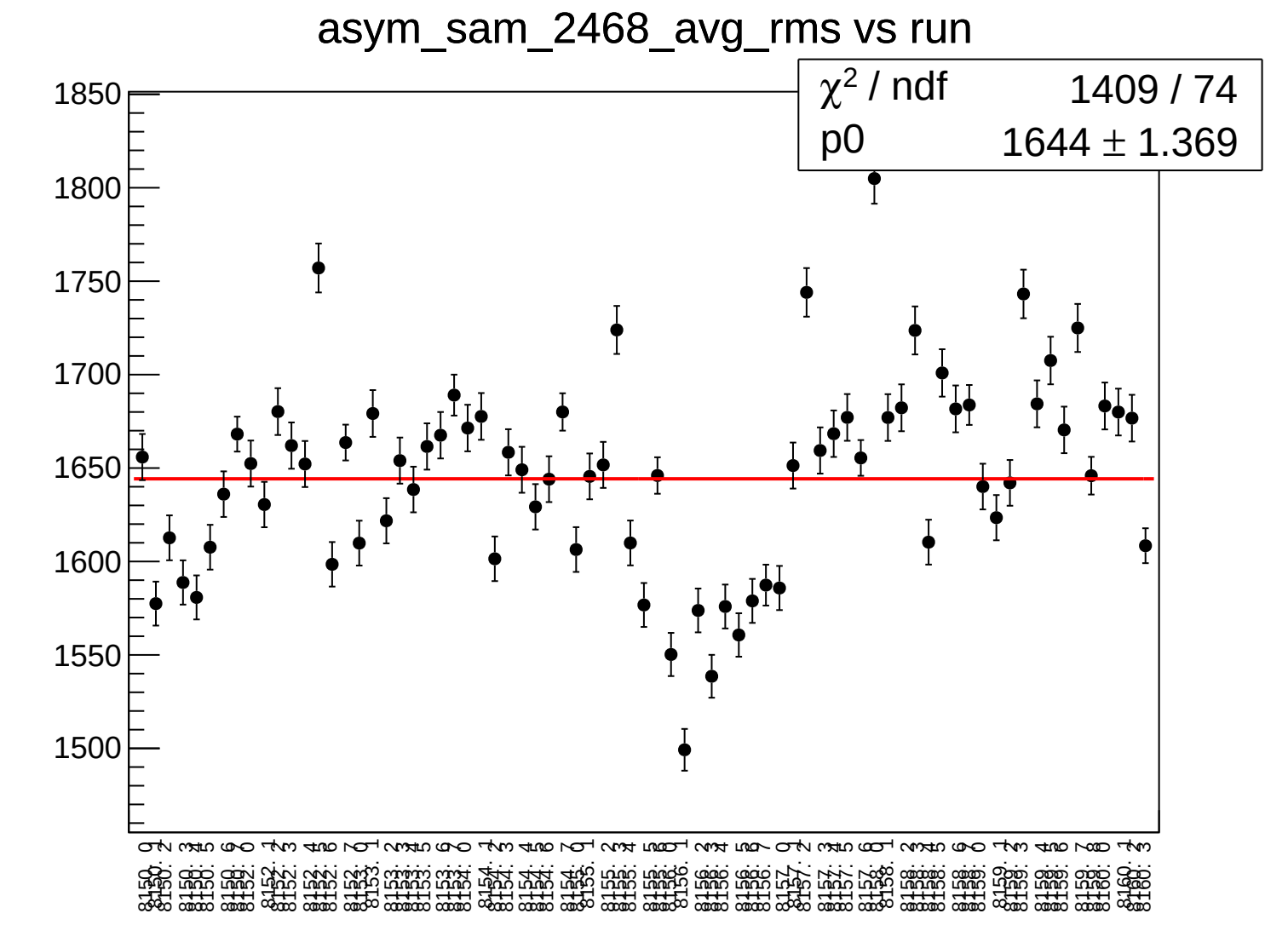

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 101.8 / 74
p0 −2066 ± 1931
pull
Entries 75
Mean −3781
Std Dev 3832

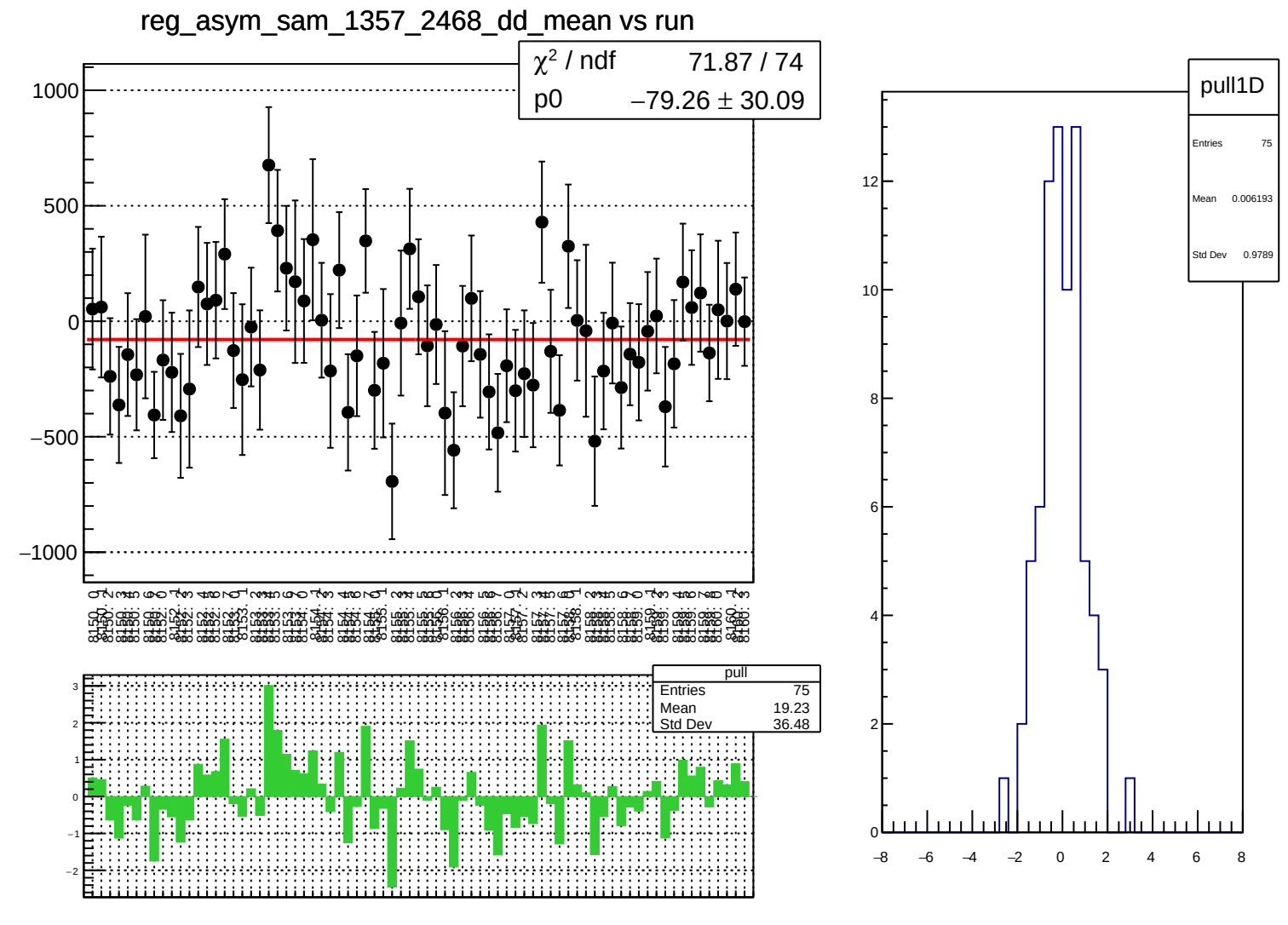

pull1D
Entries 75
Mean −0.0004617
Std Dev 1.165

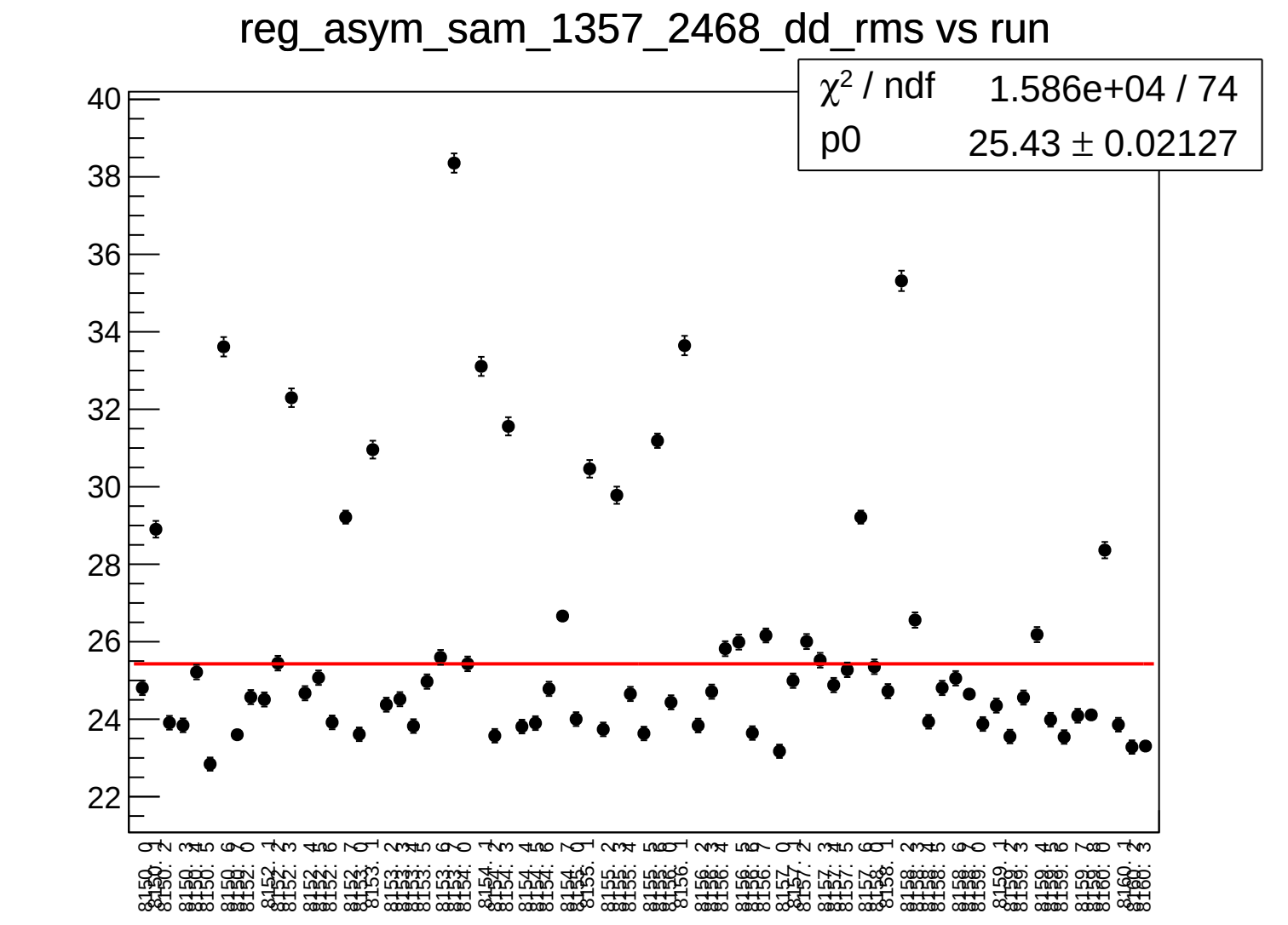

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 1417 / 74
p0 1640 ± 1.365
1800
1750
1700
1650
1600
1550
1500
1450

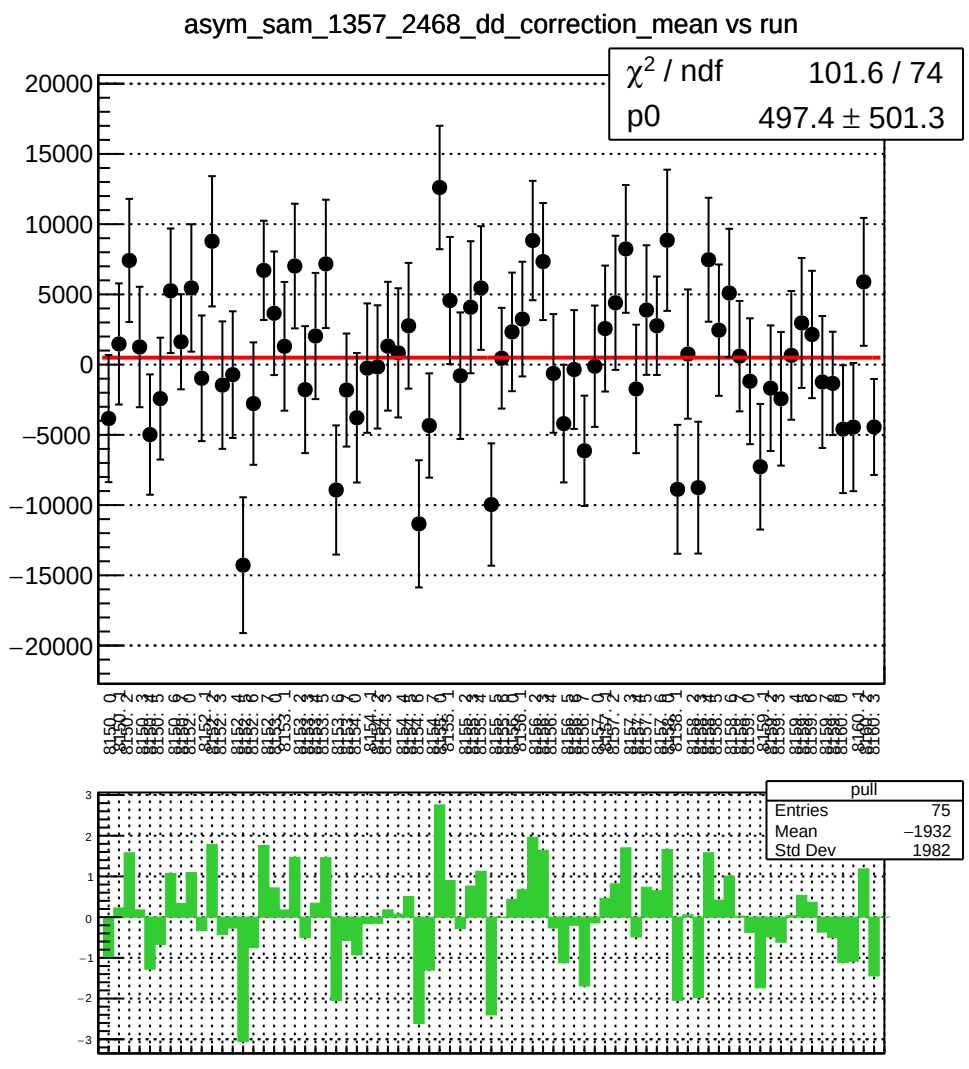

asym_sam_2468_avg_mean vs run
χ² / ndf 102.2 / 74
p0 2297 ± 1936
pull
Entries 75
Mean −5343
Std Dev 5394

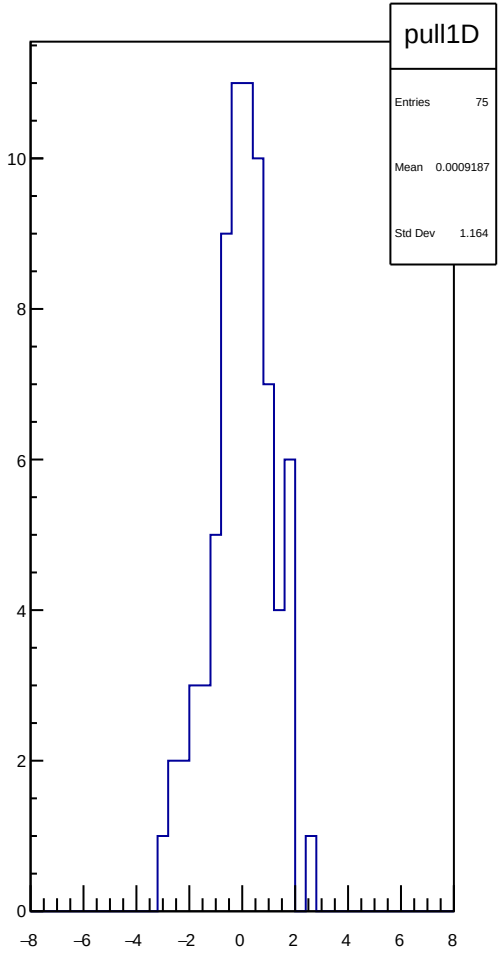

pull1D
Entries 75
Mean 0.0002982
Std Dev 1.167

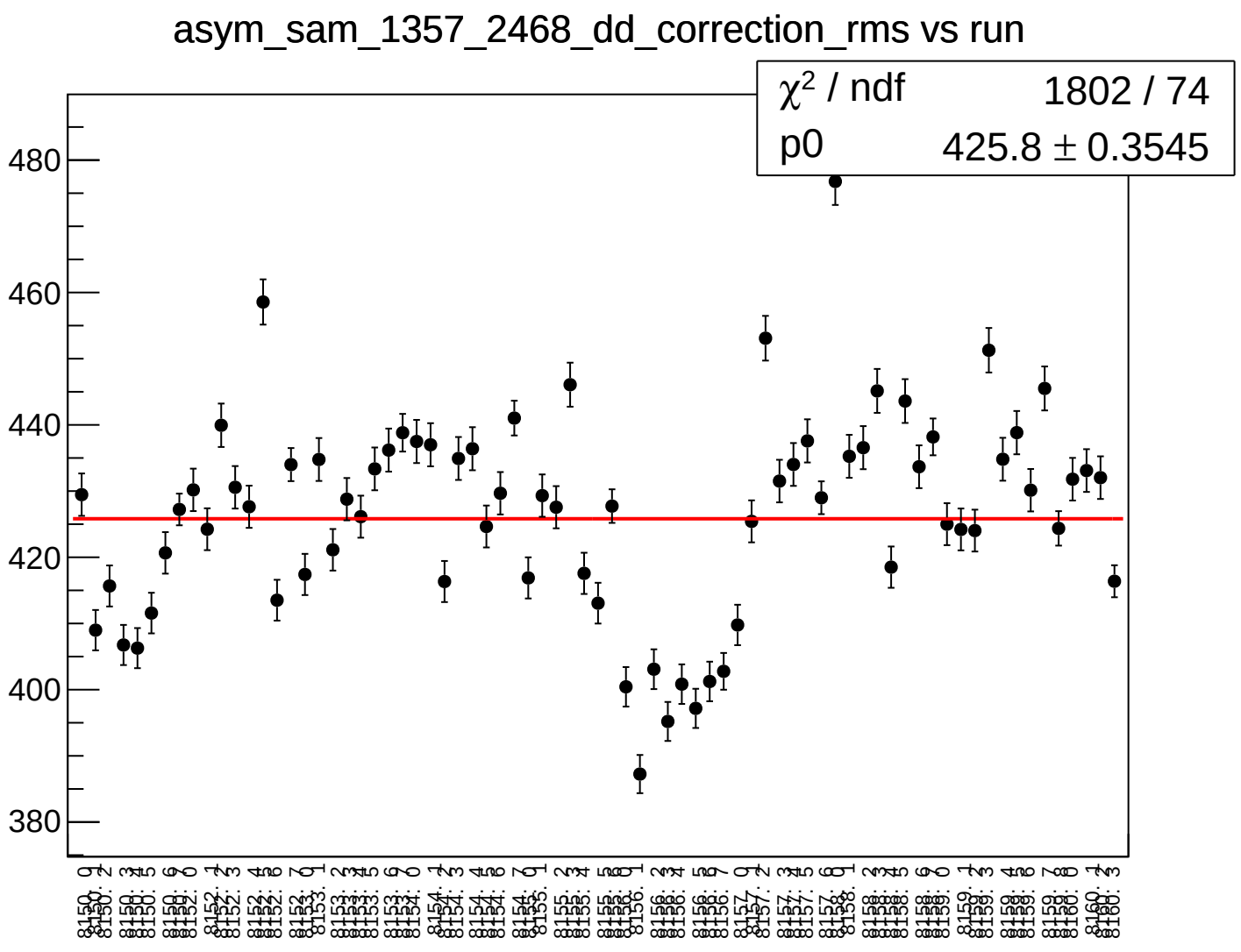

asym_sam_2468_avg_rms vs run
χ² / ndf 1409 / 74
p0 1644 ± 1.369
1850
1800
1750
1700
1650
1600
1550
1500

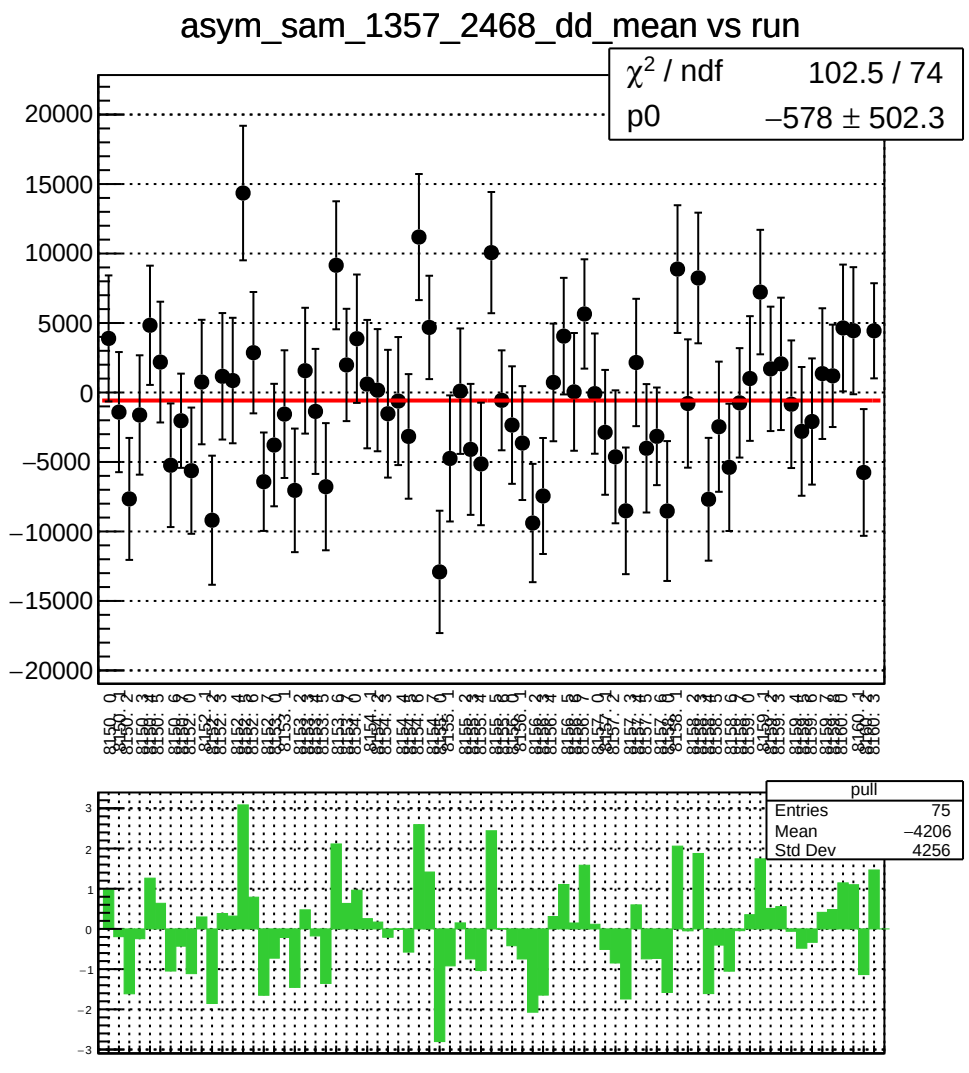

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 71.87 / 74
p0 −79.26 ± 30.09
1000
500
0
−500
−1000
pull
Entries 75
Mean 19.23
Std Dev 36.48
pull1D
Entries 75
Mean 0.006193
Std Dev 0.9789

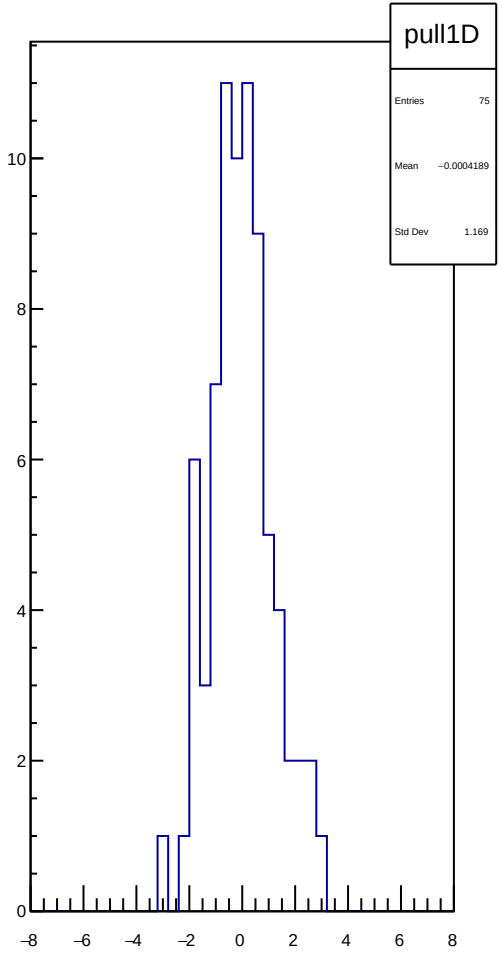

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.586e+04 / 74
p0 25.43 ± 0.02127
40
38
36
34
32
30
28
26
24
22

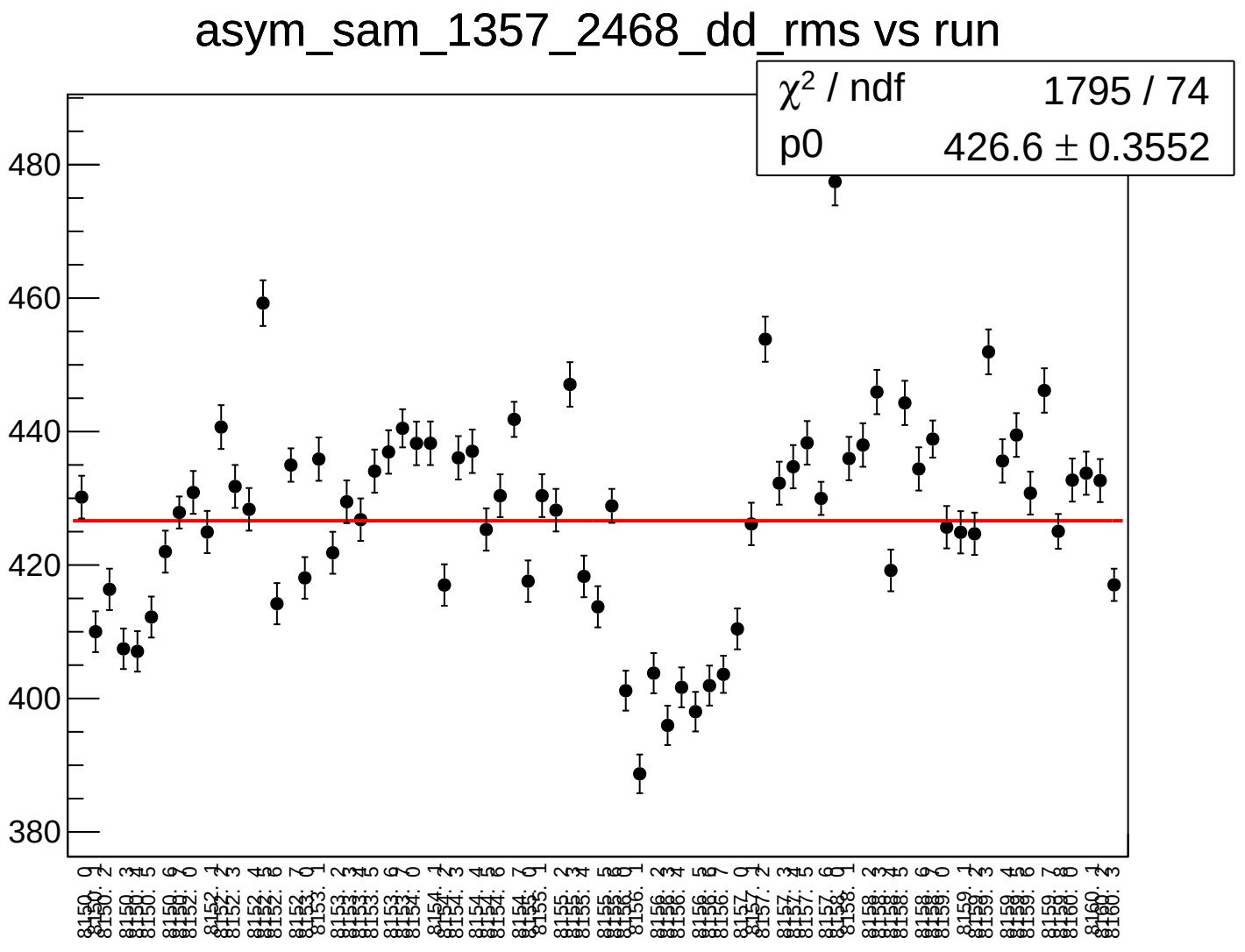

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 101.6 / 74
p0 497.4 ± 501.3
pull
Entries 75
Mean −1932
Std Dev 1982

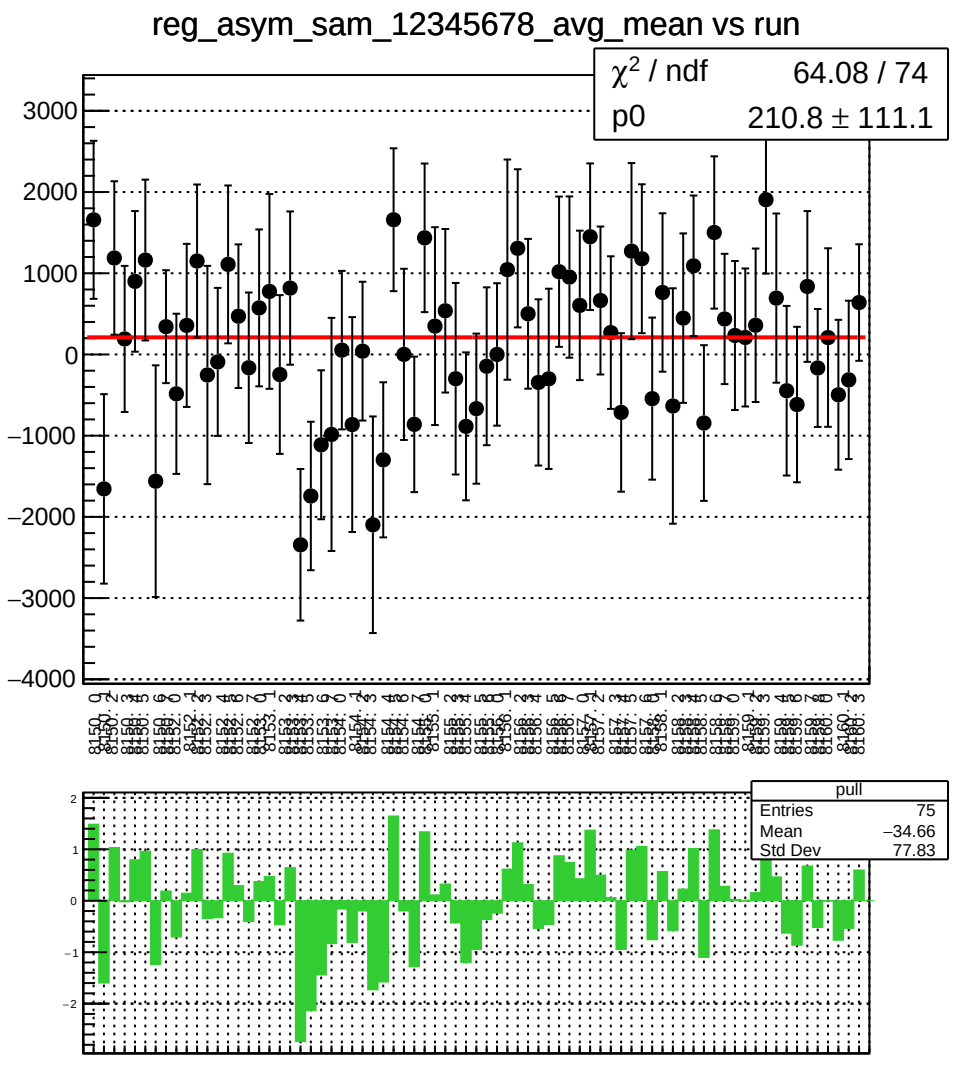

pull1D
Entries 75
Mean 0.0009187
Std Dev 1.164

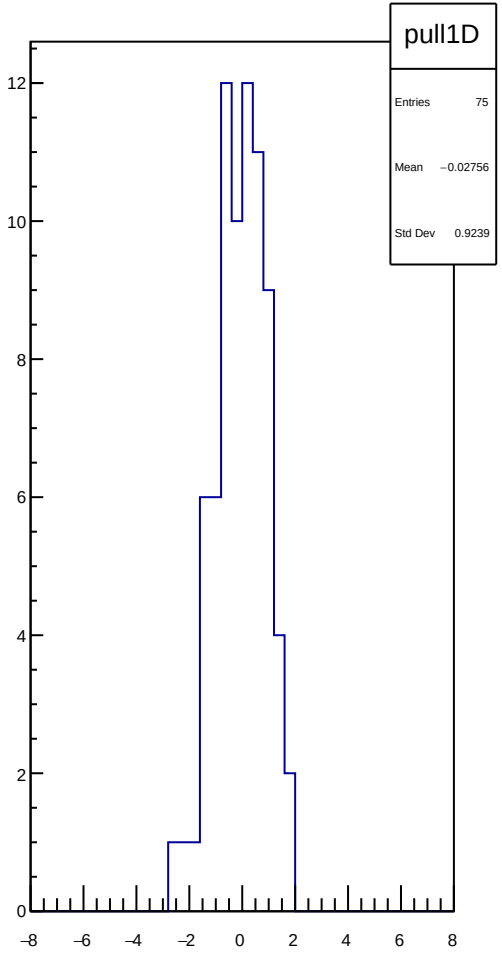

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1802 / 74
p0 425.8 ± 0.3545
480
460
440
420
400
380

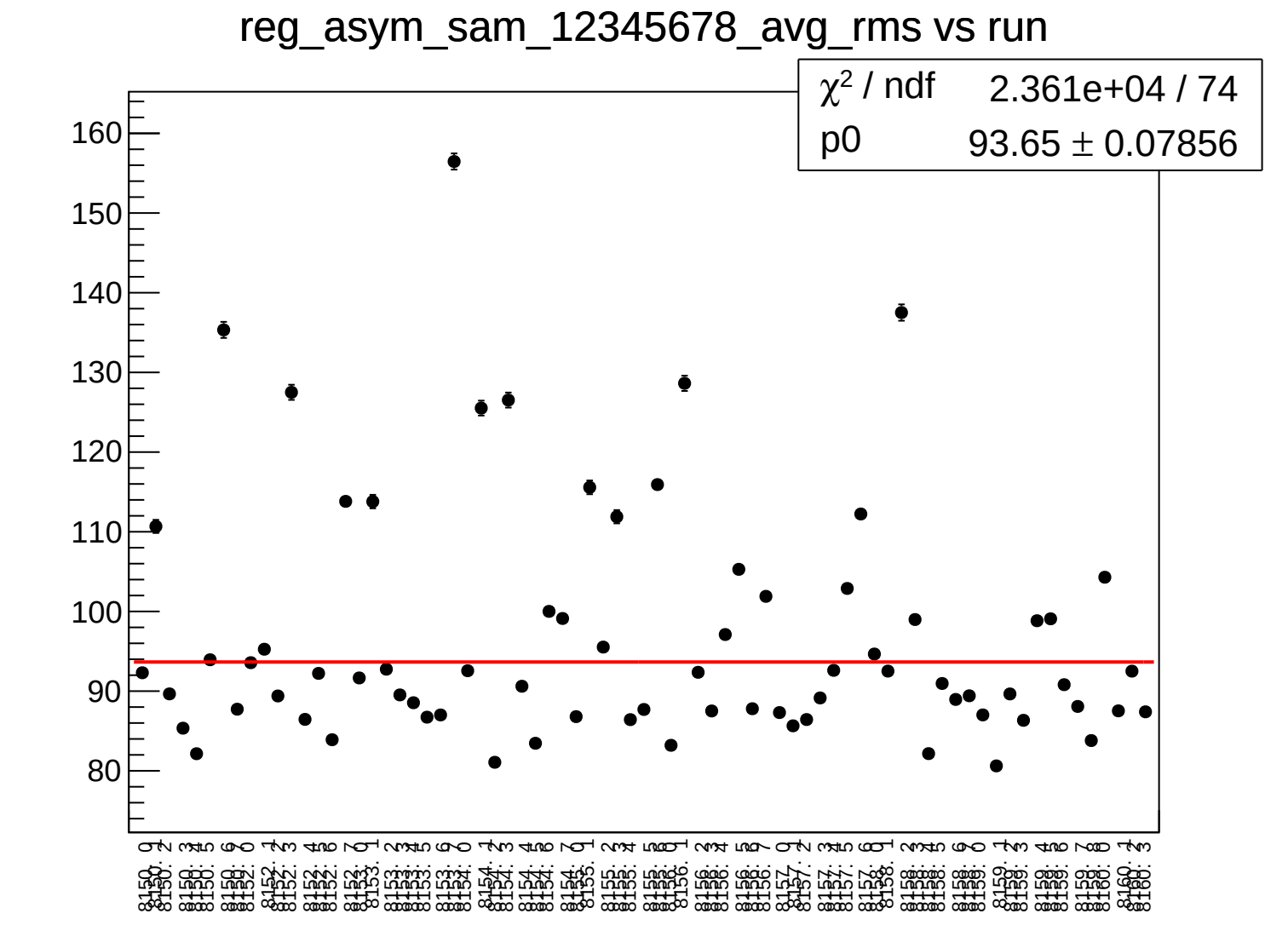

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 102.5 / 74
p0 −578 ± 502.3
pull
Entries 75
Mean −4206
Std Dev 4256

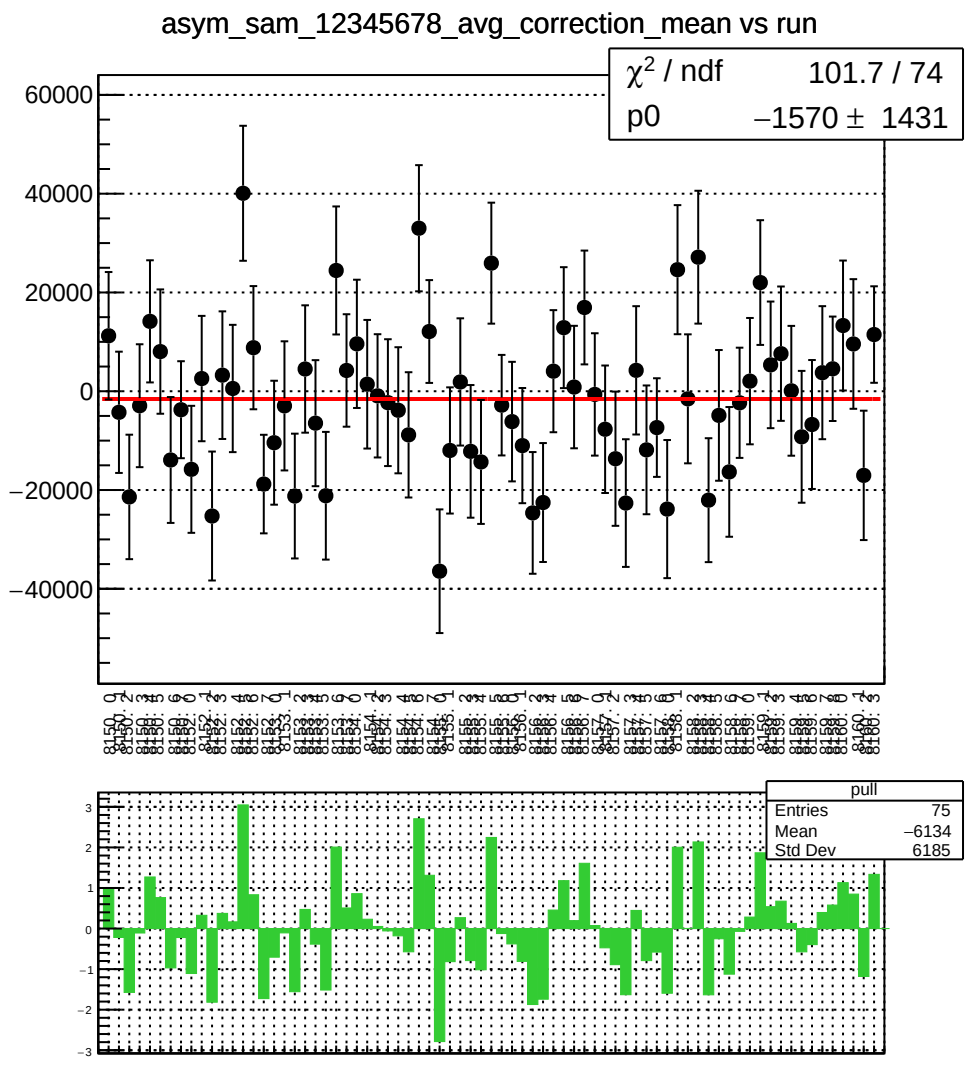

pull1D
Entries 75
Mean −0.0004189
Std Dev 1.169

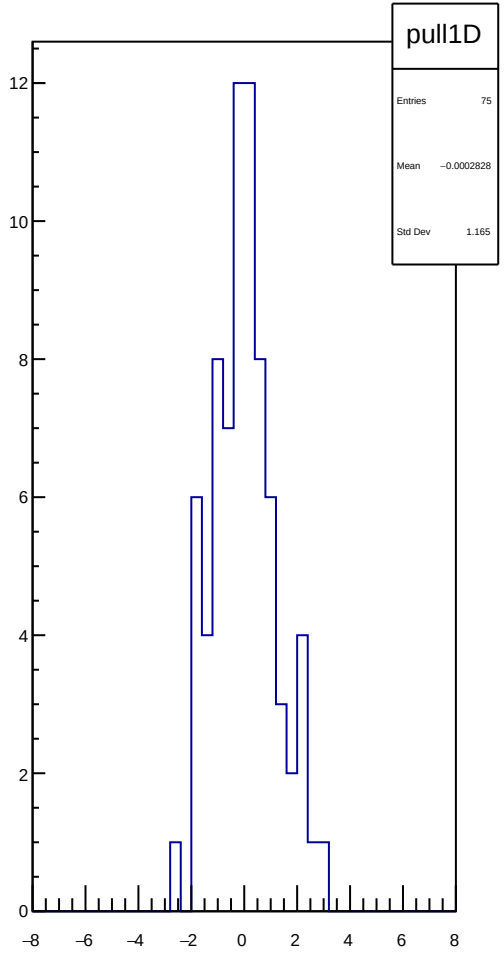

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1795 / 74
p0 426.6 ± 0.3552
480
460
440
420
400
380

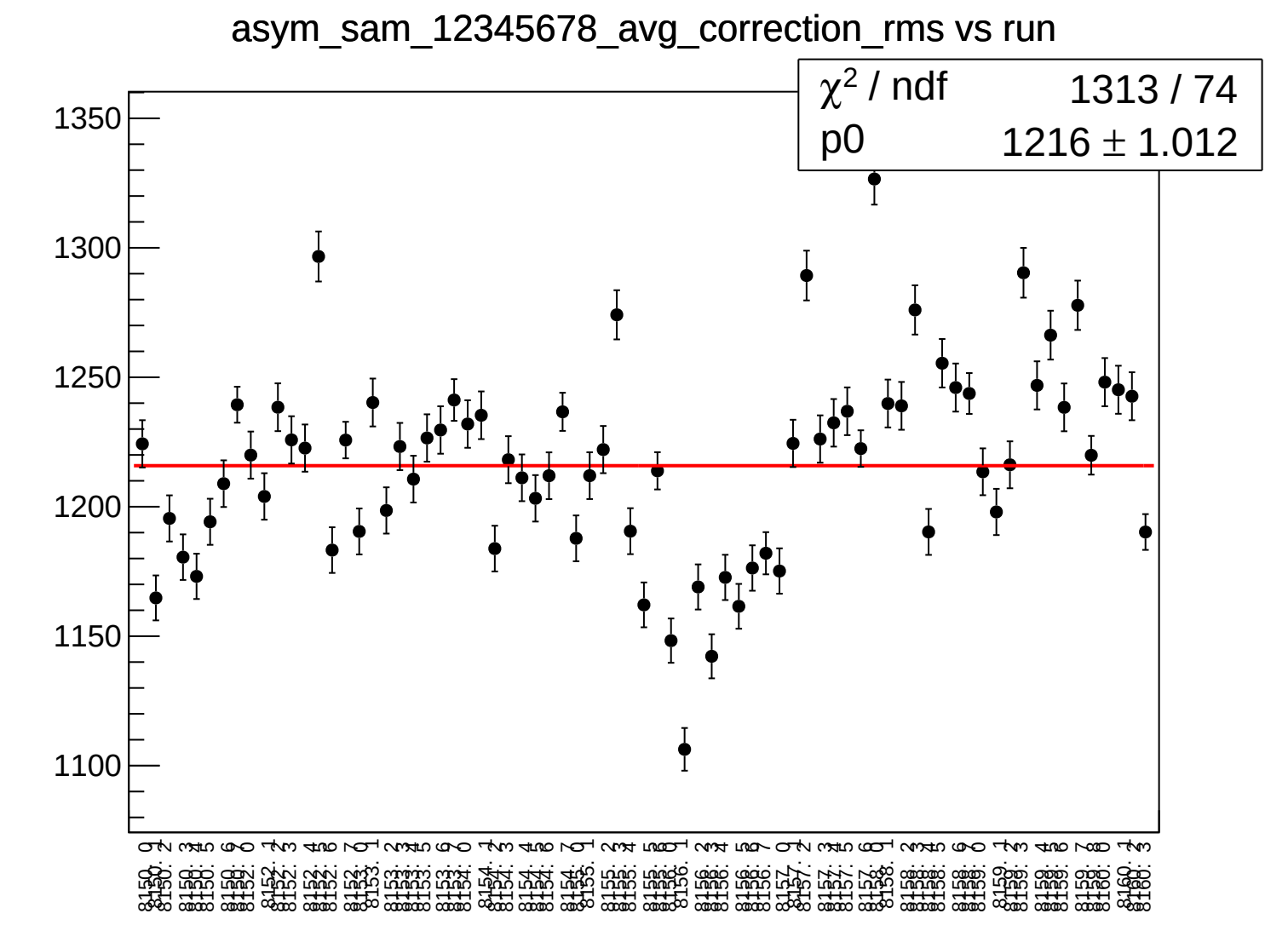

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 64.08 / 74
p0 210.8 ± 111.1
pull
Entries 75
Mean −34.66
Std Dev 77.83

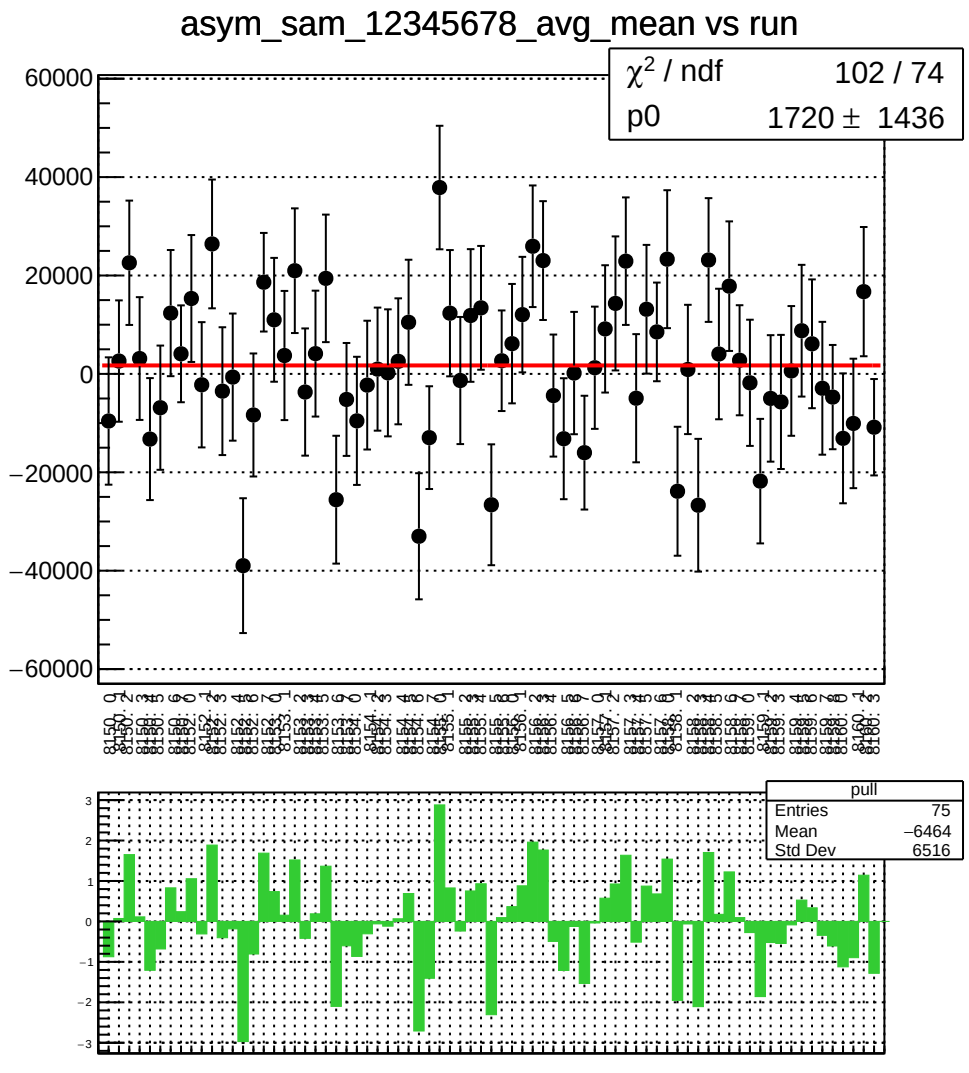

pull1D
Entries 75
Mean −0.02756
Std Dev 0.9239

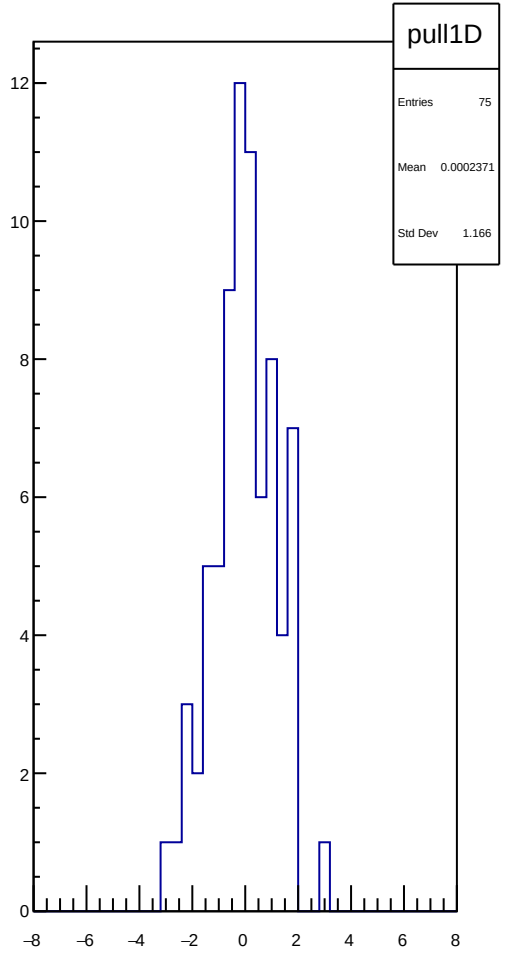

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 2.361e+04 / 74
p0 93.65 ± 0.07856
160
150
140
130
120
110
100
90
80

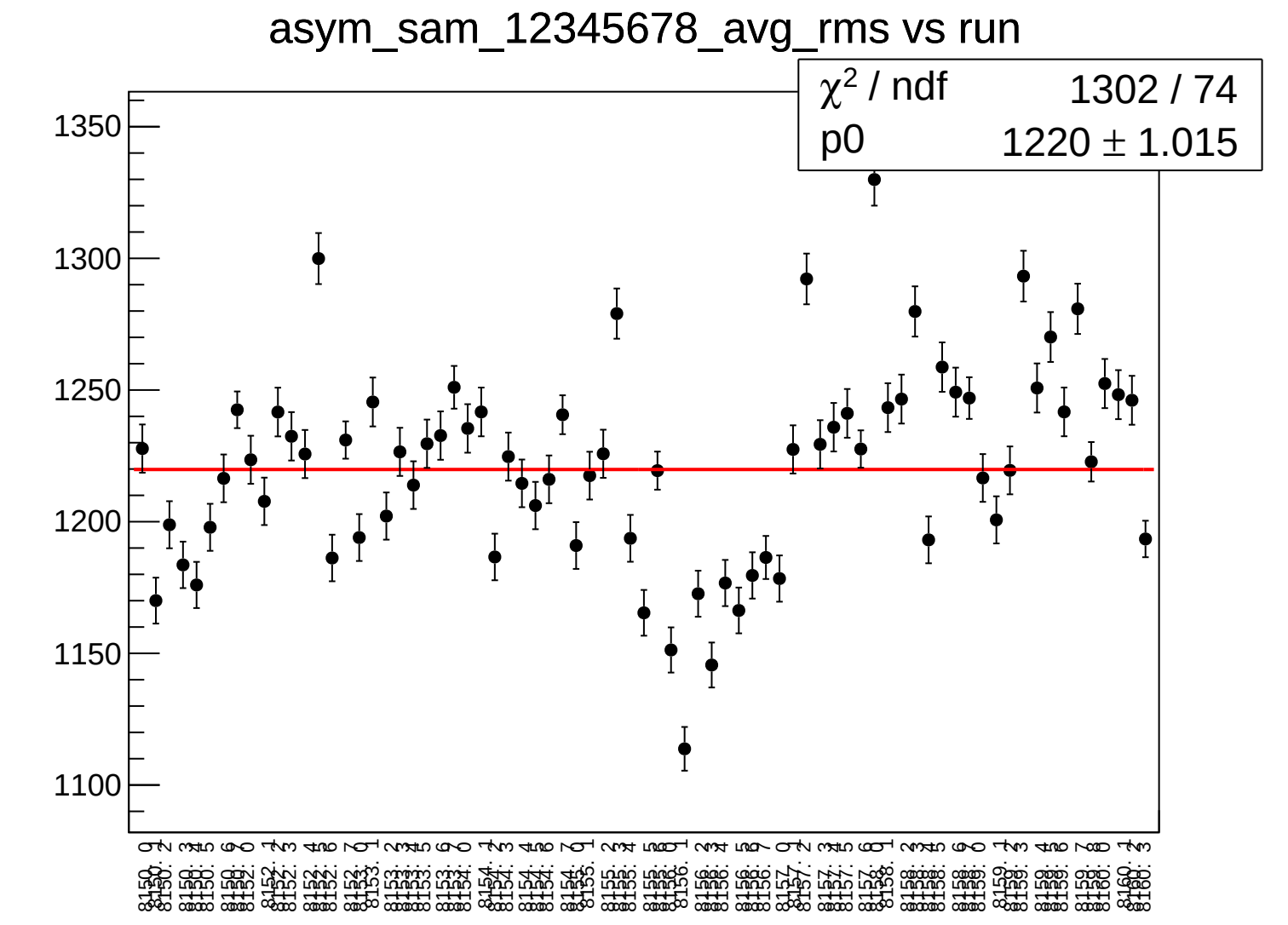

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 101.7 / 74
p0 −1570 ± 1431
pull
Entries 75
Mean −6134
Std Dev 6185

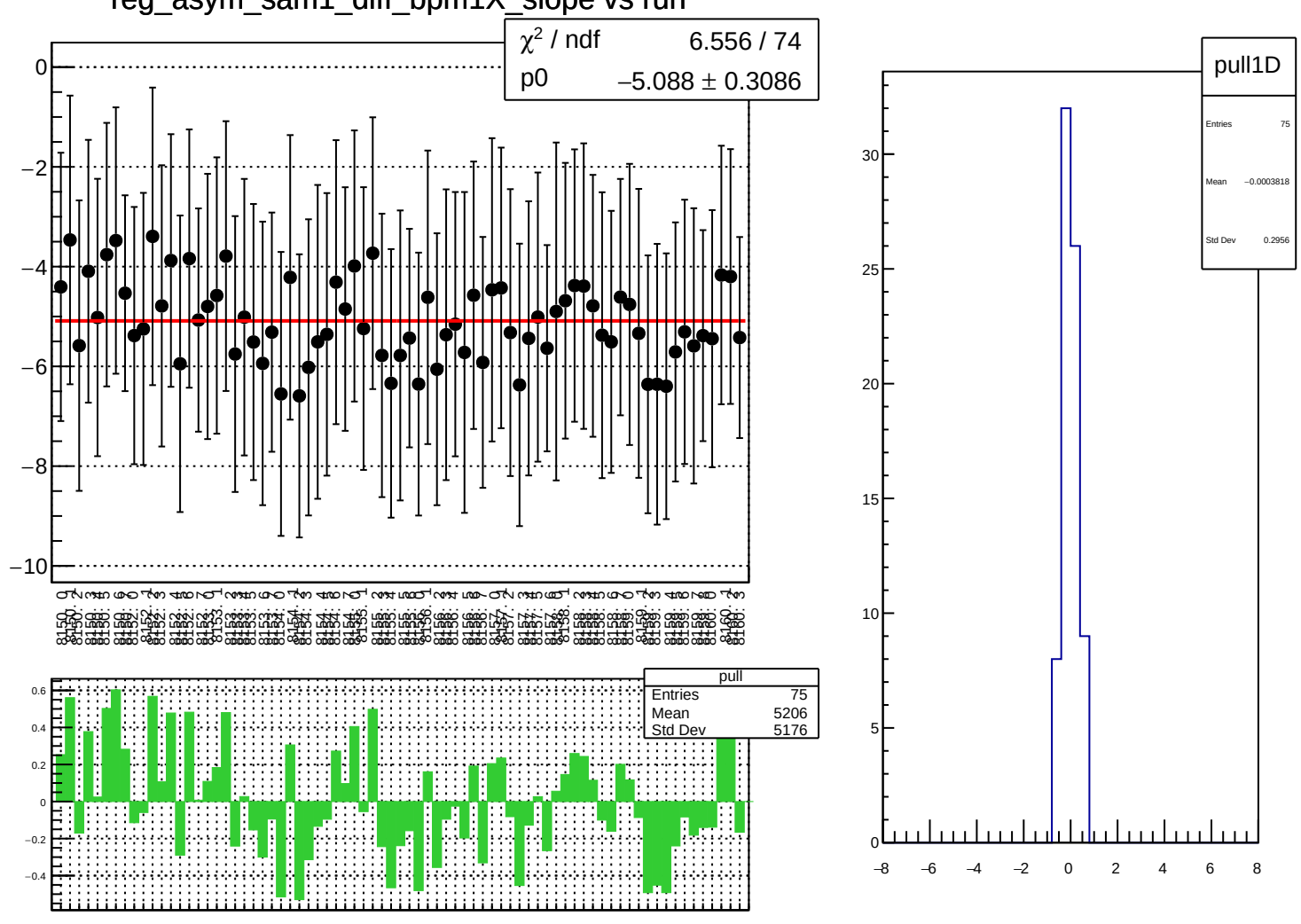

pull1D
Entries 75
Mean −0.0002828
Std Dev 1.165

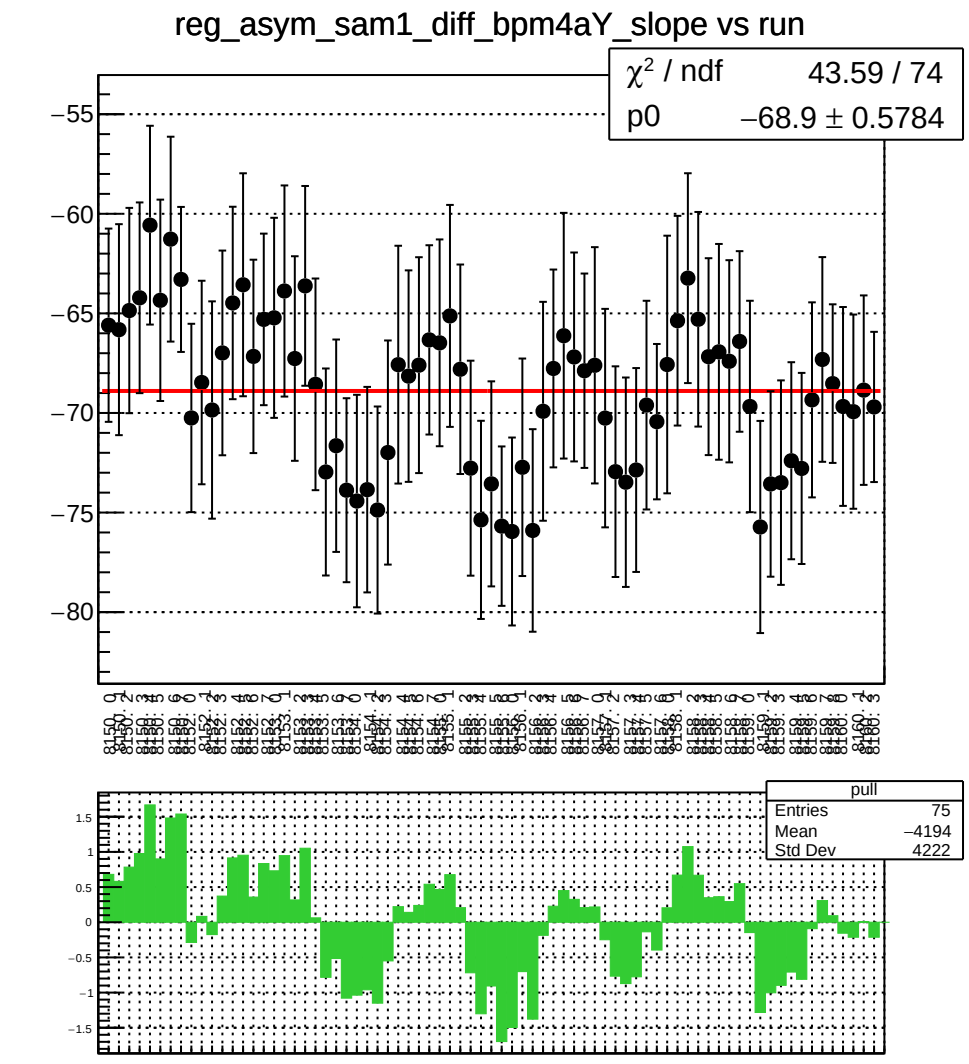

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 1313 / 74
p0 1216 ± 1.012
1350
1300
1250
1200
1150
1100

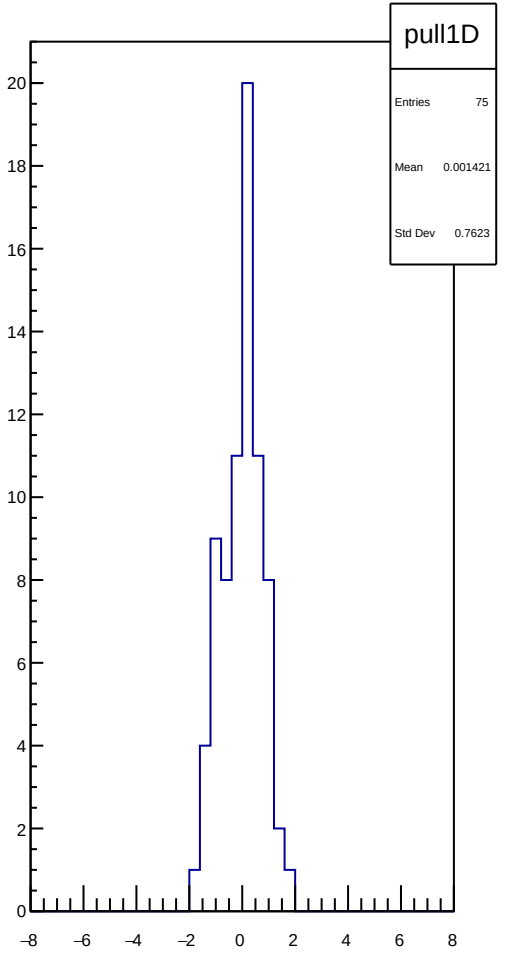

asym_sam_12345678_avg_mean vs run
χ² / ndf 102 / 74
p0 1720 ± 1436
pull
Entries 75
Mean −6464
Std Dev 6516

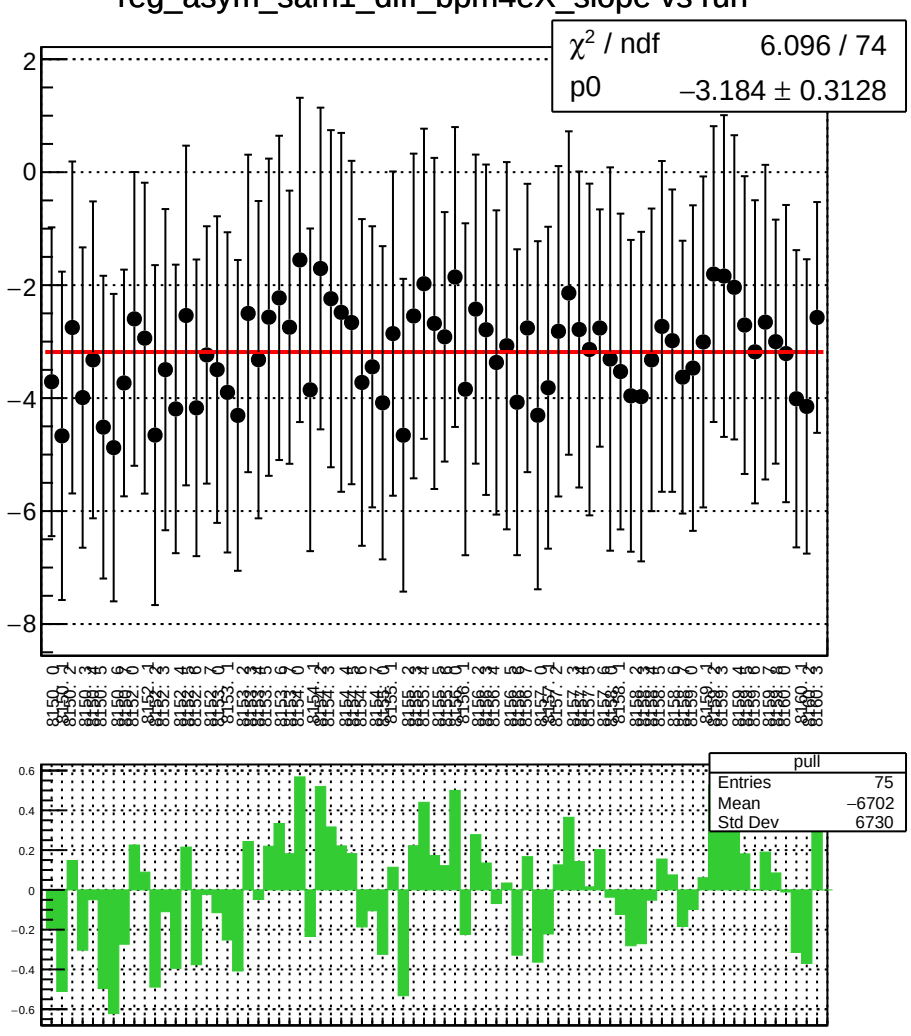

pull1D
Entries 75
Mean 0.0002371
Std Dev 1.166

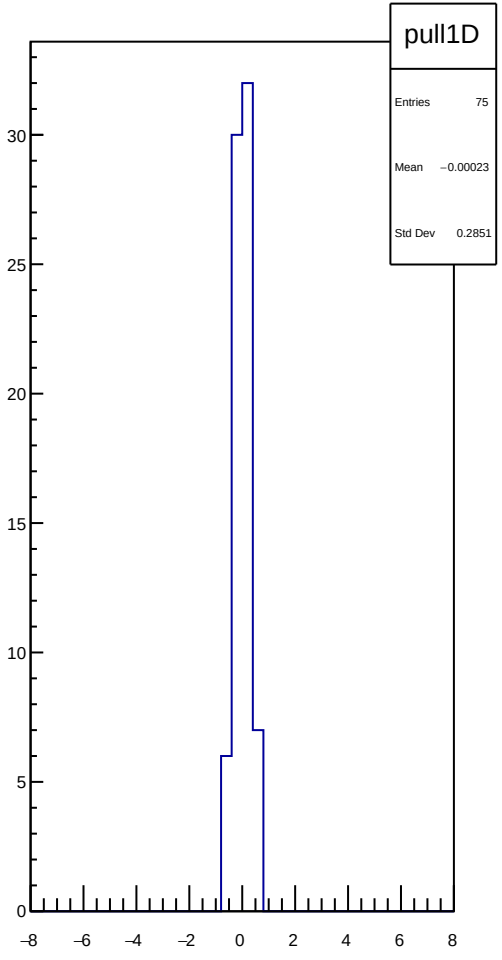

asym_sam_12345678_avg_rms vs run
χ² / ndf 1302 / 74
p0 1220 ± 1.015
1350
1300
1250
1200
1150
1100

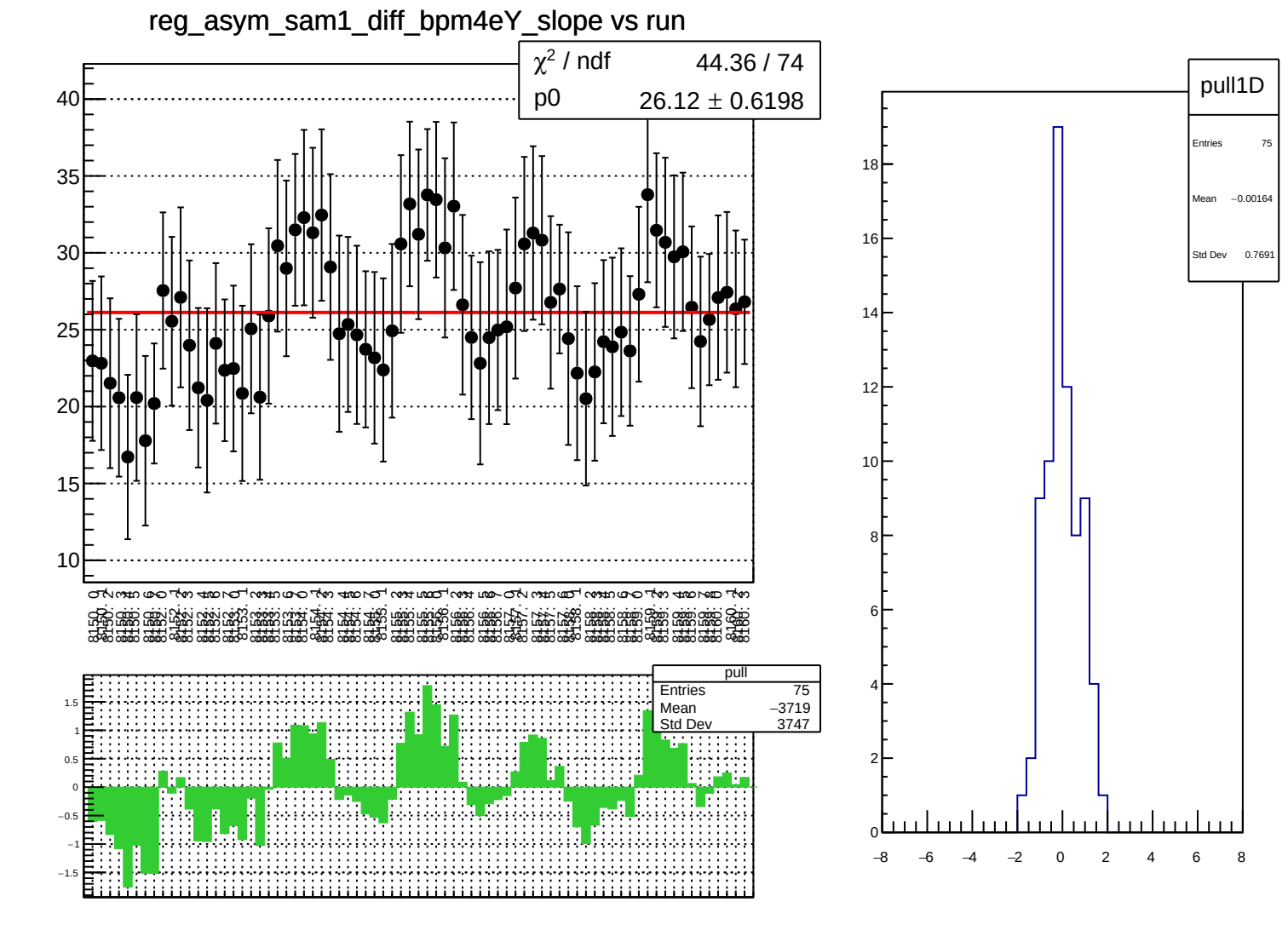

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 6.556 / 74
p0 −5.088 ± 0.3086
pull
Entries 75
Mean 5206
Std Dev 5176
pull1D
Entries 75
Mean −0.0003818
Std Dev 0.2956

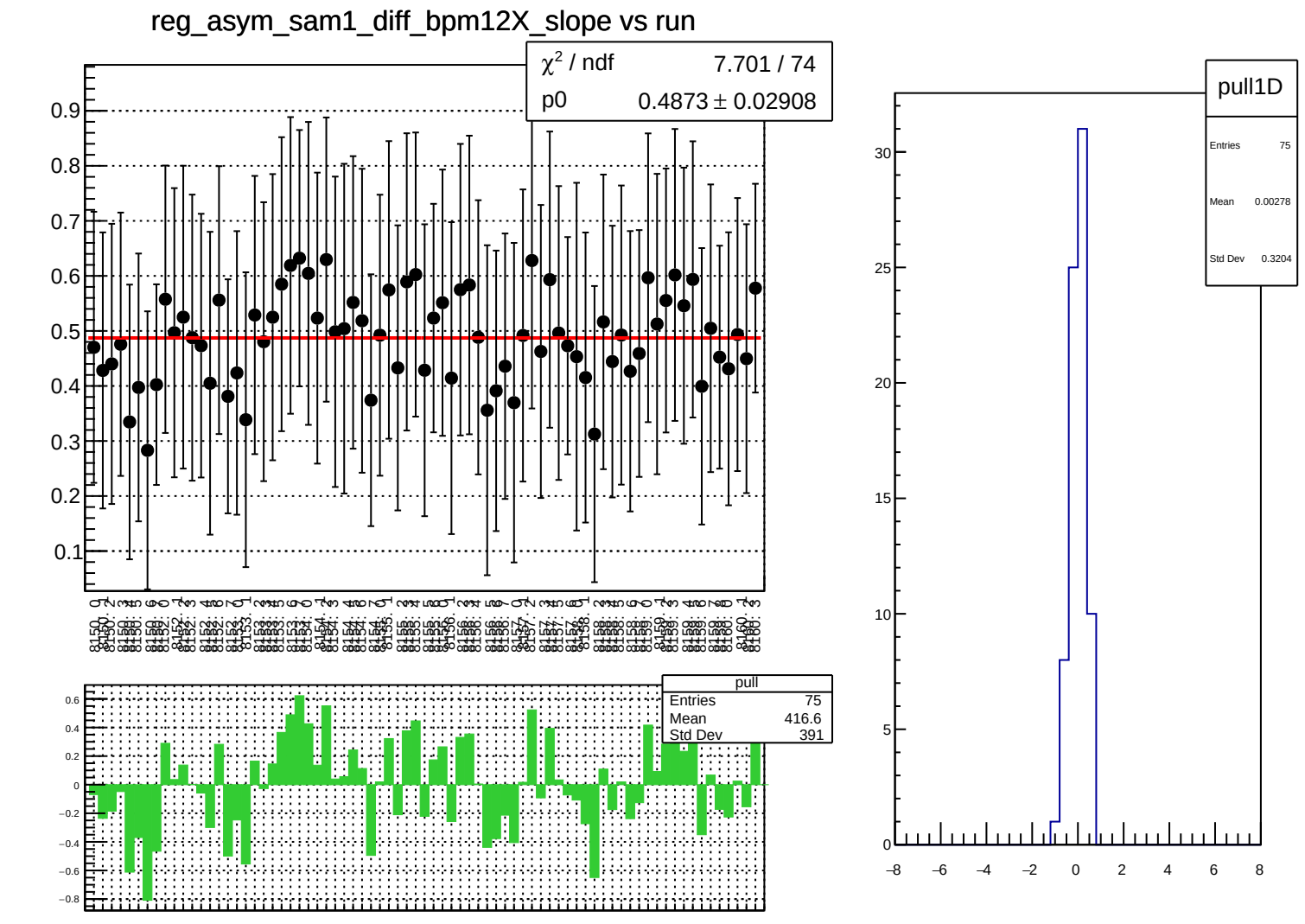

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 43.59 / 74
p0 −68.9 ± 0.5784
pull
Entries 75
Mean −4194
Std Dev 4222

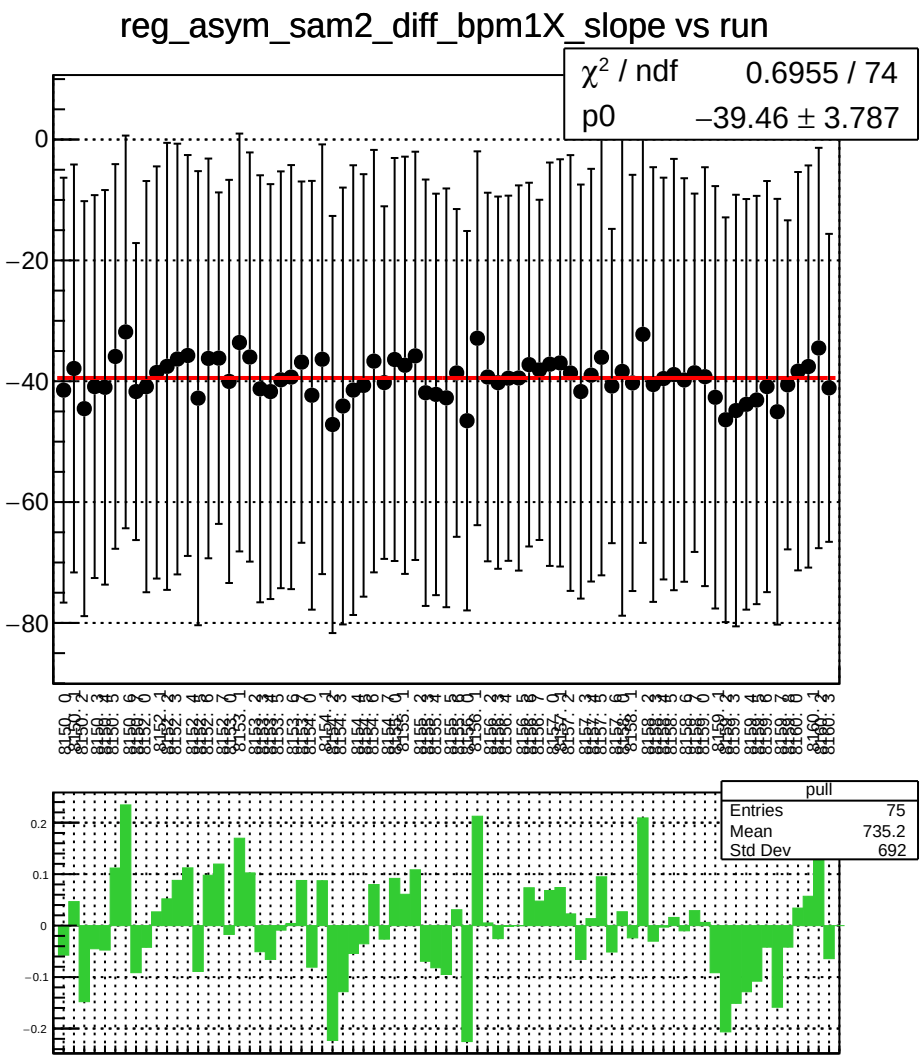

pull1D
Entries 75
Mean 0.001421
Std Dev 0.7623

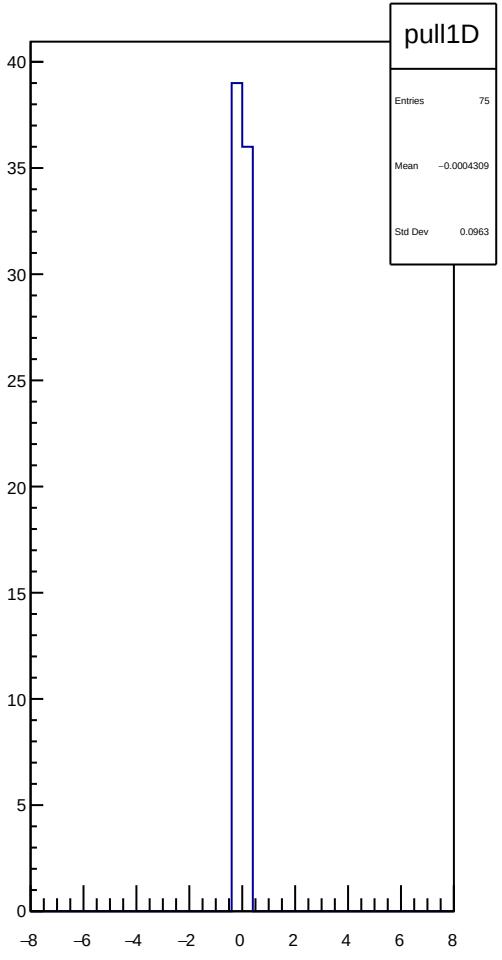

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 6.096 / 74
p0 −3.184 ± 0.3128
pull
Entries 75
Mean −6702
Std Dev 6730

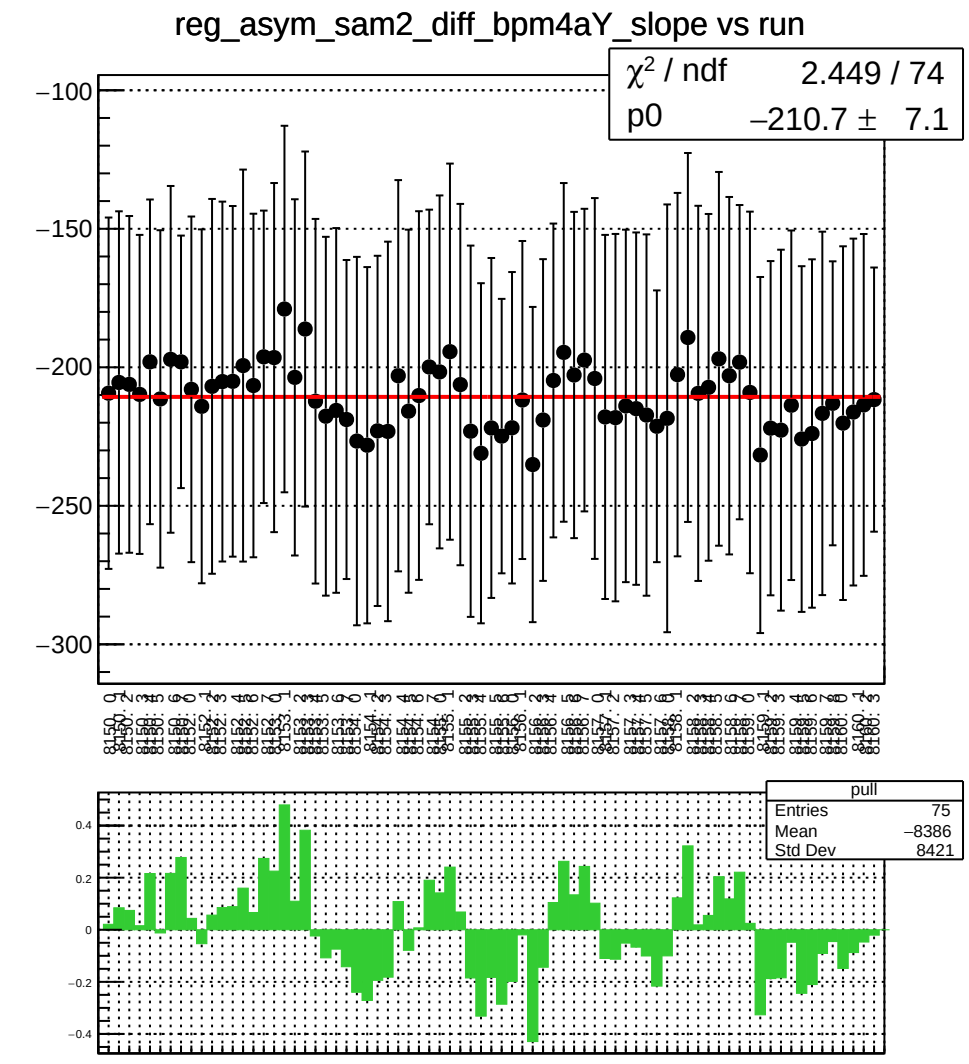

pull1D
Entries 75
Mean −0.00023
Std Dev 0.2851

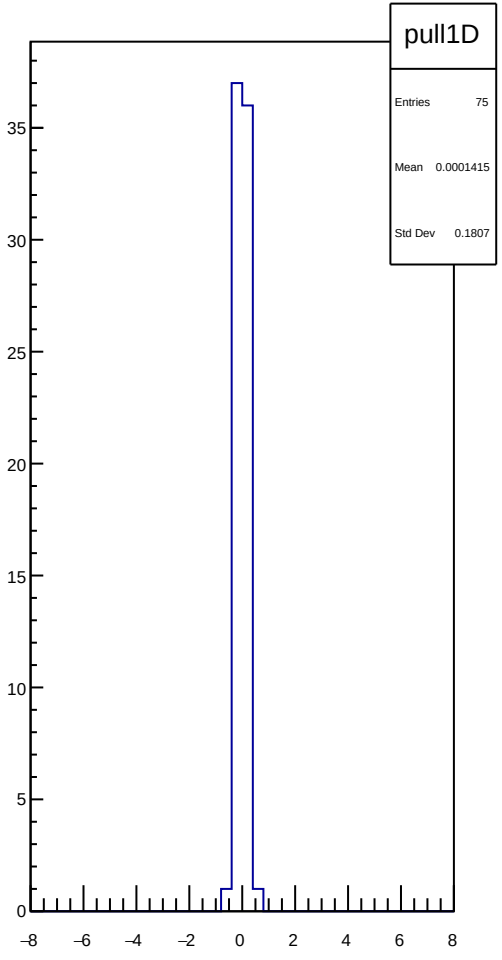

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 44.36 / 74
p0 26.12 ± 0.6198
pull
Entries 75
Mean −3719
Std Dev 3747
pull1D
Entries 75
Mean −0.00164
Std Dev 0.7691

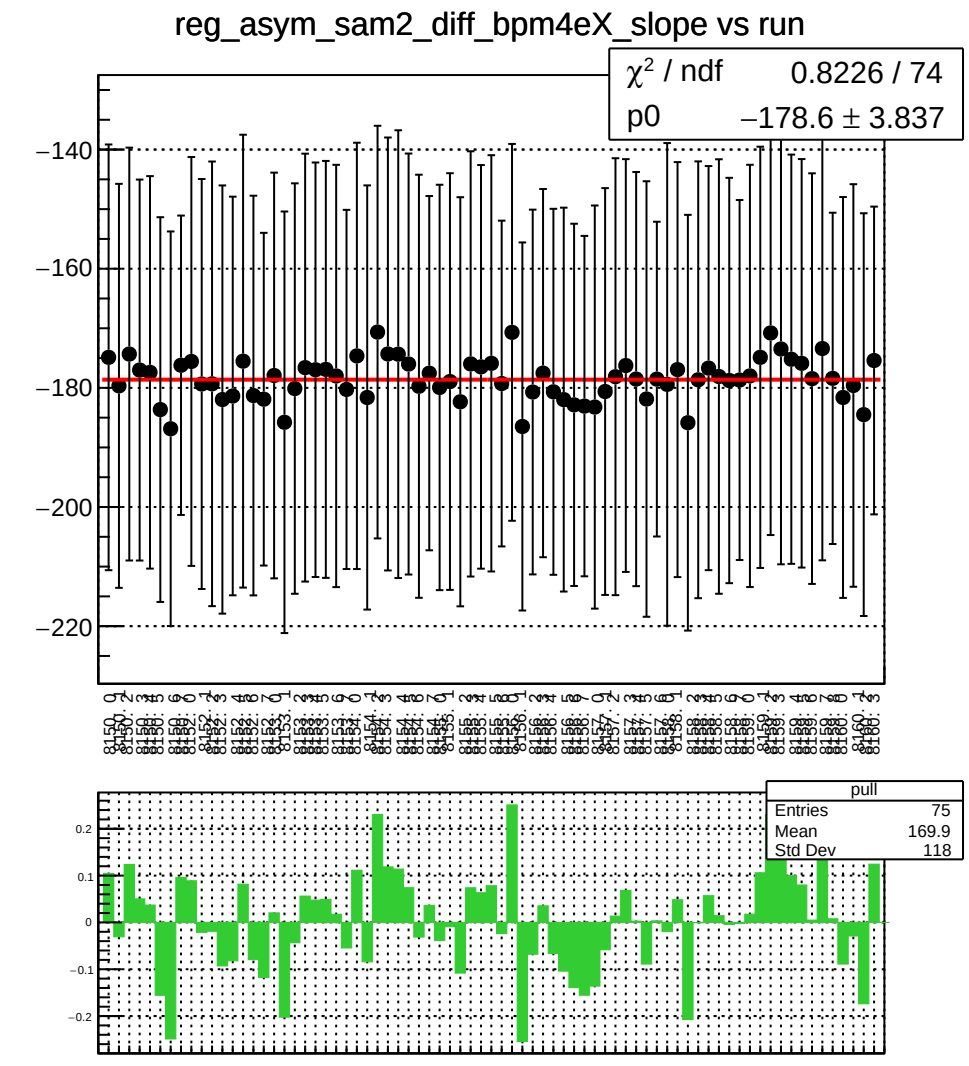

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 7.701 / 74
p0 0.4873 ± 0.02908
pull
Entries 75
Mean 416.6
Std Dev 391
pull1D
Entries 75
Mean 0.00278
Std Dev 0.3204

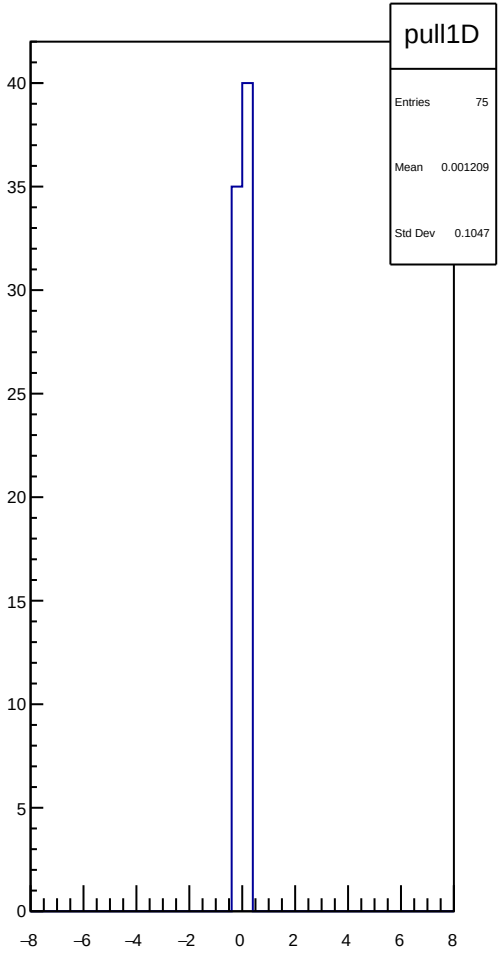

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 0.6955 / 74
p0 −39.46 ± 3.787
pull
Entries 75
Mean 735.2
Std Dev 692

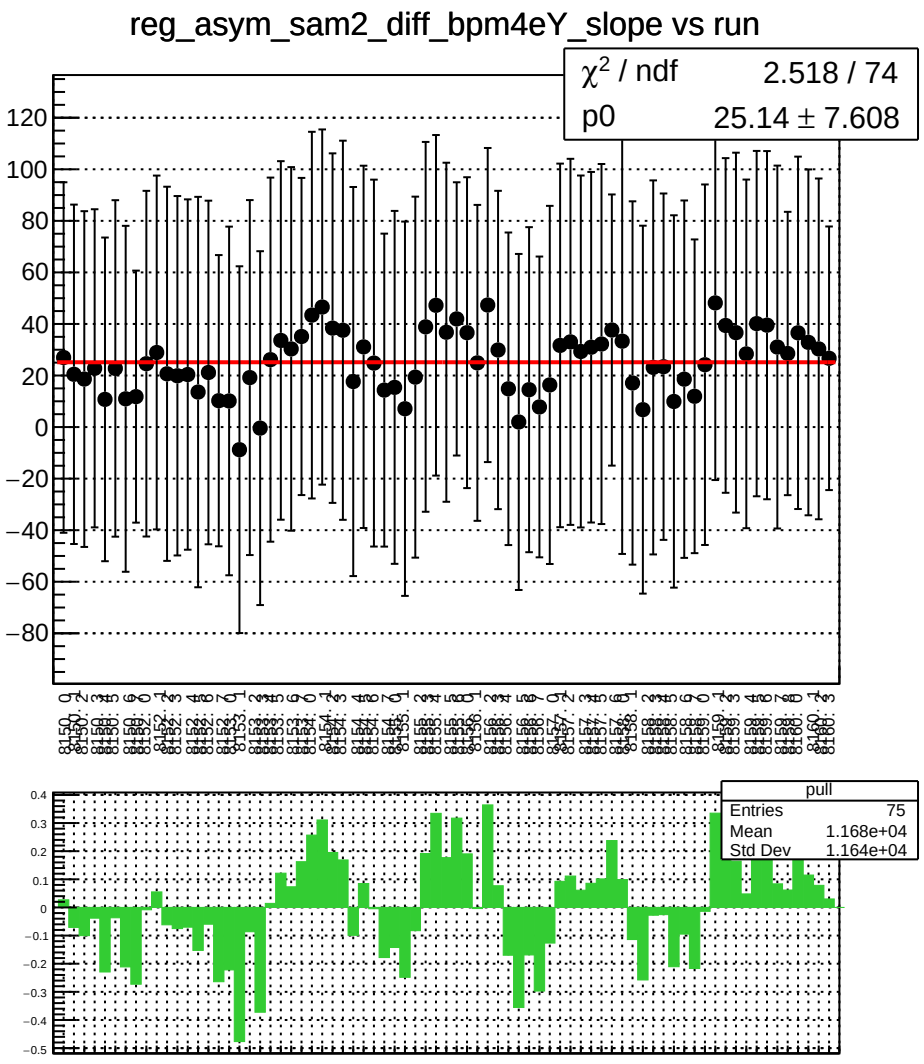

pull1D
Entries 75
Mean −0.0004309
Std Dev 0.0963

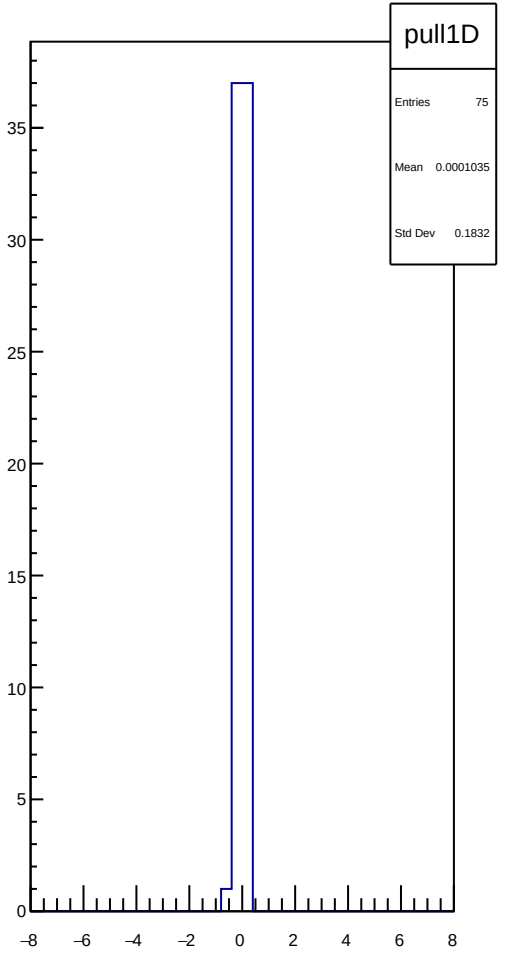

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 2.449 / 74
p0 −210.7 ± 7.1
−100
−150
−200
−250
−300
pull
Entries 75
Mean −8386
Std Dev 8421
0.4
0.2
0
−0.2
−0.4

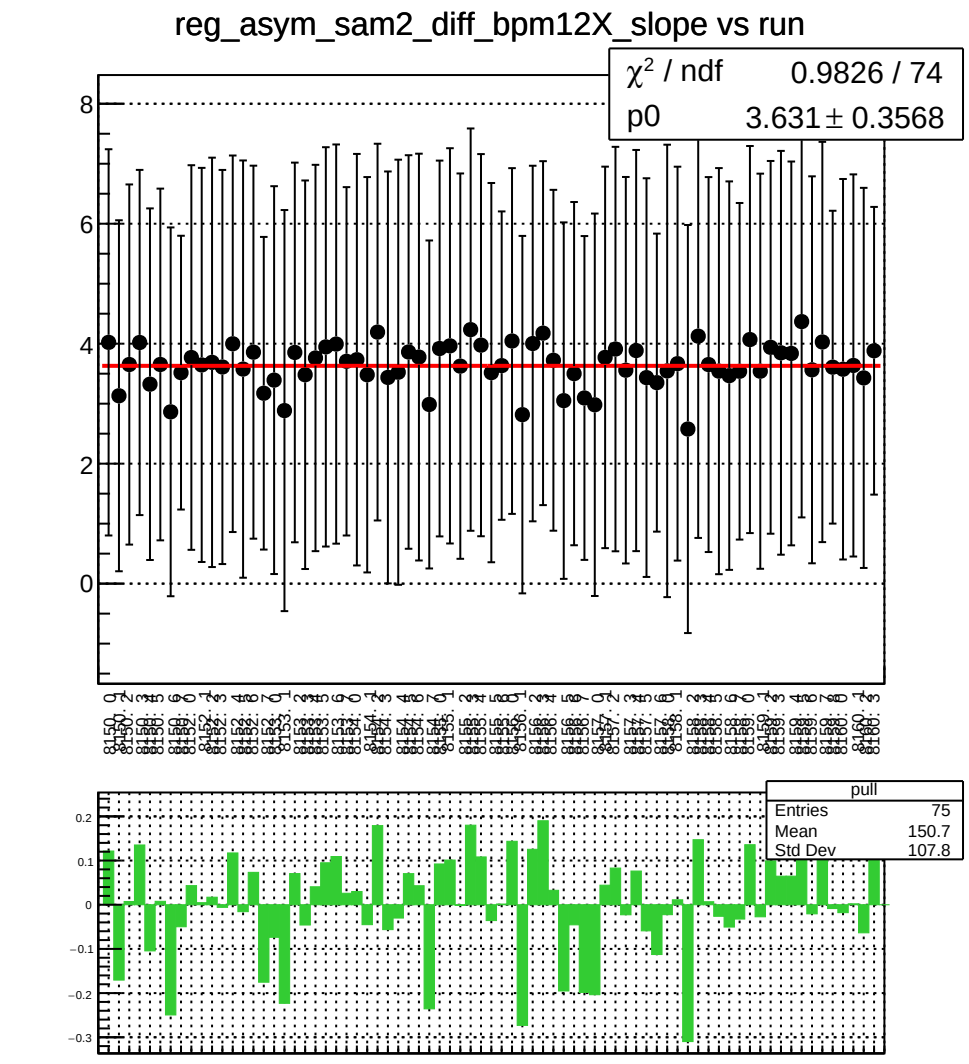

pull1D
Entries 75
Mean 0.0001415
Std Dev 0.1807
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

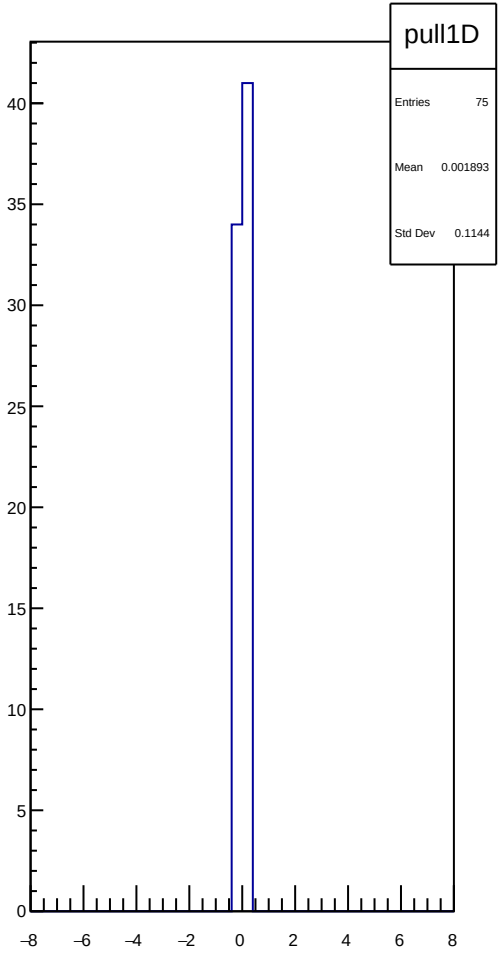

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0.8226 / 74
p0 −178.6 ± 3.837
pull
Entries 75
Mean 169.9
Std Dev 118

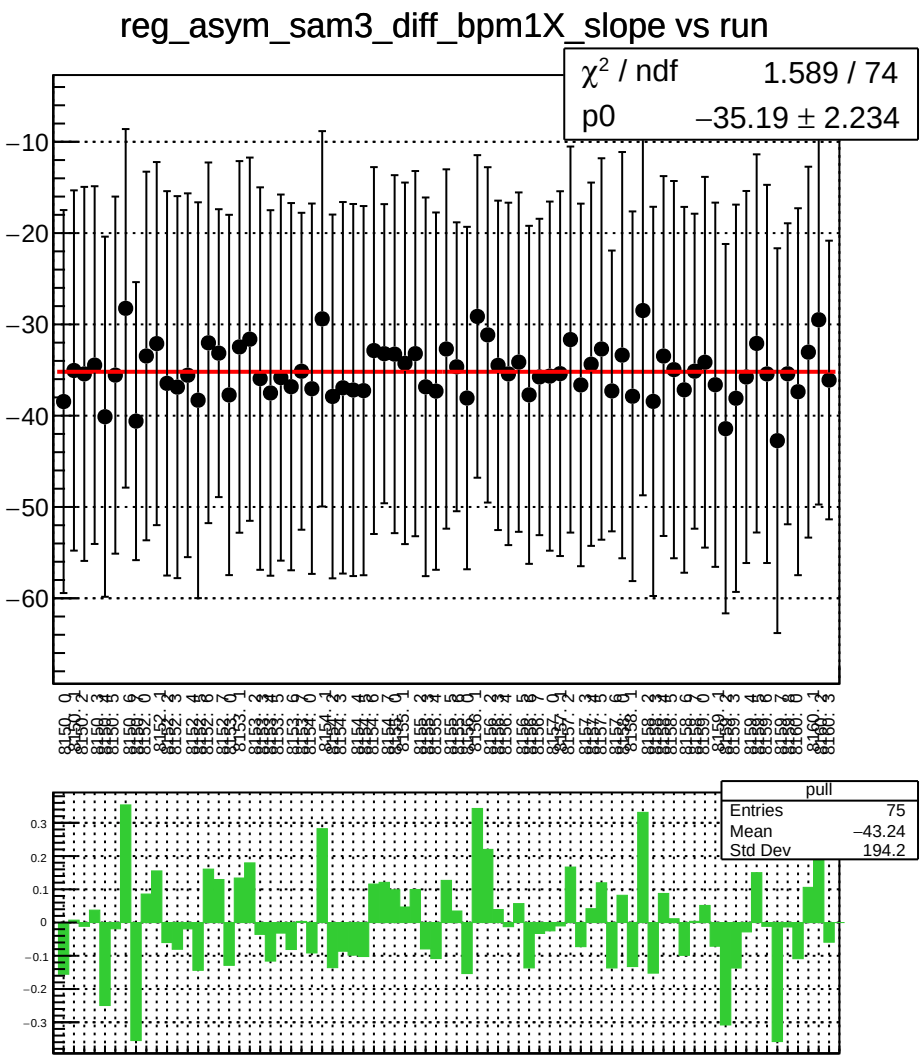

pull1D
Entries 75
Mean 0.001209
Std Dev 0.1047

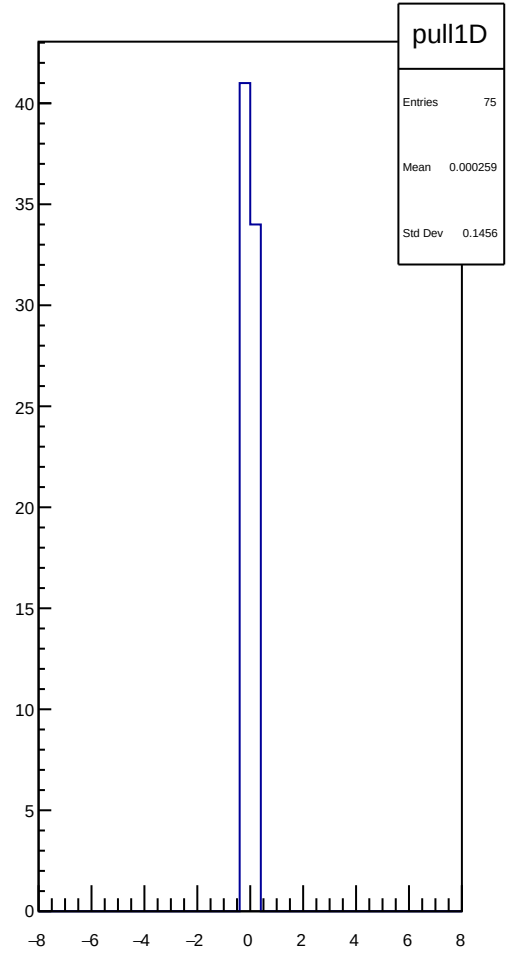

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 2.518 / 74
p0 25.14 ± 7.608
pull
Entries 75
Mean 1.168e+04
Std Dev 1.164e+04

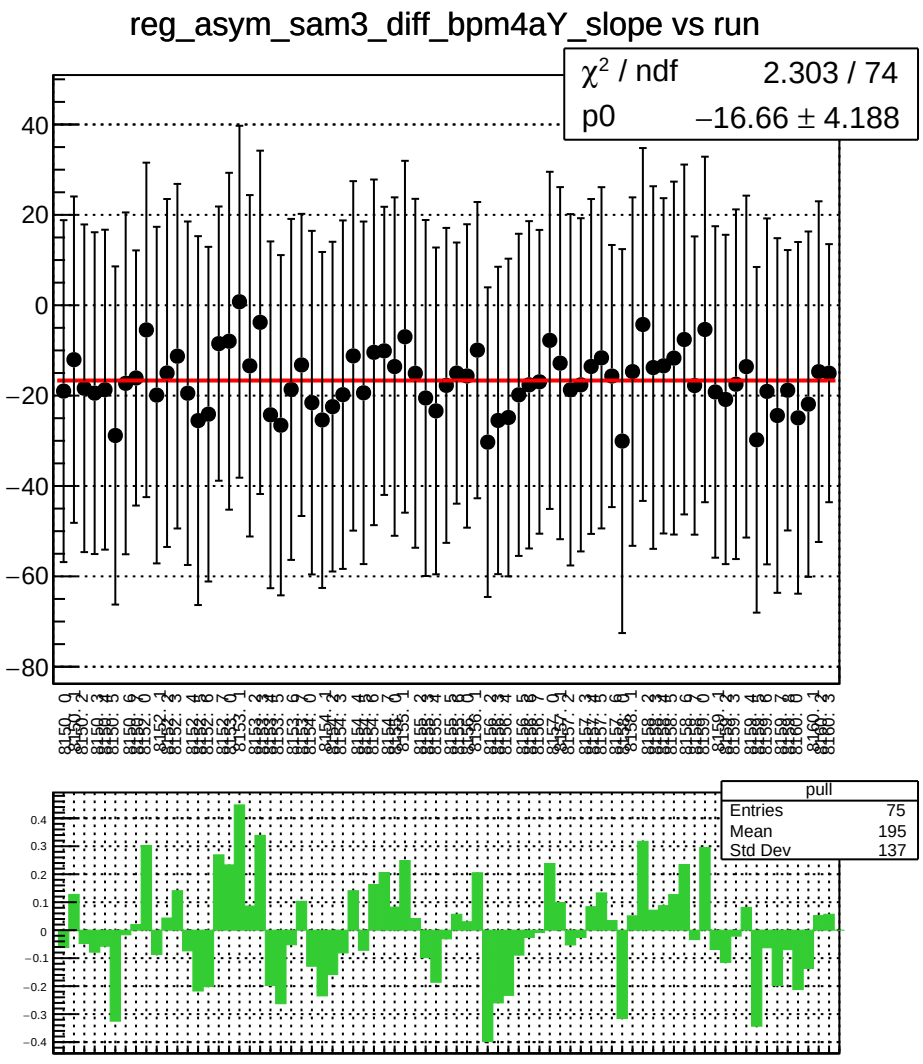

pull1D
Entries 75
Mean 0.0001035
Std Dev 0.1832

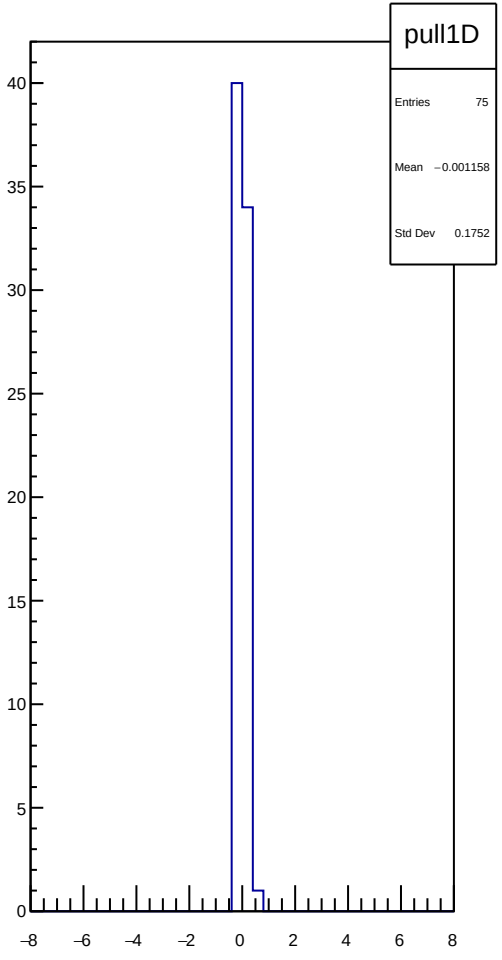

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 0.9826 / 74
p0 3.631 ± 0.3568
pull
Entries 75
Mean 150.7
Std Dev 107.8

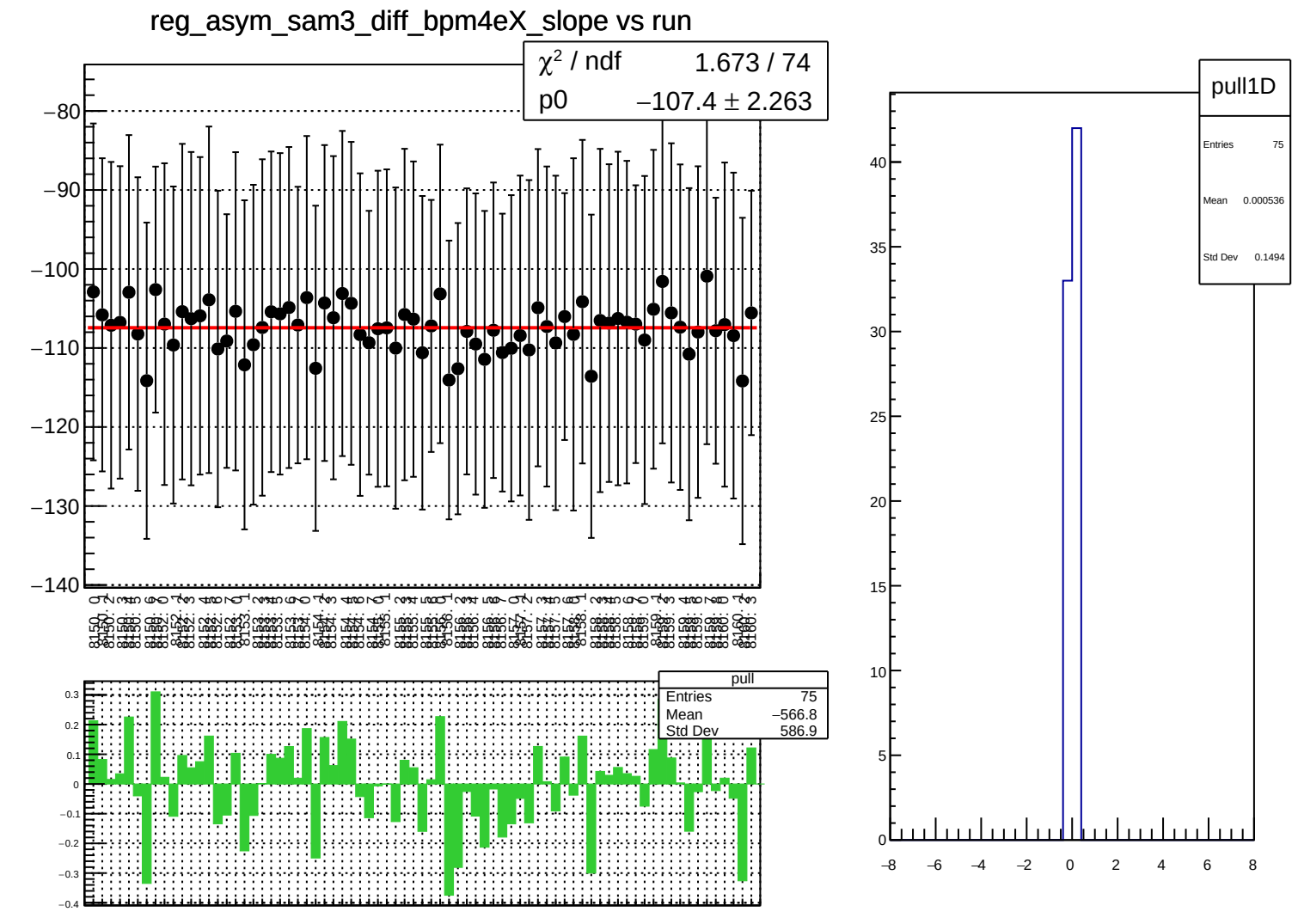

pull1D
Entries 75
Mean 0.001893
Std Dev 0.1144

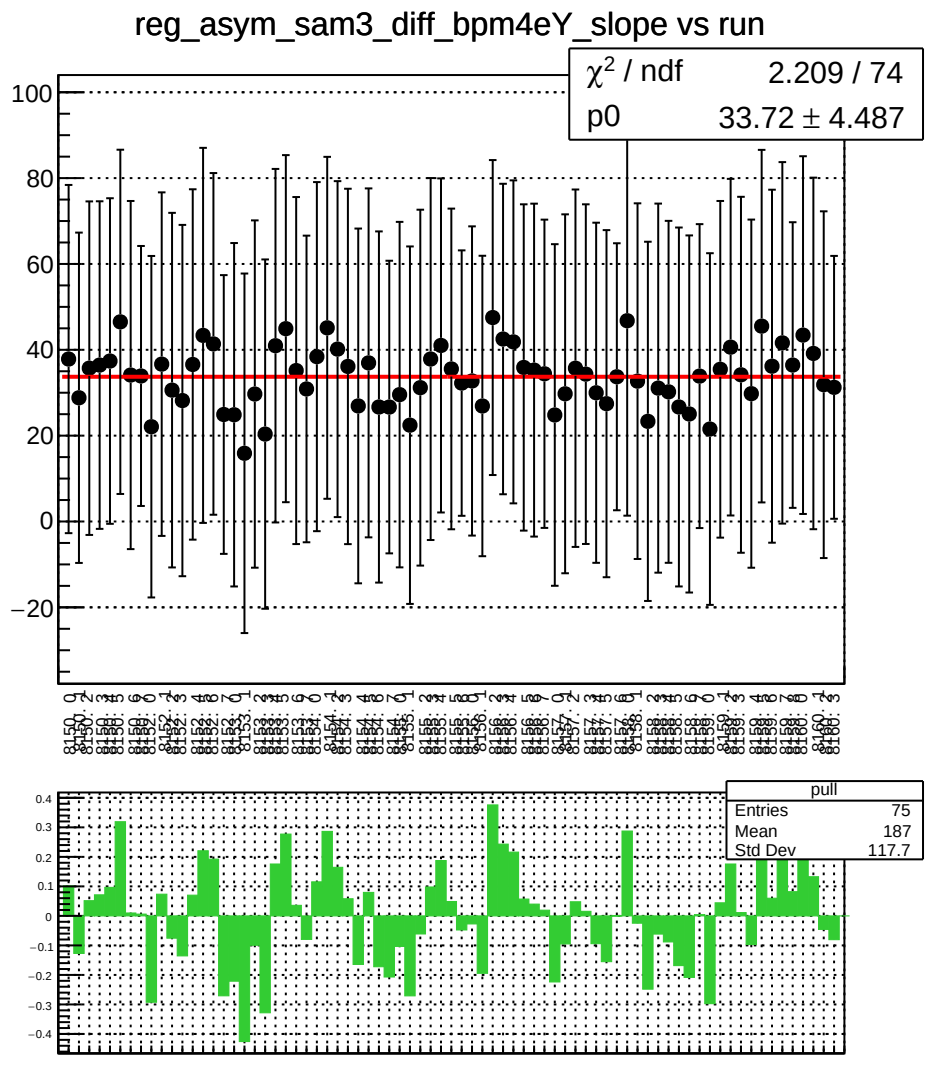

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 1.589 / 74
p0 −35.19 ± 2.234
pull
Entries 75
Mean −43.24
Std Dev 194.2

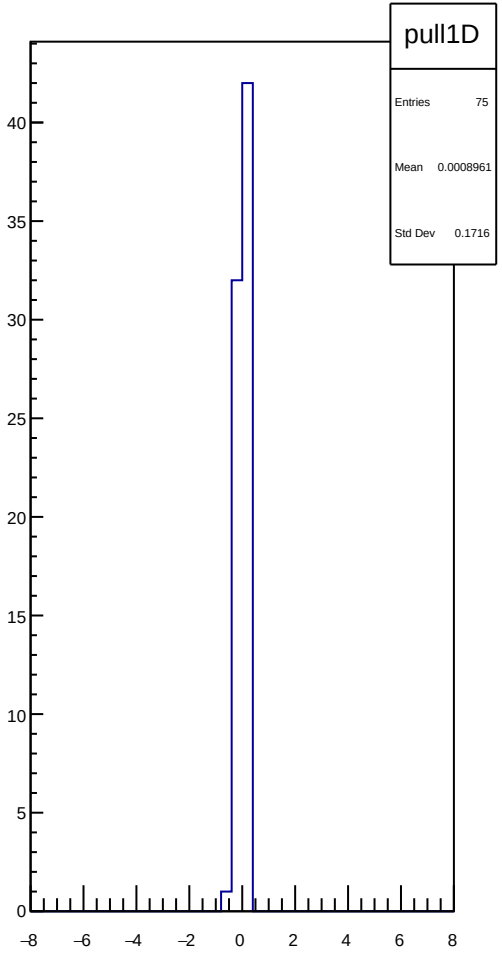

pull1D
Entries 75
Mean 0.000259
Std Dev 0.1456

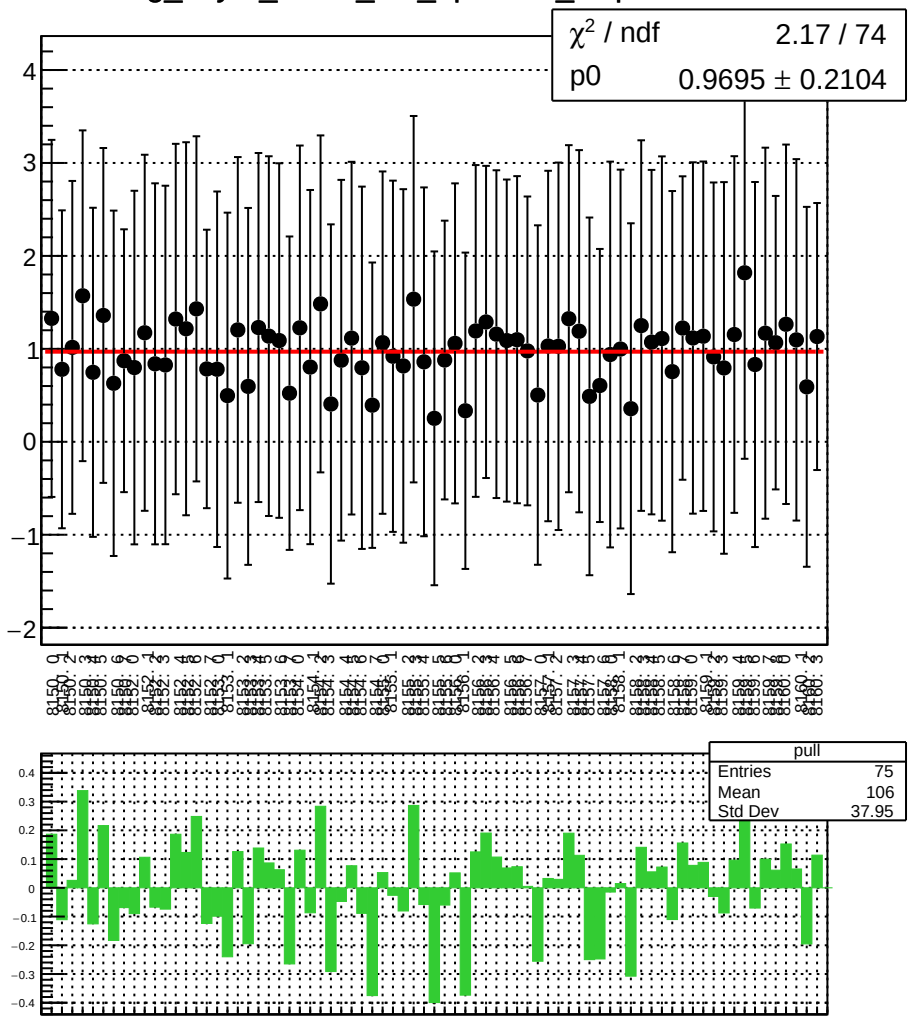

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 2.303 / 74
p0 −16.66 ± 4.188
pull
Entries 75
Mean 195
Std Dev 137

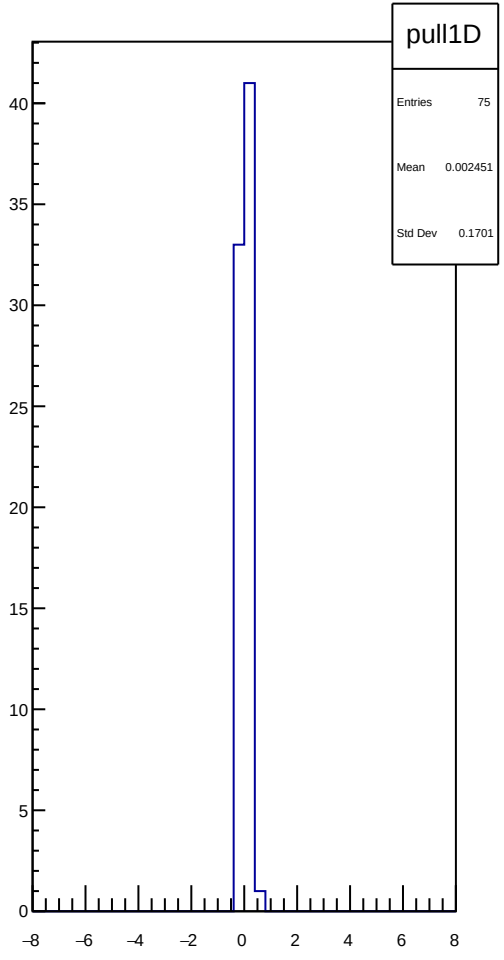

pull1D
Entries 75
Mean −0.001158
Std Dev 0.1752

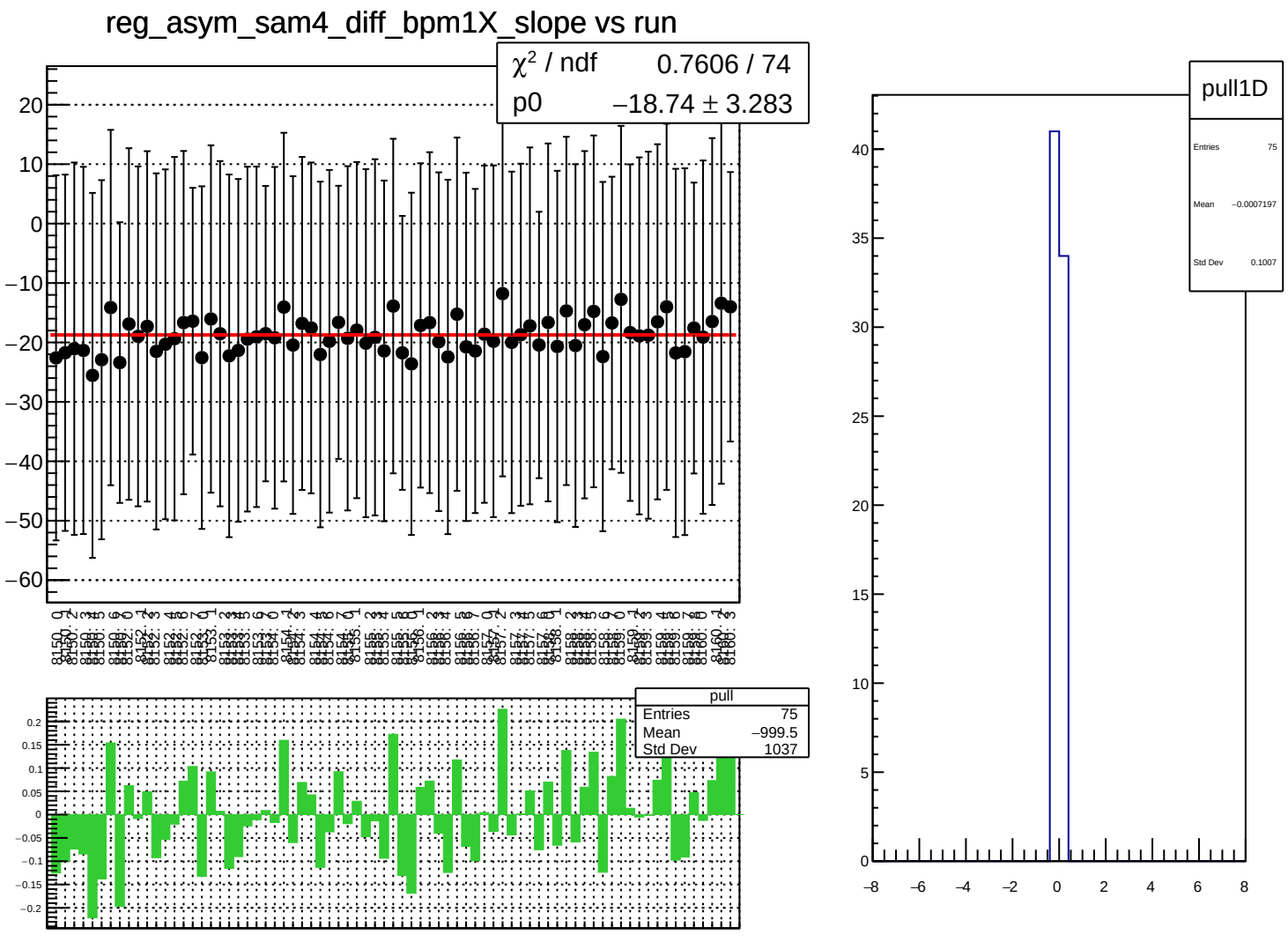

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 1.673 / 74
p0 −107.4 ± 2.263
pull
Entries 75
Mean −566.8
Std Dev 586.9
pull1D
Entries 75
Mean 0.000536
Std Dev 0.1494

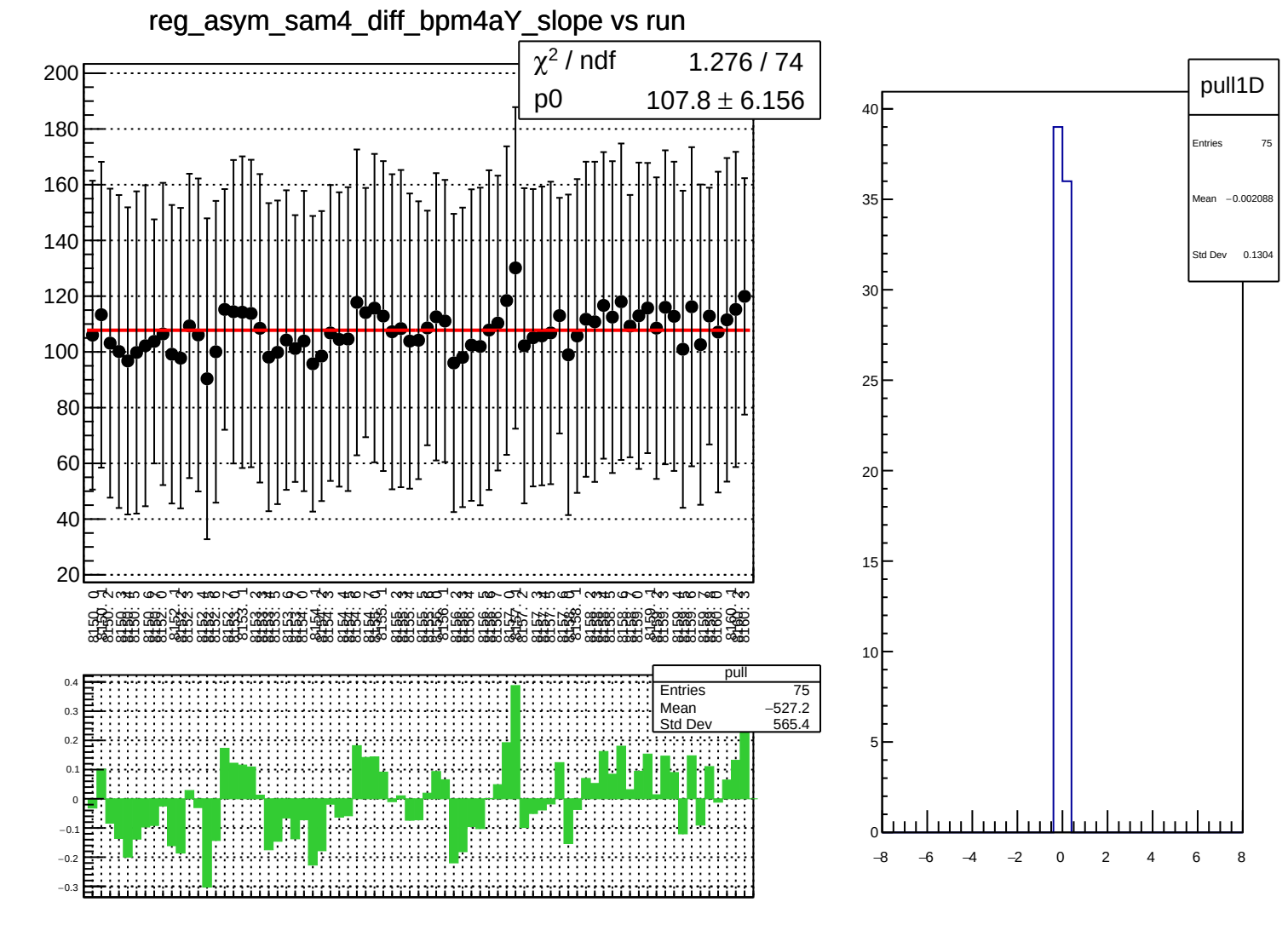

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 2.209 / 74
p0 33.72 ± 4.487
pull
Entries 75
Mean 187
Std Dev 117.7

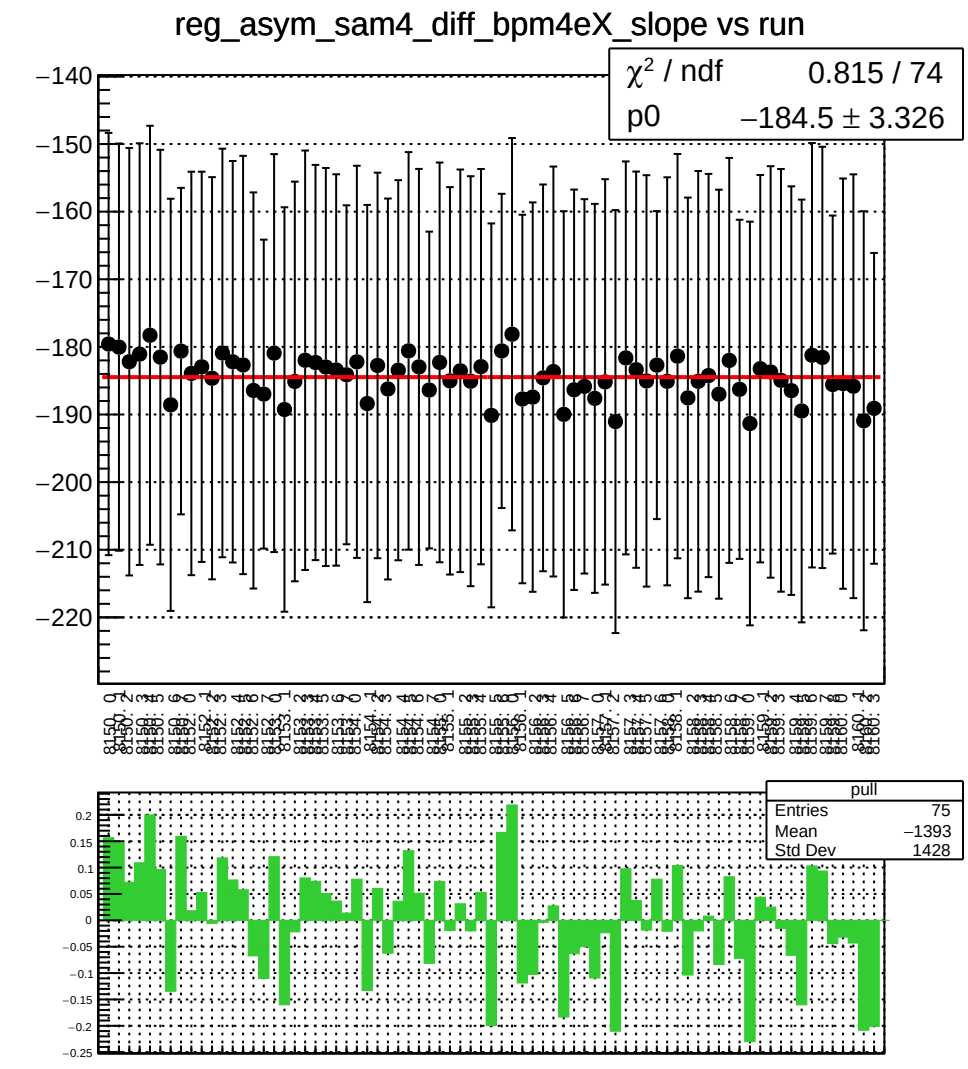

pull1D
Entries 75
Mean 0.0008961
Std Dev 0.1716

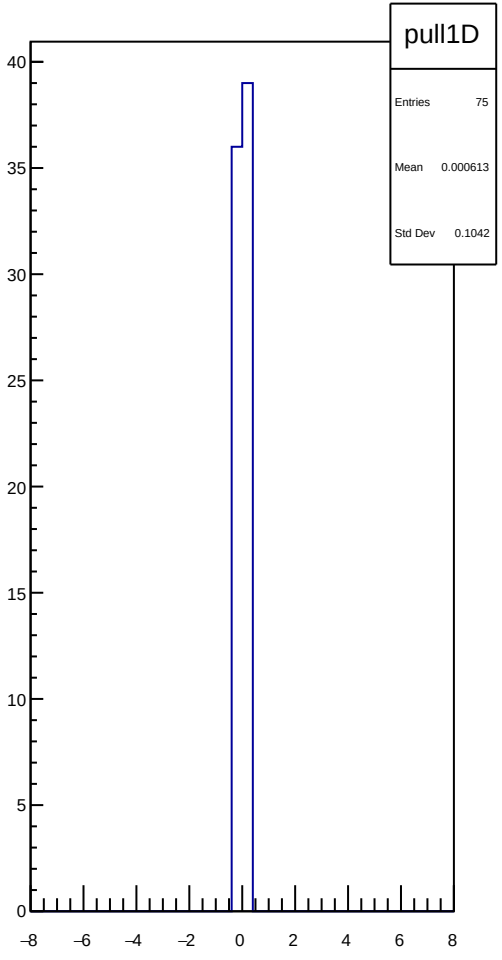

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 2.17 / 74
p0 0.9695 ± 0.2104
pull
Entries 75
Mean 106
Std Dev 37.95

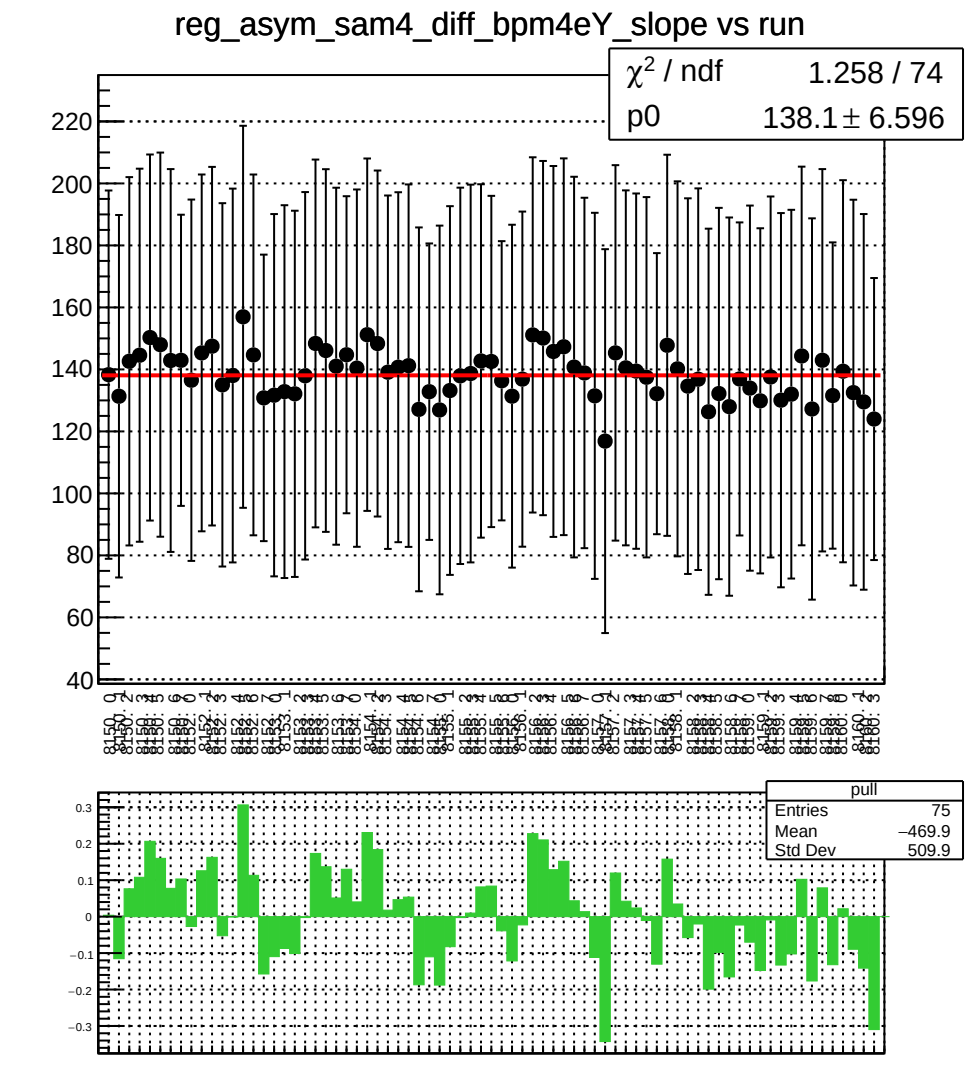

pull1D
Entries 75
Mean 0.002451
Std Dev 0.1701

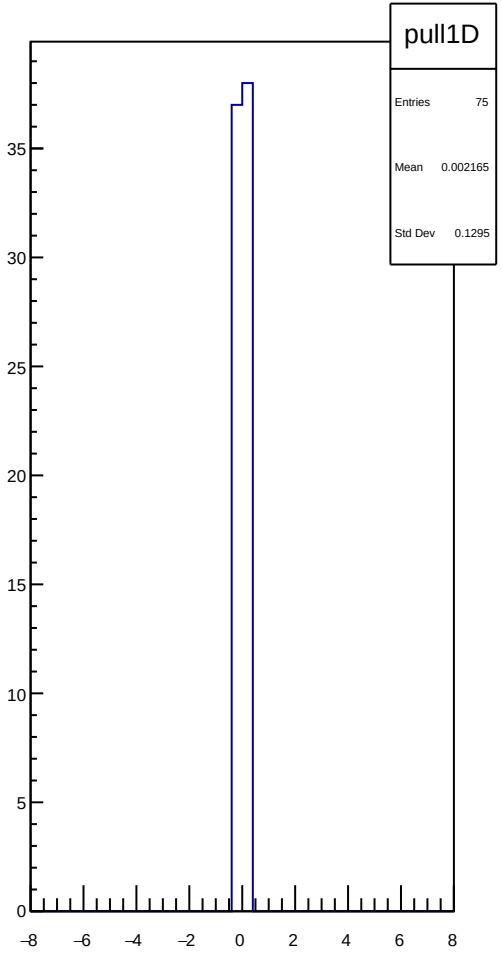

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 0.7606 / 74
p0 −18.74 ± 3.283
pull
Entries 75
Mean −999.5
Std Dev 1037
pull1D
Entries 75
Mean −0.0007197
Std Dev 0.1007

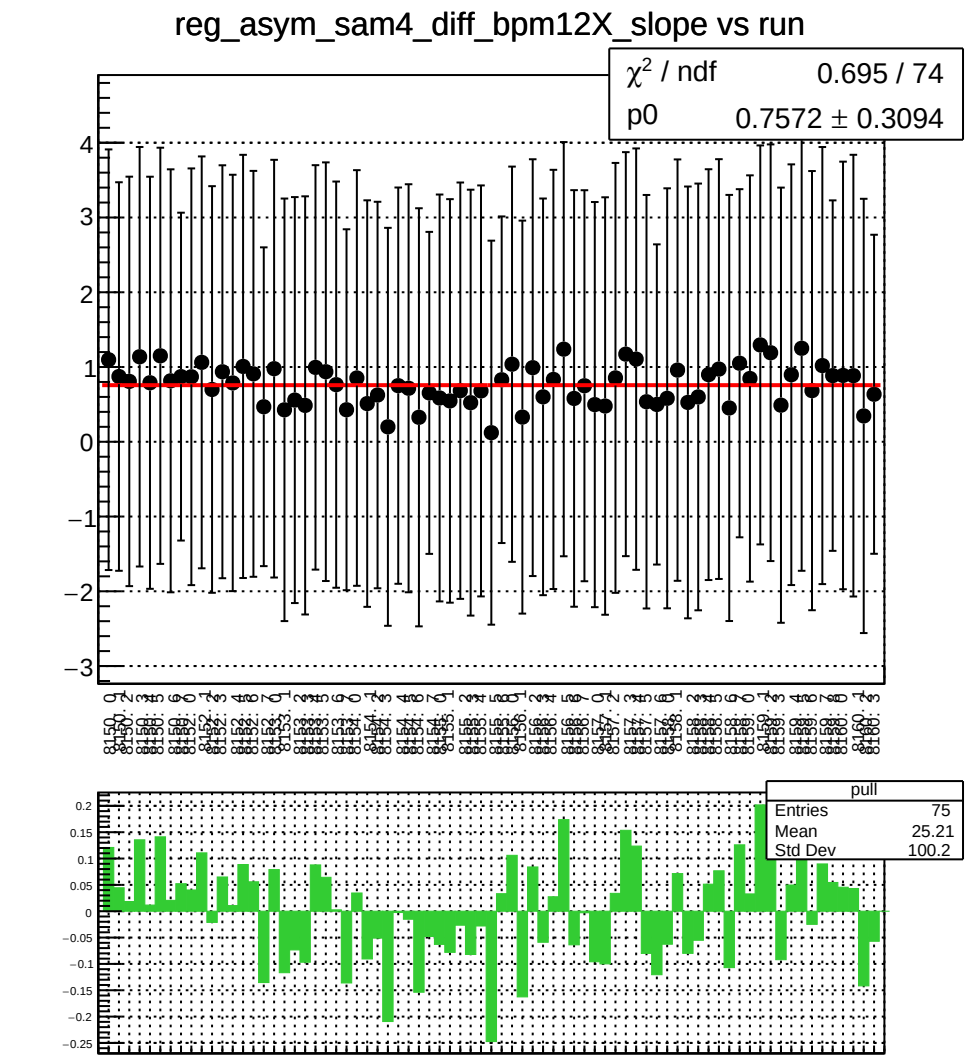

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.276 / 74
p0 107.8 ± 6.156
pull
Entries 75
Mean −527.2
Std Dev 565.4
pull1D
Entries 75
Mean −0.002088
Std Dev 0.1304

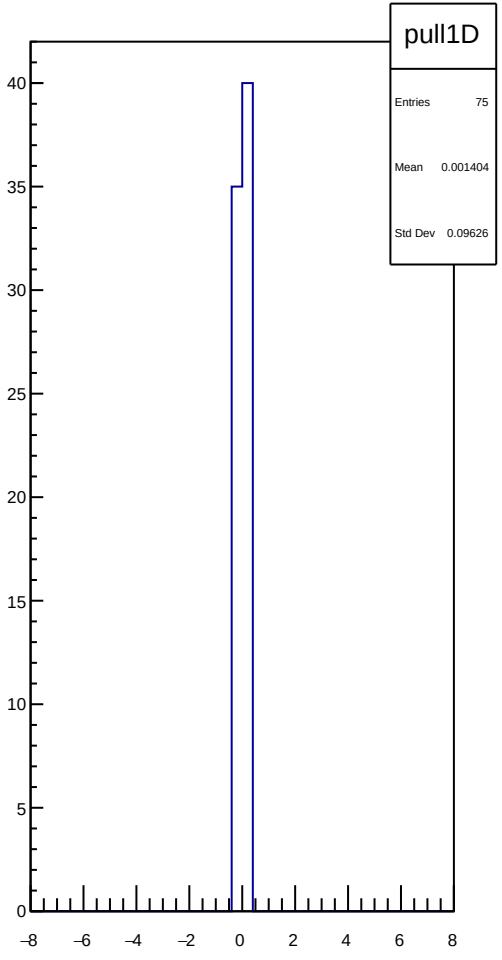

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 0.815 / 74
p0 −184.5 ± 3.326
pull
Entries 75
Mean −1393
Std Dev 1428

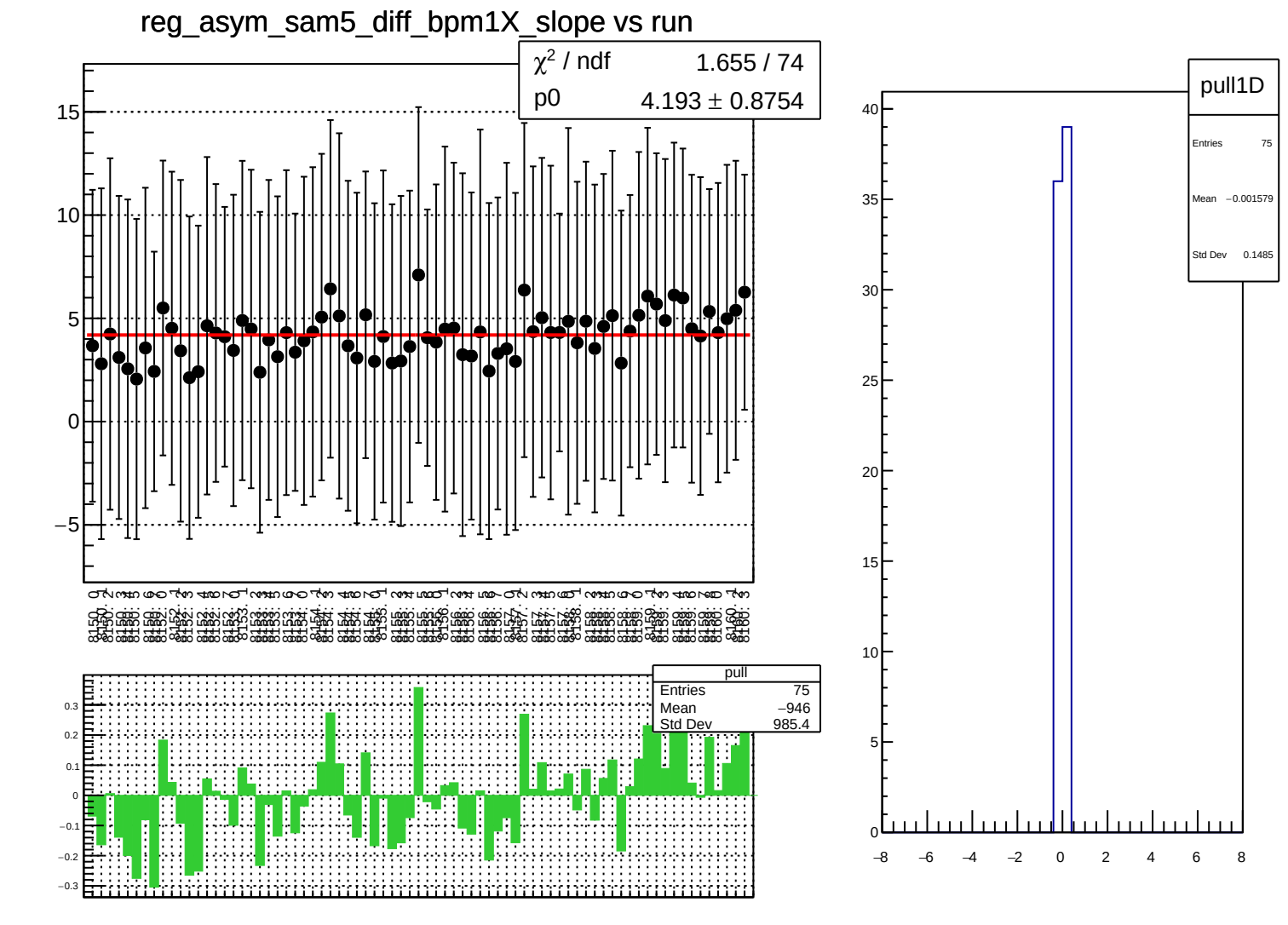

pull1D
Entries 75
Mean 0.000613
Std Dev 0.1042

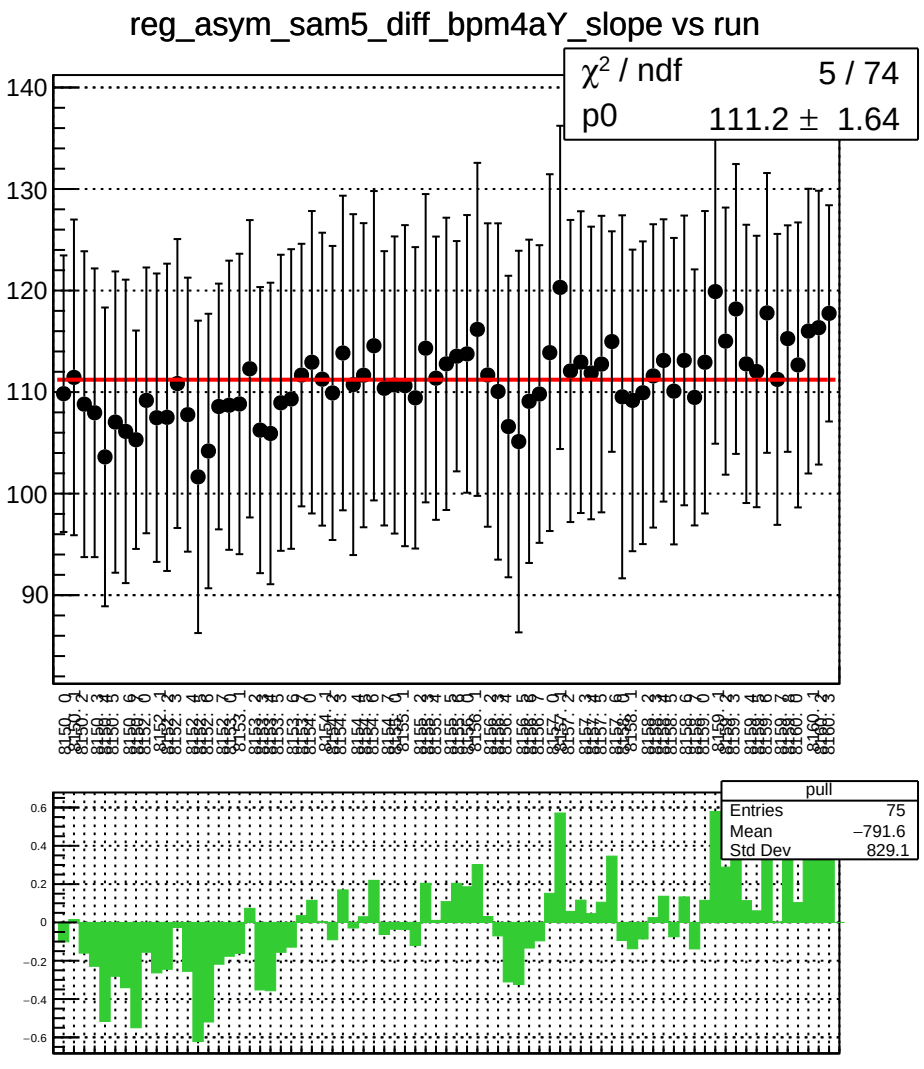

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 1.258 / 74
p0 138.1 ± 6.596
pull
Entries 75
Mean −469.9
Std Dev 509.9

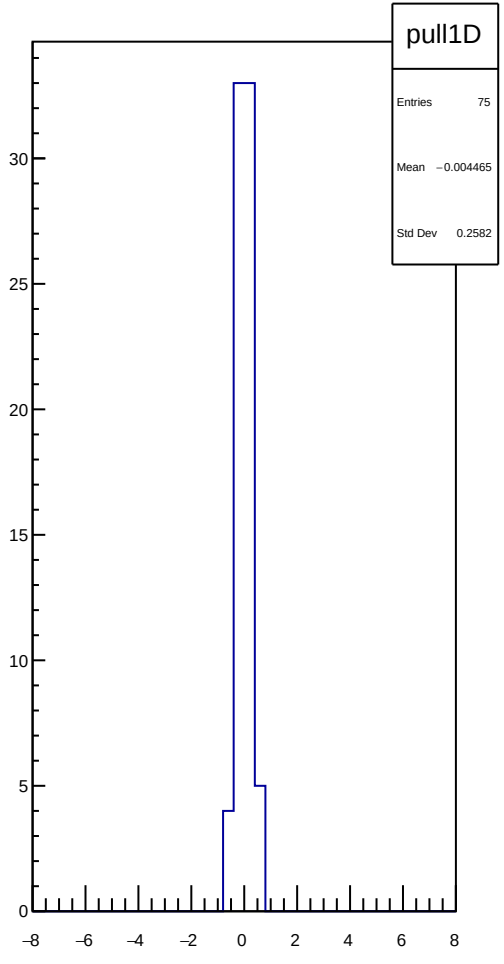

pull1D
Entries 75
Mean 0.002165
Std Dev 0.1295

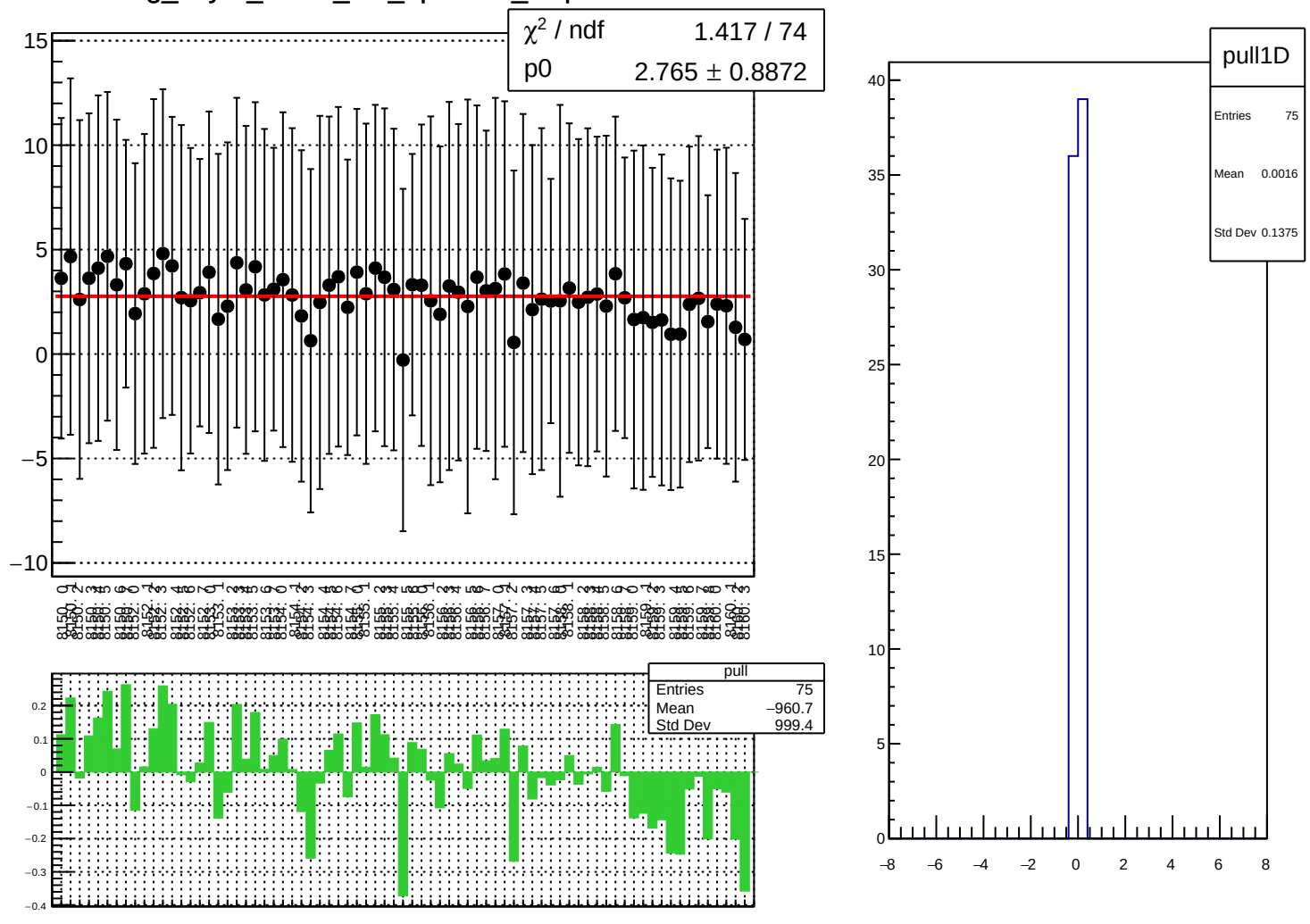

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 0.695 / 74
p0 0.7572 ± 0.3094
pull
Entries 75
Mean 25.21
Std Dev 100.2

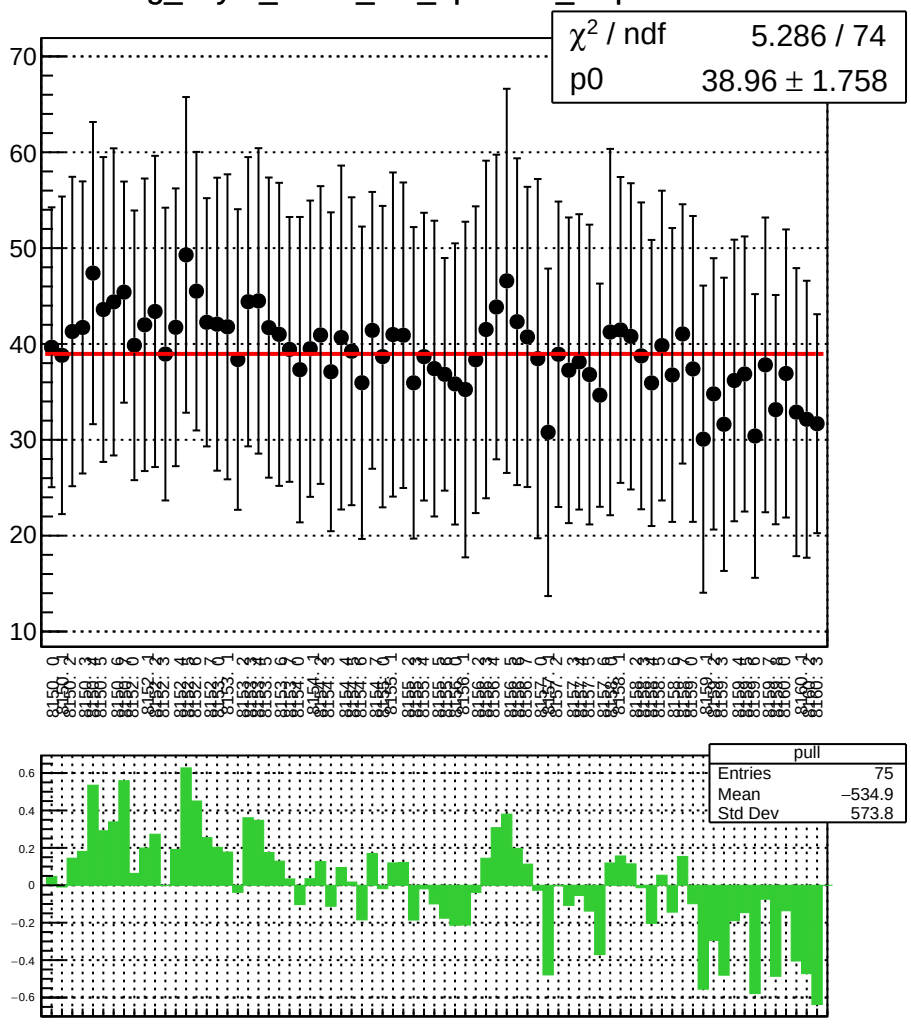

pull1D
Entries 75
Mean 0.001404
Std Dev 0.09626

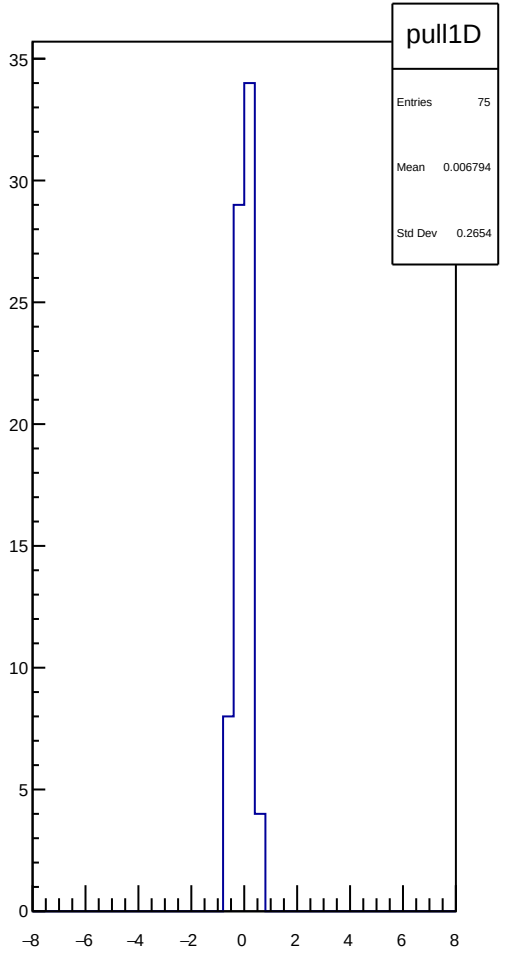

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 1.655 / 74
p0 4.193 ± 0.8754
pull
Entries 75
Mean −946
Std Dev 985.4
pull1D
Entries 75
Mean −0.001579
Std Dev 0.1485

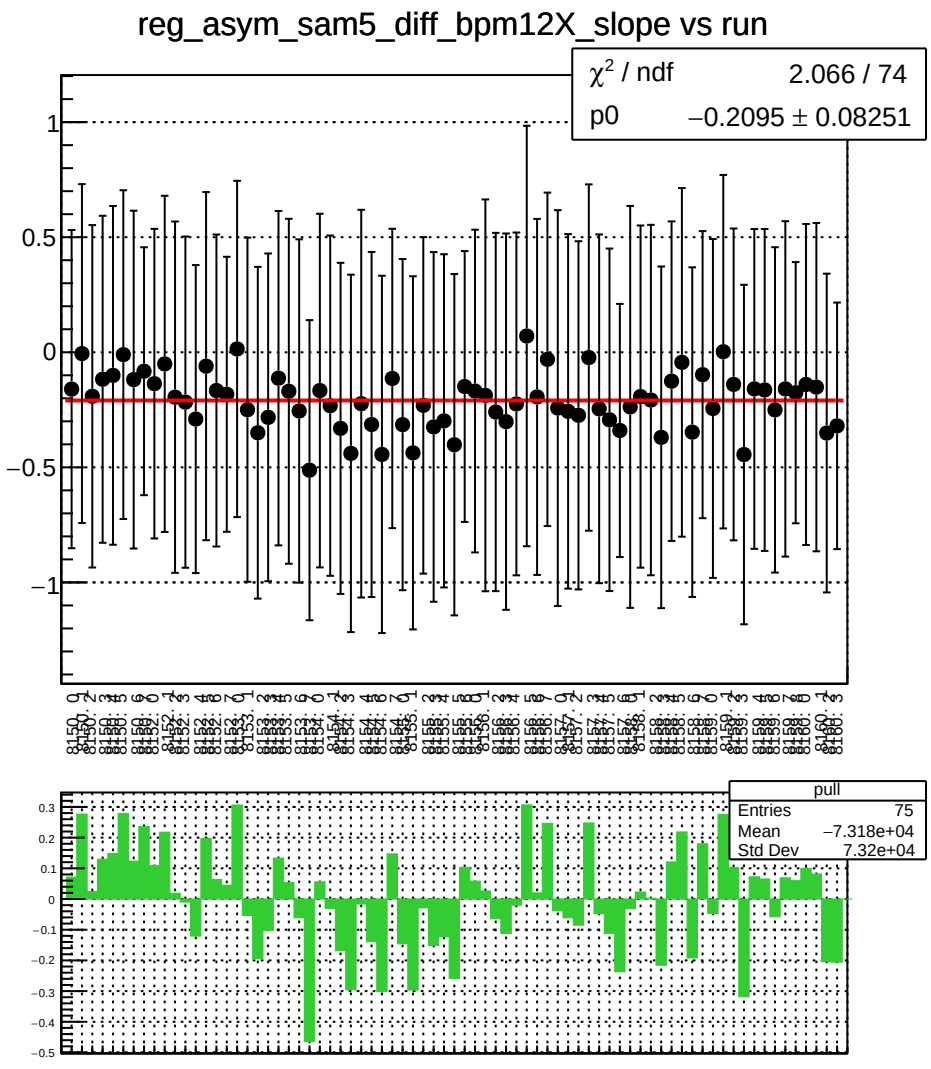

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 5 / 74
p0 111.2 ± 1.64
pull
Entries 75
Mean −791.6
Std Dev 829.1

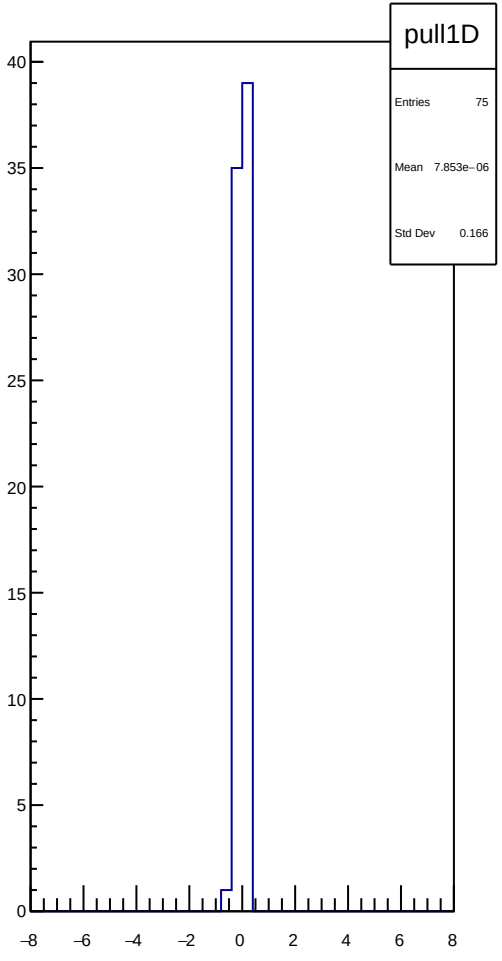

pull1D
Entries 75
Mean −0.004465
Std Dev 0.2582

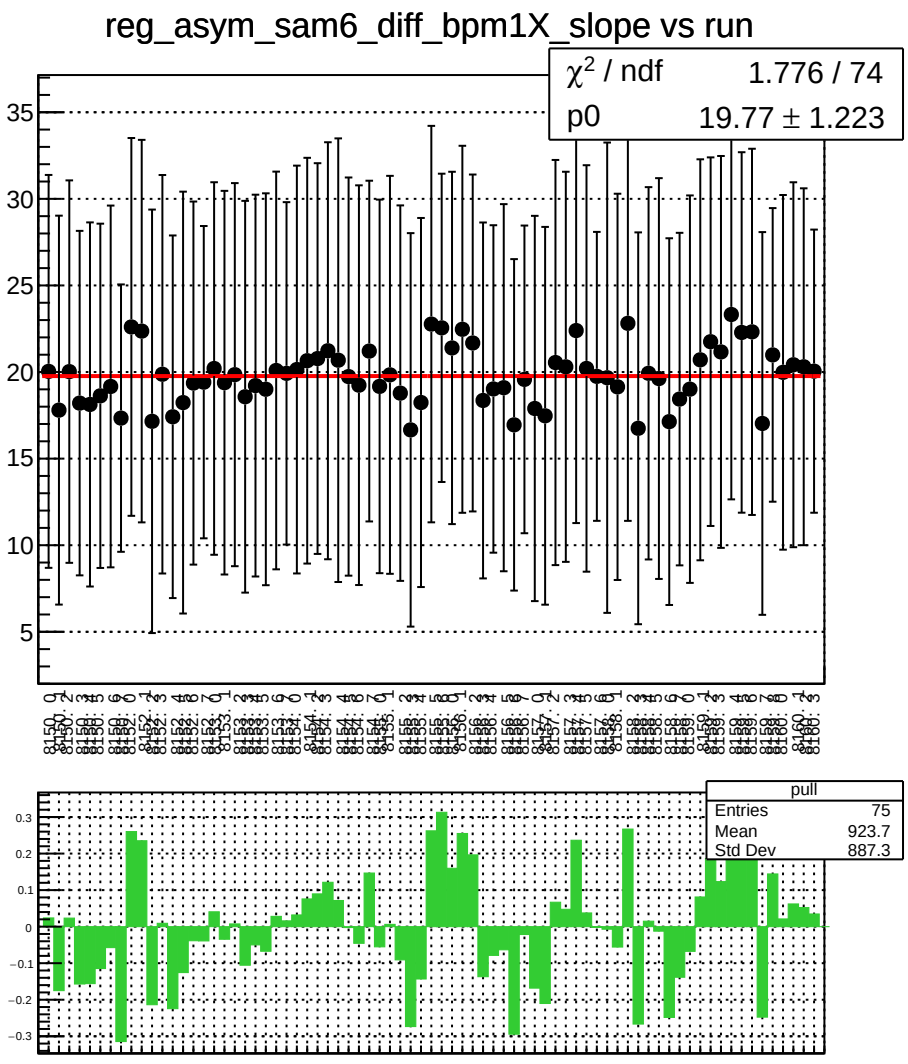

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 1.417 / 74
p0 2.765 ± 0.8872
pull
Entries 75
Mean −960.7
Std Dev 999.4
pull1D
Entries 75
Mean 0.0016
Std Dev 0.1375

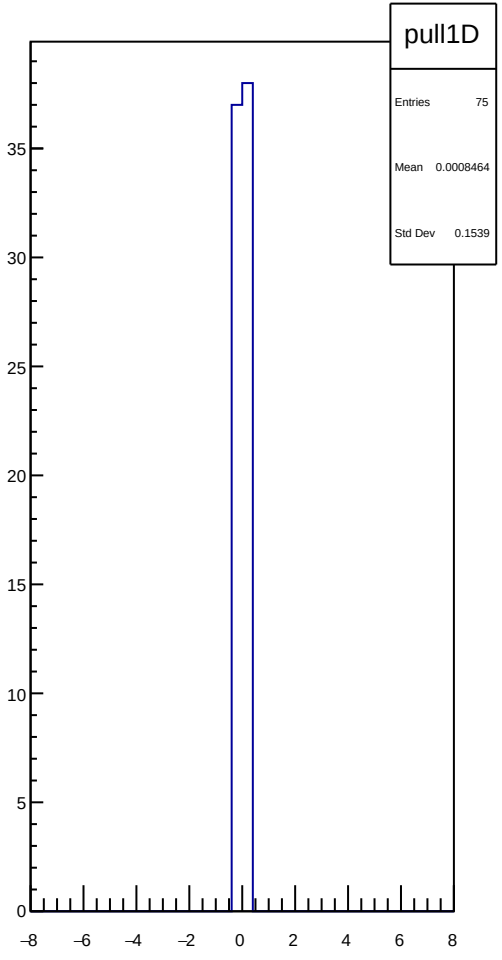

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 5.286 / 74
p0 38.96 ± 1.758
pull
Entries 75
Mean −534.9
Std Dev 573.8

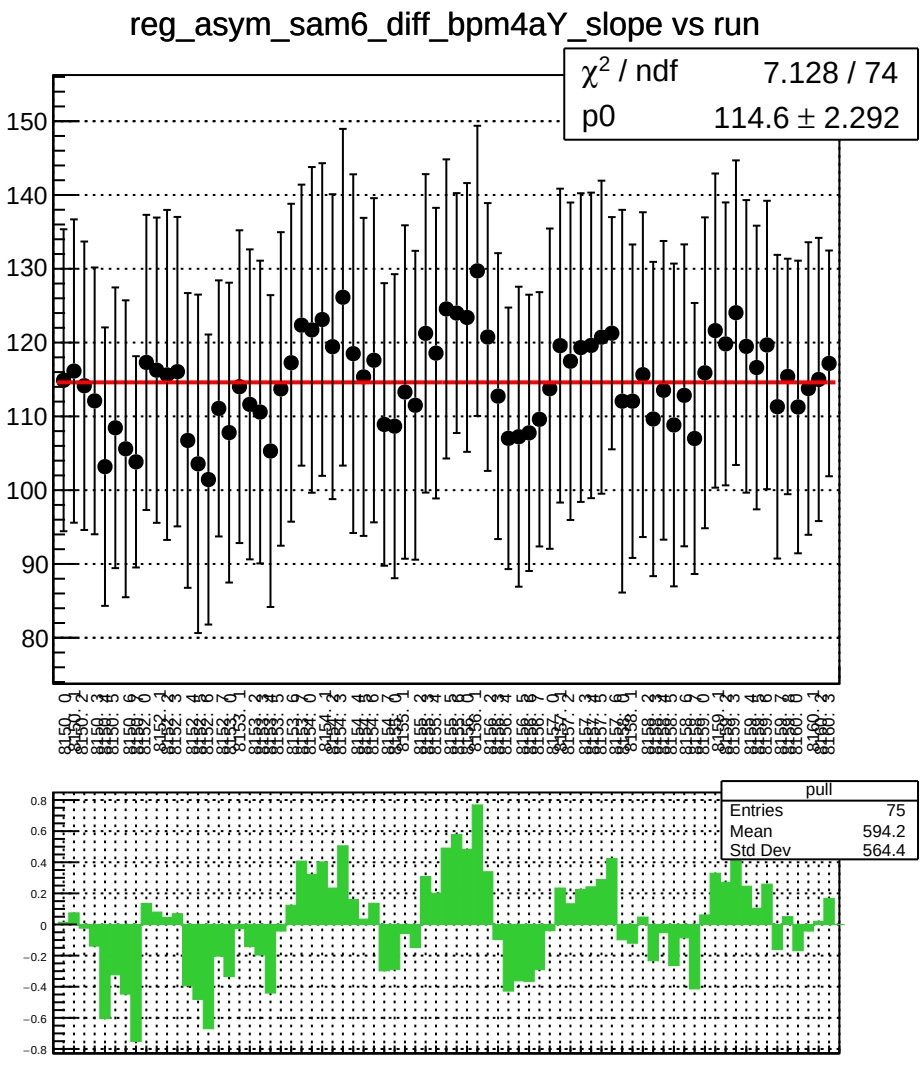

pull1D
Entries 75
Mean 0.006794
Std Dev 0.2654

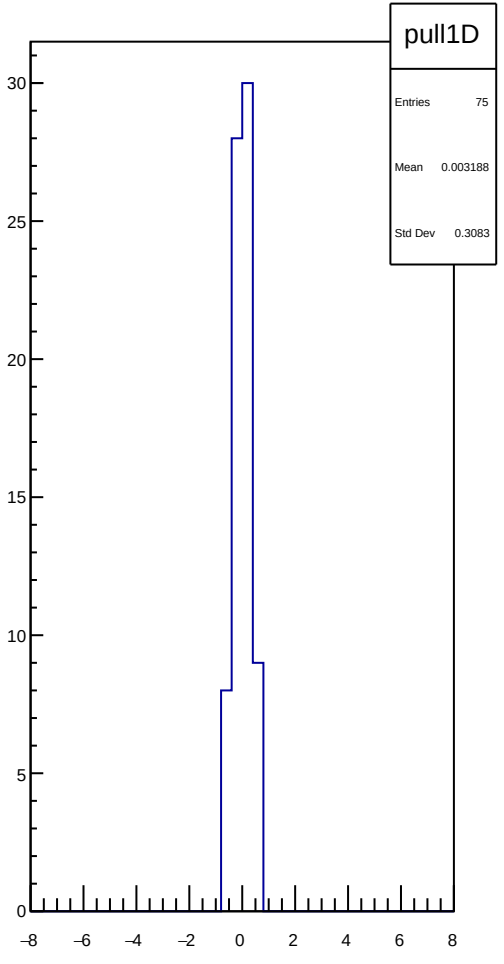

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 2.066 / 74
p0 −0.2095 ± 0.08251
pull
Entries 75
Mean −7.318e+04
Std Dev 7.32e+04

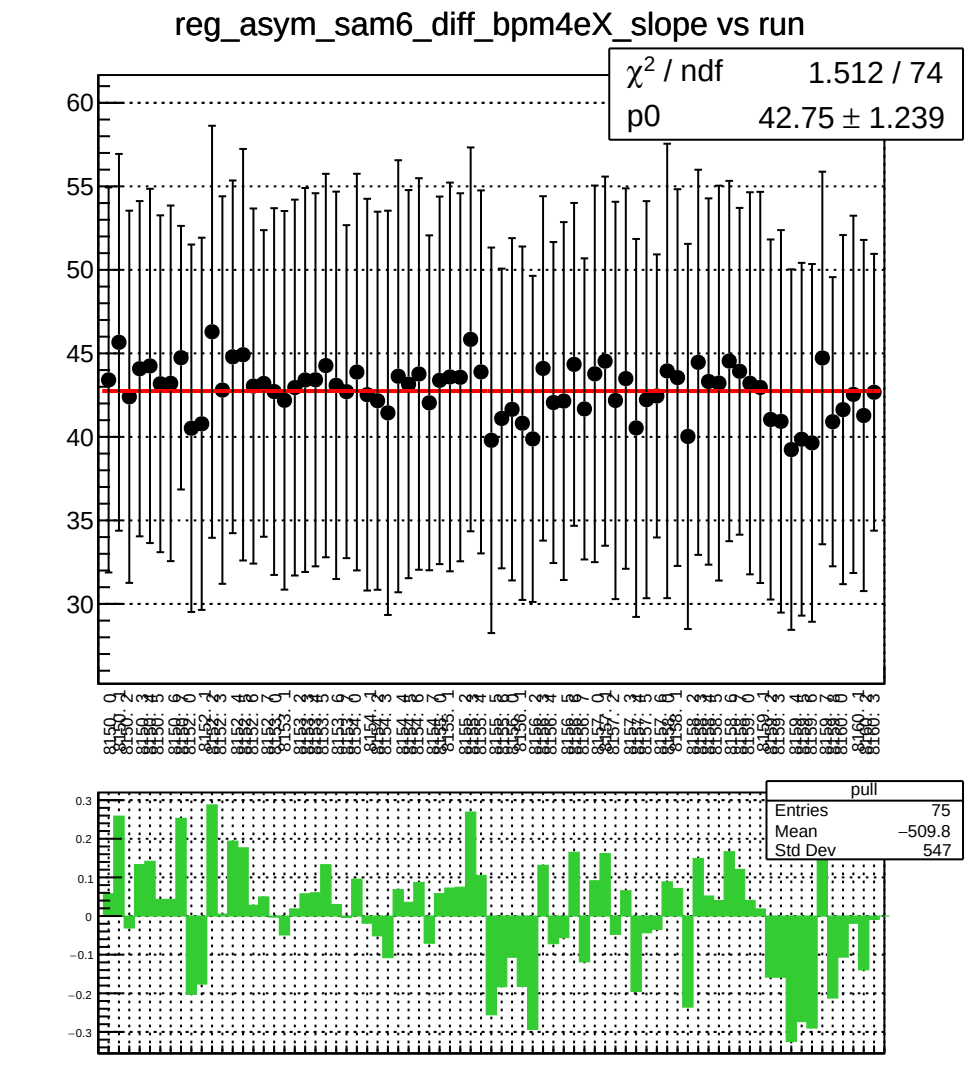

pull1D
Entries 75
Mean 7.853e−06
Std Dev 0.166

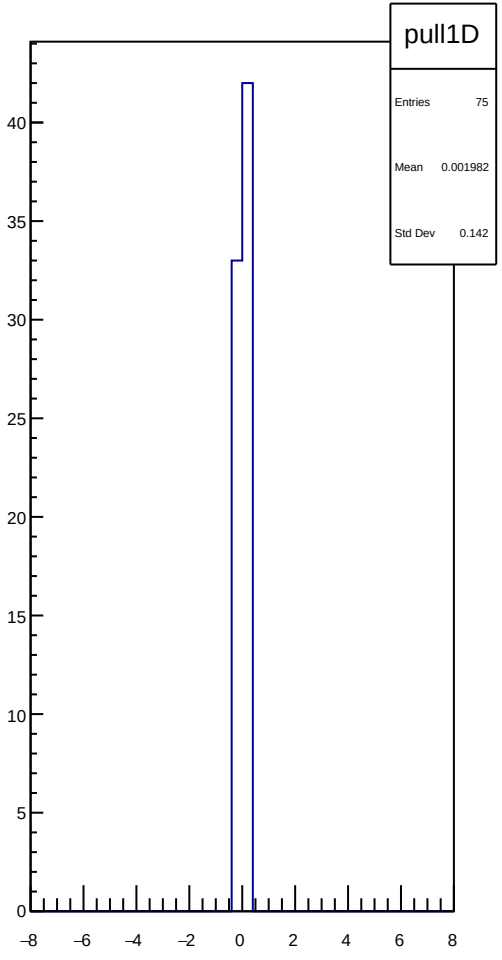

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 1.776 / 74
p0 19.77 ± 1.223
pull
Entries 75
Mean 923.7
Std Dev 887.3

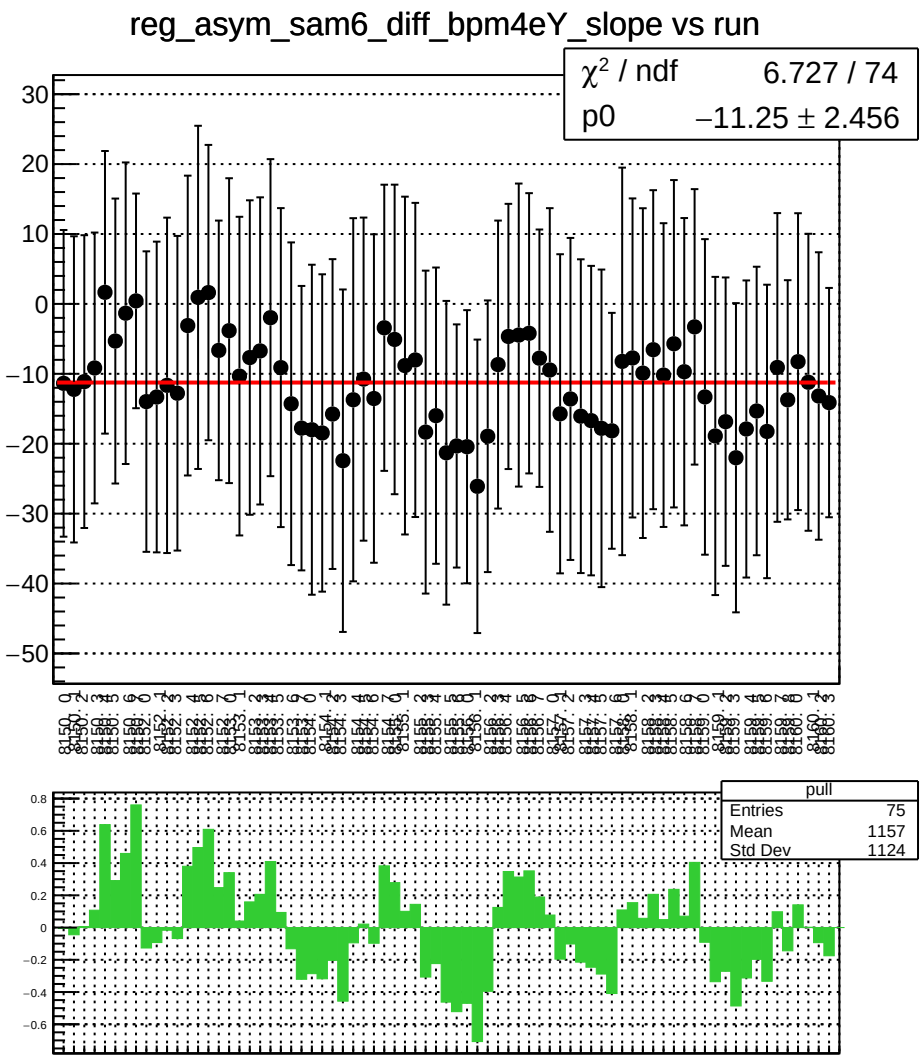

pull1D
Entries 75
Mean 0.0008464
Std Dev 0.1539

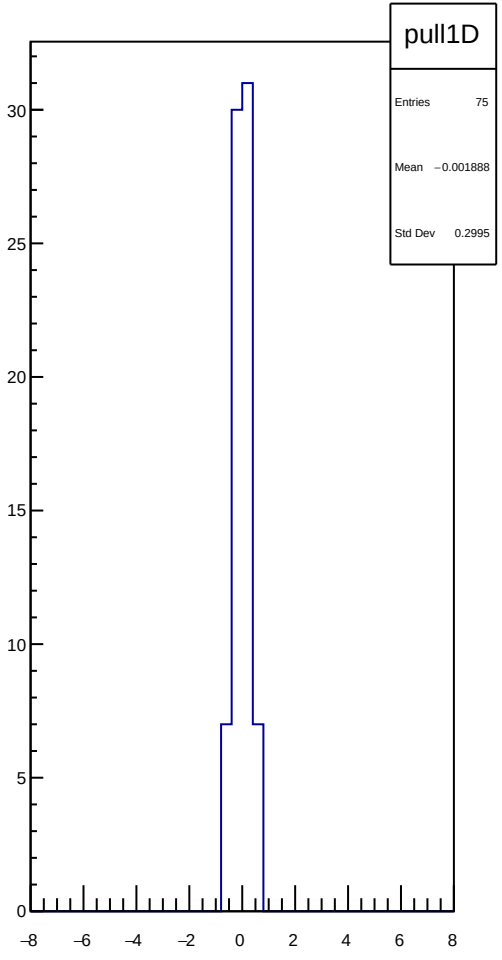

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 7.128 / 74
p0 114.6 ± 2.292
150
140
130
120
110
100
90
80
pull
Entries 75
Mean 594.2
Std Dev 564.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

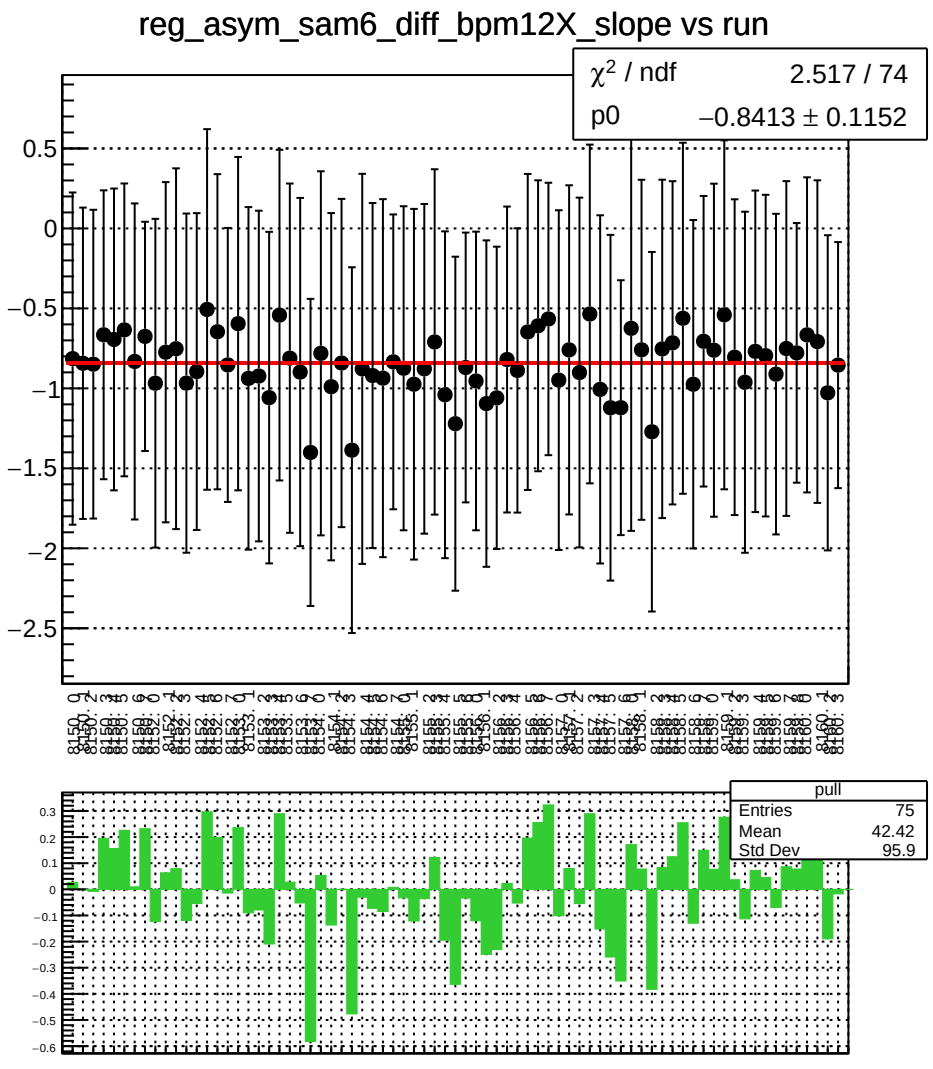

pull1D
Entries 75
Mean 0.003188
Std Dev 0.3083
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

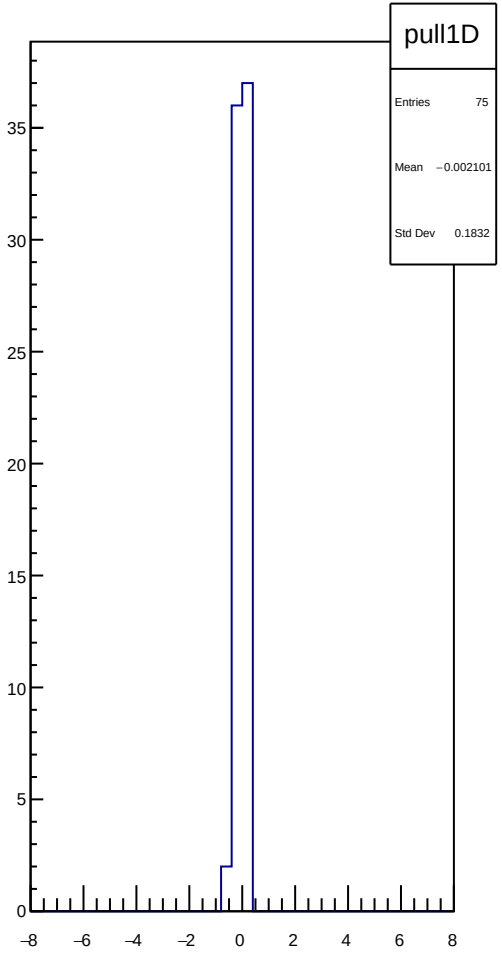

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 1.512 / 74
p0 42.75 ± 1.239
pull
Entries 75
Mean −509.8
Std Dev 547

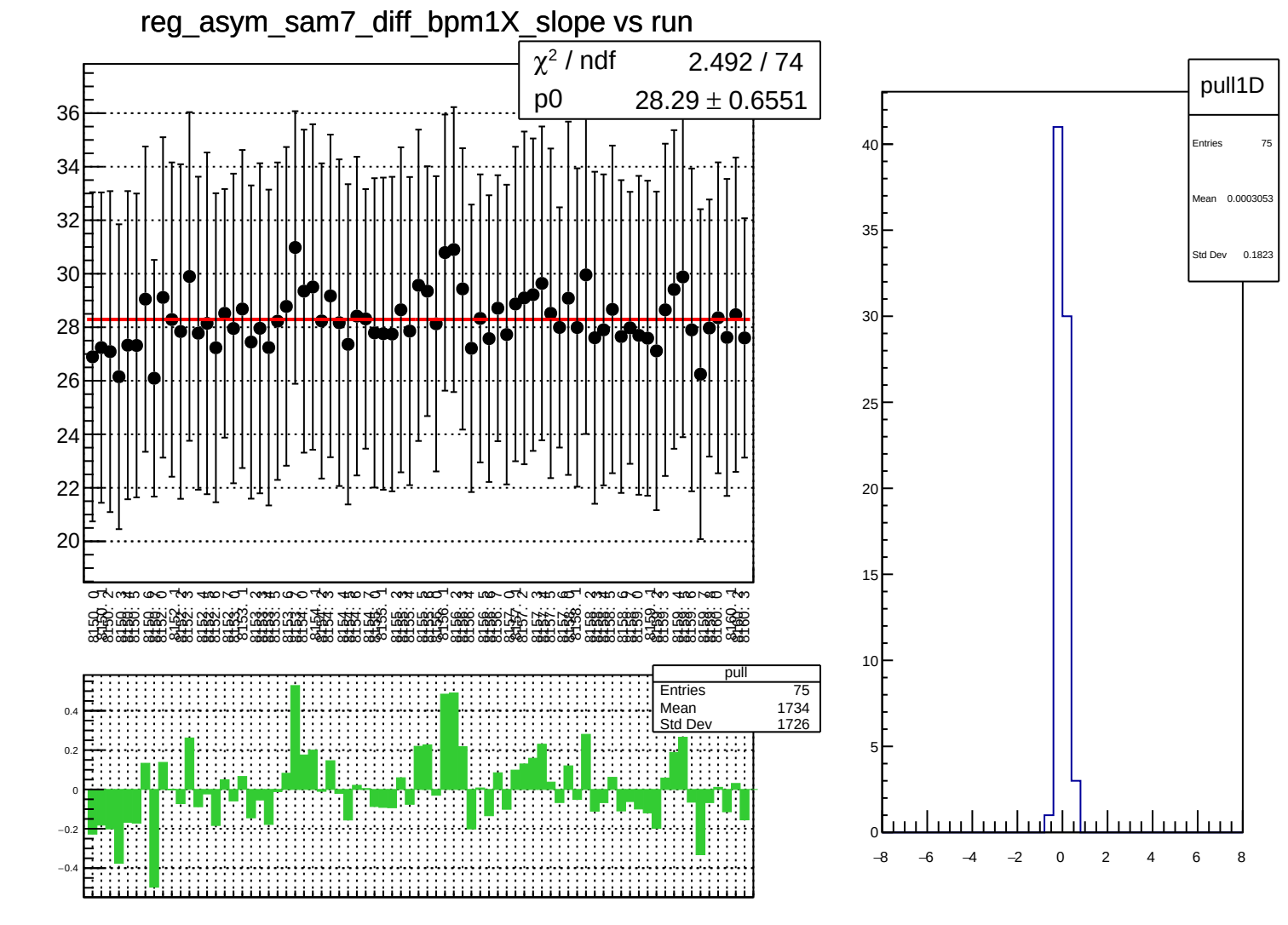

pull1D
Entries 75
Mean 0.001982
Std Dev 0.142

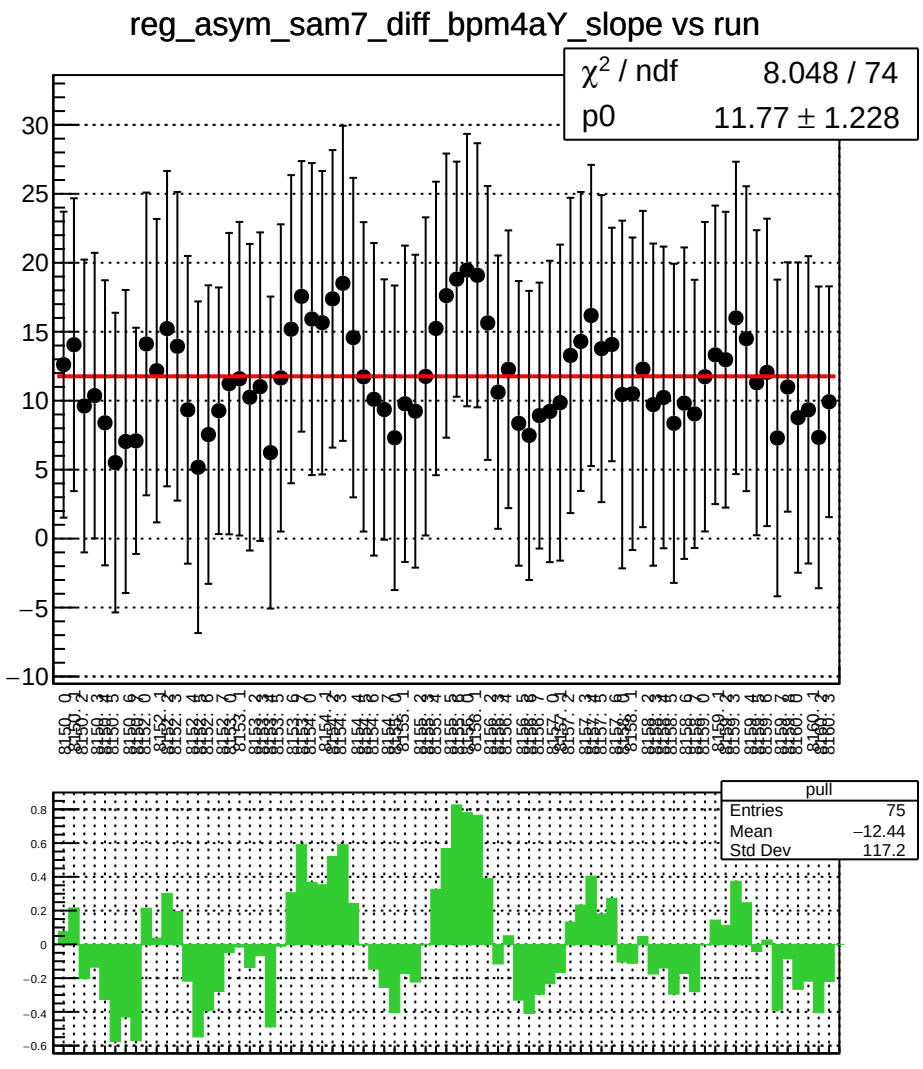

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 6.727 / 74
p0 −11.25 ± 2.456
pull
Entries 75
Mean 1157
Std Dev 1124

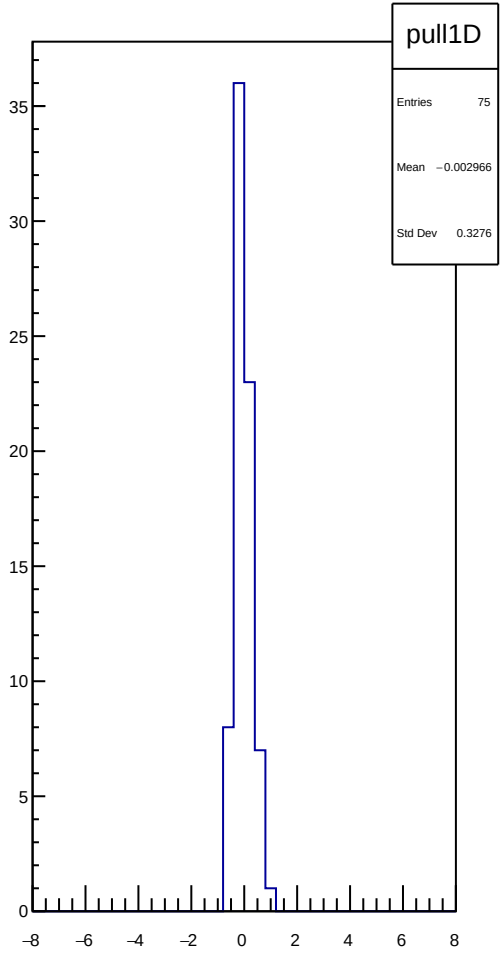

pull1D
Entries 75
Mean −0.001888
Std Dev 0.2995

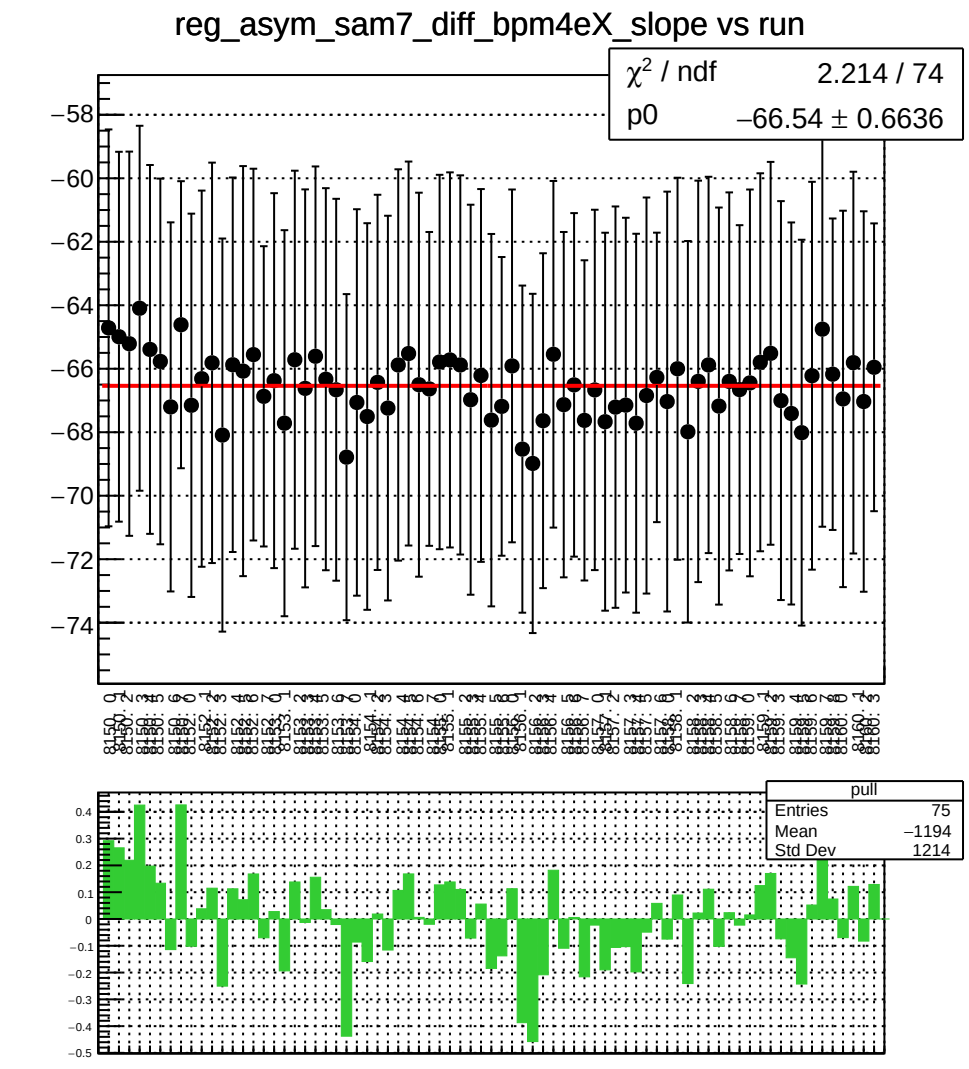

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 2.517 / 74
p0 −0.8413 ± 0.1152
pull
Entries 75
Mean 42.42
Std Dev 95.9

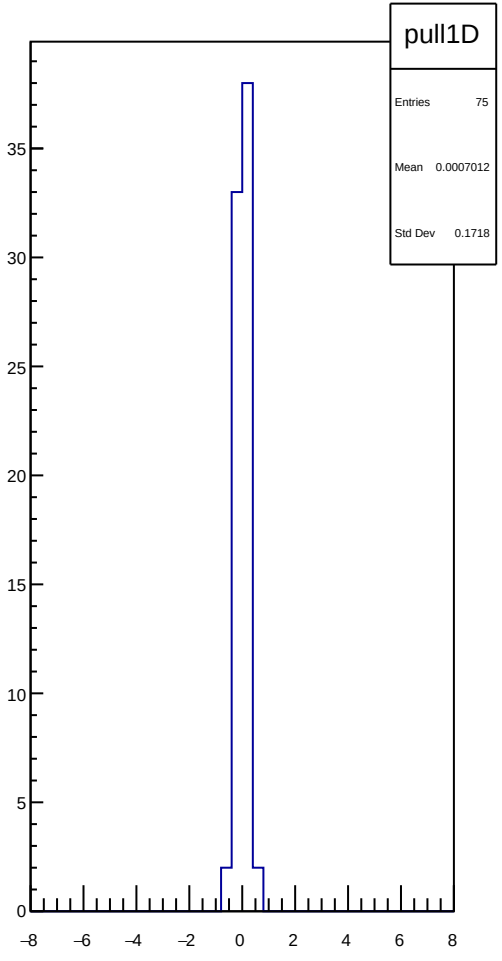

pull1D
Entries 75
Mean −0.002101
Std Dev 0.1832

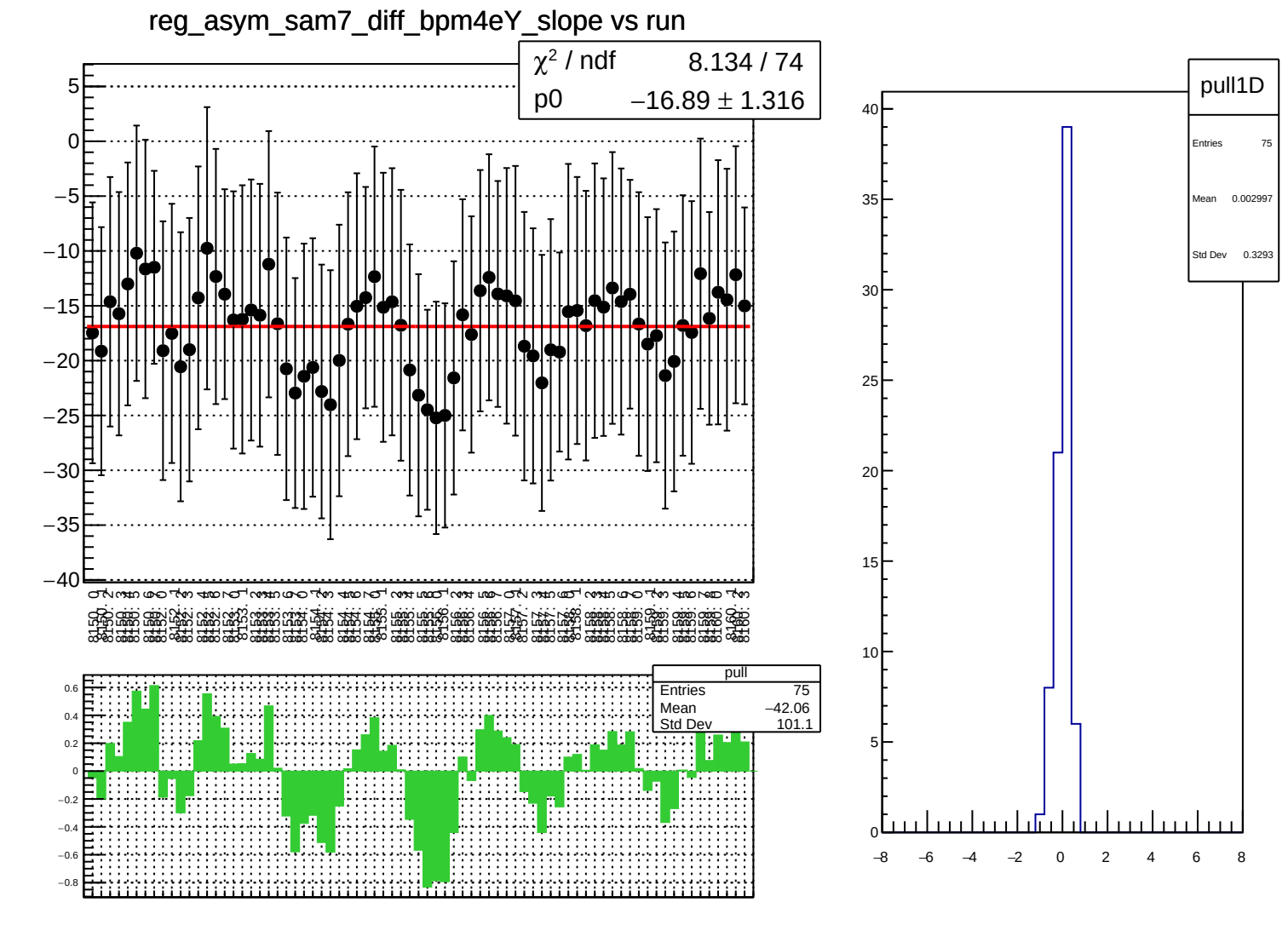

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 2.492 / 74
p0 28.29 ± 0.6551
pull
Entries 75
Mean 1734
Std Dev 1726
pull1D
Entries 75
Mean 0.0003053
Std Dev 0.1823

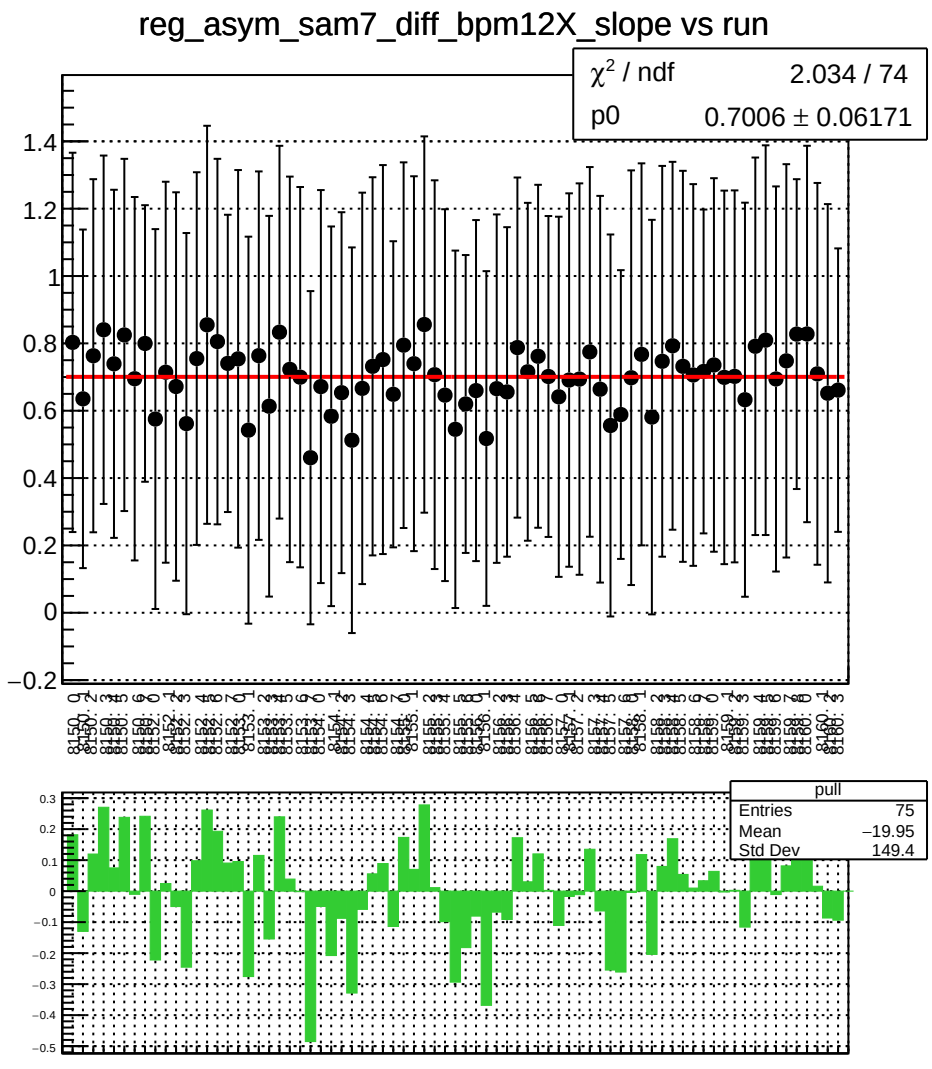

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 8.048 / 74
p0 11.77 ± 1.228
pull
Entries 75
Mean −12.44
Std Dev 117.2

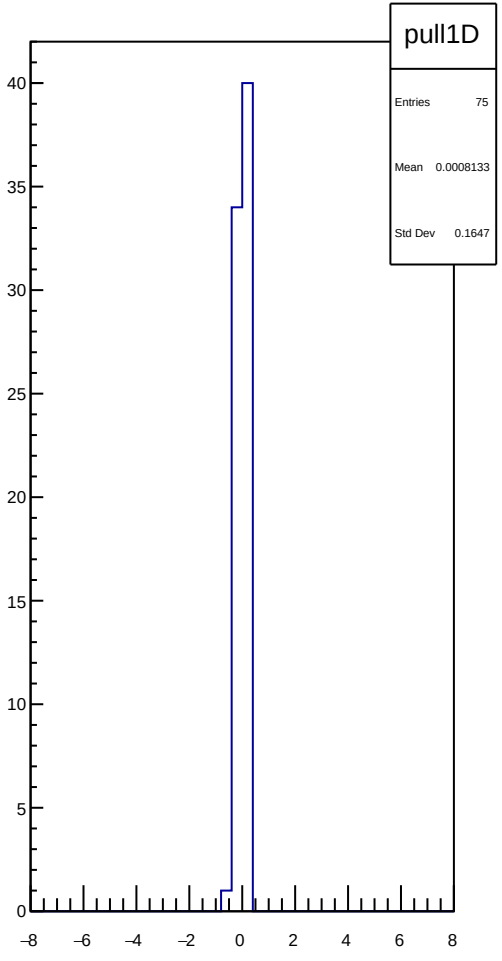

pull1D
Entries 75
Mean −0.002966
Std Dev 0.3276

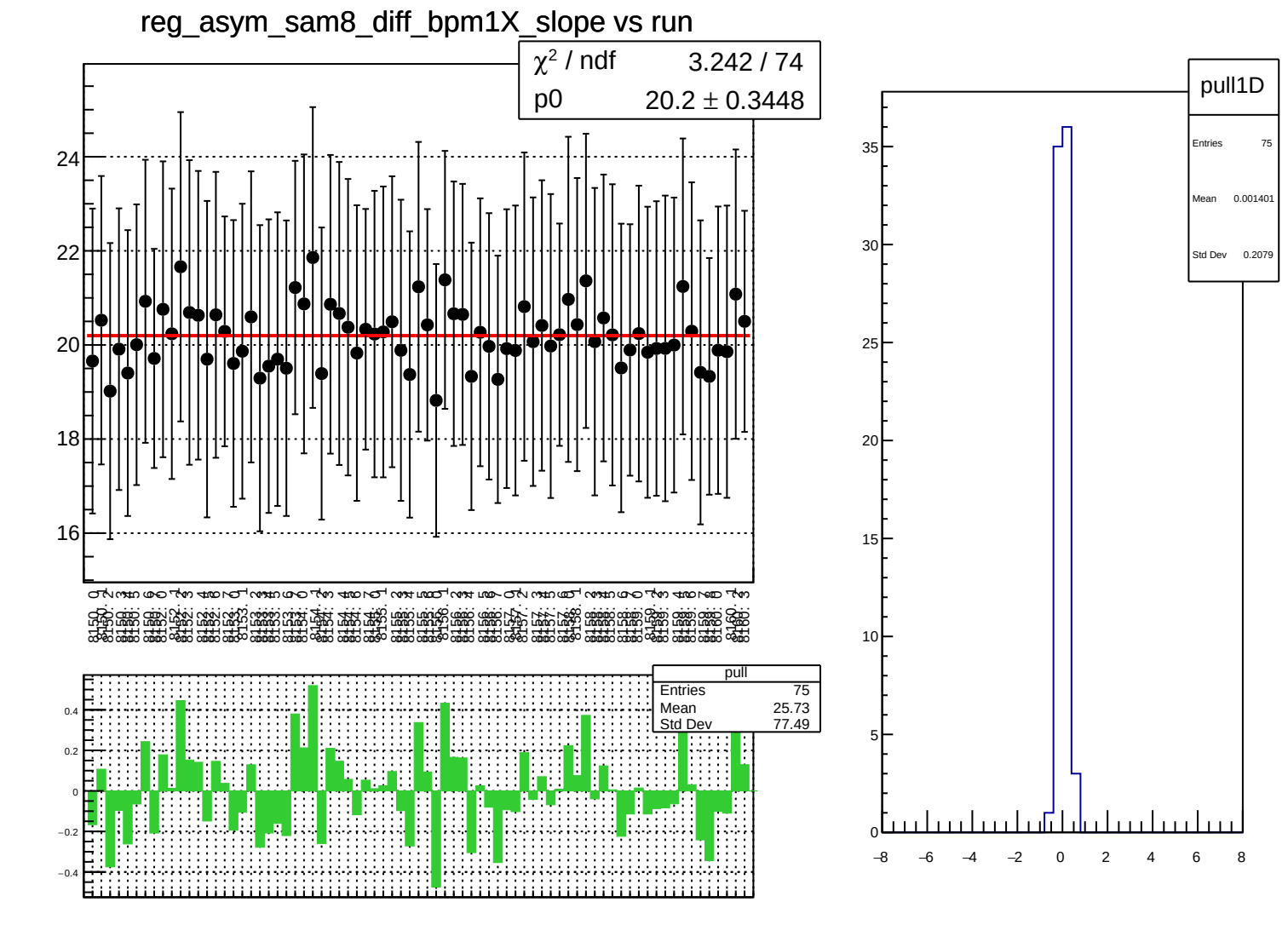

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 2.214 / 74
p0 −66.54 ± 0.6636
pull
Entries 75
Mean −1194
Std Dev 1214

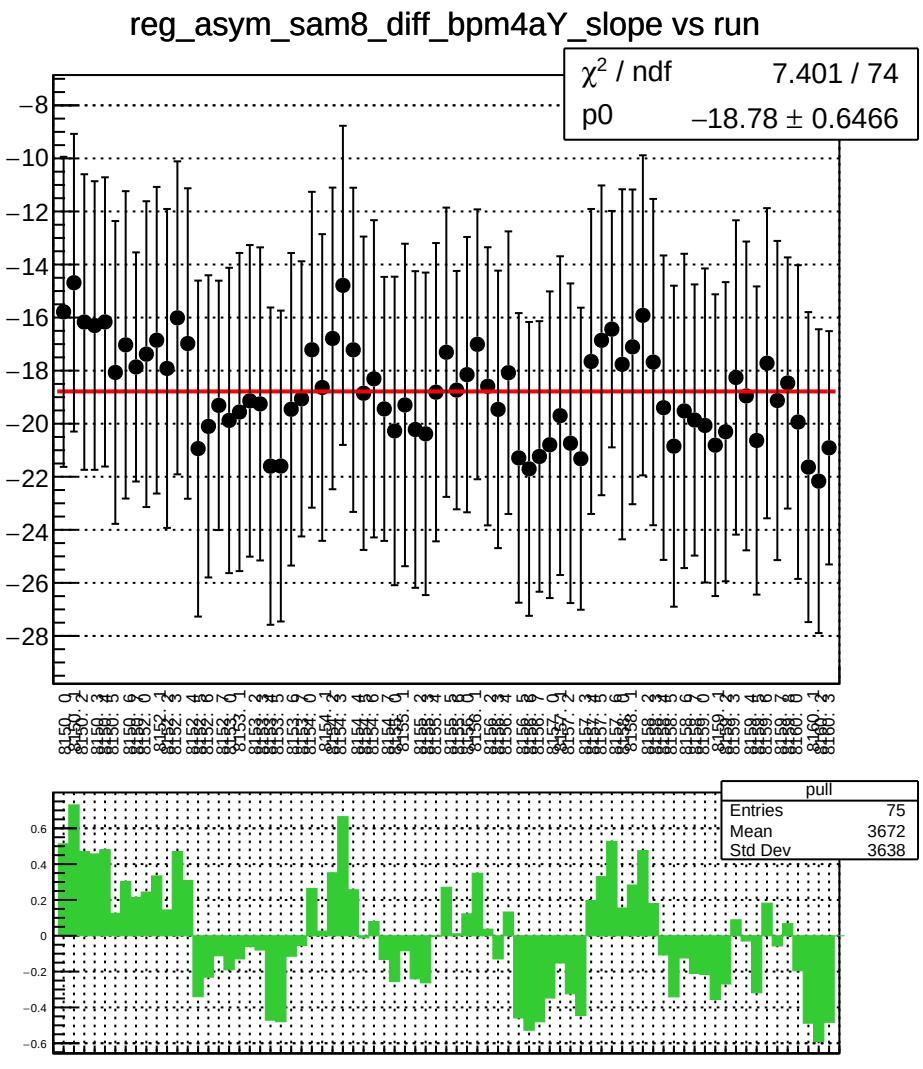

pull1D
Entries 75
Mean 0.0007012
Std Dev 0.1718

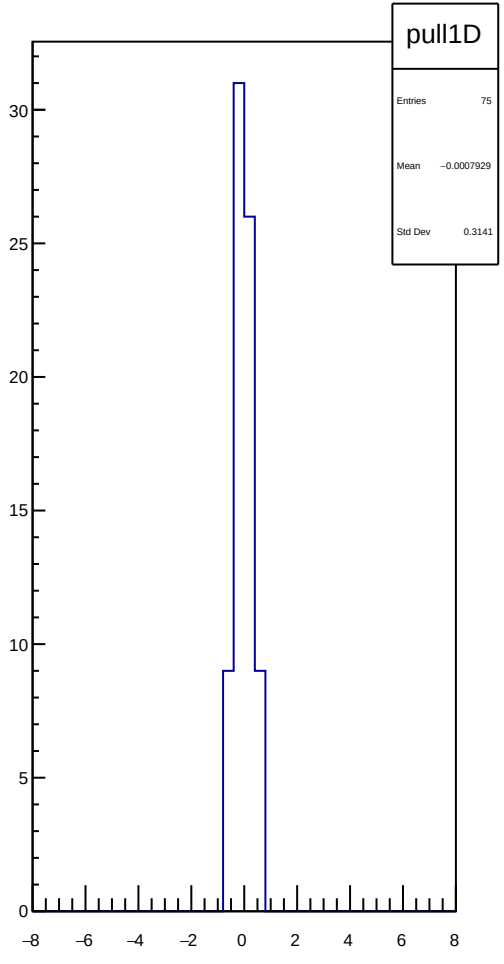

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 8.134 / 74
p0 −16.89 ± 1.316
pull
Entries 75
Mean −42.06
Std Dev 101.1
pull1D
Entries 75
Mean 0.002997
Std Dev 0.3293

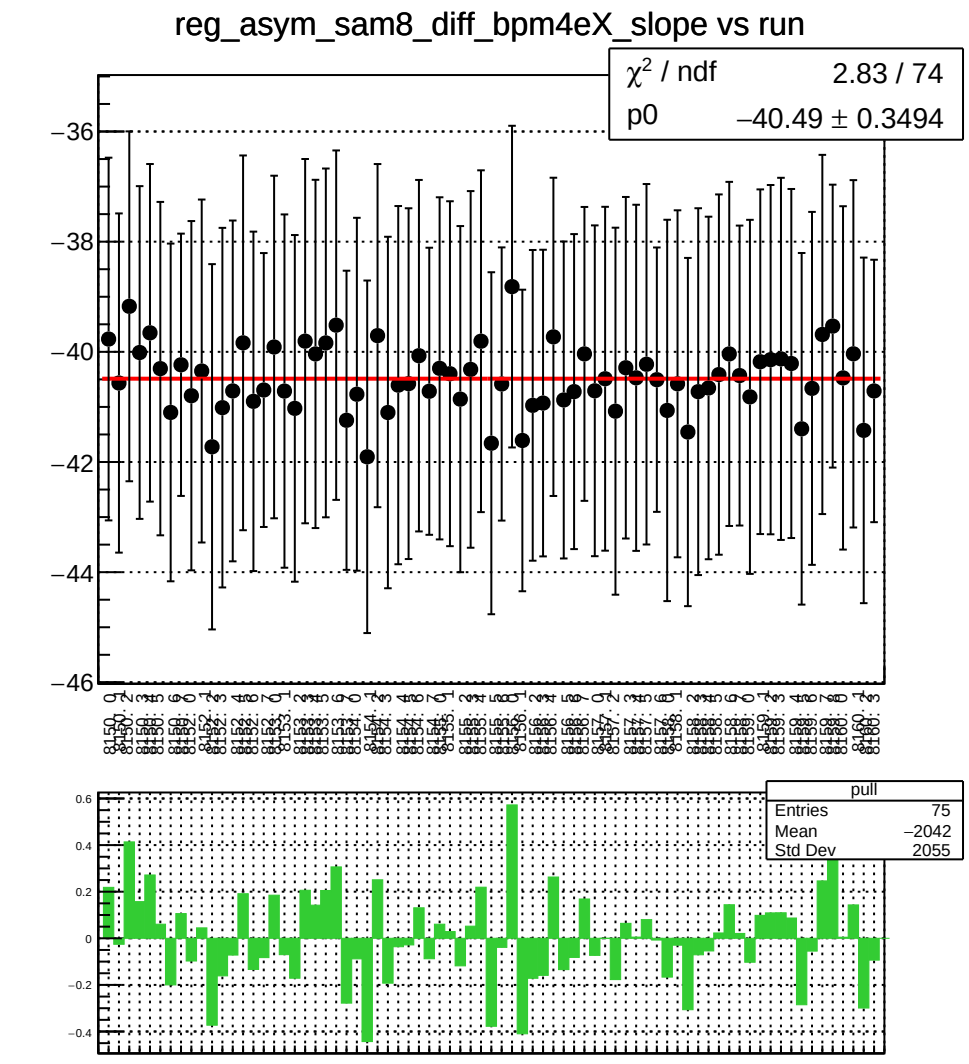

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 2.034 / 74
p0 0.7006 ± 0.06171
pull
Entries 75
Mean −19.95
Std Dev 149.4

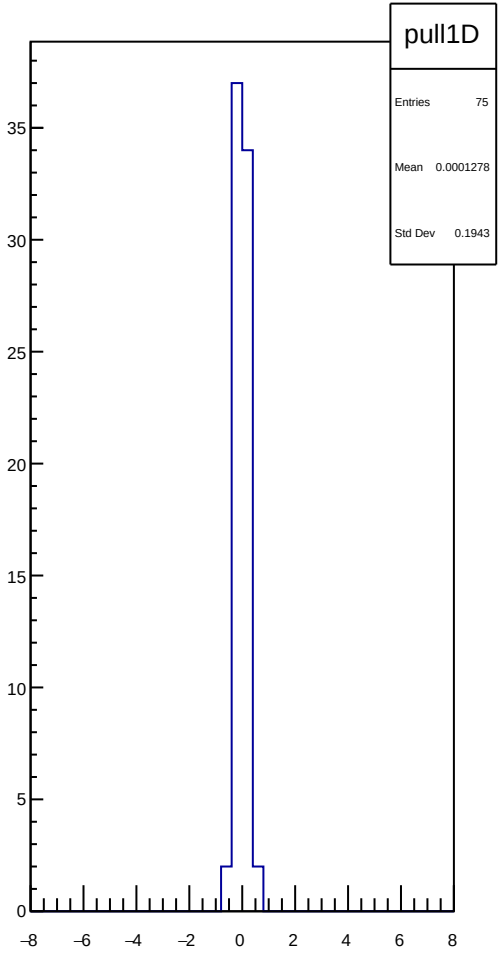

pull1D
Entries 75
Mean 0.0008133
Std Dev 0.1647

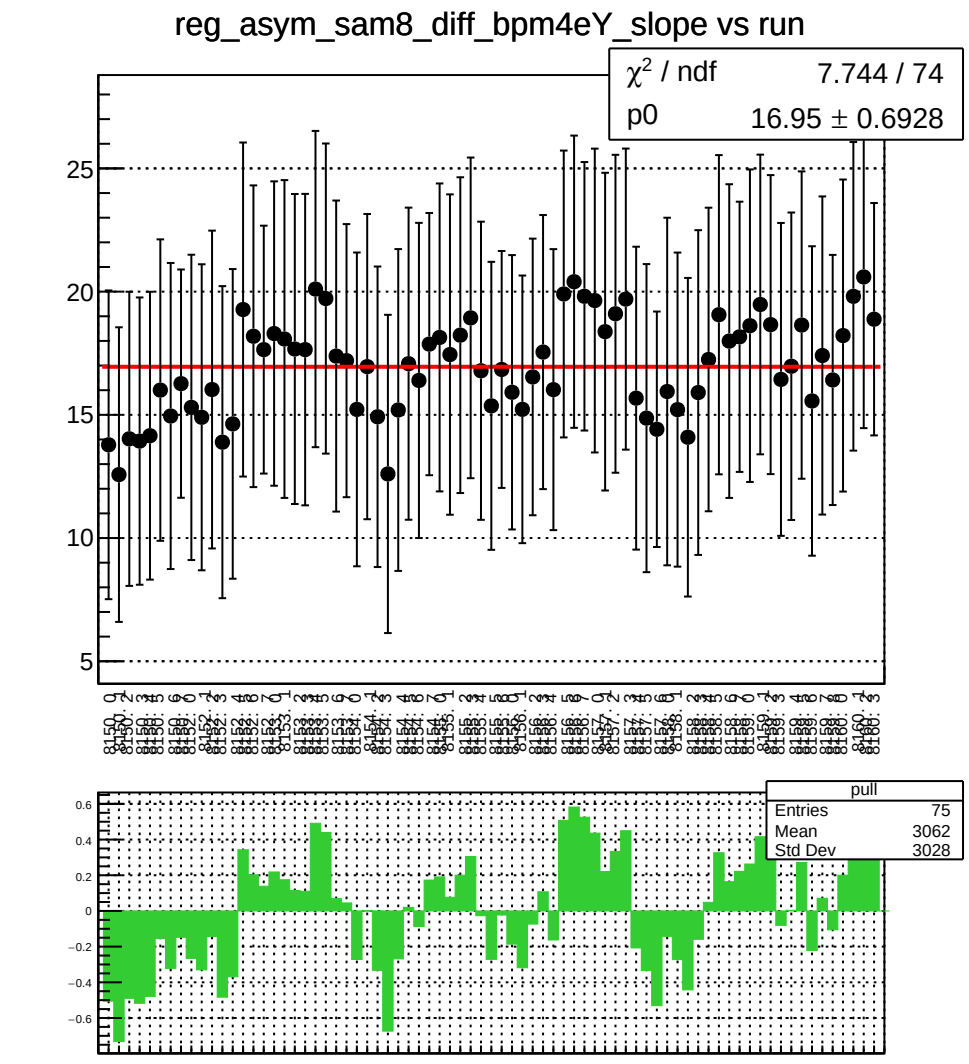

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 3.242 / 74
p0 20.2 ± 0.3448
pull
Entries 75
Mean 25.73
Std Dev 77.49
pull1D
Entries 75
Mean 0.001401
Std Dev 0.2079

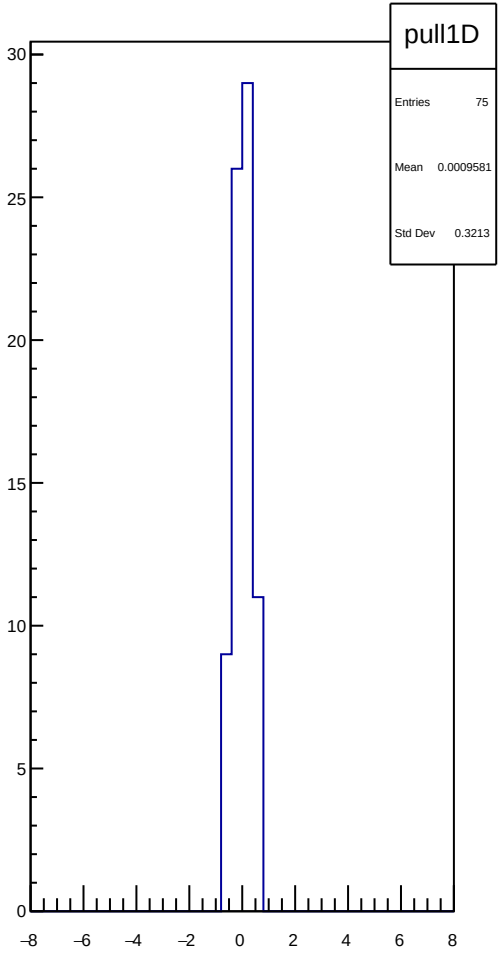

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 7.401 / 74
p0 −18.78 ± 0.6466
pull
Entries 75
Mean 3672
Std Dev 3638

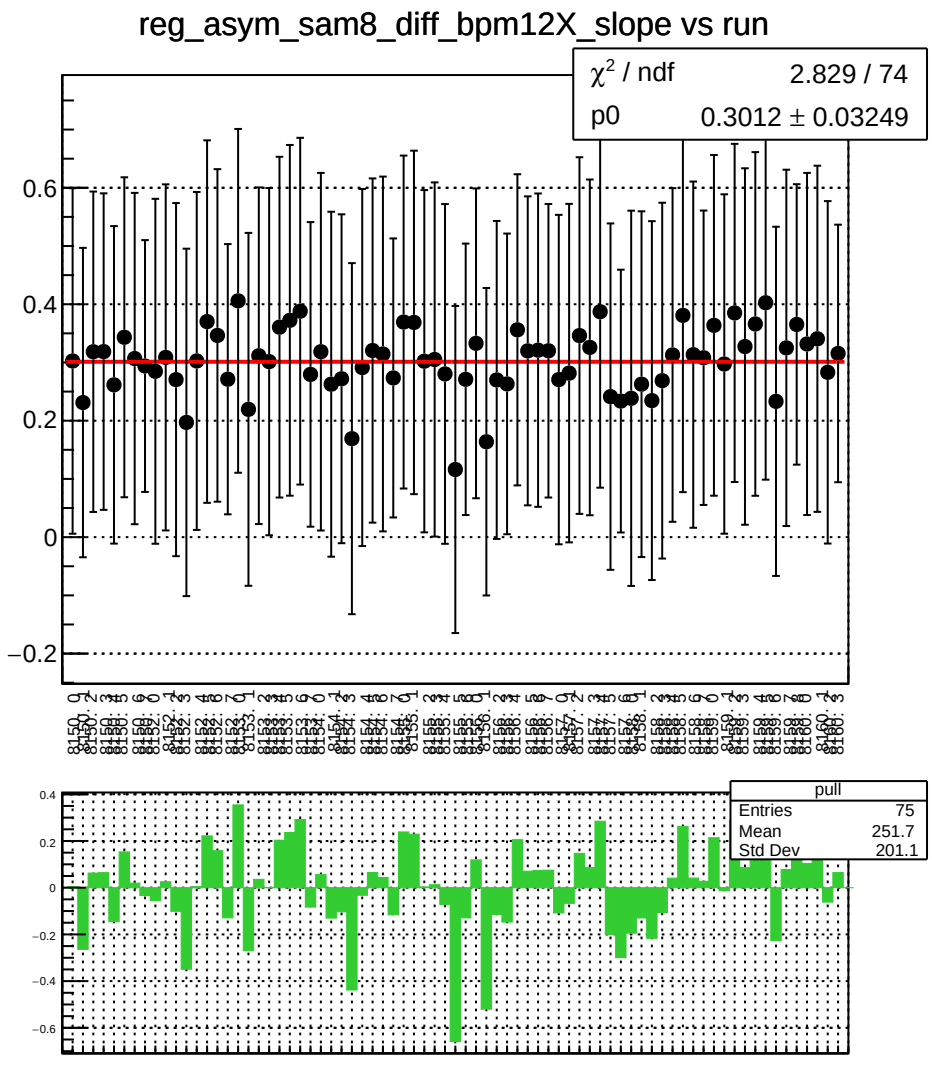

pull1D
Entries 75
Mean −0.0007929
Std Dev 0.3141

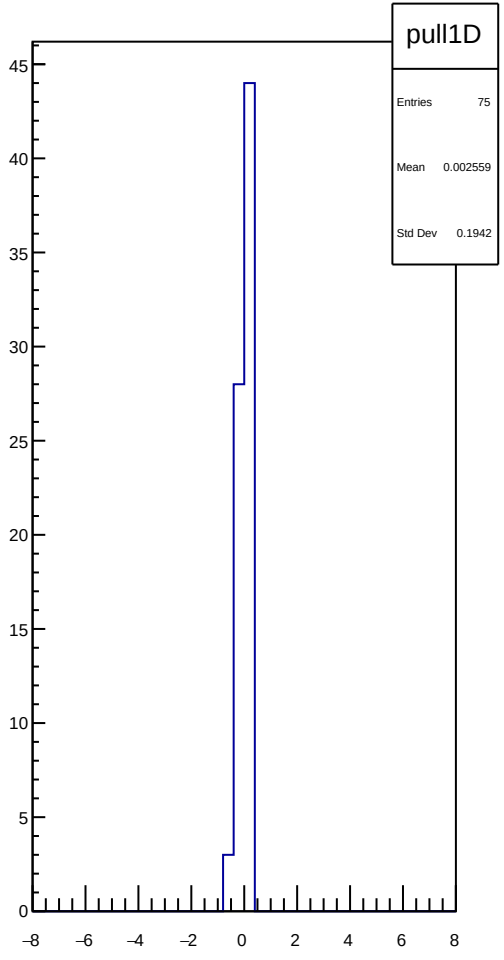

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 2.83 / 74
p0 −40.49 ± 0.3494
pull
Entries 75
Mean −2042
Std Dev 2055

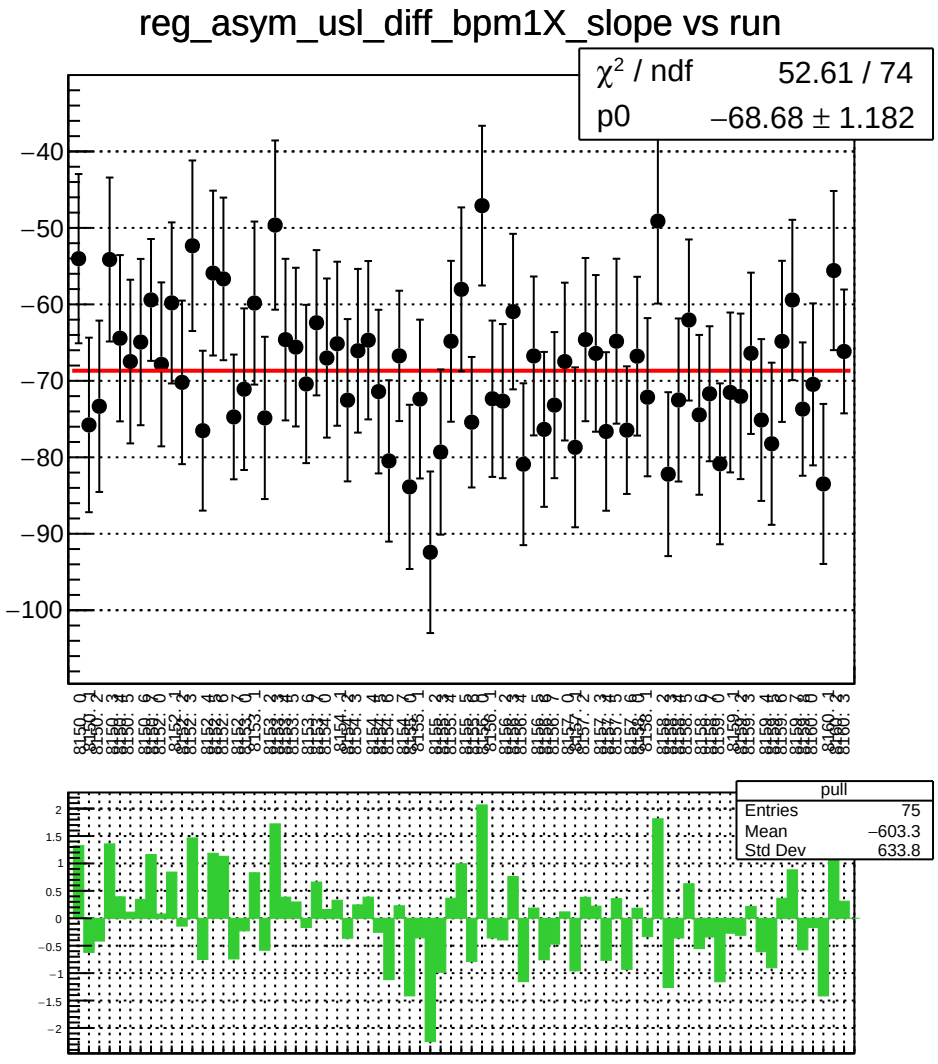

pull1D
Entries 75
Mean 0.0001278
Std Dev 0.1943

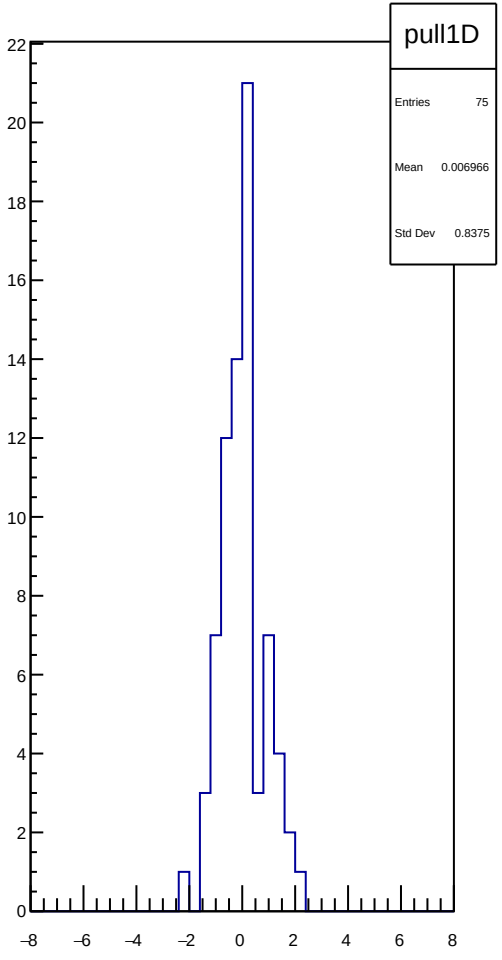

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 7.744 / 74
p0 16.95 ± 0.6928
pull
Entries 75
Mean 3062
Std Dev 3028

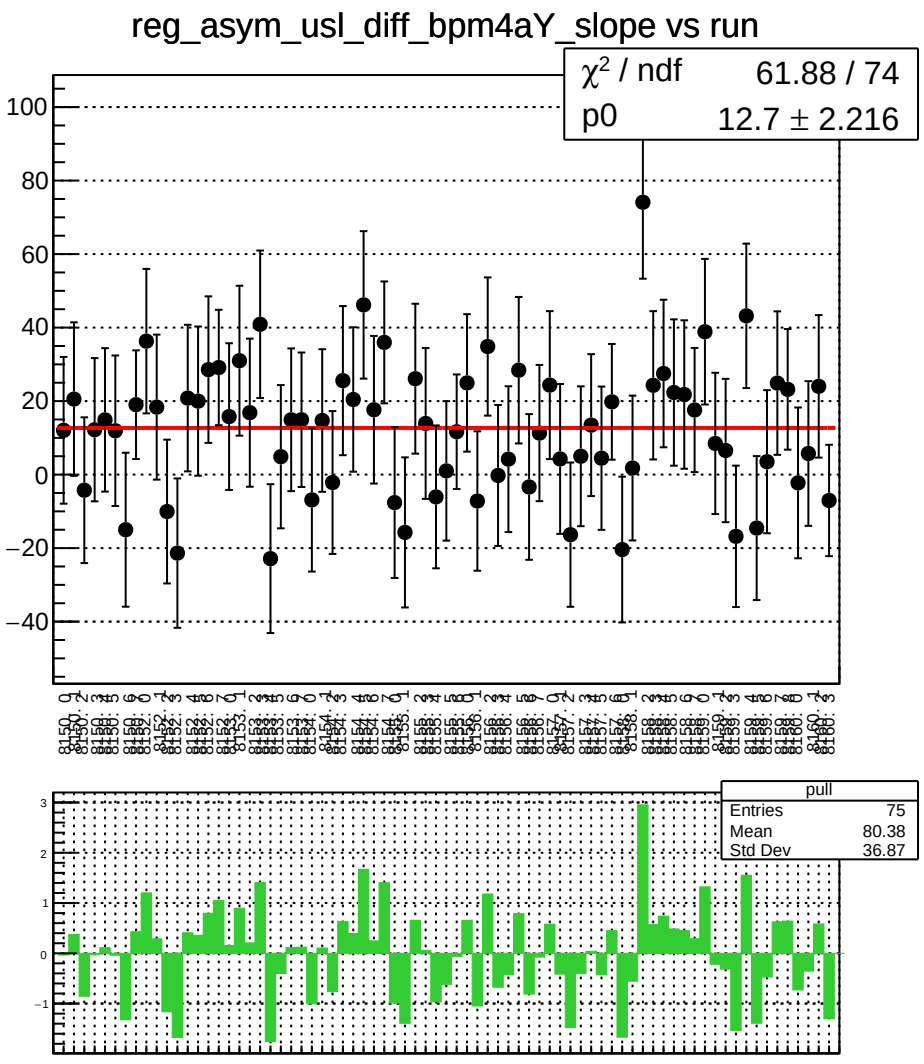

pull1D
Entries 75
Mean 0.0009581
Std Dev 0.3213

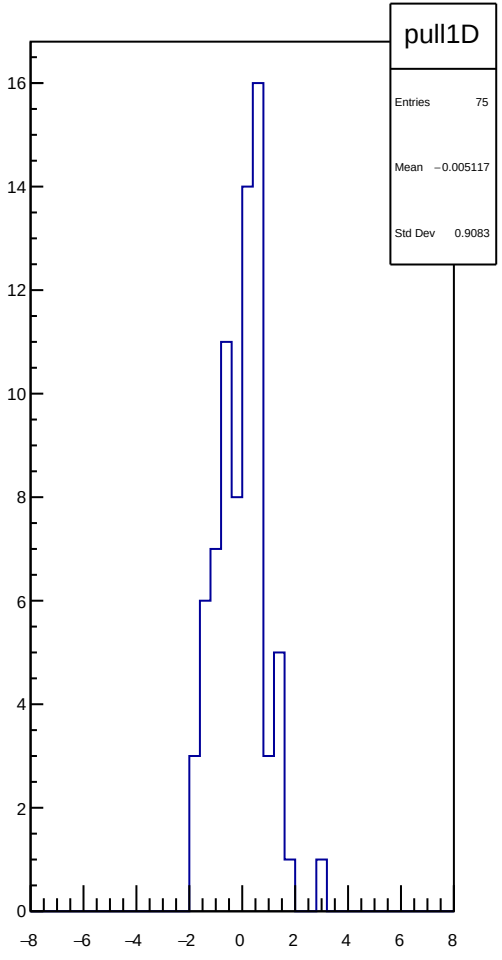

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 2.829 / 74
p0 0.3012 ± 0.03249
pull
Entries 75
Mean 251.7
Std Dev 201.1

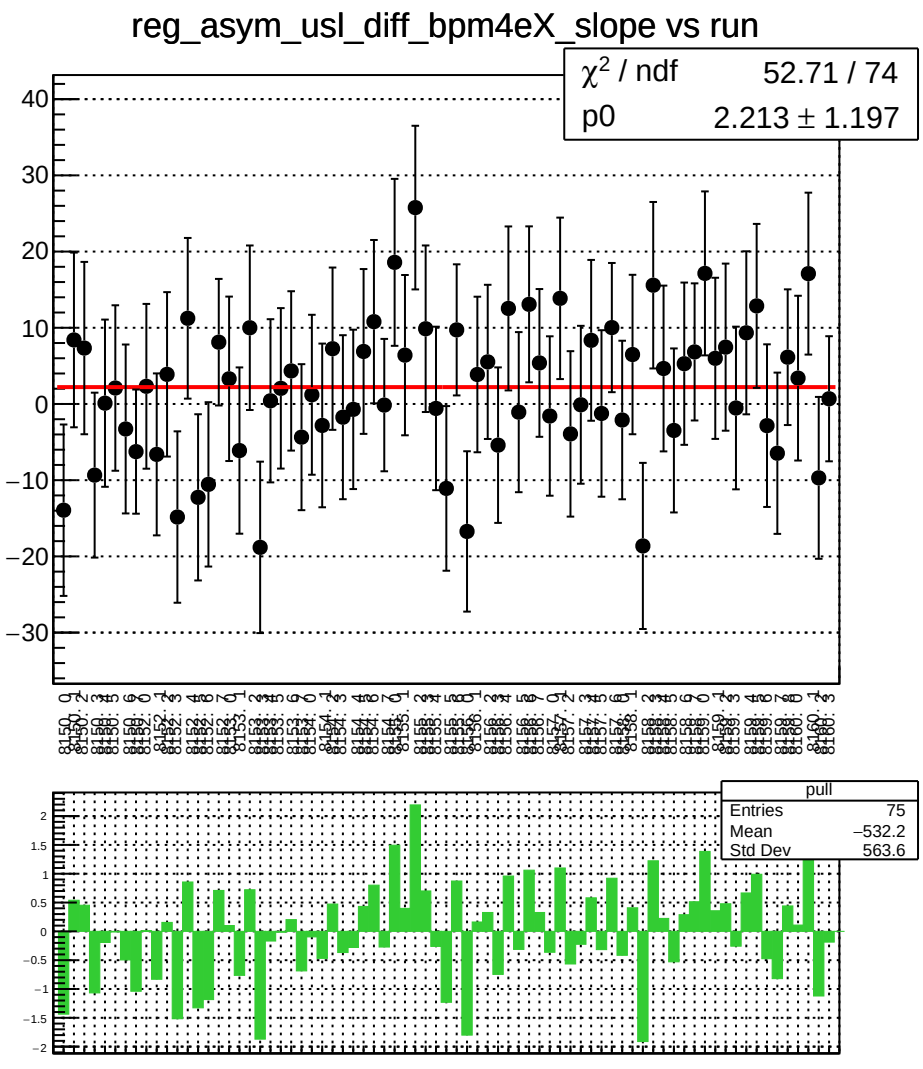

pull1D
Entries 75
Mean 0.002559
Std Dev 0.1942

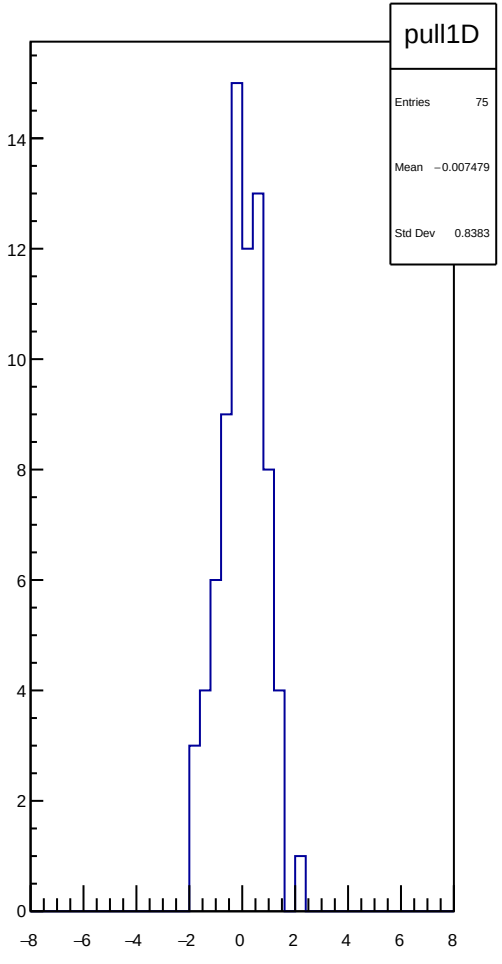

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 52.61 / 74
p0 −68.68 ± 1.182
pull
Entries 75
Mean −603.3
Std Dev 633.8

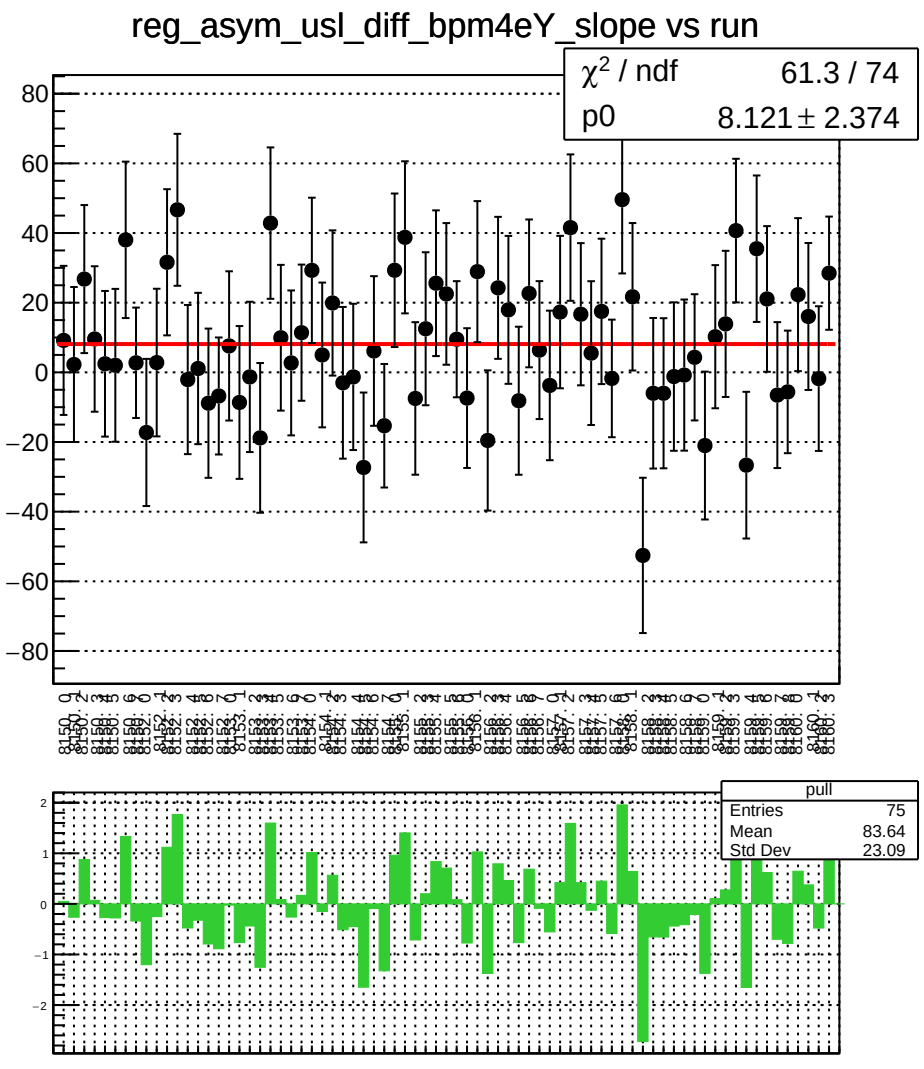

pull1D
Entries 75
Mean 0.006966
Std Dev 0.8375

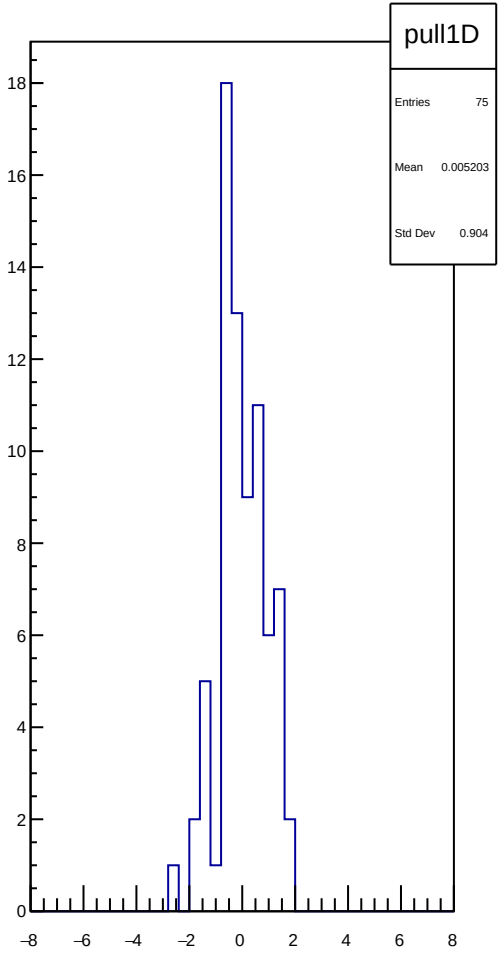

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 61.88 / 74
p0 12.7 ± 2.216
pull
Entries 75
Mean 80.38
Std Dev 36.87

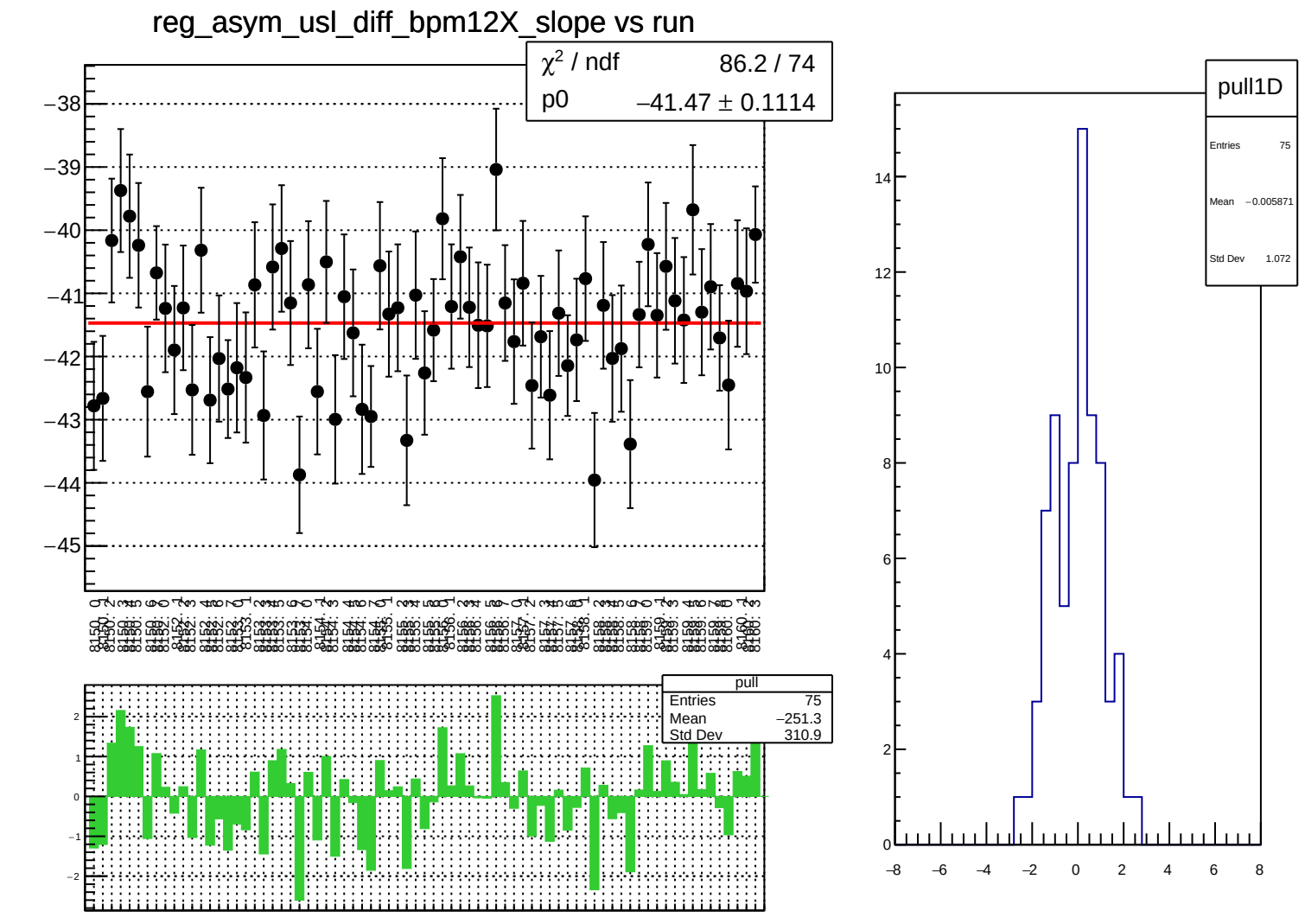

pull1D
Entries 75
Mean −0.005117
Std Dev 0.9083

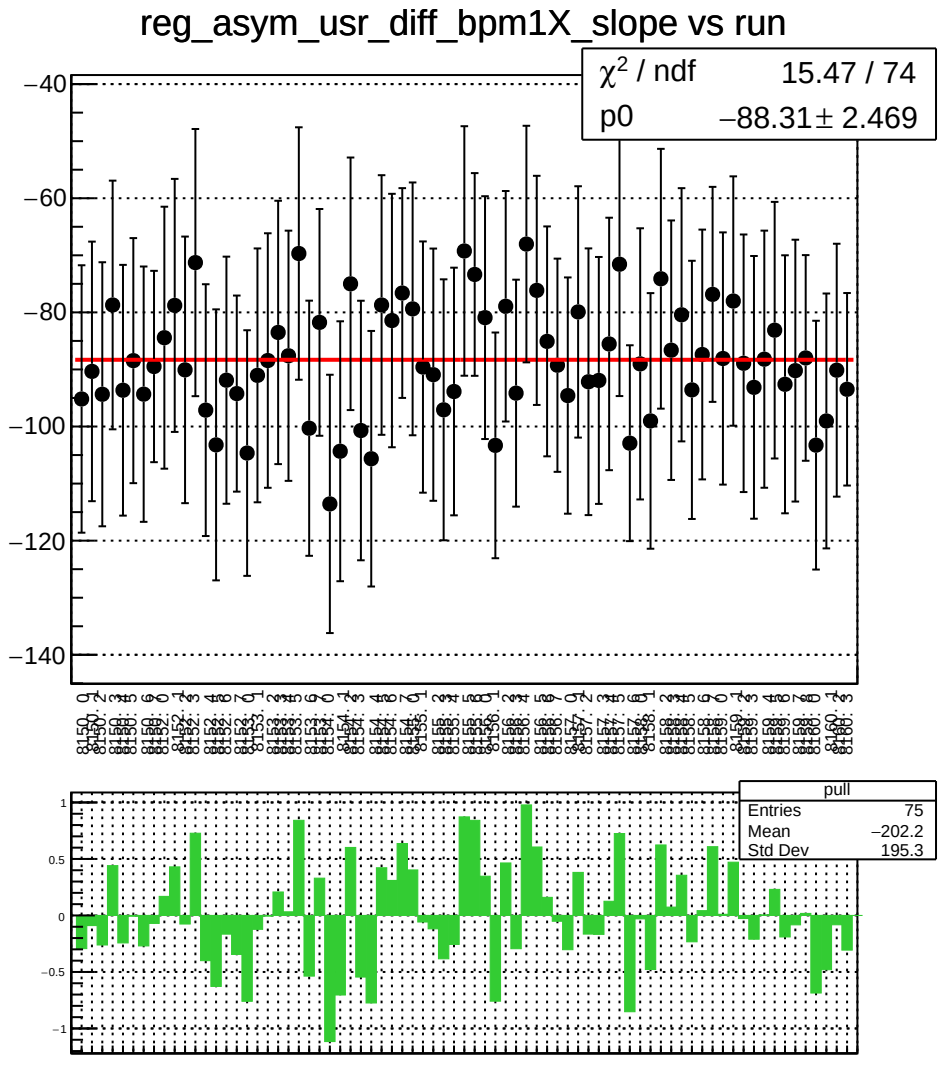

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 52.71 / 74
p0 2.213 ± 1.197
pull
Entries 75
Mean −532.2
Std Dev 563.6

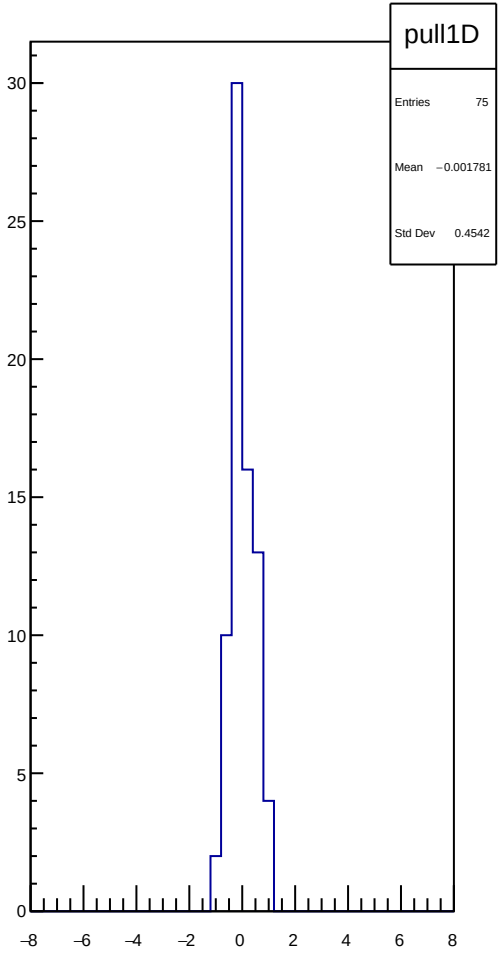

pull1D
Entries 75
Mean −0.007479
Std Dev 0.8383

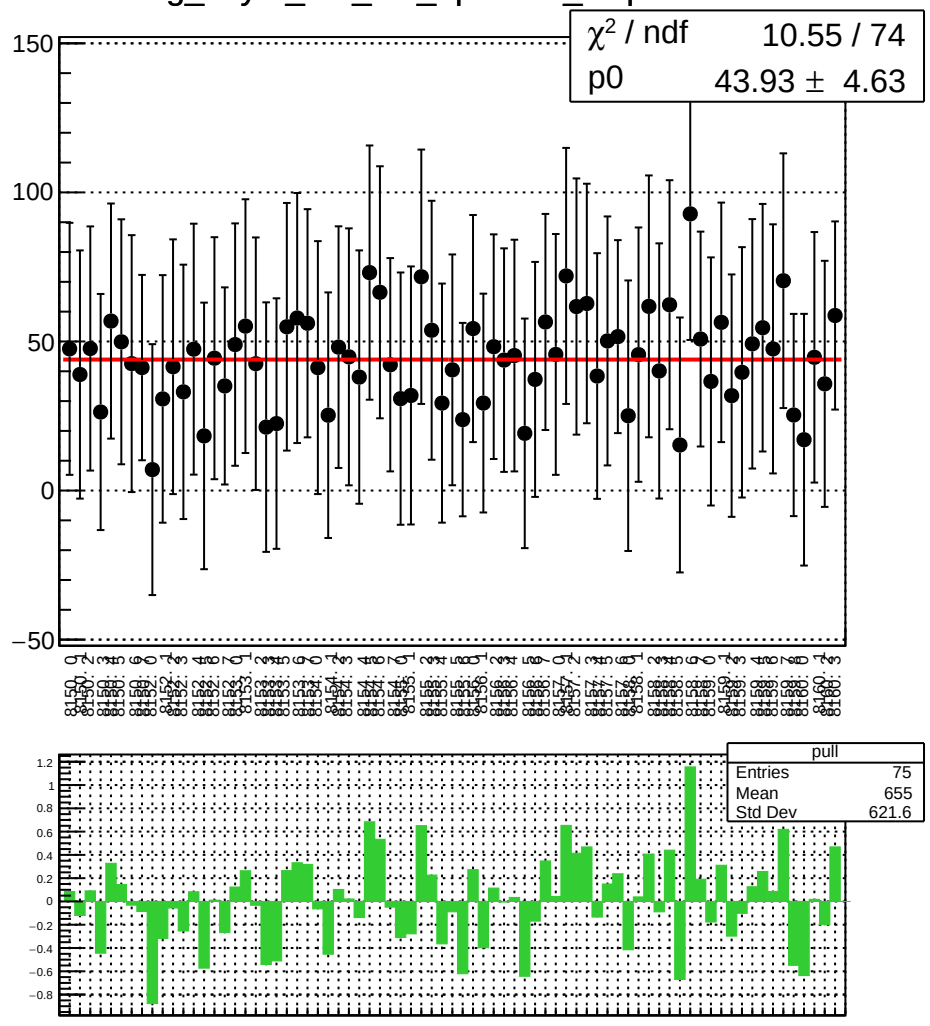

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 61.3 / 74
p0 8.121 ± 2.374
pull
Entries 75
Mean 83.64
Std Dev 23.09

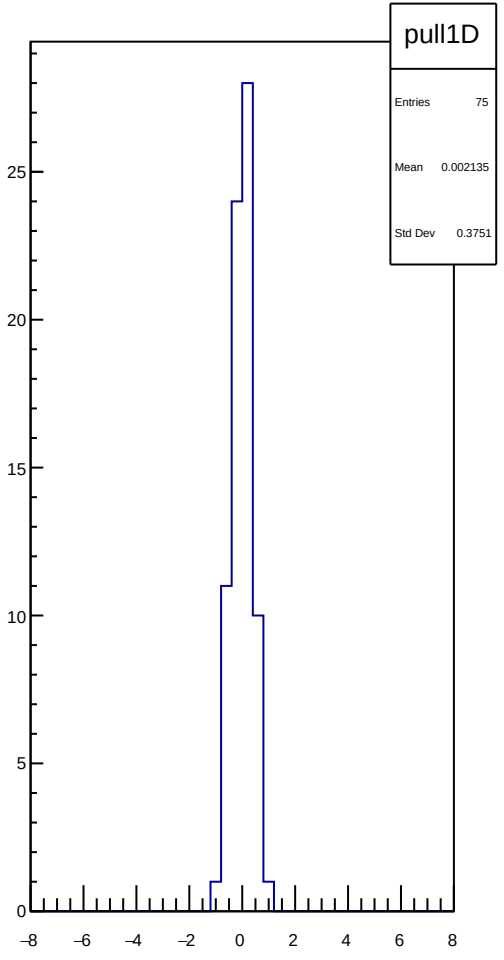

pull1D
Entries 75
Mean 0.005203
Std Dev 0.904

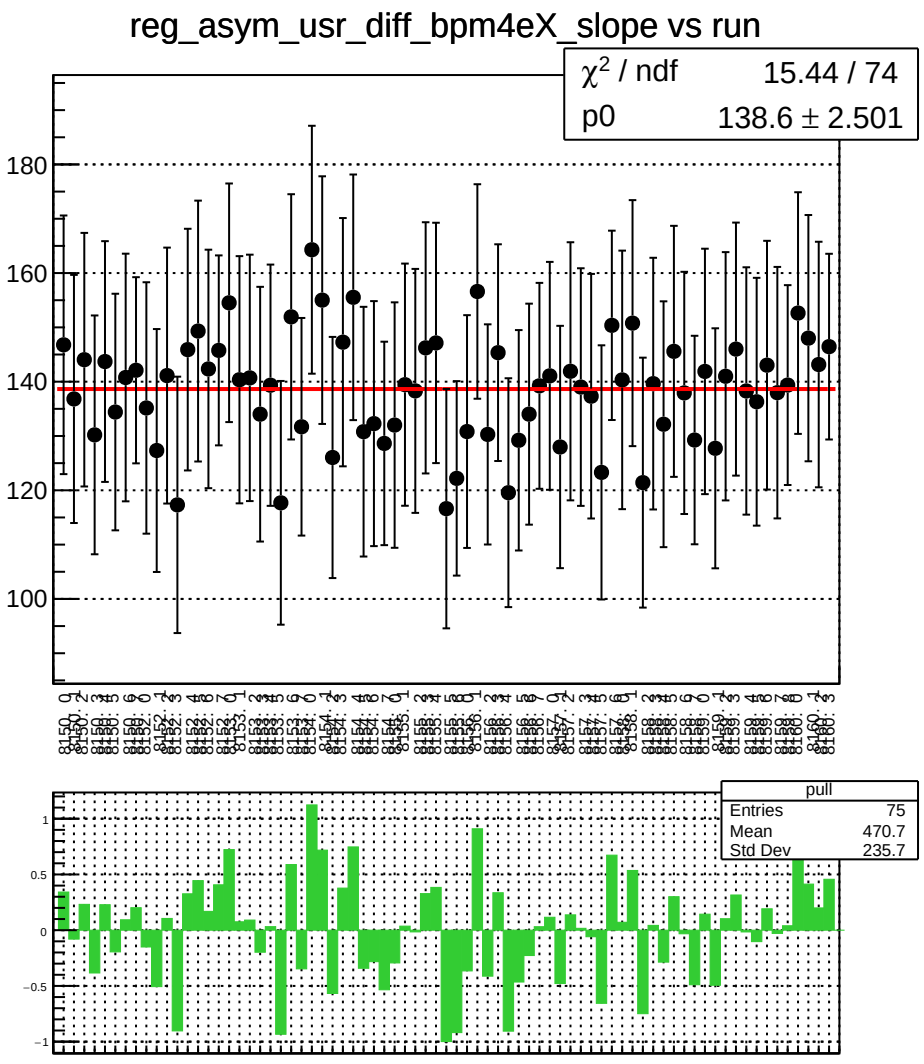

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 86.2 / 74
p0 −41.47 ± 0.1114
pull
Entries 75
Mean −251.3
Std Dev 310.9
pull1D
Entries 75
Mean −0.005871
Std Dev 1.072

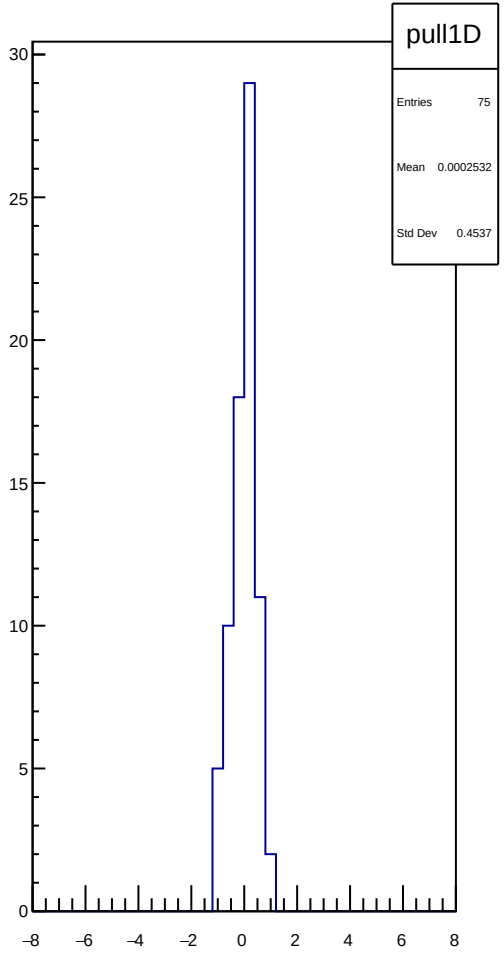

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 15.47 / 74
p0 −88.31 ± 2.469
pull
Entries 75
Mean −202.2
Std Dev 195.3

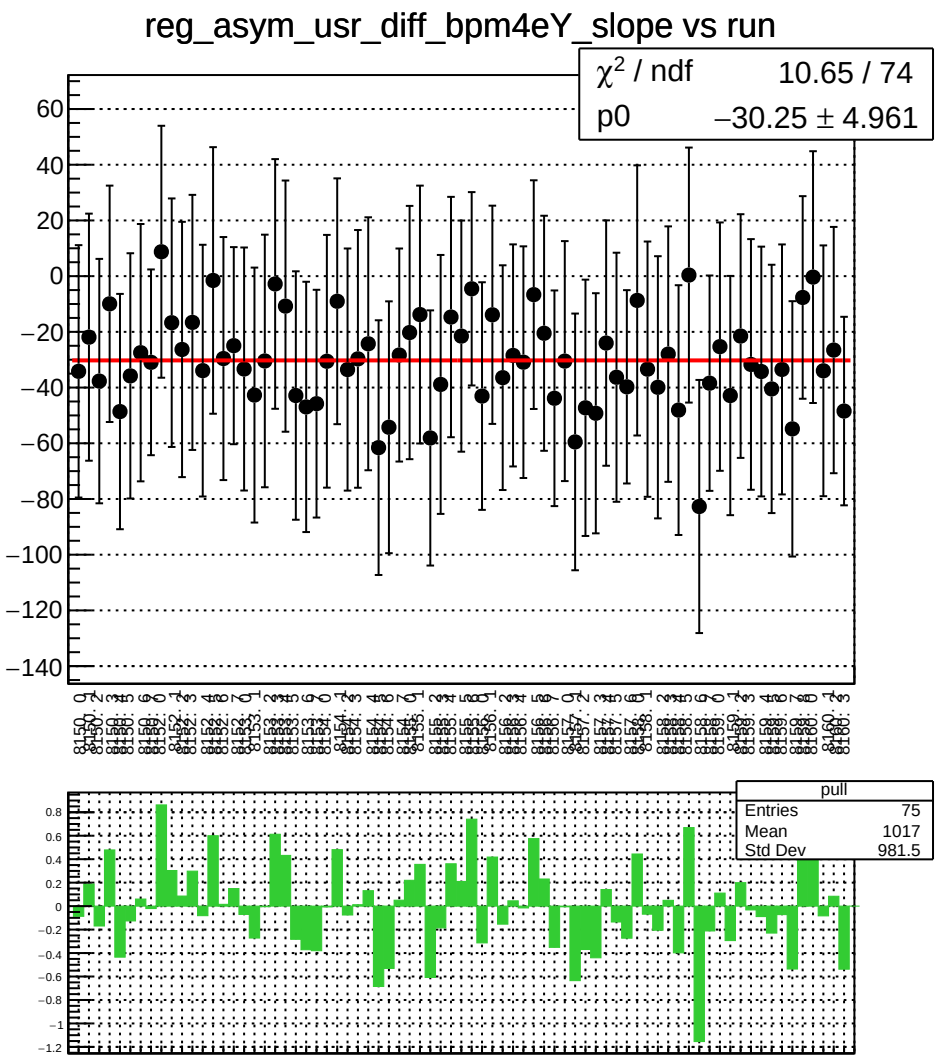

pull1D
Entries 75
Mean −0.001781
Std Dev 0.4542

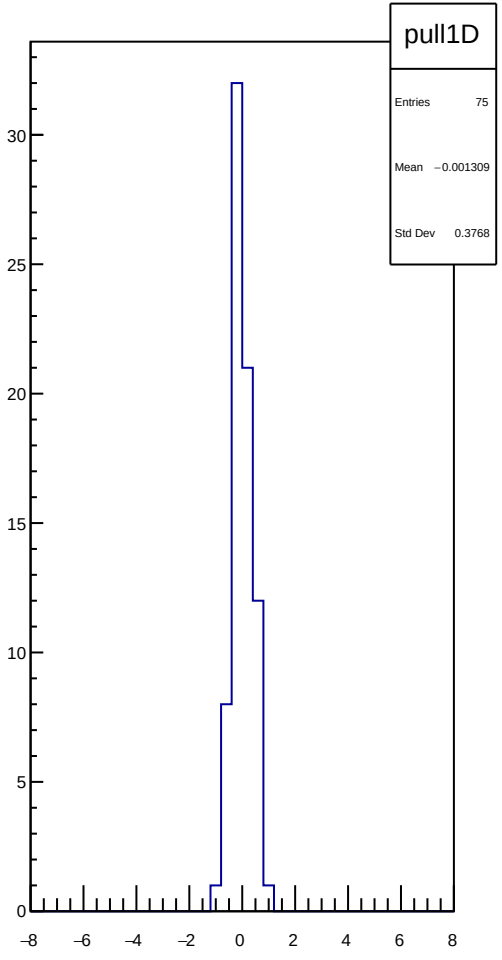

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 10.55 / 74
p0 43.93 ± 4.63
150
100
50
0
−50
pull
Entries 75
Mean 655
Std Dev 621.6
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

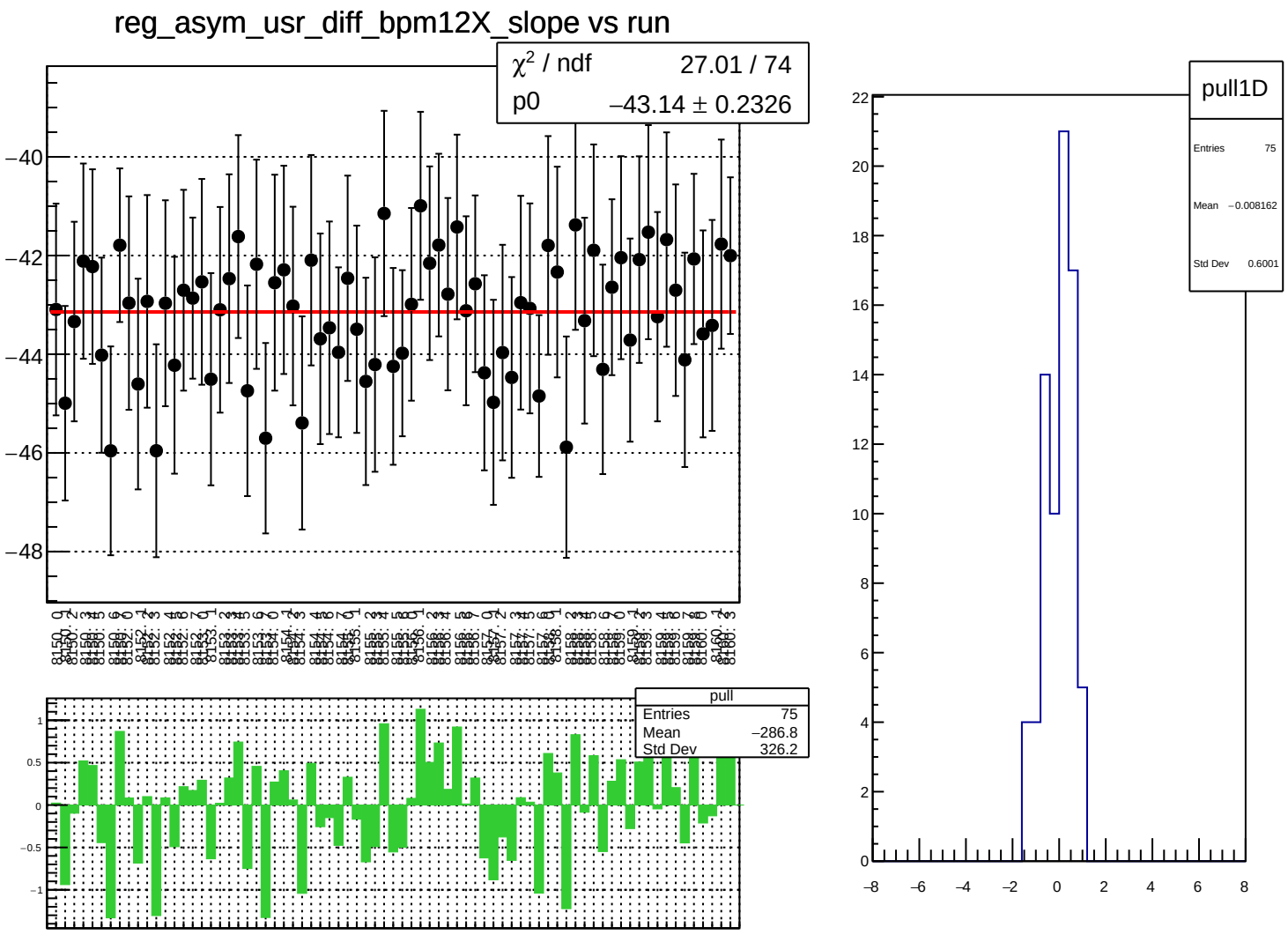

pull1D
Entries 75
Mean 0.002135
Std Dev 0.3751
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

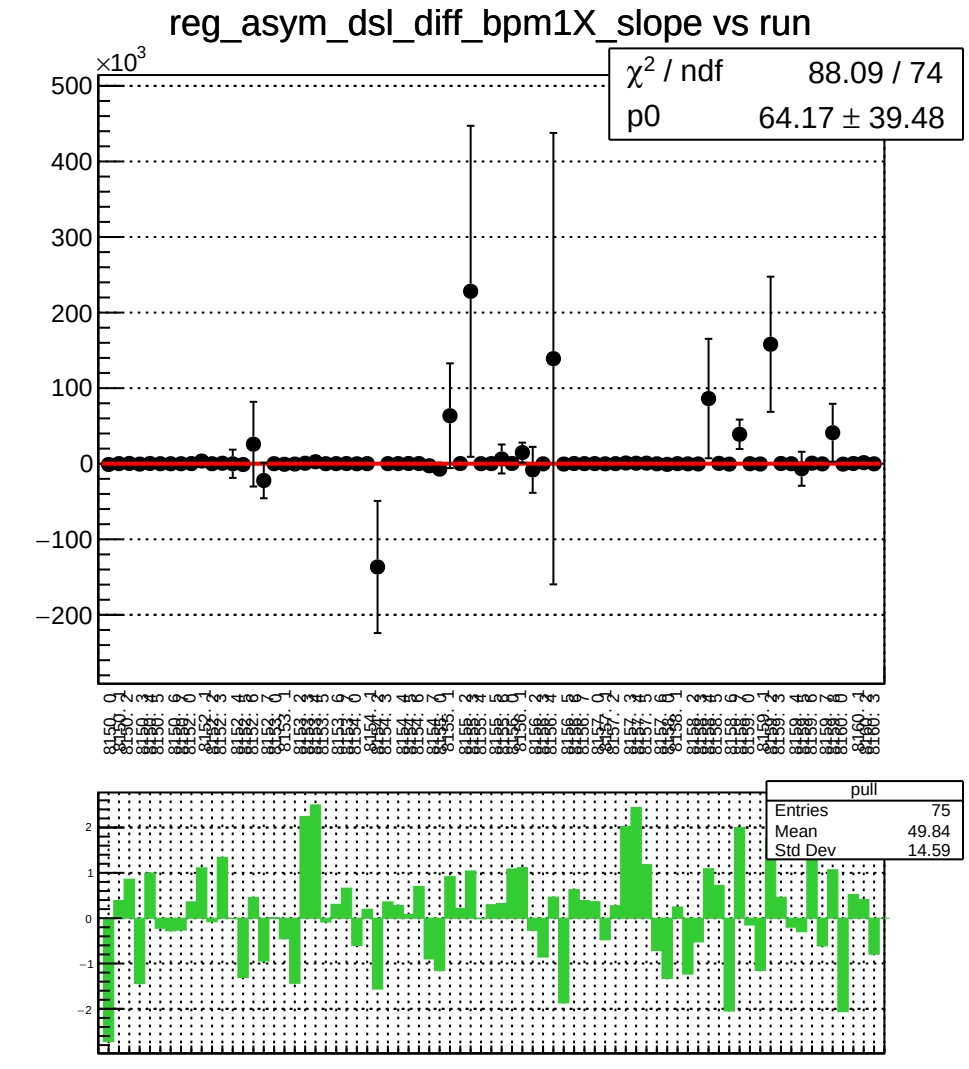

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 15.44 / 74
p0 138.6 ± 2.501
180
160
140
120
100
pull
Entries 75
Mean 470.7
Std Dev 235.7
1
0.5
0
−0.5
−1

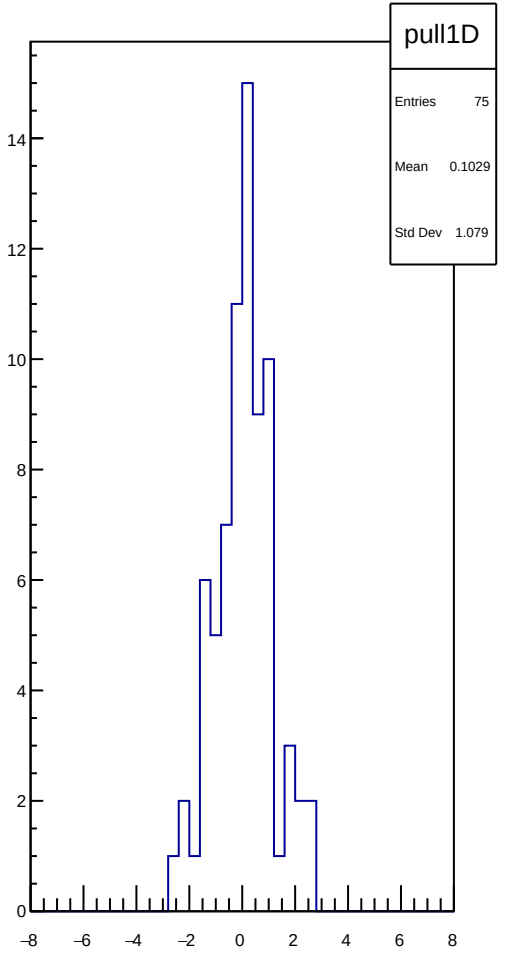

pull1D
Entries 75
Mean 0.0002532
Std Dev 0.4537
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

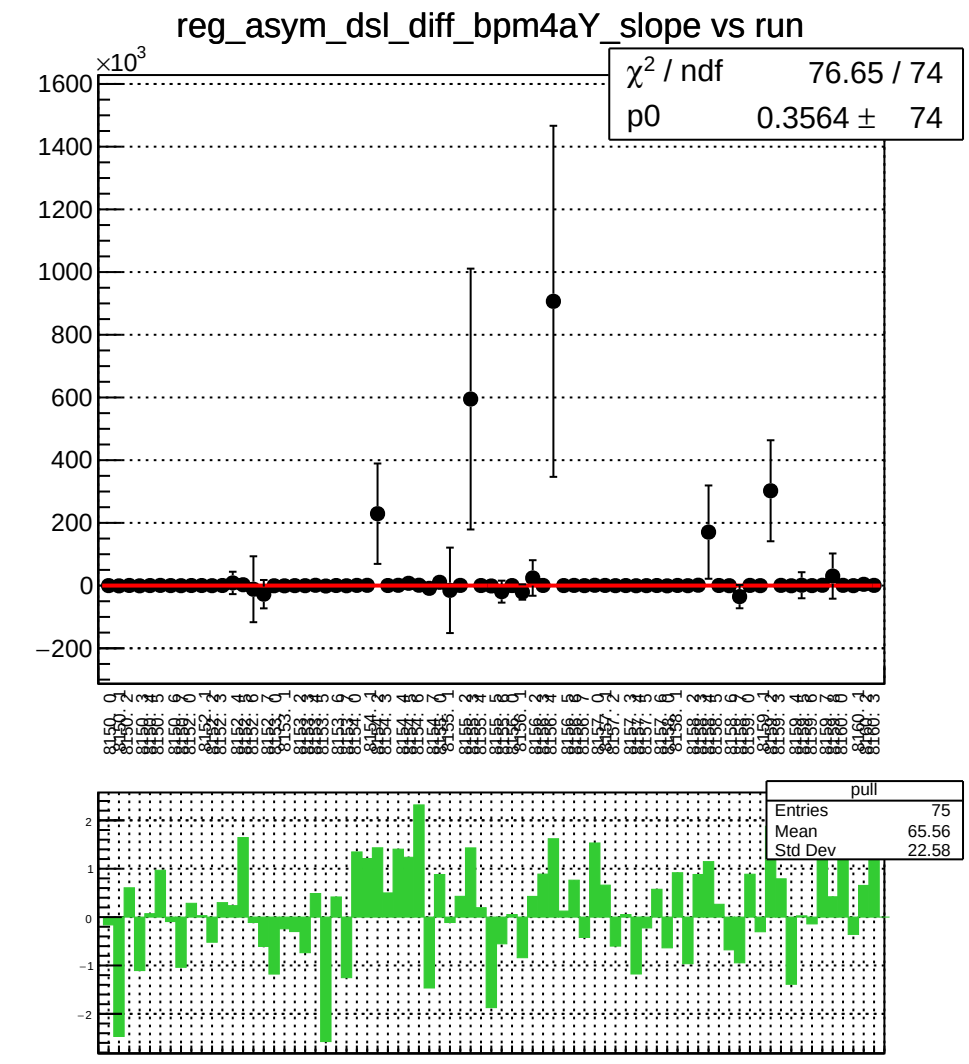

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 10.65 / 74
p0 −30.25 ± 4.961
pull
Entries 75
Mean 1017
Std Dev 981.5

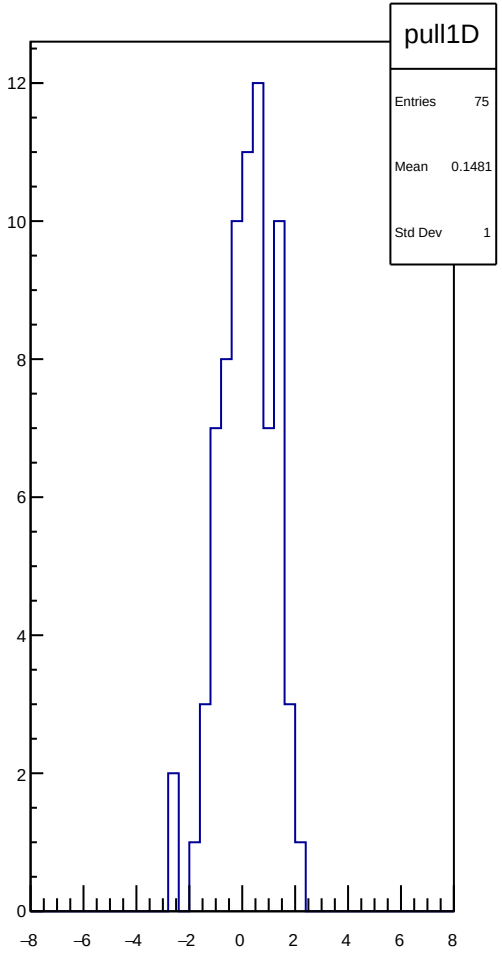

pull1D
Entries 75
Mean −0.001309
Std Dev 0.3768

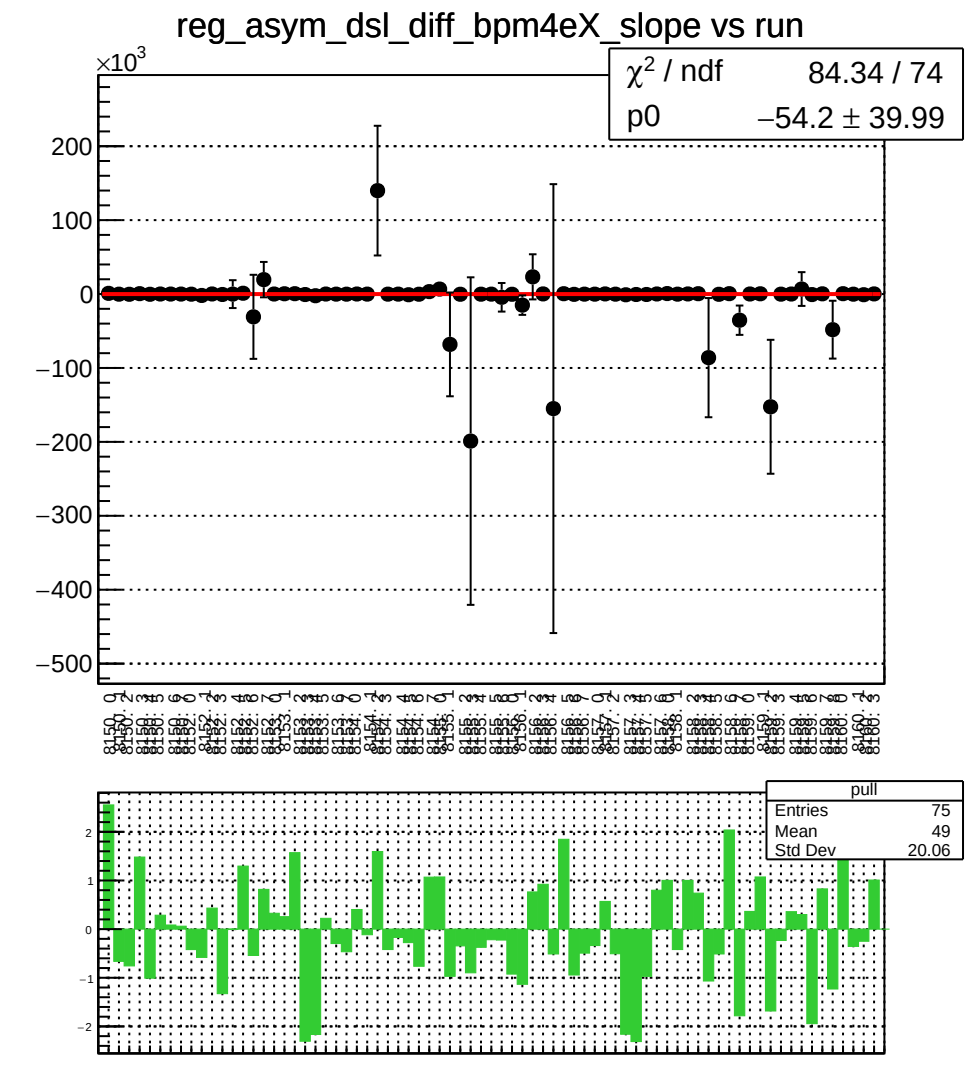

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 27.01 / 74
p0 −43.14 ± 0.2326
pull
Entries 75
Mean −286.8
Std Dev 326.2
pull1D
Entries 75
Mean −0.008162
Std Dev 0.6001

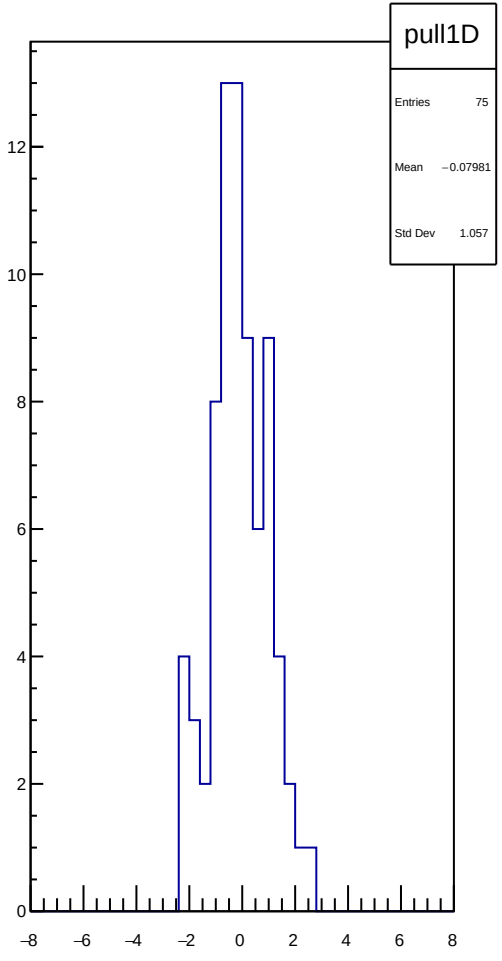

reg_asym_dsl_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 88.09 / 74
p0 64.17 ± 39.48
pull
Entries 75
Mean 49.84
Std Dev 14.59

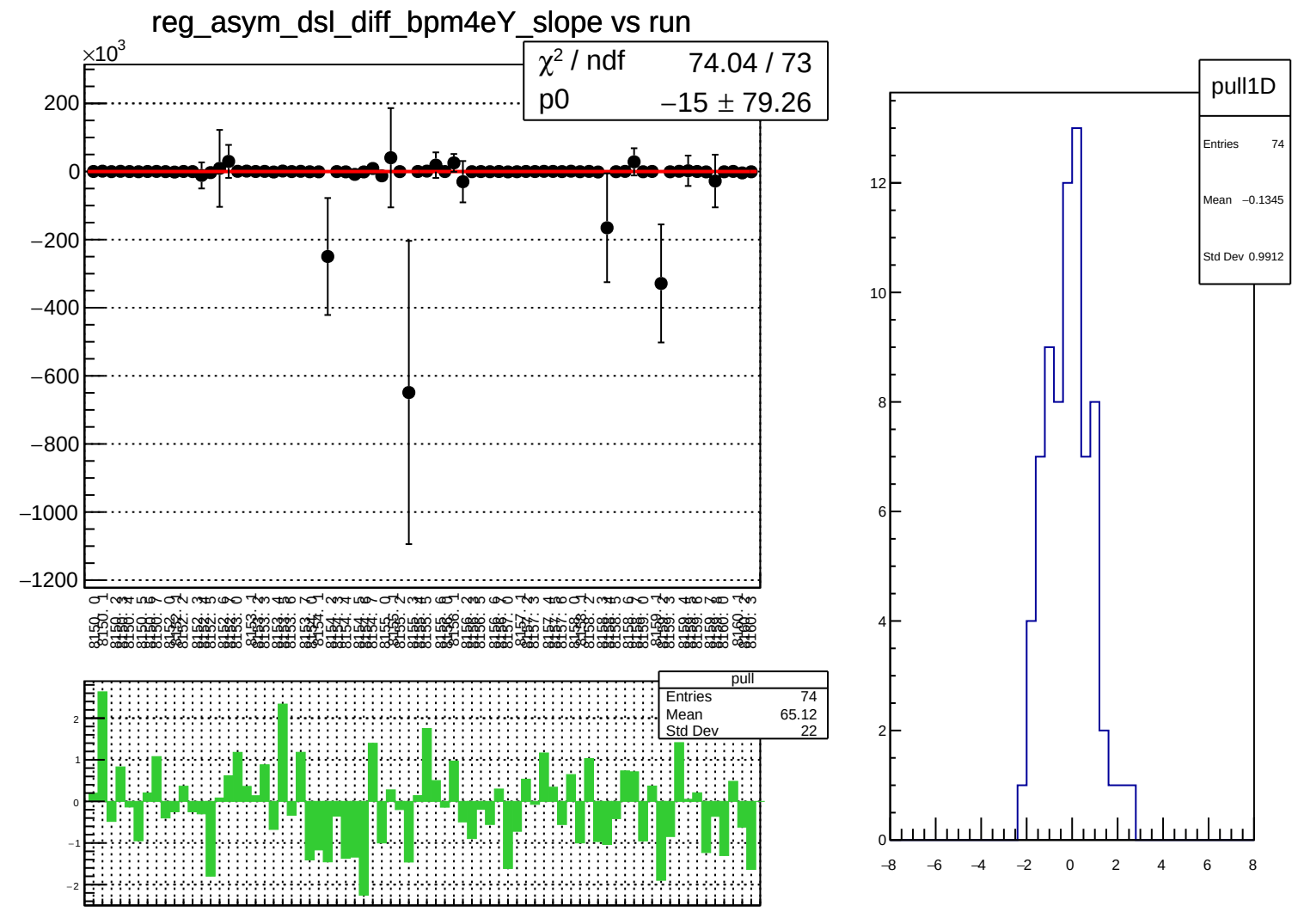

pull1D
Entries 75
Mean 0.1029
Std Dev 1.079

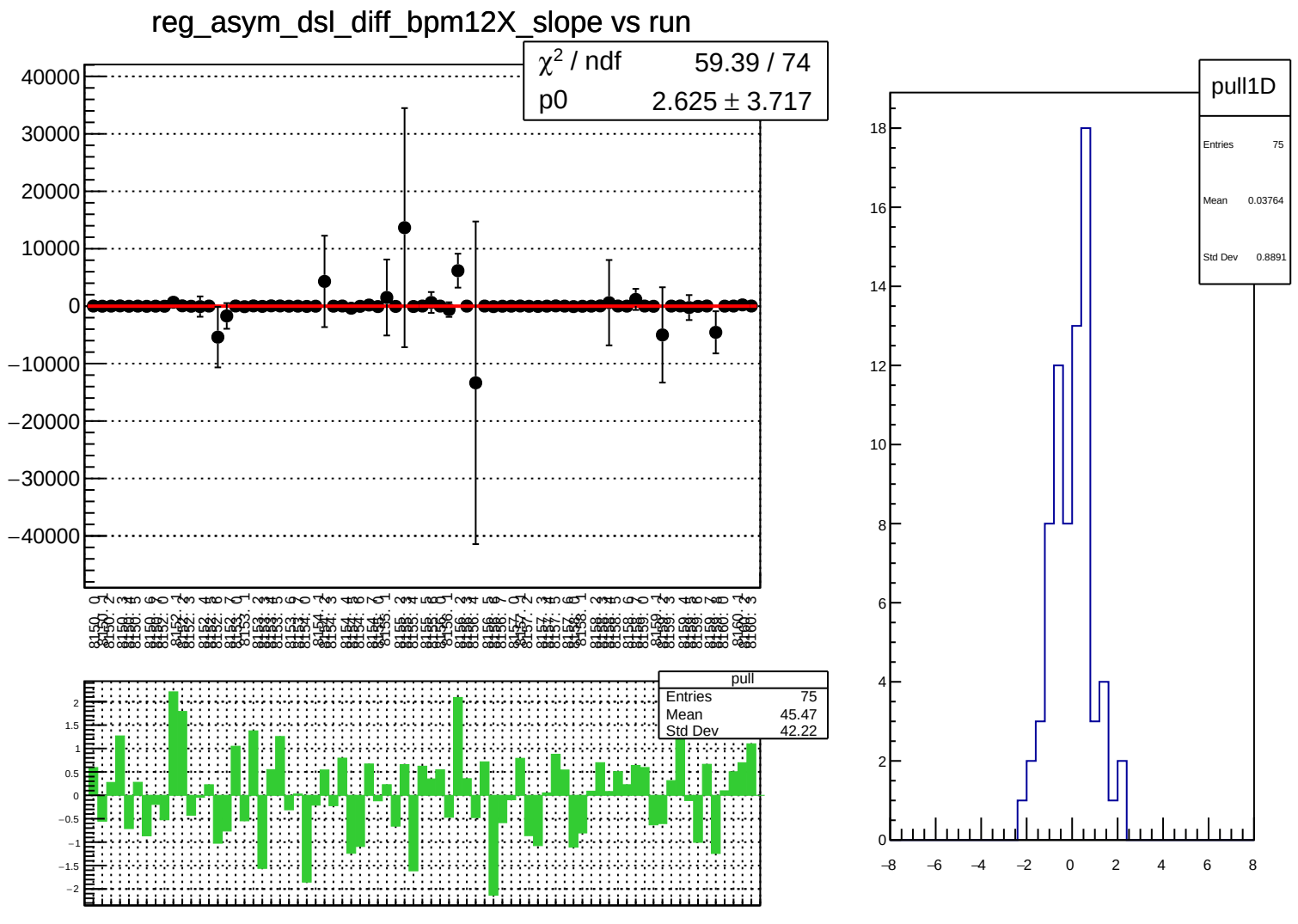

reg_asym_dsl_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 76.65 / 74
p0 0.3564 ± 74
pull
Entries 75
Mean 65.56
Std Dev 22.58

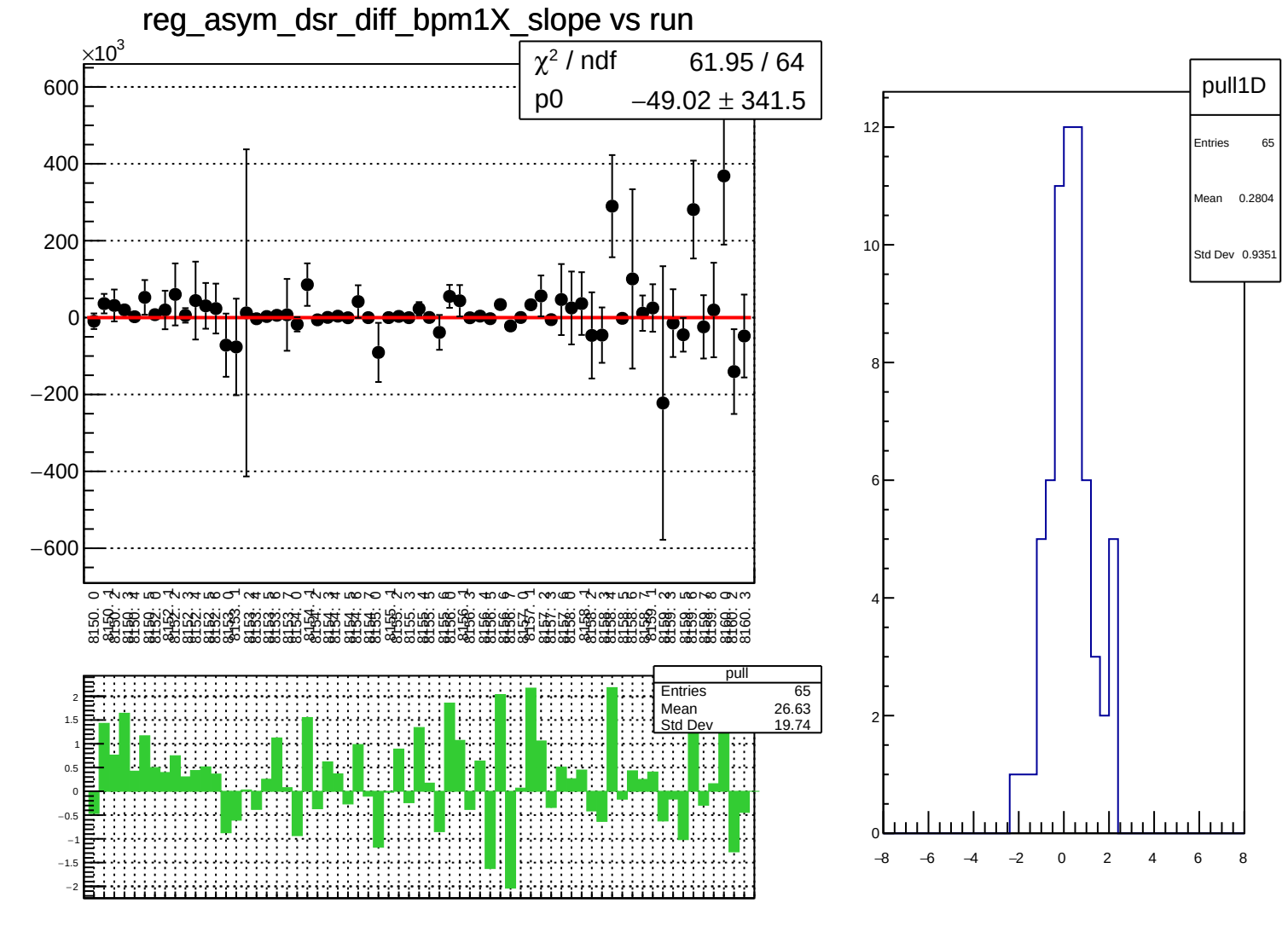

pull1D
Entries 75
Mean 0.1481
Std Dev 1

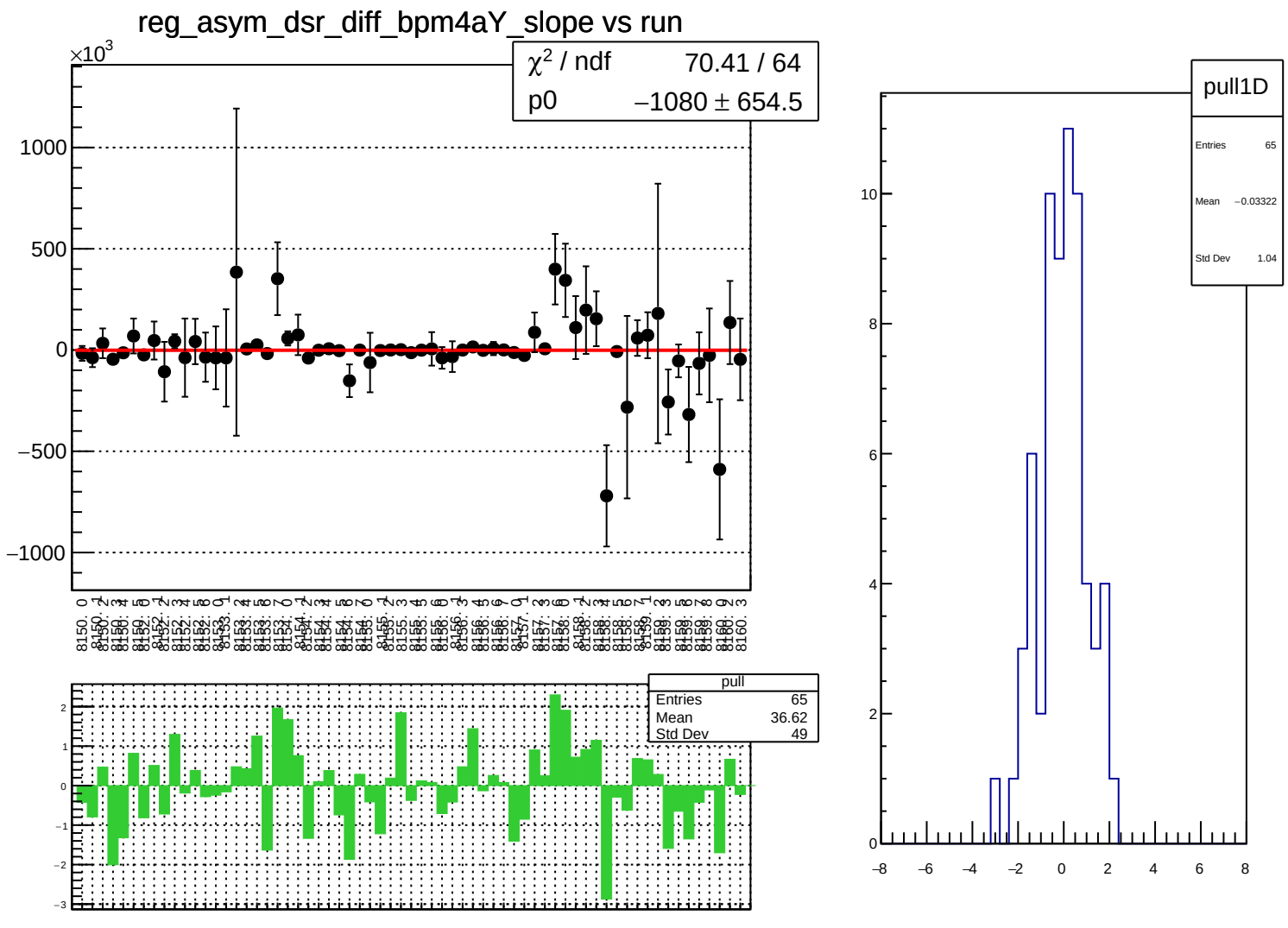

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 84.34 / 74
p0 −54.2 ± 39.99
×10³
pull
Entries 75
Mean 49
Std Dev 20.06

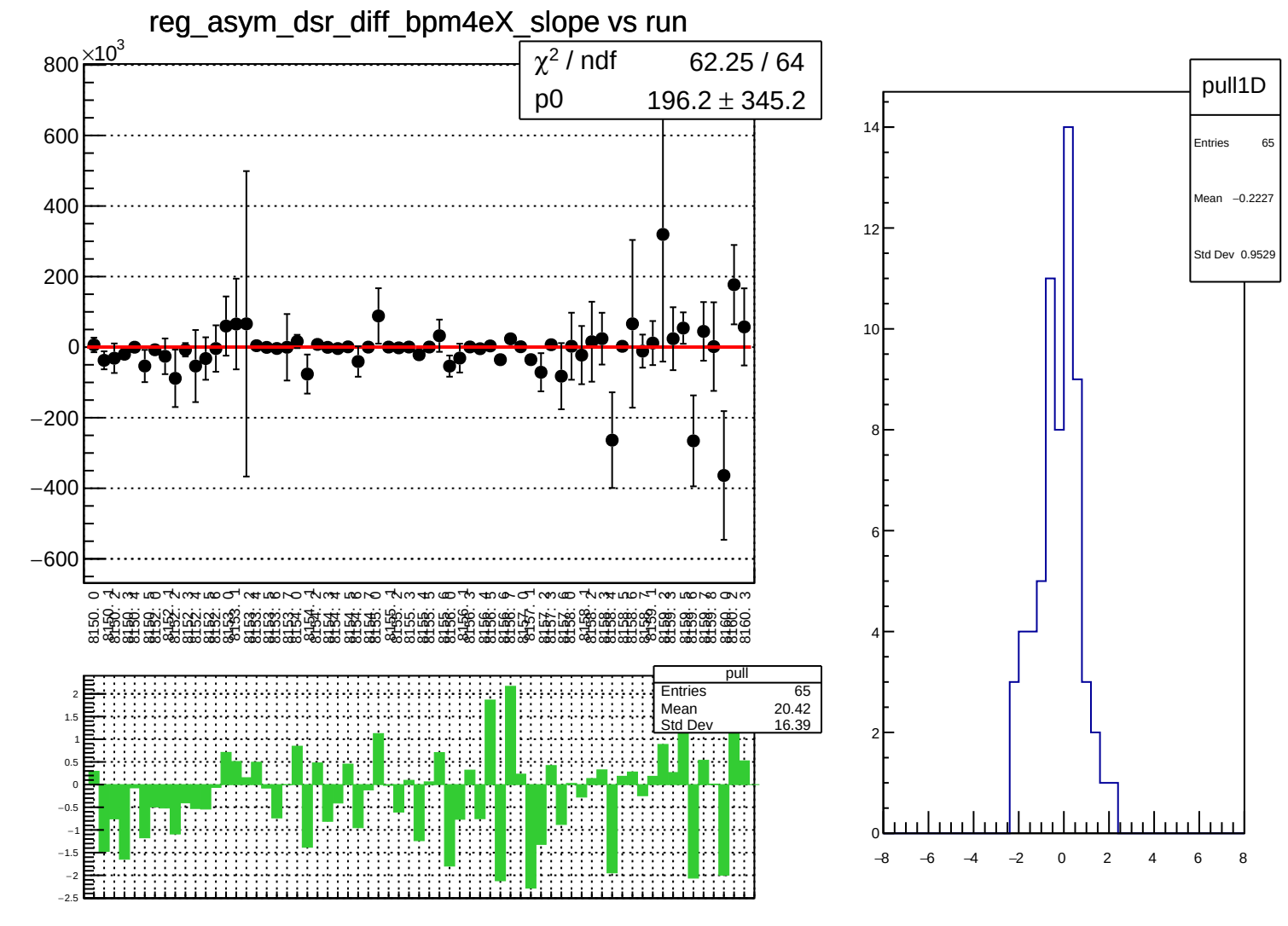

pull1D
Entries 75
Mean −0.07981
Std Dev 1.057

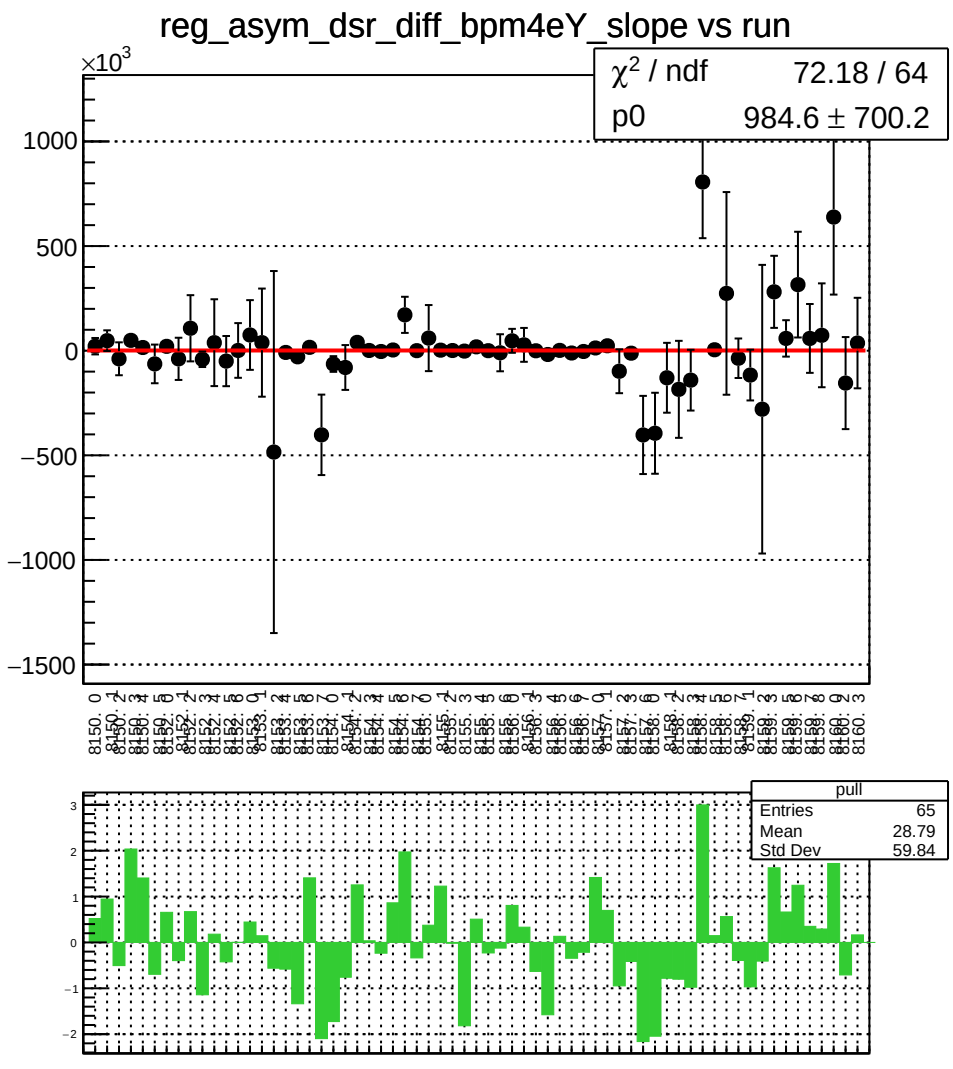

reg_asym_dsl_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 74.04 / 73
p0 −15 ± 79.26
pull
Entries 74
Mean 65.12
Std Dev 22
pull1D
Entries 74
Mean −0.1345
Std Dev 0.9912

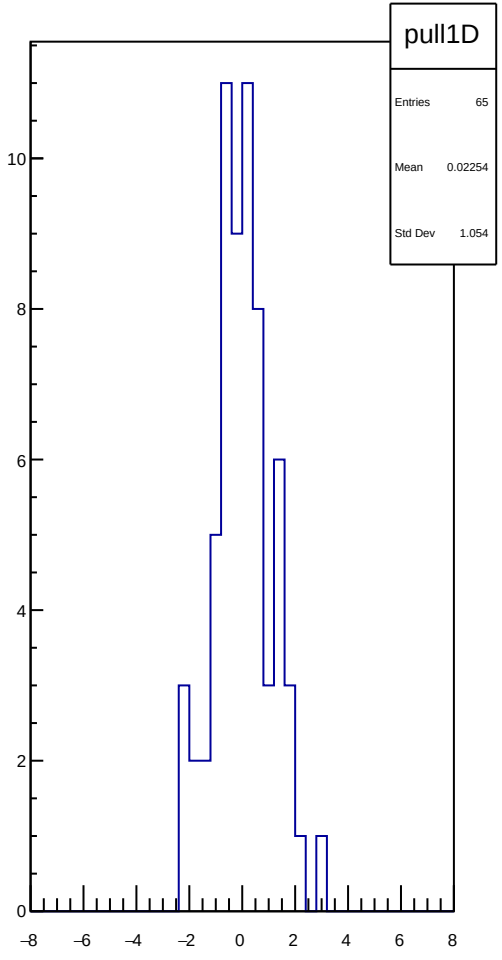

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 59.39 / 74
p0 2.625 ± 3.717
pull
Entries 75
Mean 45.47
Std Dev 42.22
pull1D
Entries 75
Mean 0.03764
Std Dev 0.8891

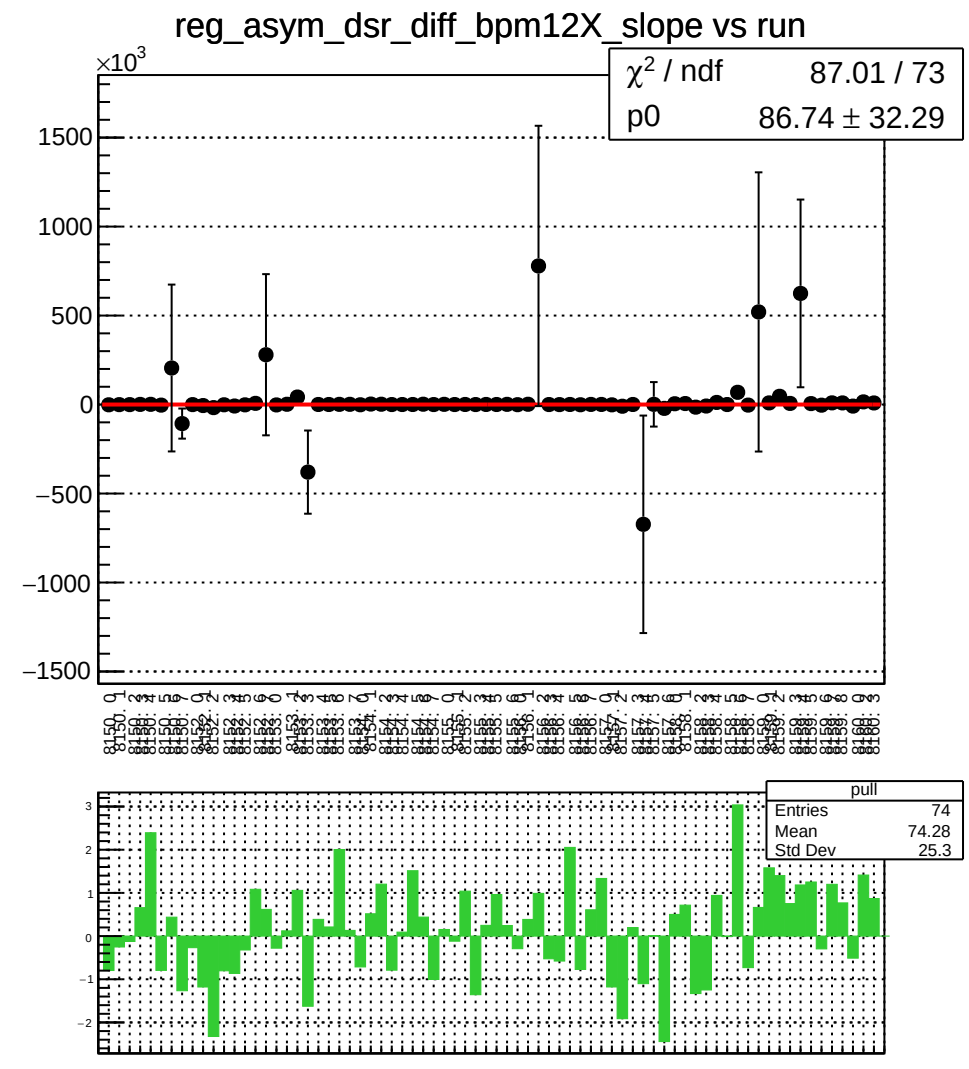

reg_asym_dsr_diff_bpm1X_slope vs run
×10^3
χ² / ndf 61.95 / 64
p0 −49.02 ± 341.5
600
400
200
0
−200
−400
−600
pull
Entries 65
Mean 26.63
Std Dev 19.74
pull1D
Entries 65
Mean 0.2804
Std Dev 0.9351

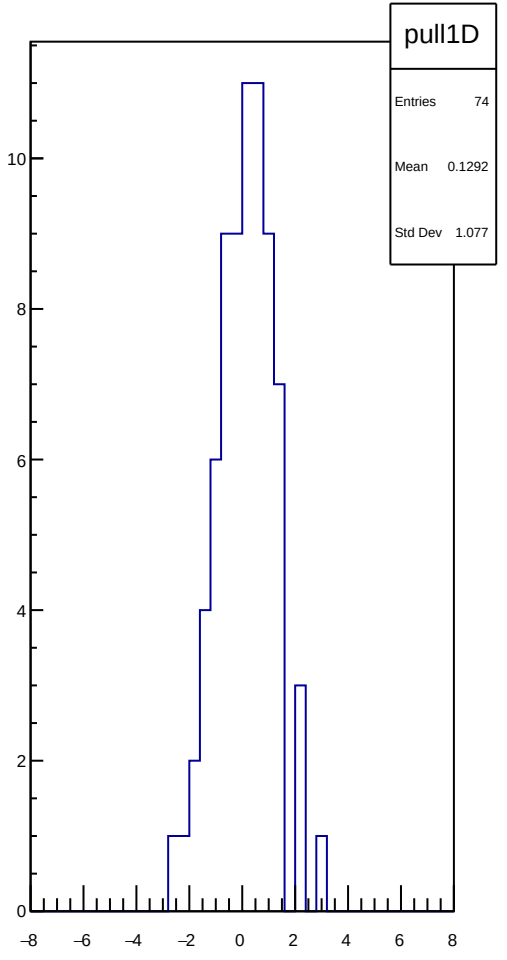

reg_asym_dsr_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 70.41 / 64
p0 −1080 ± 654.5
1000
500
0
−500
−1000
pull
Entries 65
Mean 36.62
Std Dev 49
pull1D
Entries 65
Mean −0.03322
Std Dev 1.04

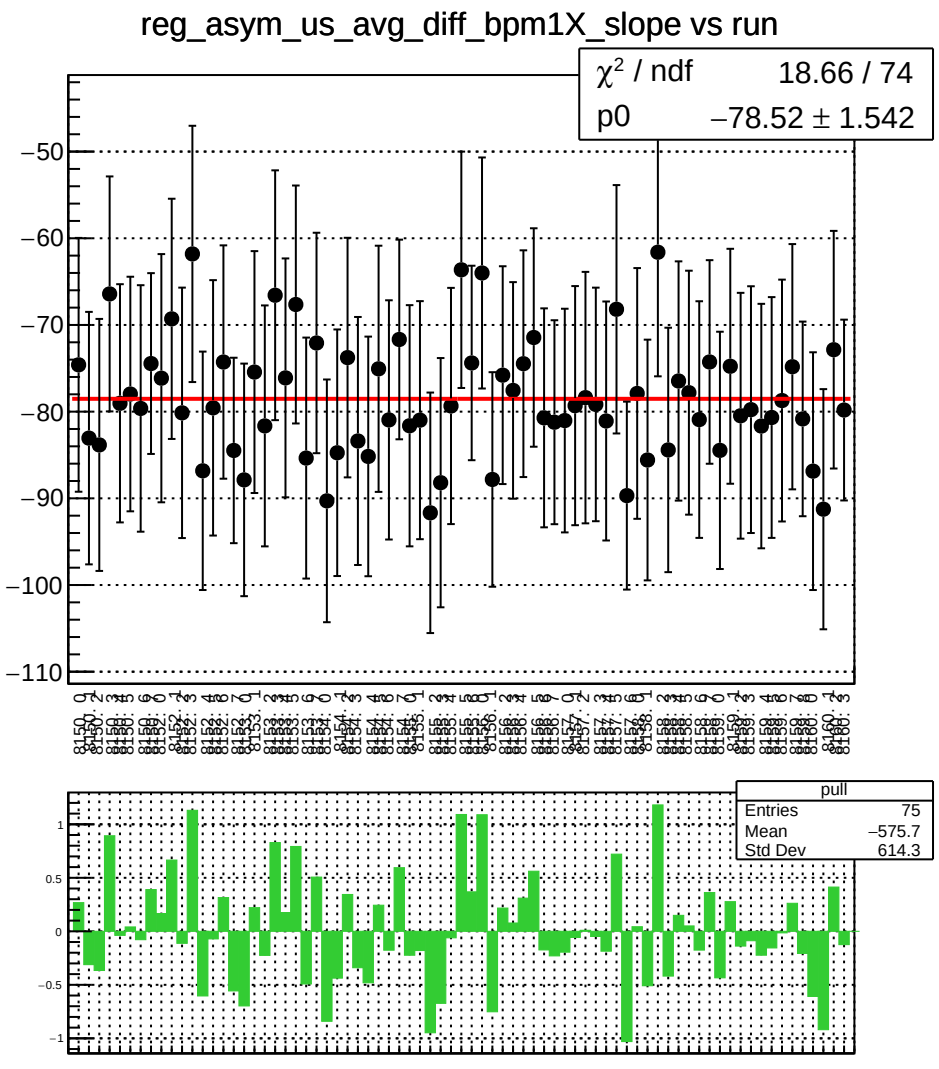

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 62.25 / 64
p0 196.2 ± 345.2
pull
Entries 65
Mean 20.42
Std Dev 16.39
pull1D
Entries 65
Mean −0.2227
Std Dev 0.9529

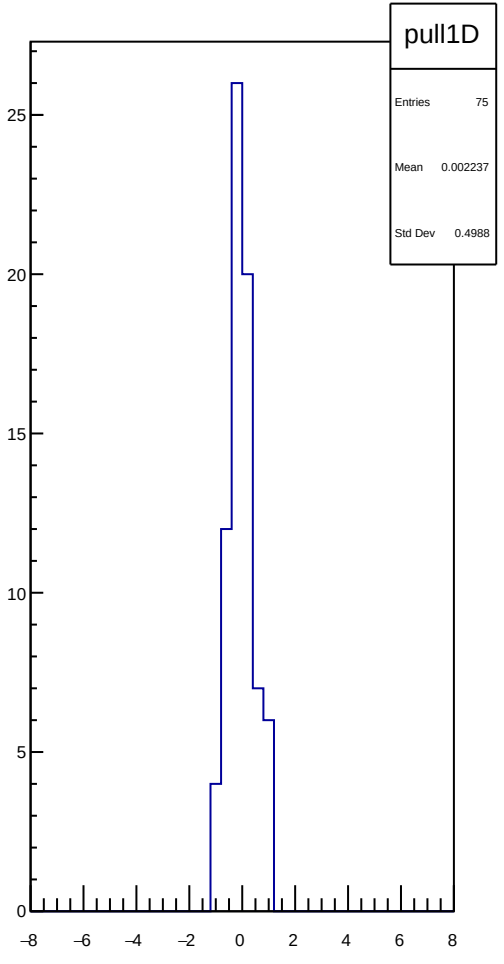

reg_asym_dsr_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 72.18 / 64
p0 984.6 ± 700.2
1000
500
0
−500
−1000
−1500
pull
Entries 65
Mean 28.79
Std Dev 59.84
3
2
1
0
−1
−2

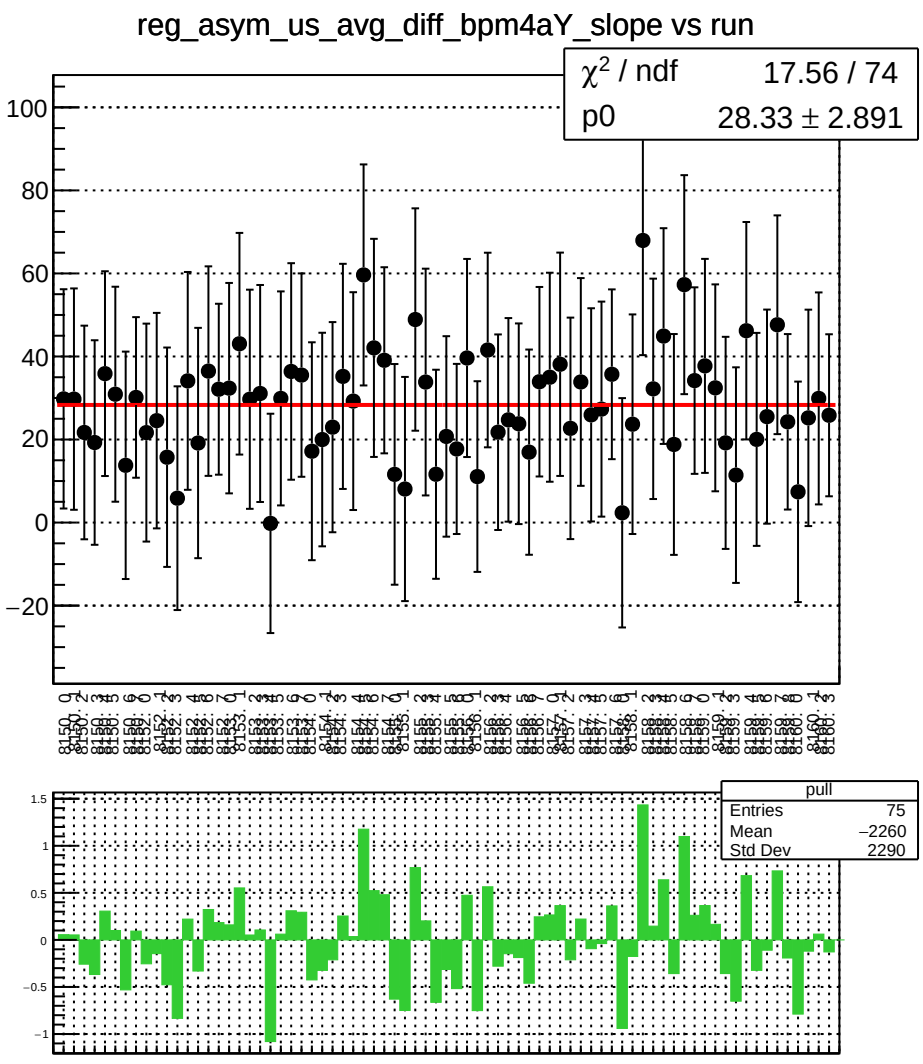

pull1D
Entries 65
Mean 0.02254
Std Dev 1.054
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

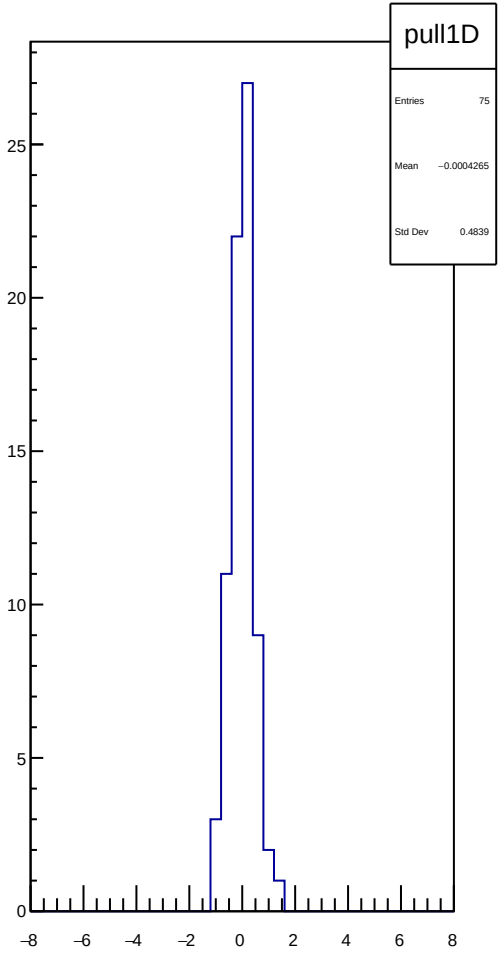

reg_asym_dsr_diff_bpm12X_slope vs run
×10^3
χ^2 / ndf 87.01 / 73
p0 86.74 ± 32.29
1500
1000
500
0
−500
−1000
−1500
pull
Entries 74
Mean 74.28
Std Dev 25.3
3
2
1
0
−1
−2

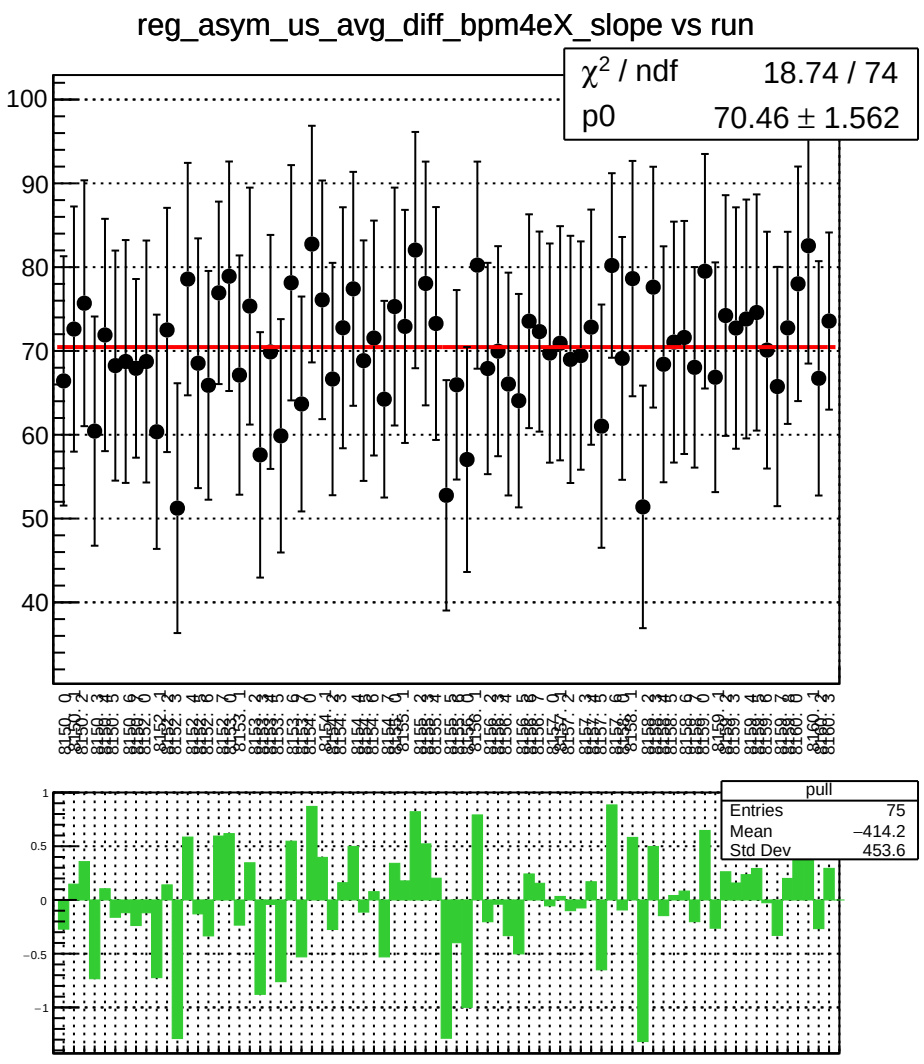

pull1D
Entries 74
Mean 0.1292
Std Dev 1.077
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

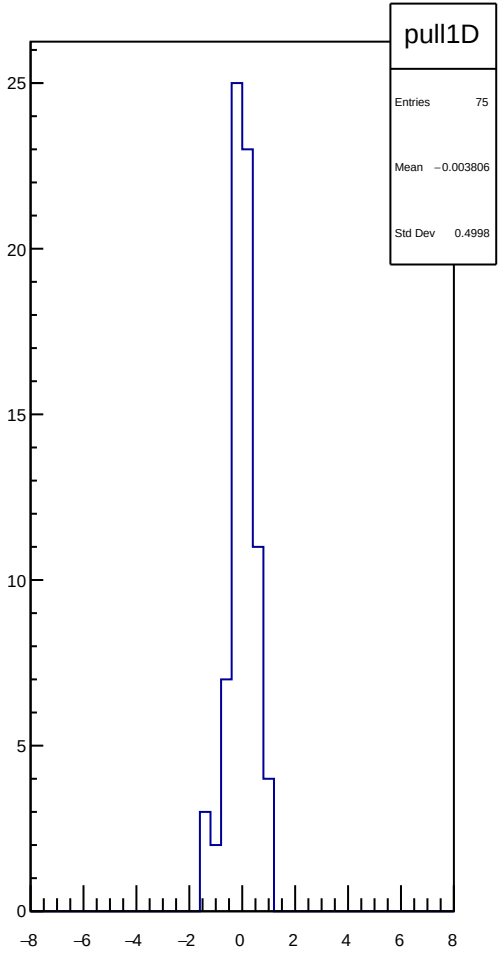

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 18.66 / 74
p0 −78.52 ± 1.542
pull
Entries 75
Mean −575.7
Std Dev 614.3

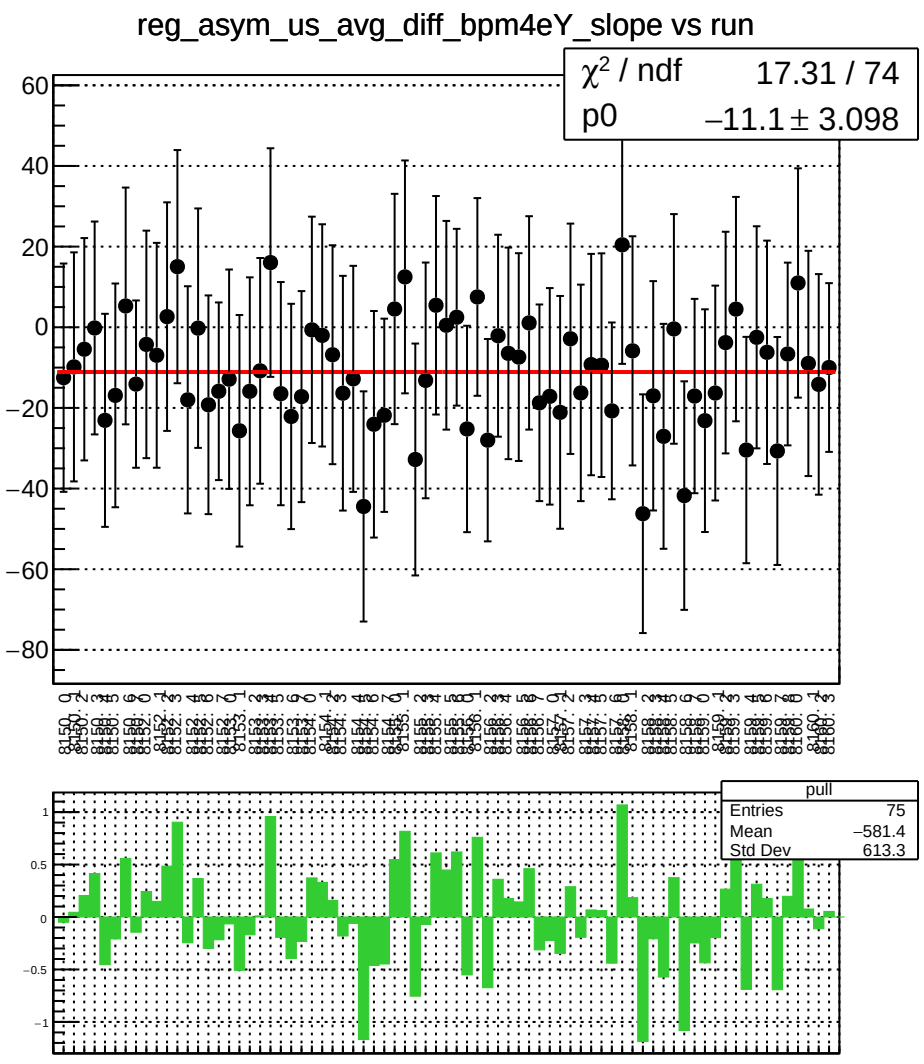

pull1D
Entries 75
Mean 0.002237
Std Dev 0.4988

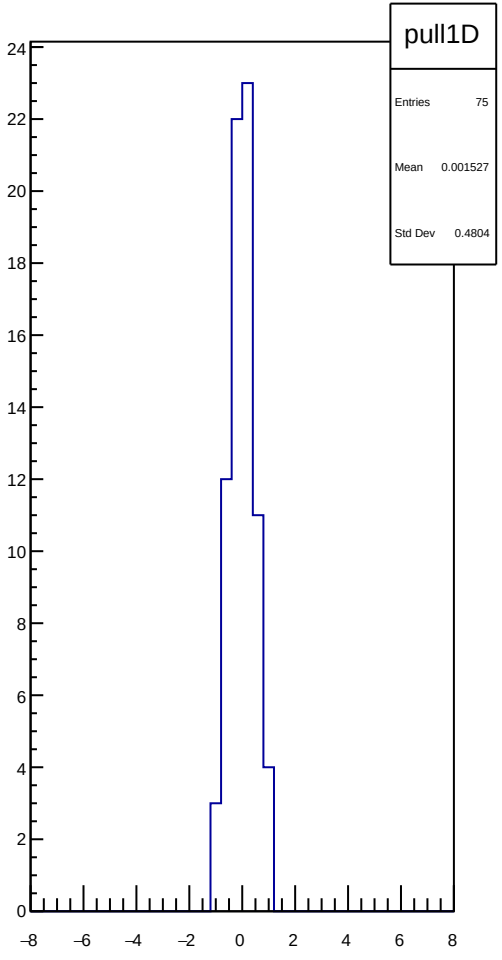

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.56 / 74
p0 28.33 ± 2.891
pull
Entries 75
Mean −2260
Std Dev 2290

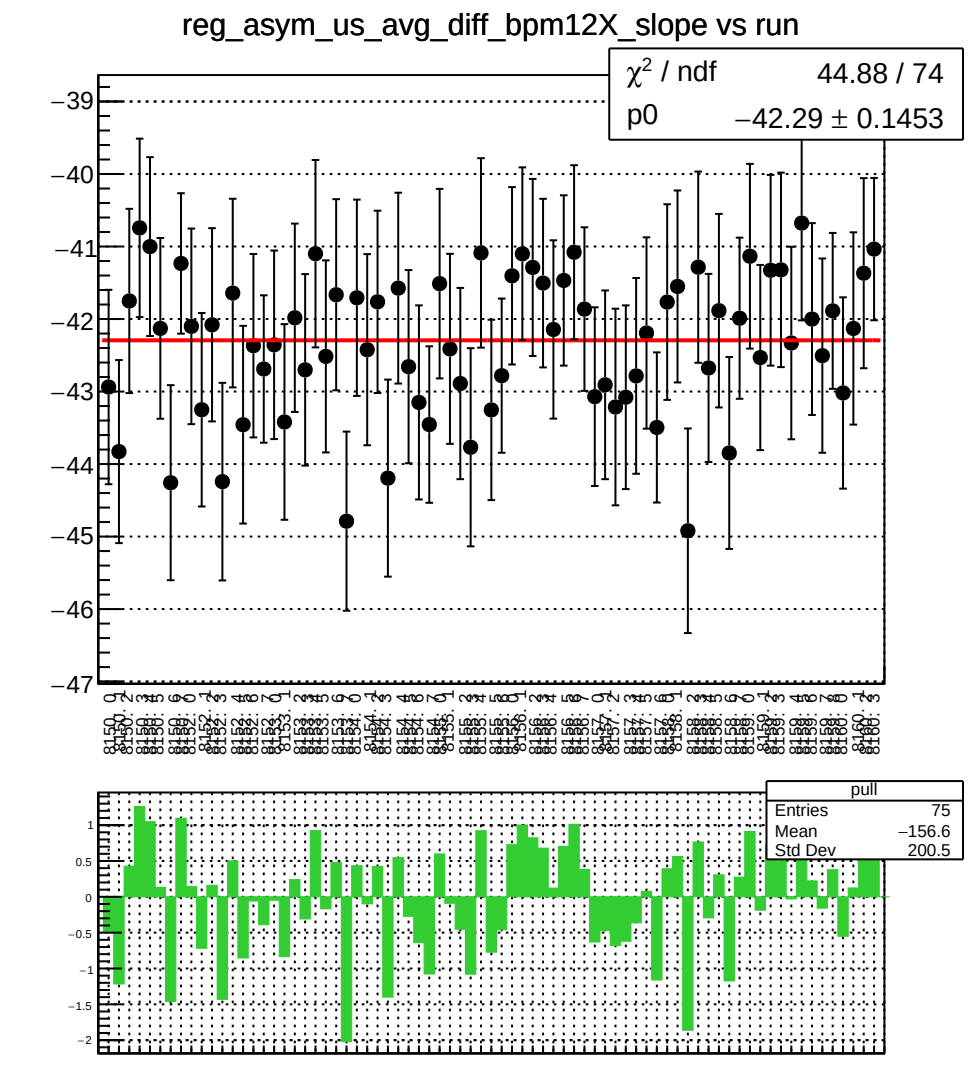

pull1D
Entries 75
Mean −0.0004265
Std Dev 0.4839

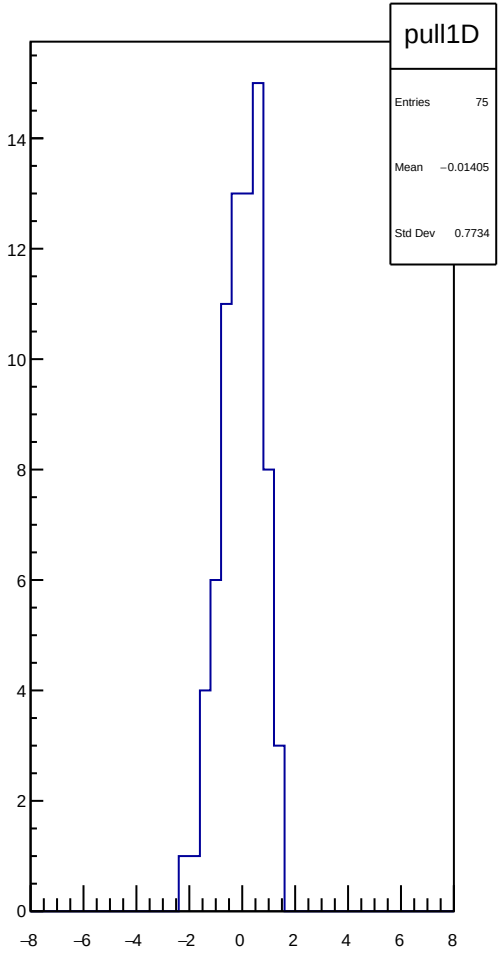

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.74 / 74
p0 70.46 ± 1.562
pull
Entries 75
Mean −414.2
Std Dev 453.6

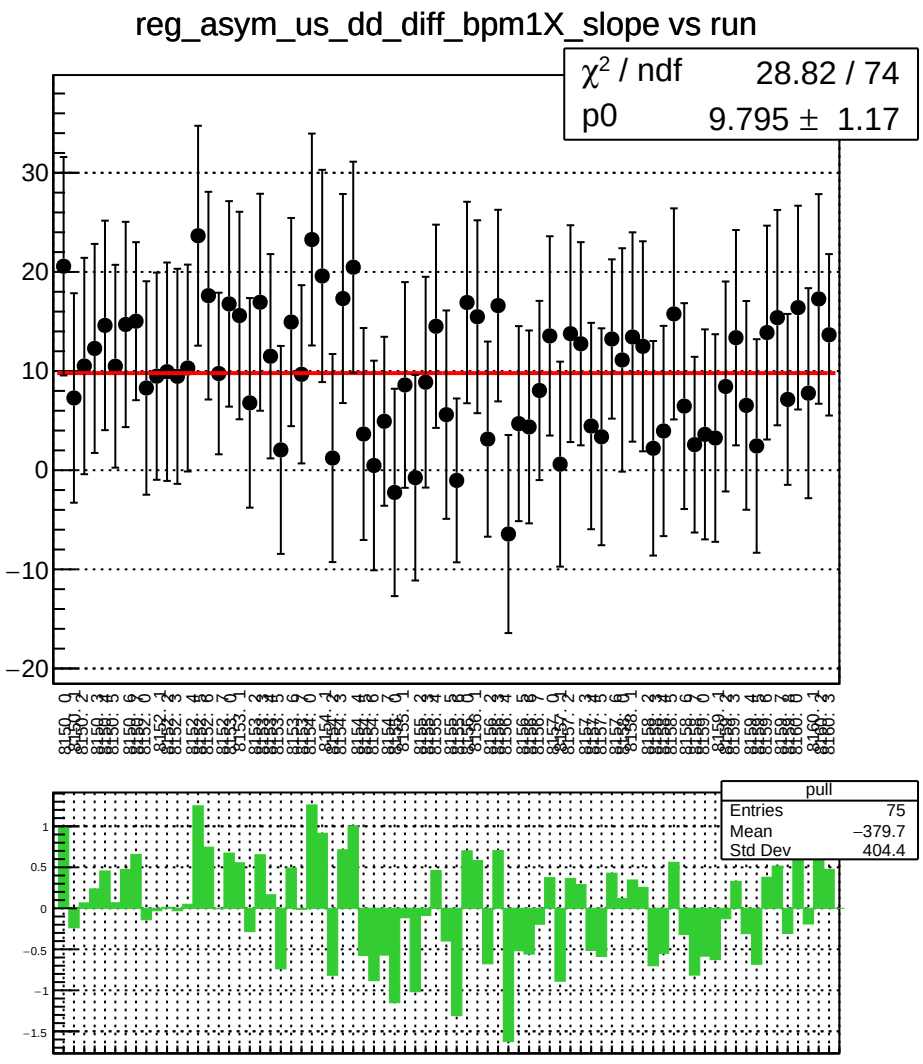

pull1D
Entries 75
Mean −0.003806
Std Dev 0.4998

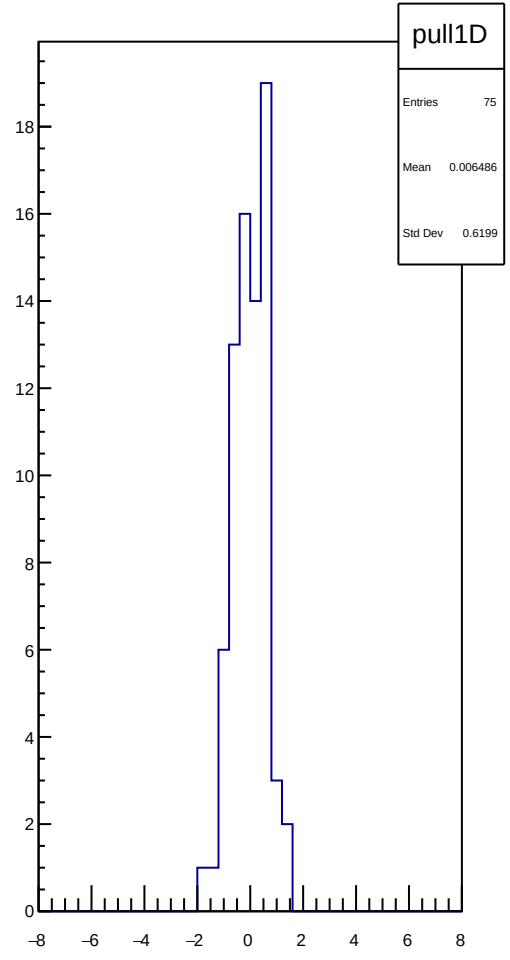

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.31 / 74
p0 −11.1 ± 3.098
pull
Entries 75
Mean −581.4
Std Dev 613.3

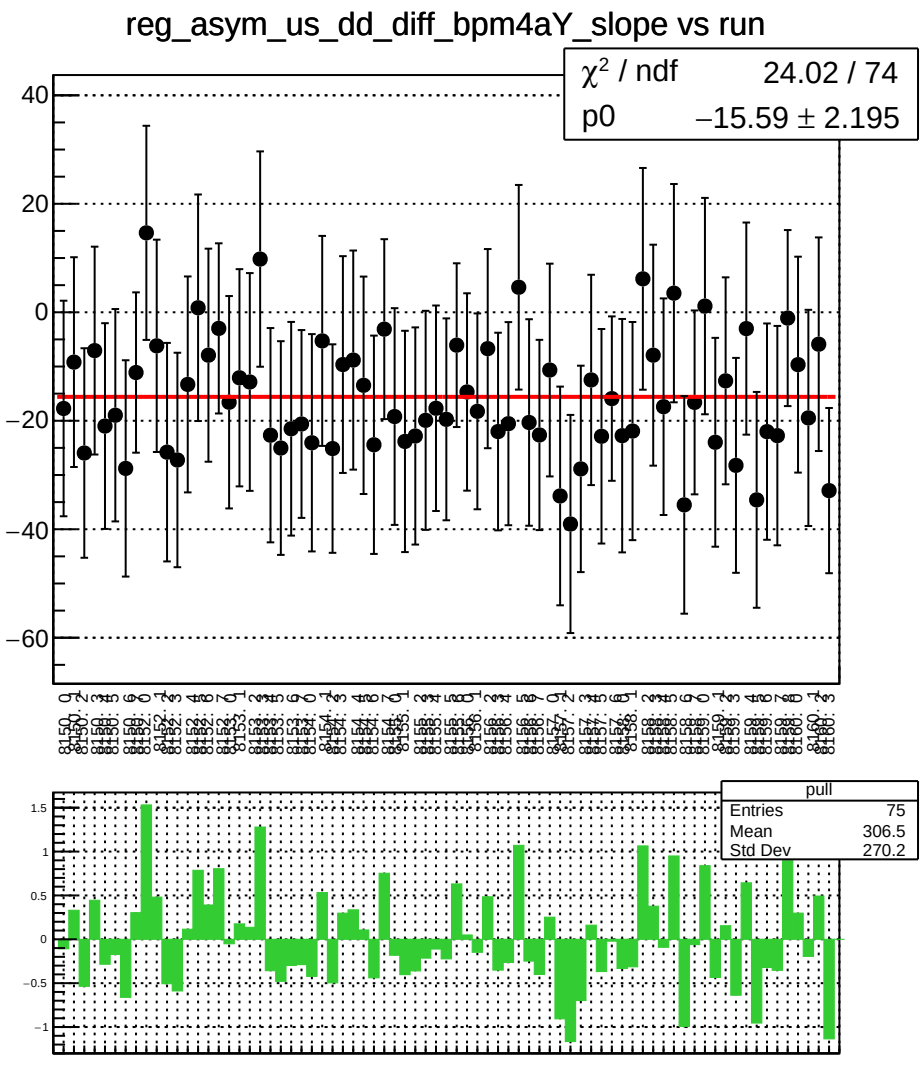

pull1D
Entries 75
Mean 0.001527
Std Dev 0.4804

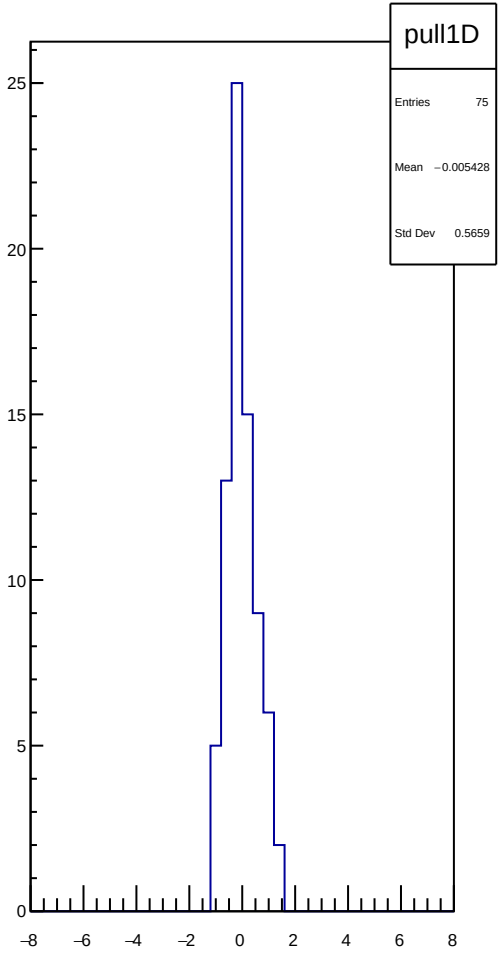

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 44.88 / 74
p0 −42.29 ± 0.1453
pull
Entries 75
Mean −156.6
Std Dev 200.5

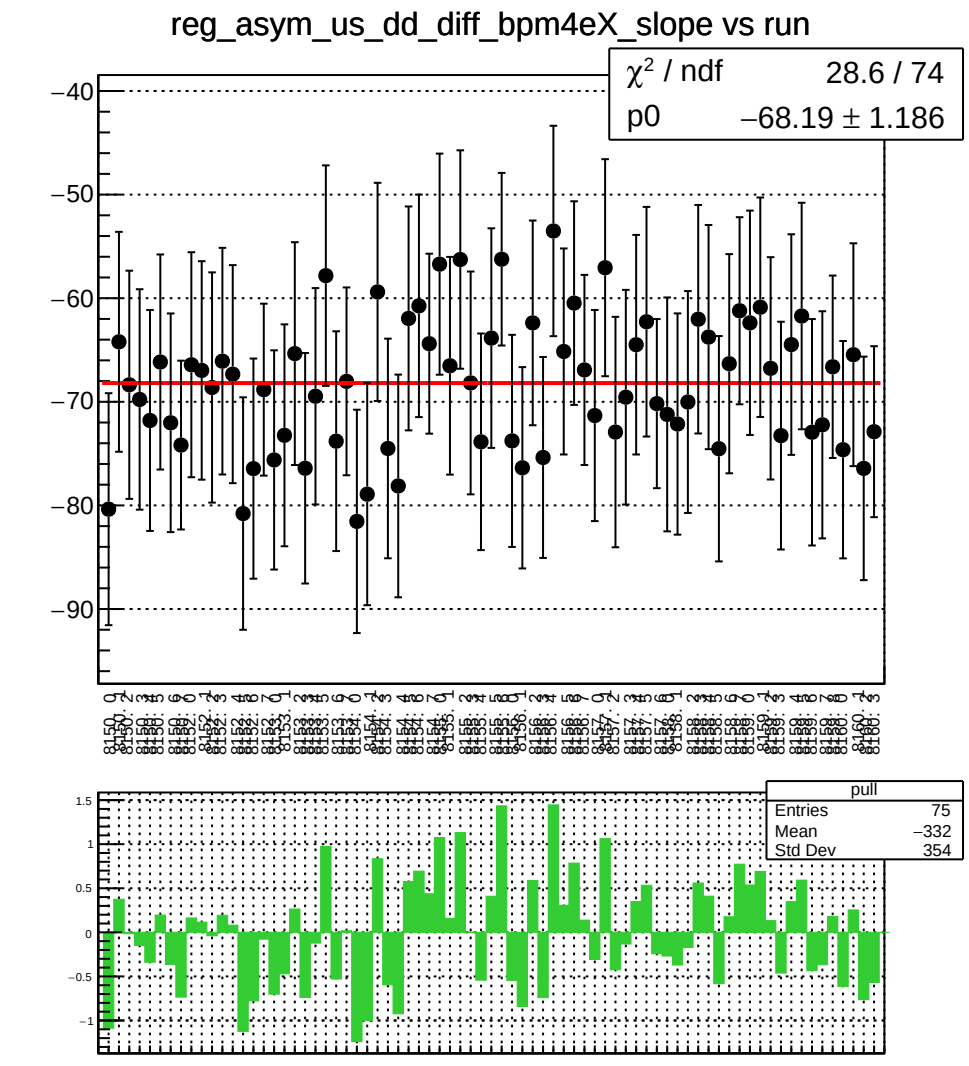

pull1D
Entries 75
Mean −0.01405
Std Dev 0.7734

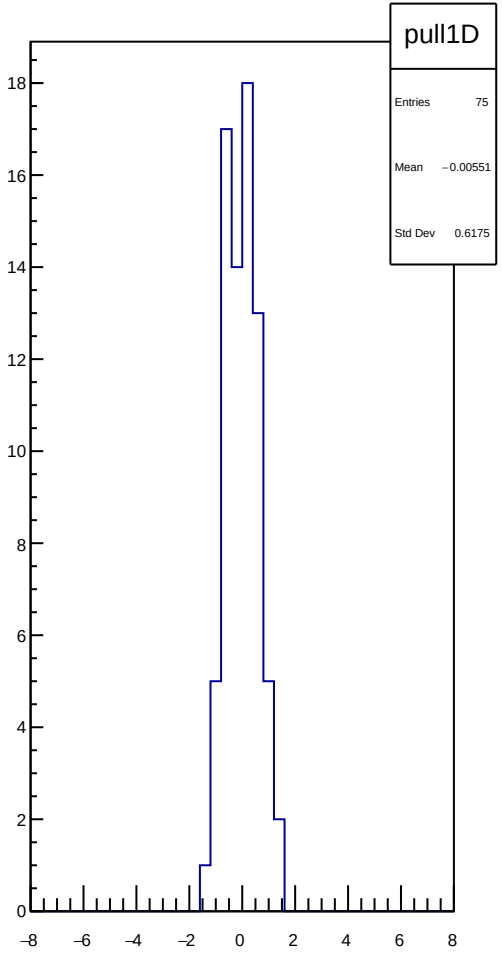

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 28.82 / 74
p0 9.795 ± 1.17
pull
Entries 75
Mean −379.7
Std Dev 404.4

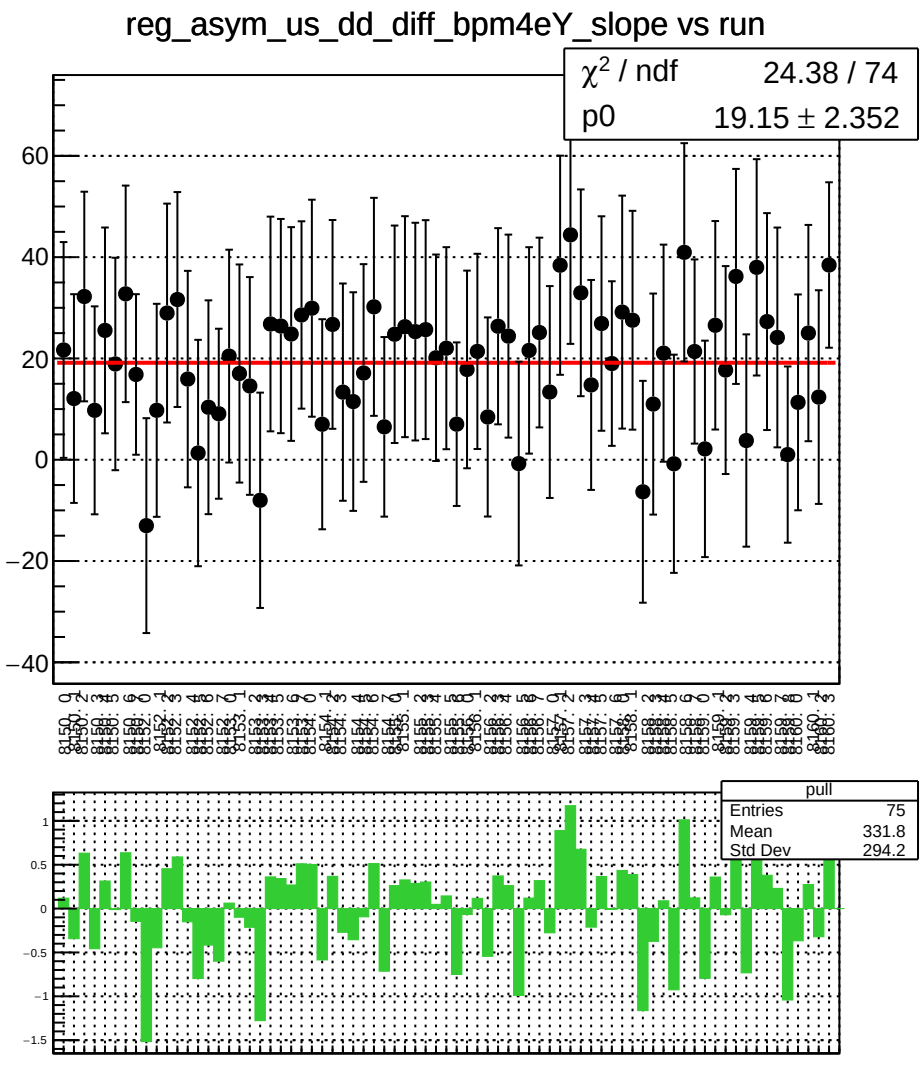

pull1D
Entries 75
Mean 0.006486
Std Dev 0.6199

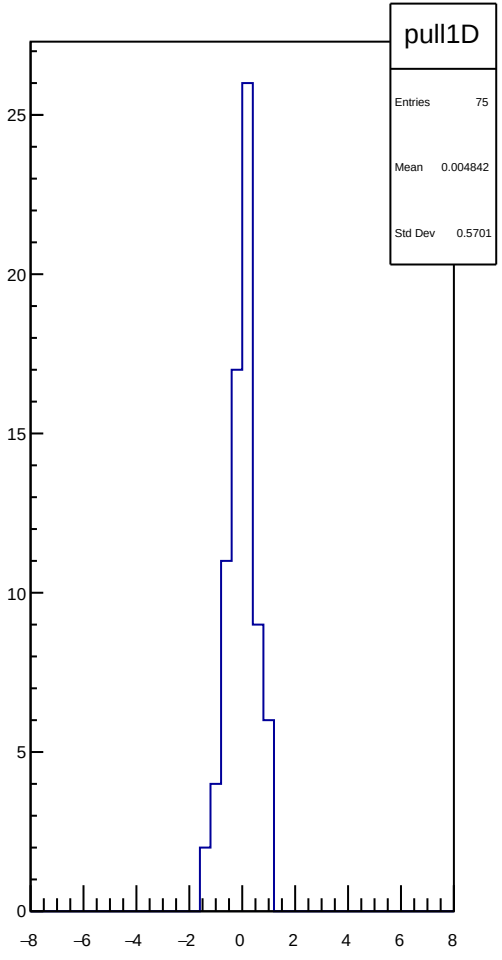

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.02 / 74
p0 −15.59 ± 2.195
pull
Entries 75
Mean 306.5
Std Dev 270.2

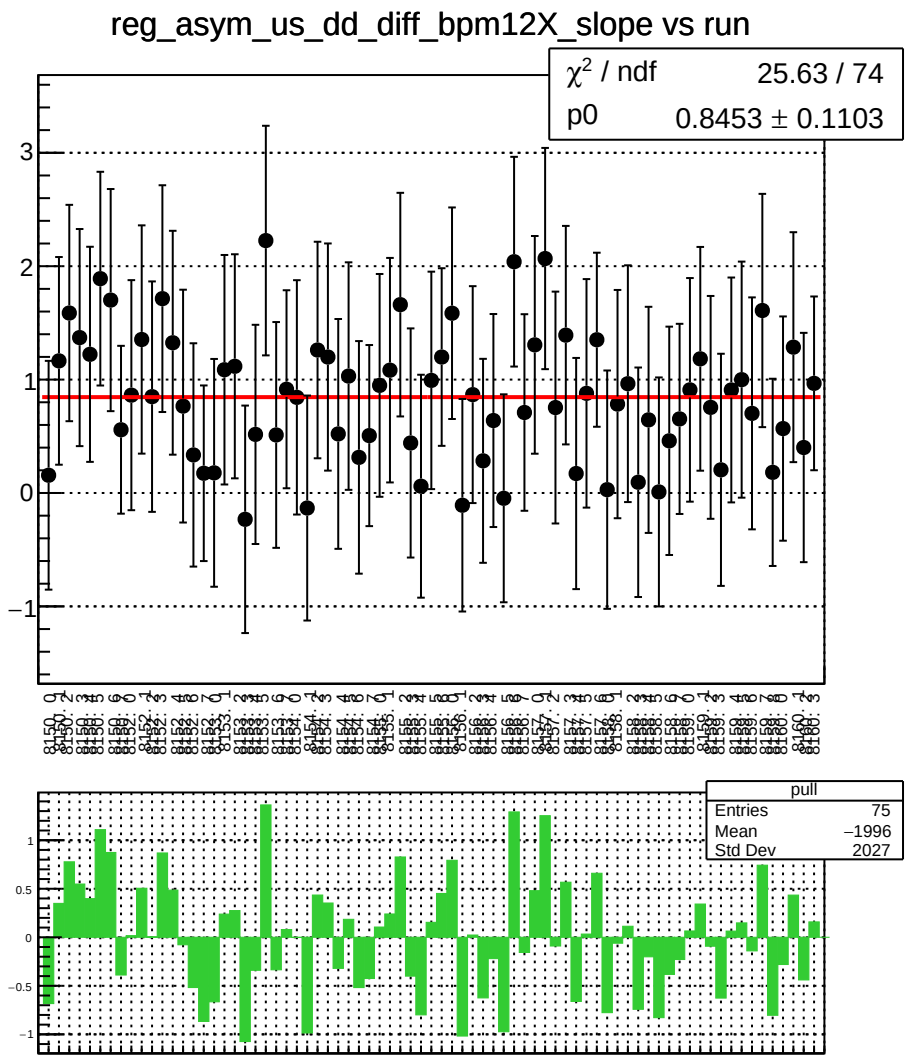

pull1D
Entries 75
Mean −0.005428
Std Dev 0.5659

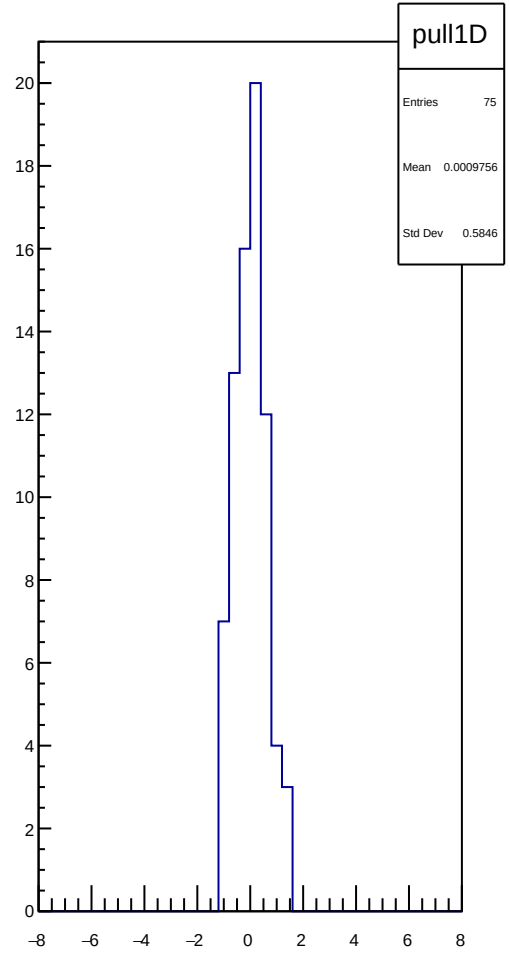

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.6 / 74
p0 −68.19 ± 1.186
pull
Entries 75
Mean −332
Std Dev 354

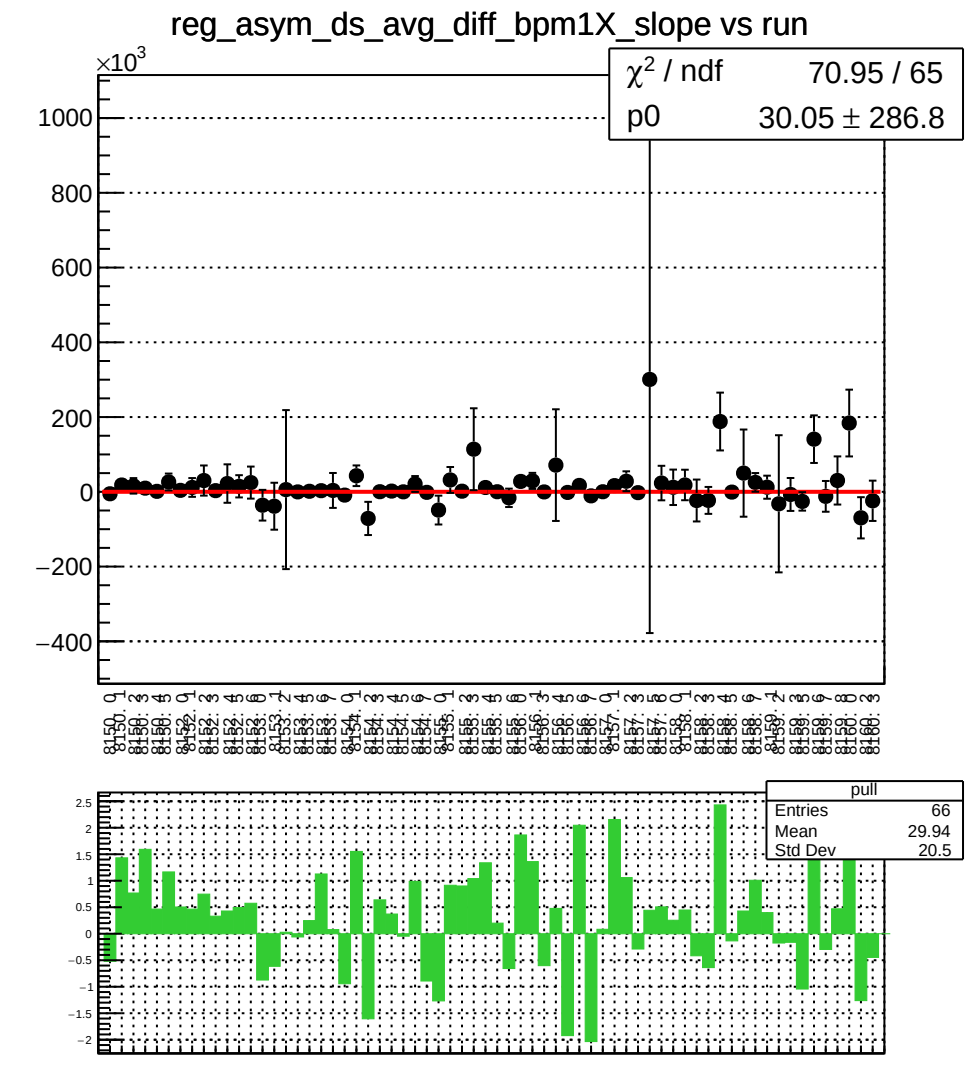

pull1D
Entries 75
Mean −0.00551
Std Dev 0.6175

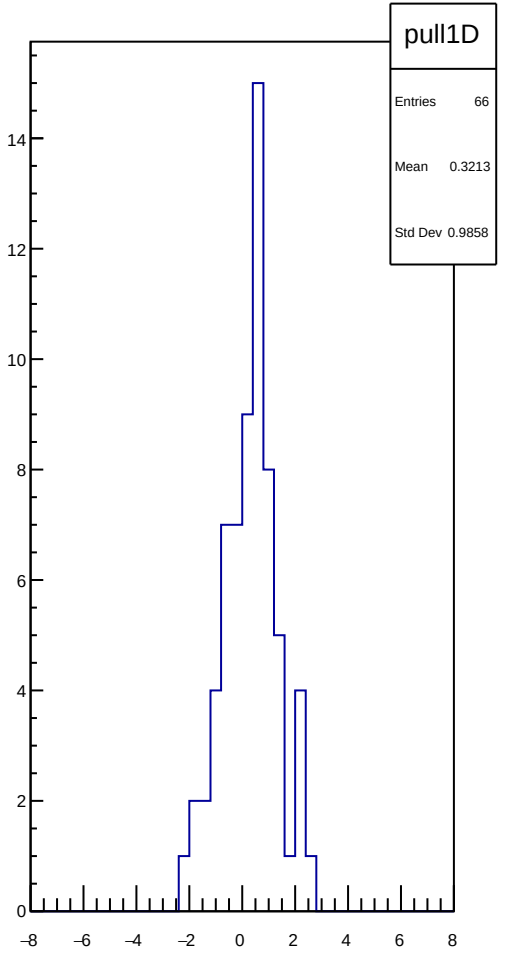

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.38 / 74
p0 19.15 ± 2.352
pull
Entries 75
Mean 331.8
Std Dev 294.2

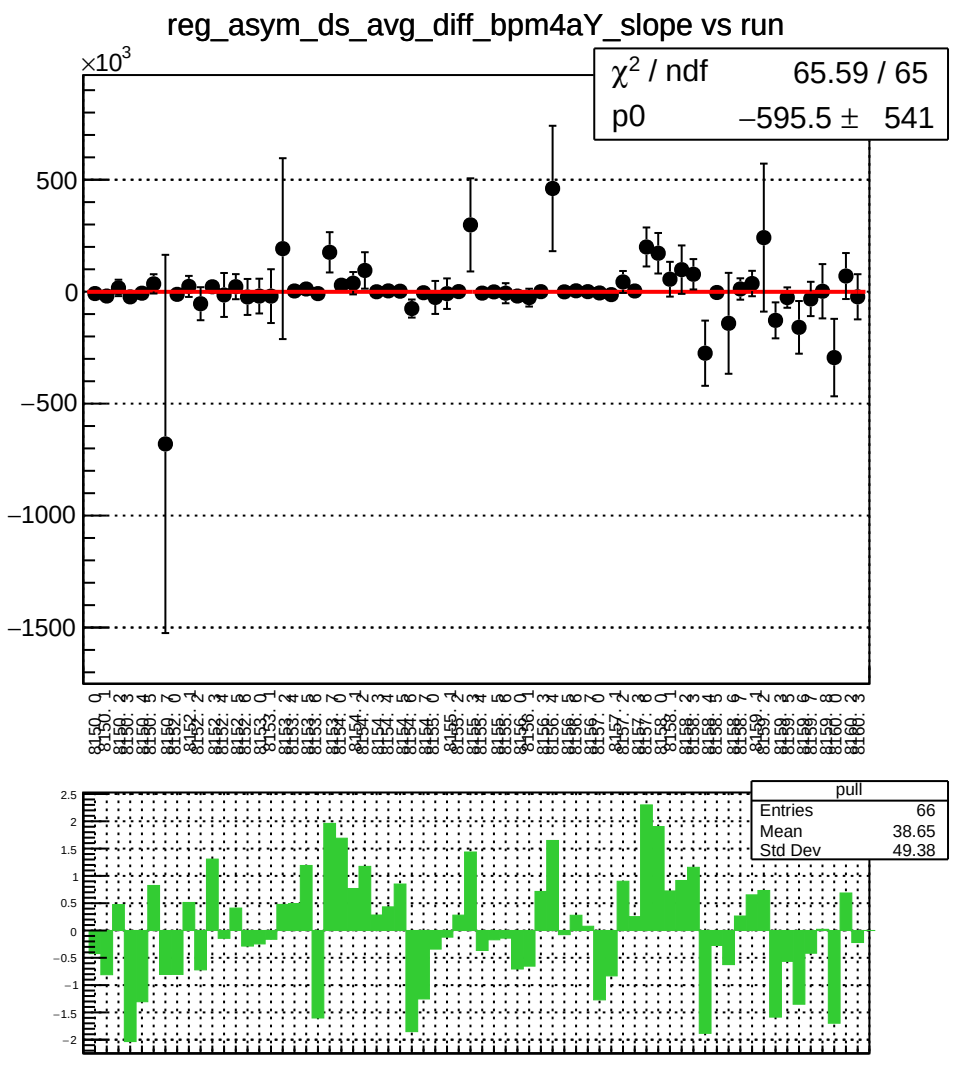

pull1D
Entries 75
Mean 0.004842
Std Dev 0.5701

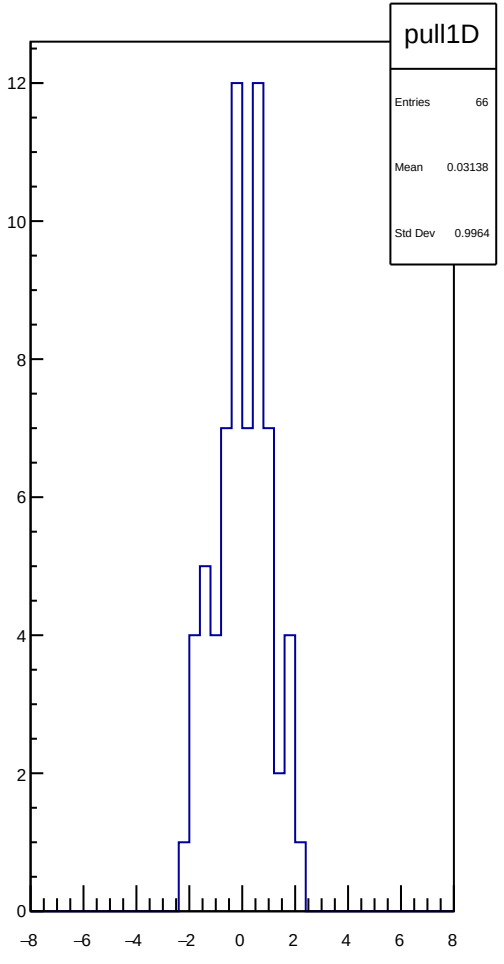

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 25.63 / 74
p0 0.8453 ± 0.1103
pull
Entries 75
Mean −1996
Std Dev 2027

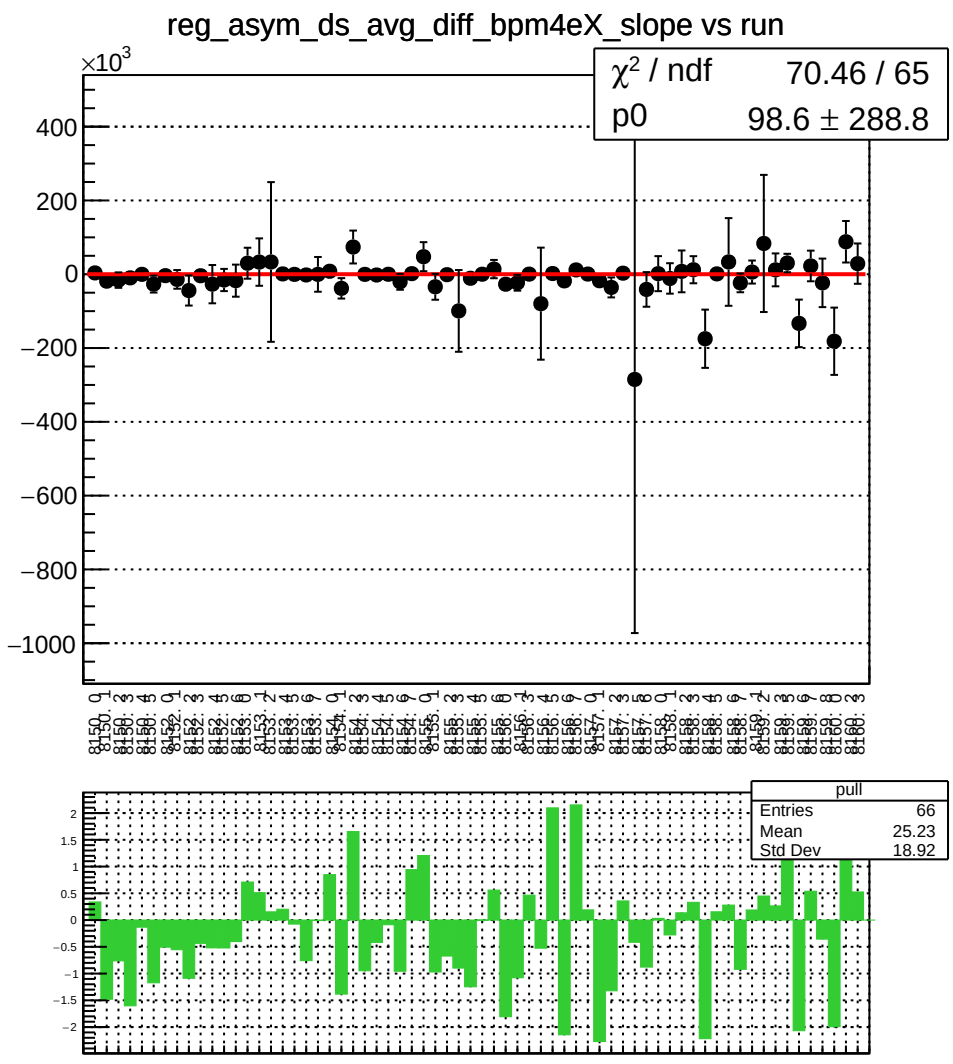

pull1D
Entries 75
Mean 0.0009756
Std Dev 0.5846

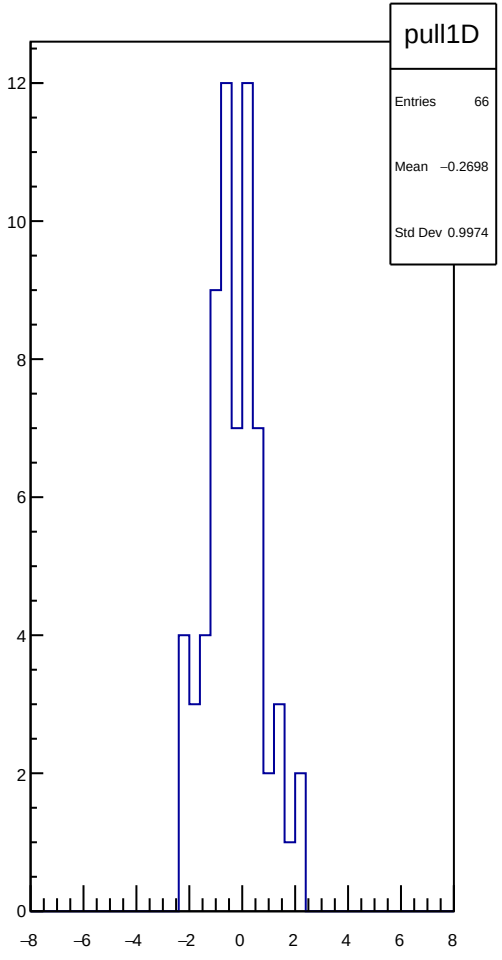

reg_asym_ds_avg_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 70.95 / 65
p0 30.05 ± 286.8
1000
800
600
400
200
0
−200
−400
pull
Entries 66
Mean 29.94
Std Dev 20.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

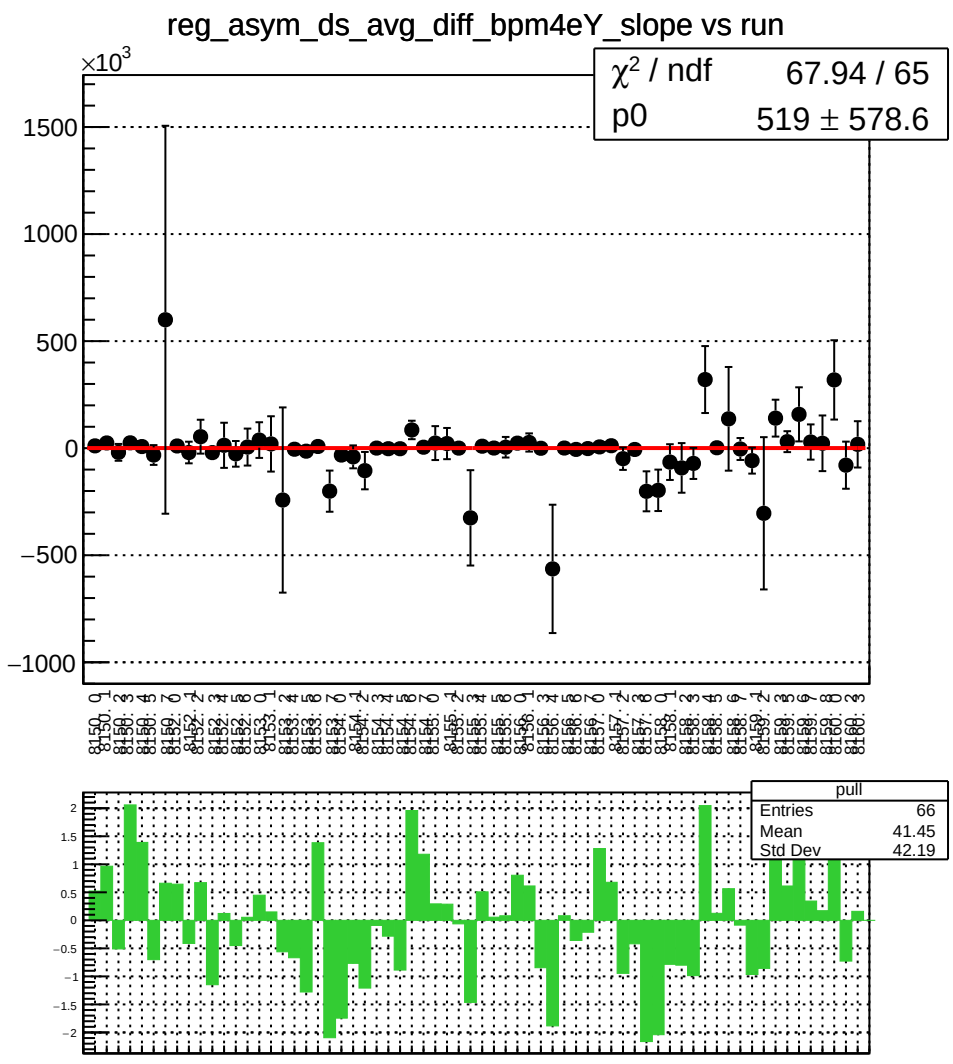

pull1D
Entries 66
Mean 0.3213
Std Dev 0.9858
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

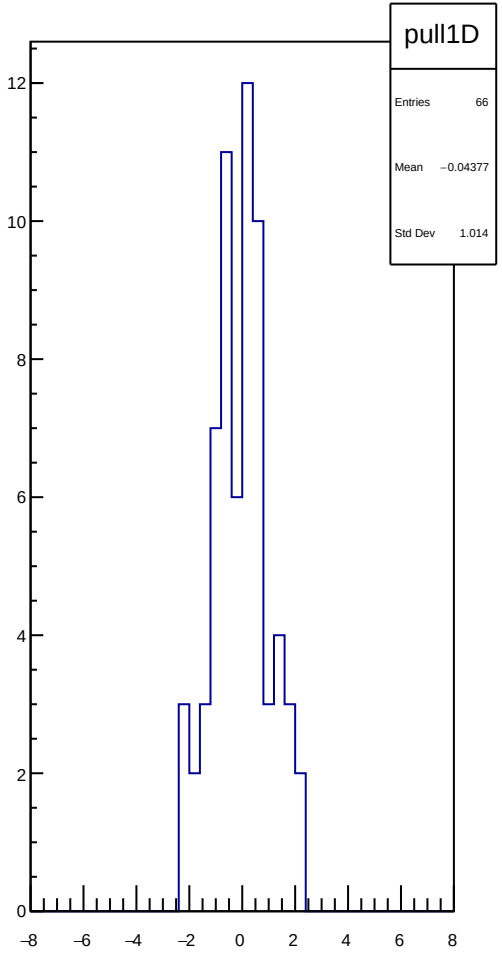

reg_asym_ds_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 65.59 / 65
p0 −595.5 ± 541
500
0
−500
−1000
−1500
pull
Entries 66
Mean 38.65
Std Dev 49.38
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

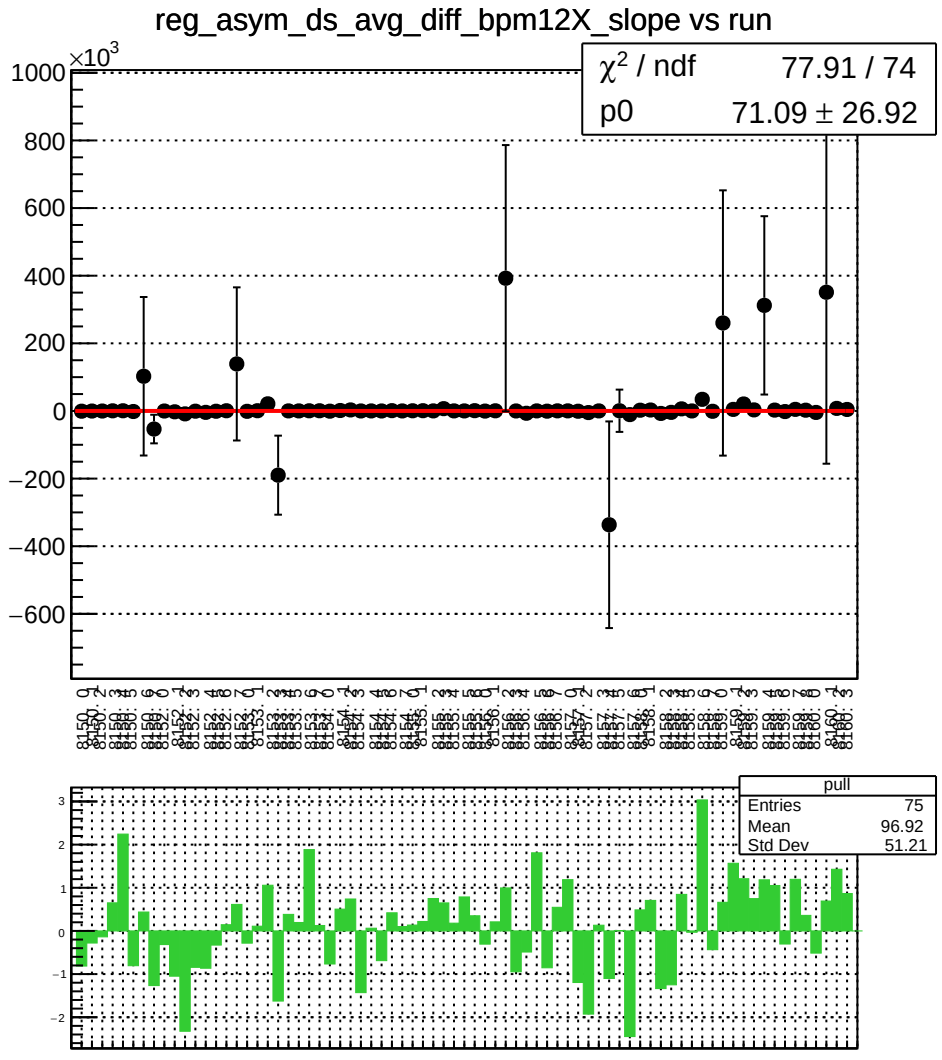

pull1D
Entries 66
Mean 0.03138
Std Dev 0.9964
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

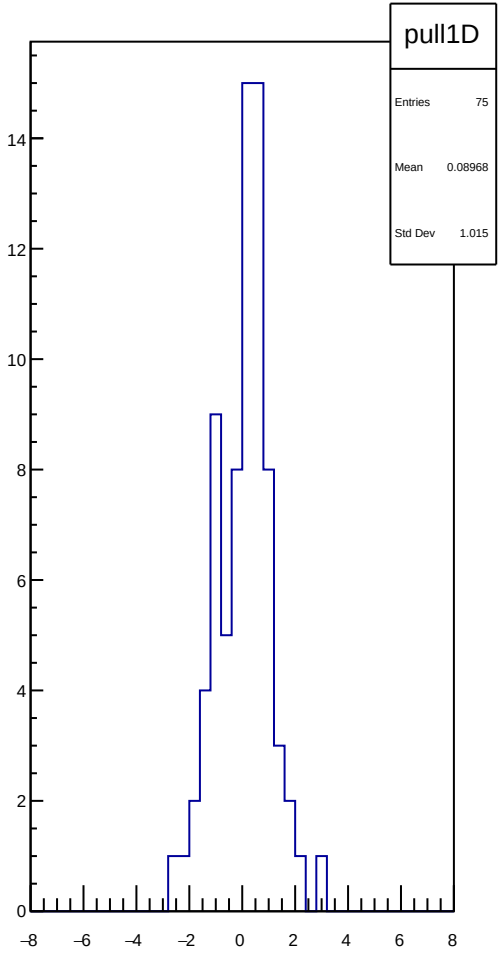

reg_asym_ds_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 70.46 / 65
p0 98.6 ± 288.8
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 66
Mean 25.23
Std Dev 18.92
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

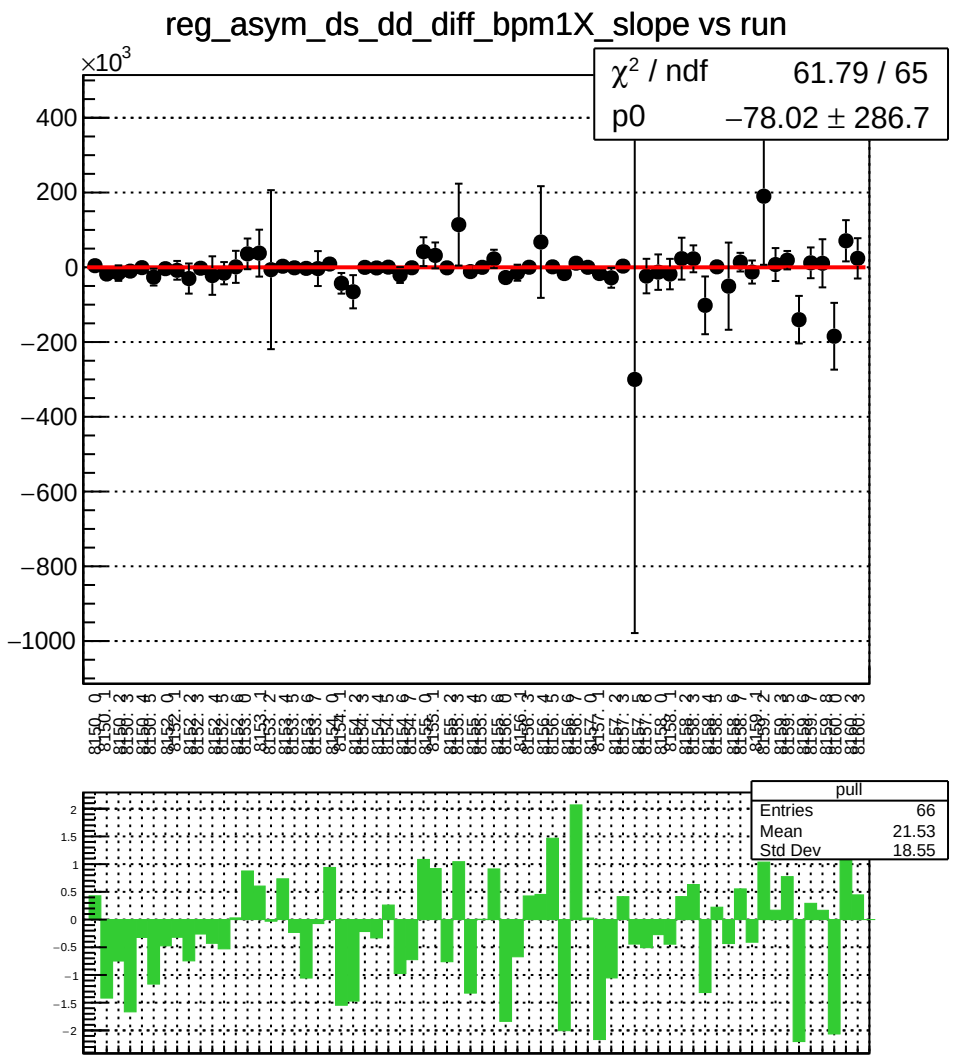

pull1D
Entries 66
Mean −0.2698
Std Dev 0.9974
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

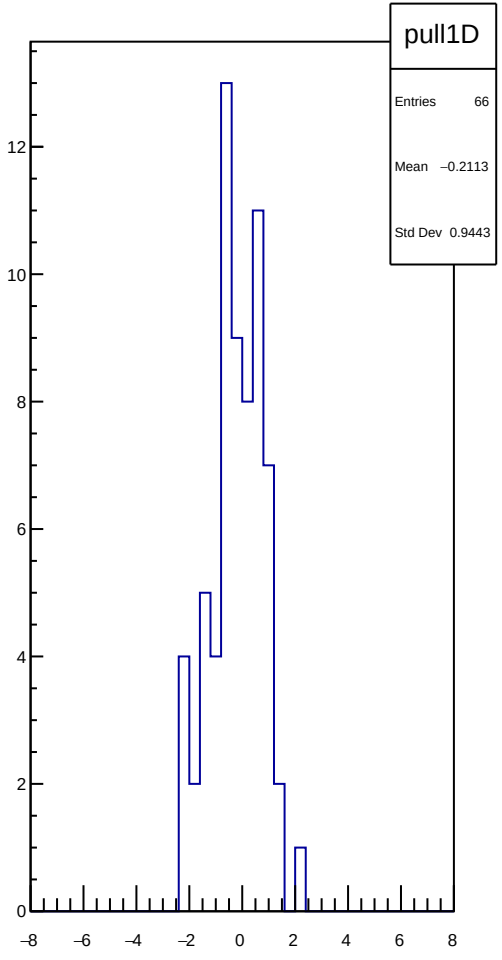

reg_asym_ds_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 67.94 / 65
p0 519 ± 578.6
1500
1000
500
0
−500
−1000
pull
Entries 66
Mean 41.45
Std Dev 42.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

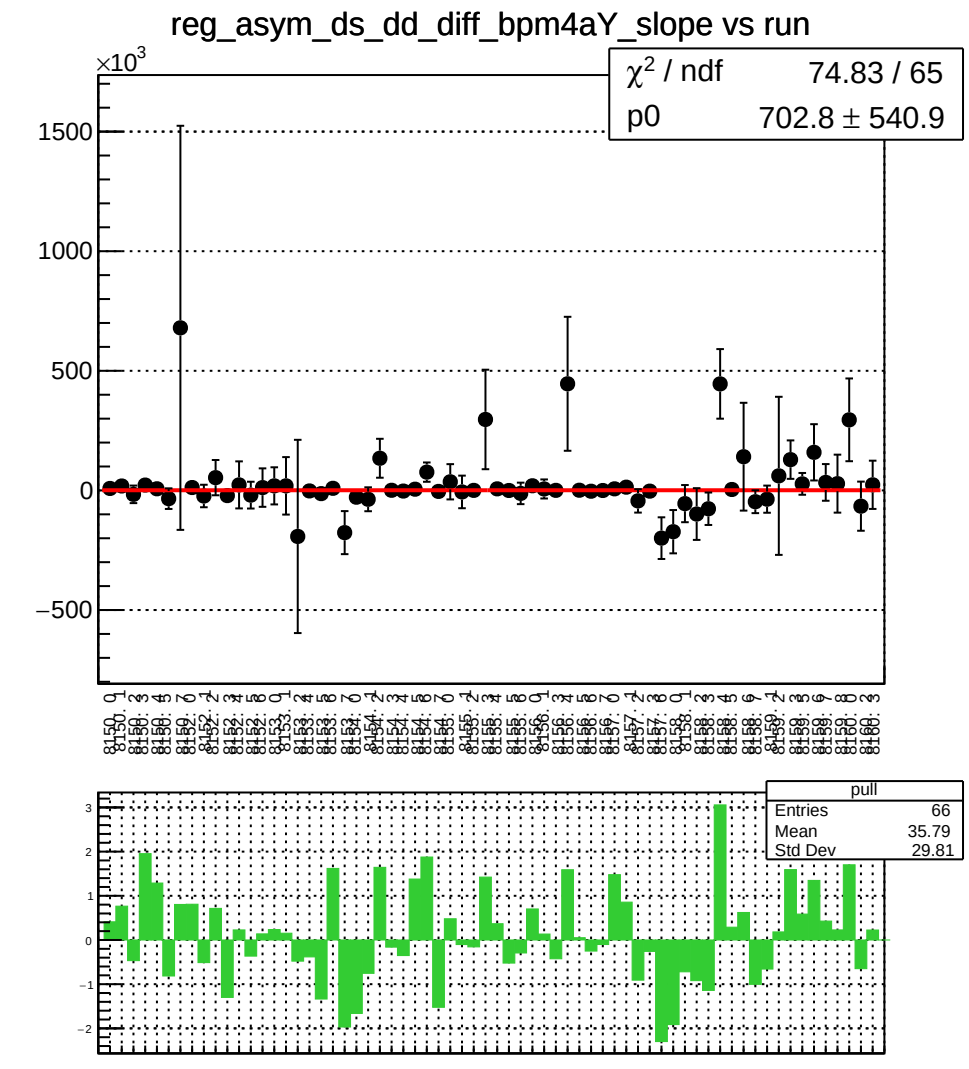

pull1D
Entries 66
Mean −0.04377
Std Dev 1.014
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

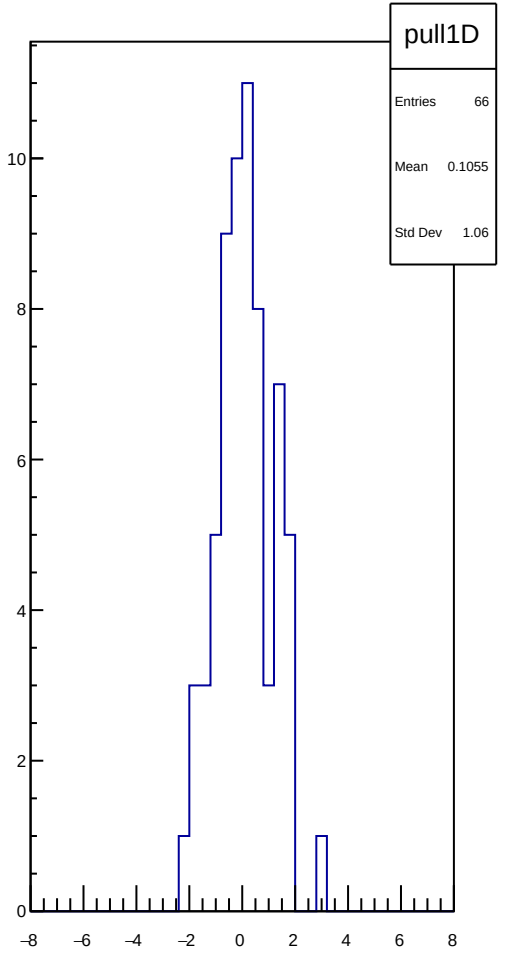

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 77.91 / 74
p0 71.09 ± 26.92
pull
Entries 75
Mean 96.92
Std Dev 51.21

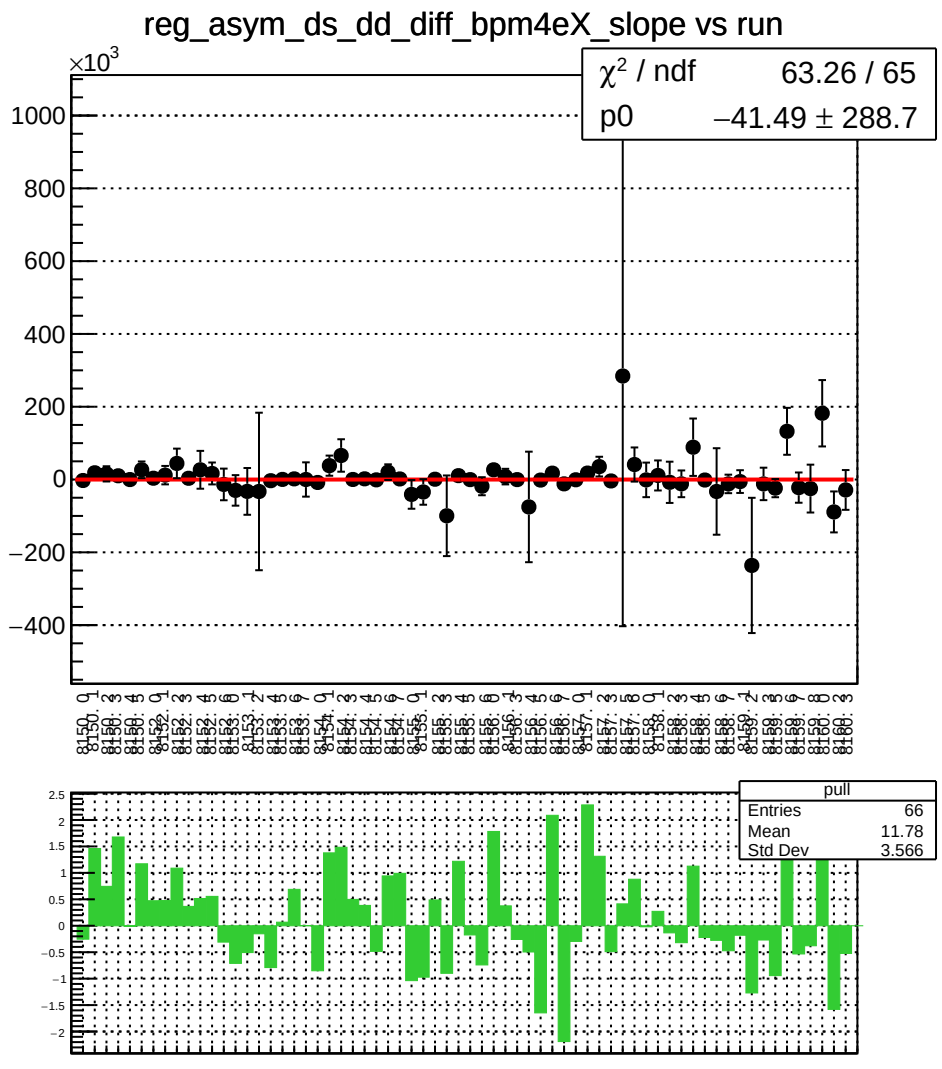

pull1D
Entries 75
Mean 0.08968
Std Dev 1.015

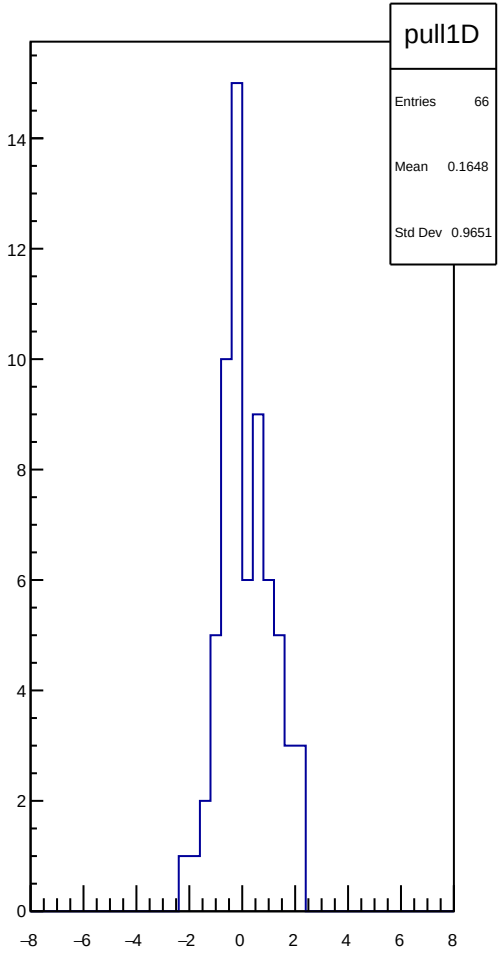

reg_asym_ds_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 61.79 / 65
p0 −78.02 ± 286.7
pull
Entries 66
Mean 21.53
Std Dev 18.55

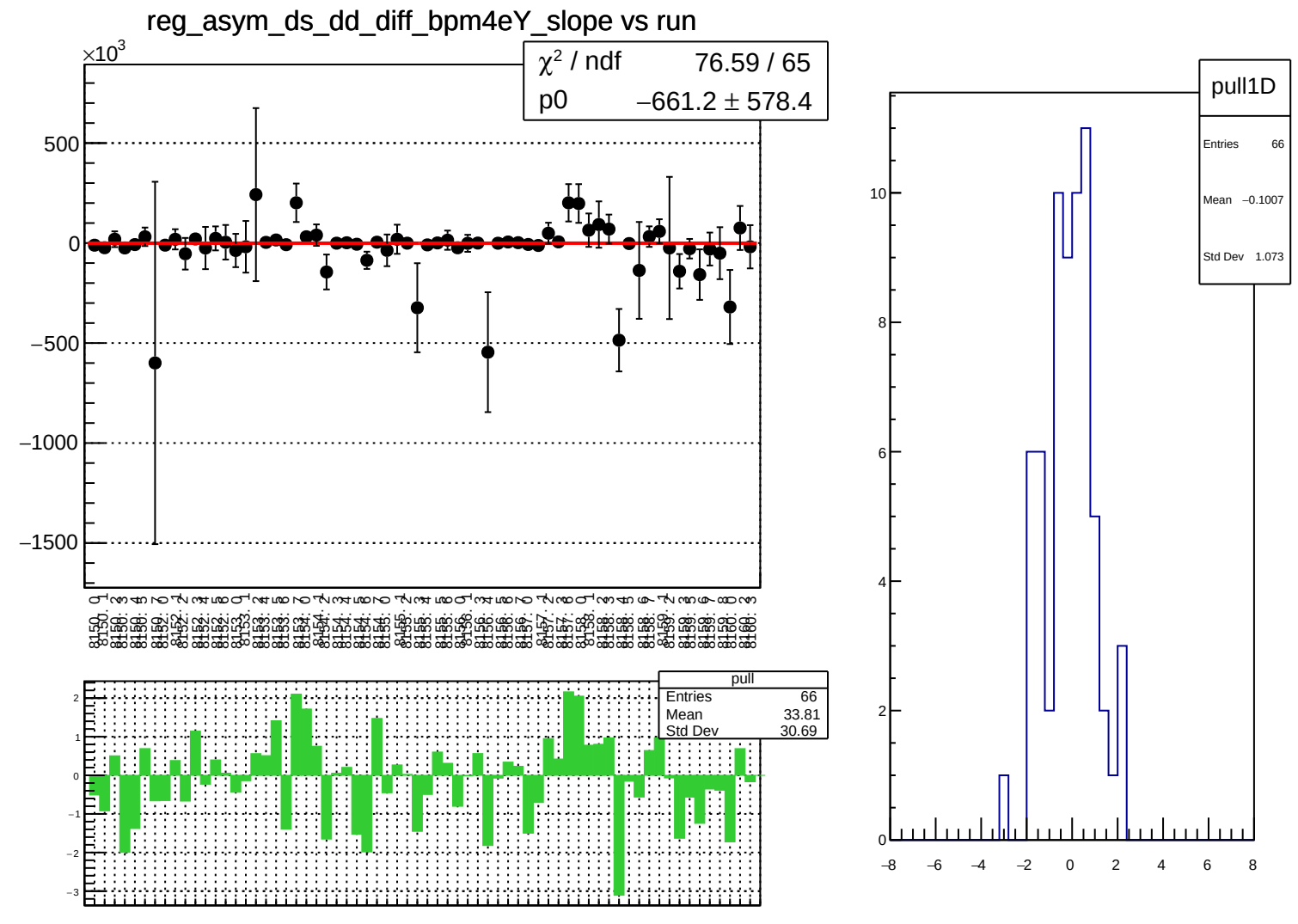

pull1D
Entries 66
Mean −0.2113
Std Dev 0.9443

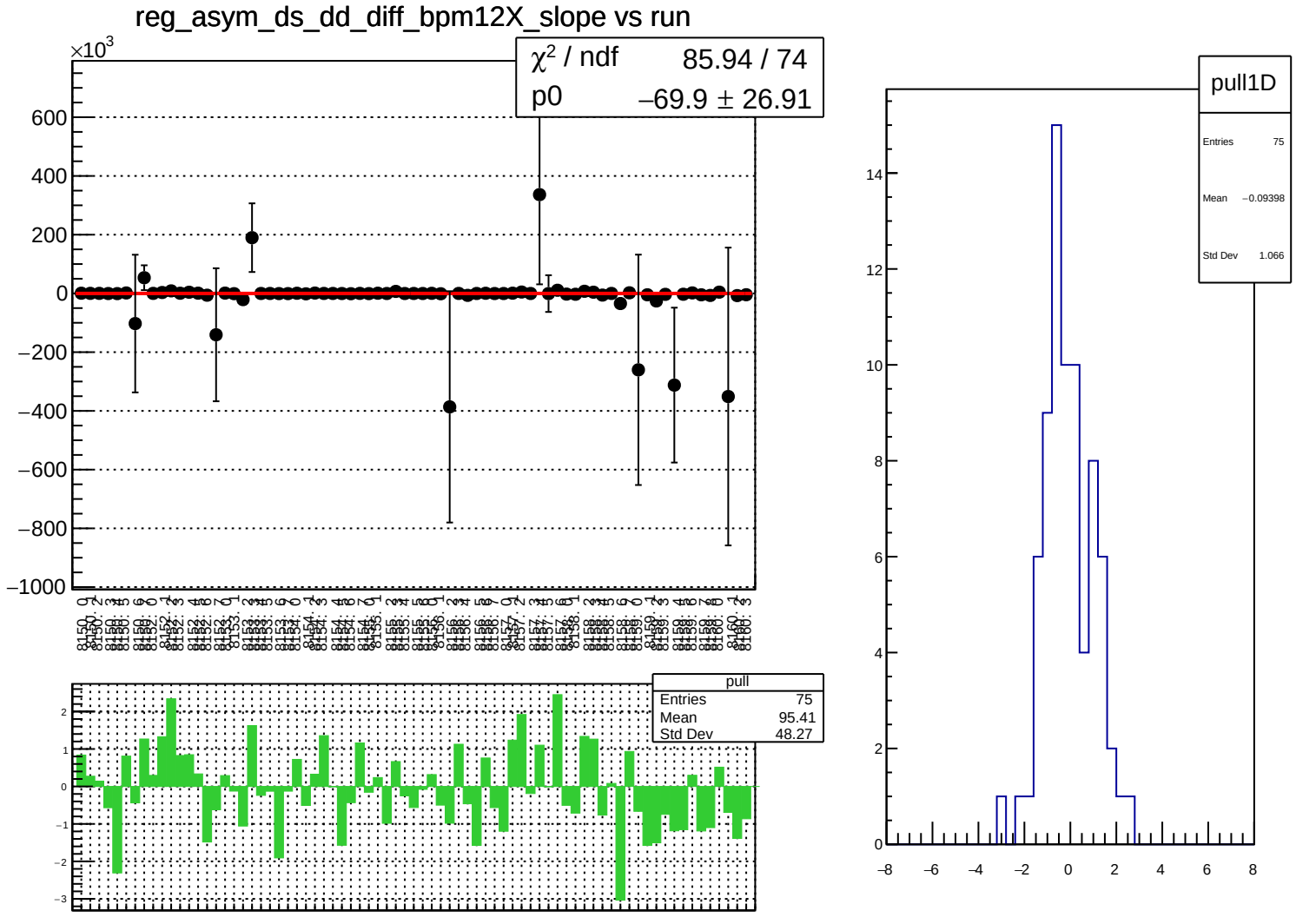

reg_asym_ds_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 74.83 / 65
p0 702.8 ± 540.9
1500
1000
500
0
−500
pull
Entries 66
Mean 35.79
Std Dev 29.81
3
2
1
0
−1
−2

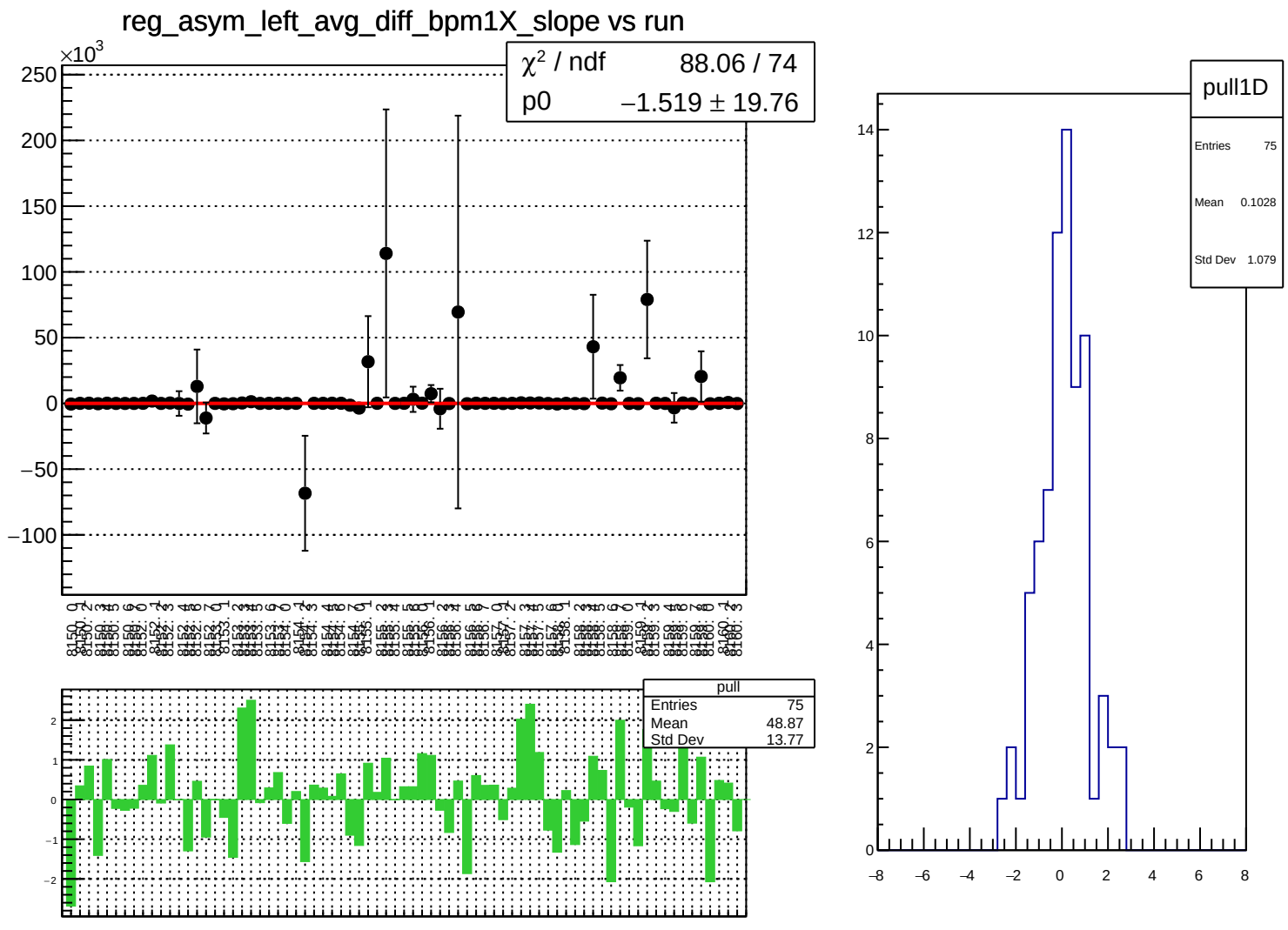

pull1D
Entries 66
Mean 0.1055
Std Dev 1.06
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

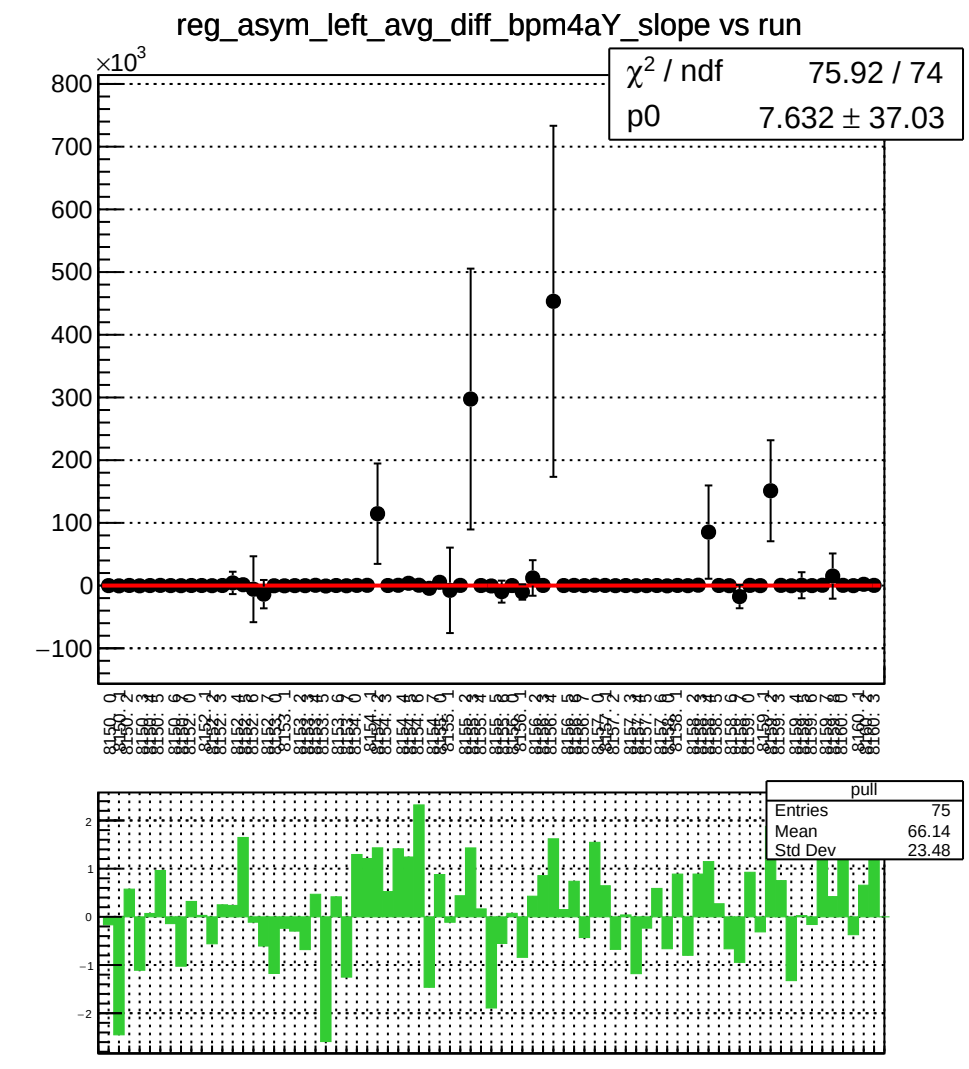

reg_asym_ds_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 63.26 / 65
p0 −41.49 ± 288.7
1000
800
600
400
200
0
−200
−400
pull
Entries 66
Mean 11.78
Std Dev 3.566
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

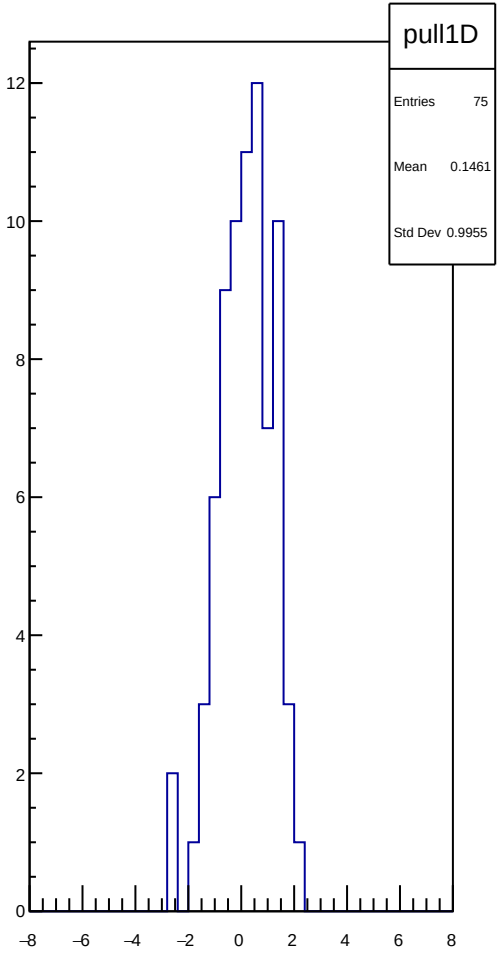

pull1D
Entries 66
Mean 0.1648
Std Dev 0.9651
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

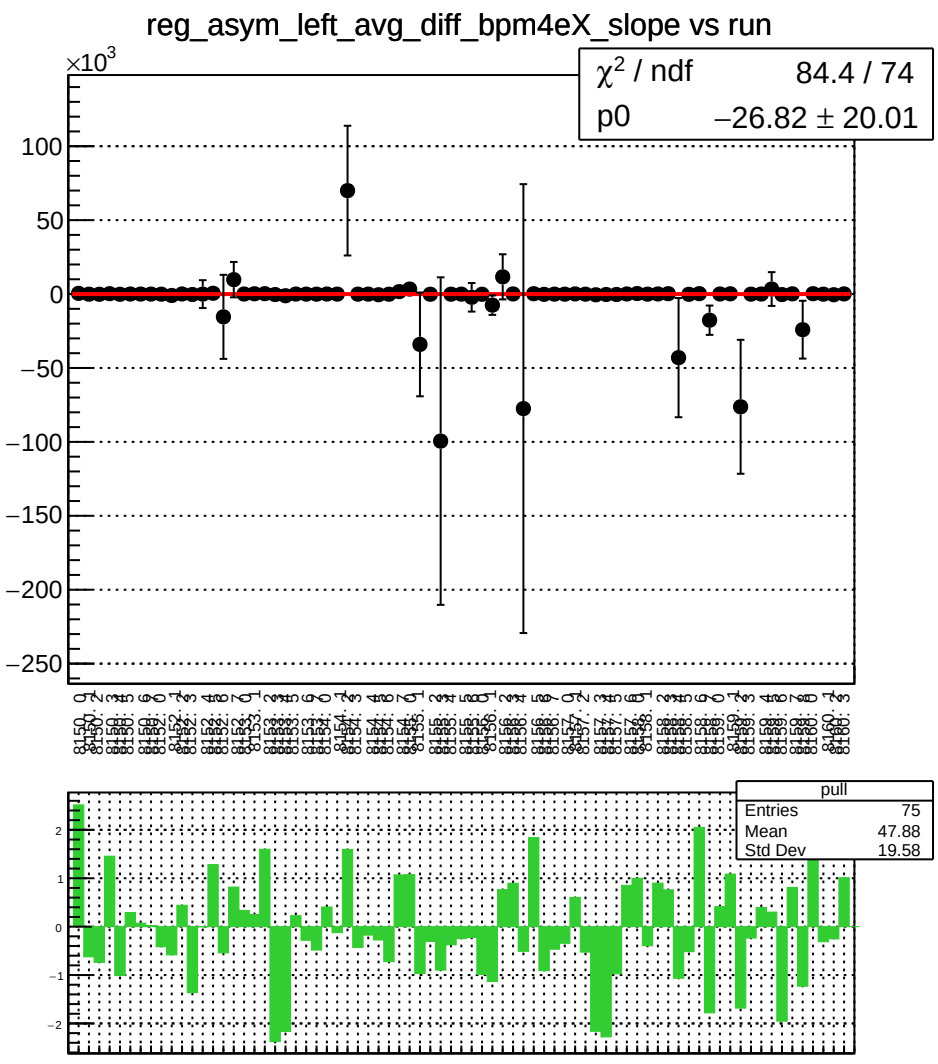

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.59 / 65
p0 −661.2 ± 578.4
×10³
500
0
−500
−1000
−1500
pull
Entries 66
Mean 33.81
Std Dev 30.69
pull1D
Entries 66
Mean −0.1007
Std Dev 1.073

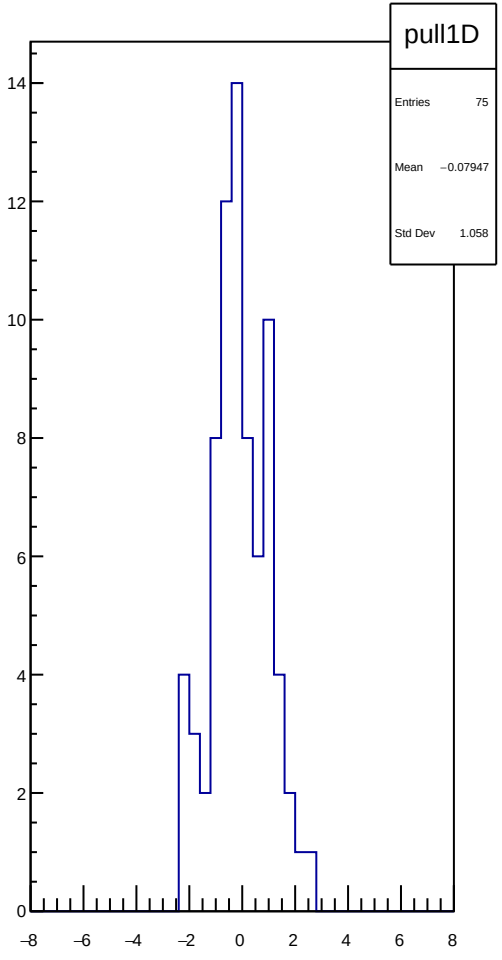

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 85.94 / 74
p0 −69.9 ± 26.91
×10³
pull
Entries 75
Mean 95.41
Std Dev 48.27
pull1D
Entries 75
Mean −0.09398
Std Dev 1.066

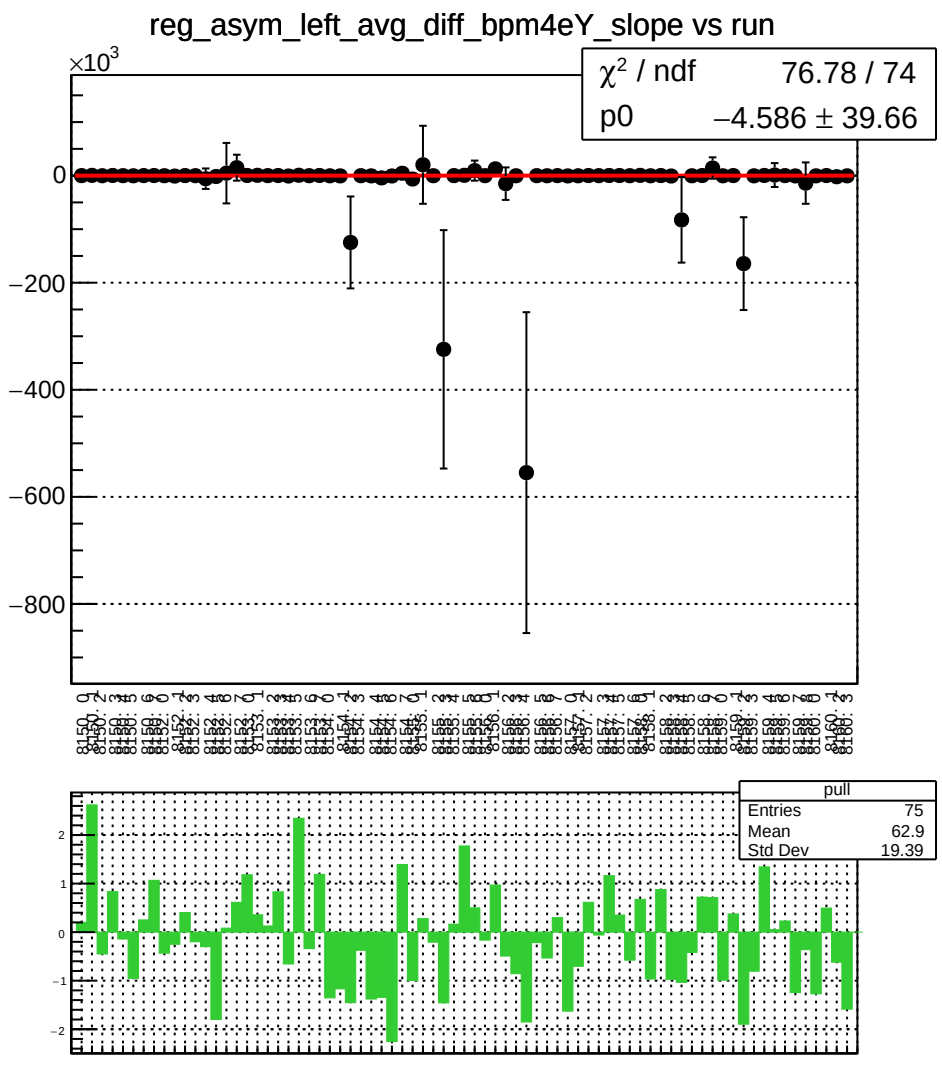

reg_asym_left_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 88.06 / 74
p0 −1.519 ± 19.76
pull
Entries 75
Mean 48.87
Std Dev 13.77
pull1D
Entries 75
Mean 0.1028
Std Dev 1.079

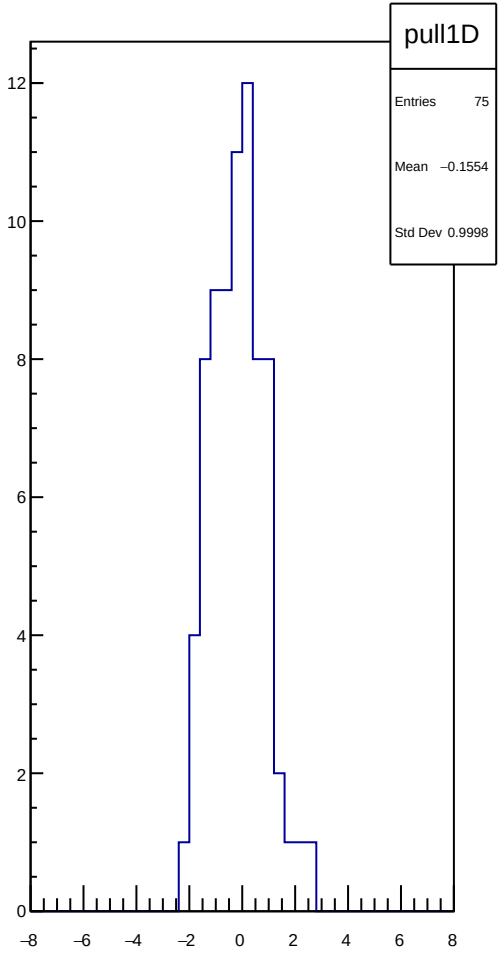

reg_asym_left_avg_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 75.92 / 74
p0 7.632 ± 37.03
pull
Entries 75
Mean 66.14
Std Dev 23.48

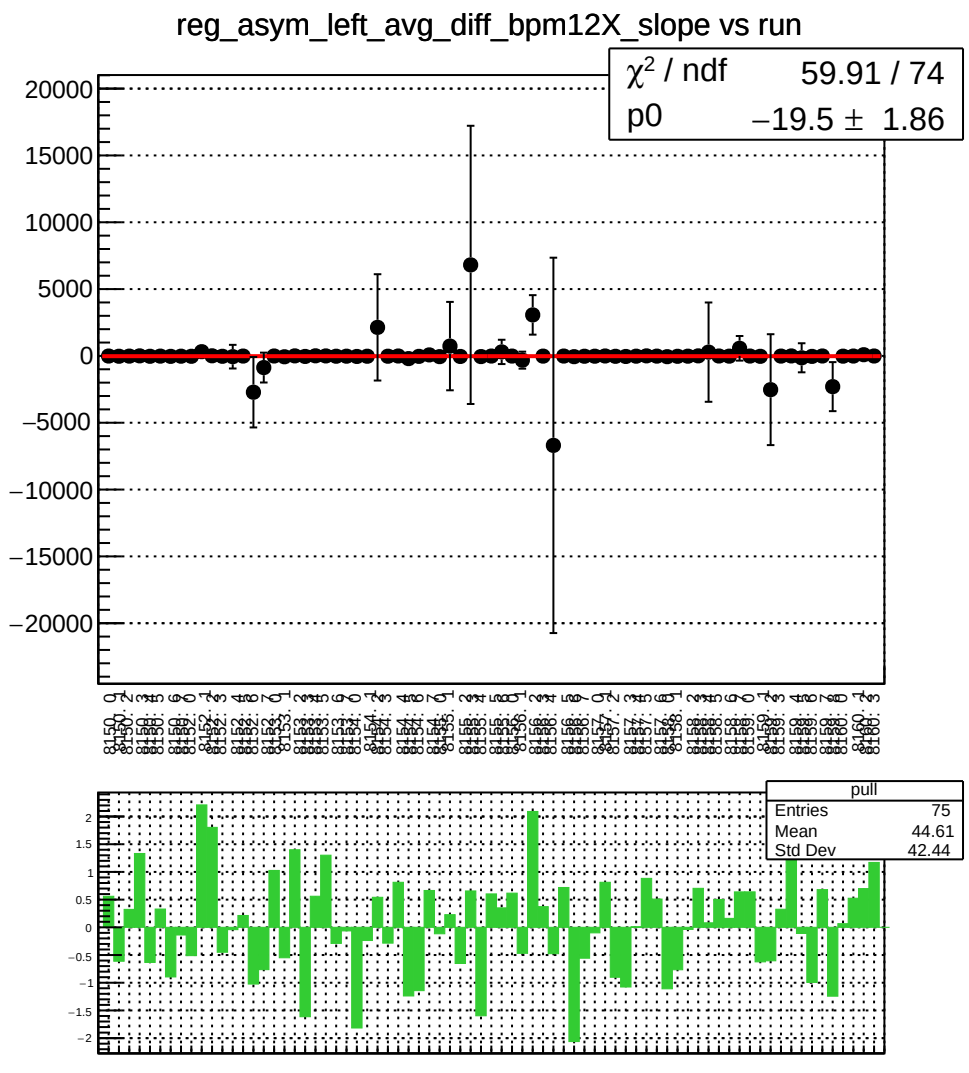

pull1D
Entries 75
Mean 0.1461
Std Dev 0.9955

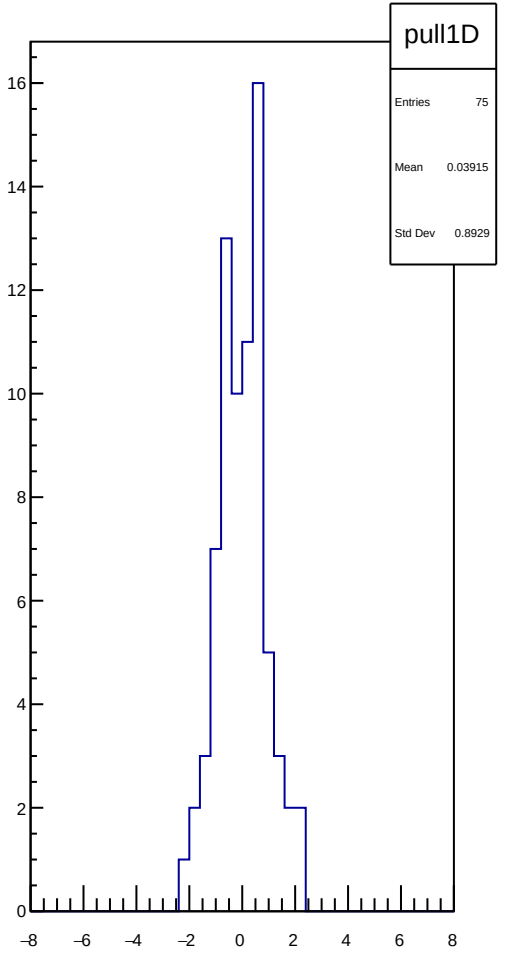

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.4 / 74
p0 −26.82 ± 20.01
×10³
pull
Entries 75
Mean 47.88
Std Dev 19.58

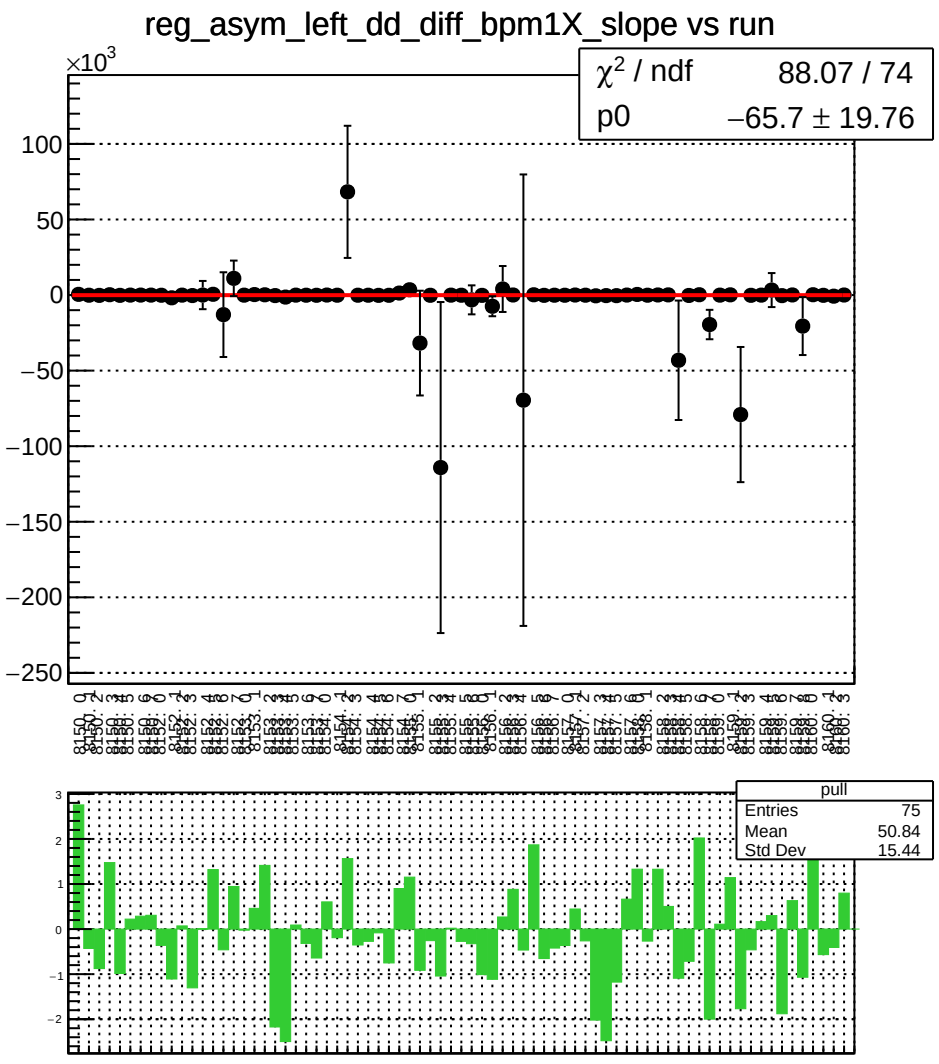

pull1D
Entries 75
Mean −0.07947
Std Dev 1.058

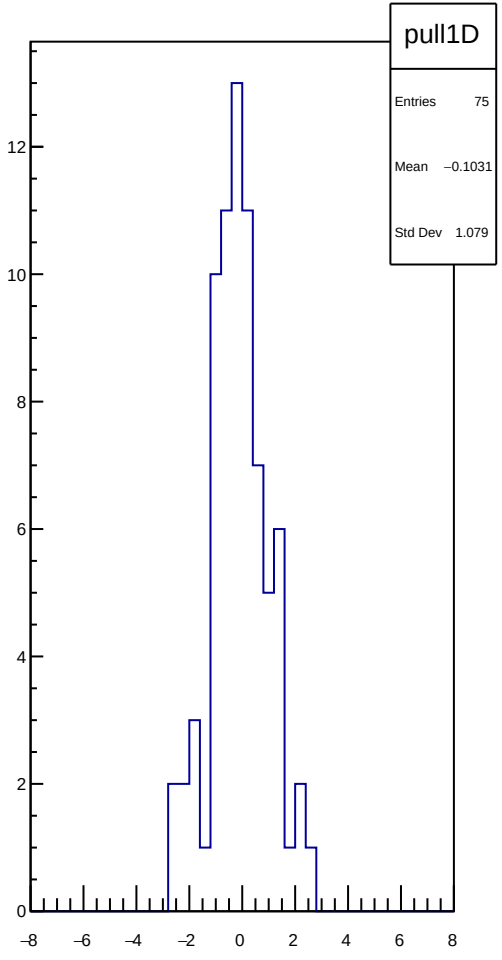

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 76.78 / 74
p0 −4.586 ± 39.66
×10³
0
−200
−400
−600
−800
pull
Entries 75
Mean 62.9
Std Dev 19.39
2
1
0
−1
−2

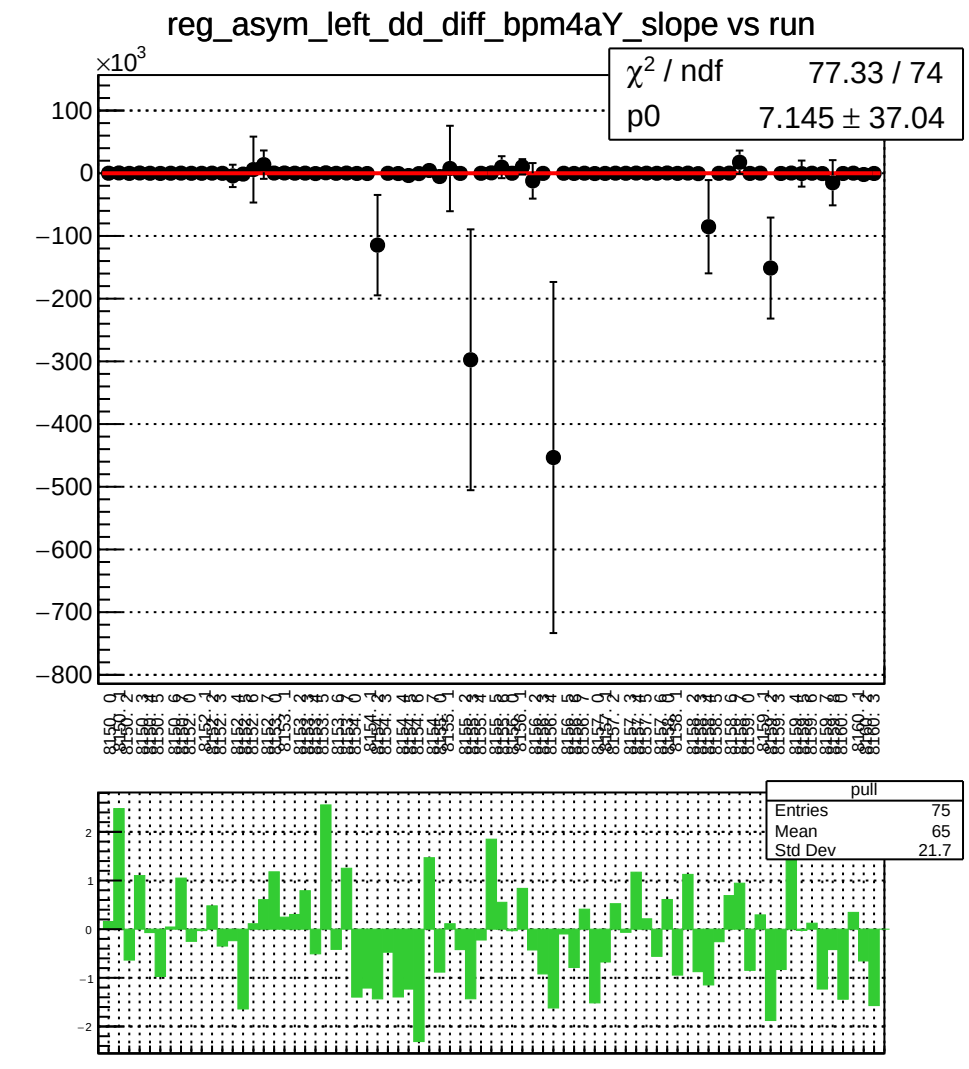

pull1D
Entries 75
Mean −0.1554
Std Dev 0.9998
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

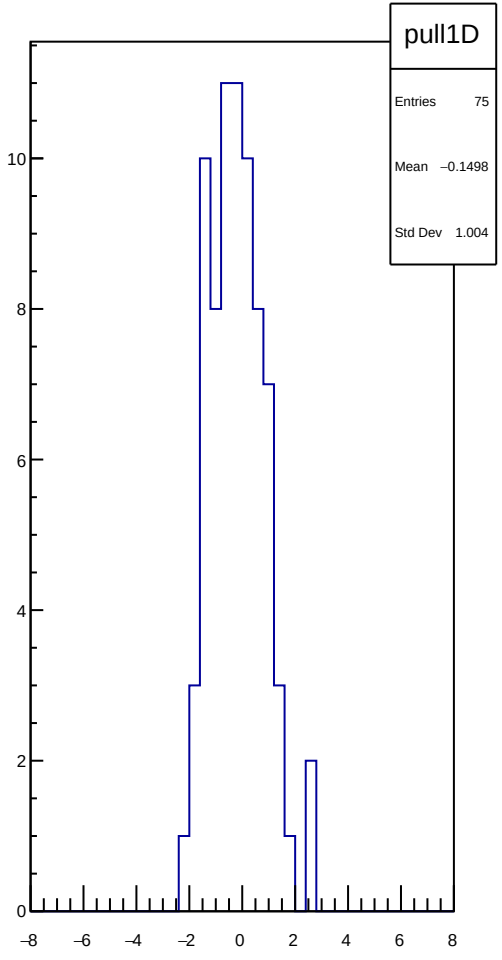

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 59.91 / 74
p0 −19.5 ± 1.86
pull
Entries 75
Mean 44.61
Std Dev 42.44

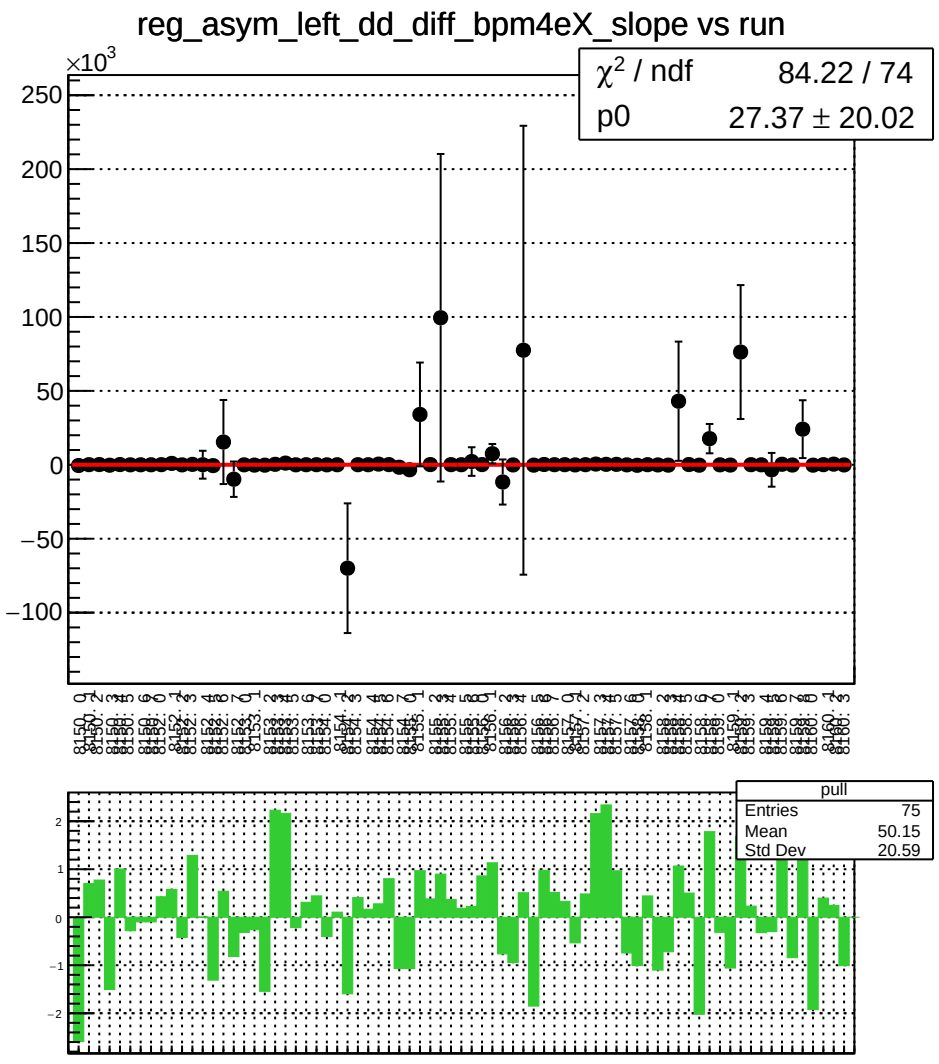

pull1D
Entries 75
Mean 0.03915
Std Dev 0.8929

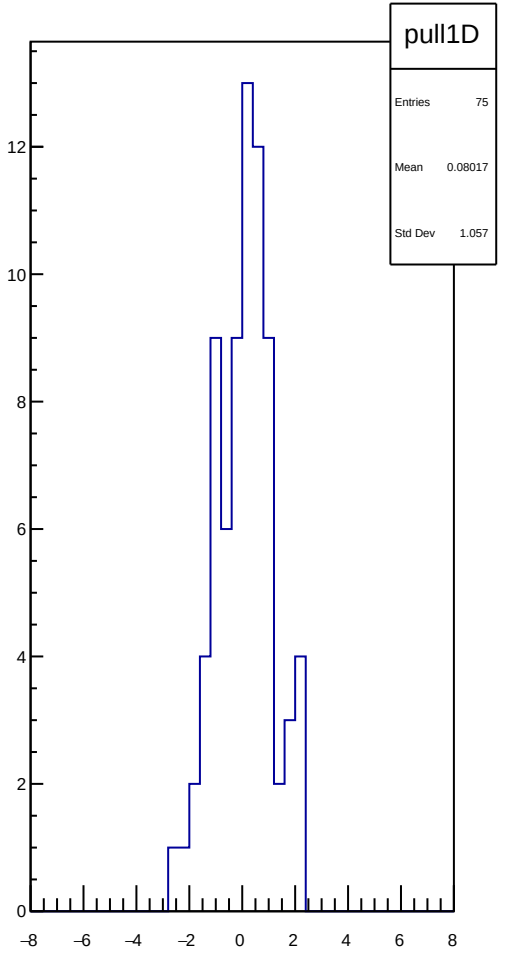

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 88.07 / 74
p0 −65.7 ± 19.76
×10³
pull
Entries 75
Mean 50.84
Std Dev 15.44

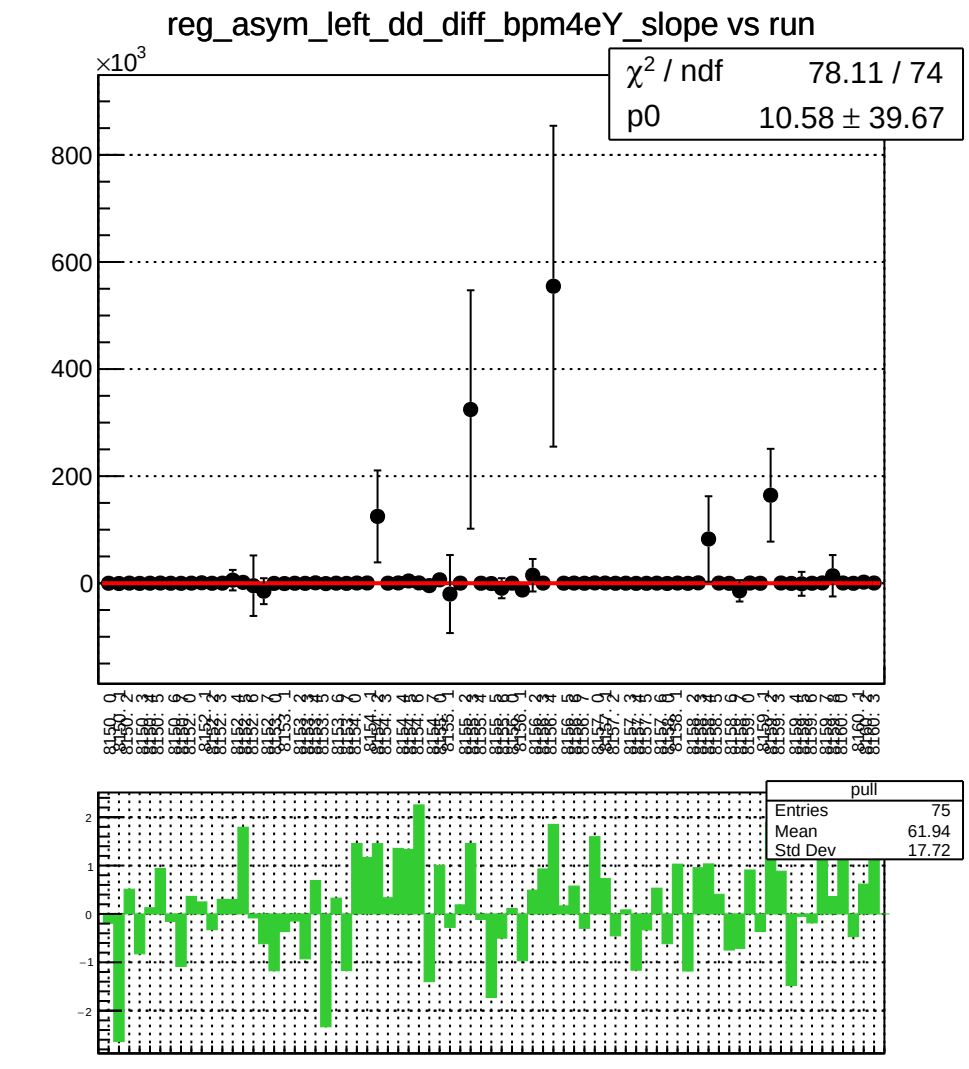

pull1D
Entries 75
Mean −0.1031
Std Dev 1.079

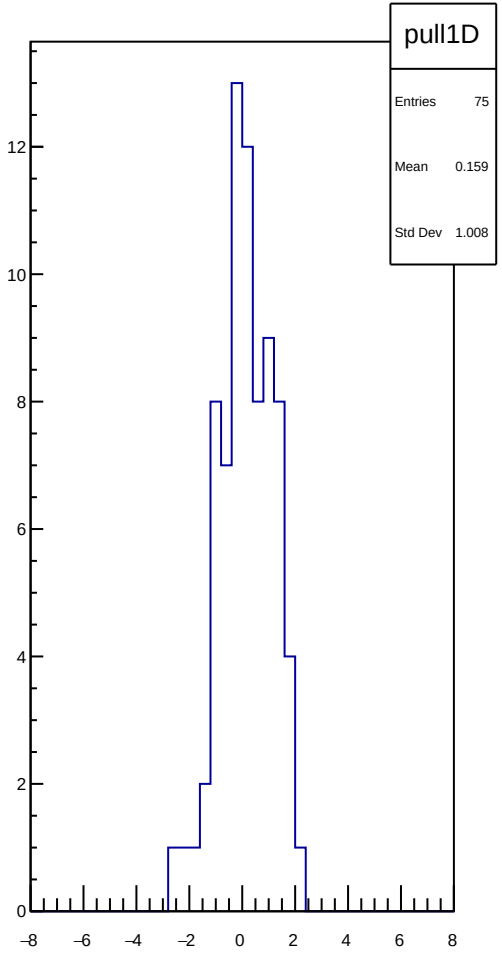

reg_asym_left_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 77.33 / 74
p0 7.145 ± 37.04
pull
Entries 75
Mean 65
Std Dev 21.7

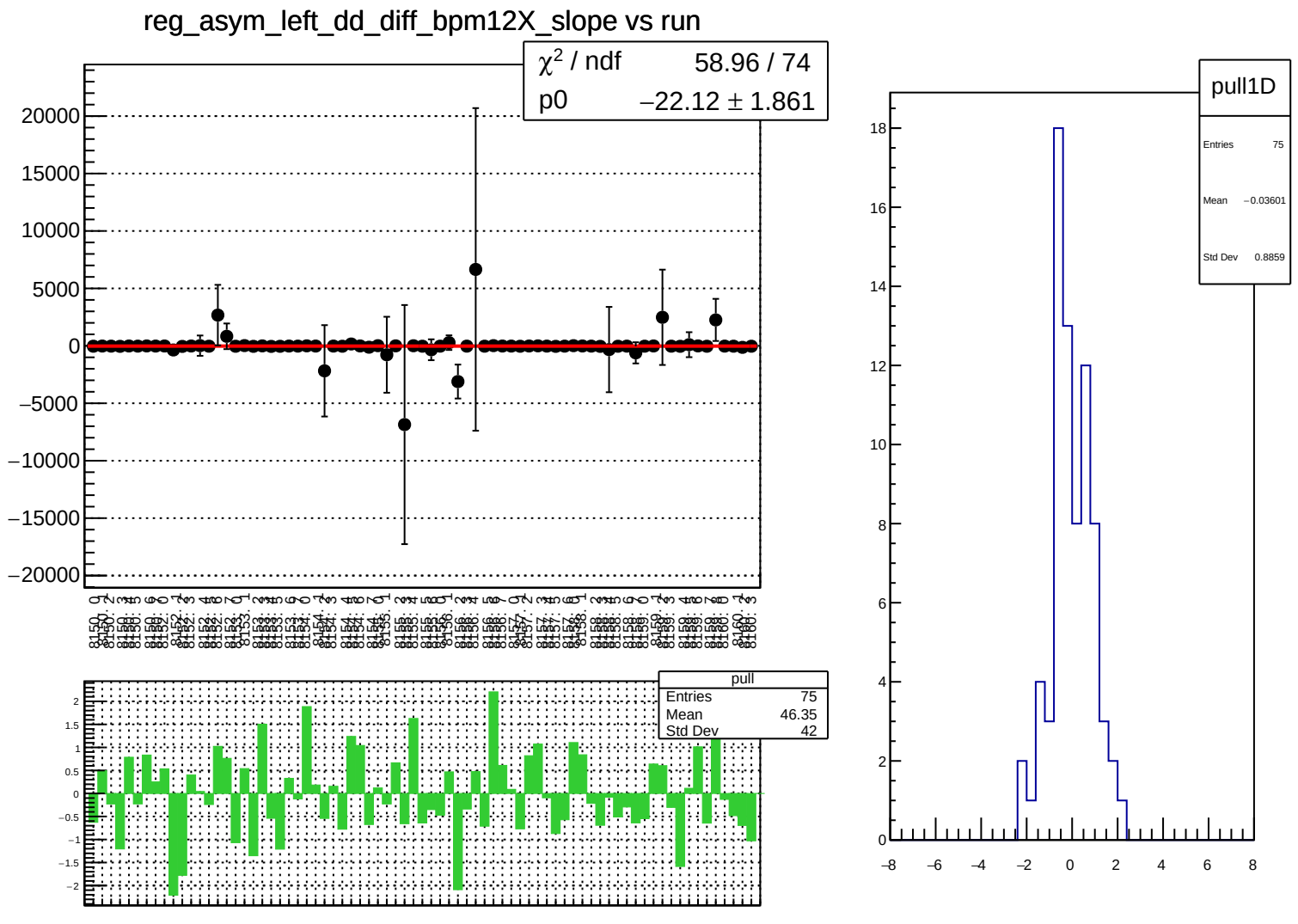

pull1D
Entries 75
Mean −0.1498
Std Dev 1.004

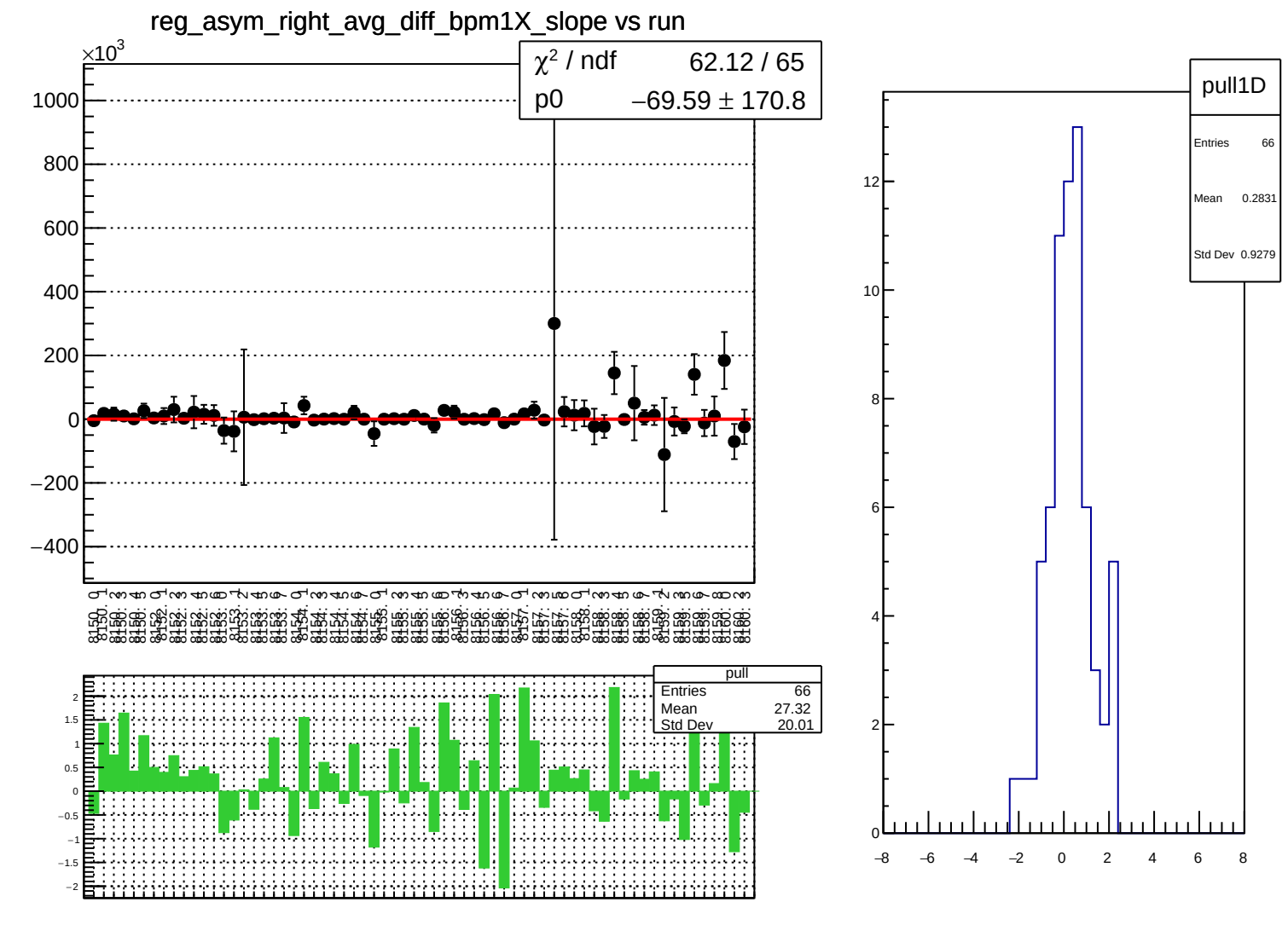

reg_asym_left_dd_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 84.22 / 74
p0 27.37 ± 20.02
pull
Entries 75
Mean 50.15
Std Dev 20.59

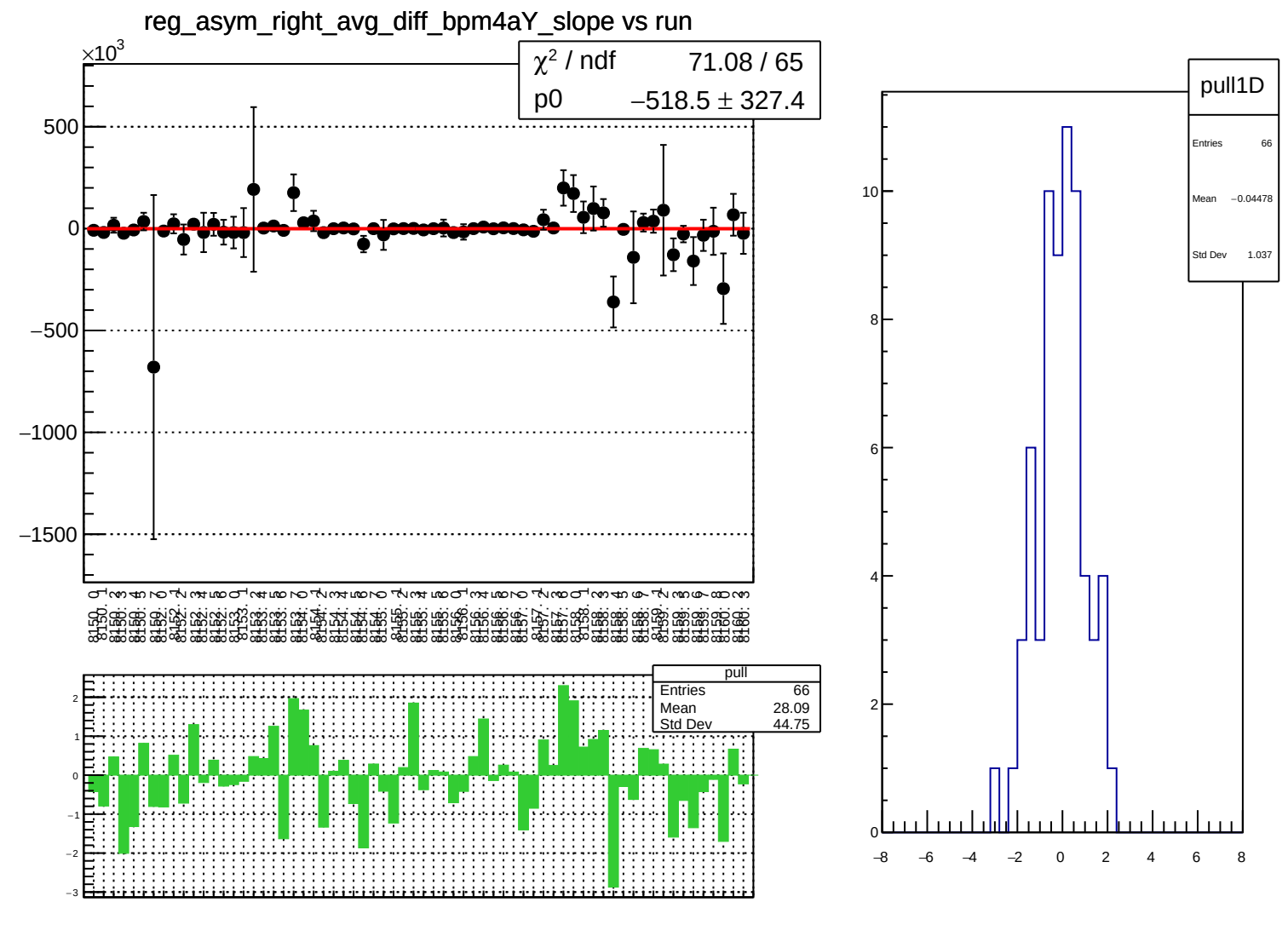

pull1D
Entries 75
Mean 0.08017
Std Dev 1.057

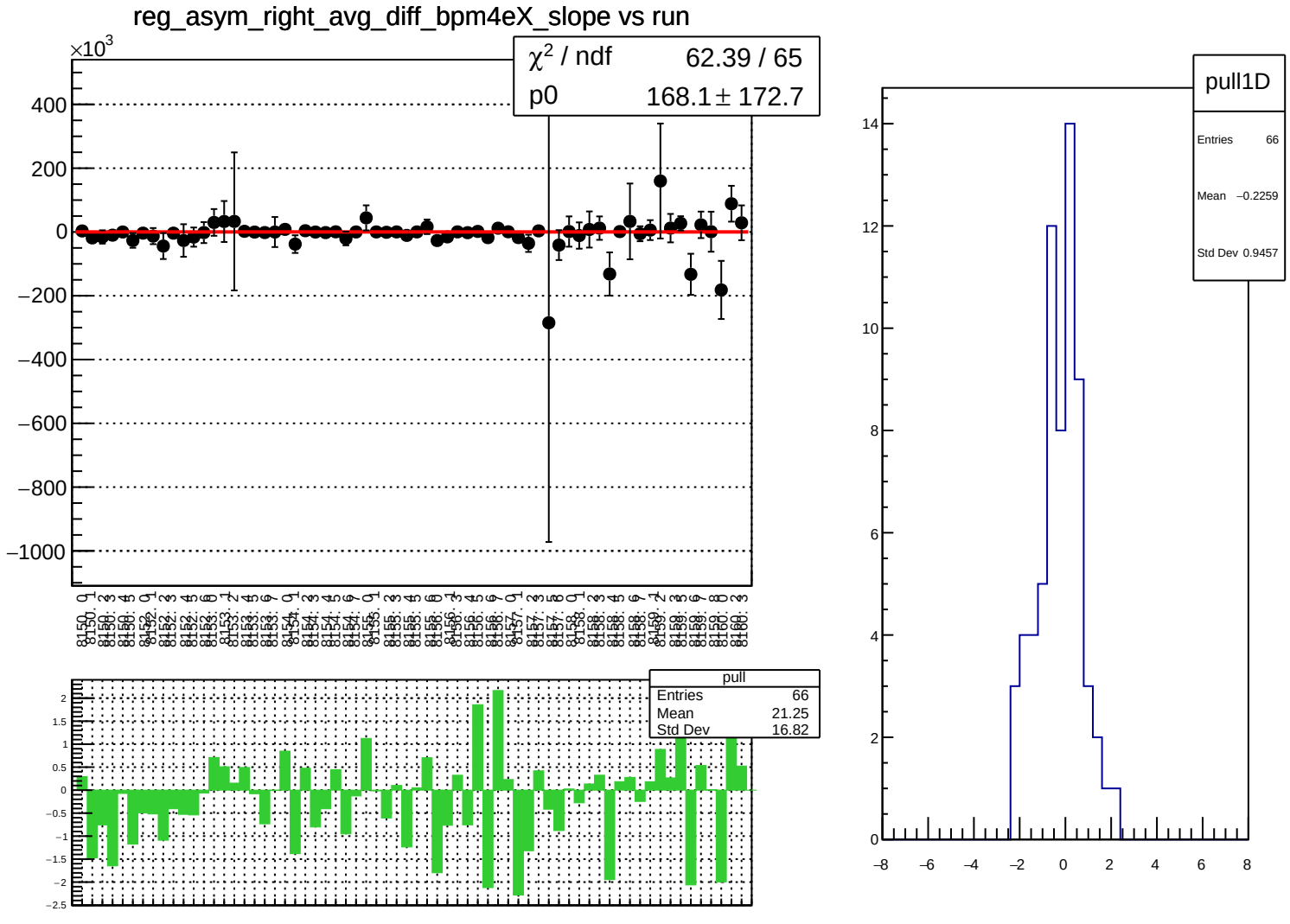

reg_asym_left_dd_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 78.11 / 74
p0 10.58 ± 39.67
800
600
400
200
0
pull
Entries 75
Mean 61.94
Std Dev 17.72
2
1
0
−1
−2

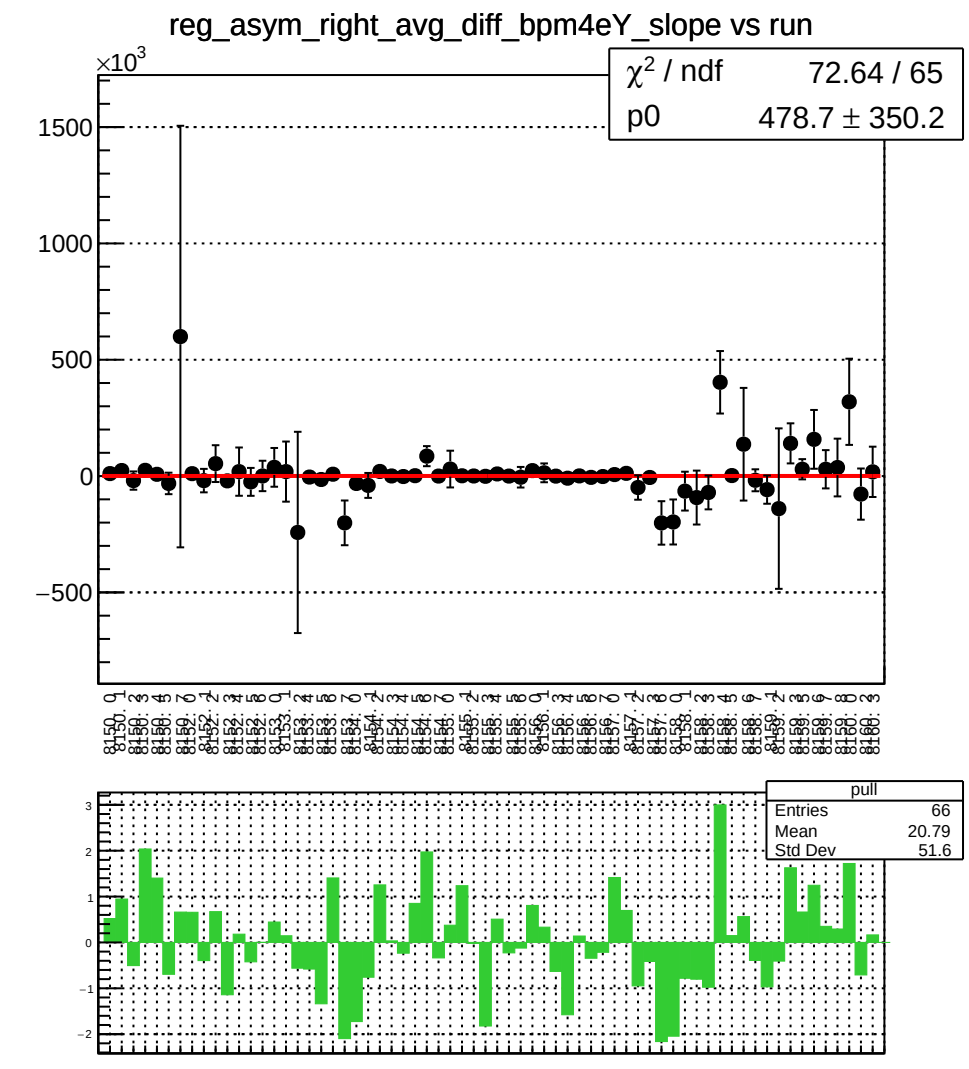

pull1D
Entries 75
Mean 0.159
Std Dev 1.008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

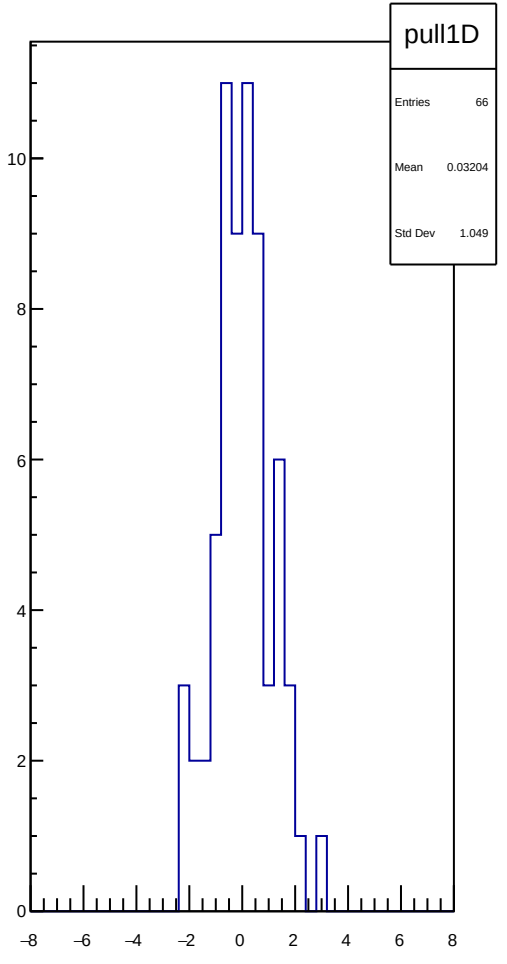

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 58.96 / 74
p0 −22.12 ± 1.861
pull
Entries 75
Mean 46.35
Std Dev 42
pull1D
Entries 75
Mean −0.03601
Std Dev 0.8859

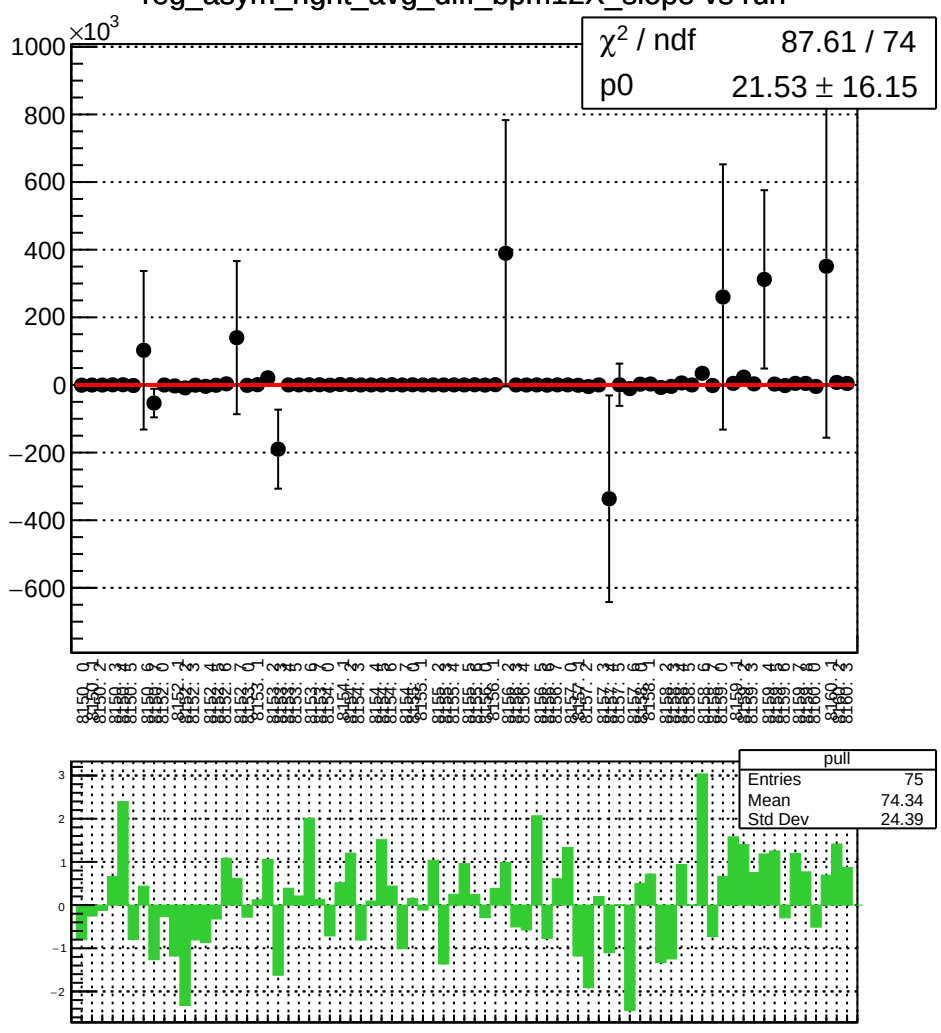

reg_asym_right_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 62.12 / 65
p0 −69.59 ± 170.8
pull
Entries 66
Mean 27.32
Std Dev 20.01
pull1D
Entries 66
Mean 0.2831
Std Dev 0.9279

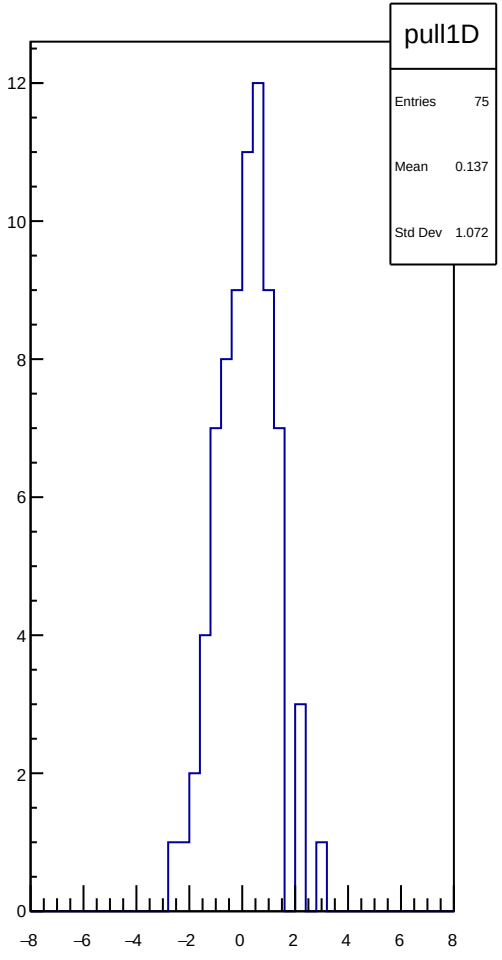

reg_asym_right_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 71.08 / 65
p0 −518.5 ± 327.4
500
0
−500
−1000
−1500
pull
Entries 66
Mean 28.09
Std Dev 44.75
pull1D
Entries 66
Mean −0.04478
Std Dev 1.037

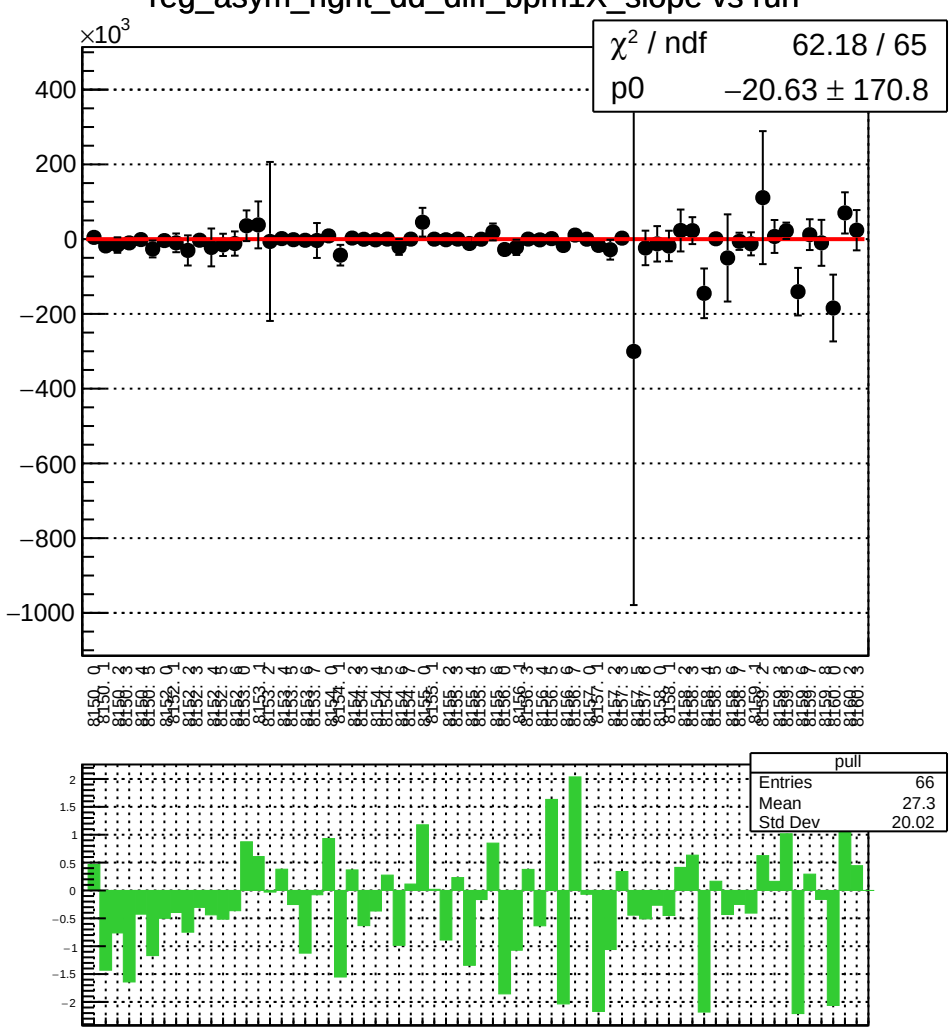

reg_asym_right_avg_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 62.39 / 65
p0 168.1 ± 172.7
pull
Entries 66
Mean 21.25
Std Dev 16.82
pull1D
Entries 66
Mean −0.2259
Std Dev 0.9457

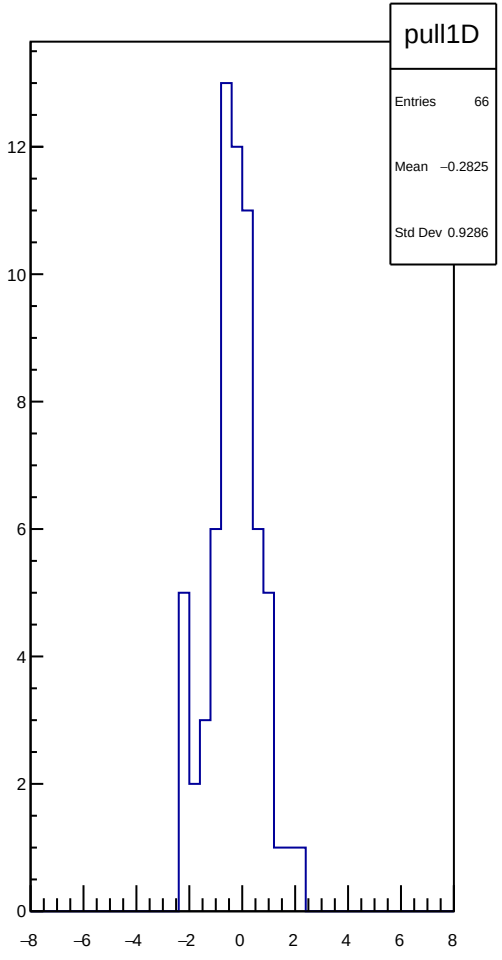

reg_asym_right_avg_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 72.64 / 65
p0 478.7 ± 350.2
1500
1000
500
0
−500
pull
Entries 66
Mean 20.79
Std Dev 51.6
3
2
1
0
−1
−2

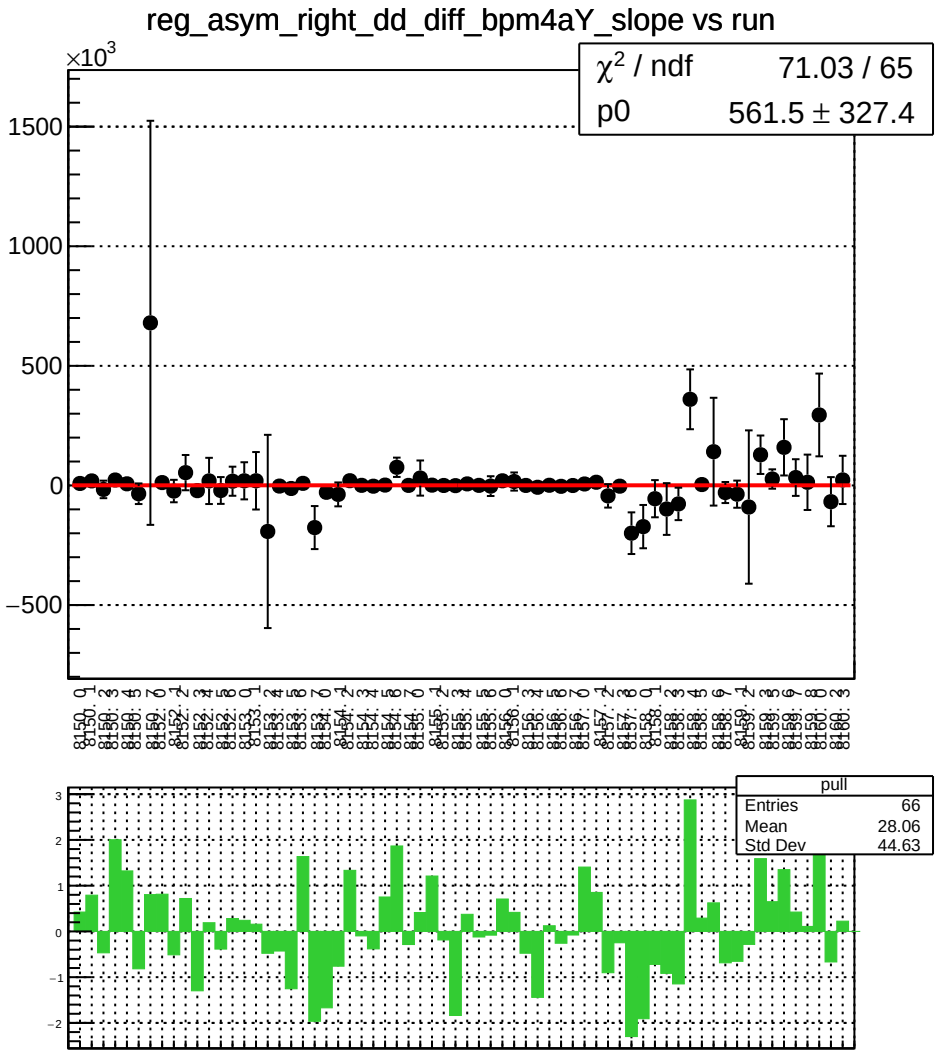

pull1D
Entries 66
Mean 0.03204
Std Dev 1.049
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

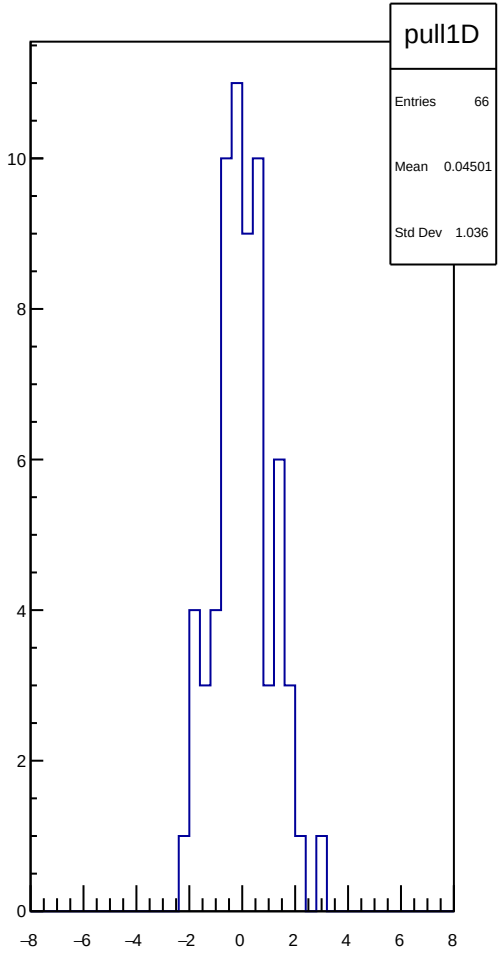

reg_asym_right_avg_diff_bpm12X_slope vs run
×10^3
χ^2 / ndf 87.61 / 74
p0 21.53 ± 16.15
pull
Entries 75
Mean 74.34
Std Dev 24.39

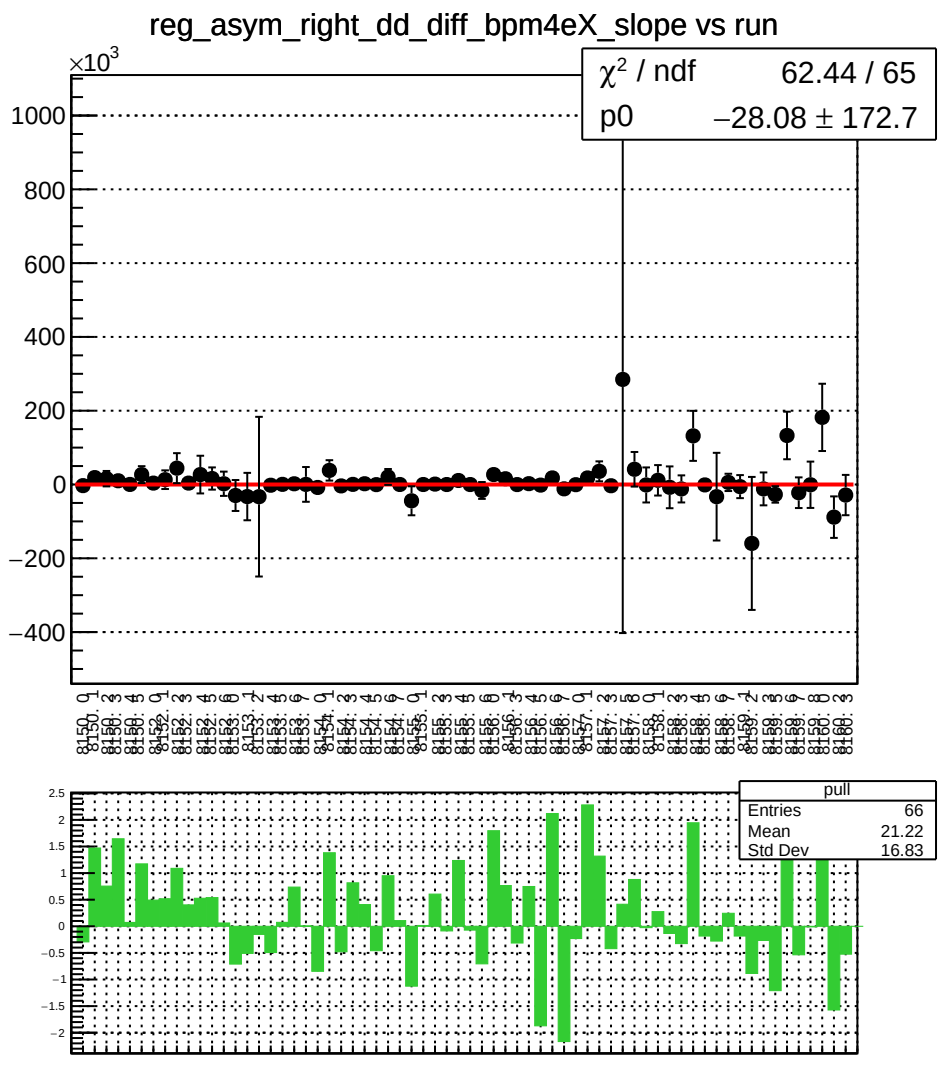

pull1D
Entries 75
Mean 0.137
Std Dev 1.072

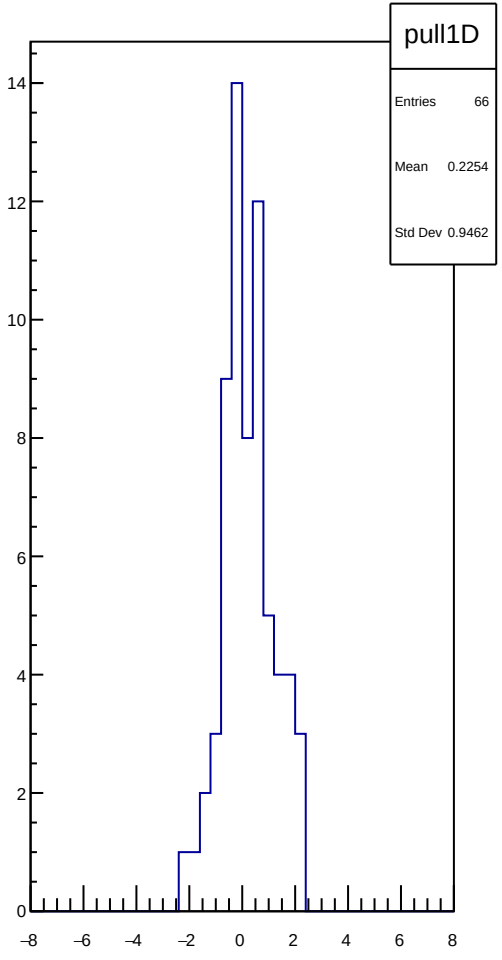

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 62.18 / 65
p0 −20.63 ± 170.8
pull
Entries 66
Mean 27.3
Std Dev 20.02

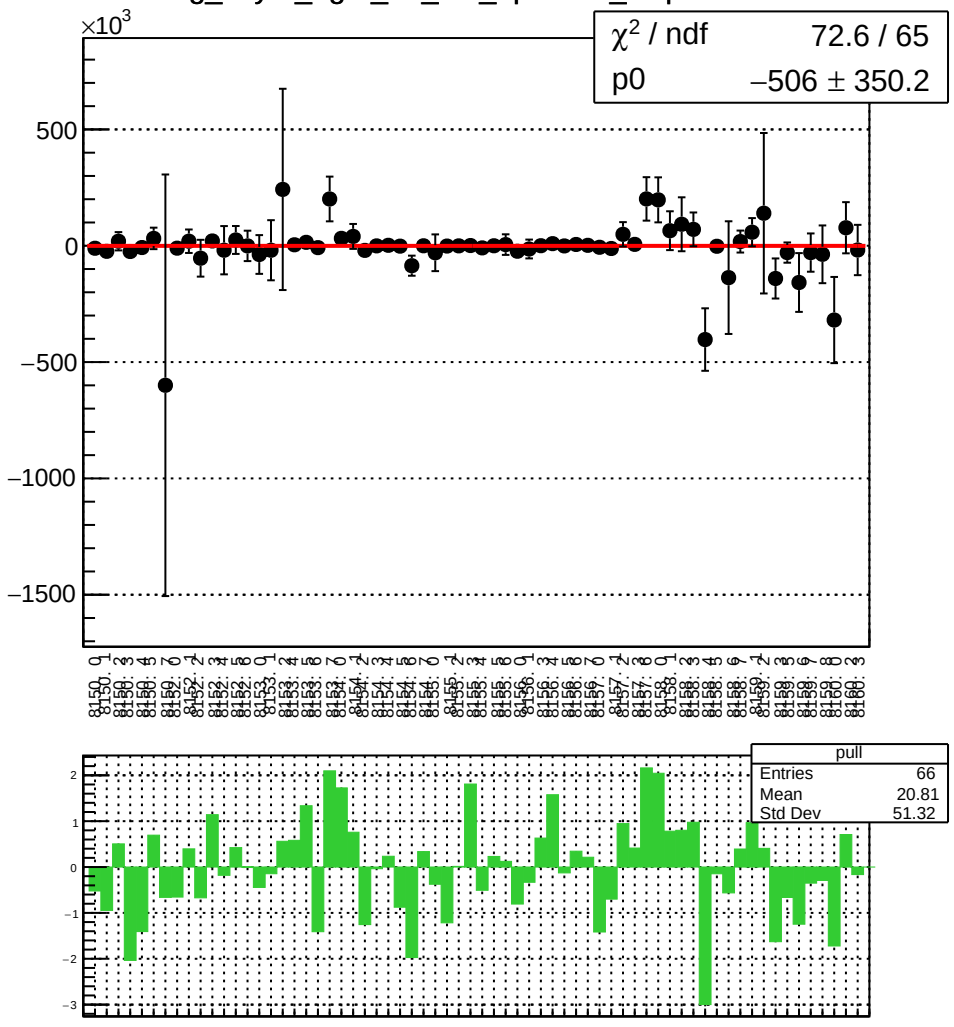

pull1D
Entries 66
Mean −0.2825
Std Dev 0.9286

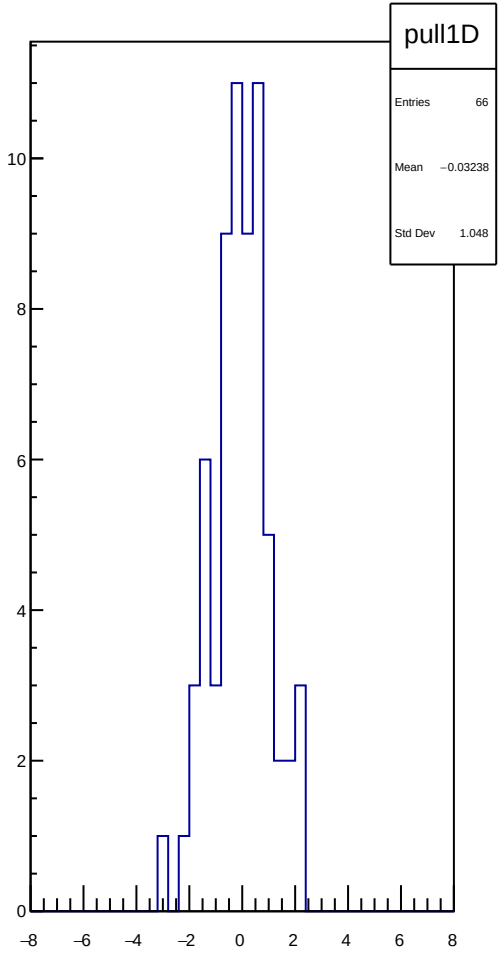

reg_asym_right_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 71.03 / 65
p0 561.5 ± 327.4
1500
1000
500
0
−500
pull
Entries 66
Mean 28.06
Std Dev 44.63
3
2
1
0
−1
−2

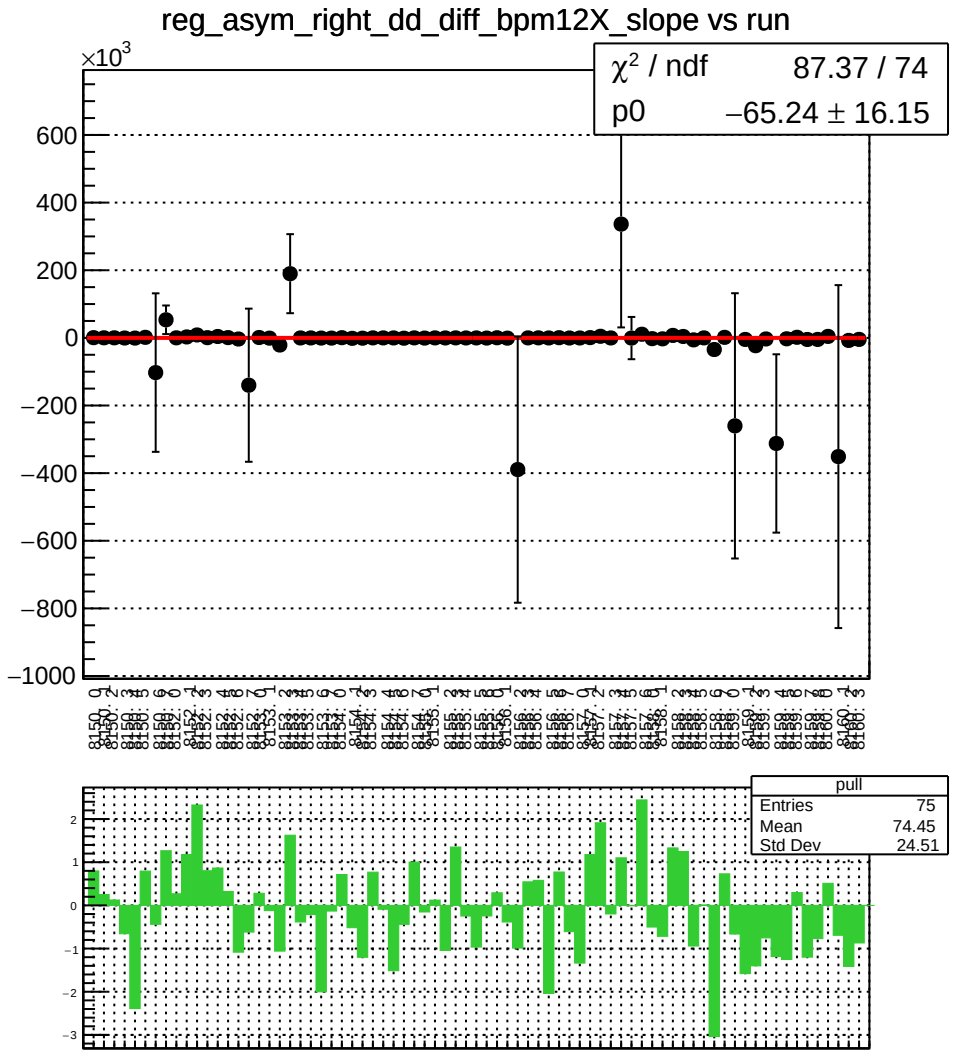

pull1D
Entries 66
Mean 0.04501
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

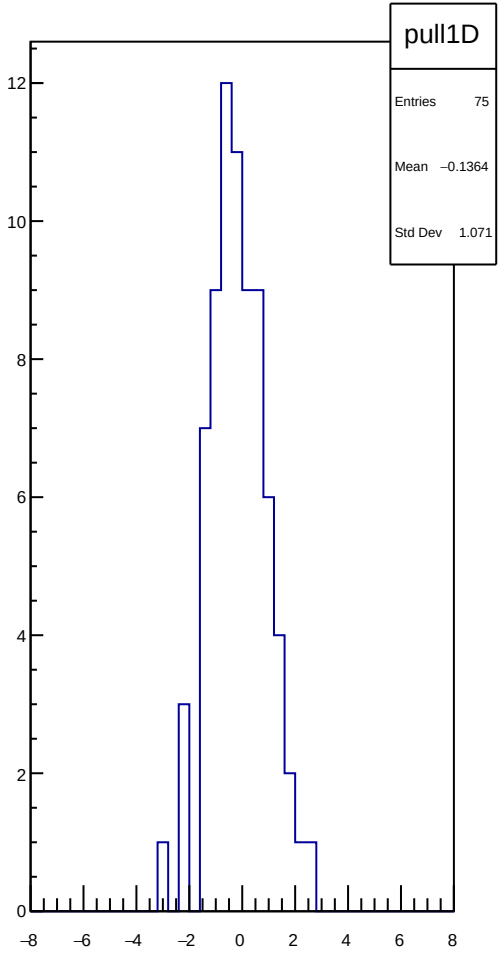

reg_asym_right_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 62.44 / 65
p0 −28.08 ± 172.7
pull
Entries 66
Mean 21.22
Std Dev 16.83

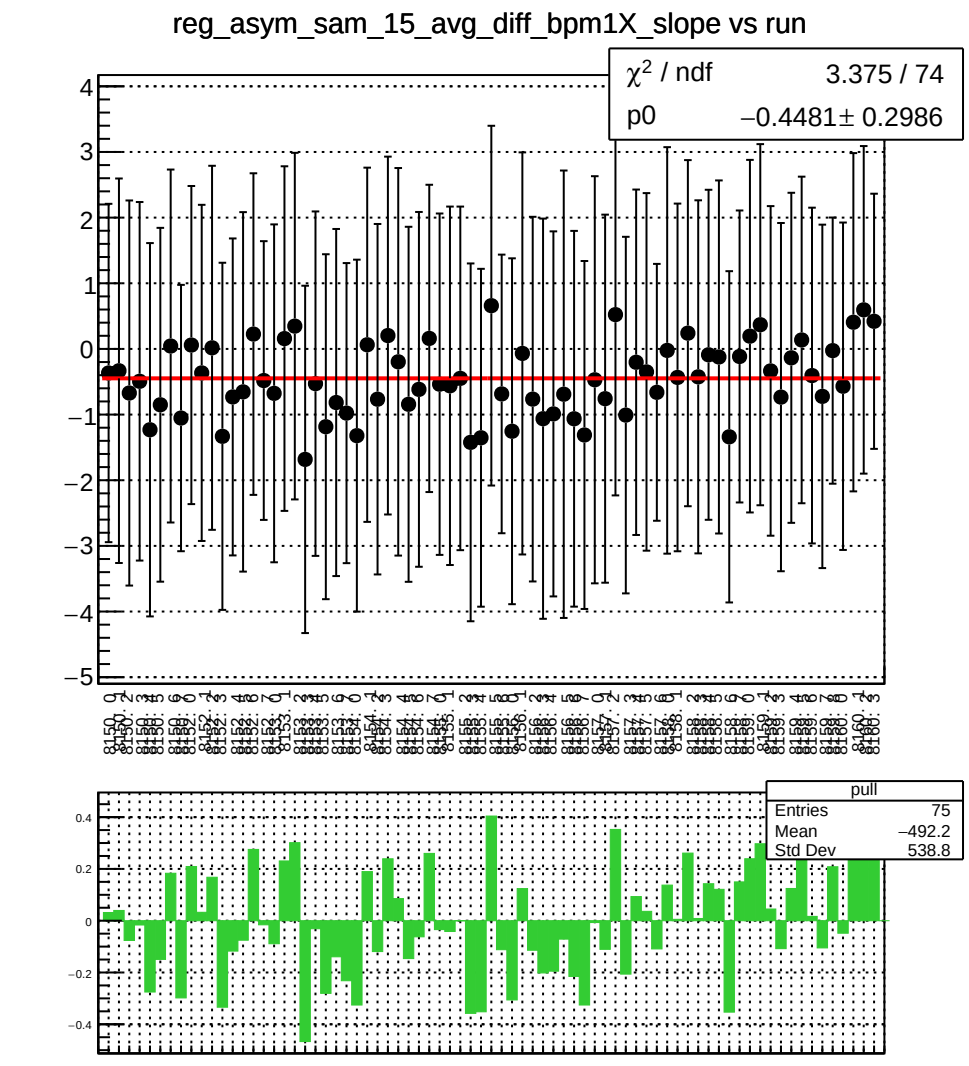

pull1D
Entries 66
Mean 0.2254
Std Dev 0.9462

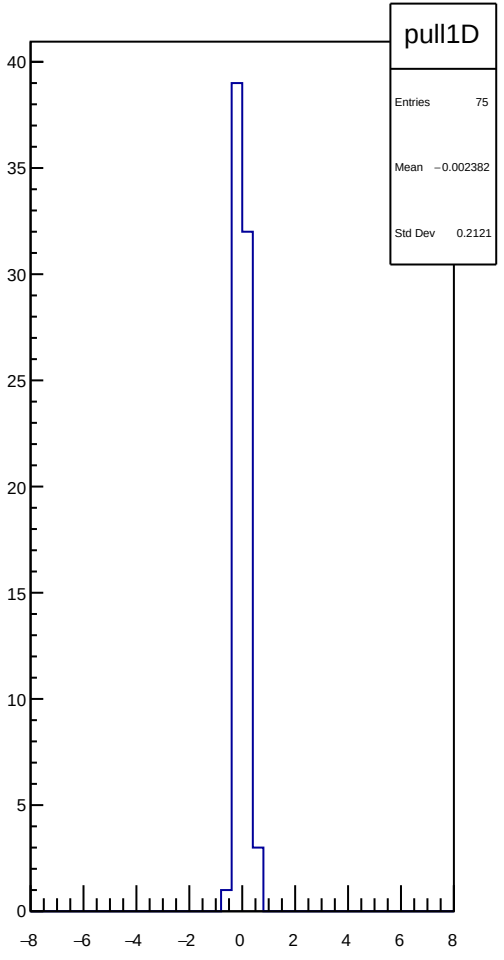

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.6 / 65
p0 −506 ± 350.2
×10³
500
0
−500
−1000
−1500
pull
Entries 66
Mean 20.81
Std Dev 51.32
2
1
0
−1
−2
−3

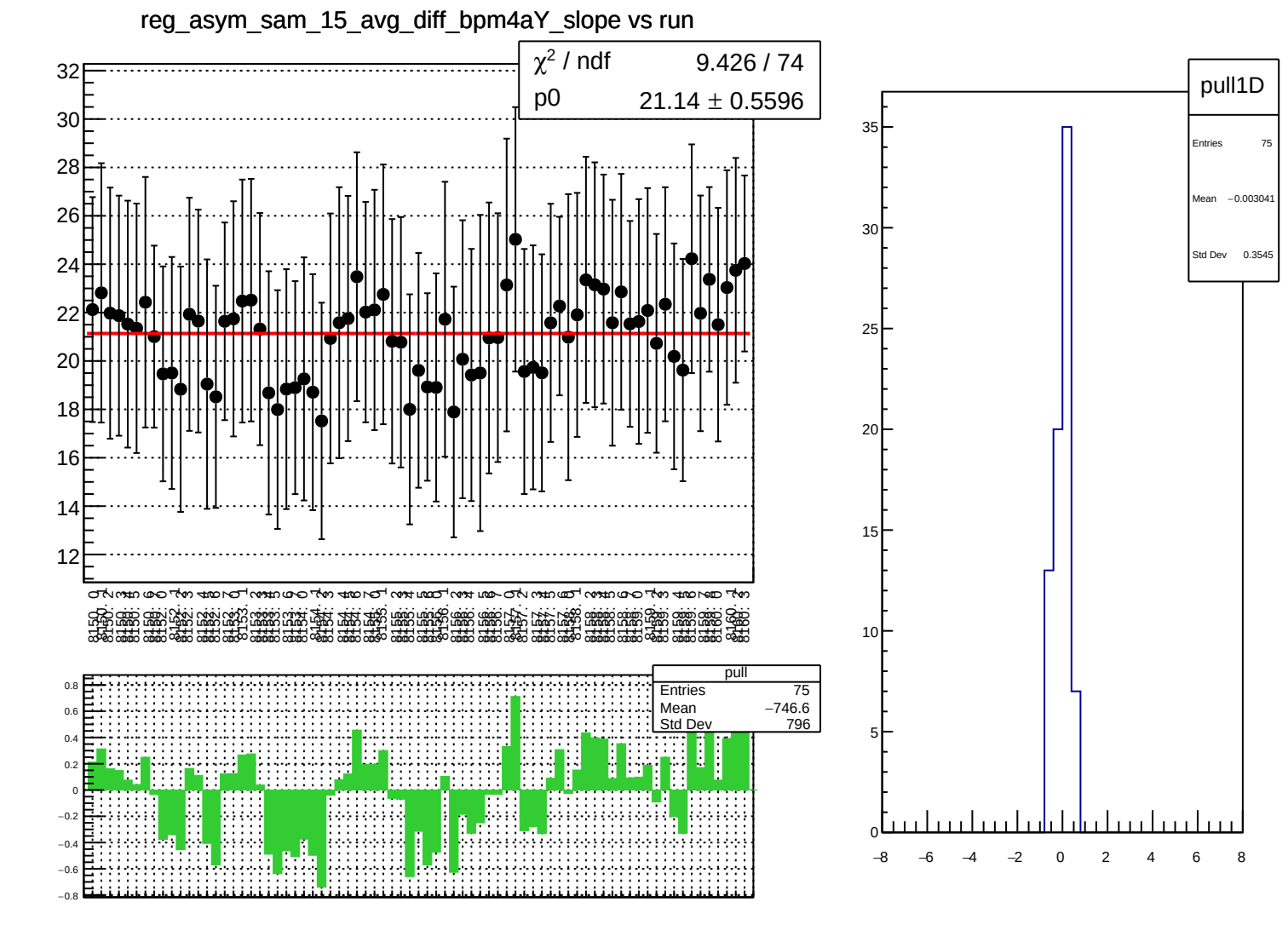

pull1D
Entries 66
Mean −0.03238
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

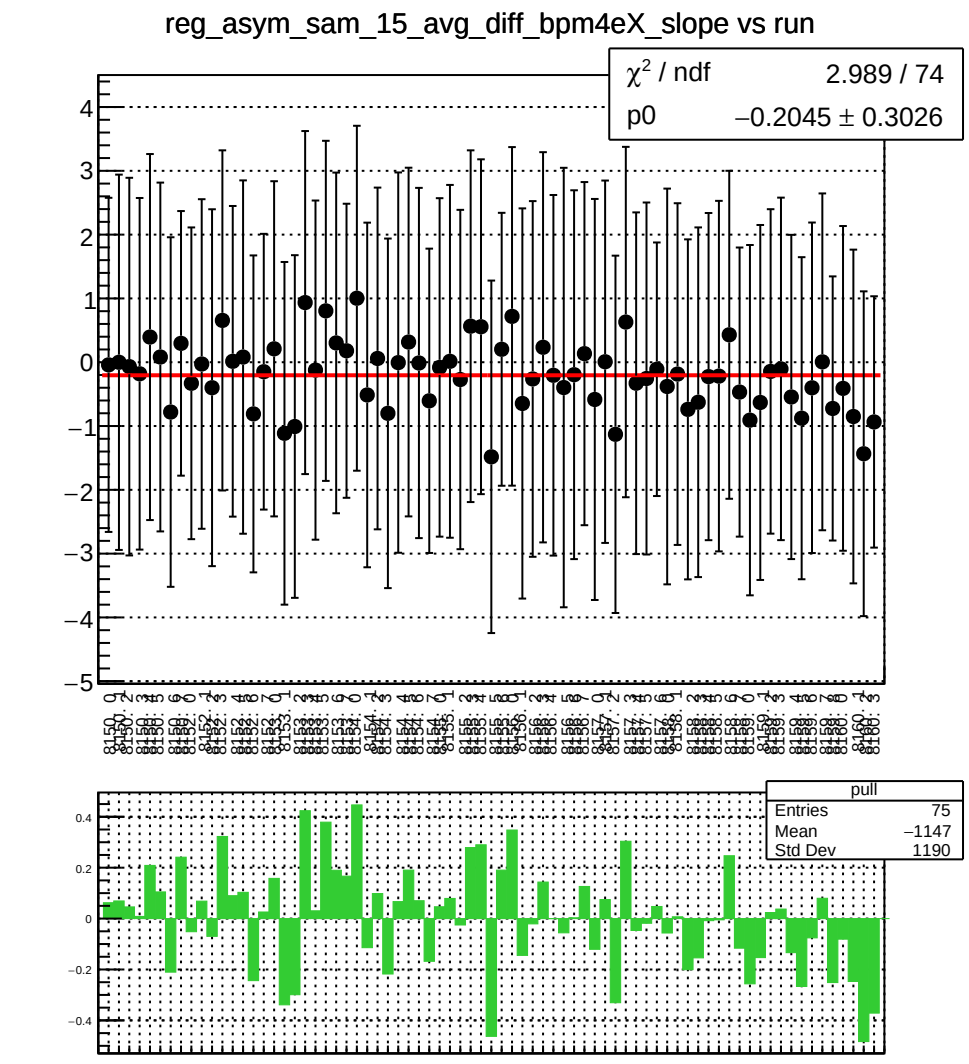

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 87.37 / 74
p0 −65.24 ± 16.15
pull
Entries 75
Mean 74.45
Std Dev 24.51

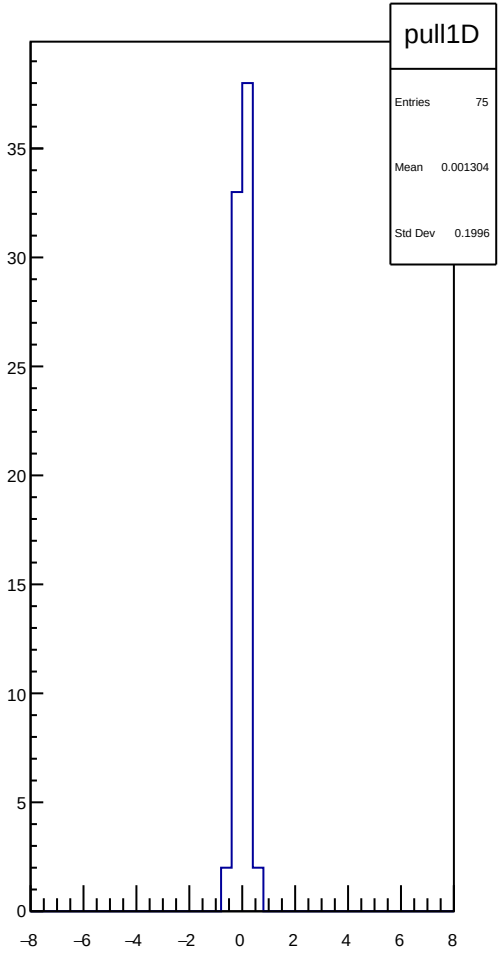

pull1D
Entries 75
Mean −0.1364
Std Dev 1.071

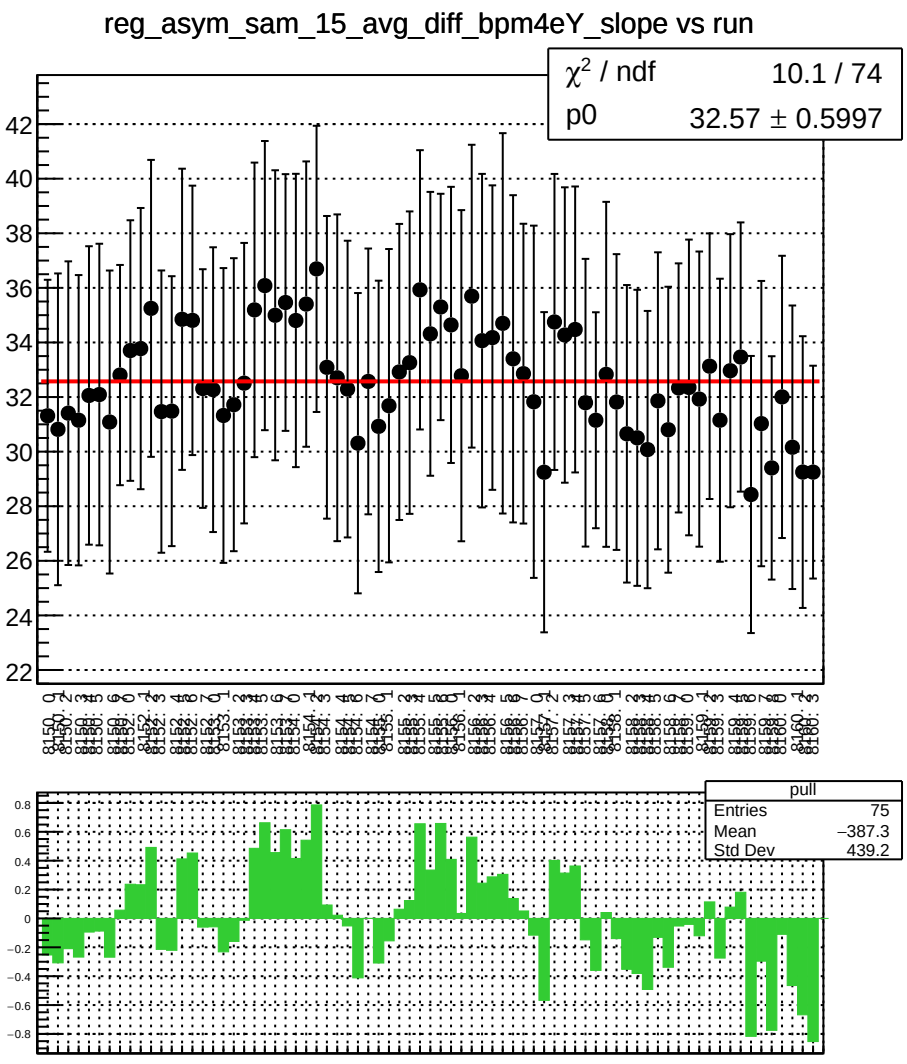

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 3.375 / 74
p0 −0.4481± 0.2986
pull
Entries 75
Mean −492.2
Std Dev 538.8

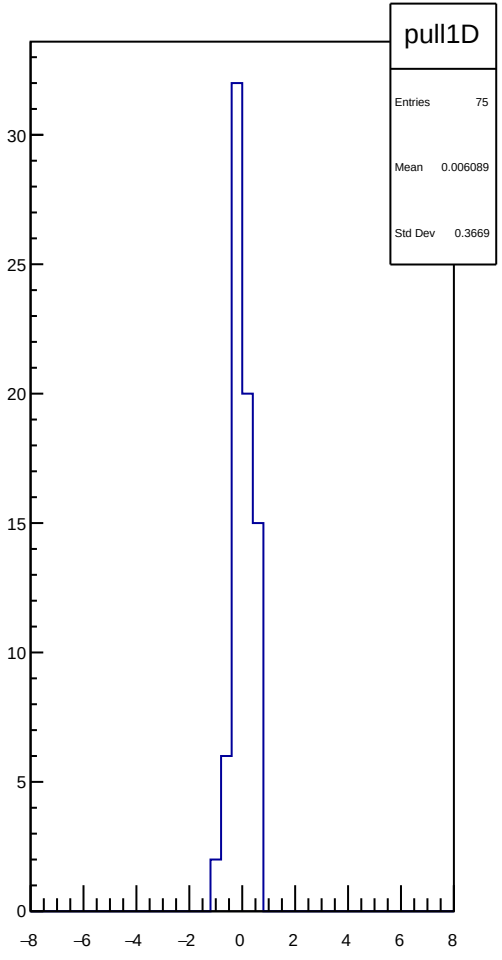

pull1D
Entries 75
Mean −0.002382
Std Dev 0.2121

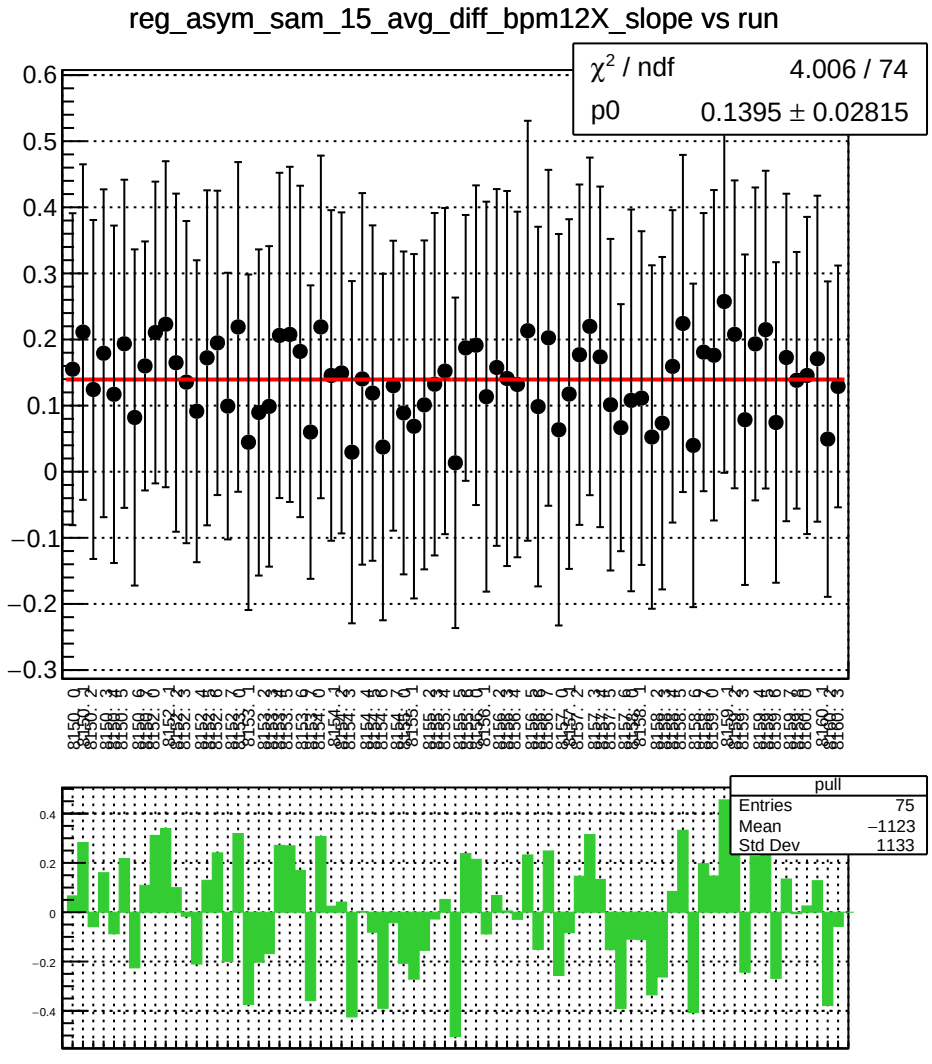

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.426 / 74
p0 21.14 ± 0.5596
pull
Entries 75
Mean −746.6
Std Dev 796
pull1D
Entries 75
Mean −0.003041
Std Dev 0.3545

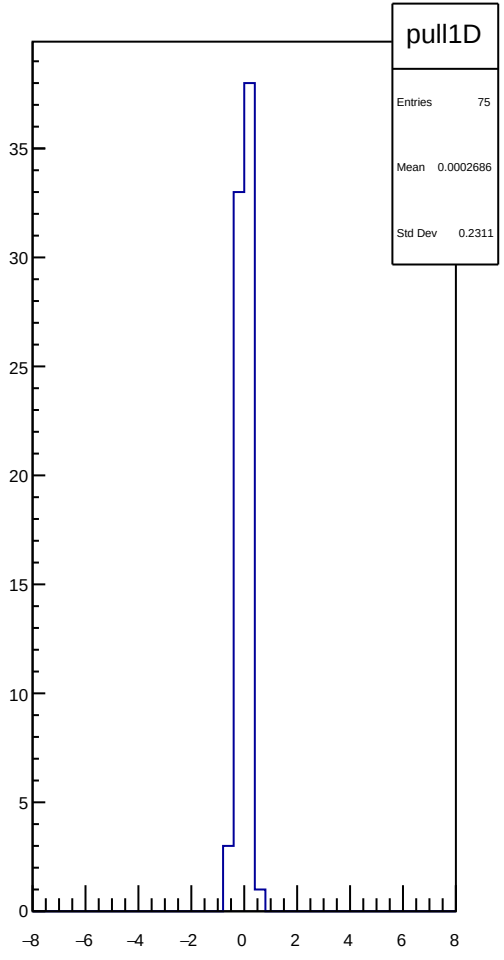

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.989 / 74
p0 −0.2045 ± 0.3026
pull
Entries 75
Mean −1147
Std Dev 1190

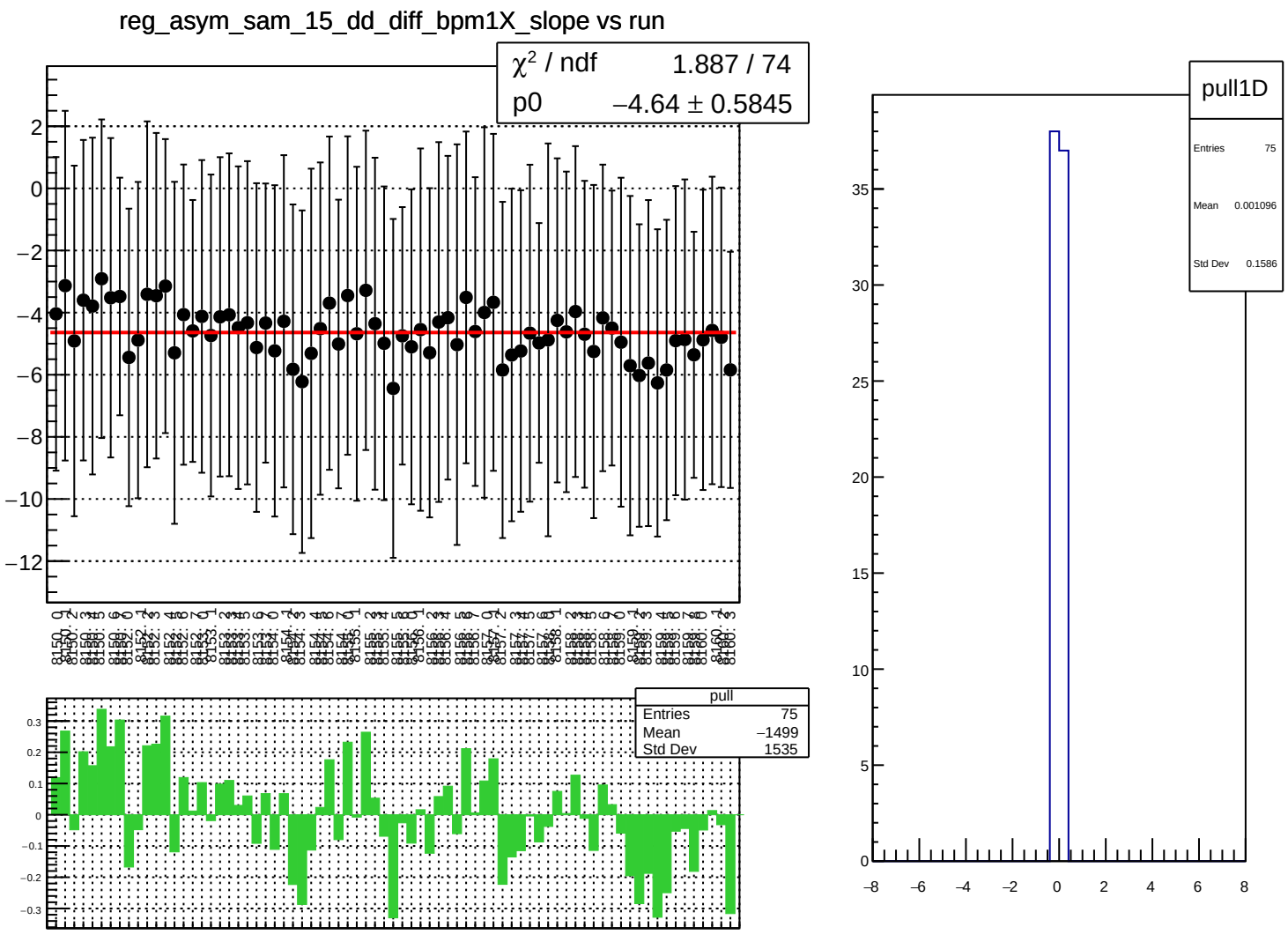

pull1D
Entries 75
Mean 0.001304
Std Dev 0.1996

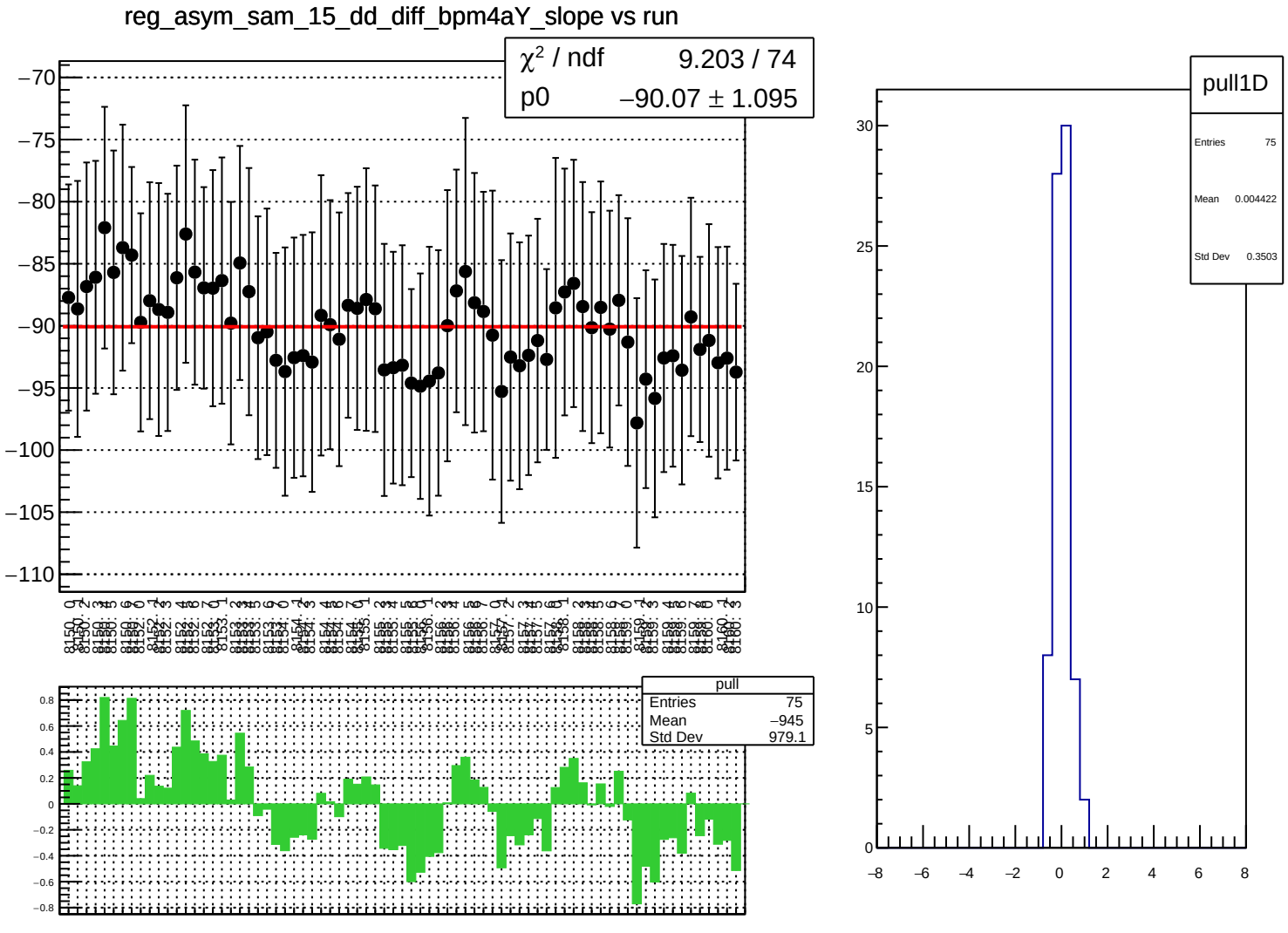

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.1 / 74
p0 32.57 ± 0.5997
pull
Entries 75
Mean −387.3
Std Dev 439.2

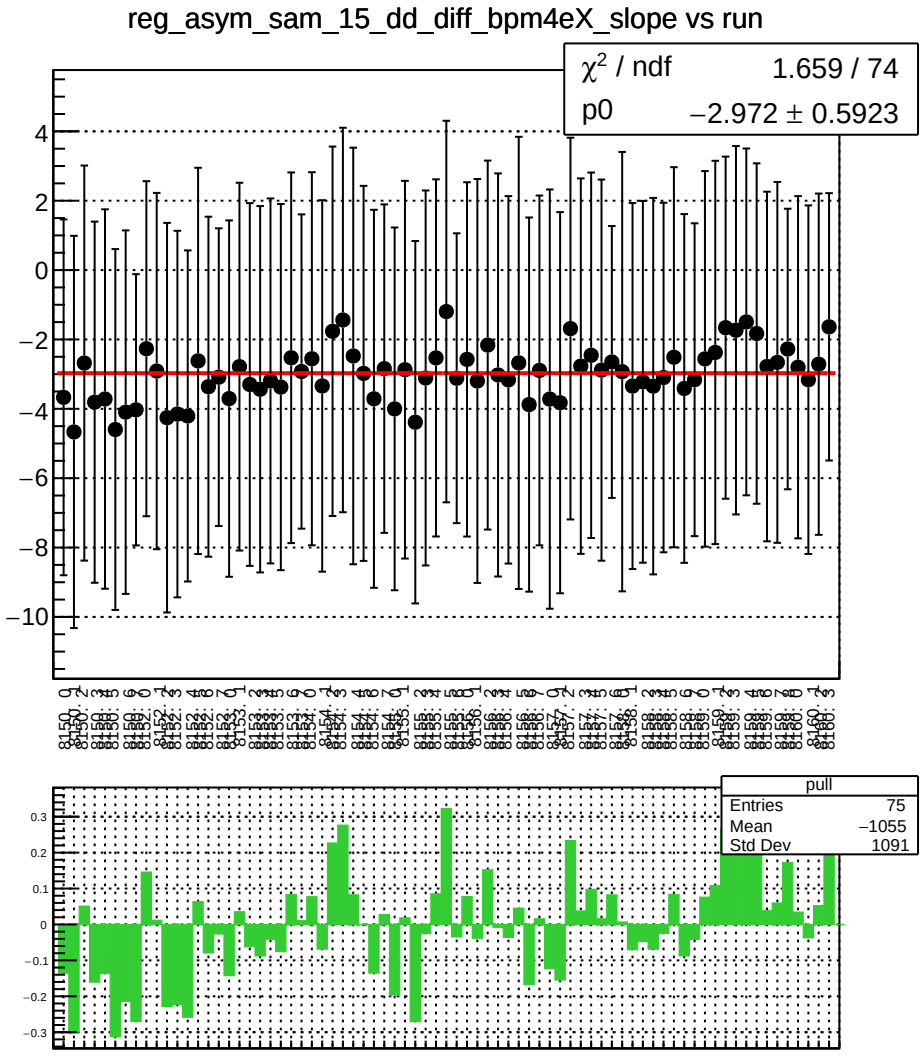

pull1D
Entries 75
Mean 0.006089
Std Dev 0.3669

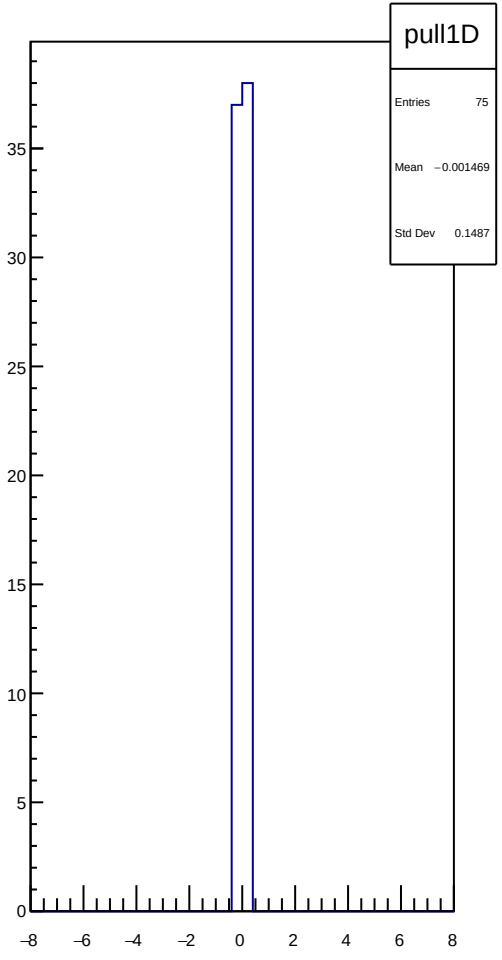

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 4.006 / 74
p0 0.1395 ± 0.02815
pull
Entries 75
Mean −1123
Std Dev 1133

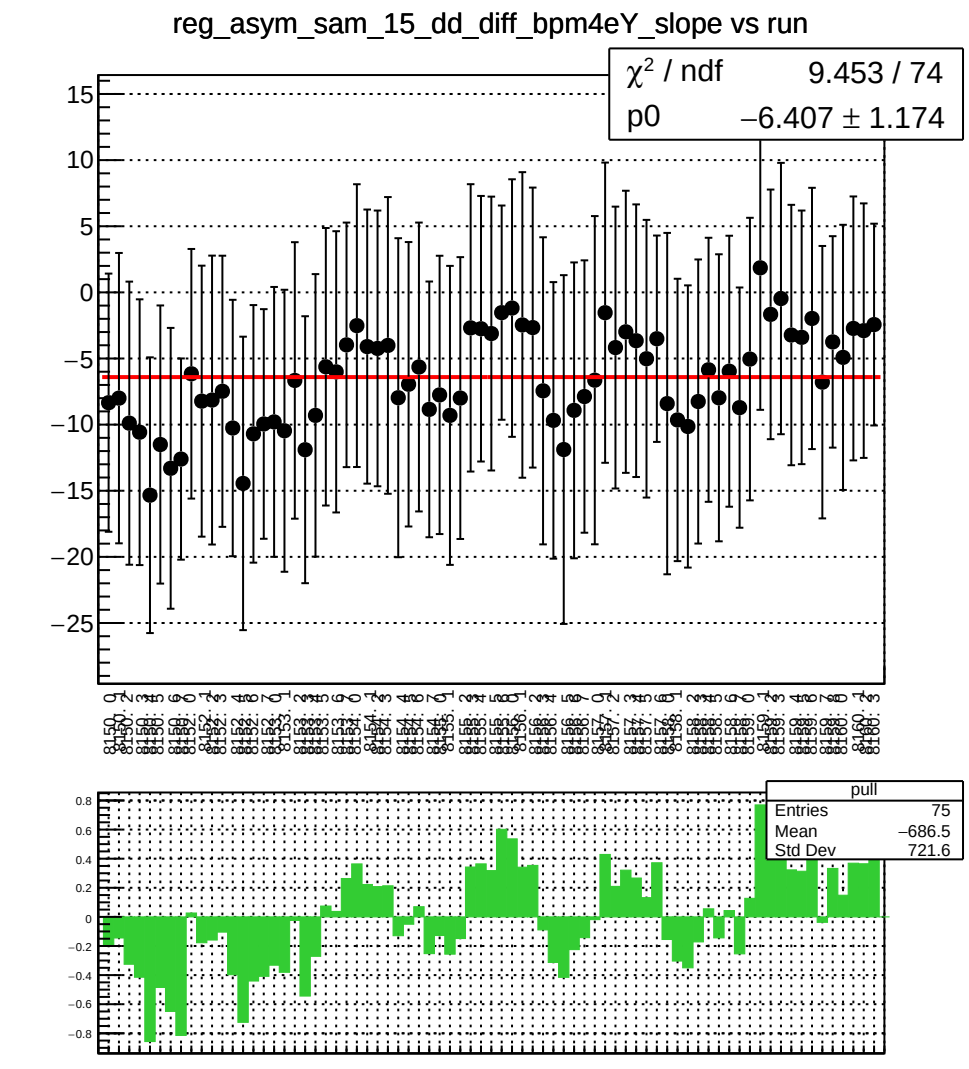

pull1D
Entries 75
Mean 0.0002686
Std Dev 0.2311

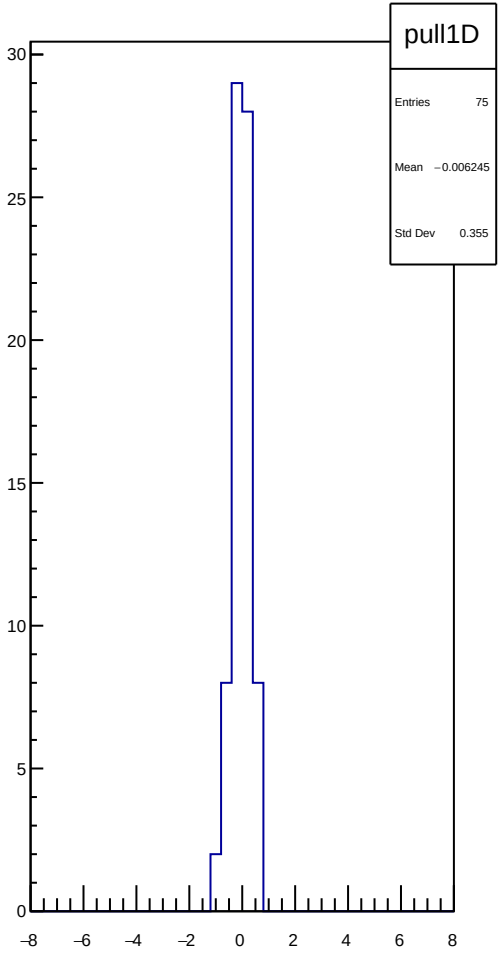

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 1.887 / 74
p0 −4.64 ± 0.5845
pull
Entries 75
Mean −1499
Std Dev 1535
pull1D
Entries 75
Mean 0.001096
Std Dev 0.1586

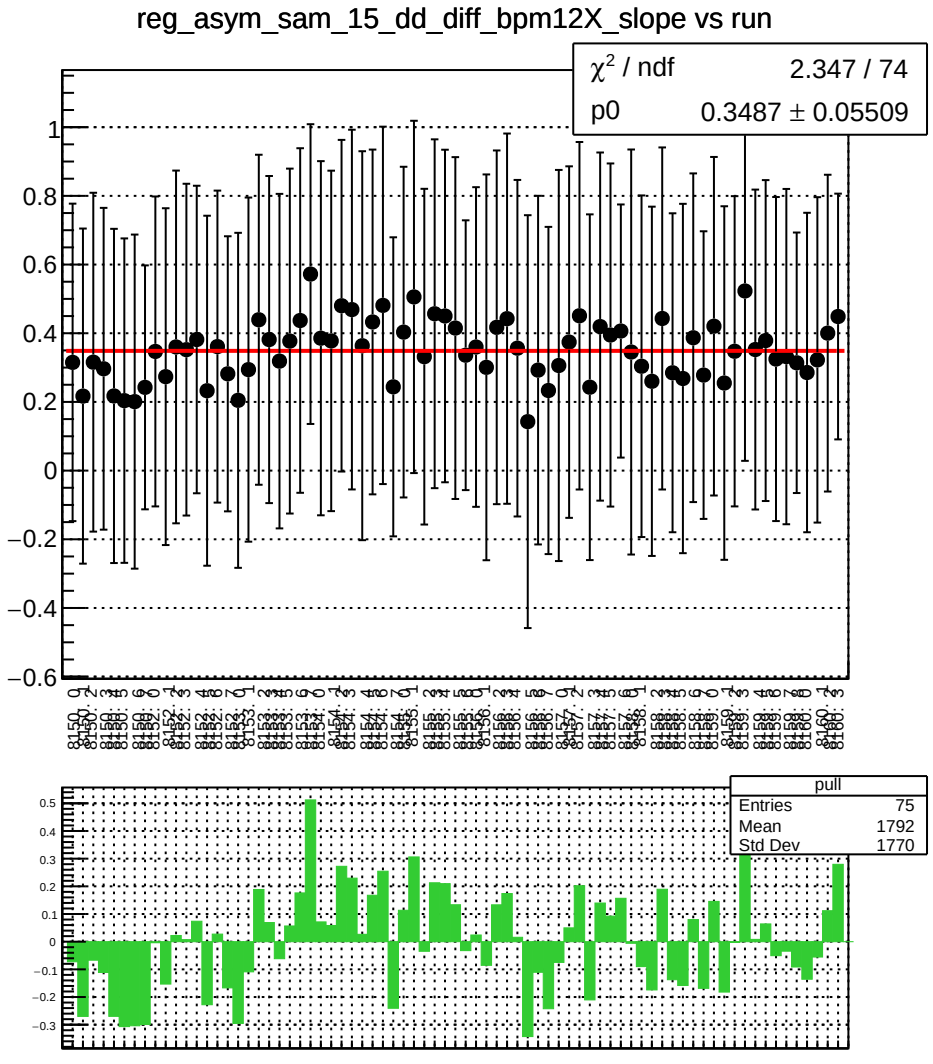

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.203 / 74
p0 −90.07 ± 1.095
pull
Entries 75
Mean −945
Std Dev 979.1
pull1D
Entries 75
Mean 0.004422
Std Dev 0.3503

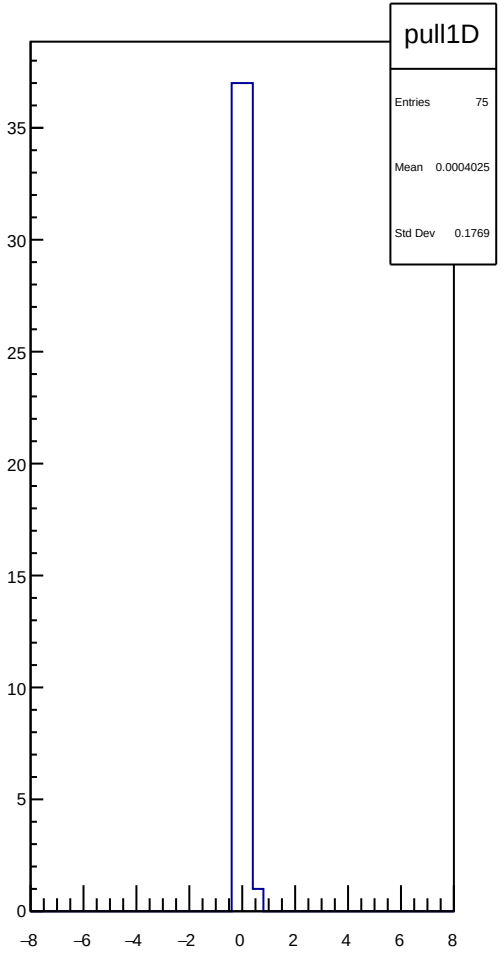

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.659 / 74
p0 −2.972 ± 0.5923
pull
Entries 75
Mean −1055
Std Dev 1091

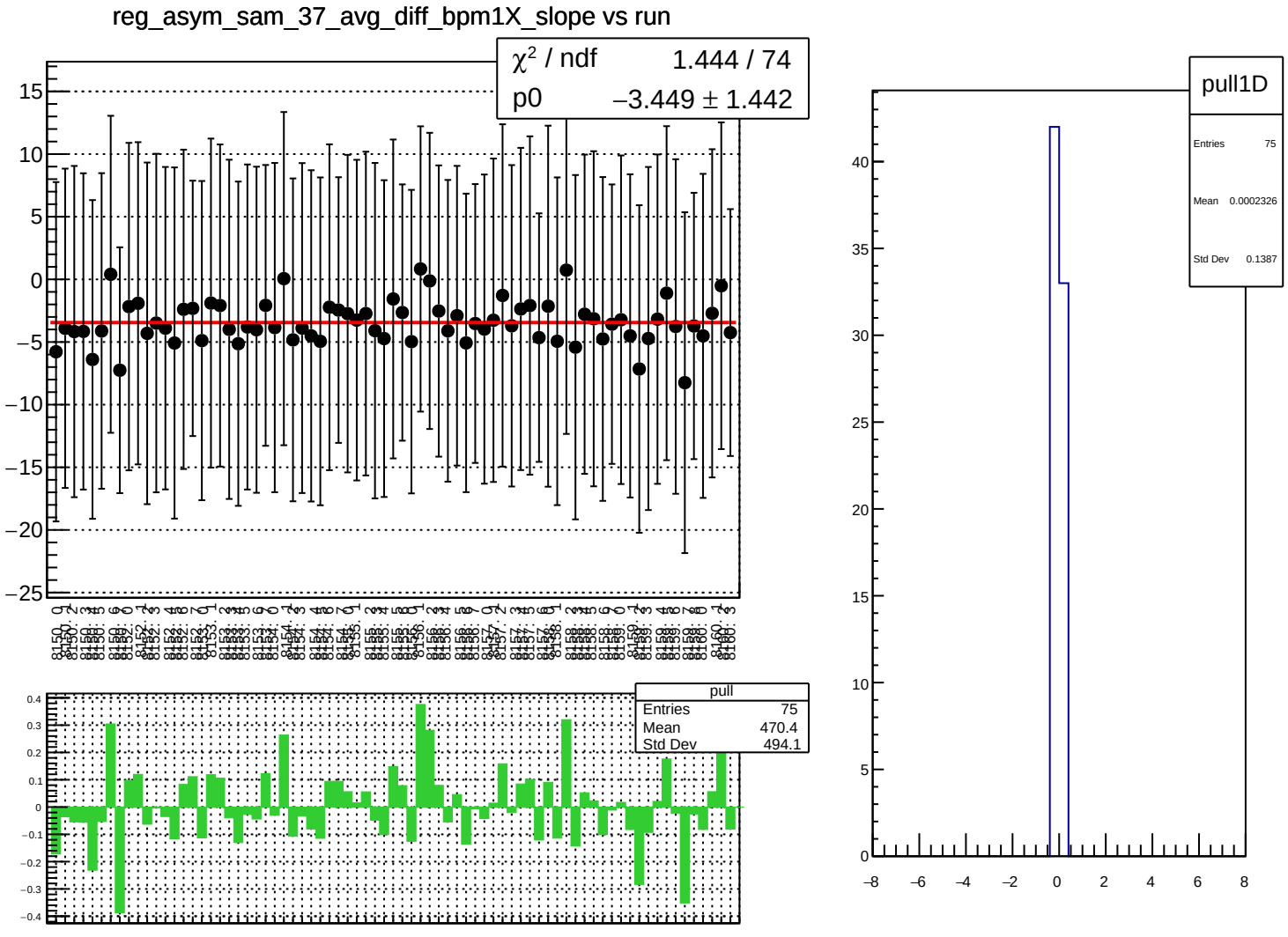

pull1D
Entries 75
Mean −0.001469
Std Dev 0.1487

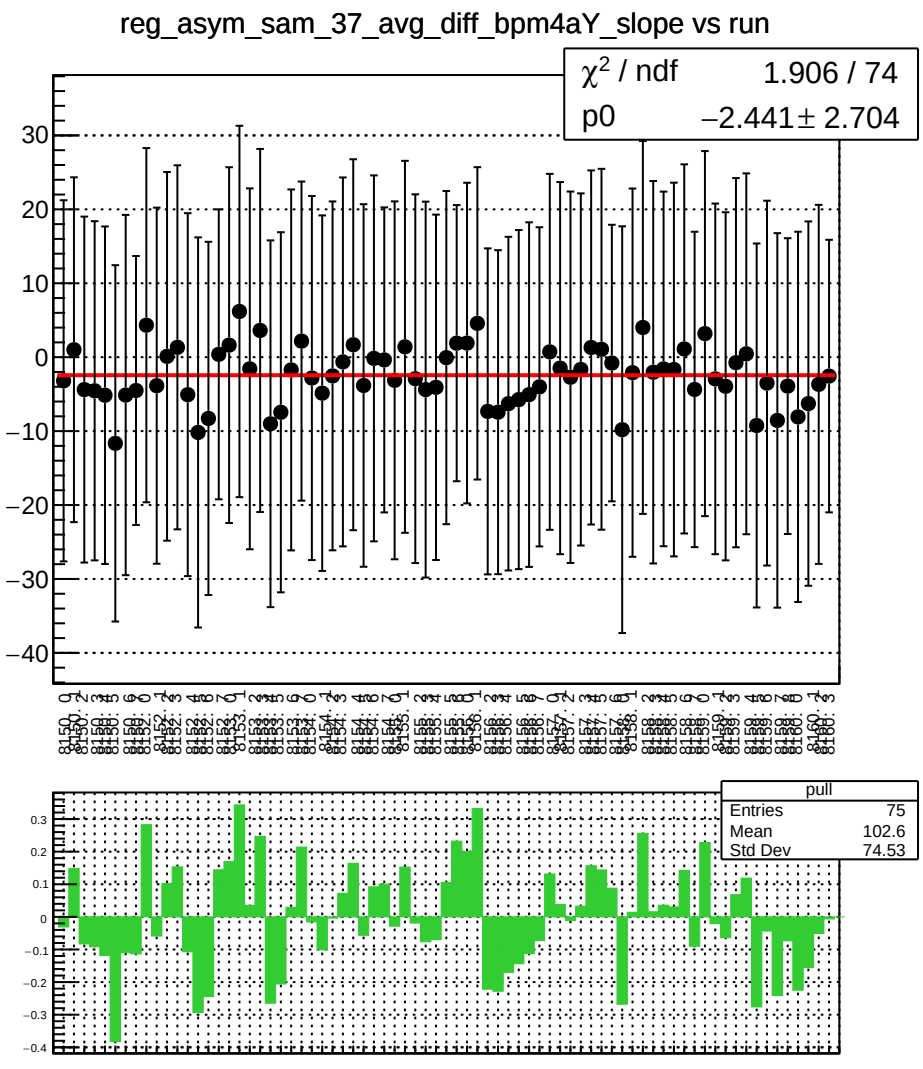

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.453 / 74
p0 −6.407 ± 1.174
pull
Entries 75
Mean −686.5
Std Dev 721.6

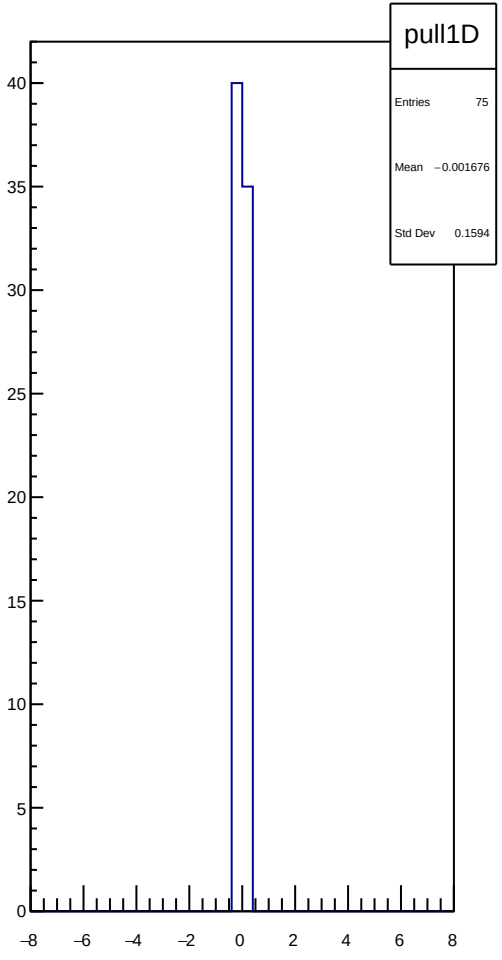

pull1D
Entries 75
Mean −0.006245
Std Dev 0.355

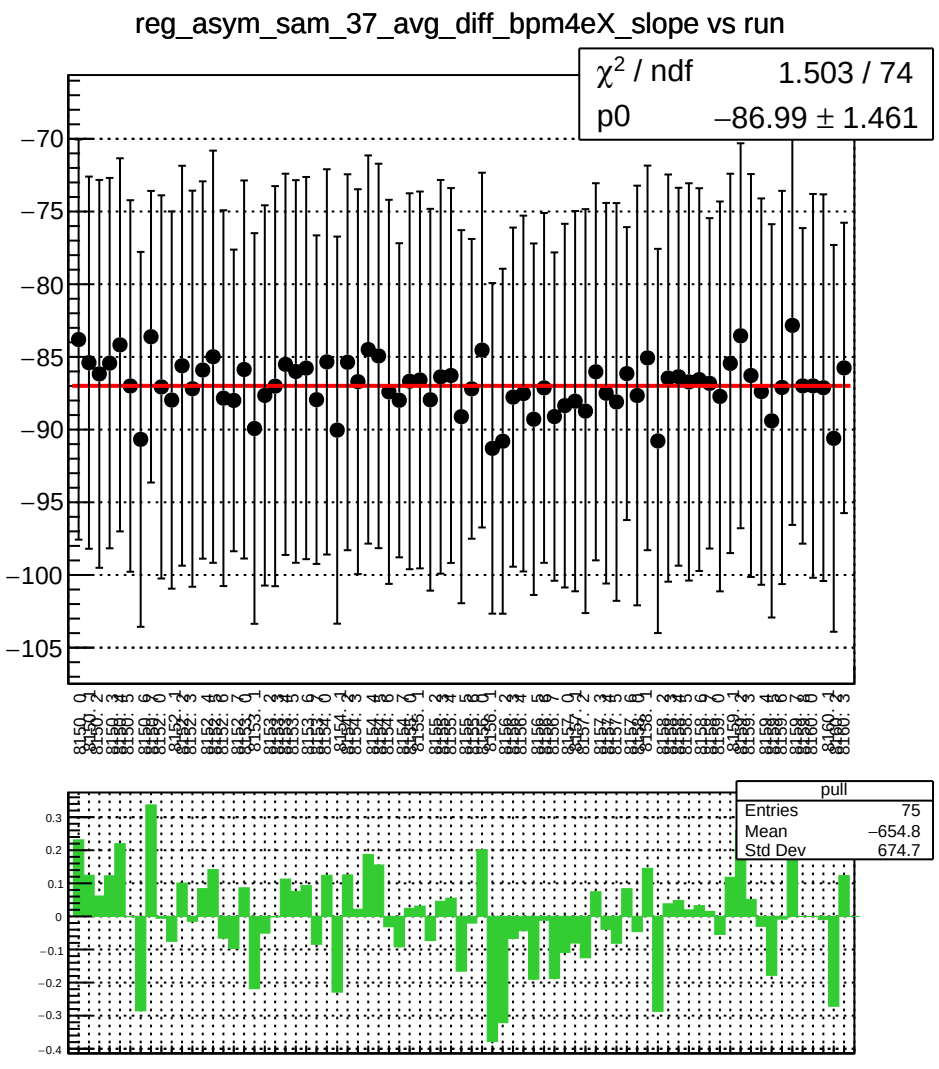

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 2.347 / 74
p0 0.3487 ± 0.05509
pull
Entries 75
Mean 1792
Std Dev 1770

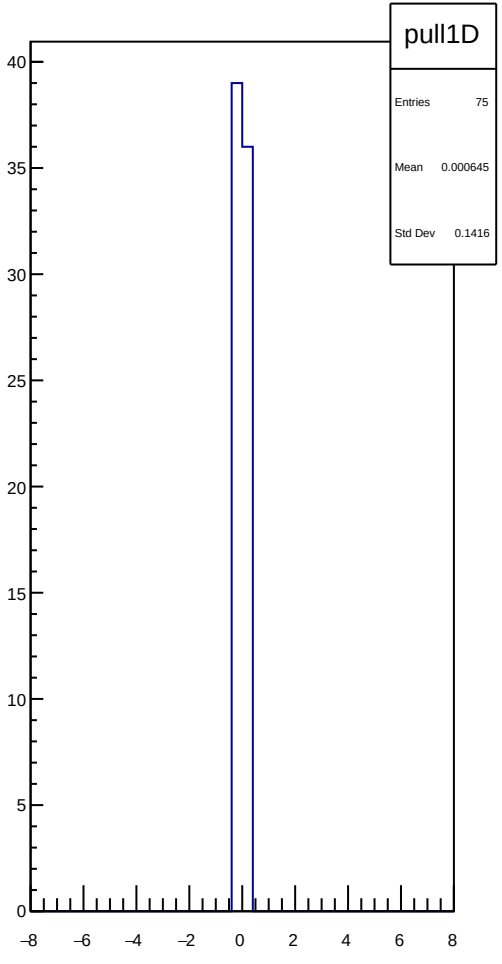

pull1D
Entries 75
Mean 0.0004025
Std Dev 0.1769

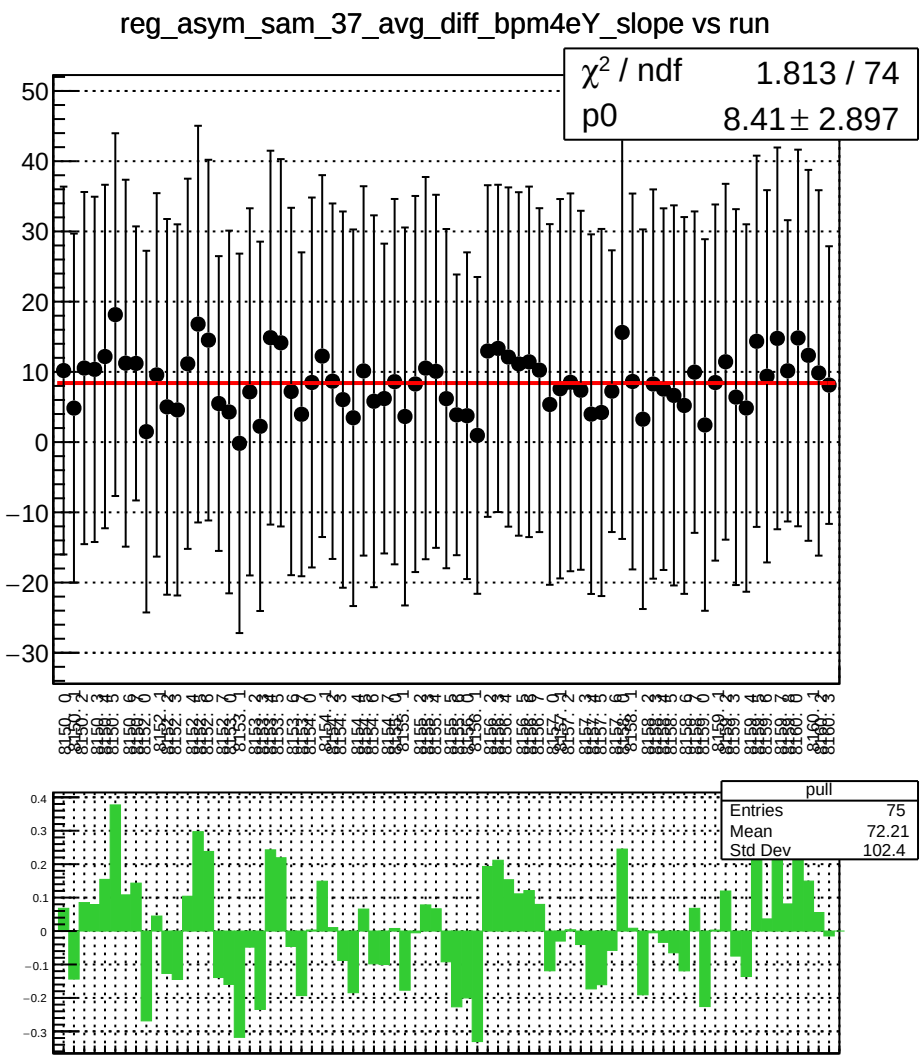

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 1.444 / 74
p0 −3.449 ± 1.442
pull
Entries 75
Mean 470.4
Std Dev 494.1
pull1D
Entries 75
Mean 0.0002326
Std Dev 0.1387

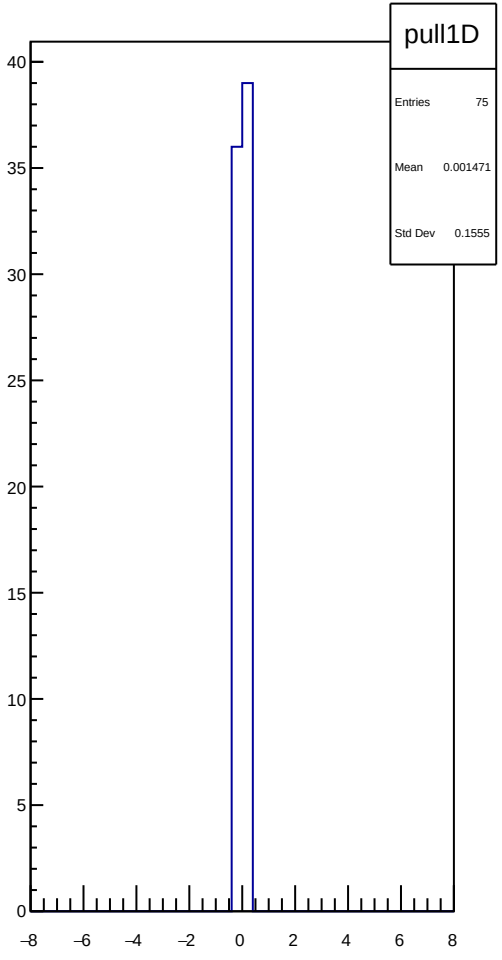

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.906 / 74
p0 −2.441± 2.704
pull
Entries 75
Mean 102.6
Std Dev 74.53

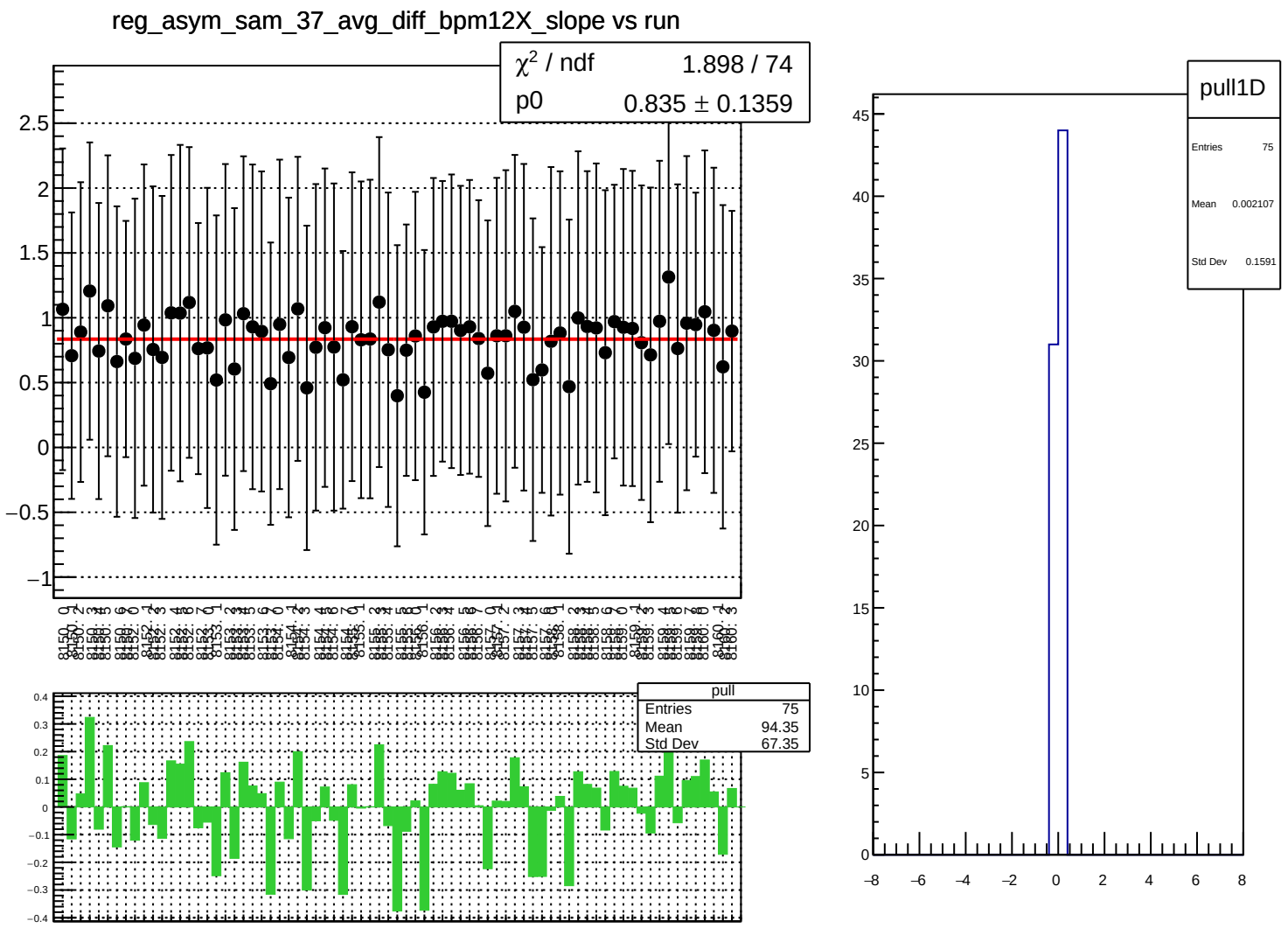

pull1D
Entries 75
Mean −0.001676
Std Dev 0.1594

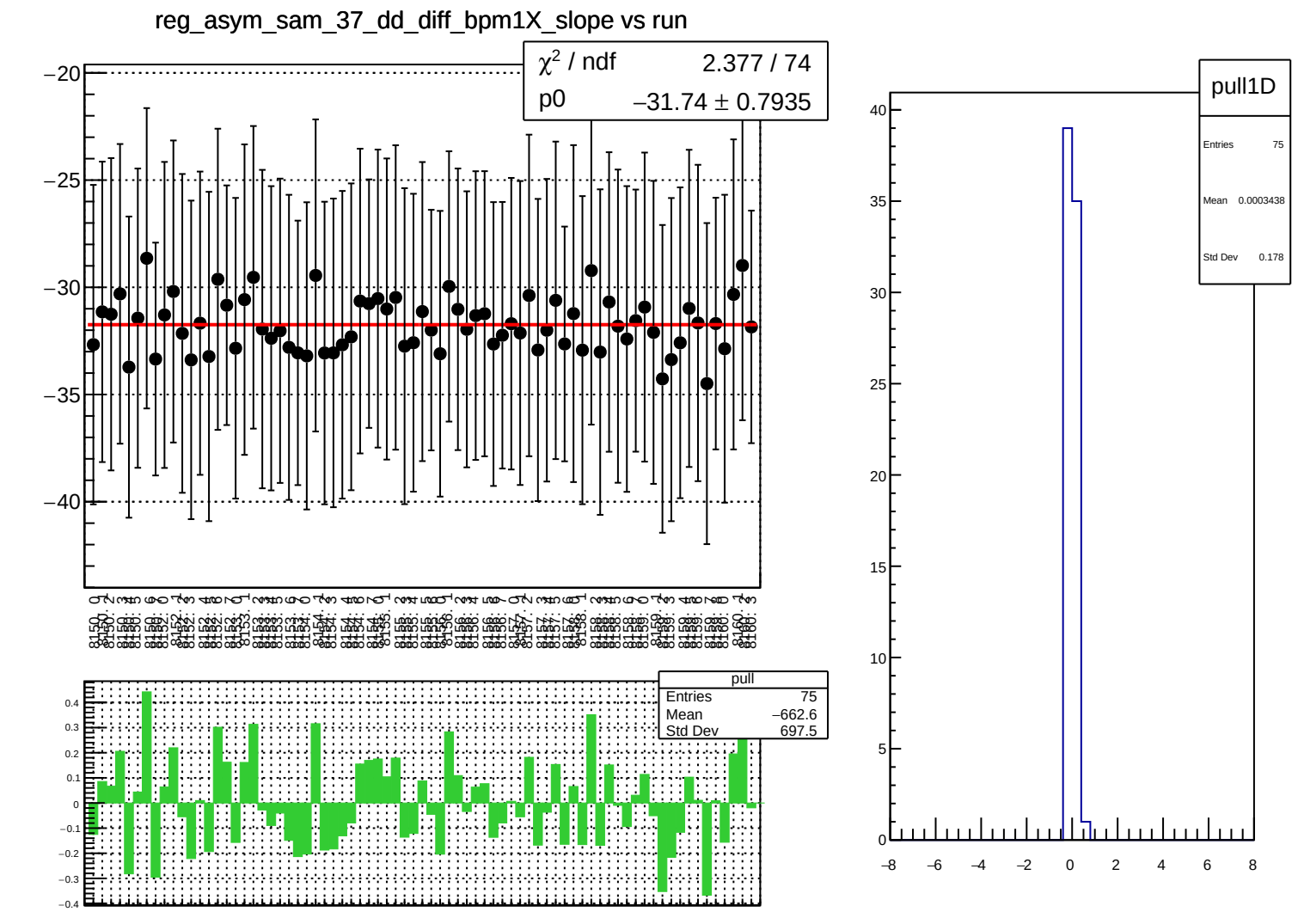

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 1.503 / 74
p0 −86.99 ± 1.461
pull
Entries 75
Mean −654.8
Std Dev 674.7

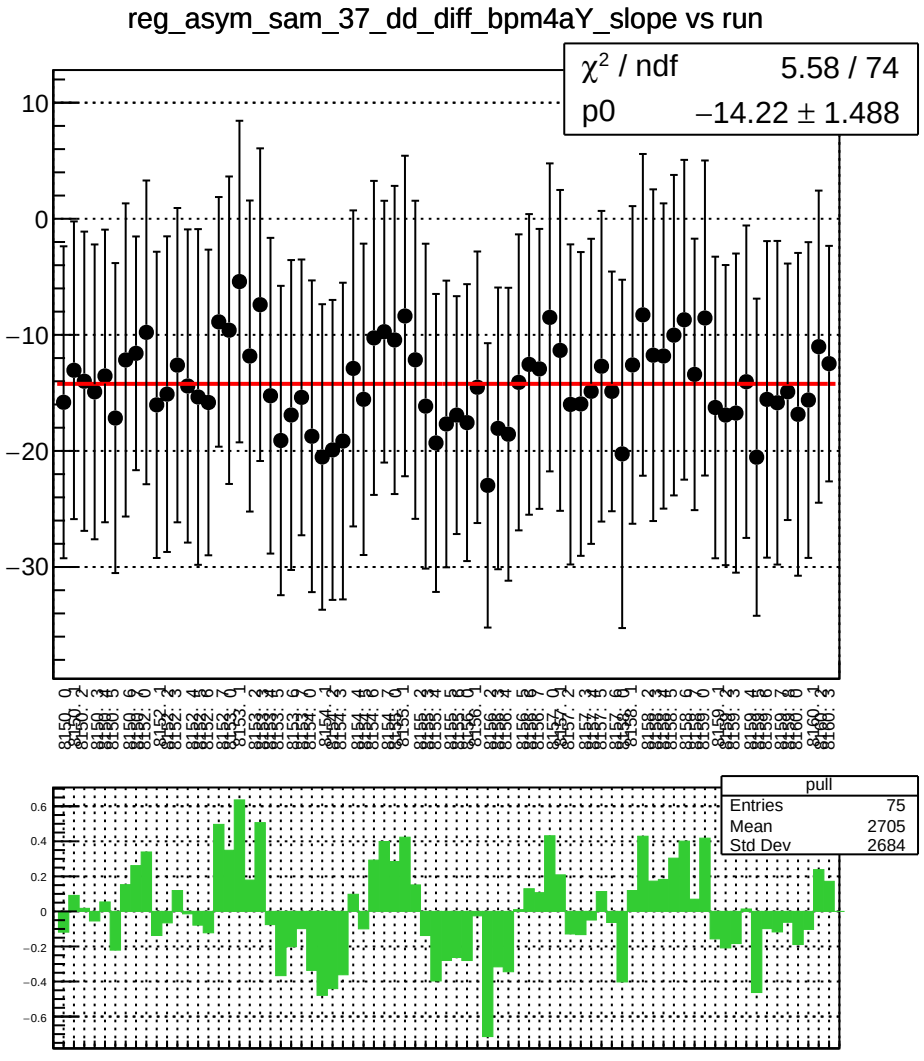

pull1D
Entries 75
Mean 0.000645
Std Dev 0.1416

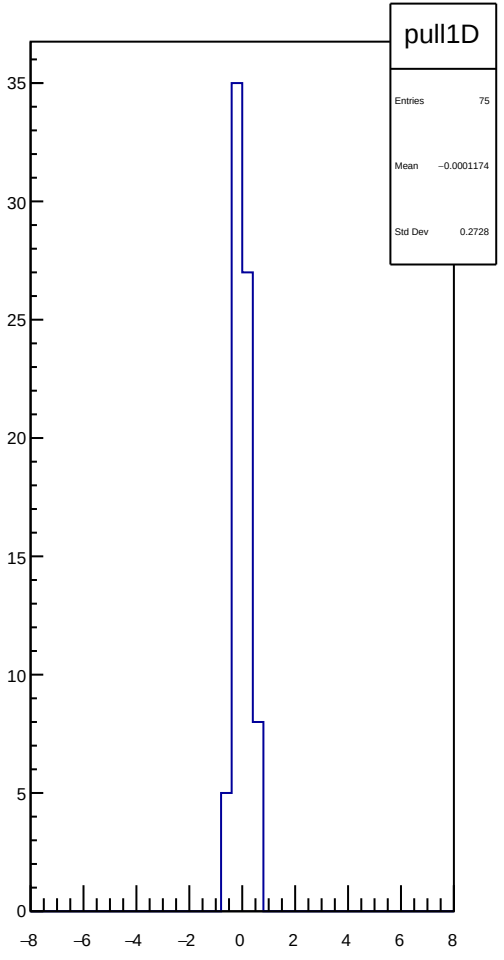

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.813 / 74
p0 8.41 ± 2.897
pull
Entries 75
Mean 72.21
Std Dev 102.4

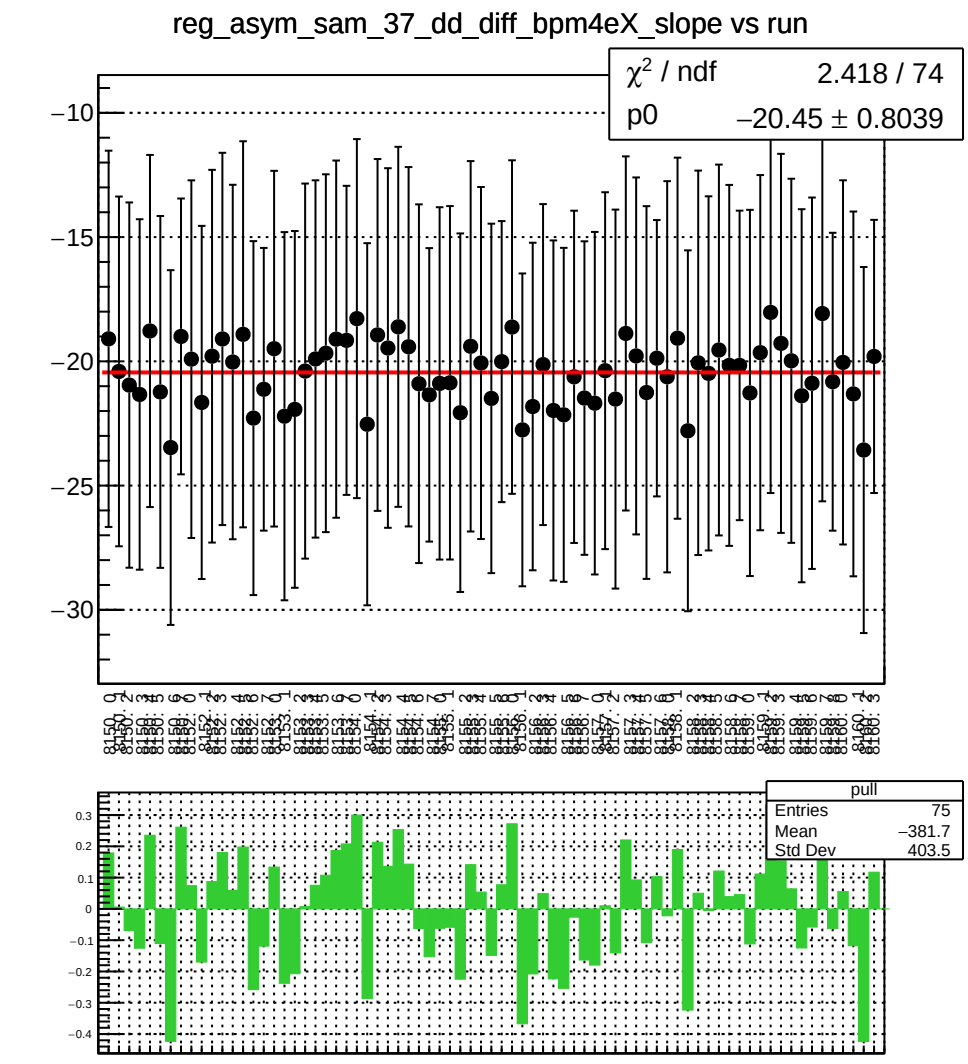

pull1D
Entries 75
Mean 0.001471
Std Dev 0.1555

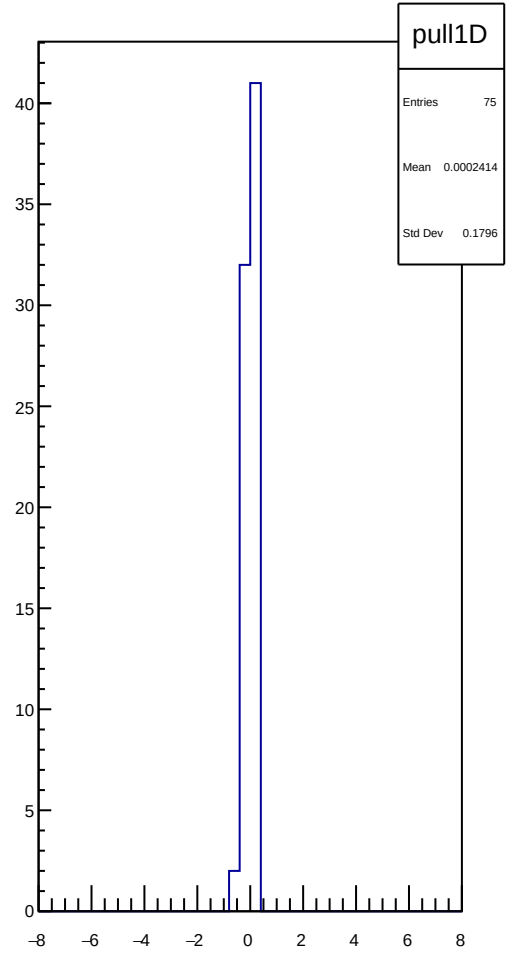

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 1.898 / 74
p0 0.835 ± 0.1359
pull
Entries 75
Mean 94.35
Std Dev 67.35
pull1D
Entries 75
Mean 0.002107
Std Dev 0.1591

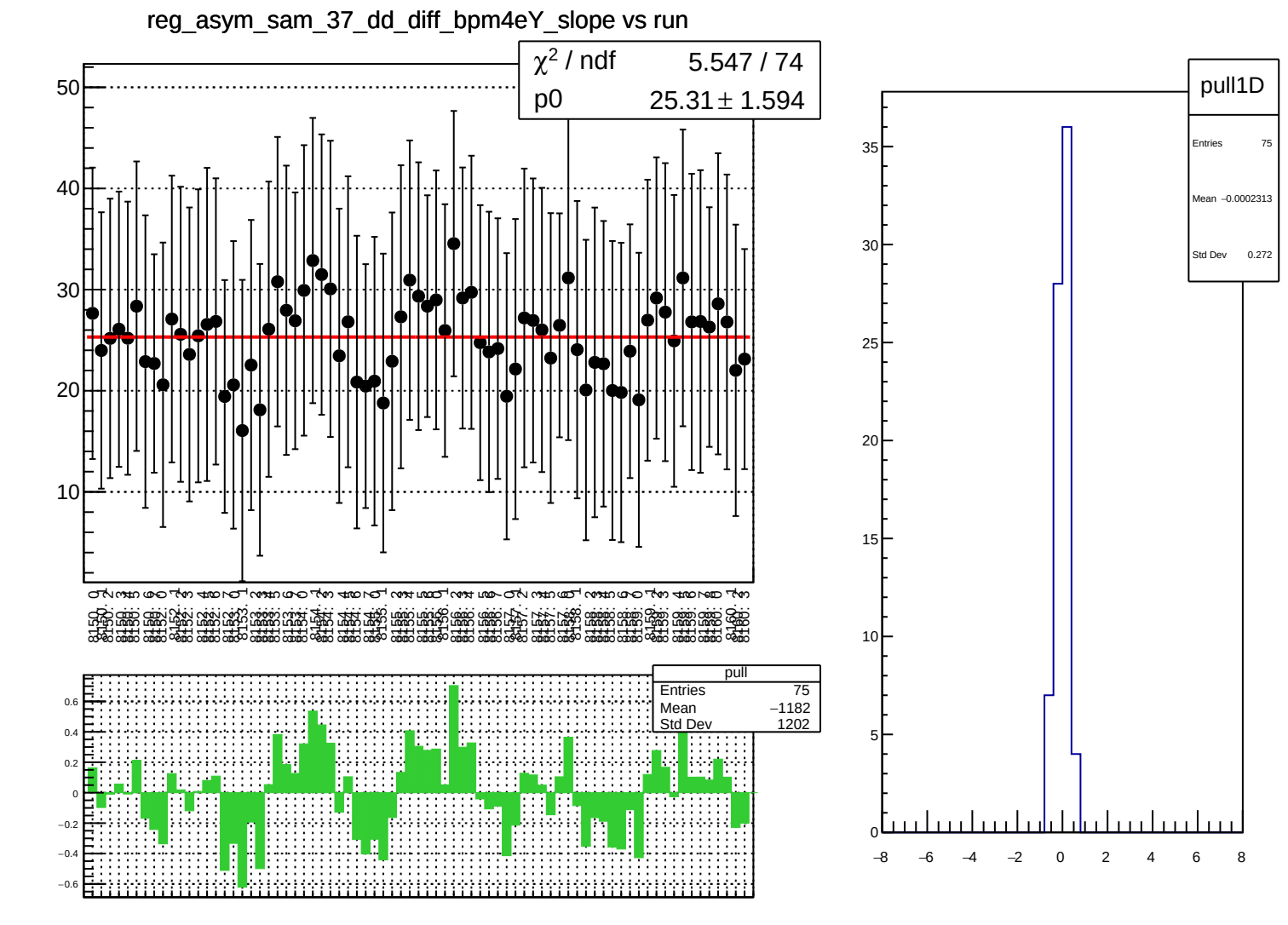

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 2.377 / 74
p0 −31.74 ± 0.7935
pull
Entries 75
Mean −662.6
Std Dev 697.5
pull1D
Entries 75
Mean 0.0003438
Std Dev 0.178

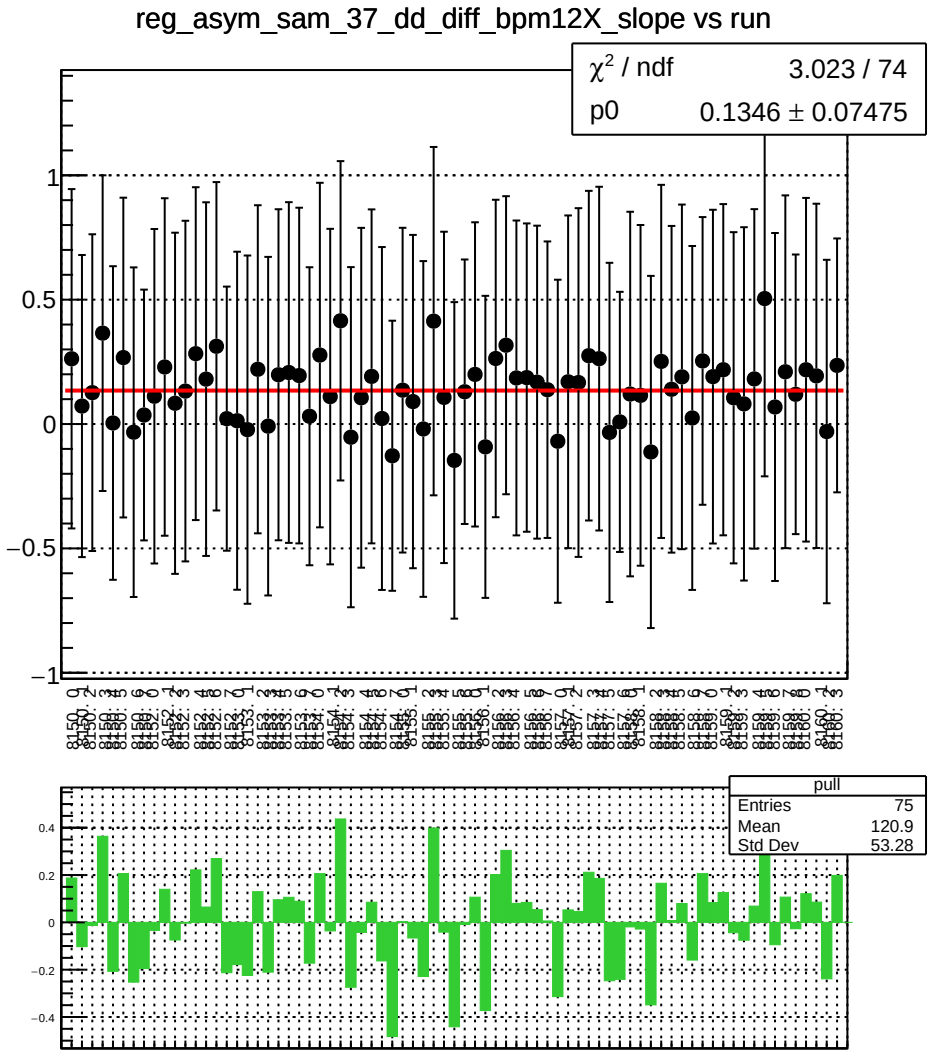

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.58 / 74
p0 −14.22 ± 1.488
pull
Entries 75
Mean 2705
Std Dev 2684

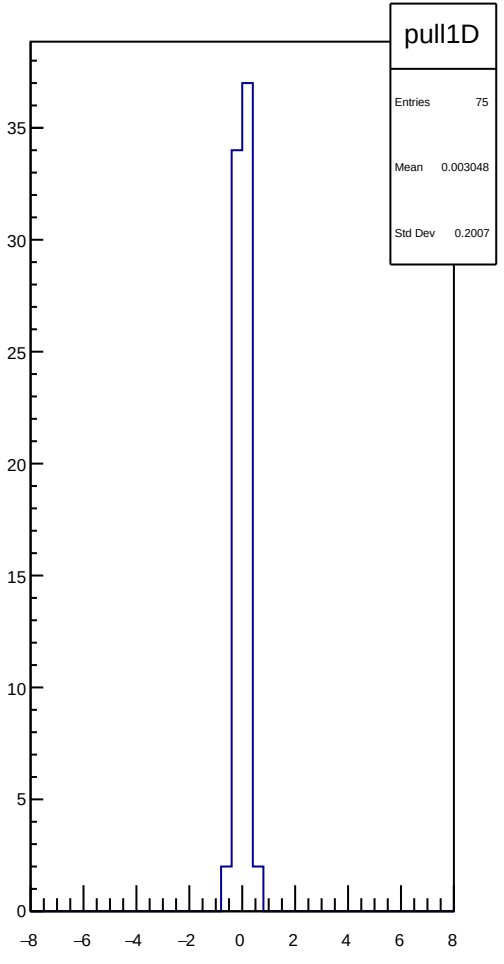

pull1D
Entries 75
Mean −0.0001174
Std Dev 0.2728

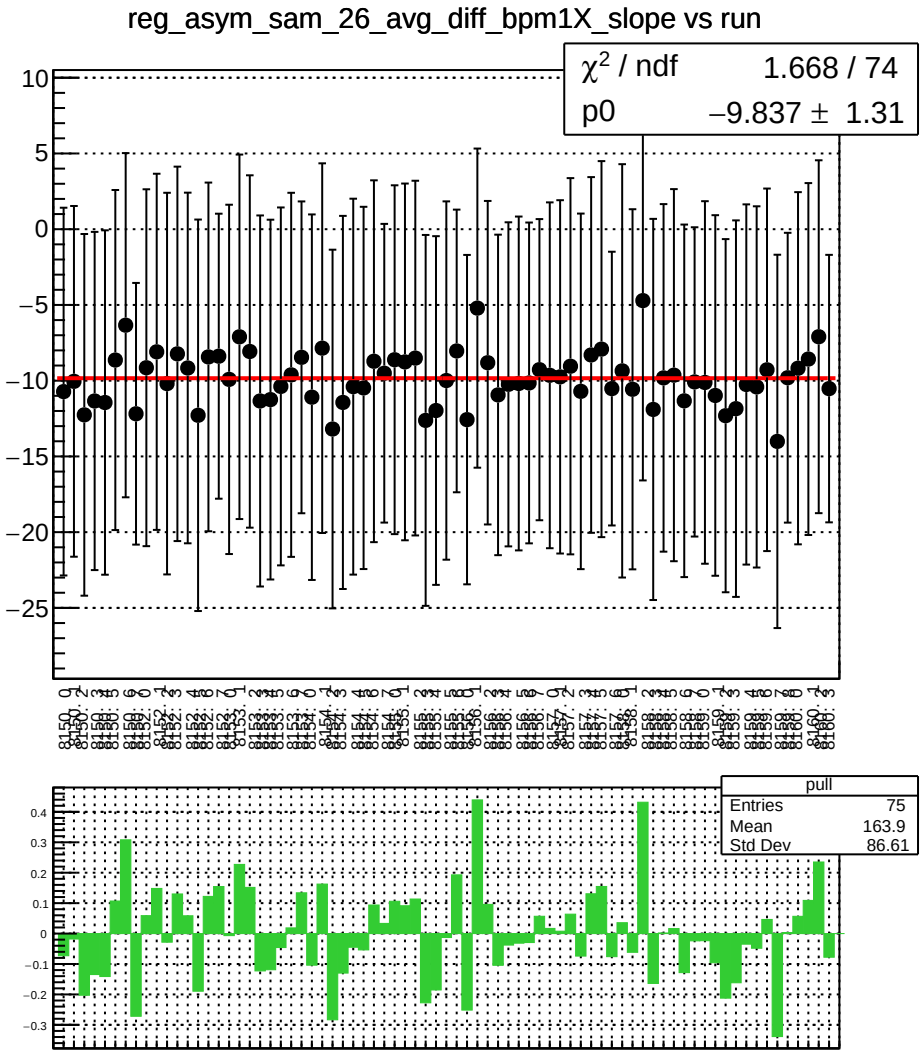

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.418 / 74
p0 −20.45 ± 0.8039
pull
Entries 75
Mean −381.7
Std Dev 403.5

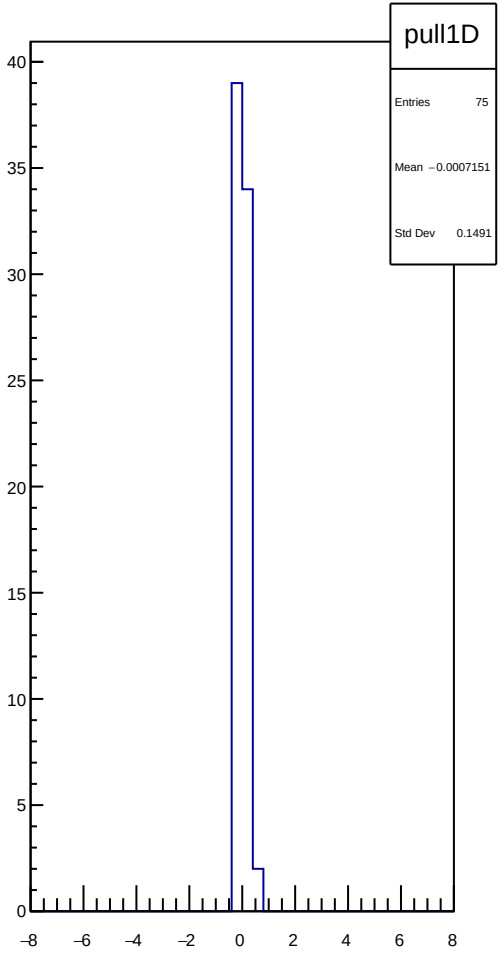

pull1D
Entries 75
Mean 0.0002414
Std Dev 0.1796

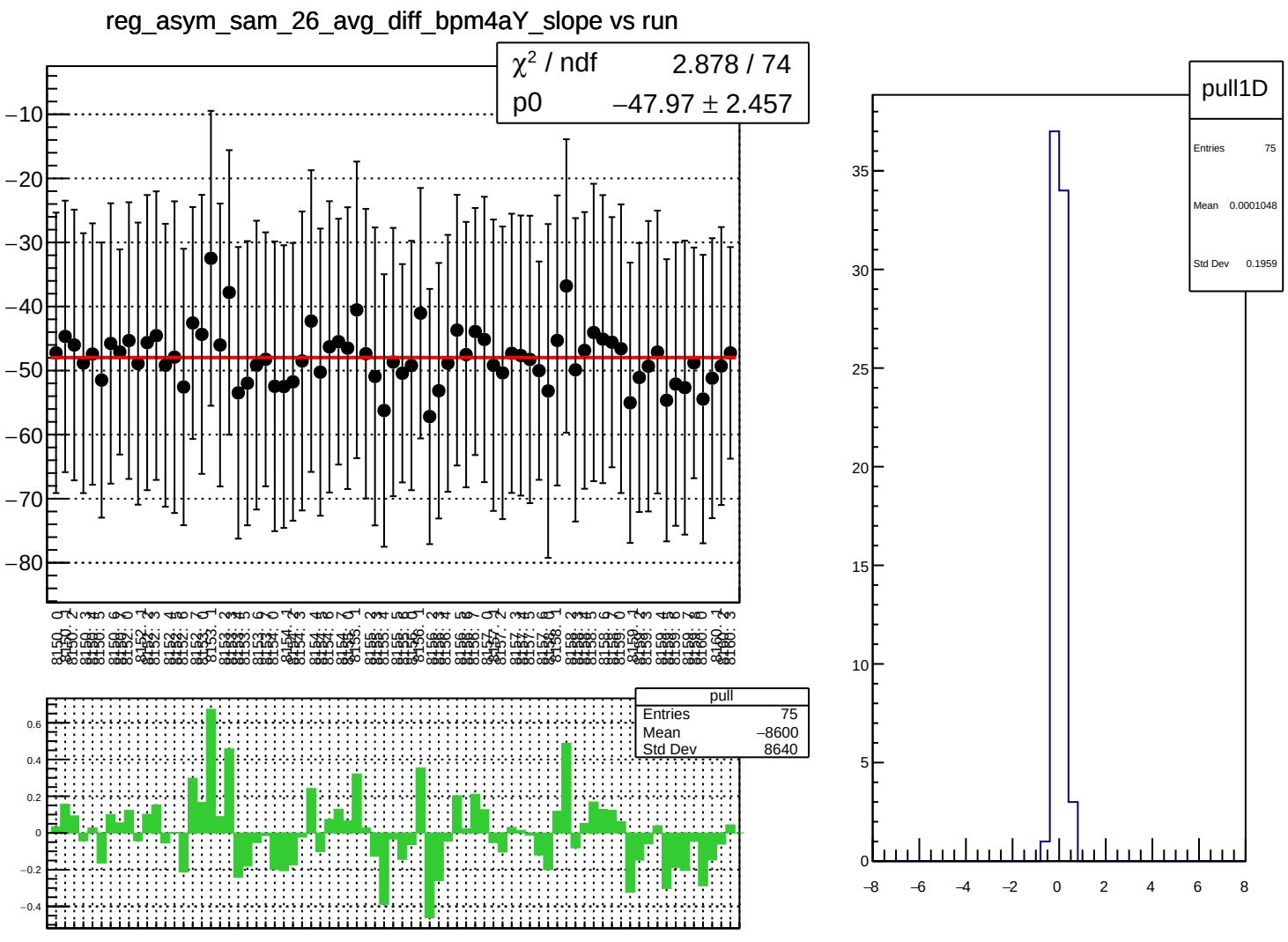

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.547 / 74
p0 25.31 ± 1.594
pull
Entries 75
Mean −1182
Std Dev 1202
pull1D
Entries 75
Mean −0.0002313
Std Dev 0.272

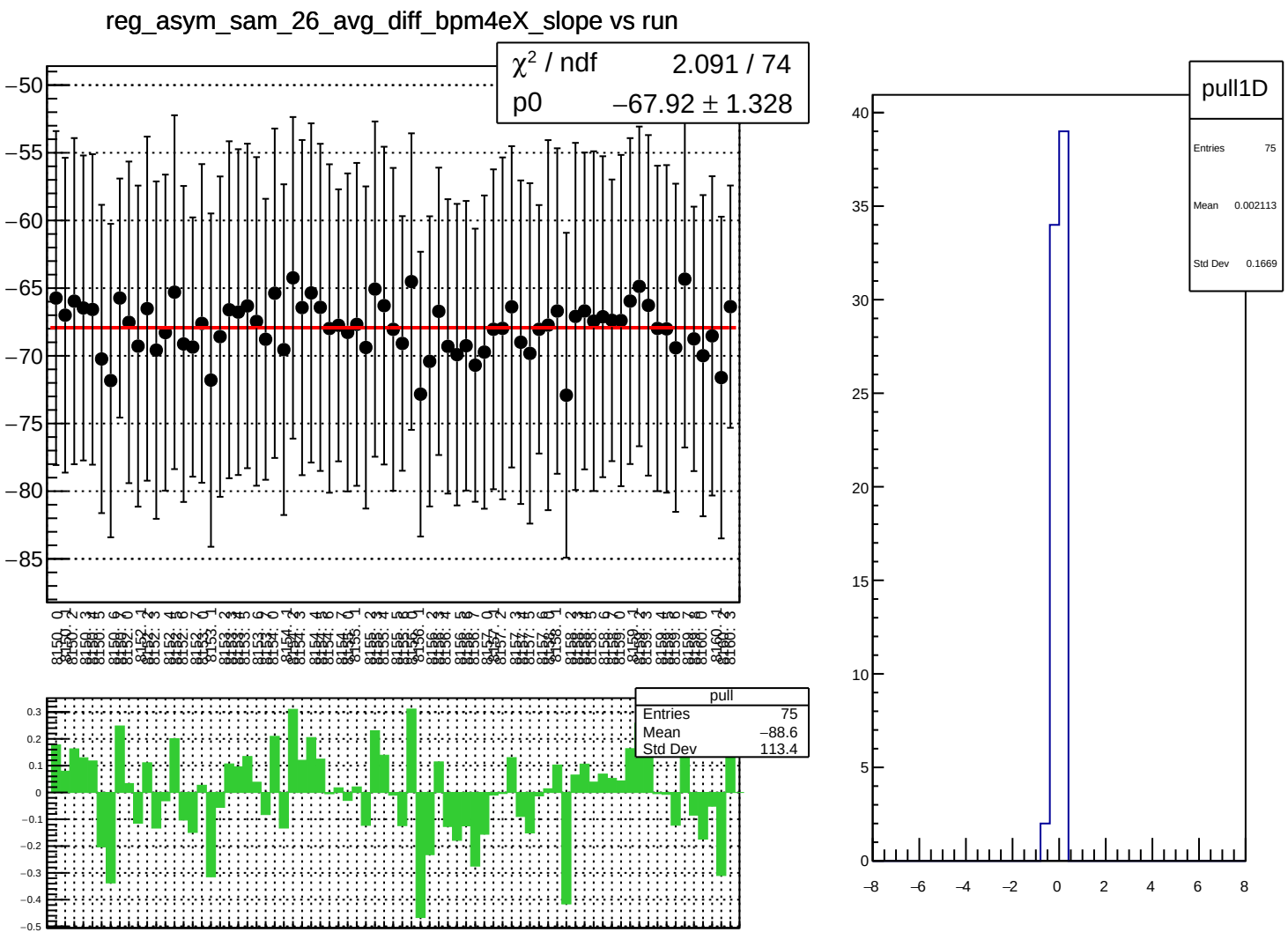

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.023 / 74
p0 0.1346 ± 0.07475
pull
Entries 75
Mean 120.9
Std Dev 53.28

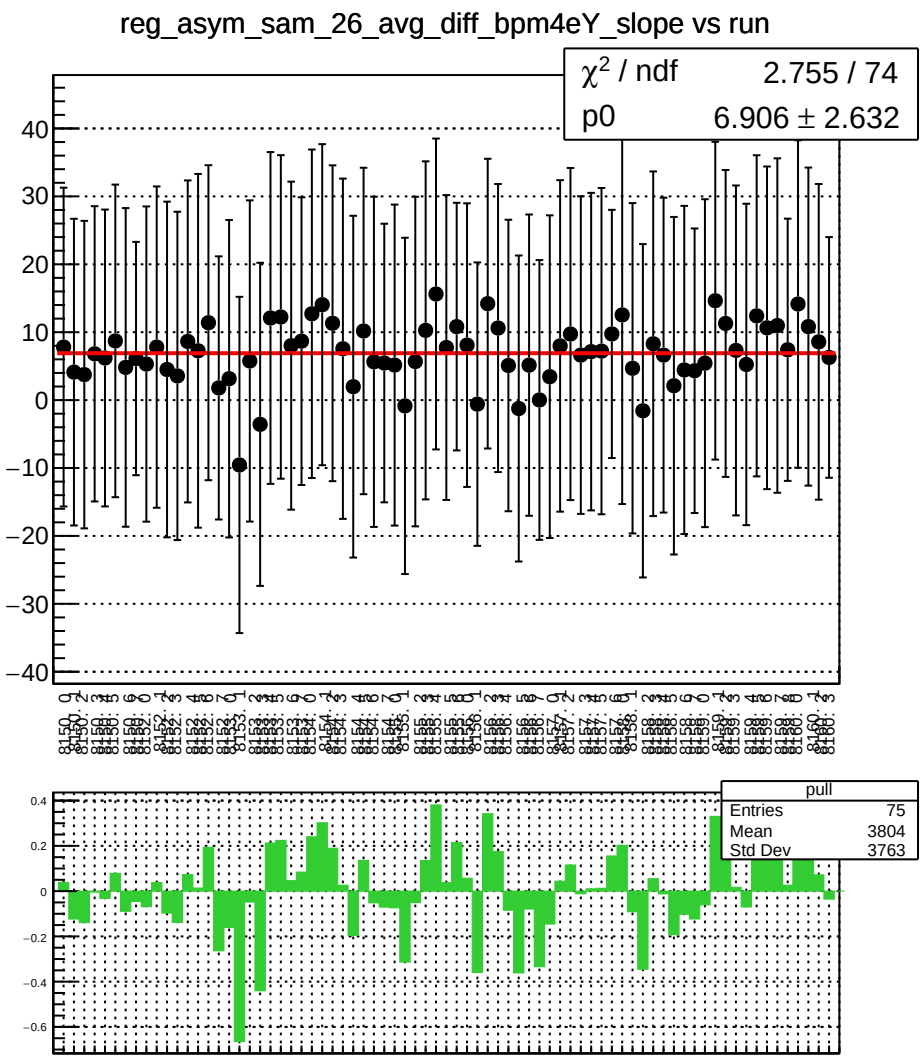

pull1D
Entries 75
Mean 0.003048
Std Dev 0.2007

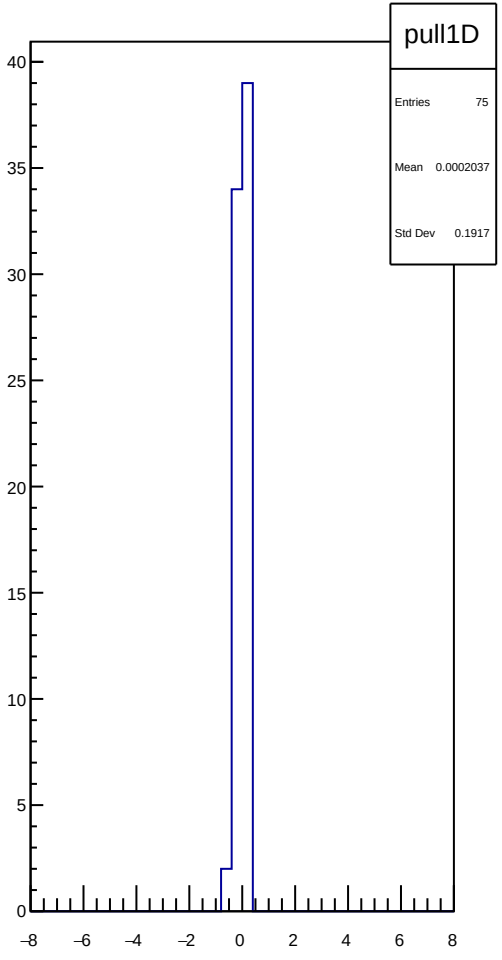

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 1.668 / 74
p0 −9.837 ± 1.31
pull
Entries 75
Mean 163.9
Std Dev 86.61

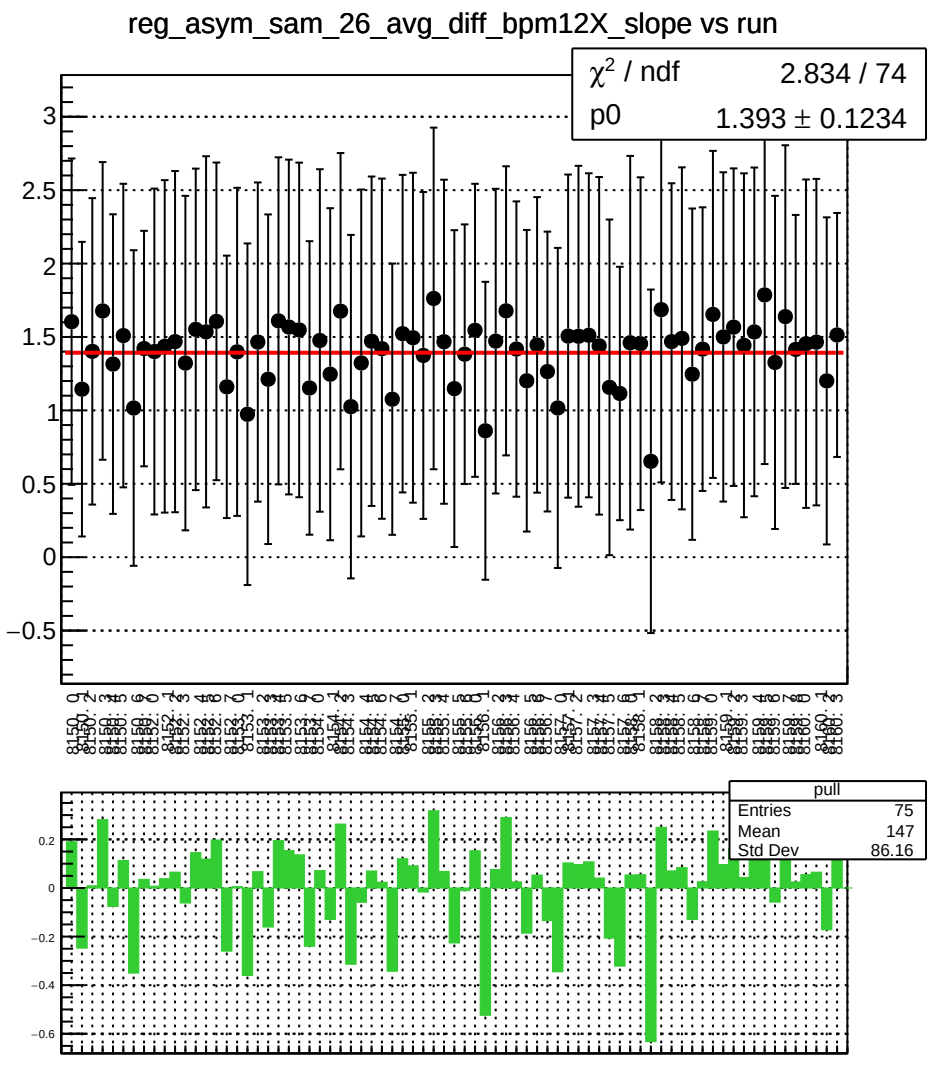

pull1D
Entries 75
Mean −0.0007151
Std Dev 0.1491

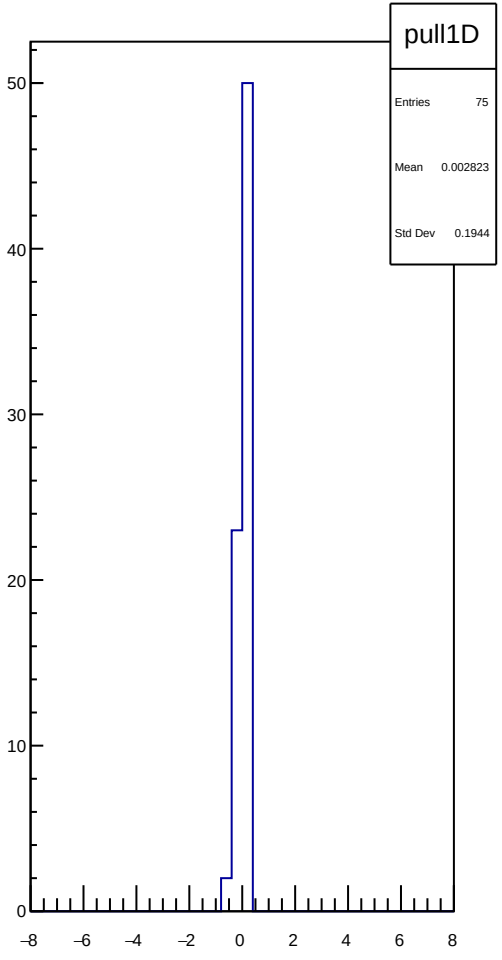

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.878 / 74
p0 −47.97 ± 2.457
pull
Entries 75
Mean −8600
Std Dev 8640
pull1D
Entries 75
Mean 0.0001048
Std Dev 0.1959

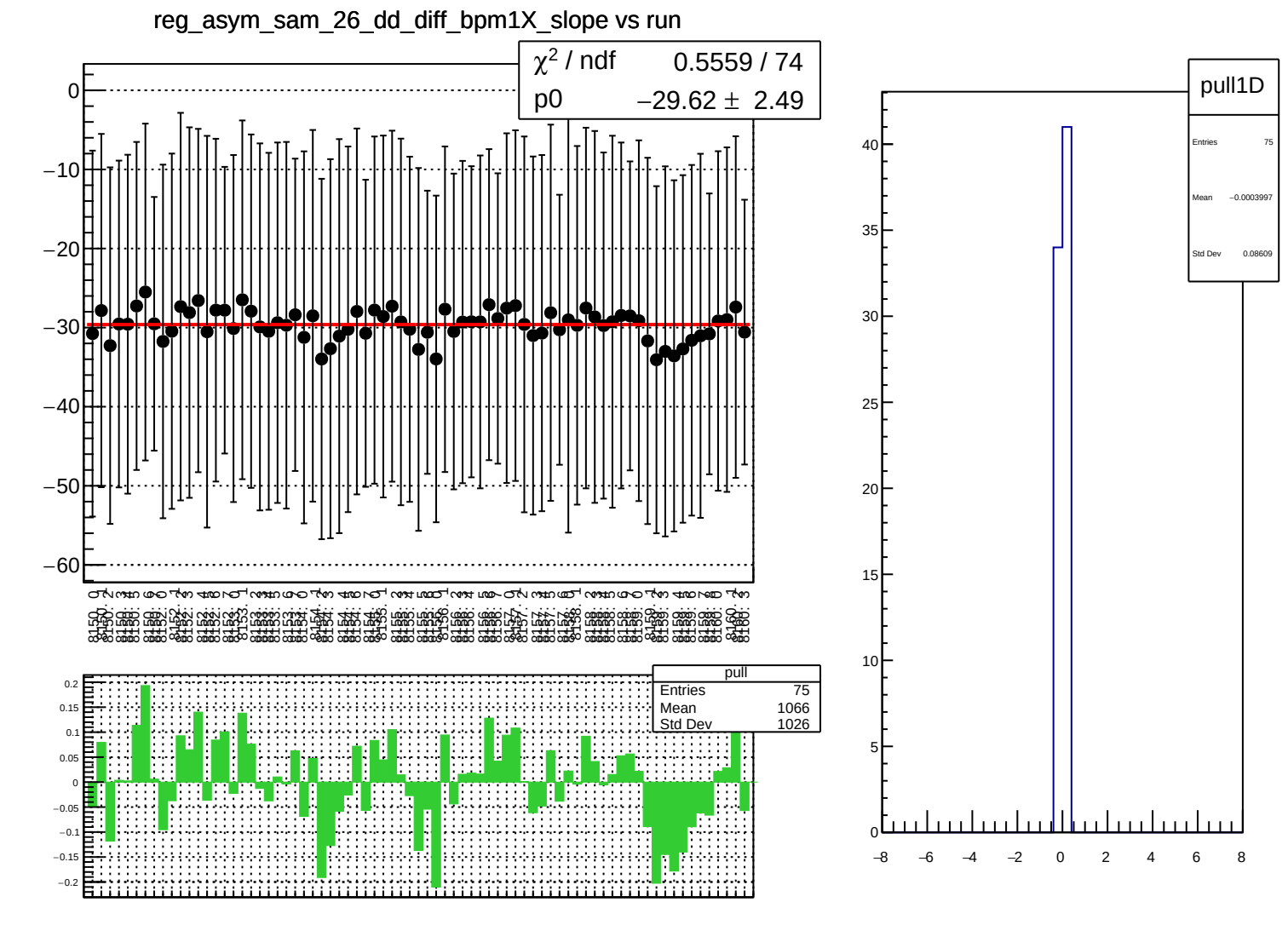

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.091 / 74
p0 −67.92 ± 1.328
pull
Entries 75
Mean −88.6
Std Dev 113.4
pull1D
Entries 75
Mean 0.002113
Std Dev 0.1669

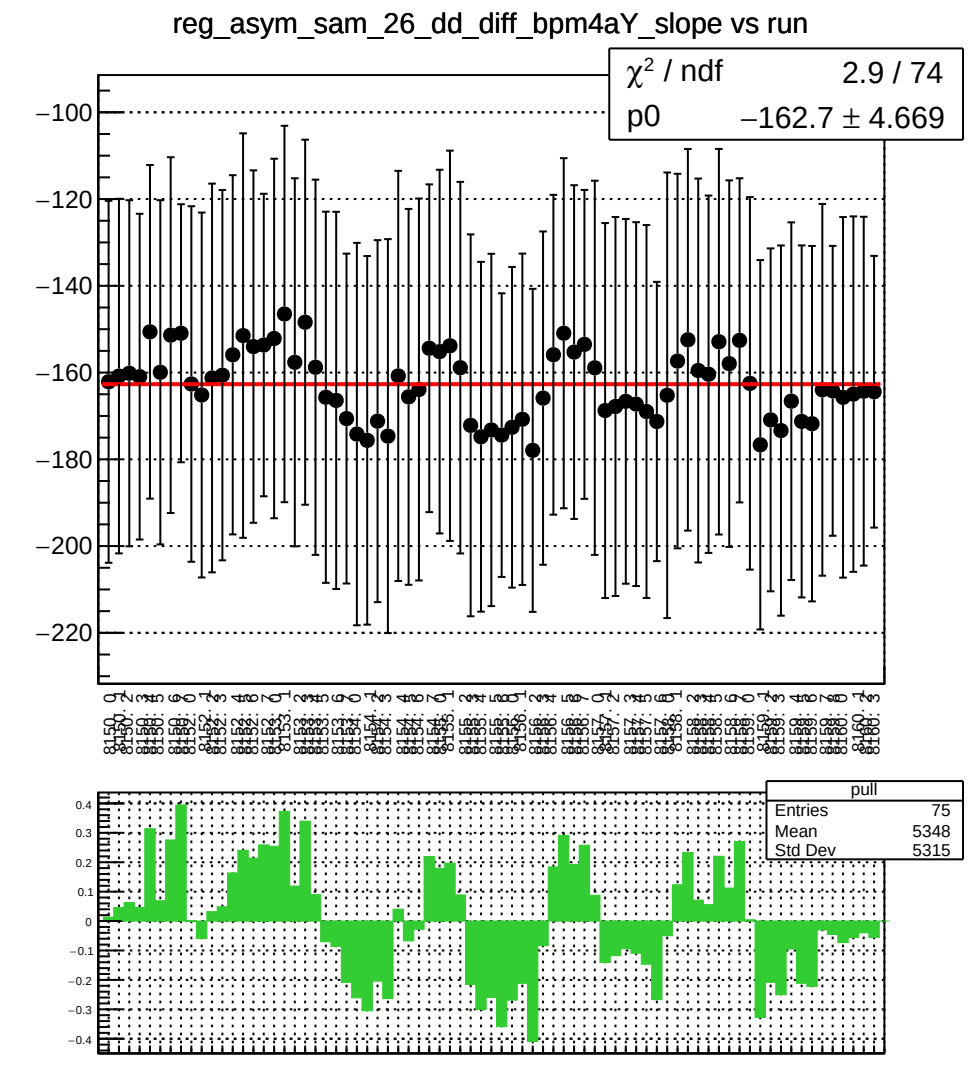

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.755 / 74
p0 6.906 ± 2.632
pull
Entries 75
Mean 3804
Std Dev 3763

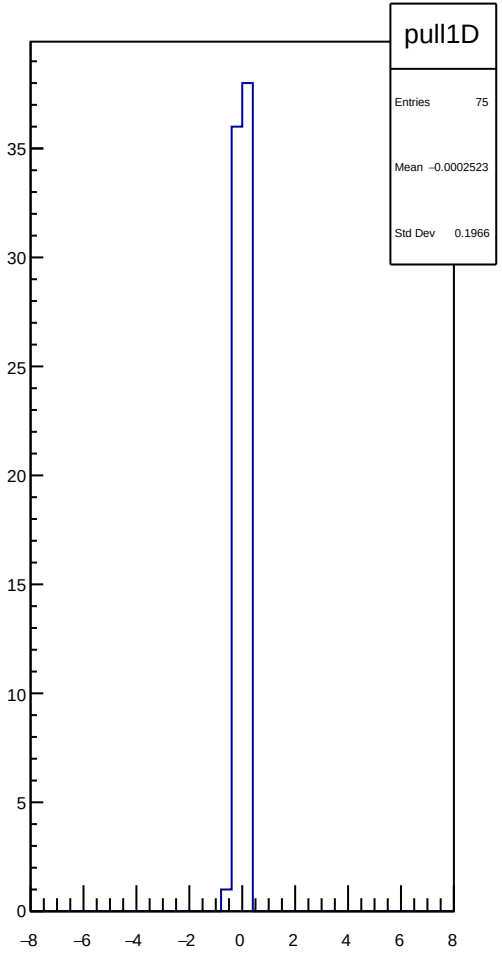

pull1D
Entries 75
Mean 0.0002037
Std Dev 0.1917

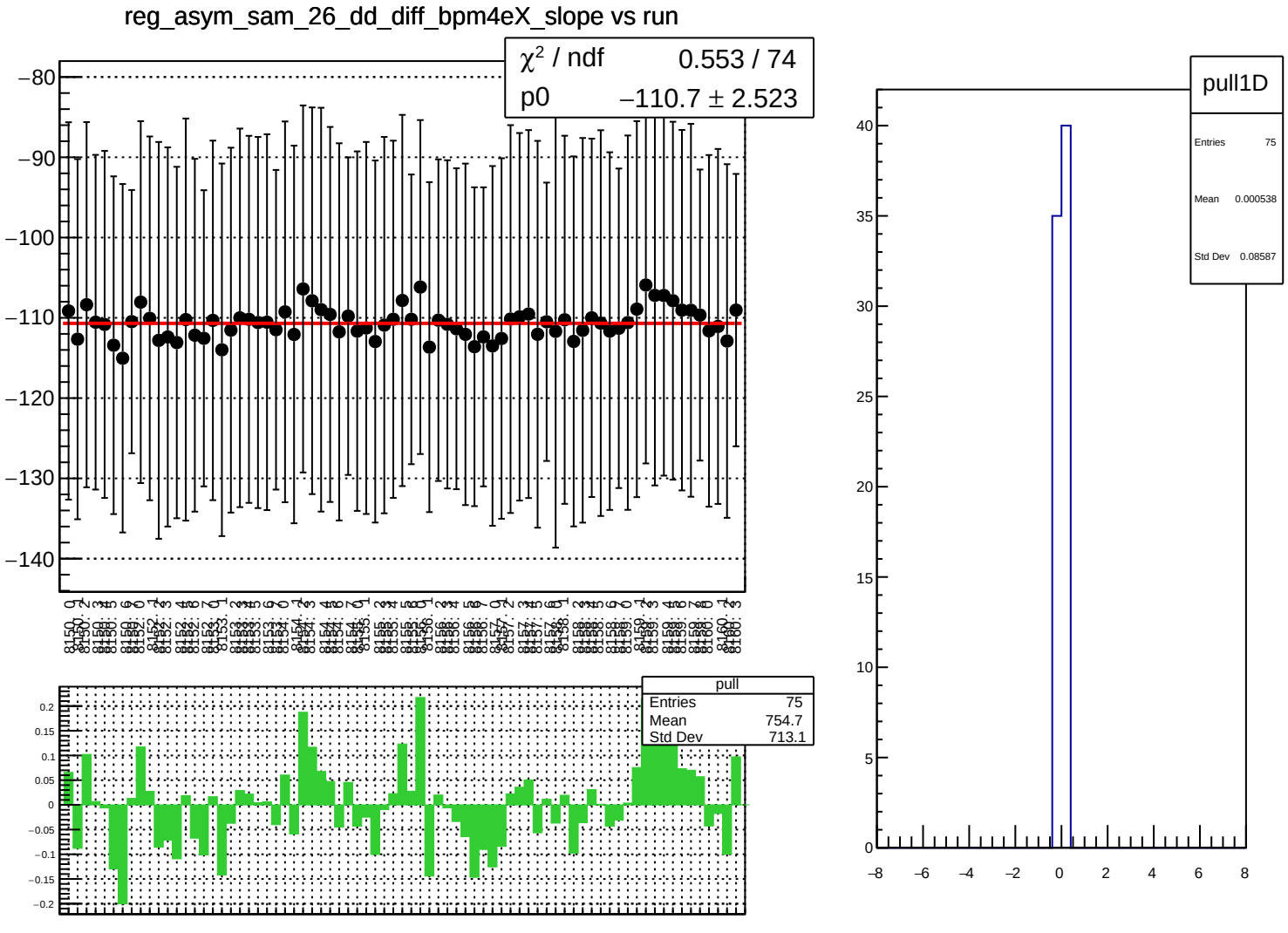

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 2.834 / 74
p0 1.393 ± 0.1234
pull
Entries 75
Mean 147
Std Dev 86.16

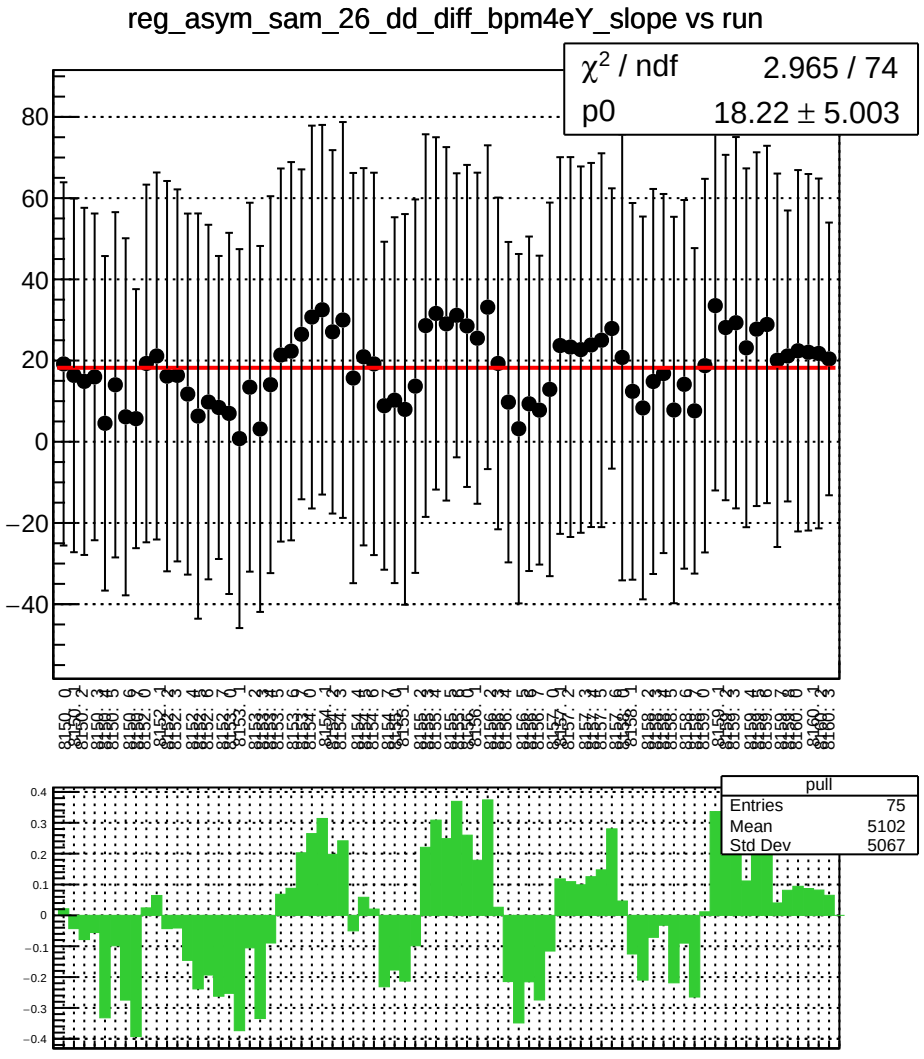

pull1D
Entries 75
Mean 0.002823
Std Dev 0.1944

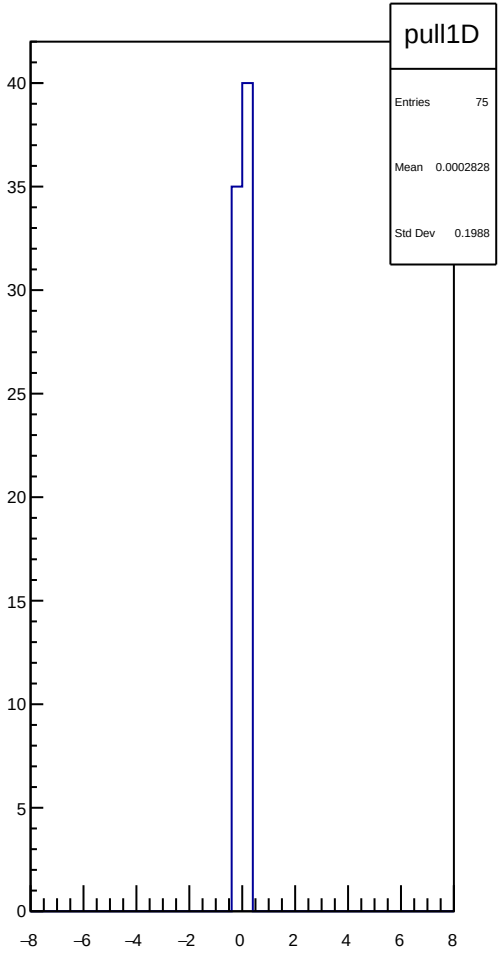

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.5559 / 74
p0 −29.62 ± 2.49
pull
Entries 75
Mean 1066
Std Dev 1026
pull1D
Entries 75
Mean −0.0003997
Std Dev 0.08609

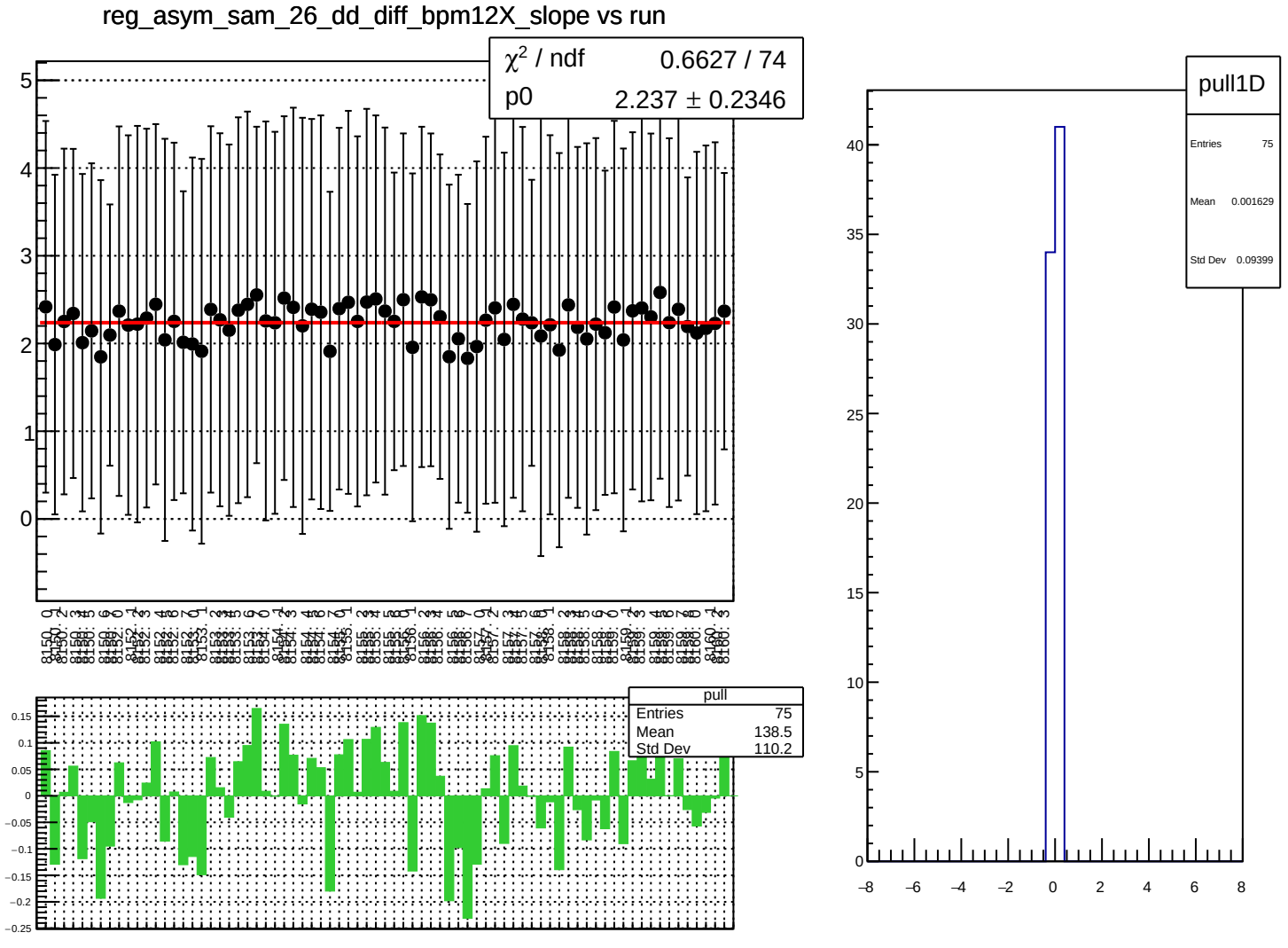

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.9 / 74
p0 −162.7 ± 4.669
pull
Entries 75
Mean 5348
Std Dev 5315

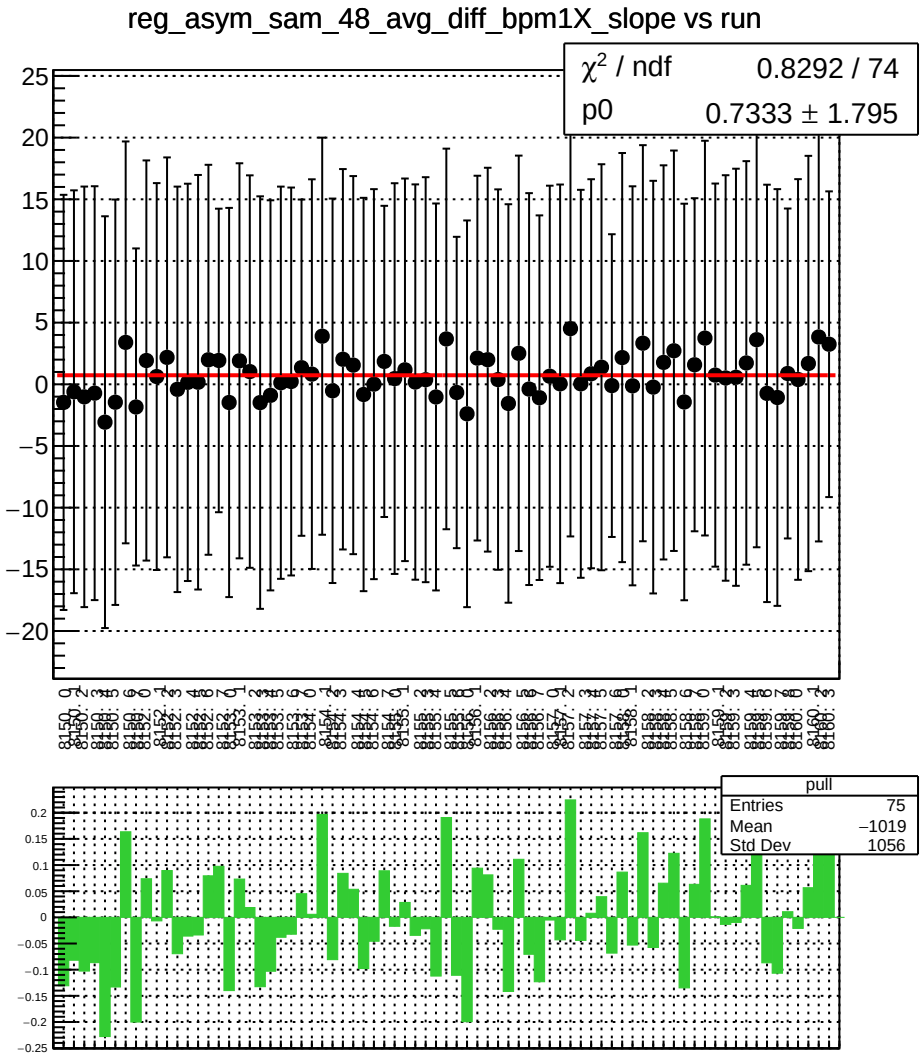

pull1D
Entries 75
Mean −0.0002523
Std Dev 0.1966

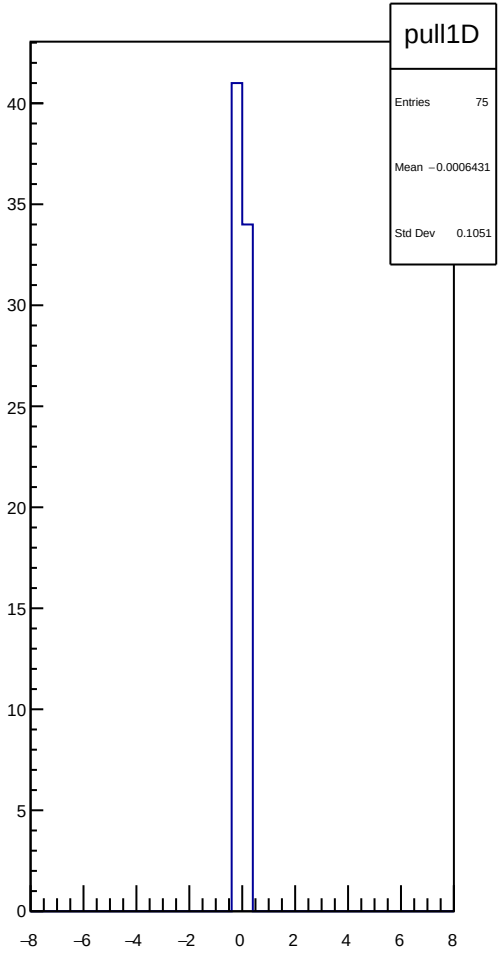

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.553 / 74
p0 −110.7 ± 2.523
pull
Entries 75
Mean 754.7
Std Dev 713.1
pull1D
Entries 75
Mean 0.000538
Std Dev 0.08587

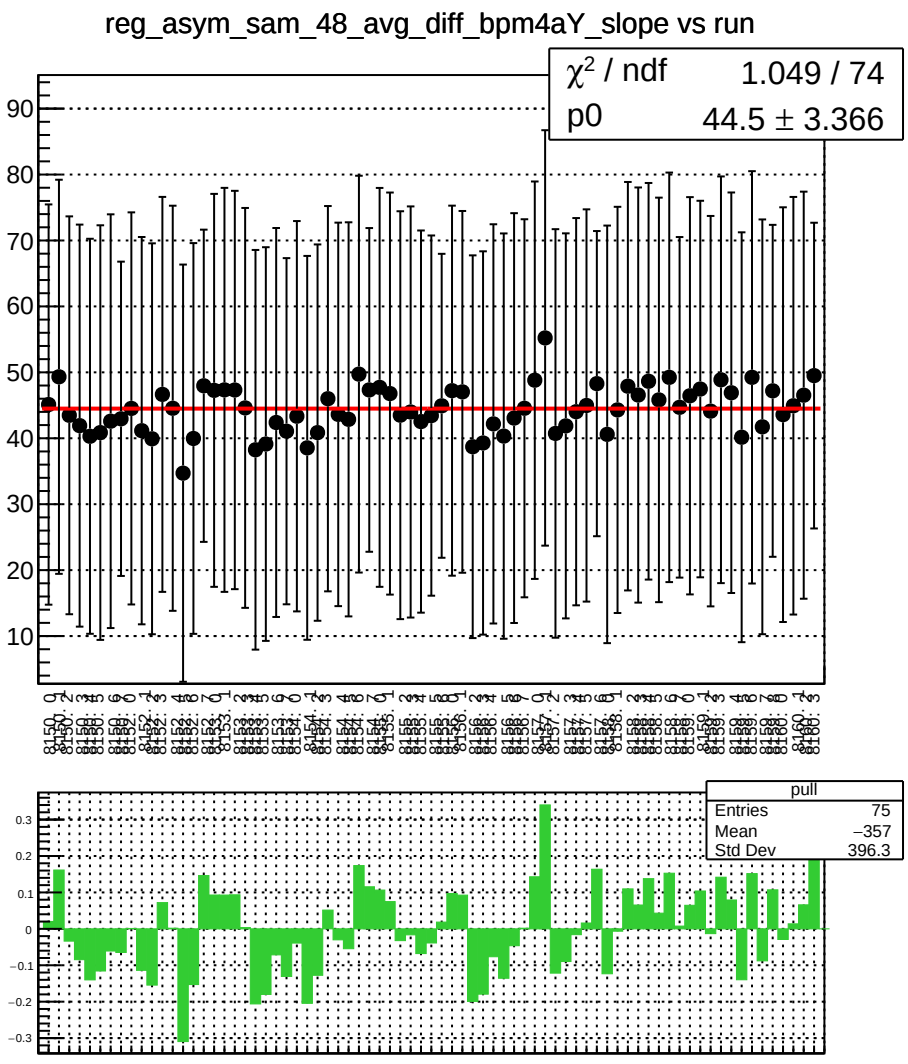

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.965 / 74
p0 18.22 ± 5.003
pull
Entries 75
Mean 5102
Std Dev 5067

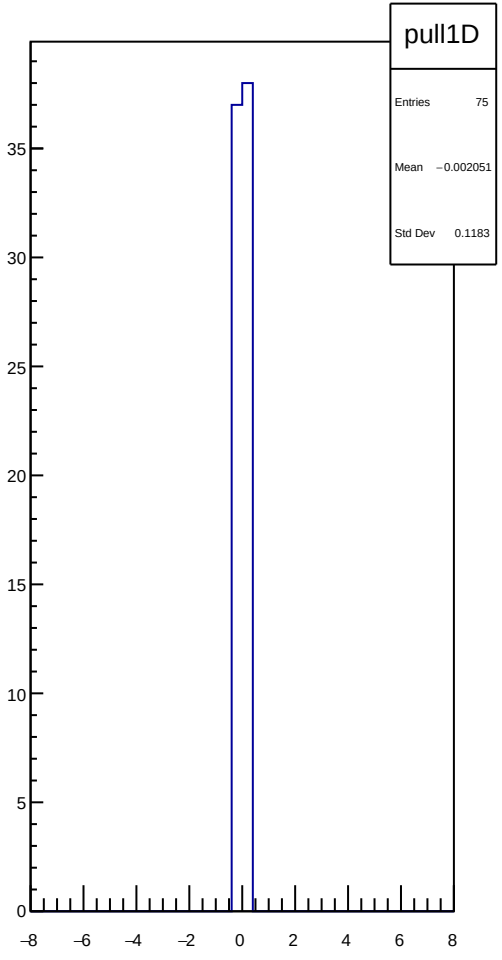

pull1D
Entries 75
Mean 0.0002828
Std Dev 0.1988

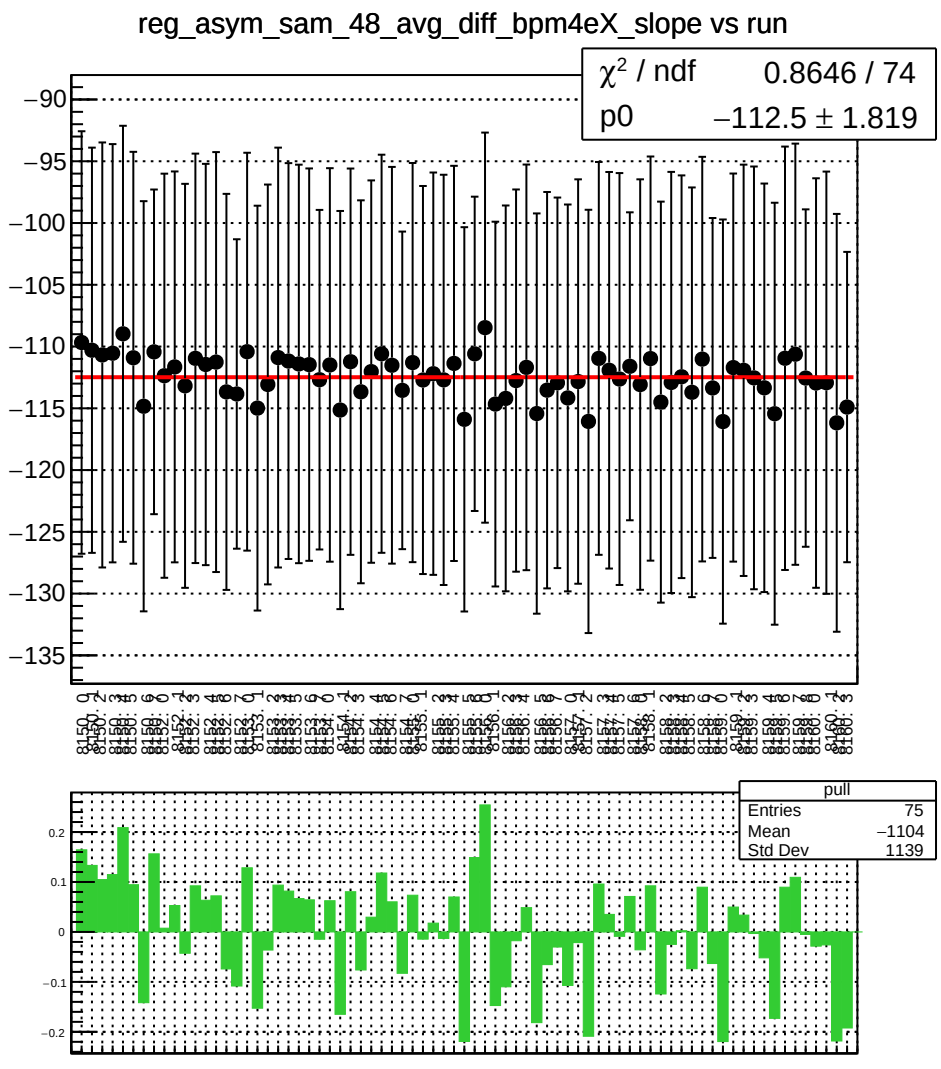

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6627 / 74
p0 2.237 ± 0.2346
pull
Entries 75
Mean 138.5
Std Dev 110.2
pull1D
Entries 75
Mean 0.001629
Std Dev 0.09399

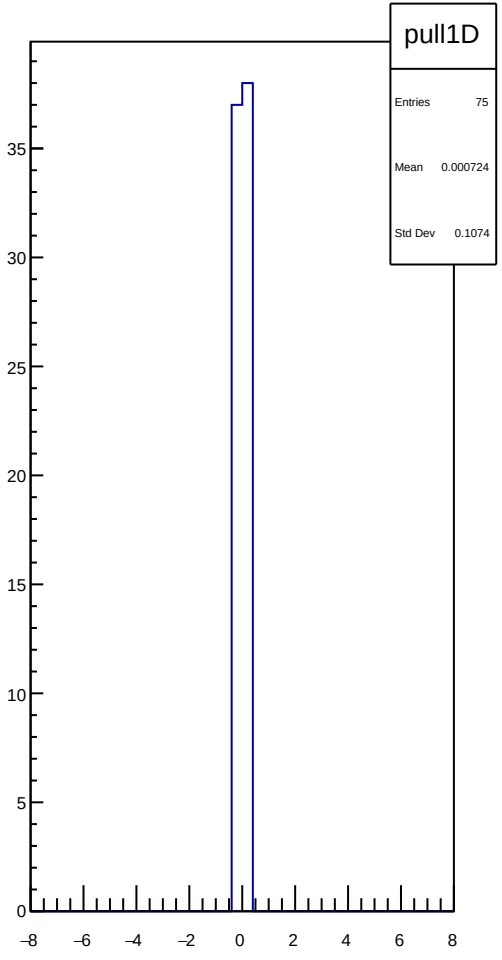

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 0.8292 / 74
p0 0.7333 ± 1.795
pull
Entries 75
Mean −1019
Std Dev 1056

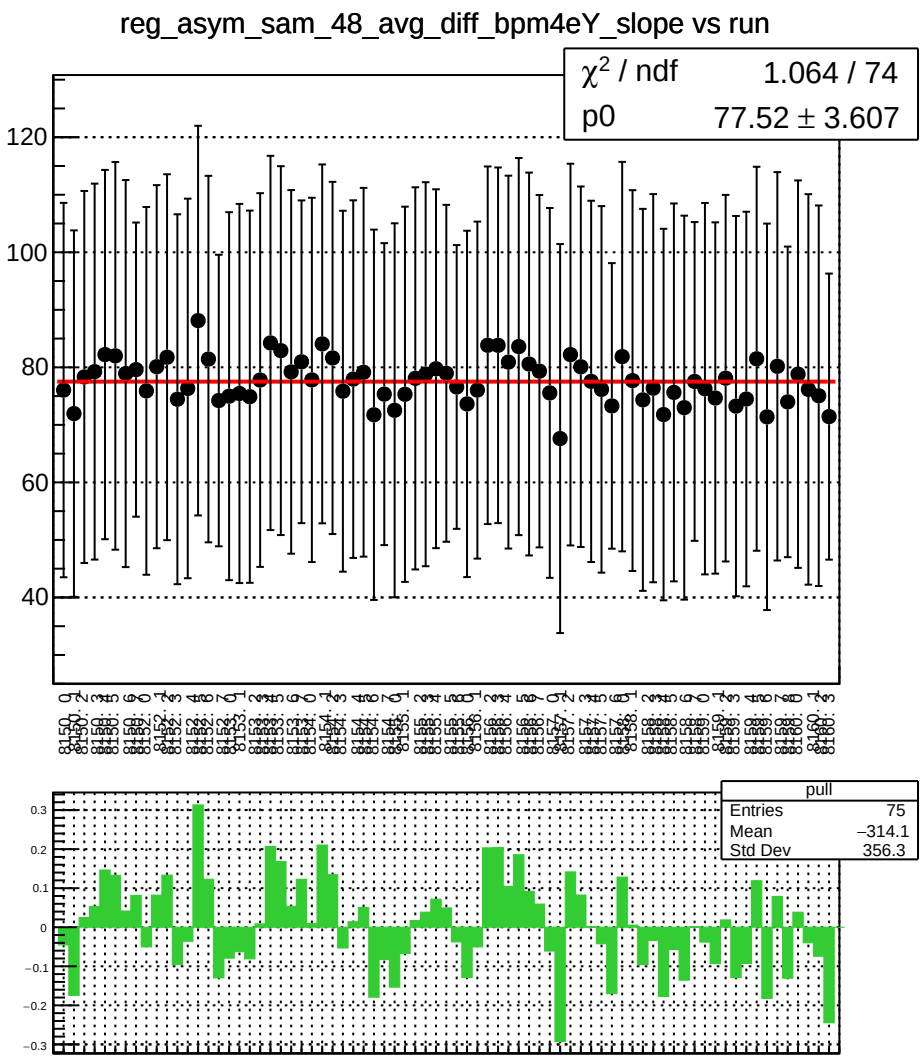

pull1D
Entries 75
Mean −0.0006431
Std Dev 0.1051

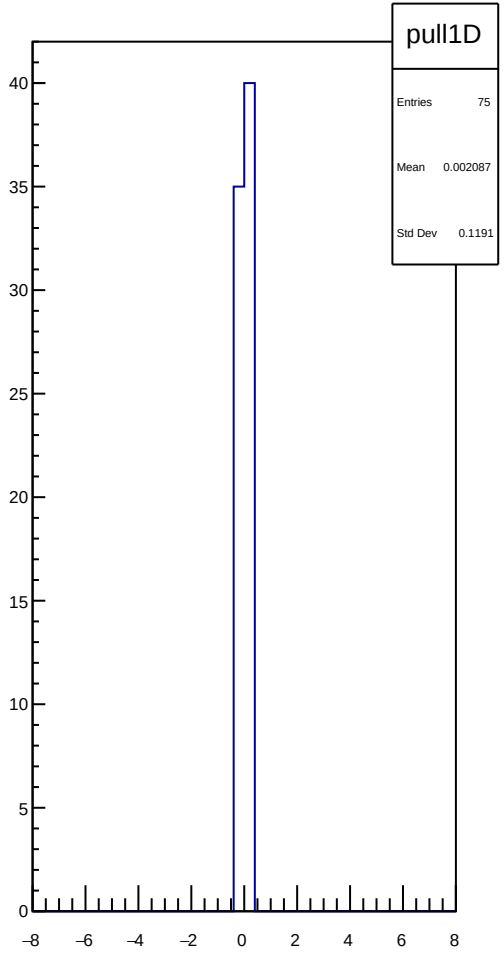

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.049 / 74
p0 44.5 ± 3.366
pull
Entries 75
Mean −357
Std Dev 396.3

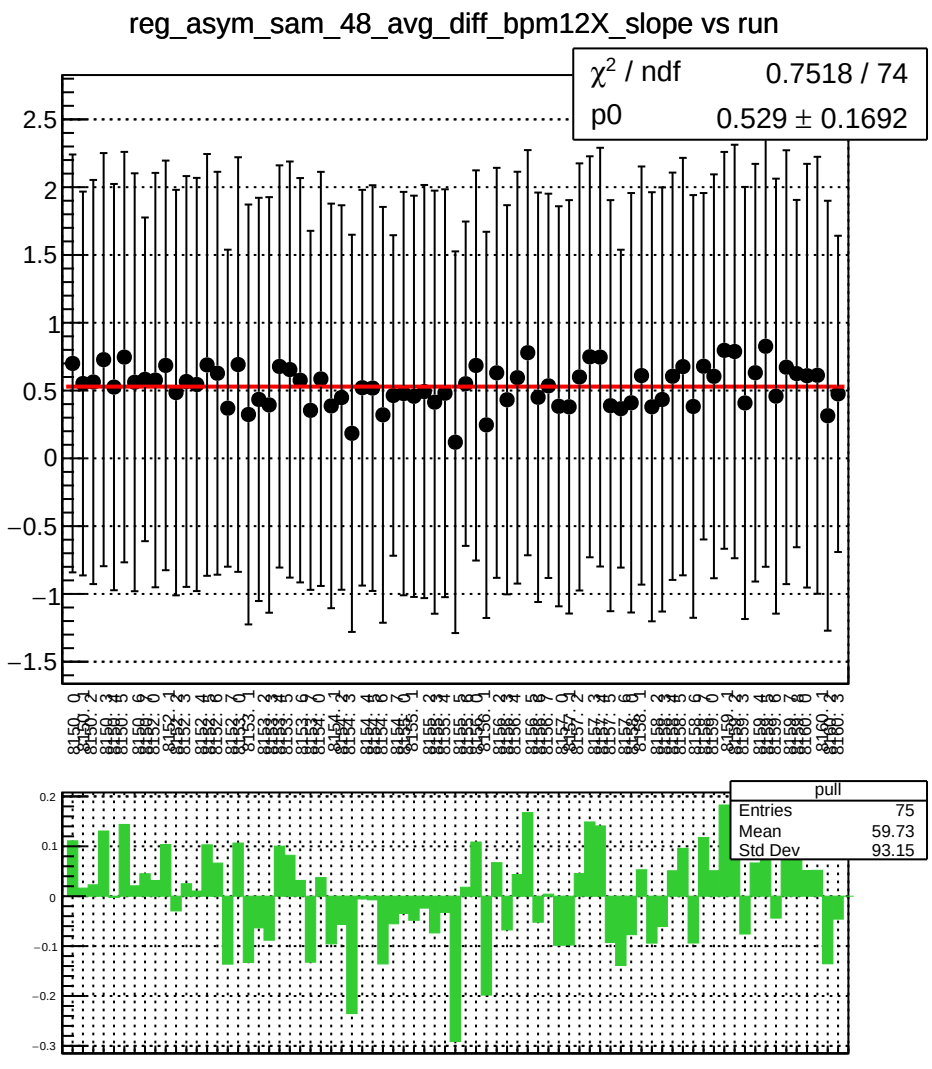

pull1D
Entries 75
Mean −0.002051
Std Dev 0.1183

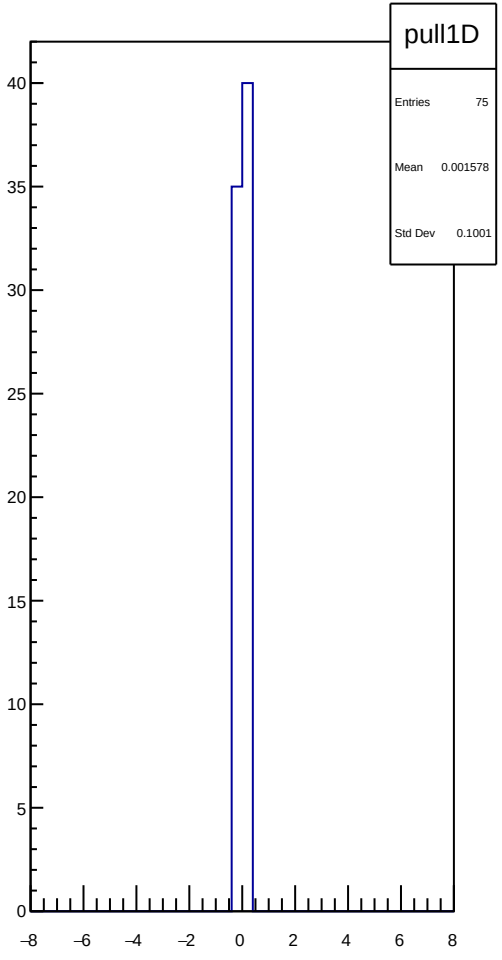

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.8646 / 74
p0 −112.5 ± 1.819
pull
Entries 75
Mean −1104
Std Dev 1139

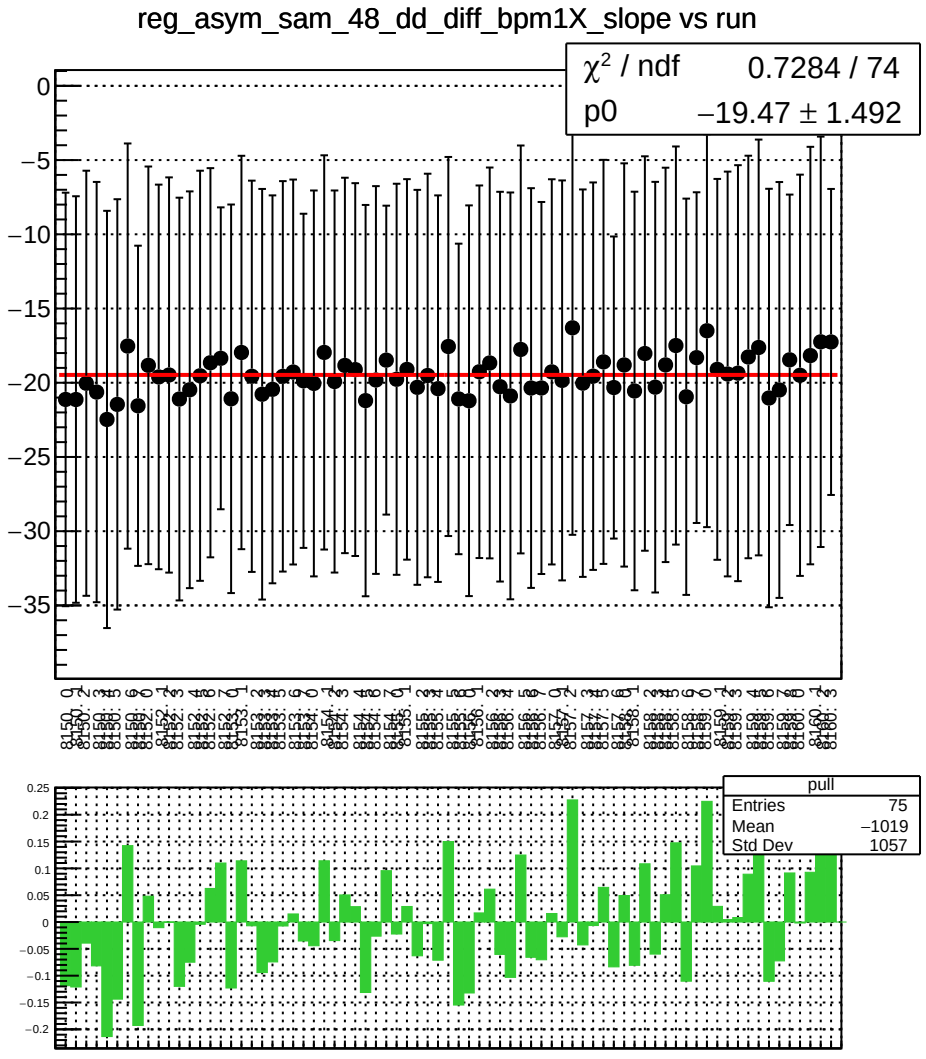

pull1D
Entries 75
Mean 0.000724
Std Dev 0.1074

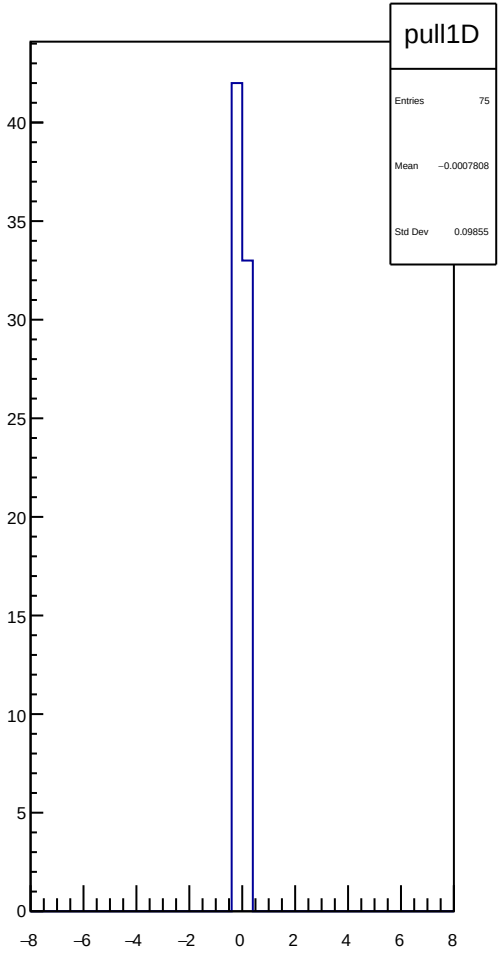

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.064 / 74
p0 77.52 ± 3.607
120
100
80
60
40
pull
Entries 75
Mean −314.1
Std Dev 356.3
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

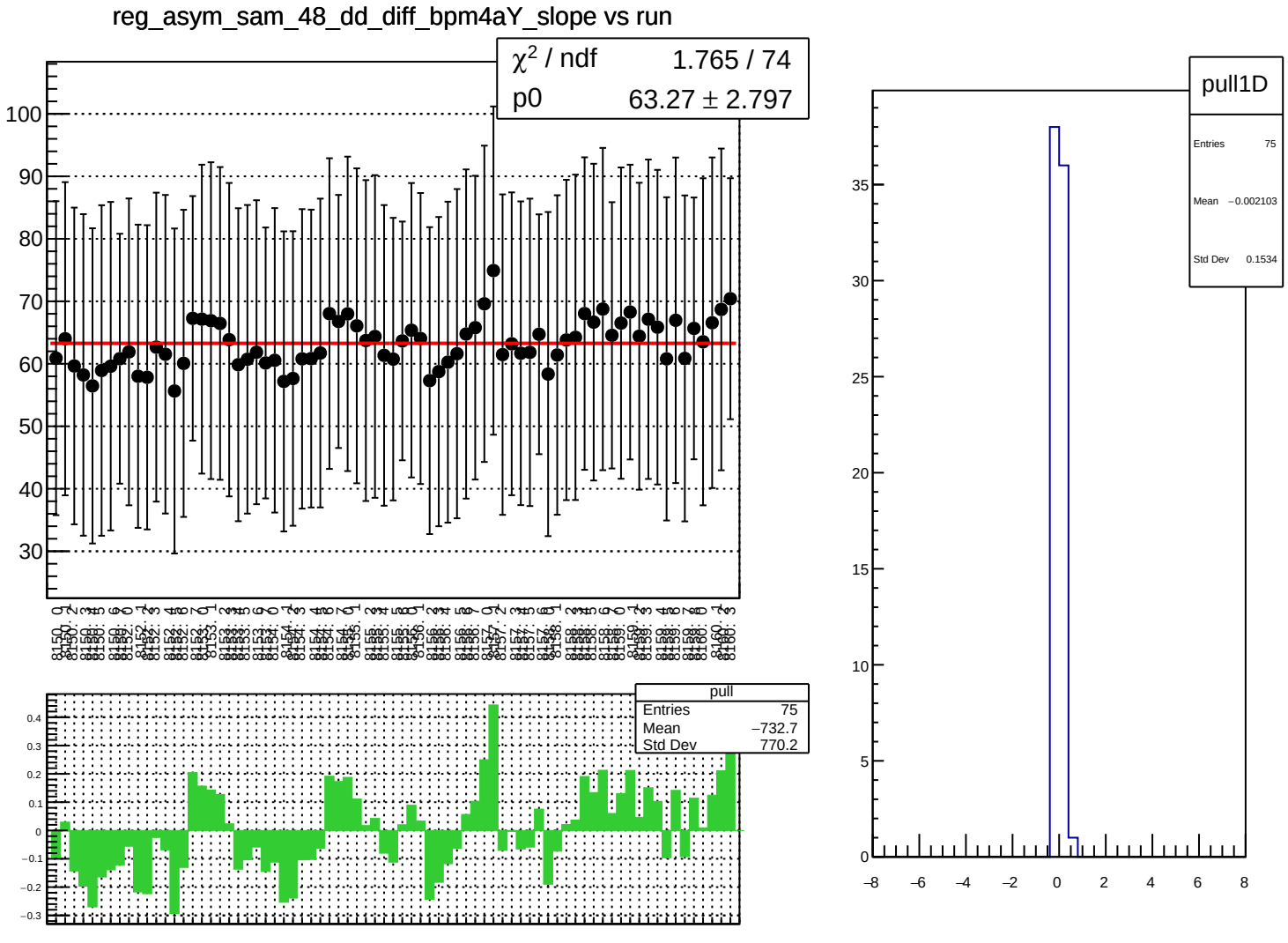

pull1D
Entries 75
Mean 0.002087
Std Dev 0.1191
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

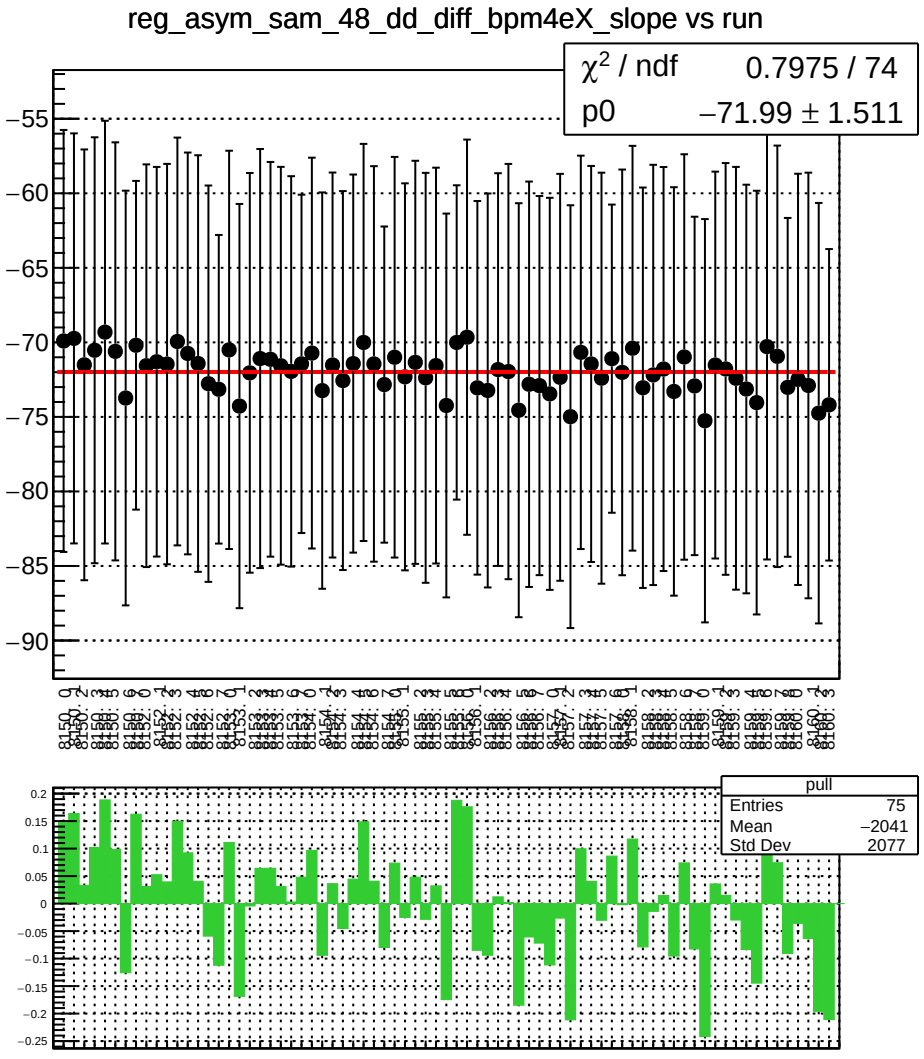

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 0.7518 / 74
p0 0.529 ± 0.1692
pull
Entries 75
Mean 59.73
Std Dev 93.15

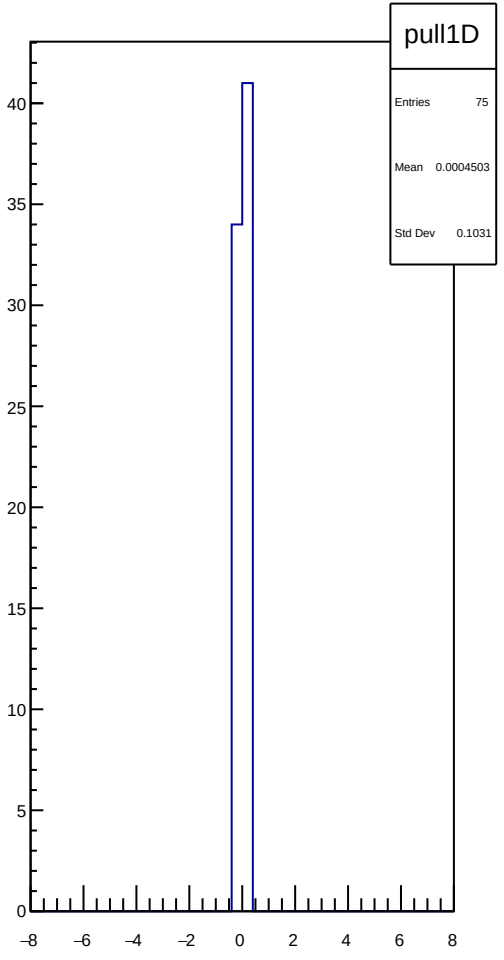

pull1D
Entries 75
Mean 0.001578
Std Dev 0.1001

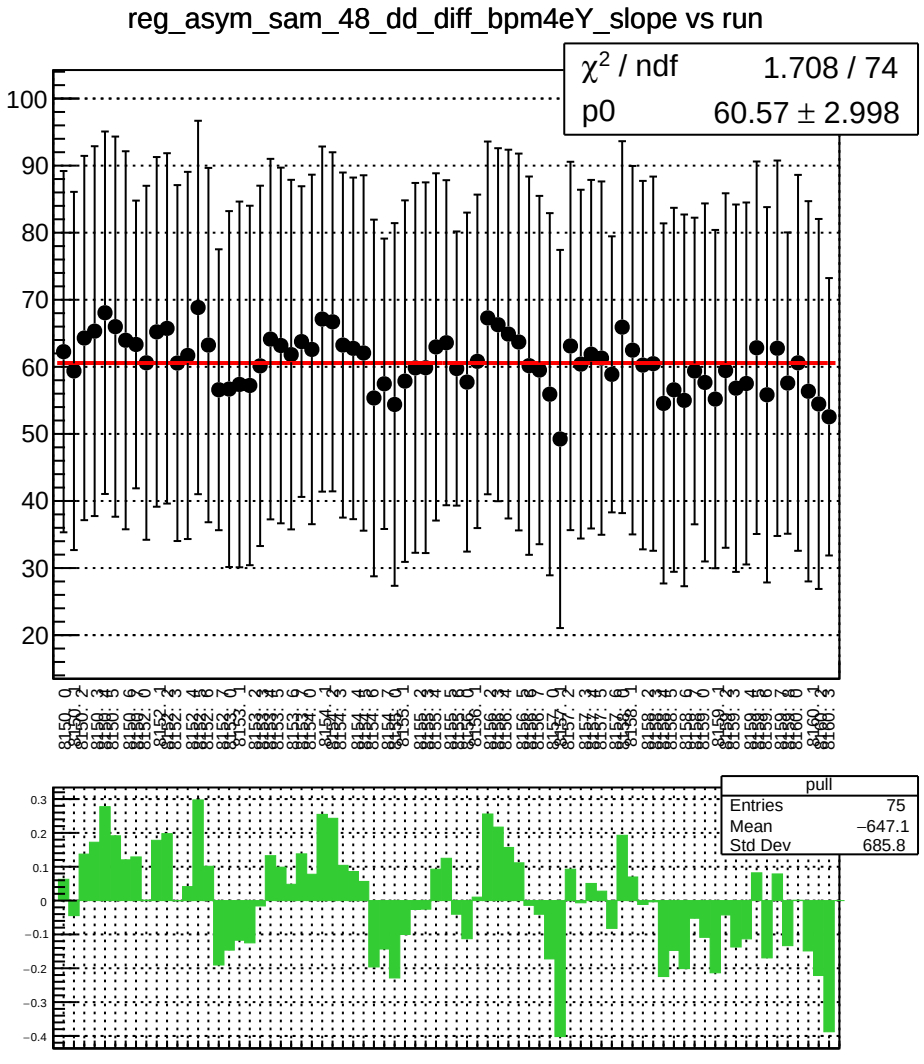

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 0.7284 / 74
p0 −19.47 ± 1.492
pull
Entries 75
Mean −1019
Std Dev 1057

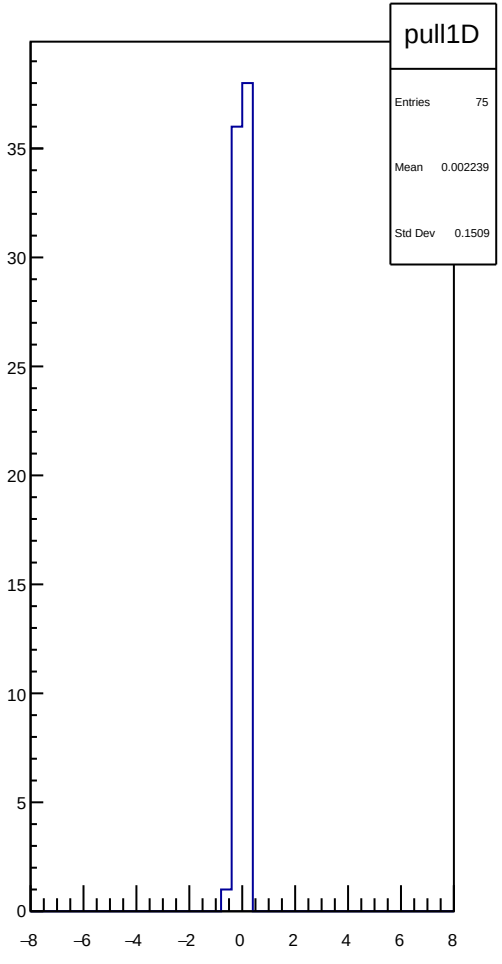

pull1D
Entries 75
Mean −0.0007808
Std Dev 0.09855

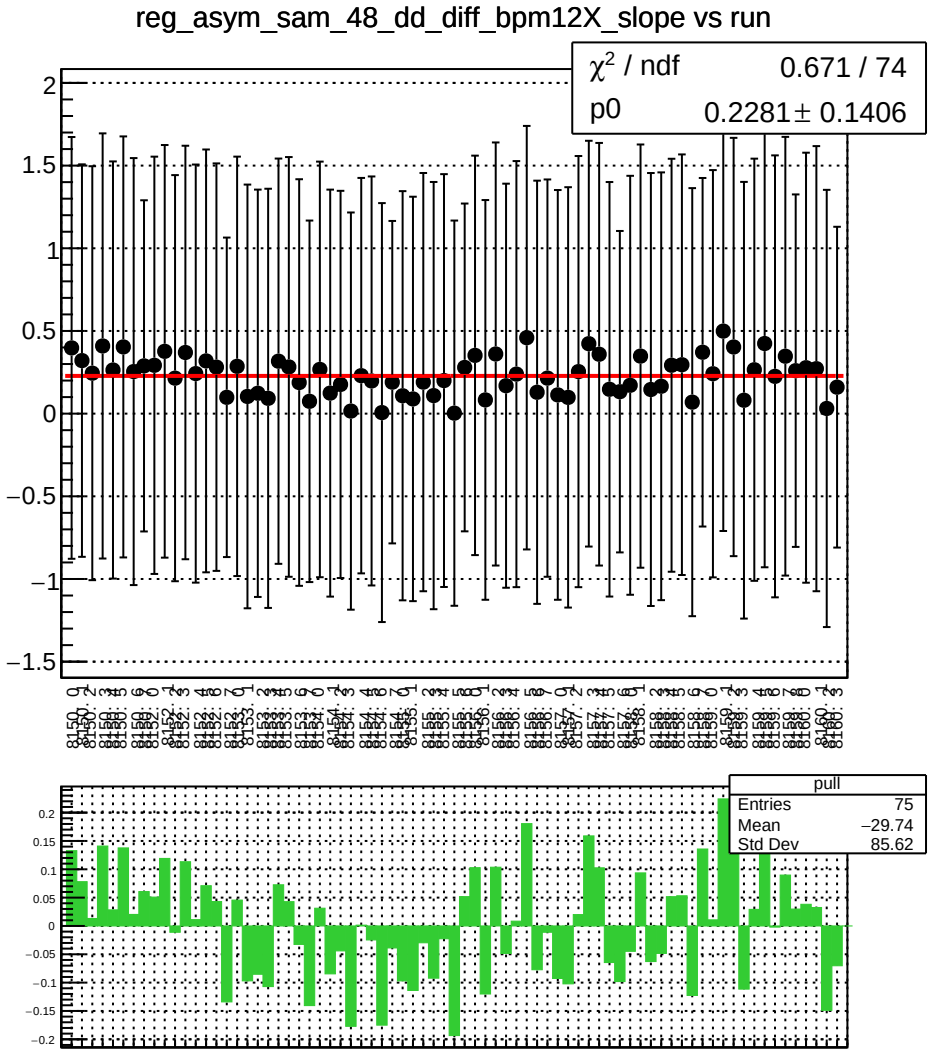

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.765 / 74
p0 63.27 ± 2.797
pull
Entries 75
Mean −732.7
Std Dev 770.2
pull1D
Entries 75
Mean −0.002103
Std Dev 0.1534

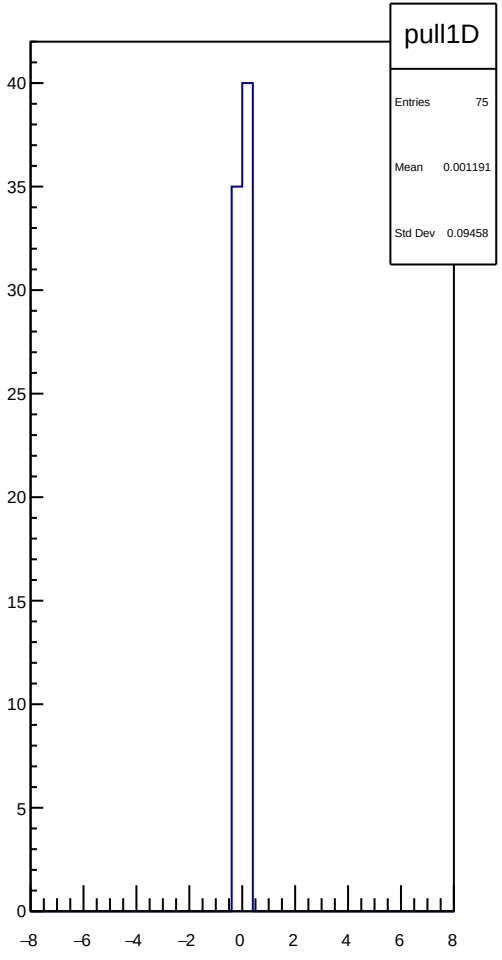

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.7975 / 74
p0 −71.99 ± 1.511
pull
Entries 75
Mean −2041
Std Dev 2077

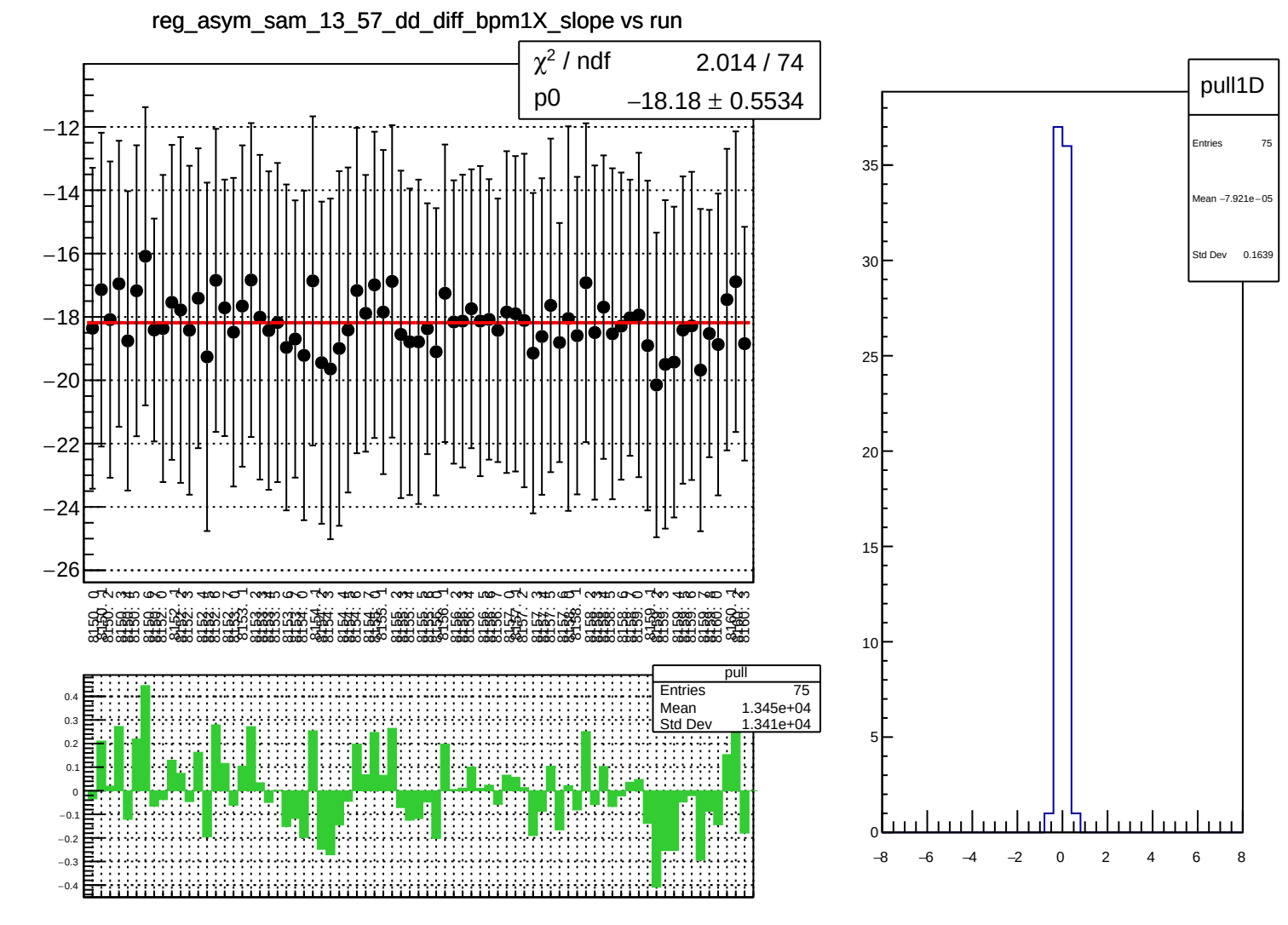

pull1D
Entries 75
Mean 0.0004503
Std Dev 0.1031

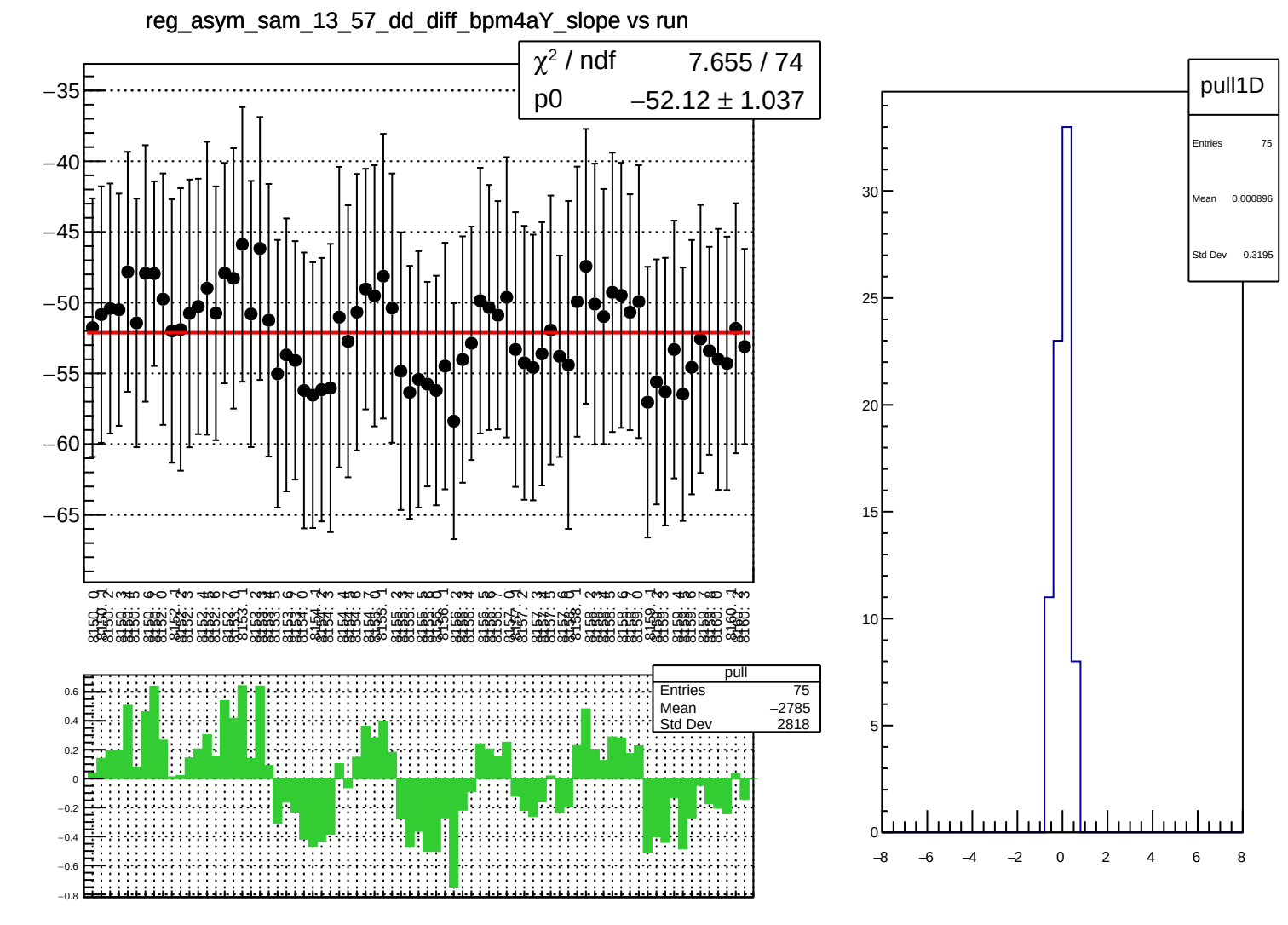

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.708 / 74
p0 60.57 ± 2.998
pull
Entries 75
Mean −647.1
Std Dev 685.8

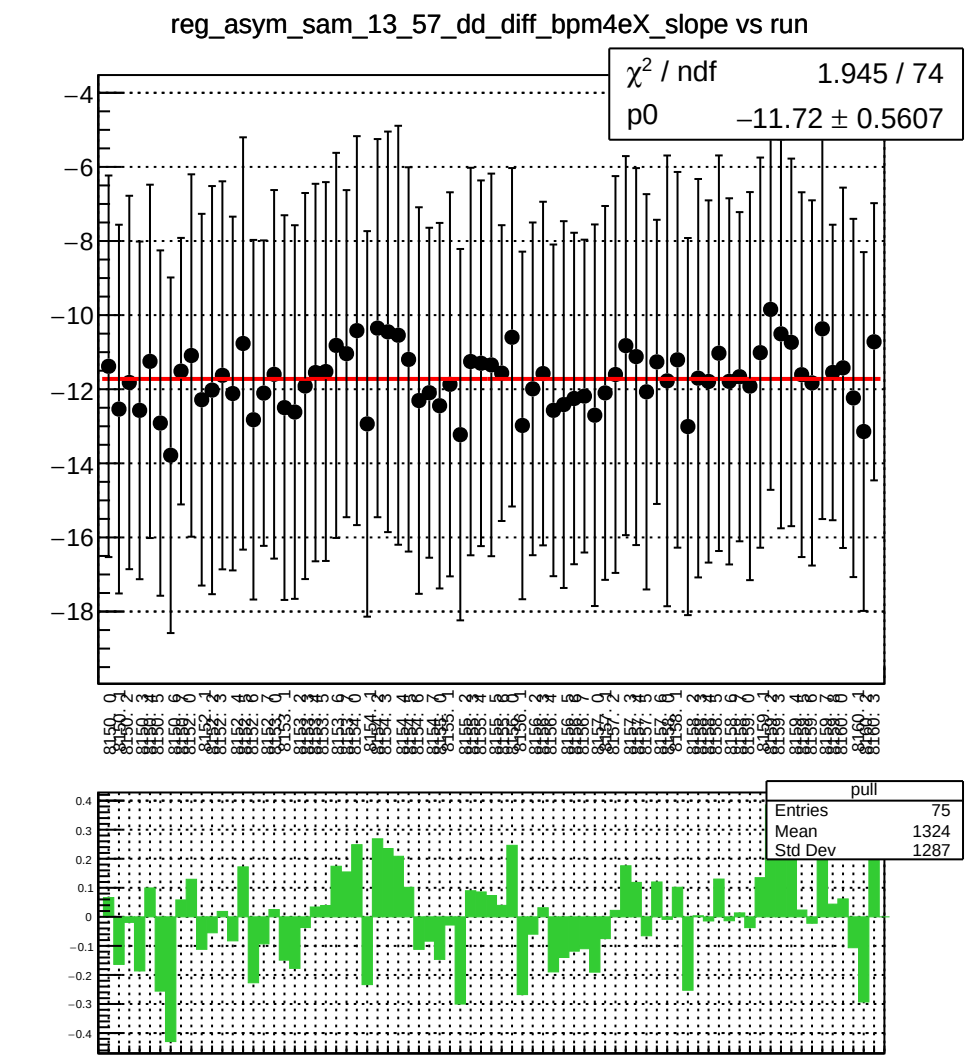

pull1D
Entries 75
Mean 0.002239
Std Dev 0.1509

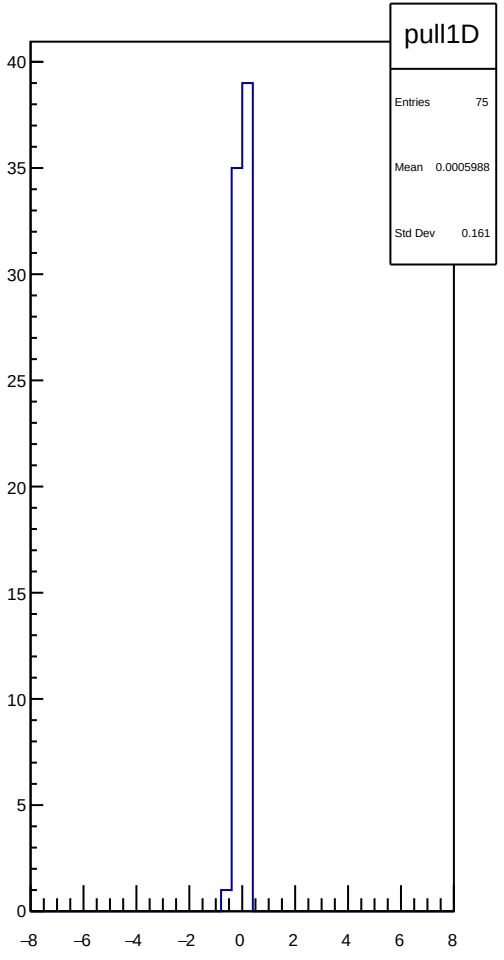

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.671 / 74
p0 0.2281 ± 0.1406
pull
Entries 75
Mean −29.74
Std Dev 85.62

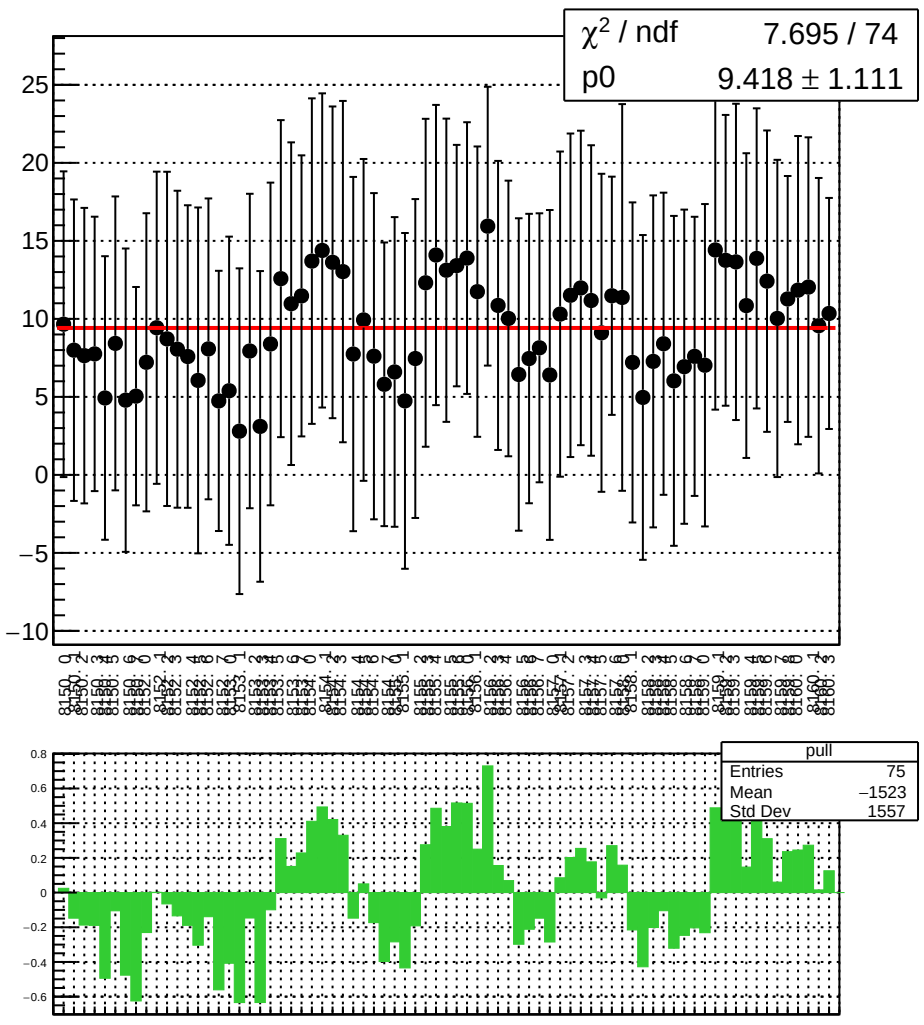

pull1D
Entries 75
Mean 0.001191
Std Dev 0.09458

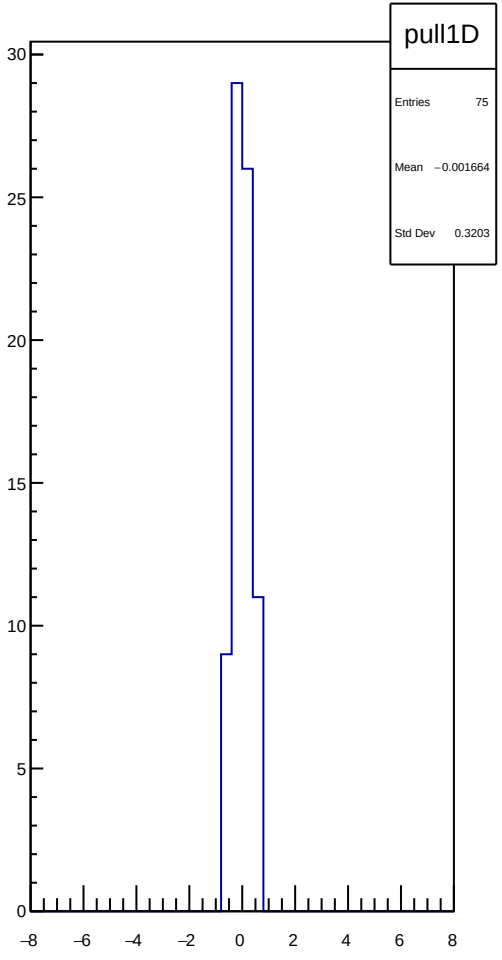

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 2.014 / 74
p0 −18.18 ± 0.5534
pull
Entries 75
Mean 1.345e+04
Std Dev 1.341e+04
pull1D
Entries 75
Mean −7.921e−05
Std Dev 0.1639

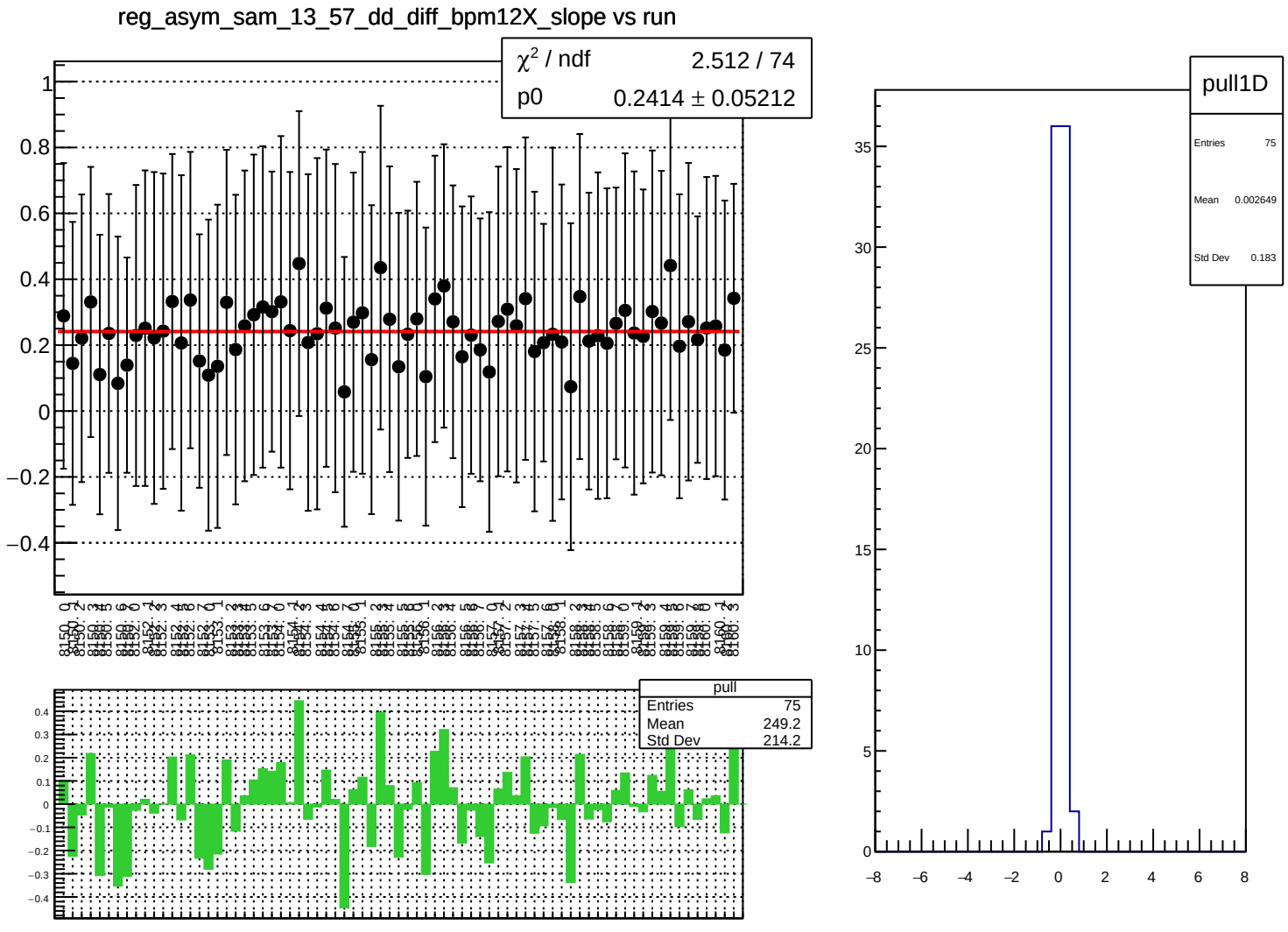

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.655 / 74
p0 −52.12 ± 1.037
pull
Entries 75
Mean −2785
Std Dev 2818
pull1D
Entries 75
Mean 0.000896
Std Dev 0.3195

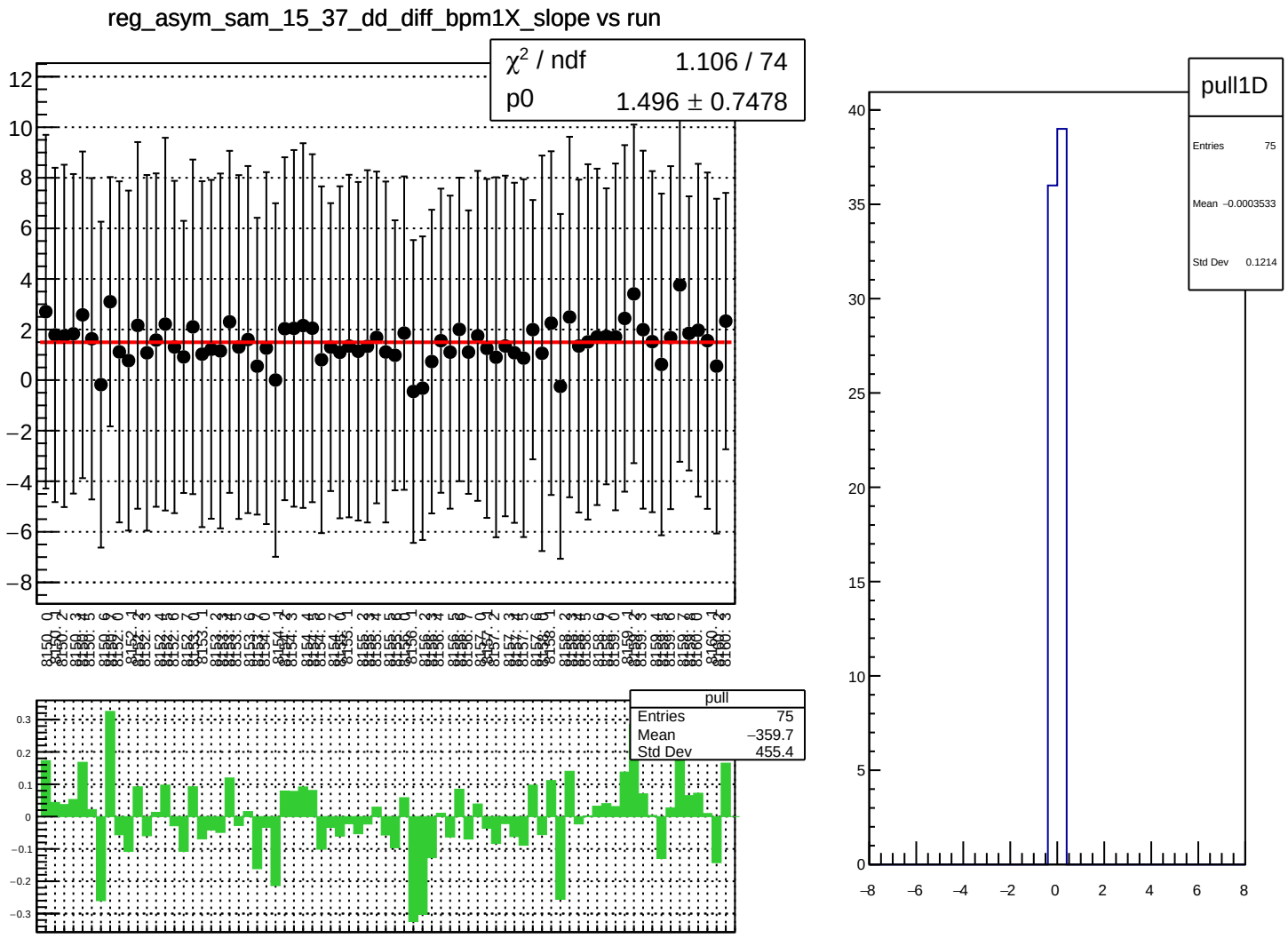

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.945 / 74
p0 −11.72 ± 0.5607
pull
Entries 75
Mean 1324
Std Dev 1287

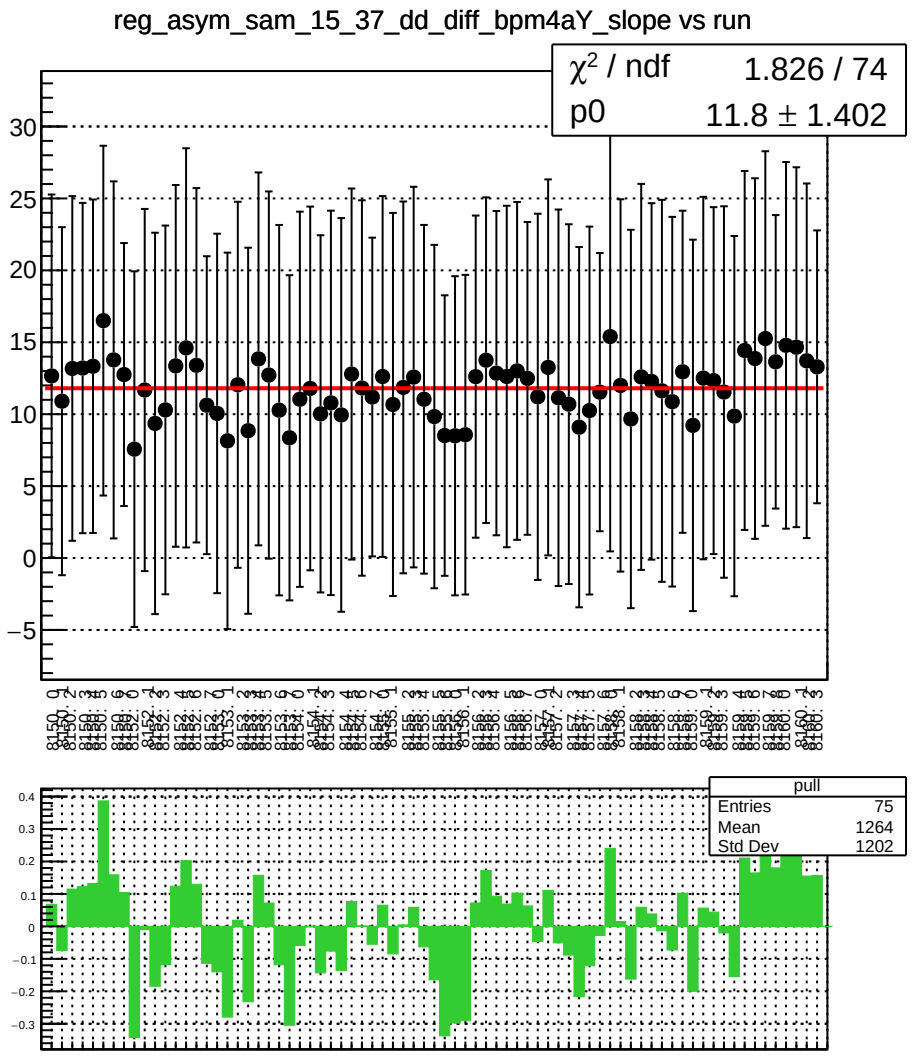

pull1D
Entries 75
Mean 0.0005988
Std Dev 0.161

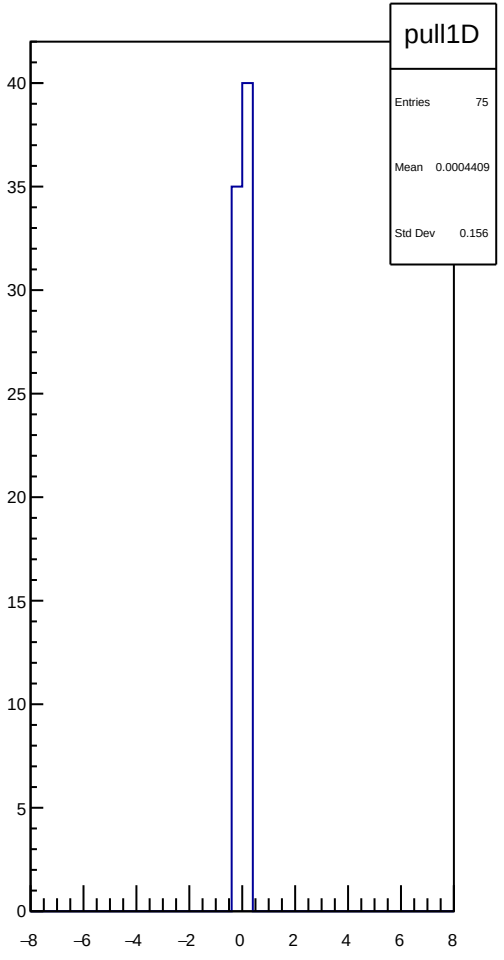

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.695 / 74
p0 9.418 ± 1.111
pull
Entries 75
Mean −1523
Std Dev 1557

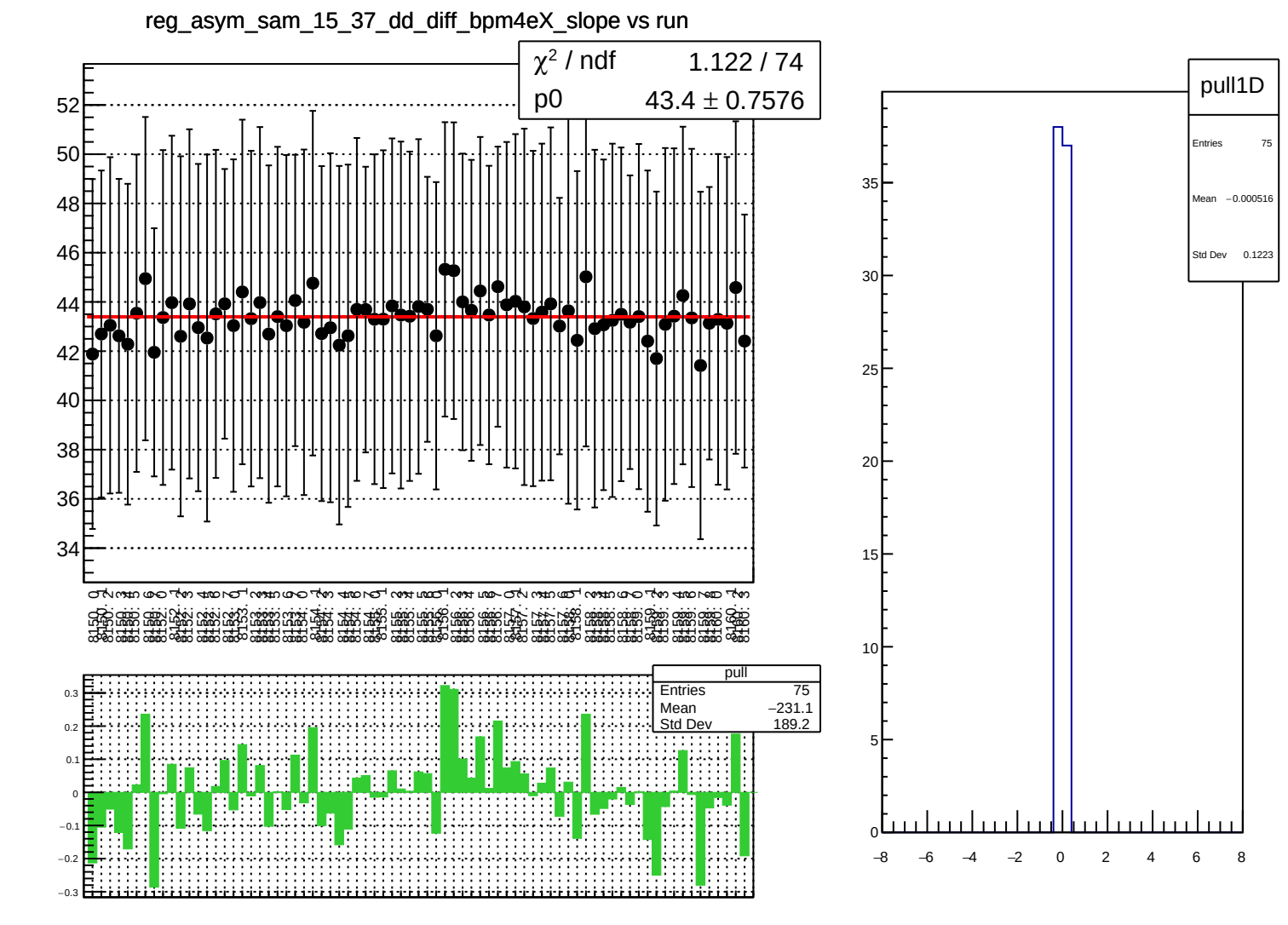

pull1D
Entries 75
Mean −0.001664
Std Dev 0.3203

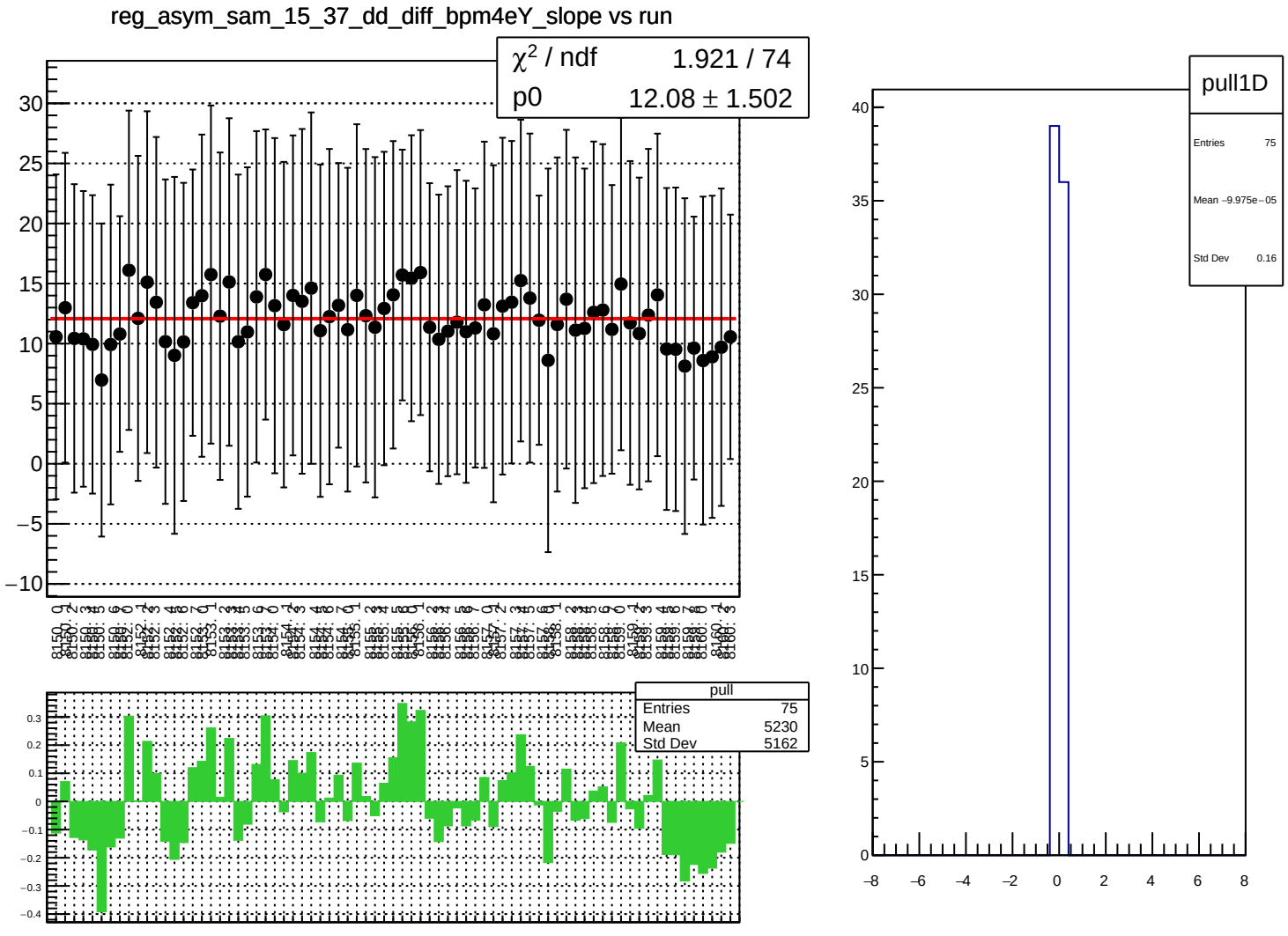

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 2.512 / 74
p0 0.2414 ± 0.05212
pull
Entries 75
Mean 249.2
Std Dev 214.2
pull1D
Entries 75
Mean 0.002649
Std Dev 0.183

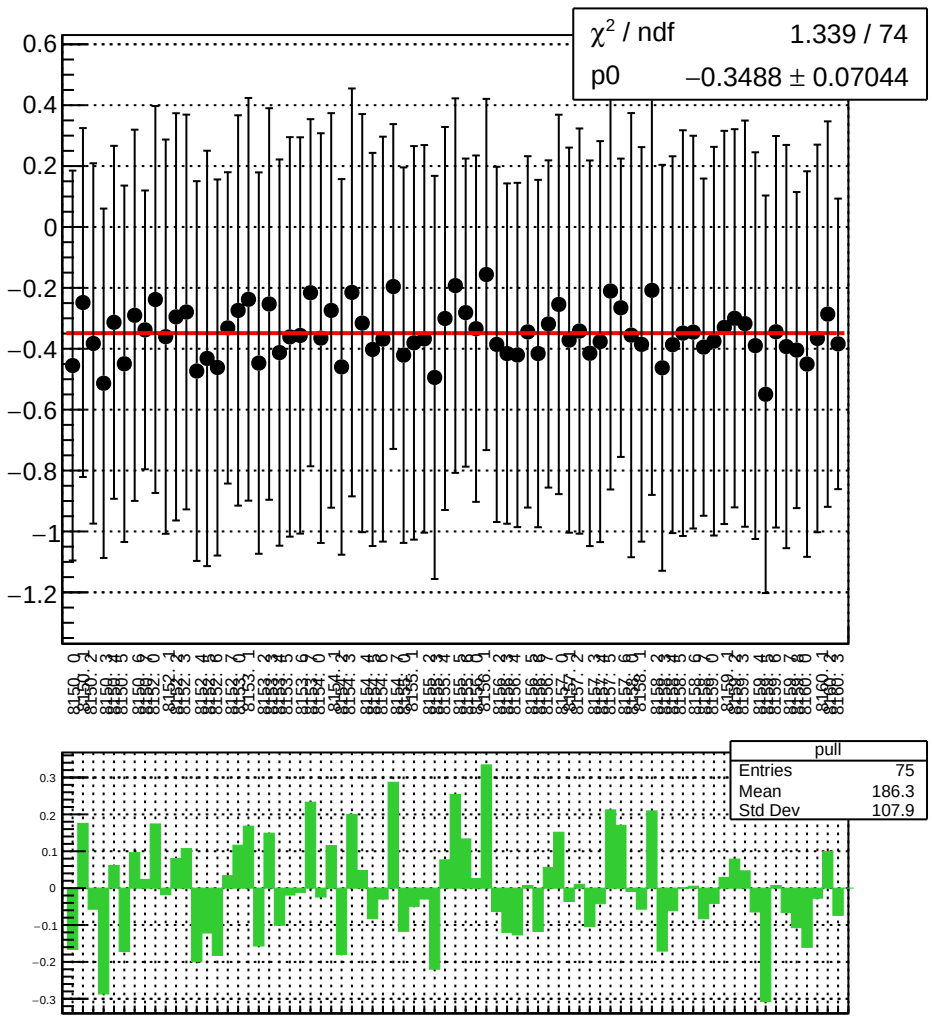

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 1.106 / 74
p0 1.496 ± 0.7478
pull
Entries 75
Mean −359.7
Std Dev 455.4
pull1D
Entries 75
Mean −0.0003533
Std Dev 0.1214

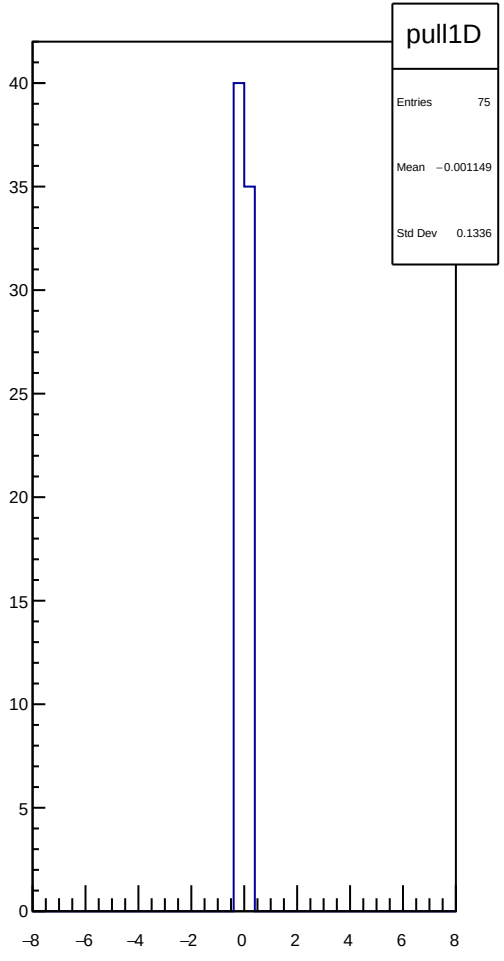

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.826 / 74
p0 11.8 ± 1.402
pull
Entries 75
Mean 1264
Std Dev 1202

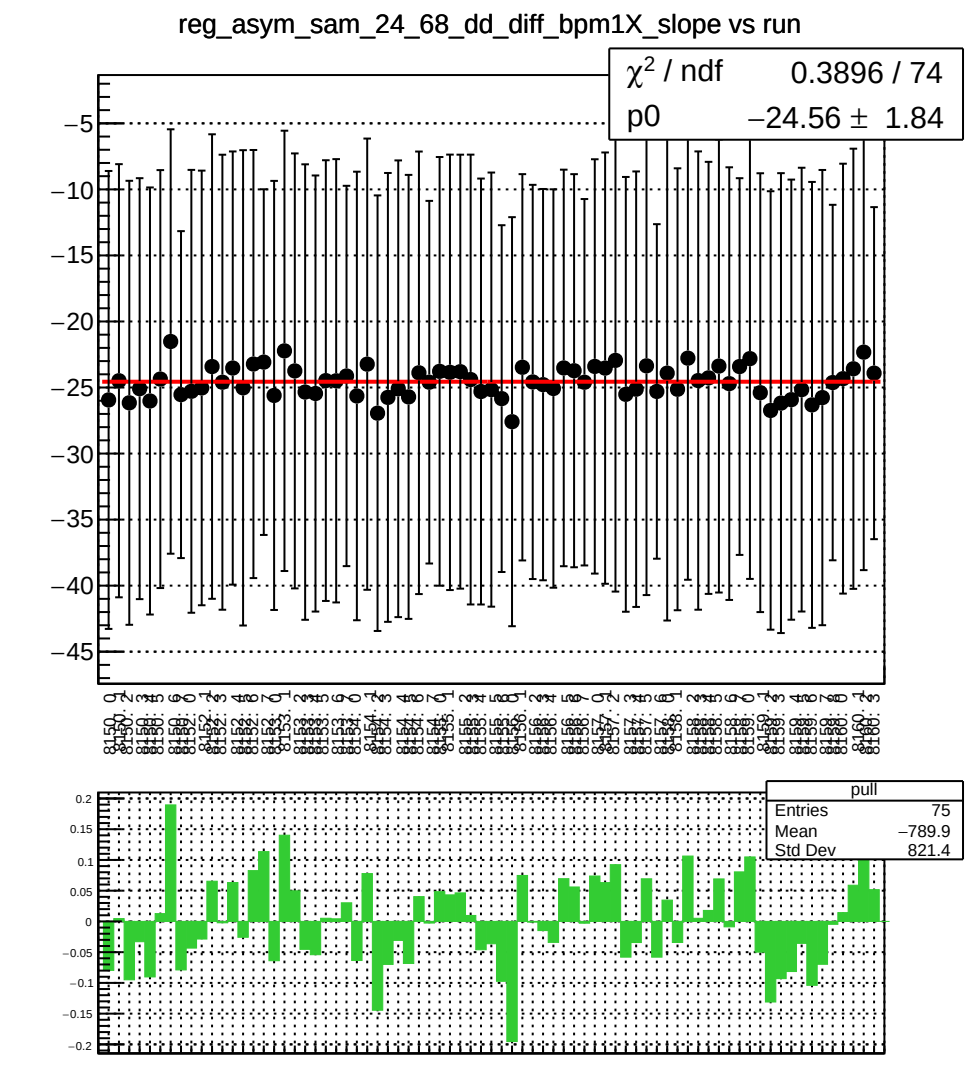

pull1D
Entries 75
Mean 0.0004409
Std Dev 0.156

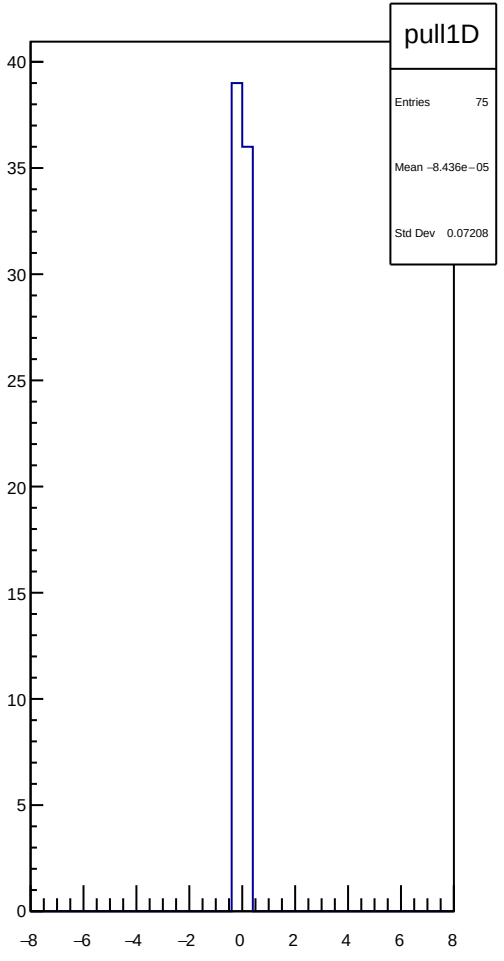

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.122 / 74
p0 43.4 ± 0.7576
pull
Entries 75
Mean −231.1
Std Dev 189.2
pull1D
Entries 75
Mean −0.000516
Std Dev 0.1223

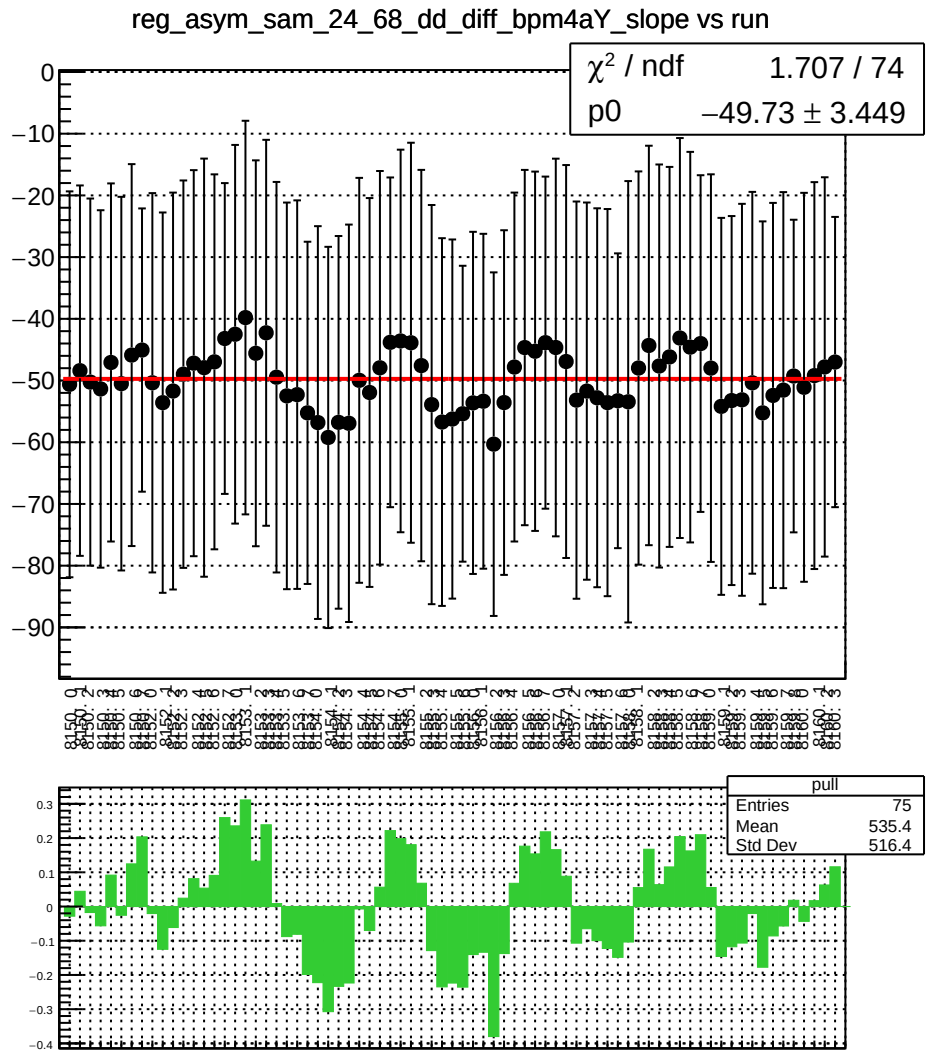

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.921 / 74
p0 12.08 ± 1.502
pull
Entries 75
Mean 5230
Std Dev 5162
pull1D
Entries 75
Mean −9.975e−05
Std Dev 0.16

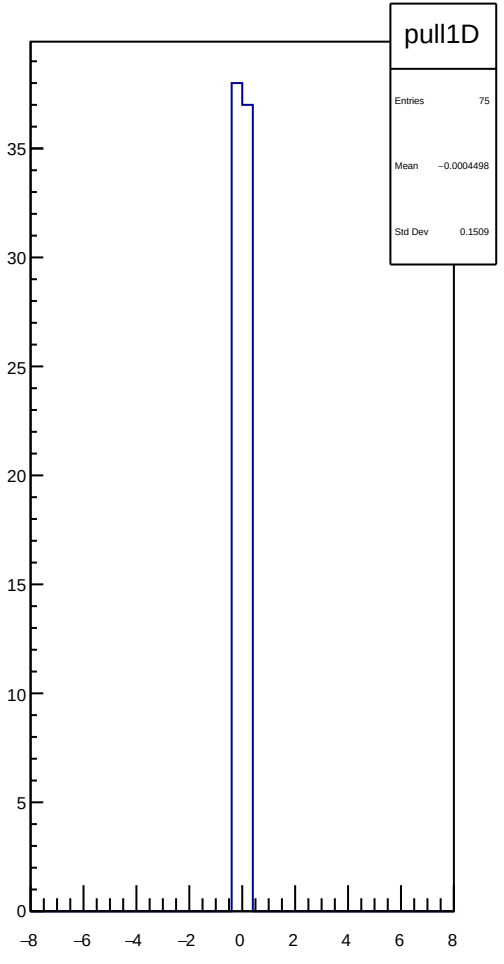

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.339 / 74
p0 −0.3488 ± 0.07044
pull
Entries 75
Mean 186.3
Std Dev 107.9

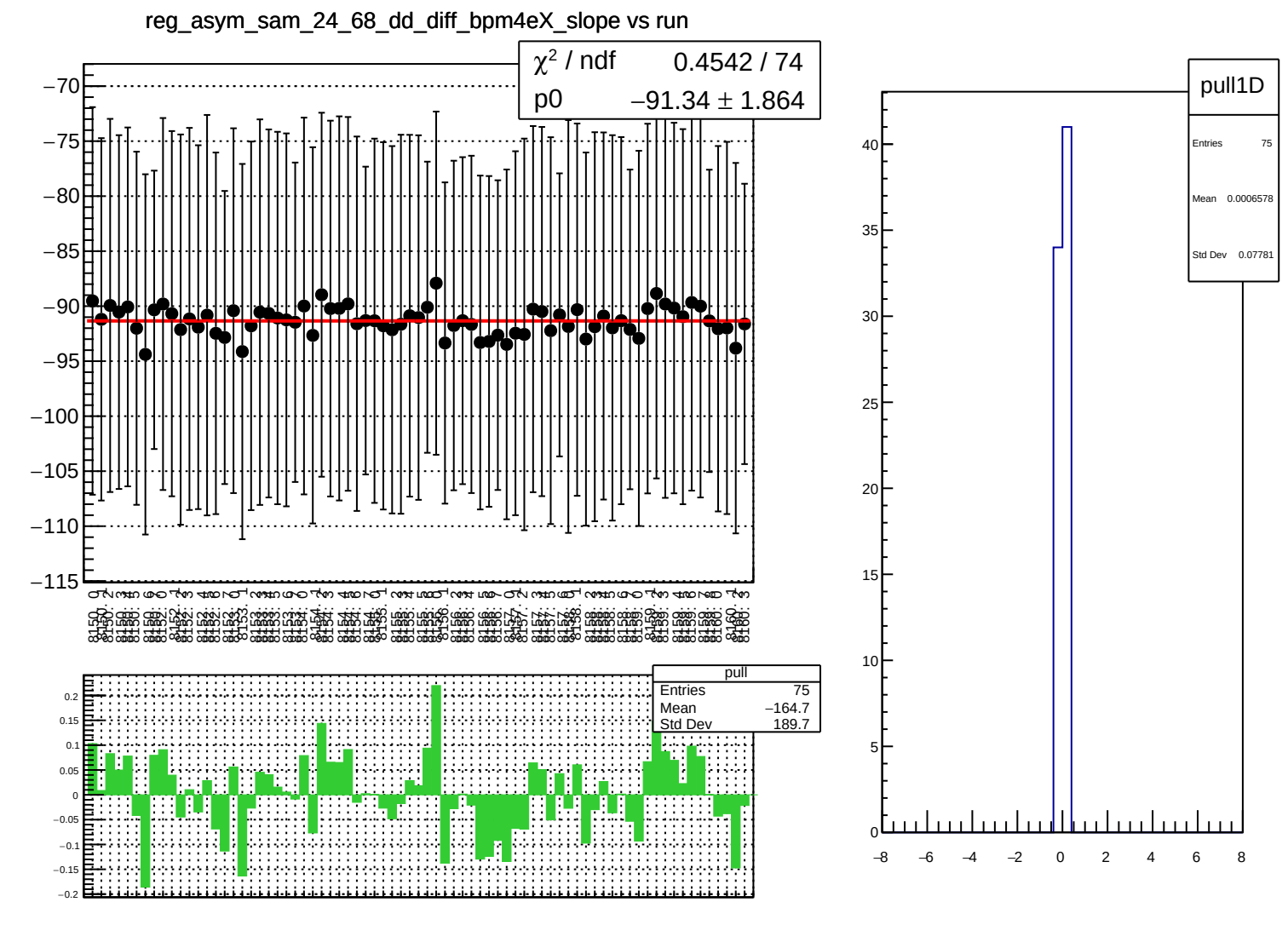

pull1D
Entries 75
Mean −0.001149
Std Dev 0.1336

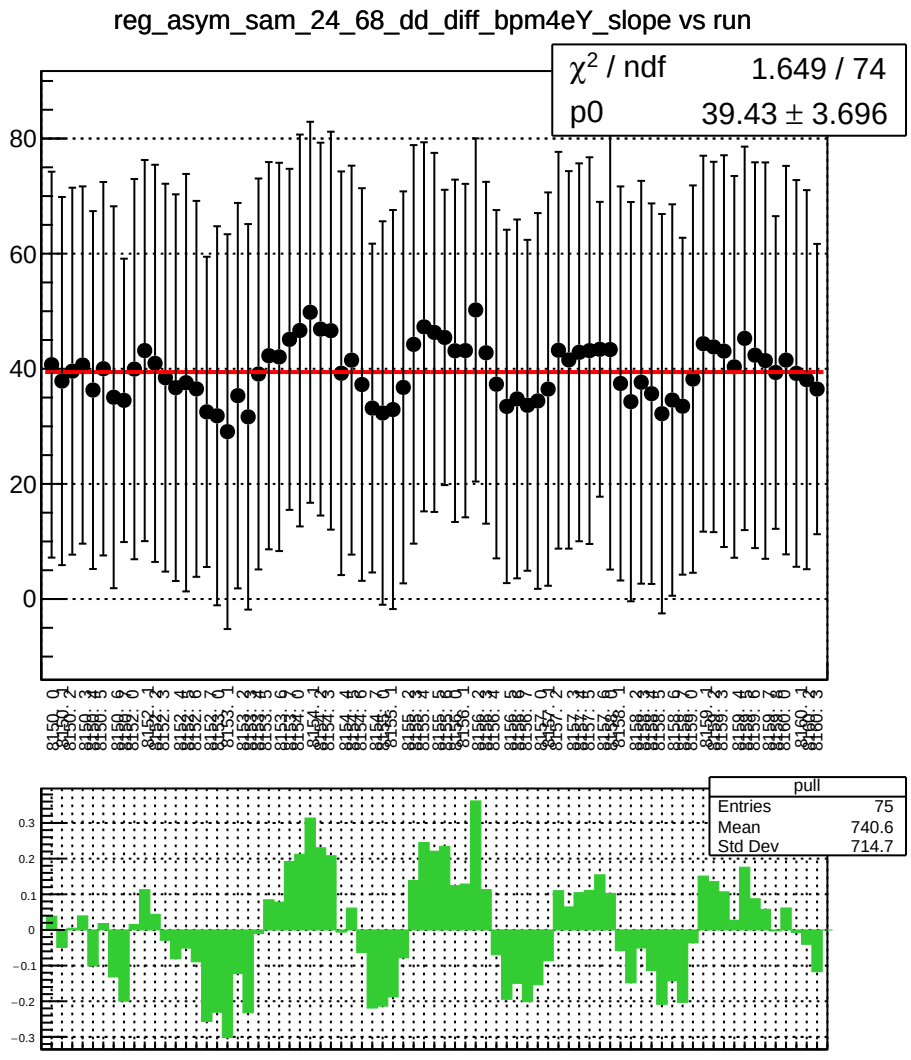

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 0.3896 / 74
p0 −24.56 ± 1.84
pull
Entries 75
Mean −789.9
Std Dev 821.4

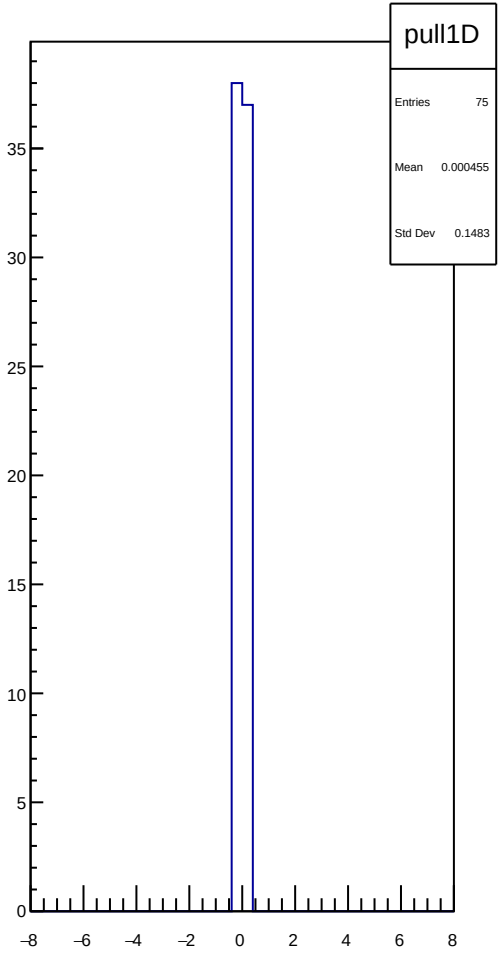

pull1D
Entries 75
Mean −8.436e−05
Std Dev 0.07208

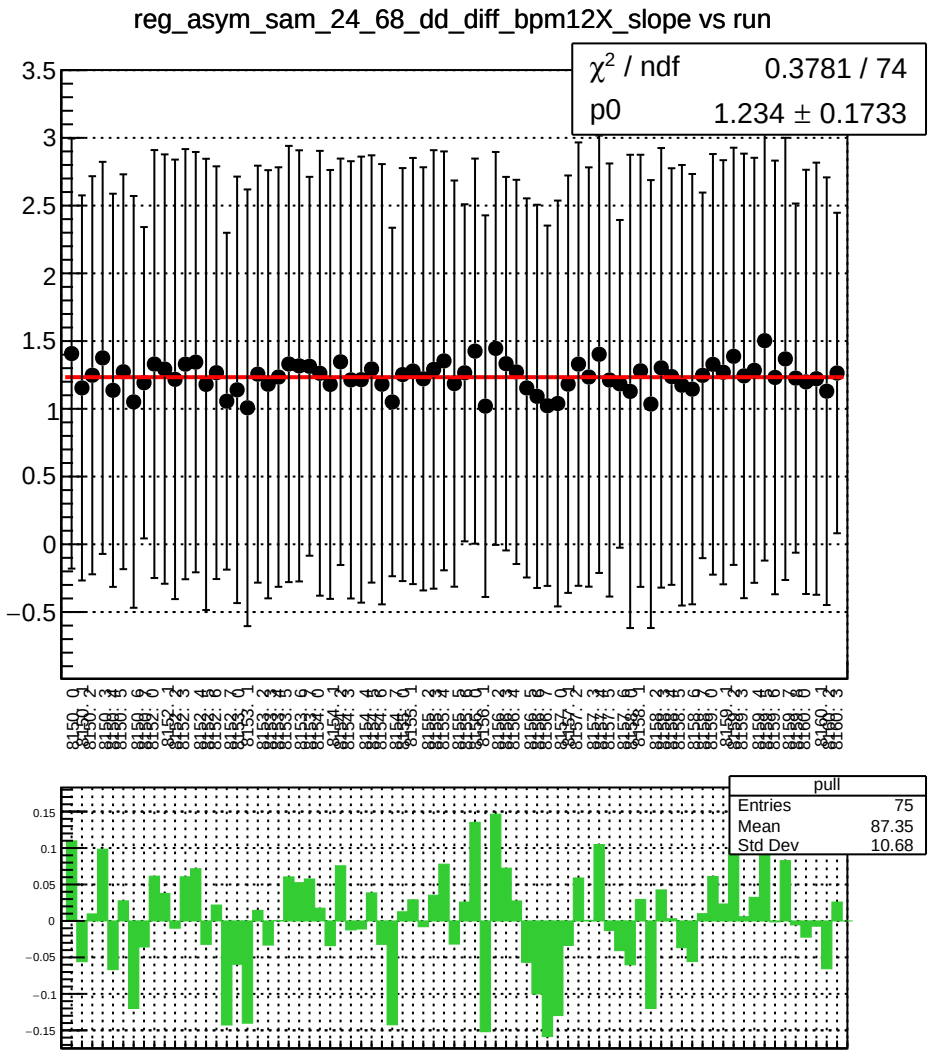

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.707 / 74
p0 −49.73 ± 3.449
pull
Entries 75
Mean 535.4
Std Dev 516.4

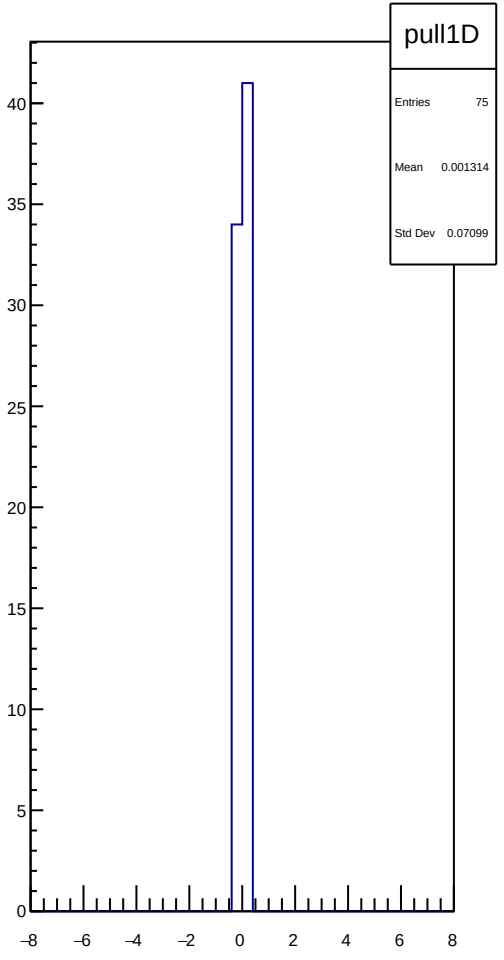

pull1D
Entries 75
Mean −0.0004498
Std Dev 0.1509

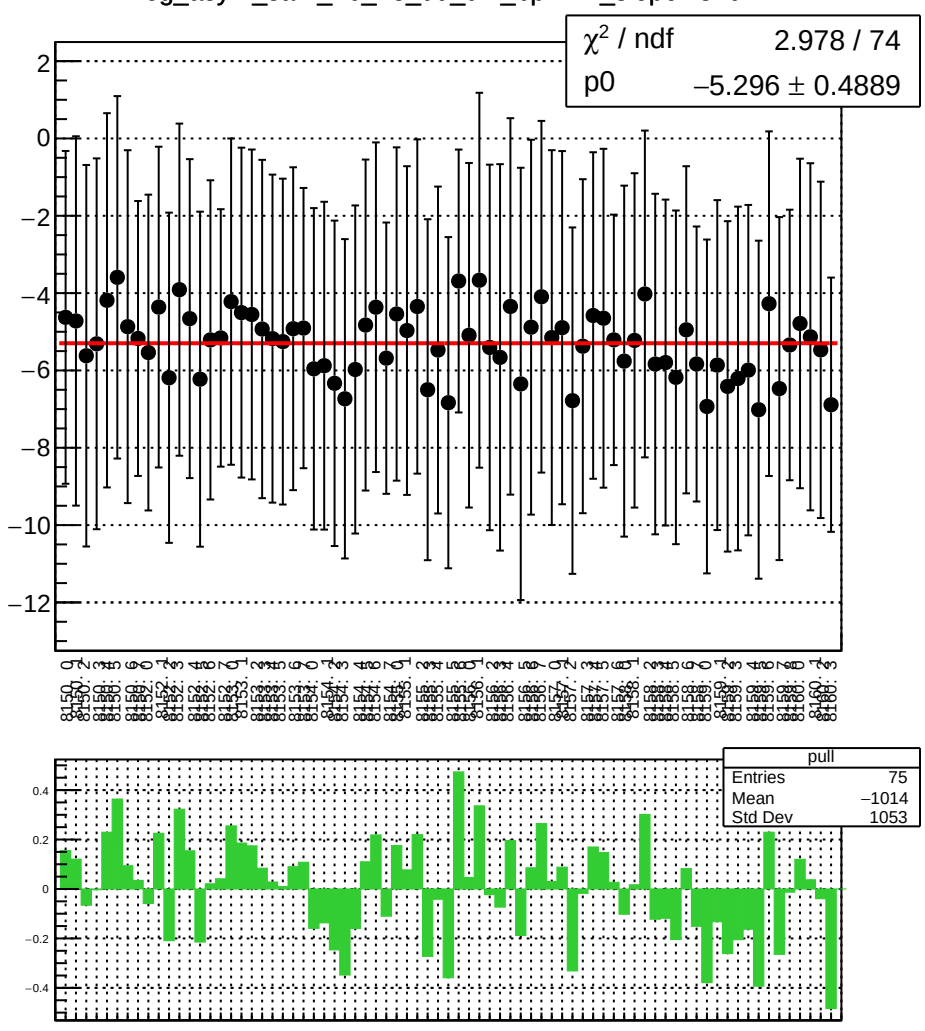

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.4542 / 74
p0 −91.34 ± 1.864
pull
Entries 75
Mean −164.7
Std Dev 189.7
pull1D
Entries 75
Mean 0.0006578
Std Dev 0.07781

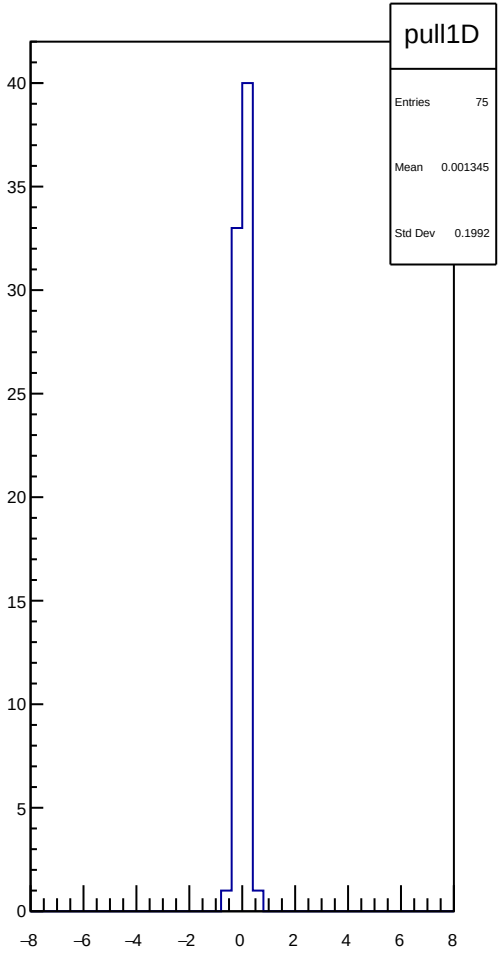

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.649 / 74
p0 39.43 ± 3.696
pull
Entries 75
Mean 740.6
Std Dev 714.7

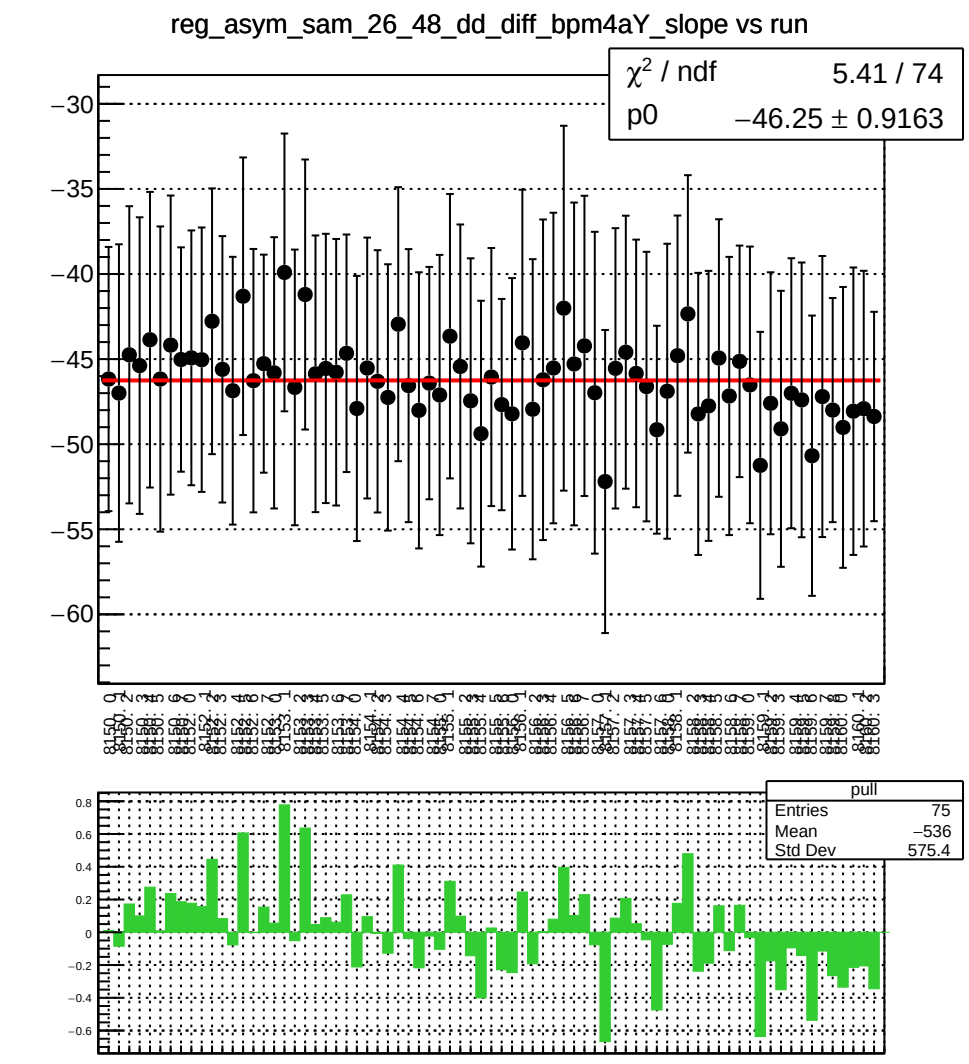

pull1D
Entries 75
Mean 0.000455
Std Dev 0.1483

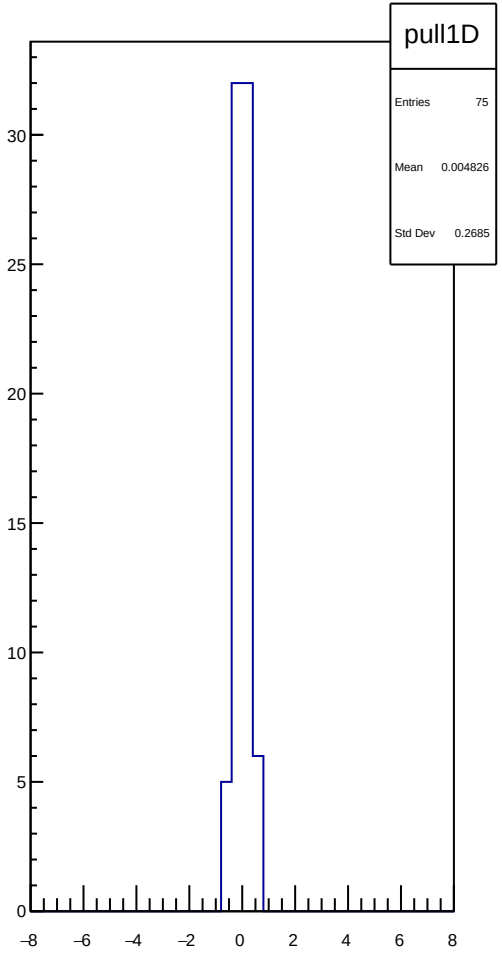

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.3781 / 74
p0 1.234 ± 0.1733
pull
Entries 75
Mean 87.35
Std Dev 10.68

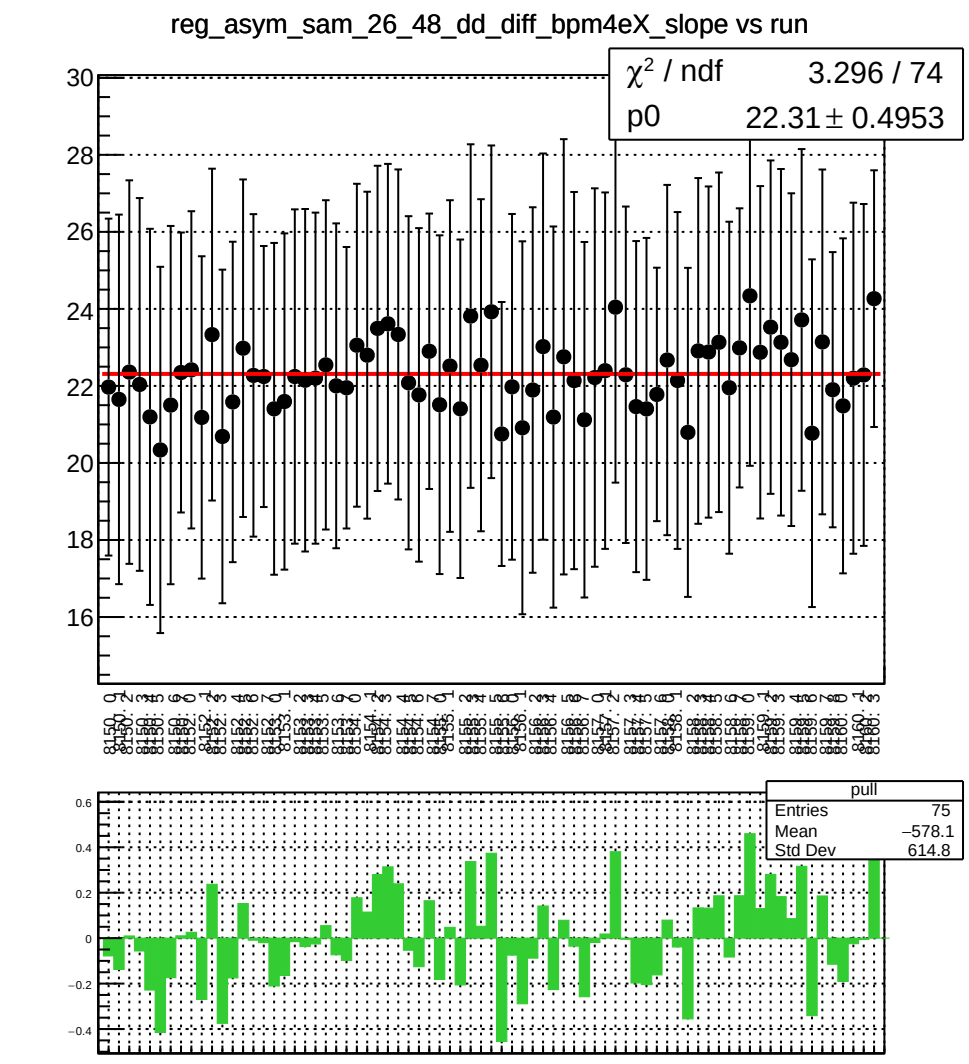

pull1D
Entries 75
Mean 0.001314
Std Dev 0.07099

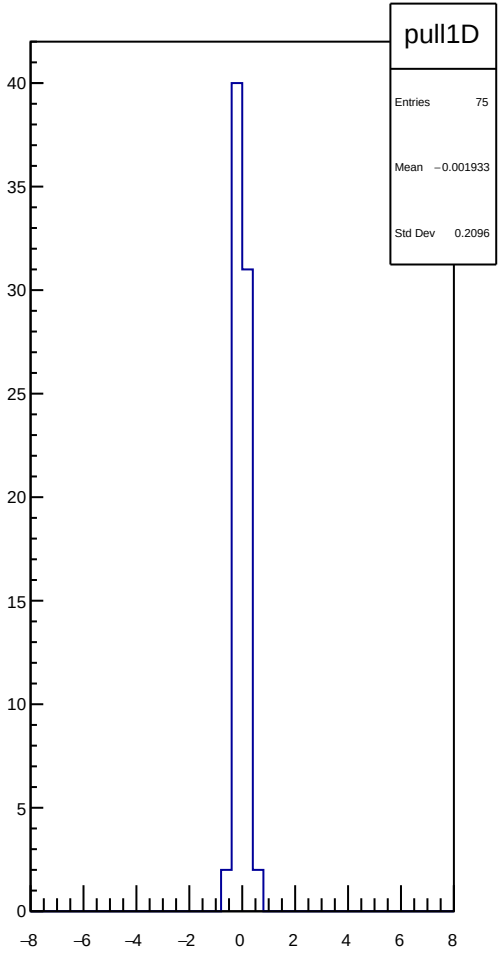

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.978 / 74
p0 −5.296 ± 0.4889
pull
Entries 75
Mean −1014
Std Dev 1053

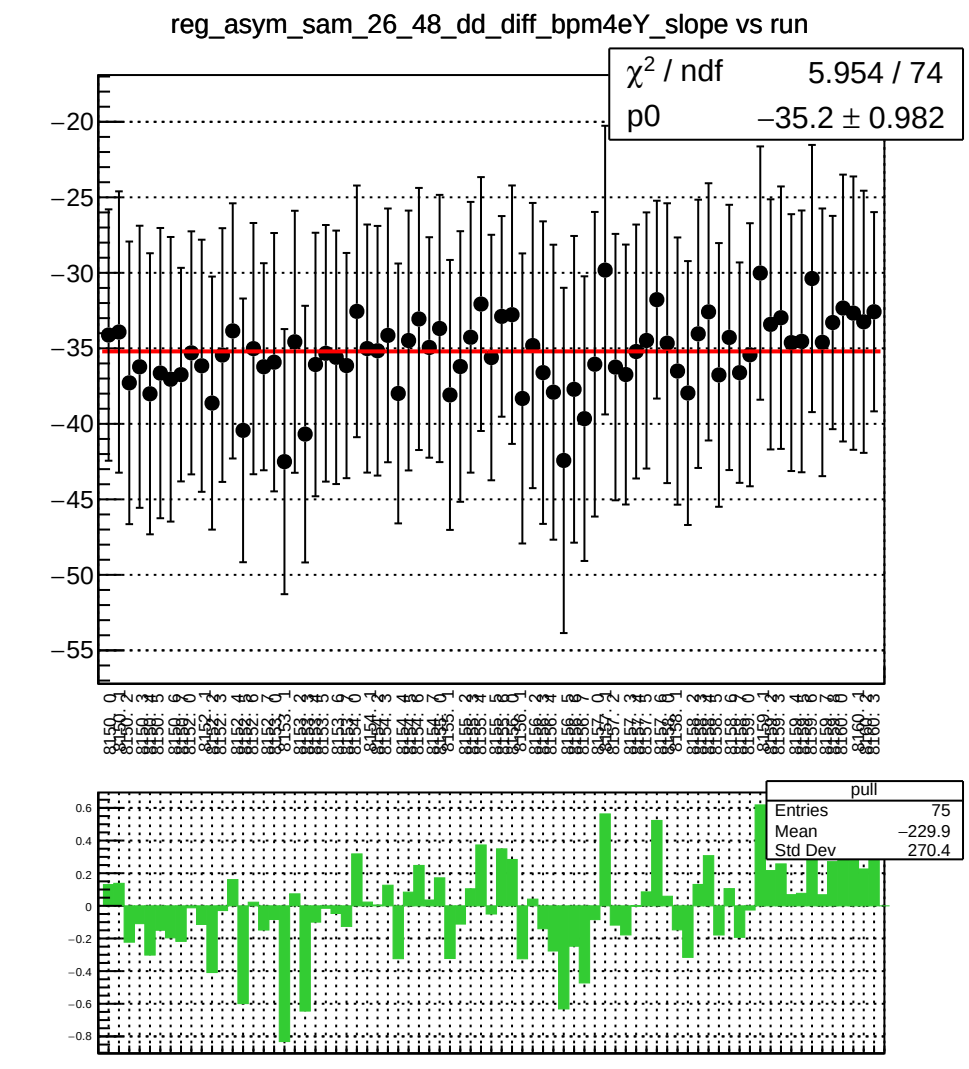

pull1D
Entries 75
Mean 0.001345
Std Dev 0.1992

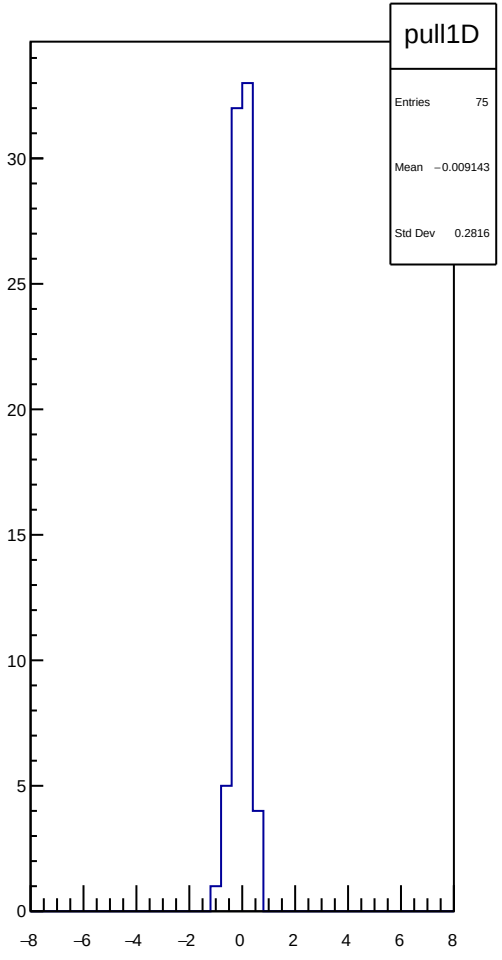

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.41 / 74
p0 −46.25 ± 0.9163
pull
Entries 75
Mean −536
Std Dev 575.4

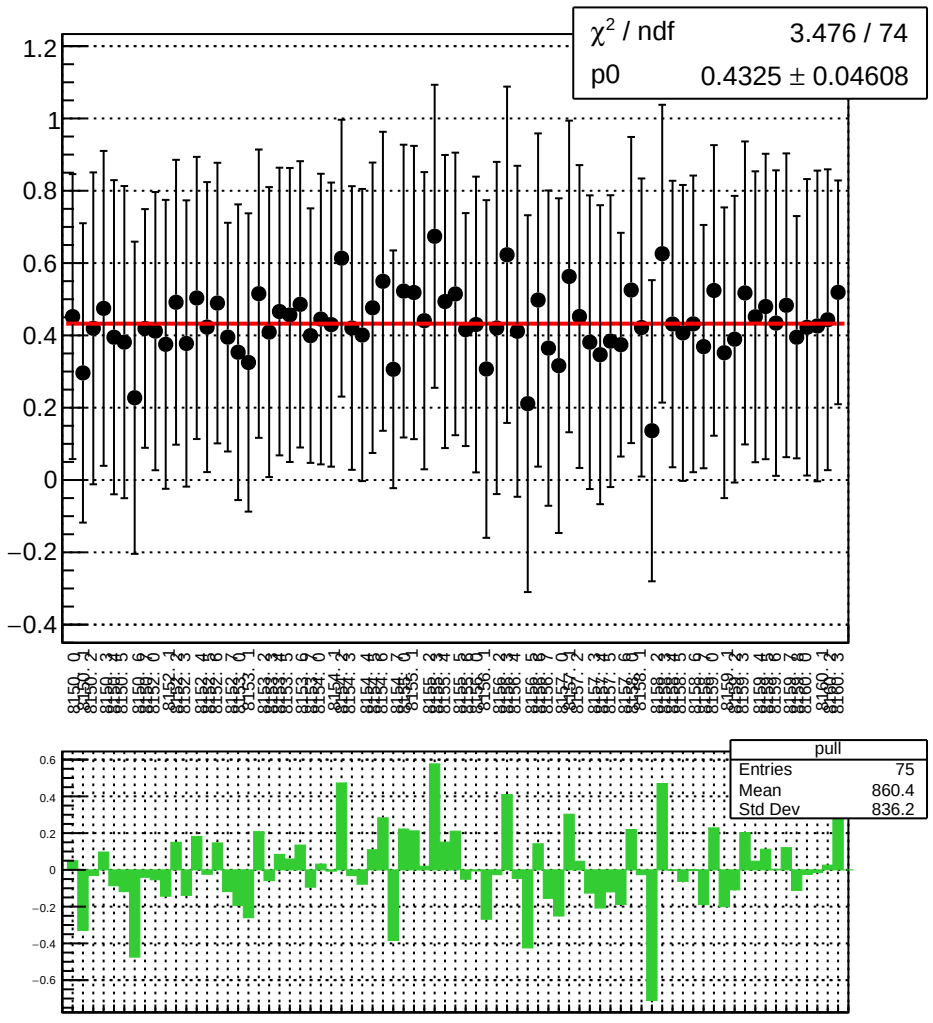

pull1D
Entries 75
Mean 0.004826
Std Dev 0.2685

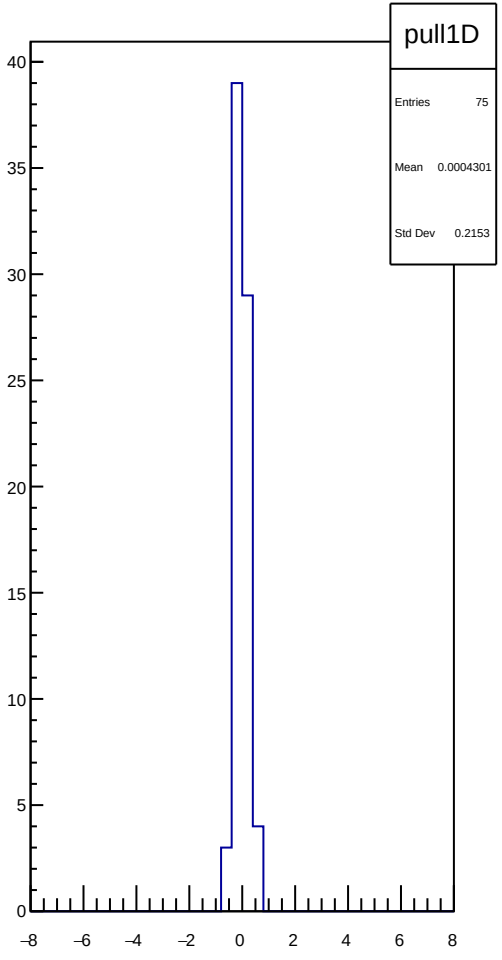

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.296 / 74
p0 22.31 ± 0.4953
pull
Entries 75
Mean −578.1
Std Dev 614.8

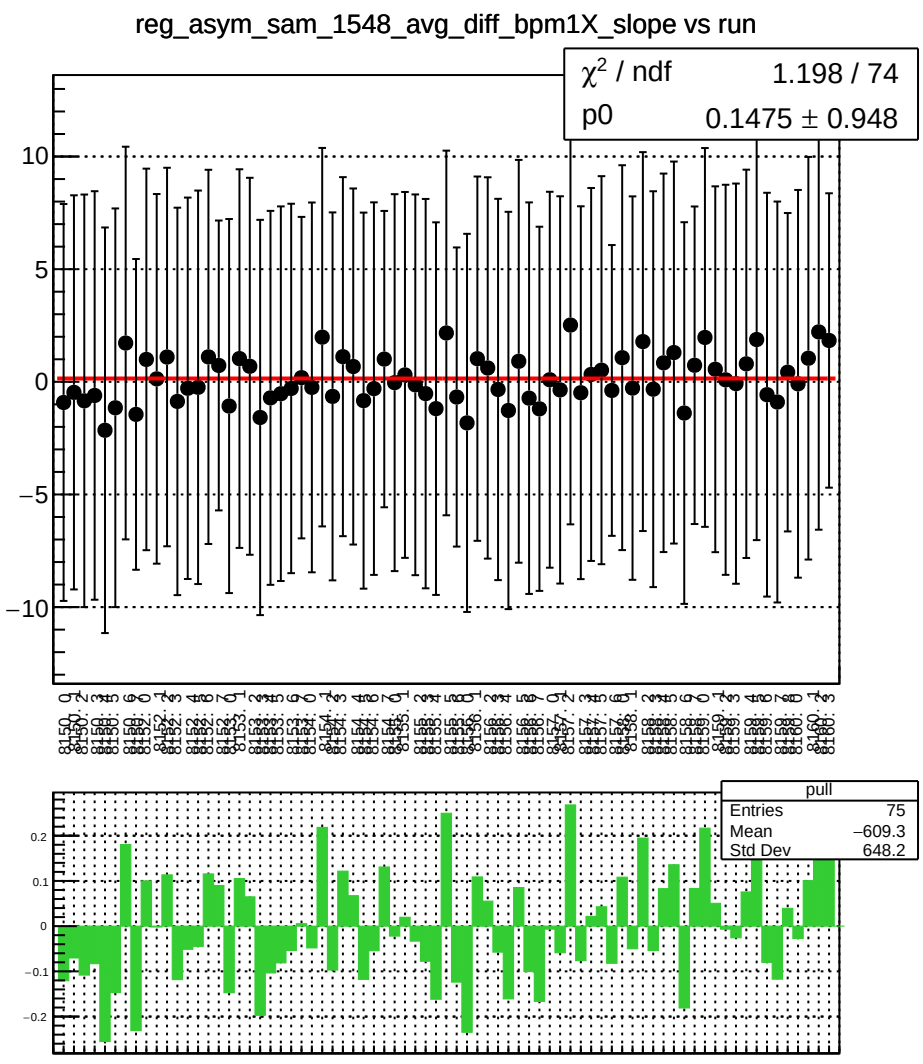

pull1D
Entries 75
Mean −0.001933
Std Dev 0.2096

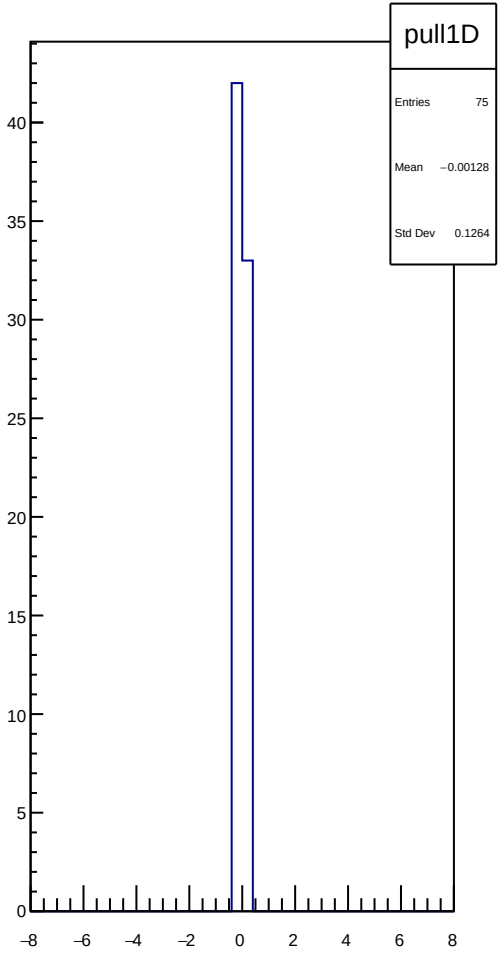

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.954 / 74
p0 −35.2 ± 0.982
pull
Entries 75
Mean −229.9
Std Dev 270.4

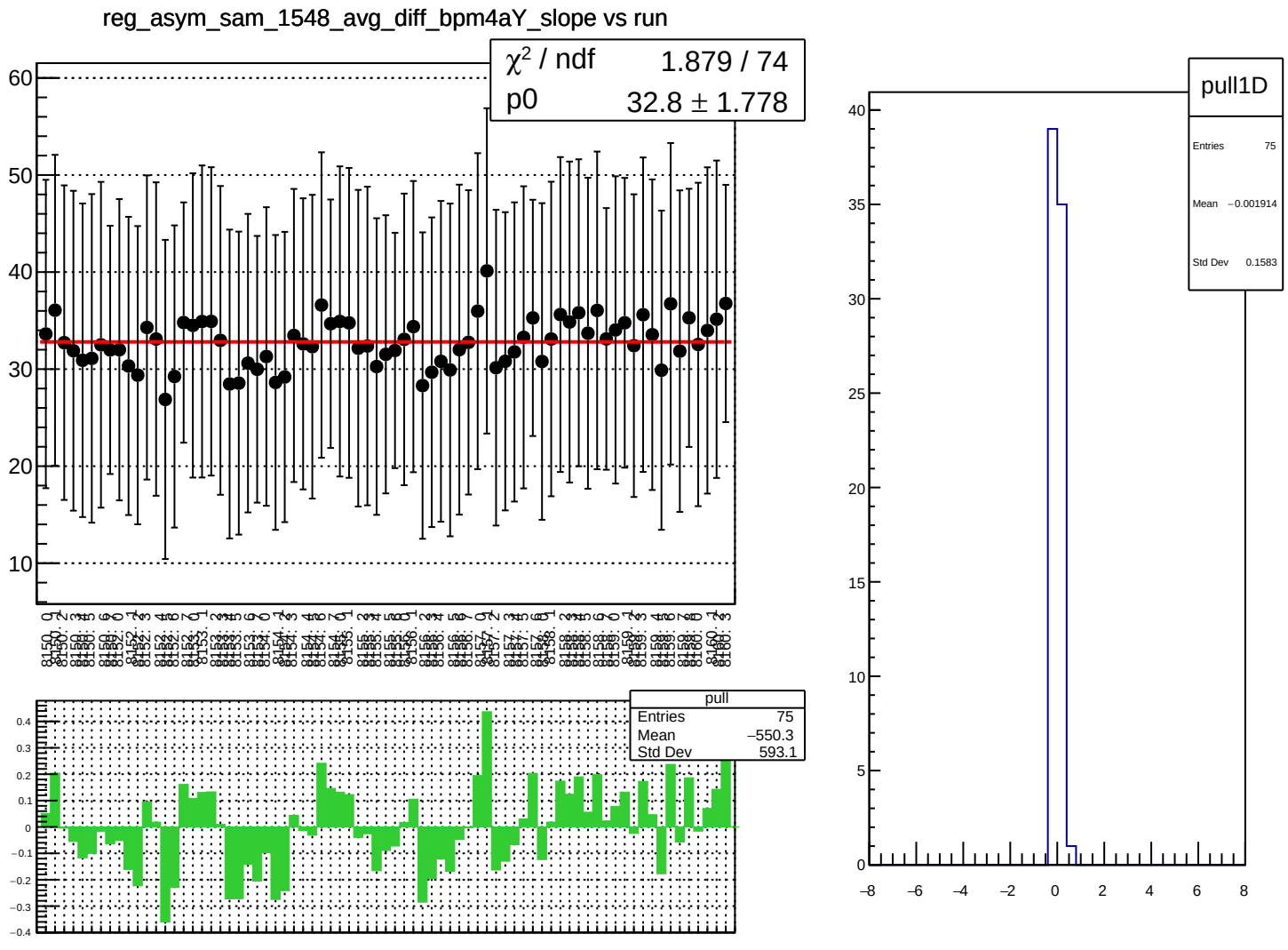

pull1D
Entries 75
Mean −0.009143
Std Dev 0.2816

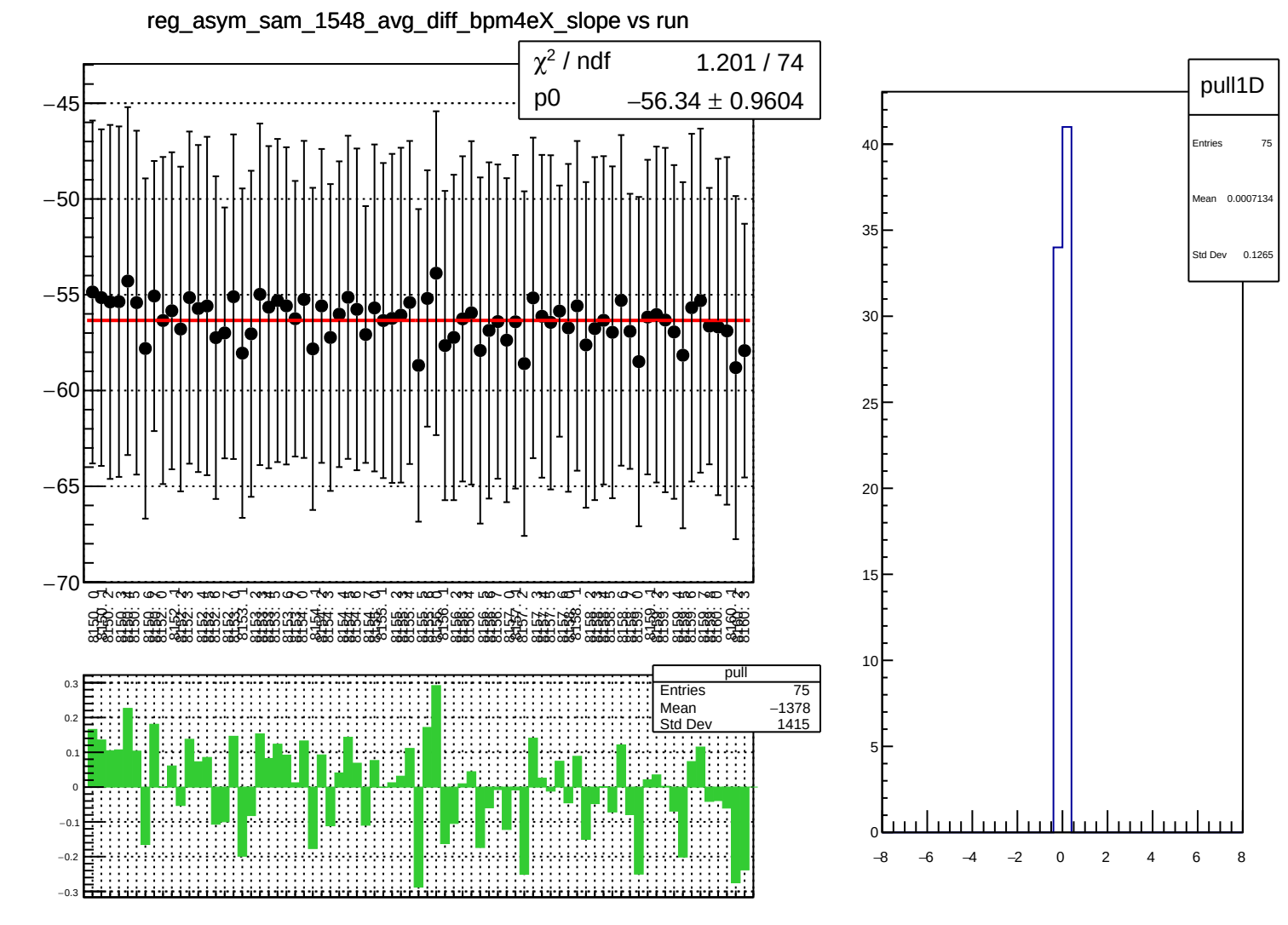

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.476 / 74
p0 0.4325 ± 0.04608
pull
Entries 75
Mean 860.4
Std Dev 836.2

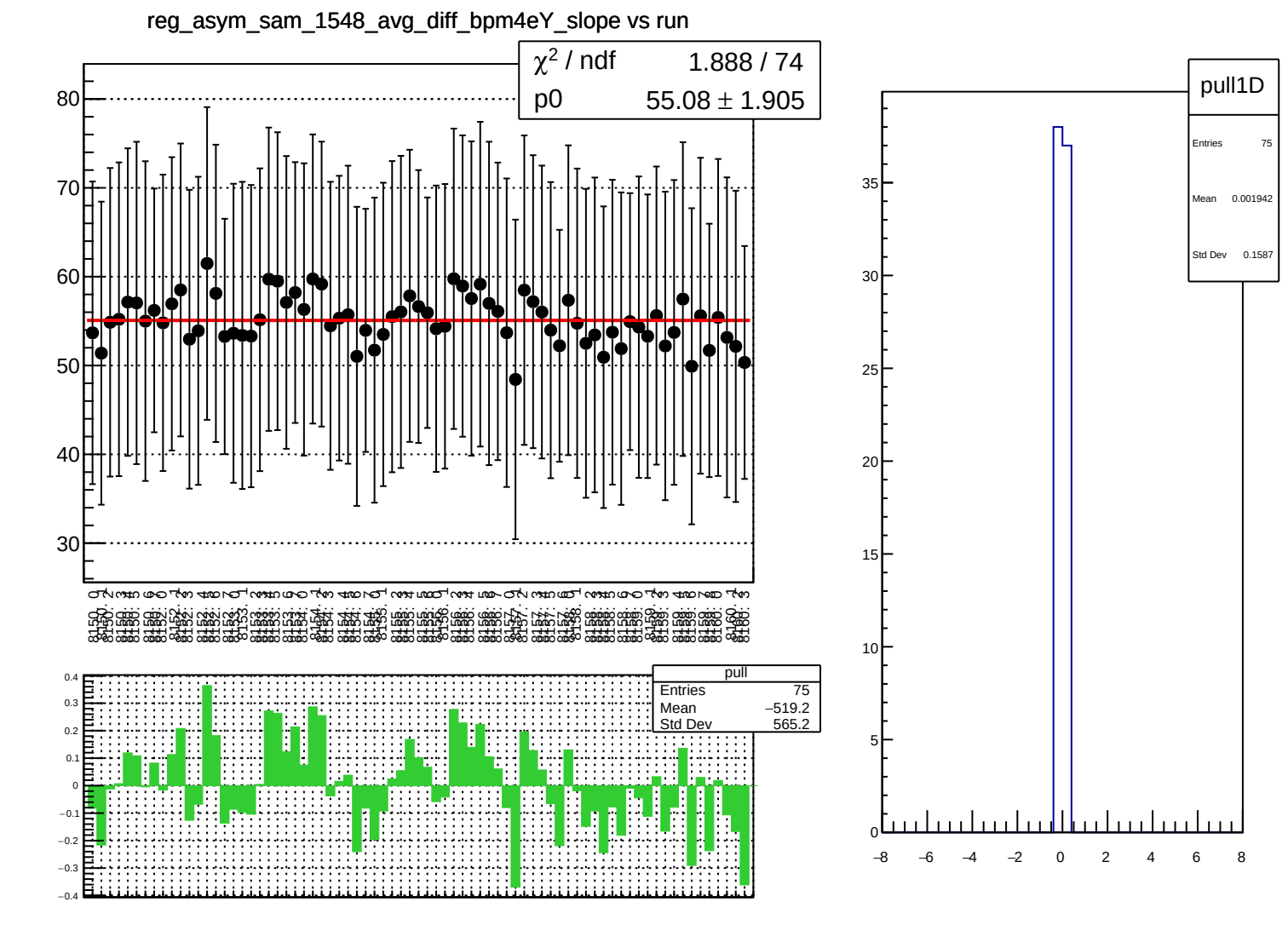

pull1D
Entries 75
Mean 0.0004301
Std Dev 0.2153

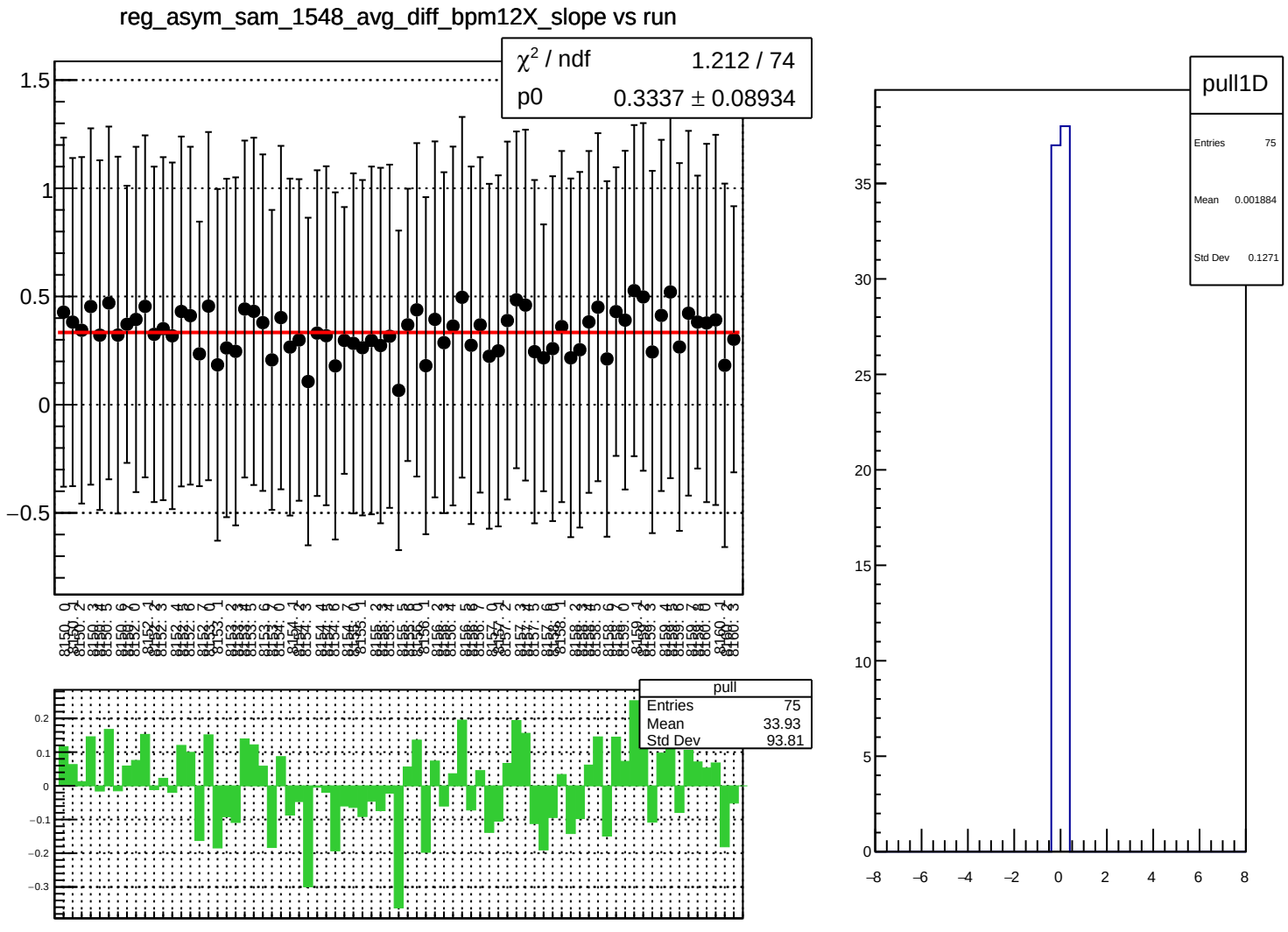

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 1.198 / 74
p0 0.1475 ± 0.948
pull
Entries 75
Mean −609.3
Std Dev 648.2

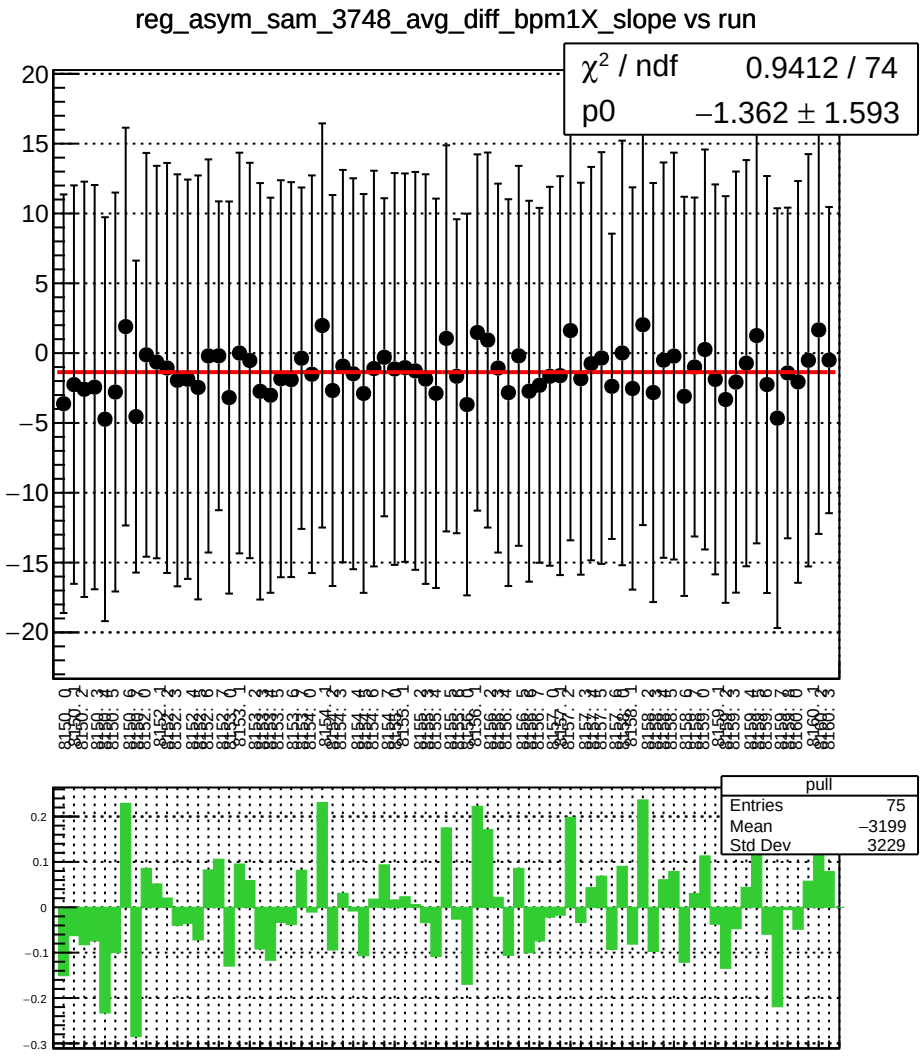

pull1D
Entries 75
Mean −0.00128
Std Dev 0.1264

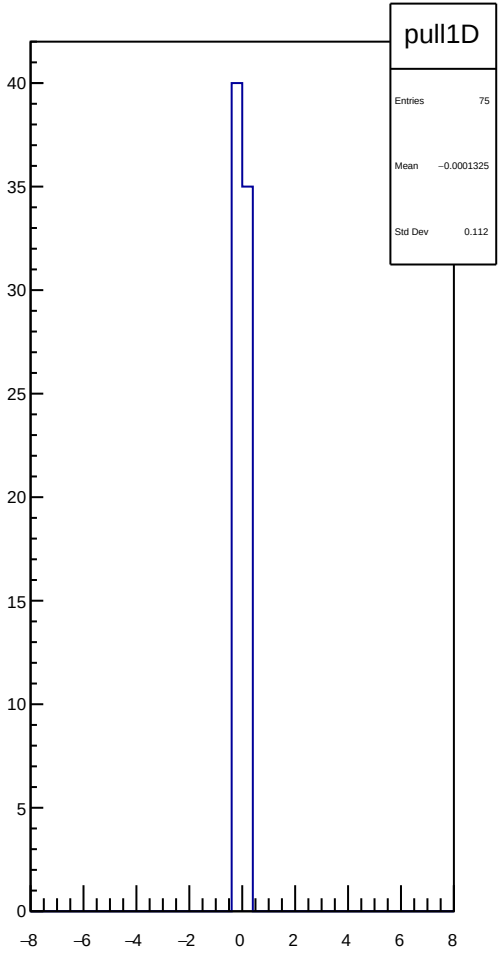

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.879 / 74
p0 32.8 ± 1.778
pull
Entries 75
Mean −550.3
Std Dev 593.1
pull1D
Entries 75
Mean −0.001914
Std Dev 0.1583

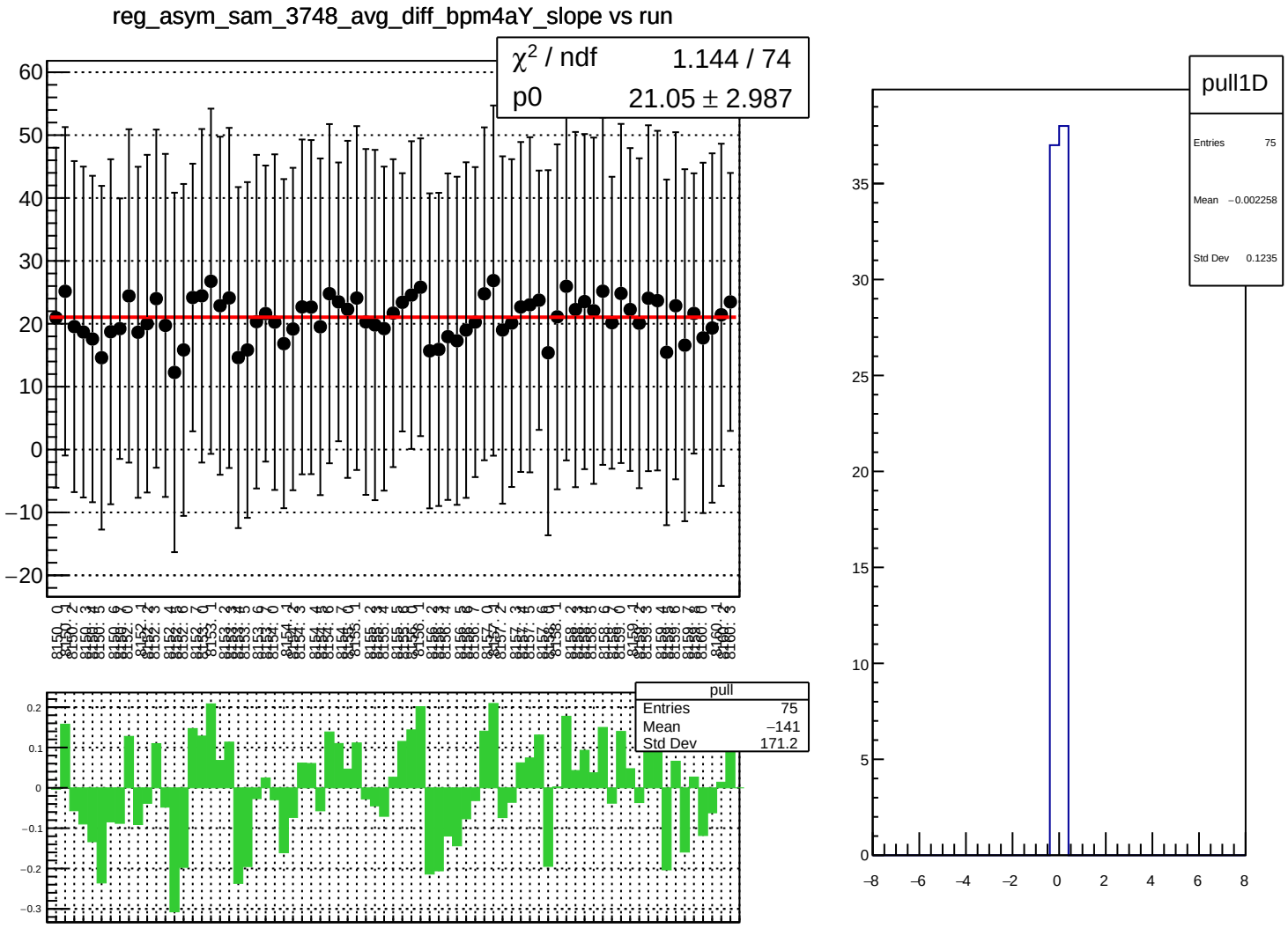

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.201 / 74
p0 −56.34 ± 0.9604
pull
Entries 75
Mean −1378
Std Dev 1415
pull1D
Entries 75
Mean 0.0007134
Std Dev 0.1265

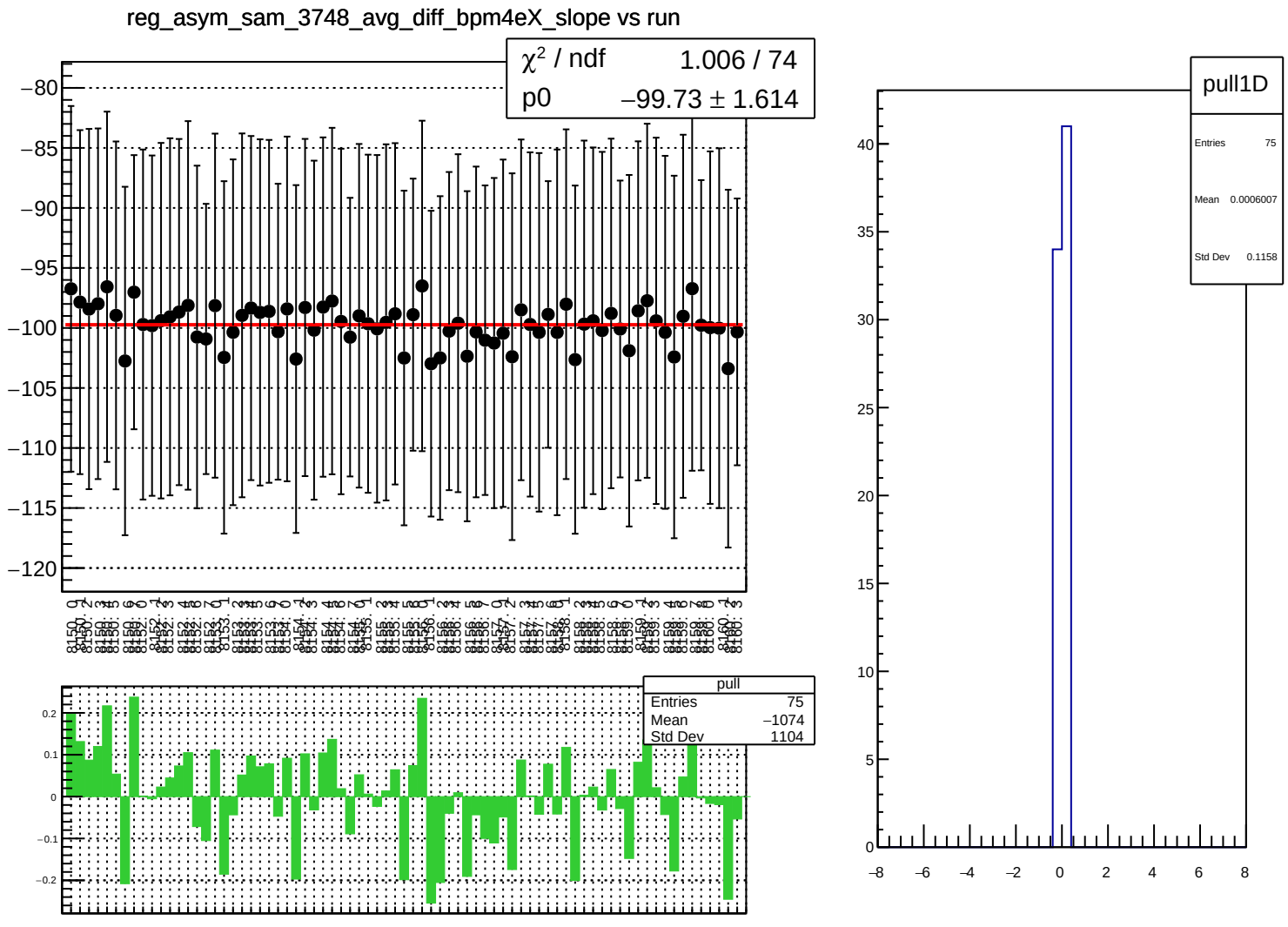

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.888 / 74
p0 55.08 ± 1.905
pull
Entries 75
Mean −519.2
Std Dev 565.2
pull1D
Entries 75
Mean 0.001942
Std Dev 0.1587

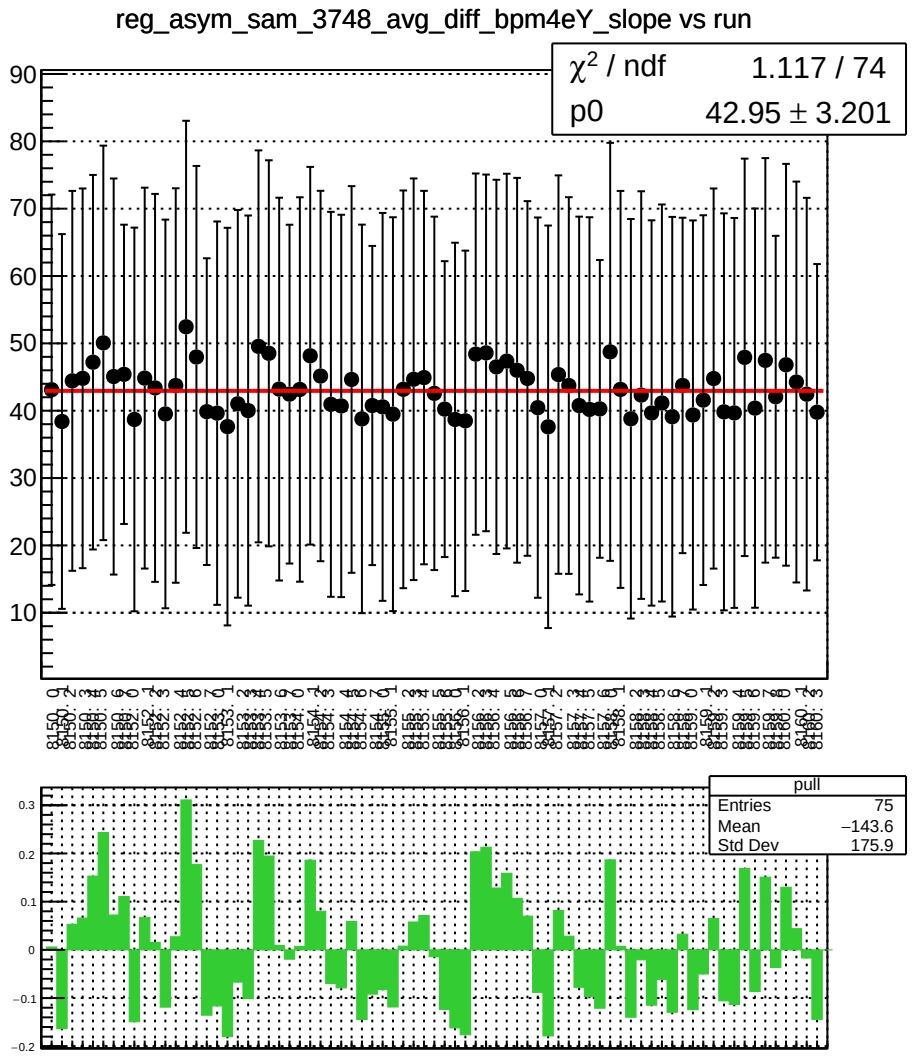

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 1.212 / 74
p0 0.3337 ± 0.08934
pull
Entries 75
Mean 33.93
Std Dev 93.81
pull1D
Entries 75
Mean 0.001884
Std Dev 0.1271

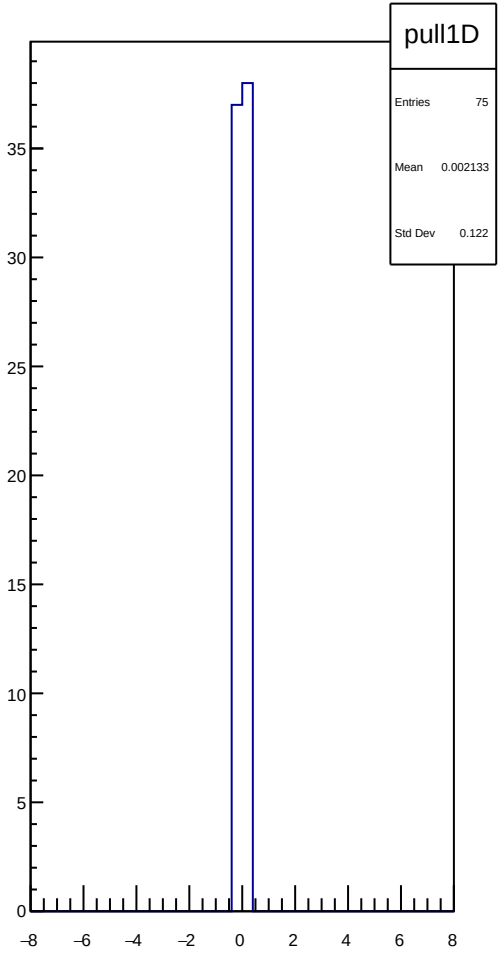

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 0.9412 / 74
p0 −1.362 ± 1.593
pull
Entries 75
Mean −3199
Std Dev 3229

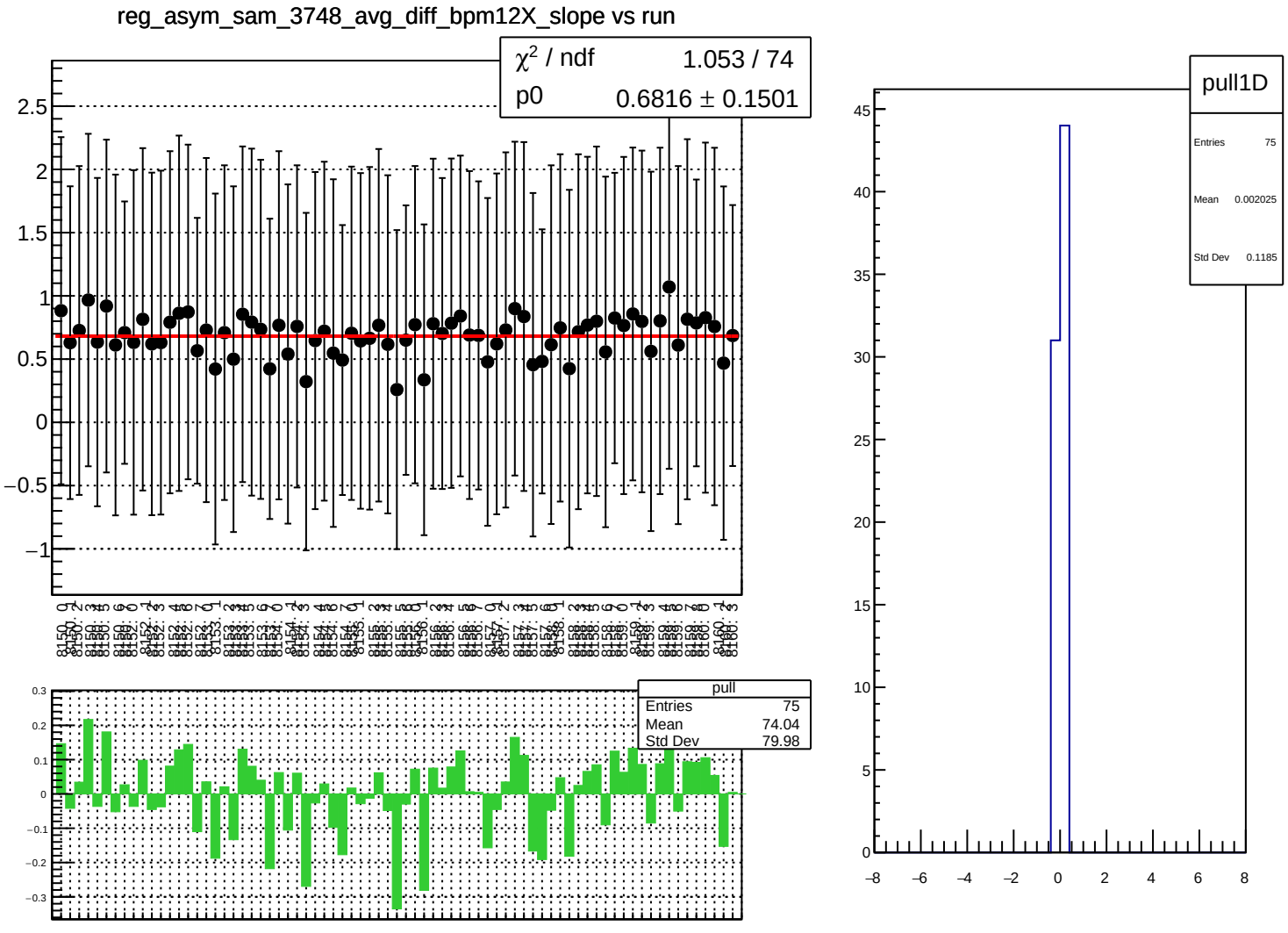

pull1D
Entries 75
Mean −0.0001325
Std Dev 0.112

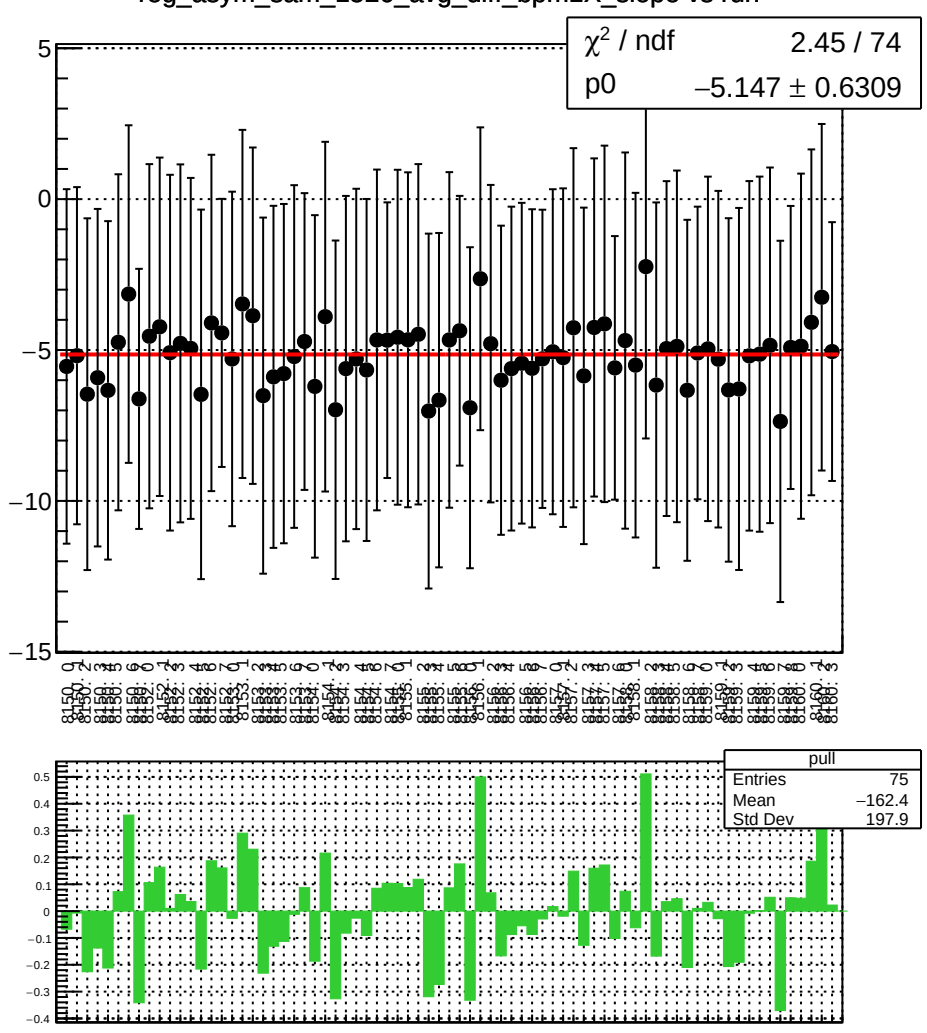

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.144 / 74
p0 21.05 ± 2.987
pull
Entries 75
Mean −141
Std Dev 171.2
pull1D
Entries 75
Mean −0.002258
Std Dev 0.1235

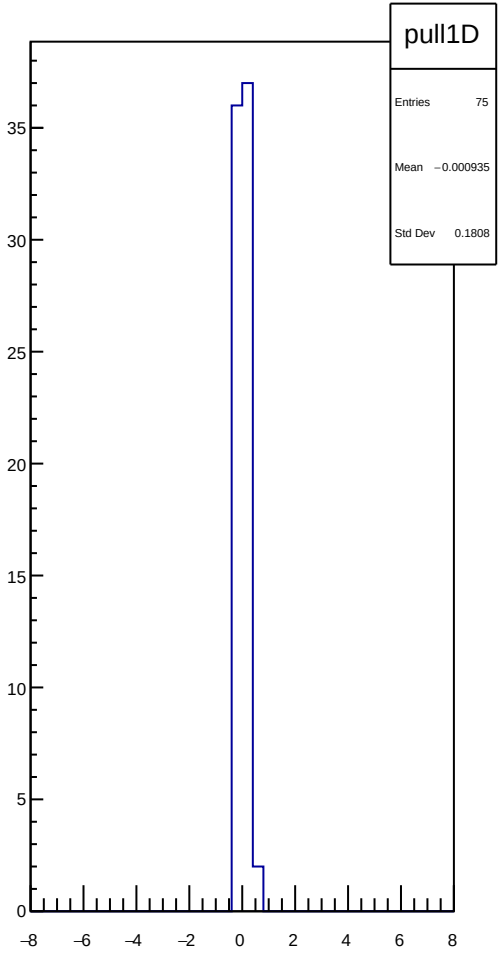

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.006 / 74
p0 −99.73 ± 1.614
pull
Entries 75
Mean −1074
Std Dev 1104
pull1D
Entries 75
Mean 0.0006007
Std Dev 0.1158

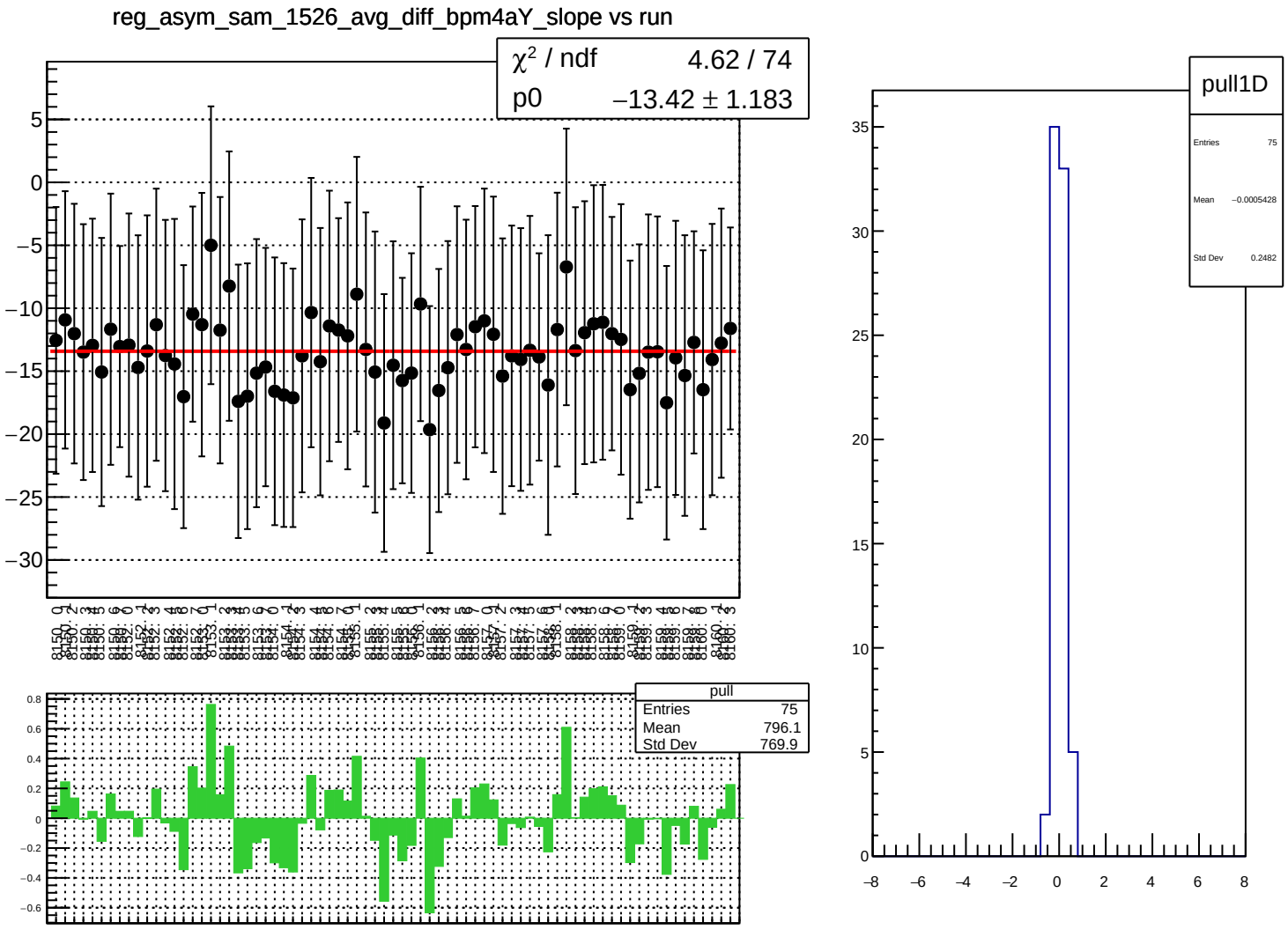

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.117 / 74
p0 42.95 ± 3.201
pull
Entries 75
Mean −143.6
Std Dev 175.9

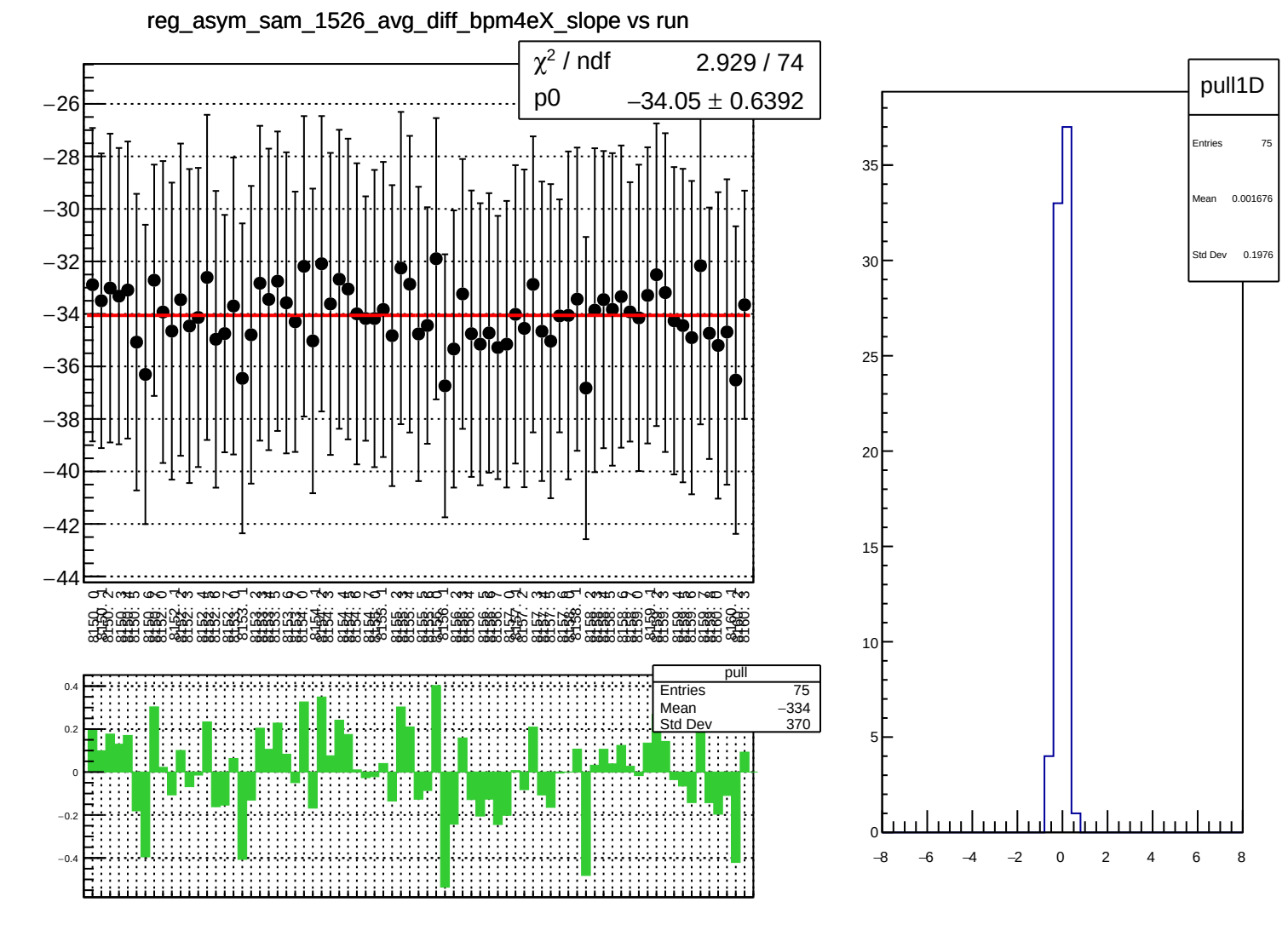

pull1D
Entries 75
Mean 0.002133
Std Dev 0.122

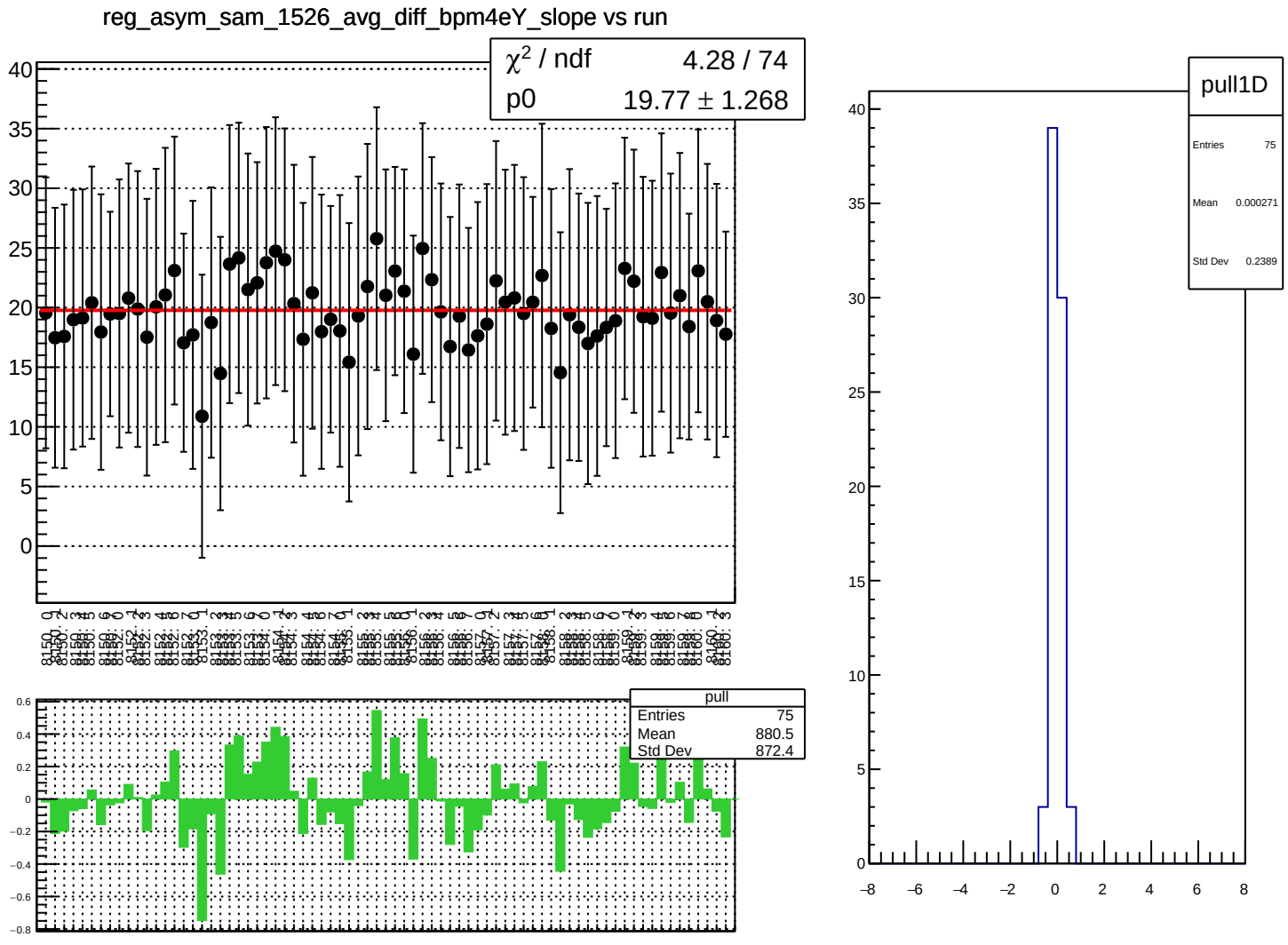

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 1.053 / 74
p0 0.6816 ± 0.1501
pull
Entries 75
Mean 74.04
Std Dev 79.98
pull1D
Entries 75
Mean 0.002025
Std Dev 0.1185

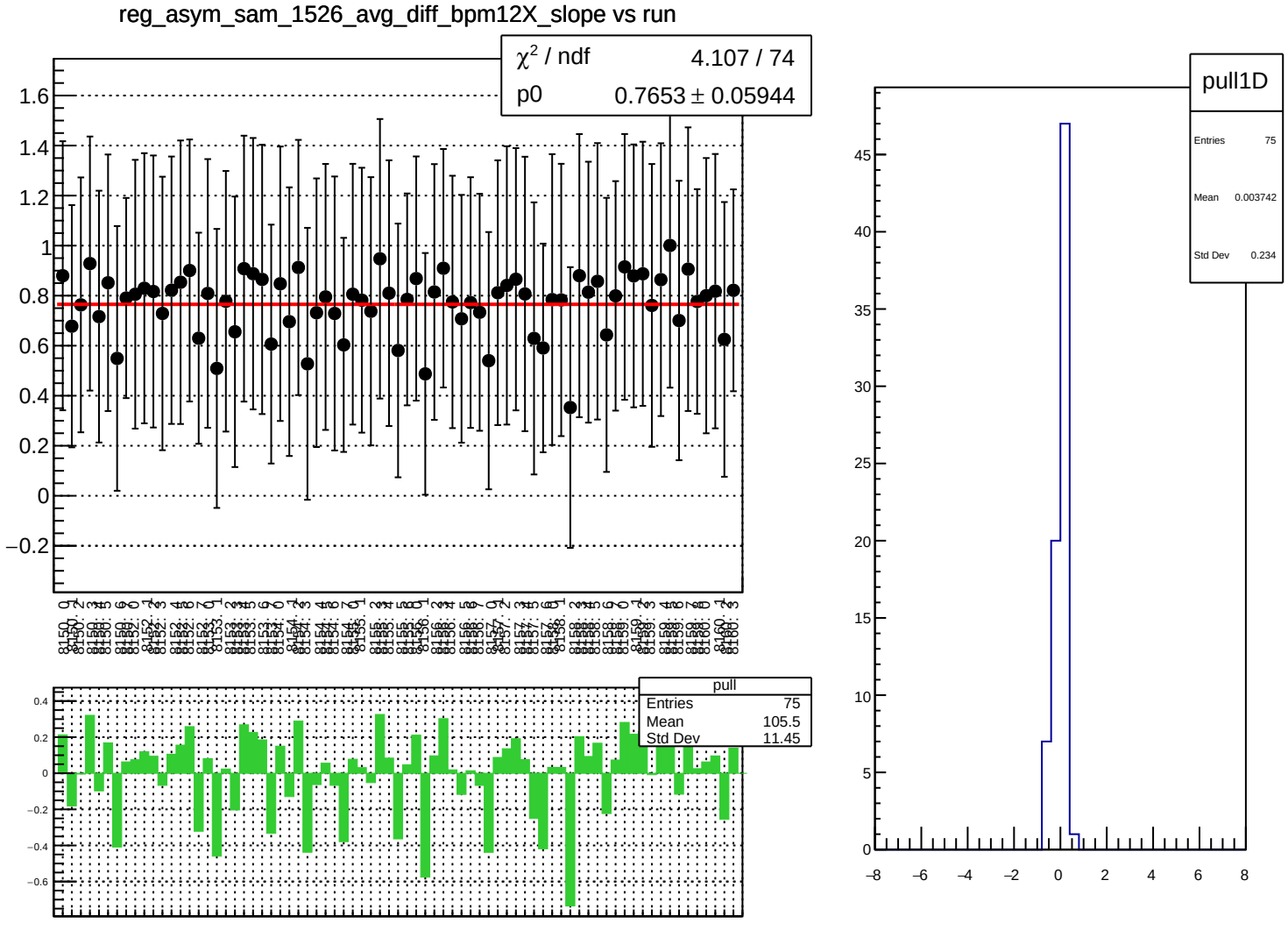

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 2.45 / 74
p0 −5.147 ± 0.6309
pull
Entries 75
Mean −162.4
Std Dev 197.9

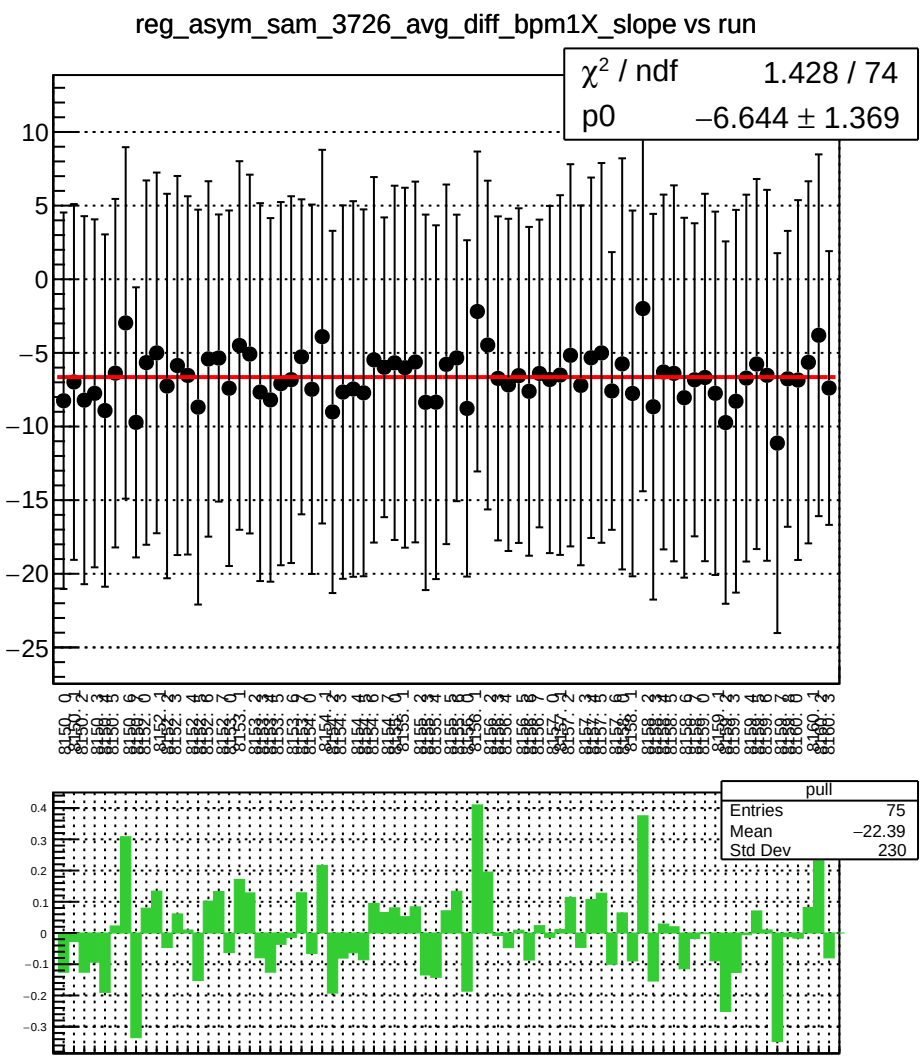

pull1D
Entries 75
Mean −0.000935
Std Dev 0.1808

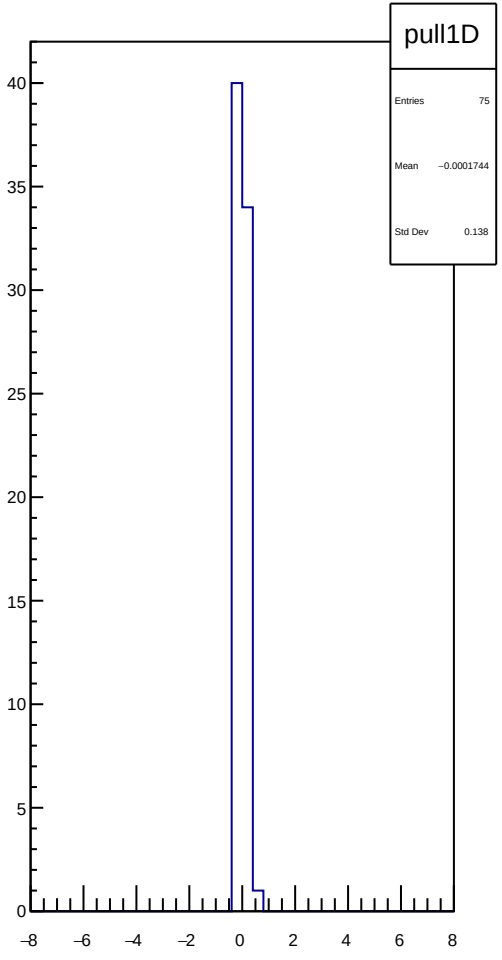

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.62 / 74
p0 −13.42 ± 1.183
pull
Entries 75
Mean 796.1
Std Dev 769.9
pull1D
Entries 75
Mean −0.0005428
Std Dev 0.2482

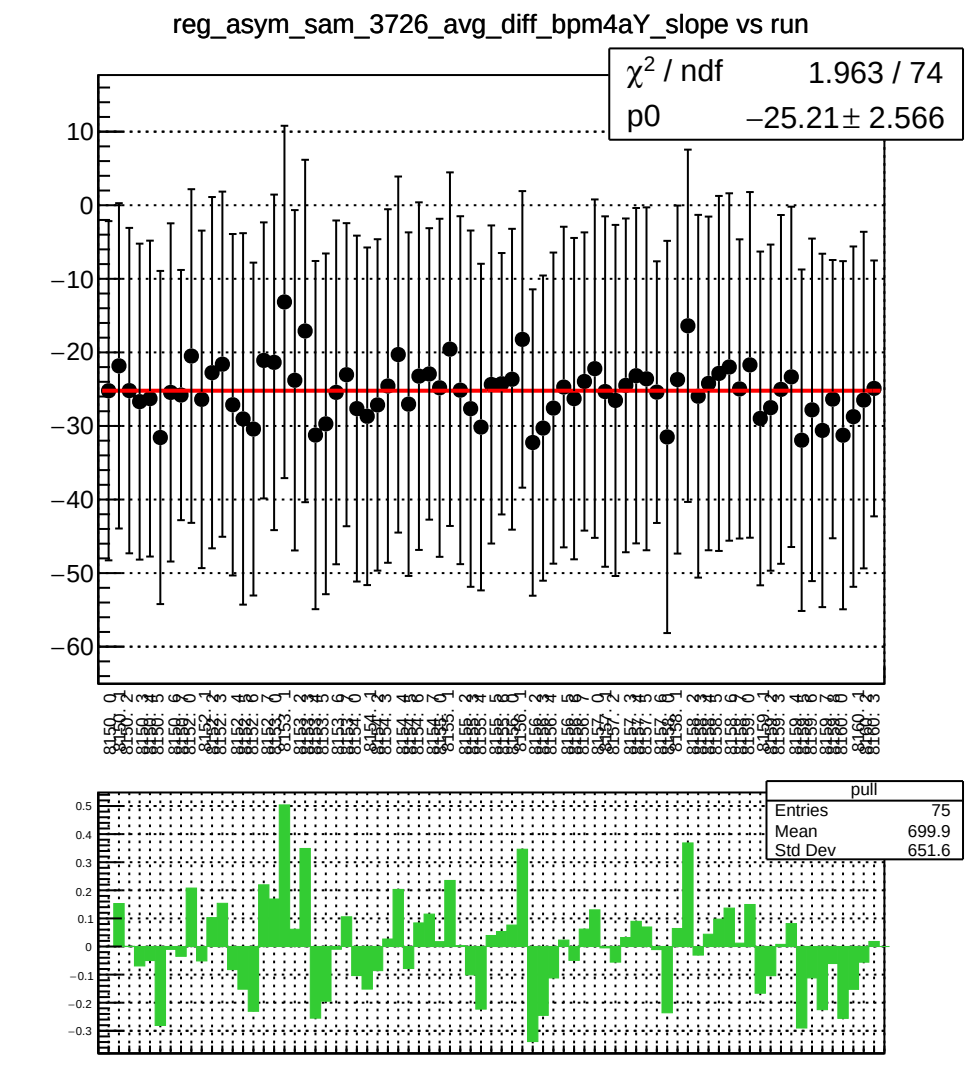

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.929 / 74
p0 −34.05 ± 0.6392
pull
Entries 75
Mean −334
Std Dev 370
pull1D
Entries 75
Mean 0.001676
Std Dev 0.1976

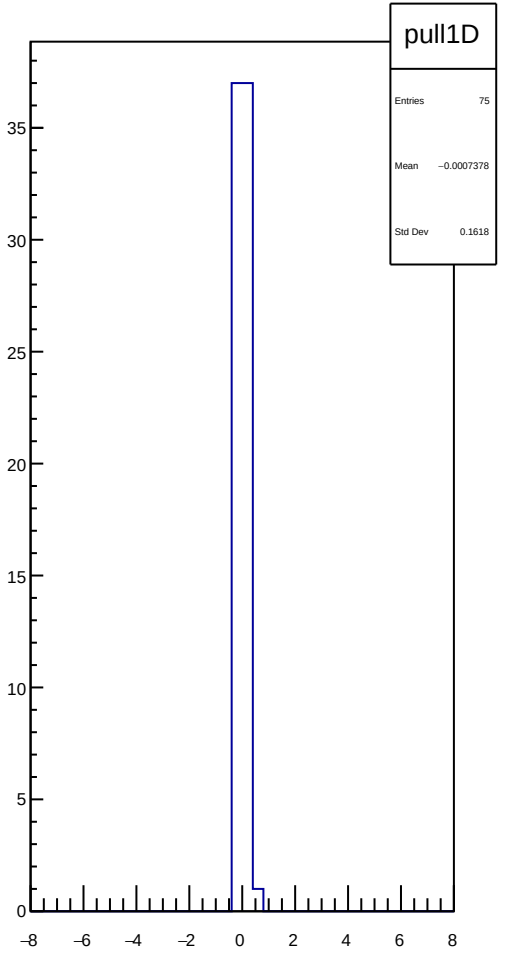

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.28 / 74
p0 19.77 ± 1.268
pull
Entries 75
Mean 880.5
Std Dev 872.4
pull1D
Entries 75
Mean 0.000271
Std Dev 0.2389

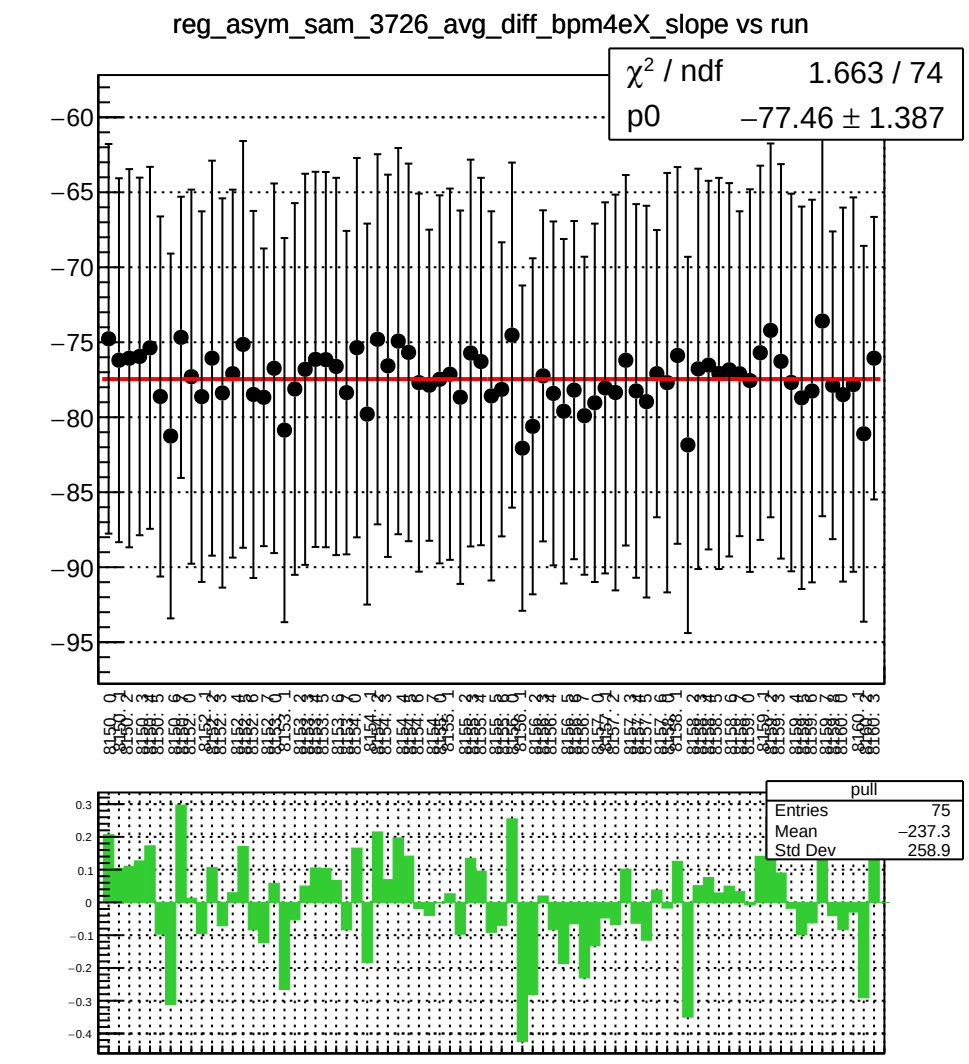

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 4.107 / 74
p0 0.7653 ± 0.05944
pull
Entries 75
Mean 105.5
Std Dev 11.45
pull1D
Entries 75
Mean 0.003742
Std Dev 0.234

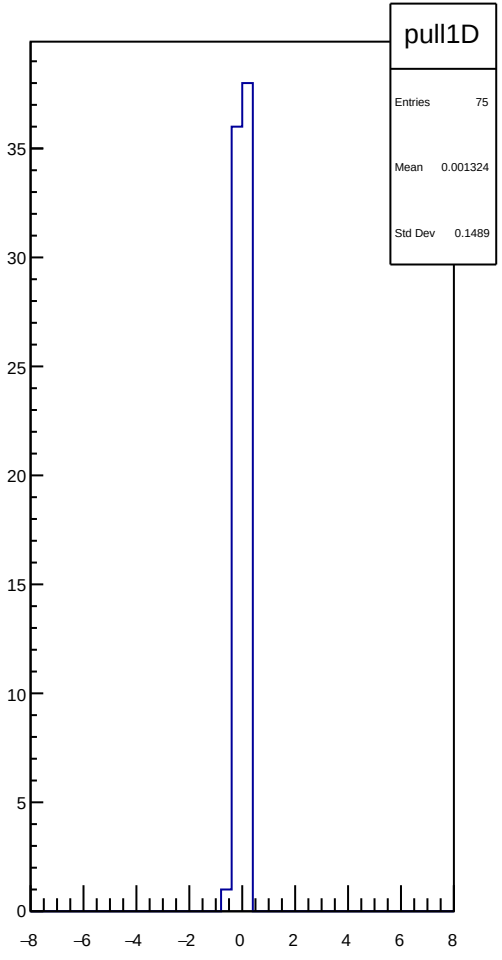

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 1.428 / 74
p0 −6.644 ± 1.369
pull
Entries 75
Mean −22.39
Std Dev 230

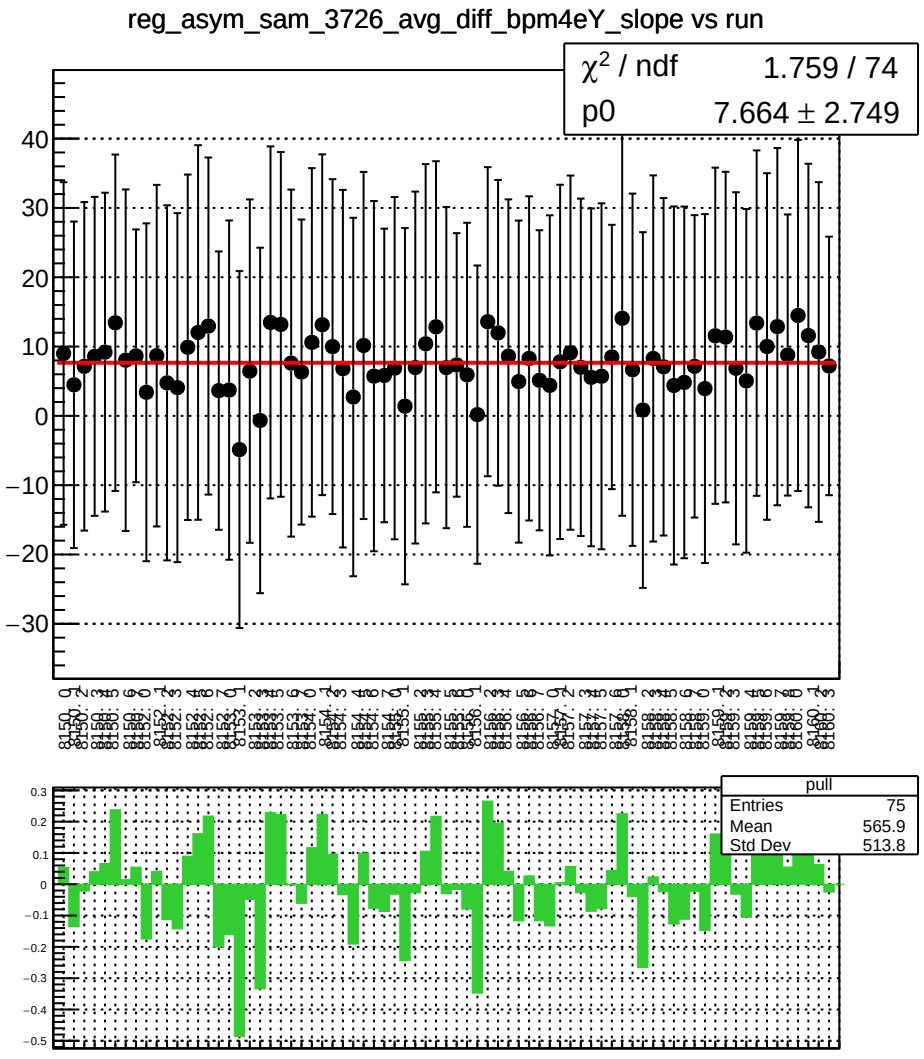

pull1D
Entries 75
Mean −0.0001744
Std Dev 0.138

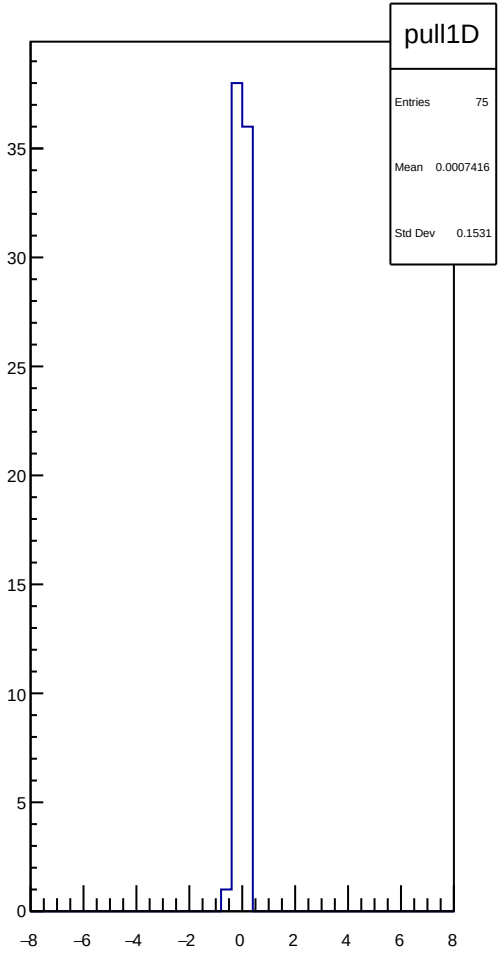

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.963 / 74
p0 −25.21 ± 2.566
pull
Entries 75
Mean 699.9
Std Dev 651.6

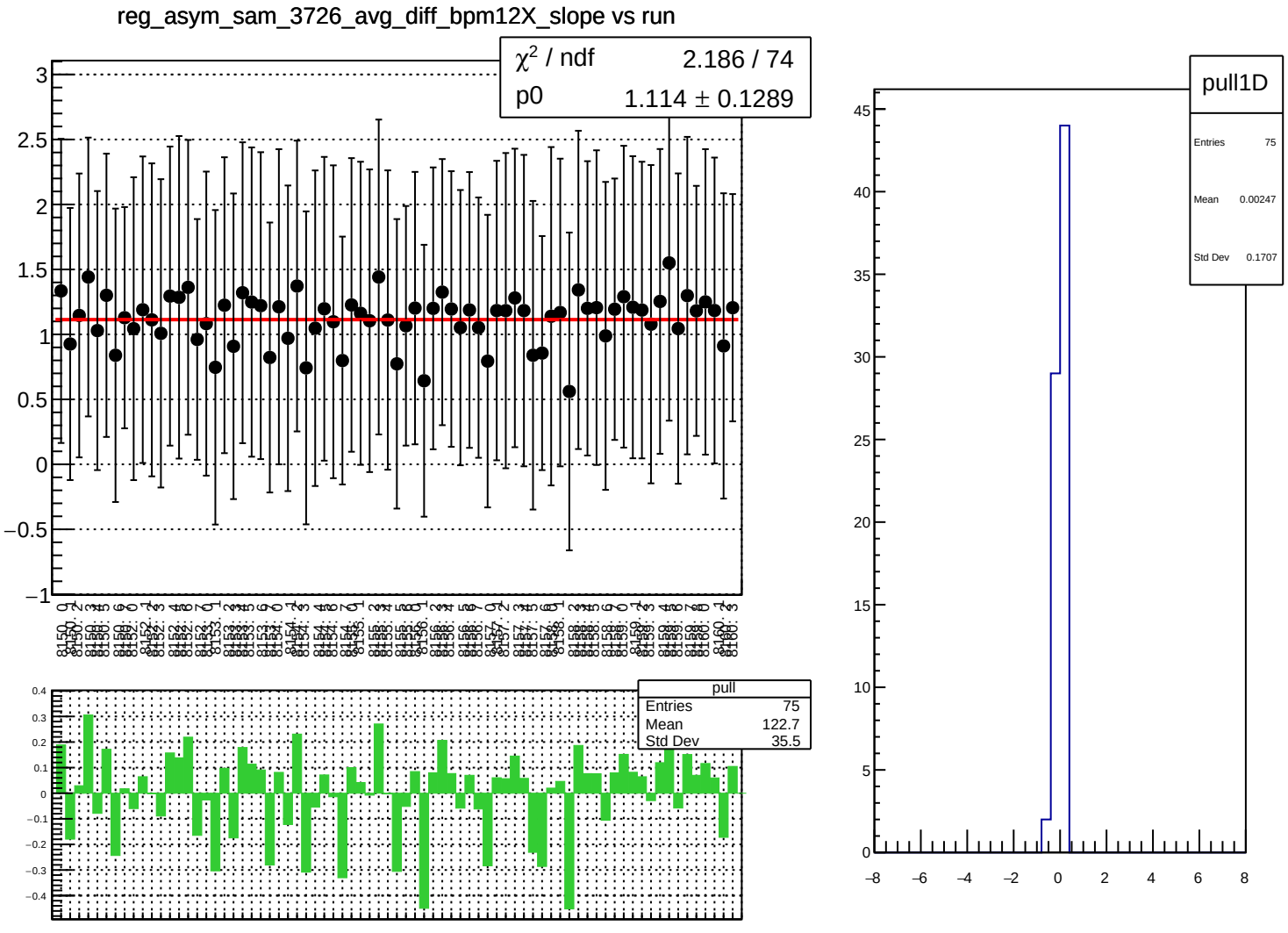

pull1D
Entries 75
Mean −0.0007378
Std Dev 0.1618

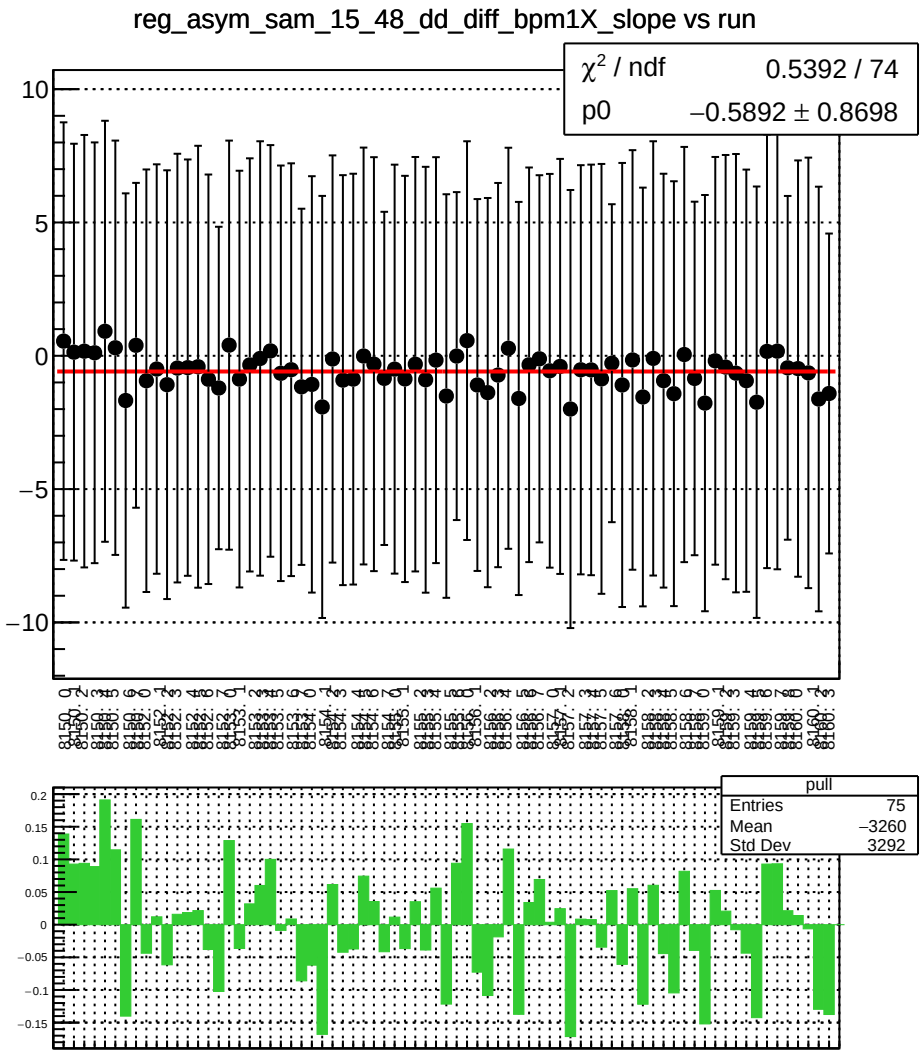

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.663 / 74
p0 −77.46 ± 1.387
pull
Entries 75
Mean −237.3
Std Dev 258.9

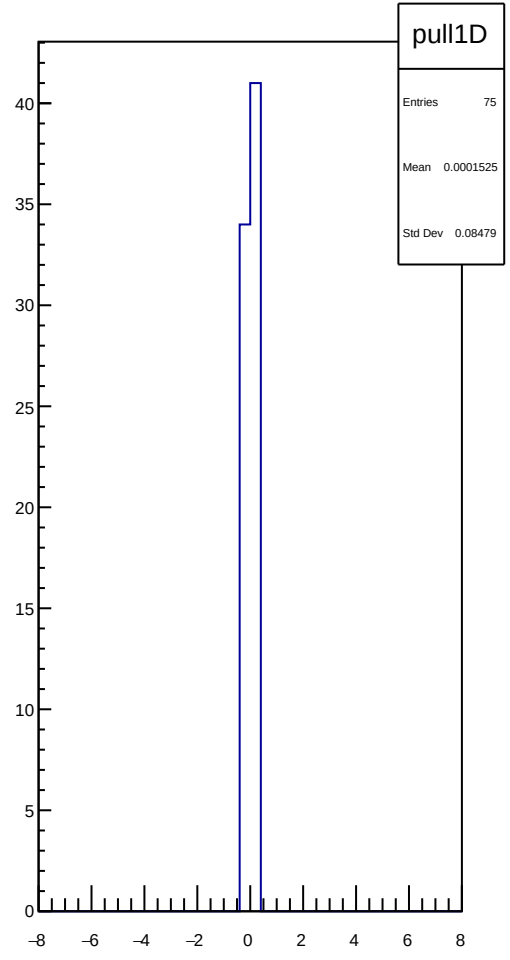

pull1D
Entries 75
Mean 0.001324
Std Dev 0.1489

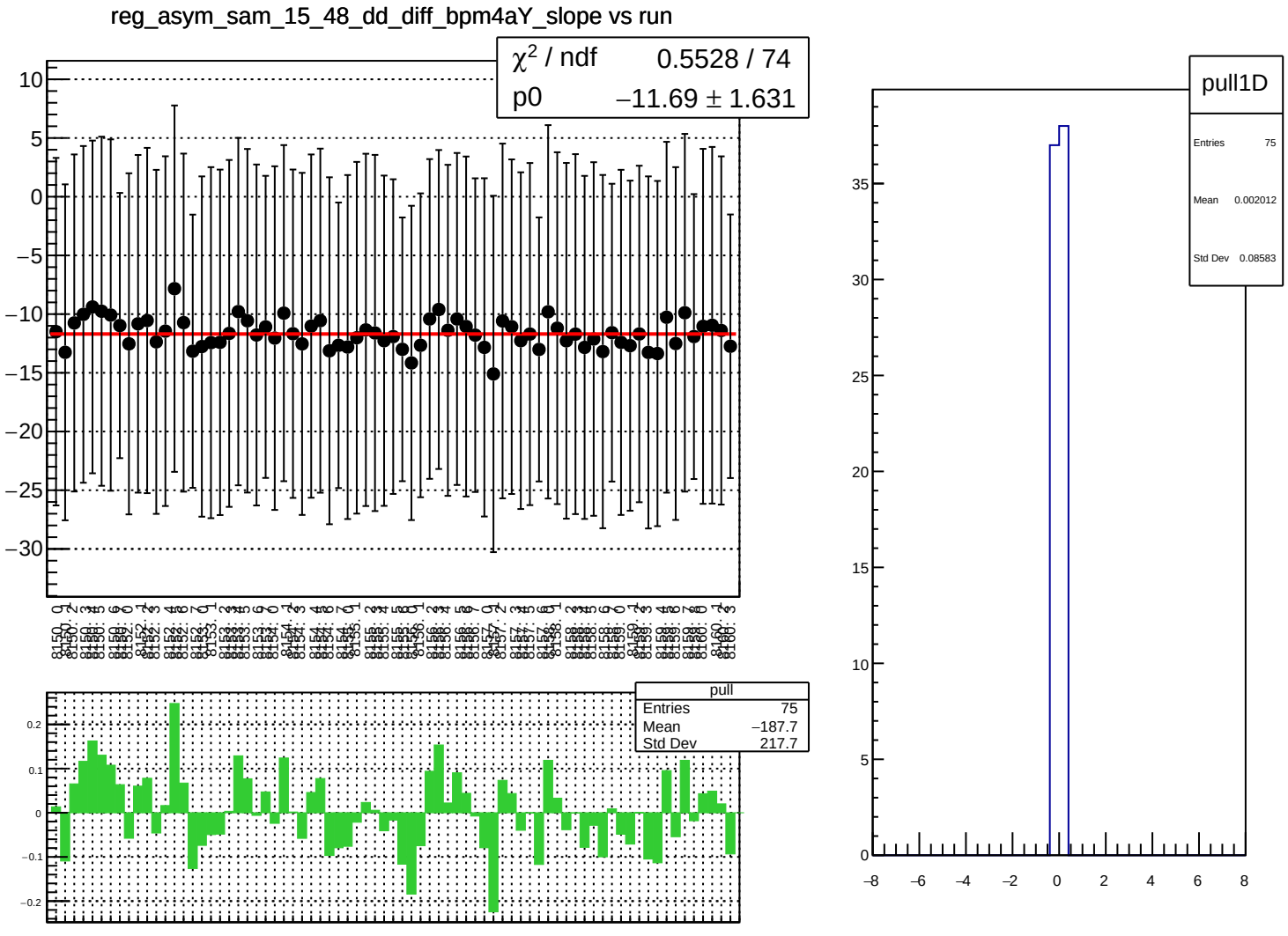

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.759 / 74
p0 7.664 ± 2.749
pull
Entries 75
Mean 565.9
Std Dev 513.8

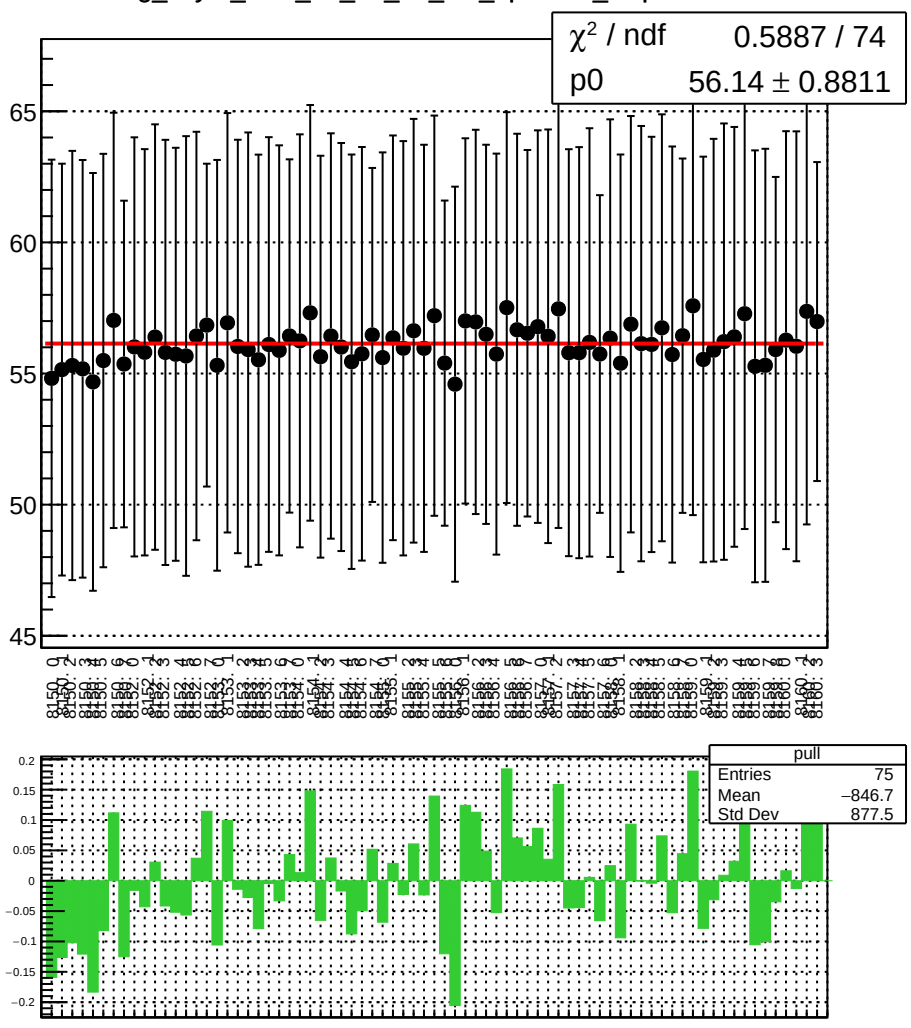

pull1D
Entries 75
Mean 0.0007416
Std Dev 0.1531

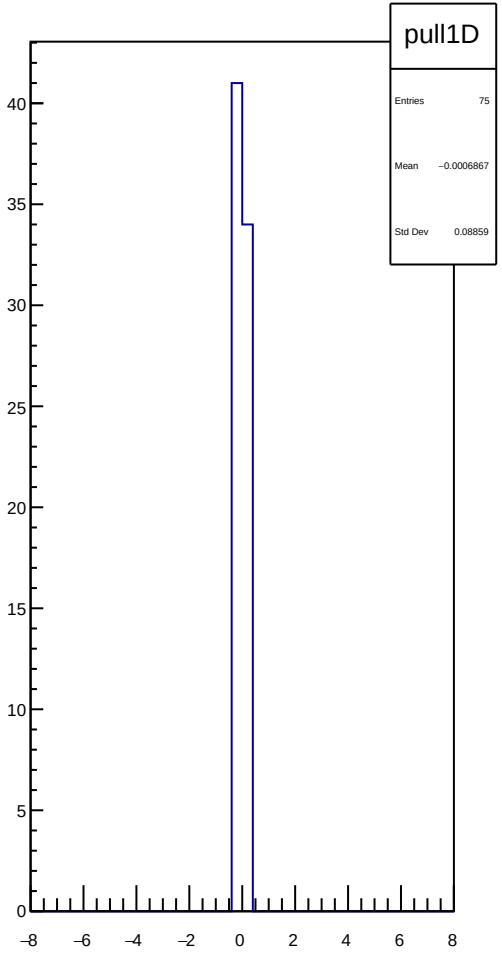

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 2.186 / 74
p0 1.114 ± 0.1289
pull
Entries 75
Mean 122.7
Std Dev 35.5
pull1D
Entries 75
Mean 0.00247
Std Dev 0.1707

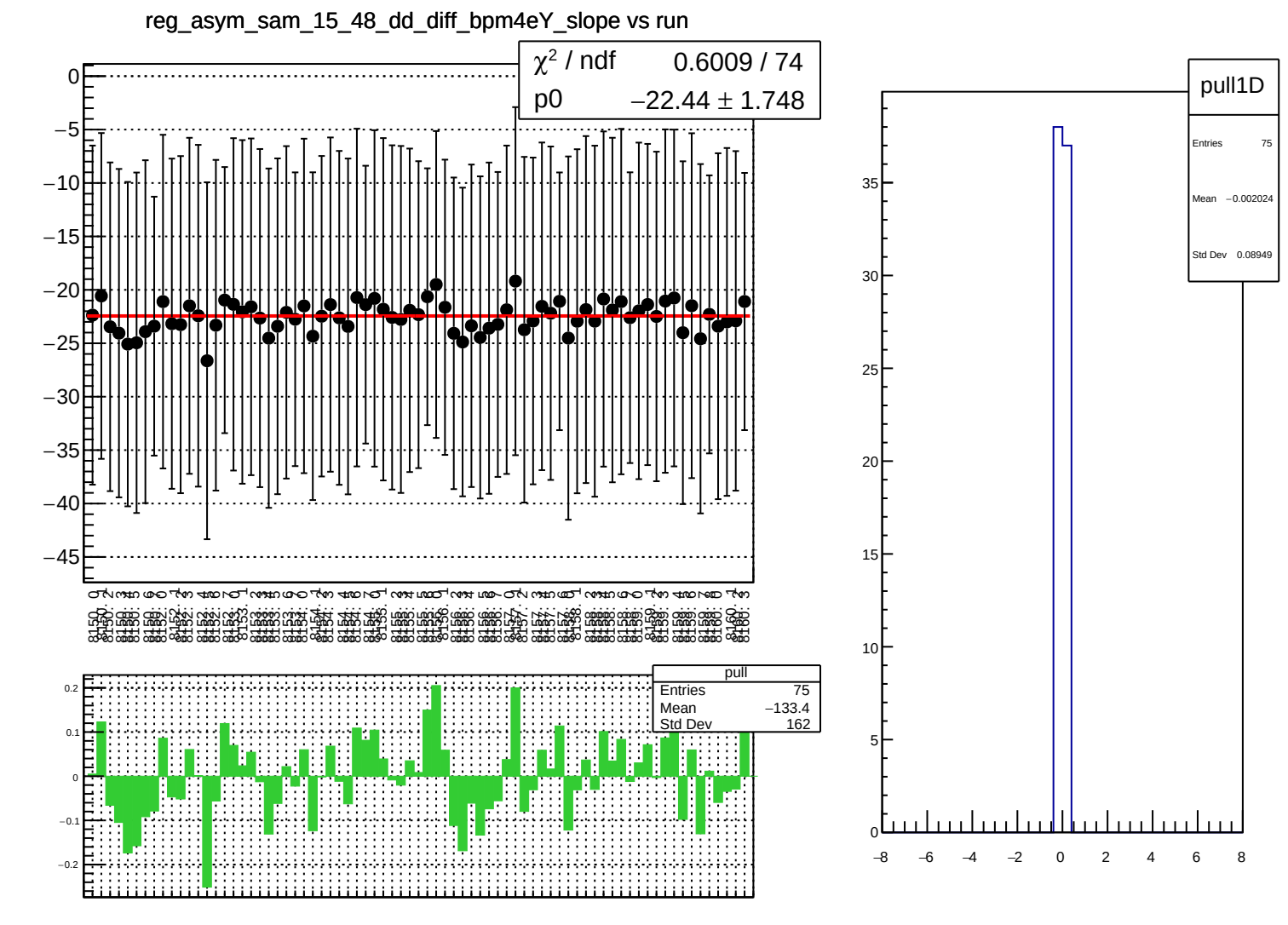

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 0.5392 / 74
p0 −0.5892 ± 0.8698
pull
Entries 75
Mean −3260
Std Dev 3292

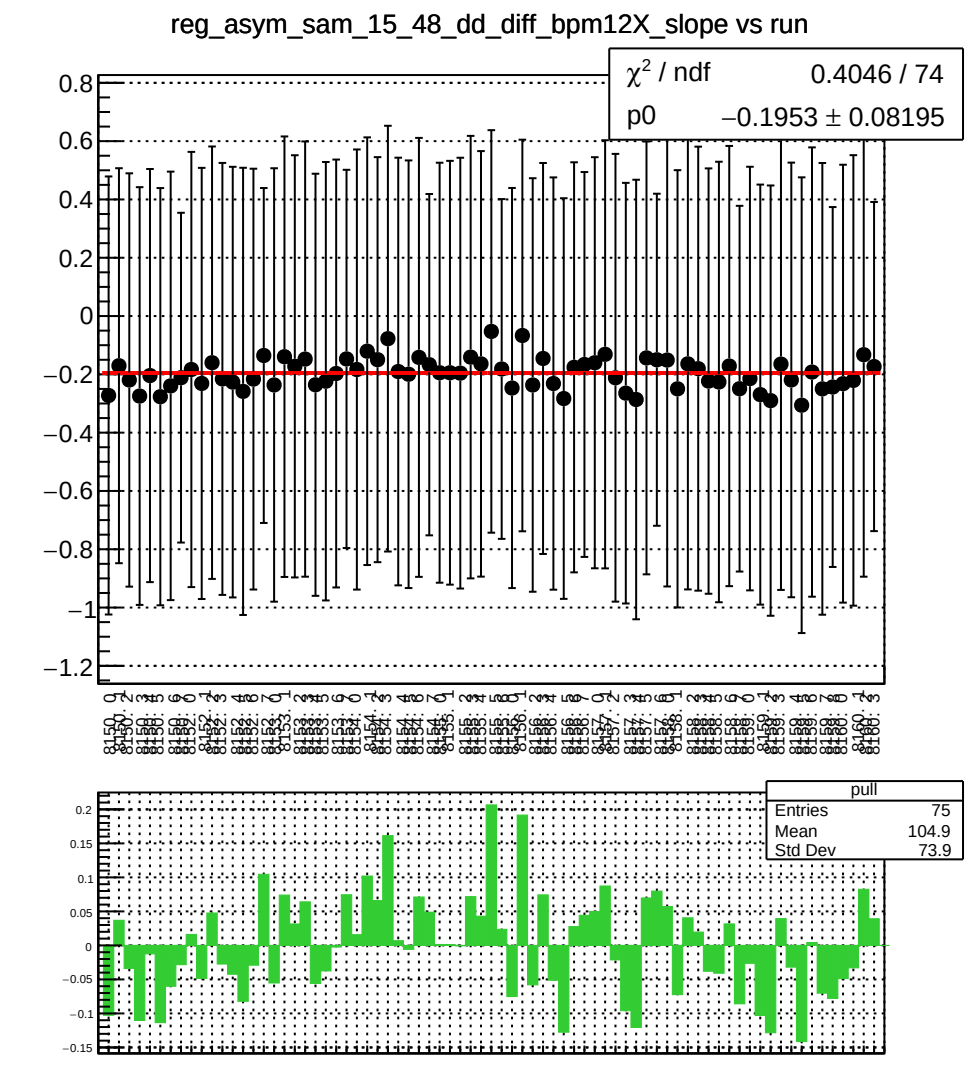

pull1D
Entries 75
Mean 0.0001525
Std Dev 0.08479

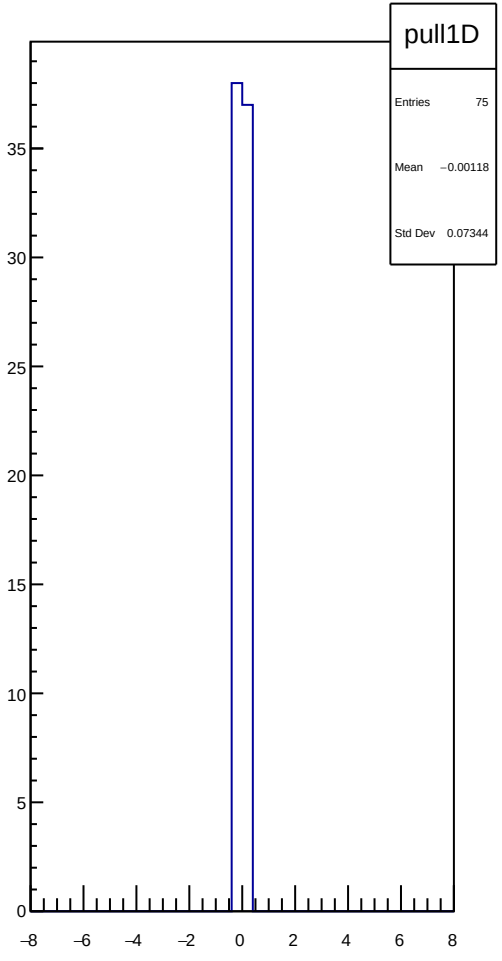

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.5528 / 74
p0 −11.69 ± 1.631
pull
Entries 75
Mean −187.7
Std Dev 217.7
pull1D
Entries 75
Mean 0.002012
Std Dev 0.08583

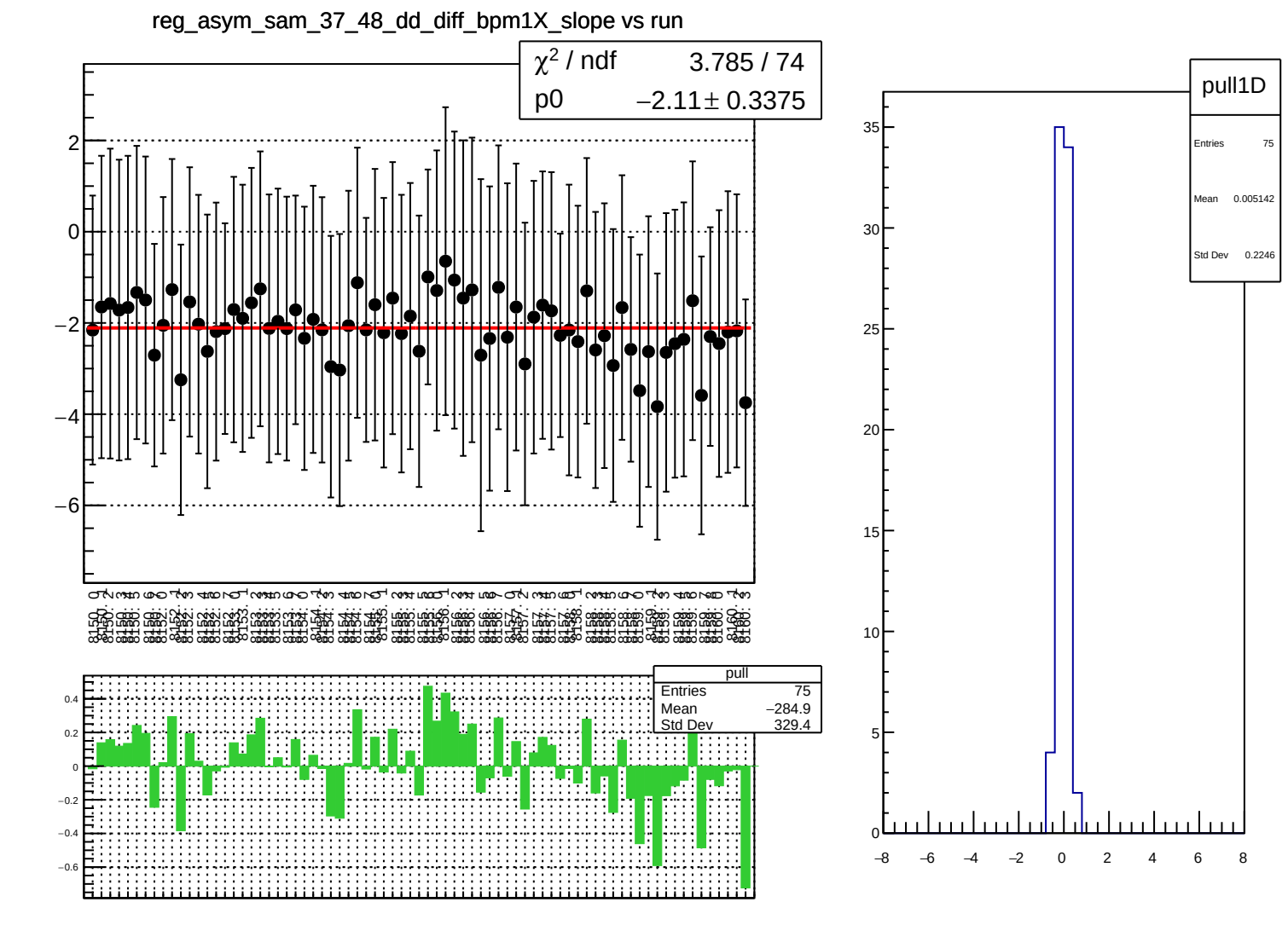

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.5887 / 74
p0 56.14 ± 0.8811
pull
Entries 75
Mean −846.7
Std Dev 877.5

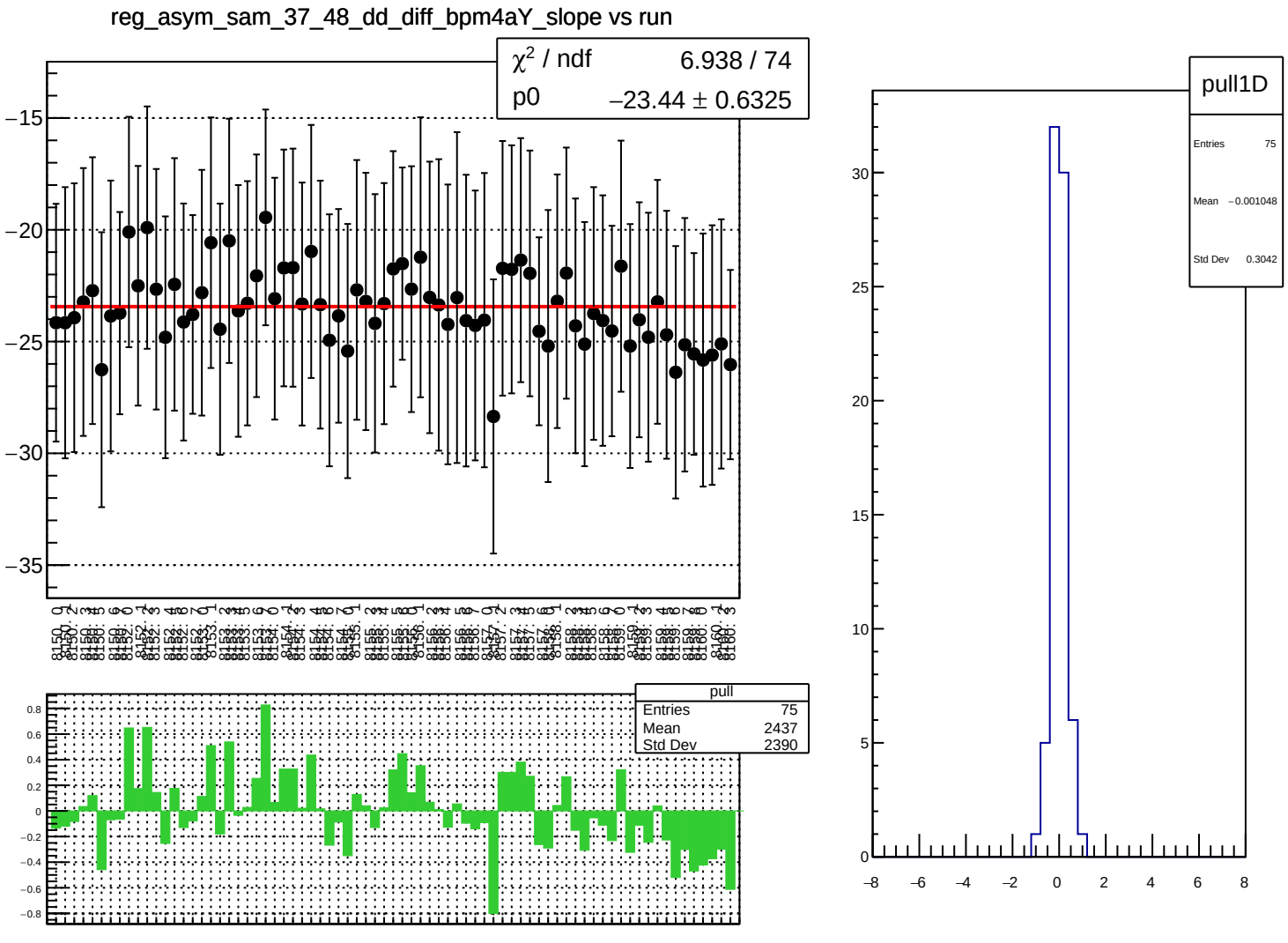

pull1D
Entries 75
Mean −0.0006867
Std Dev 0.08859

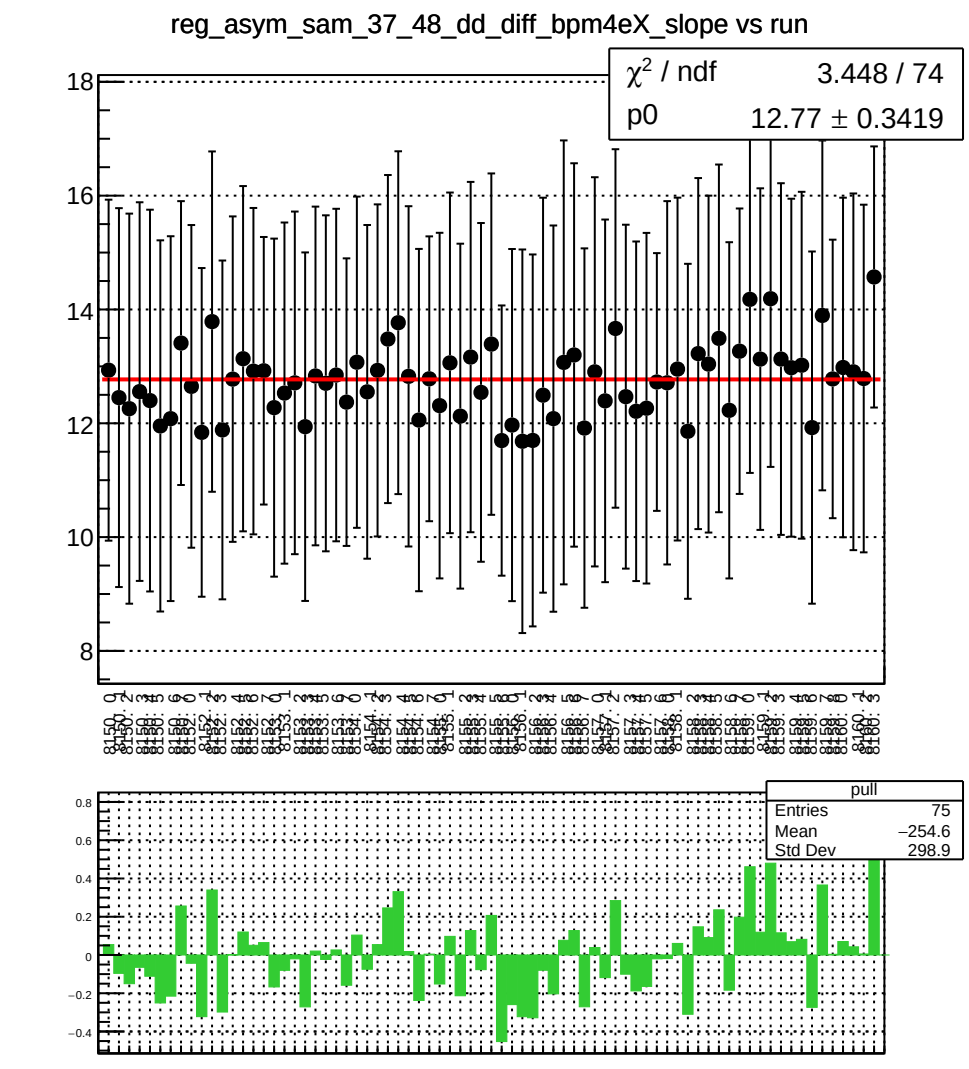

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.6009 / 74
p0 −22.44 ± 1.748
pull
Entries 75
Mean −133.4
Std Dev 162
pull1D
Entries 75
Mean −0.002024
Std Dev 0.08949

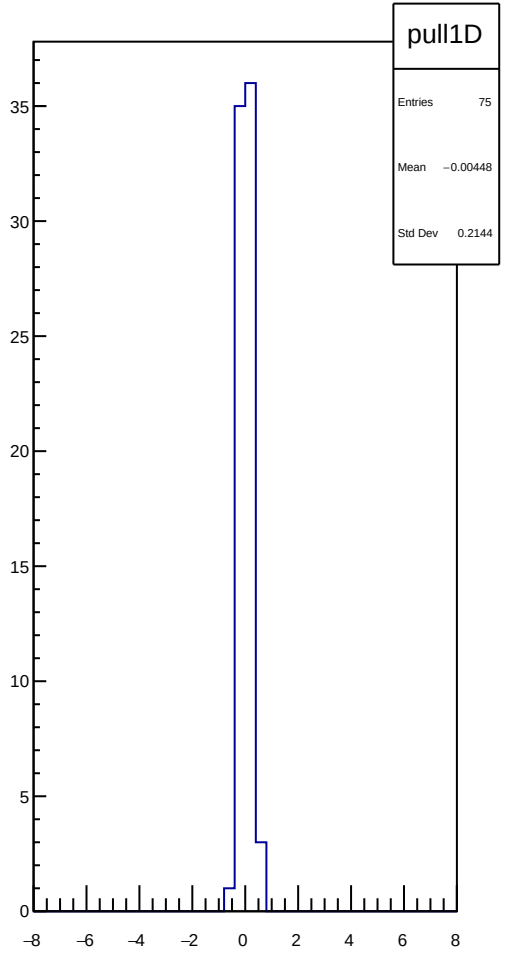

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.4046 / 74
p0 −0.1953 ± 0.08195
pull
Entries 75
Mean 104.9
Std Dev 73.9

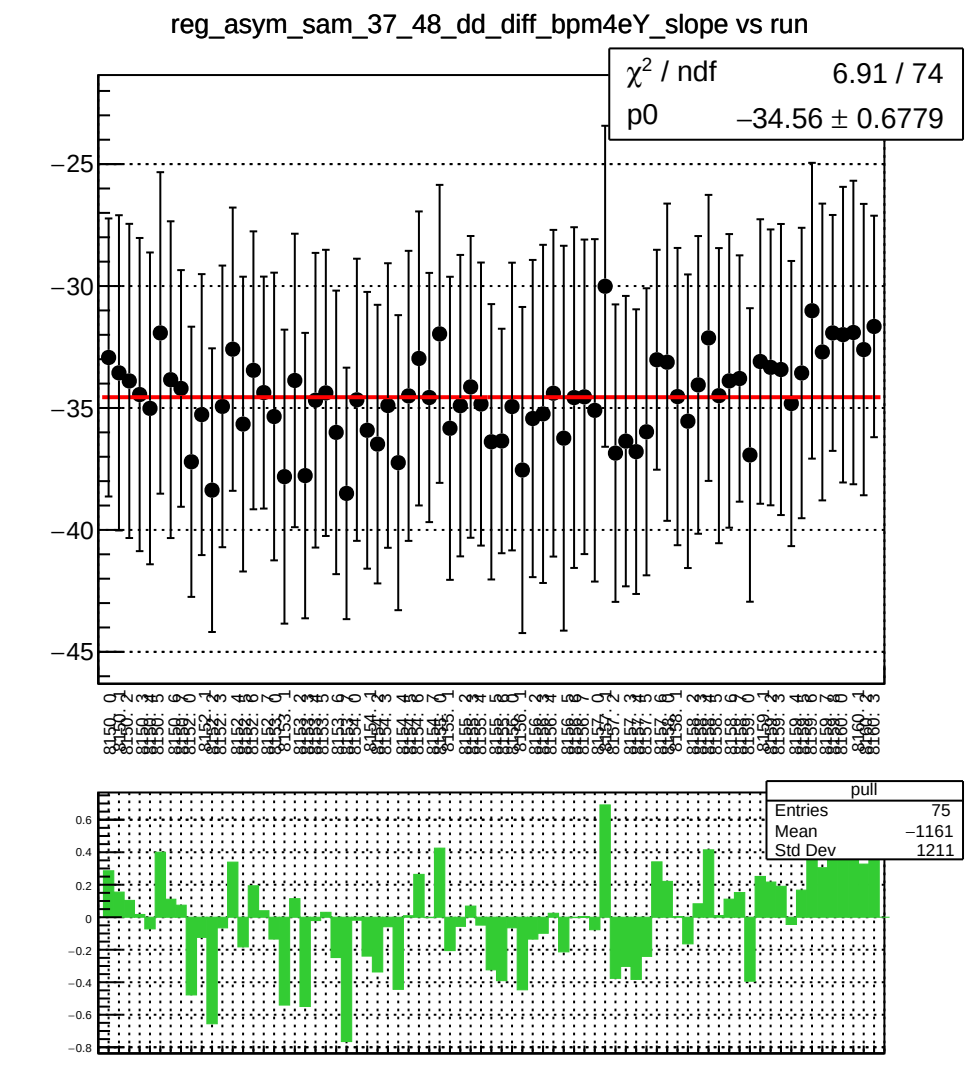

pull1D
Entries 75
Mean −0.00118
Std Dev 0.07344

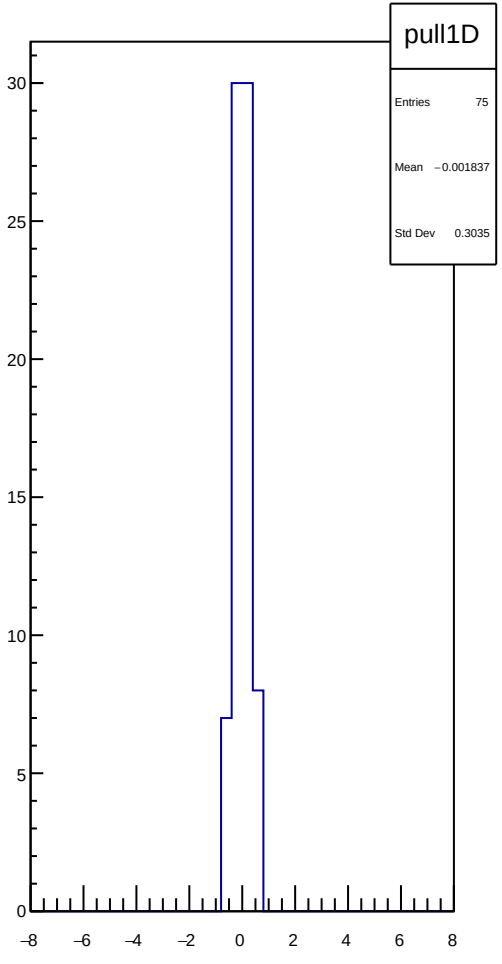

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.785 / 74
p0 −2.11 ± 0.3375
pull
Entries 75
Mean −284.9
Std Dev 329.4
pull1D
Entries 75
Mean 0.005142
Std Dev 0.2246

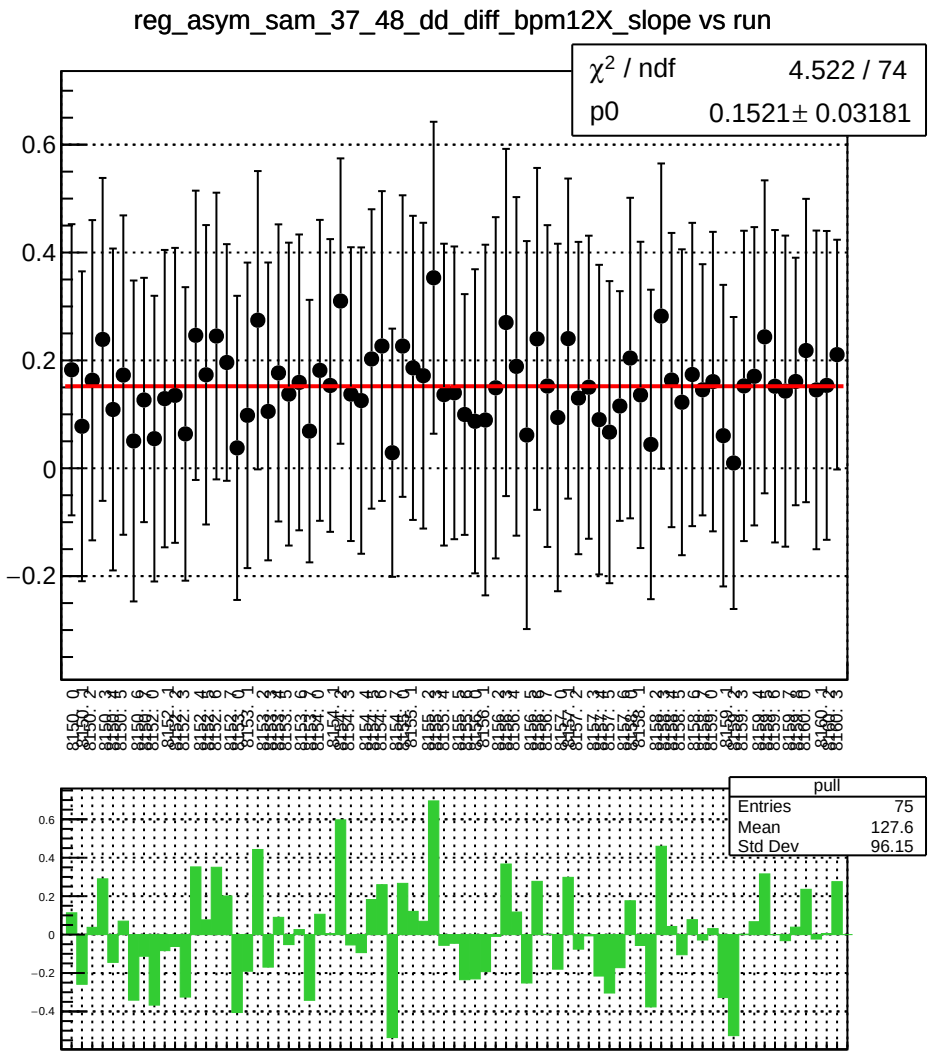

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.938 / 74
p0 −23.44 ± 0.6325
pull
Entries 75
Mean 2437
Std Dev 2390
pull1D
Entries 75
Mean −0.001048
Std Dev 0.3042

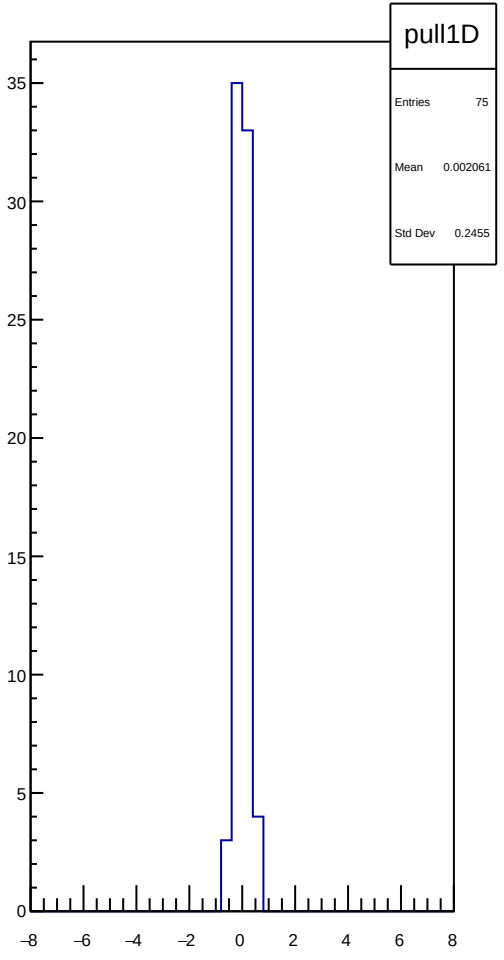

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.448 / 74
p0 12.77 ± 0.3419
pull
Entries 75
Mean −254.6
Std Dev 298.9

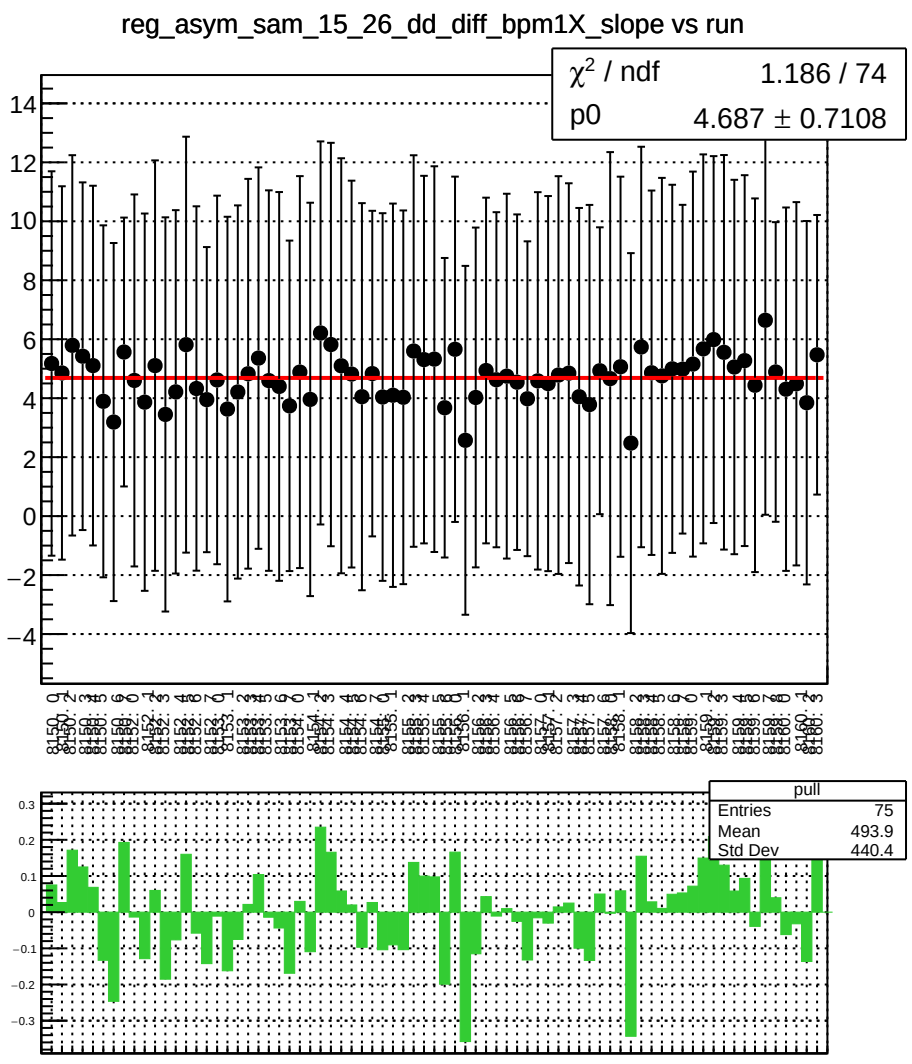

pull1D
Entries 75
Mean −0.00448
Std Dev 0.2144

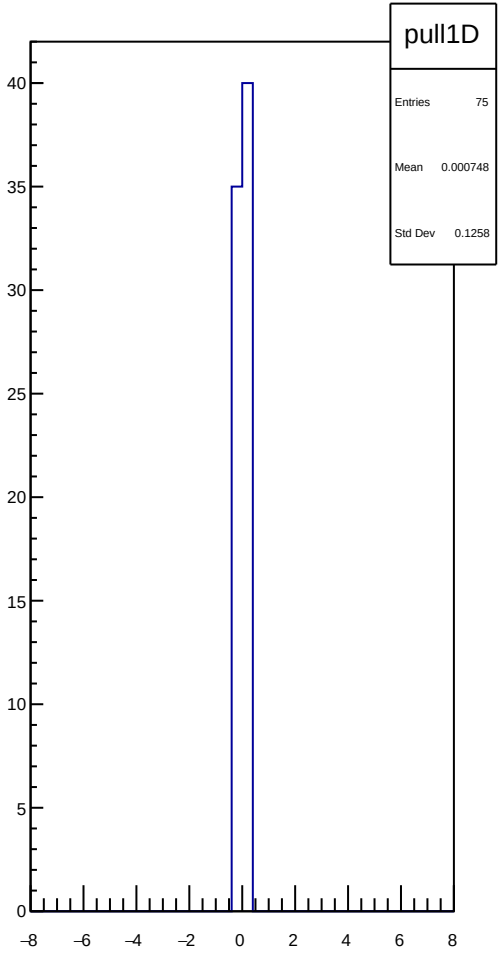

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.91 / 74
p0 −34.56 ± 0.6779
pull
Entries 75
Mean −1161
Std Dev 1211

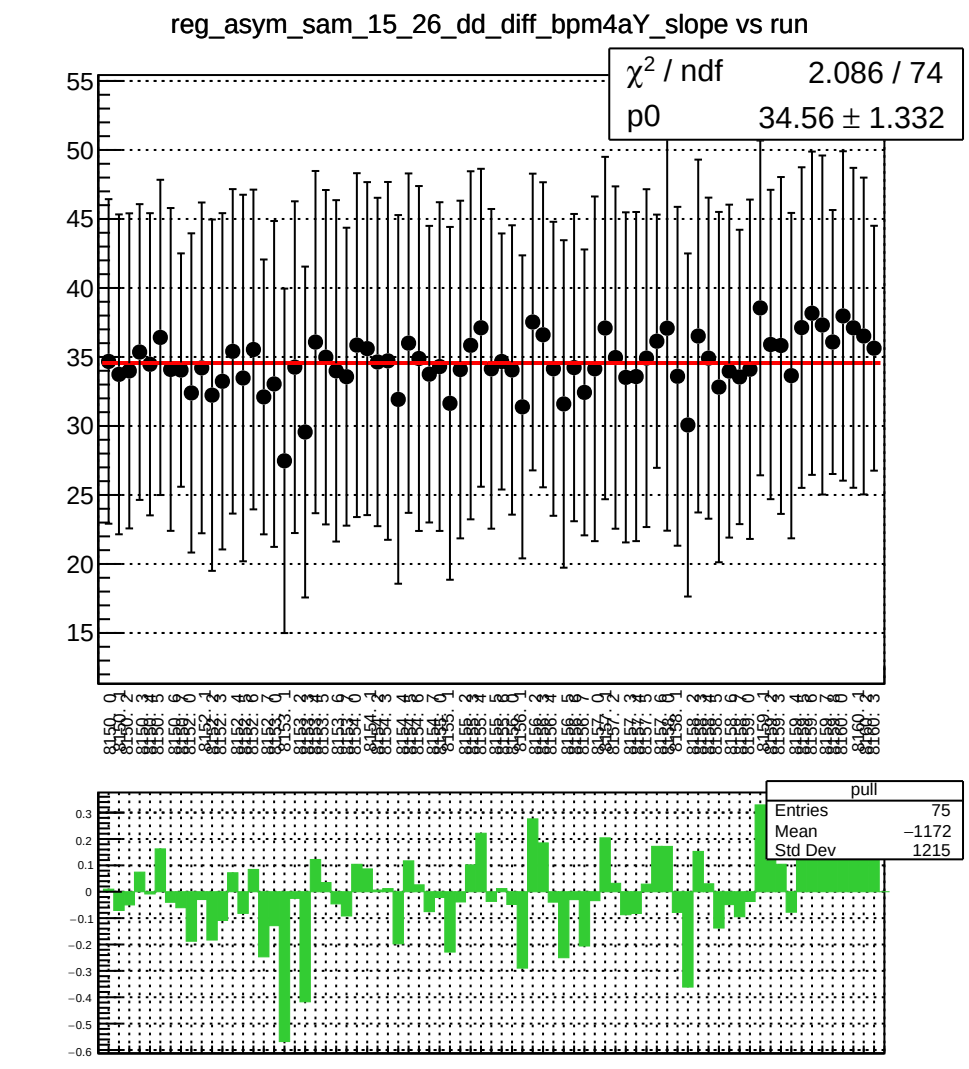

pull1D
Entries 75
Mean −0.001837
Std Dev 0.3035

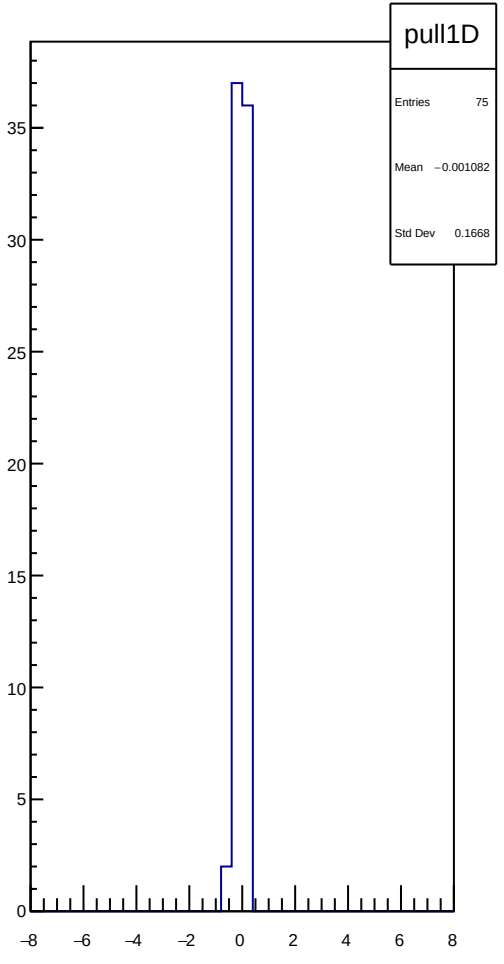

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.522 / 74
p0 0.1521± 0.03181
pull
Entries 75
Mean 127.6
Std Dev 96.15

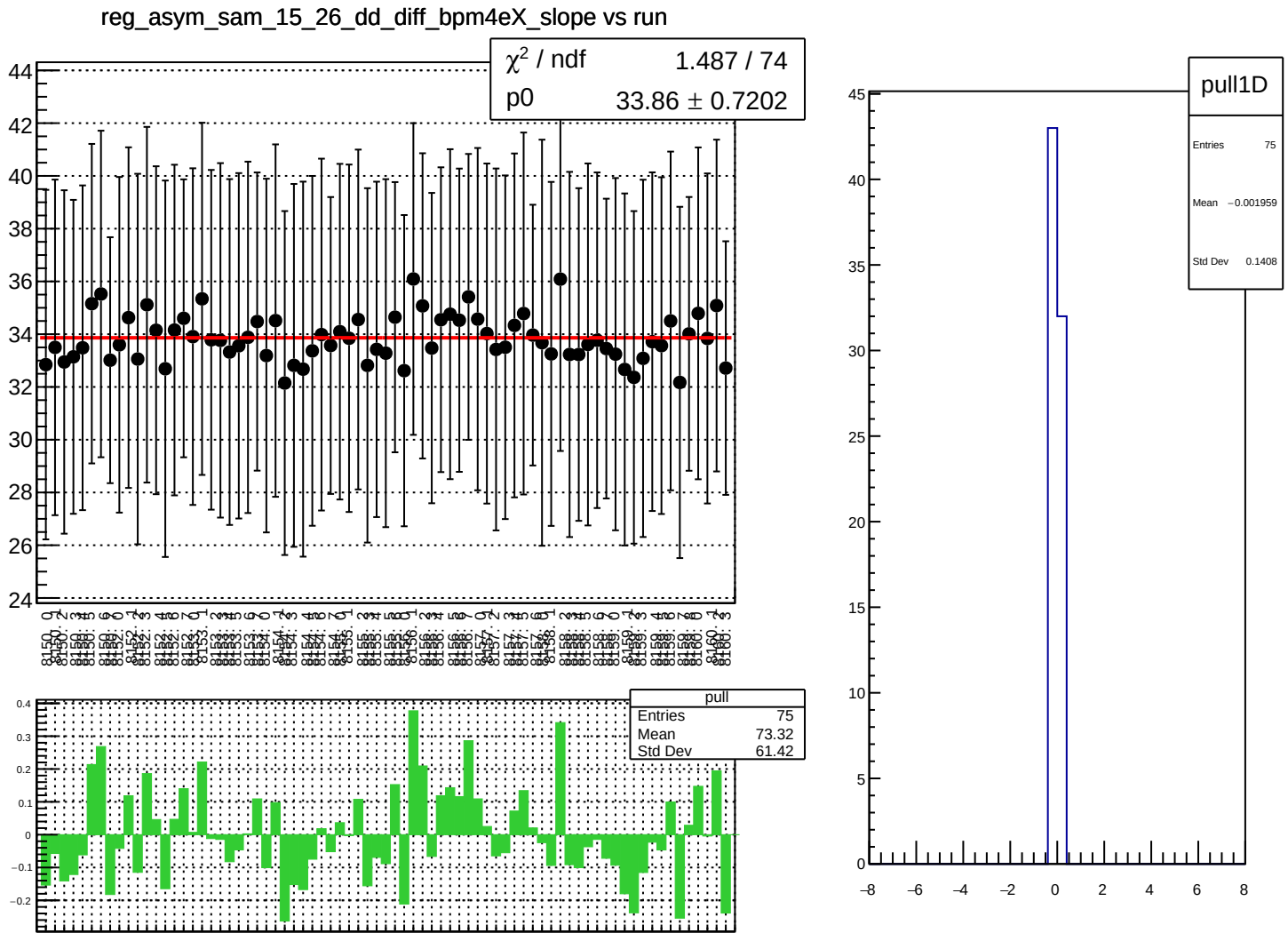

pull1D
Entries 75
Mean 0.002061
Std Dev 0.2455

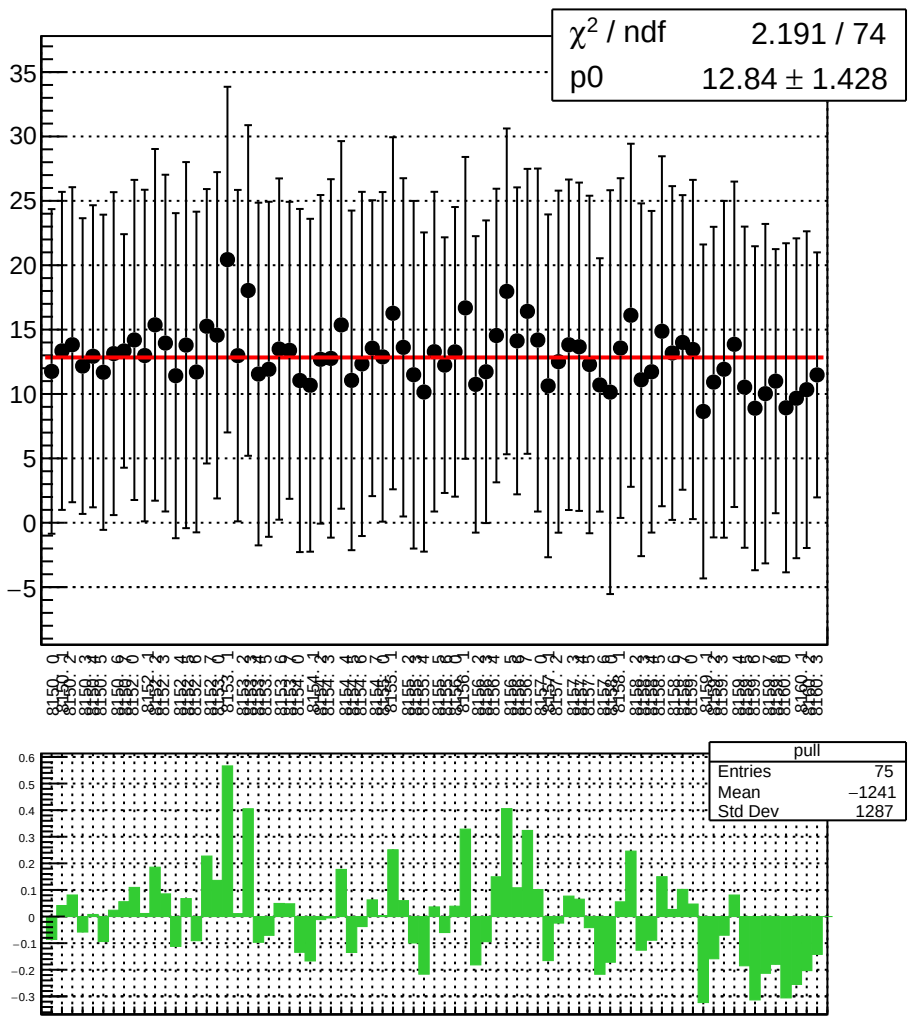

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.186 / 74
p0 4.687 ± 0.7108
pull
Entries 75
Mean 493.9
Std Dev 440.4

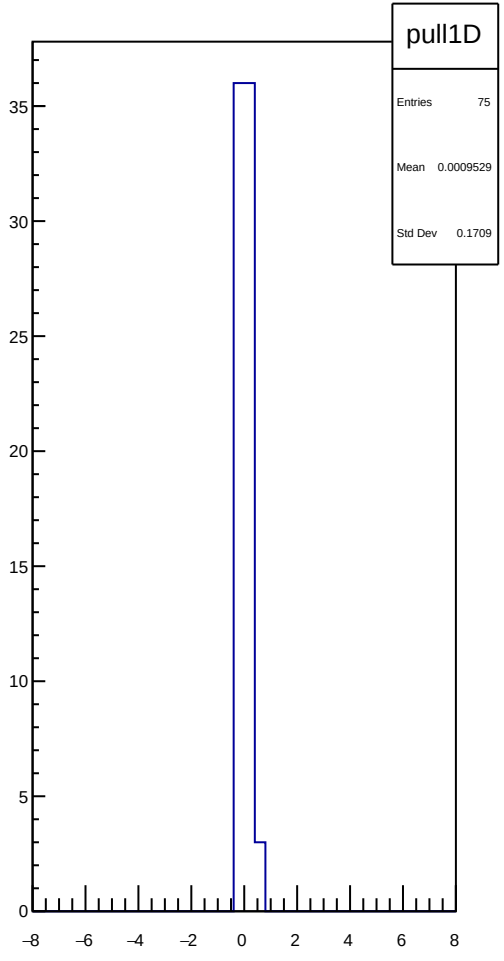

pull1D
Entries 75
Mean 0.000748
Std Dev 0.1258

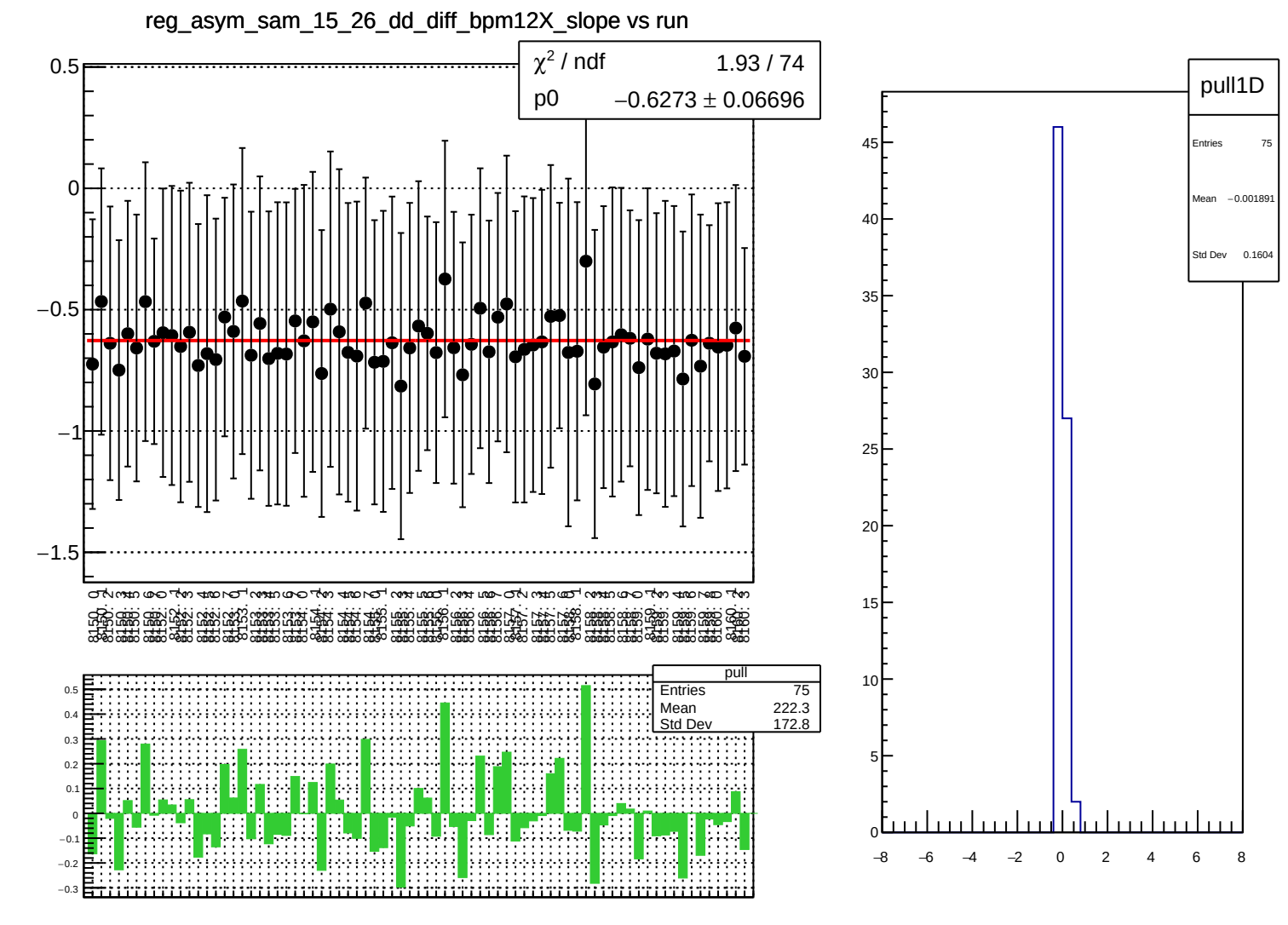

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.086 / 74
p0 34.56 ± 1.332
pull
Entries 75
Mean −1172
Std Dev 1215

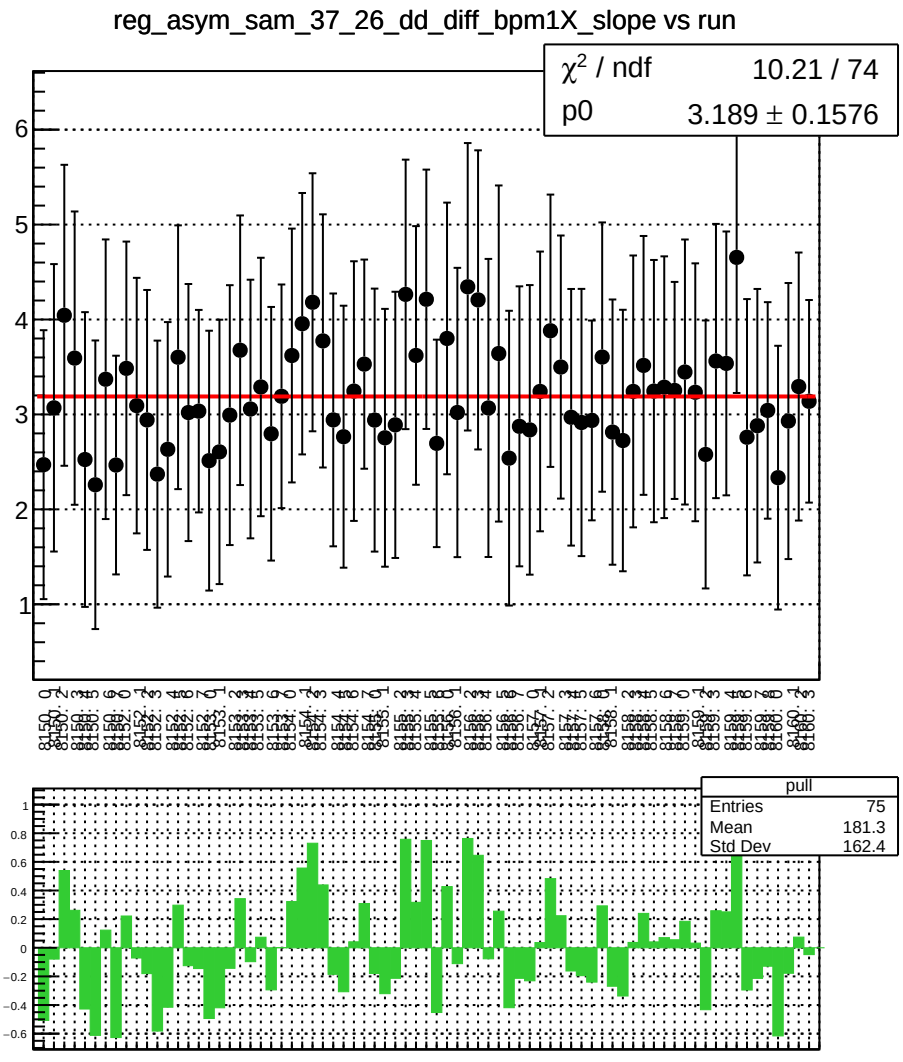

pull1D
Entries 75
Mean −0.001082
Std Dev 0.1668

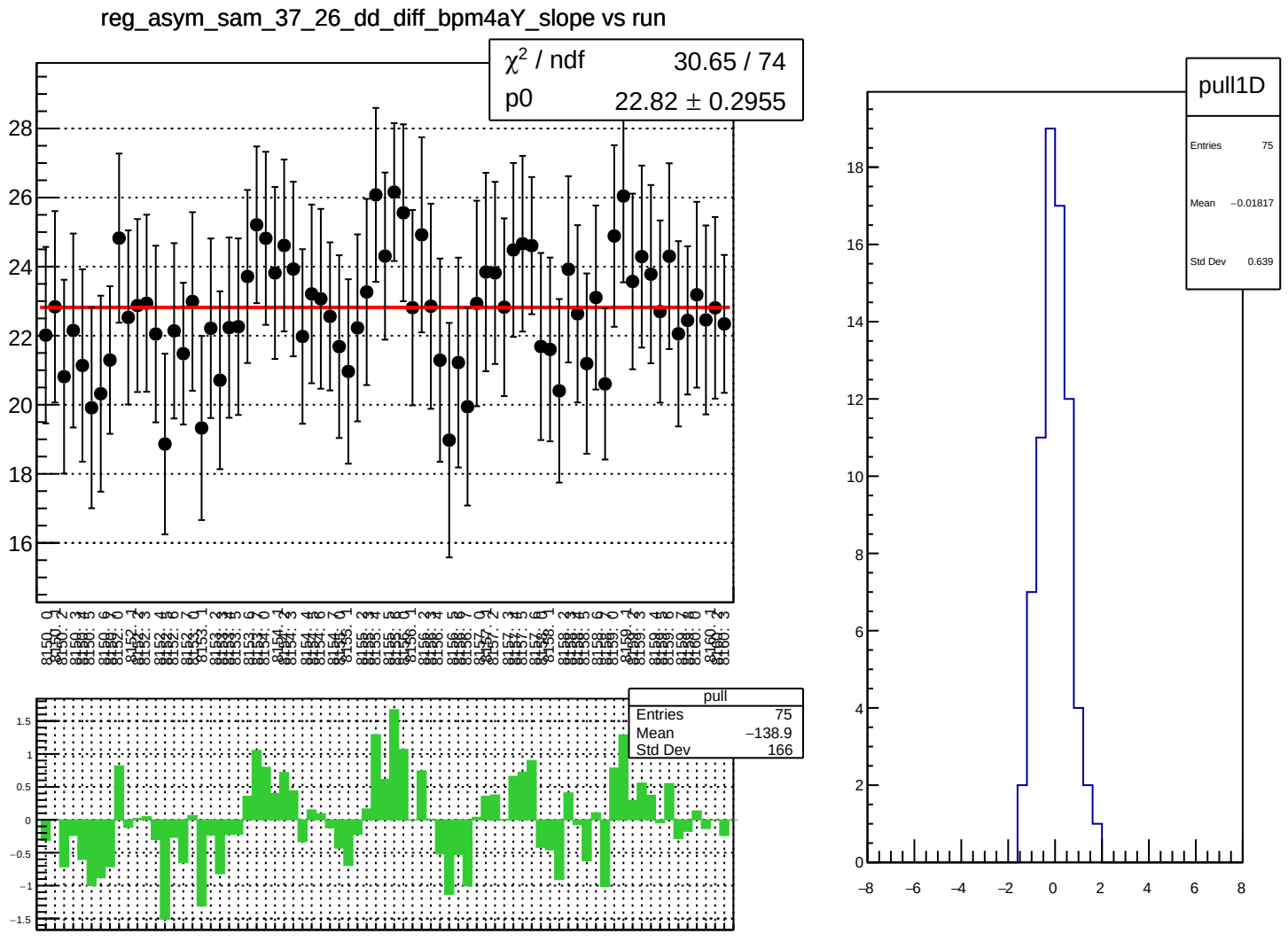

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.487 / 74
p0 33.86 ± 0.7202
pull
Entries 75
Mean 73.32
Std Dev 61.42
pull1D
Entries 75
Mean −0.001959
Std Dev 0.1408

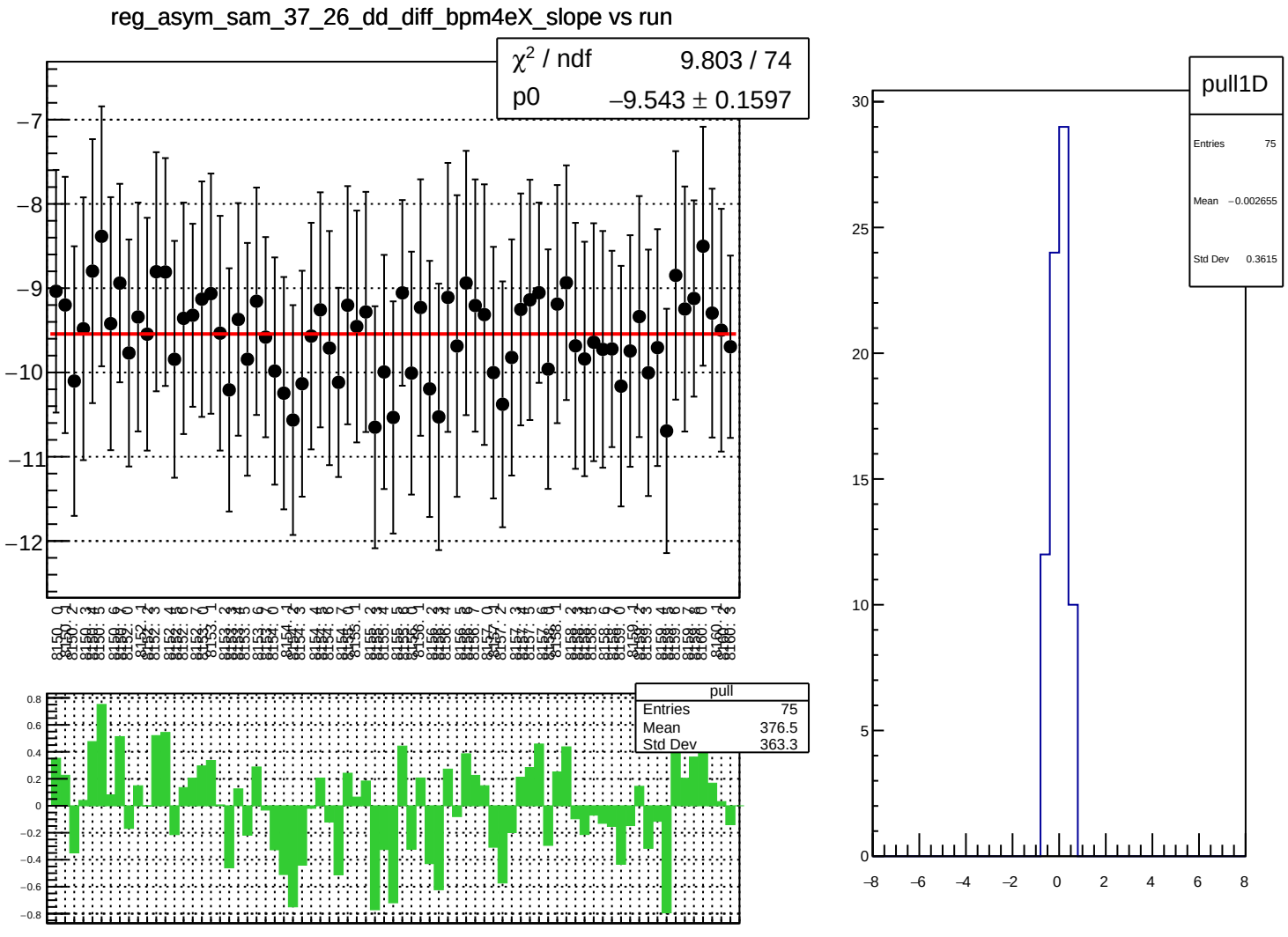

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.191 / 74
p0 12.84 ± 1.428
pull
Entries 75
Mean −1241
Std Dev 1287

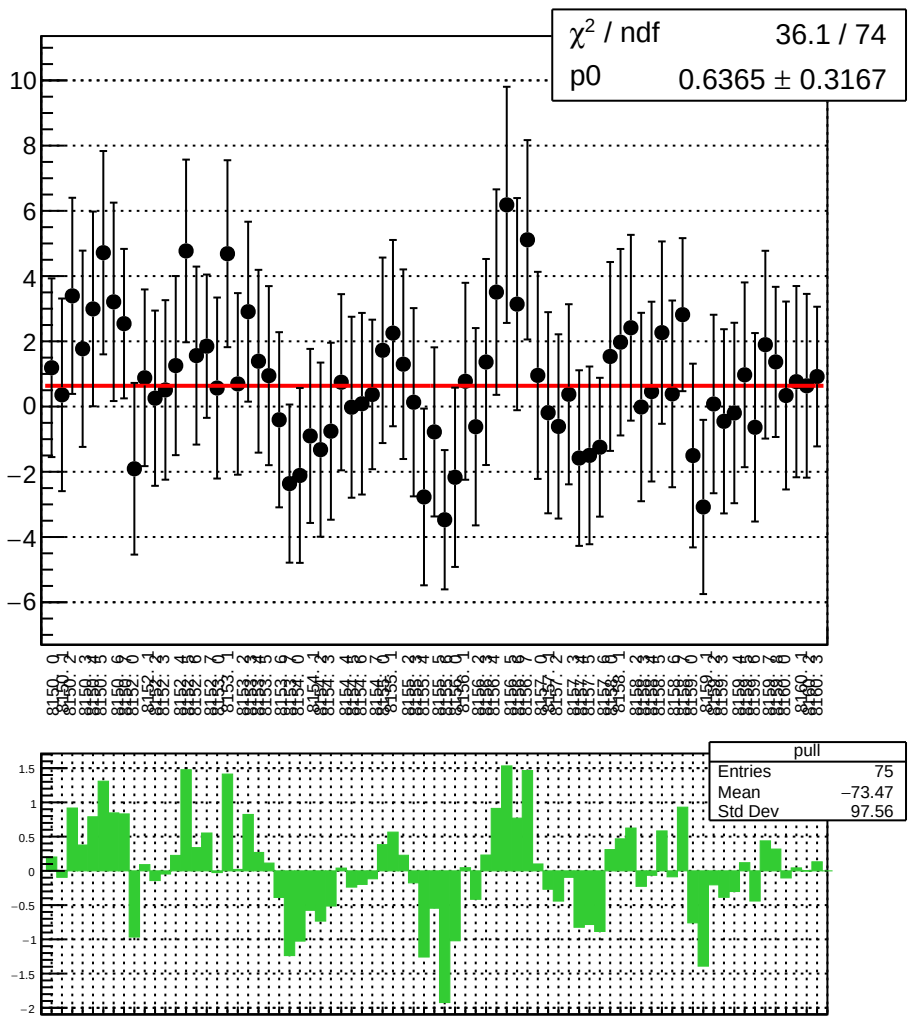

pull1D
Entries 75
Mean 0.0009529
Std Dev 0.1709

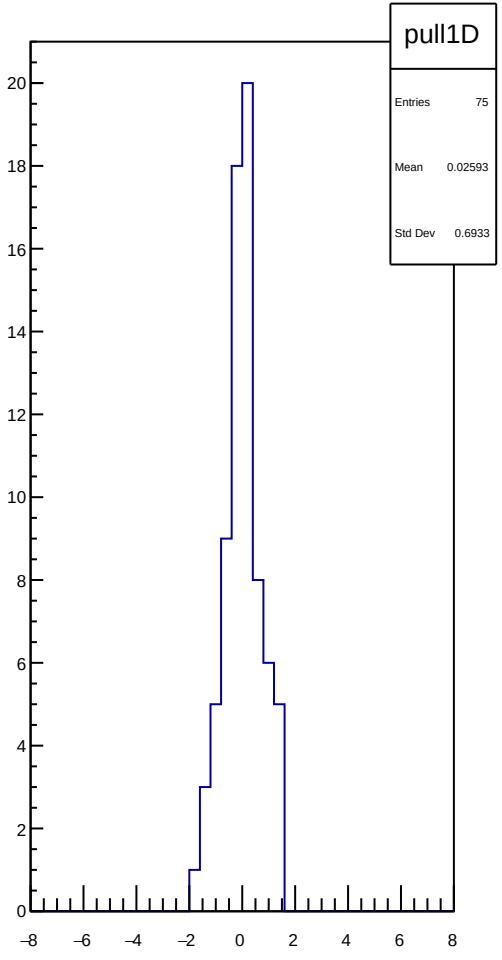

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.93 / 74
p0 −0.6273 ± 0.06696
pull
Entries 75
Mean 222.3
Std Dev 172.8
pull1D
Entries 75
Mean −0.001891
Std Dev 0.1604

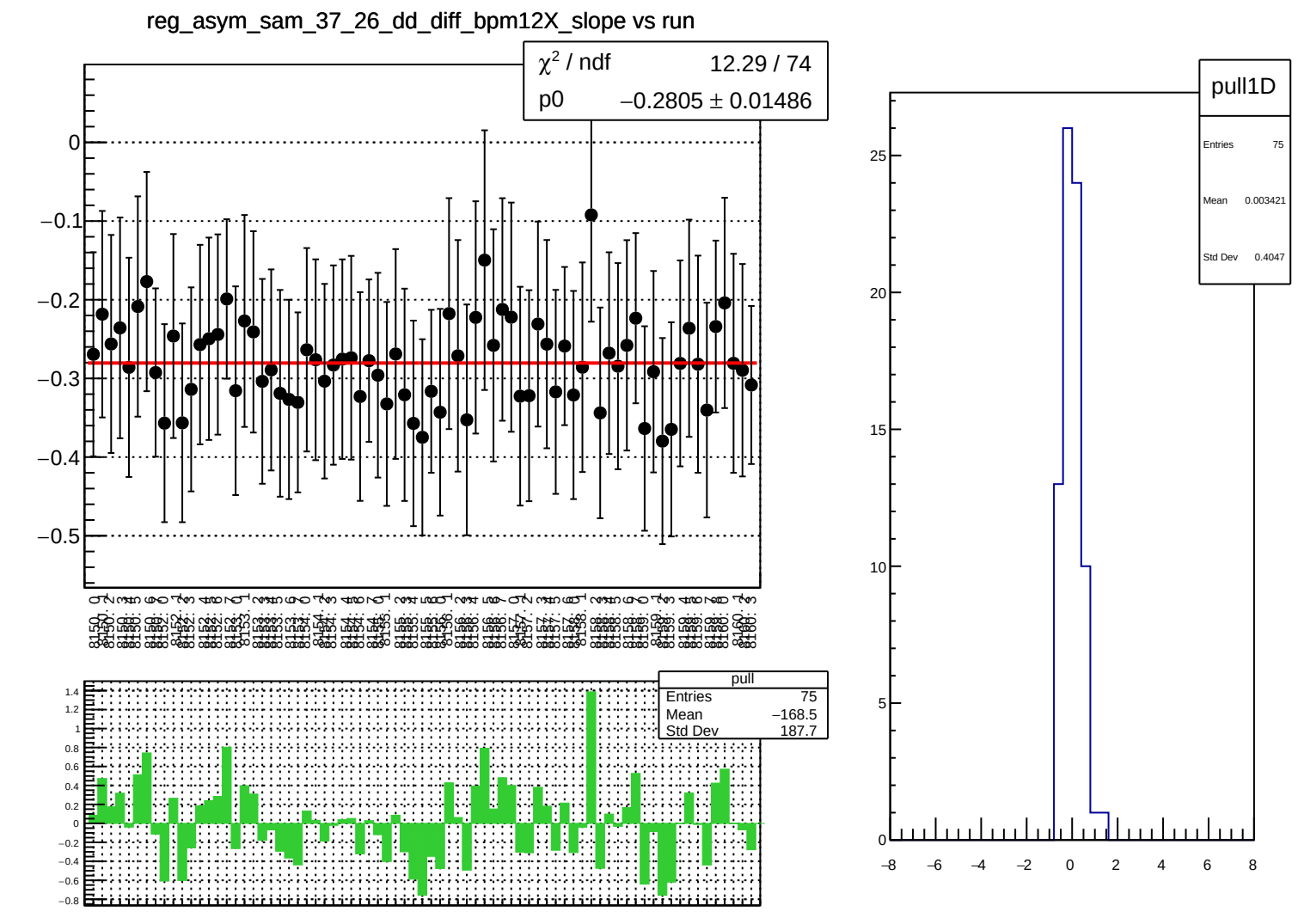

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 10.21 / 74
p0 3.189 ± 0.1576
pull
Entries 75
Mean 181.3
Std Dev 162.4
pull1D
Entries 75
Mean 0.005875
Std Dev 0.369

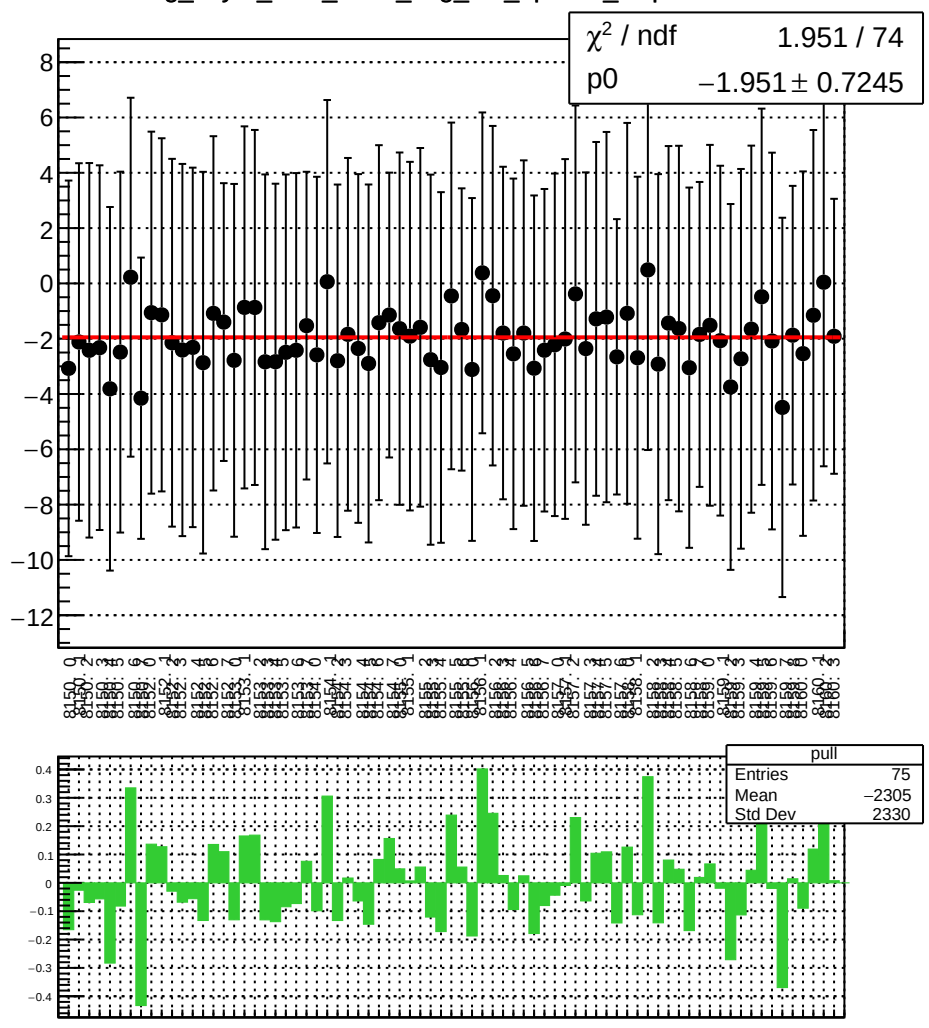

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.65 / 74
p0 22.82 ± 0.2955
pull
Entries 75
Mean −138.9
Std Dev 166
pull1D
Entries 75
Mean −0.01817
Std Dev 0.639

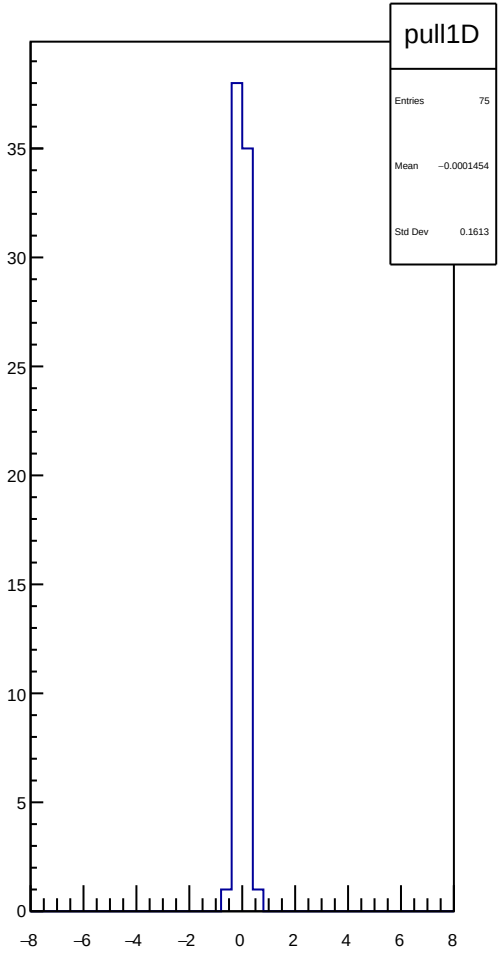

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.803 / 74
p0 −9.543 ± 0.1597
pull
Entries 75
Mean 376.5
Std Dev 363.3
pull1D
Entries 75
Mean −0.002655
Std Dev 0.3615

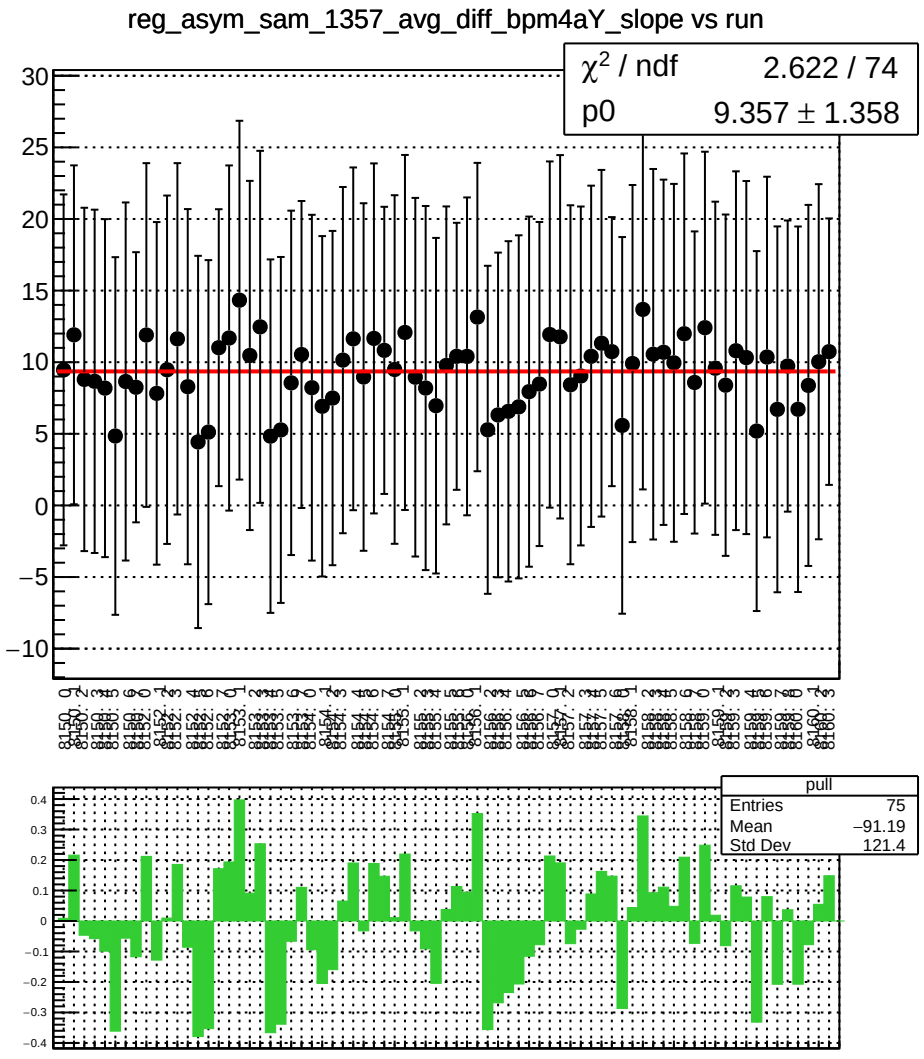

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.1 / 74
p0 0.6365 ± 0.3167
pull
Entries 75
Mean −73.47
Std Dev 97.56

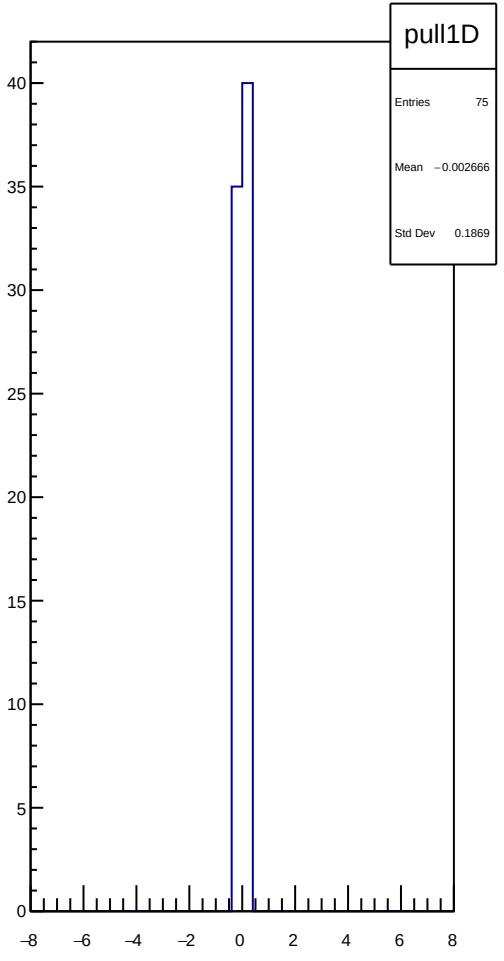

pull1D
Entries 75
Mean 0.02593
Std Dev 0.6933

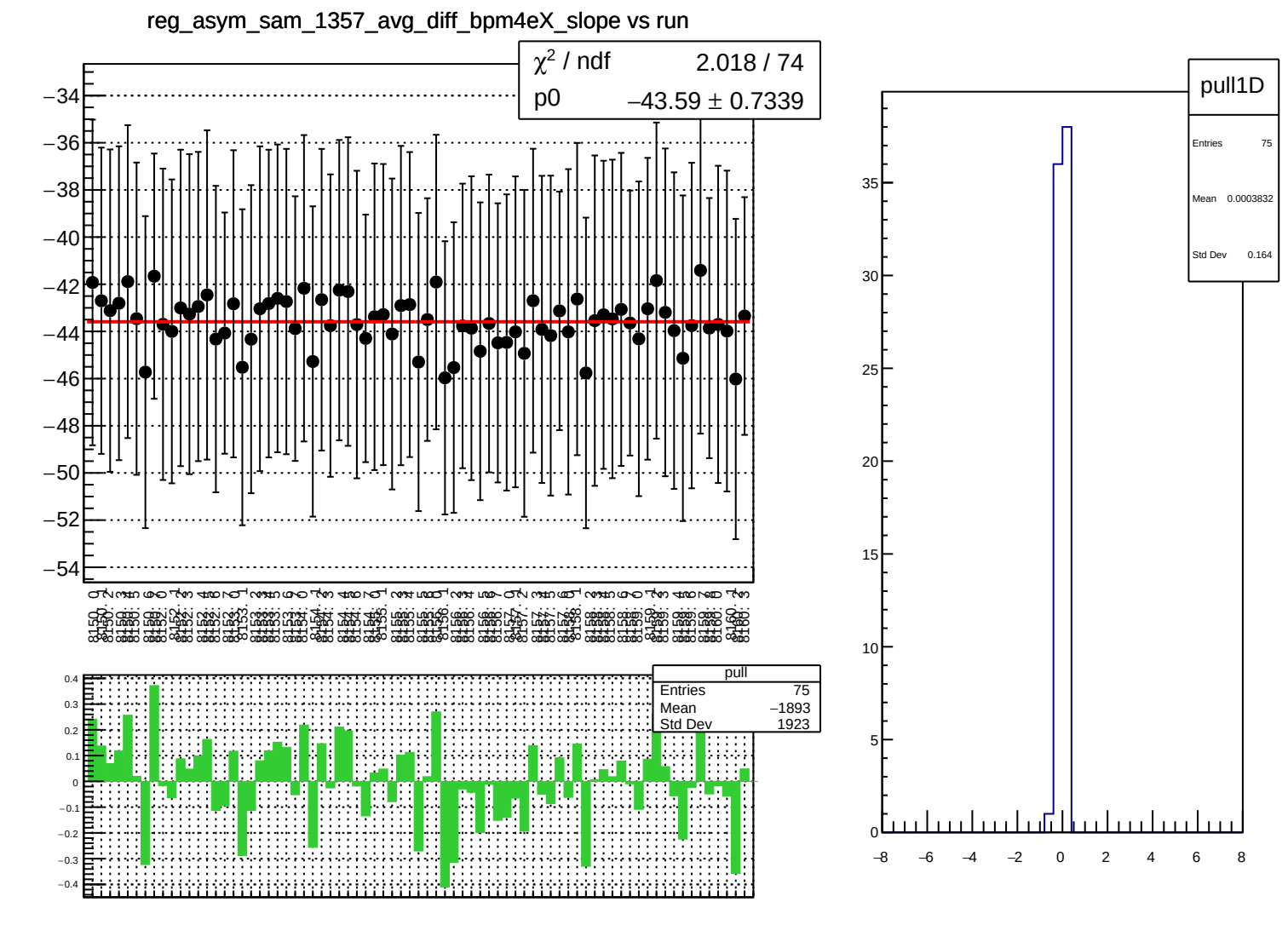

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 12.29 / 74
p0 −0.2805 ± 0.01486
pull
Entries 75
Mean −168.5
Std Dev 187.7
pull1D
Entries 75
Mean 0.003421
Std Dev 0.4047

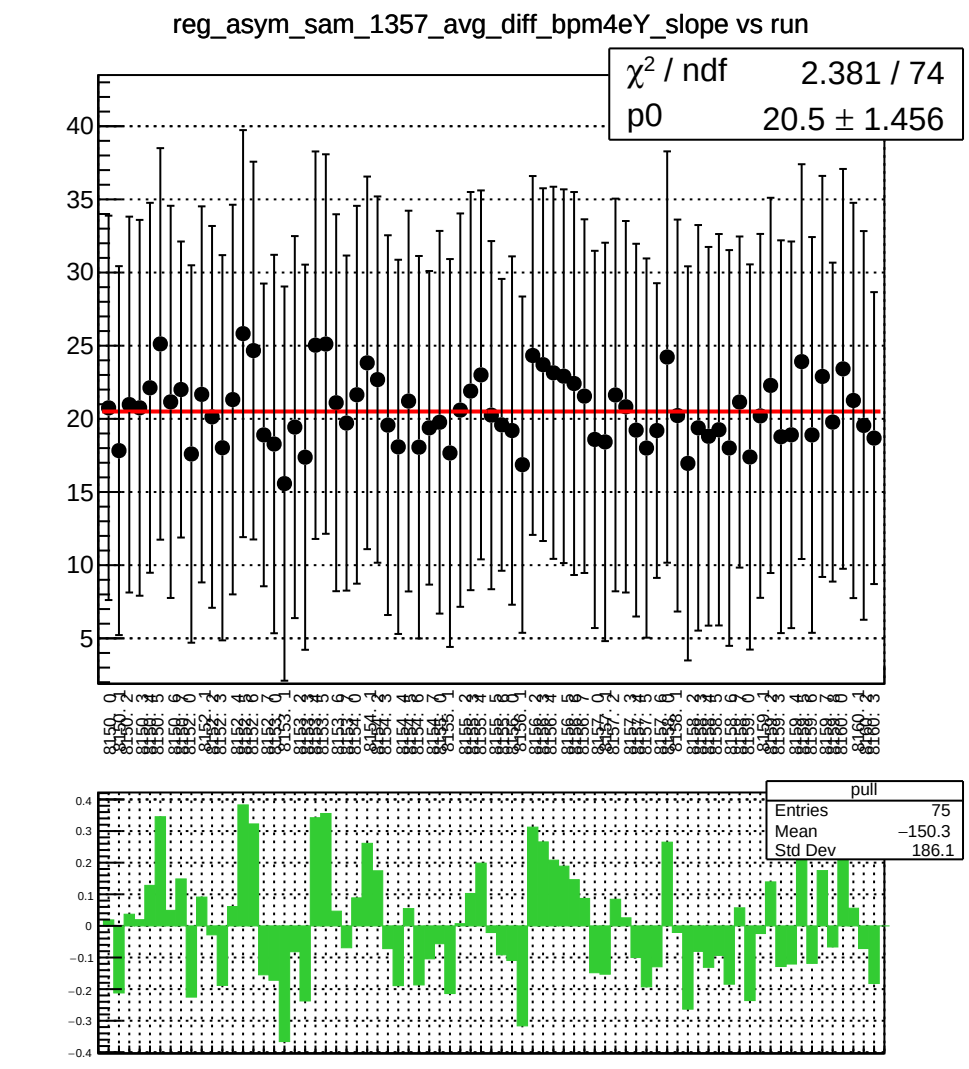

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 1.951 / 74
p0 −1.951 ± 0.7245
pull
Entries 75
Mean −2305
Std Dev 2330

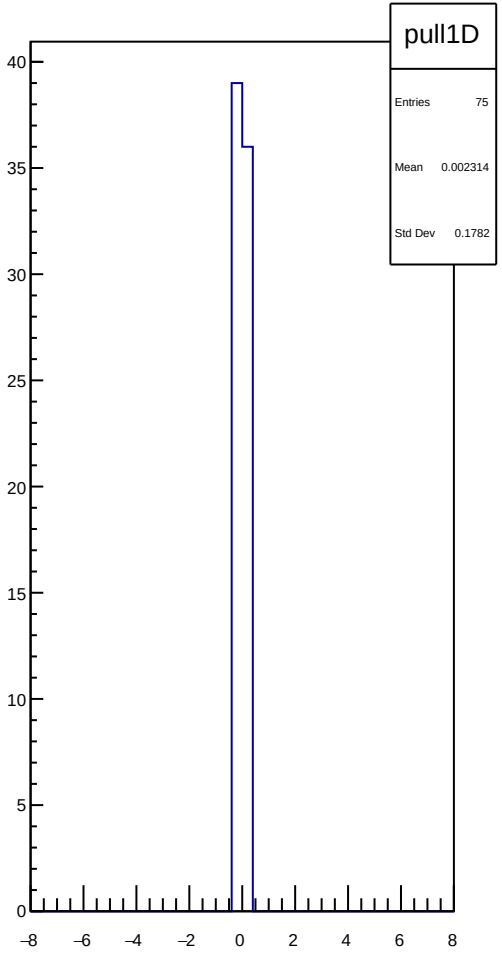

pull1D
Entries 75
Mean −0.0001454
Std Dev 0.1613

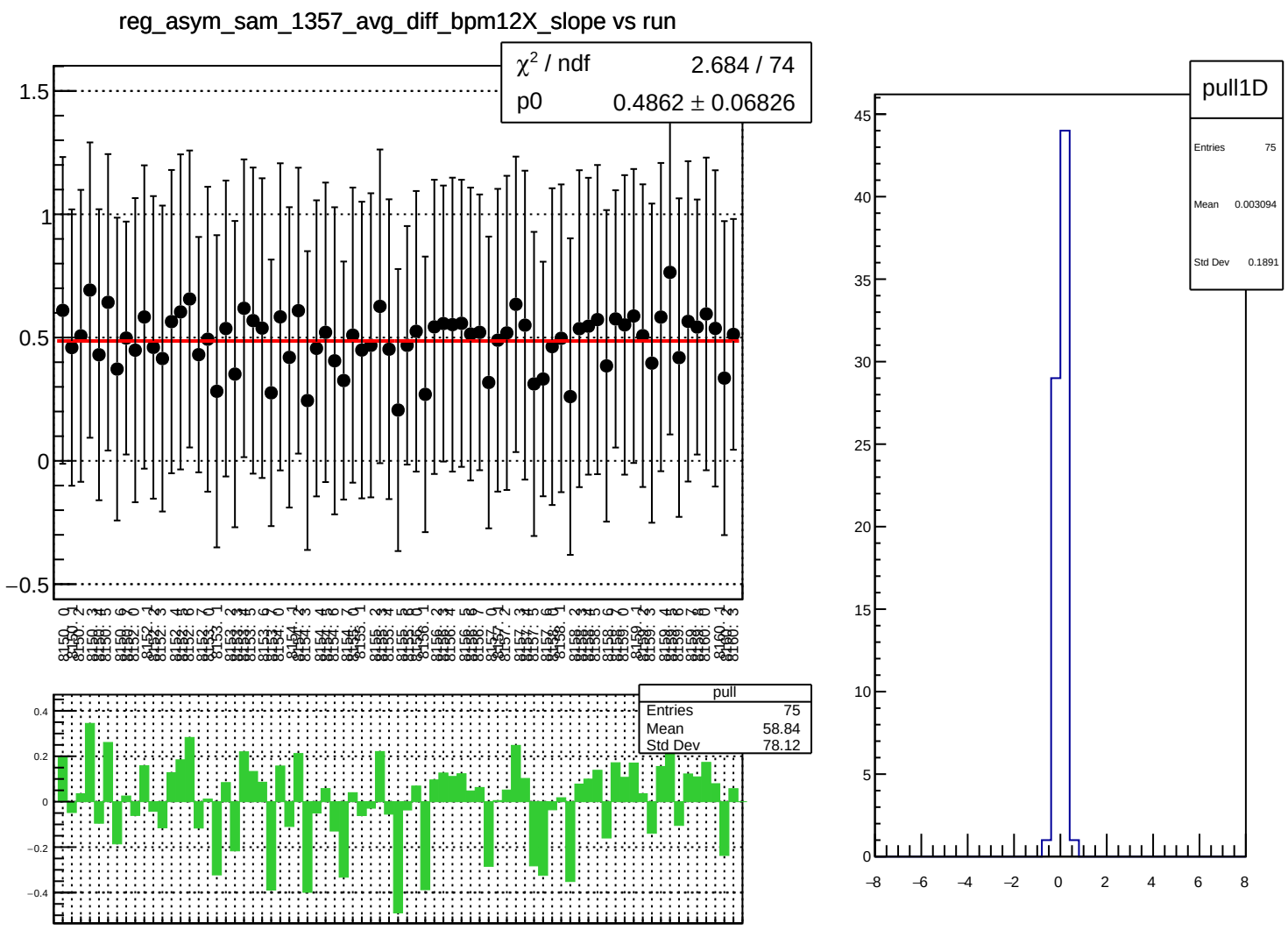

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.622 / 74
p0 9.357 ± 1.358
pull
Entries 75
Mean −91.19
Std Dev 121.4

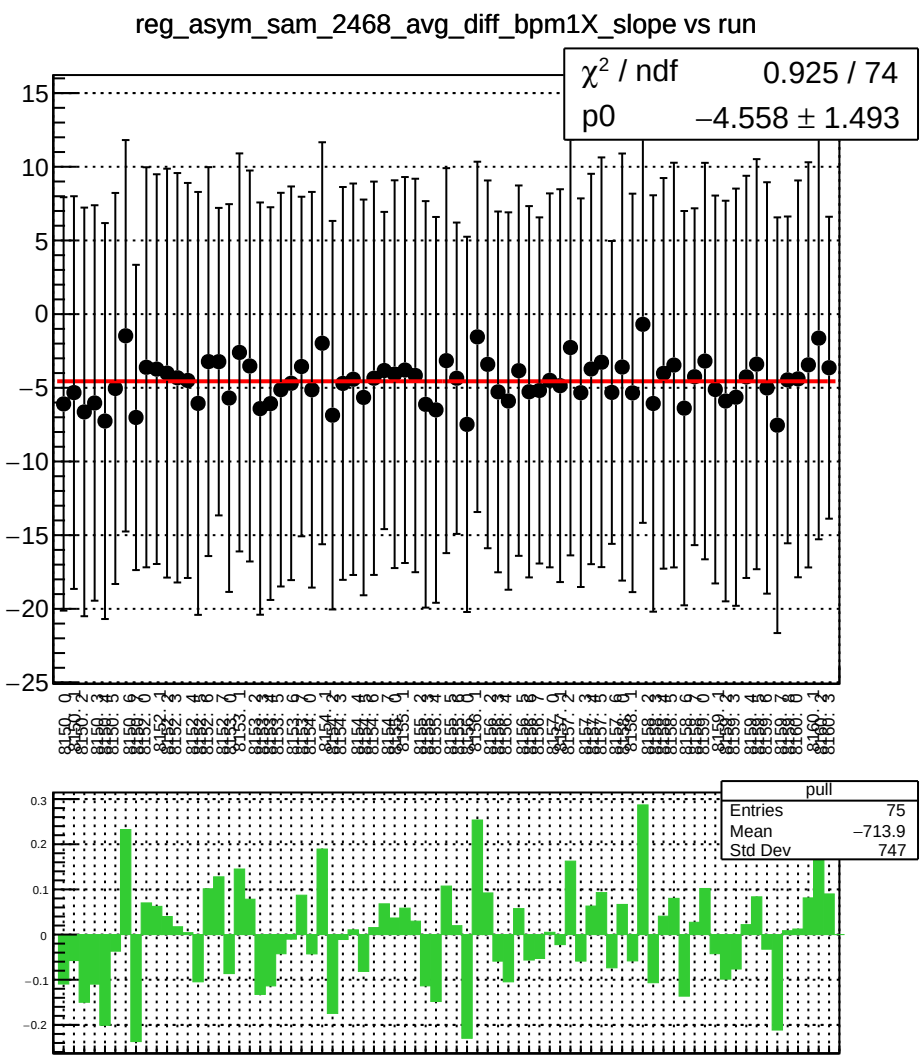

pull1D
Entries 75
Mean −0.002666
Std Dev 0.1869

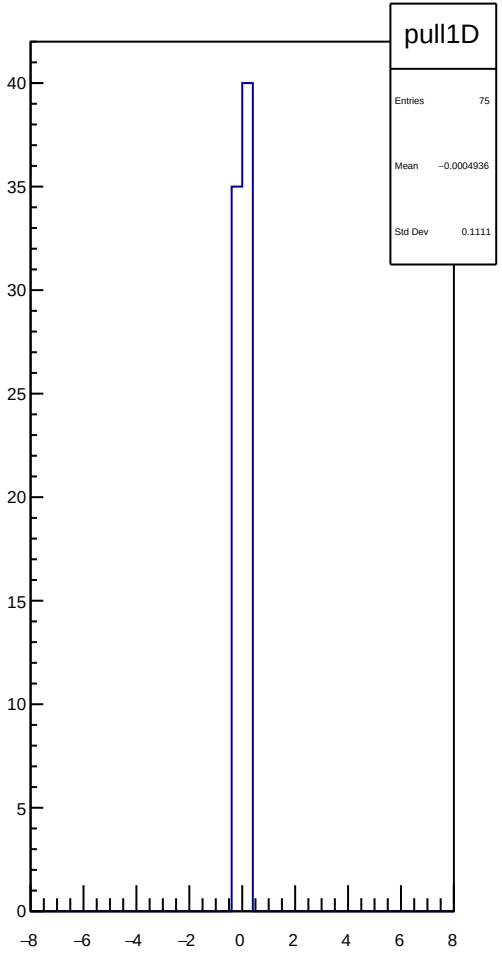

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.018 / 74
p0 −43.59 ± 0.7339
pull
Entries 75
Mean −1893
Std Dev 1923
pull1D
Entries 75
Mean 0.0003832
Std Dev 0.164

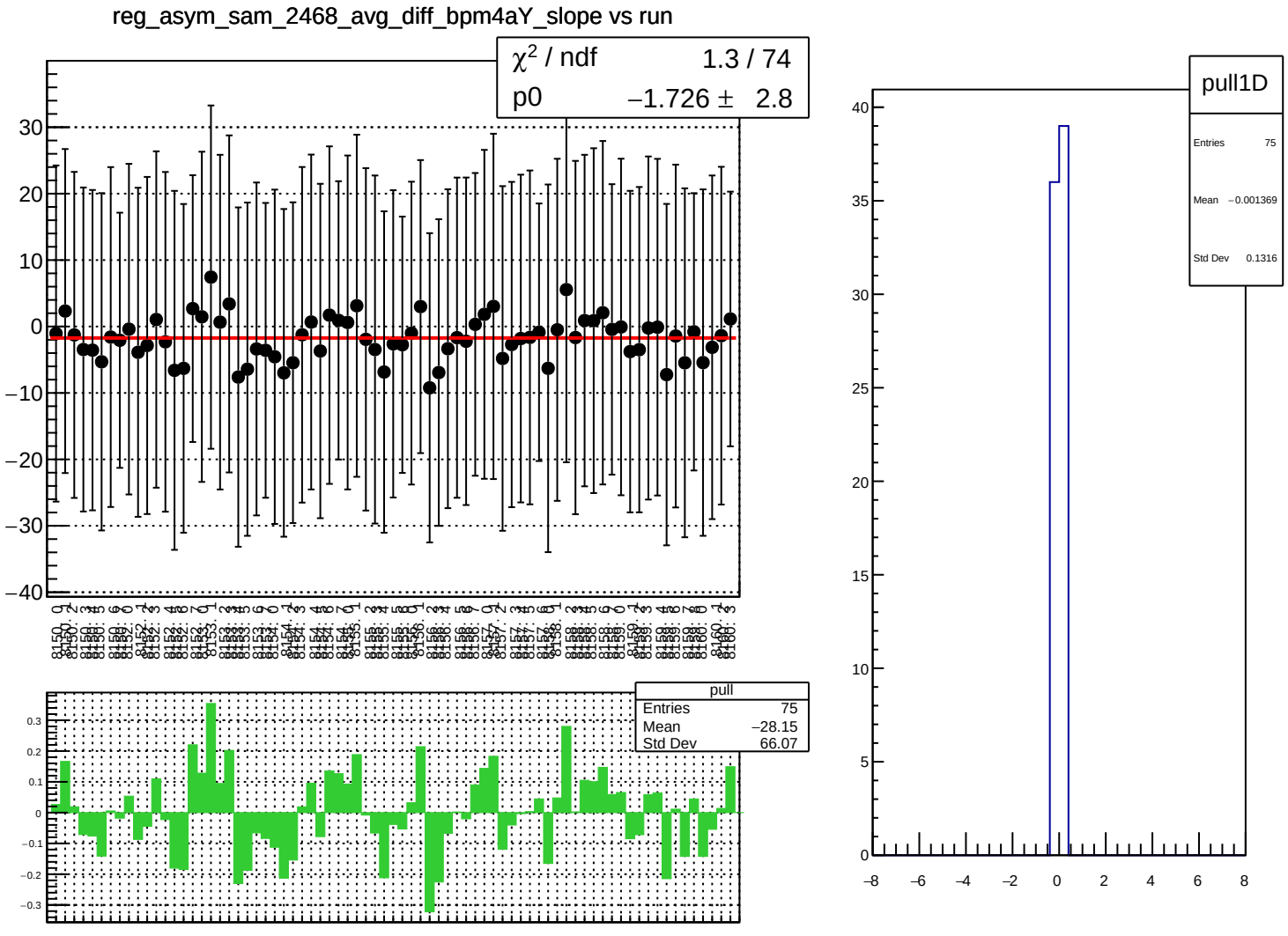

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.381 / 74
p0 20.5 ± 1.456
pull
Entries 75
Mean −150.3
Std Dev 186.1

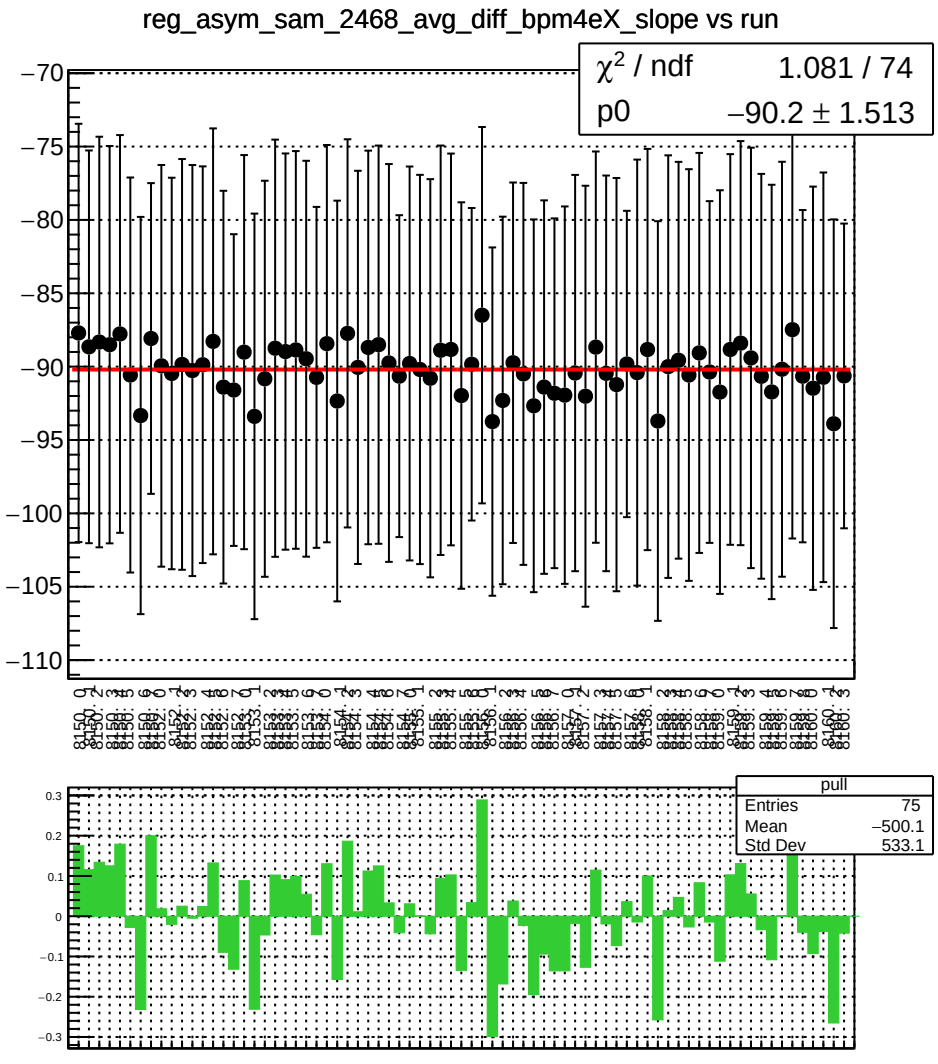

pull1D
Entries 75
Mean 0.002314
Std Dev 0.1782

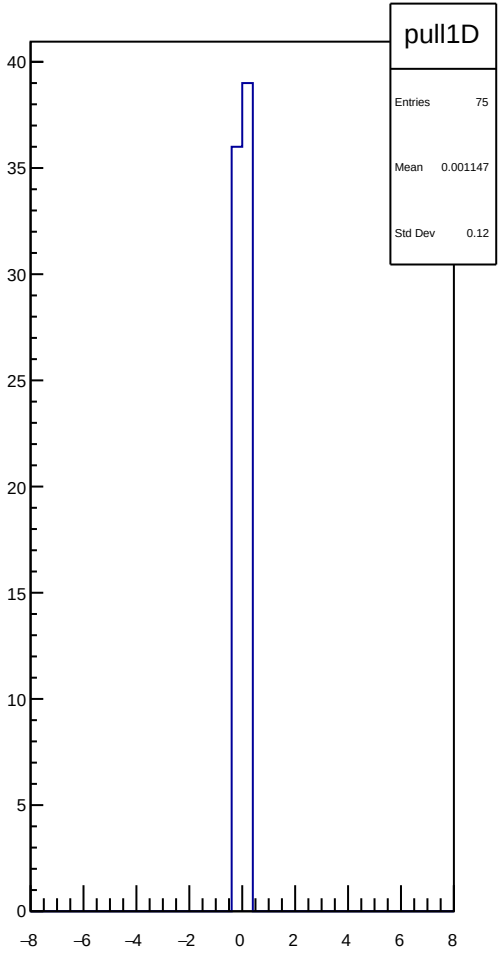

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 2.684 / 74
p0 0.4862 ± 0.06826
pull
Entries 75
Mean 58.84
Std Dev 78.12
pull1D
Entries 75
Mean 0.003094
Std Dev 0.1891

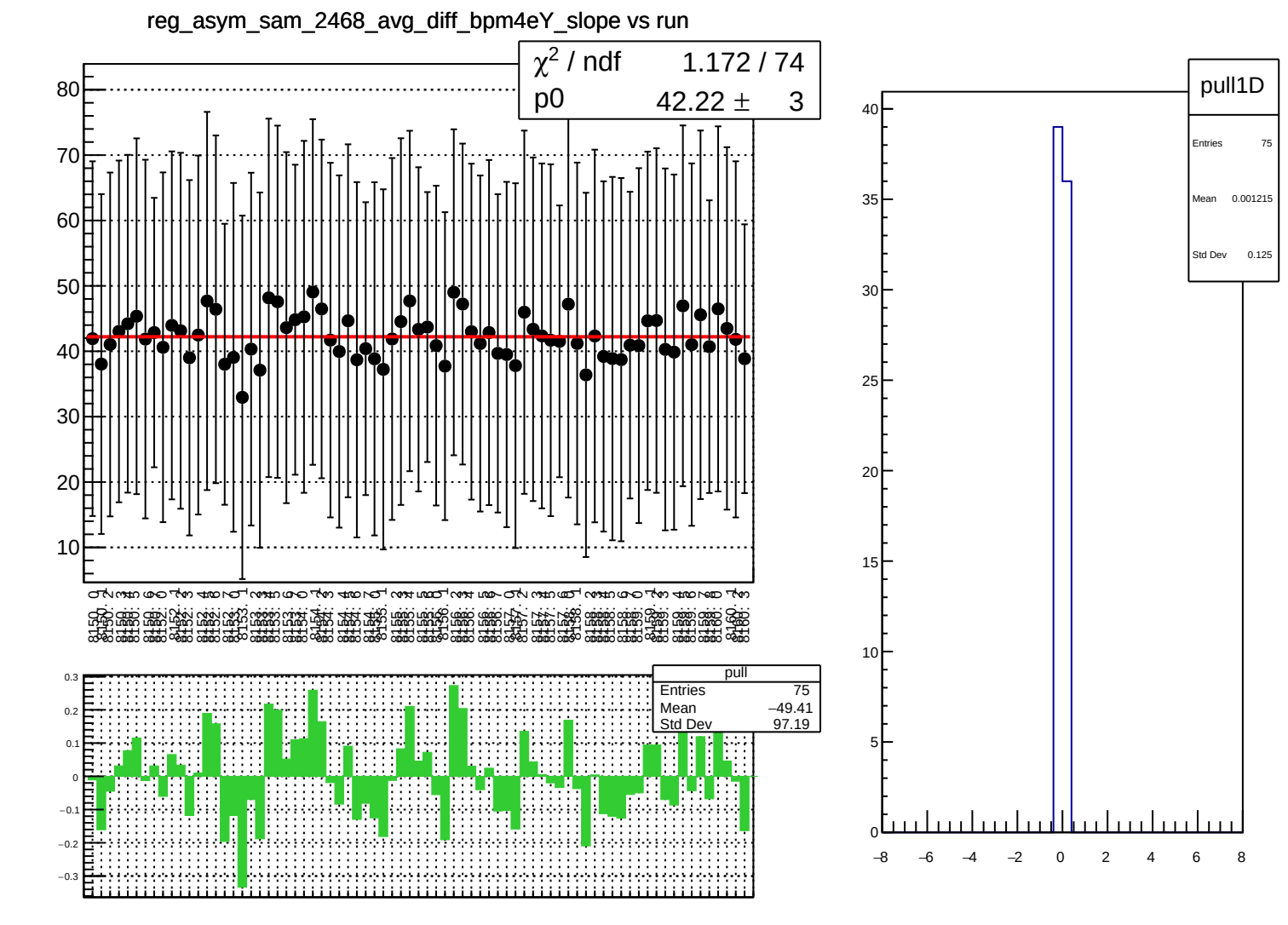

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 0.925 / 74
p0 −4.558 ± 1.493
pull
Entries 75
Mean −713.9
Std Dev 747

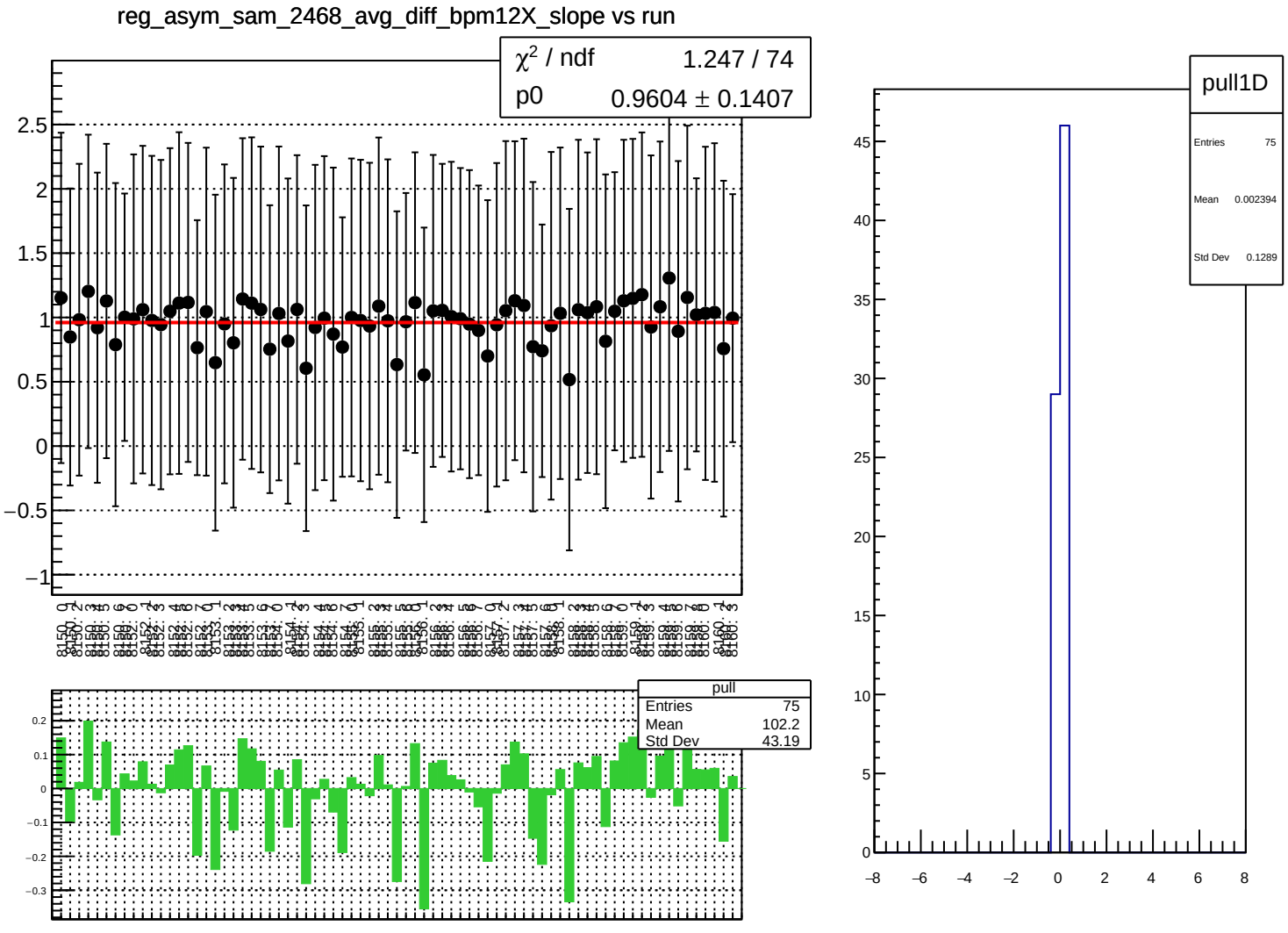

pull1D
Entries 75
Mean −0.0004936
Std Dev 0.1111

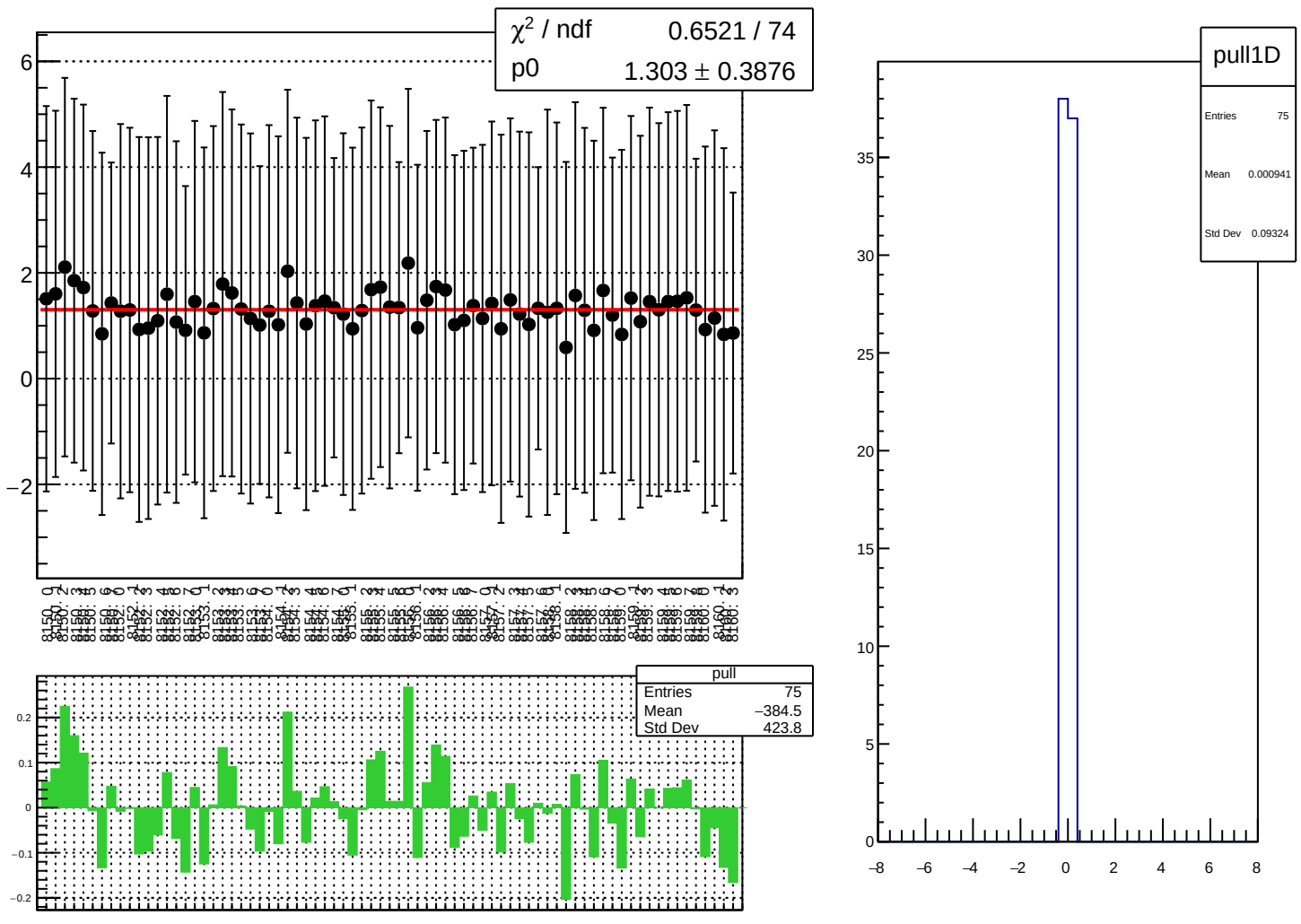

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.3 / 74
p0 −1.726 ± 2.8
pull
Entries 75
Mean −28.15
Std Dev 66.07
pull1D
Entries 75
Mean −0.001369
Std Dev 0.1316

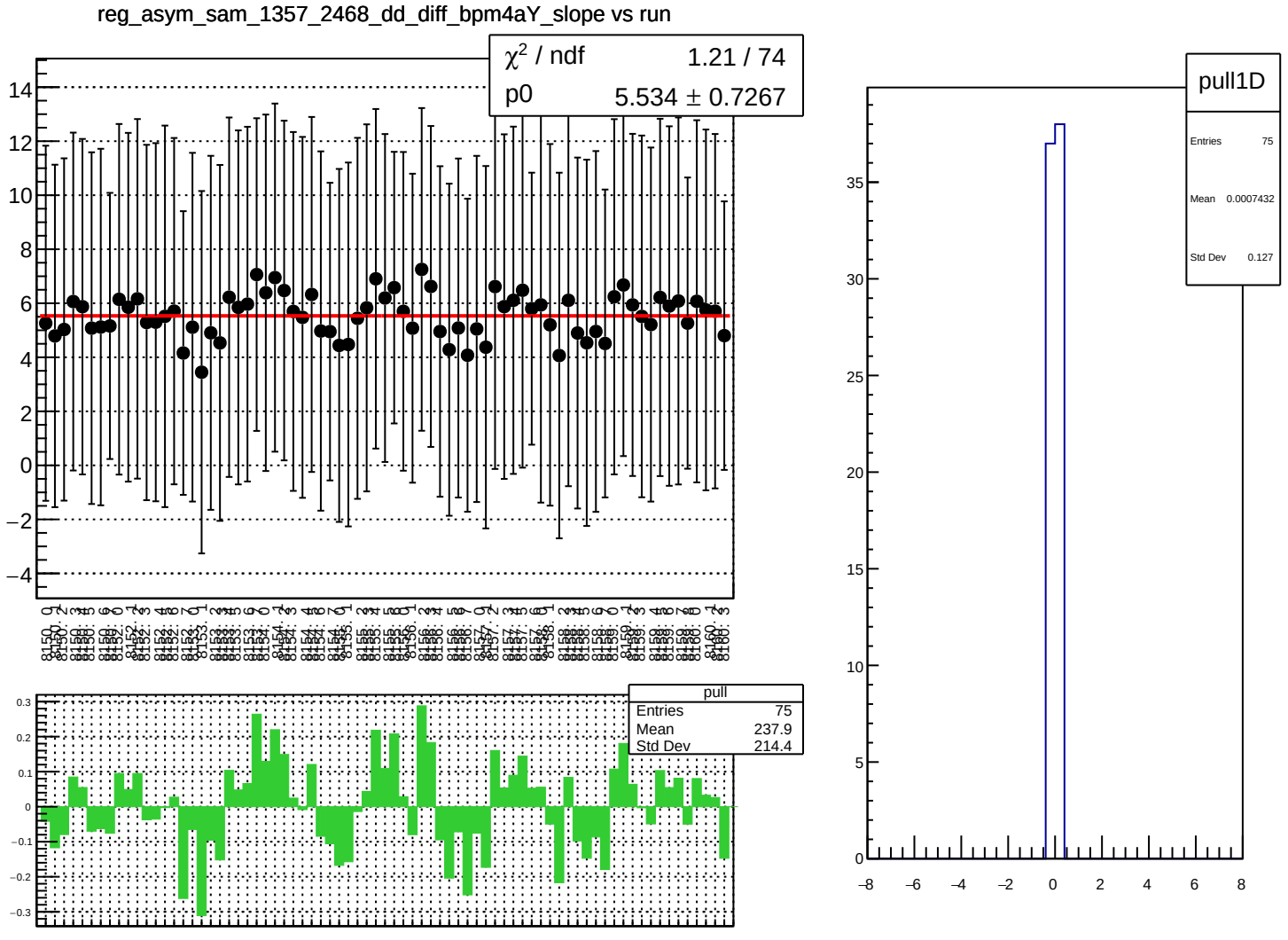

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.081 / 74
p0 −90.2 ± 1.513
pull
Entries 75
Mean −500.1
Std Dev 533.1

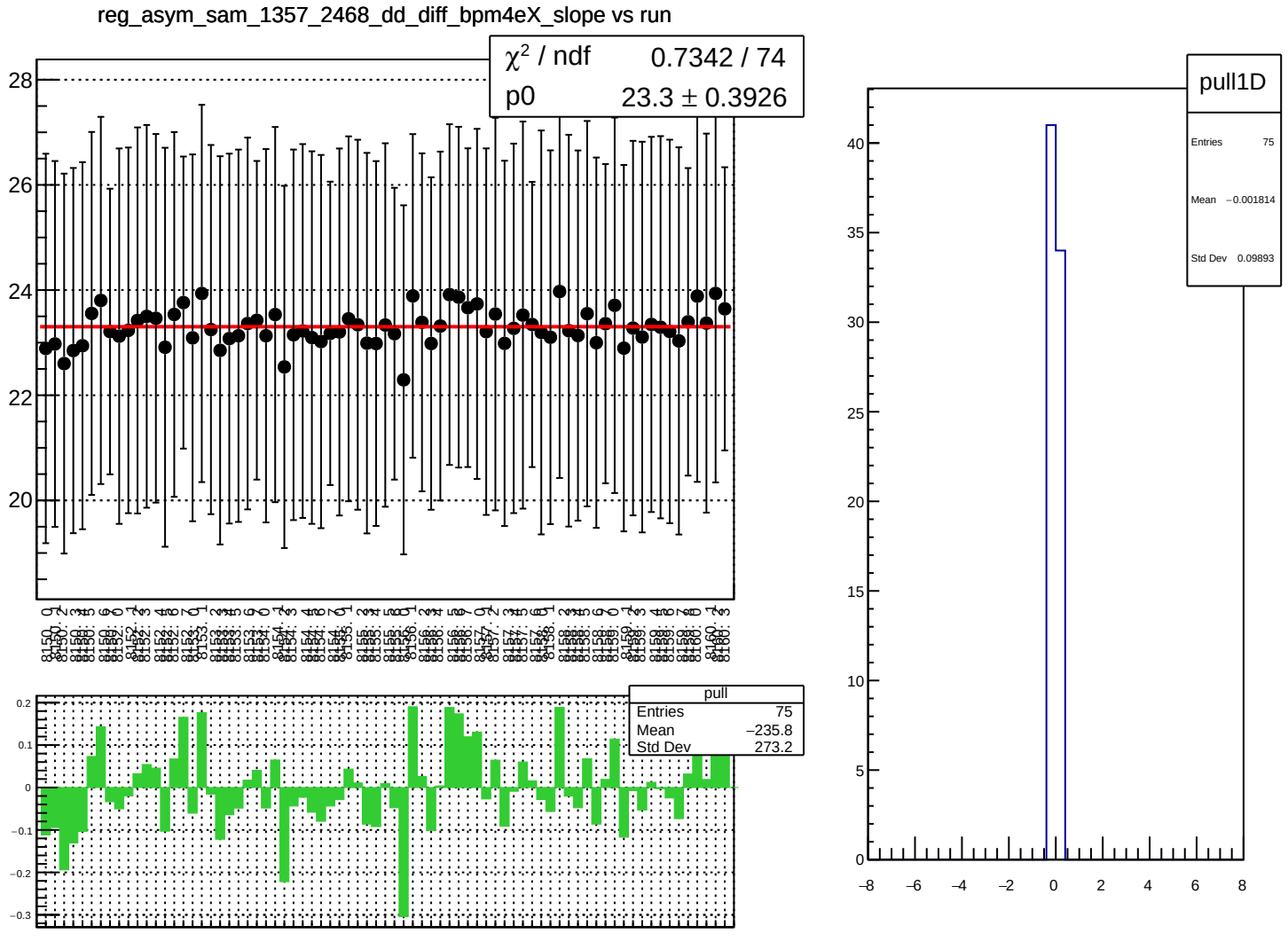

pull1D
Entries 75
Mean 0.001147
Std Dev 0.12

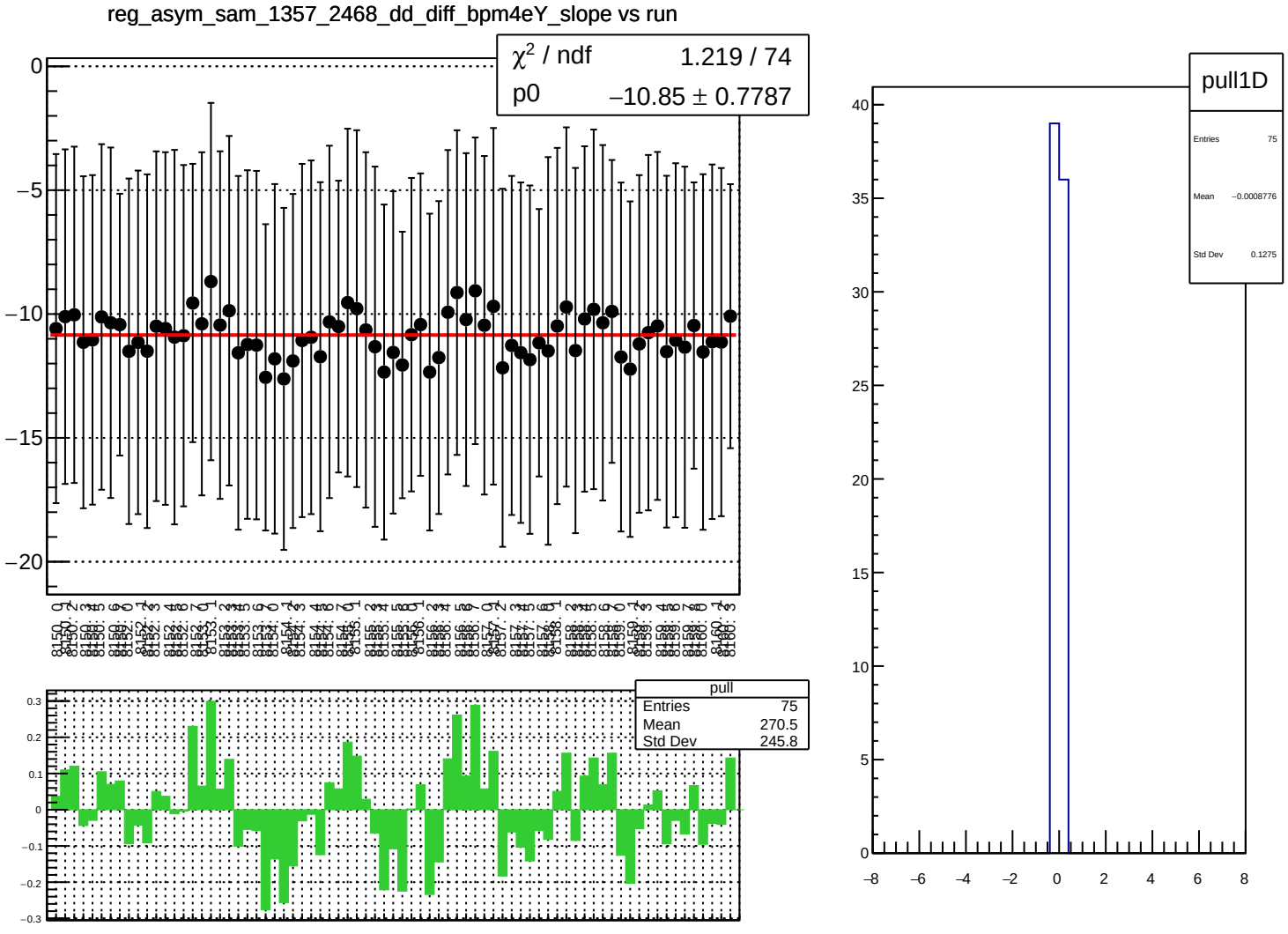

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.172 / 74
p0 42.22 ± 3
pull
Entries 75
Mean −49.41
Std Dev 97.19
pull1D
Entries 75
Mean 0.001215
Std Dev 0.125

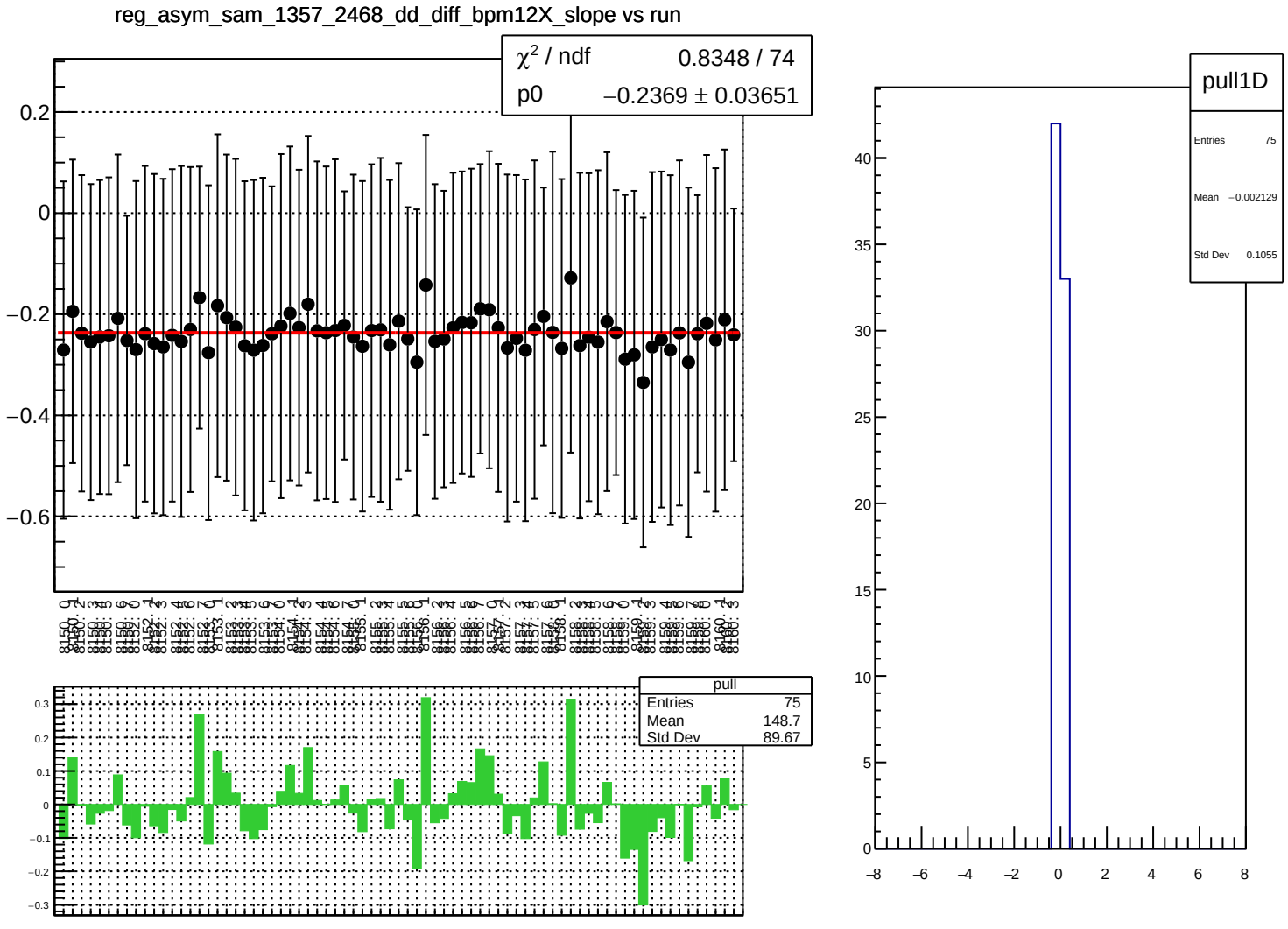

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1.247 / 74
p0 0.9604 ± 0.1407
pull
Entries 75
Mean 102.2
Std Dev 43.19
pull1D
Entries 75
Mean 0.002394
Std Dev 0.1289

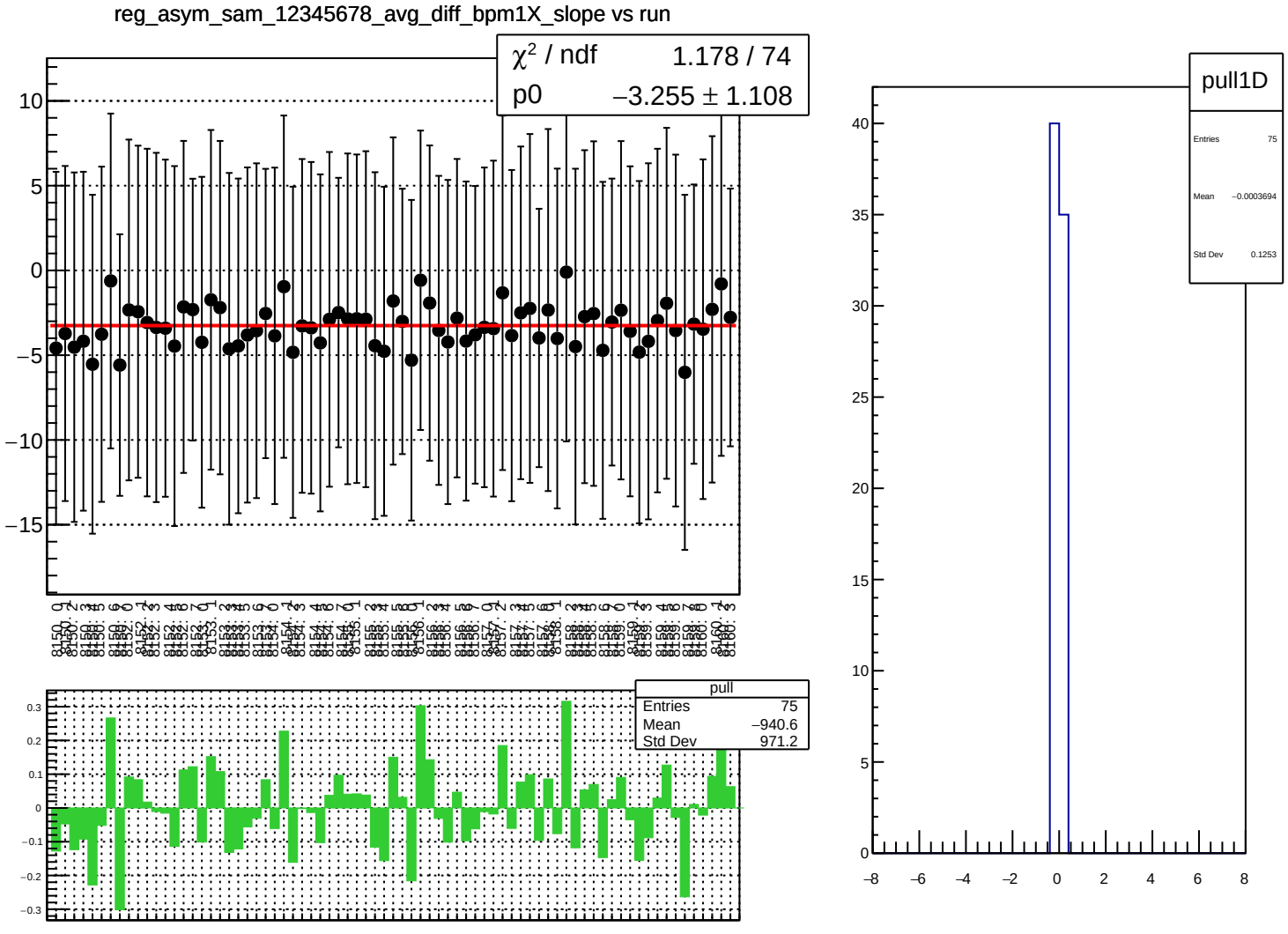

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 0.6521 / 74
p0 1.303 ± 0.3876
pull
Entries 75
Mean −384.5
Std Dev 423.8
pull1D
Entries 75
Mean 0.000941
Std Dev 0.09324

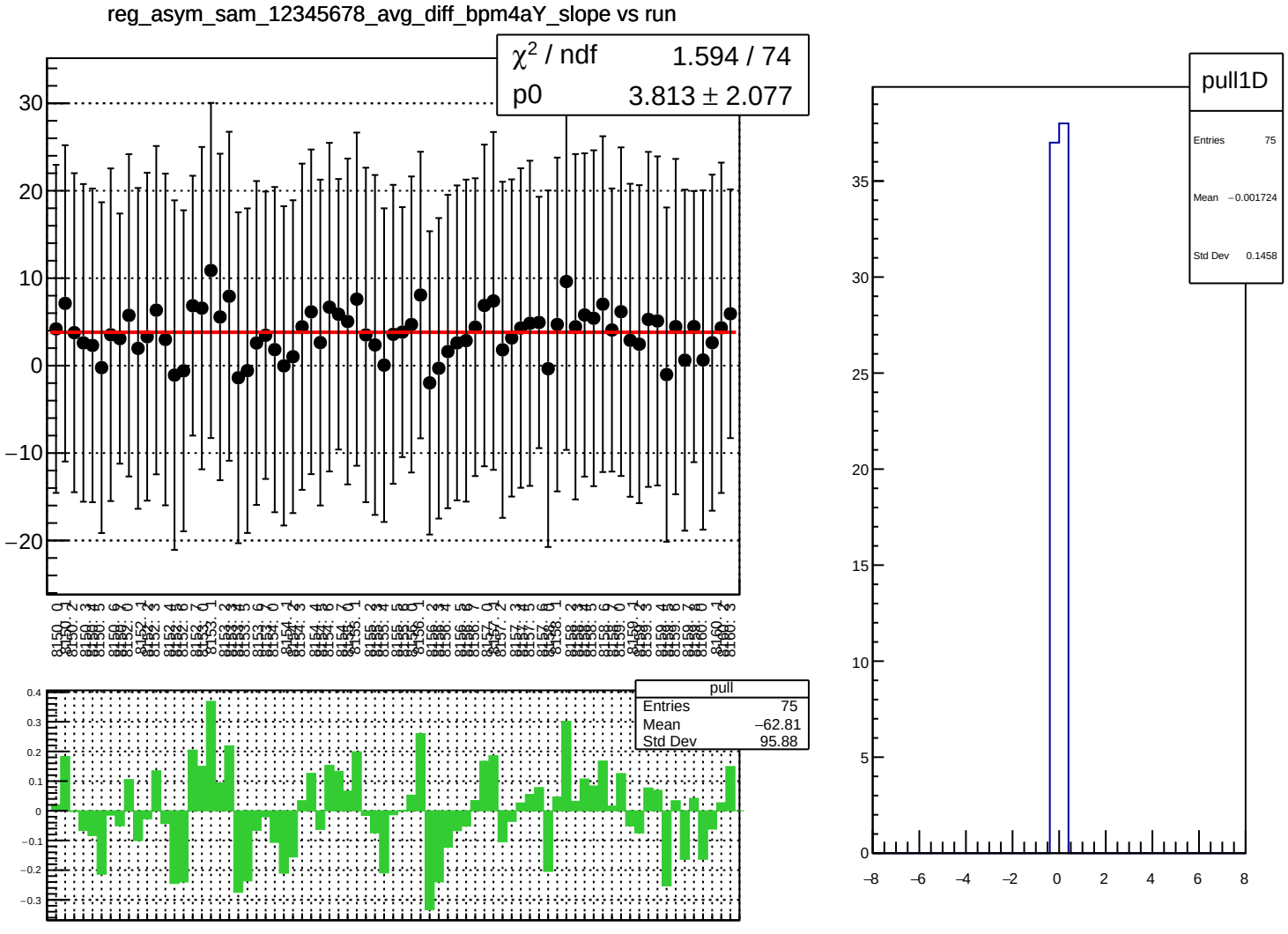

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.21 / 74
p0 5.534 ± 0.7267
pull
Entries 75
Mean 237.9
Std Dev 214.4
pull1D
Entries 75
Mean 0.0007432
Std Dev 0.127

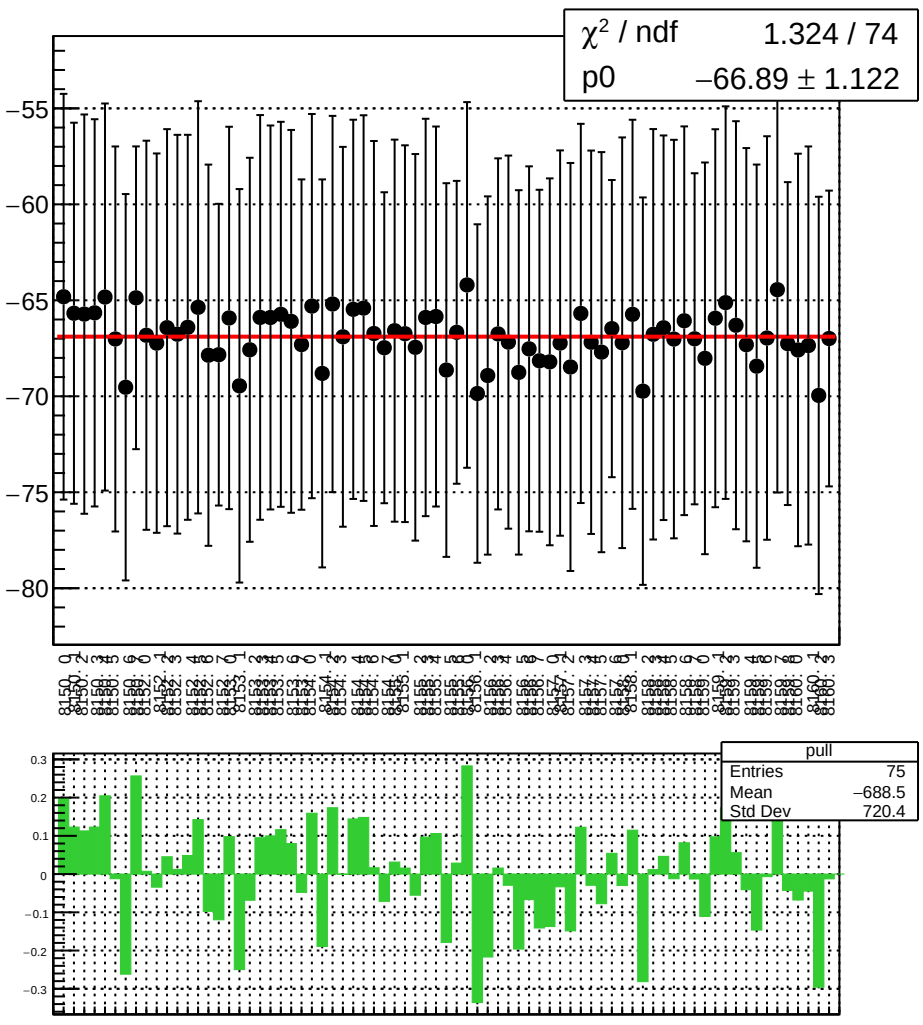

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.7342 / 74
p0 23.3 ± 0.3926
pull
Entries 75
Mean −235.8
Std Dev 273.2
pull1D
Entries 75
Mean −0.001814
Std Dev 0.09893

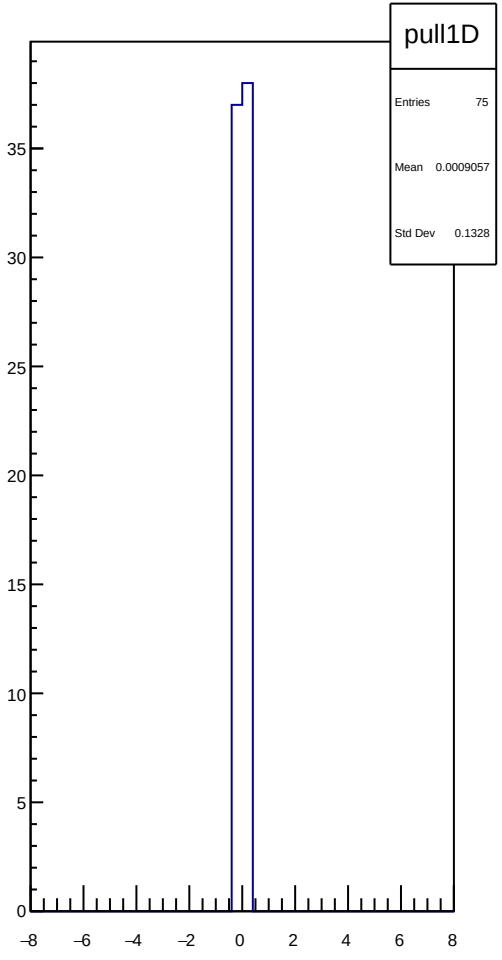

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.219 / 74
p0 −10.85 ± 0.7787
pull
Entries 75
Mean 270.5
Std Dev 245.8
pull1D
Entries 75
Mean −0.0008776
Std Dev 0.1275

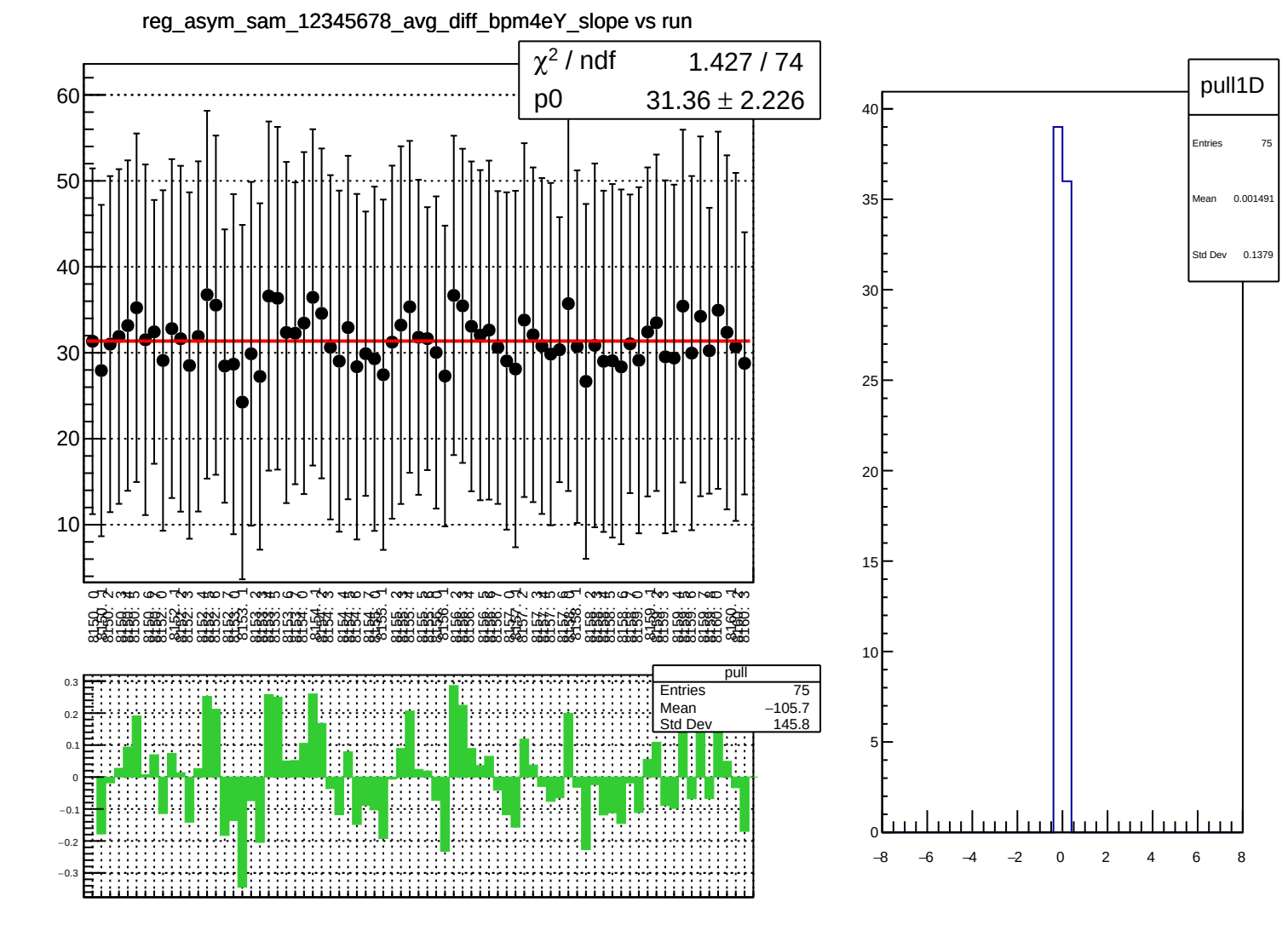

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0.8348 / 74
p0 −0.2369 ± 0.03651
pull
Entries 75
Mean 148.7
Std Dev 89.67
pull1D
Entries 75
Mean −0.002129
Std Dev 0.1055

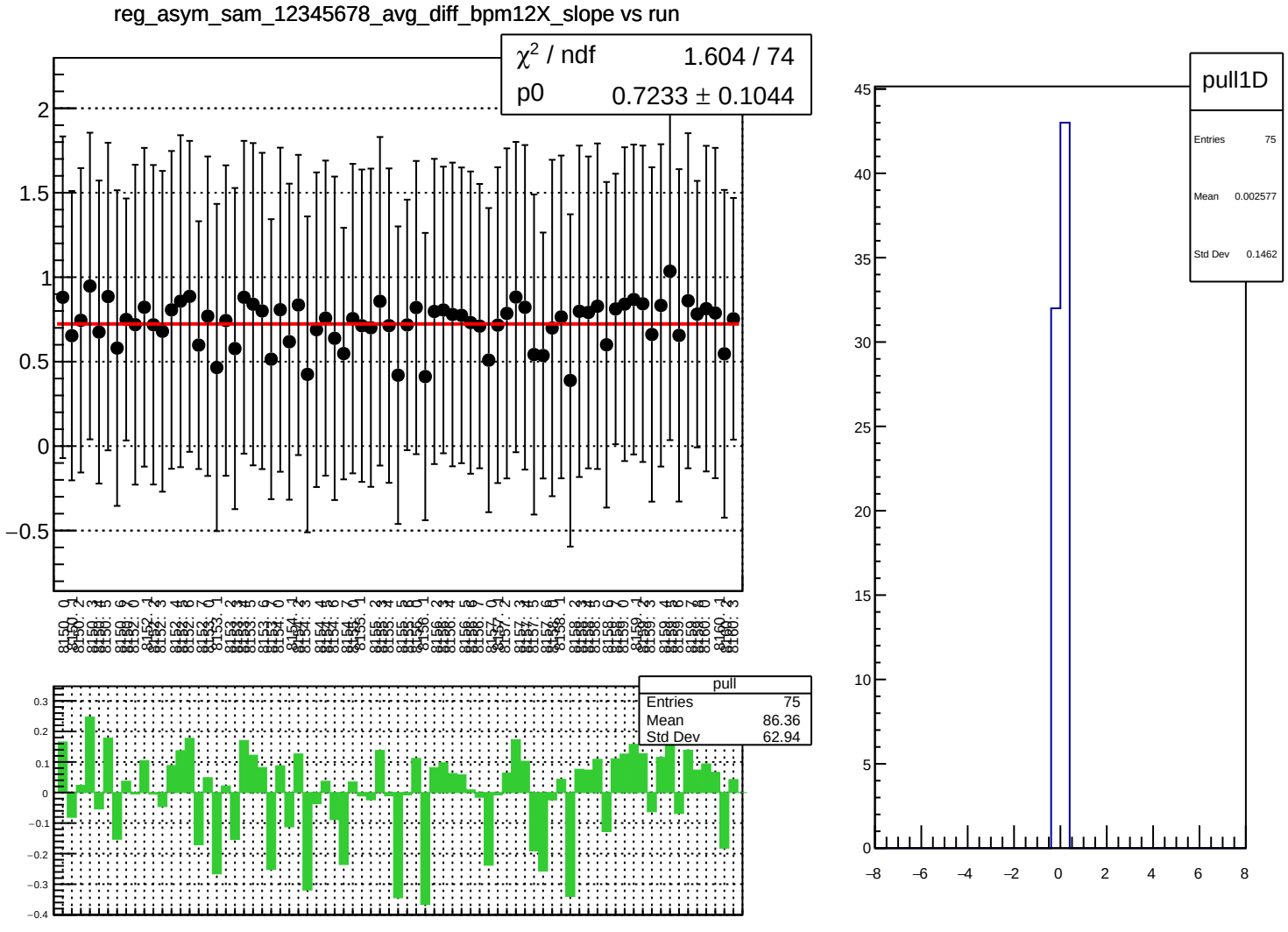

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 1.178 / 74
p0 −3.255 ± 1.108
pull
Entries 75
Mean −940.6
Std Dev 971.2
pull1D
Entries 75
Mean −0.0003694
Std Dev 0.1253

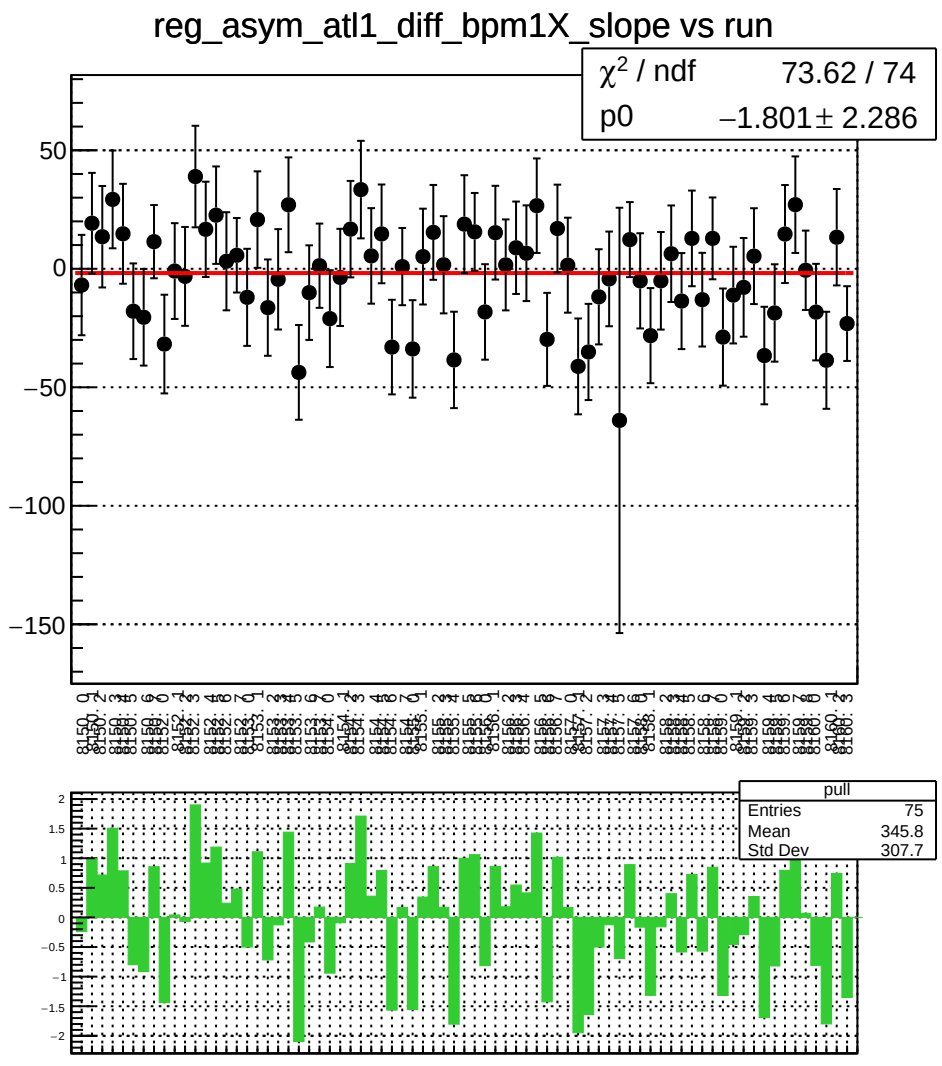

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.594 / 74
p0 3.813 ± 2.077
pull
Entries 75
Mean −62.81
Std Dev 95.88
pull1D
Entries 75
Mean −0.001724
Std Dev 0.1458

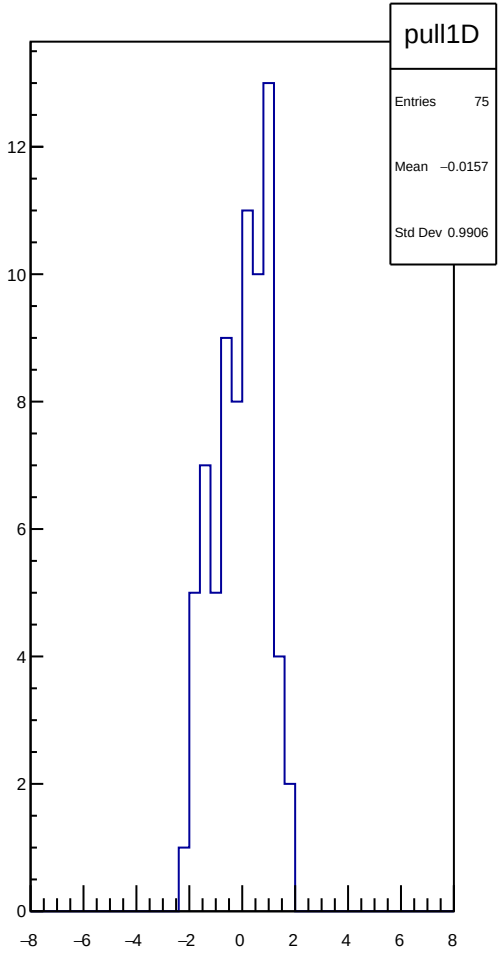

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.324 / 74
p0 −66.89 ± 1.122
pull
Entries 75
Mean −688.5
Std Dev 720.4

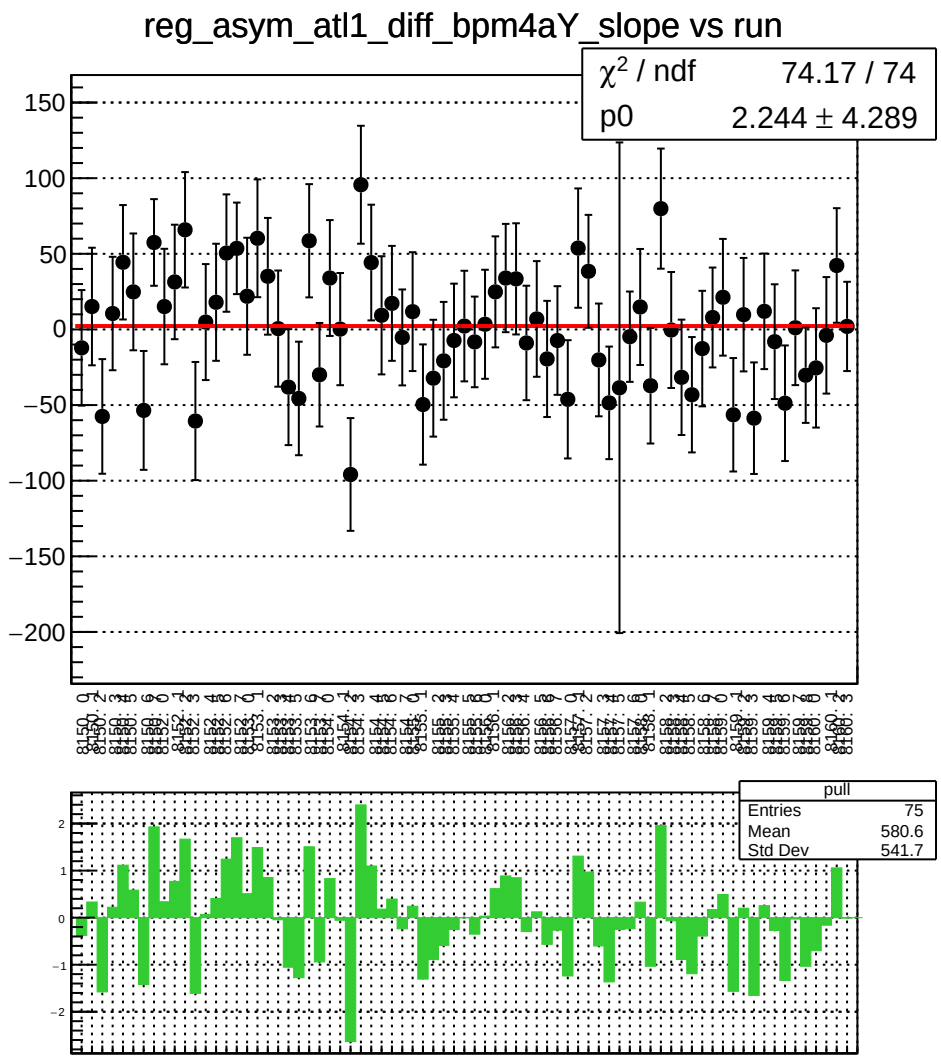

pull1D
Entries 75
Mean 0.0009057
Std Dev 0.1328

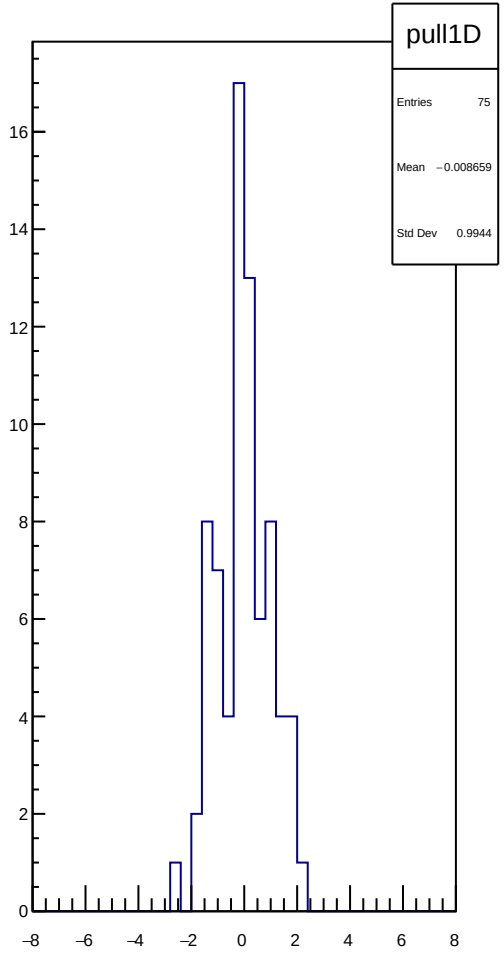

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.427 / 74
p0 31.36 ± 2.226
pull
Entries 75
Mean −105.7
Std Dev 145.8
pull1D
Entries 75
Mean 0.001491
Std Dev 0.1379

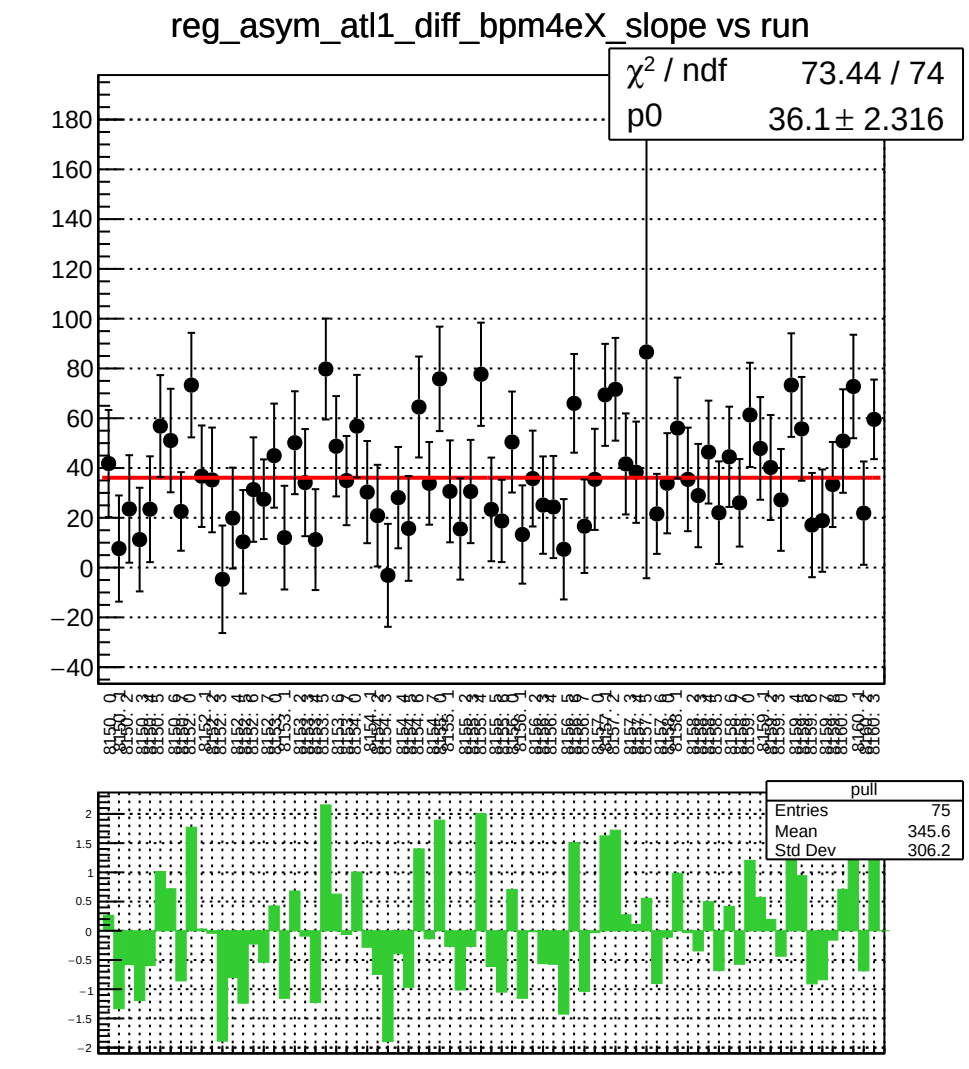

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 1.604 / 74
p0 0.7233 ± 0.1044
pull
Entries 75
Mean 86.36
Std Dev 62.94
pull1D
Entries 75
Mean 0.002577
Std Dev 0.1462

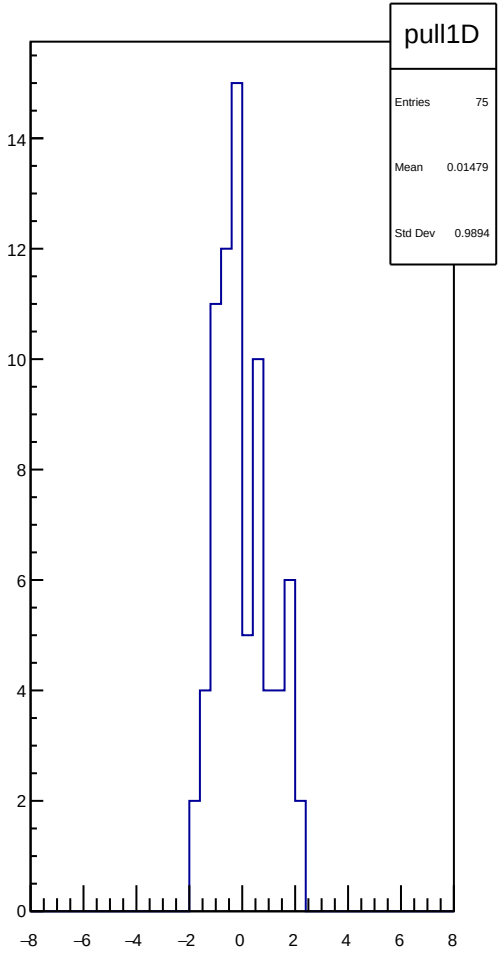

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 73.62 / 74
p0 −1.801 ± 2.286
50
0
−50
−100
−150
pull
Entries 75
Mean 345.8
Std Dev 307.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

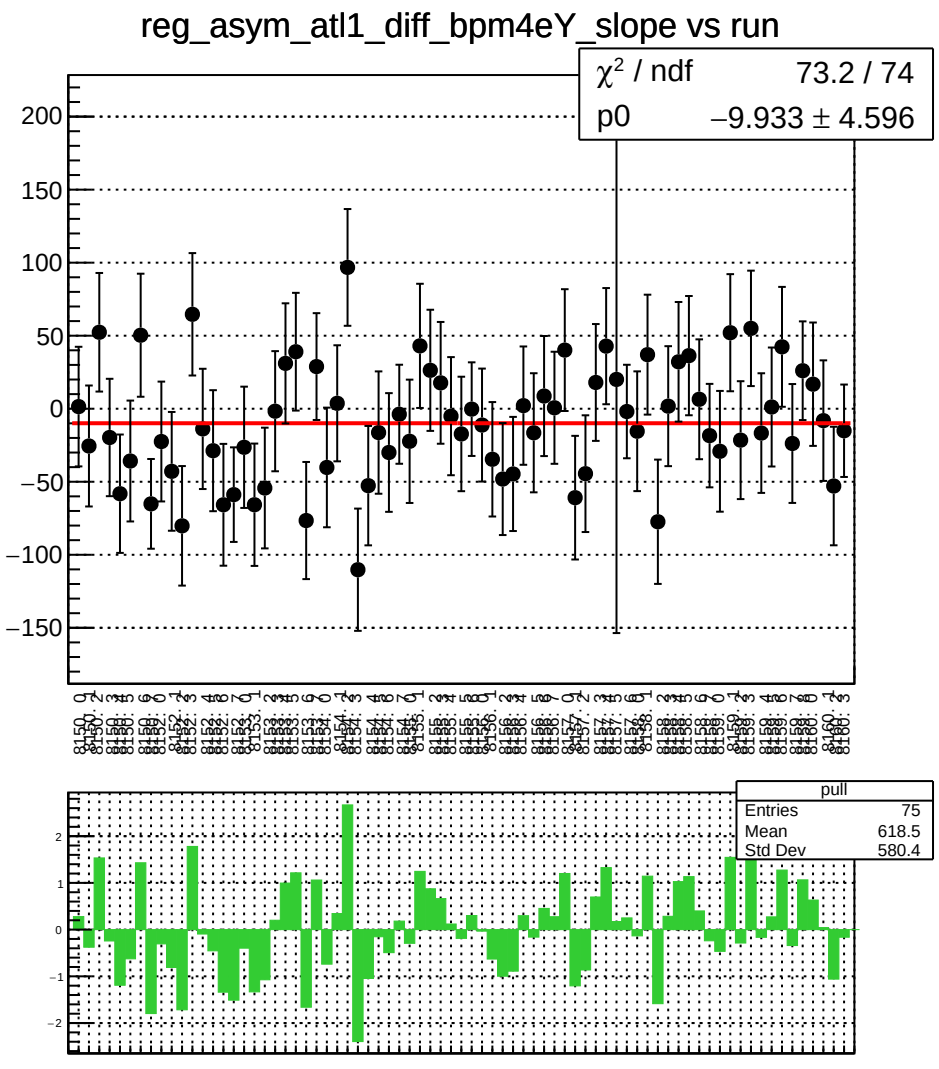

pull1D
Entries 75
Mean −0.0157
Std Dev 0.9906
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

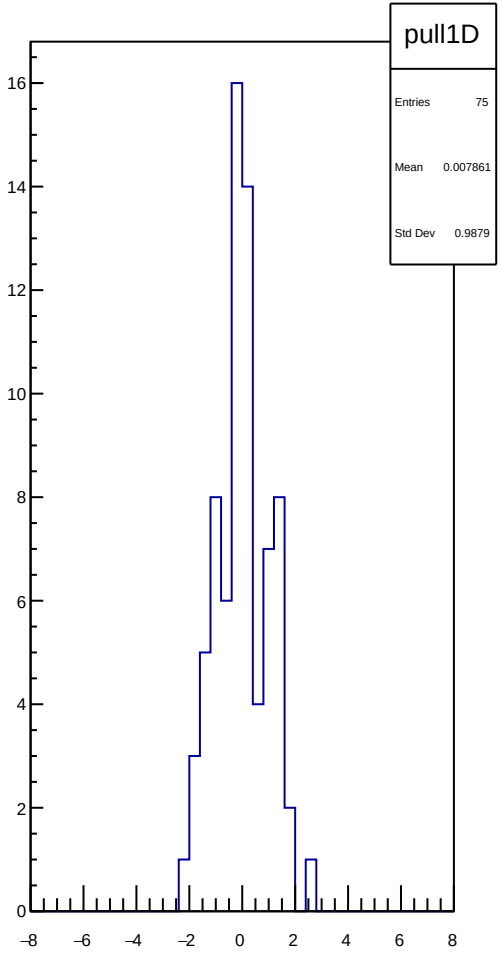

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 74.17 / 74
p0 2.244 ± 4.289
pull
Entries 75
Mean 580.6
Std Dev 541.7

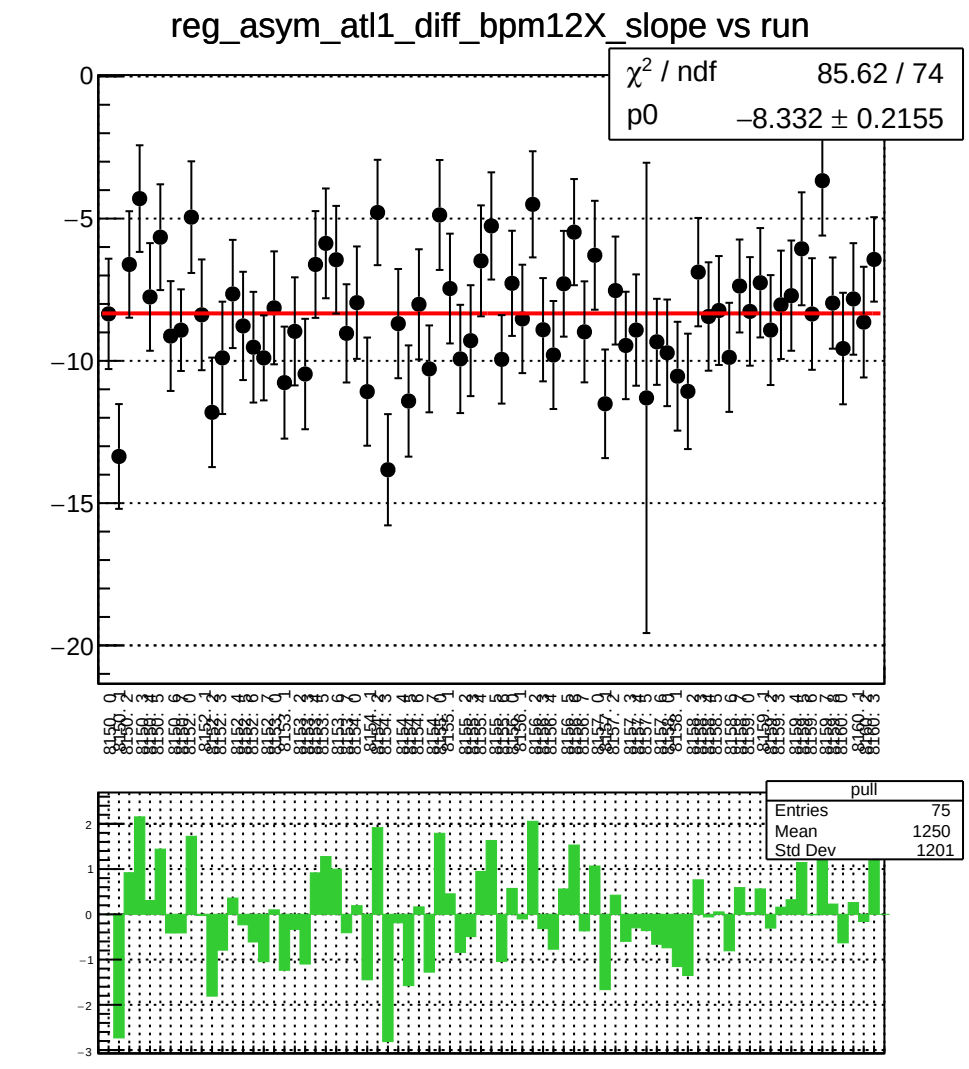

pull1D
Entries 75
Mean −0.008659
Std Dev 0.9944

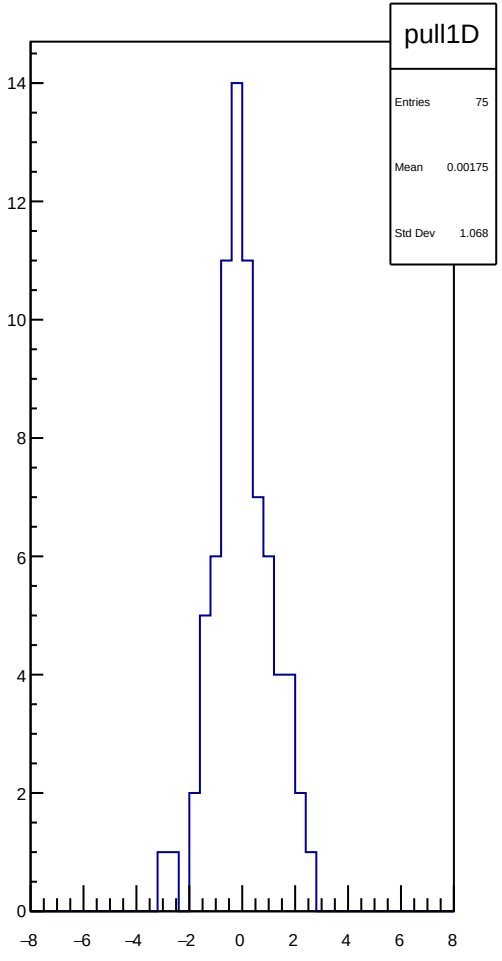

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 73.44 / 74
p0 36.1 ± 2.316
pull
Entries 75
Mean 345.6
Std Dev 306.2

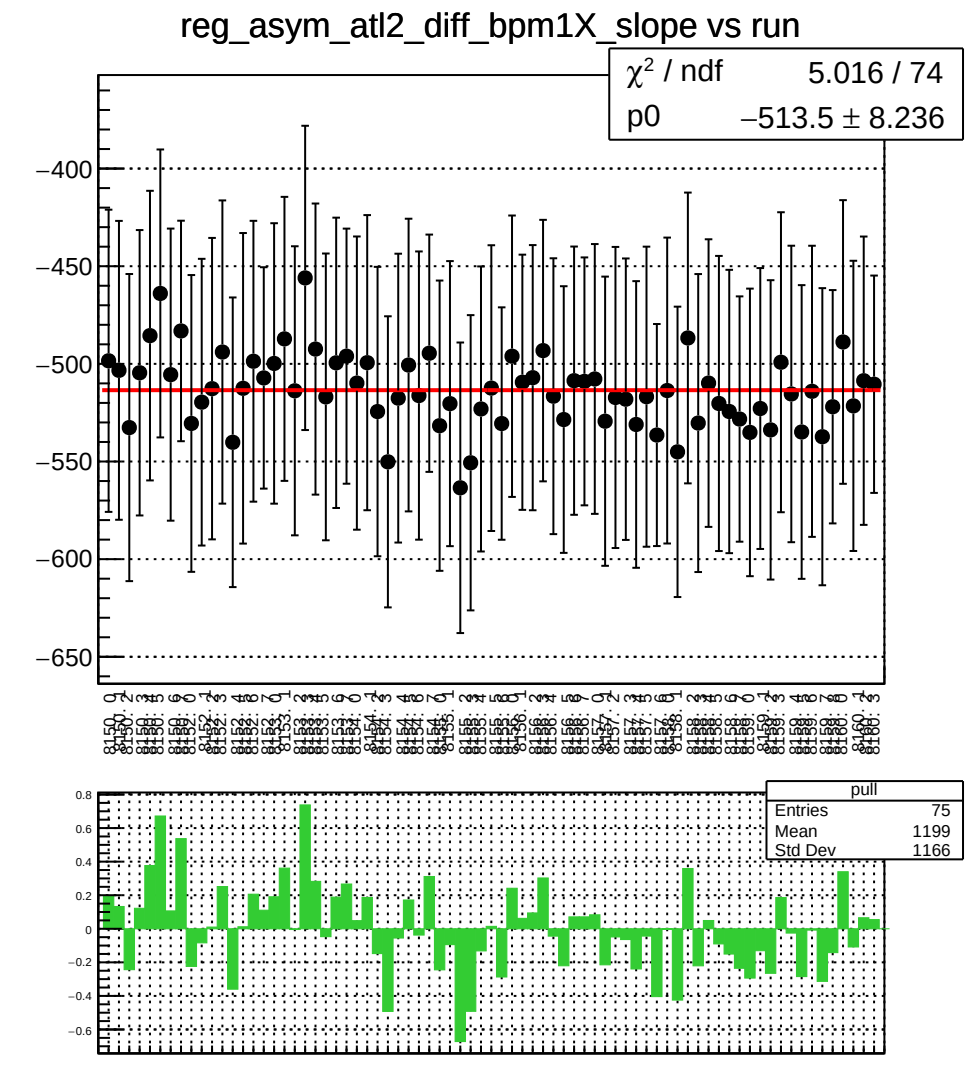

pull1D
Entries 75
Mean 0.01479
Std Dev 0.9894

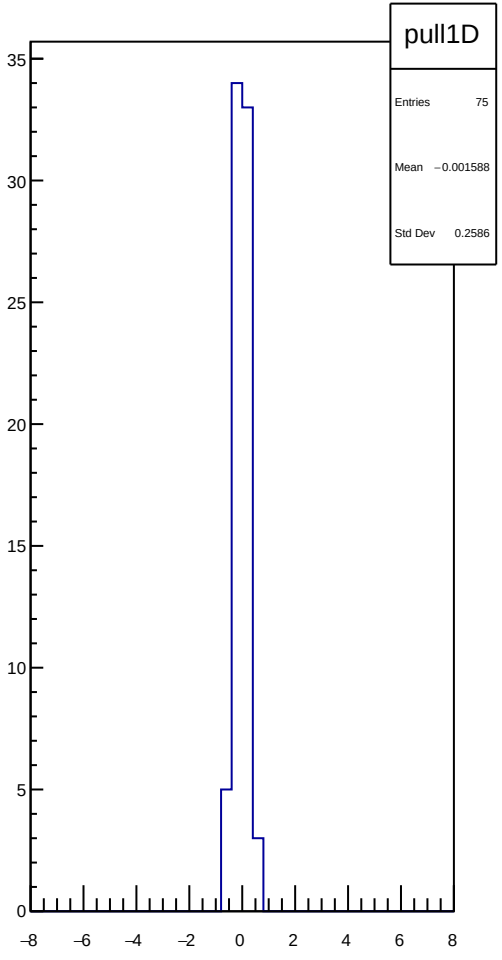

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 73.2 / 74
p0 −9.933 ± 4.596
pull
Entries 75
Mean 618.5
Std Dev 580.4

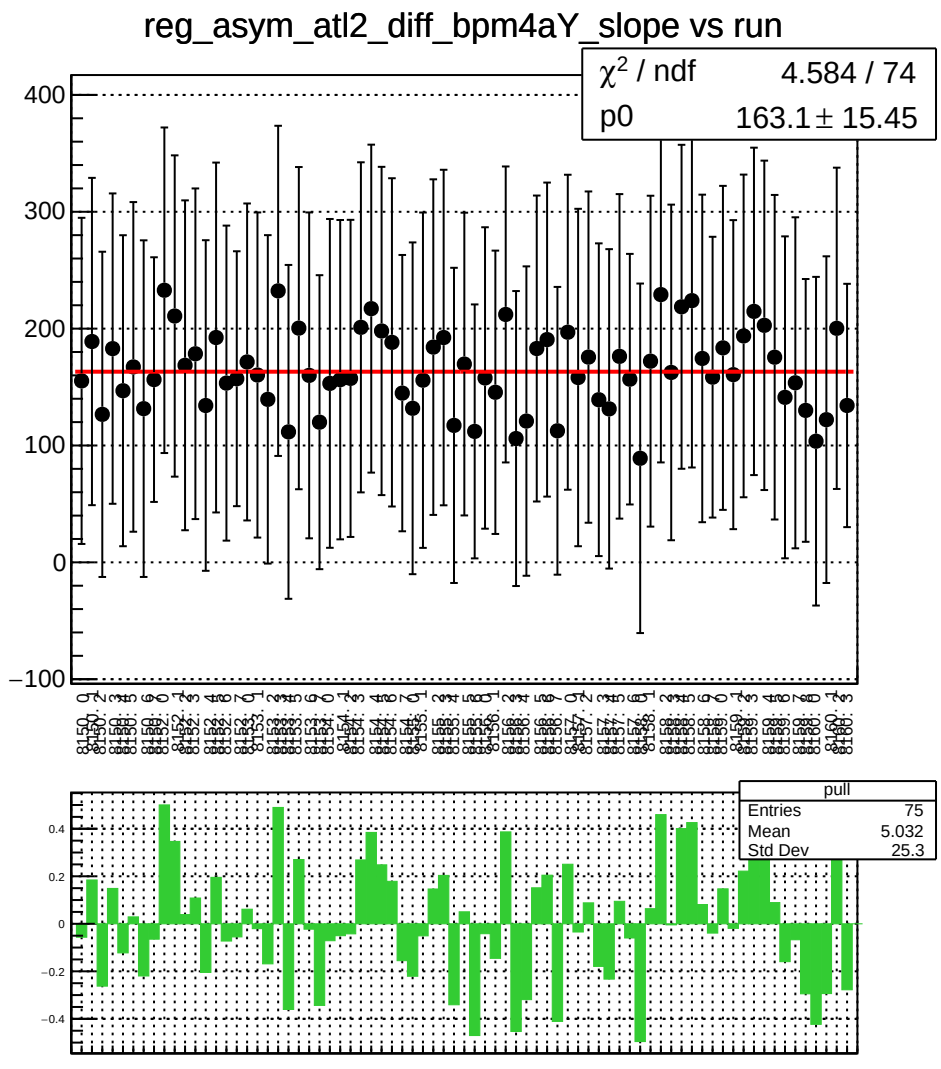

pull1D
Entries 75
Mean 0.007861
Std Dev 0.9879

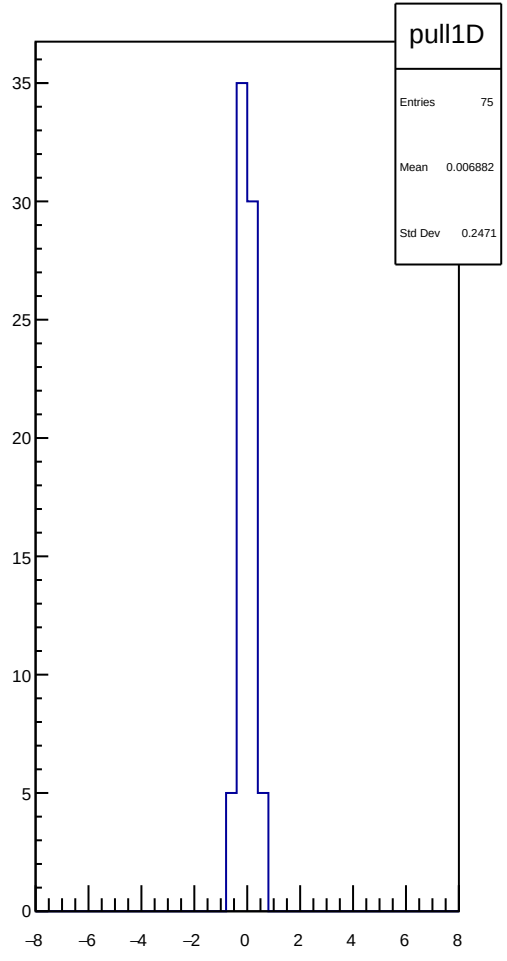

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 85.62 / 74
p0 −8.332 ± 0.2155
pull
Entries 75
Mean 1250
Std Dev 1201

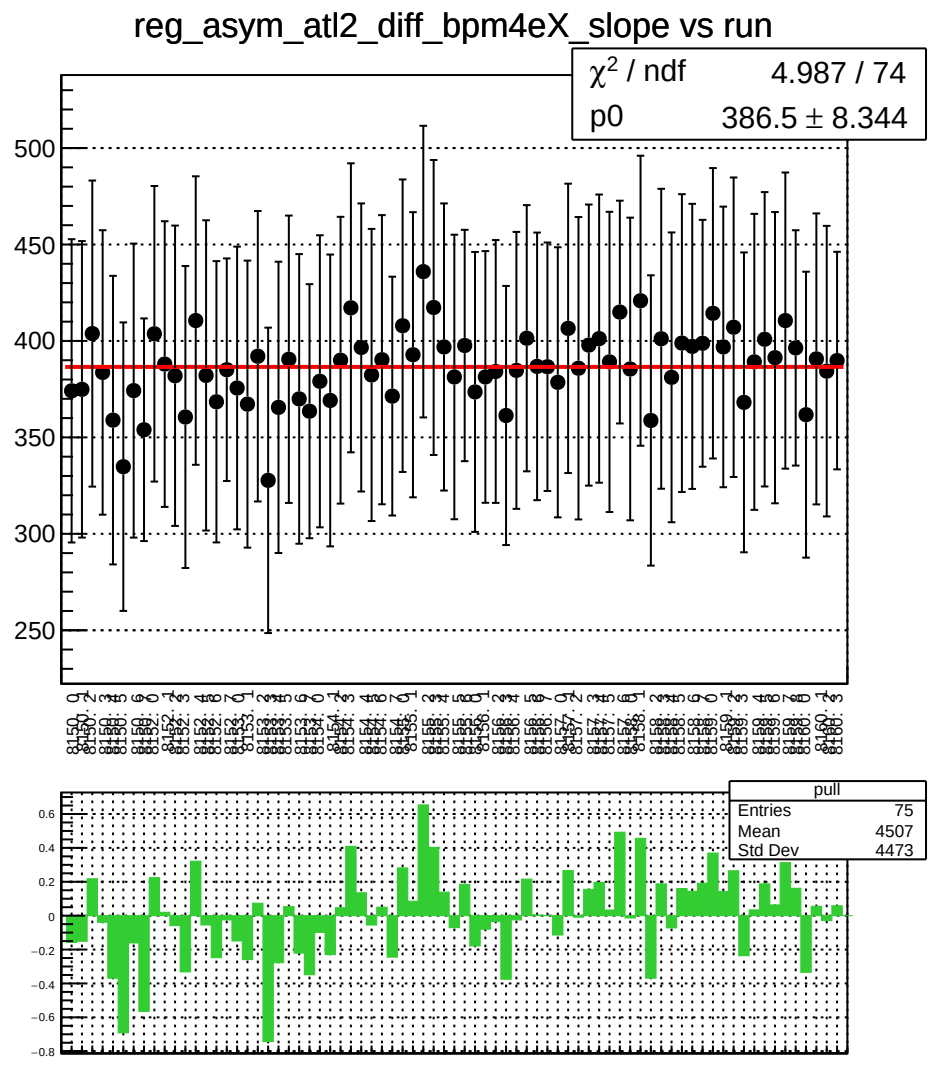

pull1D
Entries 75
Mean 0.00175
Std Dev 1.068

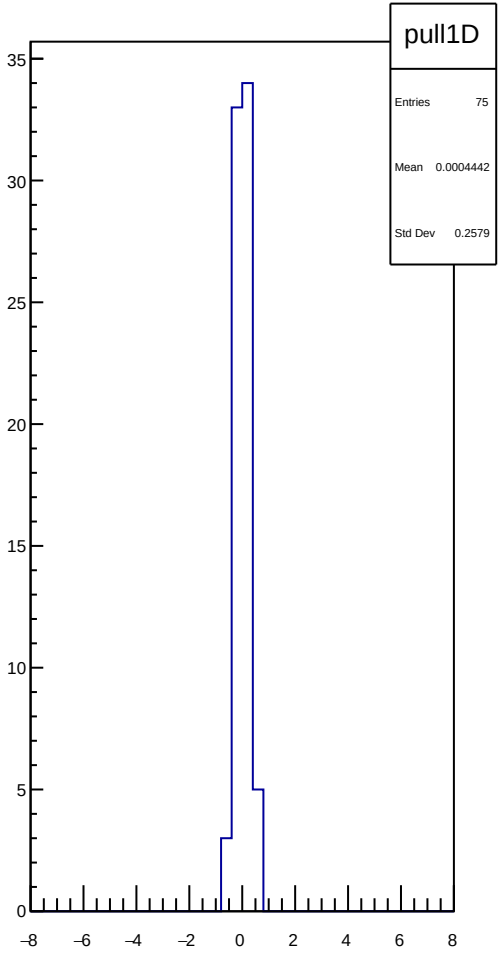

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 5.016 / 74
p0 −513.5 ± 8.236
pull
Entries 75
Mean 1199
Std Dev 1166

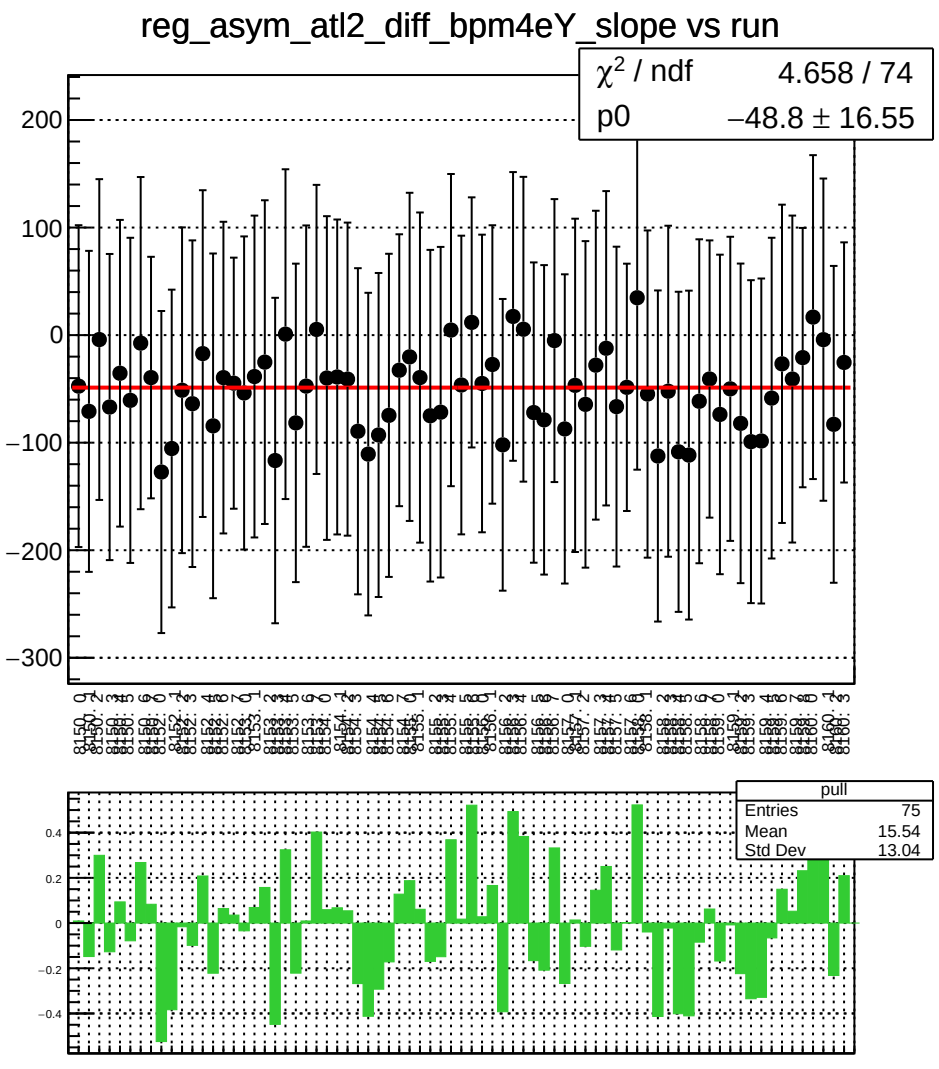

pull1D
Entries 75
Mean −0.001588
Std Dev 0.2586

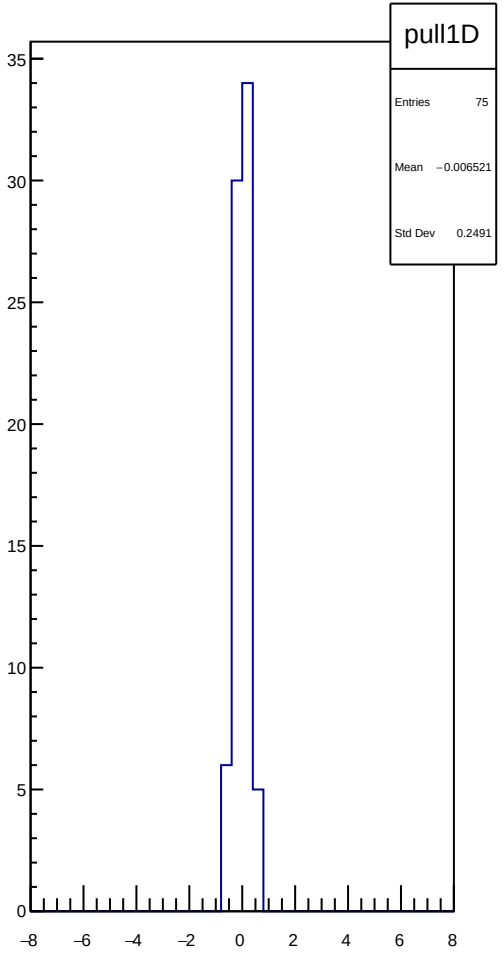

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 4.584 / 74
p0 163.1 ± 15.45
pull
Entries 75
Mean 5.032
Std Dev 25.3

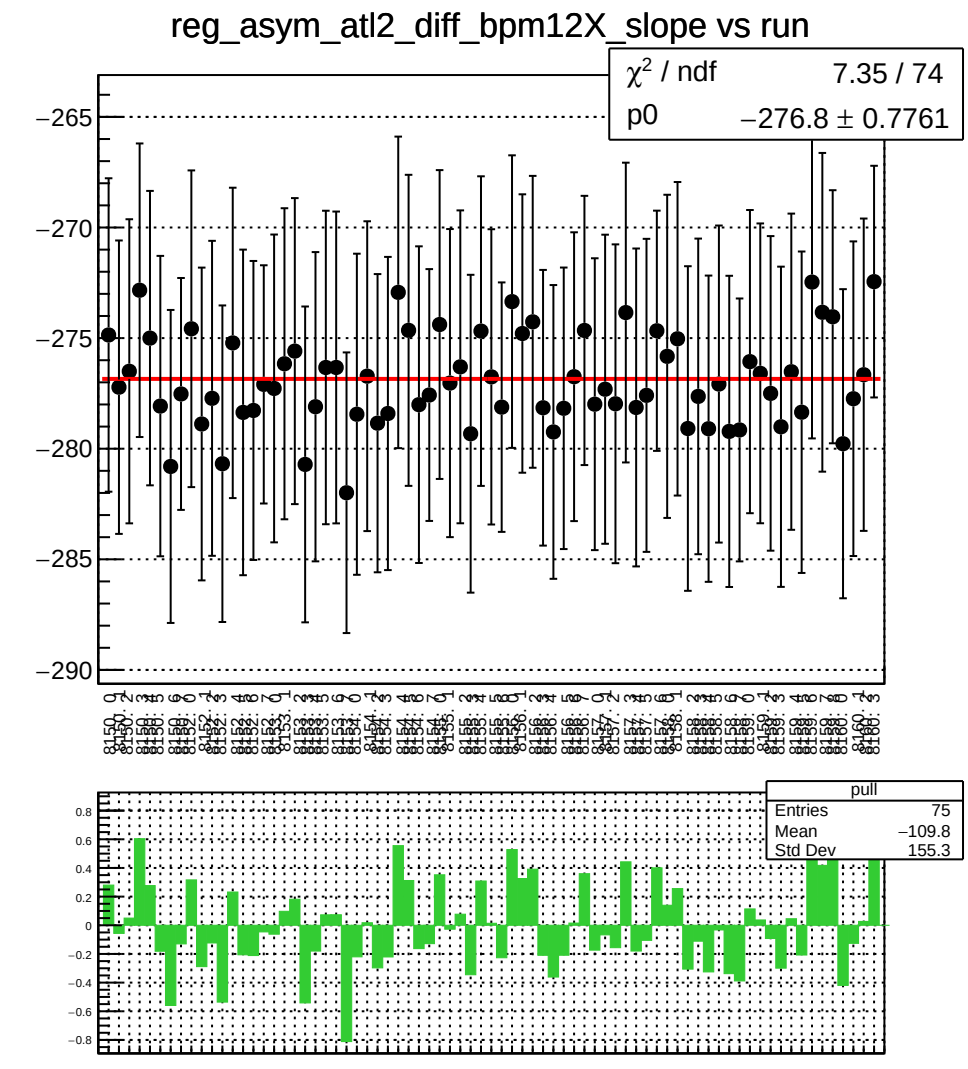

pull1D
Entries 75
Mean 0.006882
Std Dev 0.2471

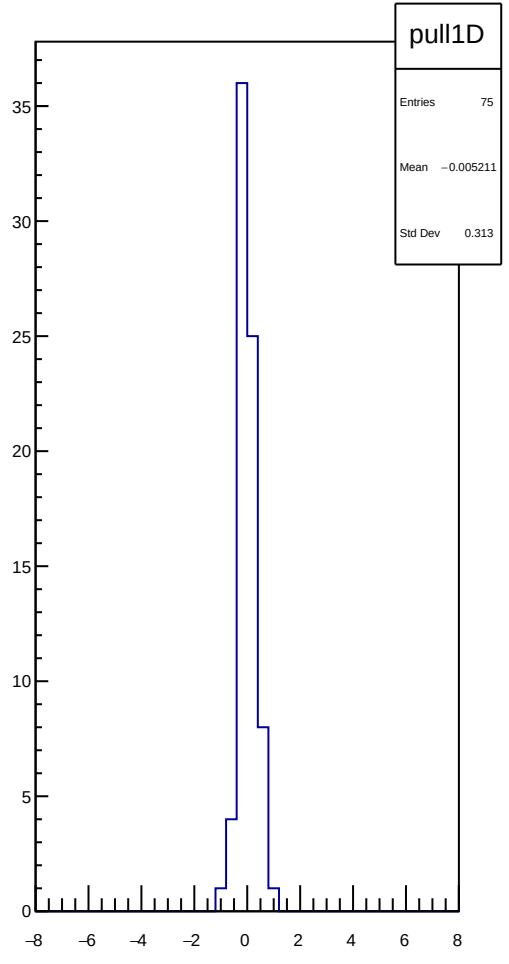

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 4.987 / 74
p0 386.5 ± 8.344
pull
Entries 75
Mean 4507
Std Dev 4473

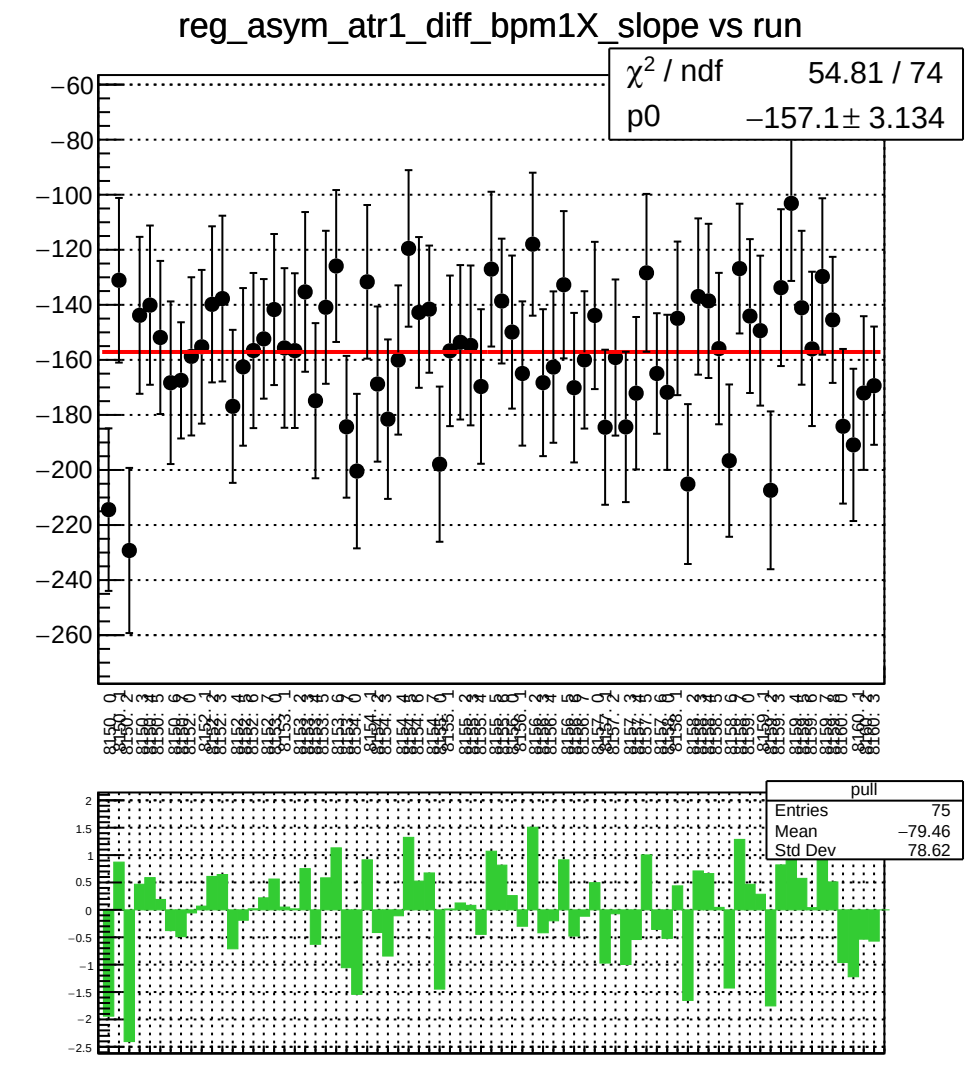

pull1D
Entries 75
Mean 0.0004442
Std Dev 0.2579

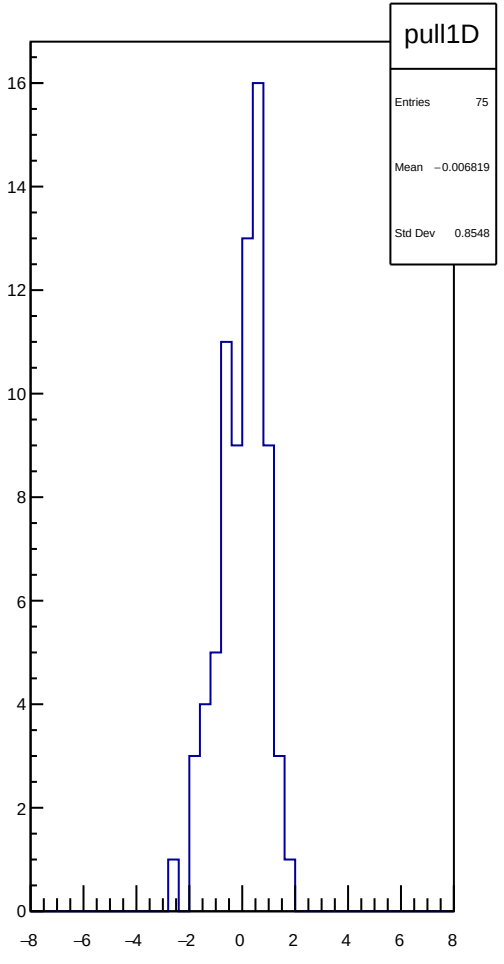

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 4.658 / 74
p0 −48.8 ± 16.55
pull
Entries 75
Mean 15.54
Std Dev 13.04

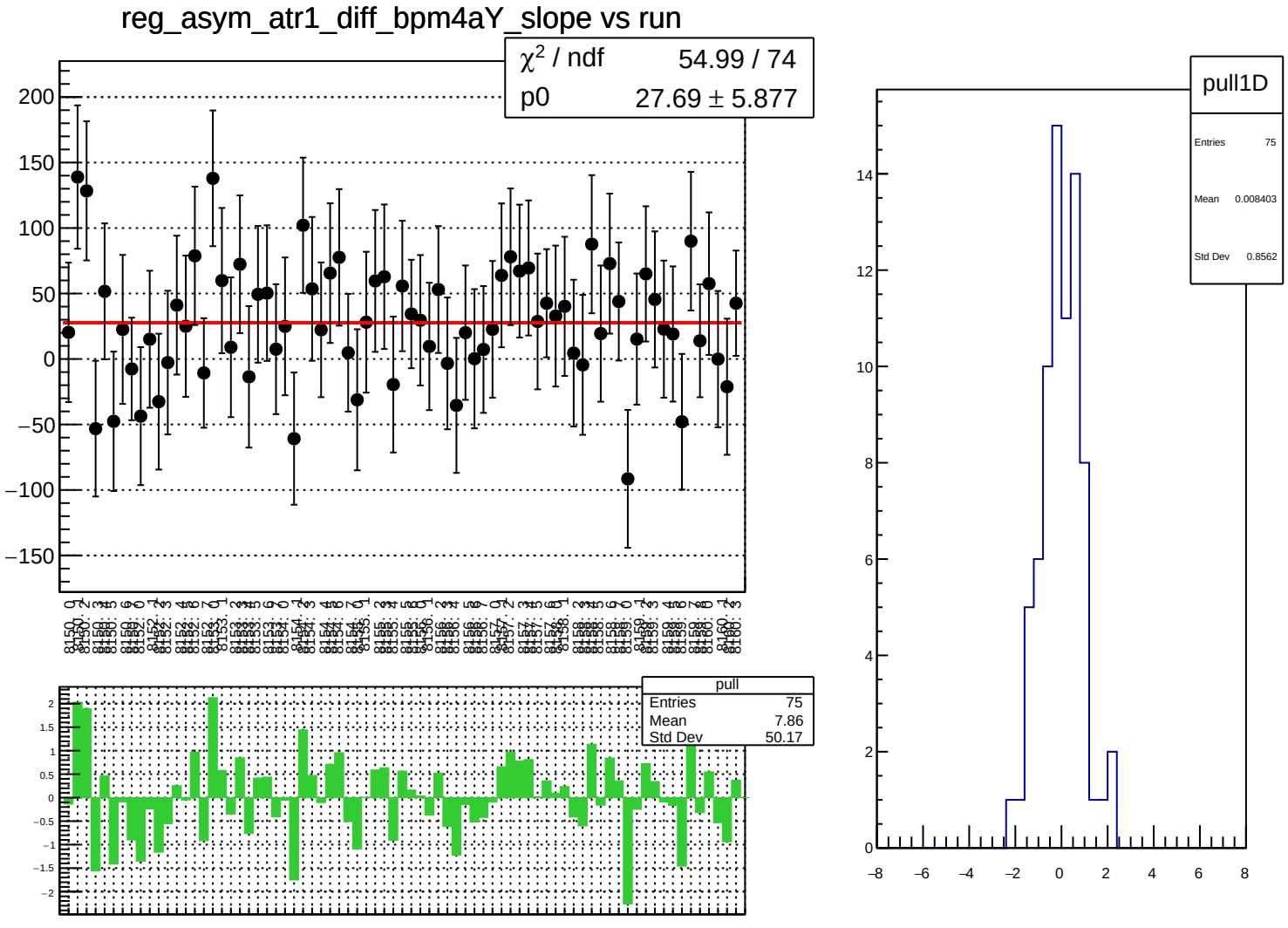

pull1D
Entries 75
Mean −0.006521
Std Dev 0.2491

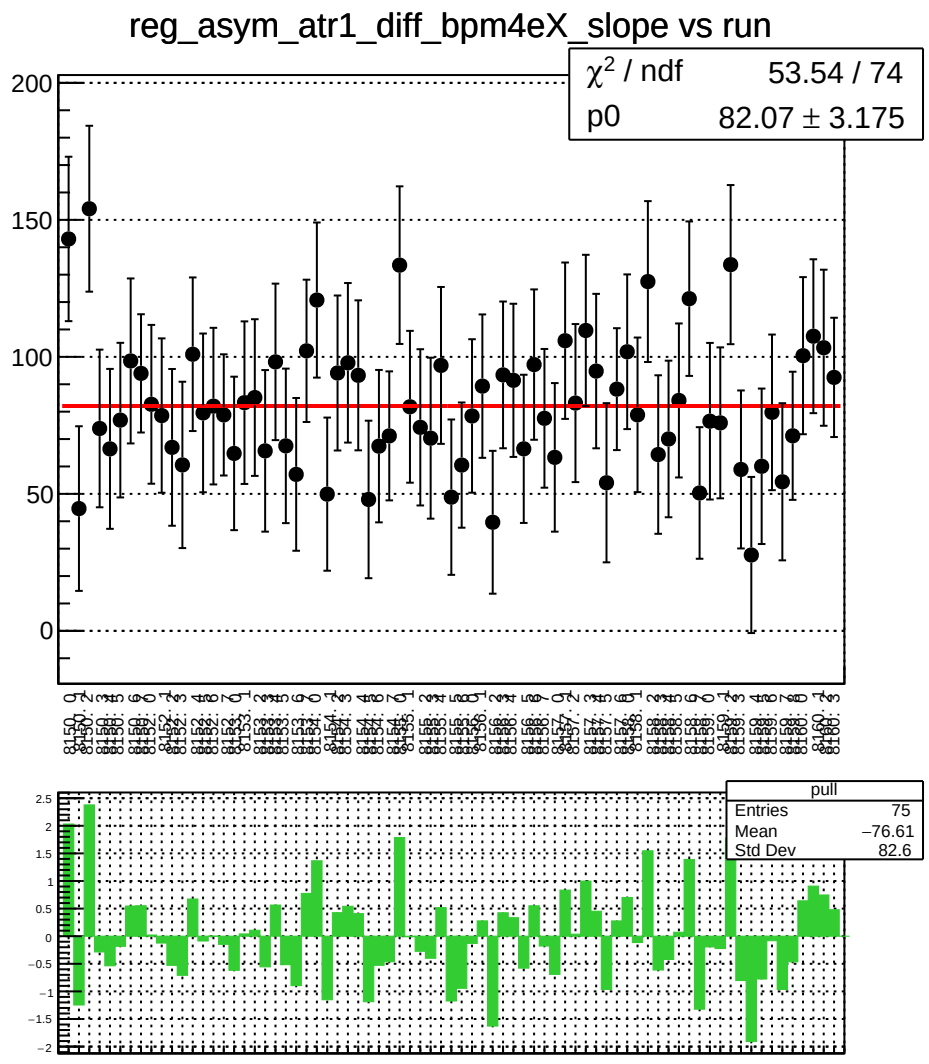

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 7.35 / 74
p0 −276.8 ± 0.7761
−265
−270
−275
−280
−285
−290
pull
Entries 75
Mean −109.8
Std Dev 155.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

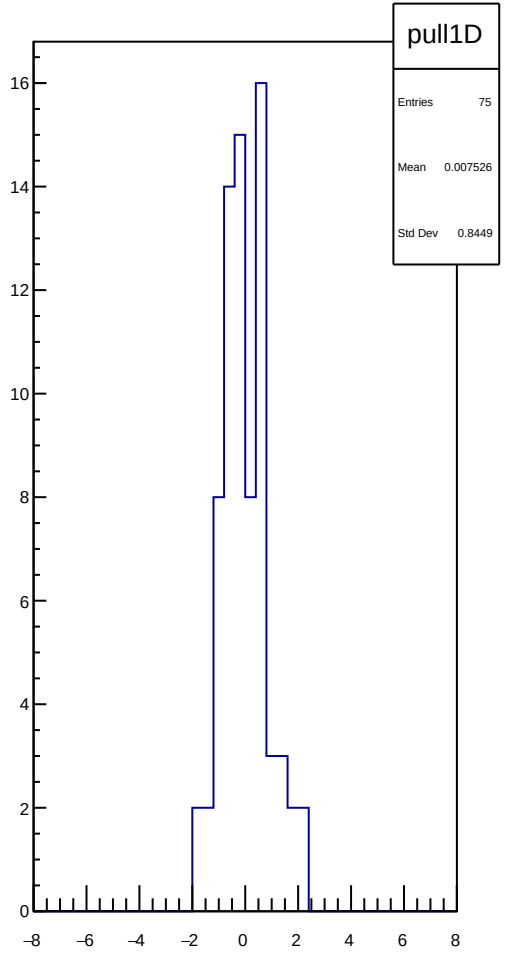

pull1D
Entries 75
Mean −0.005211
Std Dev 0.313
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

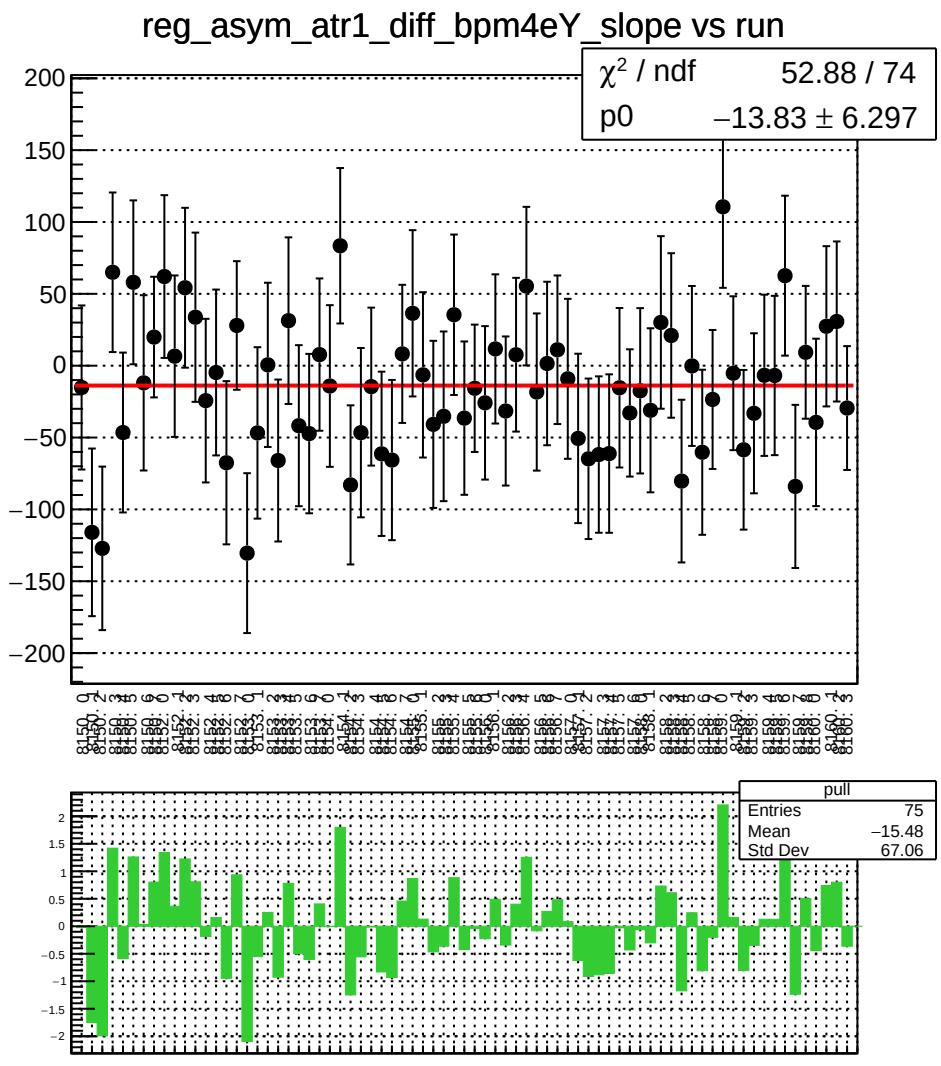

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 54.81 / 74
p0 −157.1± 3.134
pull
Entries 75
Mean −79.46
Std Dev 78.62

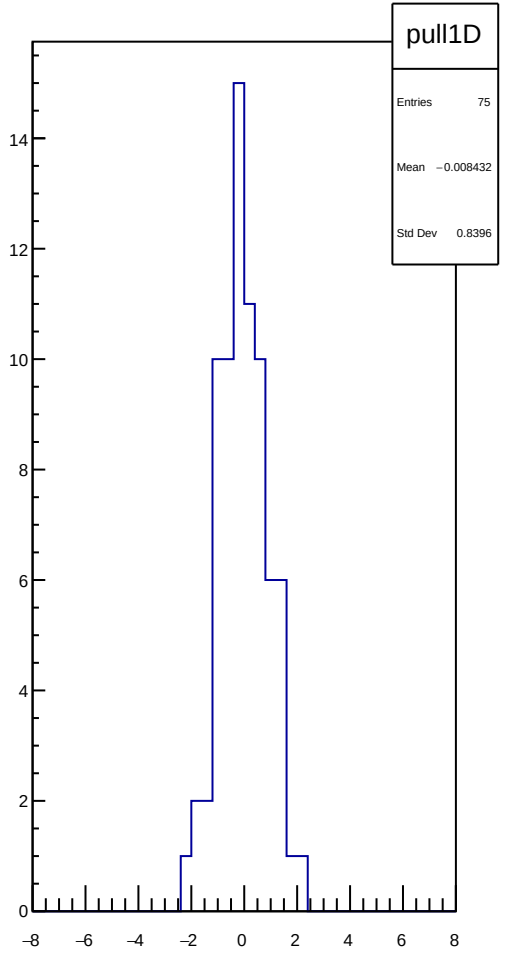

pull1D
Entries 75
Mean −0.006819
Std Dev 0.8548

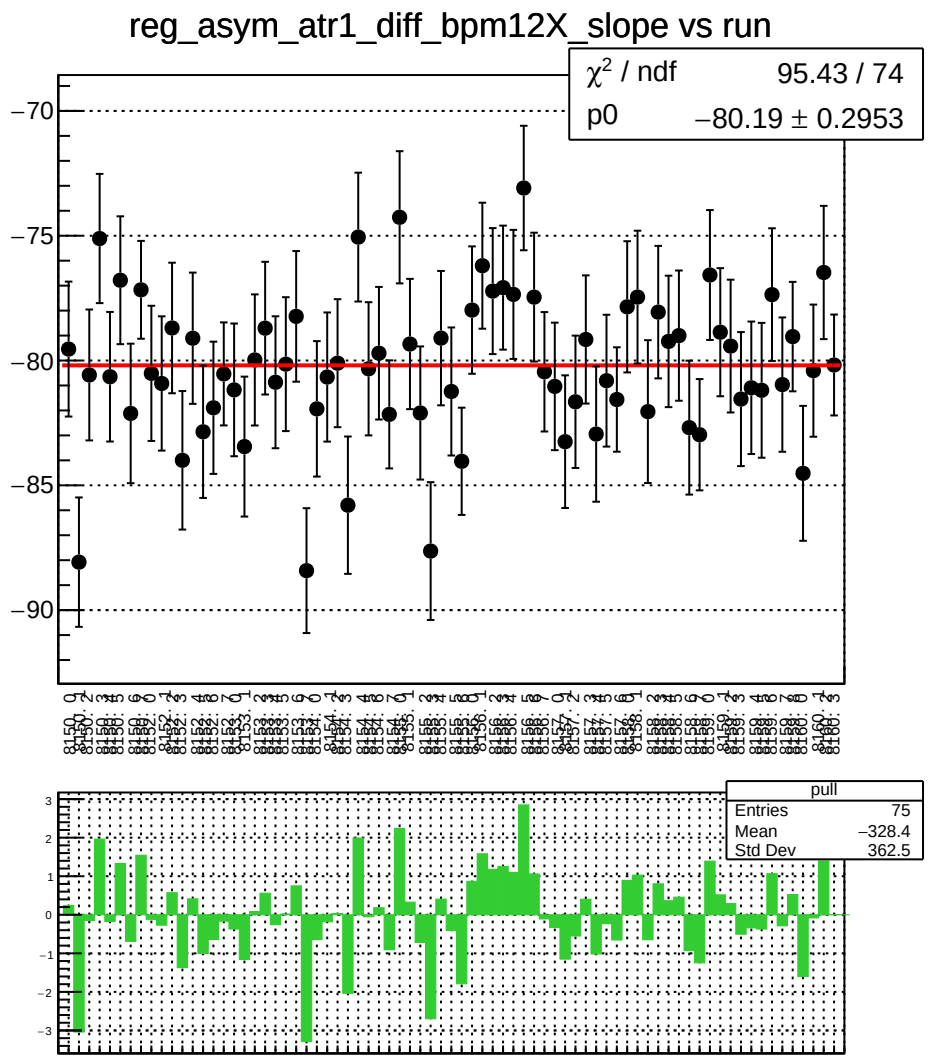

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 54.99 / 74
p0 27.69 ± 5.877
pull
Entries 75
Mean 7.86
Std Dev 50.17
pull1D
Entries 75
Mean 0.008403
Std Dev 0.8562

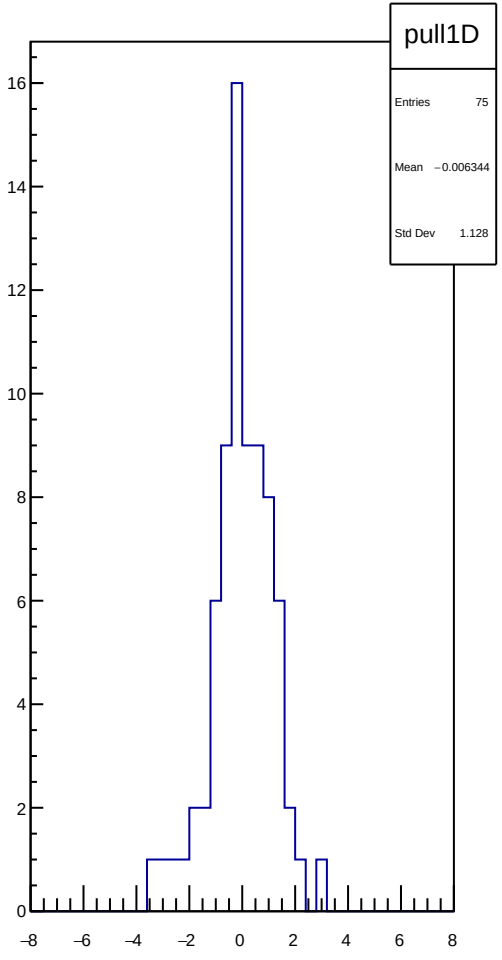

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 53.54 / 74
p0 82.07 ± 3.175
200
150
100
50
0
pull
Entries 75
Mean −76.61
Std Dev 82.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

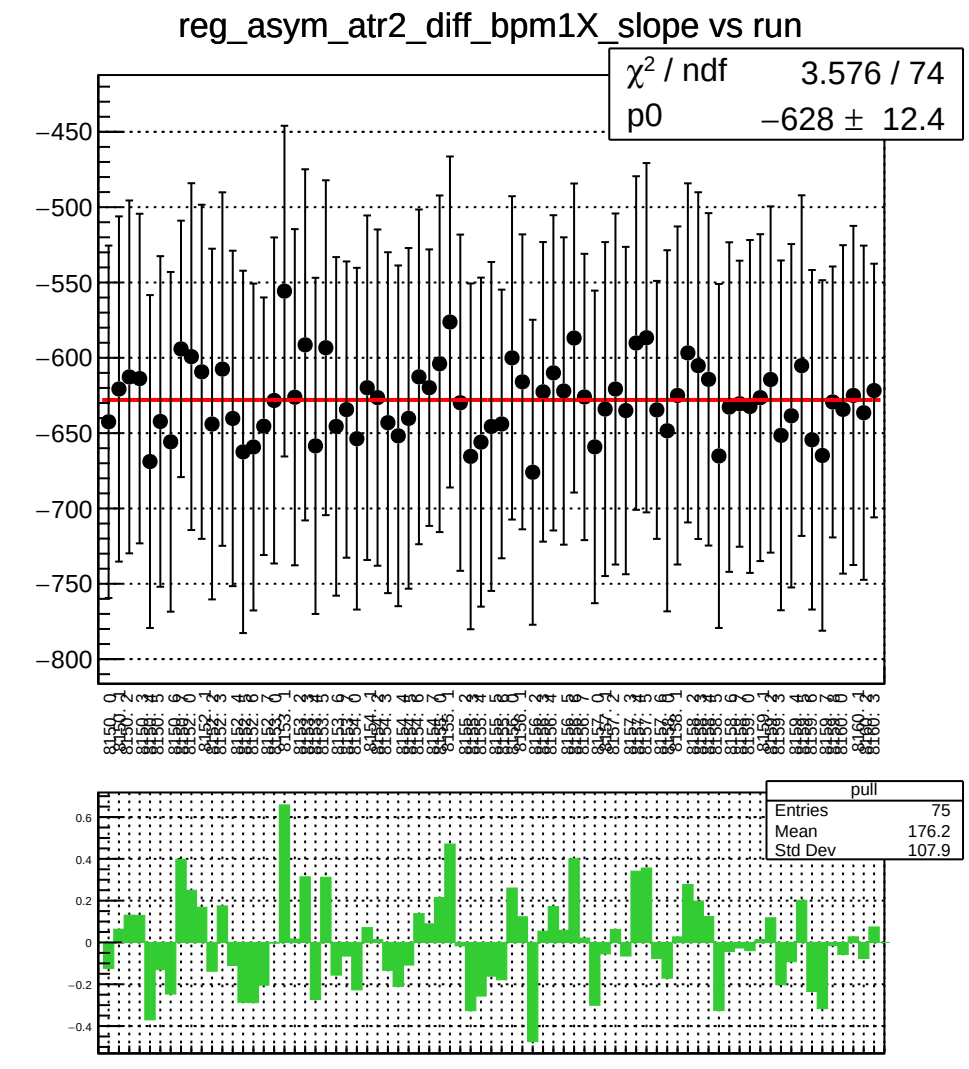

pull1D
Entries 75
Mean 0.007526
Std Dev 0.8449
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

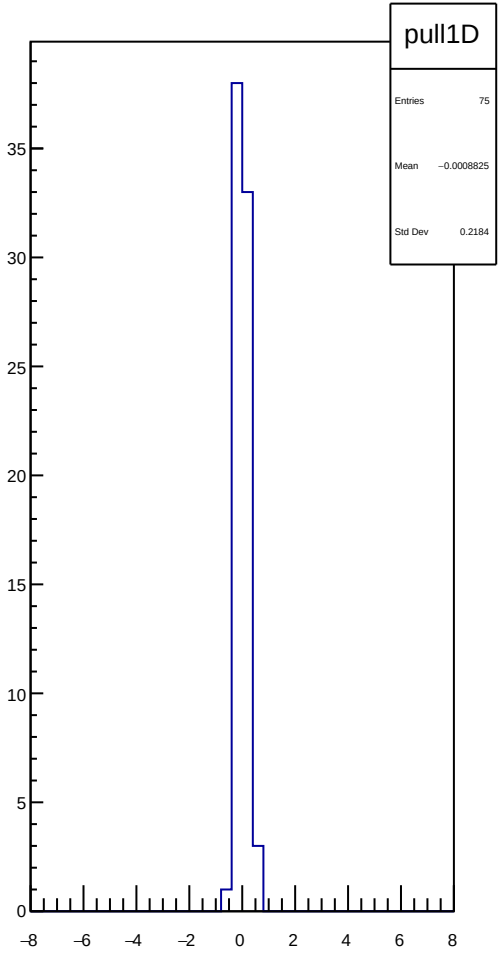

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 52.88 / 74
p0 −13.83 ± 6.297
pull
Entries 75
Mean −15.48
Std Dev 67.06

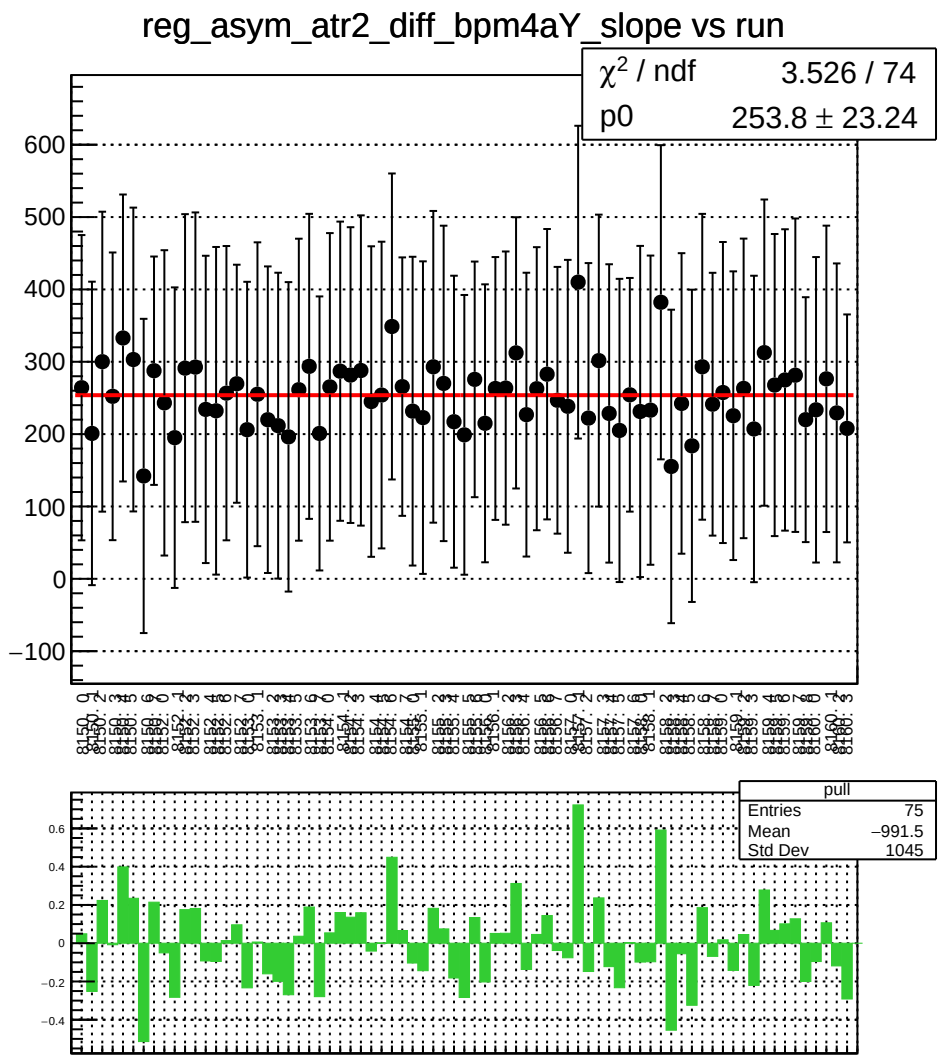

pull1D
Entries 75
Mean −0.008432
Std Dev 0.8396

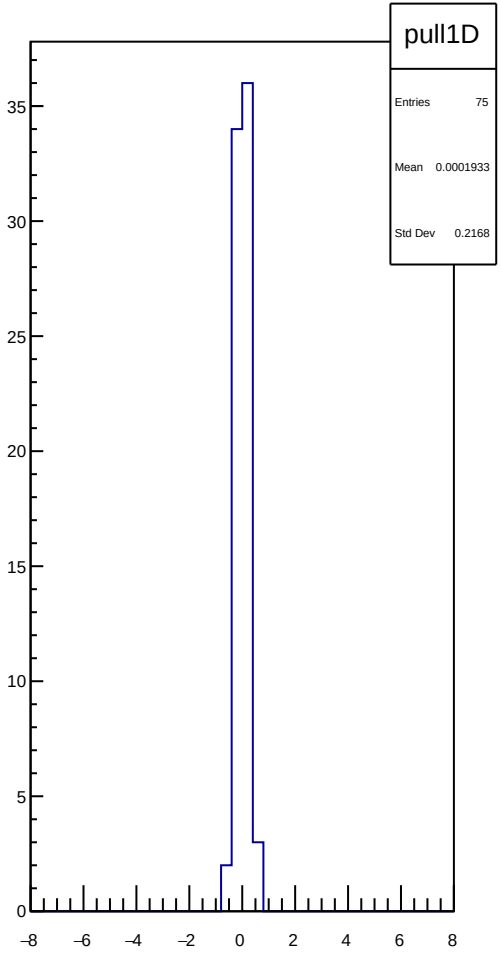

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 95.43 / 74
p0 −80.19 ± 0.2953
pull
Entries 75
Mean −328.4
Std Dev 362.5

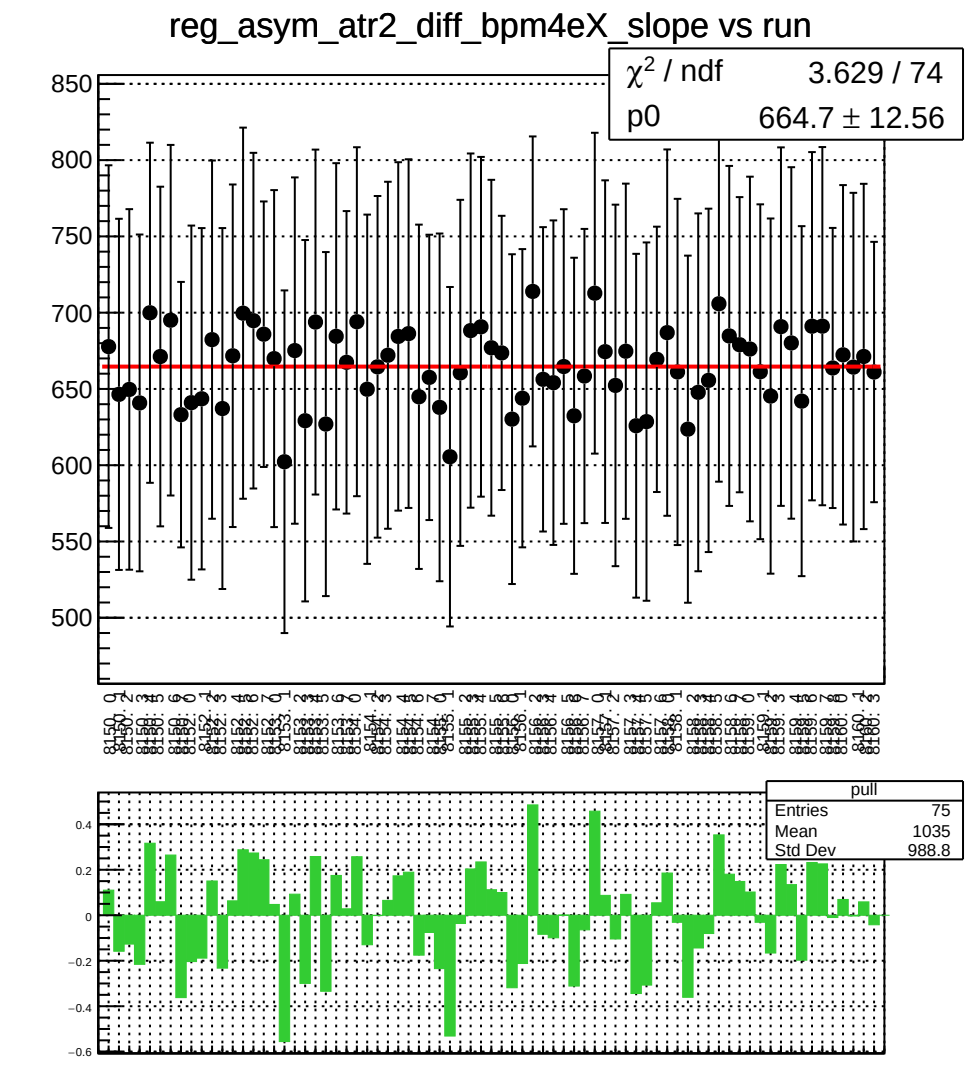

pull1D
Entries 75
Mean −0.006344
Std Dev 1.128

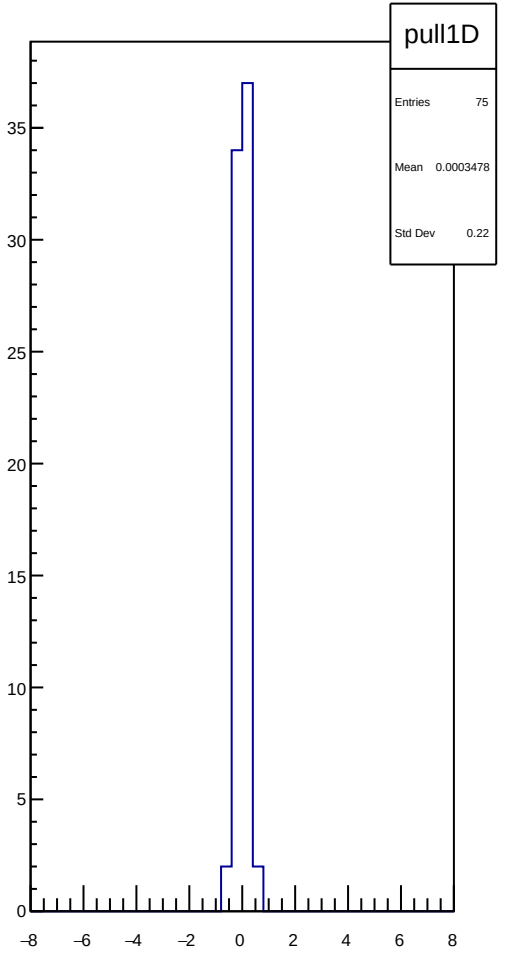

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 3.576 / 74
p0 −628 ± 12.4
pull
Entries 75
Mean 176.2
Std Dev 107.9

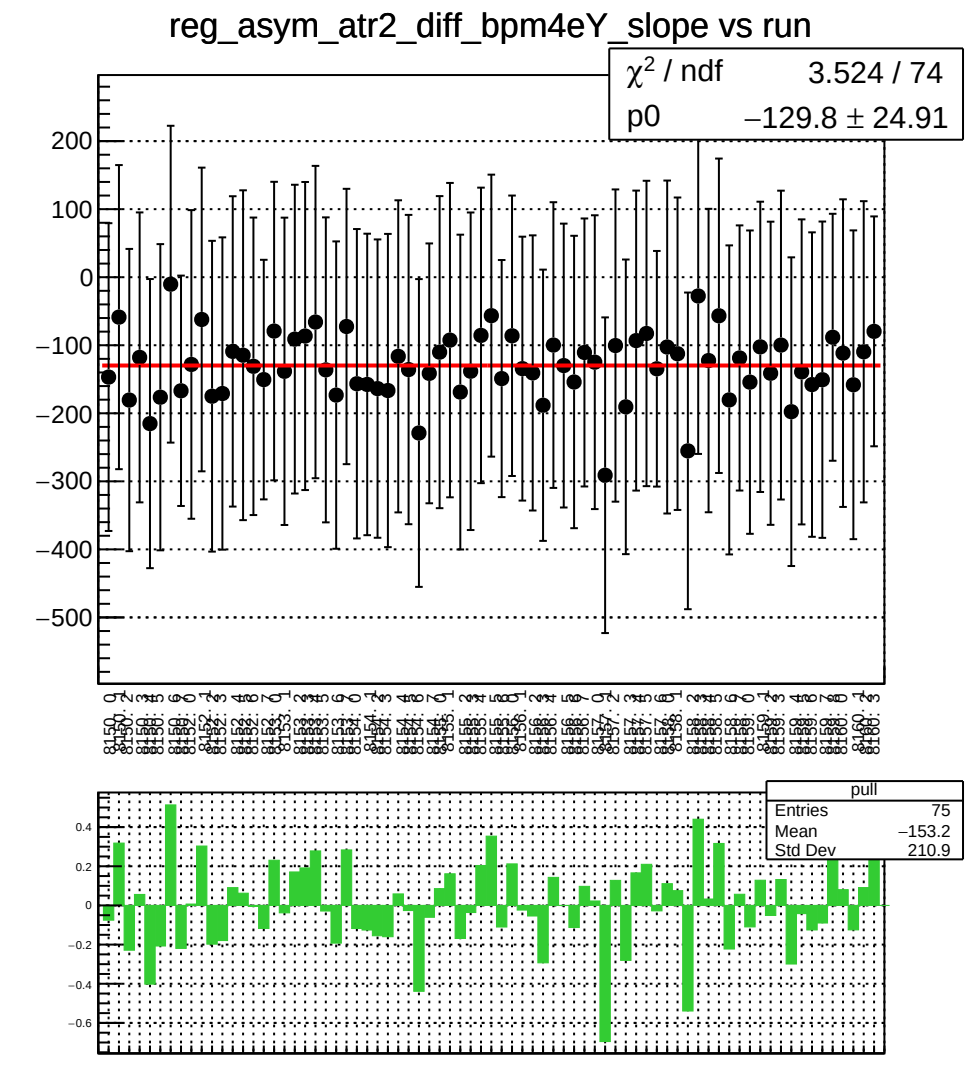

pull1D
Entries 75
Mean −0.0008825
Std Dev 0.2184

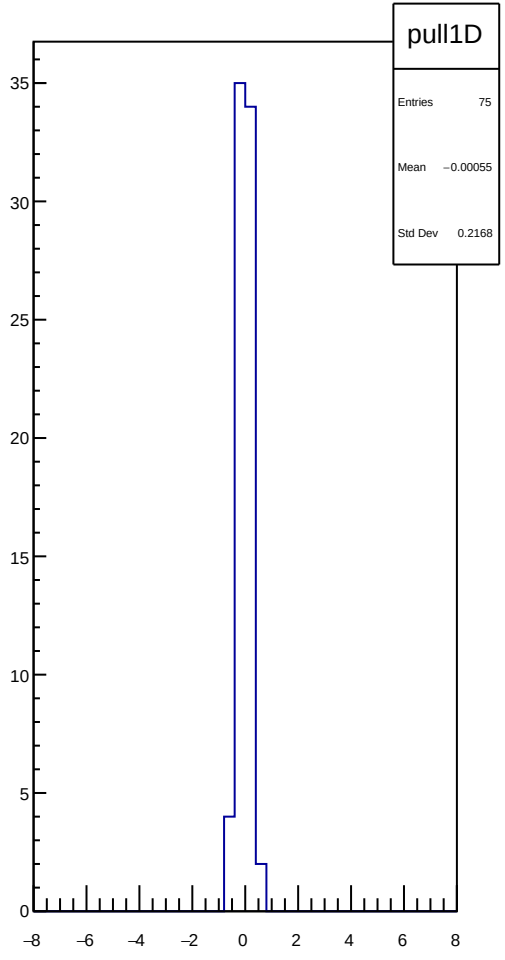

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.526 / 74
p0 253.8 ± 23.24
pull
Entries 75
Mean −991.5
Std Dev 1045

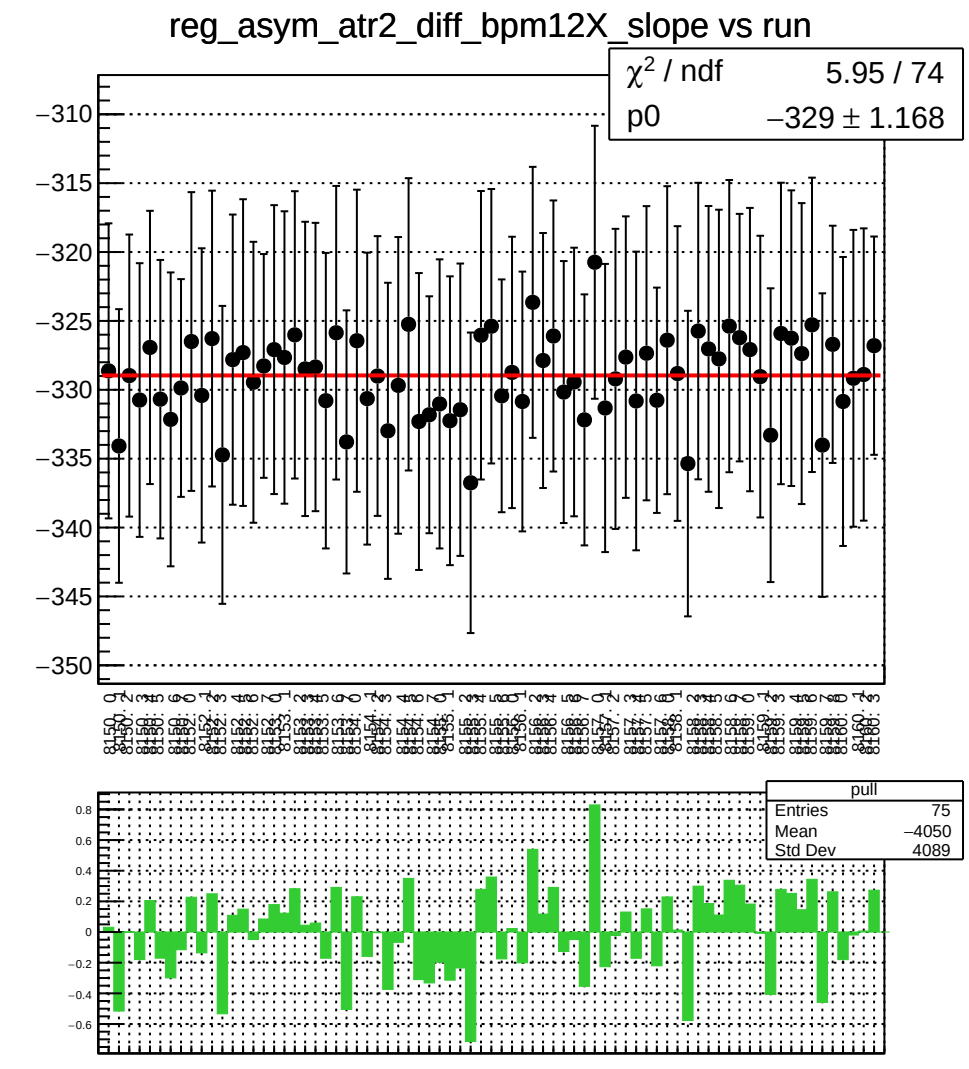

pull1D
Entries 75
Mean 0.0001933
Std Dev 0.2168

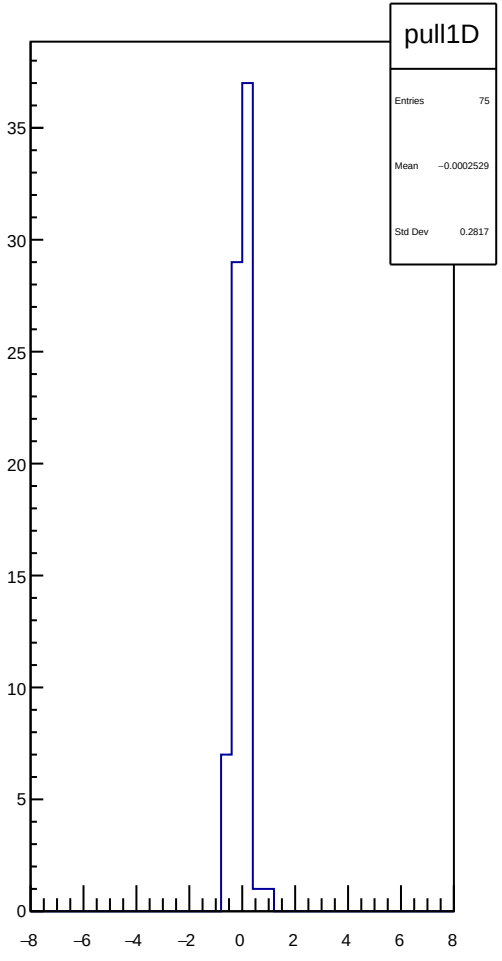

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 3.629 / 74
p0 664.7 ± 12.56
pull
Entries 75
Mean 1035
Std Dev 988.8

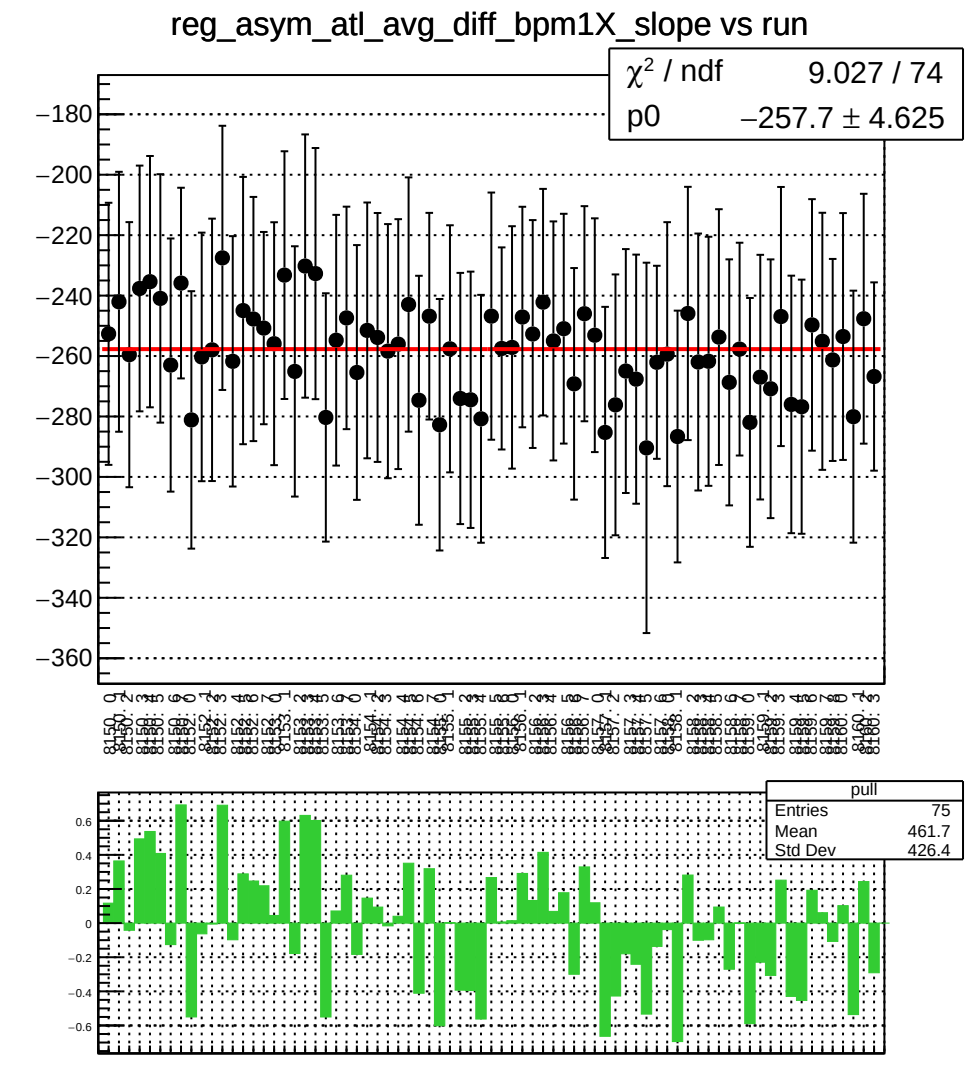

pull1D
Entries 75
Mean 0.0003478
Std Dev 0.22

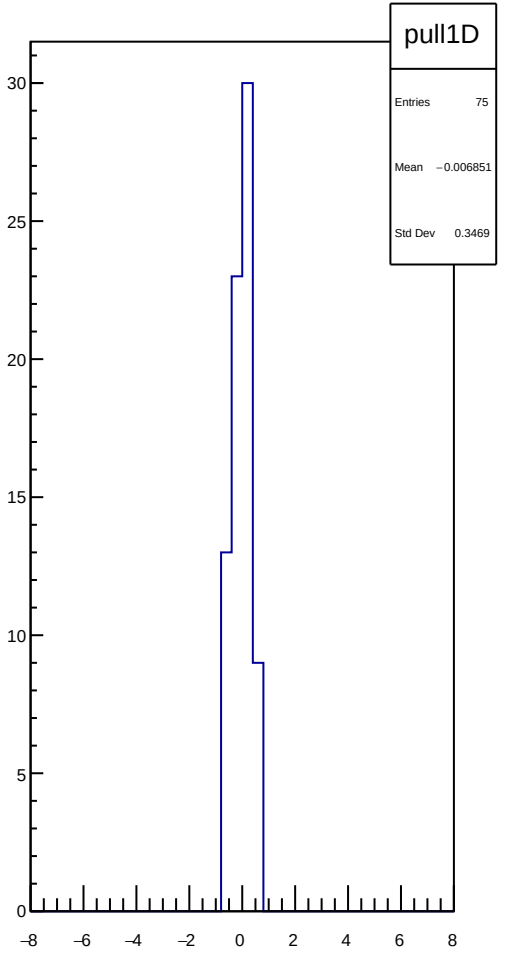

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.524 / 74
p0 −129.8 ± 24.91
pull
Entries 75
Mean −153.2
Std Dev 210.9

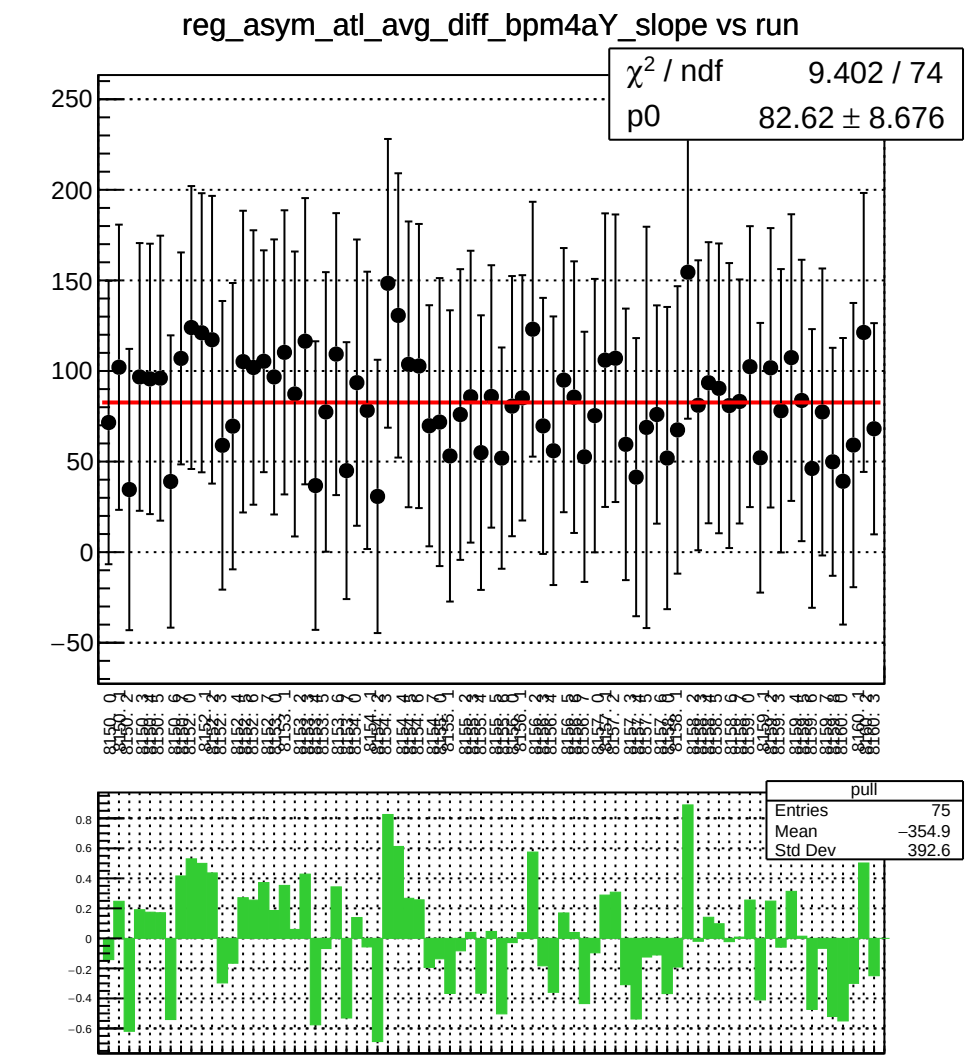

pull1D
Entries 75
Mean −0.00055
Std Dev 0.2168

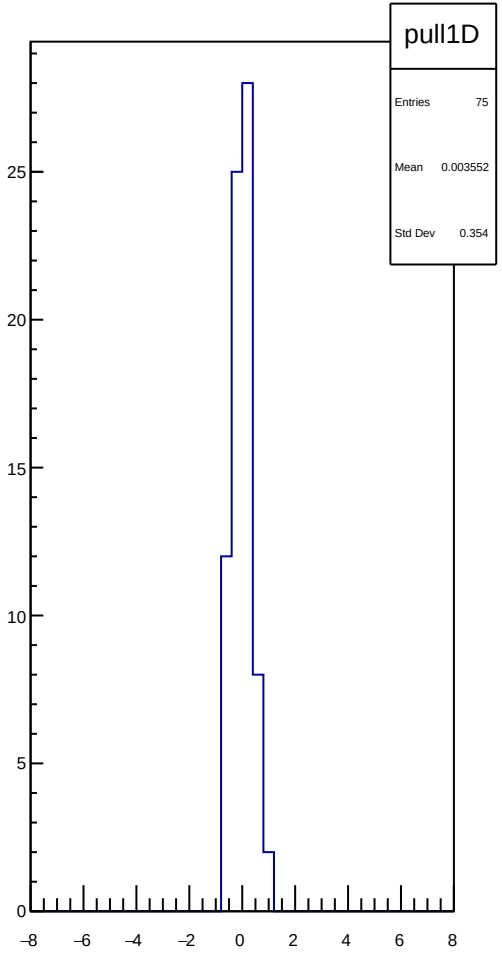

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 5.95 / 74
p0 −329 ± 1.168
pull
Entries 75
Mean −4050
Std Dev 4089

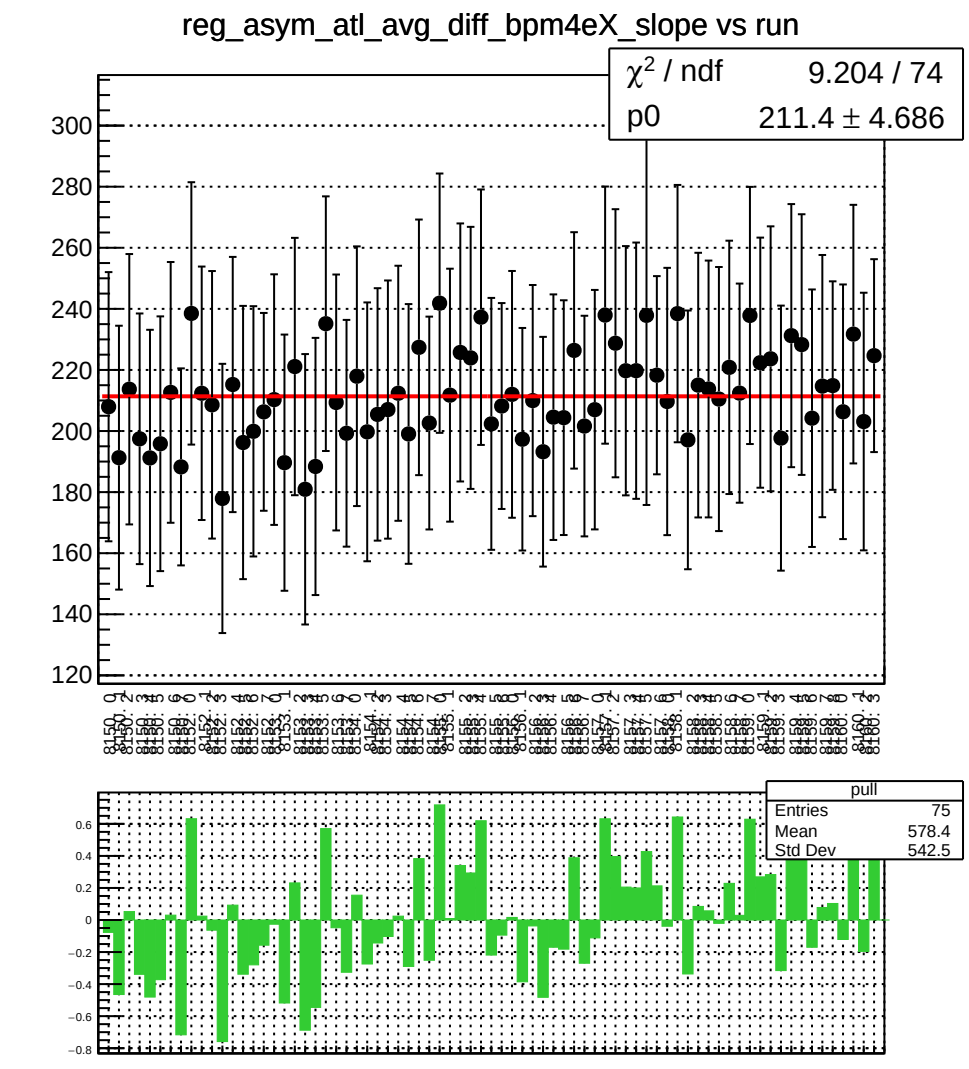

pull1D
Entries 75
Mean −0.0002529
Std Dev 0.2817

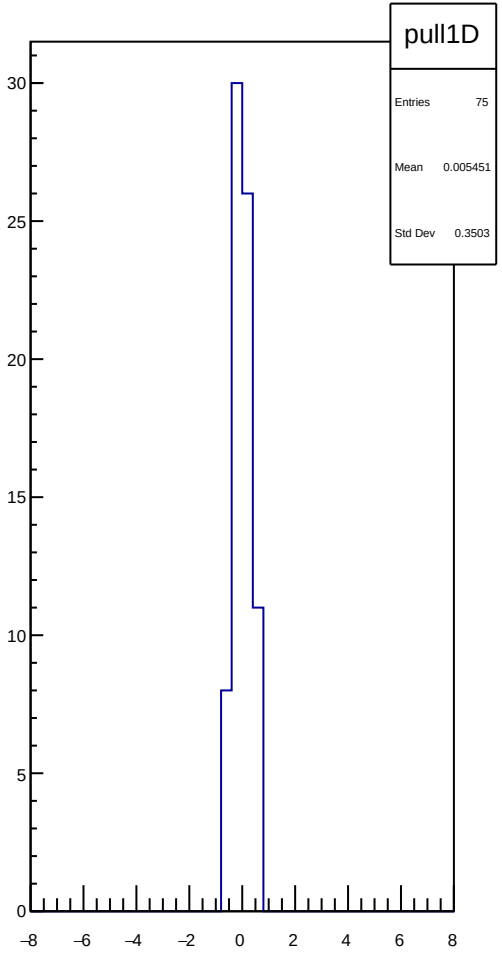

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 9.027 / 74
p0 −257.7 ± 4.625
pull
Entries 75
Mean 461.7
Std Dev 426.4

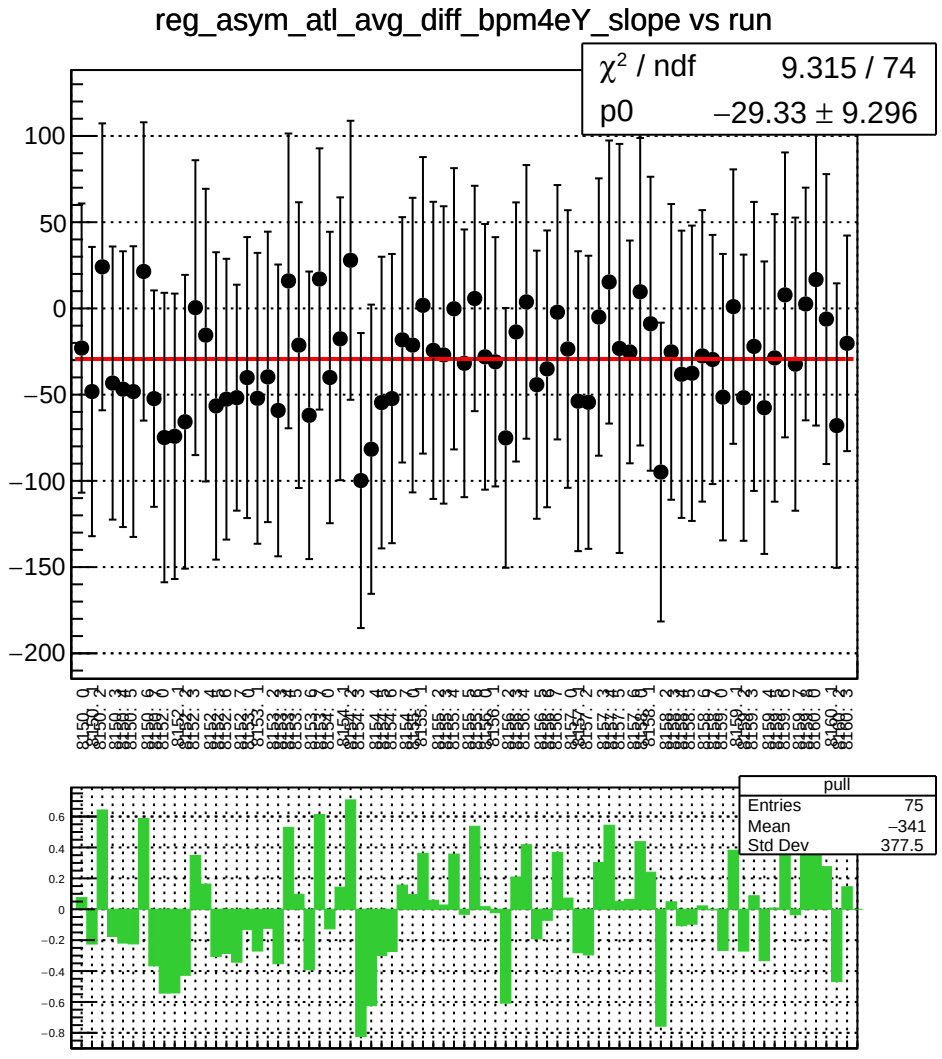

pull1D
Entries 75
Mean −0.006851
Std Dev 0.3469

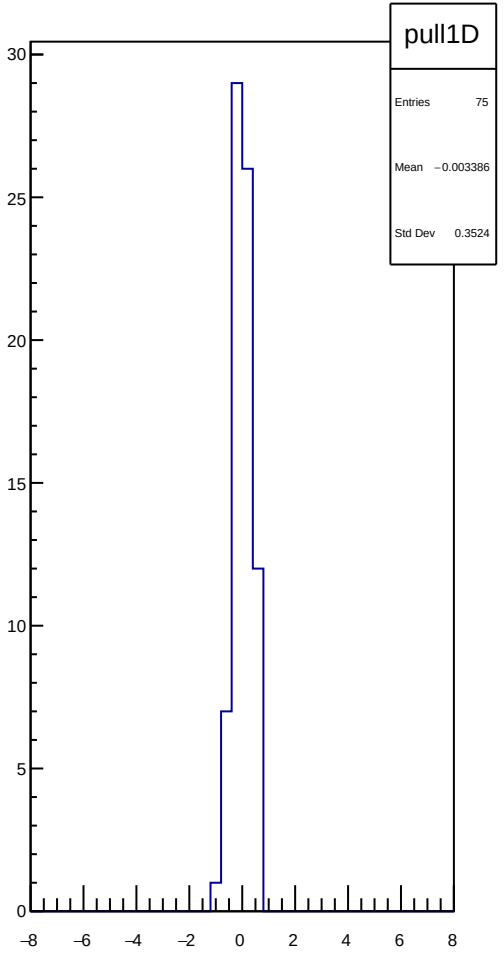

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.402 / 74
p0 82.62 ± 8.676
pull
Entries 75
Mean −354.9
Std Dev 392.6

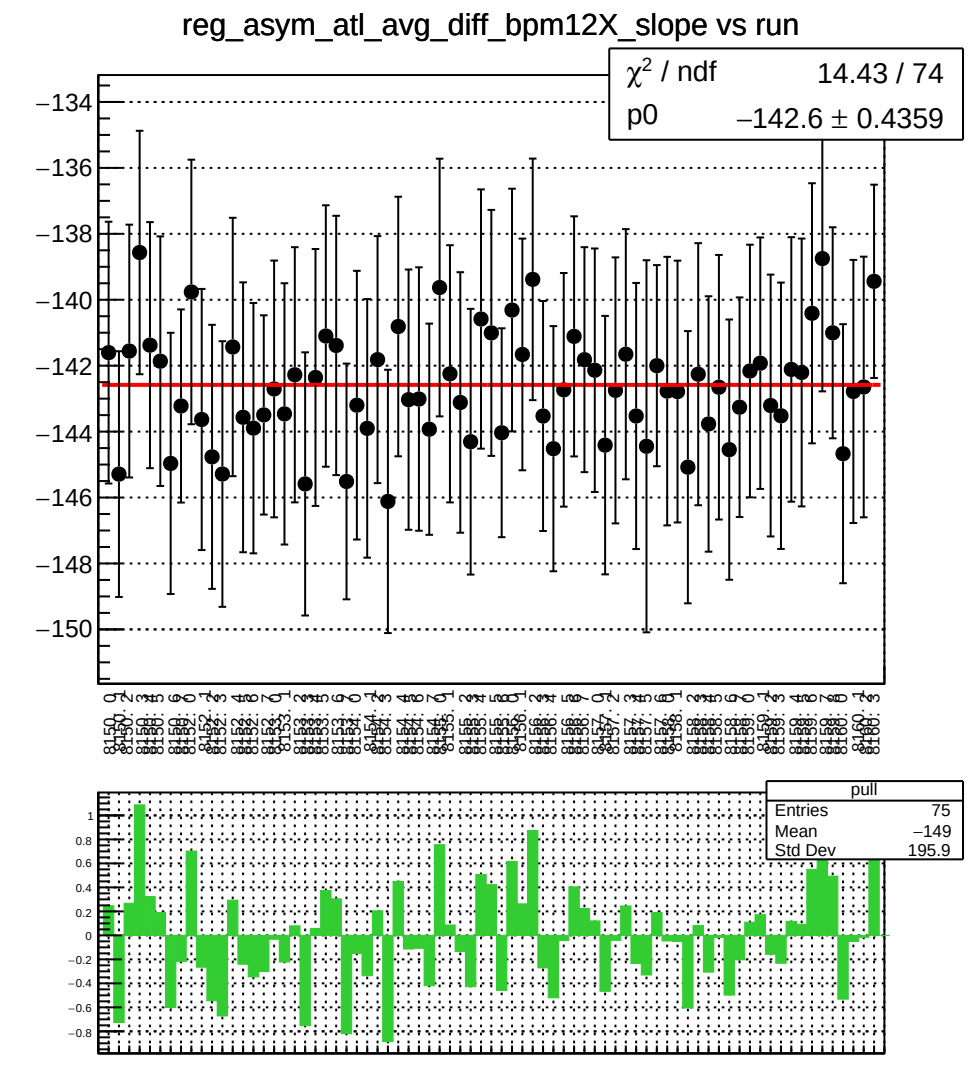

pull1D
Entries 75
Mean 0.003552
Std Dev 0.354

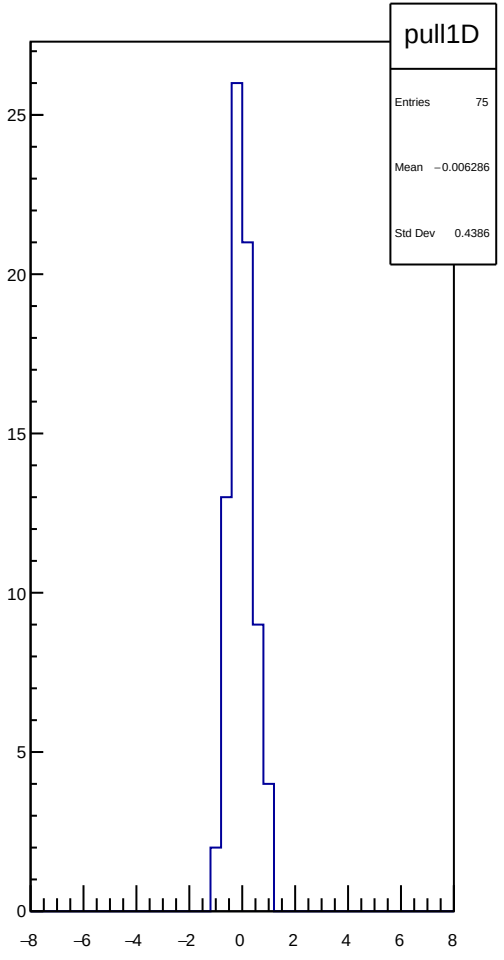

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.204 / 74
p0 211.4 ± 4.686
pull
Entries 75
Mean 578.4
Std Dev 542.5

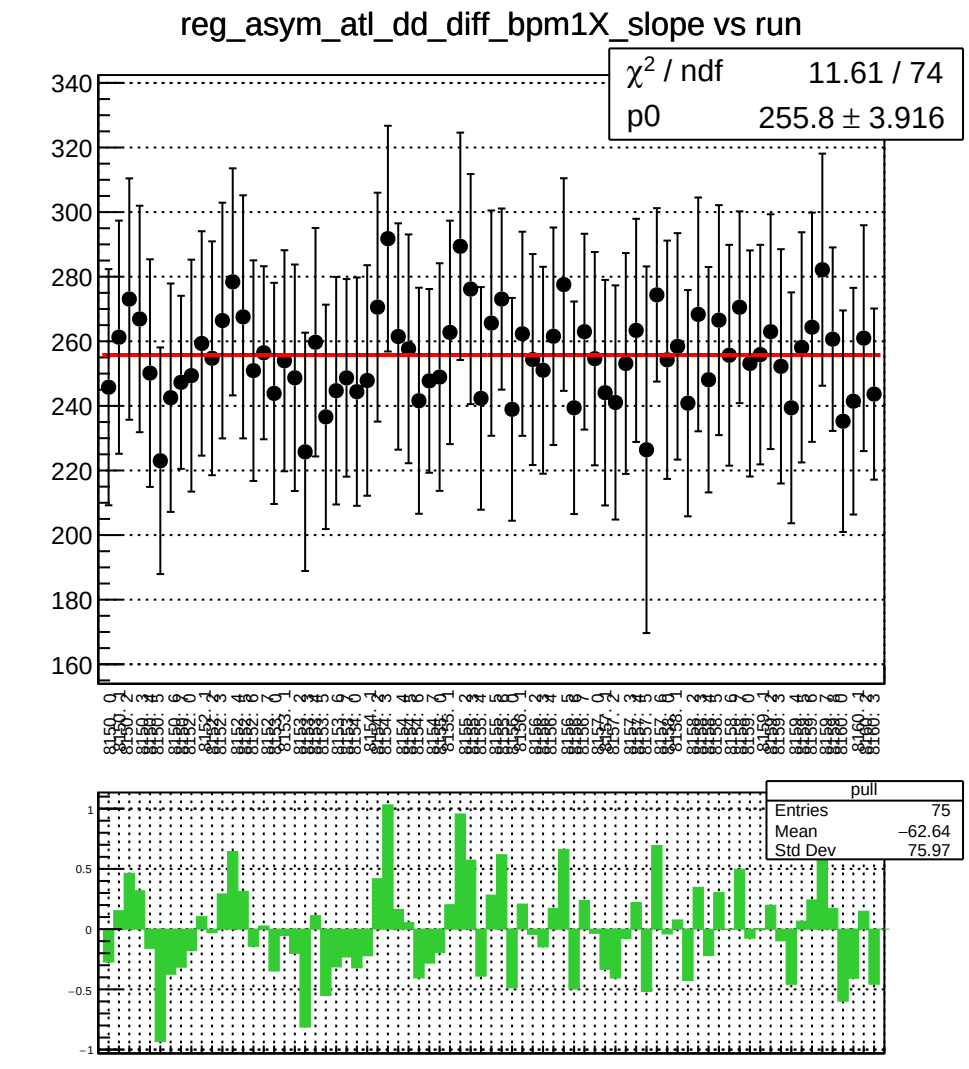

pull1D
Entries 75
Mean 0.005451
Std Dev 0.3503

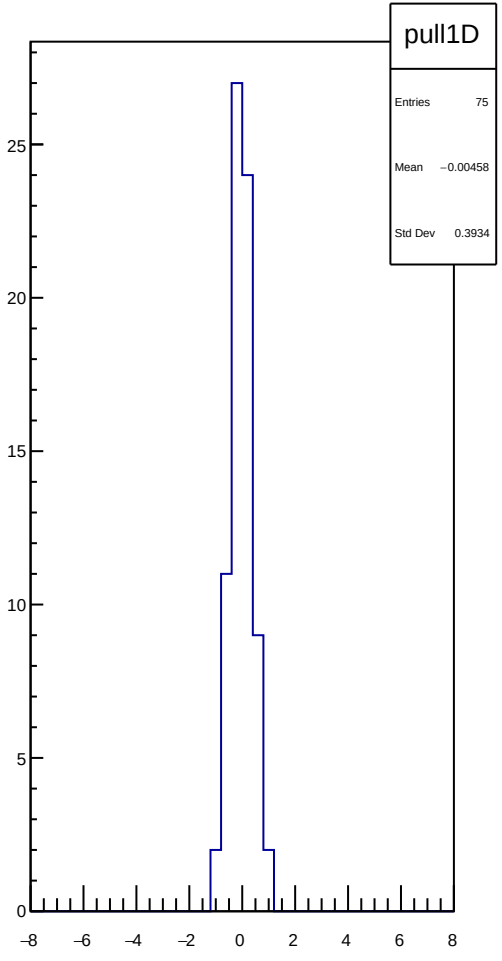

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.315 / 74
p0 −29.33 ± 9.296
pull
Entries 75
Mean −341
Std Dev 377.5

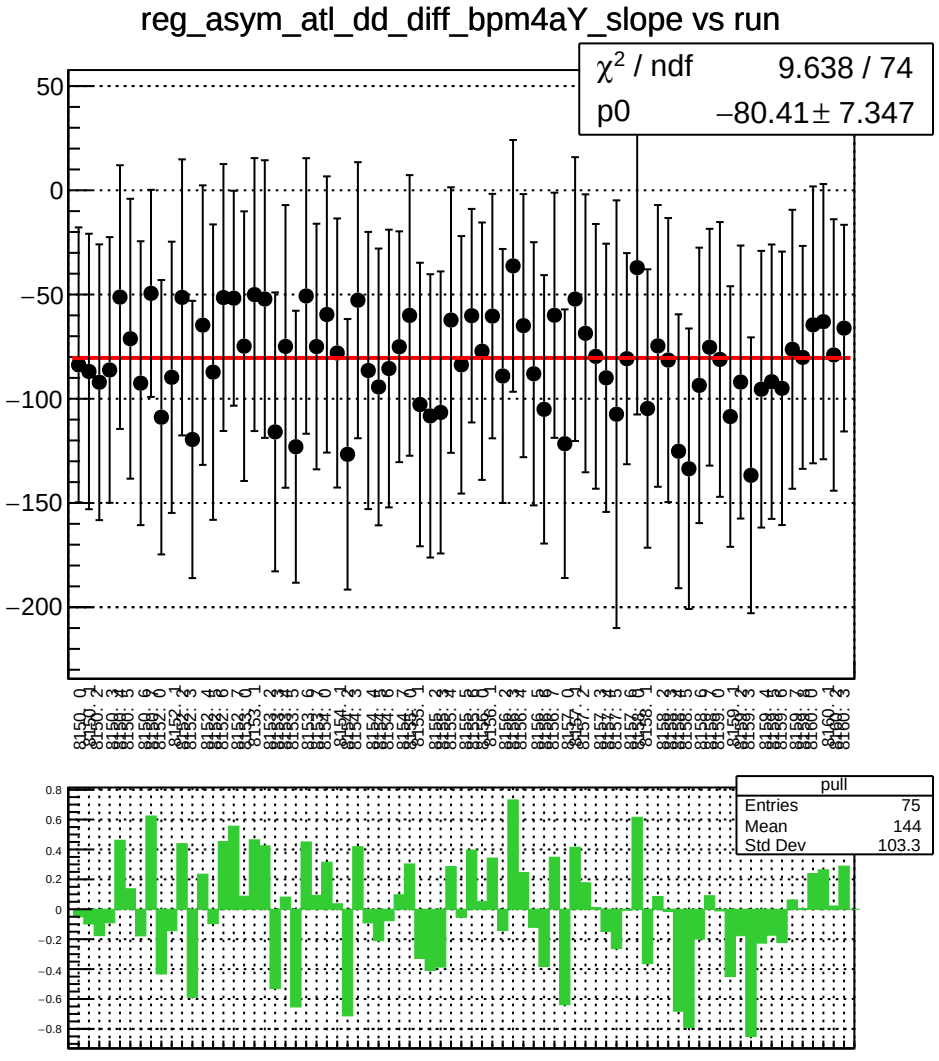

pull1D
Entries 75
Mean −0.003386
Std Dev 0.3524

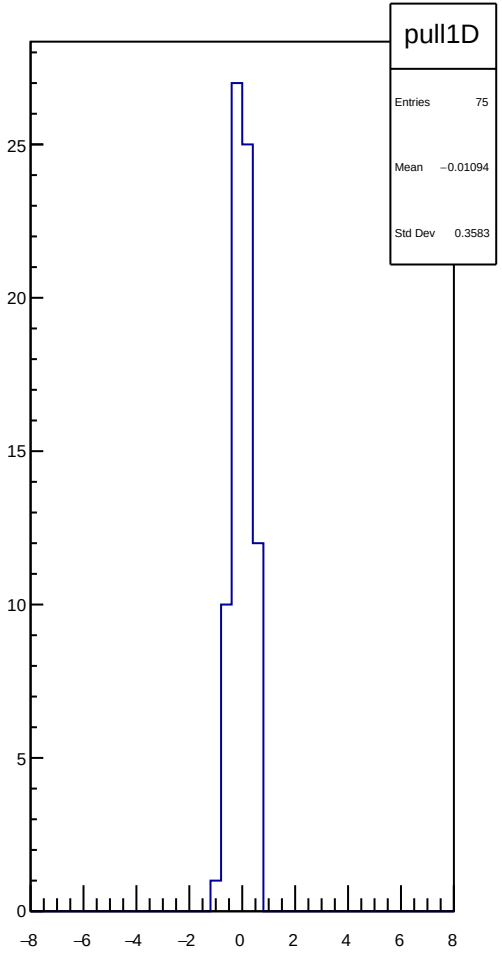

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 14.43 / 74
p0 −142.6 ± 0.4359
pull
Entries 75
Mean −149
Std Dev 195.9

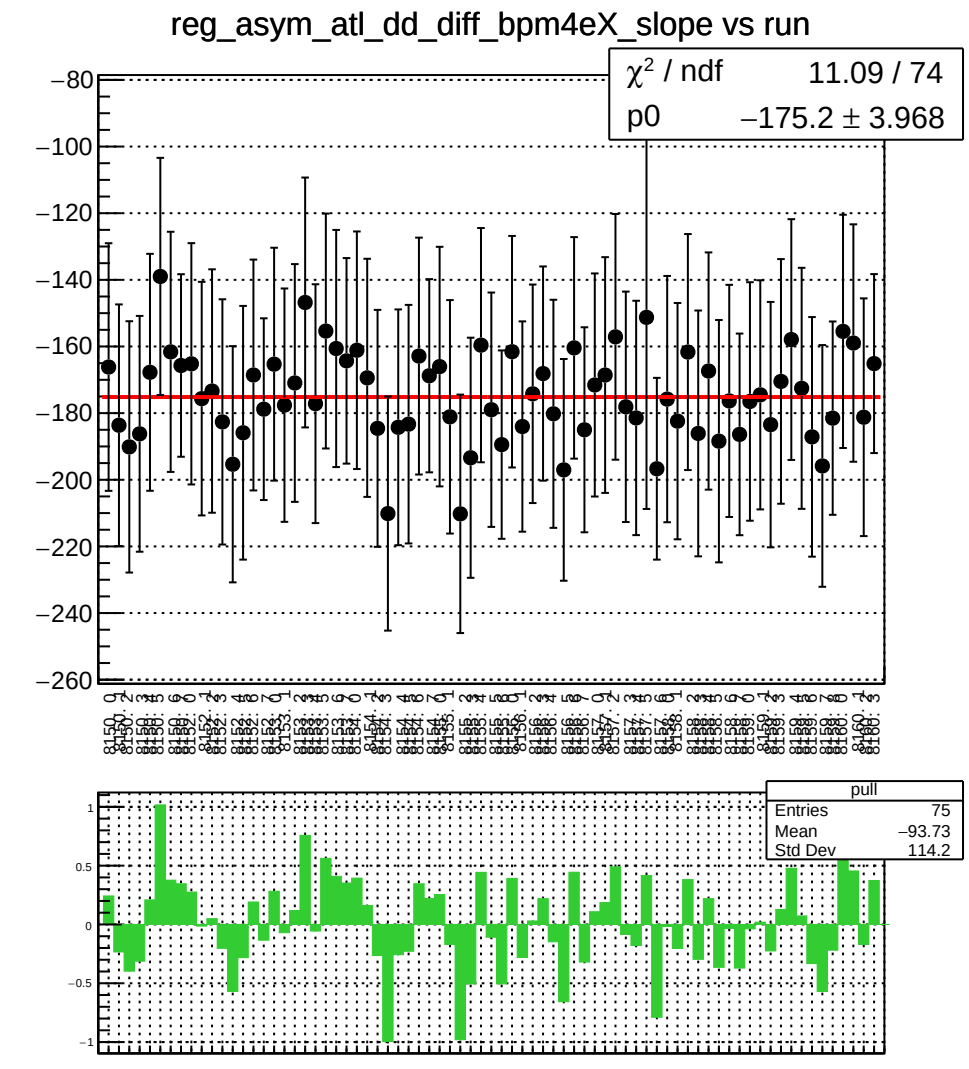

pull1D
Entries 75
Mean −0.006286
Std Dev 0.4386

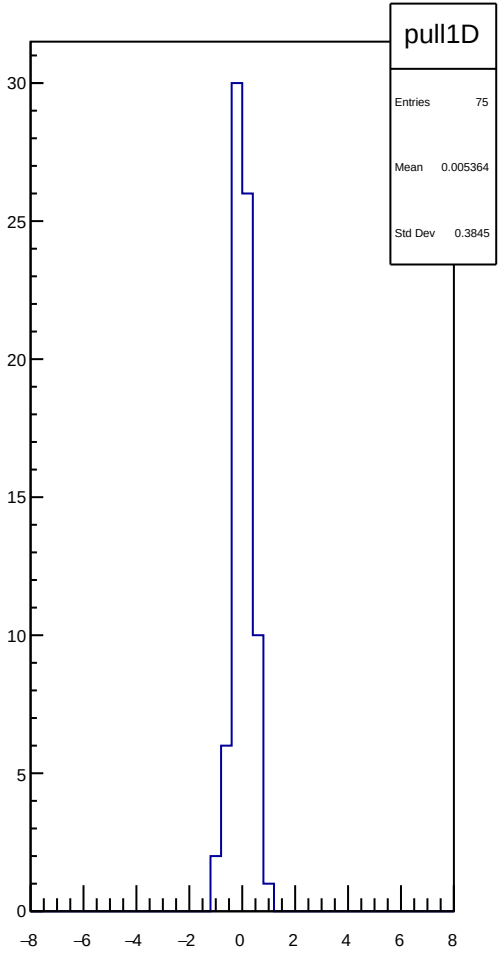

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 11.61 / 74
p0 255.8 ± 3.916
pull
Entries 75
Mean −62.64
Std Dev 75.97

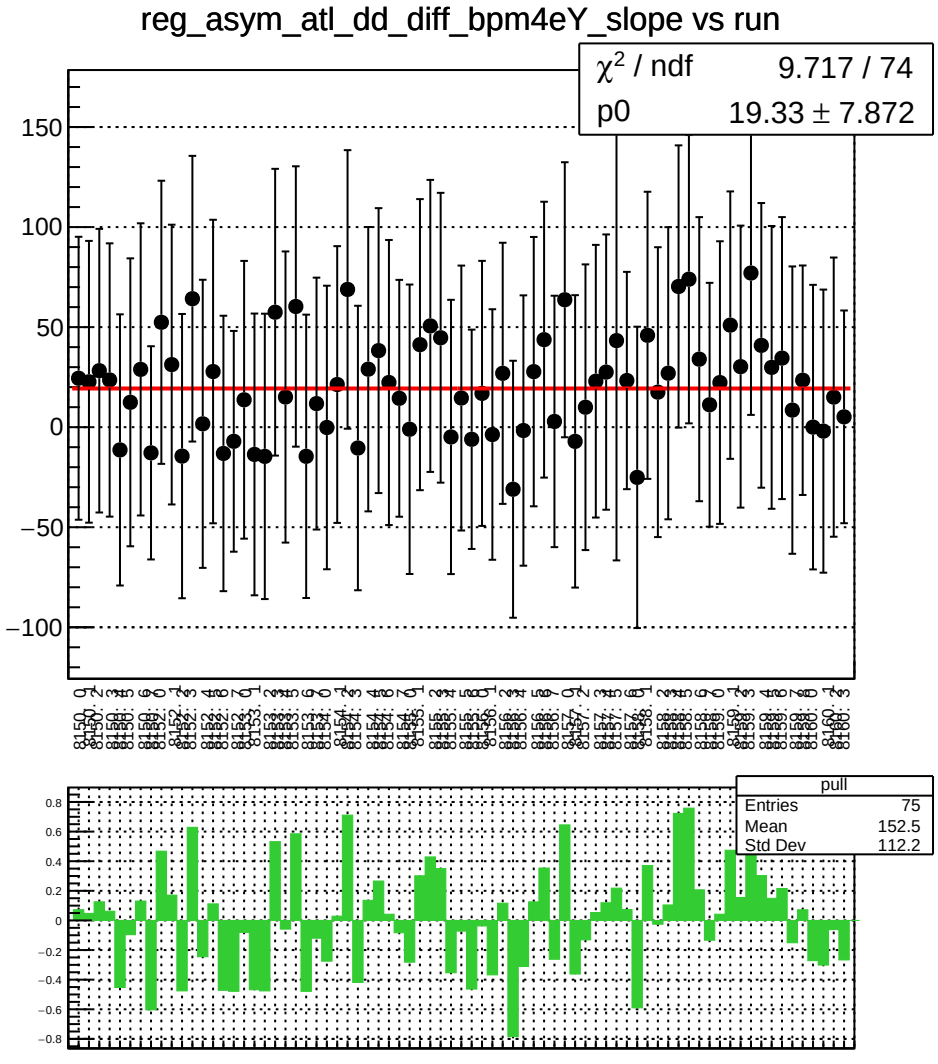

pull1D
Entries 75
Mean −0.00458
Std Dev 0.3934

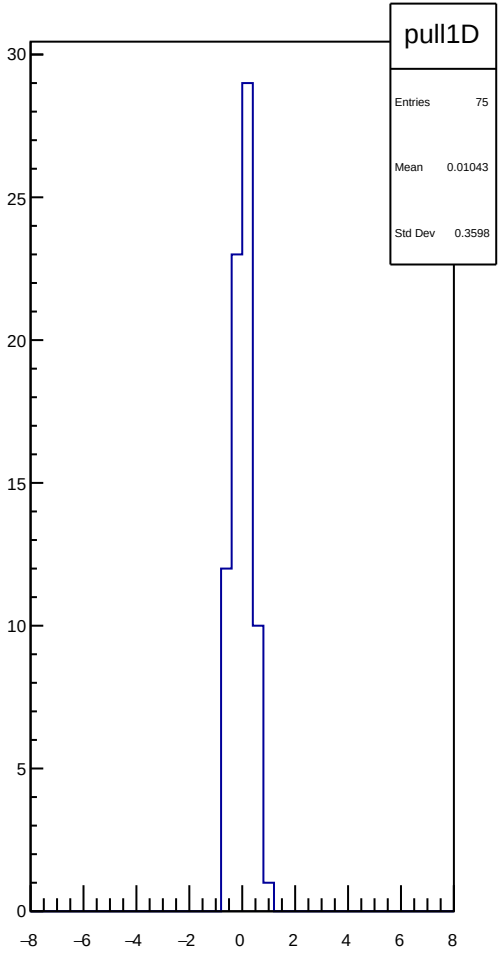

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.638 / 74
p0 −80.41± 7.347
pull
Entries 75
Mean 144
Std Dev 103.3

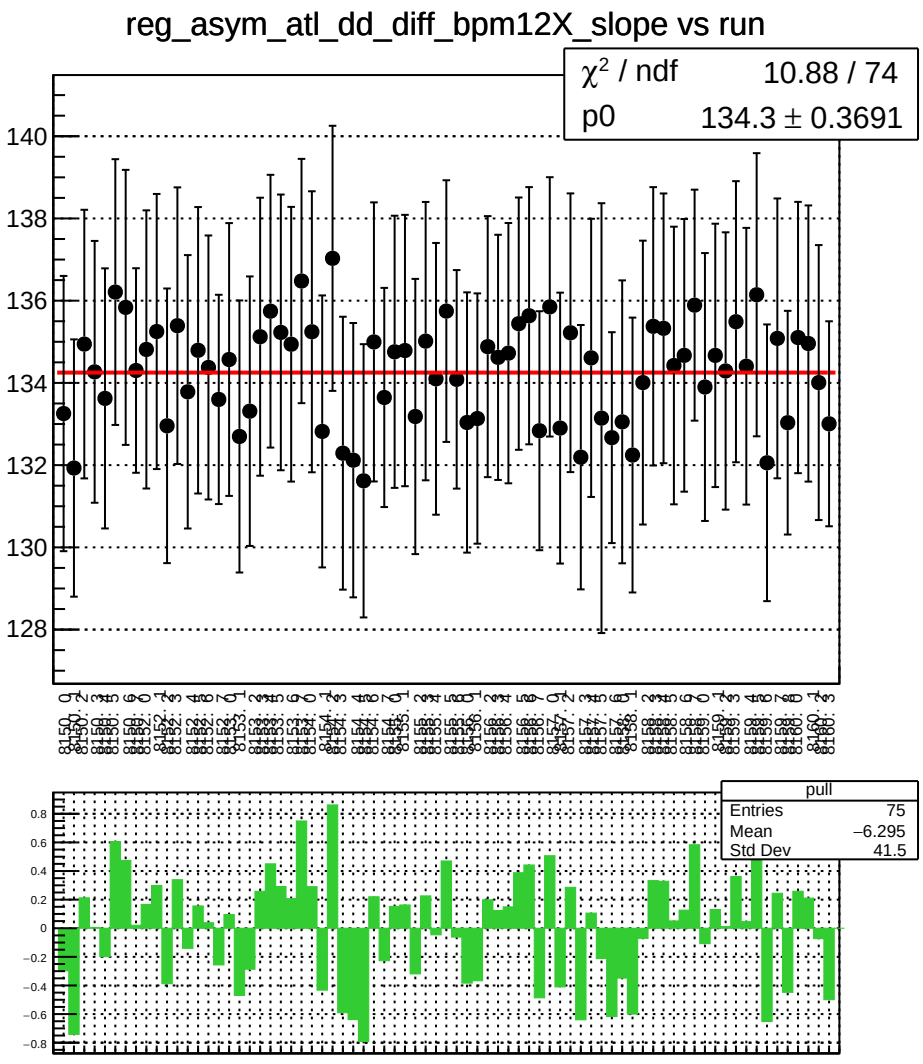

pull1D
Entries 75
Mean −0.01094
Std Dev 0.3583

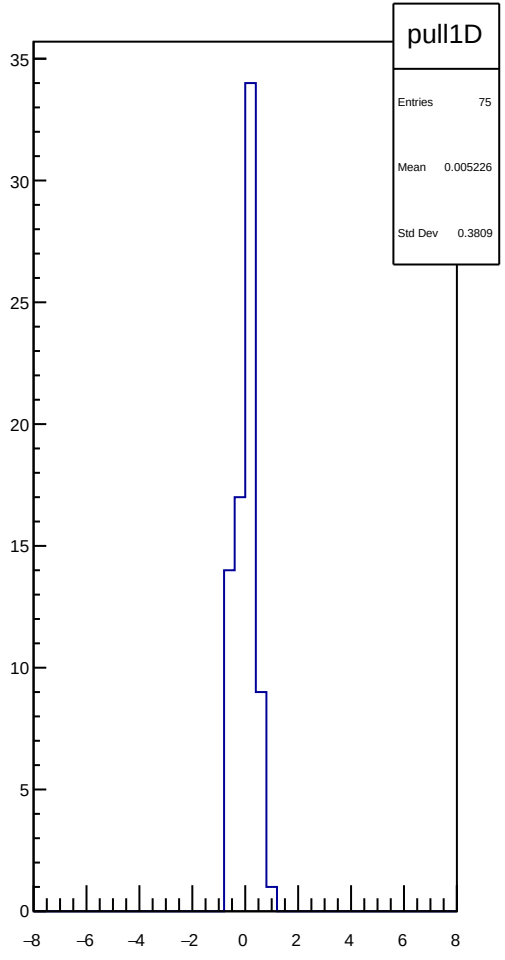

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.09 / 74
p0 −175.2 ± 3.968
pull
Entries 75
Mean −93.73
Std Dev 114.2

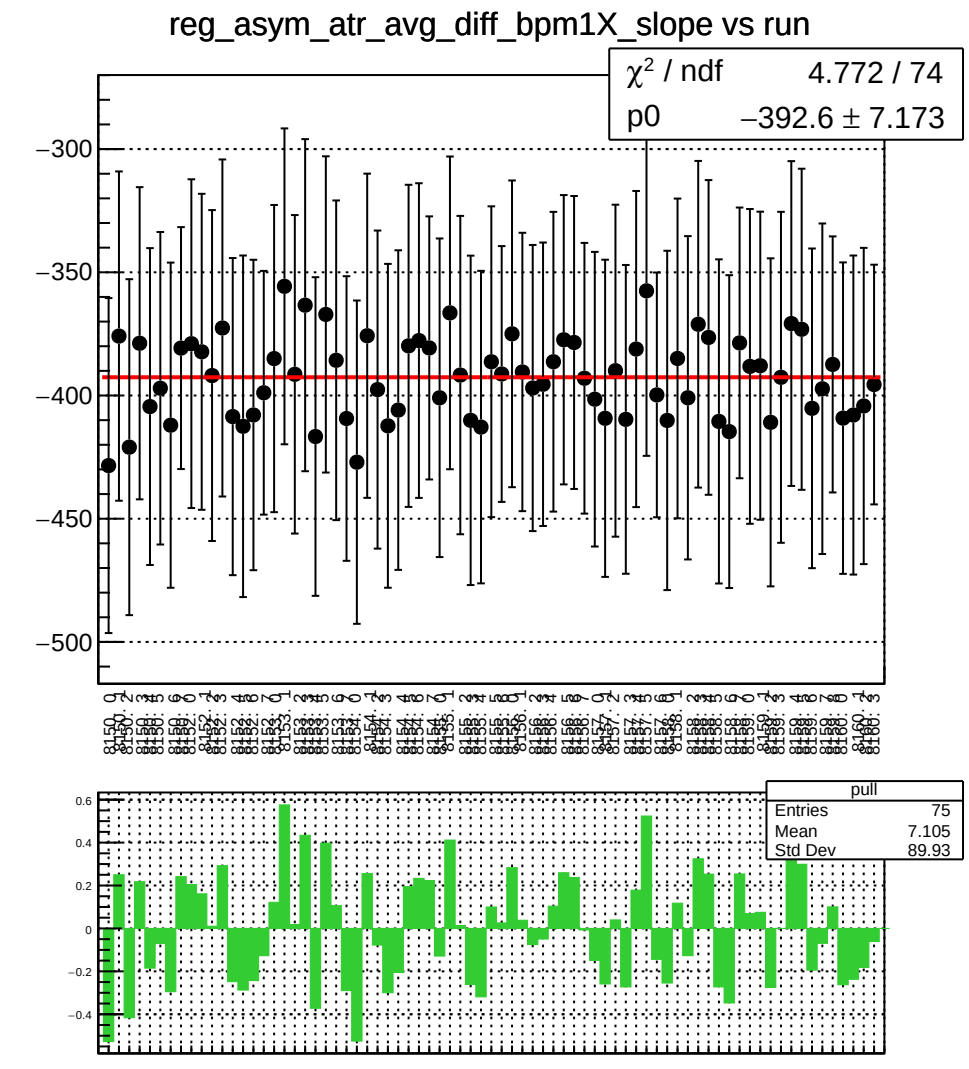

pull1D
Entries 75
Mean 0.005364
Std Dev 0.3845

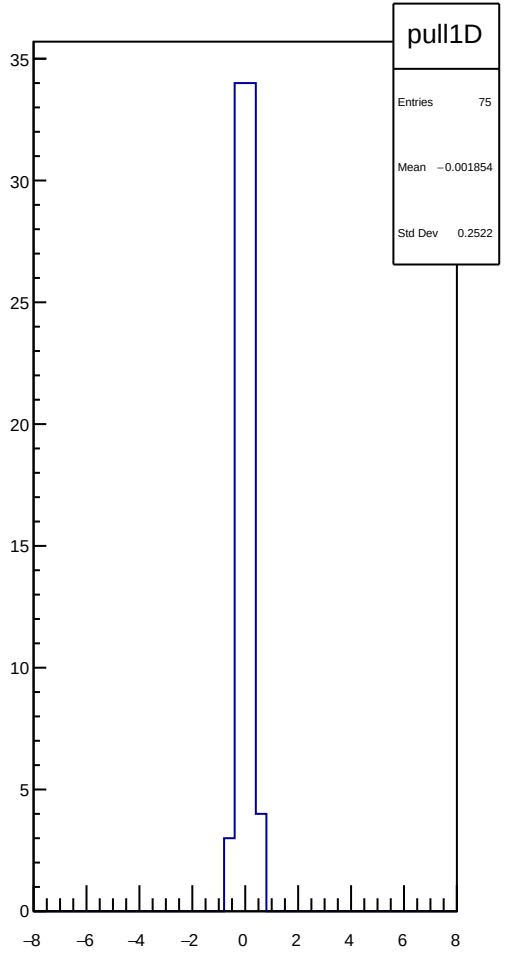

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.717 / 74
p0 19.33 ± 7.872
pull
Entries 75
Mean 152.5
Std Dev 112.2

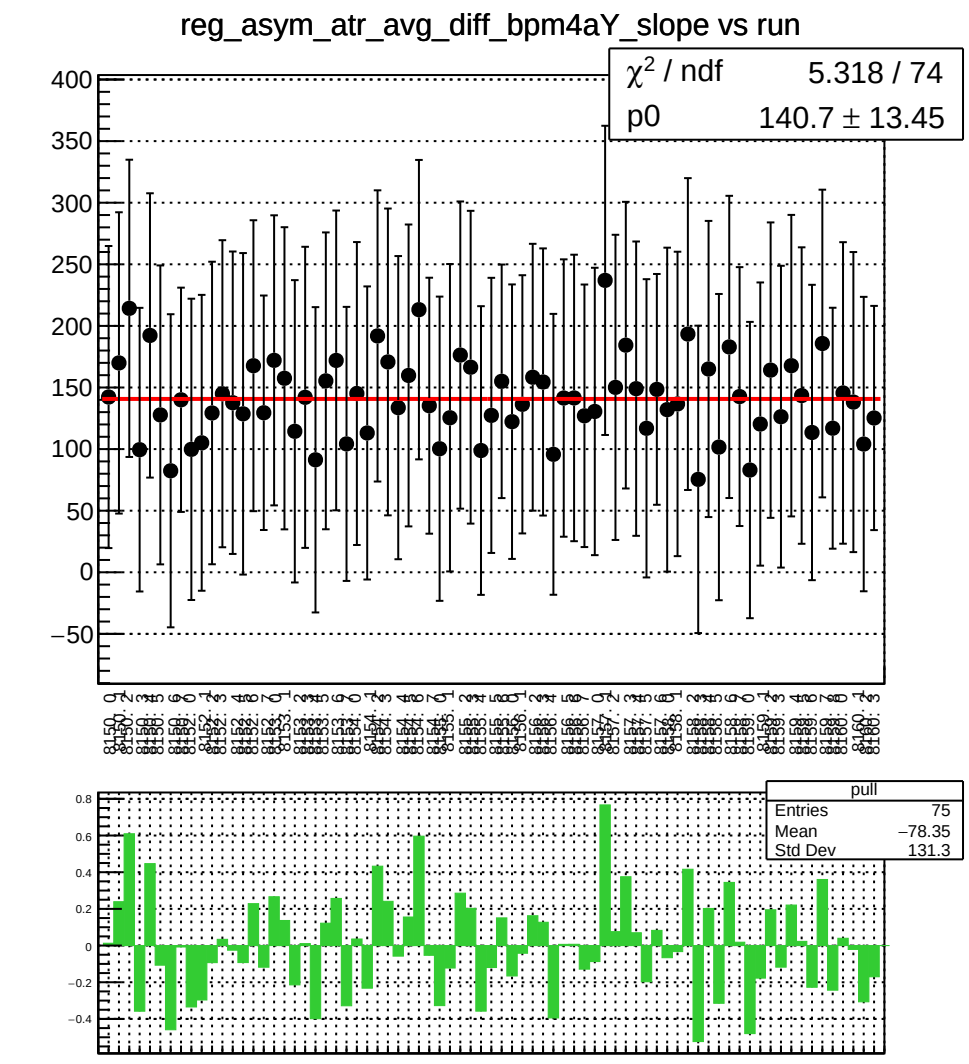

pull1D
Entries 75
Mean 0.01043
Std Dev 0.3598

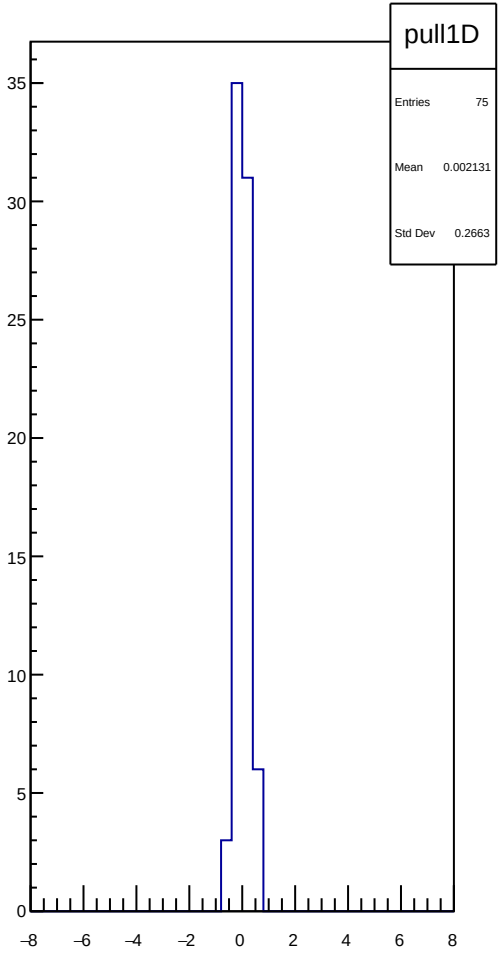

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 10.88 / 74
p0 134.3 ± 0.3691
140
138
136
134
132
130
128
pull
Entries 75
Mean −6.295
Std Dev 41.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

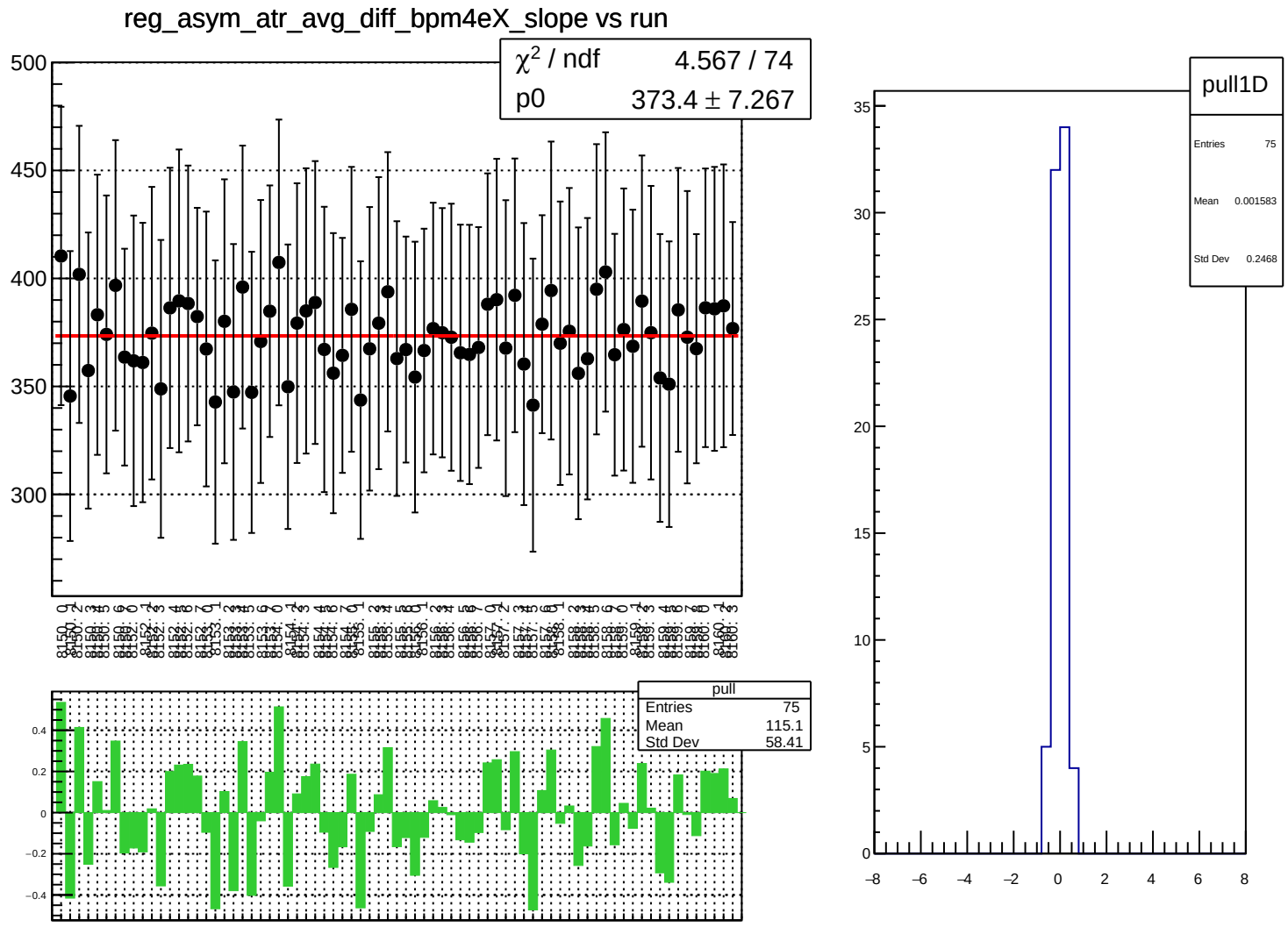

pull1D
Entries 75
Mean 0.005226
Std Dev 0.3809
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

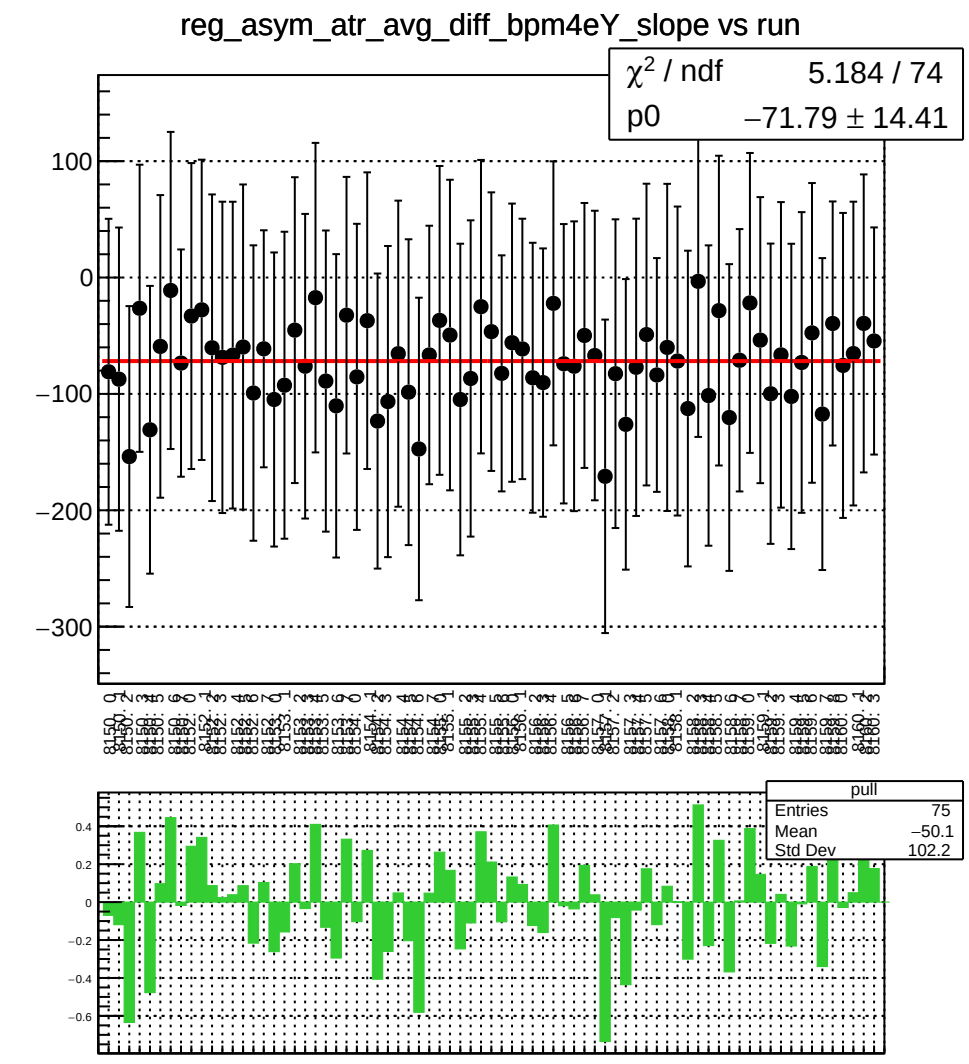

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 4.772 / 74
p0 −392.6 ± 7.173
−300
−350
−400
−450
−500
pull
Entries 75
Mean 7.105
Std Dev 89.93
0.6
0.4
0.2
0
−0.2
−0.4

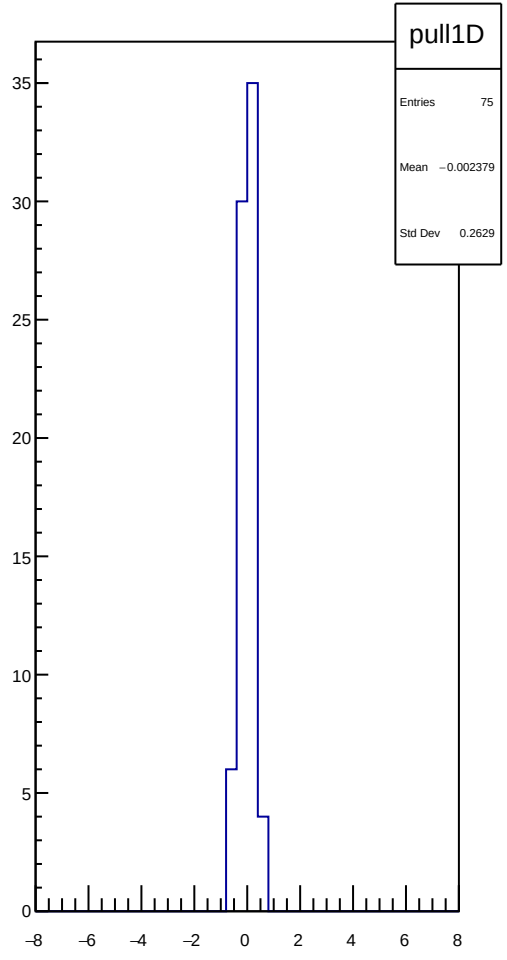

pull1D
Entries 75
Mean −0.001854
Std Dev 0.2522
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

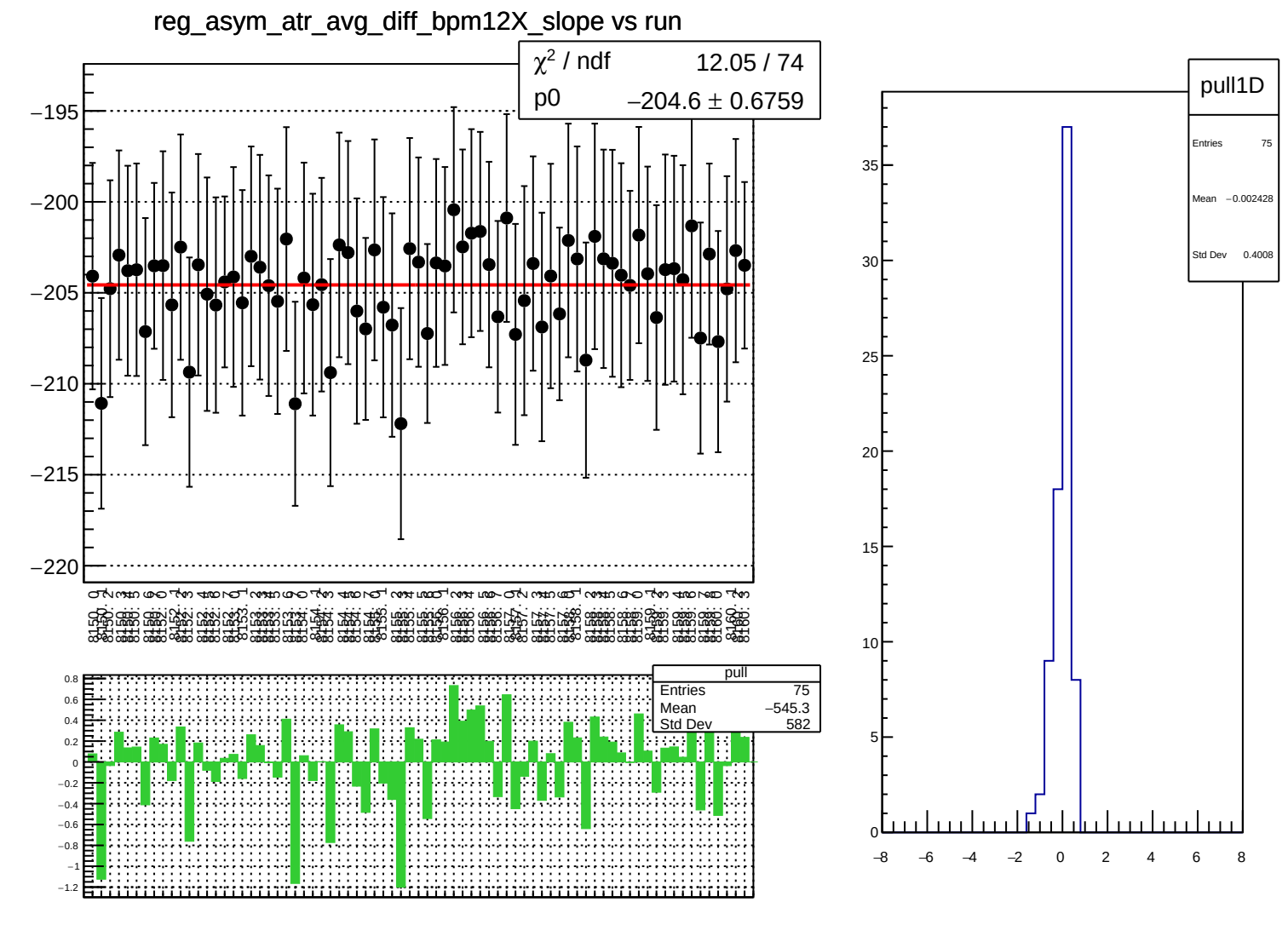

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.318 / 74
p0 140.7 ± 13.45
pull
Entries 75
Mean −78.35
Std Dev 131.3

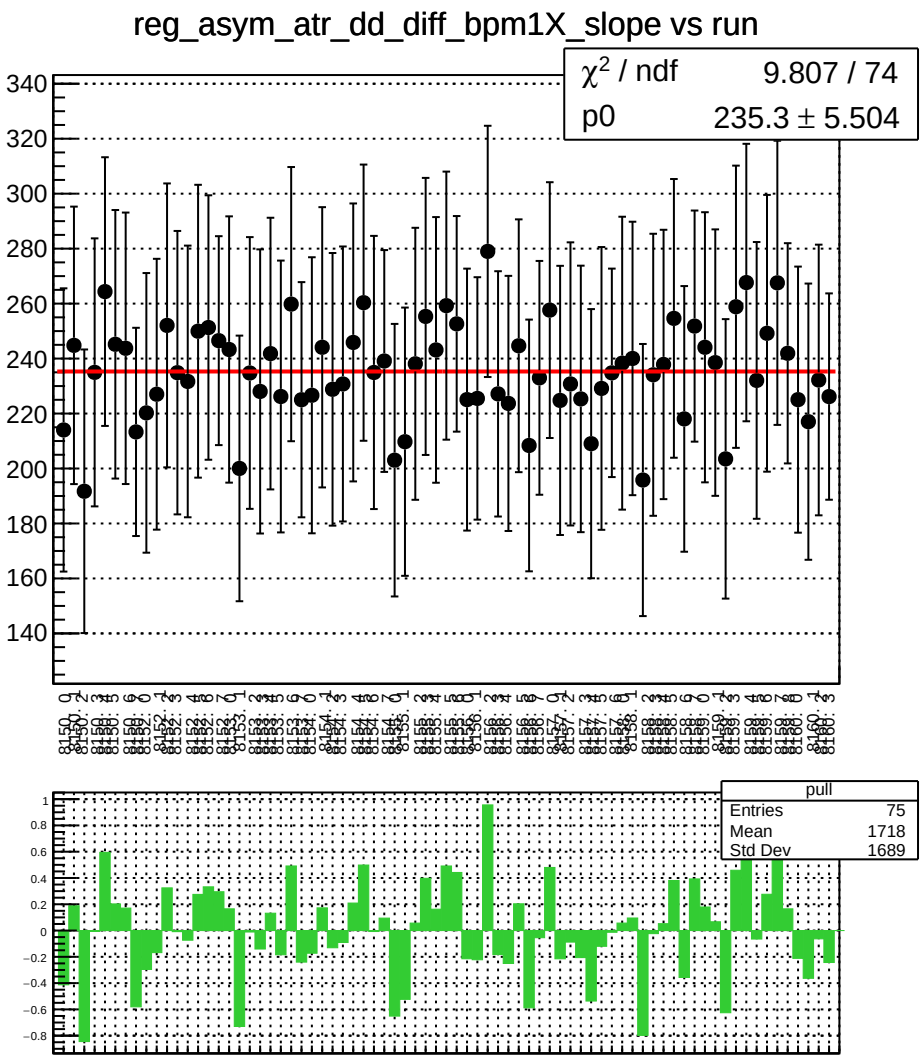

pull1D
Entries 75
Mean 0.002131
Std Dev 0.2663

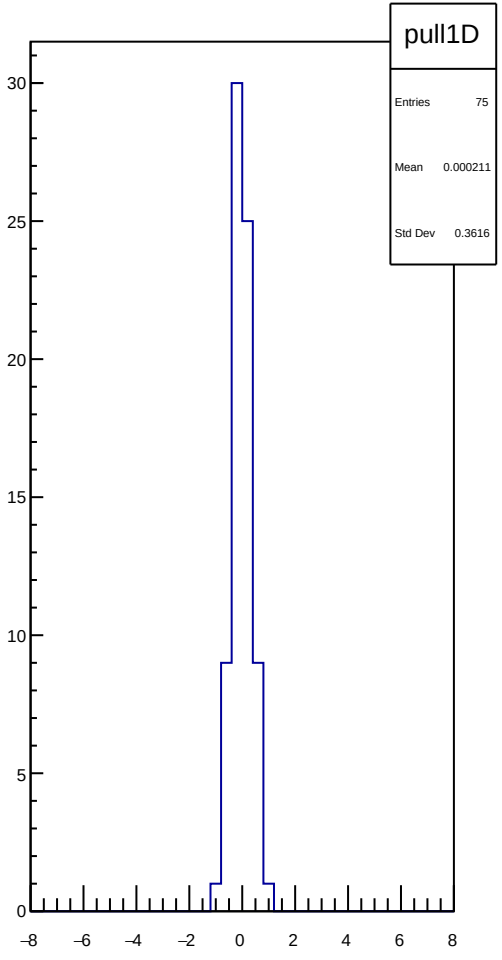

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.567 / 74
p0 373.4 ± 7.267
pull
Entries 75
Mean 115.1
Std Dev 58.41
pull1D
Entries 75
Mean 0.001583
Std Dev 0.2468

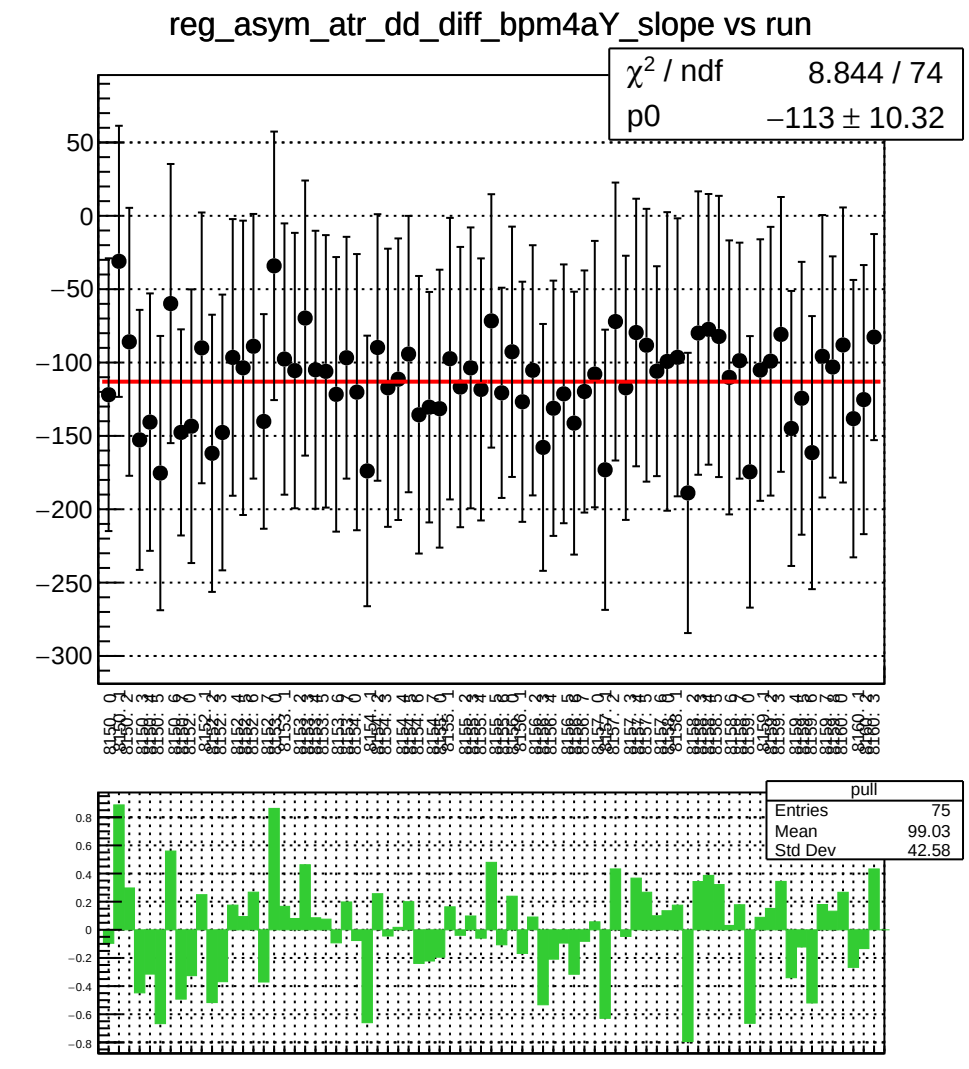

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.184 / 74
p0 −71.79 ± 14.41
100
0
−100
−200
−300
pull
Entries 75
Mean −50.1
Std Dev 102.2
0.4
0.2
0
−0.2
−0.4
−0.6

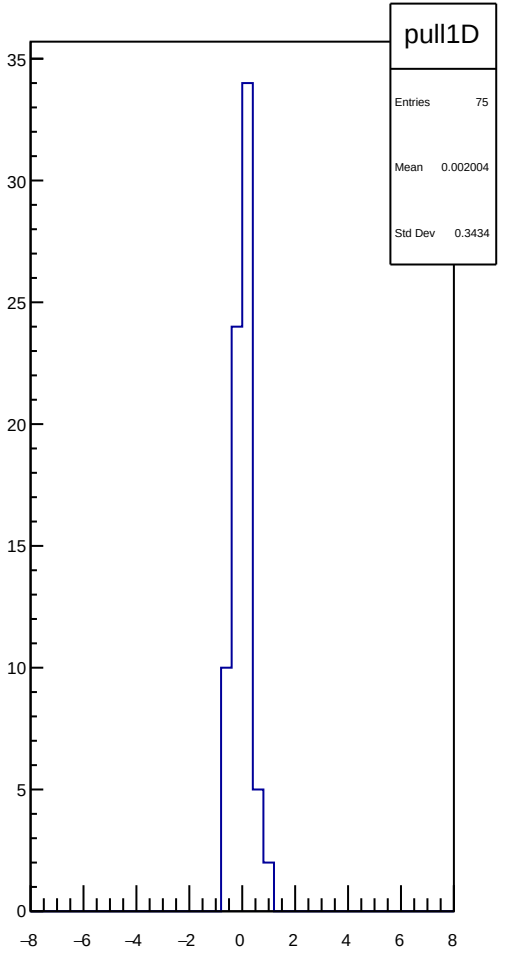

pull1D
Entries 75
Mean −0.002379
Std Dev 0.2629
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

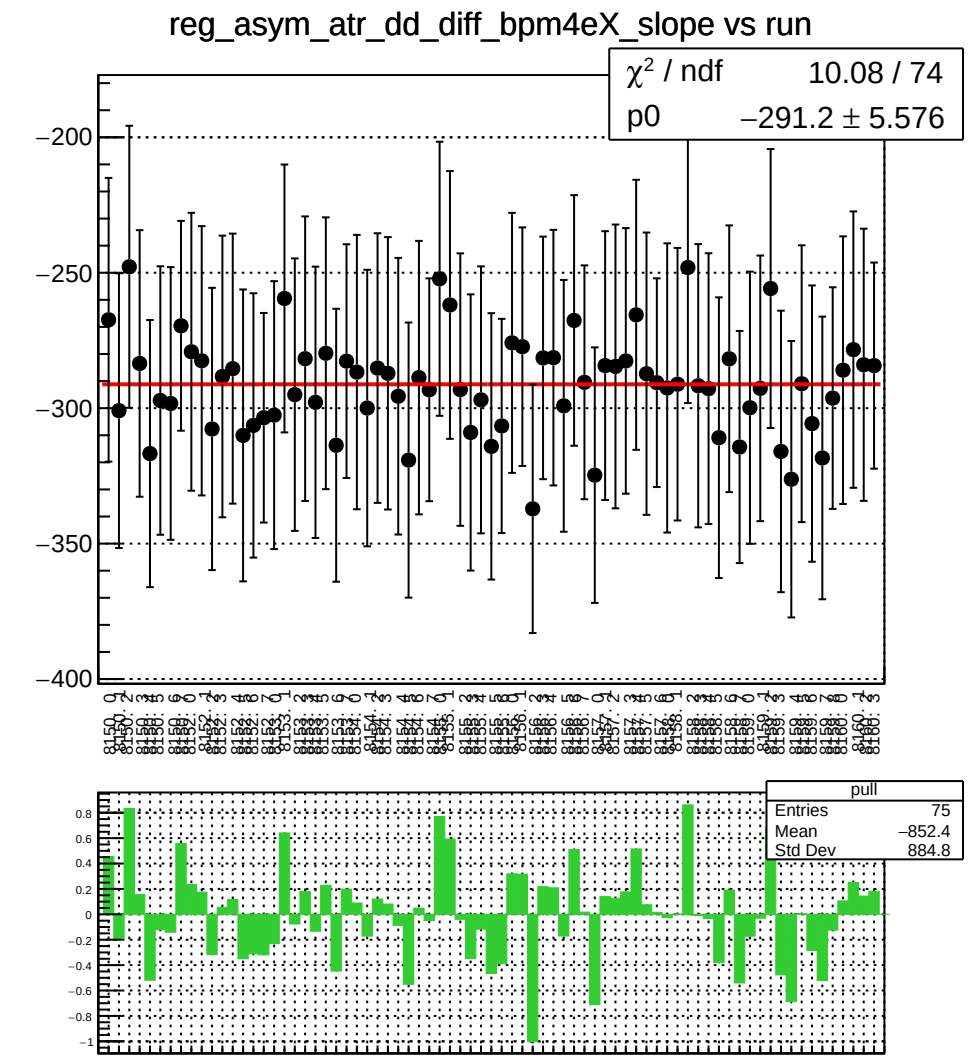

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 12.05 / 74
p0 −204.6 ± 0.6759
pull
Entries 75
Mean −545.3
Std Dev 582
pull1D
Entries 75
Mean −0.002428
Std Dev 0.4008

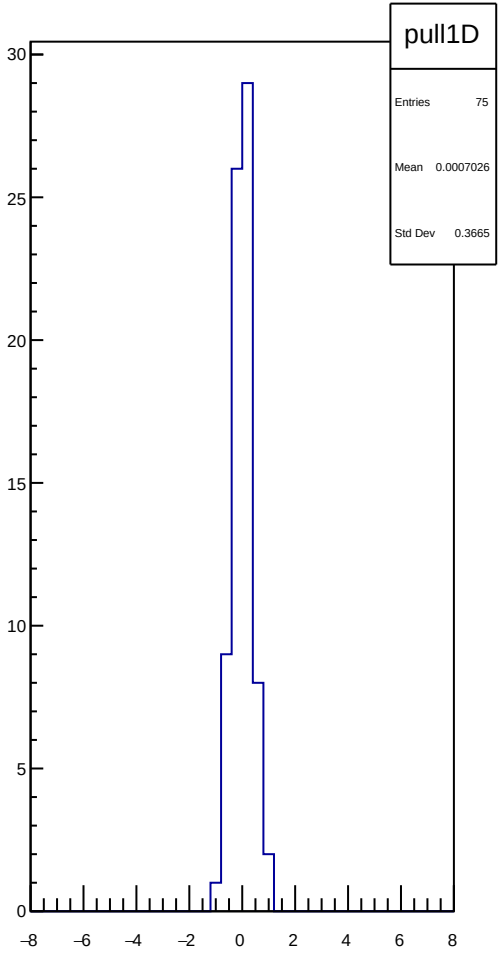

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 9.807 / 74
p0 235.3 ± 5.504
pull
Entries 75
Mean 1718
Std Dev 1689

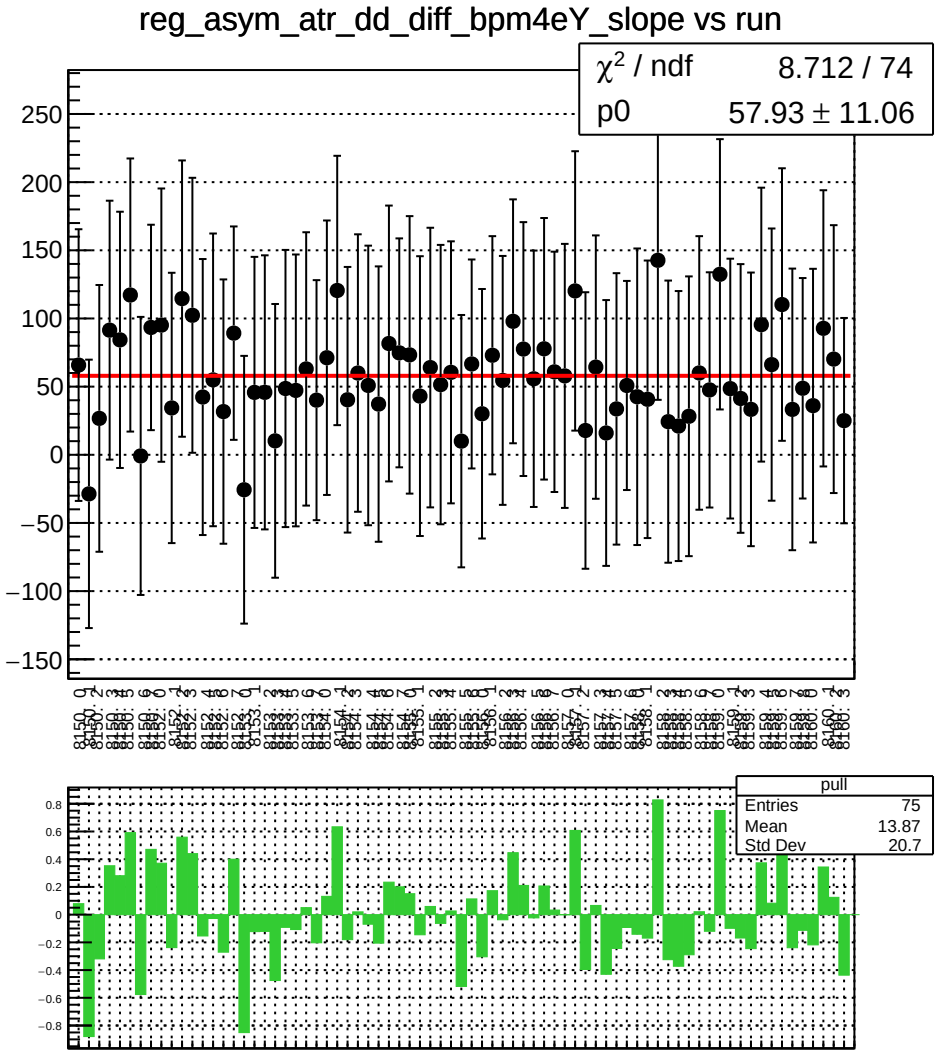

pull1D
Entries 75
Mean 0.000211
Std Dev 0.3616

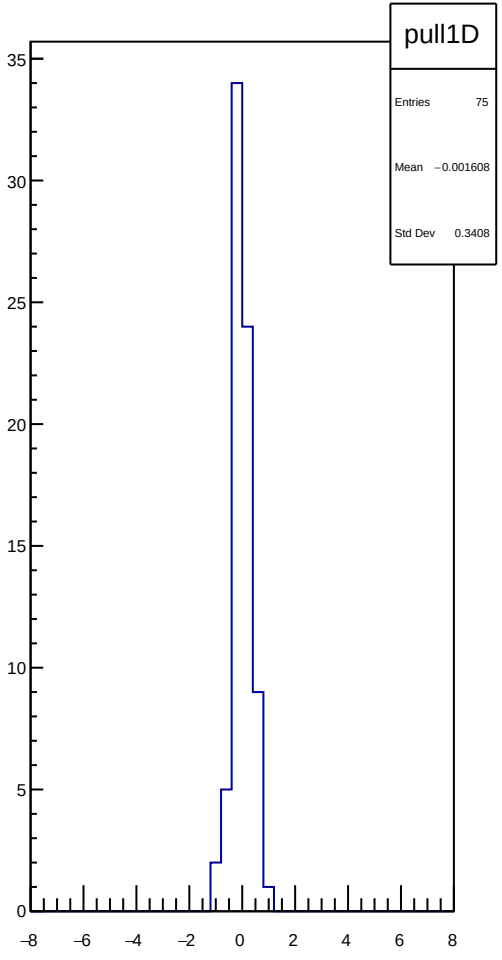

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.844 / 74
p0 −113 ± 10.32
pull
Entries 75
Mean 99.03
Std Dev 42.58

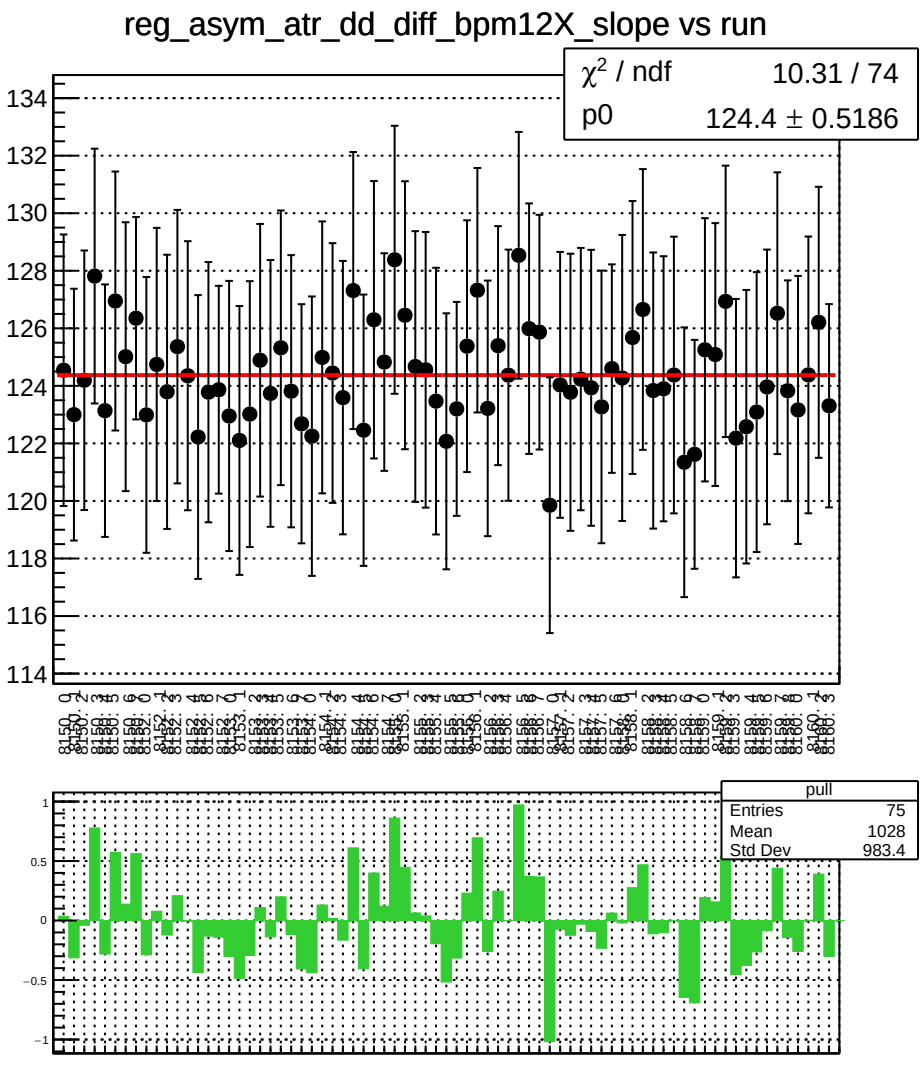

pull1D
Entries 75
Mean 0.002004
Std Dev 0.3434

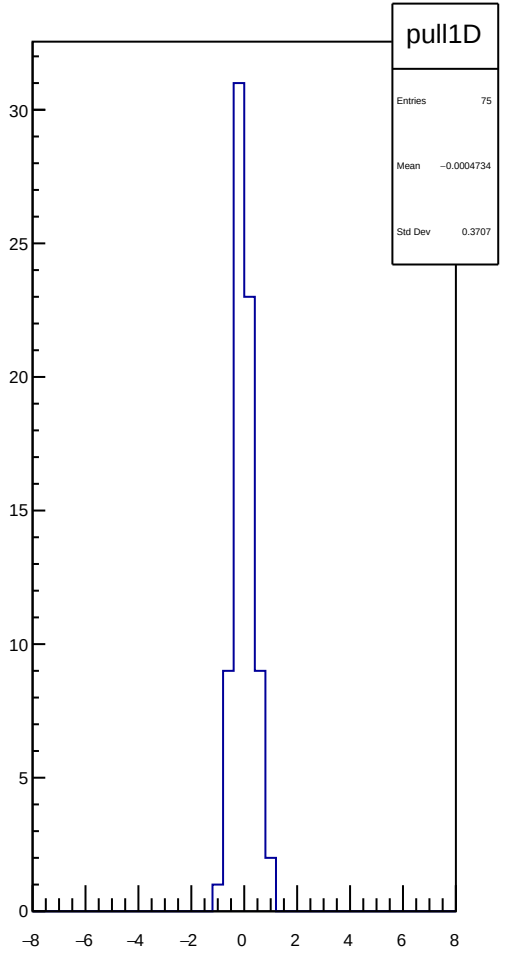

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.08 / 74
p0 −291.2 ± 5.576
−200
−250
−300
−350
−400
pull
Entries 75
Mean −852.4
Std Dev 884.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

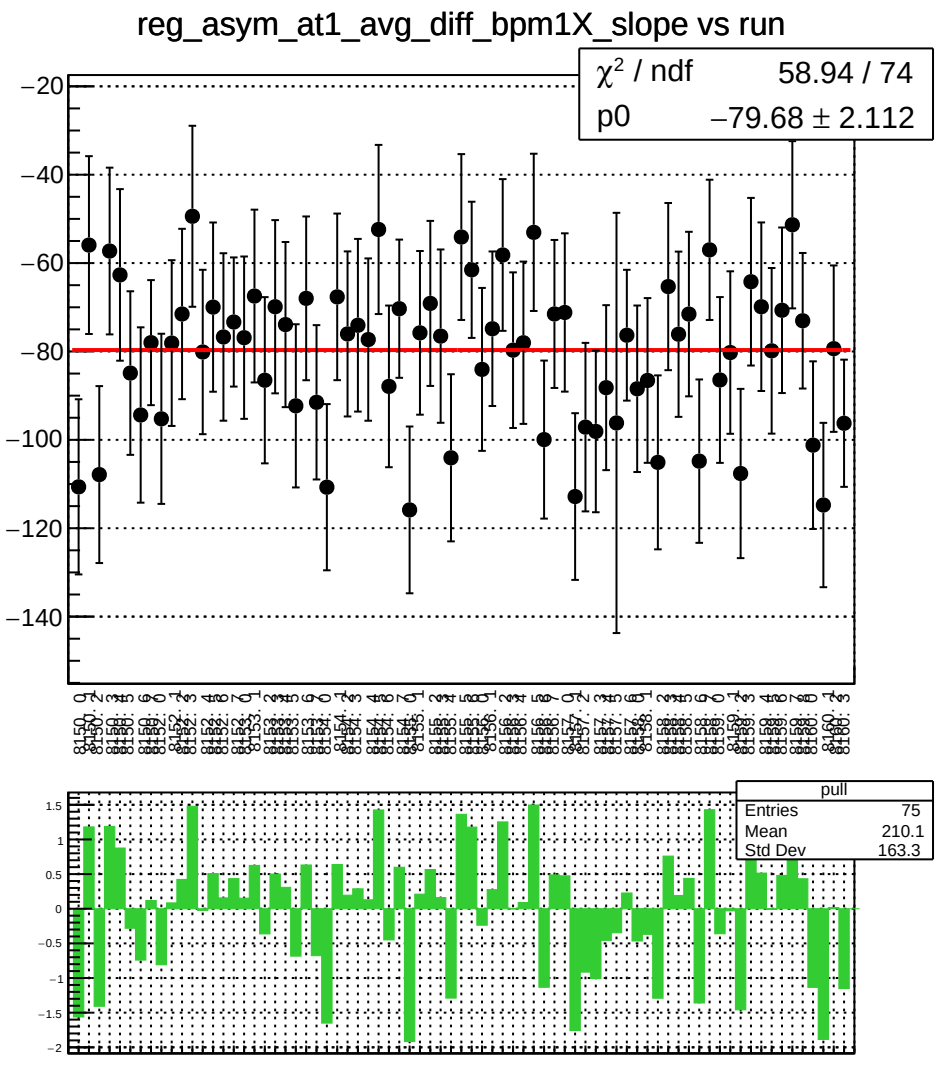

pull1D
Entries 75
Mean 0.0007026
Std Dev 0.3665
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

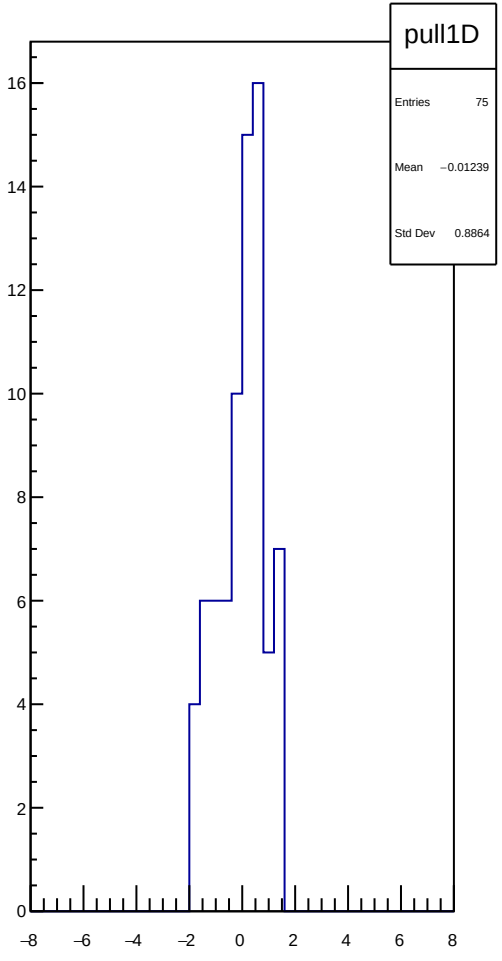

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.712 / 74
p0 57.93 ± 11.06
pull
Entries 75
Mean 13.87
Std Dev 20.7

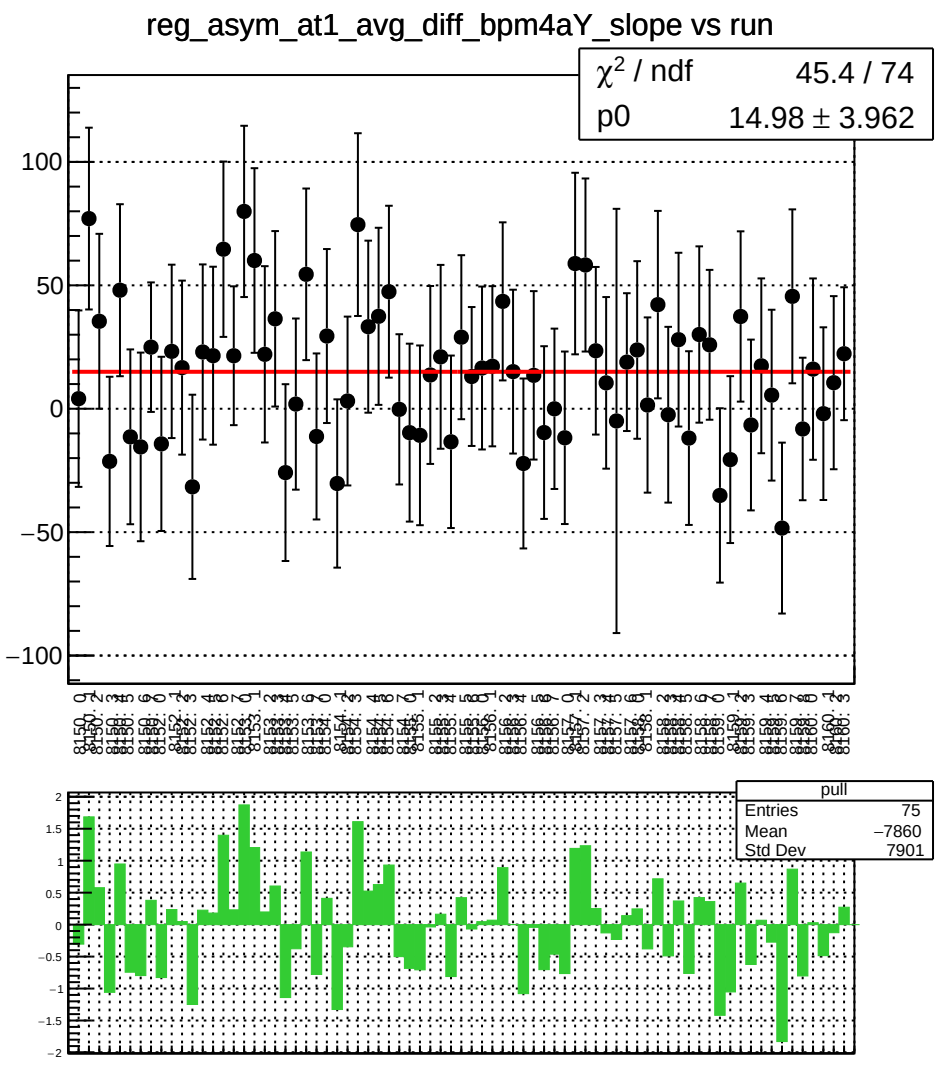

pull1D
Entries 75
Mean −0.001608
Std Dev 0.3408

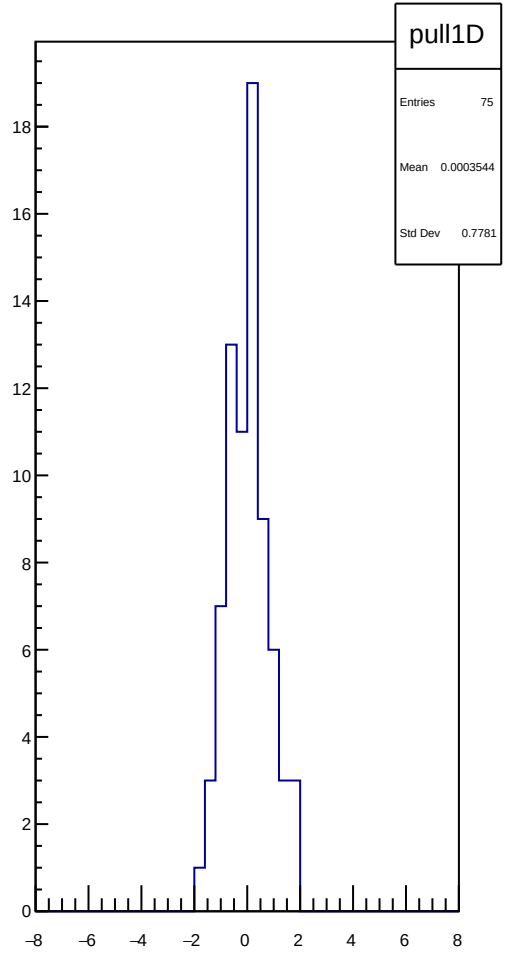

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 10.31 / 74
p0 124.4 ± 0.5186
pull
Entries 75
Mean 1028
Std Dev 983.4

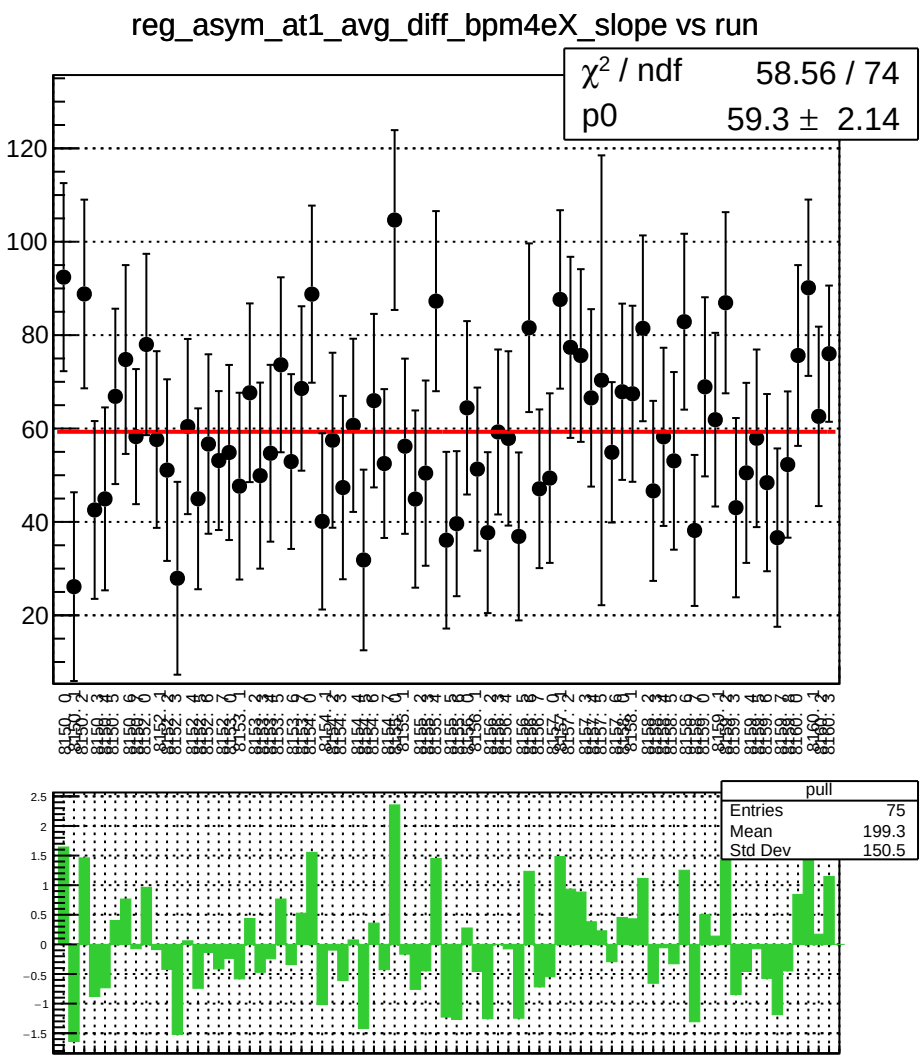

pull1D
Entries 75
Mean −0.0004734
Std Dev 0.3707

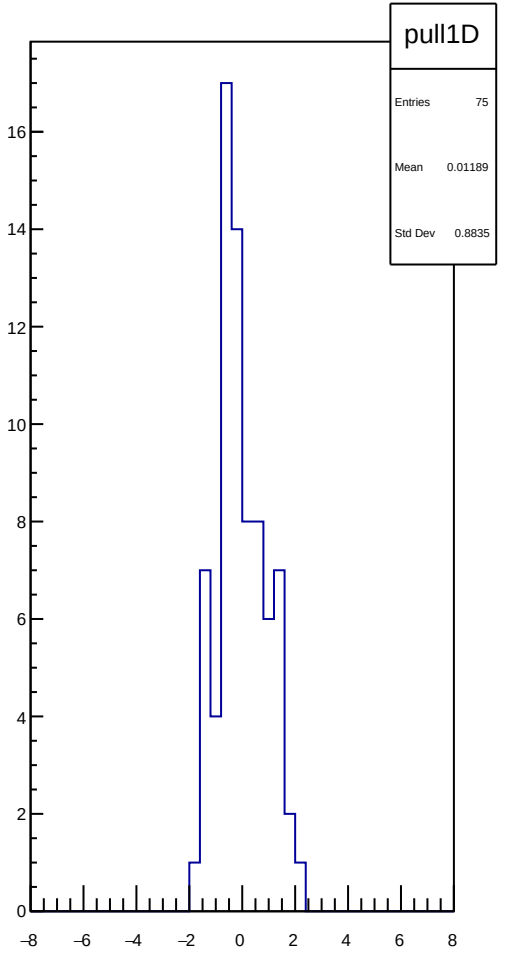

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 58.94 / 74
p0 −79.68 ± 2.112
pull
Entries 75
Mean 210.1
Std Dev 163.3

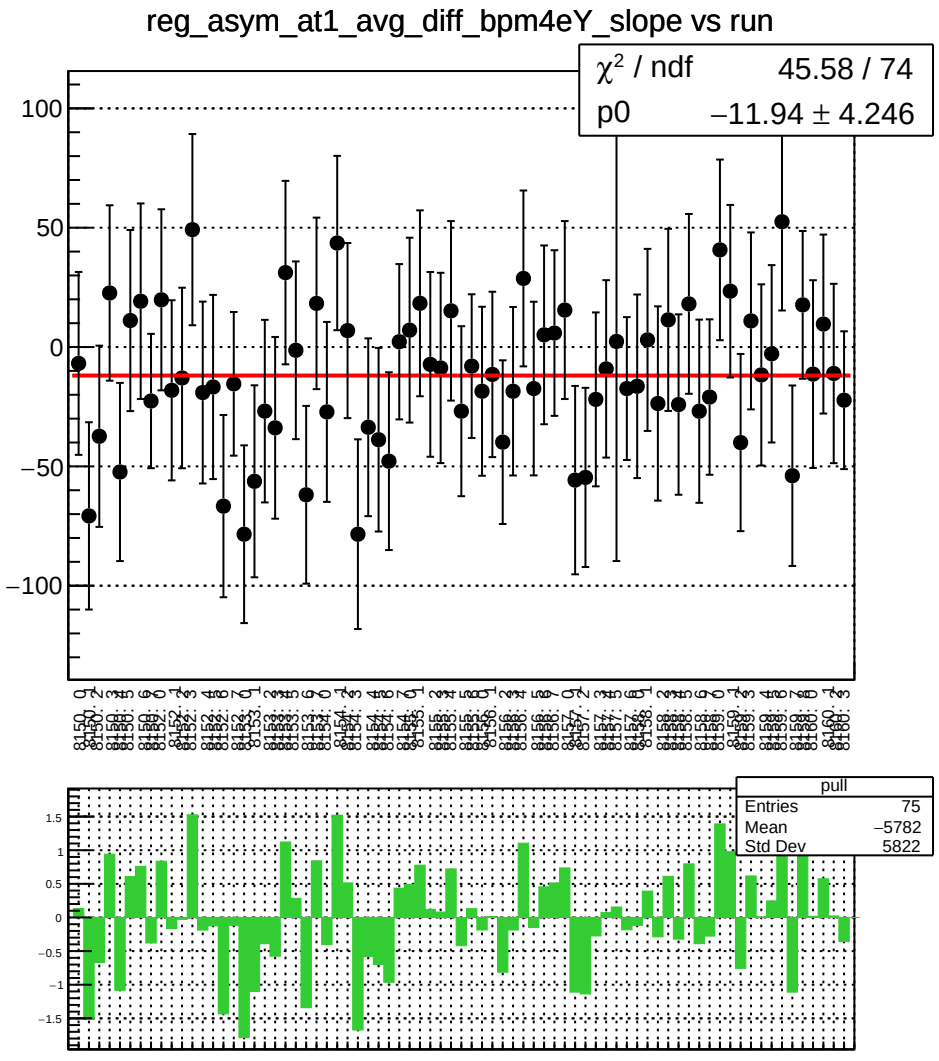

pull1D
Entries 75
Mean −0.01239
Std Dev 0.8864

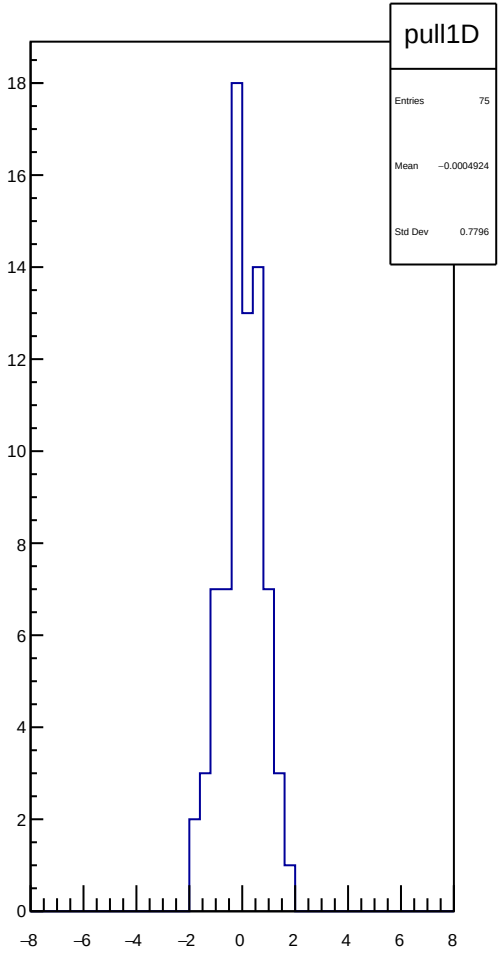

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.4 / 74
p0 14.98 ± 3.962
100
50
0
−50
−100
pull
Entries 75
Mean −7860
Std Dev 7901
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

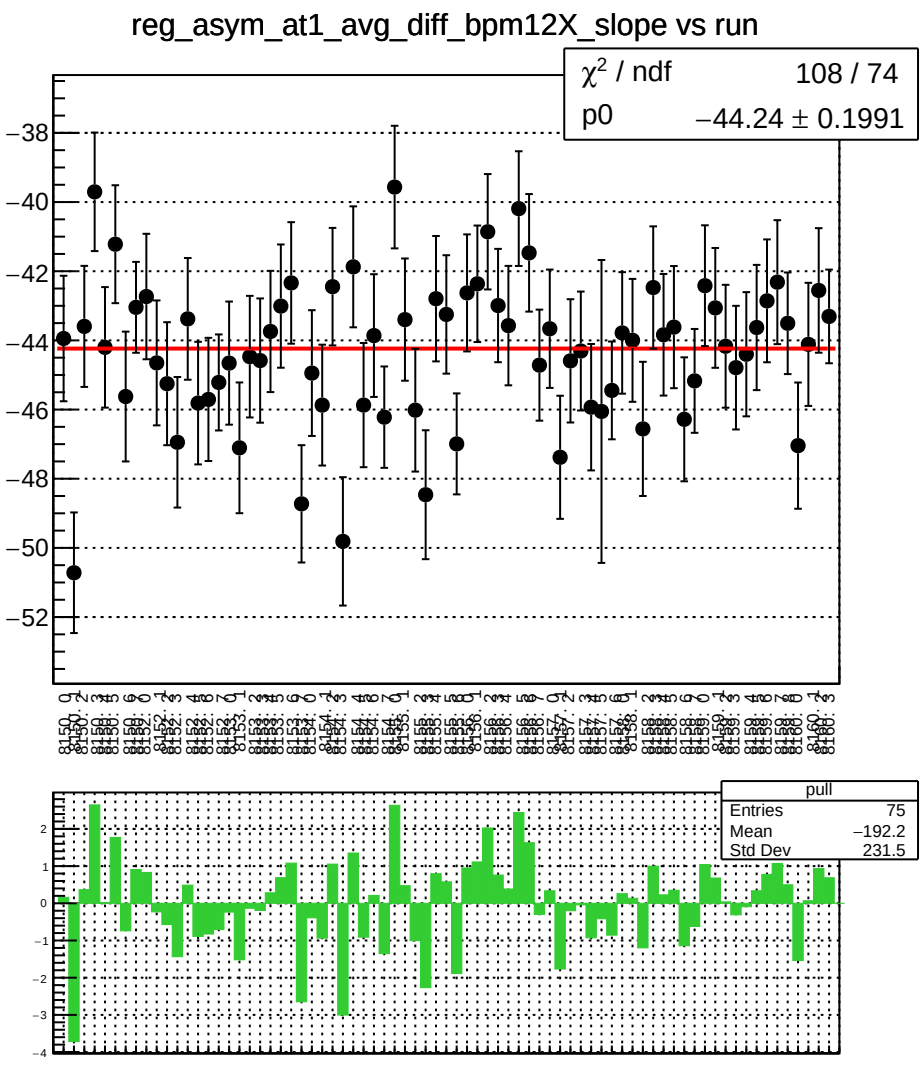

pull1D
Entries 75
Mean 0.0003544
Std Dev 0.7781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

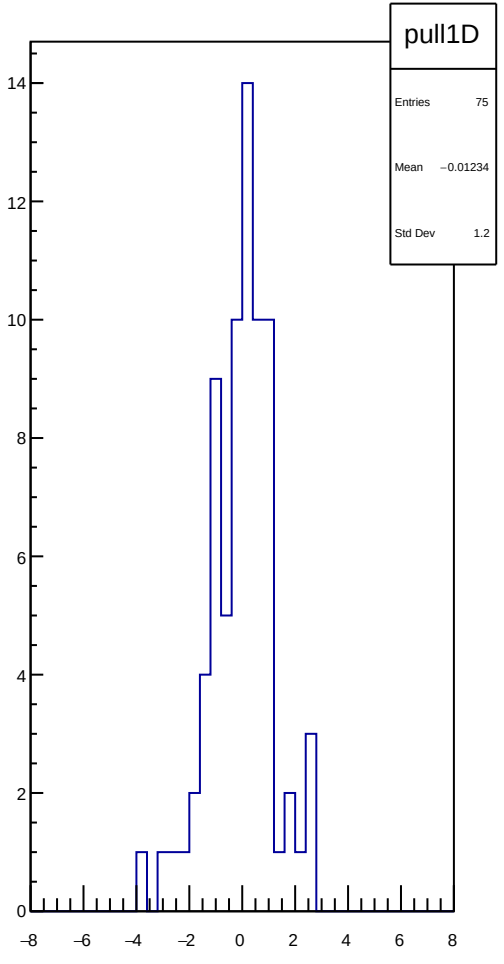

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.56 / 74
p0 59.3 ± 2.14
pull
Entries 75
Mean 199.3
Std Dev 150.5

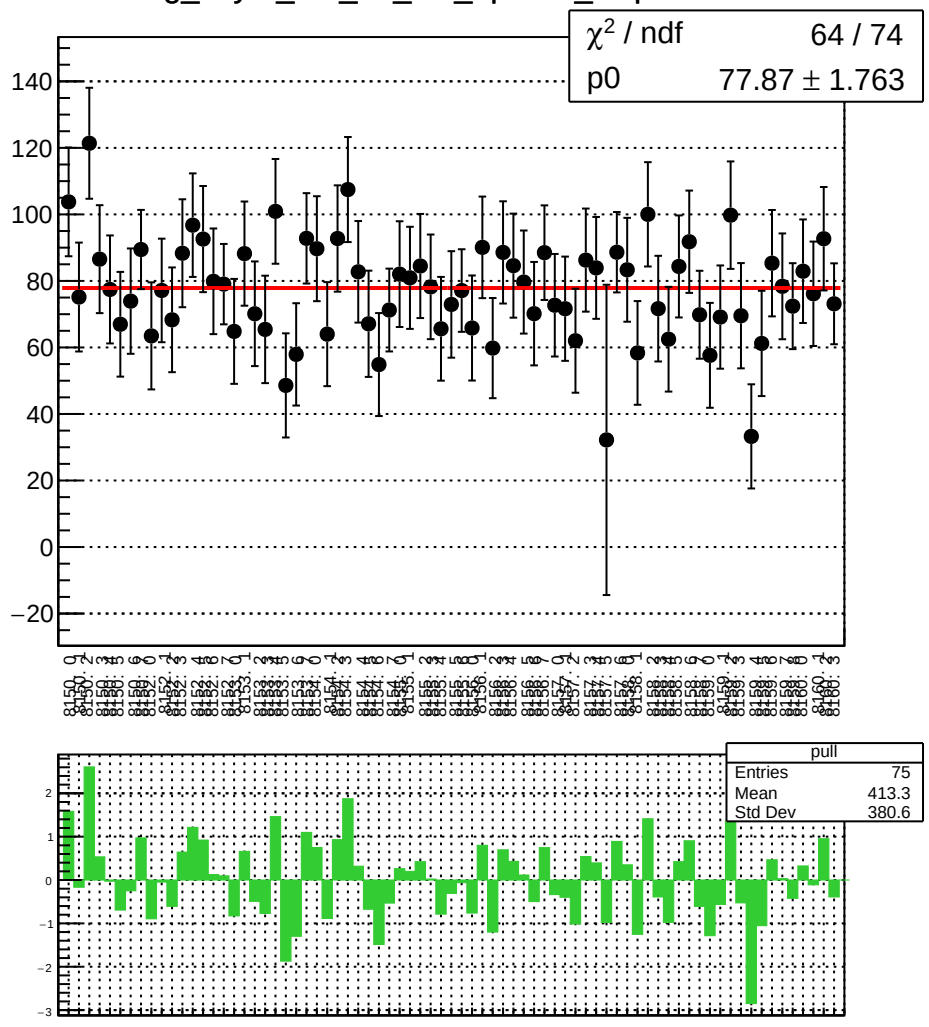

pull1D
Entries 75
Mean 0.01189
Std Dev 0.8835

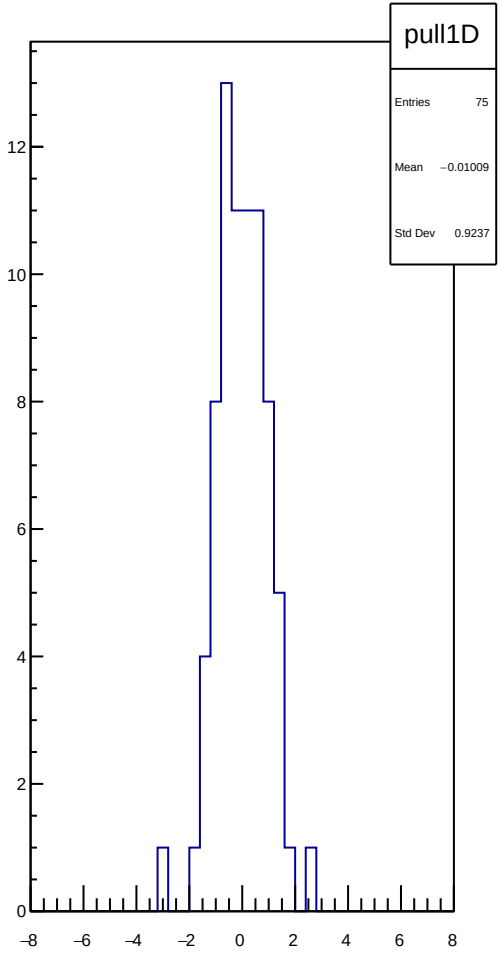

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 45.58 / 74
p0 −11.94 ± 4.246
pull
Entries 75
Mean −5782
Std Dev 5822

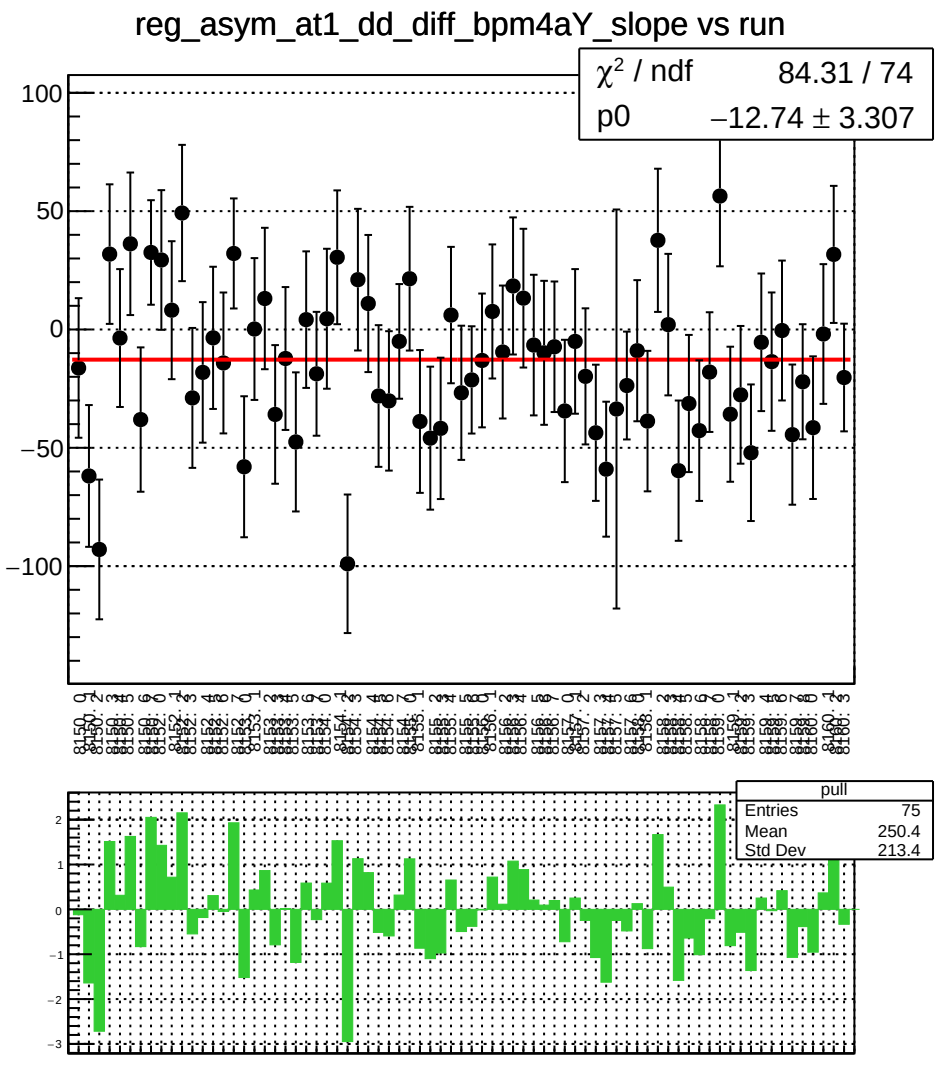

pull1D
Entries 75
Mean −0.0004924
Std Dev 0.7796

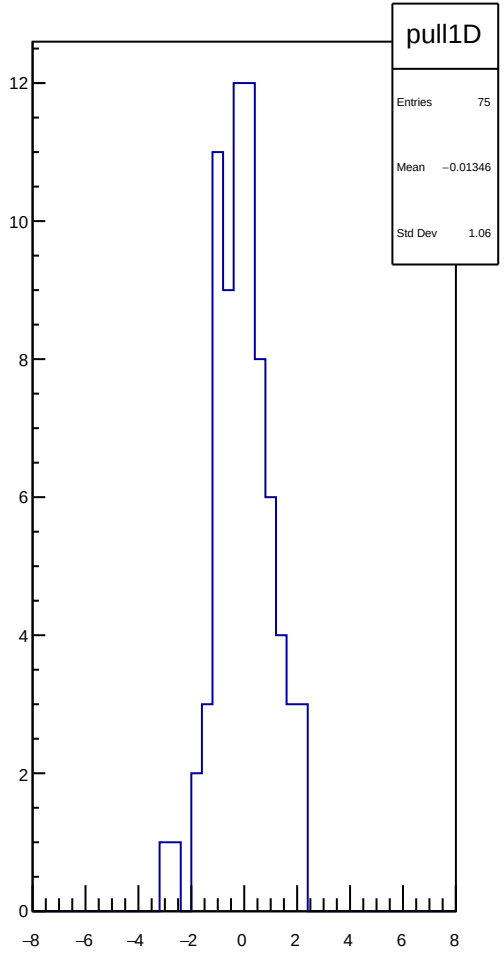

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 108 / 74
p0 −44.24 ± 0.1991
pull
Entries 75
Mean −192.2
Std Dev 231.5

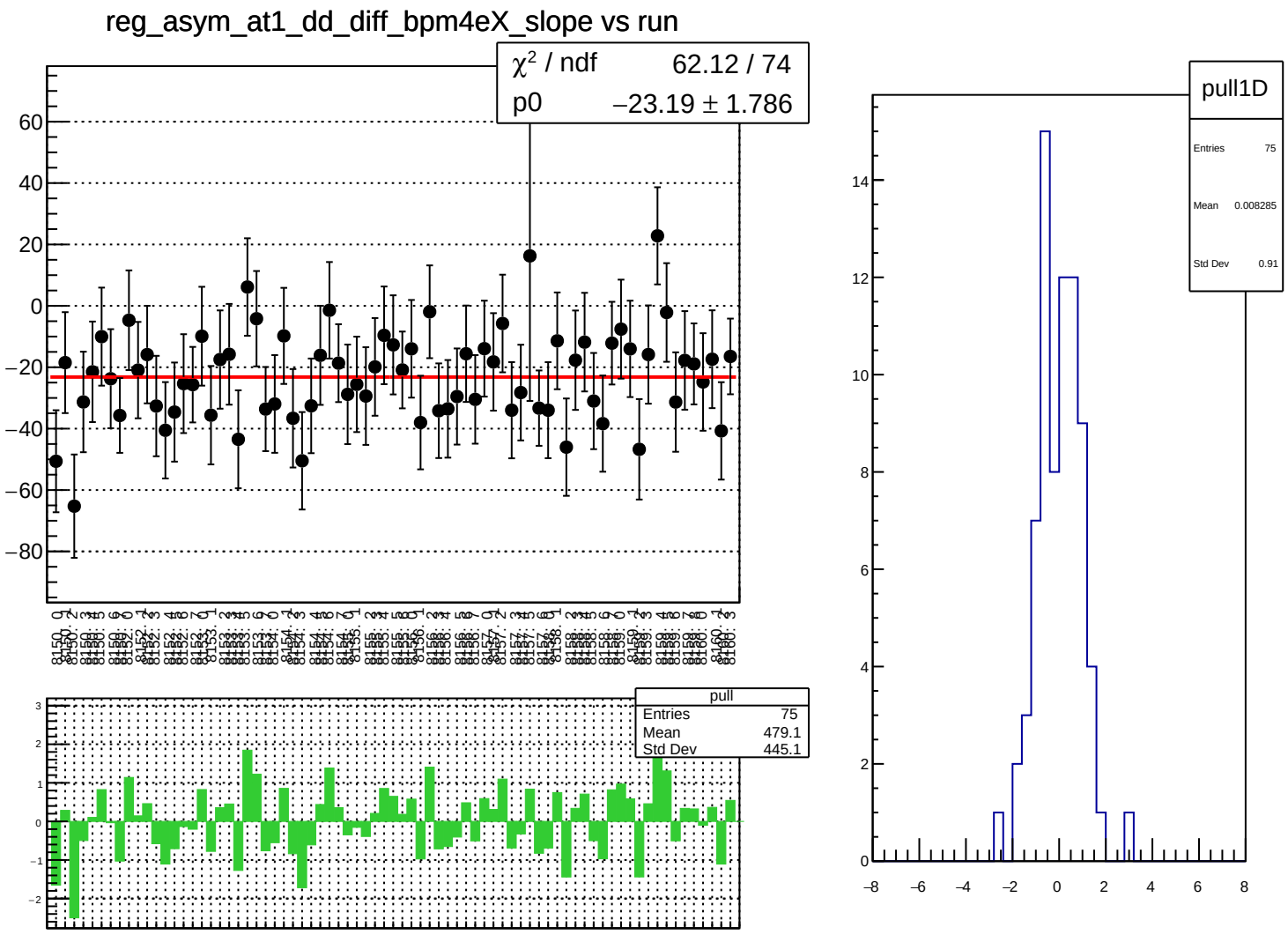

pull1D
Entries 75
Mean −0.01234
Std Dev 1.2

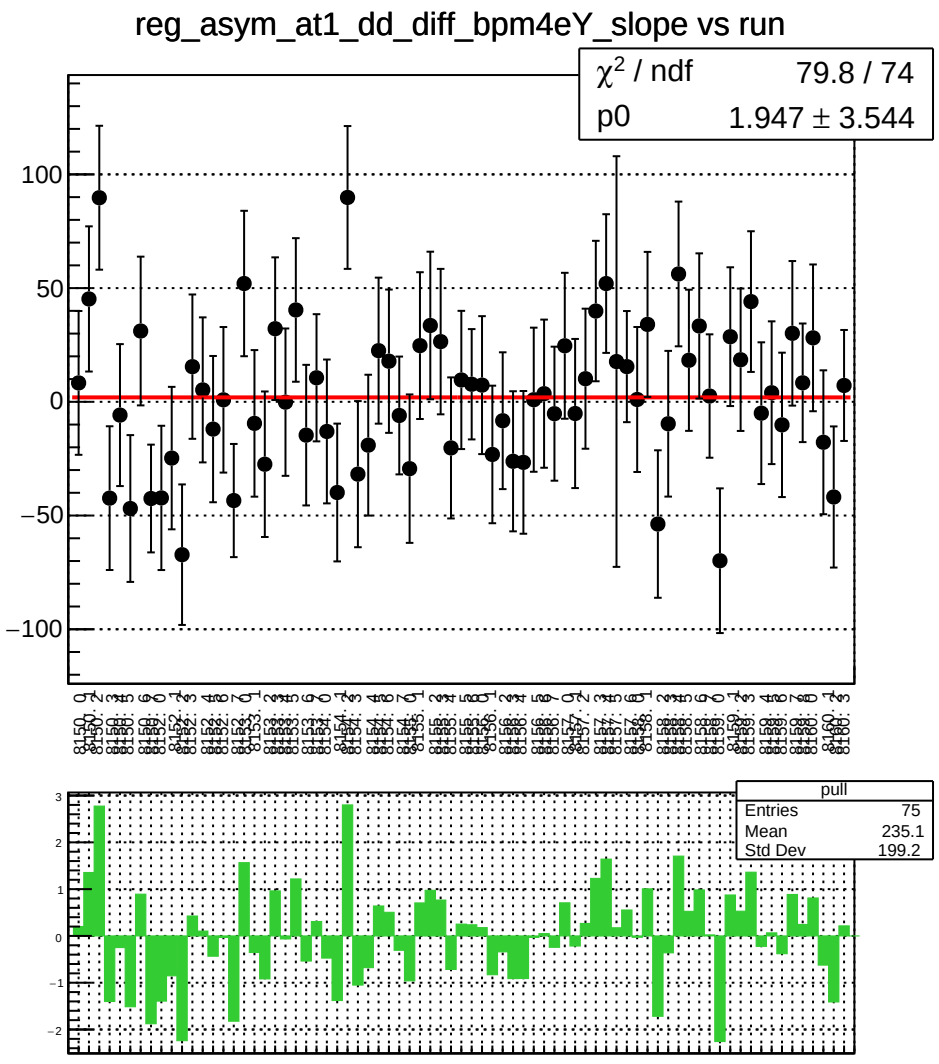

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 64 / 74
p0 77.87 ± 1.763
pull
Entries 75
Mean 413.3
Std Dev 380.6

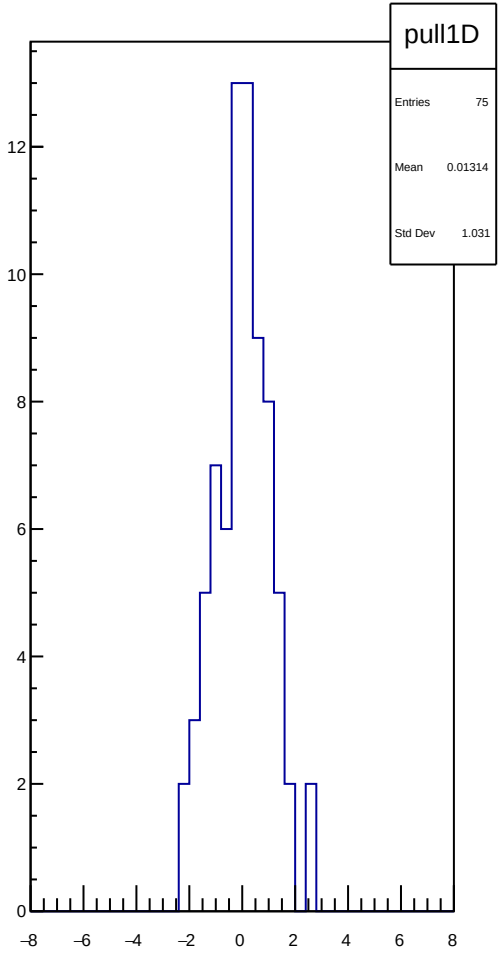

pull1D
Entries 75
Mean −0.01009
Std Dev 0.9237

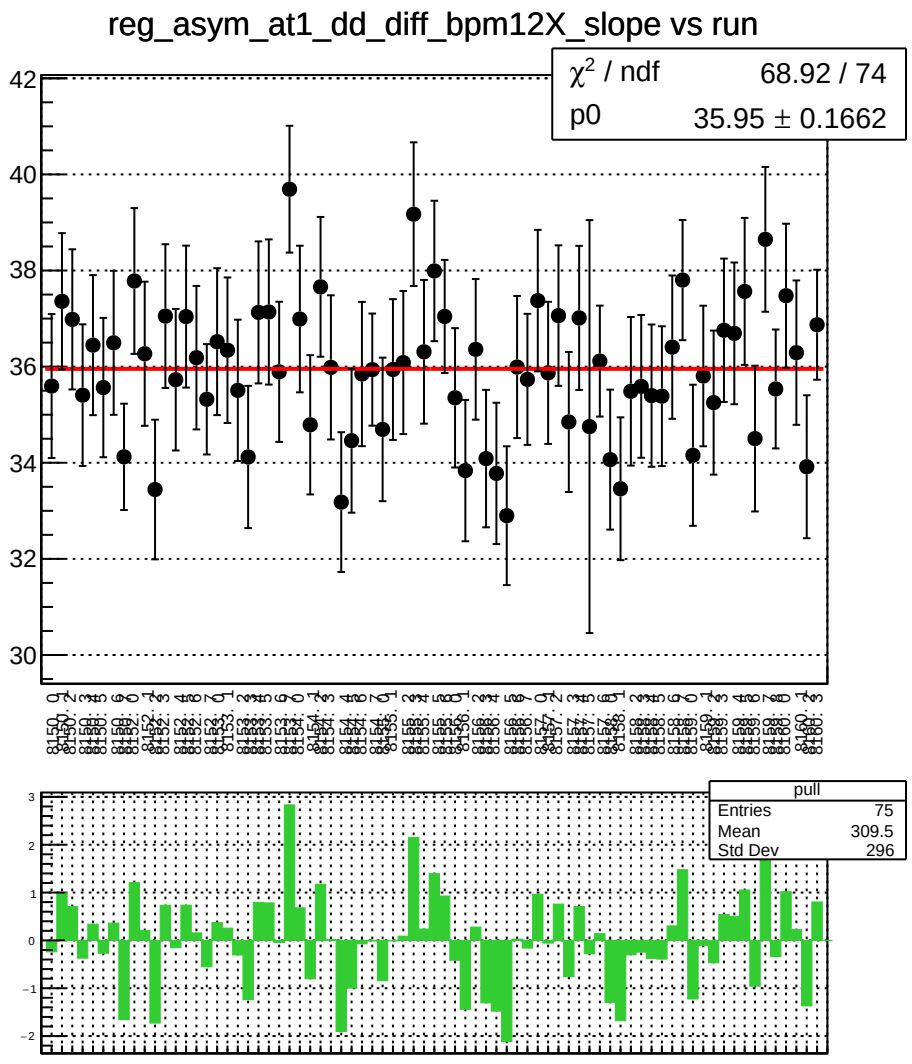

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.31 / 74
p0 −12.74 ± 3.307
100
50
0
−50
−100
pull
Entries 75
Mean 250.4
Std Dev 213.4
2
1
0
−1
−2
−3

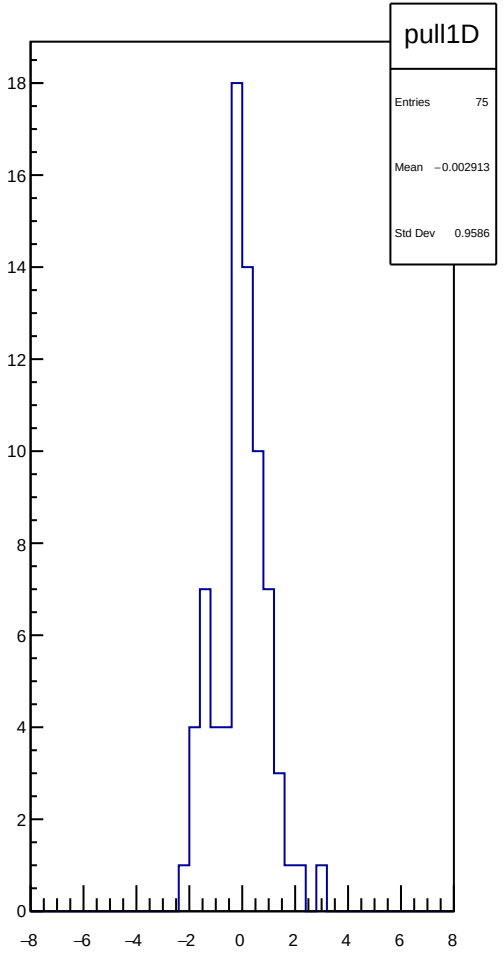

pull1D
Entries 75
Mean −0.01346
Std Dev 1.06
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

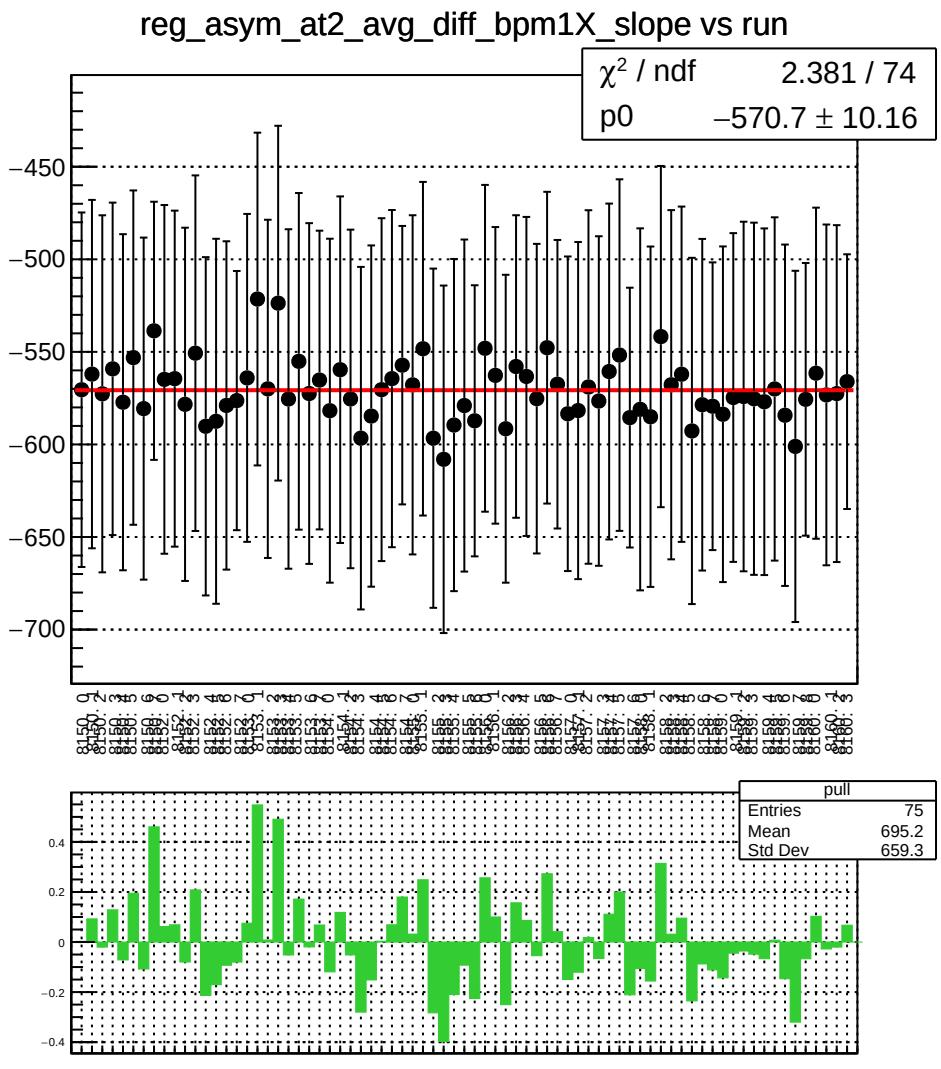

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.12 / 74
p0 −23.19 ± 1.786
pull
Entries 75
Mean 479.1
Std Dev 445.1
pull1D
Entries 75
Mean 0.008285
Std Dev 0.91

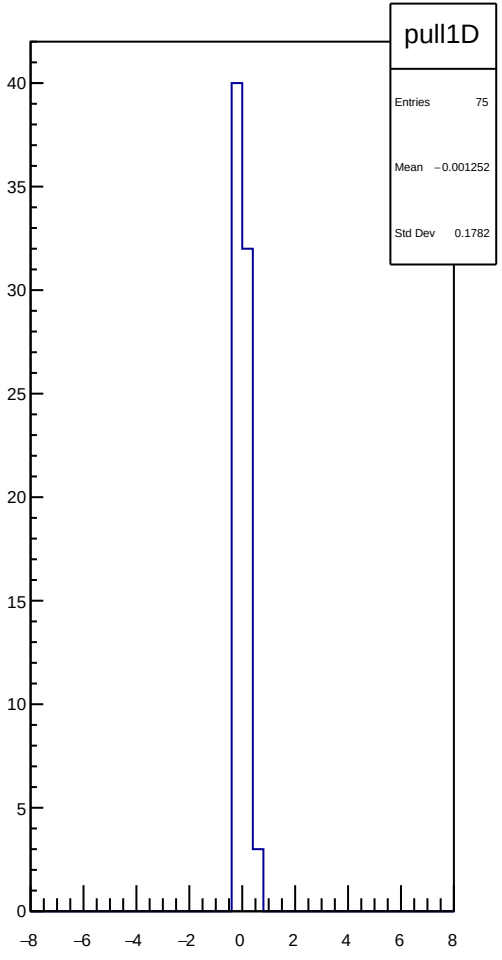

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.8 / 74
p0 1.947 ± 3.544
100
50
0
−50
−100
pull
Entries 75
Mean 235.1
Std Dev 199.2
3
2
1
0
−1
−2

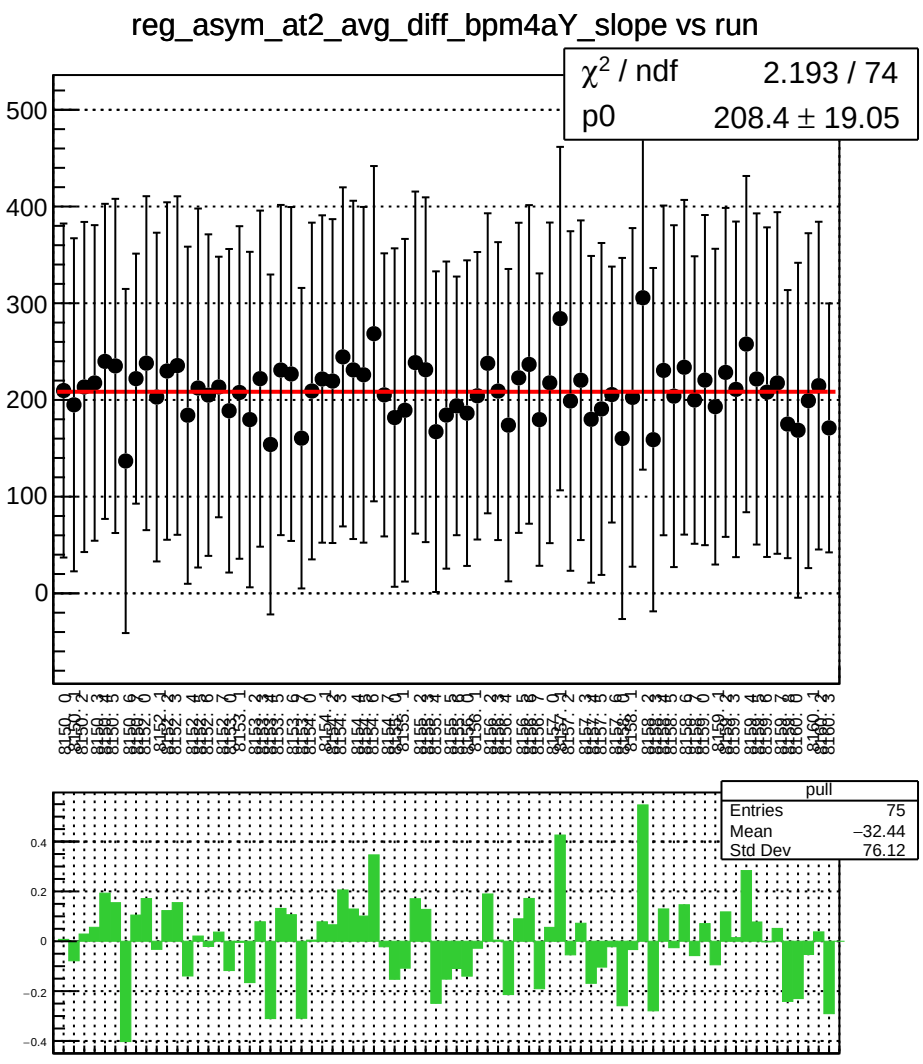

pull1D
Entries 75
Mean 0.01314
Std Dev 1.031
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

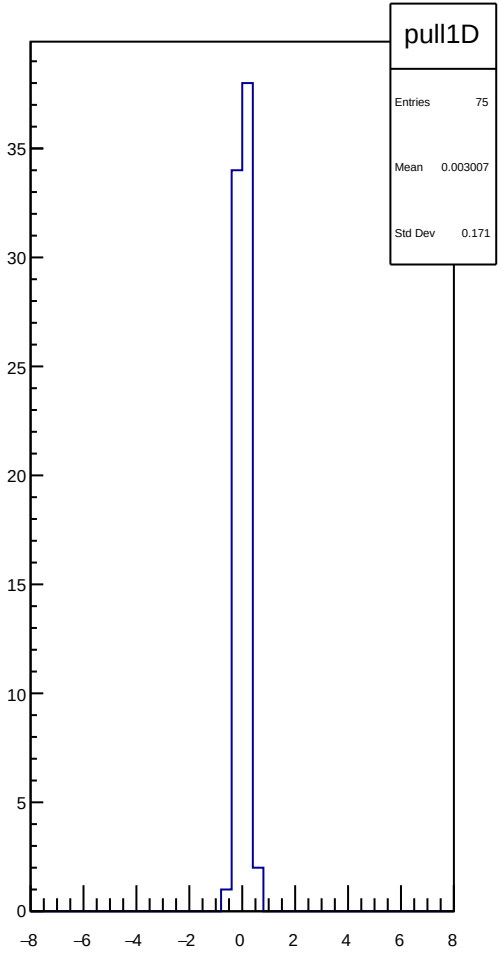

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 68.92 / 74
p0 35.95 ± 0.1662
pull
Entries 75
Mean 309.5
Std Dev 296

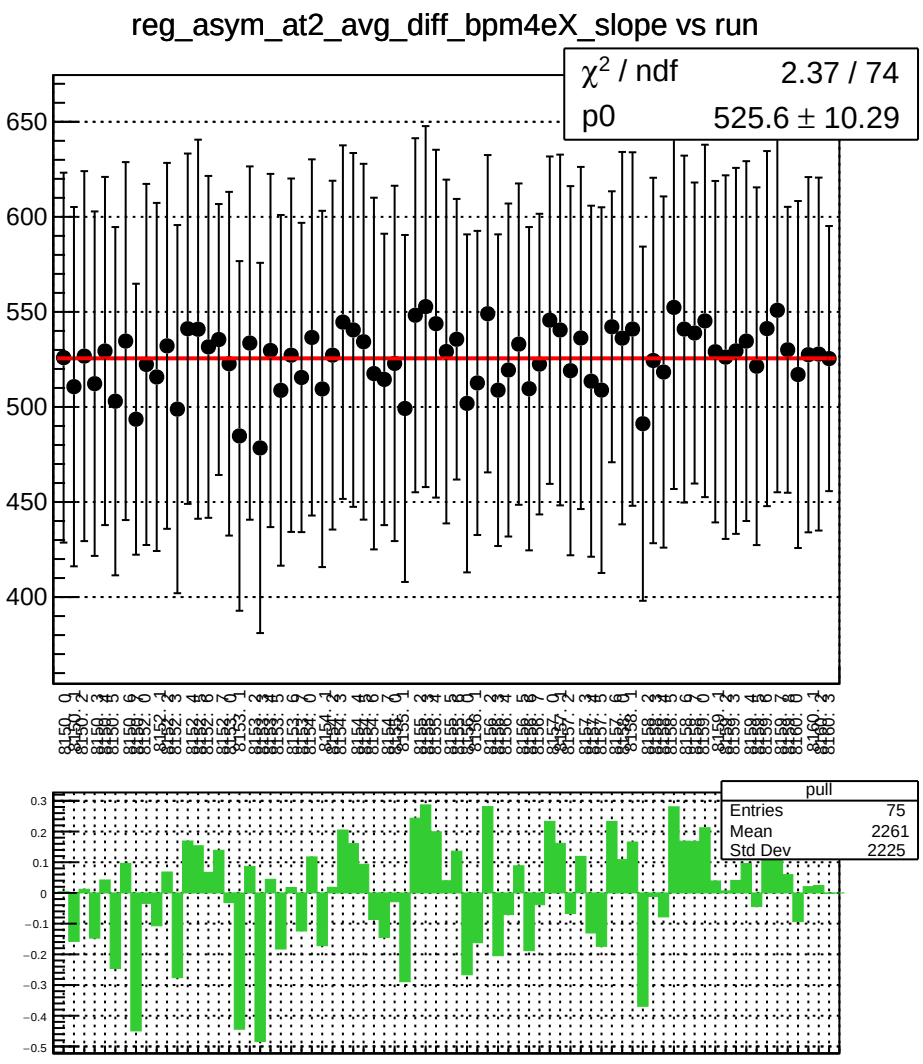

pull1D
Entries 75
Mean −0.002913
Std Dev 0.9586

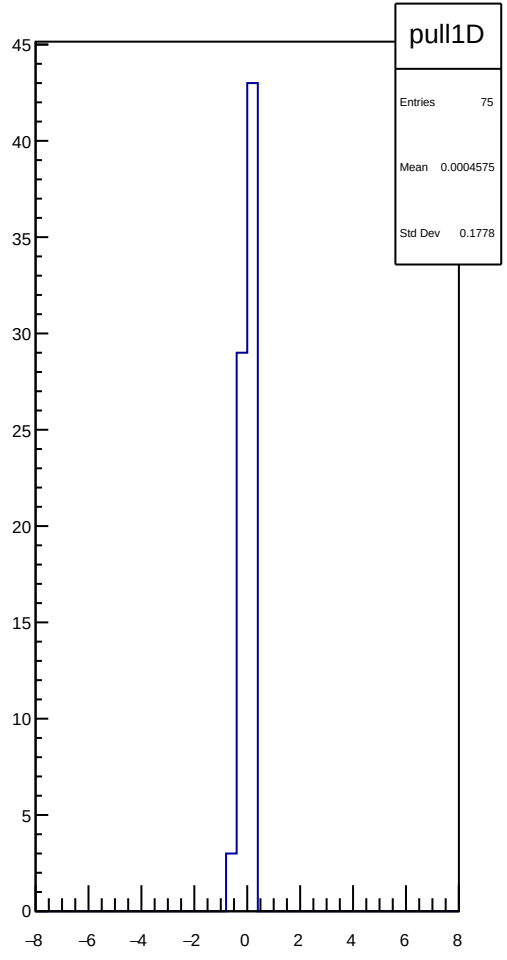

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 2.381 / 74
p0 −570.7 ± 10.16
pull
Entries 75
Mean 695.2
Std Dev 659.3

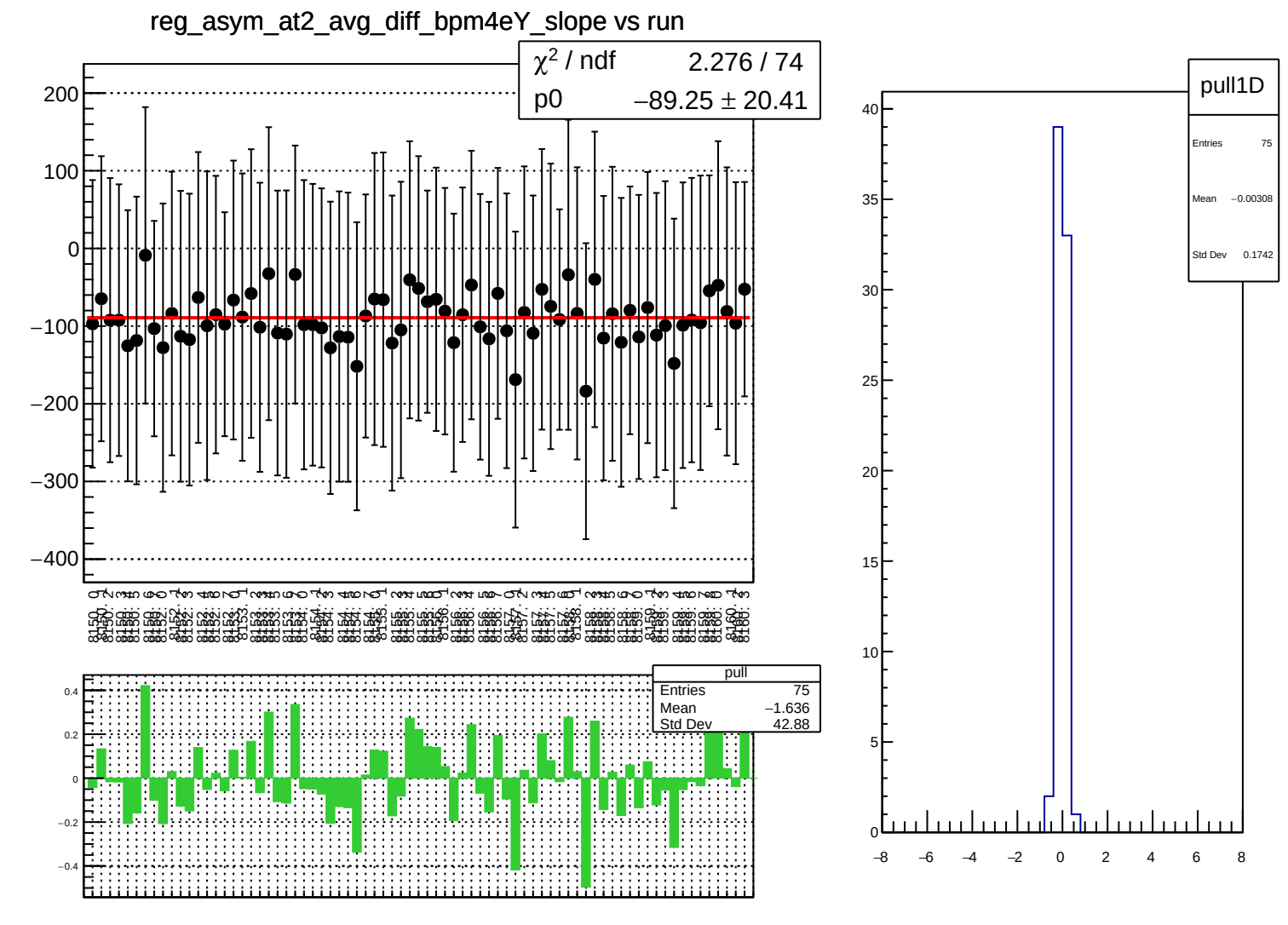

pull1D
Entries 75
Mean −0.001252
Std Dev 0.1782

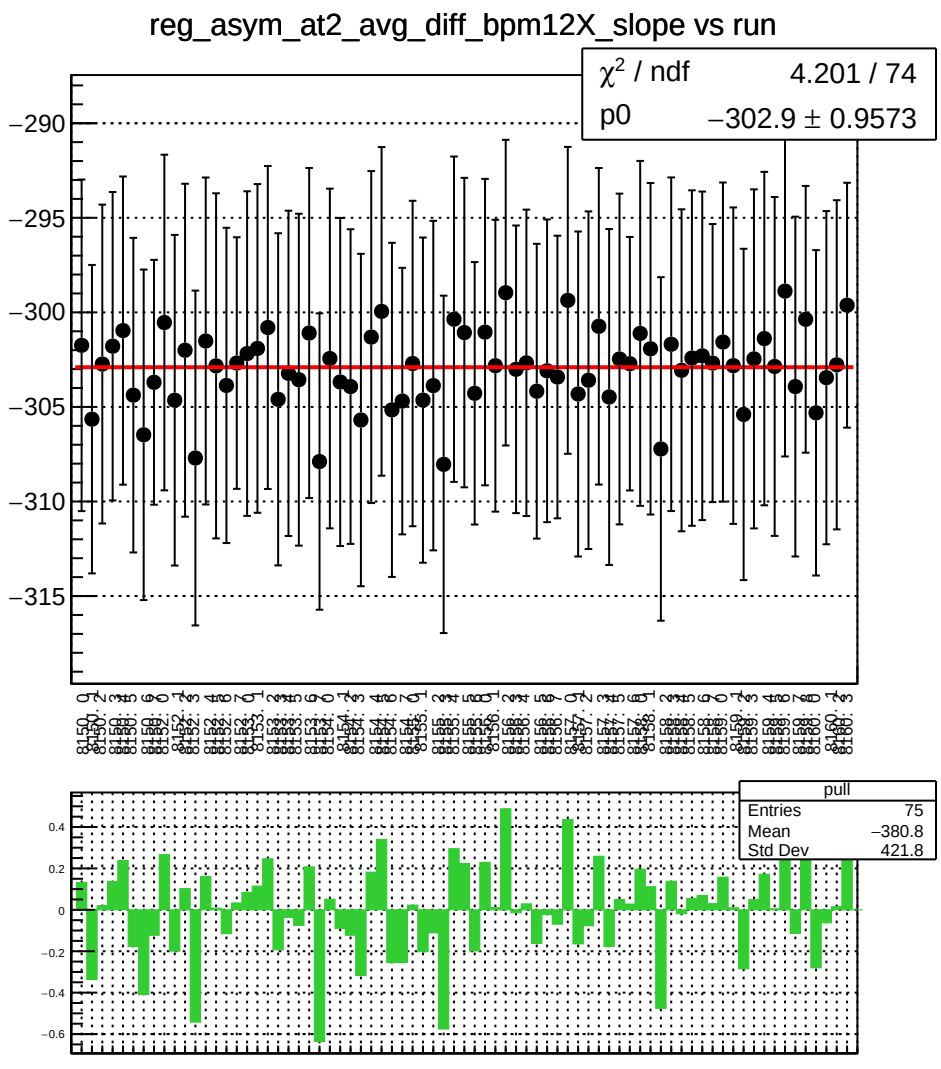

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.193 / 74
p0 208.4 ± 19.05
pull
Entries 75
Mean −32.44
Std Dev 76.12

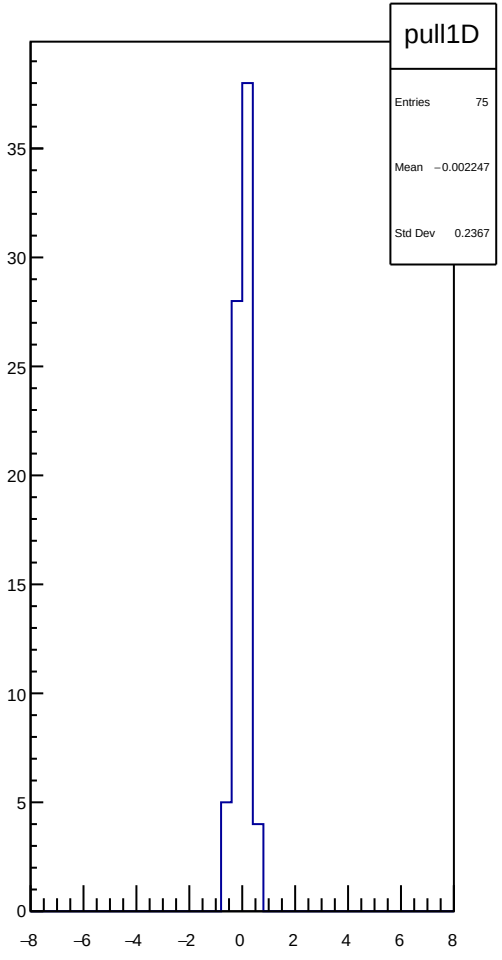

pull1D
Entries 75
Mean 0.003007
Std Dev 0.171

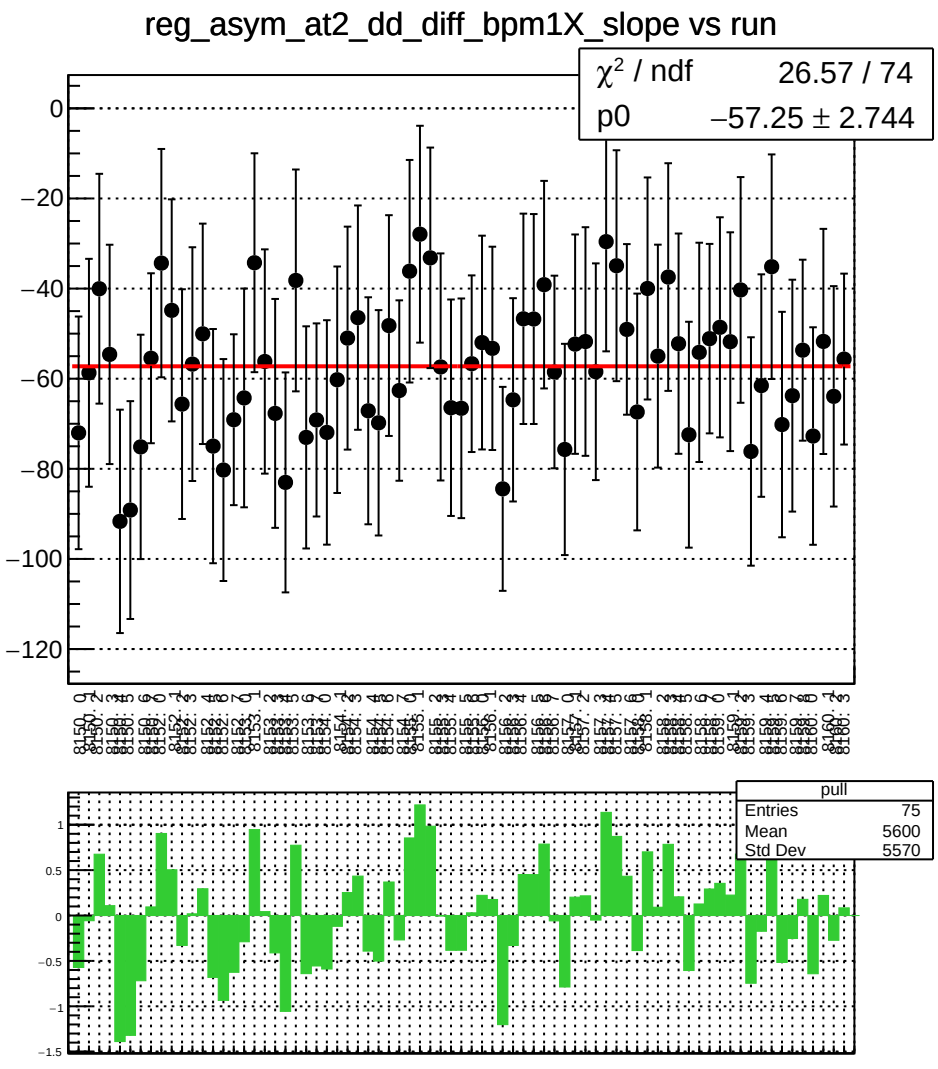

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.37 / 74
p0 525.6 ± 10.29
650
600
550
500
450
400
pull
Entries 75
Mean 2261
Std Dev 2225
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

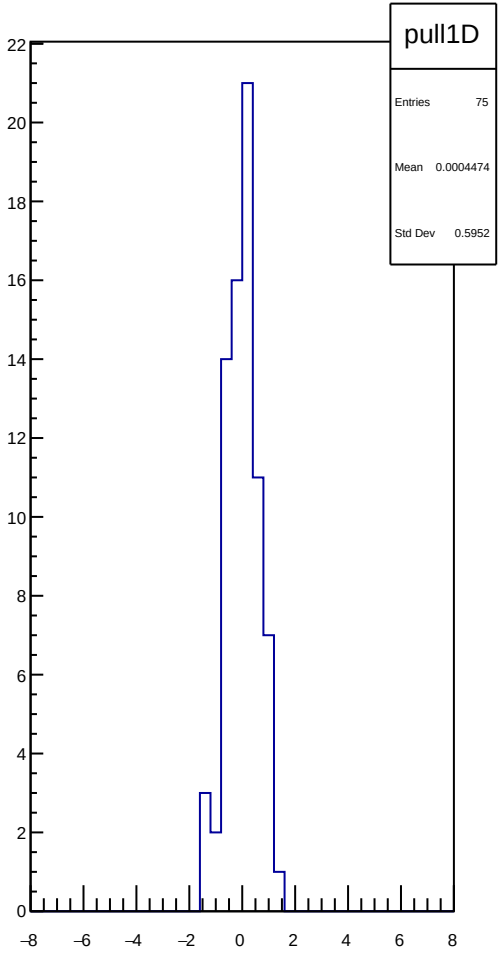

pull1D
Entries 75
Mean 0.0004575
Std Dev 0.1778
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

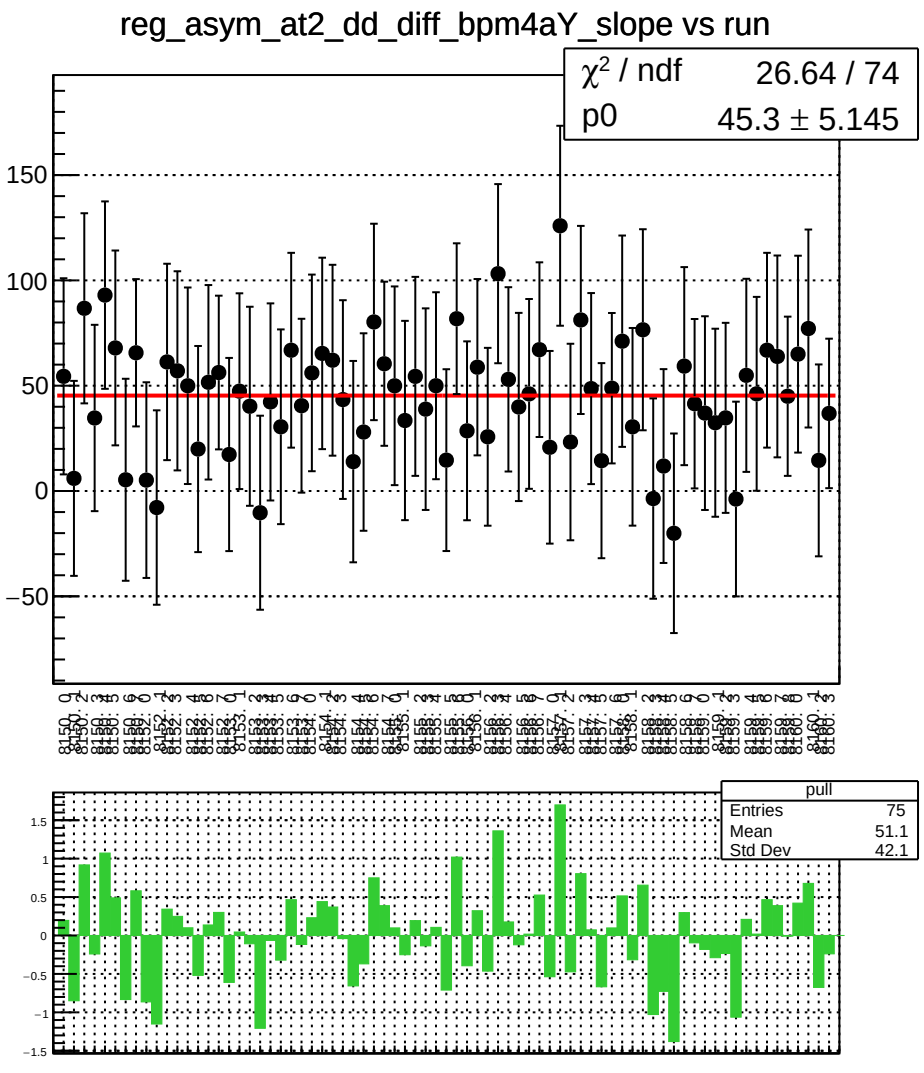

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.276 / 74
p0 −89.25 ± 20.41
pull
Entries 75
Mean −1.636
Std Dev 42.88
pull1D
Entries 75
Mean −0.00308
Std Dev 0.1742

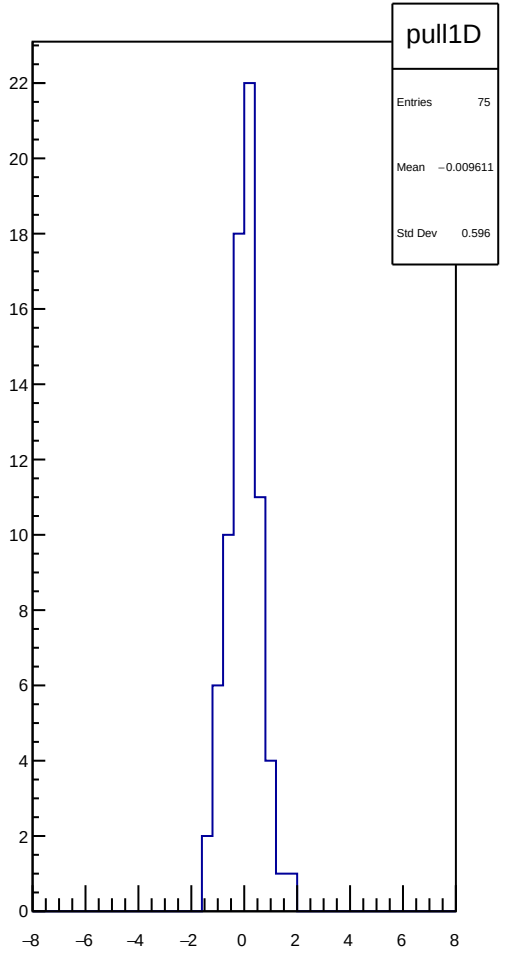

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 4.201 / 74
p0 −302.9 ± 0.9573
−290
−295
−300
−305
−310
−315
pull
Entries 75
Mean −380.8
Std Dev 421.8
0.4
0.2
0
−0.2
−0.4
−0.6

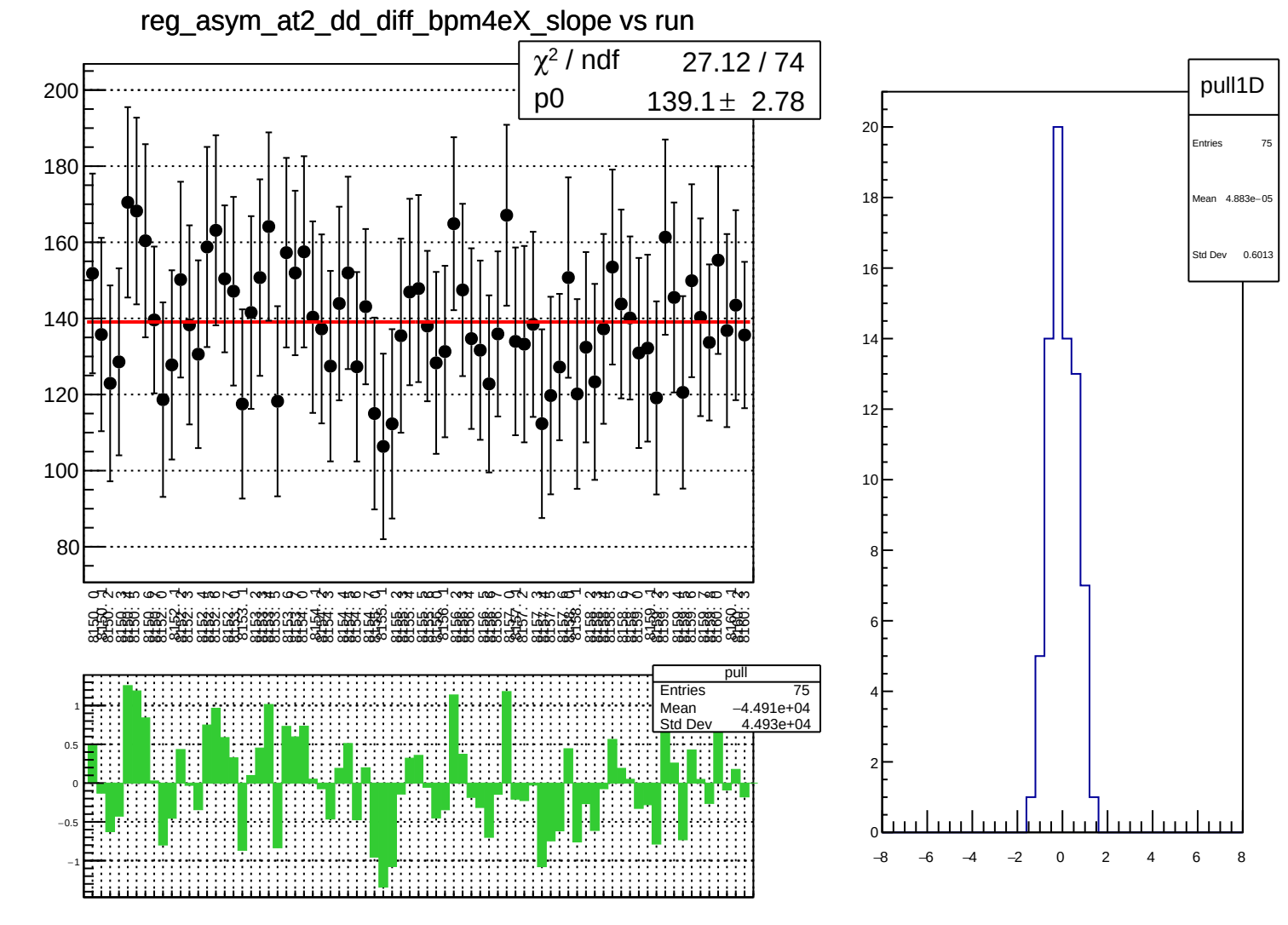

pull1D
Entries 75
Mean −0.002247
Std Dev 0.2367
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

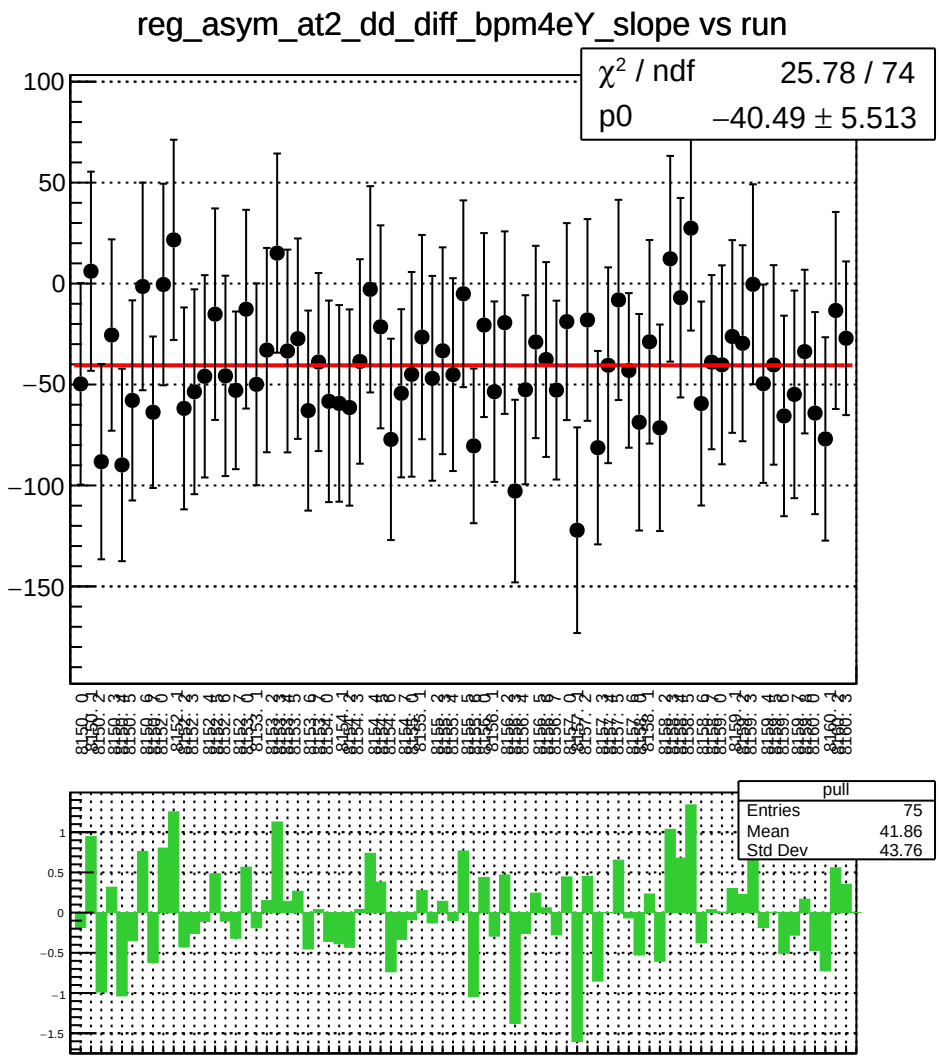

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 26.57 / 74
p0 −57.25 ± 2.744
pull
Entries 75
Mean 5600
Std Dev 5570

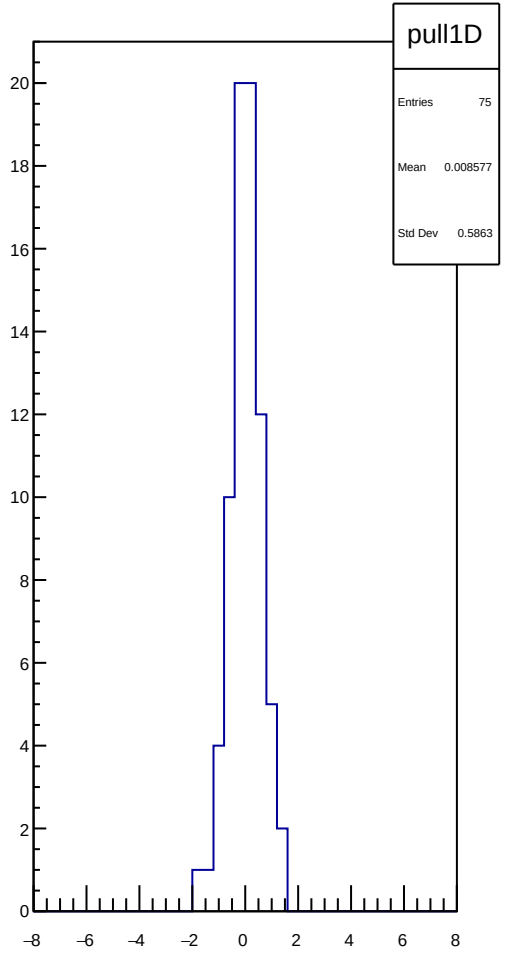

pull1D
Entries 75
Mean 0.0004474
Std Dev 0.5952

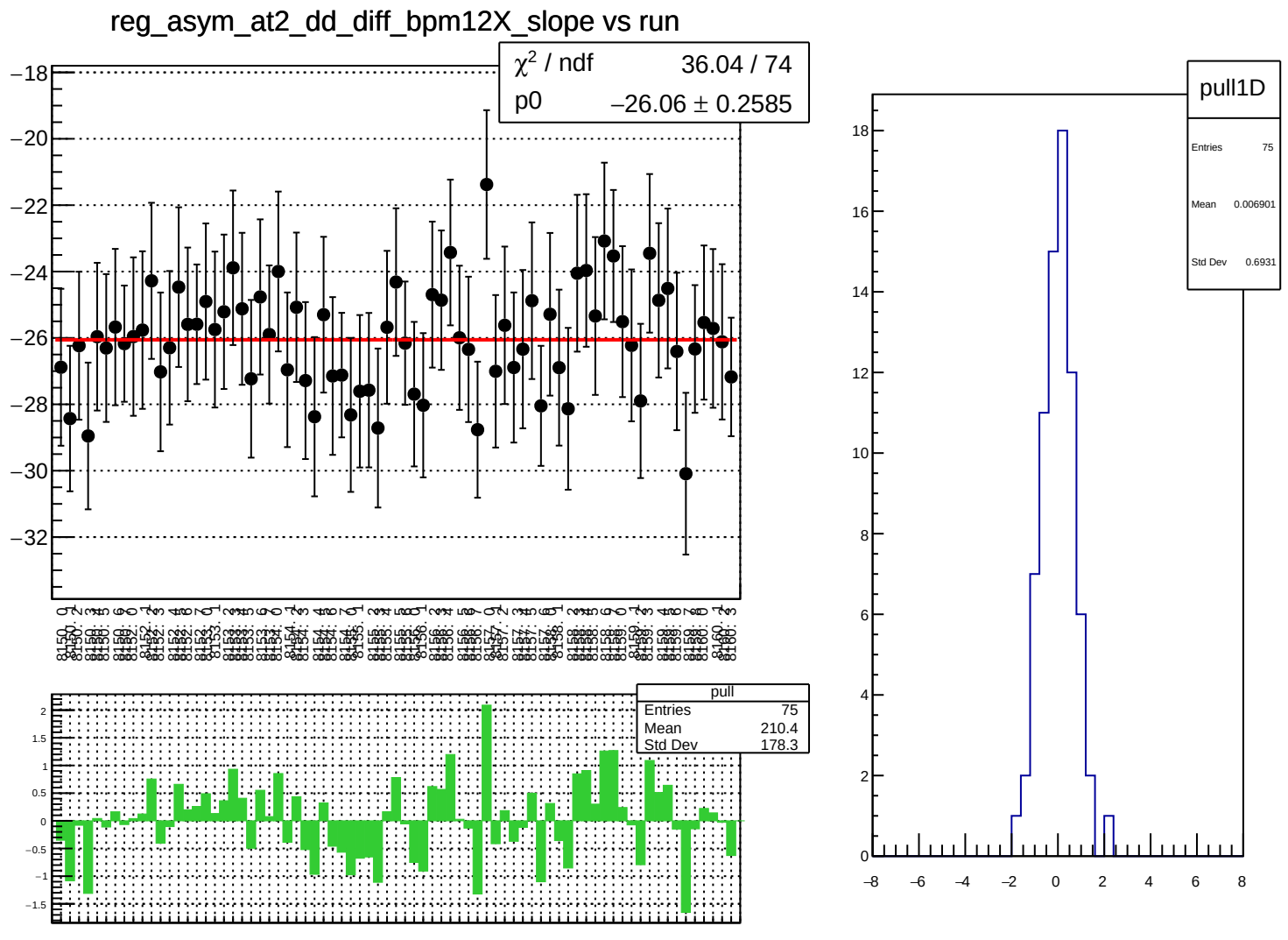

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.64 / 74
p0 45.3 ± 5.145
150
100
50
0
−50
pull
Entries 75
Mean 51.1
Std Dev 42.1
1.5
1
0.5
0
−0.5
−1
−1.5

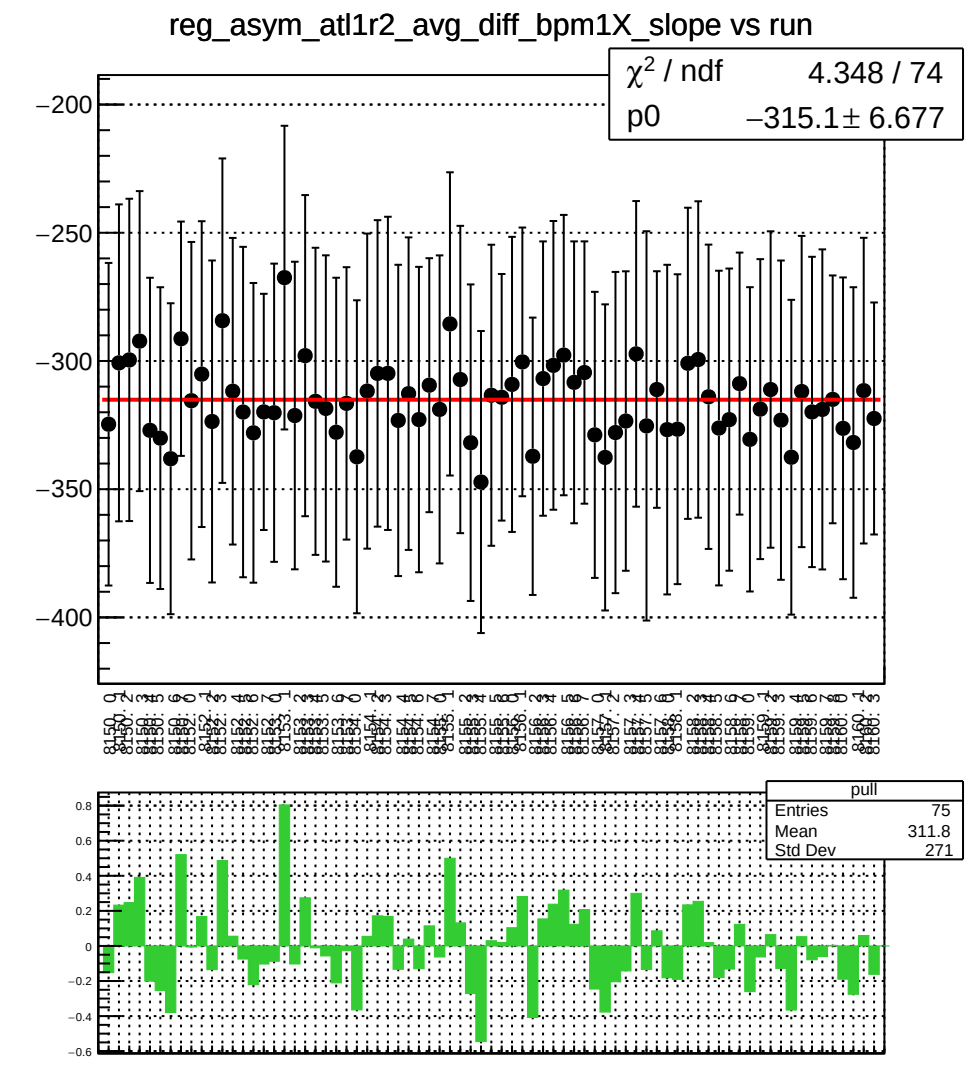

pull1D
Entries 75
Mean −0.009611
Std Dev 0.596
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

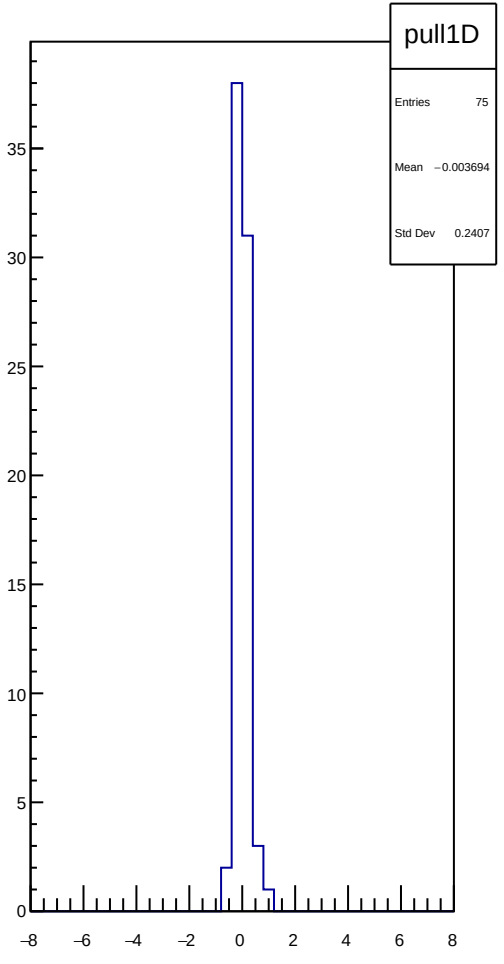

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.12 / 74
p0 139.1 ± 2.78
pull
Entries 75
Mean −4.491e+04
Std Dev 4.493e+04
pull1D
Entries 75
Mean 4.883e−05
Std Dev 0.6013

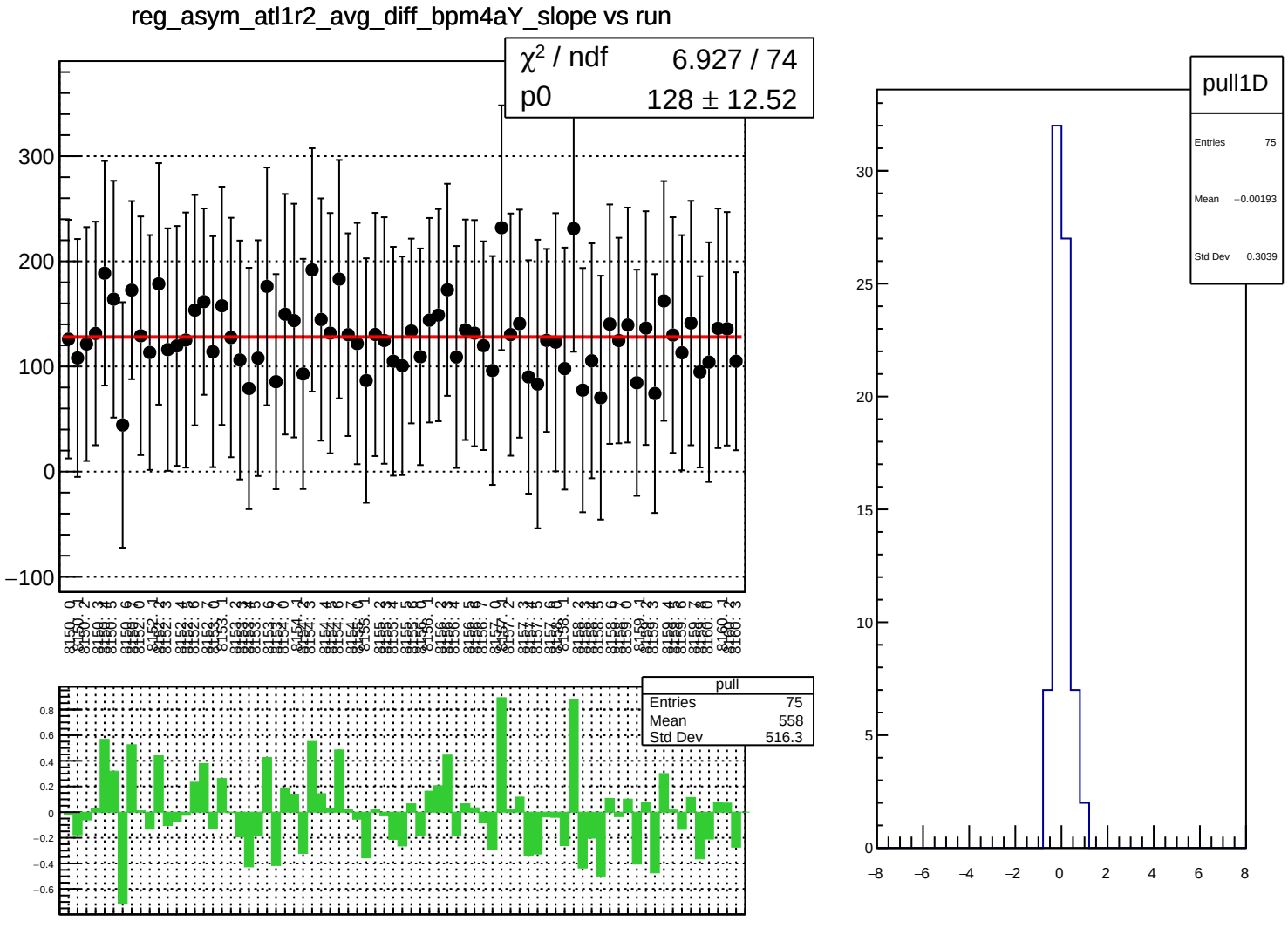

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.78 / 74
p0 −40.49 ± 5.513
pull
Entries 75
Mean 41.86
Std Dev 43.76

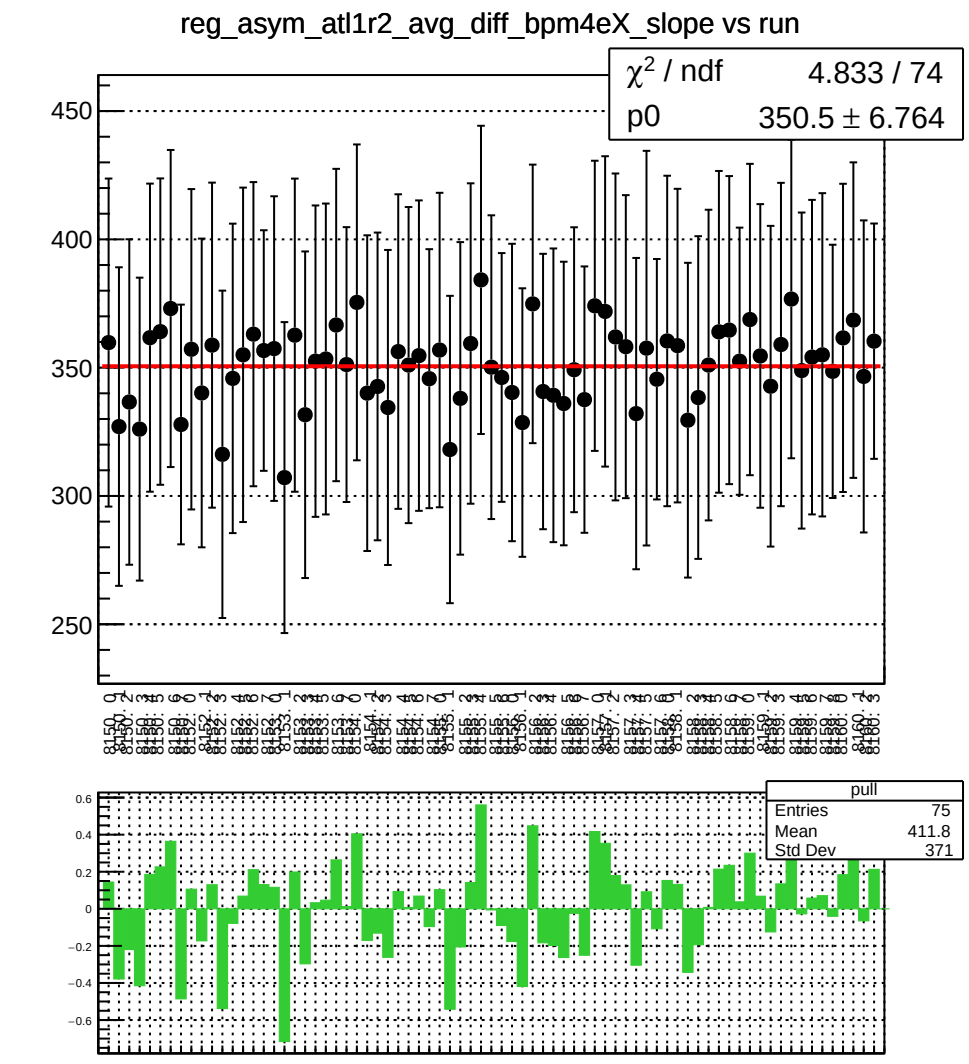

pull1D
Entries 75
Mean 0.008577
Std Dev 0.5863

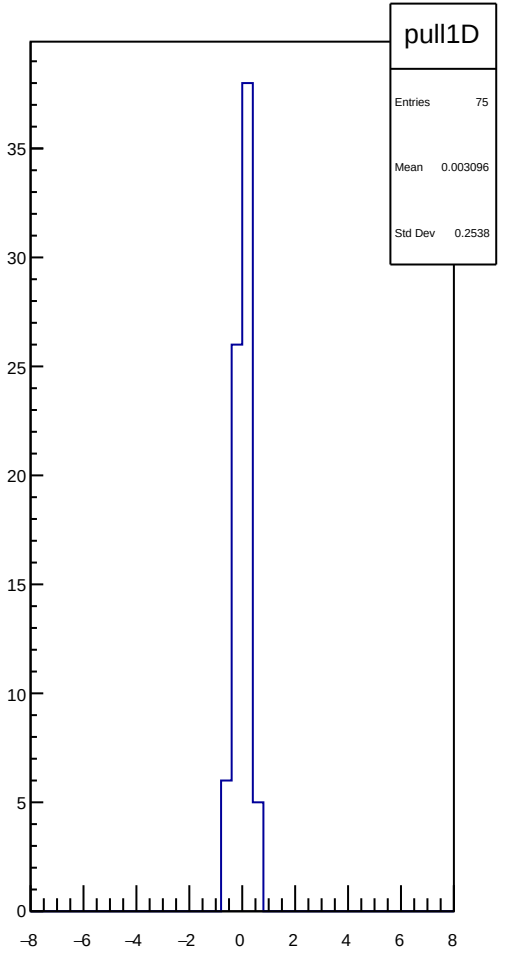

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 36.04 / 74
p0 −26.06 ± 0.2585
pull
Entries 75
Mean 210.4
Std Dev 178.3
pull1D
Entries 75
Mean 0.006901
Std Dev 0.6931

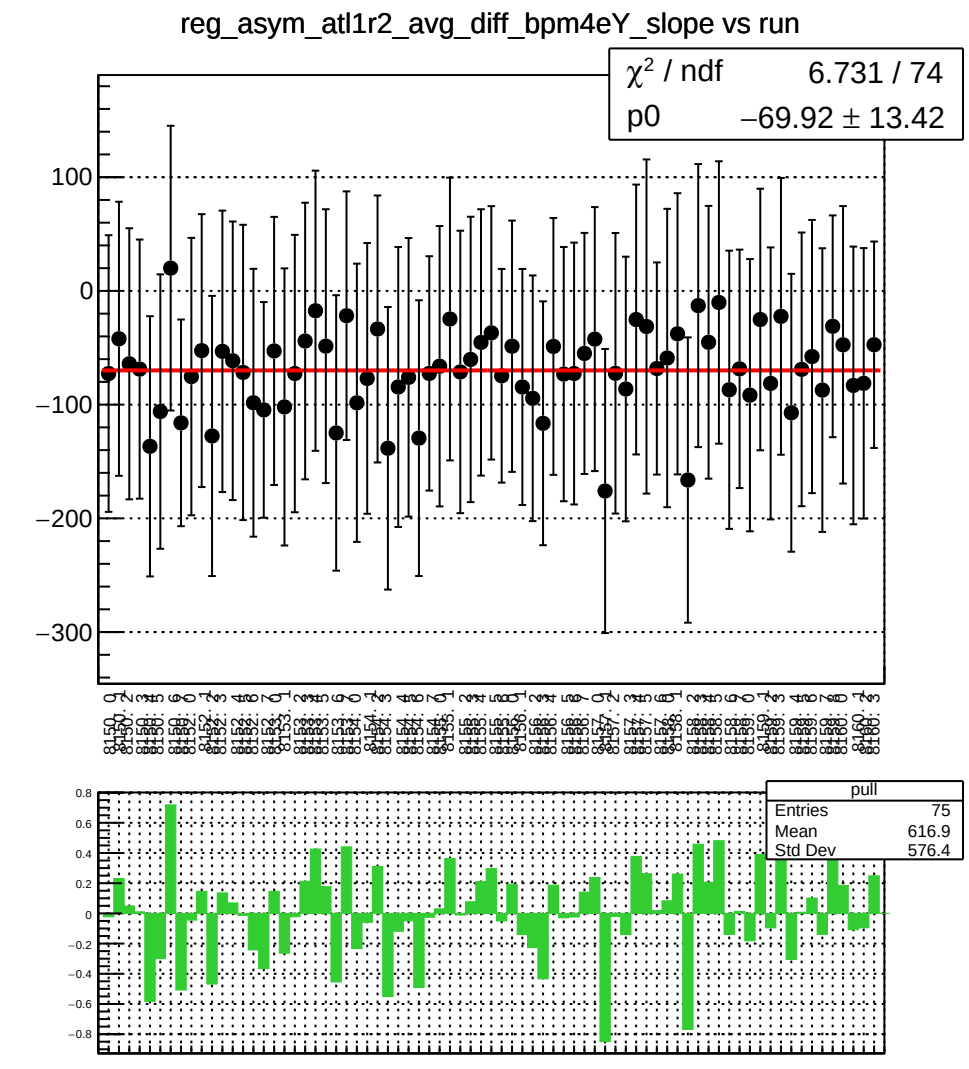

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 4.348 / 74
p0 −315.1 ± 6.677
pull
Entries 75
Mean 311.8
Std Dev 271

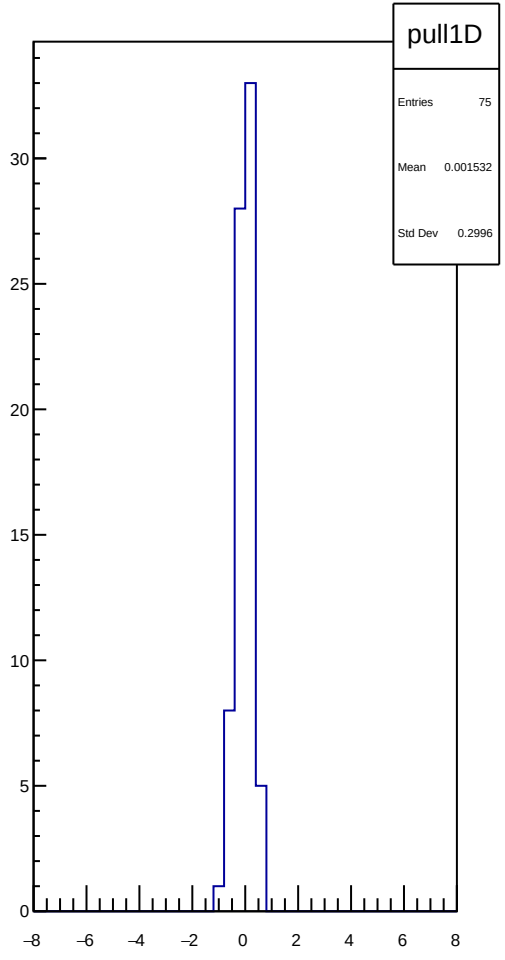

pull1D
Entries 75
Mean −0.003694
Std Dev 0.2407

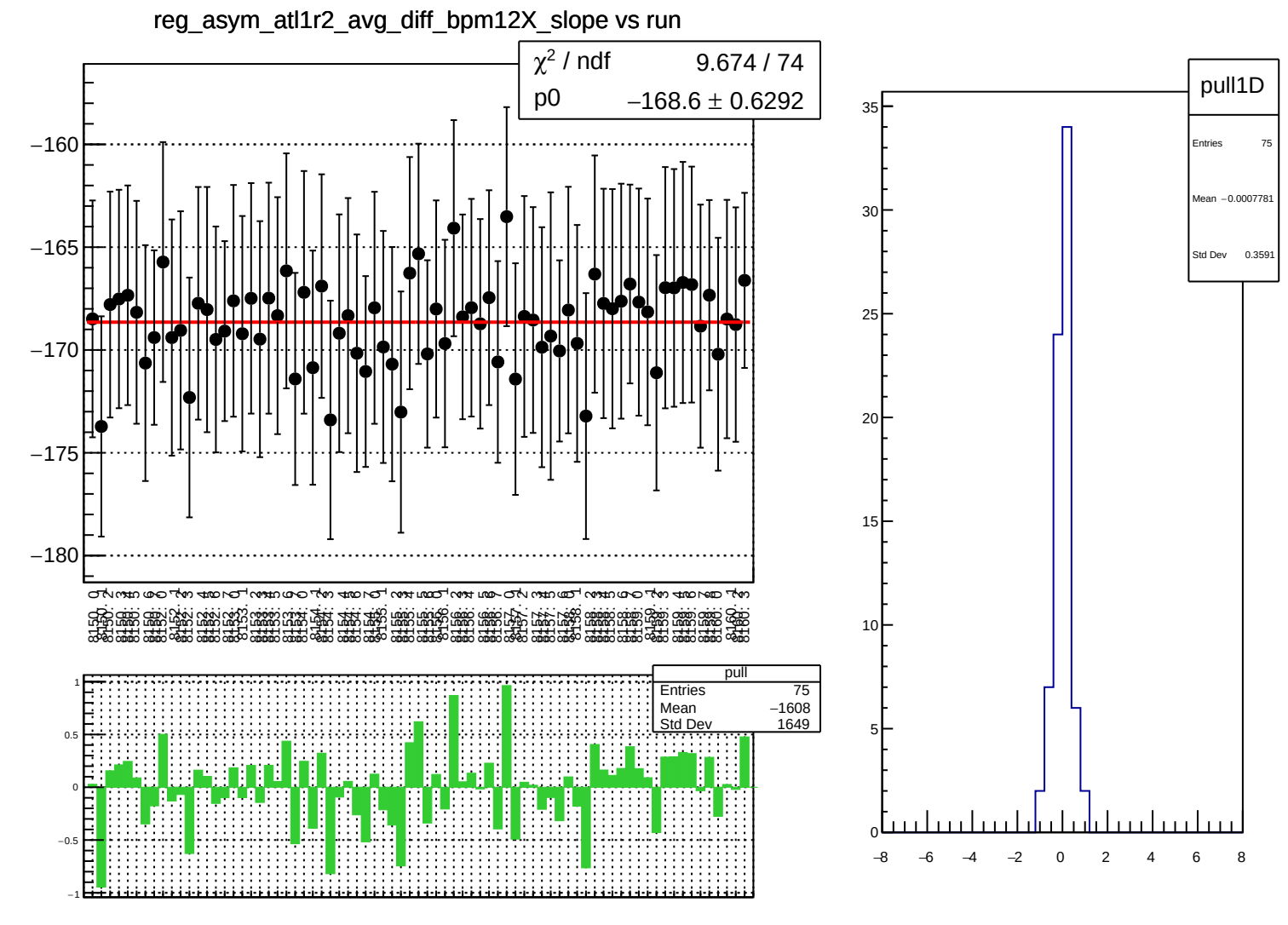

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.927 / 74
p0 128 ± 12.52
pull
Entries 75
Mean 558
Std Dev 516.3
pull1D
Entries 75
Mean −0.00193
Std Dev 0.3039

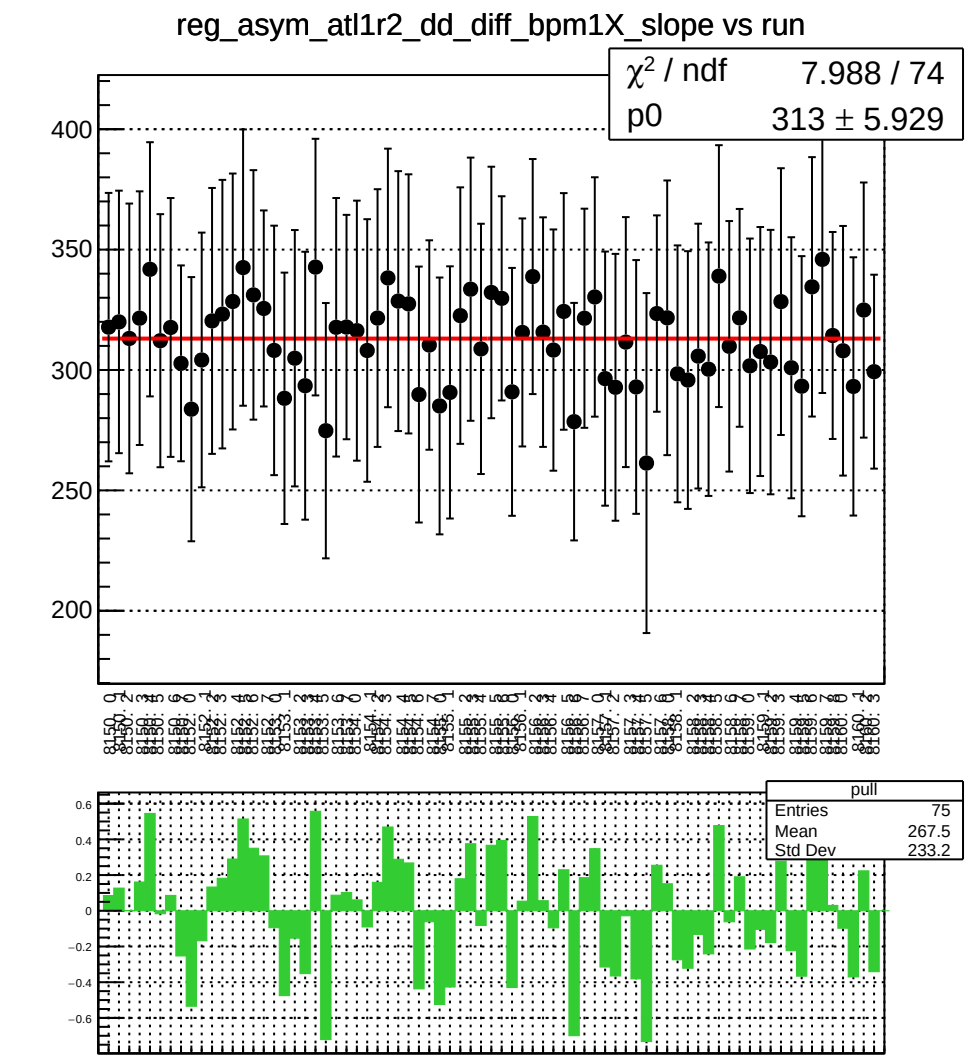

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.833 / 74
p0 350.5 ± 6.764
pull
Entries 75
Mean 411.8
Std Dev 371

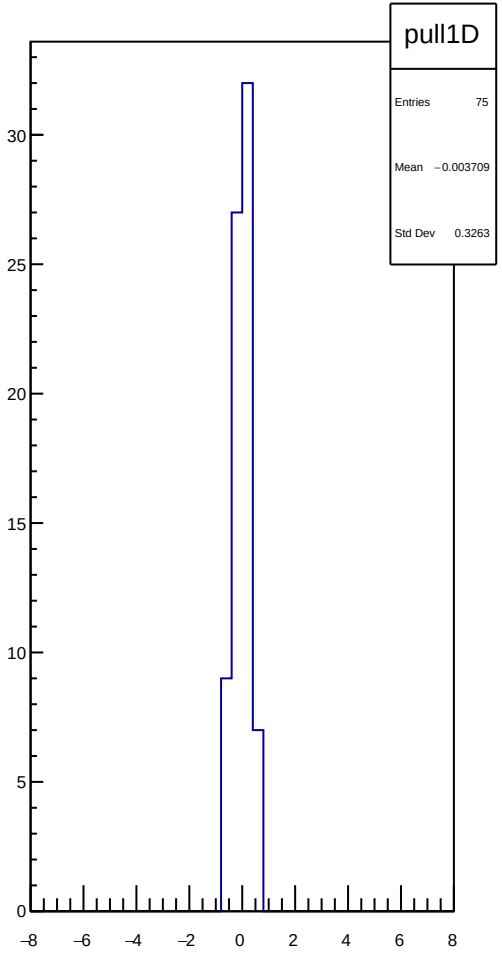

pull1D
Entries 75
Mean 0.003096
Std Dev 0.2538

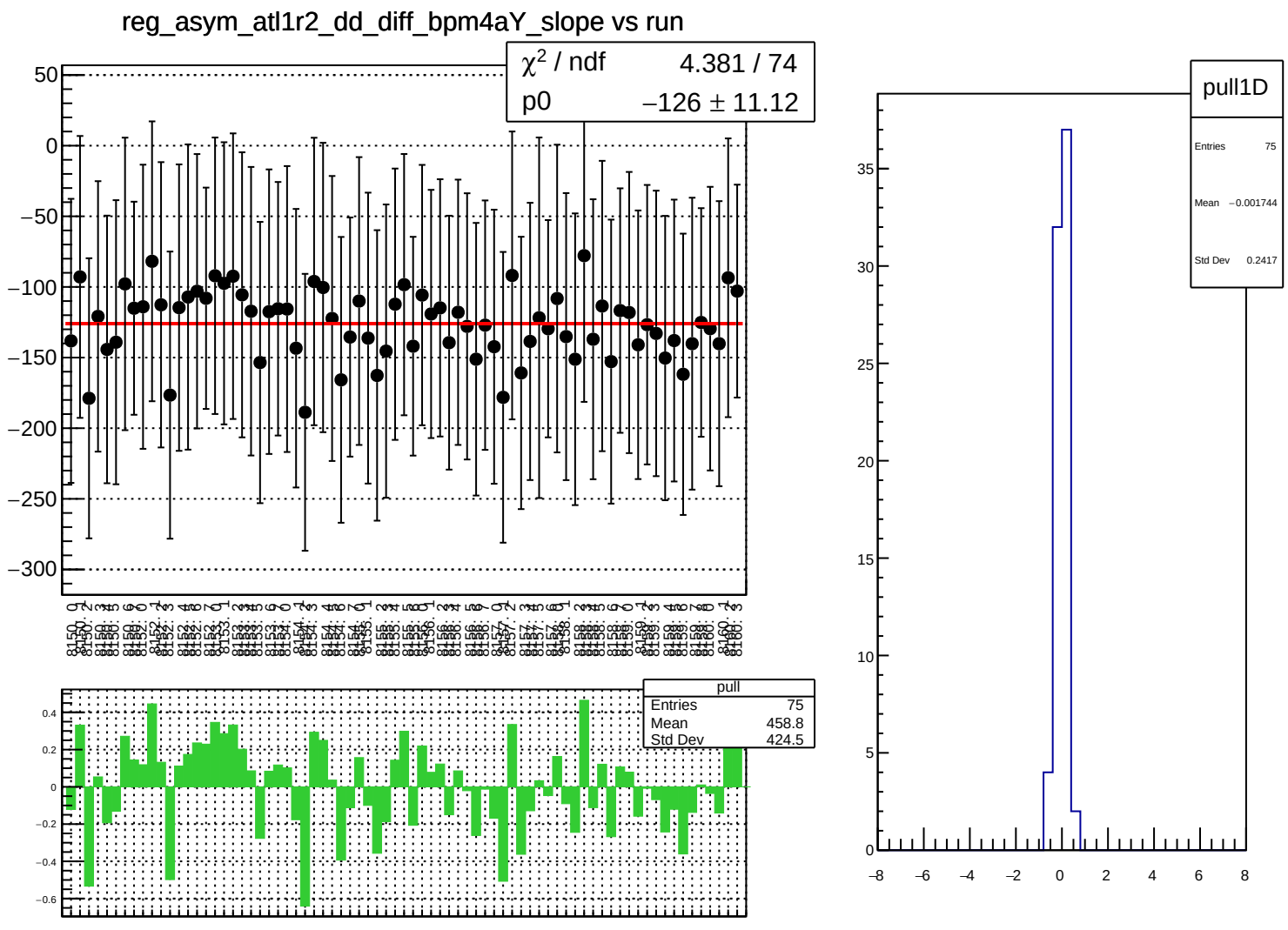

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.731 / 74
p0 −69.92 ± 13.42
pull
Entries 75
Mean 616.9
Std Dev 576.4

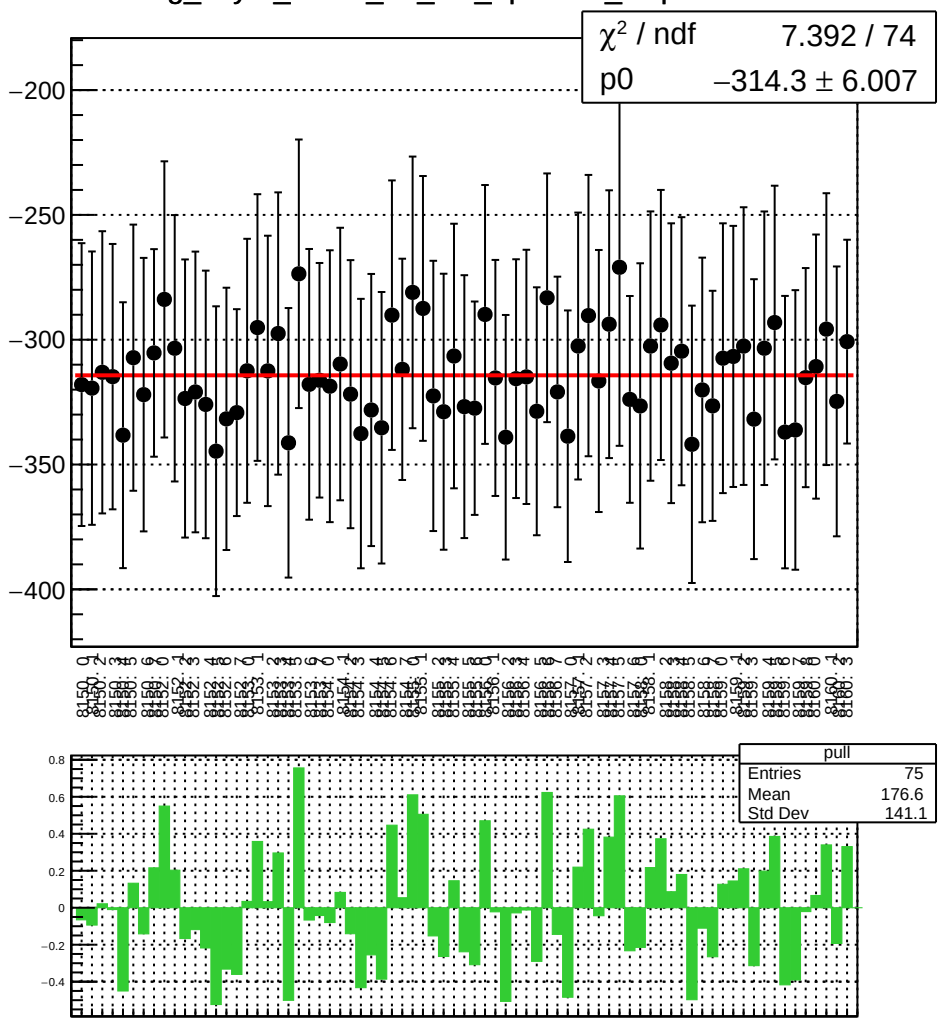

pull1D
Entries 75
Mean 0.001532
Std Dev 0.2996

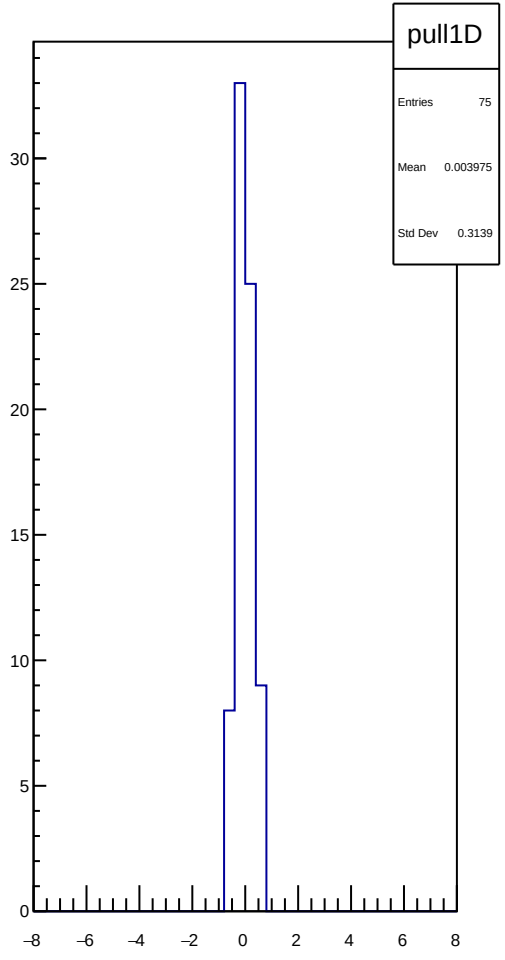

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 9.674 / 74
p0 −168.6 ± 0.6292
−160
−165
−170
−175
−180
pull
Entries 75
Mean −1608
Std Dev 1649
1
0.5
0
−0.5
−1
pull1D
Entries 75
Mean −0.0007781
Std Dev 0.3591
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

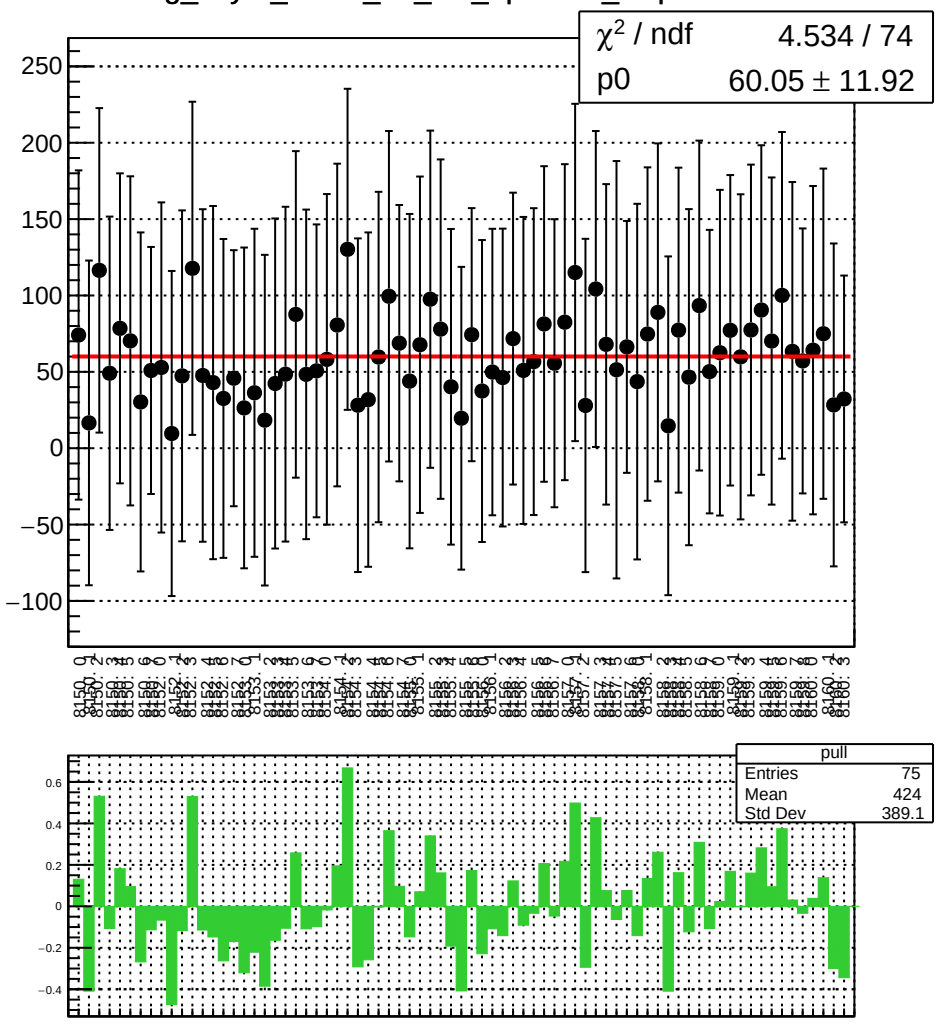

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 7.988 / 74
p0 313 ± 5.929
pull
Entries 75
Mean 267.5
Std Dev 233.2

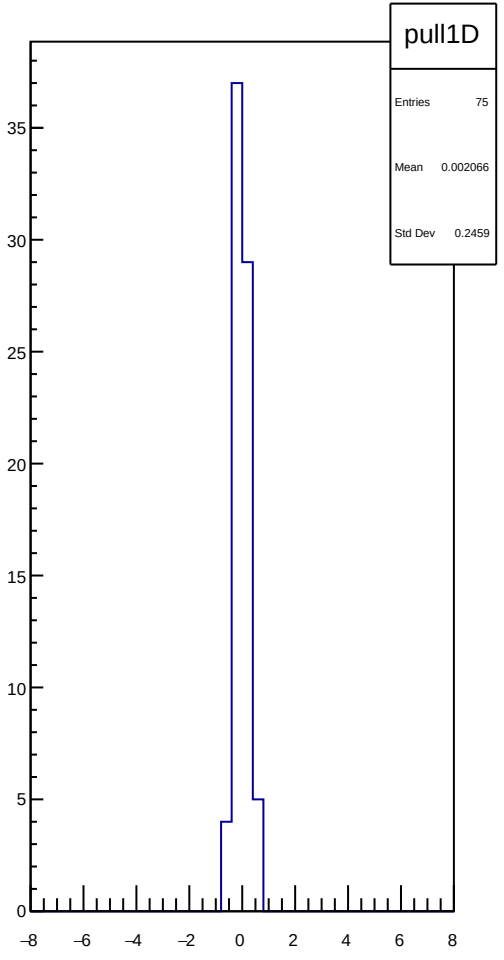

pull1D
Entries 75
Mean −0.003709
Std Dev 0.3263

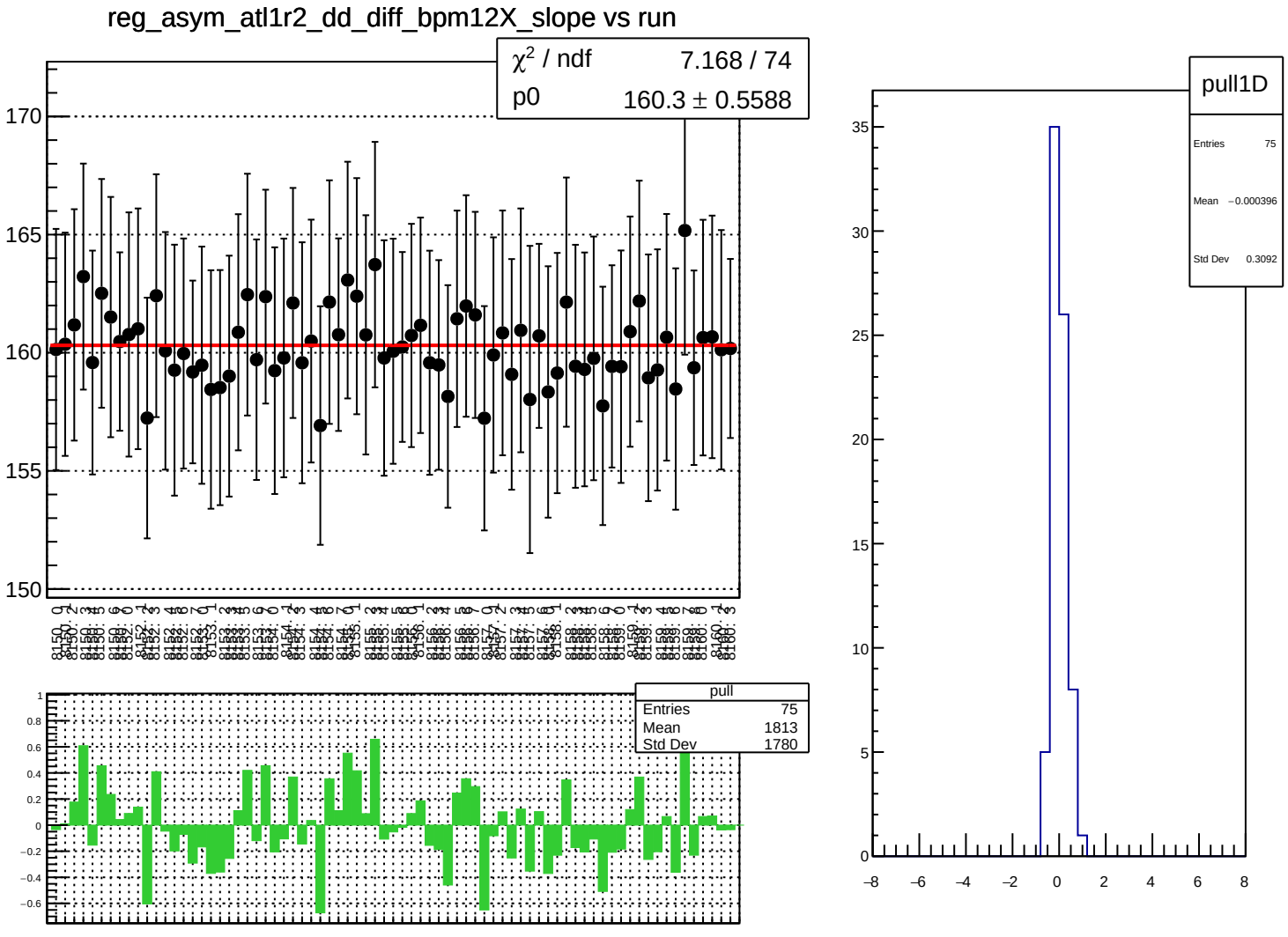

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.381 / 74
p0 −126 ± 11.12
pull
Entries 75
Mean 458.8
Std Dev 424.5
pull1D
Entries 75
Mean −0.001744
Std Dev 0.2417

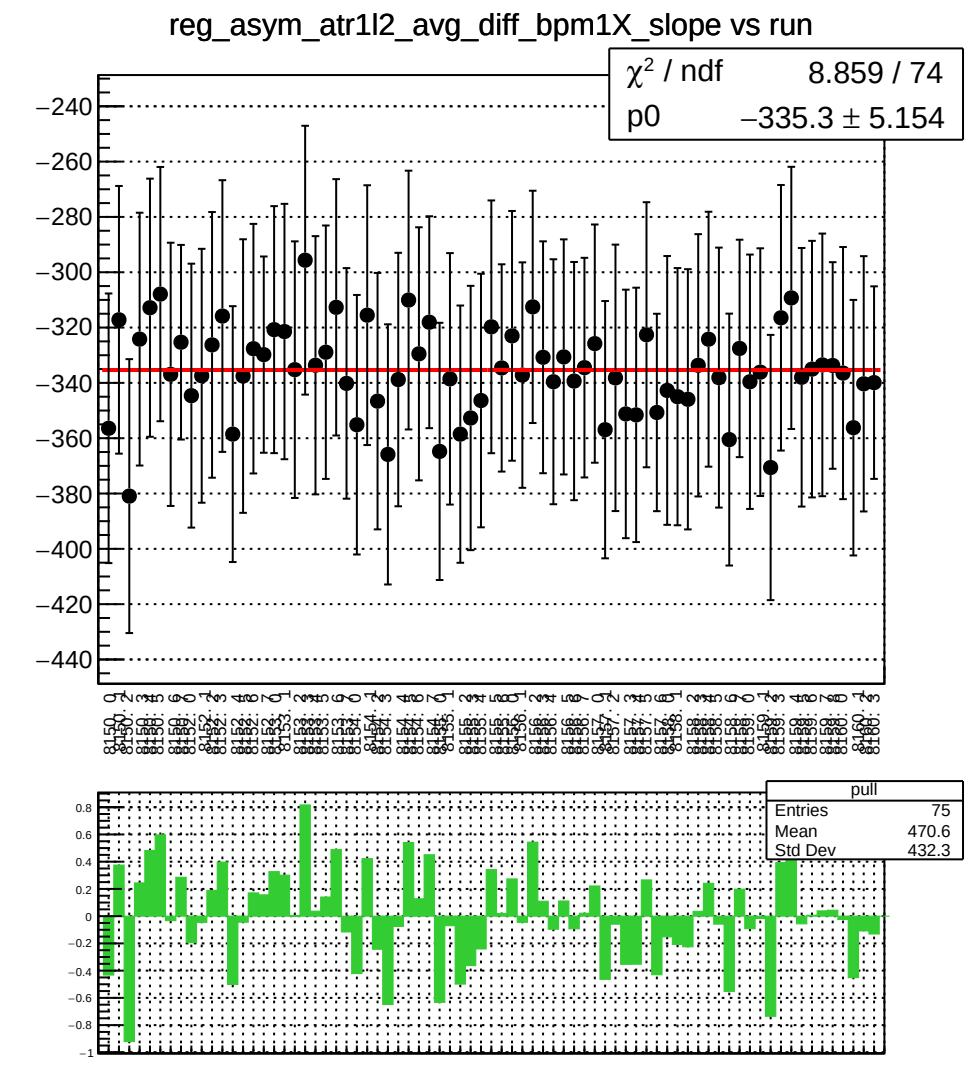

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.392 / 74
p0 −314.3 ± 6.007
−200
−250
−300
−350
−400
pull
Entries 75
Mean 176.6
Std Dev 141.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

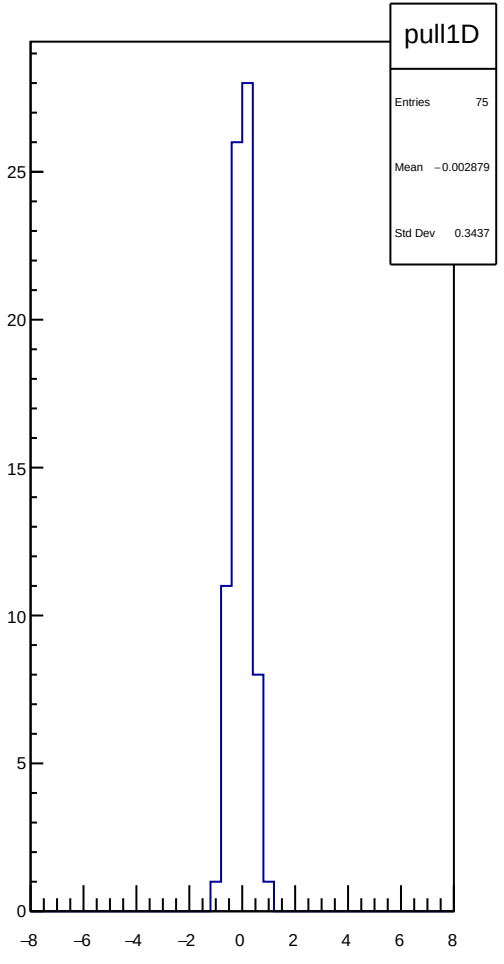

pull1D
Entries 75
Mean 0.003975
Std Dev 0.3139
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

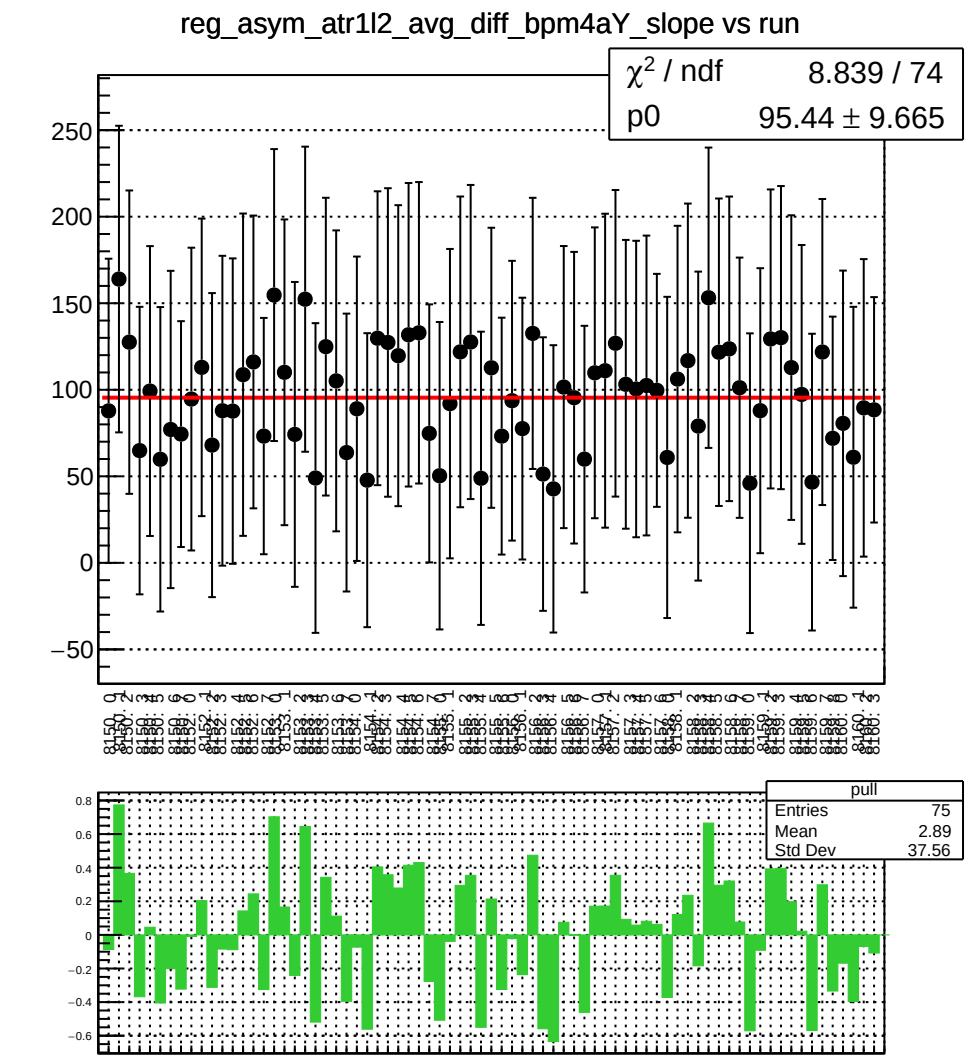

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.534 / 74
p0 60.05 ± 11.92
pull
Entries 75
Mean 424
Std Dev 389.1

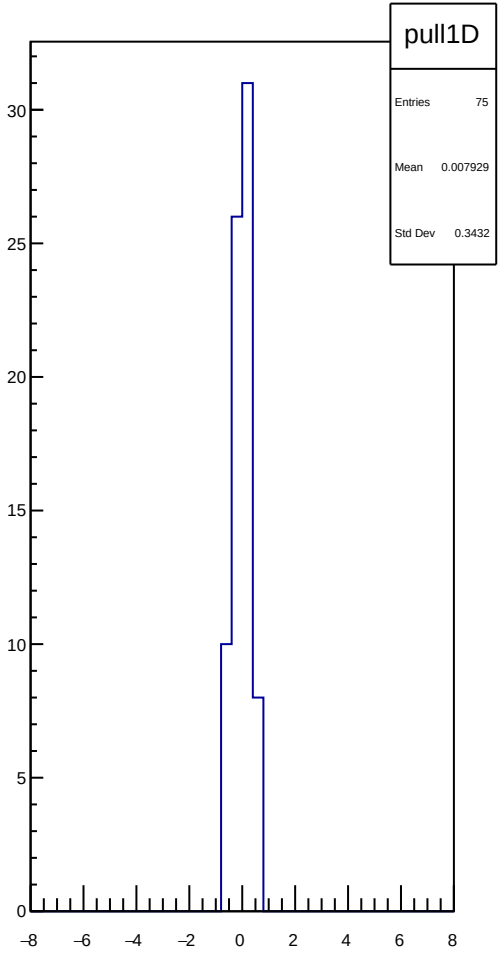

pull1D
Entries 75
Mean 0.002066
Std Dev 0.2459

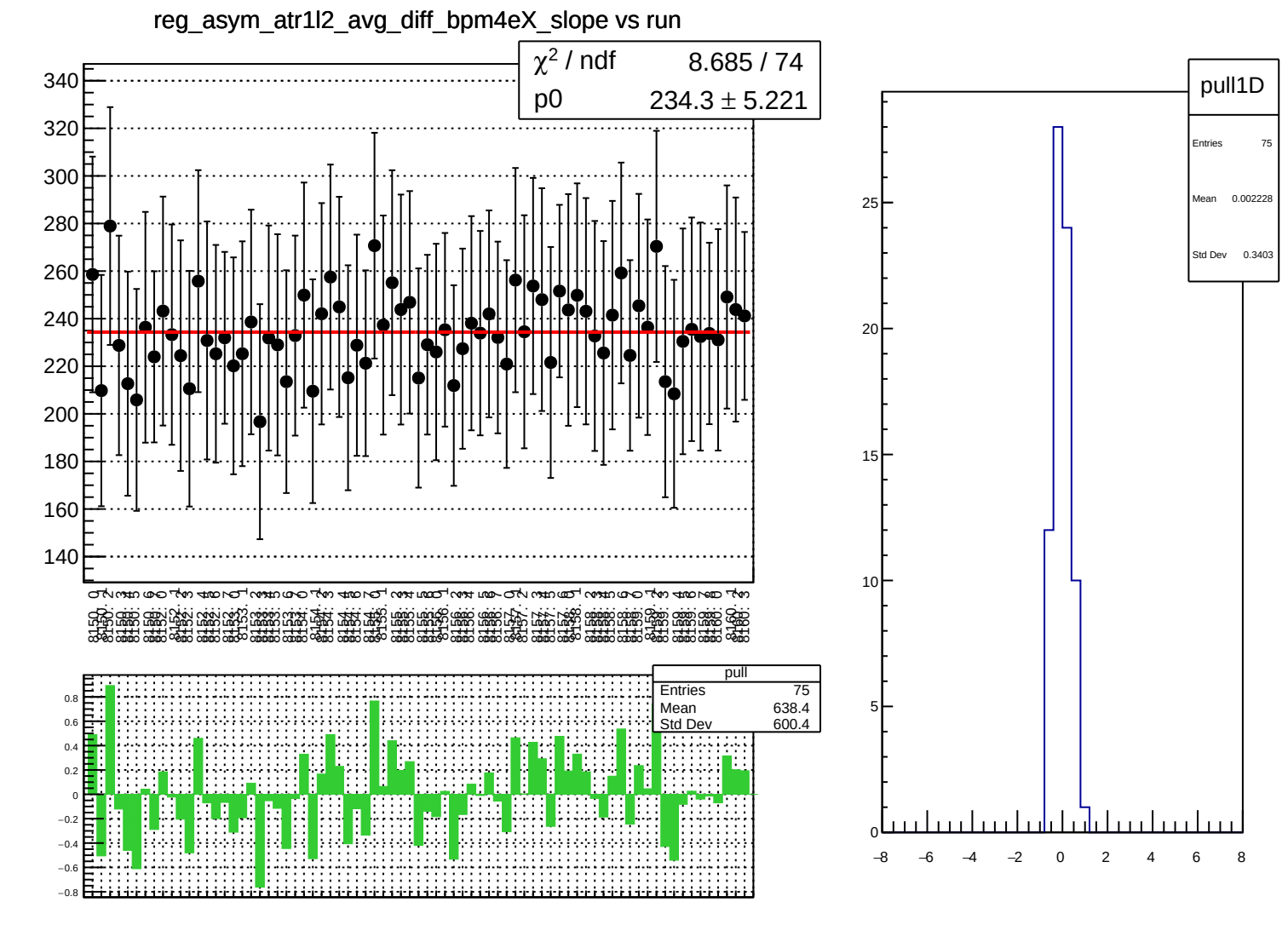

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 7.168 / 74
p0 160.3 ± 0.5588
170
165
160
155
150
pull
Entries 75
Mean 1813
Std Dev 1780
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 75
Mean −0.000396
Std Dev 0.3092
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

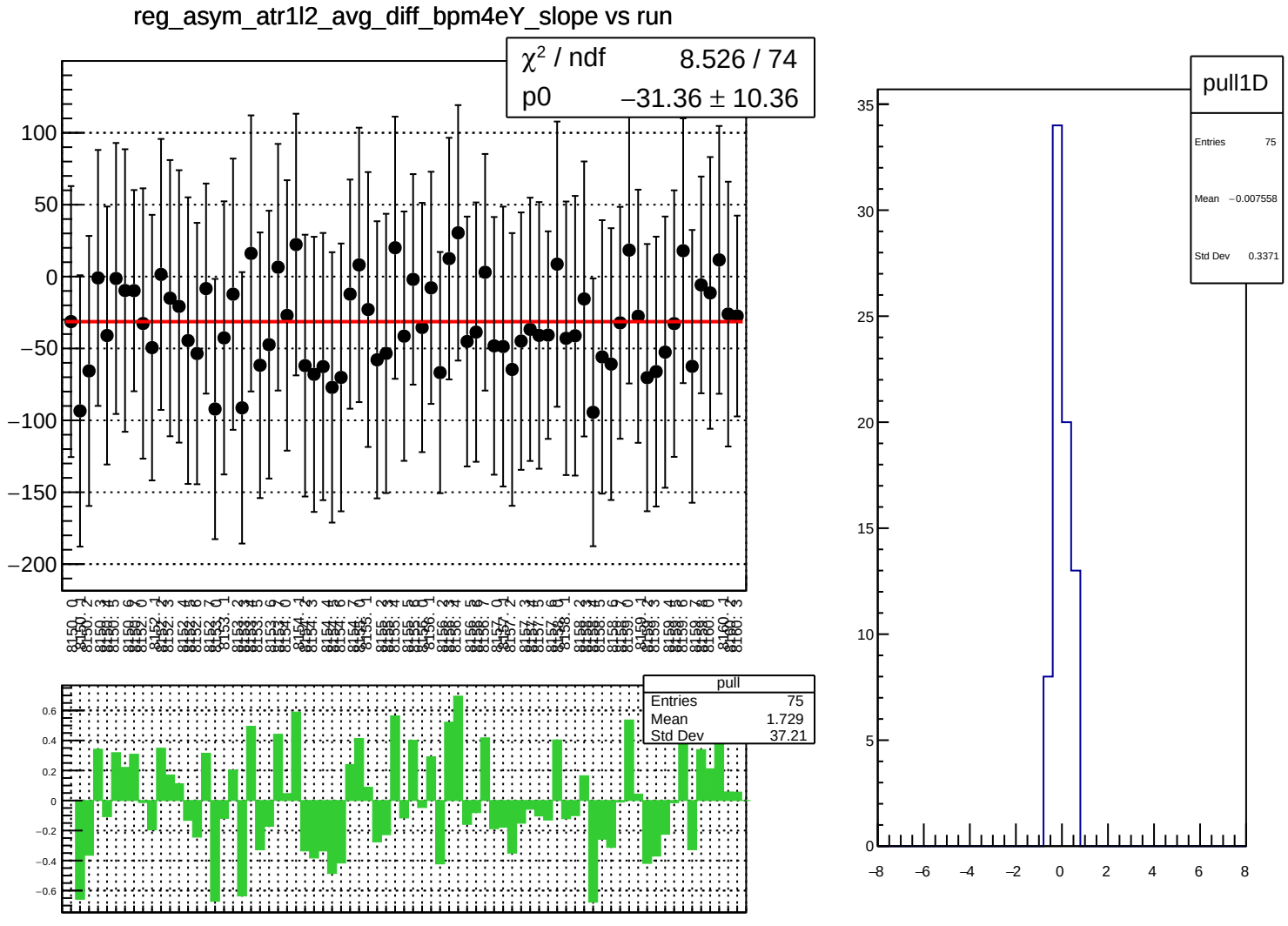

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 8.859 / 74
p0 −335.3 ± 5.154
pull
Entries 75
Mean 470.6
Std Dev 432.3

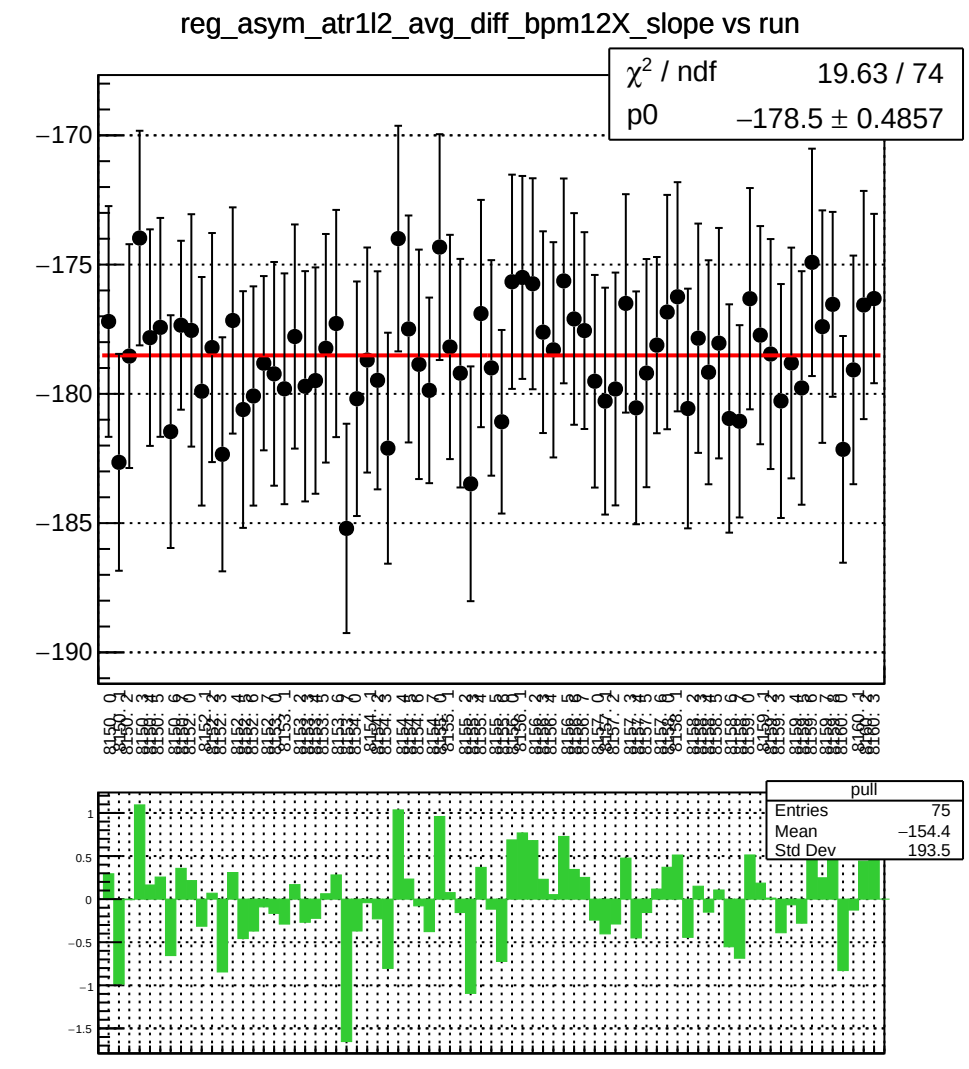

pull1D
Entries 75
Mean −0.002879
Std Dev 0.3437

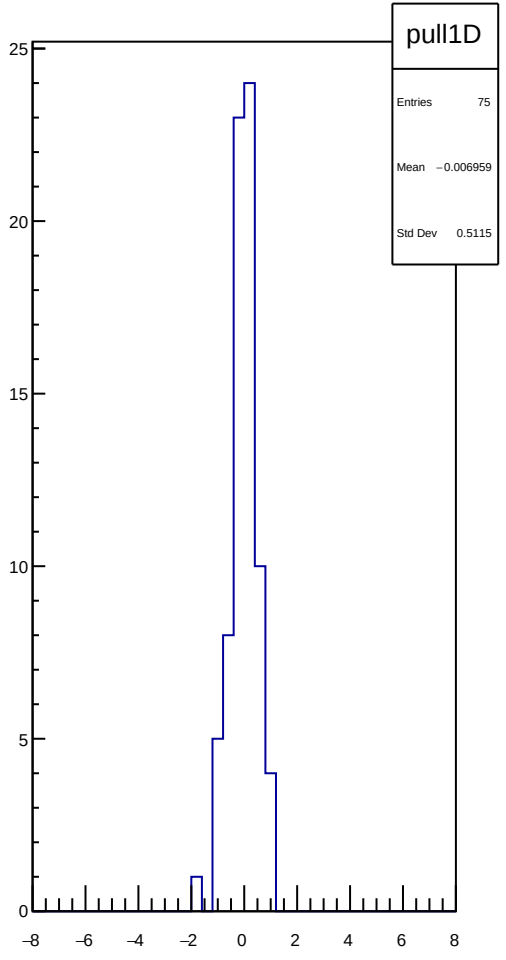

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.839 / 74
p0 95.44 ± 9.665
pull
Entries 75
Mean 2.89
Std Dev 37.56

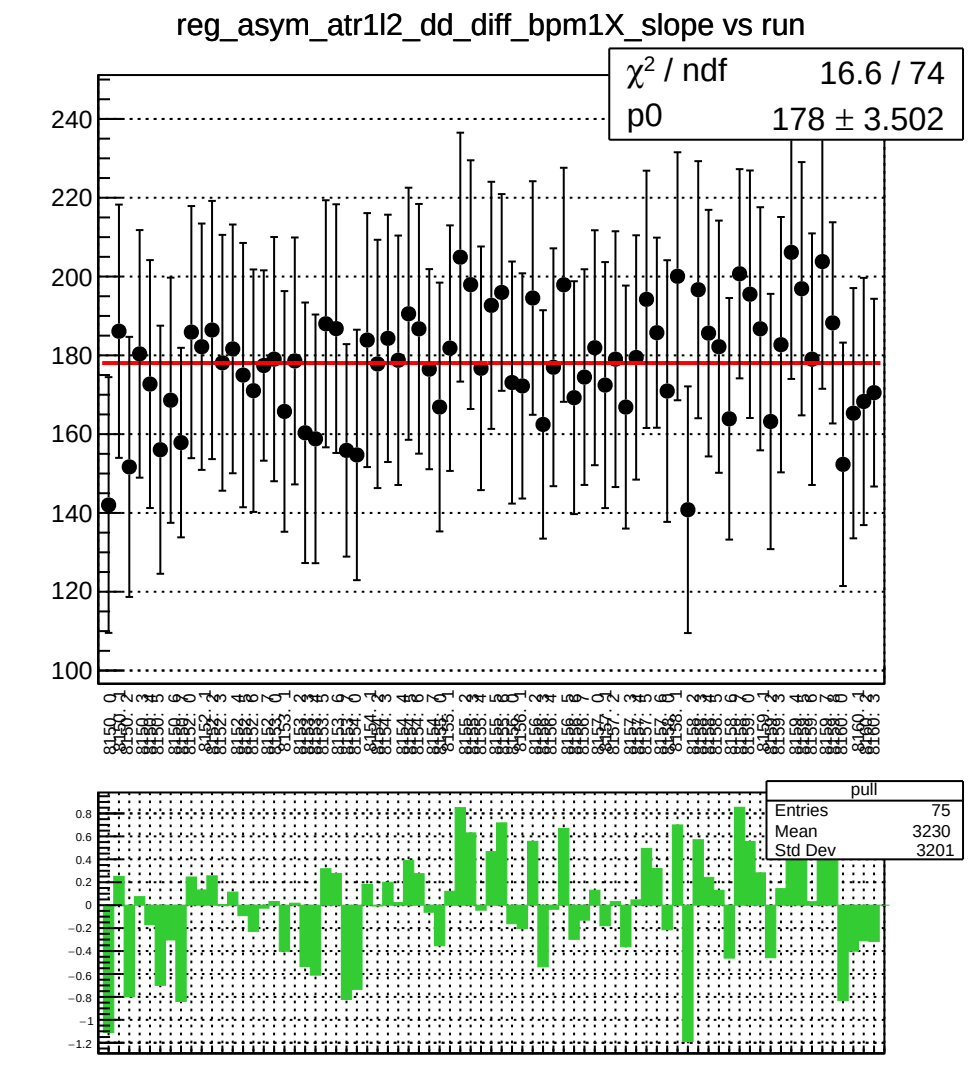

pull1D
Entries 75
Mean 0.007929
Std Dev 0.3432

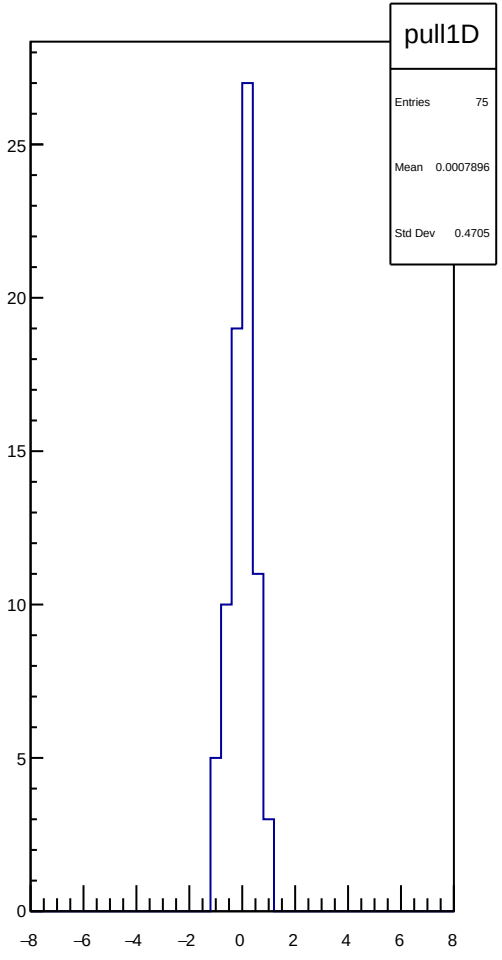

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.685 / 74
p0 234.3 ± 5.221
pull
Entries 75
Mean 638.4
Std Dev 600.4
pull1D
Entries 75
Mean 0.002228
Std Dev 0.3403

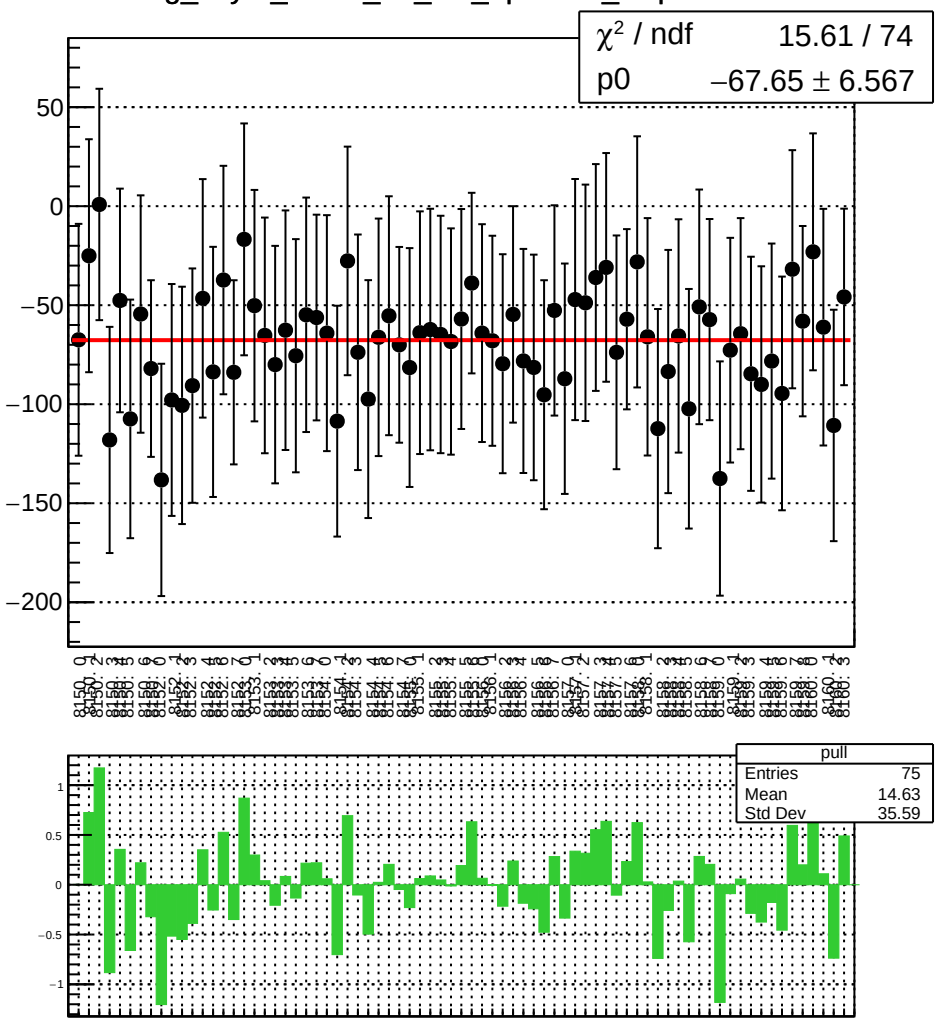

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.526 / 74
p0 −31.36 ± 10.36
pull
Entries 75
Mean 1.729
Std Dev 37.21
pull1D
Entries 75
Mean −0.007558
Std Dev 0.3371

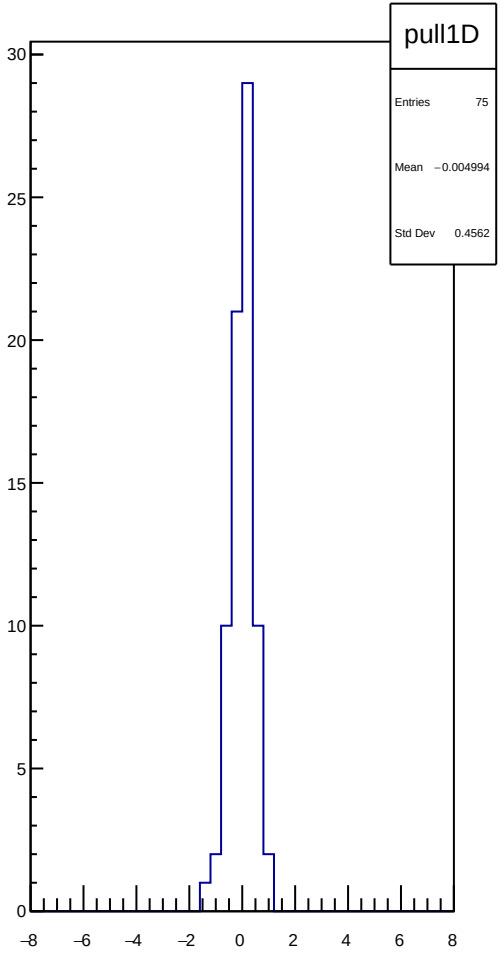

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 19.63 / 74
p0 −178.5 ± 0.4857
−170
−175
−180
−185
−190
pull
Entries 75
Mean −154.4
Std Dev 193.5
1
0.5
0
−0.5
−1
−1.5

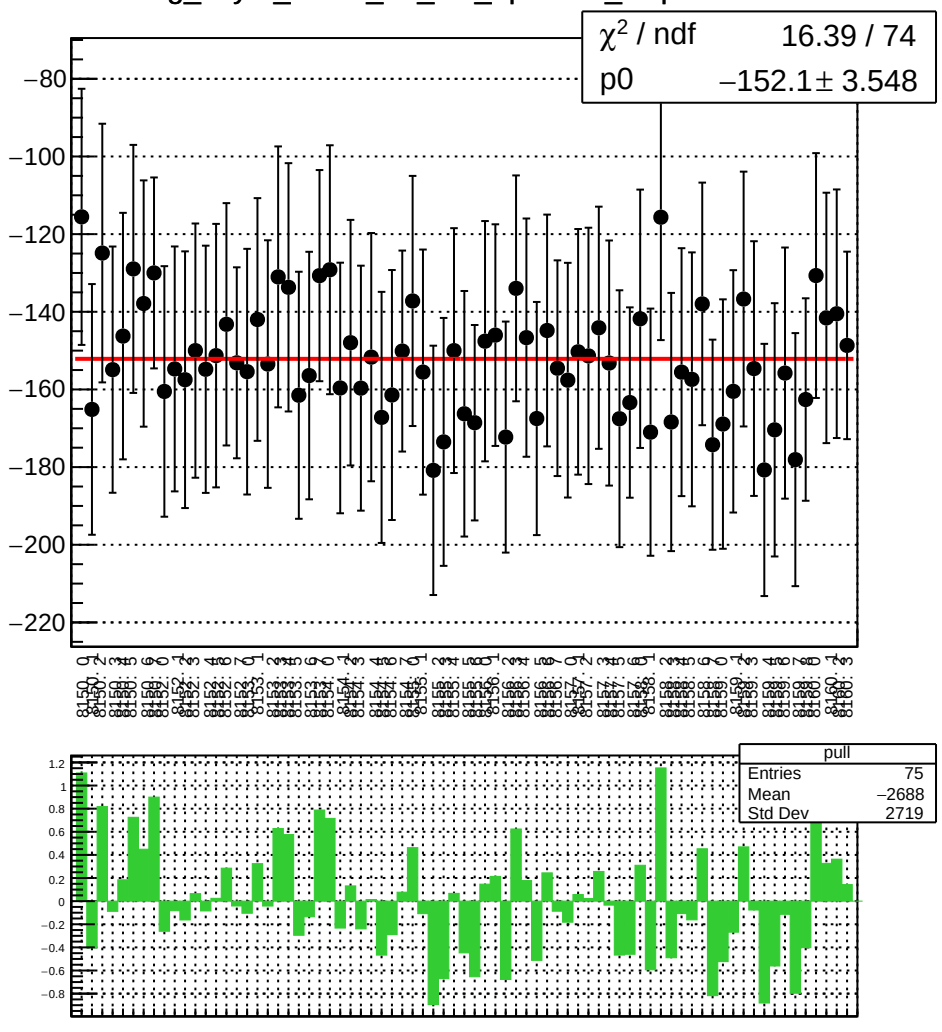

pull1D
Entries 75
Mean −0.006959
Std Dev 0.5115
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

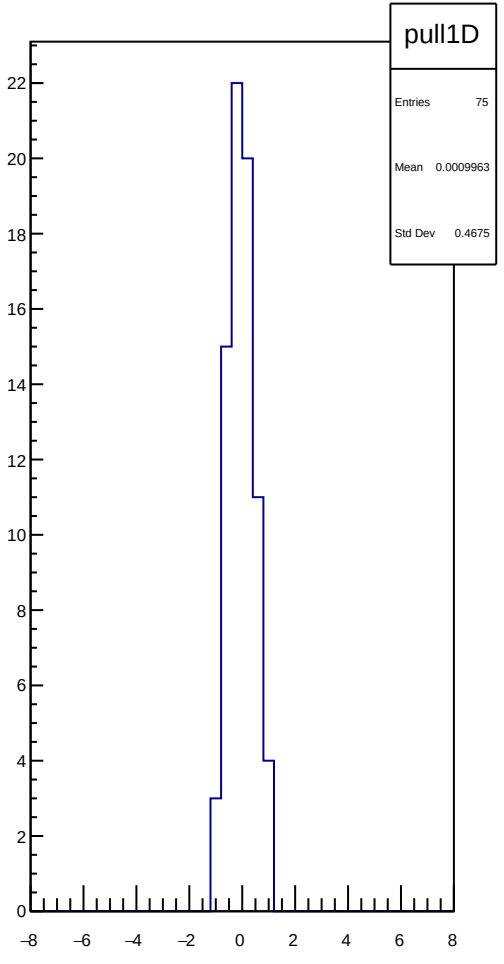

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 16.6 / 74
p0 178 ± 3.502
pull
Entries 75
Mean 3230
Std Dev 3201

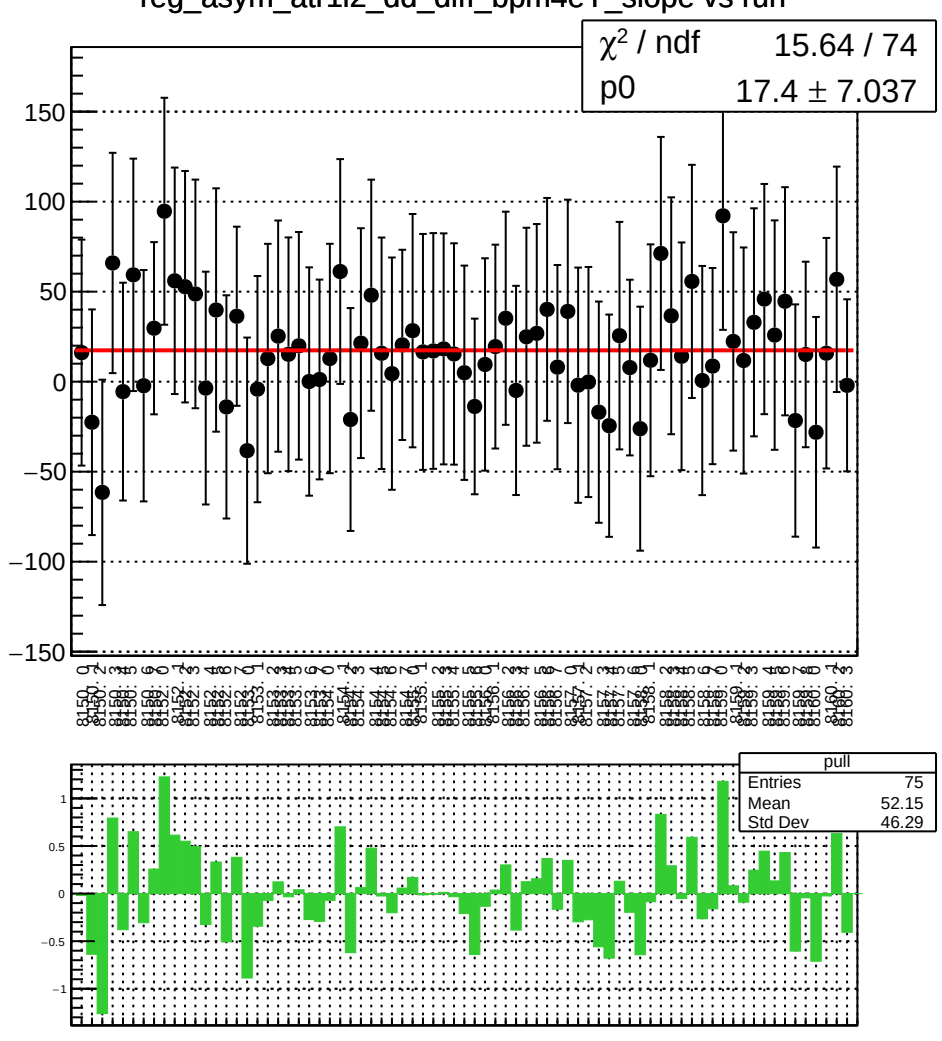

pull1D
Entries 75
Mean 0.0007896
Std Dev 0.4705

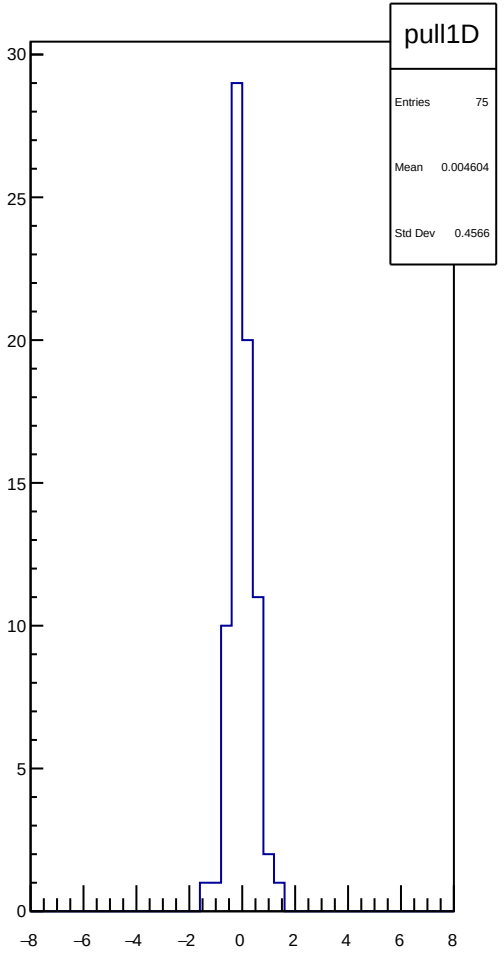

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.61 / 74
p0 −67.65 ± 6.567
pull
Entries 75
Mean 14.63
Std Dev 35.59

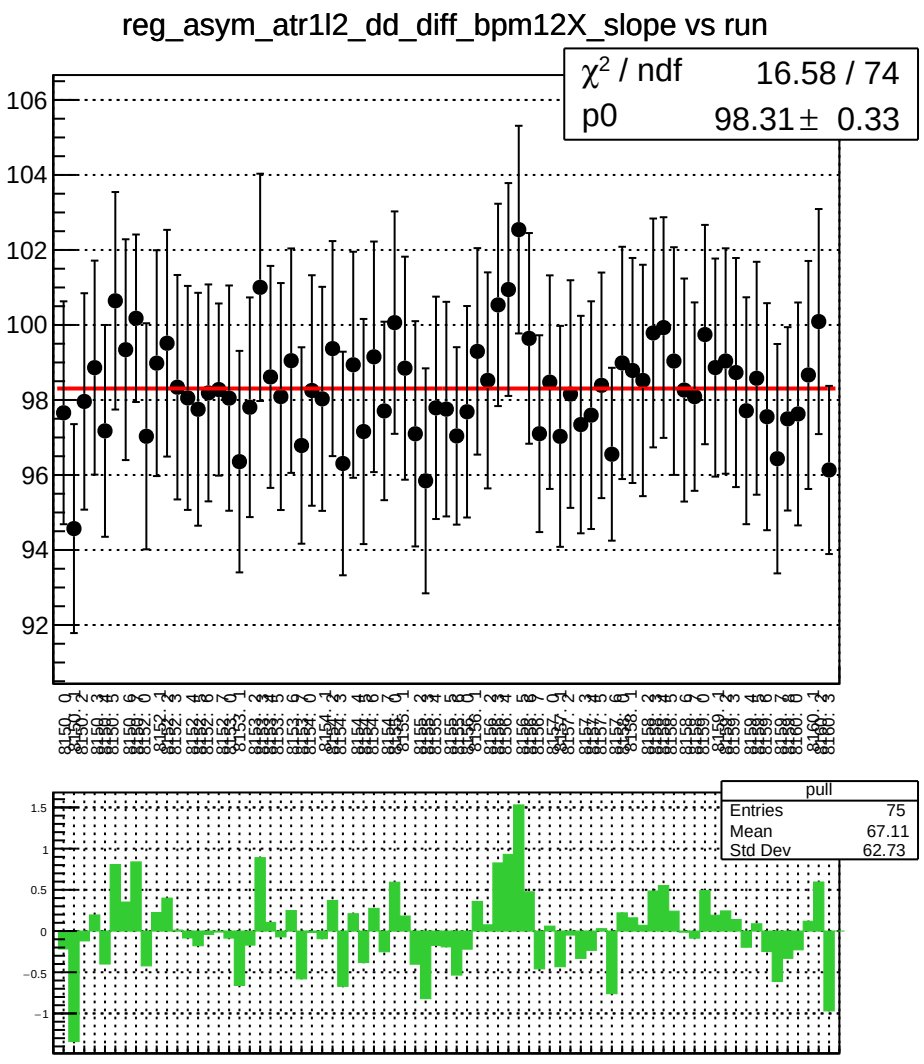

pull1D
Entries 75
Mean −0.004994
Std Dev 0.4562

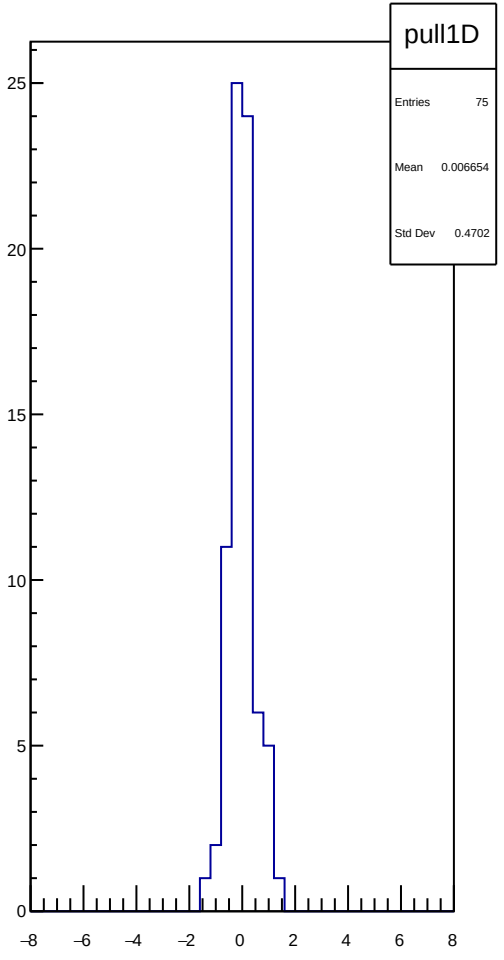

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.39 / 74
p0 −152.1± 3.548
pull
Entries 75
Mean −2688
Std Dev 2719

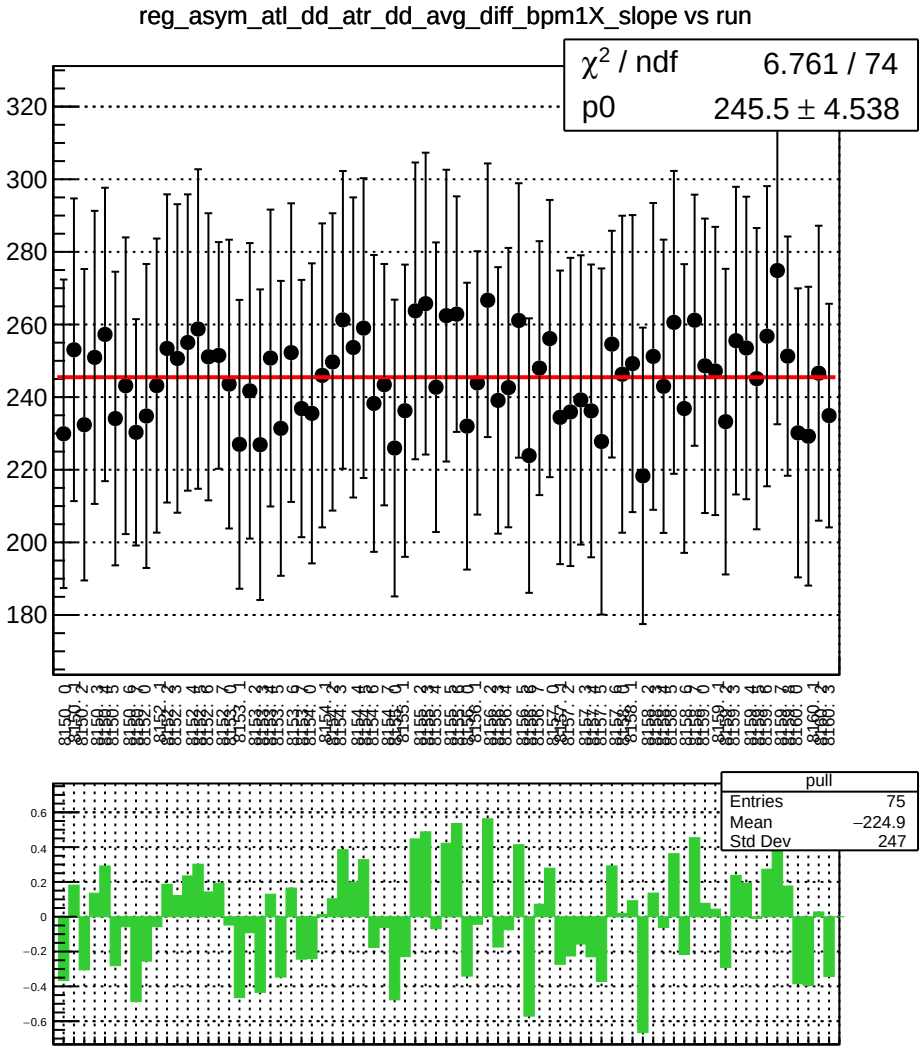

pull1D
Entries 75
Mean 0.0009963
Std Dev 0.4675

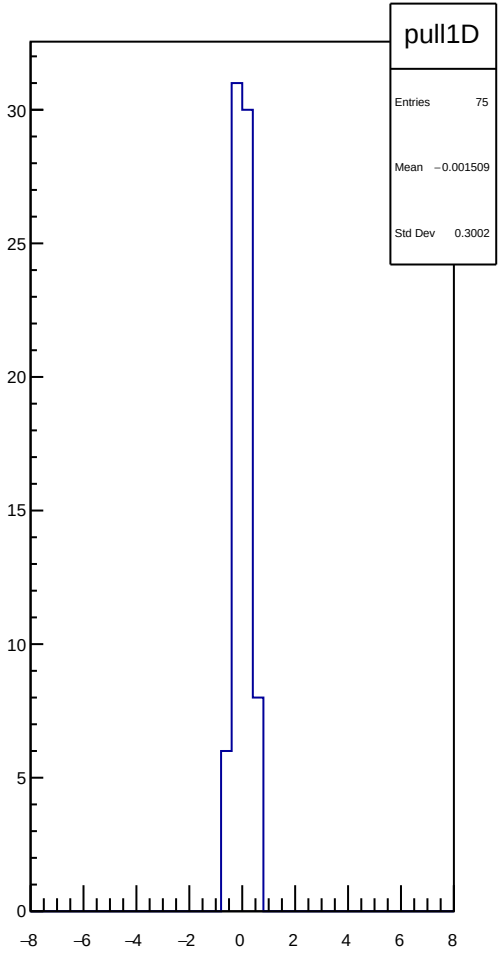

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.64 / 74
p0 17.4 ± 7.037
pull
Entries 75
Mean 52.15
Std Dev 46.29

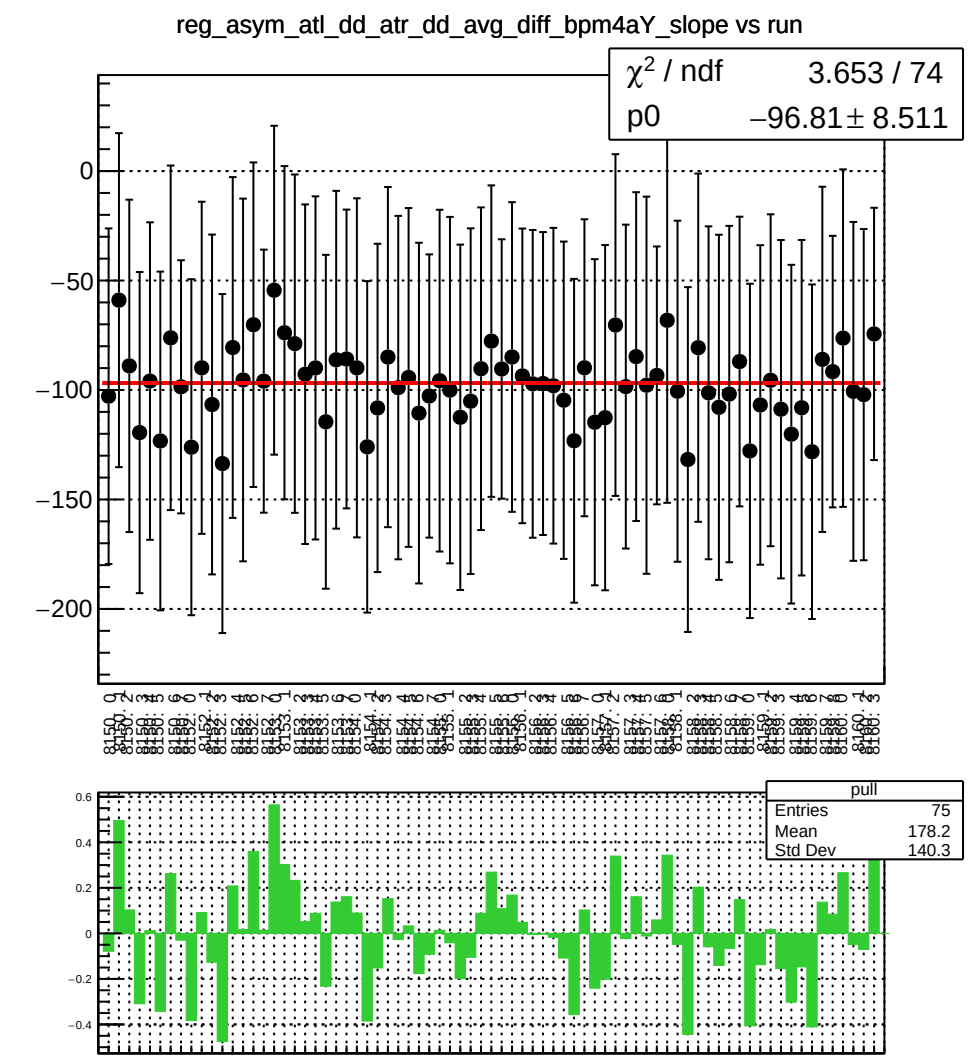

pull1D
Entries 75
Mean 0.004604
Std Dev 0.4566

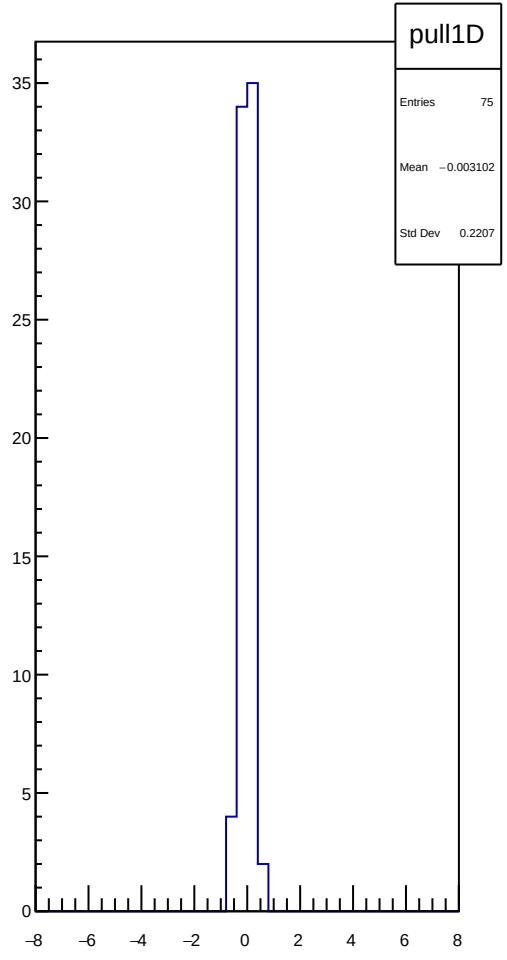

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 16.58 / 74
p0 98.31 ± 0.33
pull
Entries 75
Mean 67.11
Std Dev 62.73

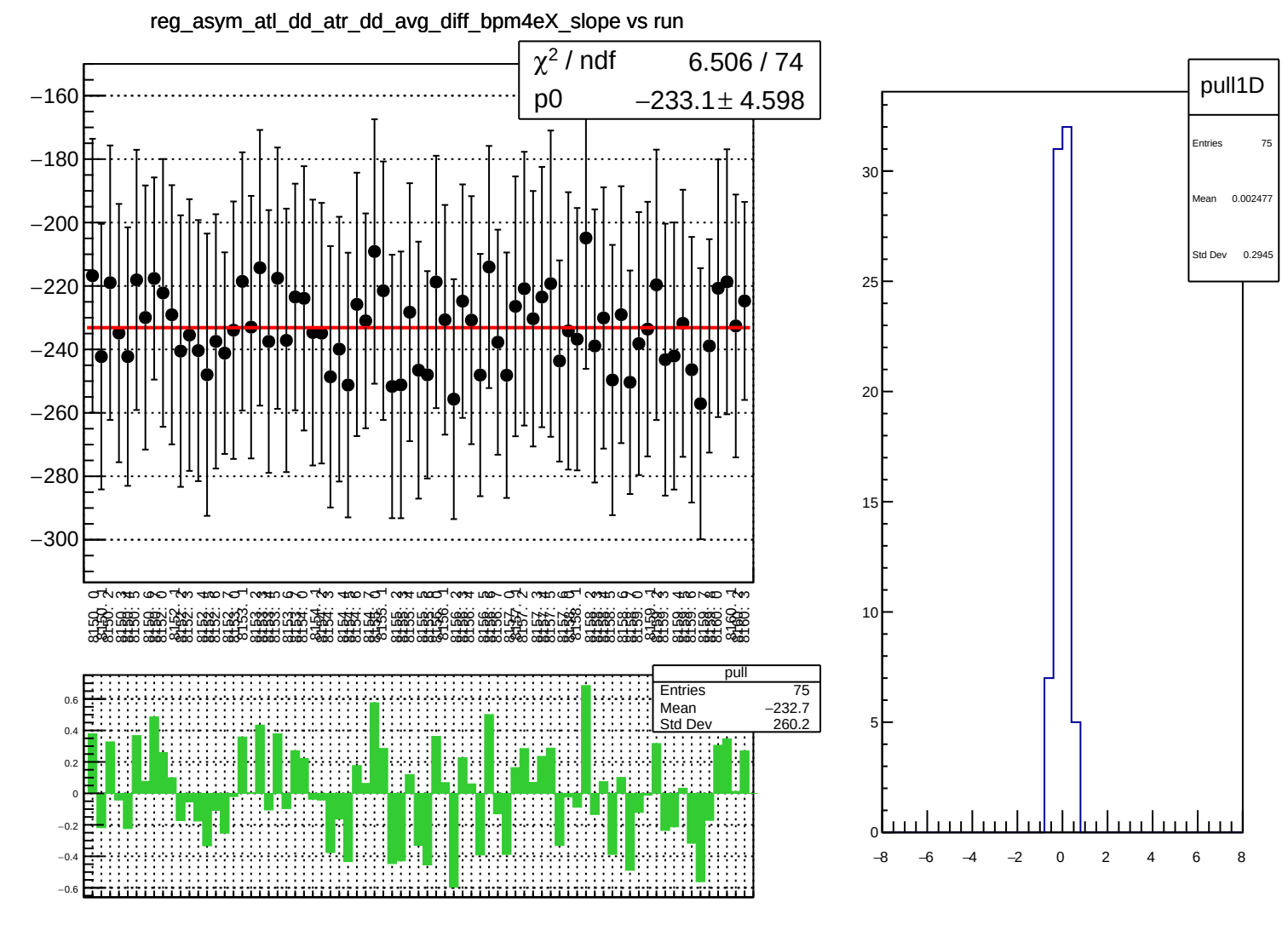

pull1D
Entries 75
Mean 0.006654
Std Dev 0.4702

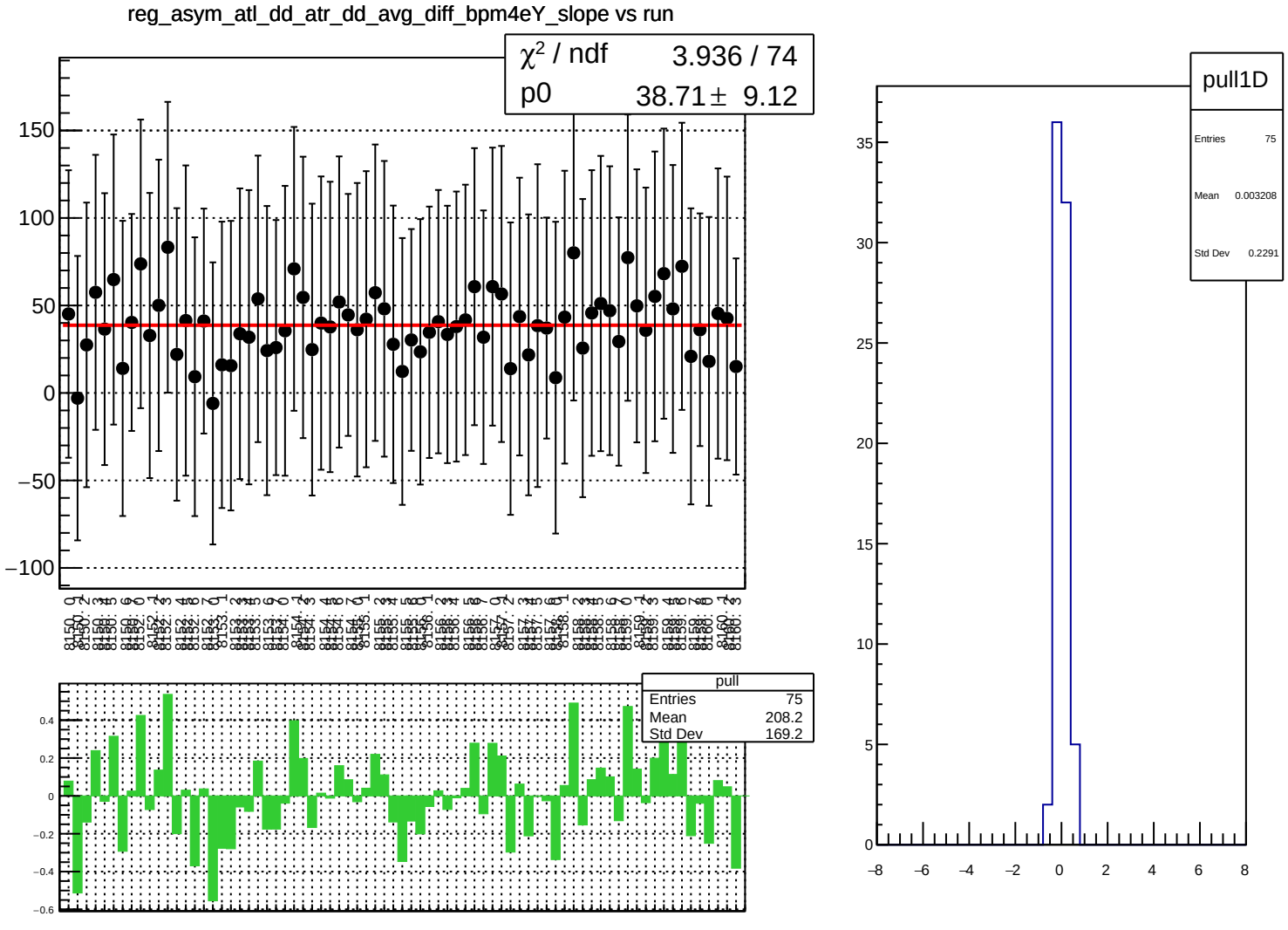

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 6.761 / 74
p0 245.5 ± 4.538
pull
Entries 75
Mean −224.9
Std Dev 247

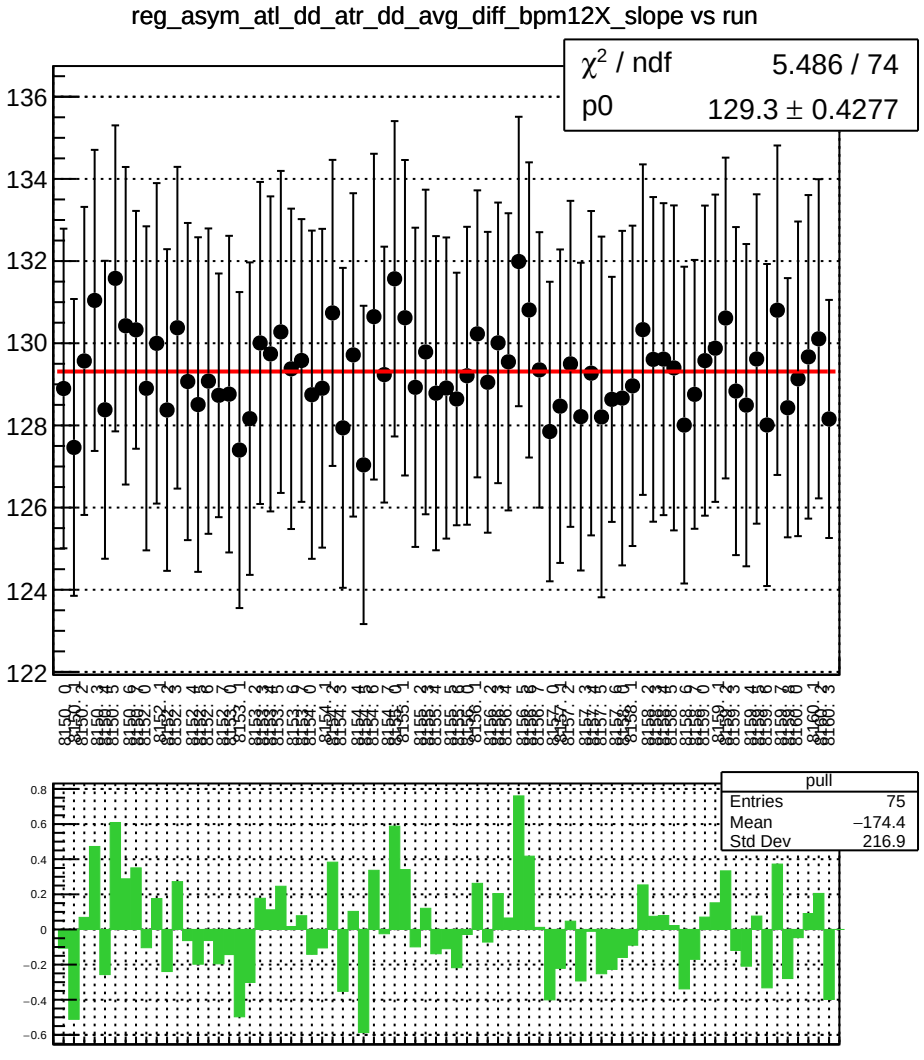

pull1D
Entries 75
Mean −0.001509
Std Dev 0.3002

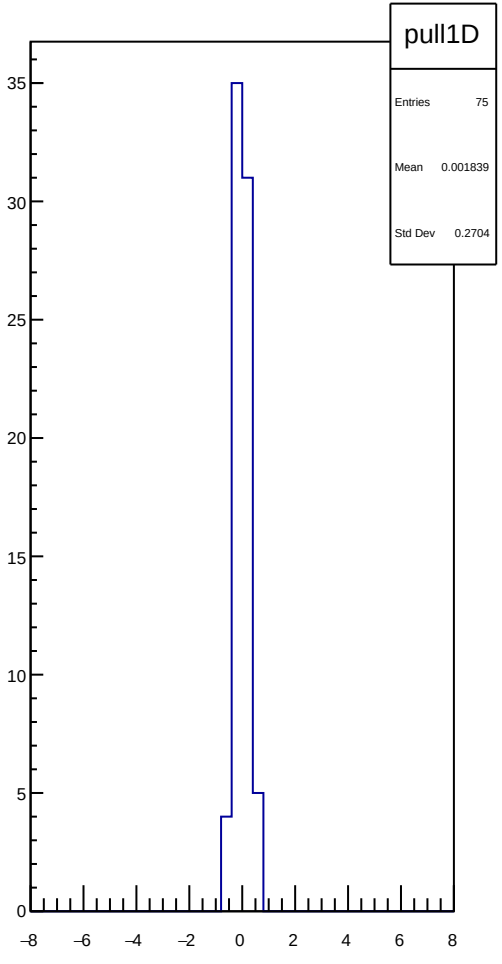

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.653 / 74
p0 −96.81 ± 8.511
0
−50
−100
−150
−200
pull
Entries 75
Mean 178.2
Std Dev 140.3
0.6
0.4
0.2
0
−0.2
−0.4

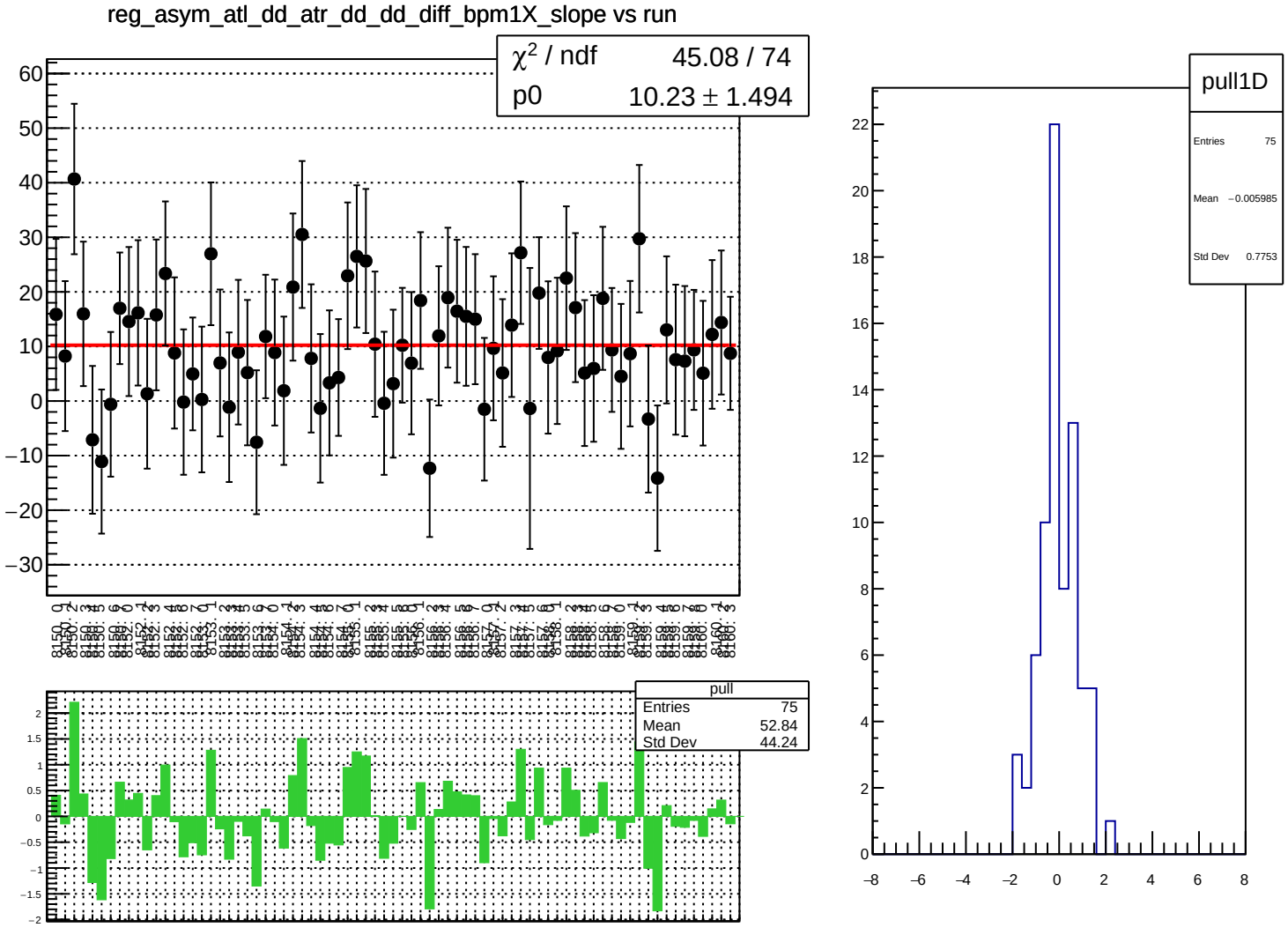

pull1D
Entries 75
Mean −0.003102
Std Dev 0.2207
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

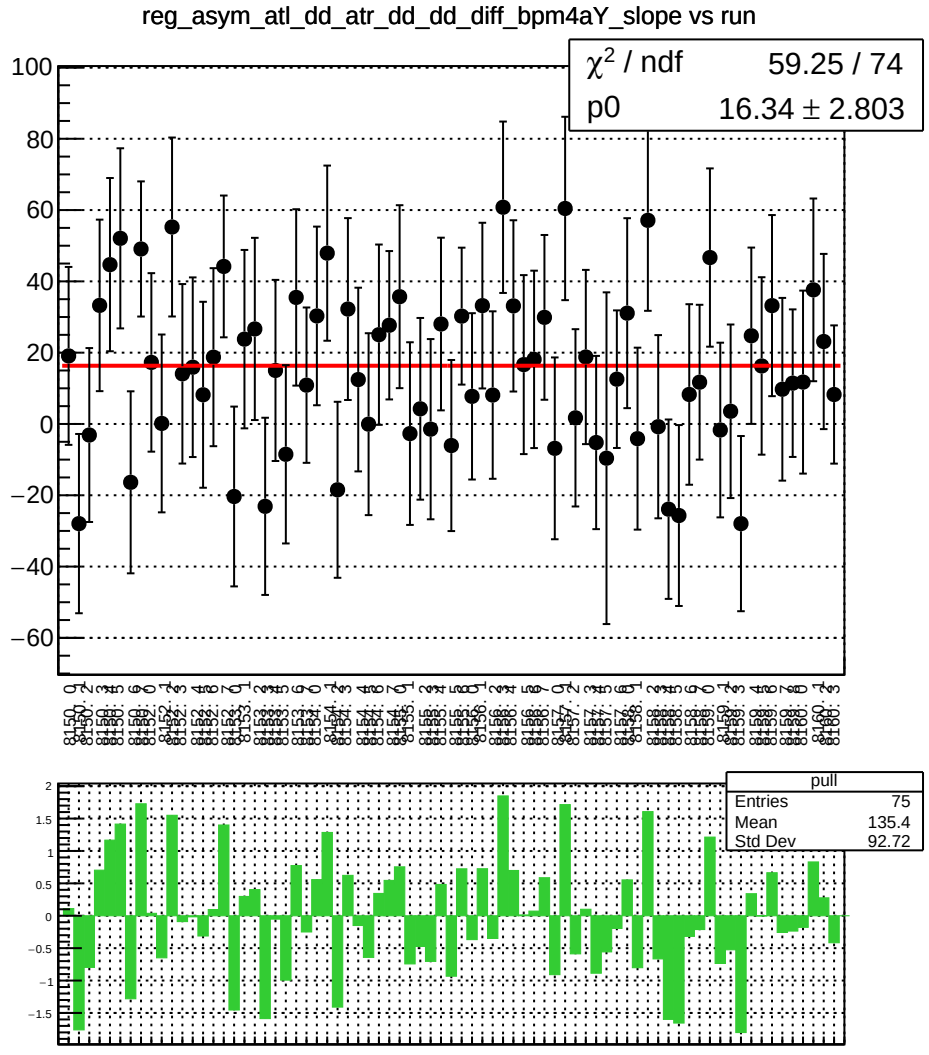

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.506 / 74
p0 −233.1 ± 4.598
−160
−180
−200
−220
−240
−260
−280
−300
pull
Entries 75
Mean −232.7
Std Dev 260.2
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 75
Mean 0.002477
Std Dev 0.2945
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

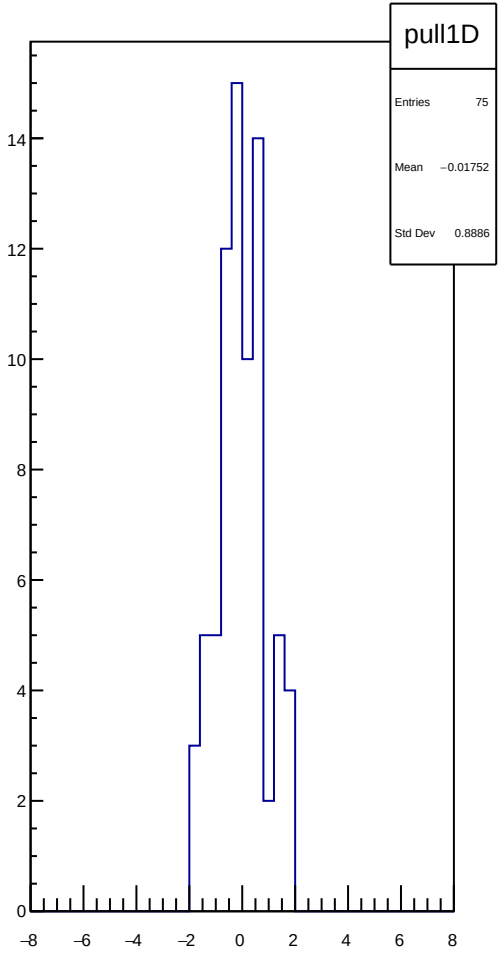

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.936 / 74
p0 38.71 ± 9.12
150
100
50
0
−50
−100
pull
Entries 75
Mean 208.2
Std Dev 169.2
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 75
Mean 0.003208
Std Dev 0.2291
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

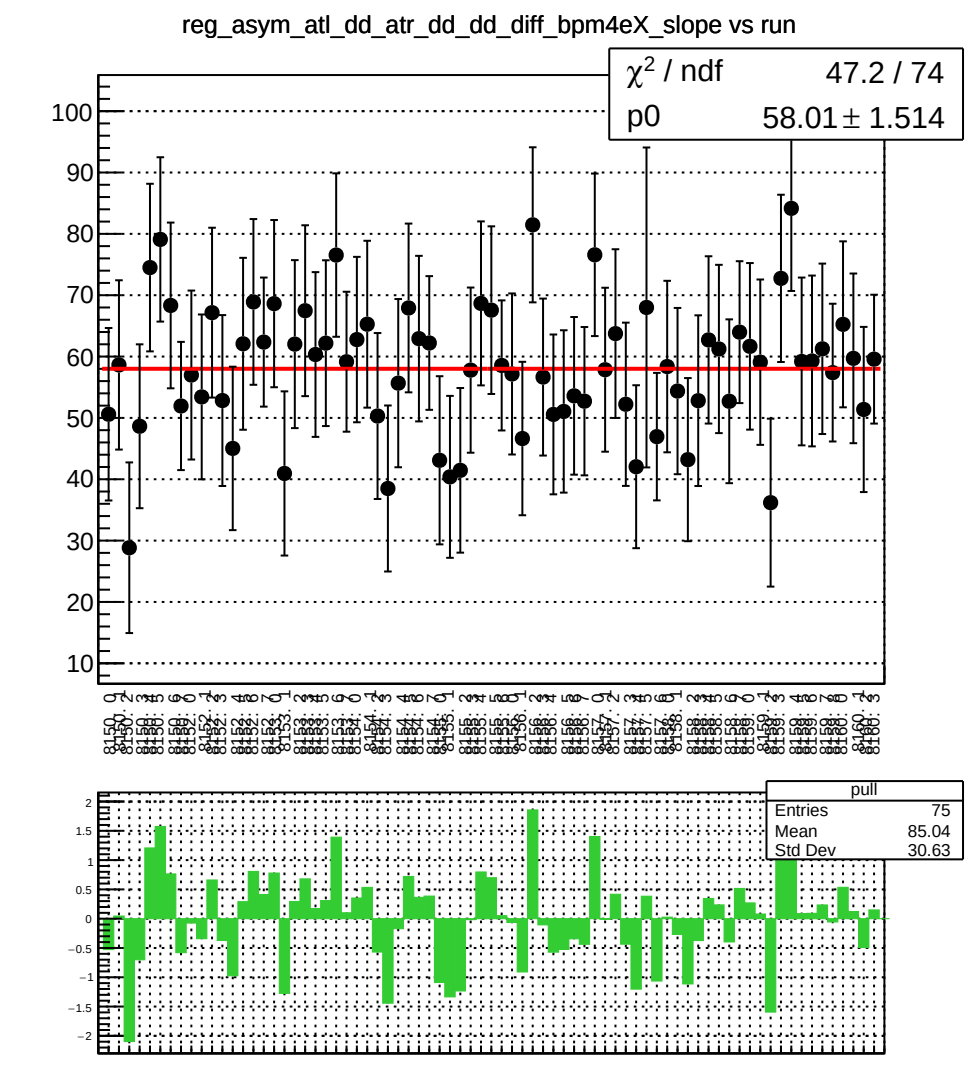

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 5.486 / 74
p0 129.3 ± 0.4277
pull
Entries 75
Mean −174.4
Std Dev 216.9

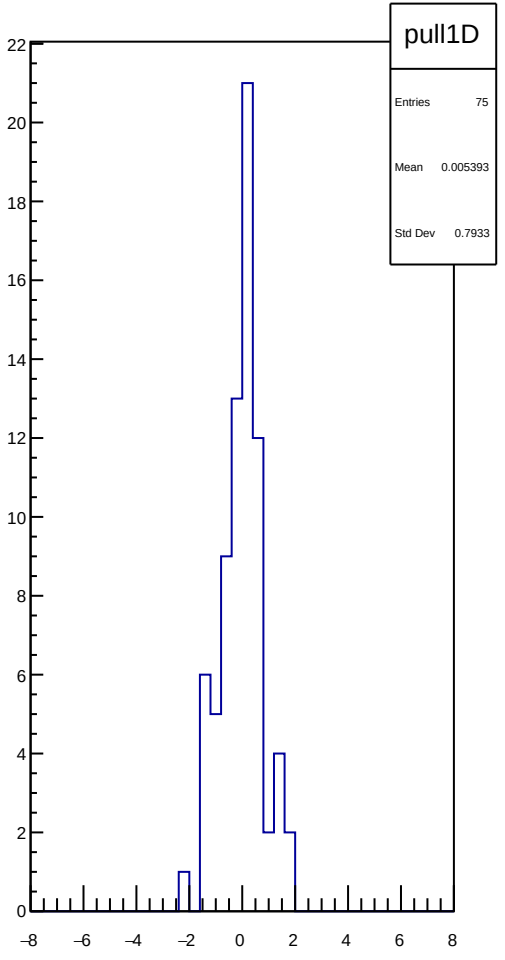

pull1D
Entries 75
Mean 0.001839
Std Dev 0.2704

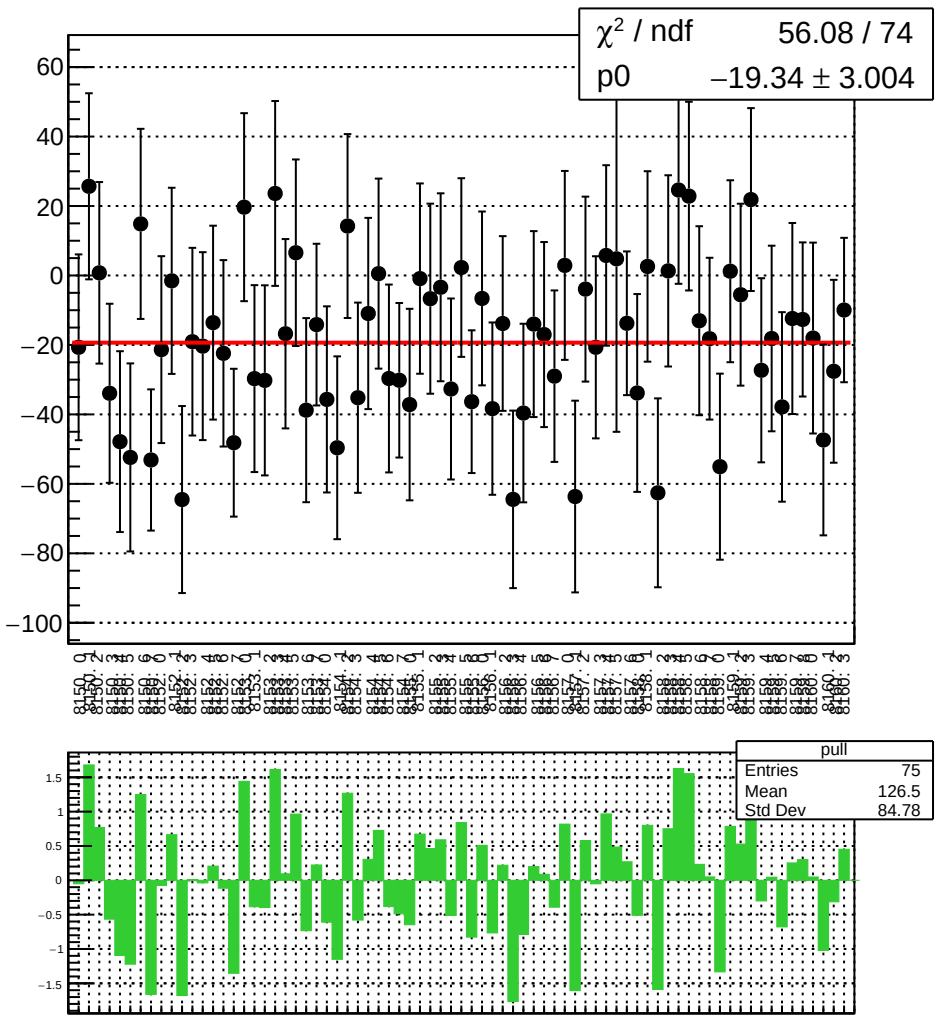

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 45.08 / 74
p0 10.23 ± 1.494
pull
Entries 75
Mean 52.84
Std Dev 44.24
pull1D
Entries 75
Mean −0.005985
Std Dev 0.7753

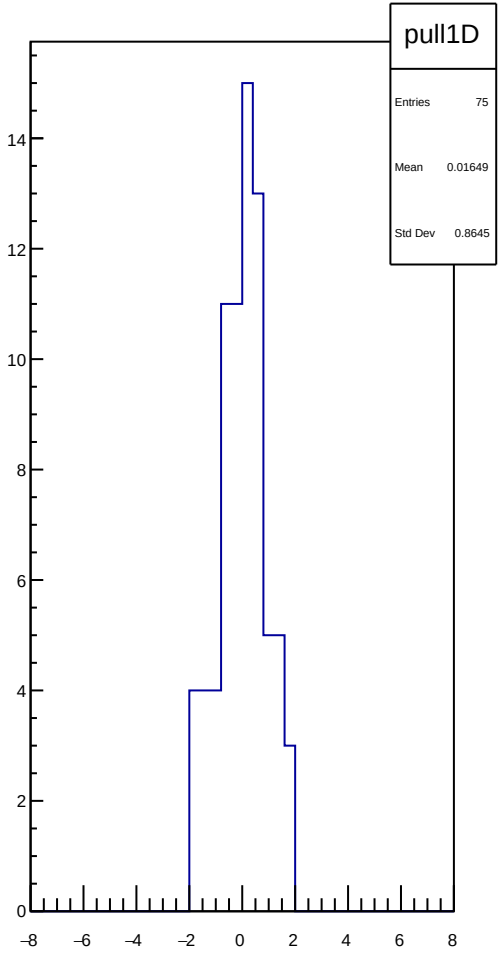

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 59.25 / 74
p0 16.34 ± 2.803
pull
Entries 75
Mean 135.4
Std Dev 92.72

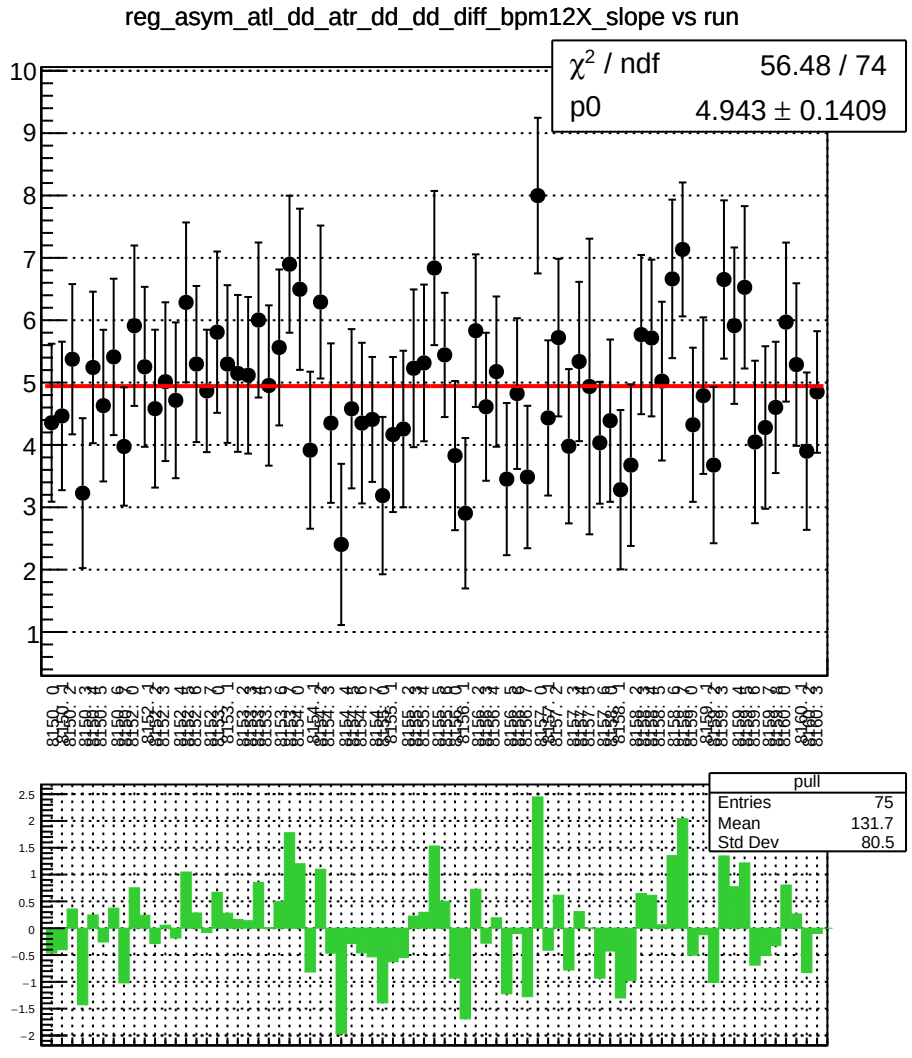

pull1D
Entries 75
Mean −0.01752
Std Dev 0.8886

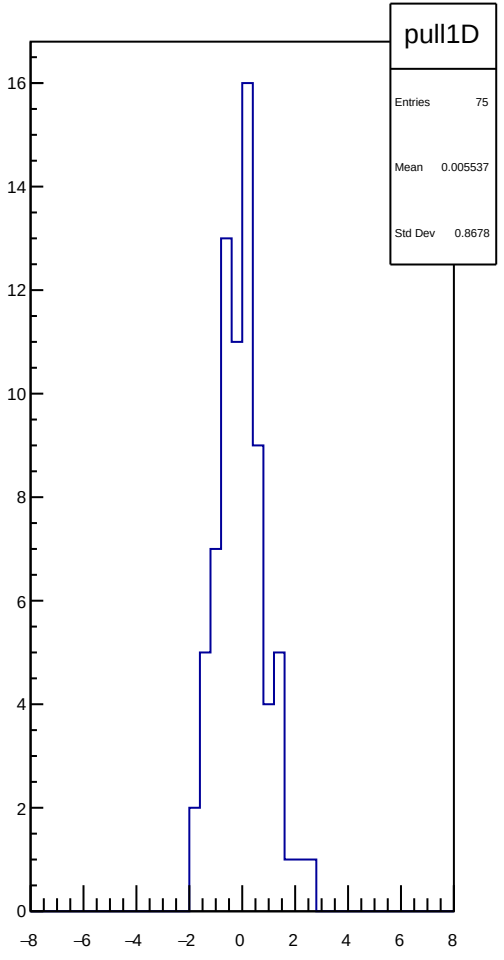

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.2 / 74
p0 58.01 ± 1.514
pull
Entries 75
Mean 85.04
Std Dev 30.63

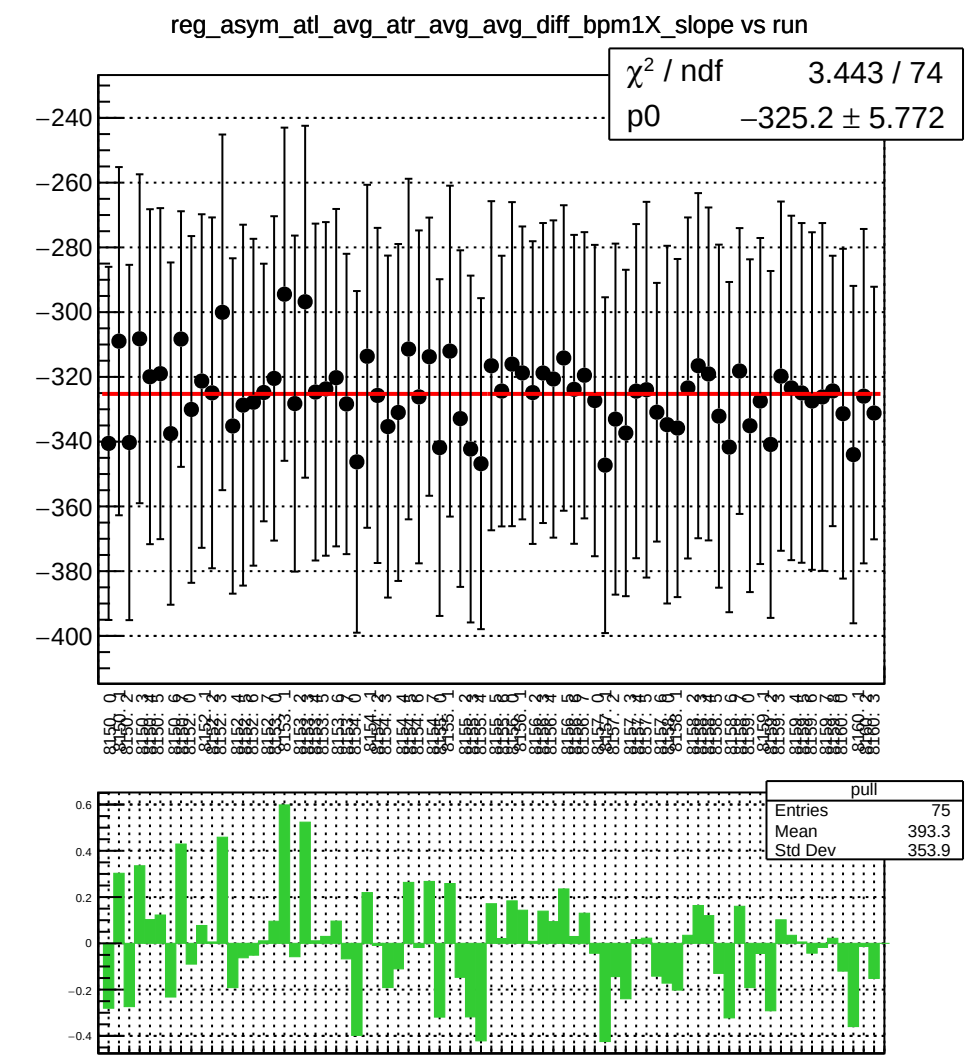

pull1D
Entries 75
Mean 0.005393
Std Dev 0.7933

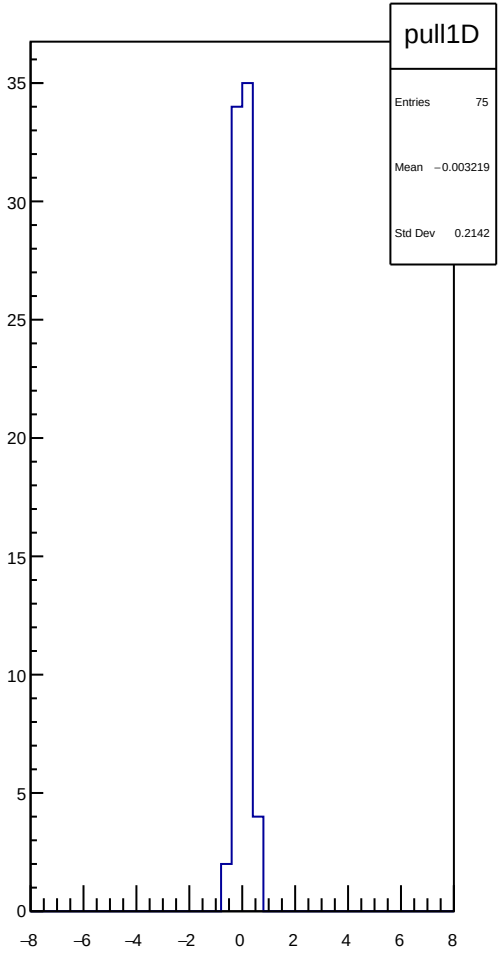

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.08 / 74
p0 −19.34 ± 3.004
pull
Entries 75
Mean 126.5
Std Dev 84.78

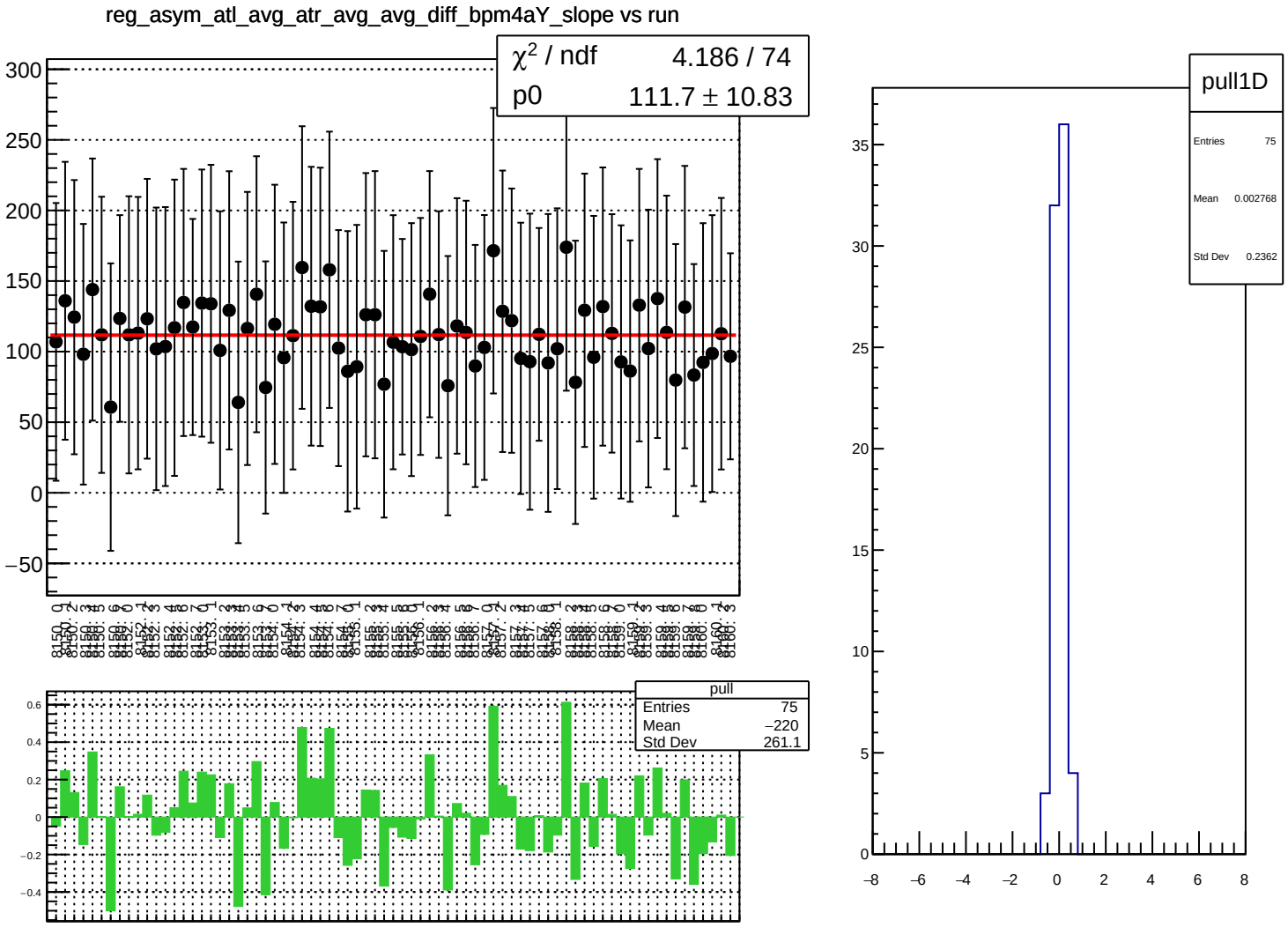

pull1D
Entries 75
Mean 0.01649
Std Dev 0.8645

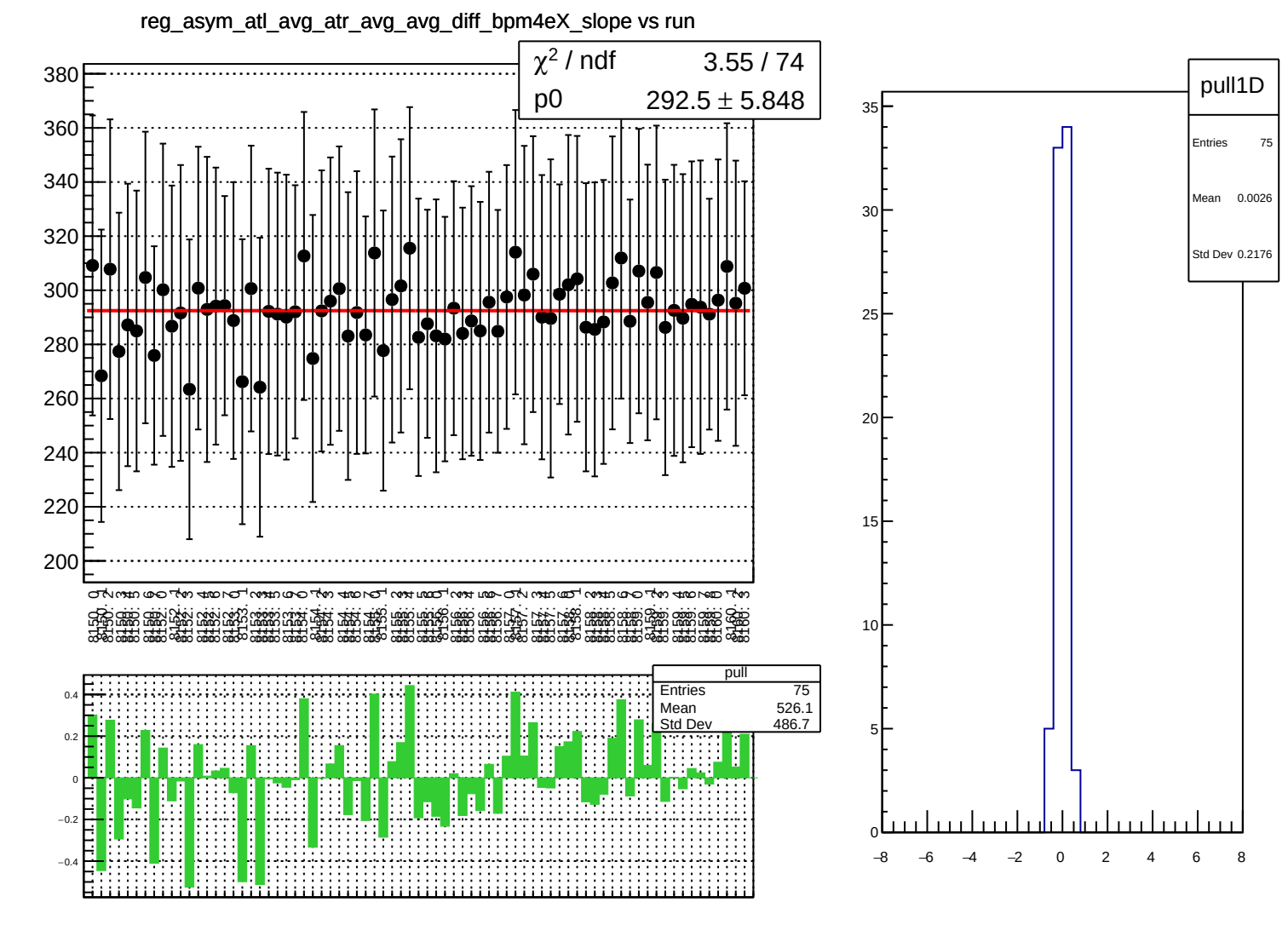

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 56.48 / 74
p0 4.943 ± 0.1409
pull
Entries 75
Mean 131.7
Std Dev 80.5

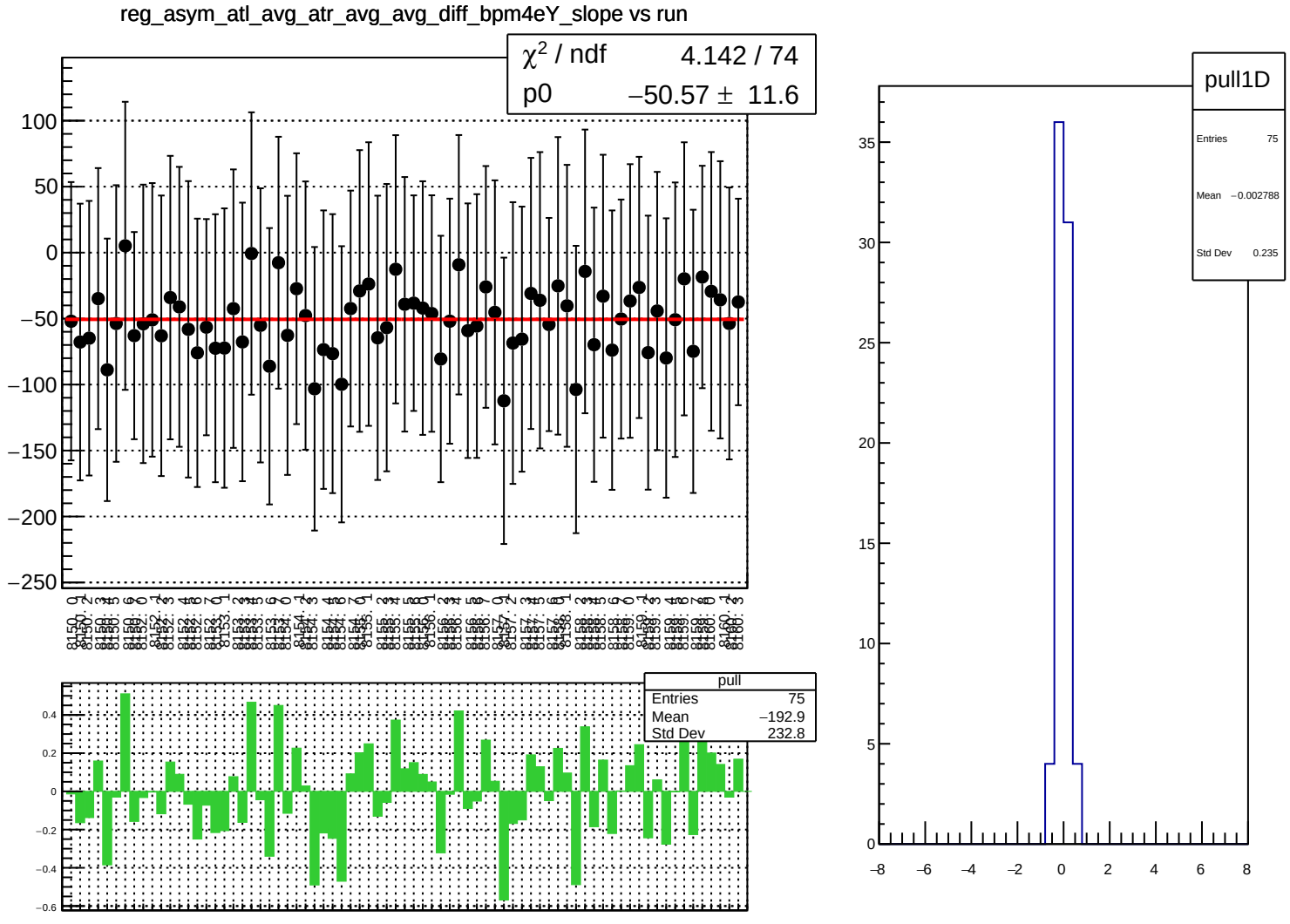

pull1D
Entries 75
Mean 0.005537
Std Dev 0.8678

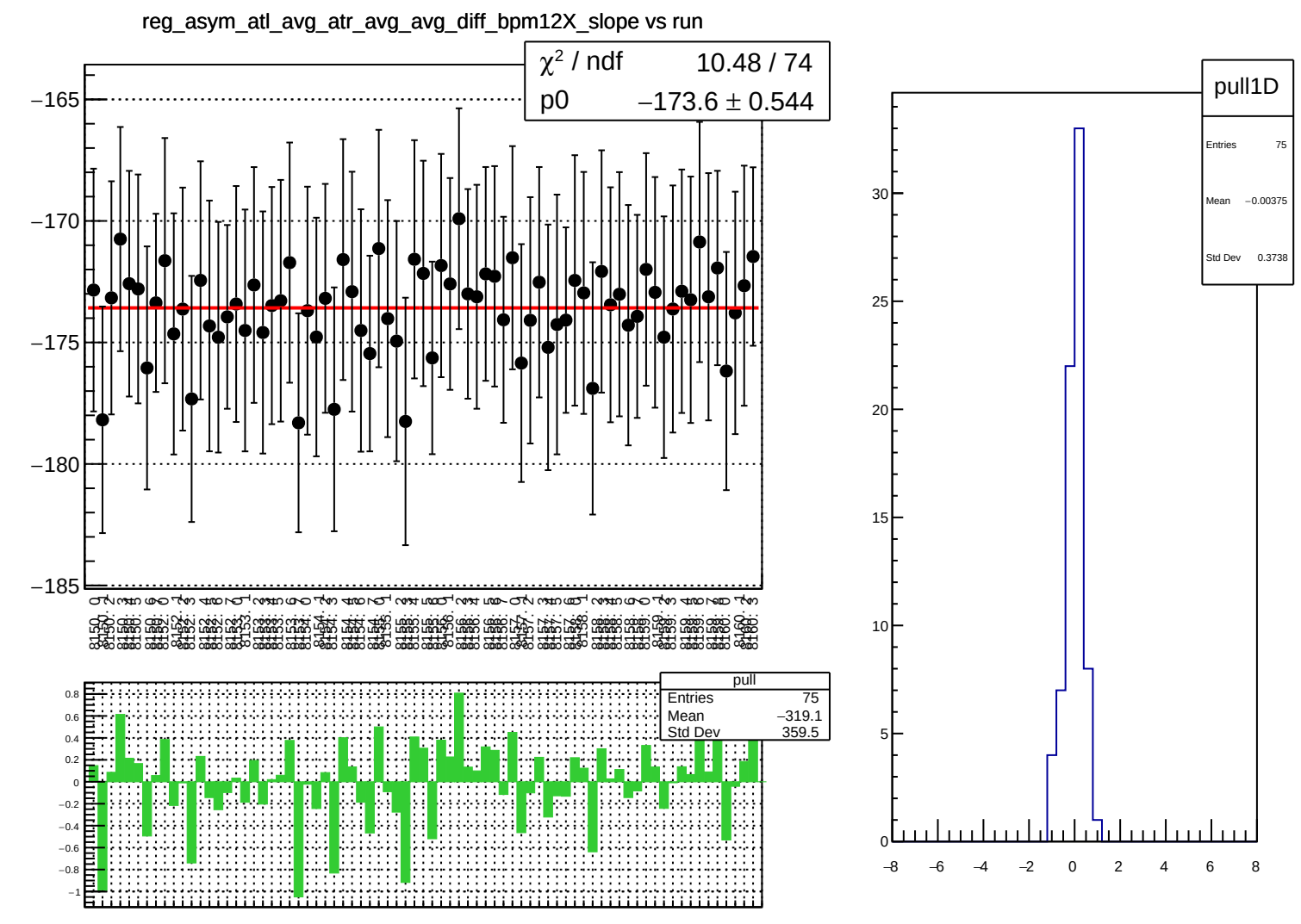

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 3.443 / 74
p0 −325.2 ± 5.772
pull
Entries 75
Mean 393.3
Std Dev 353.9

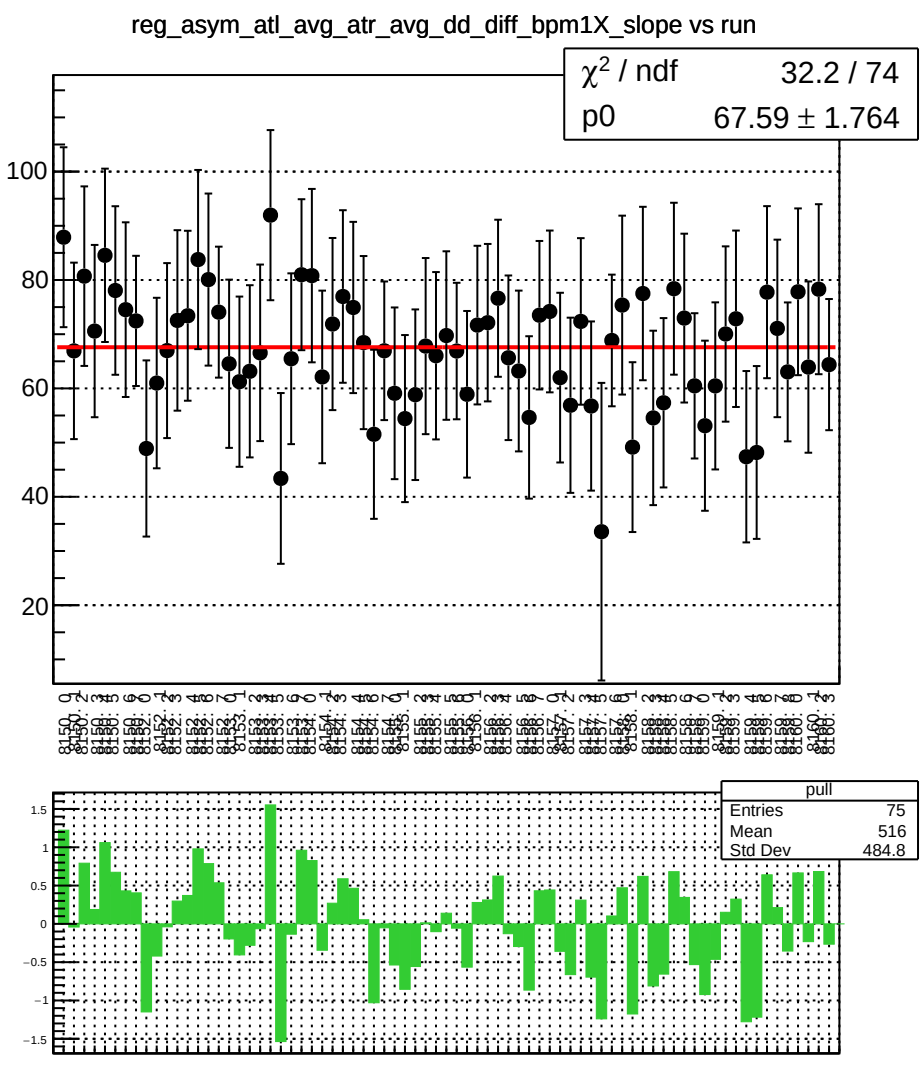

pull1D
Entries 75
Mean −0.003219
Std Dev 0.2142

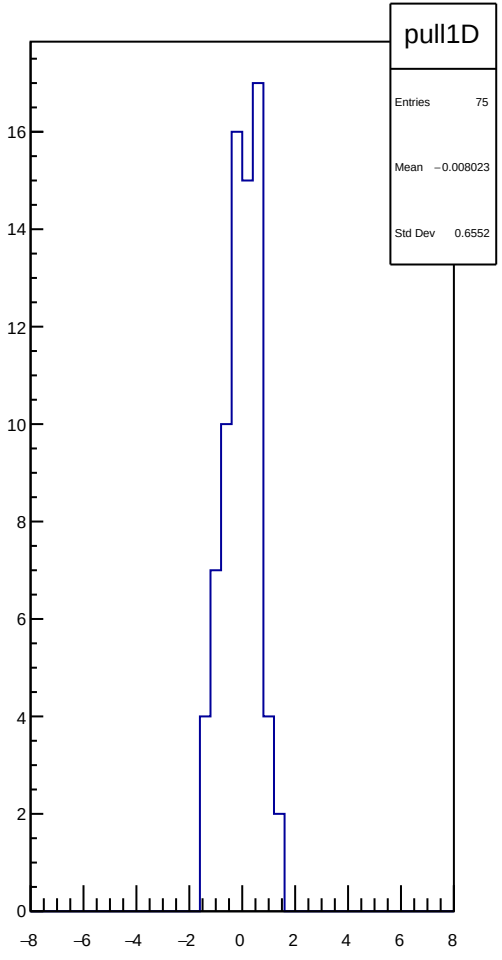

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.186 / 74
p0 111.7 ± 10.83
pull
Entries 75
Mean −220
Std Dev 261.1
pull1D
Entries 75
Mean 0.002768
Std Dev 0.2362

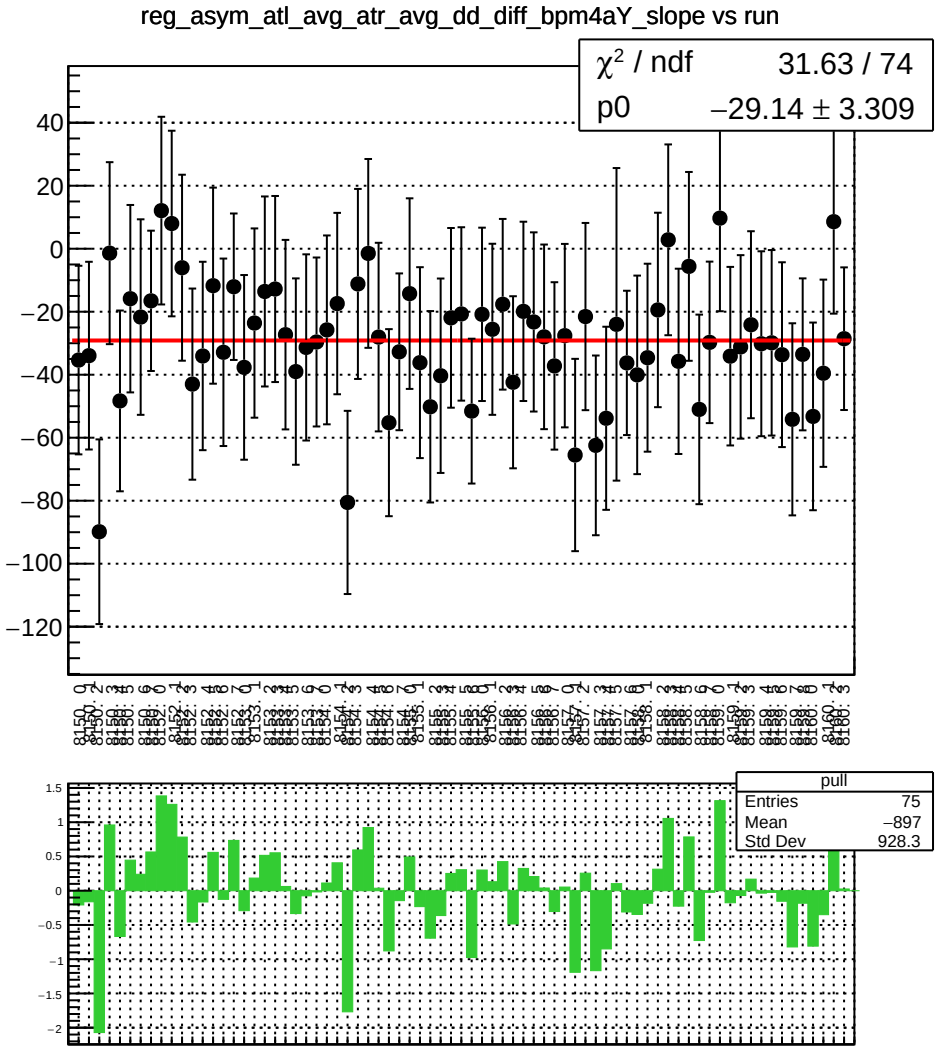

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.55 / 74
p0 292.5 ± 5.848
pull
Entries 75
Mean 526.1
Std Dev 486.7
pull1D
Entries 75
Mean 0.0026
Std Dev 0.2176

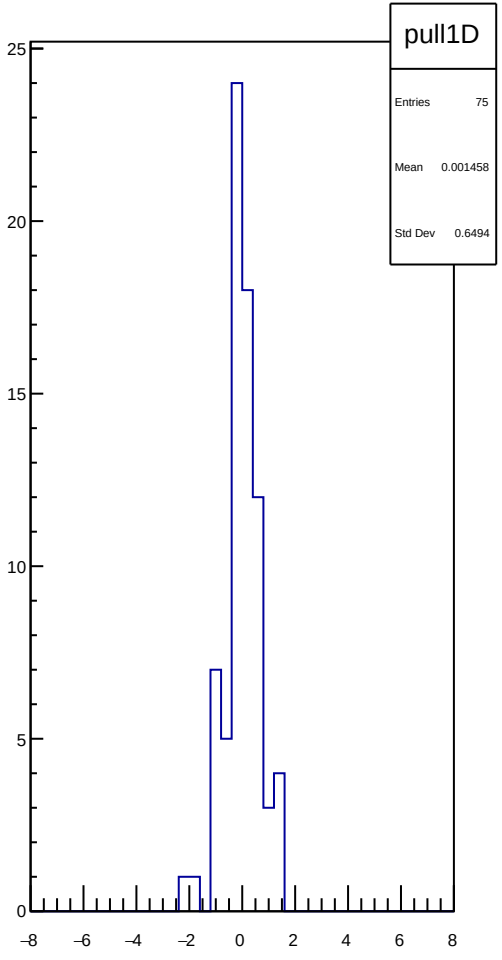

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.142 / 74
p0 −50.57 ± 11.6
pull
Entries 75
Mean −192.9
Std Dev 232.8
pull1D
Entries 75
Mean −0.002788
Std Dev 0.235

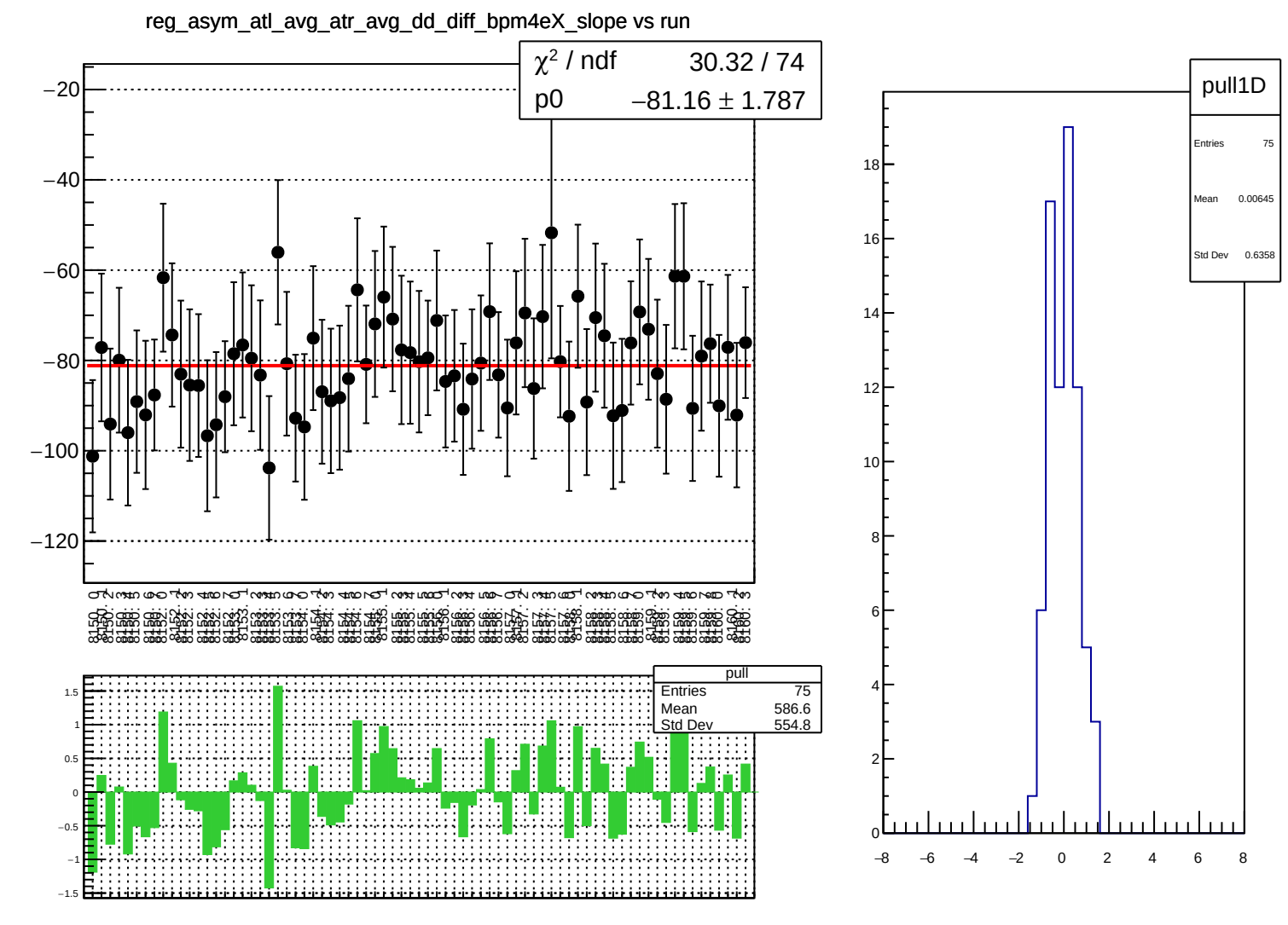

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 10.48 / 74
p0 −173.6 ± 0.544
−165
−170
−175
−180
−185
pull
Entries 75
Mean −319.1
Std Dev 359.5
pull1D
Entries 75
Mean −0.00375
Std Dev 0.3738

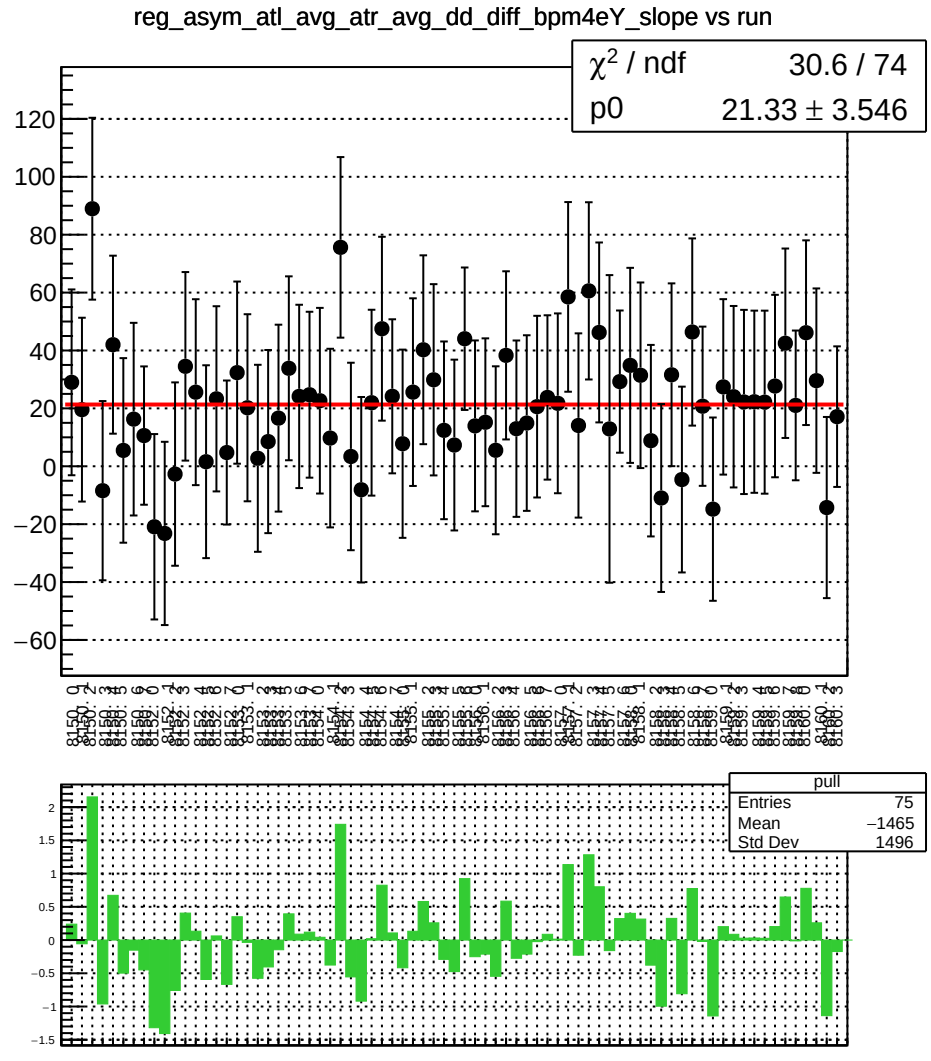

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 32.2 / 74
p0 67.59 ± 1.764
pull
Entries 75
Mean 516
Std Dev 484.8

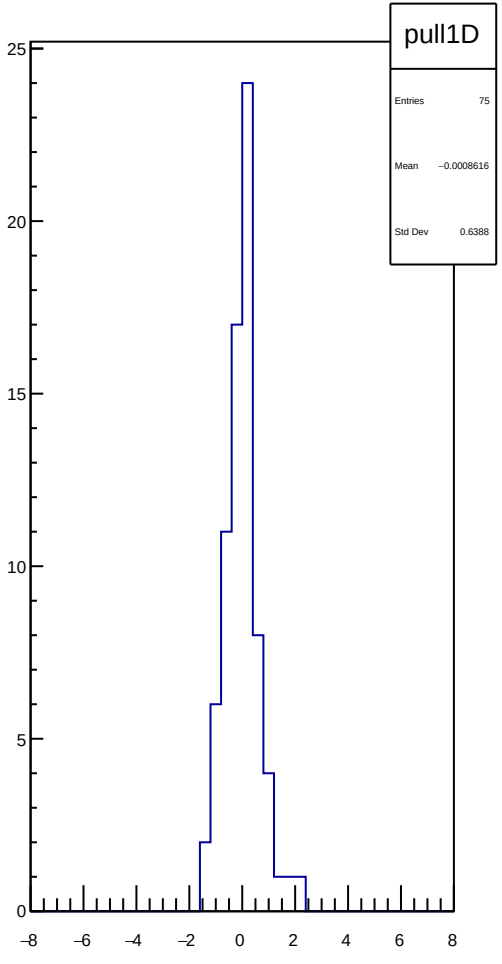

pull1D
Entries 75
Mean −0.008023
Std Dev 0.6552

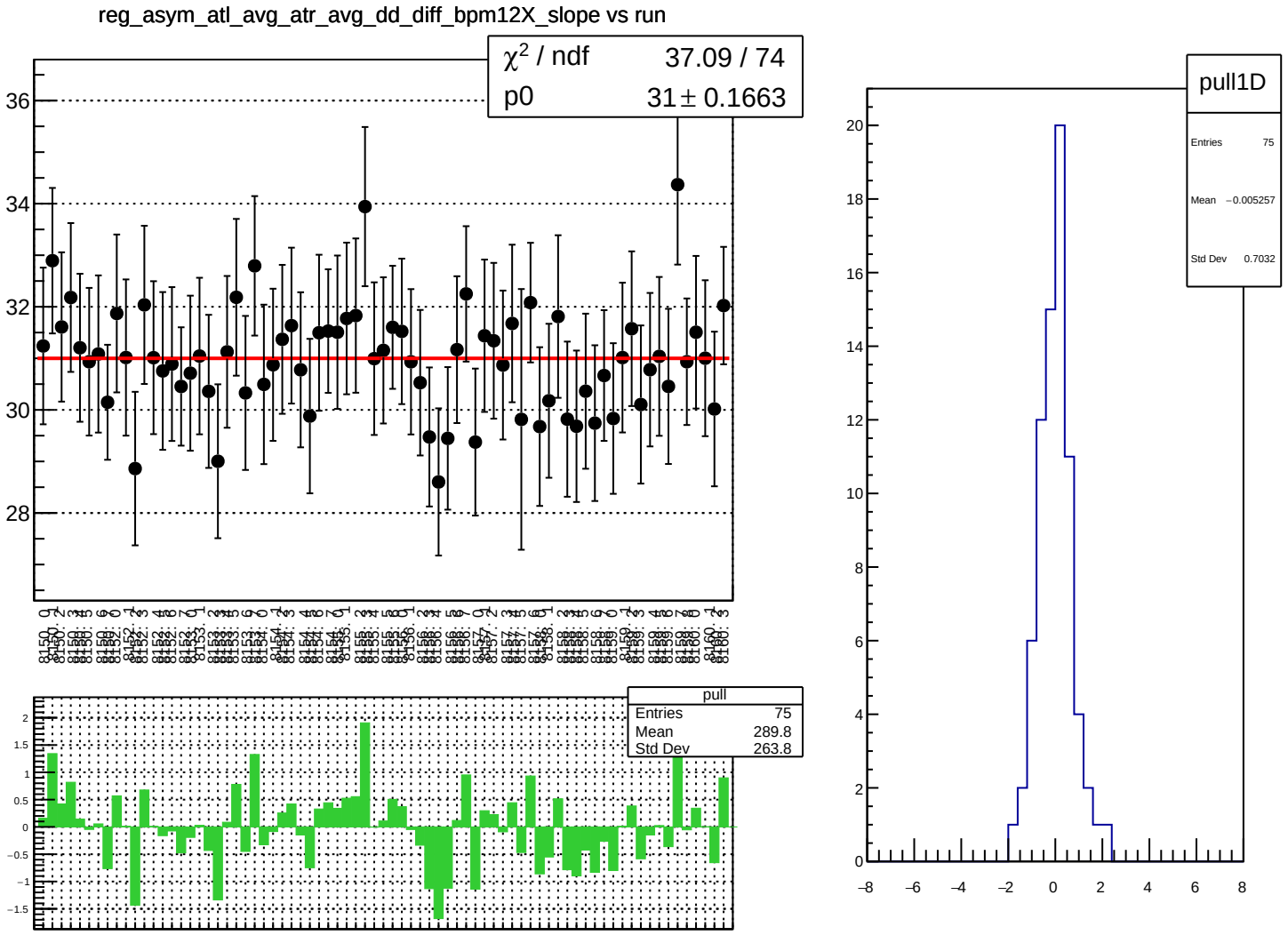

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.63 / 74
p0 −29.14 ± 3.309
pull
Entries 75
Mean −897
Std Dev 928.3

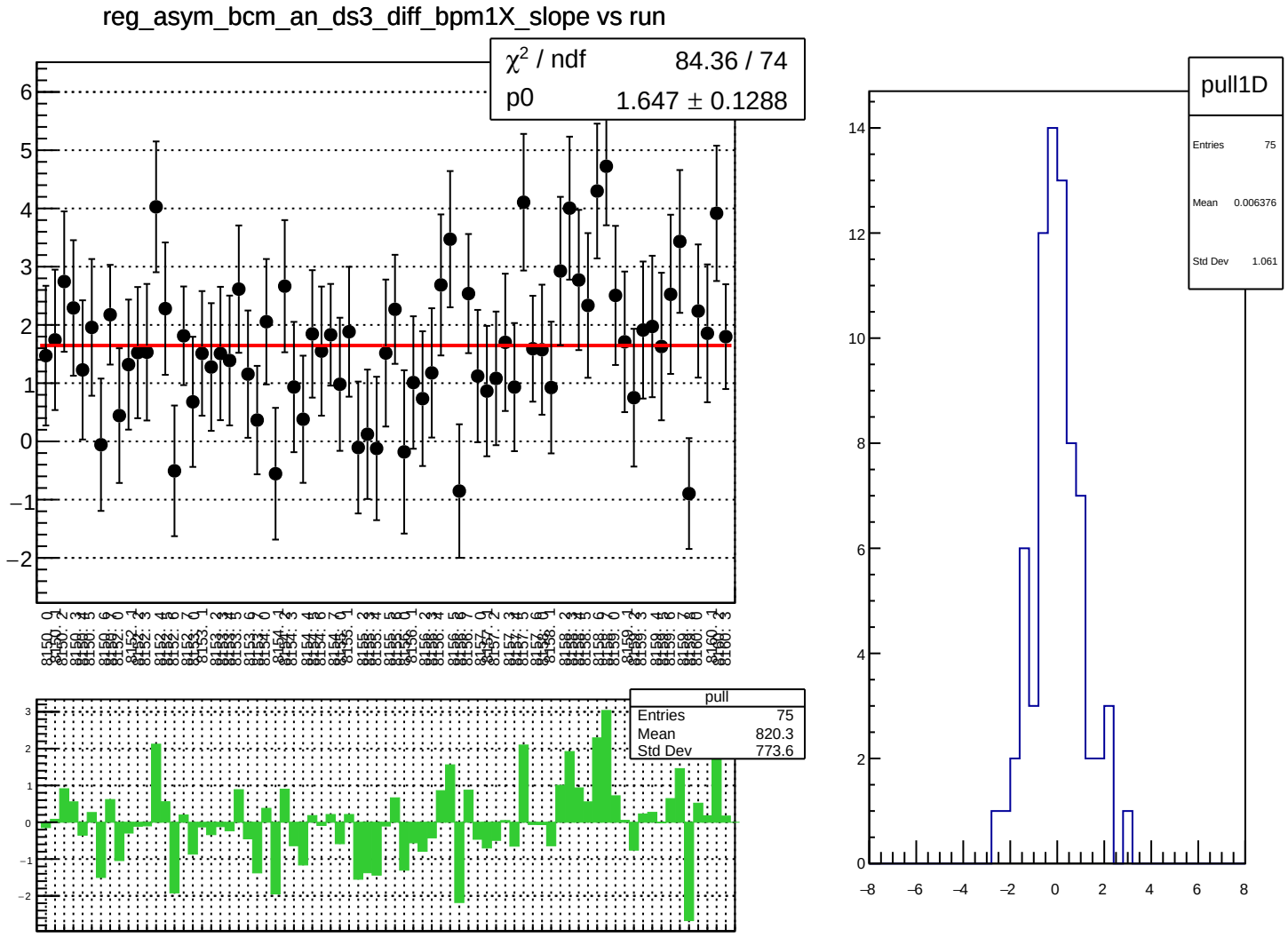

pull1D
Entries 75
Mean 0.001458
Std Dev 0.6494

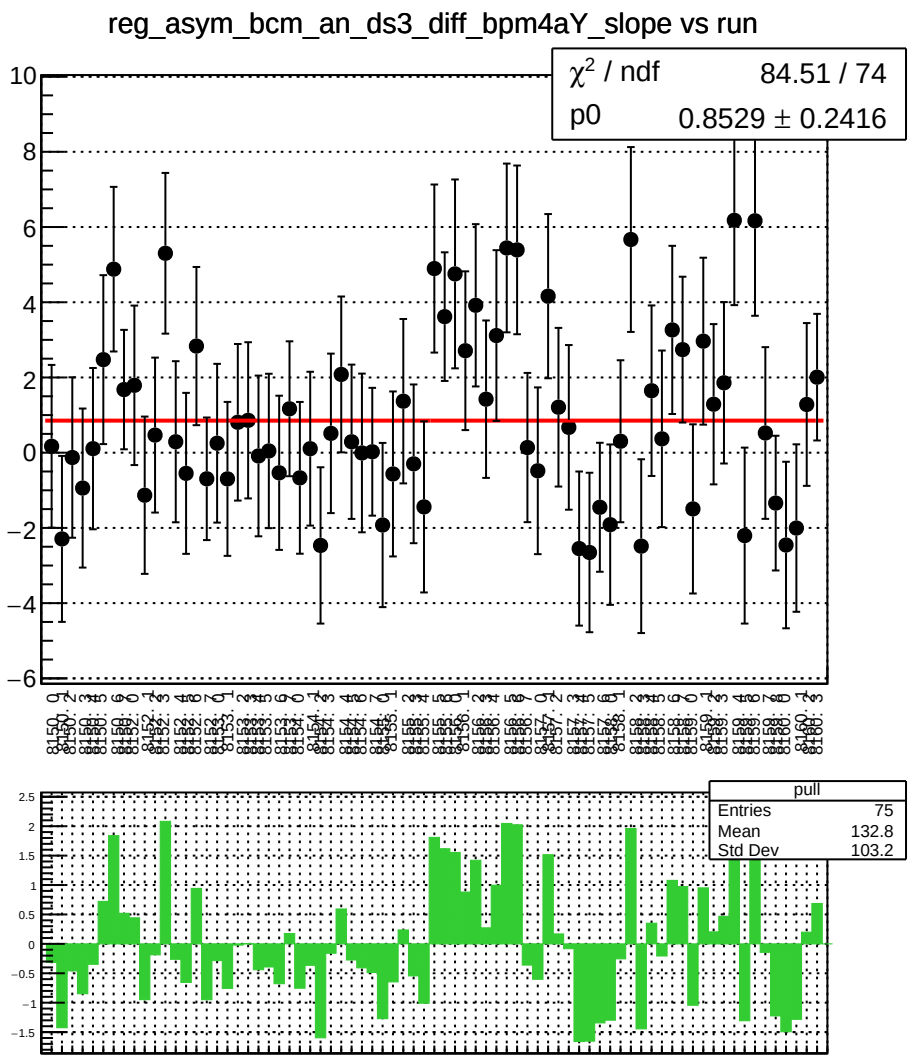

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.32 / 74
p0 −81.16 ± 1.787
pull
Entries 75
Mean 586.6
Std Dev 554.8
pull1D
Entries 75
Mean 0.00645
Std Dev 0.6358

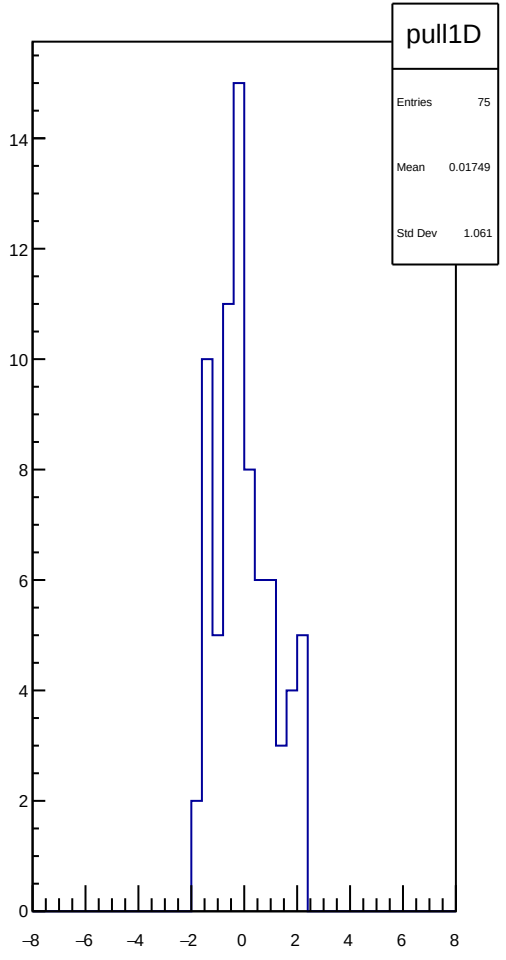

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.6 / 74
p0 21.33 ± 3.546
pull
Entries 75
Mean −1465
Std Dev 1496

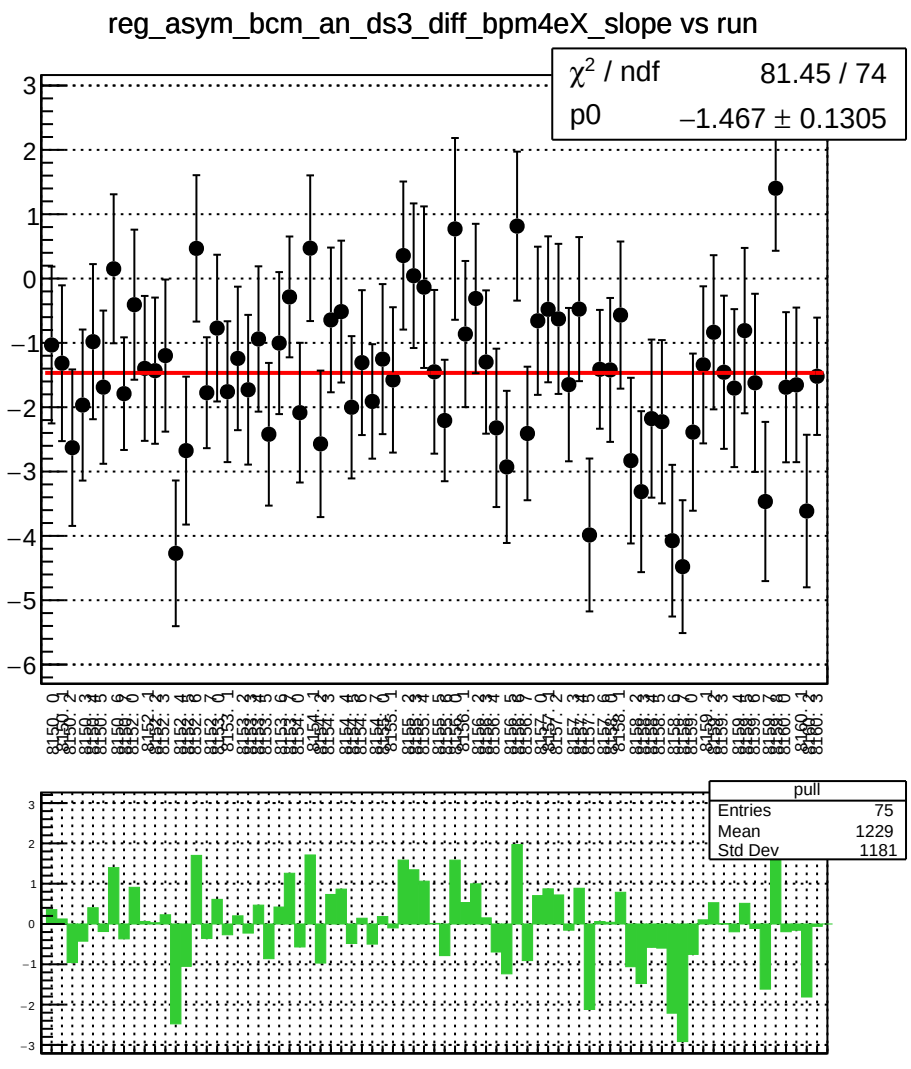

pull1D
Entries 75
Mean −0.0008616
Std Dev 0.6388

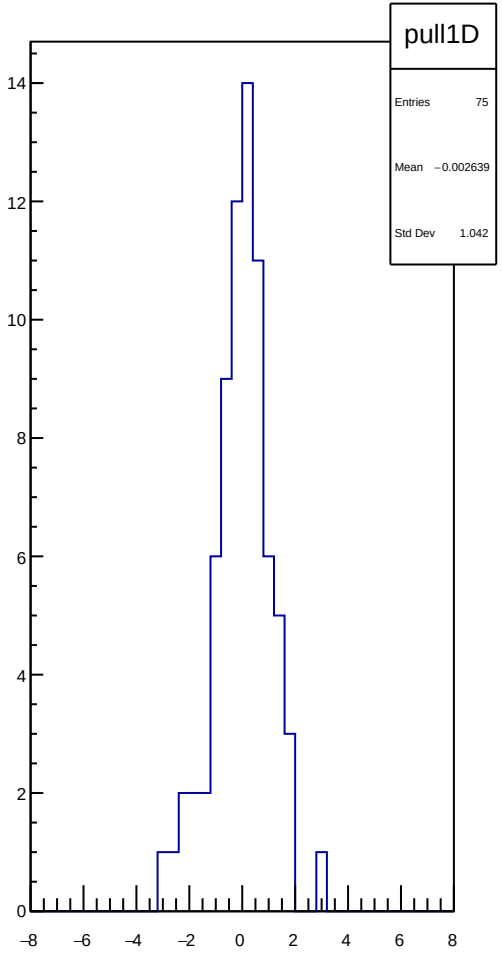

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 37.09 / 74
p0 31 ± 0.1663
pull
Entries 75
Mean 289.8
Std Dev 263.8
pull1D
Entries 75
Mean −0.005257
Std Dev 0.7032

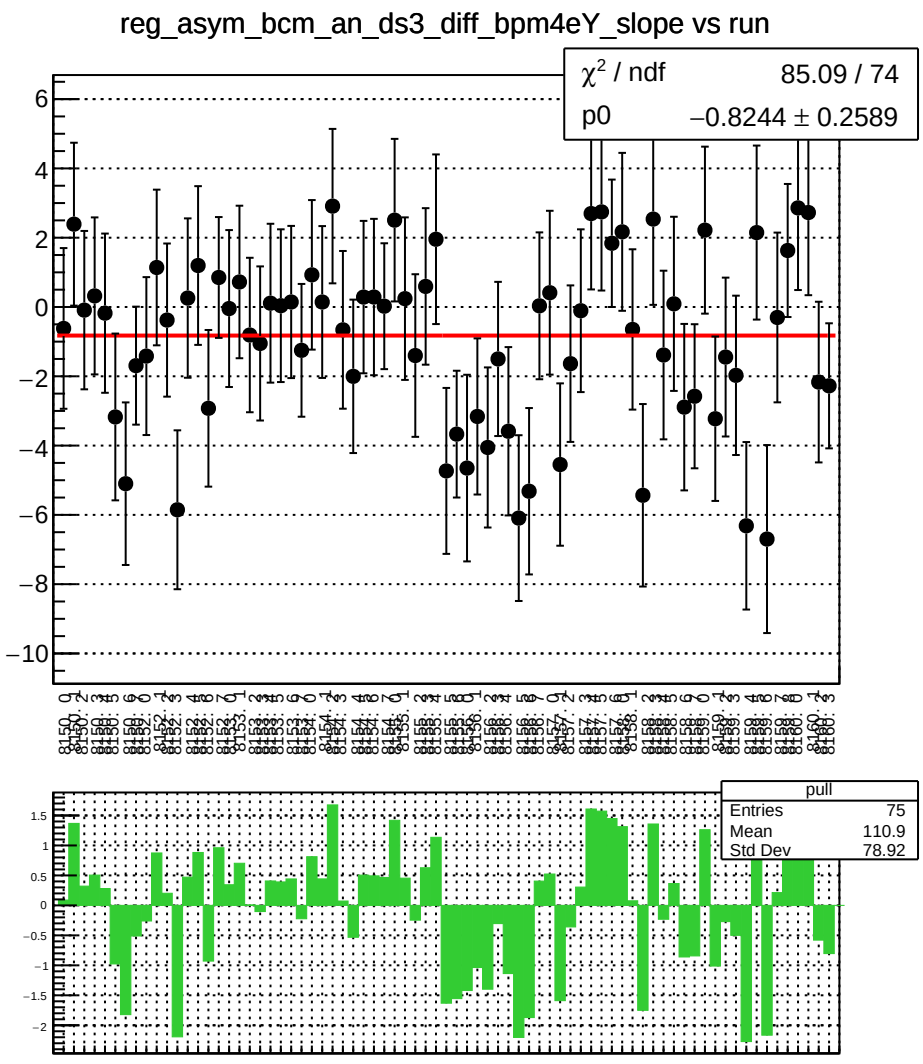

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 84.36 / 74
p0 1.647 ± 0.1288
pull
Entries 75
Mean 820.3
Std Dev 773.6
pull1D
Entries 75
Mean 0.006376
Std Dev 1.061

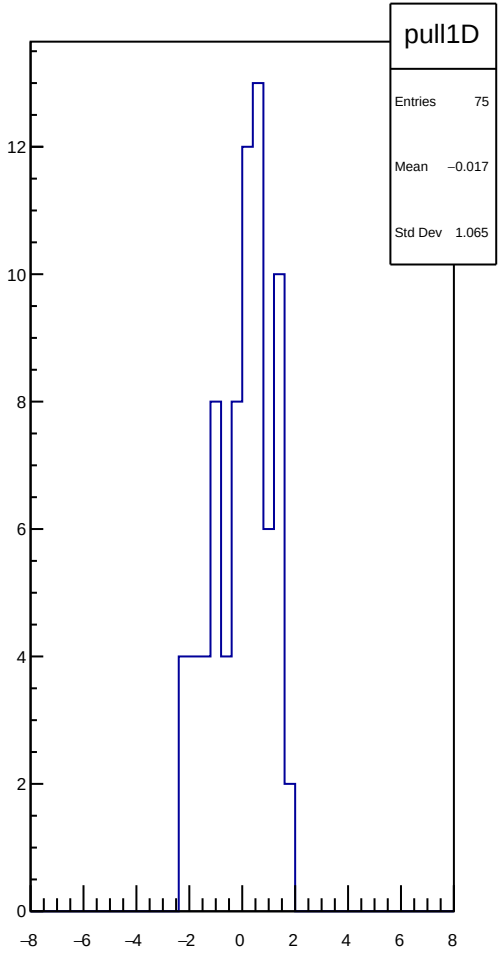

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 84.51 / 74
p0 0.8529 ± 0.2416
pull
Entries 75
Mean 132.8
Std Dev 103.2

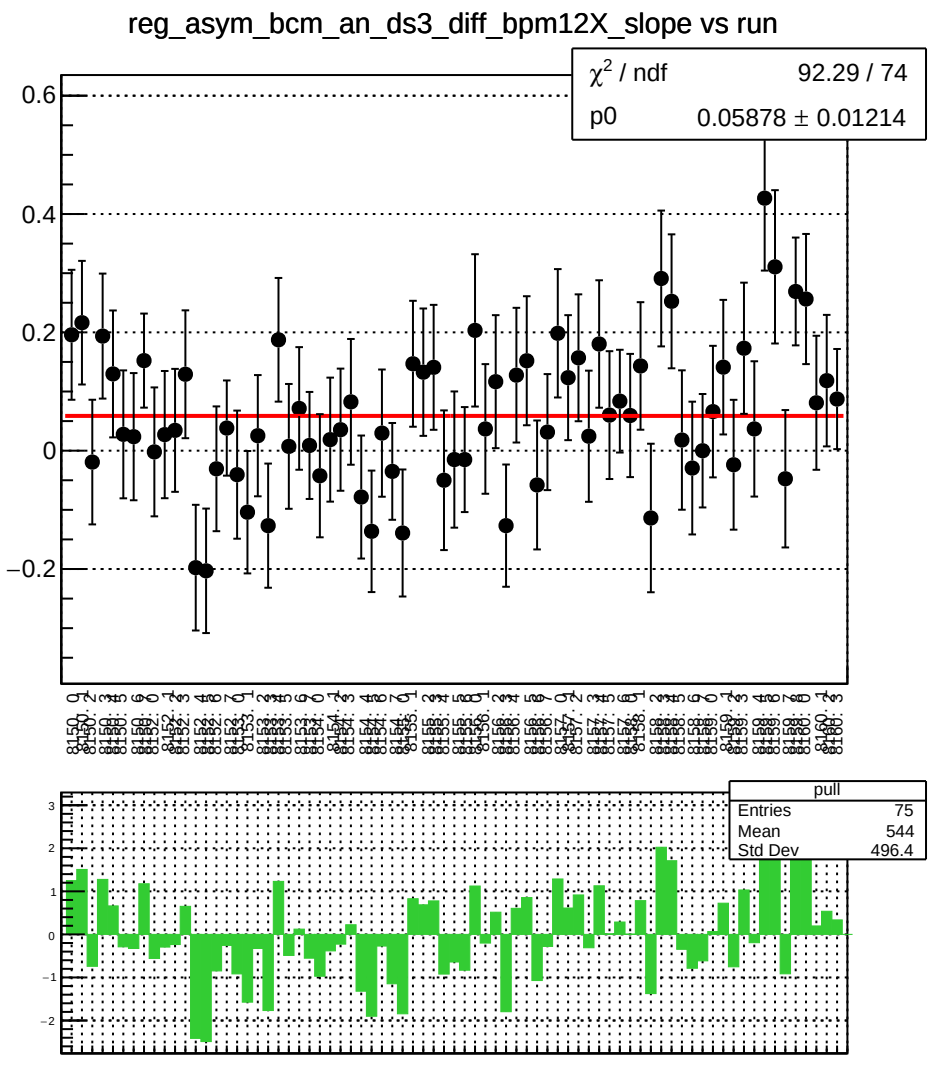

pull1D
Entries 75
Mean 0.01749
Std Dev 1.061

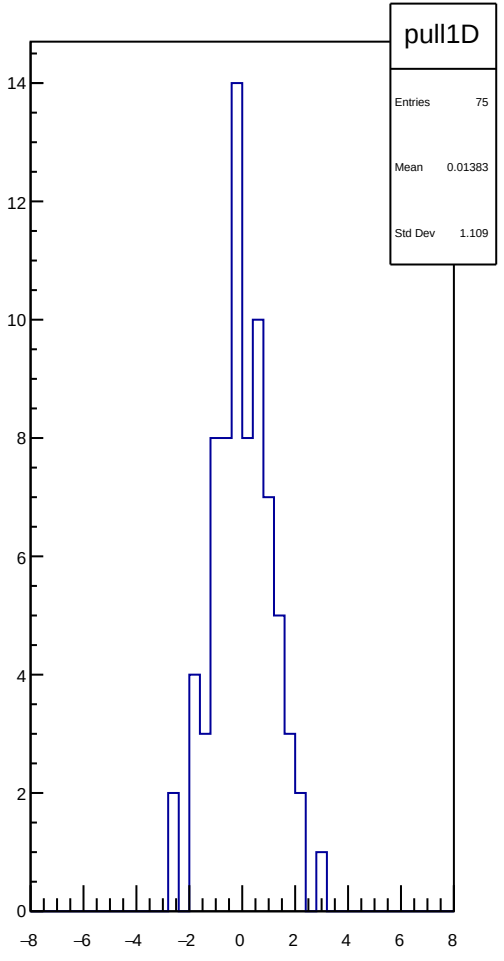

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 81.45 / 74
p0 −1.467 ± 0.1305
pull
Entries 75
Mean 1229
Std Dev 1181

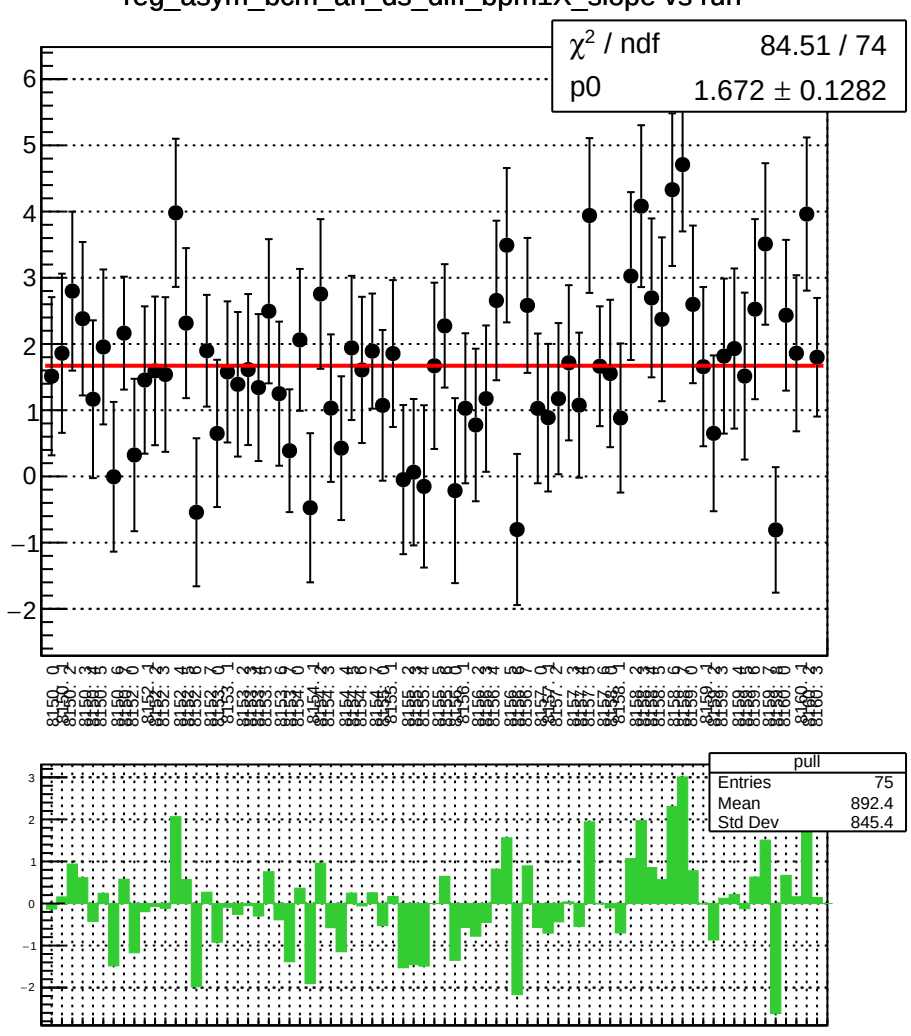

pull1D
Entries 75
Mean −0.002639
Std Dev 1.042

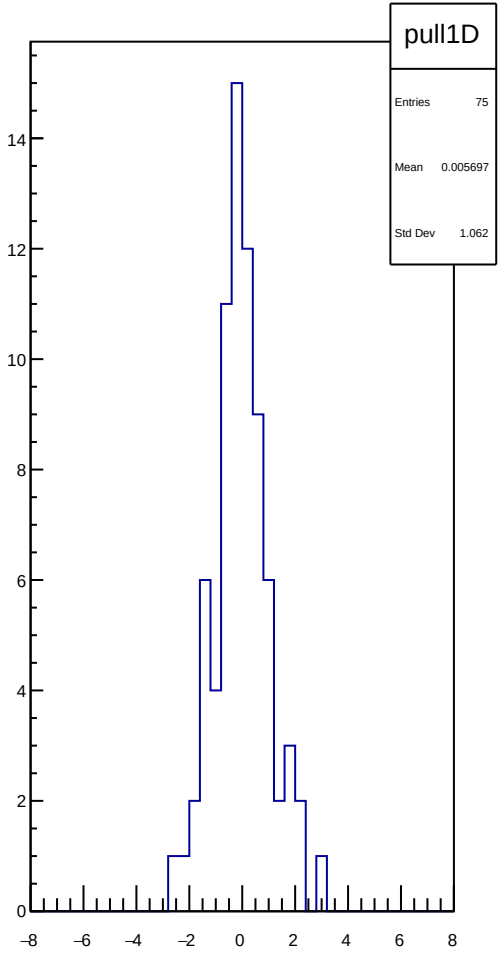

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 85.09 / 74
p0 −0.8244 ± 0.2589
pull
Entries 75
Mean 110.9
Std Dev 78.92

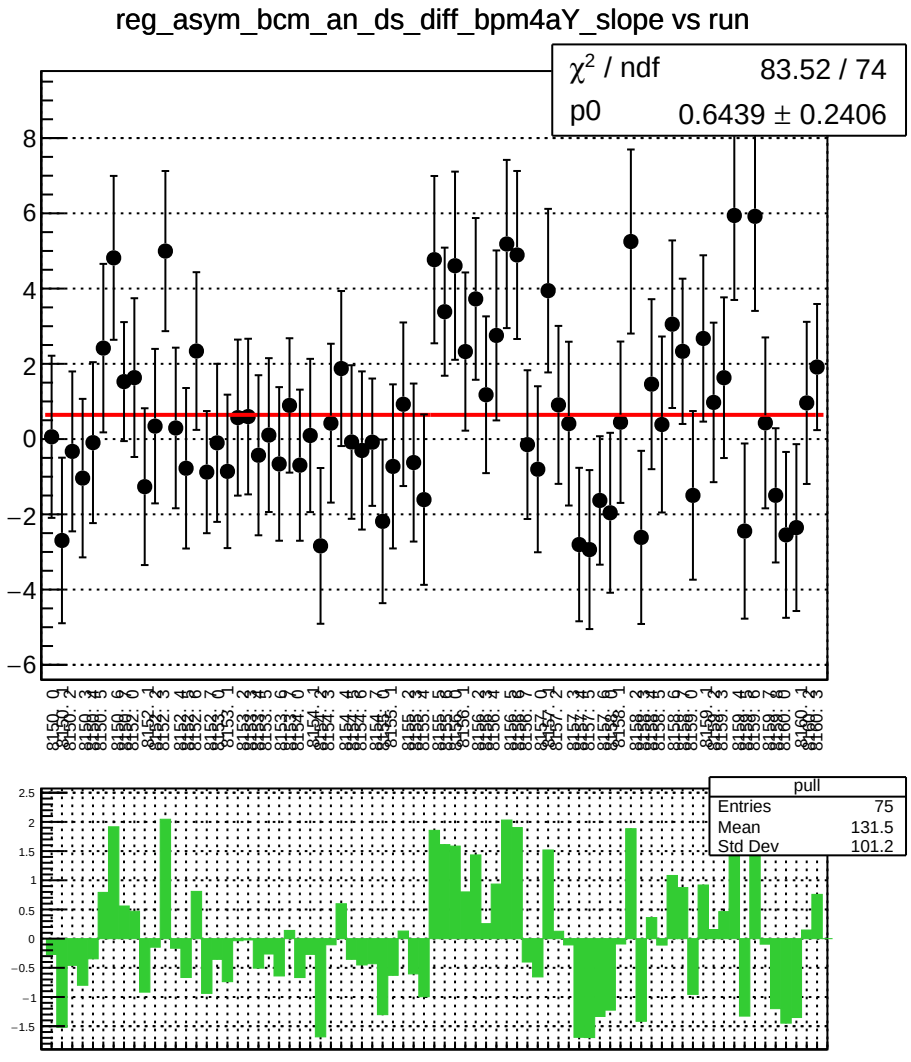

pull1D
Entries 75
Mean −0.017
Std Dev 1.065

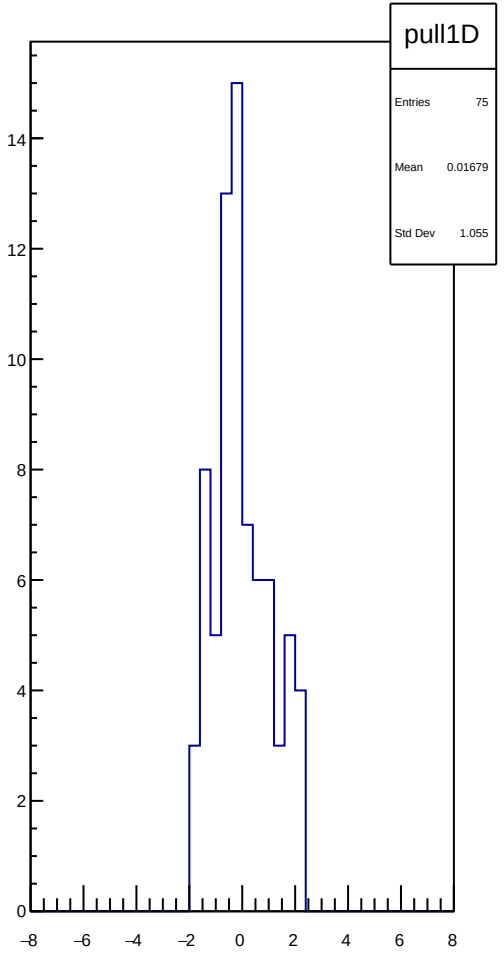

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 92.29 / 74
p0 0.05878 ± 0.01214
pull
Entries 75
Mean 544
Std Dev 496.4

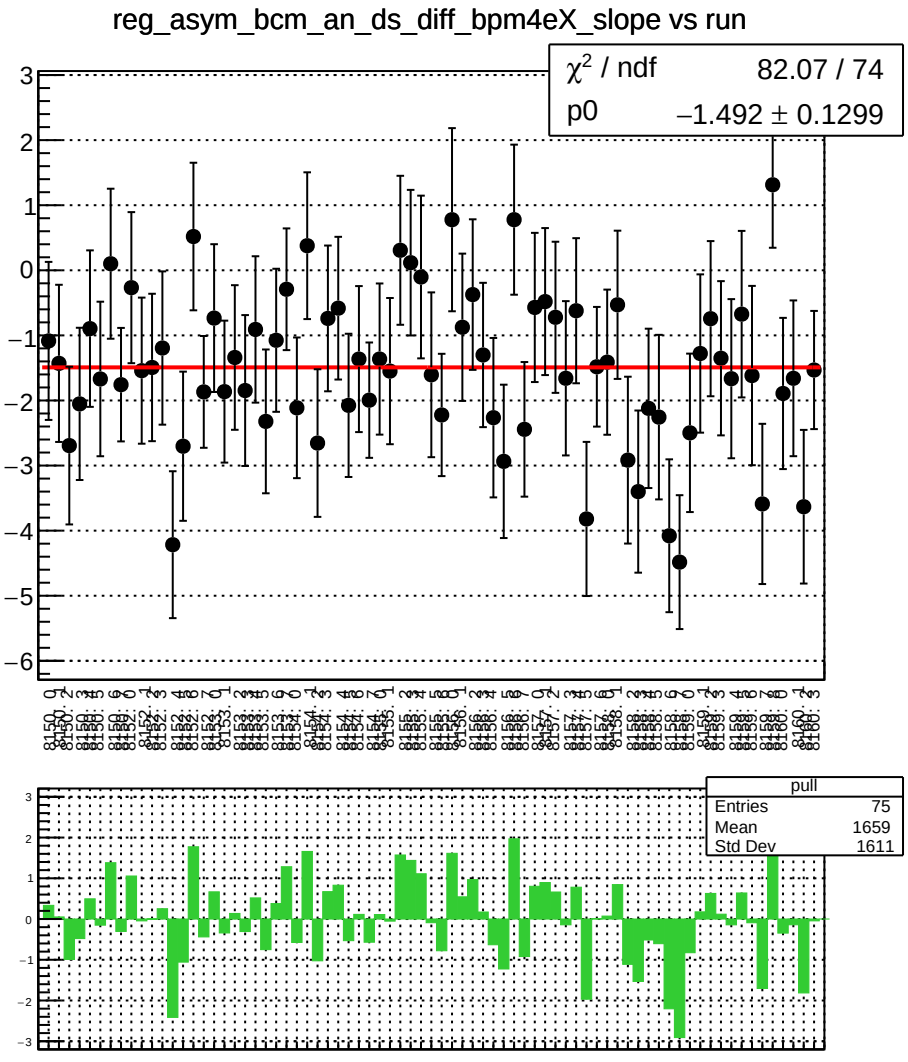

pull1D
Entries 75
Mean 0.01383
Std Dev 1.109

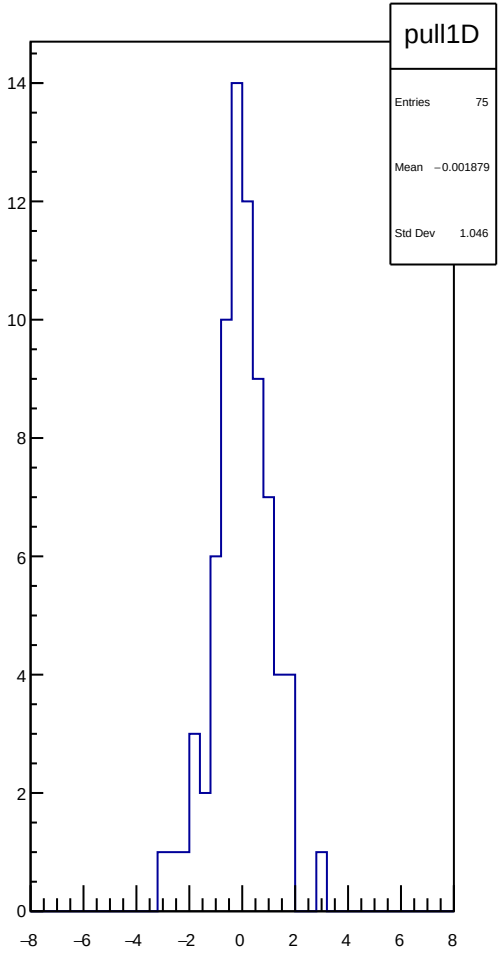

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 84.51 / 74
p0 1.672 ± 0.1282
pull
Entries 75
Mean 892.4
Std Dev 845.4

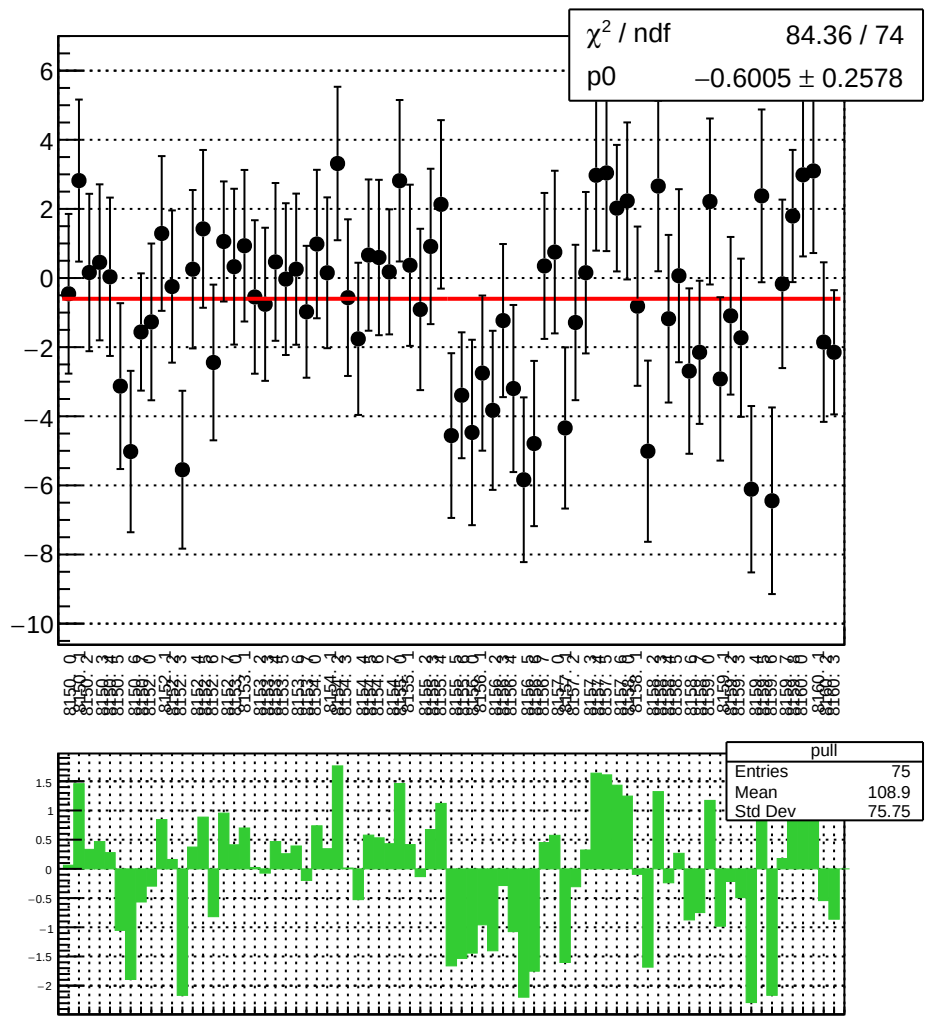

pull1D
Entries 75
Mean 0.005697
Std Dev 1.062

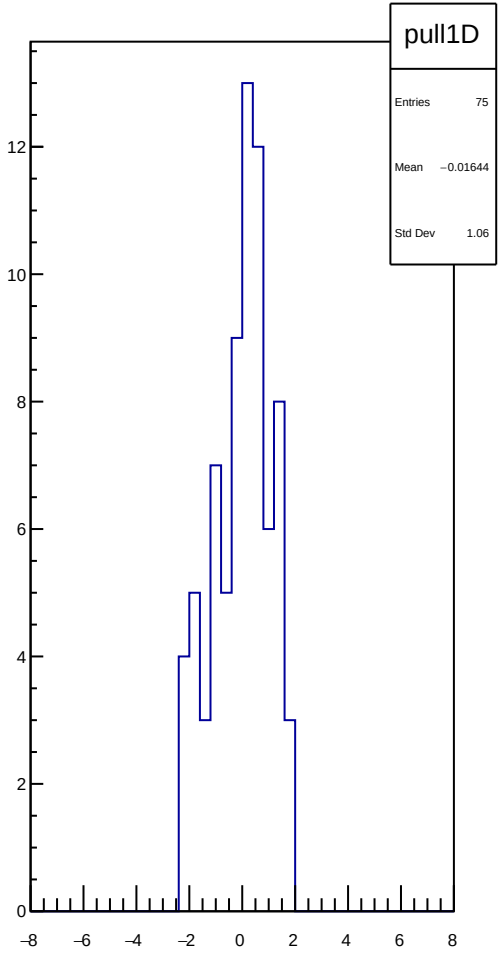

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 83.52 / 74
p0 0.6439 ± 0.2406
pull
Entries 75
Mean 131.5
Std Dev 101.2

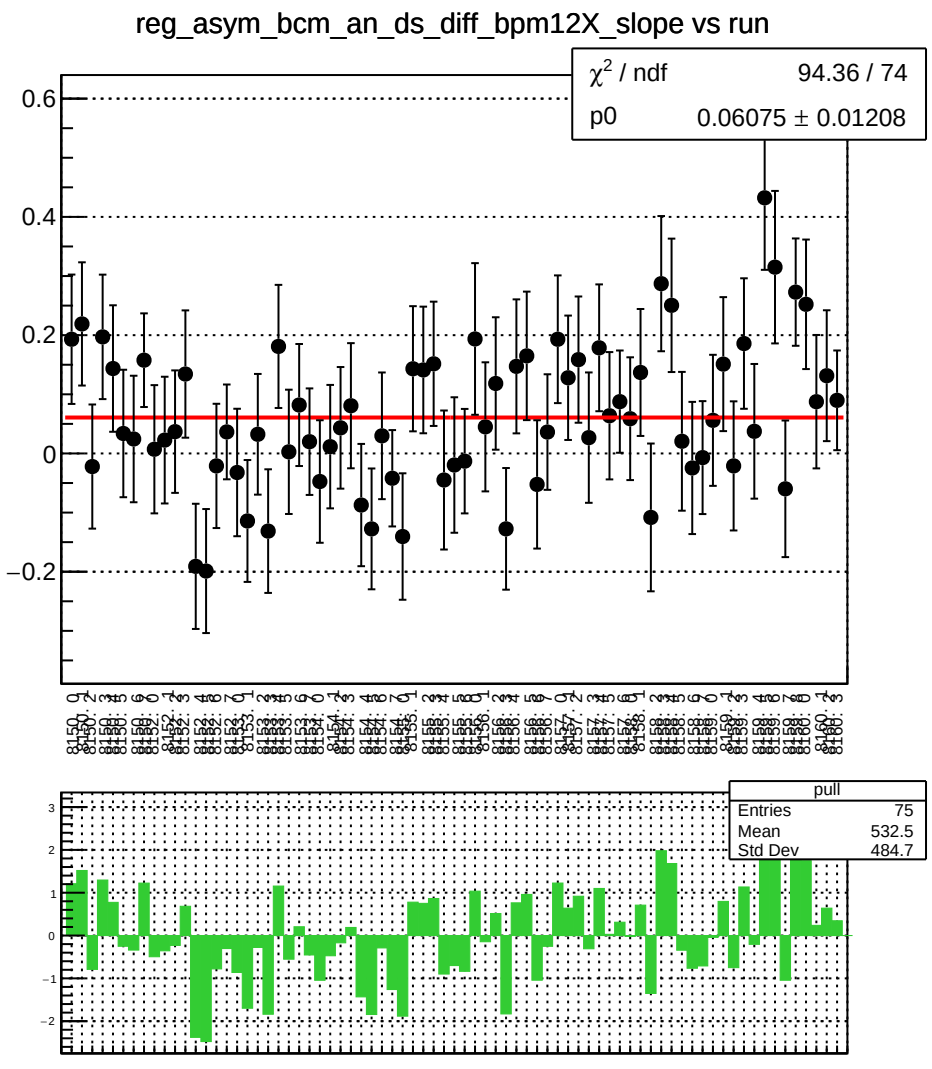

pull1D
Entries 75
Mean 0.01679
Std Dev 1.055

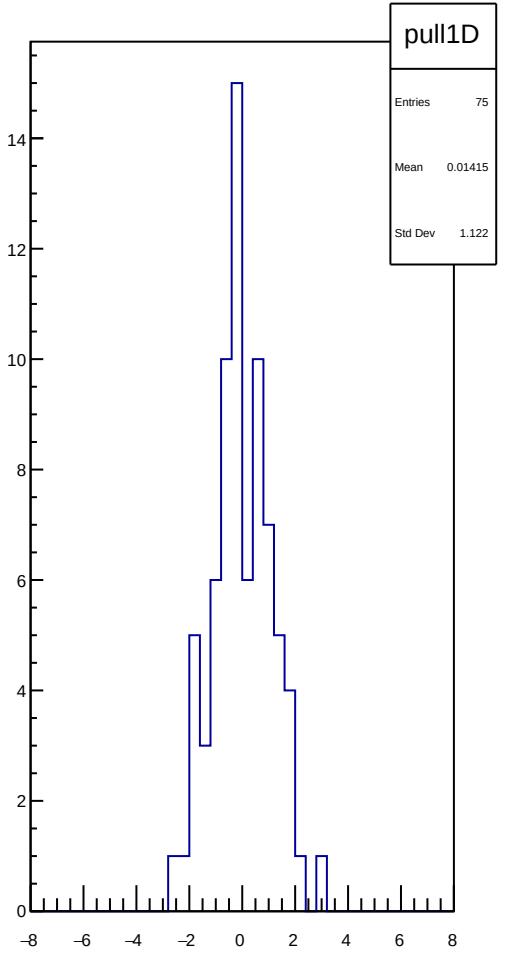

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 82.07 / 74
p0 −1.492 ± 0.1299
pull
Entries 75
Mean 1659
Std Dev 1611

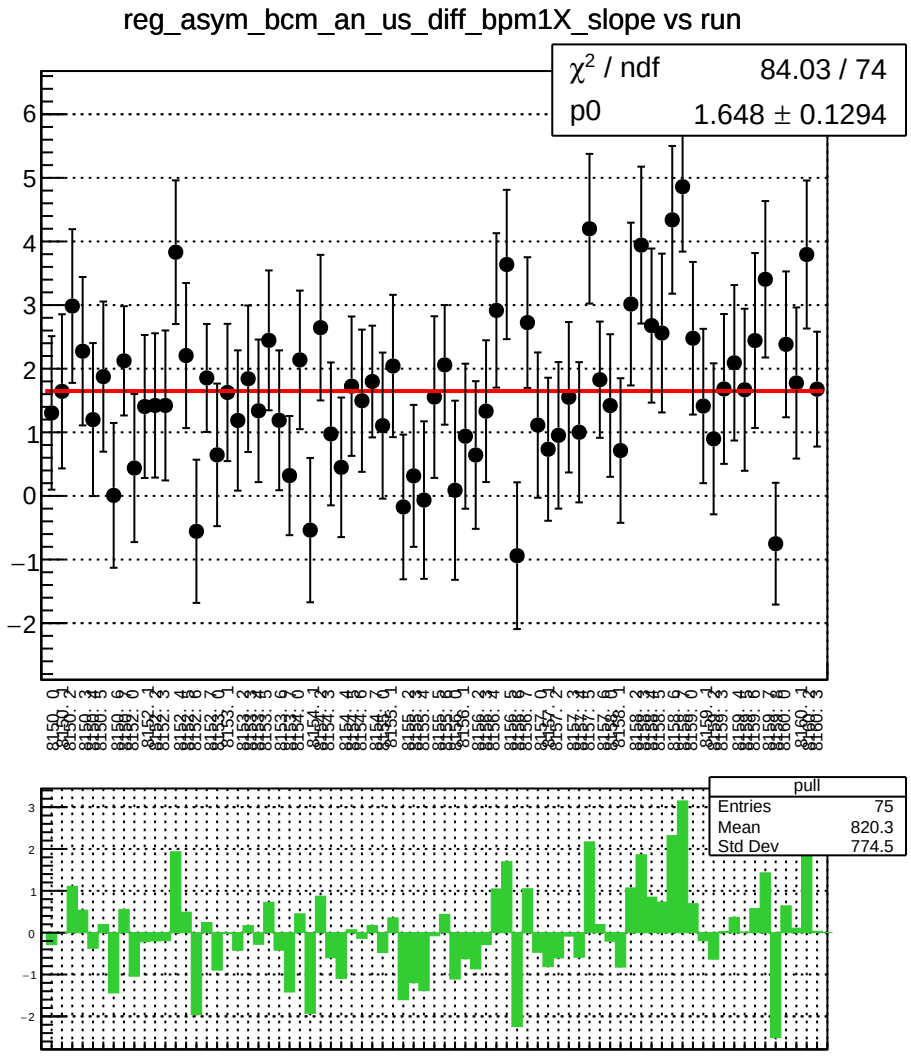

pull1D
Entries 75
Mean −0.001879
Std Dev 1.046

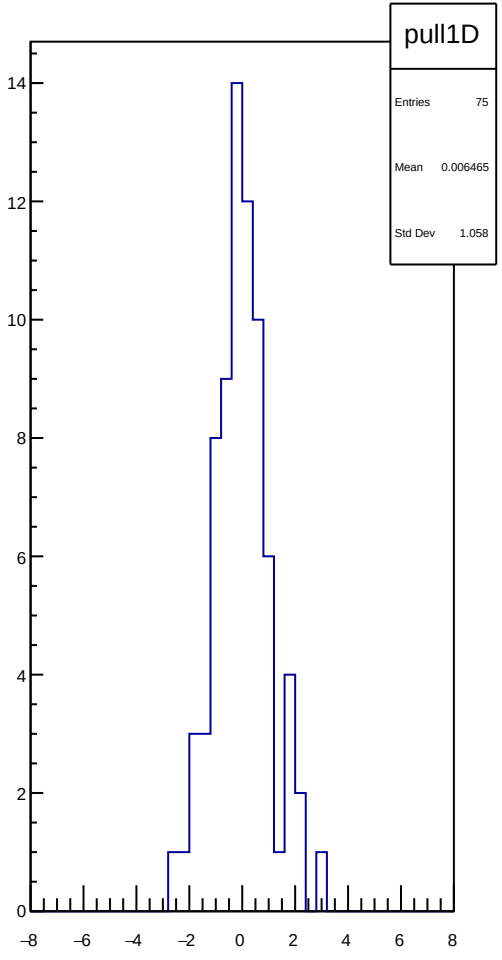

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 84.36 / 74
p0 −0.6005 ± 0.2578
pull
Entries 75
Mean 108.9
Std Dev 75.75

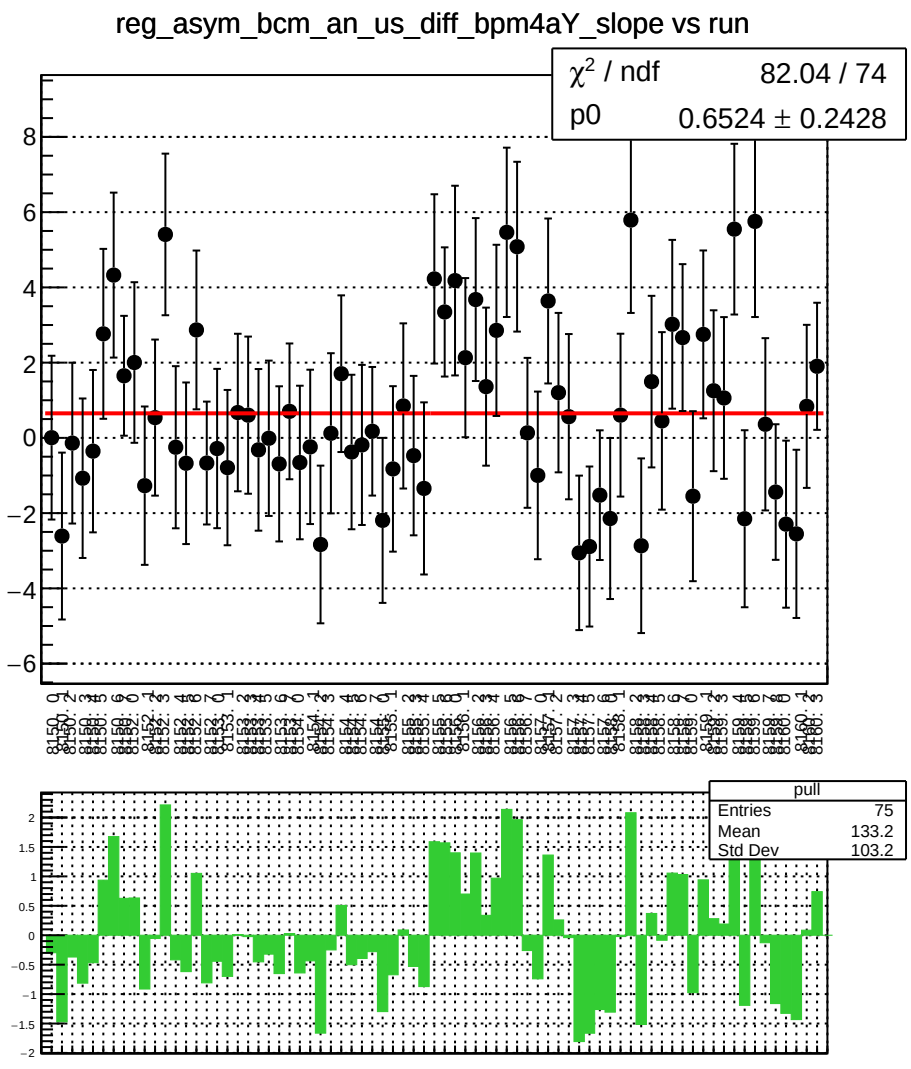

pull1D
Entries 75
Mean −0.01644
Std Dev 1.06

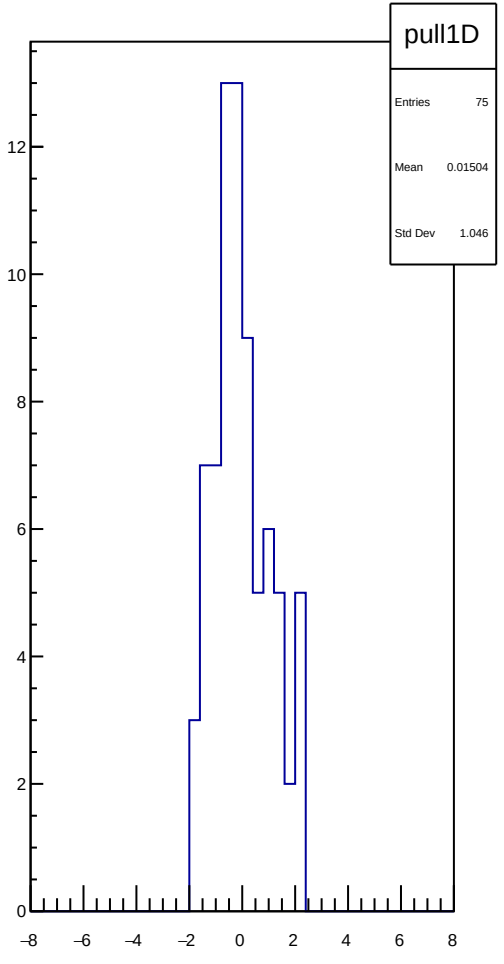

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 94.36 / 74
p0 0.06075 ± 0.01208
pull
Entries 75
Mean 532.5
Std Dev 484.7

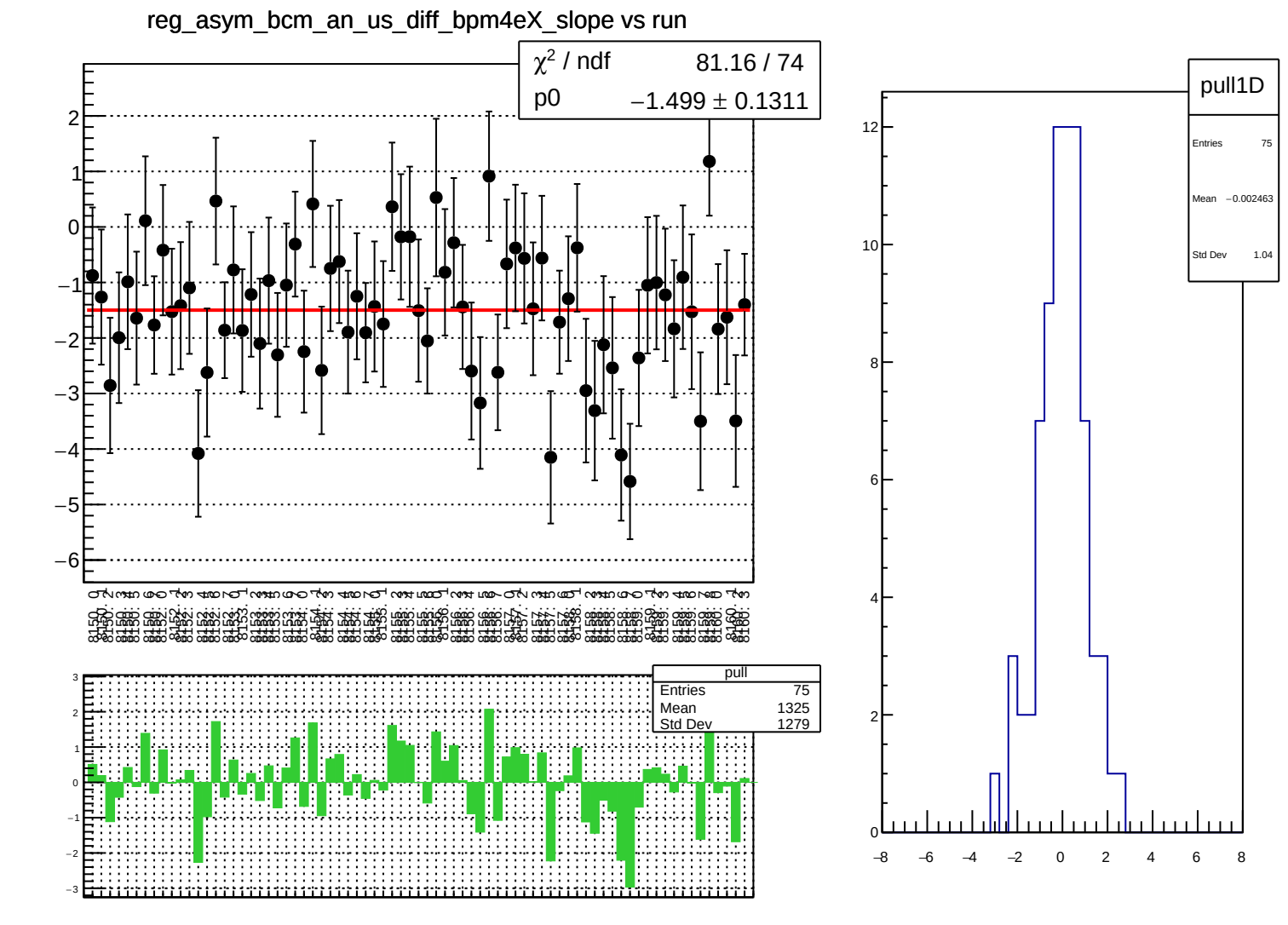

pull1D
Entries 75
Mean 0.01415
Std Dev 1.122

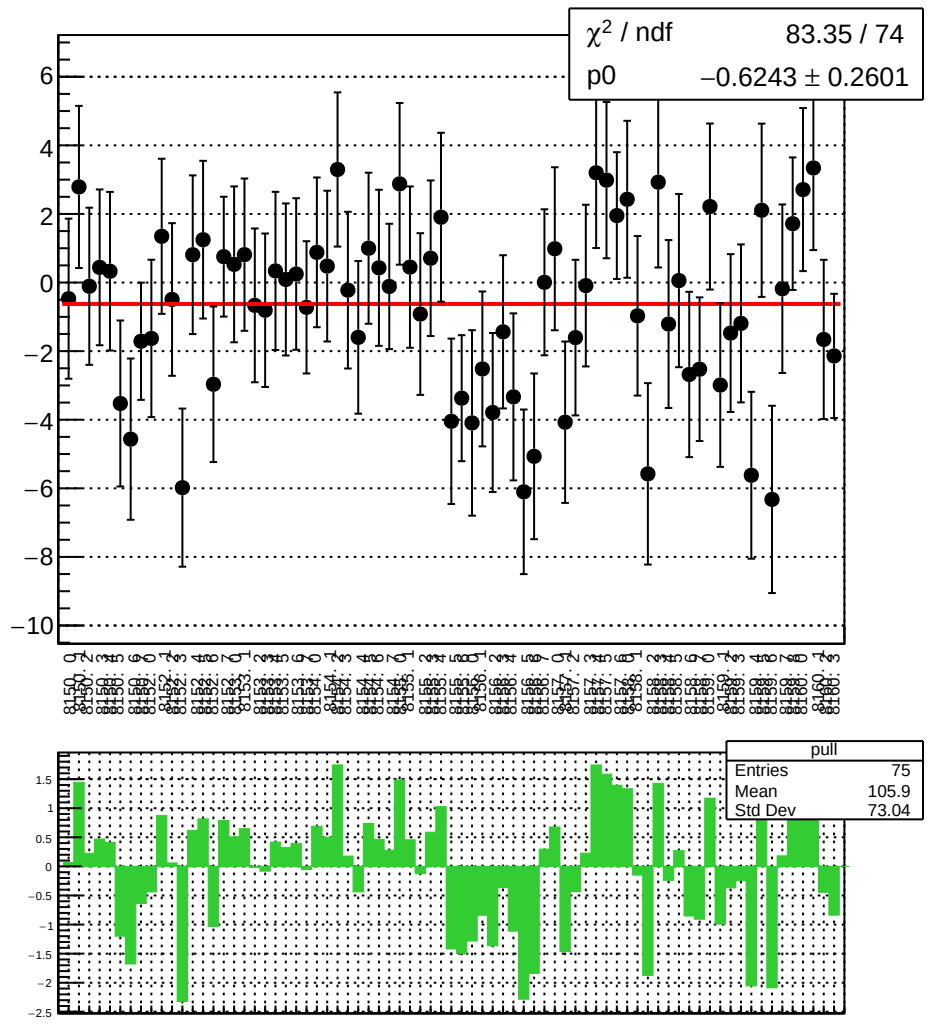

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 84.03 / 74
p0 1.648 ± 0.1294
pull
Entries 75
Mean 820.3
Std Dev 774.5

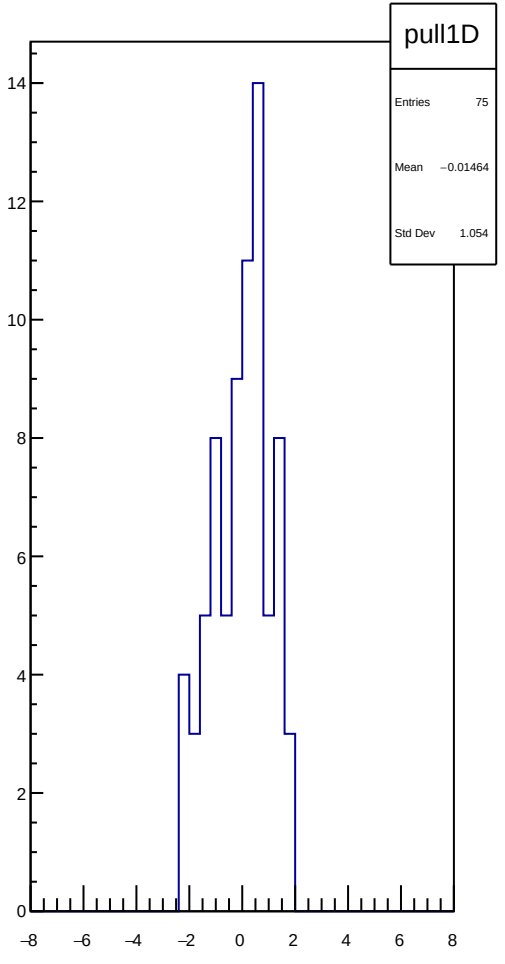

pull1D
Entries 75
Mean 0.006465
Std Dev 1.058

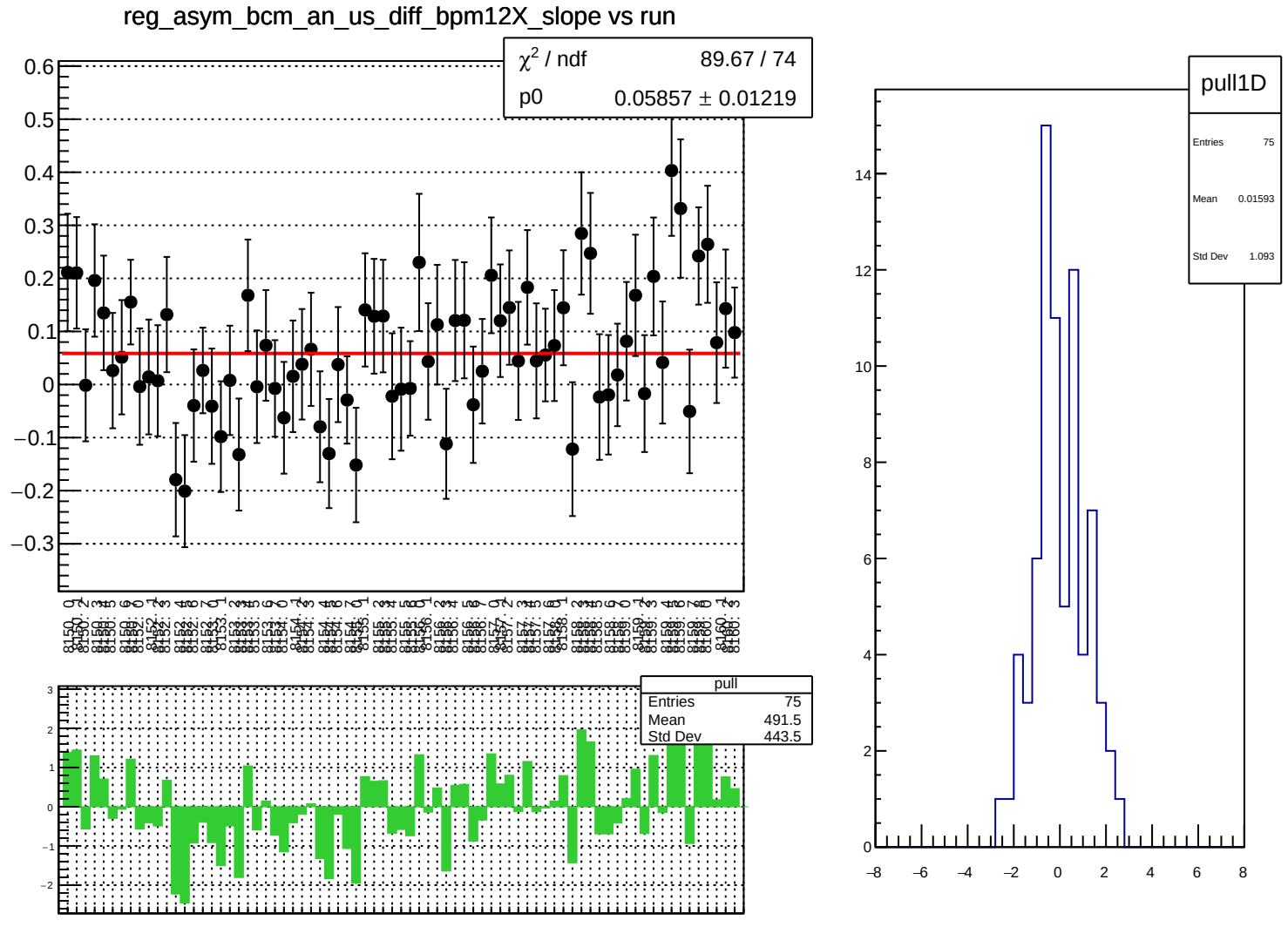

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 82.04 / 74
p0 0.6524 ± 0.2428
pull
Entries 75
Mean 133.2
Std Dev 103.2

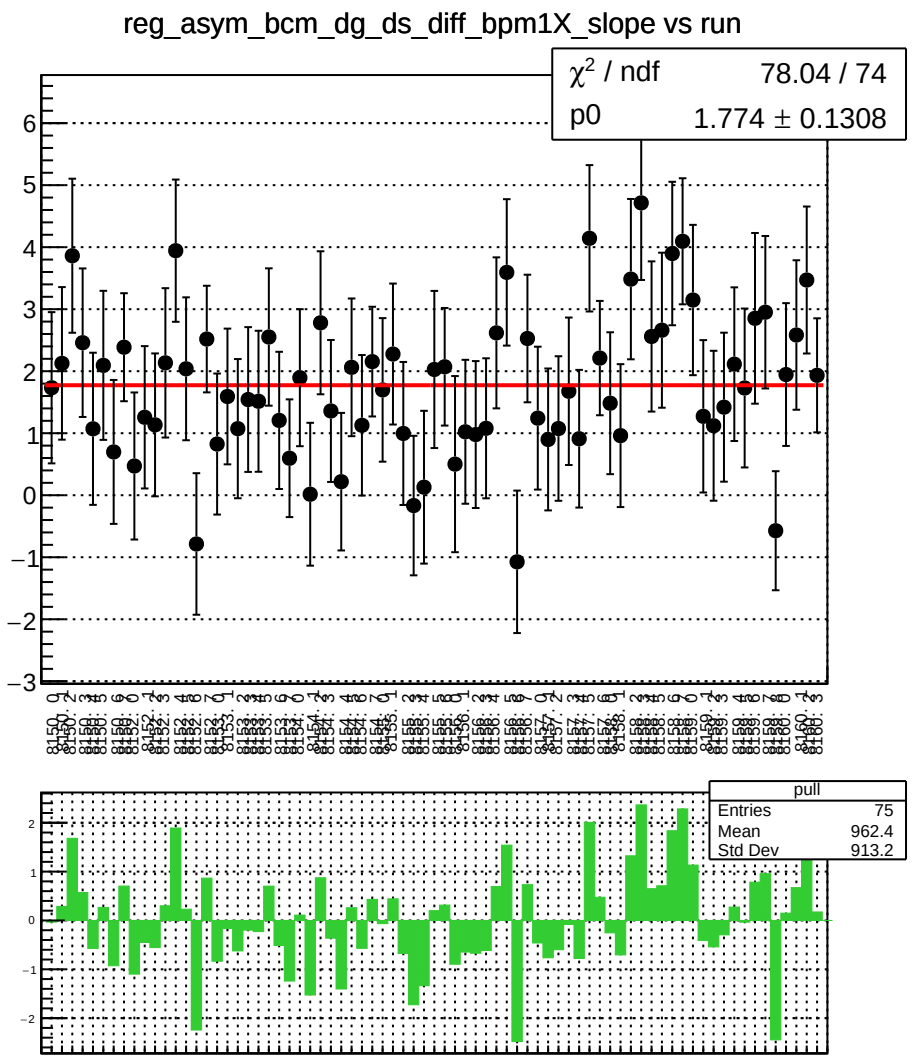

pull1D
Entries 75
Mean 0.01504
Std Dev 1.046

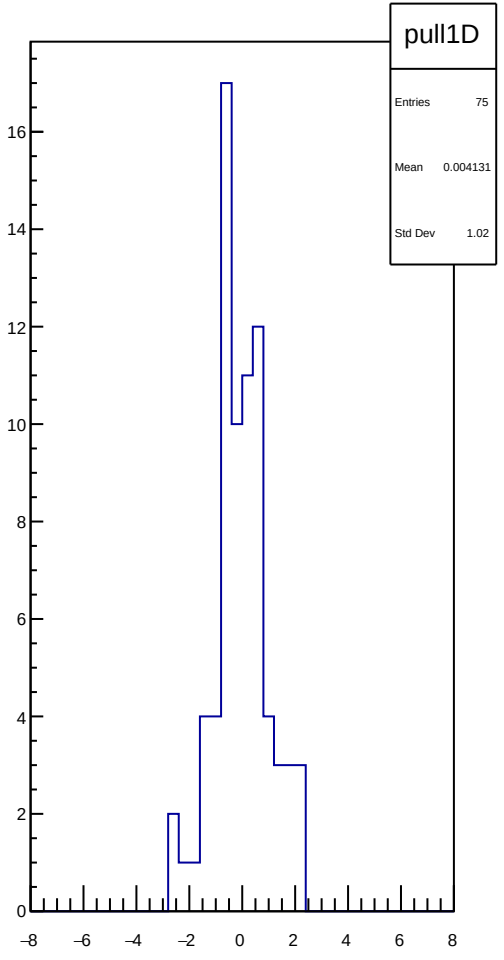

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 81.16 / 74
p0 −1.499 ± 0.1311
pull
Entries 75
Mean 1325
Std Dev 1279
pull1D
Entries 75
Mean −0.002463
Std Dev 1.04

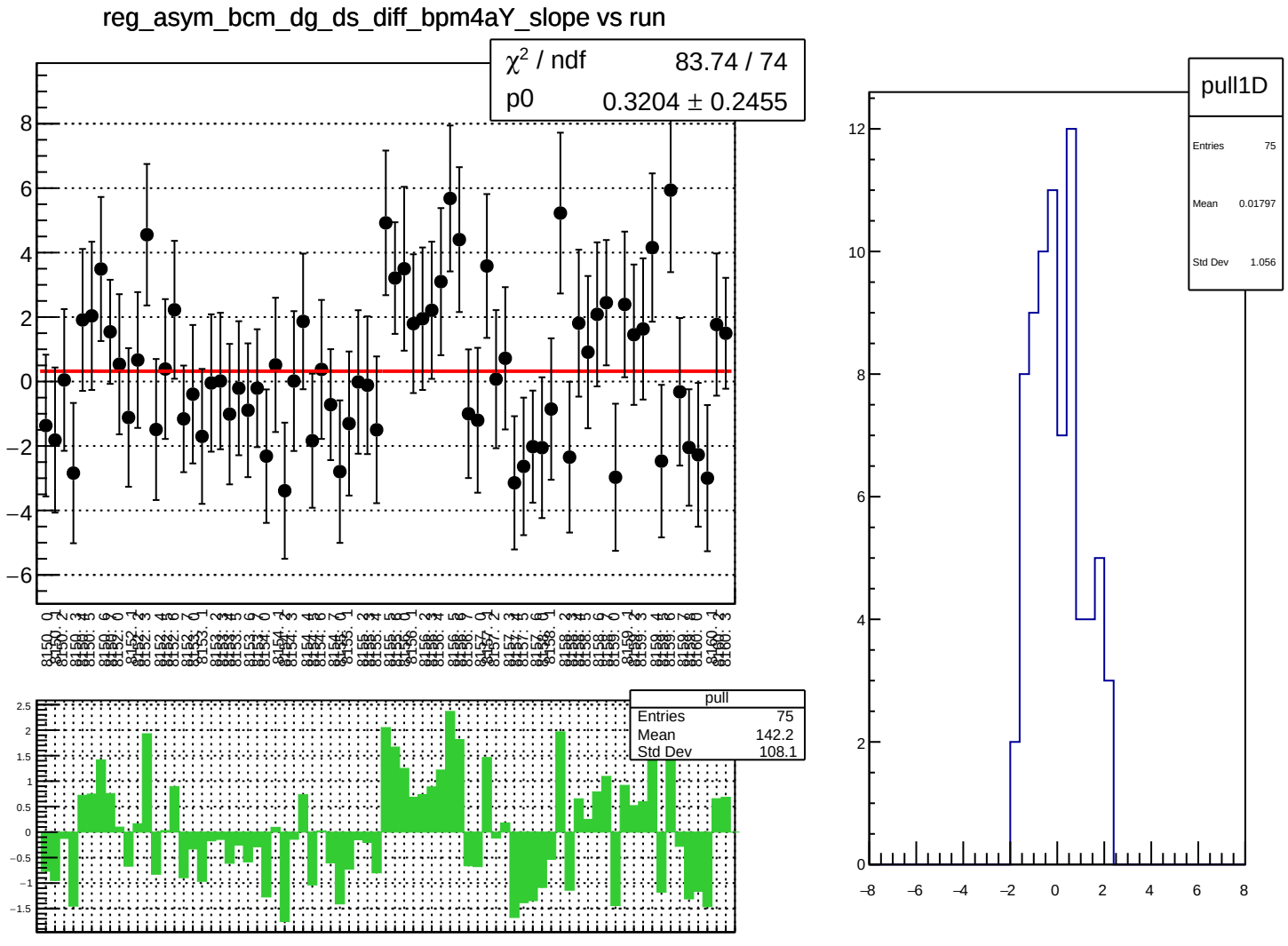

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 83.35 / 74
p0 −0.6243 ± 0.2601
pull
Entries 75
Mean 105.9
Std Dev 73.04

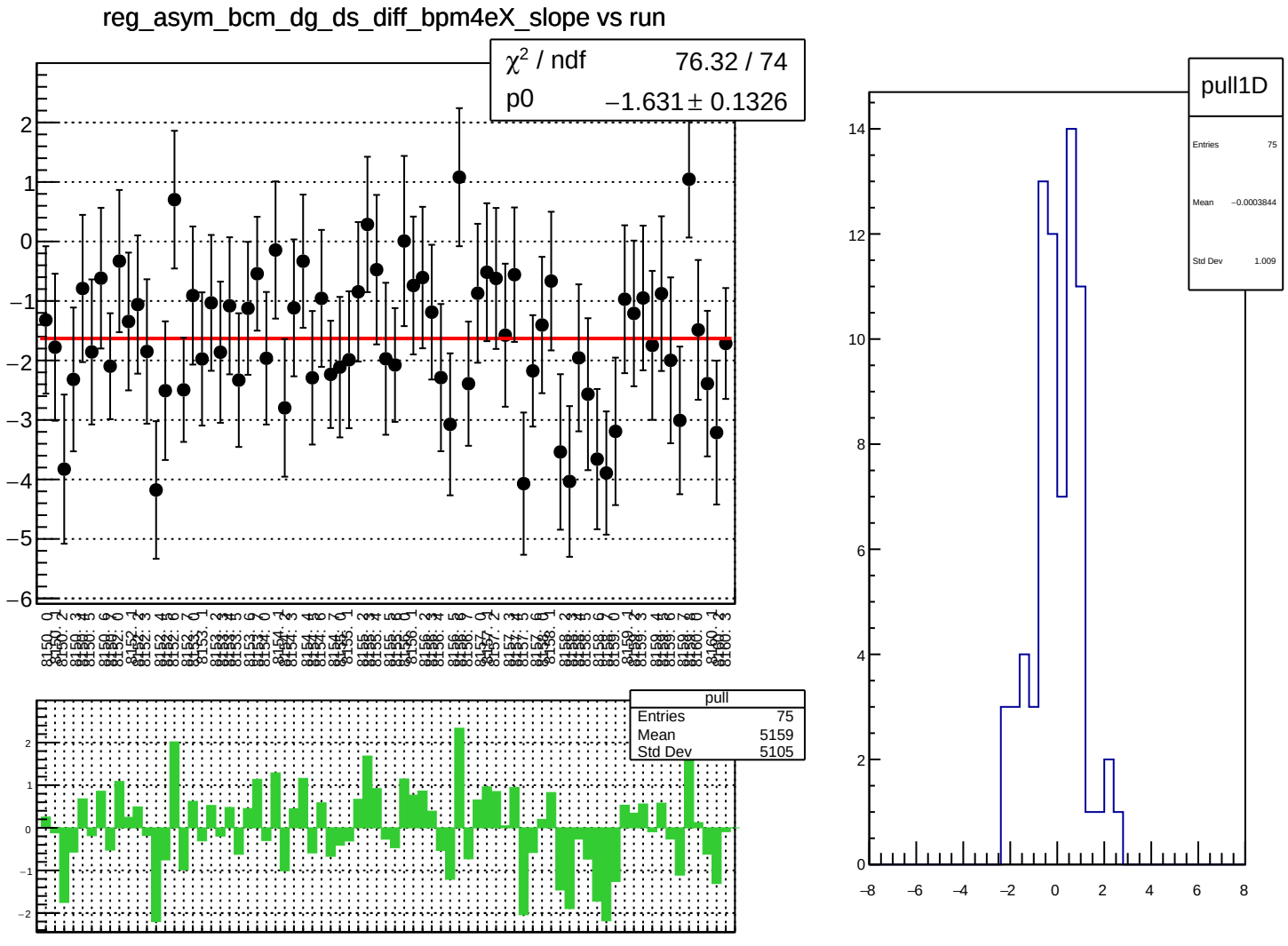

pull1D
Entries 75
Mean −0.01464
Std Dev 1.054

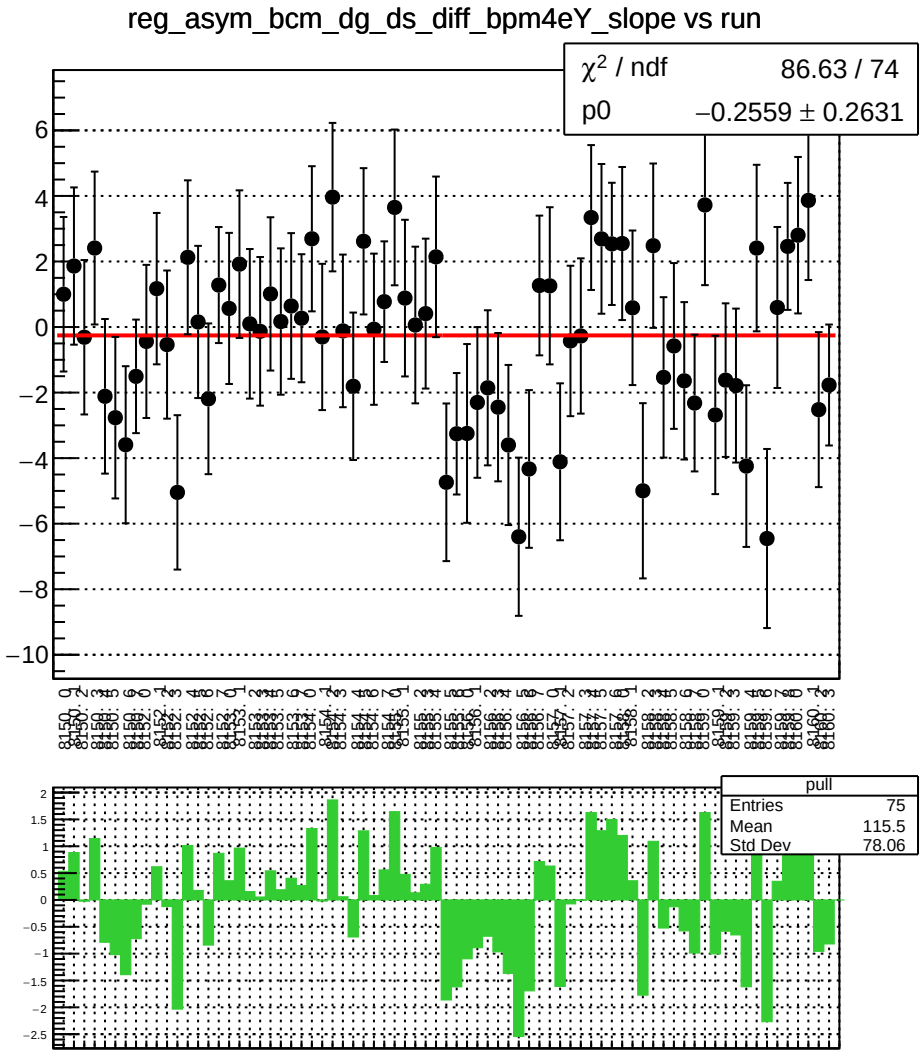

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 89.67 / 74
p0 0.05857 ± 0.01219
pull
Entries 75
Mean 491.5
Std Dev 443.5
pull1D
Entries 75
Mean 0.01593
Std Dev 1.093

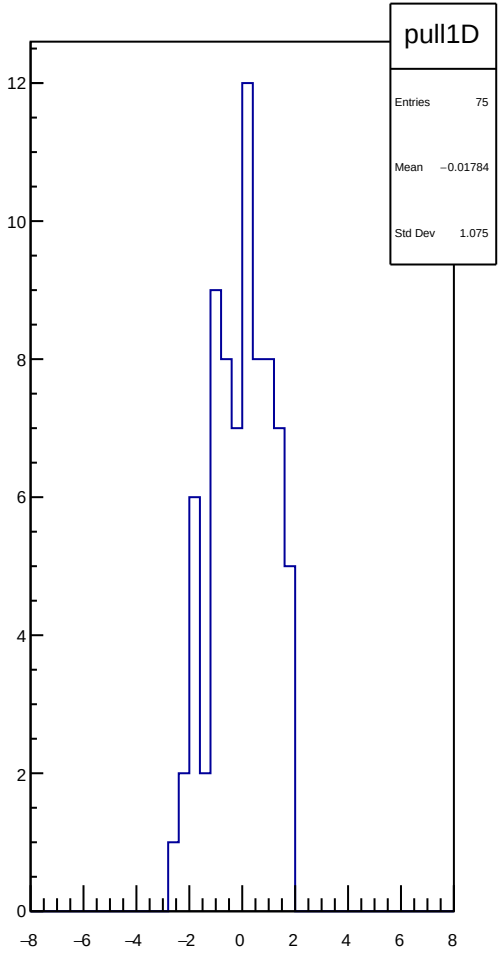

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 78.04 / 74
p0 1.774 ± 0.1308
pull
Entries 75
Mean 962.4
Std Dev 913.2

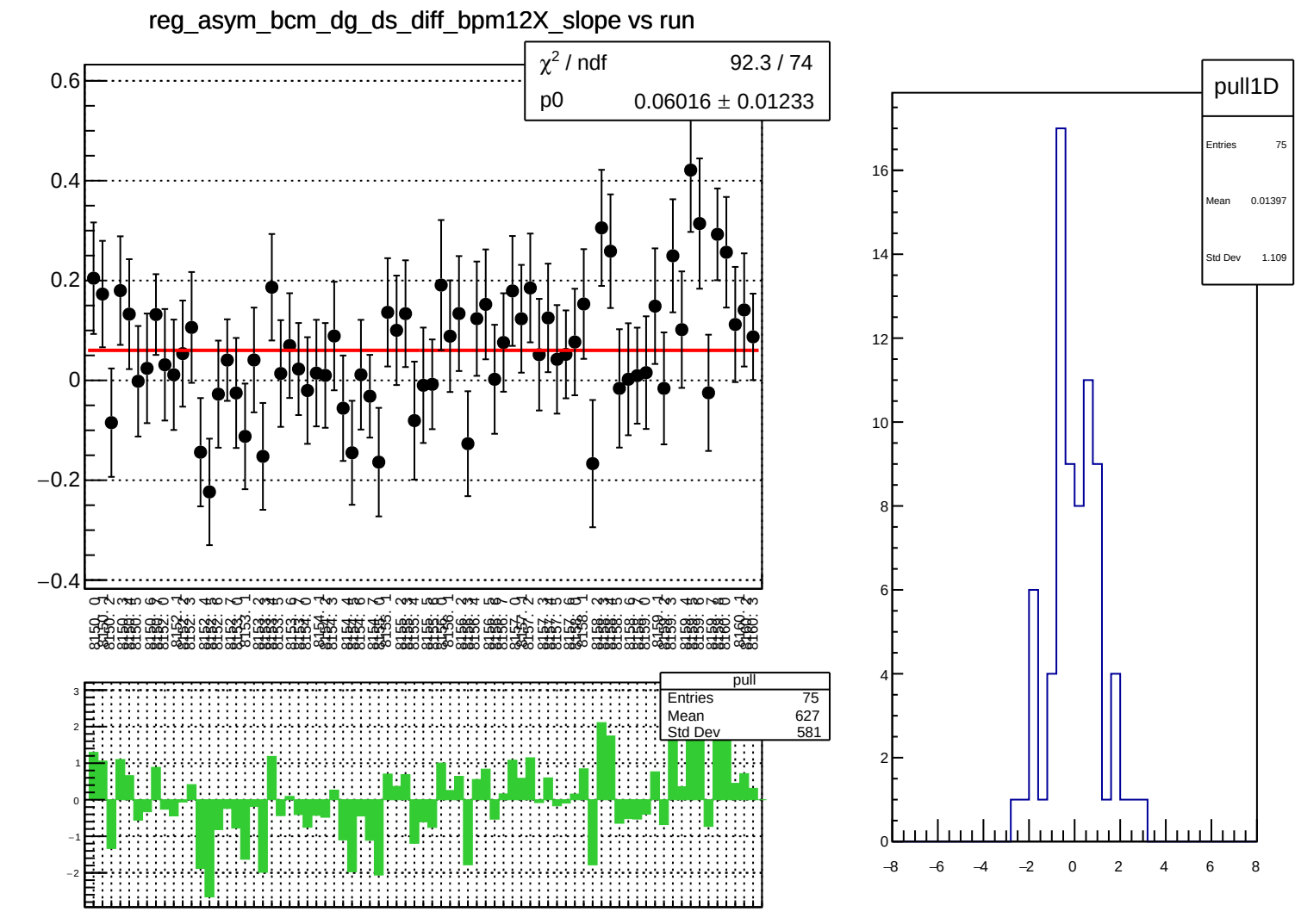

pull1D
Entries 75
Mean 0.004131
Std Dev 1.02

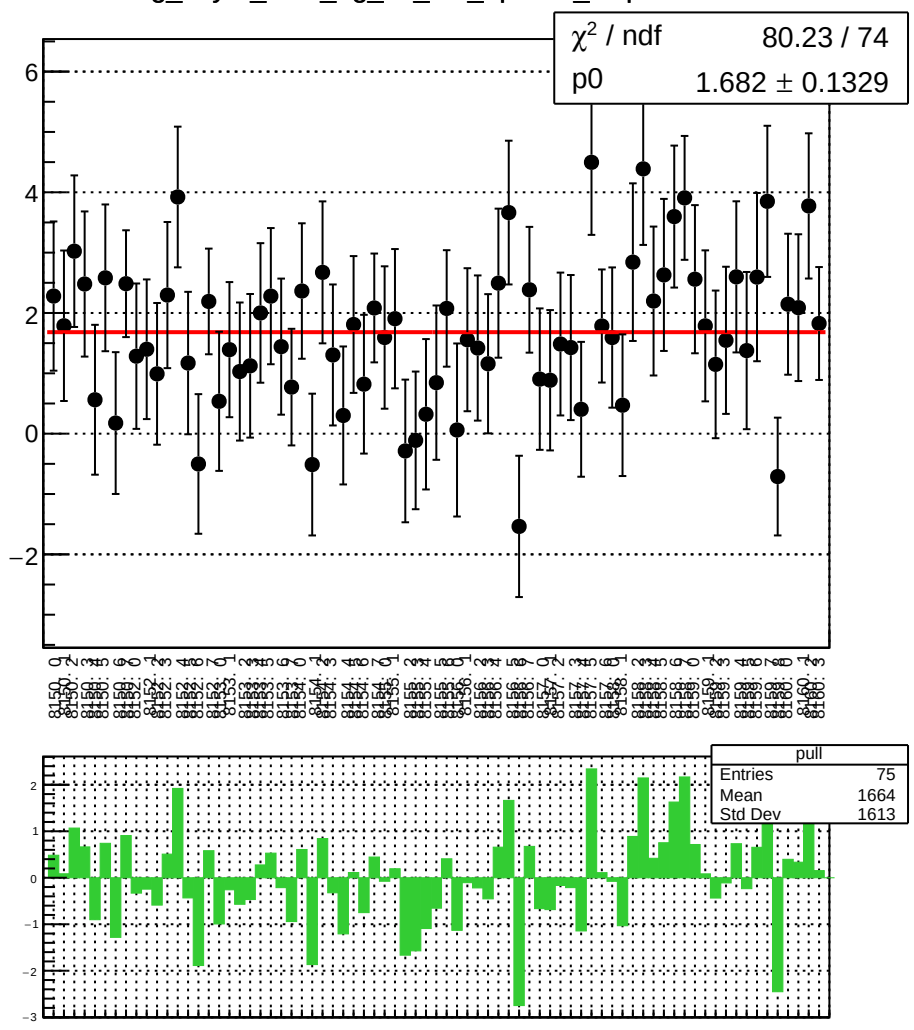

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 83.74 / 74
p0 0.3204 ± 0.2455
pull
Entries 75
Mean 142.2
Std Dev 108.1
pull1D
Entries 75
Mean 0.01797
Std Dev 1.056

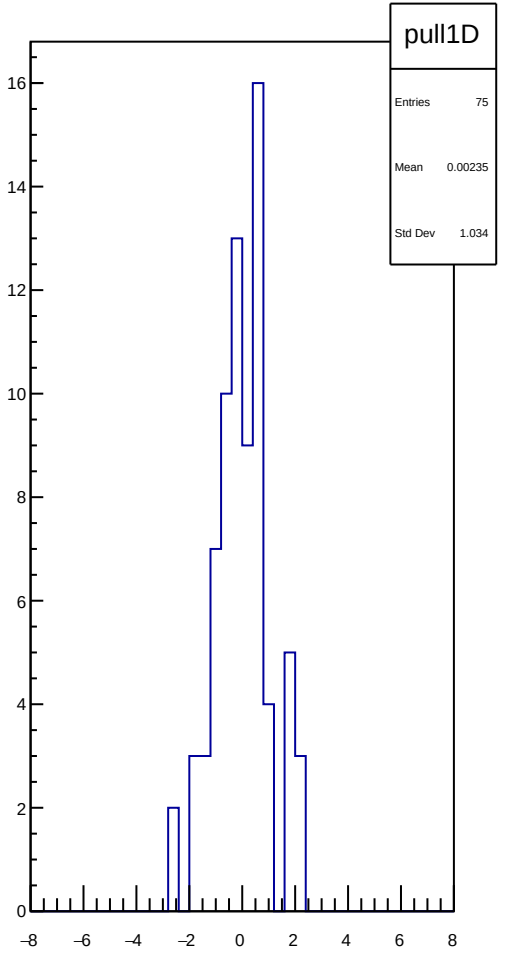

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 76.32 / 74
p0 −1.631 ± 0.1326
pull
Entries 75
Mean 5159
Std Dev 5105
pull1D
Entries 75
Mean −0.0003844
Std Dev 1.009

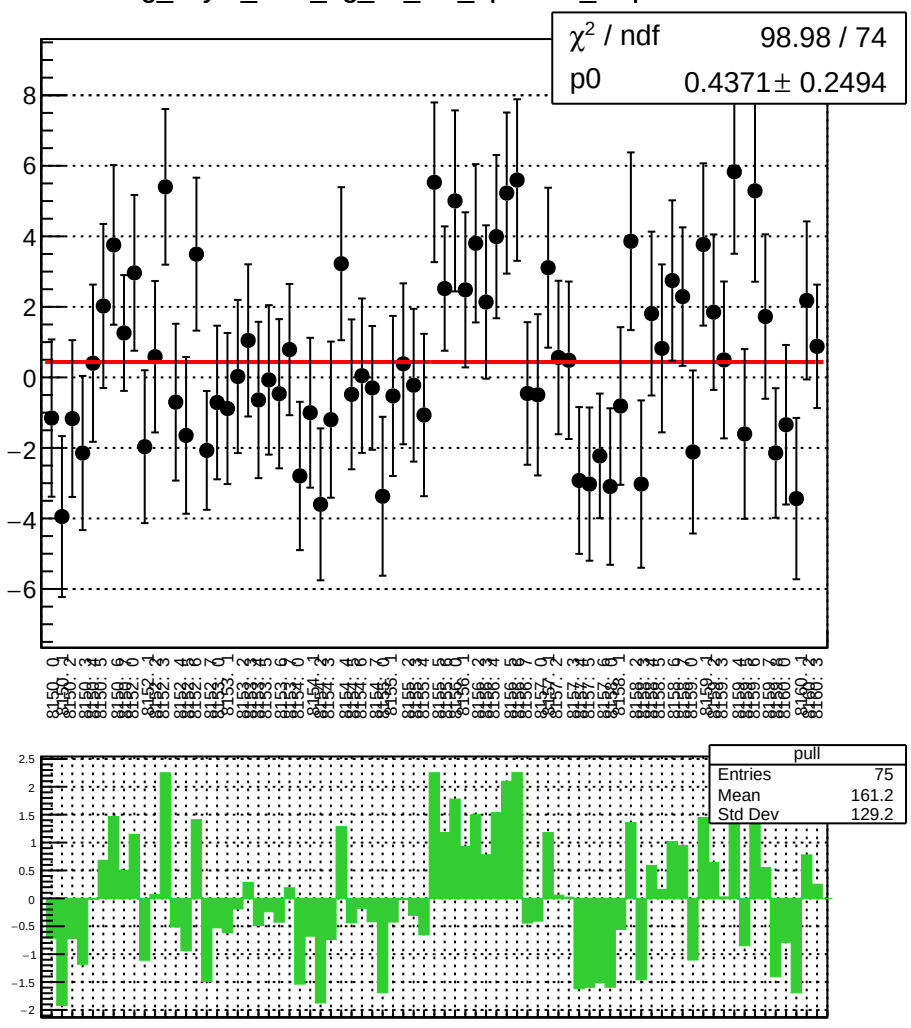

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 86.63 / 74
p0 −0.2559 ± 0.2631
pull
Entries 75
Mean 115.5
Std Dev 78.06

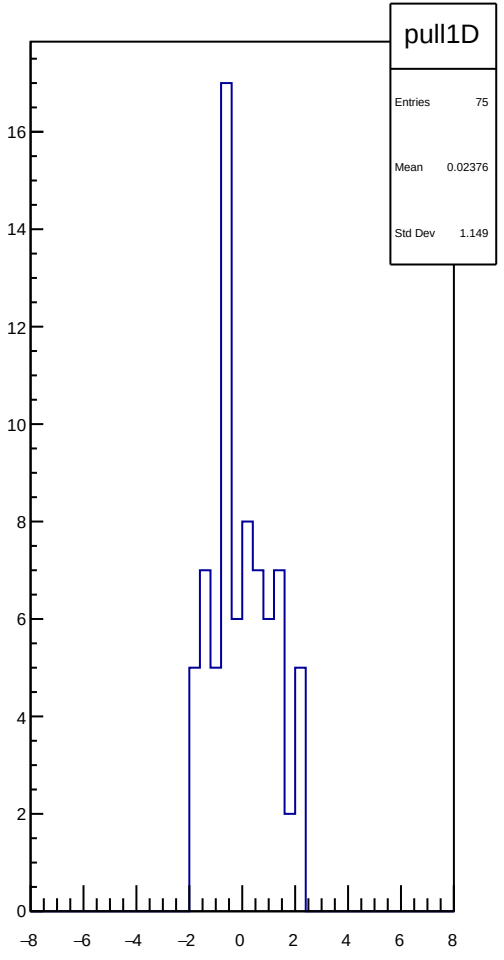

pull1D
Entries 75
Mean −0.01784
Std Dev 1.075

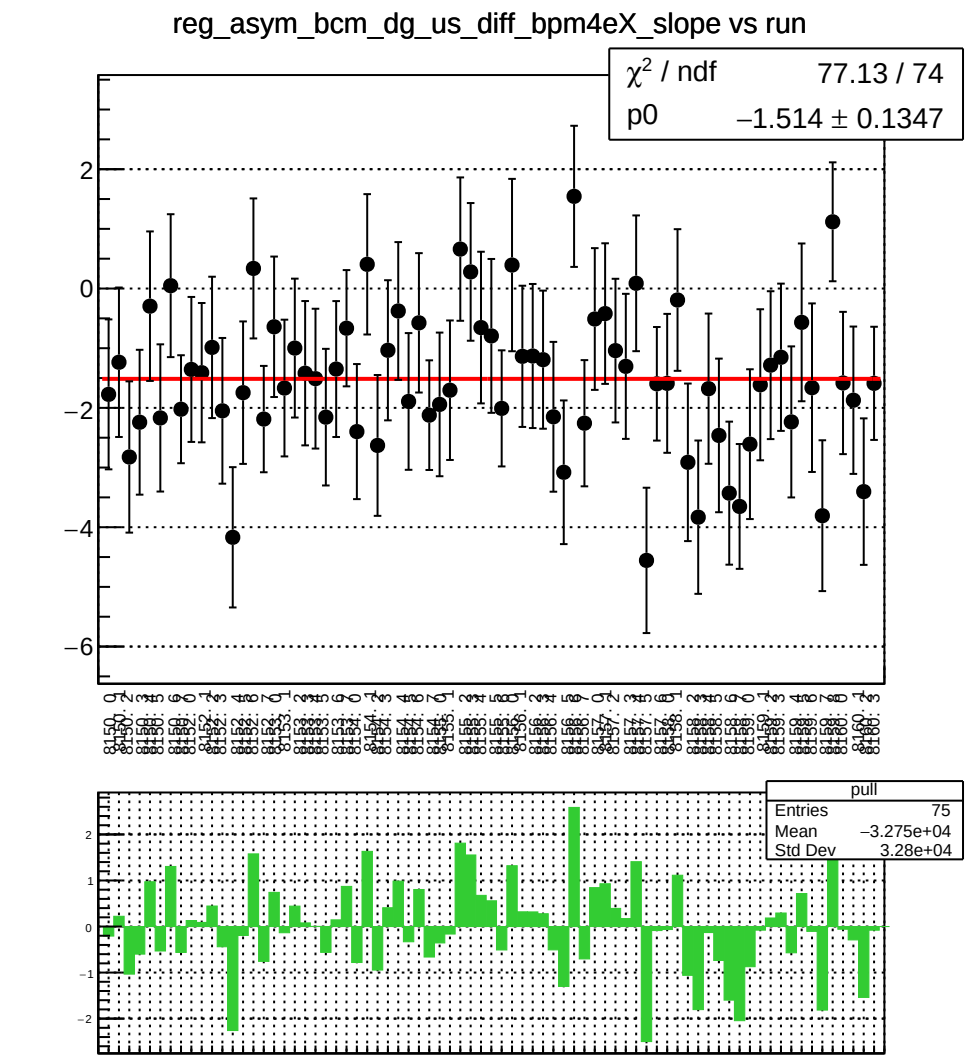

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 92.3 / 74
p0 0.06016 ± 0.01233
pull
Entries 75
Mean 627
Std Dev 581
pull1D
Entries 75
Mean 0.01397
Std Dev 1.109

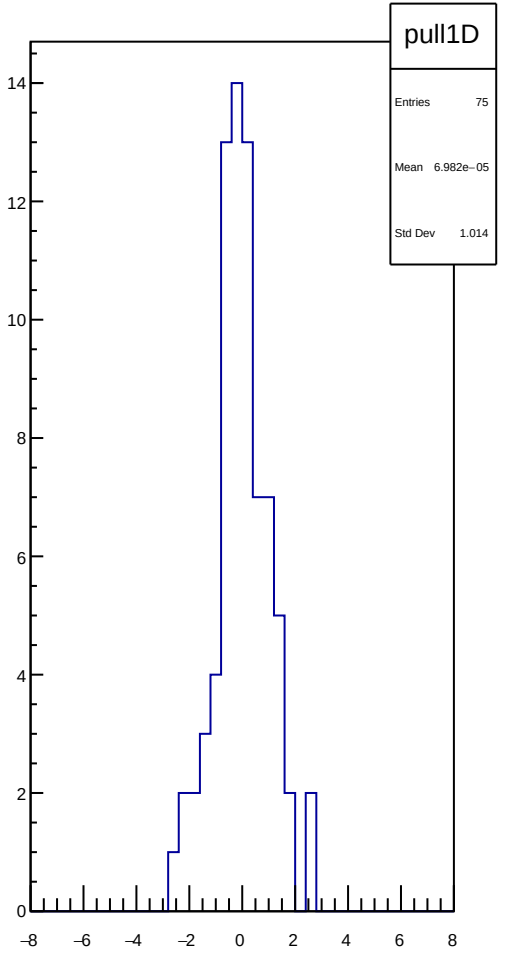

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 80.23 / 74
p0 1.682 ± 0.1329
pull
Entries 75
Mean 1664
Std Dev 1613

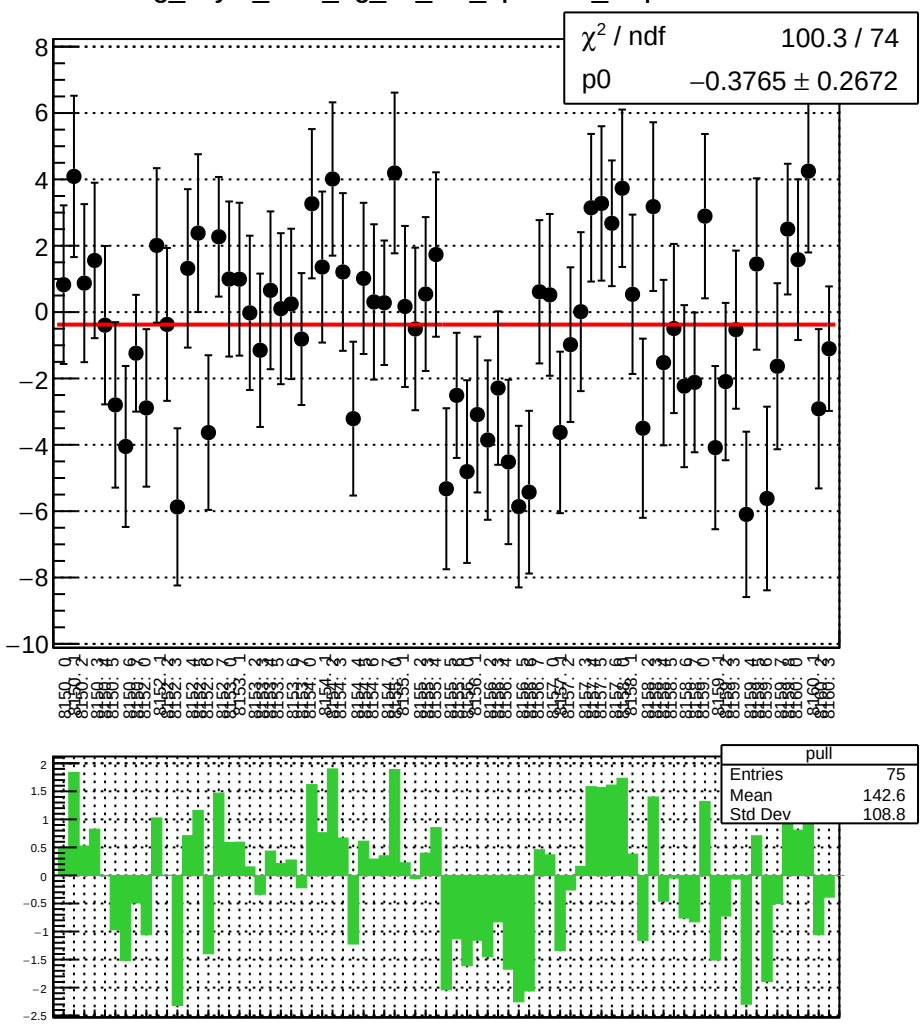

pull1D
Entries 75
Mean 0.00235
Std Dev 1.034

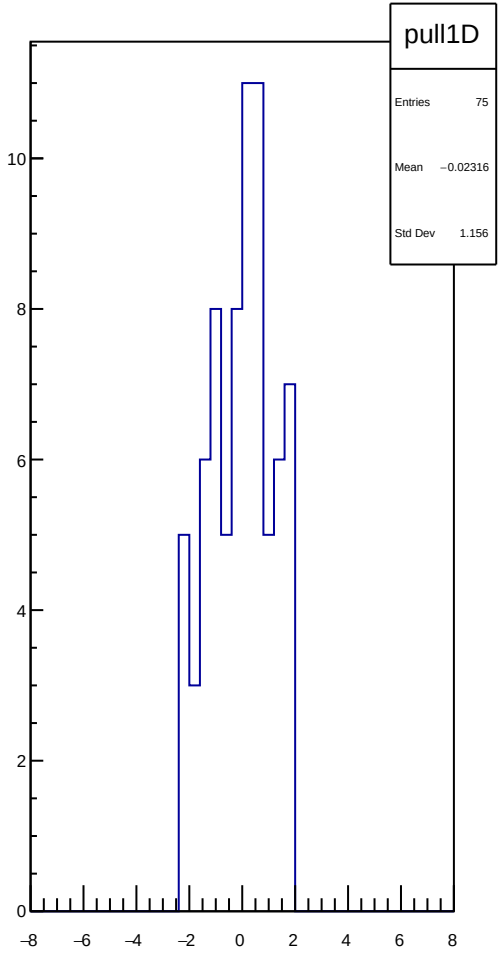

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 98.98 / 74
p0 0.4371± 0.2494
pull
Entries 75
Mean 161.2
Std Dev 129.2

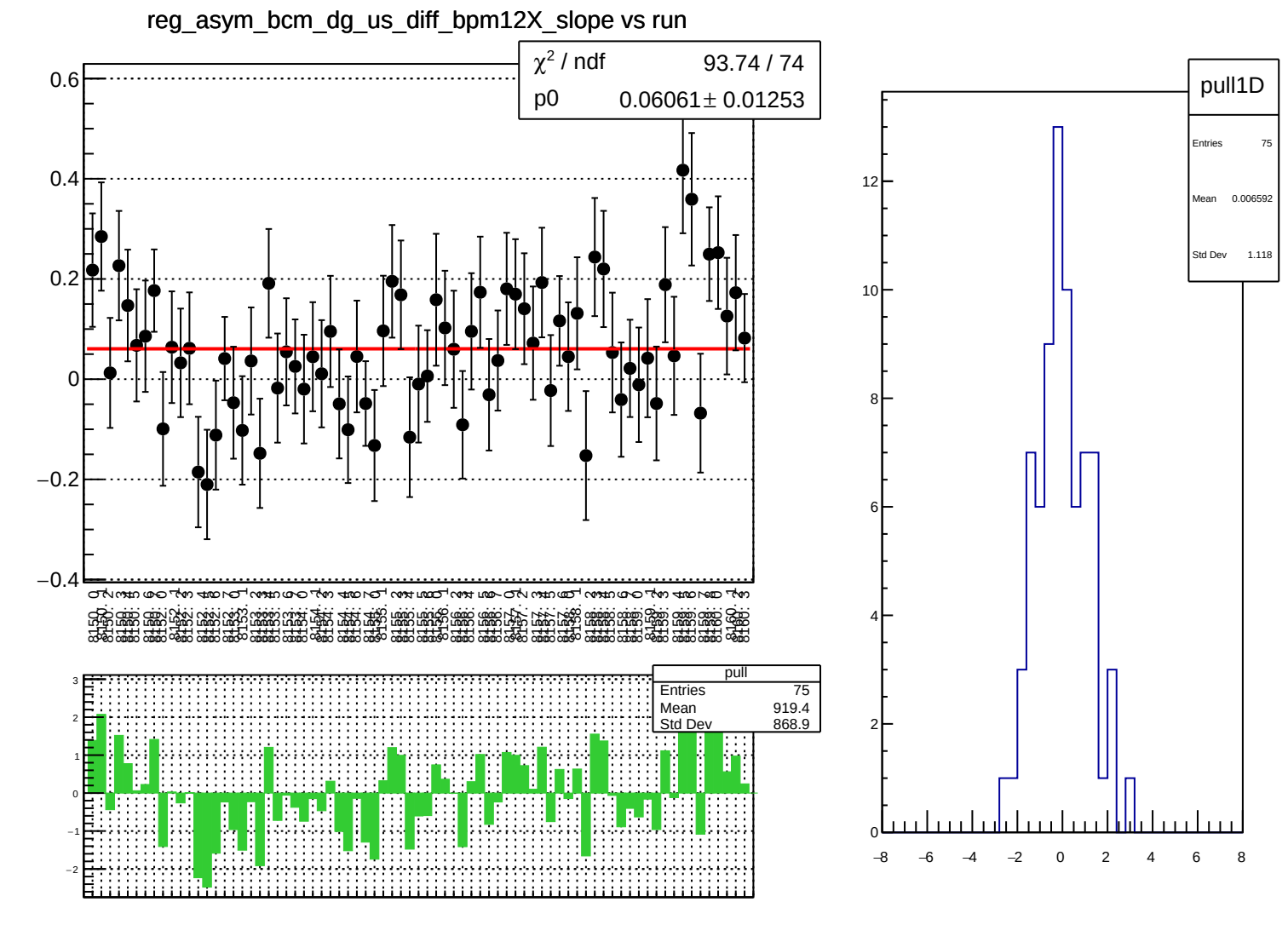

pull1D
Entries 75
Mean 0.02376
Std Dev 1.149

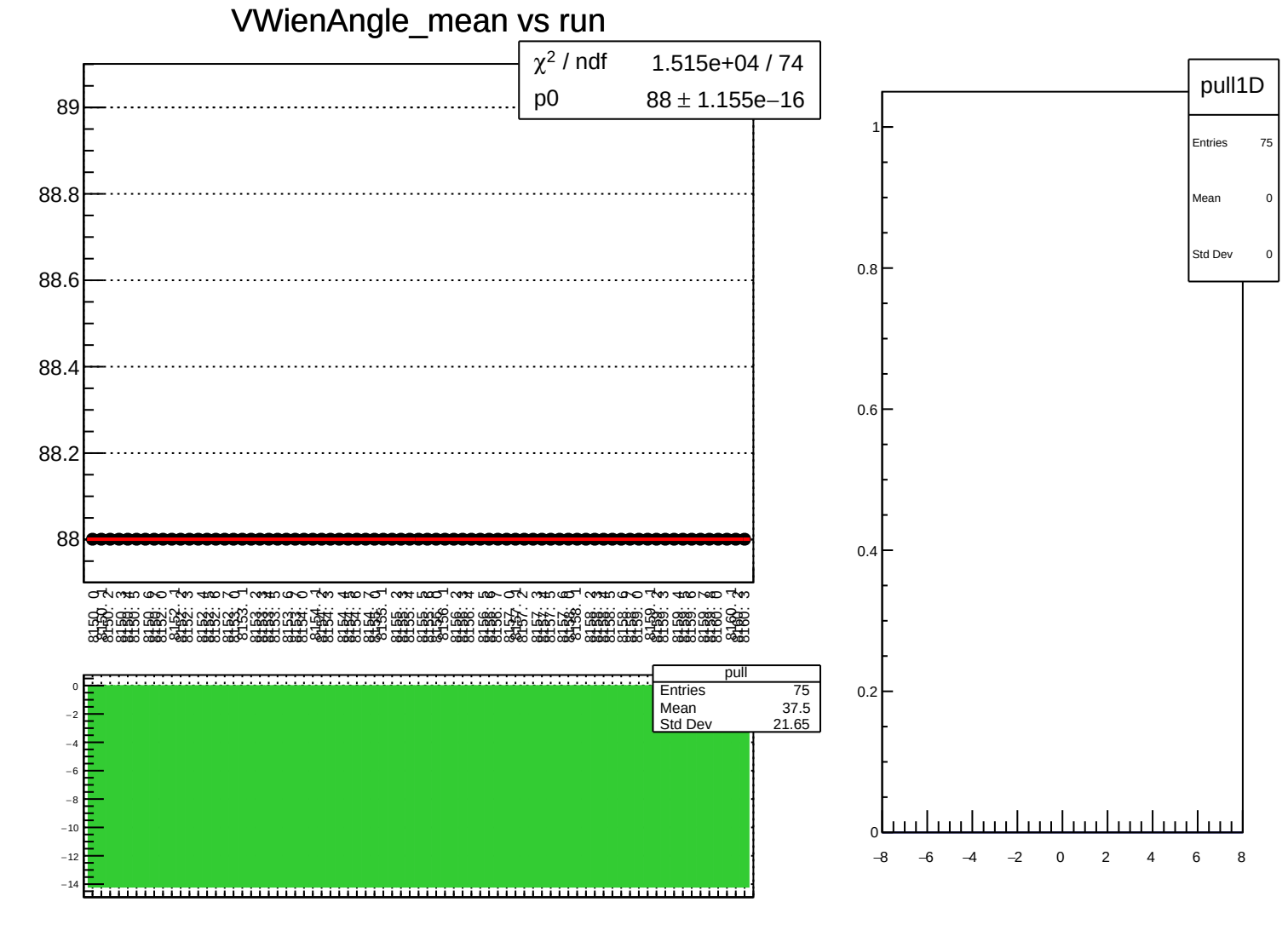

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 77.13 / 74
p0 −1.514 ± 0.1347
pull
Entries 75
Mean −3.275e+04
Std Dev 3.28e+04

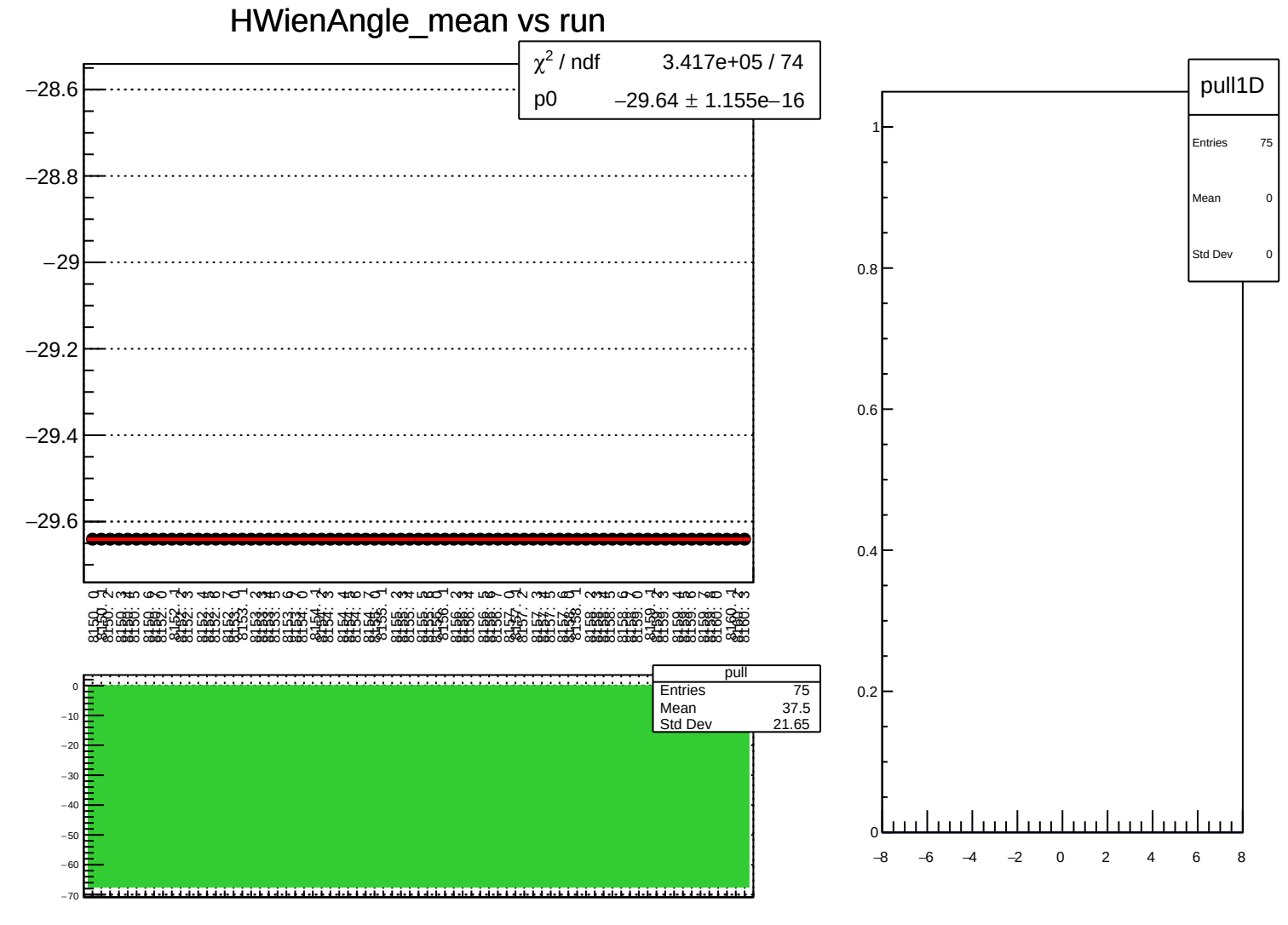

pull1D
Entries 75
Mean 6.982e−05
Std Dev 1.014

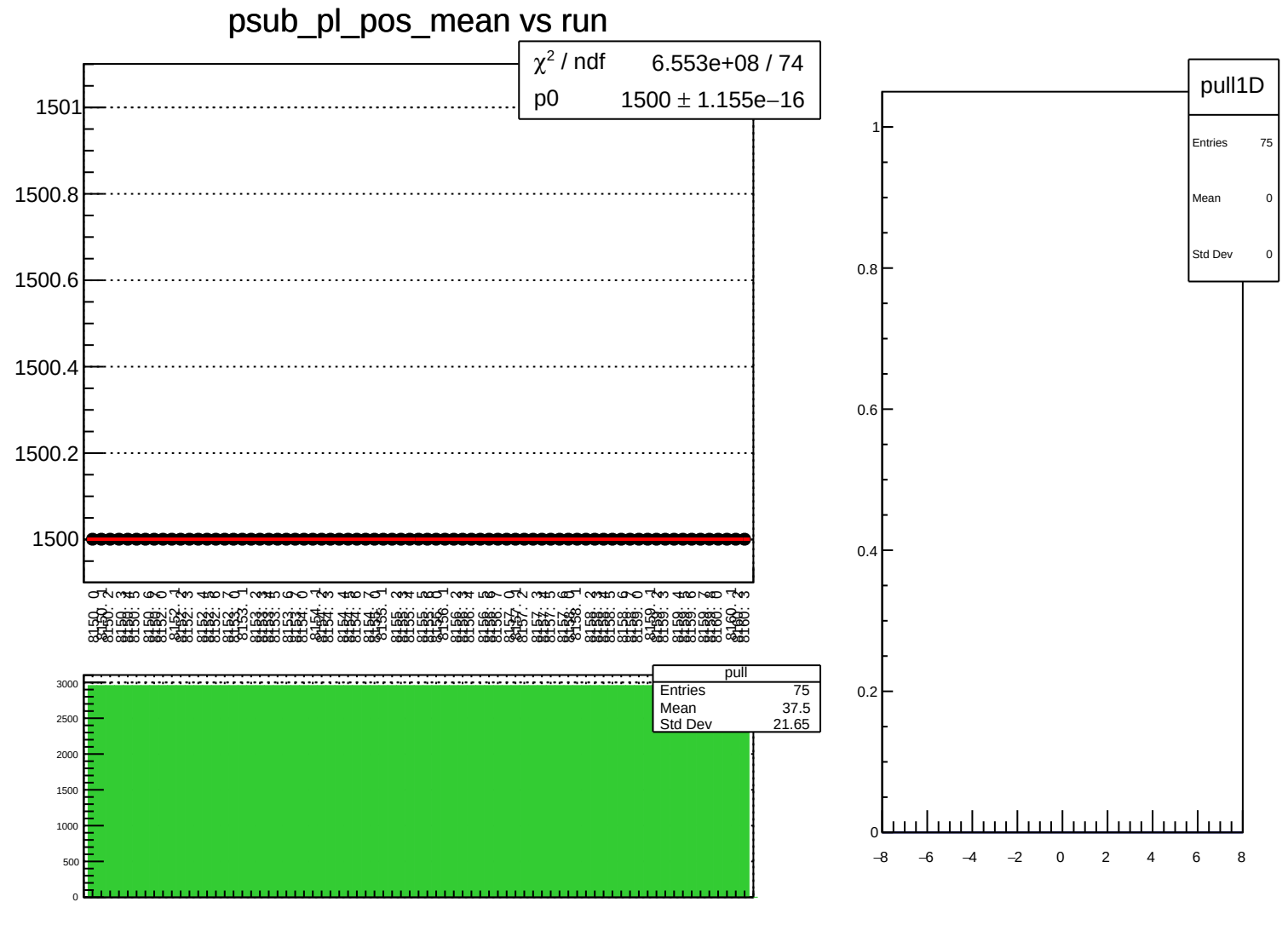

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 100.3 / 74
p0 −0.3765 ± 0.2672
pull
Entries 75
Mean 142.6
Std Dev 108.8

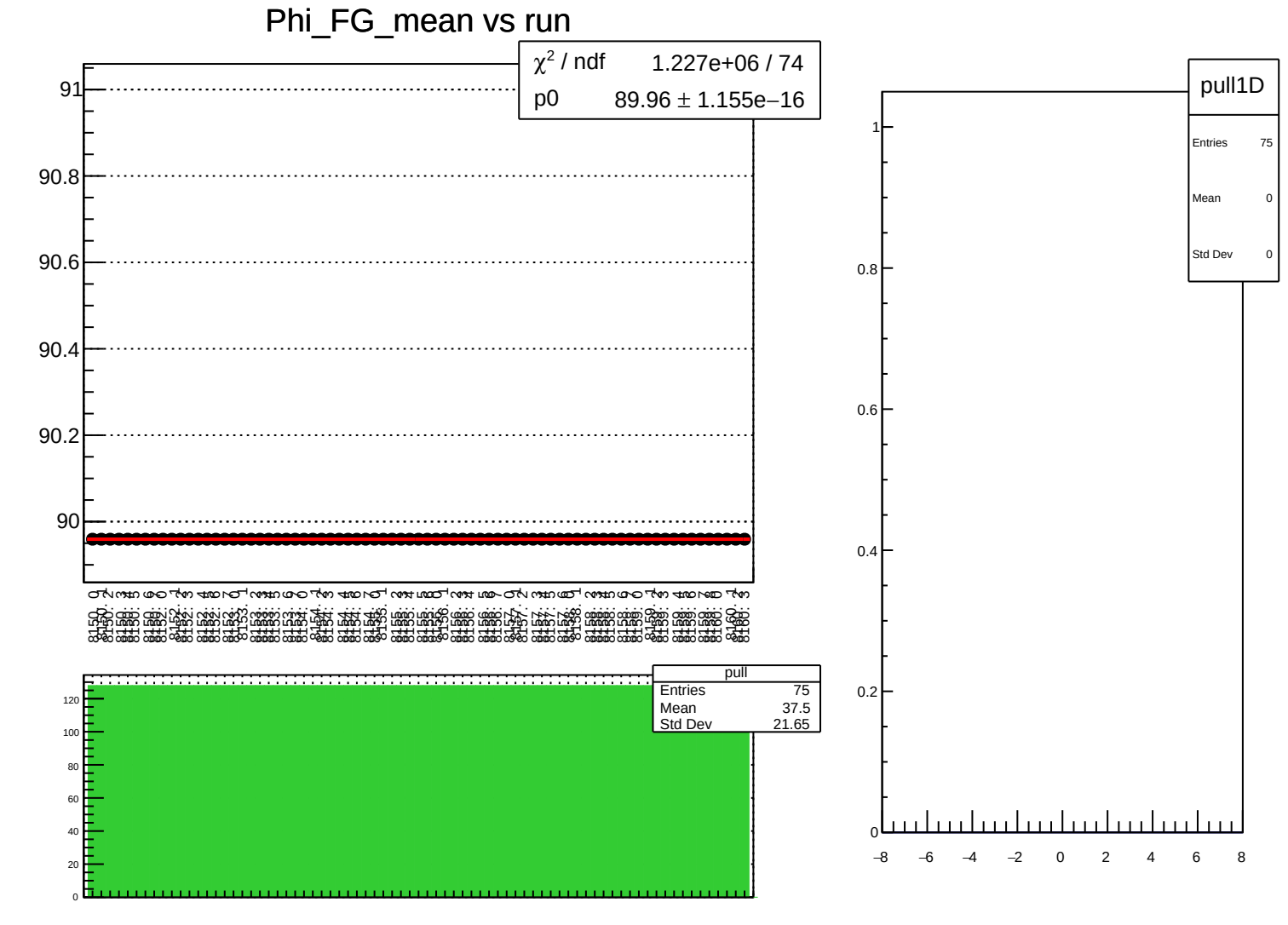

pull1D
Entries 75
Mean −0.02316
Std Dev 1.156

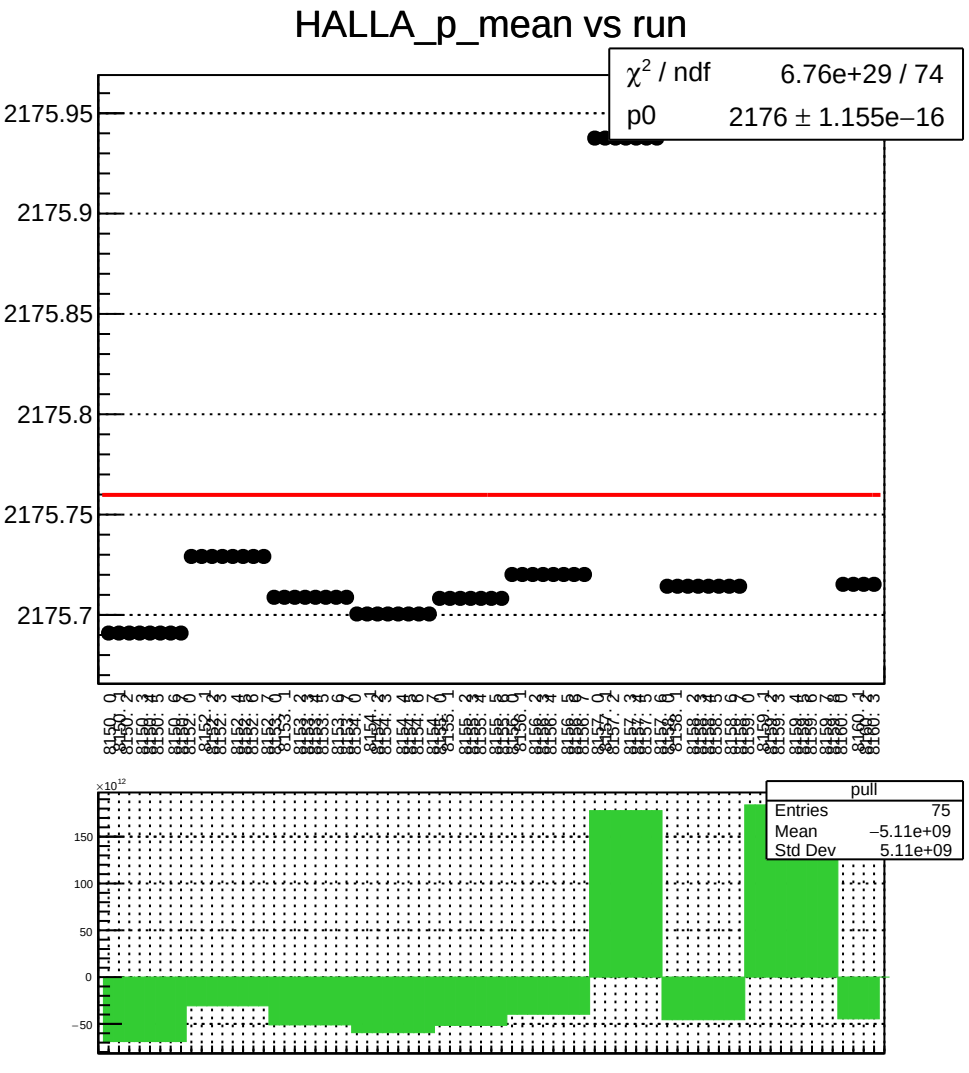

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 93.74 / 74
p0 0.06061 ± 0.01253
pull
Entries 75
Mean 919.4
Std Dev 868.9
pull1D
Entries 75
Mean 0.006592
Std Dev 1.118

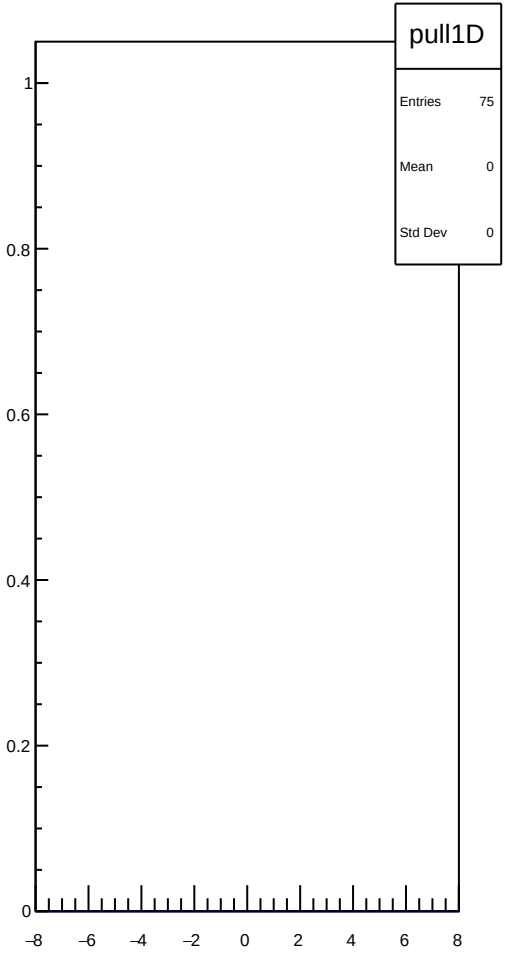

VWienAngle_mean vs run
χ² / ndf 1.515e+04 / 74
p0 88 ± 1.155e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 75
Mean 37.5
Std Dev 21.65
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

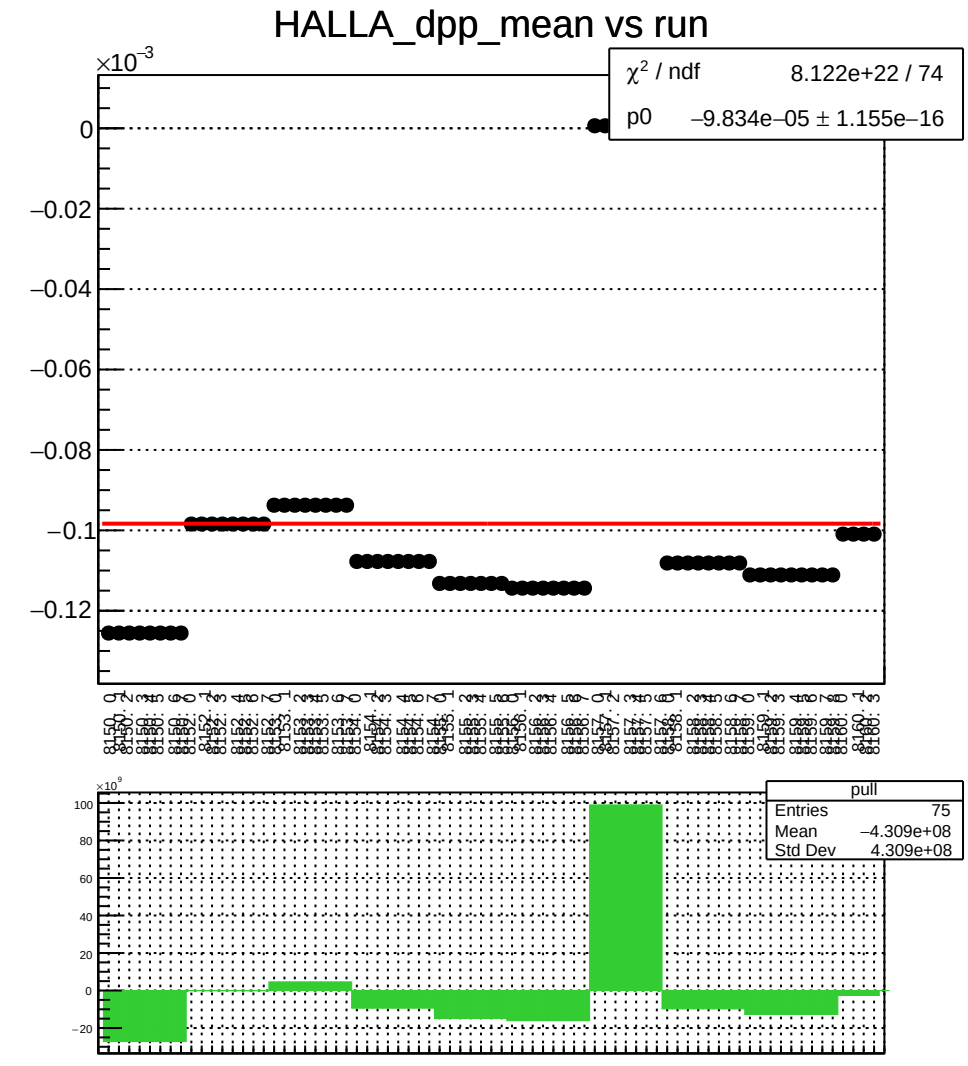

HWienAngle_mean vs run
χ² / ndf 3.417e+05 / 74
p0 −29.64 ± 1.155e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 75
Mean 37.5
Std Dev 21.65
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

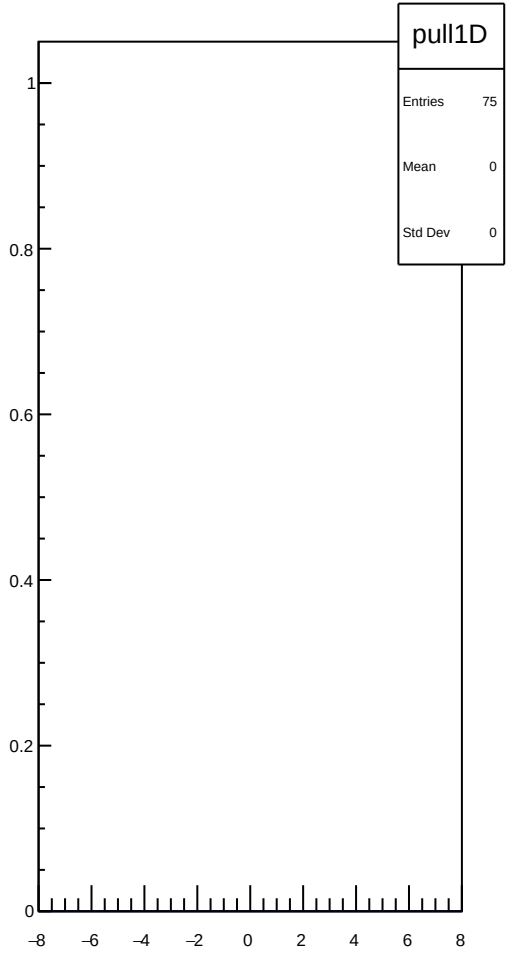

psub_pl_pos_mean vs run
χ² / ndf 6.553e+08 / 74
p0 1500 ± 1.155e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 75
Mean 37.5
Std Dev 21.65
3000
2500
2000
1500
1000
500
0
pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

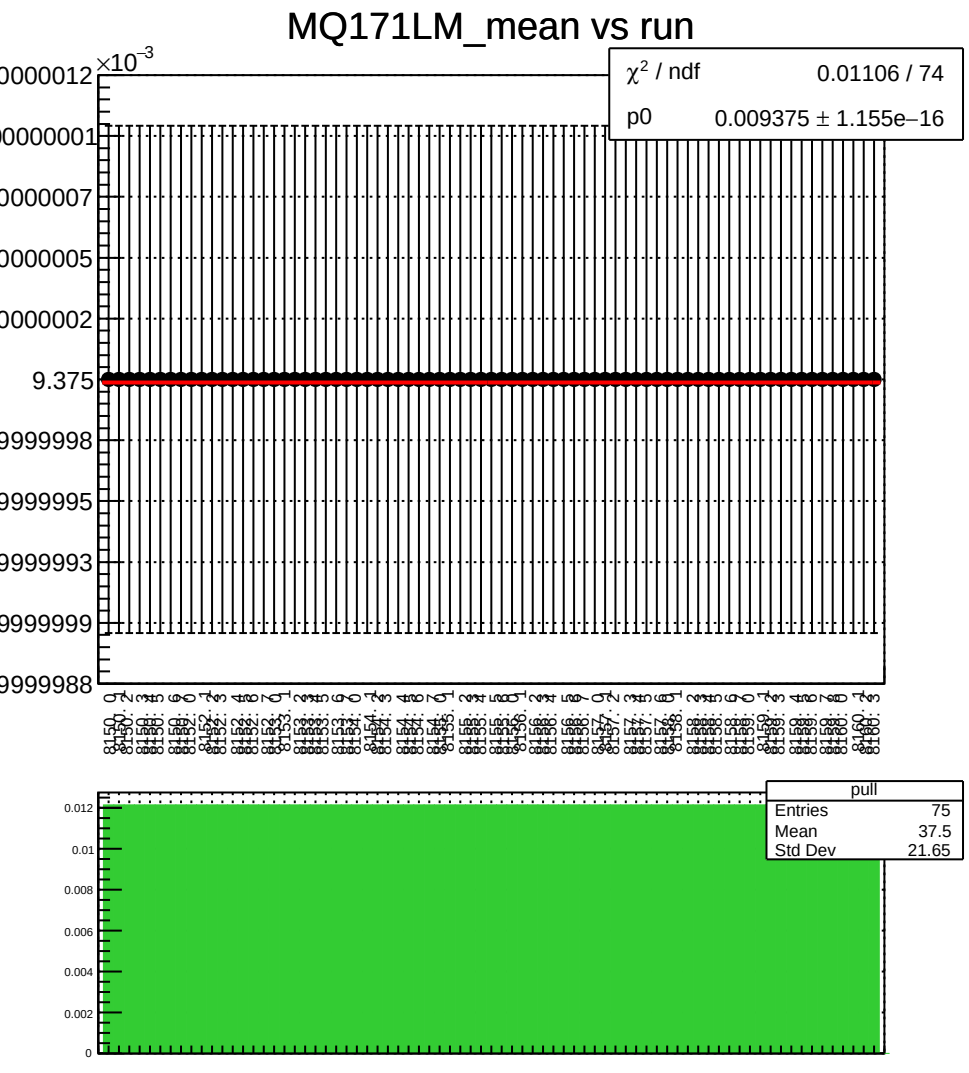

Phi_FG_mean vs run
χ² / ndf 1.227e+06 / 74
p0 89.96 ± 1.155e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 75
Mean 37.5
Std Dev 21.65
120
100
80
60
40
20
0
pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

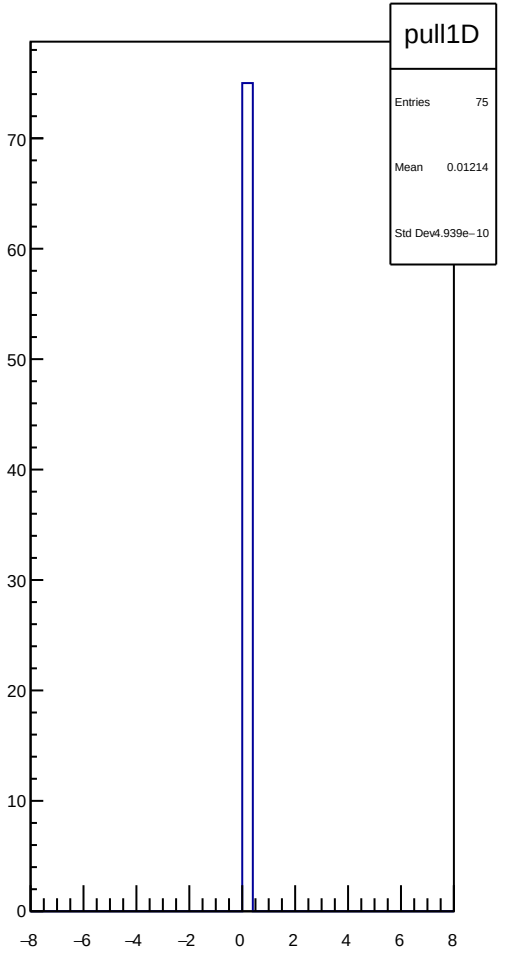

HALLA_p_mean vs run
χ² / ndf 6.76e+29 / 74
p0 2176 ± 1.155e−16
2175.95
2175.9
2175.85
2175.8
2175.75
2175.7
pull
Entries 75
Mean −5.11e+09
Std Dev 5.11e+09
×10¹²
150
100
50
0
−50

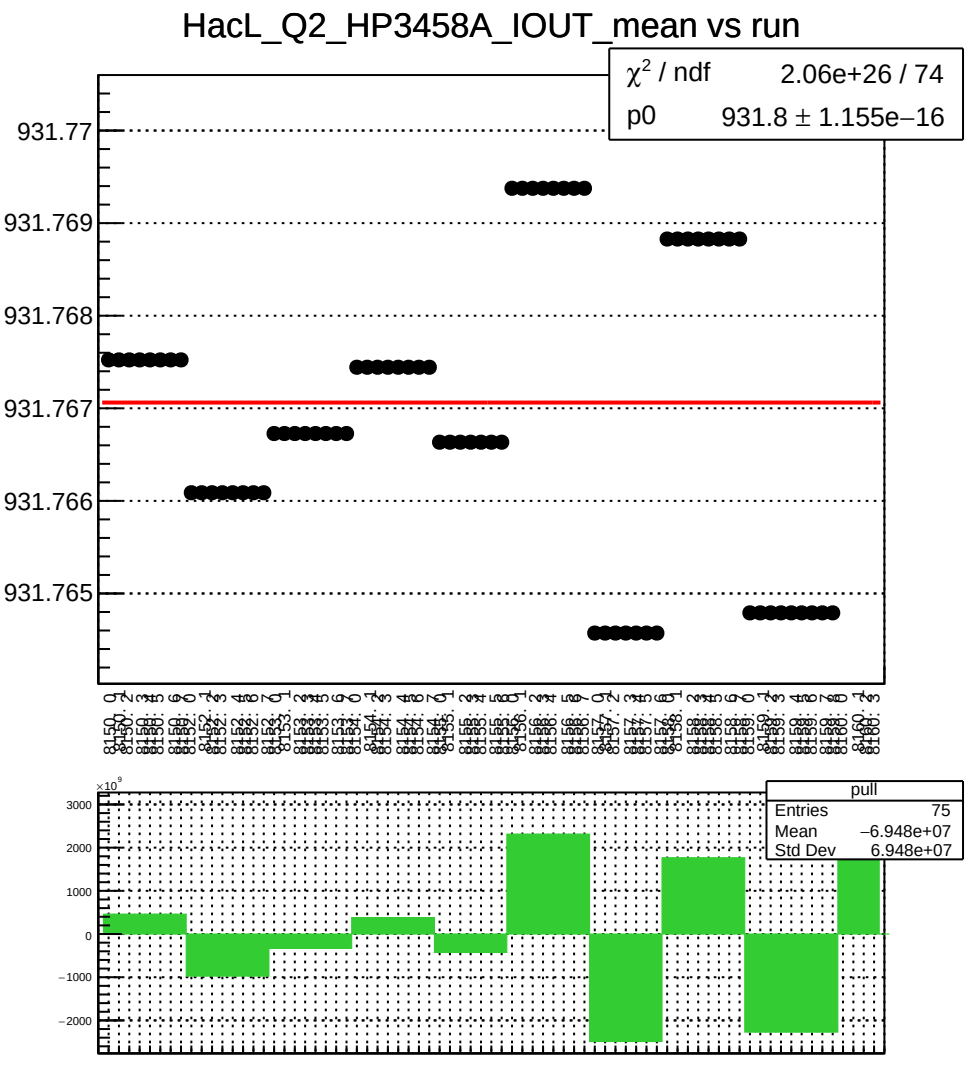

pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

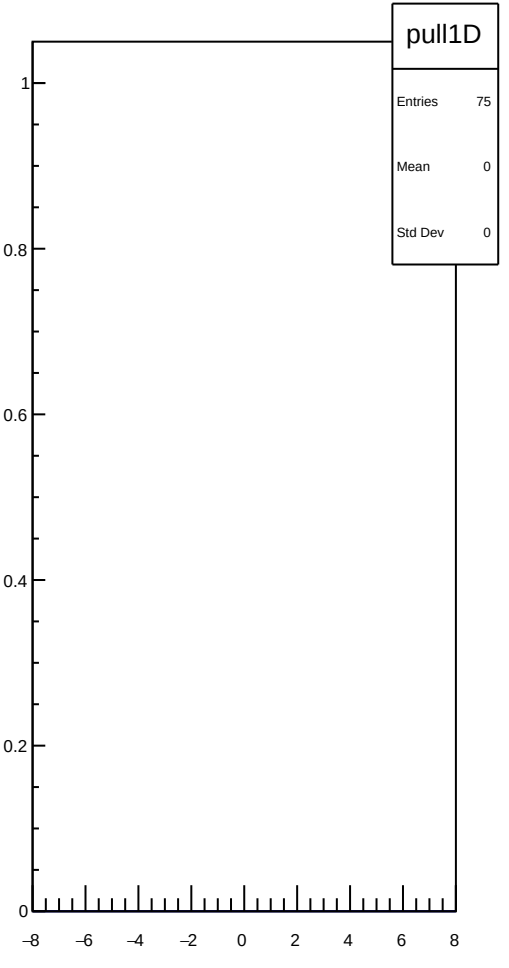

HALLA_dpp_mean vs run
χ² / ndf 8.122e+22 / 74
p0 −9.834e−05 ± 1.155e−16
×10⁻³
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 75
Mean −4.309e+08
Std Dev 4.309e+08
×10⁹
100
80
60
40
20
0
−20

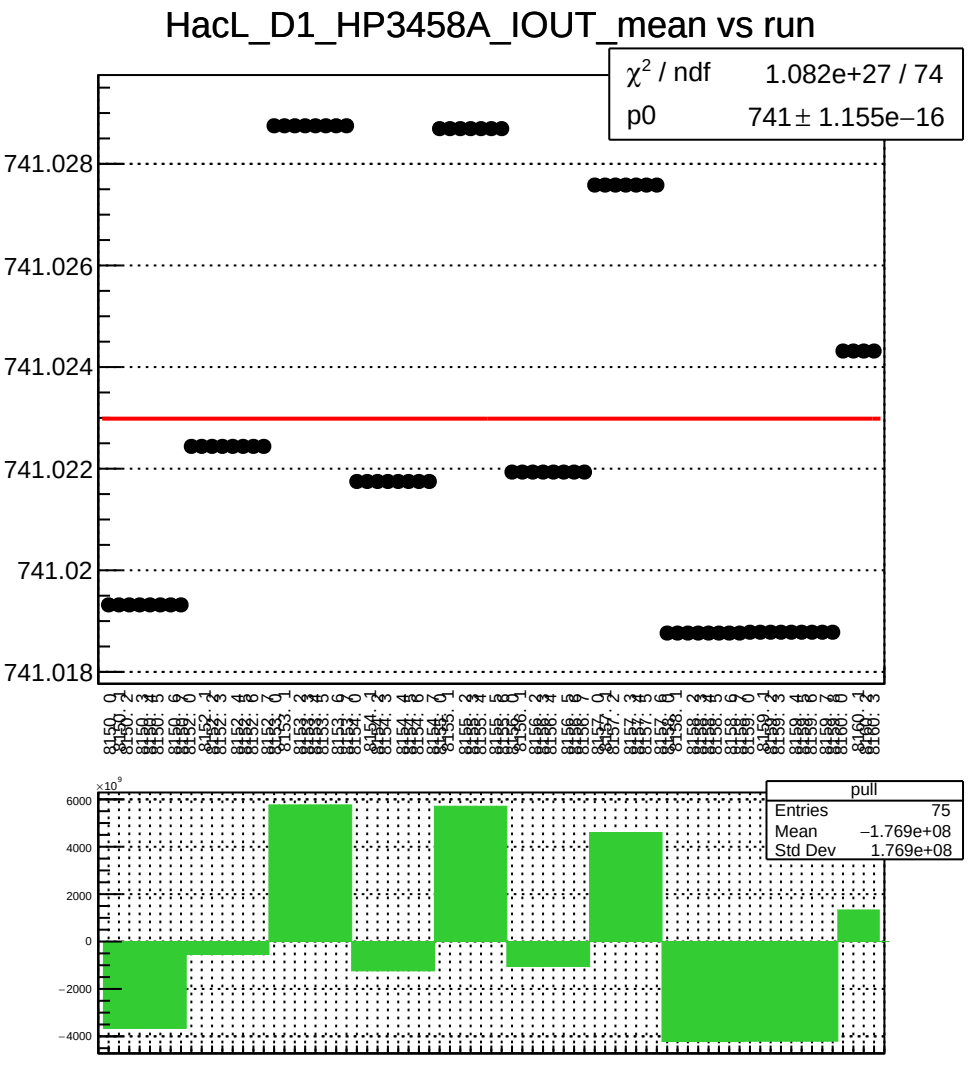

pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

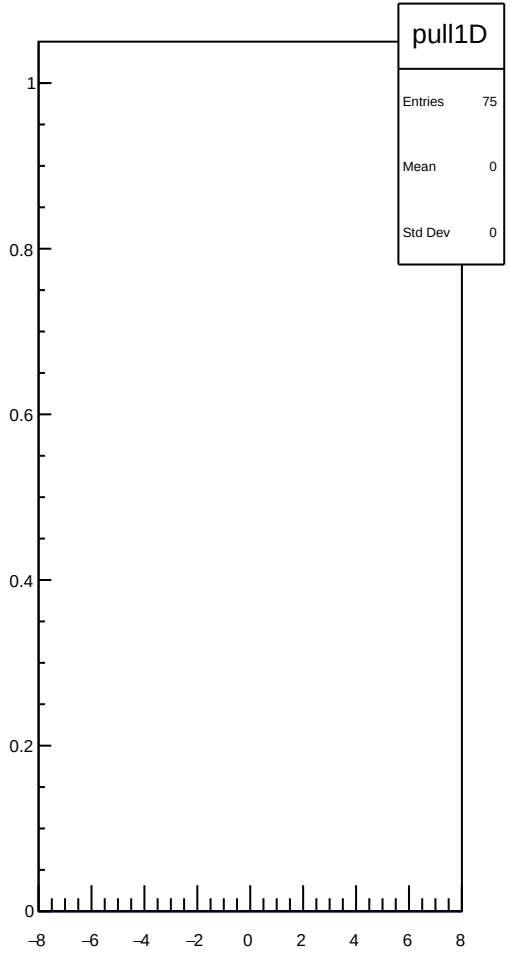

MQ171LM_mean vs run
χ² / ndf 0.01106 / 74
p0 0.009375 ± 1.155e−16
×10⁻³
pull
Entries 75
Mean 37.5
Std Dev 21.65

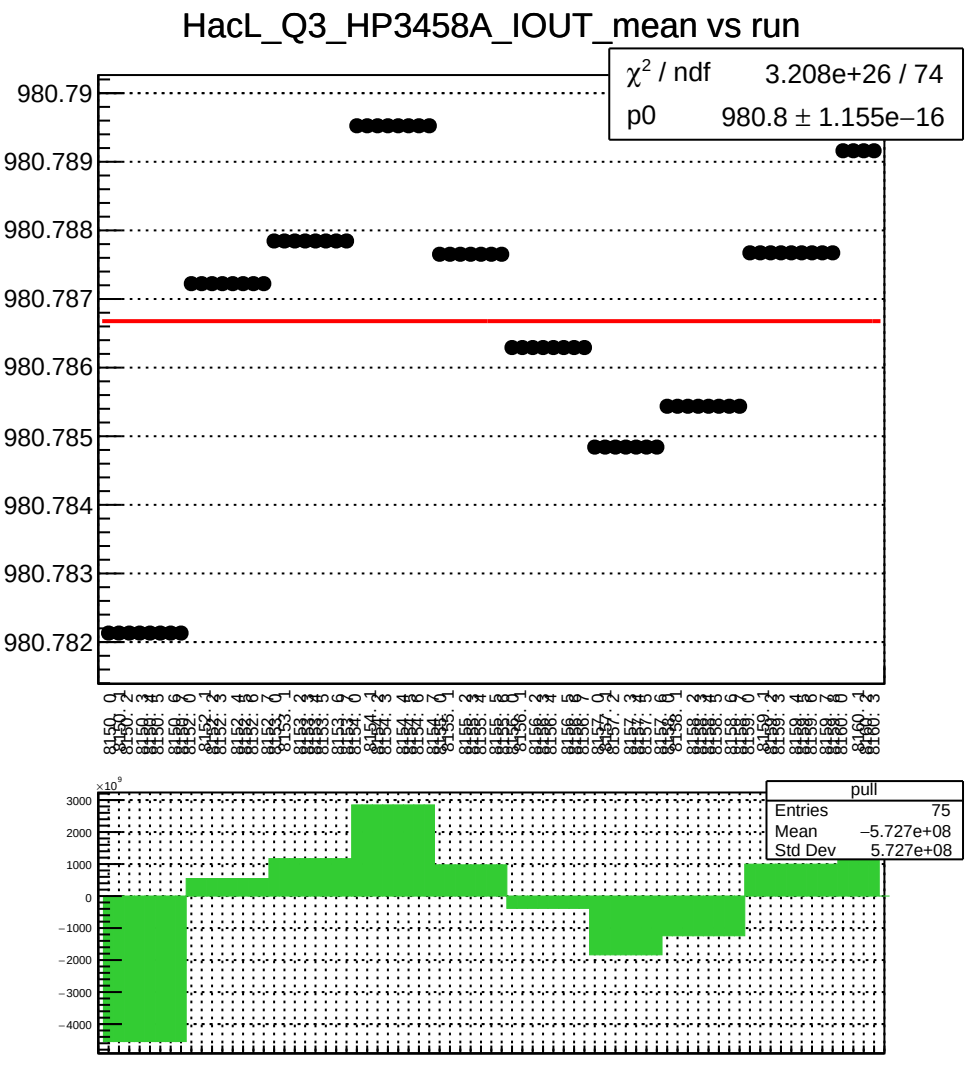

pull1D
Entries 75
Mean 0.01214
Std Dev 4.939e−10

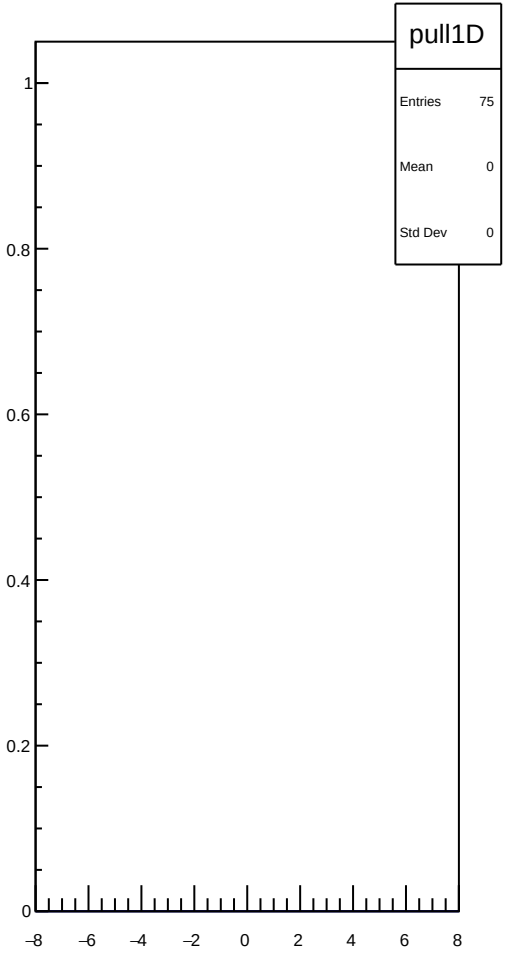

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.06e+26 / 74
p0 931.8 ± 1.155e−16
931.77
931.769
931.768
931.767
931.766
931.765
pull
Entries 75
Mean −6.948e+07
Std Dev 6.948e+07
×10⁹
3000
2000
1000
0
−1000
−2000

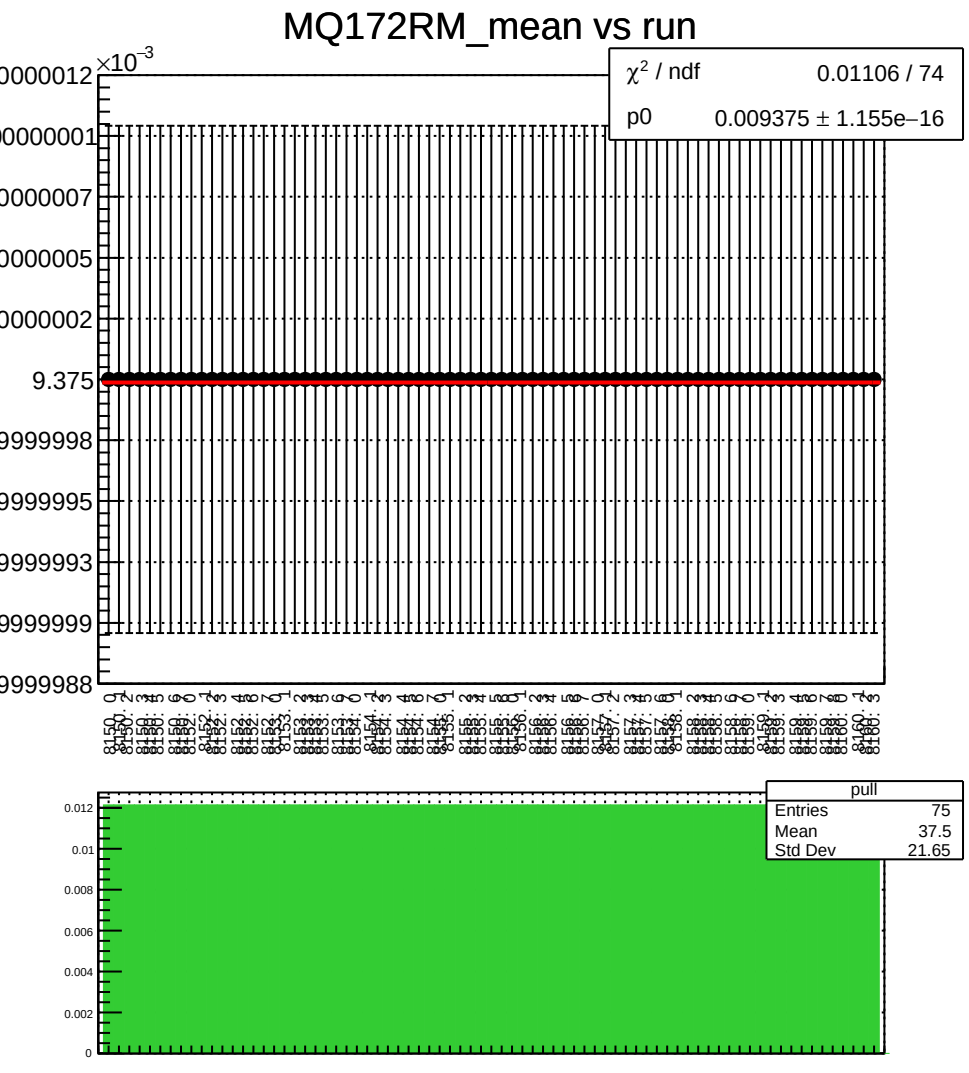

pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

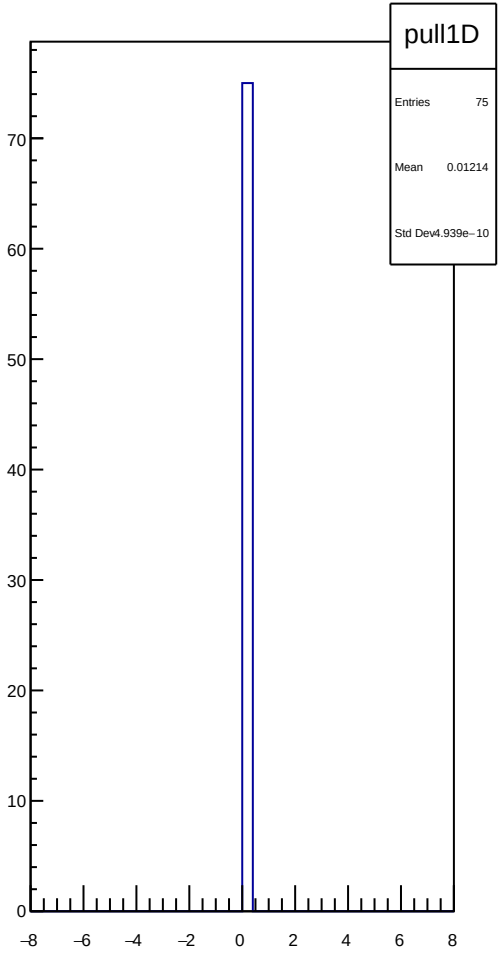

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.082e+27 / 74
p0 741 ± 1.155e−16
741.028
741.026
741.024
741.022
741.02
741.018
×10⁹
6000
4000
2000
0
−2000
−4000
pull
Entries 75
Mean −1.769e+08
Std Dev 1.769e+08

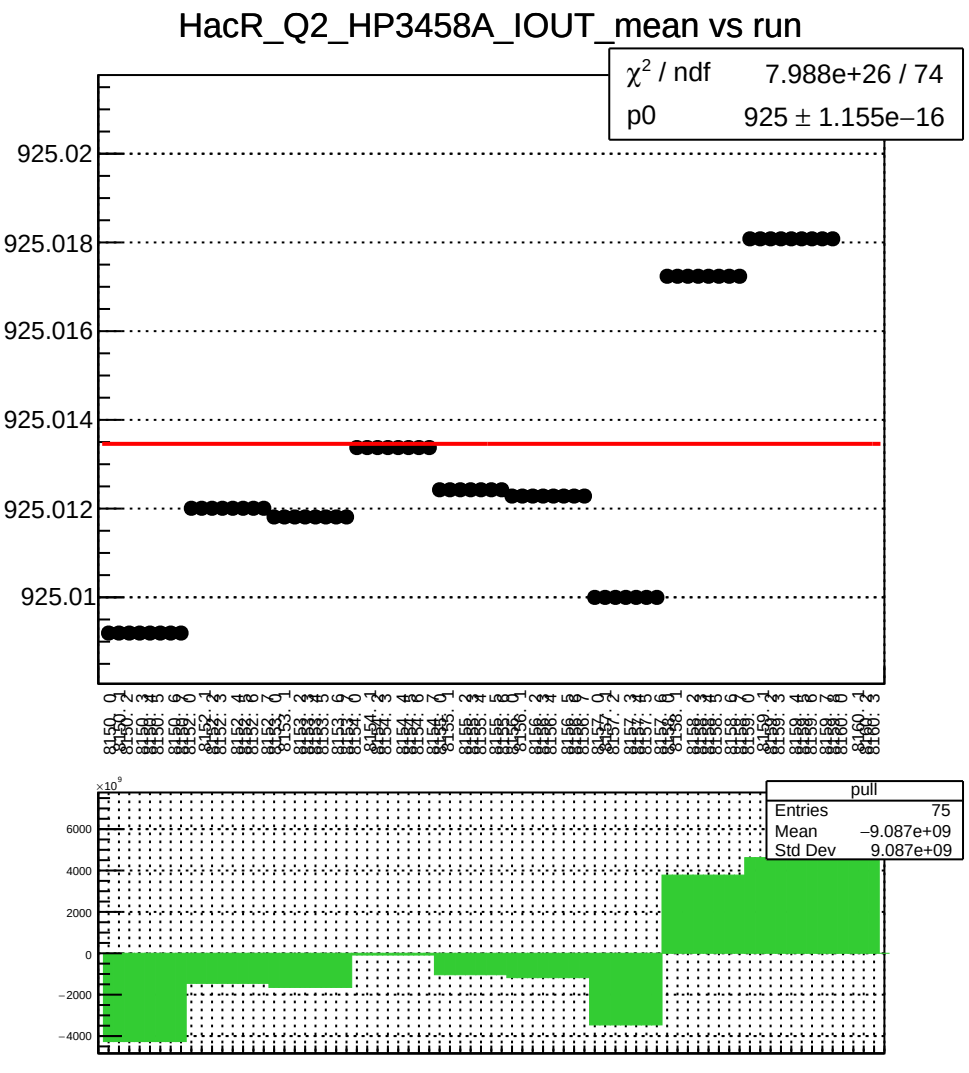

pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

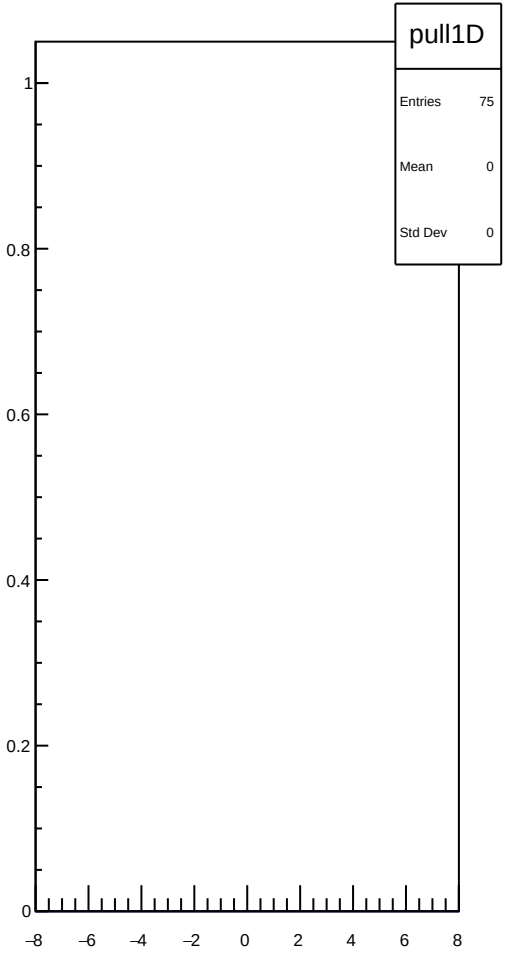

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.208e+26 / 74
p0 980.8 ± 1.155e−16
980.79
980.789
980.788
980.787
980.786
980.785
980.784
980.783
980.782
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 75
Mean −5.727e+08
Std Dev 5.727e+08

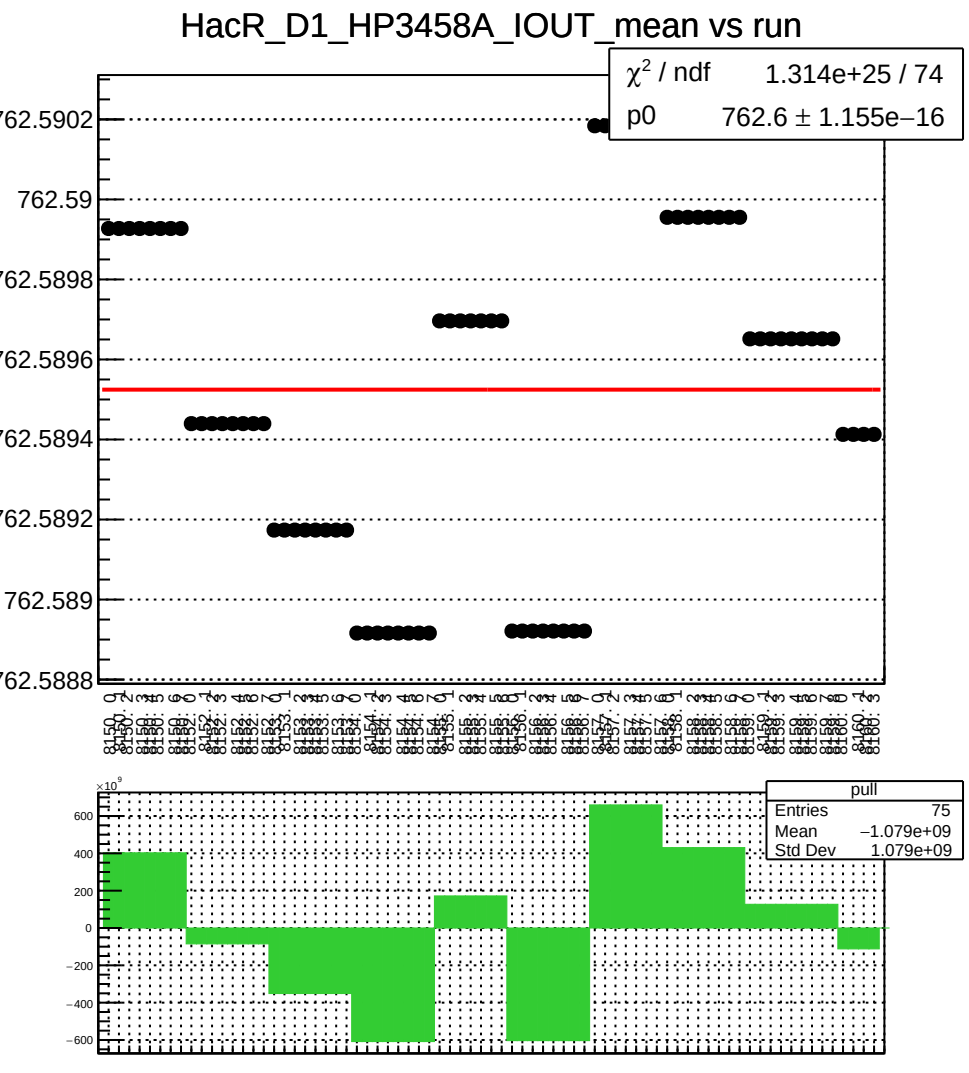

pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

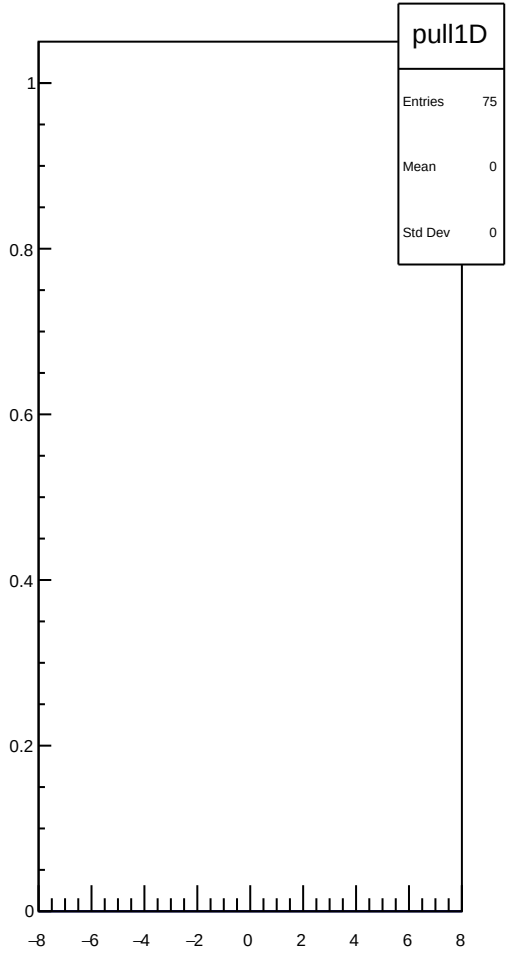

MQ172RM_mean vs run
χ² / ndf 0.01106 / 74
p0 0.009375 ± 1.155e−16
×10⁻³
pull
Entries 75
Mean 37.5
Std Dev 21.65

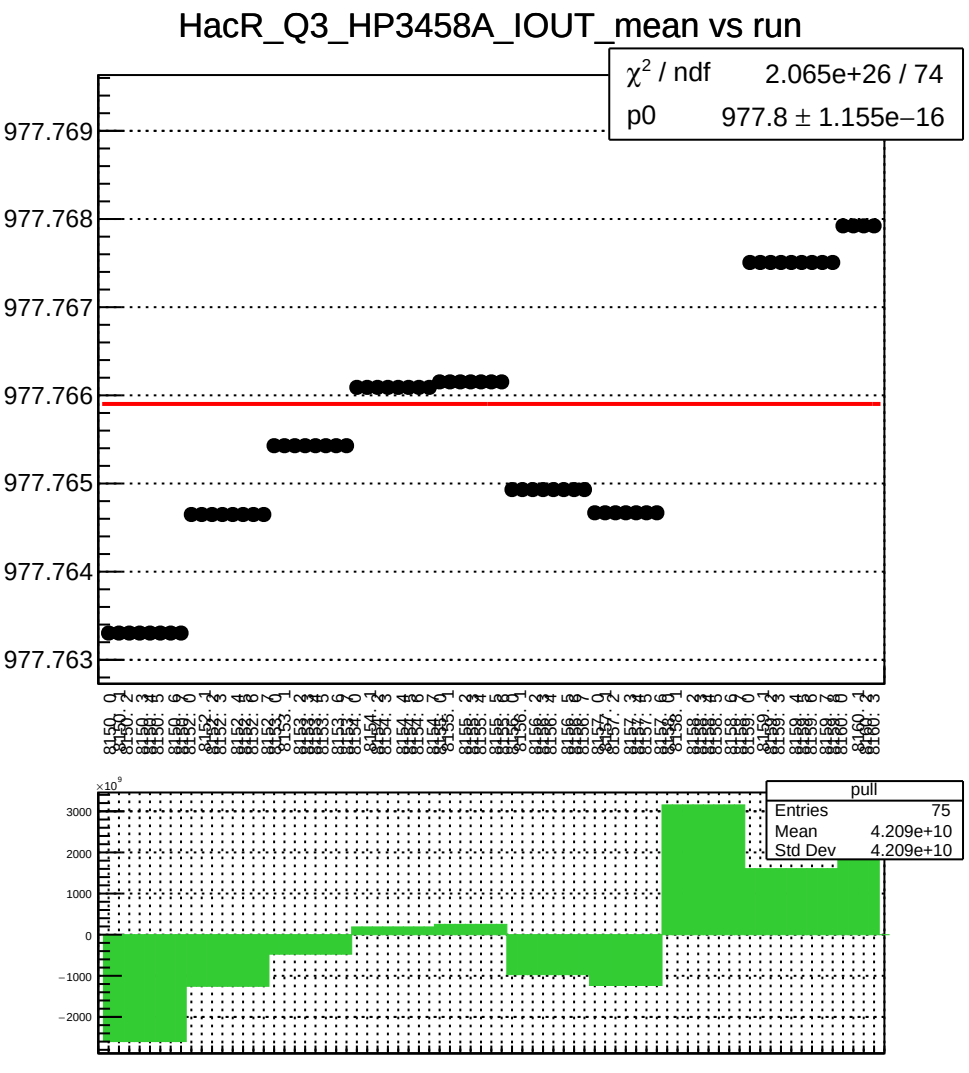

pull1D
Entries 75
Mean 0.01214
Std Dev 4.939e−10

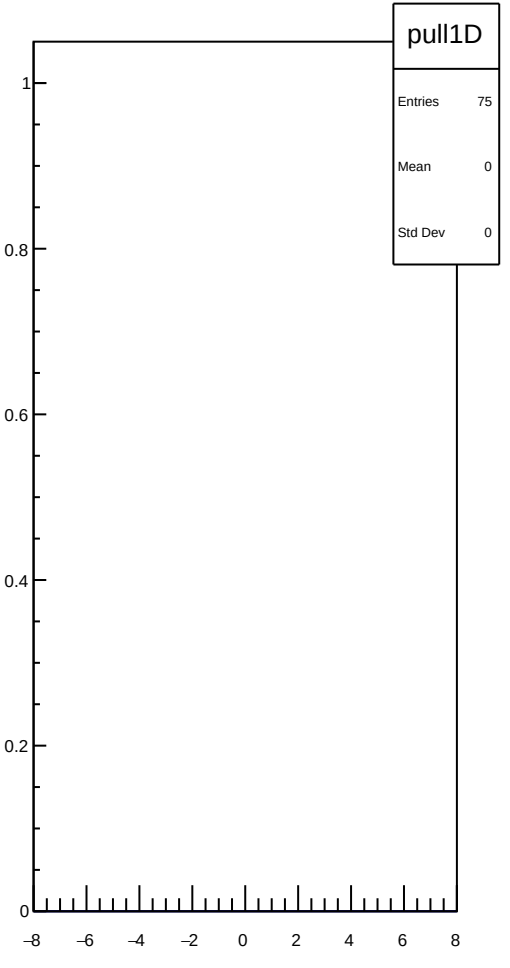

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 7.988e+26 / 74
p0 925 ± 1.155e−16
925.02
925.018
925.016
925.014
925.012
925.01
pull
Entries 75
Mean −9.087e+09
Std Dev 9.087e+09
×10⁹
6000
4000
2000
0
−2000
−4000

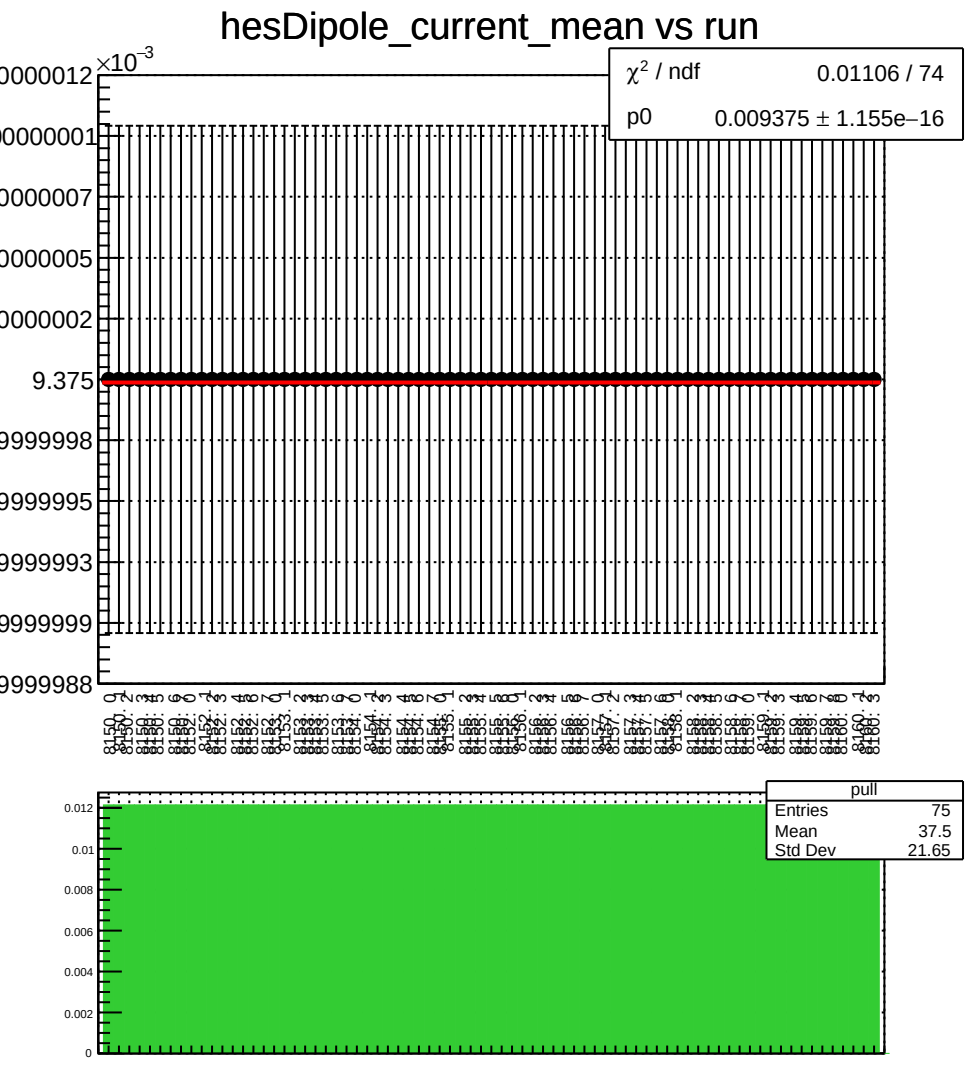

pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

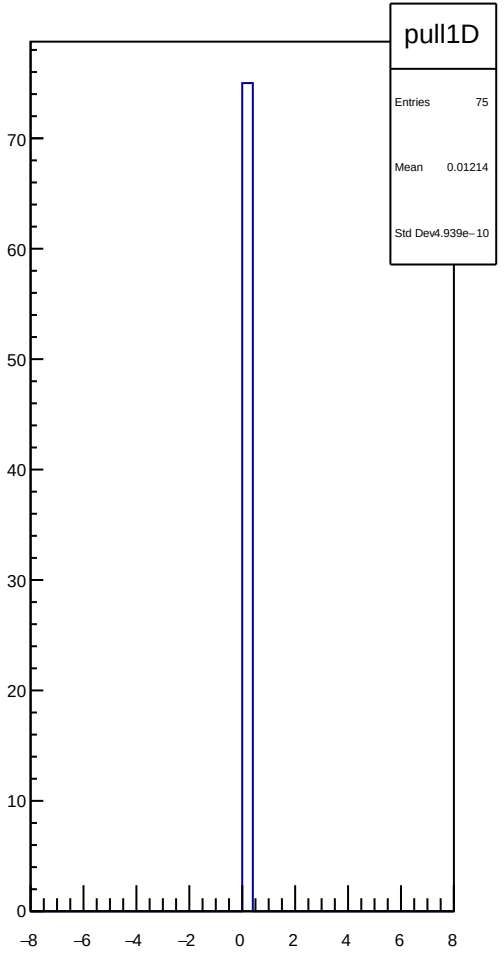

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.314e+25 / 74
p0 762.6 ± 1.155e−16
762.5902
762.59
762.5898
762.5896
762.5894
762.5892
762.589
762.5888
pull
Entries 75
Mean −1.079e+09
Std Dev 1.079e+09
×10⁹
600
400
200
0
−200
−400
−600

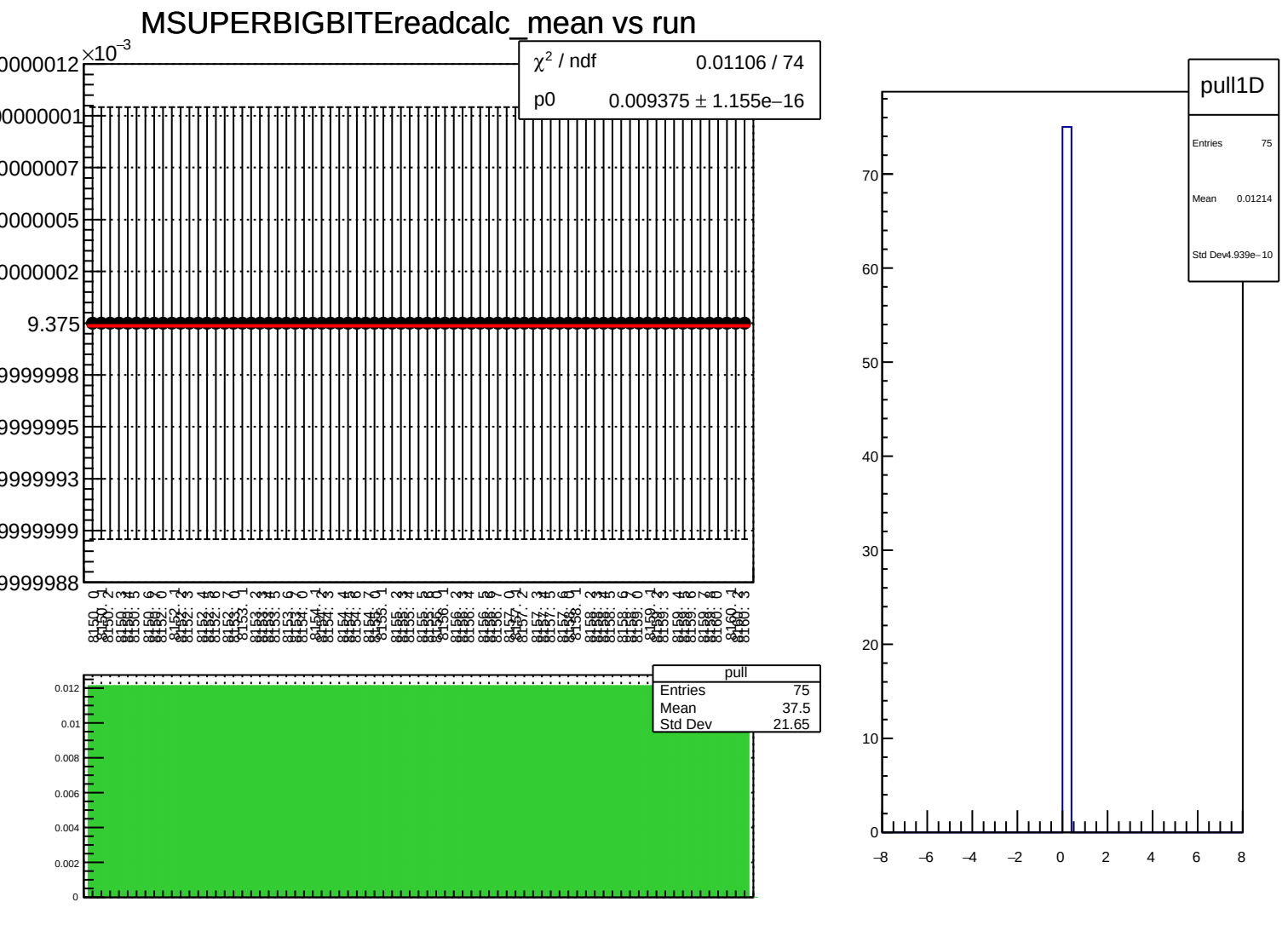

pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

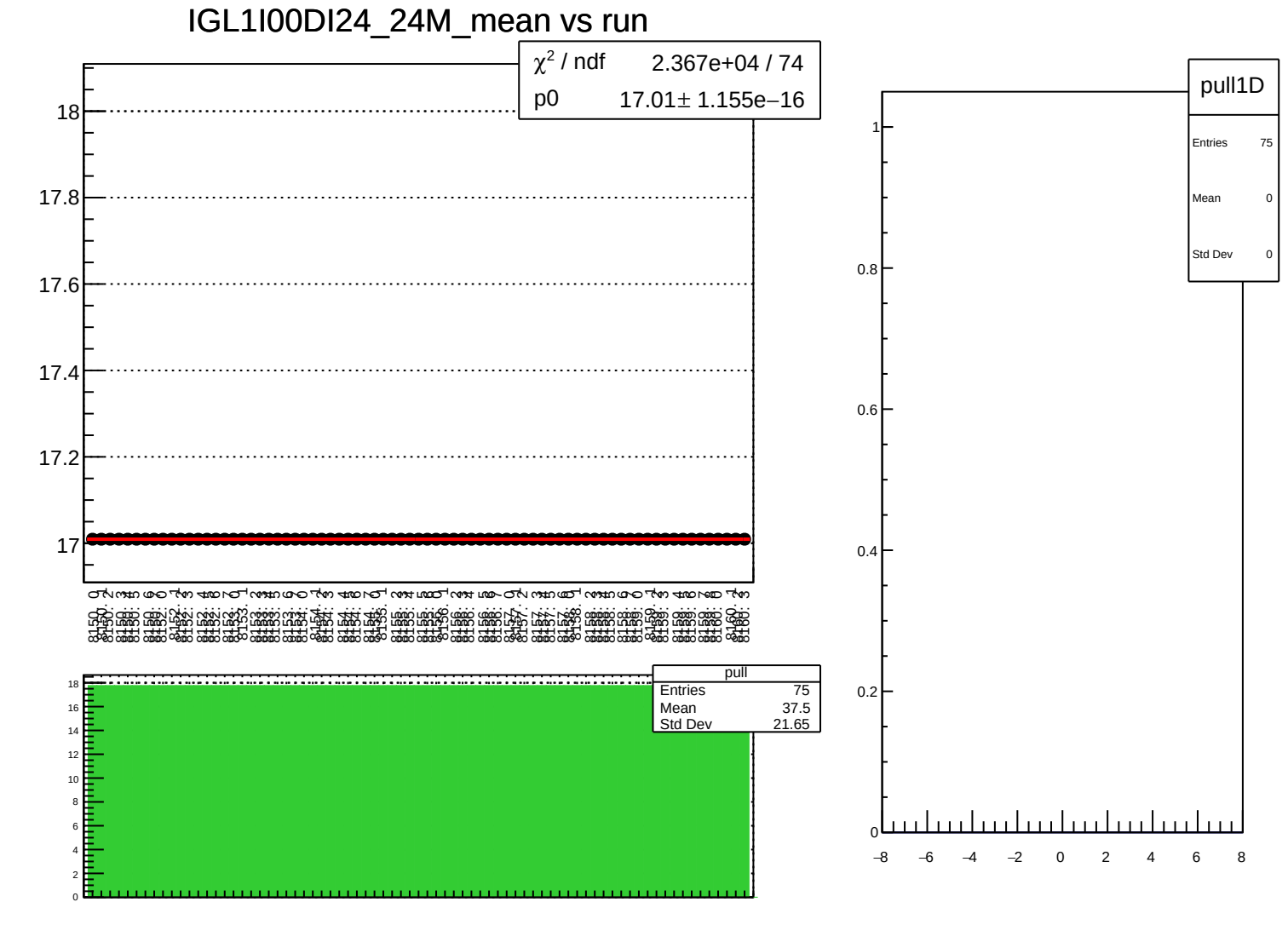

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.065e+26 / 74
p0 977.8 ± 1.155e−16
977.769
977.768
977.767
977.766
977.765
977.764
977.763
pull
Entries 75
Mean 4.209e+10
Std Dev 4.209e+10
×10⁹
3000
2000
1000
0
−1000
−2000

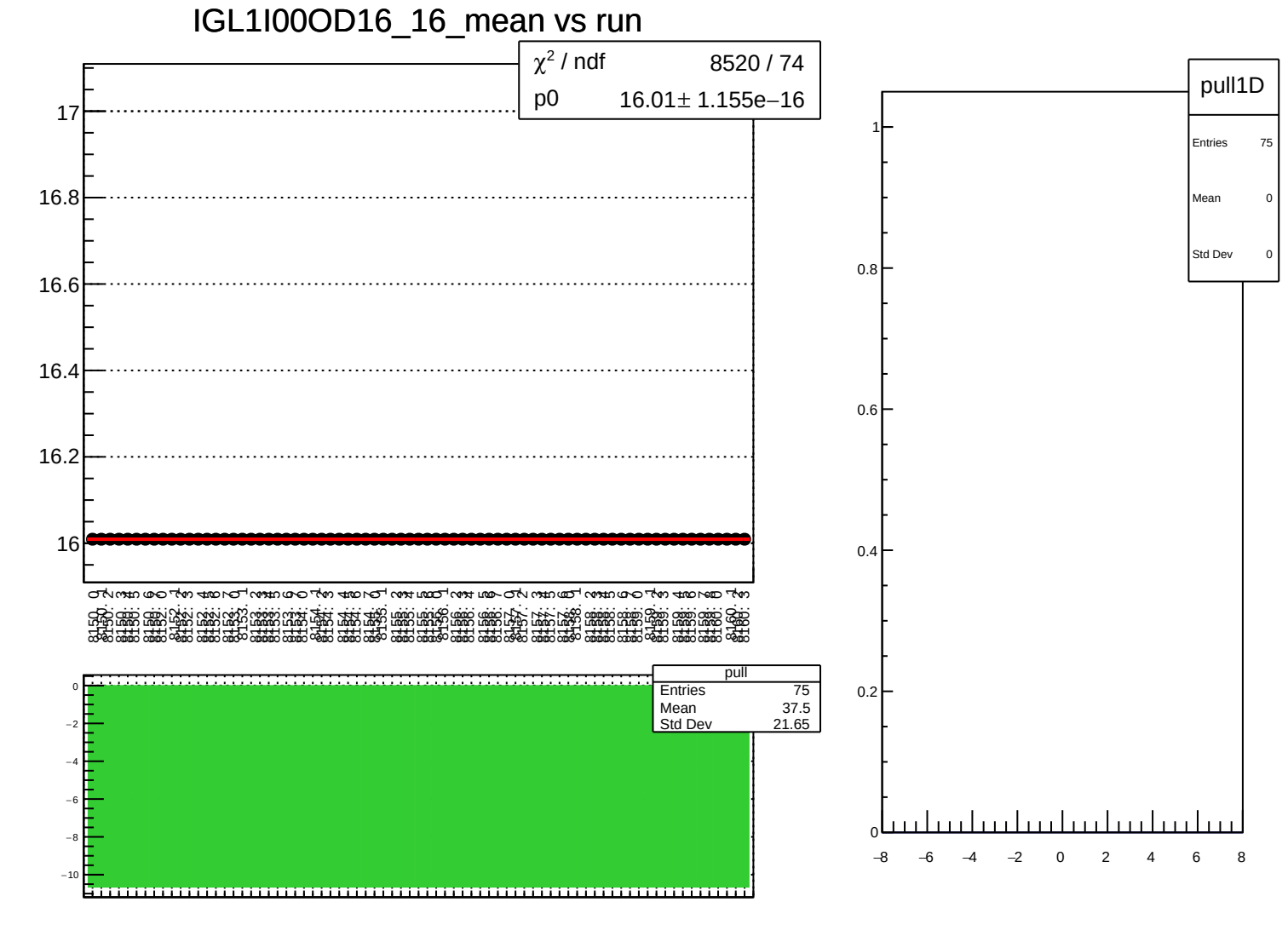

pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

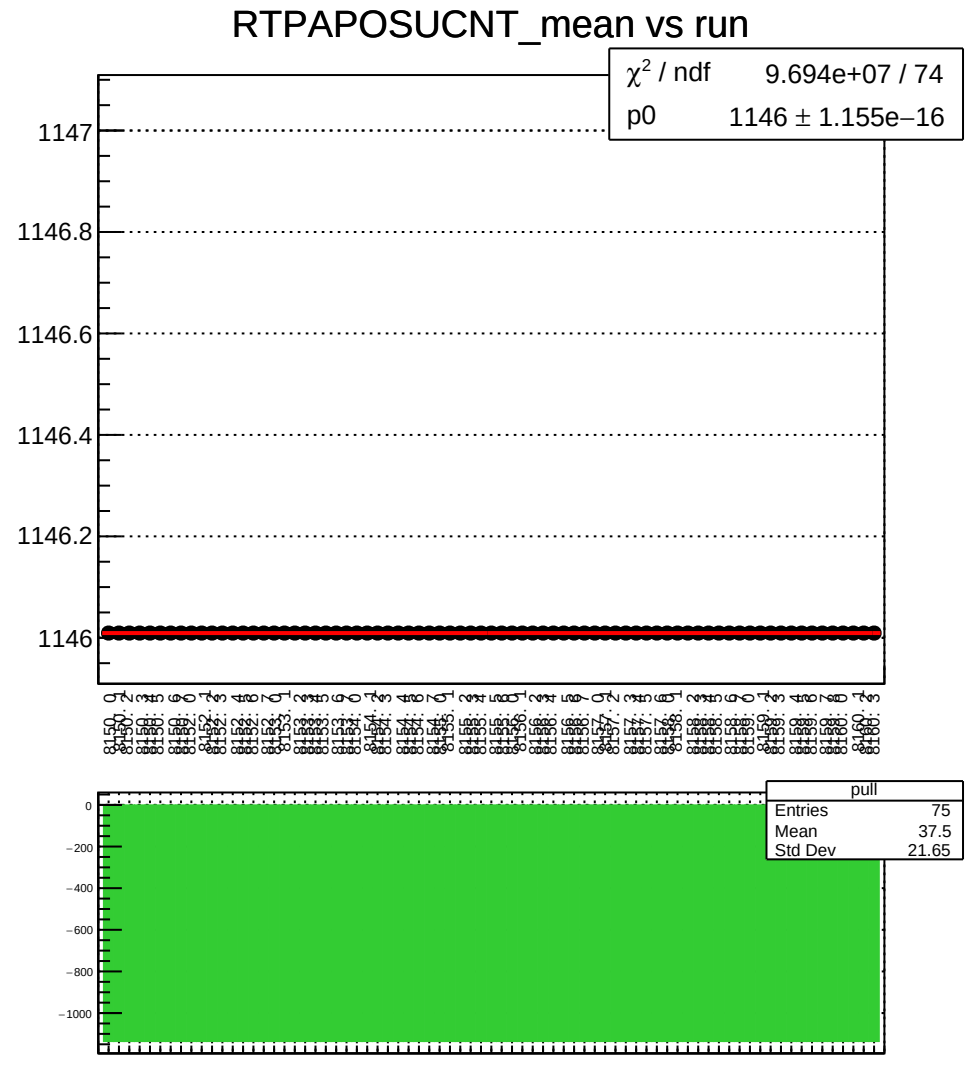

hesDipole_current_mean vs run
χ² / ndf 0.01106 / 74
p0 0.009375 ± 1.155e−16
×10⁻³
pull
Entries 75
Mean 37.5
Std Dev 21.65

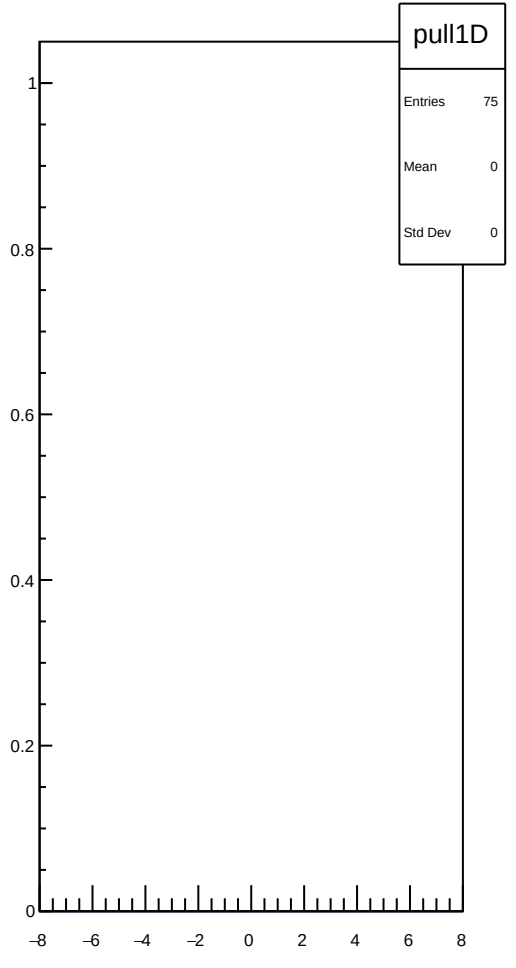

pull1D
Entries 75
Mean 0.01214
Std Dev 4.939e−10

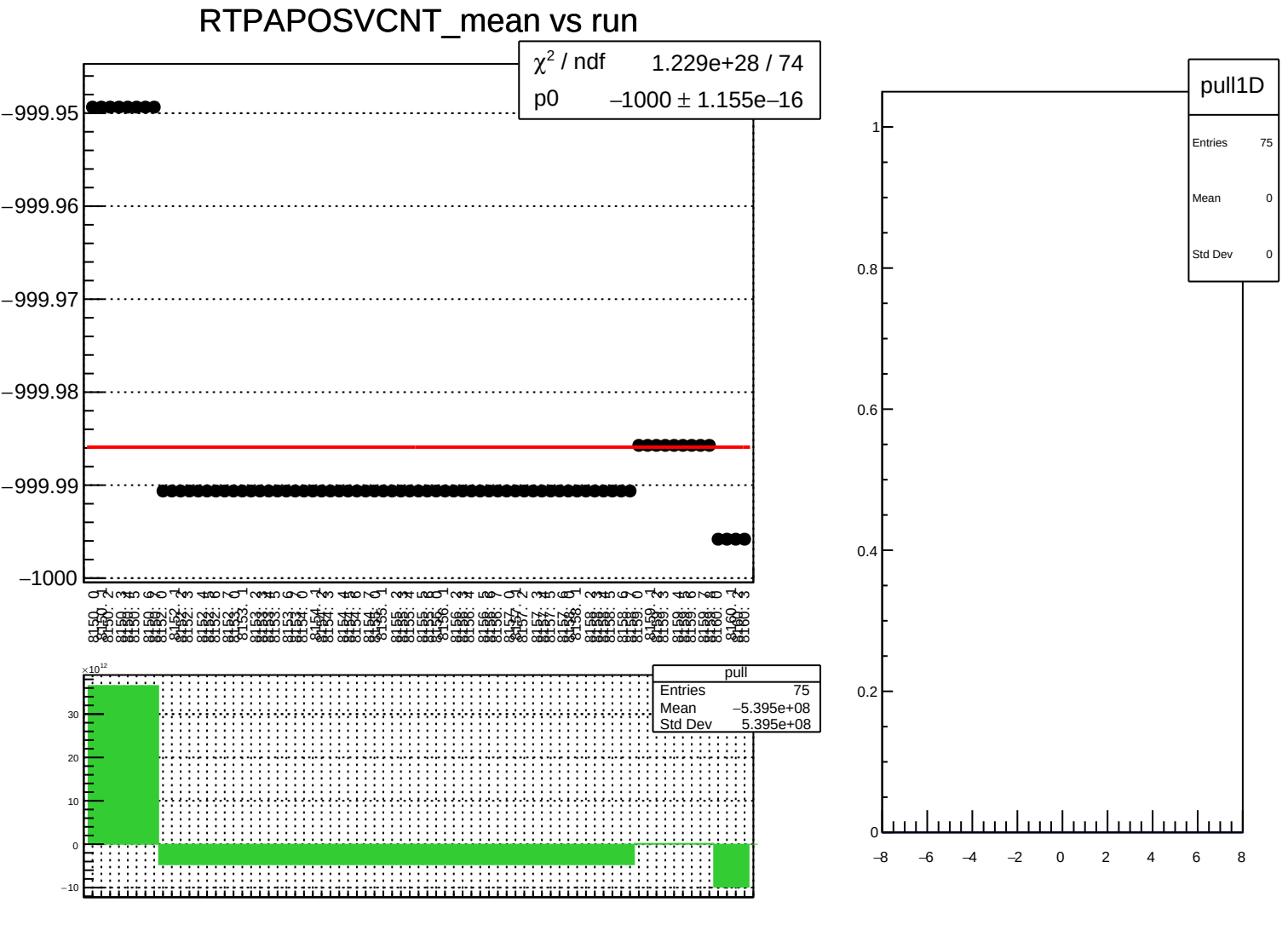

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.01106 / 74
p0 0.009375 ± 1.155e−16
×10⁻³
pull
Entries 75
Mean 37.5
Std Dev 21.65
pull1D
Entries 75
Mean 0.01214
Std Dev 4.939e−10


IGL1I00DI24_24M_mean vs run
χ² / ndf 2.367e+04 / 74
p0 17.01± 1.155e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 75
Mean 37.5
Std Dev 21.65
pull1D
Entries 75
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 8520 / 74
p0 16.01± 1.155e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 75
Mean 37.5
Std Dev 21.65
0
−2
−4
−6
−8
−10
pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 9.694e+07 / 74
p0 1146 ± 1.155e−16
1147
1146.8
1146.6
1146.4
1146.2
1146
pull
Entries 75
Mean 37.5
Std Dev 21.65
0
−200
−400
−600
−800
−1000


pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 1.229e+28 / 74
p0 −1000 ± 1.155e−16
−999.95
−999.96
−999.97
−999.98
−999.99
−1000
pull
Entries 75
Mean −5.395e+08
Std Dev 5.395e+08
×10¹²
30
20
10
0
−10
pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8