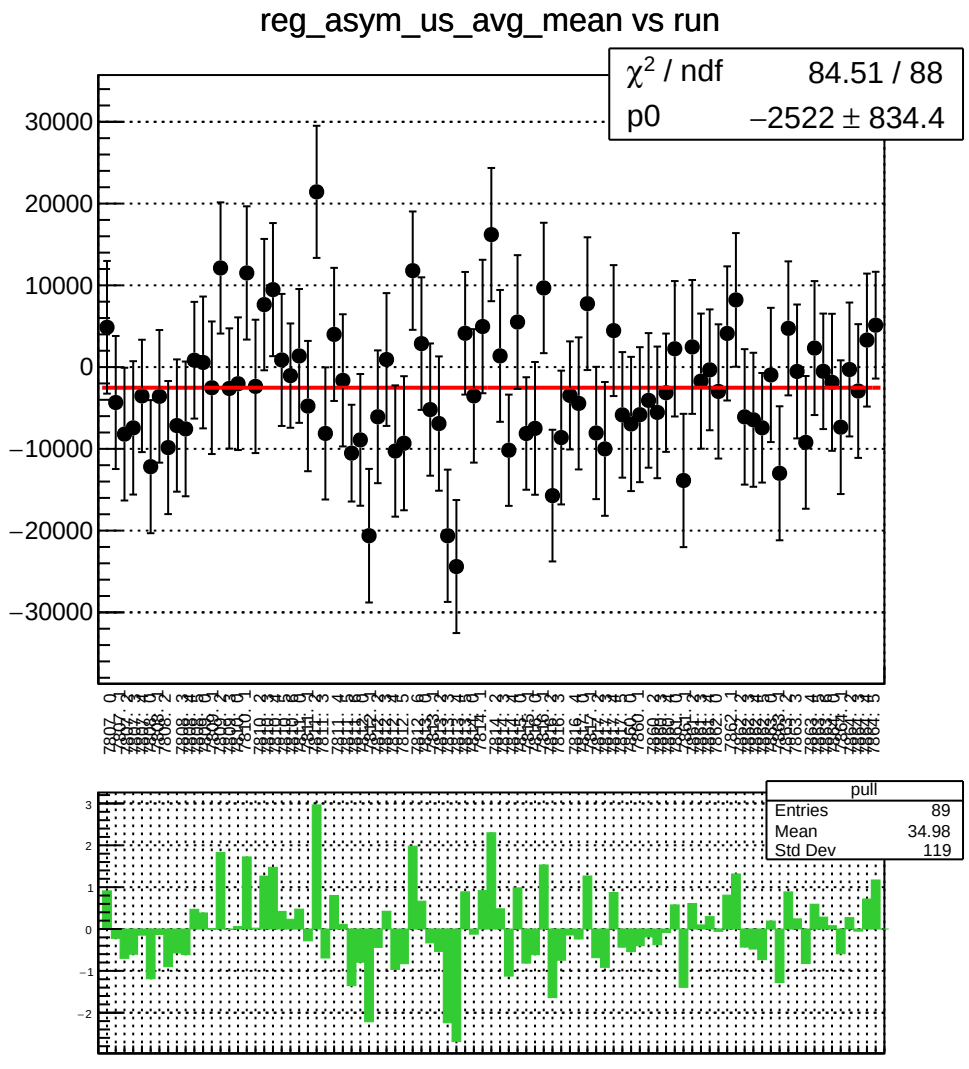
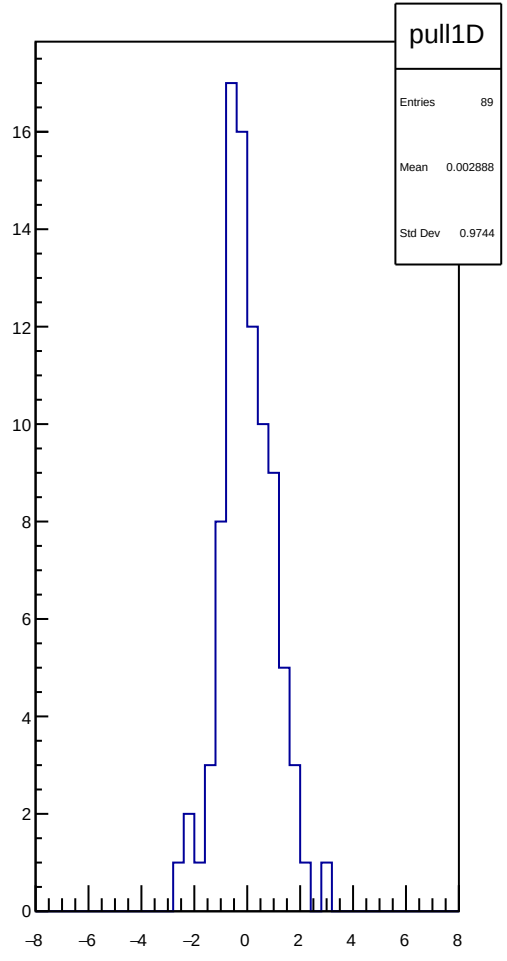
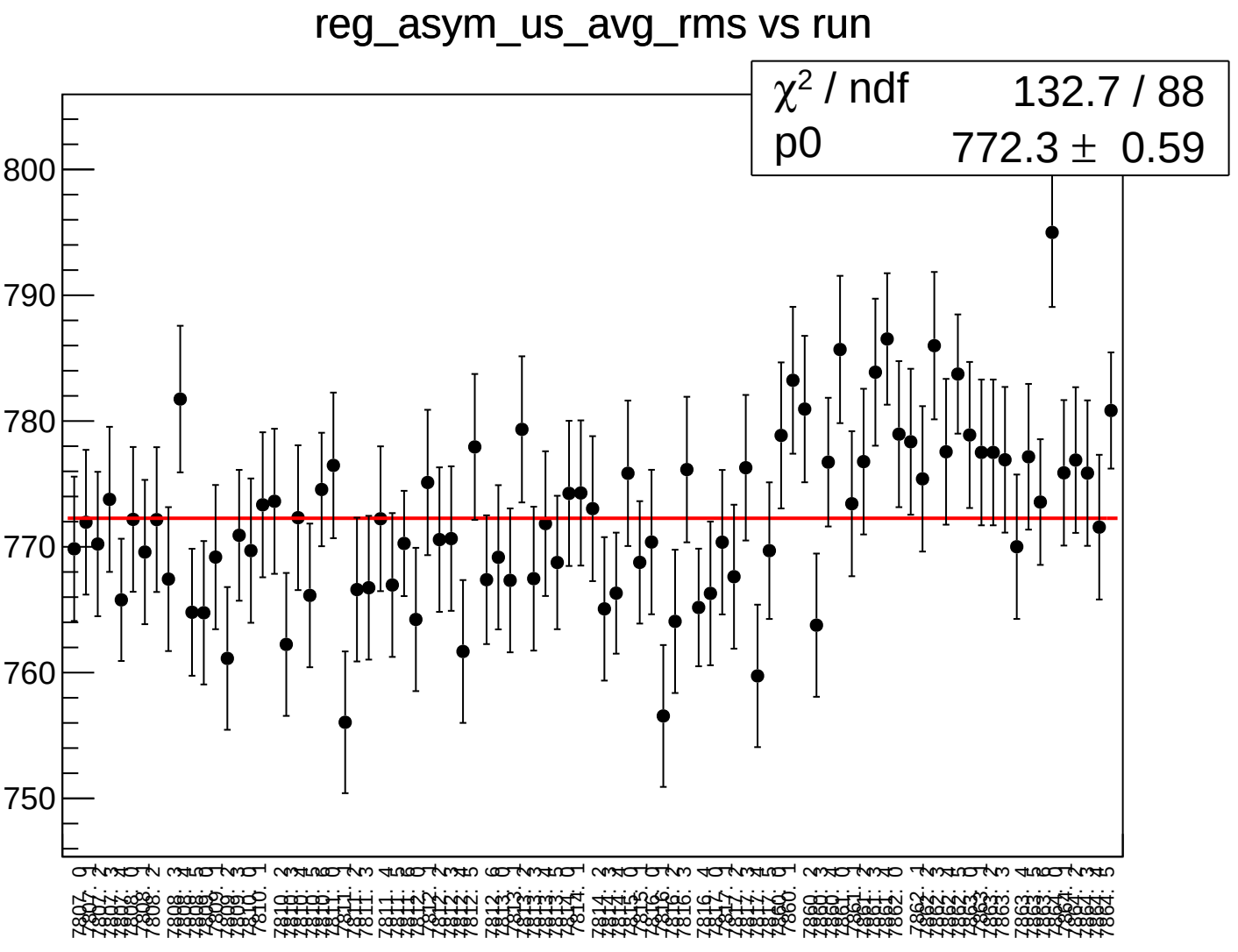
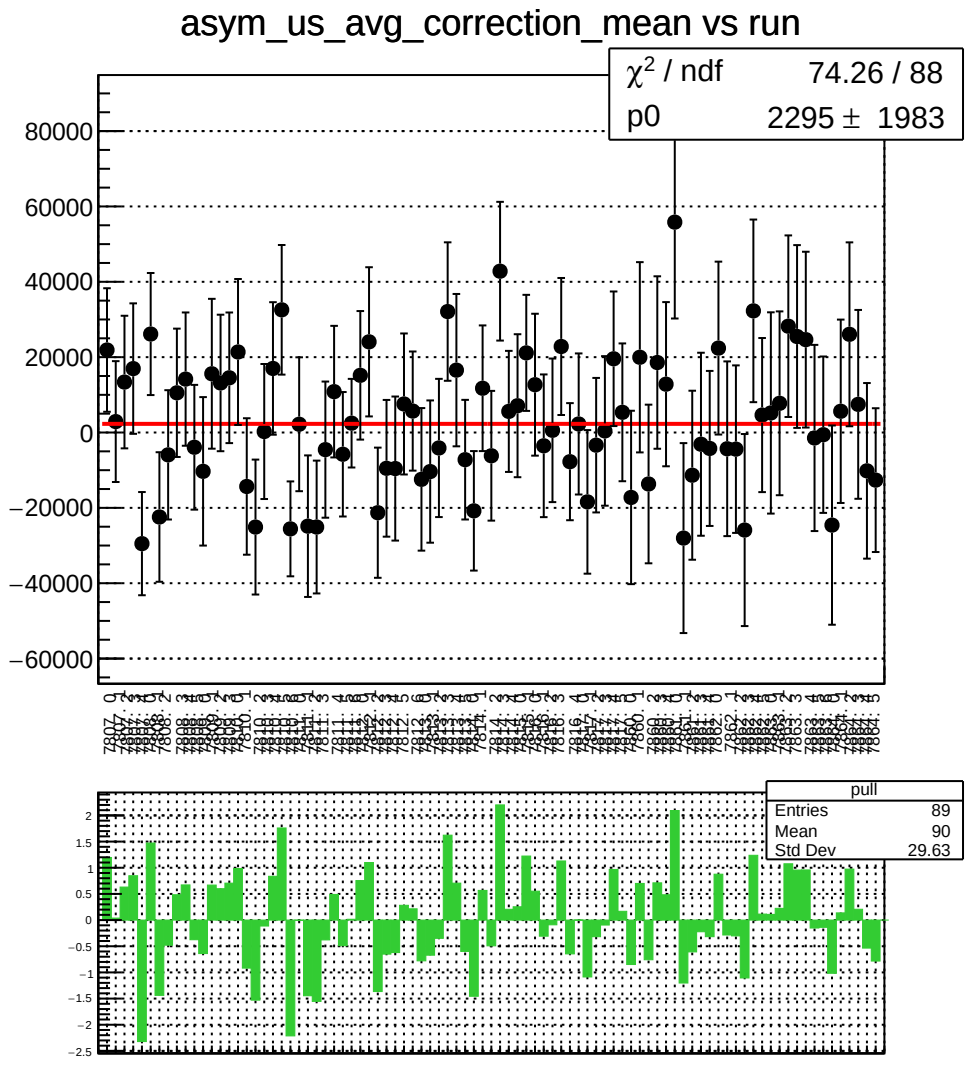
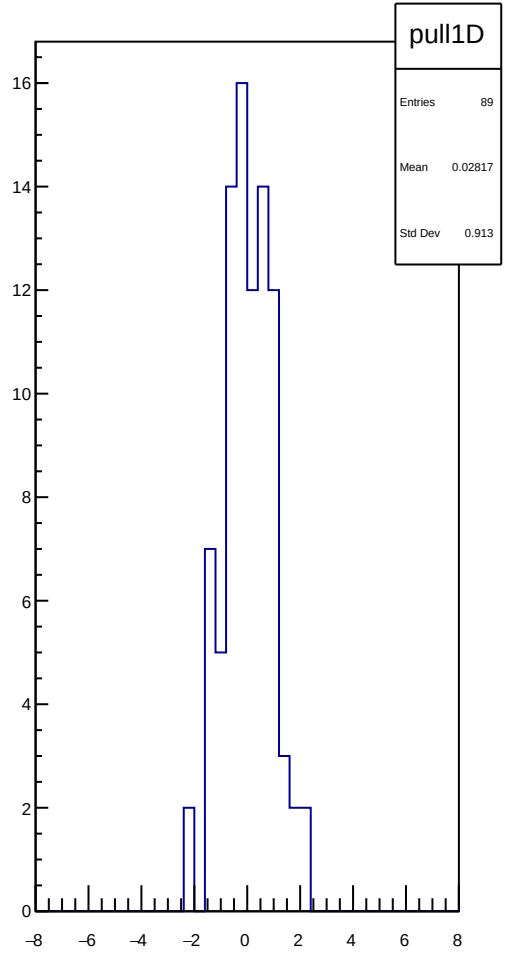
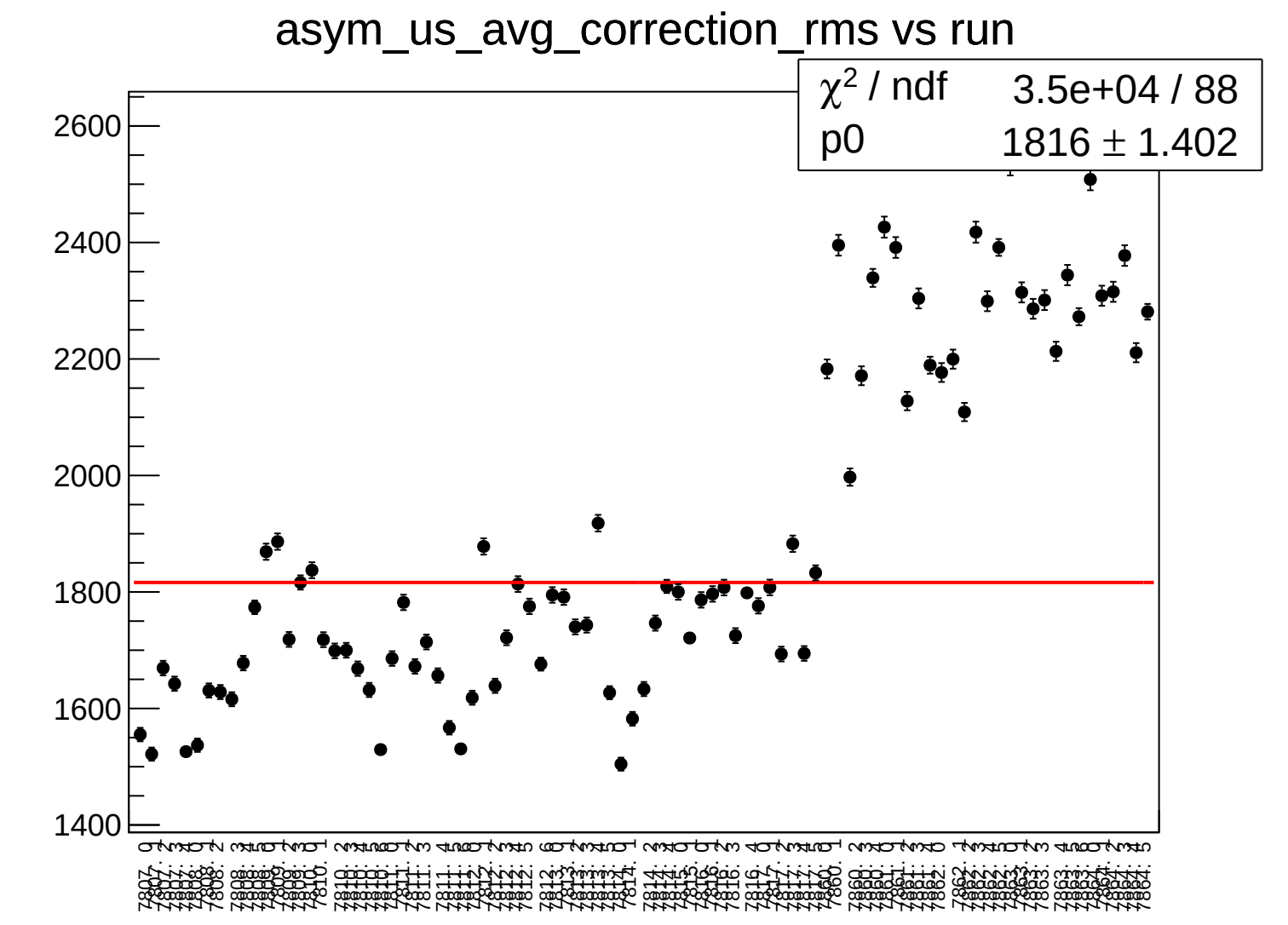

reg_asym_us_avg_mean vs run
χ^2 / ndf 84.51 / 88
p0 −2522 ± 834.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 34.98
Std Dev 119
3
2
1
0
−1
−2

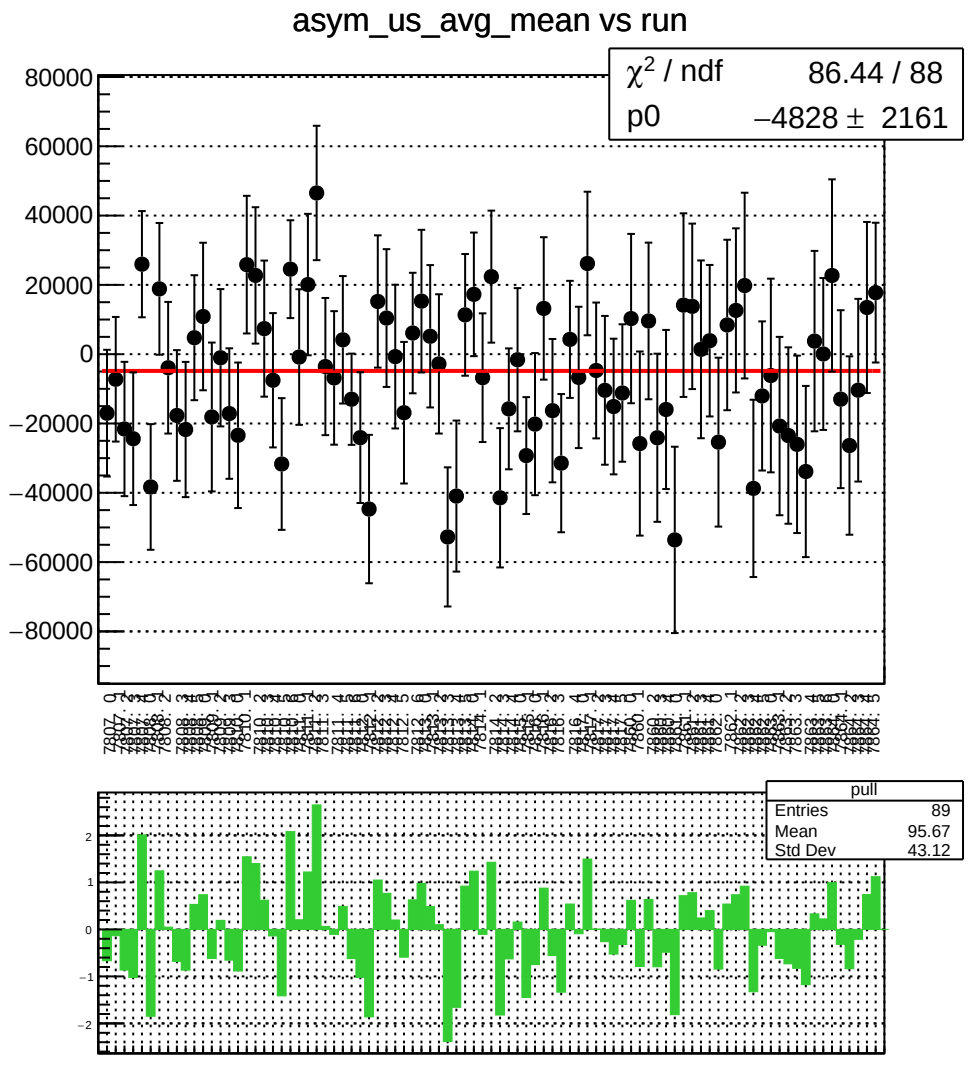

pull1D
Entries 89
Mean 0.002888
Std Dev 0.9744
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

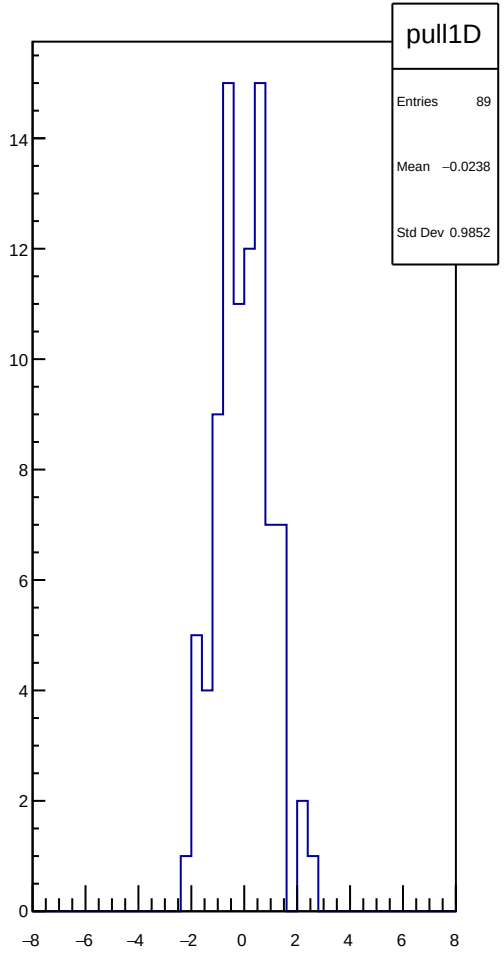

reg_asym_us_avg_rms vs run
χ² / ndf 132.7 / 88
p0 772.3 ± 0.59
800
790
780
770
760
750

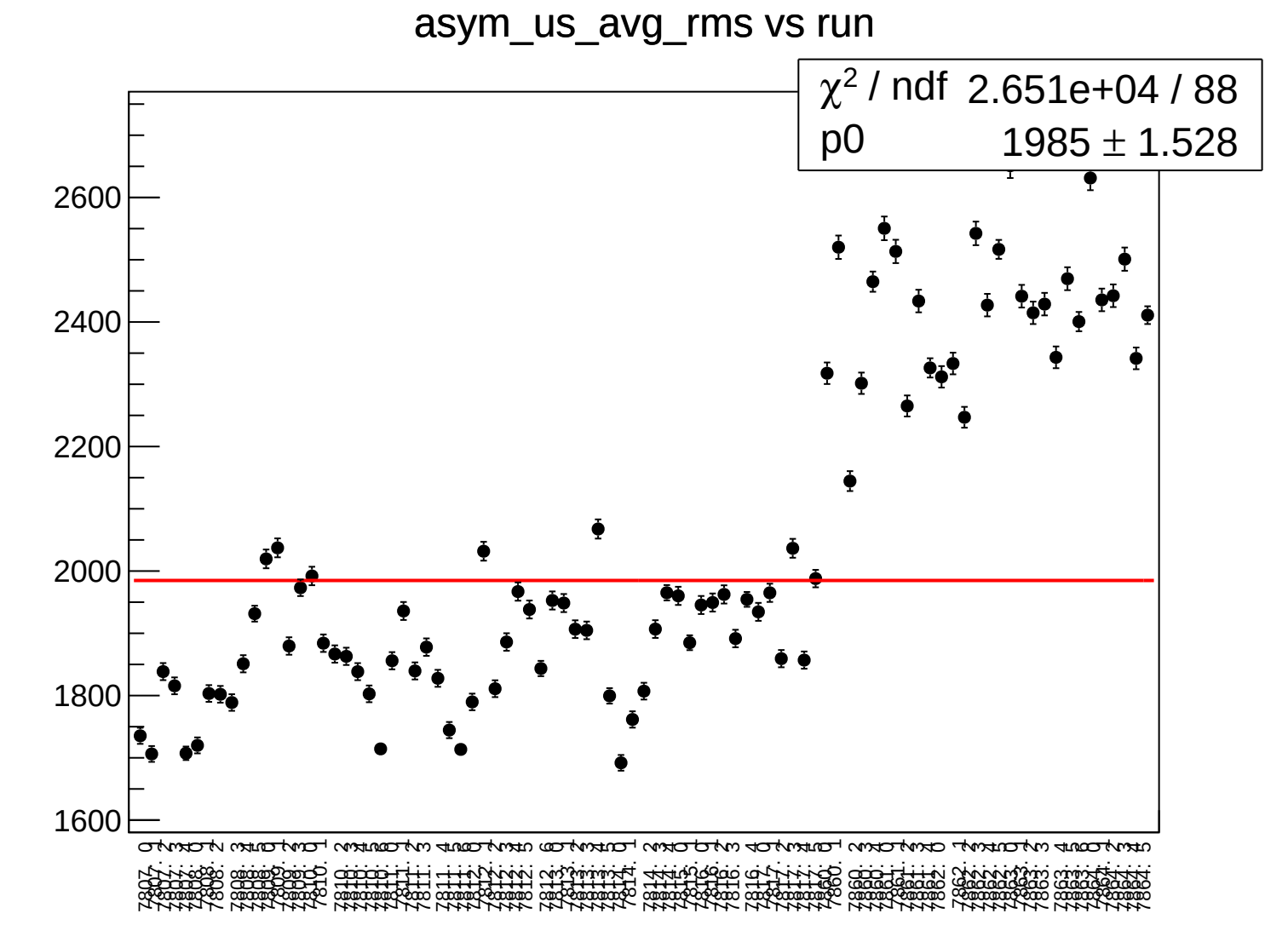

asym_us_avg_correction_mean vs run
χ² / ndf 74.26 / 88
p0 2295 ± 1983
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 90
Std Dev 29.63
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

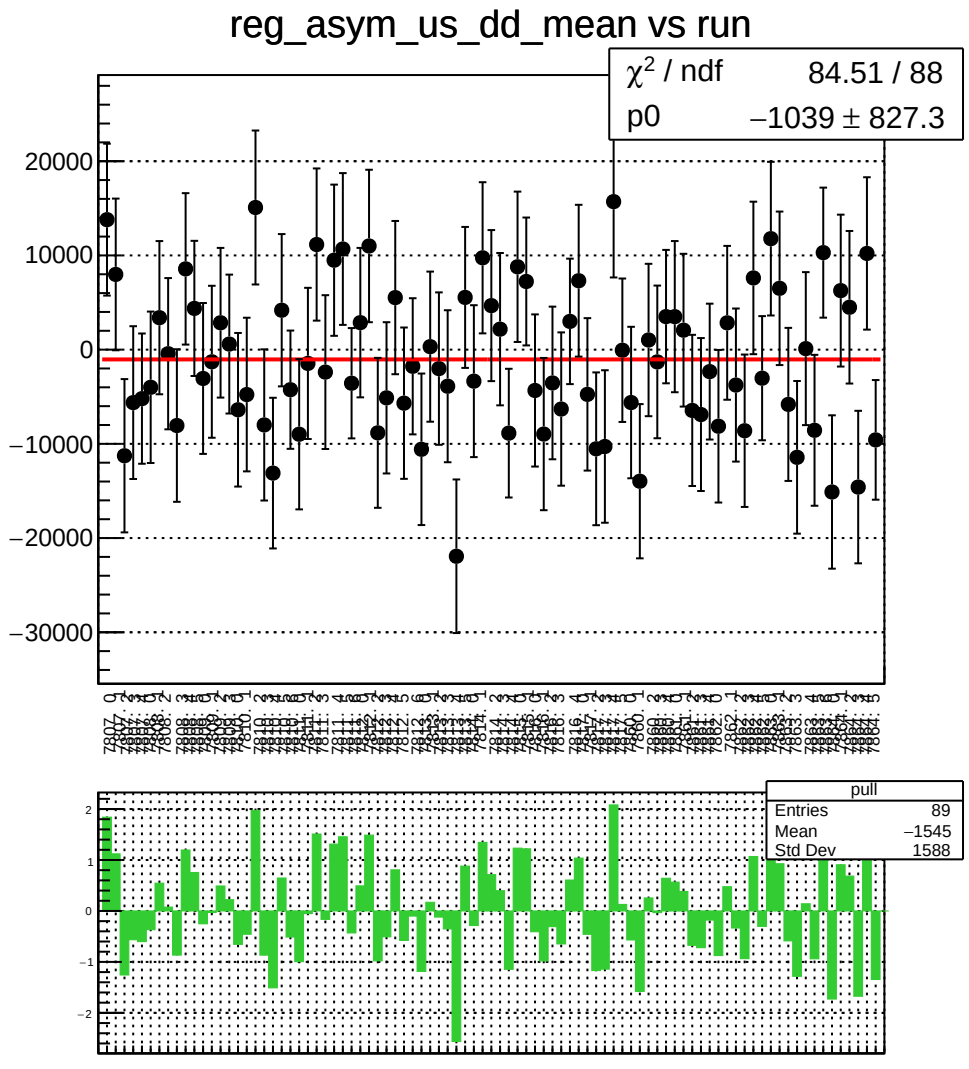

pull1D
Entries 89
Mean 0.02817
Std Dev 0.913
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

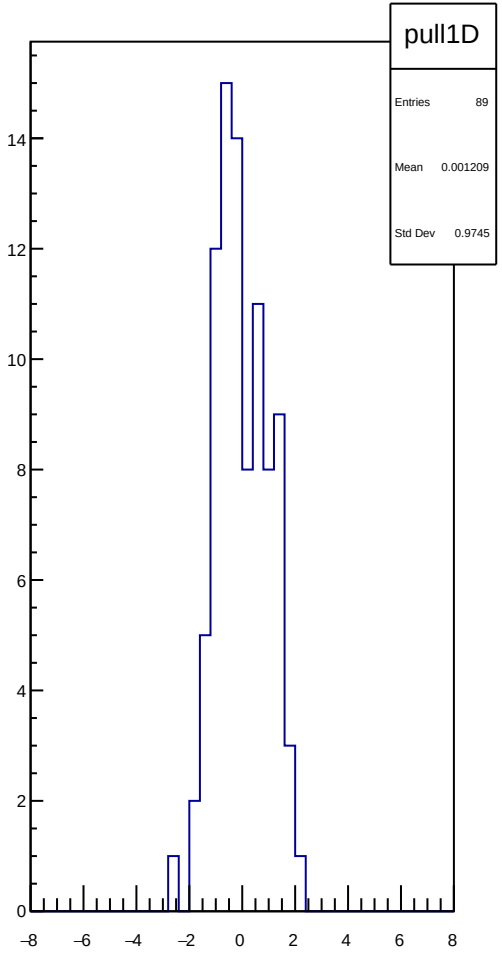

asym_us_avg_correction_rms vs run
χ² / ndf 3.5e+04 / 88
p0 1816 ± 1.402
2600
2400
2200
2000
1800
1600
1400

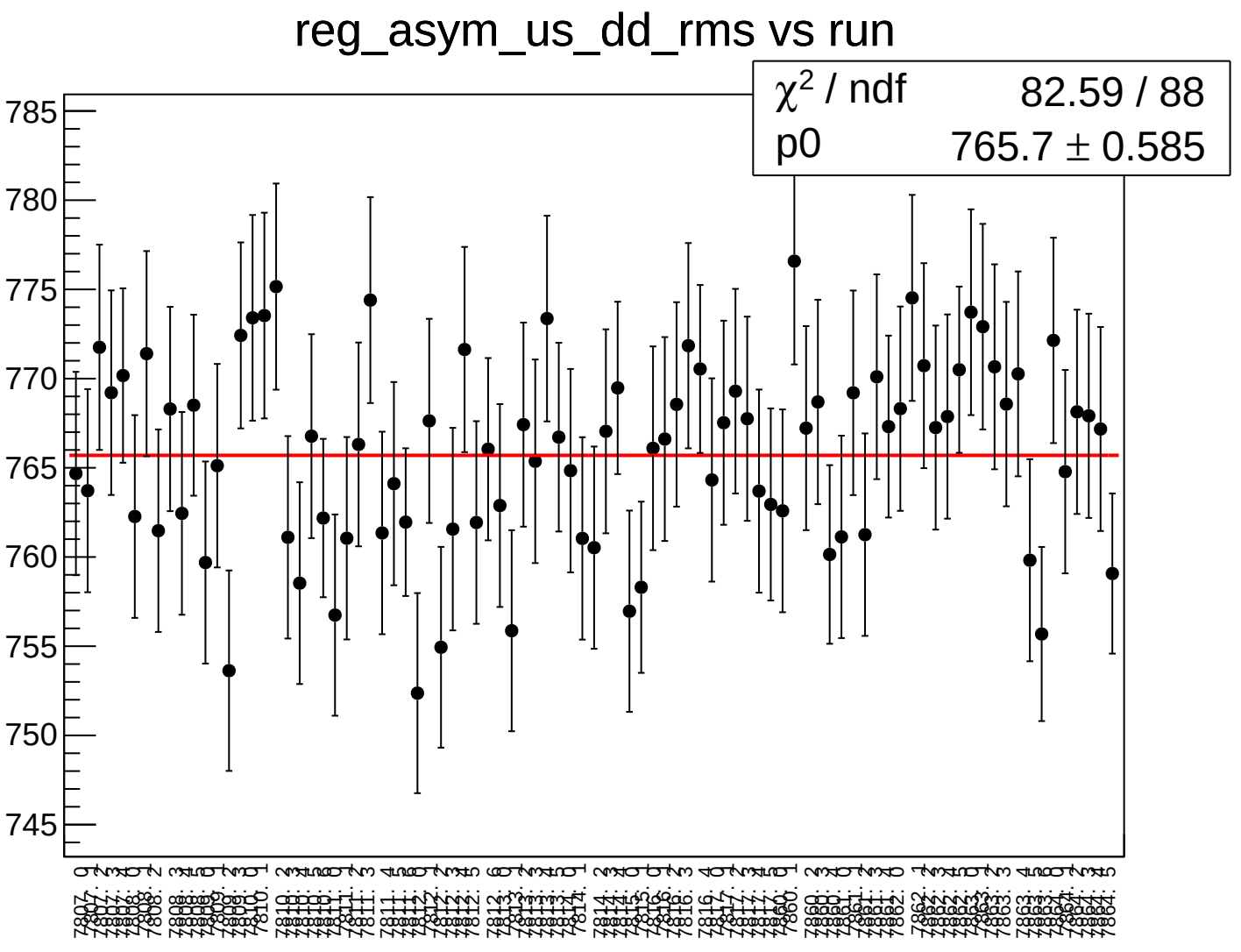

asym_us_avg_mean vs run
χ² / ndf 86.44 / 88
p0 −4828 ± 2161
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 95.67
Std Dev 43.12
2
1
0
−1
−2

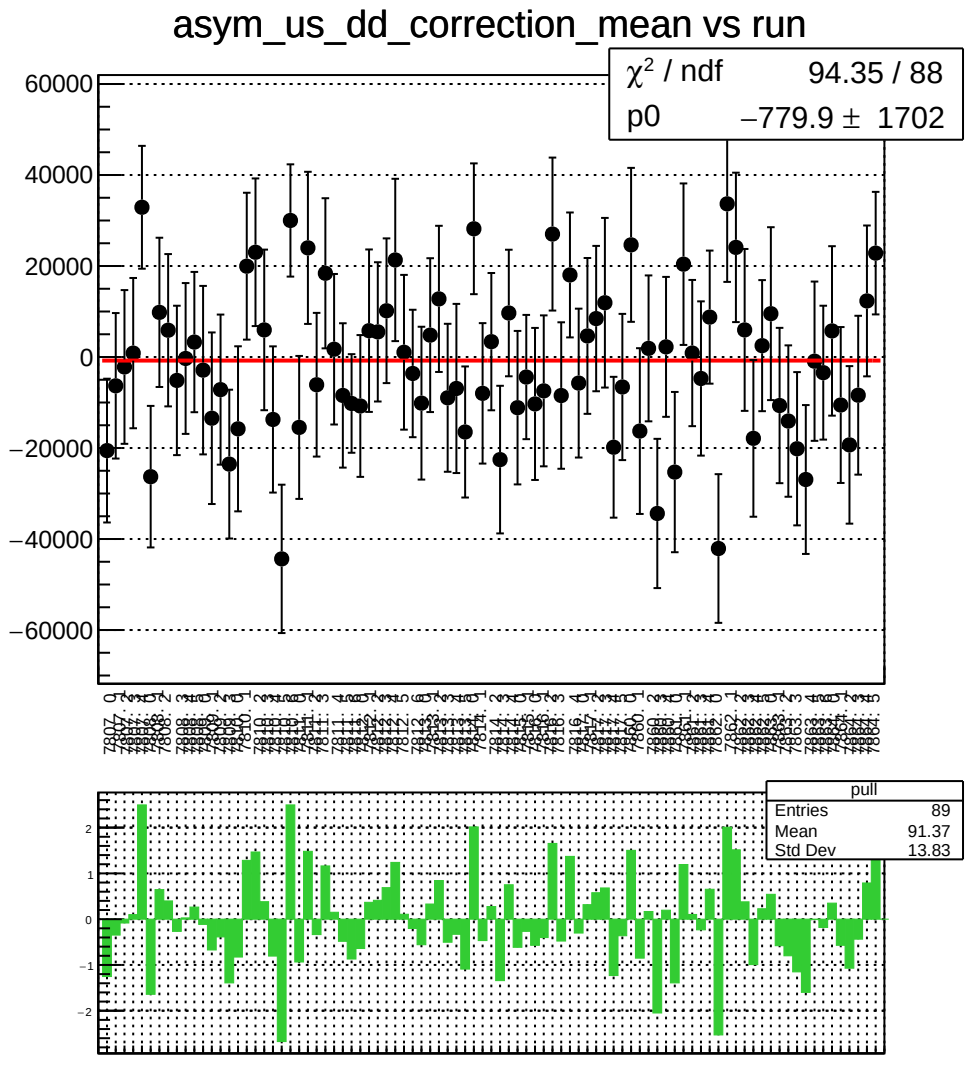

pull1D
Entries 89
Mean −0.0238
Std Dev 0.9852
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

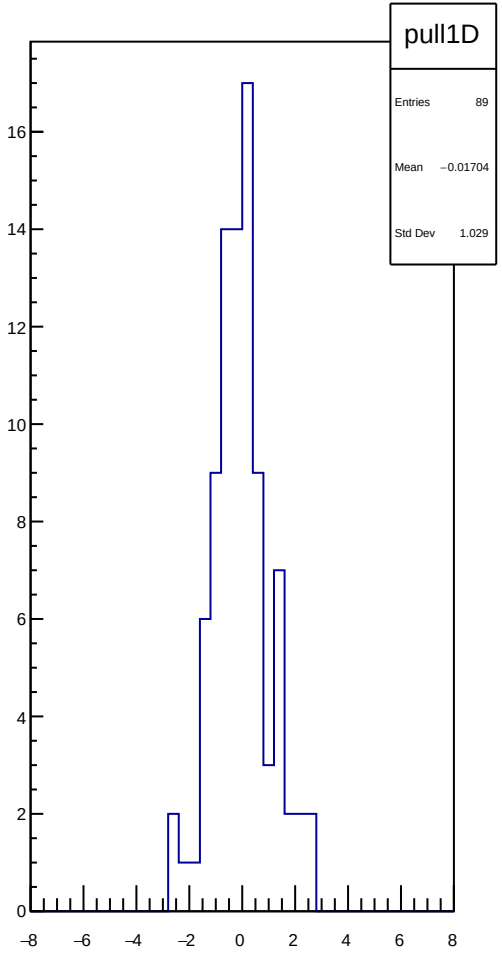

asym_us_avg_rms vs run
χ^2 / ndf 2.651e+04 / 88
p0 1985 ± 1.528
2600
2400
2200
2000
1800
1600

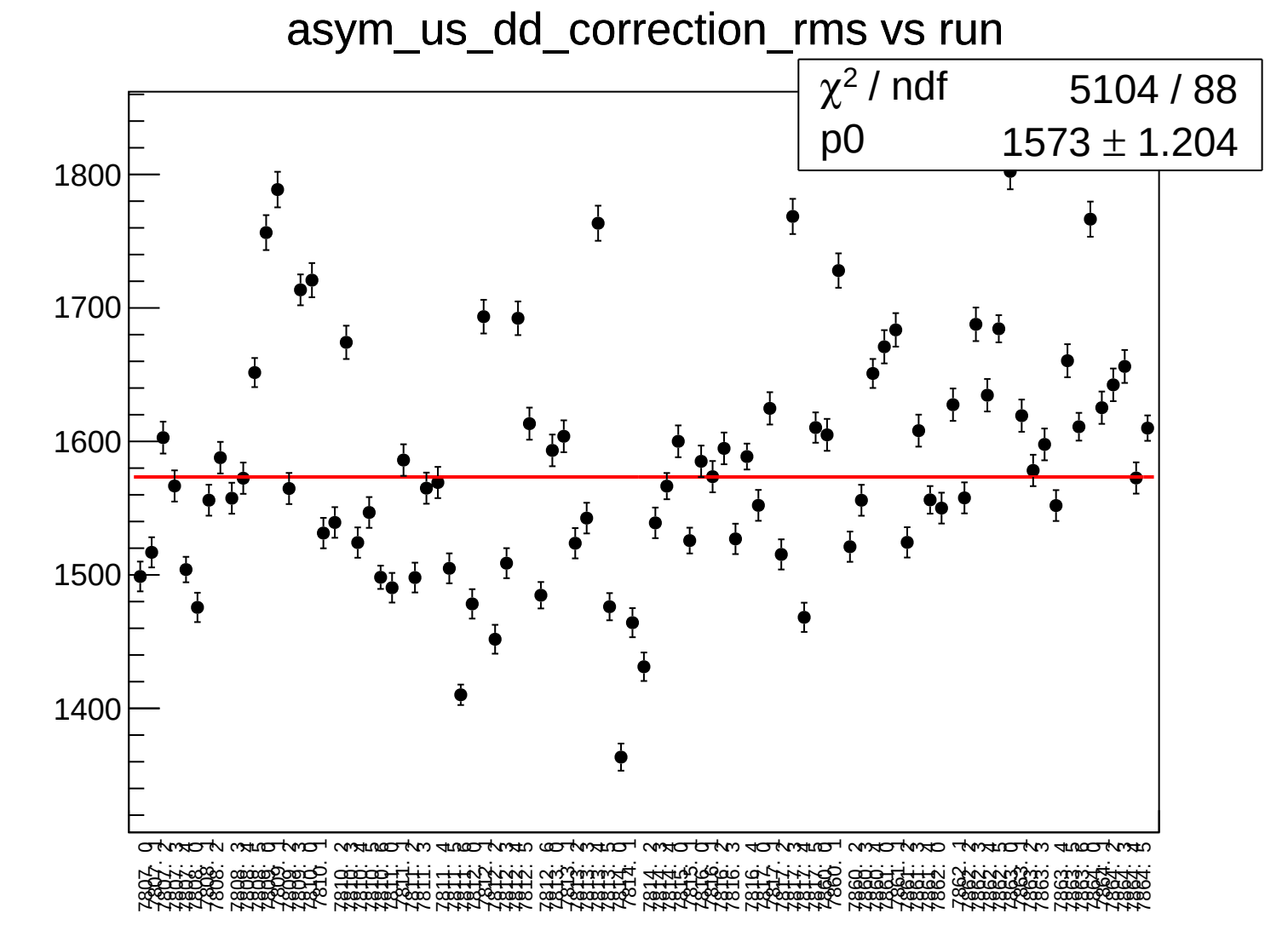

reg_asym_us_dd_mean vs run
χ² / ndf 84.51 / 88
p0 −1039 ± 827.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1545
Std Dev 1588
2
1
0
−1
−2

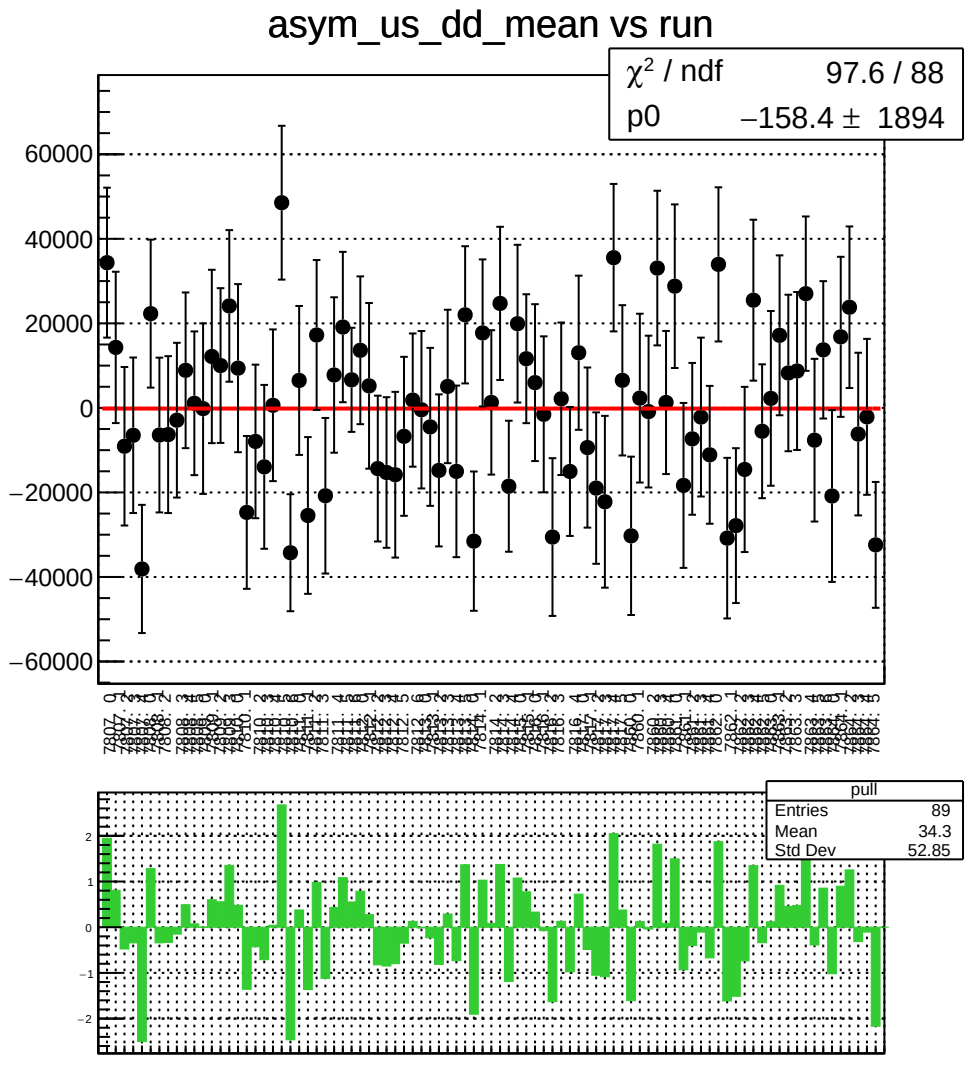

pull1D
Entries 89
Mean 0.001209
Std Dev 0.9745
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

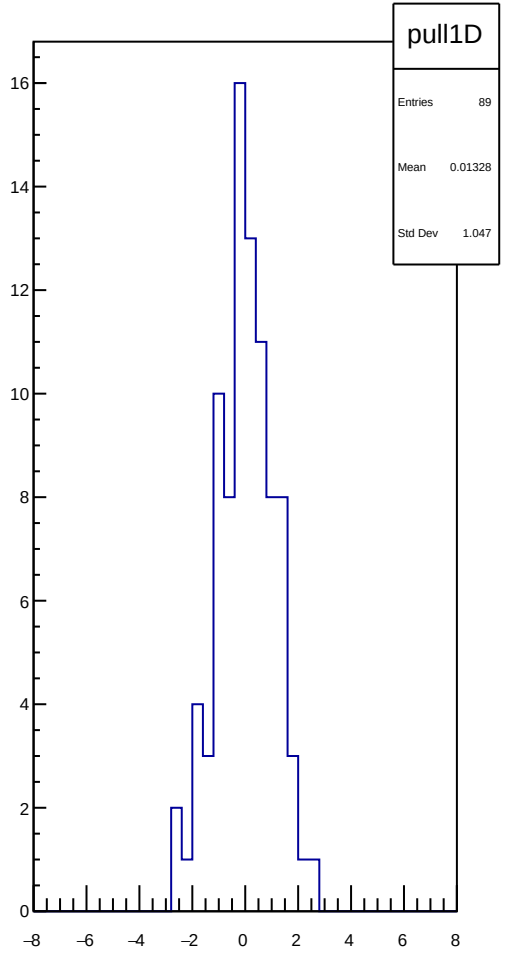

reg_asym_us_dd_rms vs run
χ² / ndf 82.59 / 88
p0 765.7 ± 0.585
785
780
775
770
765
760
755
750
745

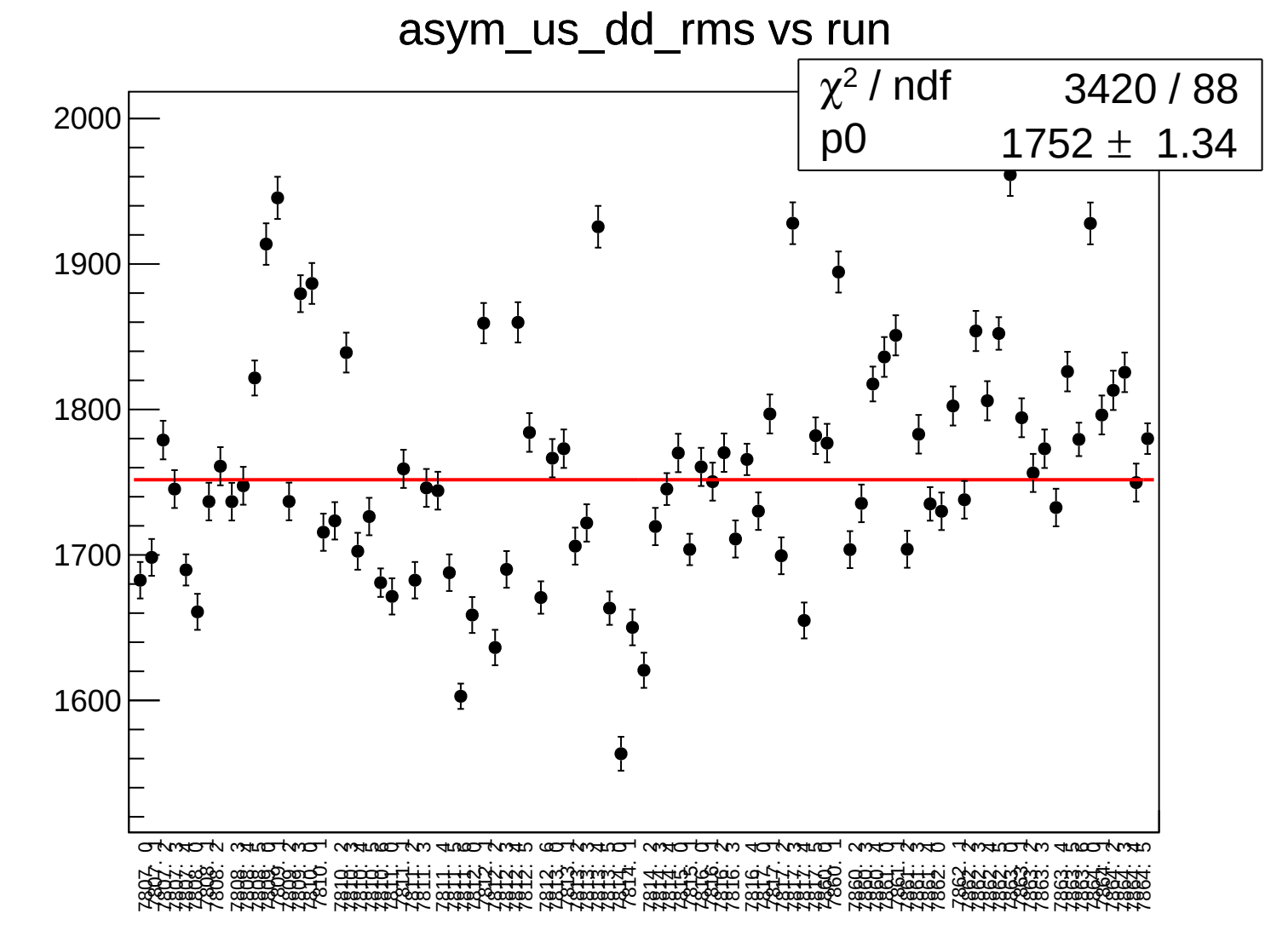

asym_us_dd_correction_mean vs run
χ² / ndf 94.35 / 88
p0 −779.9 ± 1702
pull
Entries 89
Mean 91.37
Std Dev 13.83

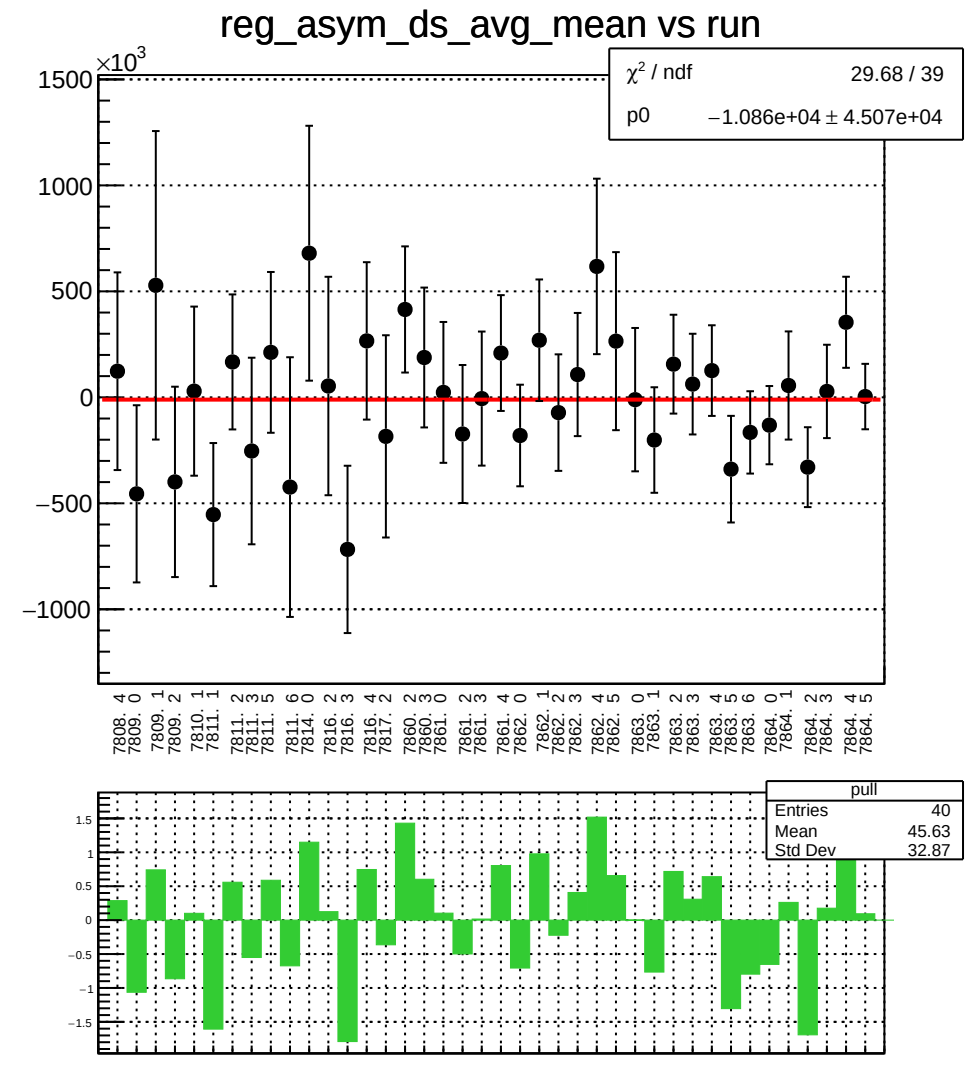

pull1D
Entries 89
Mean −0.01704
Std Dev 1.029

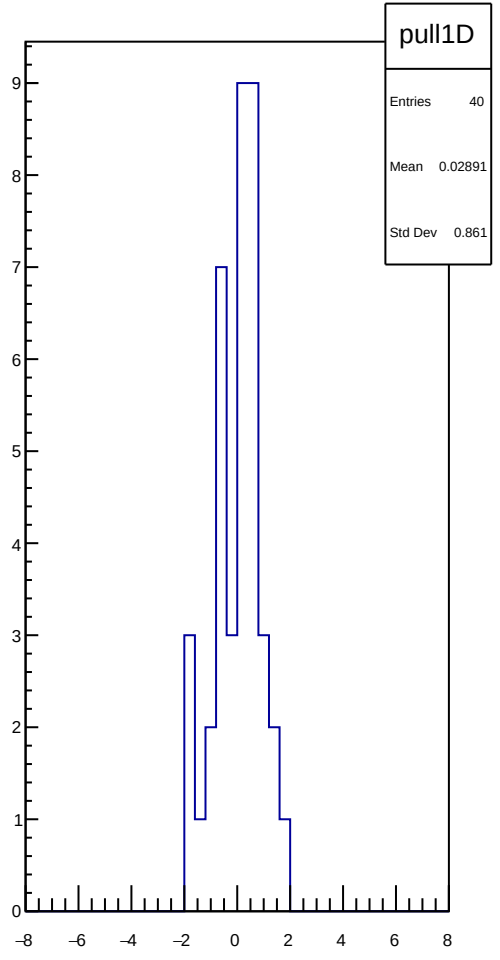

asym_us_dd_correction_rms vs run
χ² / ndf 5104 / 88
p0 1573 ± 1.204
1800
1700
1600
1500
1400

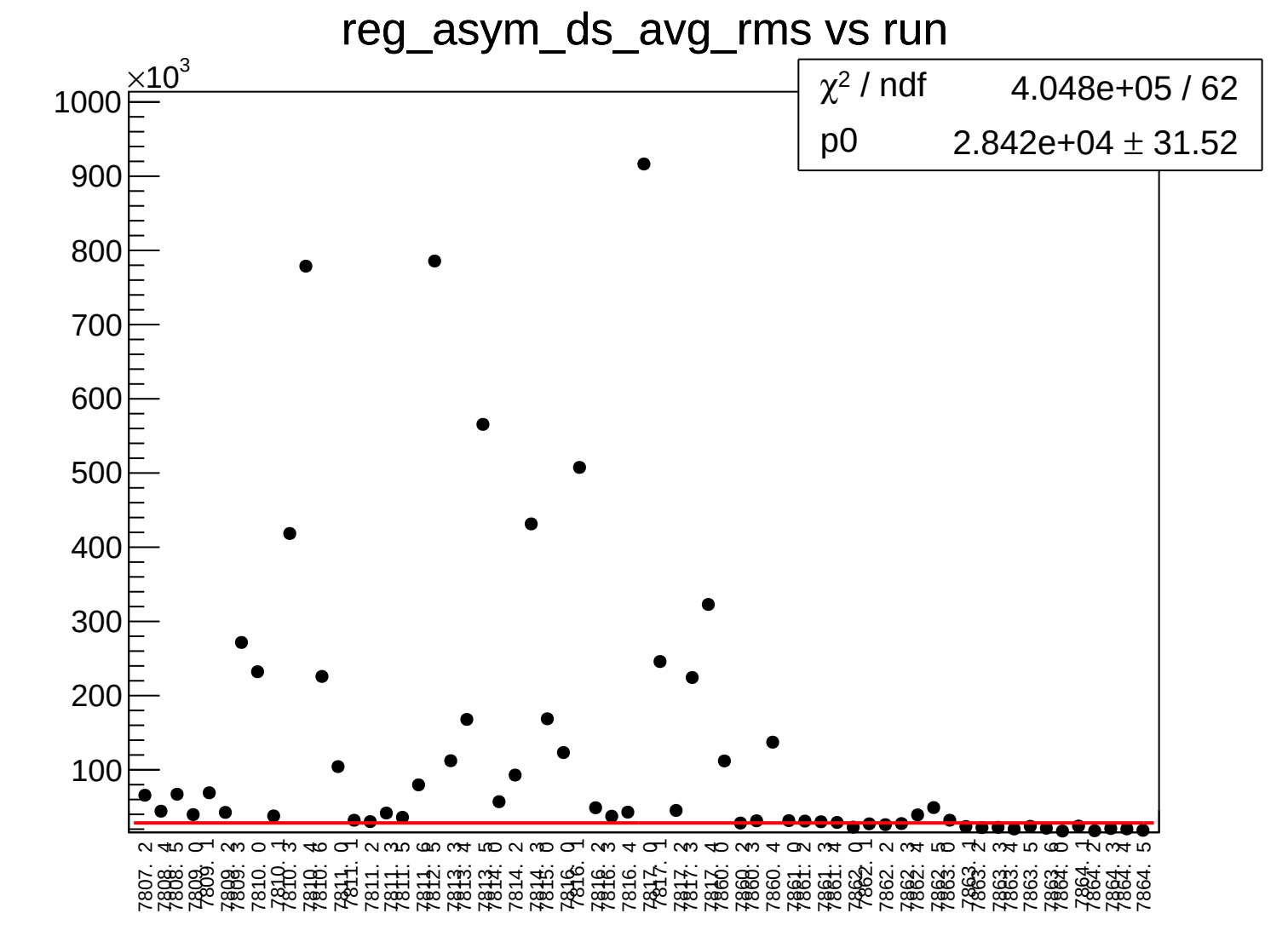

asym_us_dd_mean vs run
χ² / ndf 97.6 / 88
p0 −158.4 ± 1894
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 34.3
Std Dev 52.85
2
1
0
−1
−2

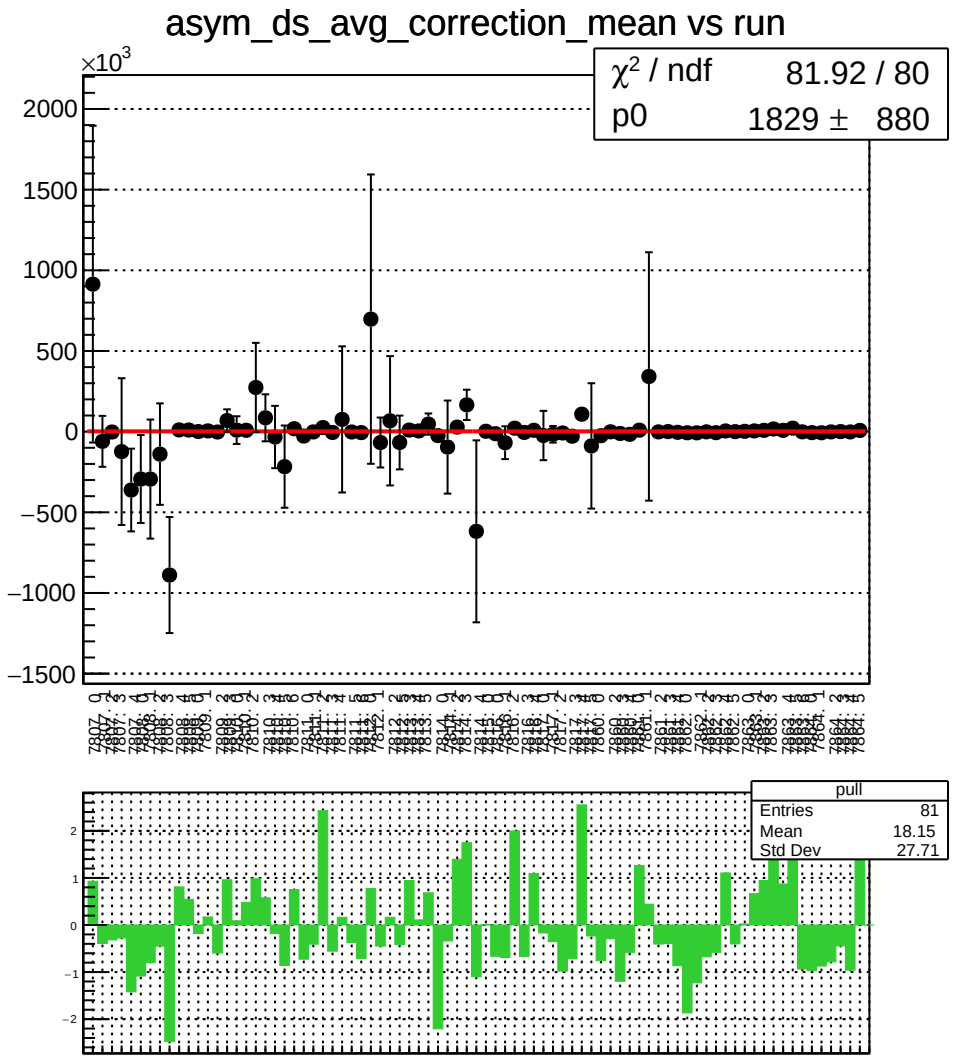

pull1D
Entries 89
Mean 0.01328
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

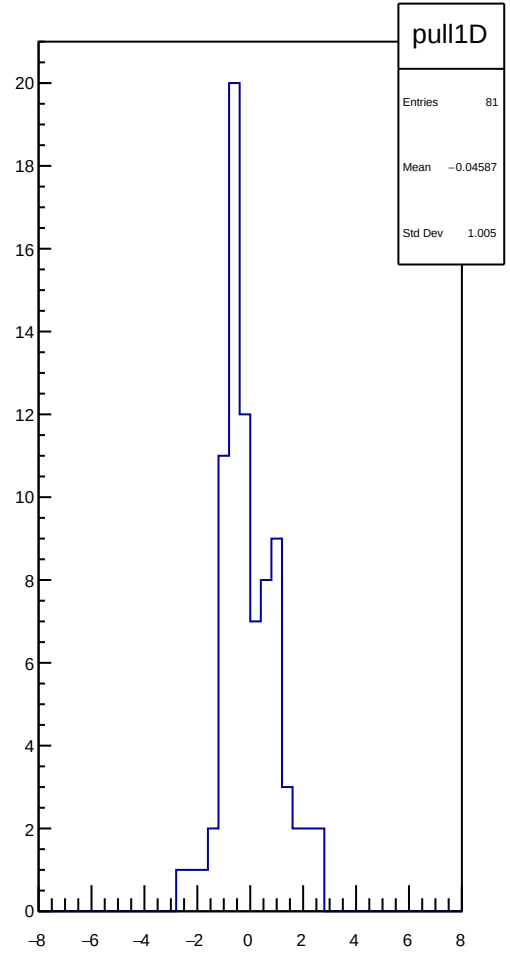

asym_us_dd_rms vs run
χ² / ndf 3420 / 88
p0 1752 ± 1.34
2000
1900
1800
1700
1600

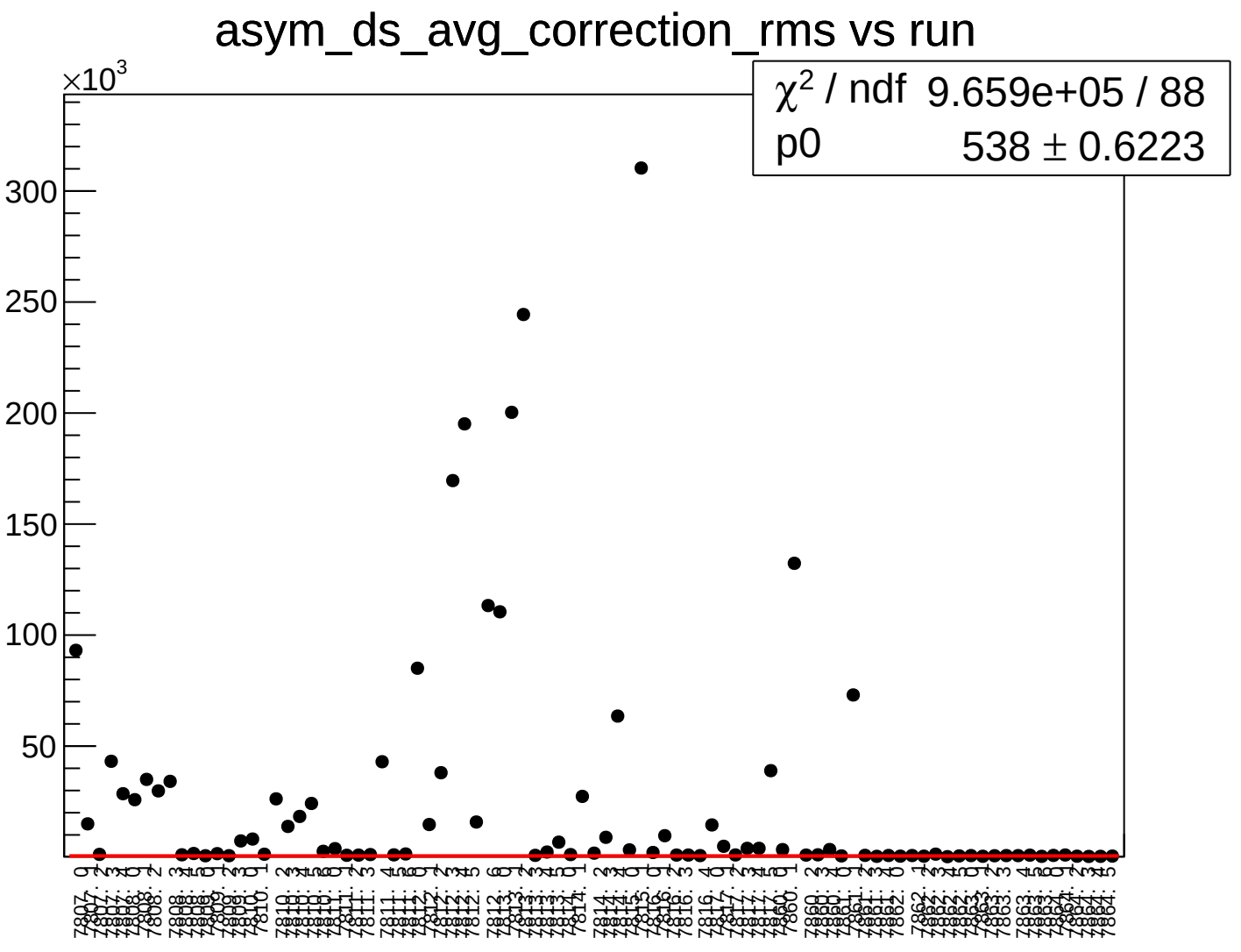

reg_asym_ds_avg_mean vs run
×10^3
χ² / ndf 29.68 / 39
p0 −1.086e+04 ± 4.507e+04
pull
Entries 40
Mean 45.63
Std Dev 32.87

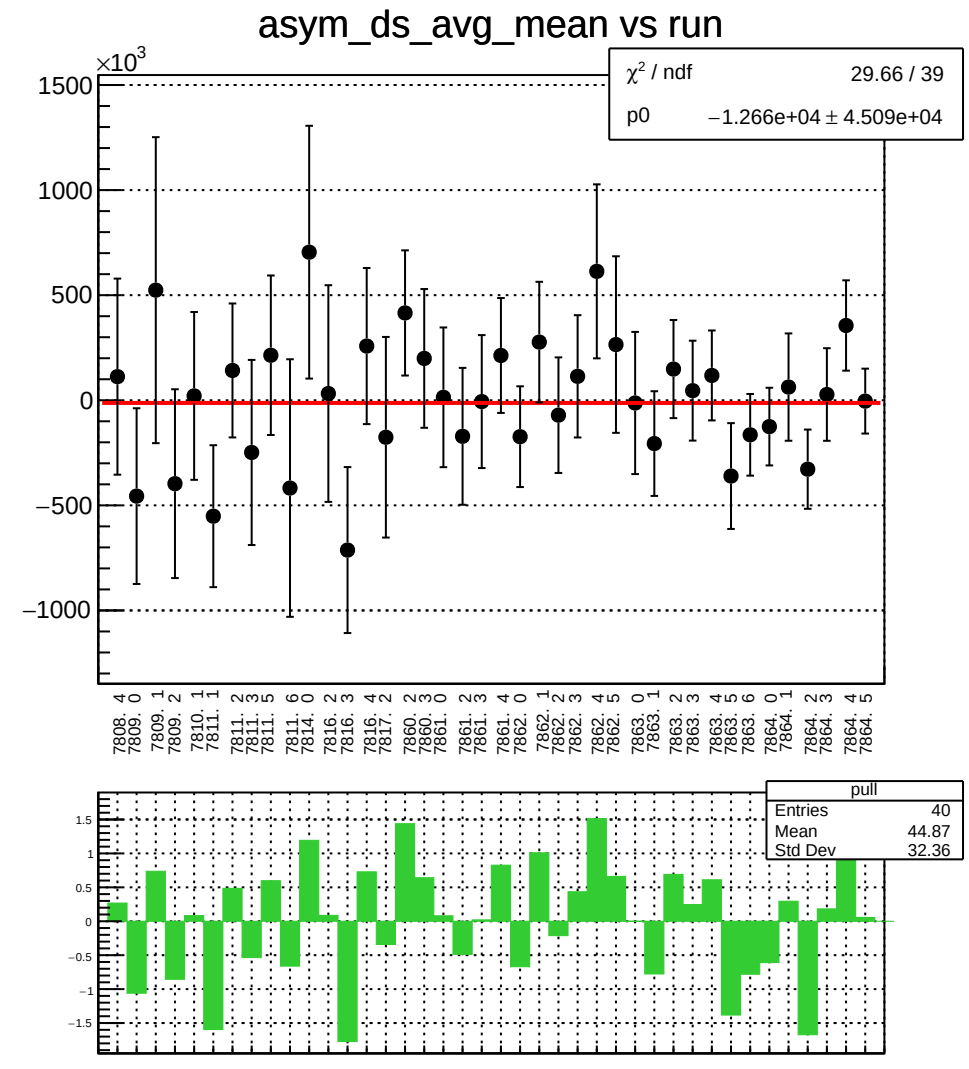

pull1D
Entries 40
Mean 0.02891
Std Dev 0.861

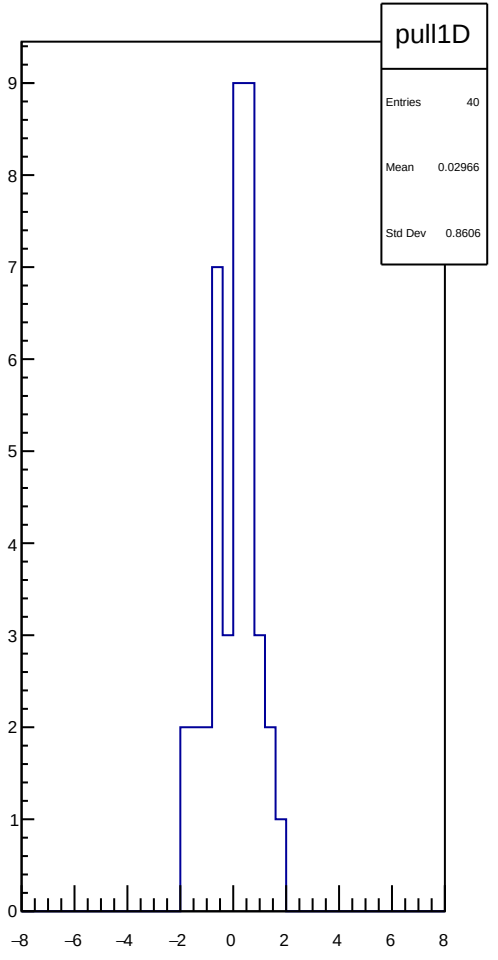

reg_asym_ds_avg_rms vs run
×10^3
1000
900
800
700
600
500
400
300
200
100
χ² / ndf 4.048e+05 / 62
p0 2.842e+04 ± 31.52

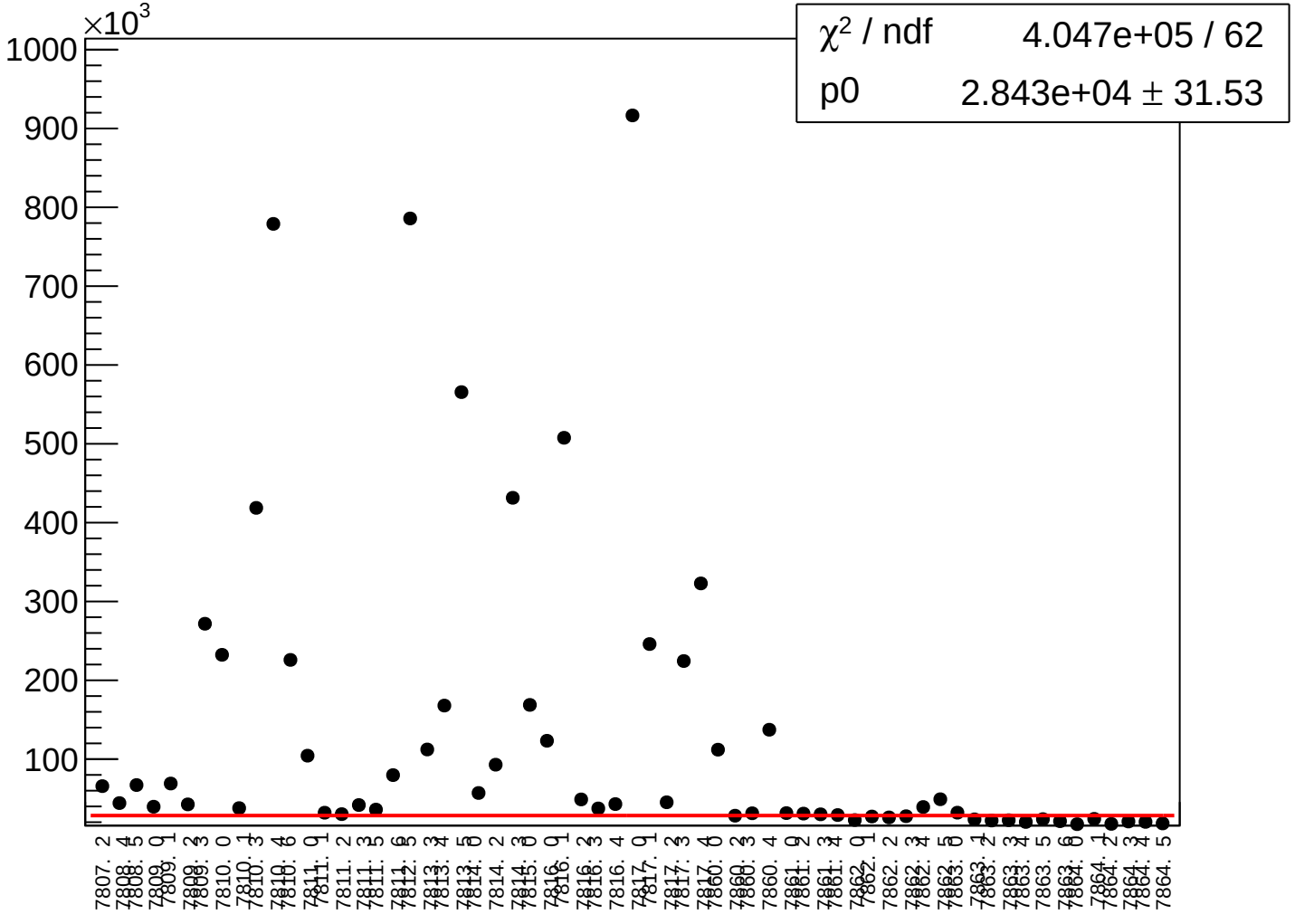

asym_ds_avg_correction_mean vs run
χ² / ndf 81.92 / 80
p0 1829 ± 880
×10³
pull
Entries 81
Mean 18.15
Std Dev 27.71

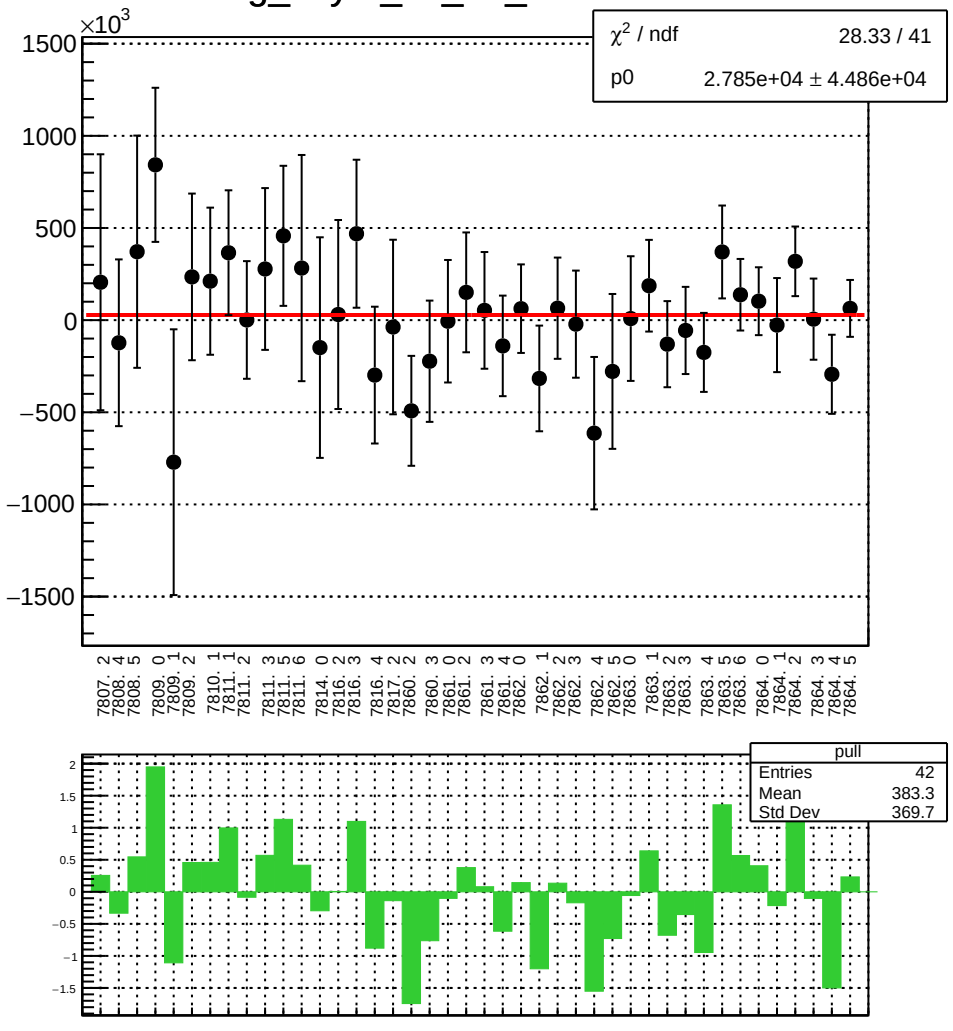

pull1D
Entries 81
Mean −0.04587
Std Dev 1.005

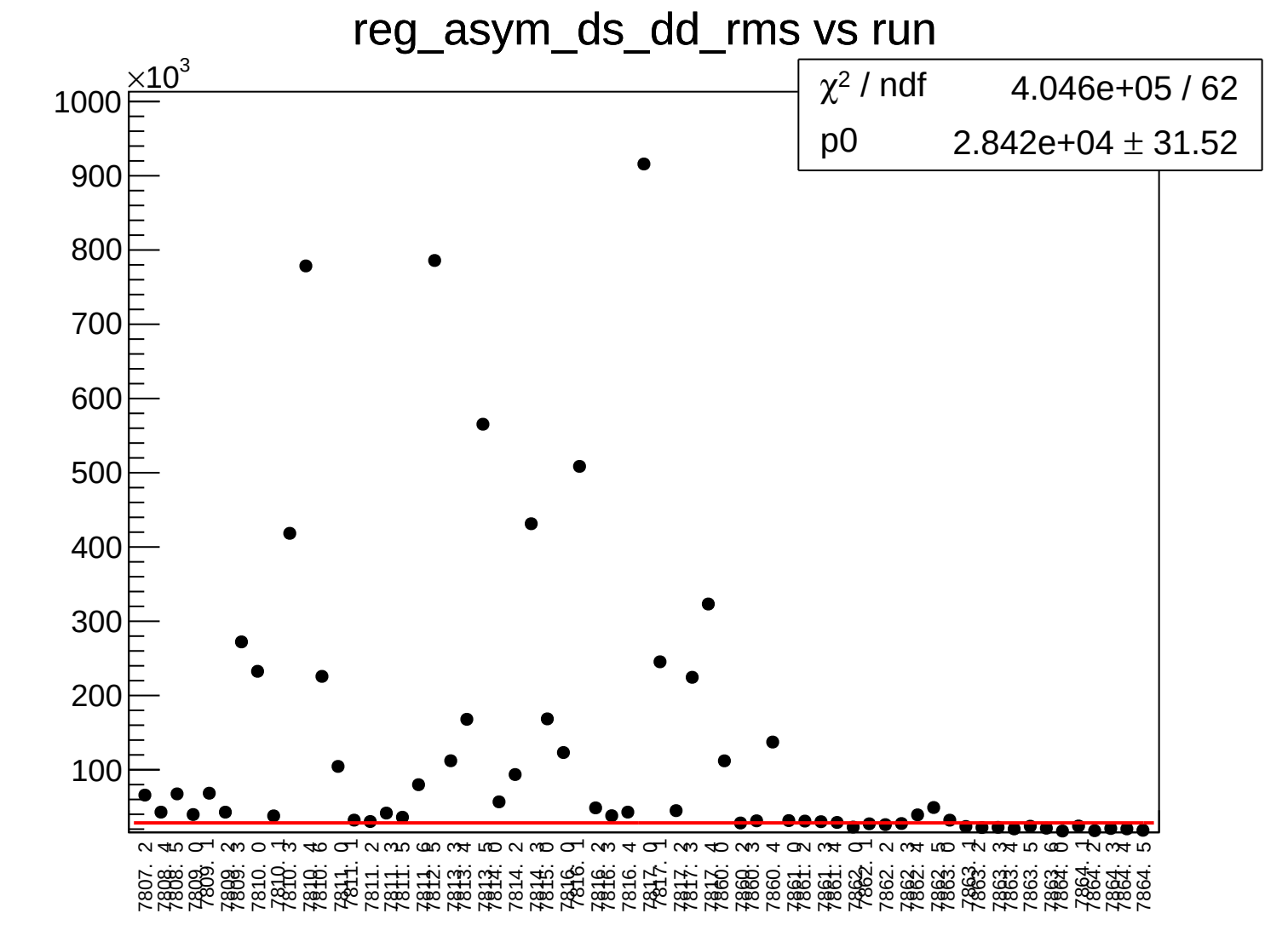

asym_ds_avg_correction_rms vs run
×10^3
χ^2 / ndf 9.659e+05 / 88
p0 538 ± 0.6223
300
250
200
150
100
50

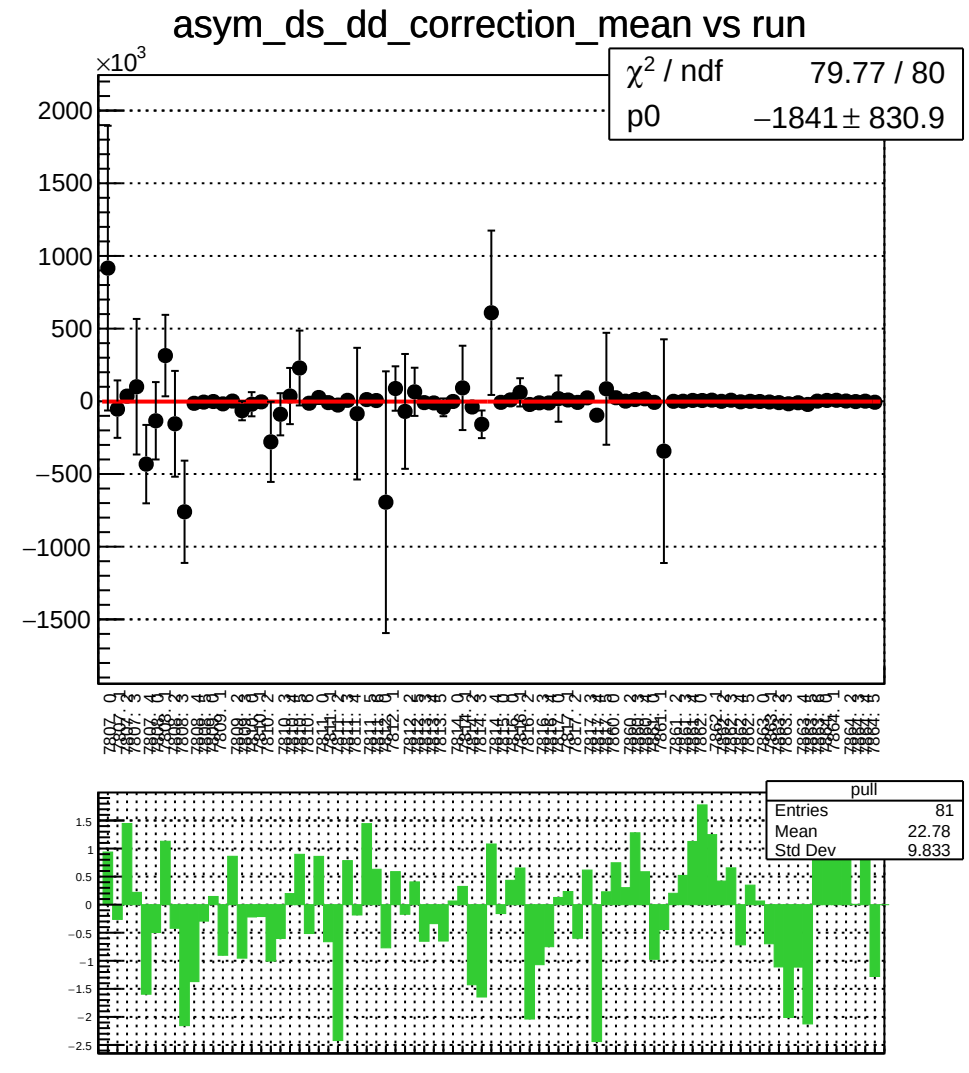

asym_ds_avg_mean vs run
×10^3
χ² / ndf 29.66 / 39
p0 −1.266e+04 ± 4.509e+04
1500
1000
500
0
−500
−1000
7808. 4
7809. 0
7809. 1
7809. 2
7810. 1
7811. 1
7811. 2
7811. 3
7811. 5
7811. 6
7814. 0
7816. 2
7816. 3
7816. 4
7817. 2
7860. 2
7860. 3
7861. 0
7861. 2
7861. 3
7861. 4
7862. 0
7862. 1
7862. 2
7862. 3
7862. 4
7862. 5
7863. 0
7863. 1
7863. 2
7863. 3
7863. 4
7863. 5
7863. 6
7864. 0
7864. 1
7864. 2
7864. 3
7864. 4
7864. 5
pull
Entries 40
Mean 44.87
Std Dev 32.36
1.5
1
0.5
0
−0.5
−1
−1.5

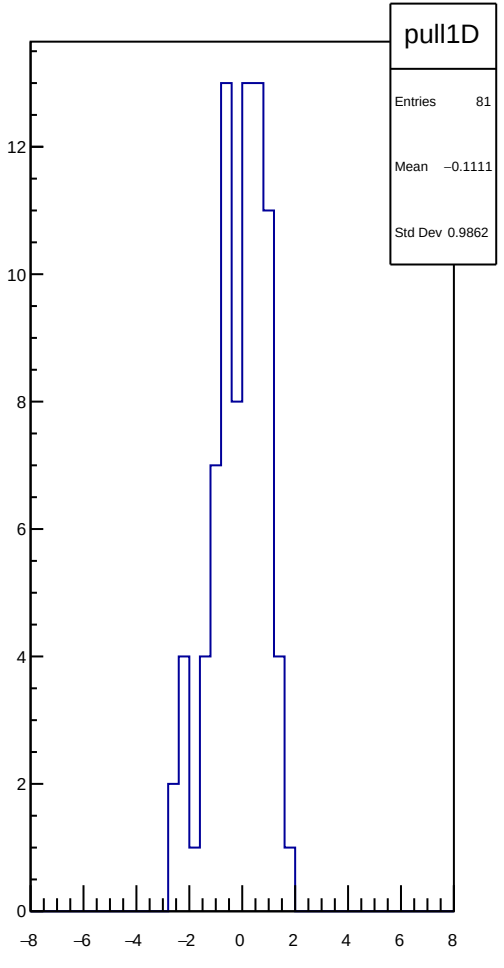

pull1D
Entries 40
Mean 0.02966
Std Dev 0.8606
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

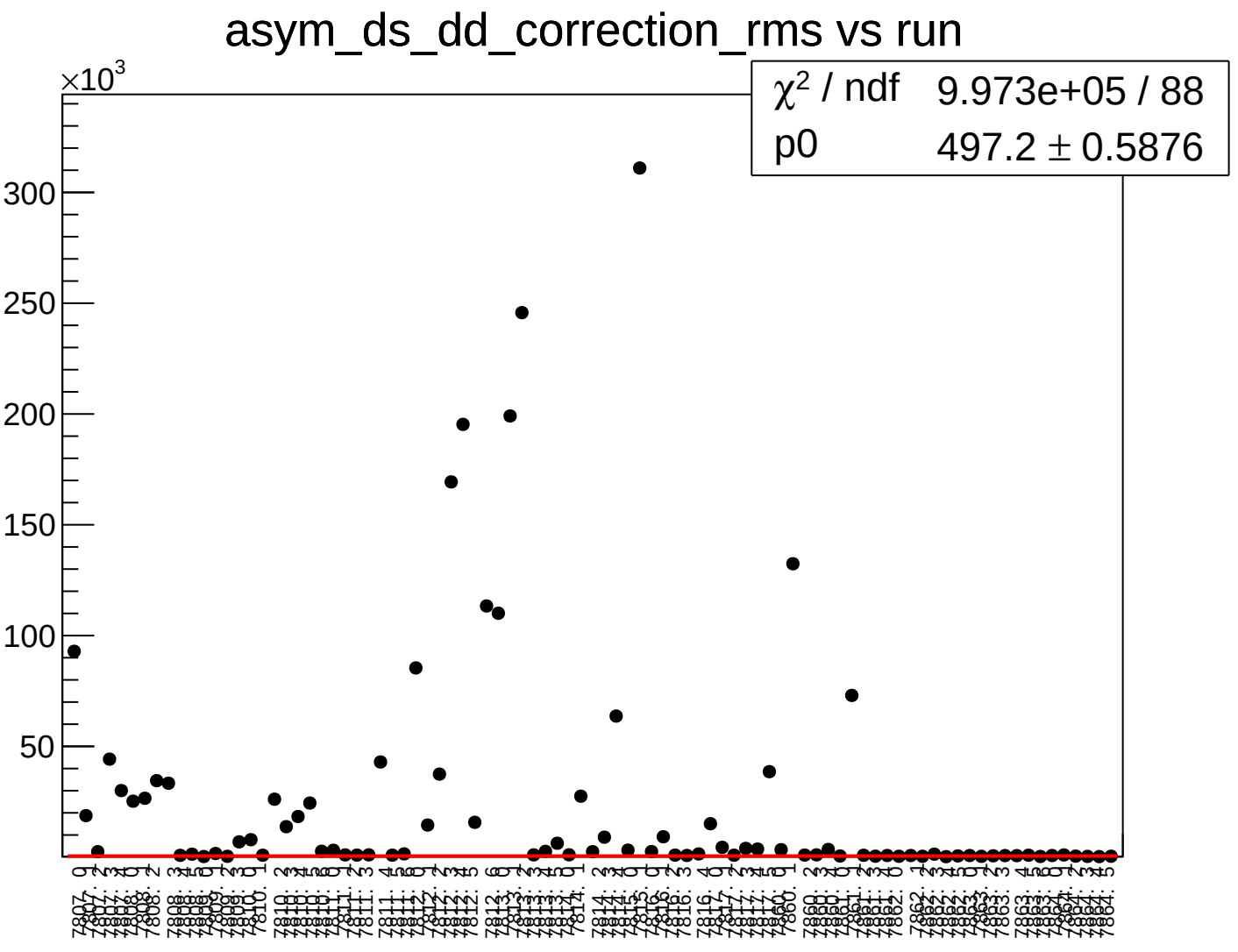

asym_ds_avg_rms vs run
×10^3
1000
900
800
700
600
500
400
300
200
100
χ² / ndf 4.047e+05 / 62
p0 2.843e+04 ± 31.53

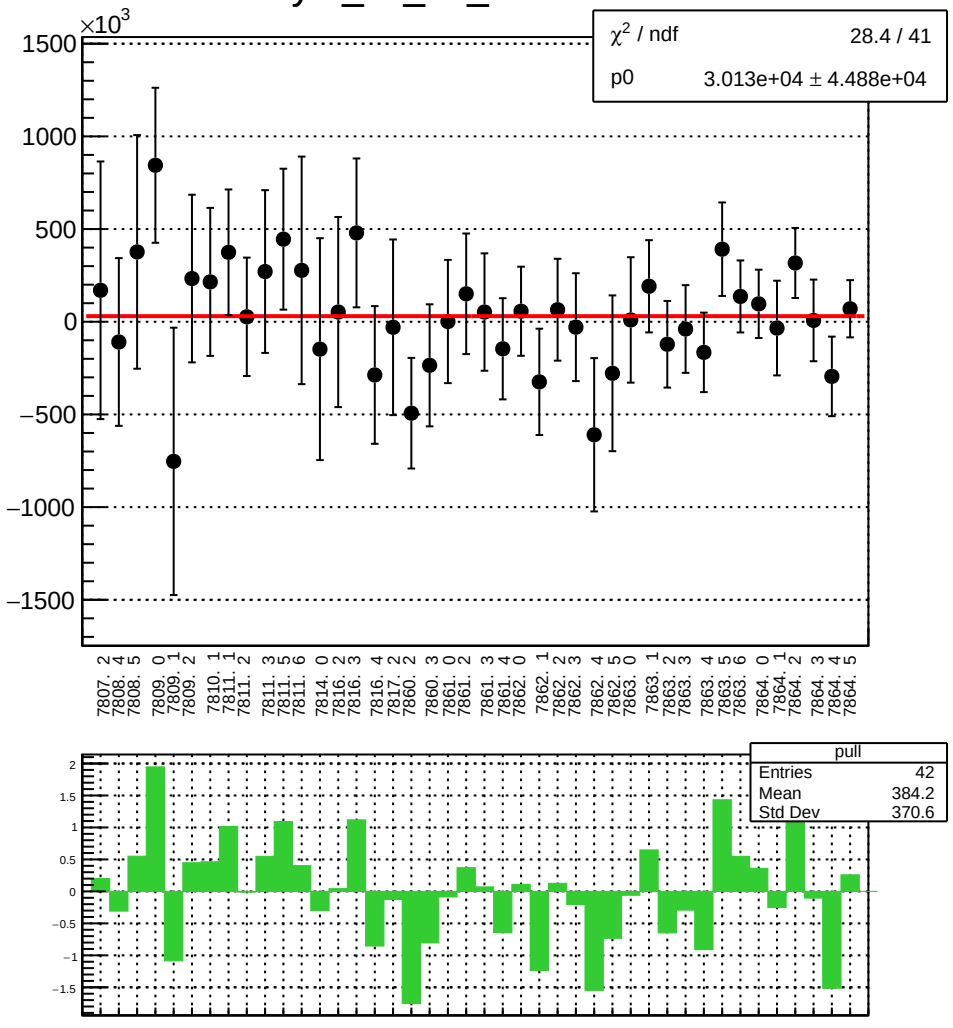

reg_asym_ds_dd_mean vs run
×10^3
χ² / ndf 28.33 / 41
p0 2.785e+04 ± 4.486e+04
1500
1000
500
0
−500
−1000
−1500
7807. 2
7808. 4
7808. 5
7809. 0
7809. 1
7809. 2
7810. 1
7811. 1
7811. 2
7811. 3
7811. 5
7811. 6
7814. 0
7816. 2
7816. 3
7816. 4
7817. 2
7860. 3
7861. 0
7861. 2
7861. 3
7861. 4
7862. 0
7862. 1
7862. 2
7862. 3
7862. 4
7862. 5
7863. 0
7863. 1
7863. 2
7863. 3
7863. 4
7863. 5
7863. 6
7864. 0
7864. 1
7864. 2
7864. 3
7864. 4
7864. 5
pull
Entries 42
Mean 383.3
Std Dev 369.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.004766
Std Dev 0.8213
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

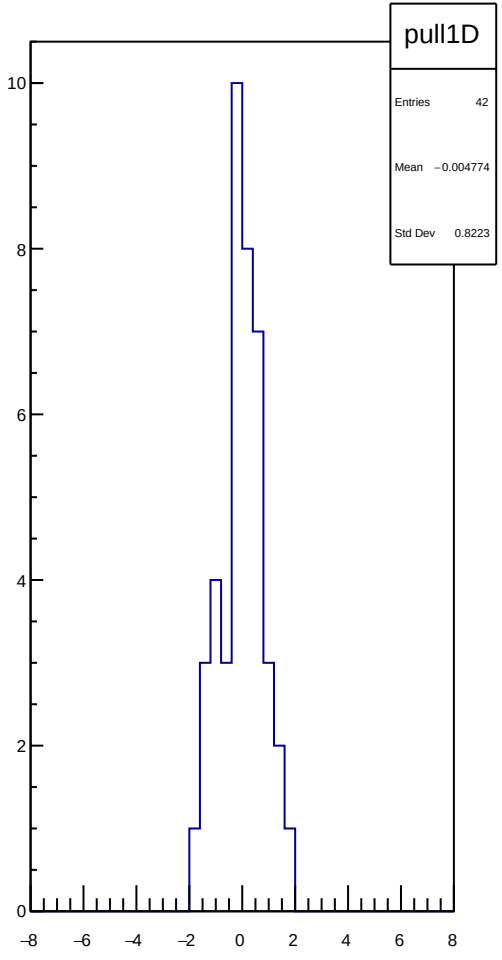

reg_asym_ds_dd_rms vs run
×10^3
1000
900
800
700
600
500
400
300
200
100
χ² / ndf 4.046e+05 / 62
p0 2.842e+04 ± 31.52

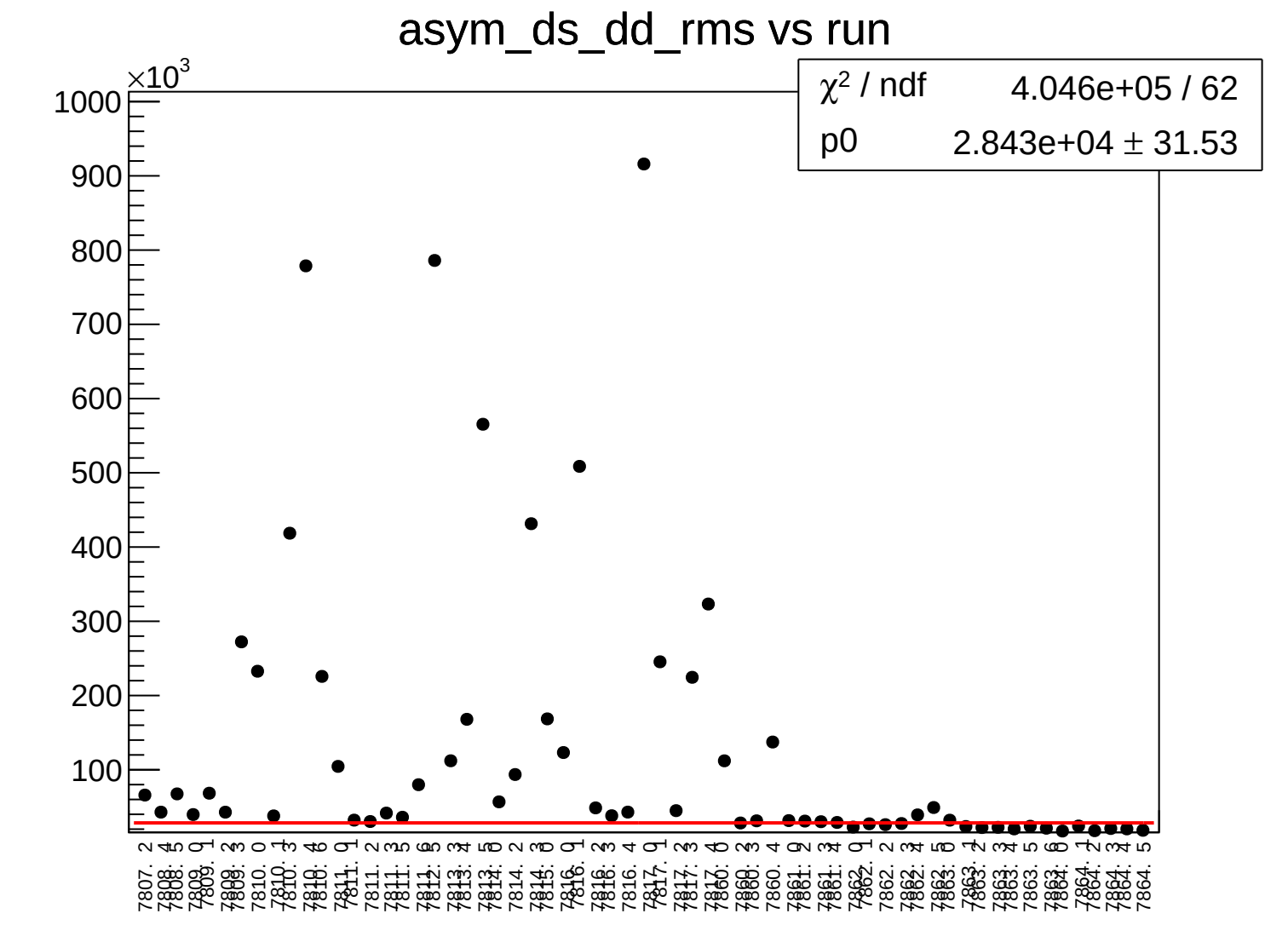

asym_ds_dd_correction_mean vs run
×10^3
χ² / ndf 79.77 / 80
p0 −1841 ± 830.9
pull
Entries 81
Mean 22.78
Std Dev 9.833

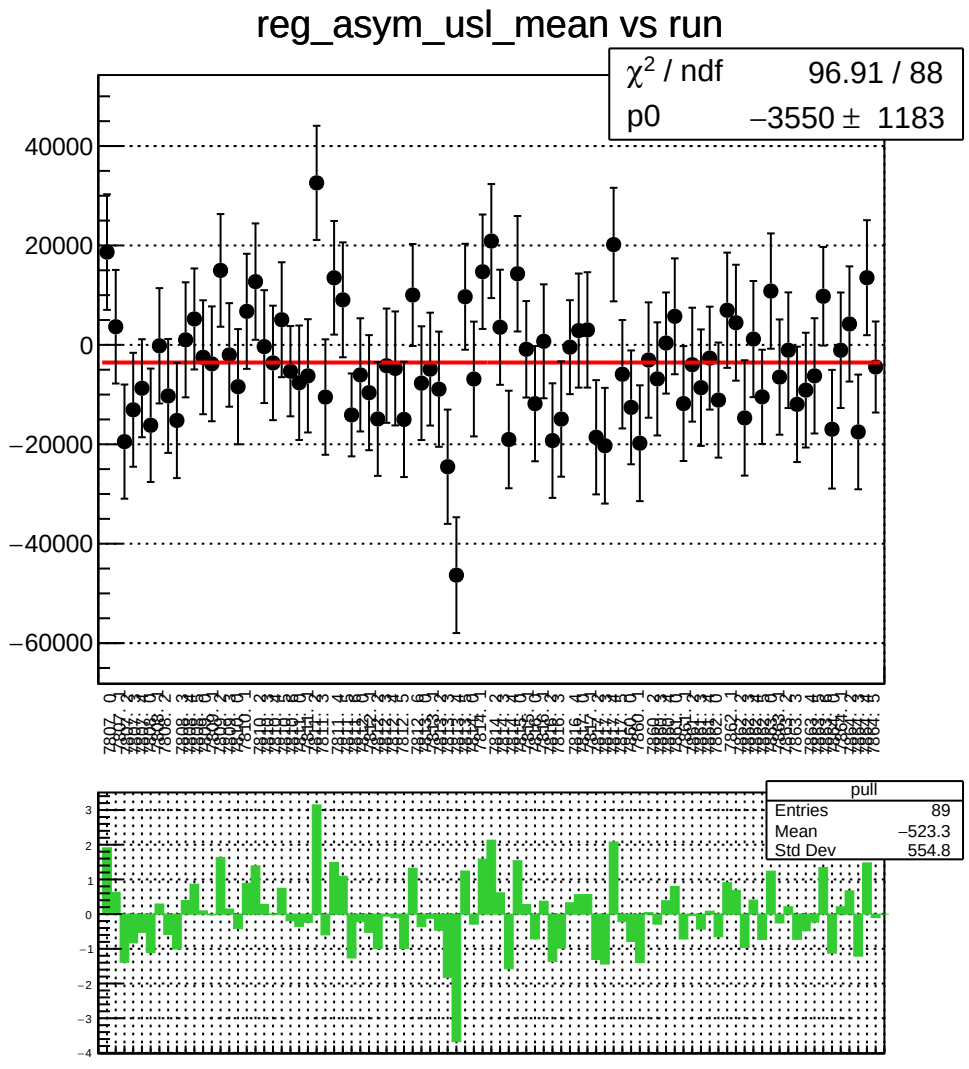

pull1D
Entries 81
Mean −0.1111
Std Dev 0.9862

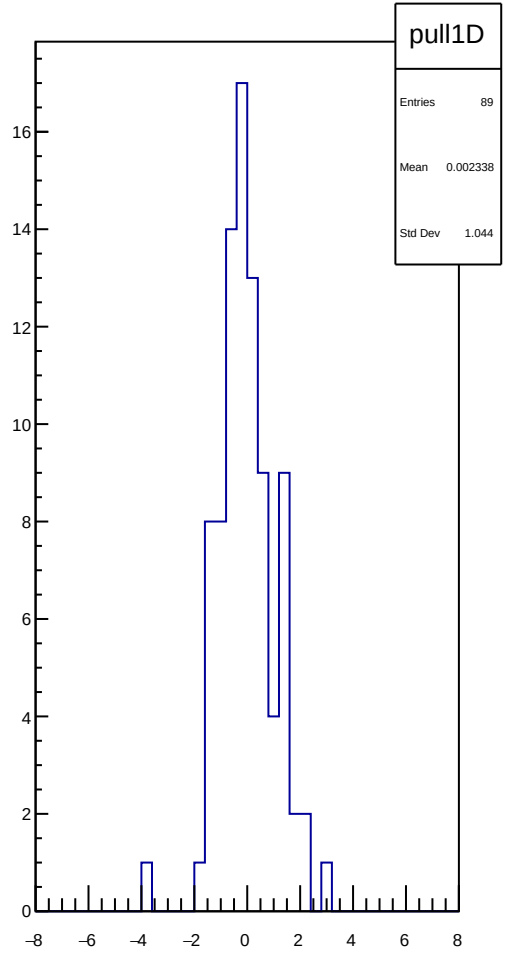

asym_ds_dd_correction_rms vs run
×10^3
χ² / ndf 9.973e+05 / 88
p0 497.2 ± 0.5876
300
250
200
150
100
50

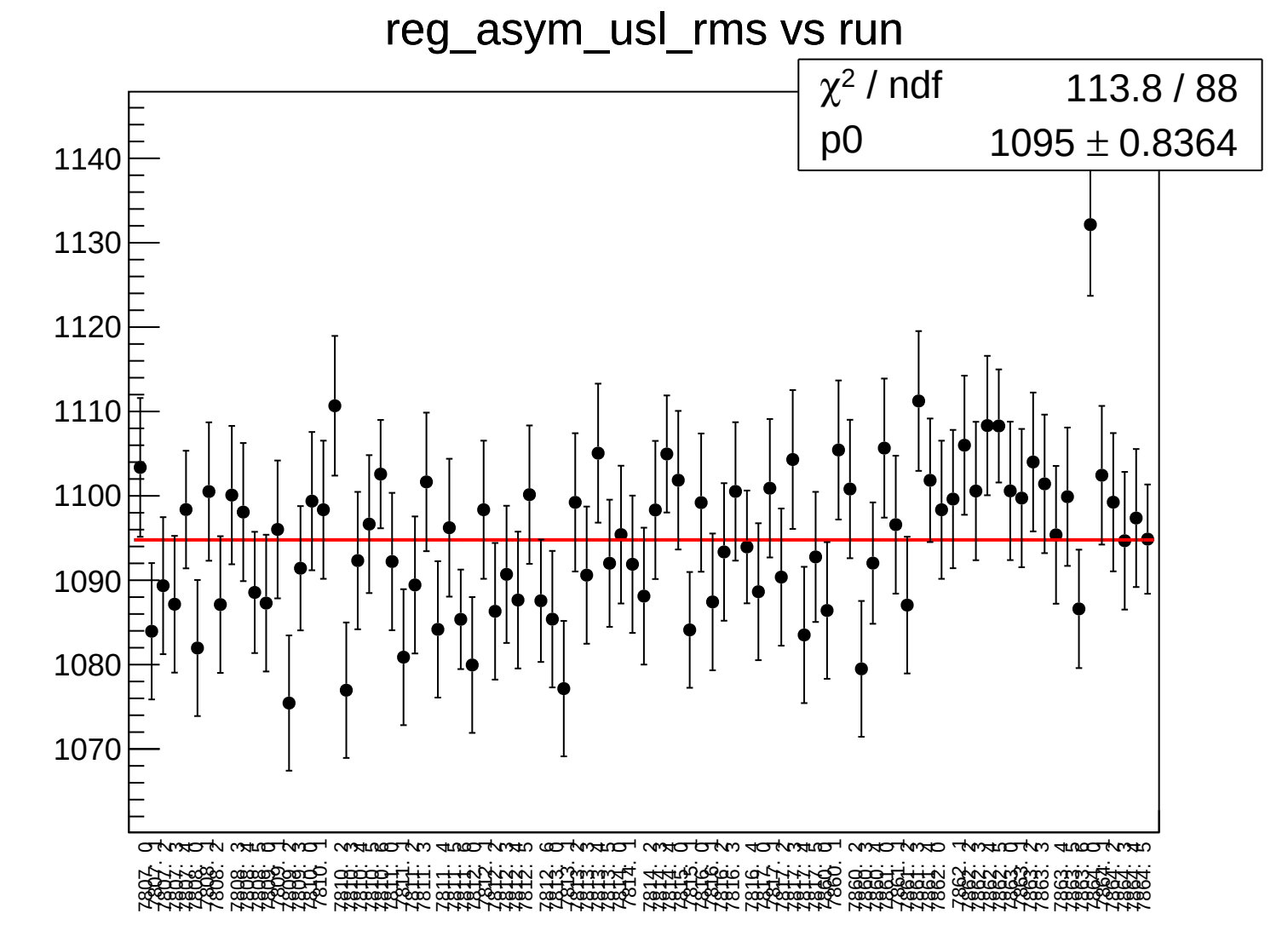

asym_ds_dd_mean vs run
×10^3
χ² / ndf 28.4 / 41
p0 3.013e+04 ± 4.488e+04
1500
1000
500
0
−500
−1000
−1500
7807. 2
7808. 4
7808. 5
7809. 0
7809. 1
7809. 2
7810. 1
7811. 1
7811. 2
7811. 3
7811. 5
7811. 6
7814. 0
7816. 2
7816. 3
7816. 4
7817. 2
7860. 2
7860. 3
7861. 0
7861. 2
7861. 3
7861. 4
7862. 0
7862. 1
7862. 2
7862. 3
7862. 4
7862. 5
7863. 0
7863. 1
7863. 2
7863. 3
7863. 4
7863. 5
7863. 6
7864. 0
7864. 1
7864. 2
7864. 3
7864. 4
7864. 5
pull
Entries 42
Mean 384.2
Std Dev 370.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

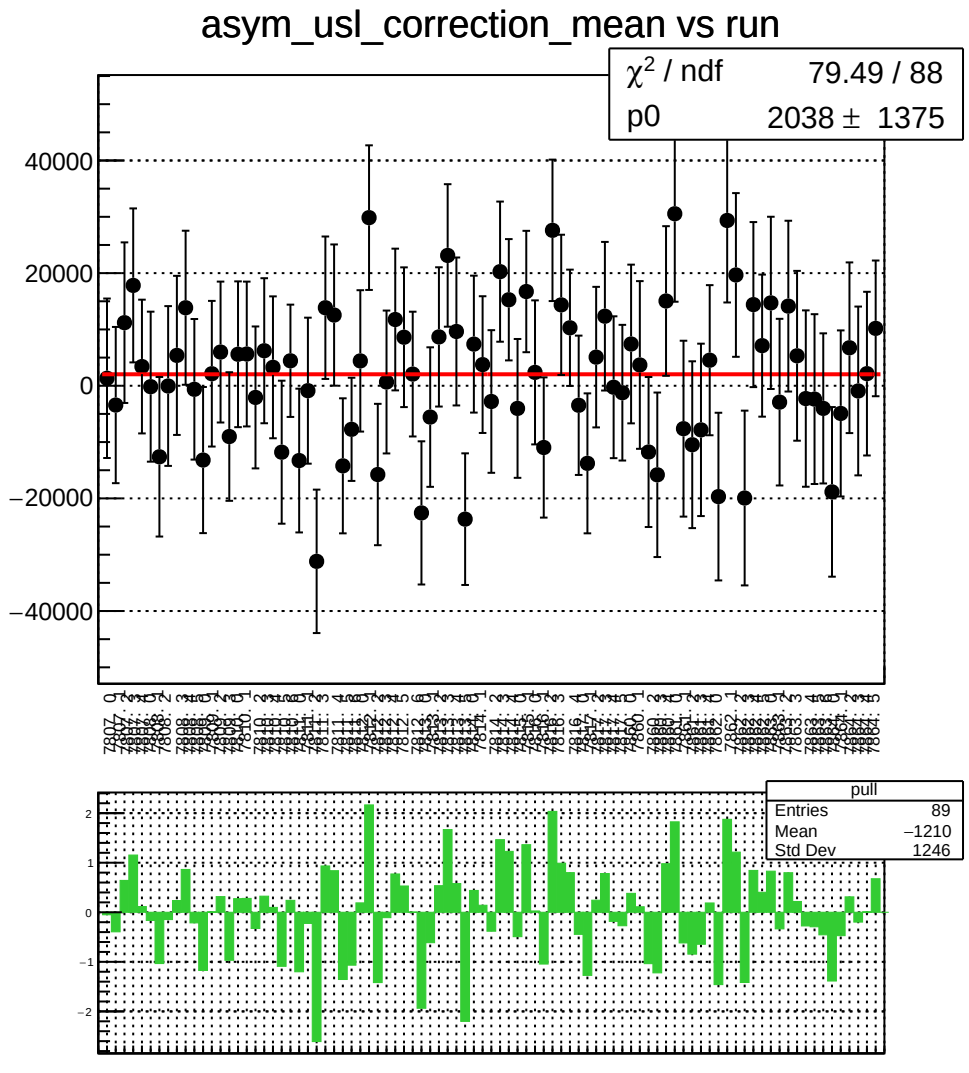

pull1D
Entries 42
Mean −0.004774
Std Dev 0.8223
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

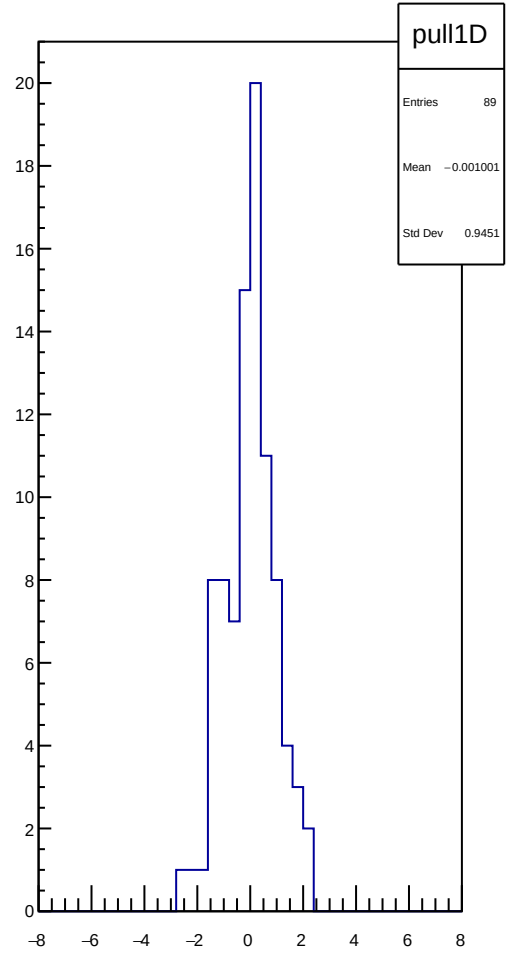

asym_ds_dd_rms vs run
×10^3
1000
900
800
700
600
500
400
300
200
100
χ² / ndf 4.046e+05 / 62
p0 2.843e+04 ± 31.53

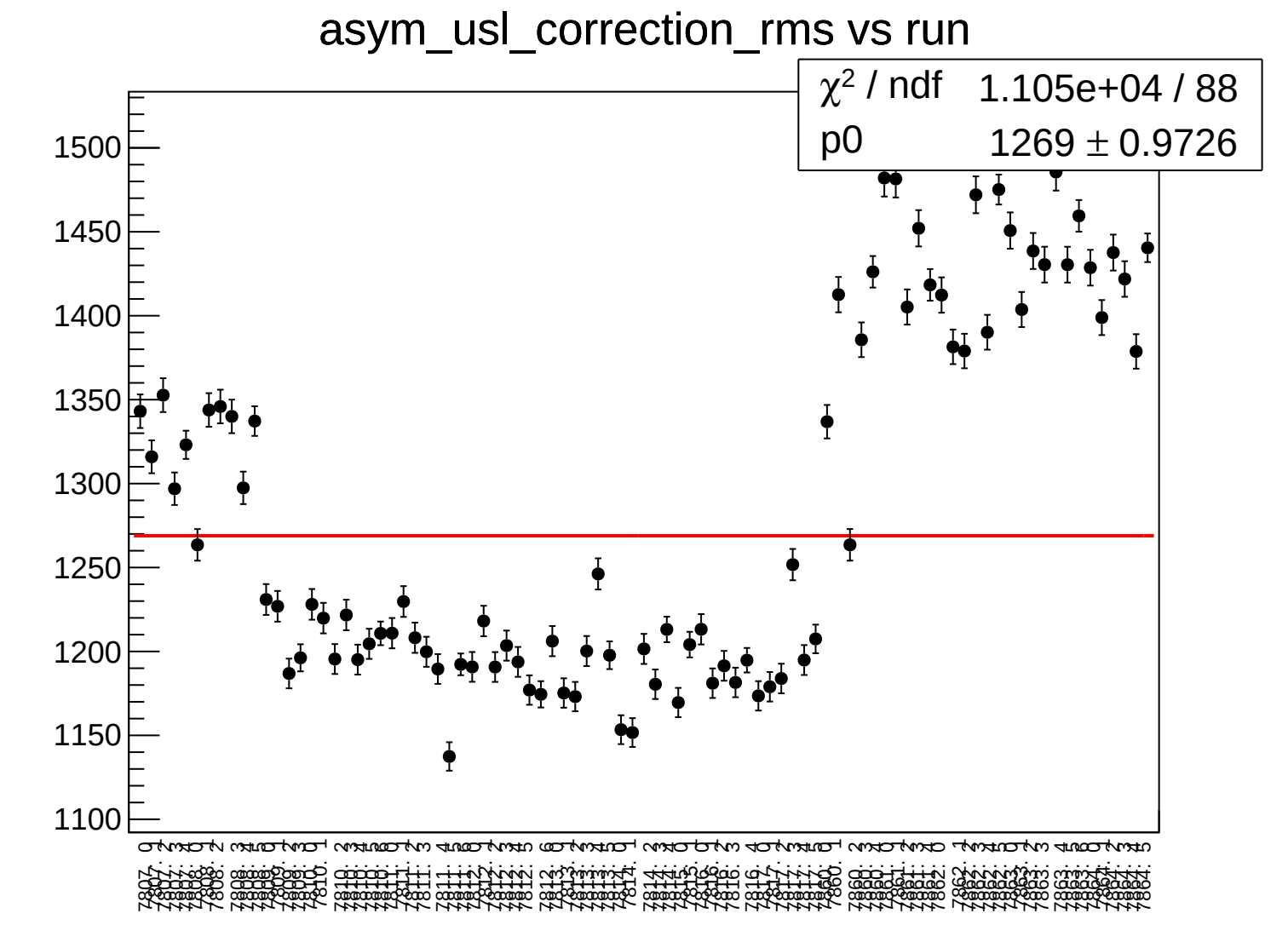

reg_asym_usl_mean vs run
χ^2 / ndf 96.91 / 88
p0 −3550 ± 1183
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −523.3
Std Dev 554.8
3
2
1
0
−1
−2
−3
−4

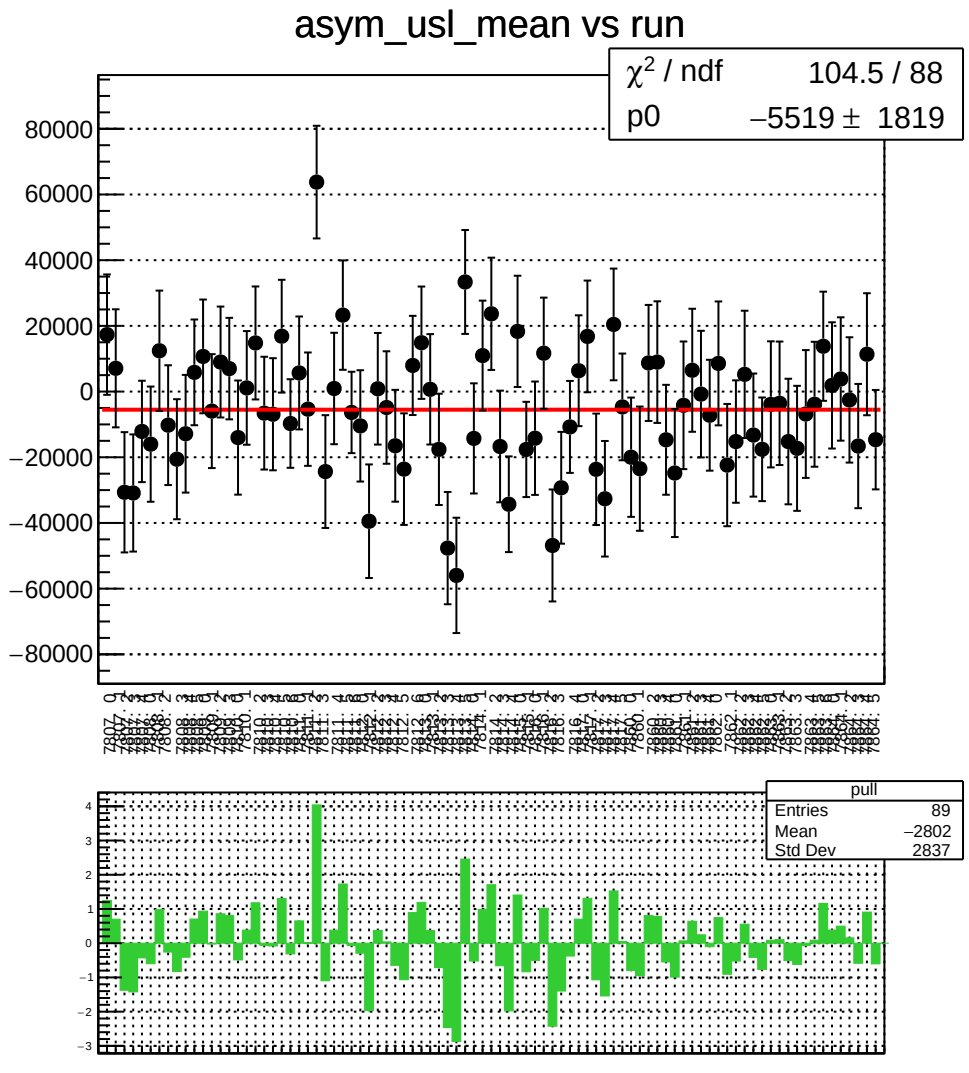

pull1D
Entries 89
Mean 0.002338
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

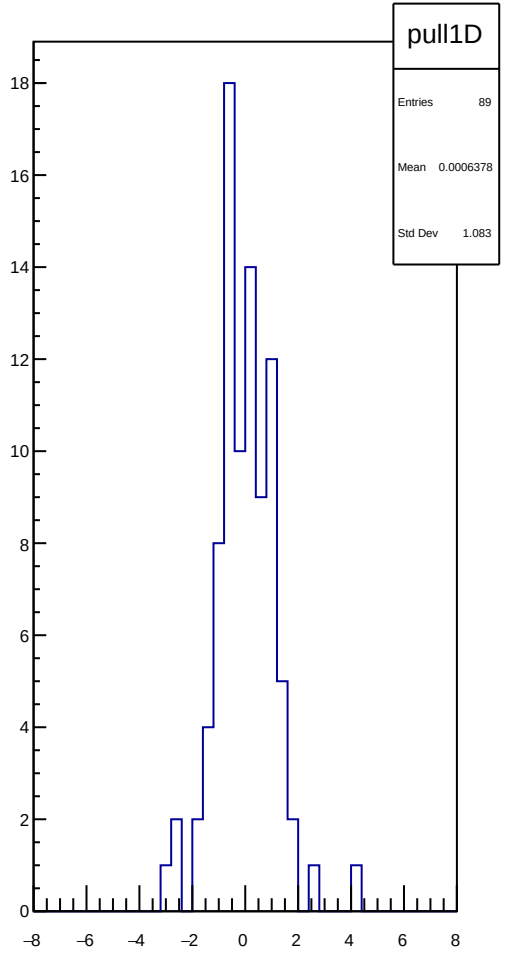

reg_asym_usl_rms vs run
χ² / ndf 113.8 / 88
p0 1095 ± 0.8364
1140
1130
1120
1110
1100
1090
1080
1070

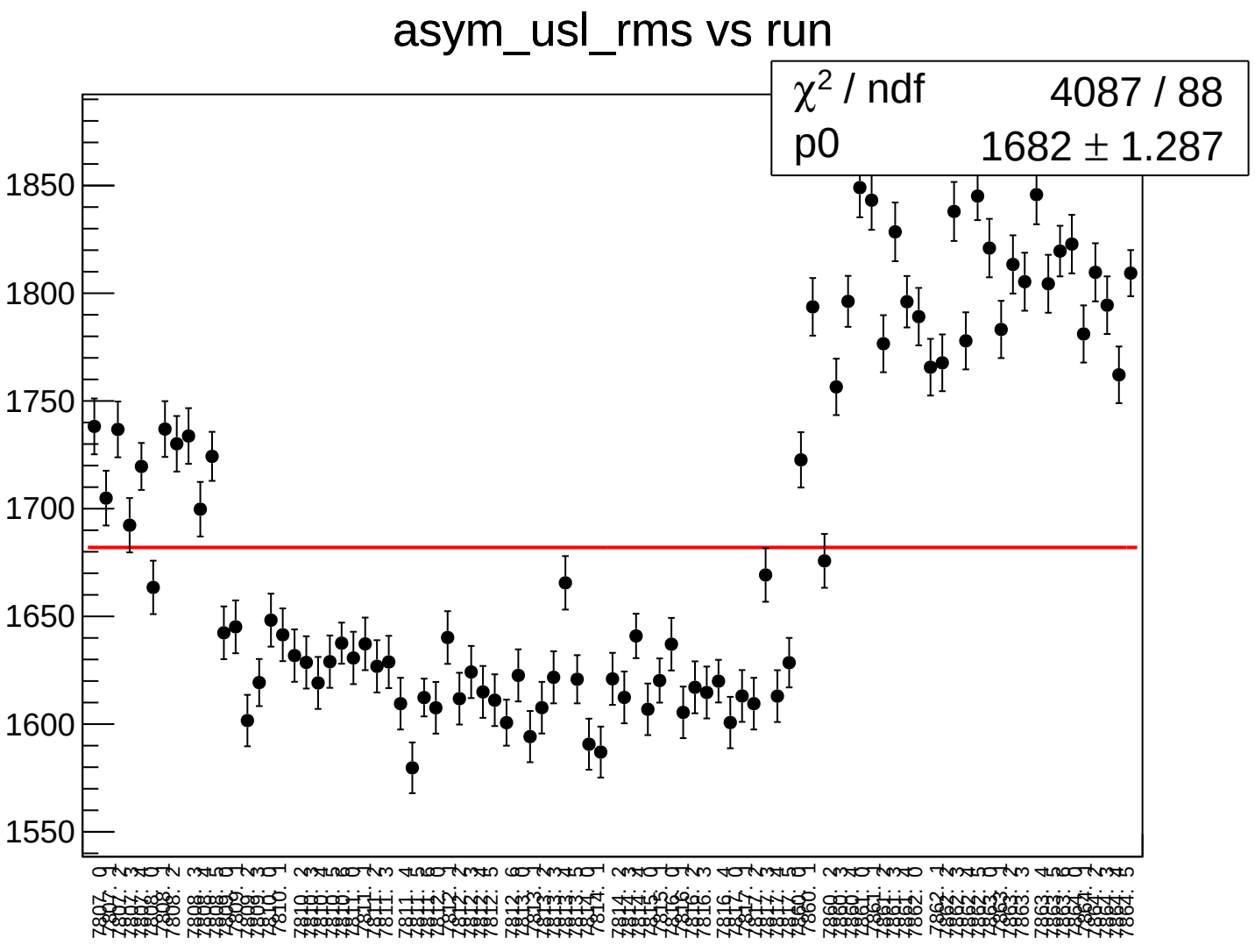

asym_usl_correction_mean vs run
χ² / ndf 79.49 / 88
p0 2038 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −1210
Std Dev 1246
2
1
0
−1
−2

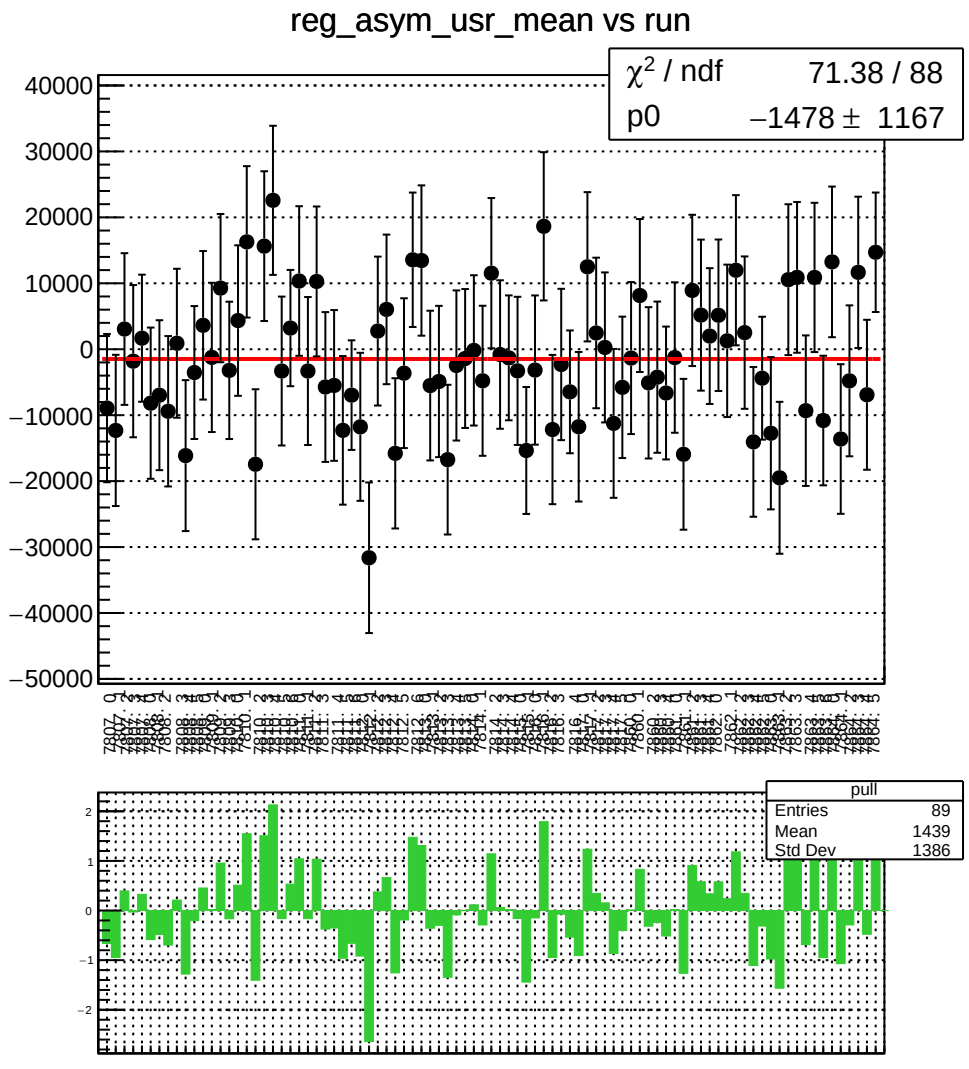

pull1D
Entries 89
Mean −0.001001
Std Dev 0.9451
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

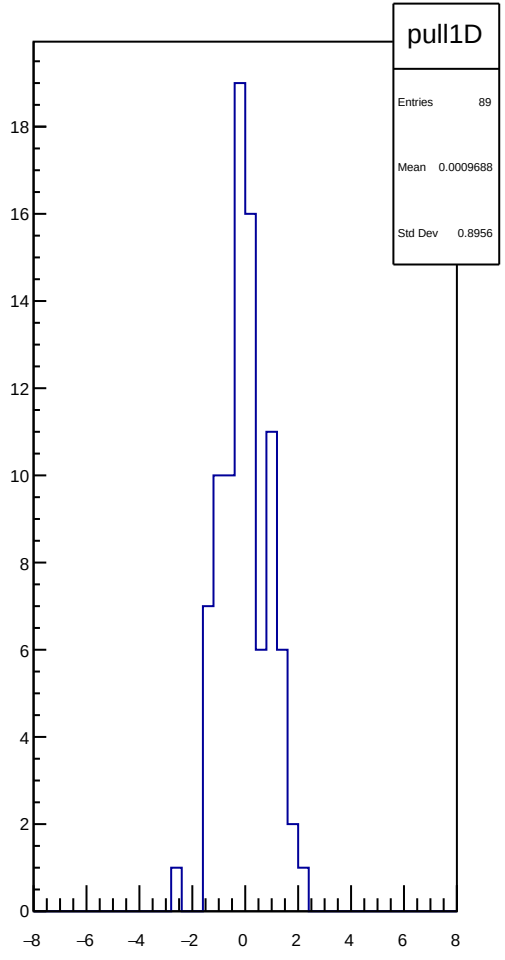

asym_usl_correction_rms vs run
χ² / ndf 1.105e+04 / 88
p0 1269 ± 0.9726
1500
1450
1400
1350
1300
1250
1200
1150
1100

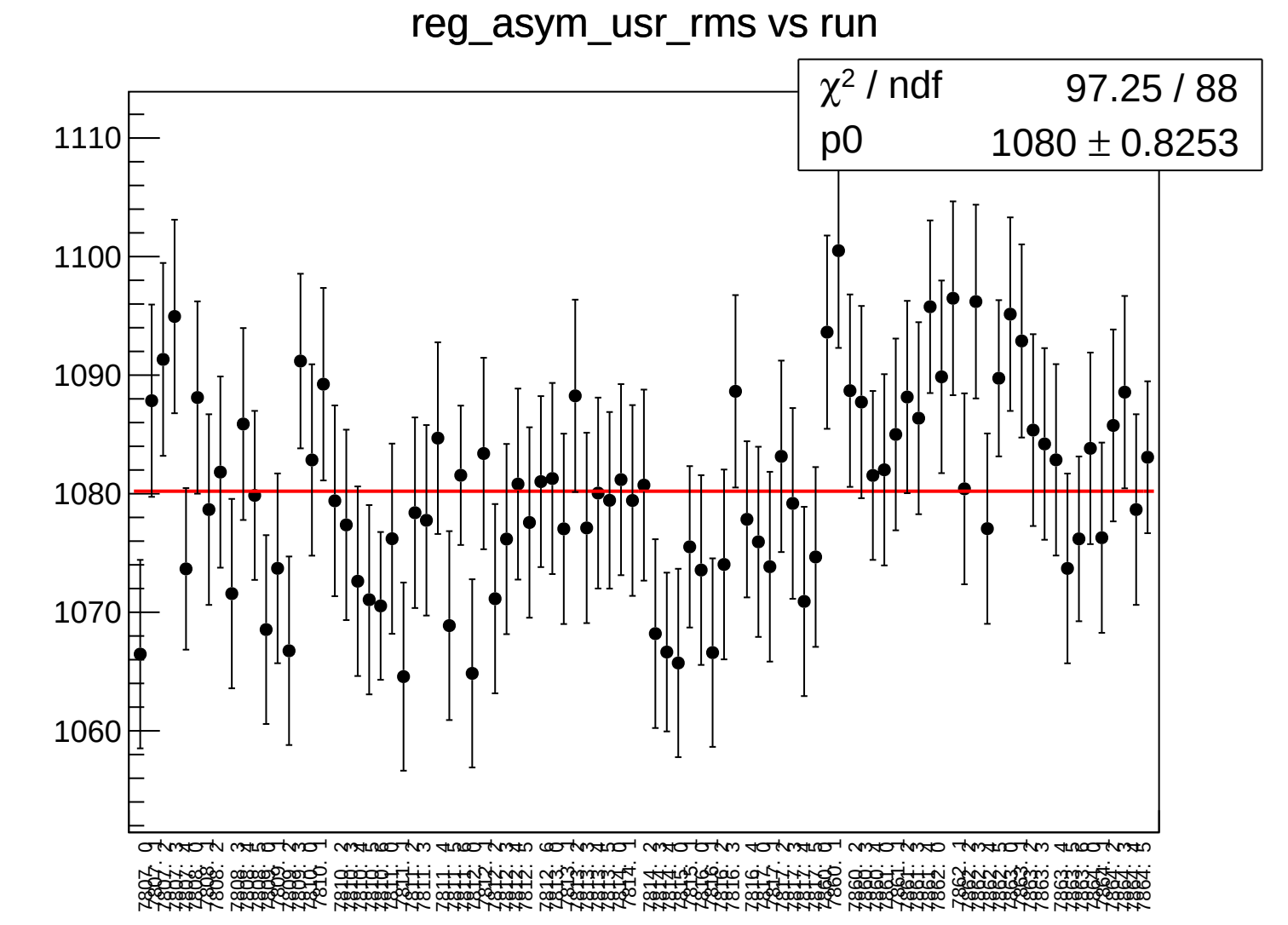

asym_usl_mean vs run
χ² / ndf 104.5 / 88
p0 −5519 ± 1819
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −2802
Std Dev 2837
4
3
2
1
0
−1
−2
−3

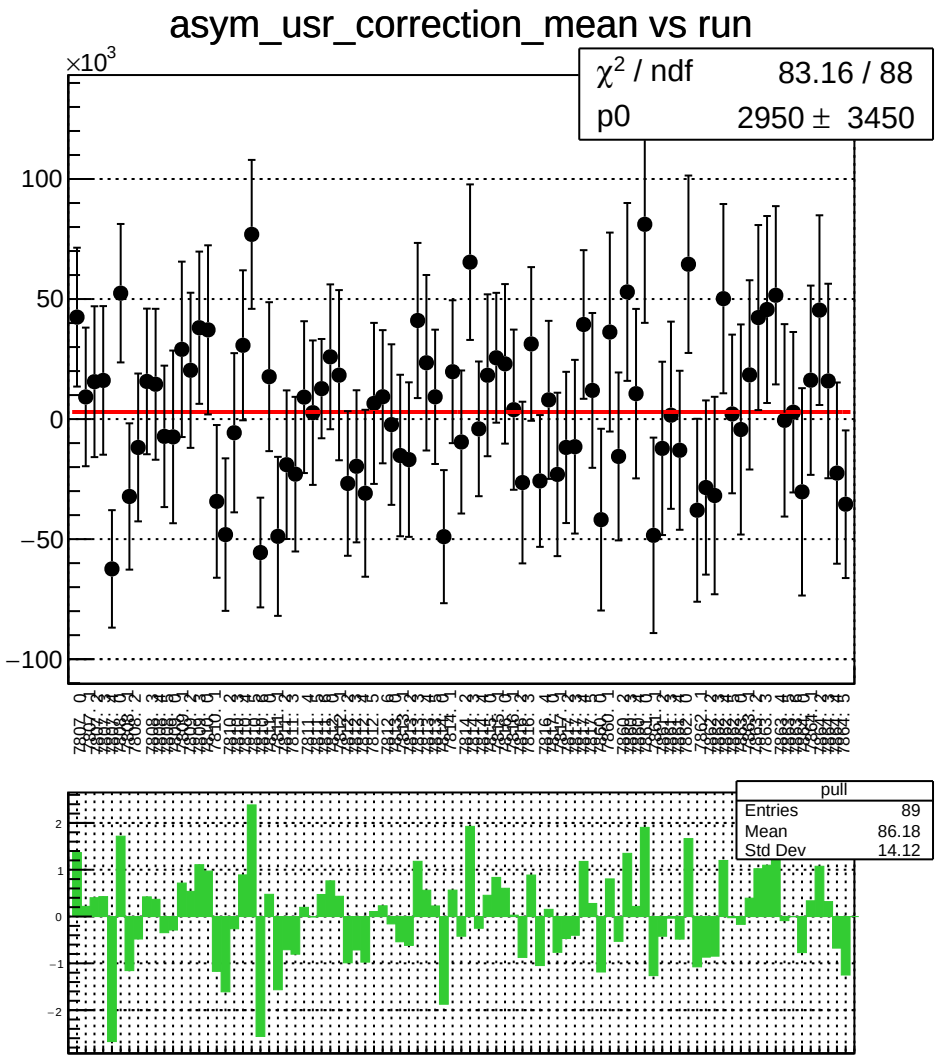

pull1D
Entries 89
Mean 0.0006378
Std Dev 1.083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

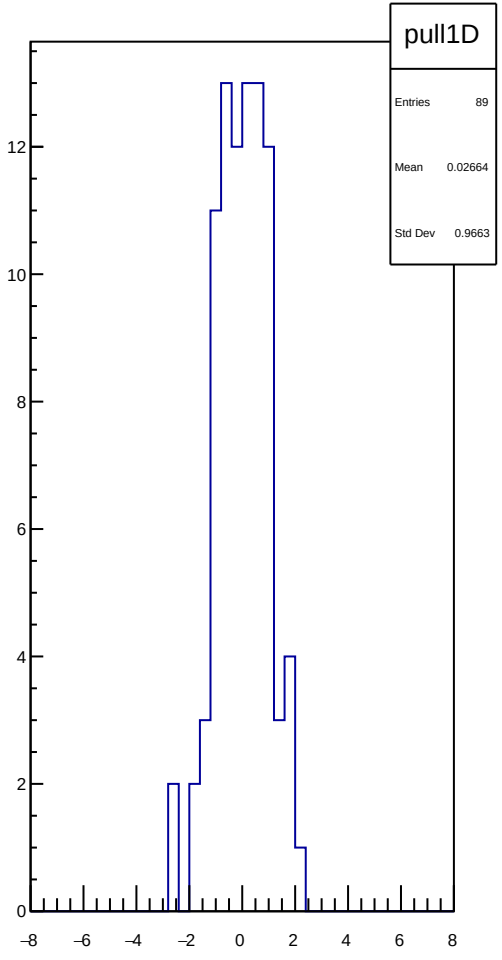

asym_usl_rms vs run
χ² / ndf 4087 / 88
p0 1682 ± 1.287
1850
1800
1750
1700
1650
1600
1550

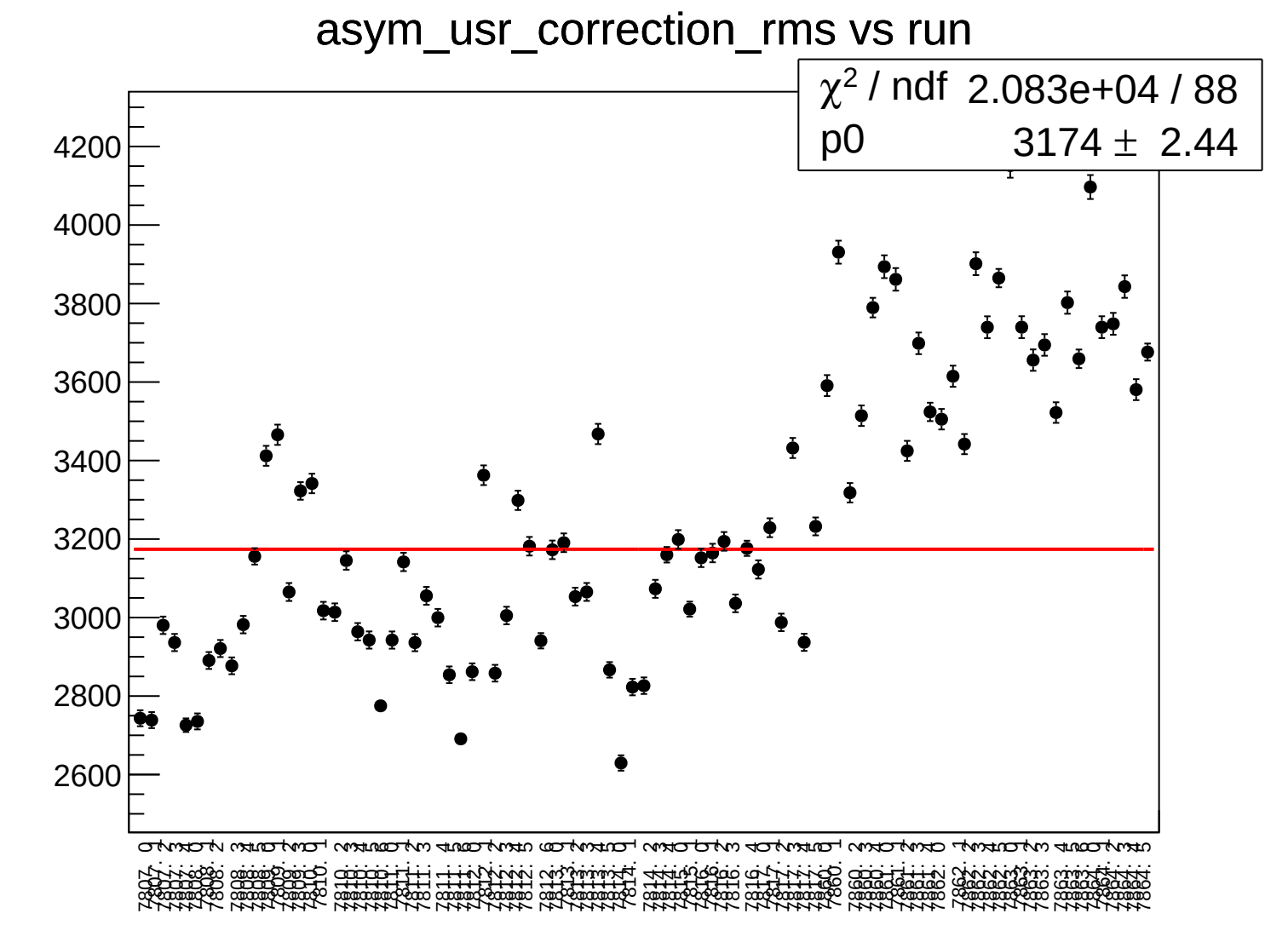

reg_asym_usr_mean vs run
χ² / ndf 71.38 / 88
p0 −1478 ± 1167
pull
Entries 89
Mean 1439
Std Dev 1386

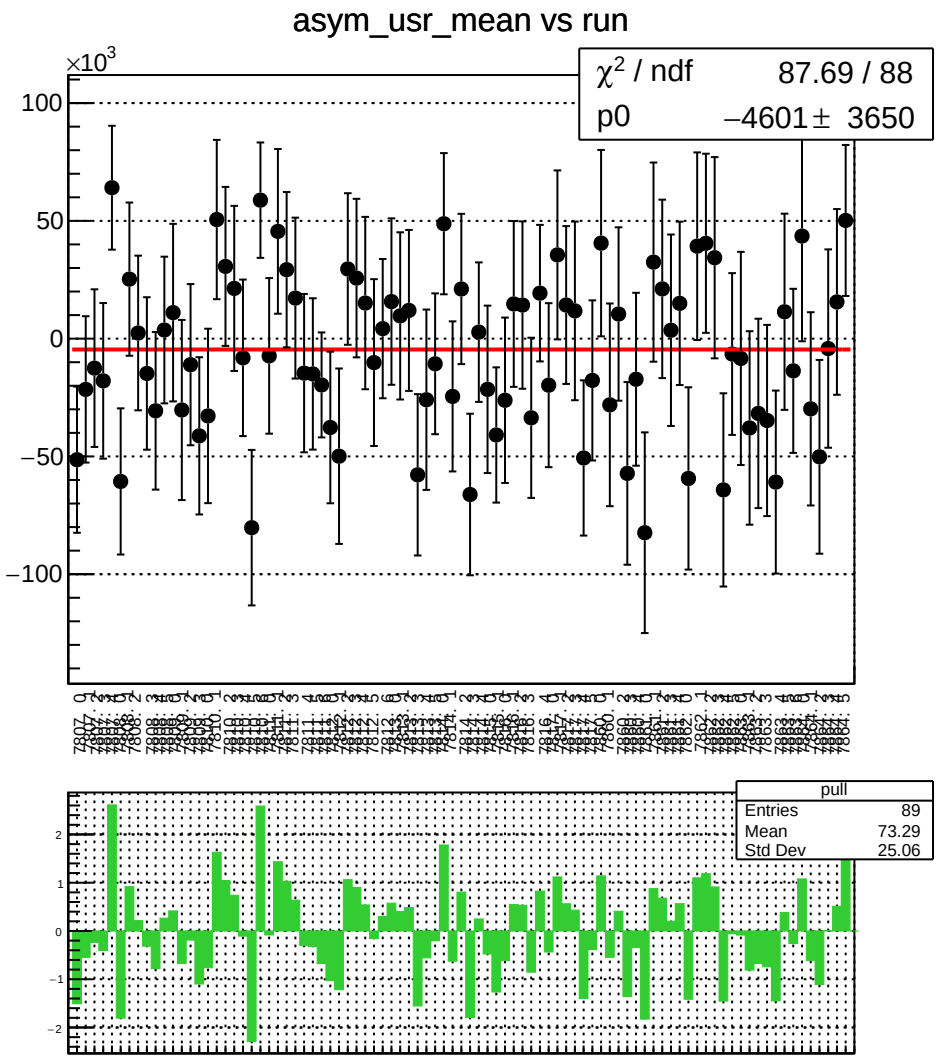

pull1D
Entries 89
Mean 0.0009688
Std Dev 0.8956

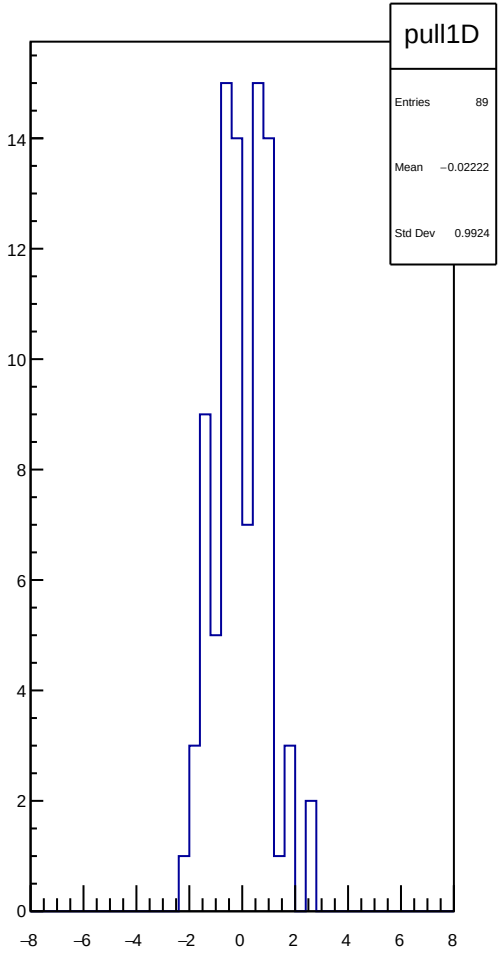

reg_asym_usr_rms vs run
χ^2 / ndf 97.25 / 88
p0 1080 ± 0.8253
1110
1100
1090
1080
1070
1060

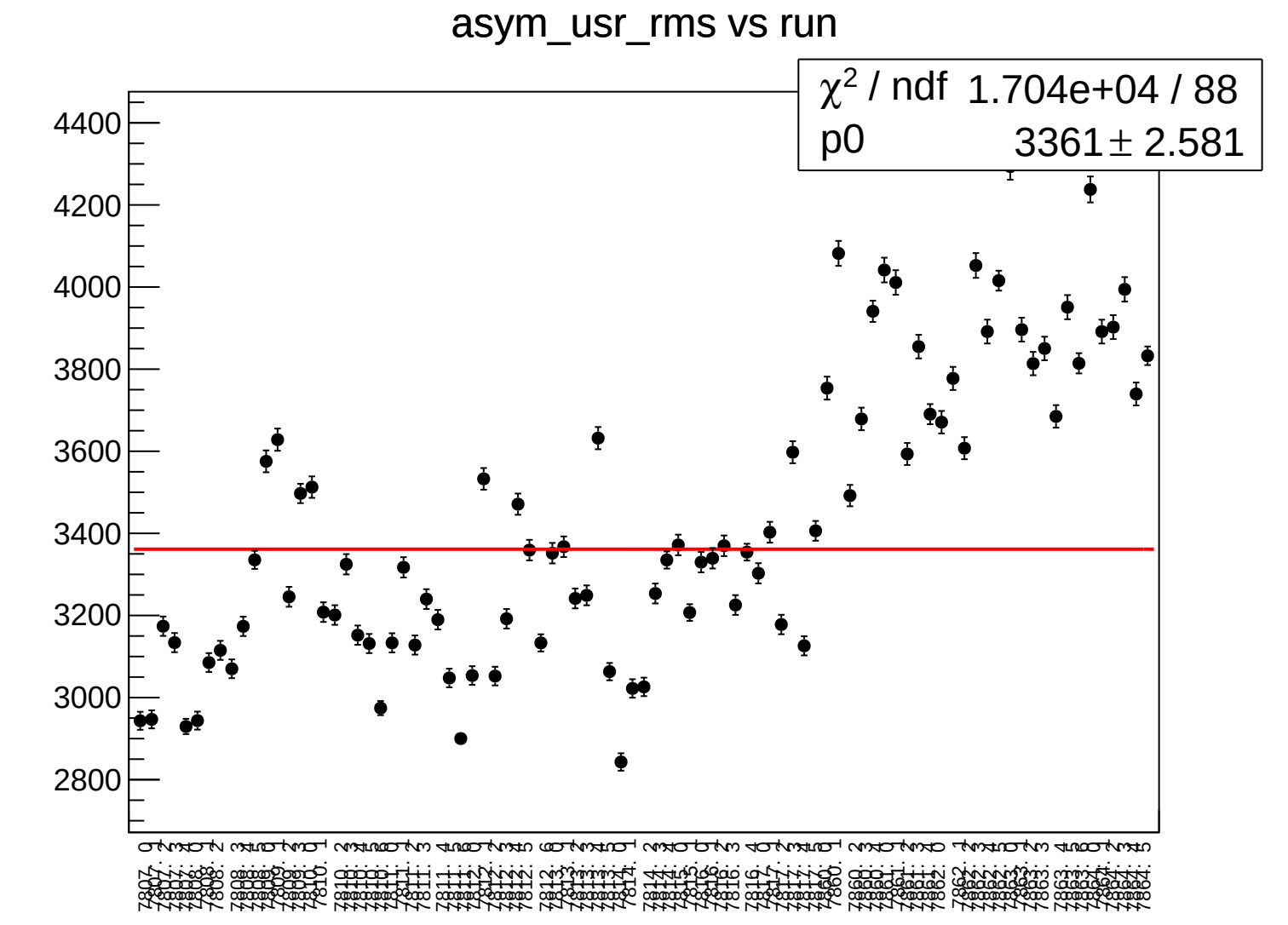

asym_usr_correction_mean vs run
×10^3
χ² / ndf 83.16 / 88
p0 2950 ± 3450
100
50
0
−50
−100
pull
Entries 89
Mean 86.18
Std Dev 14.12
2
1
0
−1
−2

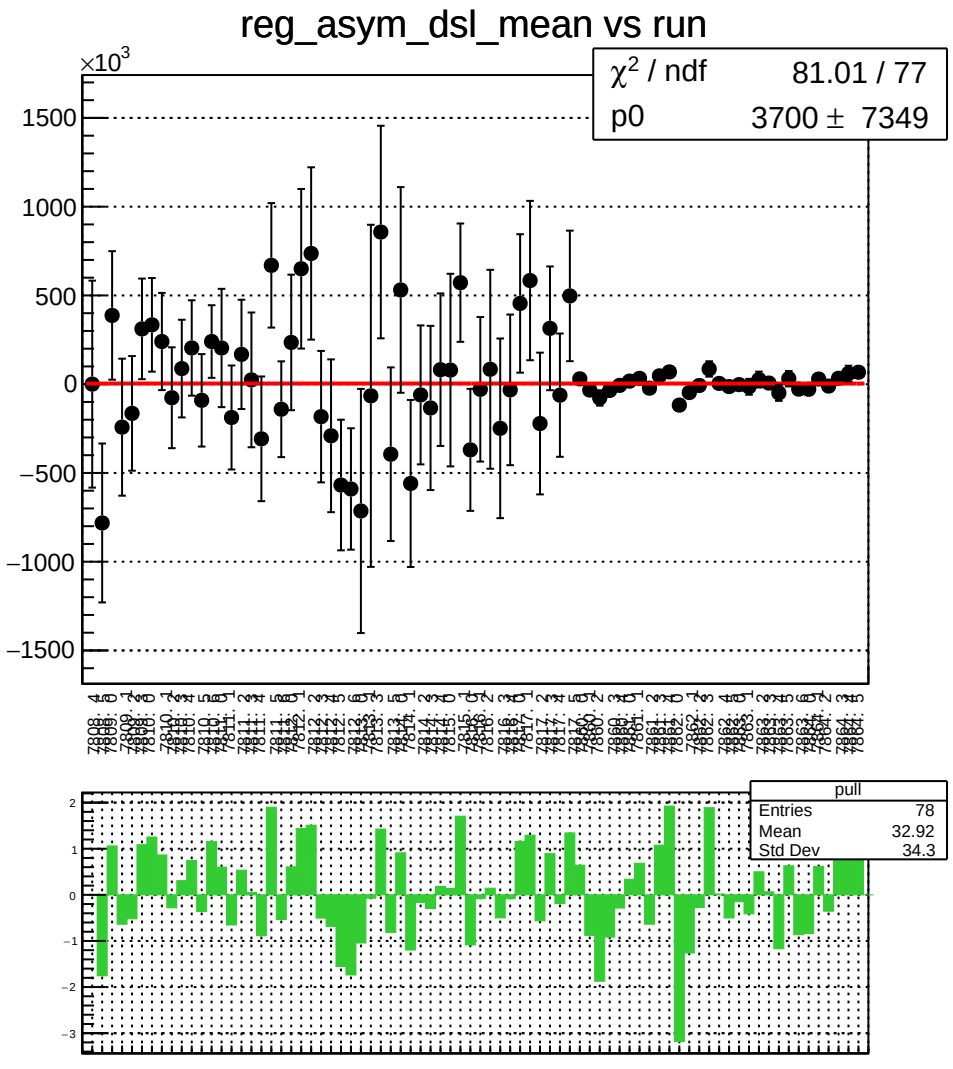

pull1D
Entries 89
Mean 0.02664
Std Dev 0.9663
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

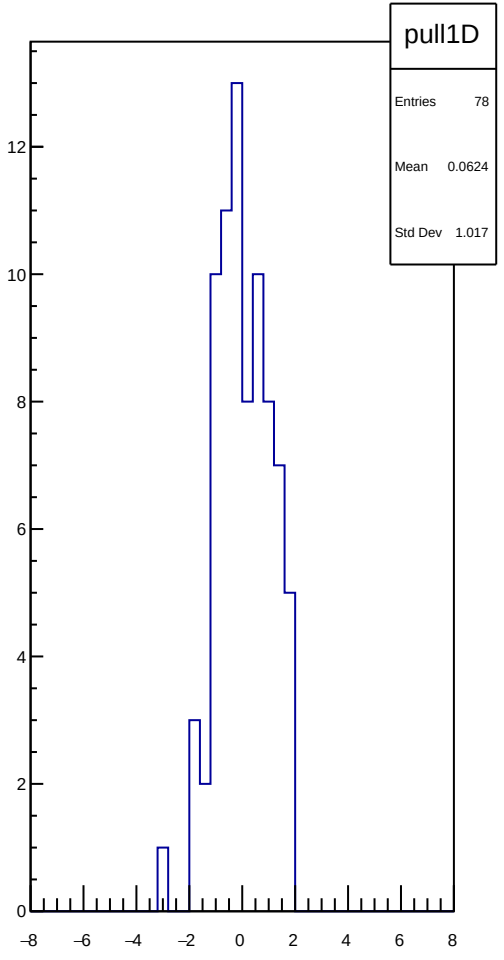

asym_usr_correction_rms vs run
χ² / ndf 2.083e+04 / 88
p0 3174 ± 2.44
4200
4000
3800
3600
3400
3200
3000
2800
2600

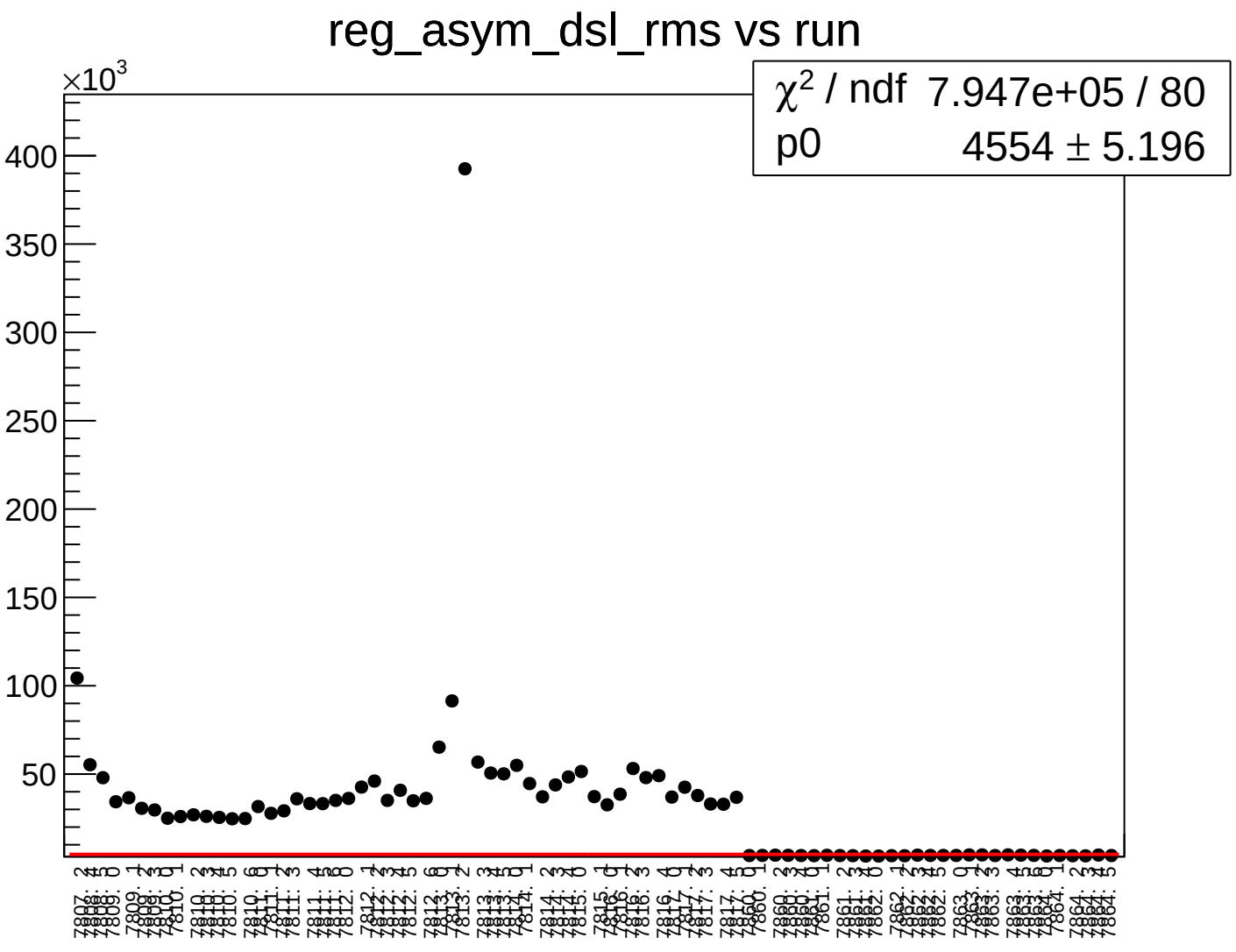

asym_usr_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 87.69 / 88
p0 −4601 ± 3650
pull
Entries 89
Mean 73.29
Std Dev 25.06
2
1
0
−1
−2

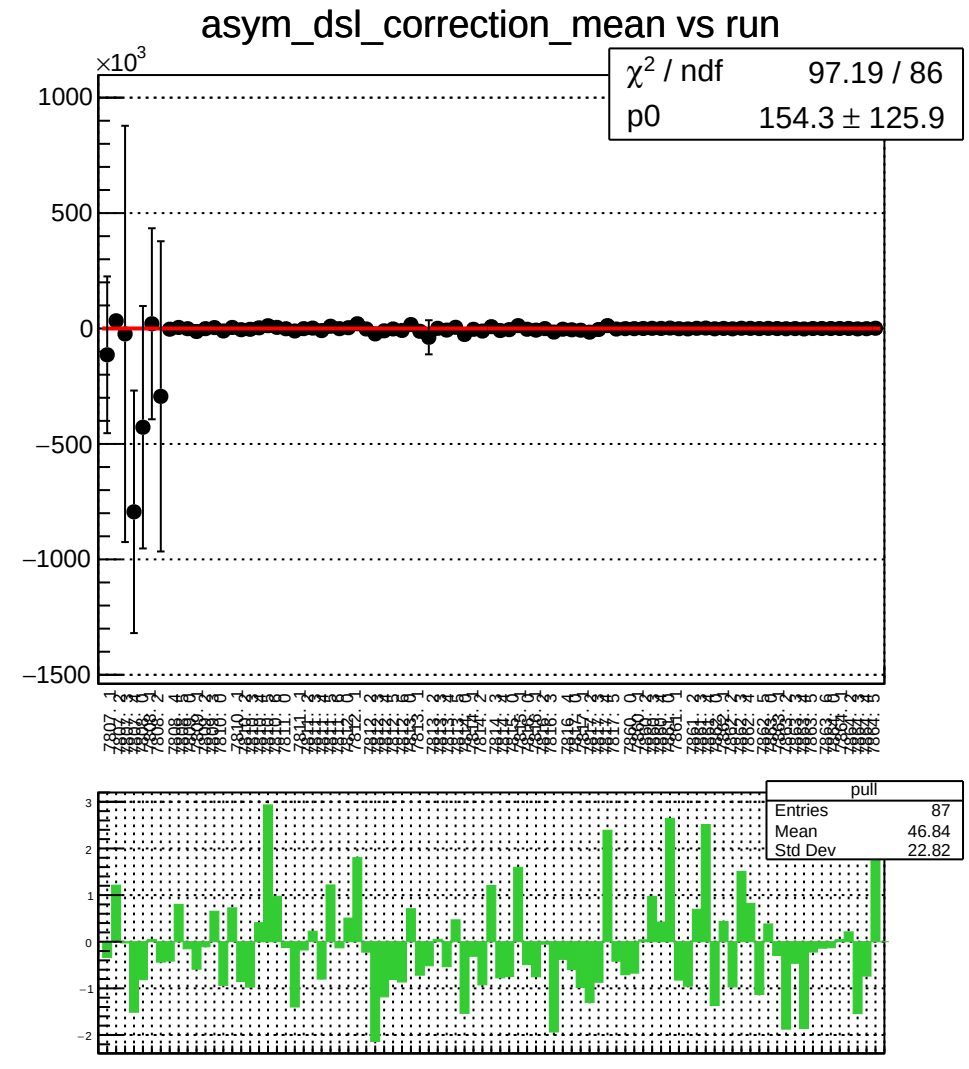

pull1D
Entries 89
Mean −0.02222
Std Dev 0.9924
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

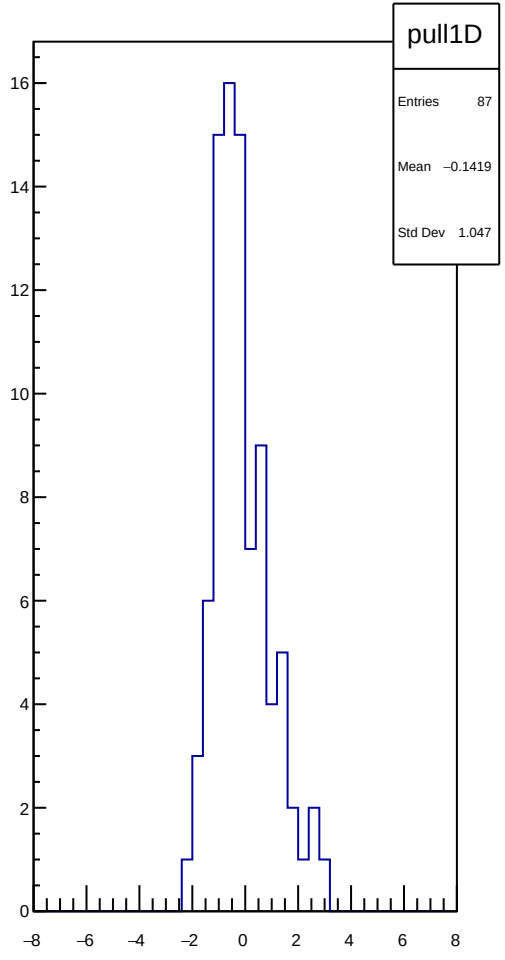

asym_usr_rms vs run
χ² / ndf 1.704e+04 / 88
p0 3361 ± 2.581
4400
4200
4000
3800
3600
3400
3200
3000
2800

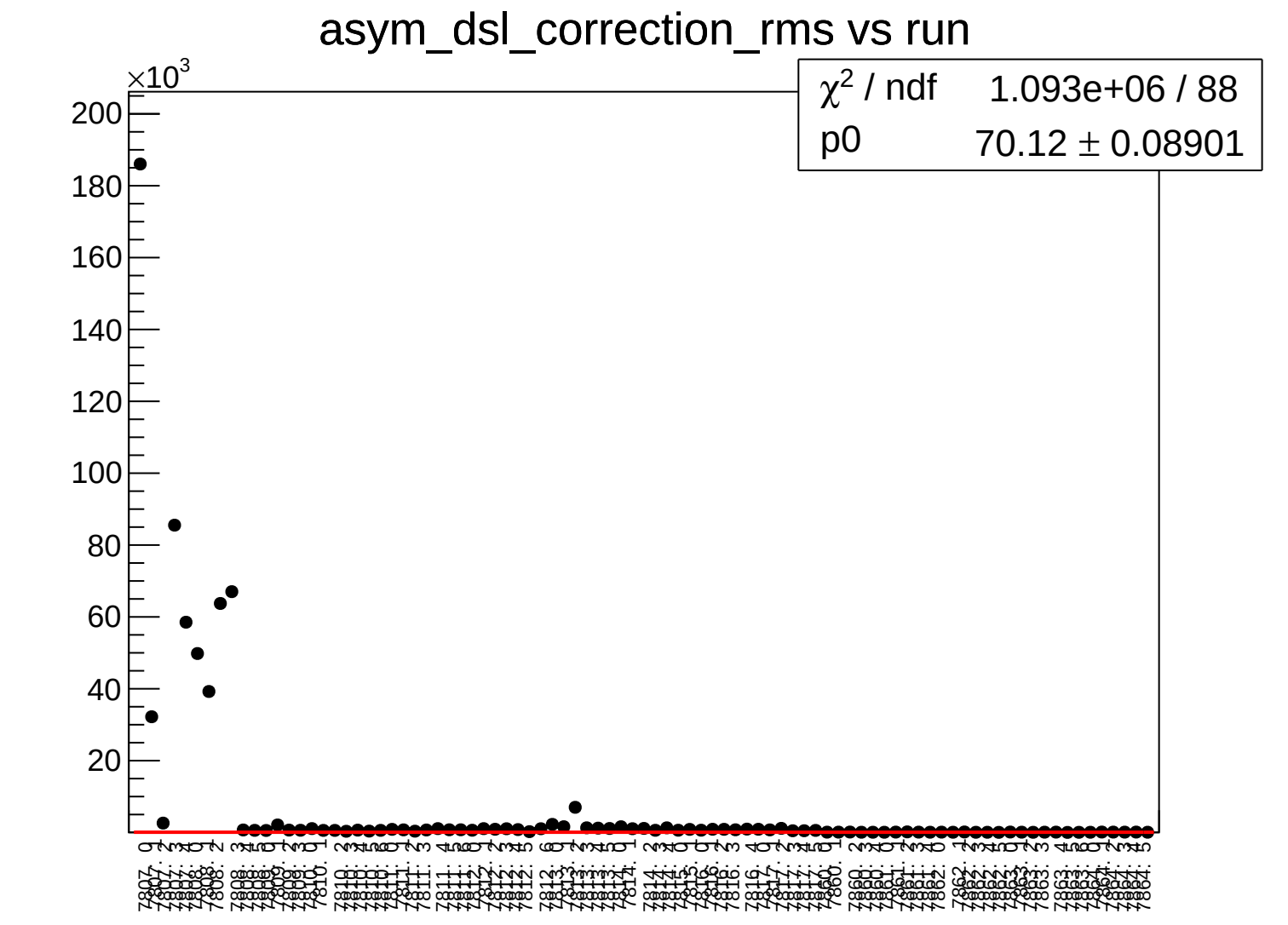

reg_asym_dsl_mean vs run
×10^3
χ² / ndf 81.01 / 77
p0 3700 ± 7349
1500
1000
500
0
−500
−1000
−1500
pull
Entries 78
Mean 32.92
Std Dev 34.3
2
1
0
−1
−2
−3

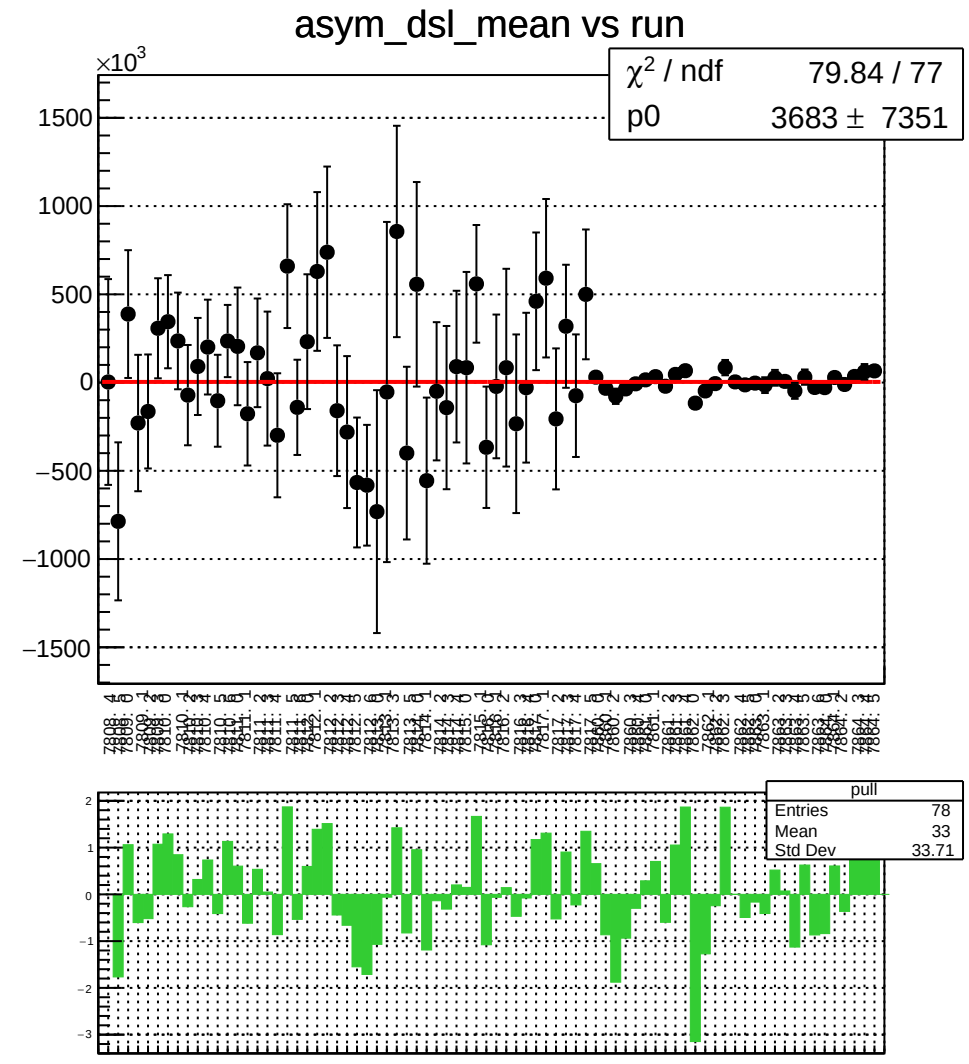

pull1D
Entries 78
Mean 0.0624
Std Dev 1.017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

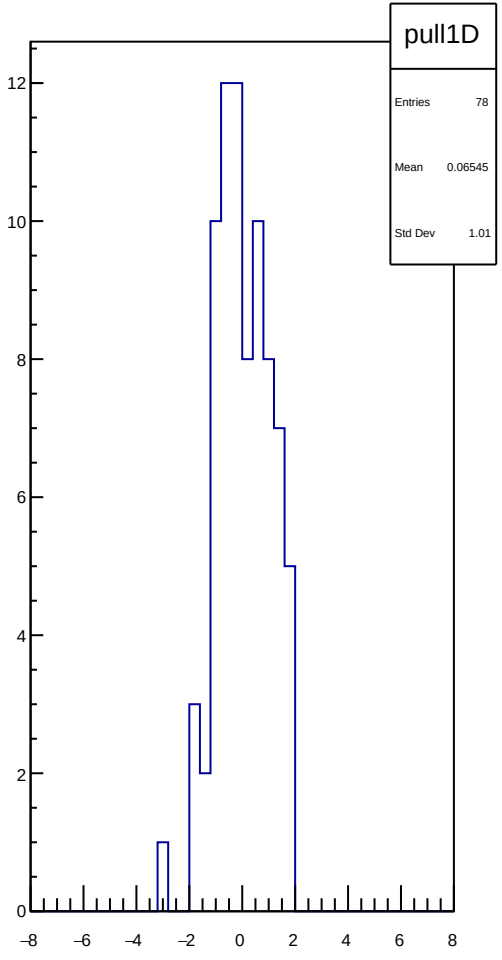

reg_asym_dsl_rms vs run
×10^3
χ² / ndf 7.947e+05 / 80
p0 4554 ± 5.196
400
350
300
250
200
150
100
50

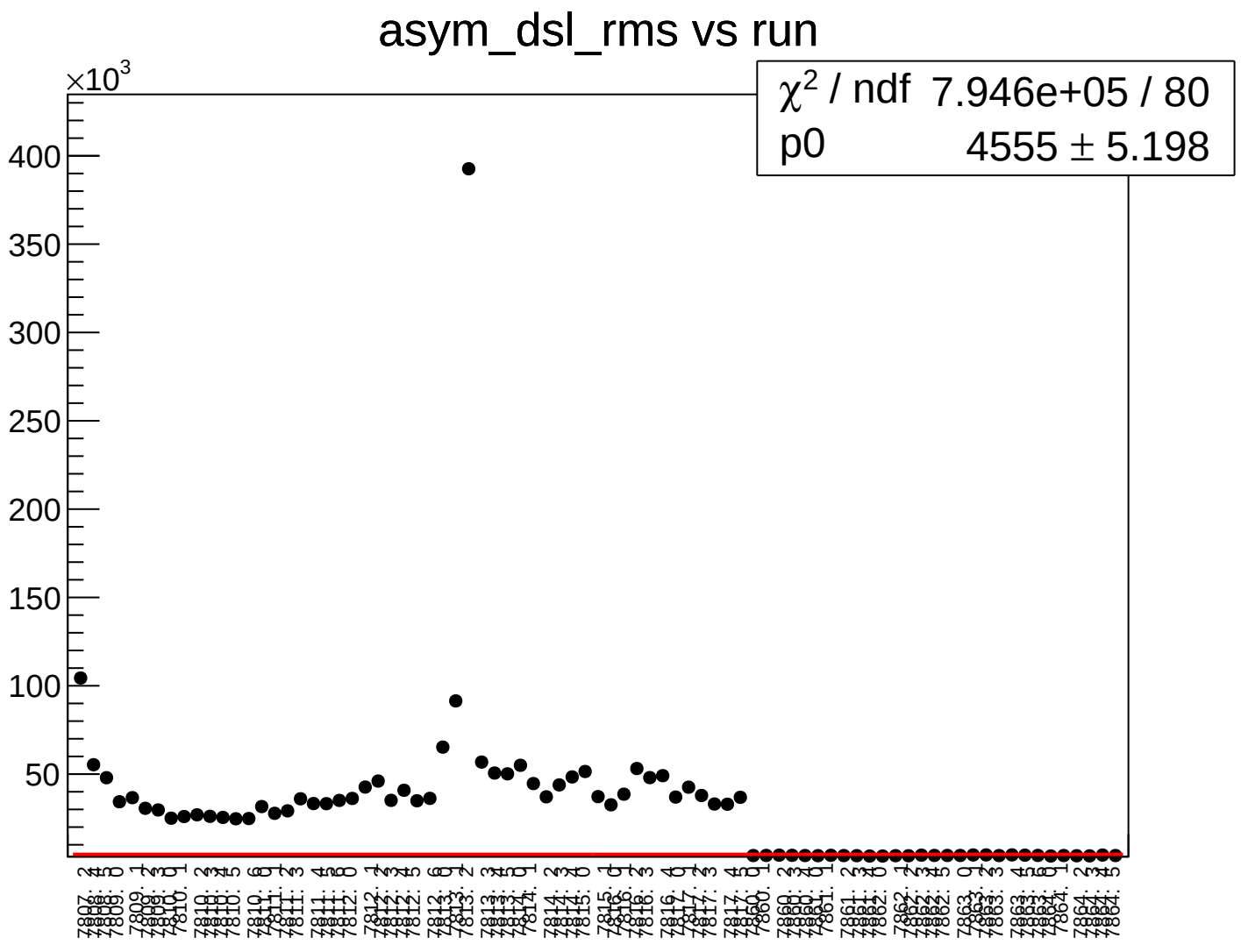

asym_dsl_correction_mean vs run
×10^3
χ² / ndf 97.19 / 86
p0 154.3 ± 125.9
1000
500
0
−500
−1000
−1500
pull
Entries 87
Mean 46.84
Std Dev 22.82
3
2
1
0
−1
−2

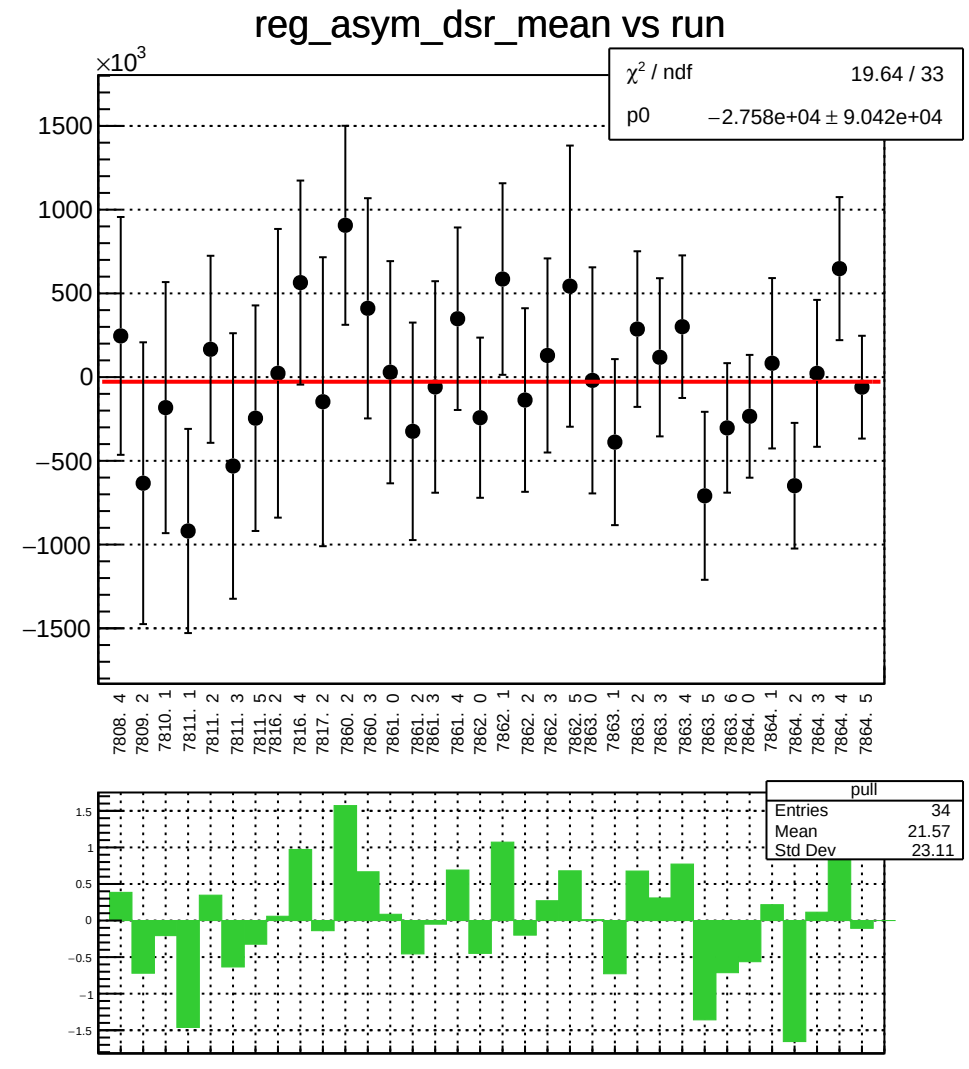

pull1D
Entries 87
Mean −0.1419
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

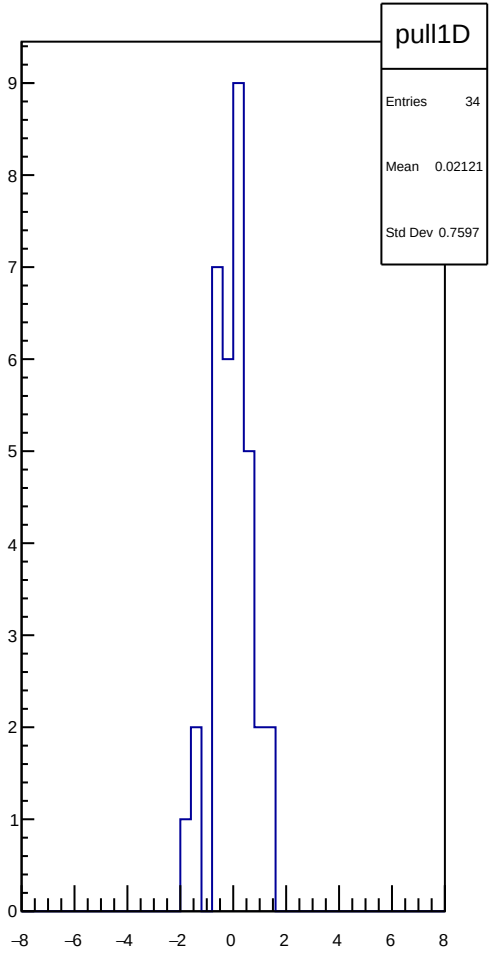

asym_dsl_correction_rms vs run
×10^3
200
180
160
140
120
100
80
60
40
20
χ² / ndf 1.093e+06 / 88
p0 70.12 ± 0.08901

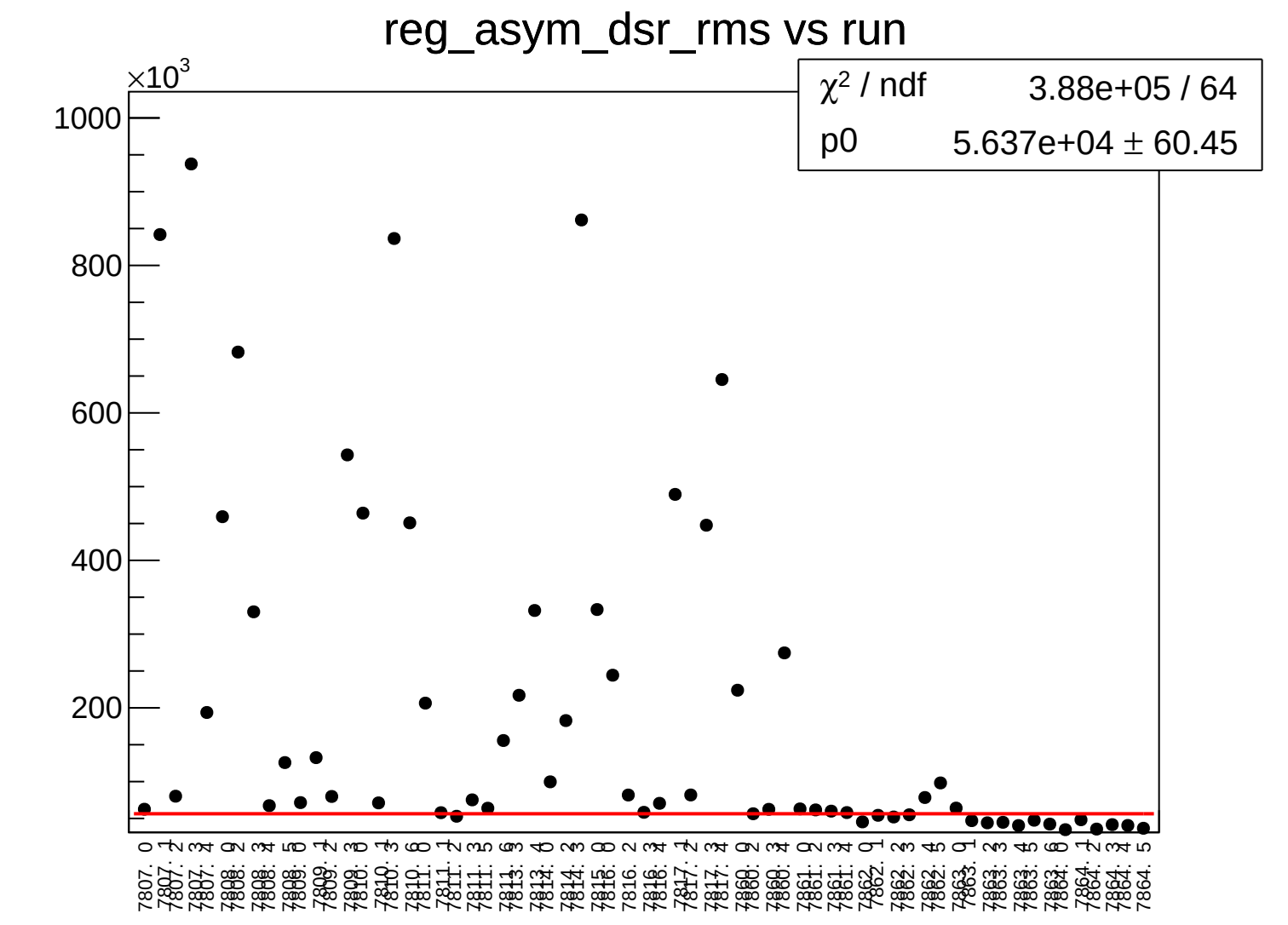

asym_dsl_mean vs run
×10^3
χ^2 / ndf 79.84 / 77
p0 3683 ± 7351
1500
1000
500
0
−500
−1000
−1500
pull
Entries 78
Mean 33
Std Dev 33.71
2
1
0
−1
−2
−3

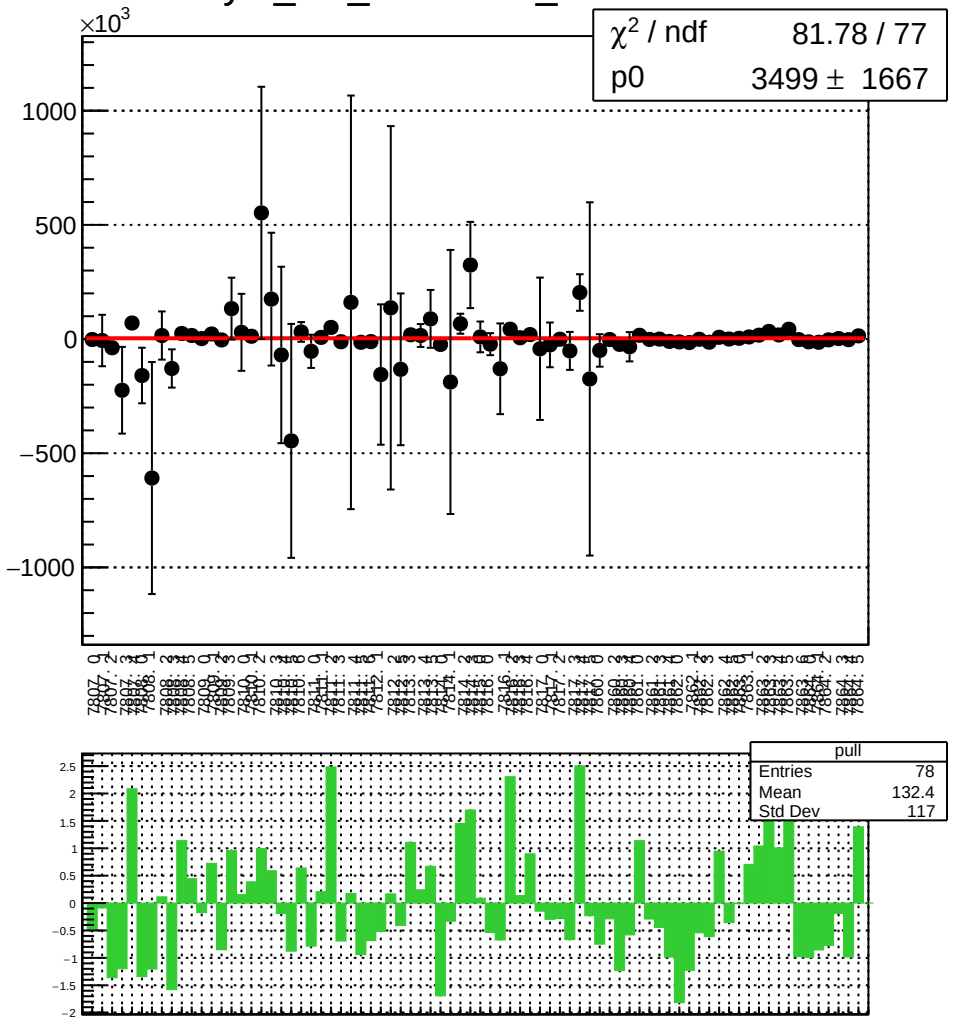

pull1D
Entries 78
Mean 0.06545
Std Dev 1.01
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

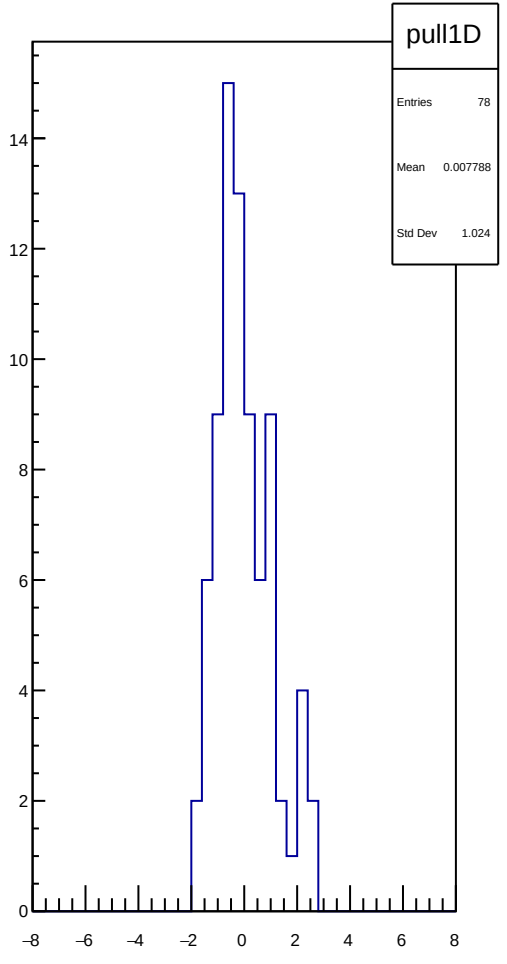

asym_dsl_rms vs run
×10^3
χ^2 / ndf 7.946e+05 / 80
p0 4555 ± 5.198
400
350
300
250
200
150
100
50

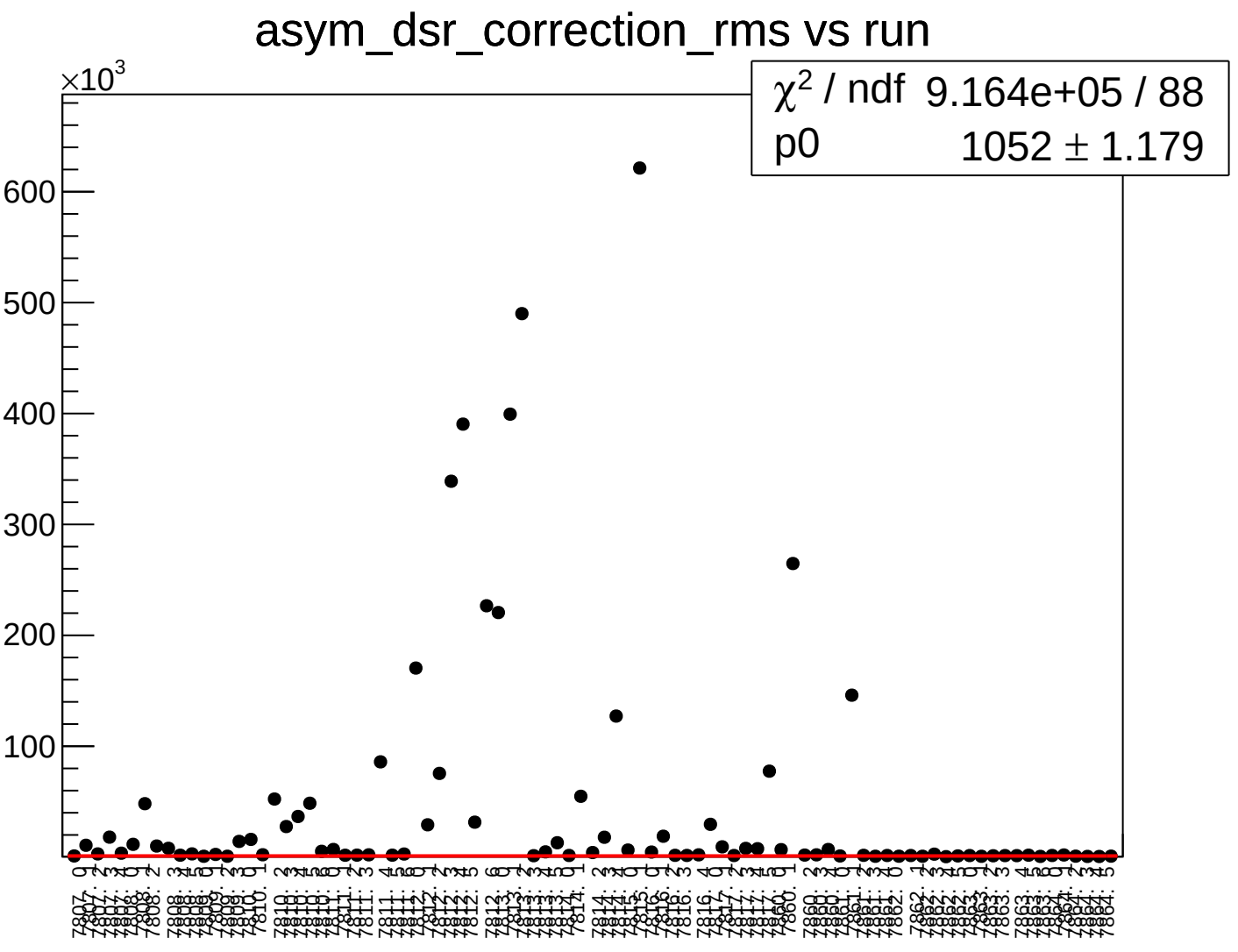

reg_asym_dsr_mean vs run
×10^3
χ² / ndf 19.64 / 33
p0 −2.758e+04 ± 9.042e+04
1500
1000
500
0
−500
−1000
−1500
7808. 4
7809. 2
7810. 1
7811. 1
7811. 2
7811. 3
7811. 5
7816. 2
7816. 4
7817. 2
7860. 2
7860. 3
7861. 0
7861. 2
7861. 3
7861. 4
7862. 0
7862. 1
7862. 2
7862. 3
7862. 5
7863. 0
7863. 1
7863. 2
7863. 3
7863. 4
7863. 5
7863. 6
7864. 0
7864. 1
7864. 2
7864. 3
7864. 4
7864. 5
pull
Entries 34
Mean 21.57
Std Dev 23.11
1.5
1
0.5
0
−0.5
−1
−1.5

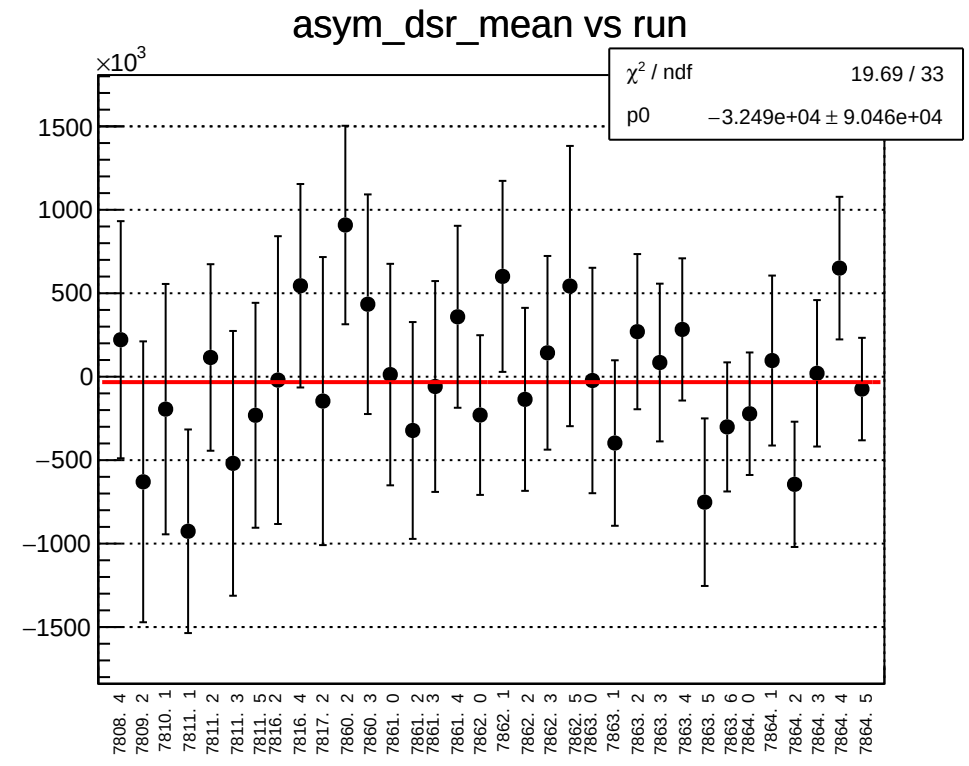

pull1D
Entries 34
Mean 0.02121
Std Dev 0.7597
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

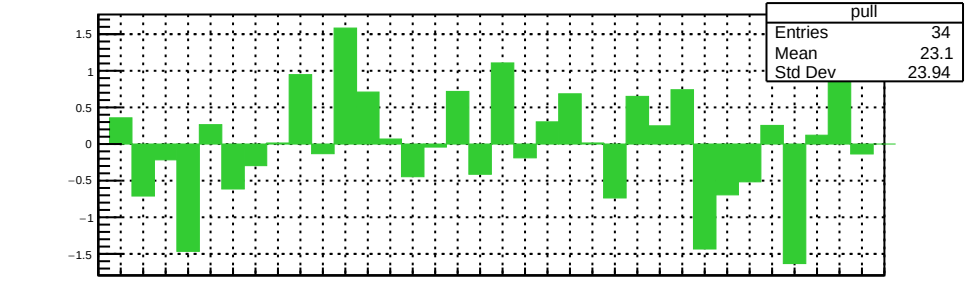

reg_asym_dsr_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 3.88e+05 / 64
p0 5.637e+04 ± 60.45

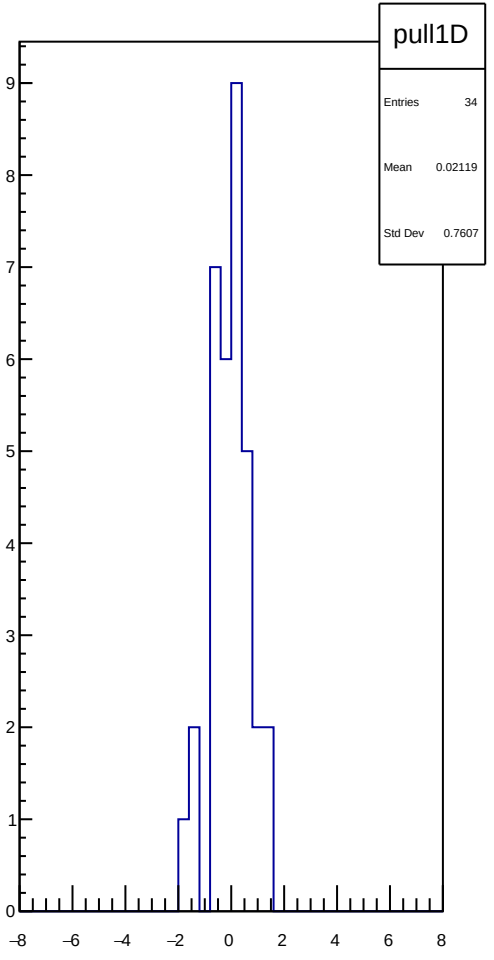

asym_dsr_correction_mean vs run
×10^3
χ² / ndf 81.78 / 77
p0 3499 ± 1667
1000
500
0
−500
−1000
pull
Entries 78
Mean 132.4
Std Dev 117
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

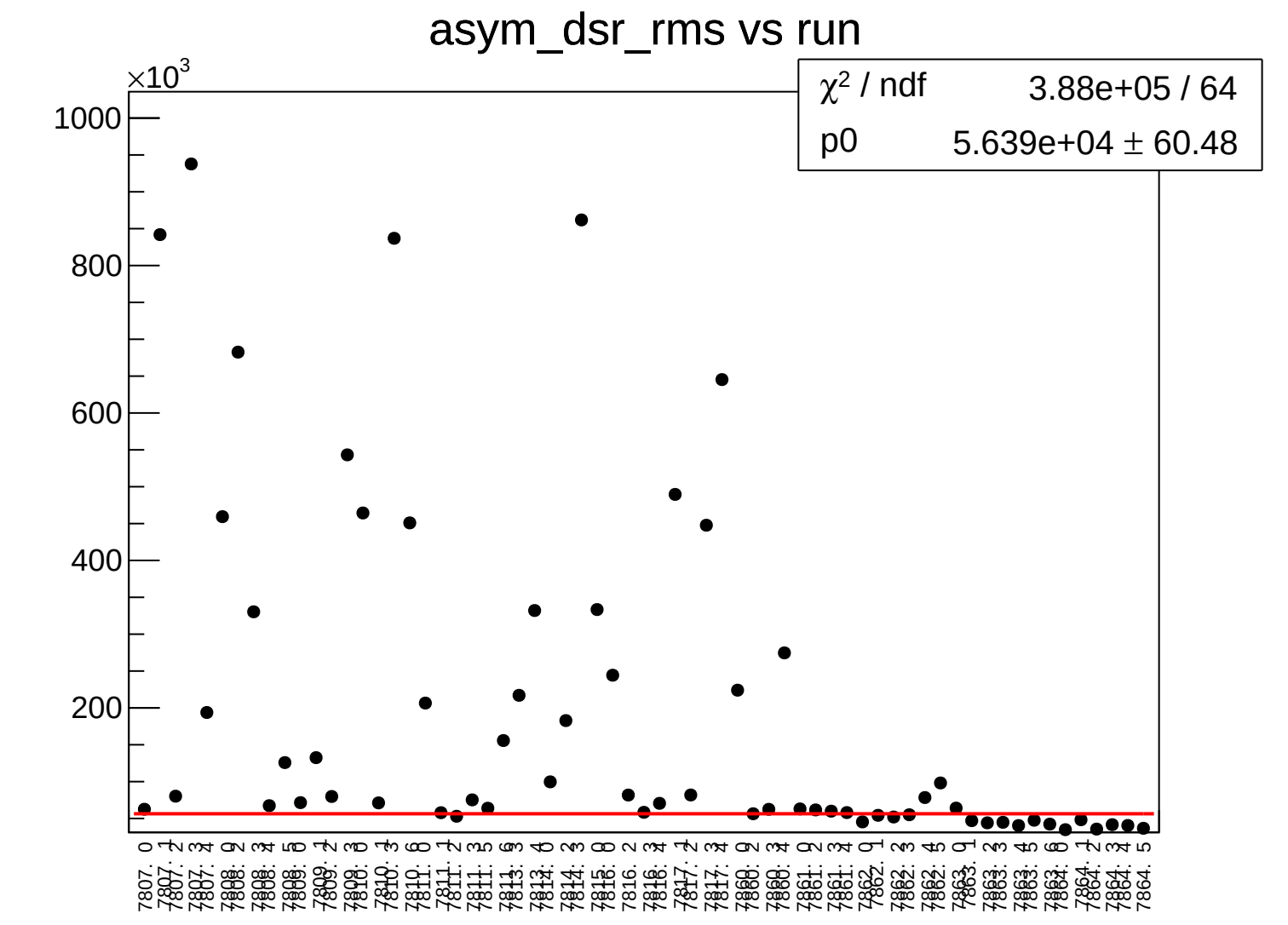

pull1D
Entries 78
Mean 0.007788
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

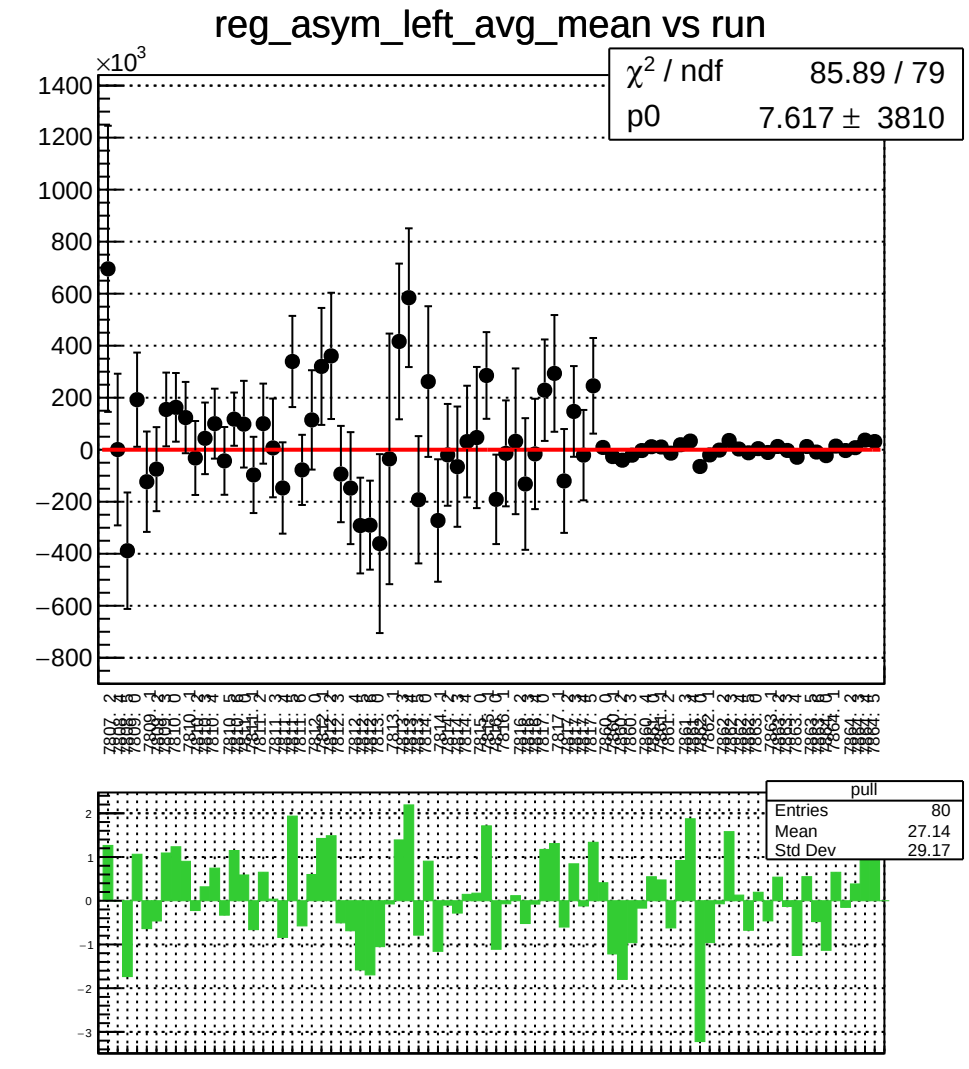

asym_dsr_correction_rms vs run
×10^3
χ^2 / ndf 9.164e+05 / 88
p0 1052 ± 1.179
600
500
400
300
200
100

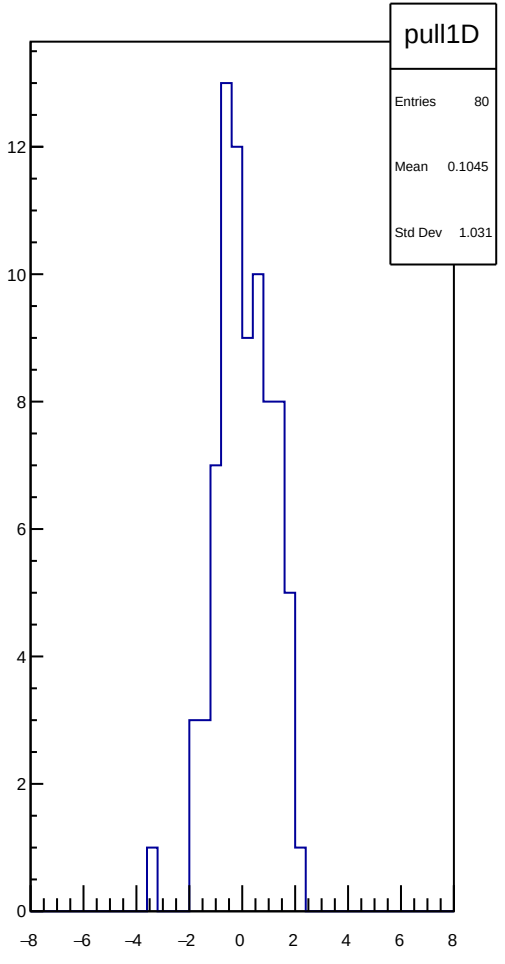

asym_dsr_mean vs run
×10^3
χ² / ndf 19.69 / 33
p0 −3.249e+04 ± 9.046e+04
1500
1000
500
0
−500
−1000
−1500
7808. 4
7809. 2
7810. 1
7811. 1
7811. 2
7811. 3
7811. 5
7816. 2
7816. 4
7817. 2
7860. 2
7860. 3
7861. 0
7861. 2
7861. 3
7861. 4
7862. 0
7862. 1
7862. 2
7862. 3
7862. 5
7863. 0
7863. 1
7863. 2
7863. 3
7863. 4
7863. 5
7863. 6
7864. 0
7864. 1
7864. 2
7864. 3
7864. 4
7864. 5

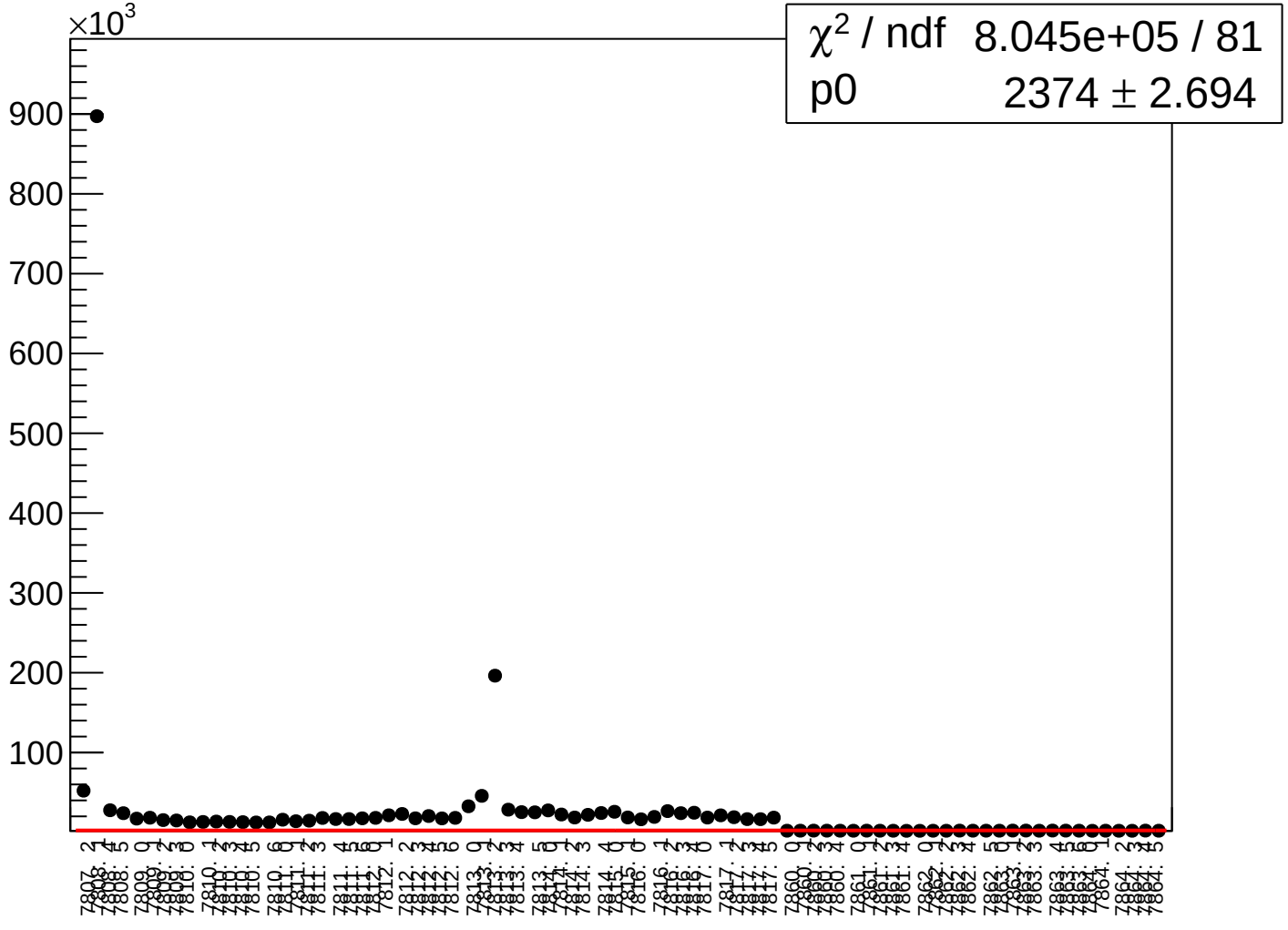

pull
Entries 34
Mean 23.1
Std Dev 23.94
1.5
1
0.5
0
−0.5
−1
−1.5

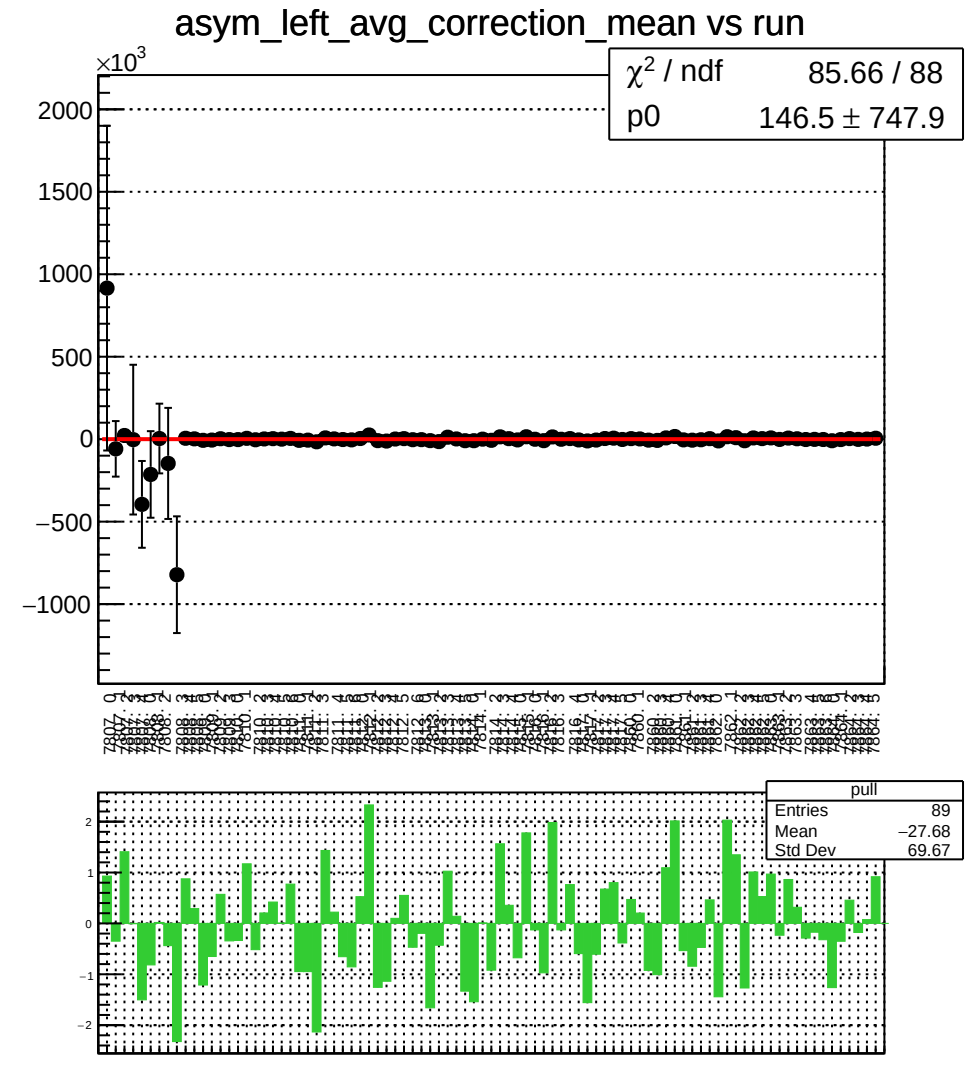

pull1D
Entries 34
Mean 0.02119
Std Dev 0.7607
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

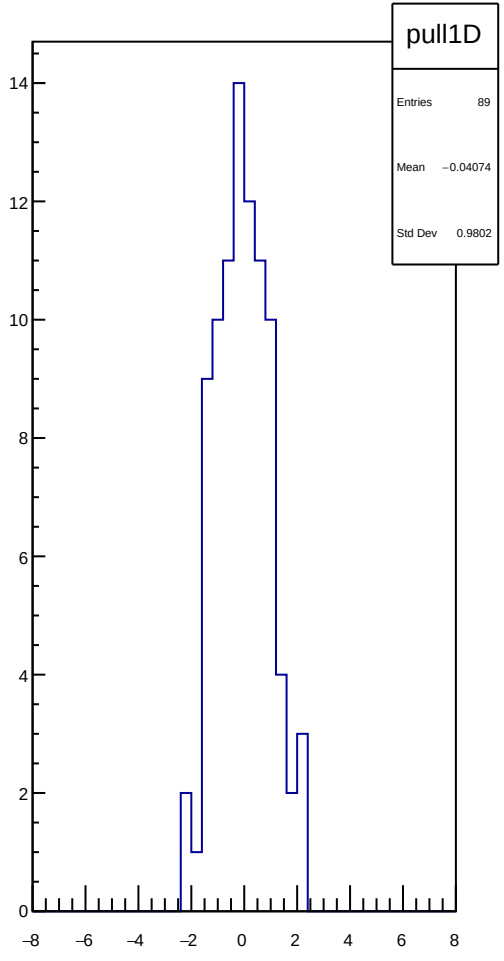

asym_dsr_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 3.88e+05 / 64
p0 5.639e+04 ± 60.48

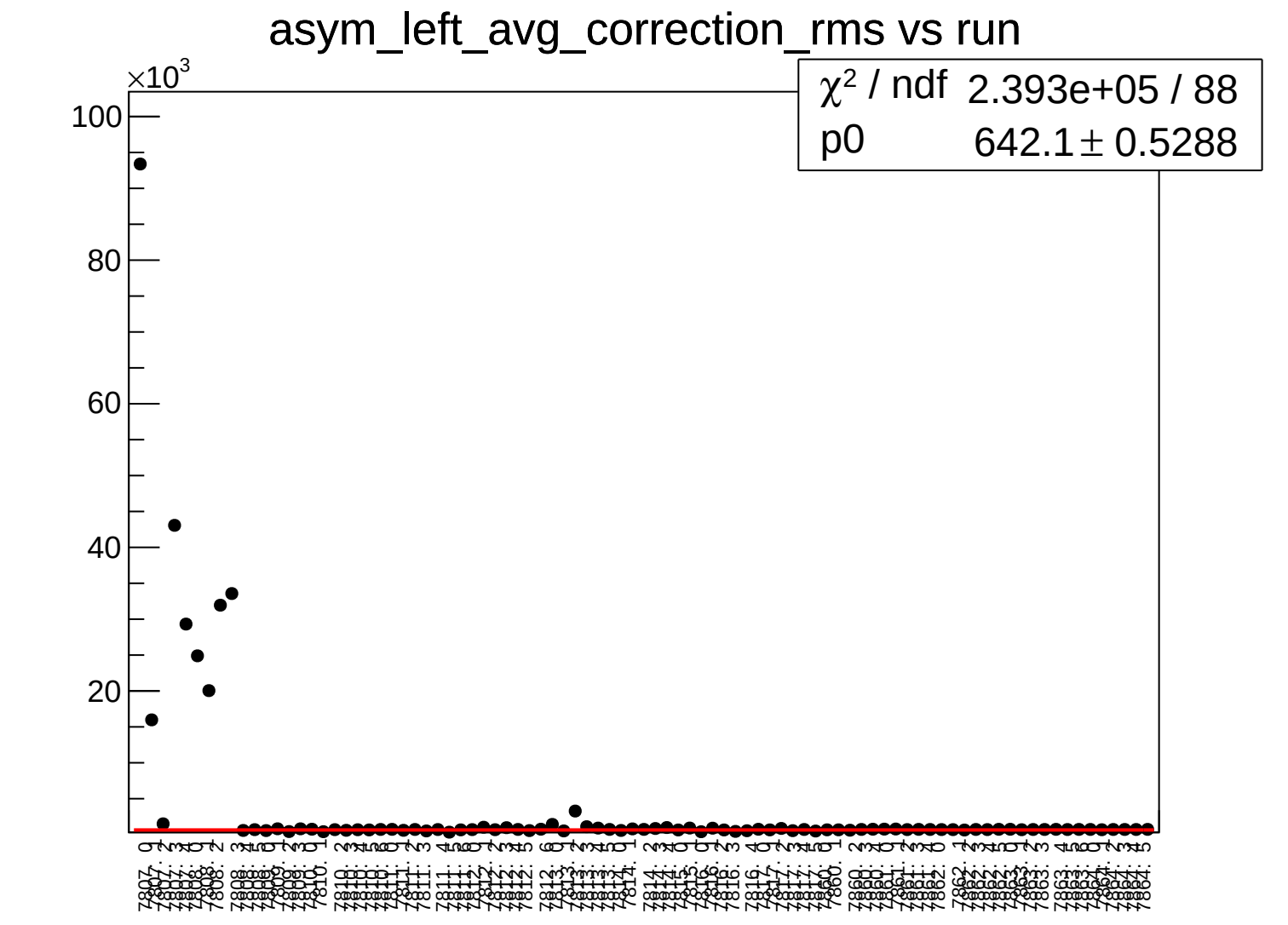

reg_asym_left_avg_mean vs run
×10^3
χ^2 / ndf 85.89 / 79
p0 7.617 ± 3810
pull
Entries 80
Mean 27.14
Std Dev 29.17

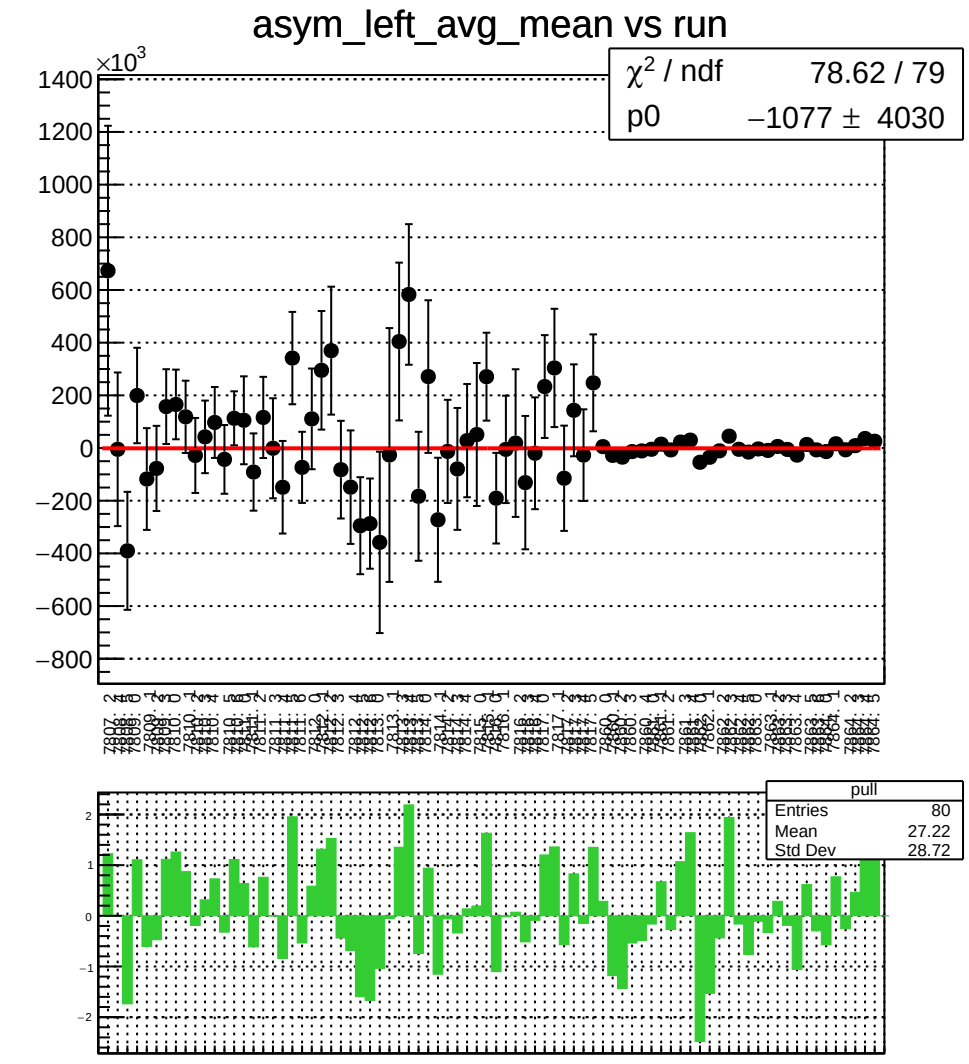

pull1D
Entries 80
Mean 0.1045
Std Dev 1.031

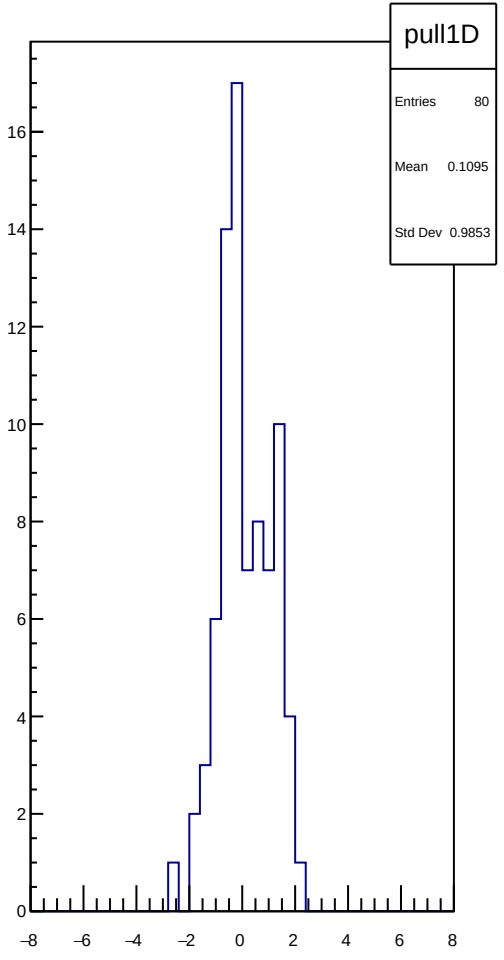

reg_asym_left_avg_rms vs run
×10^3
900
800
700
600
500
400
300
200
100
χ² / ndf 8.045e+05 / 81
p0 2374 ± 2.694

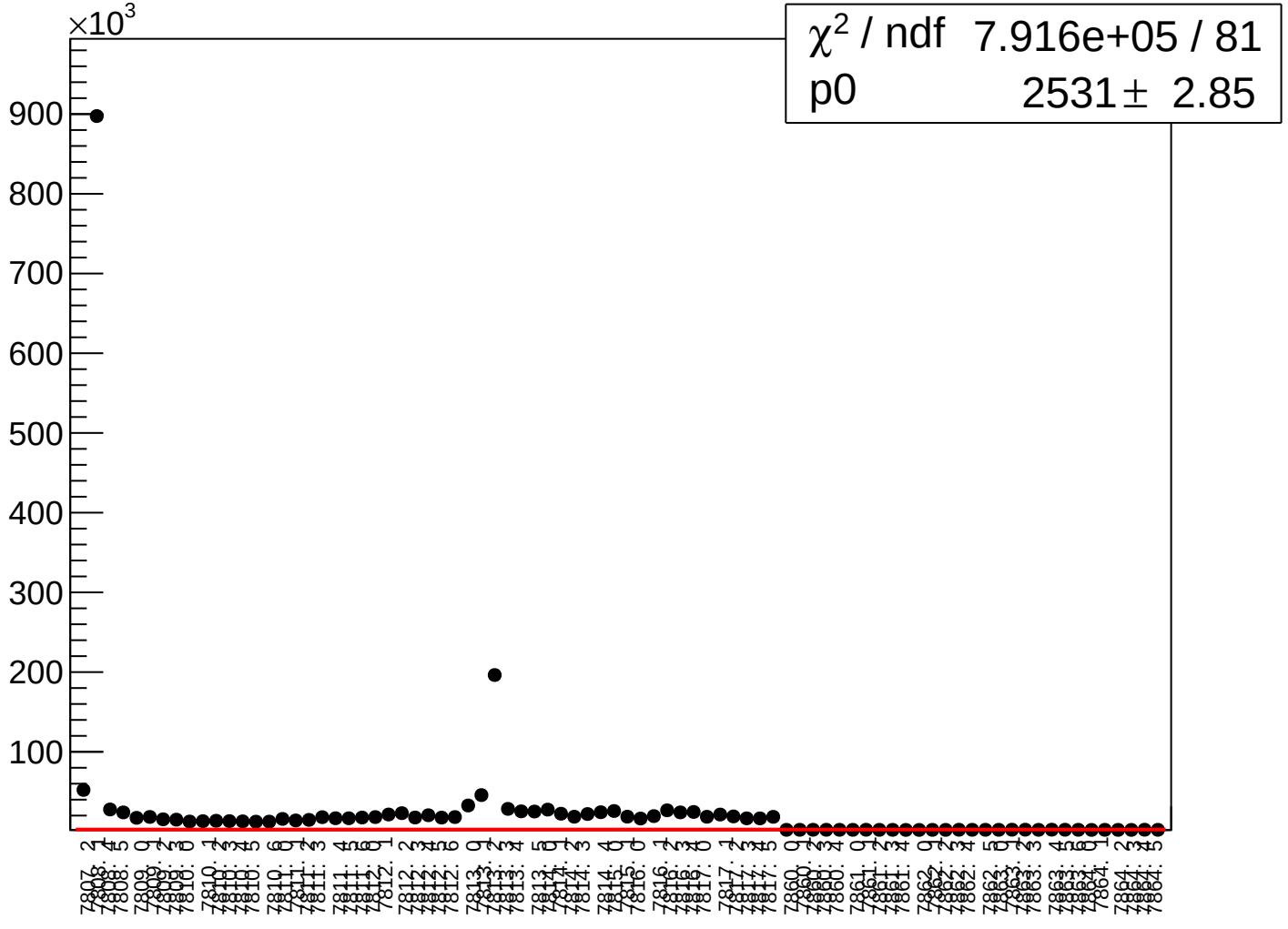

asym_left_avg_correction_mean vs run
×10^3
χ² / ndf 85.66 / 88
p0 146.5 ± 747.9
2000
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean −27.68
Std Dev 69.67
2
1
0
−1
−2

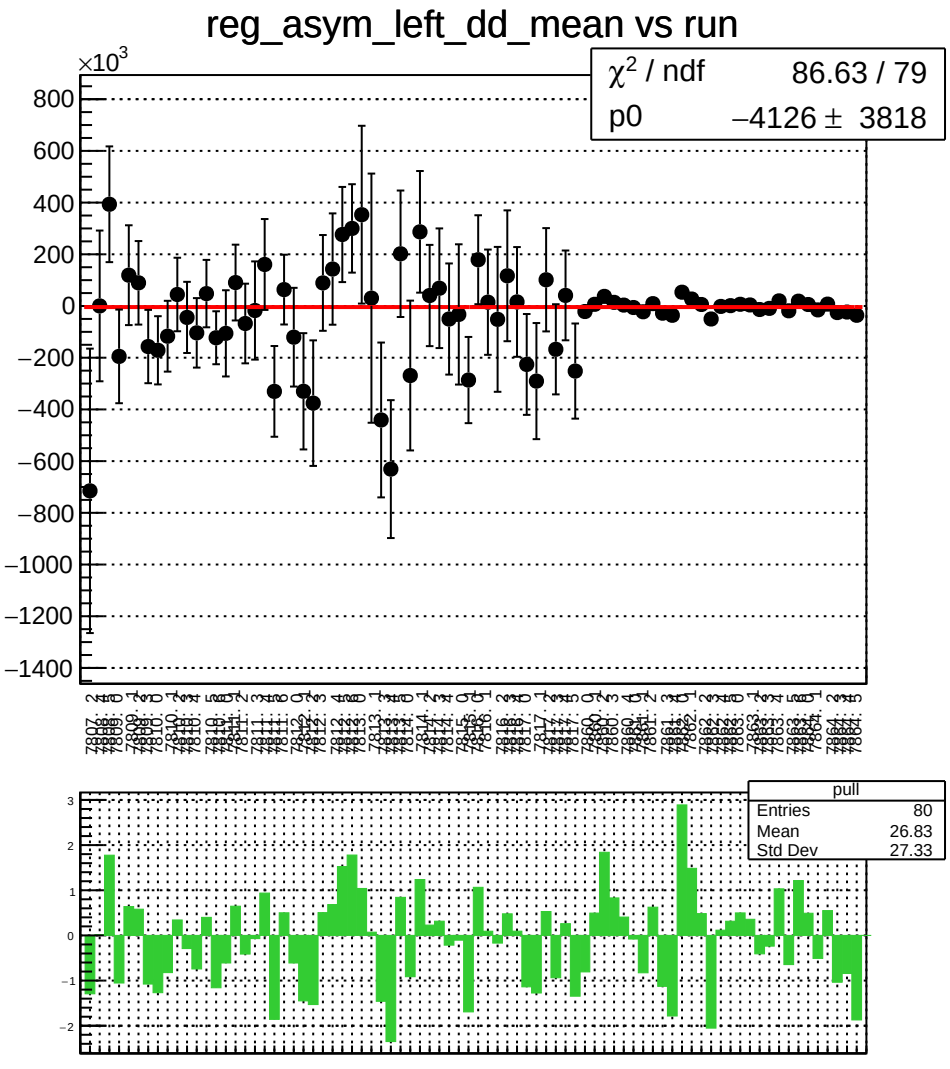

pull1D
Entries 89
Mean −0.04074
Std Dev 0.9802
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

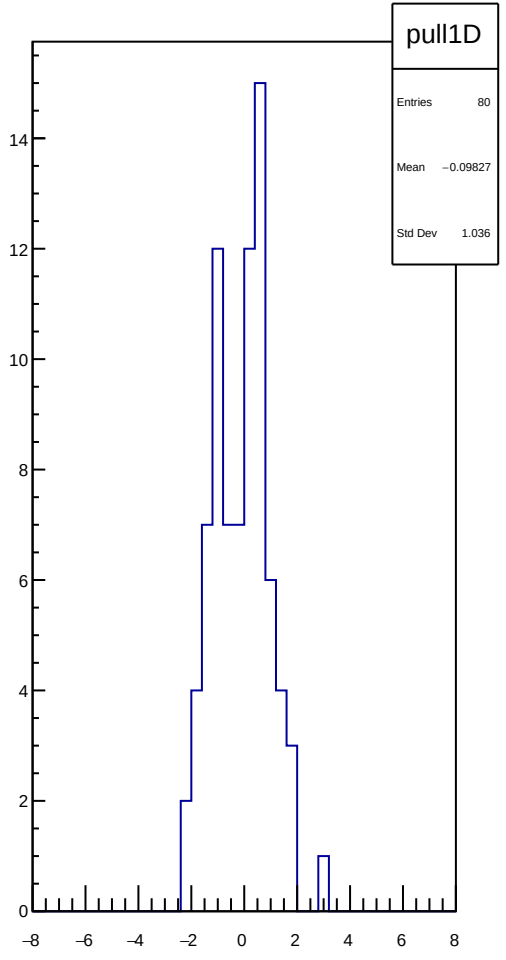

asym_left_avg_correction_rms vs run
×10^3
100
80
60
40
20
χ² / ndf 2.393e+05 / 88
p0 642.1 ± 0.5288

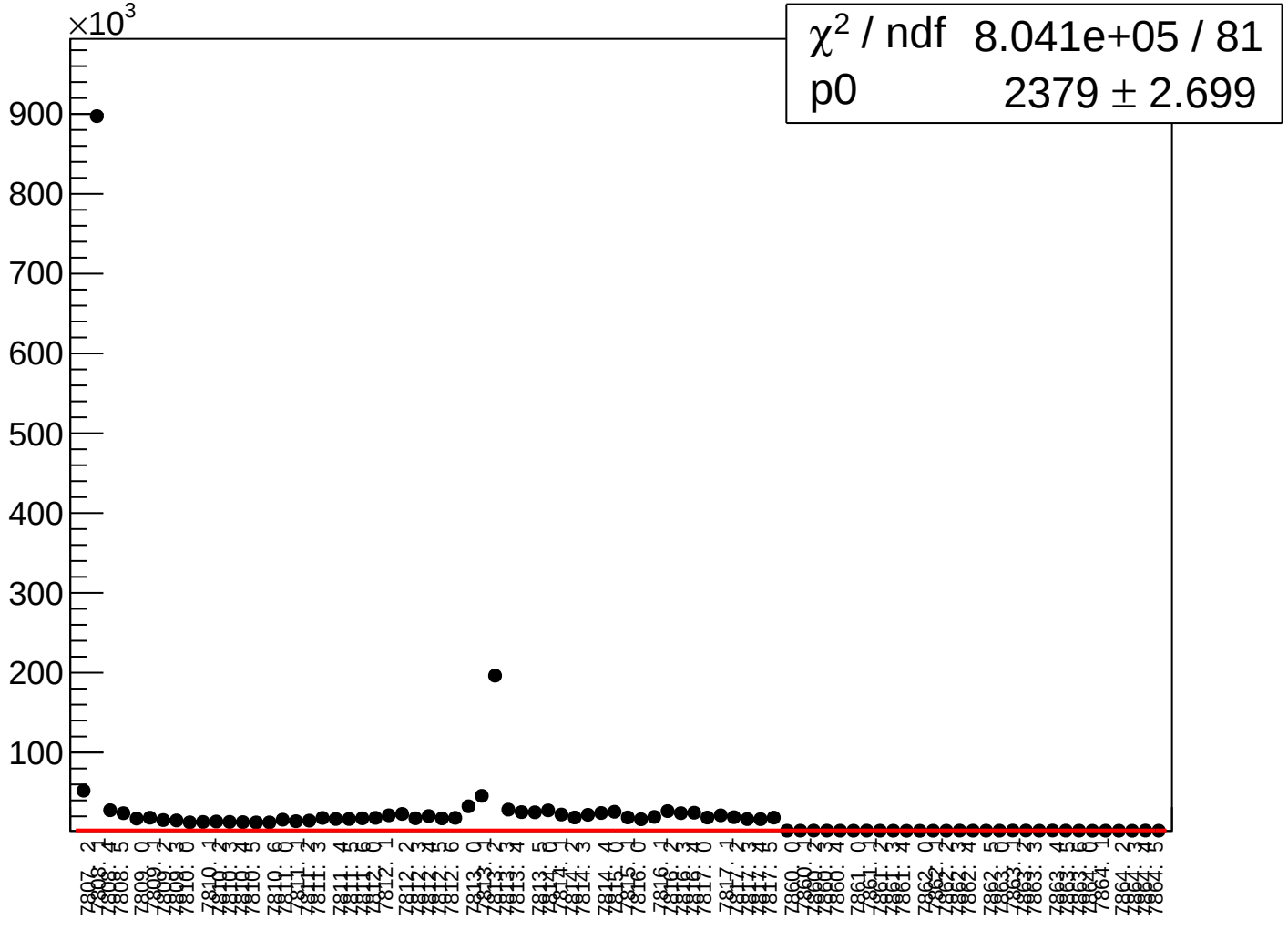

asym_left_avg_mean vs run
χ² / ndf 78.62 / 79
p0 −1077 ± 4030
pull
Entries 80
Mean 27.22
Std Dev 28.72

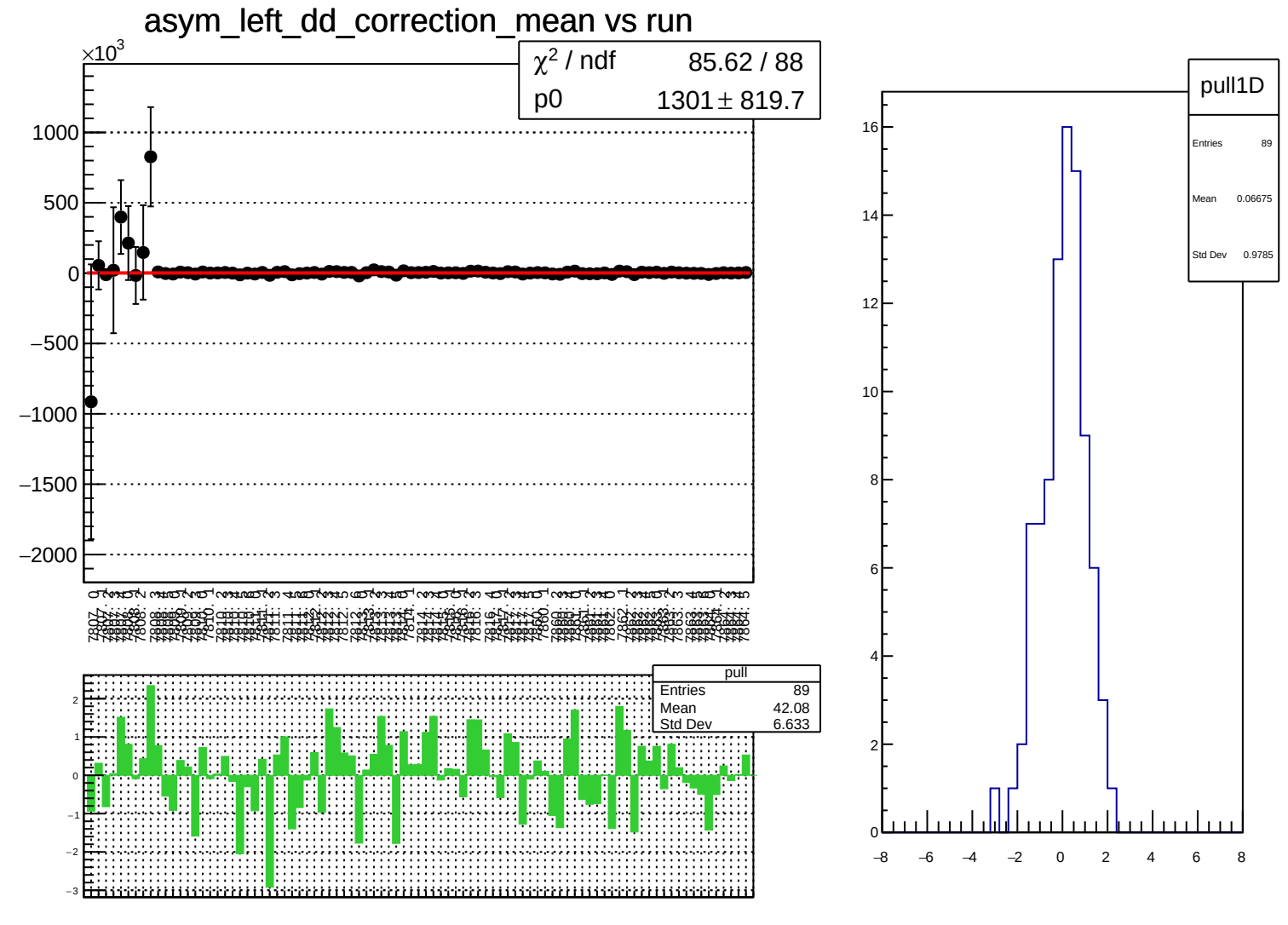

pull1D
Entries 80
Mean 0.1095
Std Dev 0.9853

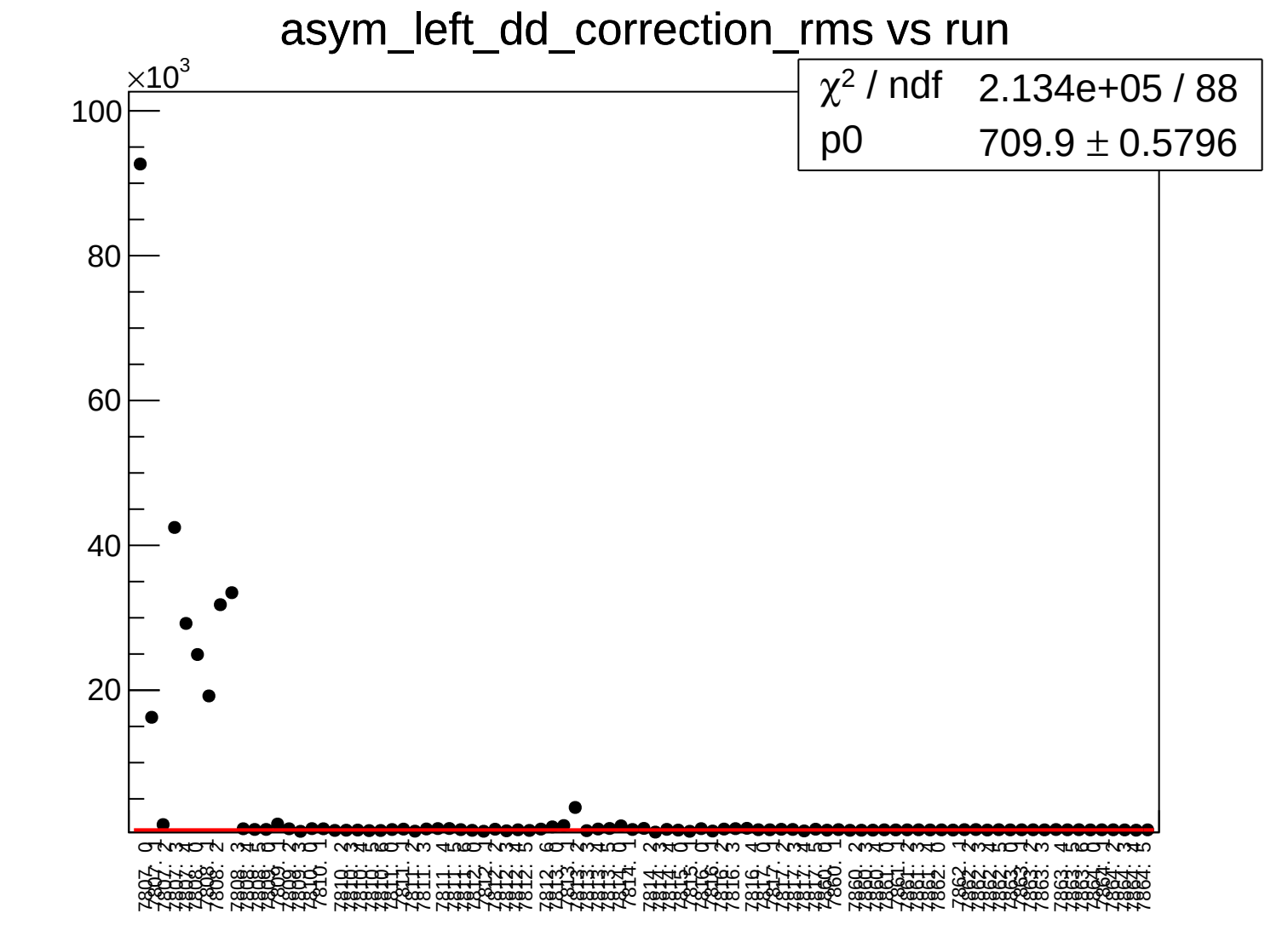

asym_left_avg_rms vs run
×10^3
χ^2 / ndf 7.916e+05 / 81
p0 2531 ± 2.85
900
800
700
600
500
400
300
200
100

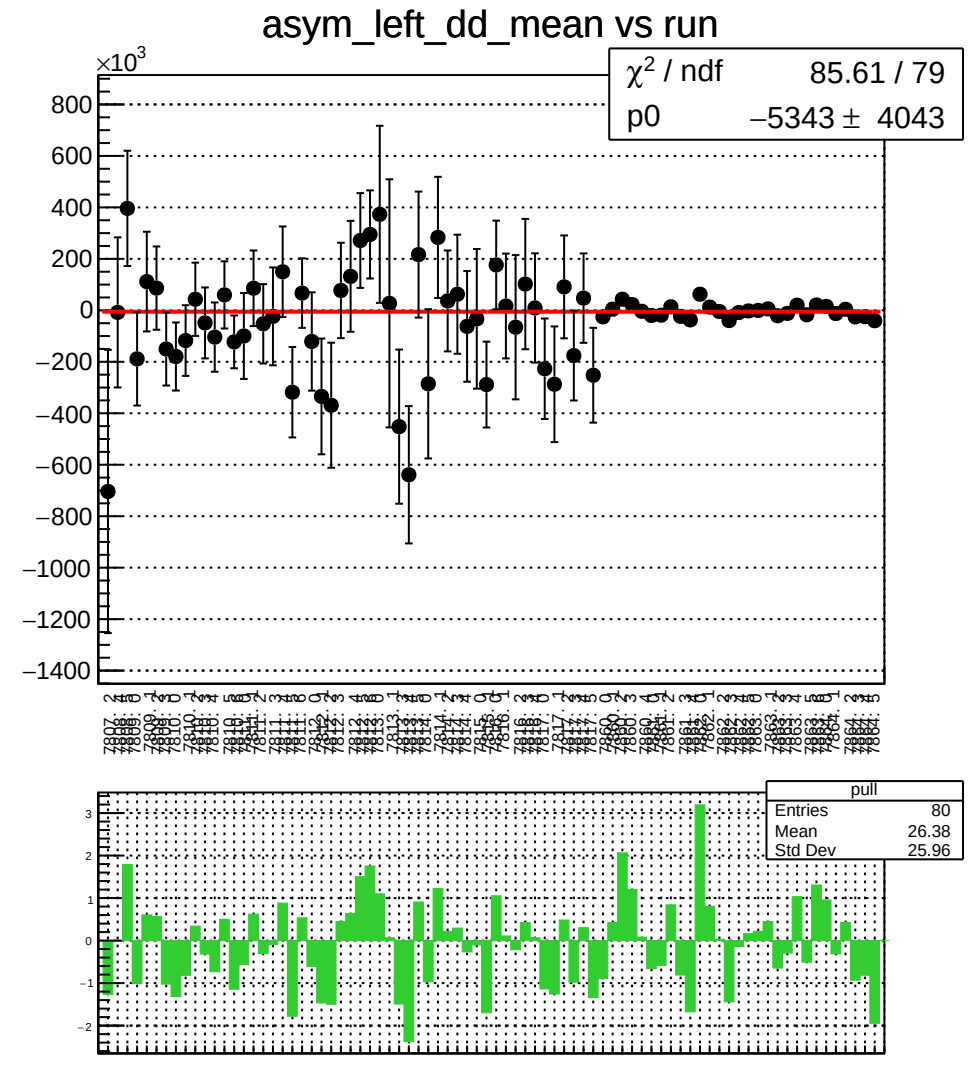

reg_asym_left_dd_mean vs run
×10^3
χ² / ndf 86.63 / 79
p0 −4126 ± 3818
pull
Entries 80
Mean 26.83
Std Dev 27.33

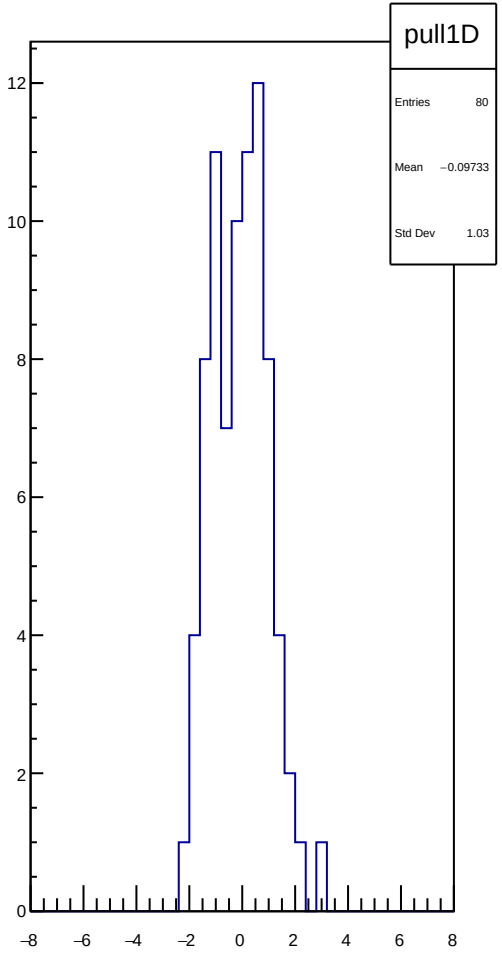

pull1D
Entries 80
Mean −0.09827
Std Dev 1.036

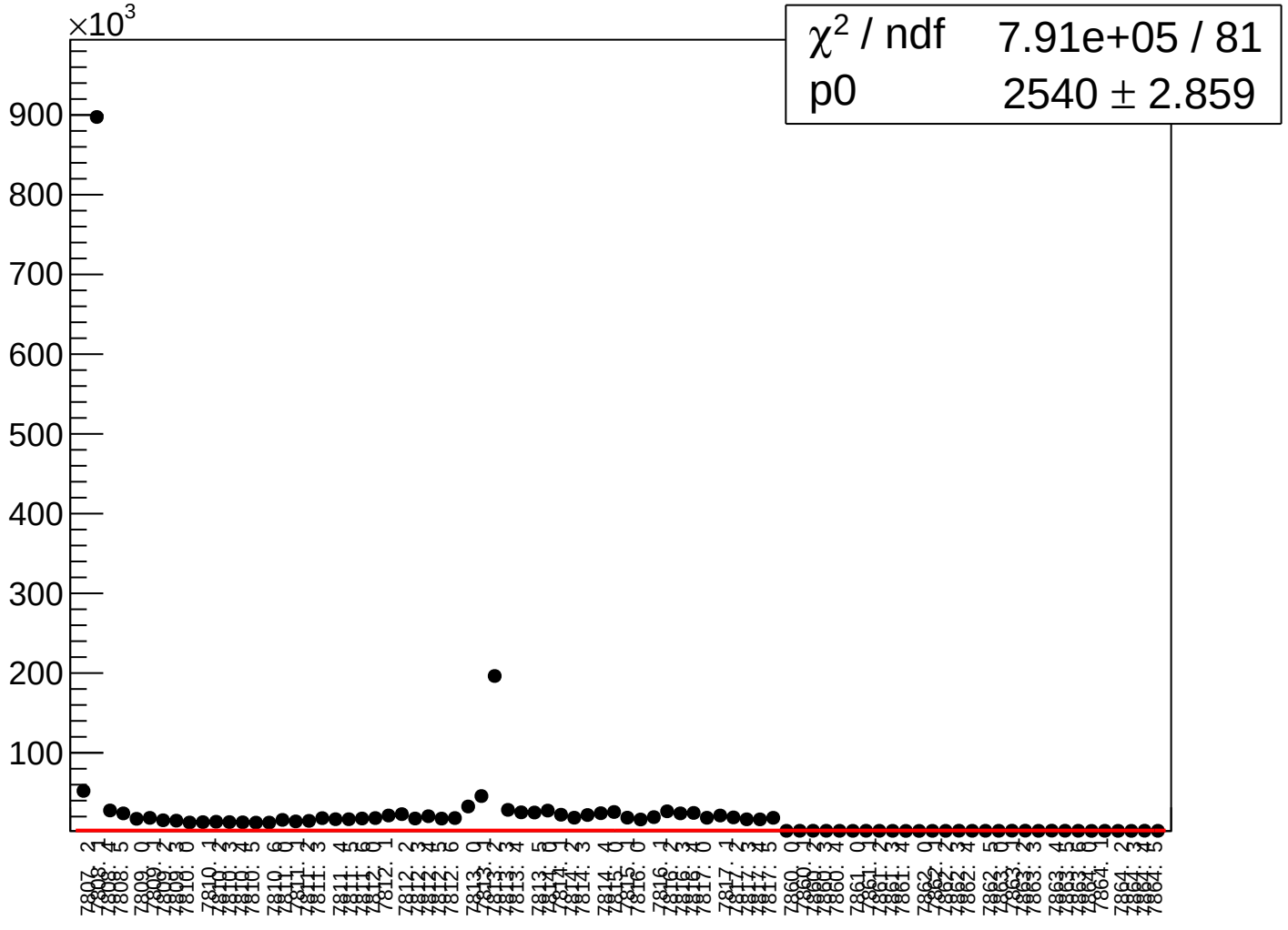

reg_asym_left_dd_rms vs run
×10^3
χ^2 / ndf 8.041e+05 / 81
p0 2379 ± 2.699
900
800
700
600
500
400
300
200
100

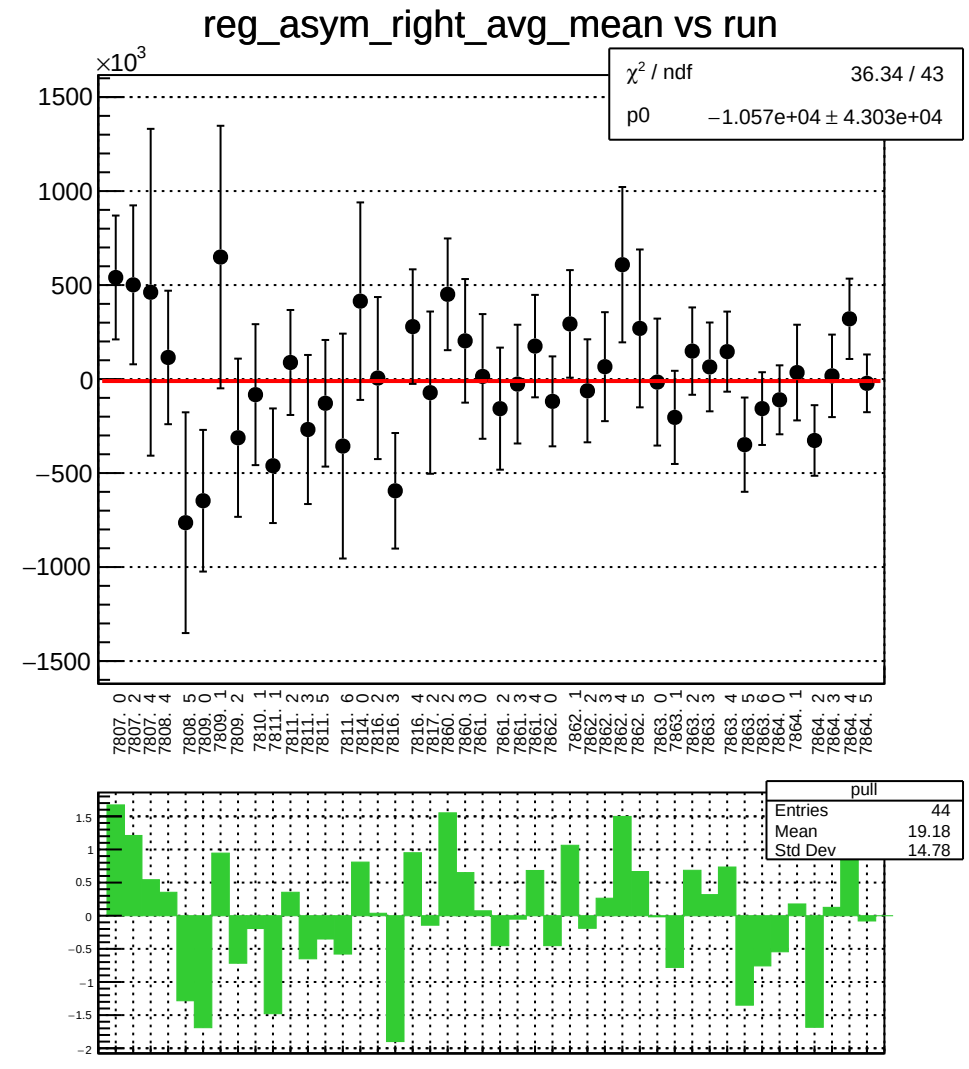

asym_left_dd_correction_mean vs run
χ^2 / ndf 85.62 / 88
p0 1301 ± 819.7
×10^3
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 89
Mean 42.08
Std Dev 6.633
pull1D
Entries 89
Mean 0.06675
Std Dev 0.9785

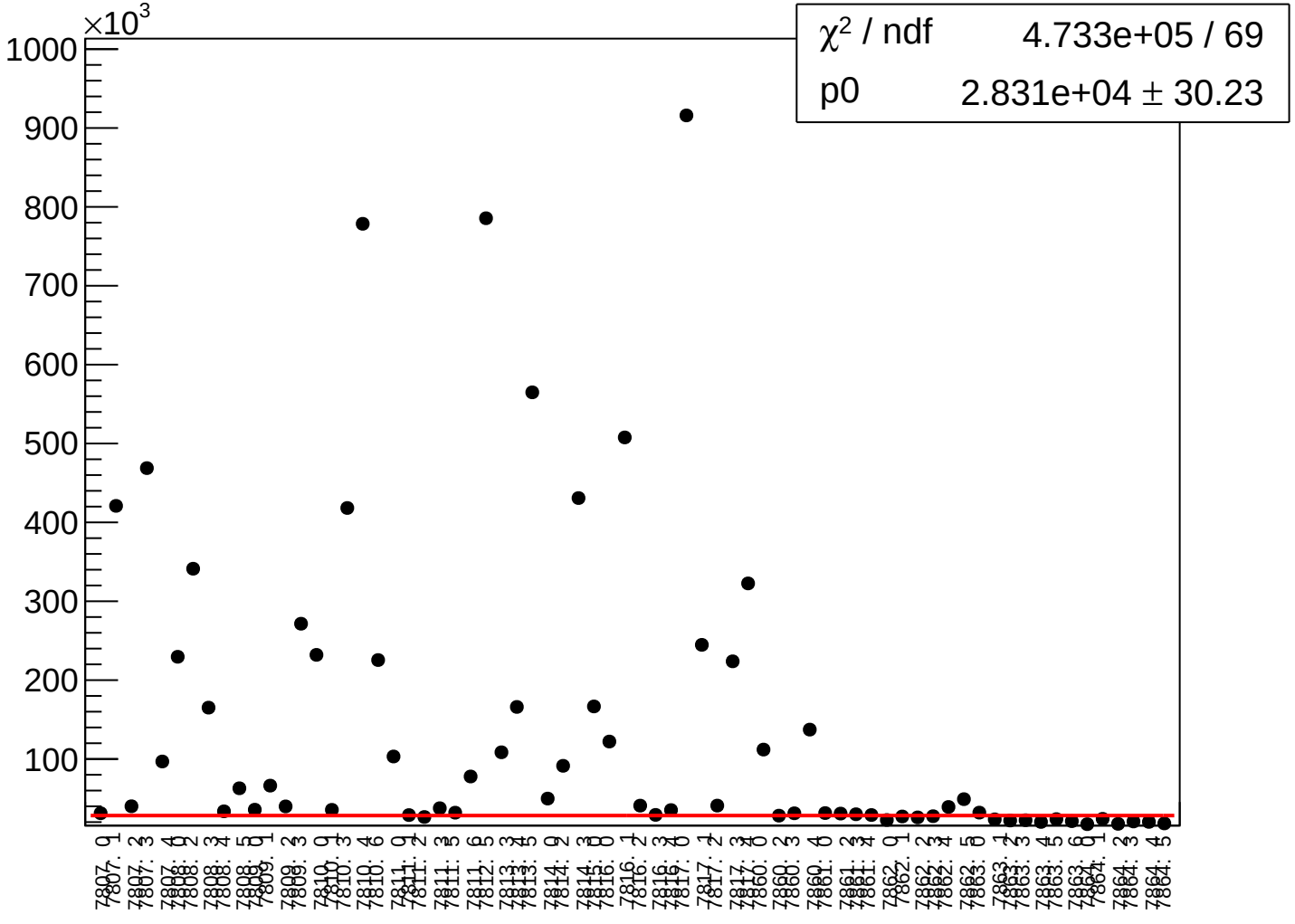

asym_left_dd_correction_rms vs run
×10^3
100
80
60
40
20
χ² / ndf 2.134e+05 / 88
p0 709.9 ± 0.5796

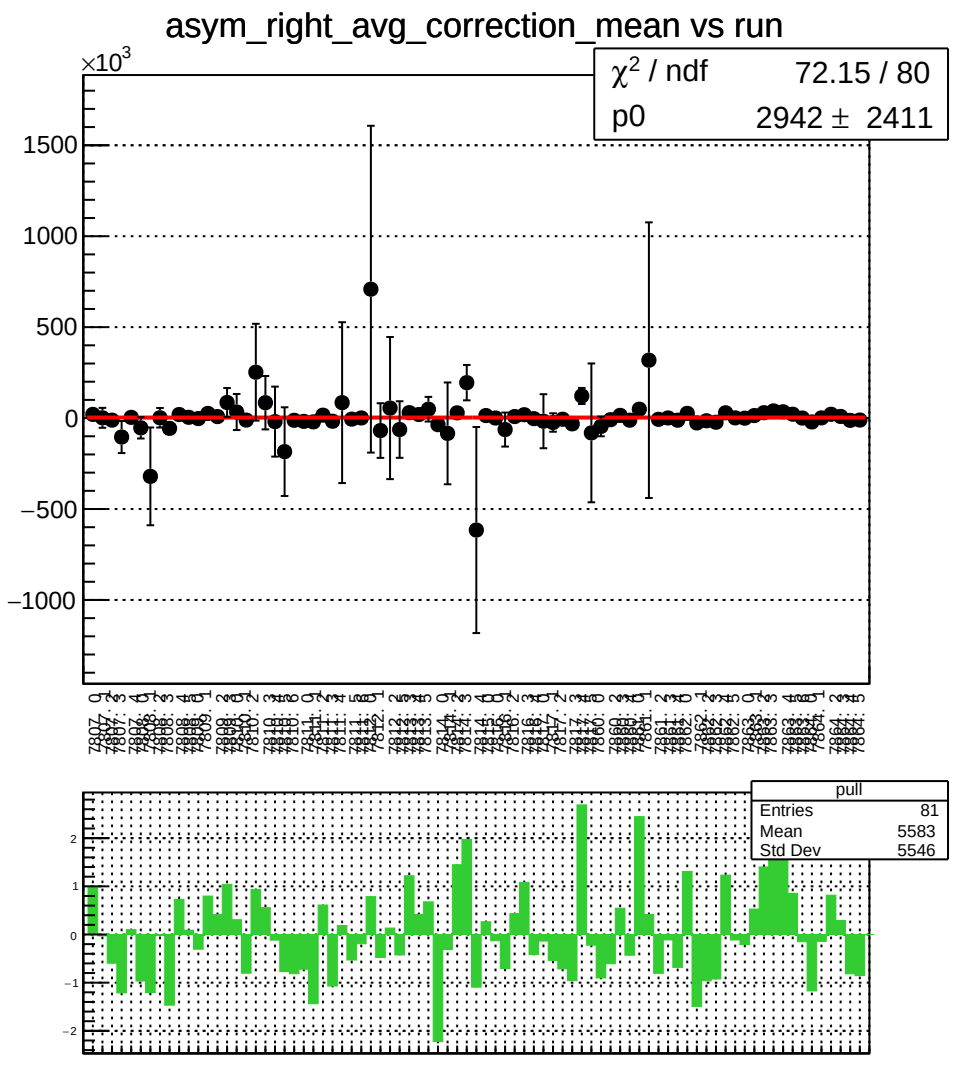

asym_left_dd_mean vs run
×10^3
χ² / ndf 85.61 / 79
p0 −5343 ± 4043
pull
Entries 80
Mean 26.38
Std Dev 25.96

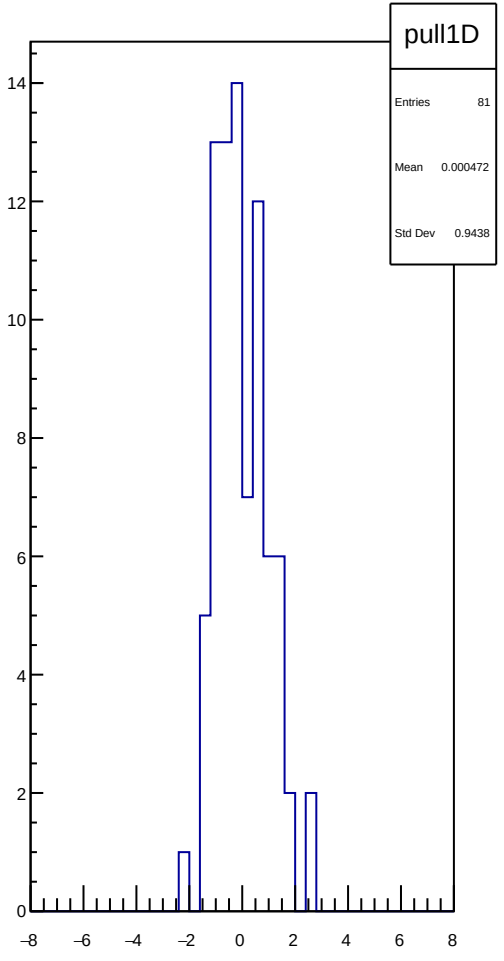

pull1D
Entries 80
Mean −0.09733
Std Dev 1.03

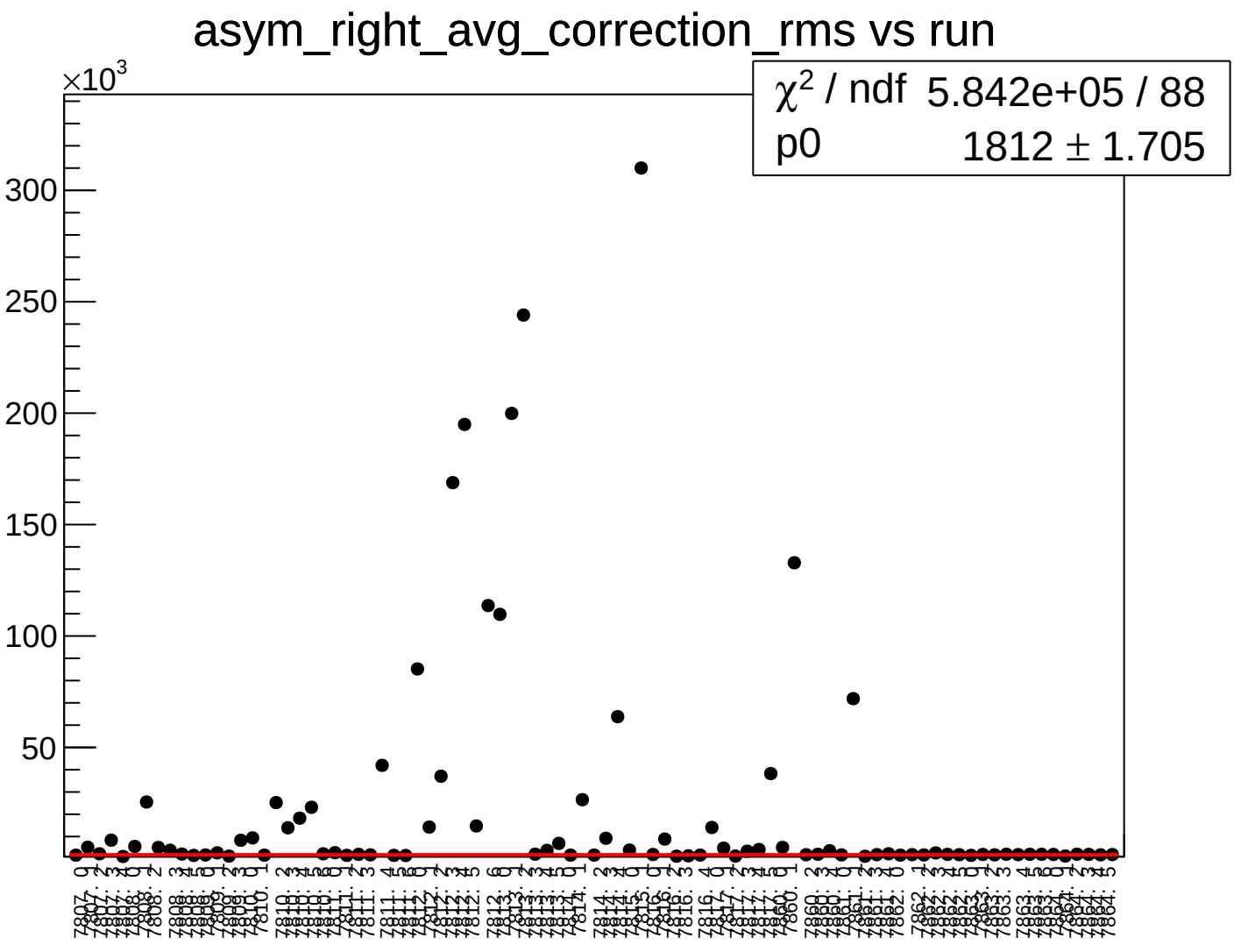

asym_left_dd_rms vs run
×10^3
χ^2 / ndf 7.91e+05 / 81
p0 2540 ± 2.859
900
800
700
600
500
400
300
200
100

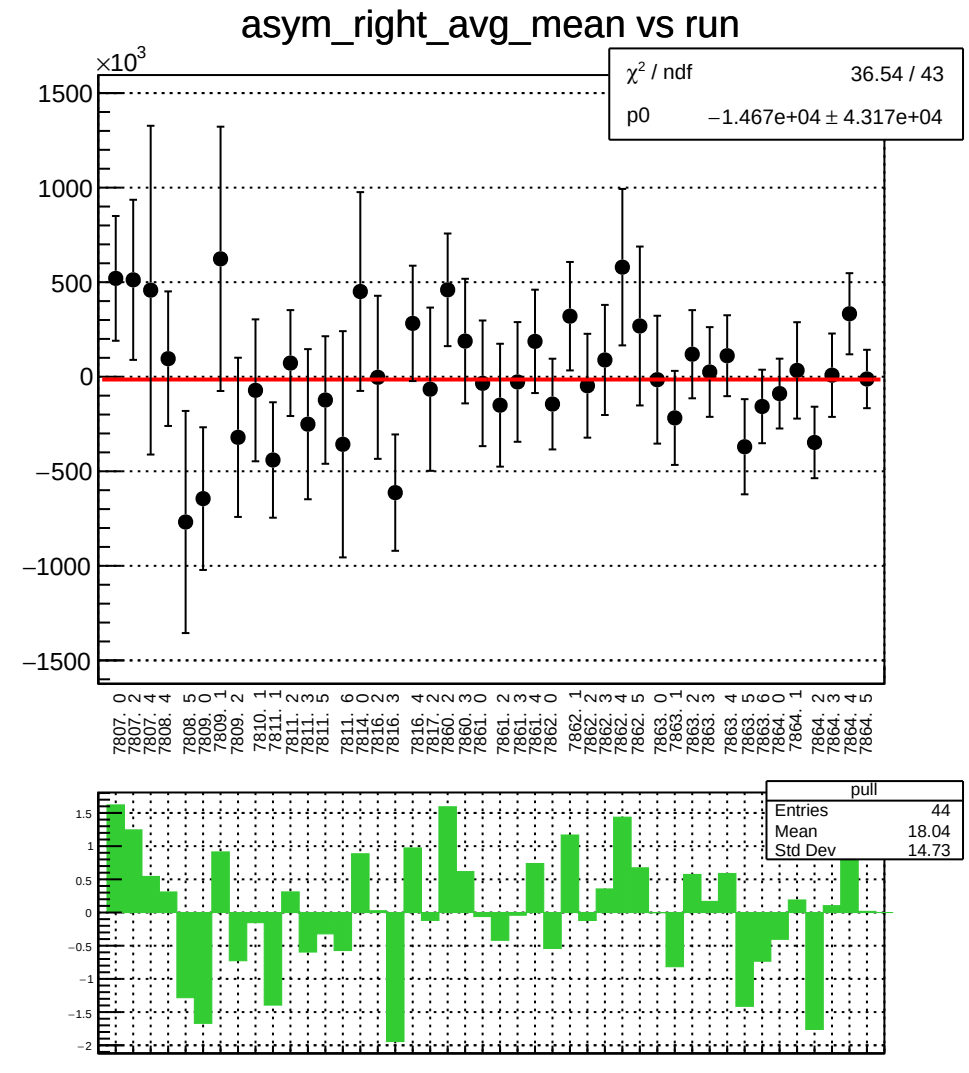

reg_asym_right_avg_mean vs run
×10^3
χ² / ndf 36.34 / 43
p0 −1.057e+04 ± 4.303e+04
1500
1000
500
0
−500
−1000
−1500
7807. 0
7807. 2
7807. 4
7808. 4
7808. 5
7809. 0
7809. 1
7809. 2
7810. 1
7811. 1
7811. 2
7811. 3
7811. 5
7811. 6
7814. 0
7816. 2
7816. 3
7816. 4
7817. 2
7860. 3
7860. 0
7861. 0
7861. 2
7861. 3
7861. 4
7862. 0
7862. 1
7862. 2
7862. 3
7862. 4
7862. 5
7863. 0
7863. 1
7863. 2
7863. 3
7863. 4
7863. 5
7863. 6
7864. 0
7864. 1
7864. 2
7864. 3
7864. 4
7864. 5
pull
Entries 44
Mean 19.18
Std Dev 14.78
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean 0.03594
Std Dev 0.9081
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

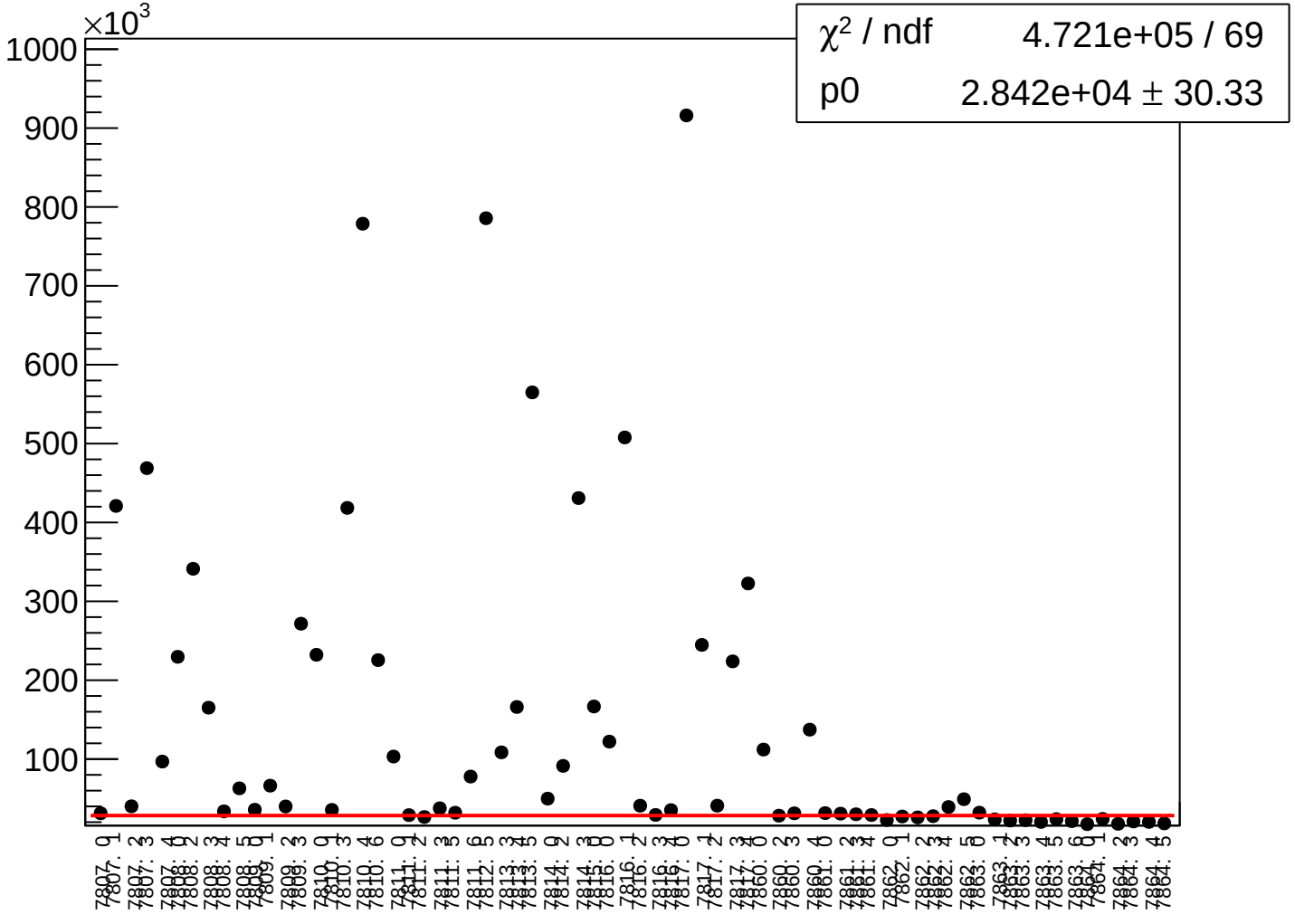

reg_asym_right_avg_rms vs run
×10^3
χ² / ndf 4.733e+05 / 69
p0 2.831e+04 ± 30.23
1000
900
800
700
600
500
400
300
200
100

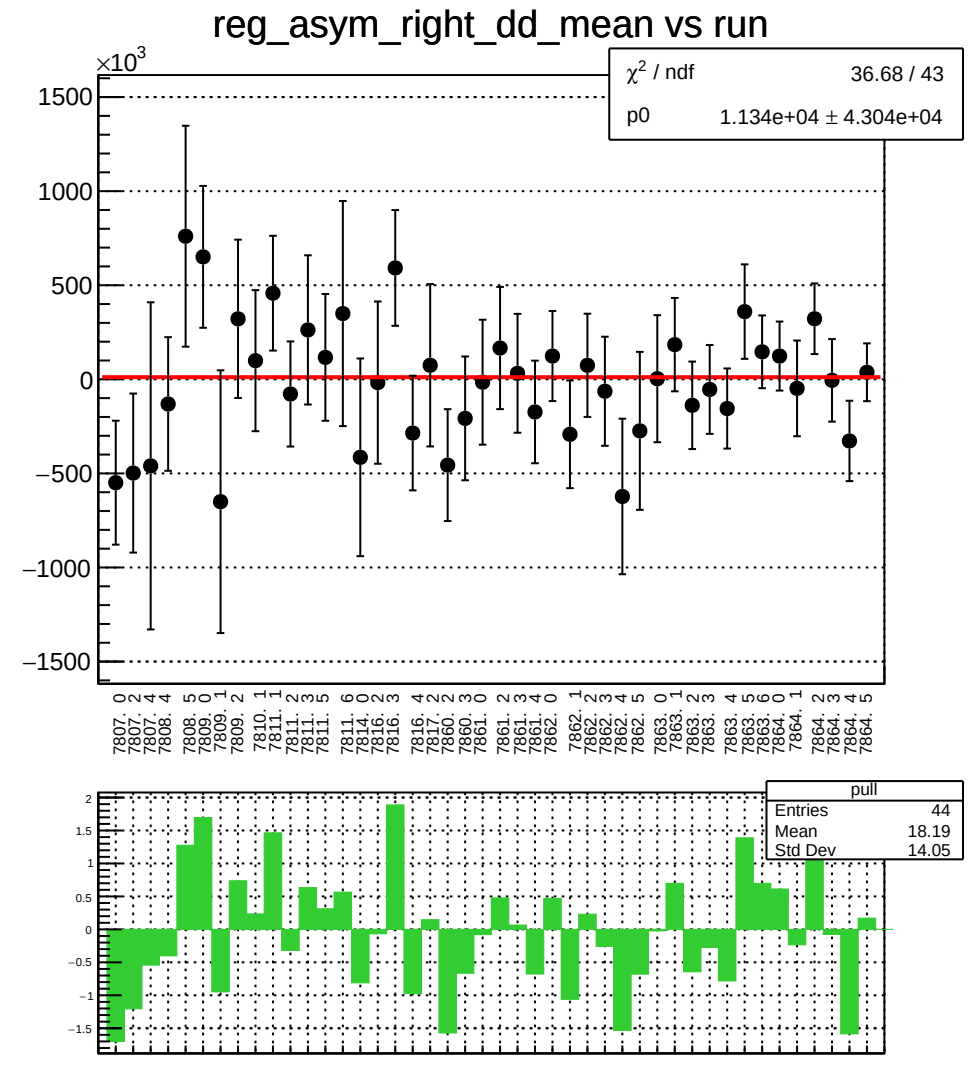

asym_right_avg_correction_mean vs run
×10^3
χ² / ndf 72.15 / 80
p0 2942 ± 2411
1500
1000
500
0
−500
−1000
pull
Entries 81
Mean 5583
Std Dev 5546
2
1
0
−1
−2

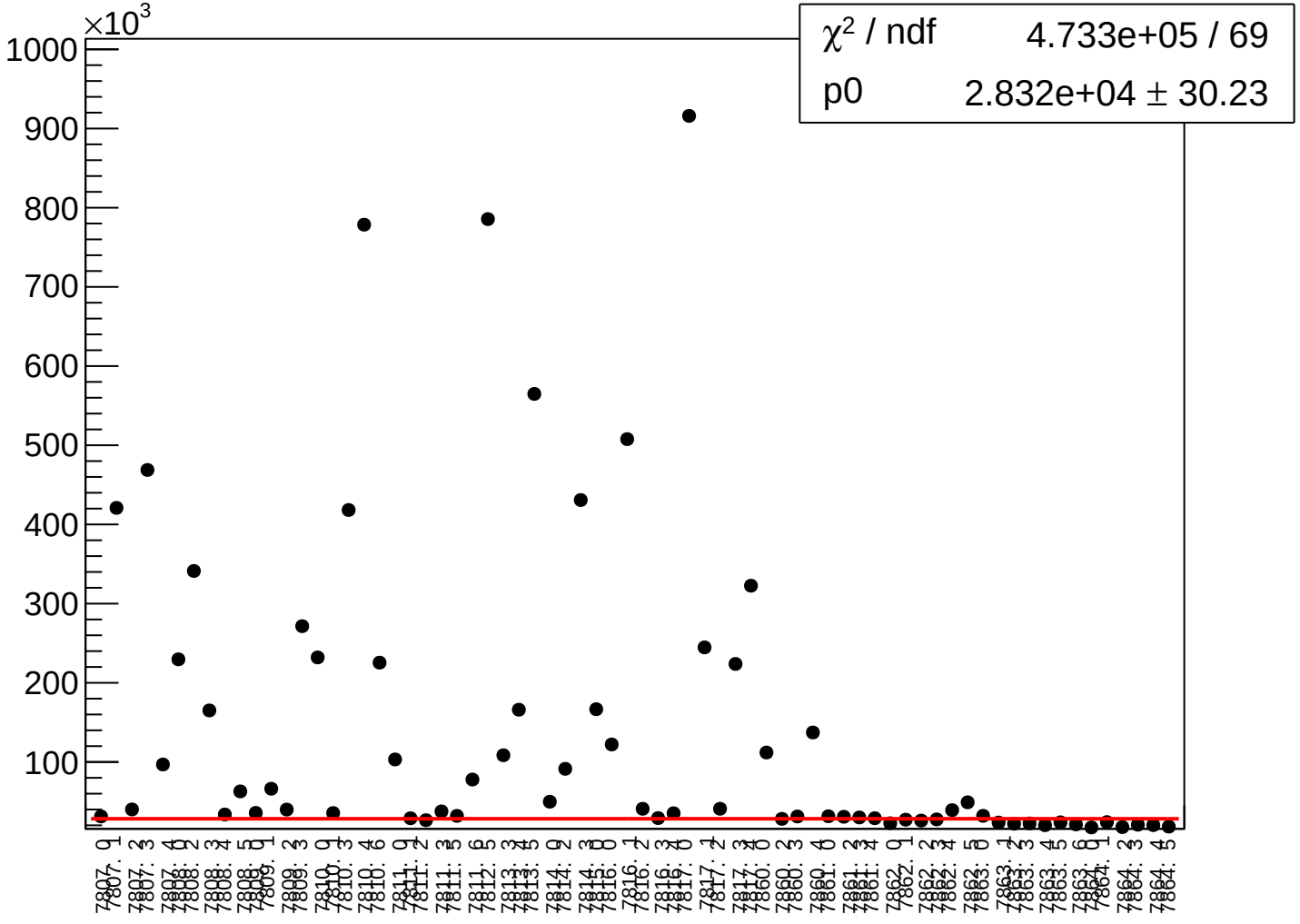

pull1D
Entries 81
Mean 0.000472
Std Dev 0.9438
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

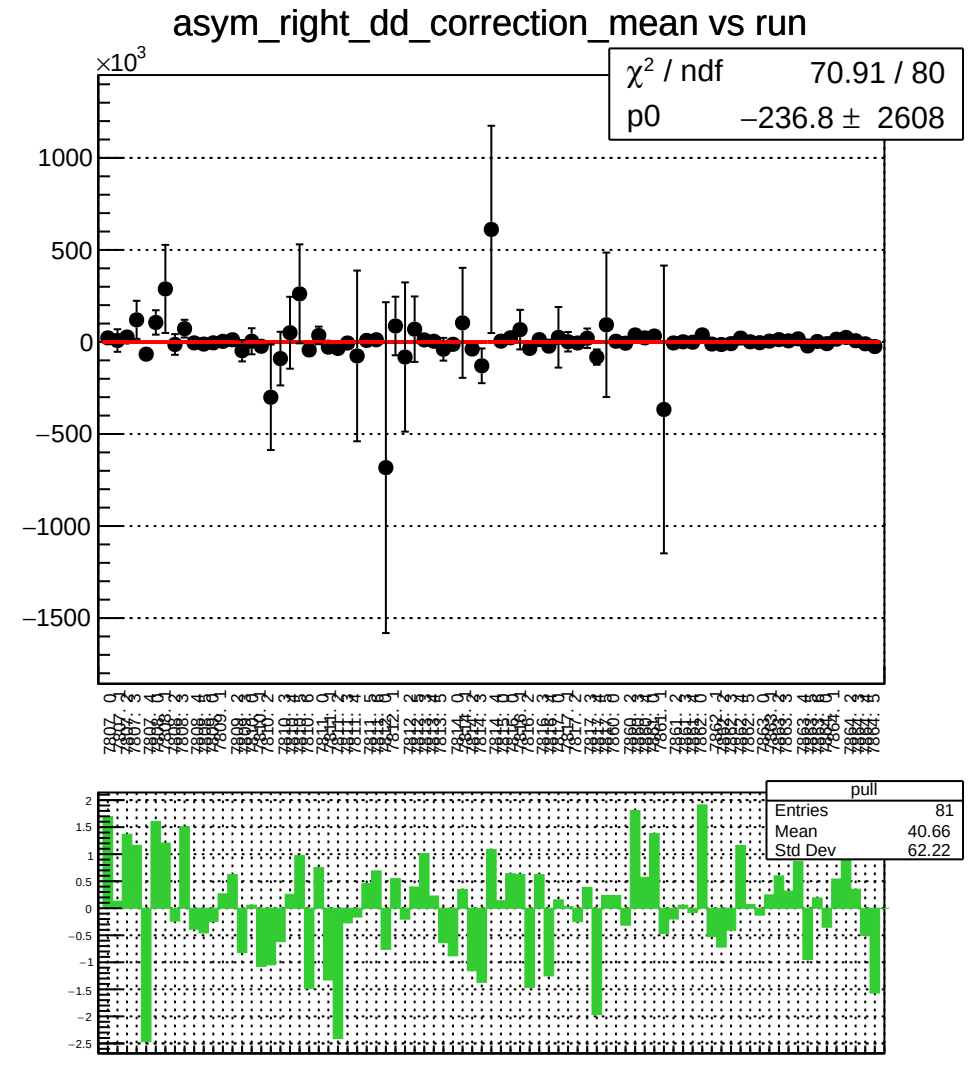

asym_right_avg_correction_rms vs run
×10^3
χ^2 / ndf 5.842e+05 / 88
p0 1812 ± 1.705
300
250
200
150
100
50

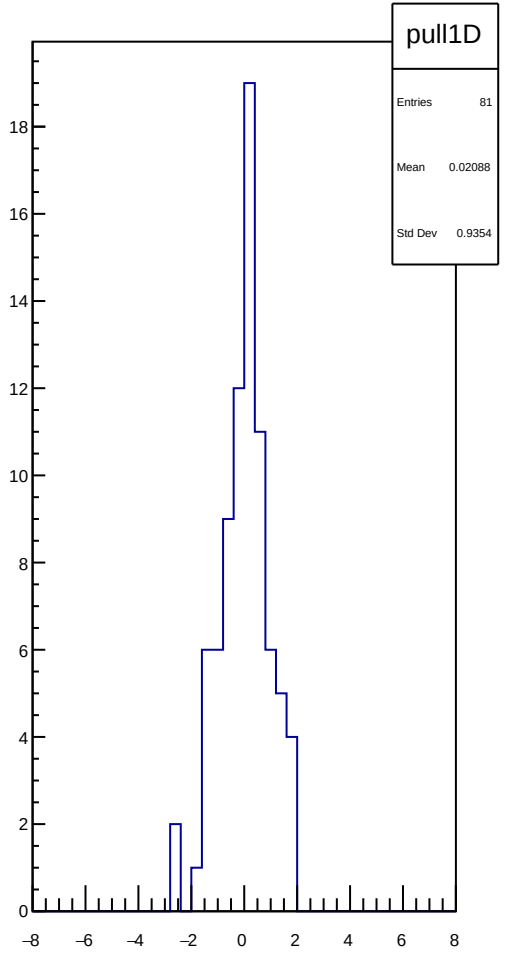

asym_right_avg_mean vs run
×10^3
χ² / ndf 36.54 / 43
p0 −1.467e+04 ± 4.317e+04
1500
1000
500
0
−500
−1000
−1500
7807. 0
7807. 2
7807. 4
7808. 4
7808. 5
7809. 0
7809. 1
7809. 2
7810. 1
7811. 1
7811. 2
7811. 3
7811. 5
7811. 6
7814. 0
7816. 2
7816. 3
7816. 4
7817. 2
7860. 3
7861. 0
7861. 2
7861. 3
7861. 4
7862. 0
7862. 1
7862. 2
7862. 3
7862. 4
7862. 5
7863. 0
7863. 1
7863. 2
7863. 3
7863. 4
7863. 5
7863. 6
7864. 0
7864. 1
7864. 2
7864. 3
7864. 4
7864. 5
pull
Entries 44
Mean 18.04
Std Dev 14.73
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean 0.0359
Std Dev 0.9105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

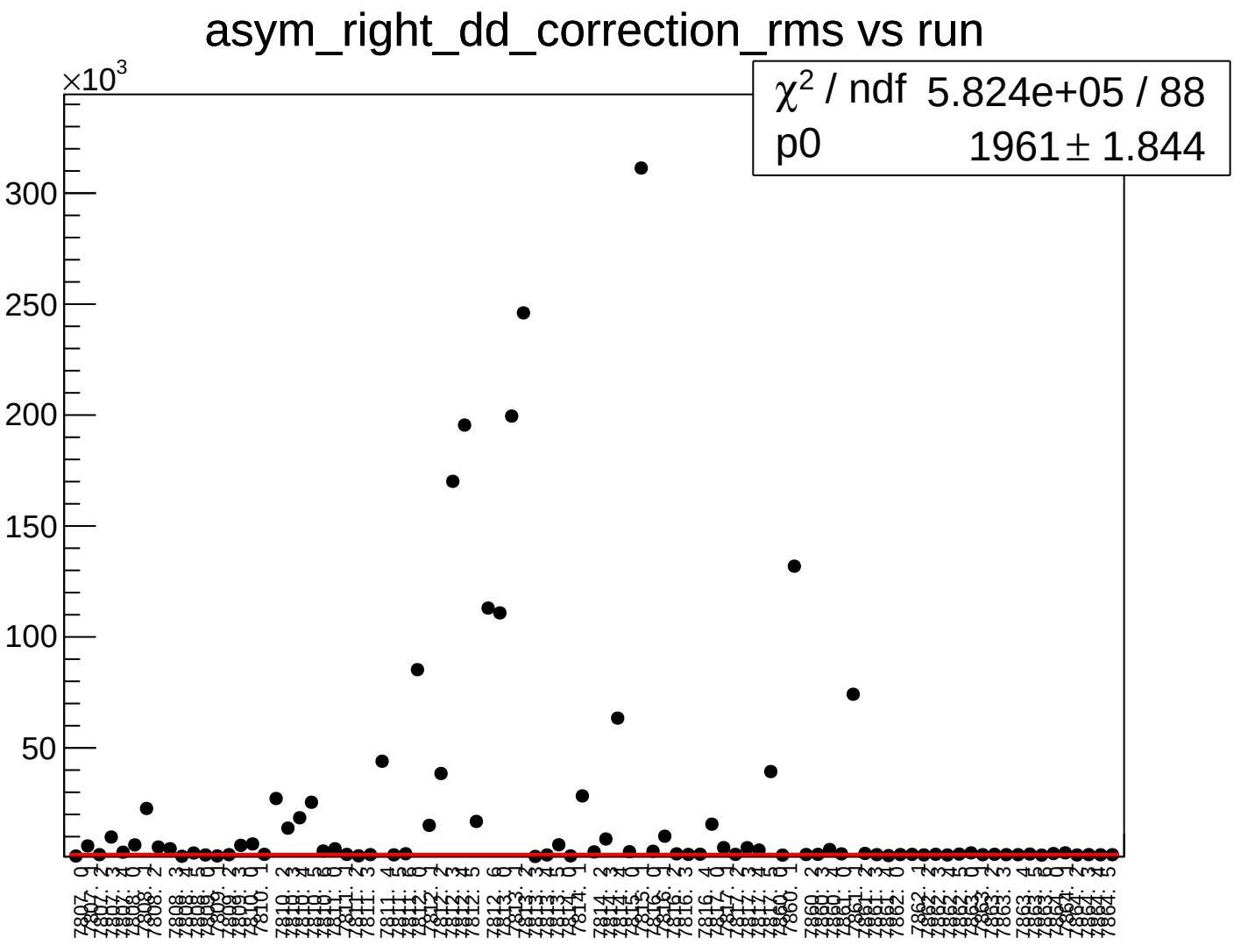

asym_right_avg_rms vs run
×10^3
χ² / ndf 4.721e+05 / 69
p0 2.842e+04 ± 30.33
1000
900
800
700
600
500
400
300
200
100

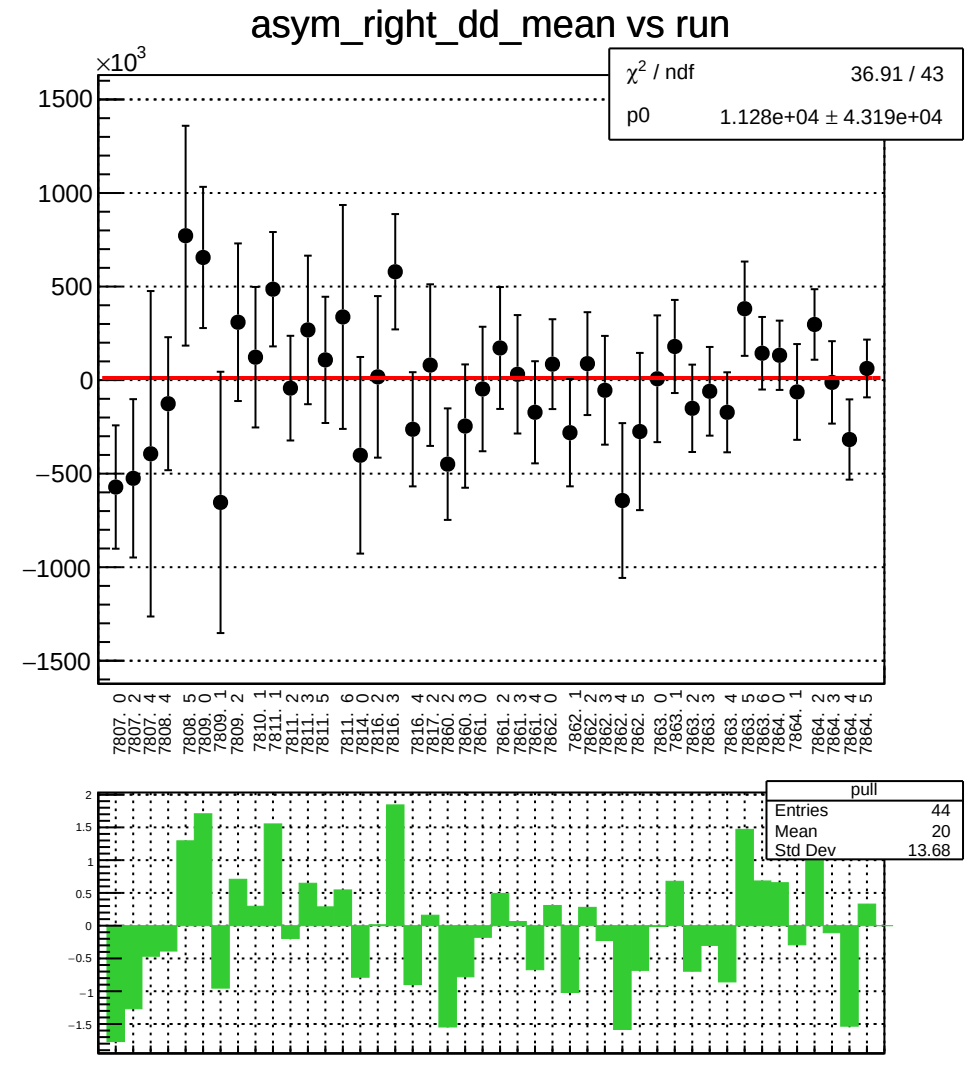

reg_asym_right_dd_mean vs run
×10^3
χ² / ndf 36.68 / 43
p0 1.134e+04 ± 4.304e+04
1500
1000
500
0
−500
−1000
−1500
7807. 0
7807. 2
7807. 4
7808. 4
7808. 5
7809. 0
7809. 1
7809. 2
7810. 1
7811. 1
7811. 2
7811. 3
7811. 5
7811. 6
7814. 0
7816. 2
7816. 3
7816. 4
7817. 2
7860. 3
7860. 0
7861. 0
7861. 2
7861. 3
7861. 4
7862. 0
7862. 1
7862. 2
7862. 3
7862. 4
7862. 5
7863. 0
7863. 1
7863. 2
7863. 3
7863. 4
7863. 5
7863. 6
7864. 0
7864. 1
7864. 2
7864. 3
7864. 4
7864. 5
pull
Entries 44
Mean 18.19
Std Dev 14.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean −0.03861
Std Dev 0.9122
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

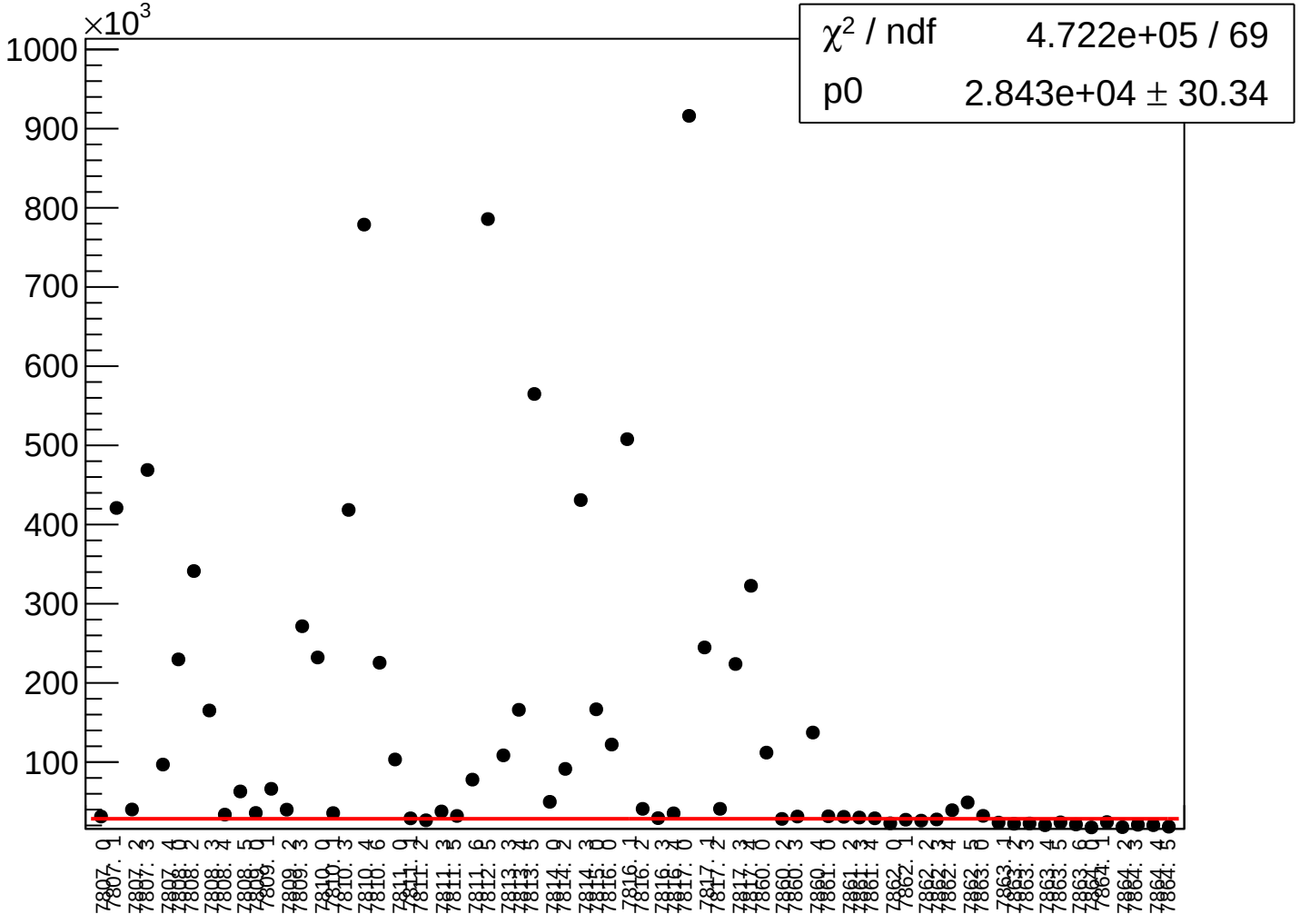

reg_asym_right_dd_rms vs run
×10^3
χ² / ndf 4.733e+05 / 69
p0 2.832e+04 ± 30.23
1000
900
800
700
600
500
400
300
200
100

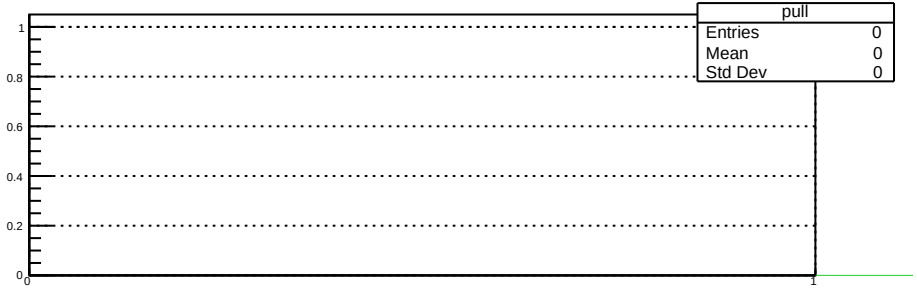

asym_right_dd_correction_mean vs run
×10^3
χ² / ndf 70.91 / 80
p0 −236.8 ± 2608
1000
500
0
−500
−1000
−1500
pull
Entries 81
Mean 40.66
Std Dev 62.22
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

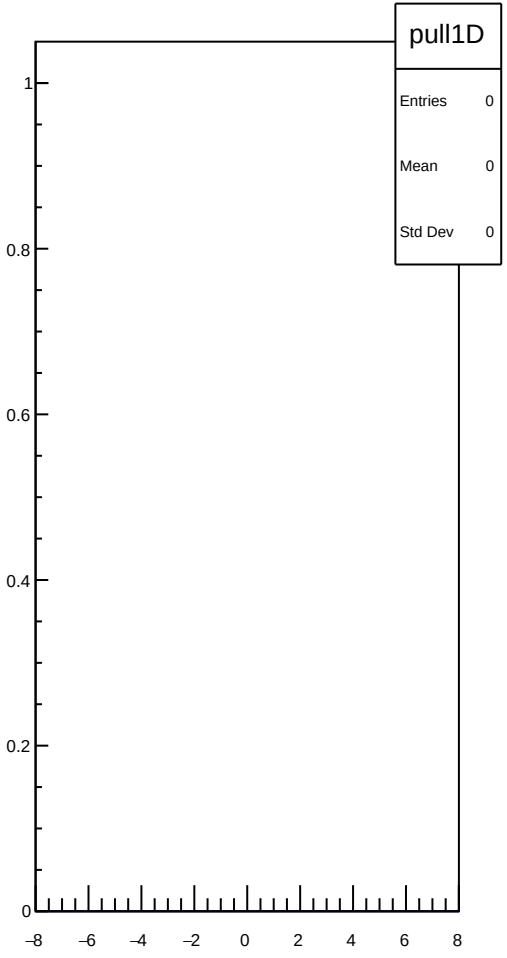

pull1D
Entries 81
Mean 0.02088
Std Dev 0.9354
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

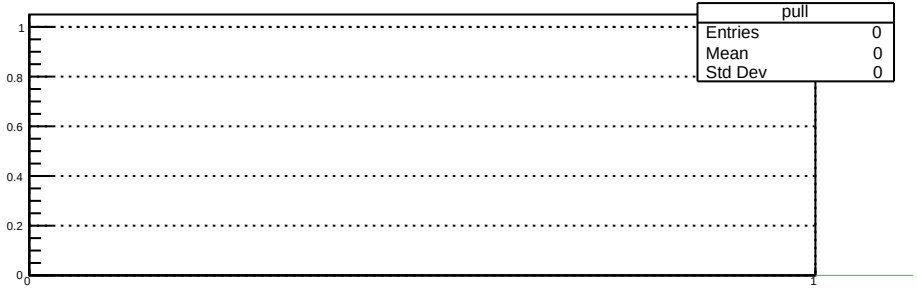

asym_right_dd_correction_rms vs run
×10^3
χ^2 / ndf 5.824e+05 / 88
p0 1961 ± 1.844
300
250
200
150
100
50

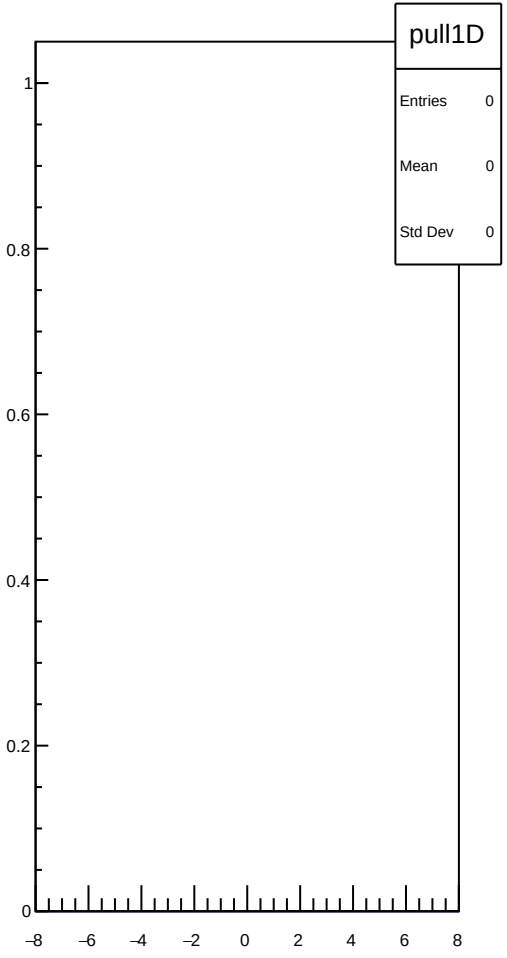

asym_right_dd_mean vs run
×10^3
χ² / ndf 36.91 / 43
p0 1.128e+04 ± 4.319e+04
1500
1000
500
0
−500
−1000
−1500
7807. 0
7807. 2
7807. 4
7808. 4
7808. 5
7809. 0
7809. 1
7809. 2
7810. 1
7811. 1
7811. 2
7811. 3
7811. 5
7811. 6
7814. 0
7816. 2
7816. 3
7816. 4
7817. 2
7860. 3
7860. 0
7861. 0
7861. 2
7861. 3
7861. 4
7862. 0
7862. 1
7862. 2
7862. 3
7862. 4
7862. 5
7863. 0
7863. 1
7863. 2
7863. 3
7863. 4
7863. 5
7863. 6
7864. 0
7864. 1
7864. 2
7864. 3
7864. 4
7864. 5
pull
Entries 44
Mean 20
Std Dev 13.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean −0.0379
Std Dev 0.9151
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

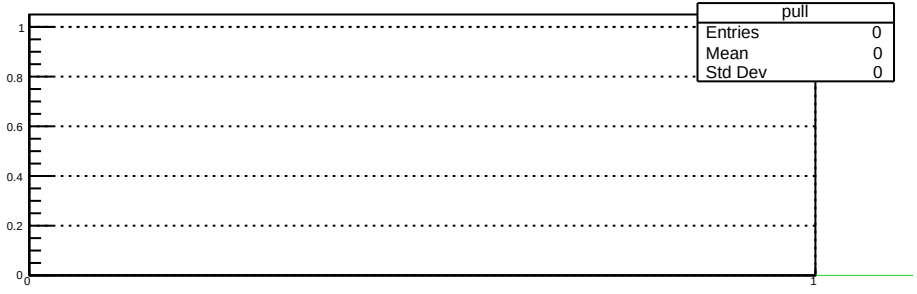

asym_right_dd_rms vs run
χ² / ndf 4.722e+05 / 69
p0 2.843e+04 ± 30.34
×10³
1000
900
800
700
600
500
400
300
200
100

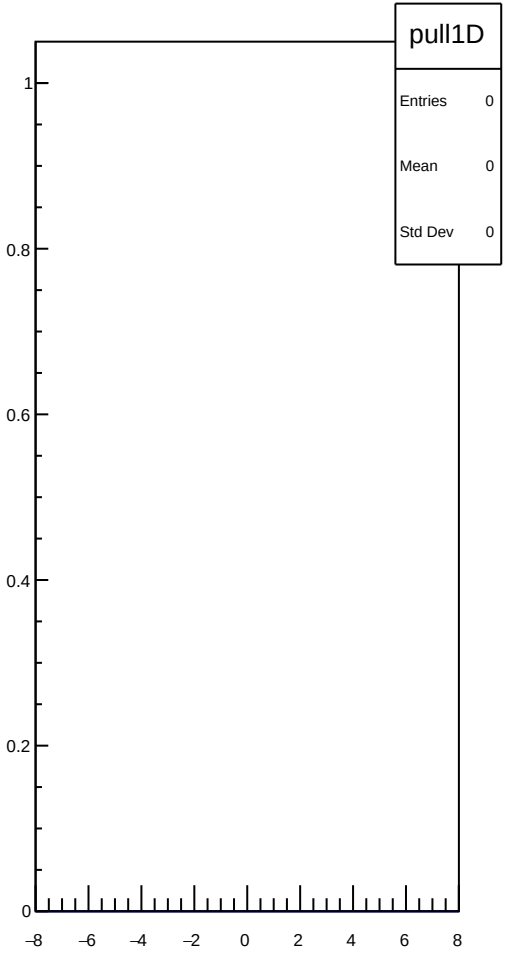

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

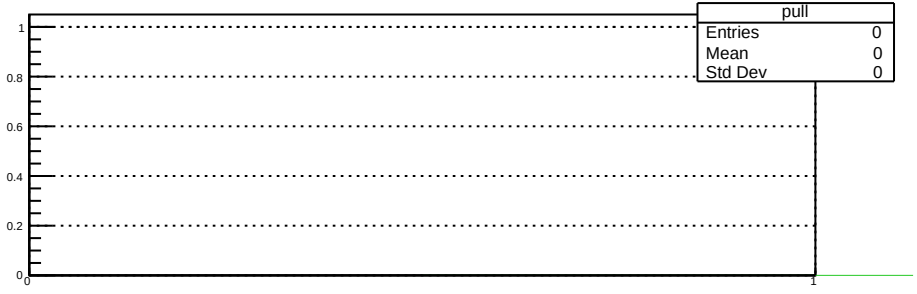

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

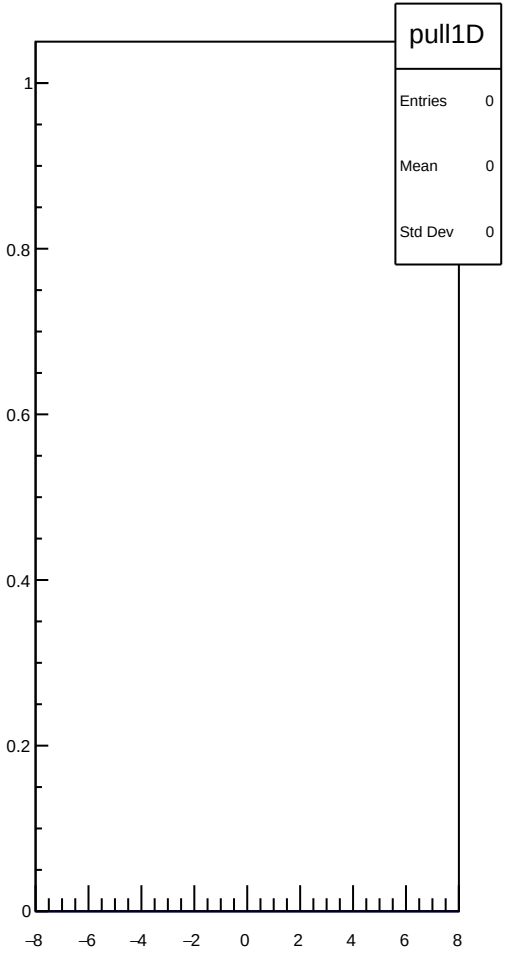

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

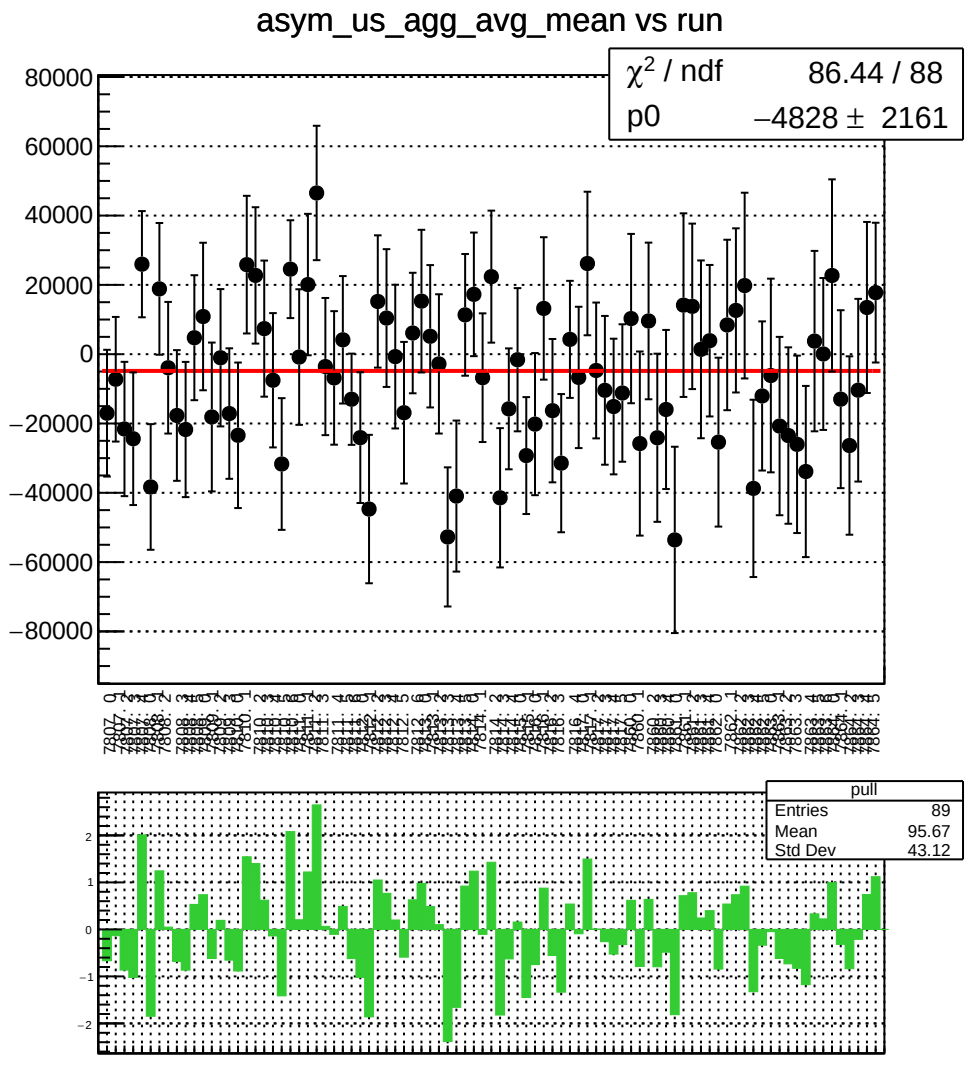

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

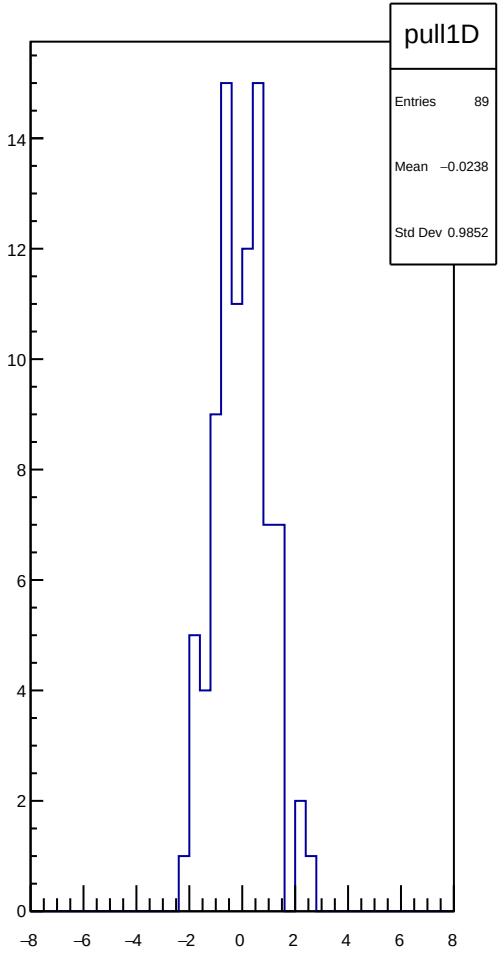

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

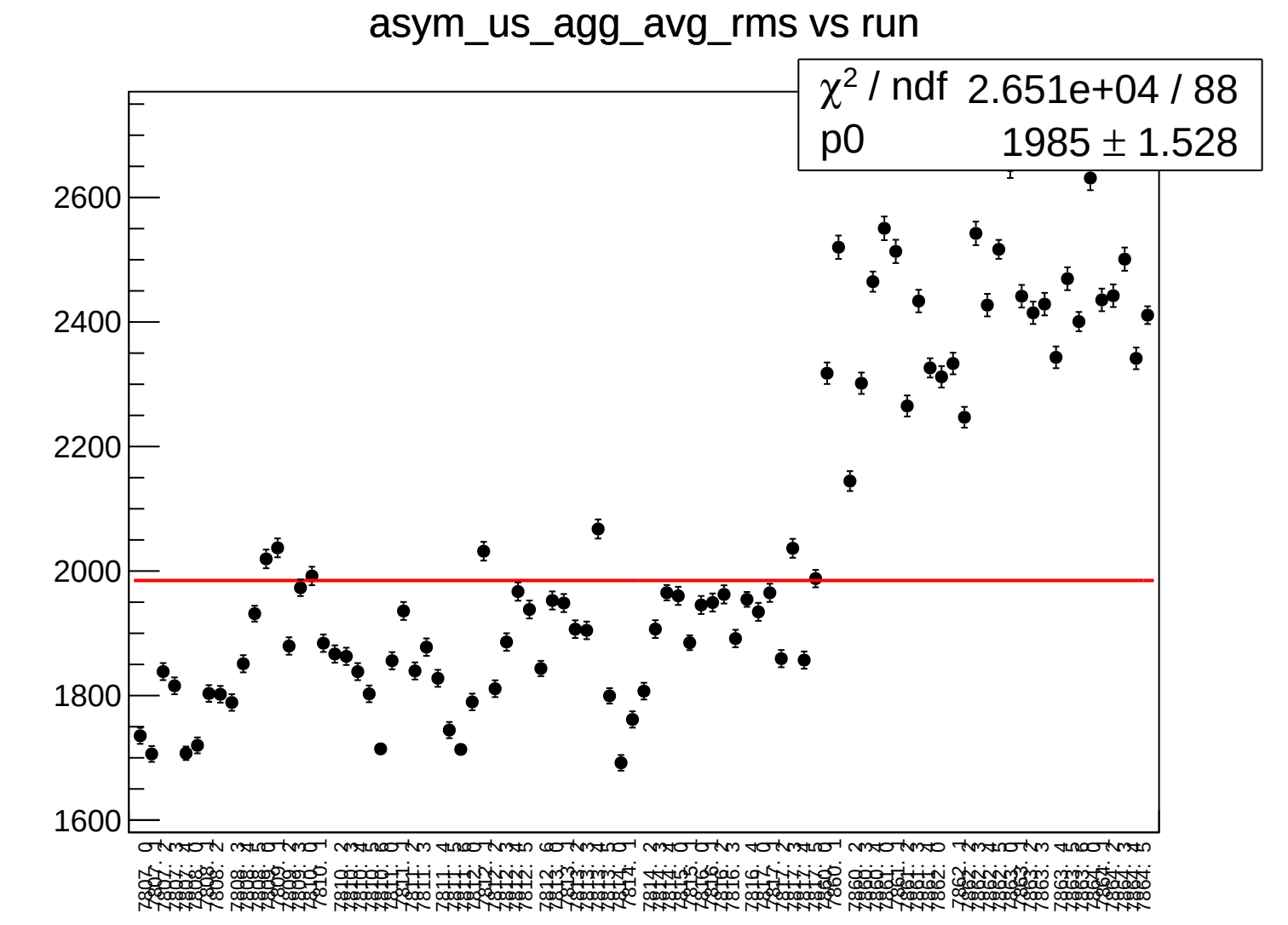

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

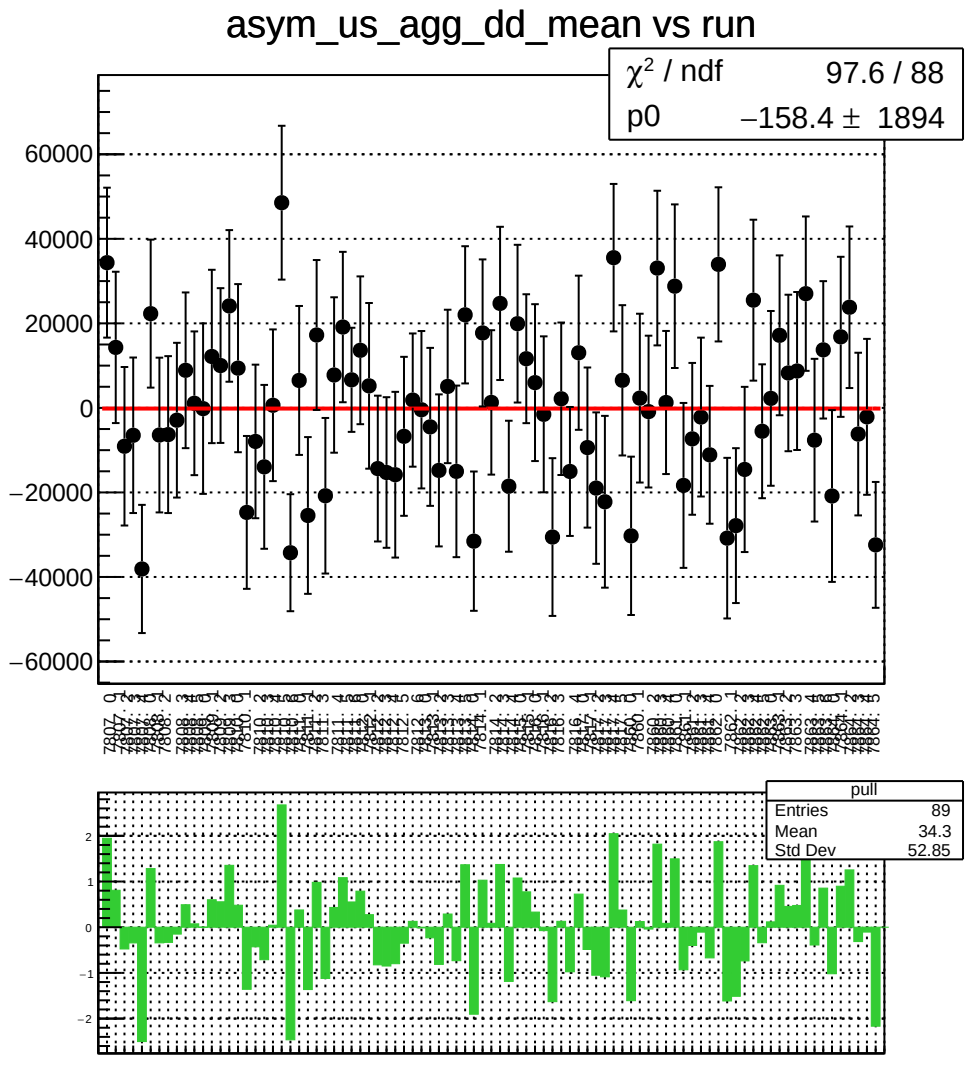

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

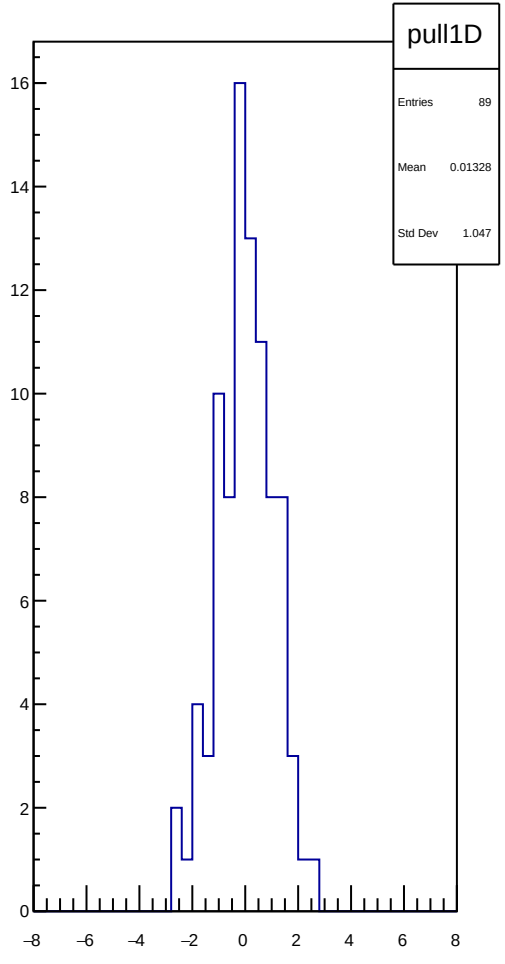

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

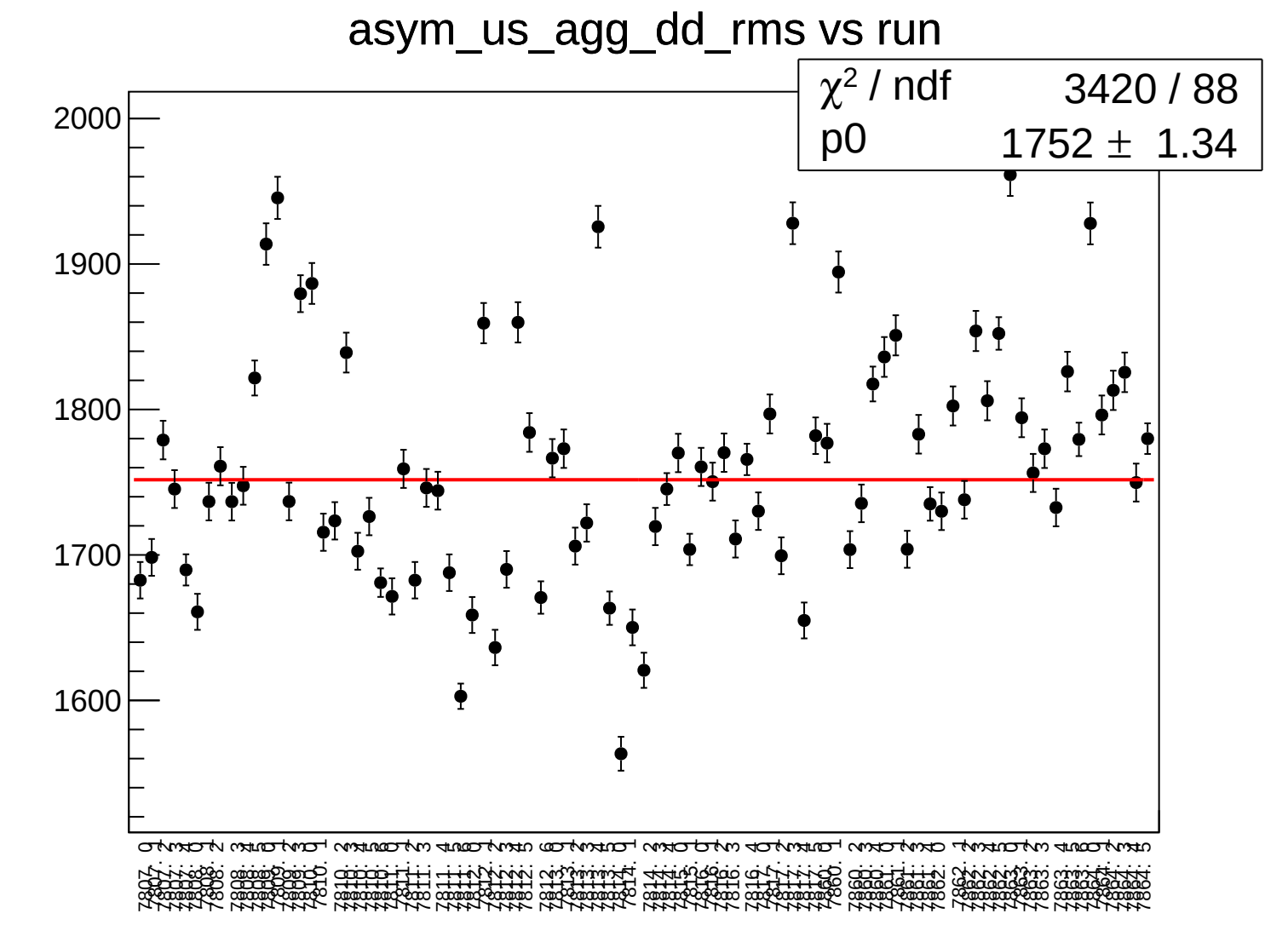

asym_us_agg_avg_mean vs run
χ² / ndf 86.44 / 88
p0 −4828 ± 2161
pull
Entries 89
Mean 95.67
Std Dev 43.12

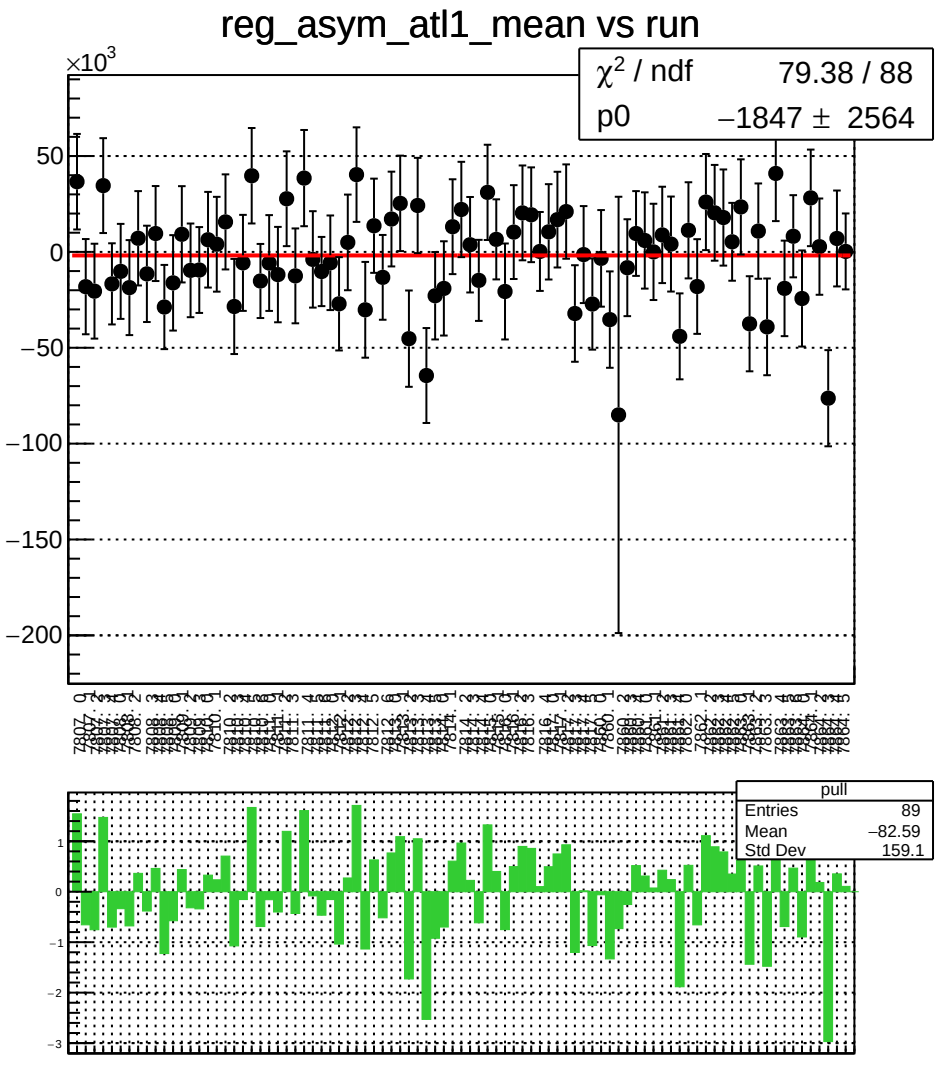

pull1D
Entries 89
Mean −0.0238
Std Dev 0.9852

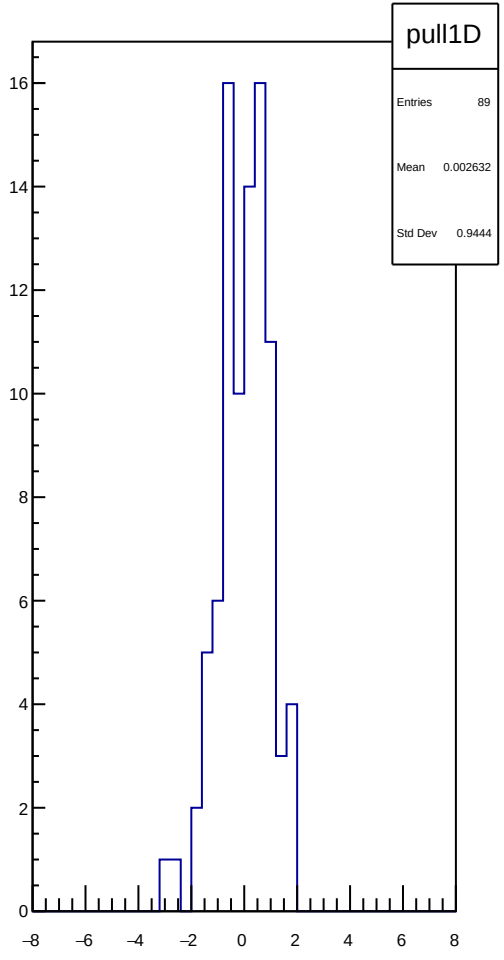

asym_us_agg_avg_rms vs run
χ² / ndf 2.651e+04 / 88
p0 1985 ± 1.528
2600
2400
2200
2000
1800
1600

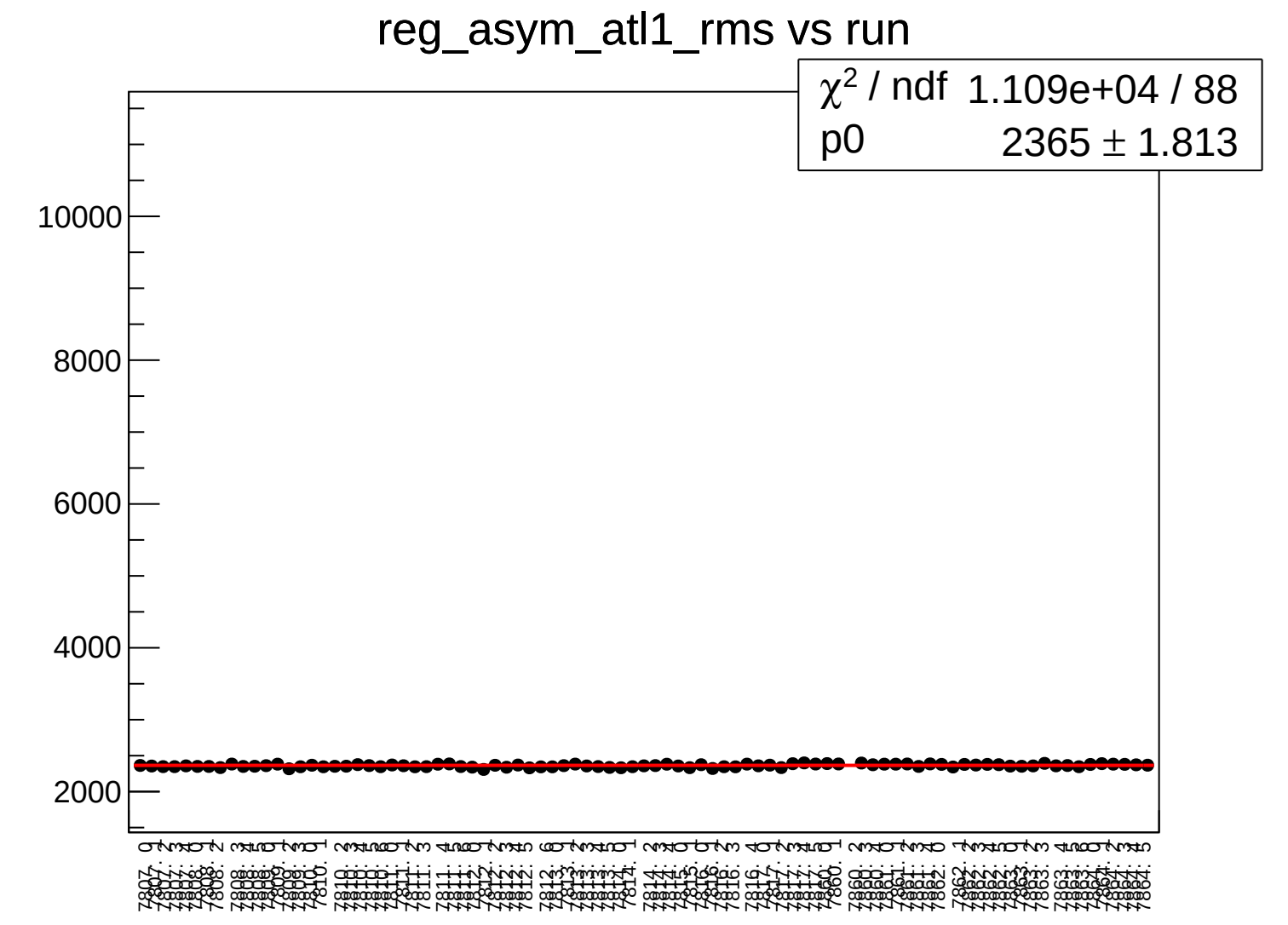

asym_us_agg_dd_mean vs run
χ² / ndf 97.6 / 88
p0 −158.4 ± 1894
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 34.3
Std Dev 52.85
2
1
0
−1
−2

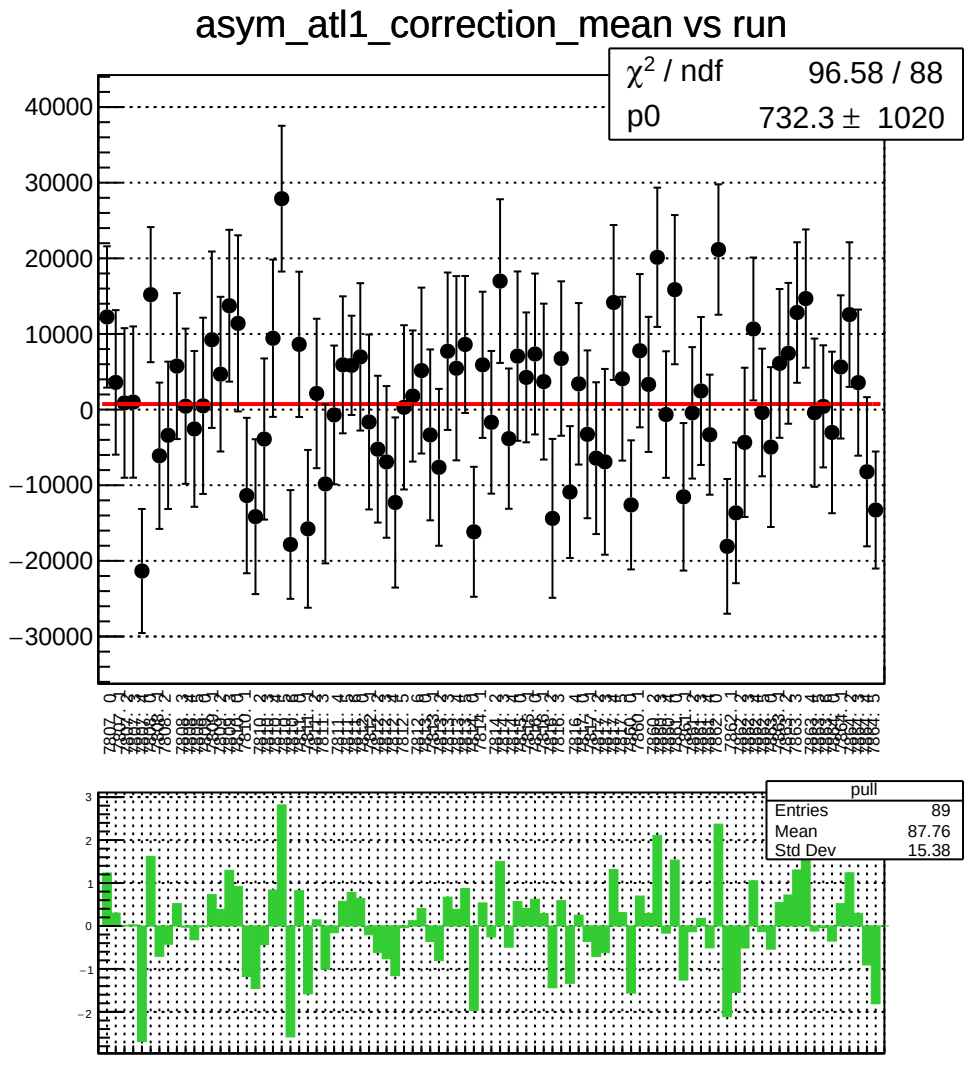

pull1D
Entries 89
Mean 0.01328
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

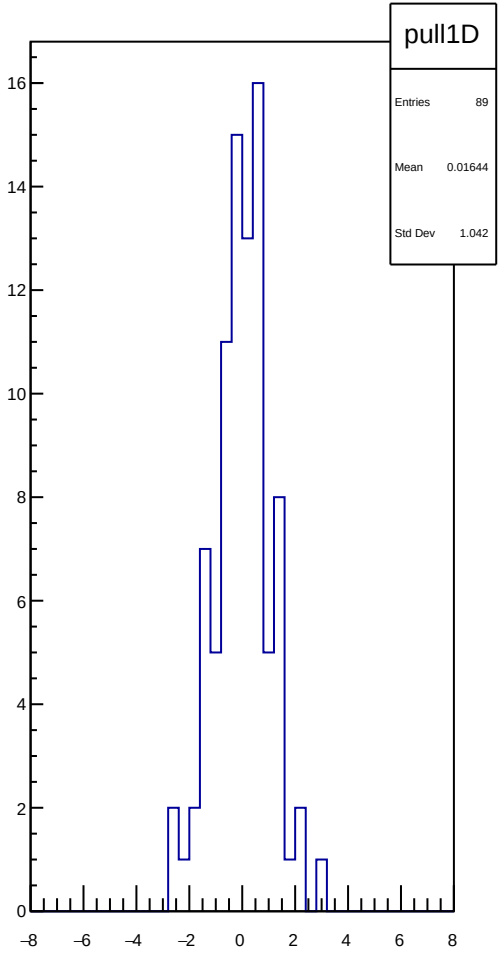

asym_us_agg_dd_rms vs run
χ² / ndf 3420 / 88
p0 1752 ± 1.34
2000
1900
1800
1700
1600

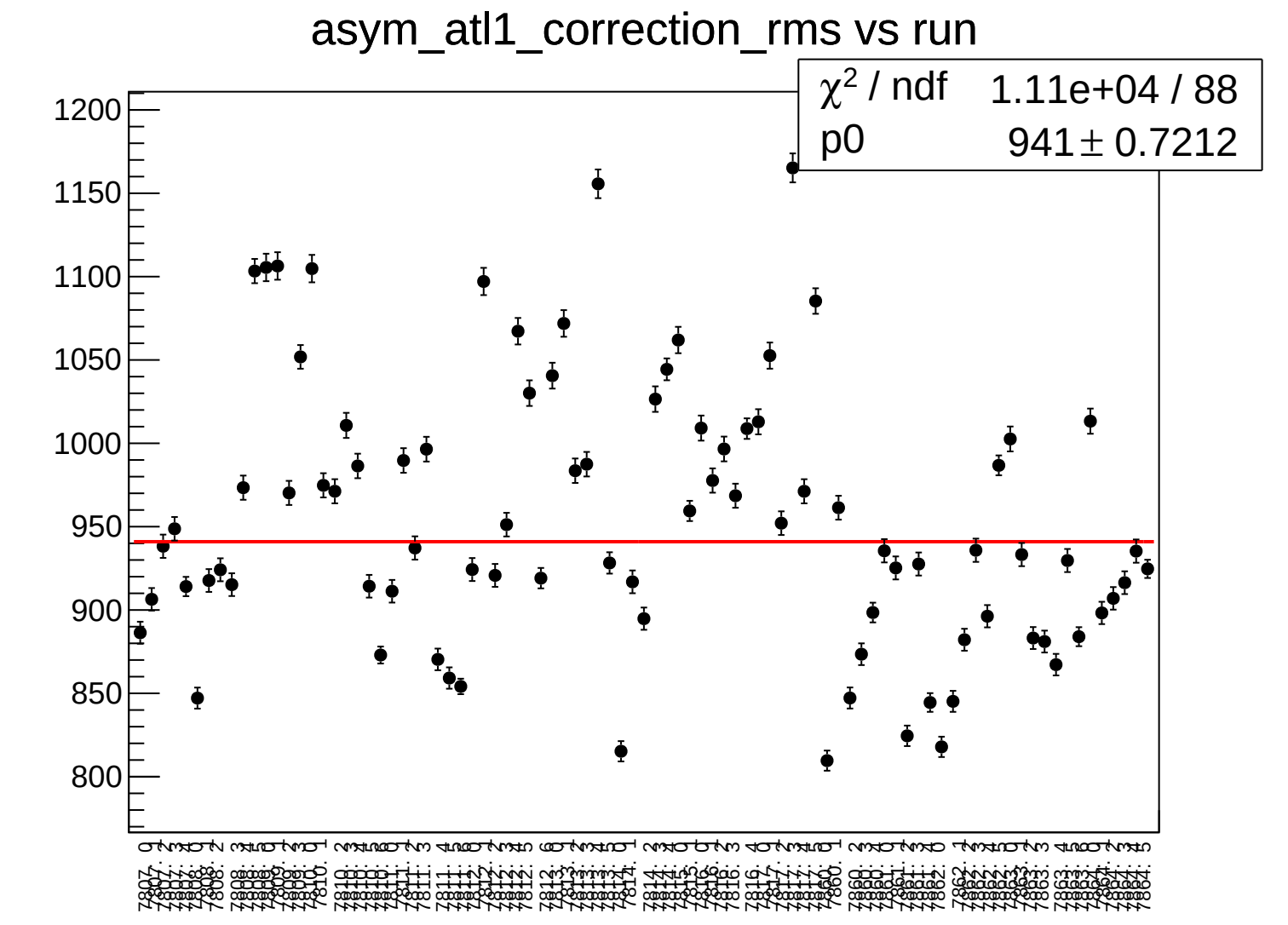

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 79.38 / 88
p0 −1847 ± 2564
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −82.59
Std Dev 159.1
1
0
−1
−2
−3

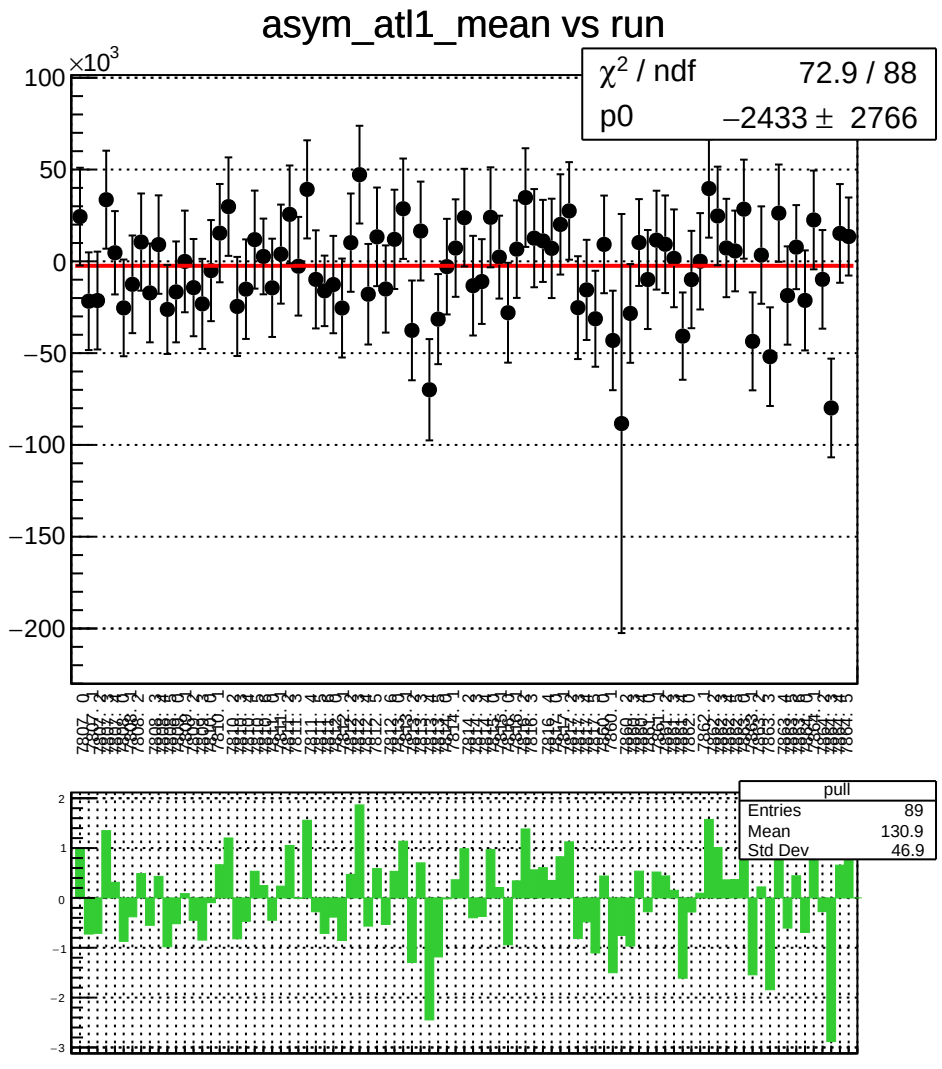

pull1D
Entries 89
Mean 0.002632
Std Dev 0.9444
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

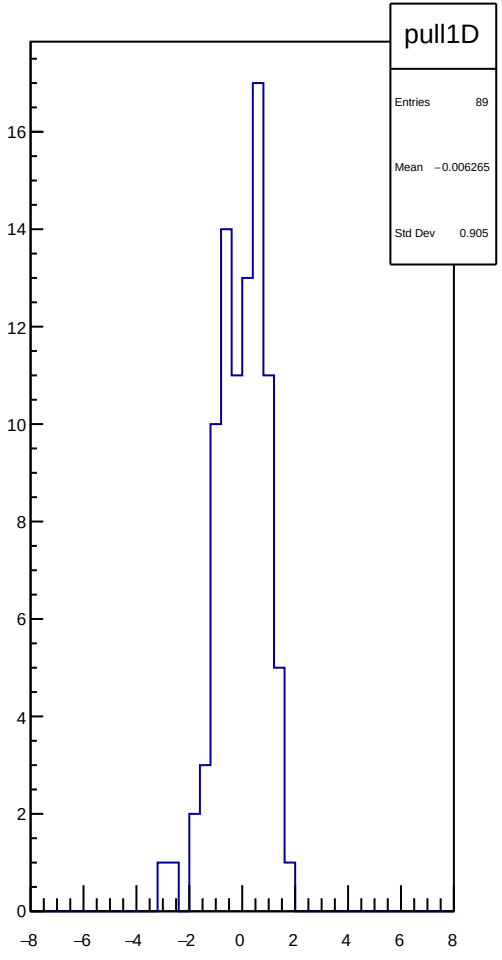

reg_asym_atl1_rms vs run
χ² / ndf 1.109e+04 / 88
p0 2365 ± 1.813
10000
8000
6000
4000
2000

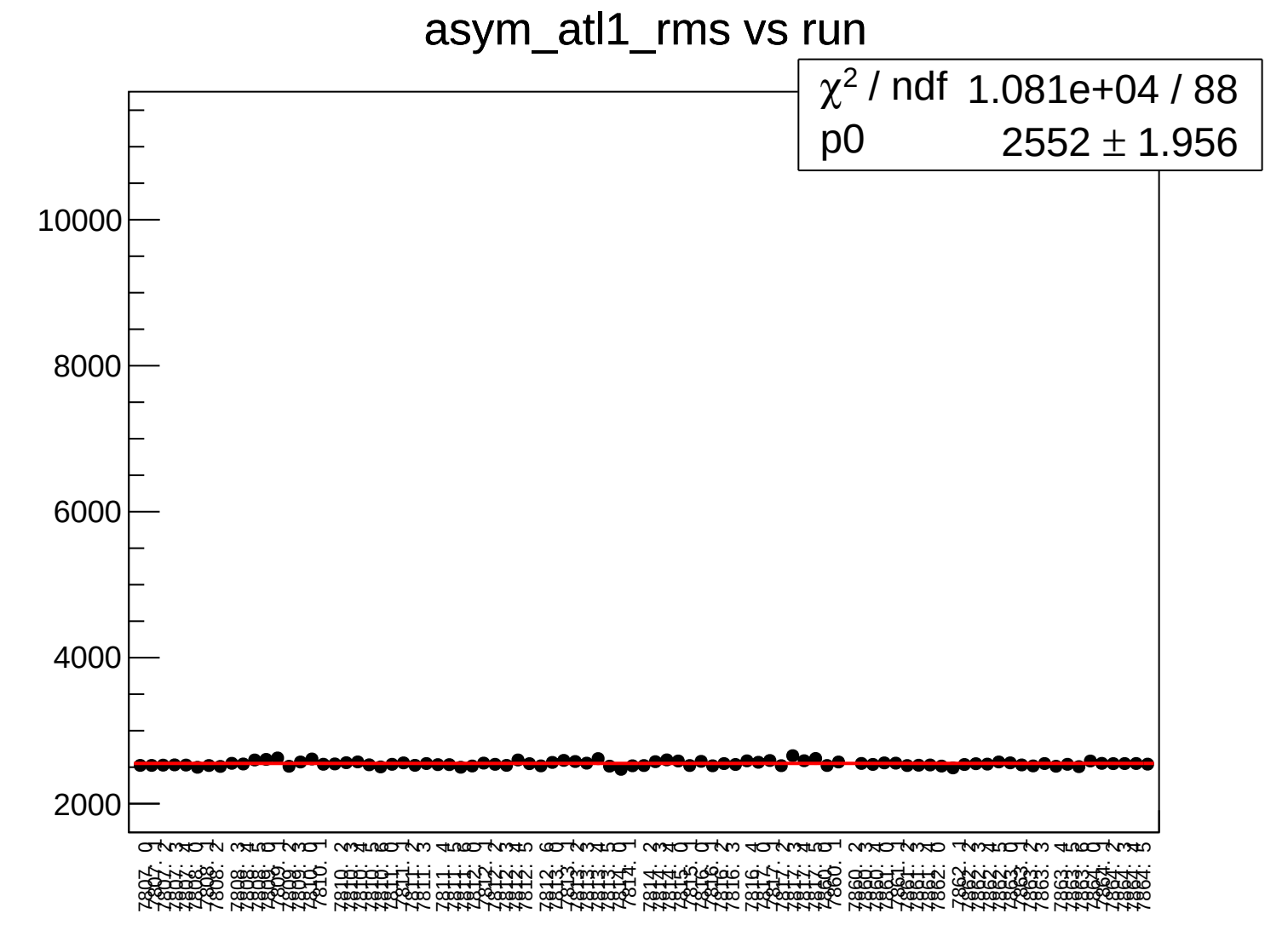

asym_atl1_correction_mean vs run
χ² / ndf 96.58 / 88
p0 732.3 ± 1020
pull
Entries 89
Mean 87.76
Std Dev 15.38

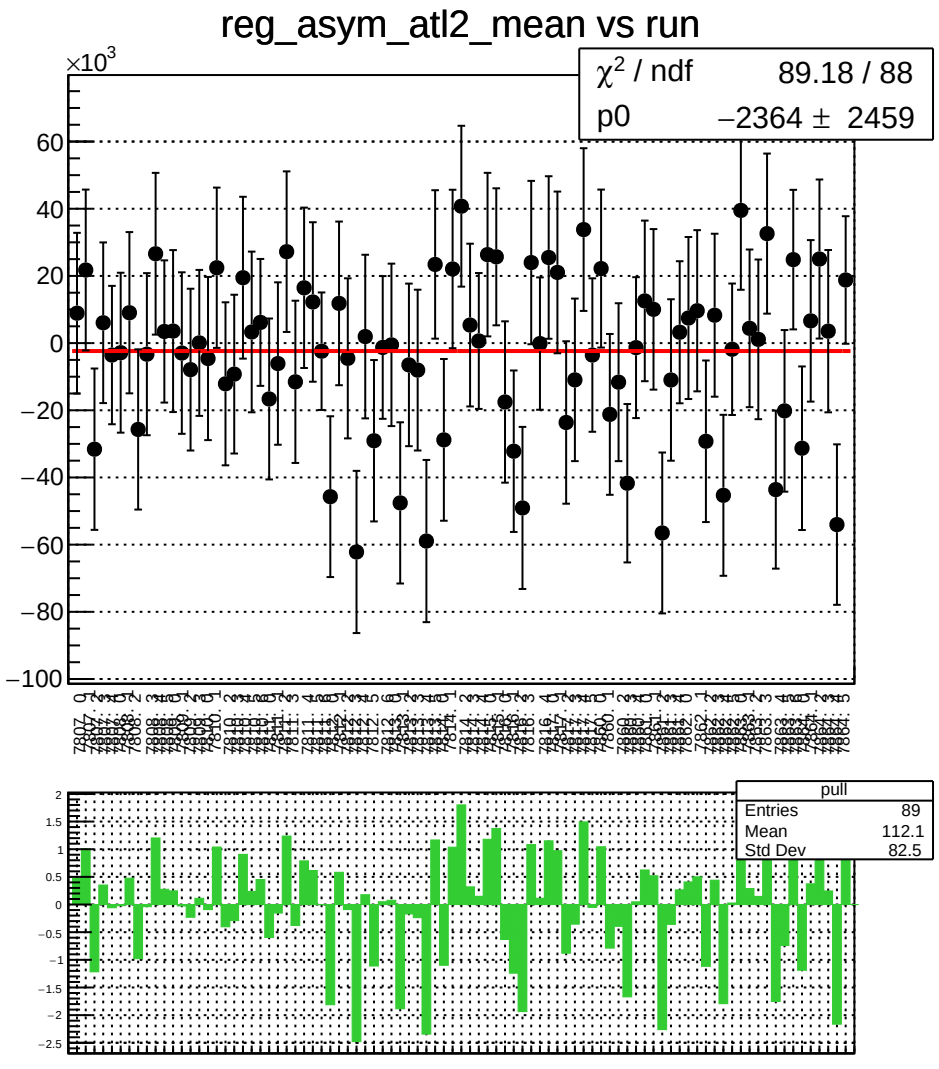

pull1D
Entries 89
Mean 0.01644
Std Dev 1.042

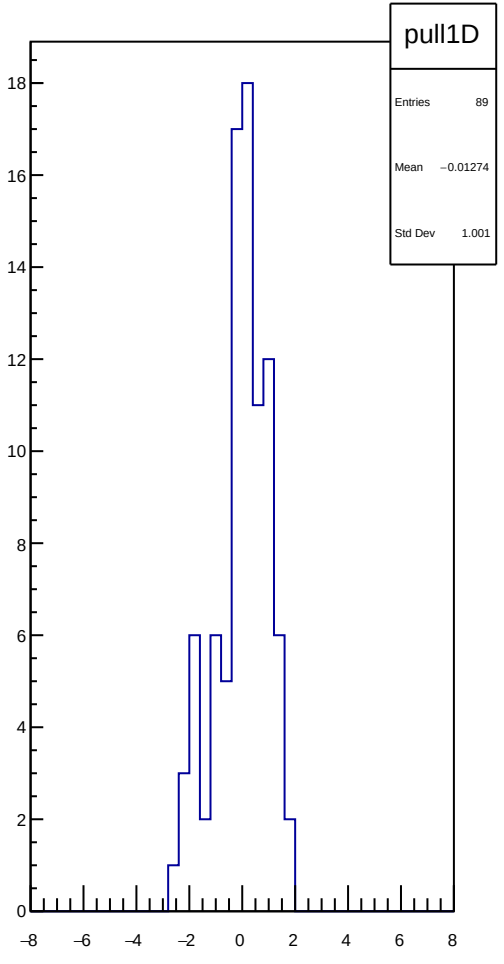

asym_atl1_correction_rms vs run
χ² / ndf 1.11e+04 / 88
p0 941 ± 0.7212
1200
1150
1100
1050
1000
950
900
850
800

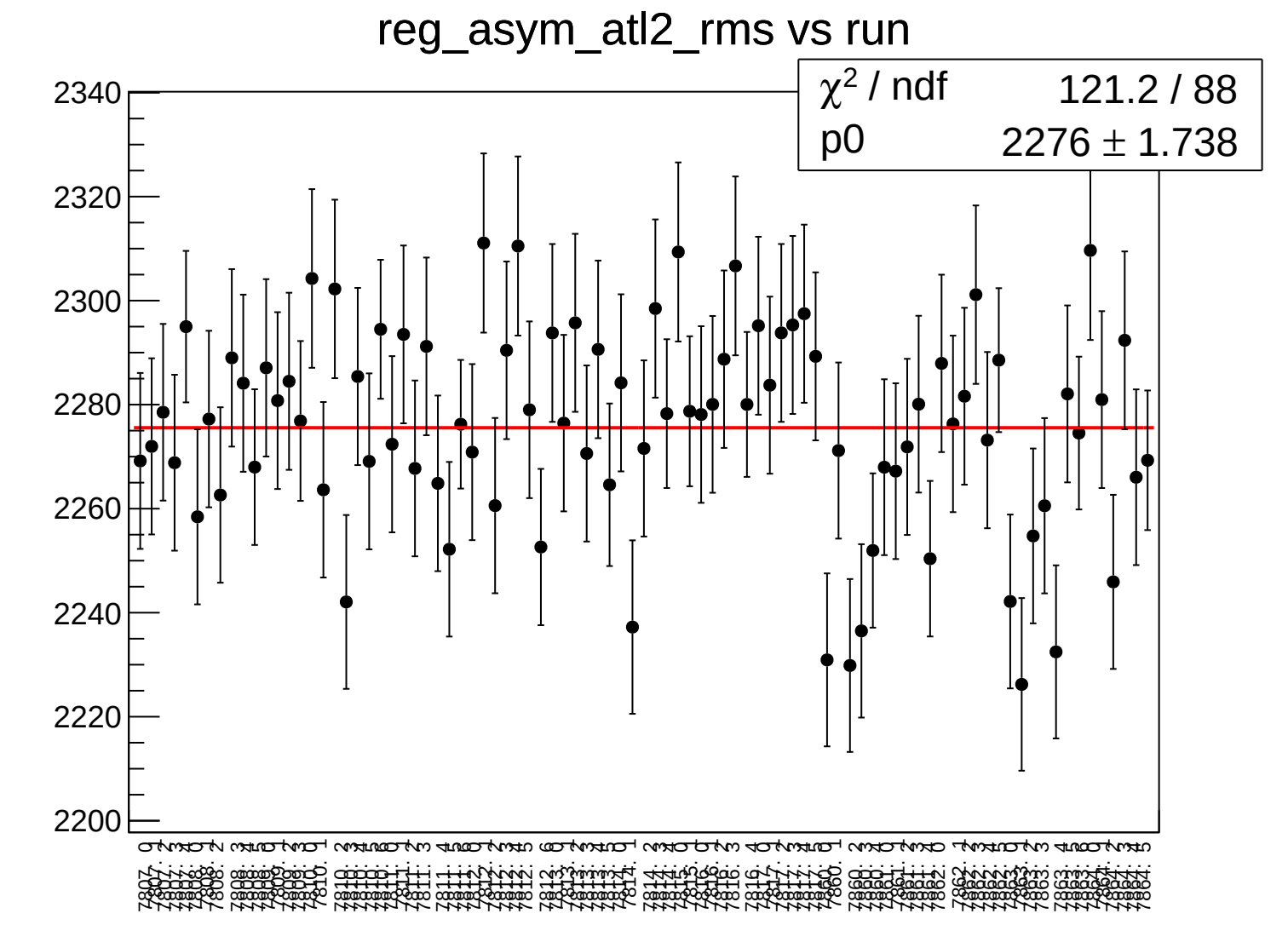

asym_atl1_mean vs run
×10^3
χ² / ndf 72.9 / 88
p0 −2433 ± 2766
pull
Entries 89
Mean 130.9
Std Dev 46.9

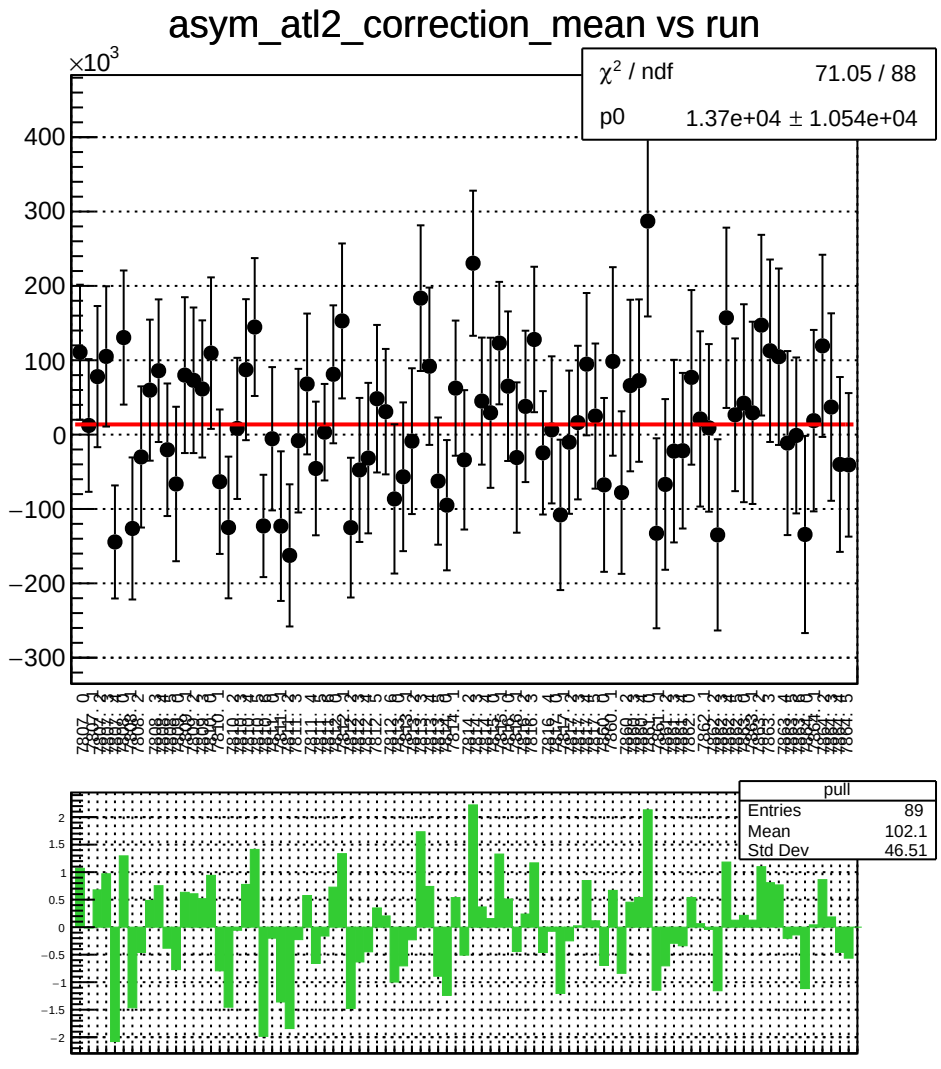

pull1D
Entries 89
Mean −0.006265
Std Dev 0.905

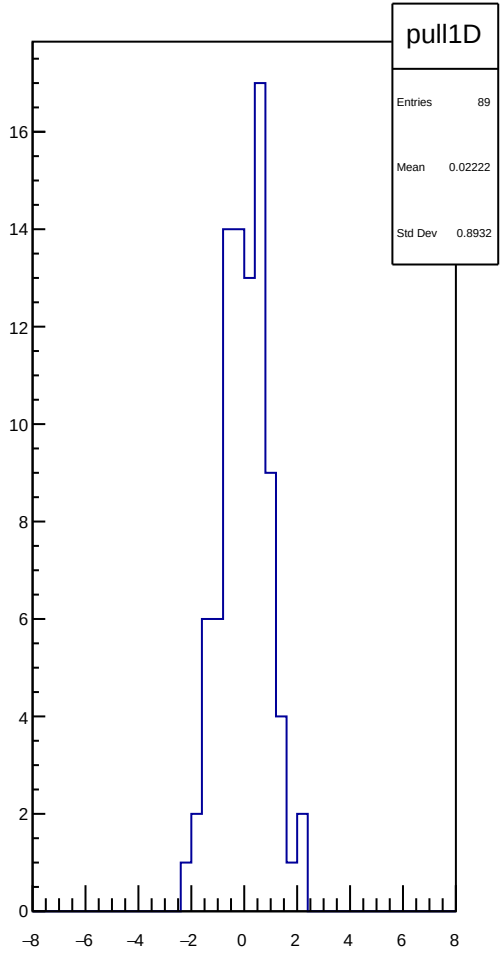

asym_atl1_rms vs run
χ² / ndf 1.081e+04 / 88
p0 2552 ± 1.956
10000
8000
6000
4000
2000

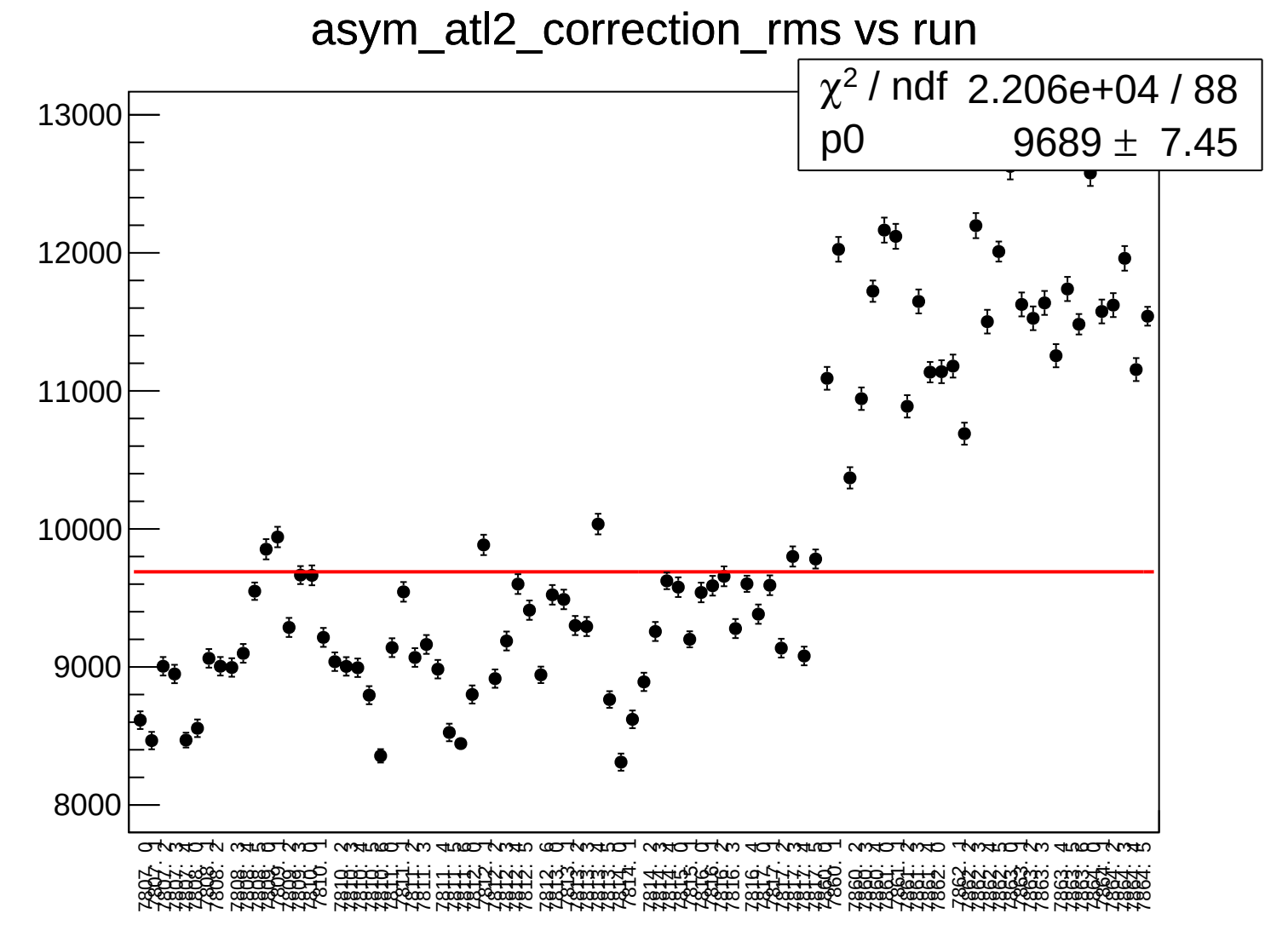

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 89.18 / 88
p0 −2364 ± 2459
pull
Entries 89
Mean 112.1
Std Dev 82.5

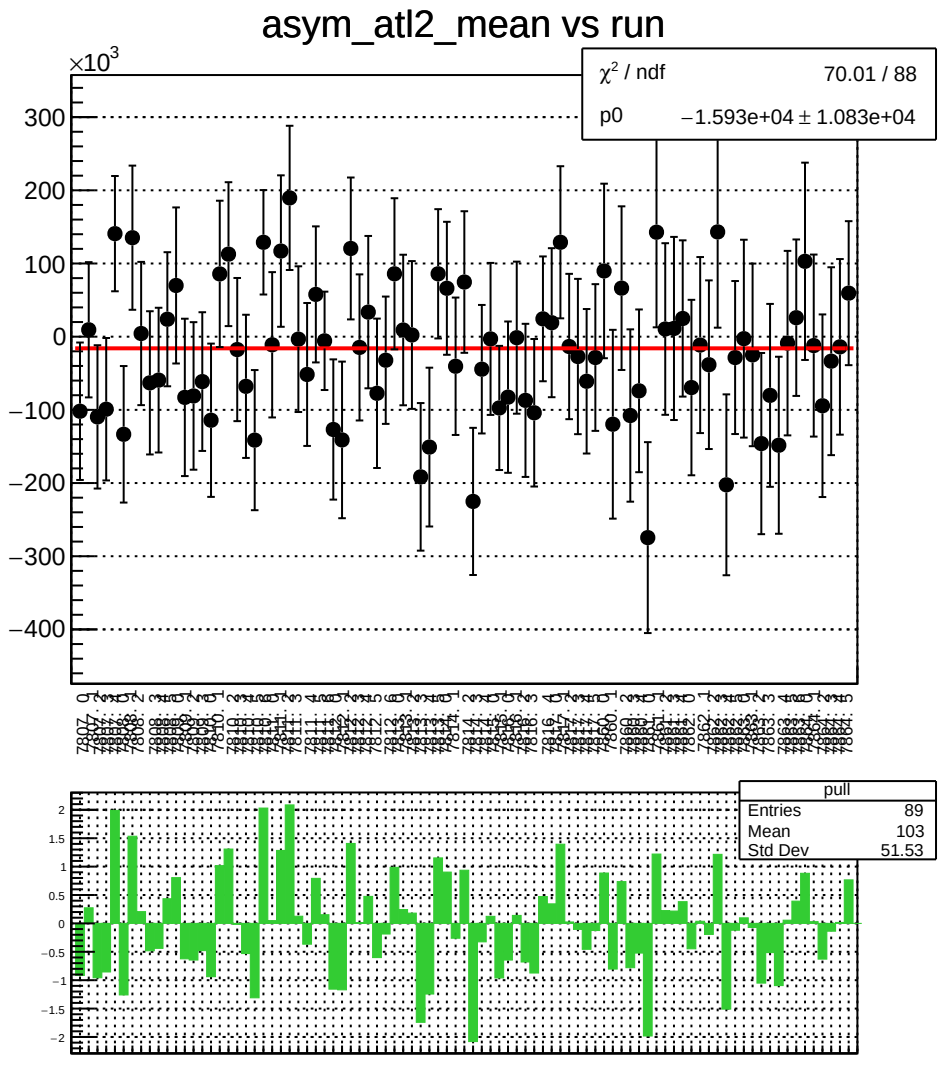

pull1D
Entries 89
Mean −0.01274
Std Dev 1.001

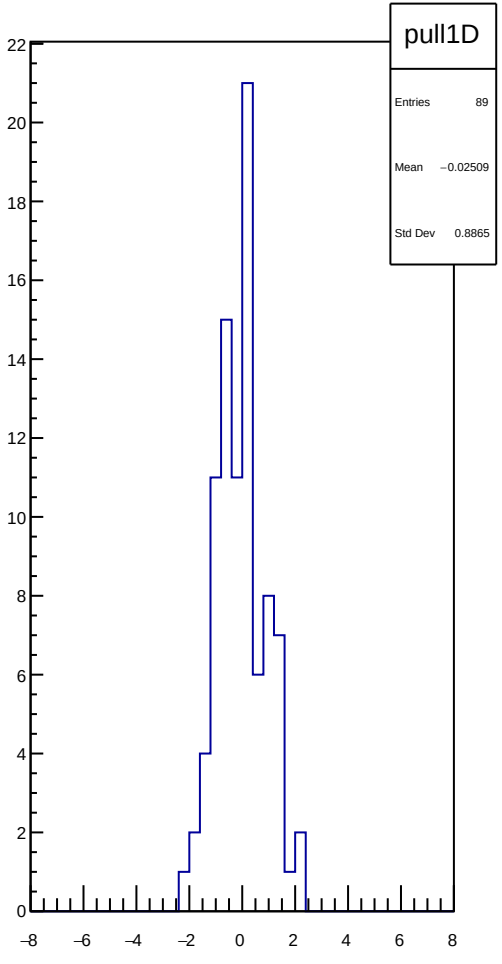

reg_asym_atl2_rms vs run
χ² / ndf 121.2 / 88
p0 2276 ± 1.738
2340
2320
2300
2280
2260
2240
2220
2200

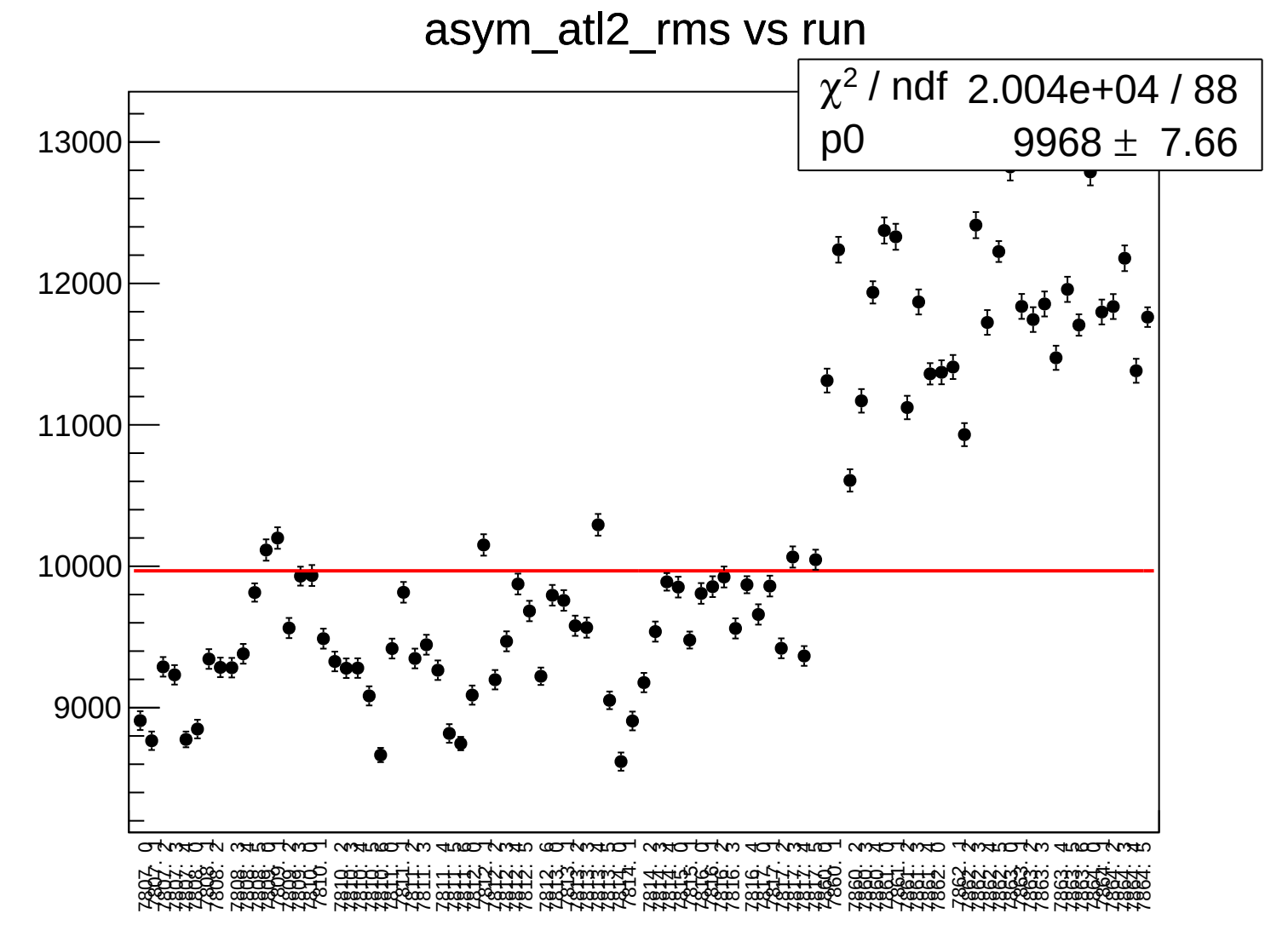

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 71.05 / 88
p0 1.37e+04 ± 1.054e+04
pull
Entries 89
Mean 102.1
Std Dev 46.51

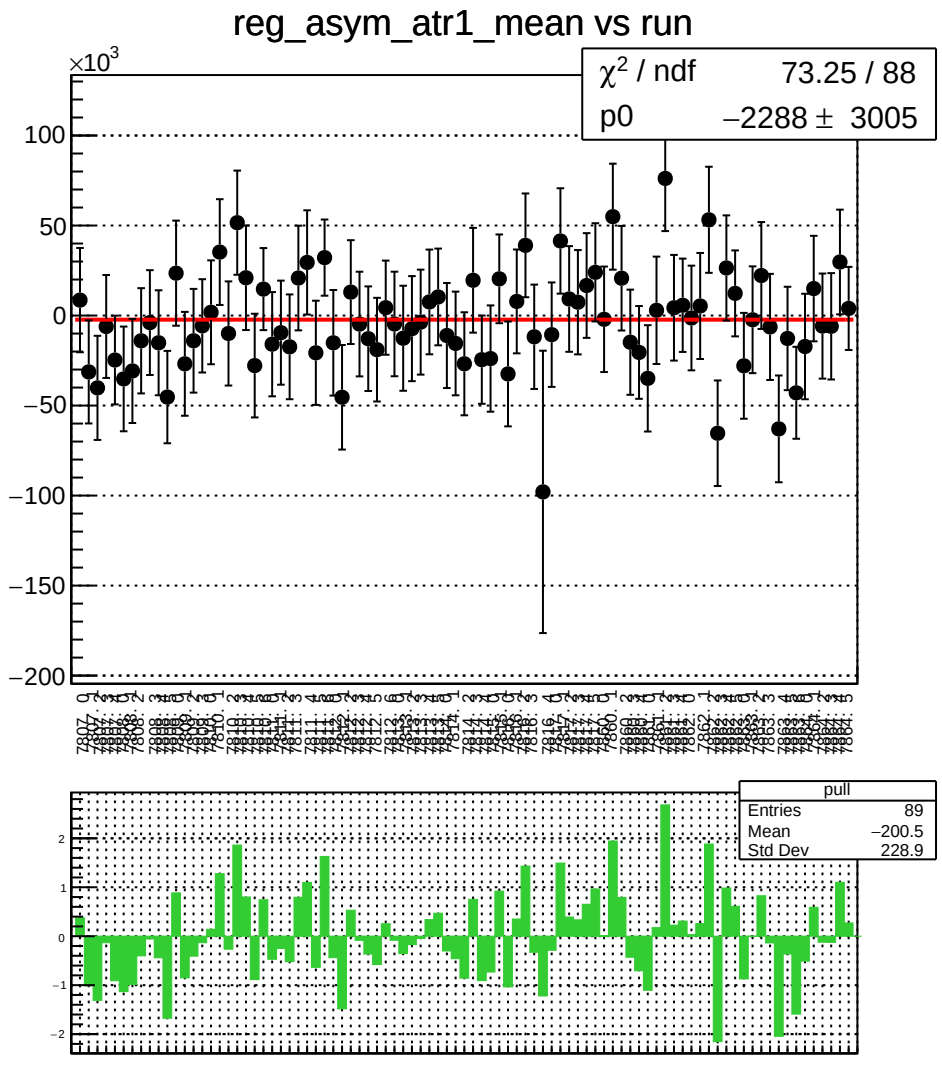

pull1D
Entries 89
Mean 0.02222
Std Dev 0.8932

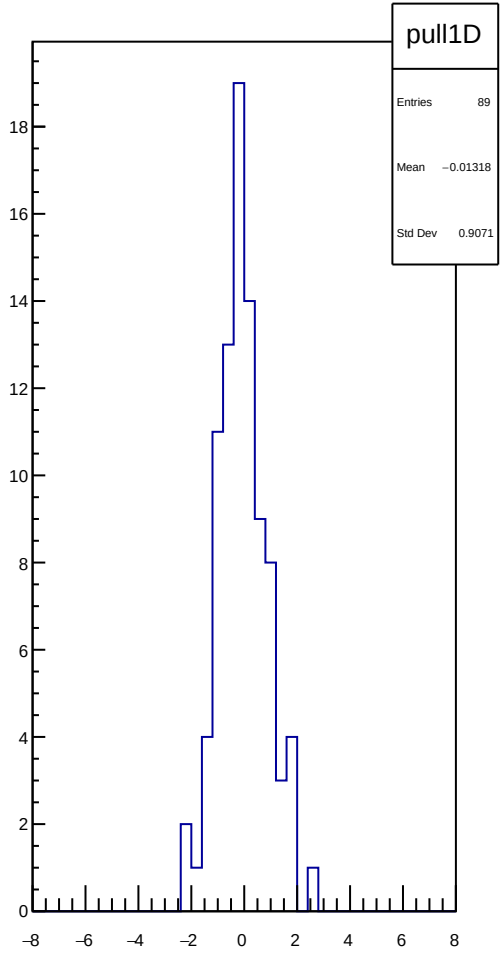

asym_atl2_correction_rms vs run
χ² / ndf 2.206e+04 / 88
p0 9689 ± 7.45
13000
12000
11000
10000
9000
8000

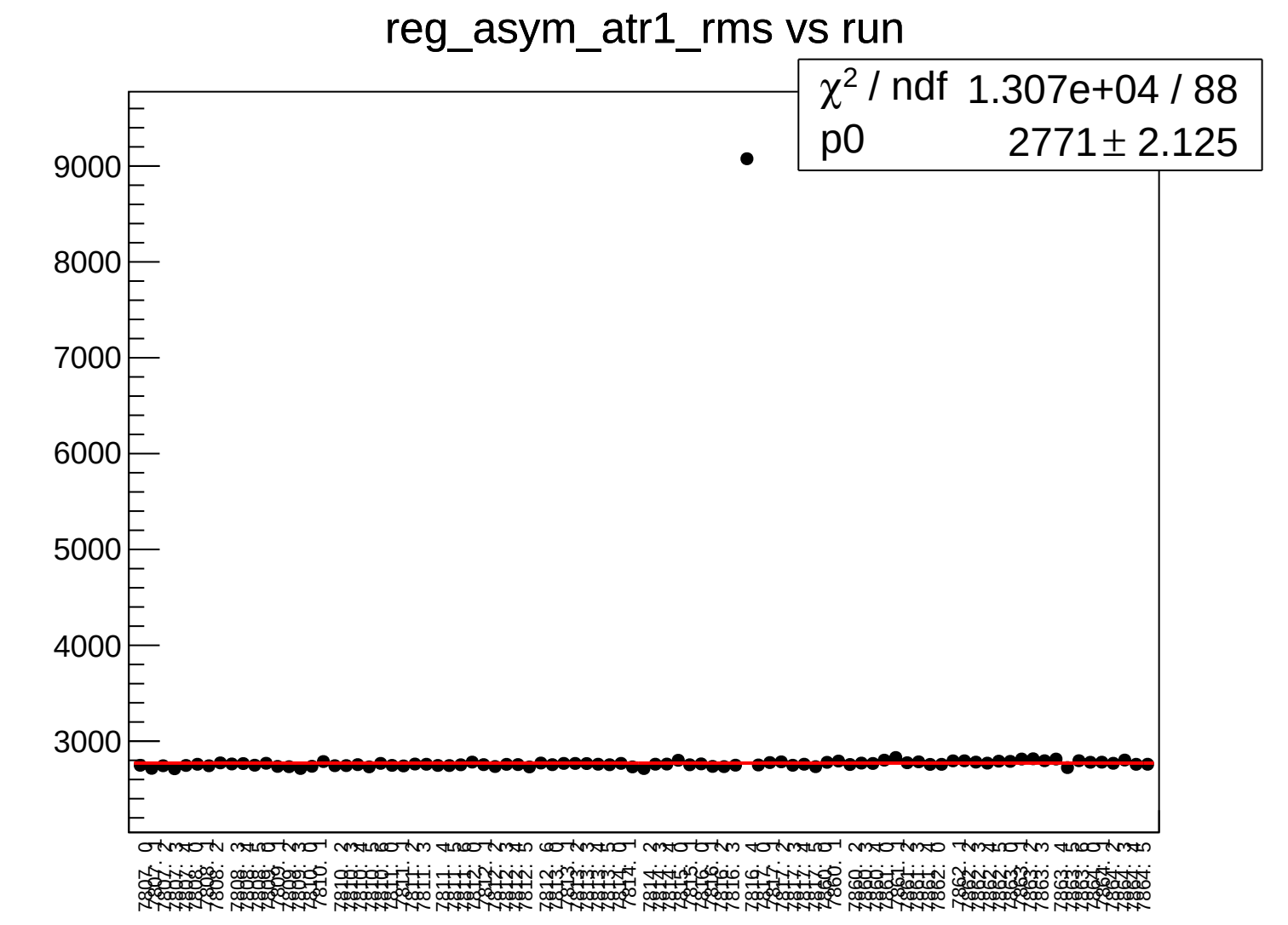

asym_atl2_mean vs run
×10^3
χ² / ndf 70.01 / 88
p0 −1.593e+04 ± 1.083e+04
pull
Entries 89
Mean 103
Std Dev 51.53

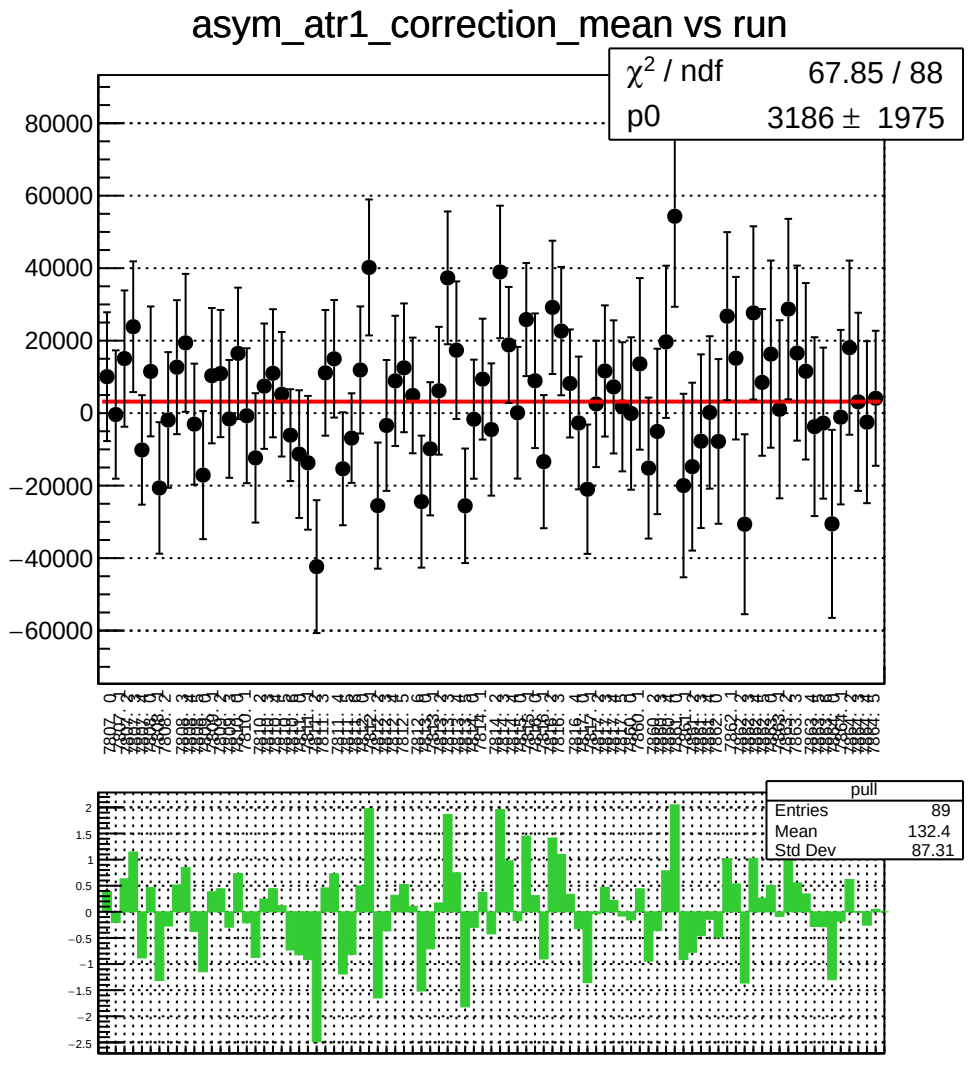

pull1D
Entries 89
Mean −0.02509
Std Dev 0.8865

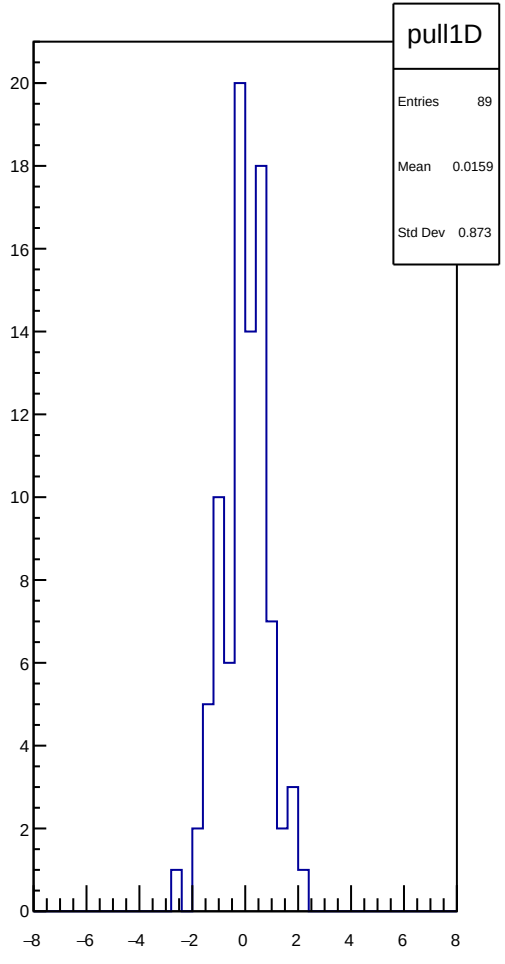

asym_atl2_rms vs run
χ² / ndf 2.004e+04 / 88
p0 9968 ± 7.66
13000
12000
11000
10000
9000

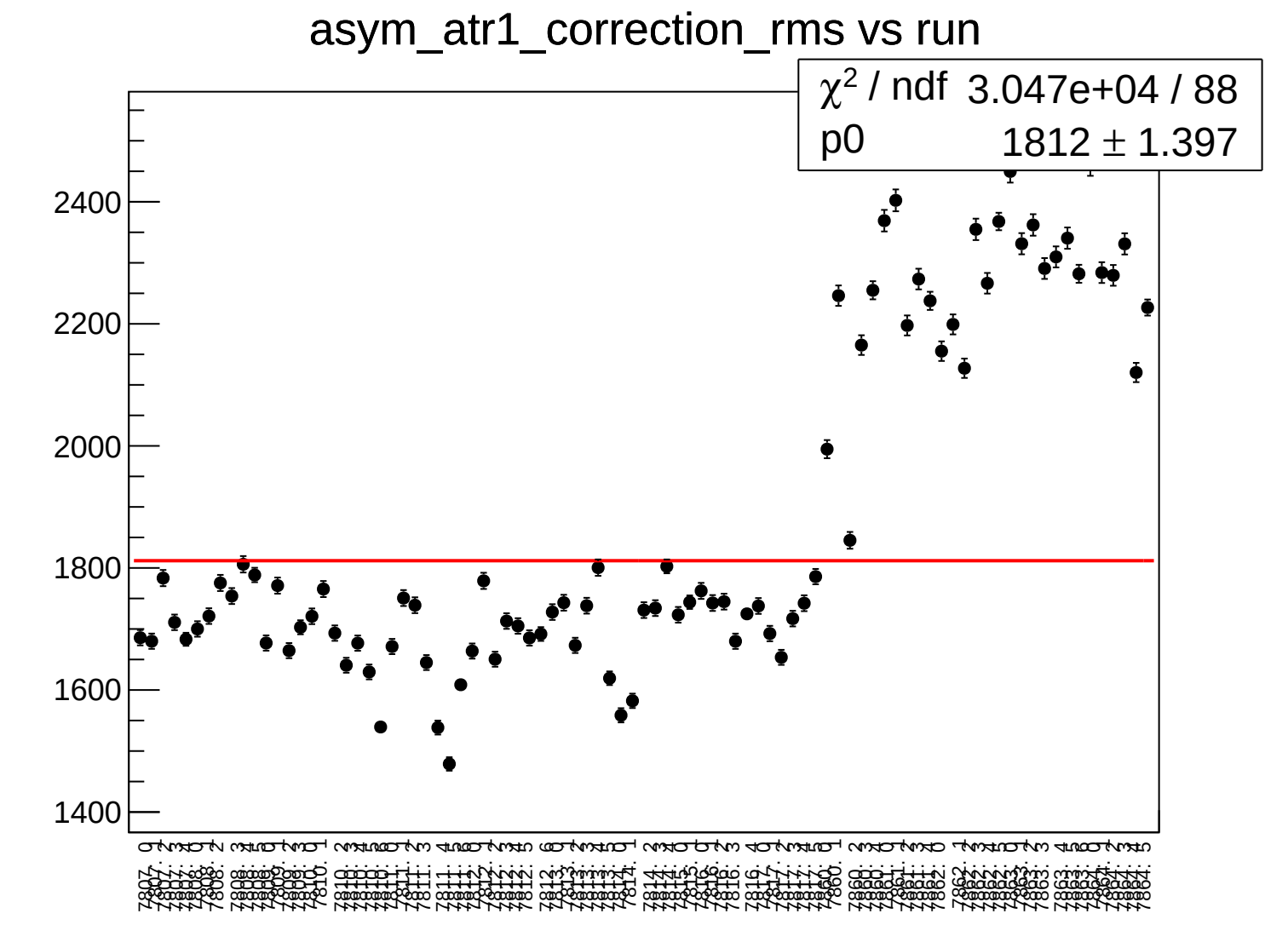

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 73.25 / 88
p0 −2288 ± 3005
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −200.5
Std Dev 228.9
2
1
0
−1
−2

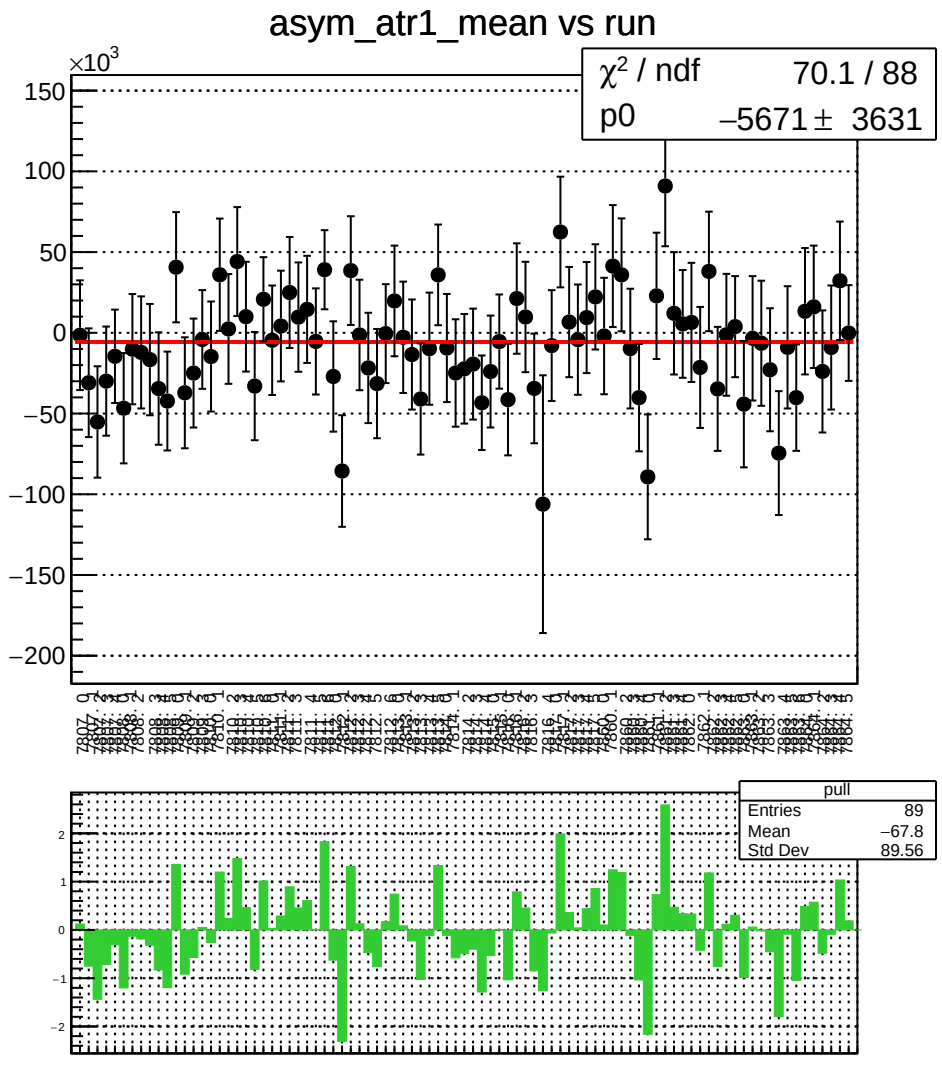

pull1D
Entries 89
Mean −0.01318
Std Dev 0.9071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

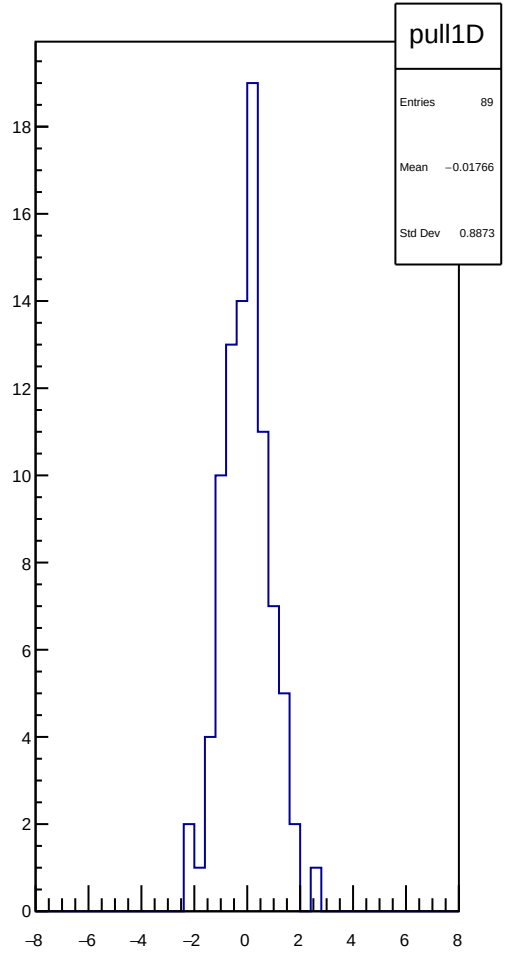

reg_asym_atr1_rms vs run
χ² / ndf 1.307e+04 / 88
p0 2771 ± 2.125
9000
8000
7000
6000
5000
4000
3000

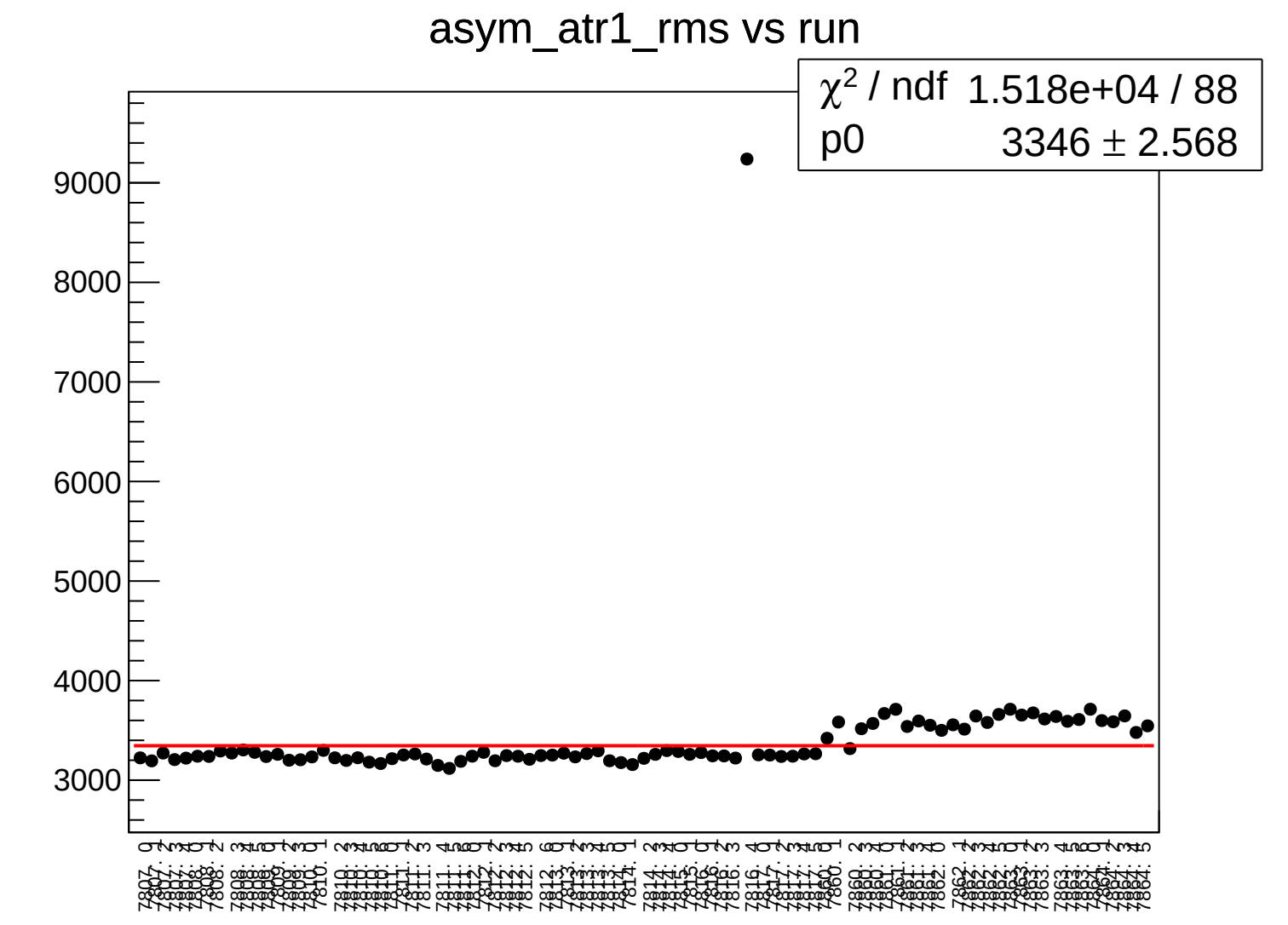

asym_atr1_correction_mean vs run
χ² / ndf 67.85 / 88
p0 3186 ± 1975
pull
Entries 89
Mean 132.4
Std Dev 87.31

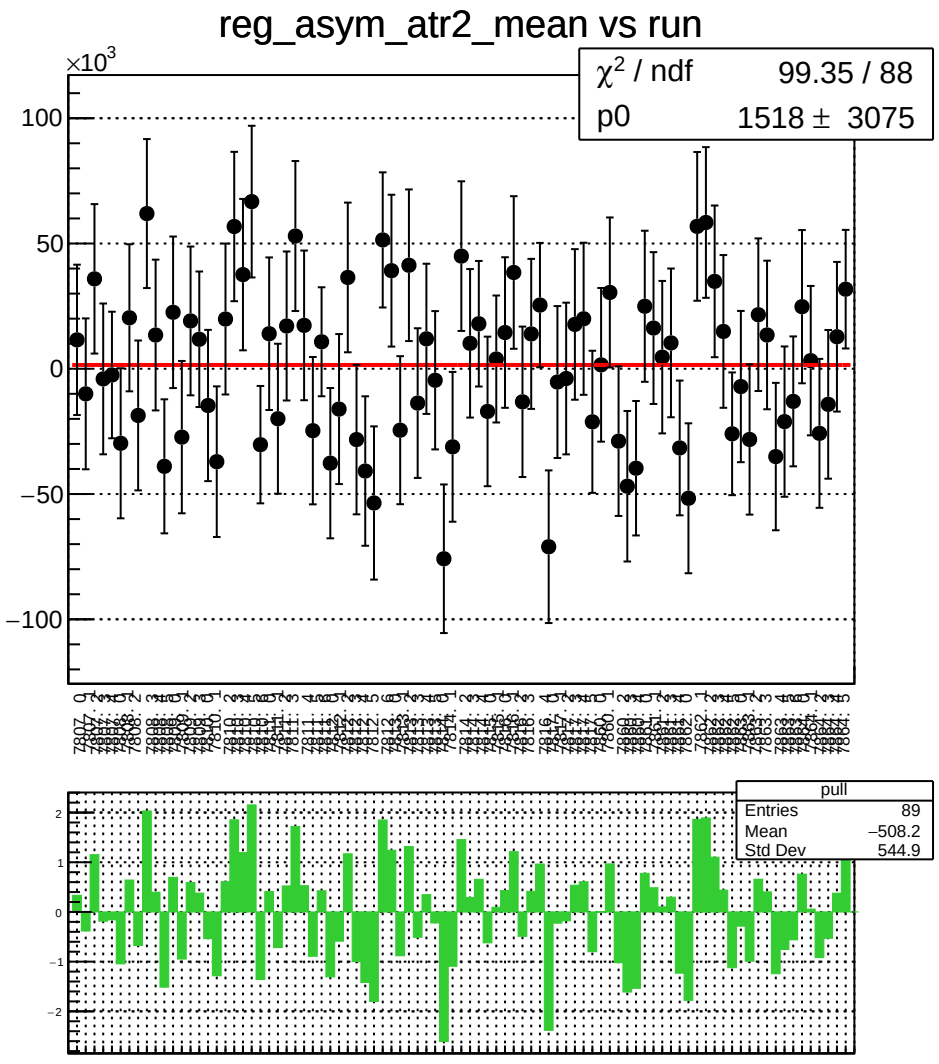

pull1D
Entries 89
Mean 0.0159
Std Dev 0.873

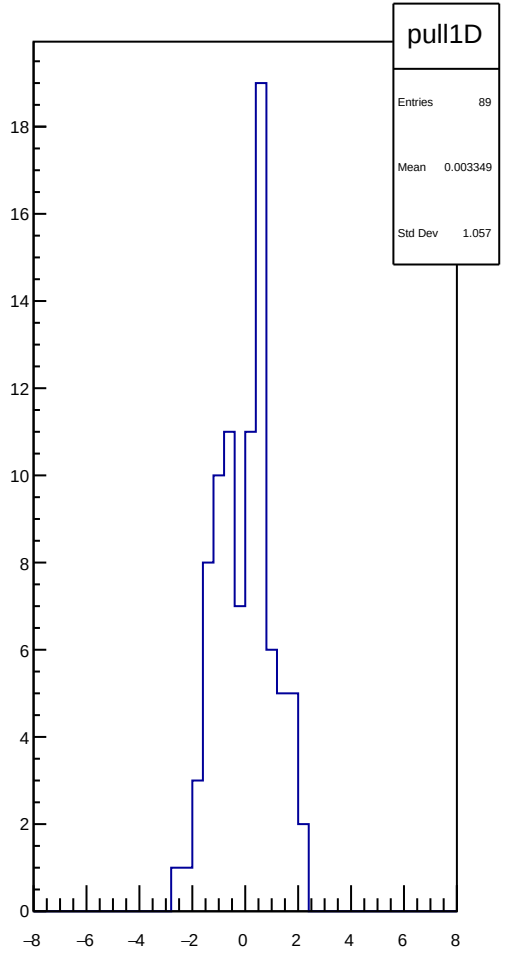

asym_atr1_correction_rms vs run
χ² / ndf 3.047e+04 / 88
p0 1812 ± 1.397
2400
2200
2000
1800
1600
1400

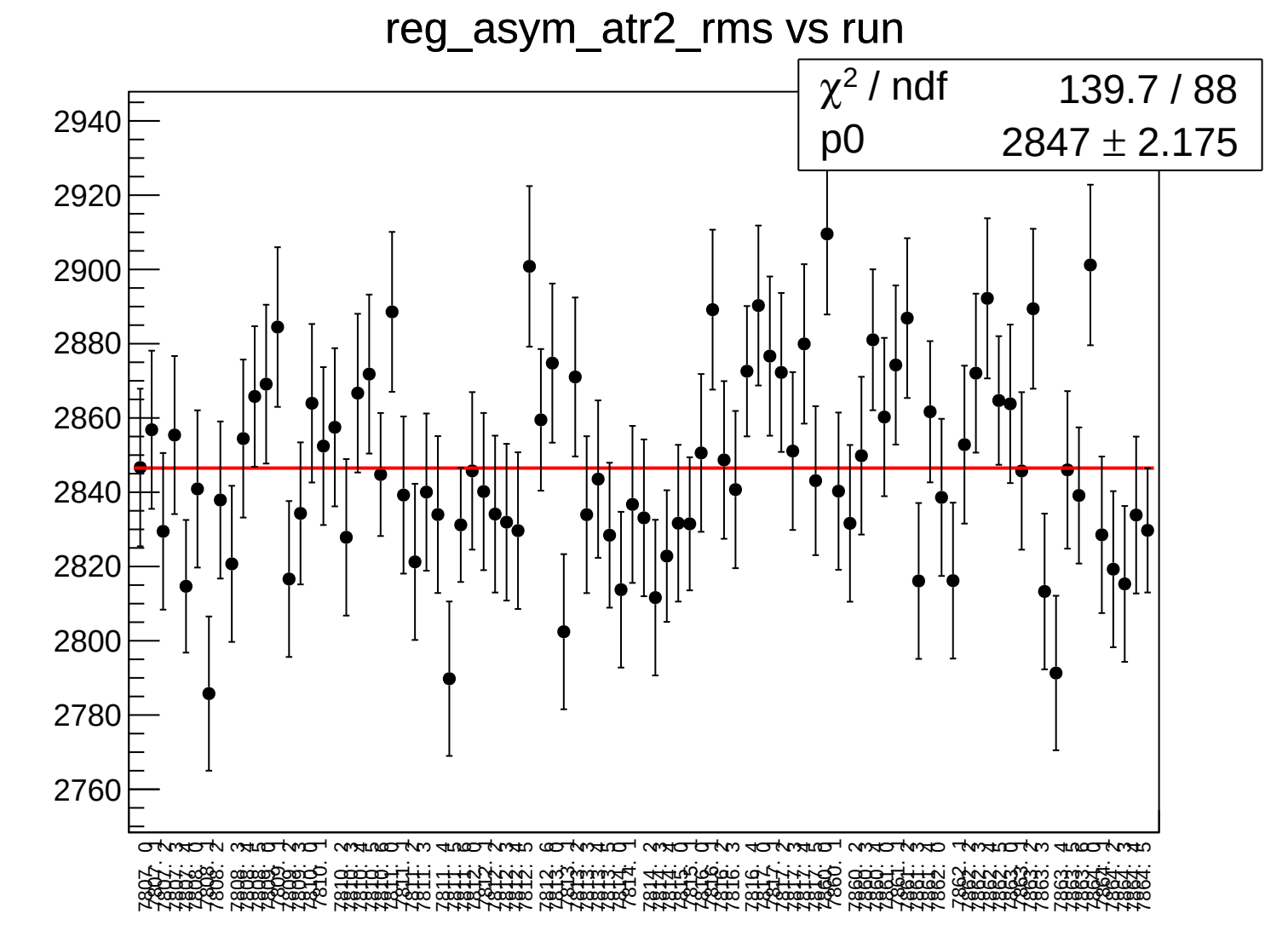

asym_atr1_mean vs run
×10^3
χ² / ndf 70.1 / 88
p0 −5671 ± 3631
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −67.8
Std Dev 89.56
2
1
0
−1
−2

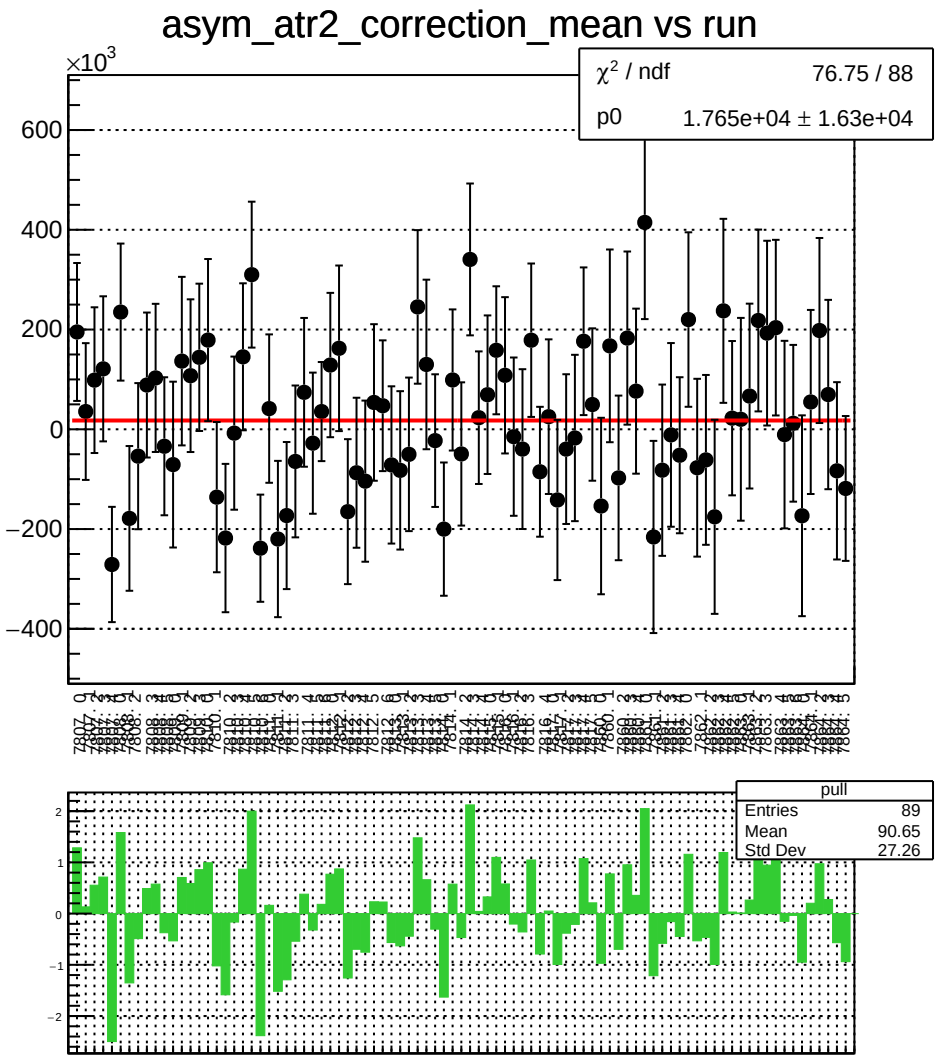

pull1D
Entries 89
Mean −0.01766
Std Dev 0.8873
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

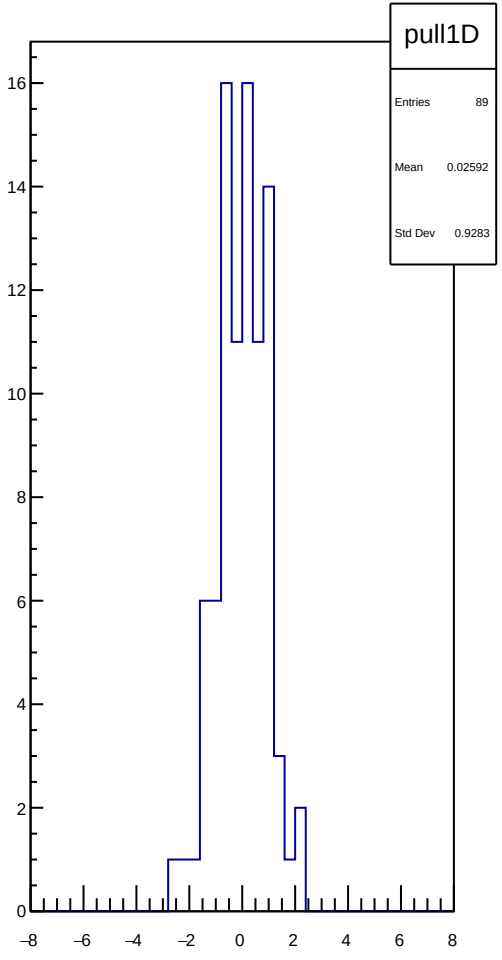

asym_atr1_rms vs run
χ^2 / ndf 1.518e+04 / 88
p0 3346 ± 2.568
9000
8000
7000
6000
5000
4000
3000

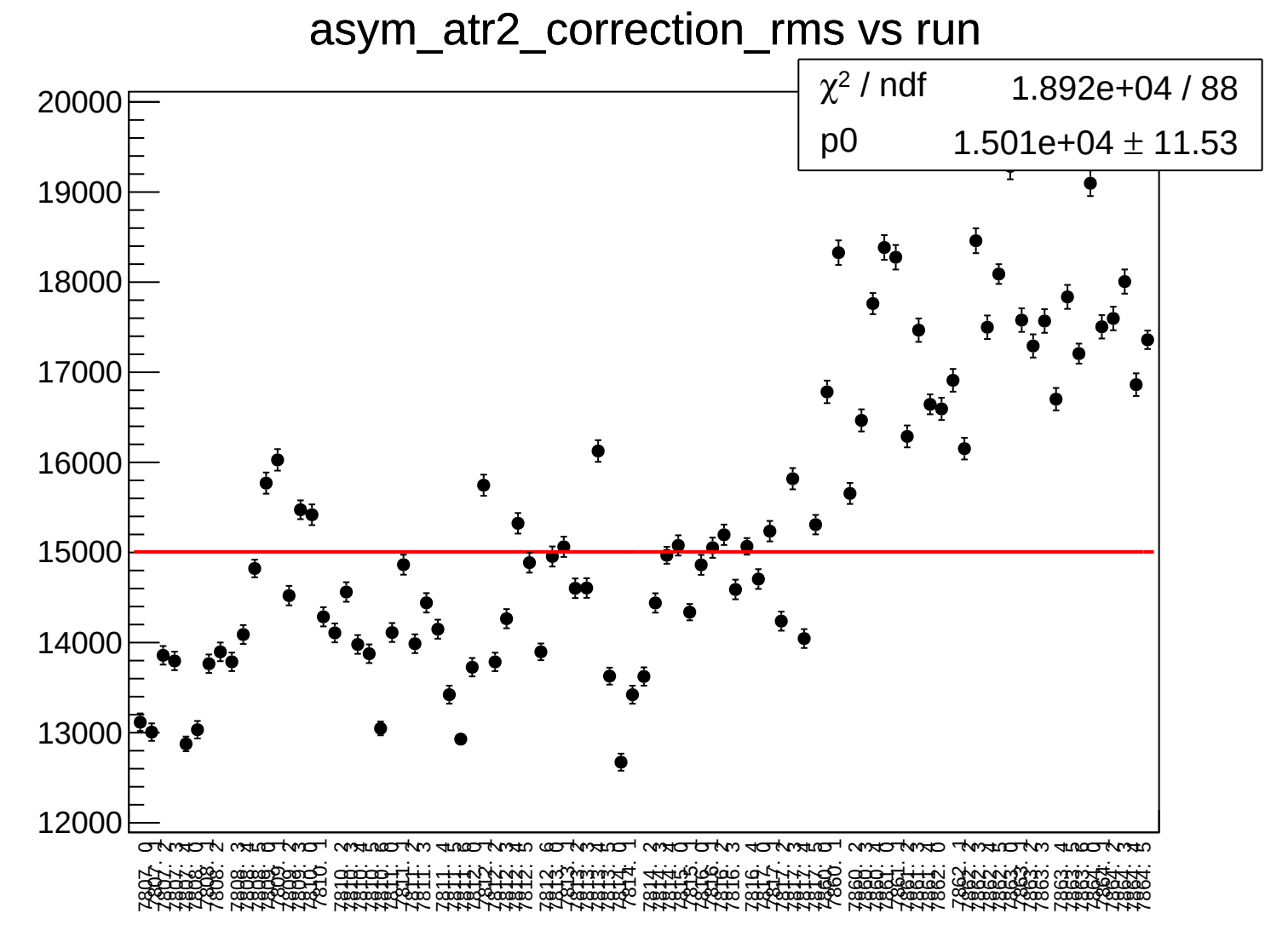

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 99.35 / 88
p0 1518 ± 3075
100
50
0
−50
−100
pull
Entries 89
Mean −508.2
Std Dev 544.9
2
1
0
−1
−2

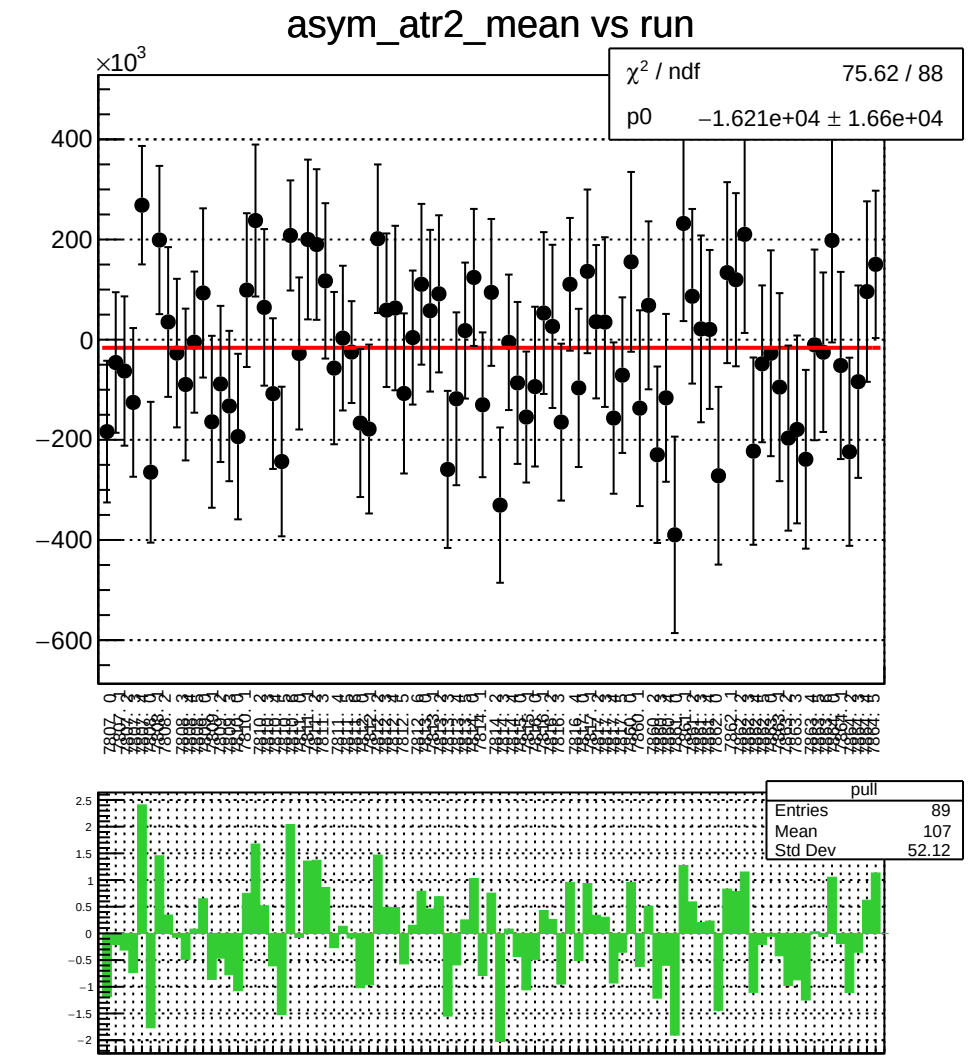

pull1D
Entries 89
Mean 0.003349
Std Dev 1.057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

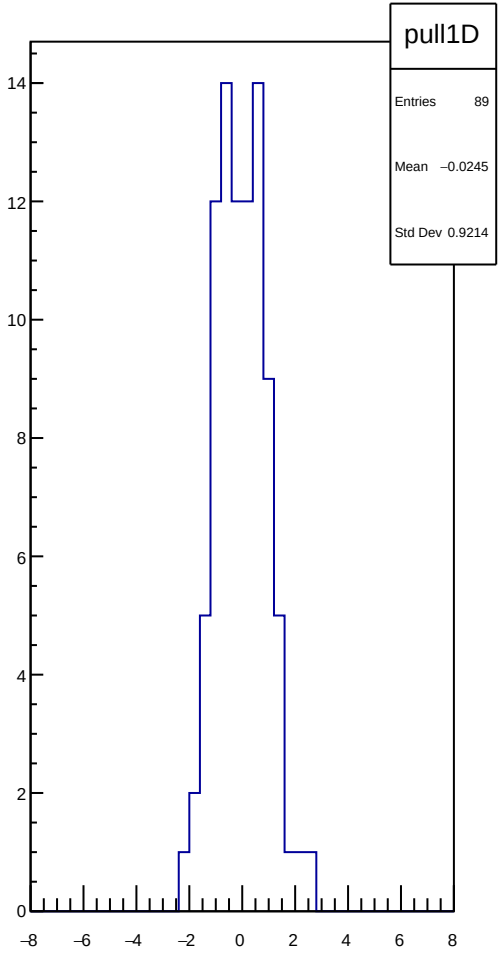

reg_asym_atr2_rms vs run
χ² / ndf 139.7 / 88
p0 2847 ± 2.175
2940
2920
2900
2880
2860
2840
2820
2800
2780
2760

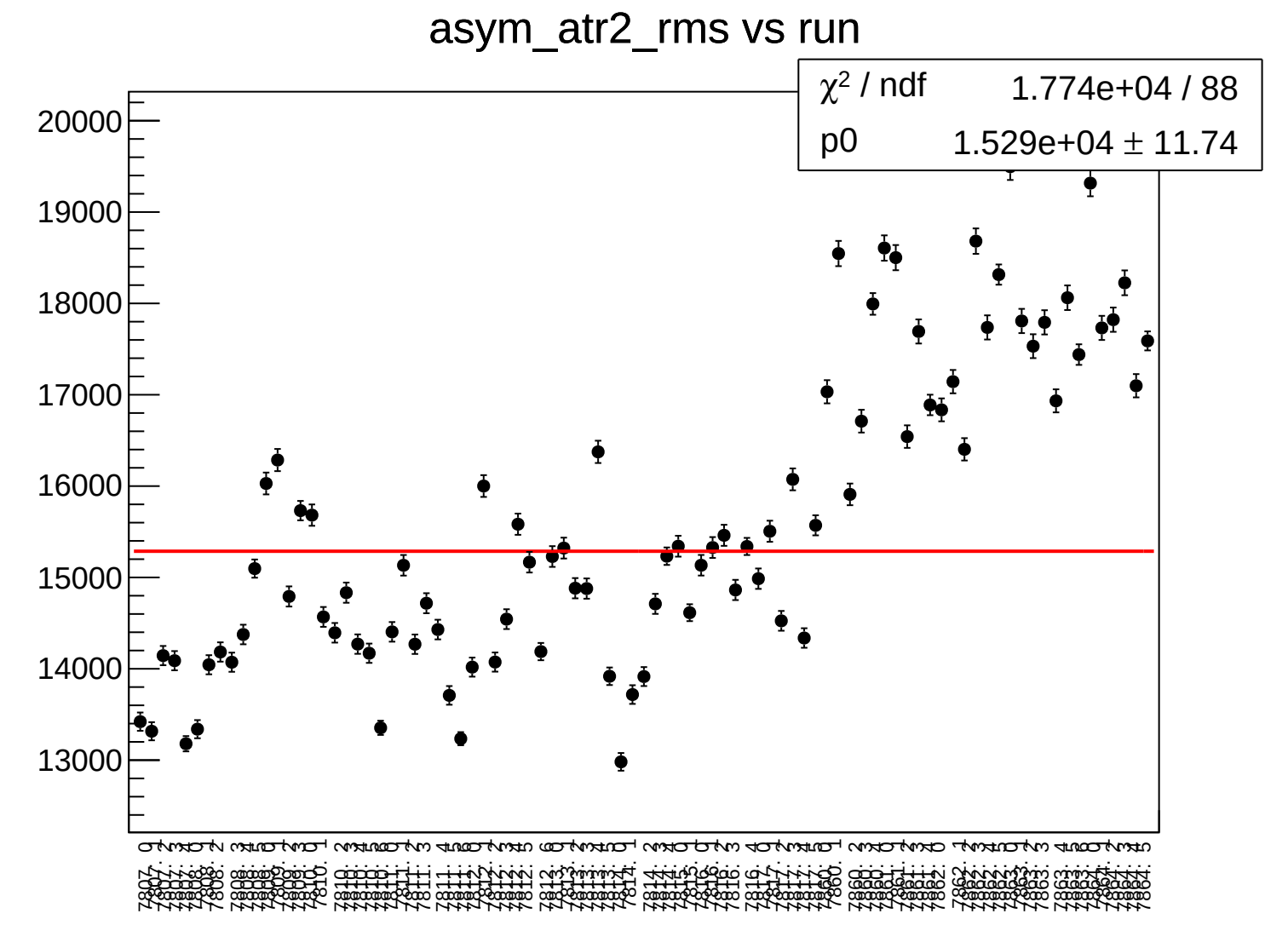

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 76.75 / 88
p0 1.765e+04 ± 1.63e+04
600
400
200
0
−200
−400
pull
Entries 89
Mean 90.65
Std Dev 27.26
2
1
0
−1
−2

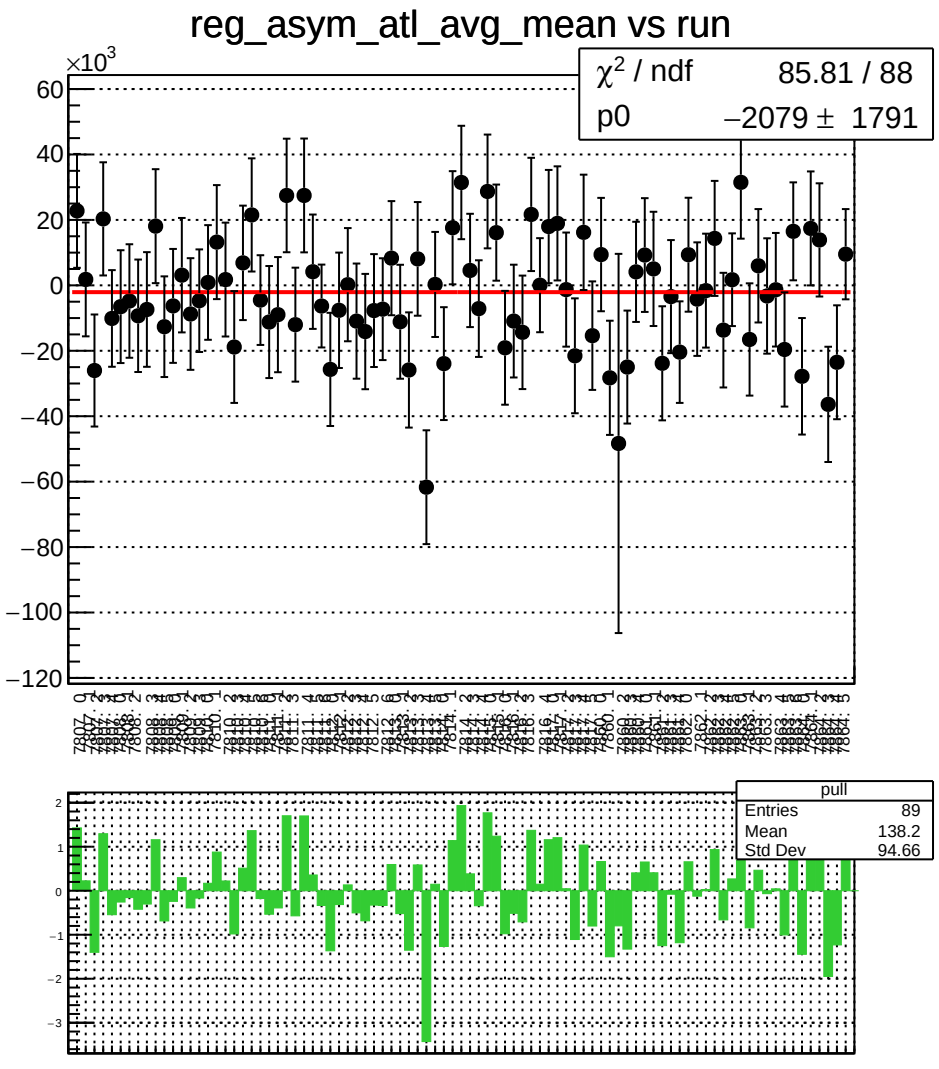

pull1D
Entries 89
Mean 0.02592
Std Dev 0.9283
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

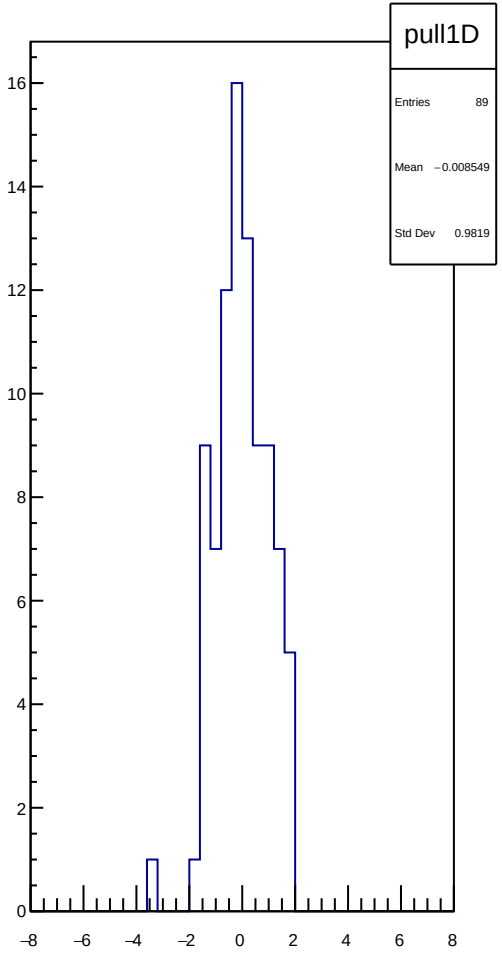

asym_atr2_correction_rms vs run
χ² / ndf 1.892e+04 / 88
p0 1.501e+04 ± 11.53
20000
19000
18000
17000
16000
15000
14000
13000
12000

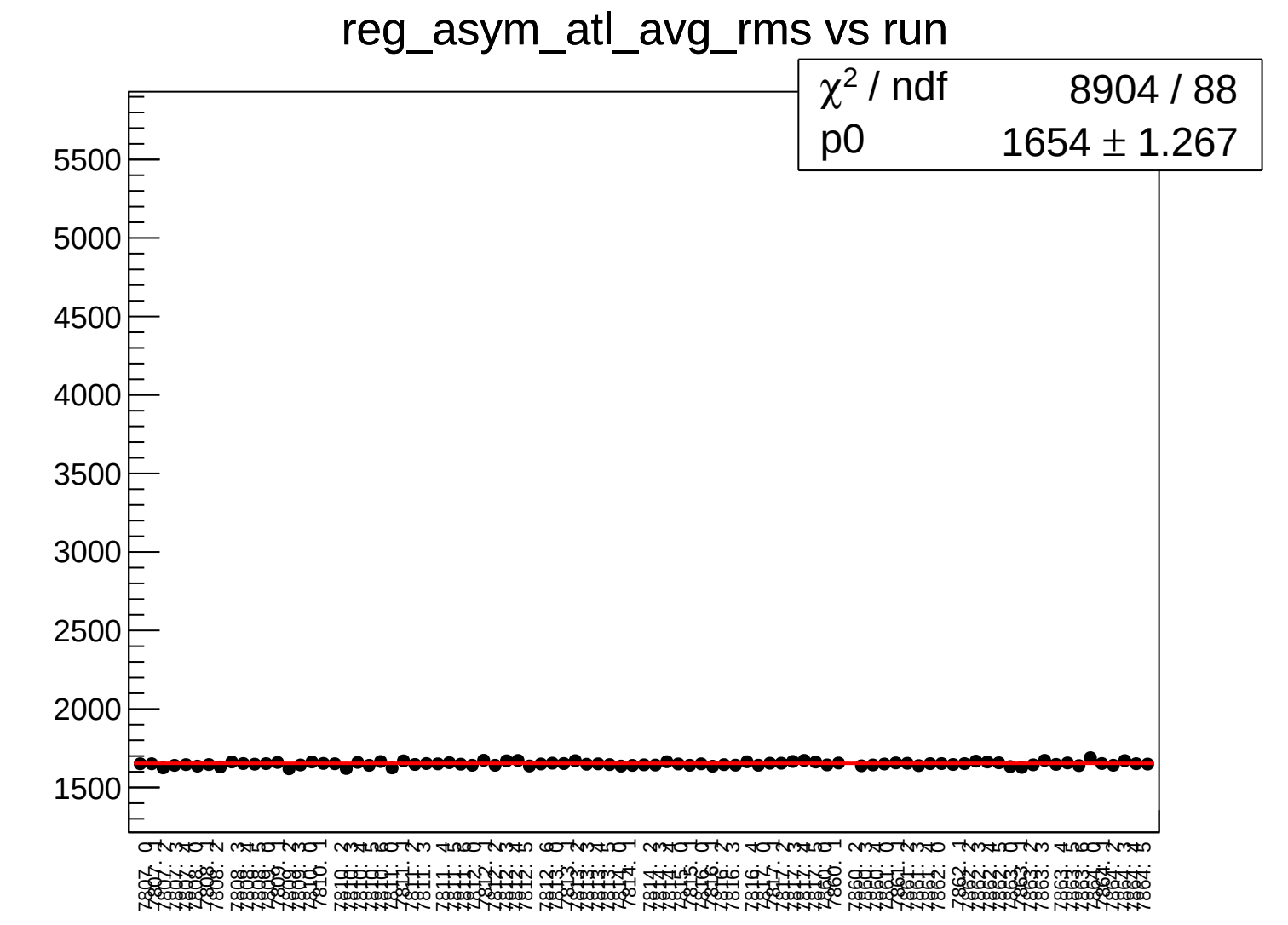

asym_atr2_mean vs run
×10^3
χ² / ndf 75.62 / 88
p0 −1.621e+04 ± 1.66e+04
pull
Entries 89
Mean 107
Std Dev 52.12

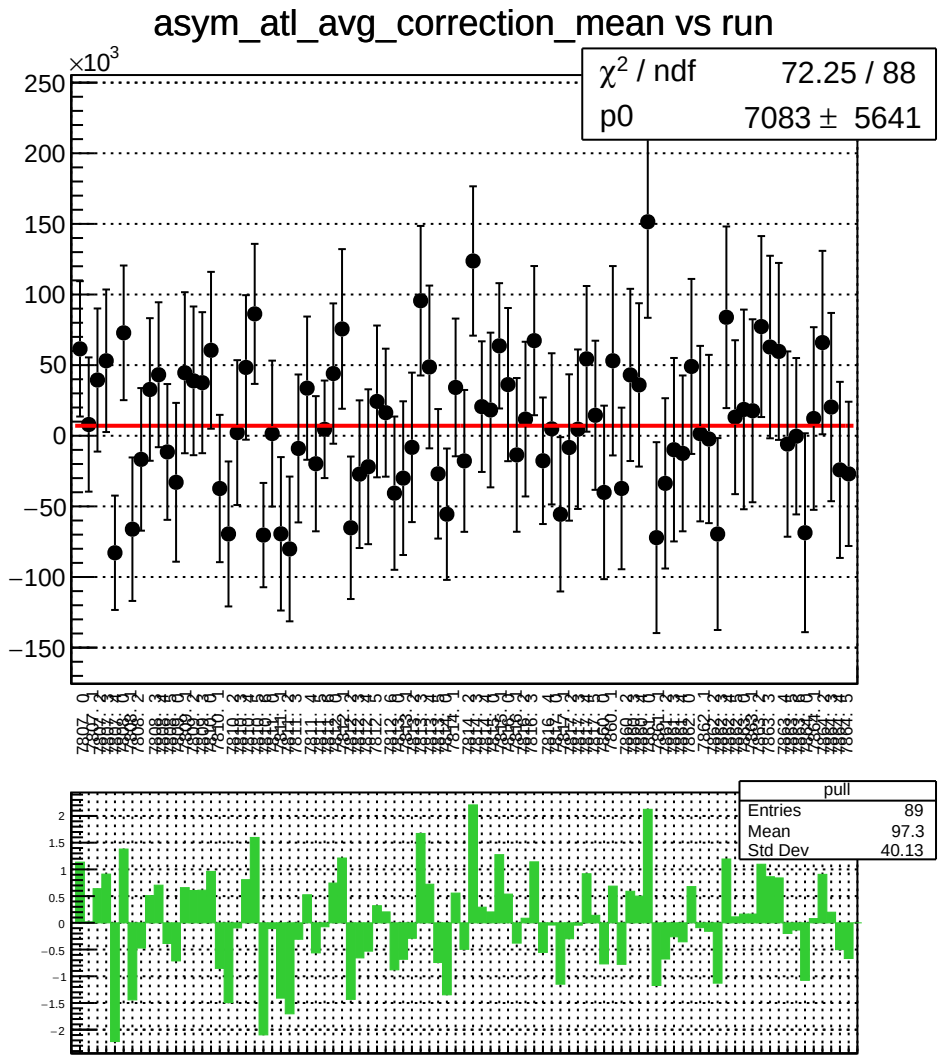

pull1D
Entries 89
Mean −0.0245
Std Dev 0.9214

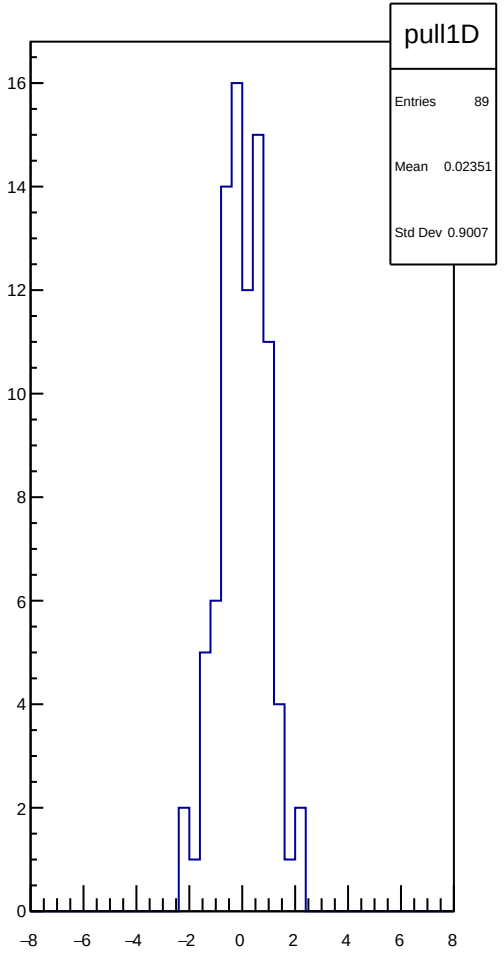

asym_atr2_rms vs run
χ² / ndf 1.774e+04 / 88
p0 1.529e+04 ± 11.74
20000
19000
18000
17000
16000
15000
14000
13000

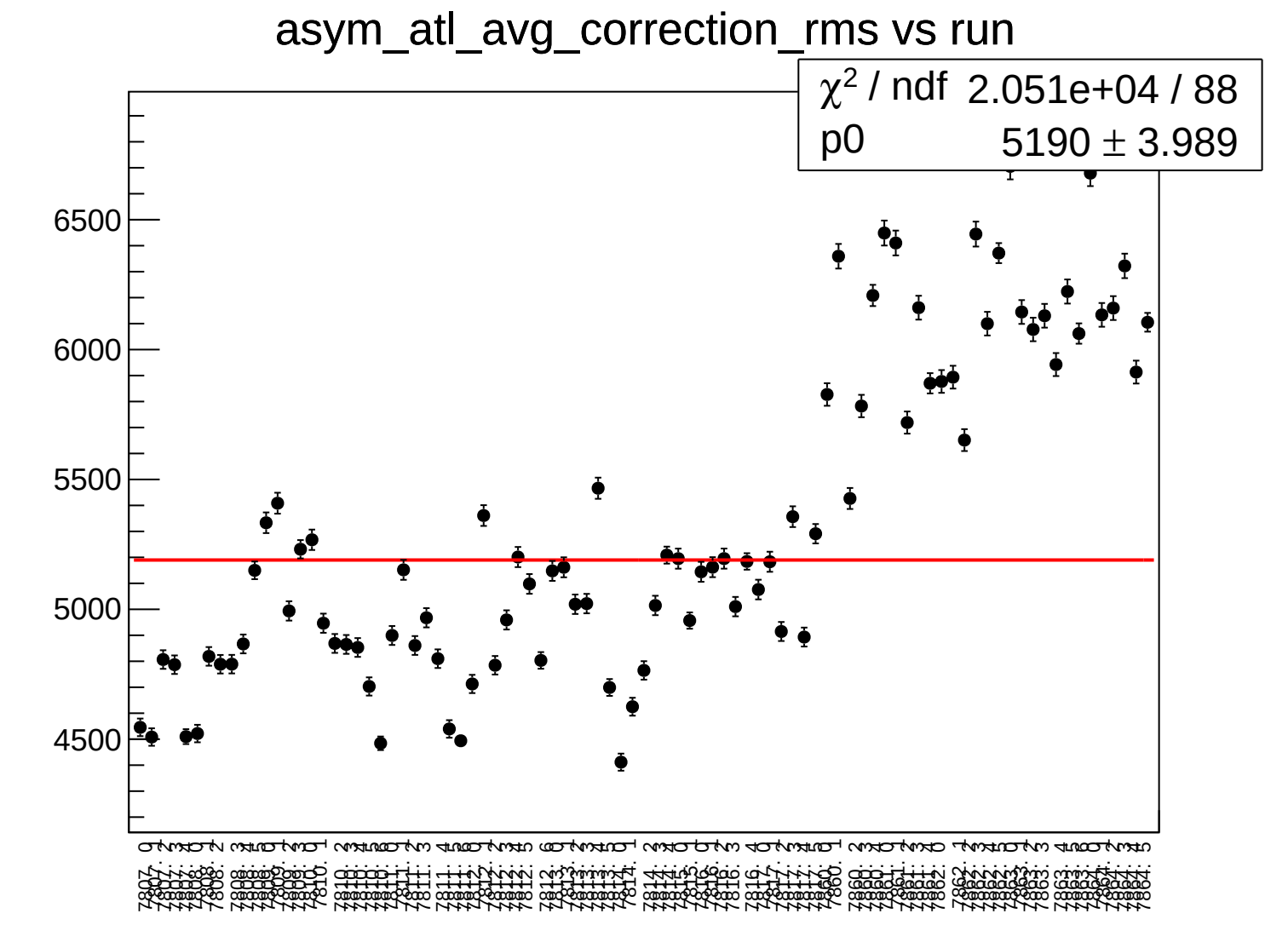

reg_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 85.81 / 88
p0 −2079 ± 1791
pull
Entries 89
Mean 138.2
Std Dev 94.66

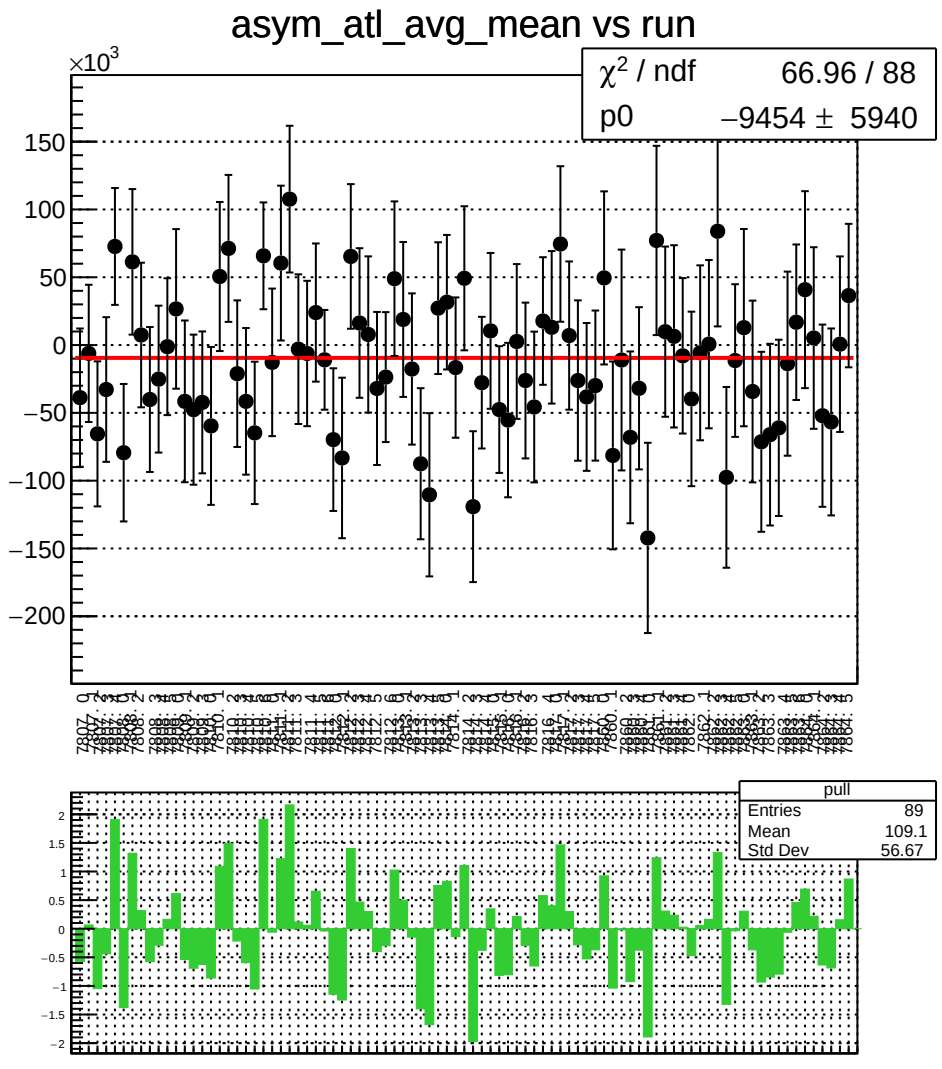

pull1D
Entries 89
Mean −0.008549
Std Dev 0.9819

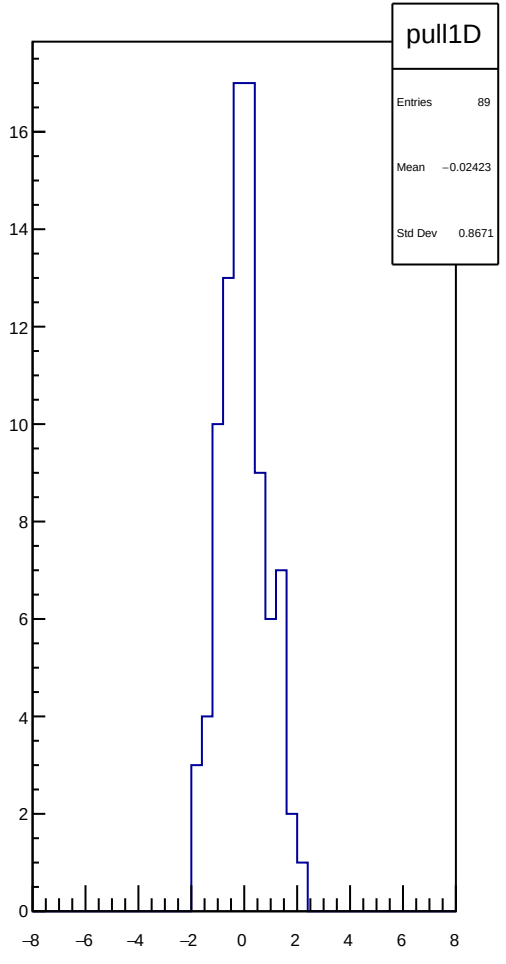

reg_asym_atl_avg_rms vs run
χ^2 / ndf 8904 / 88
p0 1654 ± 1.267
5500
5000
4500
4000
3500
3000
2500
2000
1500

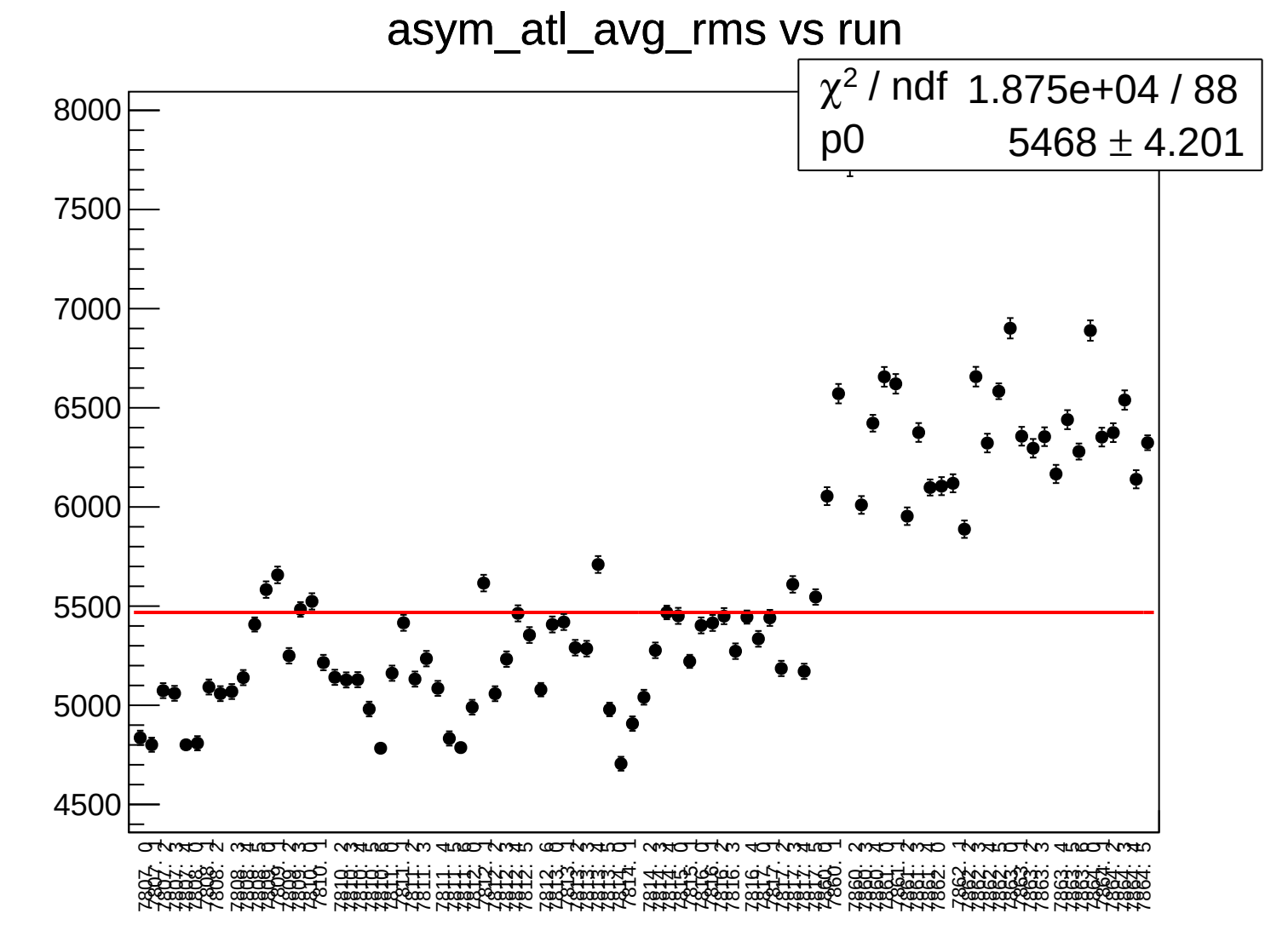

asym_atl_avg_correction_mean vs run
χ² / ndf 72.25 / 88
p0 7083 ± 5641
pull
Entries 89
Mean 97.3
Std Dev 40.13

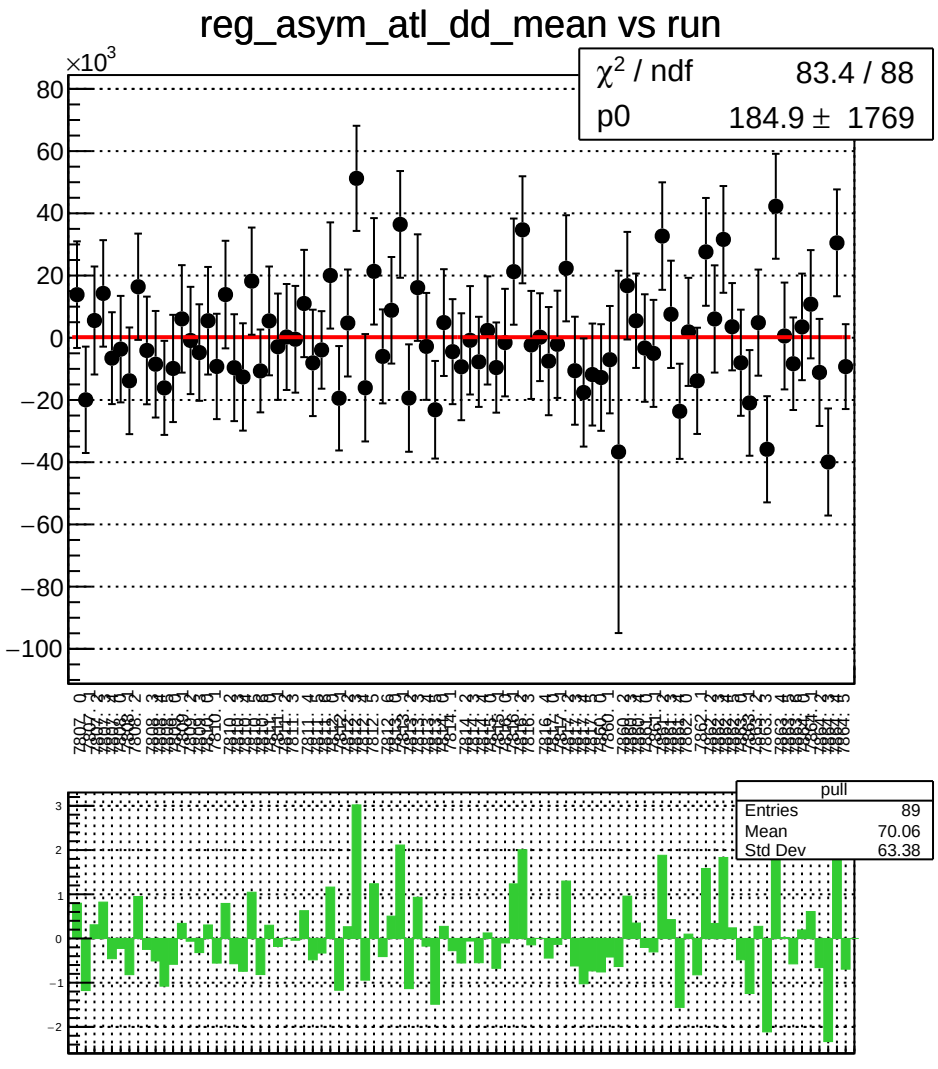

pull1D
Entries 89
Mean 0.02351
Std Dev 0.9007

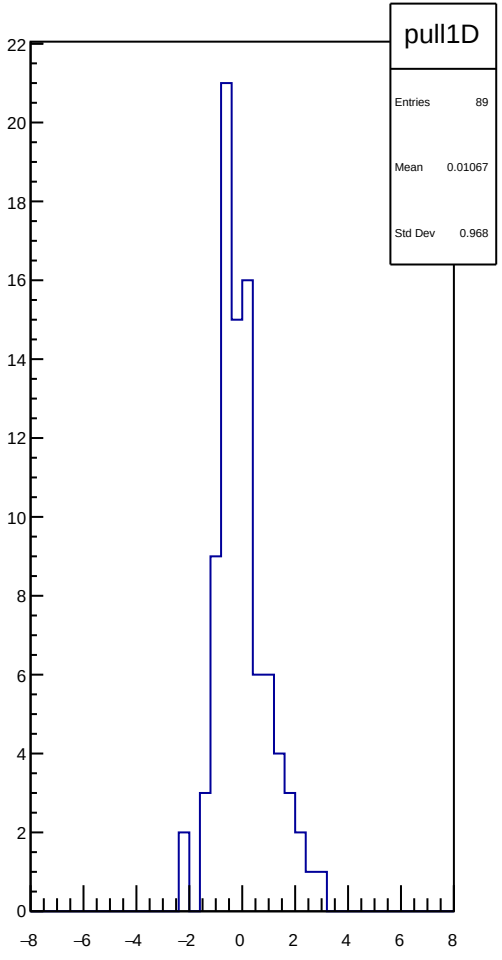

asym_atl_avg_correction_rms vs run
χ² / ndf 2.051e+04 / 88
p0 5190 ± 3.989
6500
6000
5500
5000
4500

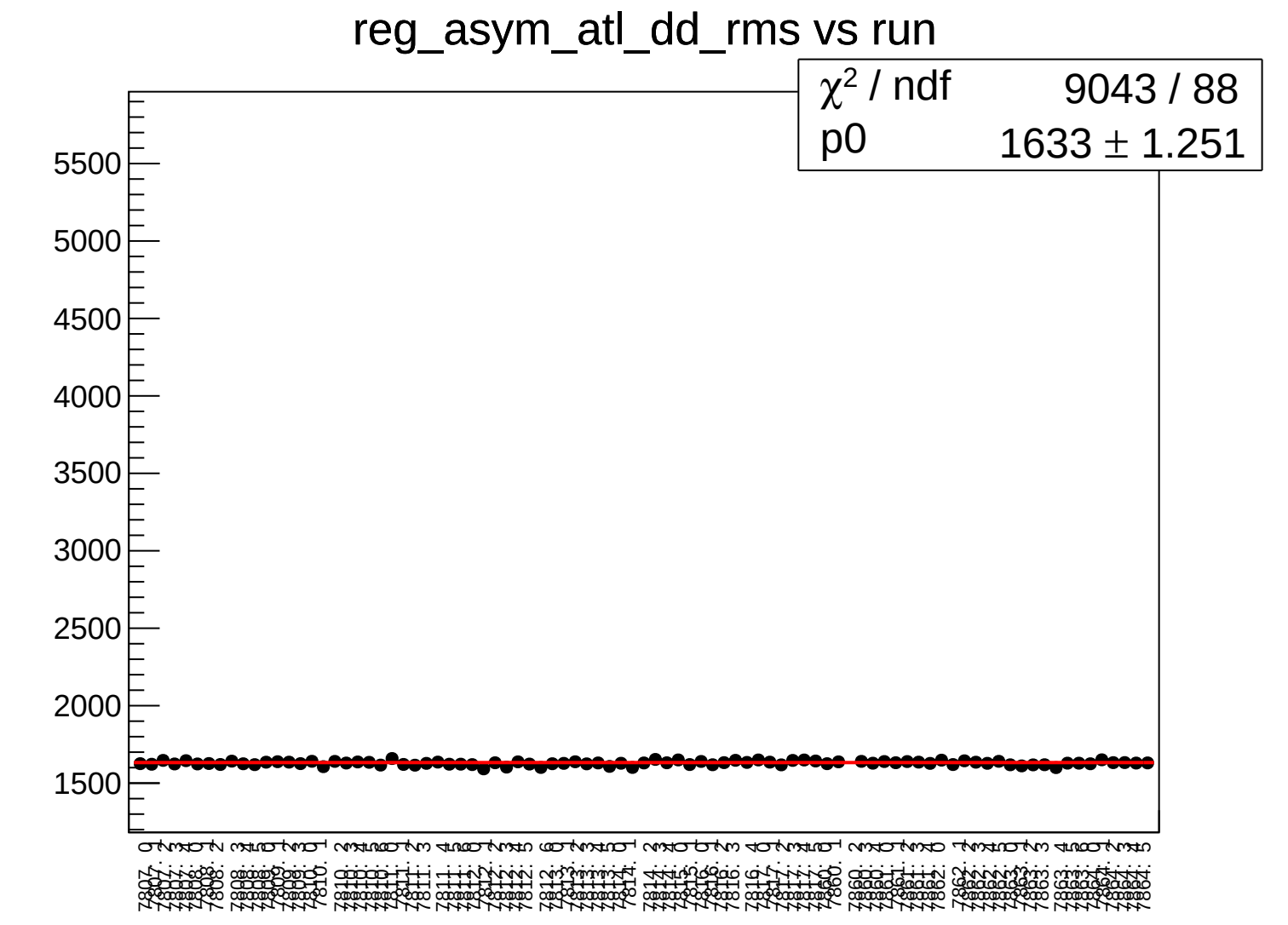

asym_atl_avg_mean vs run
×10^3
χ² / ndf 66.96 / 88
p0 −9454 ± 5940
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 109.1
Std Dev 56.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

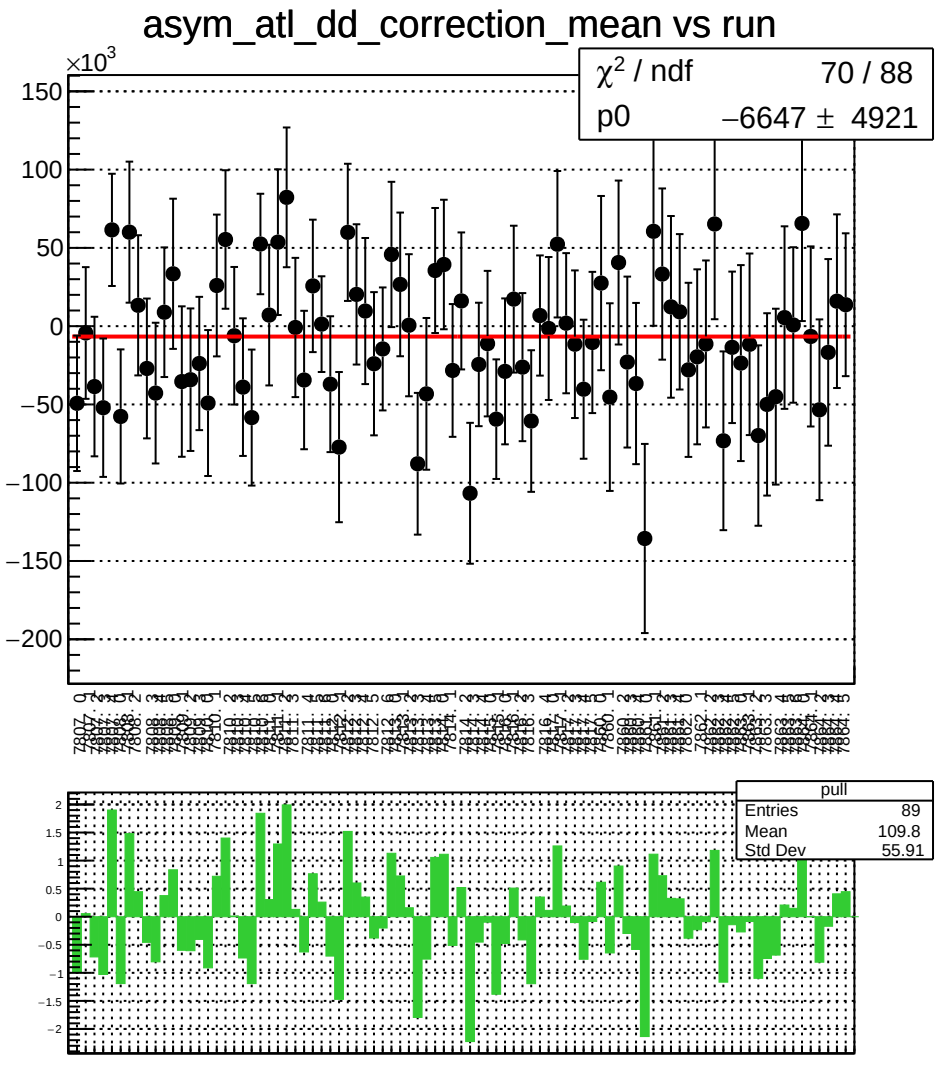

pull1D
Entries 89
Mean −0.02423
Std Dev 0.8671
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

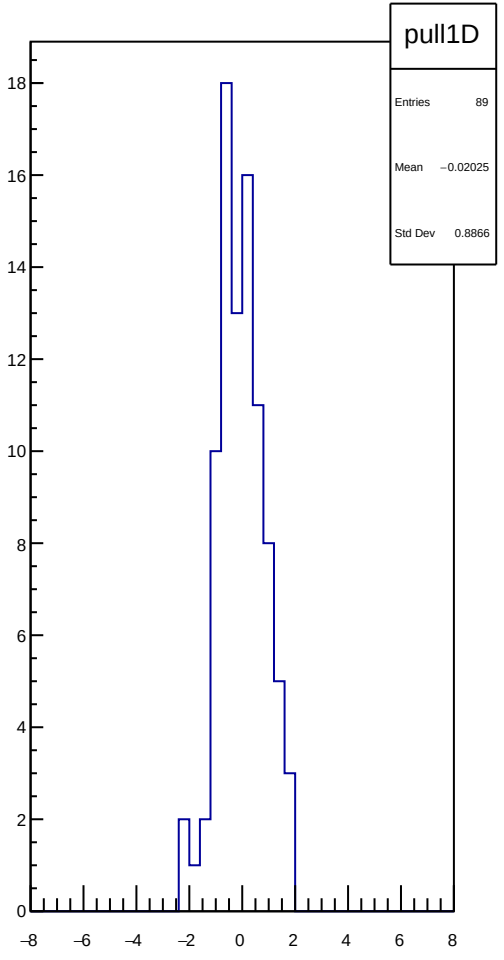

asym_atl_avg_rms vs run
χ² / ndf 1.875e+04 / 88
p0 5468 ± 4.201
8000
7500
7000
6500
6000
5500
5000
4500

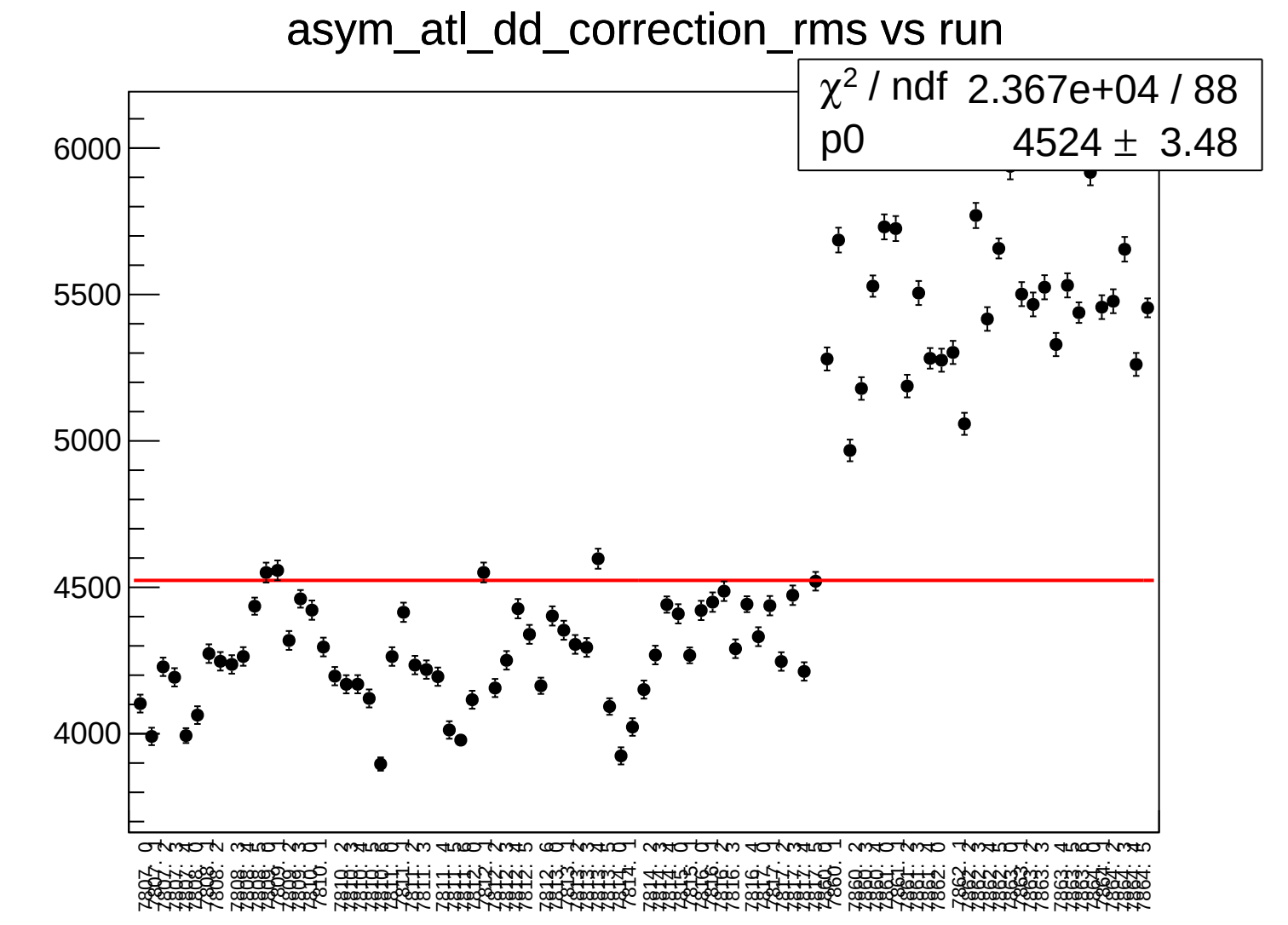

reg_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 83.4 / 88
p0 184.9 ± 1769
pull
Entries 89
Mean 70.06
Std Dev 63.38

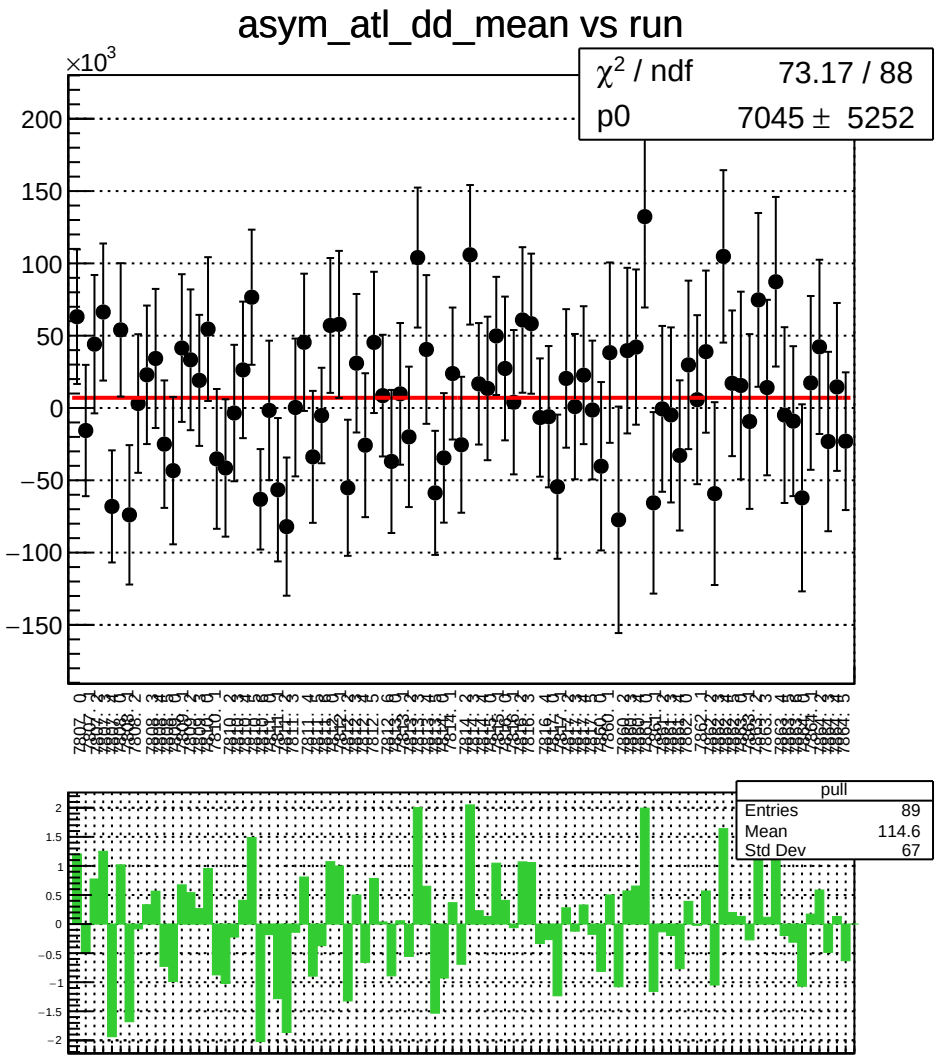

pull1D
Entries 89
Mean 0.01067
Std Dev 0.968

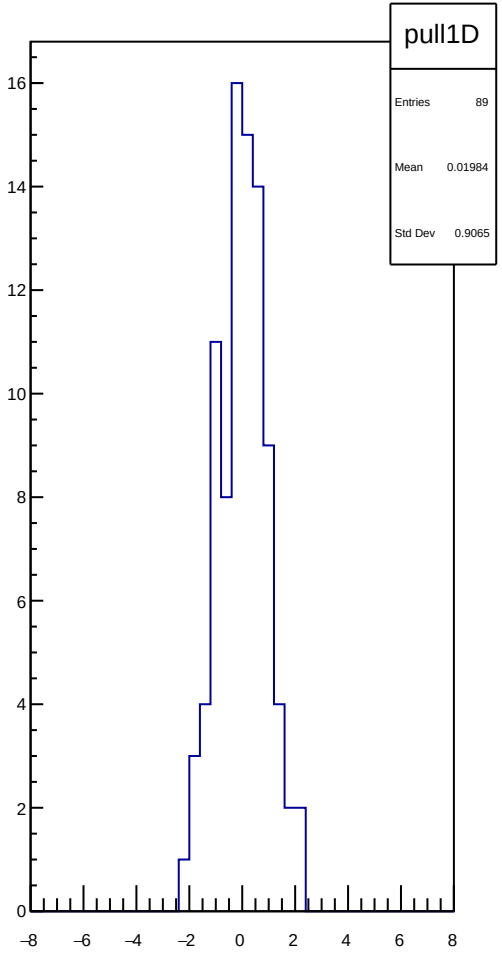

reg_asym_atl_dd_rms vs run
χ^2 / ndf 9043 / 88
p0 1633 ± 1.251
5500
5000
4500
4000
3500
3000
2500
2000
1500

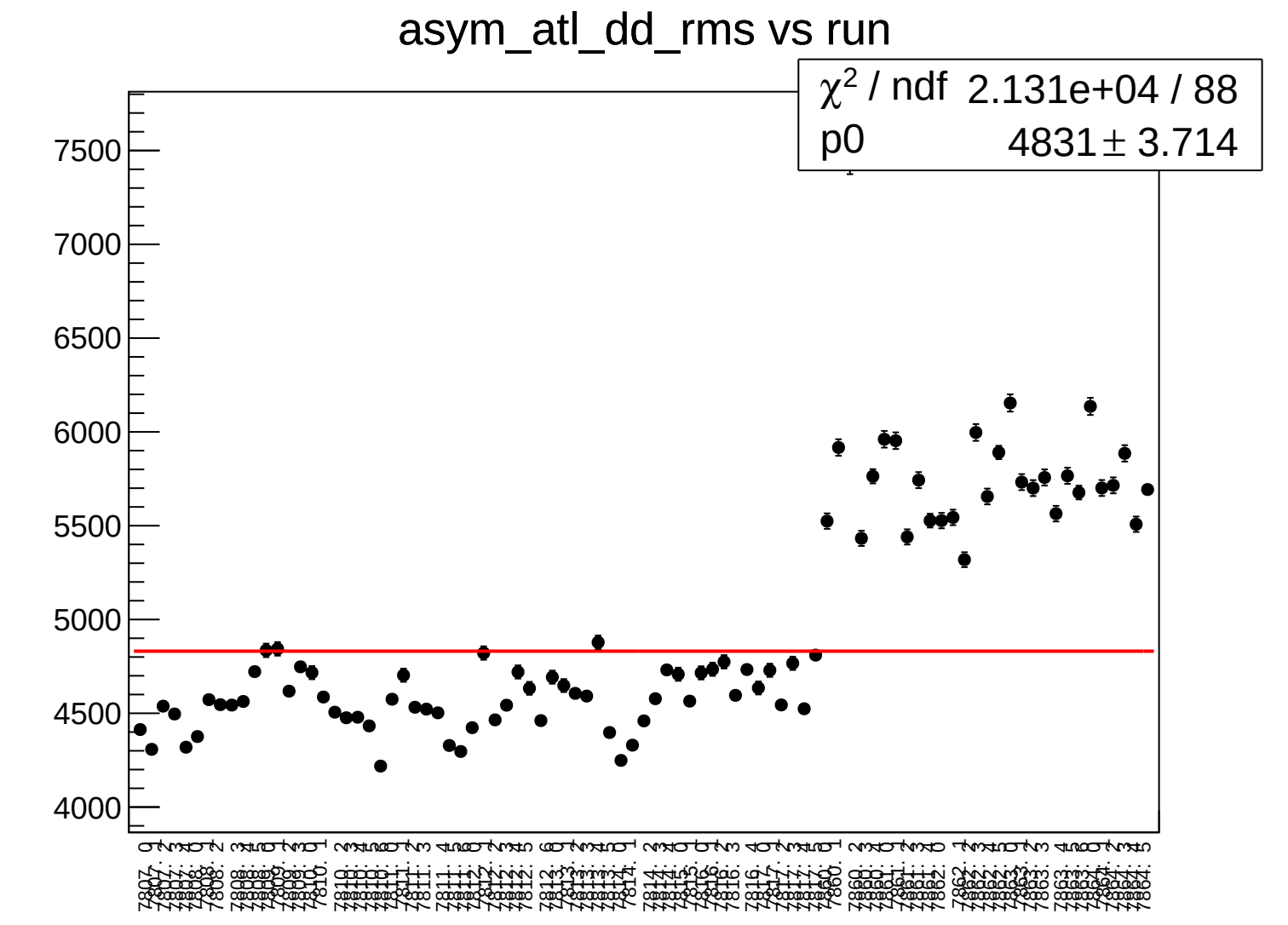

asym_atl_dd_correction_mean vs run
χ² / ndf 70 / 88
p0 −6647 ± 4921
pull
Entries 89
Mean 109.8
Std Dev 55.91

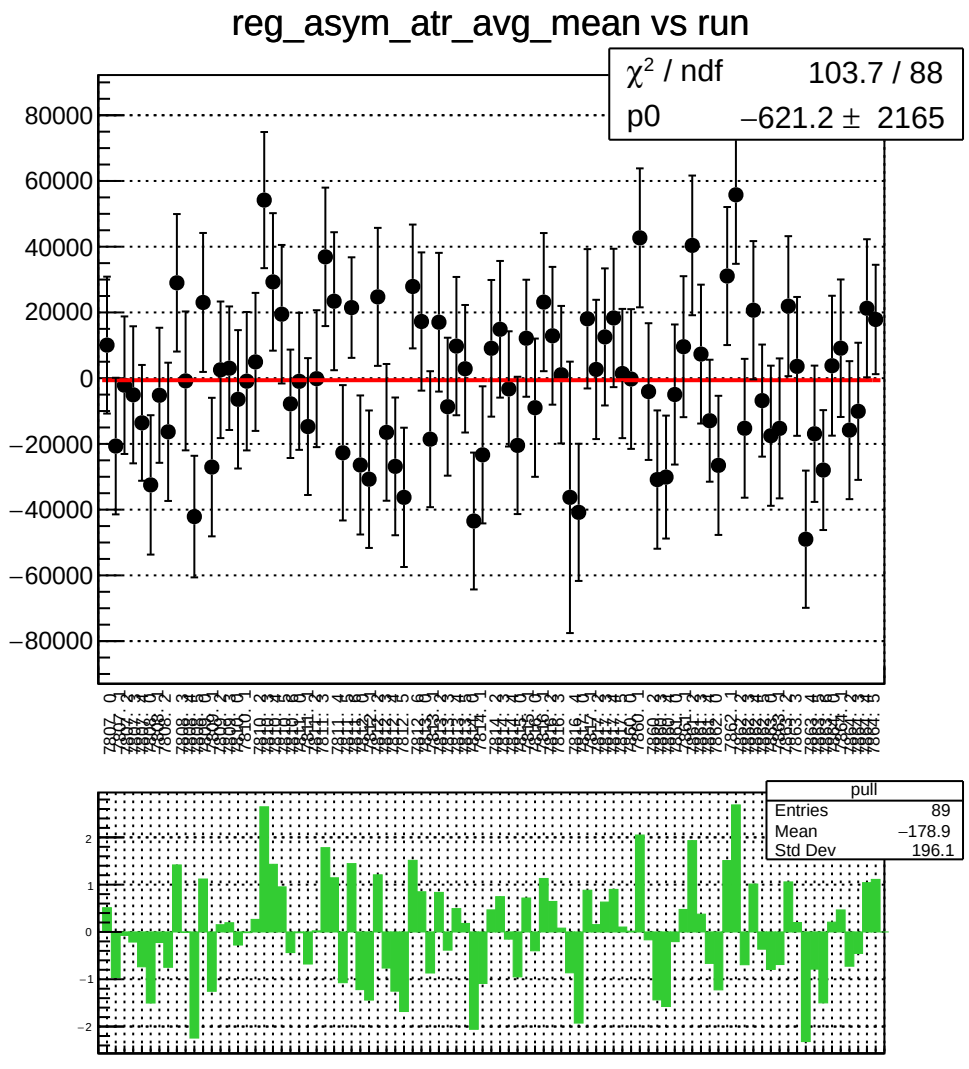

pull1D
Entries 89
Mean −0.02025
Std Dev 0.8866

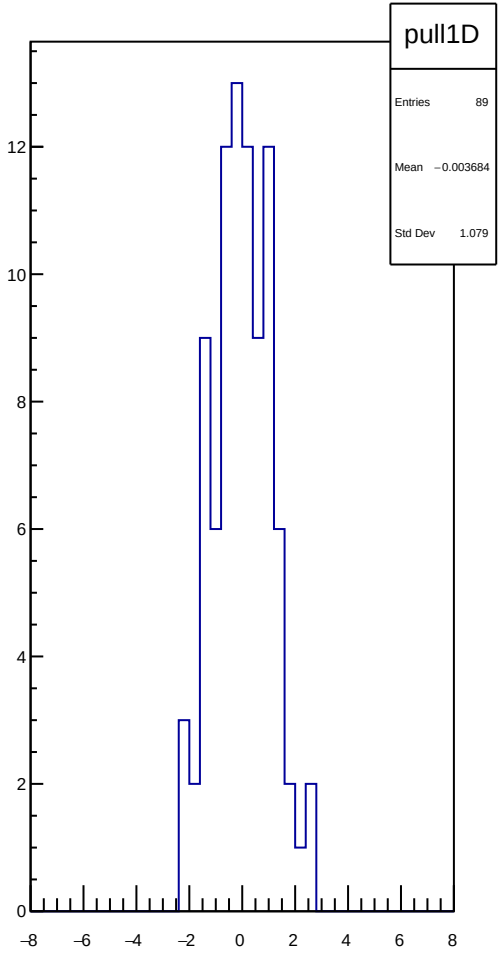

asym_atl_dd_correction_rms vs run
χ² / ndf 2.367e+04 / 88
p0 4524 ± 3.48
6000
5500
5000
4500
4000

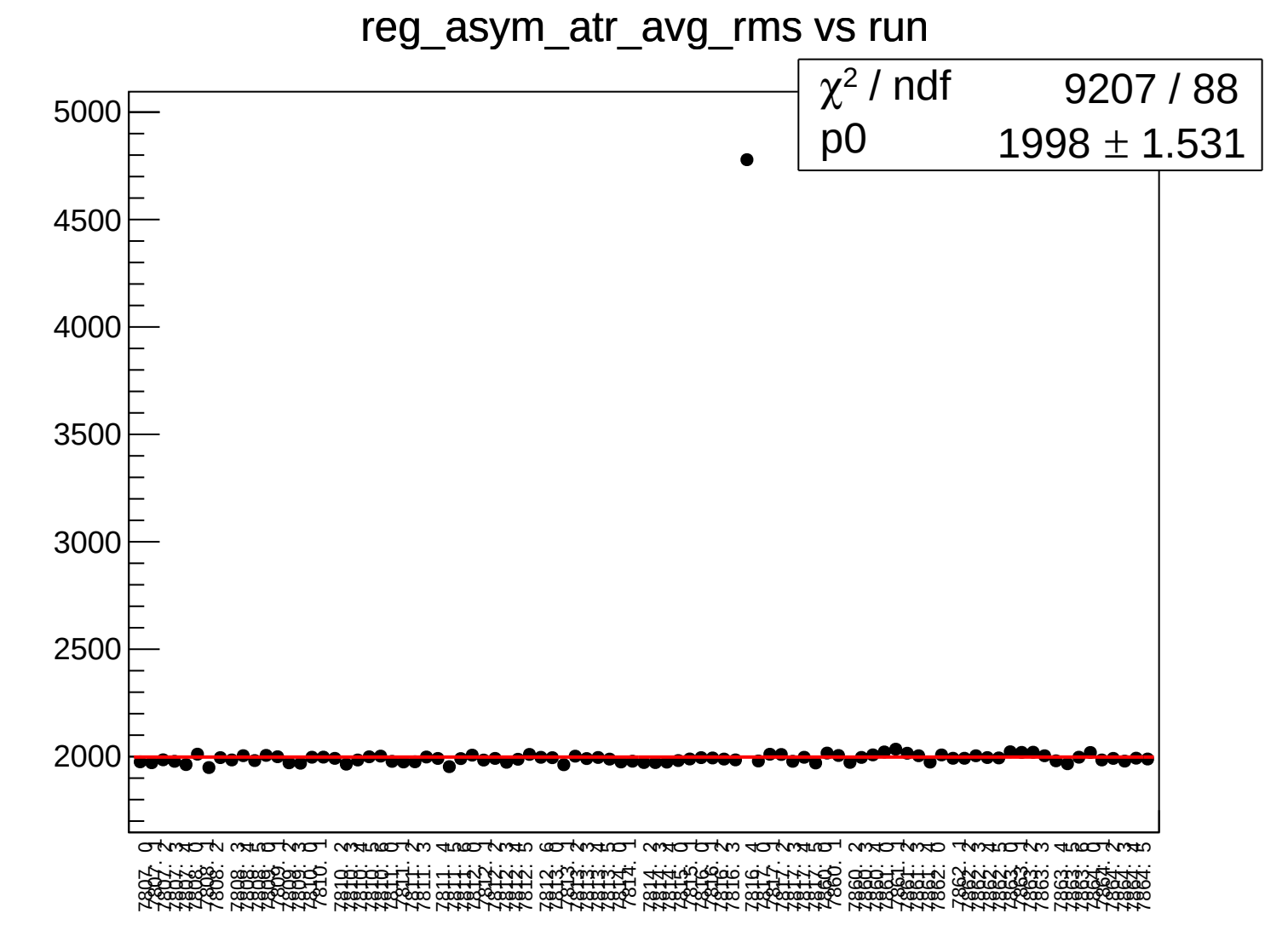

asym_atl_dd_mean vs run
×10^3
χ² / ndf 73.17 / 88
p0 7045 ± 5252
pull
Entries 89
Mean 114.6
Std Dev 67

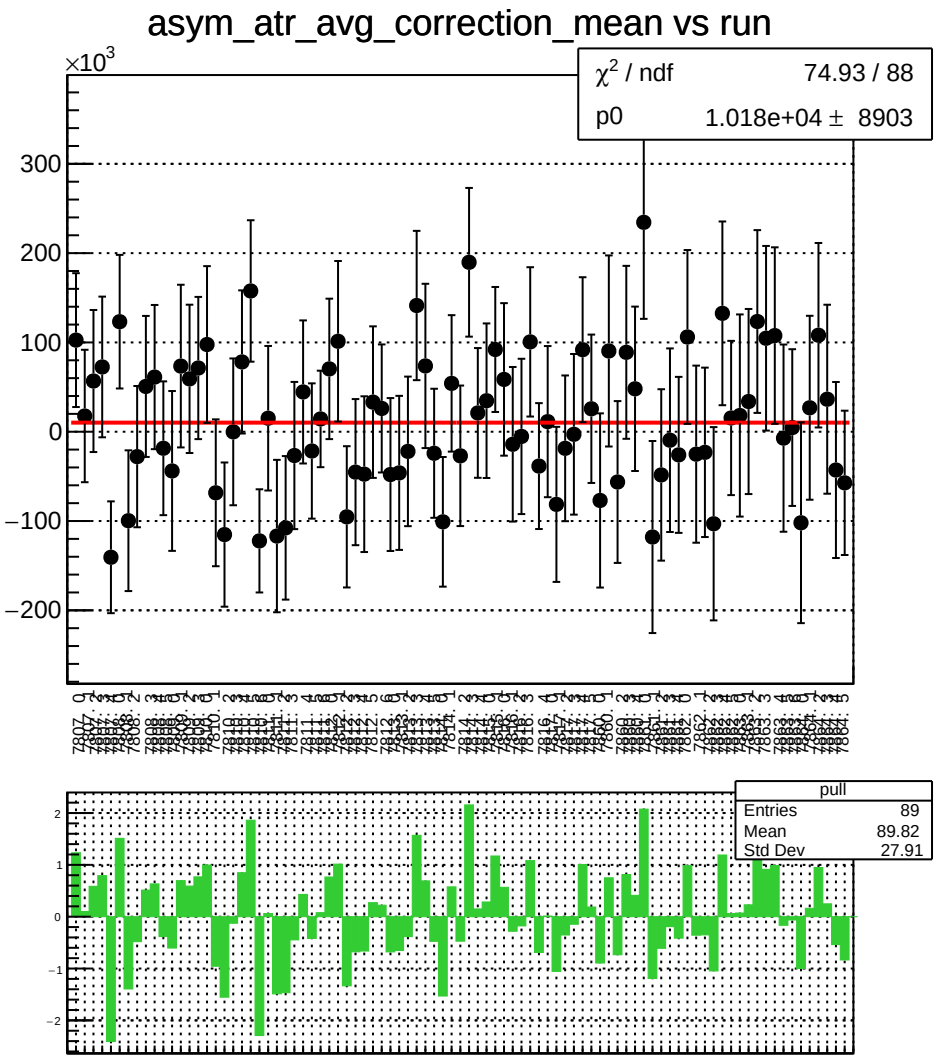

pull1D
Entries 89
Mean 0.01984
Std Dev 0.9065

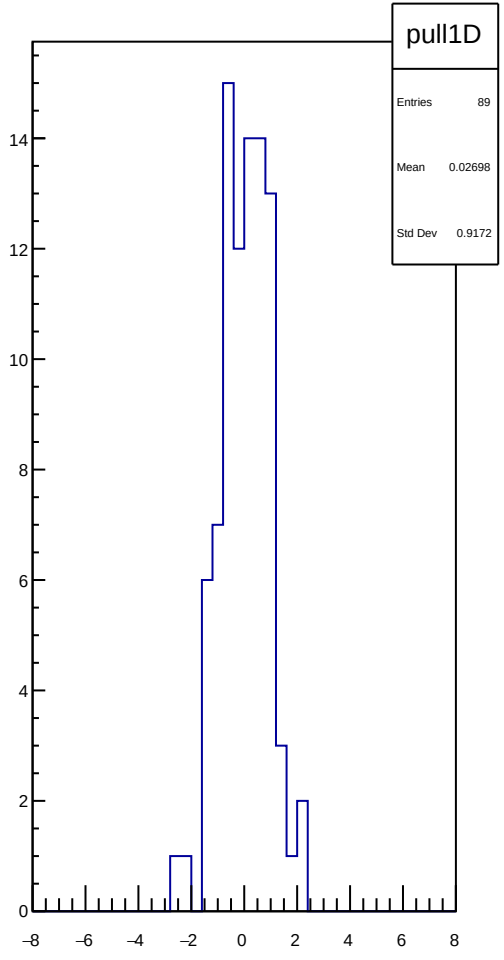

asym_atl_dd_rms vs run
χ² / ndf 2.131e+04 / 88
p0 4831 ± 3.714
7500
7000
6500
6000
5500
5000
4500
4000

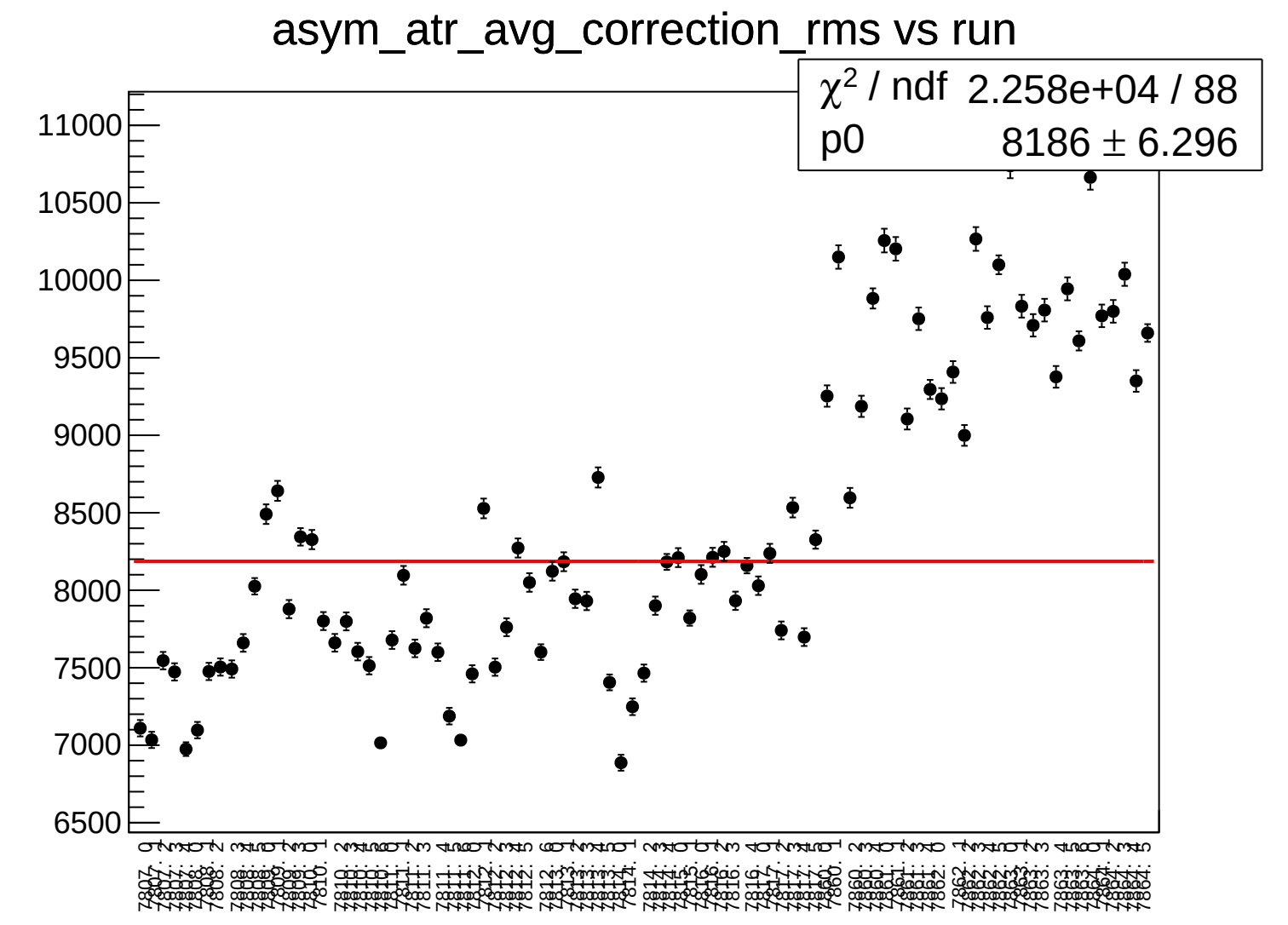

reg_asym_atr_avg_mean vs run
χ² / ndf 103.7 / 88
p0 −621.2 ± 2165
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −178.9
Std Dev 196.1
2
1
0
−1
−2

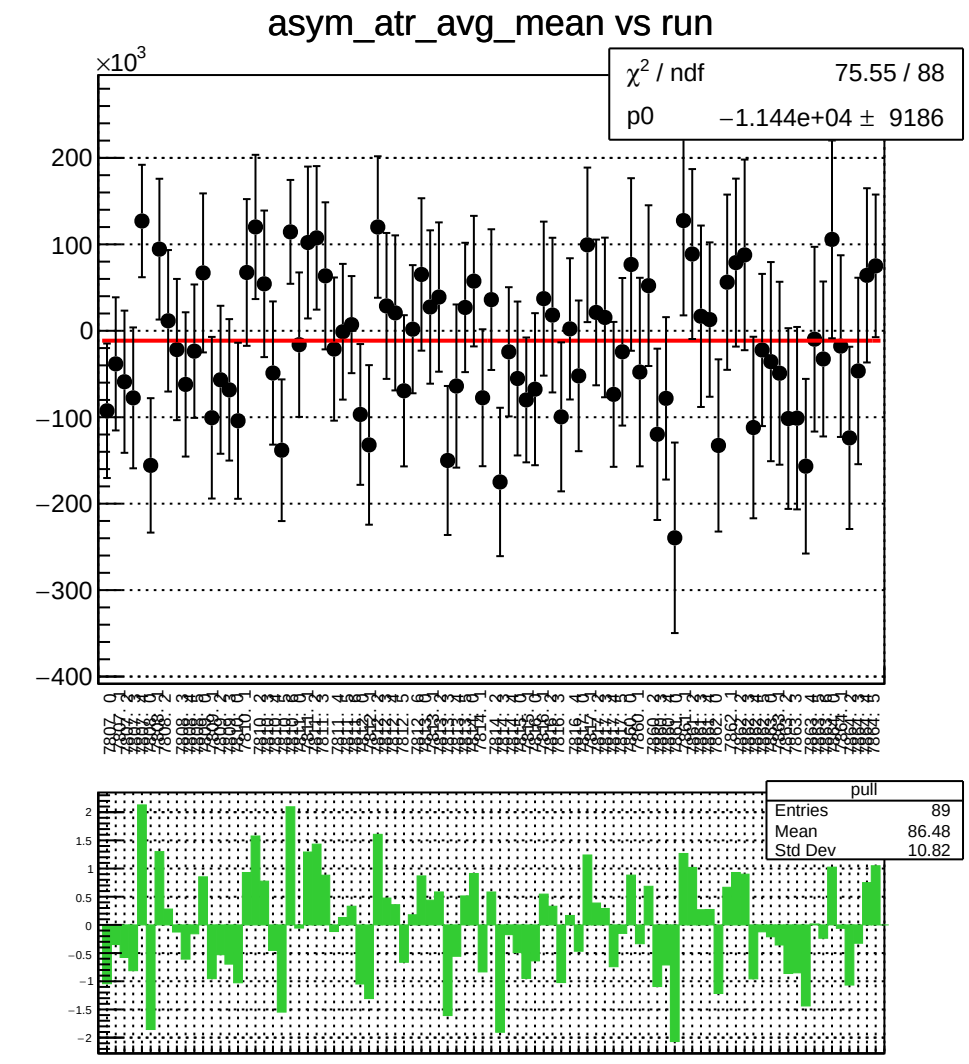

pull1D
Entries 89
Mean −0.003684
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

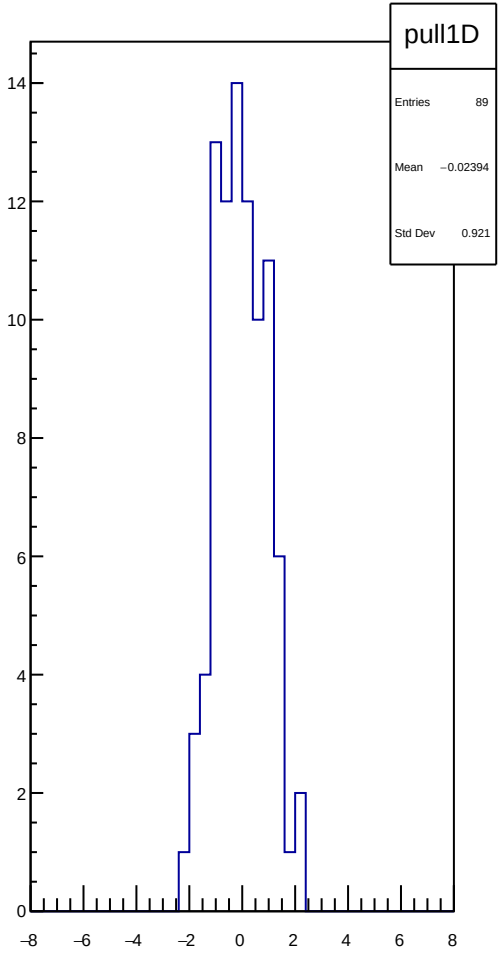

reg_asym_atr_avg_rms vs run
χ^2 / ndf 9207 / 88
p0 1998 ± 1.531
5000
4500
4000
3500
3000
2500
2000

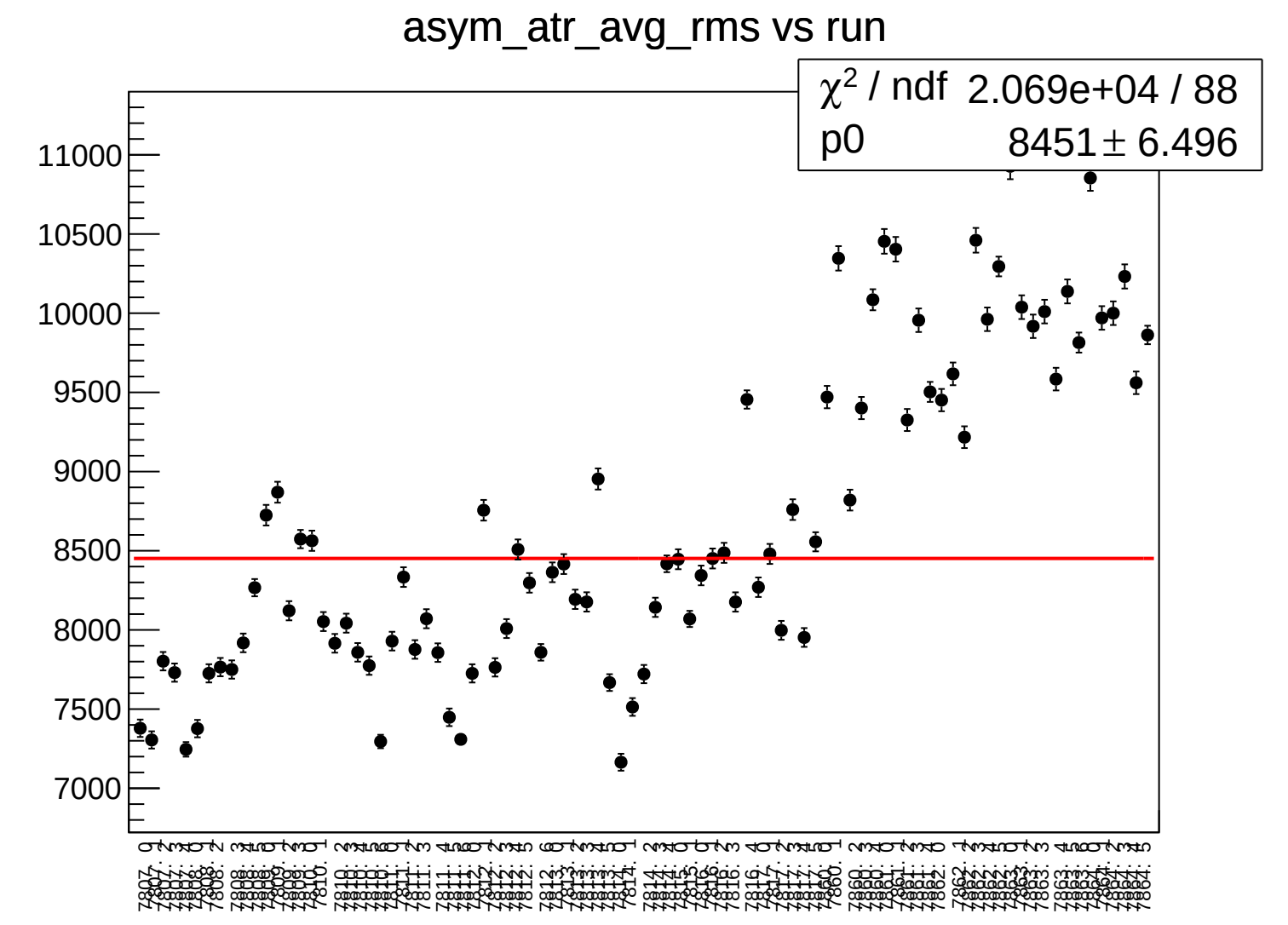

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 74.93 / 88
p0 1.018e+04 ± 8903
300
200
100
0
−100
−200
pull
Entries 89
Mean 89.82
Std Dev 27.91
2
1
0
−1
−2

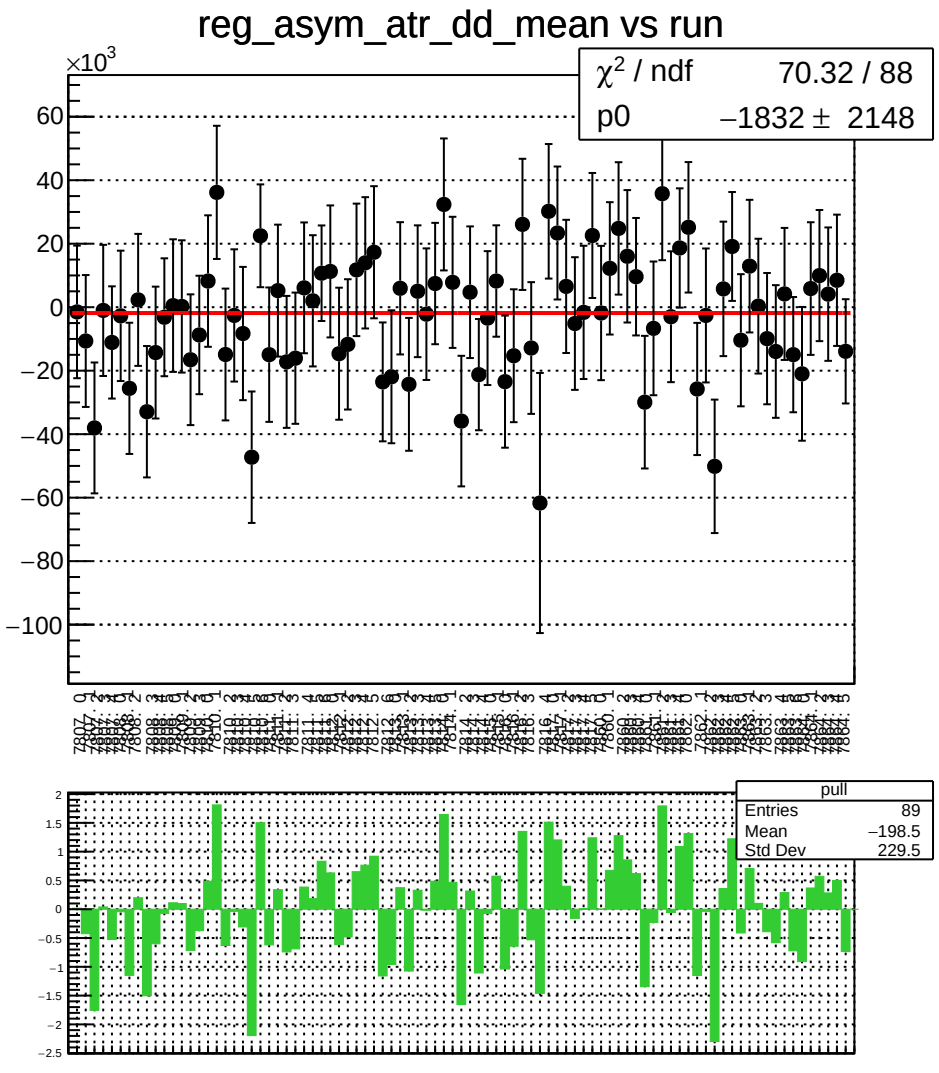

pull1D
Entries 89
Mean 0.02698
Std Dev 0.9172
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

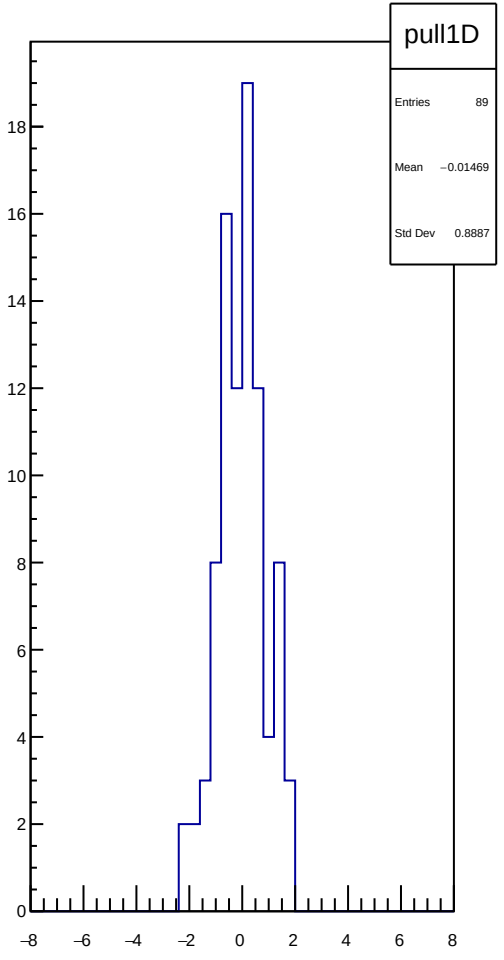

asym_atr_avg_correction_rms vs run
χ² / ndf 2.258e+04 / 88
p0 8186 ± 6.296
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

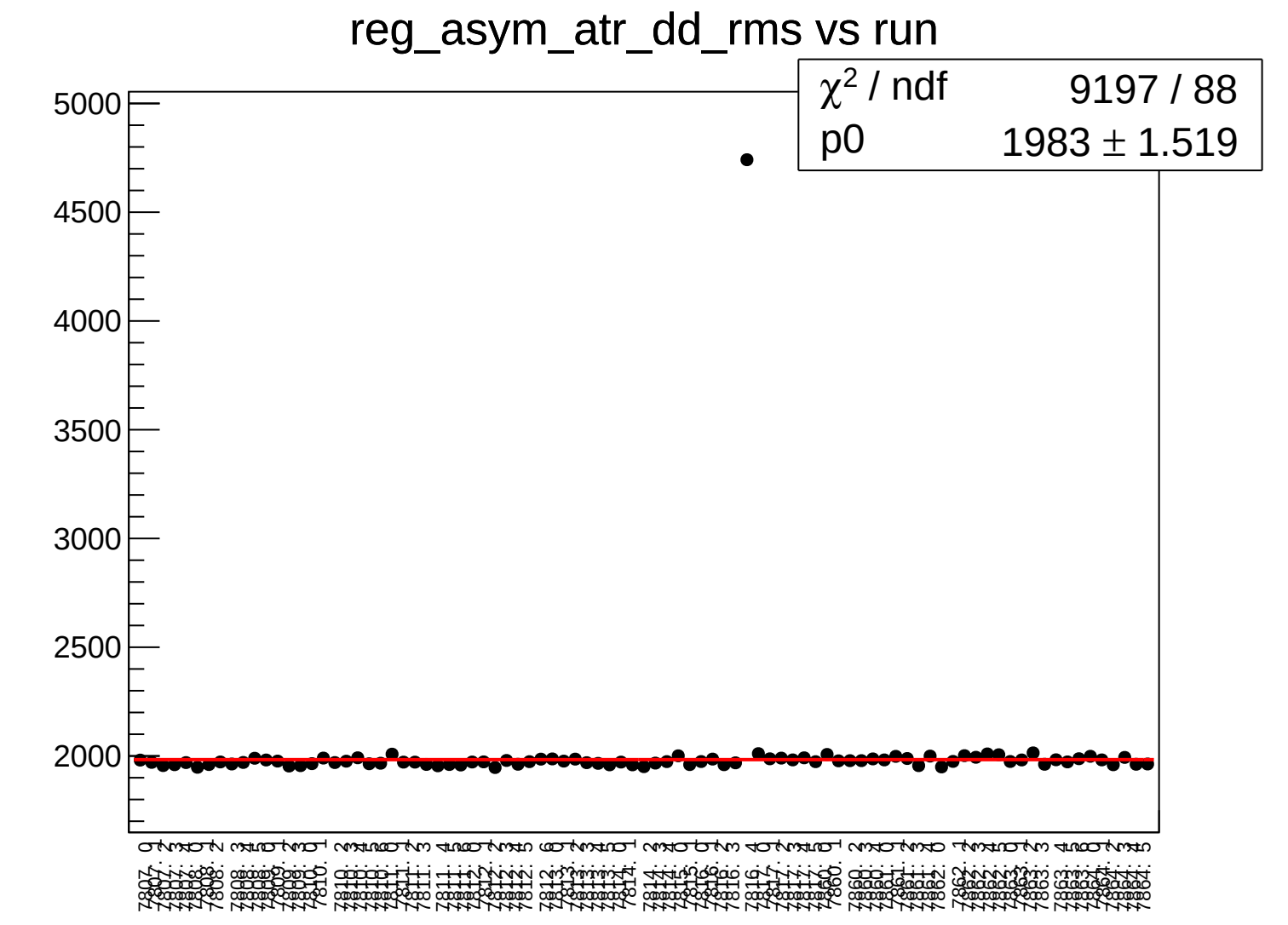

asym_atr_avg_mean vs run
×10^3
χ² / ndf 75.55 / 88
p0 −1.144e+04 ± 9186
200
100
0
−100
−200
−300
−400
pull
Entries 89
Mean 86.48
Std Dev 10.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

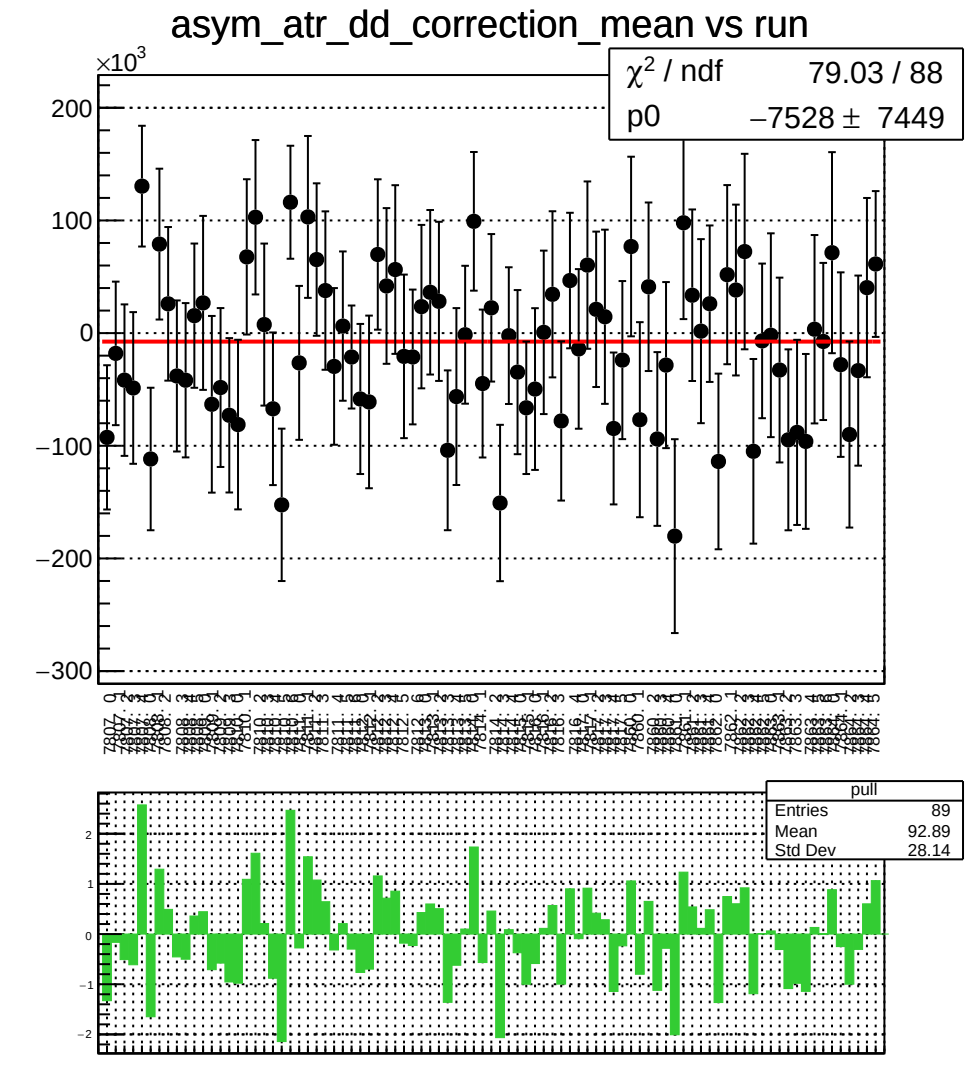

pull1D
Entries 89
Mean −0.02394
Std Dev 0.921
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

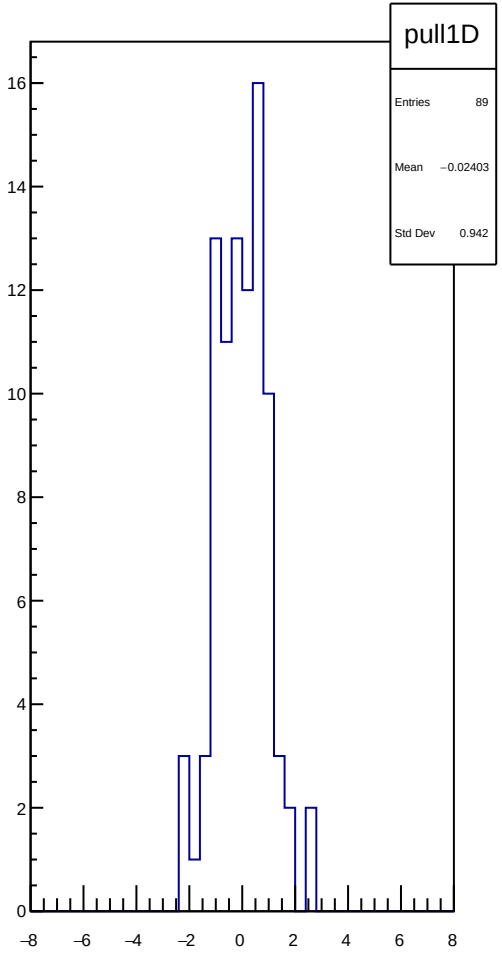

asym_atr_avg_rms vs run
χ^2 / ndf 2.069e+04 / 88
p0 8451 ± 6.496
11000
10500
10000
9500
9000
8500
8000
7500
7000

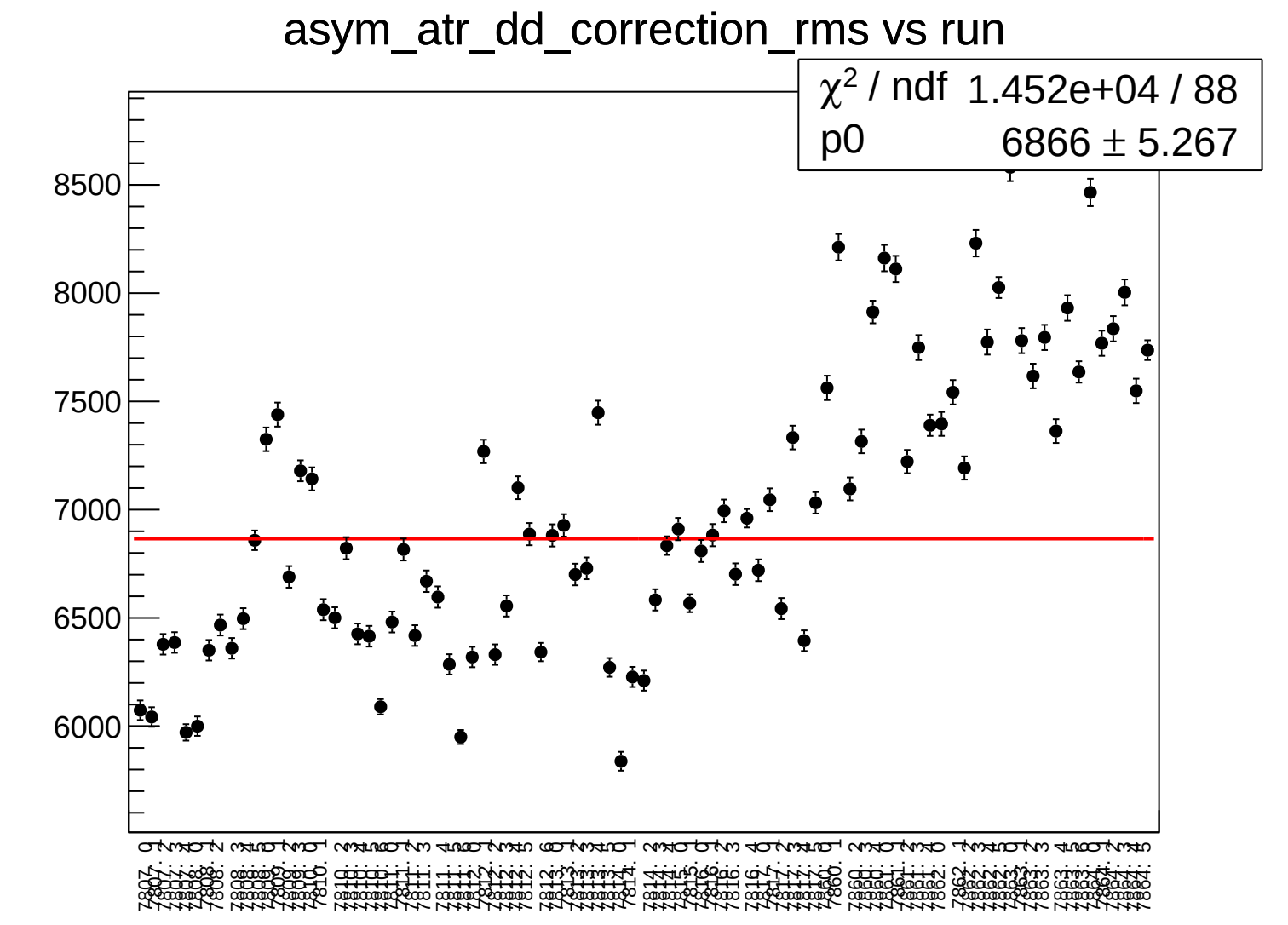

reg_asym_atr_dd_mean vs run
χ^2 / ndf 70.32 / 88
p0 −1832 ± 2148
×10^3
pull
Entries 89
Mean −198.5
Std Dev 229.5

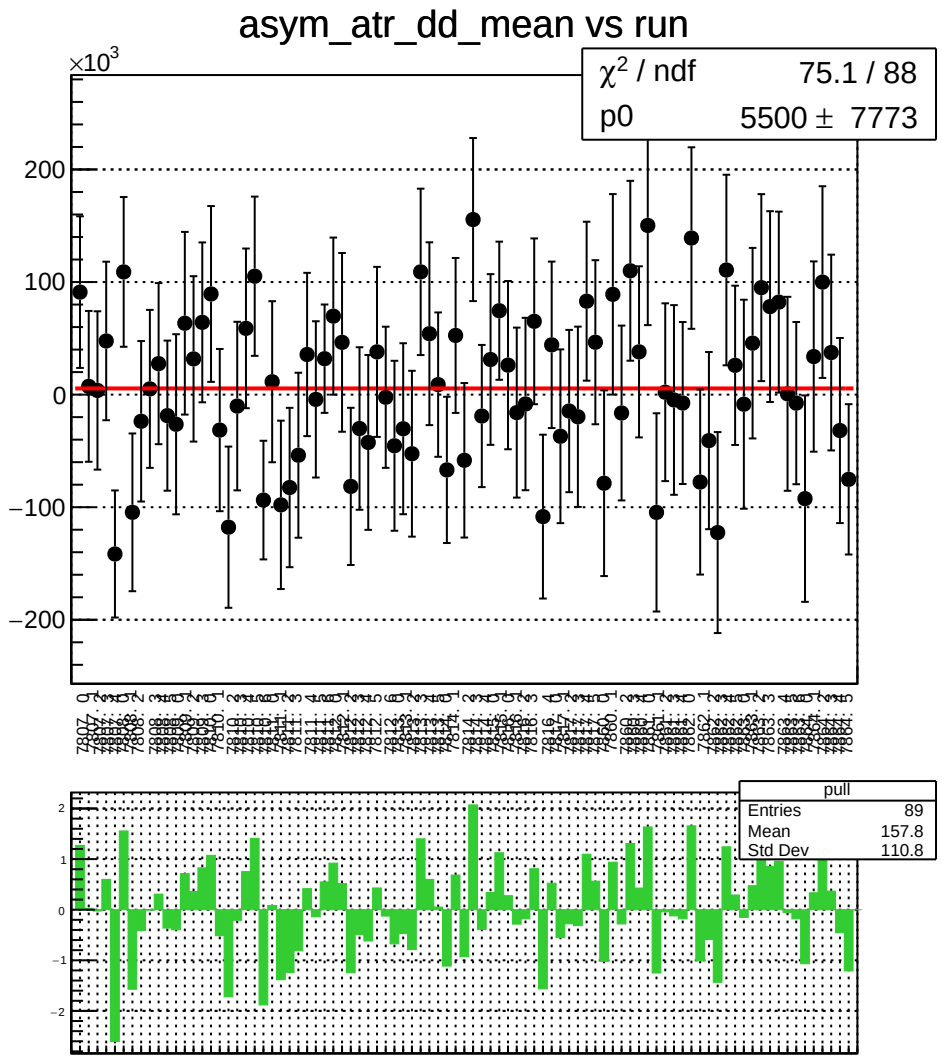

pull1D
Entries 89
Mean −0.01469
Std Dev 0.8887

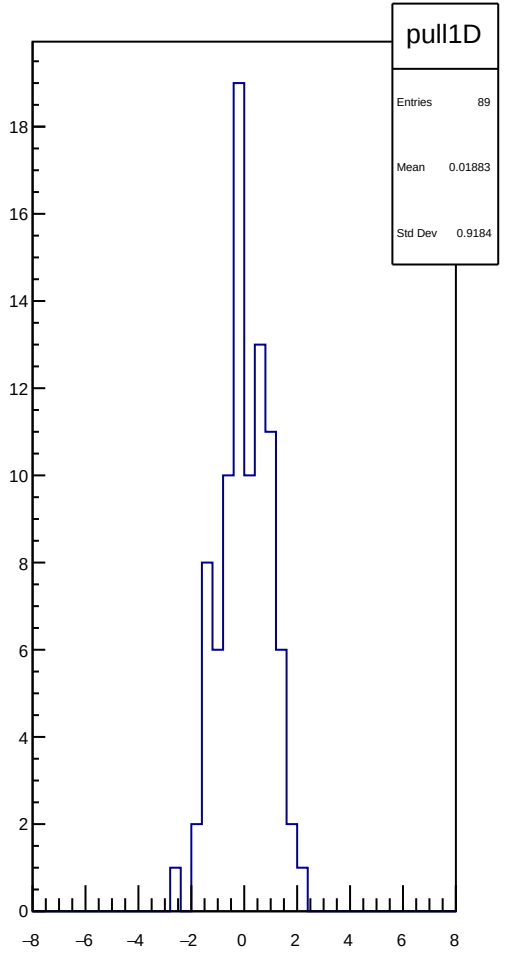

reg_asym_atr_dd_rms vs run
χ^2 / ndf 9197 / 88
p0 1983 ± 1.519
5000
4500
4000
3500
3000
2500
2000

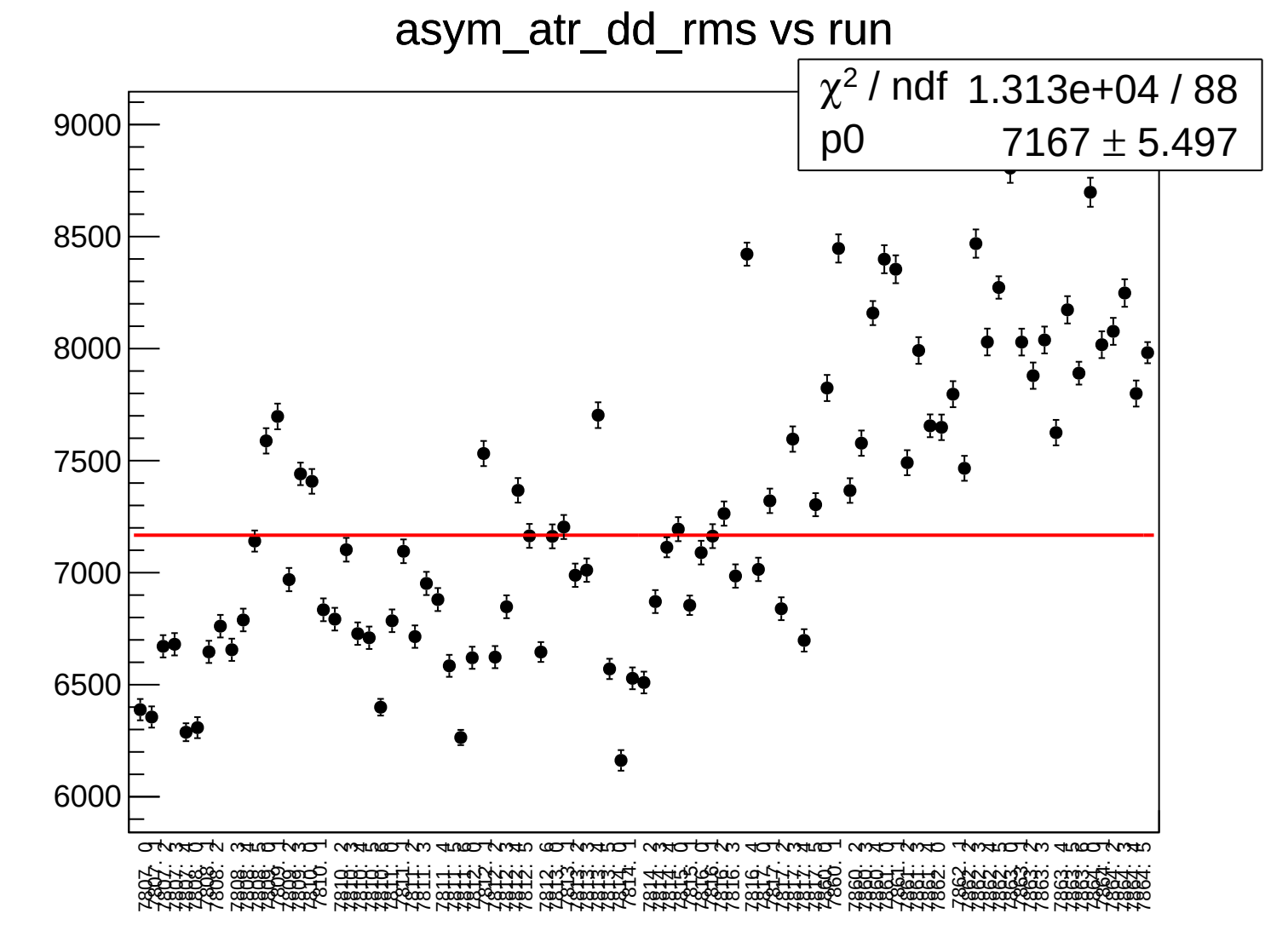

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 79.03 / 88
p0 −7528 ± 7449
200
100
0
−100
−200
−300
pull
Entries 89
Mean 92.89
Std Dev 28.14
2
1
0
−1
−2

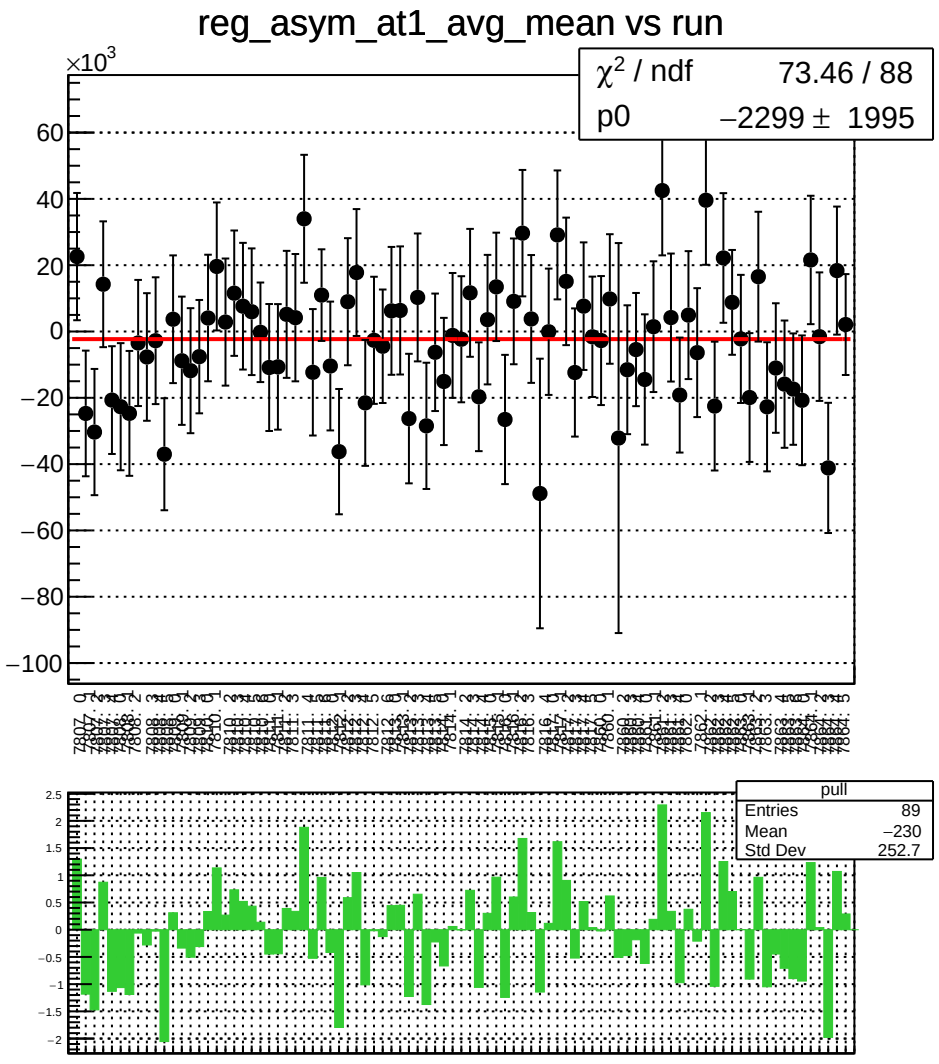

pull1D
Entries 89
Mean −0.02403
Std Dev 0.942
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

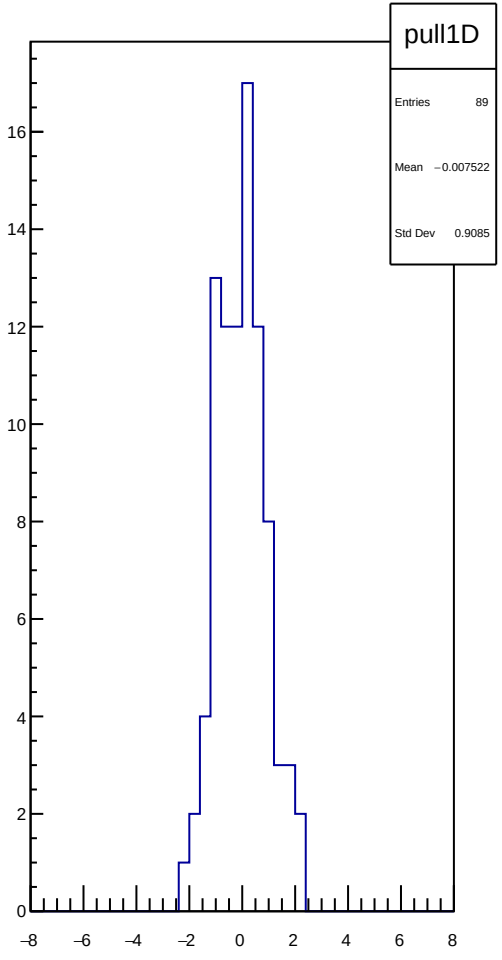

asym_atr_dd_correction_rms vs run
χ² / ndf 1.452e+04 / 88
p0 6866 ± 5.267
8500
8000
7500
7000
6500
6000

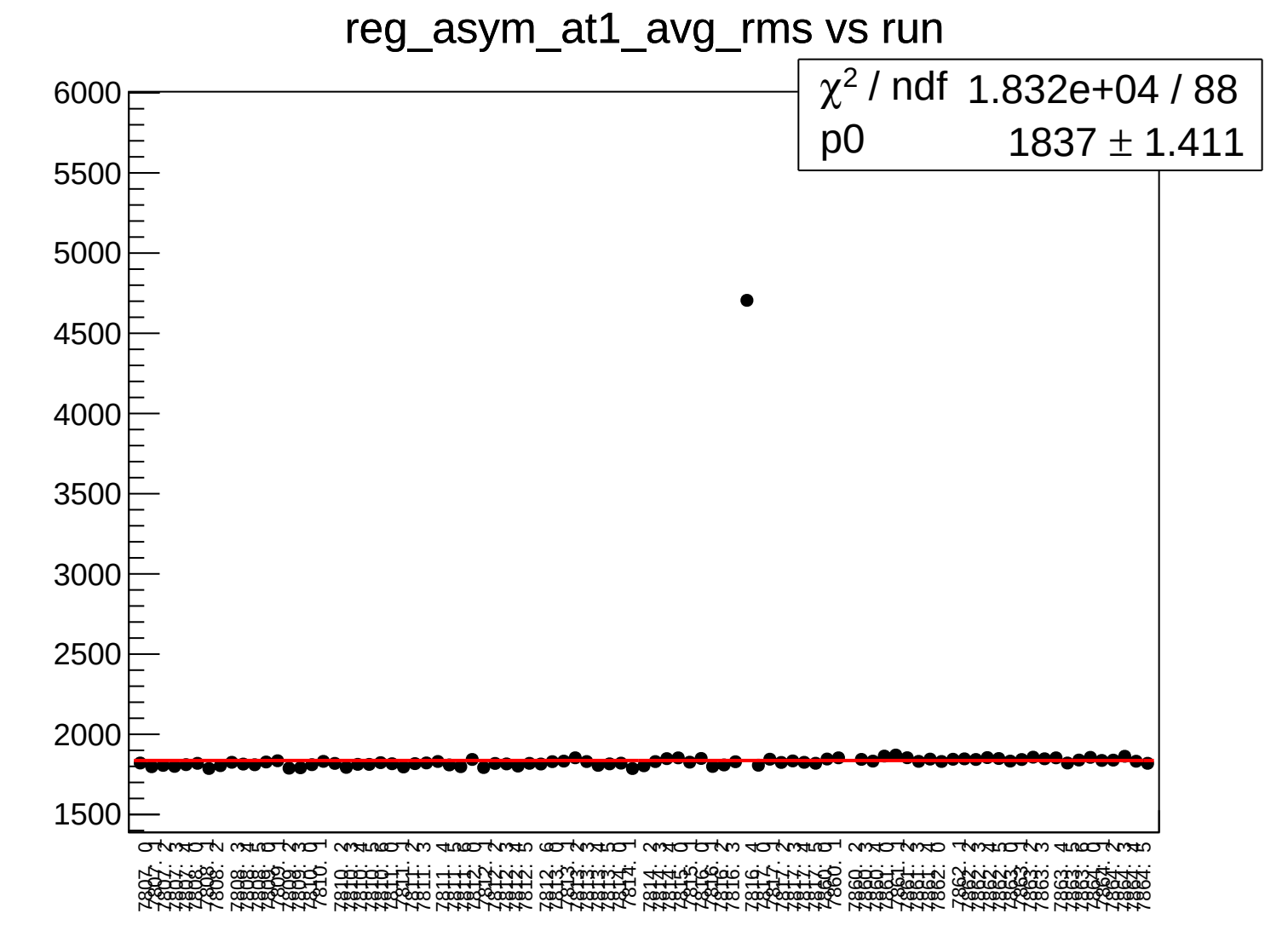

asym_atr_dd_mean vs run
×10^3
χ² / ndf 75.1 / 88
p0 5500 ± 7773
200
100
0
−100
−200
pull
Entries 89
Mean 157.8
Std Dev 110.8
2
1
0
−1
−2

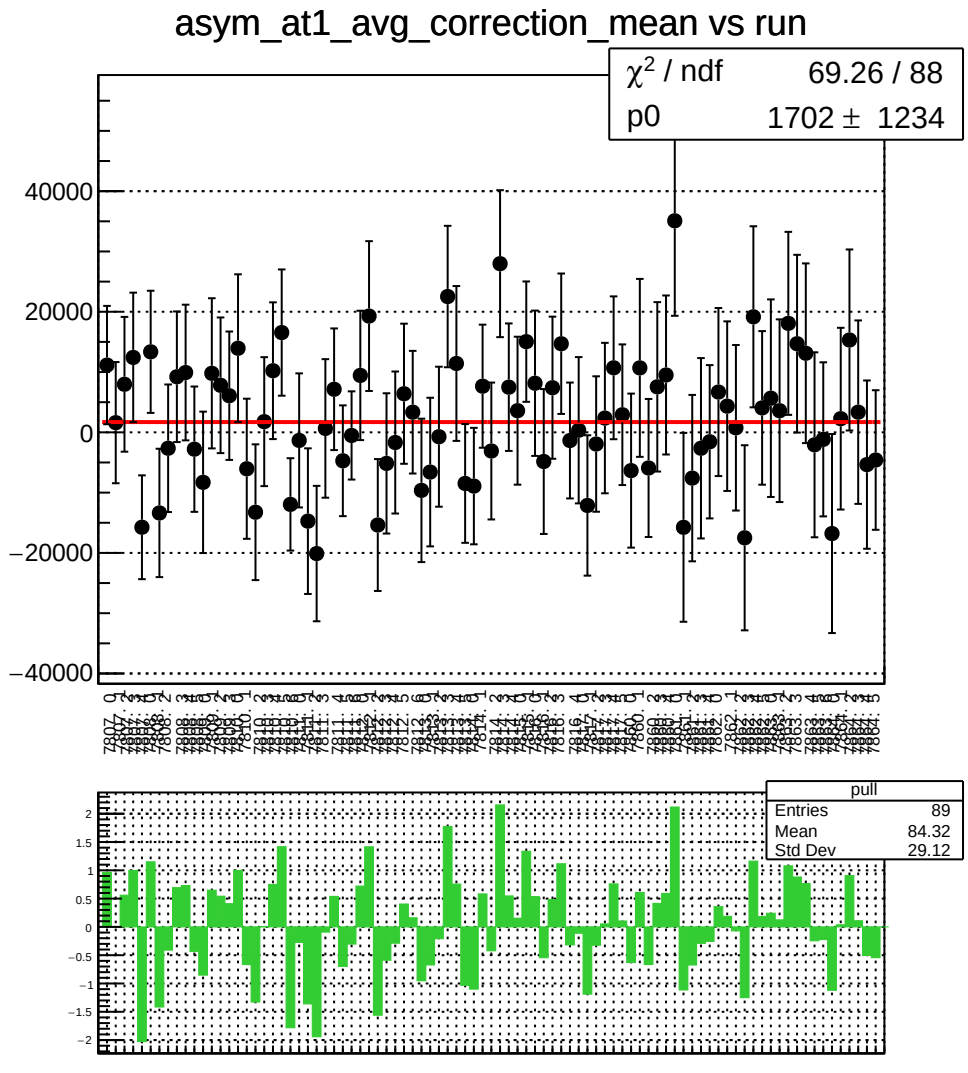

pull1D
Entries 89
Mean 0.01883
Std Dev 0.9184
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

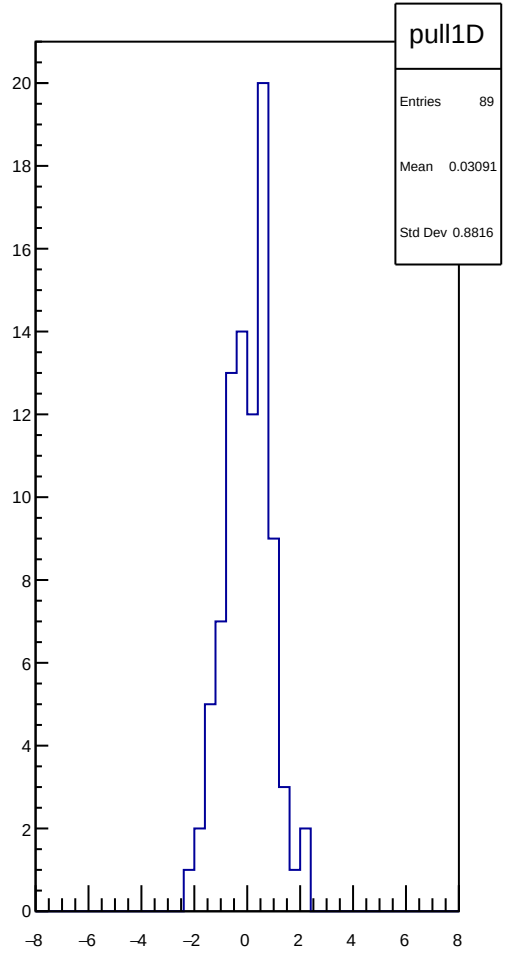

asym_atr_dd_rms vs run
χ^2 / ndf 1.313e+04 / 88
p0 7167 ± 5.497
9000
8500
8000
7500
7000
6500
6000

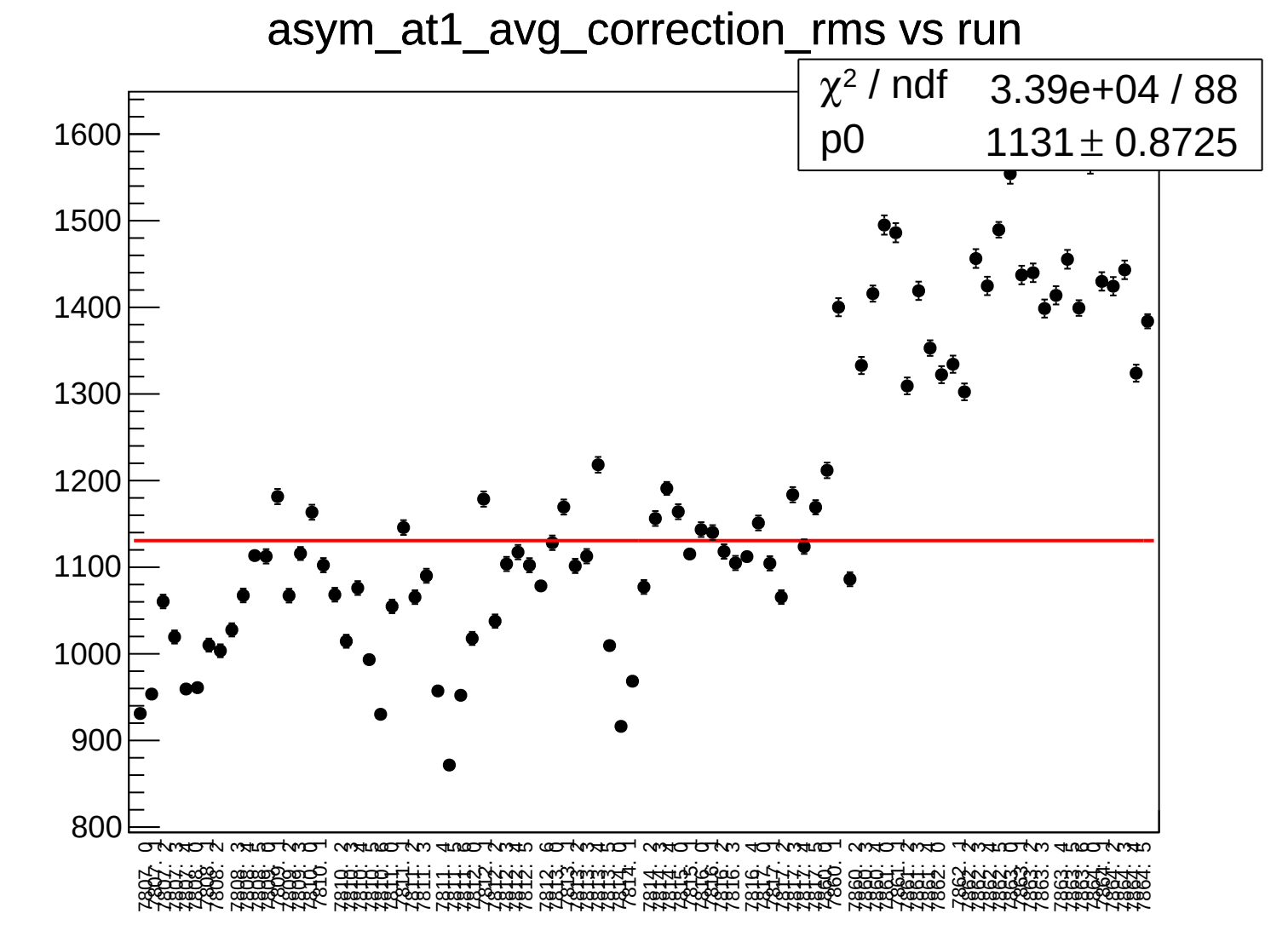

reg_asym_at1_avg_mean vs run
×10^3
χ² / ndf 73.46 / 88
p0 −2299 ± 1995
pull
Entries 89
Mean −230
Std Dev 252.7

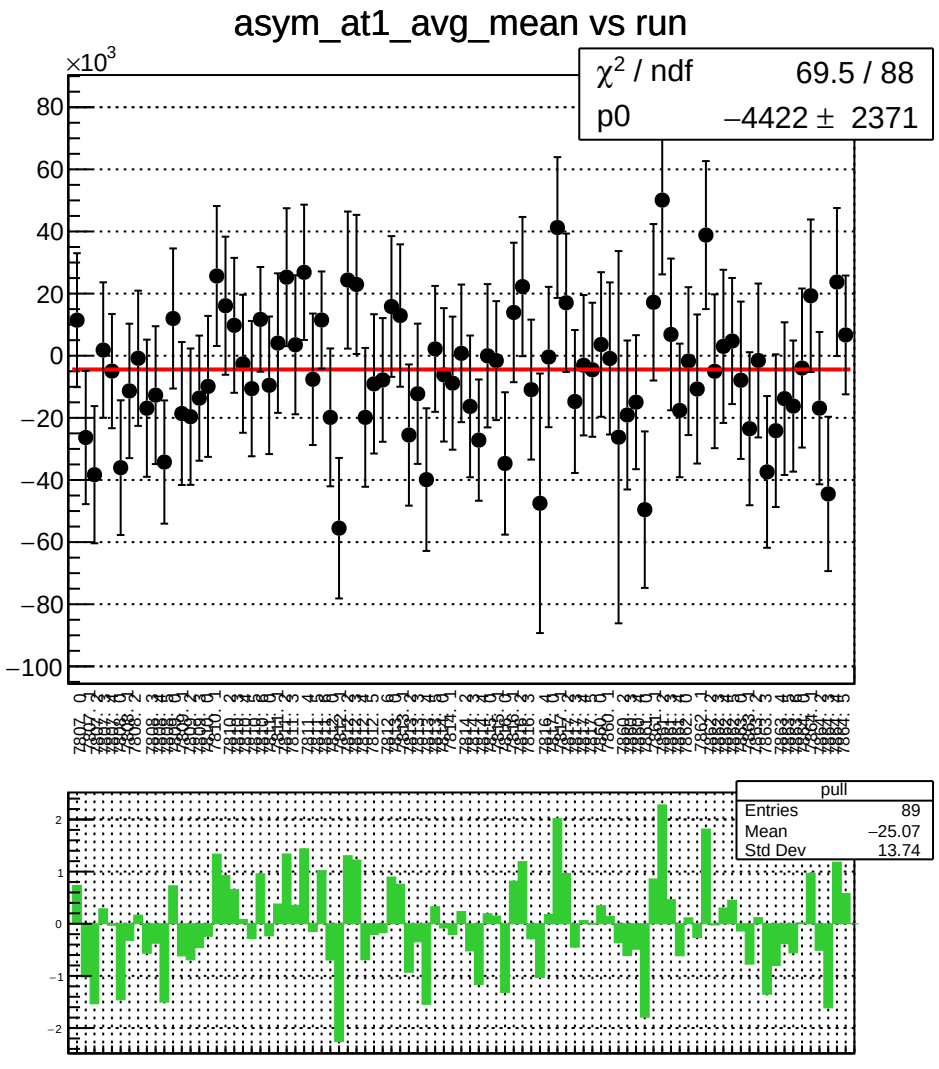

pull1D
Entries 89
Mean −0.007522
Std Dev 0.9085

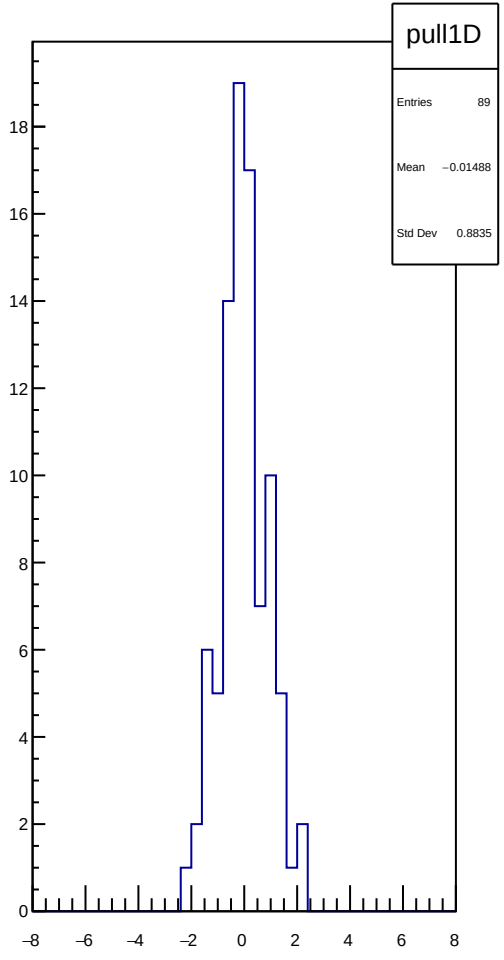

reg_asym_at1_avg_rms vs run
χ^2 / ndf 1.832e+04 / 88
p0 1837 ± 1.411
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

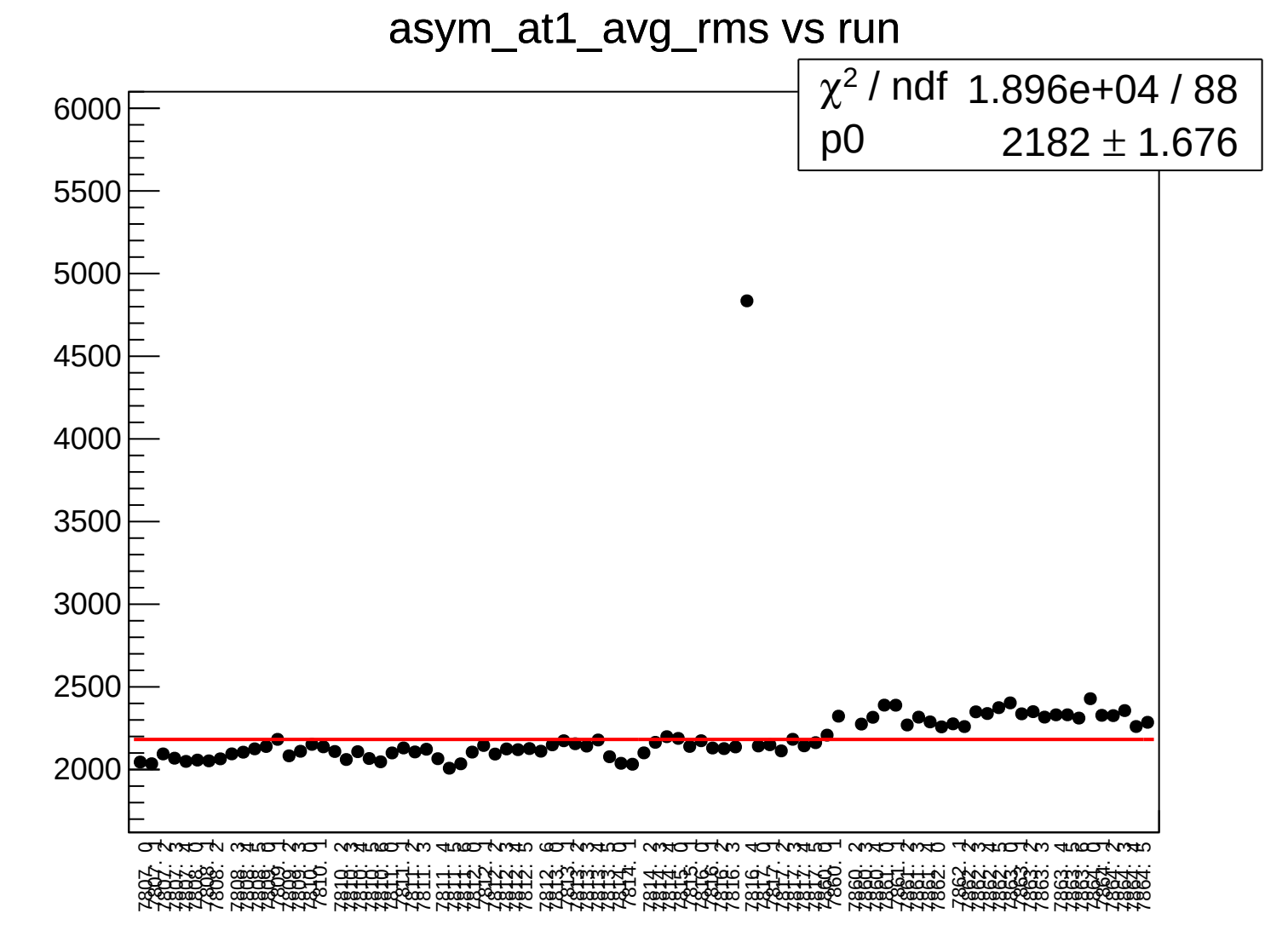

asym_at1_avg_correction_mean vs run
χ² / ndf 69.26 / 88
p0 1702 ± 1234
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 84.32
Std Dev 29.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

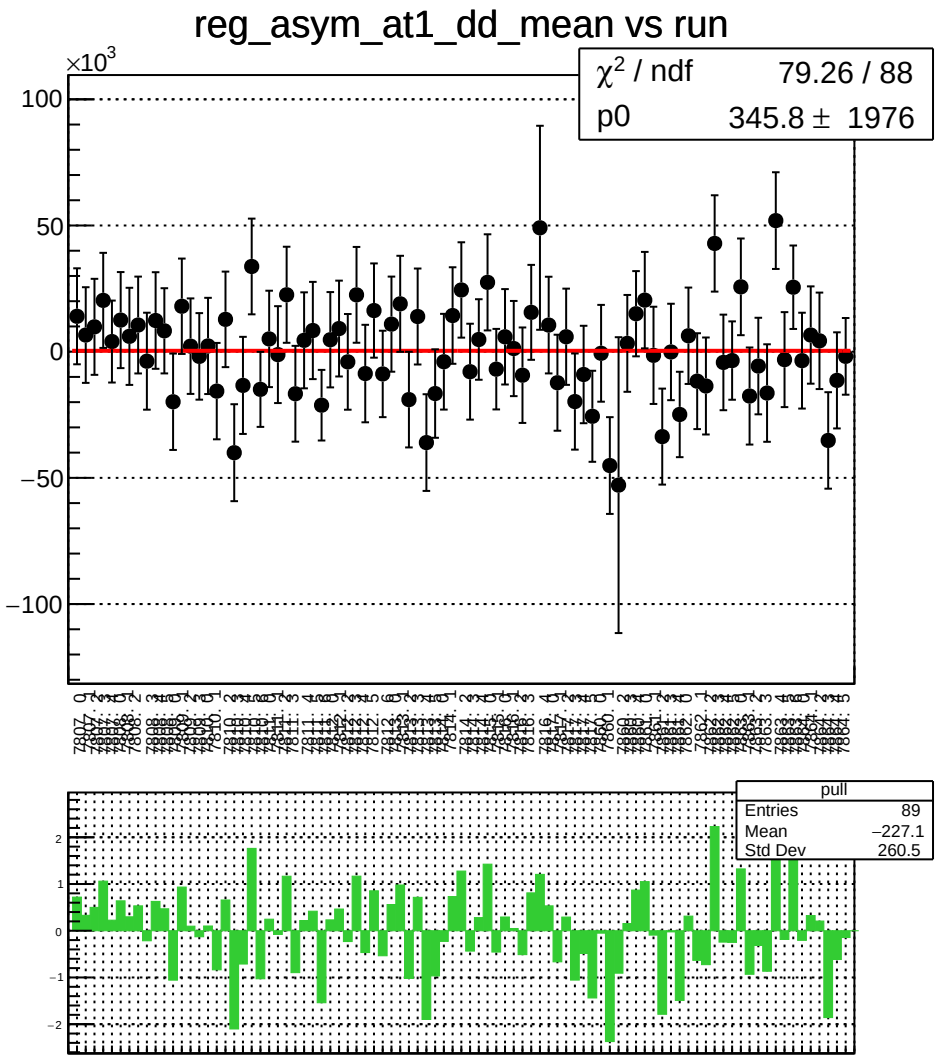

pull1D
Entries 89
Mean 0.03091
Std Dev 0.8816
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

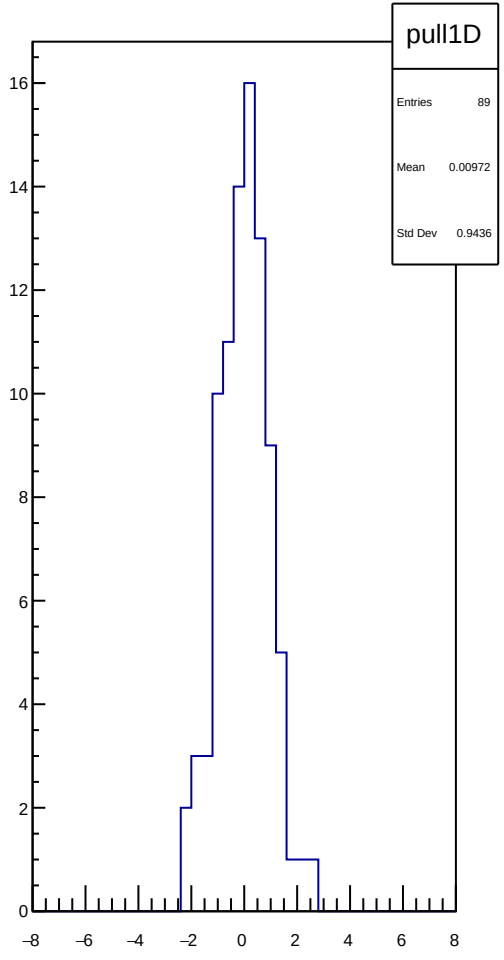

asym_at1_avg_correction_rms vs run
χ² / ndf 3.39e+04 / 88
p0 1131 ± 0.8725
1600
1500
1400
1300
1200
1100
1000
900
800

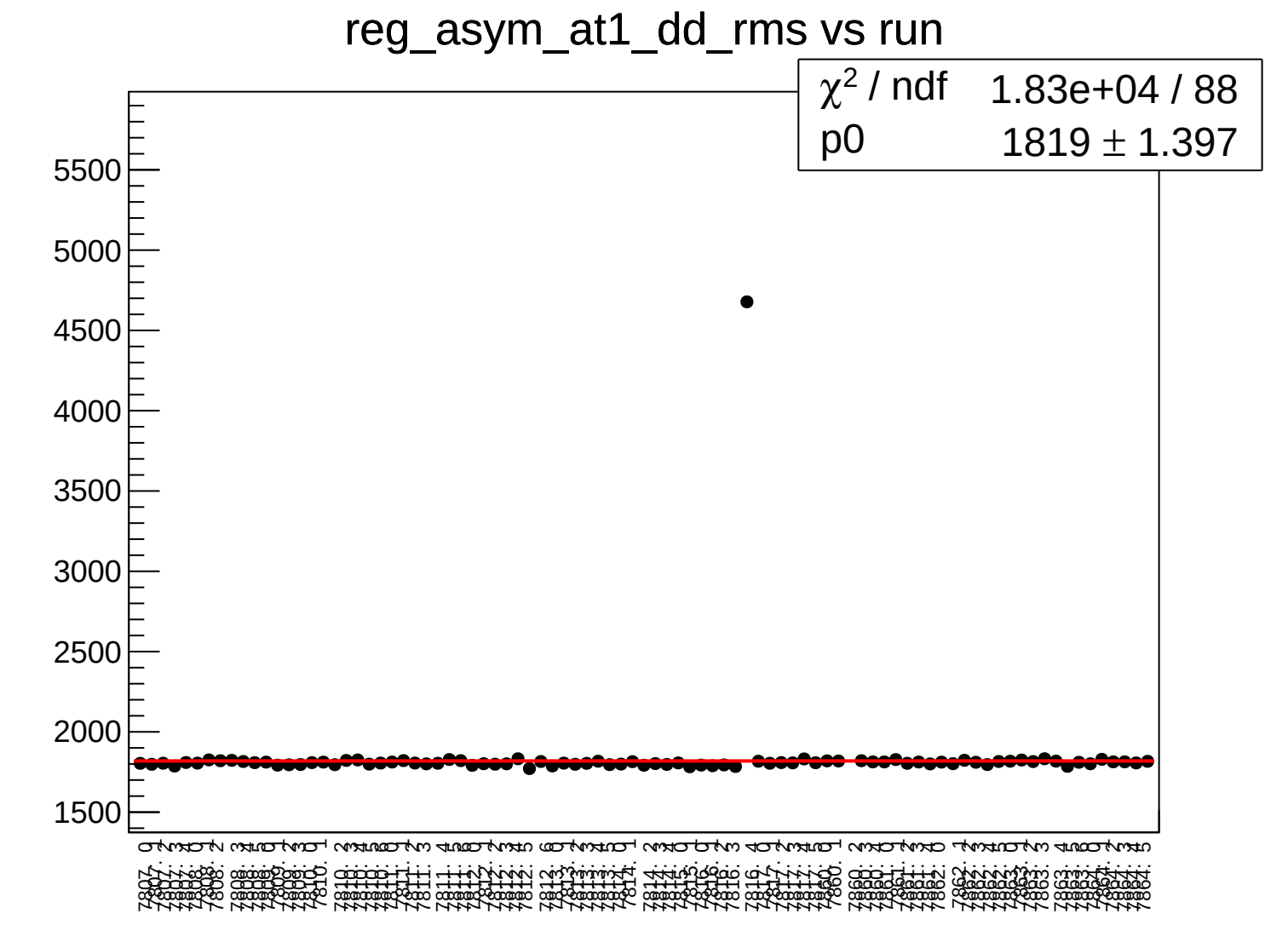

asym_at1_avg_mean vs run
×10^3
χ² / ndf 69.5 / 88
p0 −4422 ± 2371
pull
Entries 89
Mean −25.07
Std Dev 13.74

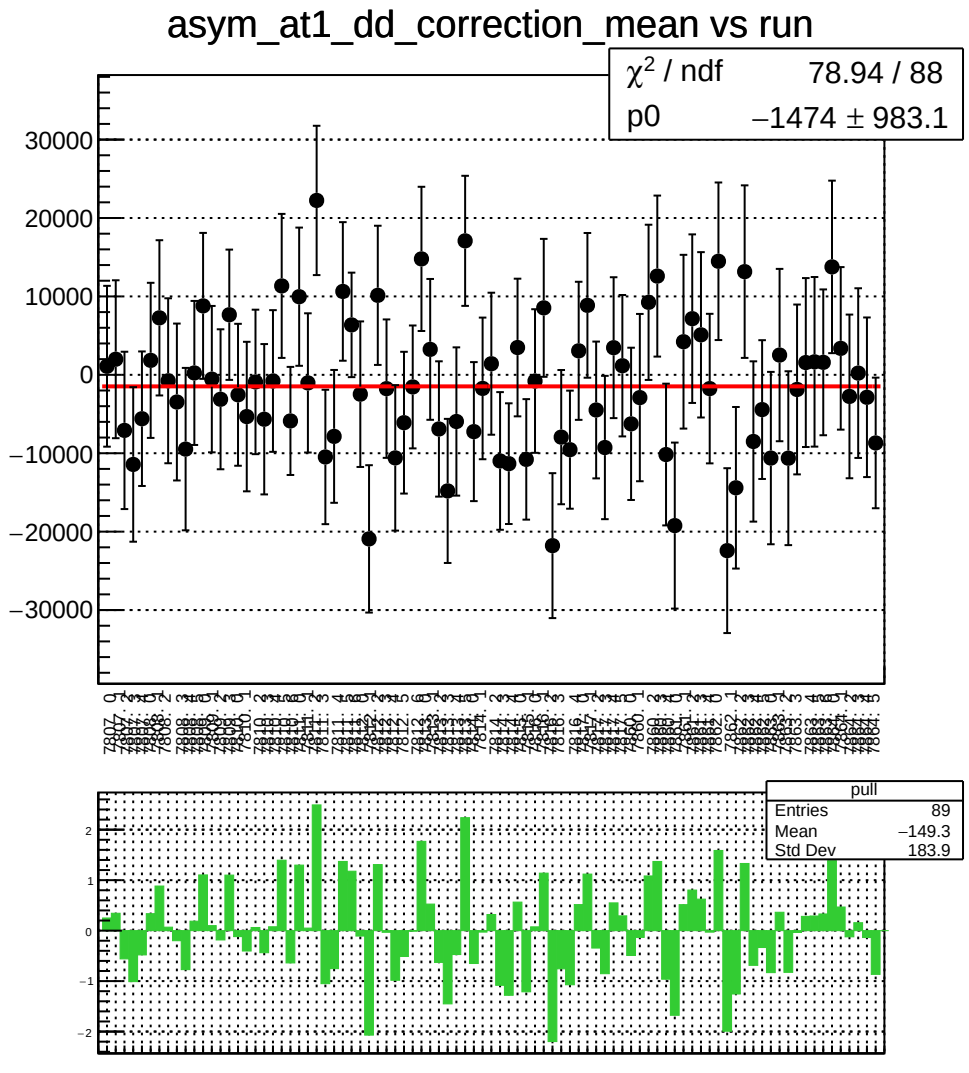

pull1D
Entries 89
Mean −0.01488
Std Dev 0.8835

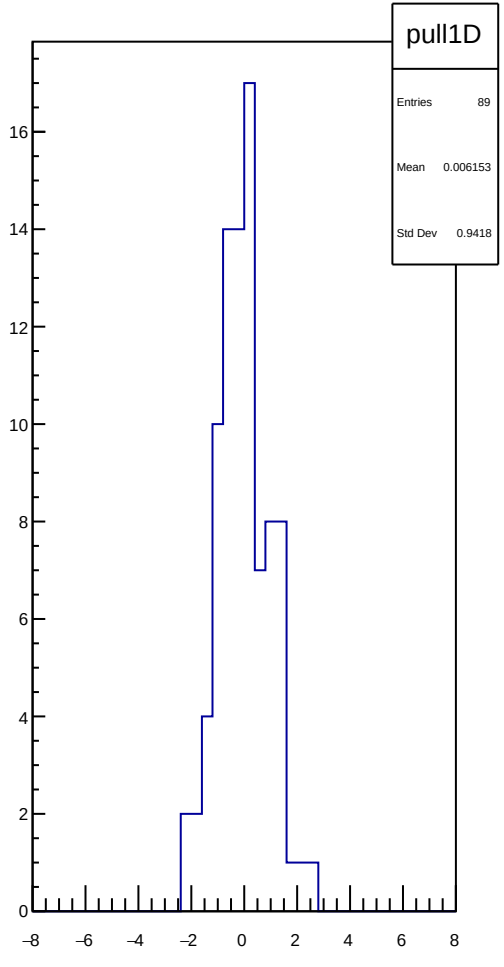

asym_at1_avg_rms vs run
χ^2 / ndf 1.896e+04 / 88
p0 2182 ± 1.676
6000
5500
5000
4500
4000
3500
3000
2500
2000

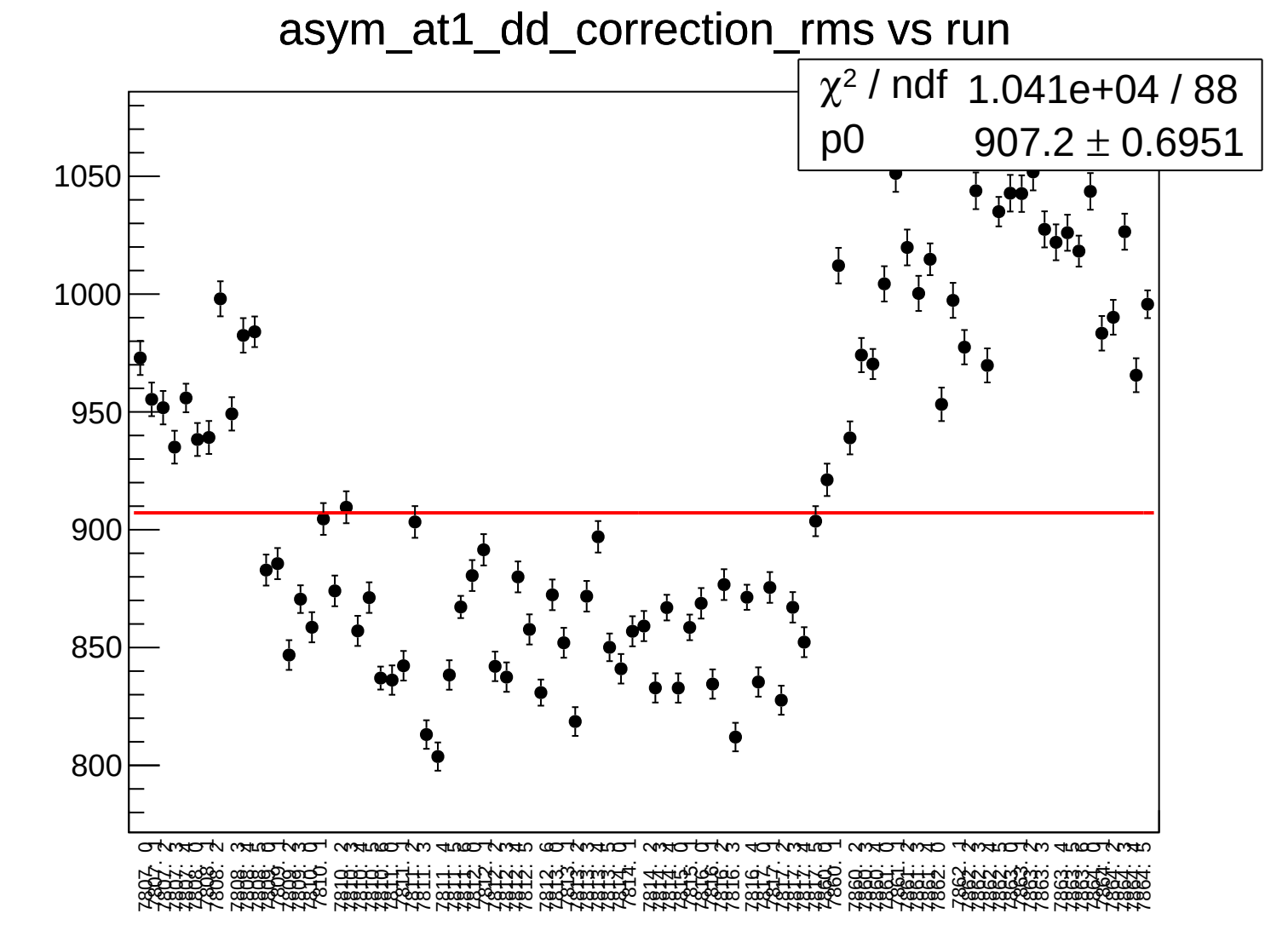

reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 79.26 / 88
p0 345.8 ± 1976
100
50
0
−50
−100
pull
Entries 89
Mean −227.1
Std Dev 260.5
2
1
0
−1
−2

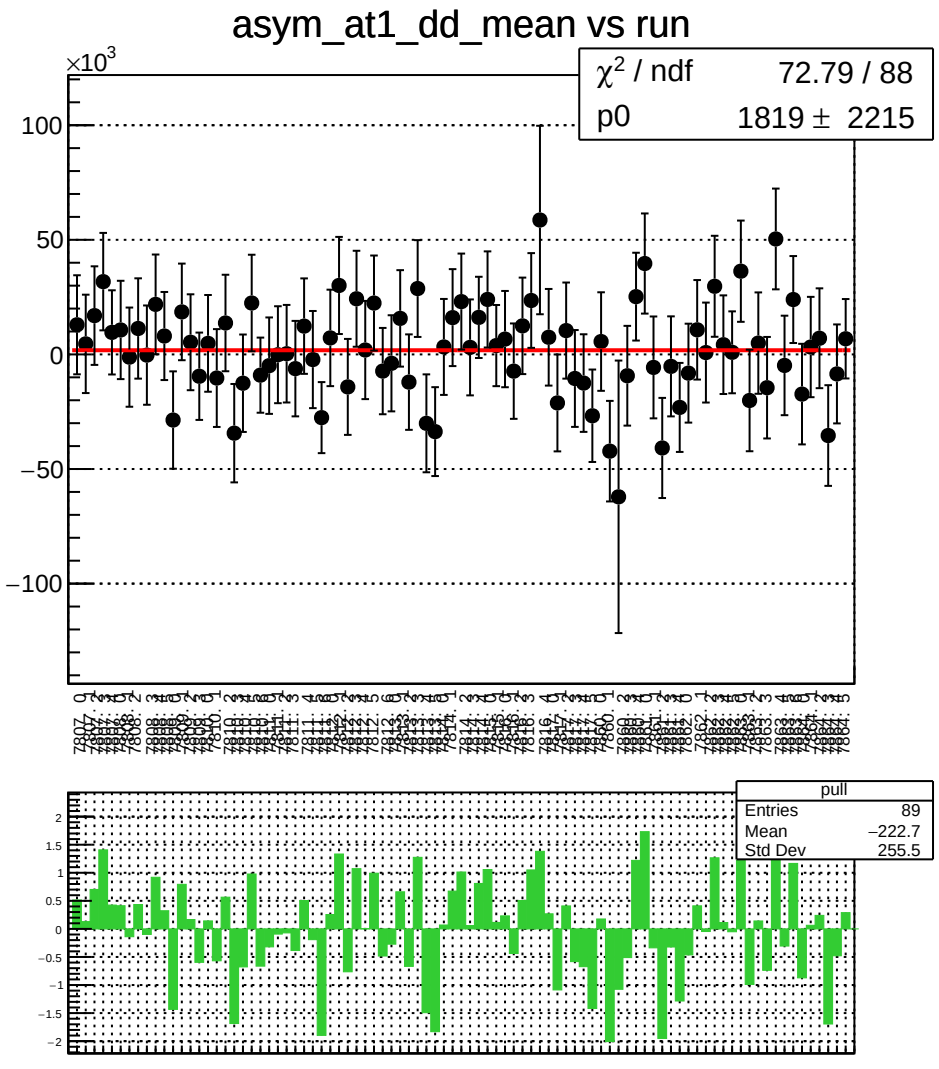

pull1D
Entries 89
Mean 0.00972
Std Dev 0.9436
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

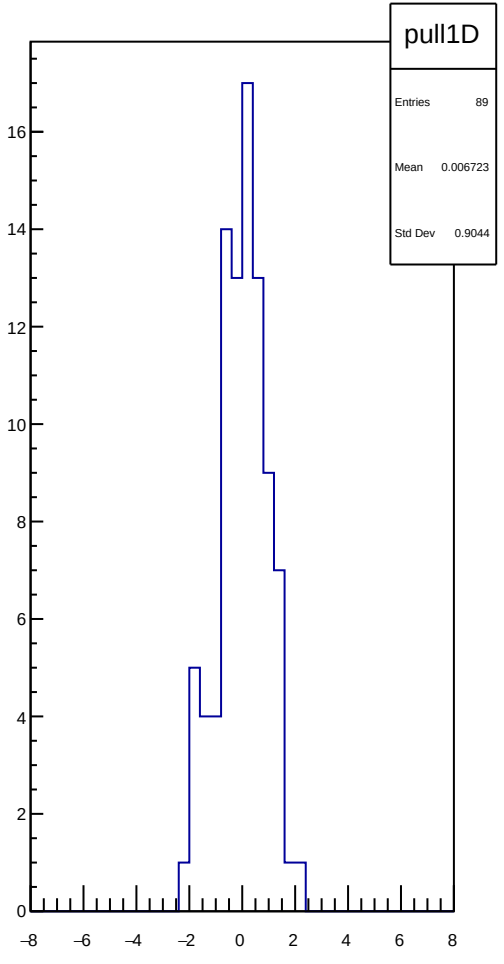

reg_asym_at1_dd_rms vs run
χ^2 / ndf 1.83e+04 / 88
p0 1819 ± 1.397
5500
5000
4500
4000
3500
3000
2500
2000
1500

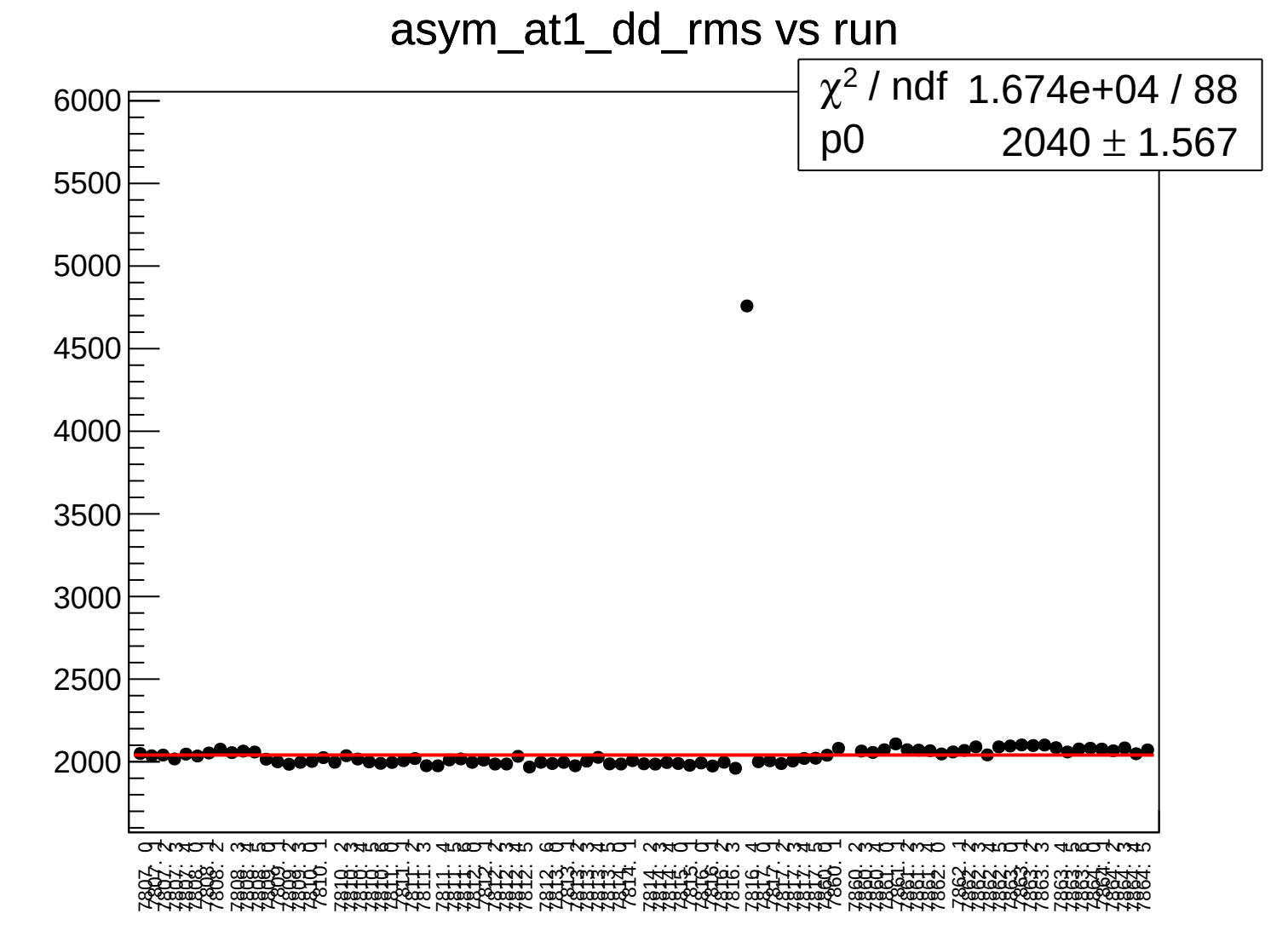

asym_at1_dd_correction_mean vs run
χ² / ndf 78.94 / 88
p0 −1474 ± 983.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −149.3
Std Dev 183.9
2
1
0
−1
−2

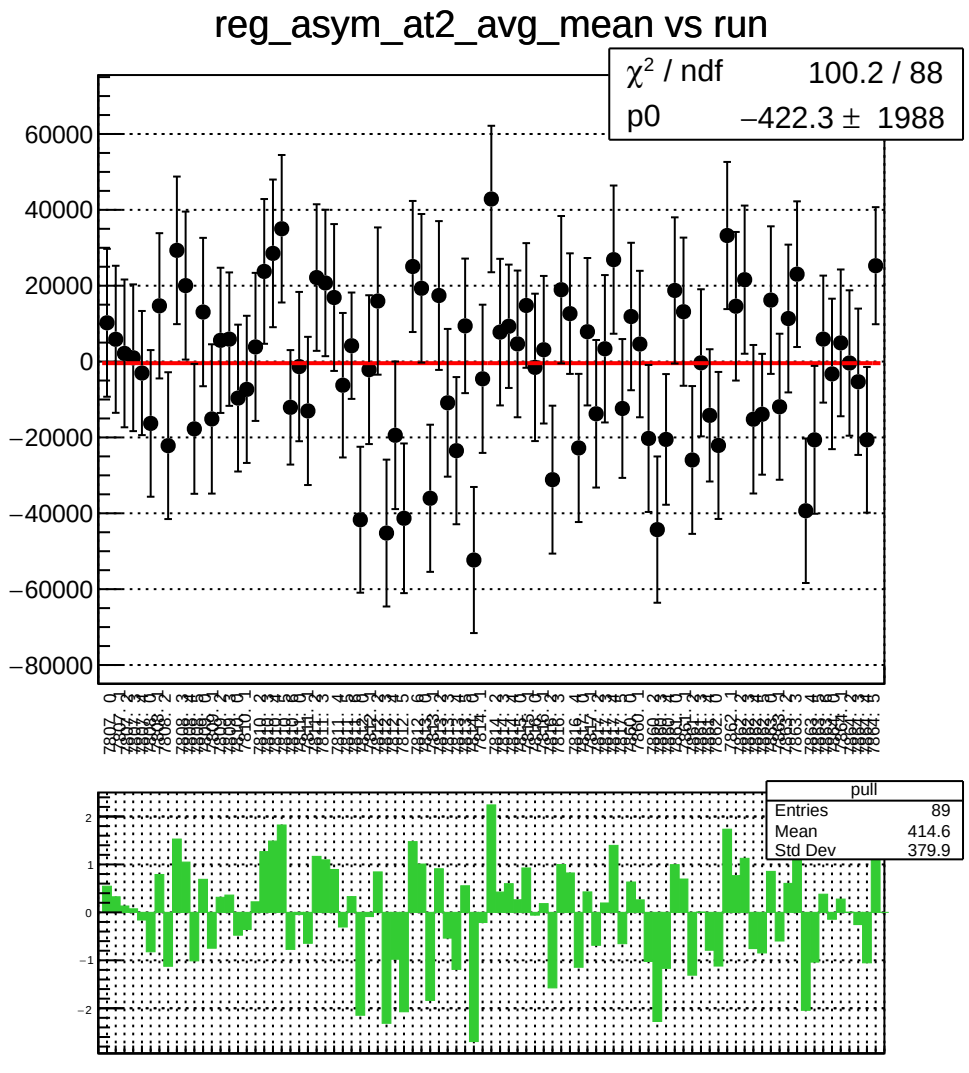

pull1D
Entries 89
Mean 0.006153
Std Dev 0.9418
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

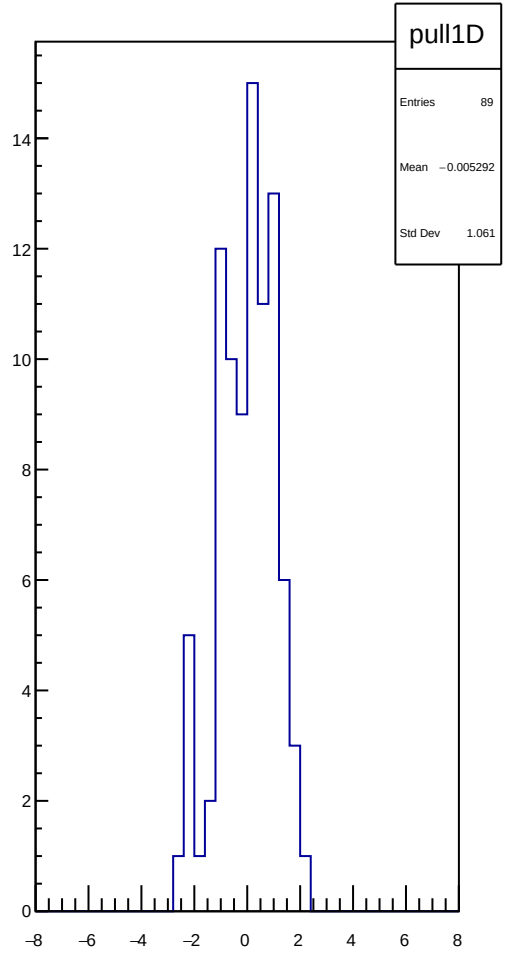

asym_at1_dd_correction_rms vs run
χ² / ndf 1.041e+04 / 88
p0 907.2 ± 0.6951
1050
1000
950
900
850
800

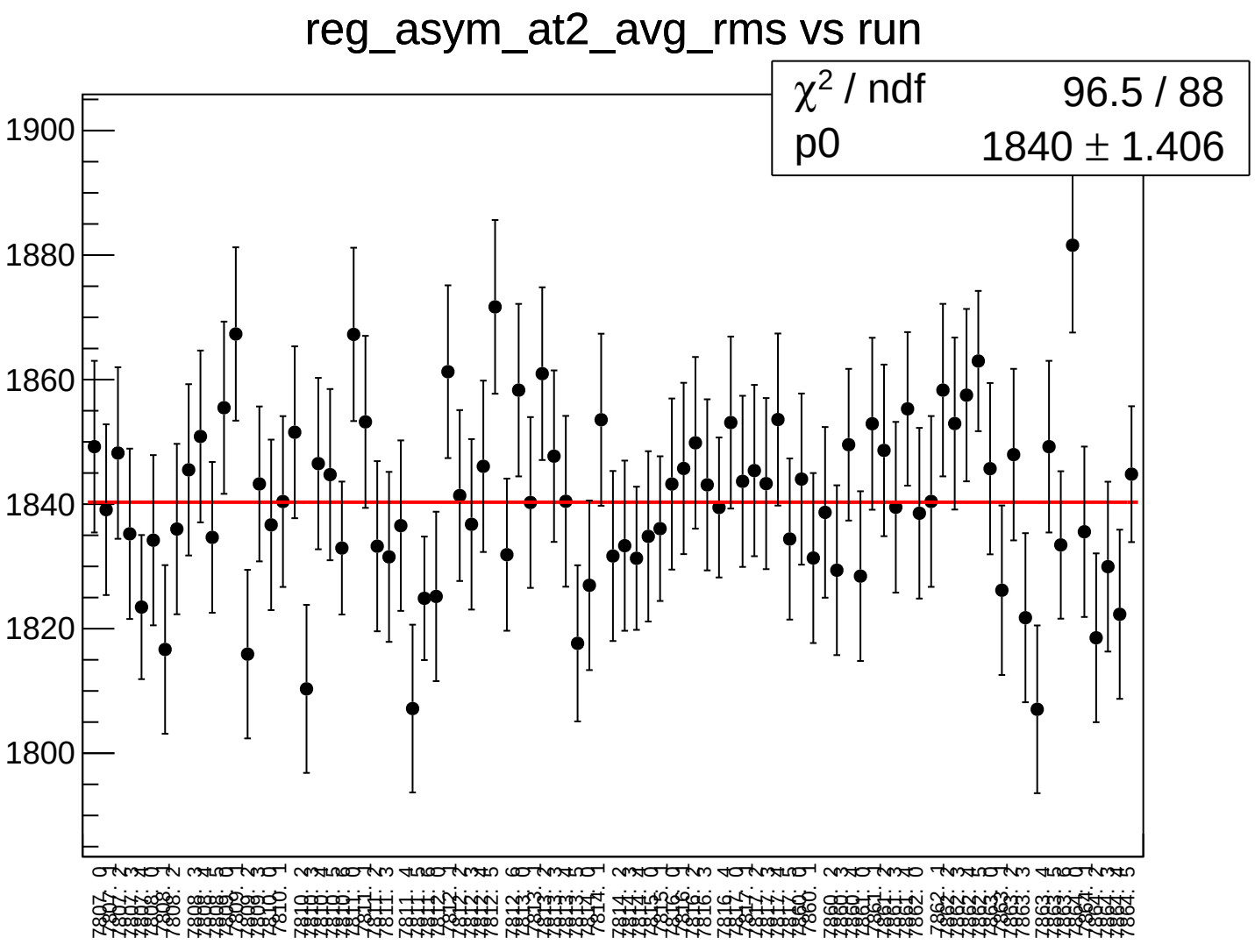

asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 72.79 / 88
p0 1819 ± 2215
100
50
0
−50
−100
pull
Entries 89
Mean −222.7
Std Dev 255.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

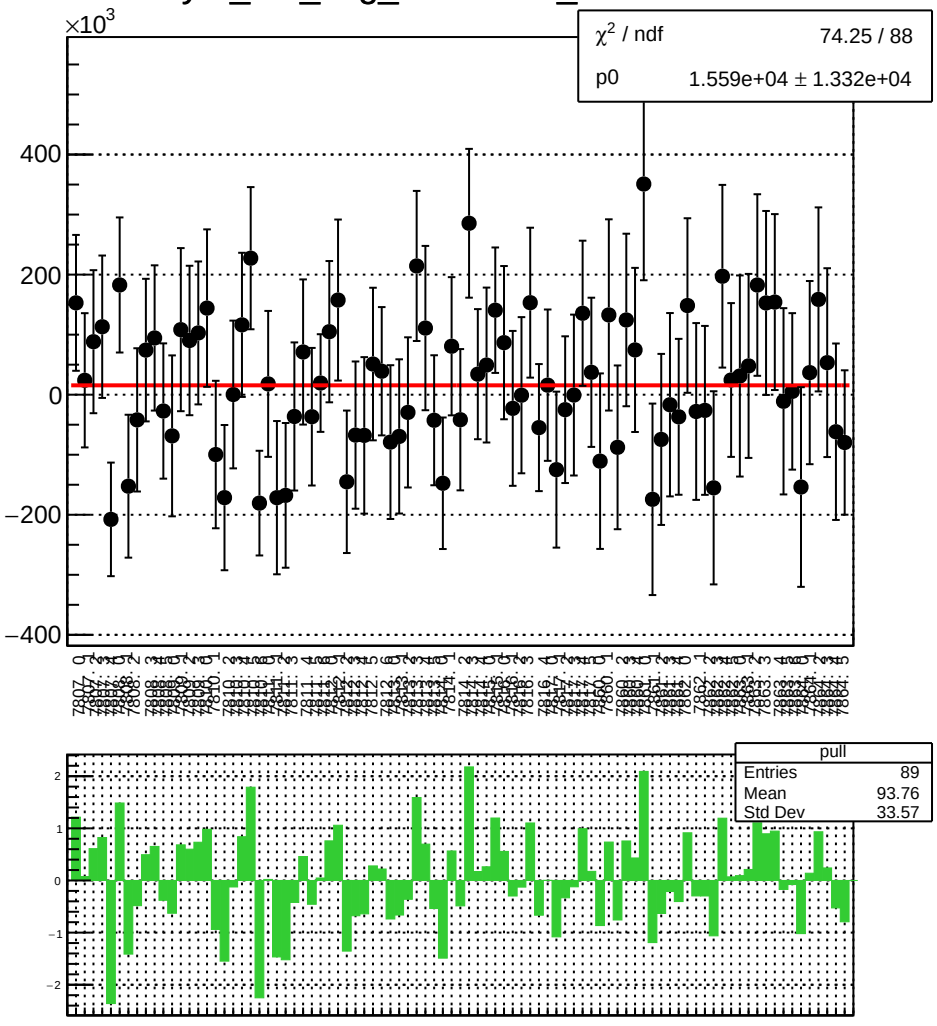

pull1D
Entries 89
Mean 0.006723
Std Dev 0.9044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

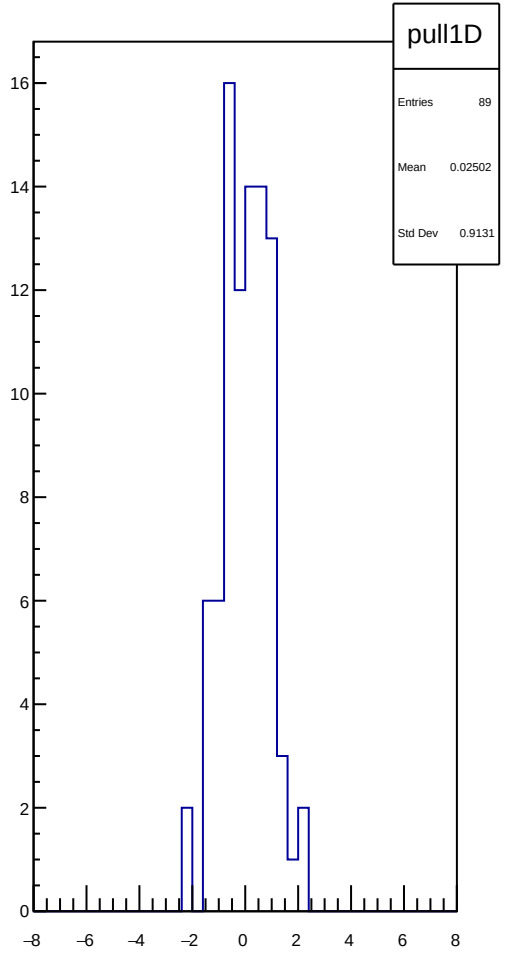

asym_at1_dd_rms vs run
χ² / ndf 1.674e+04 / 88
p0 2040 ± 1.567
6000
5500
5000
4500
4000
3500
3000
2500
2000

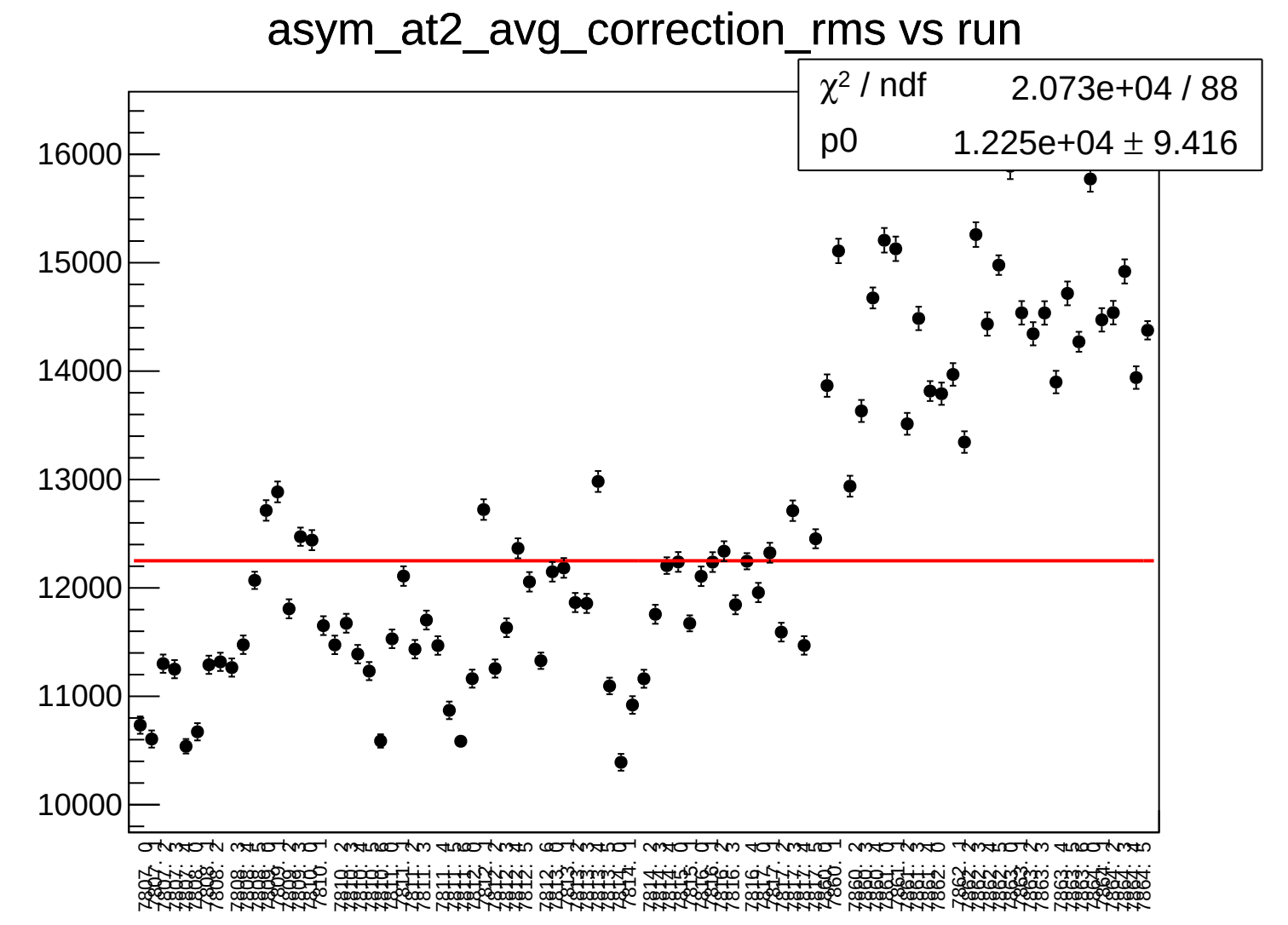

reg_asym_at2_avg_mean vs run
χ² / ndf 100.2 / 88
p0 −422.3 ± 1988
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 414.6
Std Dev 379.9
2
1
0
−1
−2

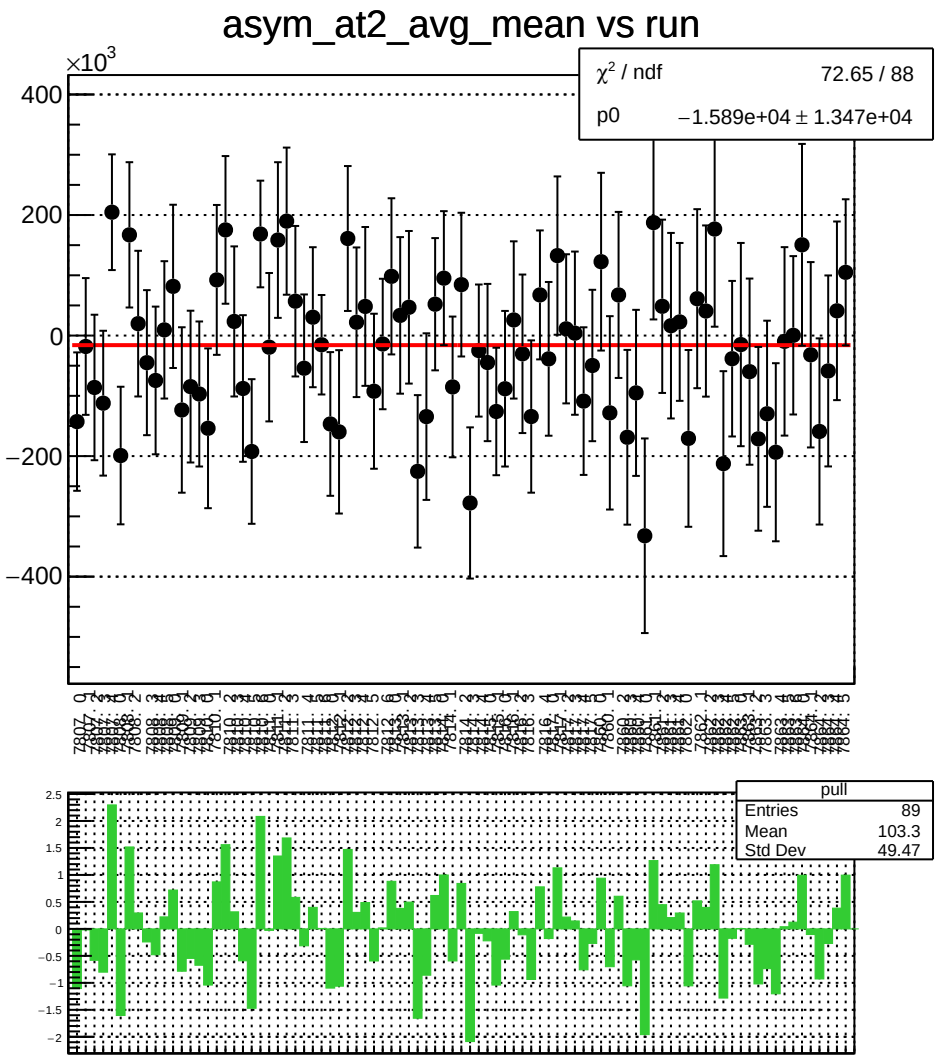

pull1D
Entries 89
Mean −0.005292
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

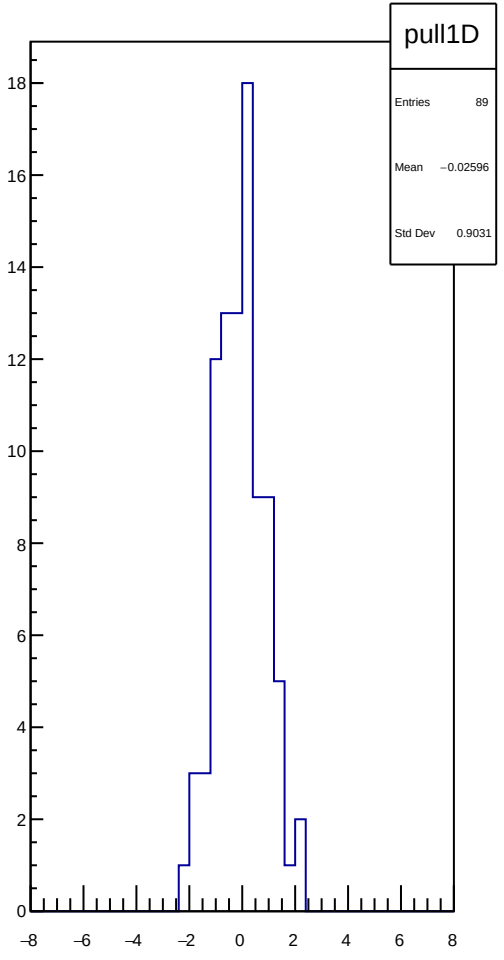

reg_asym_at2_avg_rms vs run
χ² / ndf 96.5 / 88
p0 1840 ± 1.406
1900
1880
1860
1840
1820
1800

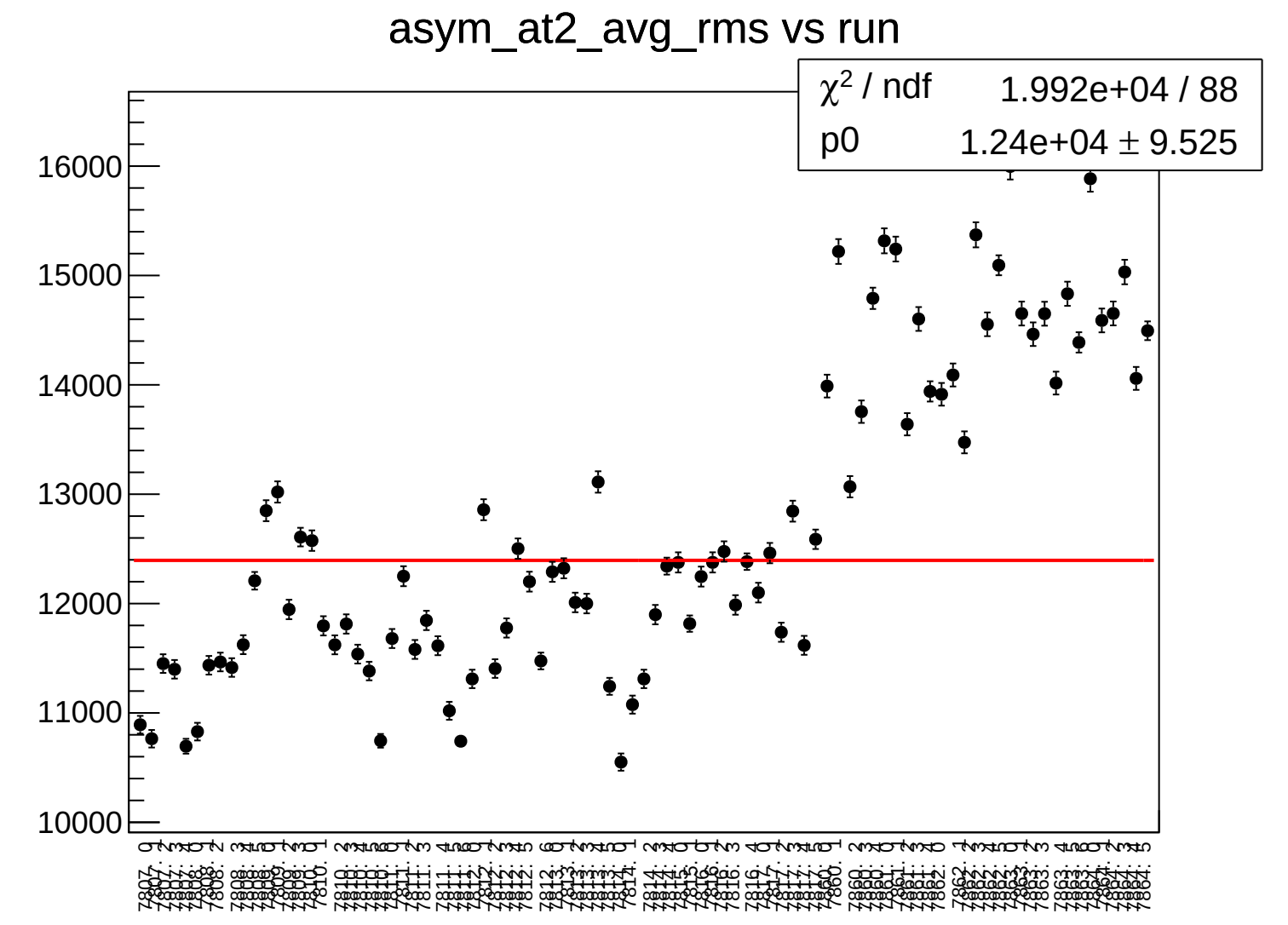

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 74.25 / 88
p0 1.559e+04 ± 1.332e+04
400
200
0
−200
−400
pull
Entries 89
Mean 93.76
Std Dev 33.57
2
1
0
−1
−2

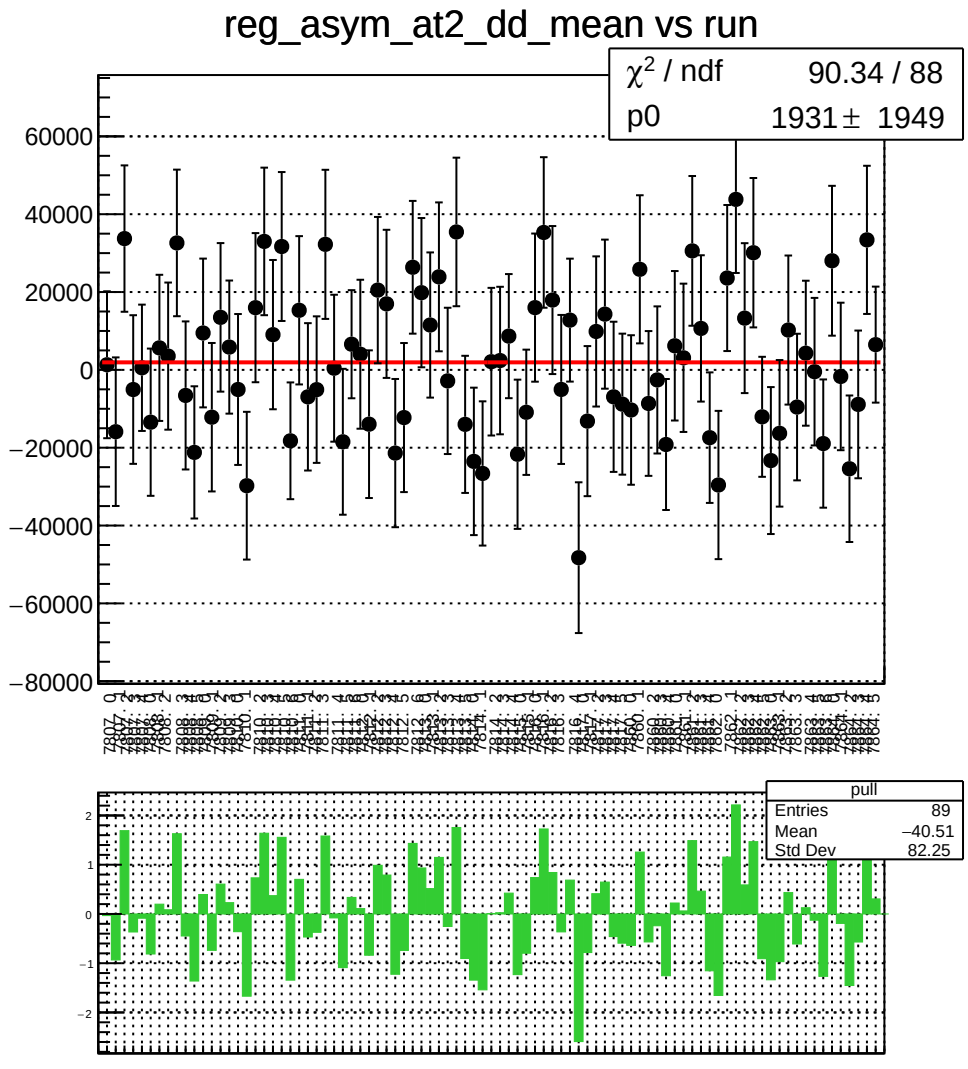

pull1D
Entries 89
Mean 0.02502
Std Dev 0.9131
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

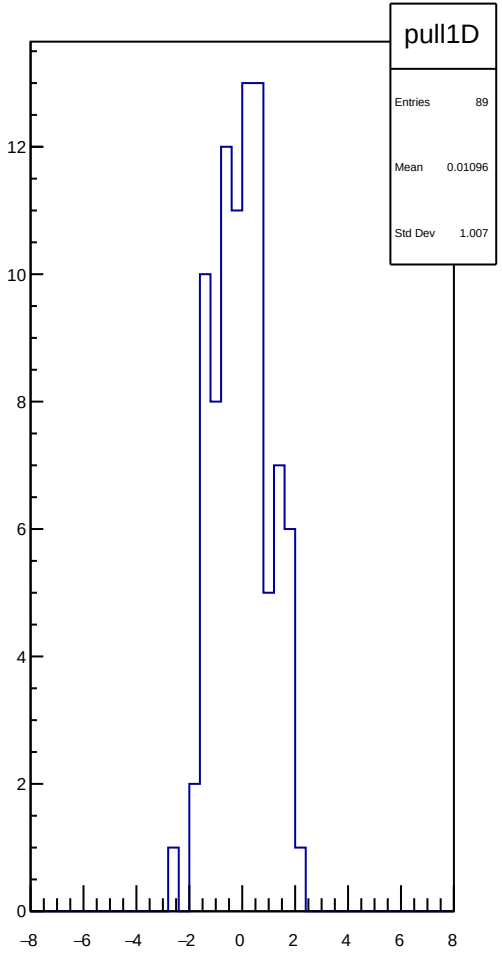

asym_at2_avg_correction_rms vs run
χ² / ndf 2.073e+04 / 88
p0 1.225e+04 ± 9.416
16000
15000
14000
13000
12000
11000
10000

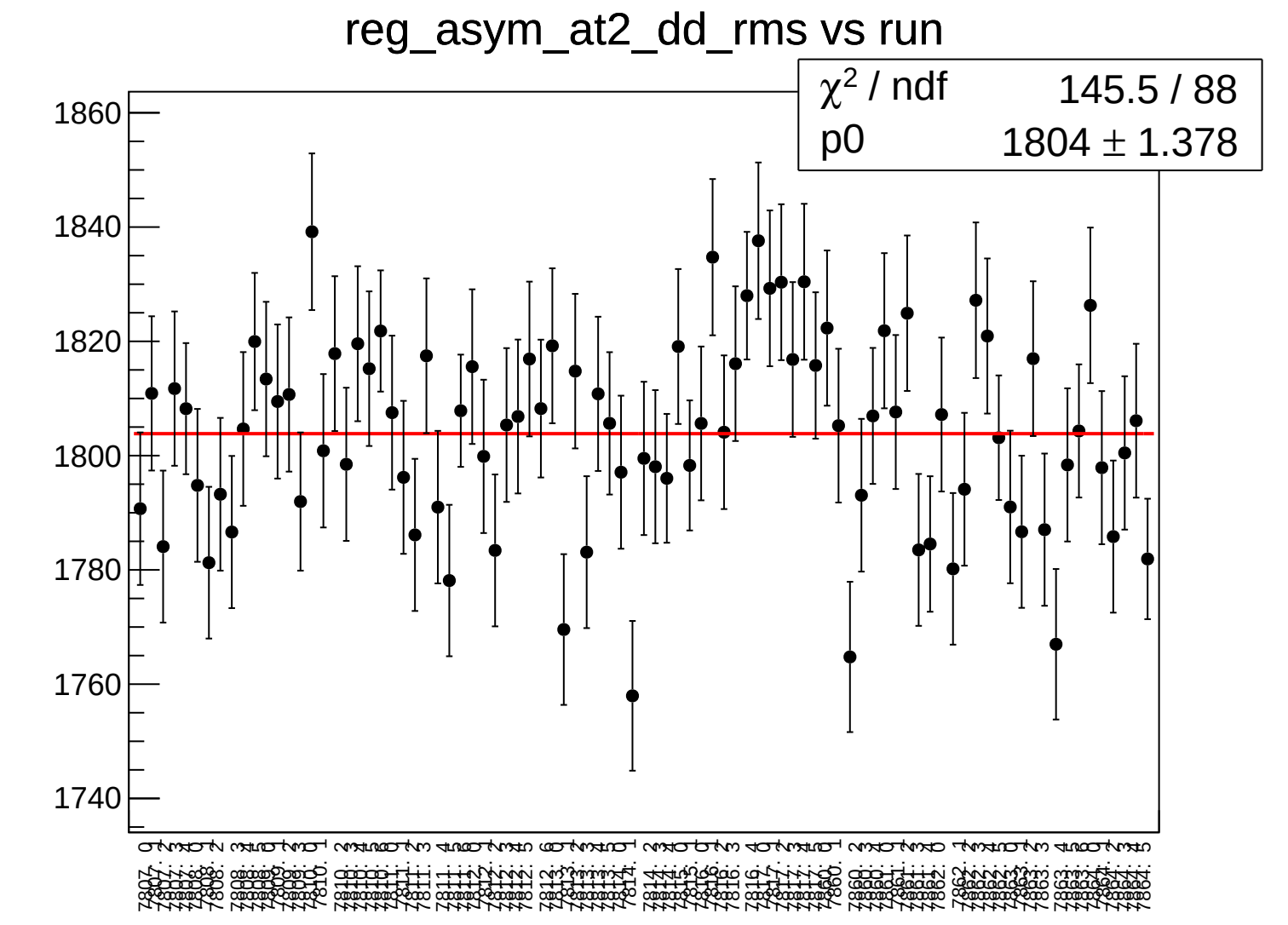

asym_at2_avg_mean vs run
×10^3
400
200
0
−200
−400
χ² / ndf 72.65 / 88
p0 −1.589e+04 ± 1.347e+04
pull
Entries 89
Mean 103.3
Std Dev 49.47
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

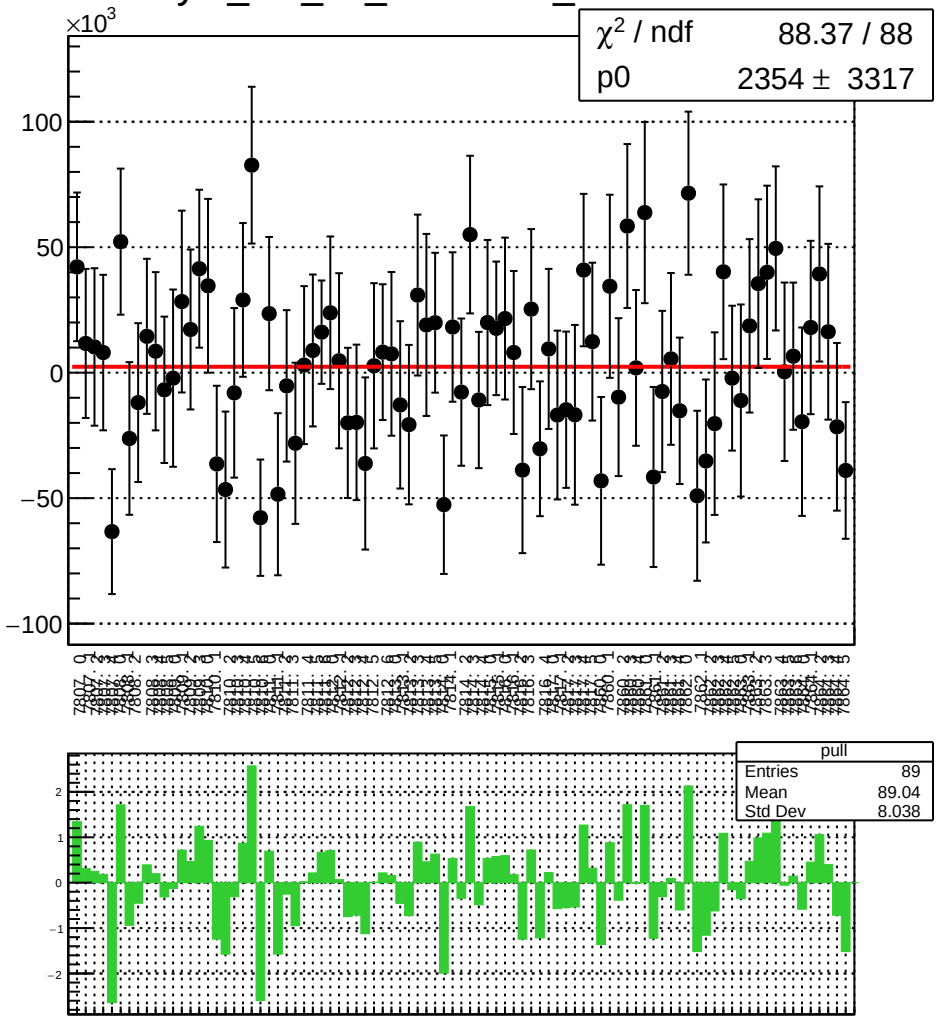

pull1D
Entries 89
Mean −0.02596
Std Dev 0.9031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

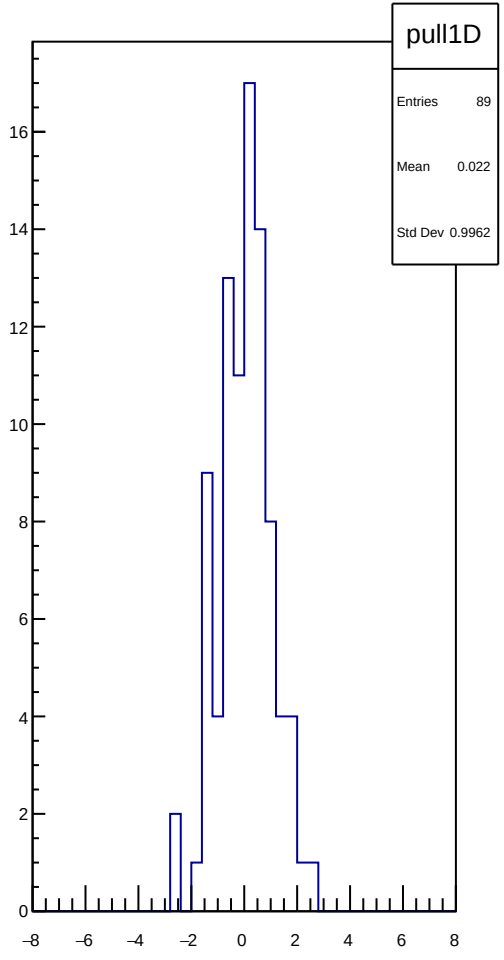

asym_at2_avg_rms vs run
χ^2 / ndf 1.992e+04 / 88
p0 1.24e+04 ± 9.525
16000
15000
14000
13000
12000
11000
10000

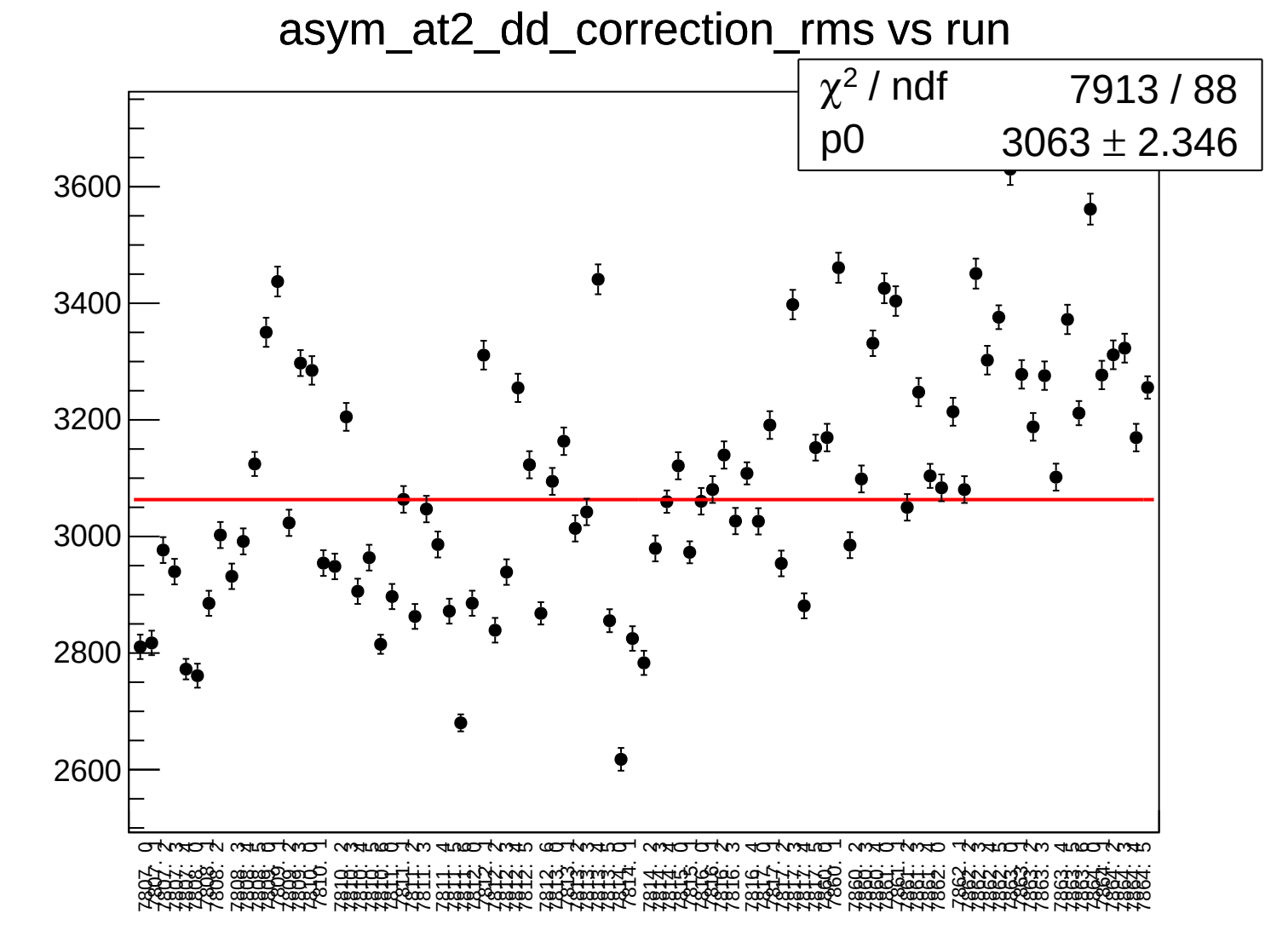

reg_asym_at2_dd_mean vs run
χ² / ndf 90.34 / 88
p0 1931 ± 1949
pull
Entries 89
Mean −40.51
Std Dev 82.25

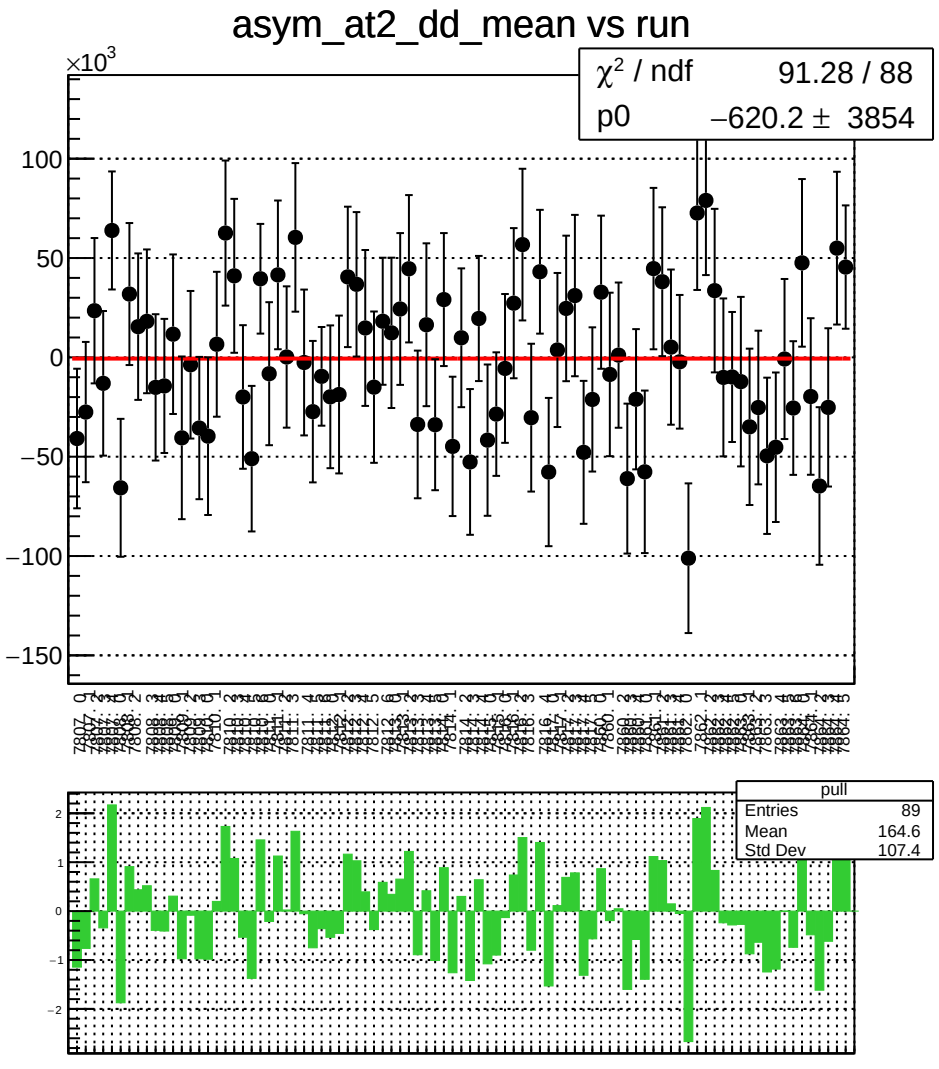

pull1D
Entries 89
Mean 0.01096
Std Dev 1.007

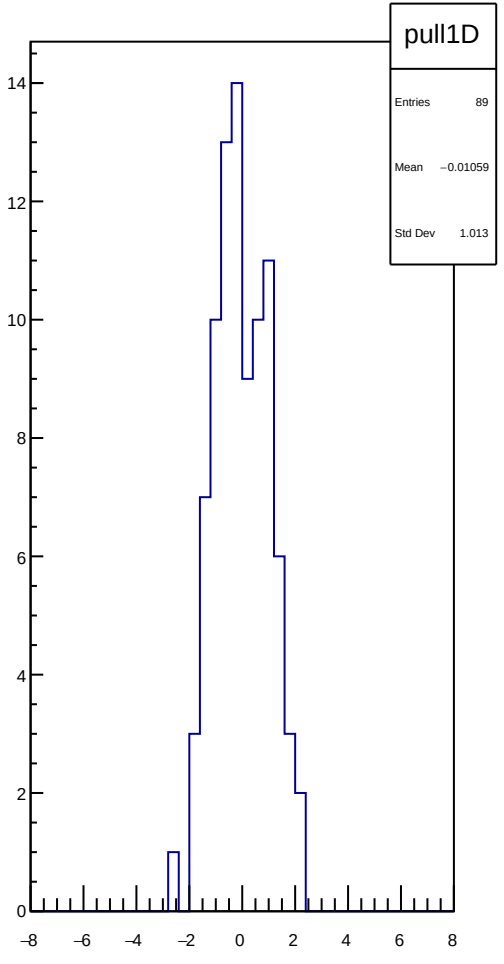

reg_asym_at2_dd_rms vs run
χ² / ndf 145.5 / 88
p0 1804 ± 1.378
1860
1840
1820
1800
1780
1760
1740

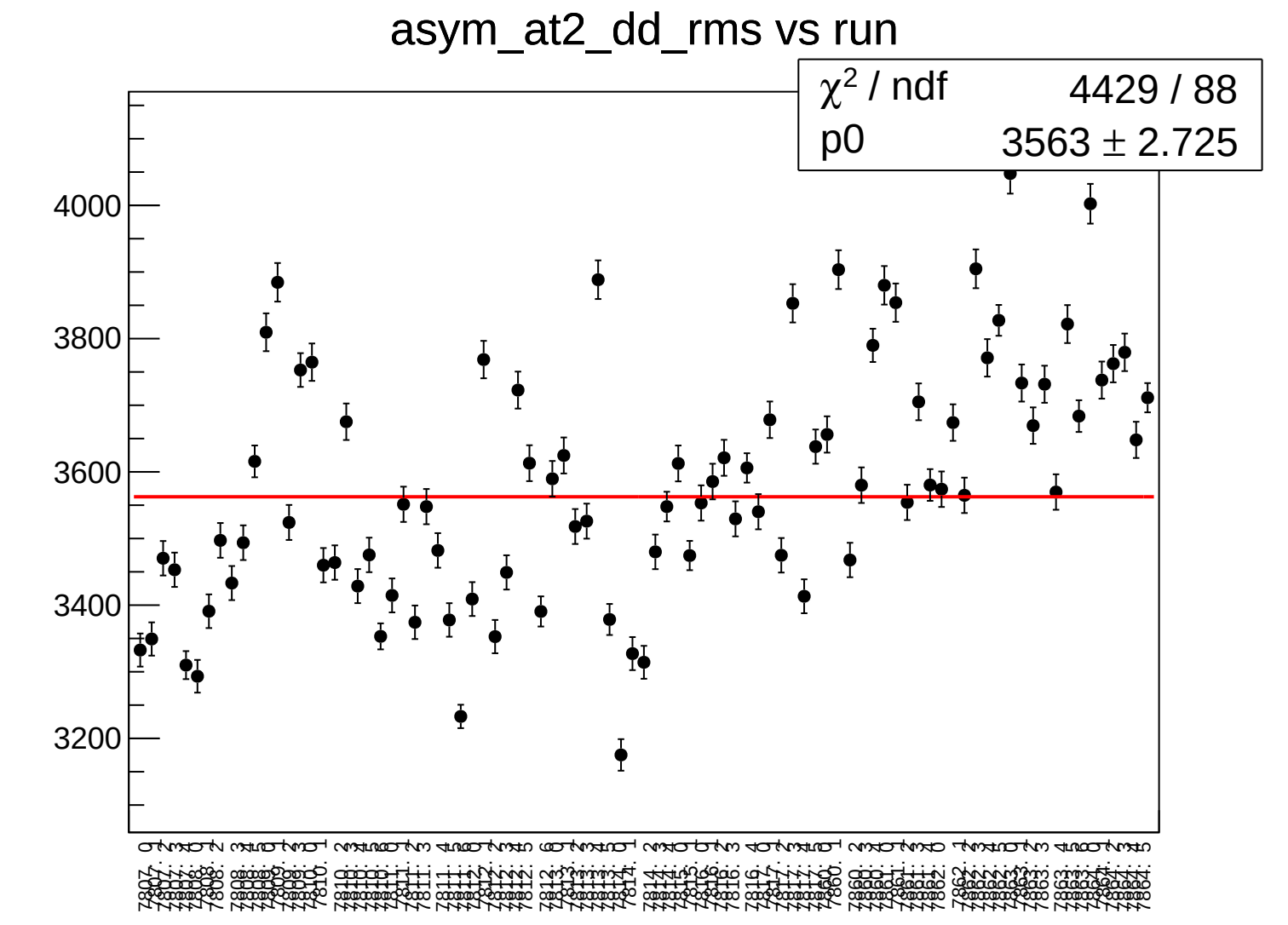

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 88.37 / 88
p0 2354 ± 3317
100
50
0
−50
−100
pull
Entries 89
Mean 89.04
Std Dev 8.038
2
1
0
−1
−2

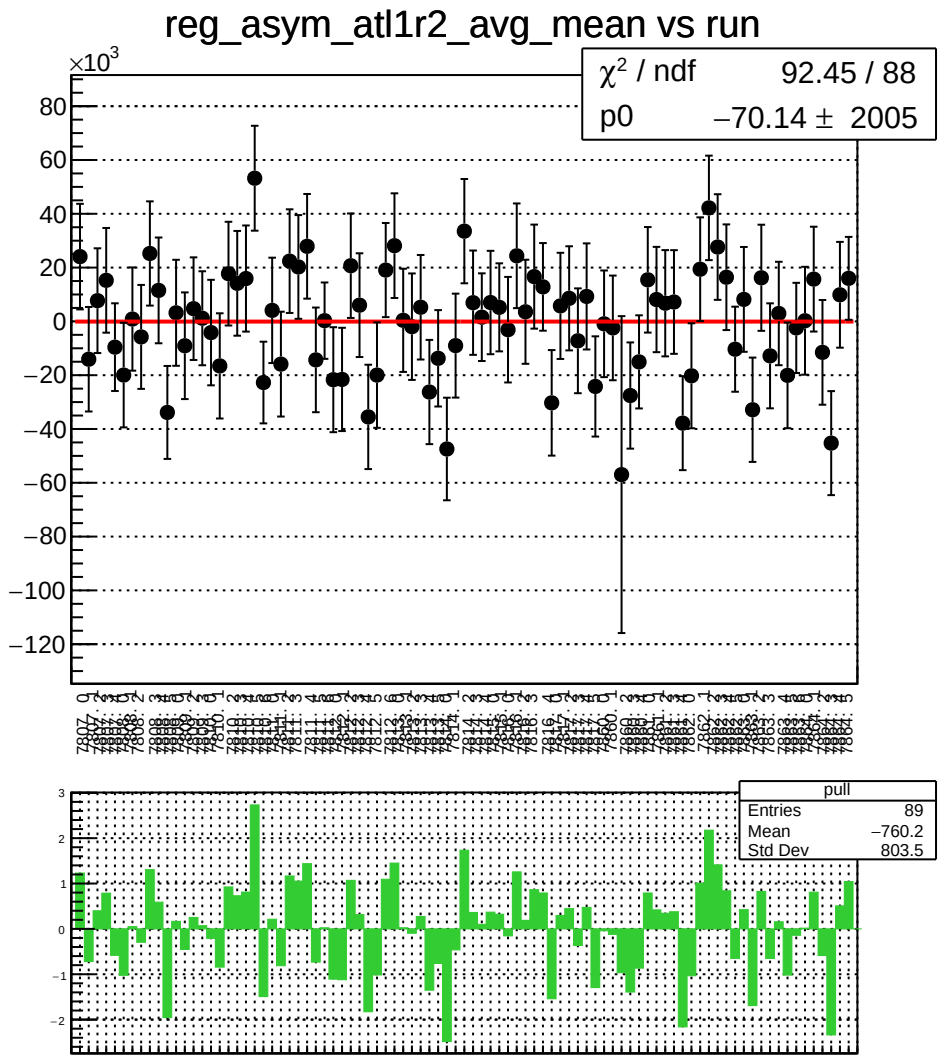

pull1D
Entries 89
Mean 0.022
Std Dev 0.9962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

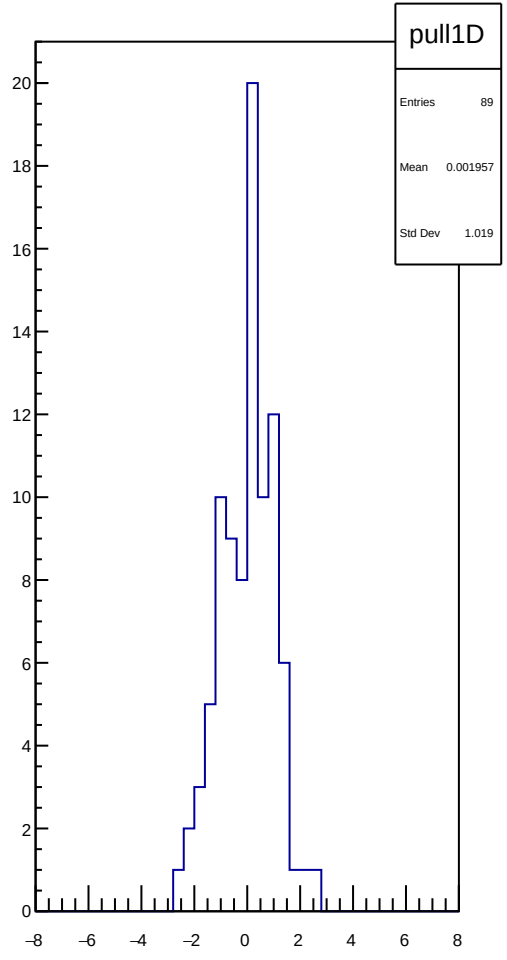

asym_at2_dd_correction_rms vs run
χ² / ndf 7913 / 88
p0 3063 ± 2.346
3600
3400
3200
3000
2800
2600

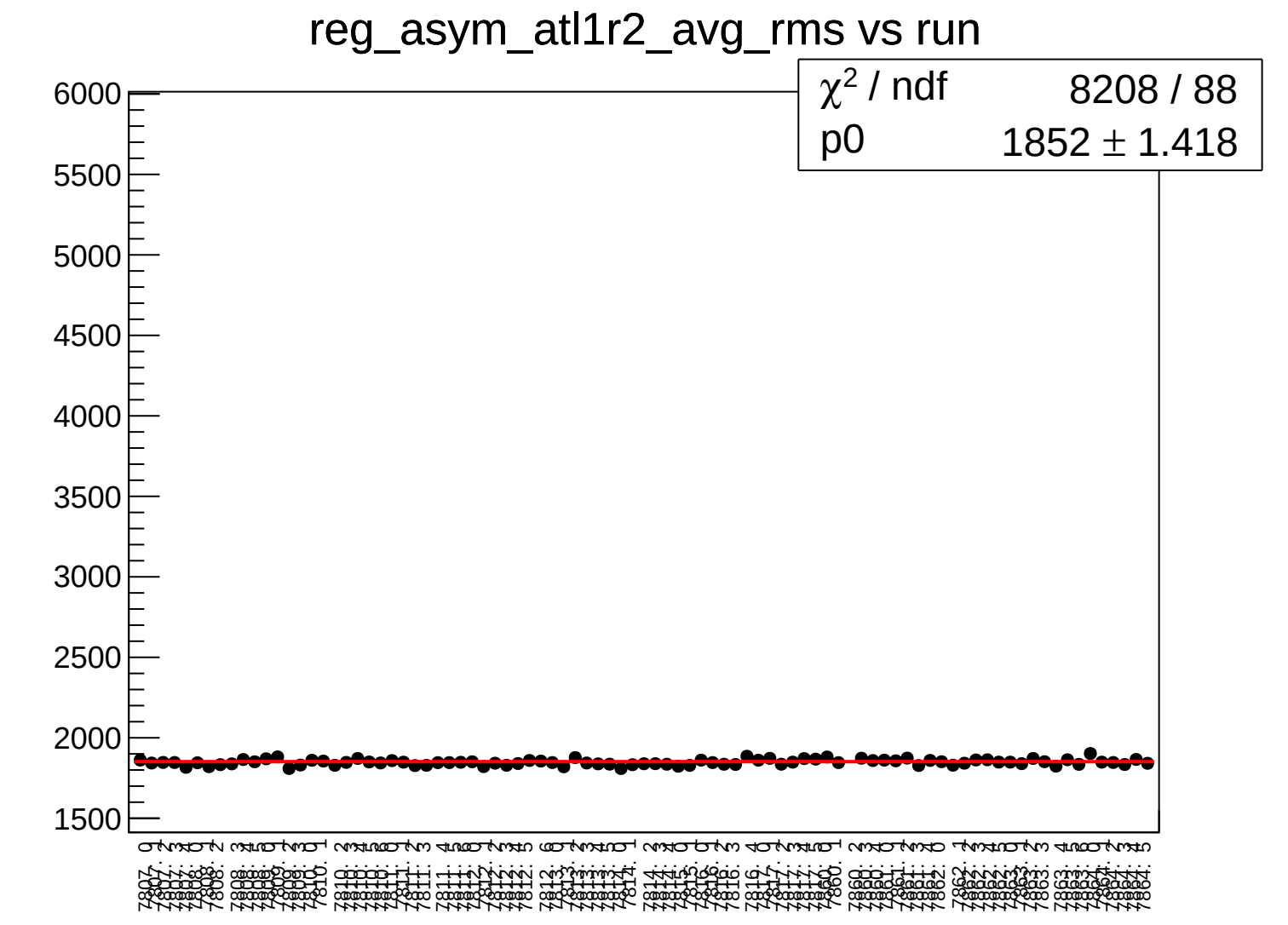

asym_at2_dd_mean vs run
×10^3
χ² / ndf 91.28 / 88
p0 −620.2 ± 3854
100
50
0
−50
−100
−150
pull
Entries 89
Mean 164.6
Std Dev 107.4
2
1
0
−1
−2

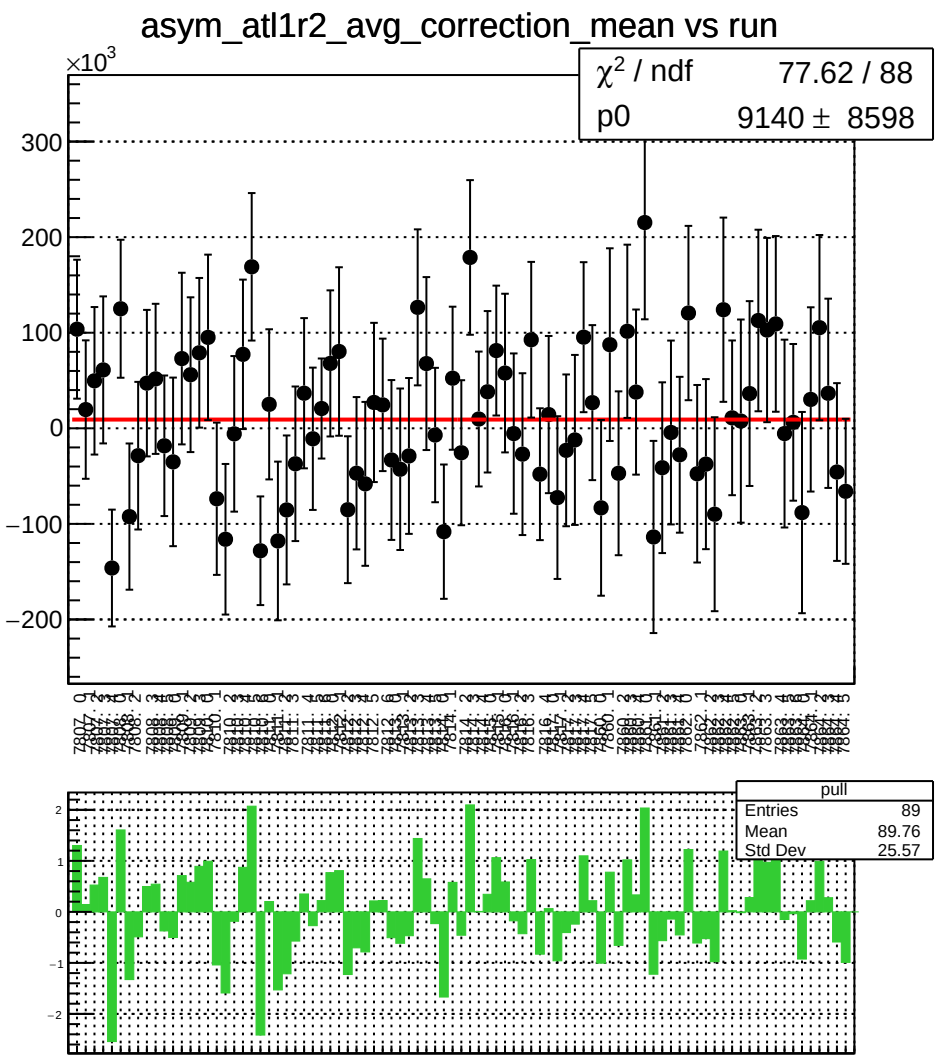

pull1D
Entries 89
Mean −0.01059
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

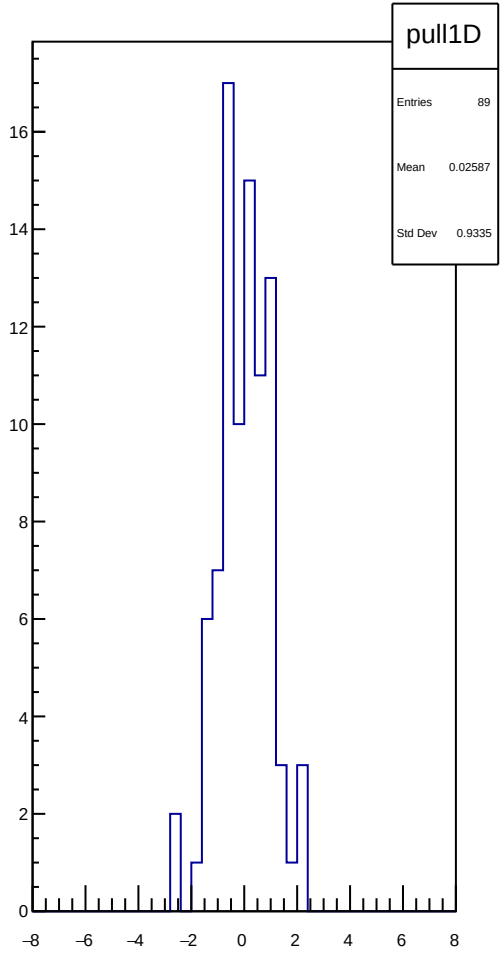

asym_at2_dd_rms vs run
χ² / ndf 4429 / 88
p0 3563 ± 2.725
4000
3800
3600
3400
3200


reg_asym_atl1r2_avg_mean vs run
χ² / ndf 92.45 / 88
p0 −70.14 ± 2005
×10³
pull
Entries 89
Mean −760.2
Std Dev 803.5

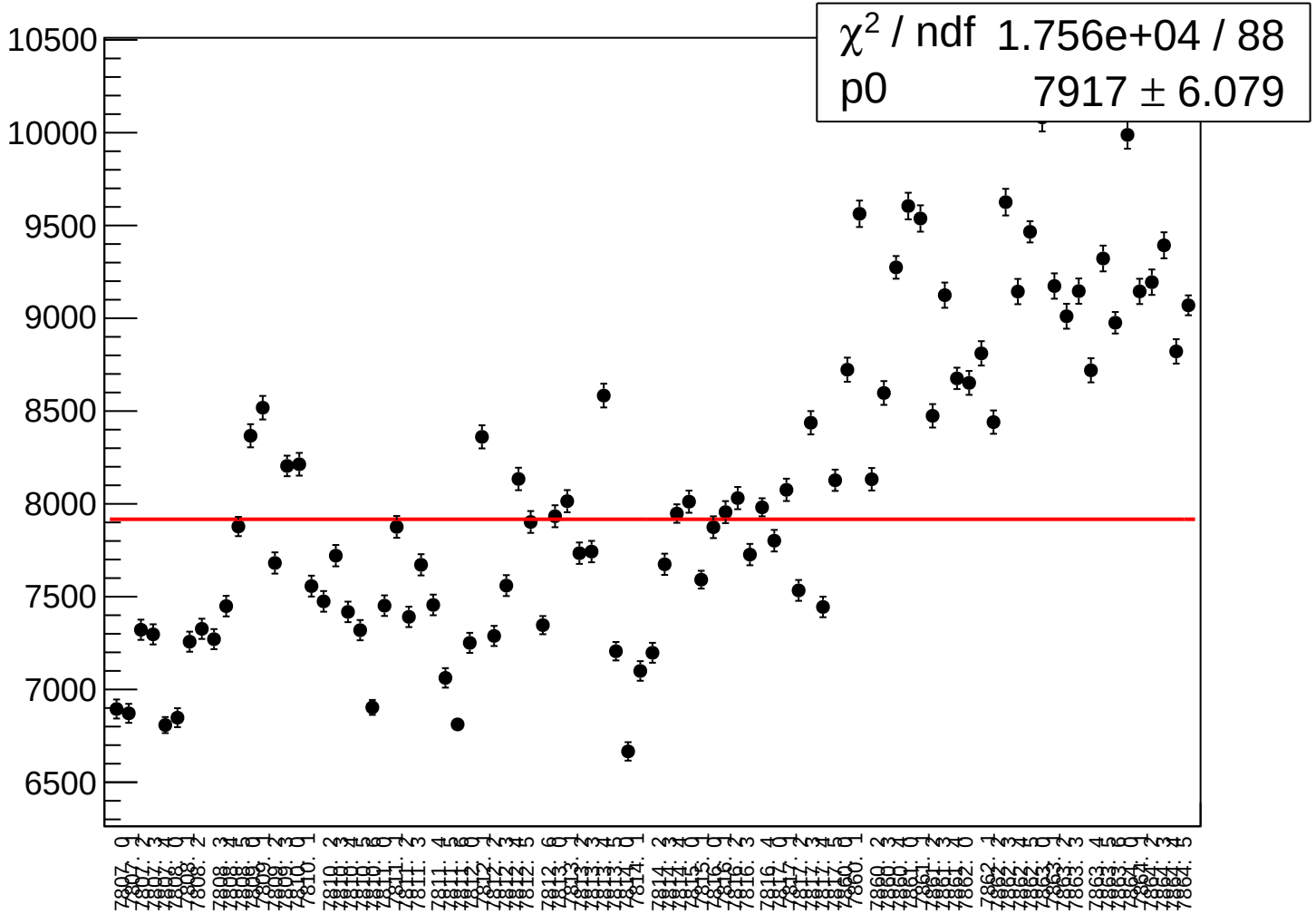

pull1D
Entries 89
Mean 0.001957
Std Dev 1.019

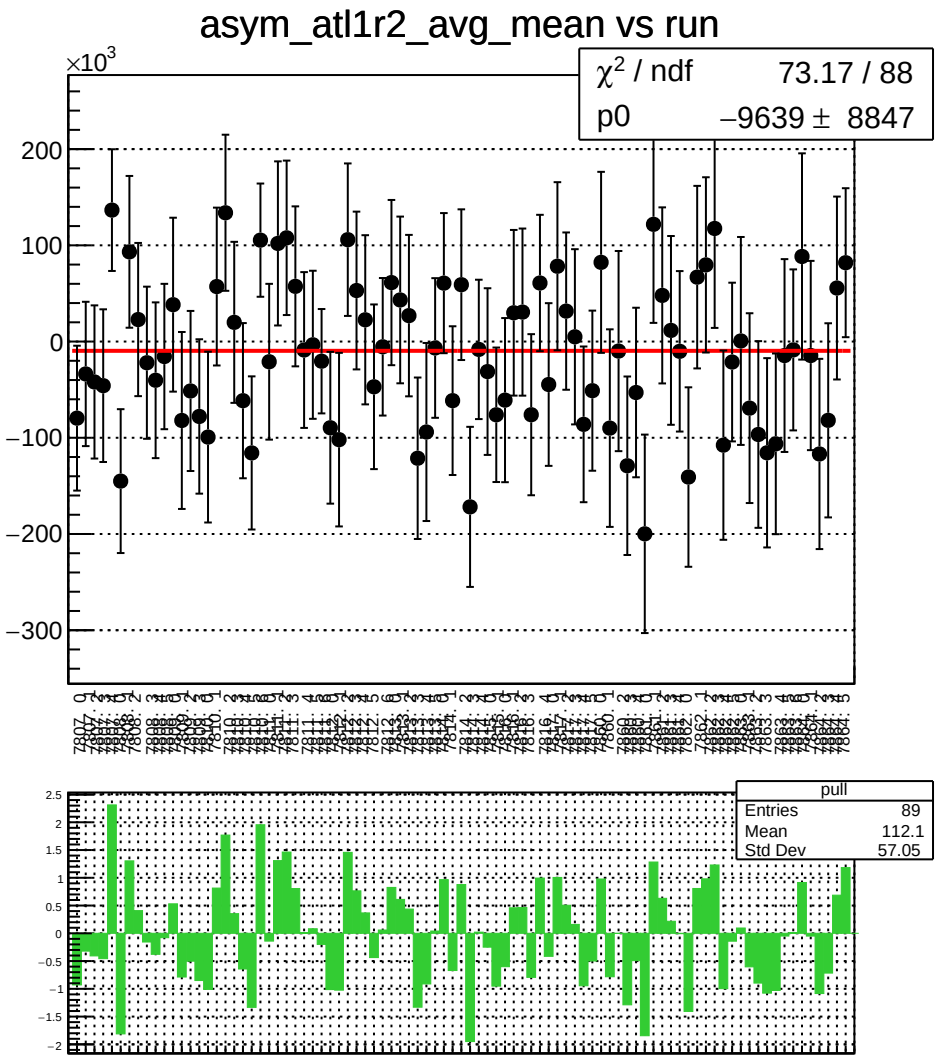

reg_asym_atl1r2_avg_rms vs run
χ^2 / ndf 8208 / 88
p0 1852 ± 1.418
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

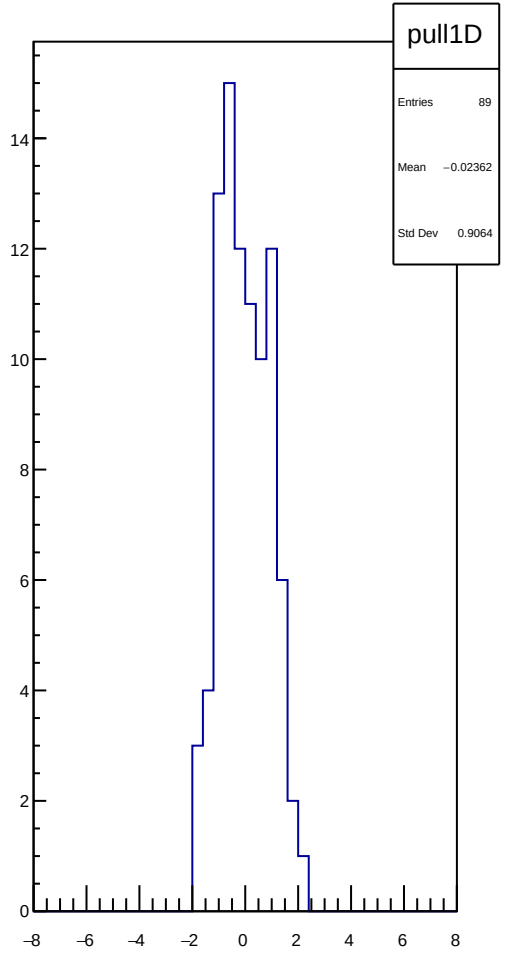

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 77.62 / 88
p0 9140 ± 8598
300
200
100
0
−100
−200
pull
Entries 89
Mean 89.76
Std Dev 25.57
2
1
0
−1
−2

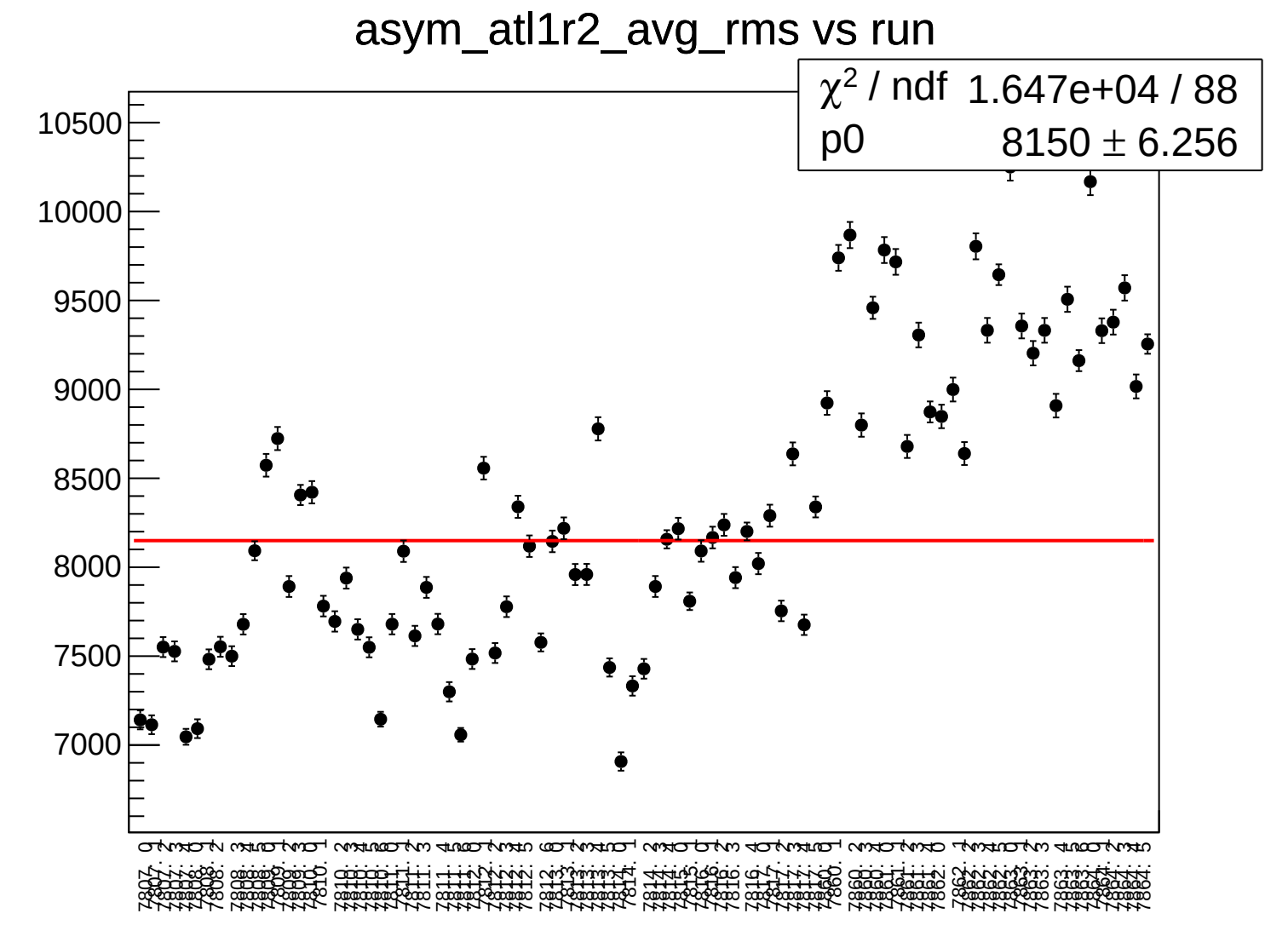

pull1D
Entries 89
Mean 0.02587
Std Dev 0.9335
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

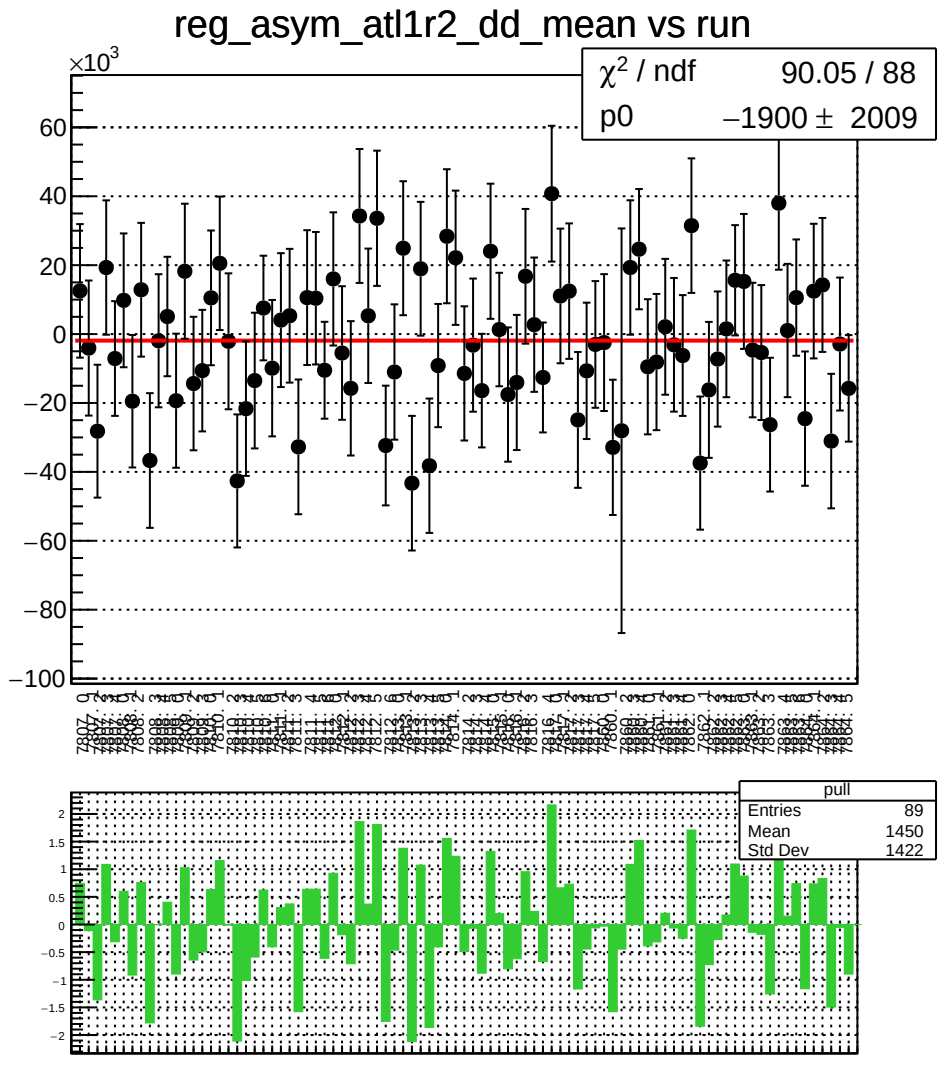
asym_atl1r2_avg_correction_rms vs run

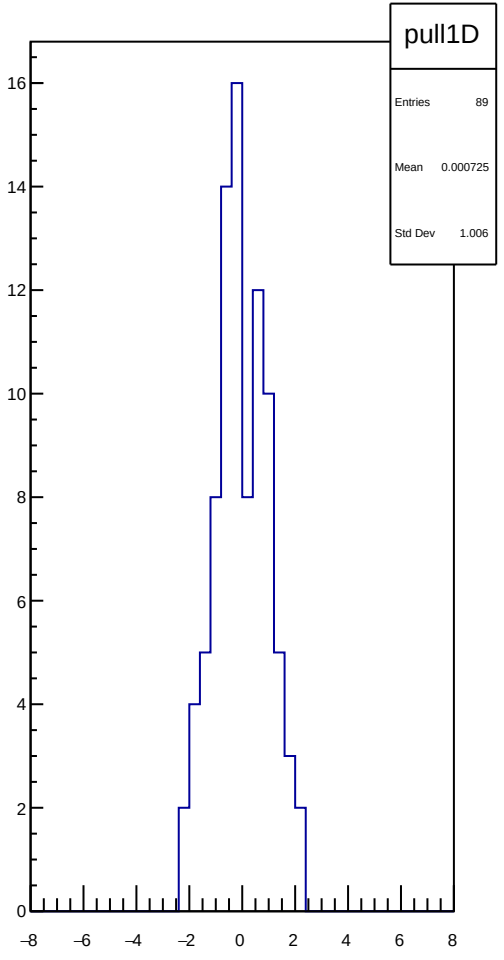


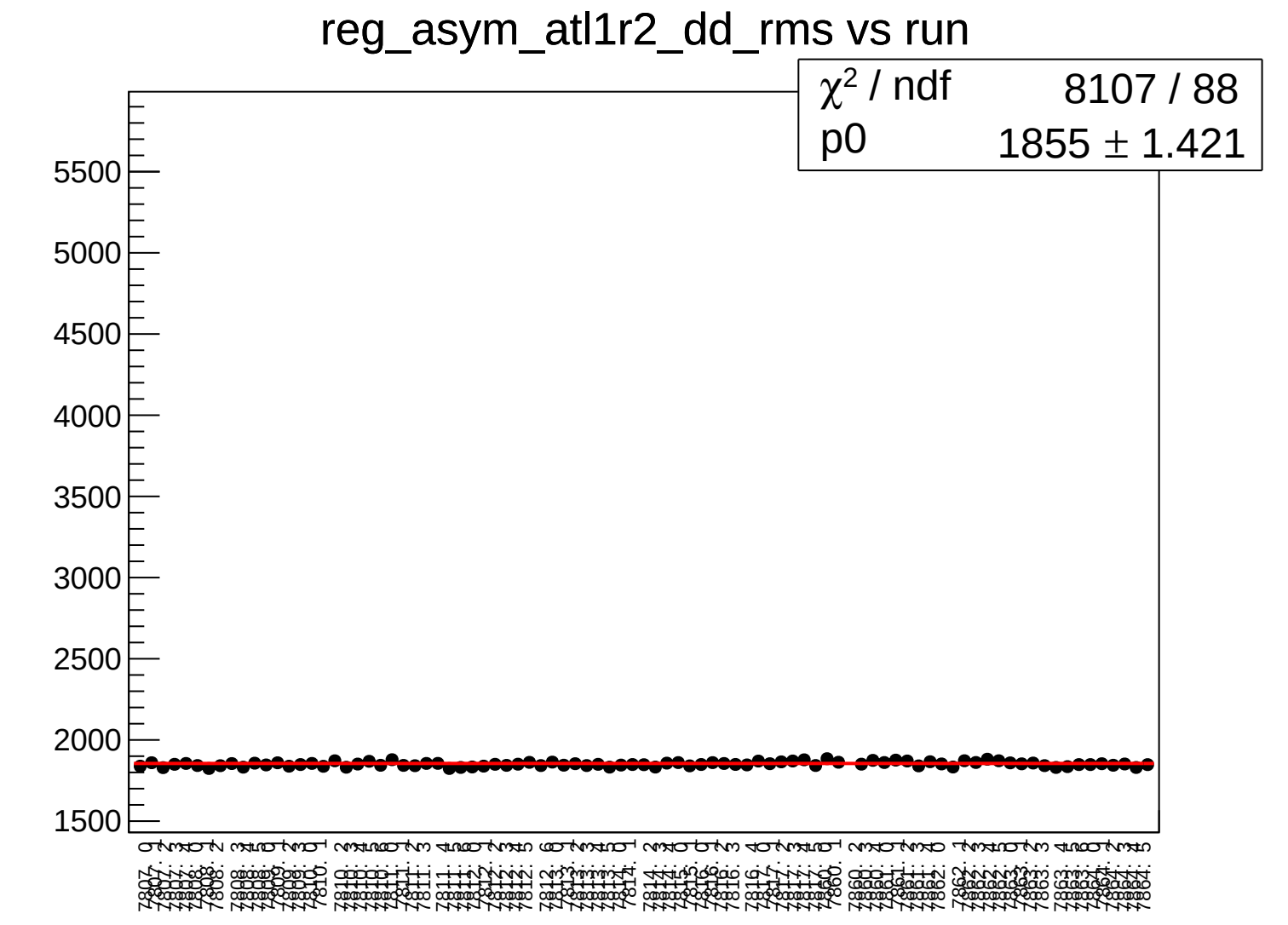

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 73.17 / 88
p0 −9639 ± 8847
200
100
0
−100
−200
−300
pull
Entries 89
Mean 112.1
Std Dev 57.05
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

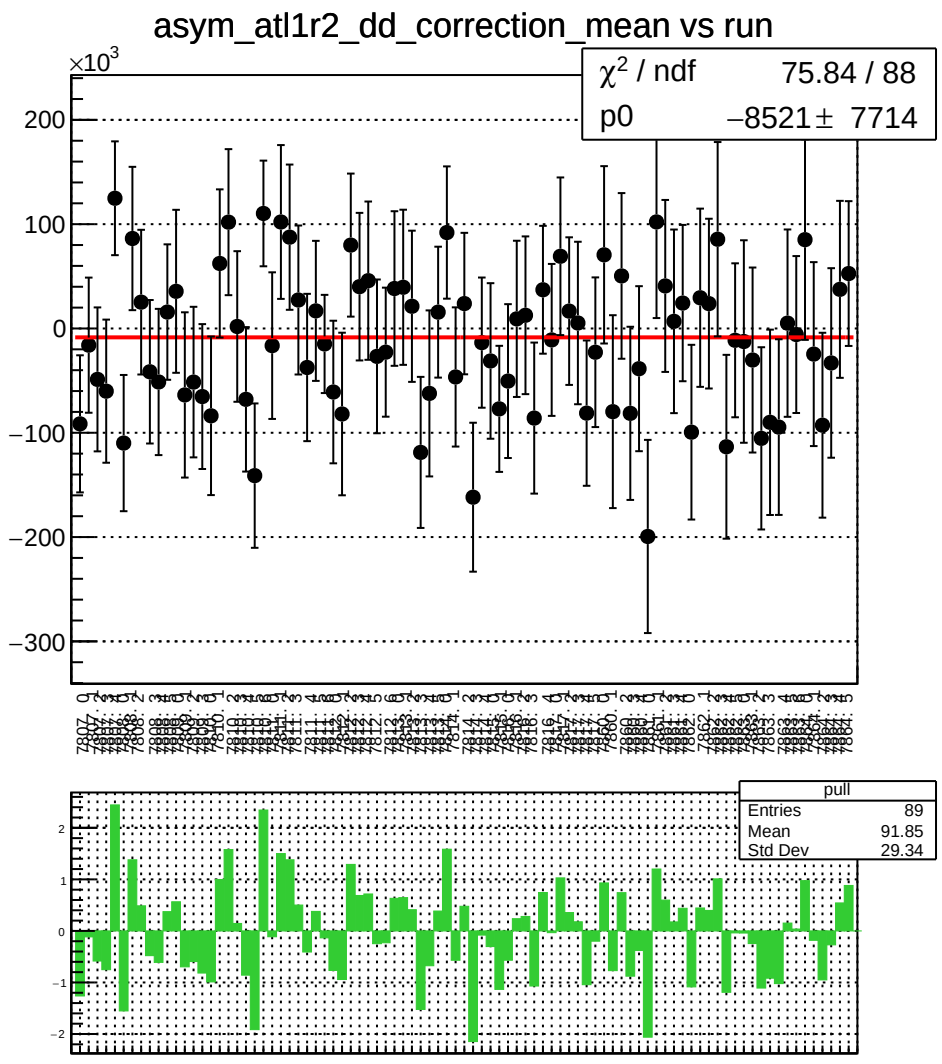

pull1D
Entries 89
Mean −0.02362
Std Dev 0.9064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

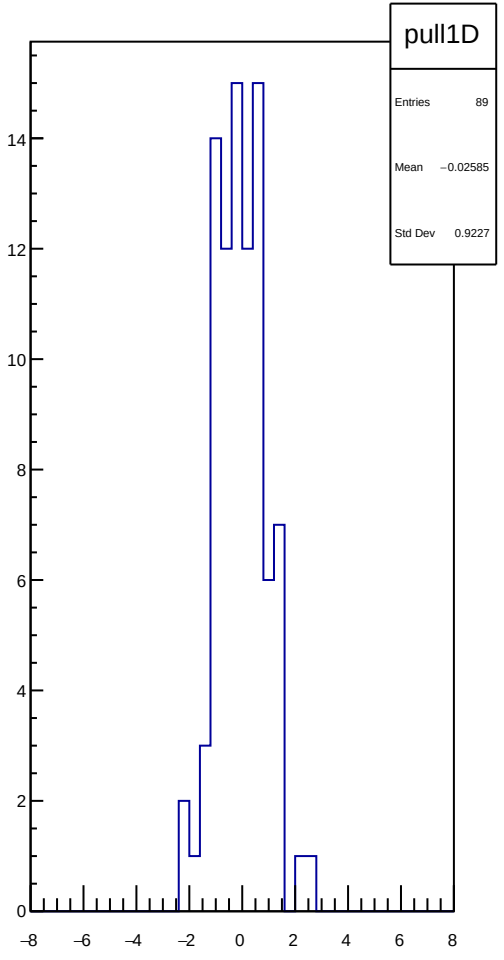

asym_atl1r2_avg_rms vs run
χ² / ndf 1.647e+04 / 88
p0 8150 ± 6.256
10500
10000
9500
9000
8500
8000
7500
7000

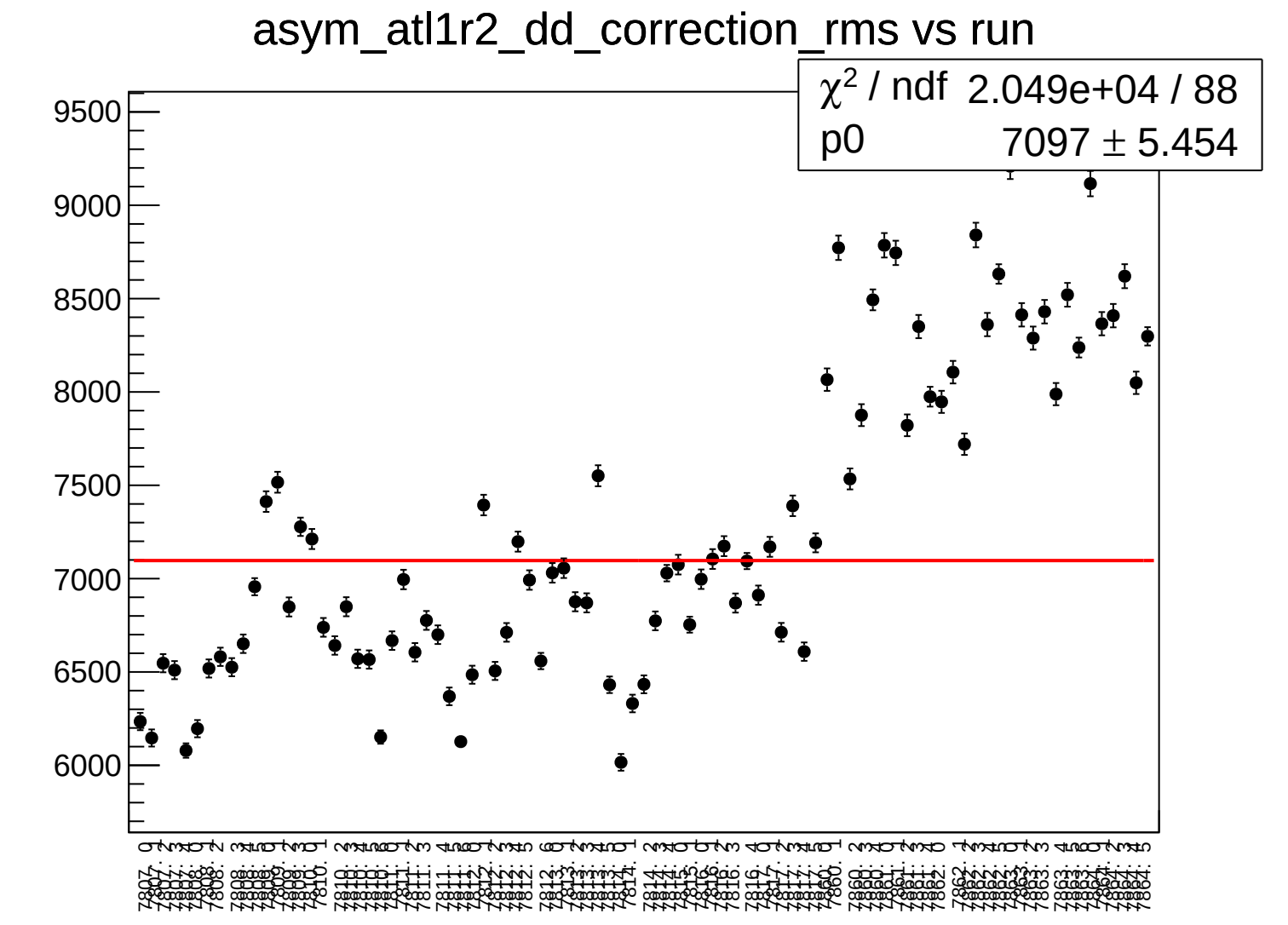

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 90.05 / 88
p0 −1900 ± 2009
×10³
pull
Entries 89
Mean 1450
Std Dev 1422

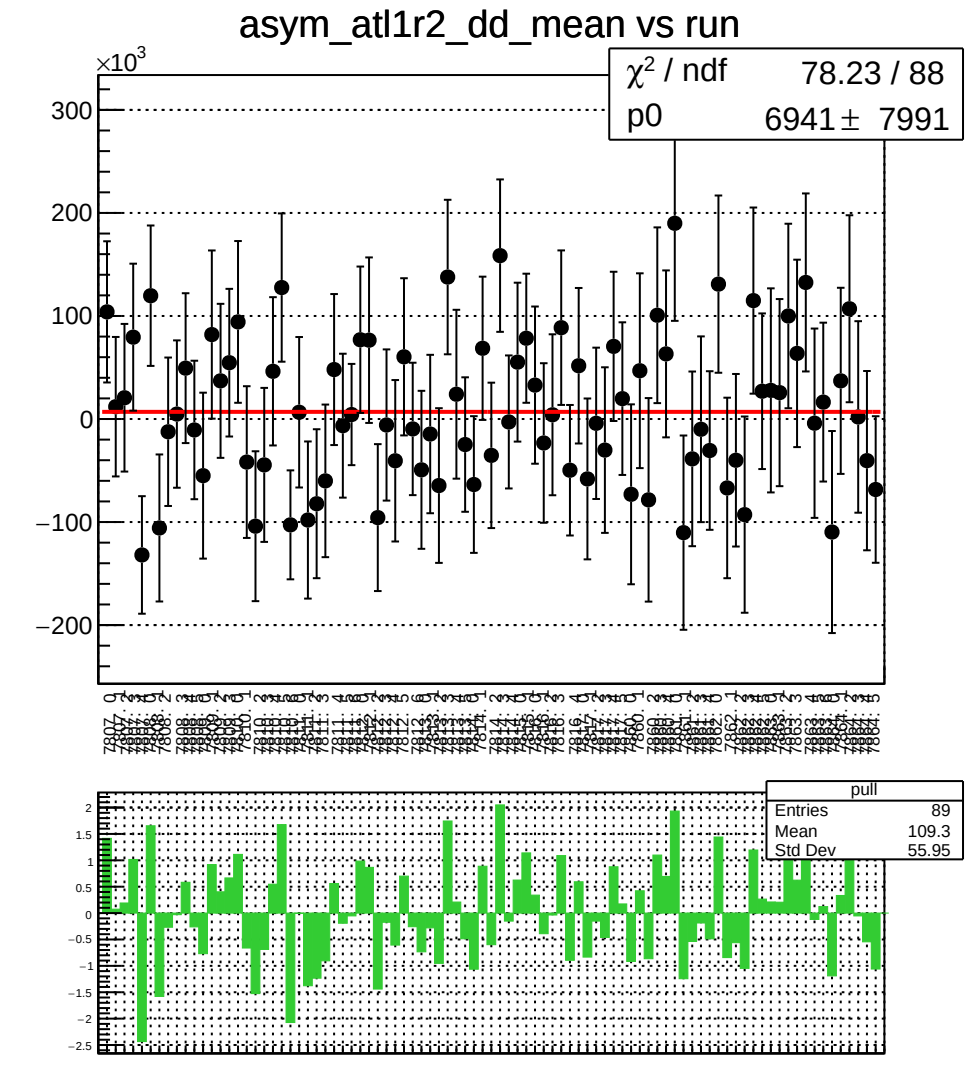

pull1D
Entries 89
Mean 0.000725
Std Dev 1.006

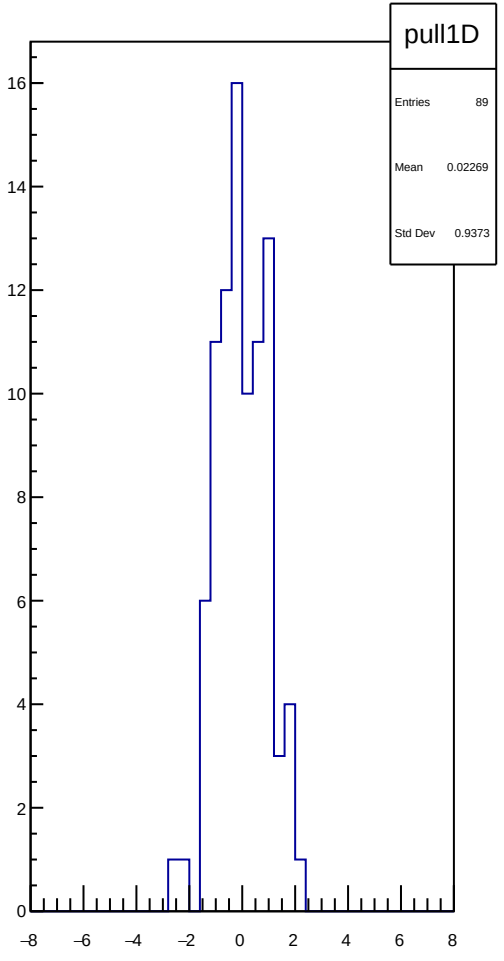

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 8107 / 88
p0 1855 ± 1.421
5500
5000
4500
4000
3500
3000
2500
2000
1500

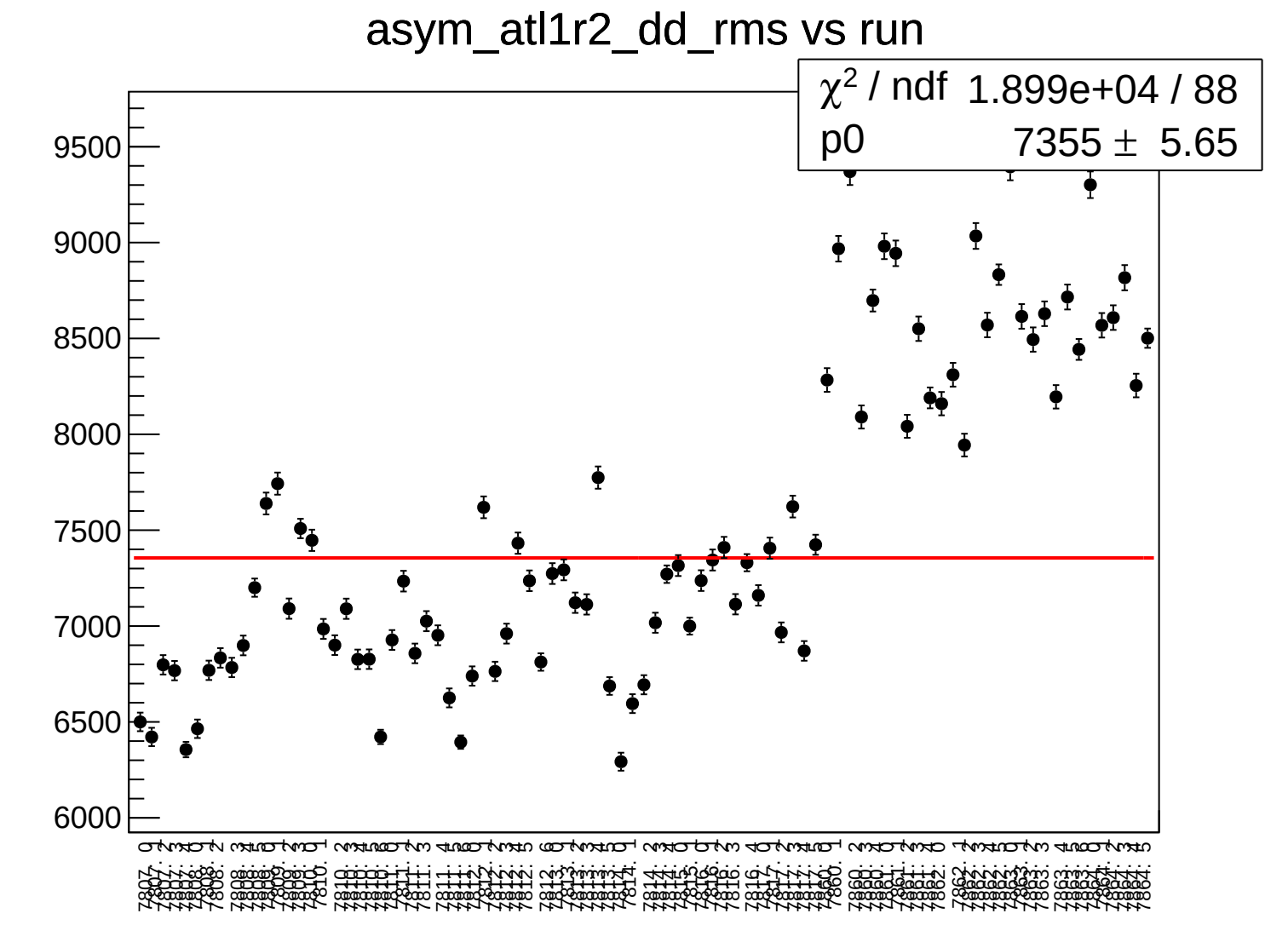

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 75.84 / 88
p0 −8521 ± 7714
200
100
0
−100
−200
−300
pull
Entries 89
Mean 91.85
Std Dev 29.34
2
1
0
−1
−2

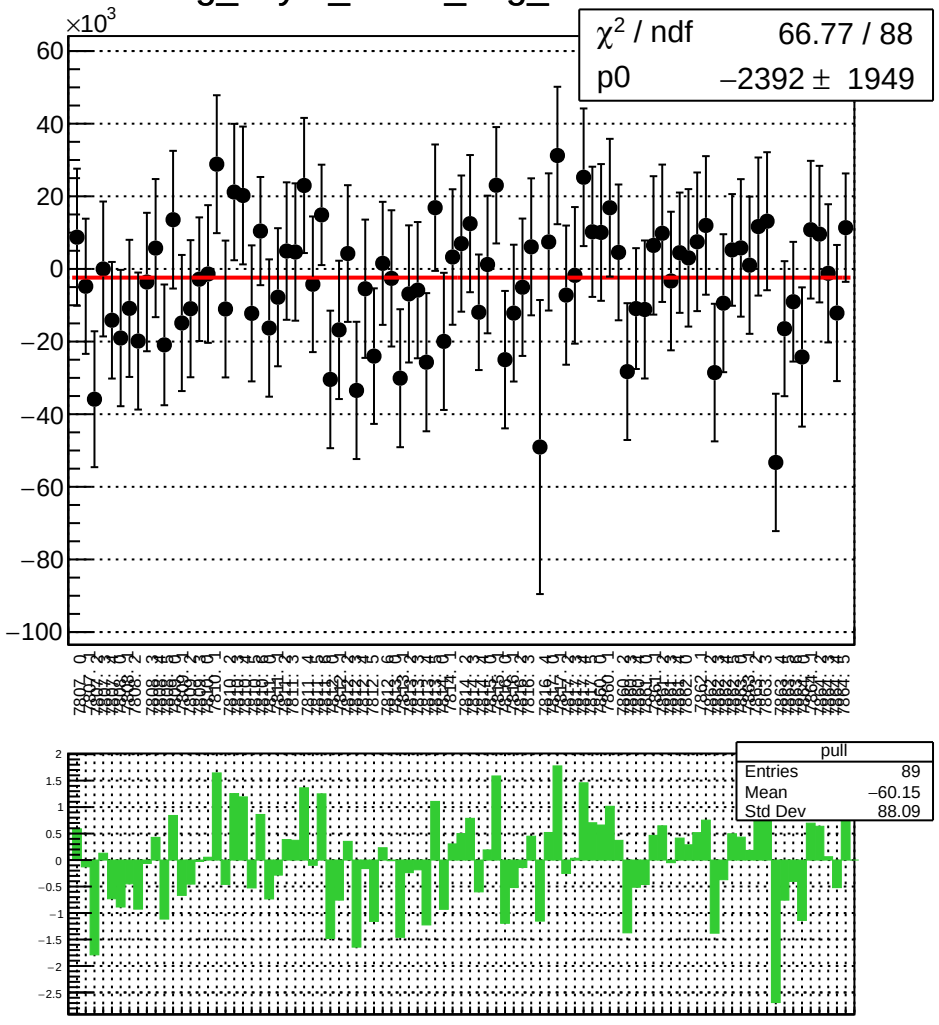

pull1D
Entries 89
Mean −0.02585
Std Dev 0.9227
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

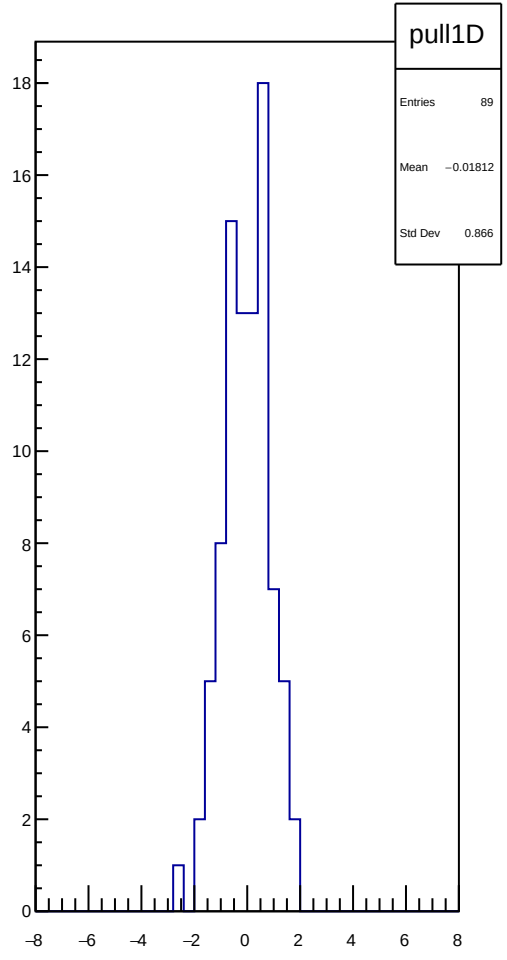

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 2.049e+04 / 88
p0 7097 ± 5.454
9500
9000
8500
8000
7500
7000
6500
6000

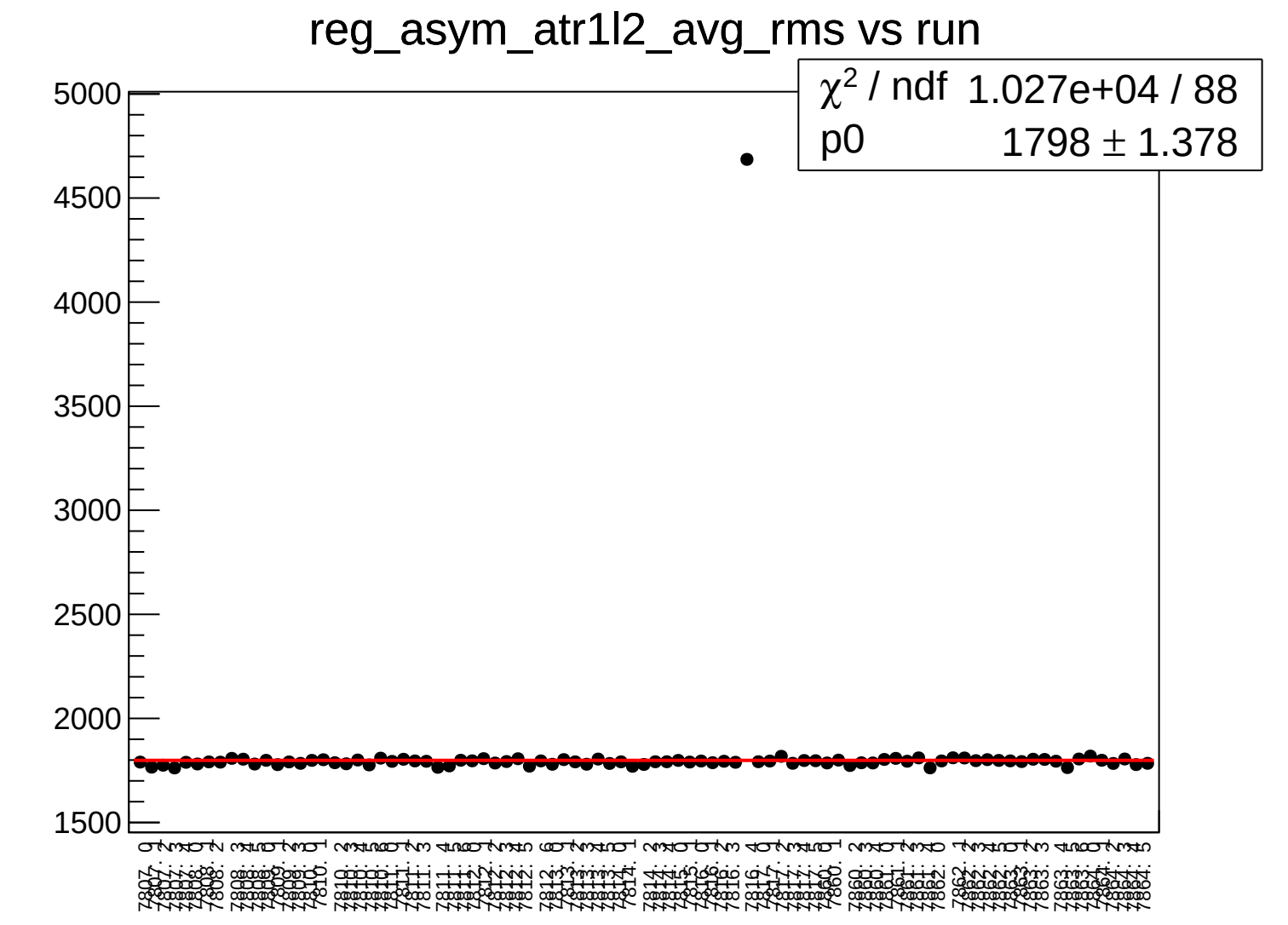

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 78.23 / 88
p0 6941 ± 7991
pull
Entries 89
Mean 109.3
Std Dev 55.95

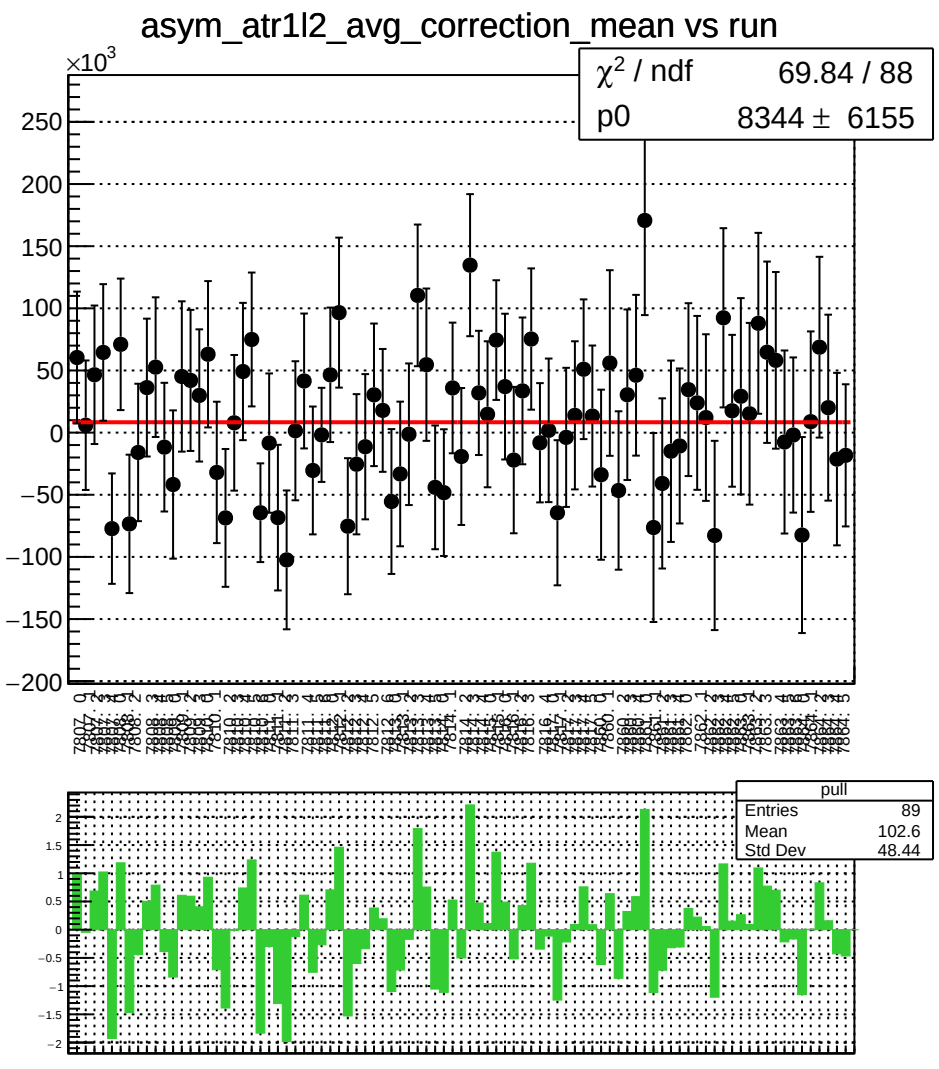

pull1D
Entries 89
Mean 0.02269
Std Dev 0.9373

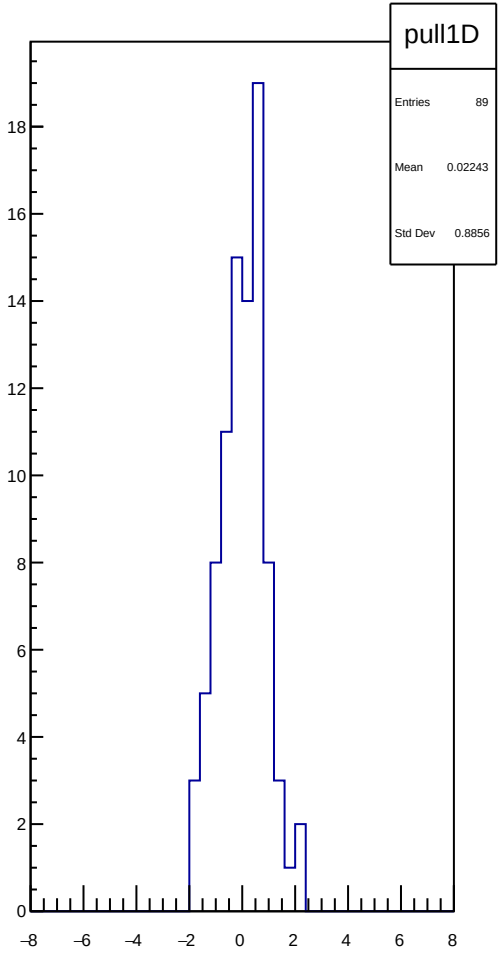

asym_atl1r2_dd_rms vs run
χ² / ndf 1.899e+04 / 88
p0 7355 ± 5.65
9500
9000
8500
8000
7500
7000
6500
6000

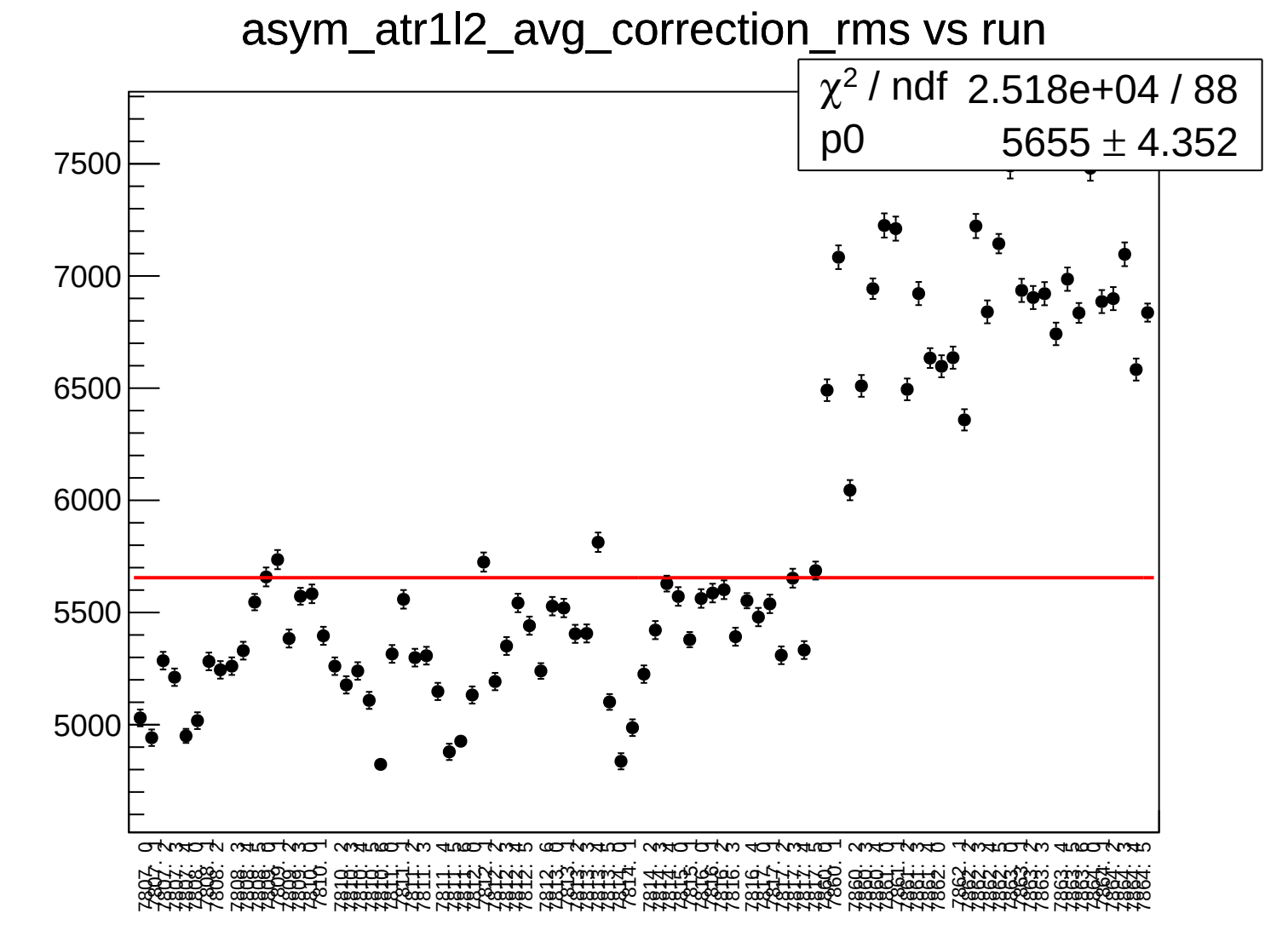

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 66.77 / 88
p0 −2392 ± 1949
pull
Entries 89
Mean −60.15
Std Dev 88.09

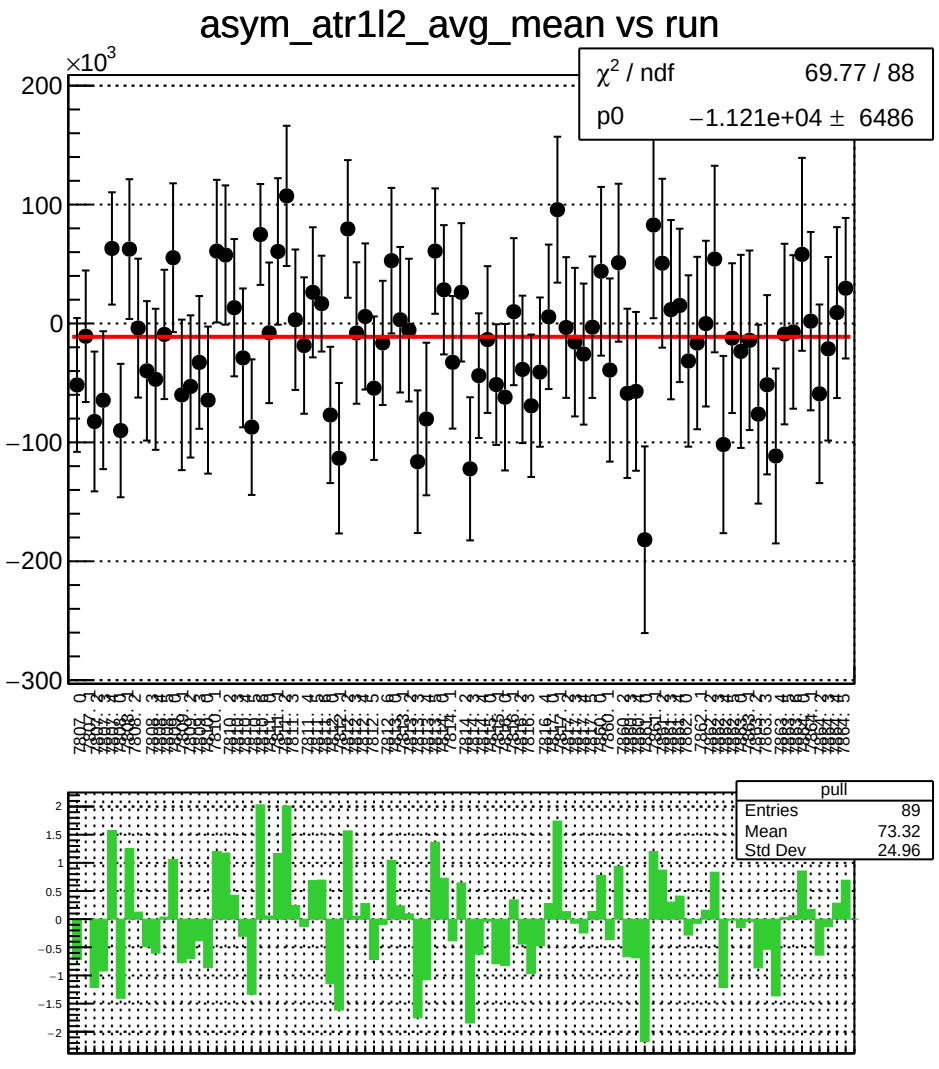

pull1D
Entries 89
Mean −0.01812
Std Dev 0.866

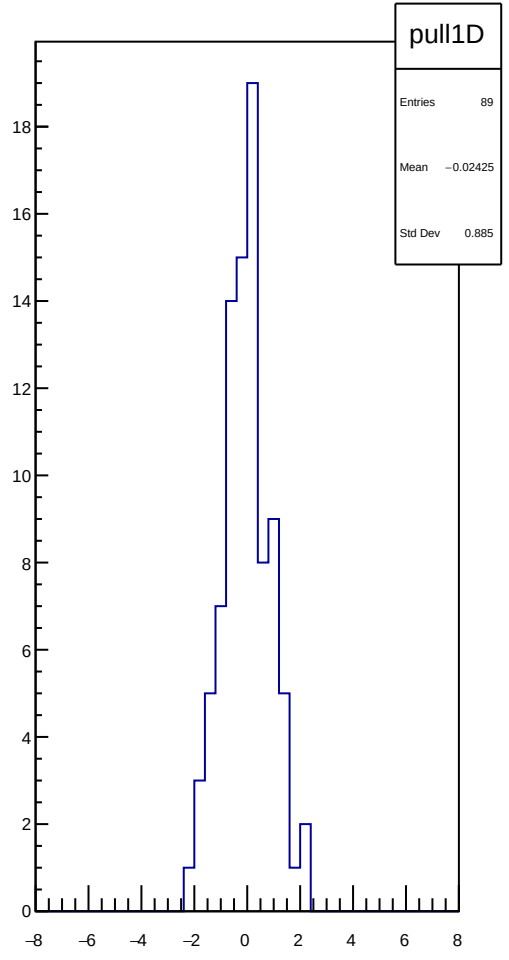

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 1.027e+04 / 88
p0 1798 ± 1.378
5000
4500
4000
3500
3000
2500
2000
1500

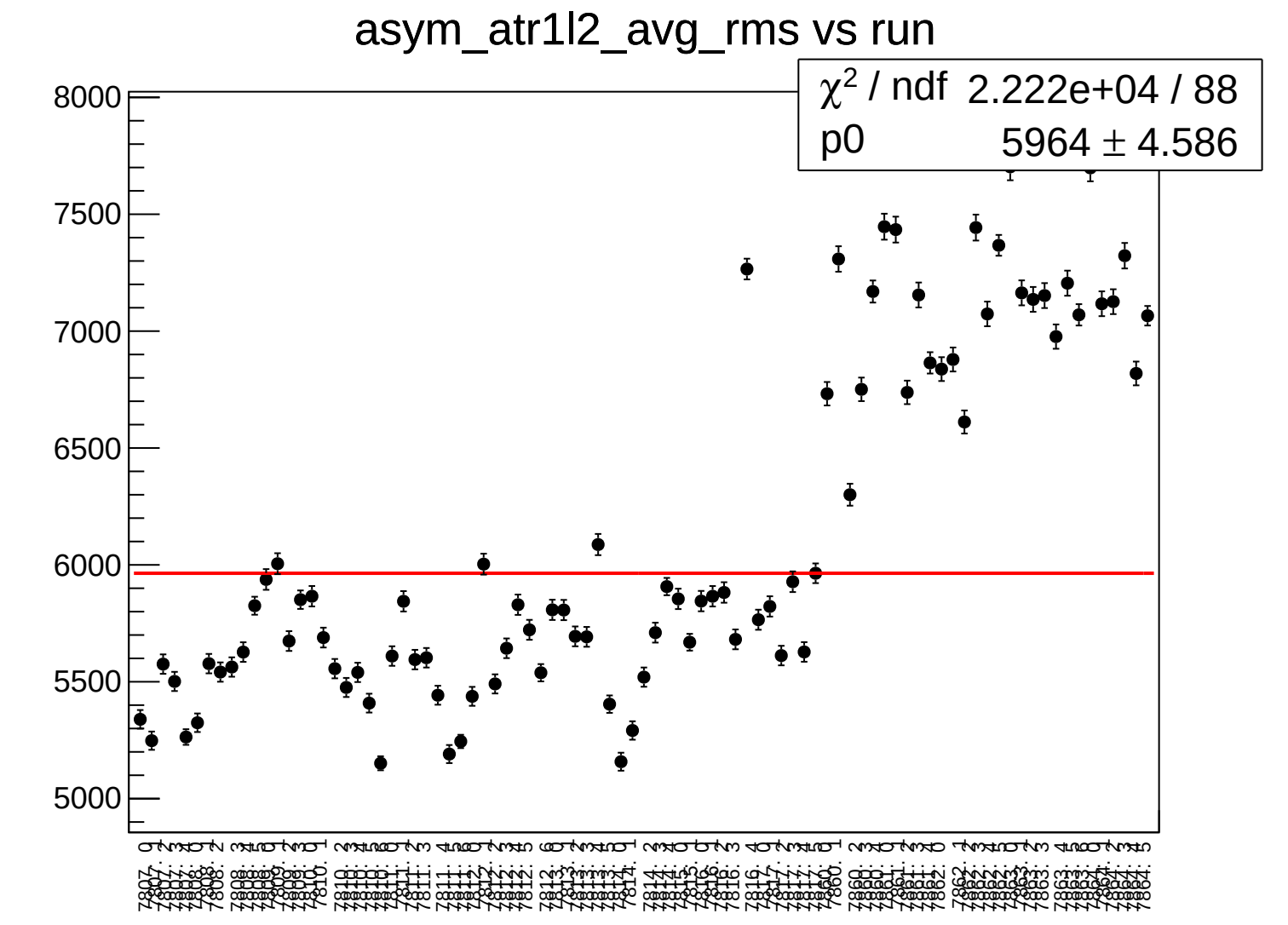

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 69.84 / 88
p0 8344 ± 6155
pull
Entries 89
Mean 102.6
Std Dev 48.44

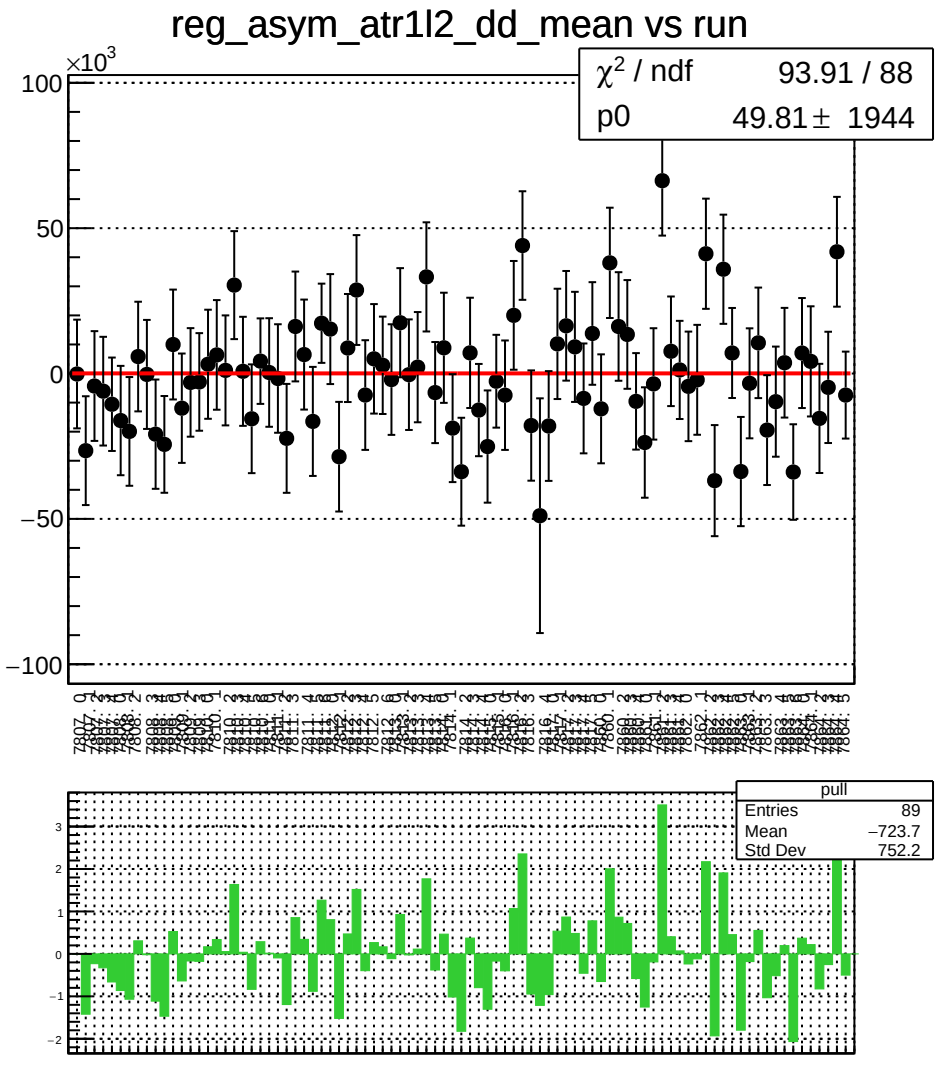

pull1D
Entries 89
Mean 0.02243
Std Dev 0.8856

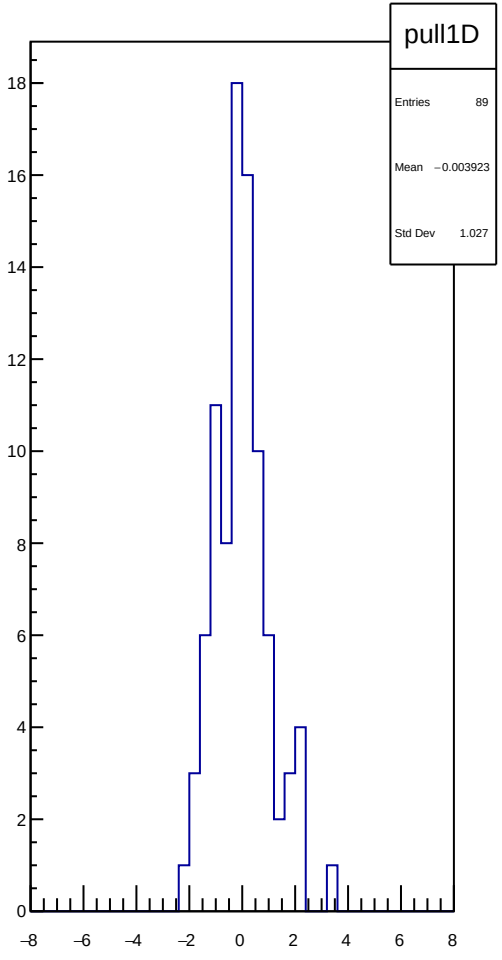

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 2.518e+04 / 88
p0 5655 ± 4.352
7500
7000
6500
6000
5500
5000

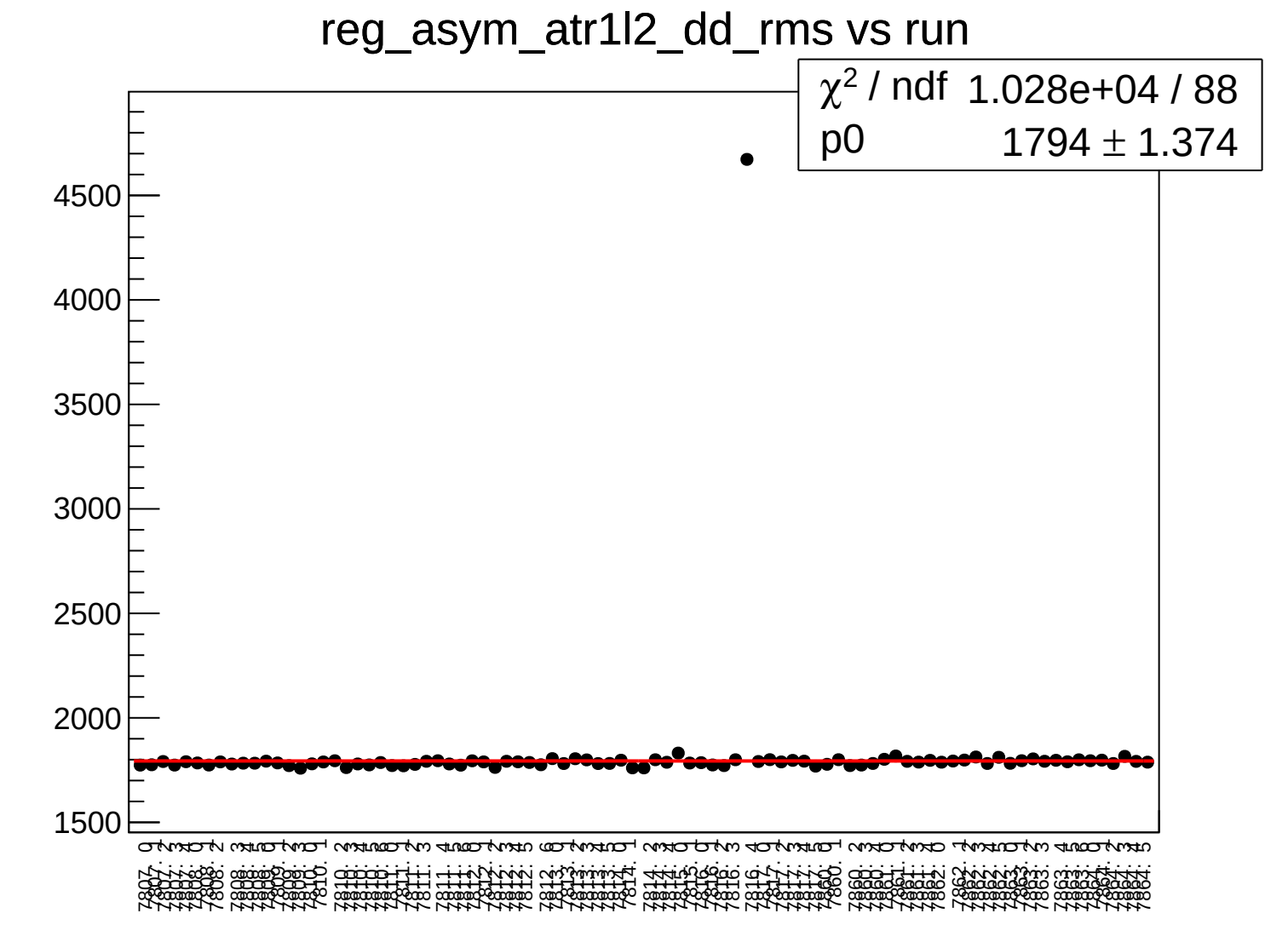

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 69.77 / 88
p0 −1.121e+04 ± 6486
200
100
0
−100
−200
−300
pull
Entries 89
Mean 73.32
Std Dev 24.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

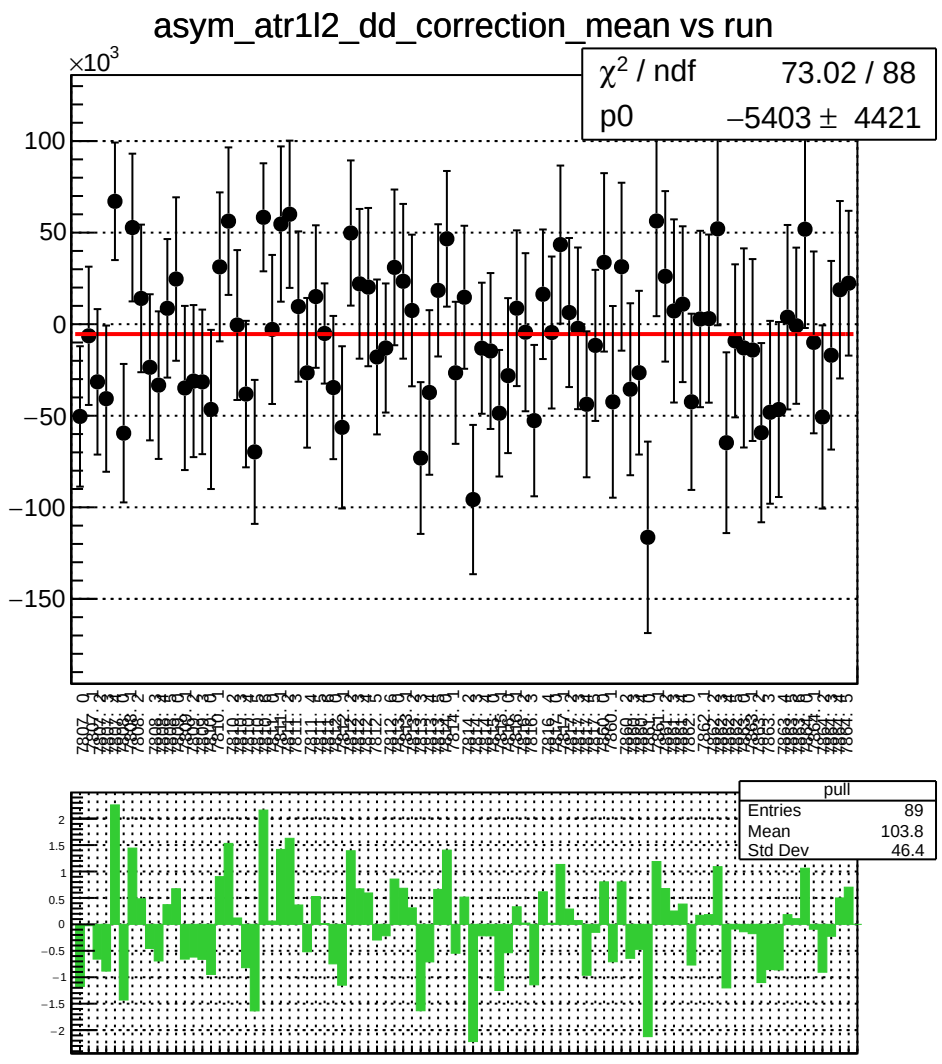

pull1D
Entries 89
Mean −0.02425
Std Dev 0.885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

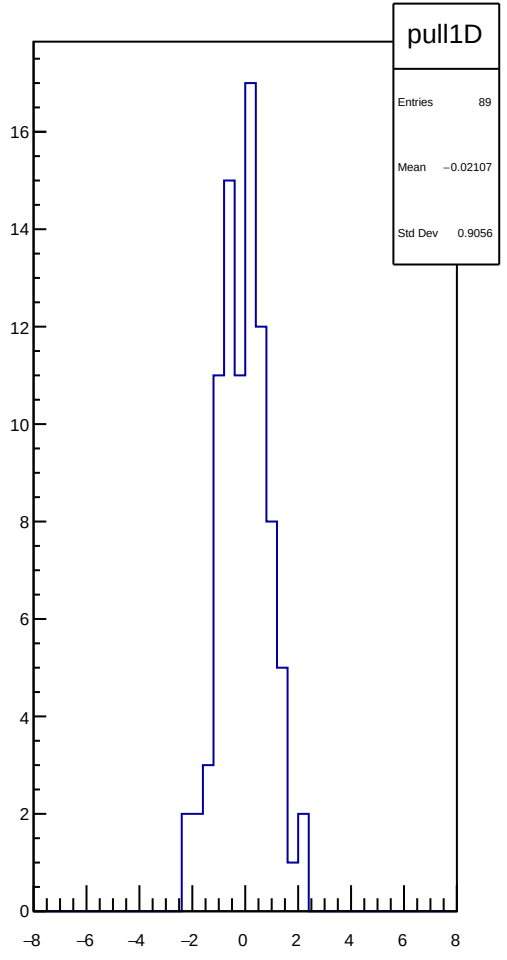

asym_atr1l2_avg_rms vs run
χ^2 / ndf 2.222e+04 / 88
p0 5964 ± 4.586
8000
7500
7000
6500
6000
5500
5000

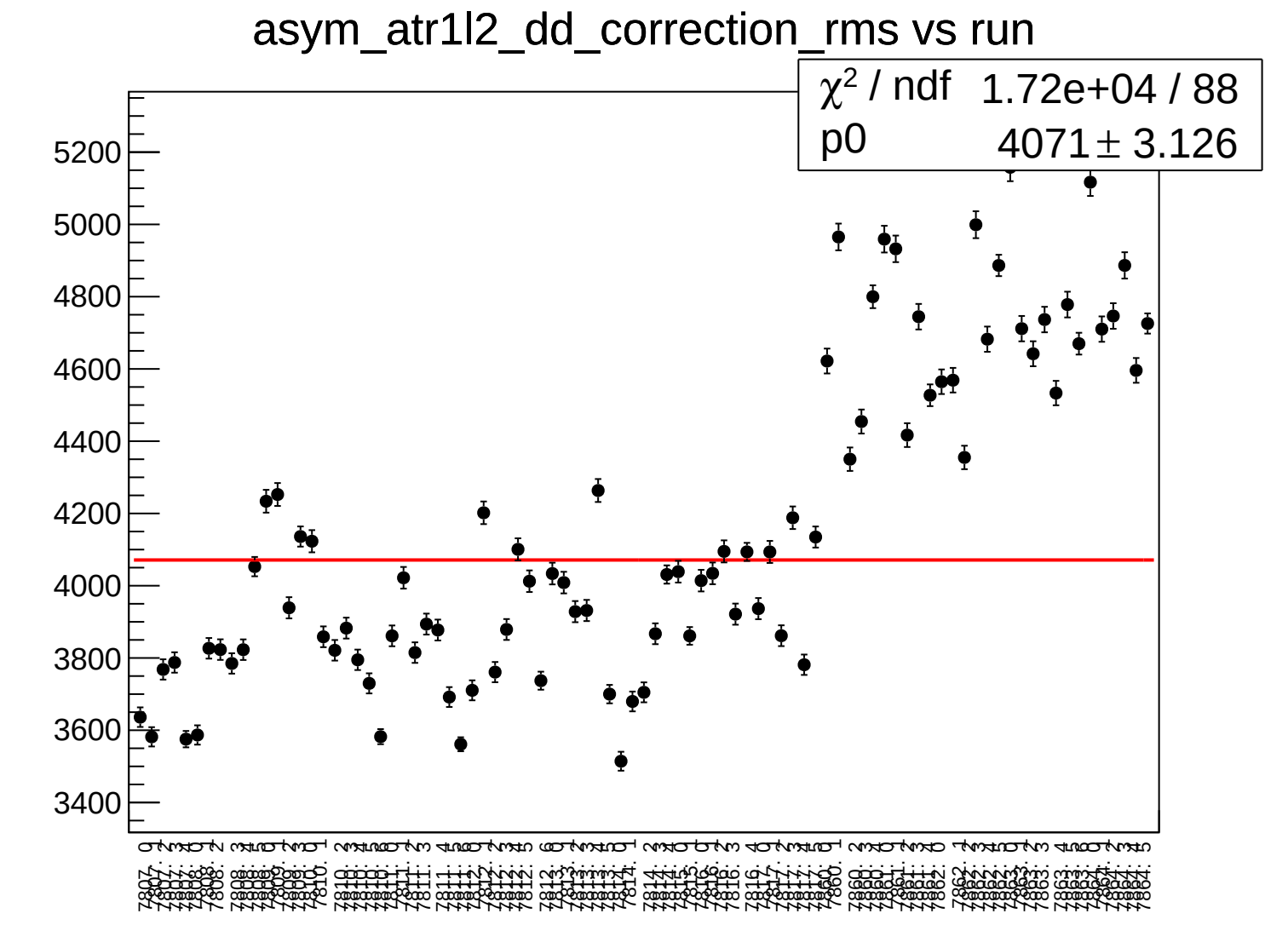

reg_asym_atr1l2_dd_mean vs run
χ^2 / ndf 93.91 / 88
p0 49.81 ± 1944
pull
Entries 89
Mean −723.7
Std Dev 752.2

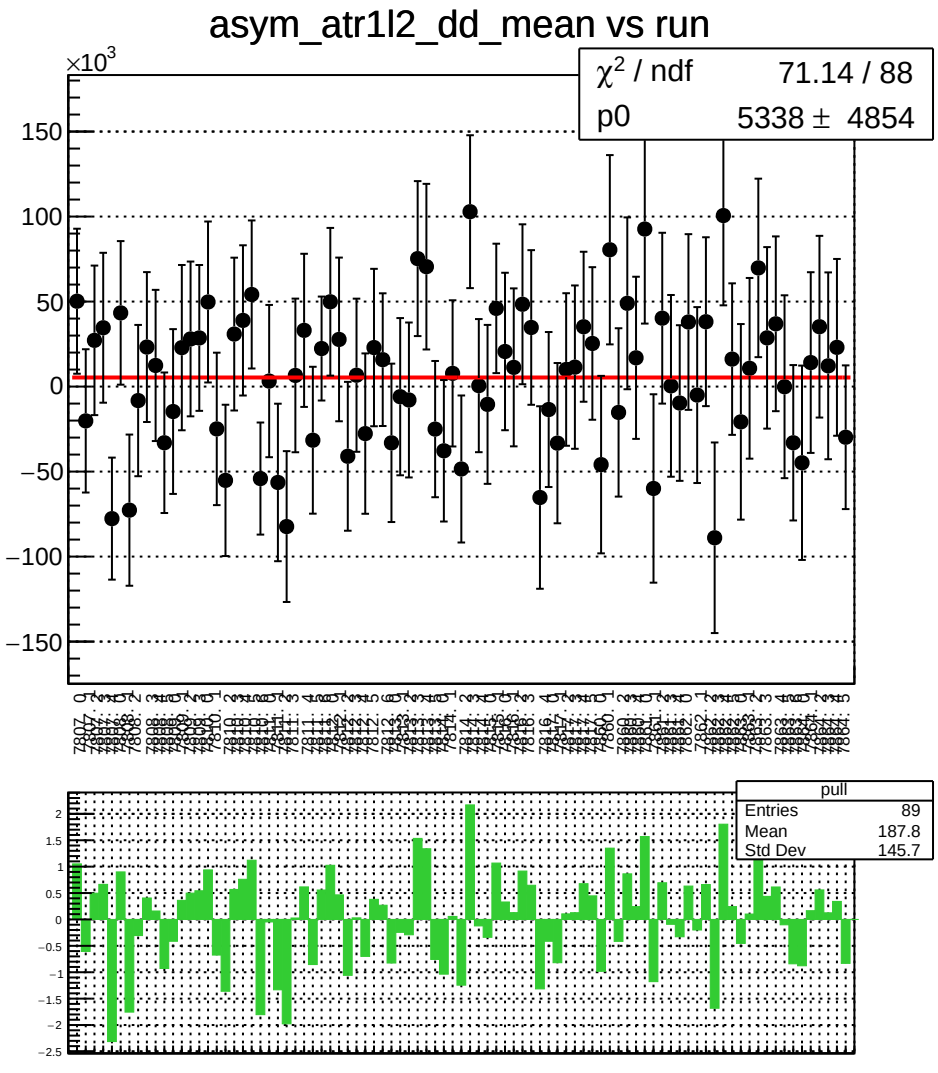

pull1D
Entries 89
Mean −0.003923
Std Dev 1.027

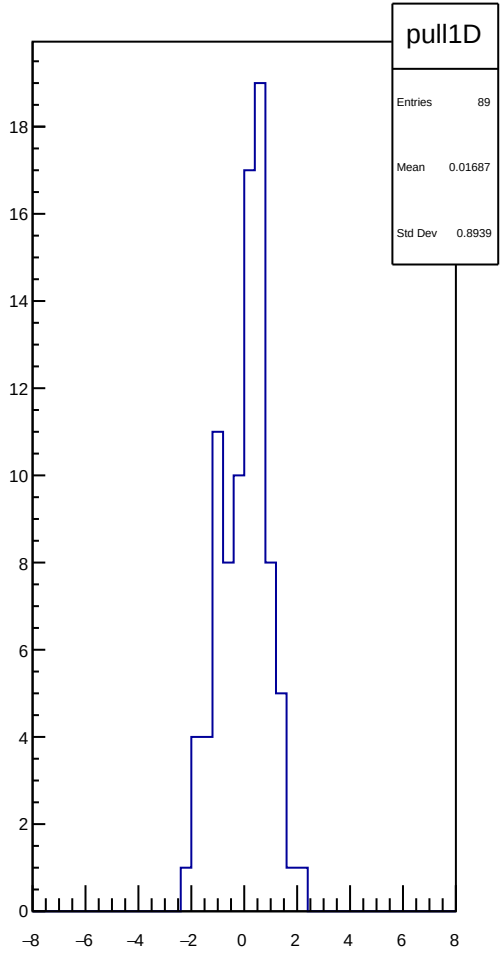

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 1.028e+04 / 88
p0 1794 ± 1.374
4500
4000
3500
3000
2500
2000
1500


asym_atr1l2_dd_correction_mean vs run
×10^3
χ^2 / ndf 73.02 / 88
p0 −5403 ± 4421
100
50
0
−50
−100
−150
pull
Entries 89
Mean 103.8
Std Dev 46.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

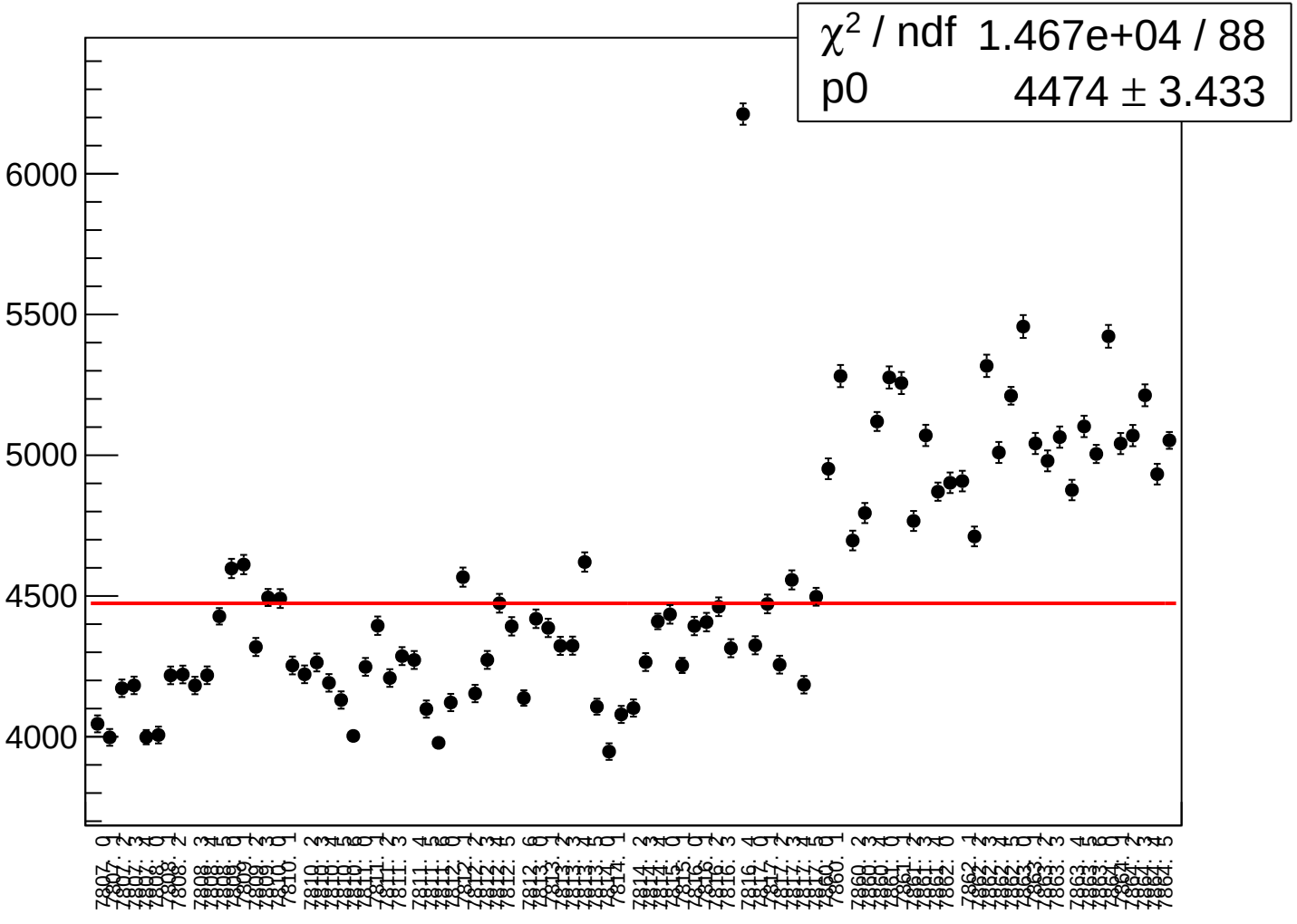

pull1D
Entries 89
Mean −0.02107
Std Dev 0.9056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

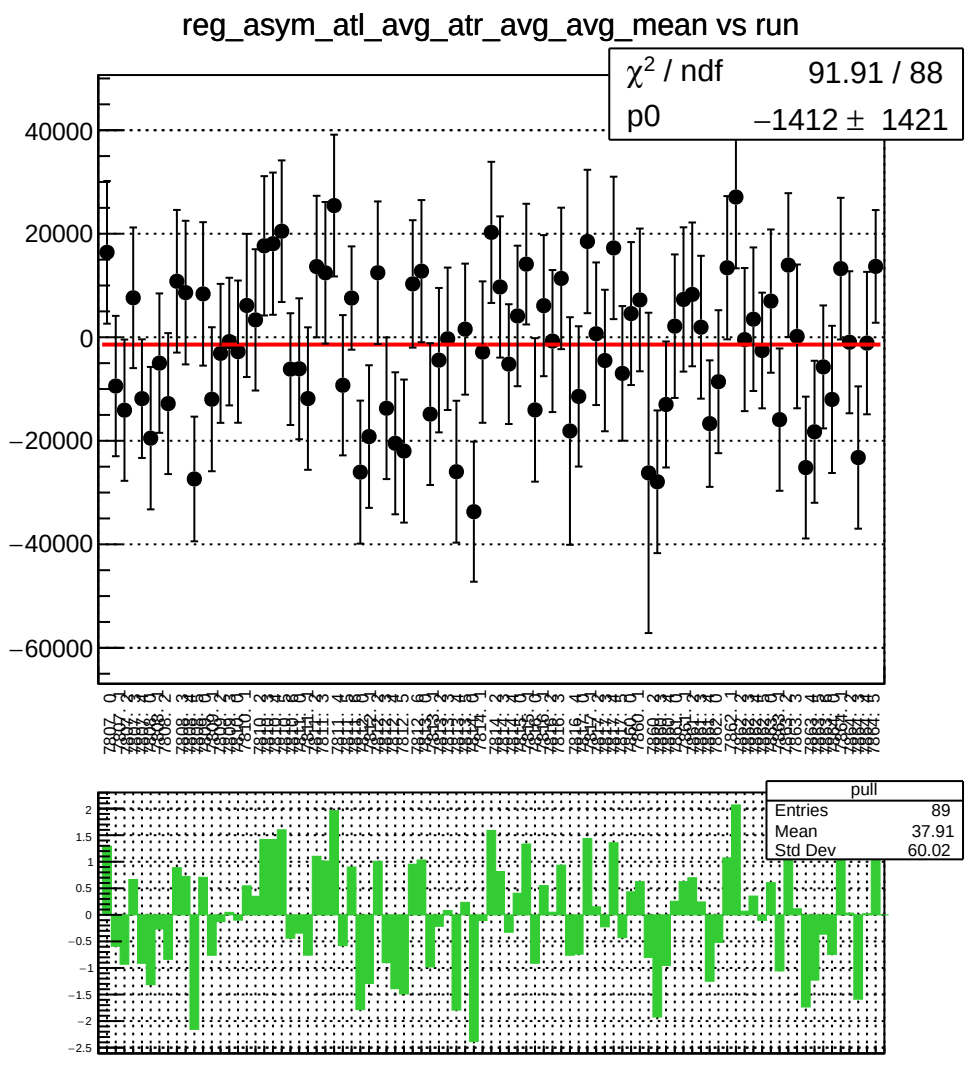

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 1.72e+04 / 88
p0 4071 ± 3.126
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

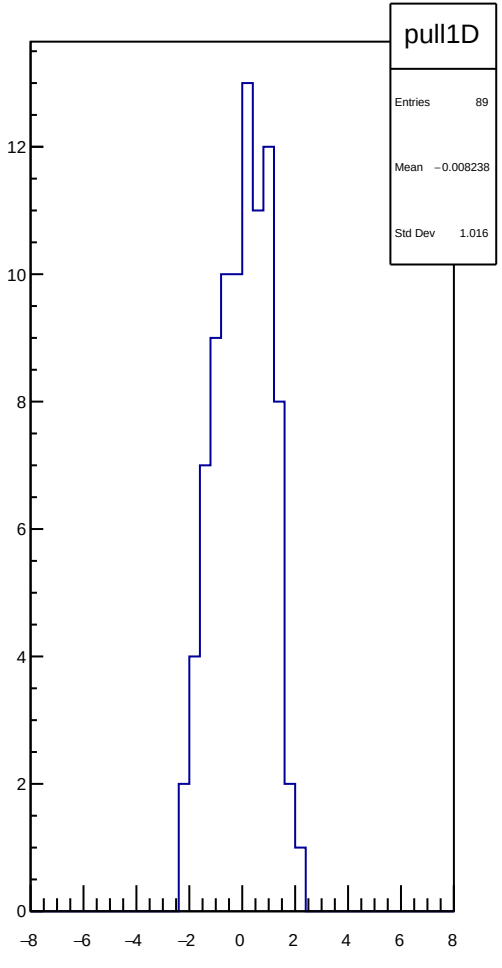

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 71.14 / 88
p0 5338 ± 4854
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 187.8
Std Dev 145.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

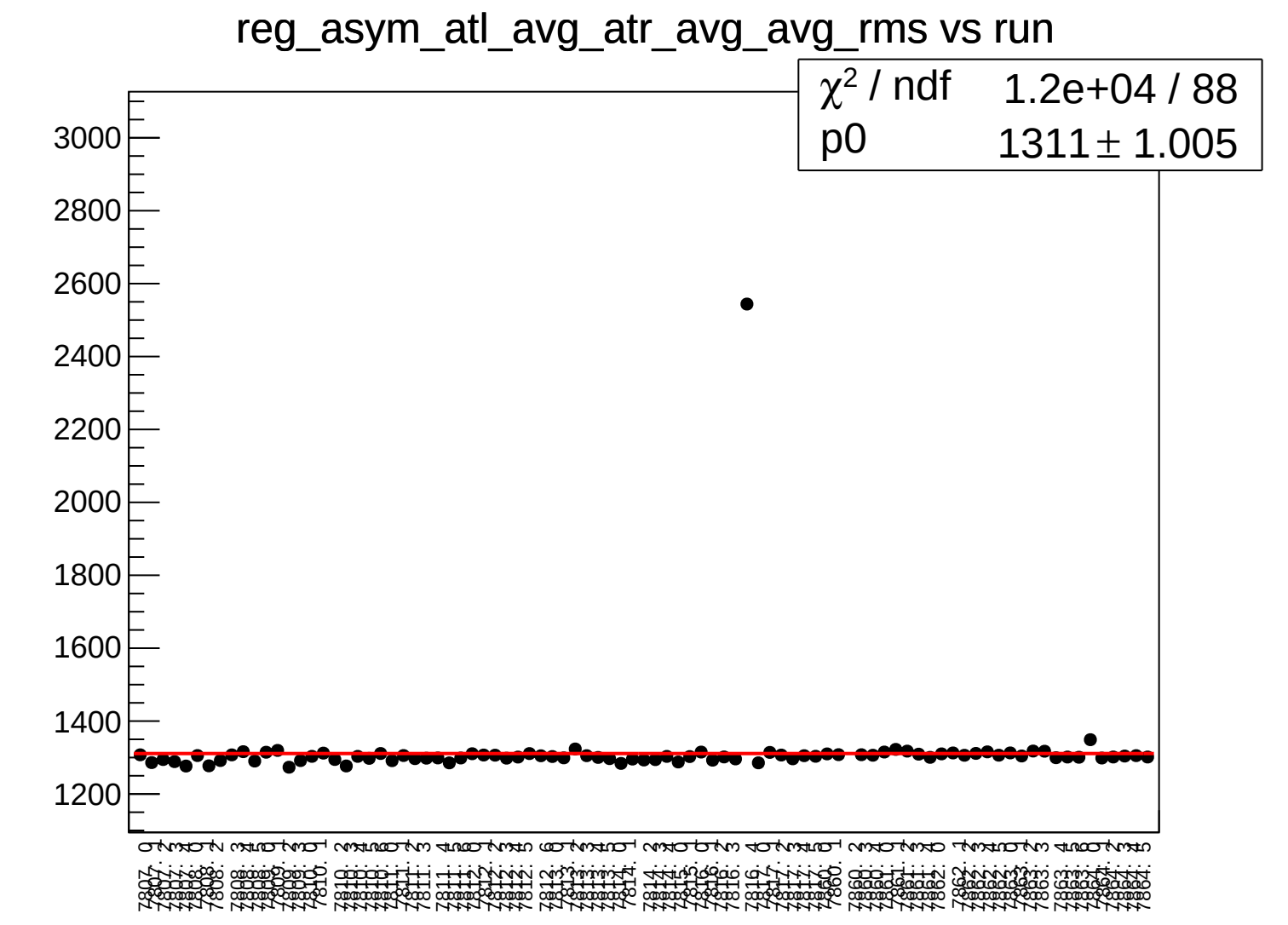

pull1D
Entries 89
Mean 0.01687
Std Dev 0.8939
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

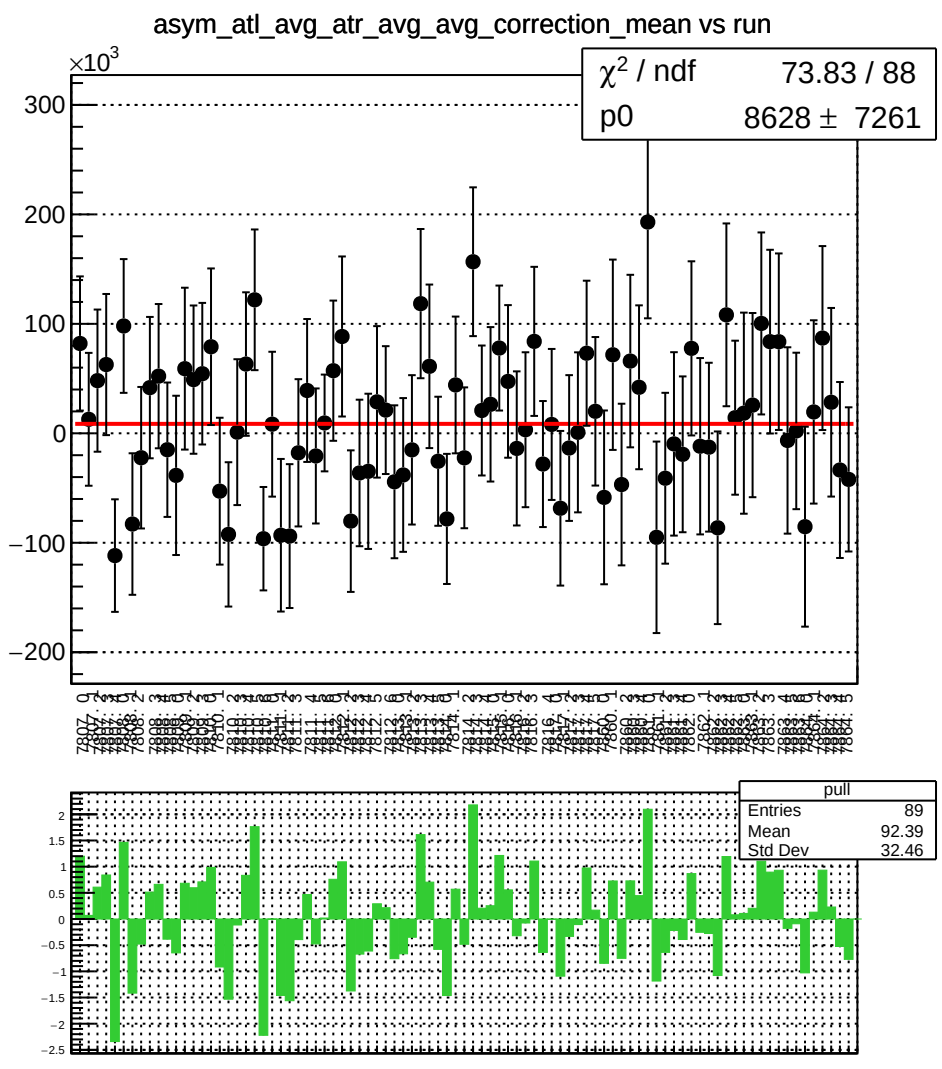
asym_atr1l2_dd_rms vs run

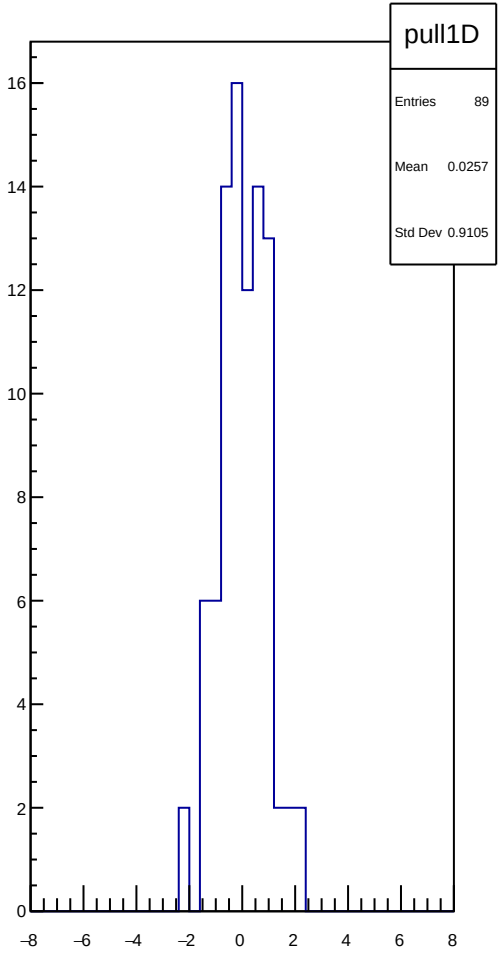


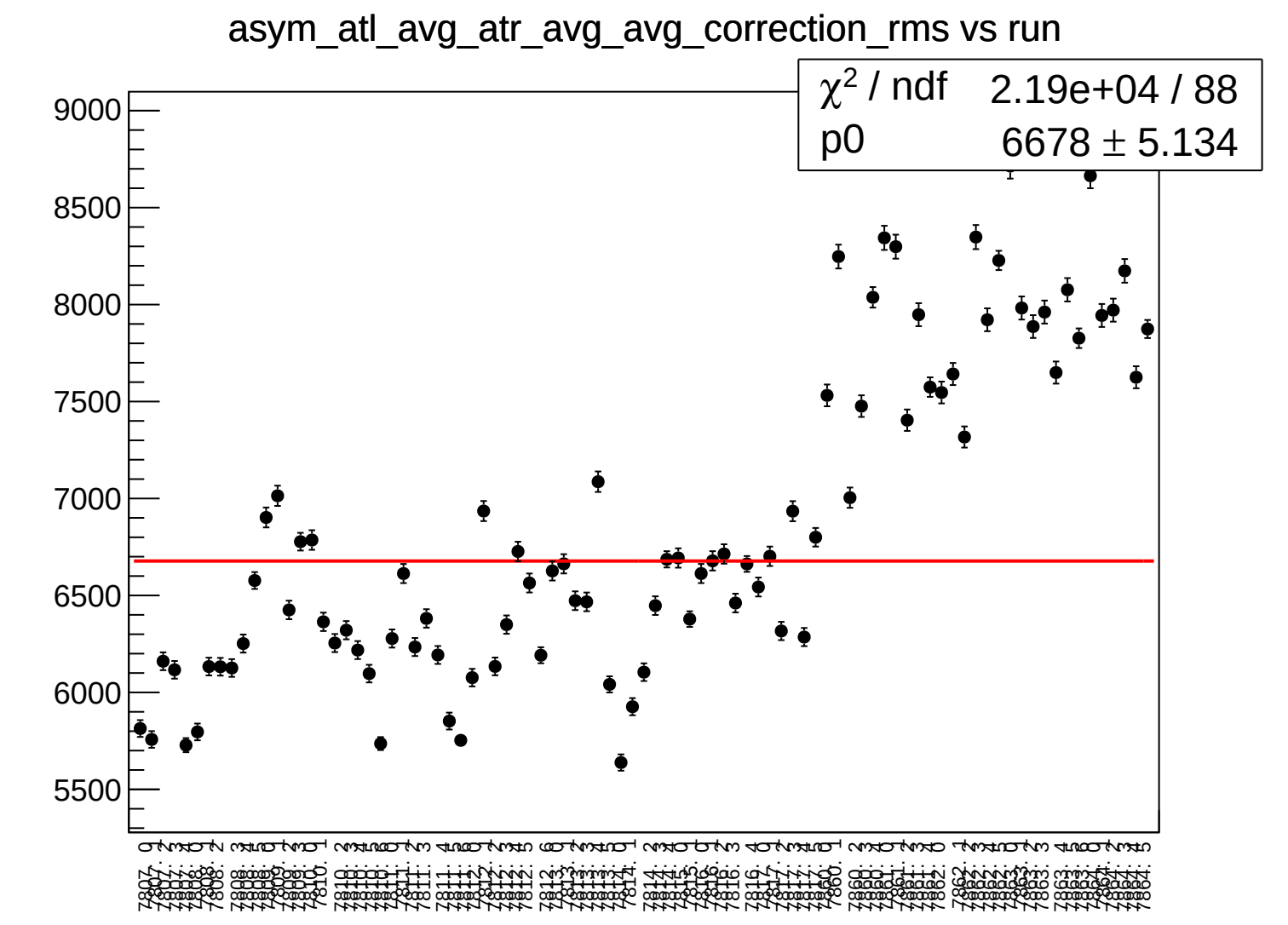

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 91.91 / 88
p0 −1412 ± 1421
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 37.91
Std Dev 60.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

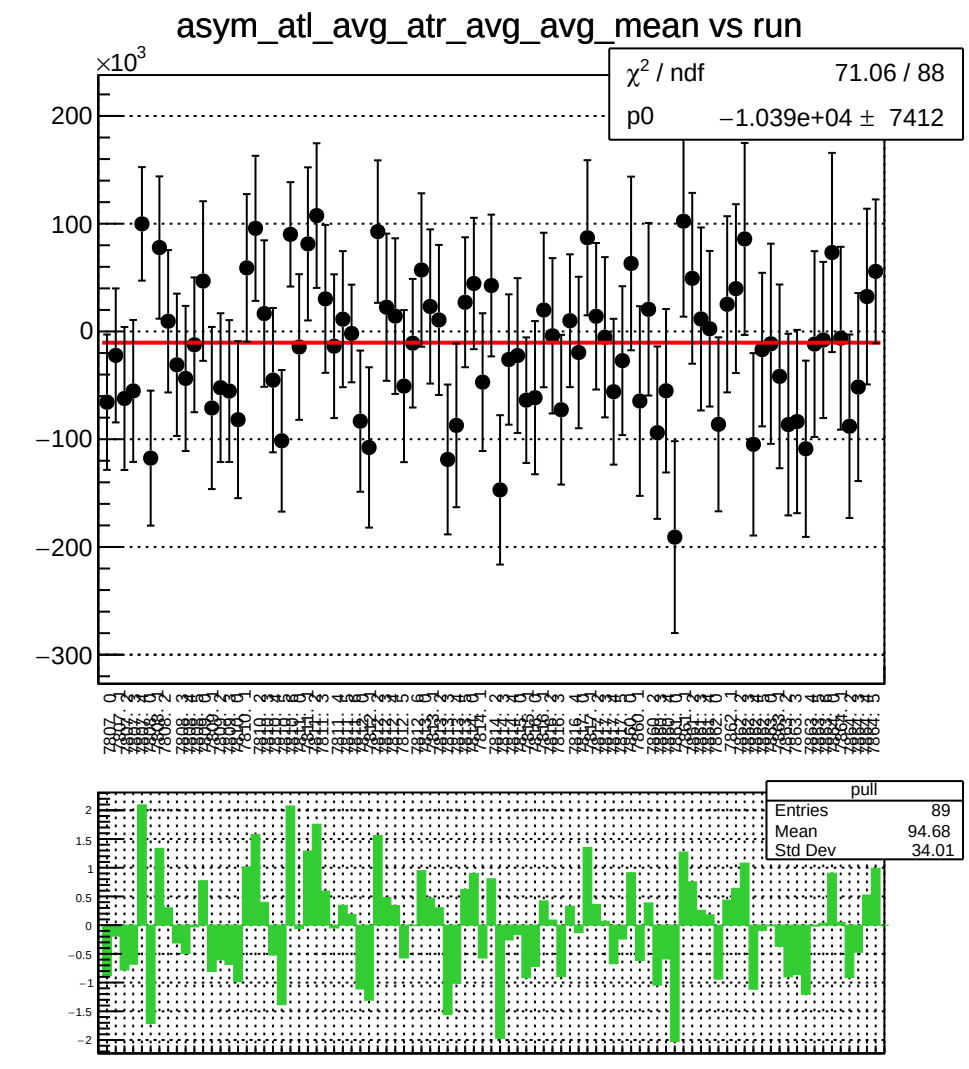

pull1D
Entries 89
Mean −0.008238
Std Dev 1.016
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

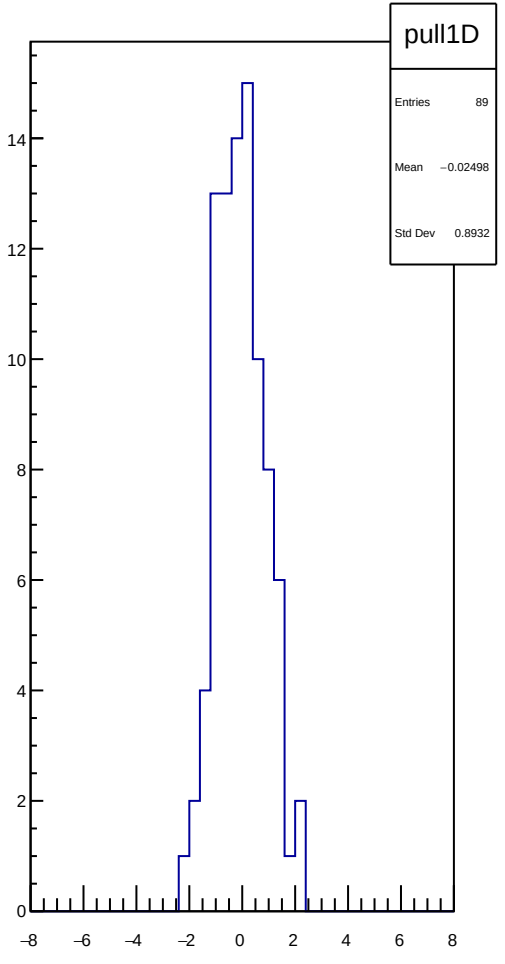

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.2e+04 / 88
p0 1311 ± 1.005
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

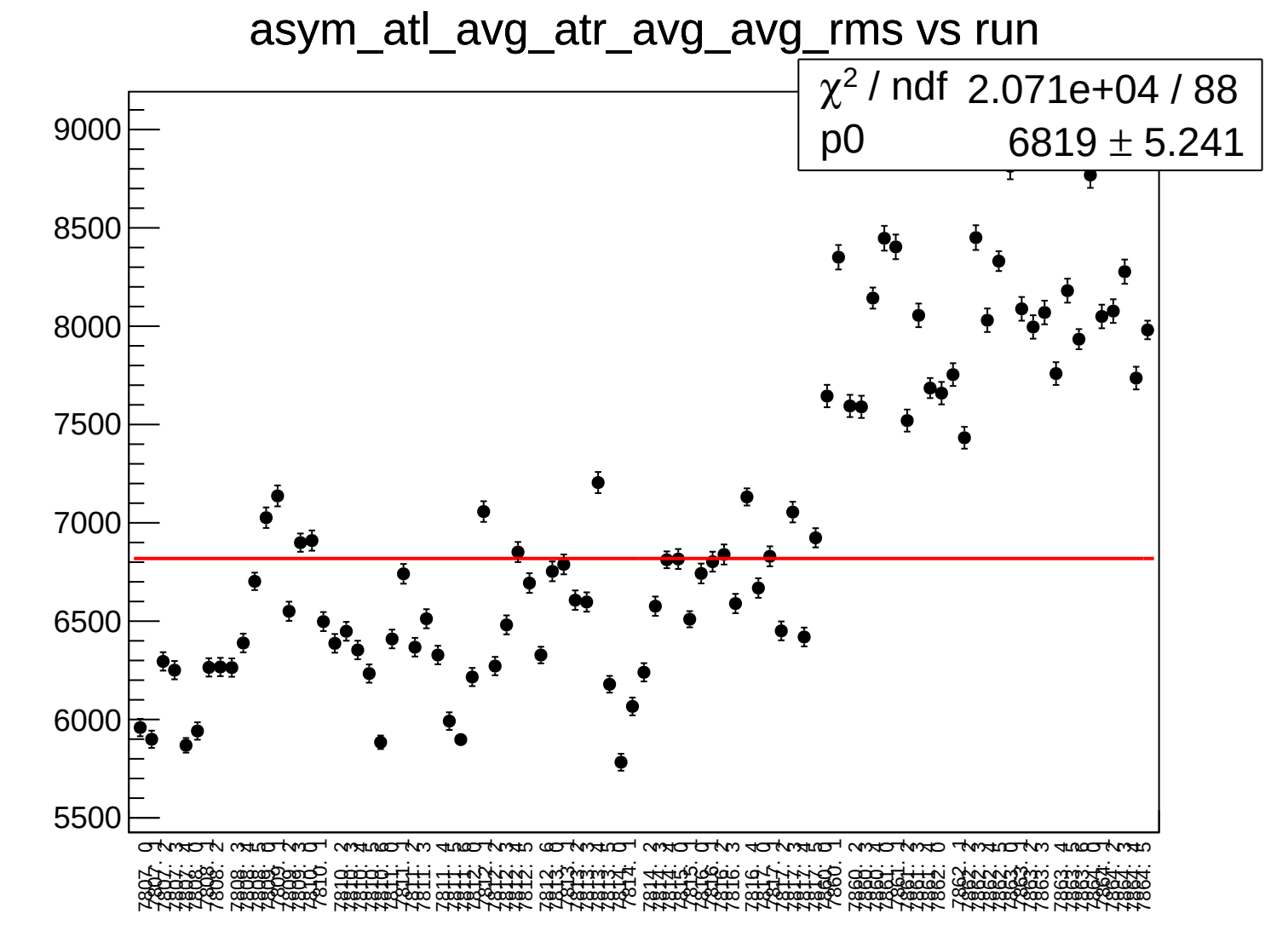

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 73.83 / 88
p0 8628 ± 7261
300
200
100
0
−100
−200
pull
Entries 89
Mean 92.39
Std Dev 32.46
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

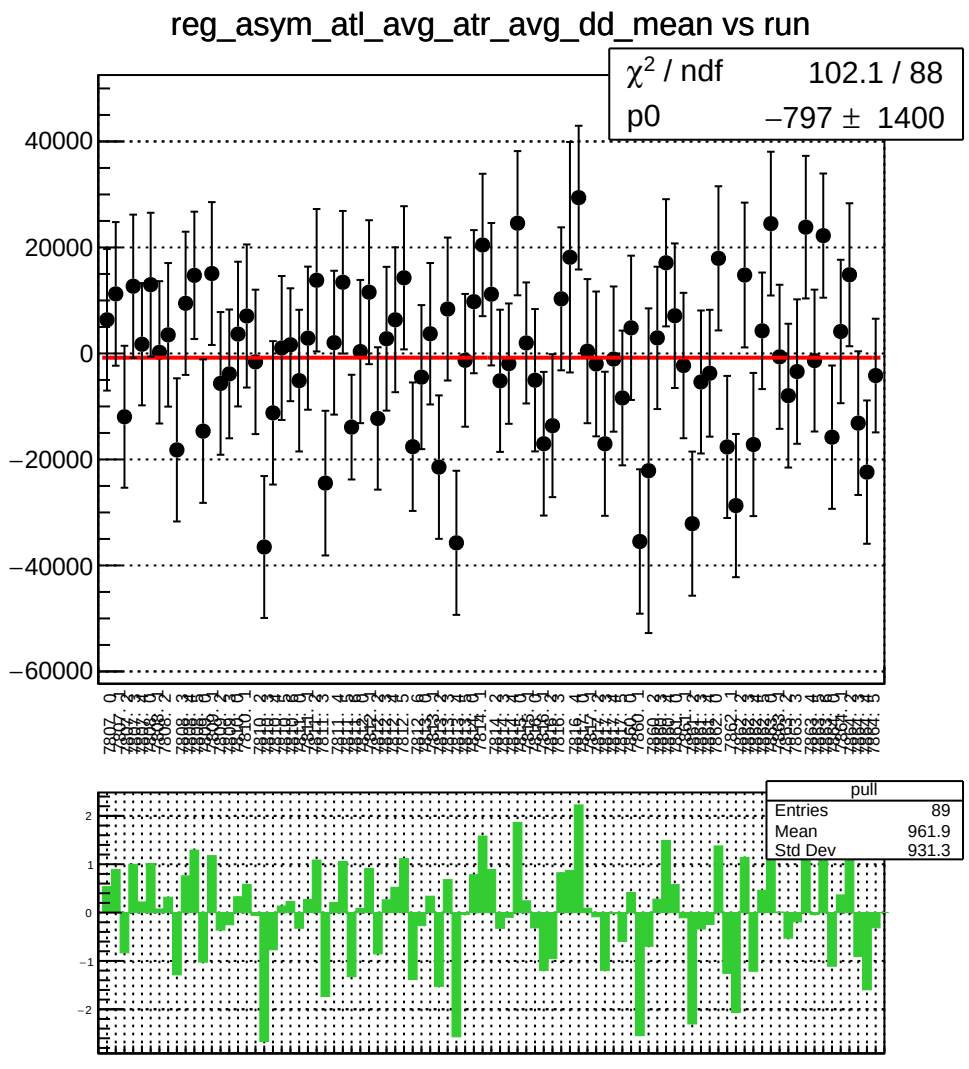

pull1D
Entries 89
Mean 0.0257
Std Dev 0.9105
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

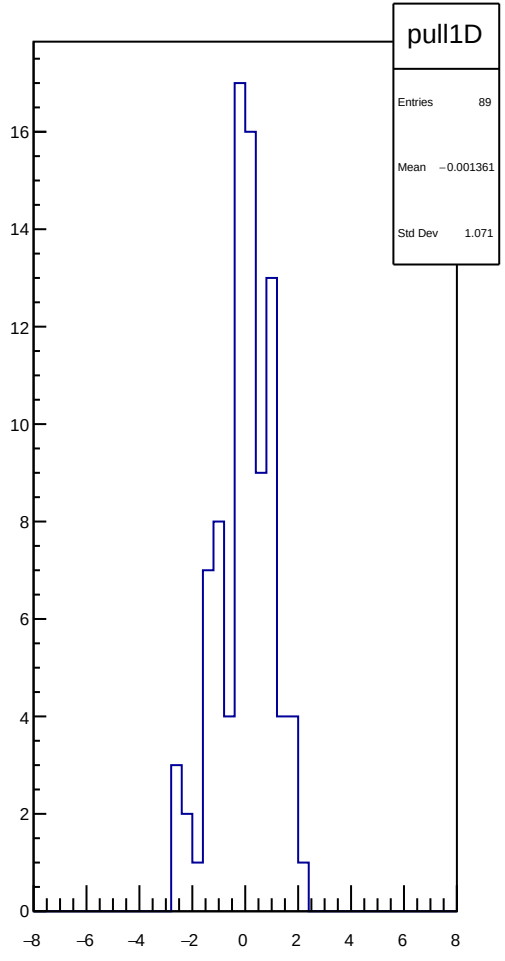

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 2.19e+04 / 88
p0 6678 ± 5.134
9000
8500
8000
7500
7000
6500
6000
5500

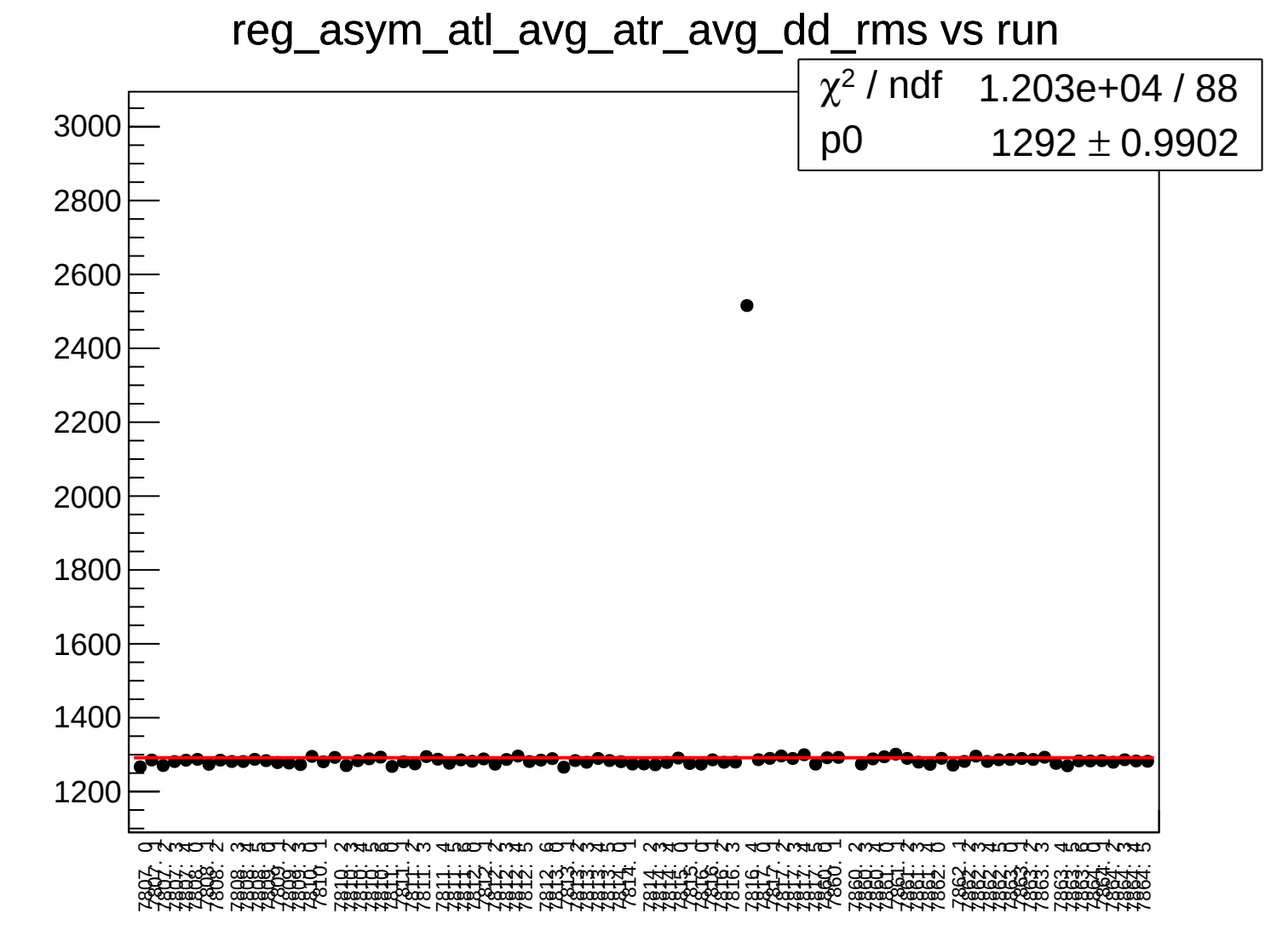

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 71.06 / 88
p0 −1.039e+04 ± 7412
pull
Entries 89
Mean 94.68
Std Dev 34.01

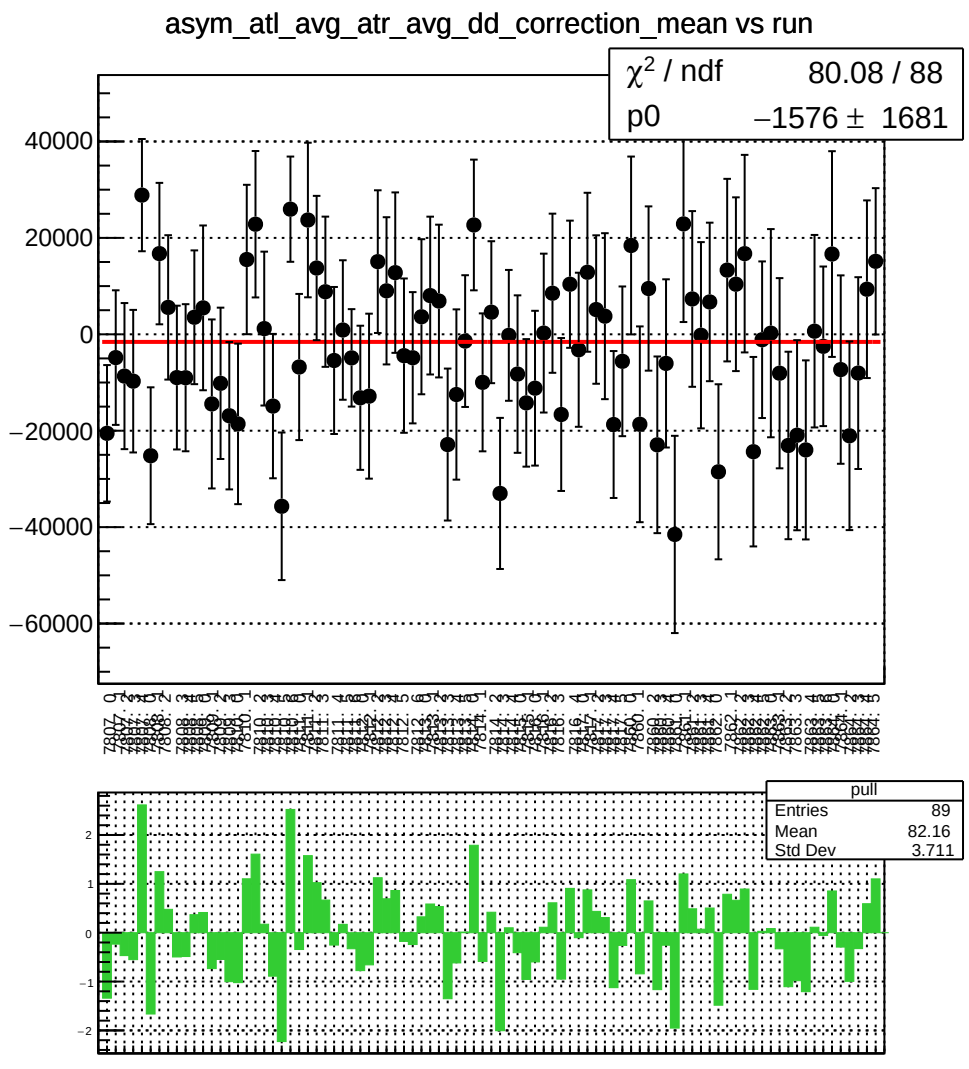

pull1D
Entries 89
Mean −0.02498
Std Dev 0.8932

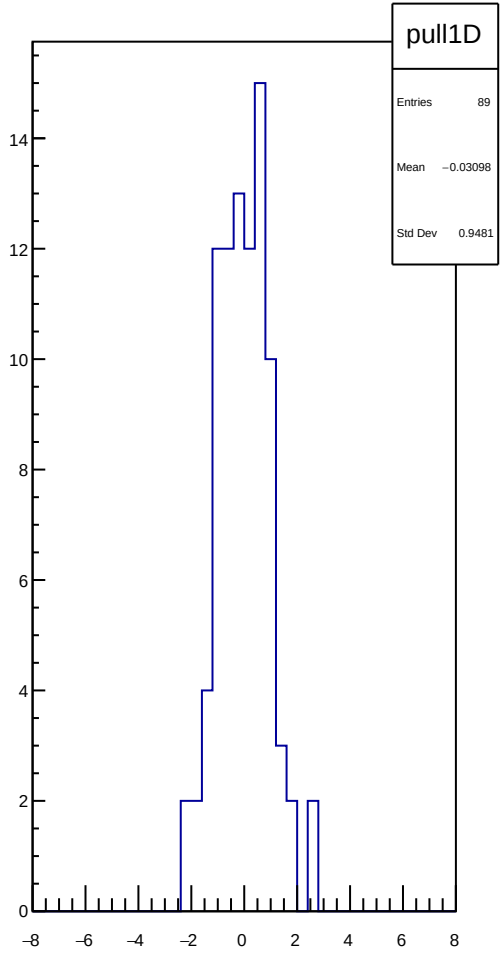

asym_atl_avg_atr_avg_avg_rms vs run
χ^2 / ndf 2.071e+04 / 88
p0 6819 ± 5.241
9000
8500
8000
7500
7000
6500
6000
5500

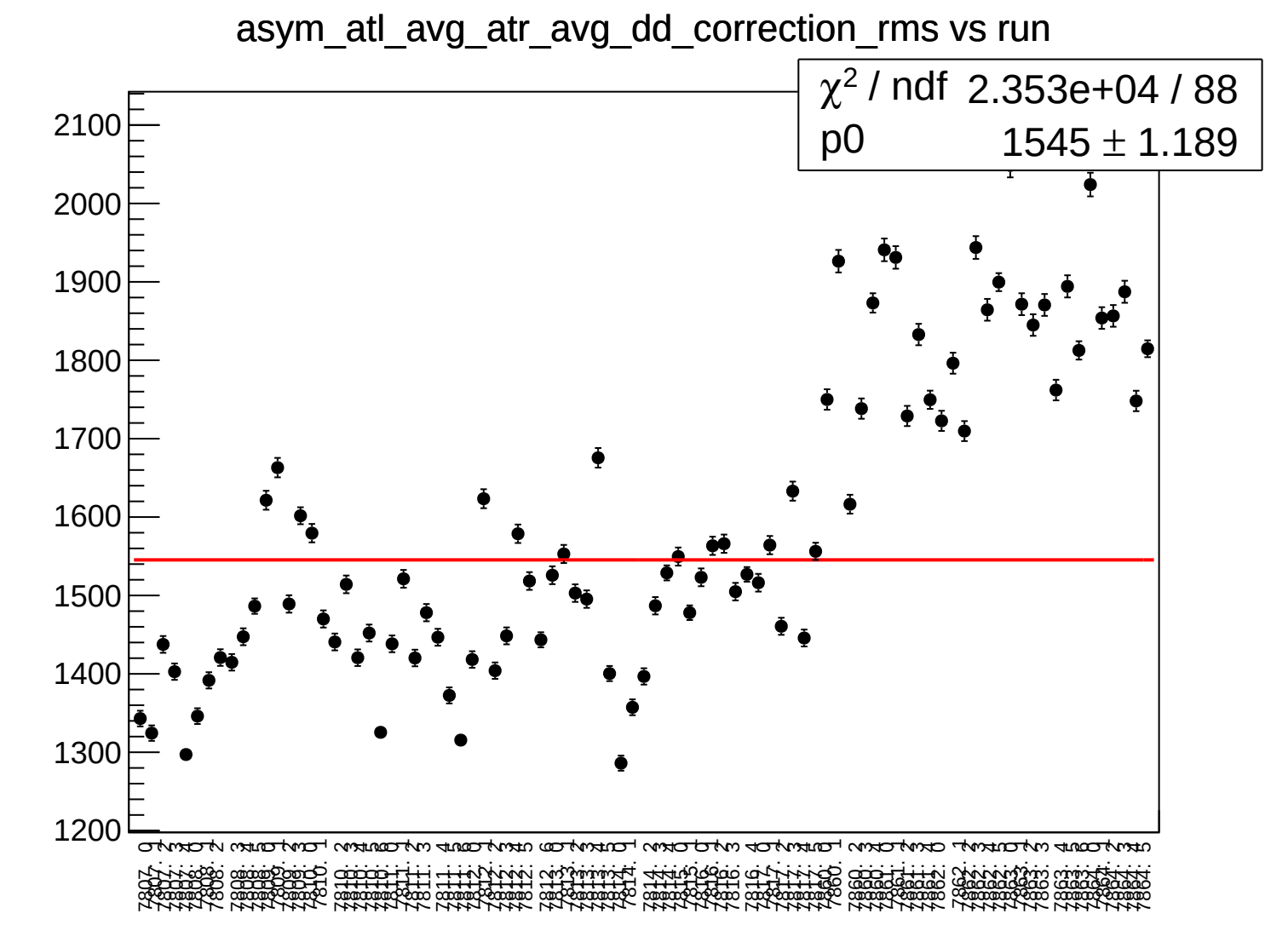

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 102.1 / 88
p0 −797 ± 1400
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 961.9
Std Dev 931.3
2
1
0
−1
−2

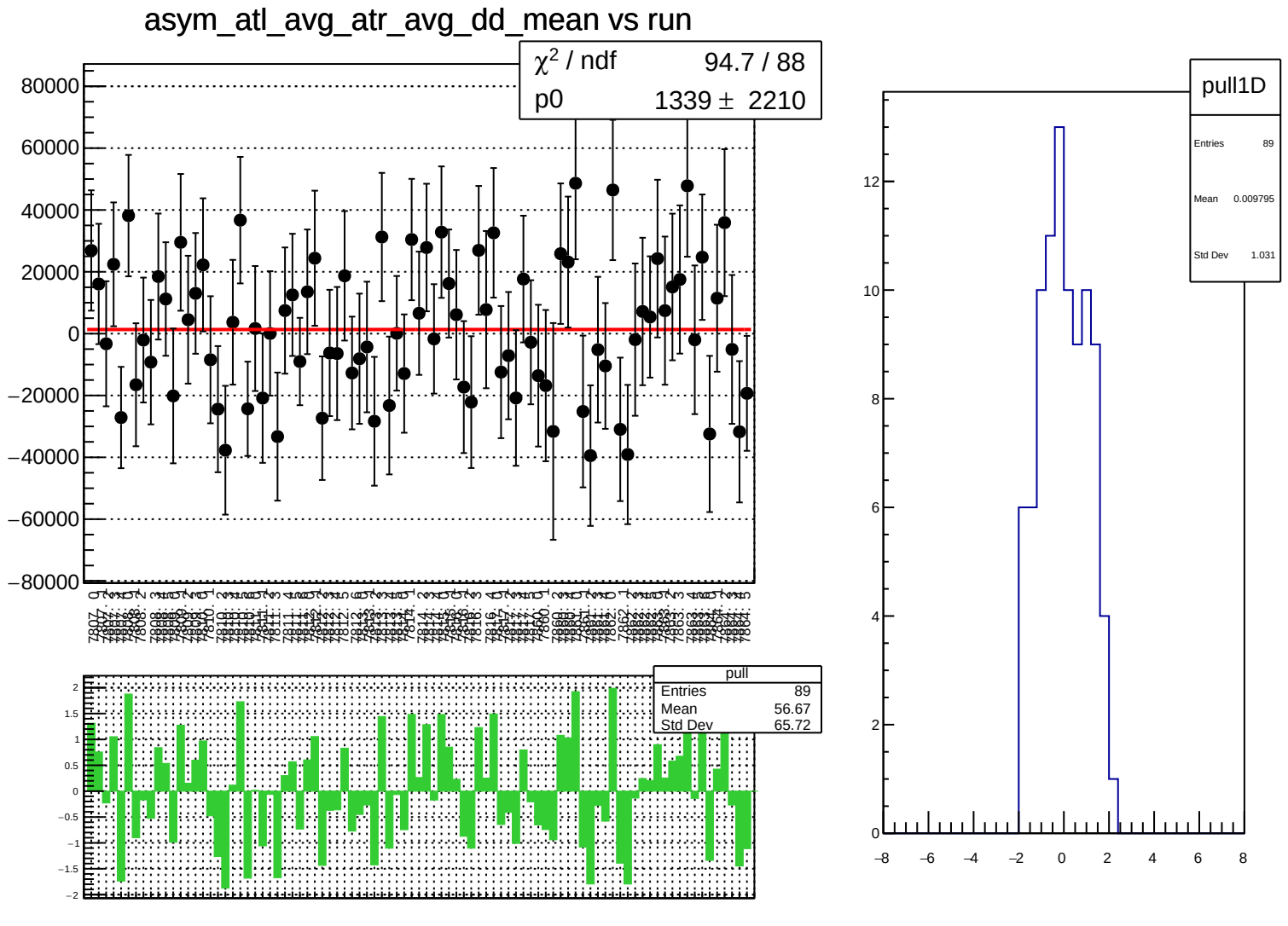

pull1D
Entries 89
Mean −0.001361
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

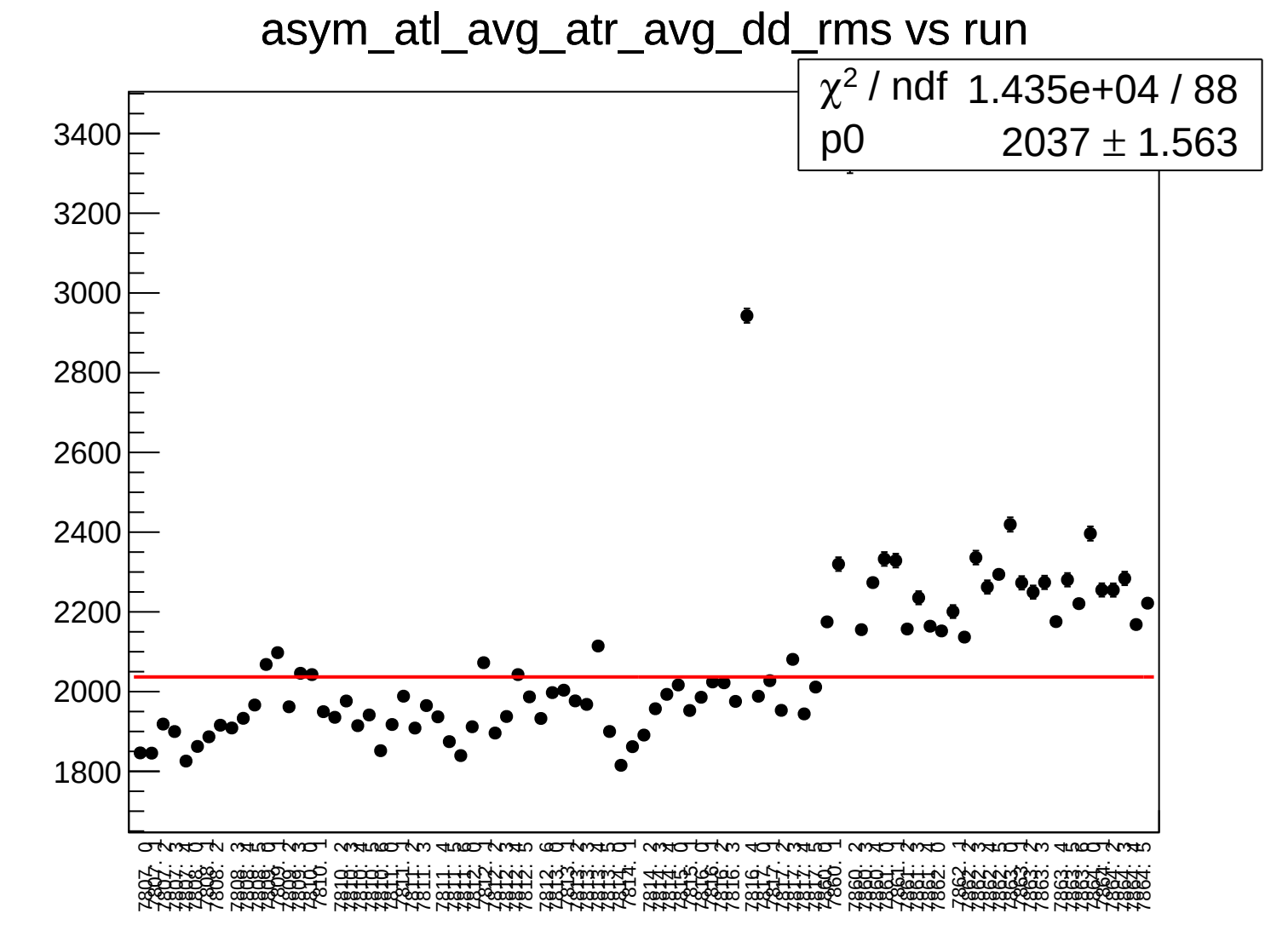

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ^2 / ndf 1.203e+04 / 88
p0 1292 ± 0.9902
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

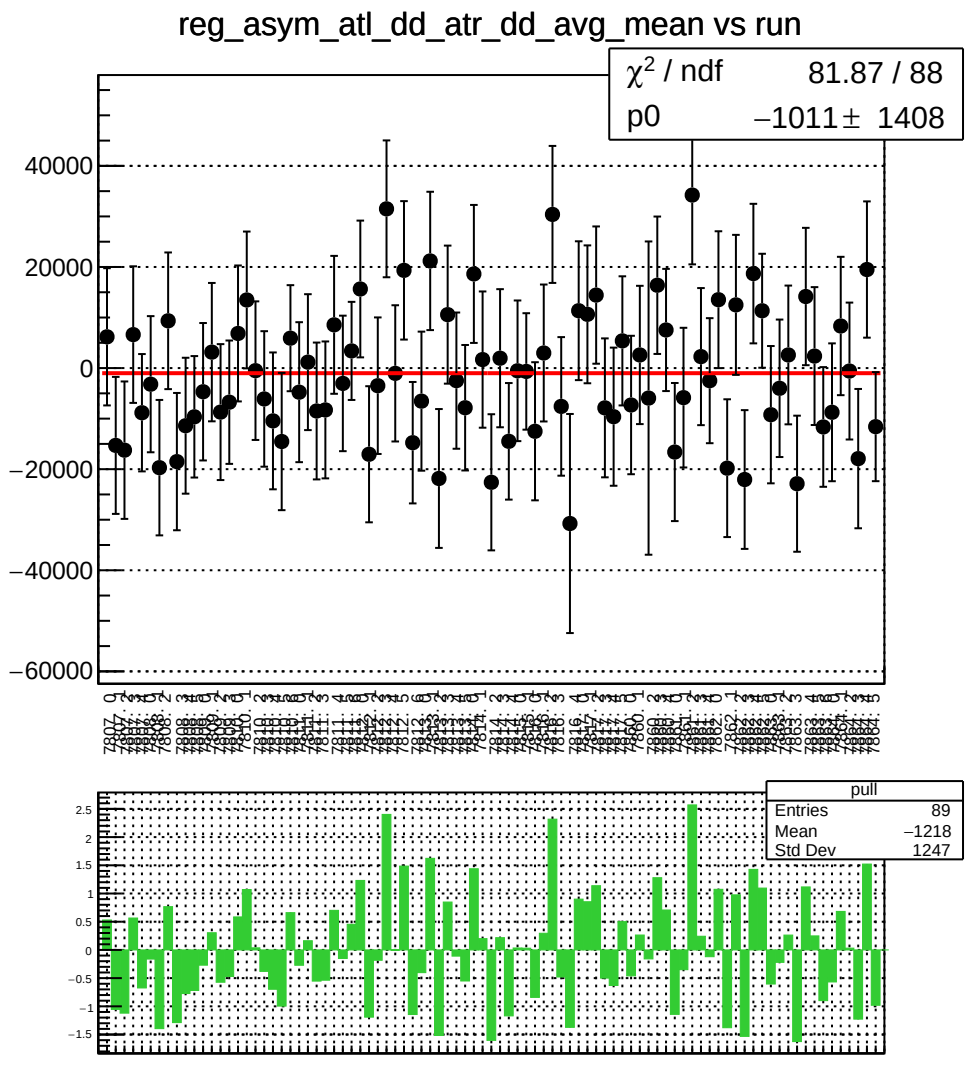

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 80.08 / 88
p0 −1576 ± 1681
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 82.16
Std Dev 3.711
2
1
0
−1
−2

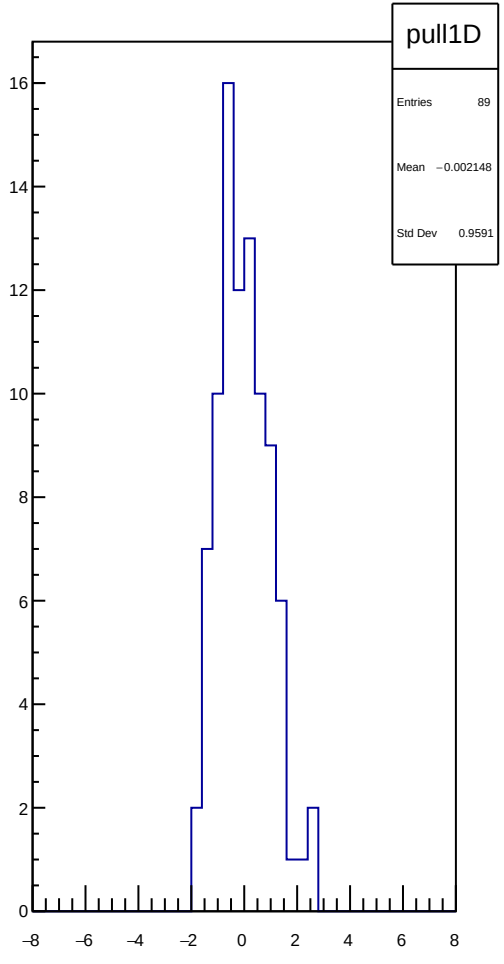

pull1D
Entries 89
Mean −0.03098
Std Dev 0.9481
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

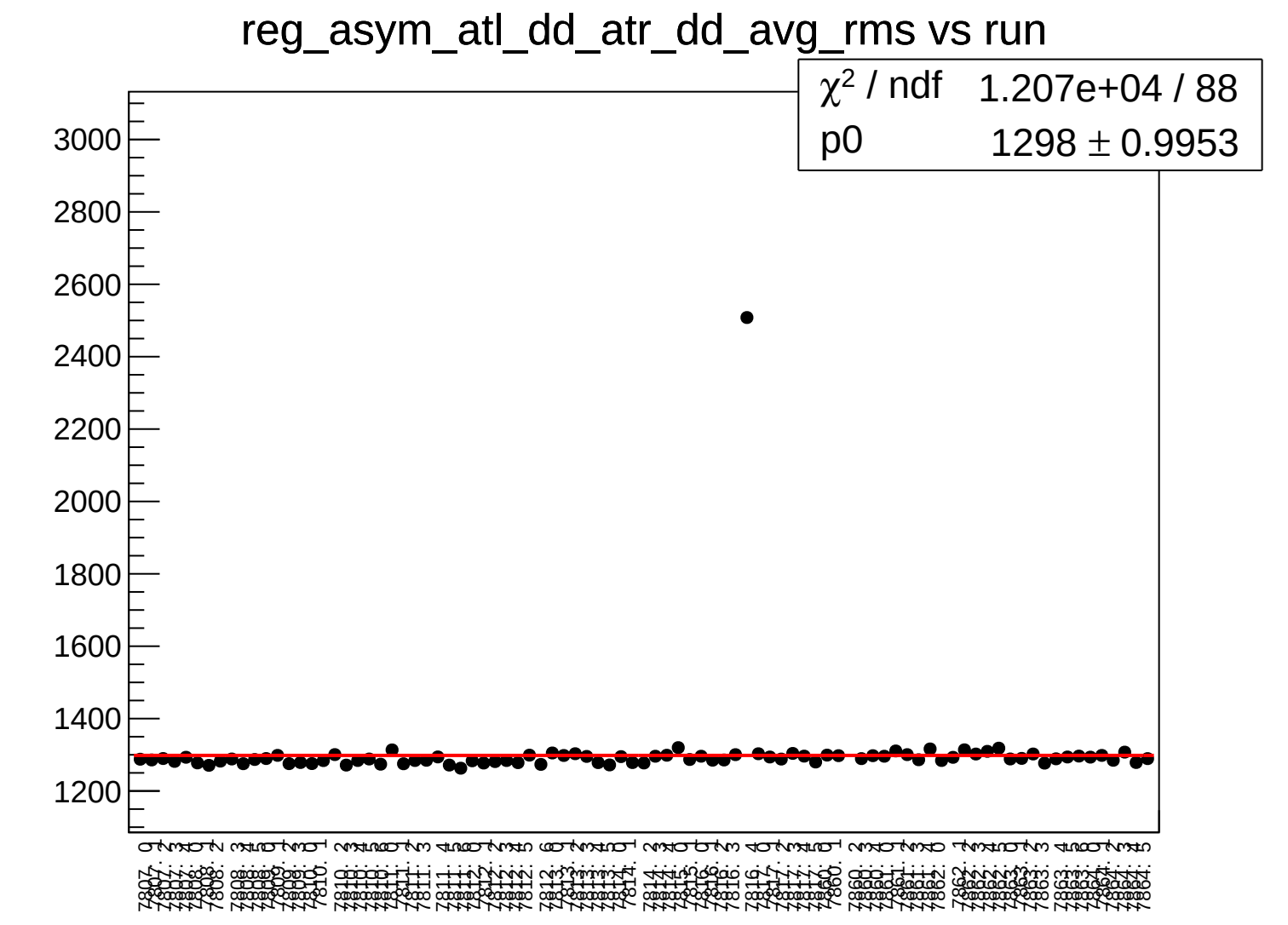

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 2.353e+04 / 88
p0 1545 ± 1.189
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

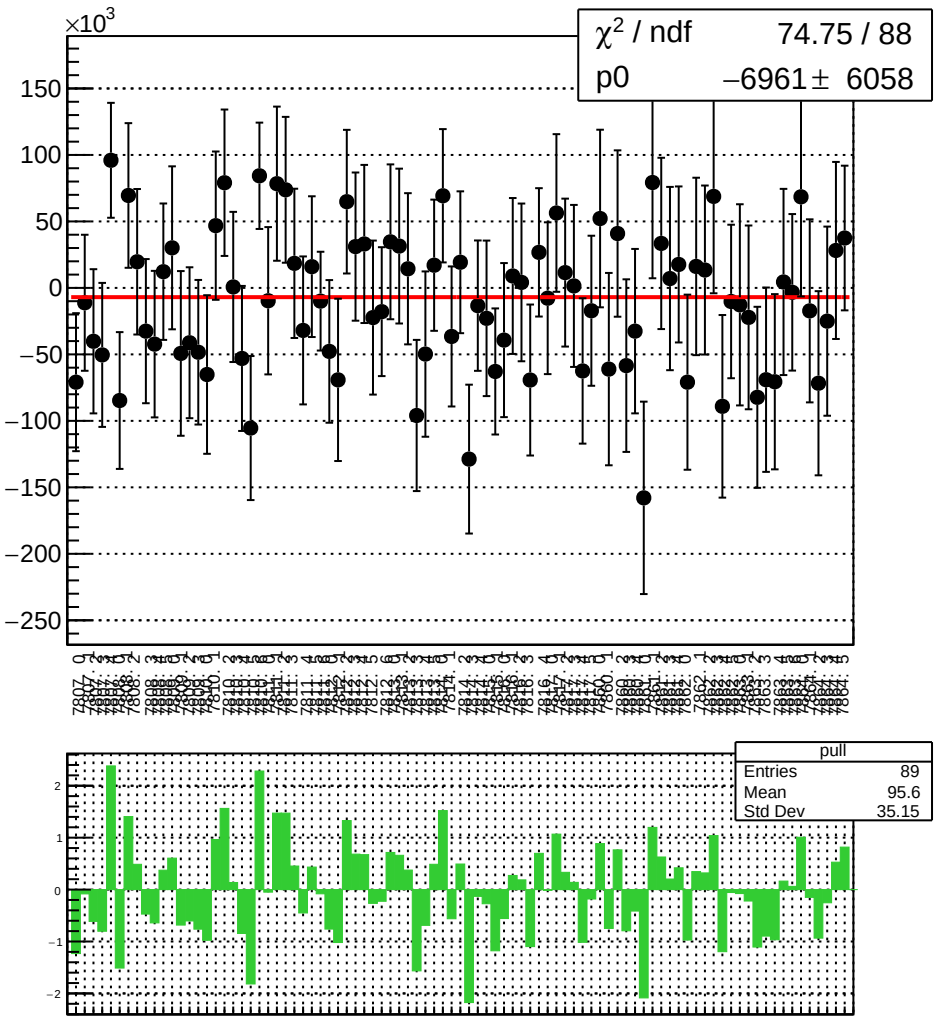

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 94.7 / 88
p0 1339 ± 2210
pull
Entries 89
Mean 56.67
Std Dev 65.72
pull1D
Entries 89
Mean 0.009795
Std Dev 1.031

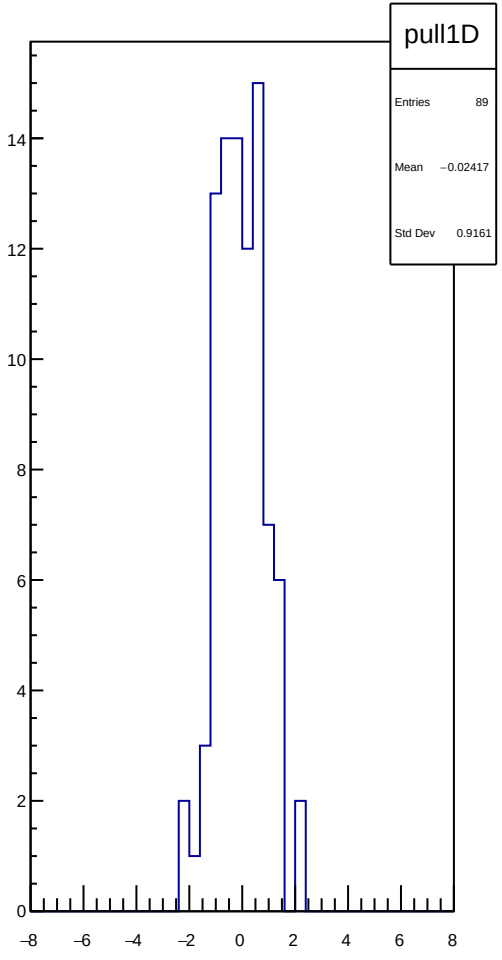

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.435e+04 / 88
p0 2037 ± 1.563
3400
3200
3000
2800
2600
2400
2200
2000
1800

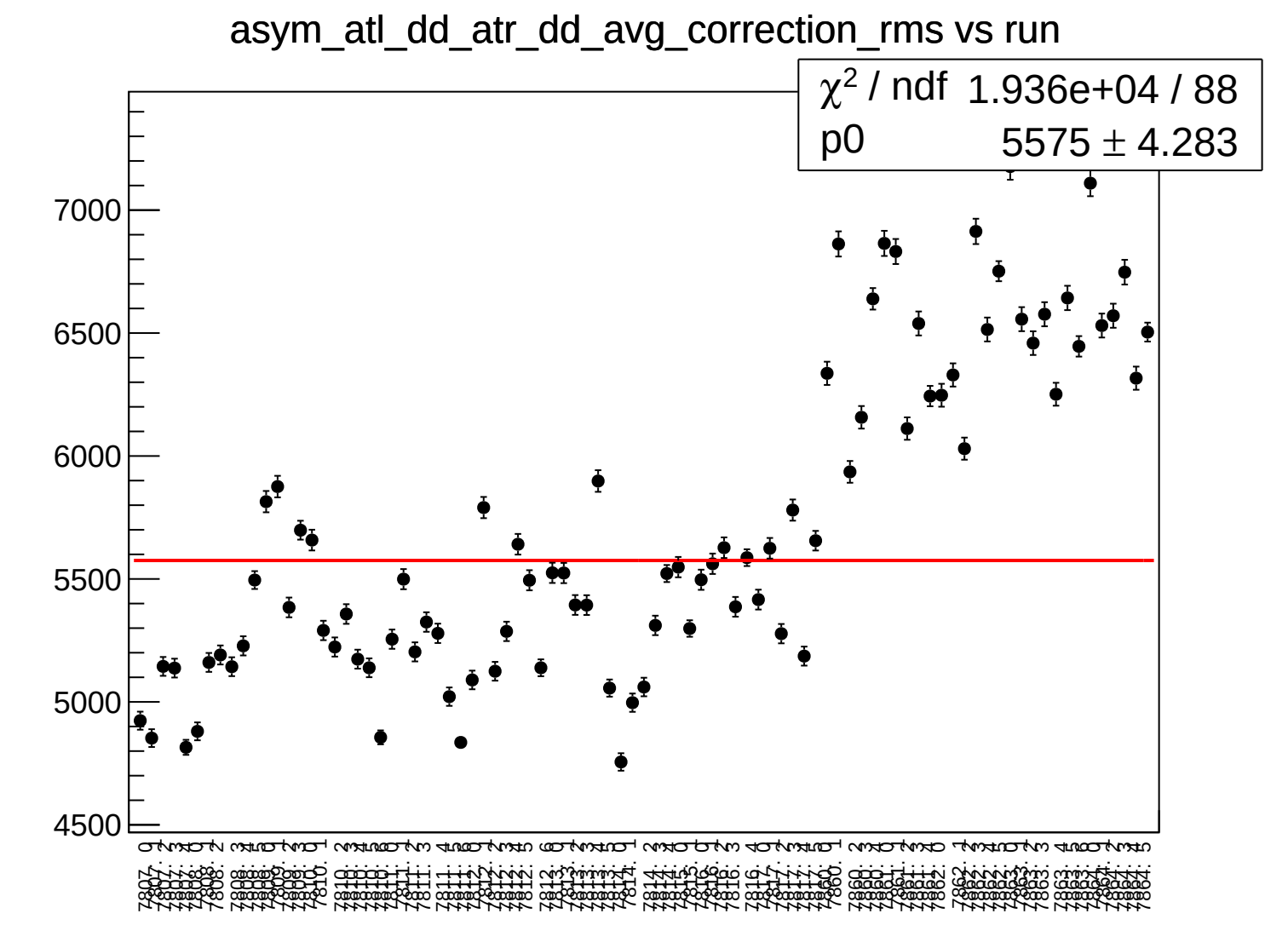

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 81.87 / 88
p0 −1011 ± 1408
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1218
Std Dev 1247
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

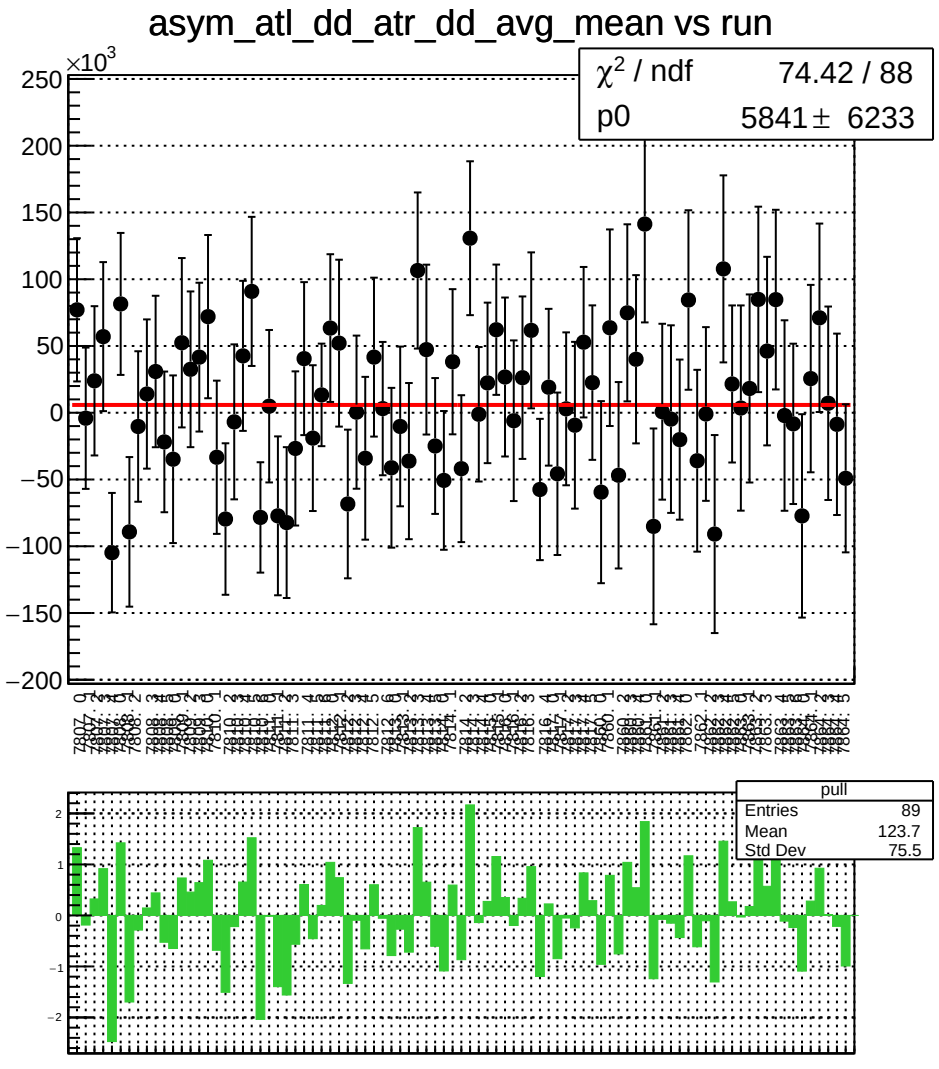

pull1D
Entries 89
Mean −0.002148
Std Dev 0.9591
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

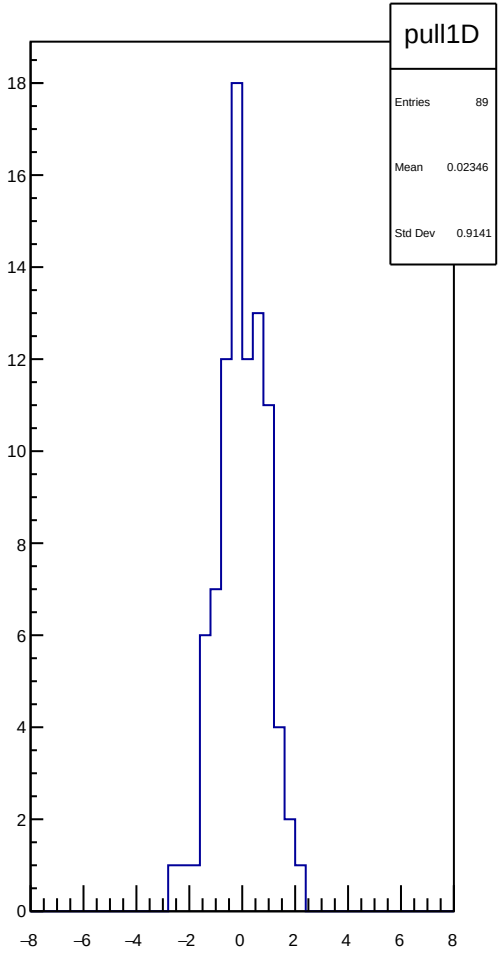

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 1.207e+04 / 88
p0 1298 ± 0.9953
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

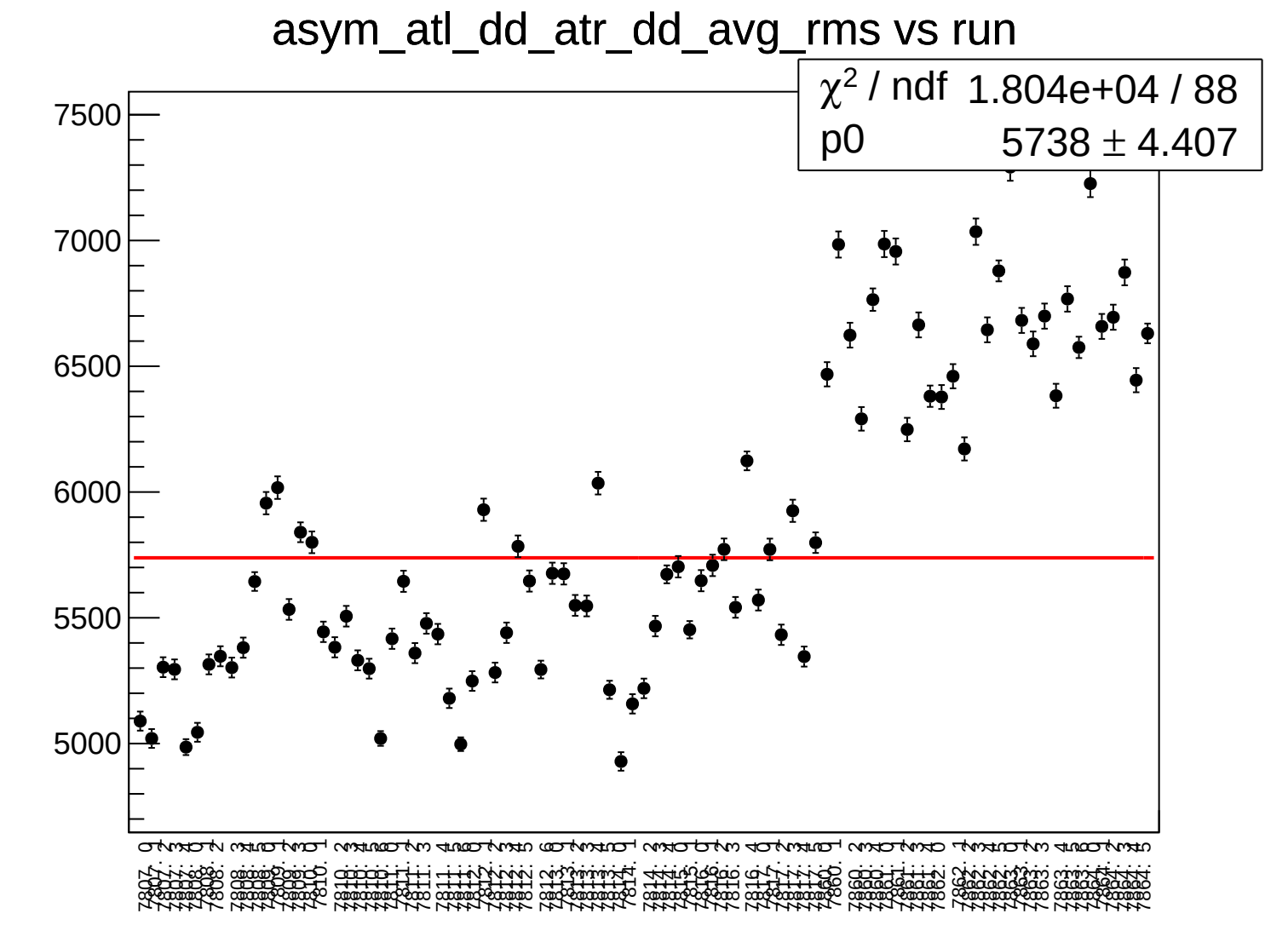

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 74.75 / 88
p0 −6961 ± 6058
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean 95.6
Std Dev 35.15
2
1
0
−1
−2

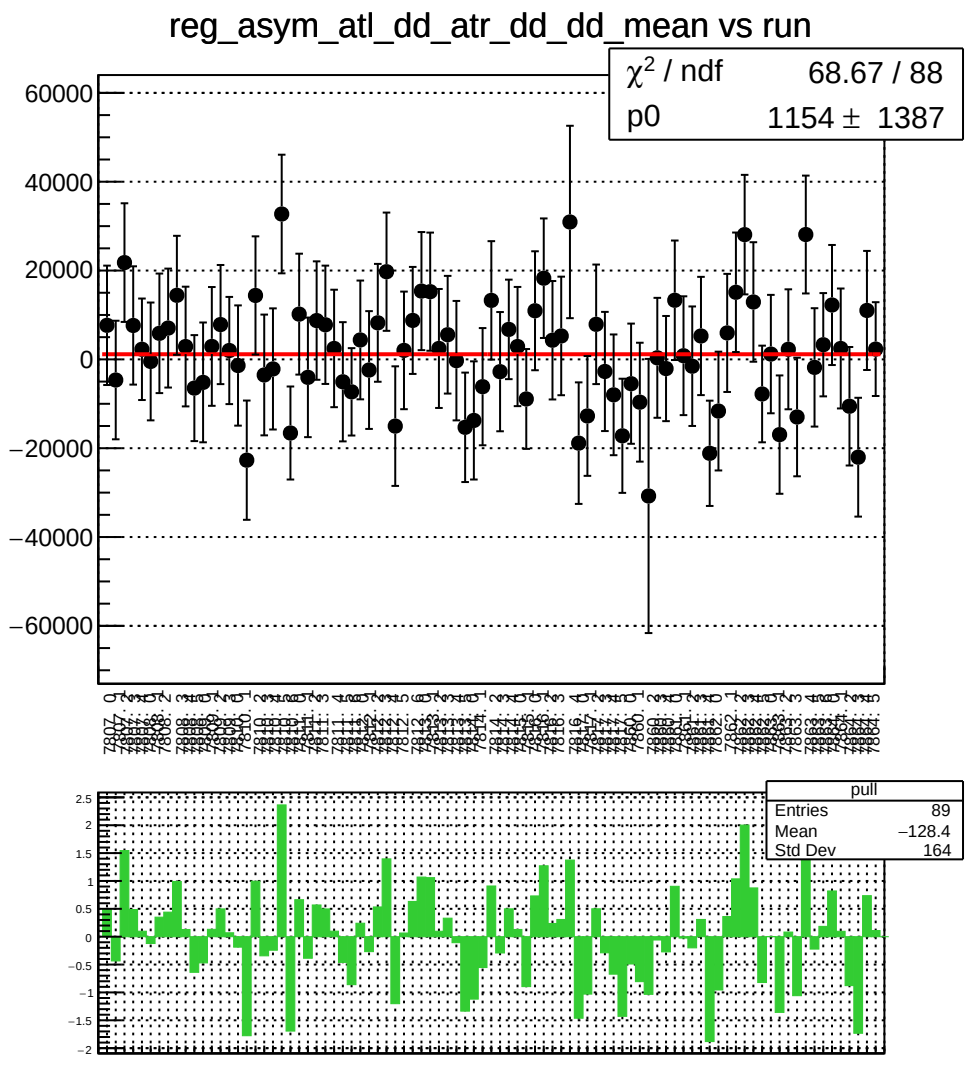

pull1D
Entries 89
Mean −0.02417
Std Dev 0.9161
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

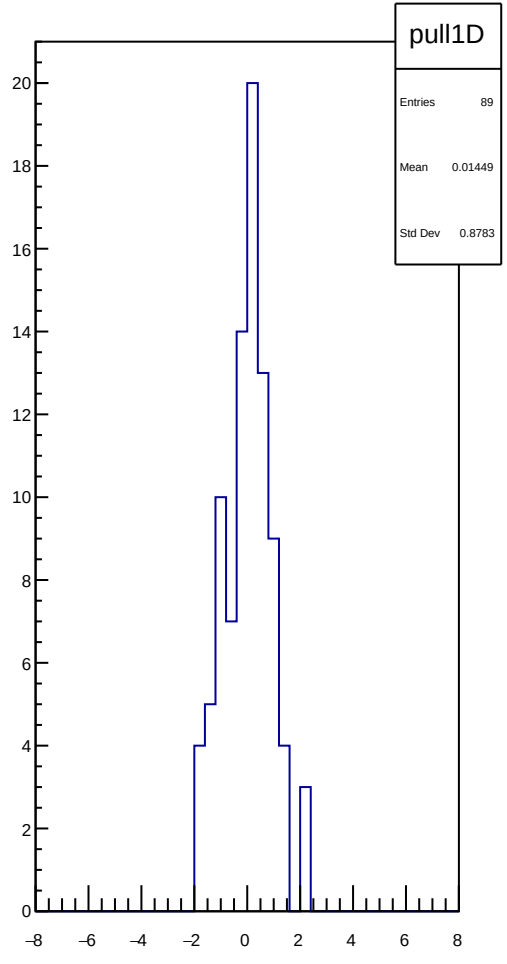

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 1.936e+04 / 88
p0 5575 ± 4.283
7000
6500
6000
5500
5000
4500

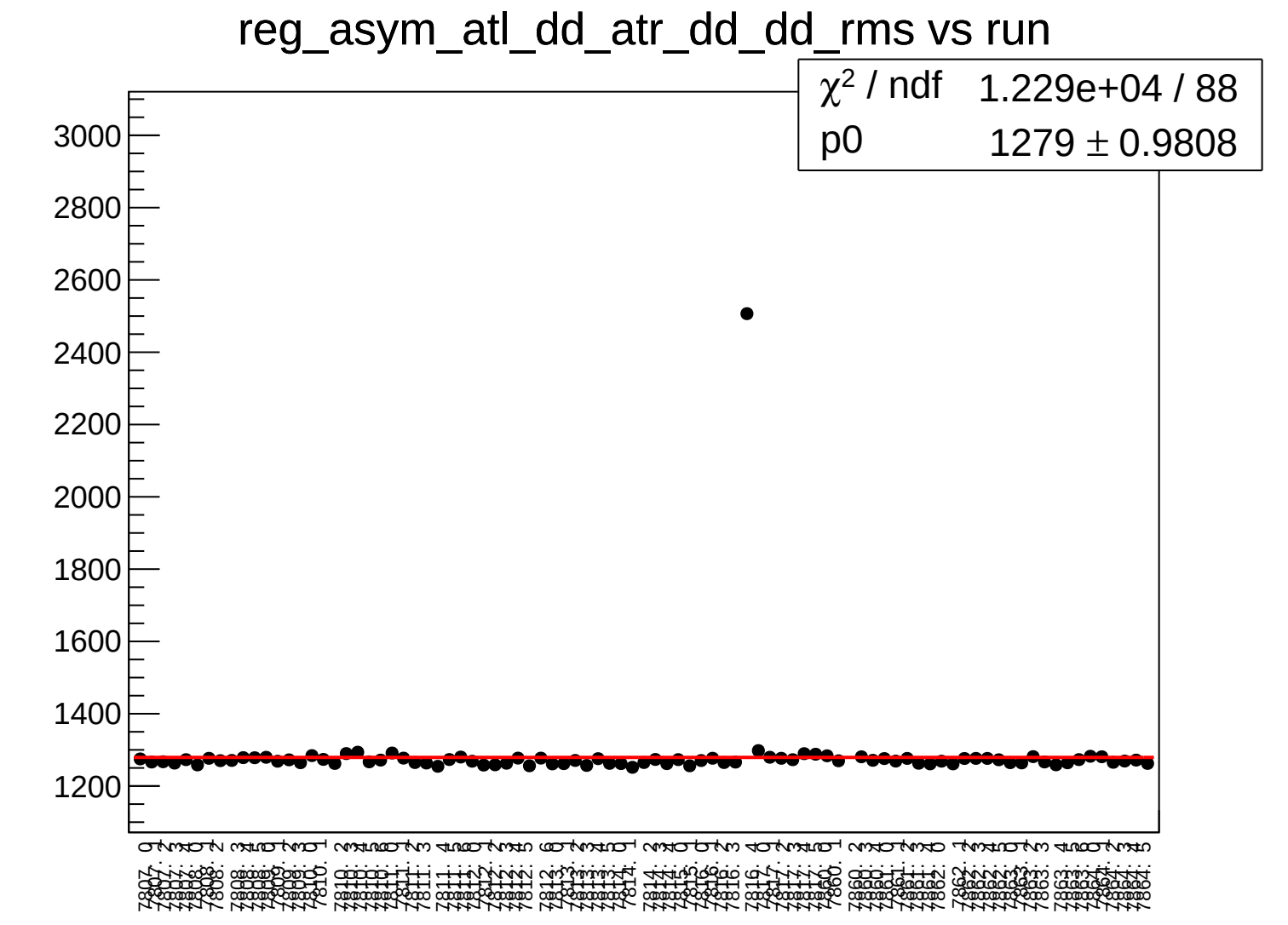

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 74.42 / 88
p0 5841 ± 6233
×10³
pull
Entries 89
Mean 123.7
Std Dev 75.5

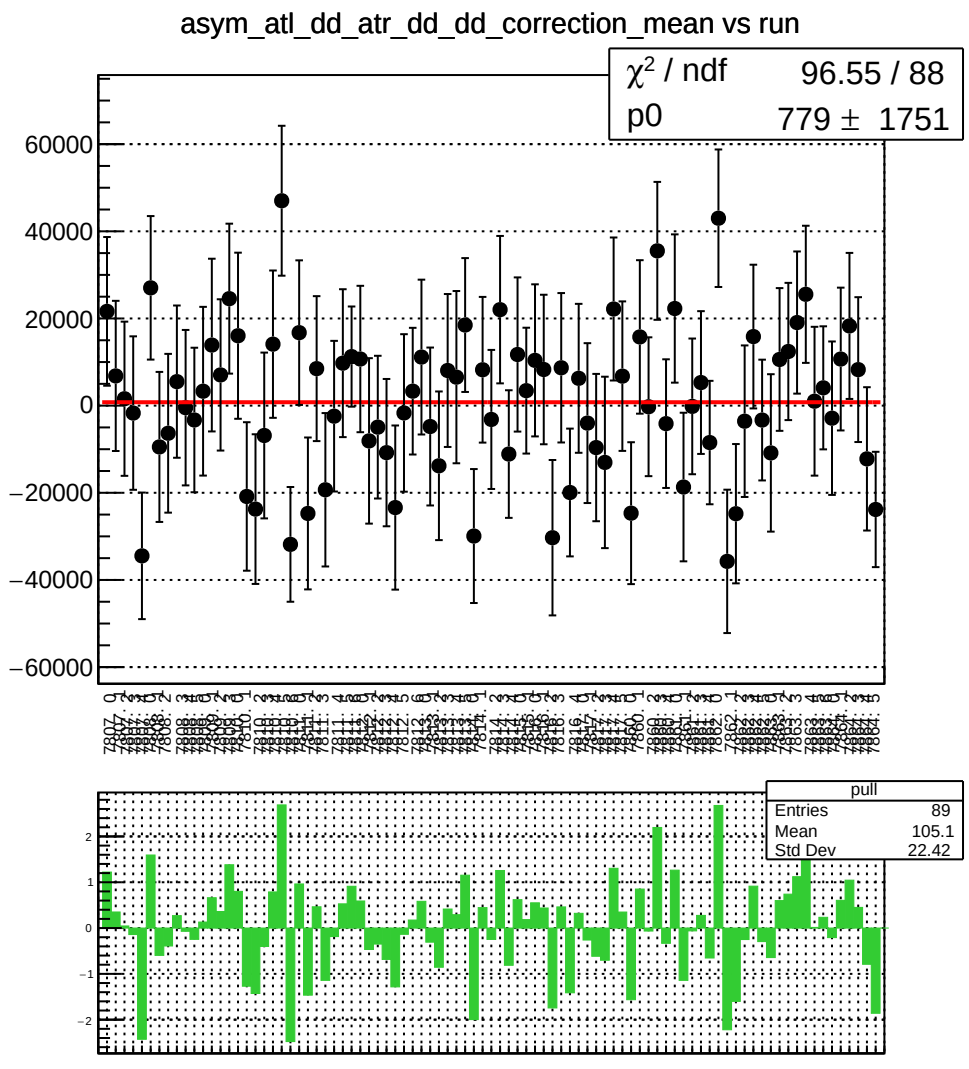

pull1D
Entries 89
Mean 0.02346
Std Dev 0.9141

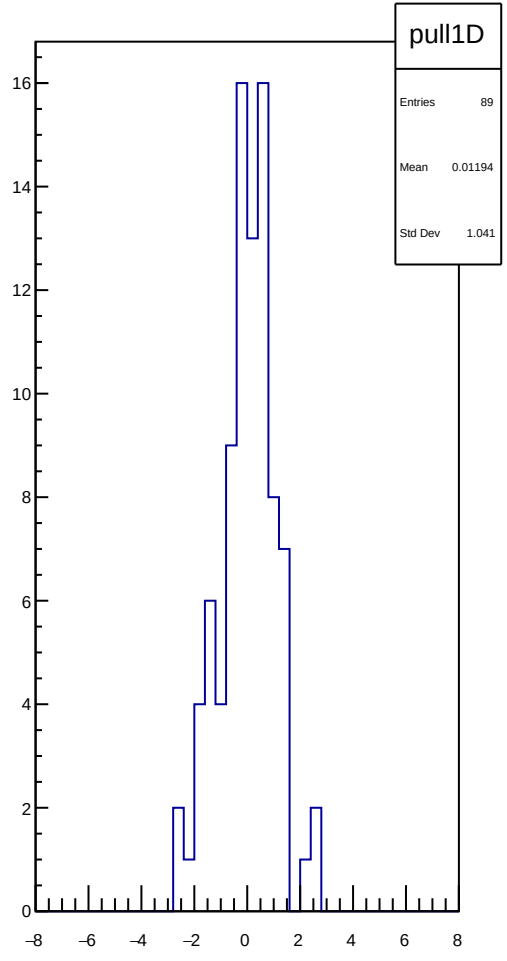

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.804e+04 / 88
p0 5738 ± 4.407
7500
7000
6500
6000
5500
5000

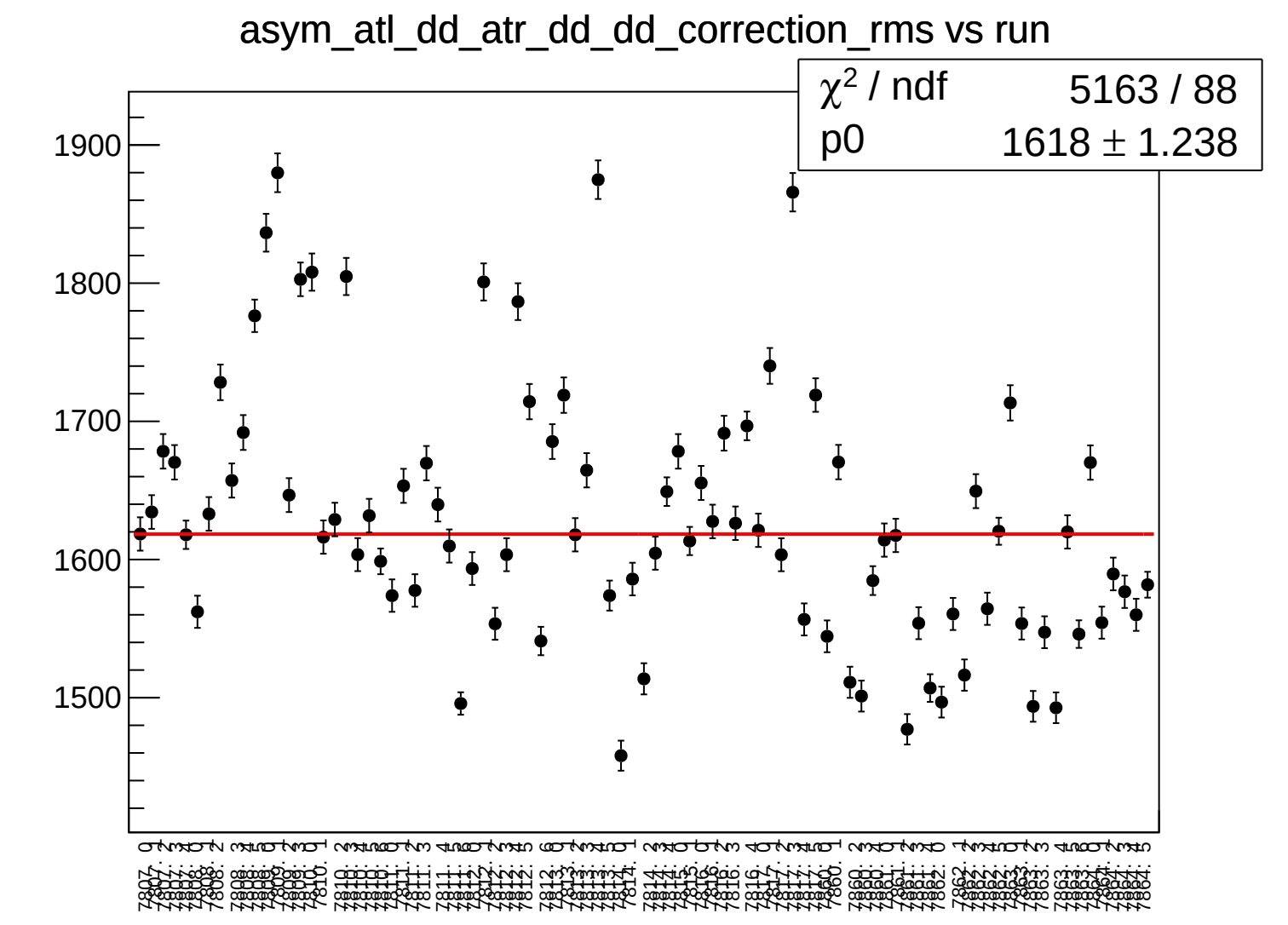

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 68.67 / 88
p0 1154 ± 1387
pull
Entries 89
Mean −128.4
Std Dev 164

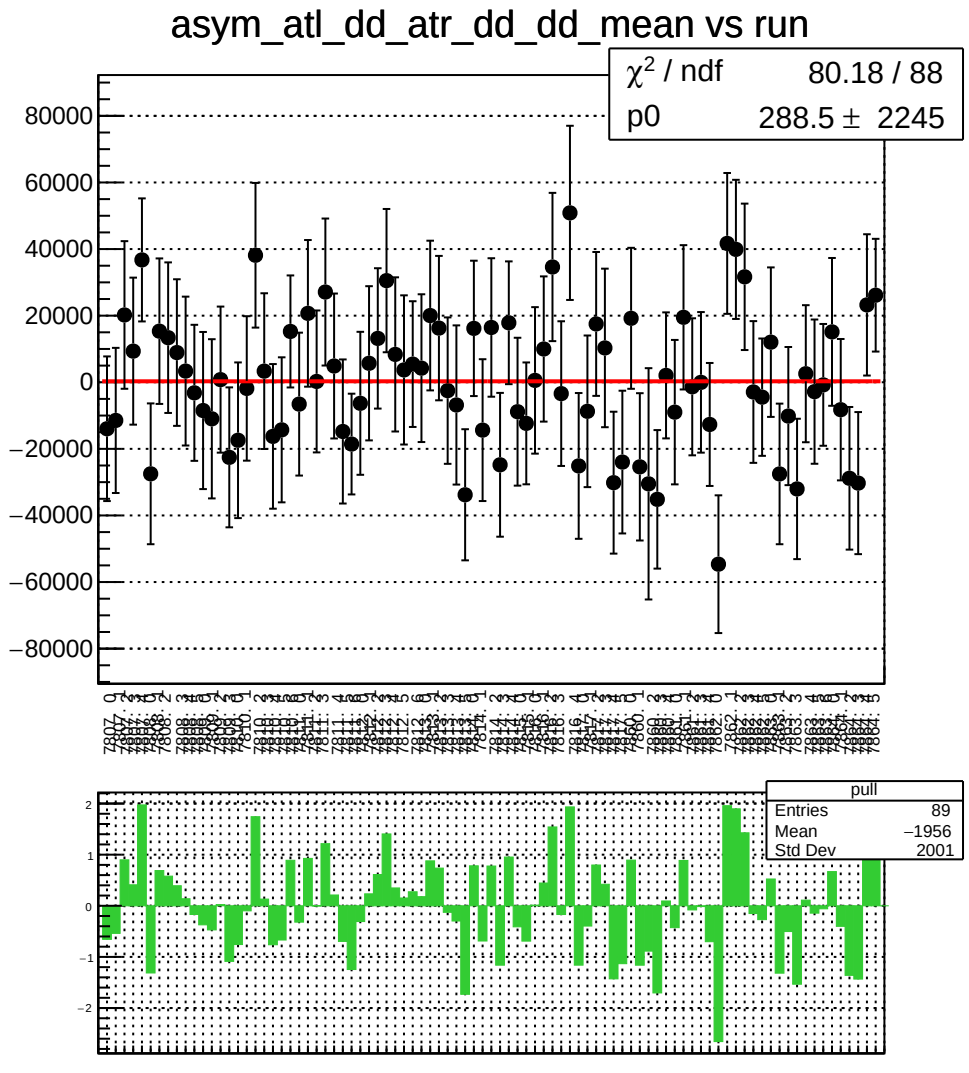

pull1D
Entries 89
Mean 0.01449
Std Dev 0.8783

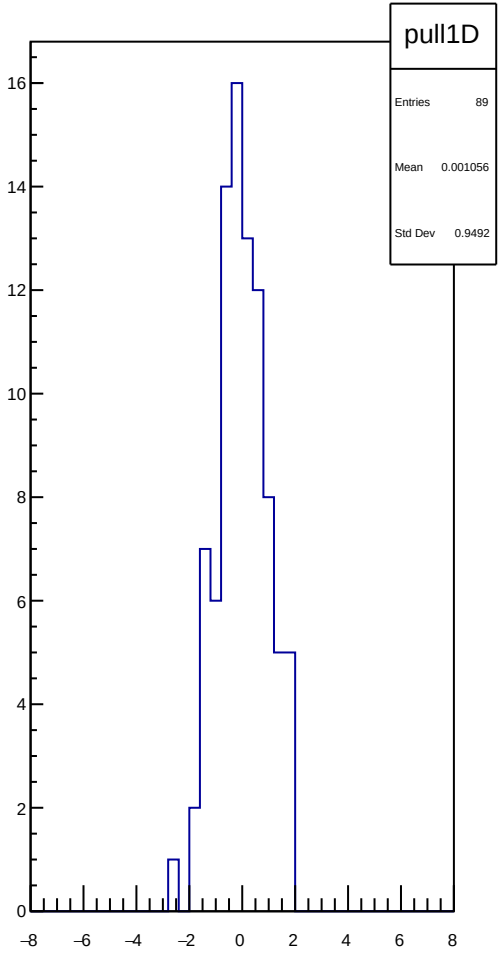

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 1.229e+04 / 88
p0 1279 ± 0.9808
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

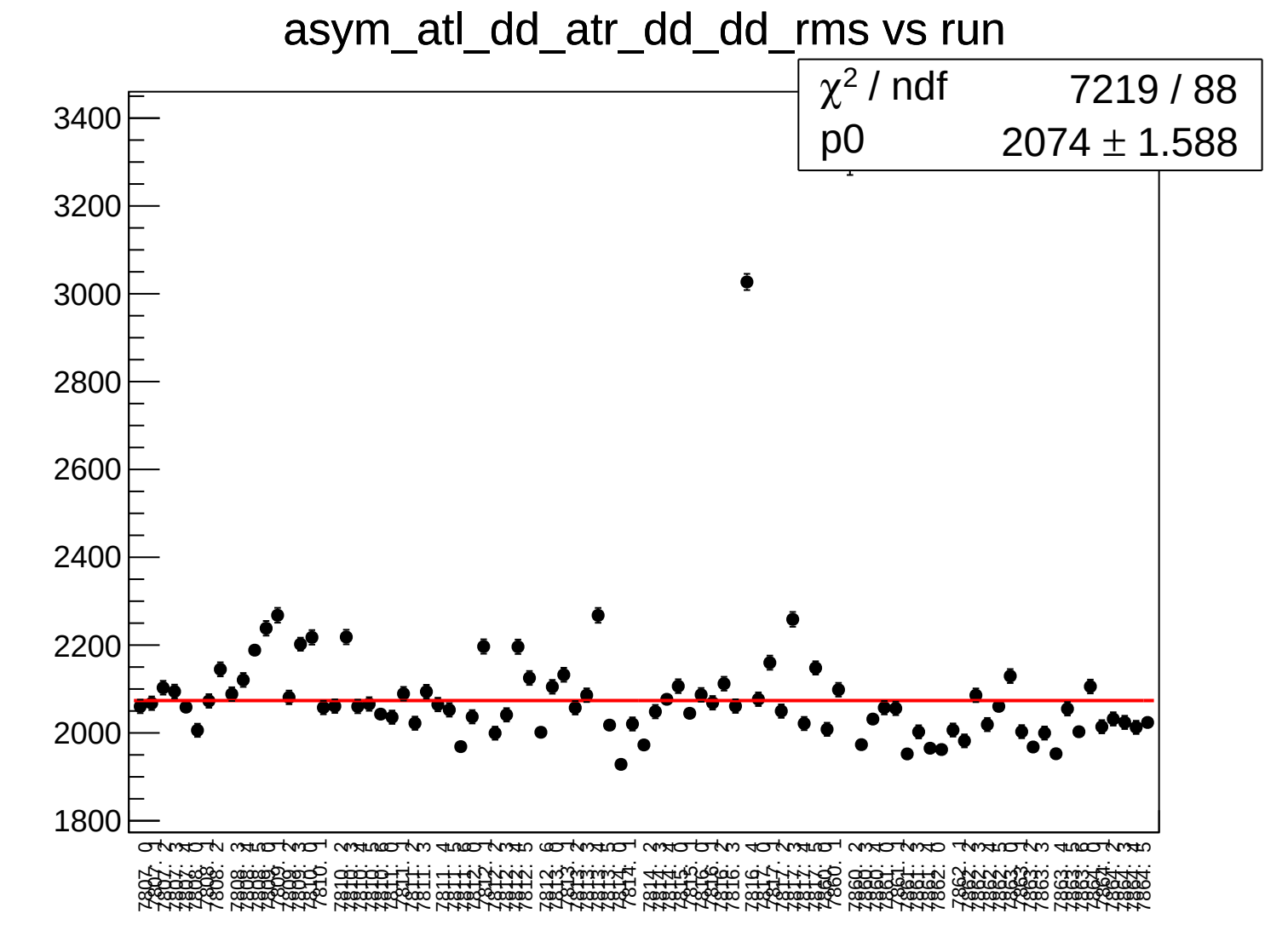

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 96.55 / 88
p0 779 ± 1751
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 105.1
Std Dev 22.42
2
1
0
−1
−2

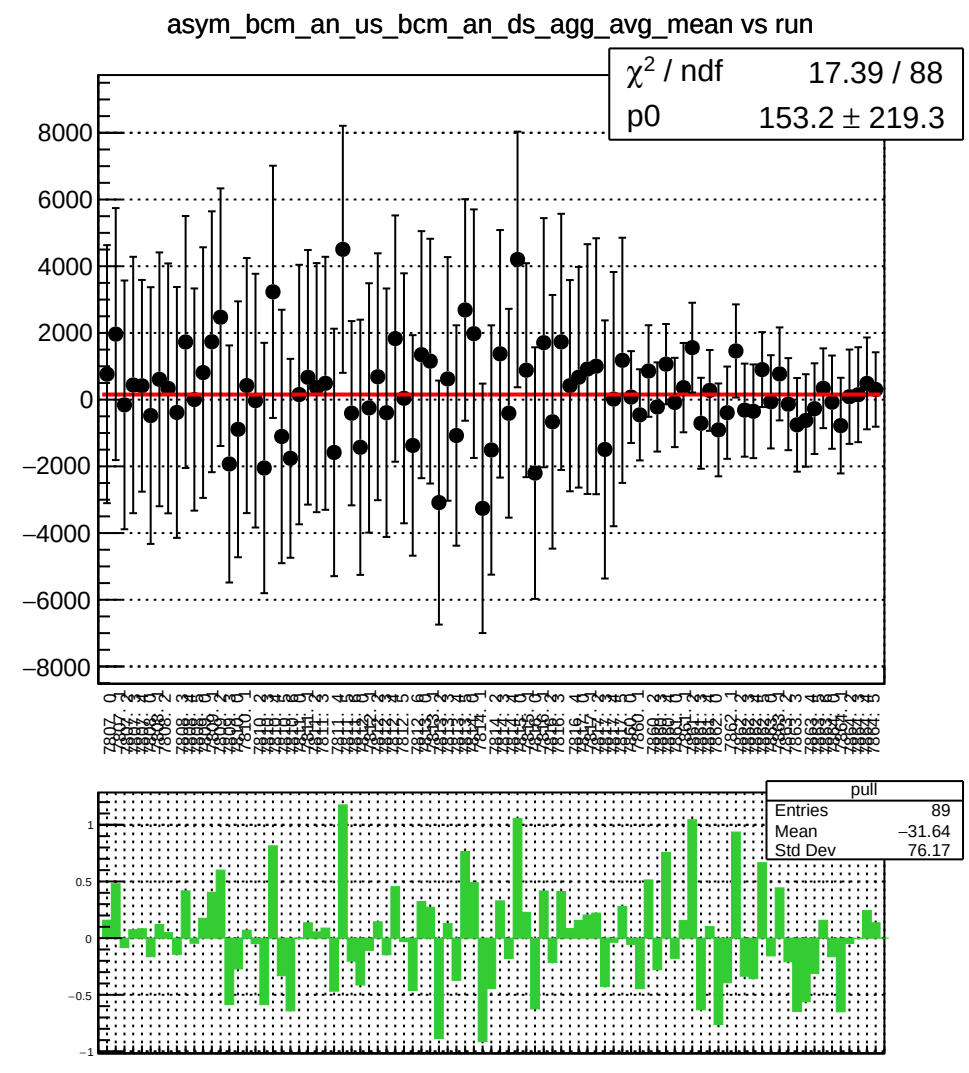

pull1D
Entries 89
Mean 0.01194
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

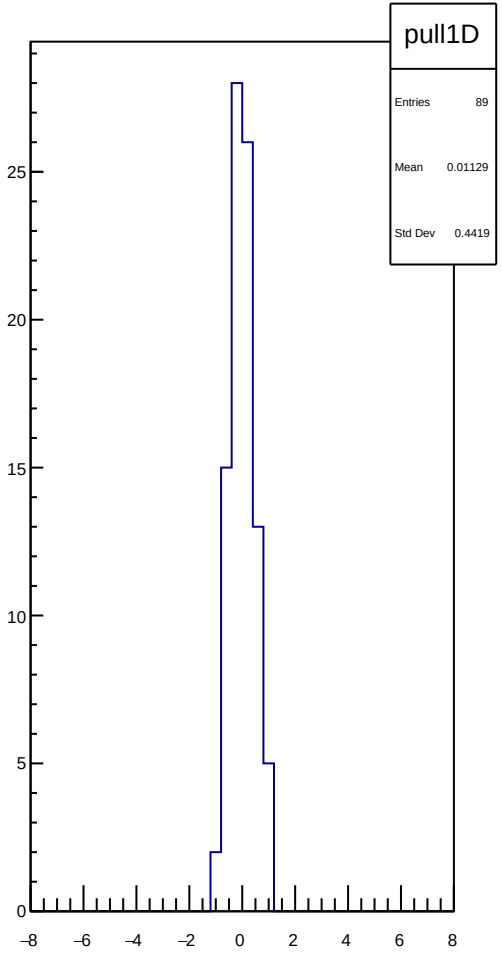

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 5163 / 88
p0 1618 ± 1.238
1900
1800
1700
1600
1500

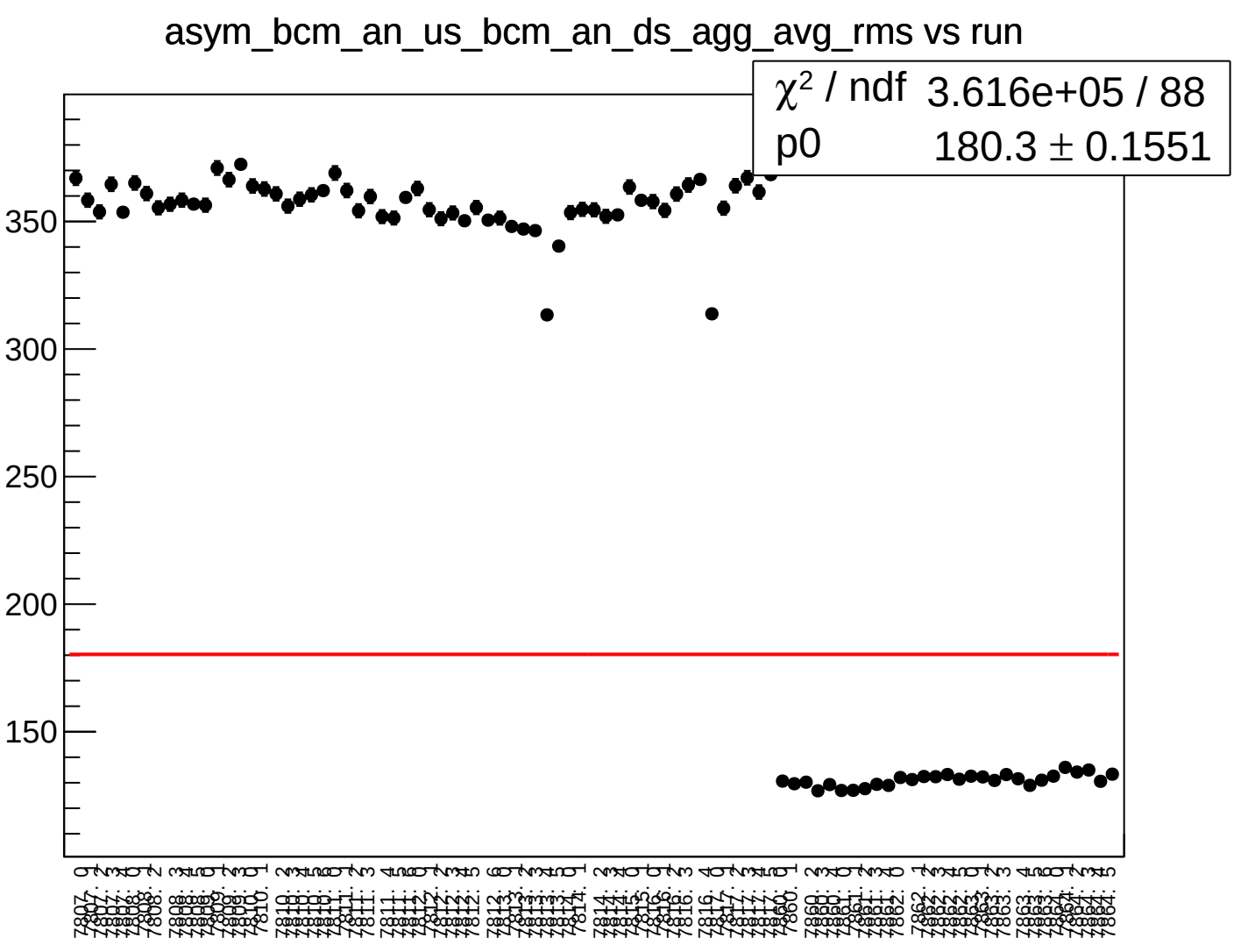

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 80.18 / 88
p0 288.5 ± 2245
pull
Entries 89
Mean −1956
Std Dev 2001

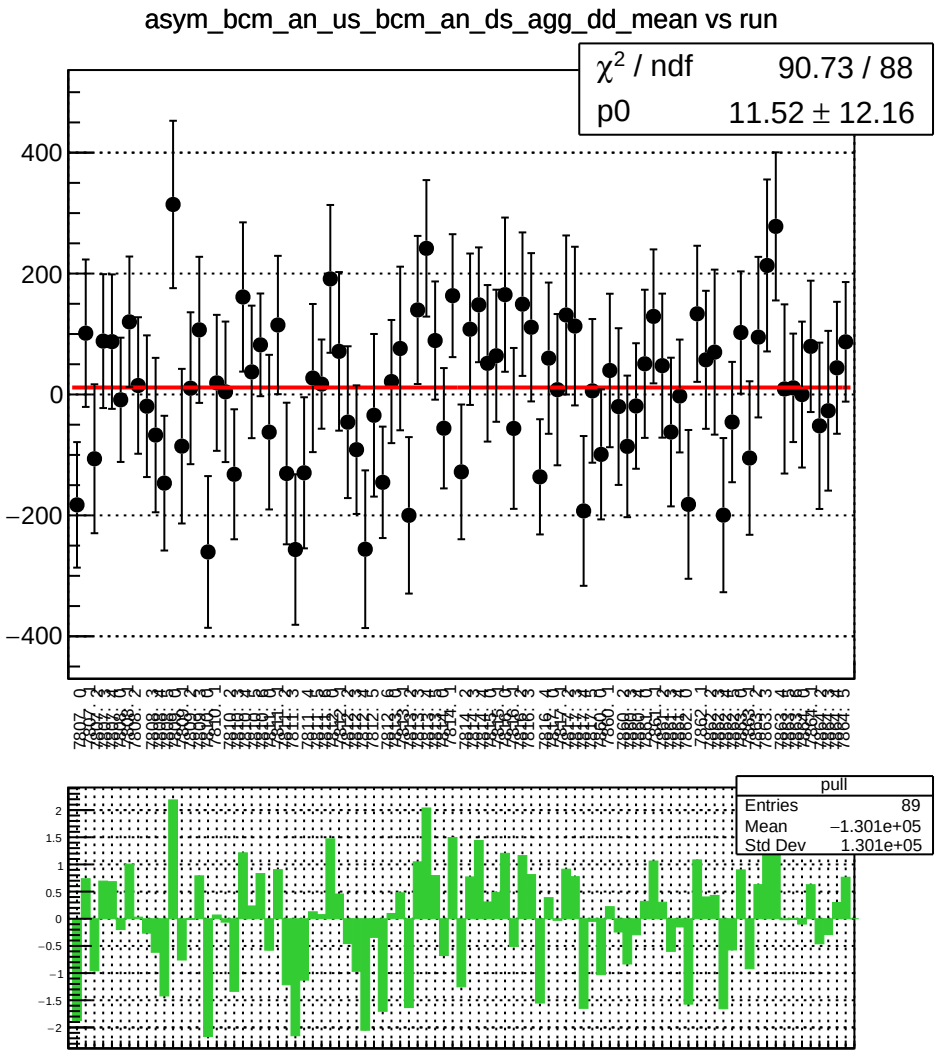

pull1D
Entries 89
Mean 0.001056
Std Dev 0.9492

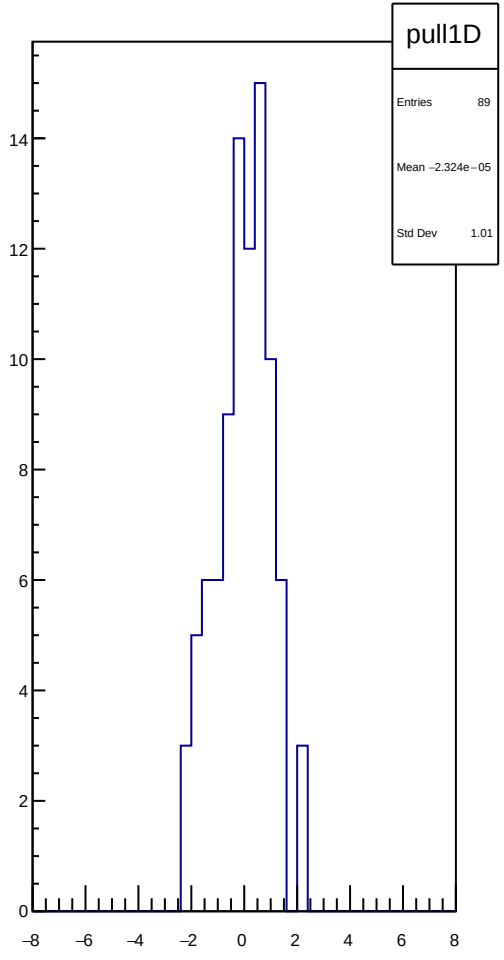

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 7219 / 88
p0 2074 ± 1.588
3400
3200
3000
2800
2600
2400
2200
2000
1800

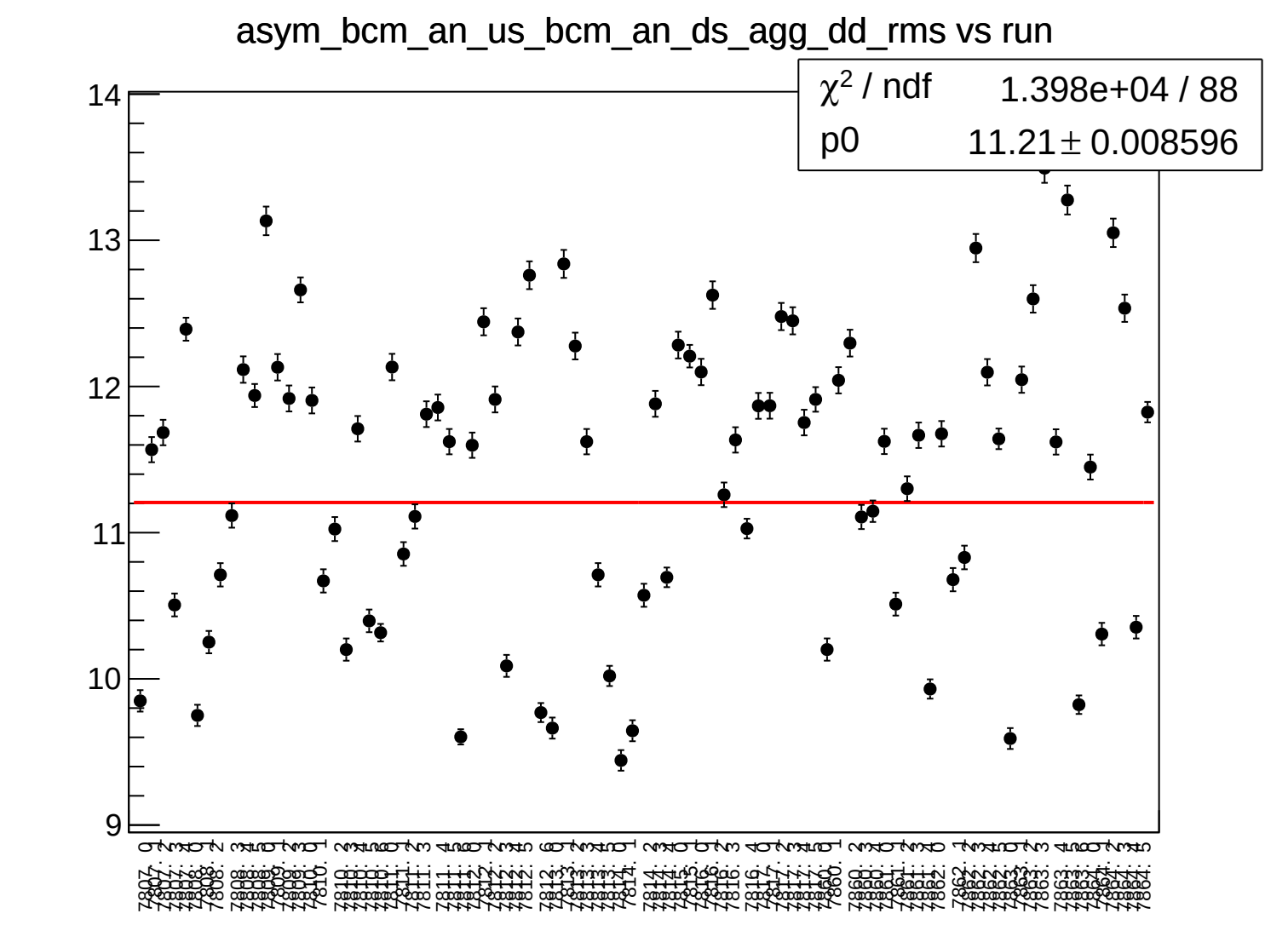

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.39 / 88
p0 153.2 ± 219.3
pull
Entries 89
Mean −31.64
Std Dev 76.17

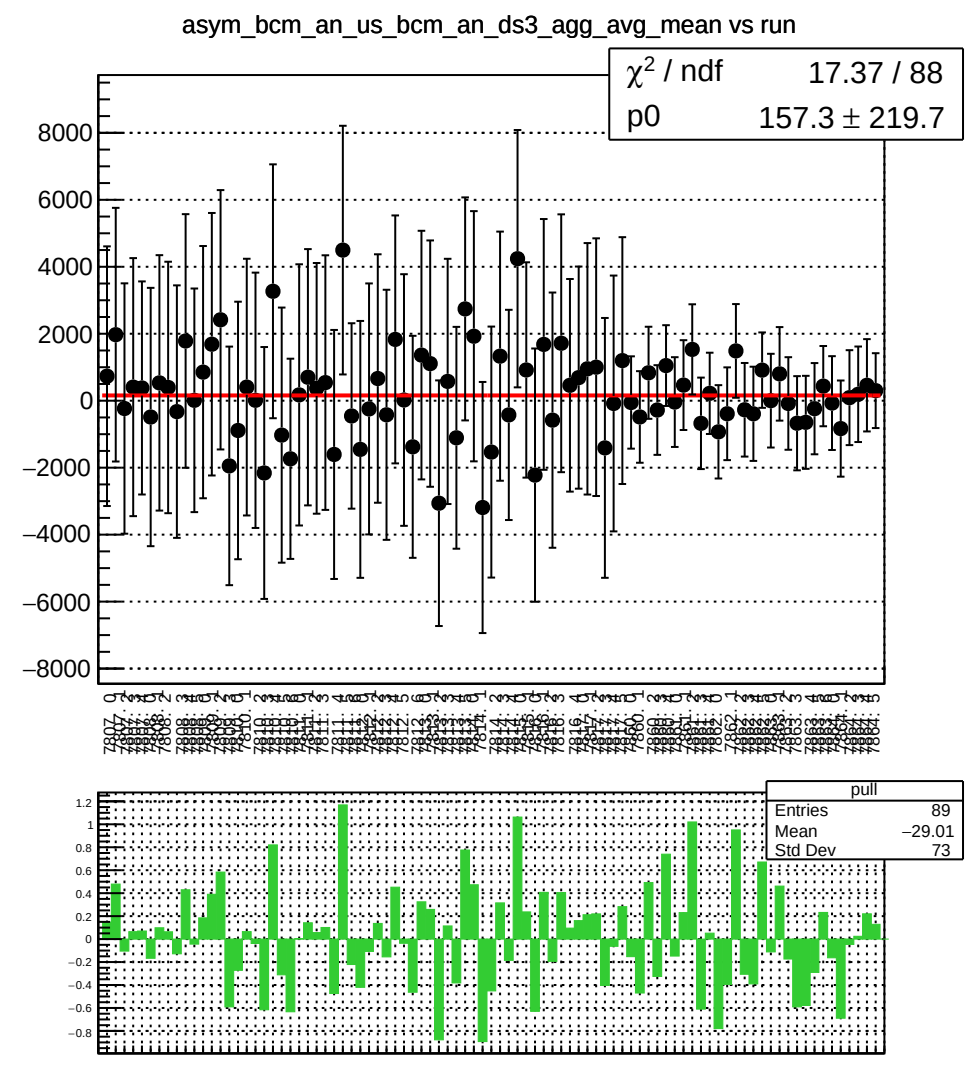

pull1D
Entries 89
Mean 0.01129
Std Dev 0.4419

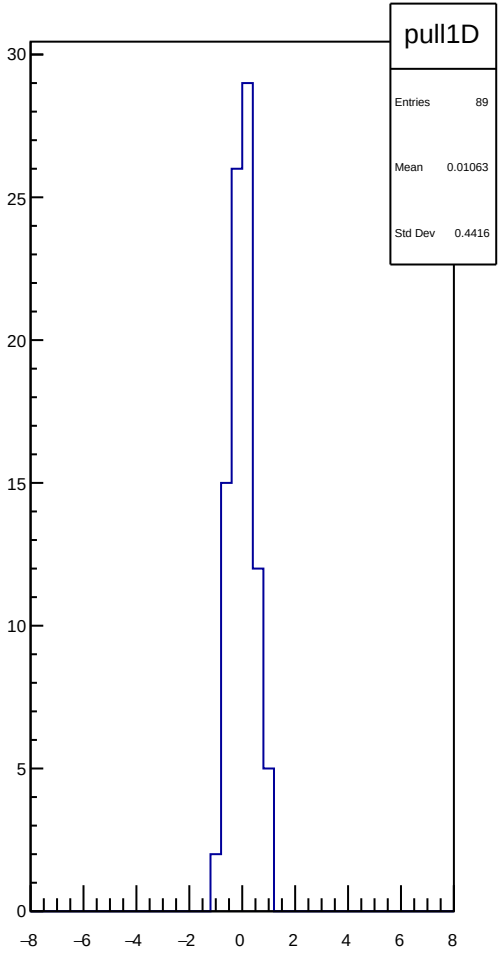

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.616e+05 / 88
p0 180.3 ± 0.1551
350
300
250
200
150

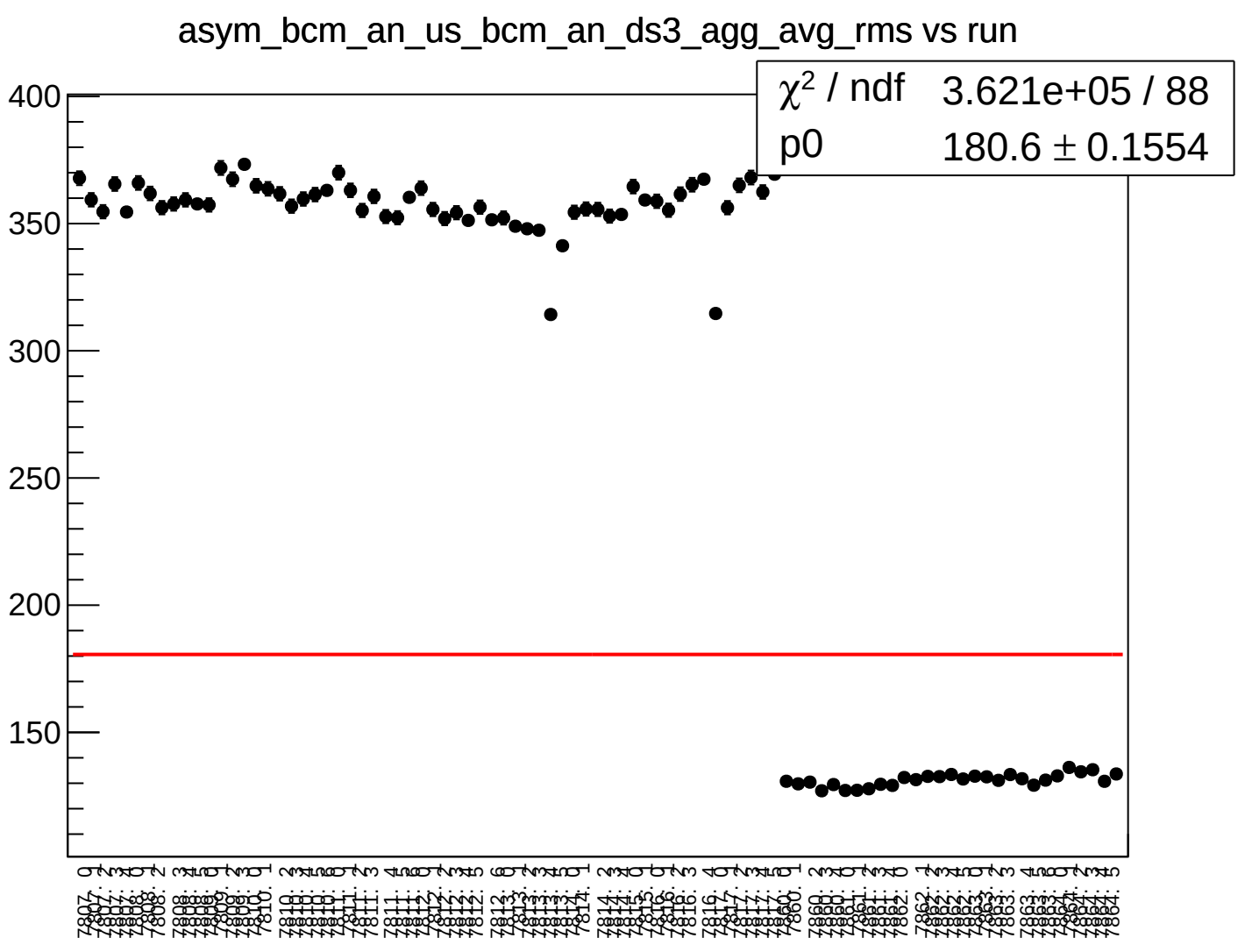

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 90.73 / 88
p0 11.52 ± 12.16
400
200
0
−200
−400
pull
Entries 89
Mean −1.301e+05
Std Dev 1.301e+05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

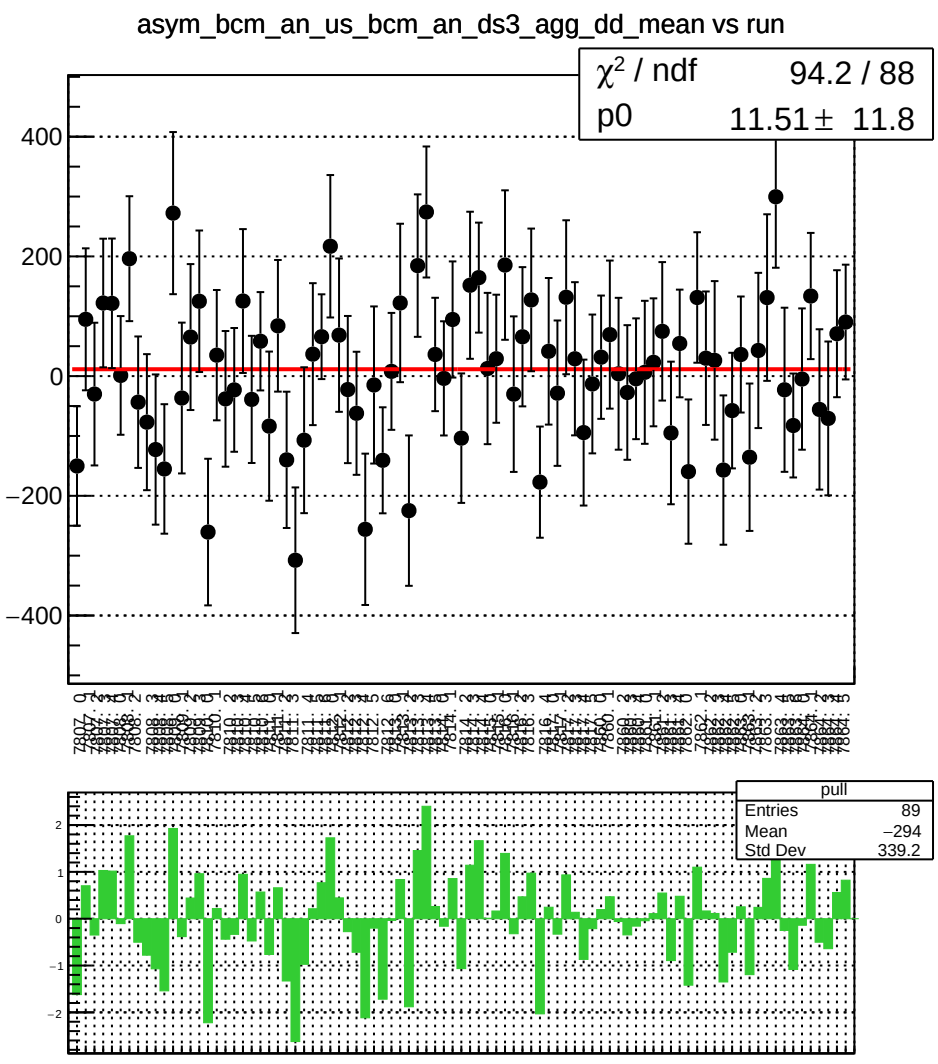

pull1D
Entries 89
Mean −2.324e−05
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

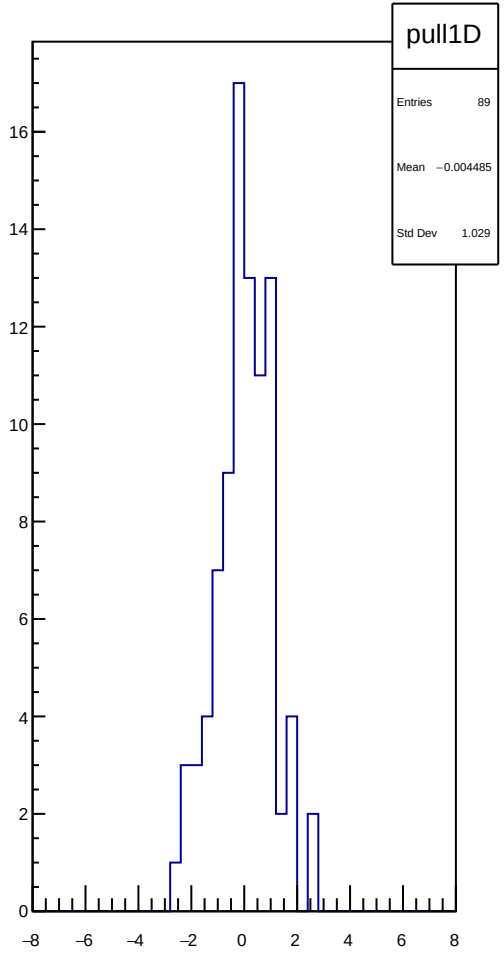

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.398e+04 / 88
p0 11.21 ± 0.008596
14
13
12
11
10
9

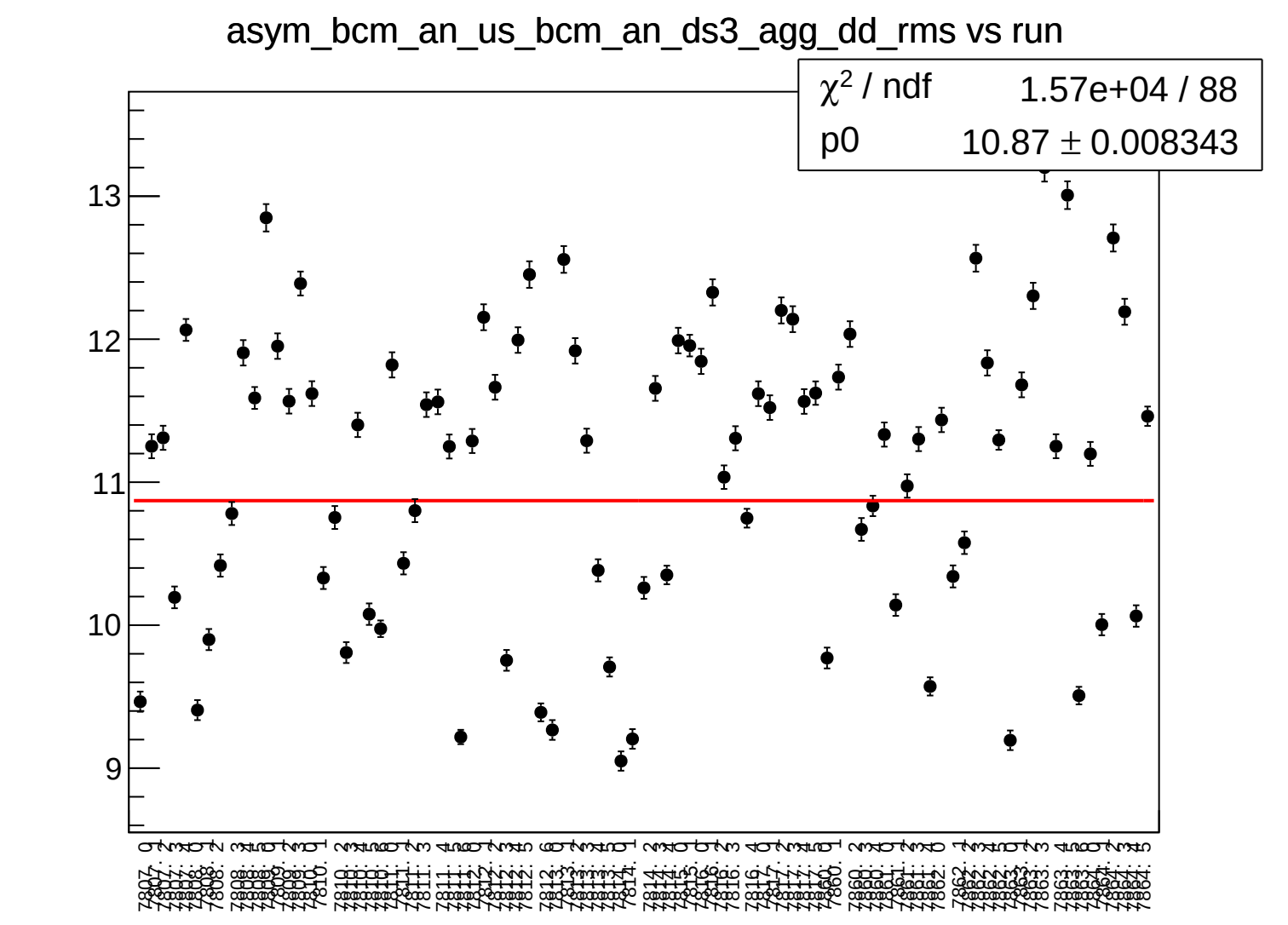

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 17.37 / 88
p0 157.3 ± 219.7
pull
Entries 89
Mean −29.01
Std Dev 73

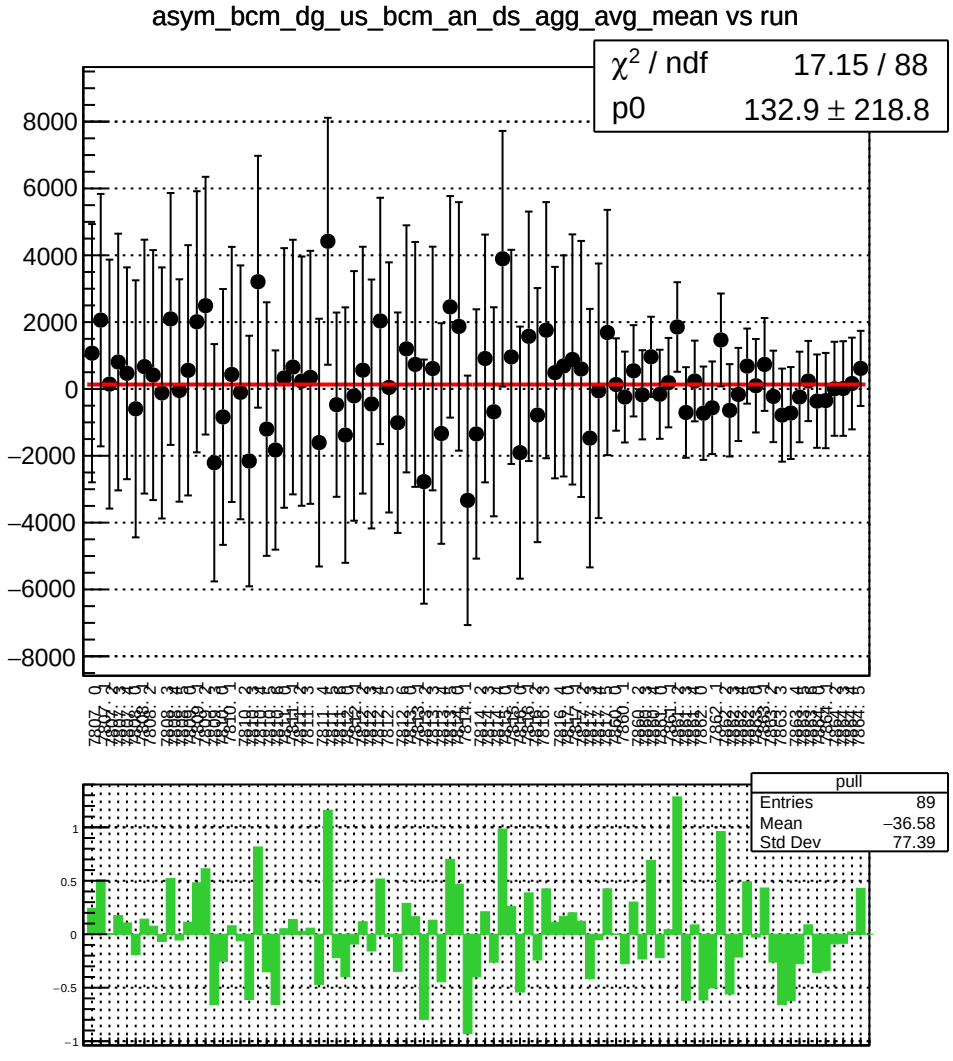

pull1D
Entries 89
Mean 0.01063
Std Dev 0.4416

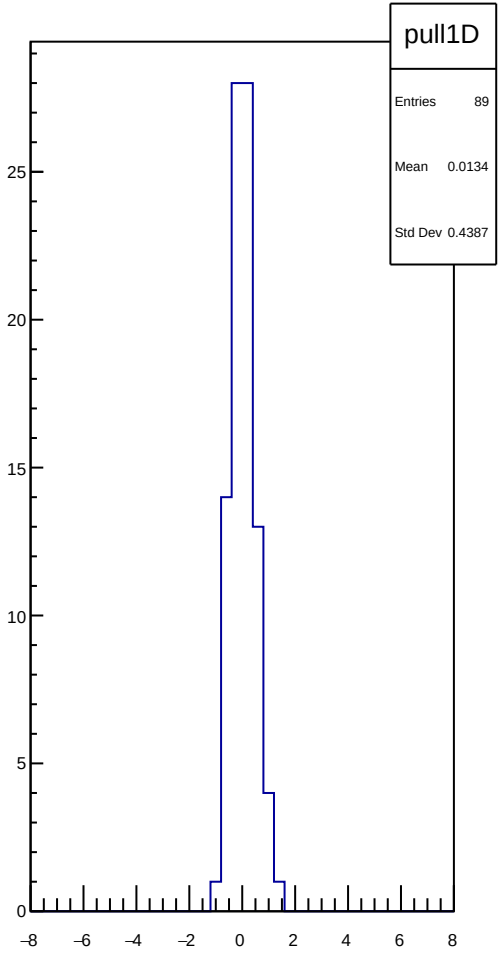

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3.621e+05 / 88
p0 180.6 ± 0.1554
400
350
300
250
200
150

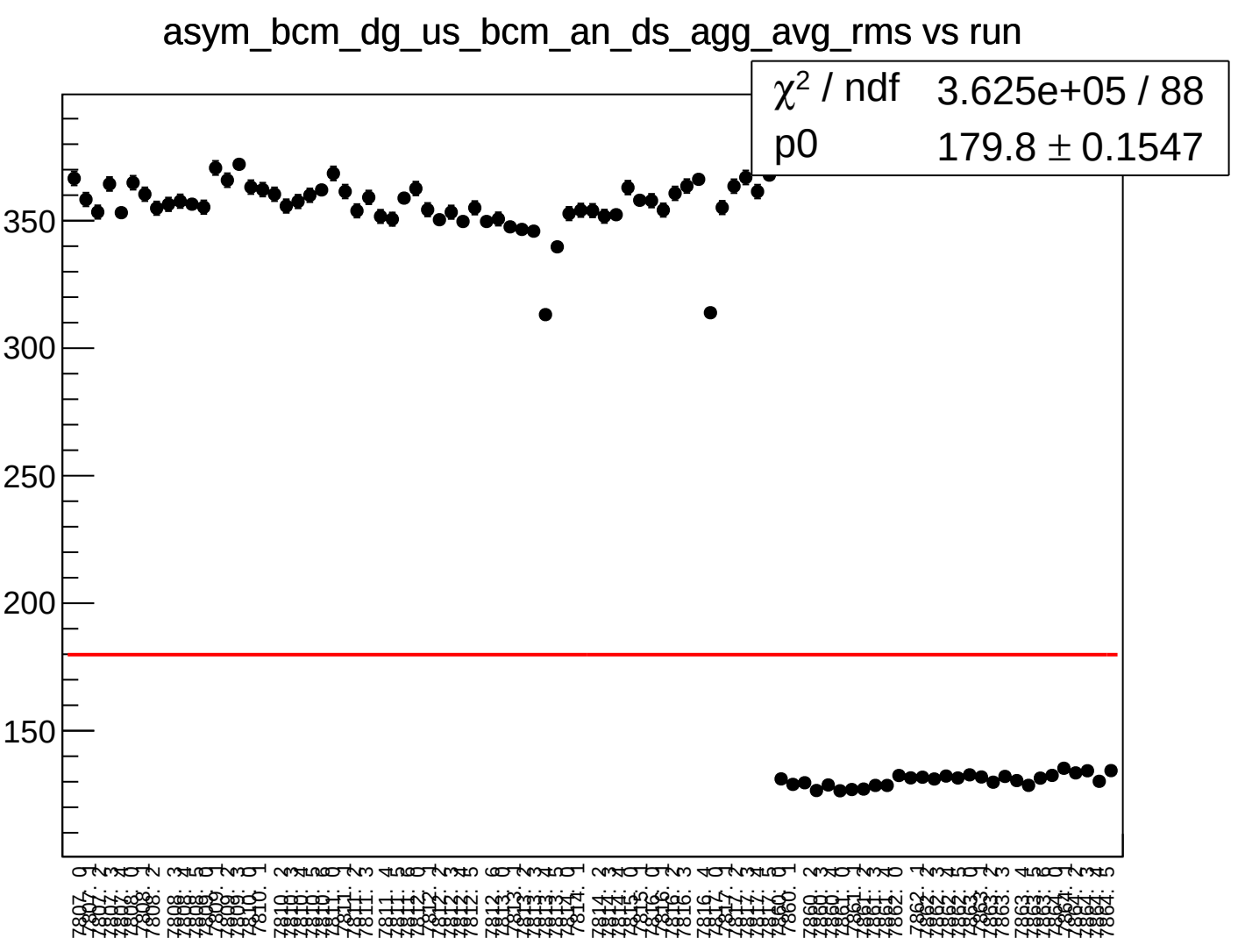

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 94.2 / 88
p0 11.51 ± 11.8
400
200
0
−200
−400
pull
Entries 89
Mean −294
Std Dev 339.2
2
1
0
−1
−2

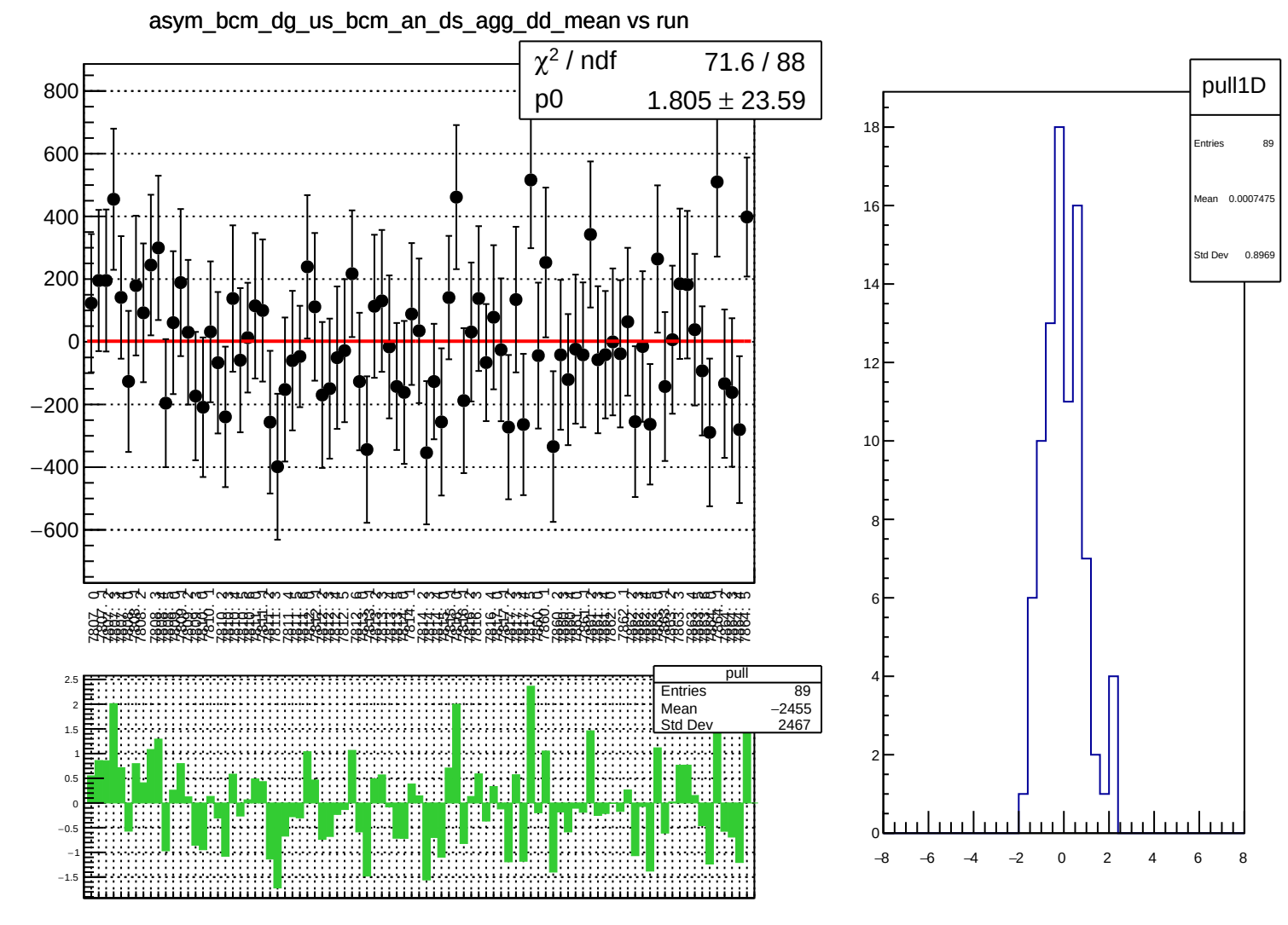

pull1D
Entries 89
Mean −0.004485
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

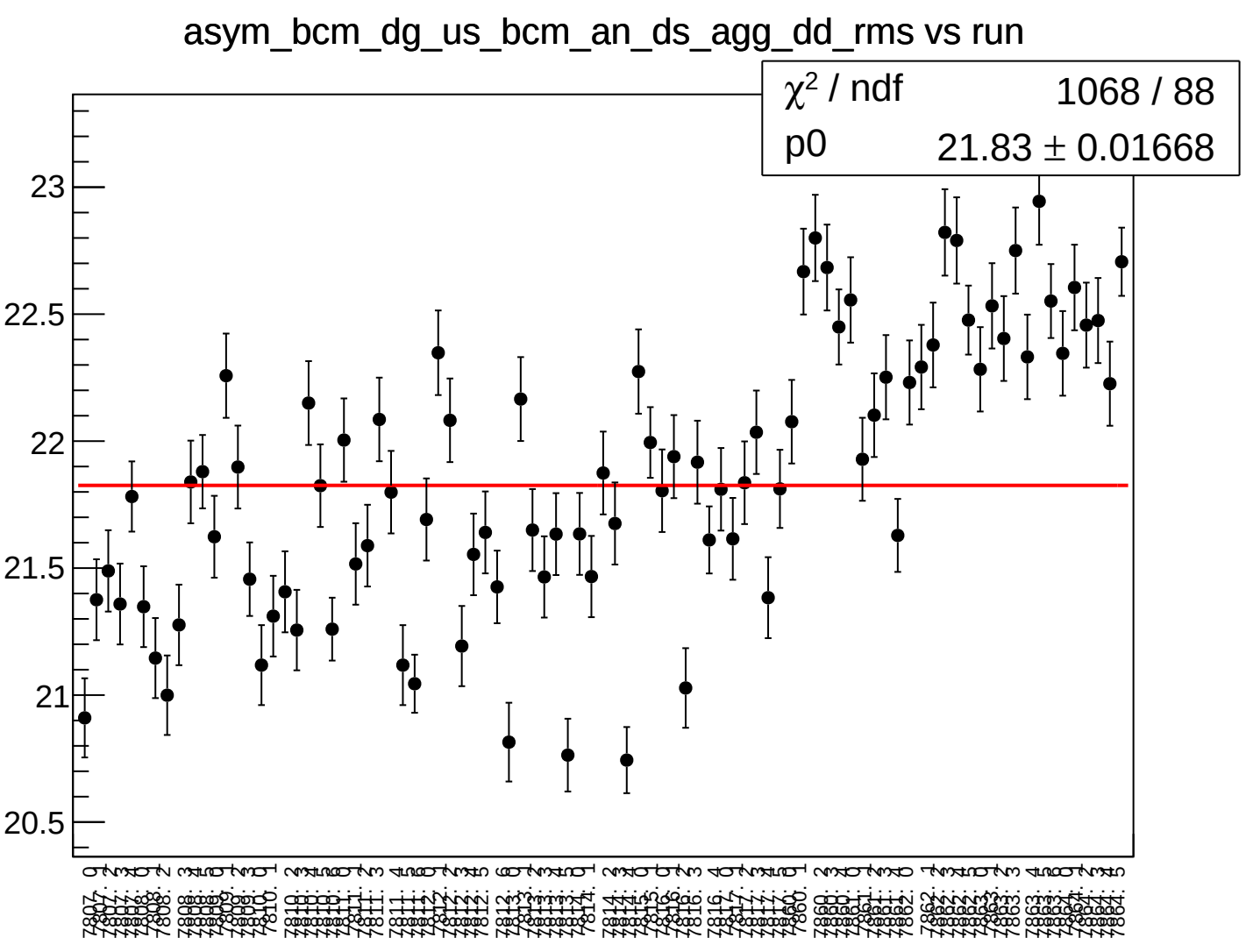

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.57e+04 / 88
p0 10.87 ± 0.008343
13
12
11
10
9

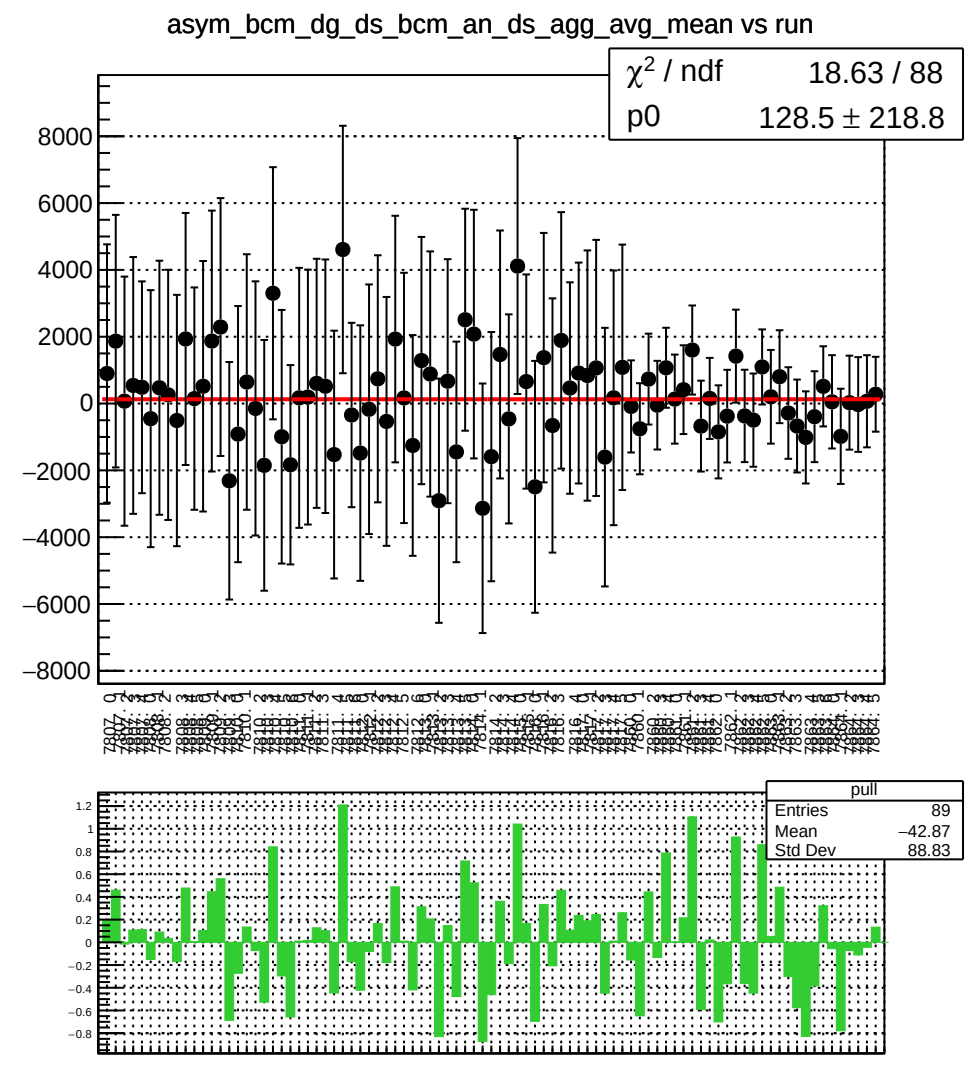

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.15 / 88
p0 132.9 ± 218.8
pull
Entries 89
Mean −36.58
Std Dev 77.39

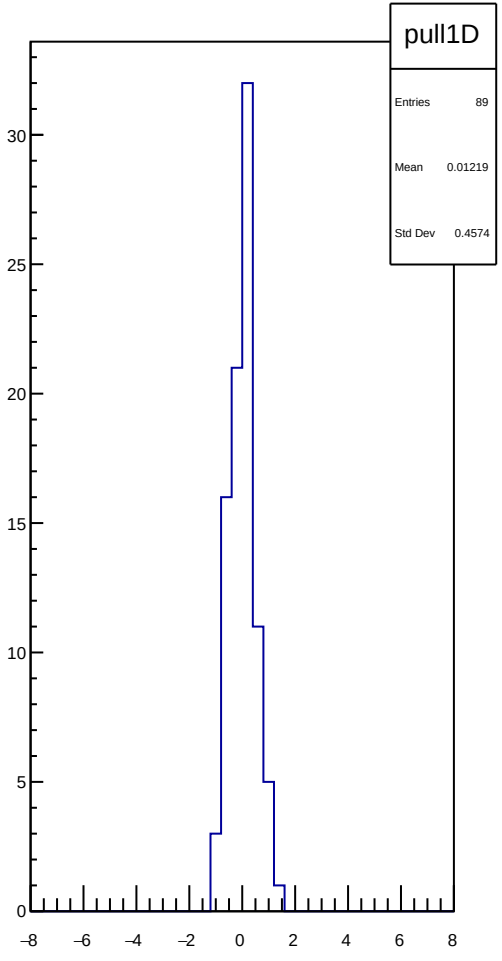

pull1D
Entries 89
Mean 0.0134
Std Dev 0.4387

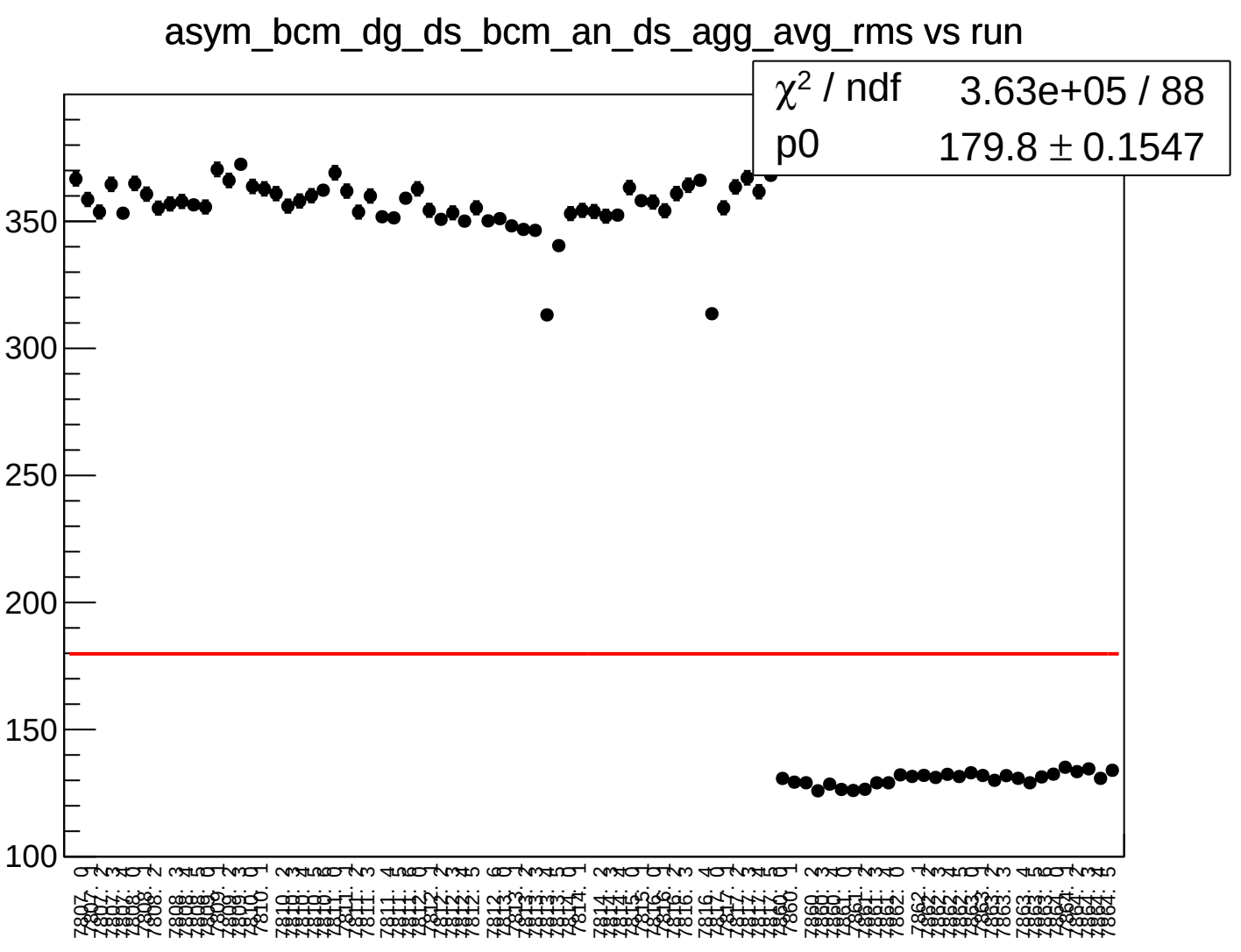

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.625e+05 / 88
p0 179.8 ± 0.1547
350
300
250
200
150

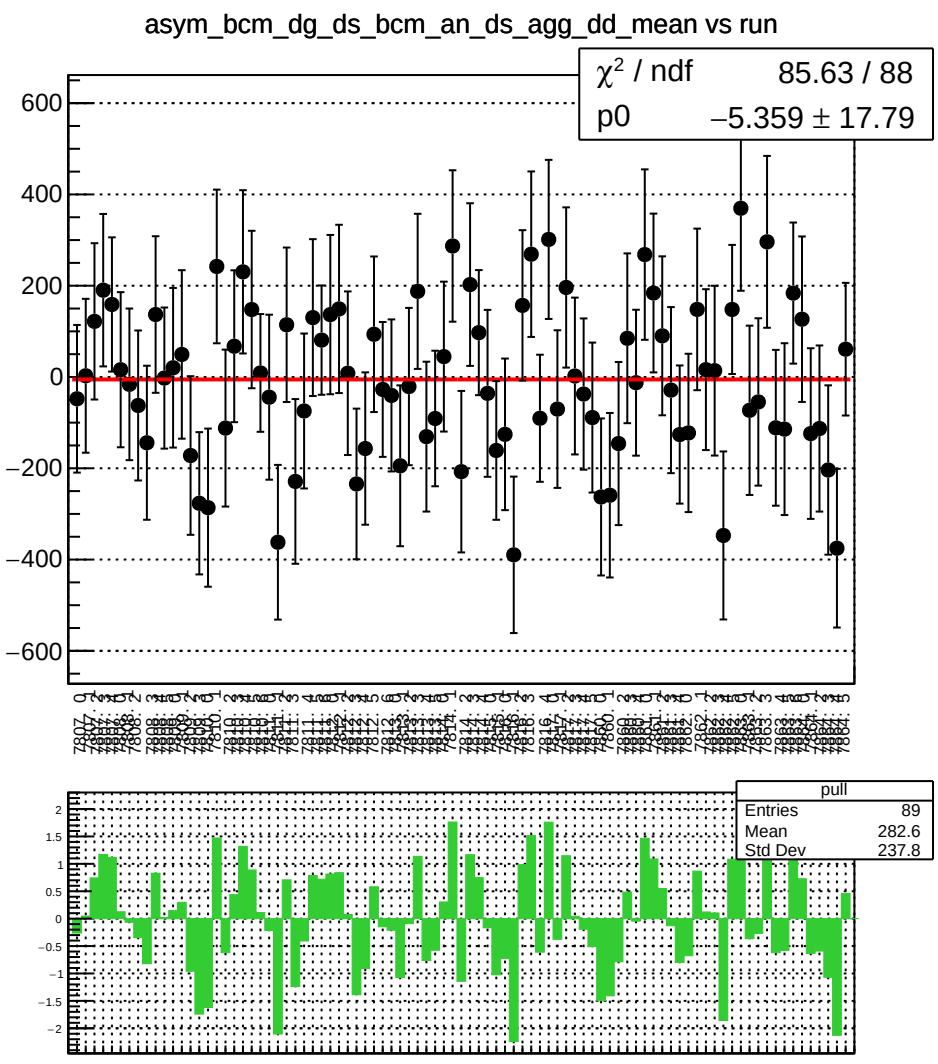

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 71.6 / 88
p0 1.805 ± 23.59
pull
Entries 89
Mean −2455
Std Dev 2467
pull1D
Entries 89
Mean 0.0007475
Std Dev 0.8969

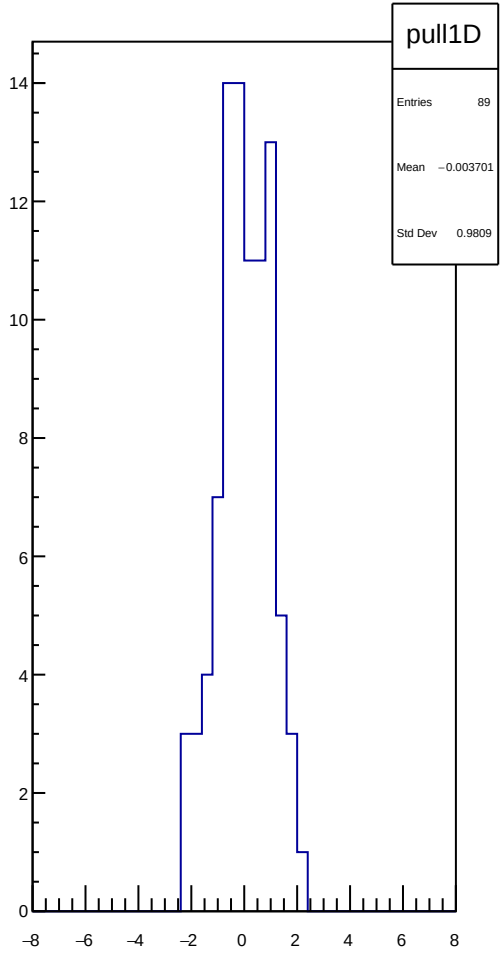

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1068 / 88
p0 21.83 ± 0.01668
23
22.5
22
21.5
21
20.5

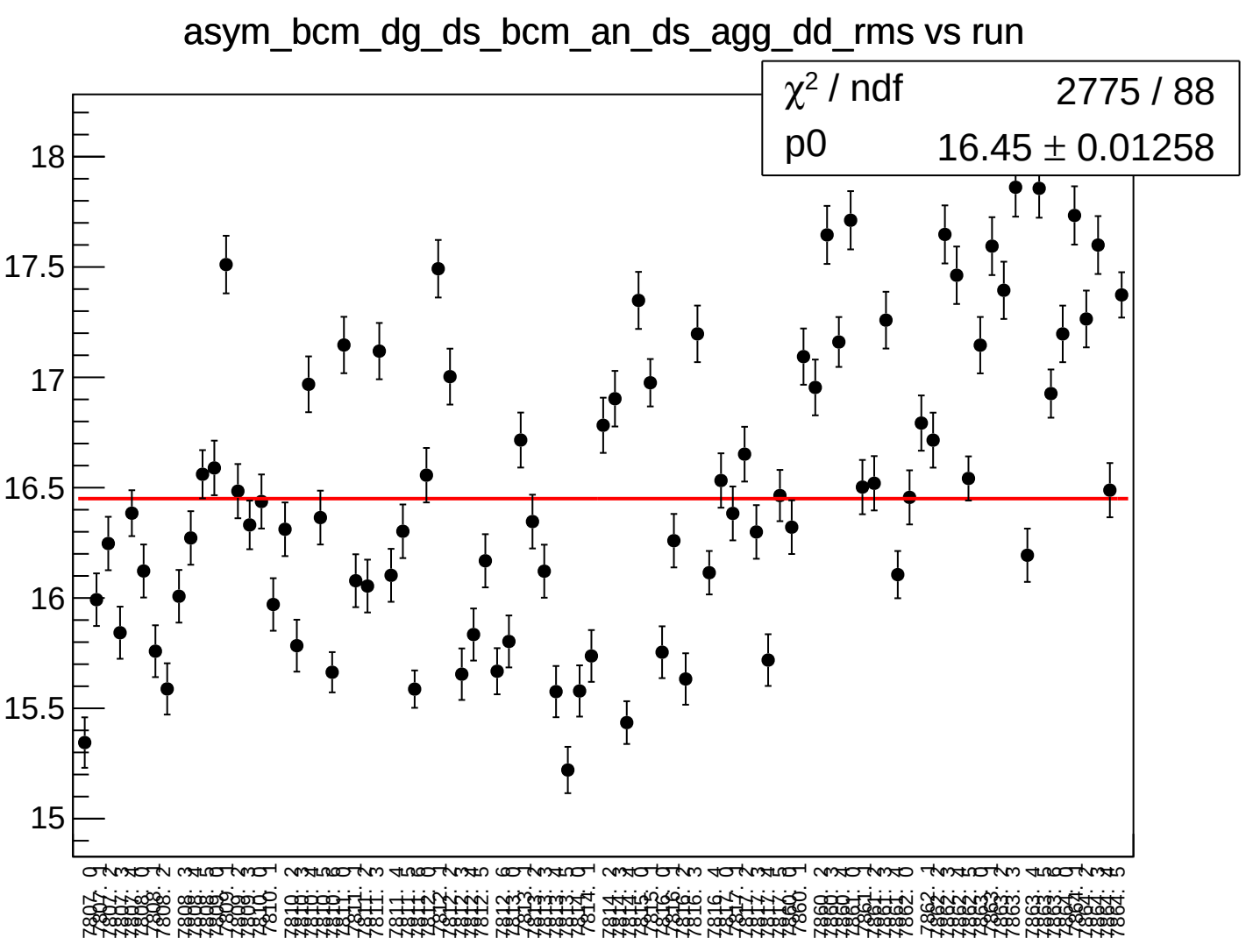

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.63 / 88
p0 128.5 ± 218.8
pull
Entries 89
Mean −42.87
Std Dev 88.83

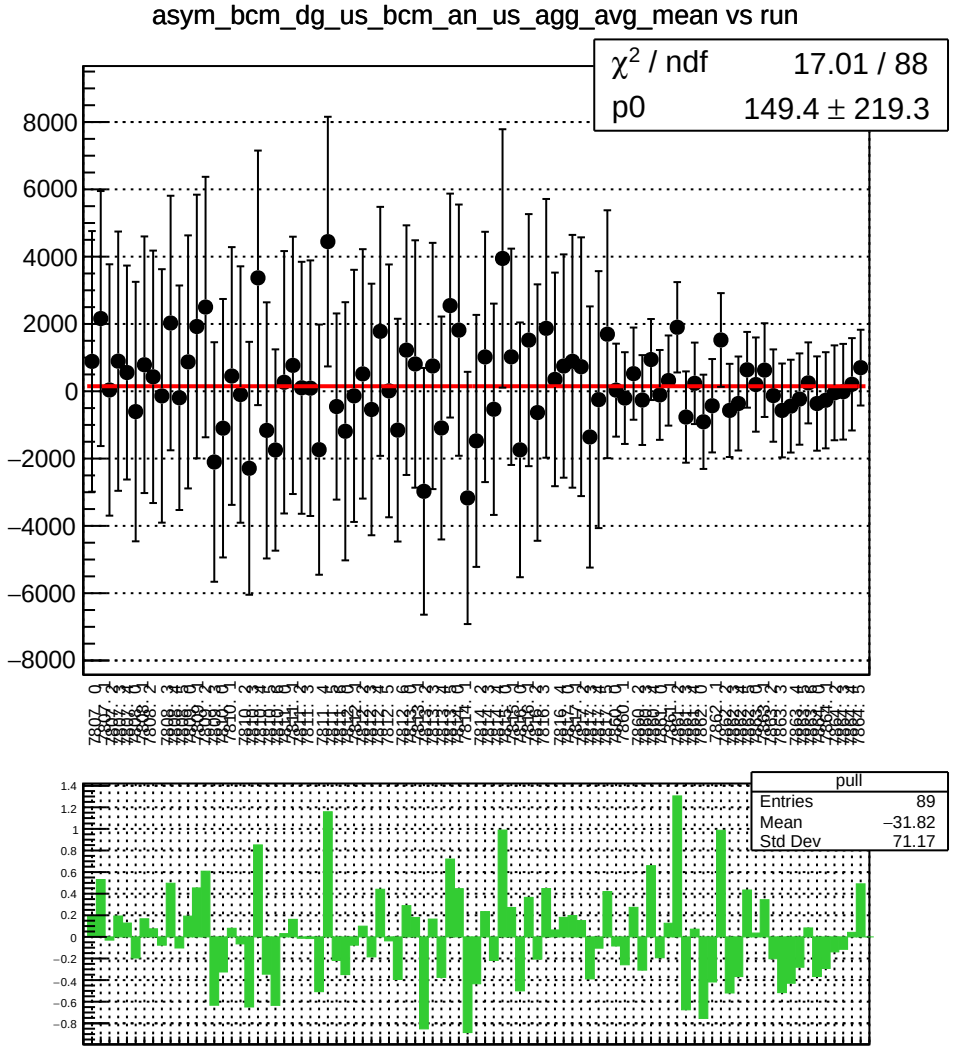

pull1D
Entries 89
Mean 0.01219
Std Dev 0.4574

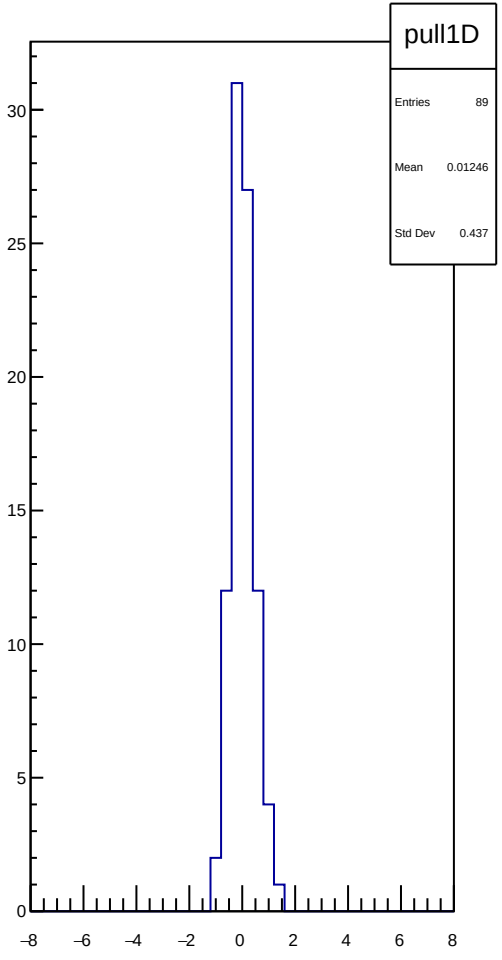

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.63e+05 / 88
p0 179.8 ± 0.1547
350
300
250
200
150
100

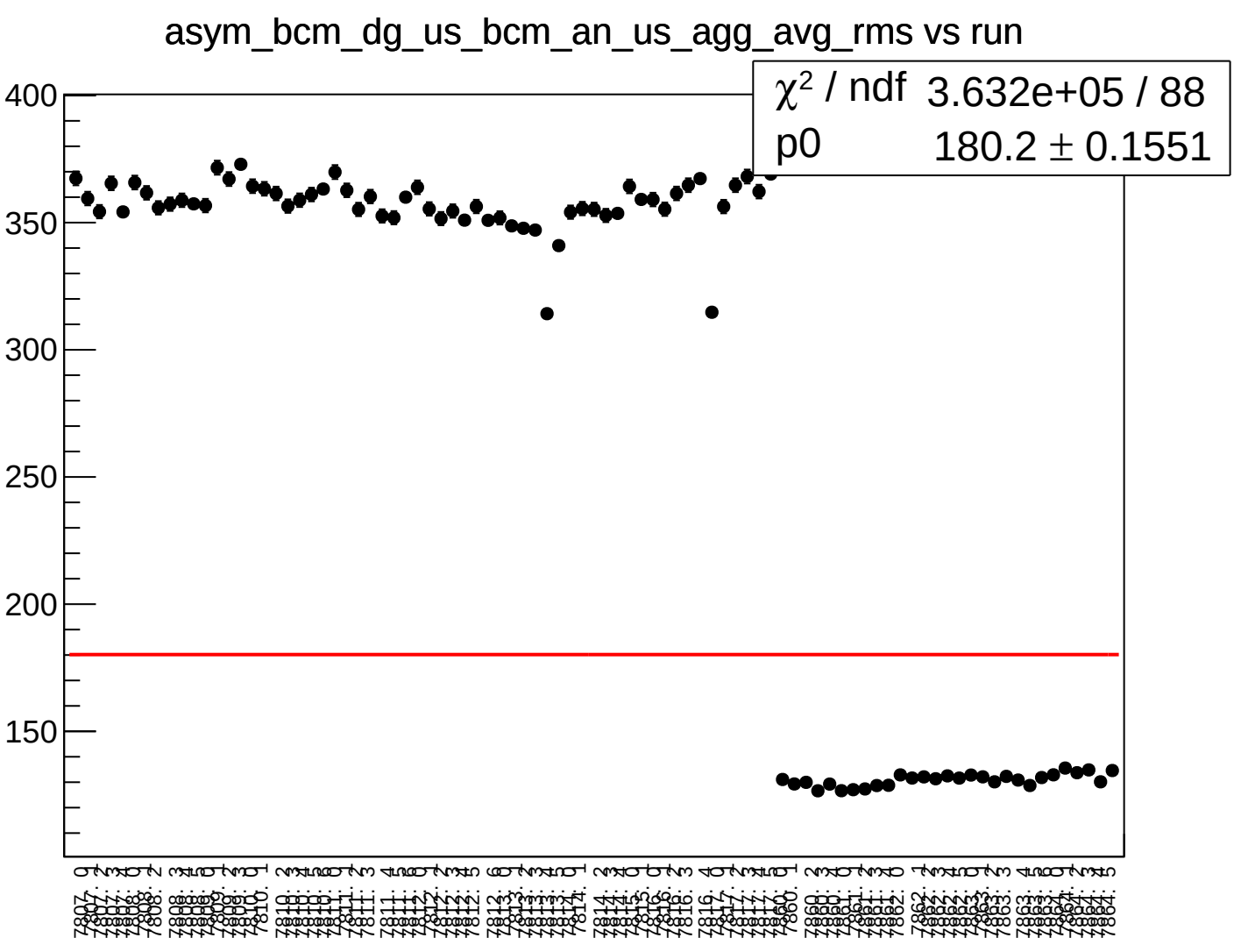

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 85.63 / 88
p0 −5.359 ± 17.79
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean 282.6
Std Dev 237.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

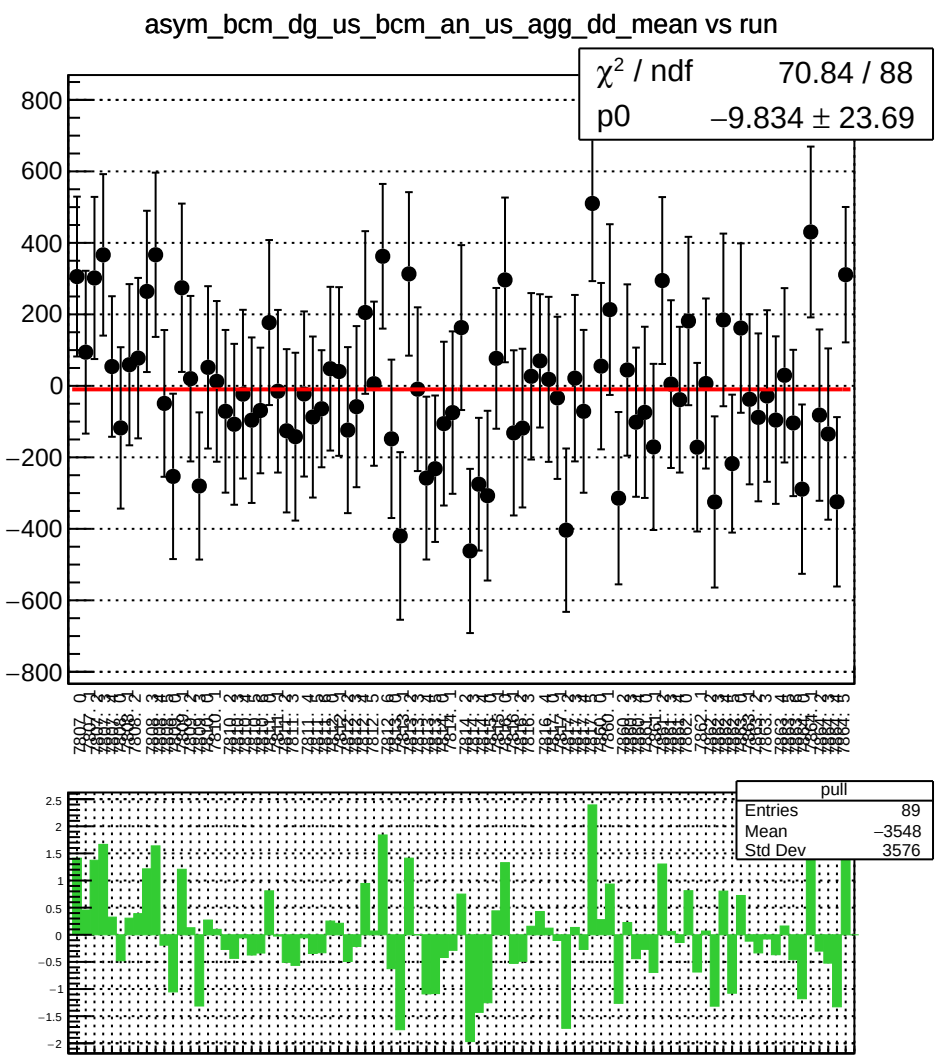

pull1D
Entries 89
Mean −0.003701
Std Dev 0.9809
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

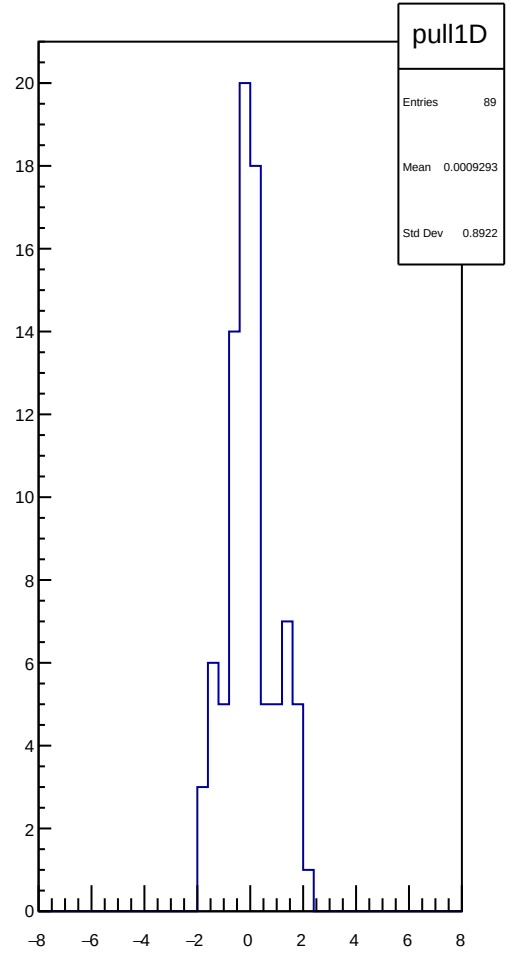

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2775 / 88
p0 16.45 ± 0.01258
18
17.5
17
16.5
16
15.5
15

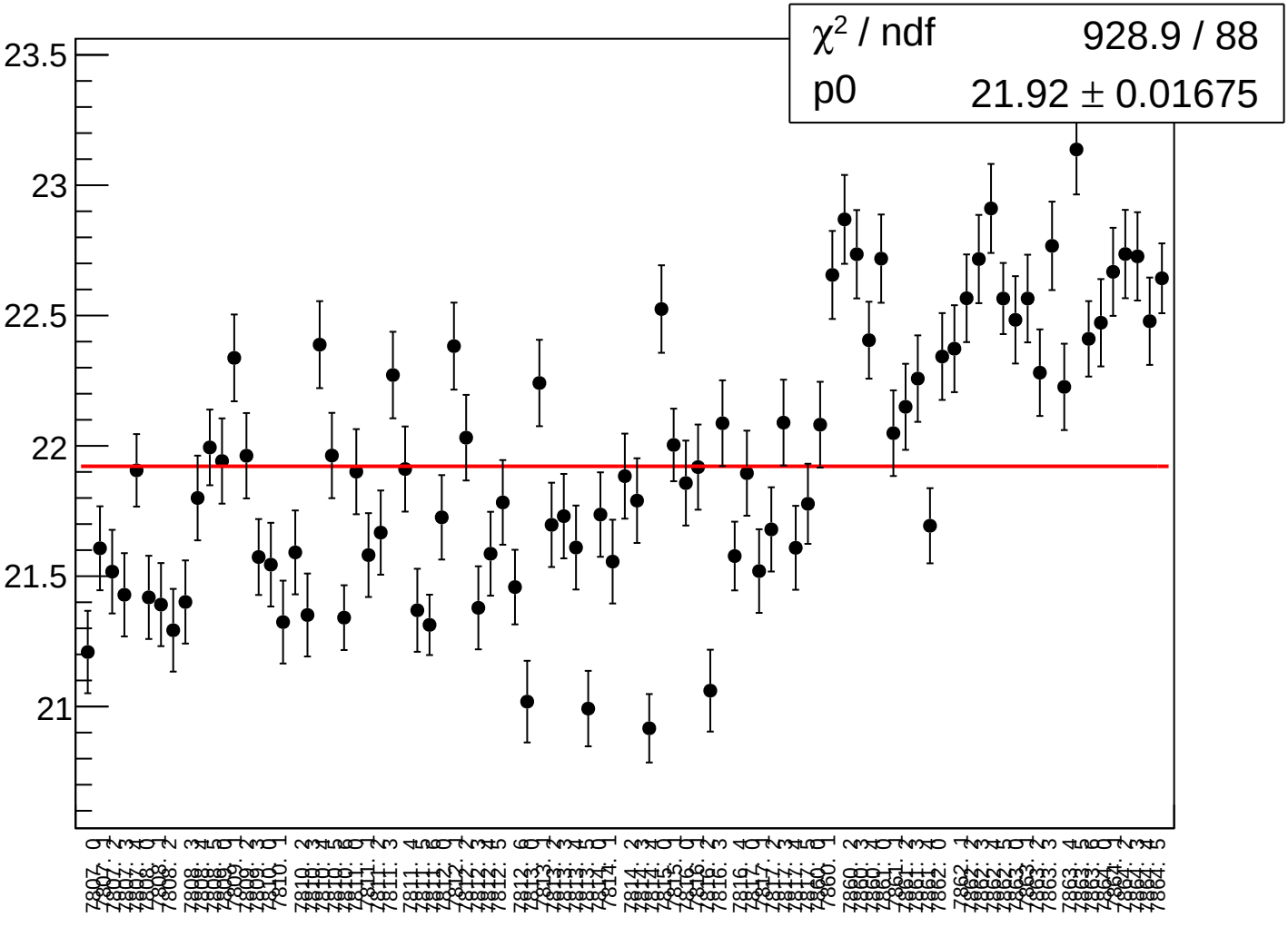

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.01 / 88
p0 149.4 ± 219.3
pull
Entries 89
Mean −31.82
Std Dev 71.17

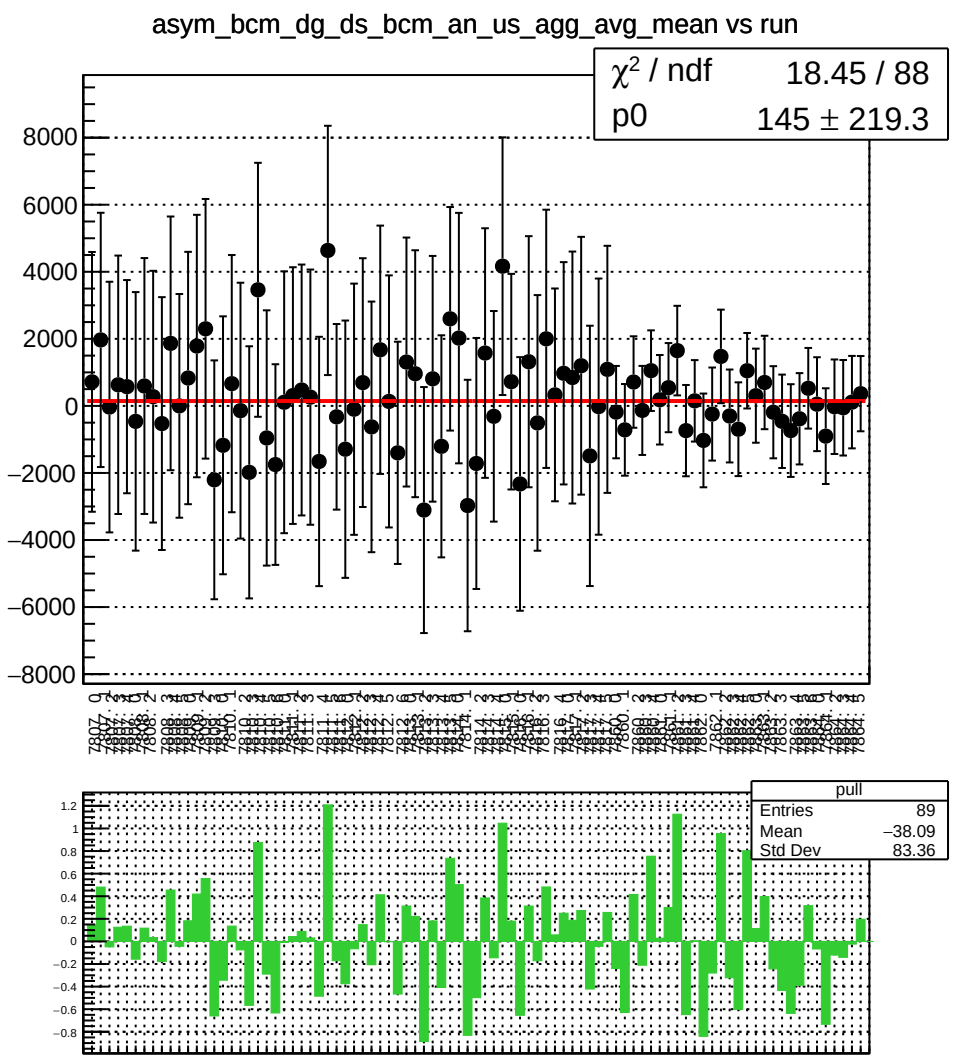

pull1D
Entries 89
Mean 0.01246
Std Dev 0.437

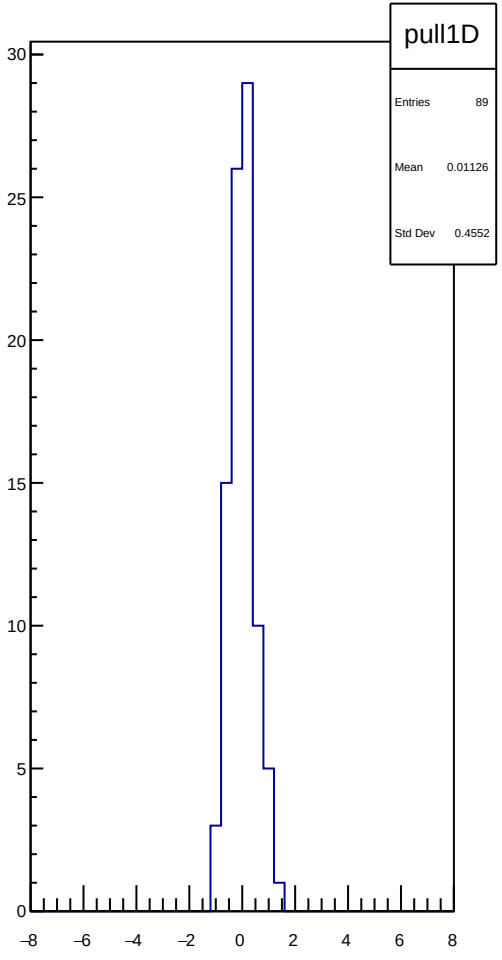

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.632e+05 / 88
p0 180.2 ± 0.1551
400
350
300
250
200
150

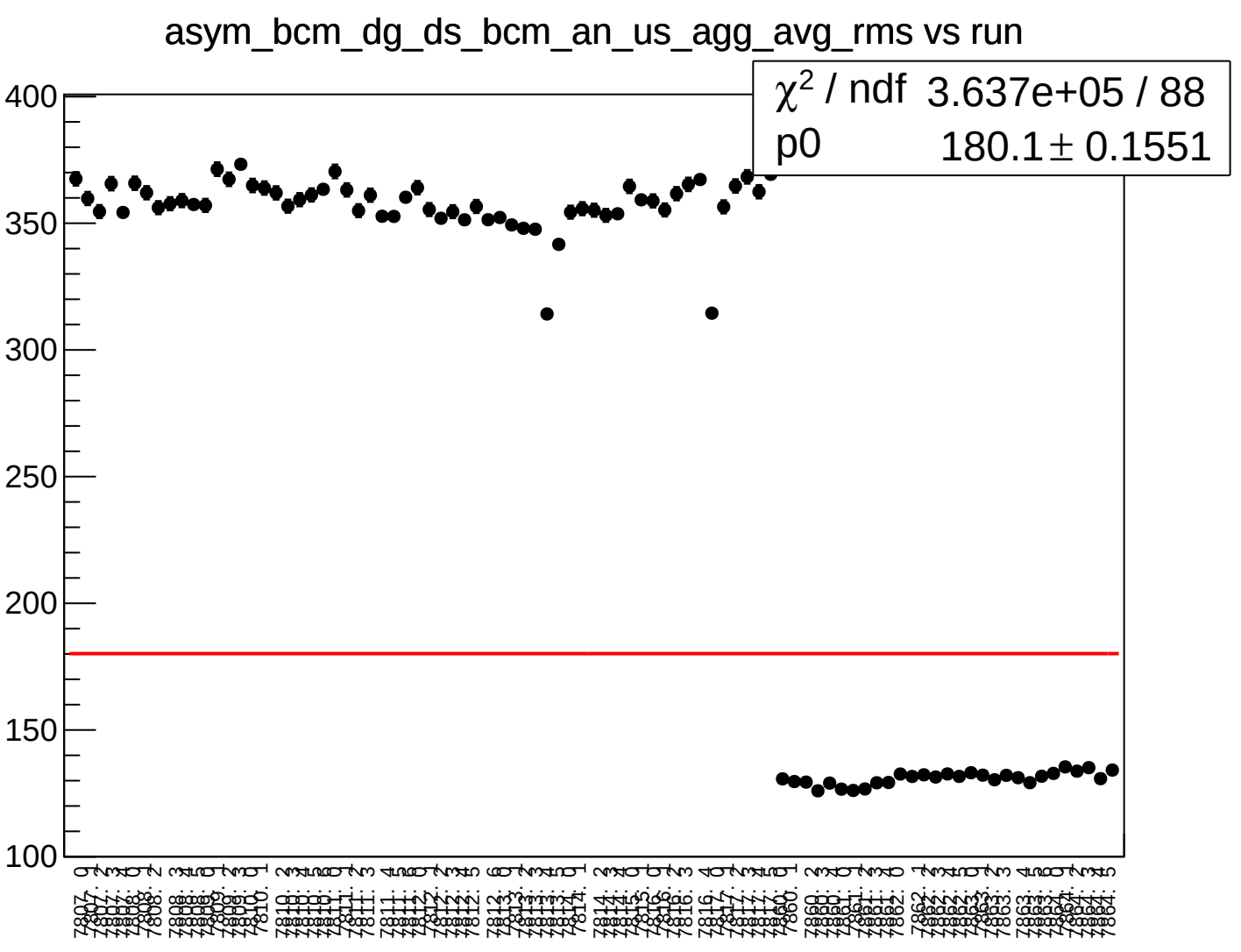

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 70.84 / 88
p0 −9.834 ± 23.69
pull
Entries 89
Mean −3548
Std Dev 3576

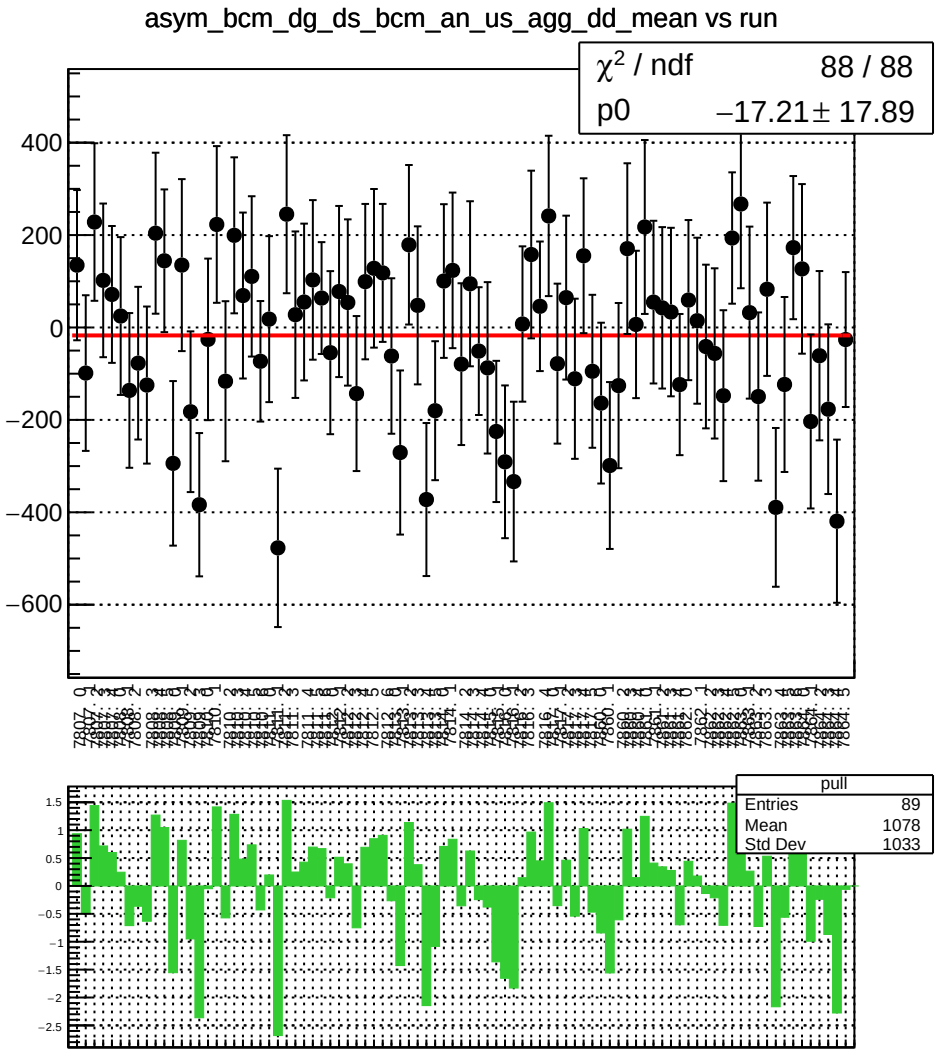

pull1D
Entries 89
Mean 0.0009293
Std Dev 0.8922

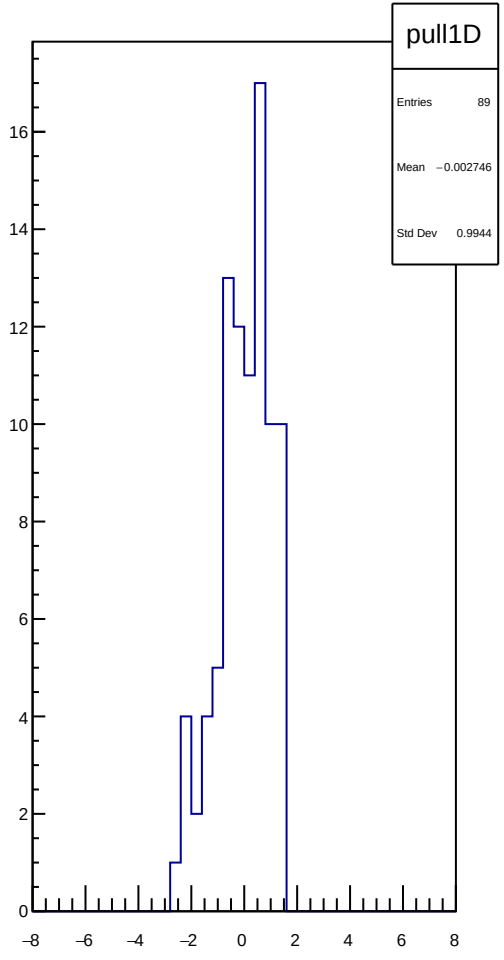

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 928.9 / 88
p0 21.92 ± 0.01675
23.5
23
22.5
22
21.5
21

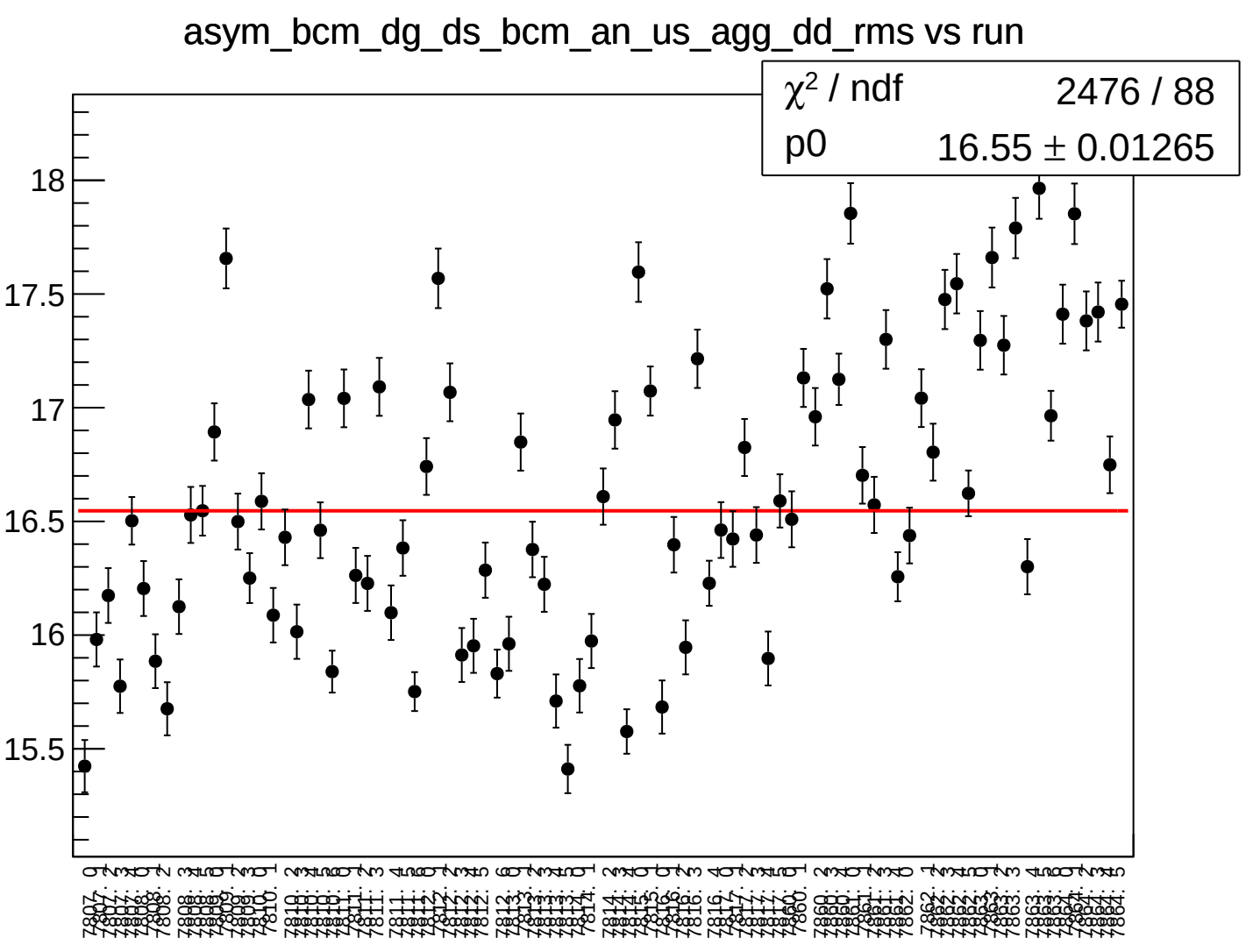

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 18.45 / 88
p0 145 ± 219.3
pull
Entries 89
Mean −38.09
Std Dev 83.36

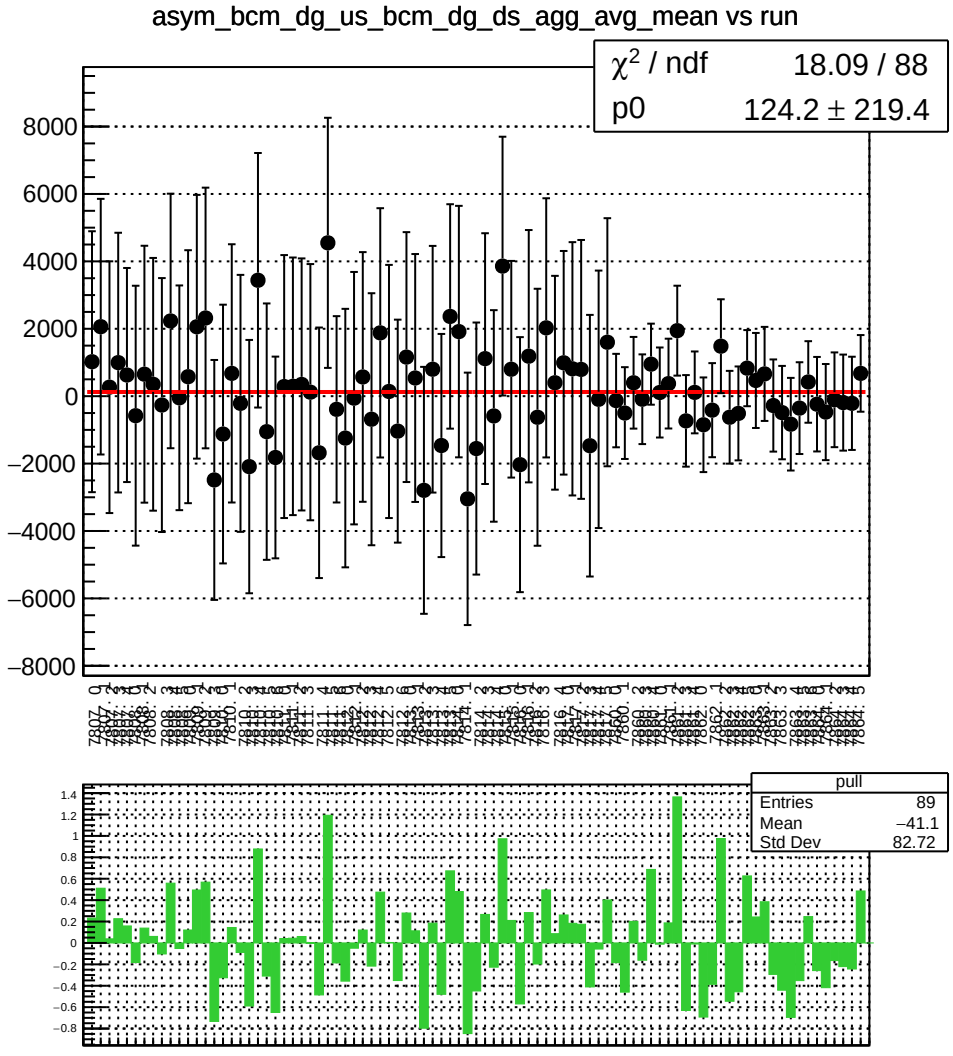

pull1D
Entries 89
Mean 0.01126
Std Dev 0.4552

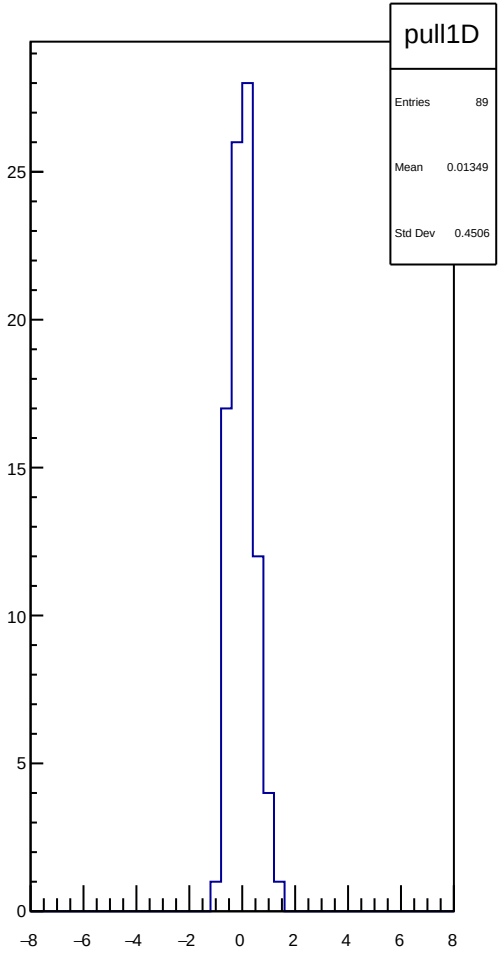

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.637e+05 / 88
p0 180.1 ± 0.1551
400
350
300
250
200
150
100

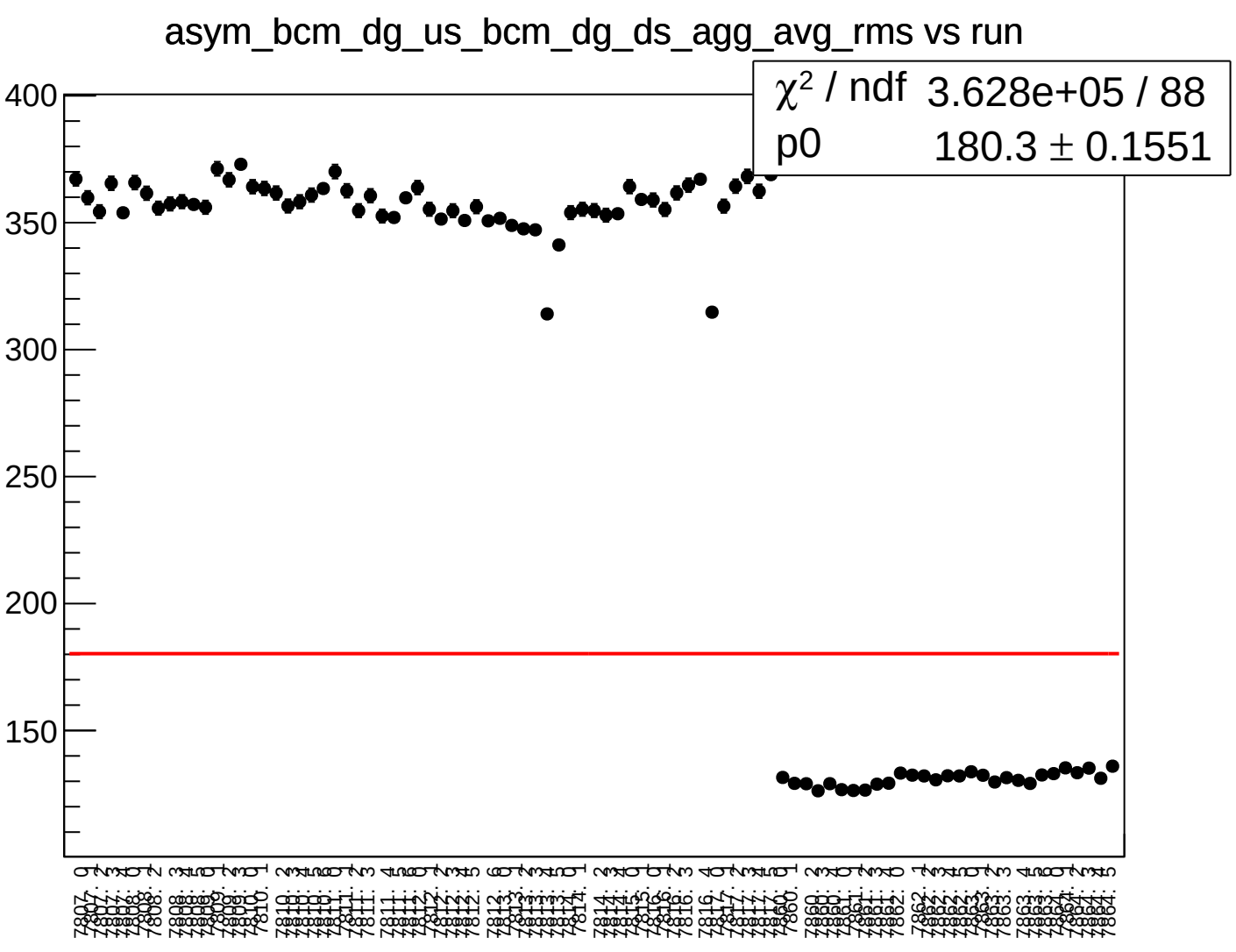

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 88 / 88
p0 −17.21± 17.89
400
200
0
−200
−400
−600
pull
Entries 89
Mean 1078
Std Dev 1033
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

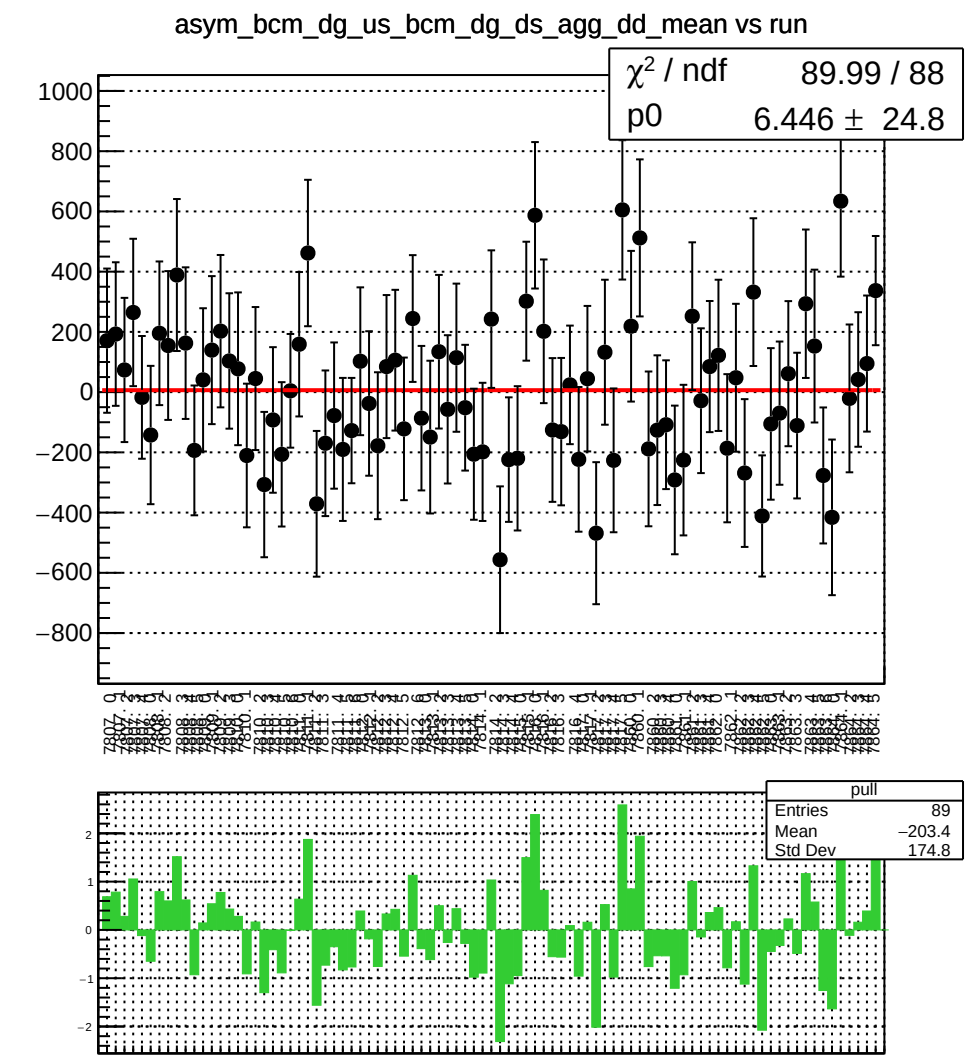

pull1D
Entries 89
Mean −0.002746
Std Dev 0.9944
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

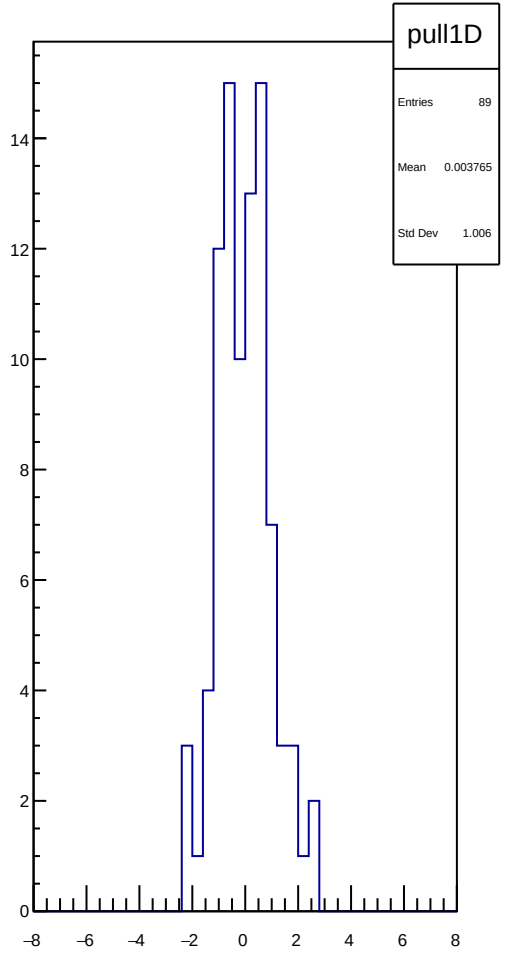

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2476 / 88
p0 16.55 ± 0.01265
18
17.5
17
16.5
16
15.5

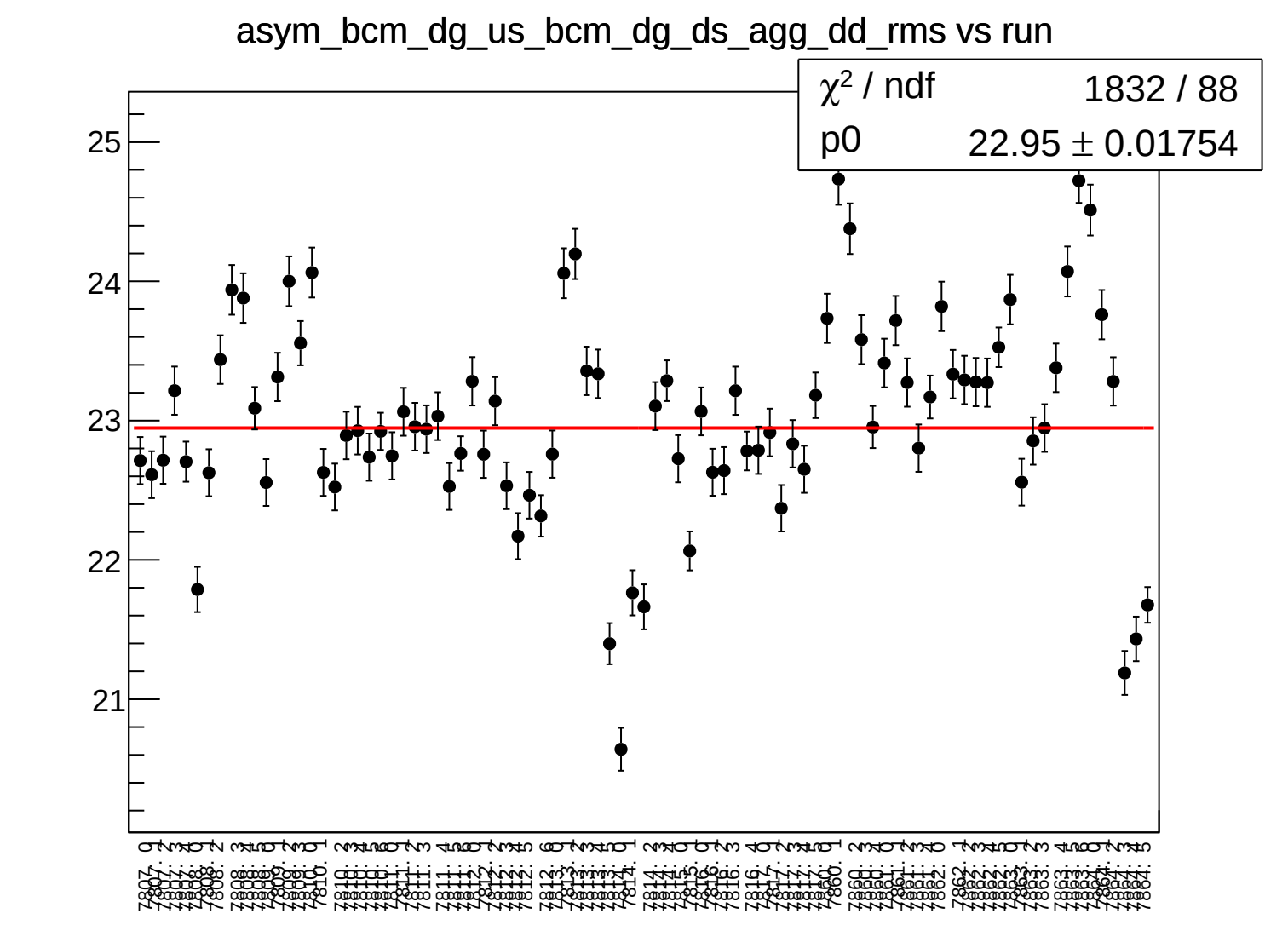

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 18.09 / 88
p0 124.2 ± 219.4
pull
Entries 89
Mean −41.1
Std Dev 82.72

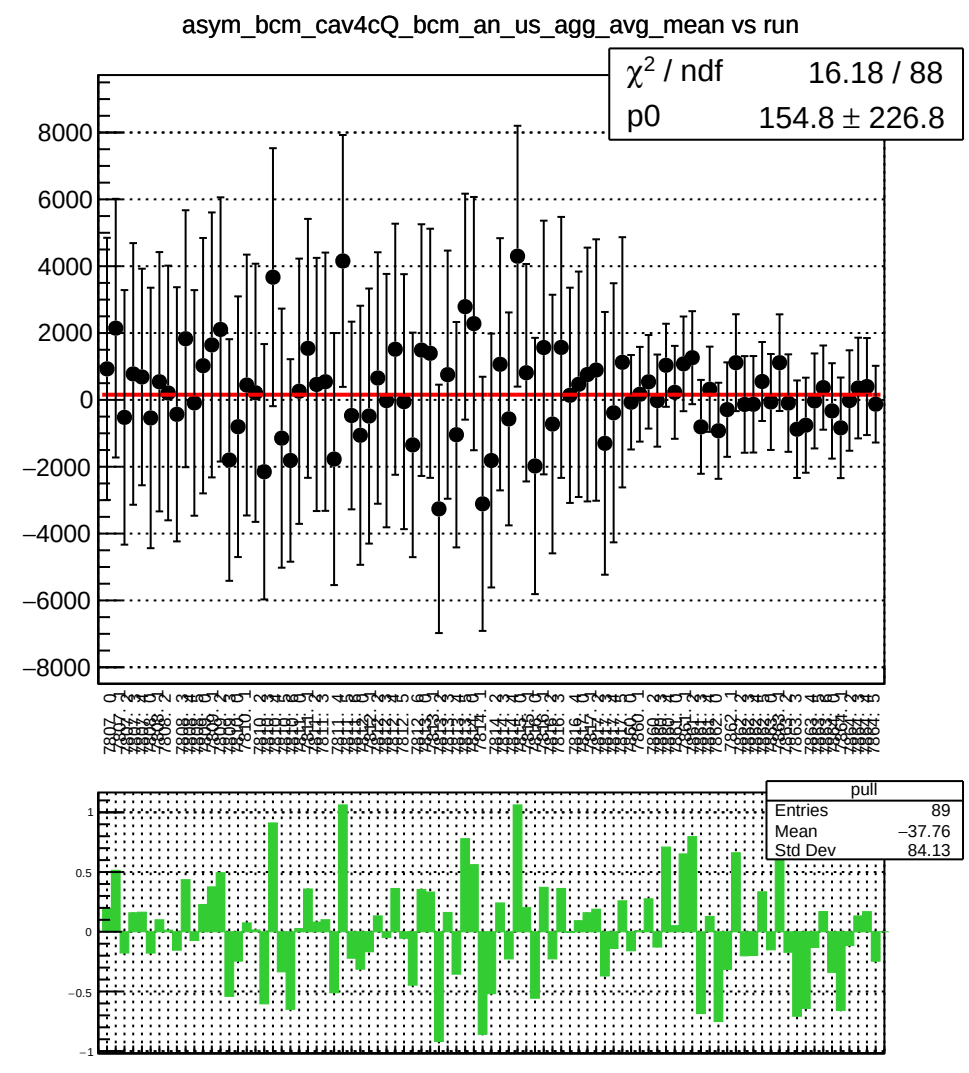

pull1D
Entries 89
Mean 0.01349
Std Dev 0.4506

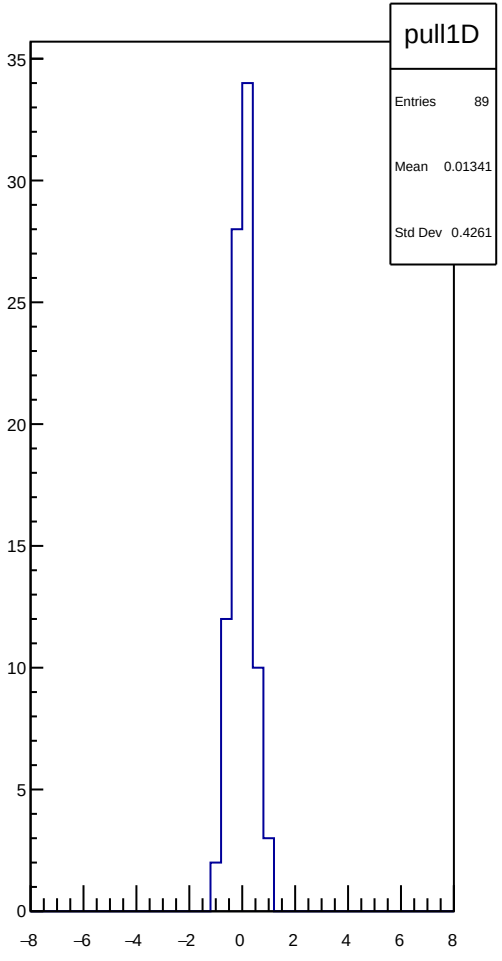

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.628e+05 / 88
p0 180.3 ± 0.1551
400
350
300
250
200
150

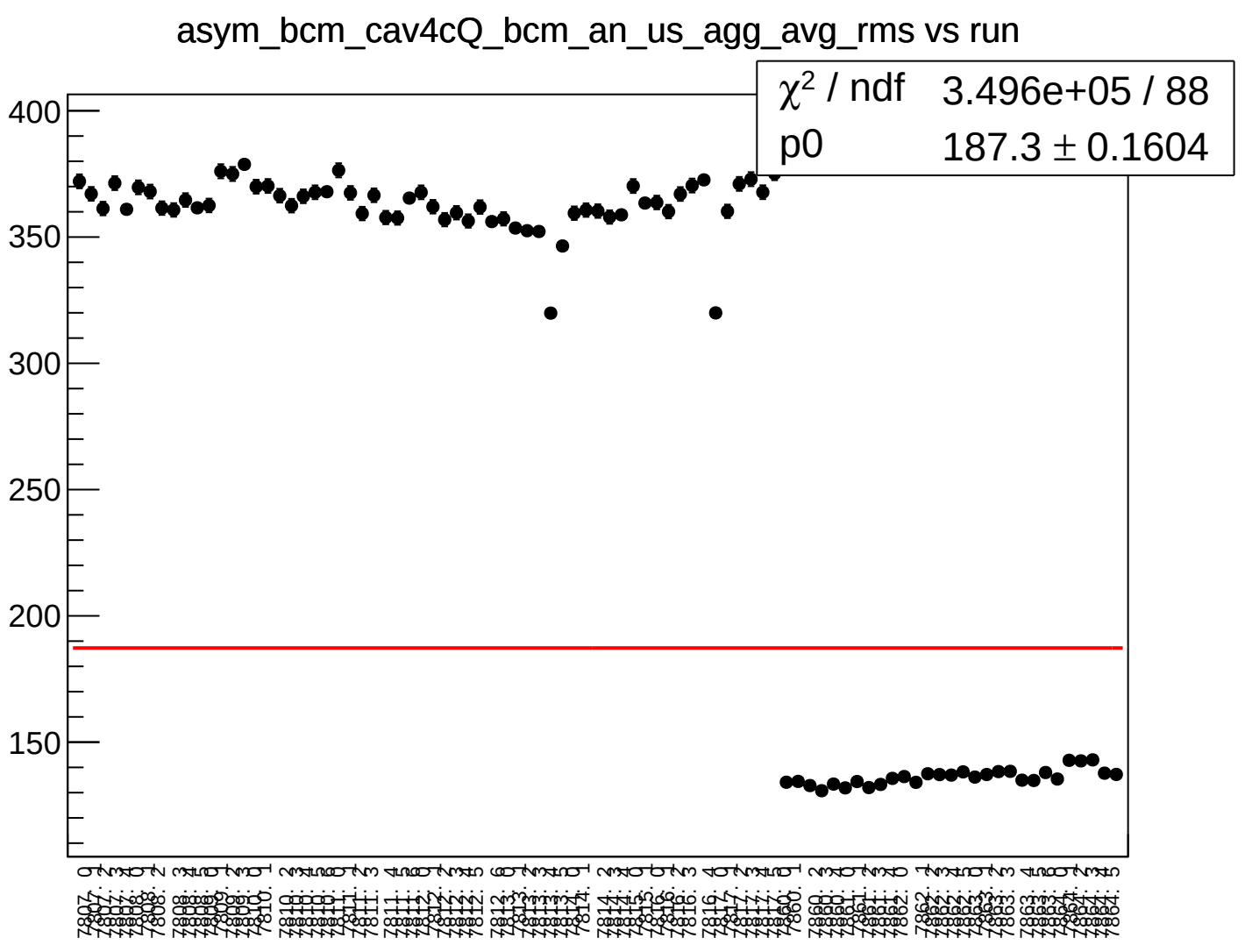

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 89.99 / 88
p0 6.446 ± 24.8
pull
Entries 89
Mean −203.4
Std Dev 174.8

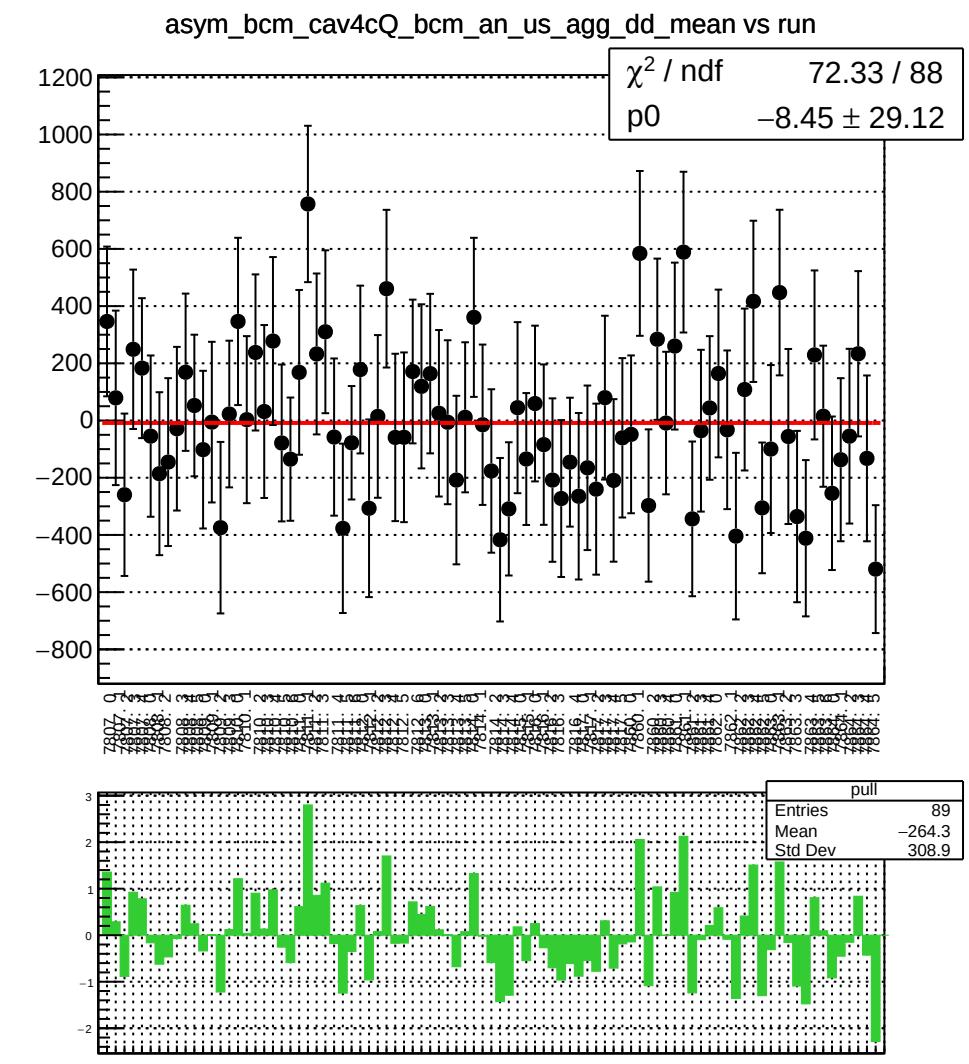

pull1D
Entries 89
Mean 0.003765
Std Dev 1.006

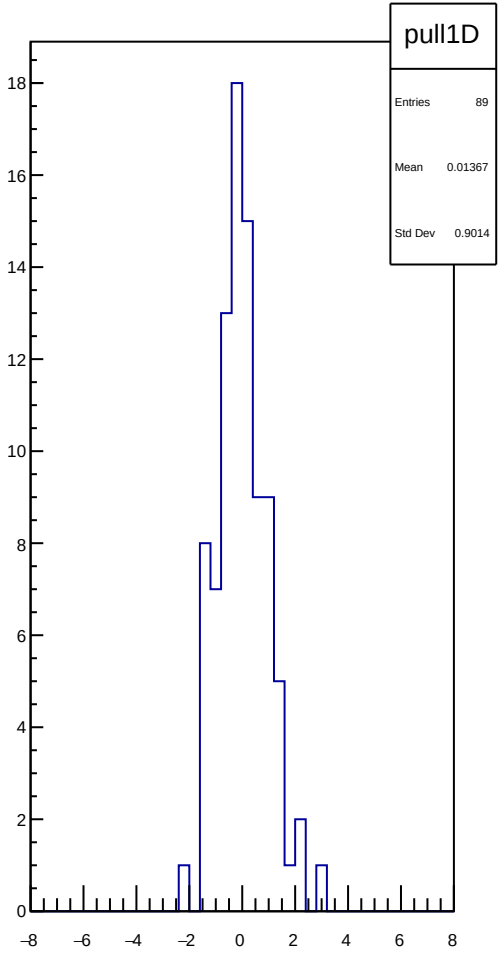

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1832 / 88
p0 22.95 ± 0.01754
25
24
23
22
21

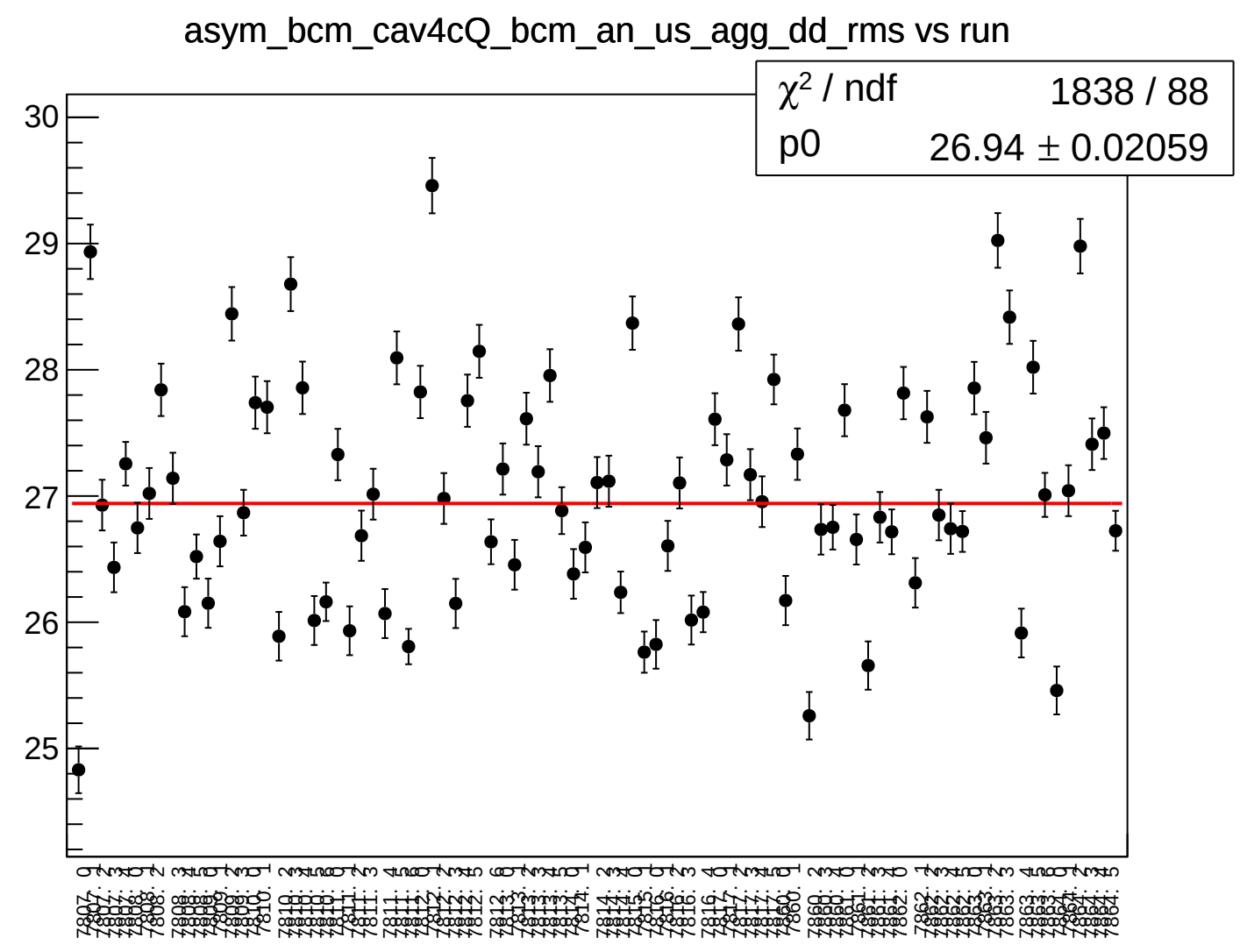

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 16.18 / 88
p0 154.8 ± 226.8
pull
Entries 89
Mean −37.76
Std Dev 84.13

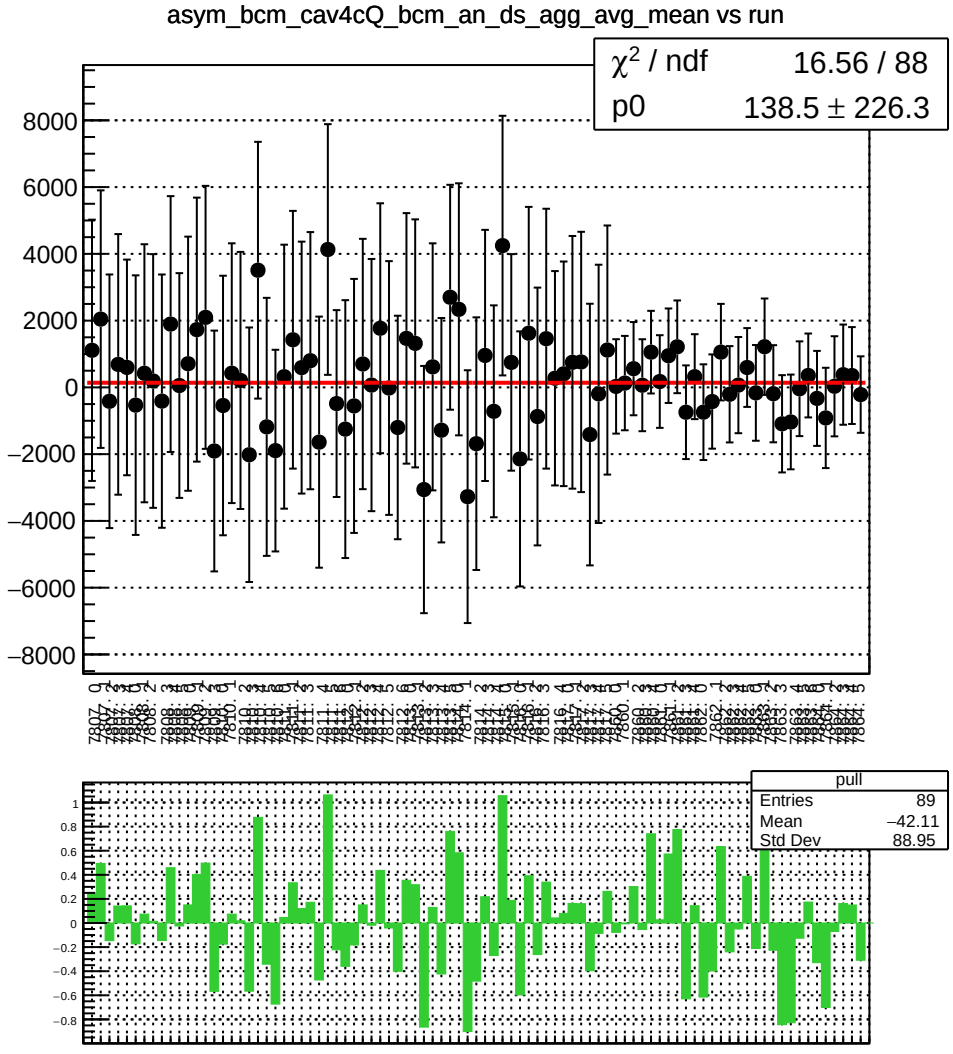

pull1D
Entries 89
Mean 0.01341
Std Dev 0.4261

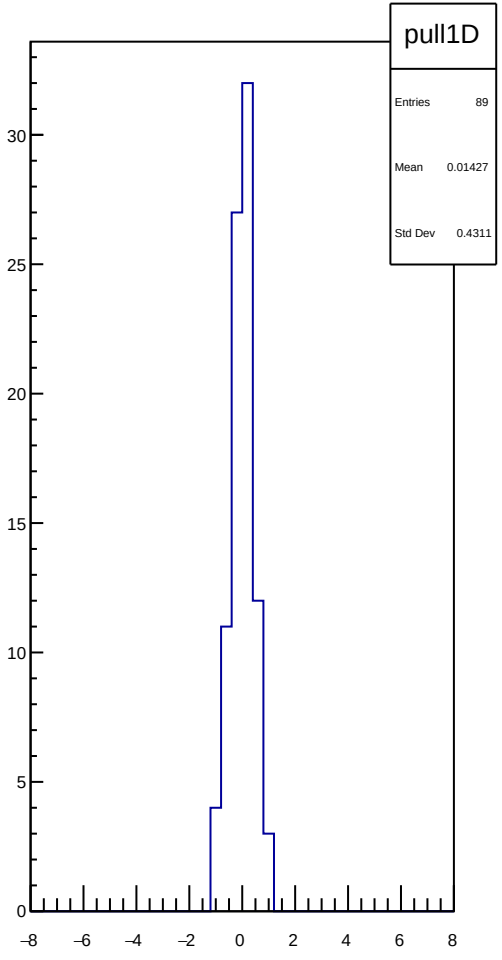

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.496e+05 / 88
p0 187.3 ± 0.1604
400
350
300
250
200
150

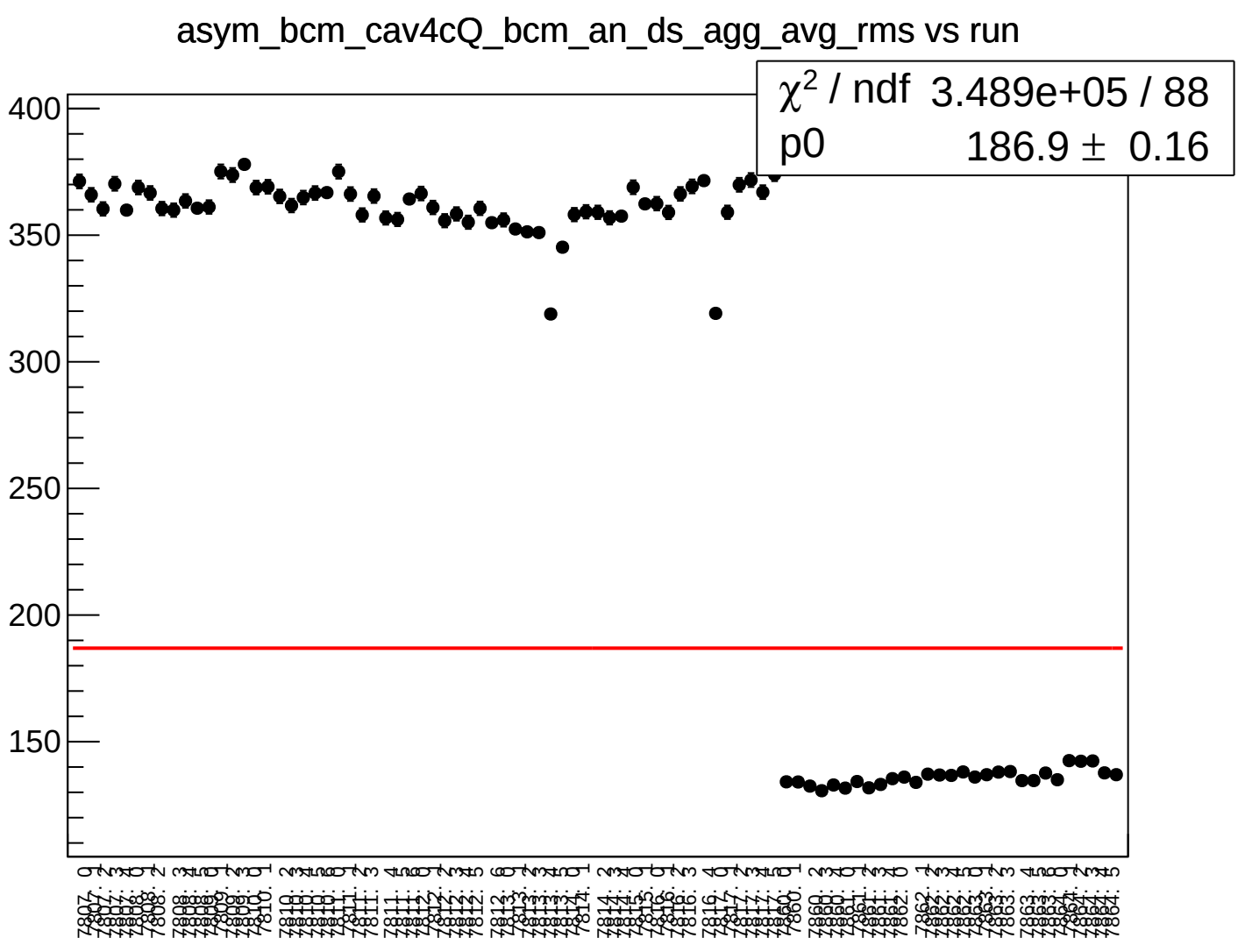

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 72.33 / 88
p0 −8.45 ± 29.12
pull
Entries 89
Mean −264.3
Std Dev 308.9

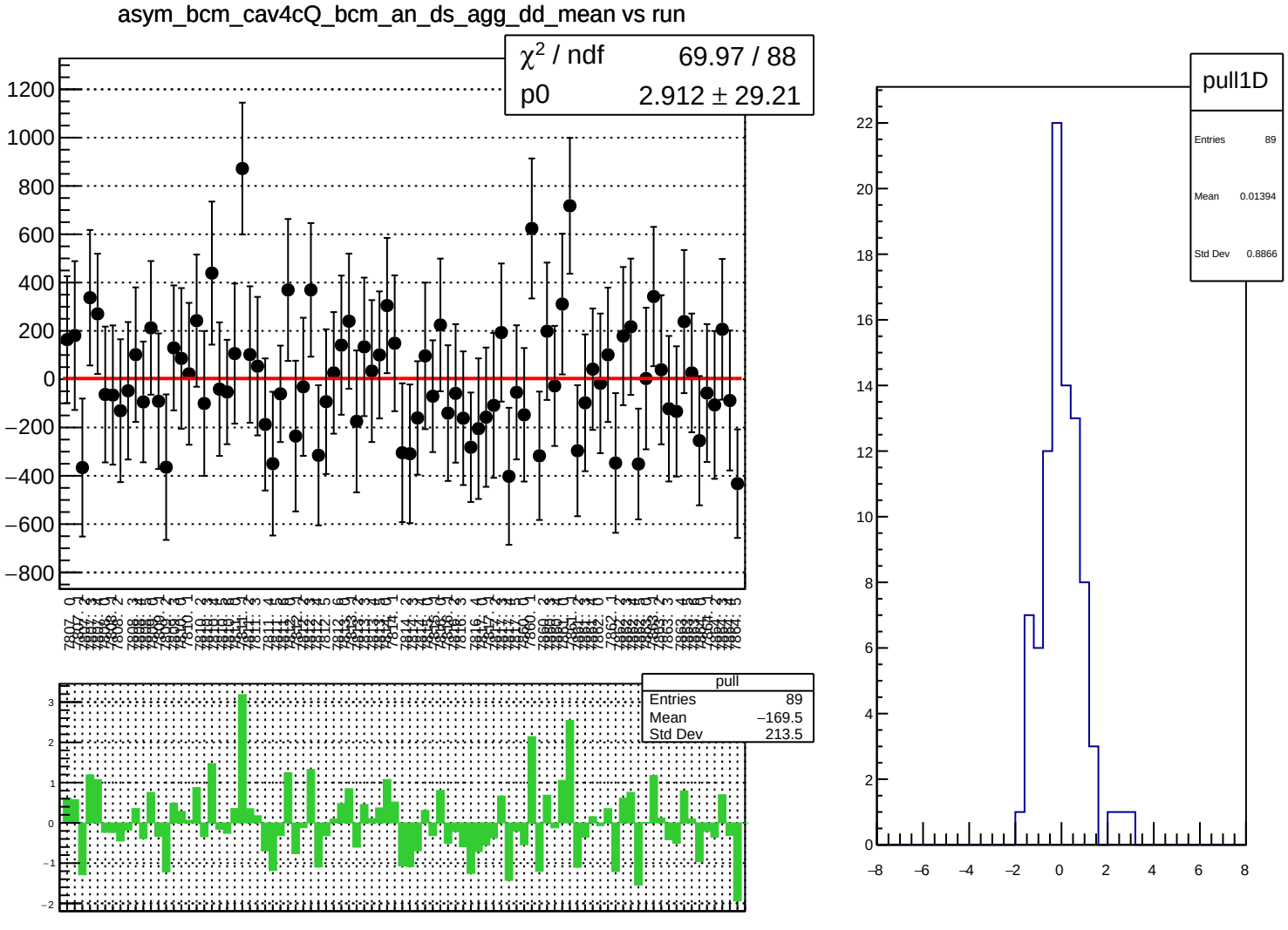

pull1D
Entries 89
Mean 0.01367
Std Dev 0.9014

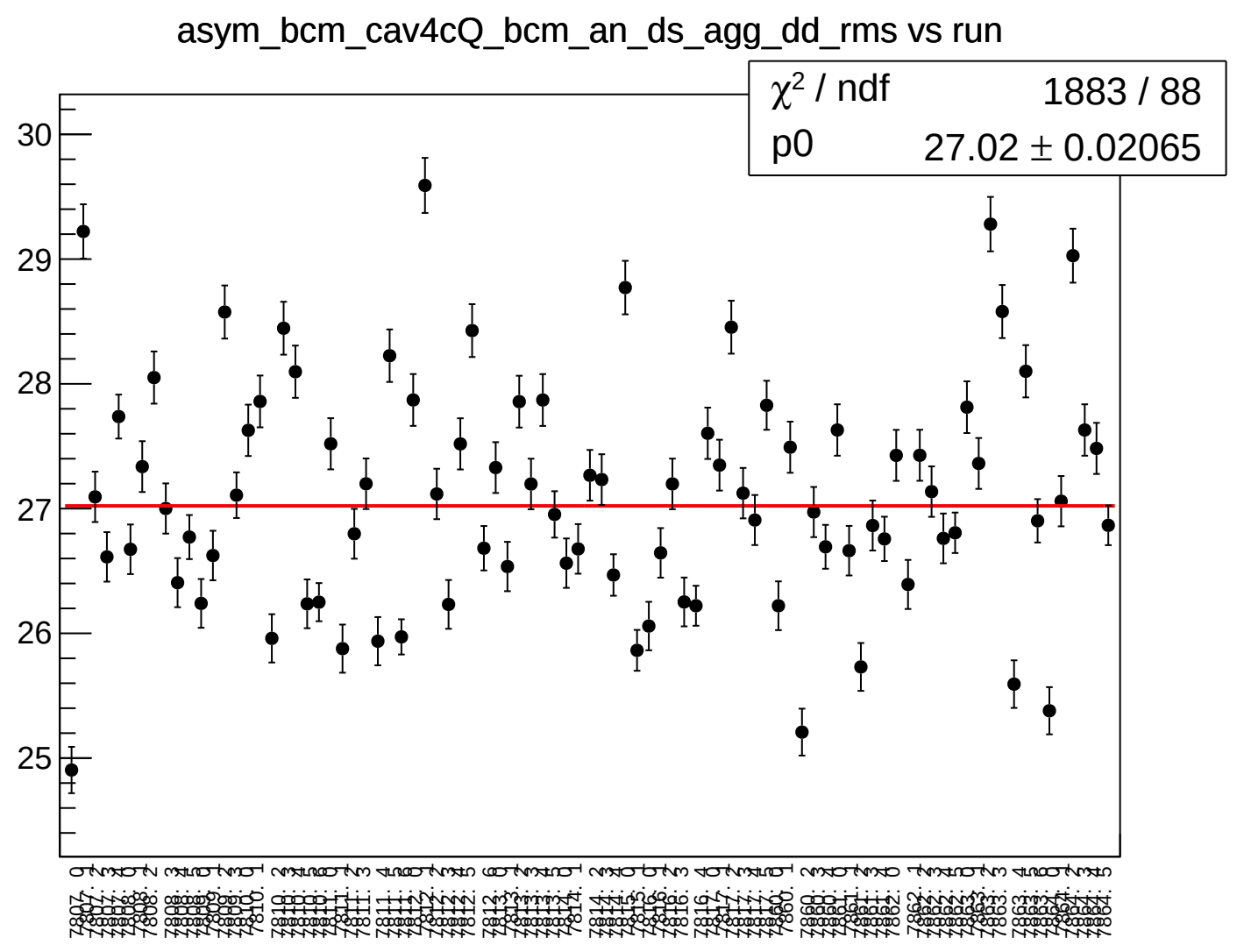

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1838 / 88
p0 26.94 ± 0.02059
30
29
28
27
26
25

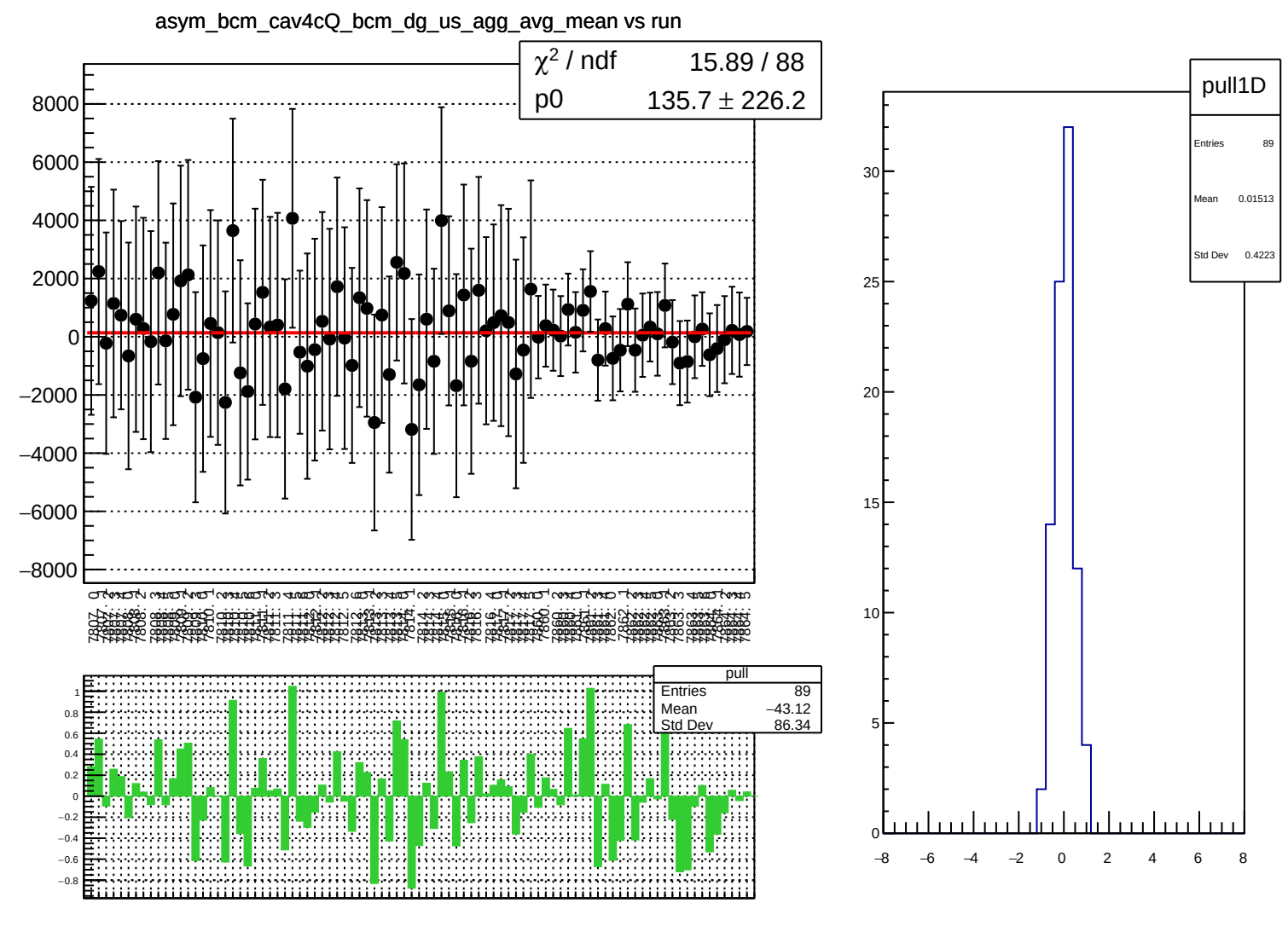

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 16.56 / 88
p0 138.5 ± 226.3
pull
Entries 89
Mean −42.11
Std Dev 88.95

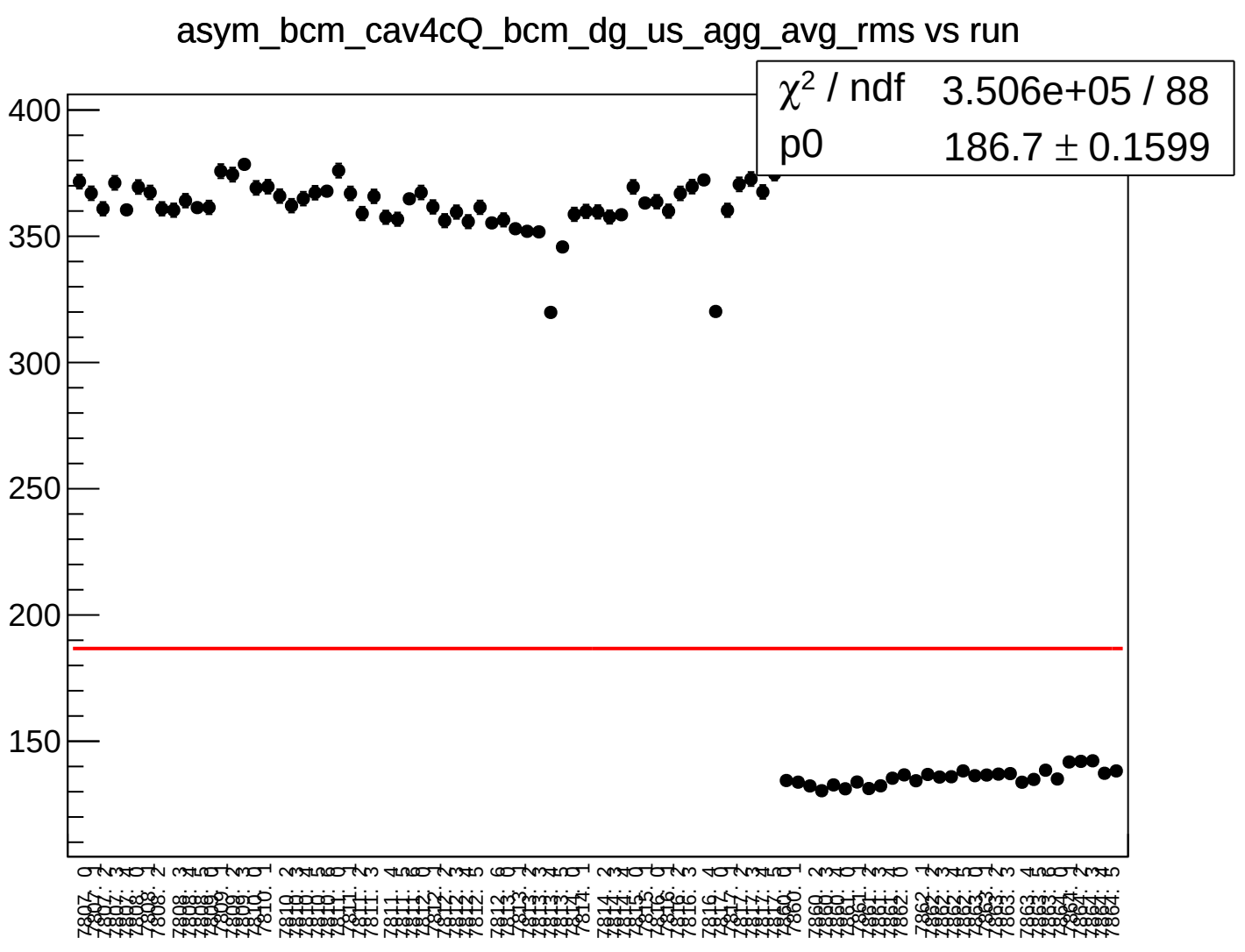

pull1D
Entries 89
Mean 0.01427
Std Dev 0.4311

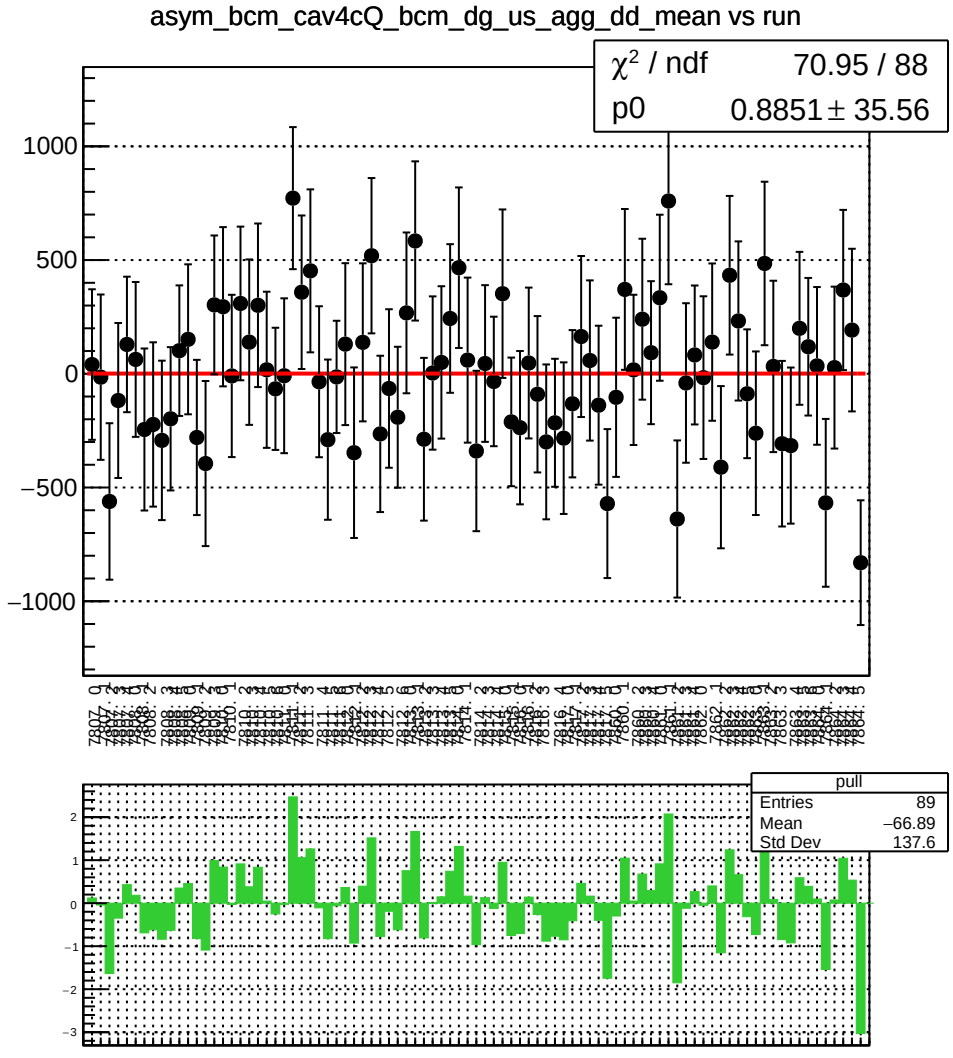

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.489e+05 / 88
p0 186.9 ± 0.16
400
350
300
250
200
150

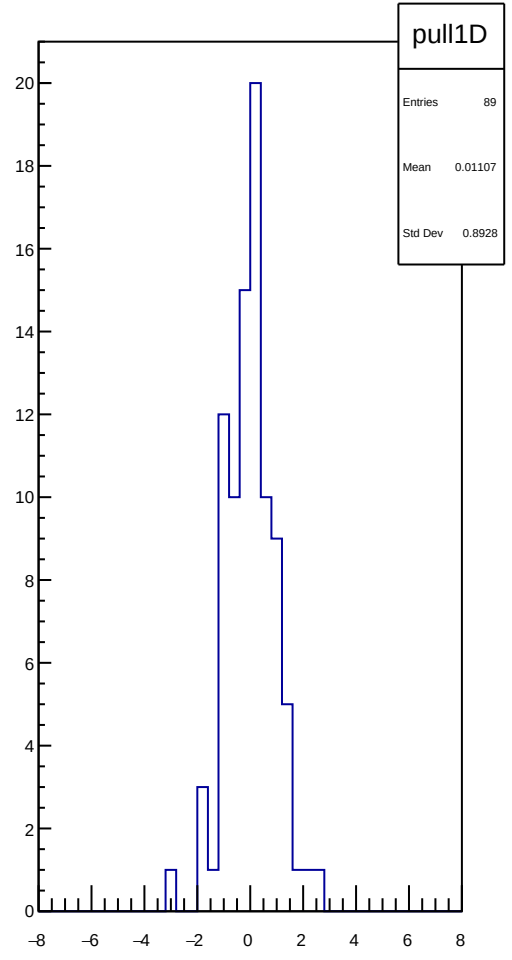

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 69.97 / 88
p0 2.912 ± 29.21
pull
Entries 89
Mean −169.5
Std Dev 213.5
pull1D
Entries 89
Mean 0.01394
Std Dev 0.8866

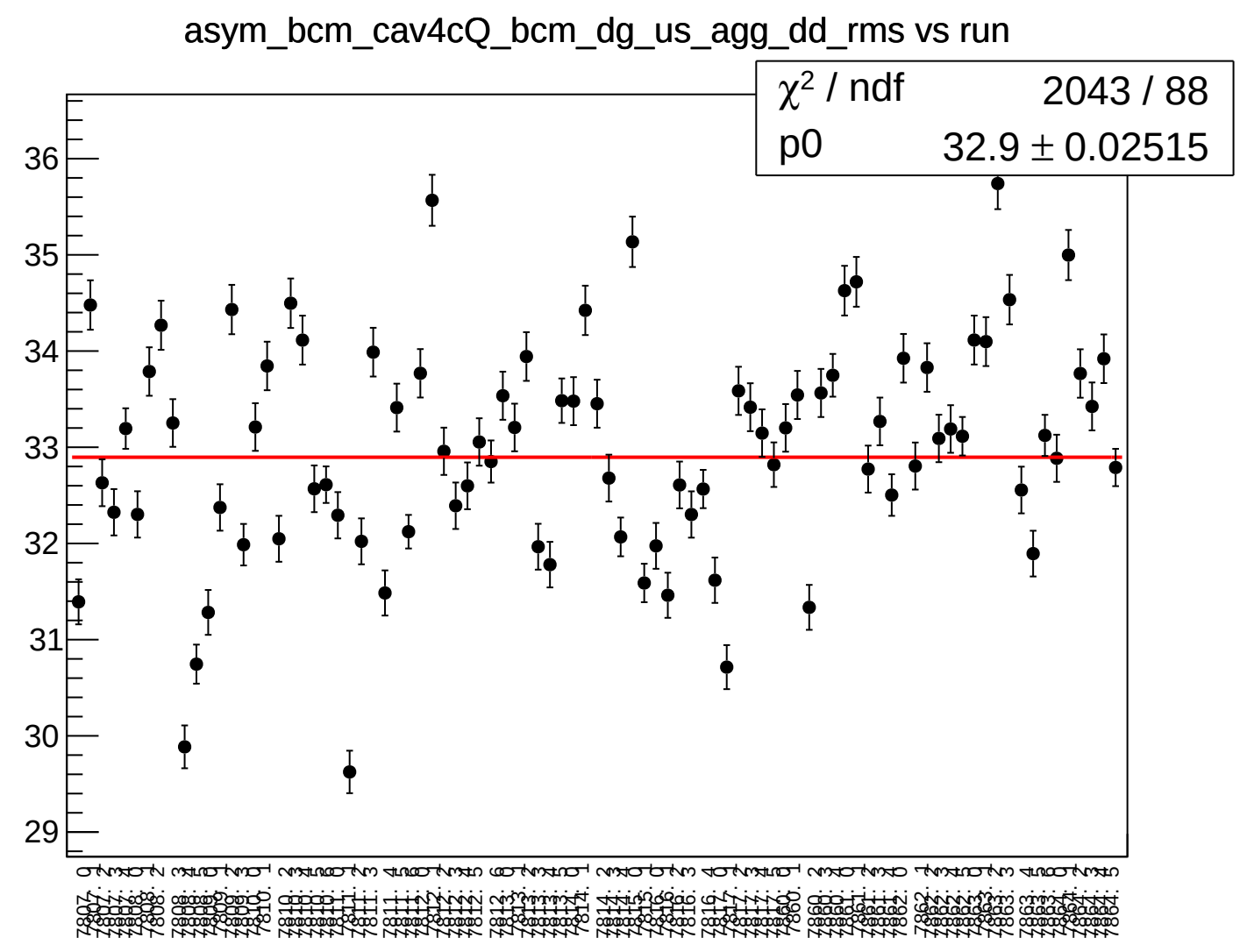

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1883 / 88
p0 27.02 ± 0.02065
30
29
28
27
26
25

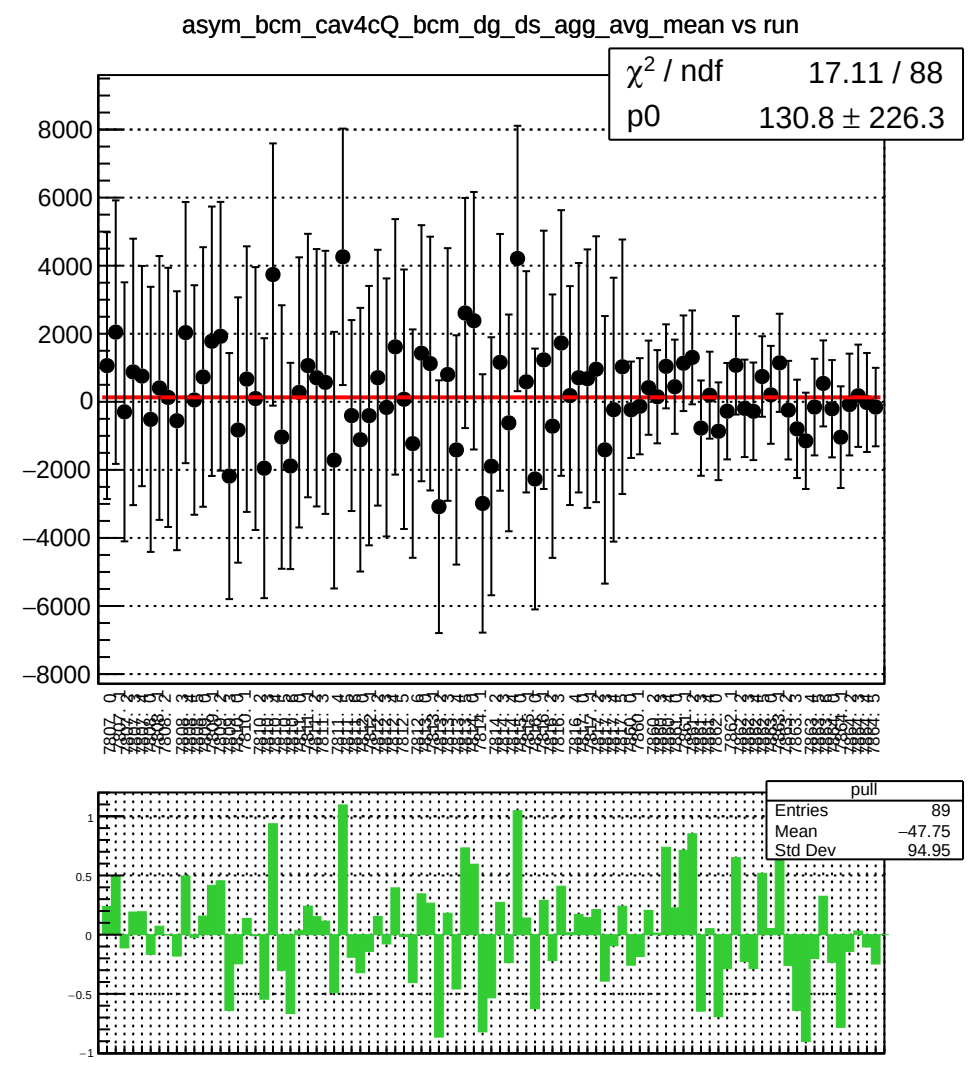

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 15.89 / 88
p0 135.7 ± 226.2
pull
Entries 89
Mean −43.12
Std Dev 86.34
pull1D
Entries 89
Mean 0.01513
Std Dev 0.4223

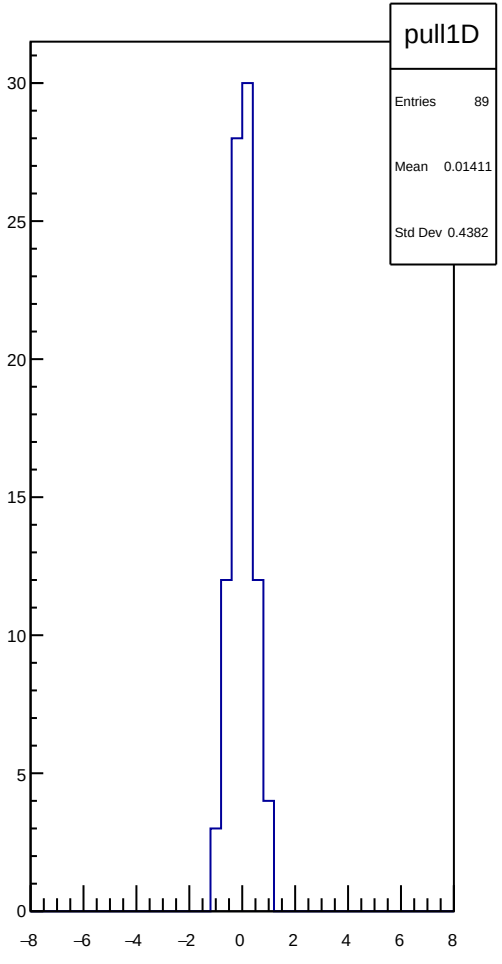

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3.506e+05 / 88
p0 186.7 ± 0.1599
400
350
300
250
200
150

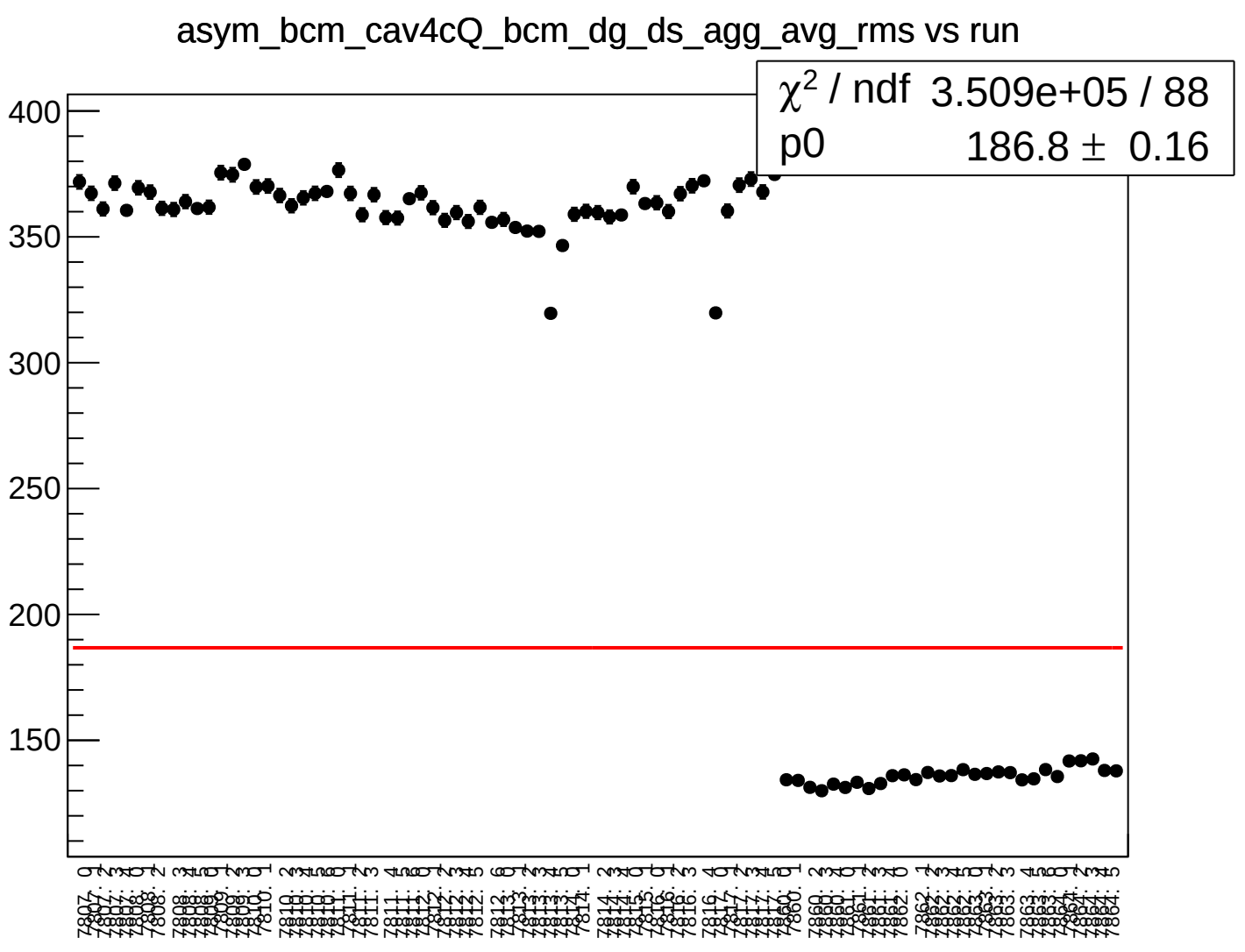

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 70.95 / 88
p0 0.8851 ± 35.56
1000
500
0
−500
−1000
pull
Entries 89
Mean −66.89
Std Dev 137.6
2
1
0
−1
−2
−3

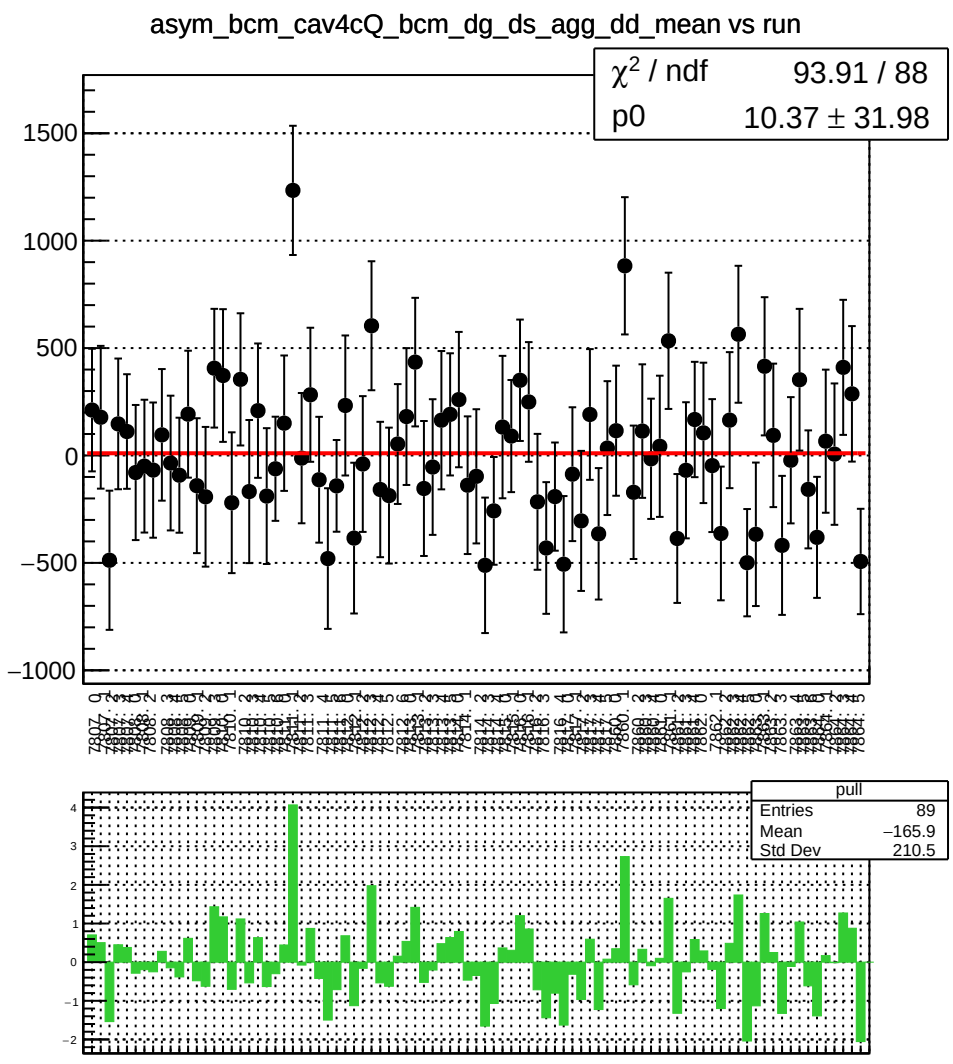

pull1D
Entries 89
Mean 0.01107
Std Dev 0.8928
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

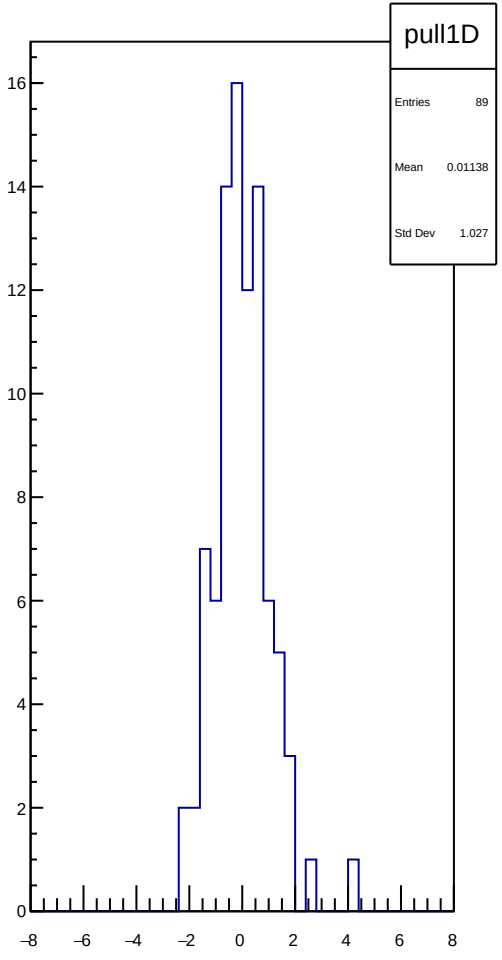

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2043 / 88
p0 32.9 ± 0.02515
36
35
34
33
32
31
30
29

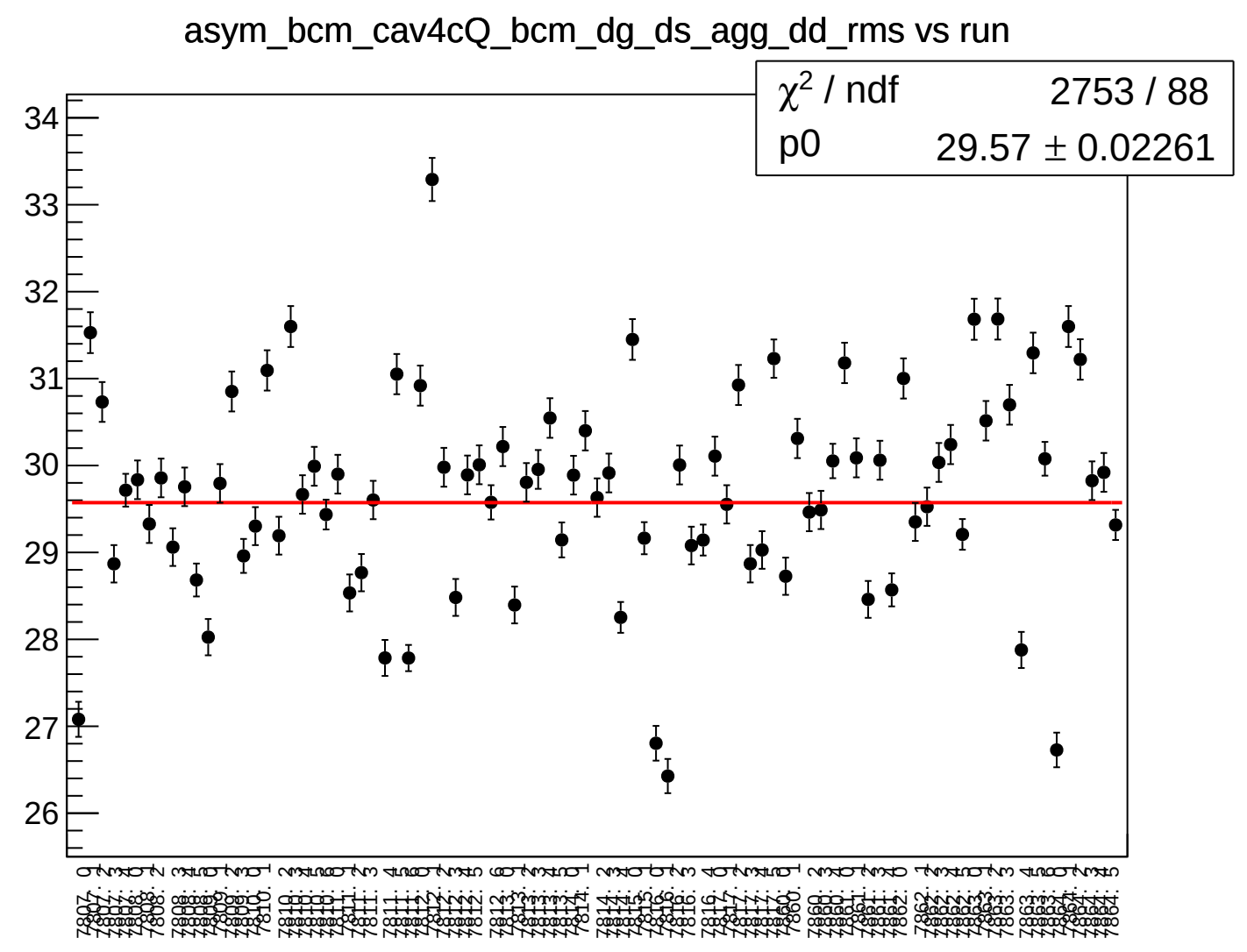

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 17.11 / 88
p0 130.8 ± 226.3
pull
Entries 89
Mean −47.75
Std Dev 94.95

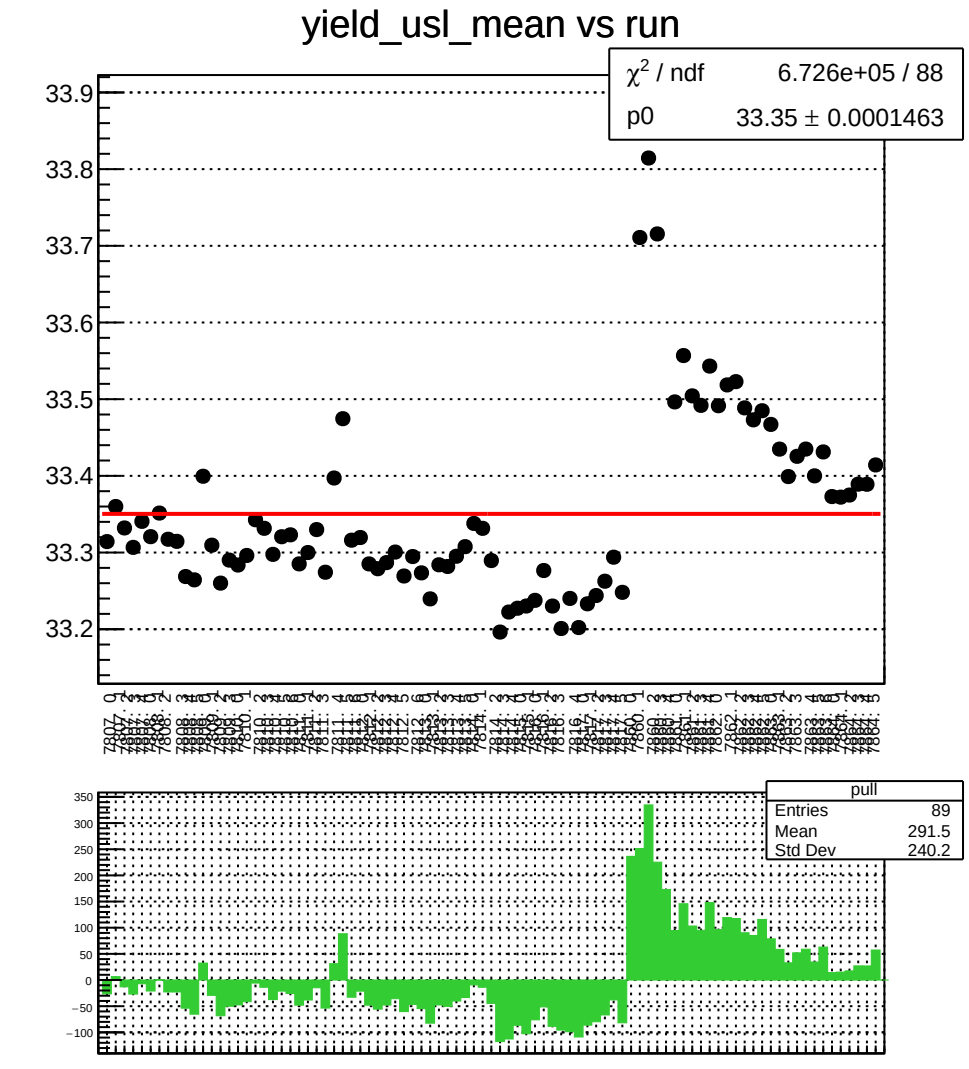

pull1D
Entries 89
Mean 0.01411
Std Dev 0.4382

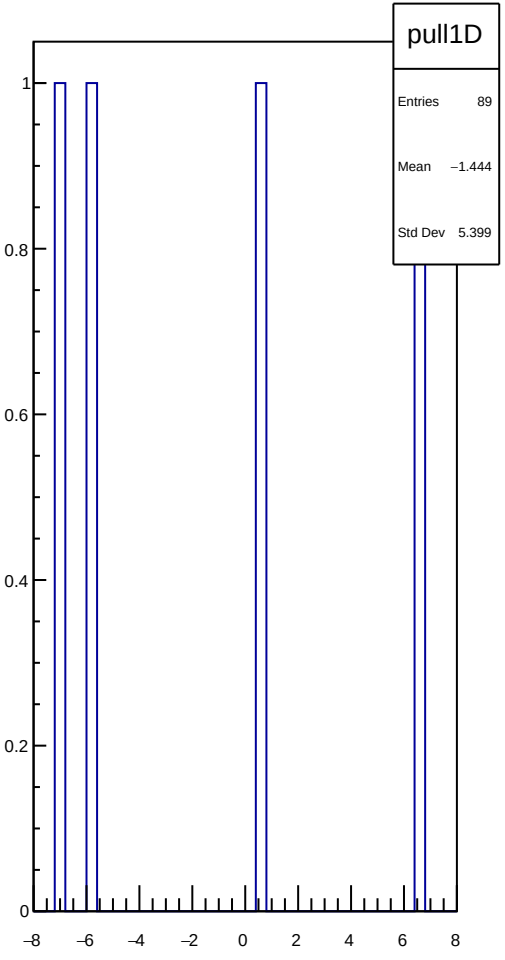

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.509e+05 / 88
p0 186.8 ± 0.16
400
350
300
250
200
150

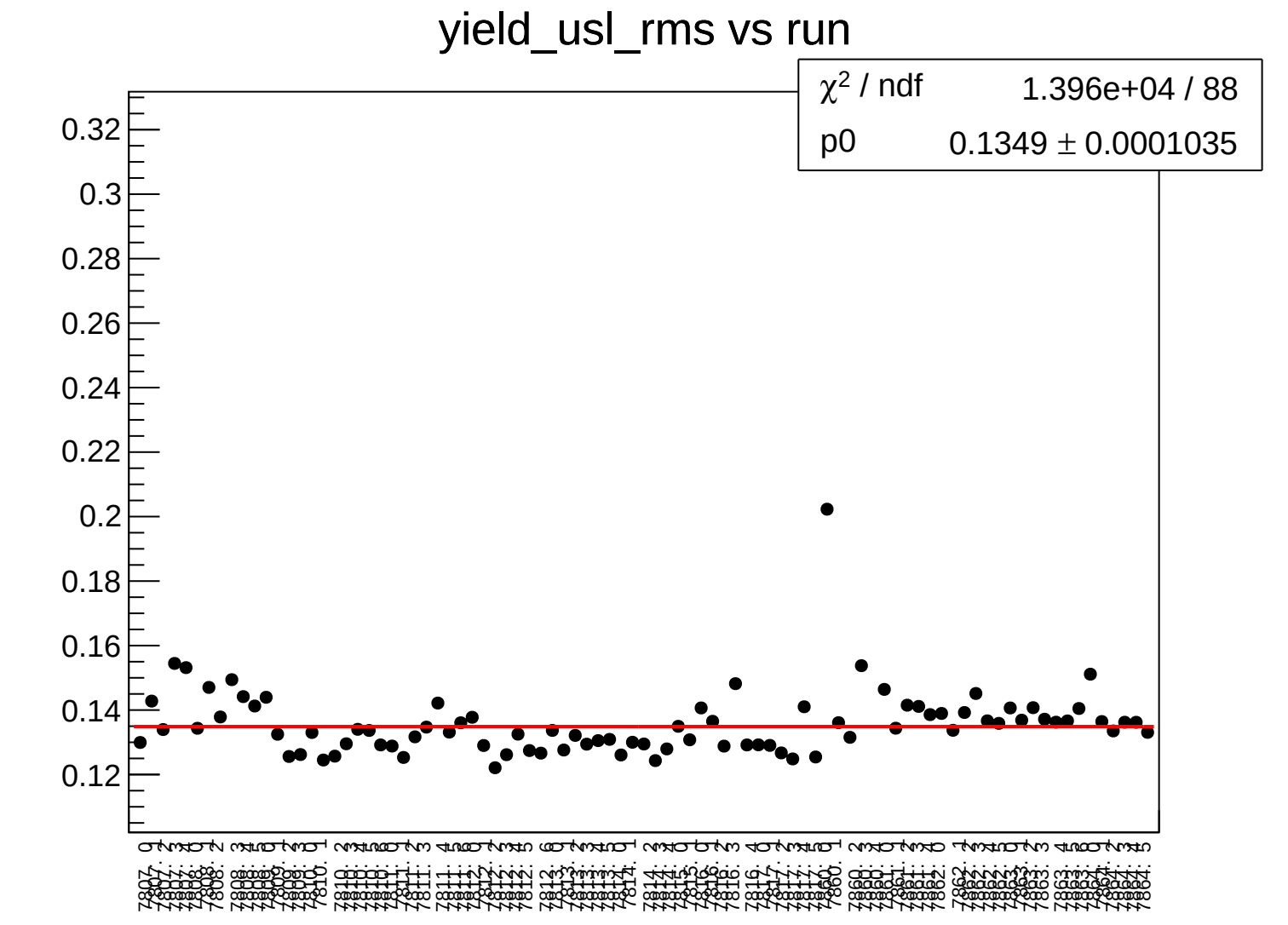

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 93.91 / 88
p0 10.37 ± 31.98
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean −165.9
Std Dev 210.5
4
3
2
1
0
−1
−2

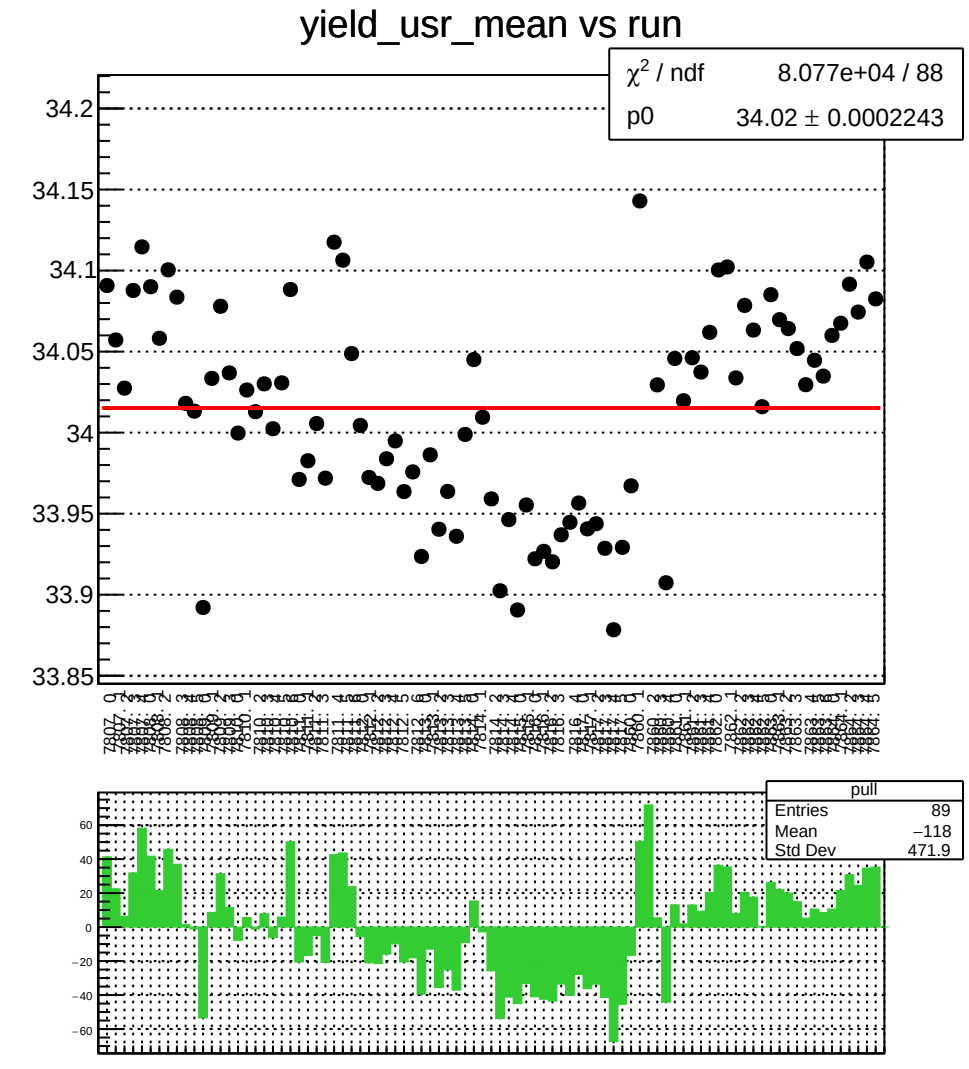

pull1D
Entries 89
Mean 0.01138
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

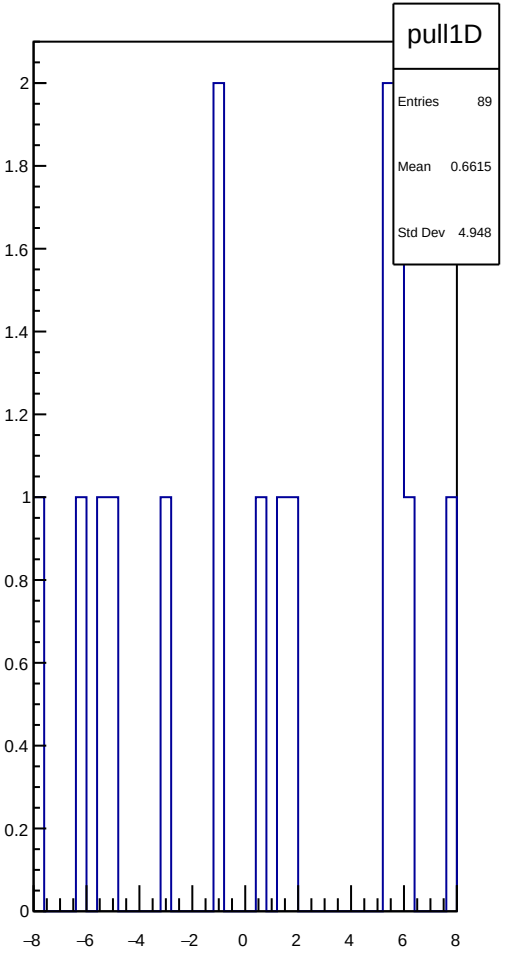

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2753 / 88
p0 29.57 ± 0.02261
34
33
32
31
30
29
28
27
26

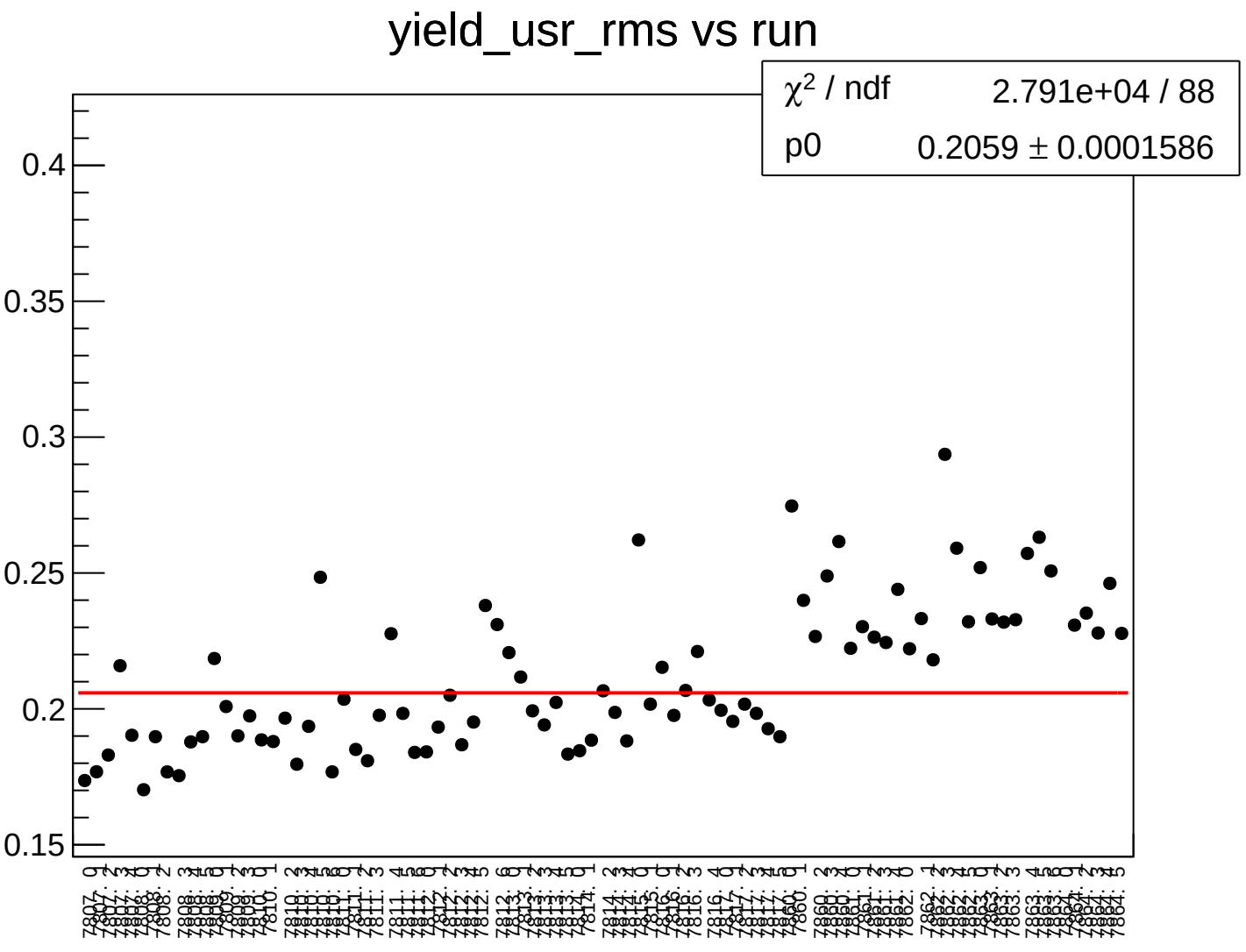

yield_usl_mean vs run
χ² / ndf 6.726e+05 / 88
p0 33.35 ± 0.0001463
33.9
33.8
33.7
33.6
33.5
33.4
33.3
33.2
pull
Entries 89
Mean 291.5
Std Dev 240.2
350
300
250
200
150
100
50
0
−50
−100

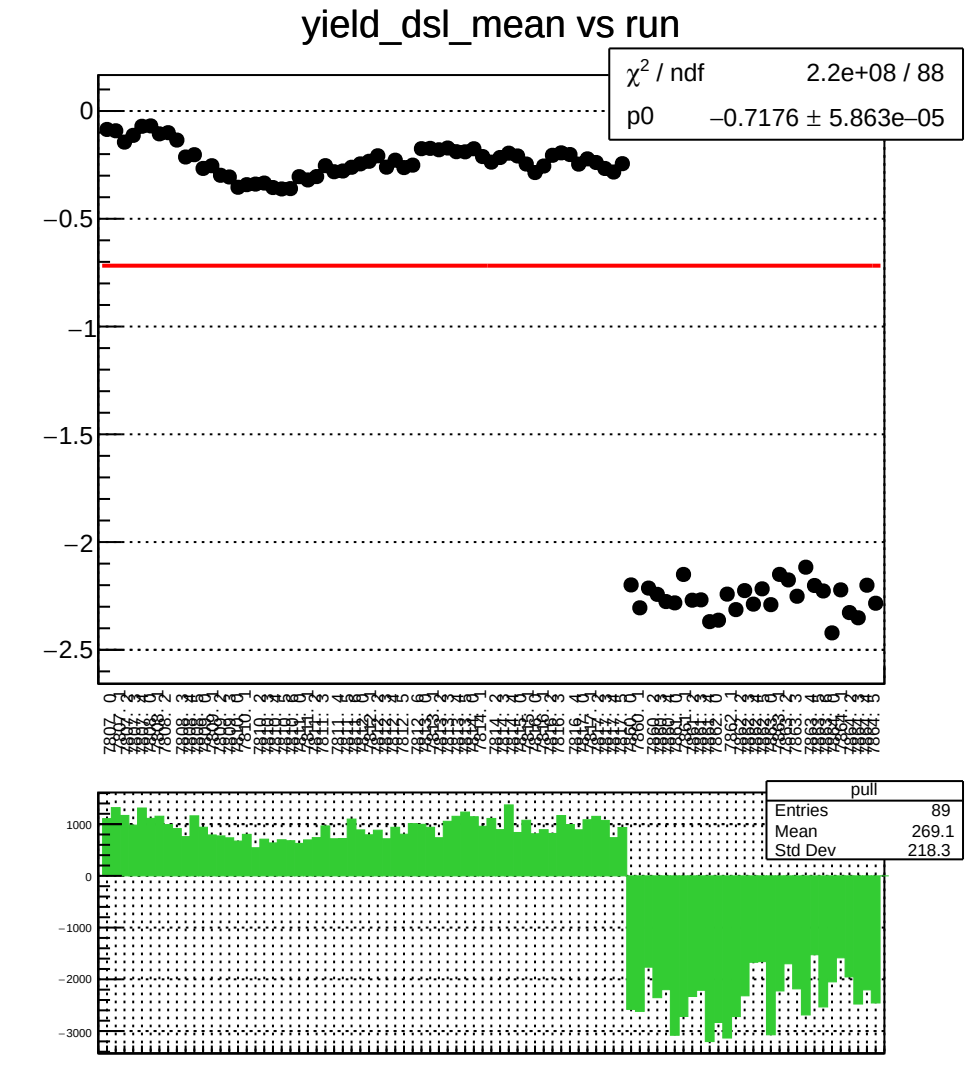

pull1D
Entries 89
Mean −1.444
Std Dev 5.399
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

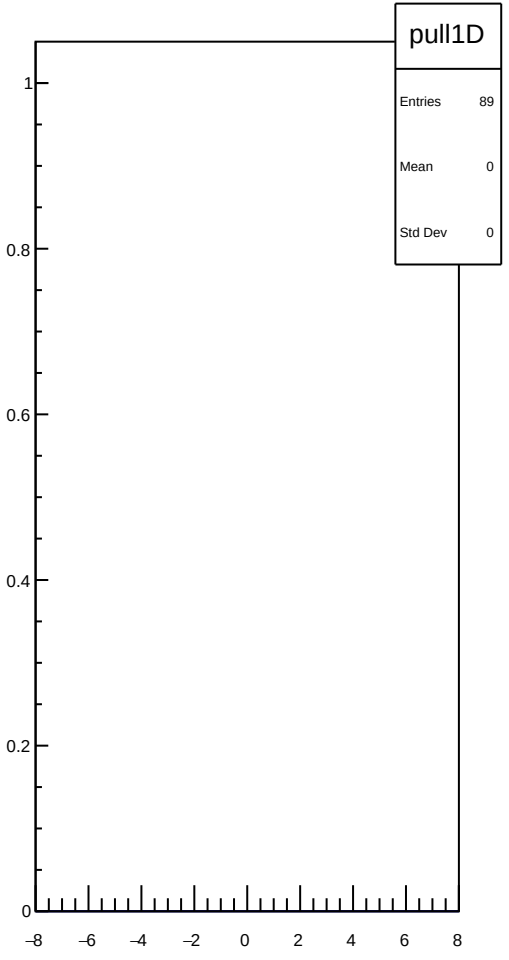

yield_usl_rms vs run
χ² / ndf 1.396e+04 / 88
p0 0.1349 ± 0.0001035
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12

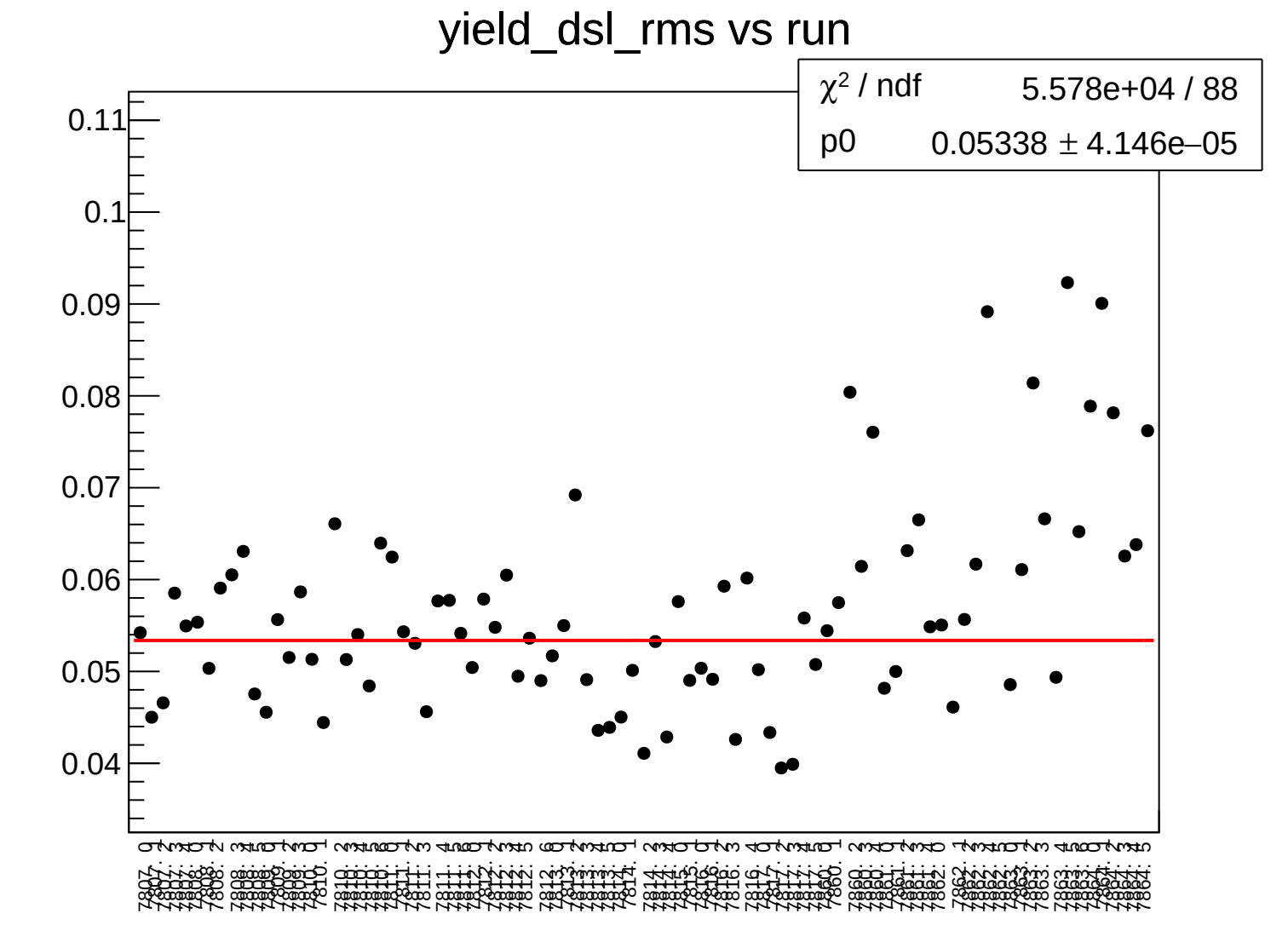

yield_usr_mean vs run
χ² / ndf 8.077e+04 / 88
p0 34.02 ± 0.0002243
34.2
34.15
34.1
34.05
34
33.95
33.9
33.85
pull
Entries 89
Mean −118
Std Dev 471.9
60
40
20
0
−20
−40
−60

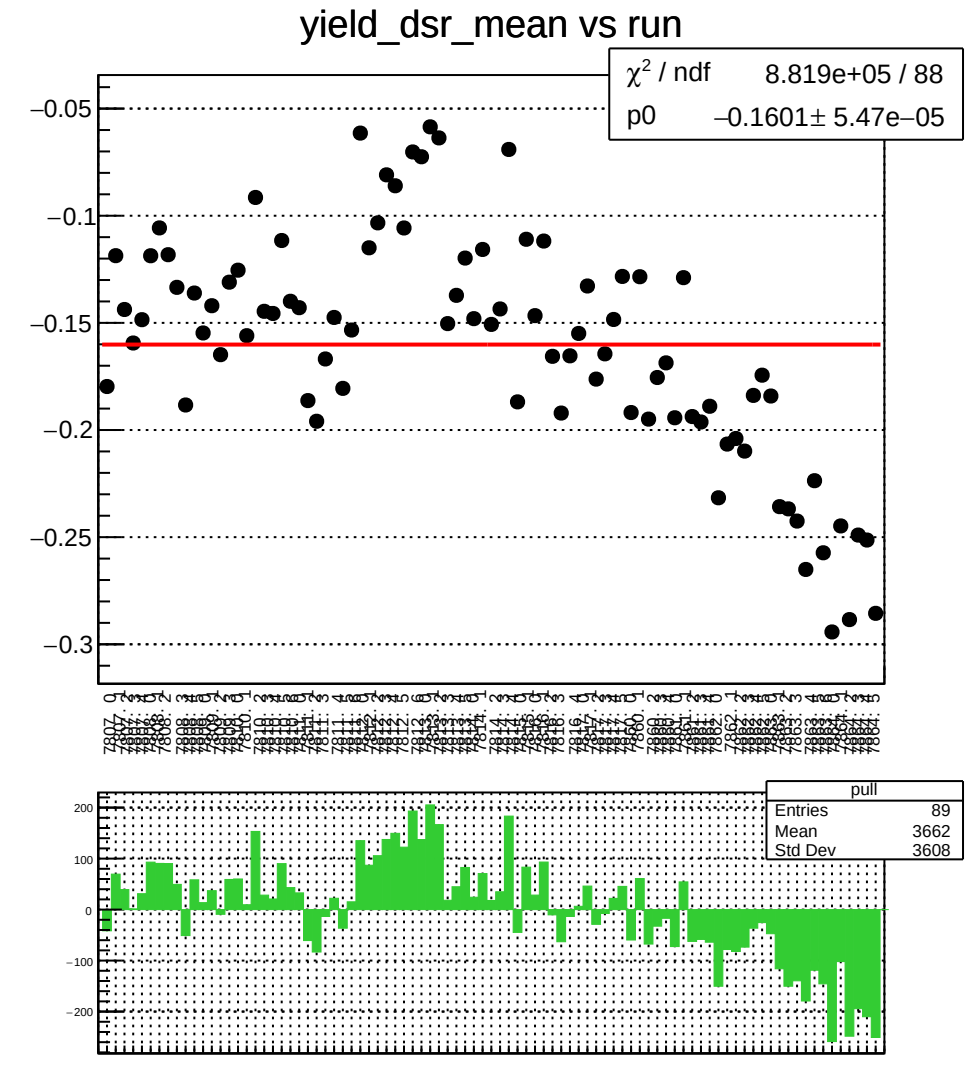

pull1D
Entries 89
Mean 0.6615
Std Dev 4.948
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

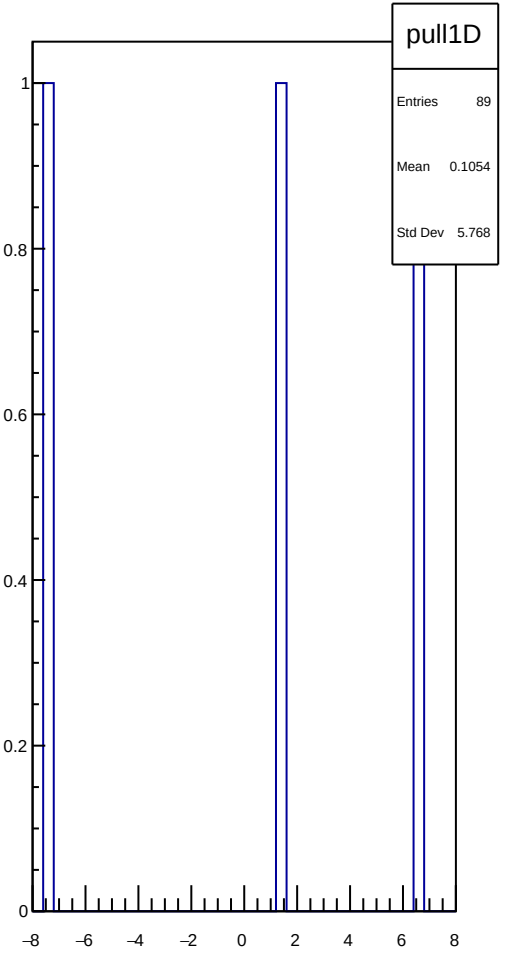

yield_usr_rms vs run
χ² / ndf 2.791e+04 / 88
p0 0.2059 ± 0.0001586
0.4
0.35
0.3
0.25
0.2
0.15

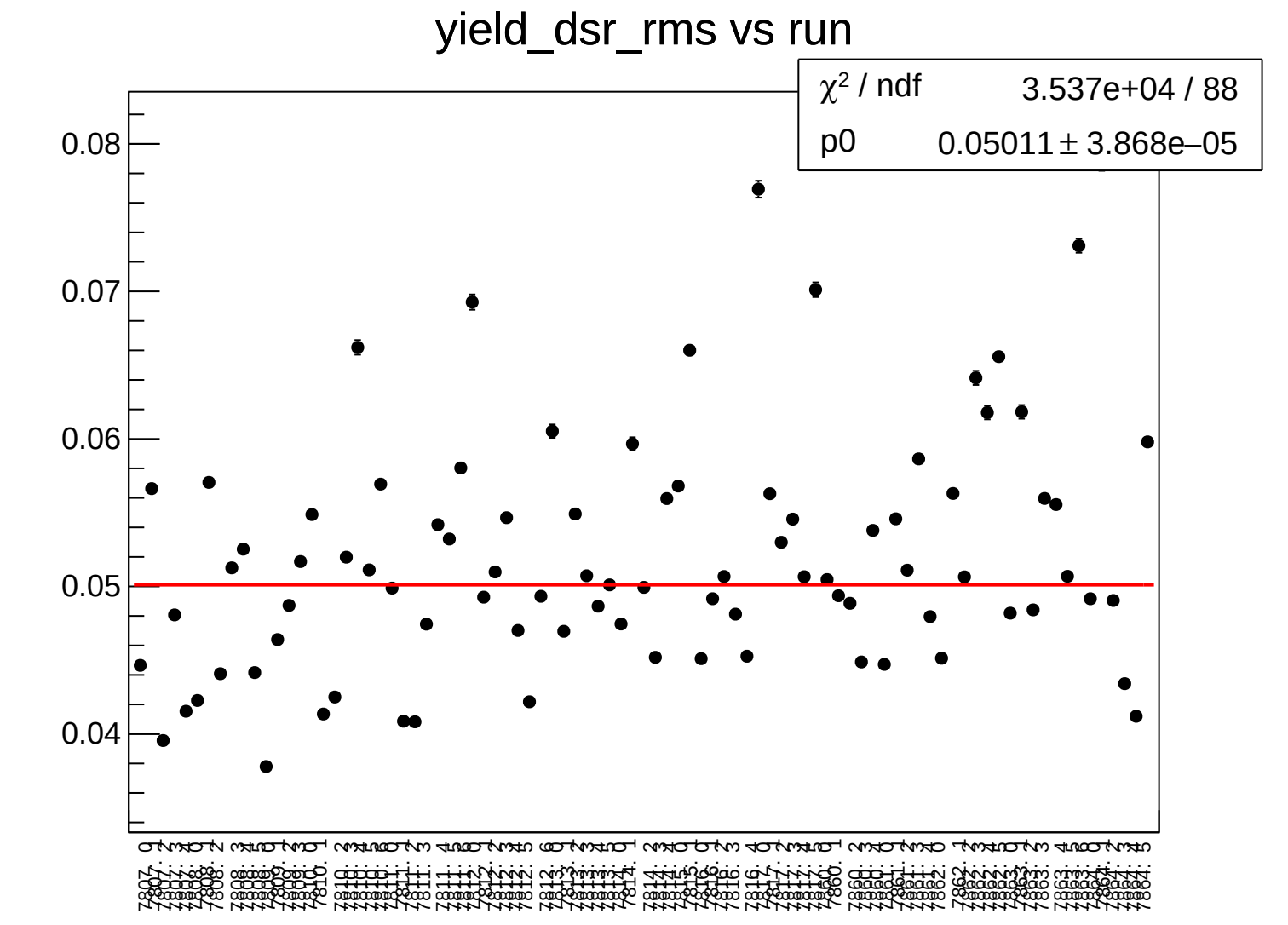

yield_dsl_mean vs run
χ² / ndf 2.2e+08 / 88
p0 −0.7176 ± 5.863e−05
0
−0.5
−1
−1.5
−2
−2.5
pull
Entries 89
Mean 269.1
Std Dev 218.3
1000
0
−1000
−2000
−3000

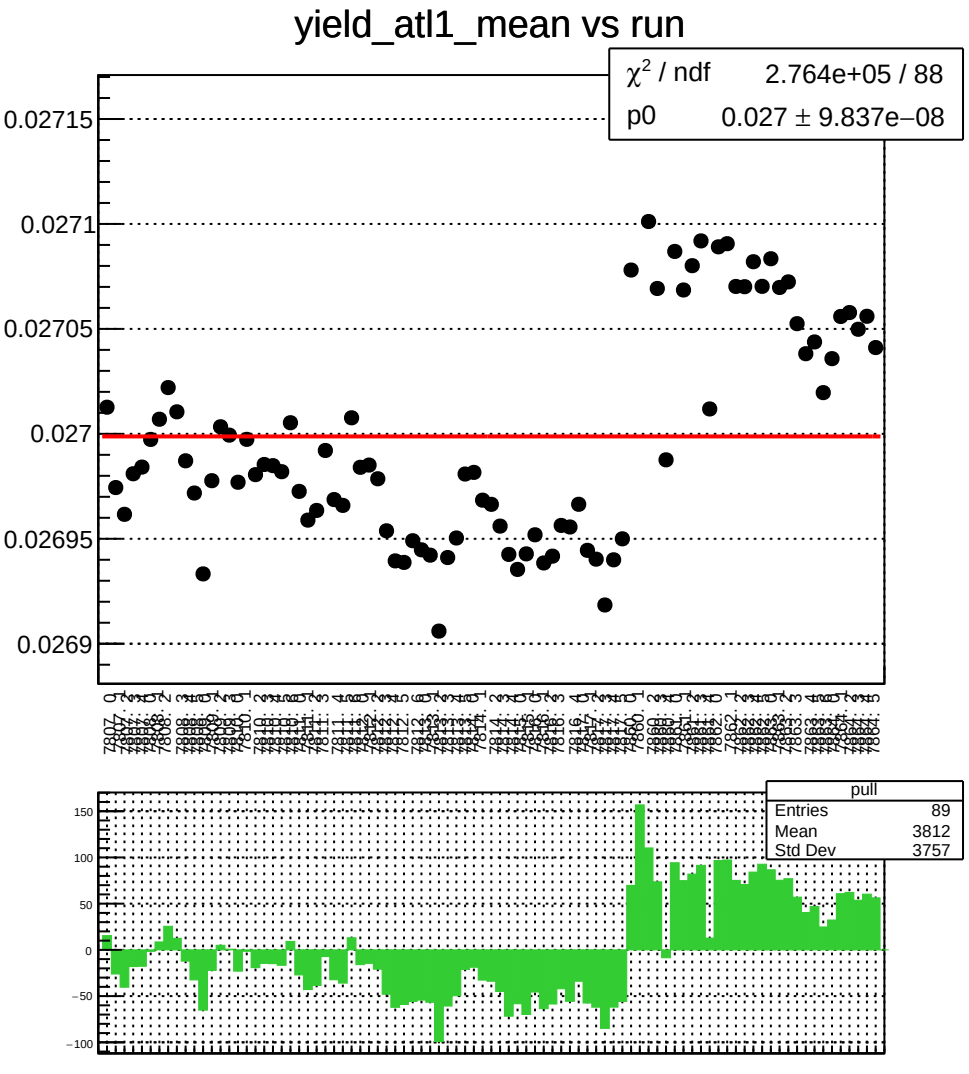

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

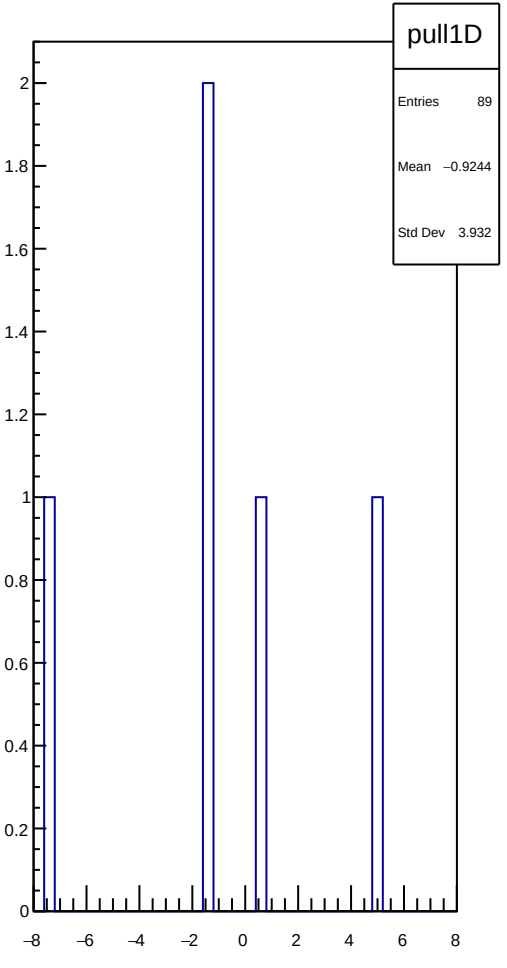

yield_dsl_rms vs run
χ² / ndf 5.578e+04 / 88
p0 0.05338 ± 4.146e–05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

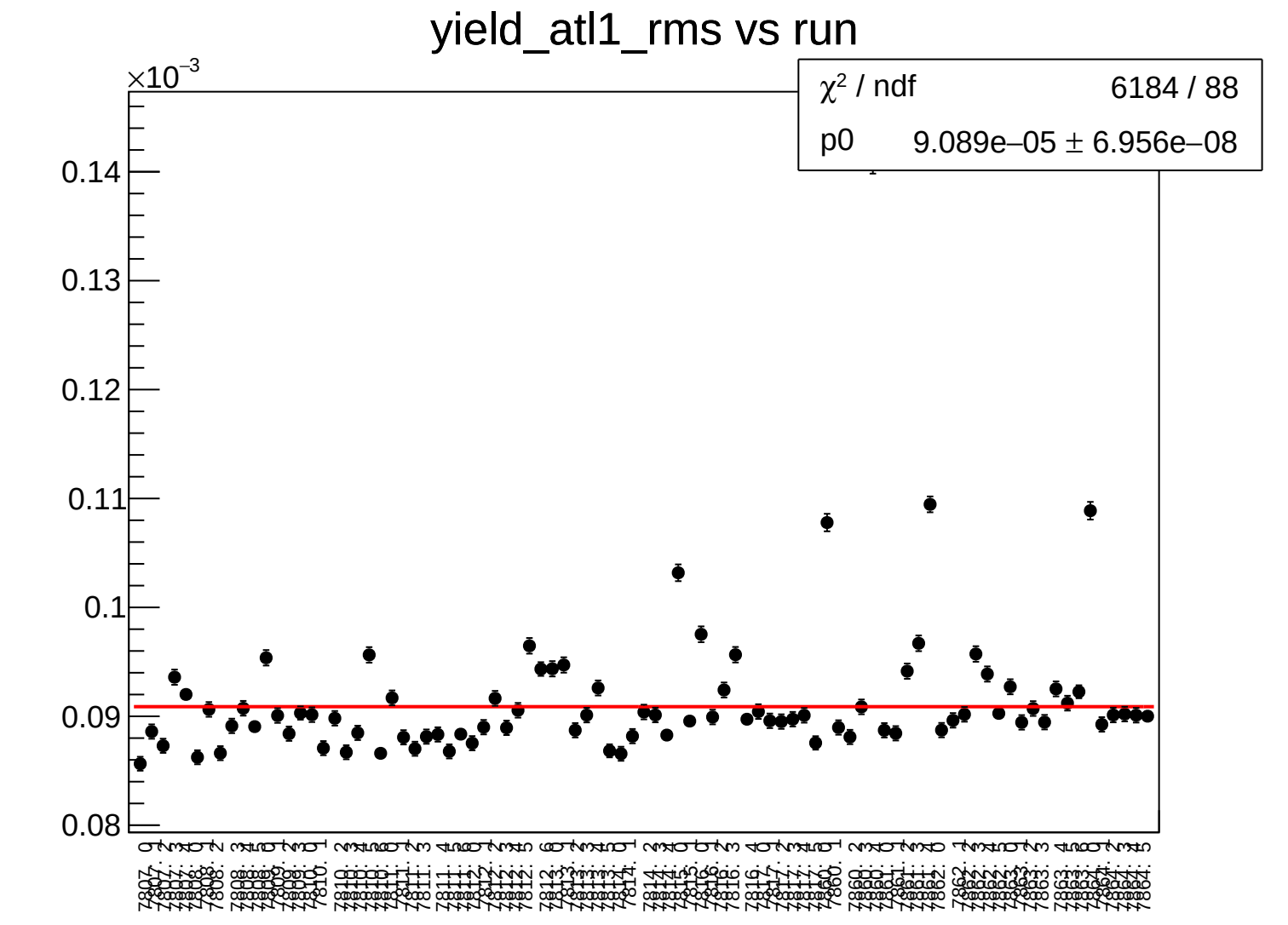

yield_dsr_mean vs run
χ² / ndf 8.819e+05 / 88
p0 −0.1601± 5.47e−05
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 89
Mean 3662
Std Dev 3608
200
100
0
−100
−200

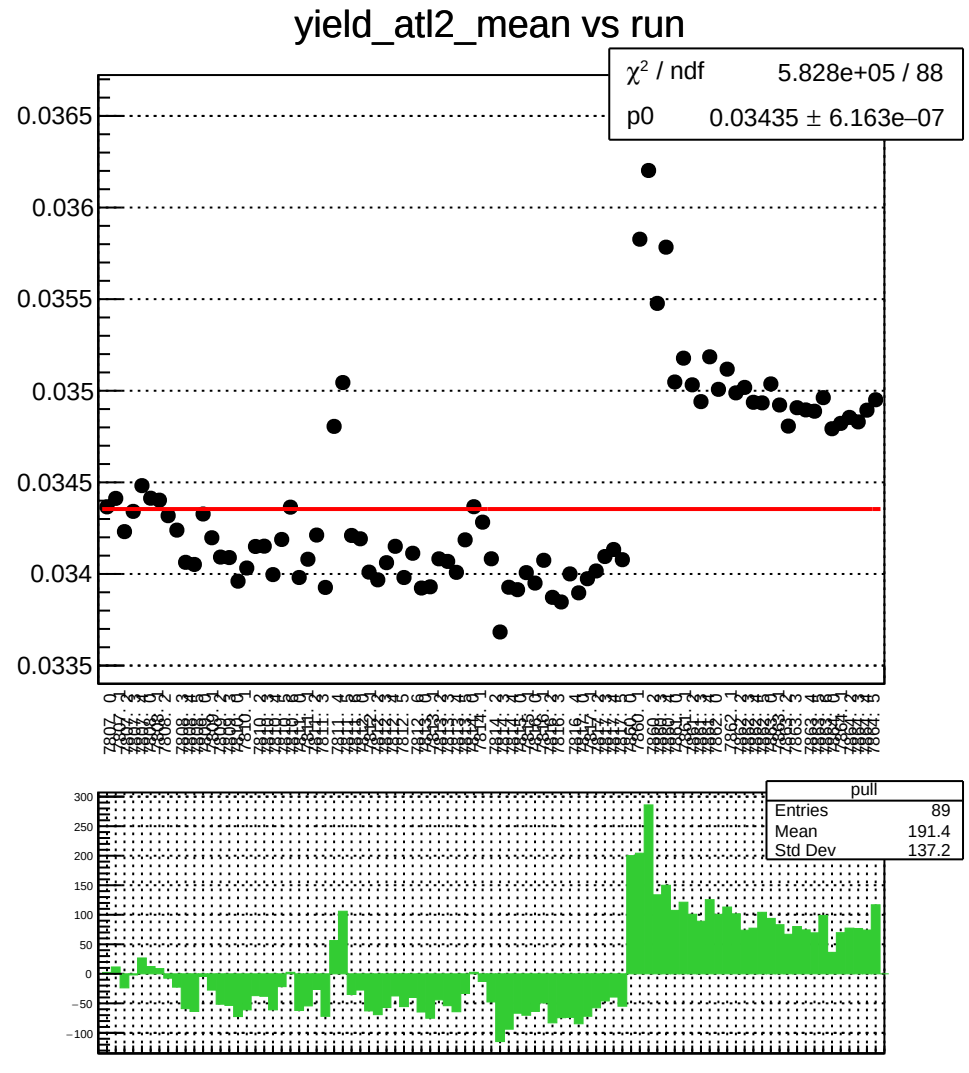

pull1D
Entries 89
Mean 0.1054
Std Dev 5.768
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

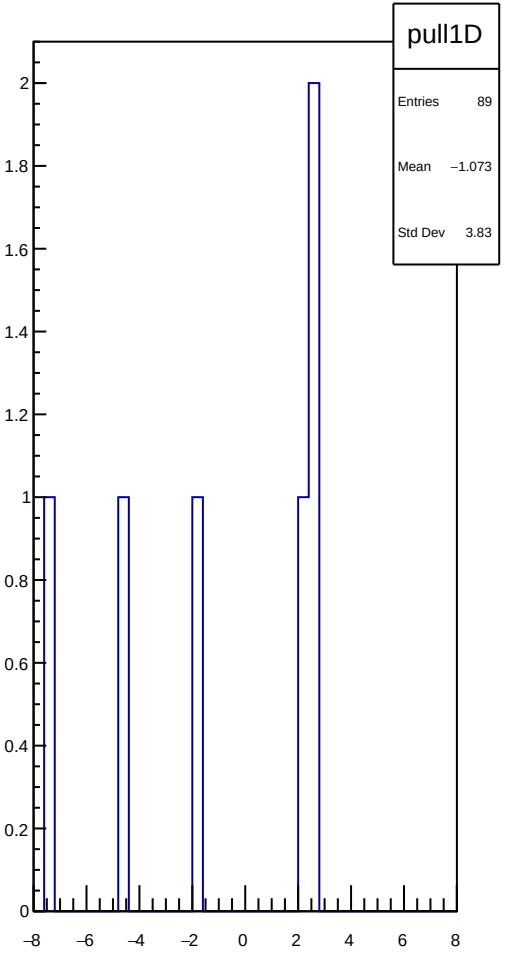

yield_dsr_rms vs run
χ² / ndf 3.537e+04 / 88
p0 0.05011 ± 3.868e–05
0.08
0.07
0.06
0.05
0.04

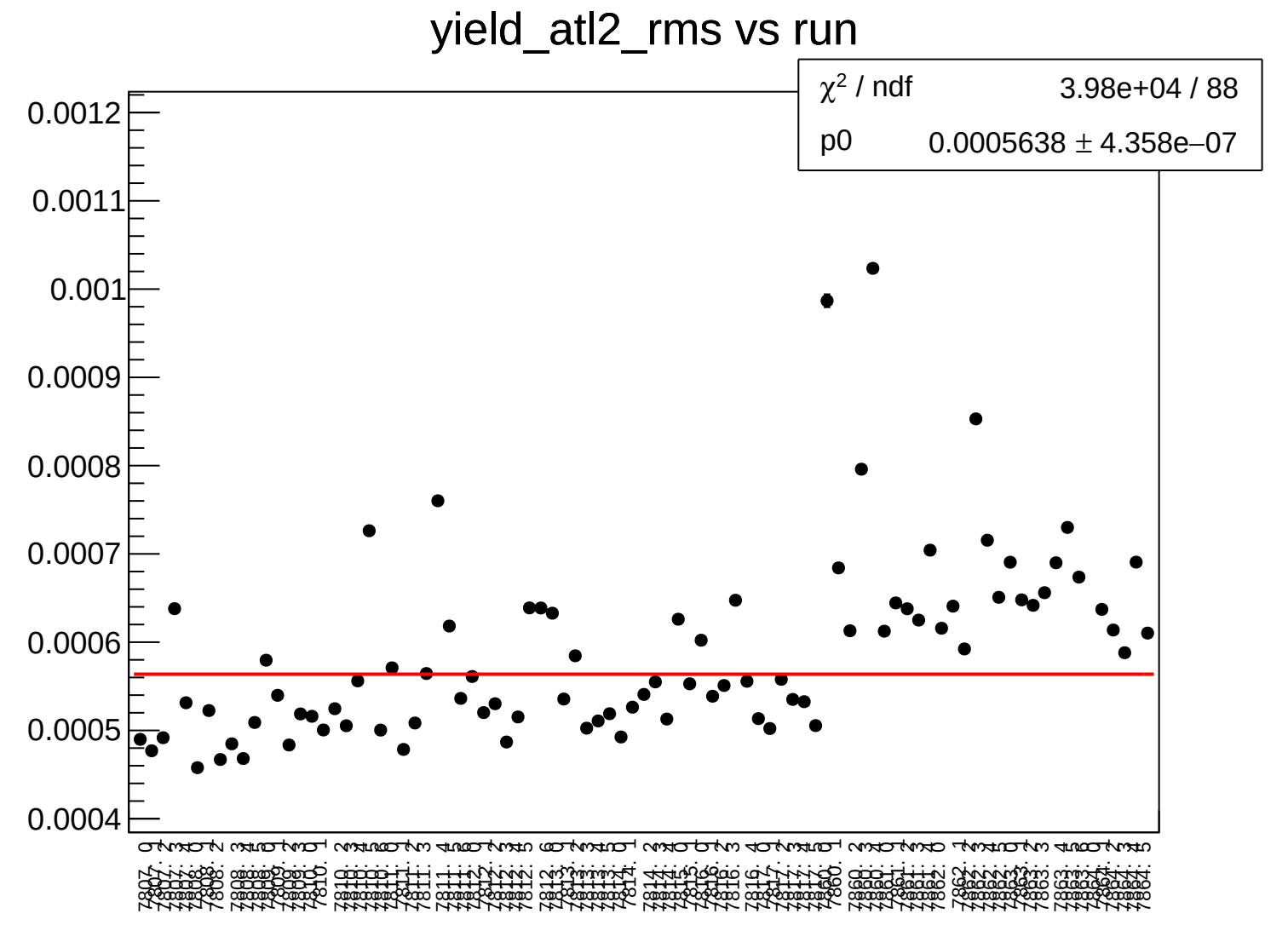

yield_atl1_mean vs run
χ² / ndf 2.764e+05 / 88
p0 0.027 ± 9.837e−08
0.02715
0.0271
0.02705
0.027
0.02695
0.0269
pull
Entries 89
Mean 3812
Std Dev 3757
150
100
50
0
−50
−100

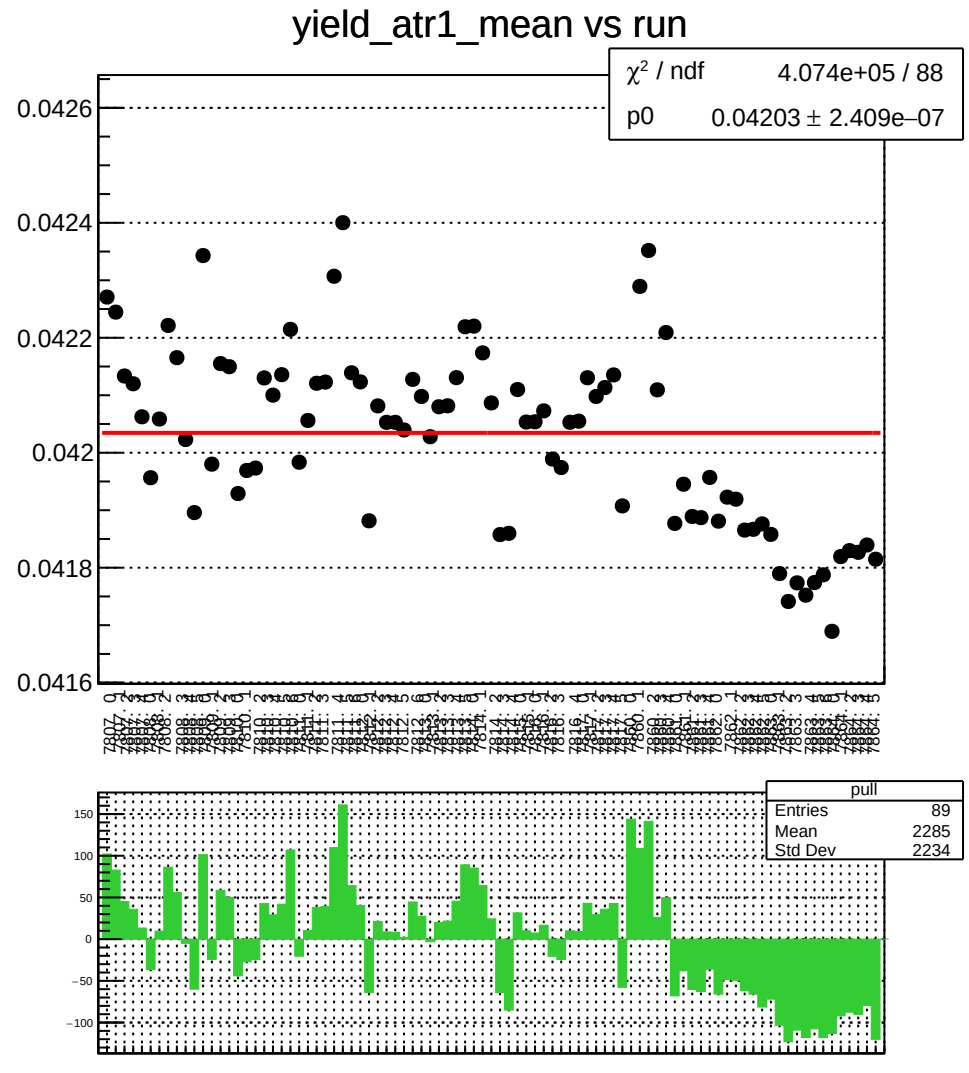

pull1D
Entries 89
Mean −0.9244
Std Dev 3.932
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

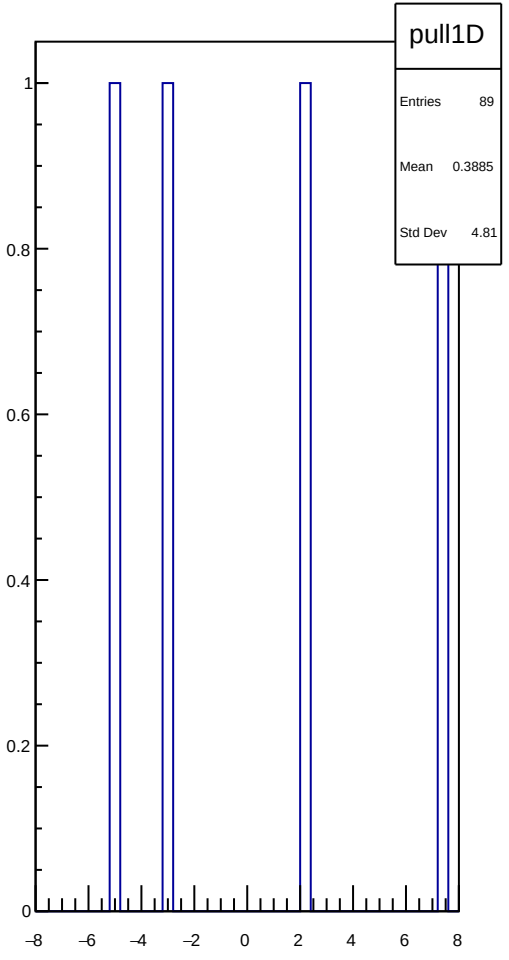

yield_atl1_rms vs run
×10⁻³
χ² / ndf 6184 / 88
p0 9.089e−05 ± 6.956e−08
0.14
0.13
0.12
0.11
0.1
0.09
0.08

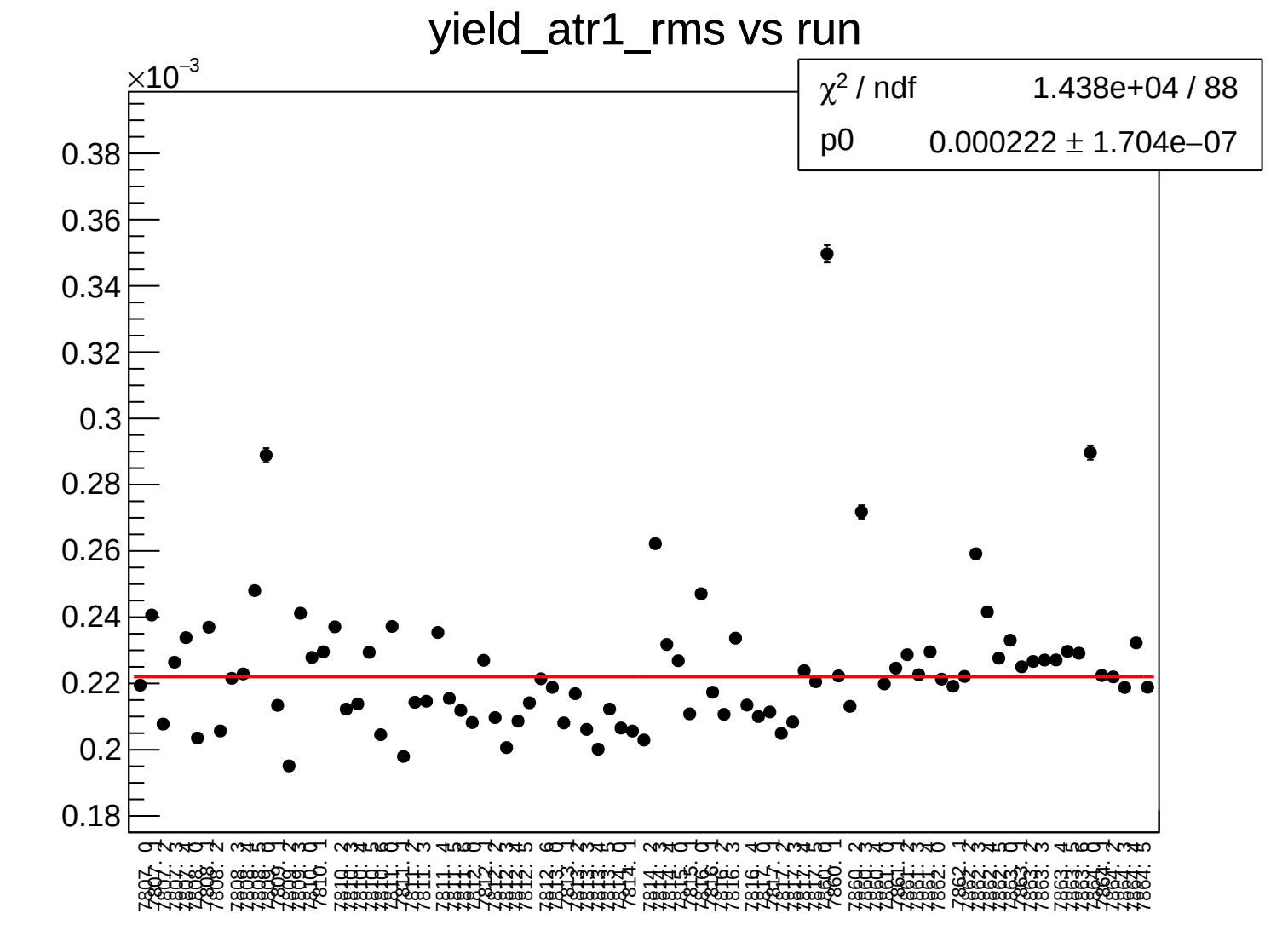

yield_atl2_mean vs run
χ² / ndf 5.828e+05 / 88
p0 0.03435 ± 6.163e−07
0.0365
0.036
0.0355
0.035
0.0345
0.034
0.0335
pull
Entries 89
Mean 191.4
Std Dev 137.2
300
250
200
150
100
50
0
−50
−100

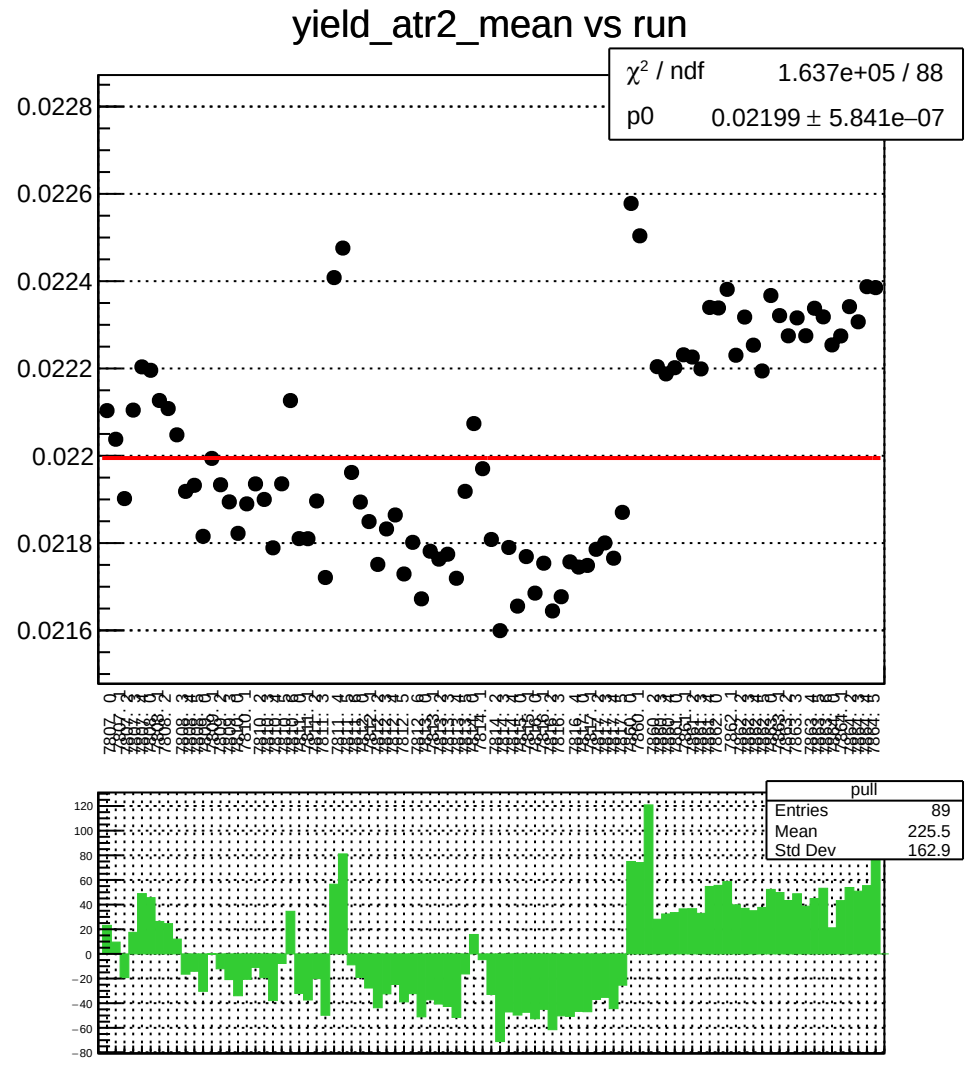

pull1D
Entries 89
Mean −1.073
Std Dev 3.83
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

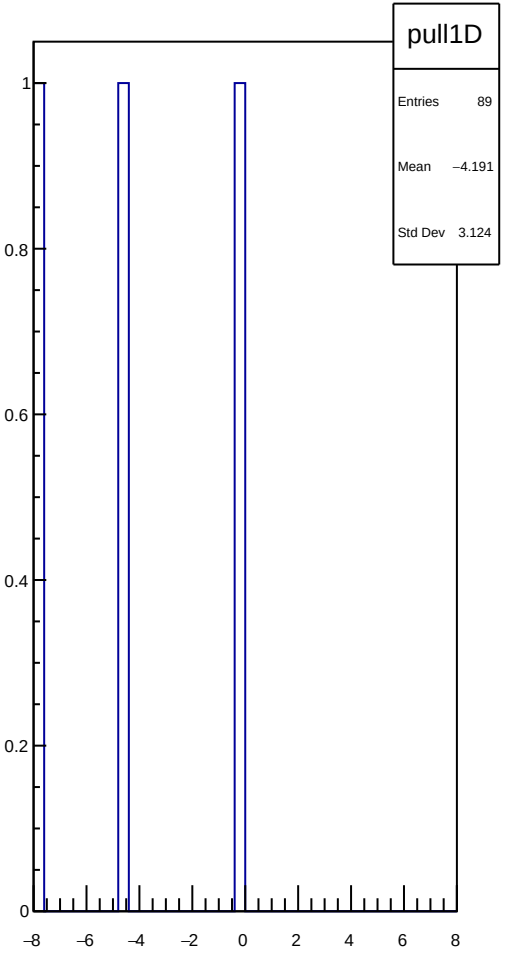

yield_atl2_rms vs run
χ² / ndf 3.98e+04 / 88
p0 0.0005638 ± 4.358e−07
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

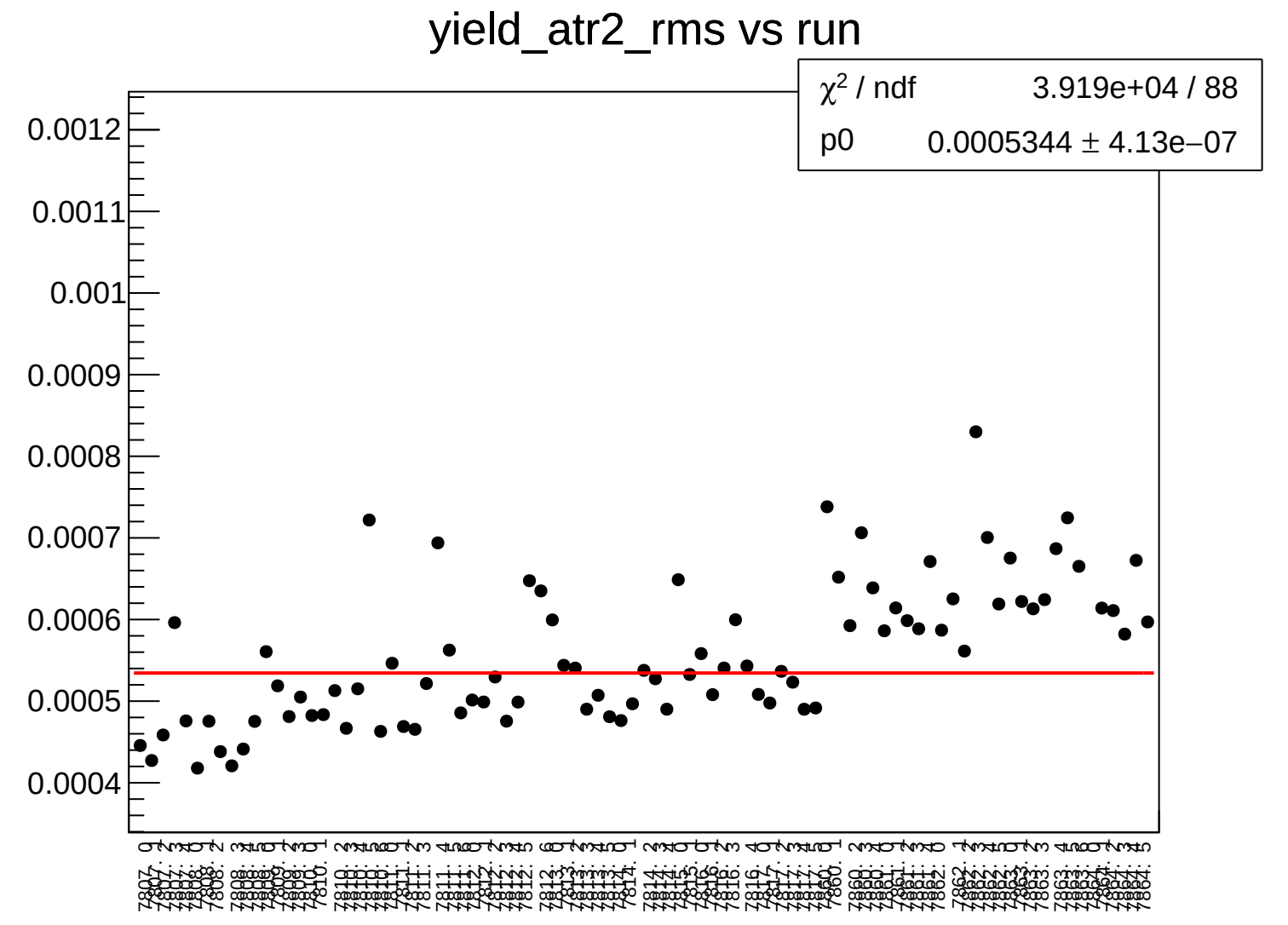

yield_atr1_mean vs run
χ² / ndf 4.074e+05 / 88
p0 0.04203 ± 2.409e−07
0.0426
0.0424
0.0422
0.042
0.0418
0.0416
pull
Entries 89
Mean 2285
Std Dev 2234
150
100
50
0
−50
−100

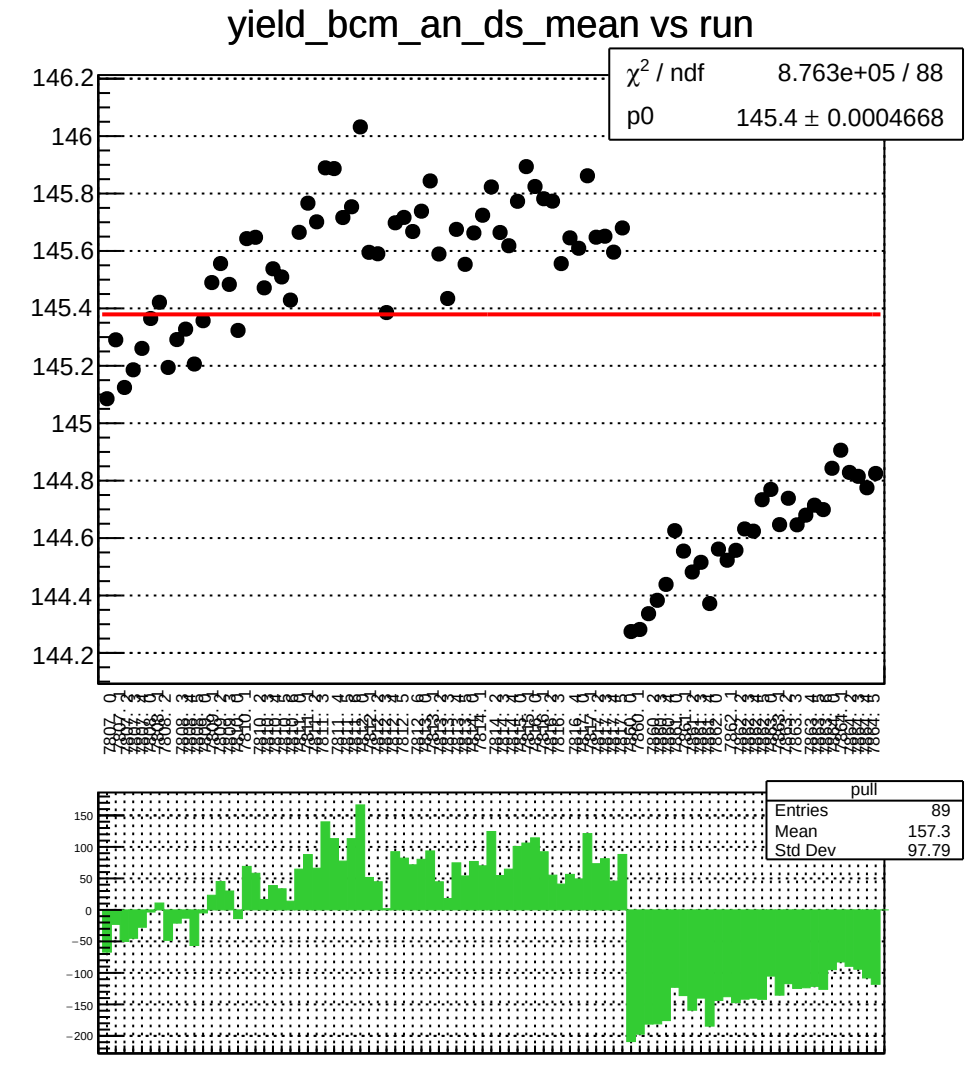

pull1D
Entries 89
Mean 0.3885
Std Dev 4.81
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

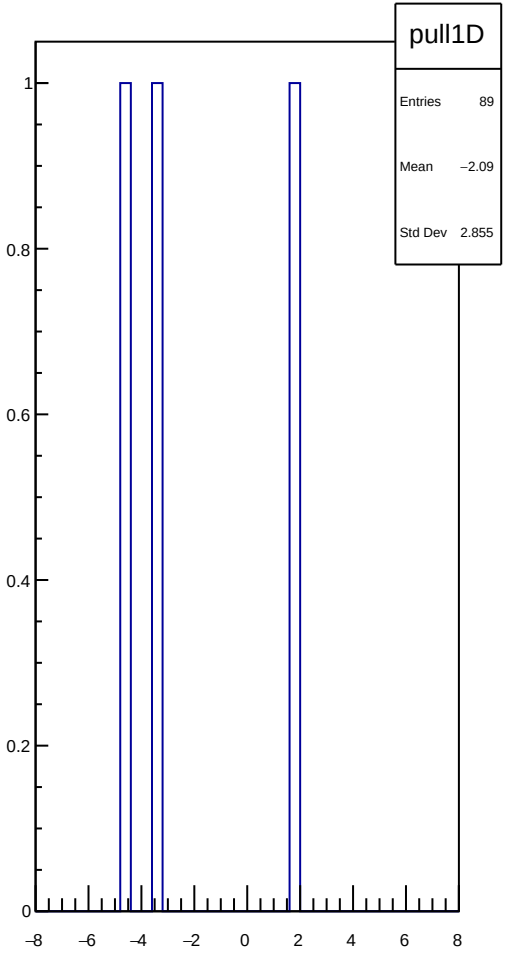

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.438e+04 / 88
p0 0.000222 ± 1.704e−07
0.38
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18

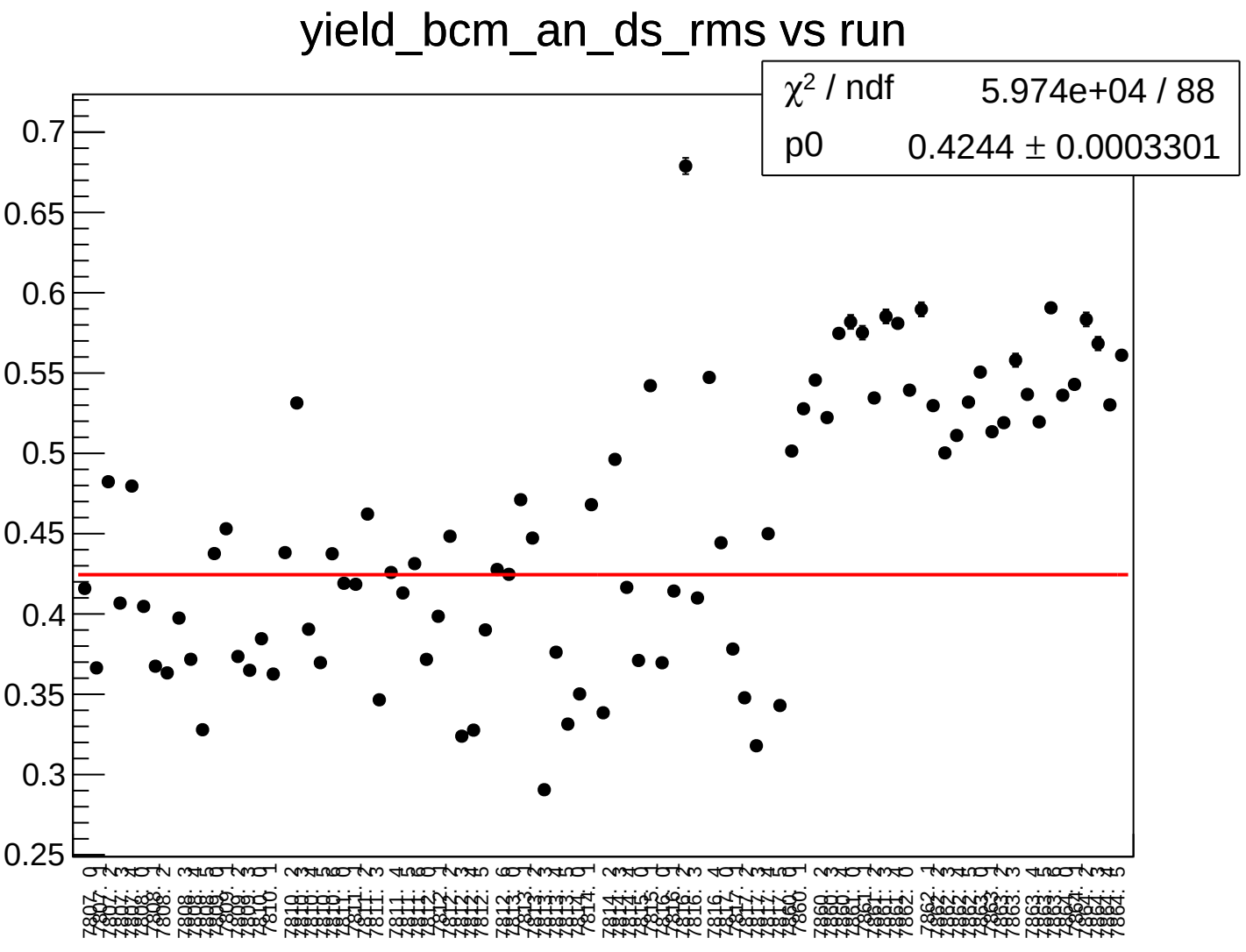

yield_atr2_mean vs run
χ² / ndf 1.637e+05 / 88
p0 0.02199 ± 5.841e−07
0.0228
0.0226
0.0224
0.0222
0.022
0.0218
0.0216
pull
Entries 89
Mean 225.5
Std Dev 162.9
120
100
80
60
40
20
0
−20
−40
−60
−80

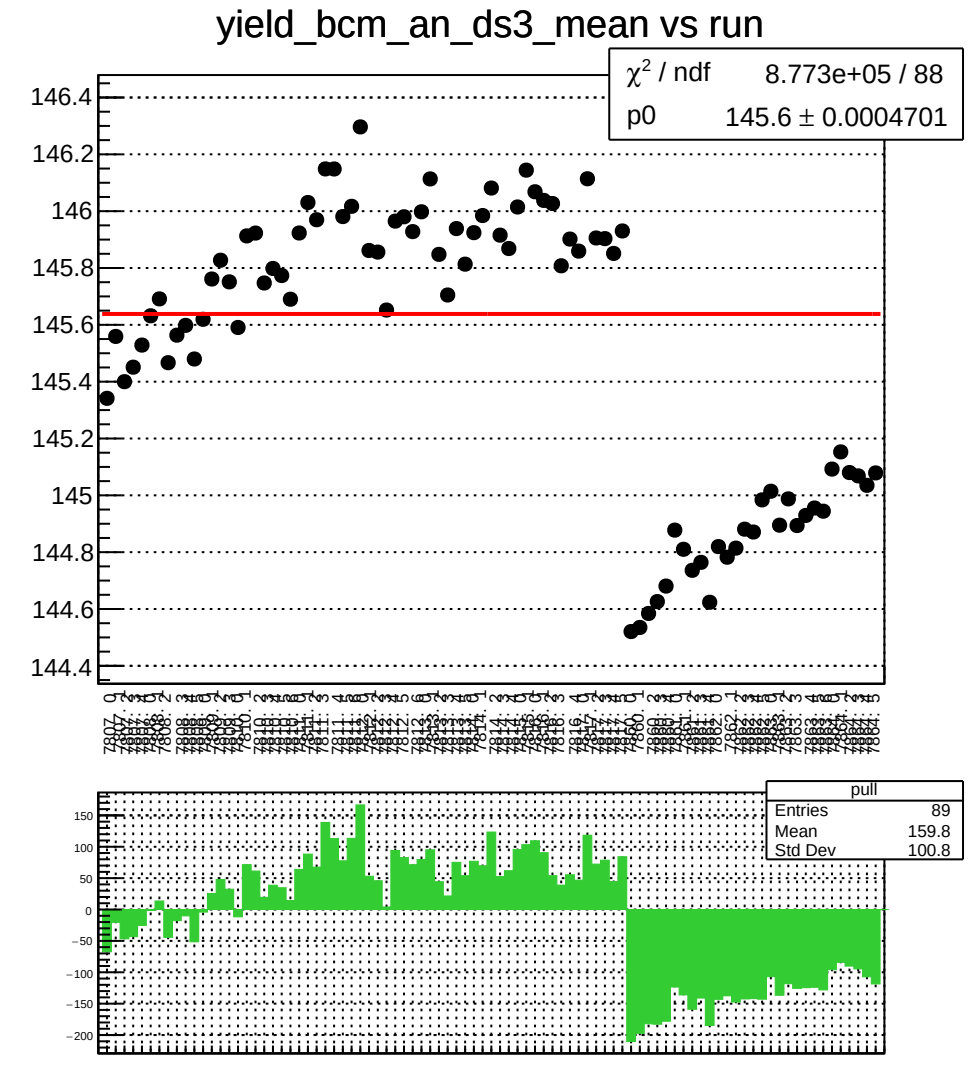

pull1D
Entries 89
Mean −4.191
Std Dev 3.124
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

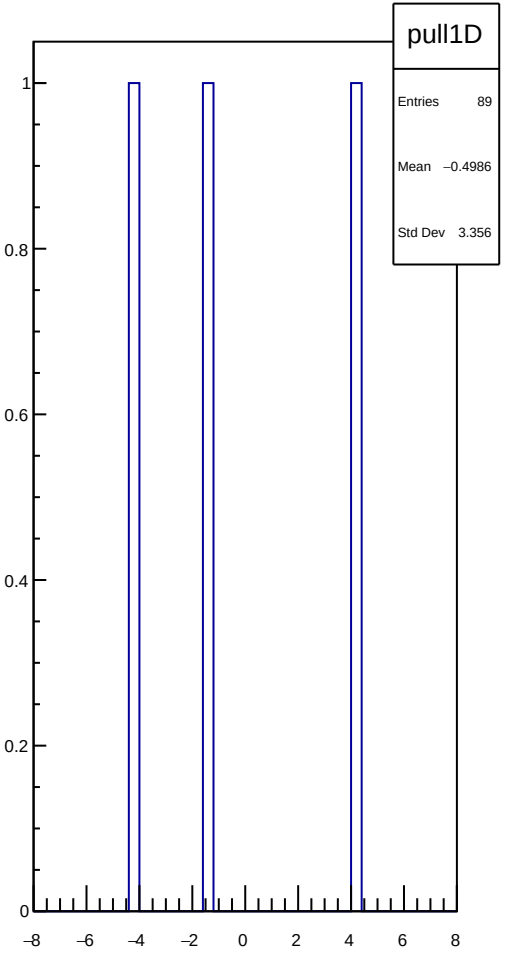

yield_atr2_rms vs run
χ² / ndf 3.919e+04 / 88
p0 0.0005344 ± 4.13e−07
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

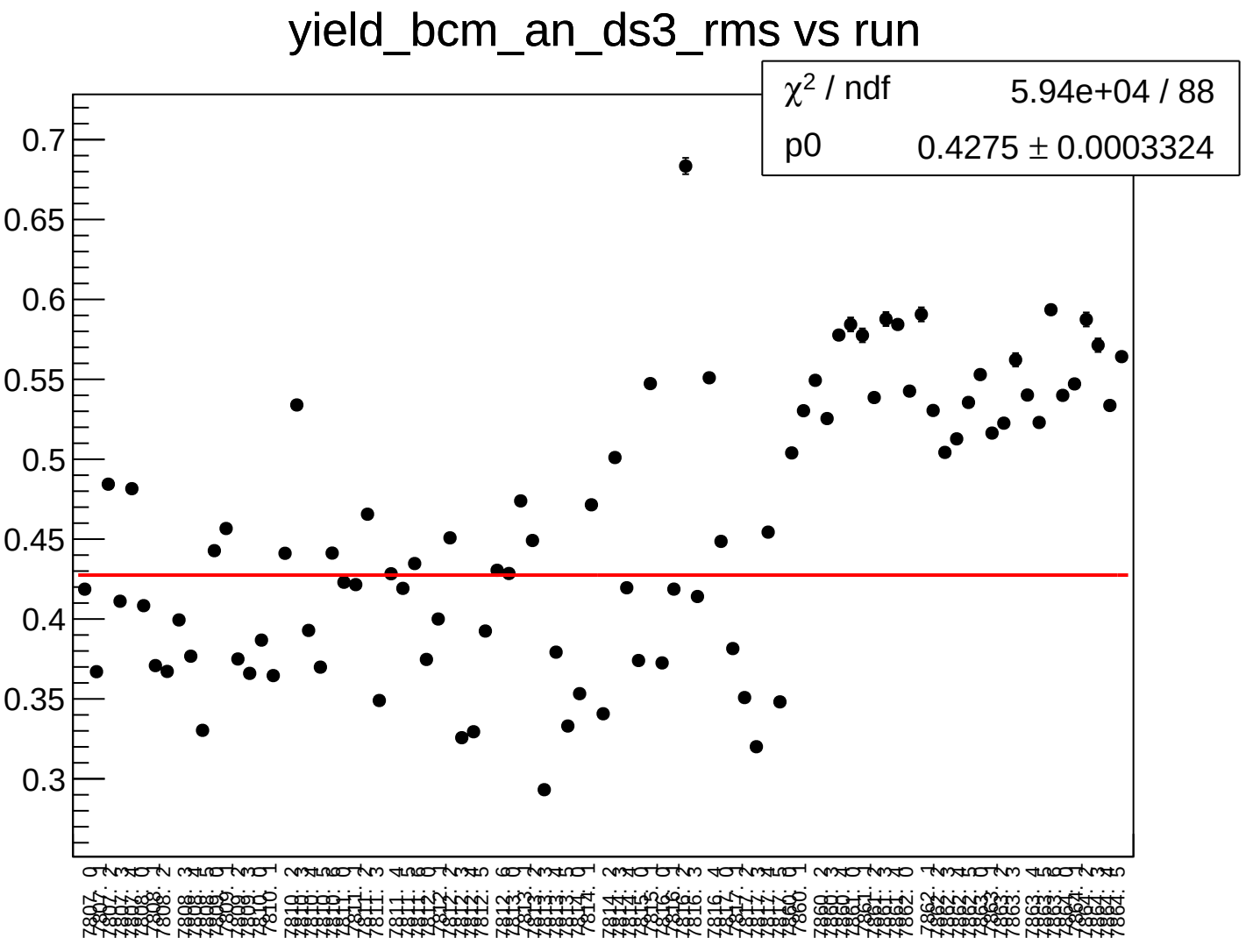

yield_bcm_an_ds_mean vs run
χ² / ndf 8.763e+05 / 88
p0 145.4 ± 0.0004668
146.2
146
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
pull
Entries 89
Mean 157.3
Std Dev 97.79
150
100
50
0
−50
−100
−150
−200

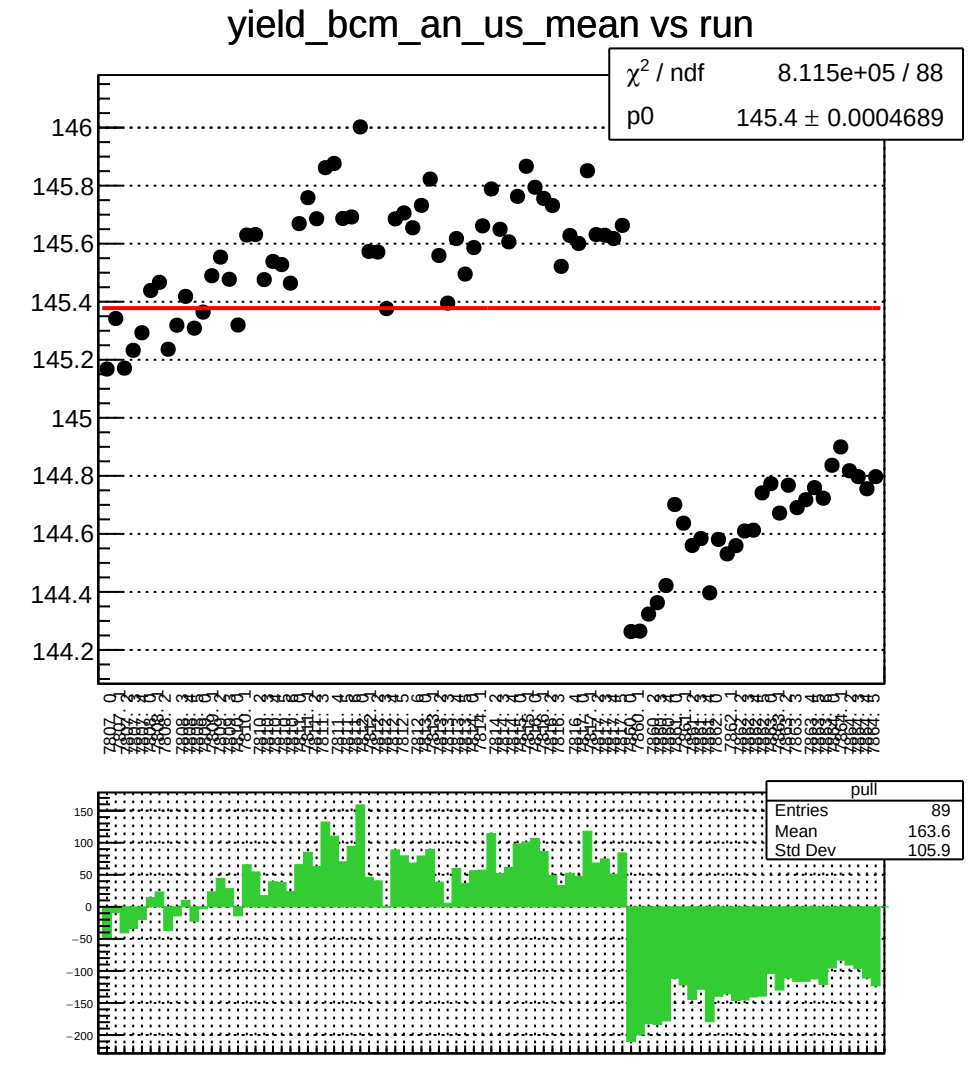

pull1D
Entries 89
Mean −2.09
Std Dev 2.855
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

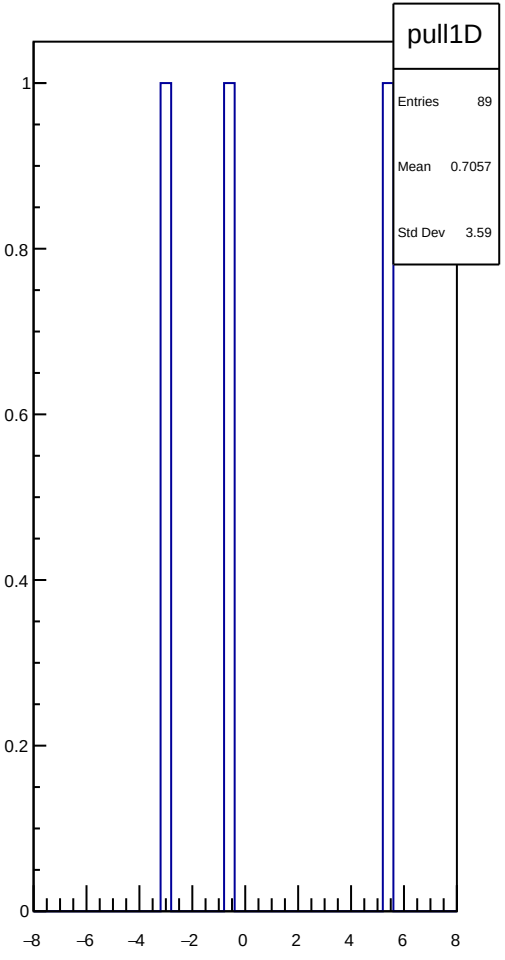

yield_bcm_an_ds_rms vs run
χ² / ndf 5.974e+04 / 88
p0 0.4244 ± 0.0003301
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25

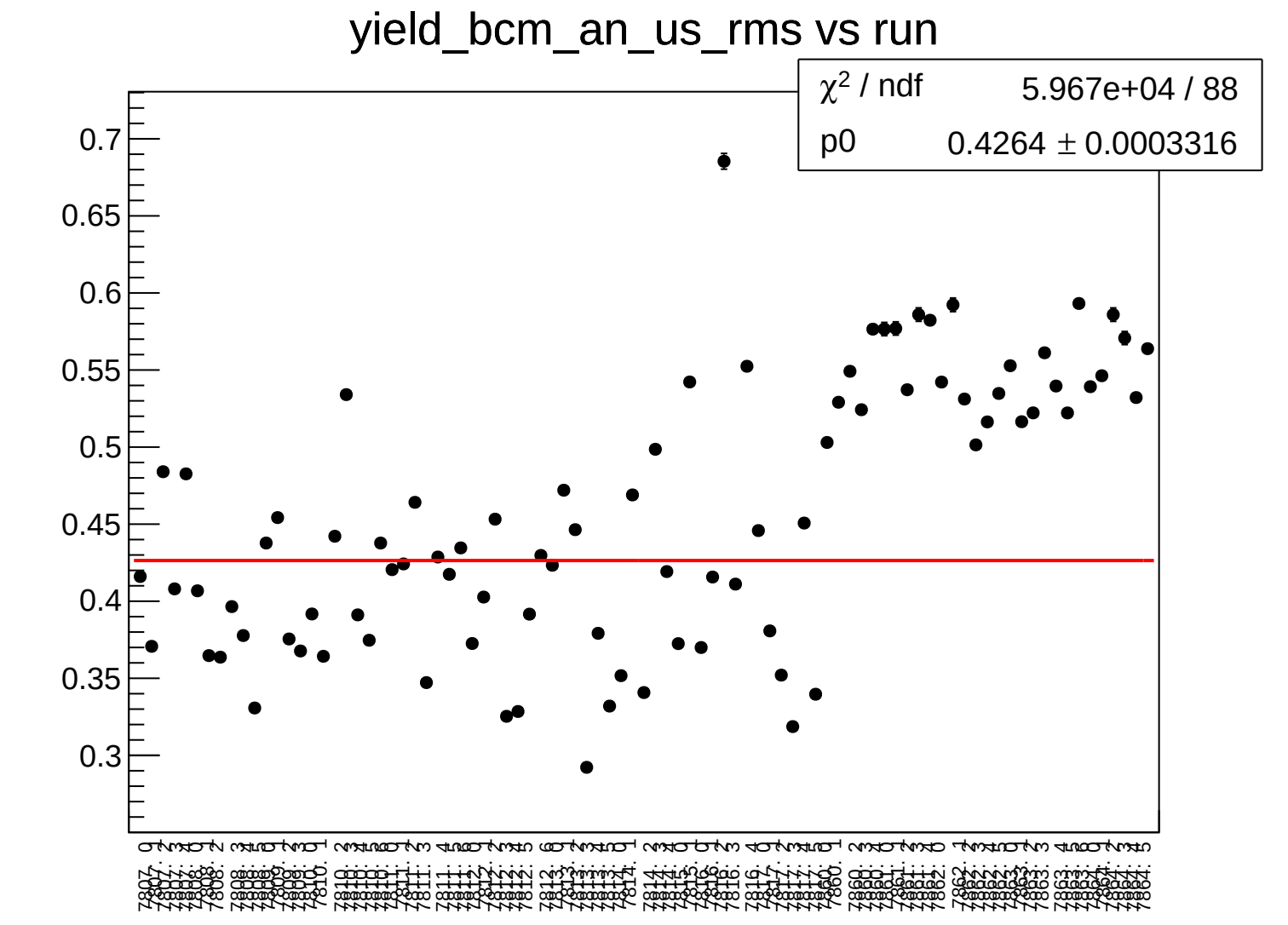

yield_bcm_an_ds3_mean vs run
χ² / ndf 8.773e+05 / 88
p0 145.6 ± 0.0004701
146.4
146.2
146
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
pull
Entries 89
Mean 159.8
Std Dev 100.8
150
100
50
0
−50
−100
−150
−200

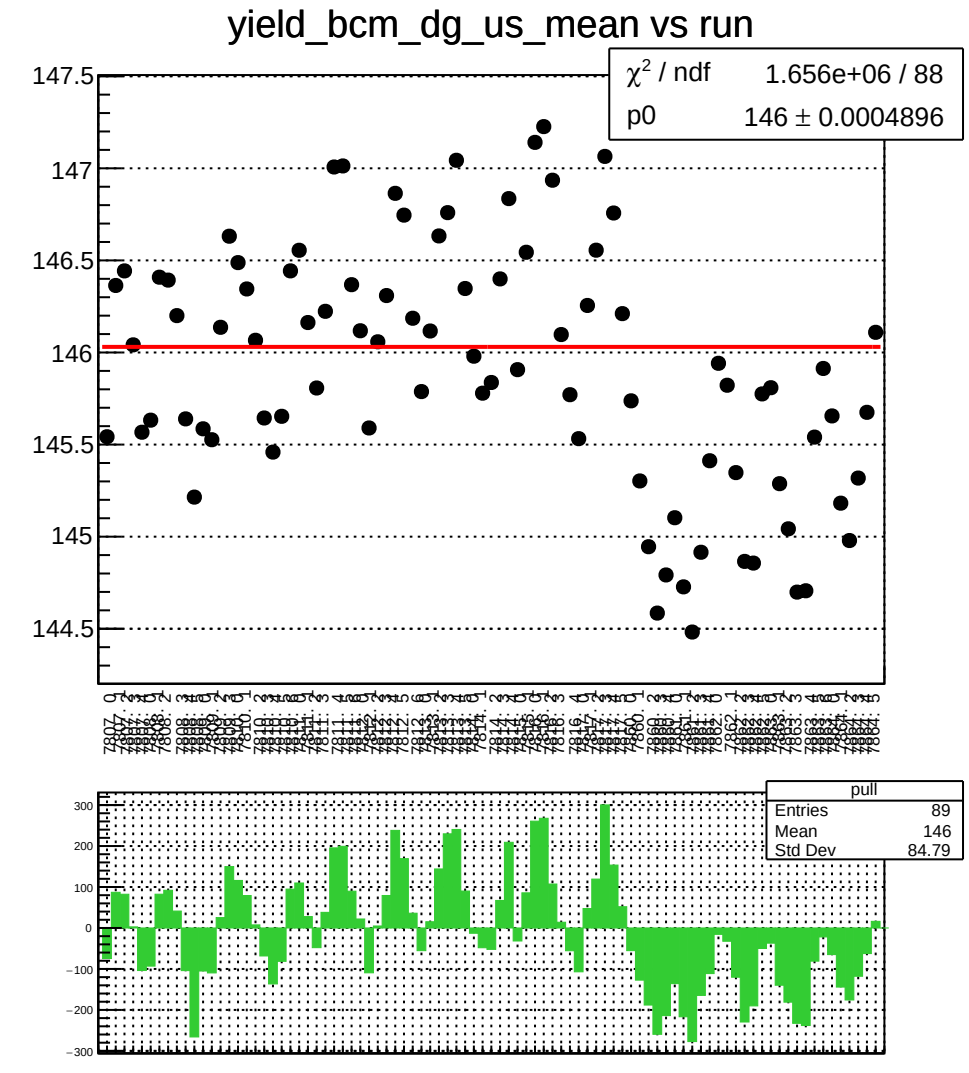

pull1D
Entries 89
Mean −0.4986
Std Dev 3.356
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

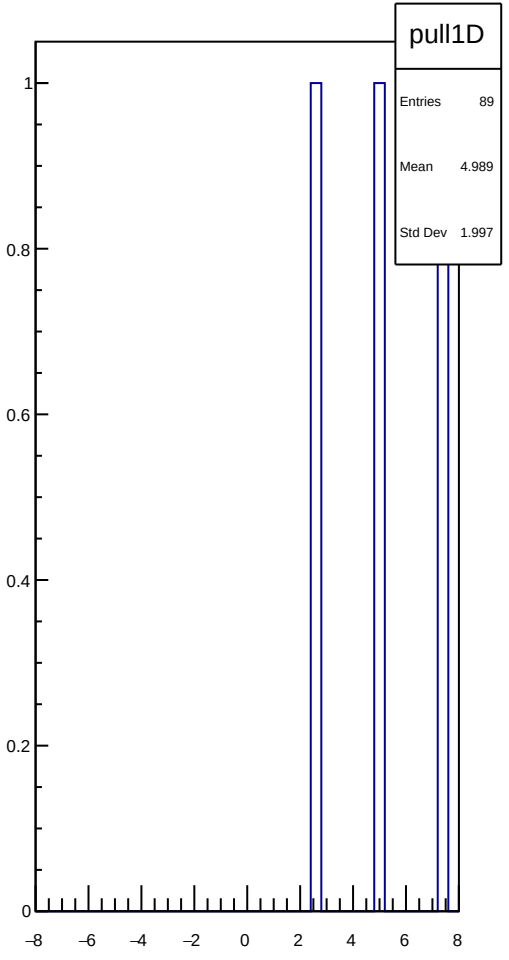

yield_bcm_an_ds3_rms vs run
χ² / ndf 5.94e+04 / 88
p0 0.4275 ± 0.0003324
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

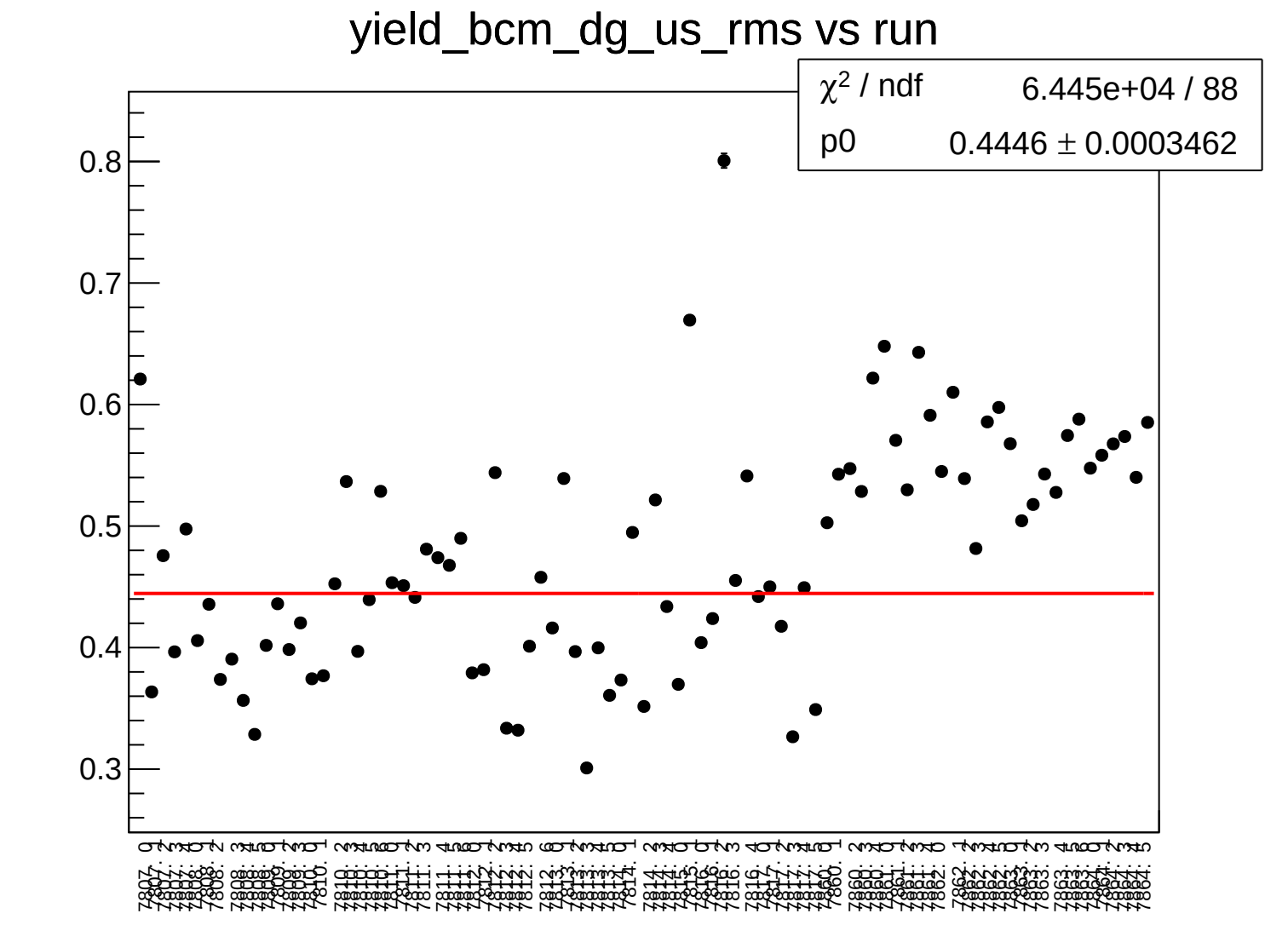

yield_bcm_an_us_mean vs run
χ² / ndf 8.115e+05 / 88
p0 145.4 ± 0.0004689
146
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
pull
Entries 89
Mean 163.6
Std Dev 105.9
150
100
50
0
−50
−100
−150
−200

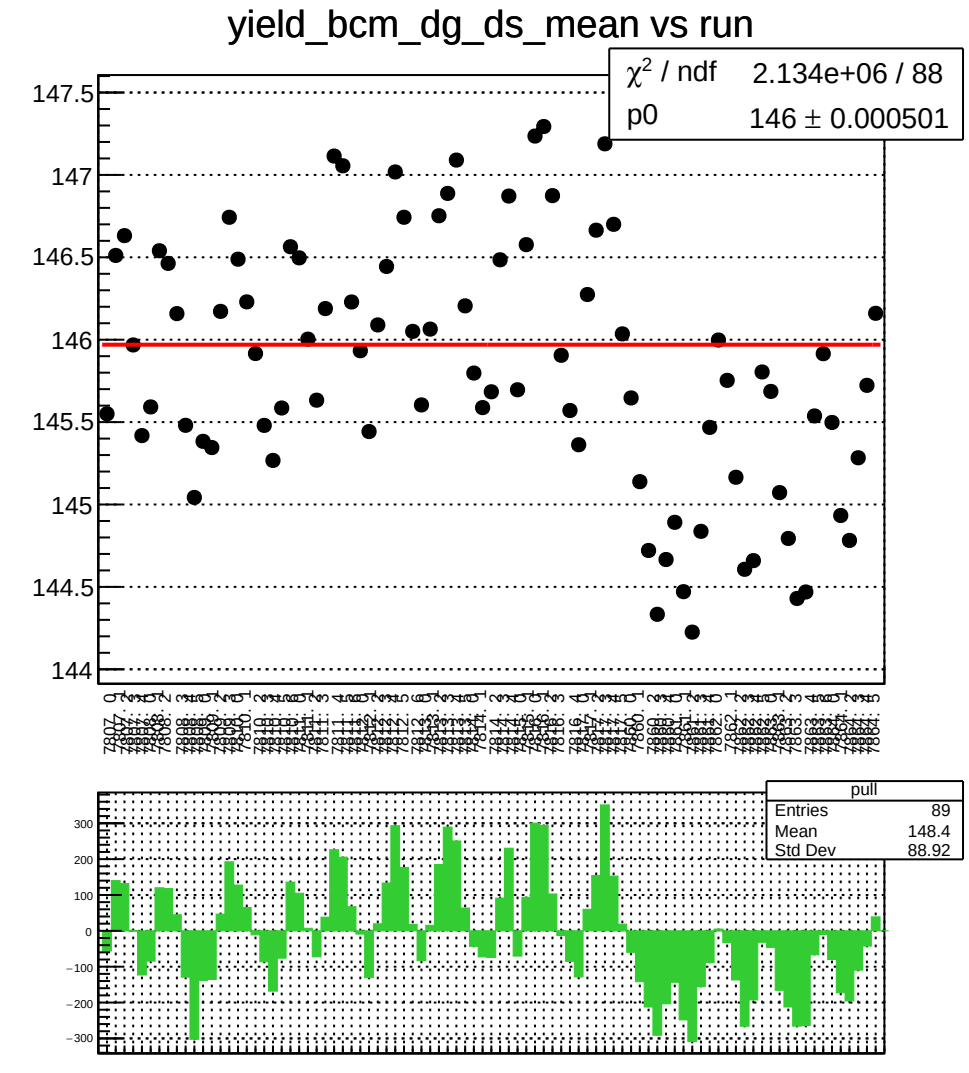

pull1D
Entries 89
Mean 0.7057
Std Dev 3.59
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

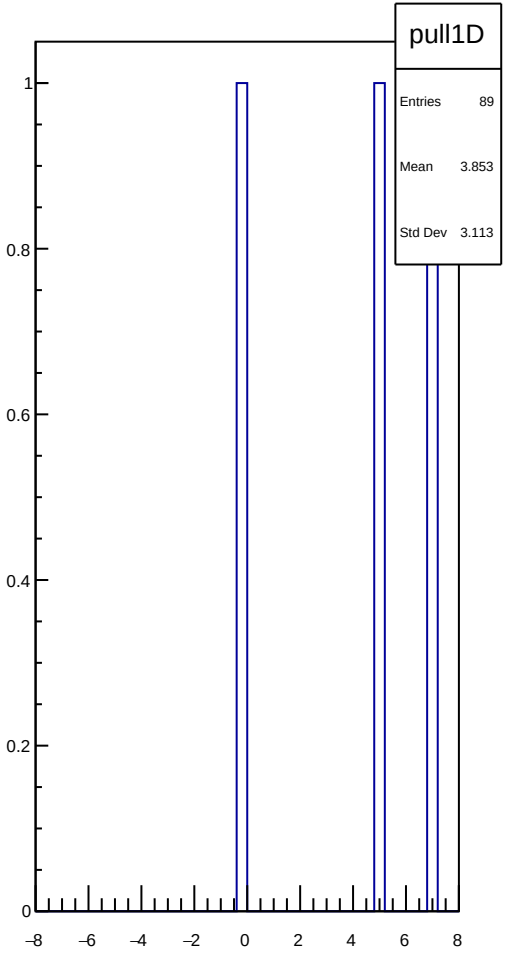

yield_bcm_an_us_rms vs run
χ² / ndf 5.967e+04 / 88
p0 0.4264 ± 0.0003316
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

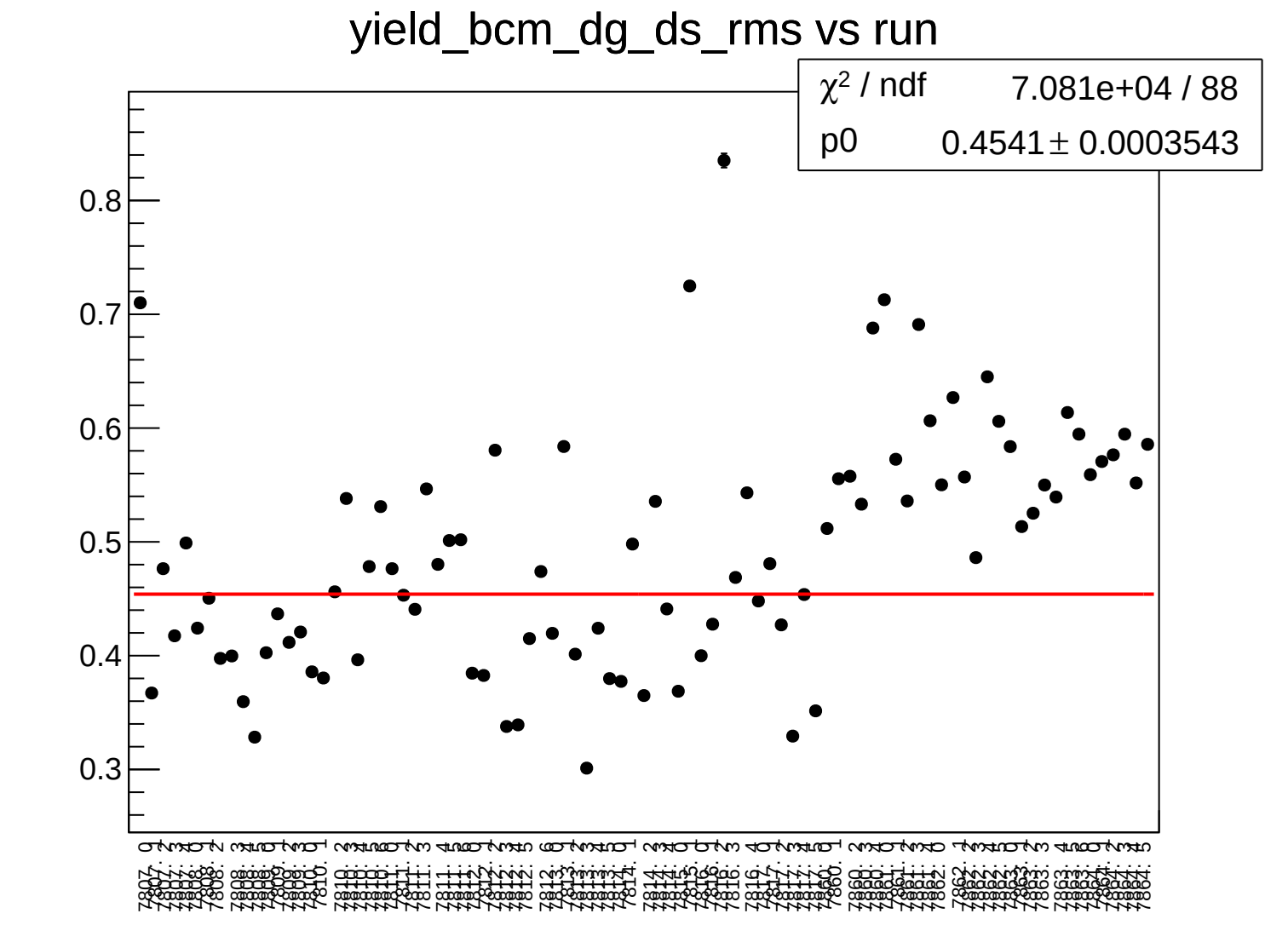

yield_bcm_dg_us_mean vs run
χ² / ndf 1.656e+06 / 88
p0 146 ± 0.0004896
147.5
147
146.5
146
145.5
145
144.5
pull
Entries 89
Mean 146
Std Dev 84.79
300
200
100
0
−100
−200
−300

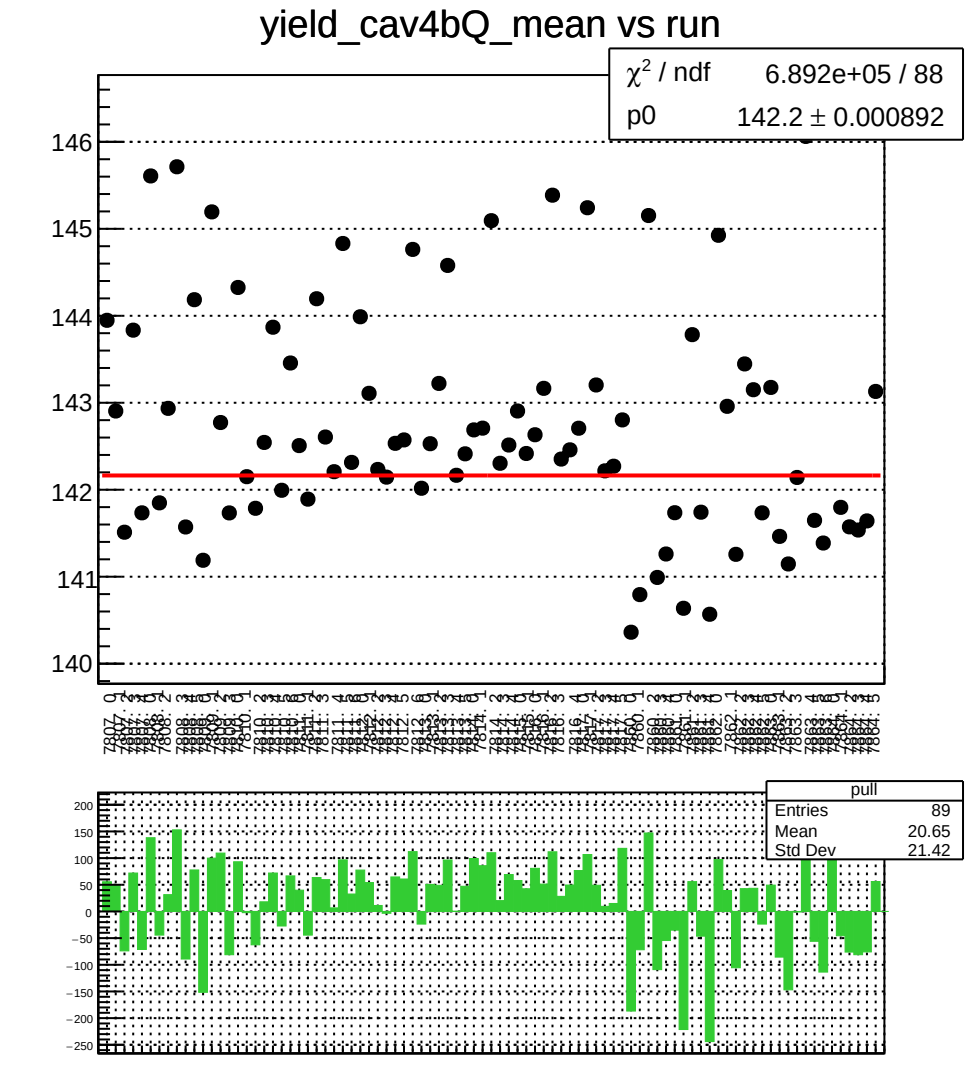

pull1D
Entries 89
Mean 4.989
Std Dev 1.997
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

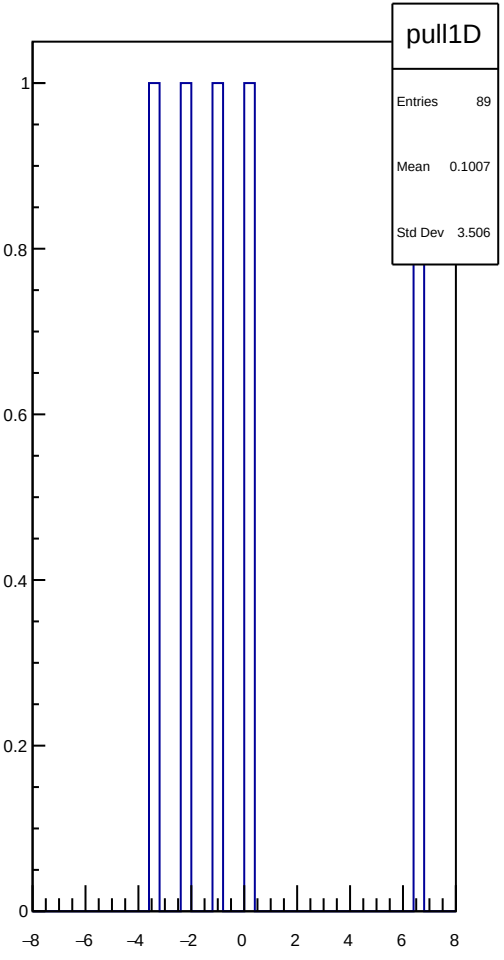

yield_bcm_dg_us_rms vs run
χ² / ndf 6.445e+04 / 88
p0 0.4446 ± 0.0003462
0.8
0.7
0.6
0.5
0.4
0.3

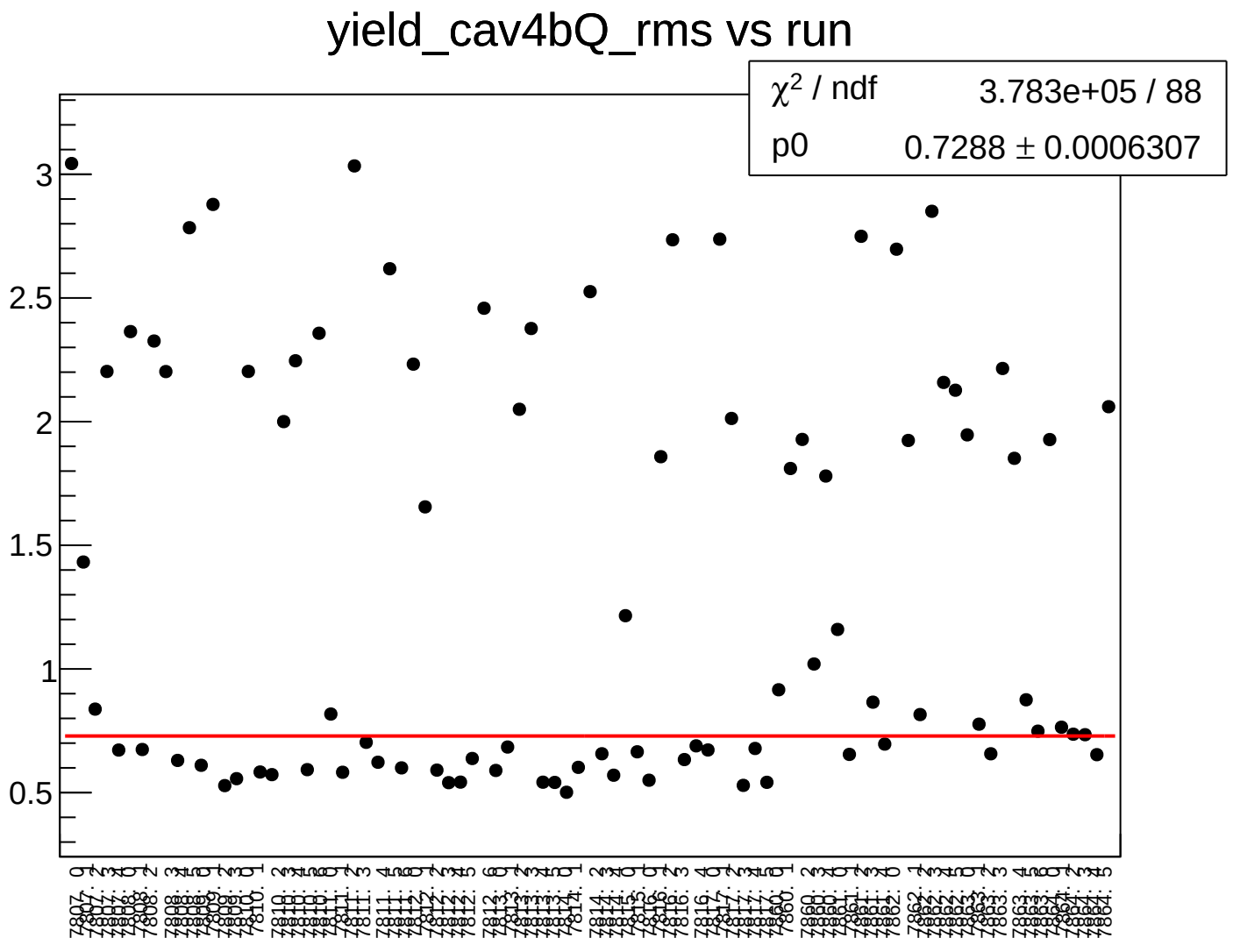

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.134e+06 / 88
p0 146 ± 0.000501
147.5
147
146.5
146
145.5
145
144.5
144
pull
Entries 89
Mean 148.4
Std Dev 88.92
300
200
100
0
−100
−200
−300

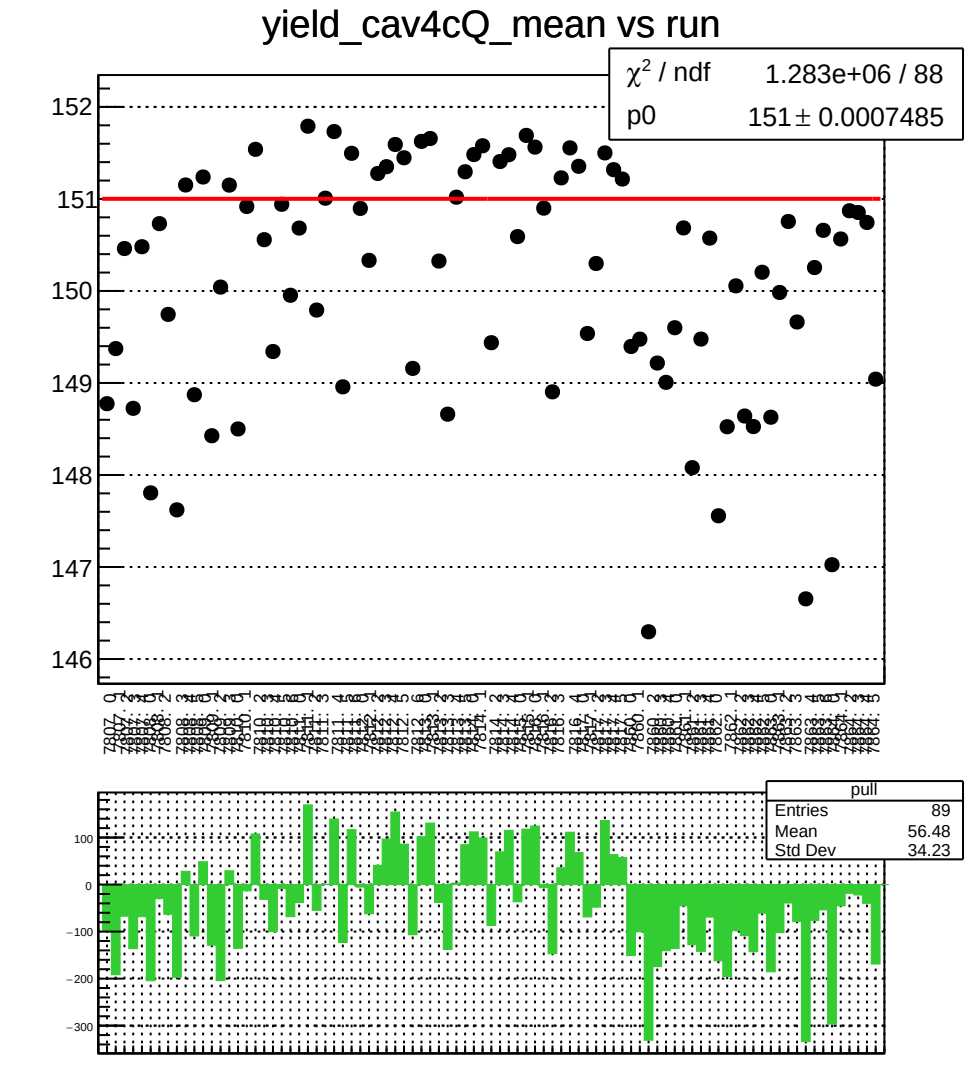

pull1D
Entries 89
Mean 3.853
Std Dev 3.113
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

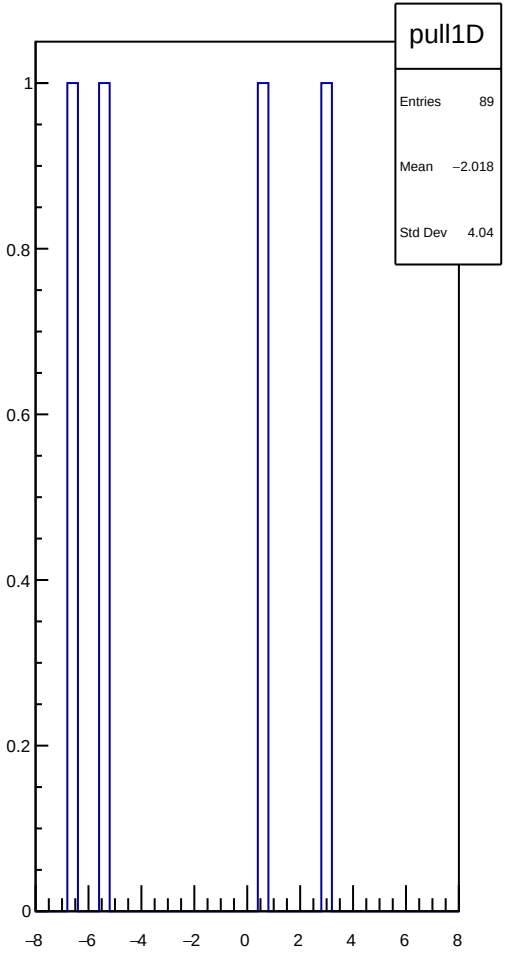

yield_bcm_dg_ds_rms vs run
χ² / ndf 7.081e+04 / 88
p0 0.4541 ± 0.0003543
0.8
0.7
0.6
0.5
0.4
0.3

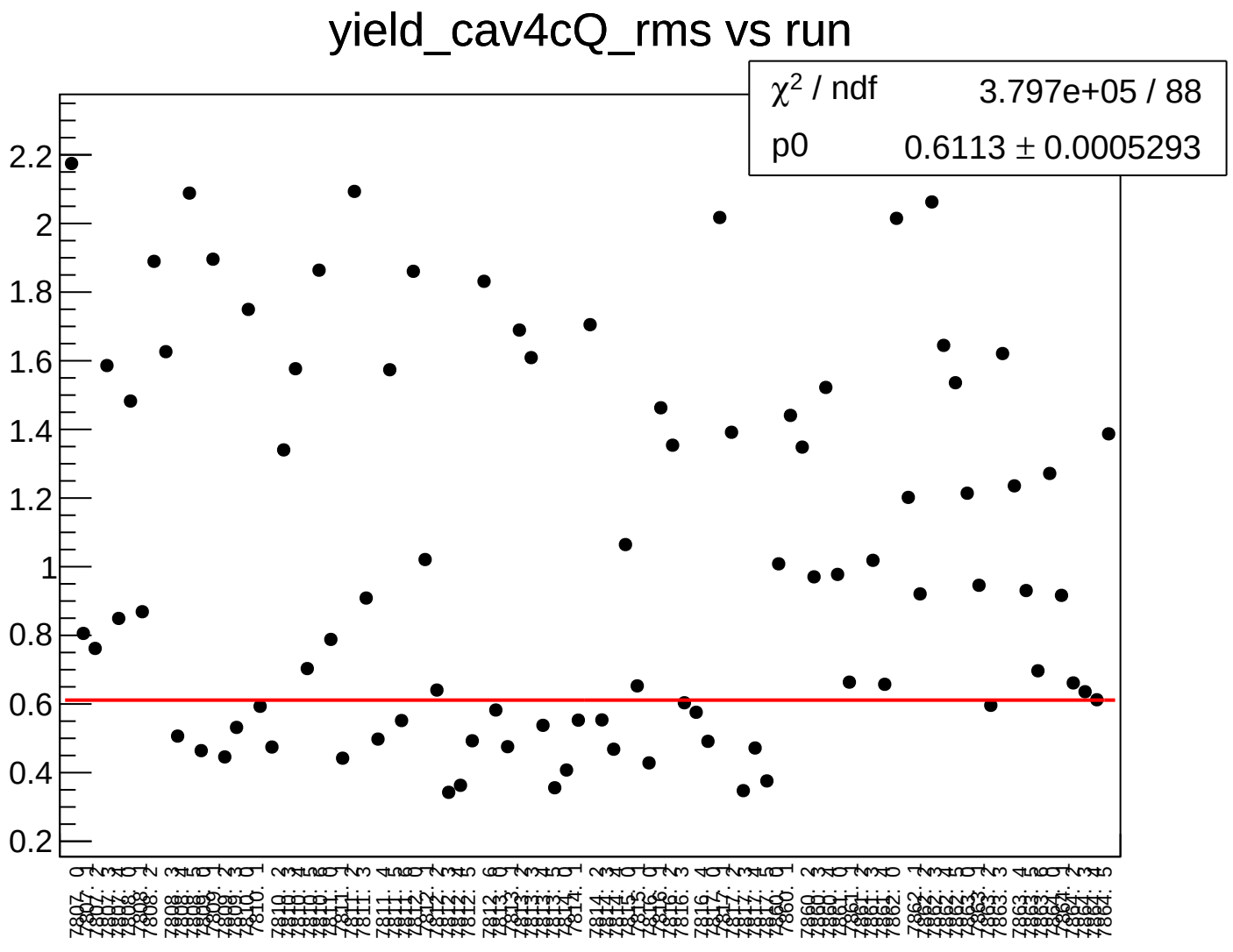

yield_cav4bQ_mean vs run
χ² / ndf 6.892e+05 / 88
p0 142.2 ± 0.000892
146
145
144
143
142
141
140
pull
Entries 89
Mean 20.65
Std Dev 21.42
200
150
100
50
0
−50
−100
−150
−200
−250

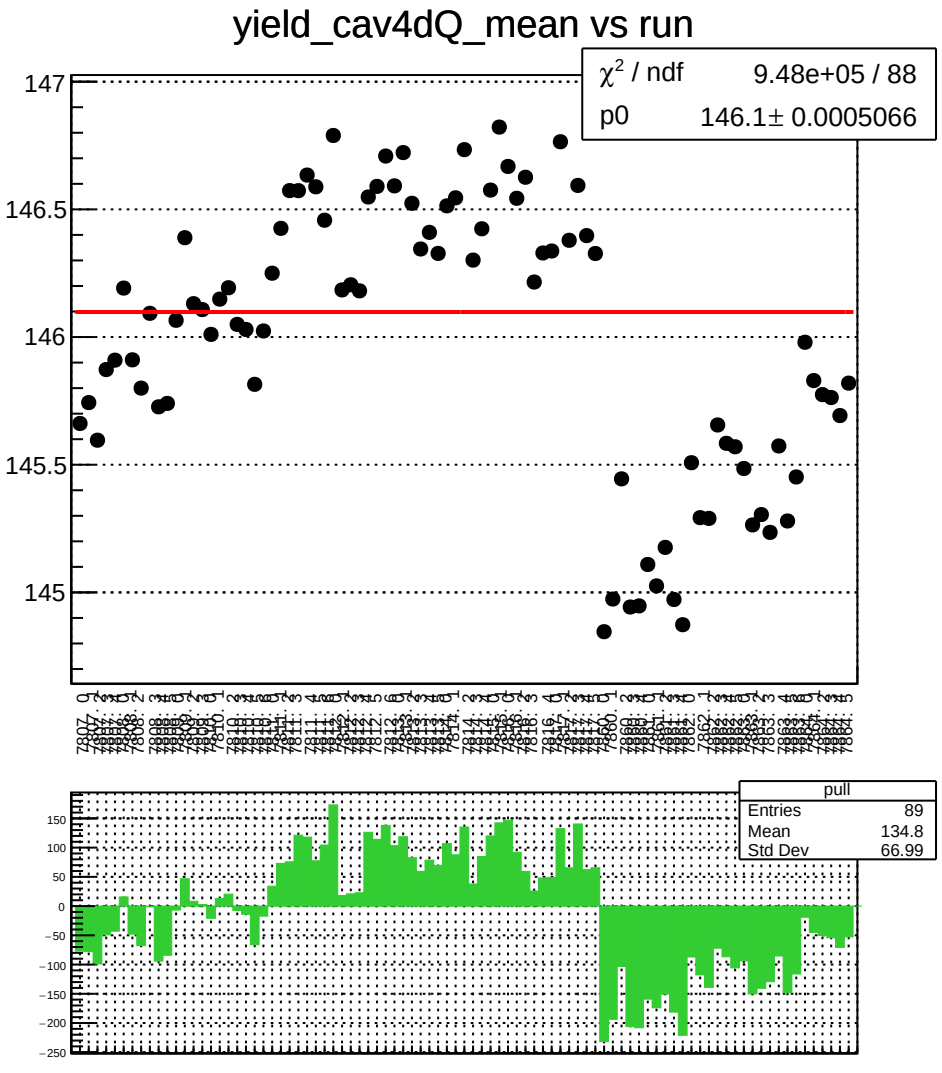

pull1D
Entries 89
Mean 0.1007
Std Dev 3.506
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

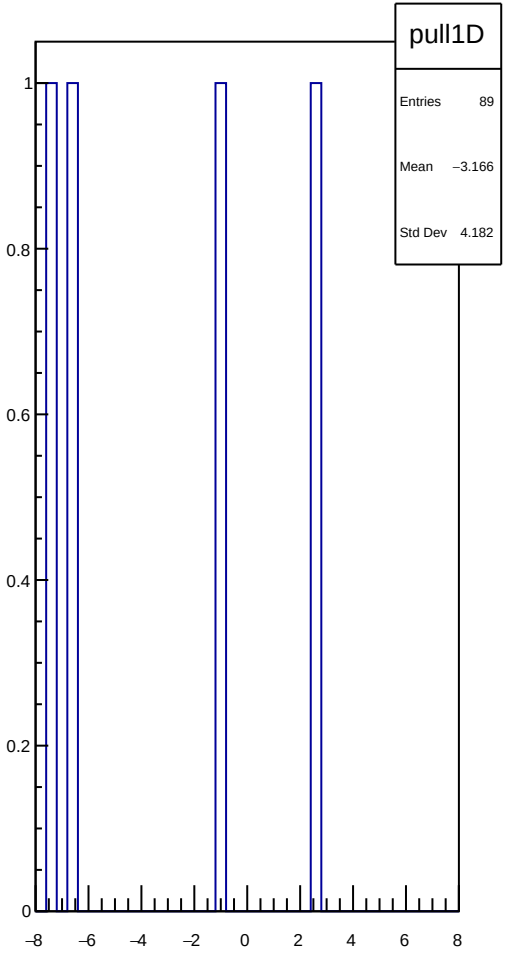

yield_cav4bQ_rms vs run
χ^2 / ndf 3.783e+05 / 88
p0 0.7288 ± 0.0006307
3
2.5
2
1.5
1
0.5

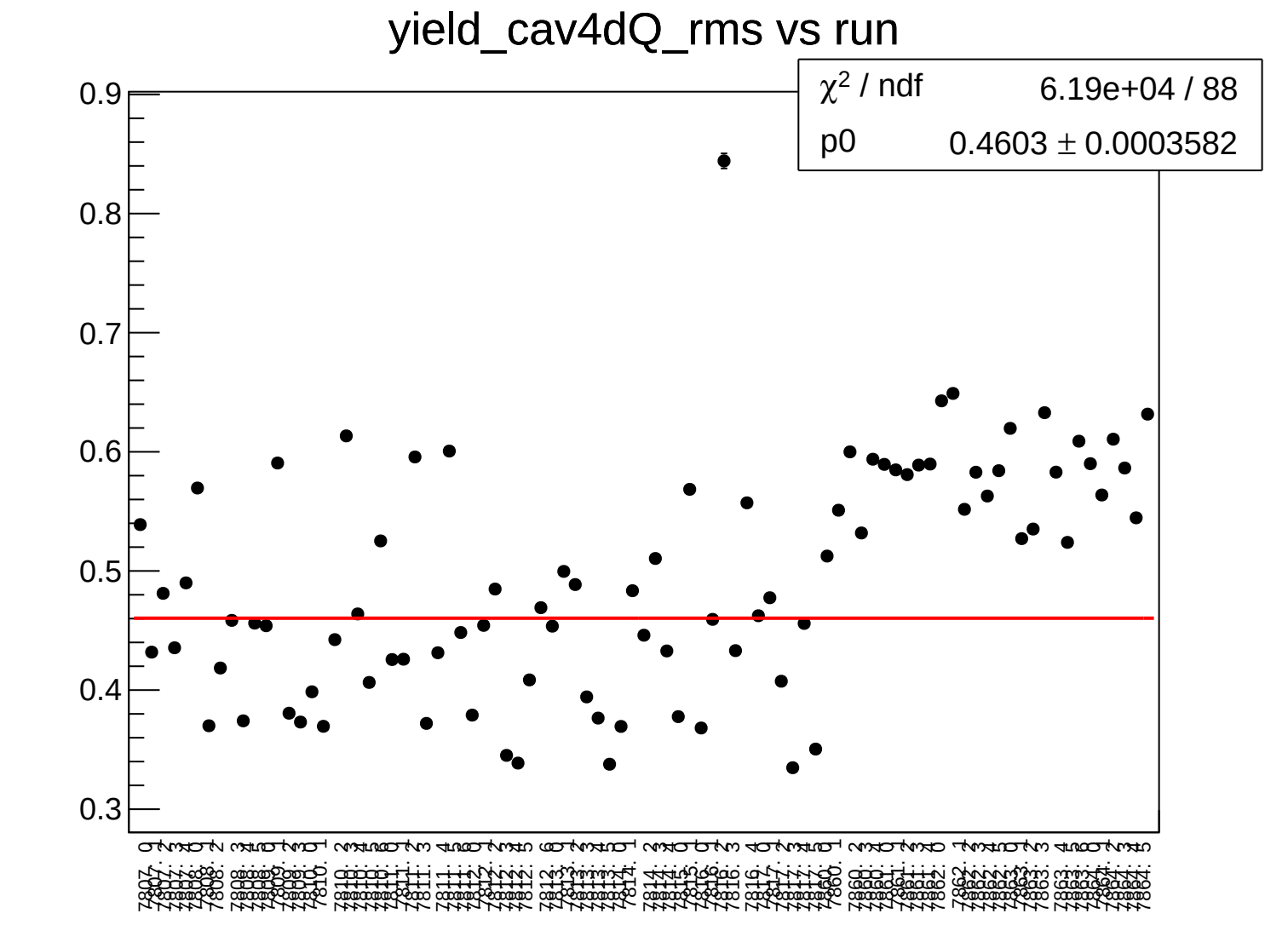

yield_cav4cQ_mean vs run
χ² / ndf 1.283e+06 / 88
p0 151 ± 0.0007485
152
151
150
149
148
147
146
pull
Entries 89
Mean 56.48
Std Dev 34.23
100
0
−100
−200
−300

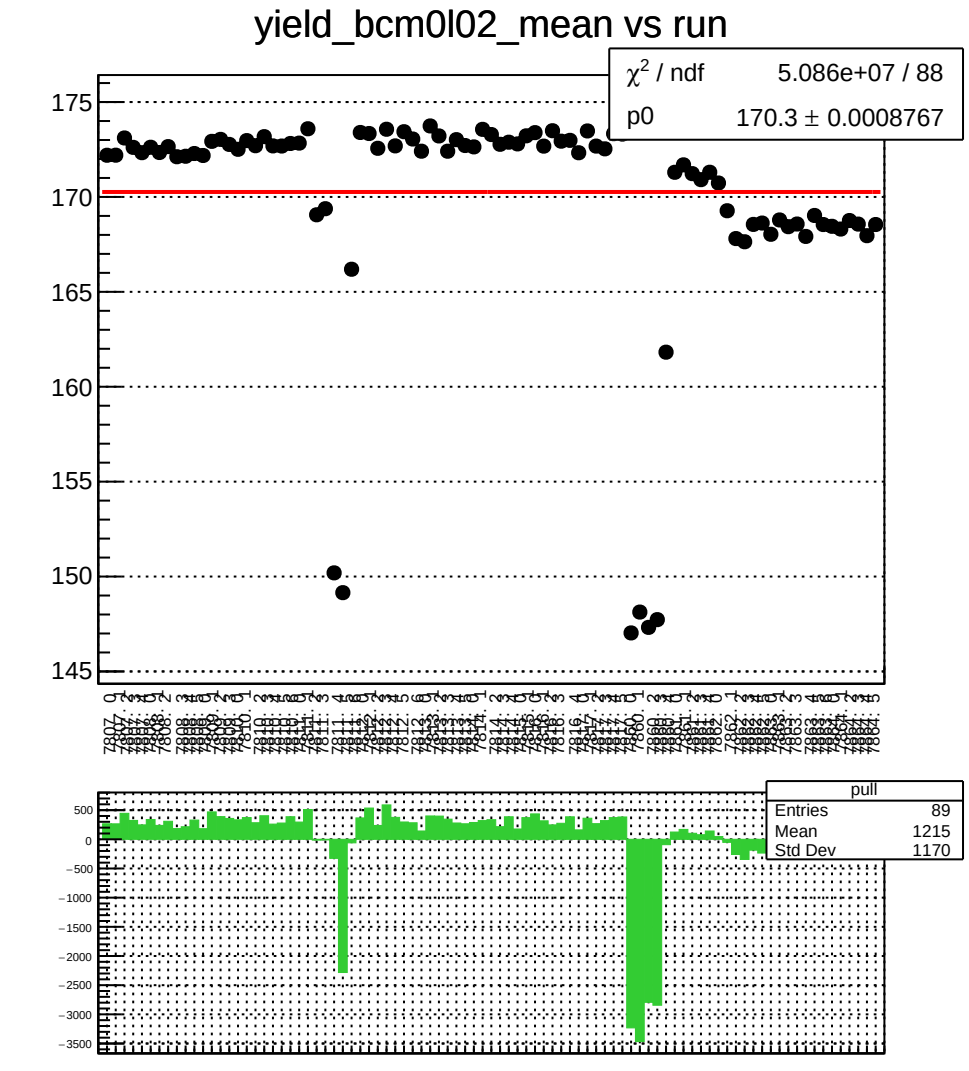

pull1D
Entries 89
Mean −2.018
Std Dev 4.04
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

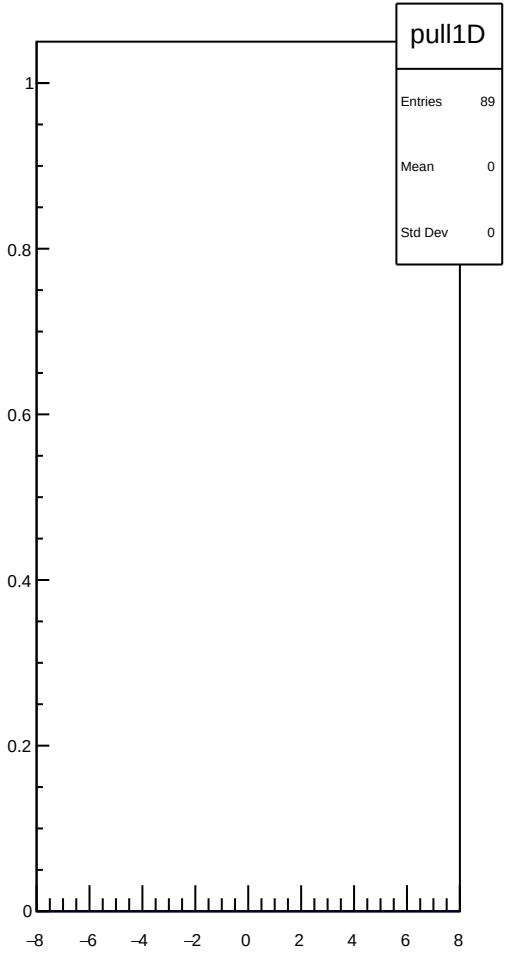

yield_cav4cQ_rms vs run
χ² / ndf 3.797e+05 / 88
p0 0.6113 ± 0.0005293
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

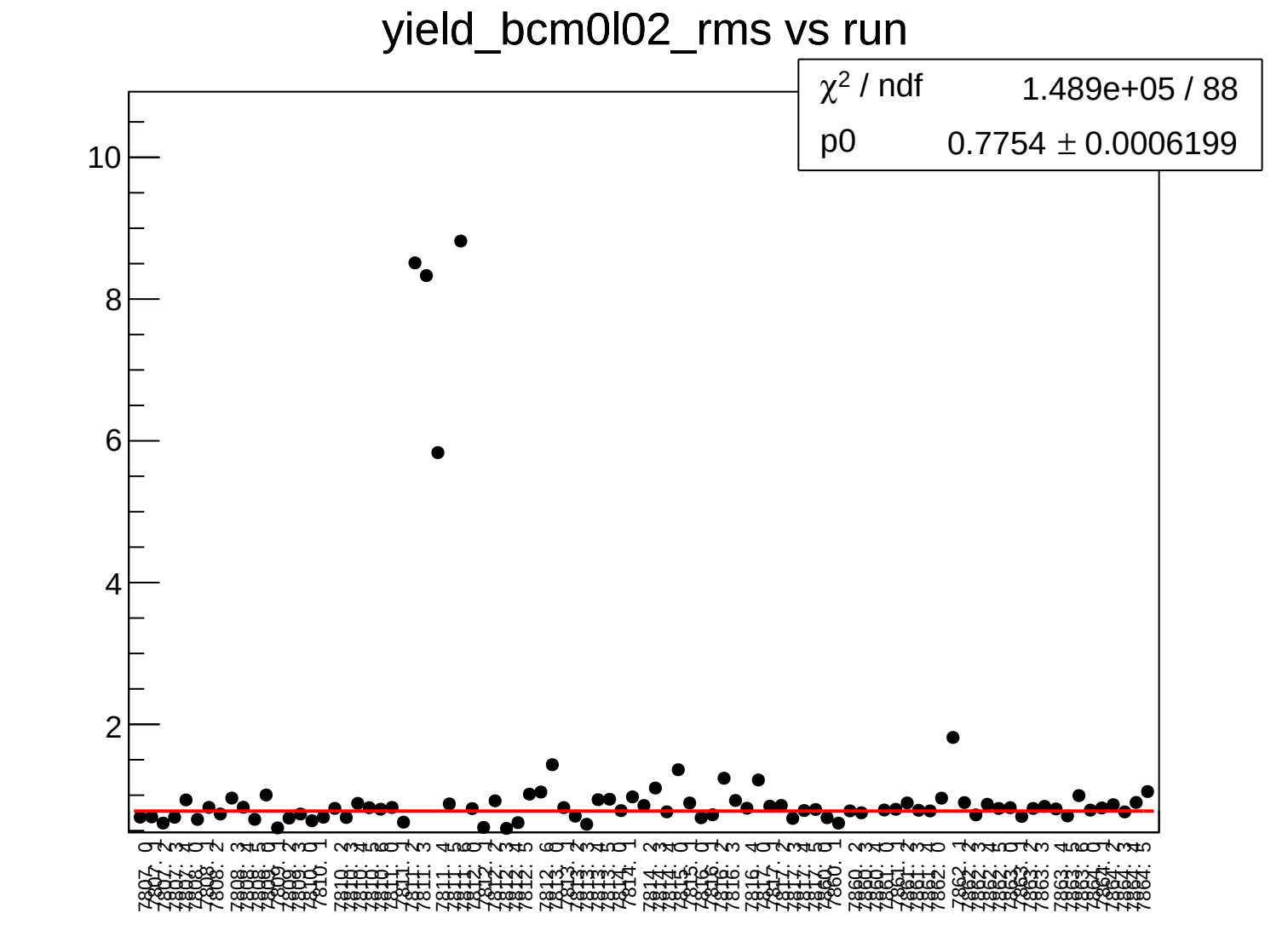

yield_cav4dQ_mean vs run
χ^2 / ndf 9.48e+05 / 88
p0 146.1± 0.0005066
147
146.5
146
145.5
145
pull
Entries 89
Mean 134.8
Std Dev 66.99
150
100
50
0
−50
−100
−150
−200
−250

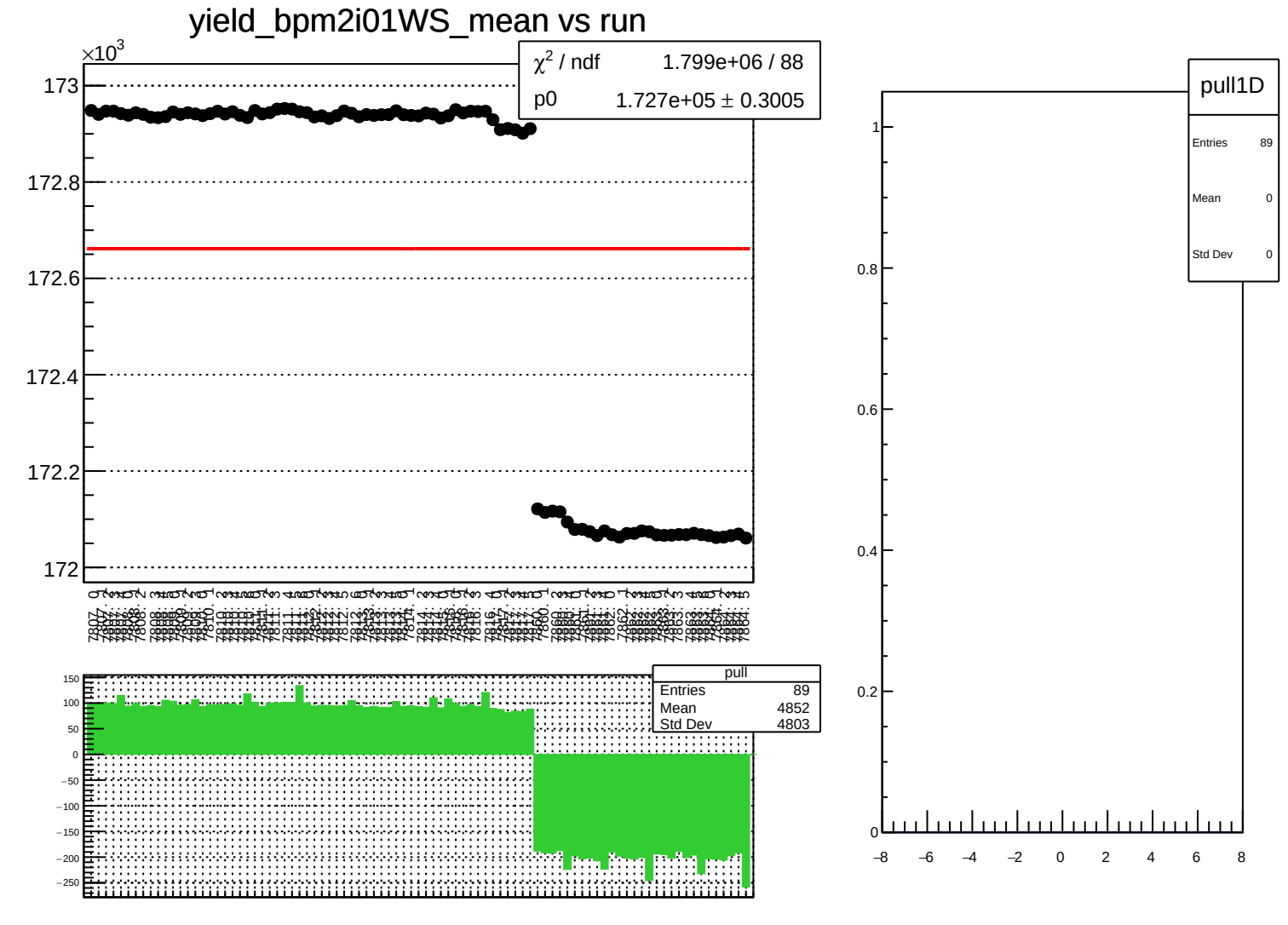

pull1D
Entries 89
Mean −3.166
Std Dev 4.182
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

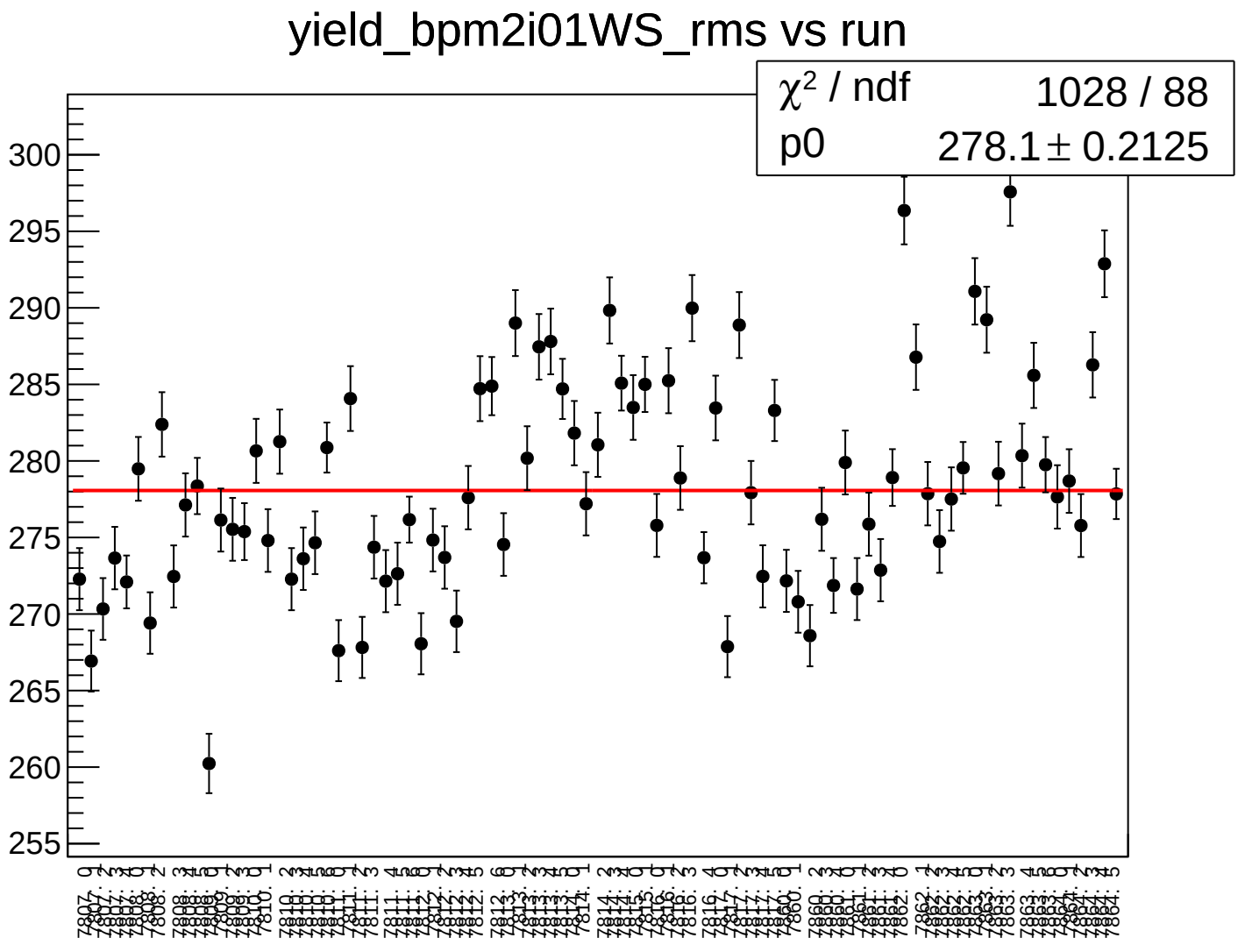

yield_cav4dQ_rms vs run
χ² / ndf 6.19e+04 / 88
p0 0.4603 ± 0.0003582
0.9
0.8
0.7
0.6
0.5
0.4
0.3

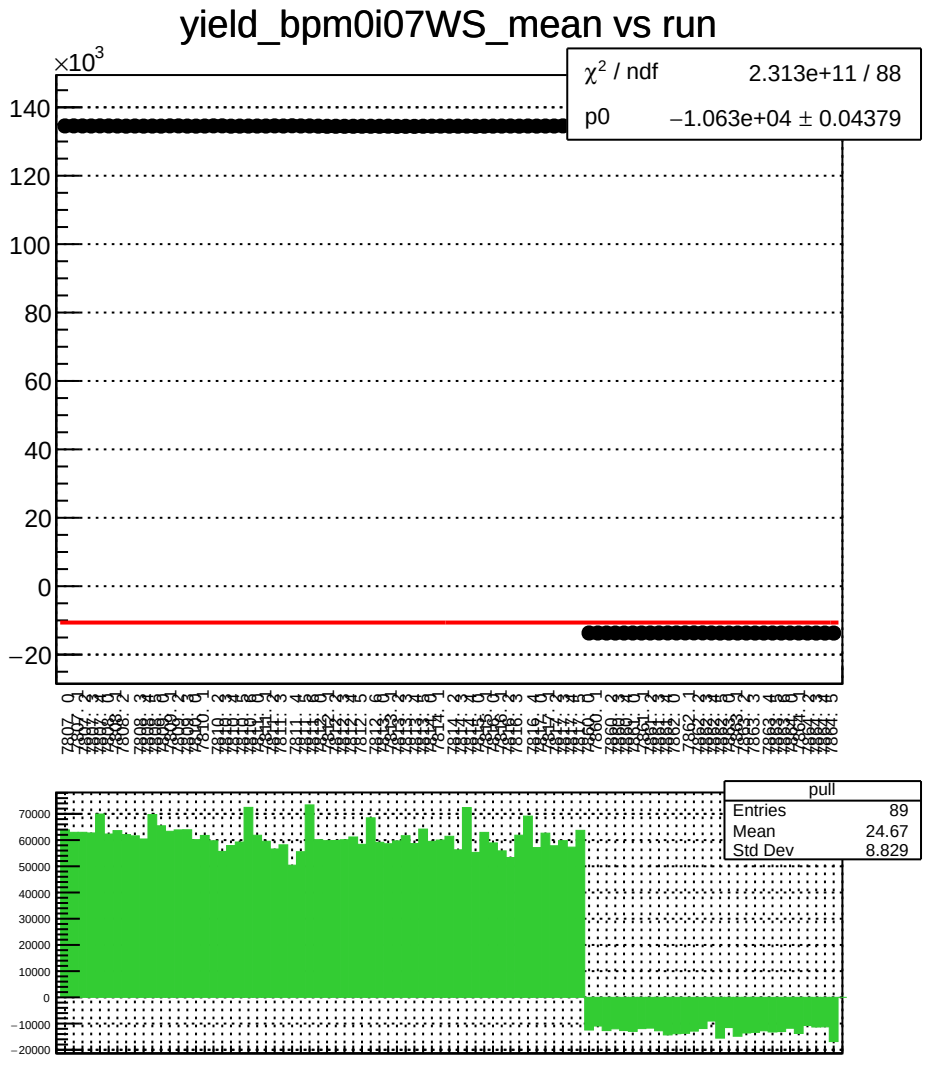

yield_bcm0l02_mean vs run
χ² / ndf 5.086e+07 / 88
p0 170.3 ± 0.0008767
175
170
165
160
155
150
145
pull
Entries 89
Mean 1215
Std Dev 1170
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

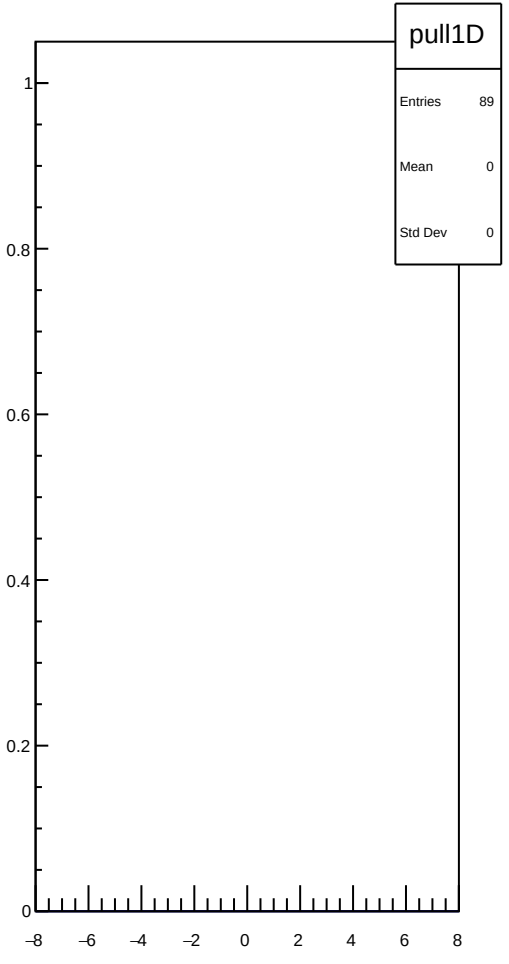

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

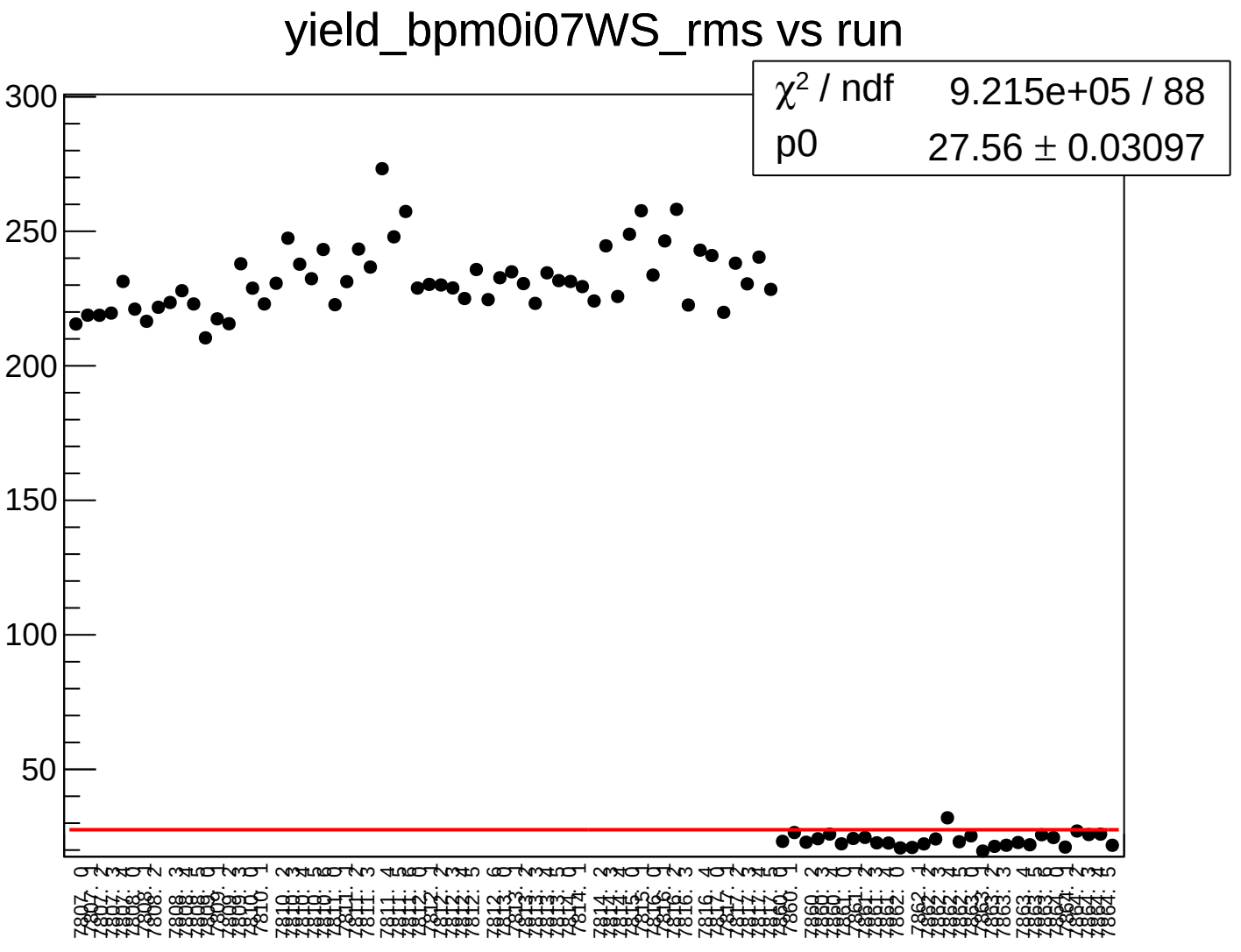

yield_bcm0l02_rms vs run
χ² / ndf 1.489e+05 / 88
p0 0.7754 ± 0.0006199
10
8
6
4
2

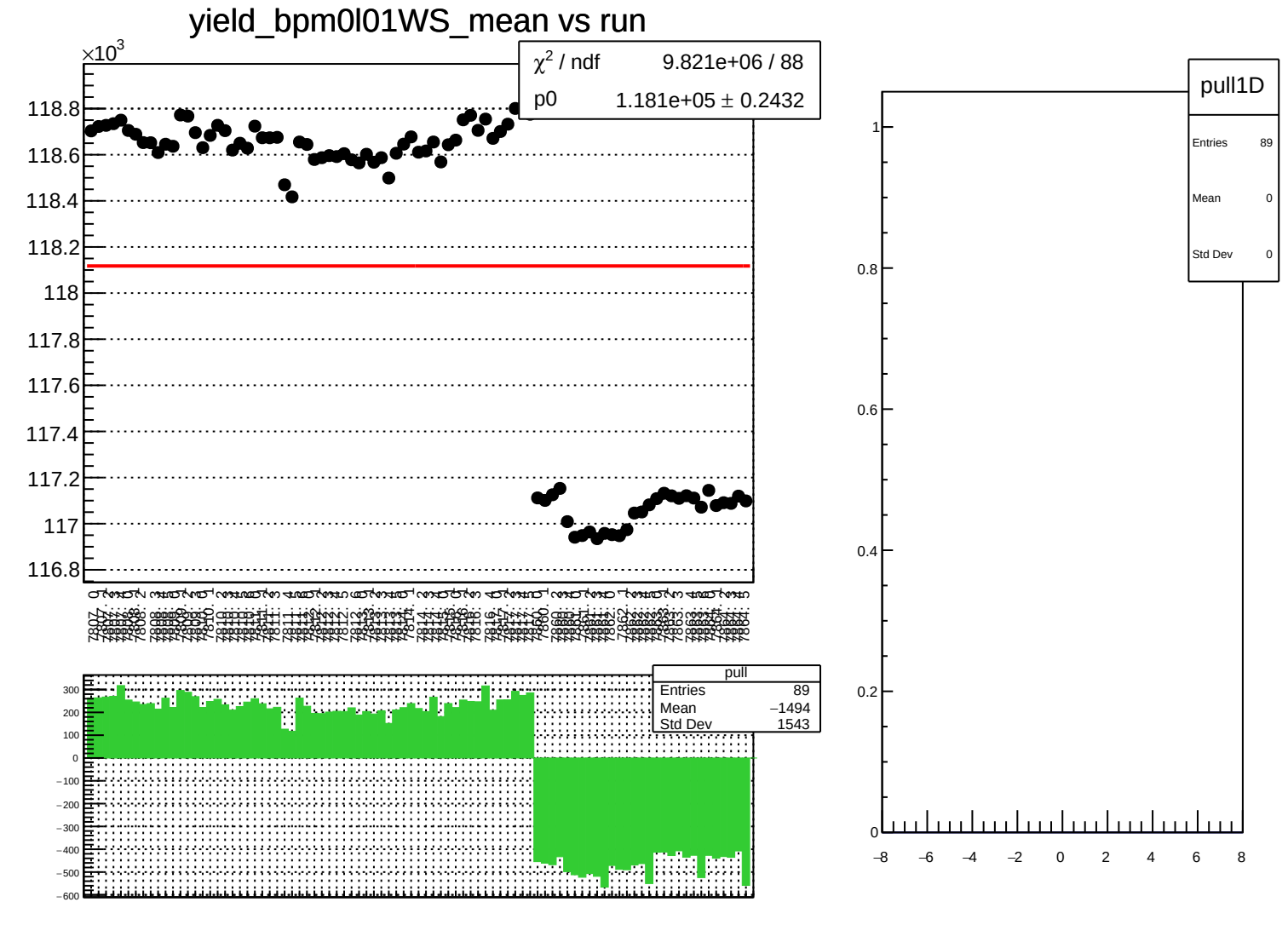

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.799e+06 / 88
p0 1.727e+05 ± 0.3005
173
172.8
172.6
172.4
172.2
172
pull
Entries 89
Mean 4852
Std Dev 4803
150
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

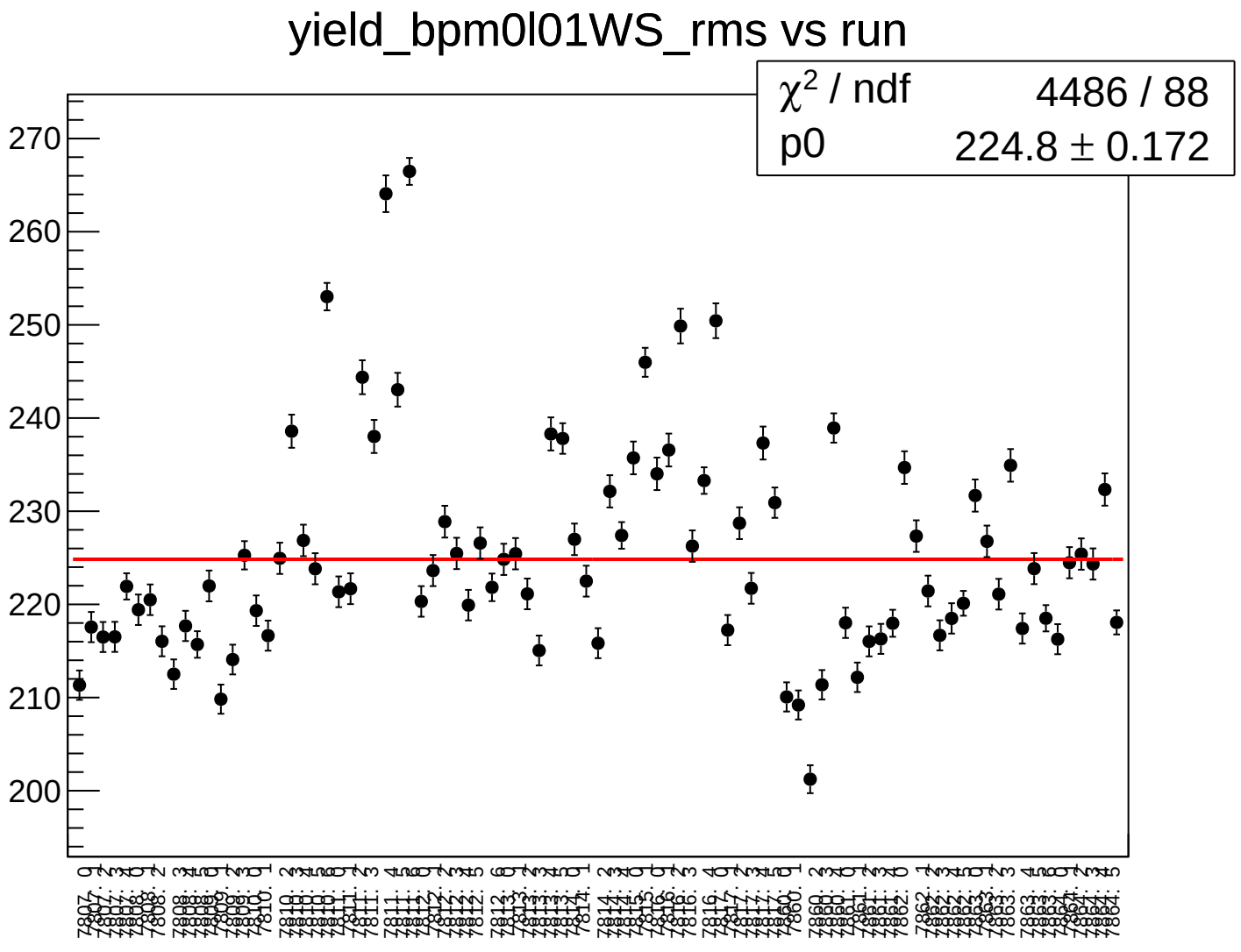

yield_bpm2i01WS_rms vs run
χ² / ndf 1028 / 88
p0 278.1 ± 0.2125
300
295
290
285
280
275
270
265
260
255

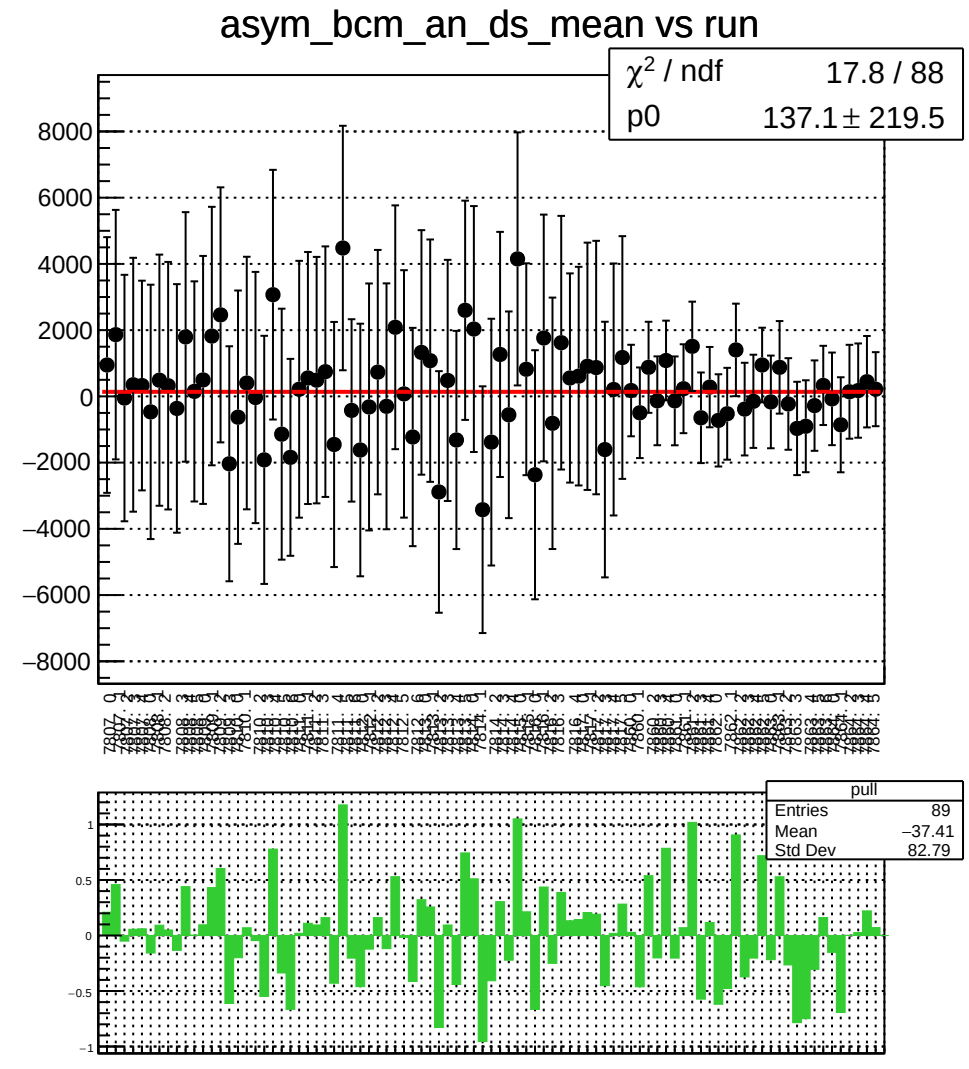

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 2.313e+11 / 88
p0 −1.063e+04 ± 0.04379
140
120
100
80
60
40
20
0
−20
pull
Entries 89
Mean 24.67
Std Dev 8.829
70000
60000
50000
40000
30000
20000
10000
0
−10000
−20000

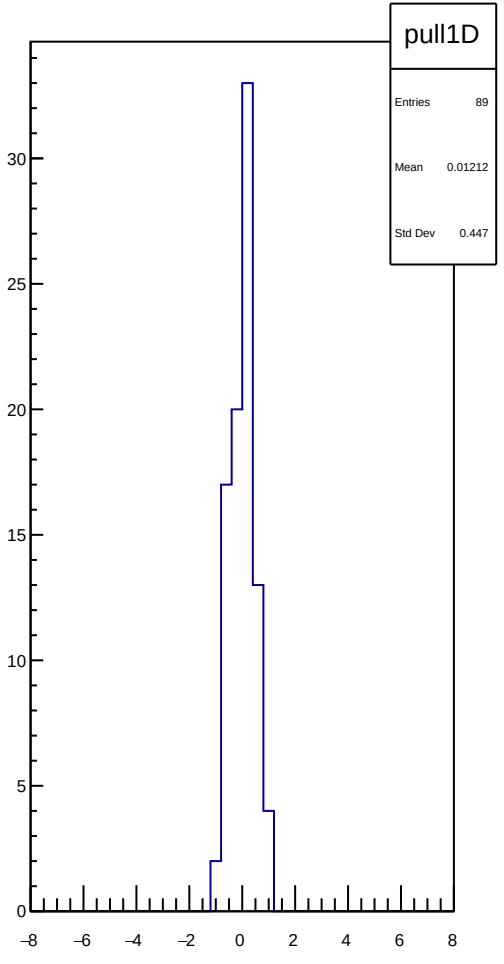

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

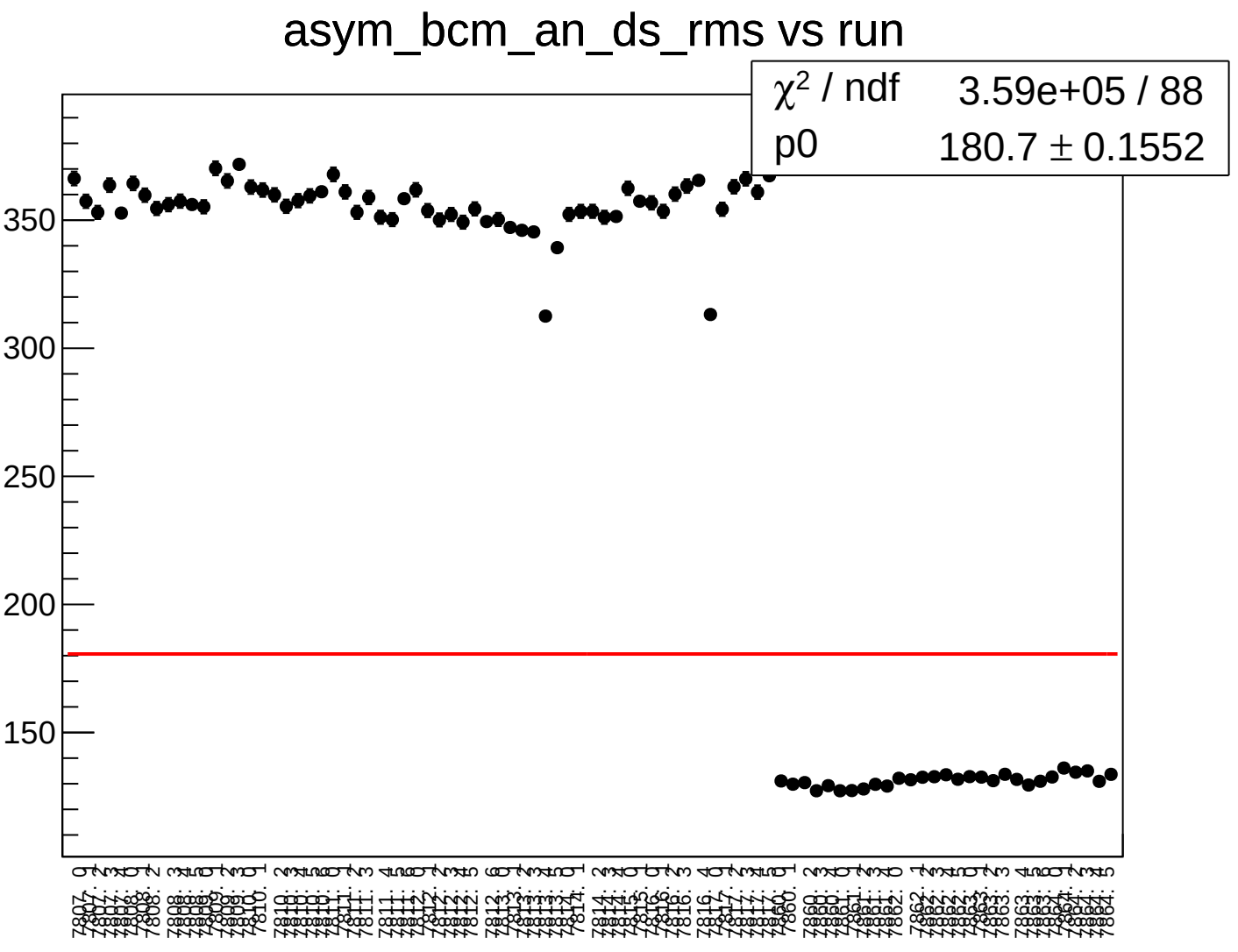

yield_bpm0i07WS_rms vs run
χ² / ndf 9.215e+05 / 88
p0 27.56 ± 0.03097
300
250
200
150
100
50

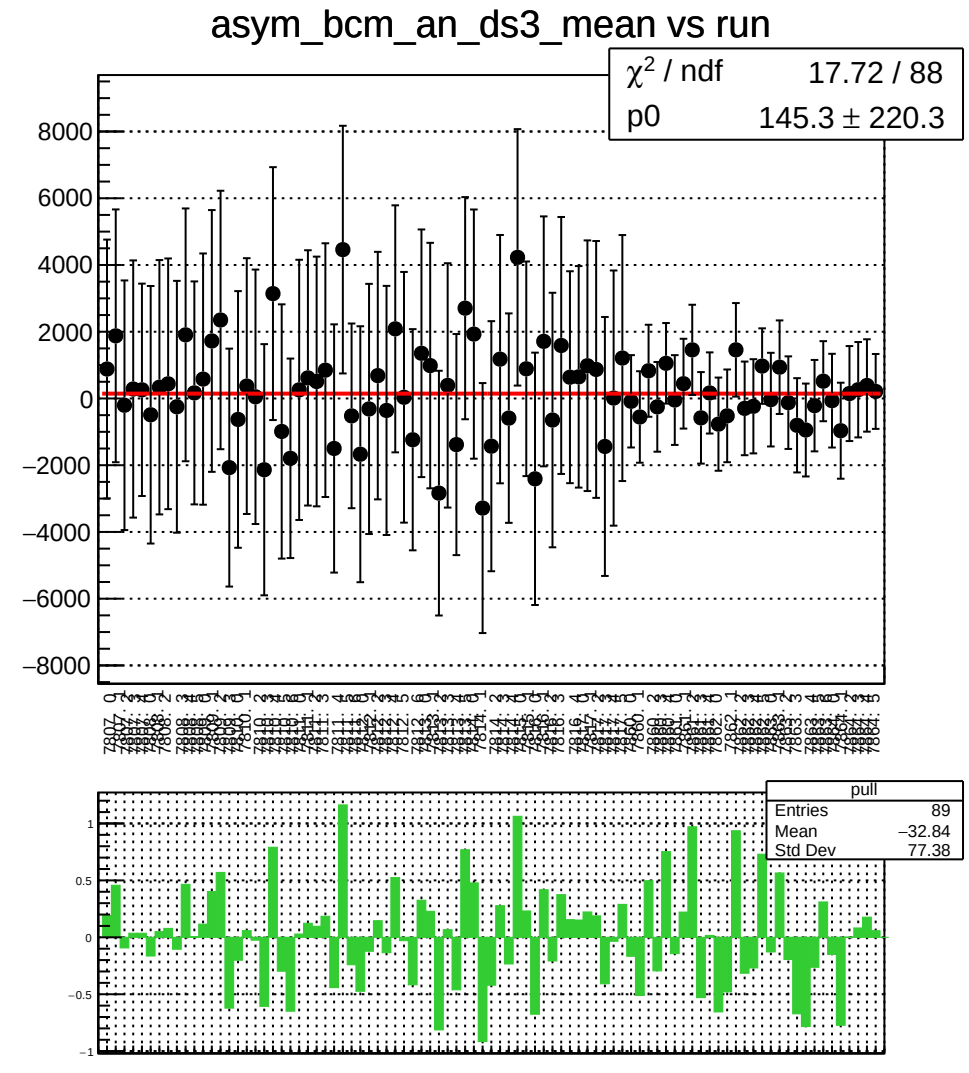

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 9.821e+06 / 88
p0 1.181e+05 ± 0.2432
118.8
118.6
118.4
118.2
118
117.8
117.6
117.4
117.2
117
116.8
pull
Entries 89
Mean −1494
Std Dev 1543
300
200
100
0
−100
−200
−300
−400
−500
−600
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

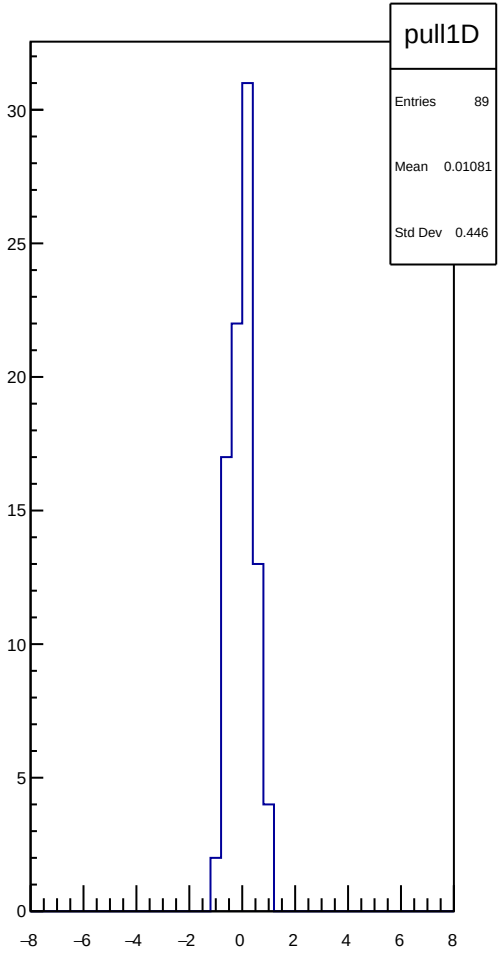

yield_bpm0l01WS_rms vs run
χ² / ndf 4486 / 88
p0 224.8 ± 0.172
270
260
250
240
230
220
210
200

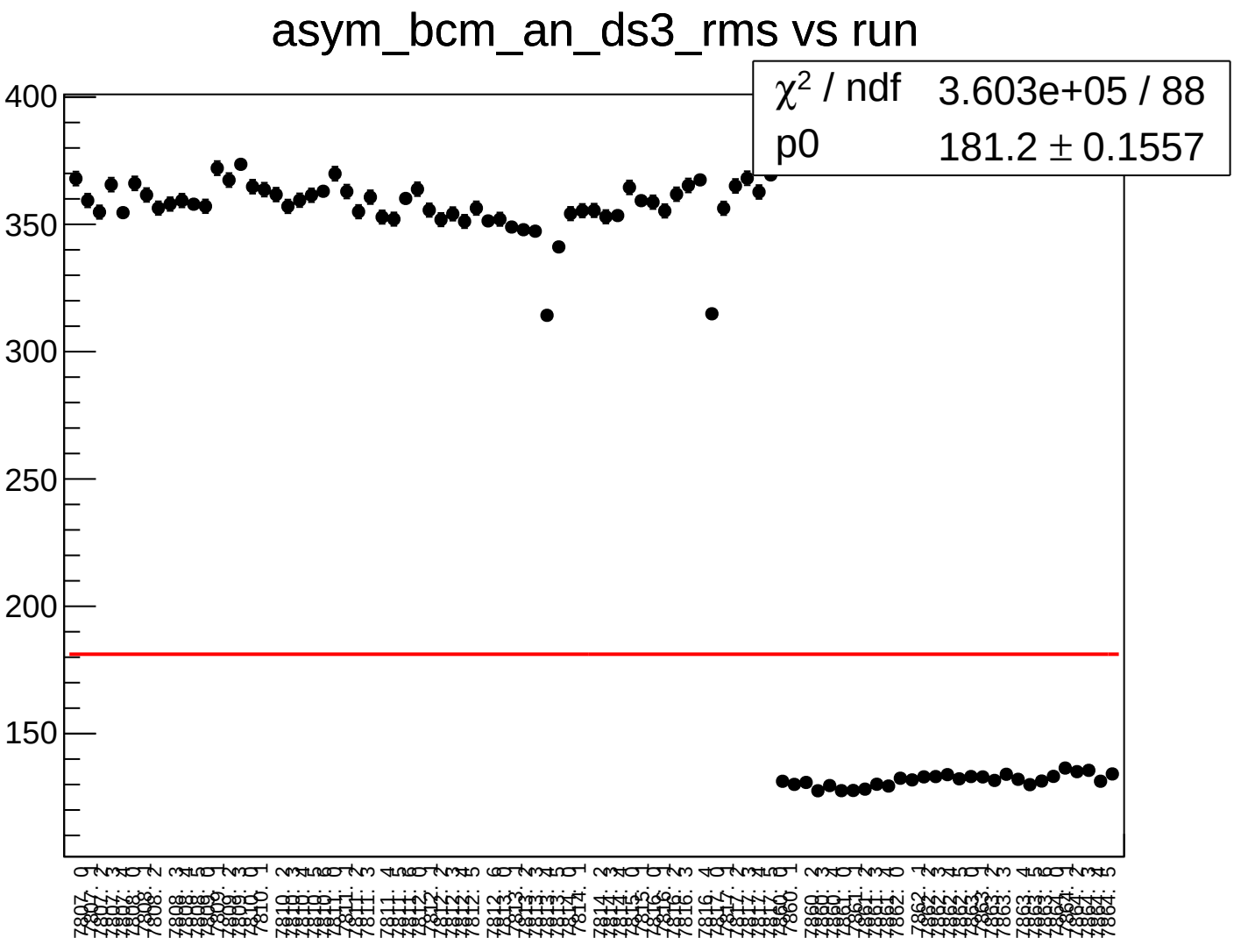

asym_bcm_an_ds_mean vs run
χ² / ndf 17.8 / 88
p0 137.1 ± 219.5
pull
Entries 89
Mean −37.41
Std Dev 82.79

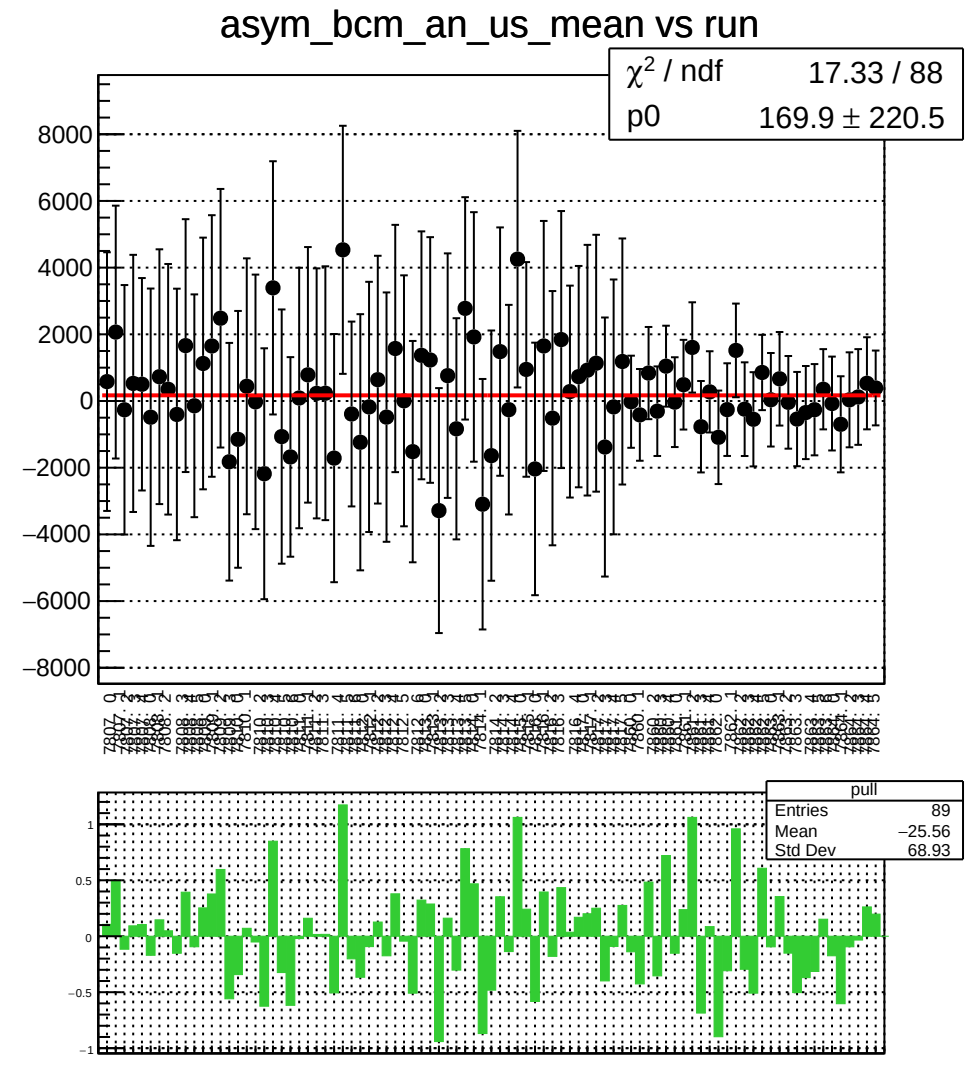

pull1D
Entries 89
Mean 0.01212
Std Dev 0.447

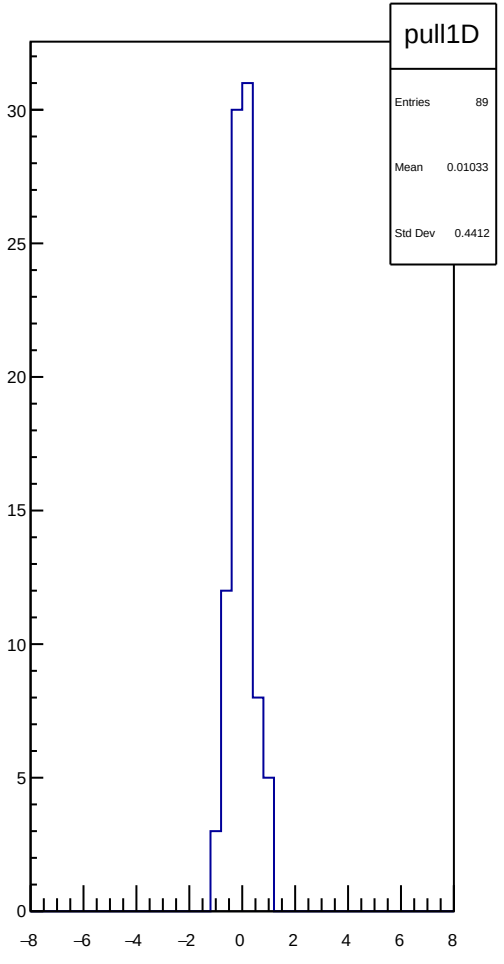

asym_bcm_an_ds_rms vs run
χ² / ndf 3.59e+05 / 88
p0 180.7 ± 0.1552
350
300
250
200
150

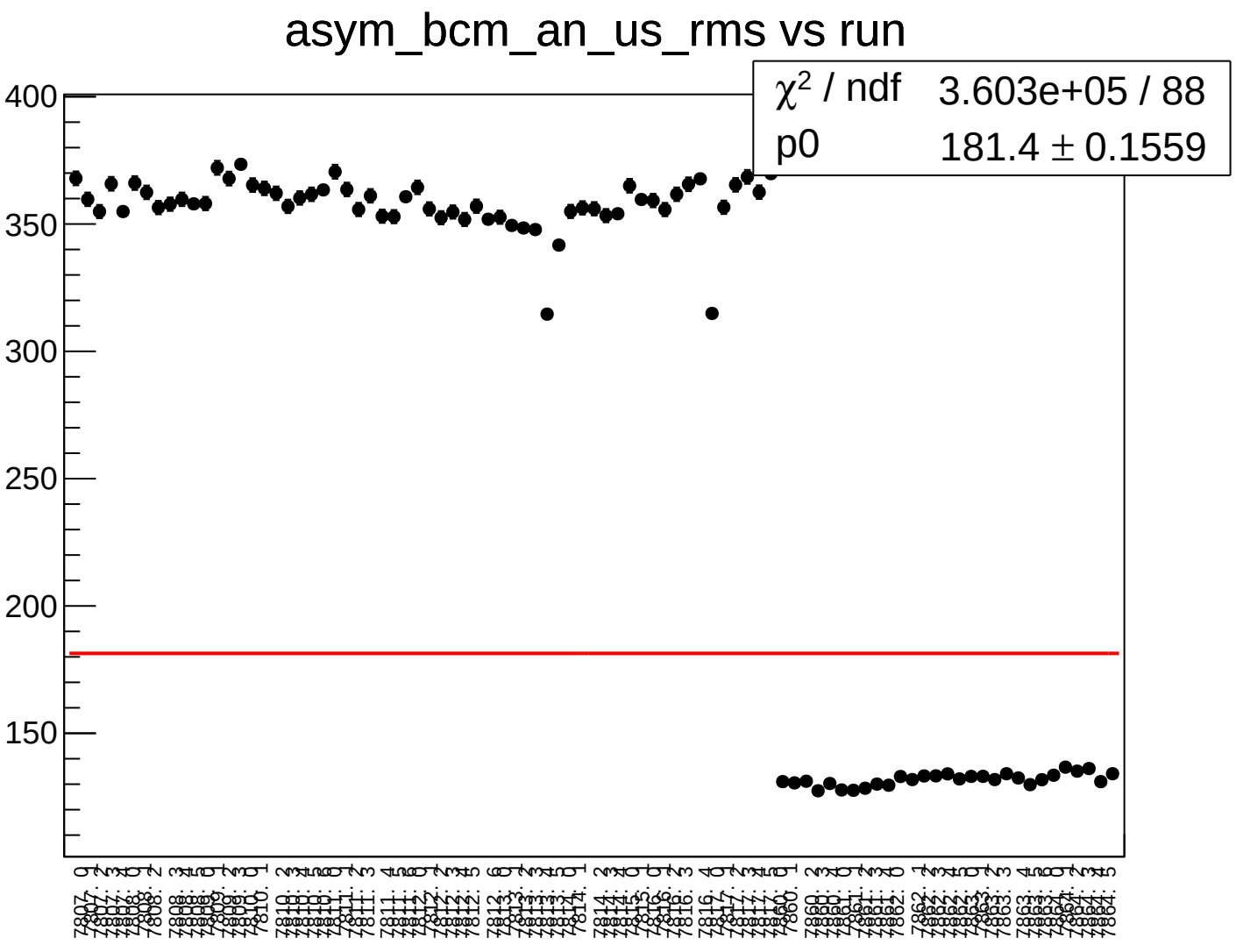

asym_bcm_an_ds3_mean vs run
χ² / ndf 17.72 / 88
p0 145.3 ± 220.3
pull
Entries 89
Mean −32.84
Std Dev 77.38

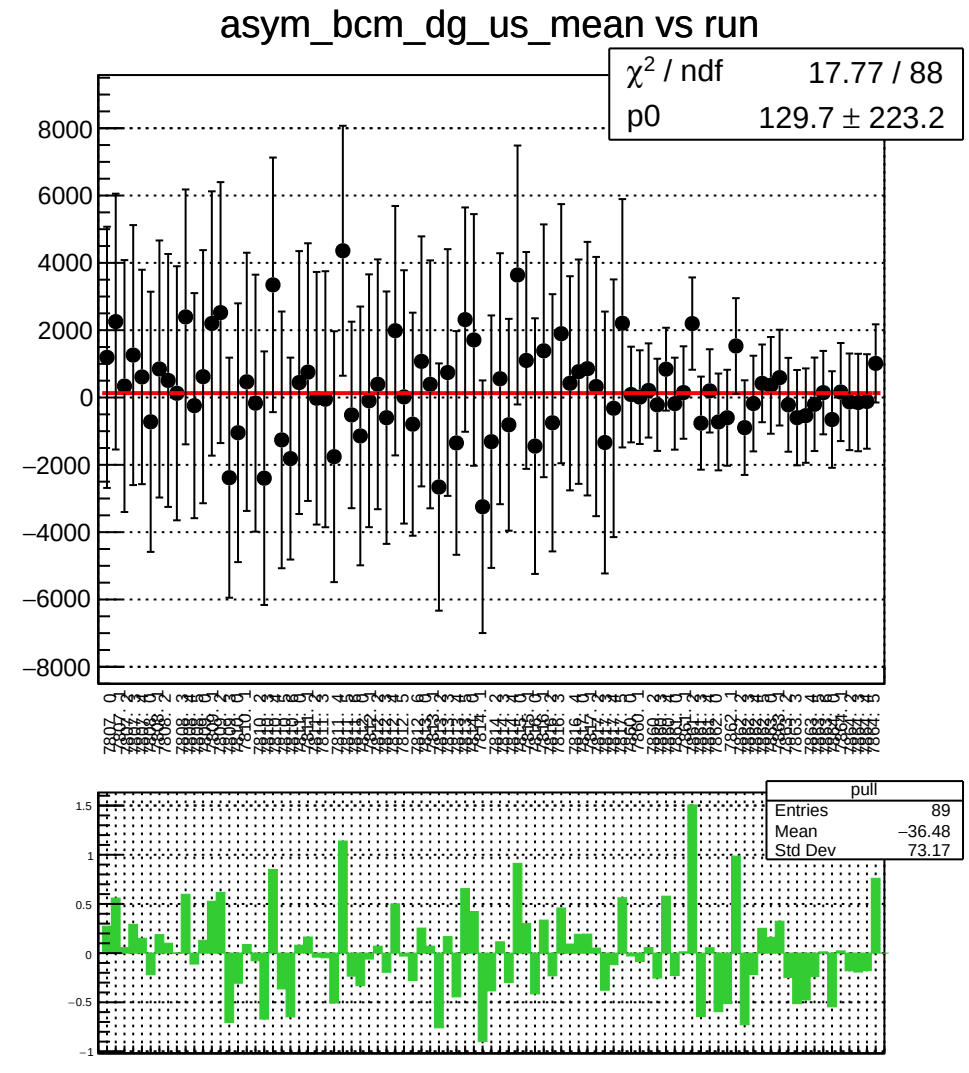

pull1D
Entries 89
Mean 0.01081
Std Dev 0.446

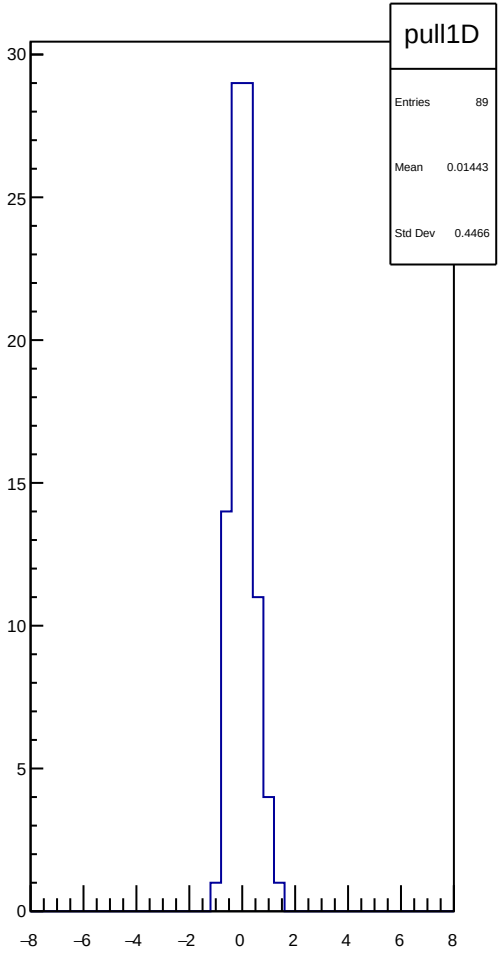

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 3.603e+05 / 88
p0 181.2 ± 0.1557
400
350
300
250
200
150

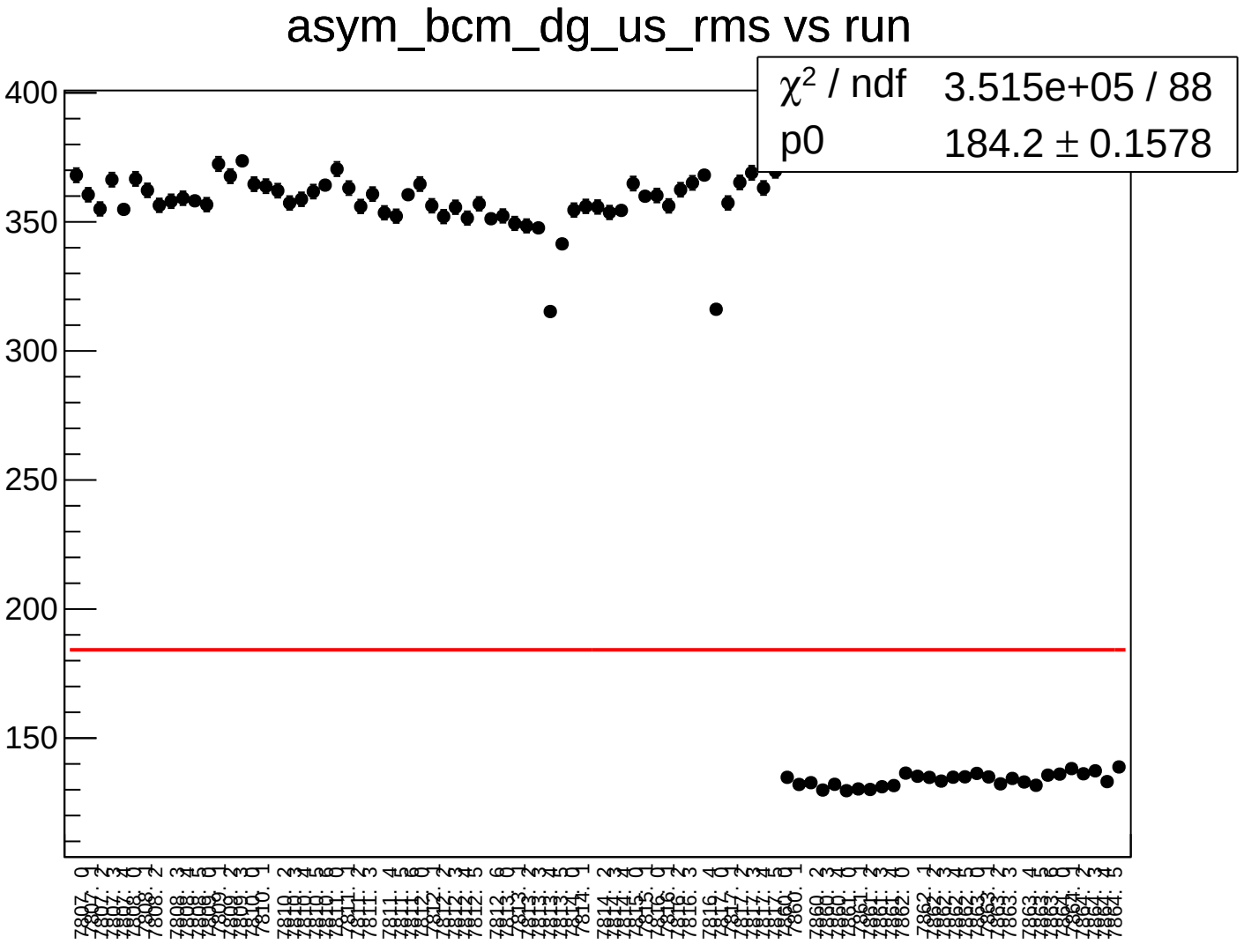

asym_bcm_an_us_mean vs run
χ² / ndf 17.33 / 88
p0 169.9 ± 220.5
pull
Entries 89
Mean −25.56
Std Dev 68.93

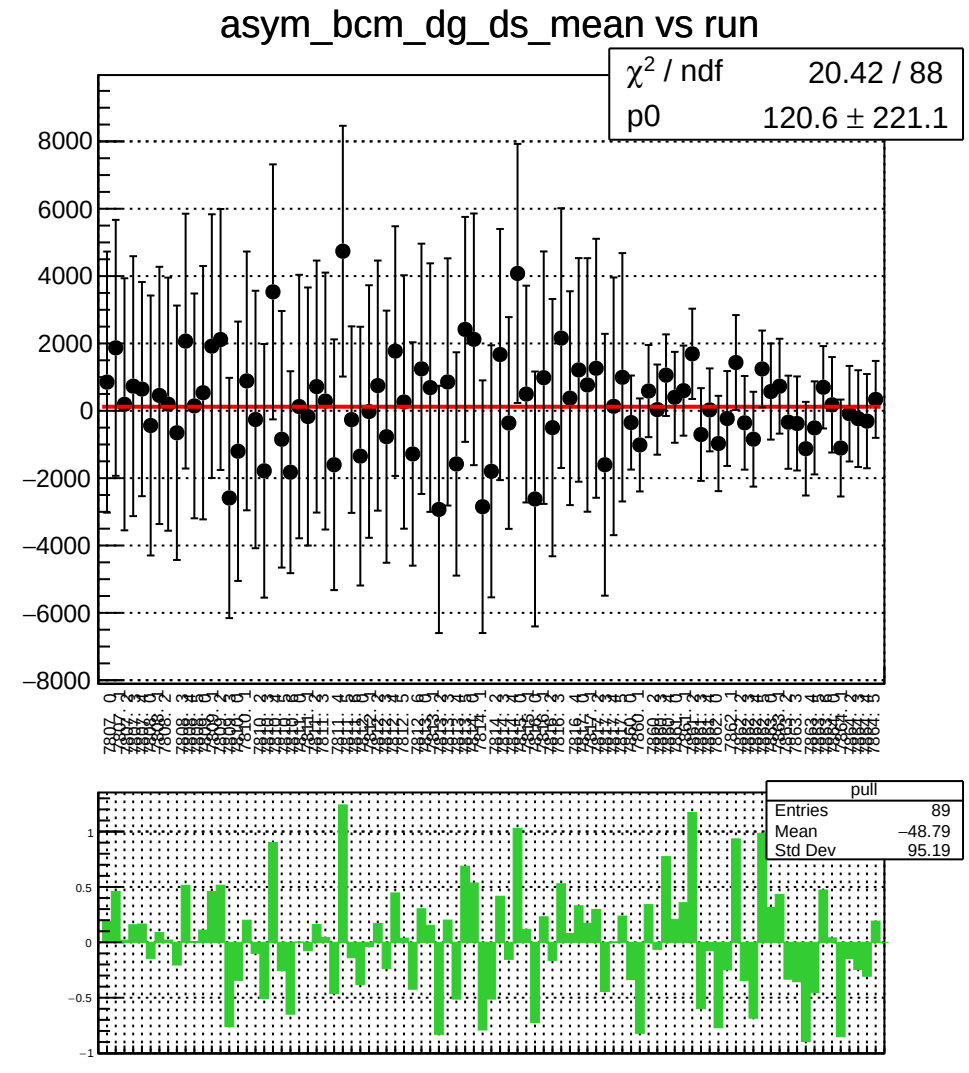

pull1D
Entries 89
Mean 0.01033
Std Dev 0.4412

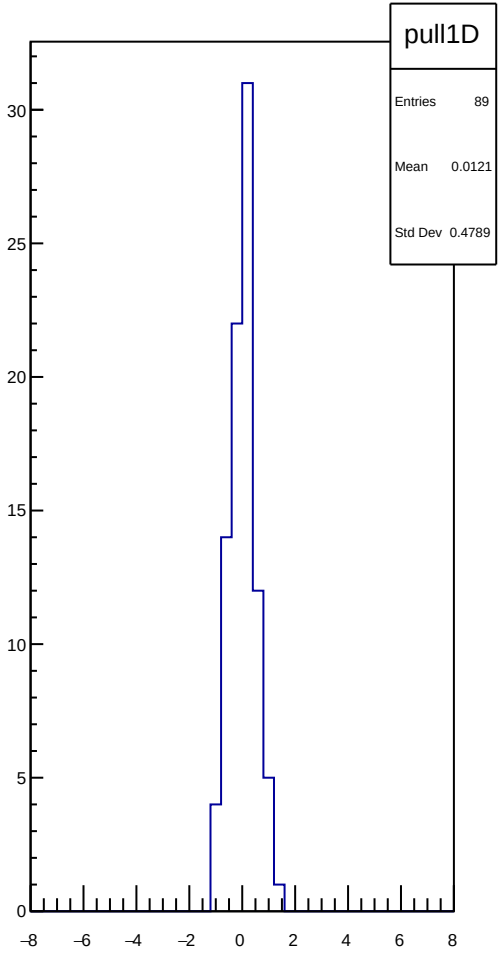

asym_bcm_an_us_rms vs run
χ² / ndf 3.603e+05 / 88
p0 181.4 ± 0.1559
400
350
300
250
200
150

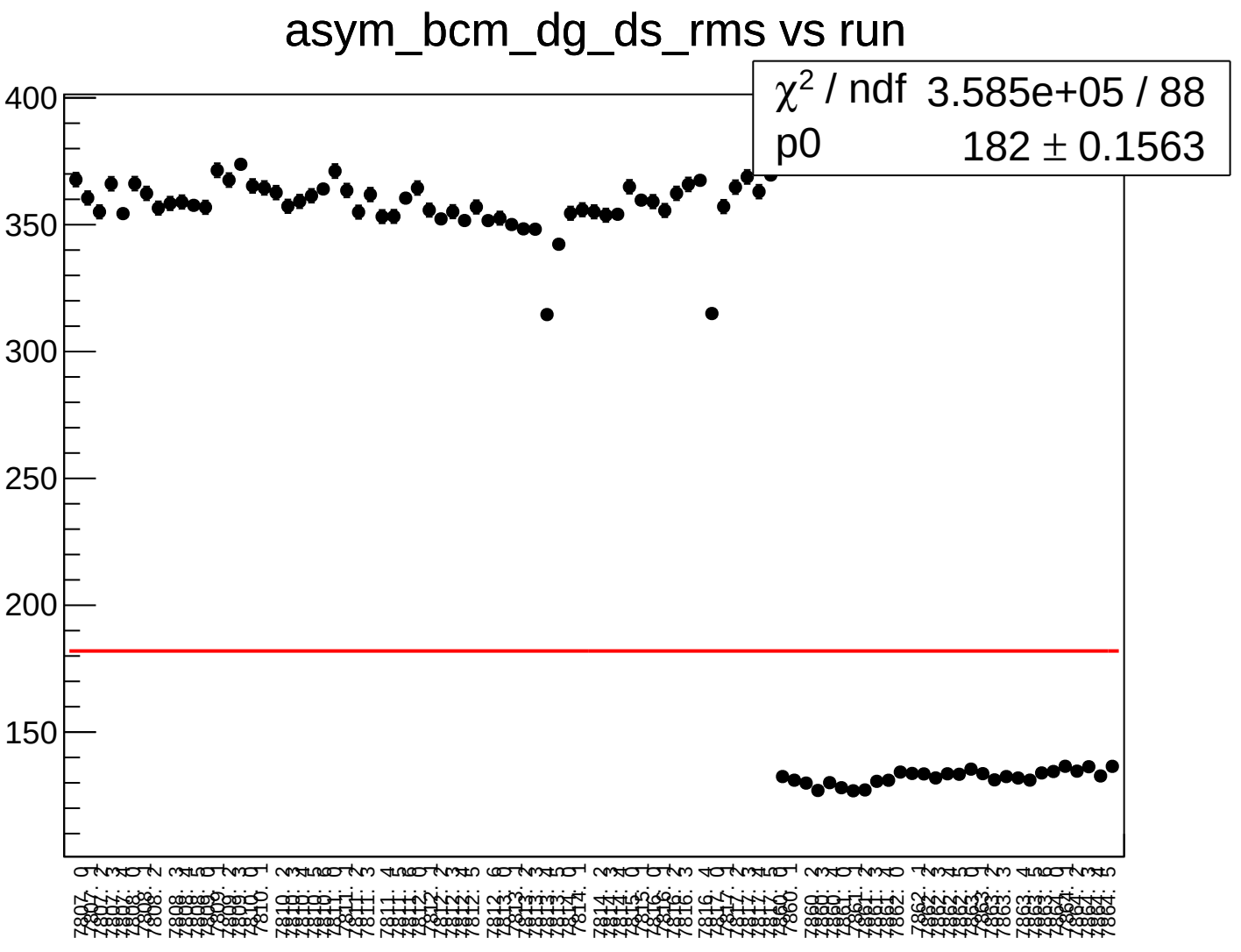

asym_bcm_dg_us_mean vs run
χ² / ndf 17.77 / 88
p0 129.7 ± 223.2
pull
Entries 89
Mean −36.48
Std Dev 73.17

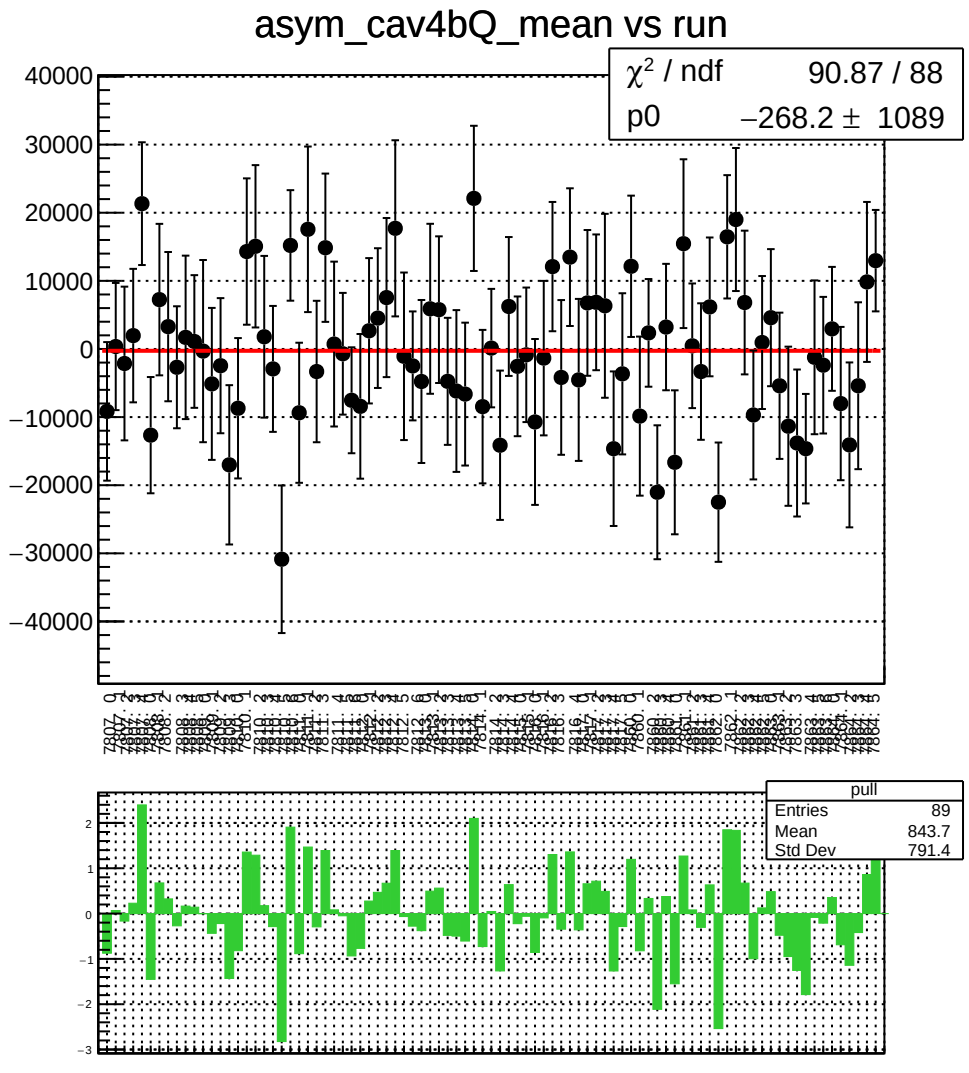

pull1D
Entries 89
Mean 0.01443
Std Dev 0.4466

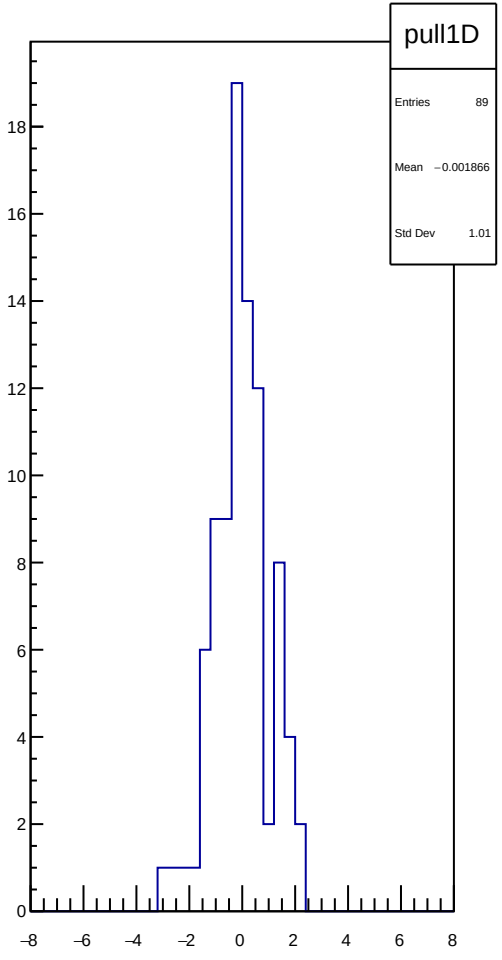

asym_bcm_dg_us_rms vs run
χ² / ndf 3.515e+05 / 88
p0 184.2 ± 0.1578
400
350
300
250
200
150

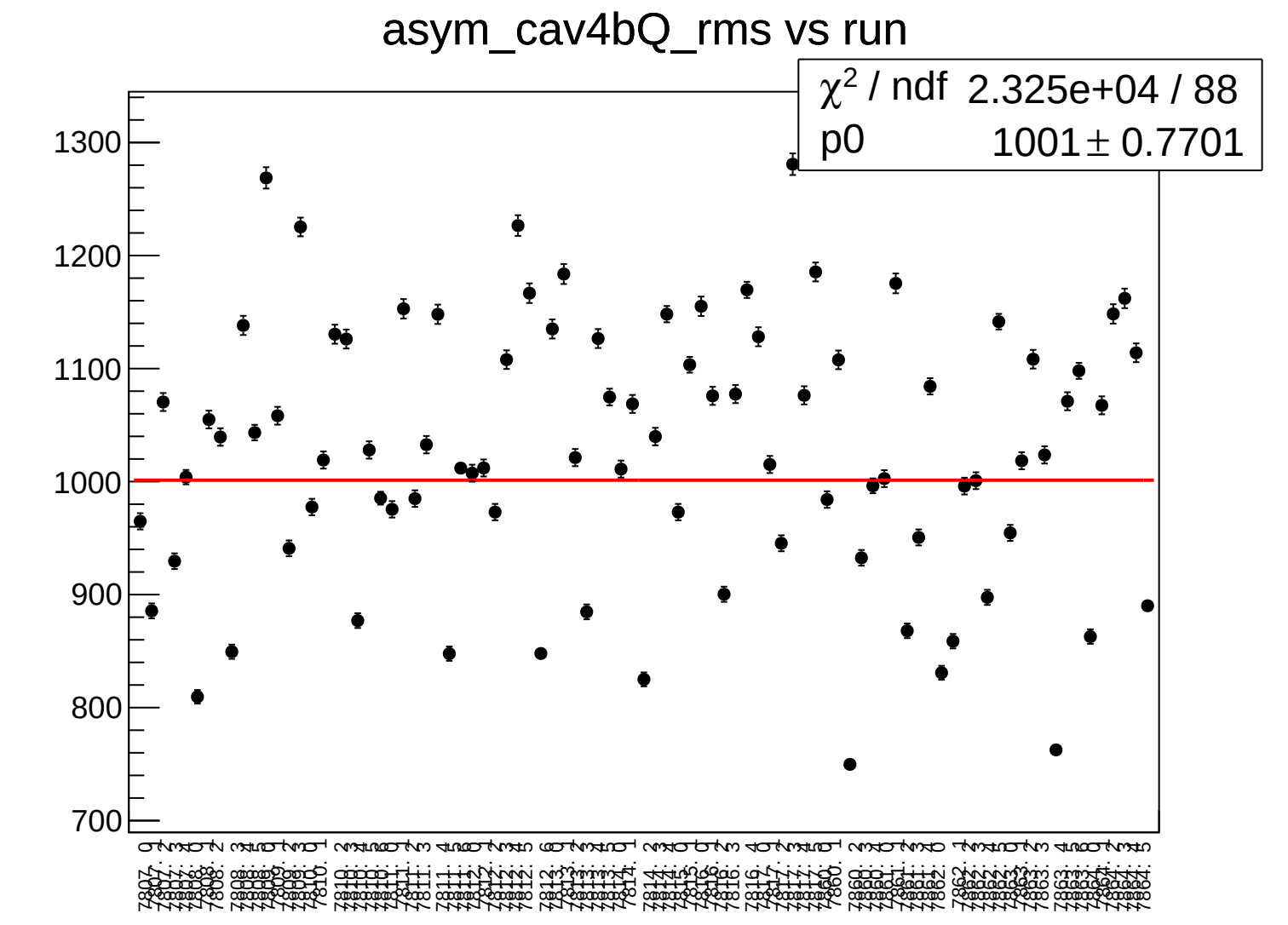

asym_bcm_dg_ds_mean vs run
χ² / ndf 20.42 / 88
p0 120.6 ± 221.1
pull
Entries 89
Mean −48.79
Std Dev 95.19

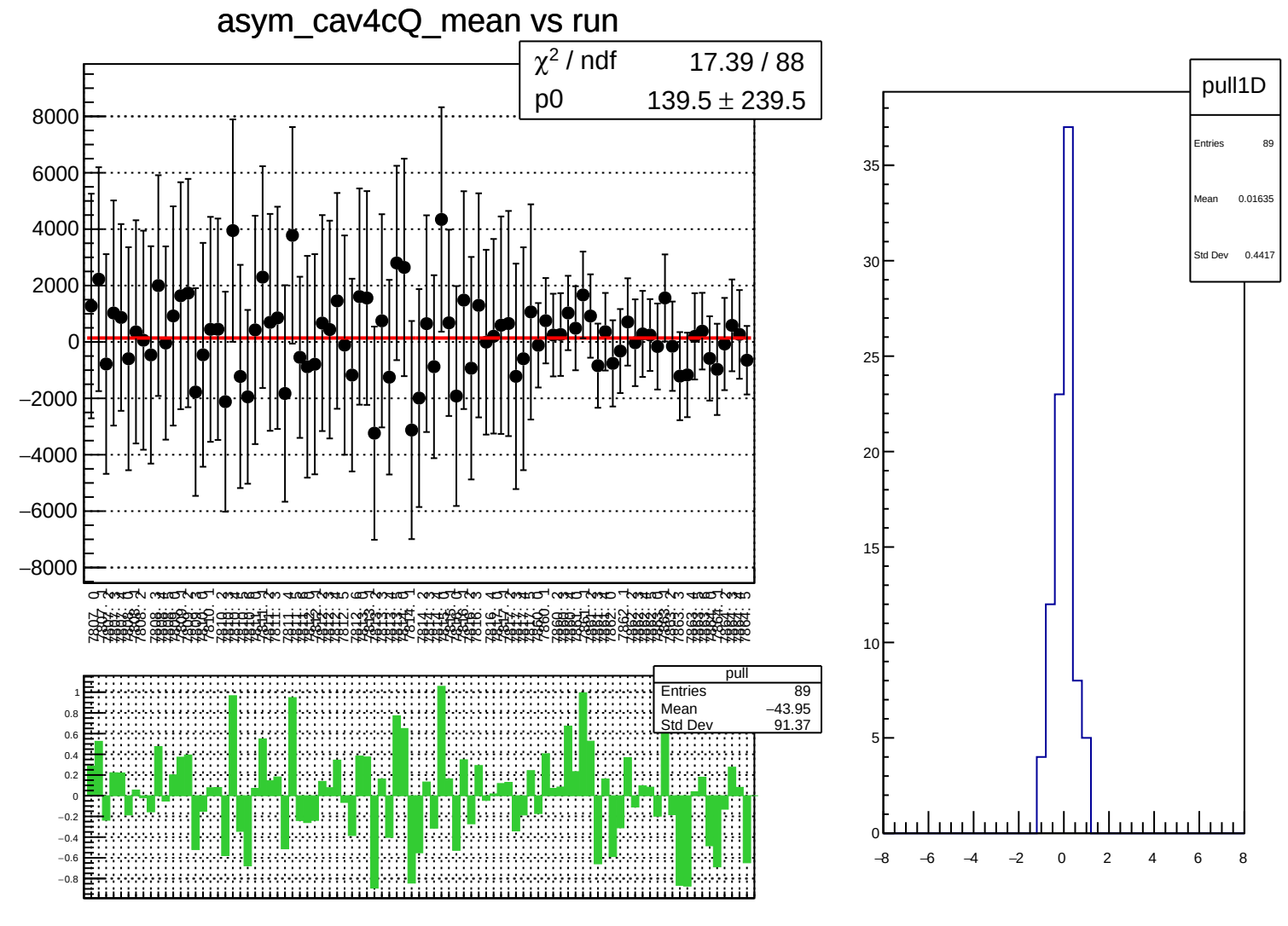

pull1D
Entries 89
Mean 0.0121
Std Dev 0.4789

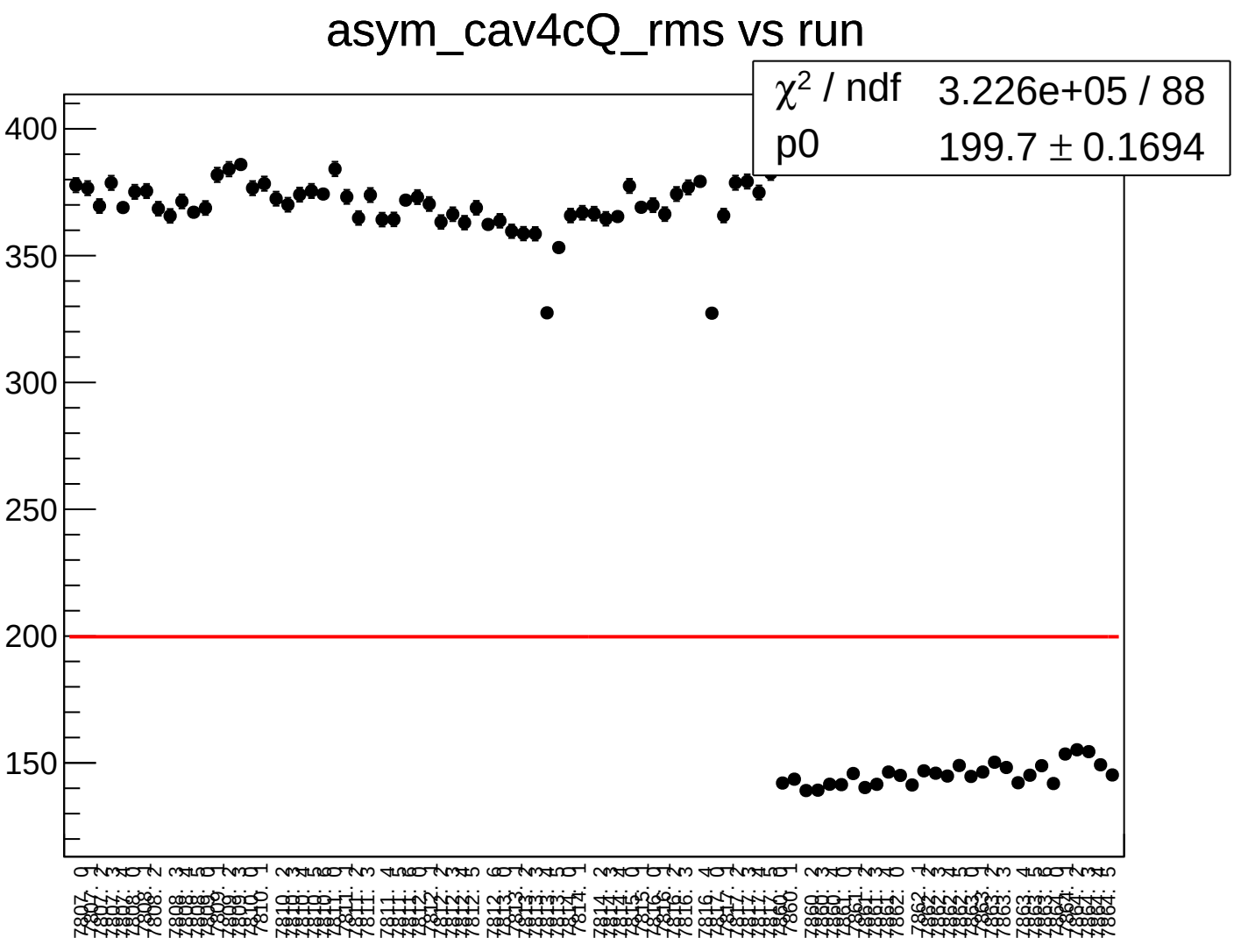

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 3.585e+05 / 88
p0 182 ± 0.1563
400
350
300
250
200
150

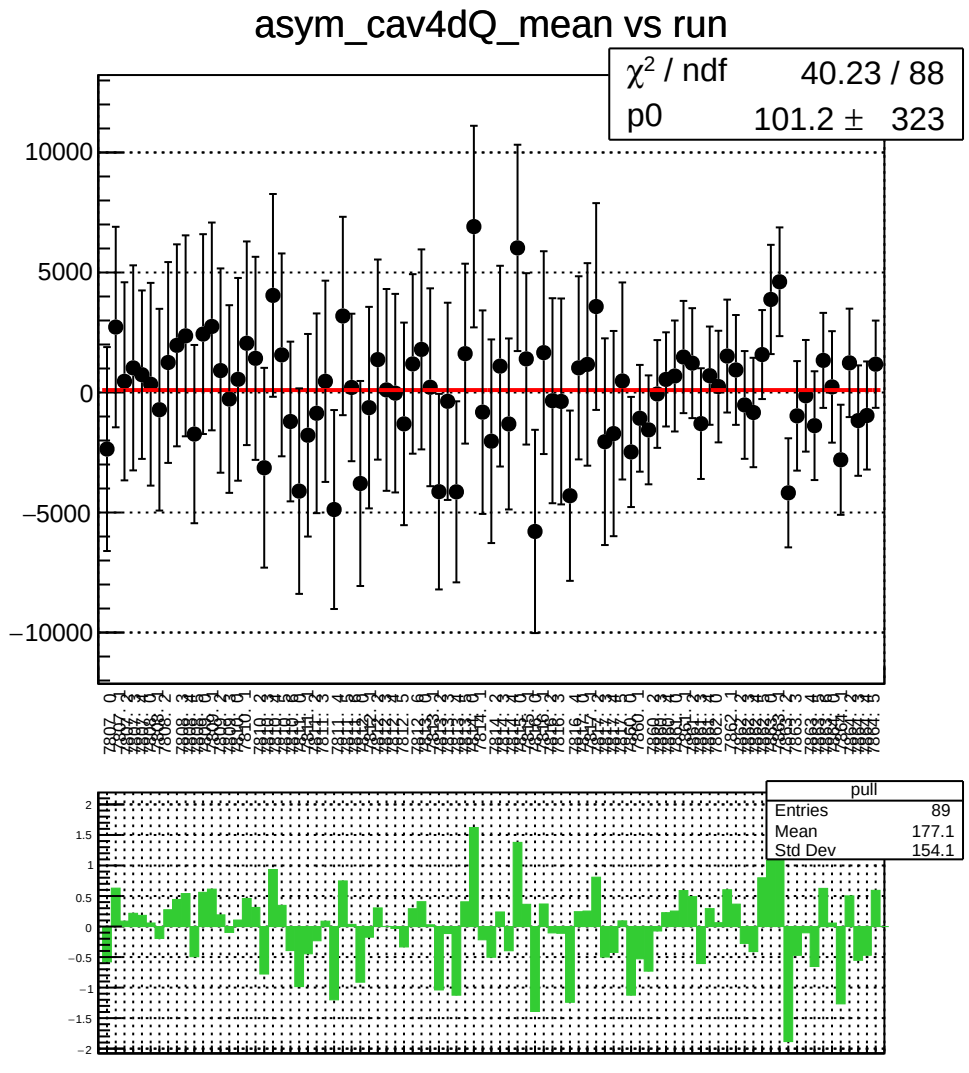

asym_cav4bQ_mean vs run
χ² / ndf 90.87 / 88
p0 −268.2 ± 1089
pull
Entries 89
Mean 843.7
Std Dev 791.4

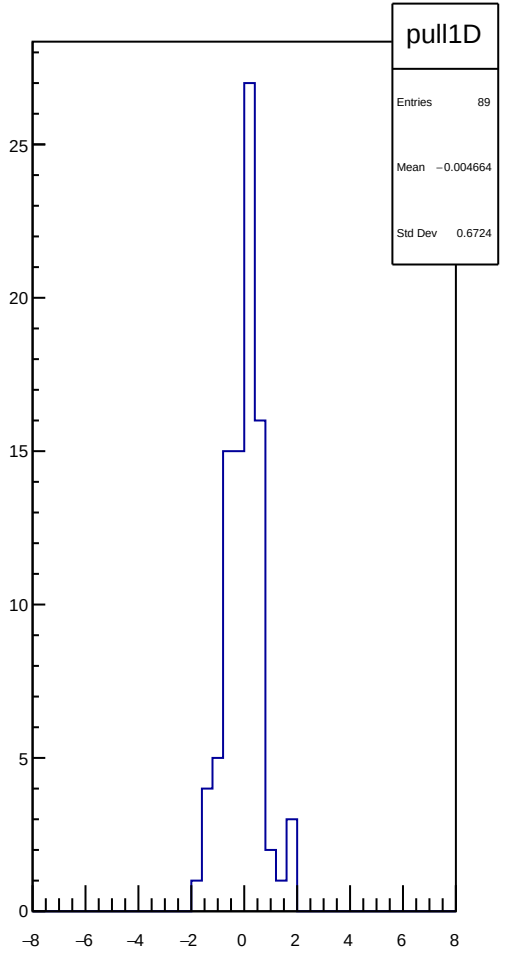

pull1D
Entries 89
Mean −0.001866
Std Dev 1.01

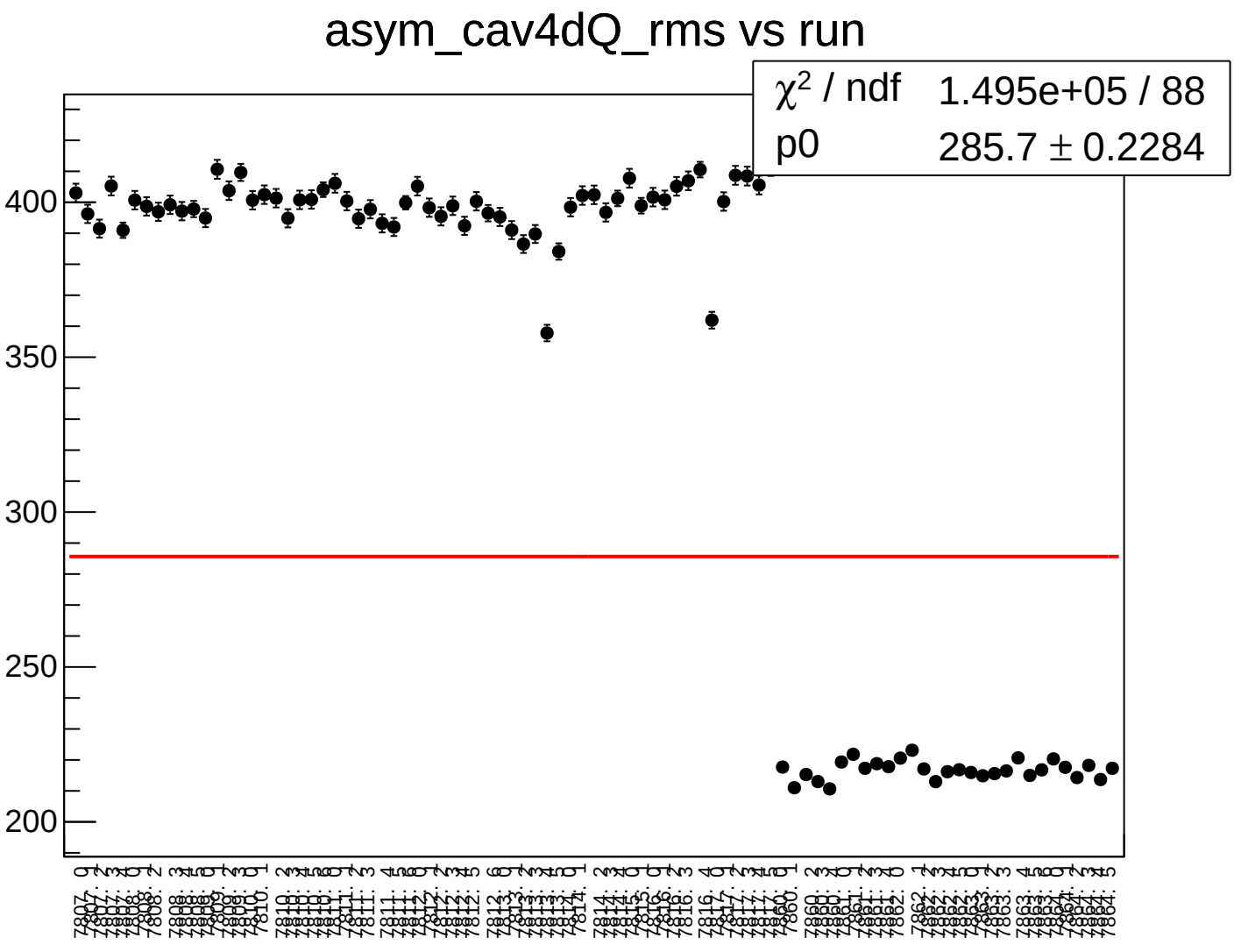

asym_cav4bQ_rms vs run
χ² / ndf 2.325e+04 / 88
p0 1001 ± 0.7701
1300
1200
1100
1000
900
800
700

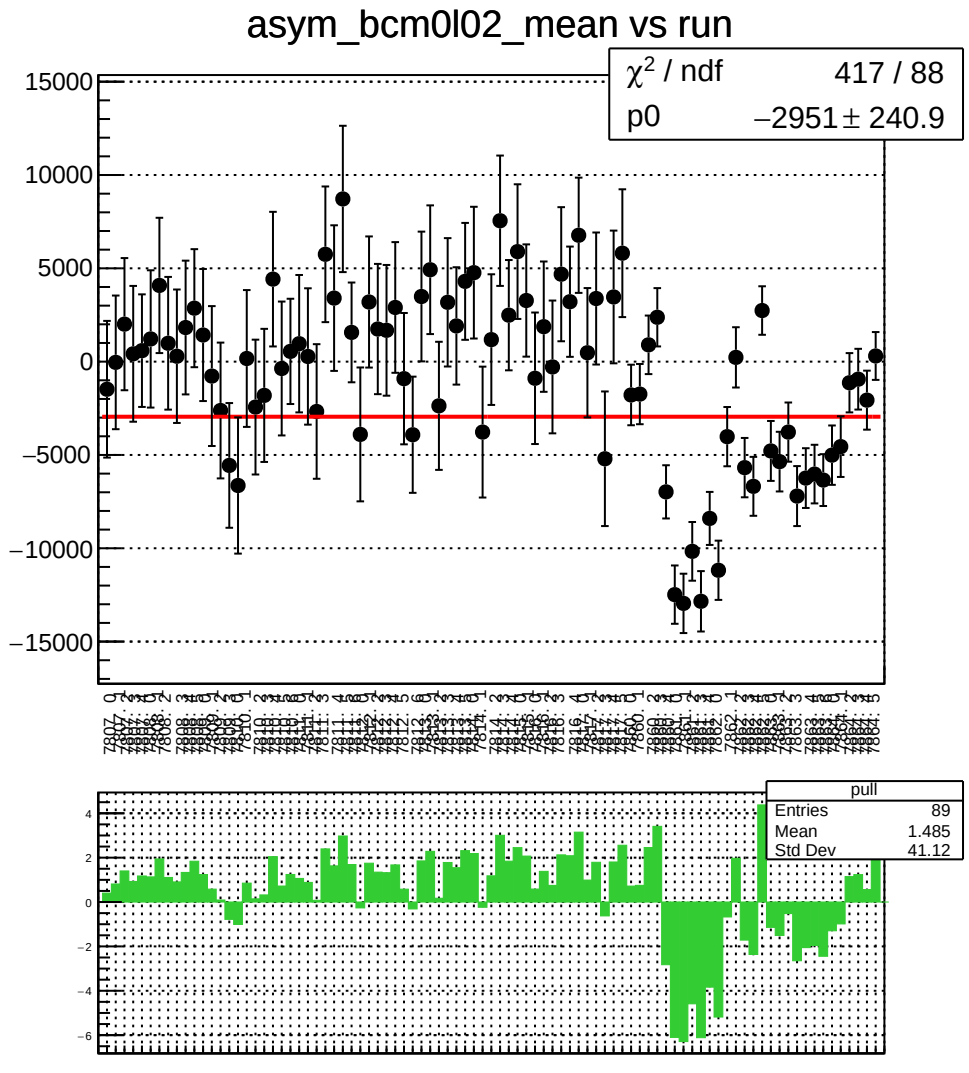

asym_cav4cQ_mean vs run
χ² / ndf 17.39 / 88
p0 139.5 ± 239.5
pull
Entries 89
Mean −43.95
Std Dev 91.37
pull1D
Entries 89
Mean 0.01635
Std Dev 0.4417

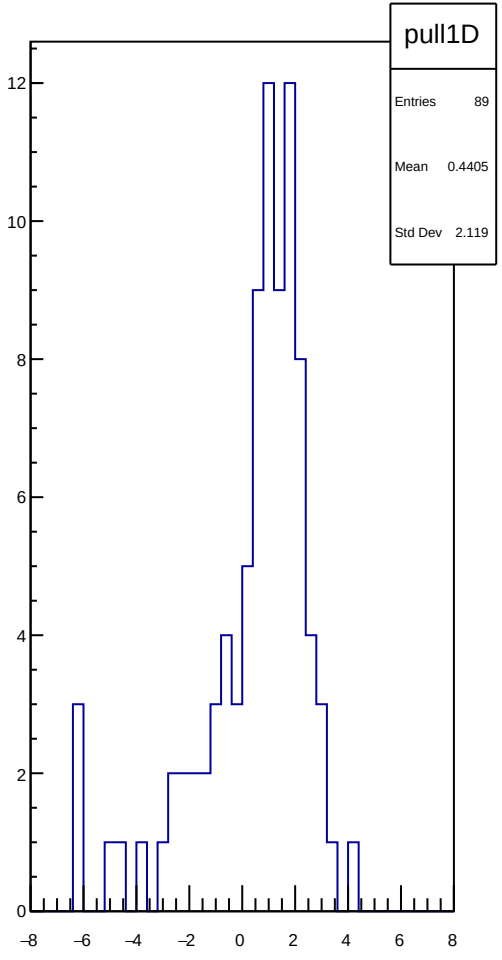

asym_cav4cQ_rms vs run
χ² / ndf 3.226e+05 / 88
p0 199.7 ± 0.1694
400
350
300
250
200
150

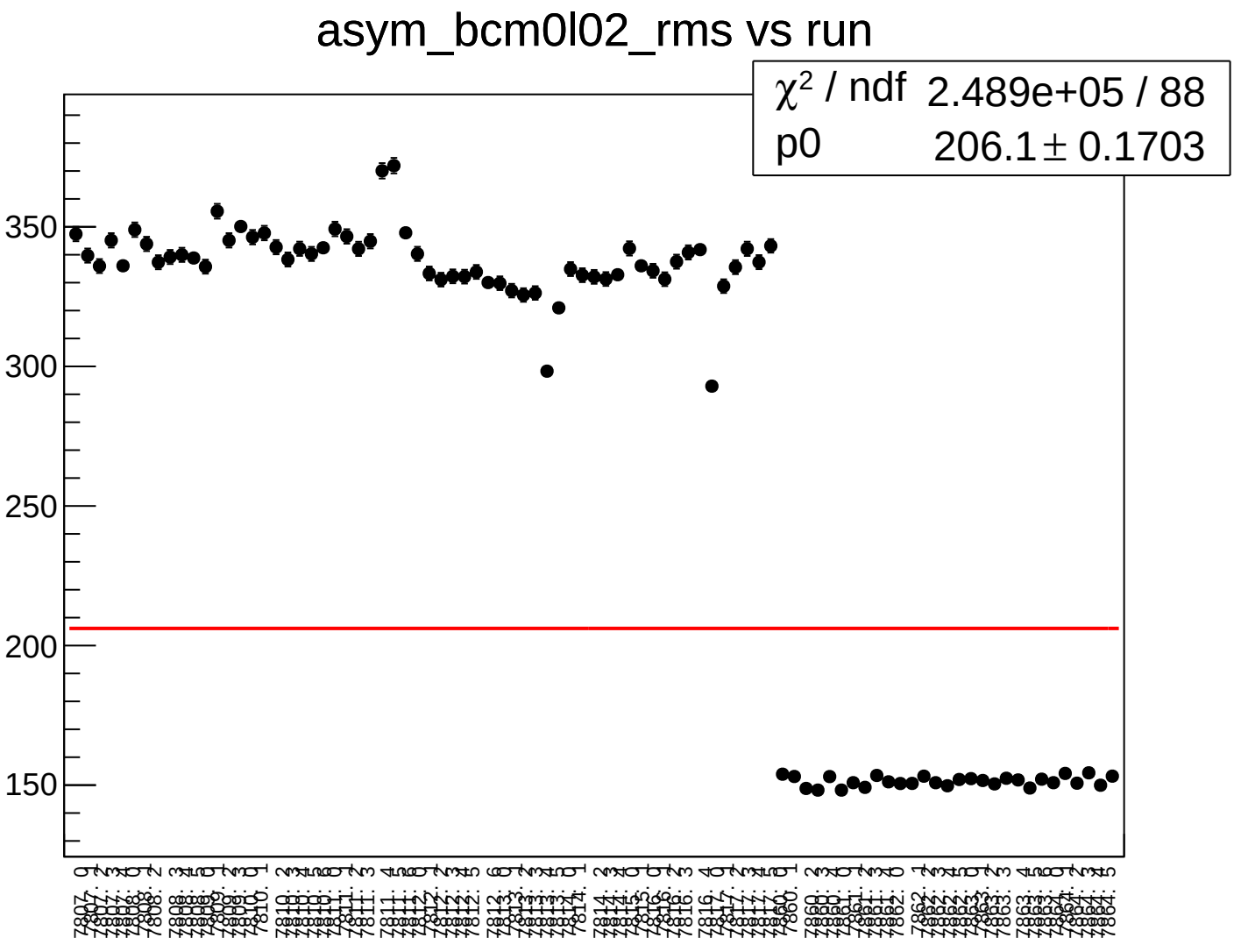

asym_cav4dQ_mean vs run
χ² / ndf 40.23 / 88
p0 101.2 ± 323
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 177.1
Std Dev 154.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

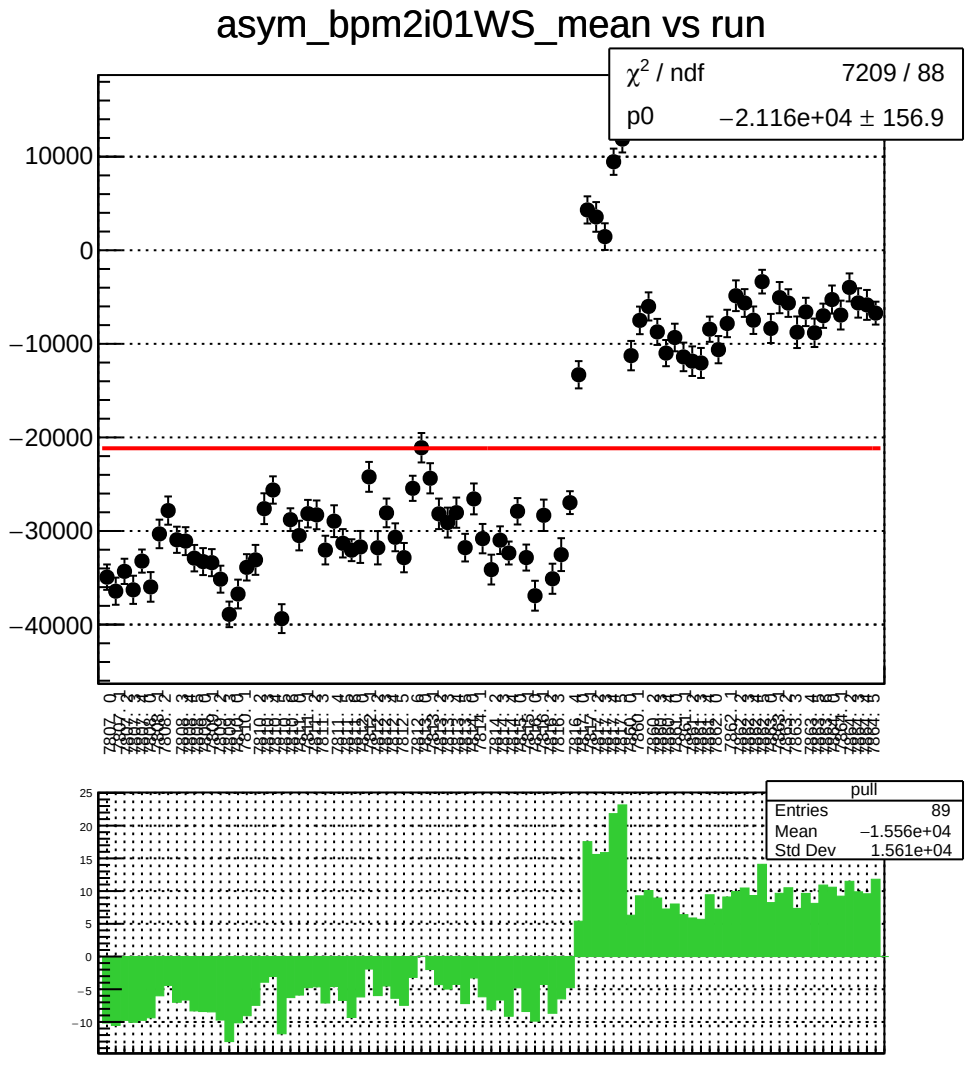

pull1D
Entries 89
Mean −0.004664
Std Dev 0.6724
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

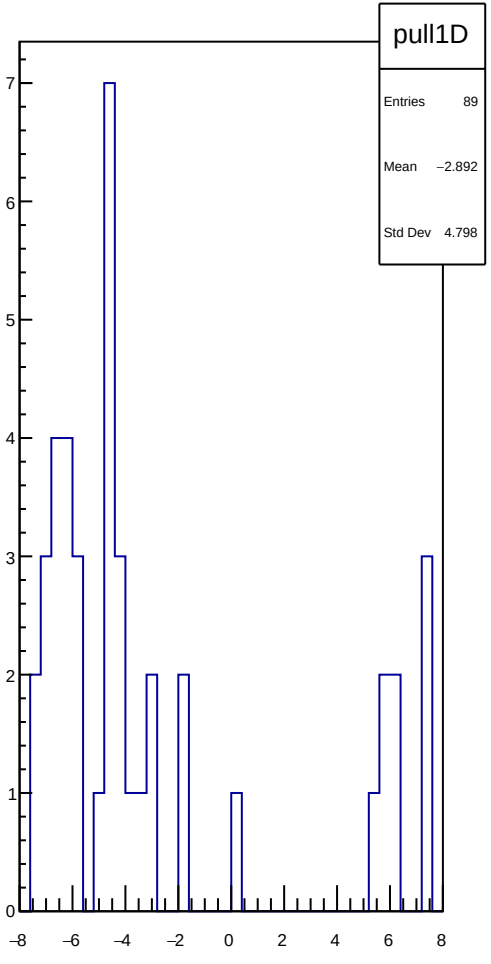

asym_cav4dQ_rms vs run
χ² / ndf 1.495e+05 / 88
p0 285.7 ± 0.2284
400
350
300
250
200

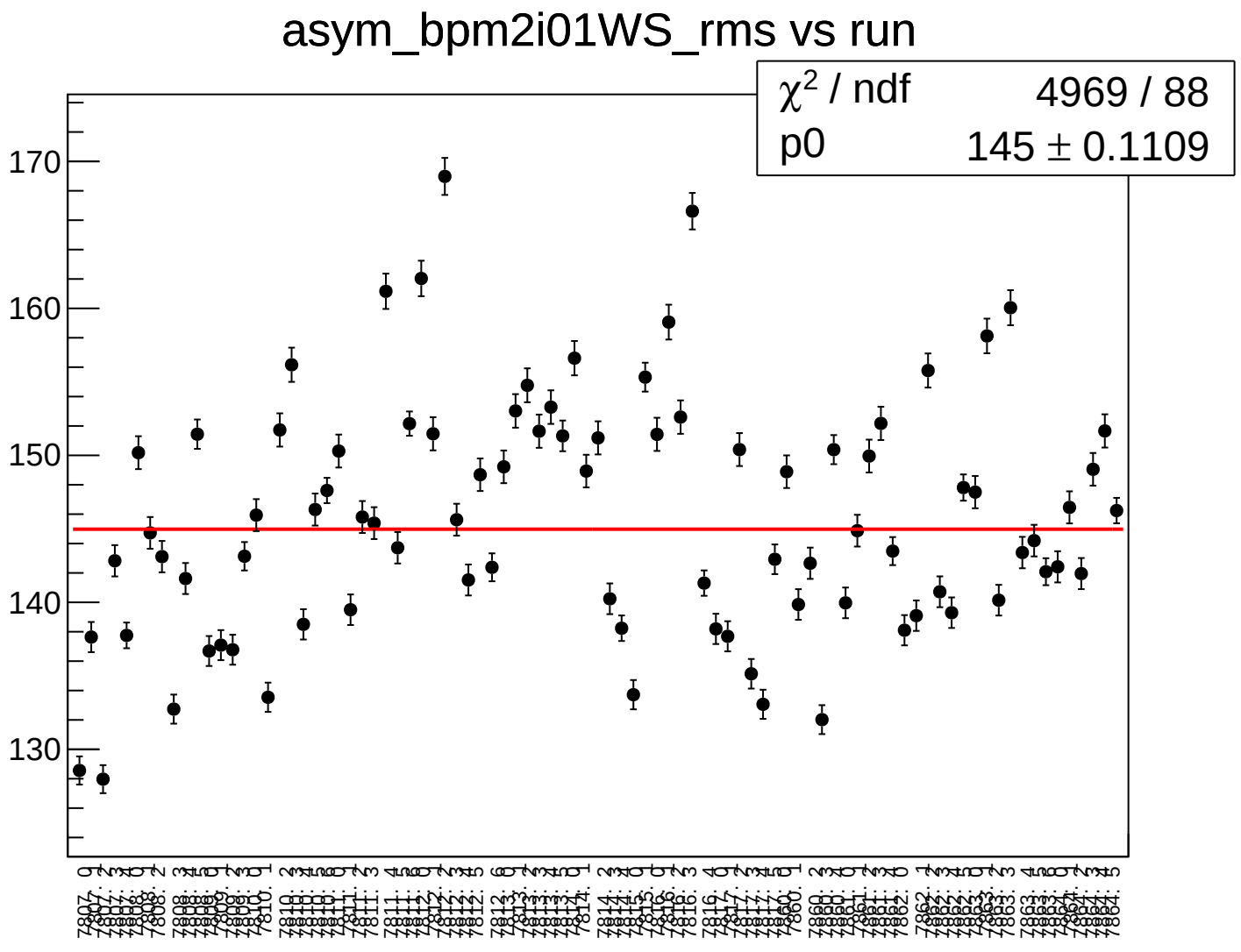

asym_bcm0l02_mean vs run
χ² / ndf 417 / 88
p0 −2951 ± 240.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 1.485
Std Dev 41.12
4
2
0
−2
−4
−6

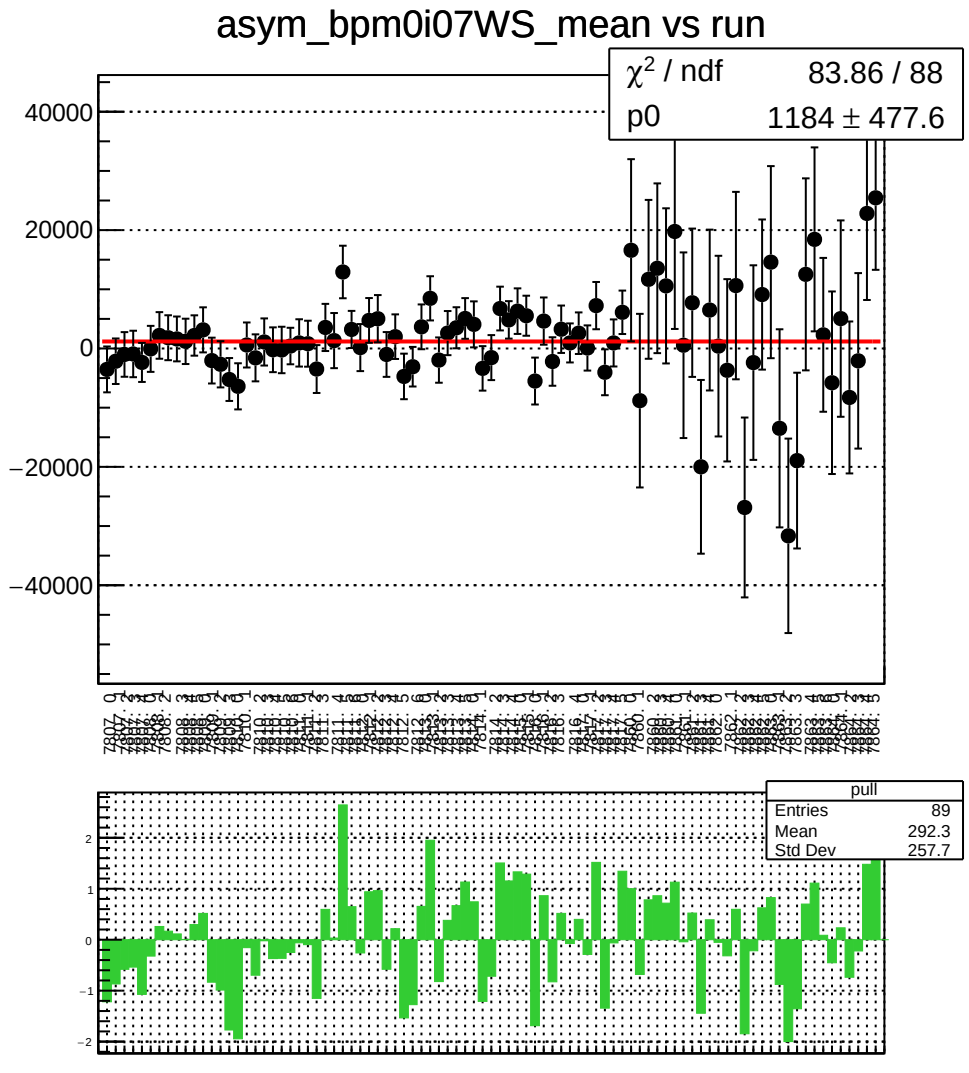

pull1D
Entries 89
Mean 0.4405
Std Dev 2.119
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

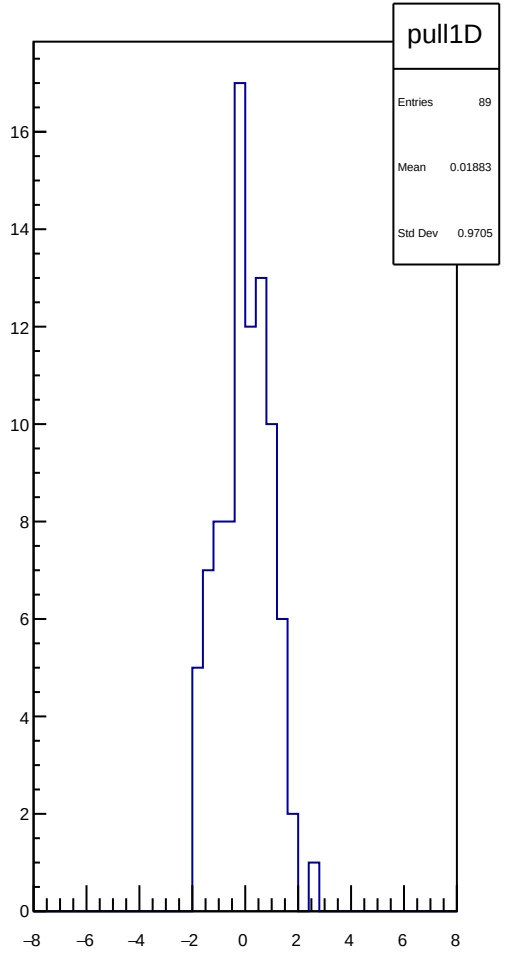

asym_bcm0l02_rms vs run
χ² / ndf 2.489e+05 / 88
p0 206.1 ± 0.1703
350
300
250
200
150

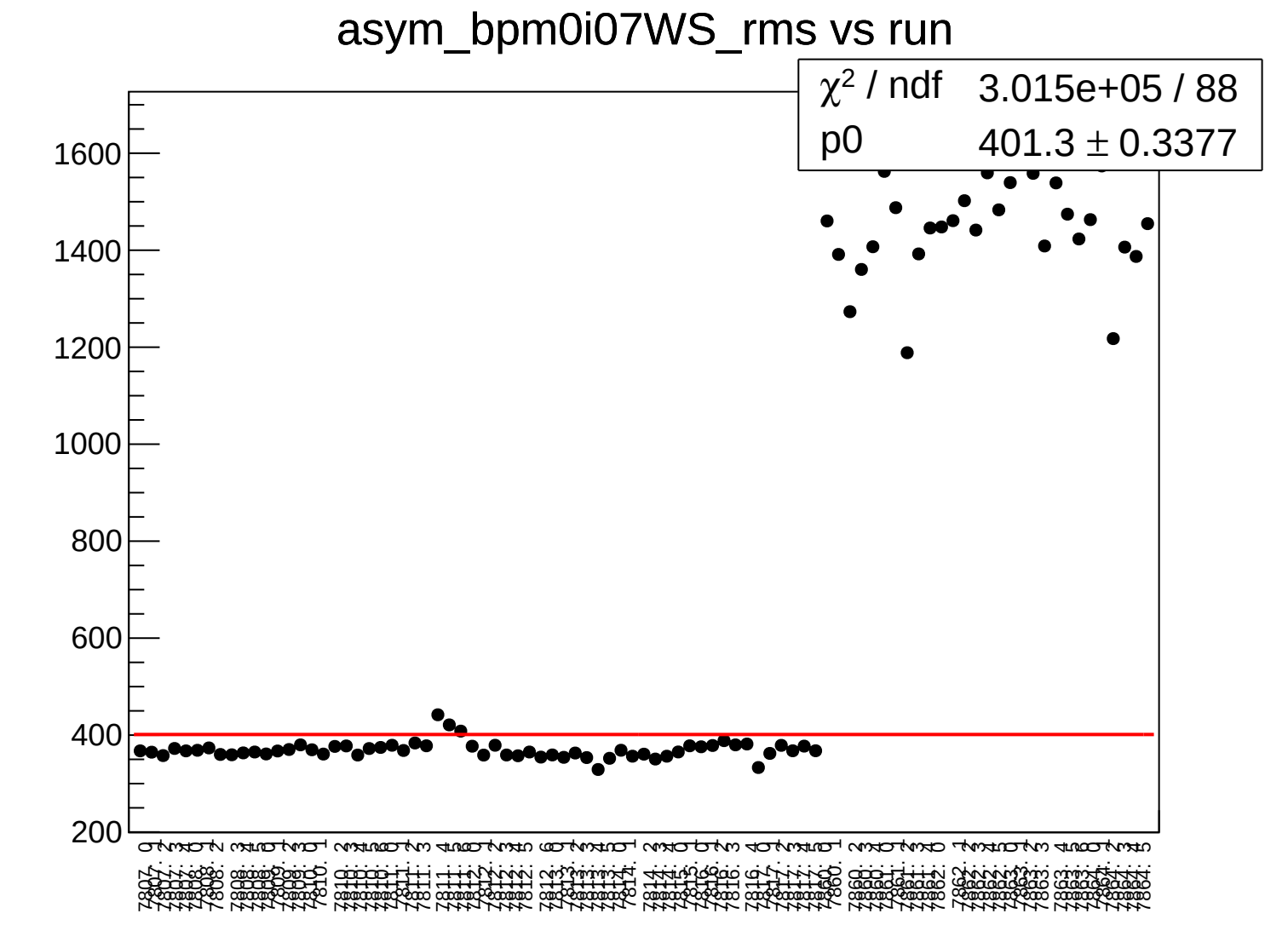

asym_bpm2i01WS_mean vs run
χ² / ndf 7209 / 88
p0 −2.116e+04 ± 156.9
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −1.556e+04
Std Dev 1.561e+04
25
20
15
10
5
0
−5
−10

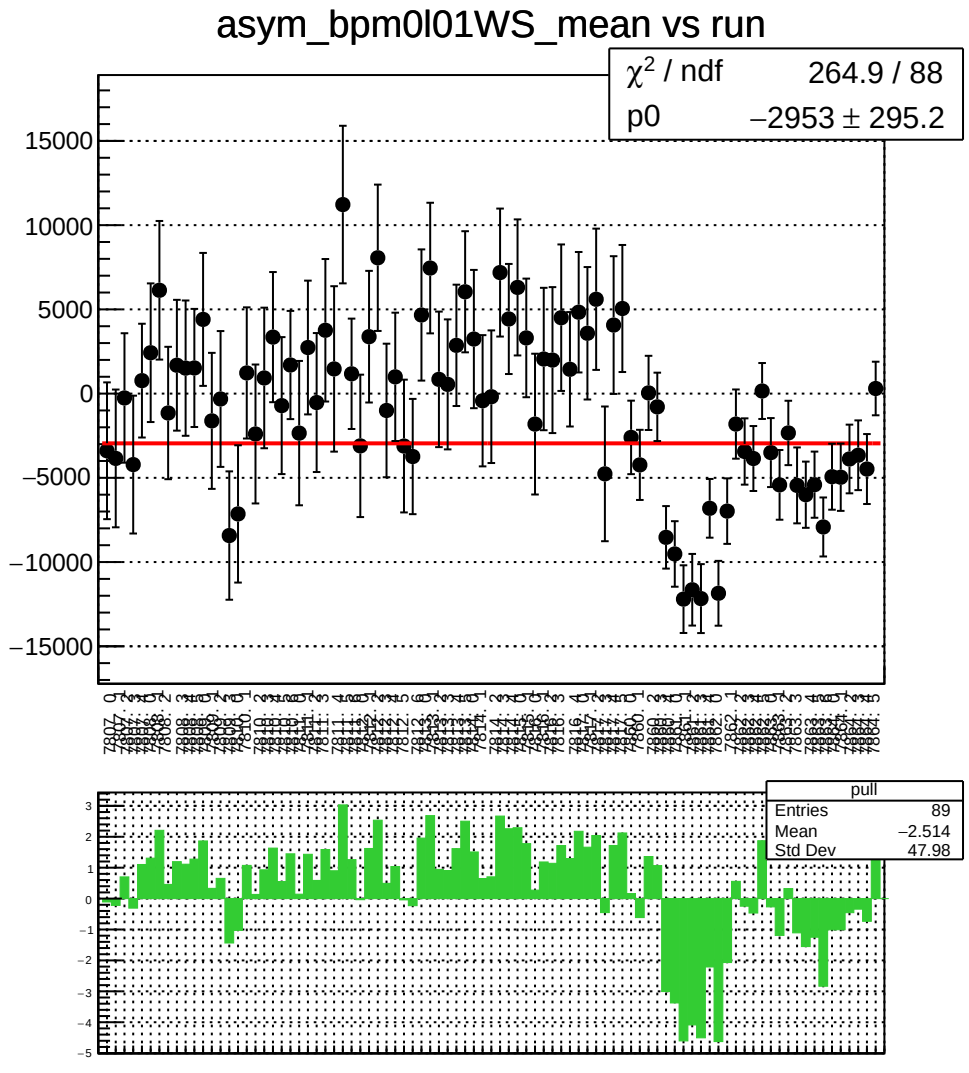

pull1D
Entries 89
Mean −2.892
Std Dev 4.798
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

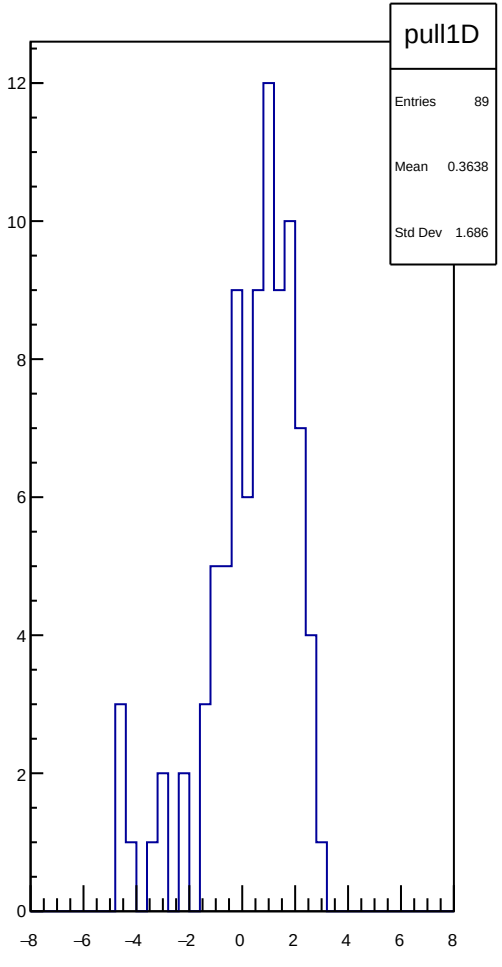

asym_bpm2i01WS_rms vs run
χ^2 / ndf 4969 / 88
p0 145 ± 0.1109
170
160
150
140
130

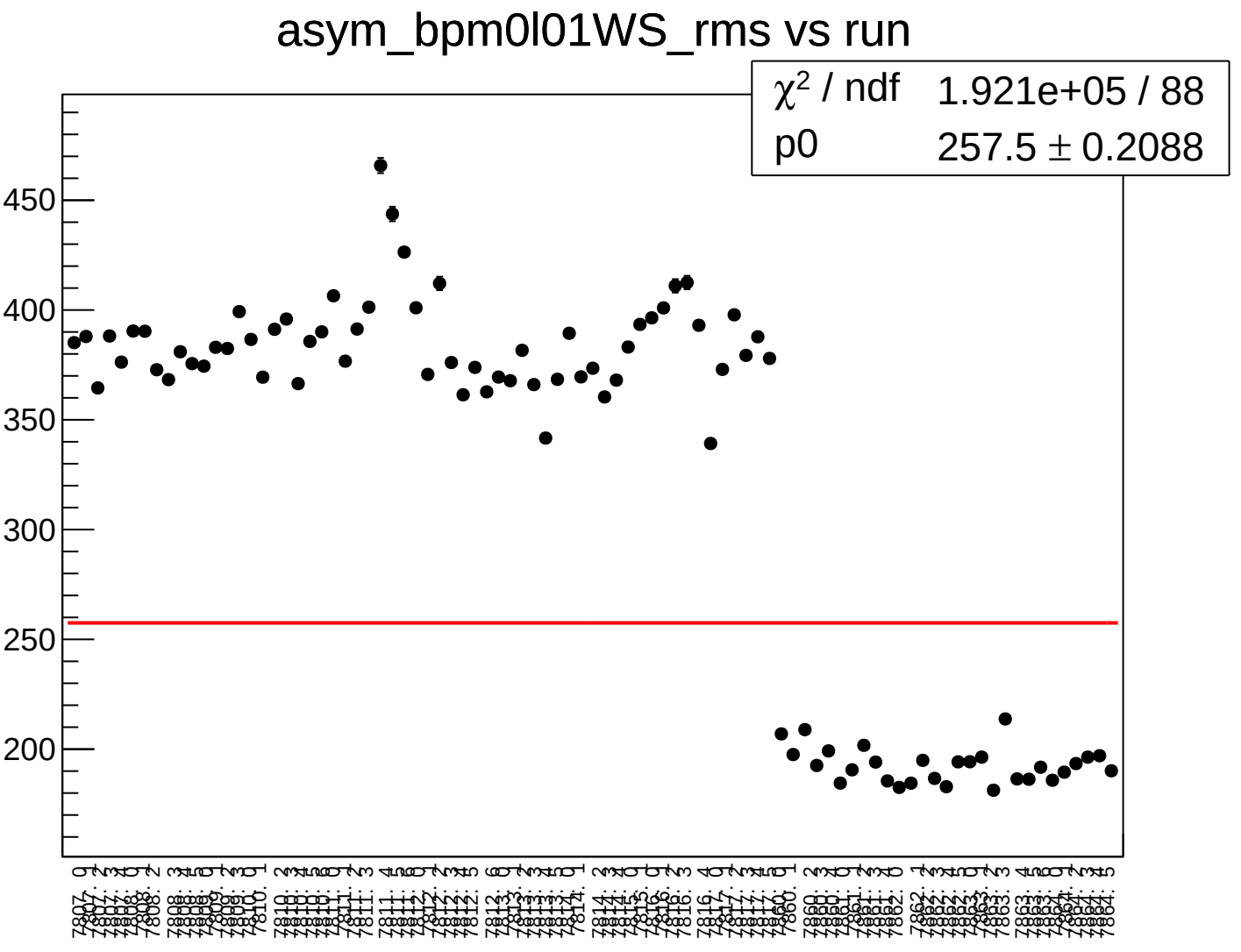

asym_bpm0i07WS_mean vs run
χ² / ndf 83.86 / 88
p0 1184 ± 477.6
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 292.3
Std Dev 257.7
2
1
0
−1
−2

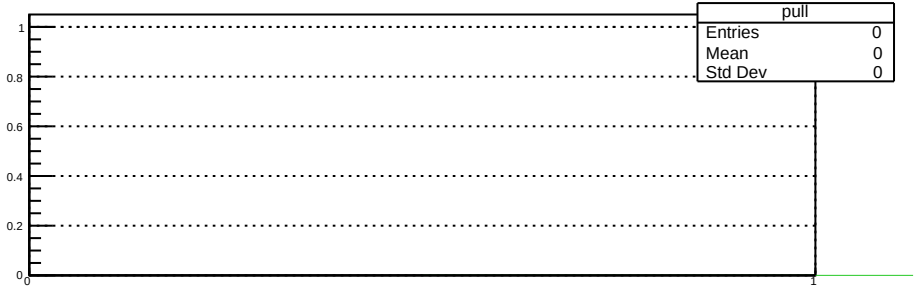

pull1D
Entries 89
Mean 0.01883
Std Dev 0.9705
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

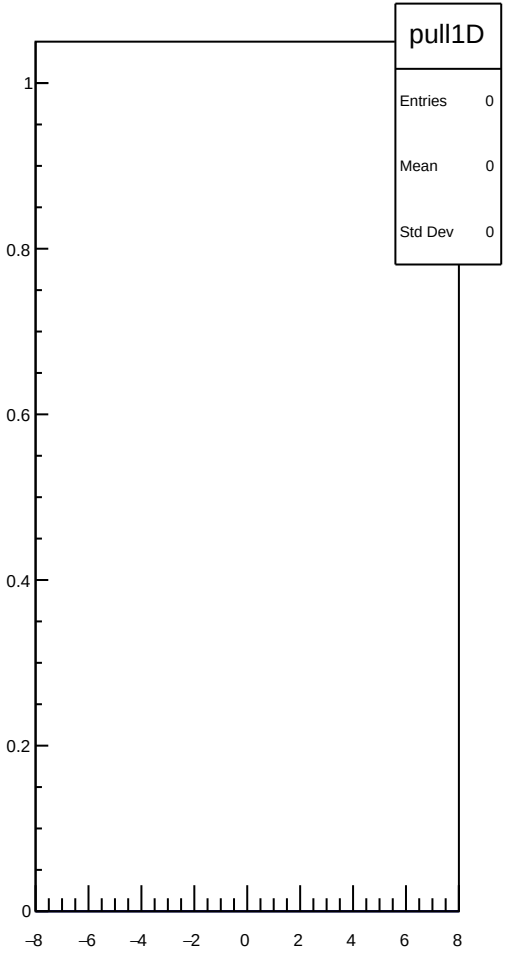

asym_bpm0i07WS_rms vs run
χ² / ndf 3.015e+05 / 88
p0 401.3 ± 0.3377
1600
1400
1200
1000
800
600
400
200

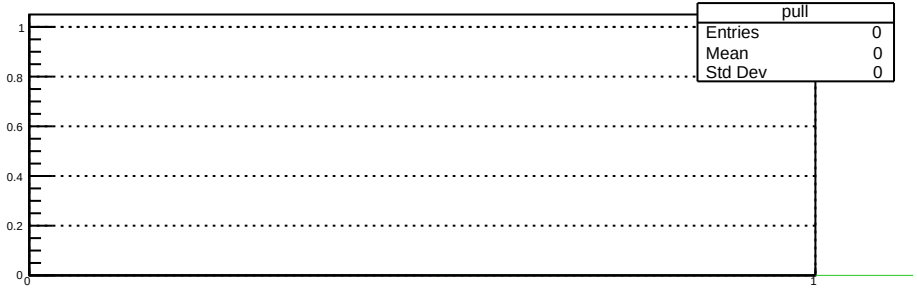

asym_bpm0l01WS_mean vs run
χ² / ndf 264.9 / 88
p0 −2953 ± 295.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −2.514
Std Dev 47.98
3
2
1
0
−1
−2
−3
−4
−5

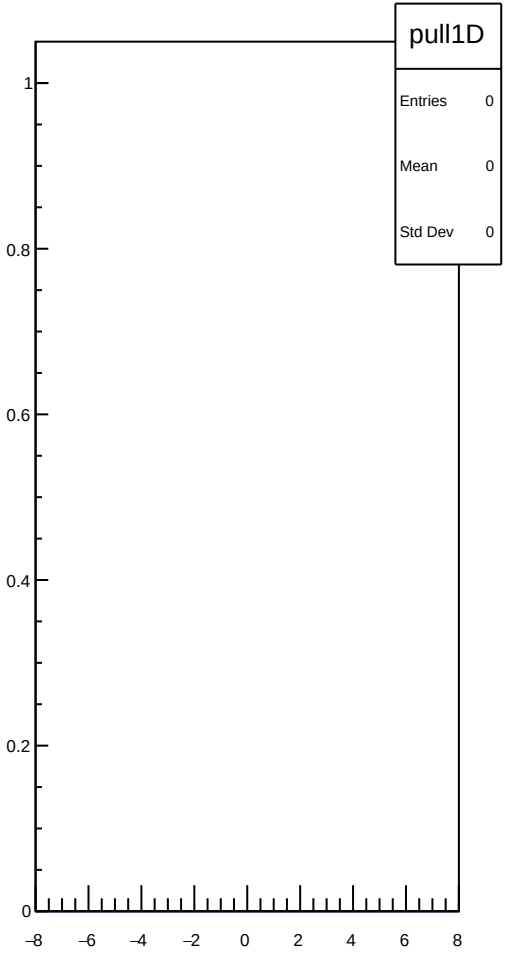

pull1D
Entries 89
Mean 0.3638
Std Dev 1.686
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

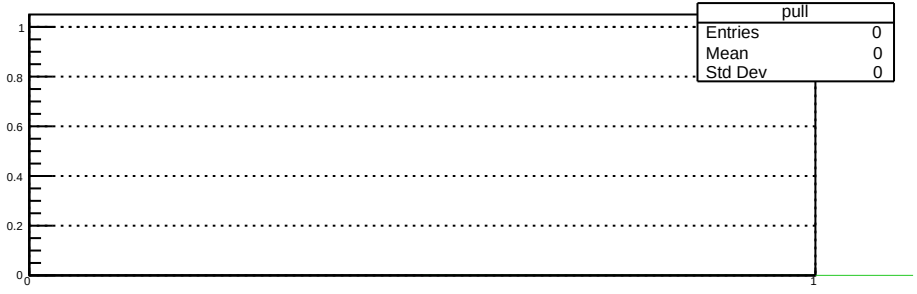

asym_bpm0l01WS_rms vs run
χ^2 / ndf 1.921e+05 / 88
p0 257.5 ± 0.2088
450
400
350
300
250
200

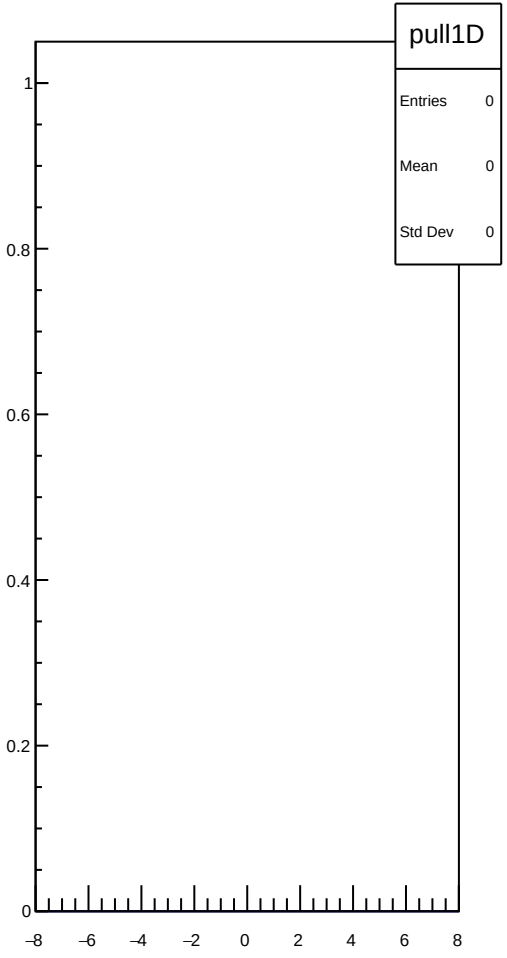

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

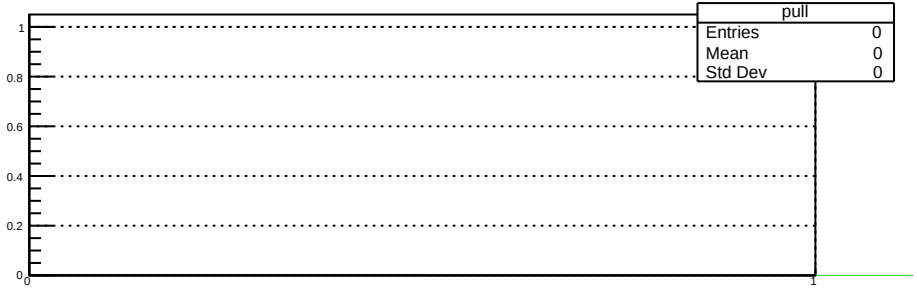

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

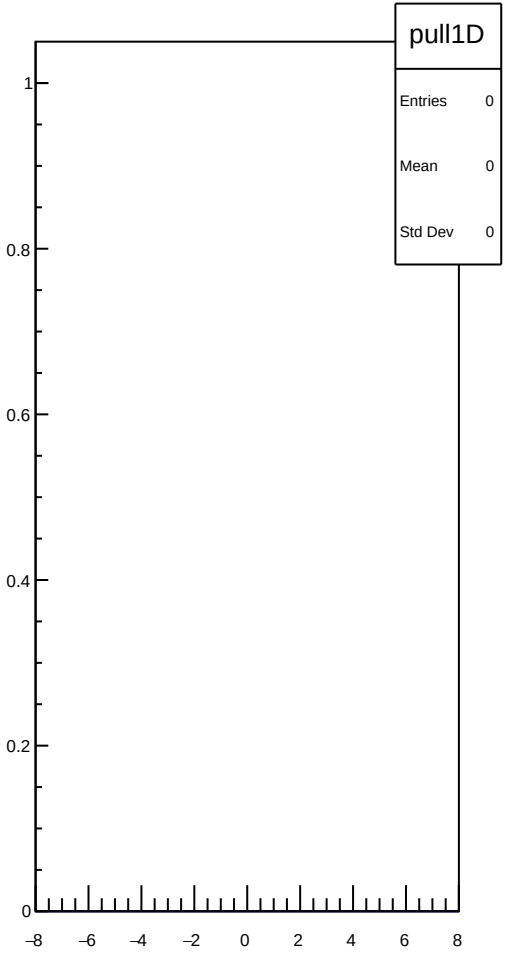

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

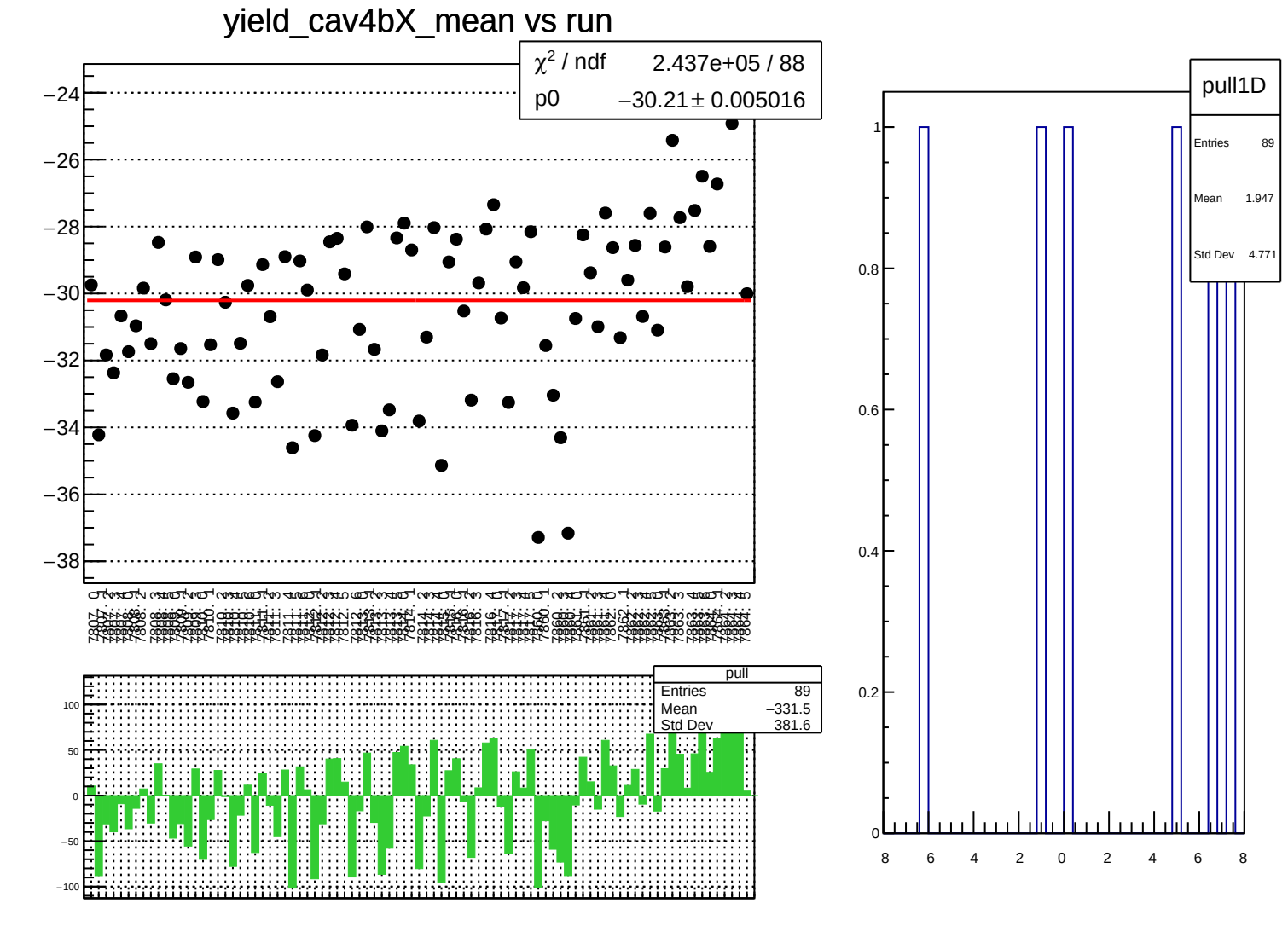

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

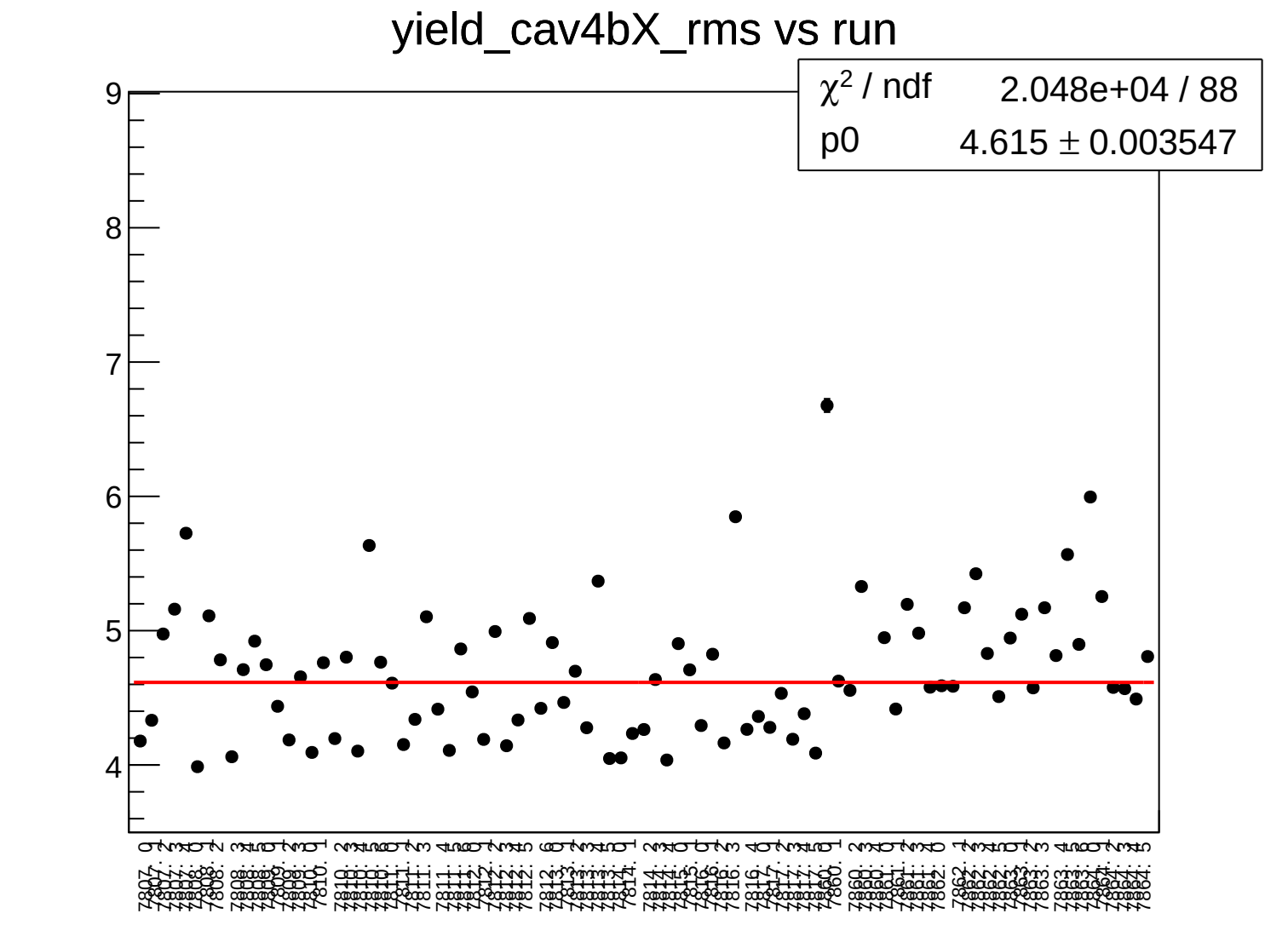

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

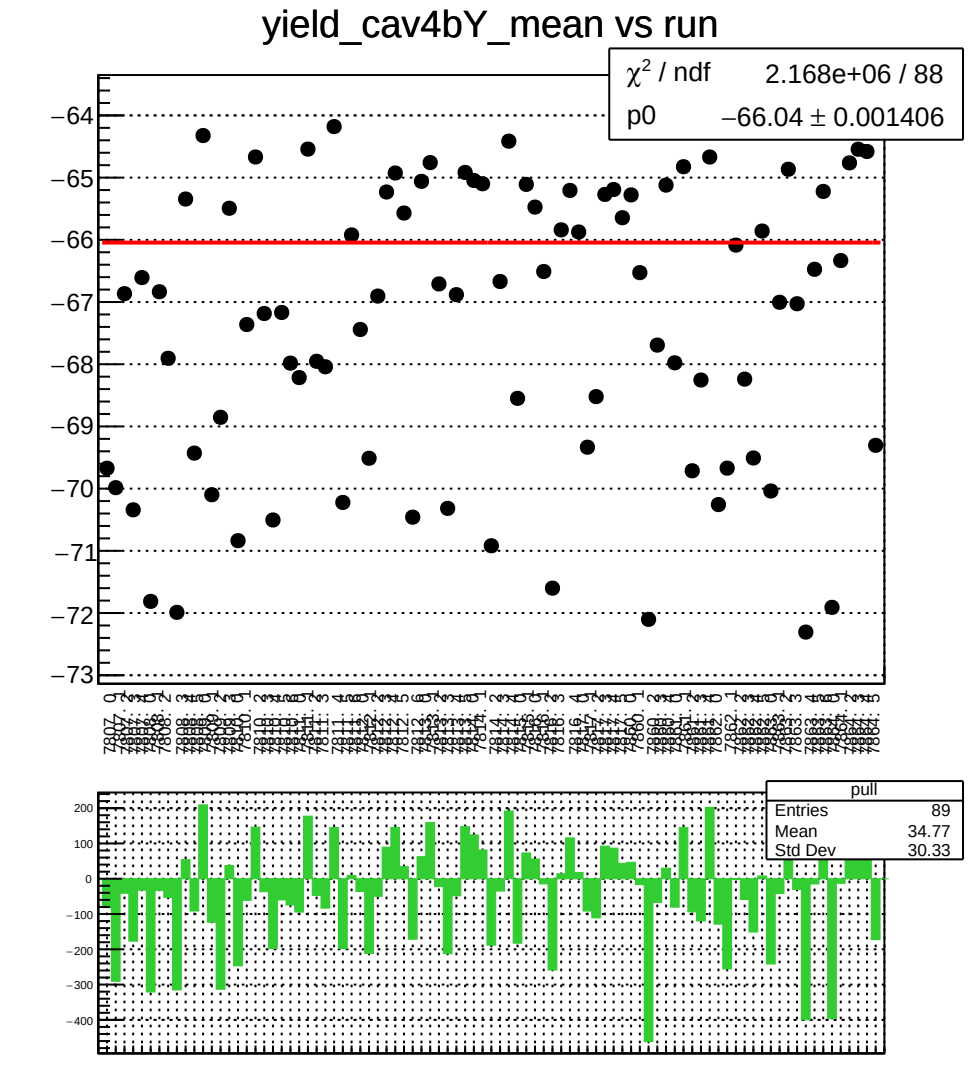

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

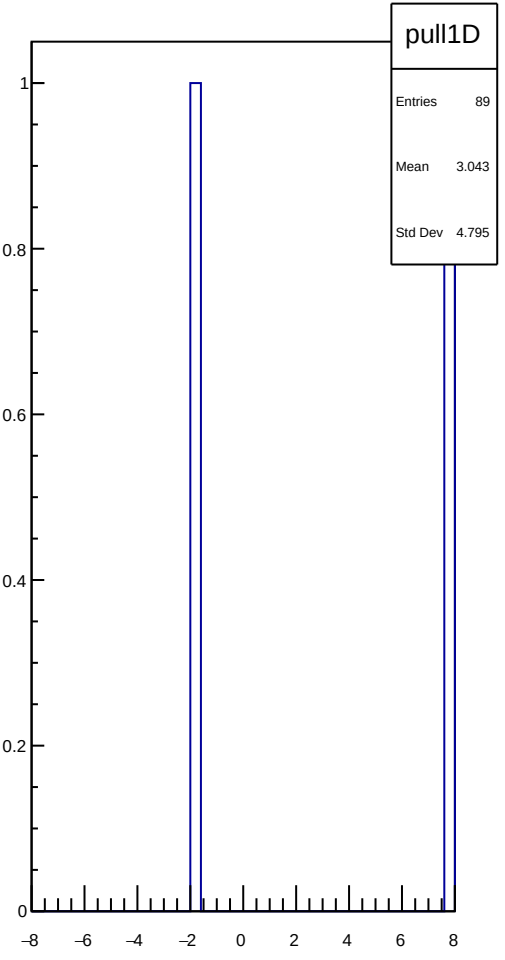

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

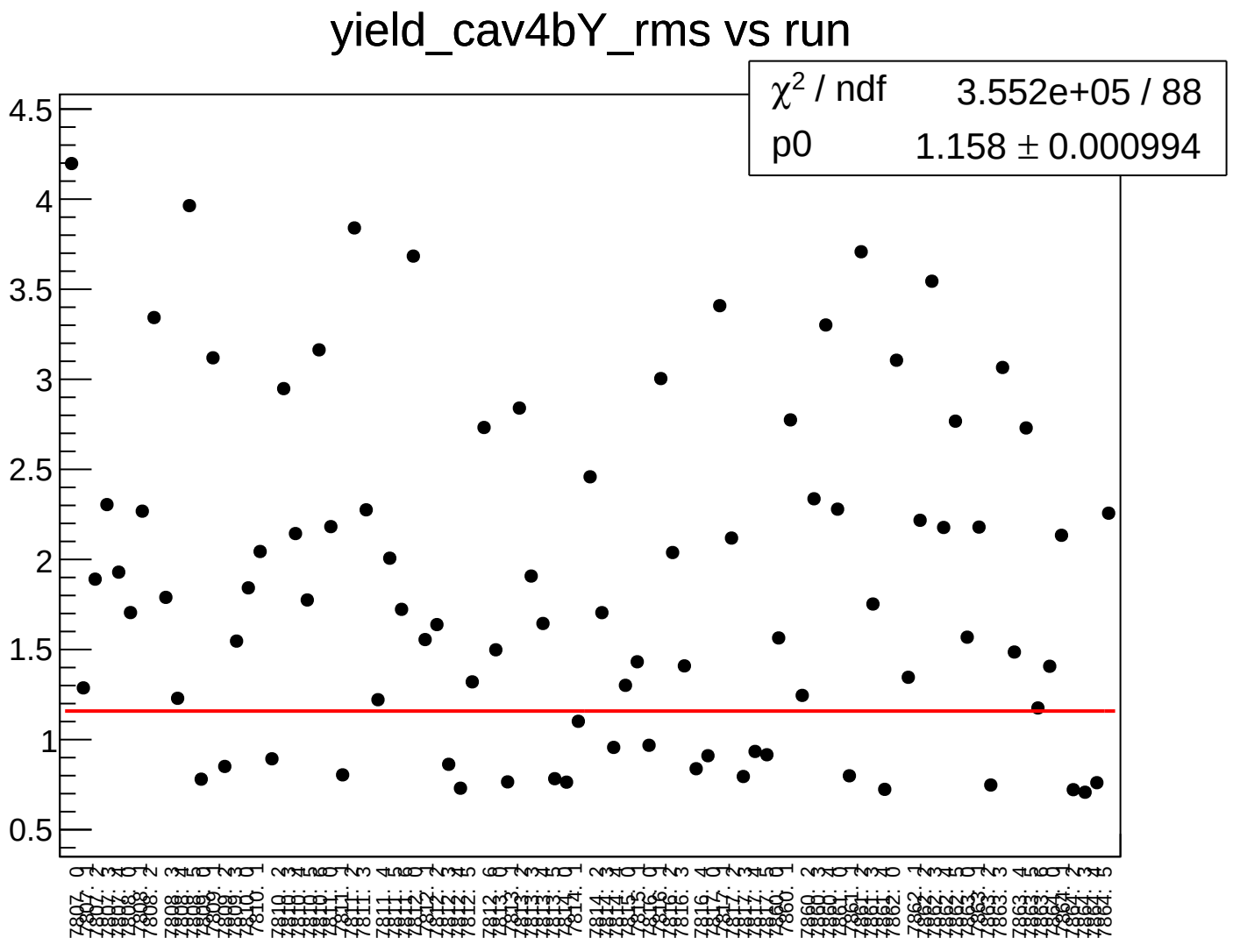

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

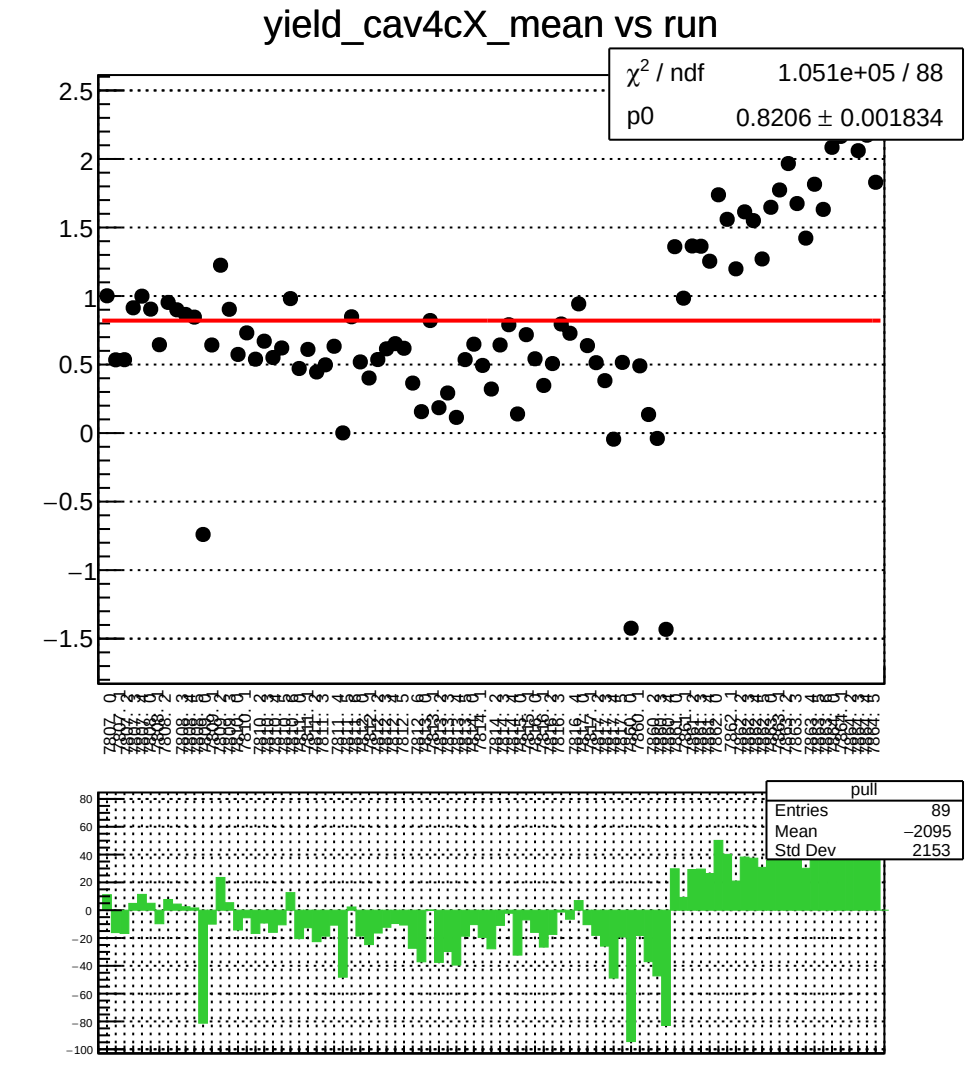

yield_cav4bX_mean vs run
χ² / ndf 2.437e+05 / 88
p0 −30.21 ± 0.005016
pull
Entries 89
Mean −331.5
Std Dev 381.6
pull1D
Entries 89
Mean 1.947
Std Dev 4.771

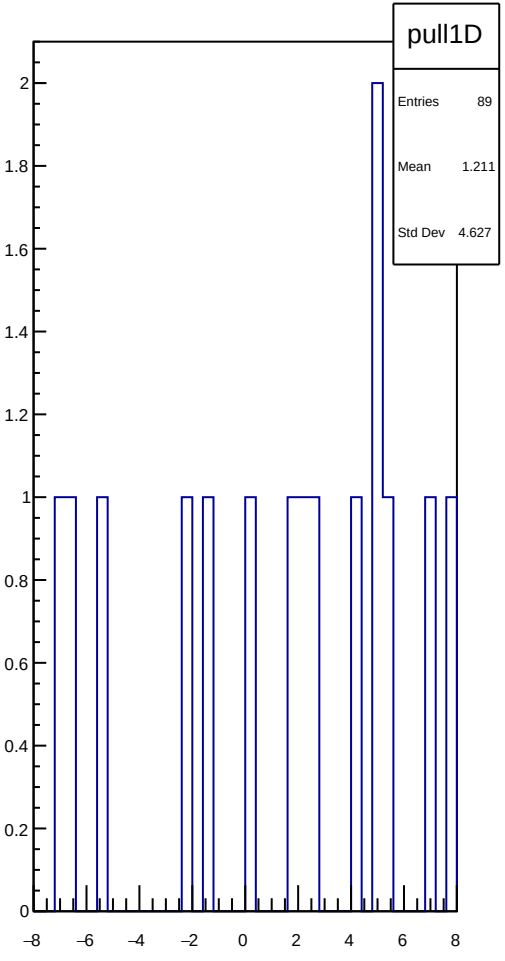

yield_cav4bX_rms vs run
χ^2 / ndf 2.048e+04 / 88
p0 4.615 ± 0.003547
9
8
7
6
5
4

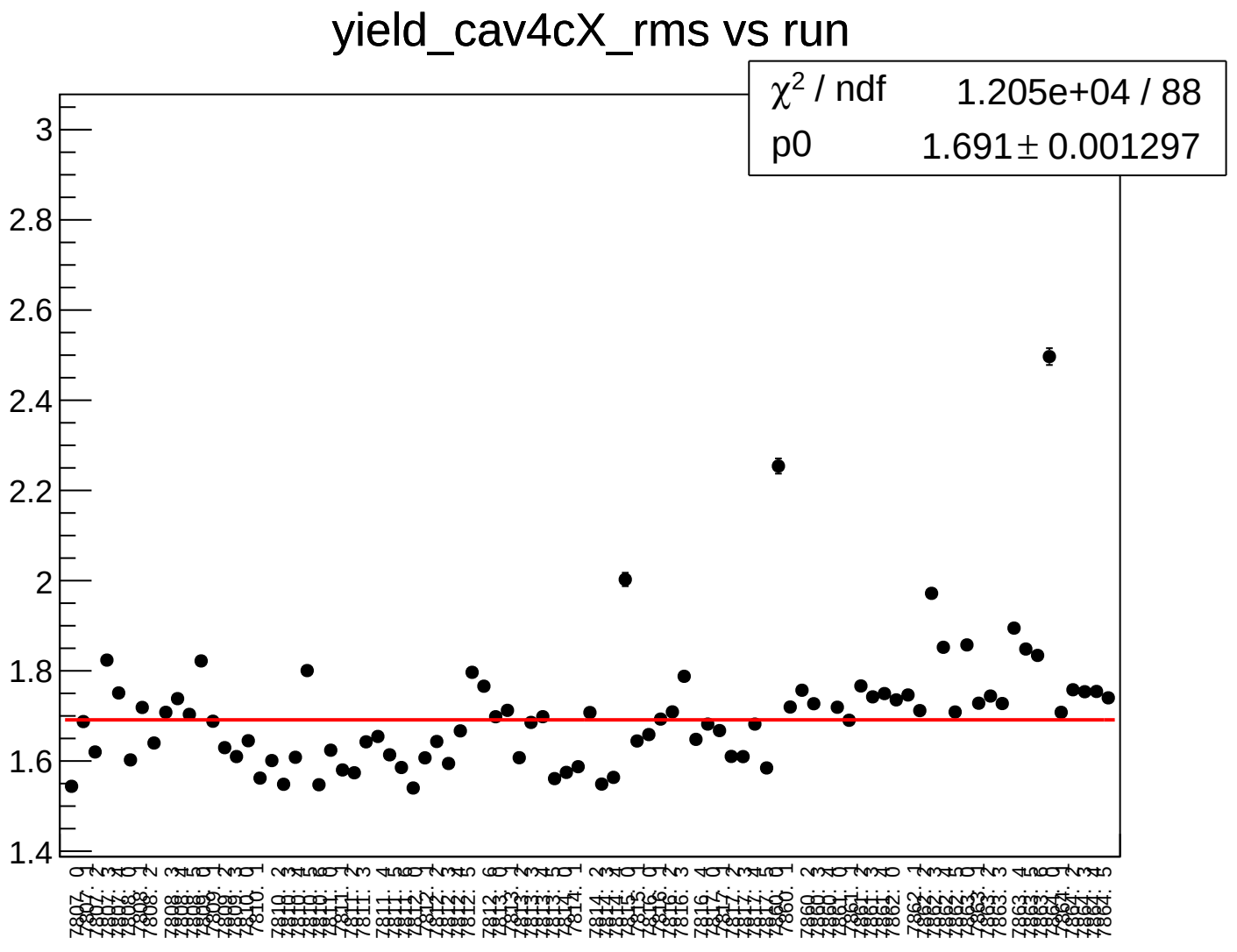

yield_cav4bY_mean vs run
χ² / ndf 2.168e+06 / 88
p0 −66.04 ± 0.001406
pull
Entries 89
Mean 34.77
Std Dev 30.33

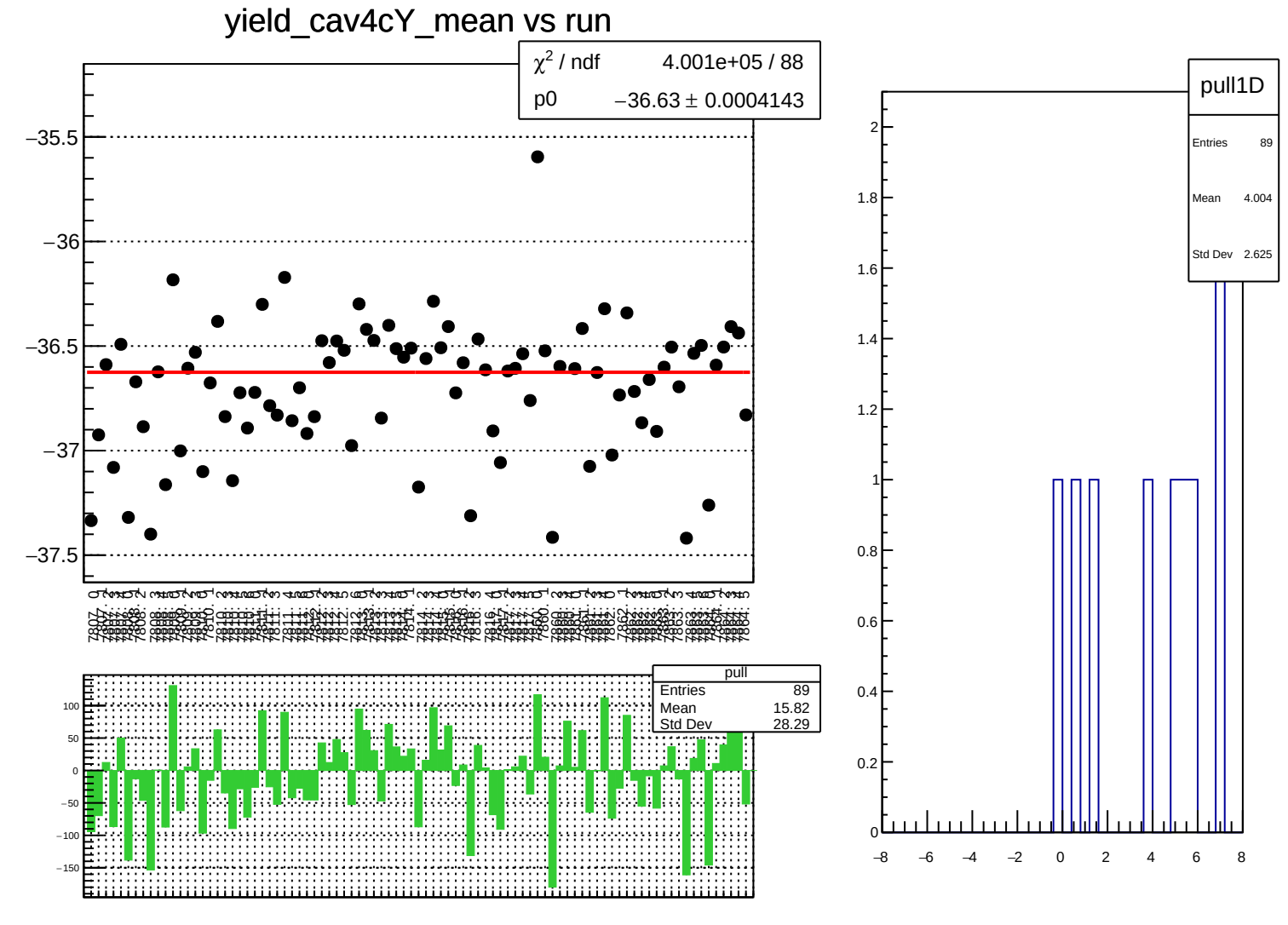

pull1D
Entries 89
Mean 3.043
Std Dev 4.795

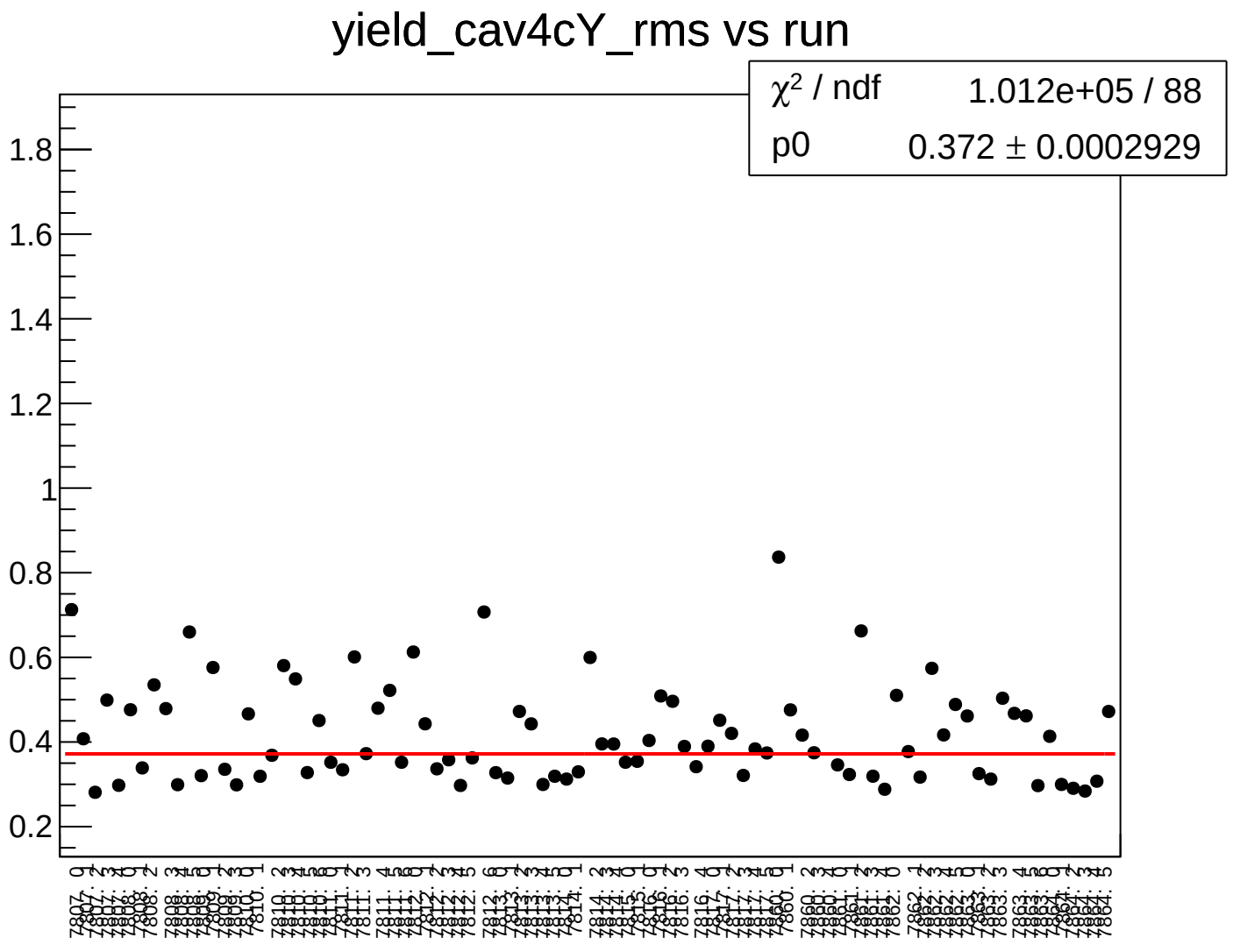

yield_cav4bY_rms vs run
χ^2 / ndf 3.552e+05 / 88
p0 1.158 ± 0.000994
4.5
4
3.5
3
2.5
2
1.5
1
0.5

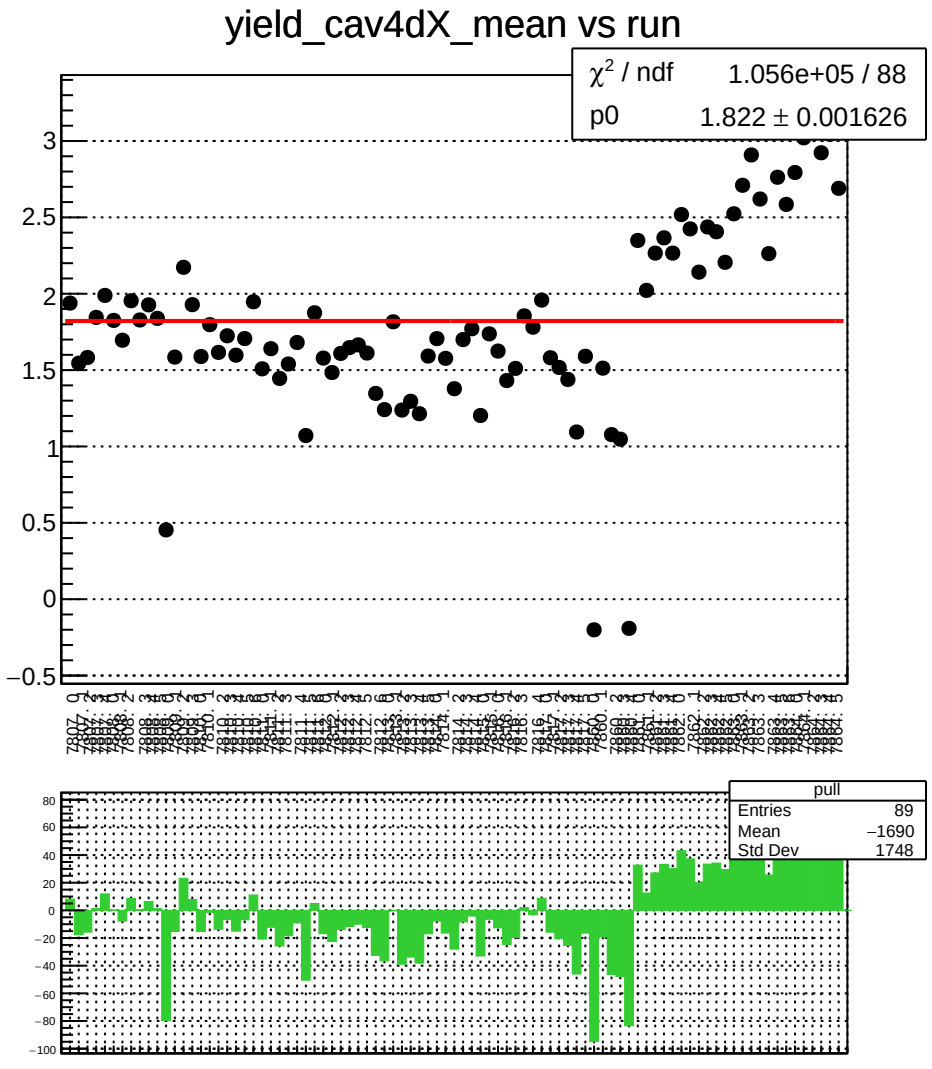

yield_cav4cX_mean vs run
χ² / ndf 1.051e+05 / 88
p0 0.8206 ± 0.001834
pull
Entries 89
Mean −2095
Std Dev 2153

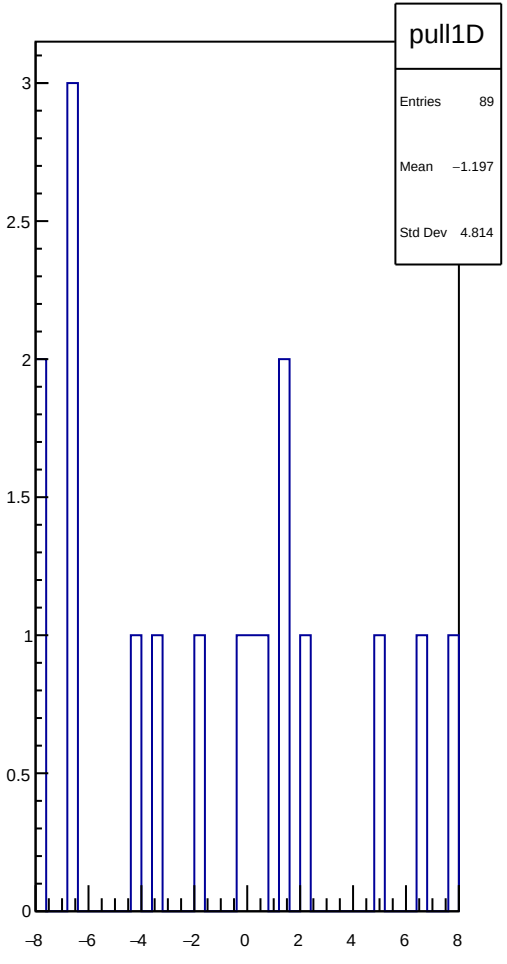

pull1D
Entries 89
Mean 1.211
Std Dev 4.627

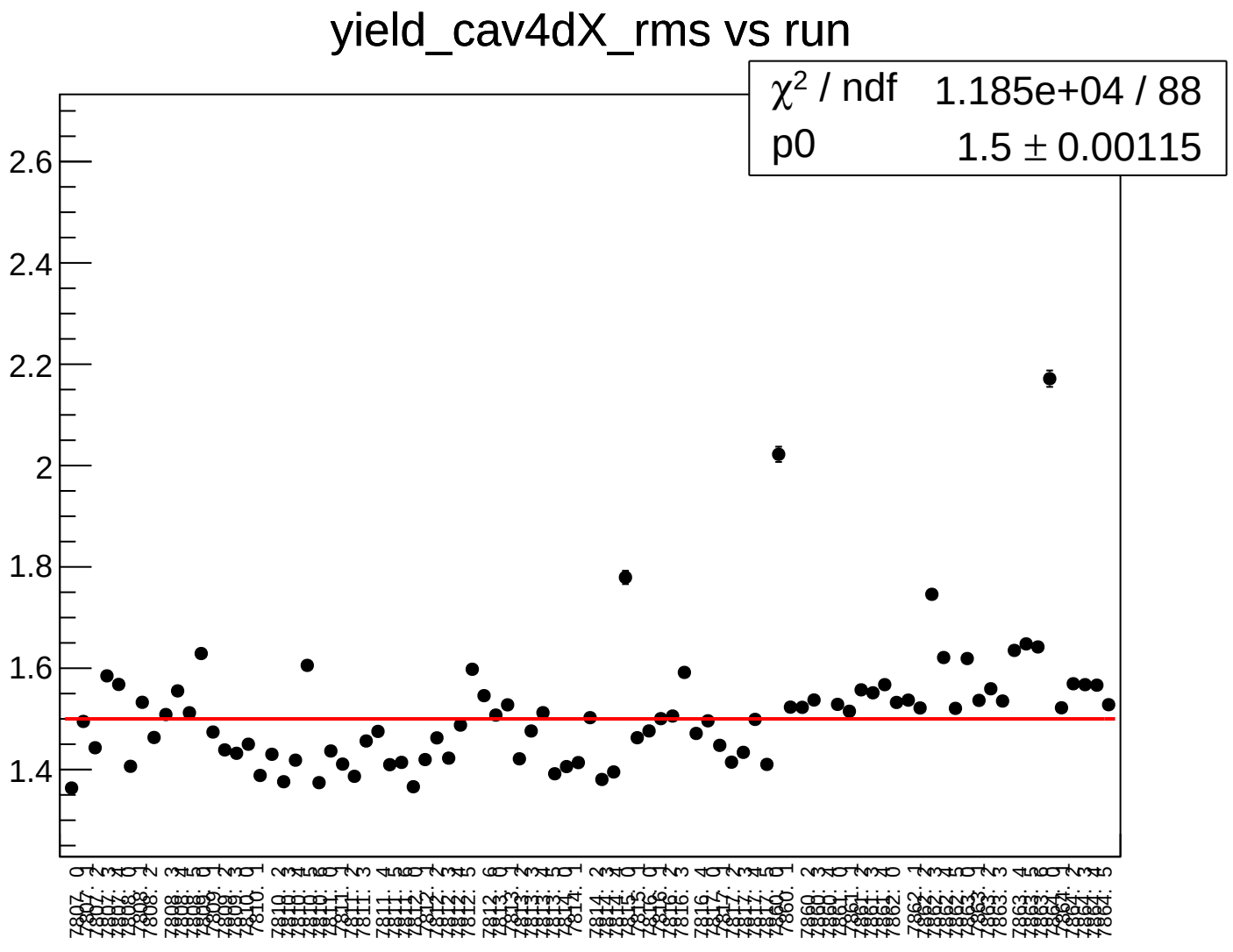

yield_cav4cX_rms vs run
χ^2 / ndf 1.205e+04 / 88
p0 1.691 ± 0.001297
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4

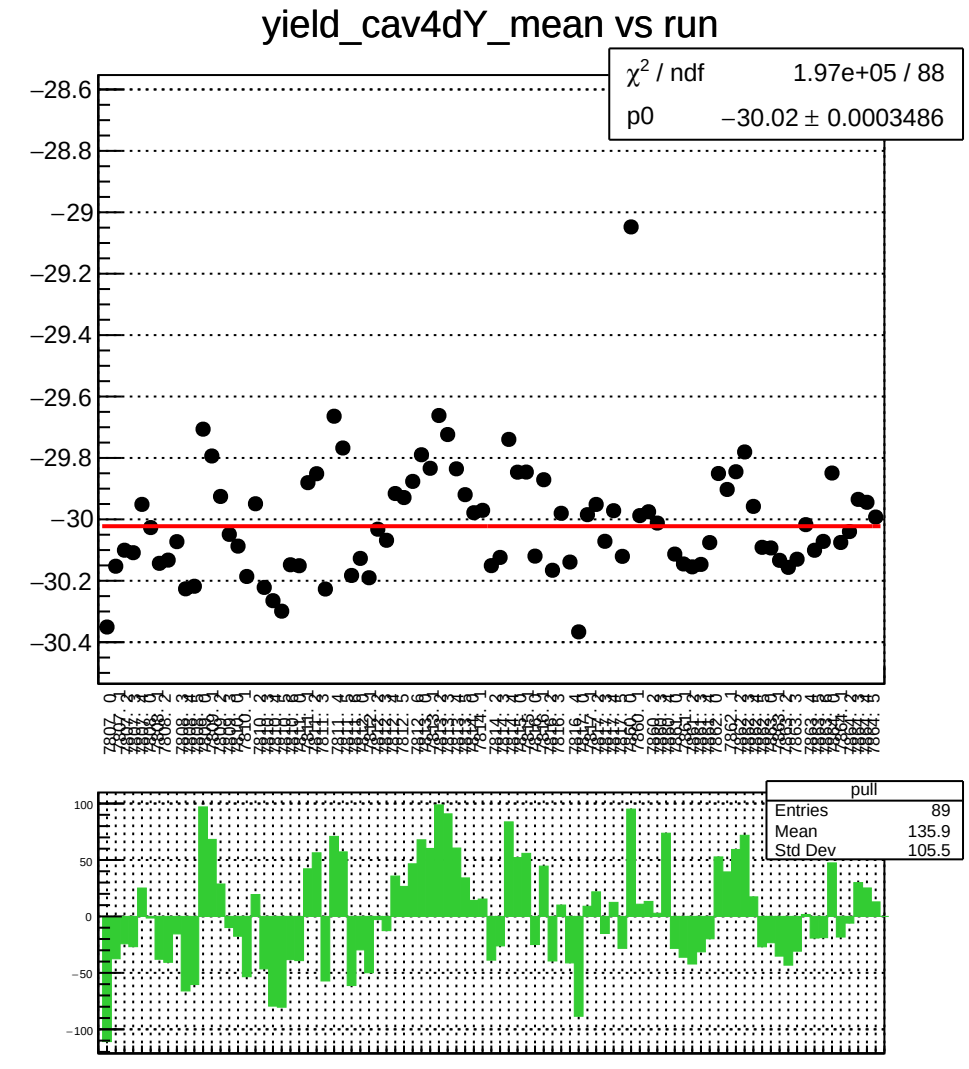

yield_cav4cY_mean vs run
χ² / ndf 4.001e+05 / 88
p0 −36.63 ± 0.0004143
−35.5
−36
−36.5
−37
−37.5
pull
Entries 89
Mean 15.82
Std Dev 28.29
100
50
0
−50
−100
−150
pull1D
Entries 89
Mean 4.004
Std Dev 2.625
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

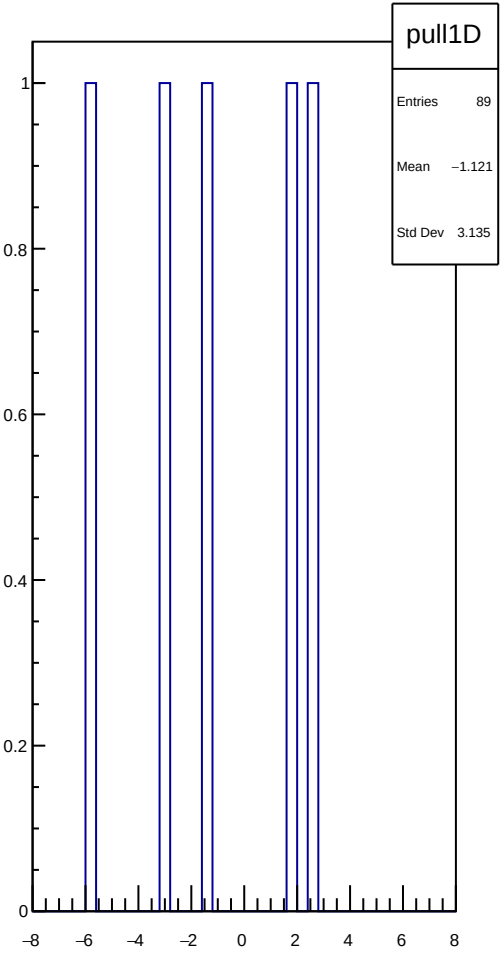

yield_cav4cY_rms vs run
χ² / ndf 1.012e+05 / 88
p0 0.372 ± 0.0002929
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

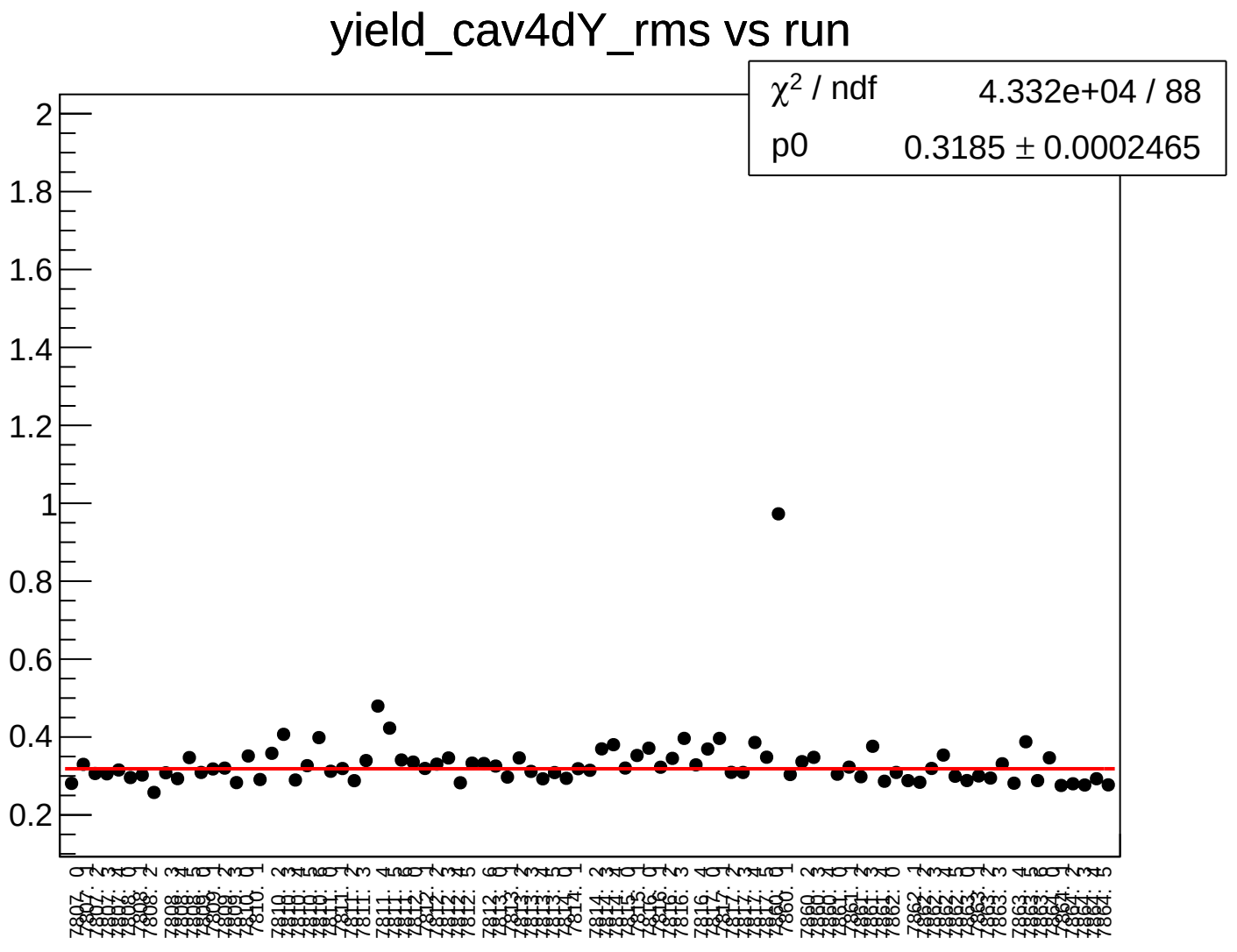

yield_cav4dX_mean vs run
χ² / ndf 1.056e+05 / 88
p0 1.822 ± 0.001626
pull
Entries 89
Mean −1690
Std Dev 1748

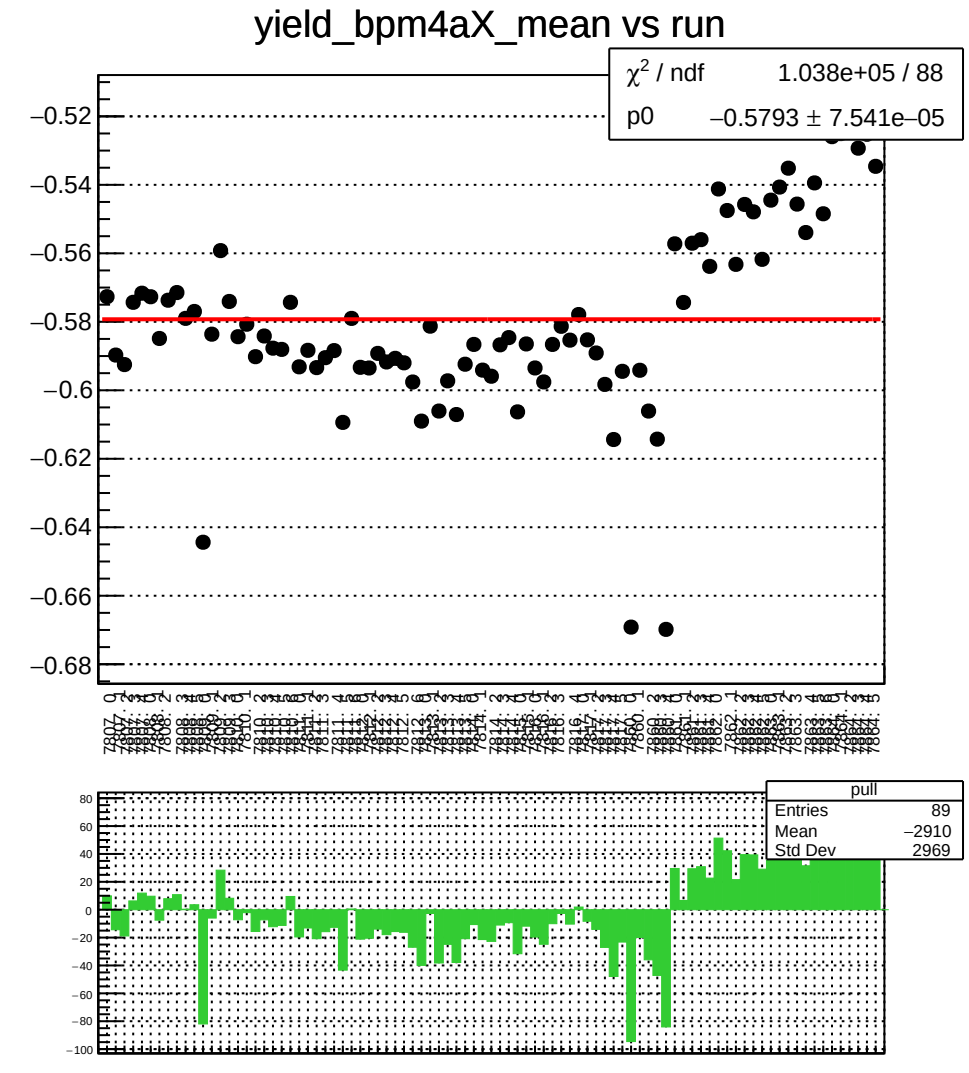

pull1D
Entries 89
Mean −1.197
Std Dev 4.814

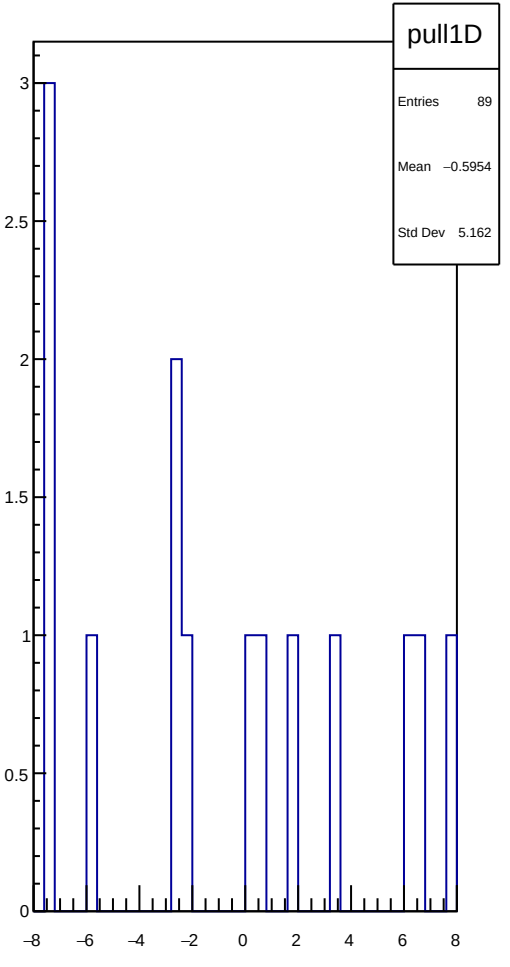

yield_cav4dX_rms vs run
χ² / ndf 1.185e+04 / 88
p0 1.5 ± 0.00115
2.6
2.4
2.2
2
1.8
1.6
1.4

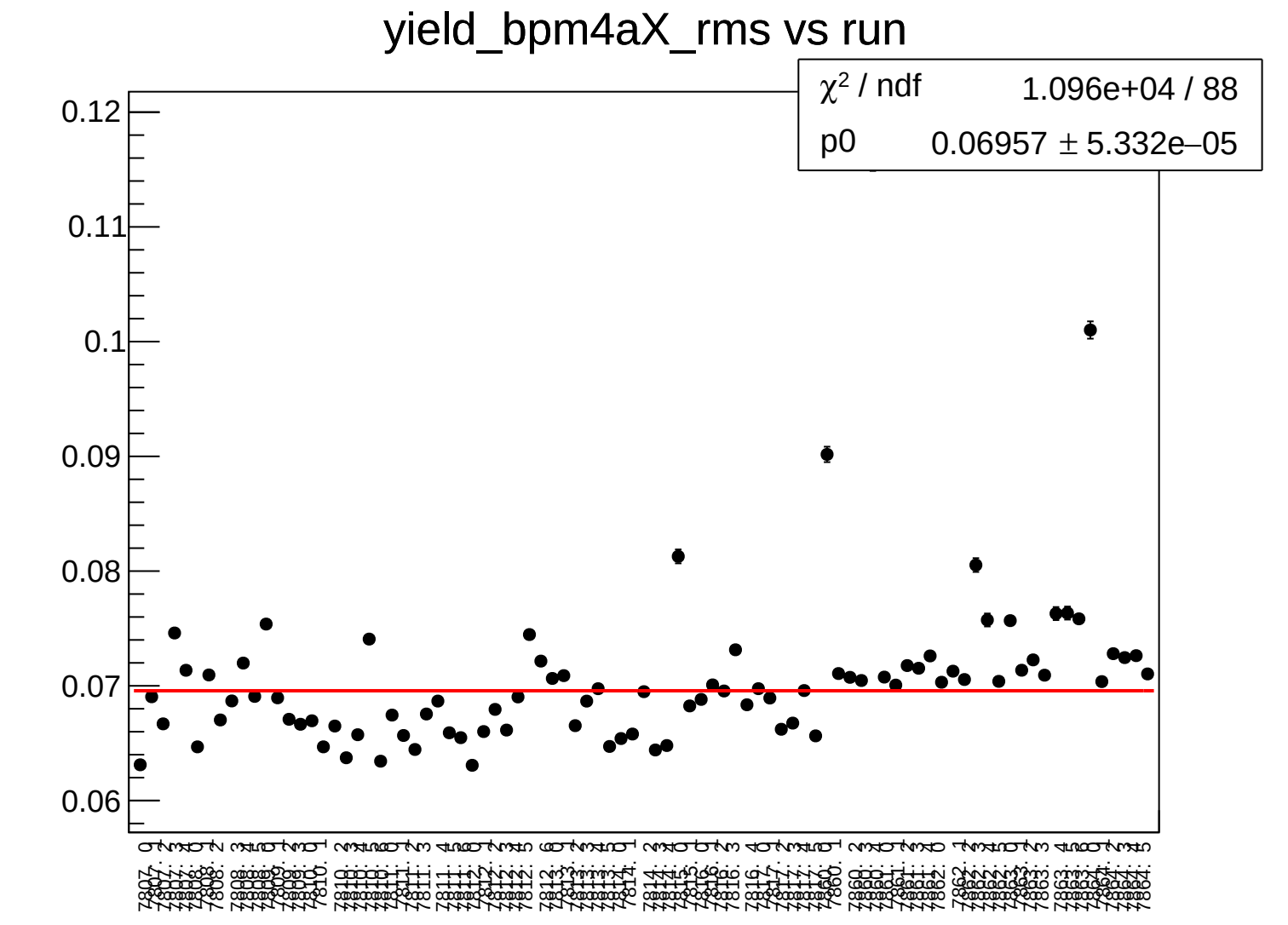

yield_cav4dY_mean vs run
χ² / ndf 1.97e+05 / 88
p0 −30.02 ± 0.0003486
pull
Entries 89
Mean 135.9
Std Dev 105.5

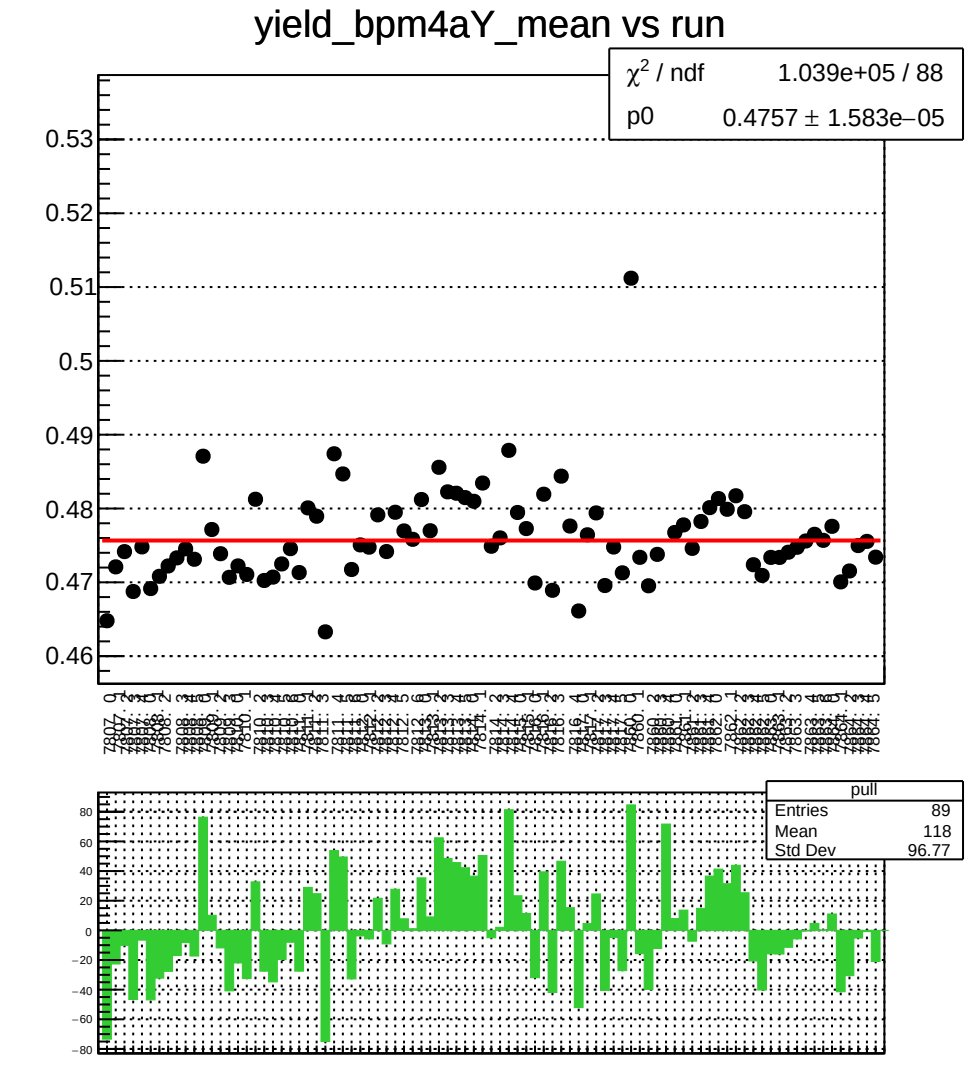

pull1D
Entries 89
Mean −1.121
Std Dev 3.135

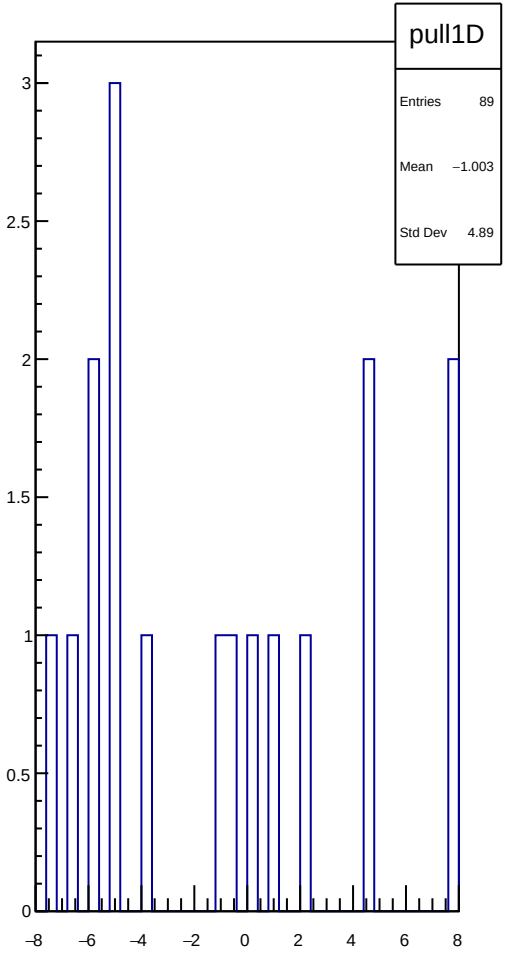

yield_cav4dY_rms vs run
χ² / ndf 4.332e+04 / 88
p0 0.3185 ± 0.0002465
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

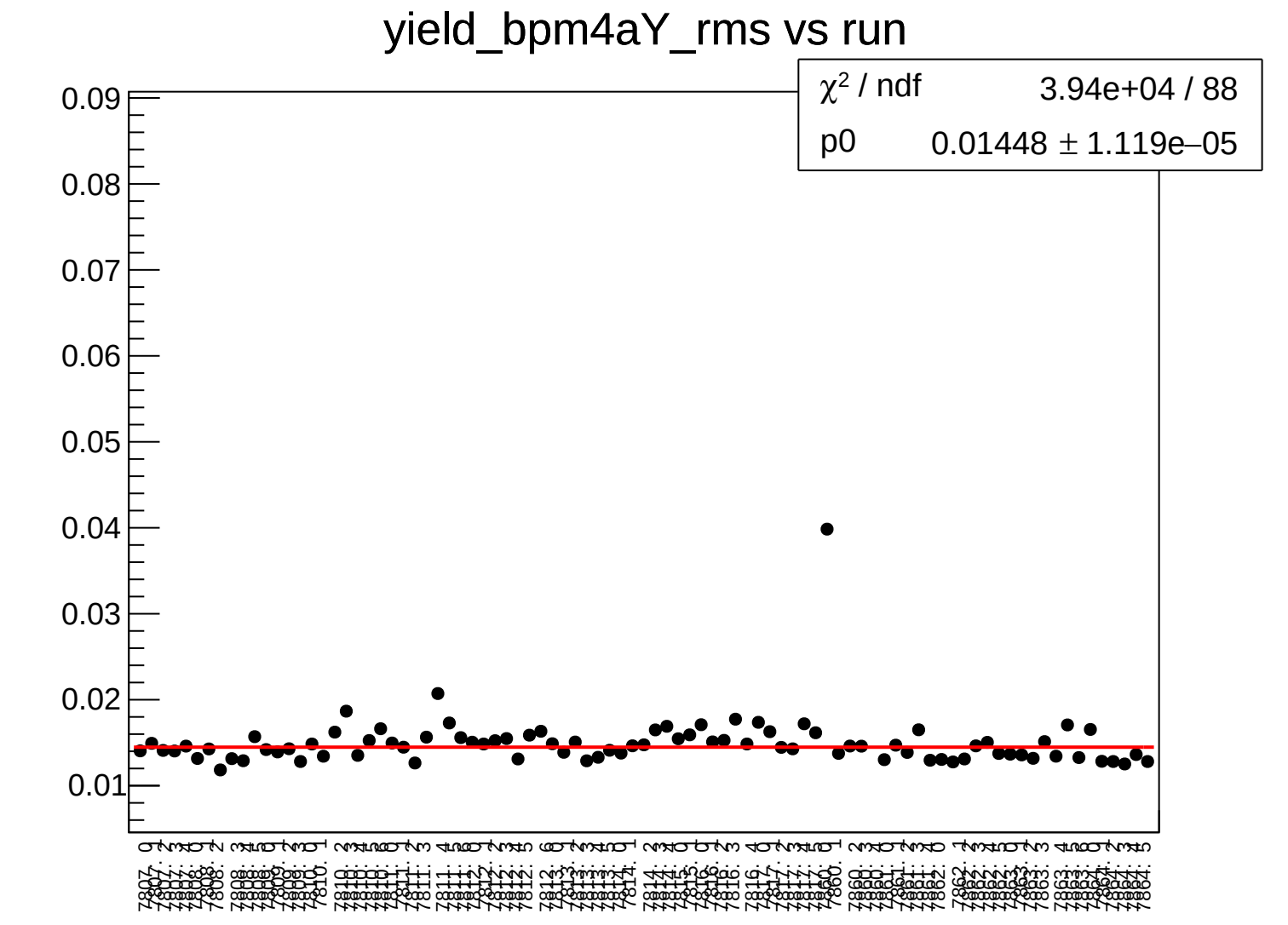

yield_bpm4aX_mean vs run
χ² / ndf 1.038e+05 / 88
p0 −0.5793 ± 7.541e−05
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
−0.66
−0.68
pull
Entries 89
Mean −2910
Std Dev 2969
80
60
40
20
0
−20
−40
−60
−80
−100

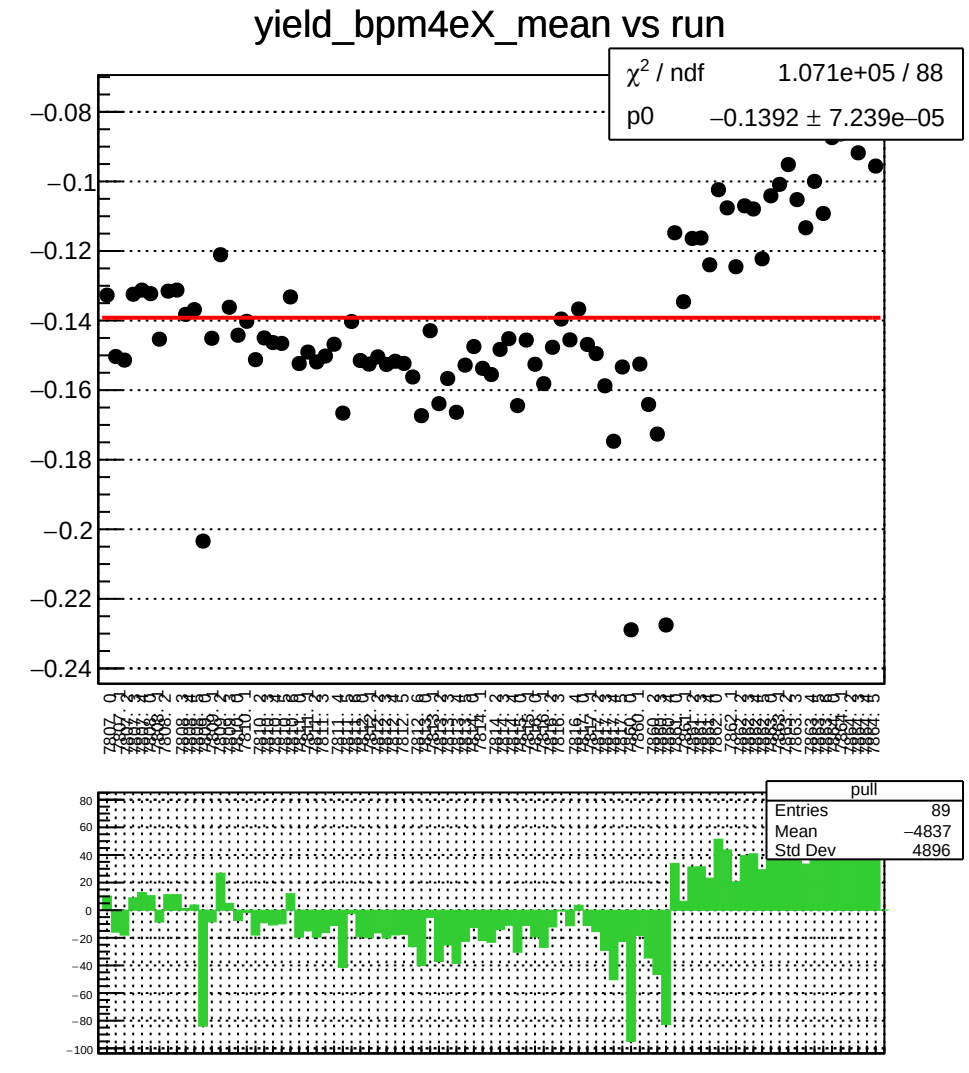

pull1D
Entries 89
Mean −0.5954
Std Dev 5.162
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

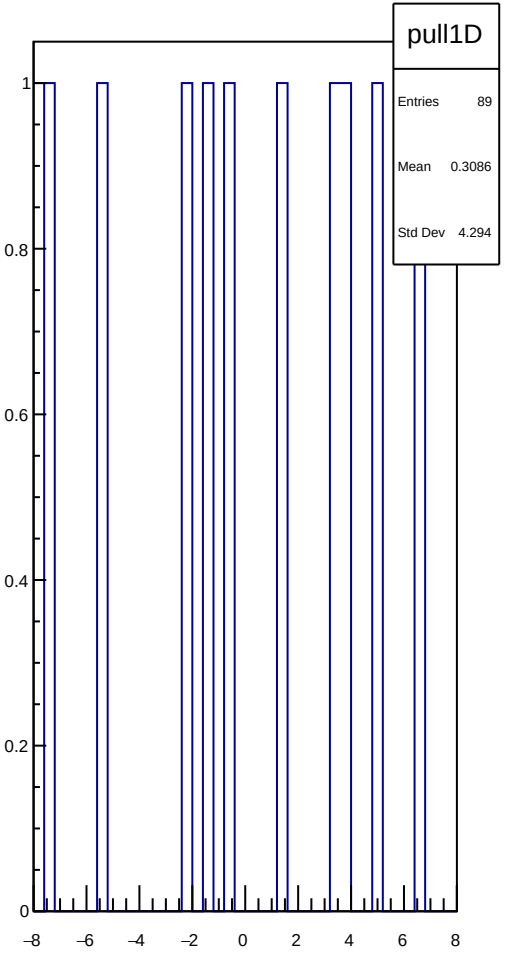

yield_bpm4aX_rms vs run
χ² / ndf 1.096e+04 / 88
p0 0.06957 ± 5.332e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06

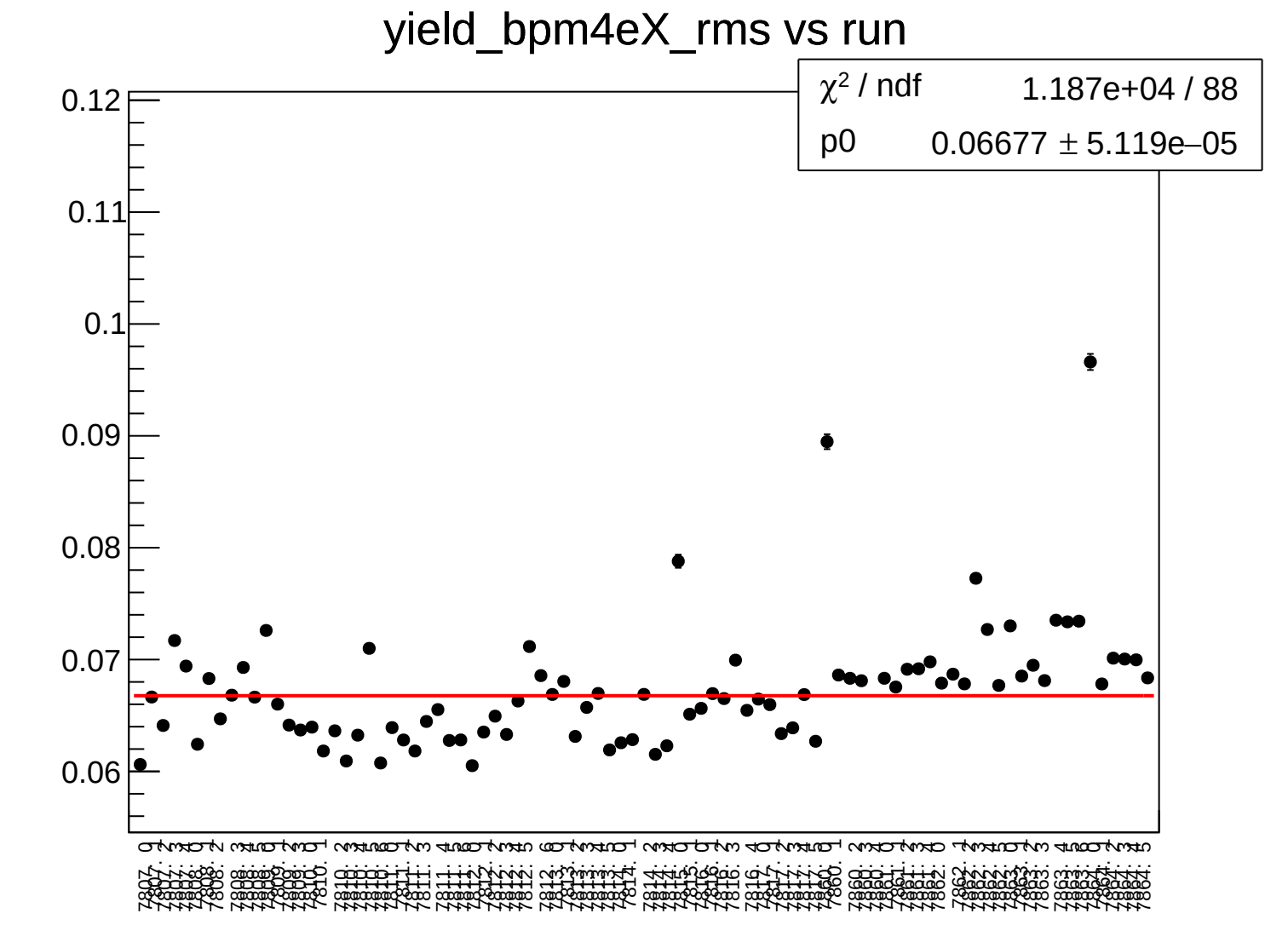

yield_bpm4aY_mean vs run
χ² / ndf 1.039e+05 / 88
p0 0.4757 ± 1.583e−05
pull
Entries 89
Mean 118
Std Dev 96.77

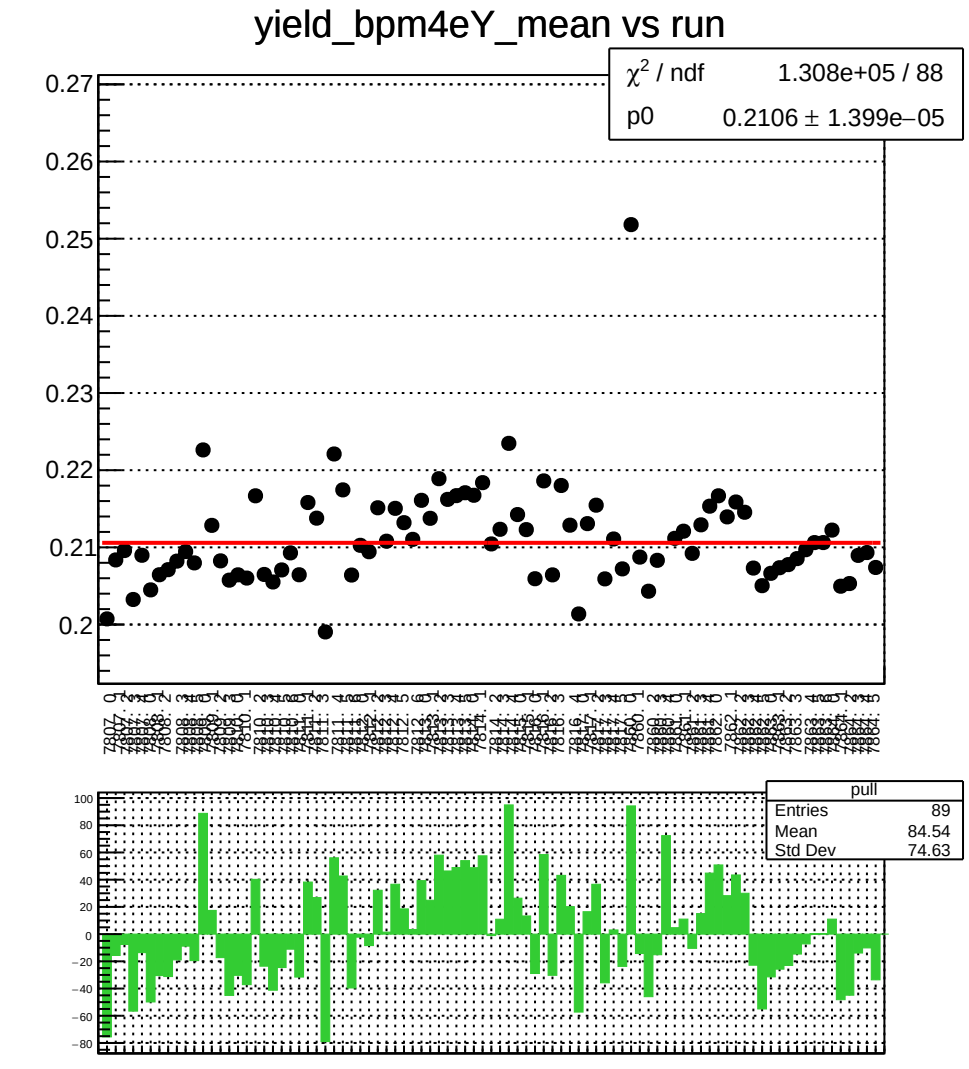

pull1D
Entries 89
Mean −1.003
Std Dev 4.89

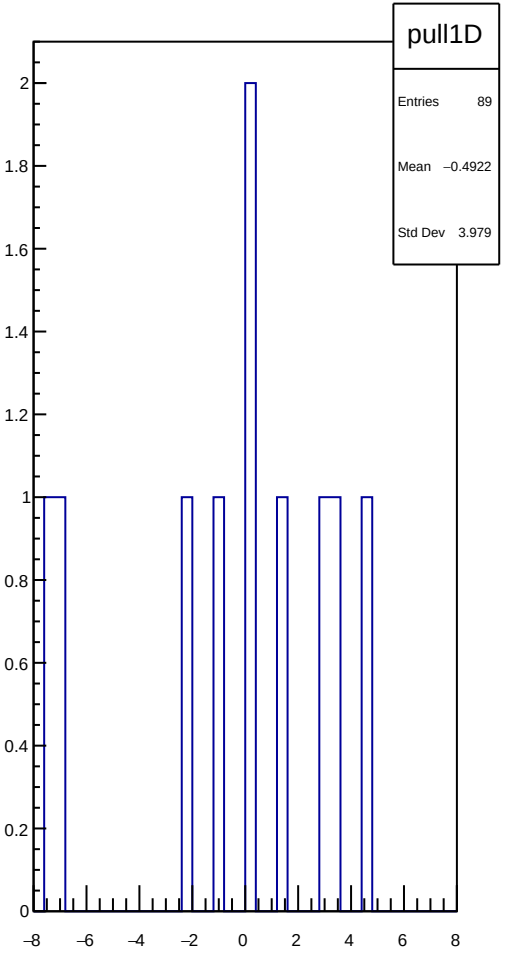

yield_bpm4aY_rms vs run
χ² / ndf 3.94e+04 / 88
p0 0.01448 ± 1.119e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

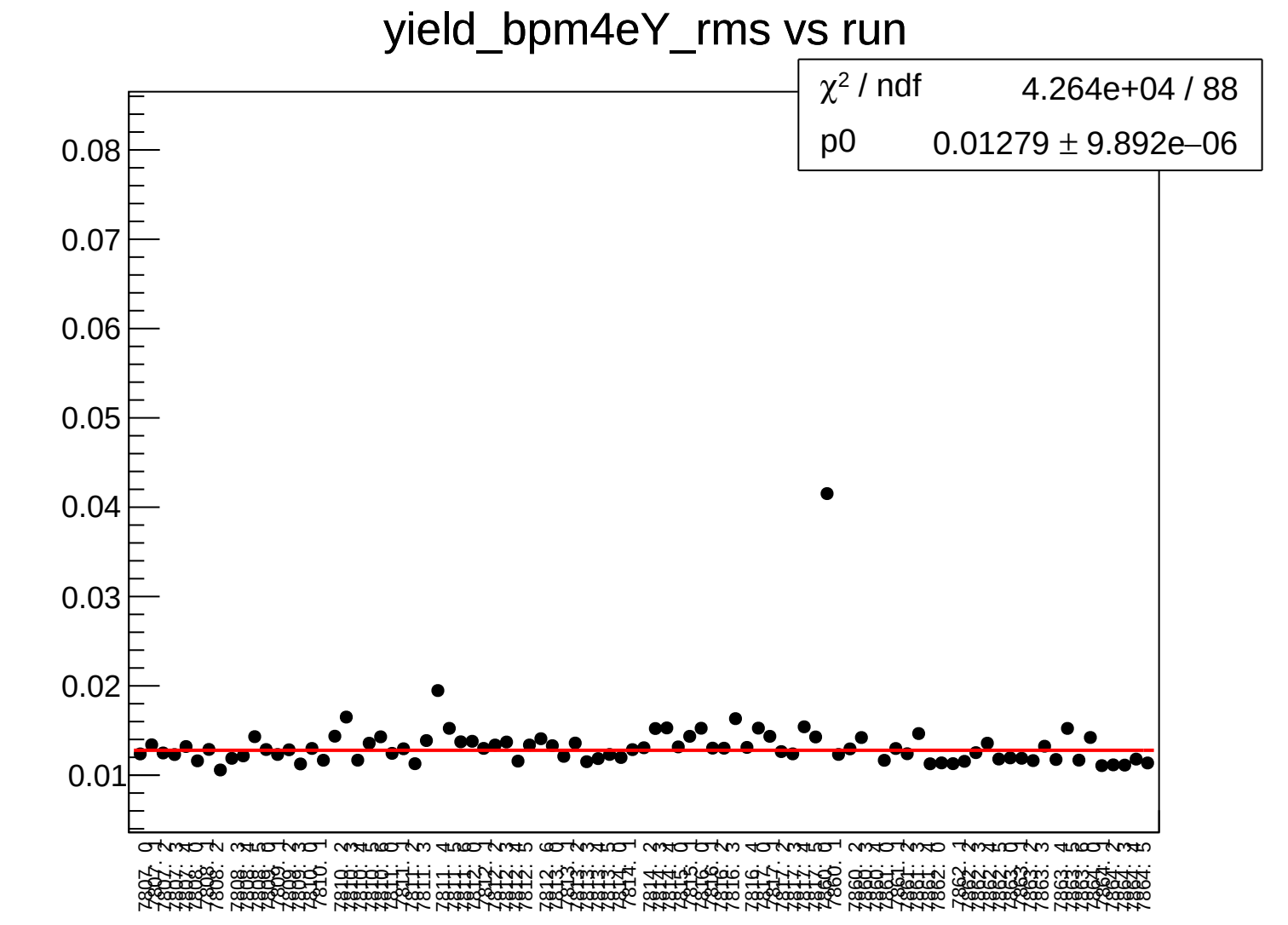

yield_bpm4eX_mean vs run
χ² / ndf 1.071e+05 / 88
p0 −0.1392 ± 7.239e−05
pull
Entries 89
Mean −4837
Std Dev 4896

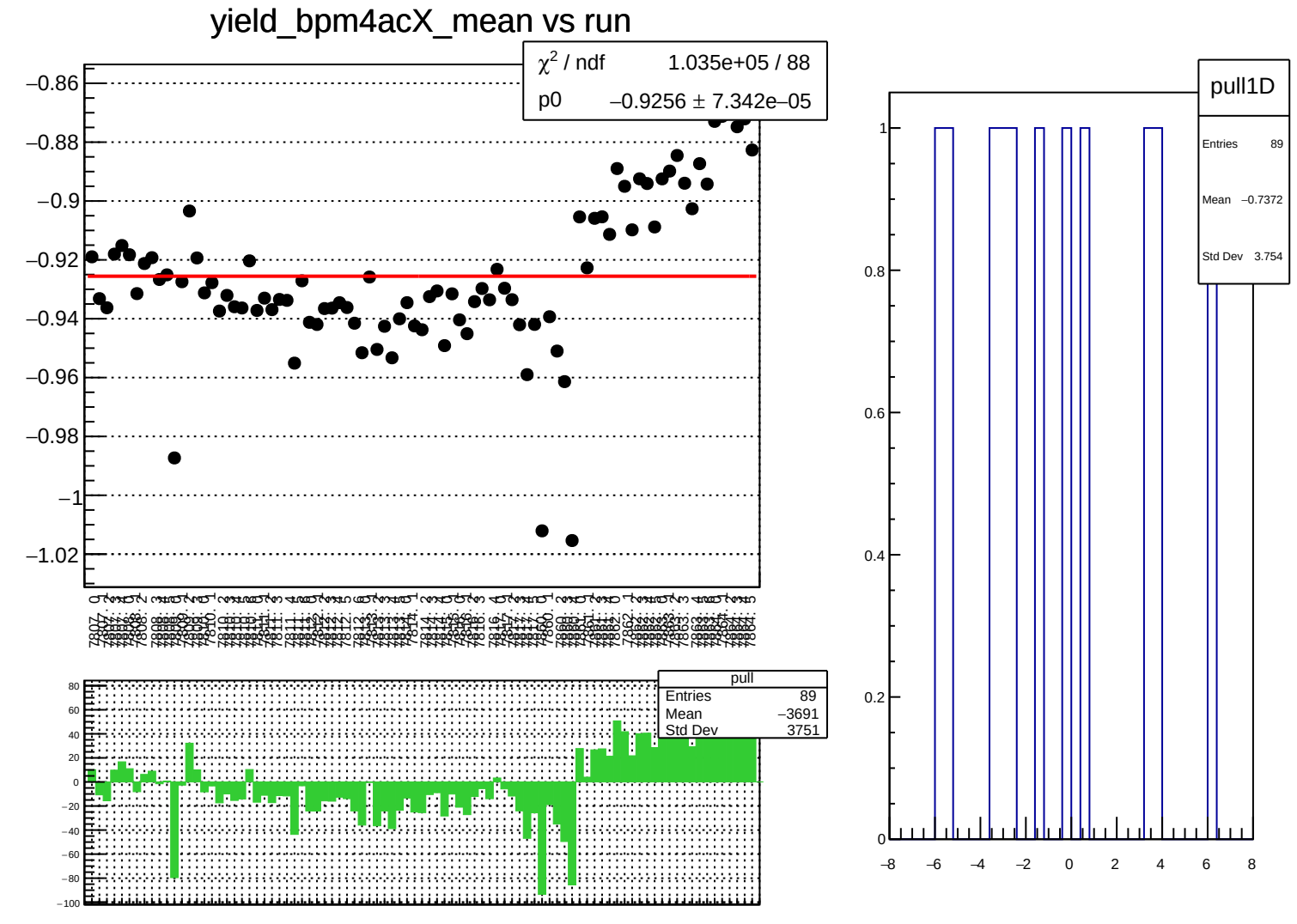

pull1D
Entries 89
Mean 0.3086
Std Dev 4.294

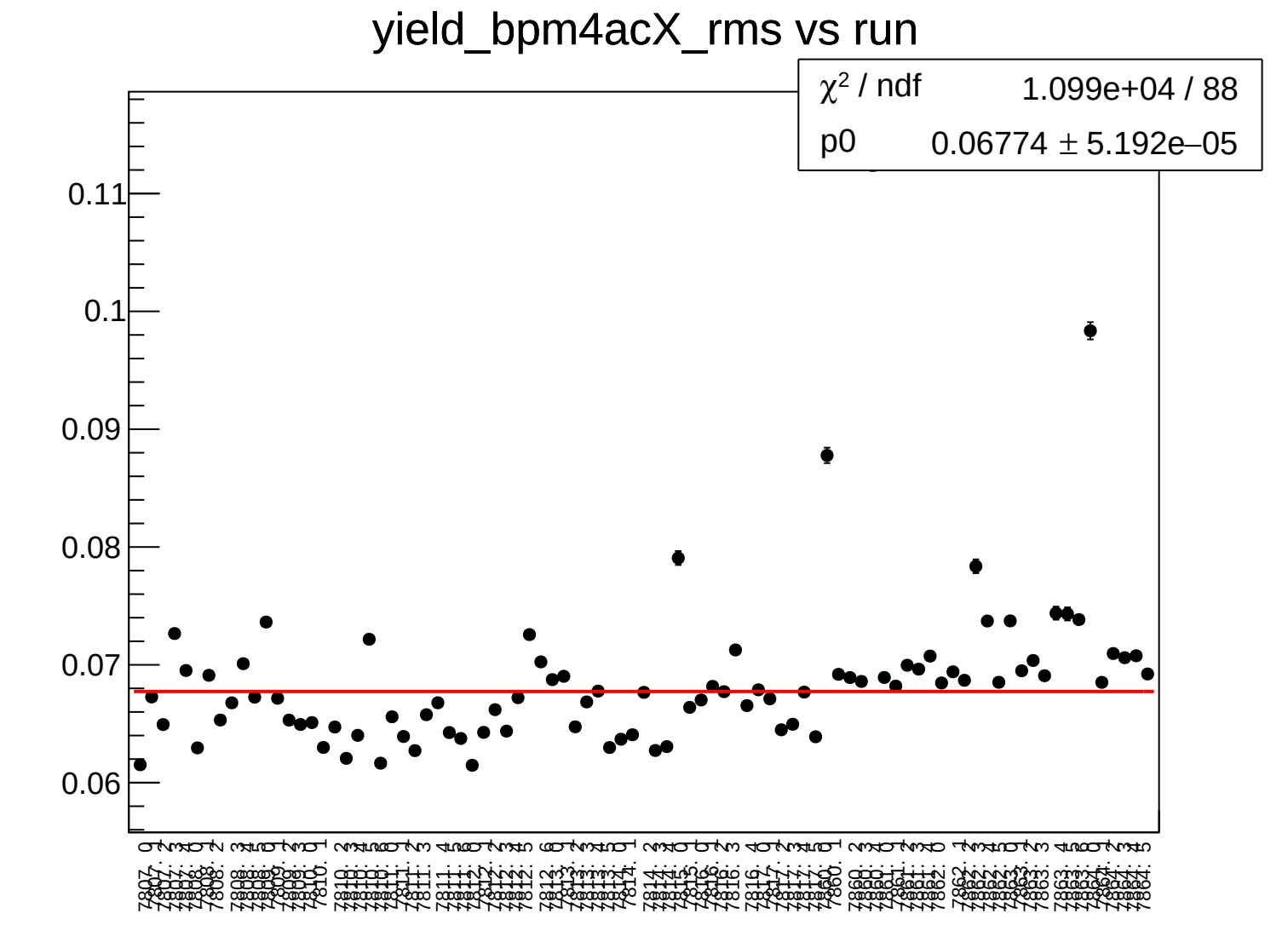

yield_bpm4eX_rms vs run
χ² / ndf 1.187e+04 / 88
p0 0.06677 ± 5.119e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06

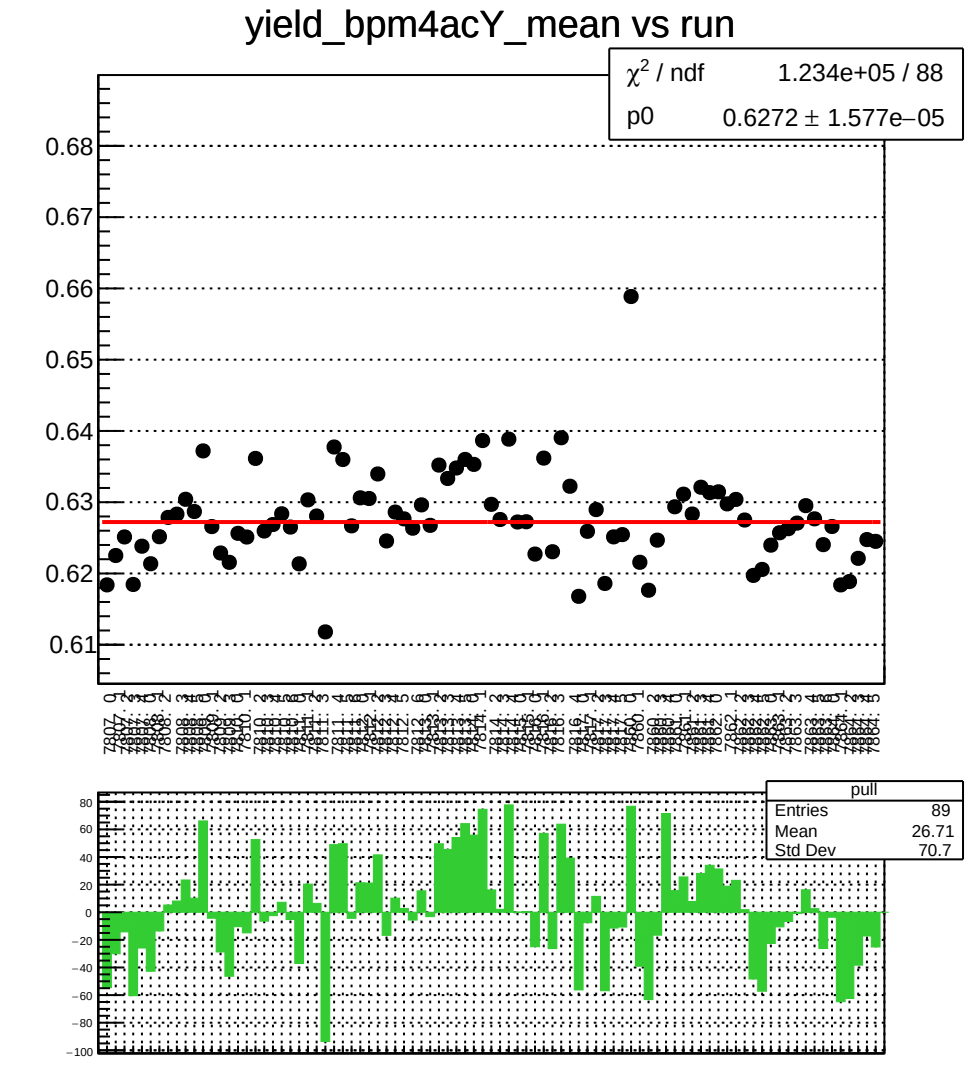

yield_bpm4eY_mean vs run
χ² / ndf 1.308e+05 / 88
p0 0.2106 ± 1.399e−05
pull
Entries 89
Mean 84.54
Std Dev 74.63

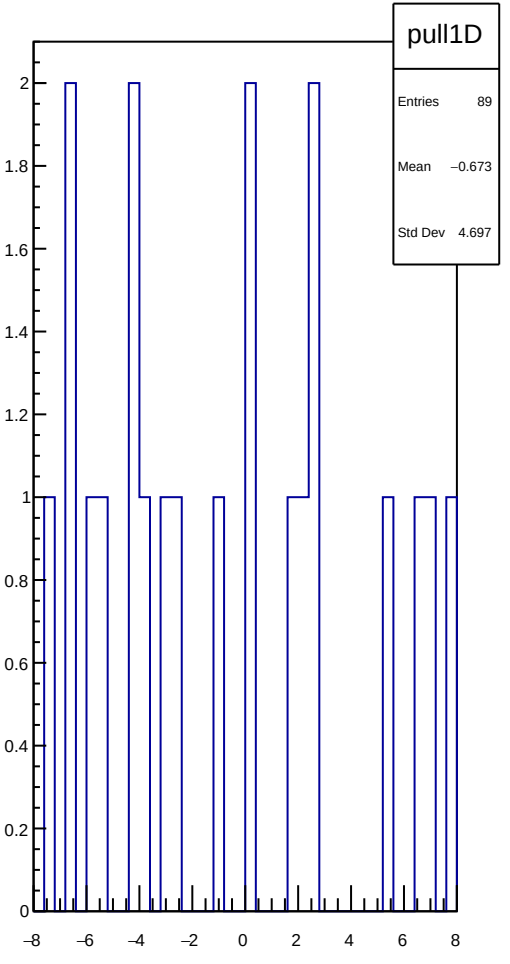

pull1D
Entries 89
Mean −0.4922
Std Dev 3.979

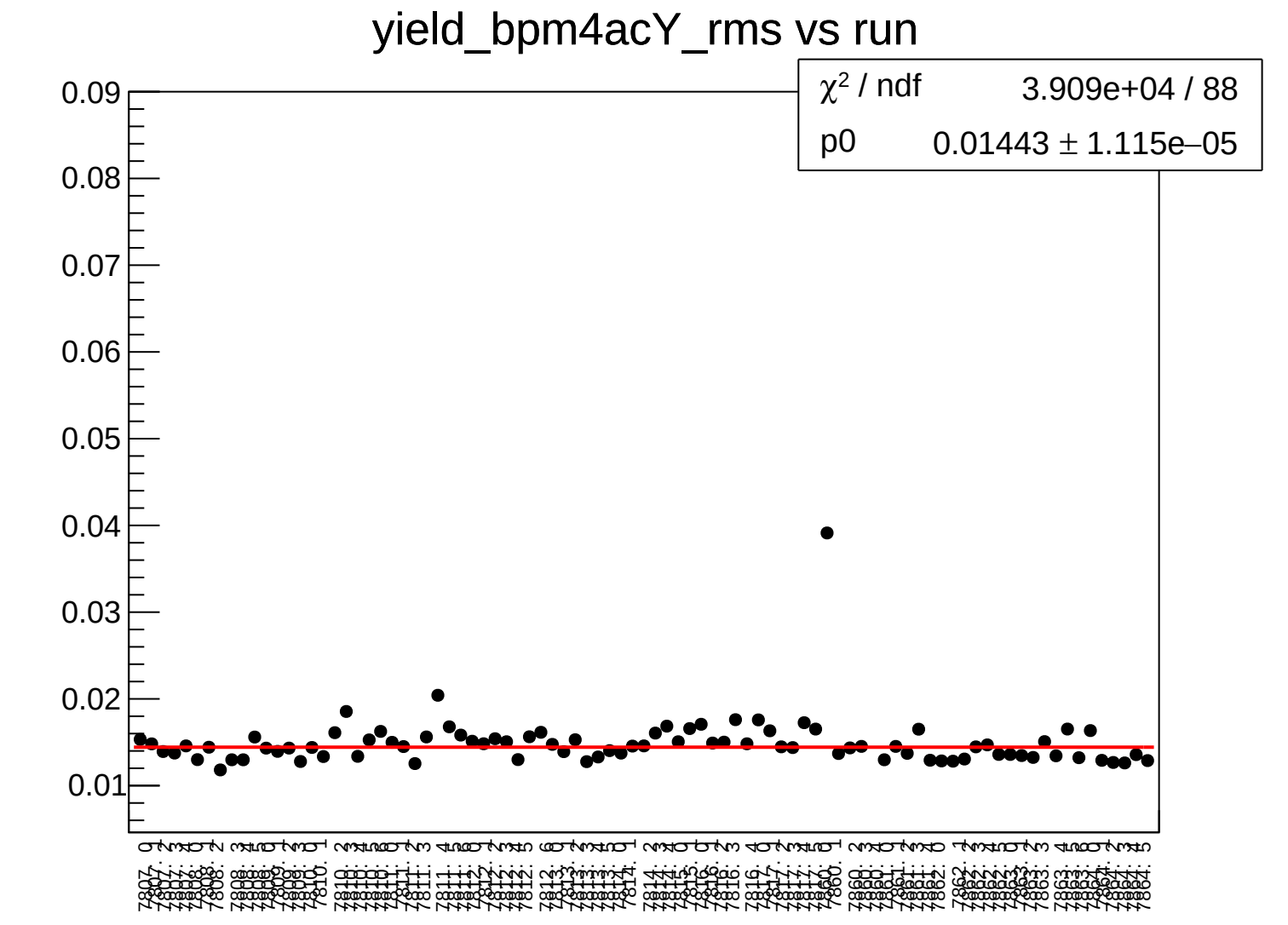

yield_bpm4eY_rms vs run
χ² / ndf 4.264e+04 / 88
p0 0.01279 ± 9.892e–06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

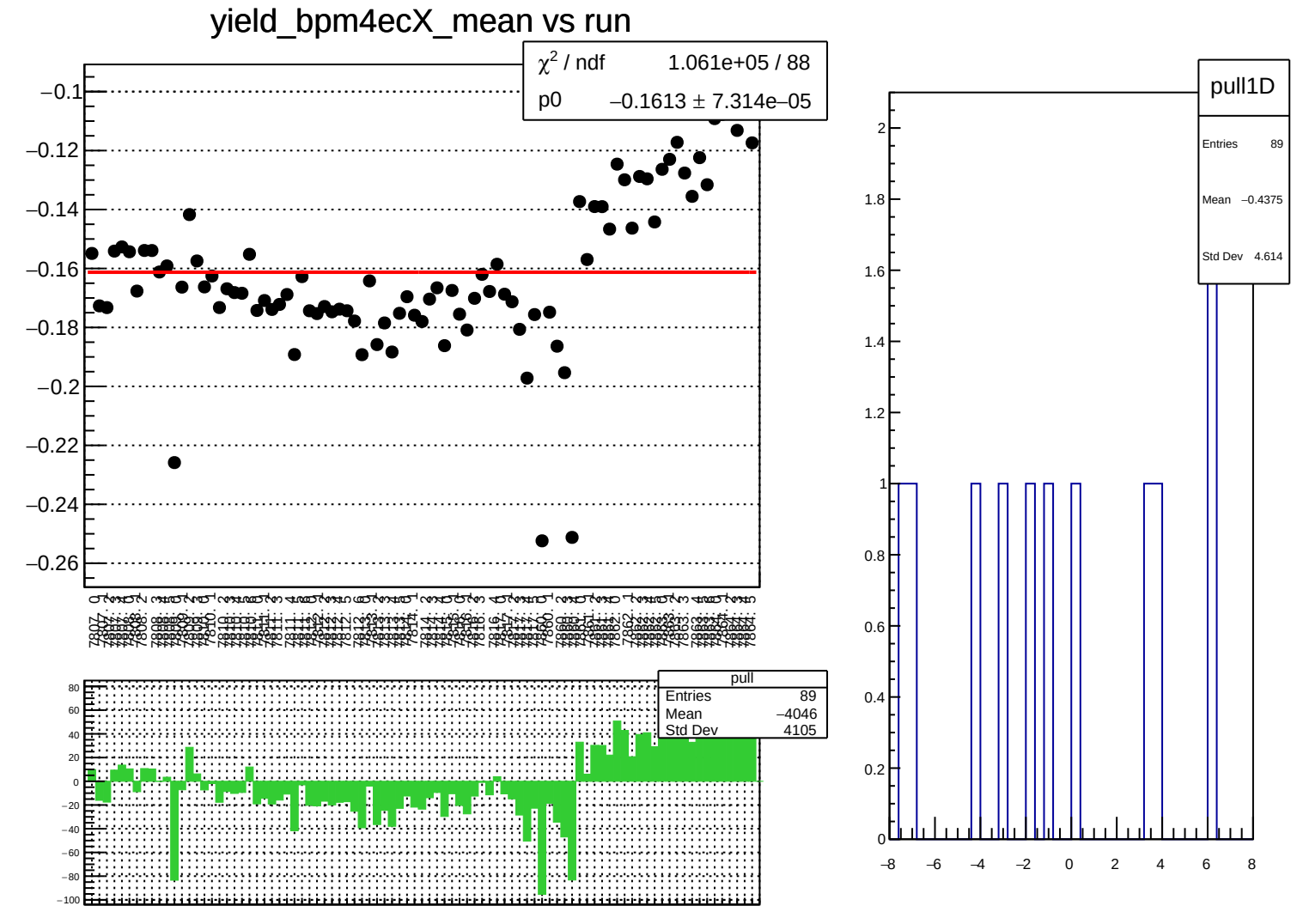

yield_bpm4acX_mean vs run
χ² / ndf 1.035e+05 / 88
p0 −0.9256 ± 7.342e−05
pull
Entries 89
Mean −3691
Std Dev 3751
pull1D
Entries 89
Mean −0.7372
Std Dev 3.754

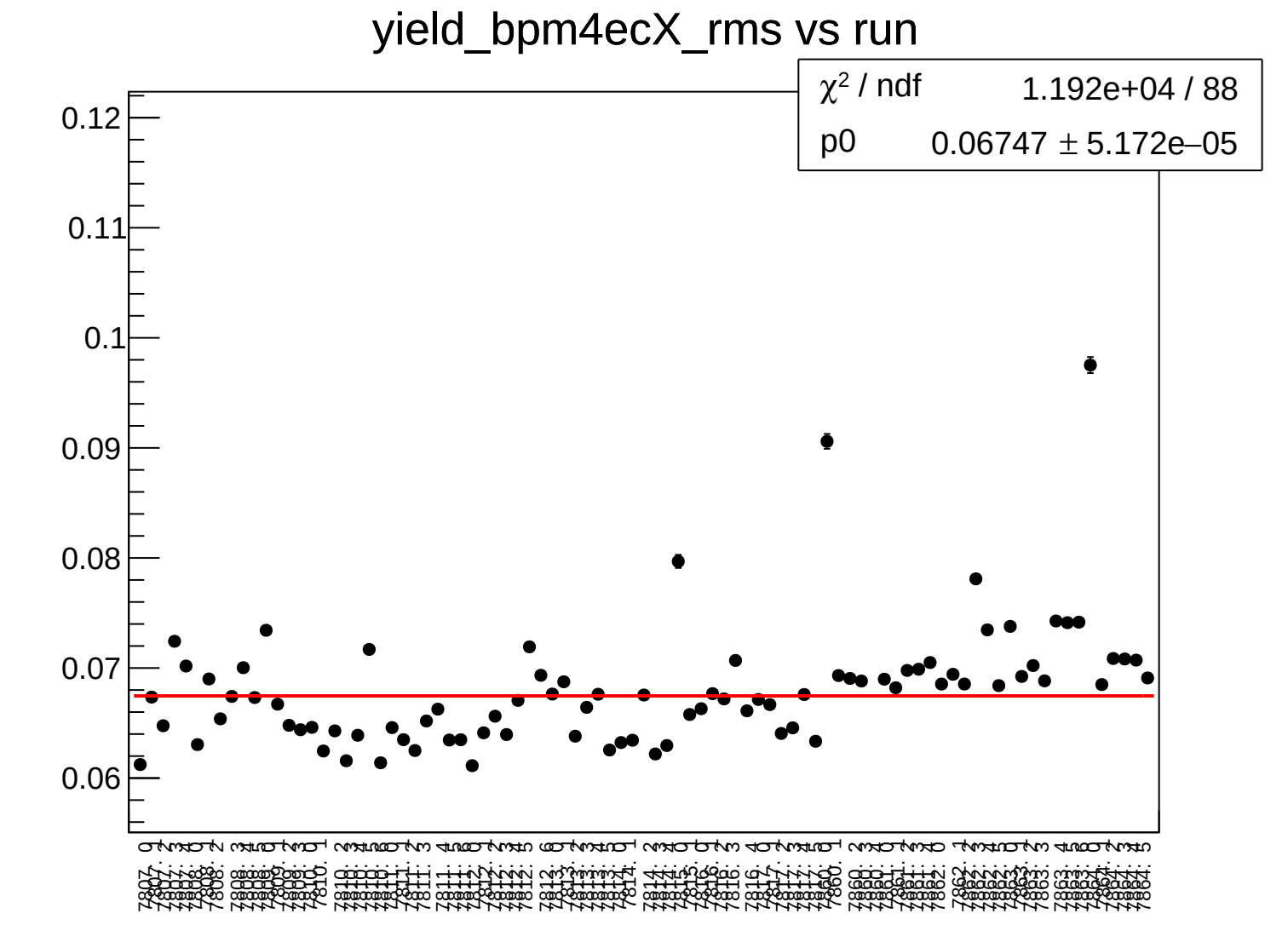

yield_bpm4acX_rms vs run
χ² / ndf 1.099e+04 / 88
p0 0.06774 ± 5.192e–05
0.11
0.1
0.09
0.08
0.07
0.06

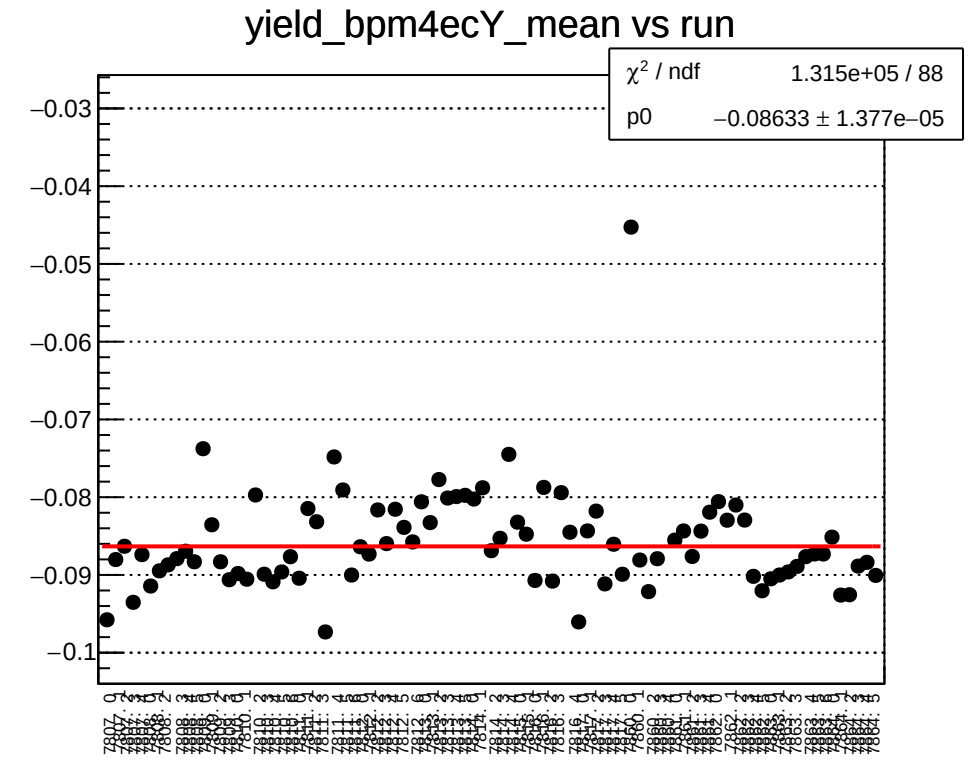

yield_bpm4acY_mean vs run
χ² / ndf 1.234e+05 / 88
p0 0.6272 ± 1.577e−05
0.68
0.67
0.66
0.65
0.64
0.63
0.62
0.61
pull
Entries 89
Mean 26.71
Std Dev 70.7
80
60
40
20
0
−20
−40
−60
−80
−100

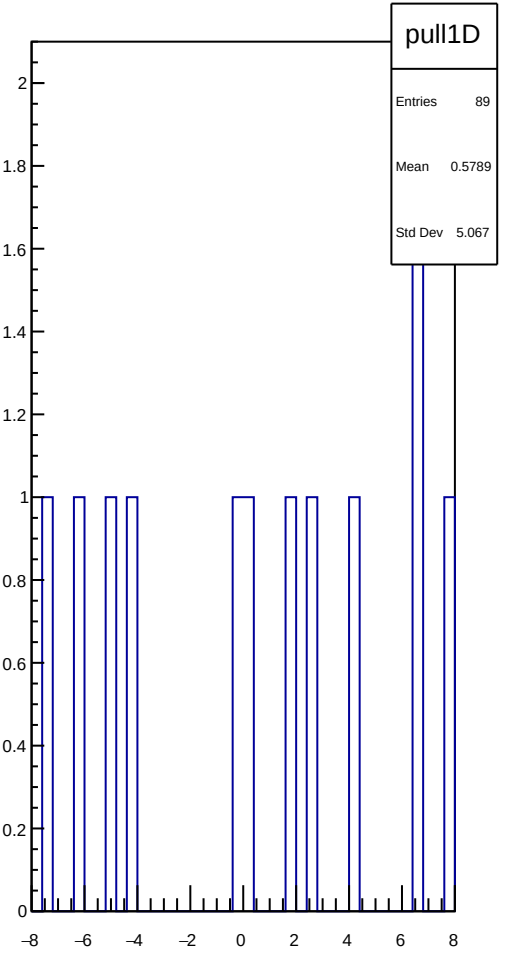

pull1D
Entries 89
Mean −0.673
Std Dev 4.697
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

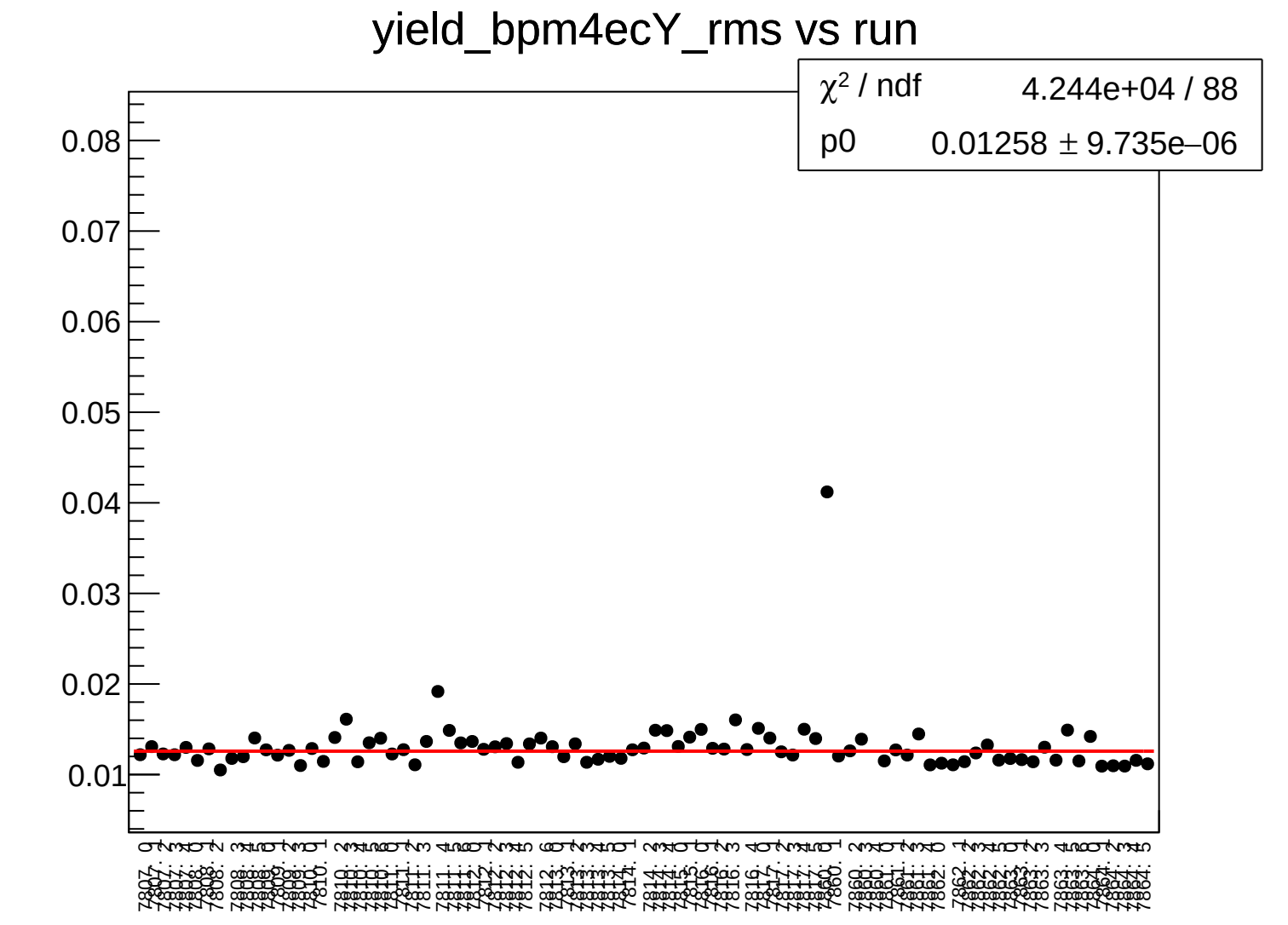

yield_bpm4acY_rms vs run
χ² / ndf 3.909e+04 / 88
p0 0.01443 ± 1.115e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

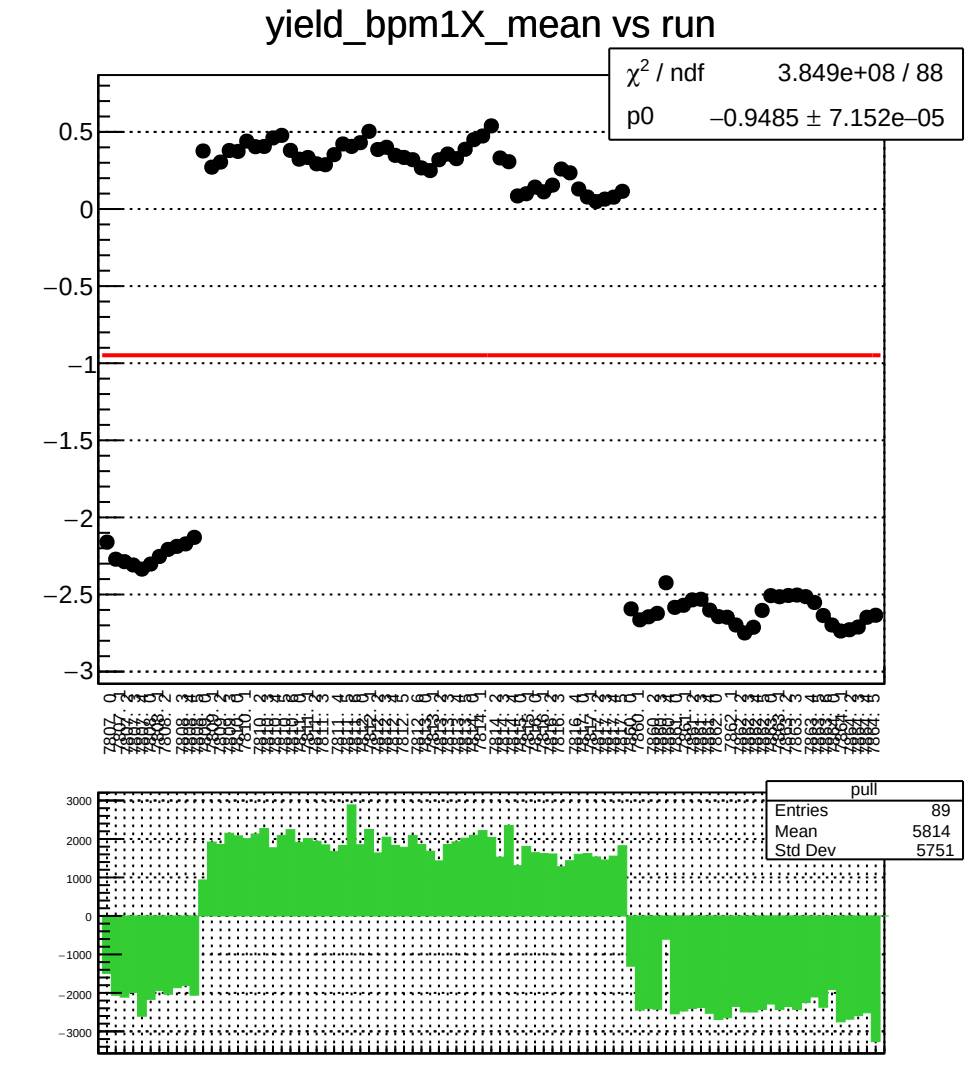

yield_bpm4ecX_mean vs run
χ² / ndf 1.061e+05 / 88
p0 −0.1613 ± 7.314e−05
pull
Entries 89
Mean −4046
Std Dev 4105
pull1D
Entries 89
Mean −0.4375
Std Dev 4.614

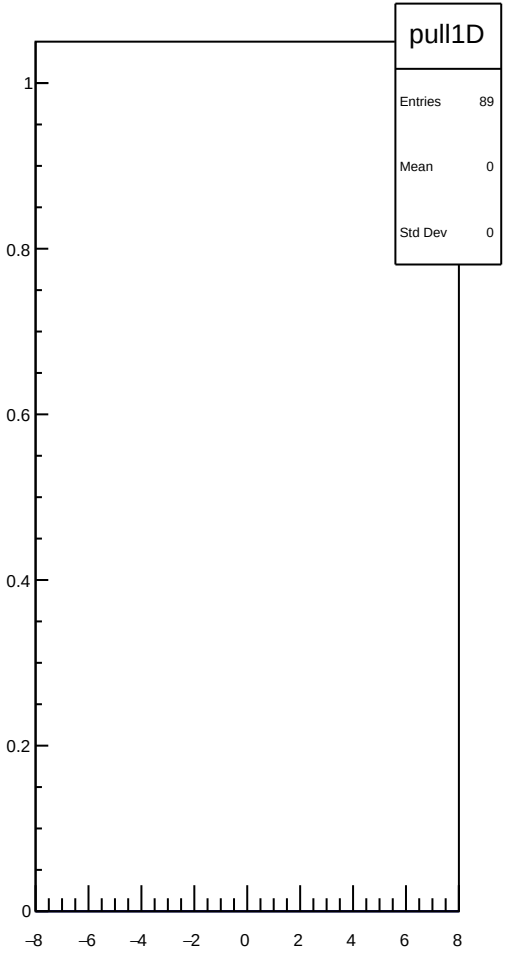

yield_bpm4ecX_rms vs run
χ² / ndf 1.192e+04 / 88
p0 0.06747 ± 5.172e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06

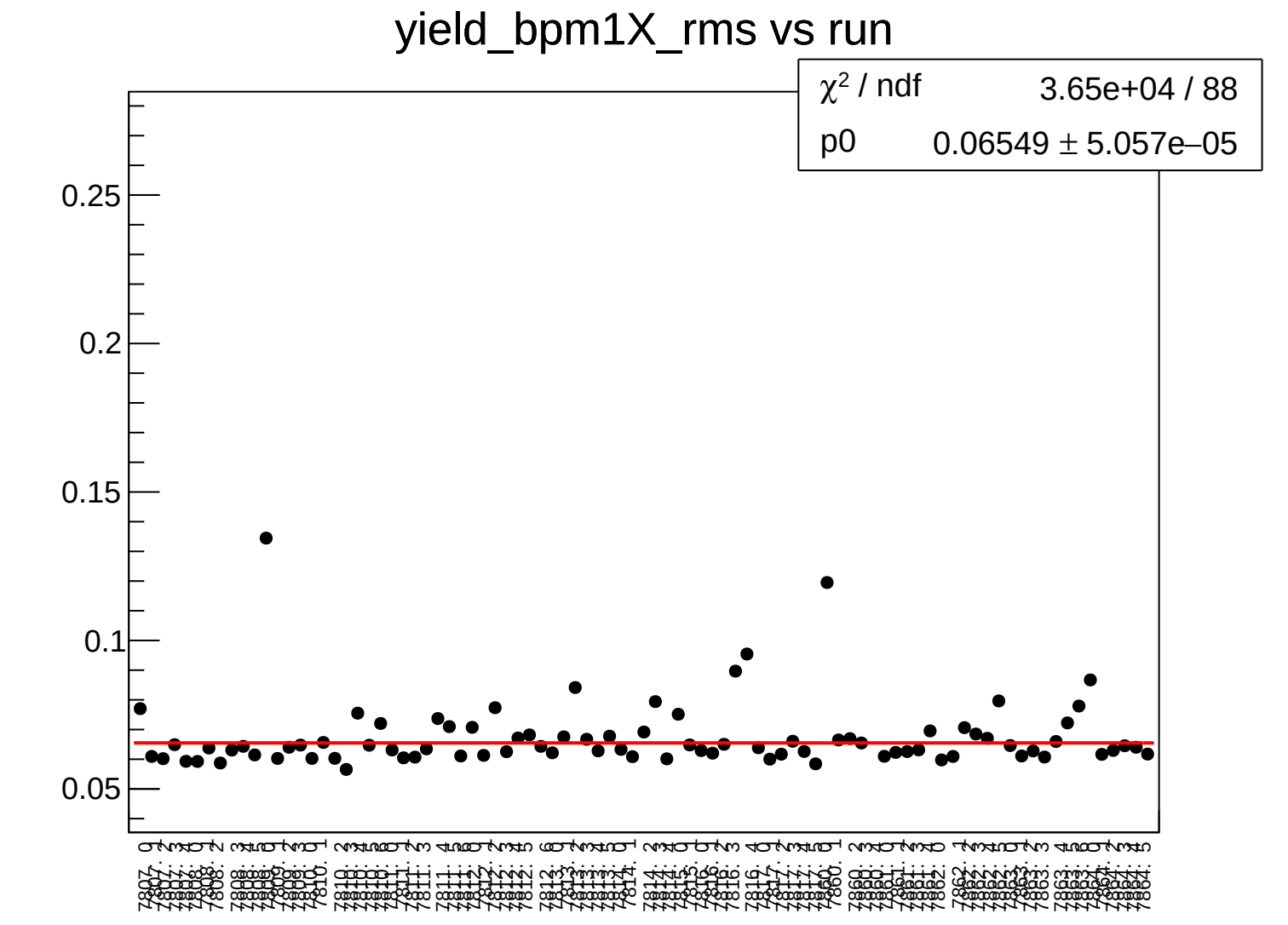

yield_bpm4ecY_mean vs run
χ² / ndf 1.315e+05 / 88
p0 −0.08633 ± 1.377e−05
−0.03
−0.04
−0.05
−0.06
−0.07
−0.08
−0.09
−0.1
pull
Entries 89
Mean 49.68
Std Dev 62.71
100
80
60
40
20
0
−20
−40
−60
−80

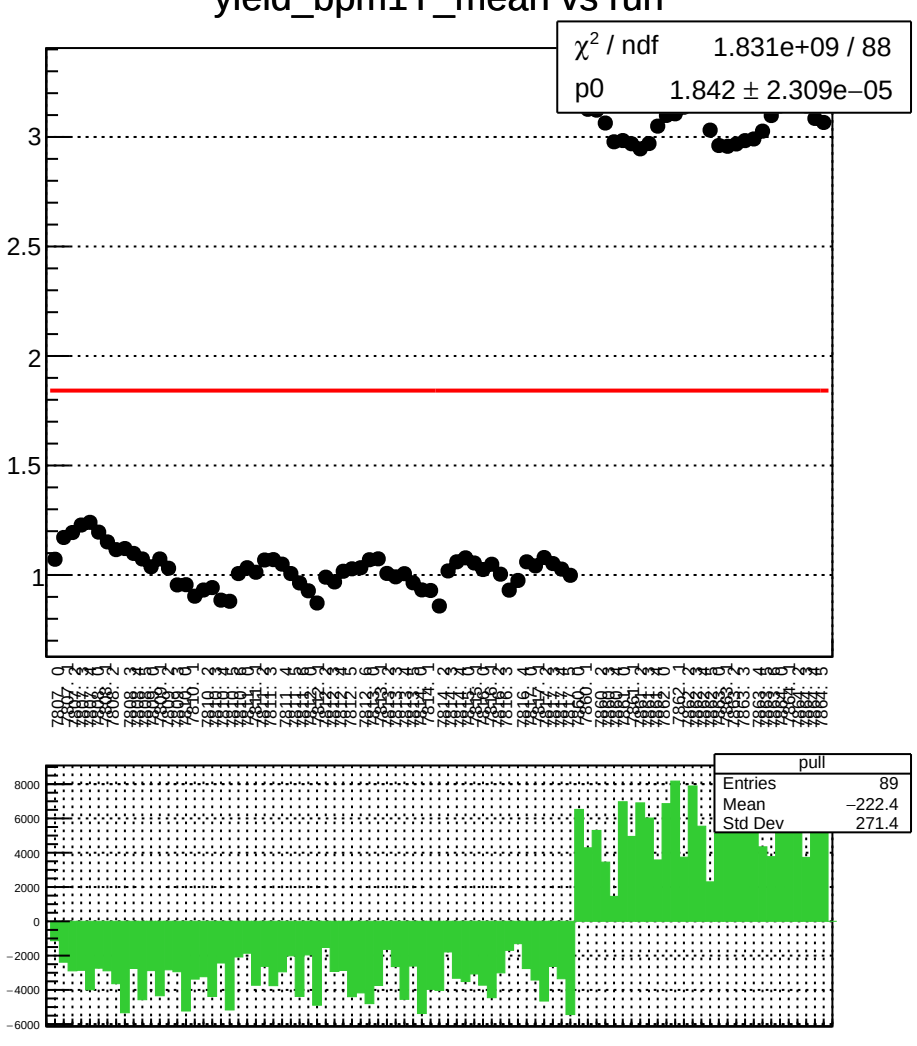

pull1D
Entries 89
Mean 0.5789
Std Dev 5.067
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

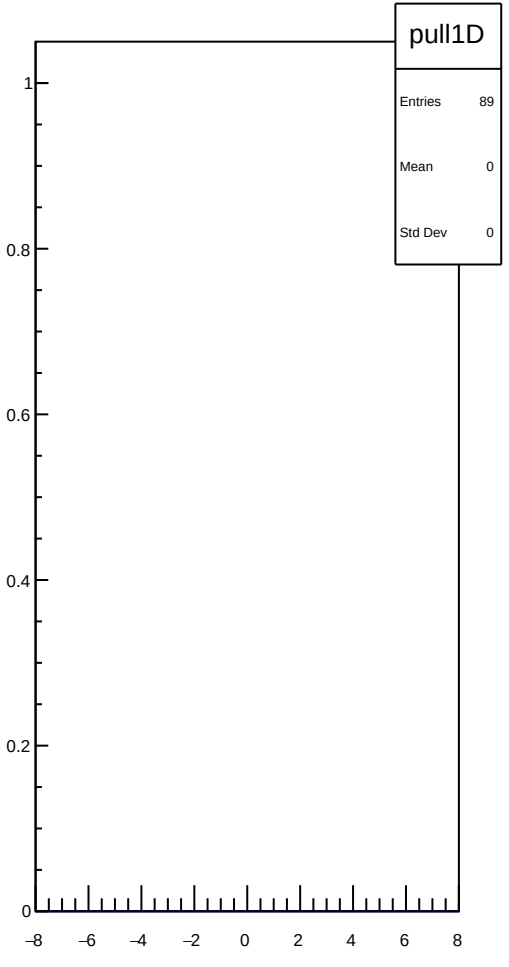

yield_bpm4ecY_rms vs run
χ² / ndf 4.244e+04 / 88
p0 0.01258 ± 9.735e–06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

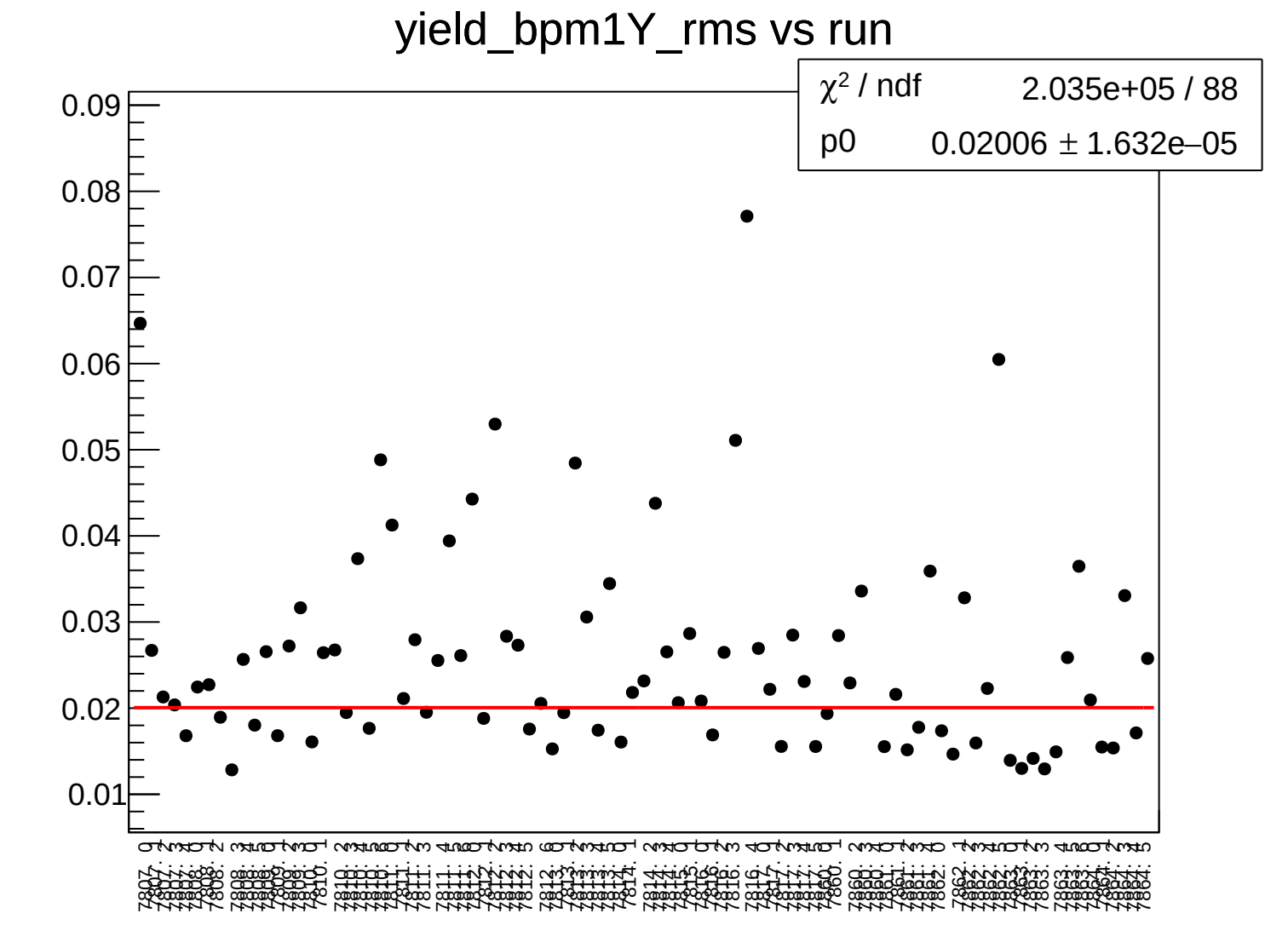

yield_bpm1X_mean vs run
χ² / ndf 3.849e+08 / 88
p0 −0.9485 ± 7.152e−05
pull
Entries 89
Mean 5814
Std Dev 5751

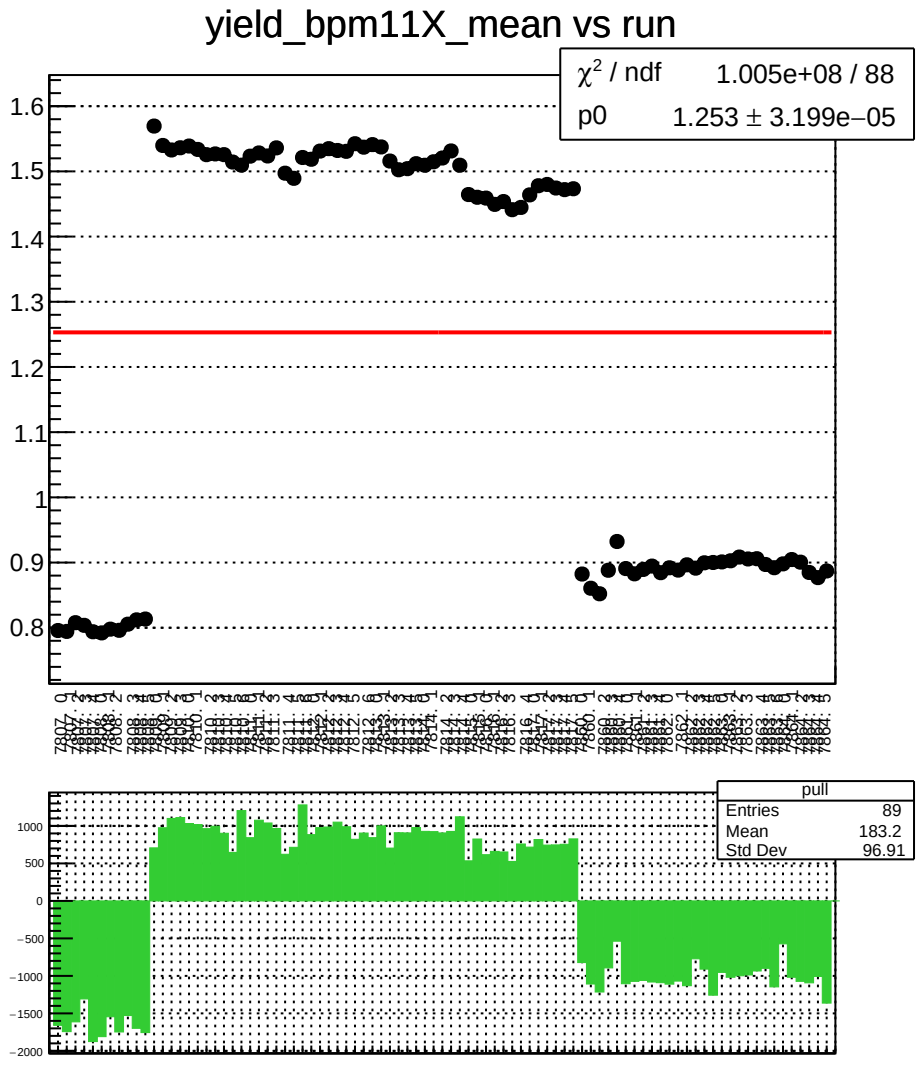

pull1D
Entries 89
Mean 0
Std Dev 0

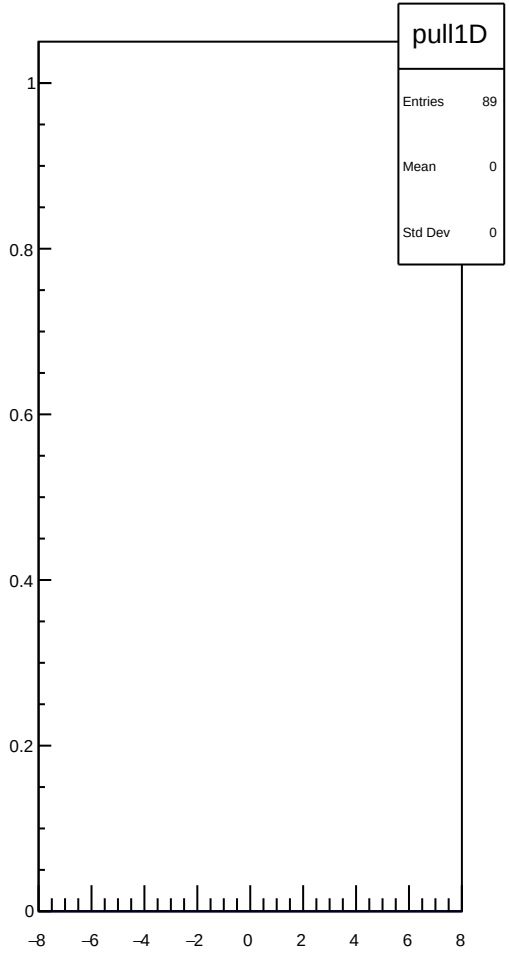

yield_bpm1X_rms vs run
χ² / ndf 3.65e+04 / 88
p0 0.06549 ± 5.057e–05
0.25
0.2
0.15
0.1
0.05

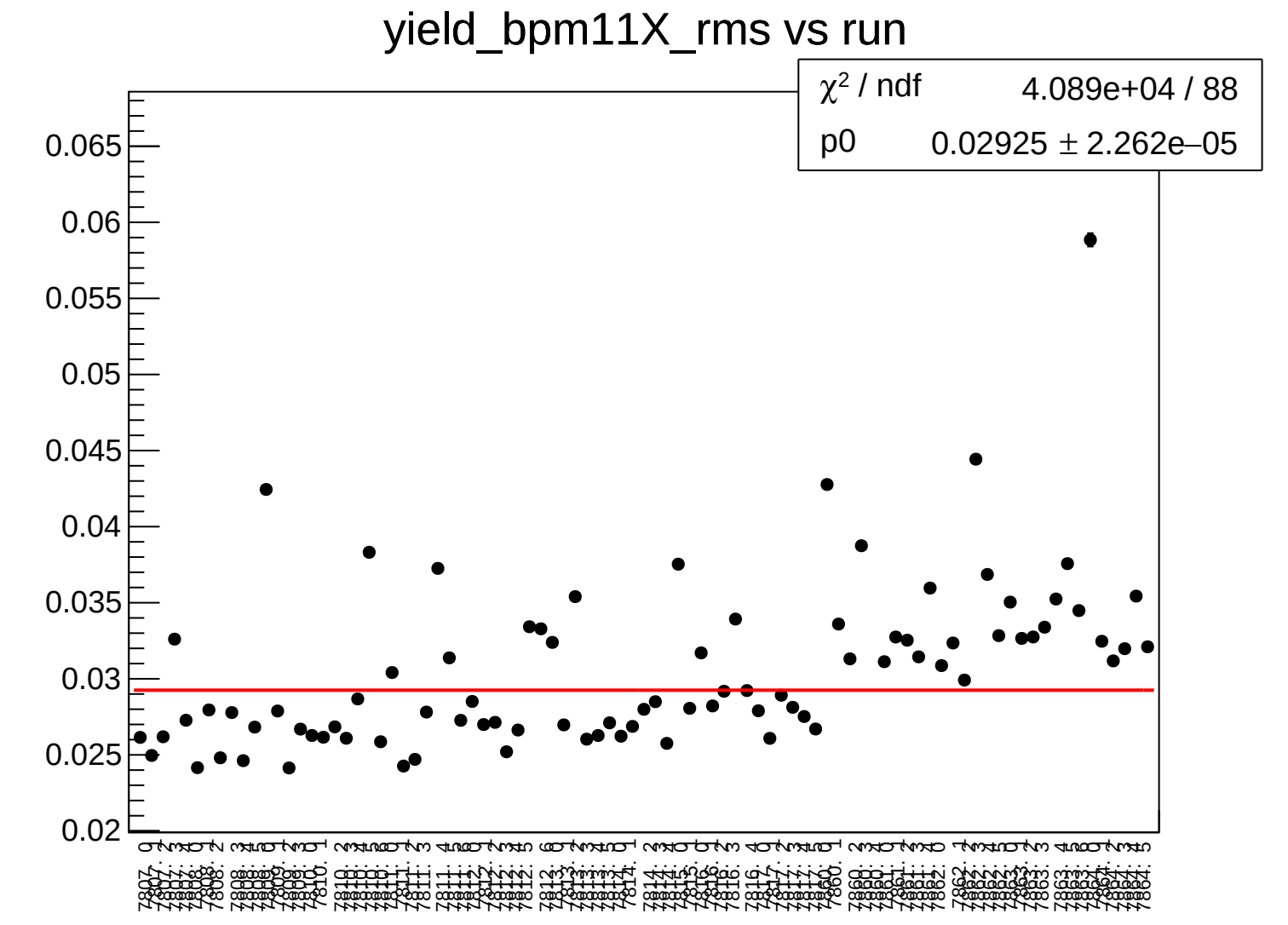

yield_bpm1Y_mean vs run
χ² / ndf 1.831e+09 / 88
p0 1.842 ± 2.309e−05
pull
Entries 89
Mean −222.4
Std Dev 271.4

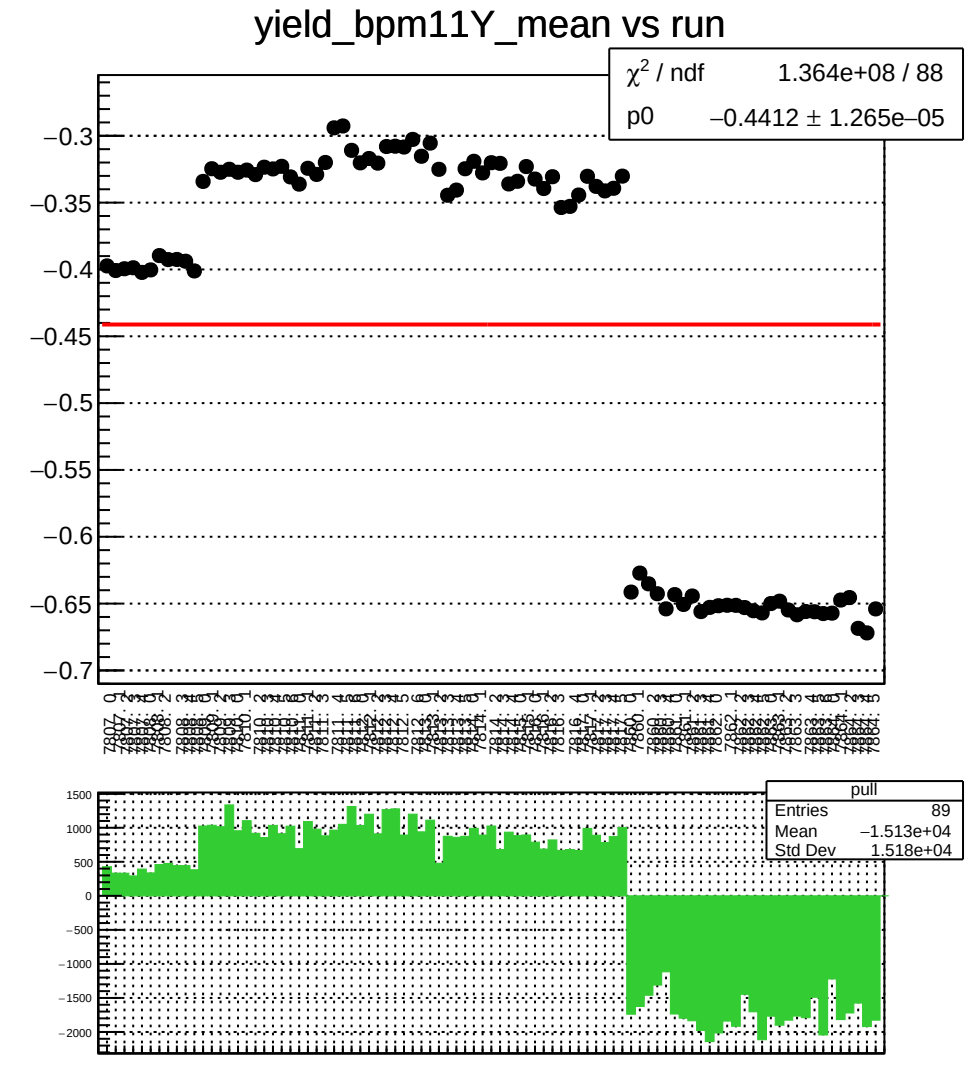

pull1D
Entries 89
Mean 0
Std Dev 0

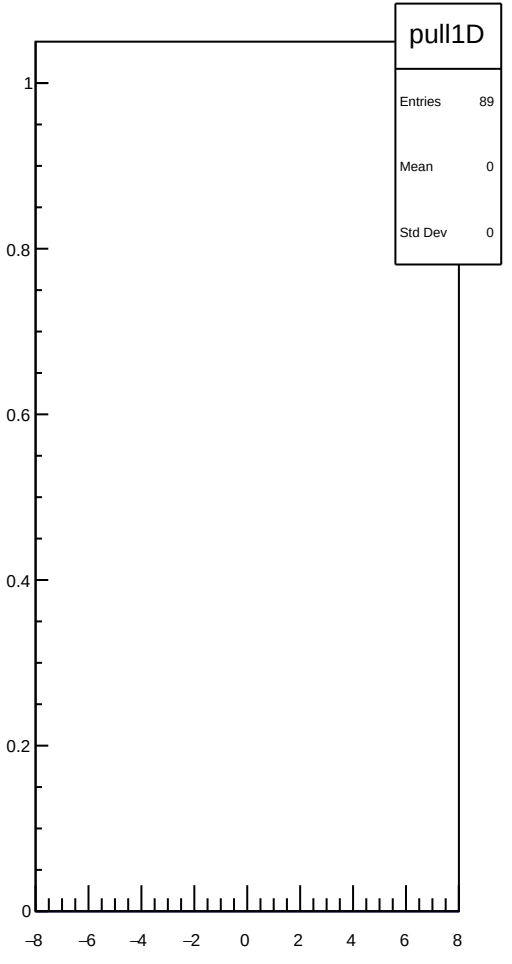

yield_bpm1Y_rms vs run
χ² / ndf 2.035e+05 / 88
p0 0.02006 ± 1.632e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

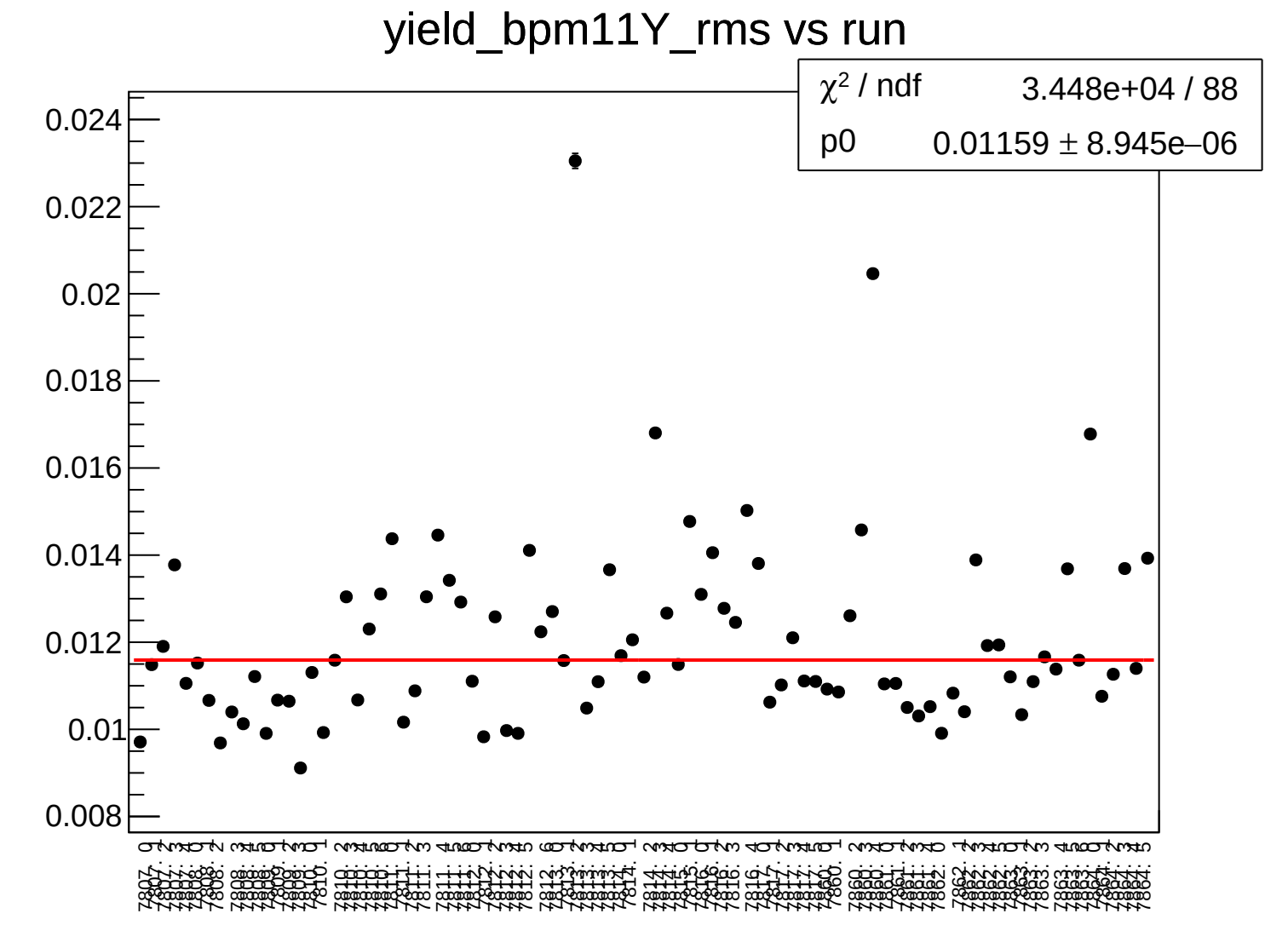

yield_bpm11X_mean vs run
χ² / ndf 1.005e+08 / 88
p0 1.253 ± 3.199e−05
pull
Entries 89
Mean 183.2
Std Dev 96.91

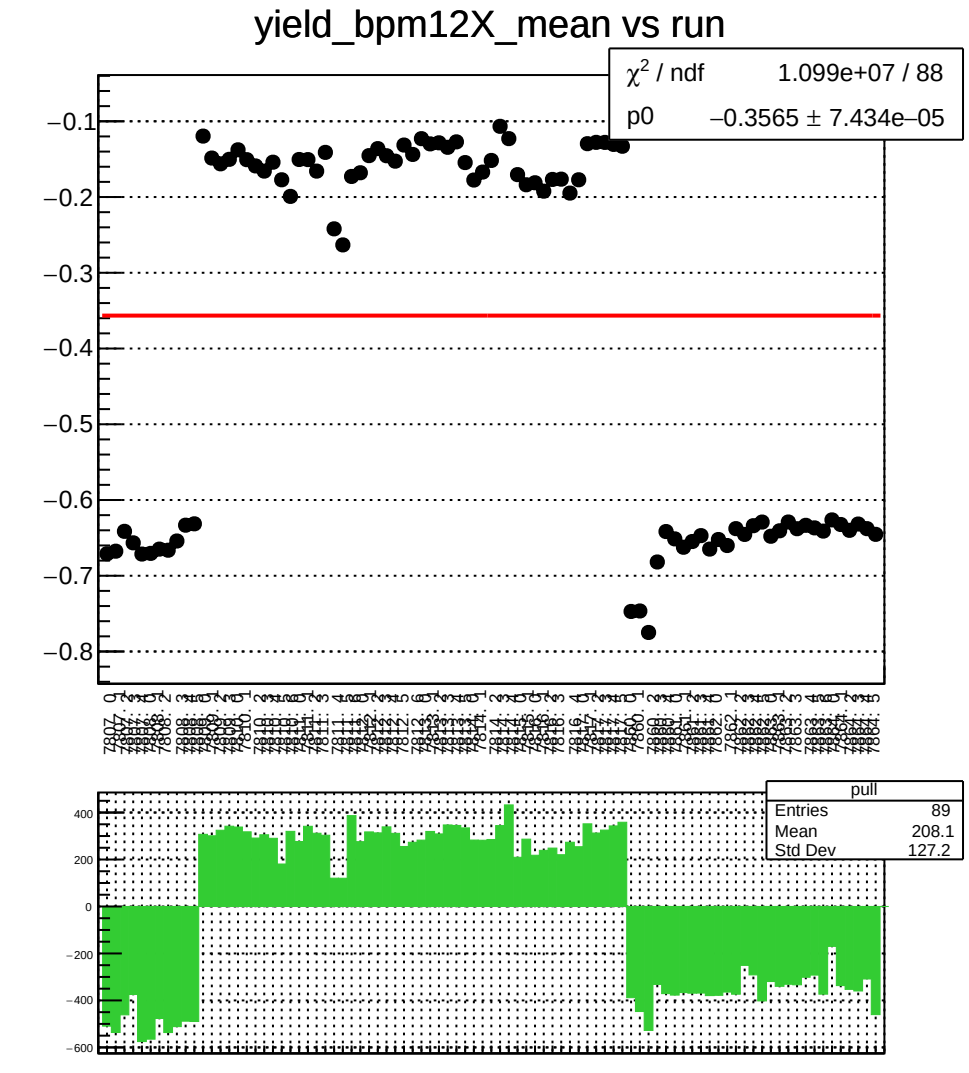

pull1D
Entries 89
Mean 0
Std Dev 0

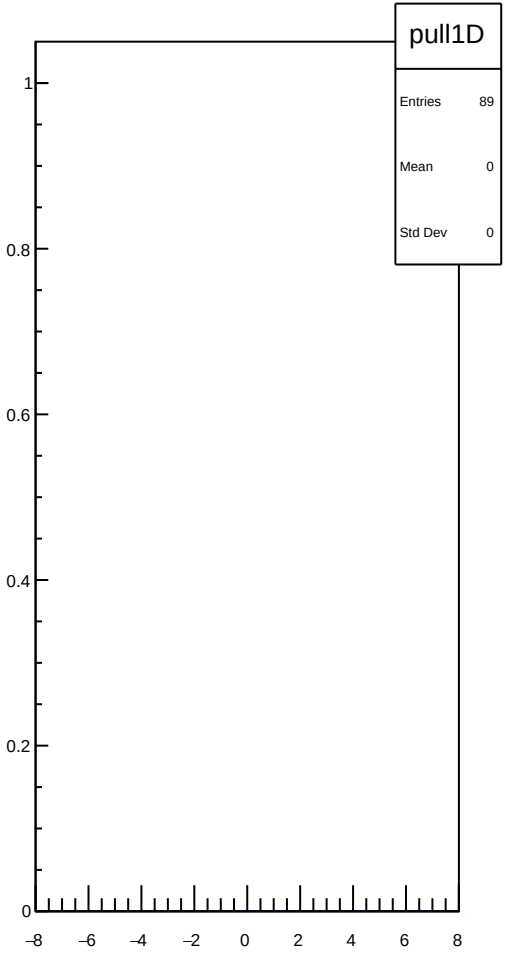

yield_bpm11X_rms vs run
χ² / ndf 4.089e+04 / 88
p0 0.02925 ± 2.262e–05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02

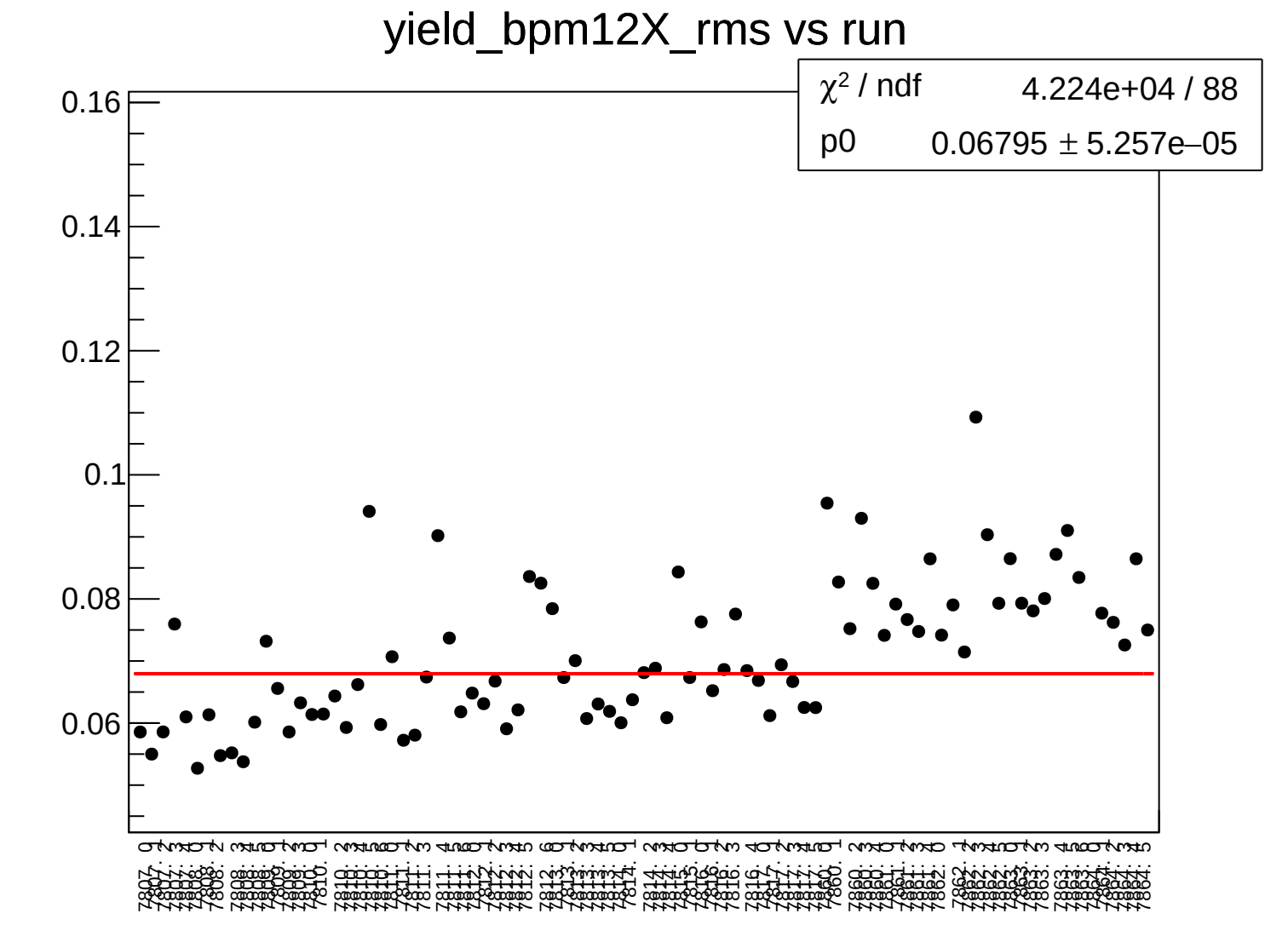

yield_bpm11Y_mean vs run
χ² / ndf 1.364e+08 / 88
p0 −0.4412 ± 1.265e−05
−0.3
−0.35
−0.4
−0.45
−0.5
−0.55
−0.6
−0.65
−0.7
pull
Entries 89
Mean −1.513e+04
Std Dev 1.518e+04
1500
1000
500
0
−500
−1000
−1500
−2000

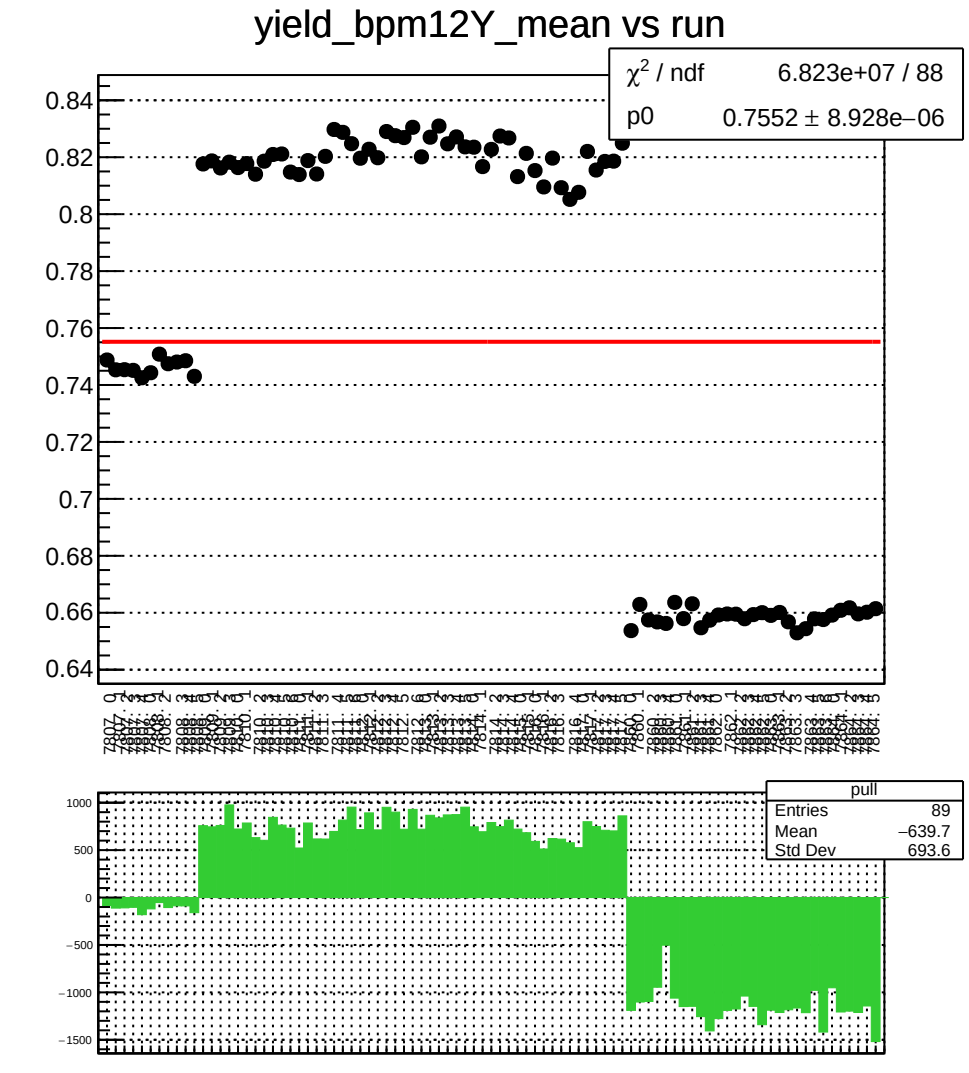

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

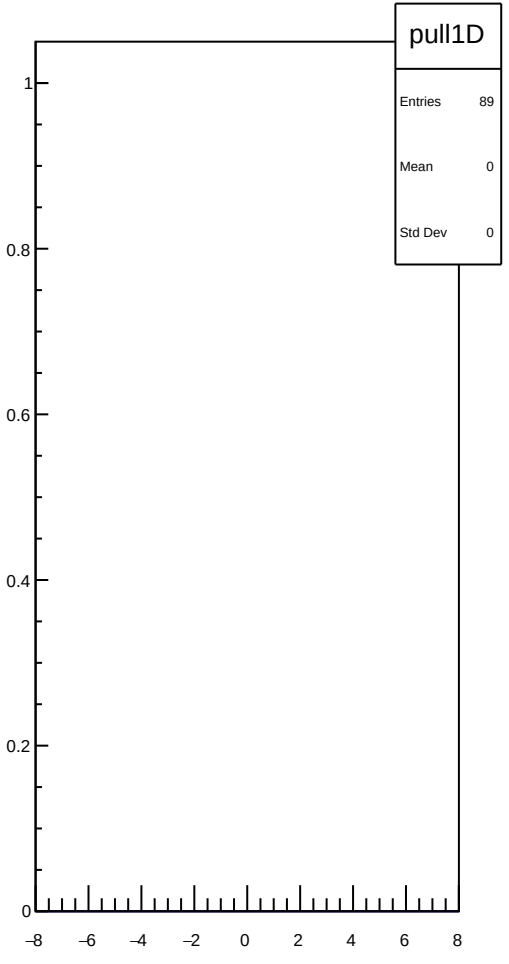

yield_bpm11Y_rms vs run
χ² / ndf 3.448e+04 / 88
p0 0.01159 ± 8.945e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008


yield_bpm12X_mean vs run
χ² / ndf 1.099e+07 / 88
p0 −0.3565 ± 7.434e−05
pull
Entries 89
Mean 208.1
Std Dev 127.2

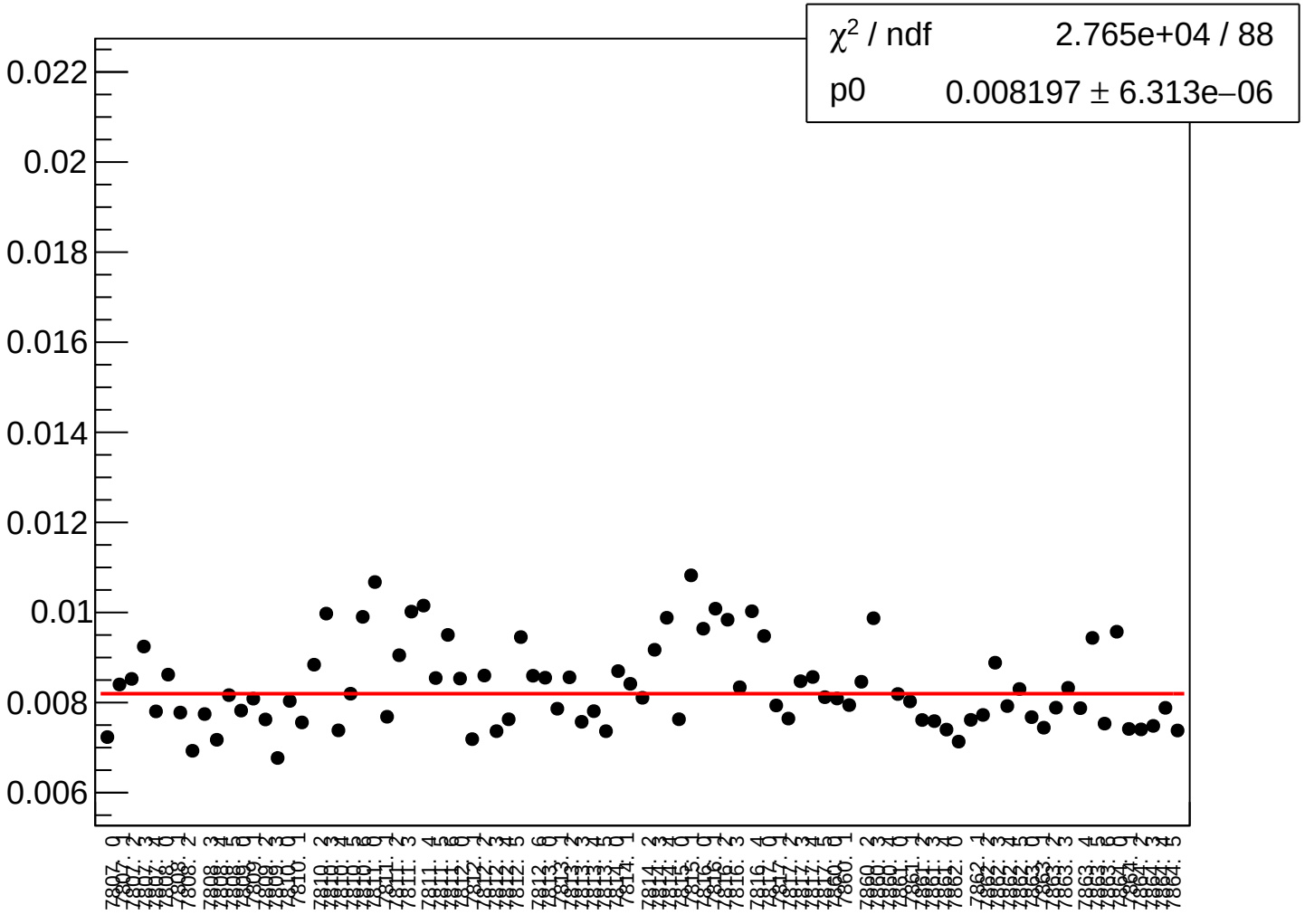

pull1D
Entries 89
Mean 0
Std Dev 0

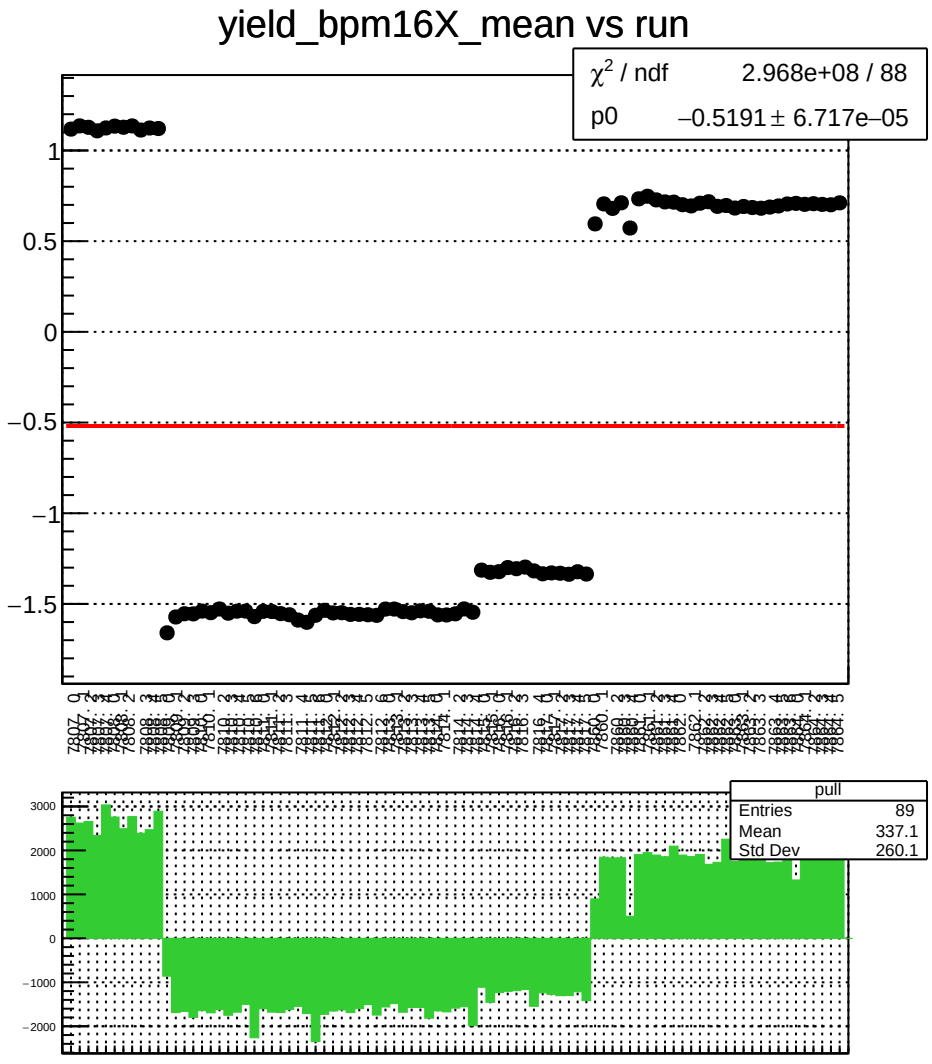

yield_bpm12X_rms vs run
χ² / ndf 4.224e+04 / 88
p0 0.06795 ± 5.257e–05
0.16
0.14
0.12
0.1
0.08
0.06

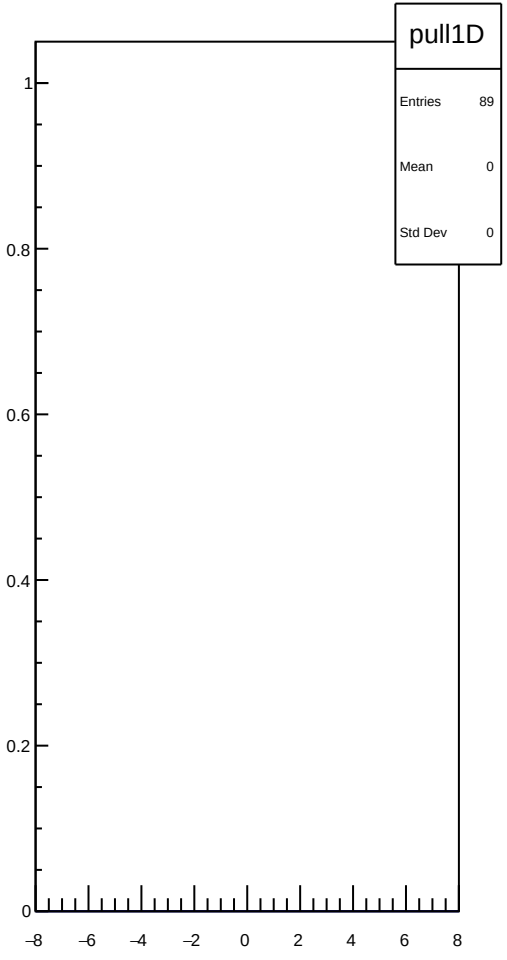

yield_bpm12Y_mean vs run
χ² / ndf 6.823e+07 / 88
p0 0.7552 ± 8.928e−06
0.84
0.82
0.8
0.78
0.76
0.74
0.72
0.7
0.68
0.66
0.64
pull
Entries 89
Mean −639.7
Std Dev 693.6
1000
500
0
−500
−1000
−1500


pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

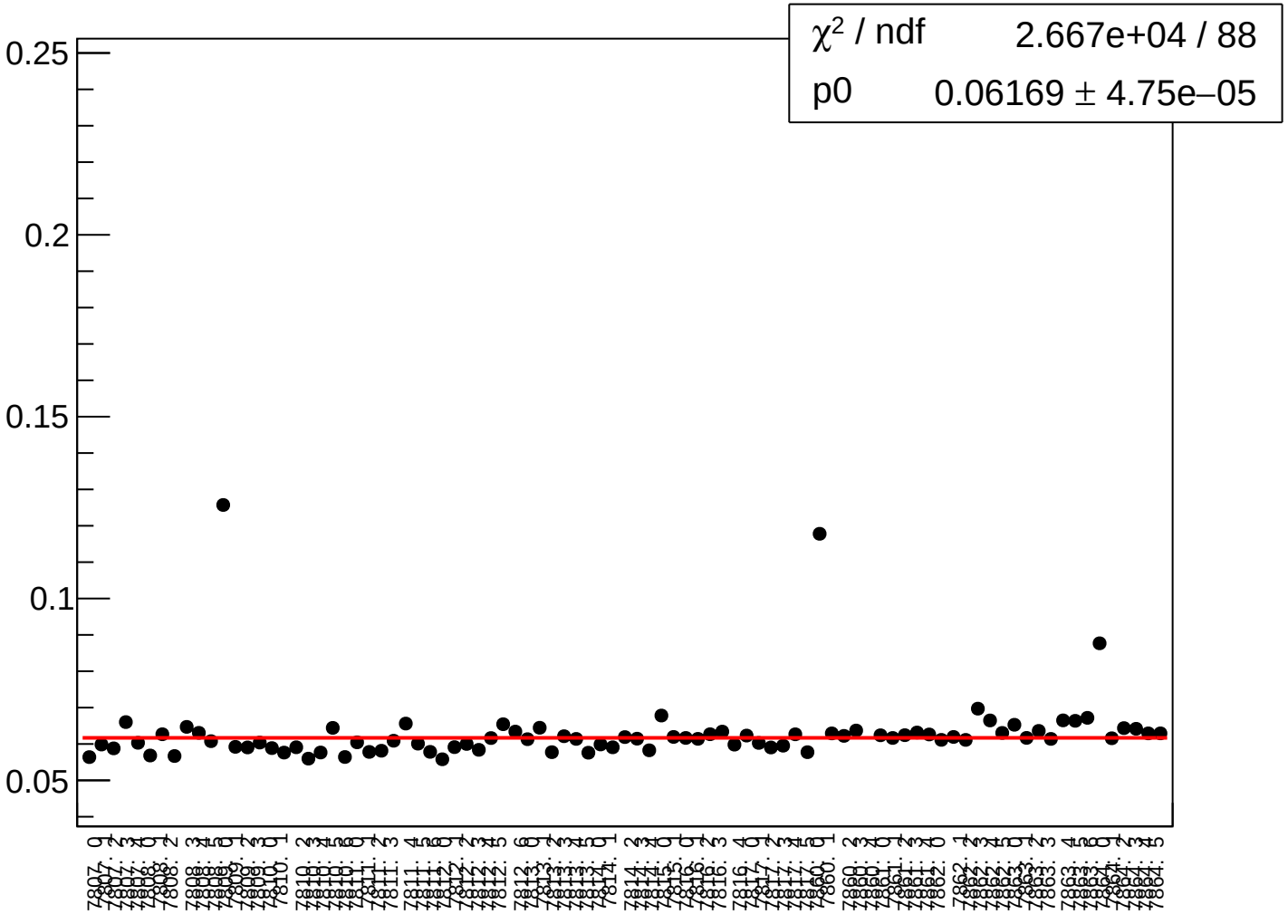
yield_bpm12Y_rms vs run

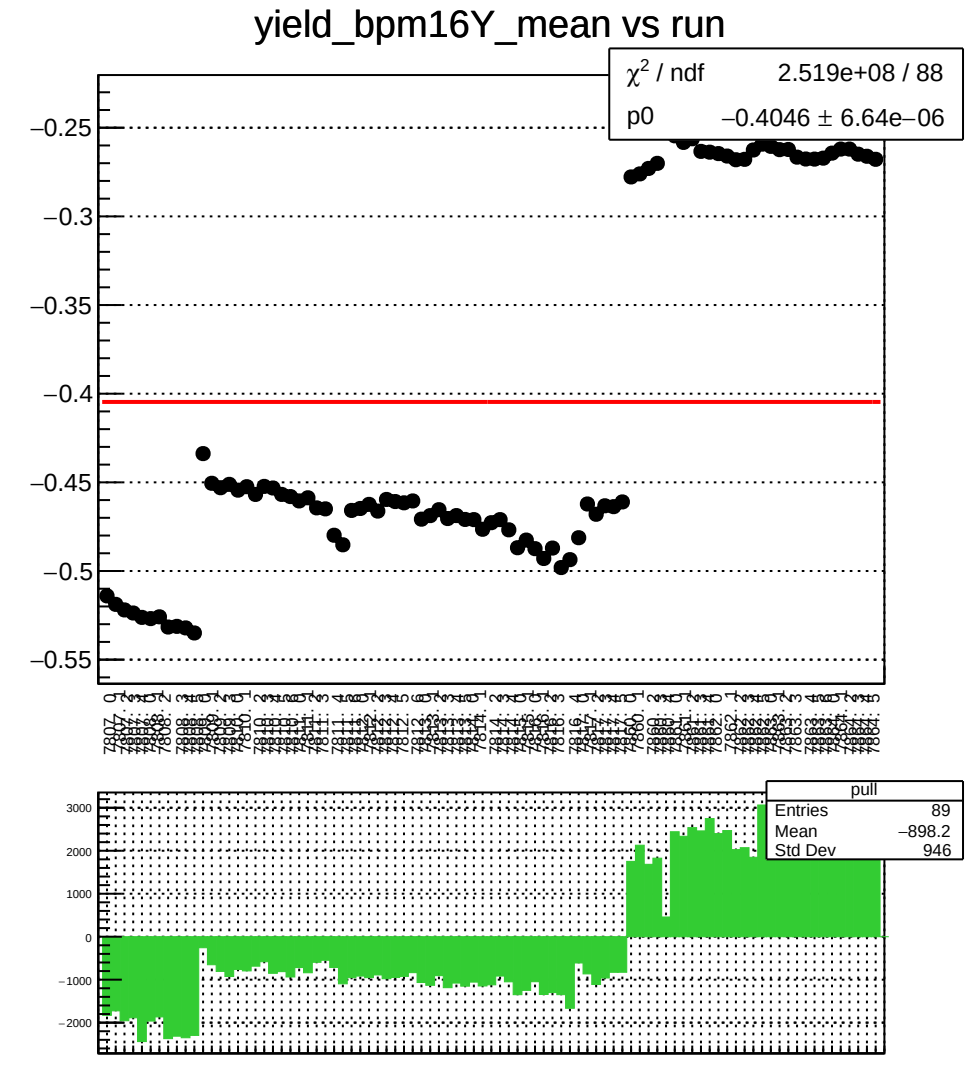


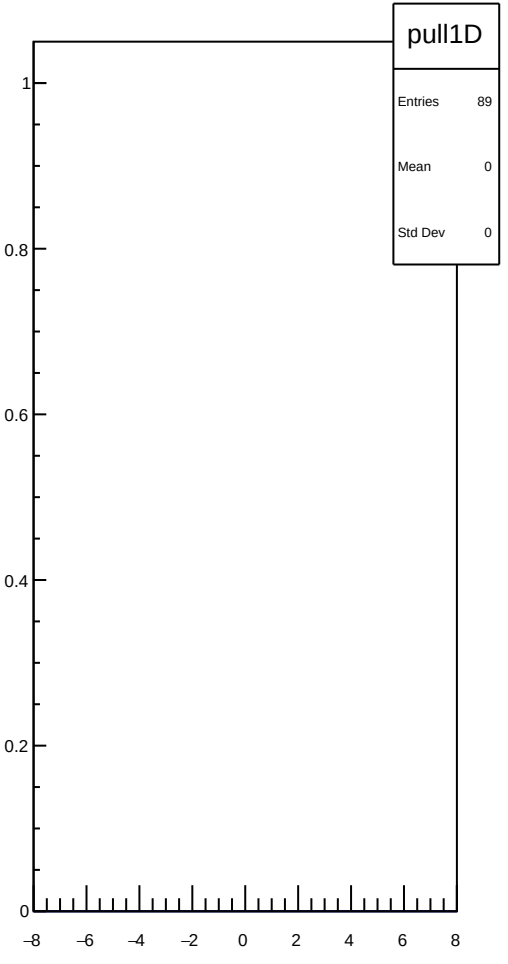

yield_bpm16X_mean vs run
χ² / ndf 2.968e+08 / 88
p0 −0.5191 ± 6.717e−05
pull
Entries 89
Mean 337.1
Std Dev 260.1

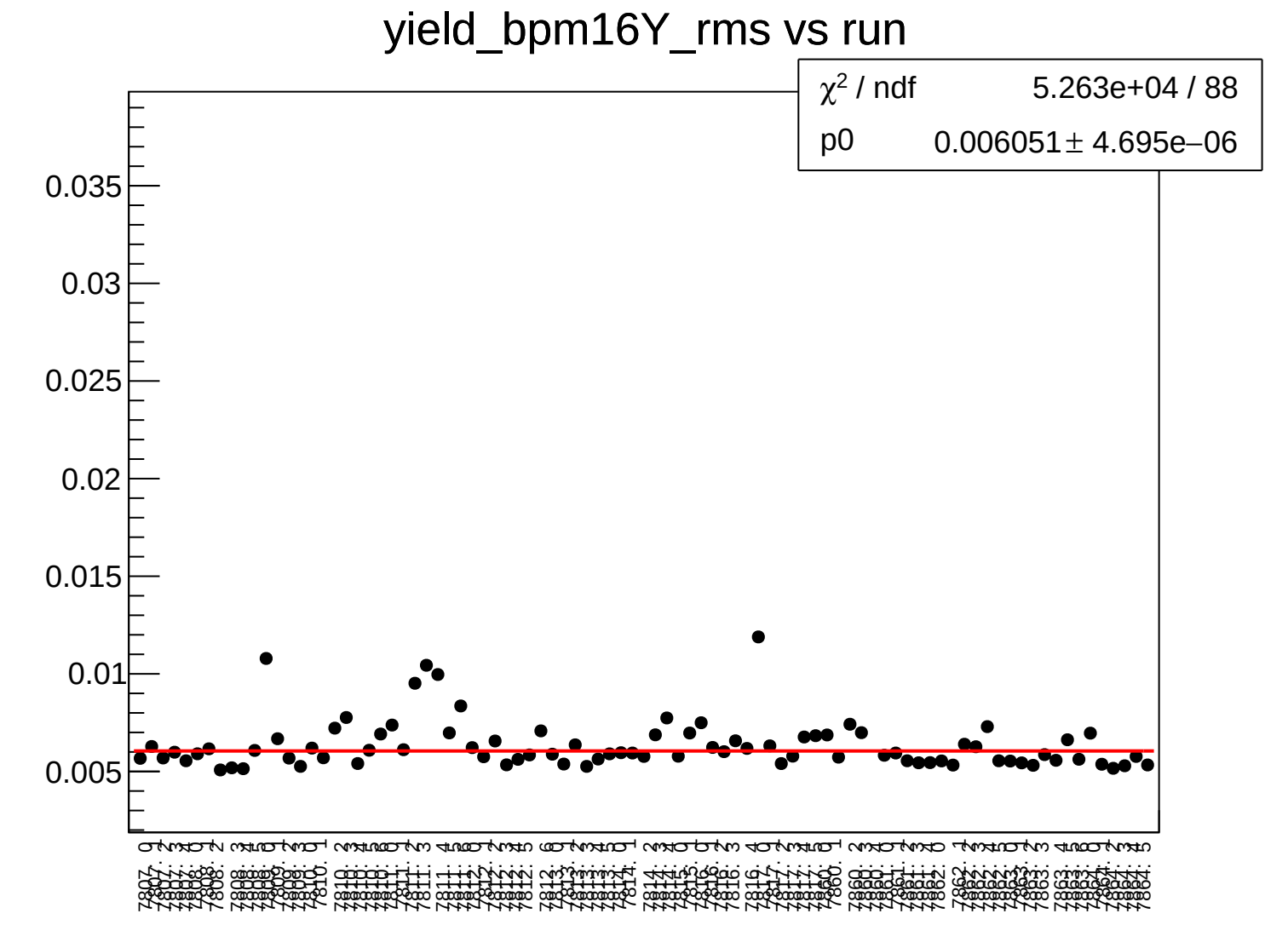

pull1D
Entries 89
Mean 0
Std Dev 0

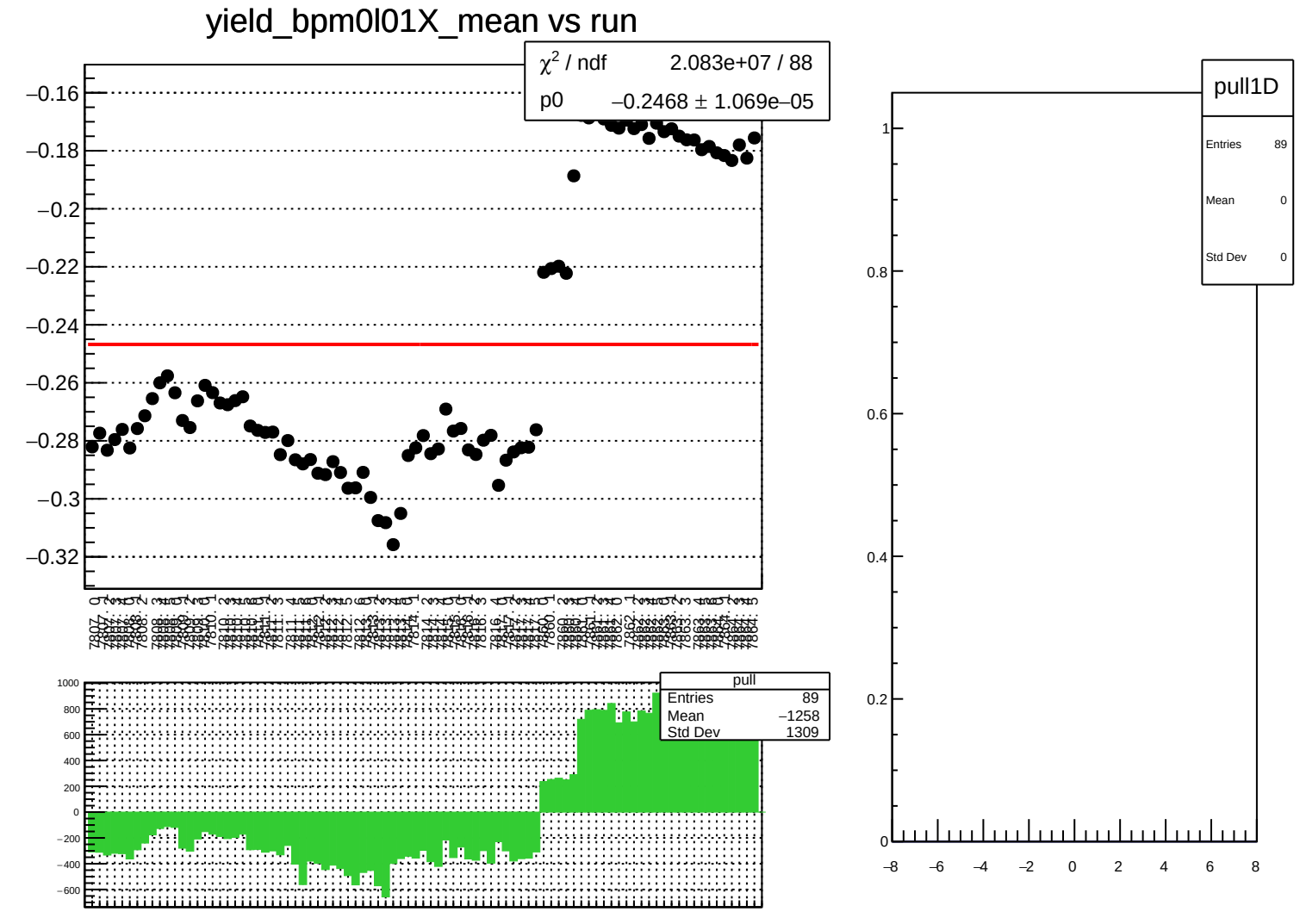
yield_bpm16X_rms vs run

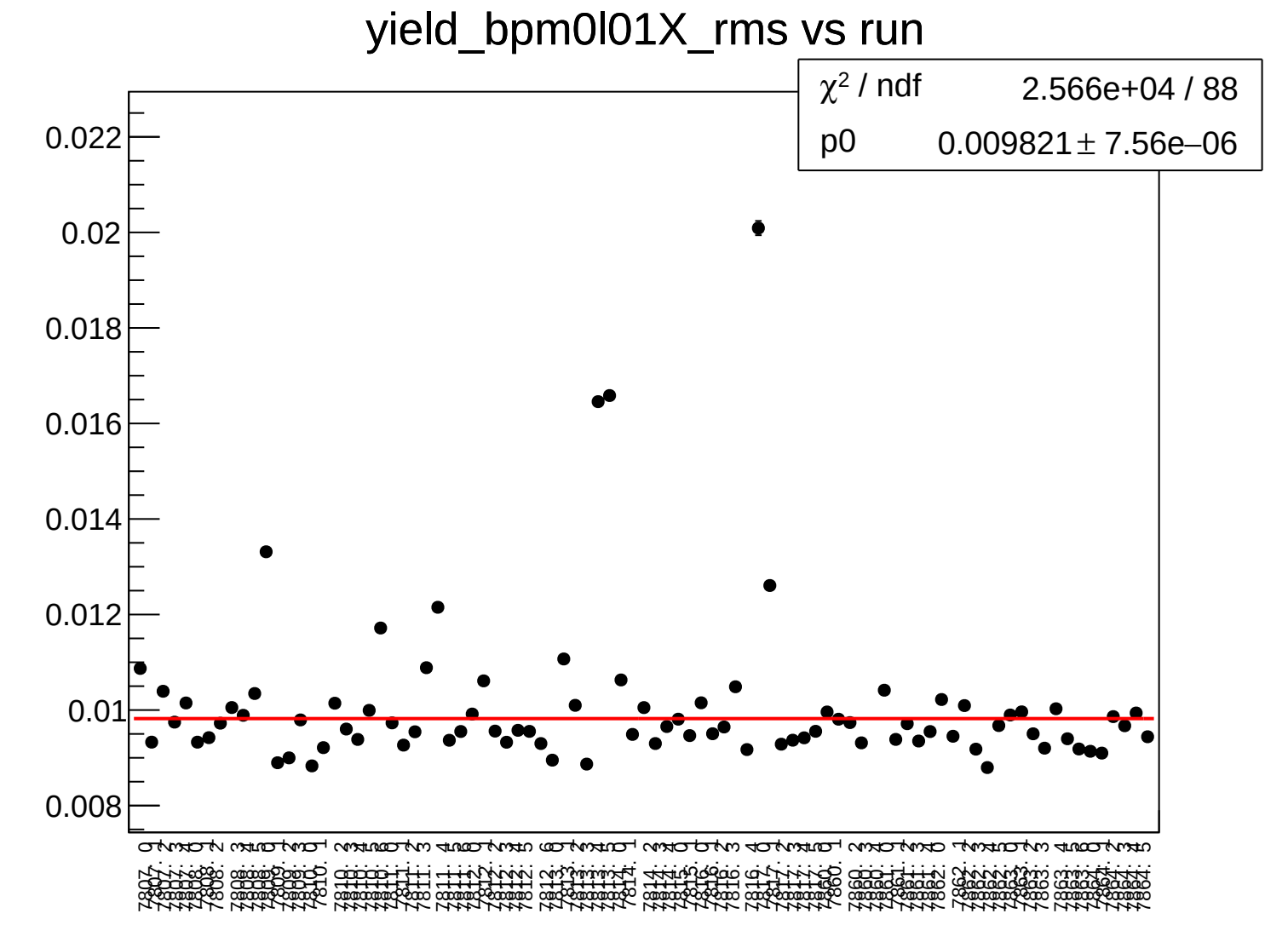


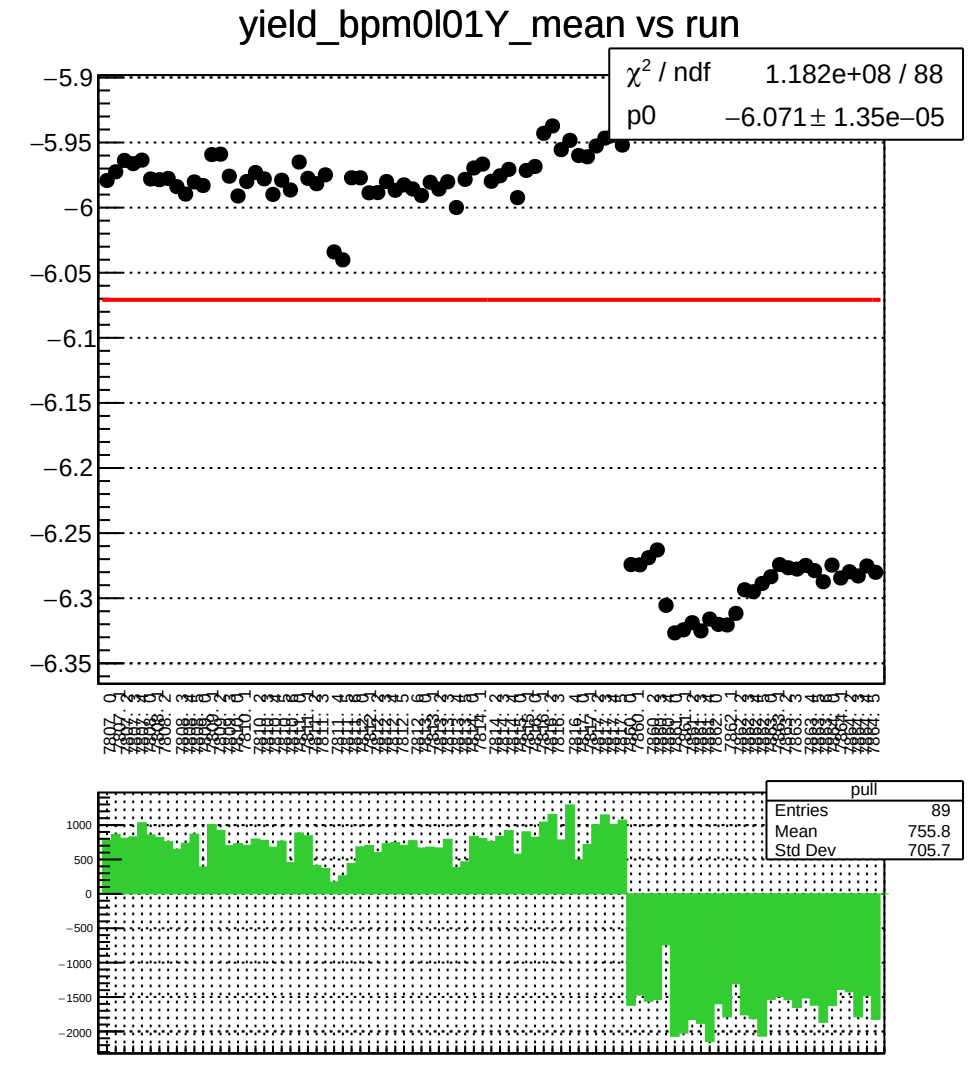

yield_bpm16Y_mean vs run
χ² / ndf 2.519e+08 / 88
p0 −0.4046 ± 6.64e−06
−0.25
−0.3
−0.35
−0.4
−0.45
−0.5
−0.55
pull
Entries 89
Mean −898.2
Std Dev 946
3000
2000
1000
0
−1000
−2000

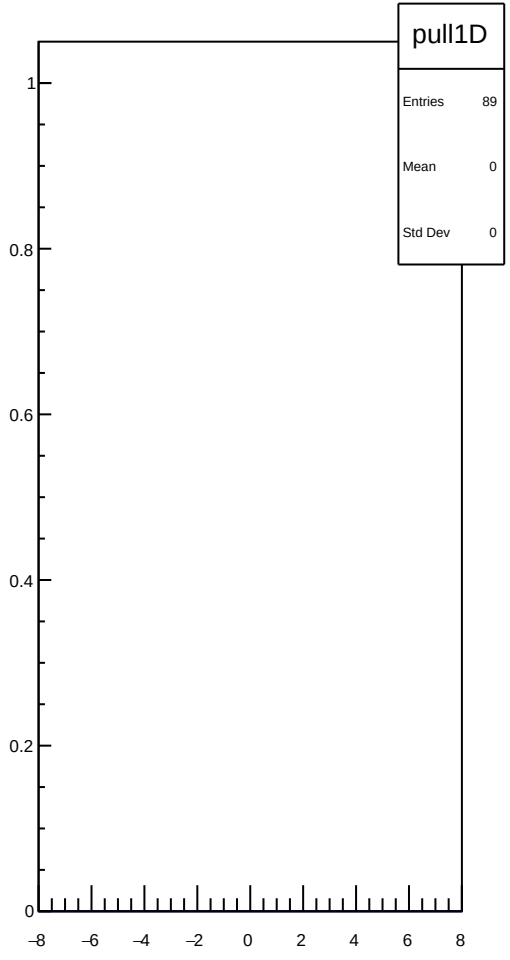

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

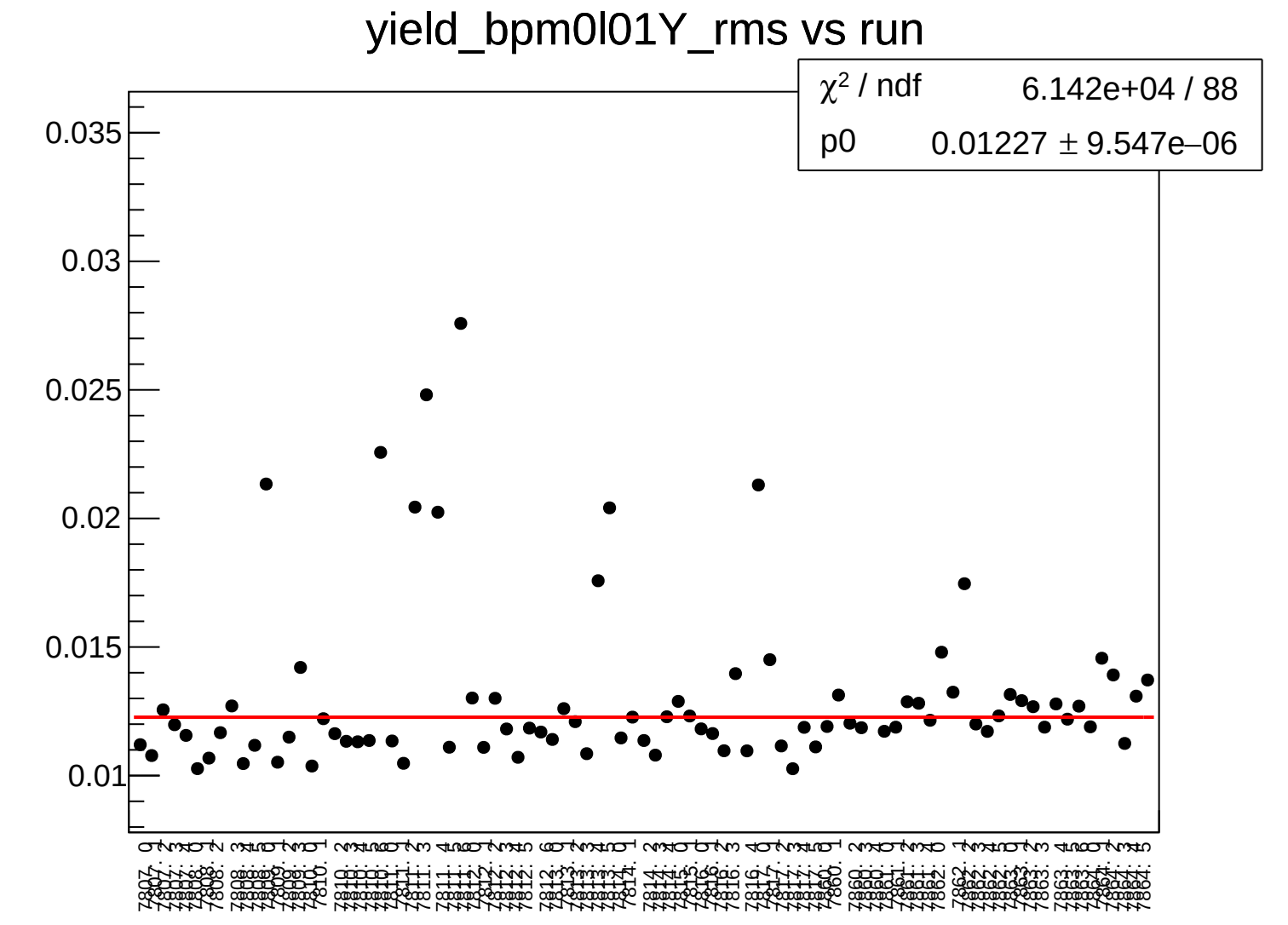

yield_bpm16Y_rms vs run
χ² / ndf 5.263e+04 / 88
p0 0.006051 ± 4.695e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

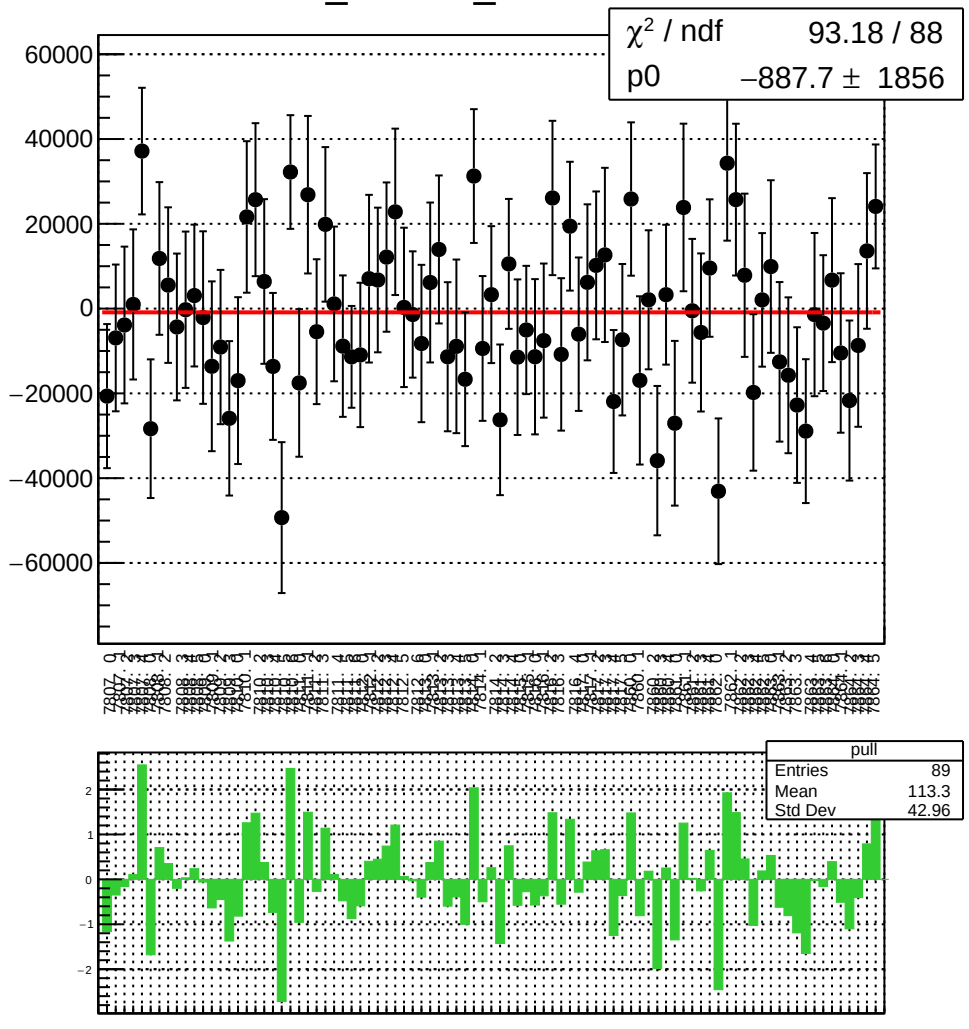

yield_bpm0l01X_mean vs run
χ² / ndf 2.083e+07 / 88
p0 −0.2468 ± 1.069e−05
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
pull
Entries 89
Mean −1258
Std Dev 1309
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

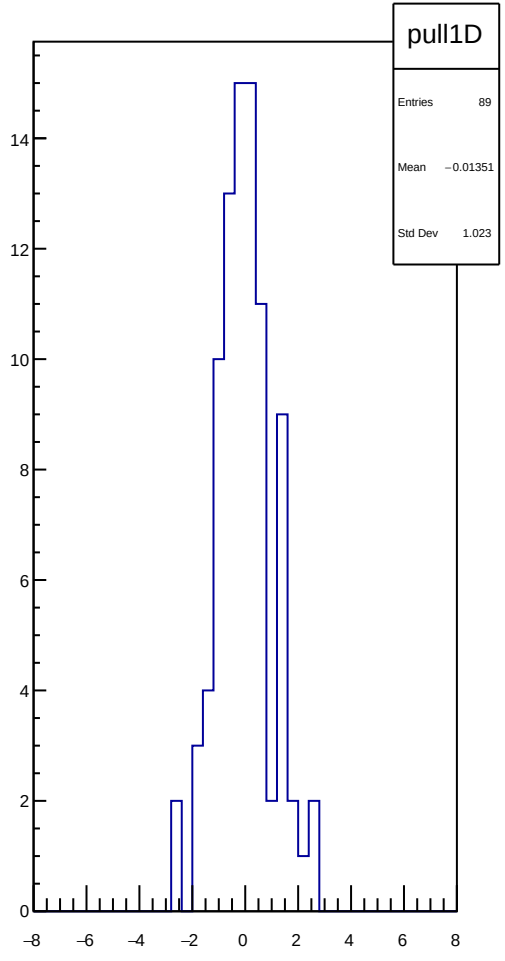

yield_bpm0l01X_rms vs run
χ² / ndf 2.566e+04 / 88
p0 0.009821 ± 7.56e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

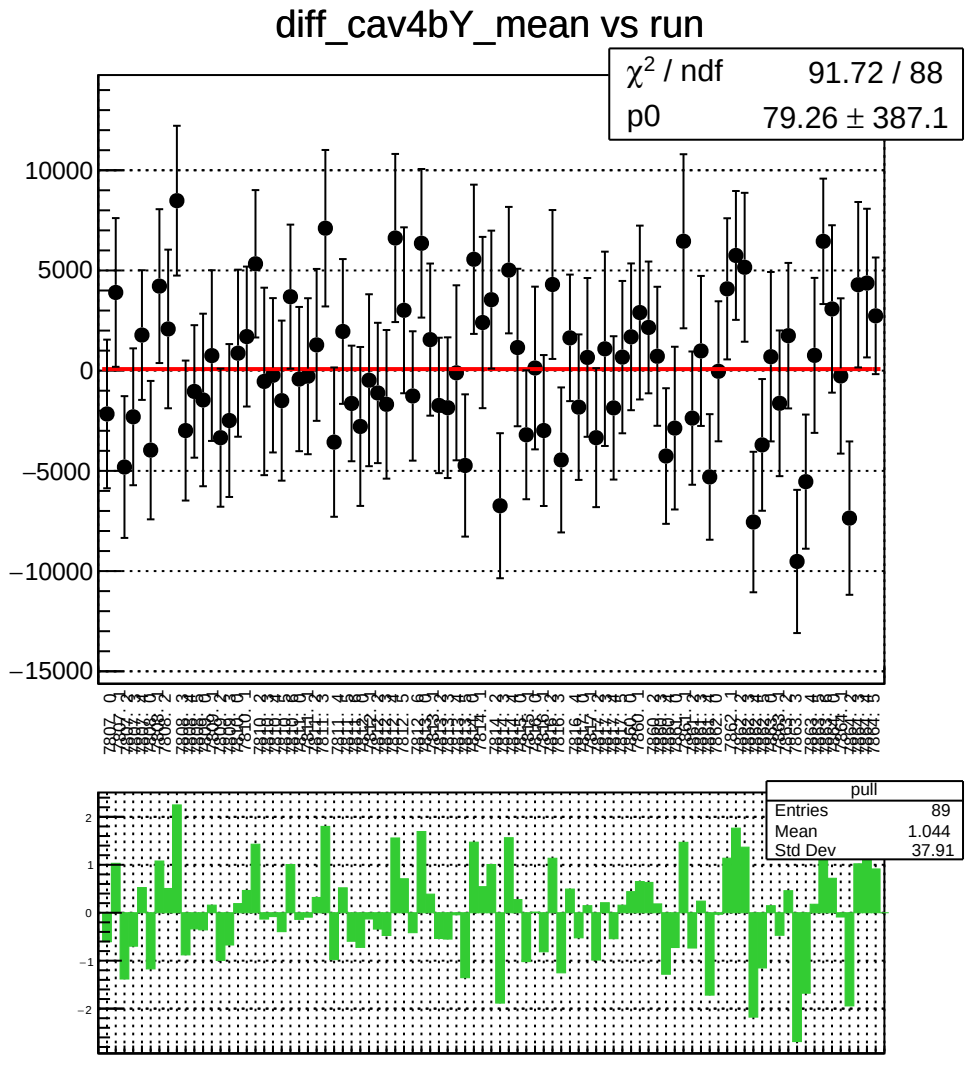

yield_bpm0l01Y_mean vs run
χ² / ndf 1.182e+08 / 88
p0 −6.071 ± 1.35e−05
pull
Entries 89
Mean 755.8
Std Dev 705.7

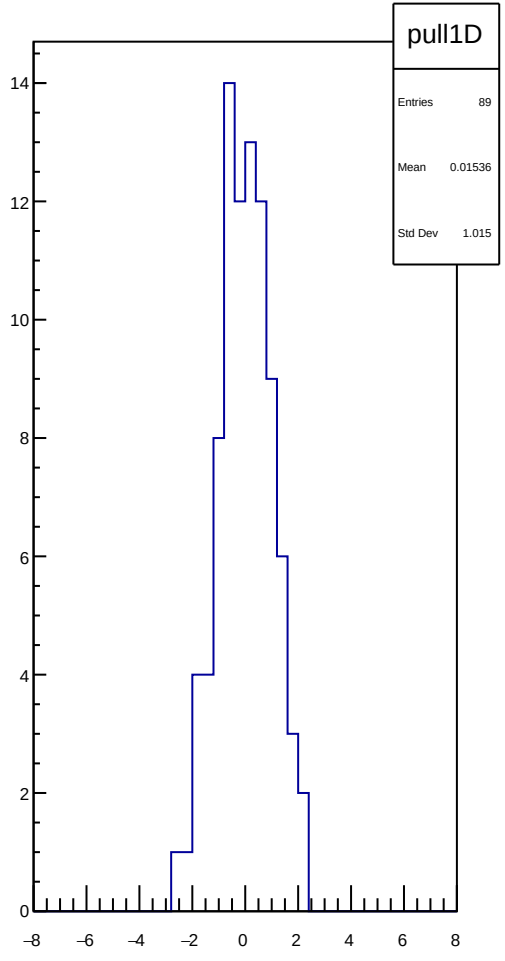

pull1D
Entries 89
Mean 0
Std Dev 0

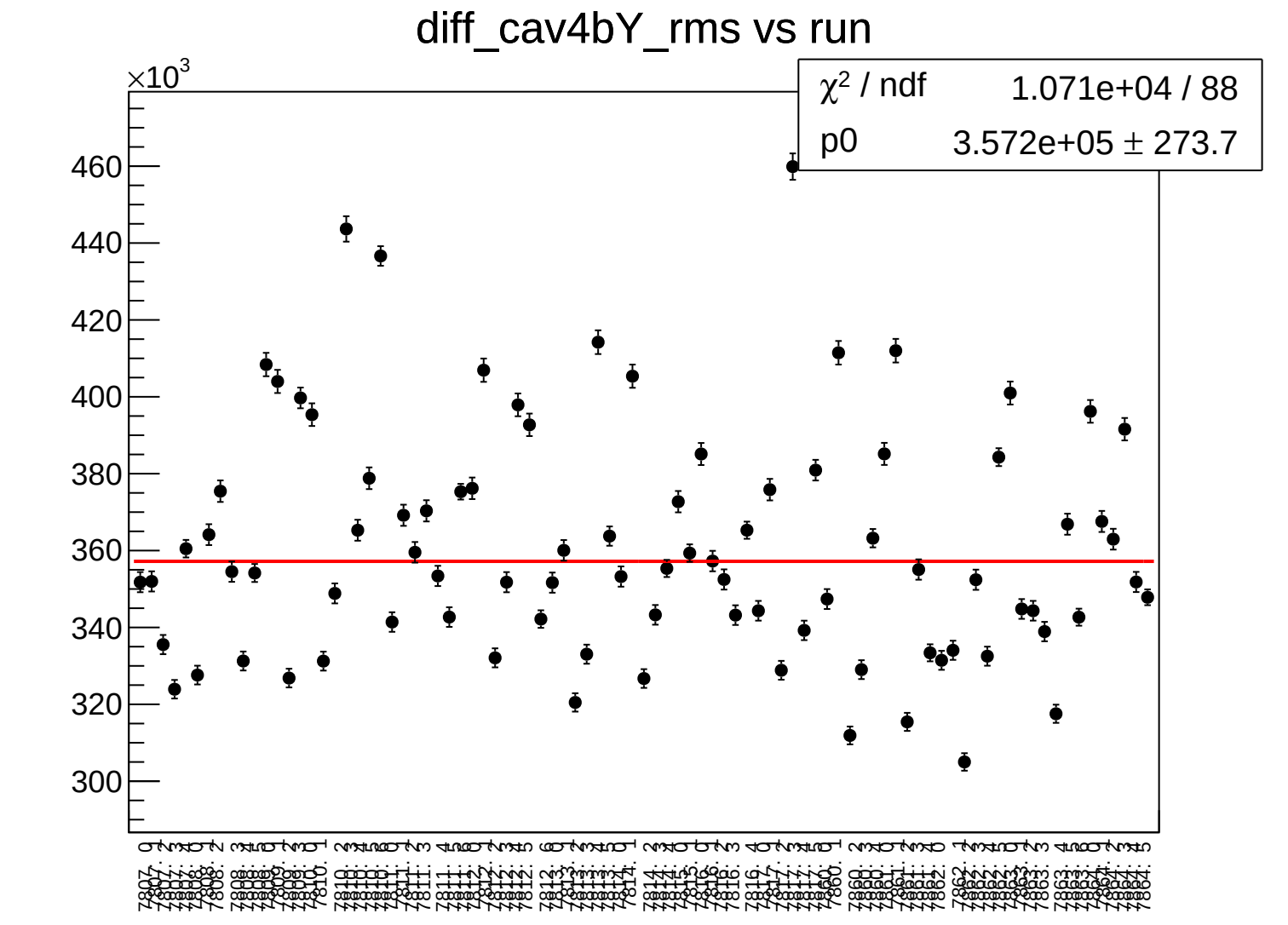

yield_bpm0l01Y_rms vs run
χ² / ndf 6.142e+04 / 88
p0 0.01227 ± 9.547e–06
0.035
0.03
0.025
0.02
0.015
0.01

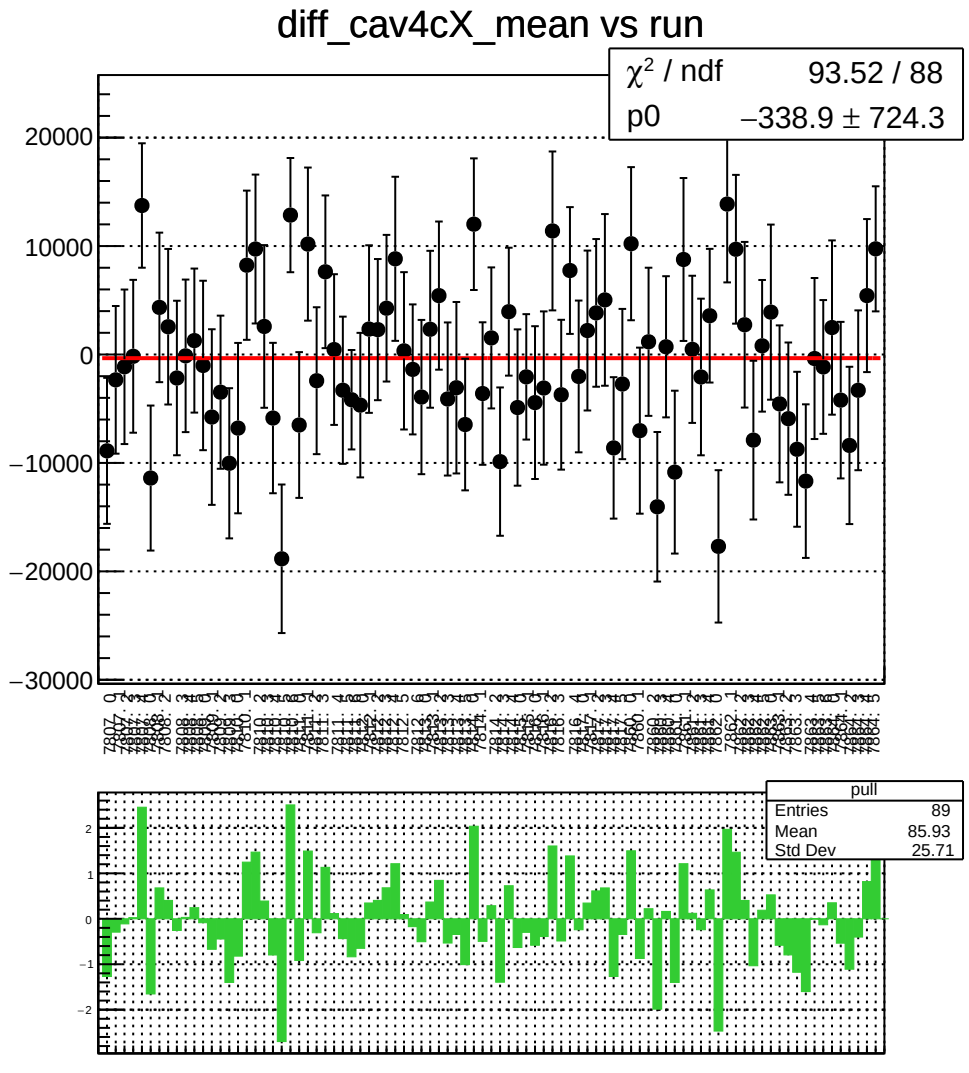

diff_cav4bX_mean vs run
χ² / ndf 93.18 / 88
p0 −887.7 ± 1856
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 113.3
Std Dev 42.96
2
1
0
−1
−2

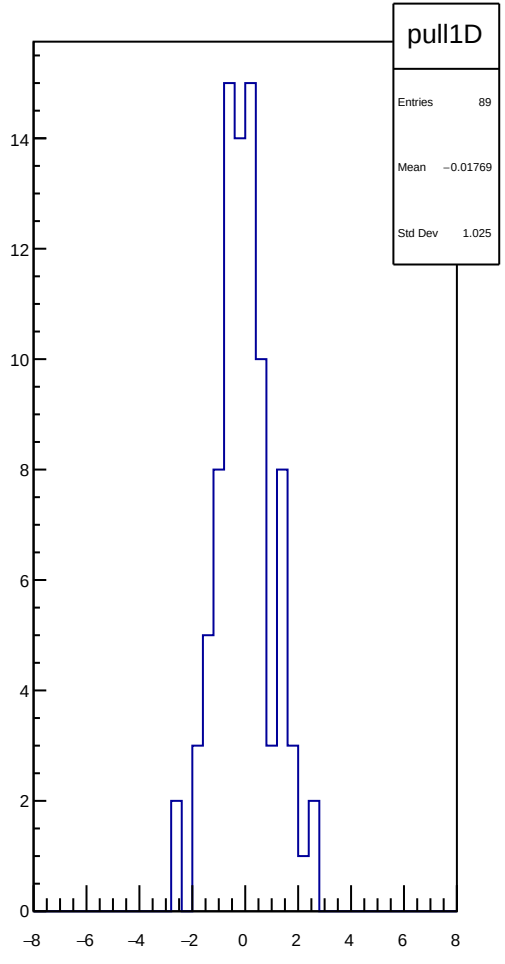

pull1D
Entries 89
Mean −0.01351
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

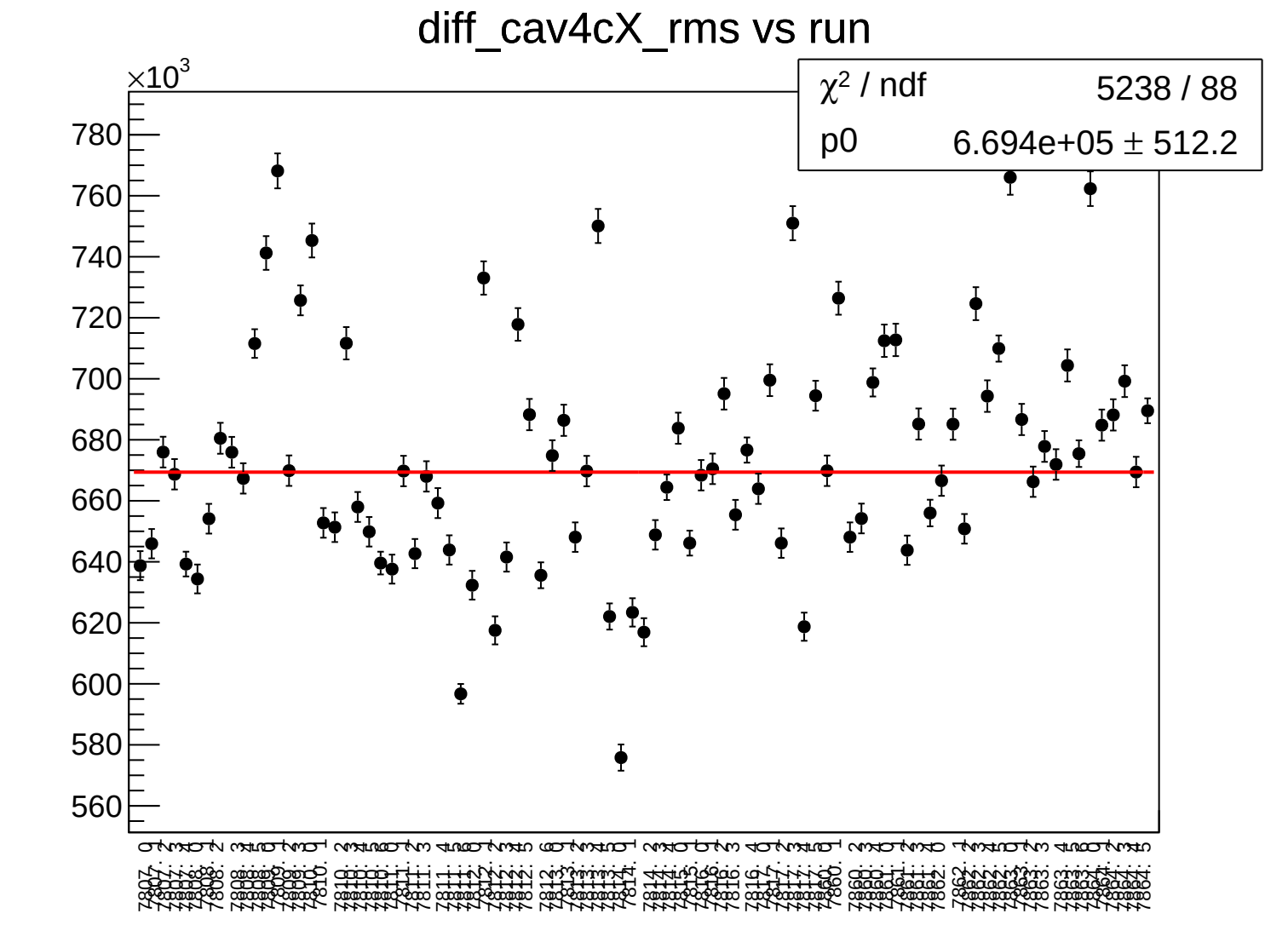

diff_cav4bY_mean vs run
χ^2 / ndf 91.72 / 88
p0 79.26 ± 387.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 1.044
Std Dev 37.91
2
1
0
−1
−2

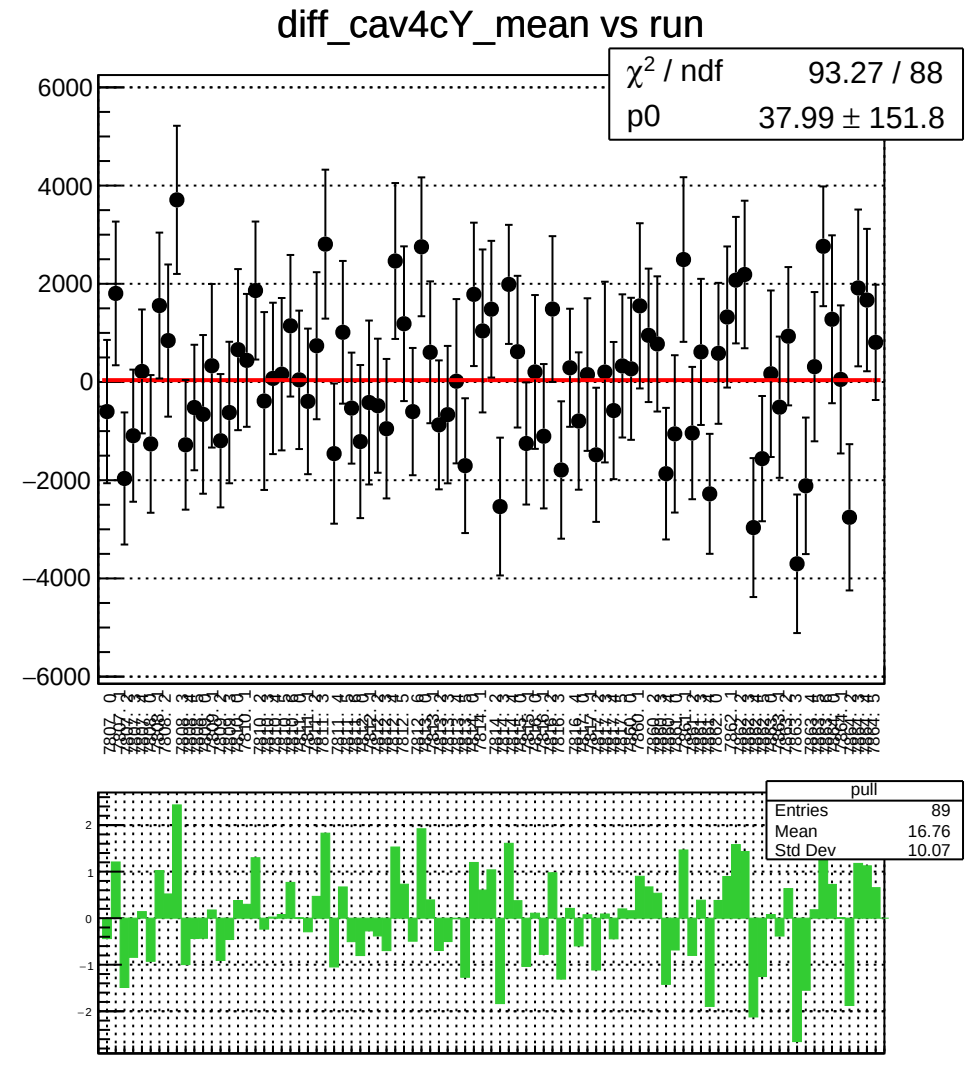

pull1D
Entries 89
Mean 0.01536
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

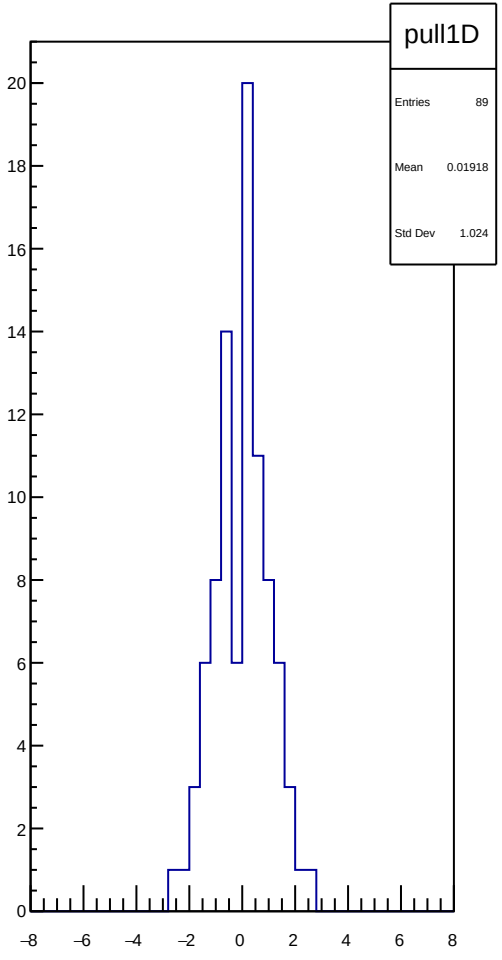

diff_cav4bY_rms vs run
×10^3
χ² / ndf 1.071e+04 / 88
p0 3.572e+05 ± 273.7
460
440
420
400
380
360
340
320
300

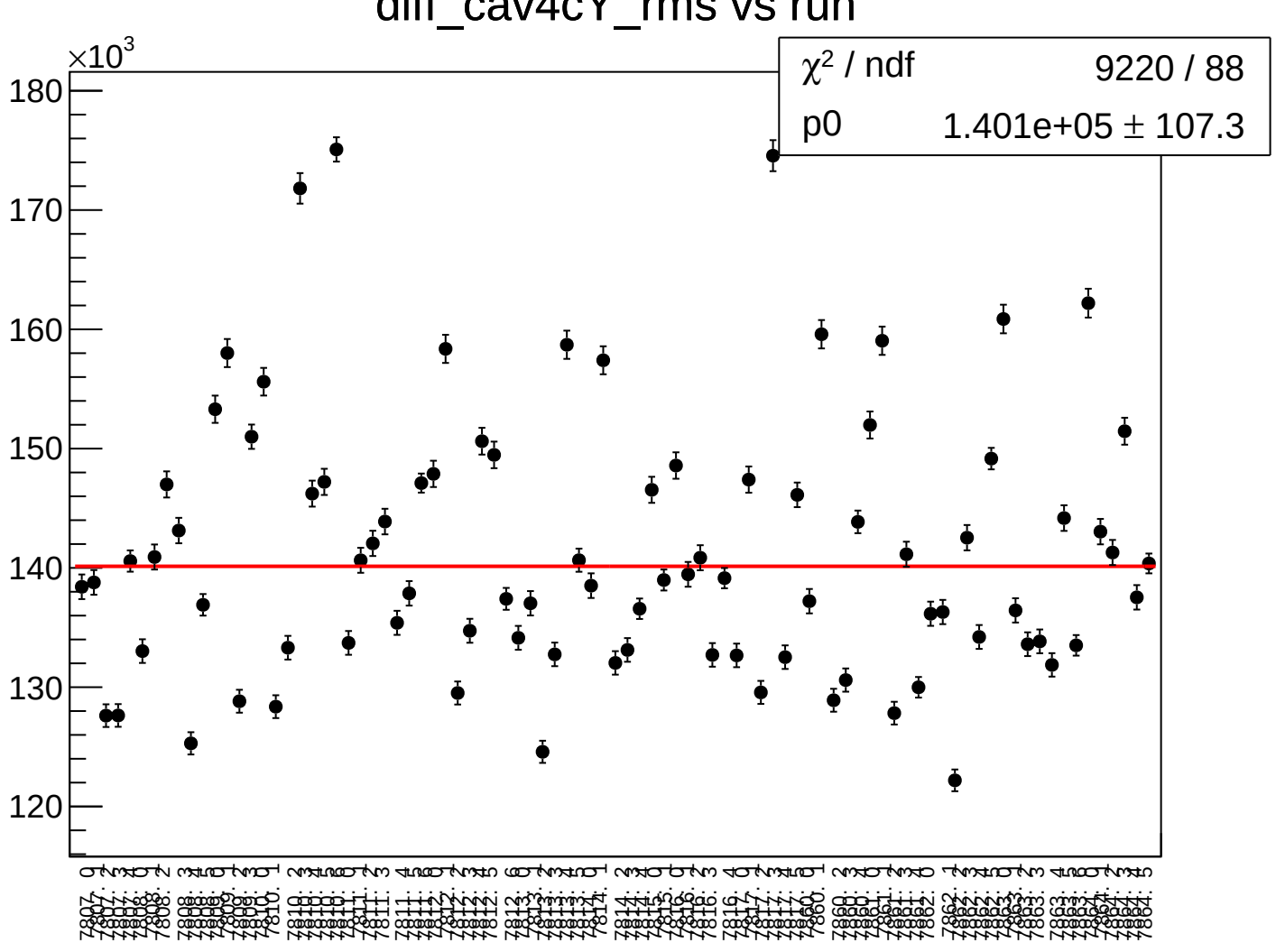

diff_cav4cX_mean vs run
χ^2 / ndf 93.52 / 88
p0 −338.9 ± 724.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 85.93
Std Dev 25.71
2
1
0
−1
−2

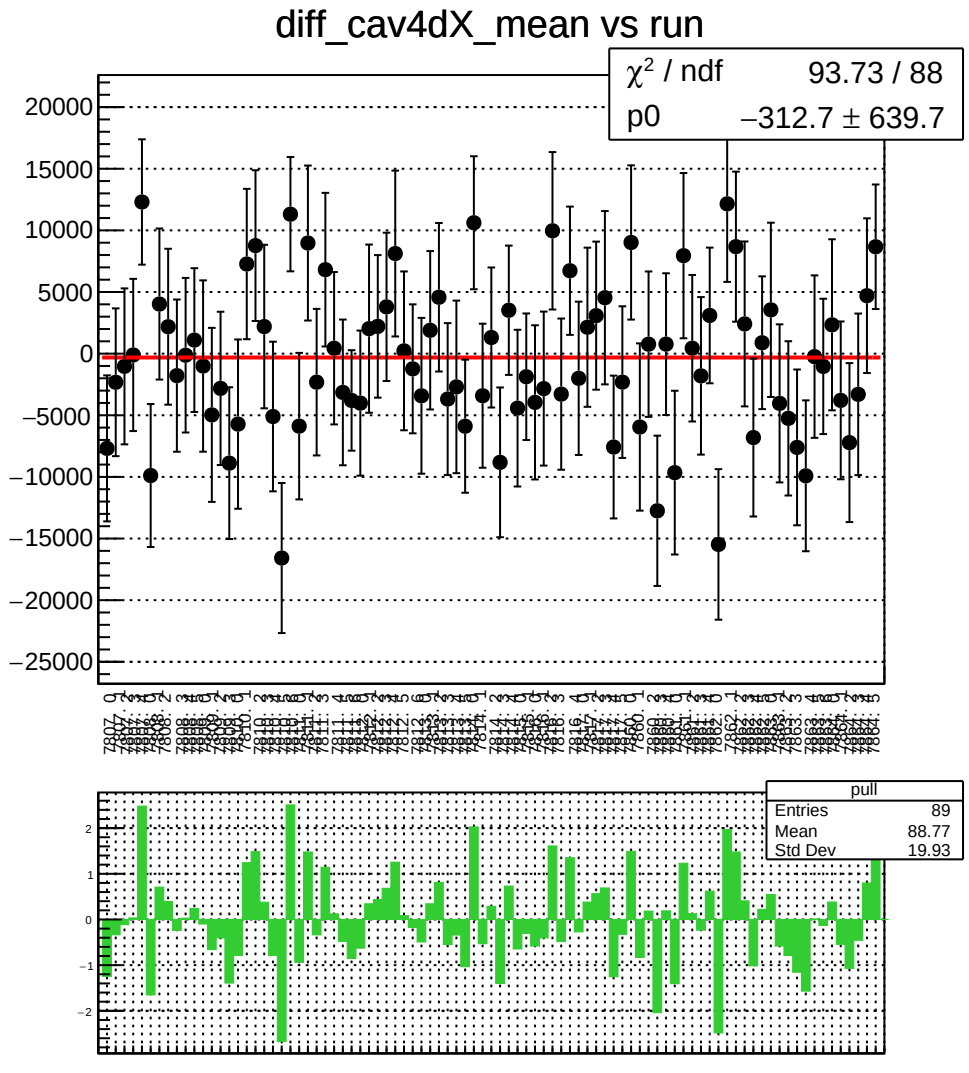

pull1D
Entries 89
Mean −0.01769
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

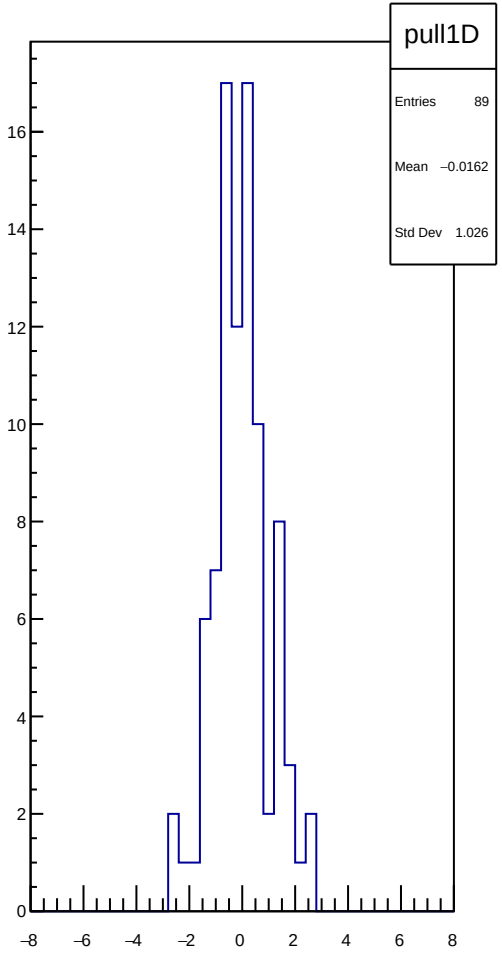

diff_cav4cX_rms vs run
×10^3
780
760
740
720
700
680
660
640
620
600
580
560
χ² / ndf 5238 / 88
p0 6.694e+05 ± 512.2

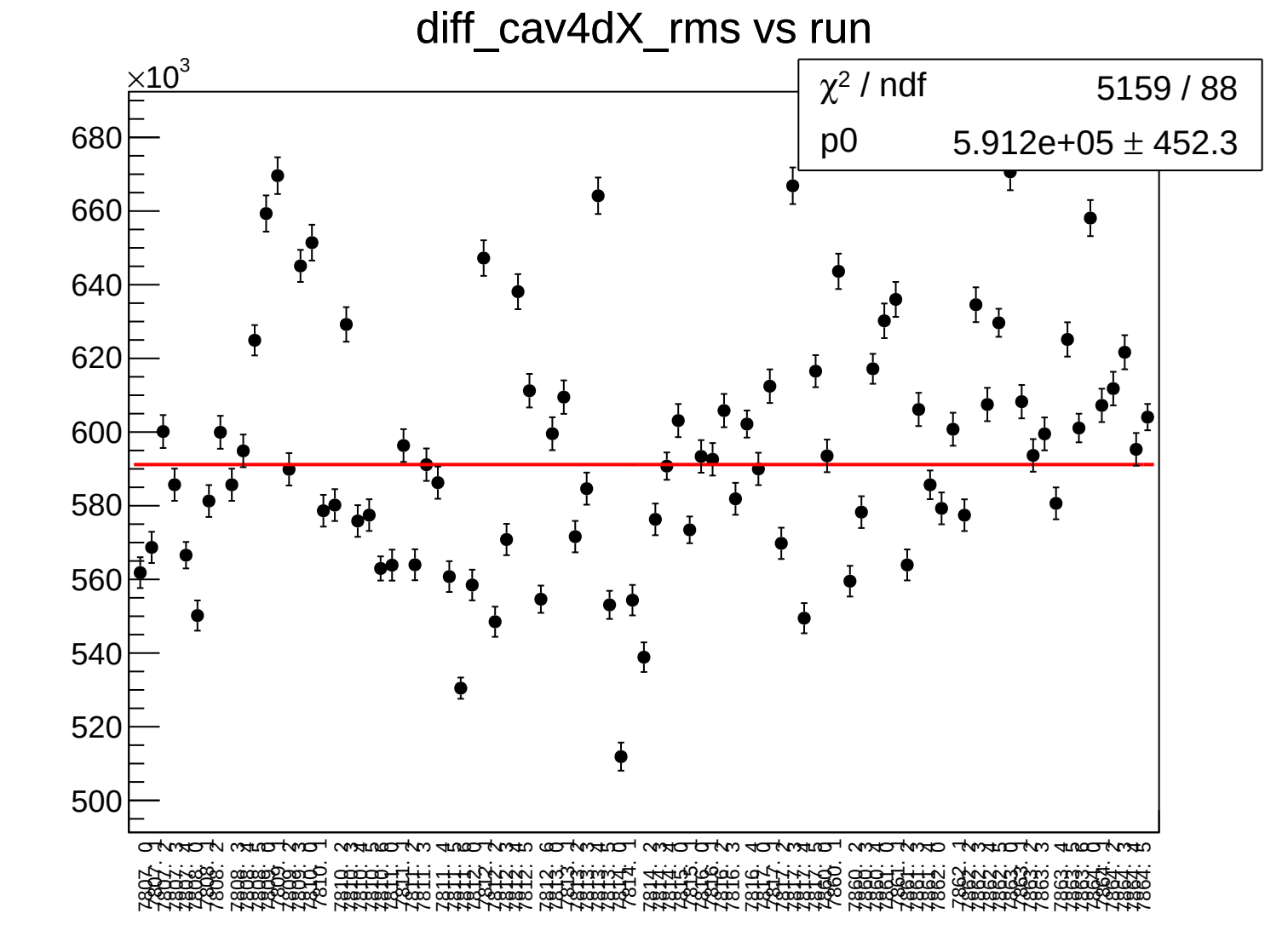

diff_cav4cY_mean vs run
χ^2 / ndf 93.27 / 88
p0 37.99 ± 151.8
pull
Entries 89
Mean 16.76
Std Dev 10.07

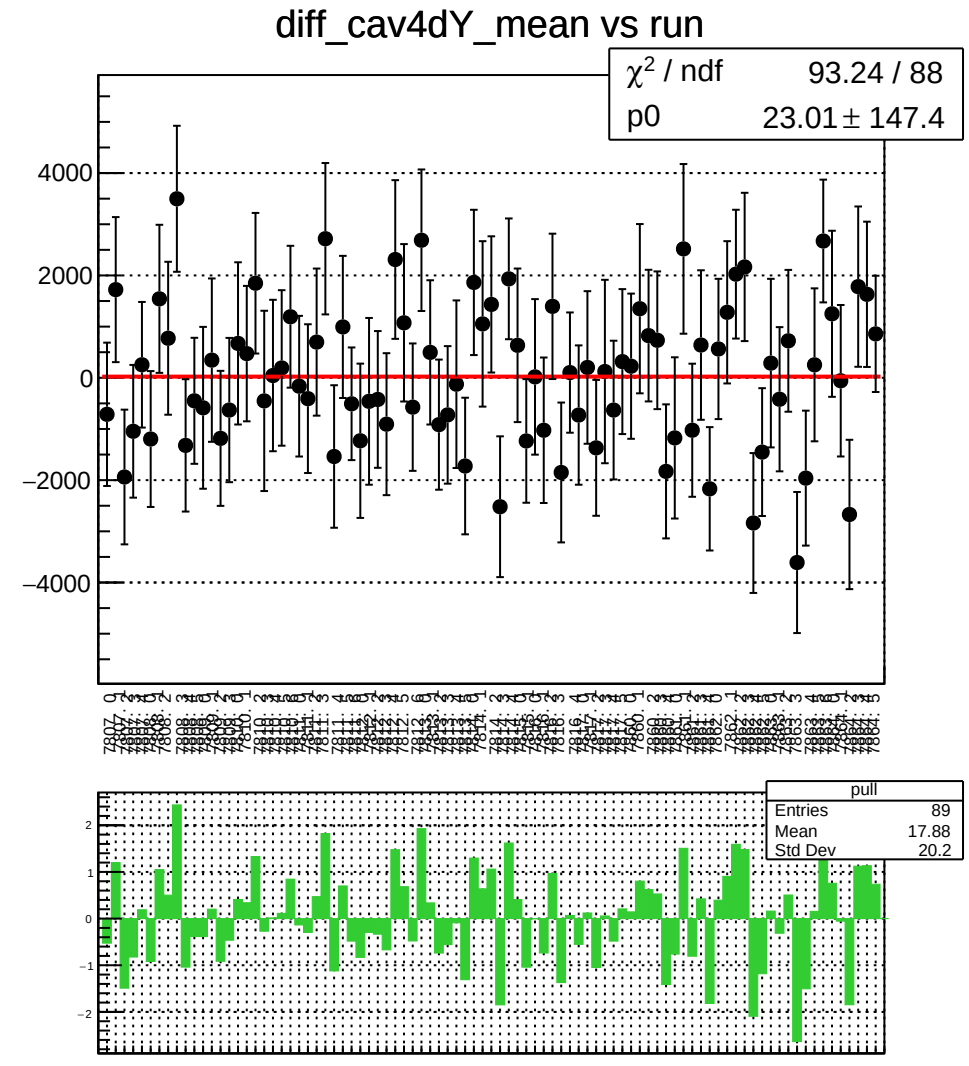

pull1D
Entries 89
Mean 0.01918
Std Dev 1.024

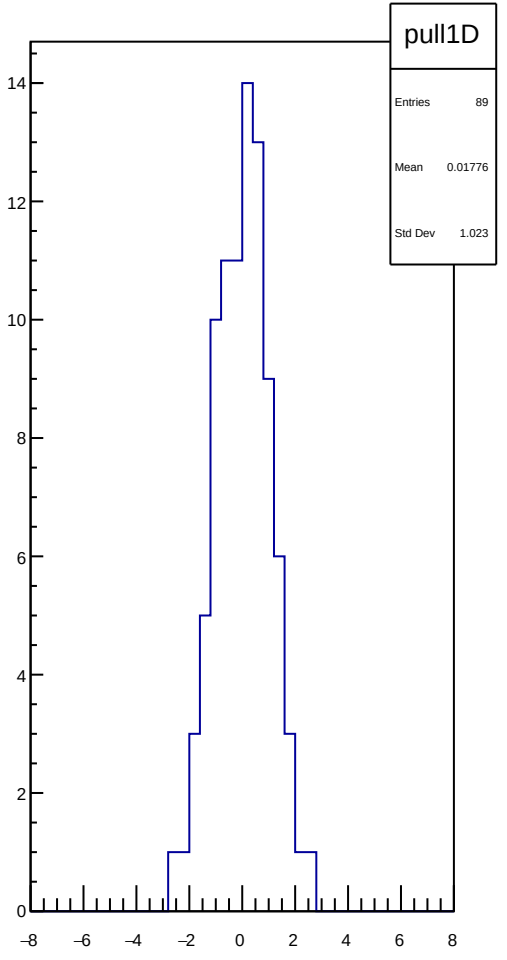

diff_cav4cY_rms vs run
×10^3
180
170
160
150
140
130
120
χ² / ndf 9220 / 88
p0 1.401e+05 ± 107.3

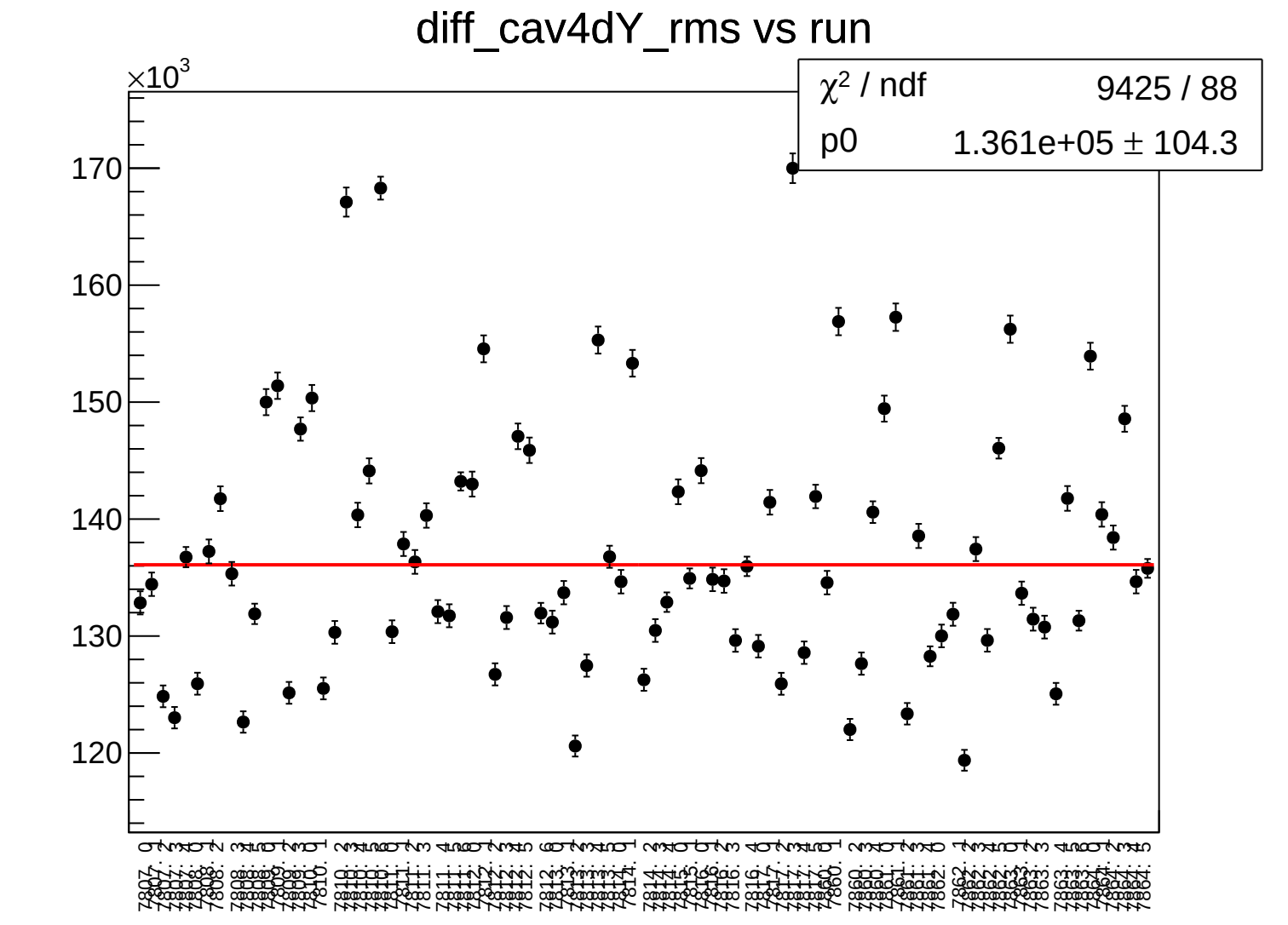

diff_cav4dX_mean vs run
χ² / ndf 93.73 / 88
p0 −312.7 ± 639.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 89
Mean 88.77
Std Dev 19.93
2
1
0
−1
−2

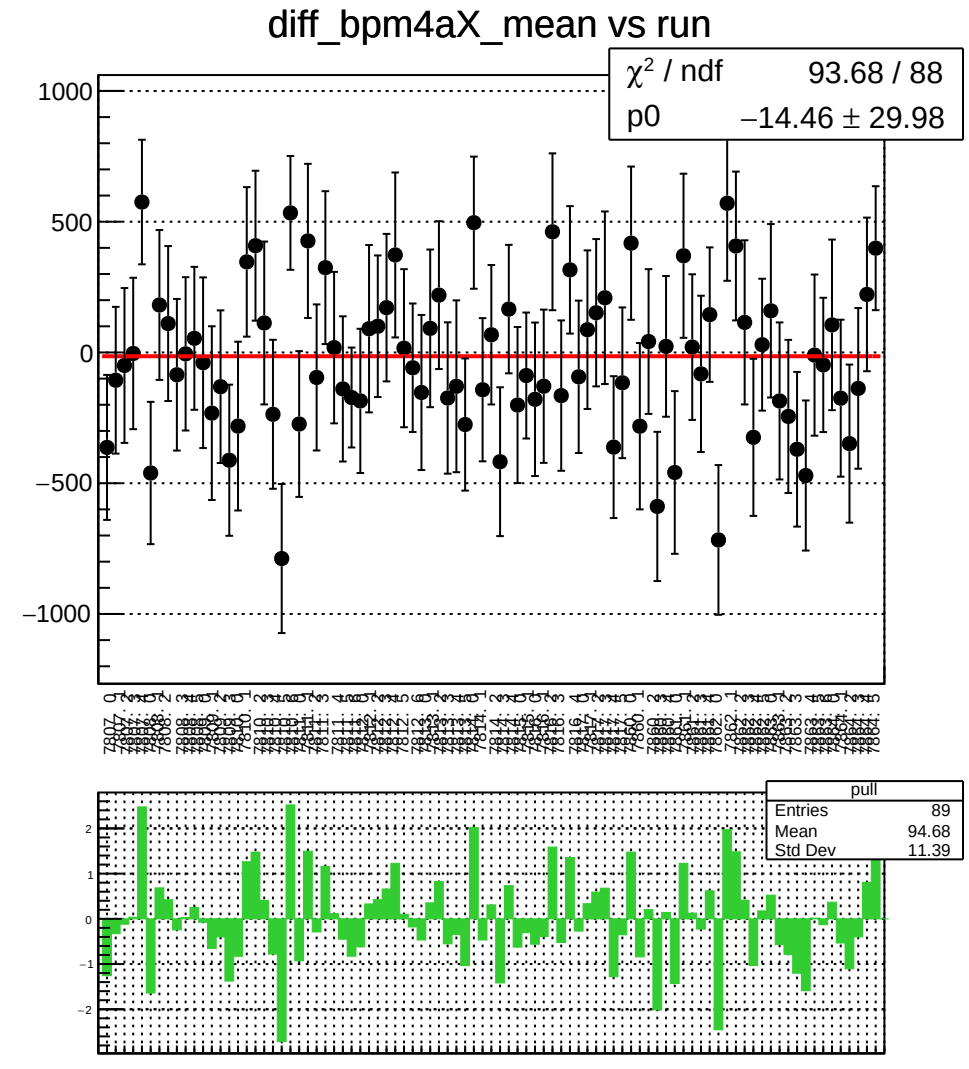

pull1D
Entries 89
Mean −0.0162
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

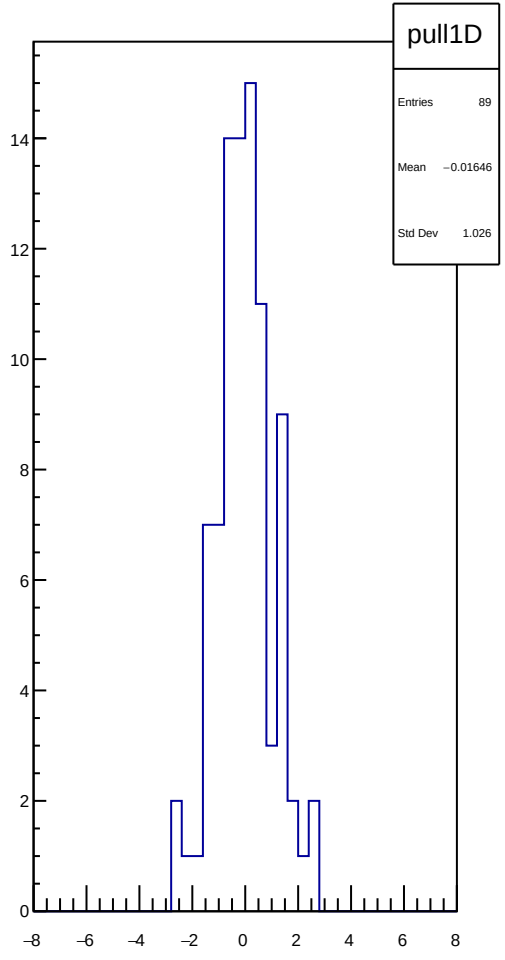

diff_cav4dX_rms vs run
×10^3
680
660
640
620
600
580
560
540
520
500
χ² / ndf 5159 / 88
p0 5.912e+05 ± 452.3

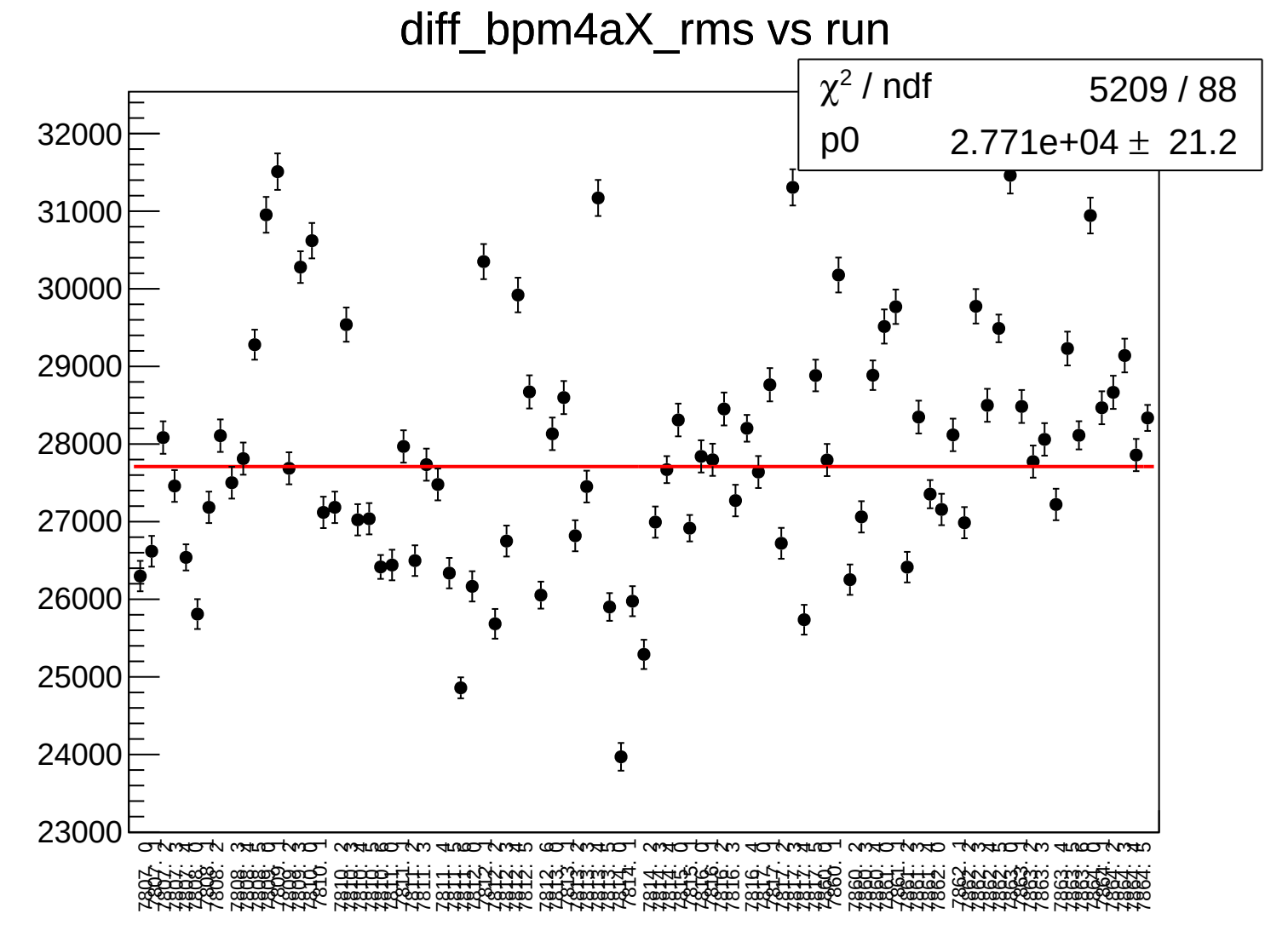

diff_cav4dY_mean vs run
χ² / ndf 93.24 / 88
p0 23.01 ± 147.4
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 17.88
Std Dev 20.2
2
1
0
−1
−2

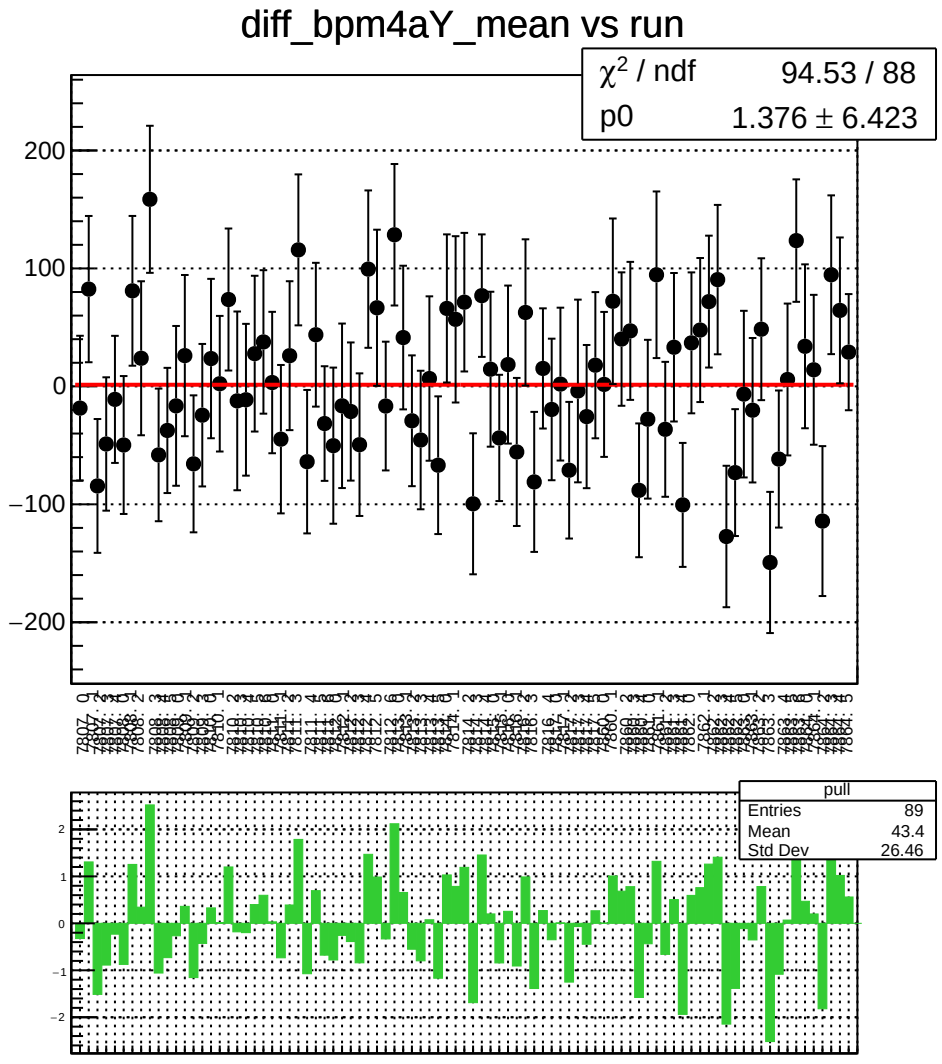

pull1D
Entries 89
Mean 0.01776
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

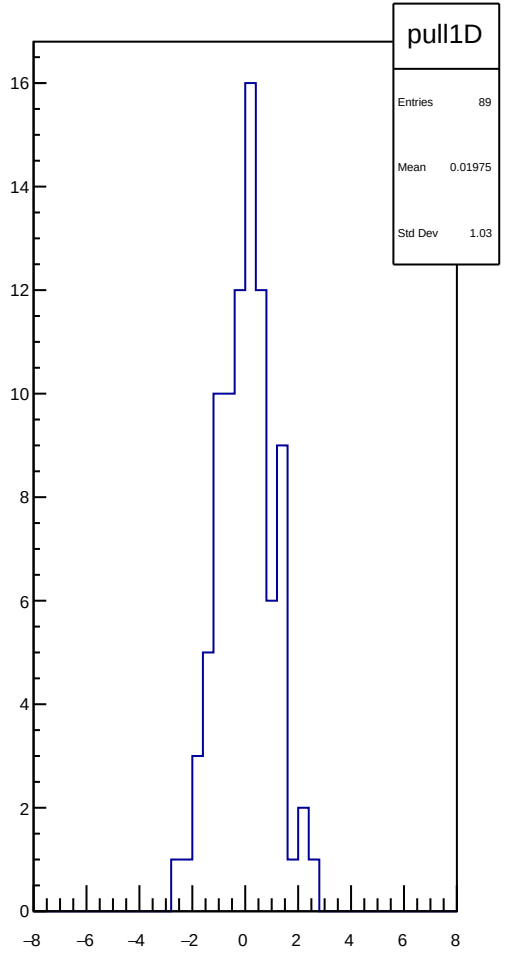

diff_cav4dY_rms vs run
×10^3
χ² / ndf 9425 / 88
p0 1.361e+05 ± 104.3
170
160
150
140
130
120

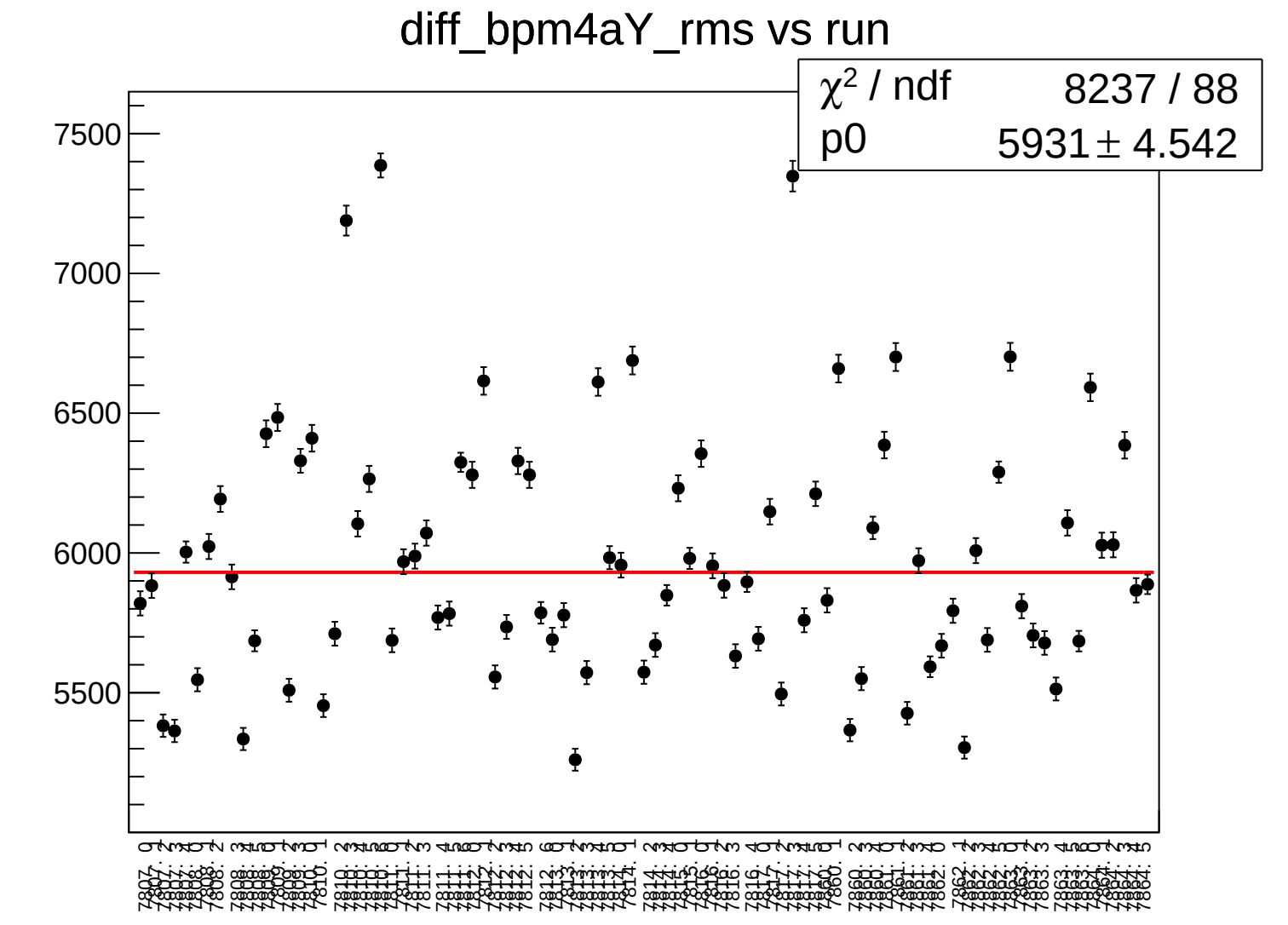

diff_bpm4aX_mean vs run
χ² / ndf 93.68 / 88
p0 −14.46 ± 29.98
1000
500
0
−500
−1000
pull
Entries 89
Mean 94.68
Std Dev 11.39
2
1
0
−1
−2

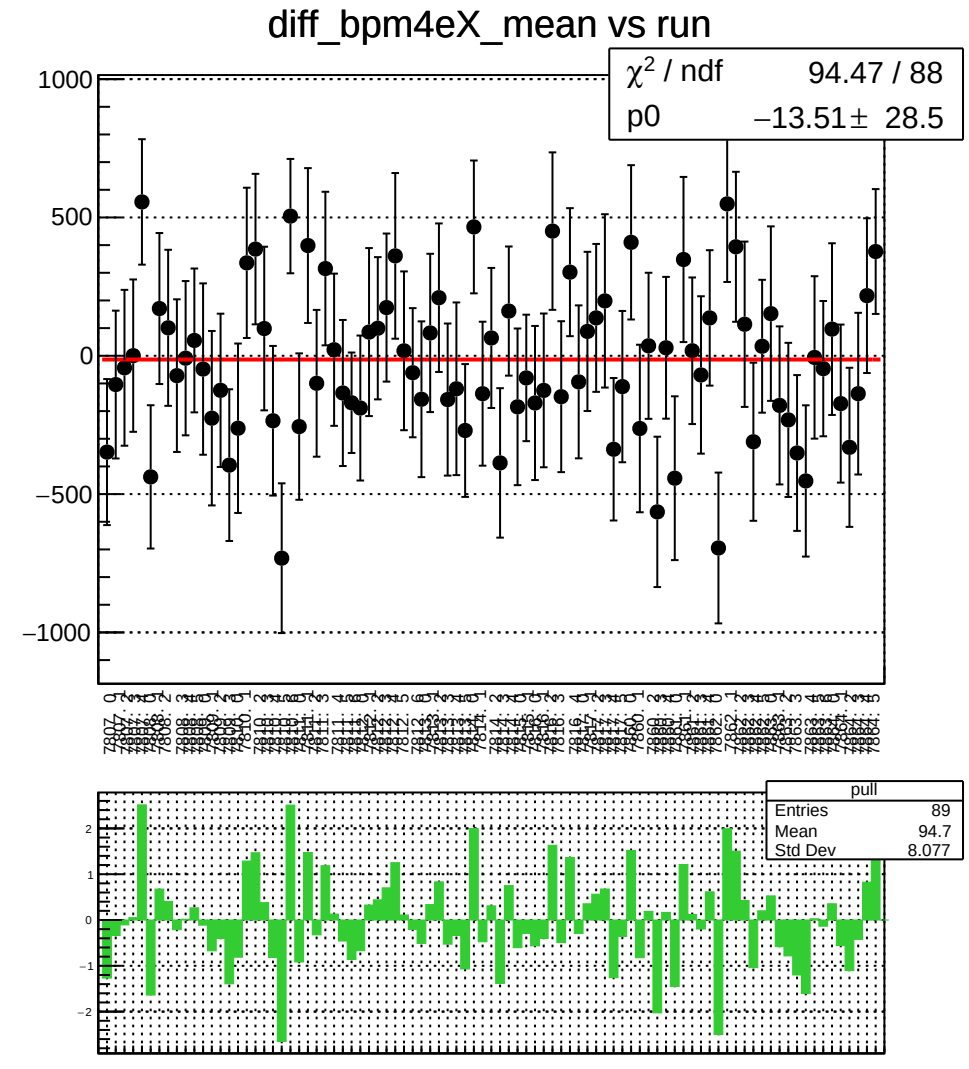

pull1D
Entries 89
Mean −0.01646
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

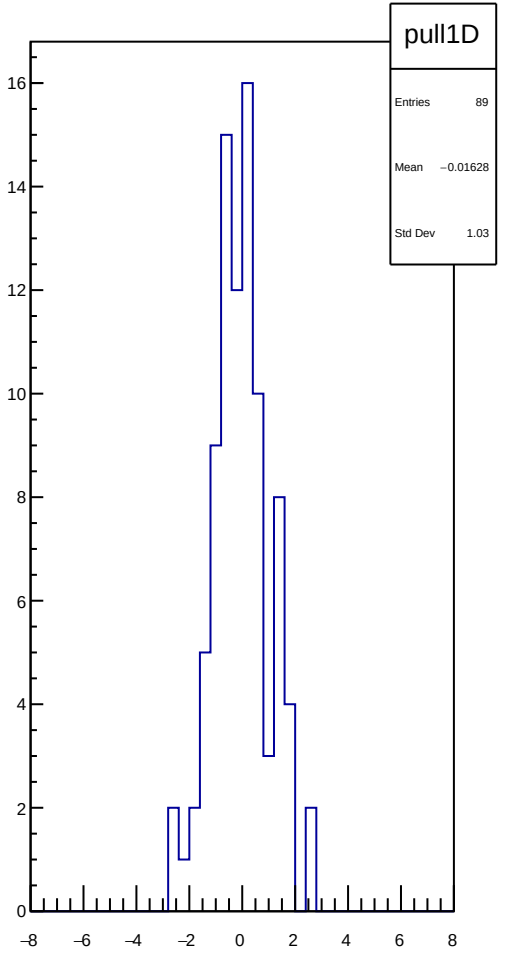

diff_bpm4aX_rms vs run
χ² / ndf 5209 / 88
p0 2.771e+04 ± 21.2
32000
31000
30000
29000
28000
27000
26000
25000
24000
23000

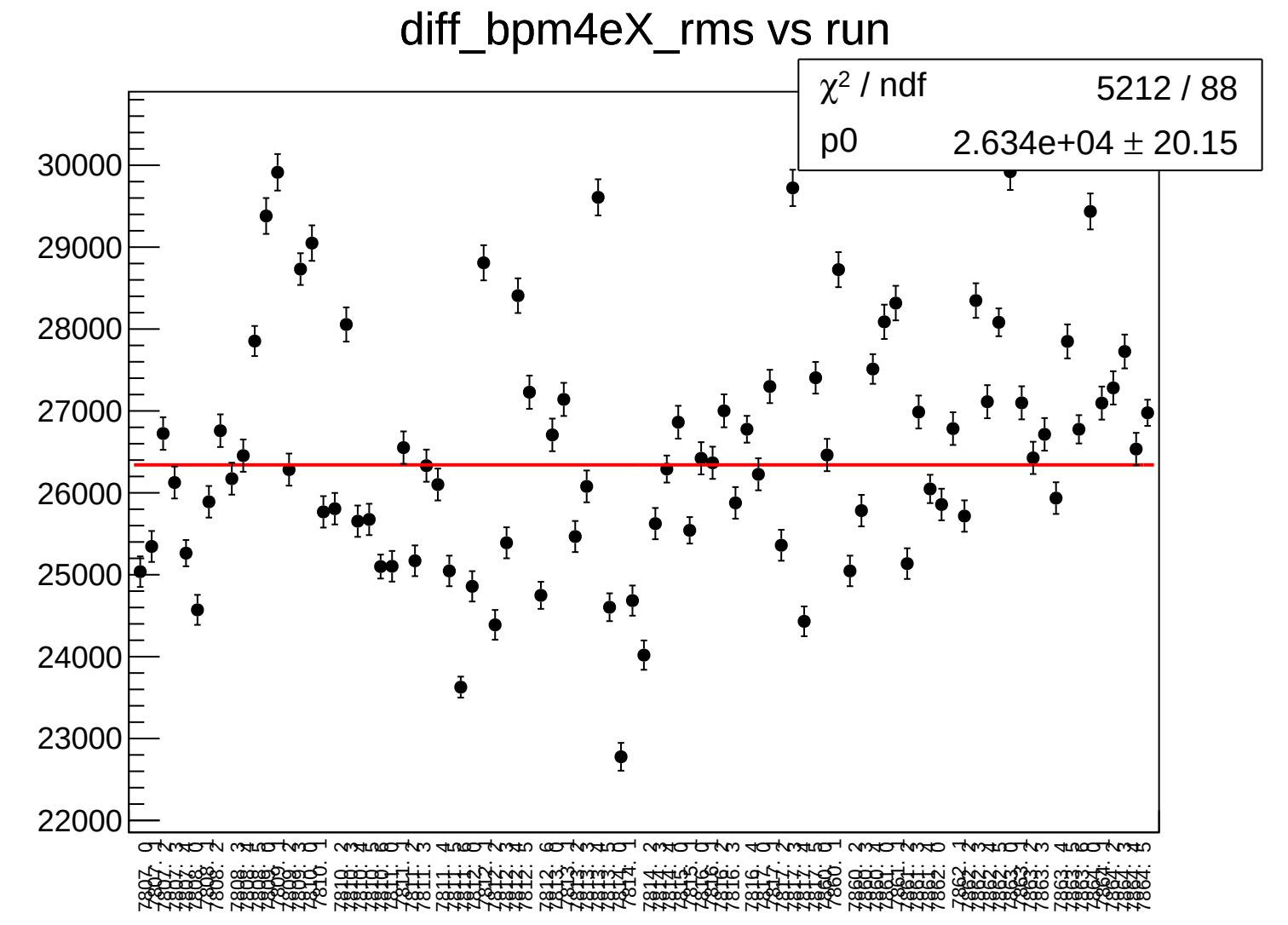

diff_bpm4aY_mean vs run
χ^2 / ndf 94.53 / 88
p0 1.376 ± 6.423
200
100
0
−100
−200
pull
Entries 89
Mean 43.4
Std Dev 26.46
2
1
0
−1
−2

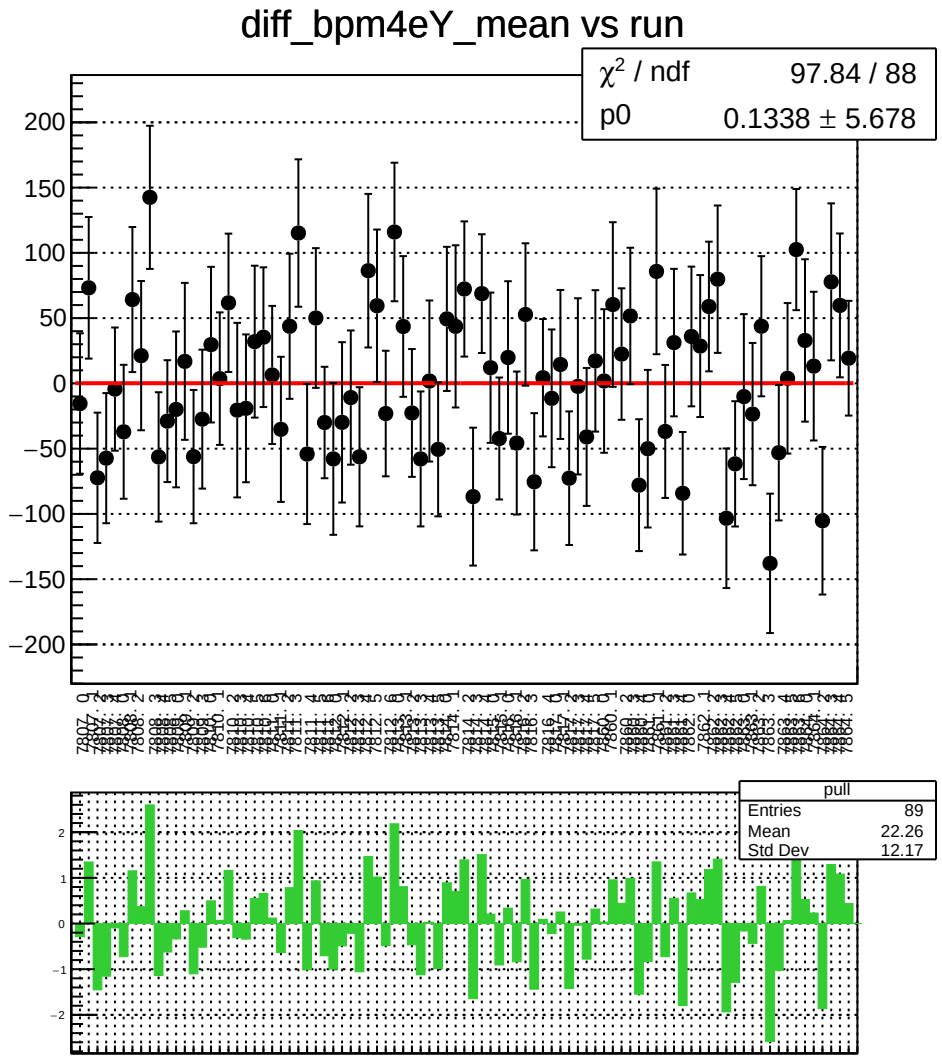

pull1D
Entries 89
Mean 0.01975
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

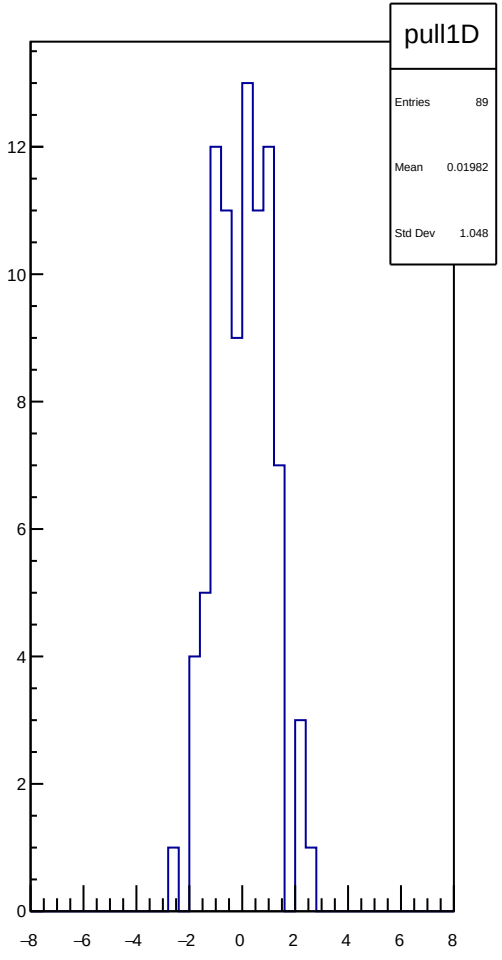

diff_bpm4aY_rms vs run
χ² / ndf 8237 / 88
p0 5931 ± 4.542
7500
7000
6500
6000
5500

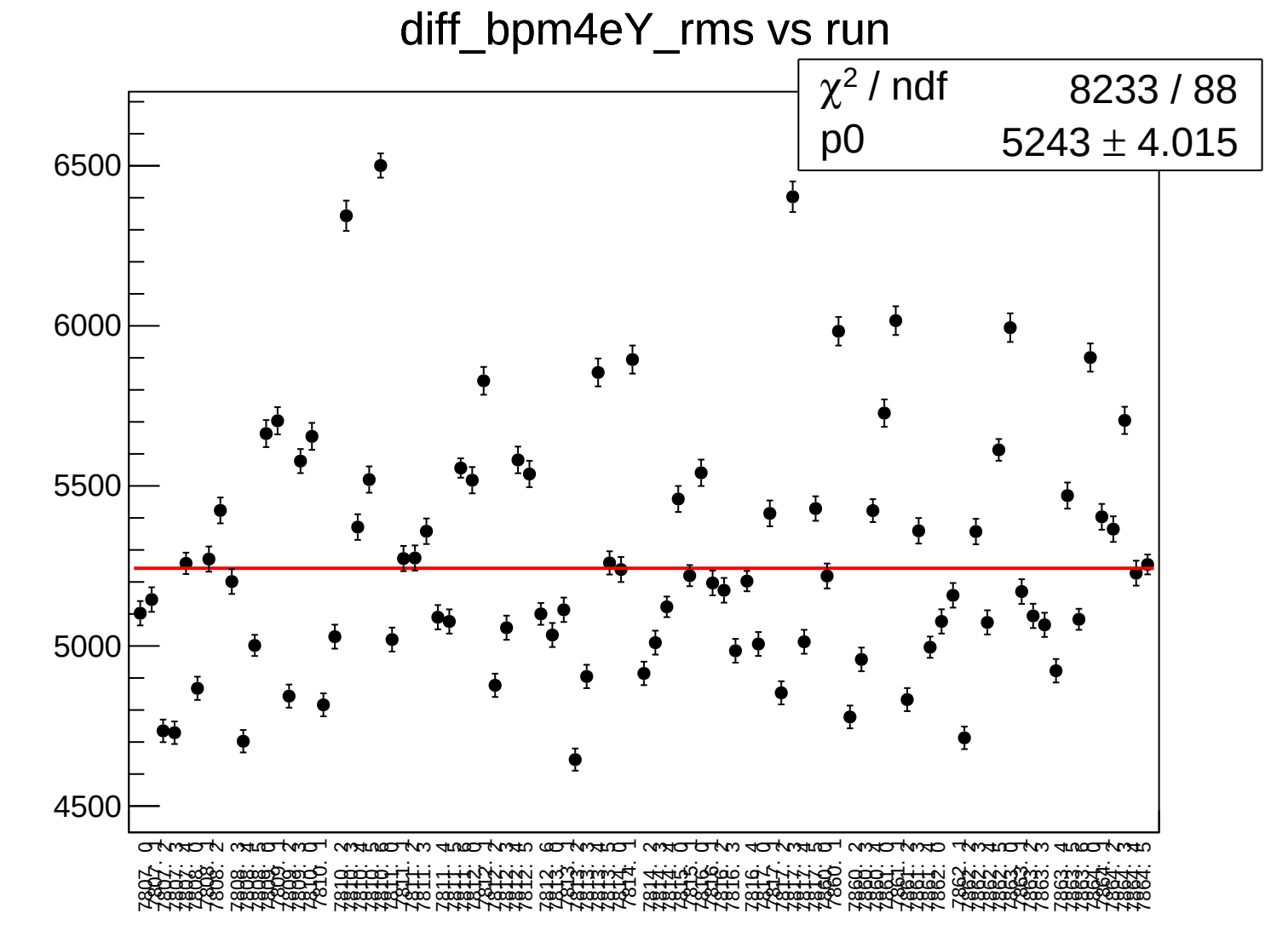

diff_bpm4eX_mean vs run
χ² / ndf 94.47 / 88
p0 −13.51 ± 28.5
1000
500
0
−500
−1000
pull
Entries 89
Mean 94.7
Std Dev 8.077
2
1
0
−1
−2

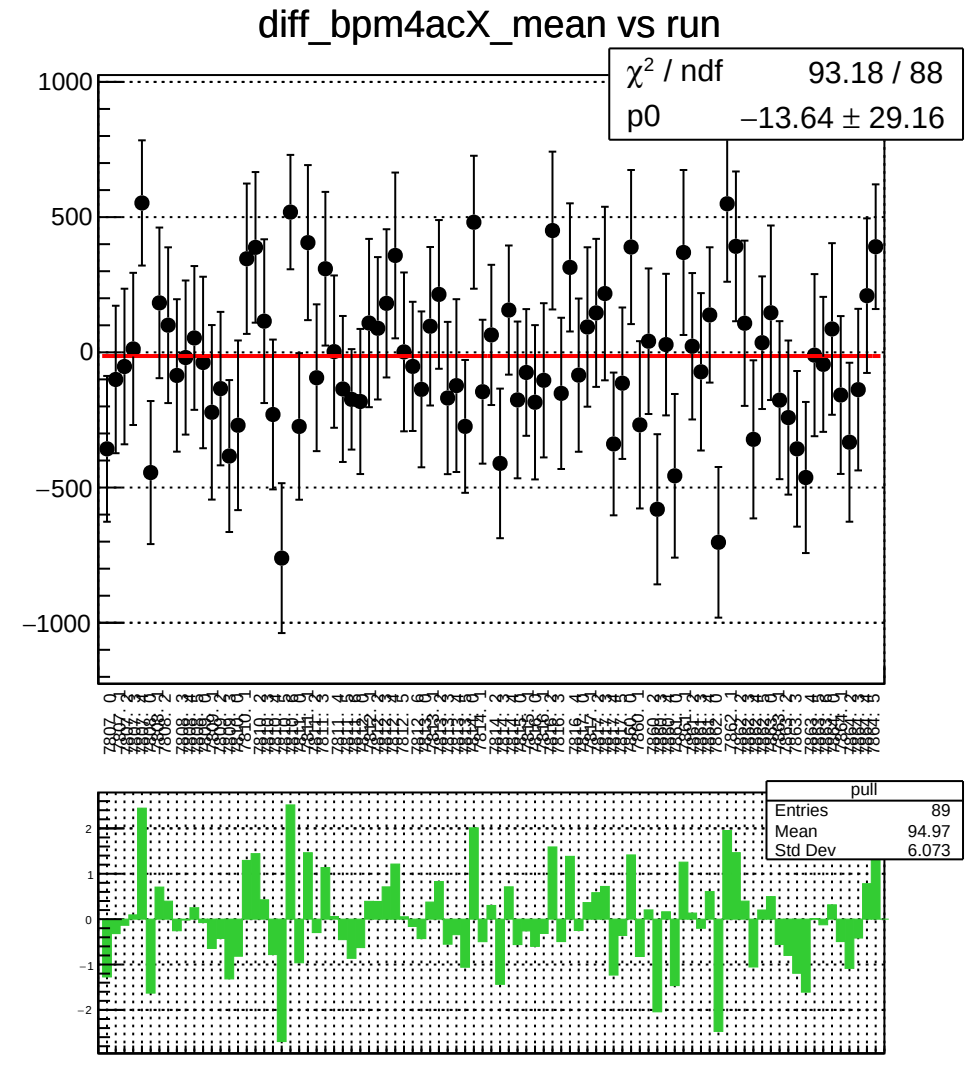

pull1D
Entries 89
Mean −0.01628
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

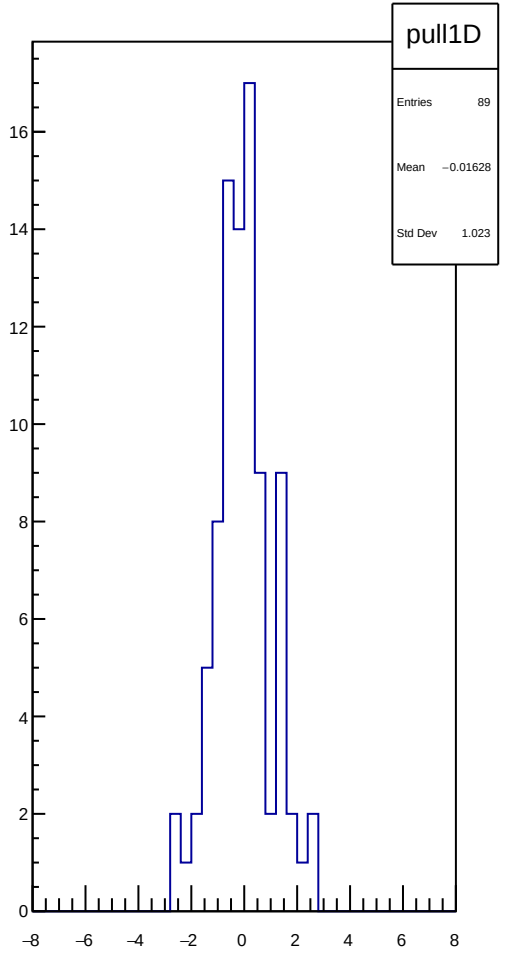

diff_bpm4eX_rms vs run
χ² / ndf 5212 / 88
p0 2.634e+04 ± 20.15
30000
29000
28000
27000
26000
25000
24000
23000
22000

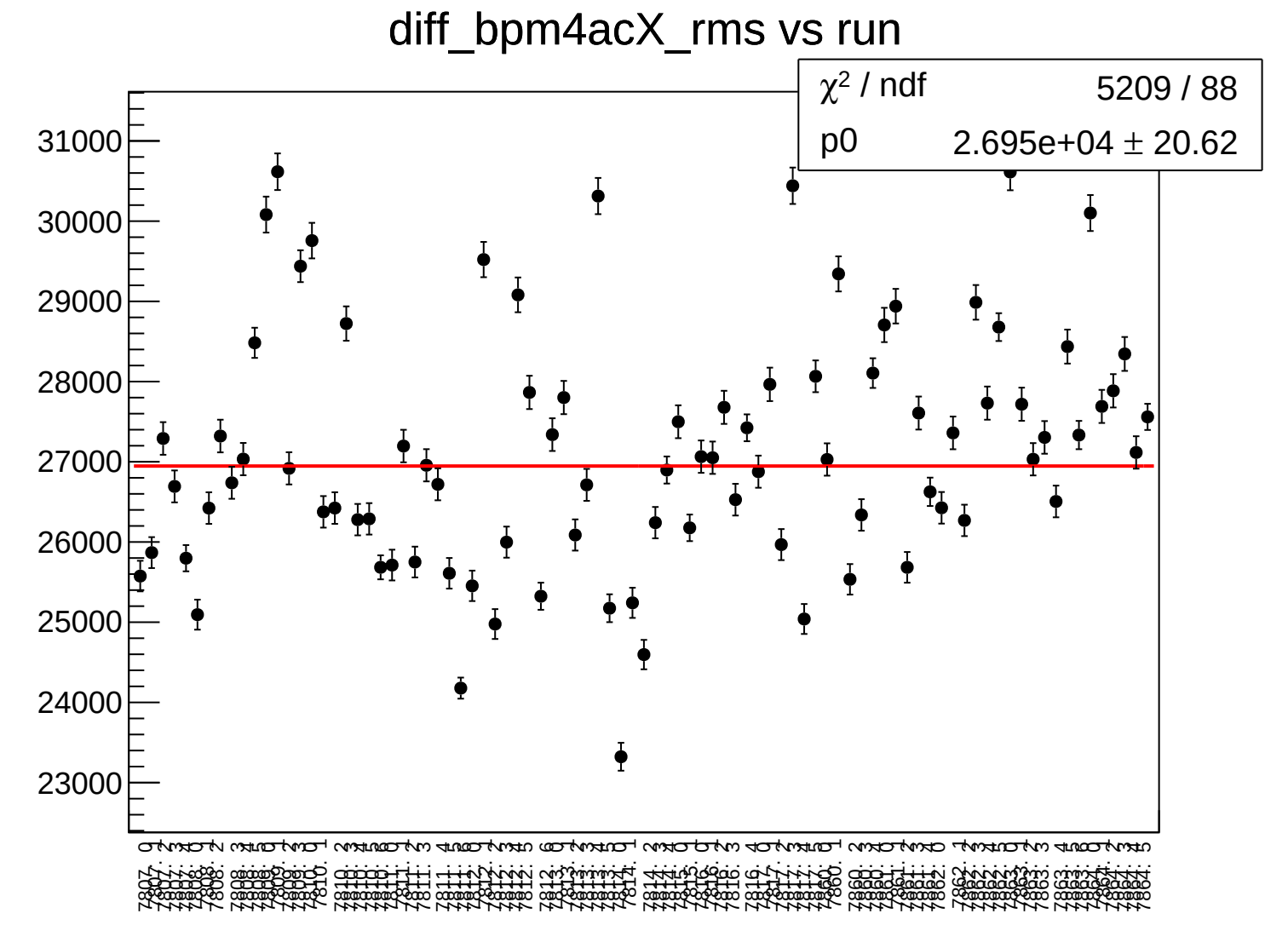

diff_bpm4eY_mean vs run
χ^2 / ndf 97.84 / 88
p0 0.1338 ± 5.678
pull
Entries 89
Mean 22.26
Std Dev 12.17

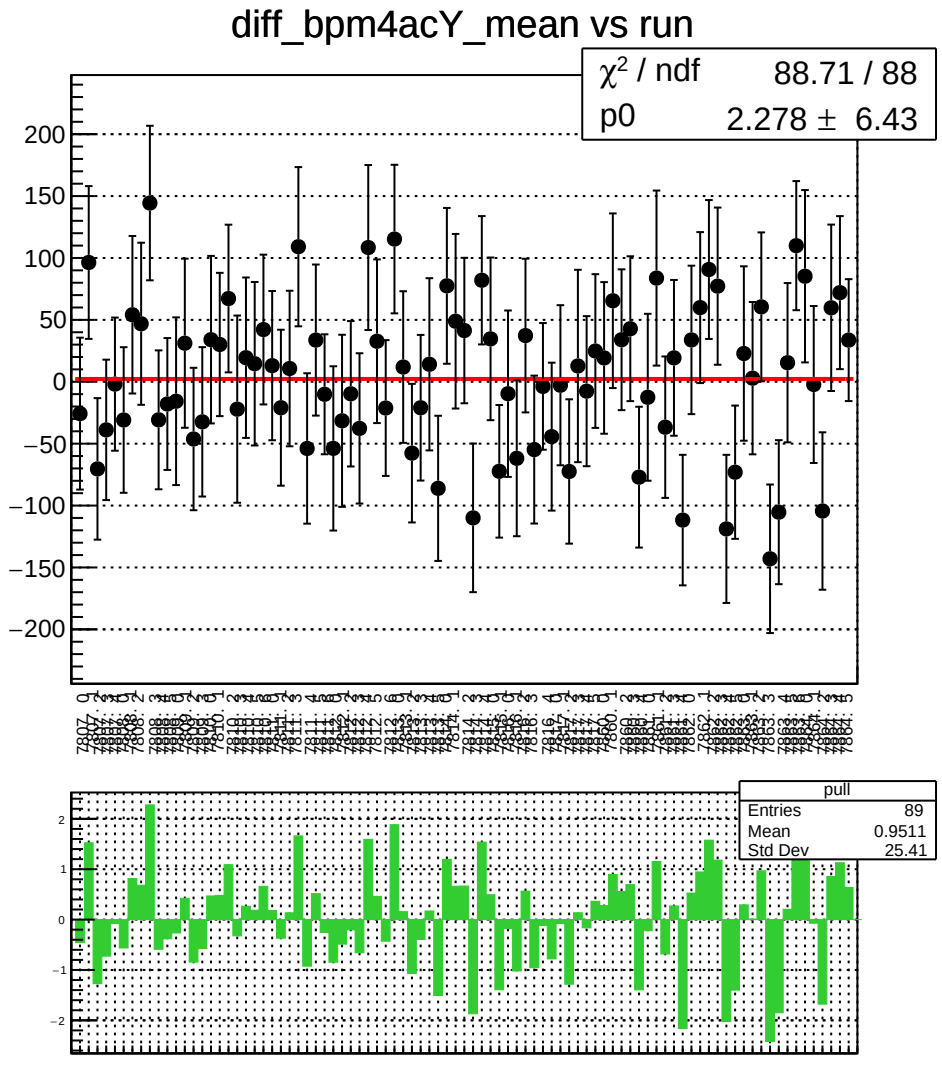

pull1D
Entries 89
Mean 0.01982
Std Dev 1.048

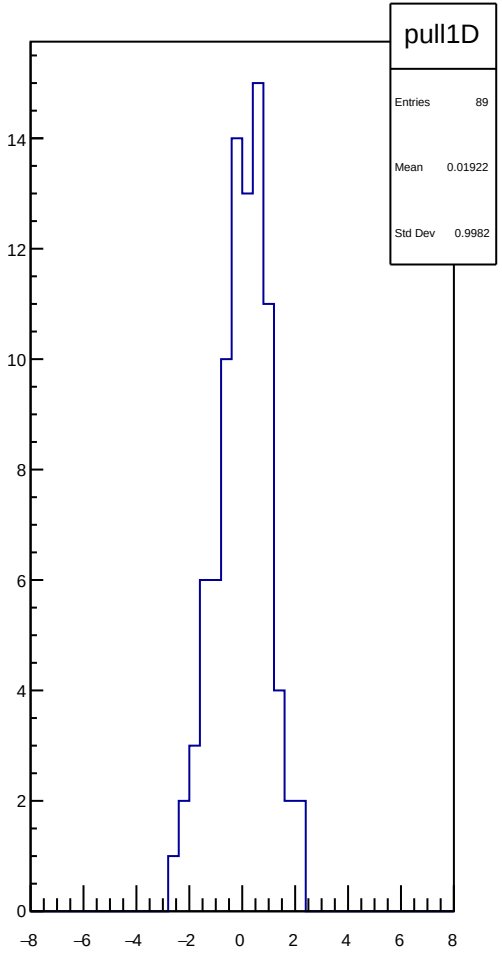

diff_bpm4eY_rms vs run
χ² / ndf 8233 / 88
p0 5243 ± 4.015
6500
6000
5500
5000
4500

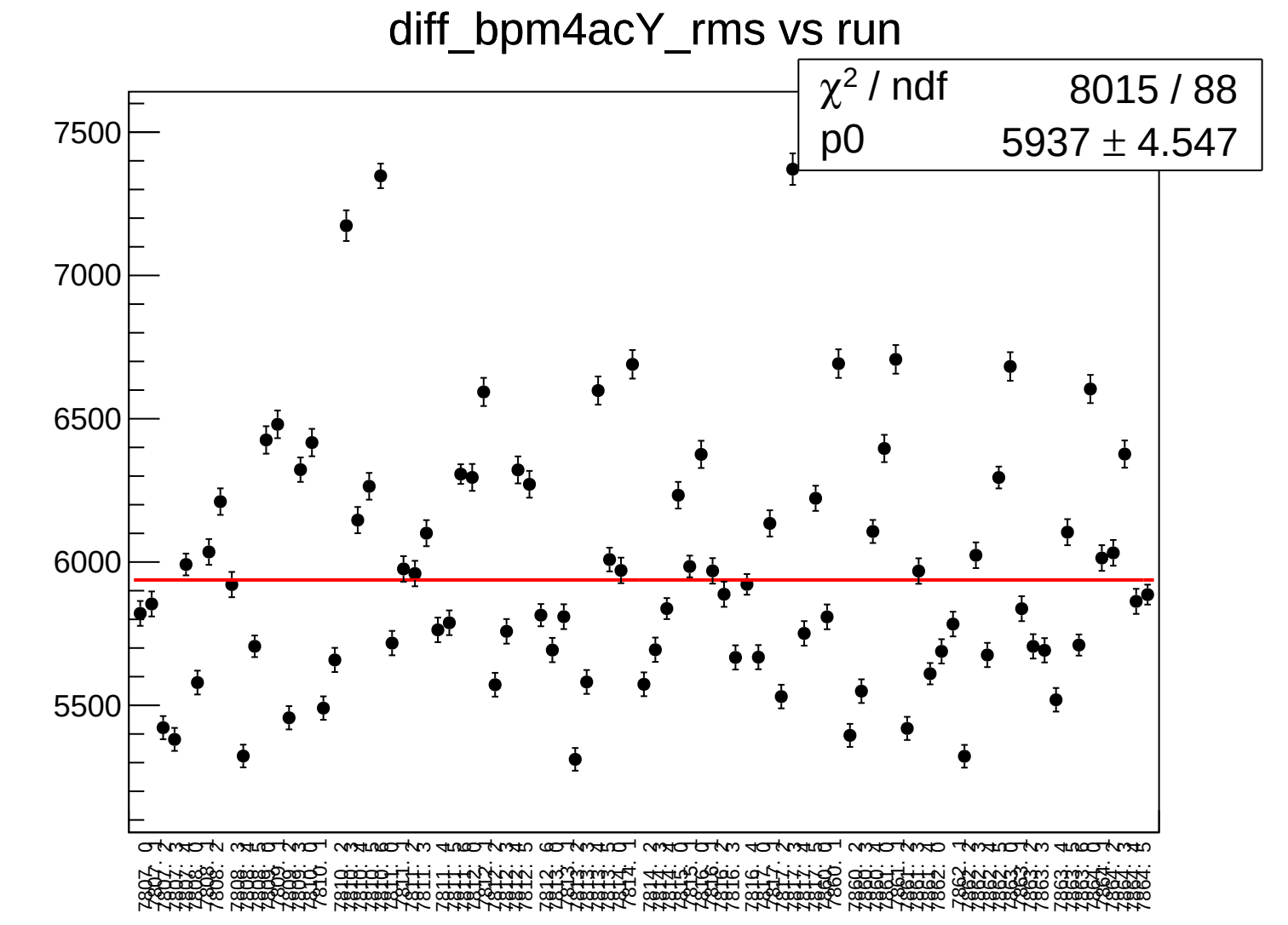

diff_bpm4acX_mean vs run
χ² / ndf 93.18 / 88
p0 −13.64 ± 29.16
1000
500
0
−500
−1000
pull
Entries 89
Mean 94.97
Std Dev 6.073
2
1
0
−1
−2

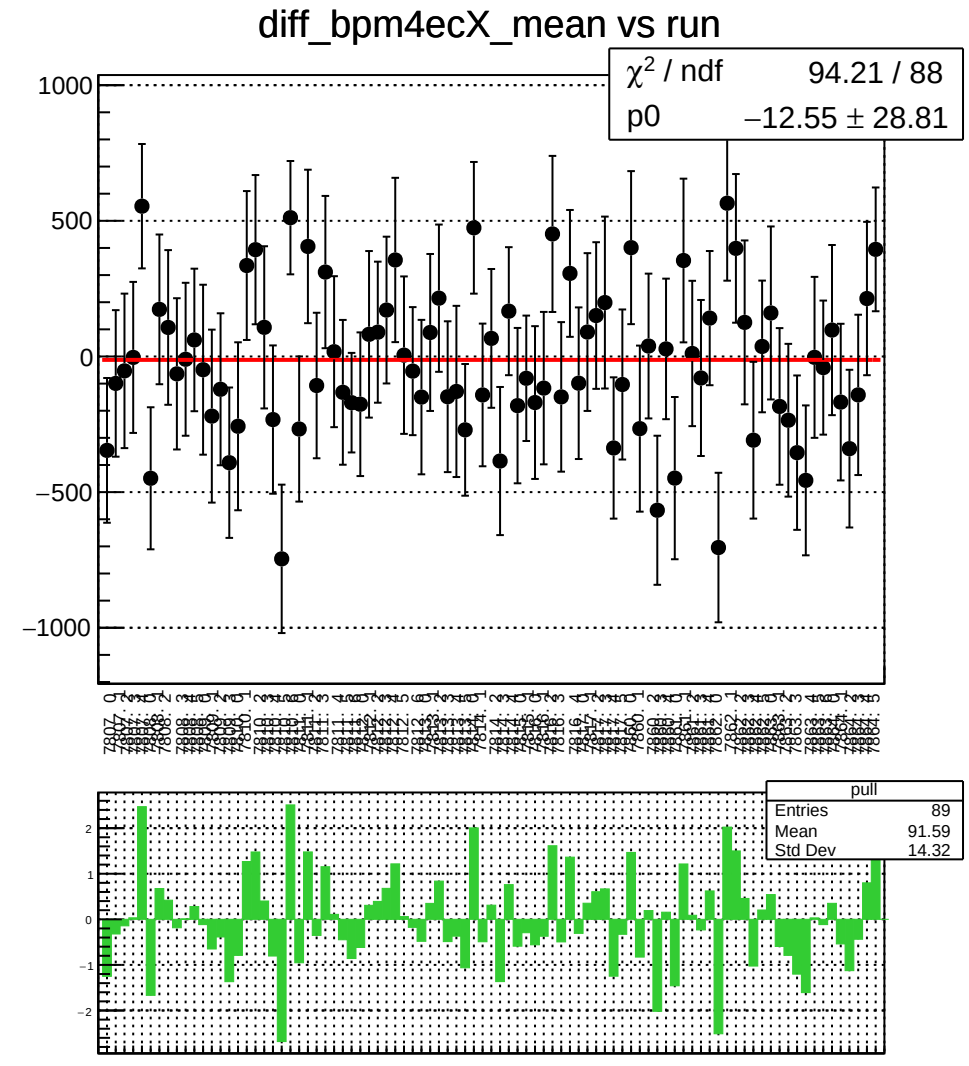

pull1D
Entries 89
Mean −0.01628
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

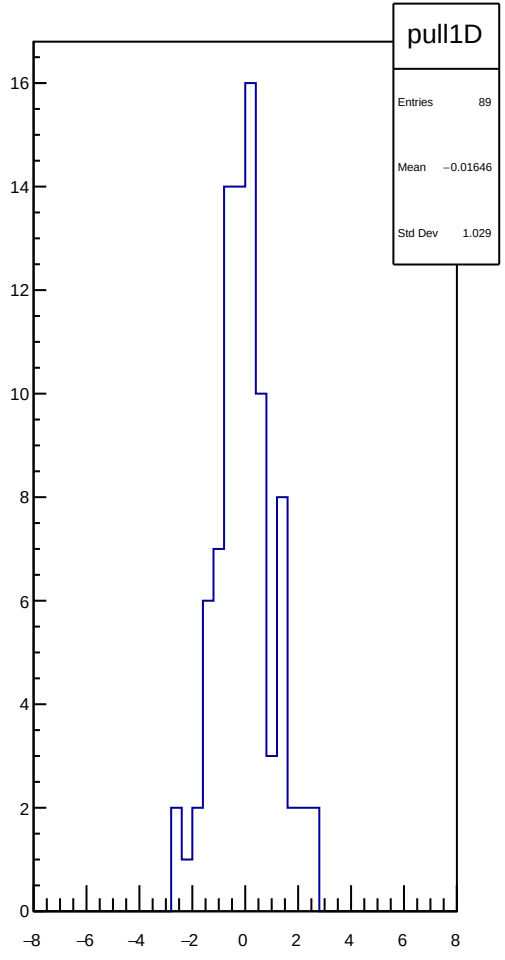

diff_bpm4acX_rms vs run
χ² / ndf 5209 / 88
p0 2.695e+04 ± 20.62
31000
30000
29000
28000
27000
26000
25000
24000
23000

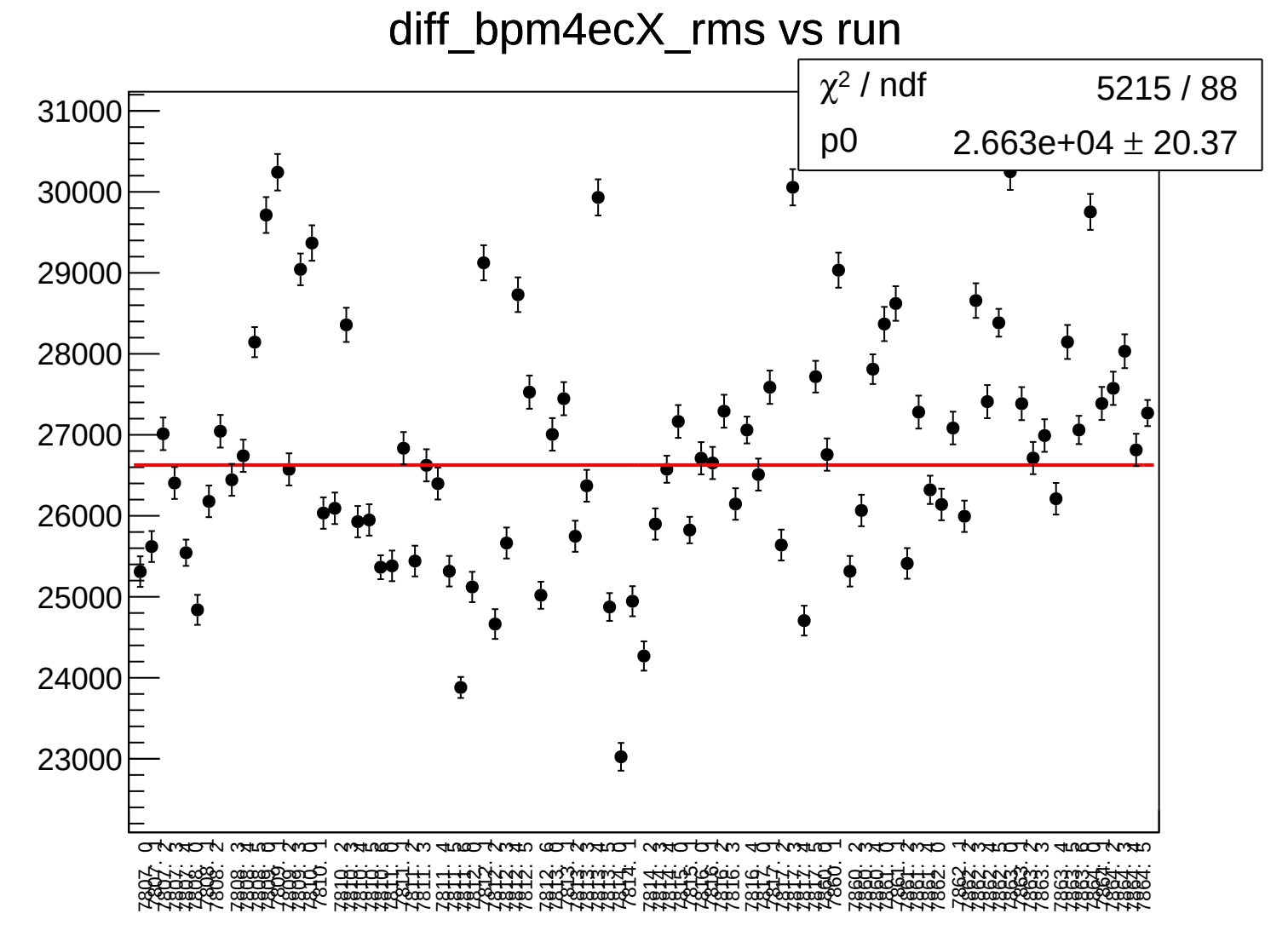

diff_bpm4acY_mean vs run
χ² / ndf 88.71 / 88
p0 2.278 ± 6.43
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 0.9511
Std Dev 25.41
2
1
0
−1
−2

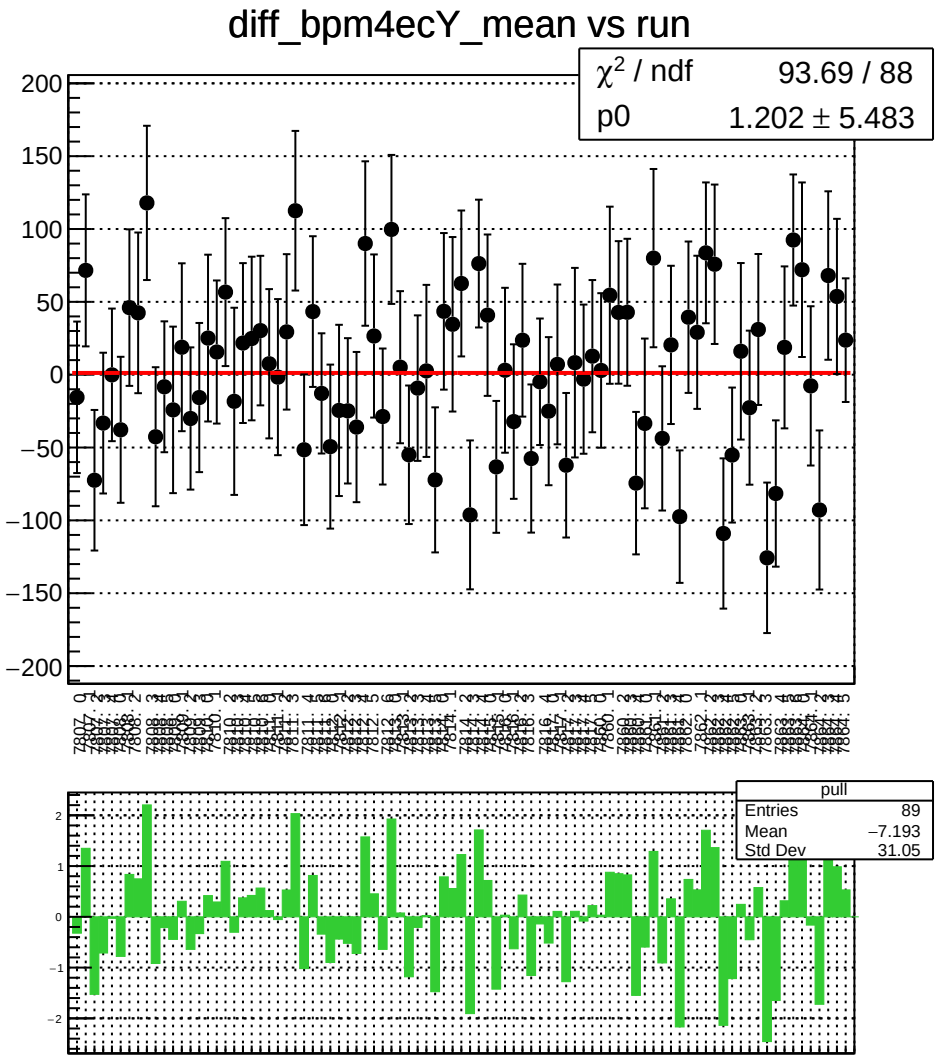

pull1D
Entries 89
Mean 0.01922
Std Dev 0.9982
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

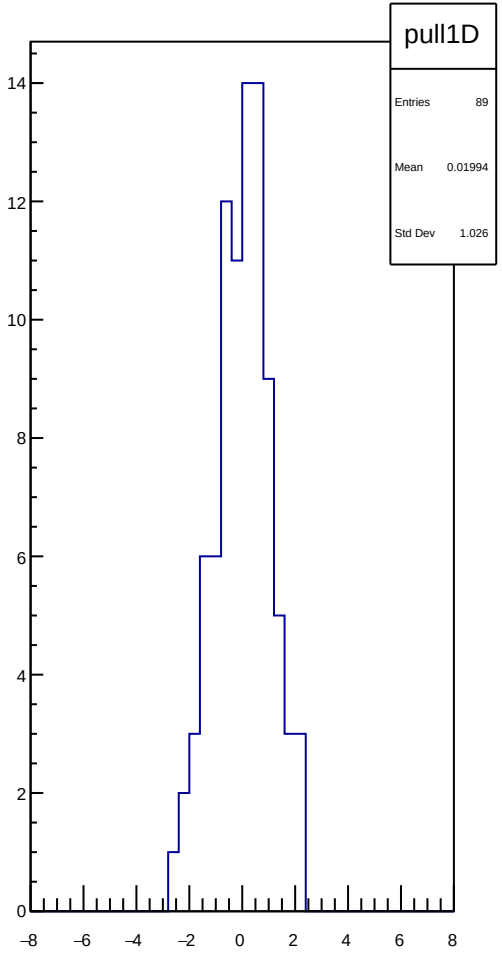

diff_bpm4acY_rms vs run
χ² / ndf 8015 / 88
p0 5937 ± 4.547
7500
7000
6500
6000
5500

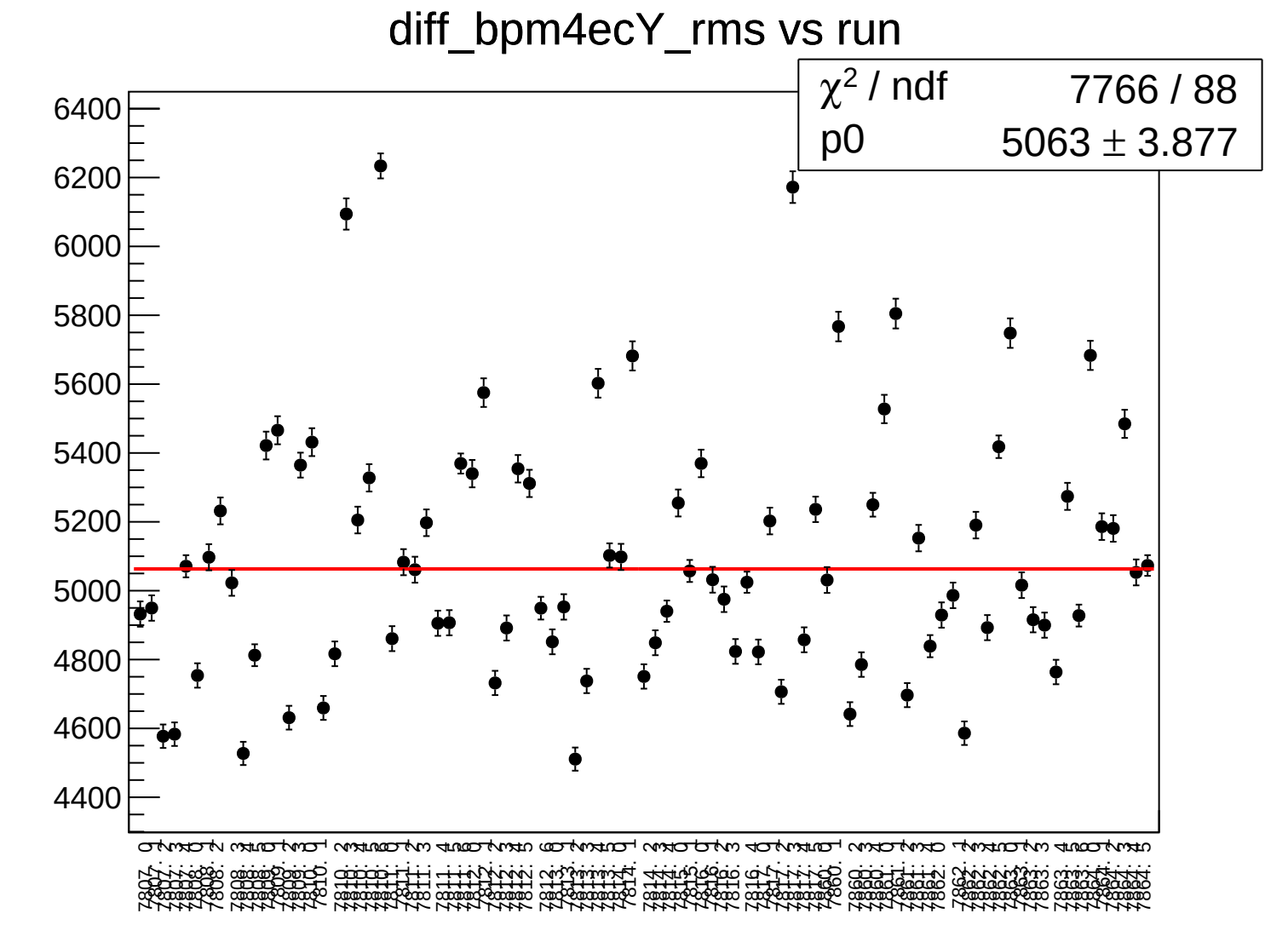

diff_bpm4ecX_mean vs run
χ^2 / ndf 94.21 / 88
p0 −12.55 ± 28.81
1000
500
0
−500
−1000
pull
Entries 89
Mean 91.59
Std Dev 14.32
2
1
0
−1
−2

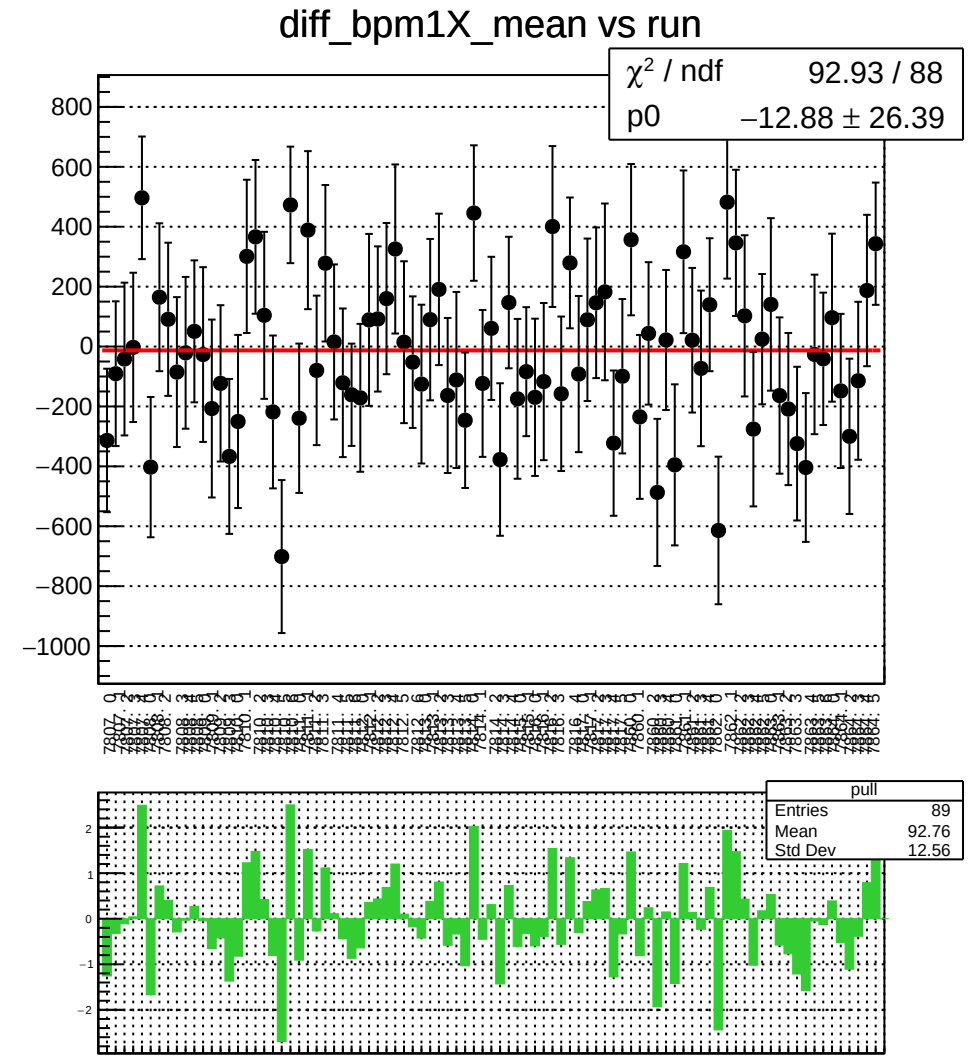

pull1D
Entries 89
Mean −0.01646
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

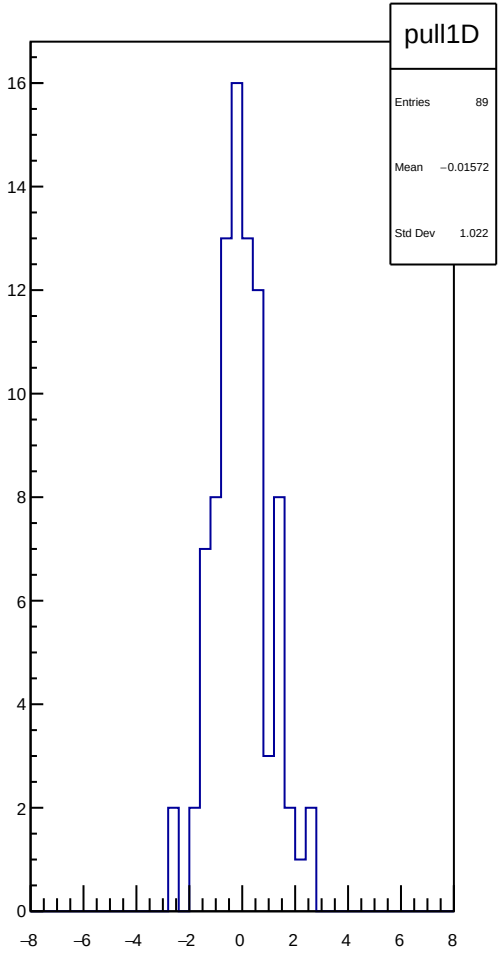

diff_bpm4ecX_rms vs run
χ² / ndf 5215 / 88
p0 2.663e+04 ± 20.37
31000
30000
29000
28000
27000
26000
25000
24000
23000

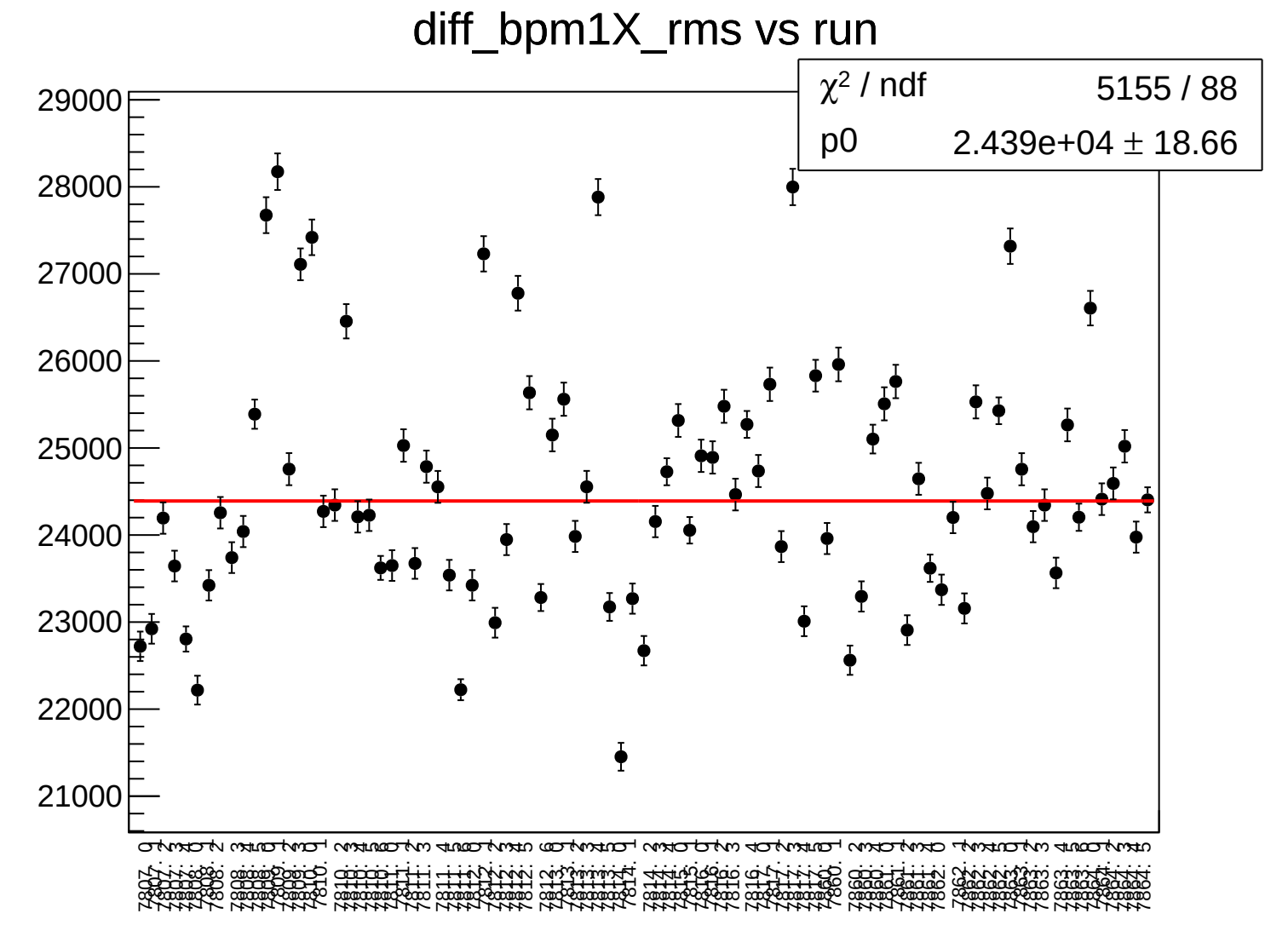

diff_bpm4ecY_mean vs run
χ² / ndf 93.69 / 88
p0 1.202 ± 5.483
pull
Entries 89
Mean −7.193
Std Dev 31.05

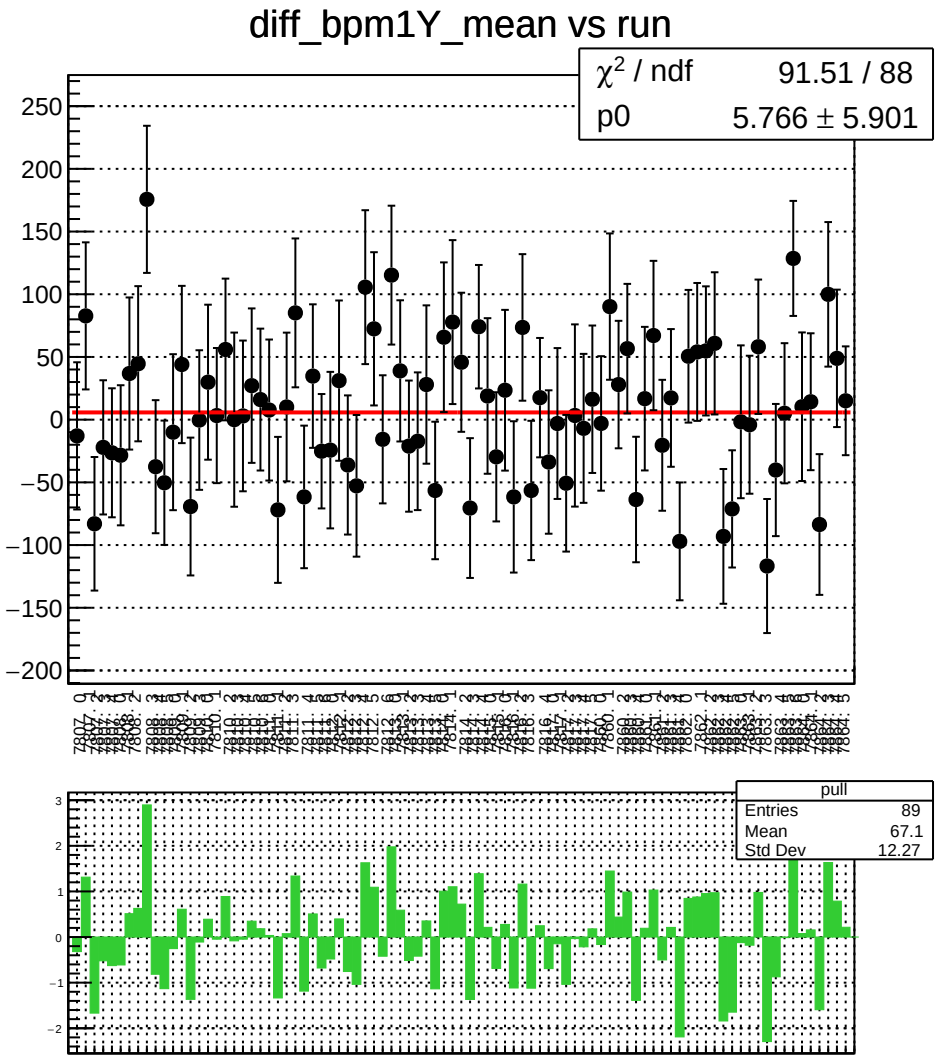

pull1D
Entries 89
Mean 0.01994
Std Dev 1.026

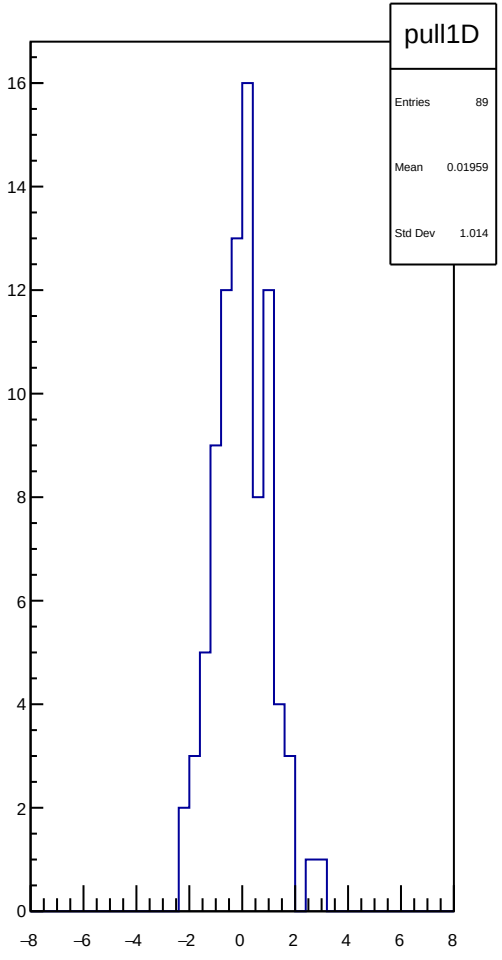

diff_bpm4ecY_rms vs run
χ² / ndf 7766 / 88
p0 5063 ± 3.877
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

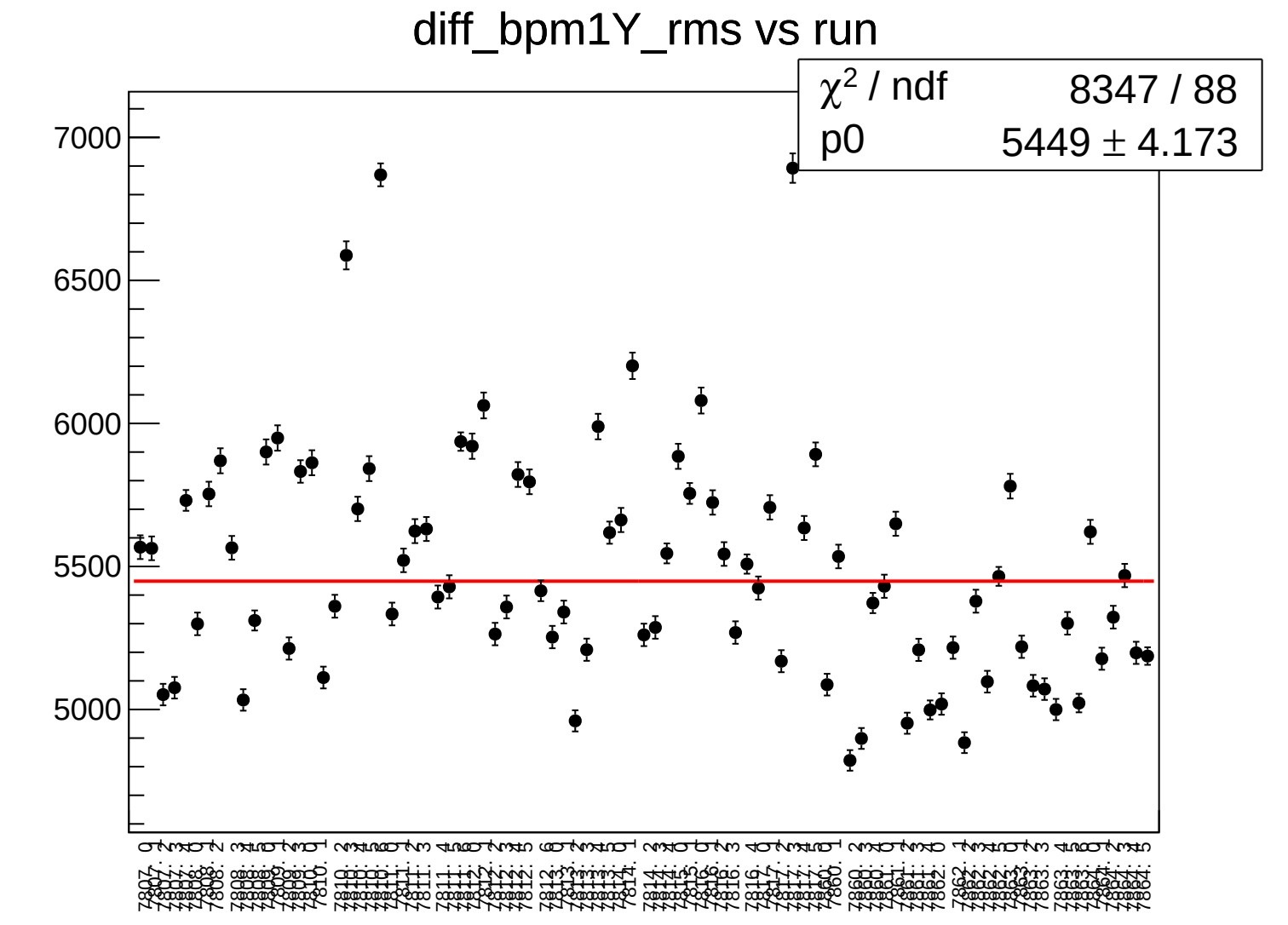

diff_bpm1X_mean vs run
χ² / ndf 92.93 / 88
p0 −12.88 ± 26.39
pull
Entries 89
Mean 92.76
Std Dev 12.56

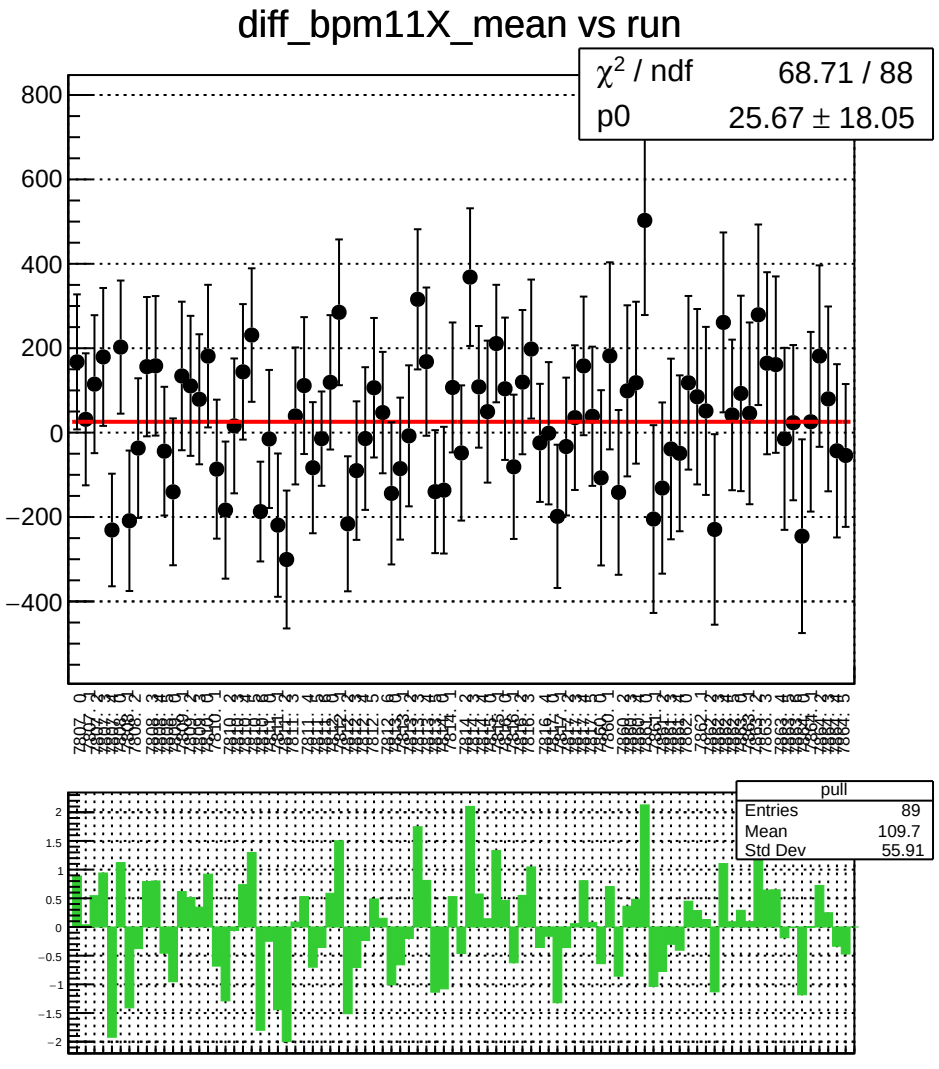

pull1D
Entries 89
Mean −0.01572
Std Dev 1.022

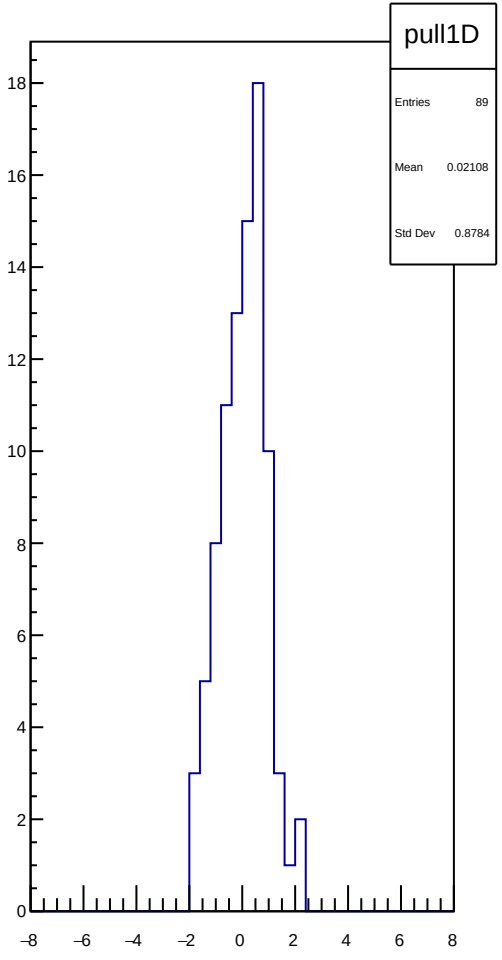

diff_bpm1X_rms vs run
χ² / ndf 5155 / 88
p0 2.439e+04 ± 18.66
29000
28000
27000
26000
25000
24000
23000
22000
21000

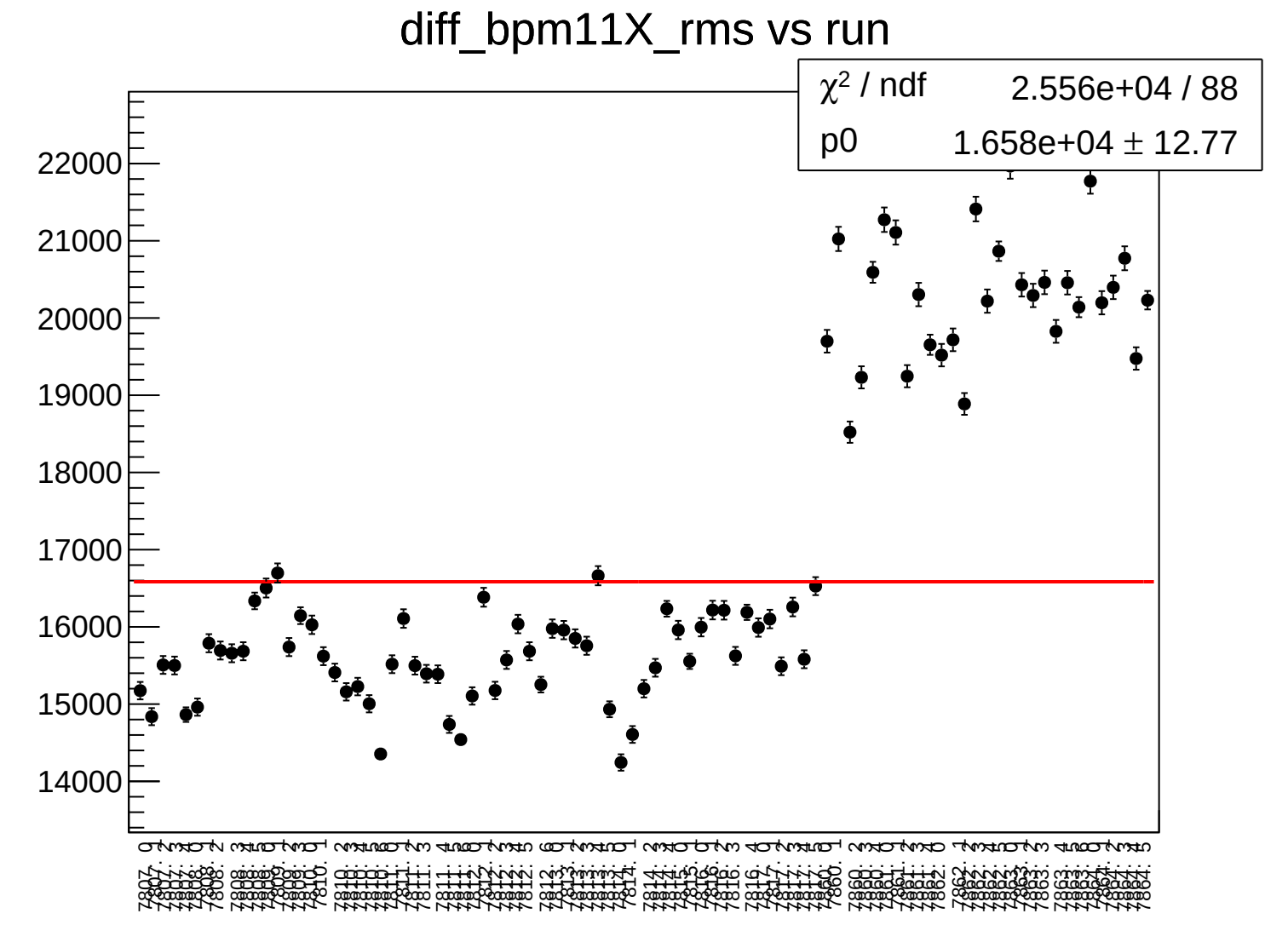

diff_bpm1Y_mean vs run
χ² / ndf 91.51 / 88
p0 5.766 ± 5.901
pull
Entries 89
Mean 67.1
Std Dev 12.27

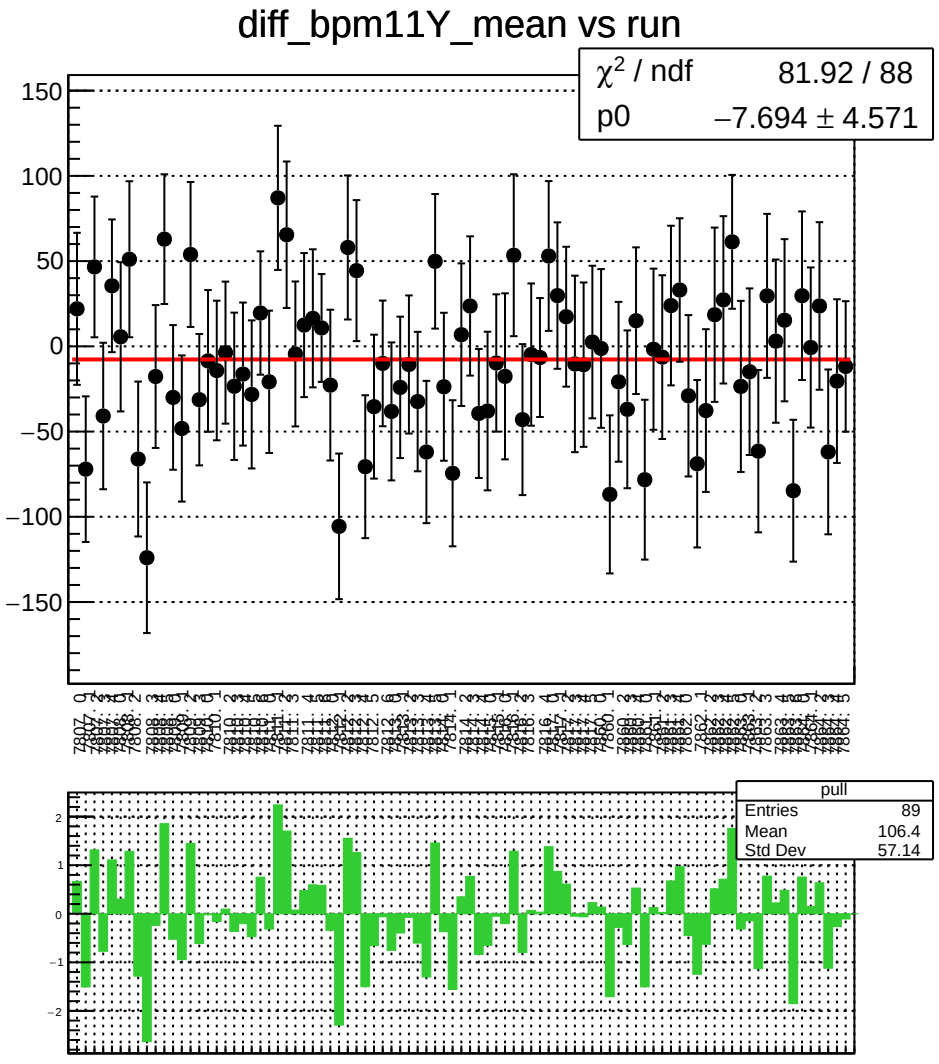

pull1D
Entries 89
Mean 0.01959
Std Dev 1.014

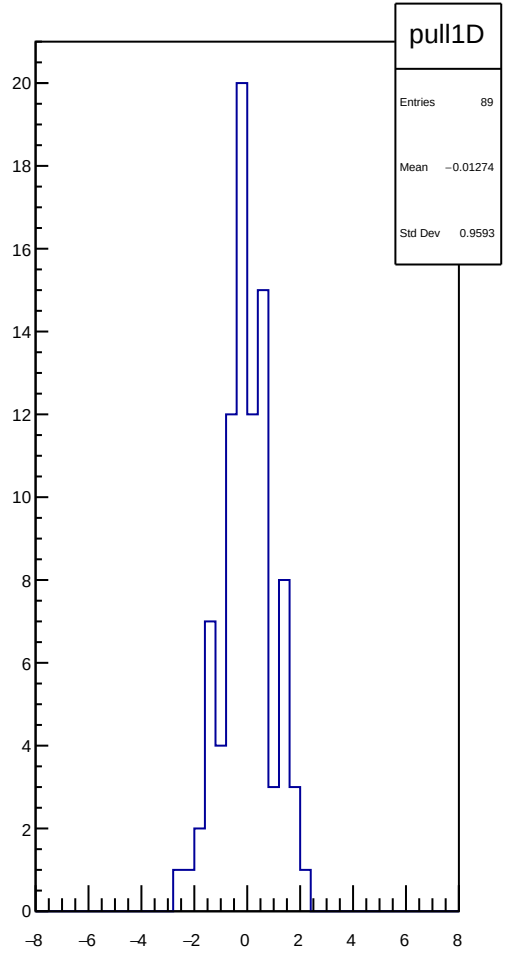

diff_bpm1Y_rms vs run
χ² / ndf 8347 / 88
p0 5449 ± 4.173
7000
6500
6000
5500
5000

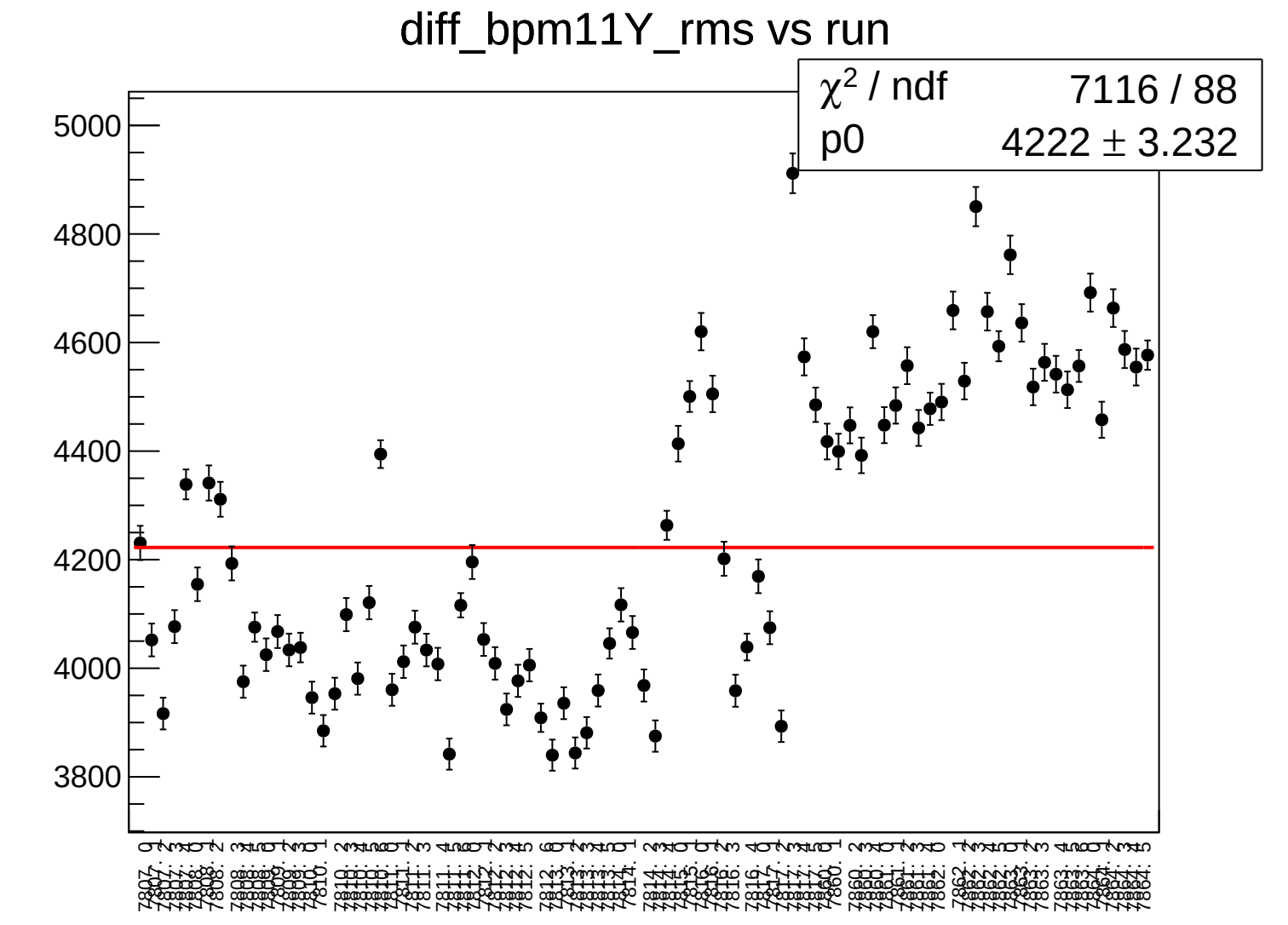

diff_bpm11X_mean vs run
χ^2 / ndf 68.71 / 88
p0 25.67 ± 18.05
pull
Entries 89
Mean 109.7
Std Dev 55.91

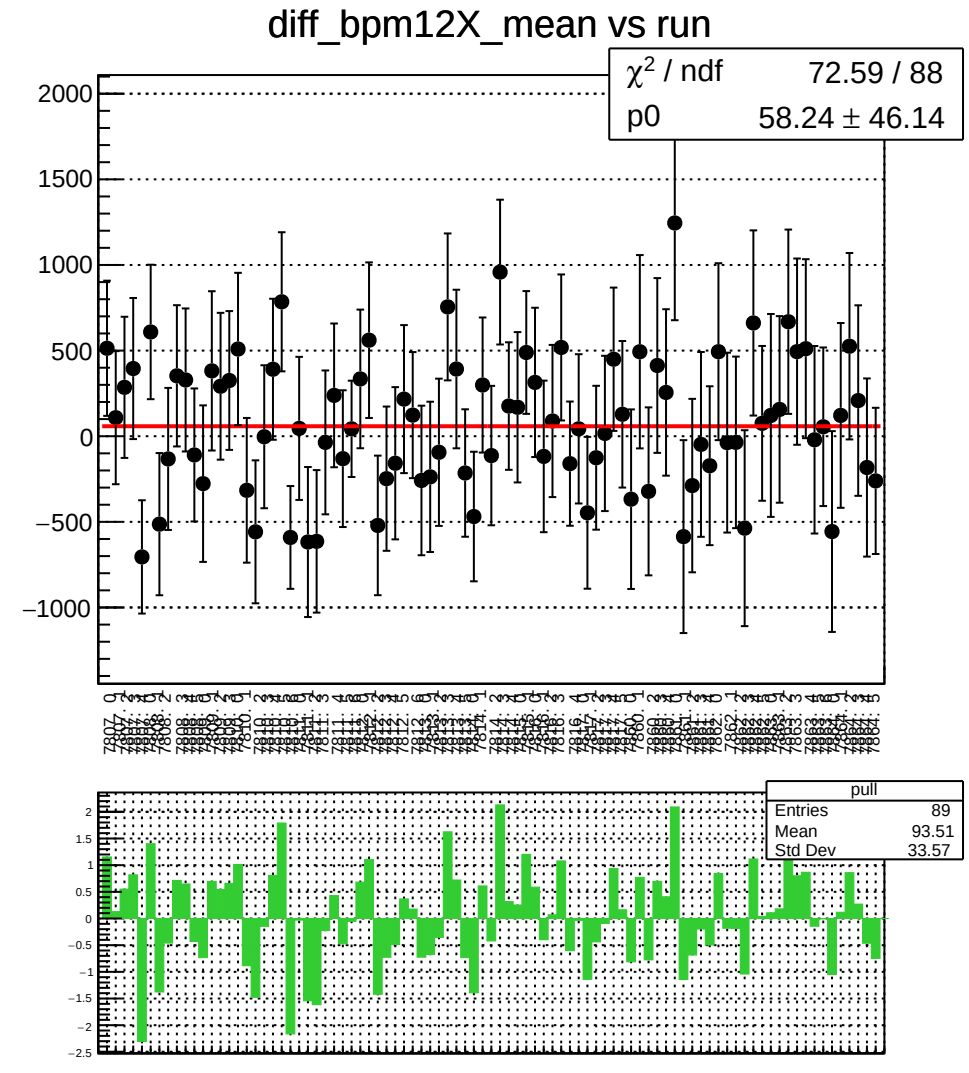

pull1D
Entries 89
Mean 0.02108
Std Dev 0.8784

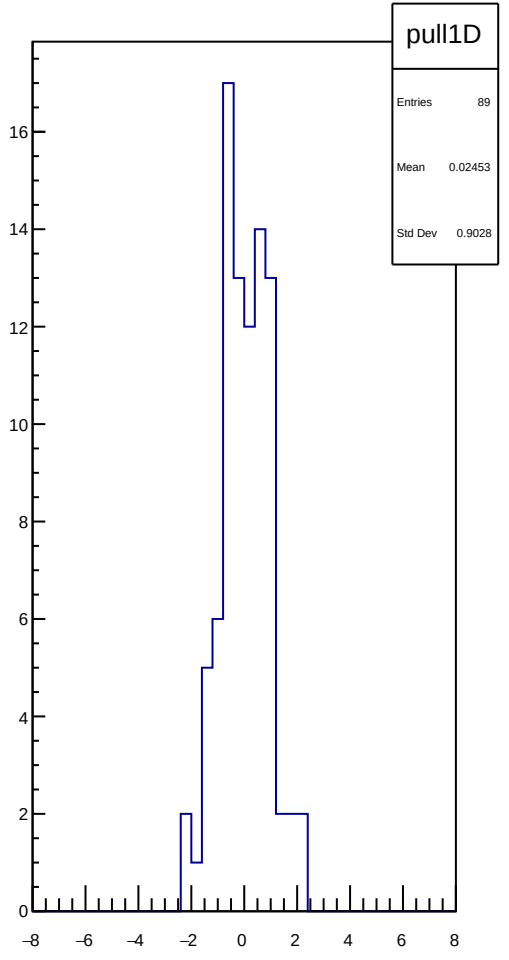

diff_bpm11X_rms vs run
χ² / ndf 2.556e+04 / 88
p0 1.658e+04 ± 12.77
22000
21000
20000
19000
18000
17000
16000
15000
14000

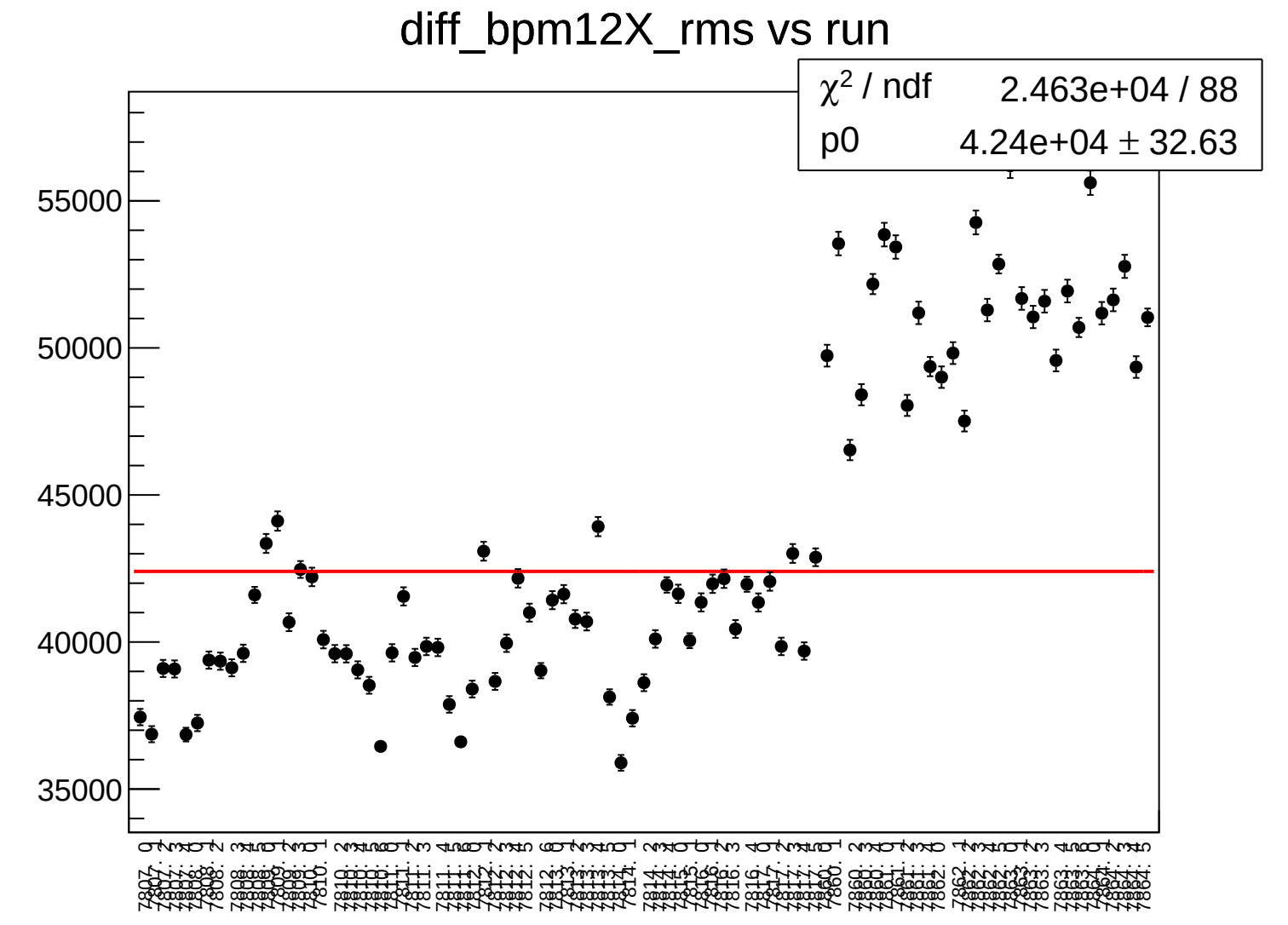

diff_bpm11Y_mean vs run
χ² / ndf 81.92 / 88
p0 −7.694 ± 4.571
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 106.4
Std Dev 57.14
2
1
0
−1
−2

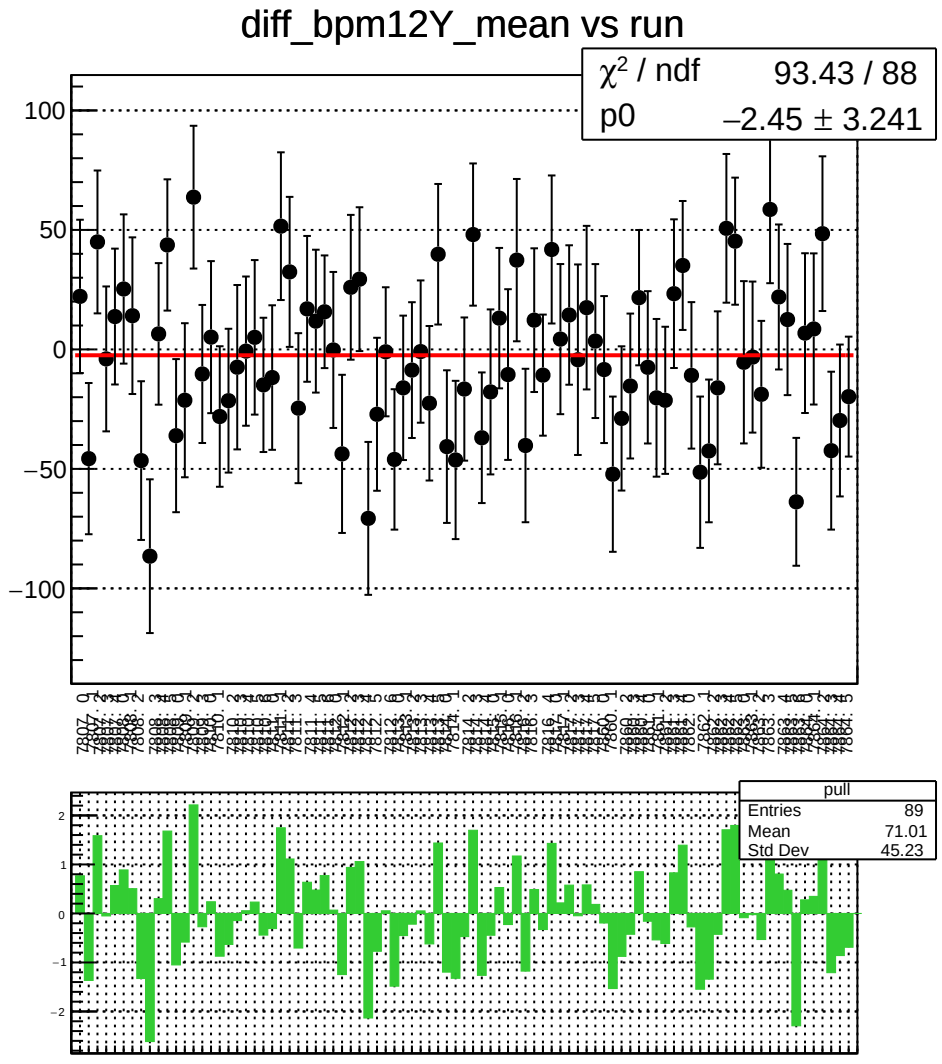

pull1D
Entries 89
Mean −0.01274
Std Dev 0.9593
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

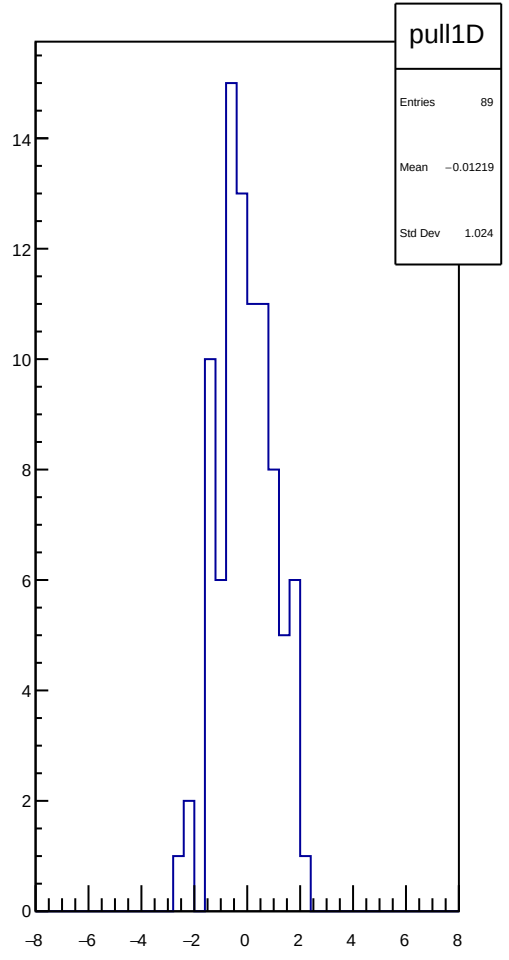

diff_bpm11Y_rms vs run
χ² / ndf 7116 / 88
p0 4222 ± 3.232
5000
4800
4600
4400
4200
4000
3800

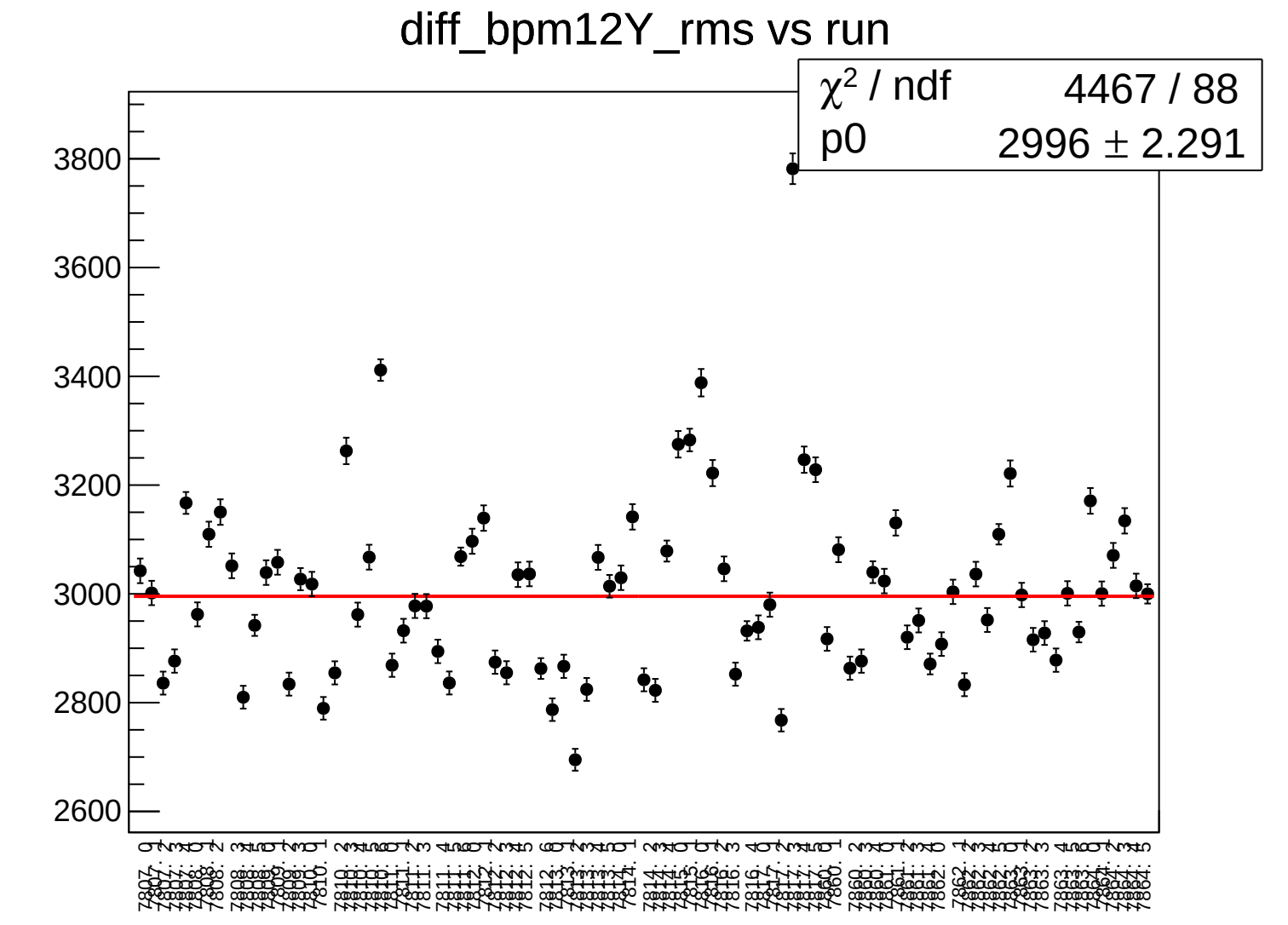

diff_bpm12X_mean vs run
χ² / ndf 72.59 / 88
p0 58.24 ± 46.14
2000
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean 93.51
Std Dev 33.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

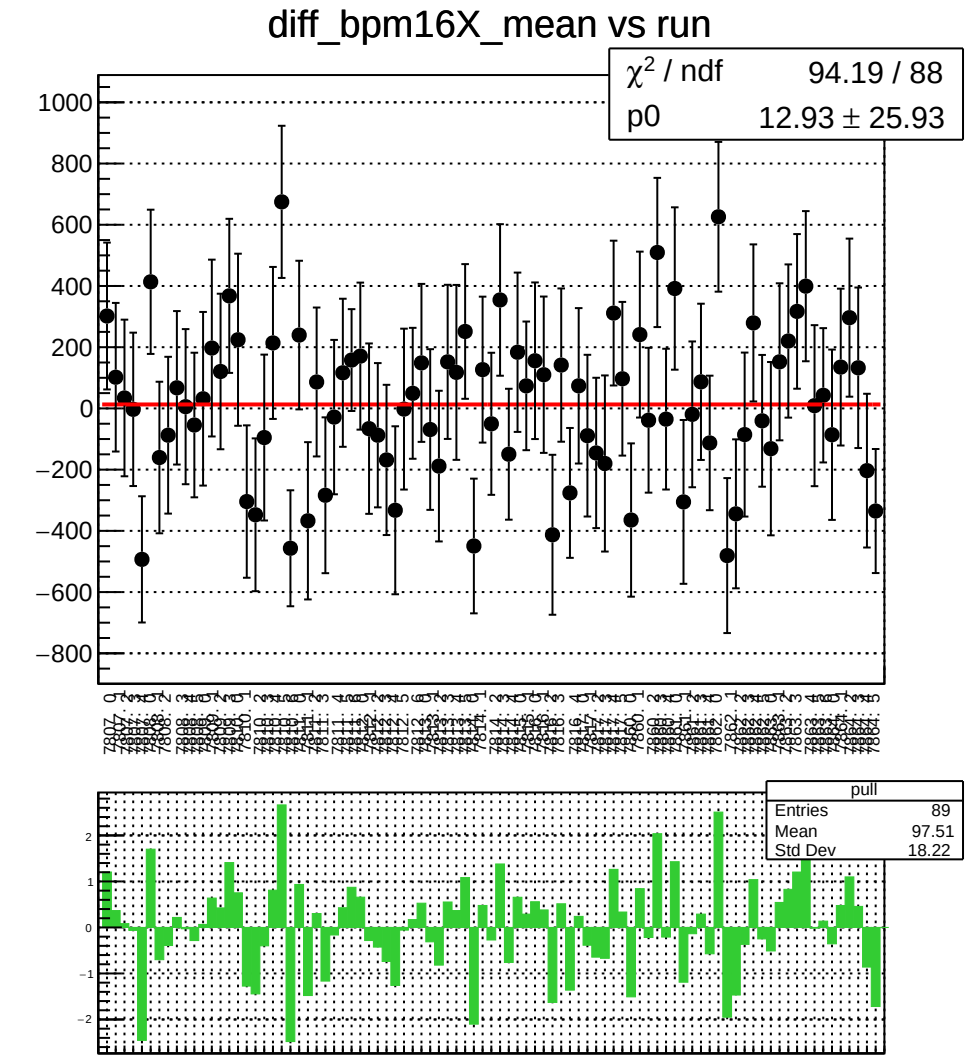

pull1D
Entries 89
Mean 0.02453
Std Dev 0.9028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

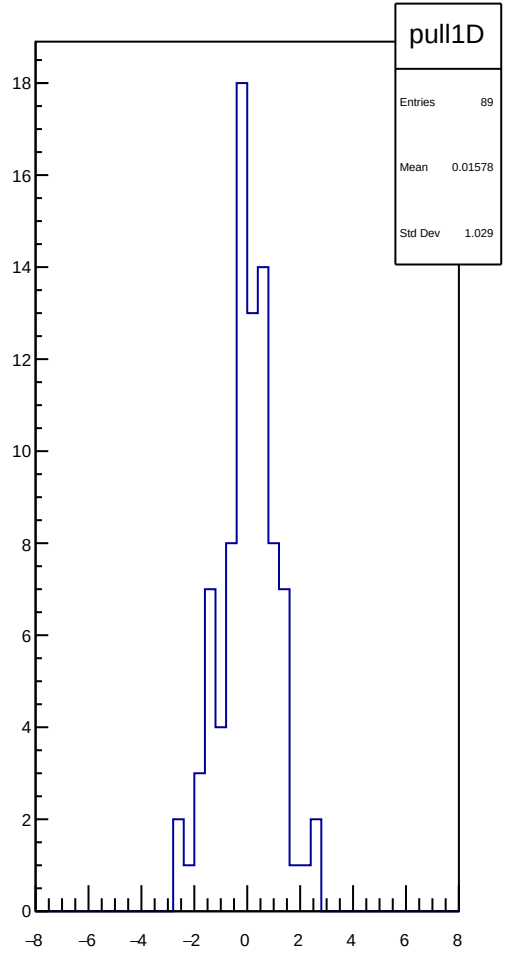

diff_bpm12X_rms vs run
χ² / ndf 2.463e+04 / 88
p0 4.24e+04 ± 32.63
55000
50000
45000
40000
35000

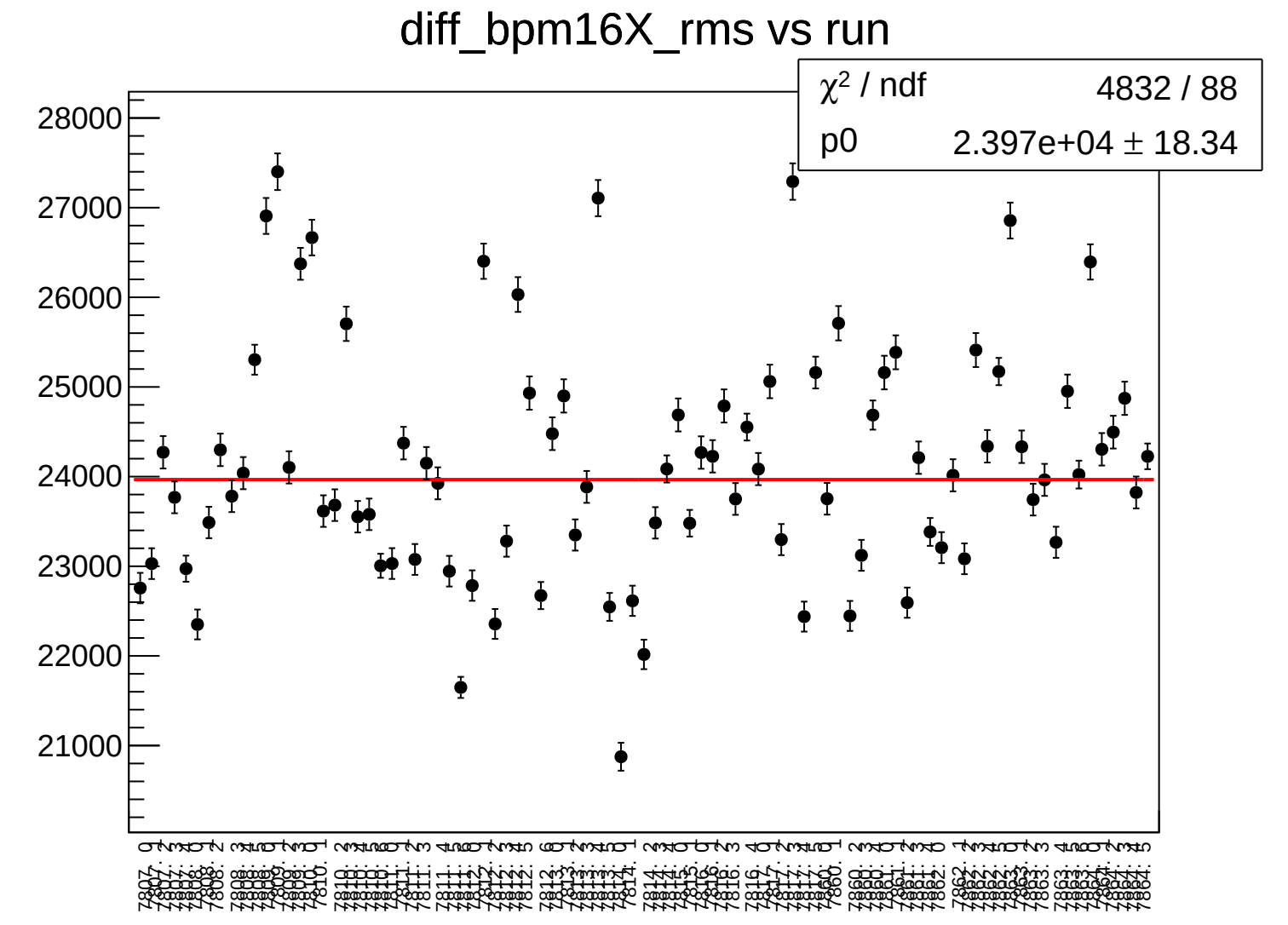

diff_bpm12Y_mean vs run
χ² / ndf 93.43 / 88
p0 −2.45 ± 3.241
100
50
0
−50
−100
pull
Entries 89
Mean 71.01
Std Dev 45.23
2
1
0
−1
−2

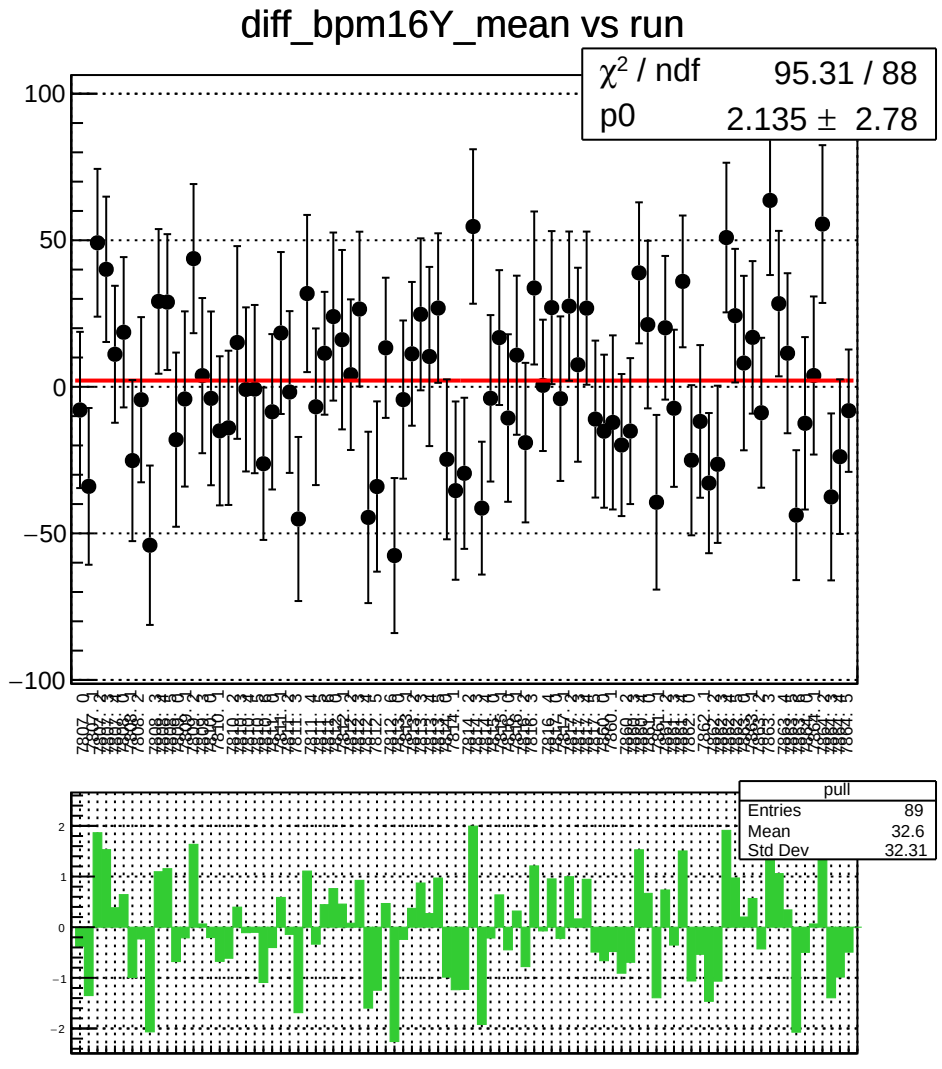

pull1D
Entries 89
Mean −0.01219
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

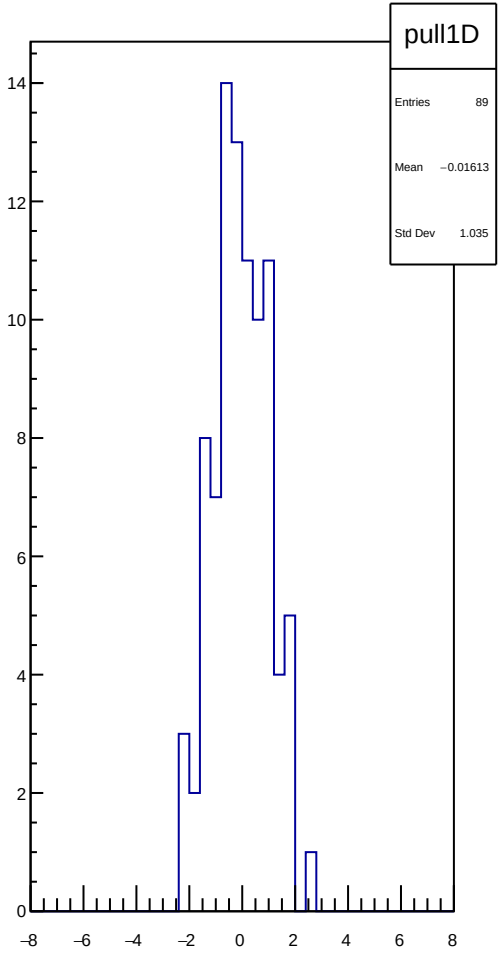

diff_bpm12Y_rms vs run
χ² / ndf 4467 / 88
p0 2996 ± 2.291
3800
3600
3400
3200
3000
2800
2600

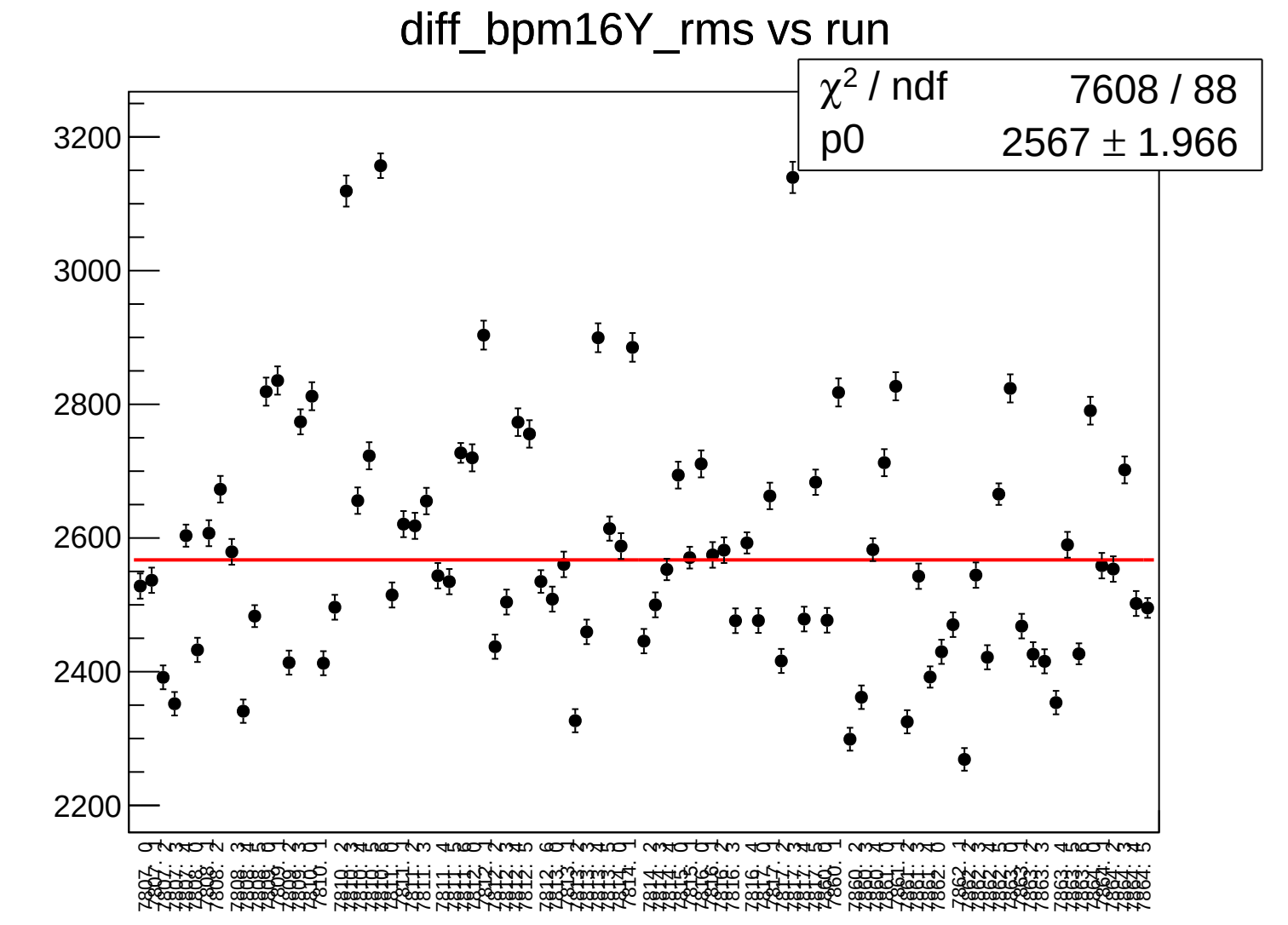

diff_bpm16X_mean vs run
χ² / ndf 94.19 / 88
p0 12.93 ± 25.93
pull
Entries 89
Mean 97.51
Std Dev 18.22

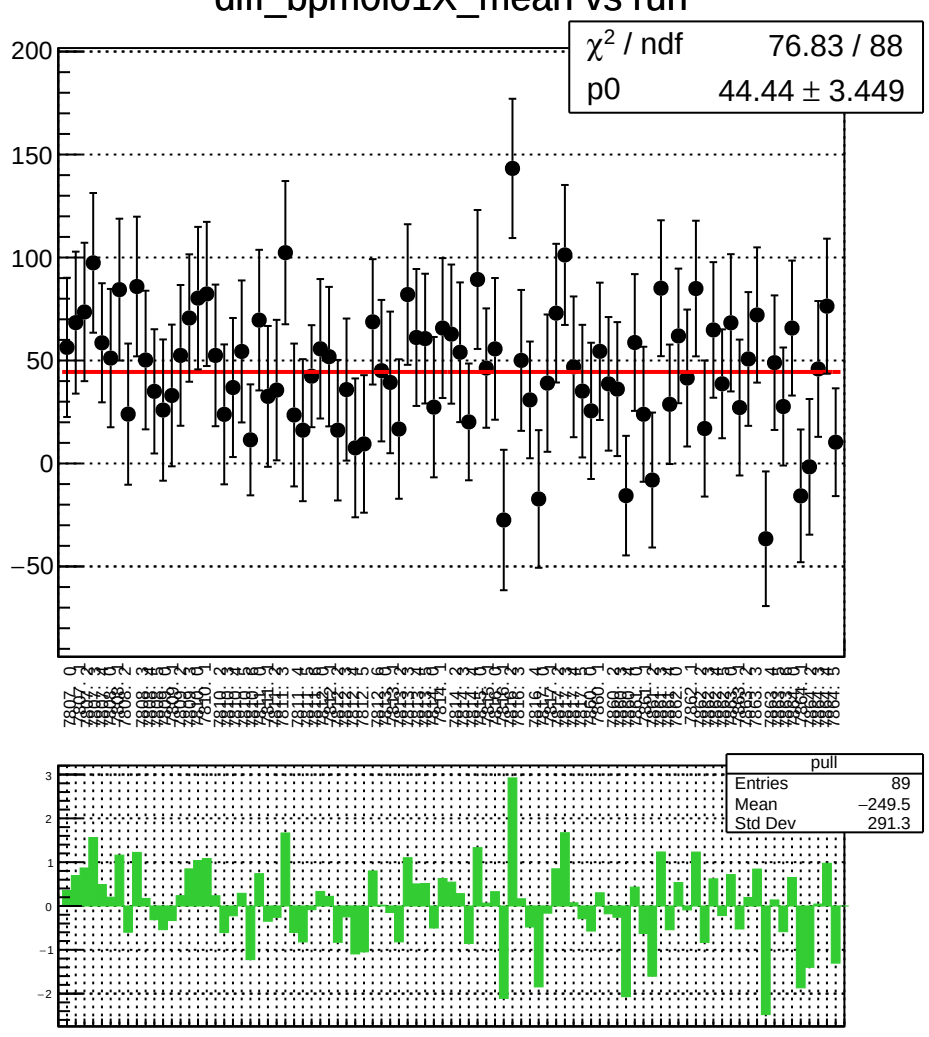

pull1D
Entries 89
Mean 0.01578
Std Dev 1.029

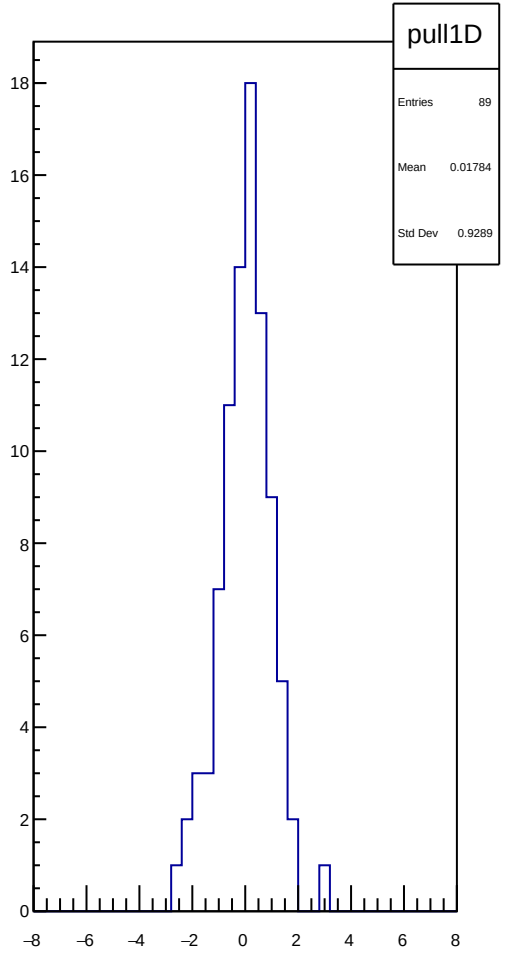

diff_bpm16X_rms vs run
χ² / ndf 4832 / 88
p0 2.397e+04 ± 18.34
28000
27000
26000
25000
24000
23000
22000
21000

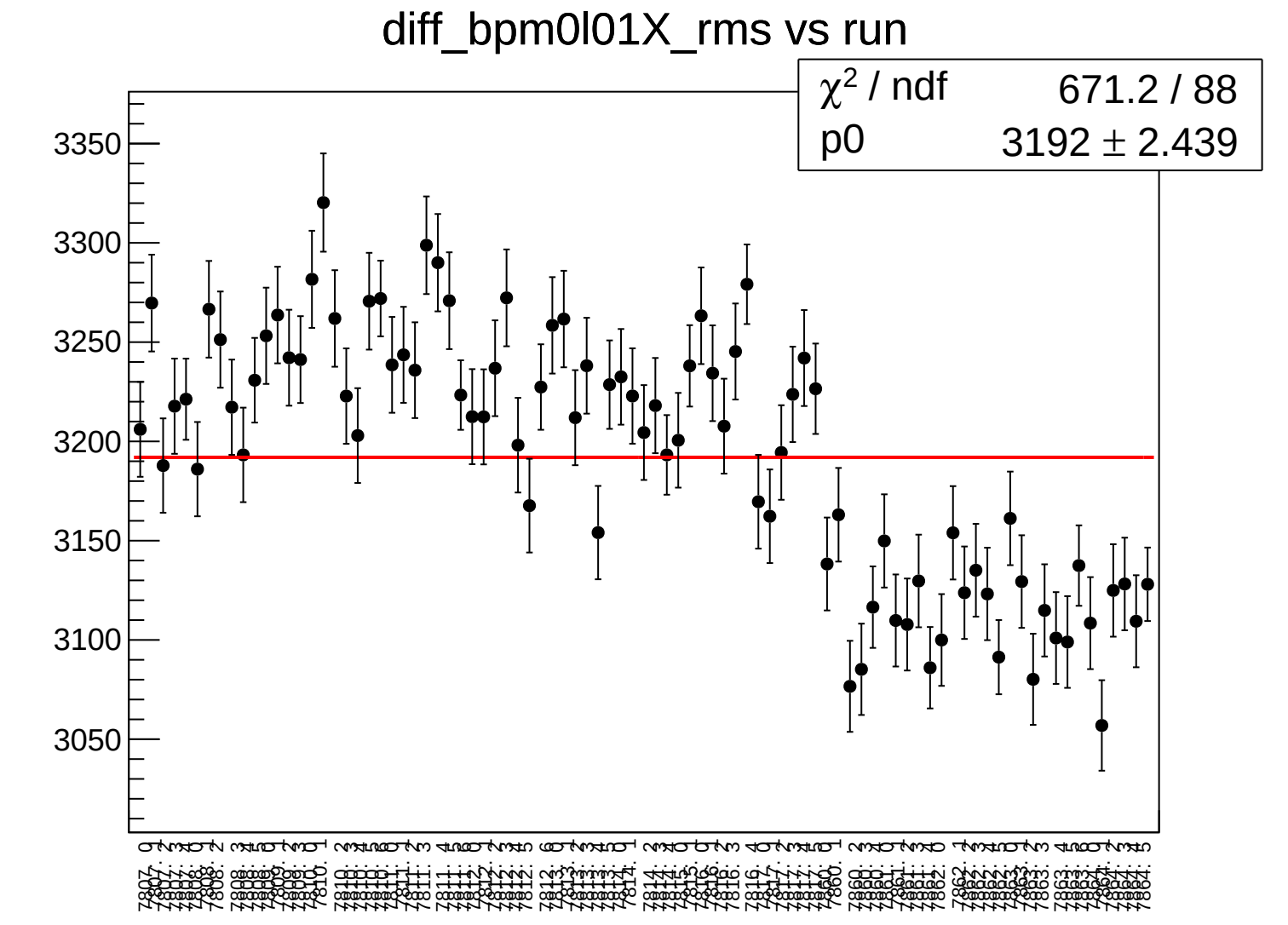

diff_bpm16Y_mean vs run
χ² / ndf 95.31 / 88
p0 2.135 ± 2.78
100
50
0
−50
−100
pull
Entries 89
Mean 32.6
Std Dev 32.31
2
1
0
−1
−2

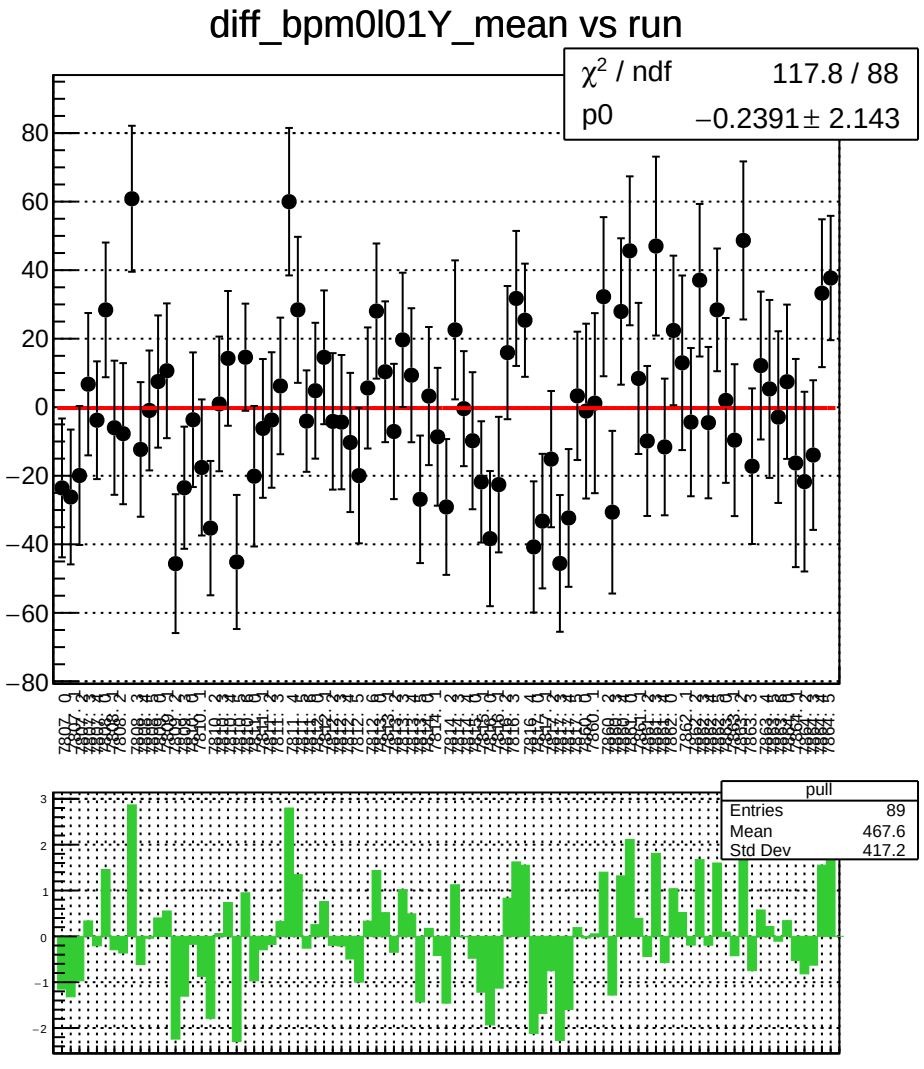

pull1D
Entries 89
Mean −0.01613
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

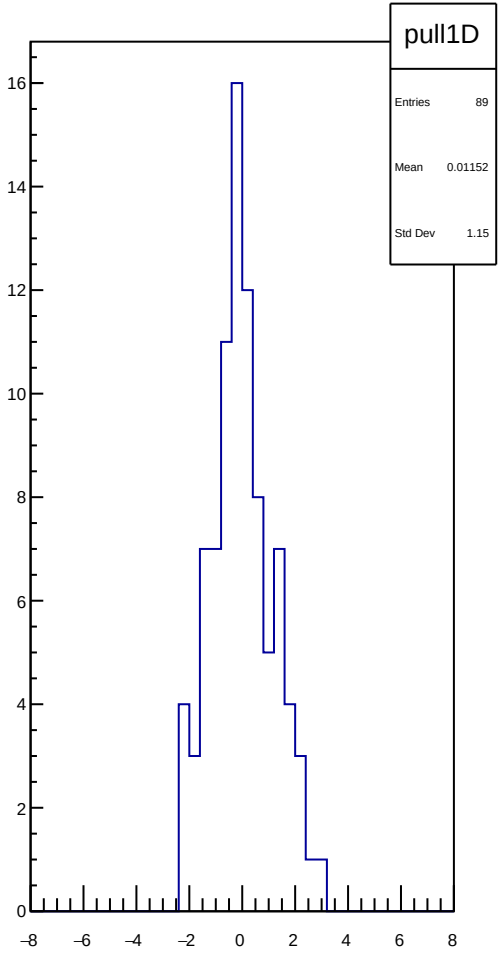

diff_bpm16Y_rms vs run
χ² / ndf 7608 / 88
p0 2567 ± 1.966
3200
3000
2800
2600
2400
2200

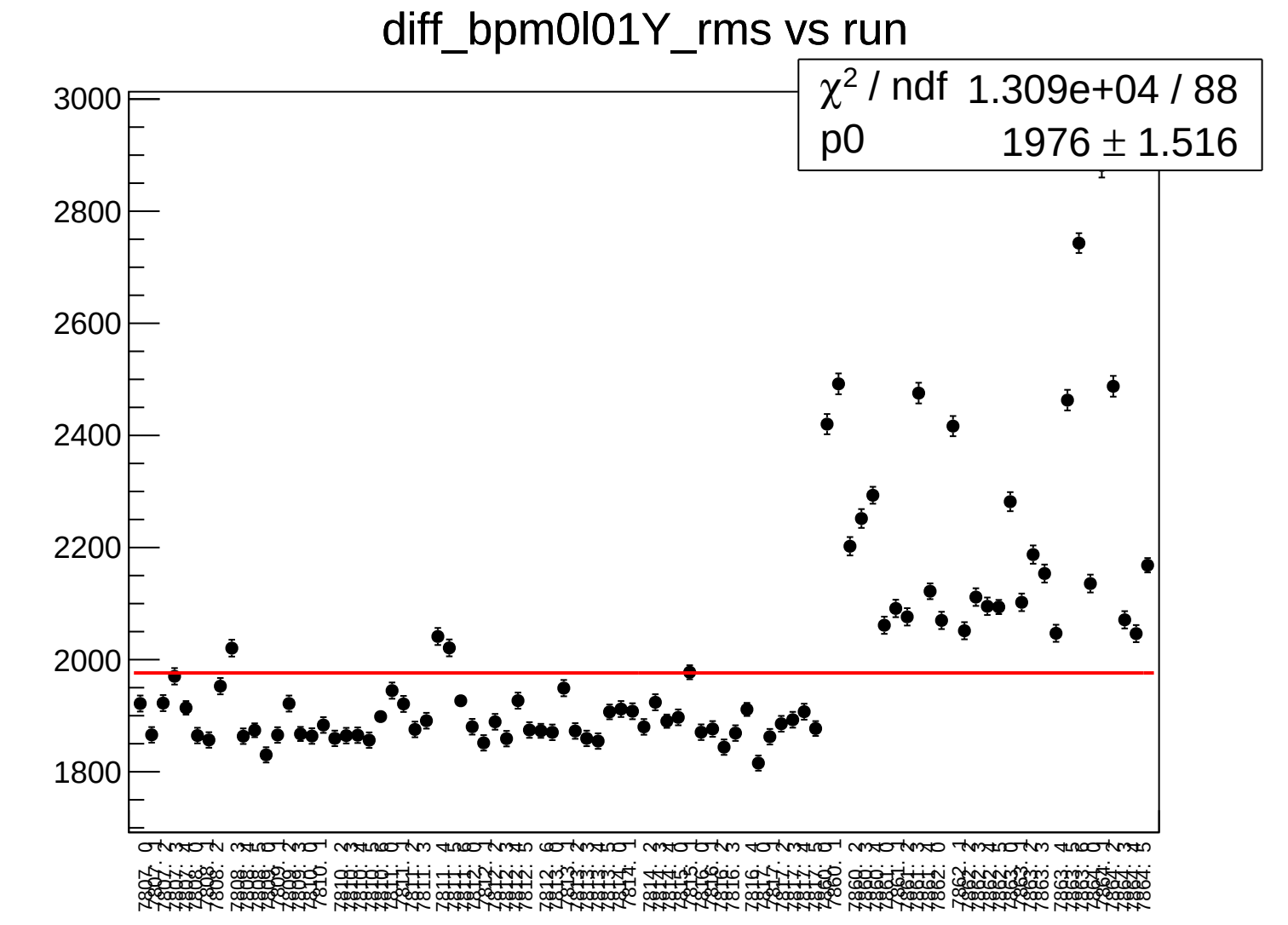

diff_bpm0l01X_mean vs run
χ^2 / ndf 76.83 / 88
p0 44.44 ± 3.449
200
150
100
50
0
−50
pull
Entries 89
Mean −249.5
Std Dev 291.3
3
2
1
0
−1
−2

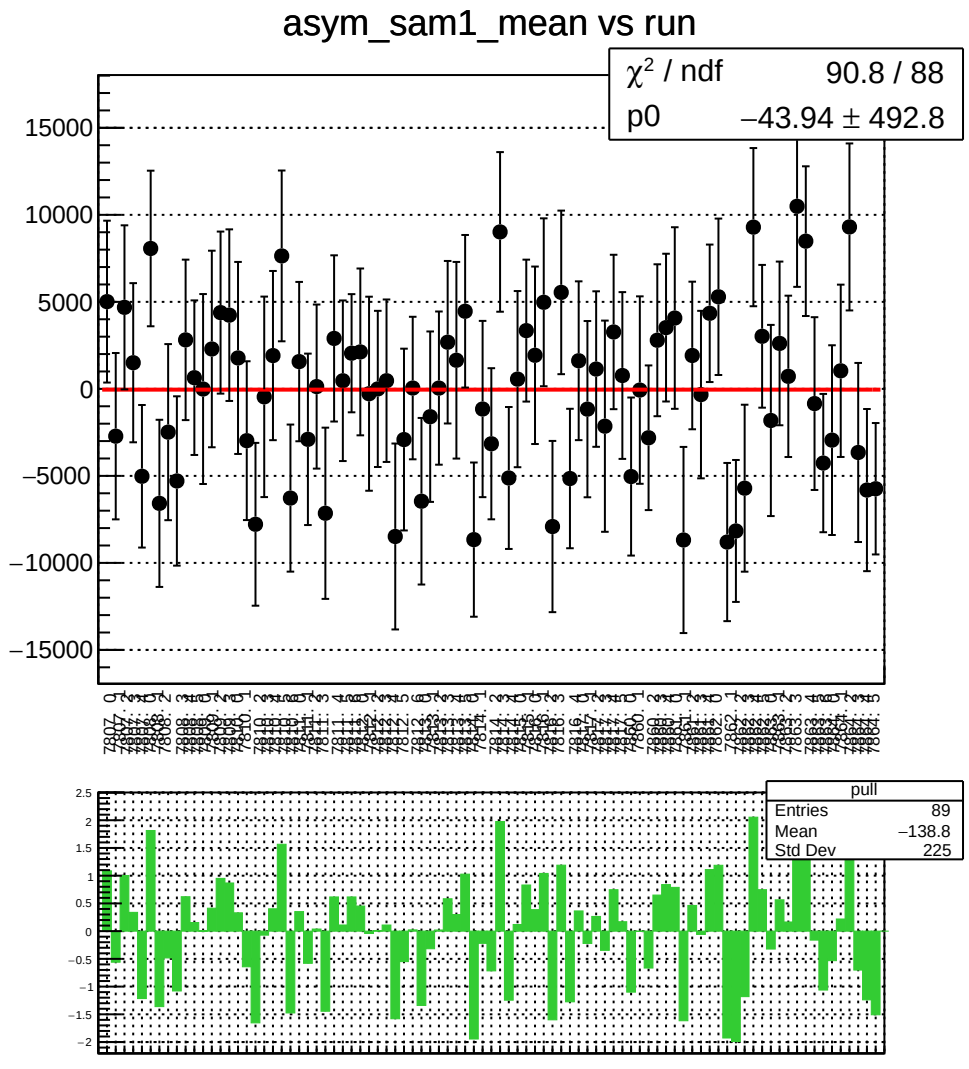

pull1D
Entries 89
Mean 0.01784
Std Dev 0.9289
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

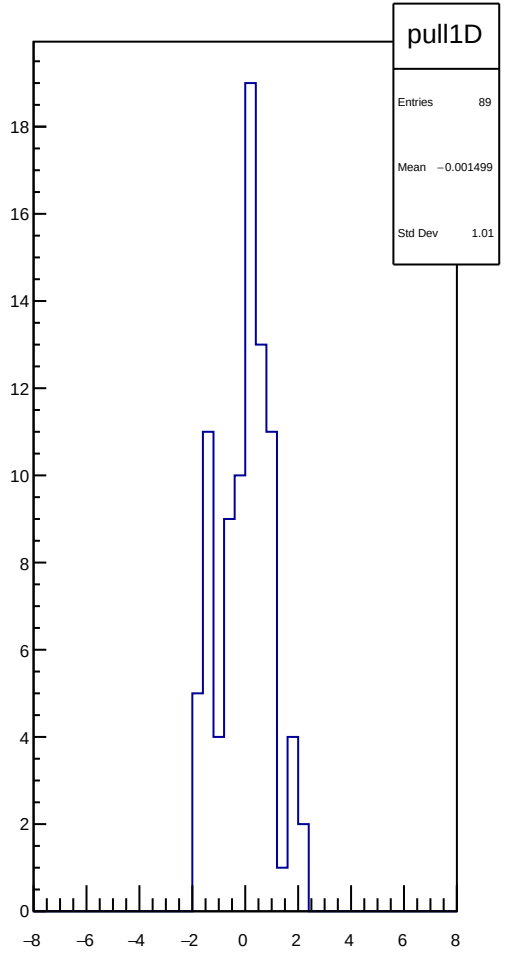

diff_bpm0l01X_rms vs run
χ² / ndf 671.2 / 88
p0 3192 ± 2.439
3350
3300
3250
3200
3150
3100
3050

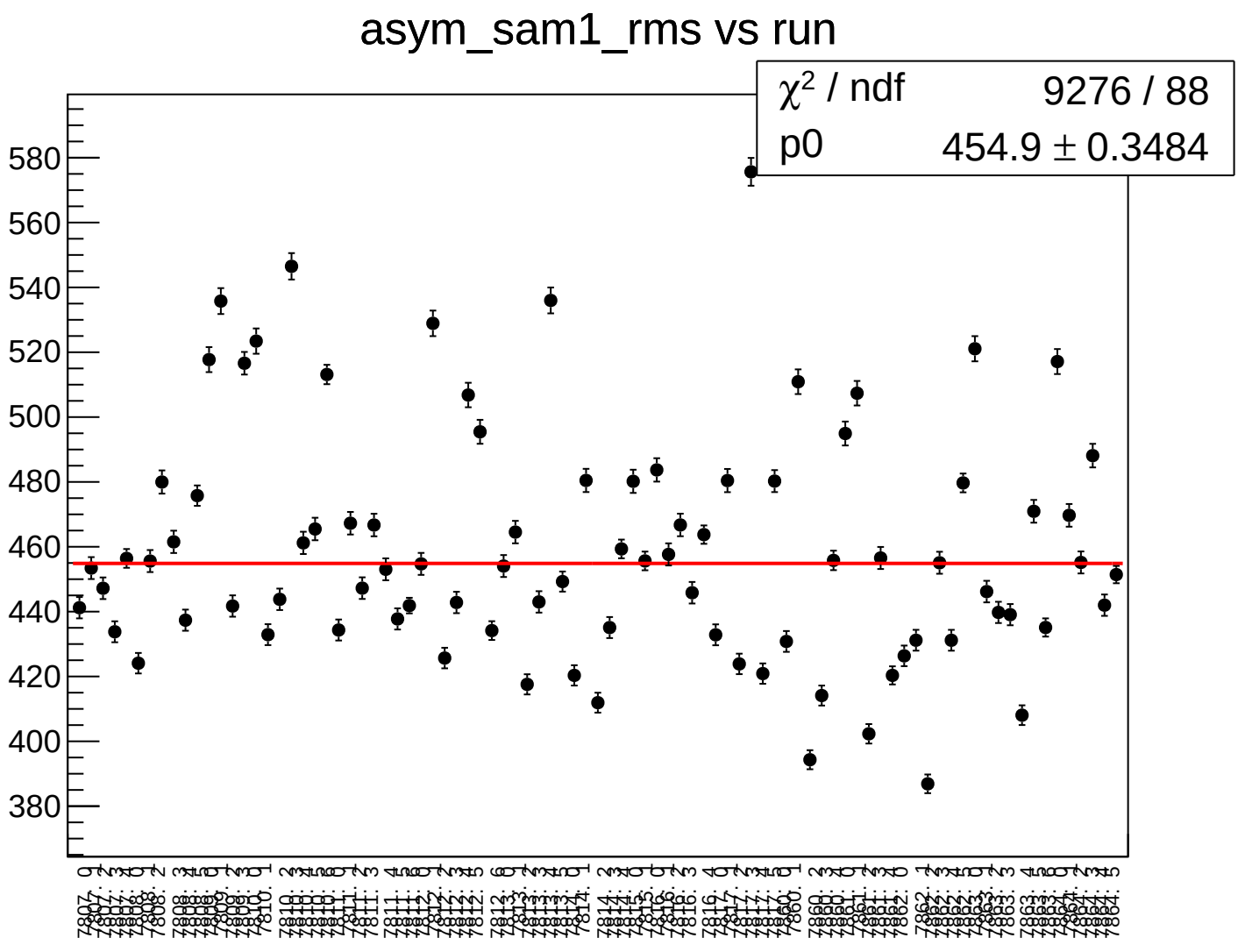

diff_bpm0l01Y_mean vs run
χ² / ndf 117.8 / 88
p0 −0.2391 ± 2.143
pull
Entries 89
Mean 467.6
Std Dev 417.2

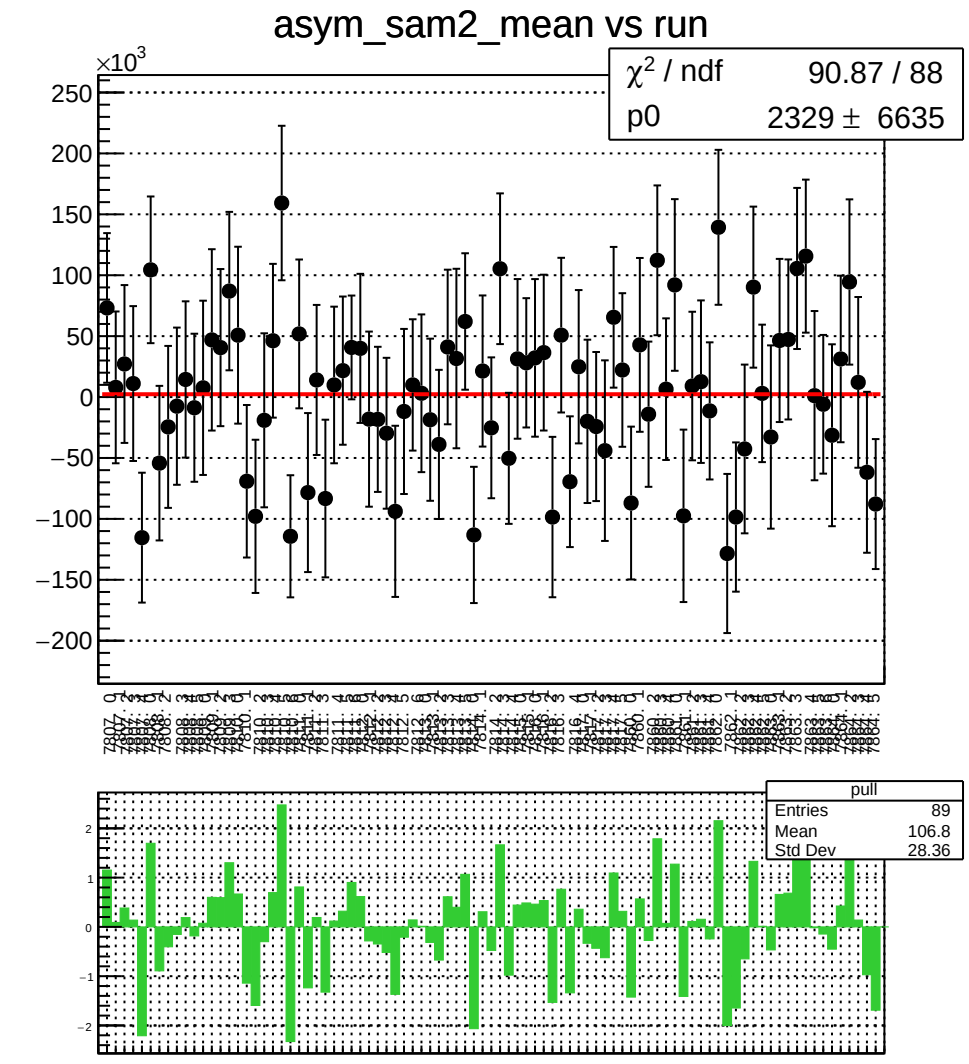

pull1D
Entries 89
Mean 0.01152
Std Dev 1.15

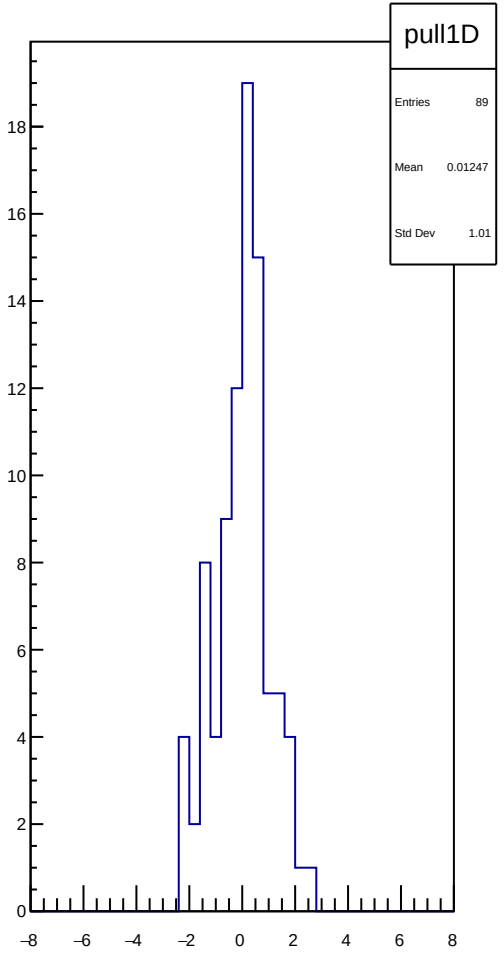

diff_bpm0l01Y_rms vs run
χ² / ndf 1.309e+04 / 88
p0 1976 ± 1.516
3000
2800
2600
2400
2200
2000
1800

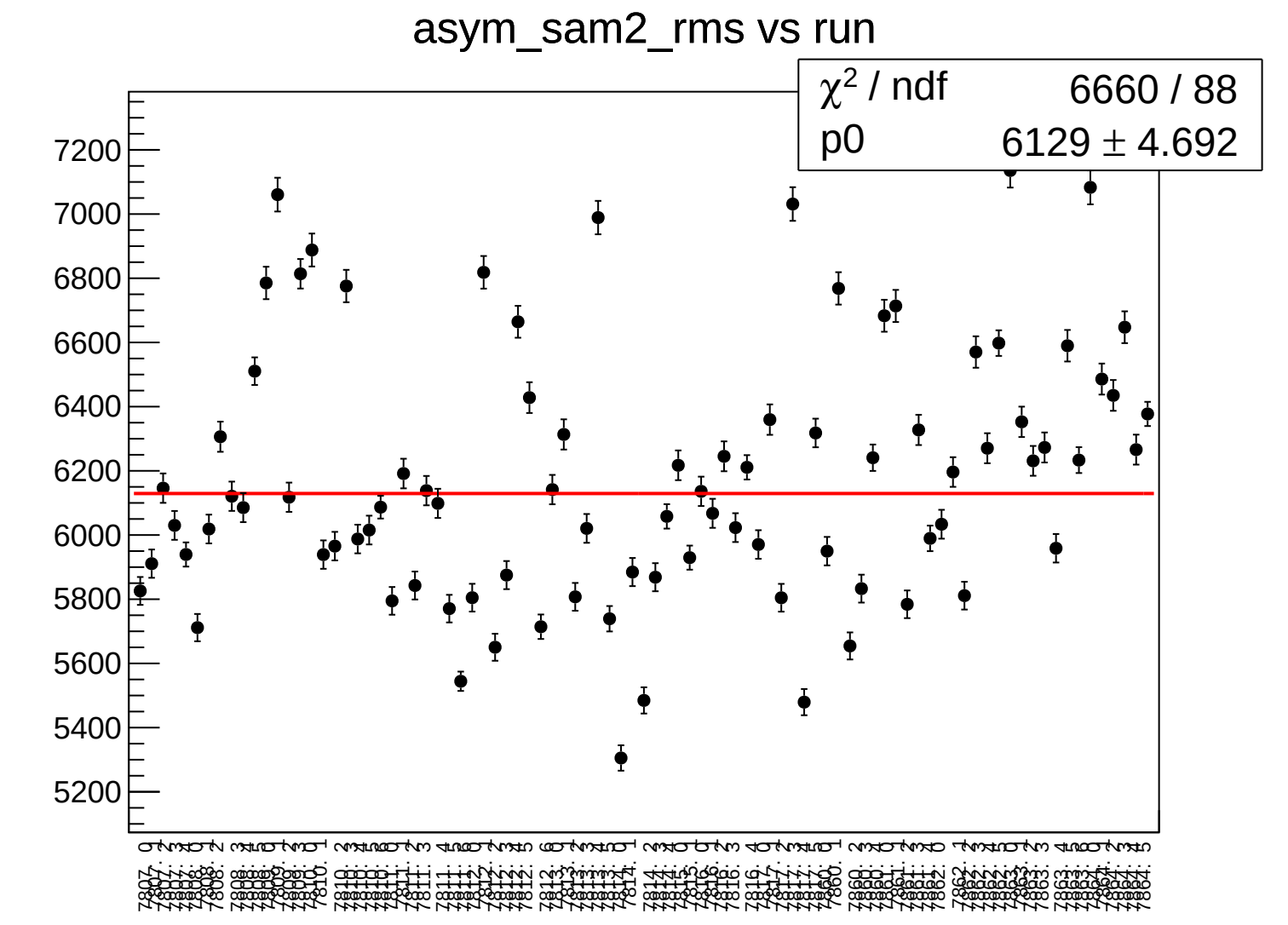

asym_sam1_mean vs run
χ² / ndf 90.8 / 88
p0 −43.94 ± 492.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −138.8
Std Dev 225
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

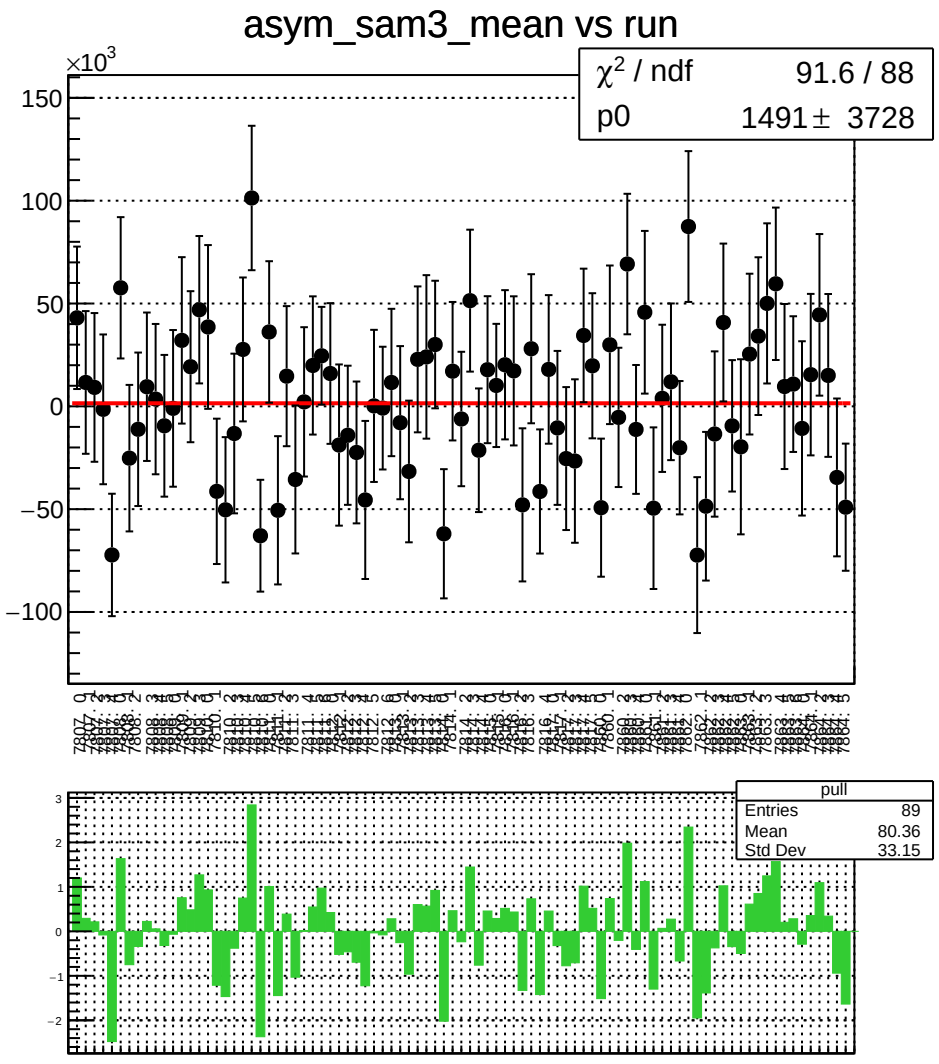

pull1D
Entries 89
Mean −0.001499
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

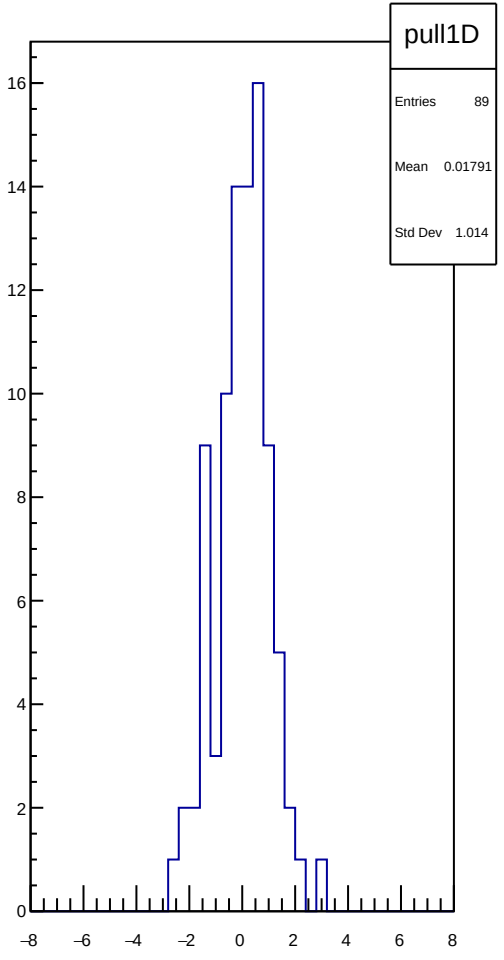

asym_sam1_rms vs run
χ² / ndf 9276 / 88
p0 454.9 ± 0.3484
580
560
540
520
500
480
460
440
420
400
380

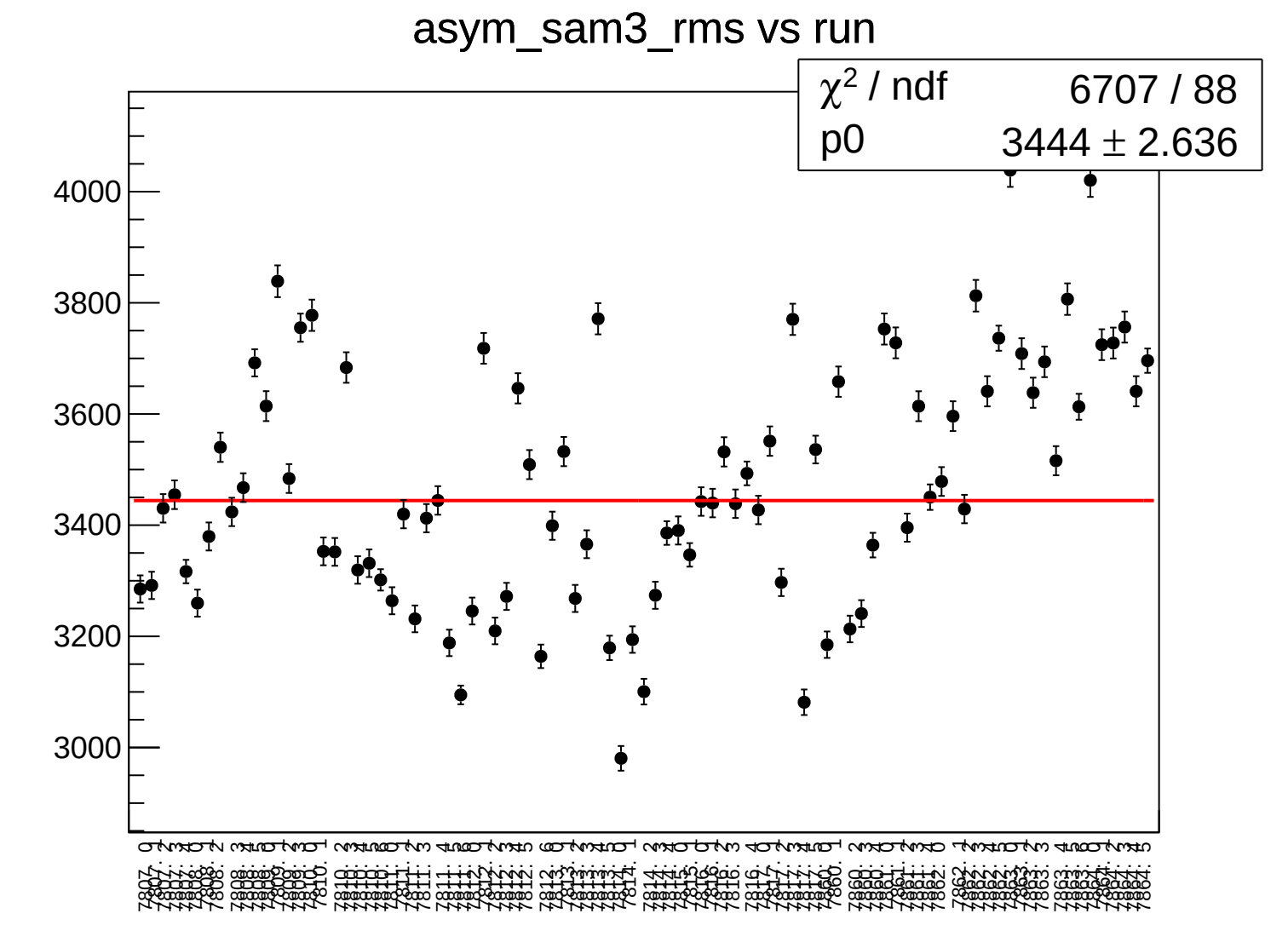

asym_sam2_mean vs run
×10^3
χ^2 / ndf 90.87 / 88
p0 2329 ± 6635
pull
Entries 89
Mean 106.8
Std Dev 28.36

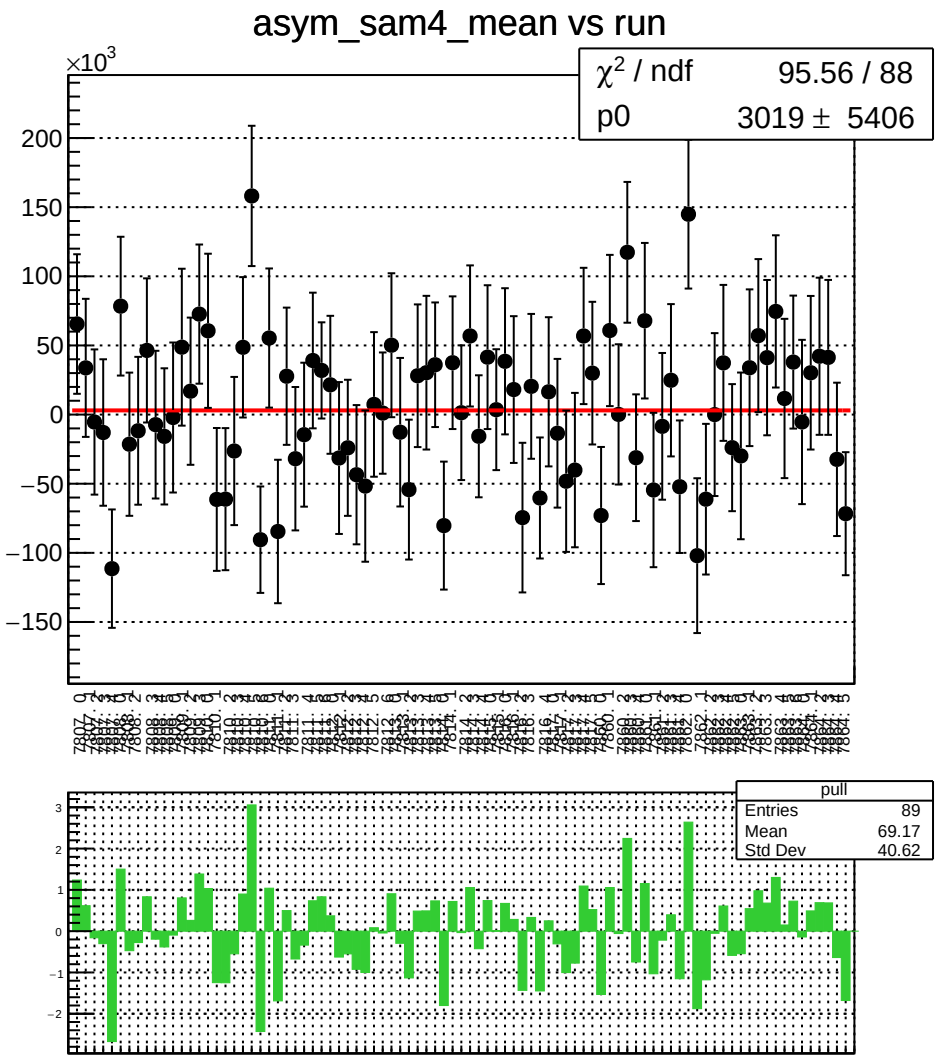

pull1D
Entries 89
Mean 0.01247
Std Dev 1.01

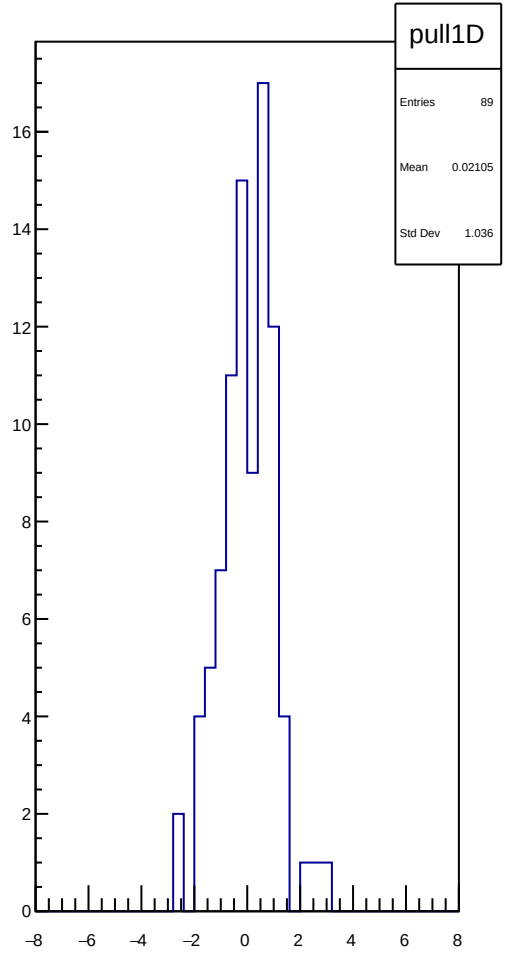

asym_sam2_rms vs run
χ² / ndf 6660 / 88
p0 6129 ± 4.692
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

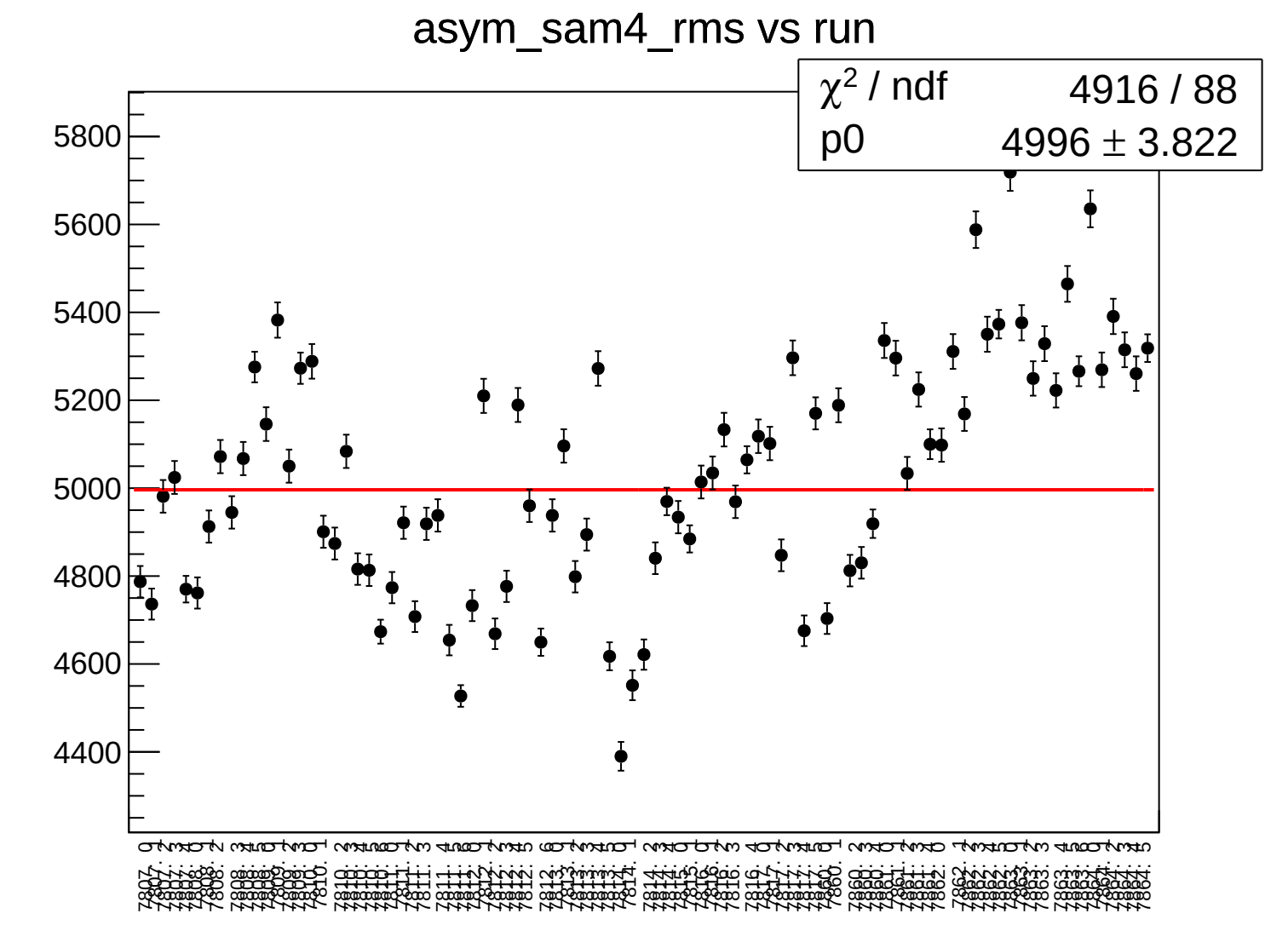

asym_sam3_mean vs run
×10^3
χ² / ndf 91.6 / 88
p0 1491 ± 3728
150
100
50
0
−50
−100
pull
Entries 89
Mean 80.36
Std Dev 33.15
3
2
1
0
−1
−2

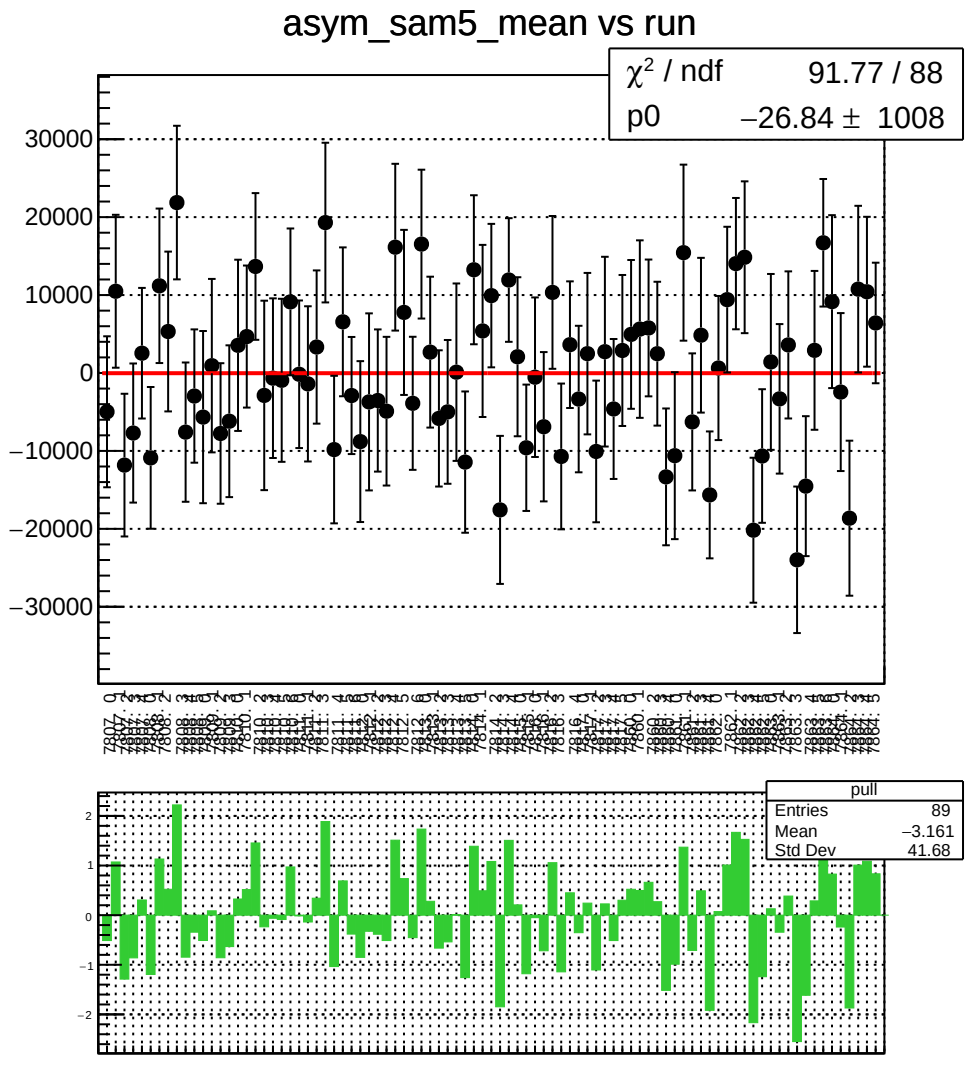

pull1D
Entries 89
Mean 0.01791
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

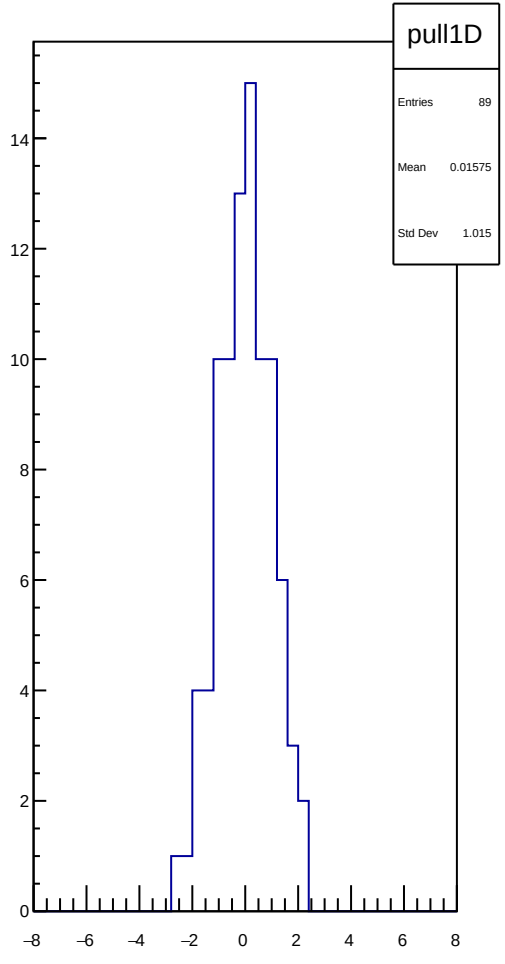

asym_sam3_rms vs run
χ² / ndf 6707 / 88
p0 3444 ± 2.636
4000
3800
3600
3400
3200
3000

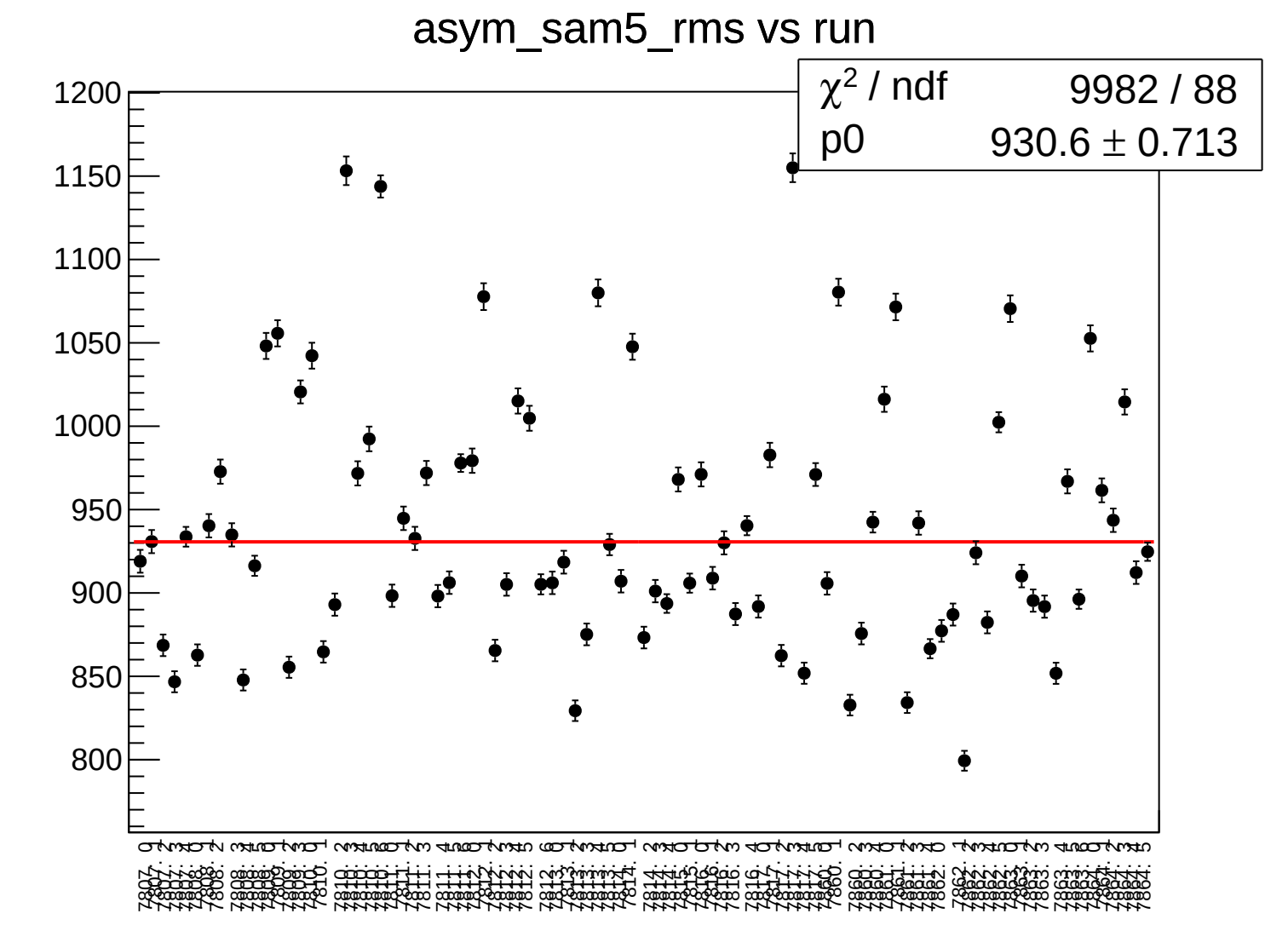

asym_sam4_mean vs run
×10^3
χ² / ndf 95.56 / 88
p0 3019 ± 5406
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 69.17
Std Dev 40.62
3
2
1
0
−1
−2

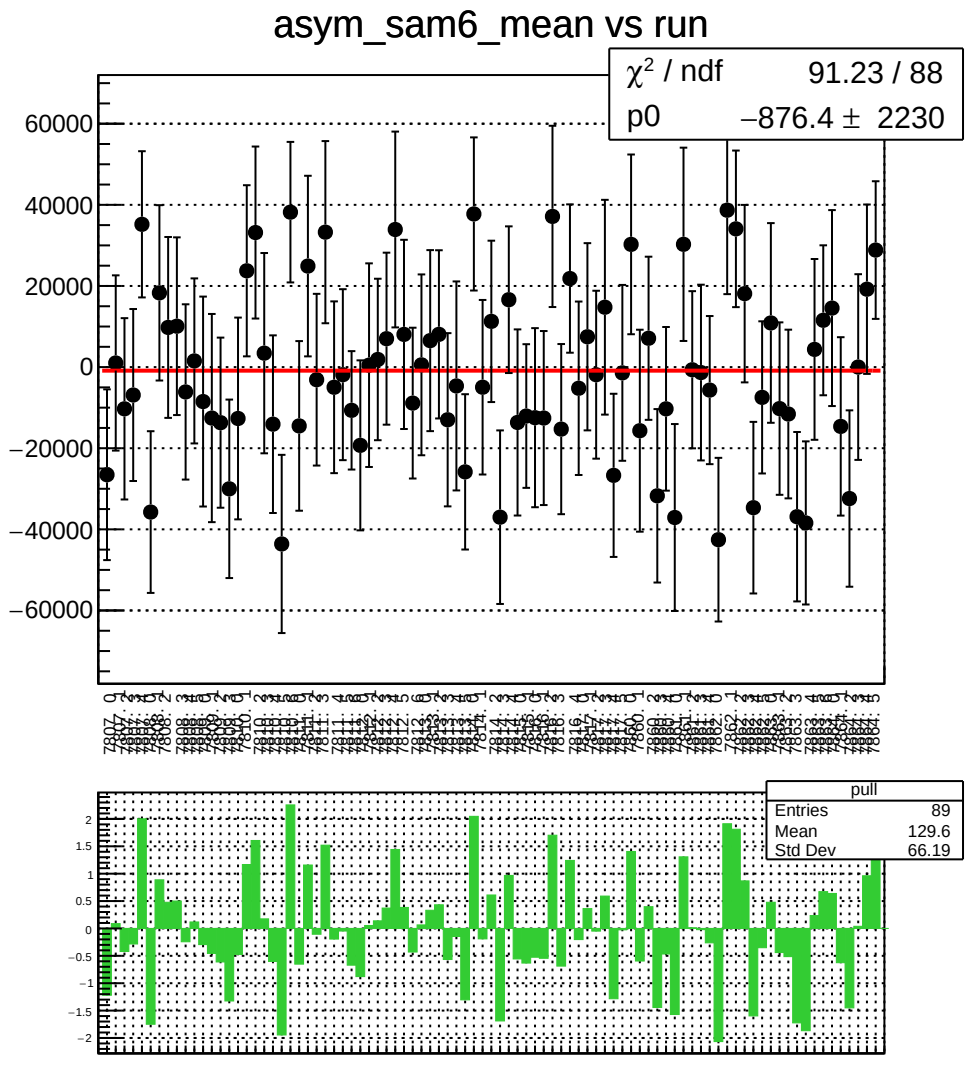

pull1D
Entries 89
Mean 0.02105
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

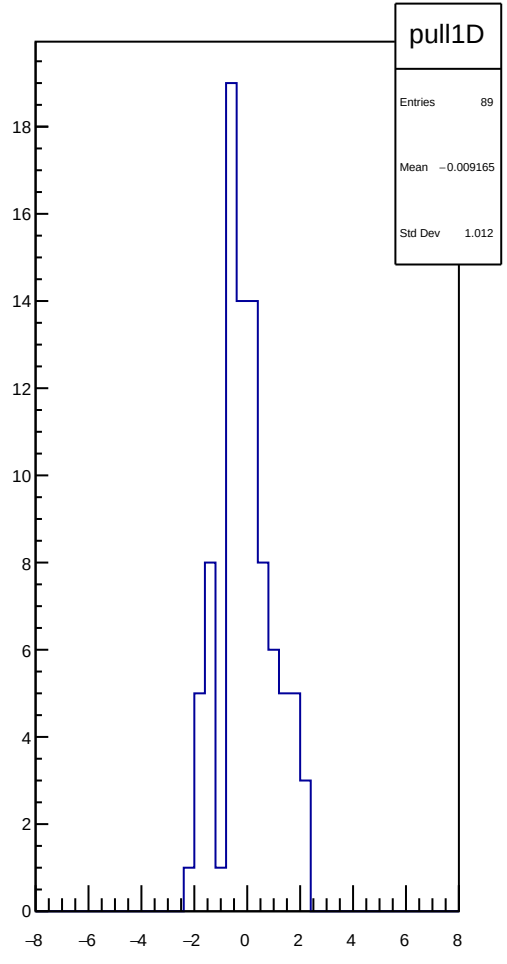

asym_sam4_rms vs run
χ² / ndf 4916 / 88
p0 4996 ± 3.822
5800
5600
5400
5200
5000
4800
4600
4400

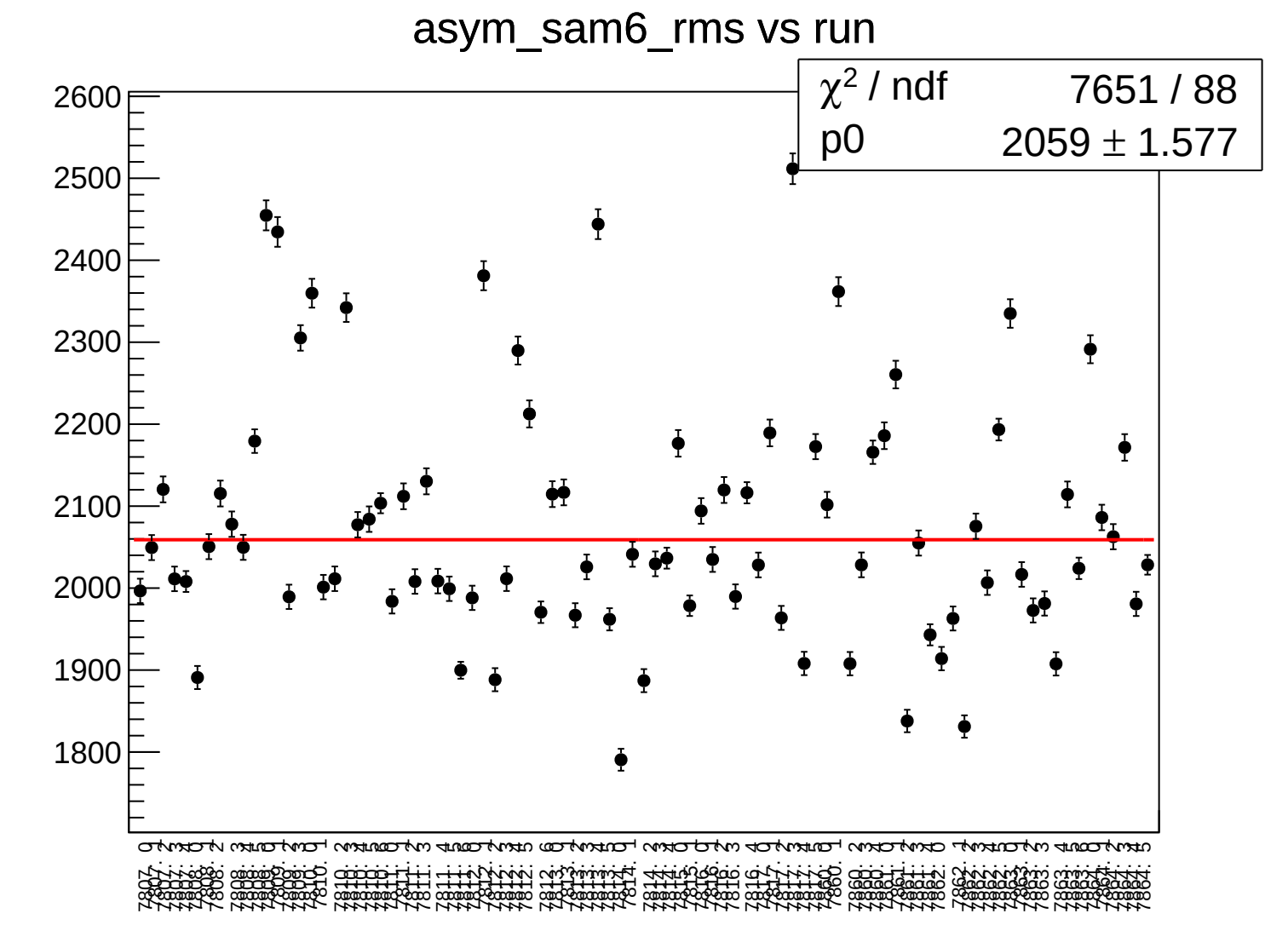

asym_sam5_mean vs run
χ² / ndf 91.77 / 88
p0 −26.84 ± 1008
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −3.161
Std Dev 41.68
2
1
0
−1
−2

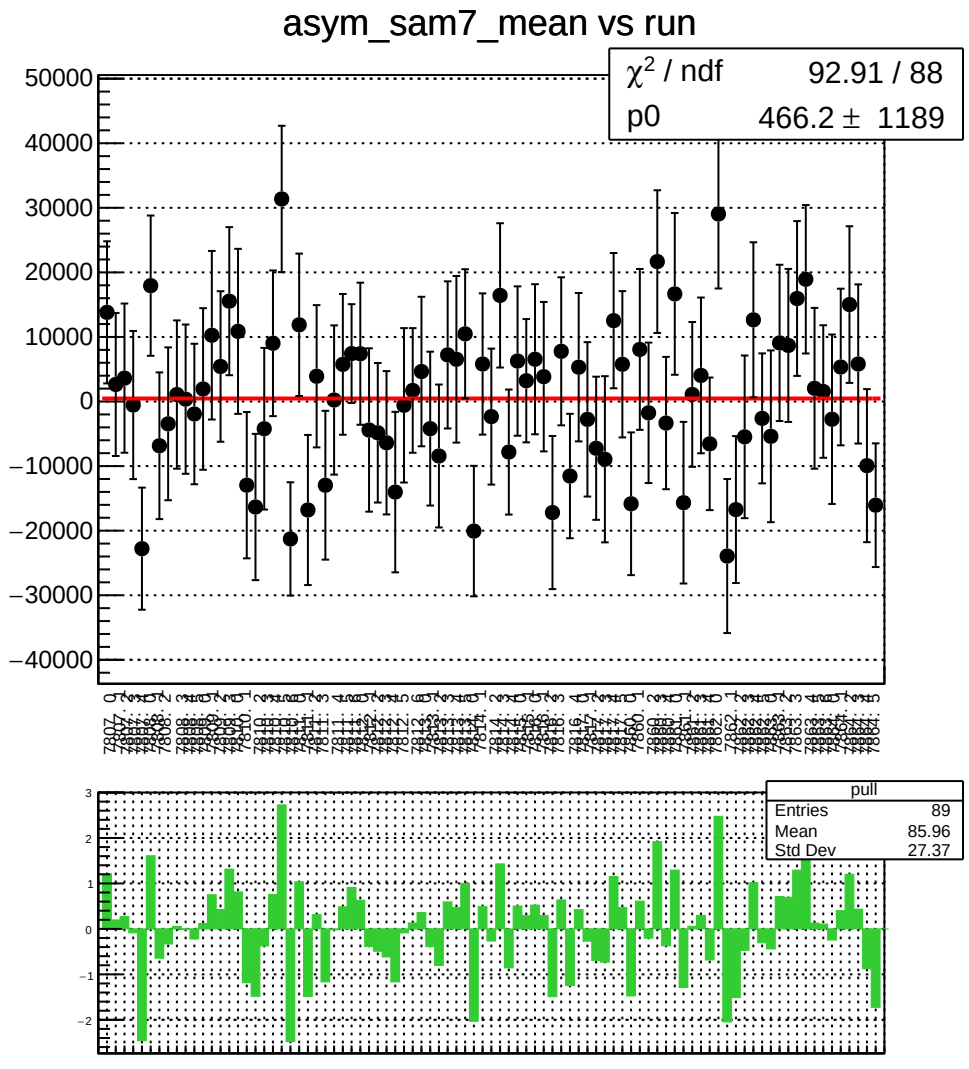

pull1D
Entries 89
Mean 0.01575
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

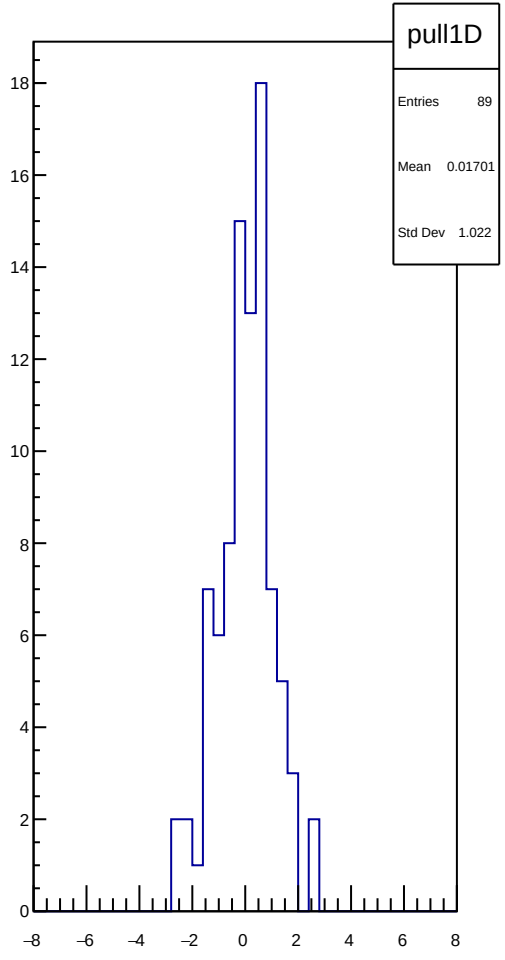

asym_sam5_rms vs run
χ^2 / ndf 9982 / 88
p0 930.6 ± 0.713
1200
1150
1100
1050
1000
950
900
850
800

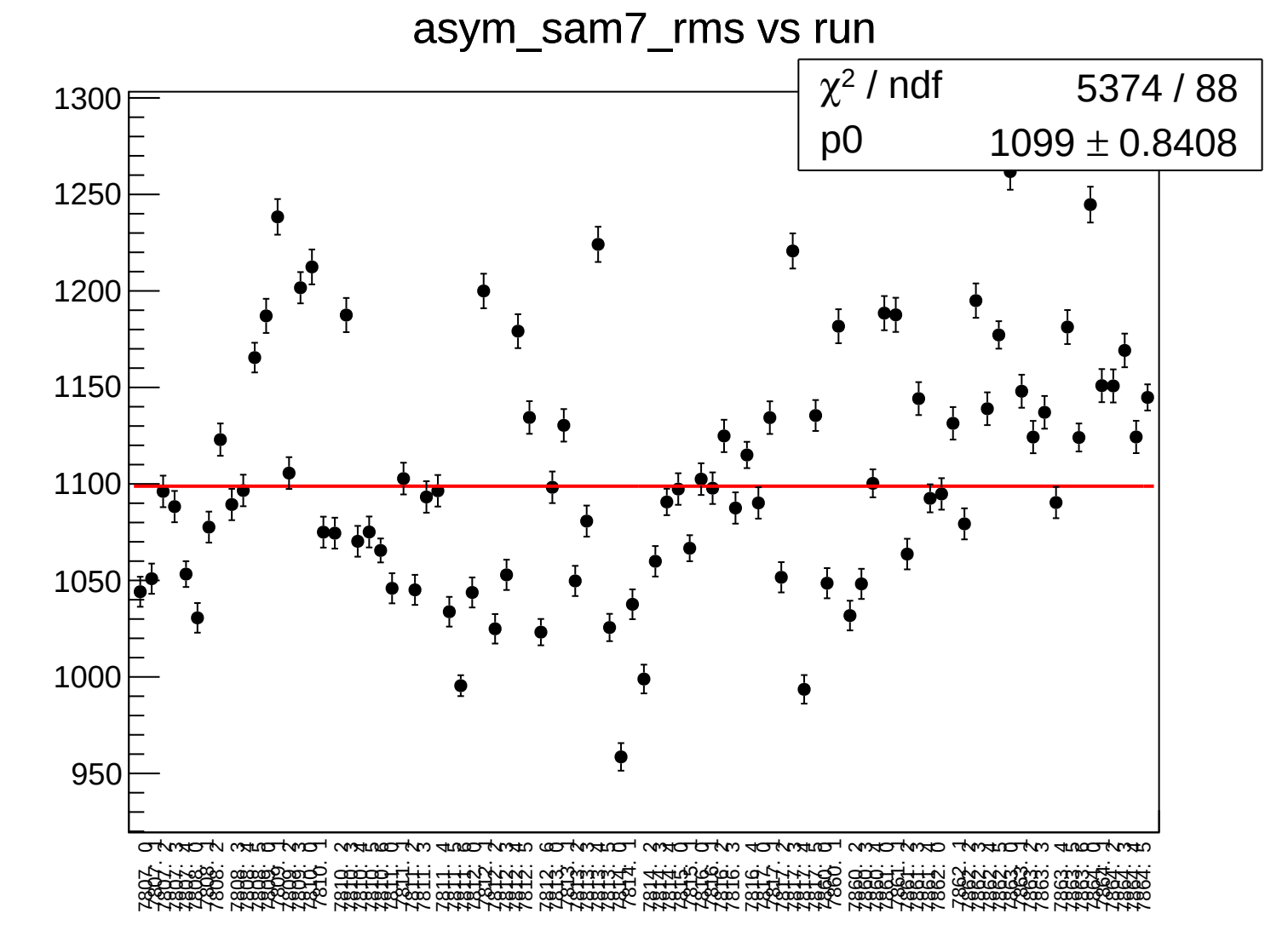

asym_sam6_mean vs run
χ² / ndf 91.23 / 88
p0 −876.4 ± 2230
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 129.6
Std Dev 66.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

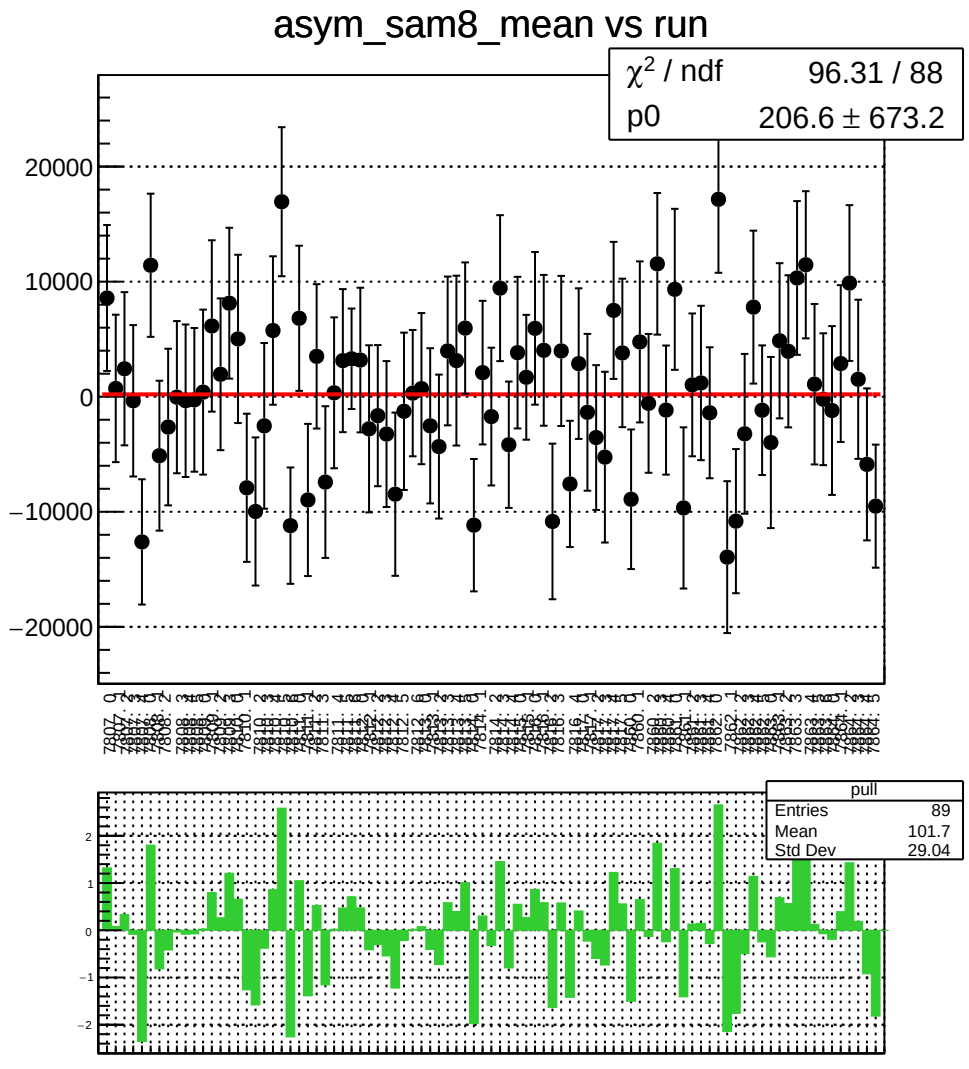

pull1D
Entries 89
Mean −0.009165
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

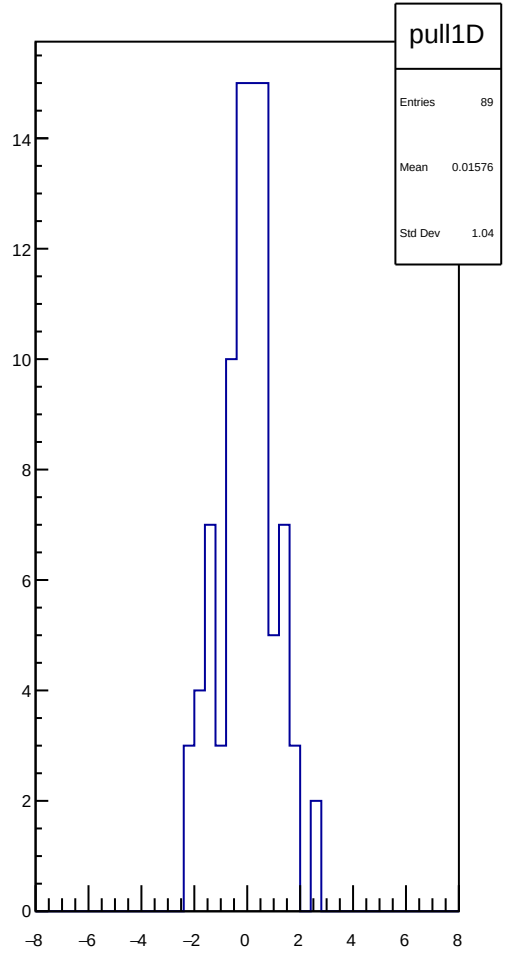

asym_sam6_rms vs run
χ² / ndf 7651 / 88
p0 2059 ± 1.577
2600
2500
2400
2300
2200
2100
2000
1900
1800

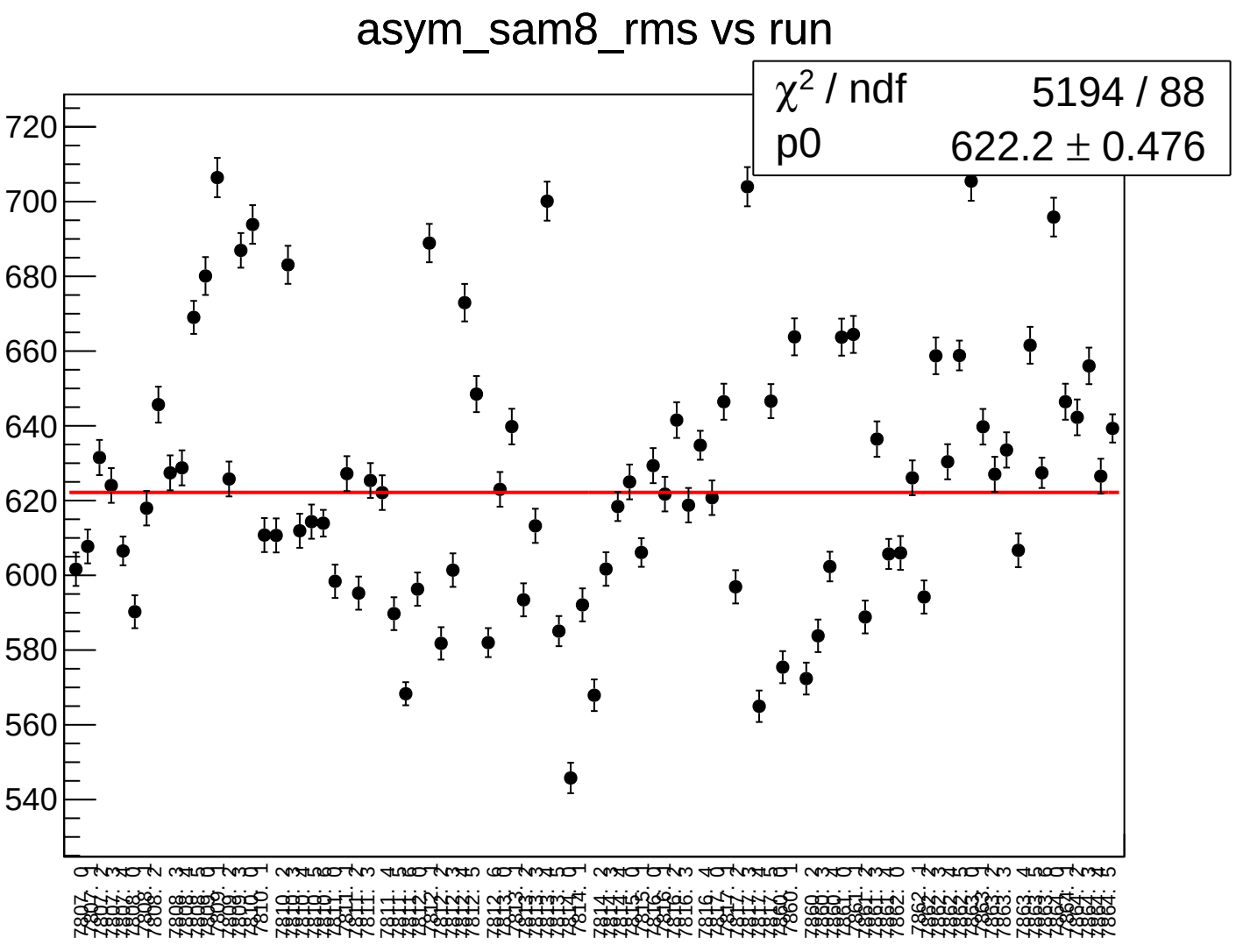

asym_sam7_mean vs run
χ² / ndf 92.91 / 88
p0 466.2 ± 1189
pull
Entries 89
Mean 85.96
Std Dev 27.37

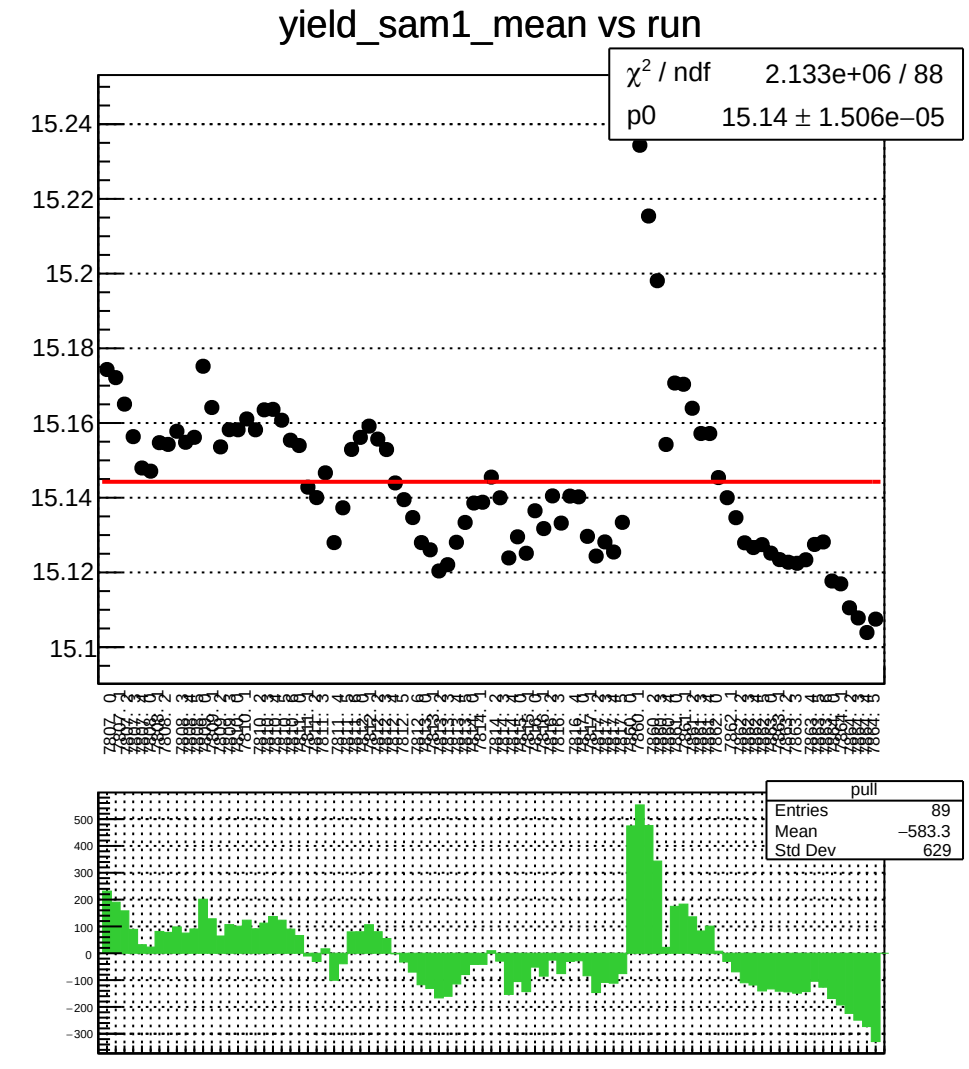

pull1D
Entries 89
Mean 0.01701
Std Dev 1.022

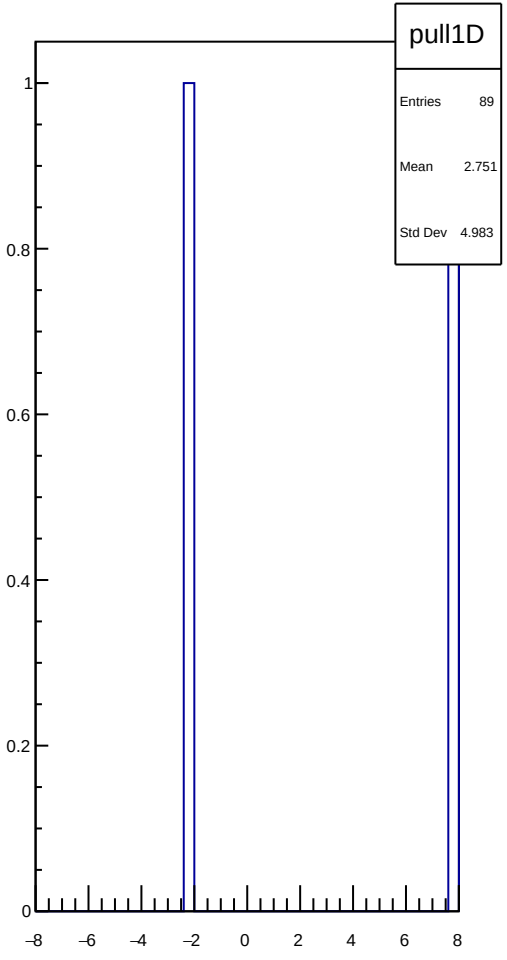

asym_sam7_rms vs run
χ² / ndf 5374 / 88
p0 1099 ± 0.8408
1300
1250
1200
1150
1100
1050
1000
950

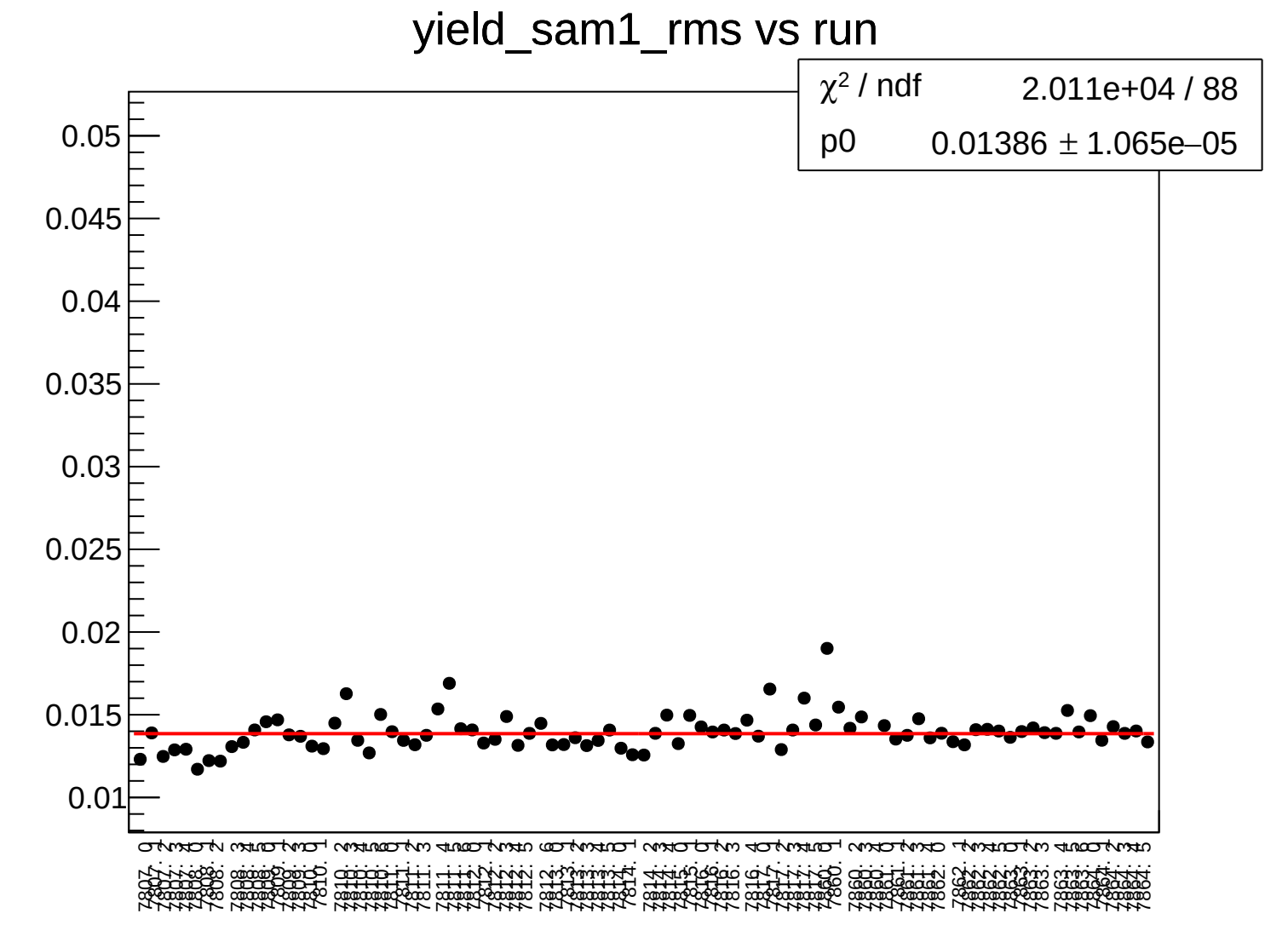

asym_sam8_mean vs run
χ² / ndf 96.31 / 88
p0 206.6 ± 673.2
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 101.7
Std Dev 29.04
2
1
0
−1
−2

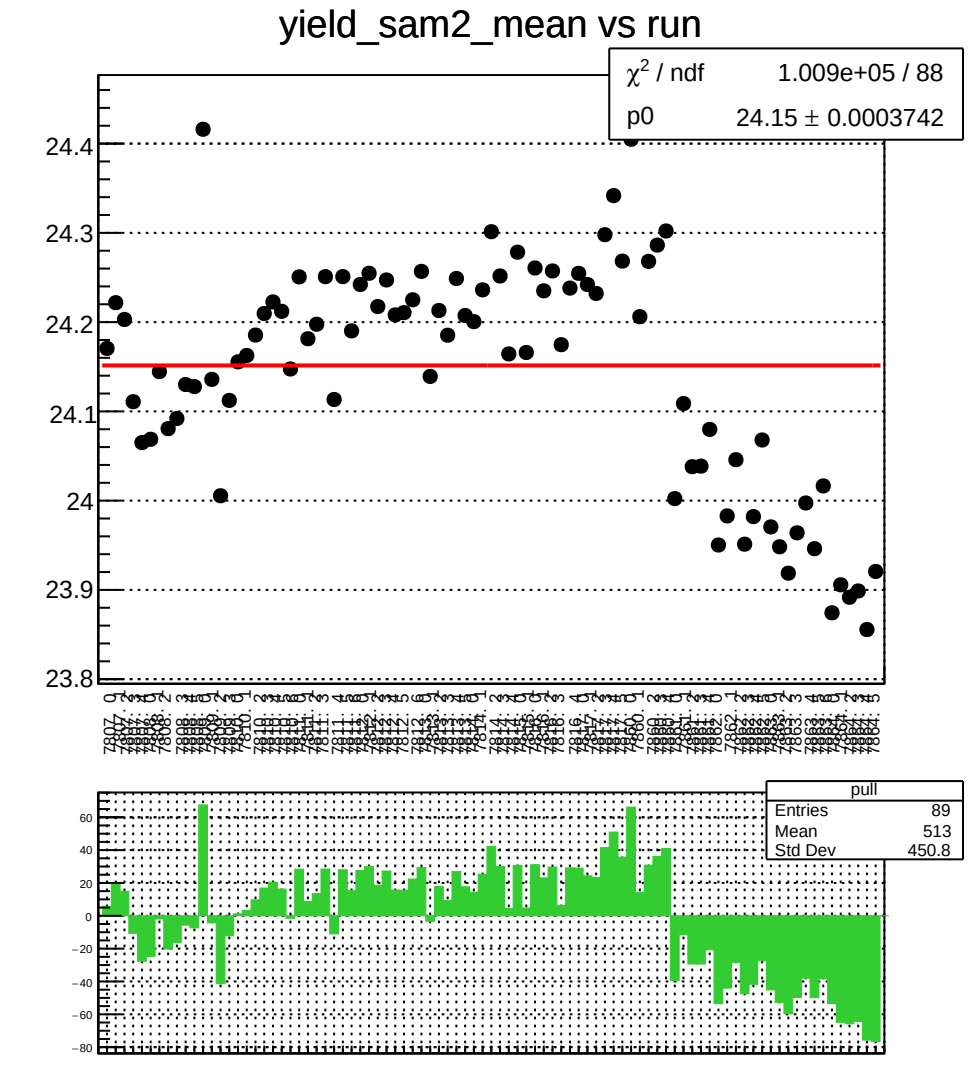

pull1D
Entries 89
Mean 0.01576
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

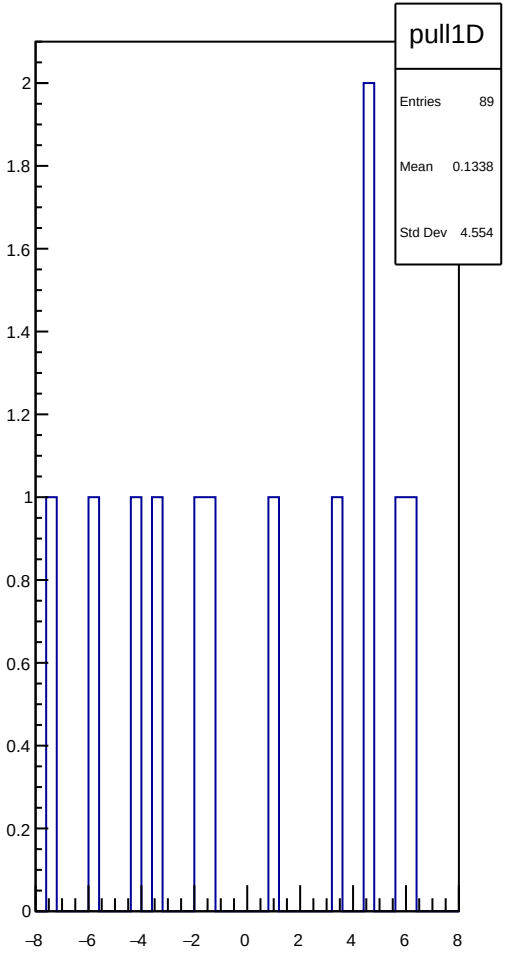

asym_sam8_rms vs run
χ² / ndf 5194 / 88
p0 622.2 ± 0.476
720
700
680
660
640
620
600
580
560
540

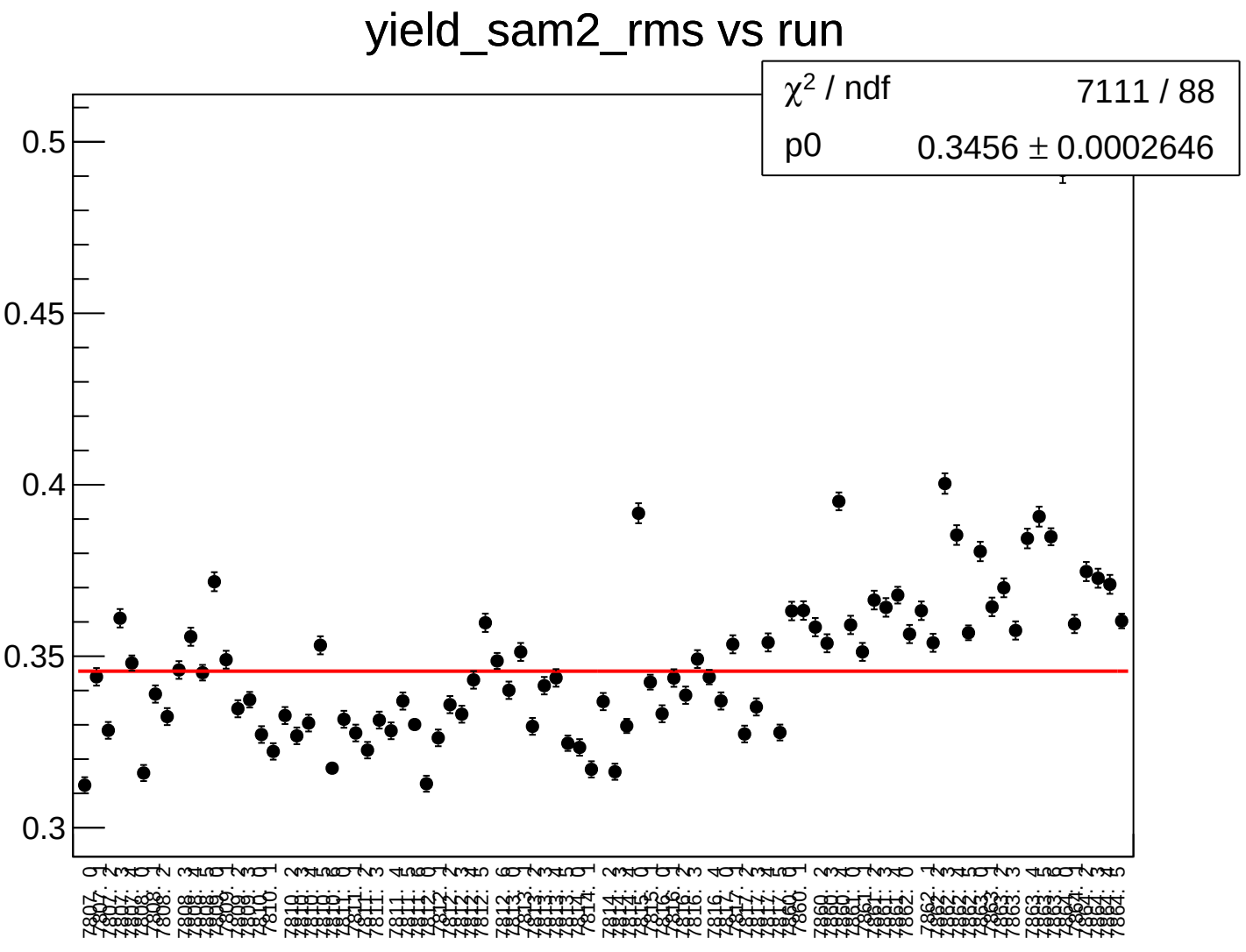

yield_sam1_mean vs run
χ² / ndf 2.133e+06 / 88
p0 15.14 ± 1.506e−05
15.24
15.22
15.2
15.18
15.16
15.14
15.12
15.1
pull
Entries 89
Mean −583.3
Std Dev 629
500
400
300
200
100
0
−100
−200
−300

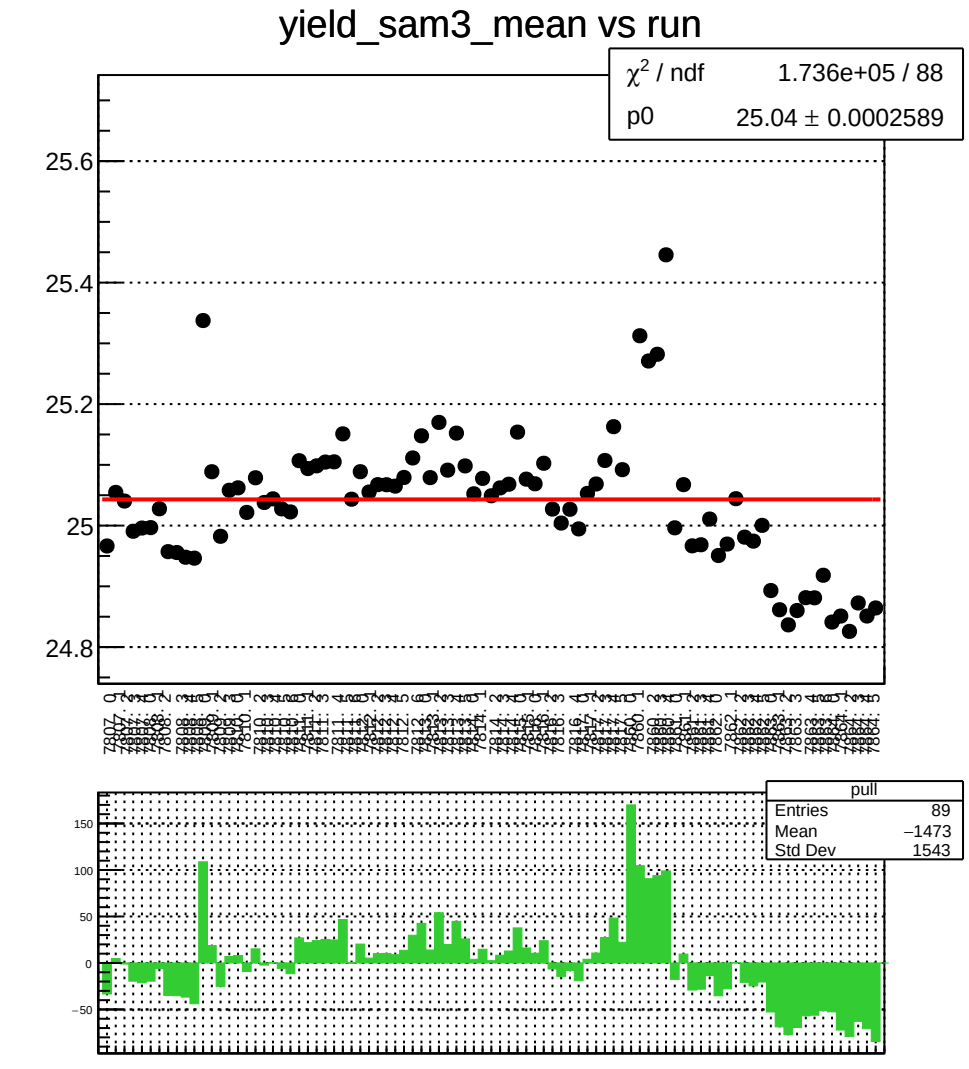

pull1D
Entries 89
Mean 2.751
Std Dev 4.983
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

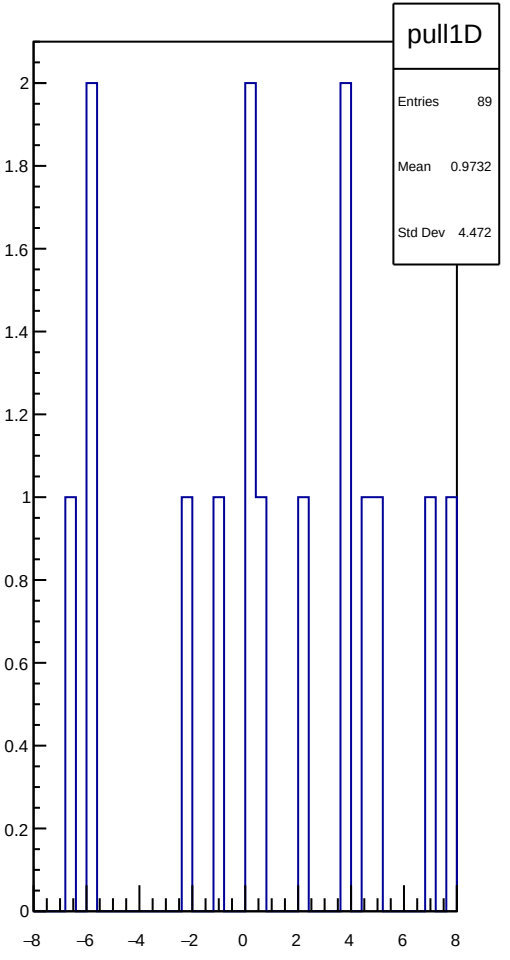

yield_sam1_rms vs run
χ² / ndf 2.011e+04 / 88
p0 0.01386 ± 1.065e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

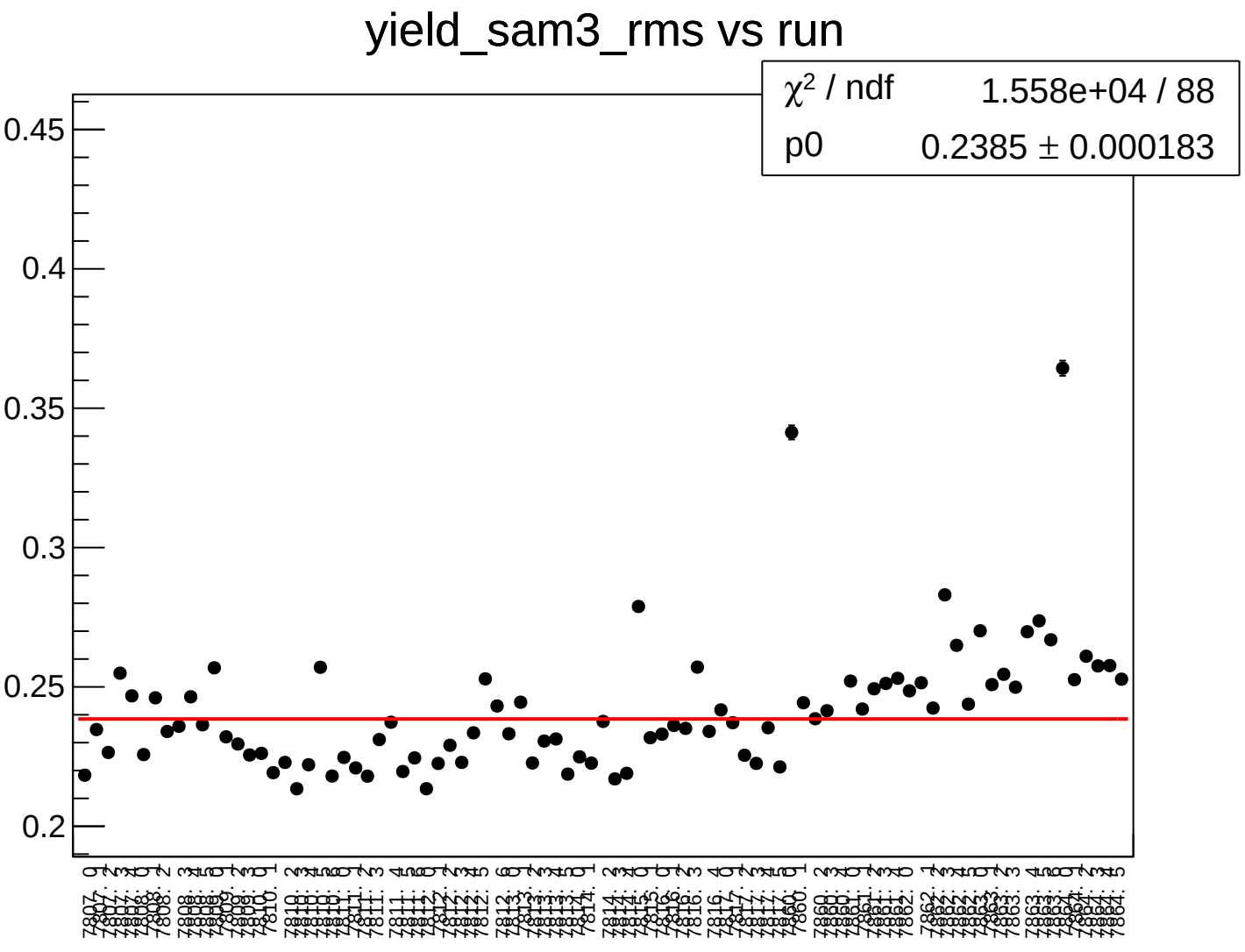

yield_sam2_mean vs run
χ² / ndf 1.009e+05 / 88
p0 24.15 ± 0.0003742
24.4
24.3
24.2
24.1
24
23.9
23.8
pull
Entries 89
Mean 513
Std Dev 450.8
60
40
20
0
−20
−40
−60
−80

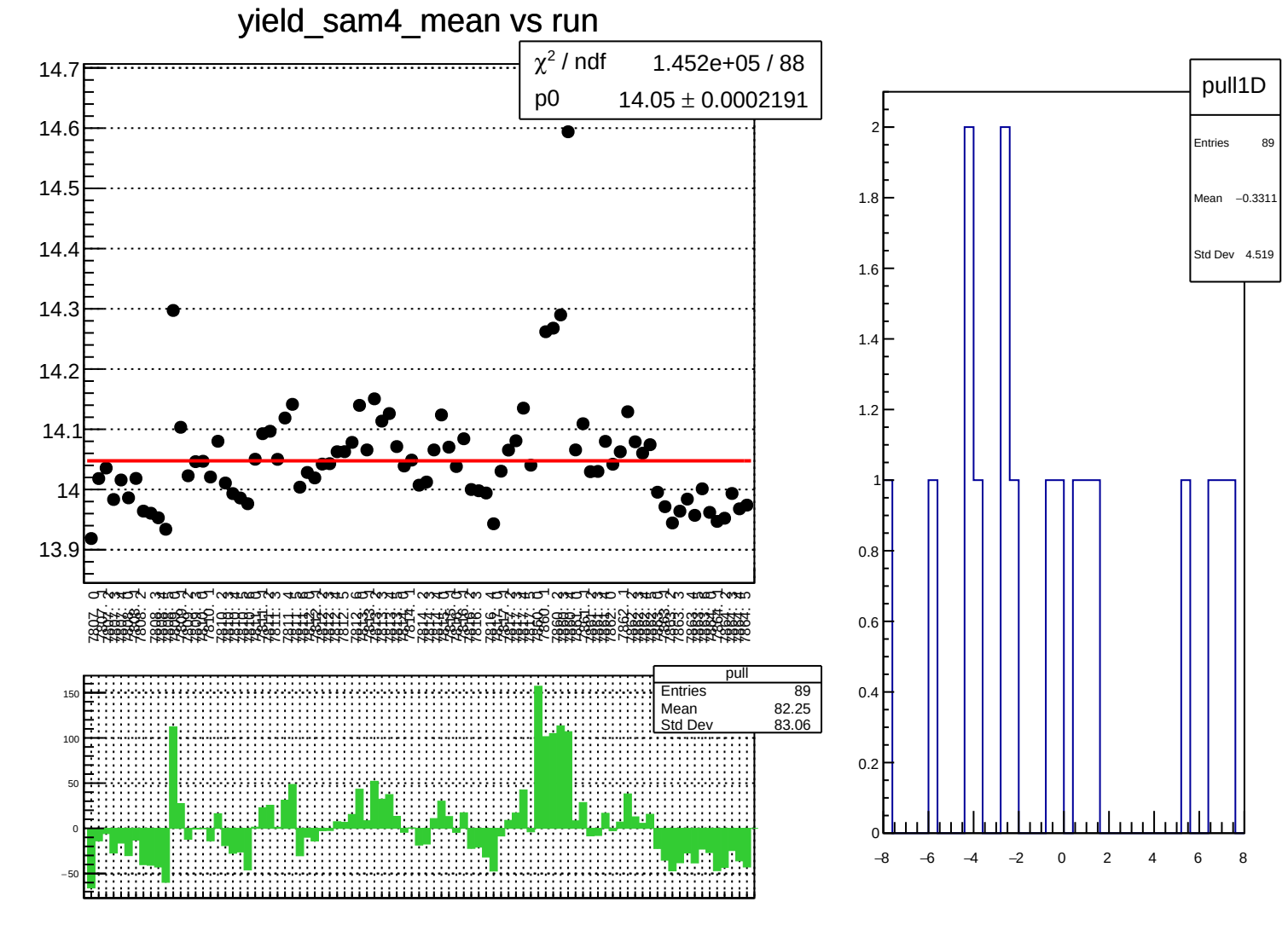

pull1D
Entries 89
Mean 0.1338
Std Dev 4.554
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

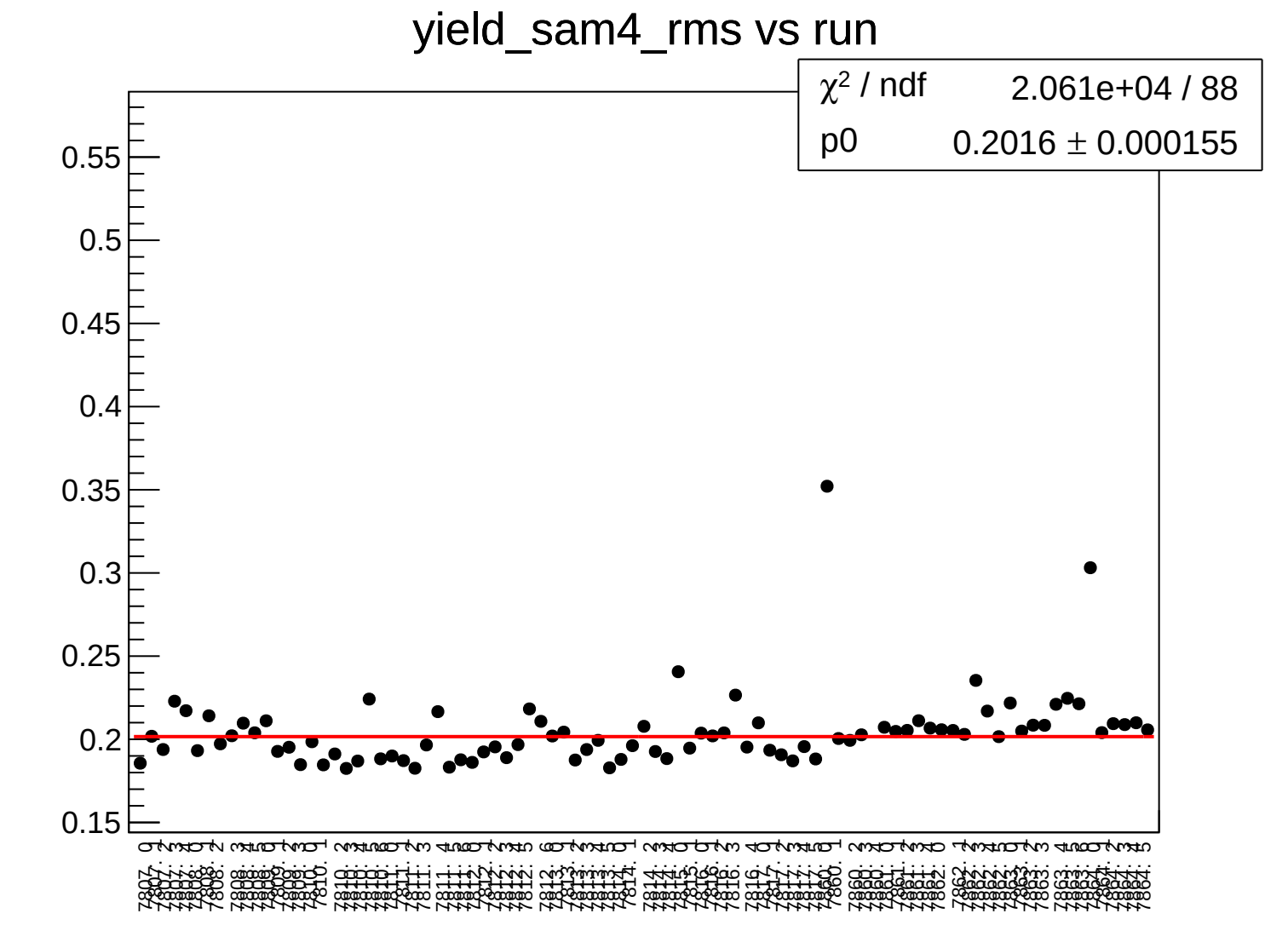

yield_sam2_rms vs run
χ² / ndf 7111 / 88
p0 0.3456 ± 0.0002646
0.5
0.45
0.4
0.35
0.3

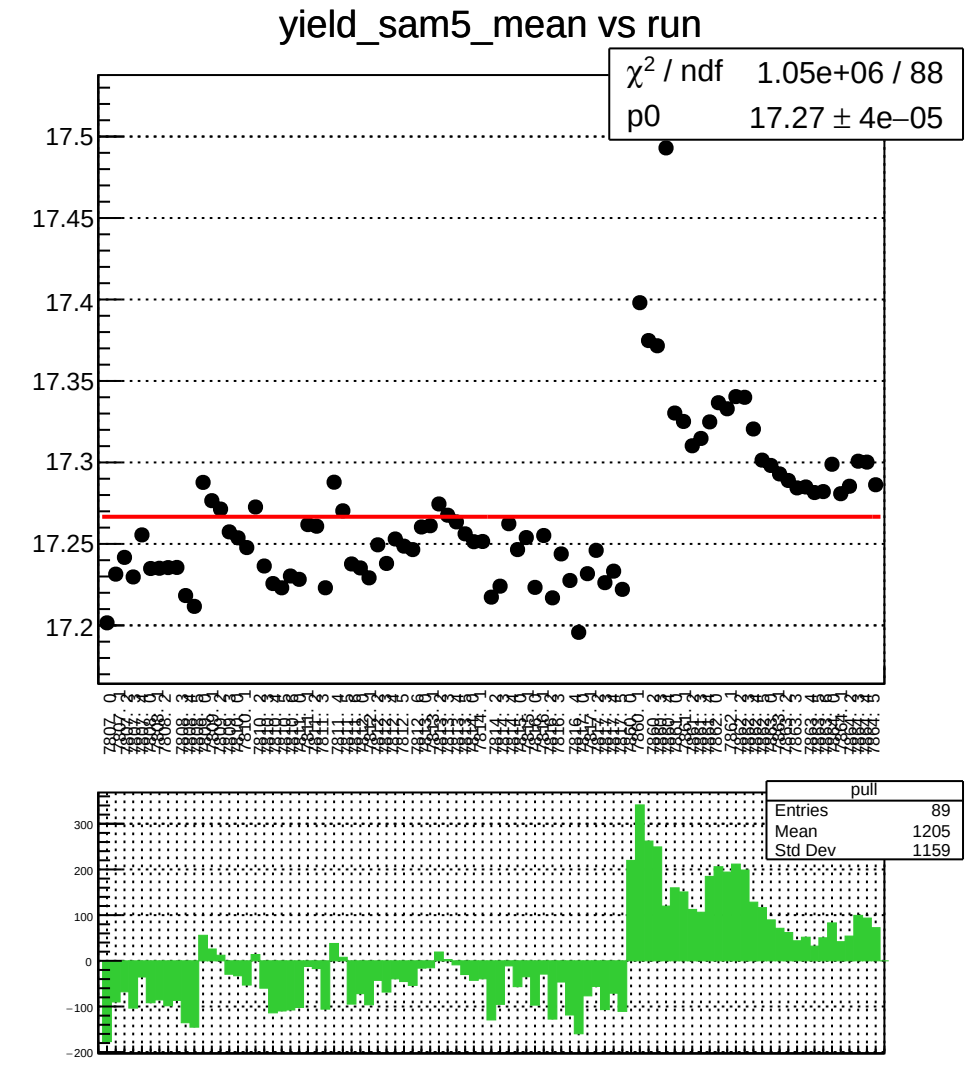

yield_sam3_mean vs run
χ² / ndf 1.736e+05 / 88
p0 25.04 ± 0.0002589
25.6
25.4
25.2
25
24.8
pull
Entries 89
Mean −1473
Std Dev 1543
150
100
50
0
−50

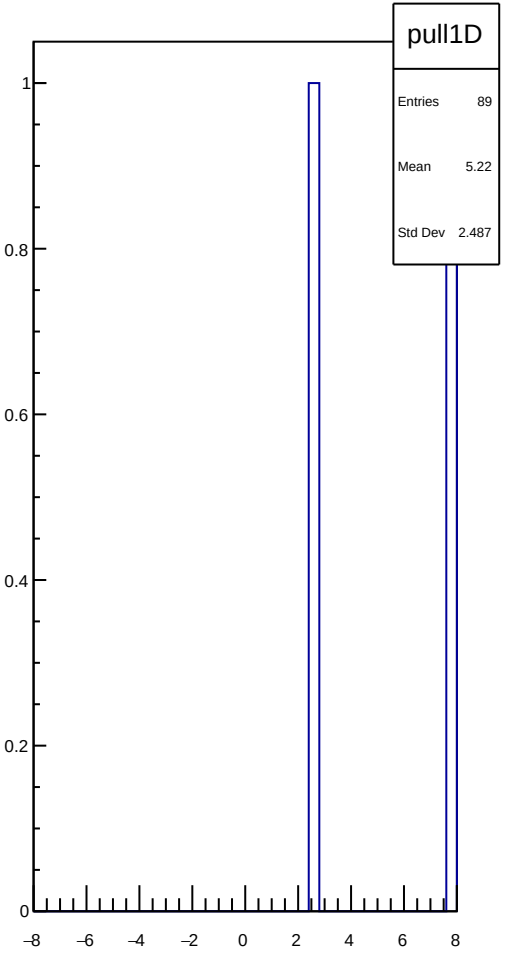

pull1D
Entries 89
Mean 0.9732
Std Dev 4.472
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

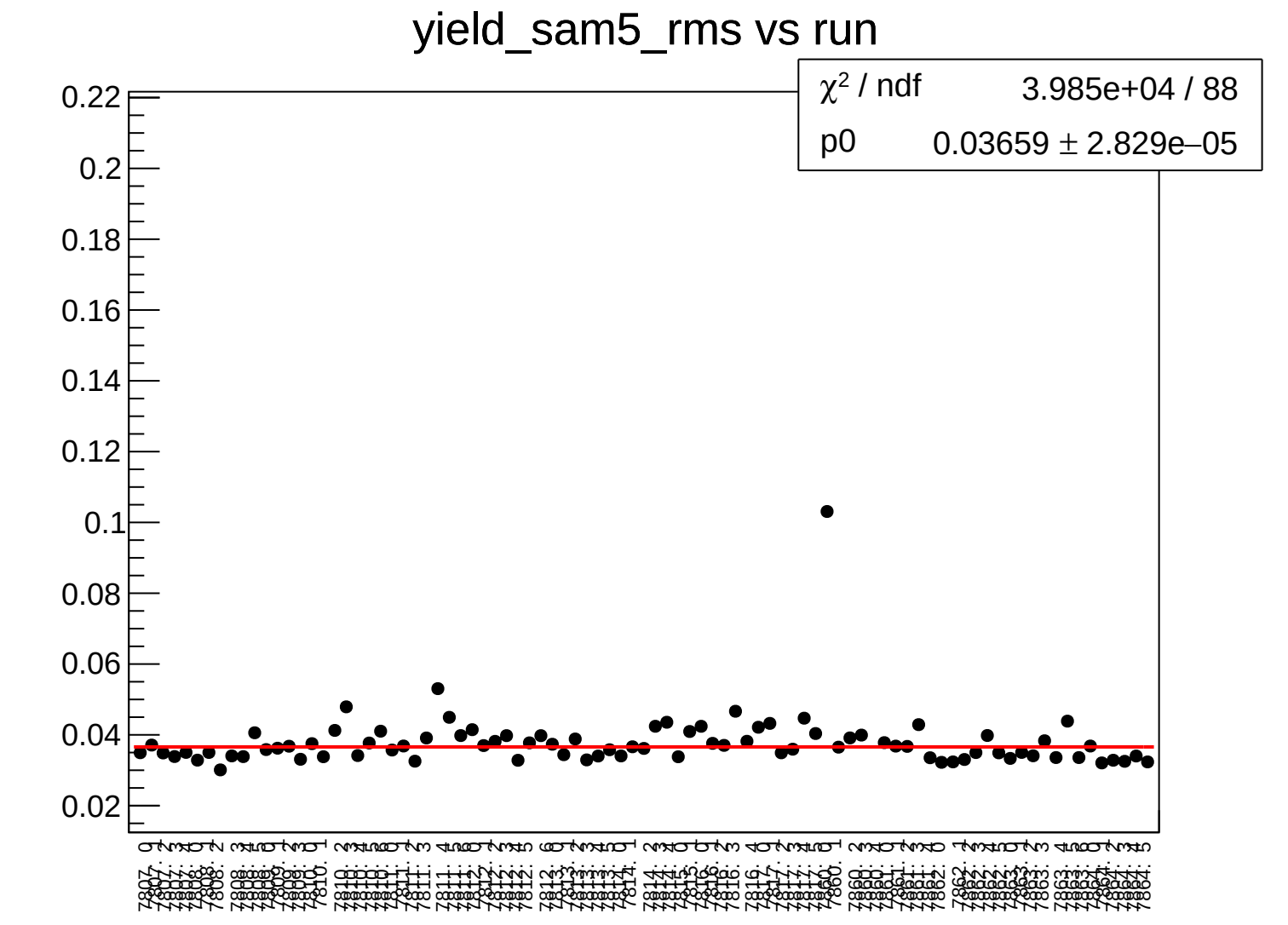

yield_sam3_rms vs run
χ² / ndf 1.558e+04 / 88
p0 0.2385 ± 0.000183
0.45
0.4
0.35
0.3
0.25
0.2

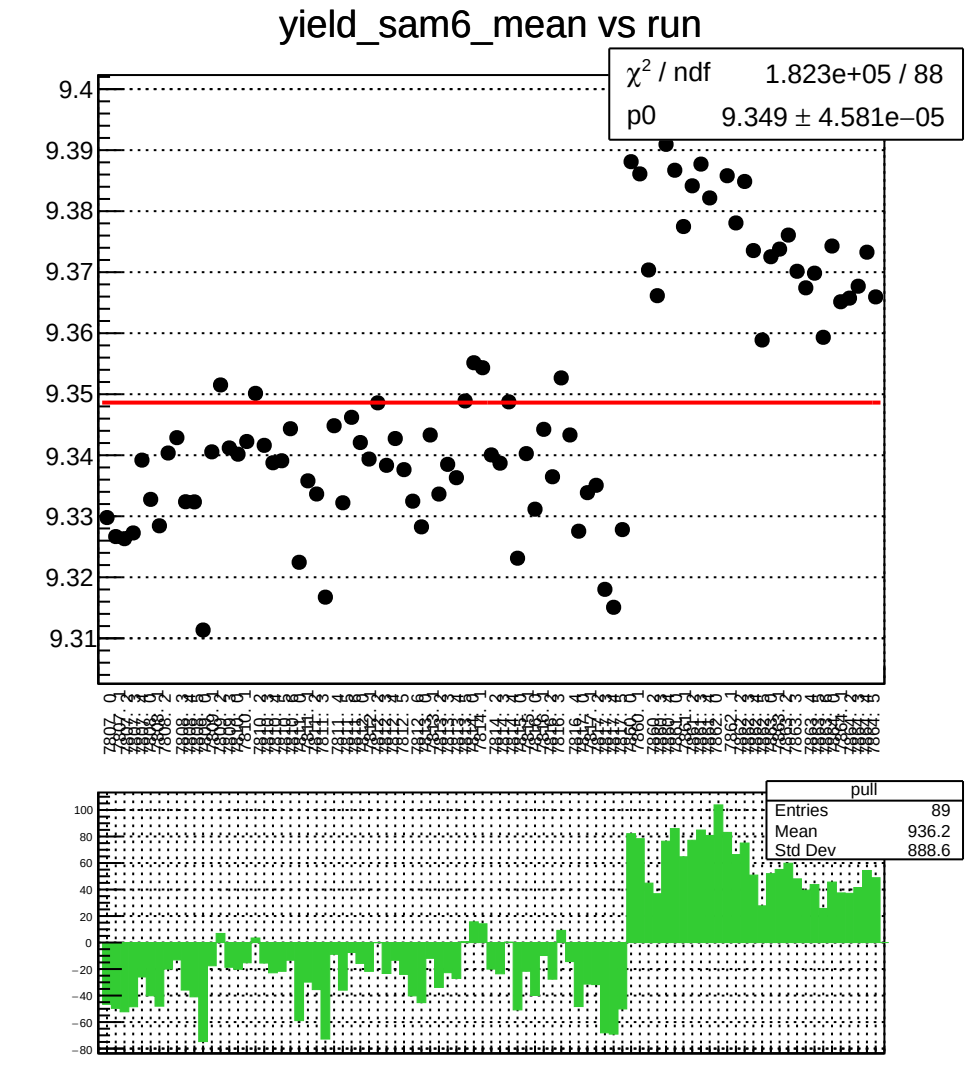

yield_sam4_mean vs run
χ² / ndf 1.452e+05 / 88
p0 14.05 ± 0.0002191
14.7
14.6
14.5
14.4
14.3
14.2
14.1
14
13.9
pull
Entries 89
Mean 82.25
Std Dev 83.06
150
100
50
0
−50
pull1D
Entries 89
Mean −0.3311
Std Dev 4.519
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

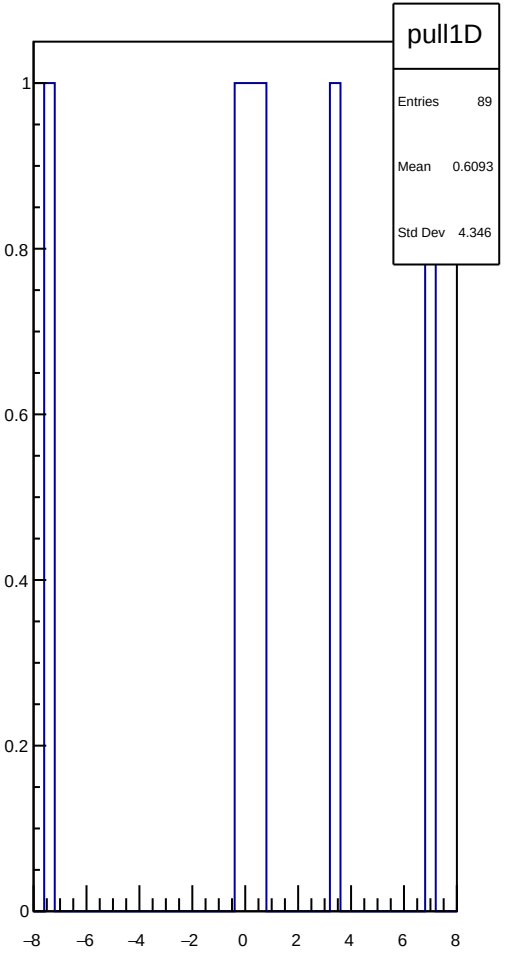

yield_sam4_rms vs run
χ² / ndf 2.061e+04 / 88
p0 0.2016 ± 0.000155
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15

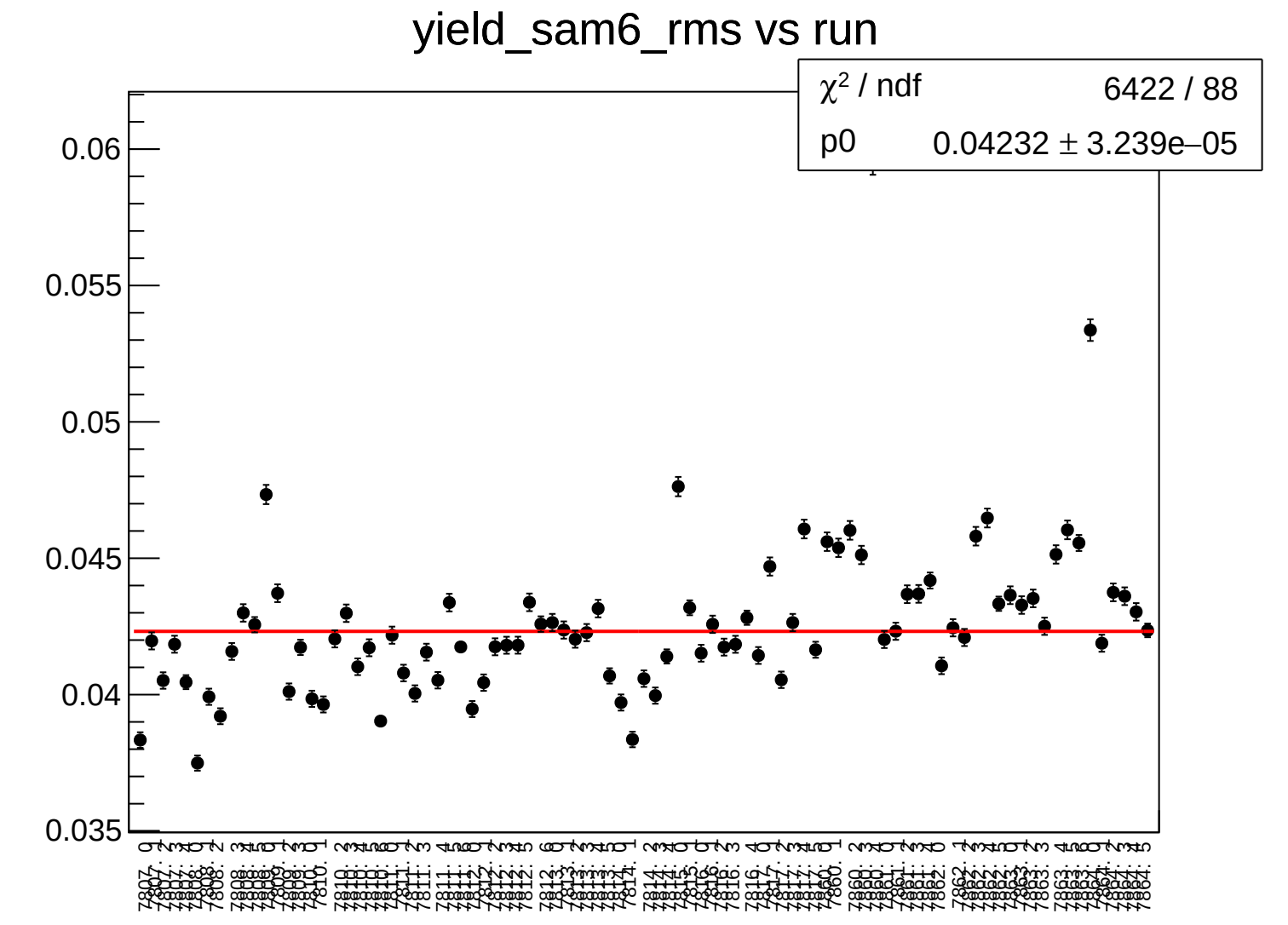

yield_sam5_mean vs run
χ² / ndf 1.05e+06 / 88
p0 17.27 ± 4e−05
17.5
17.45
17.4
17.35
17.3
17.25
17.2
pull
Entries 89
Mean 1205
Std Dev 1159
300
200
100
0
−100
−200

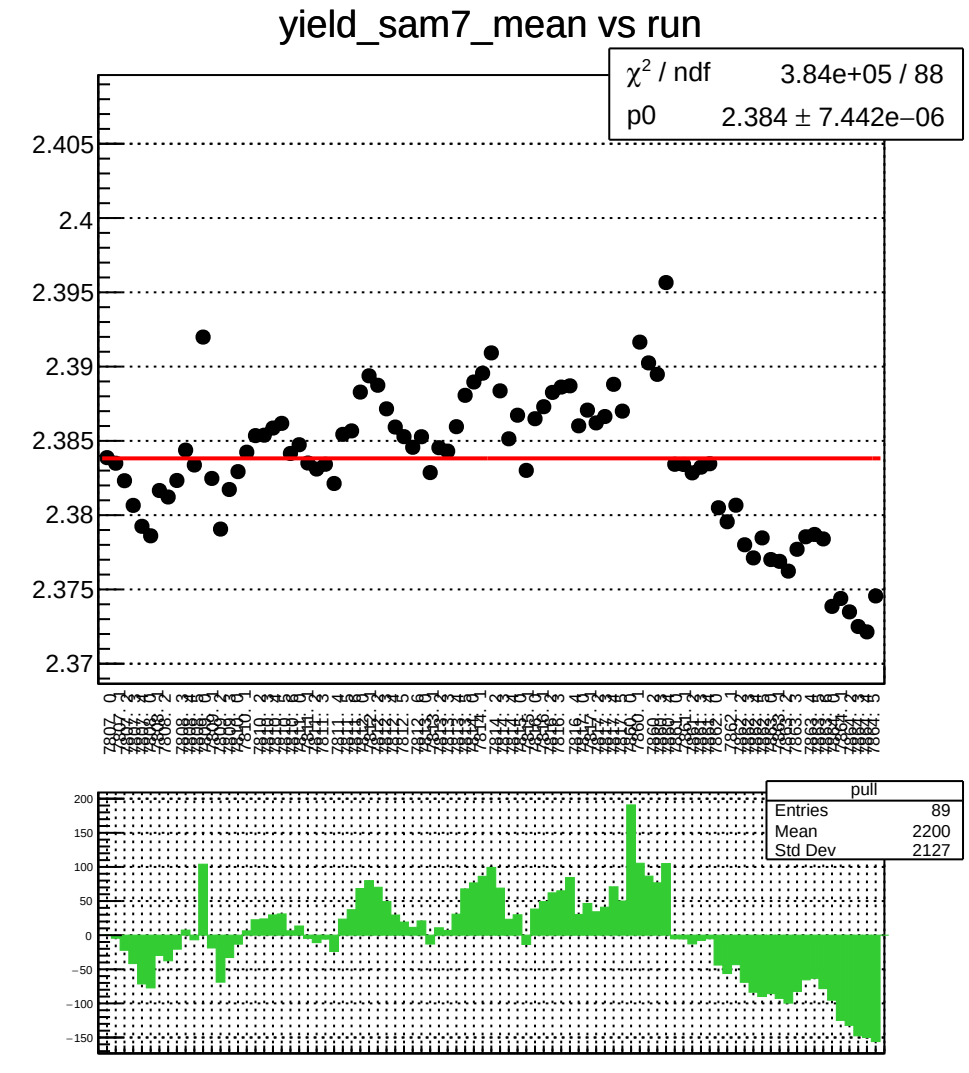

pull1D
Entries 89
Mean 5.22
Std Dev 2.487
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

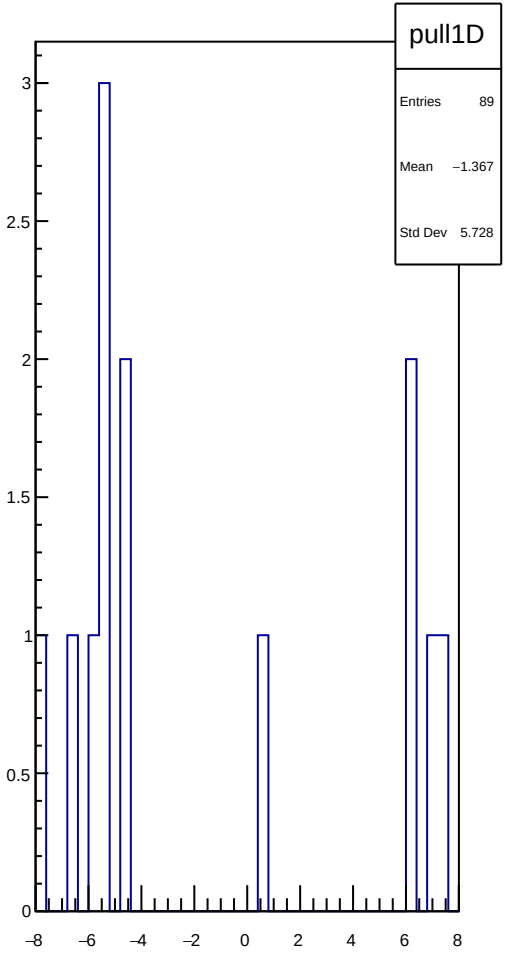

yield_sam5_rms vs run
χ² / ndf 3.985e+04 / 88
p0 0.03659 ± 2.829e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

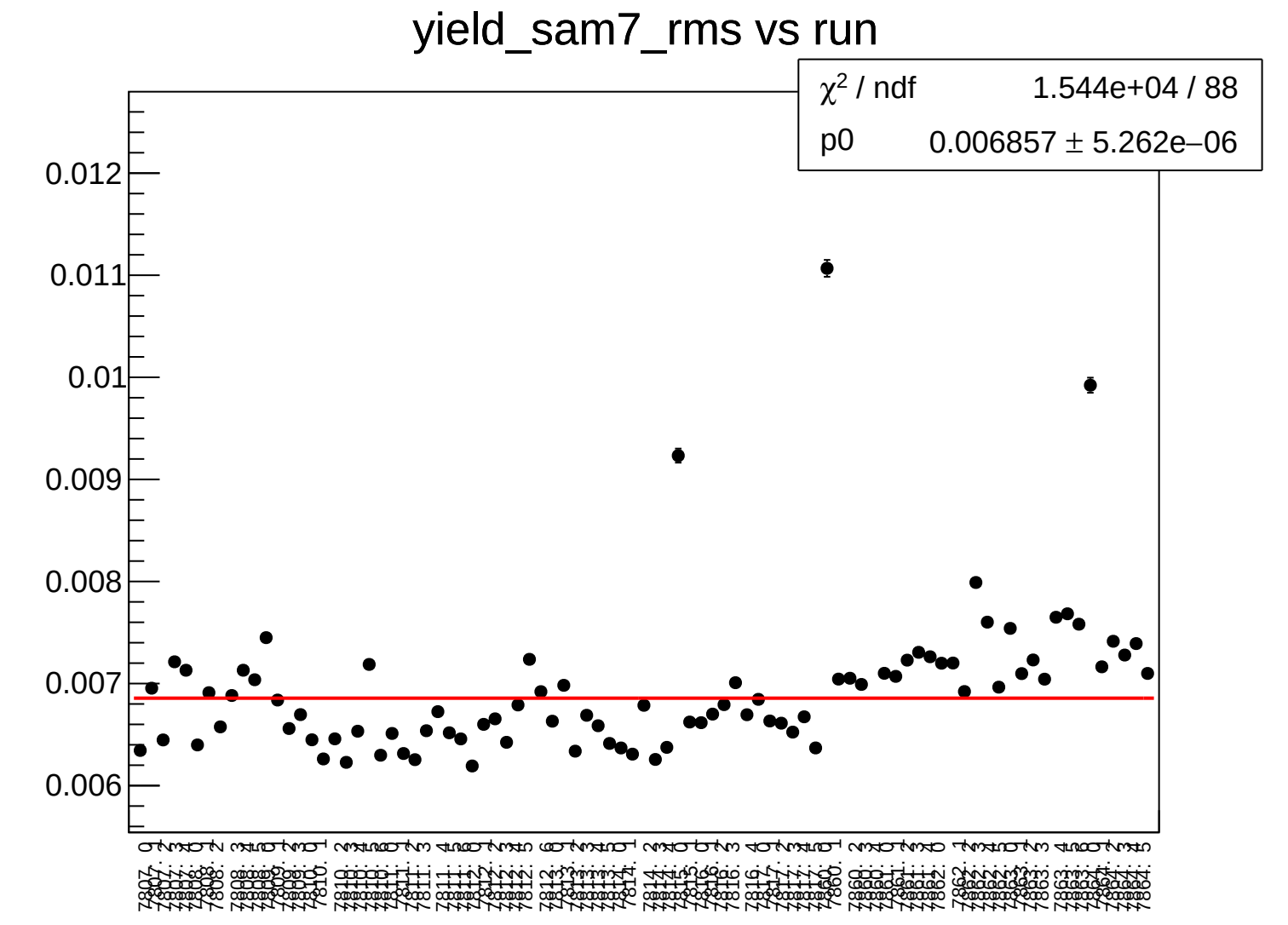

yield_sam6_mean vs run
χ² / ndf 1.823e+05 / 88
p0 9.349 ± 4.581e−05
9.4
9.39
9.38
9.37
9.36
9.35
9.34
9.33
9.32
9.31
pull
Entries 89
Mean 936.2
Std Dev 888.6
100
80
60
40
20
0
−20
−40
−60
−80

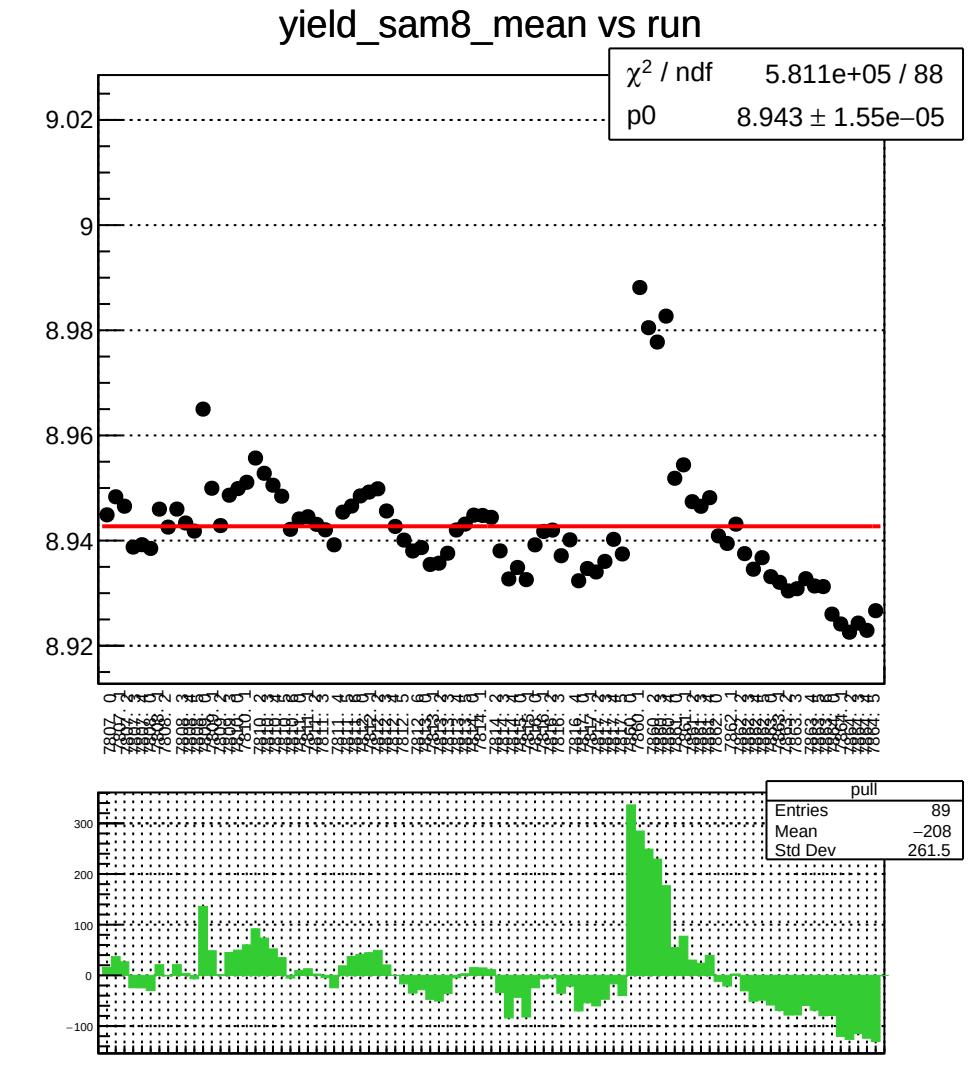

pull1D
Entries 89
Mean 0.6093
Std Dev 4.346
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

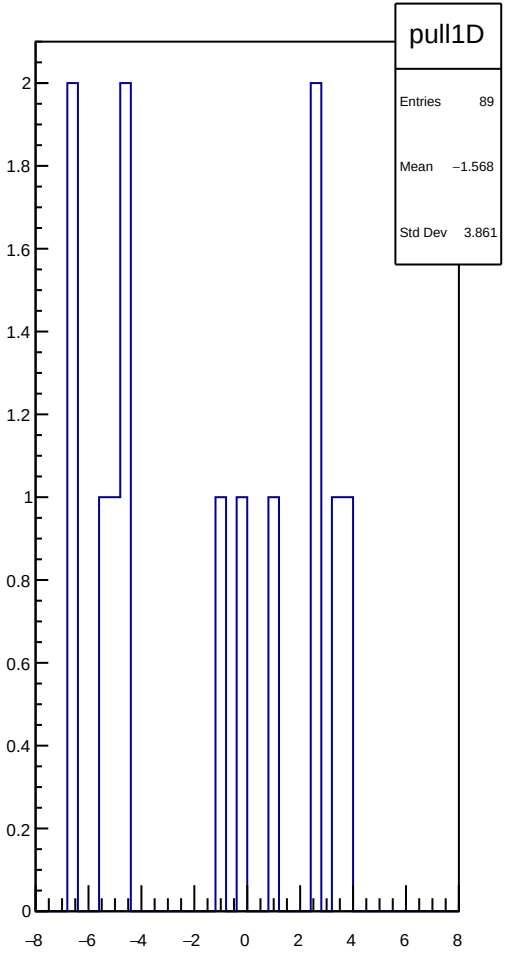

yield_sam6_rms vs run
χ² / ndf 6422 / 88
p0 0.04232 ± 3.239e−05
0.06
0.055
0.05
0.045
0.04
0.035

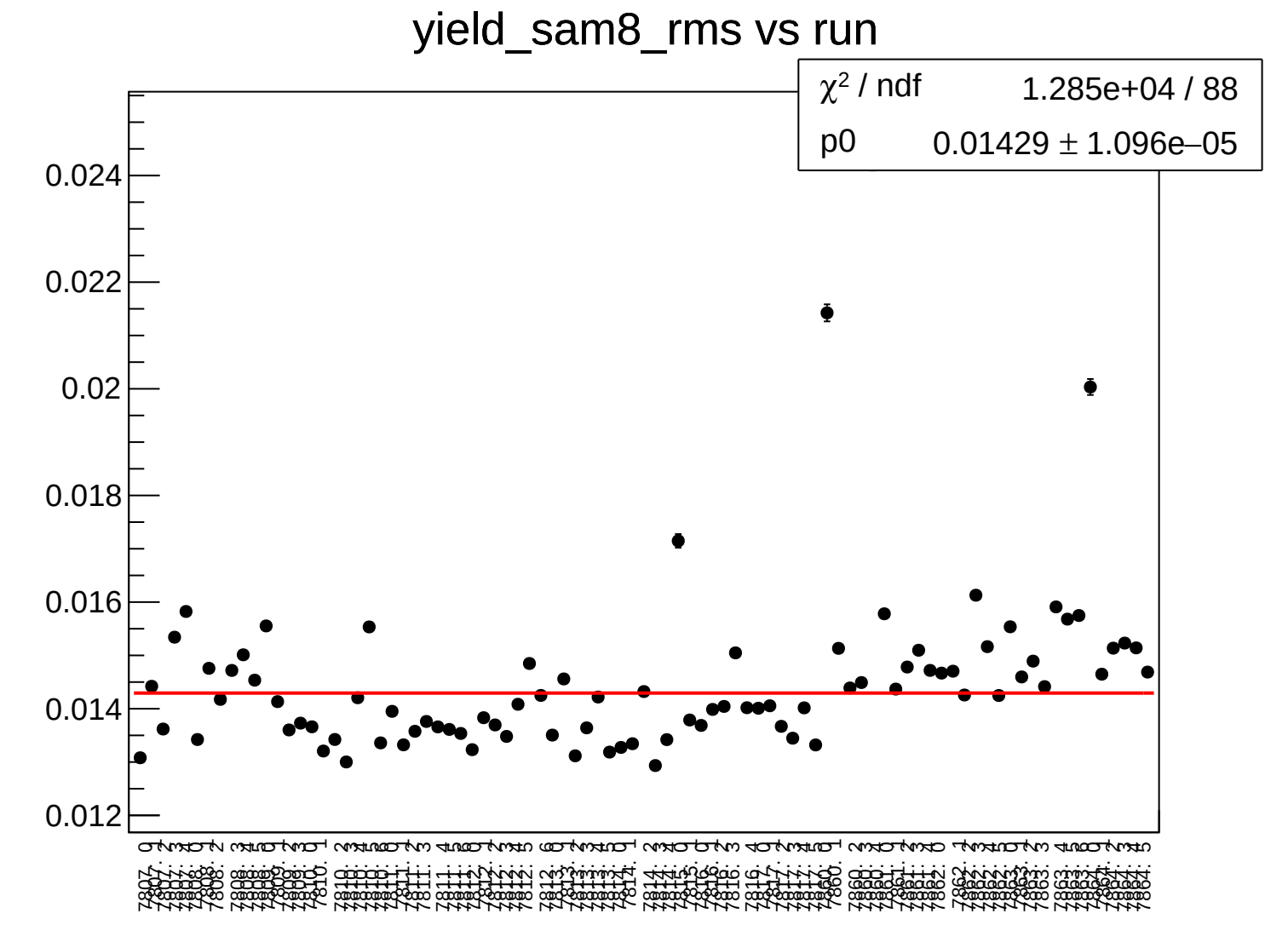

yield_sam7_mean vs run
χ² / ndf 3.84e+05 / 88
p0 2.384 ± 7.442e−06
2.405
2.4
2.395
2.39
2.385
2.38
2.375
2.37
pull
Entries 89
Mean 2200
Std Dev 2127
200
150
100
50
0
−50
−100
−150

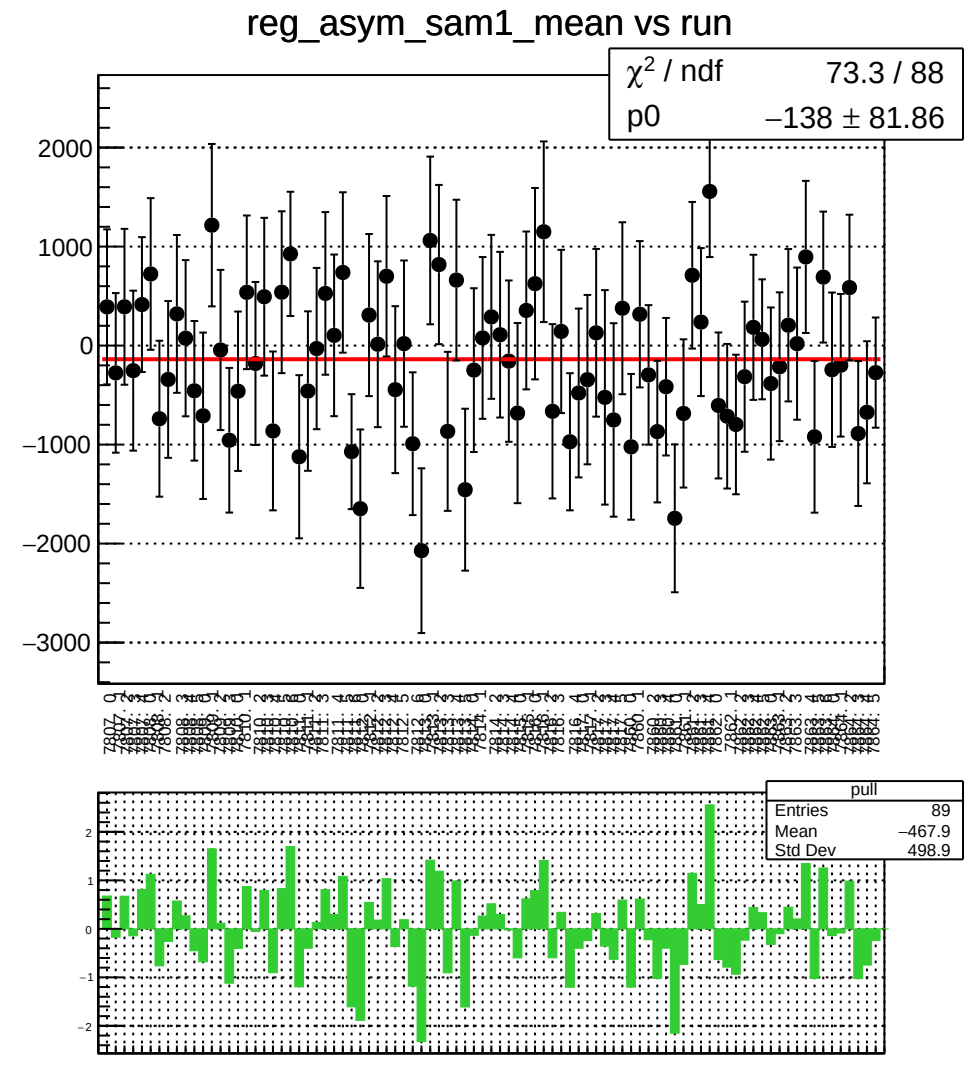

pull1D
Entries 89
Mean −1.367
Std Dev 5.728
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

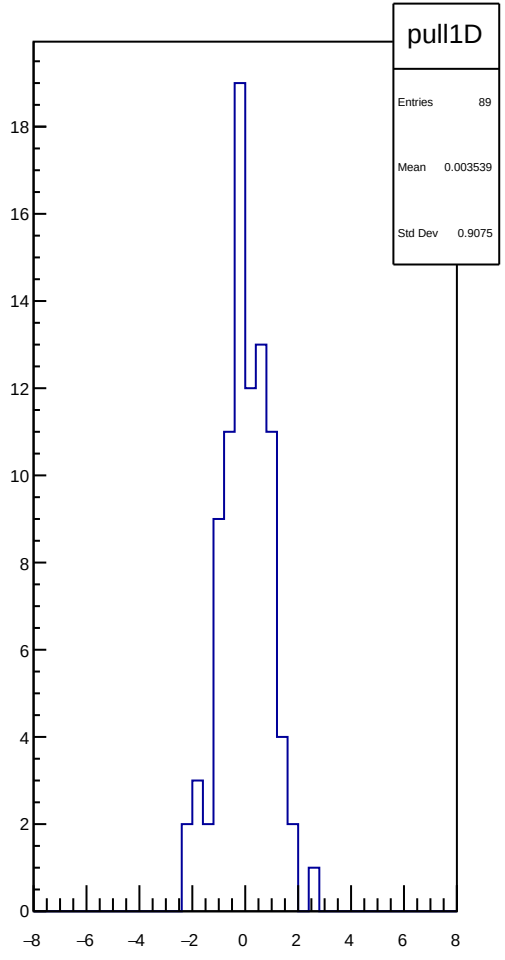

yield_sam7_rms vs run
χ² / ndf 1.544e+04 / 88
p0 0.006857 ± 5.262e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

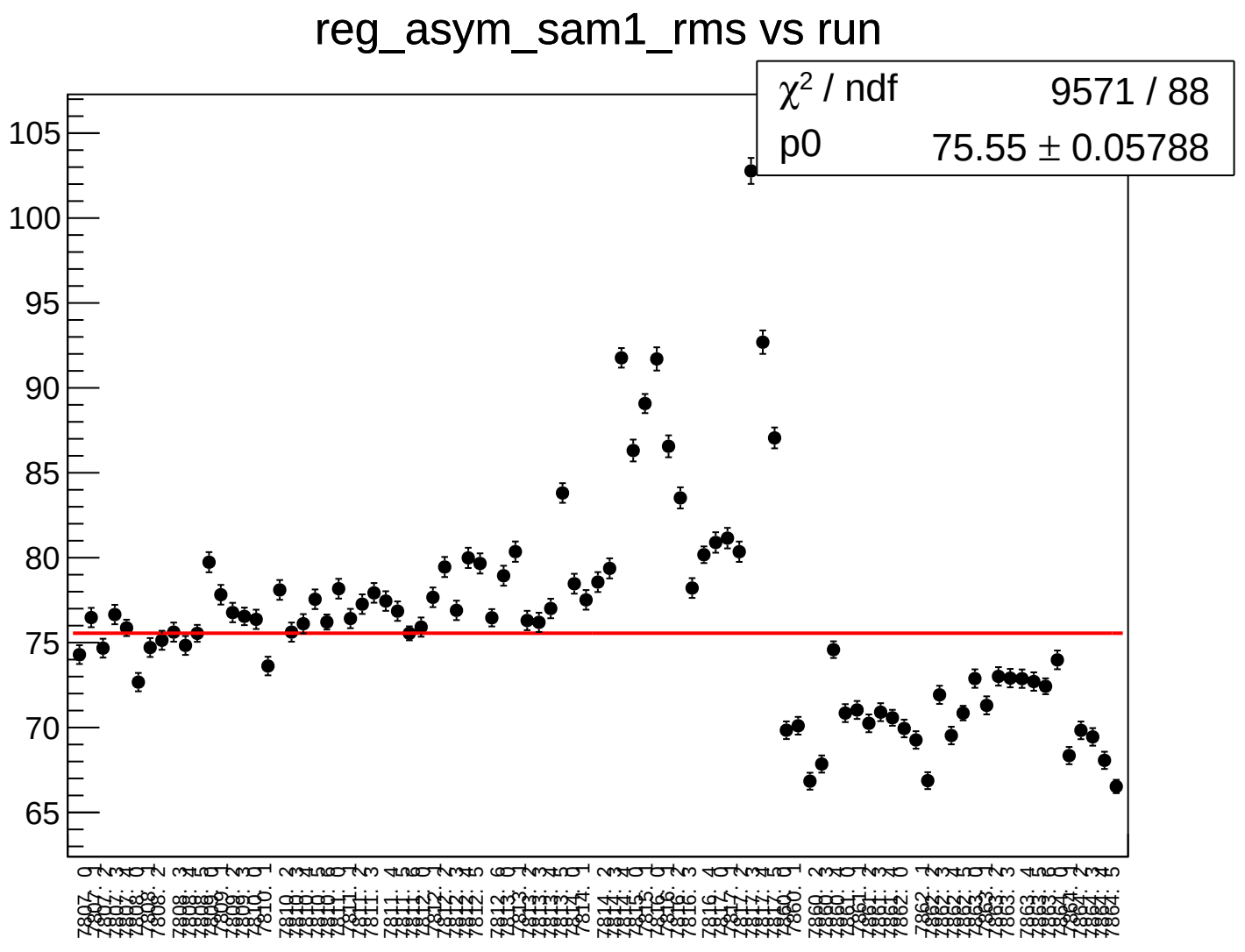

yield_sam8_mean vs run
χ² / ndf 5.811e+05 / 88
p0 8.943 ± 1.55e−05
9.02
9
8.98
8.96
8.94
8.92
pull
Entries 89
Mean −208
Std Dev 261.5
300
200
100
0
−100

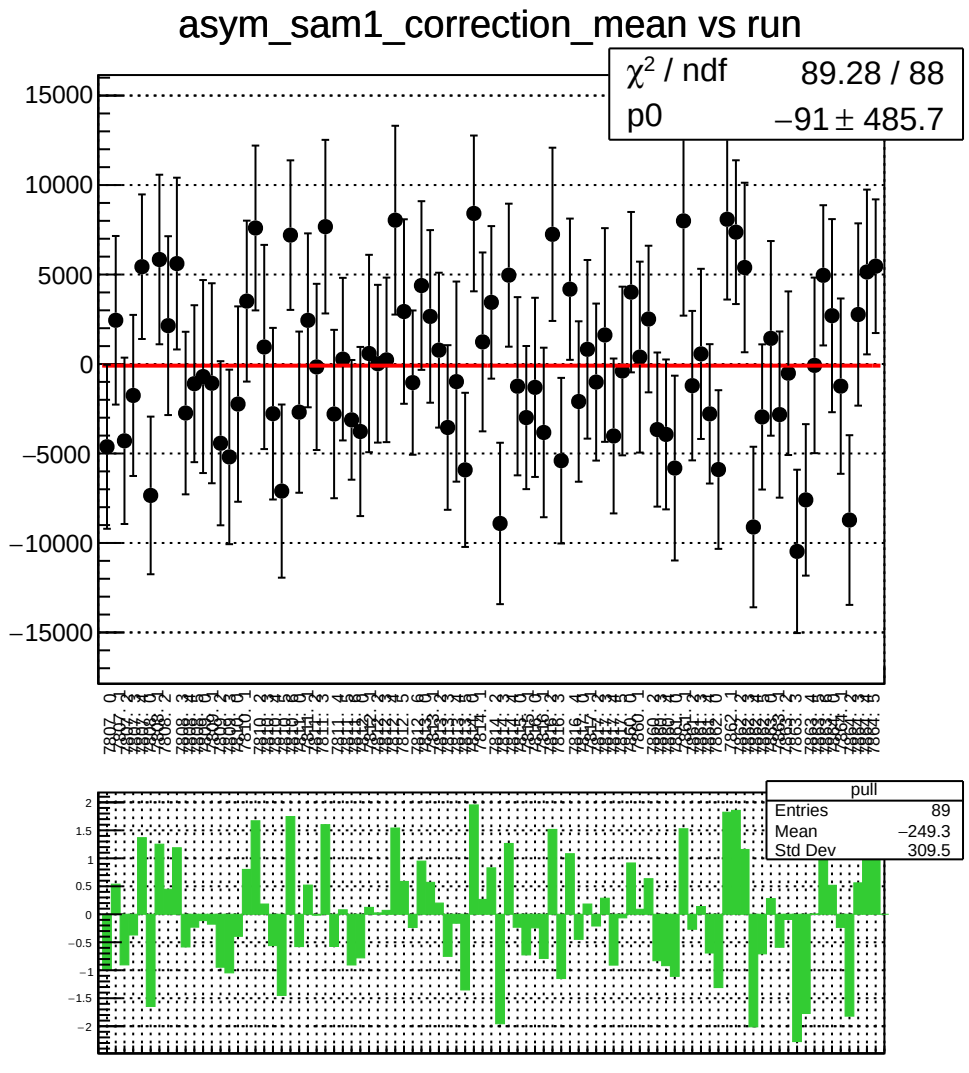

pull1D
Entries 89
Mean −1.568
Std Dev 3.861
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

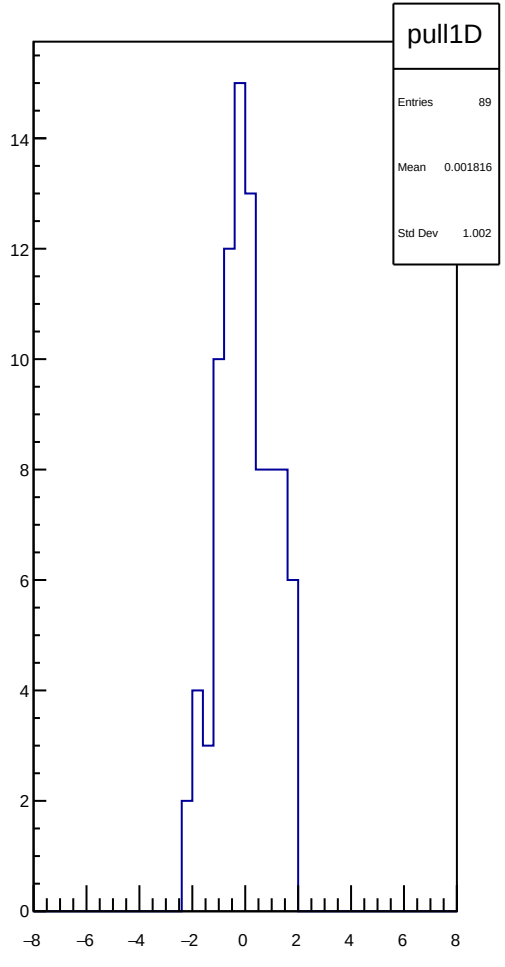

yield_sam8_rms vs run
χ² / ndf 1.285e+04 / 88
p0 0.01429 ± 1.096e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012

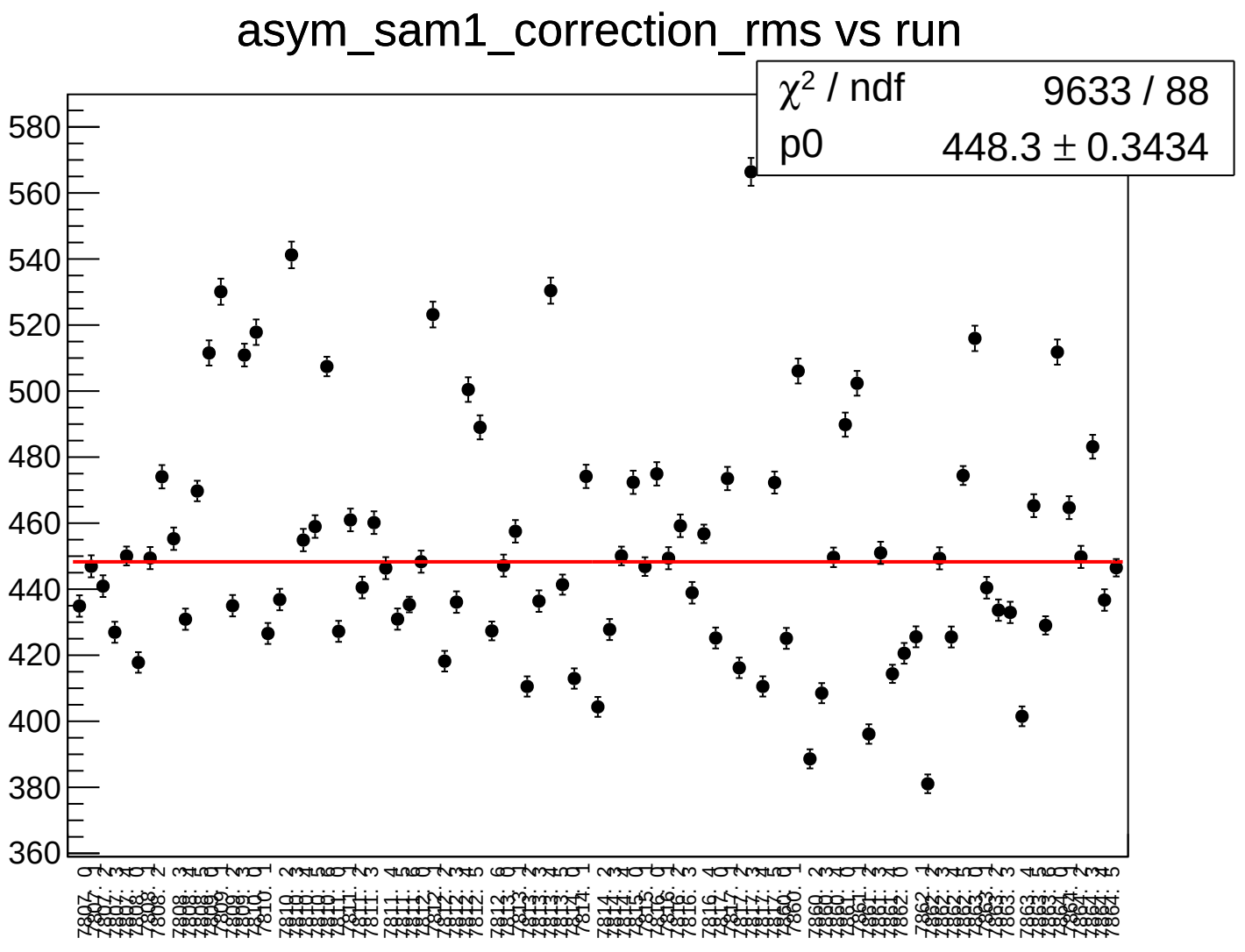

reg_asym_sam1_mean vs run
χ² / ndf 73.3 / 88
p0 −138 ± 81.86
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −467.9
Std Dev 498.9
2
1
0
−1
−2

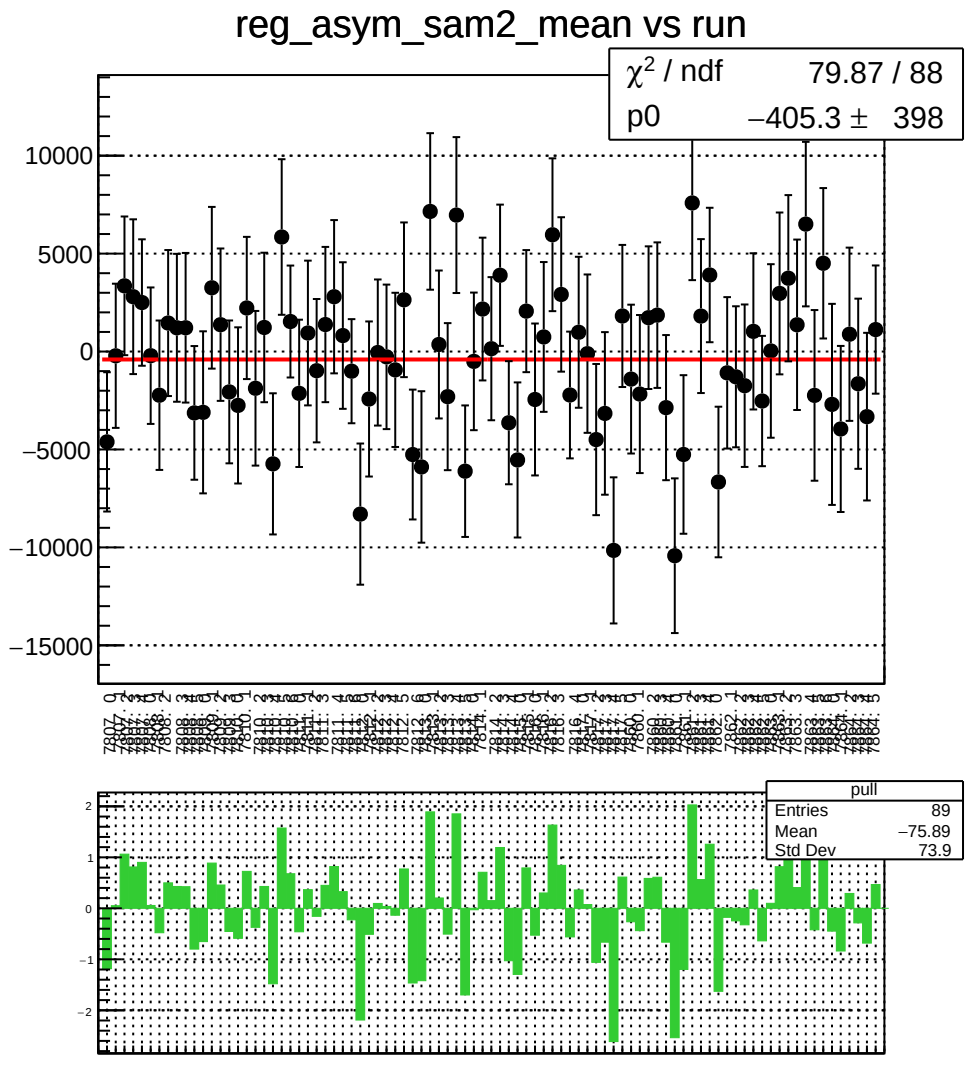

pull1D
Entries 89
Mean 0.003539
Std Dev 0.9075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

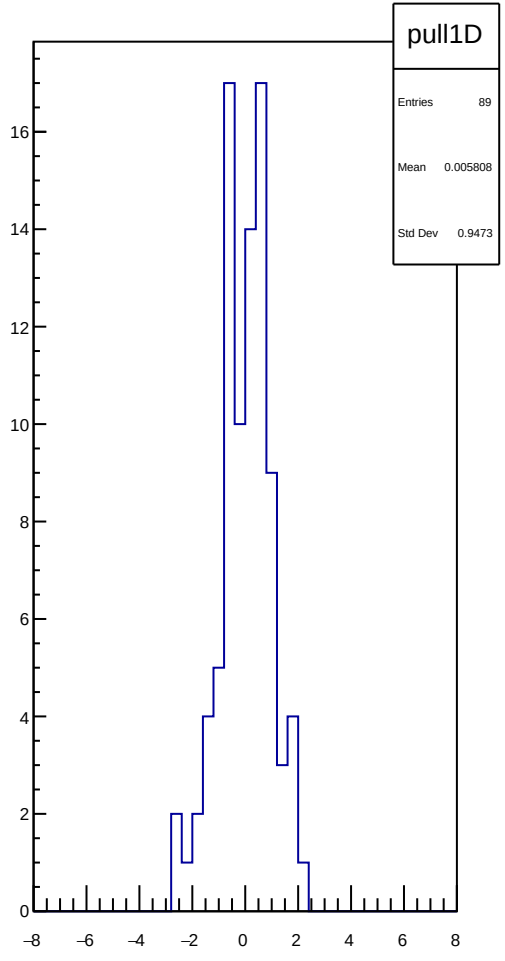

reg_asym_sam1_rms vs run
χ^2 / ndf 9571 / 88
p0 75.55 ± 0.05788
105
100
95
90
85
80
75
70
65

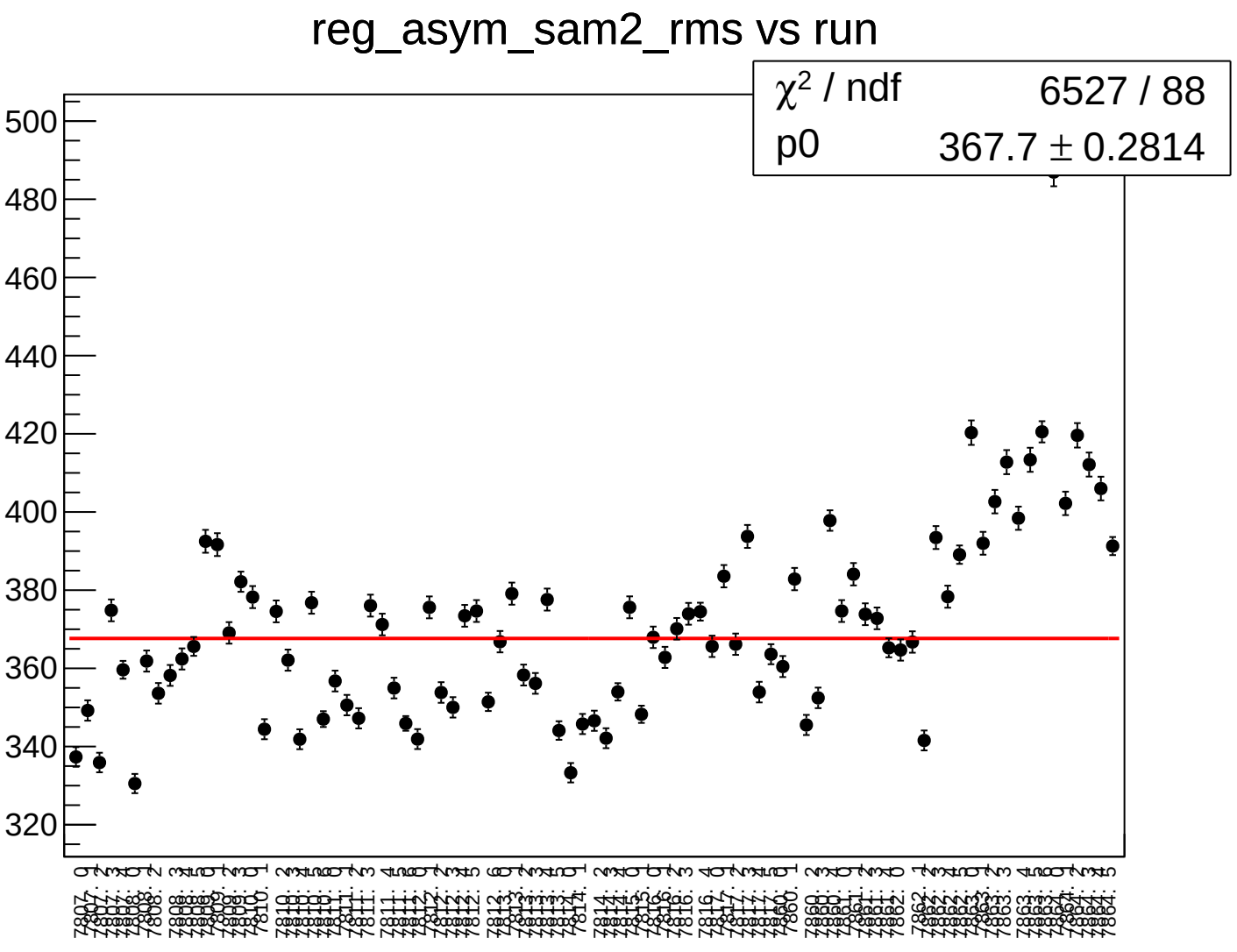

asym_sam1_correction_mean vs run
χ² / ndf 89.28 / 88
p0 −91 ± 485.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −249.3
Std Dev 309.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

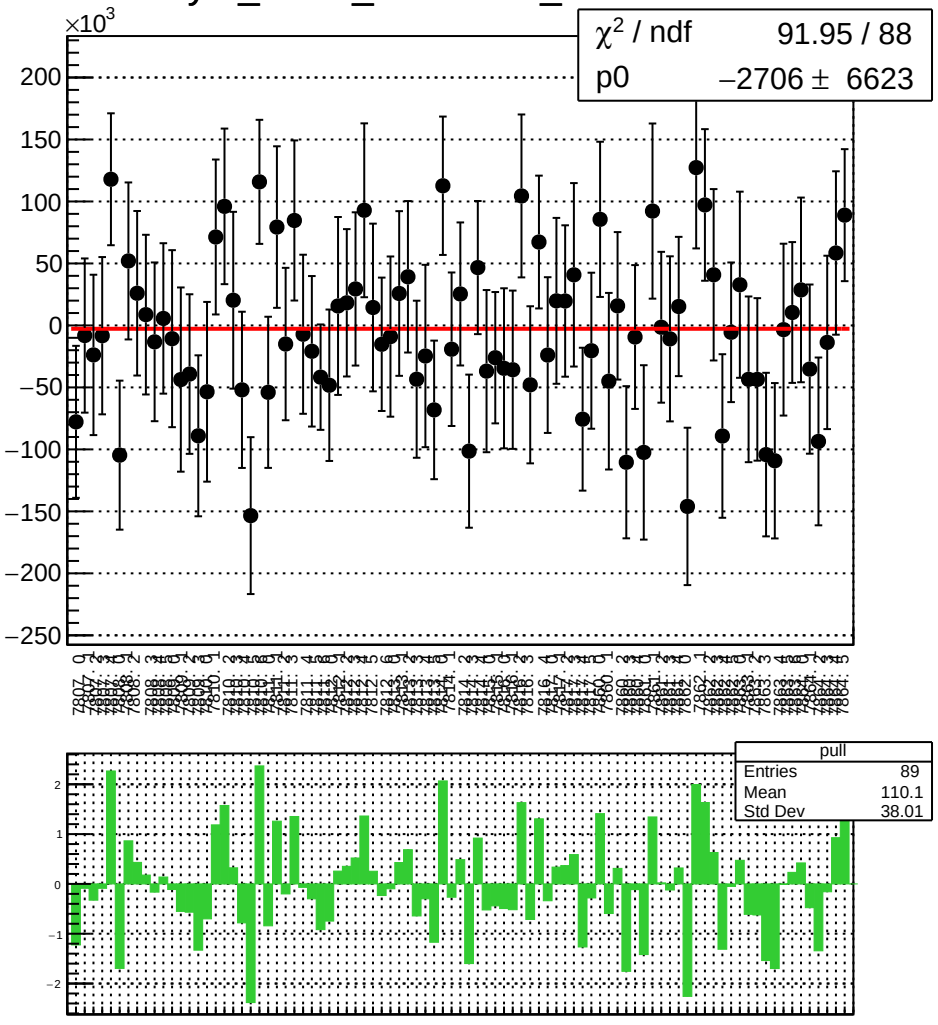

pull1D
Entries 89
Mean 0.001816
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

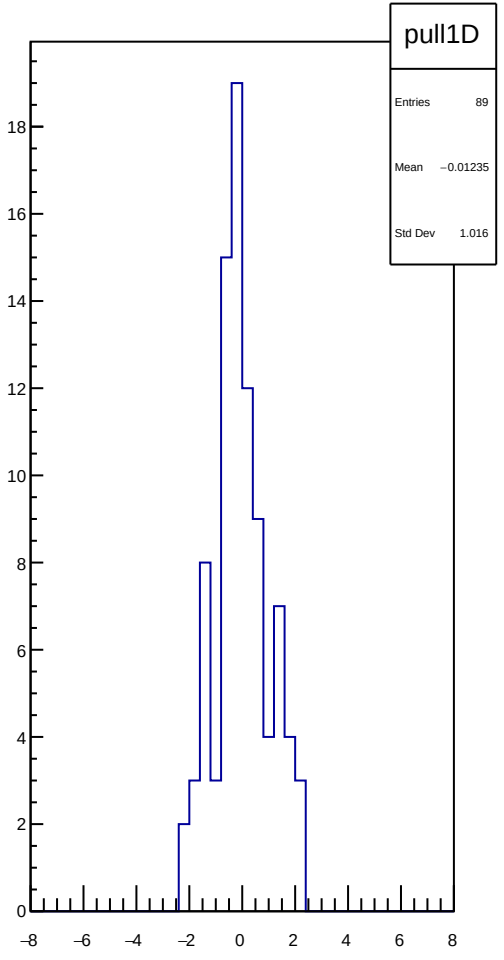

asym_sam1_correction_rms vs run
χ² / ndf 9633 / 88
p0 448.3 ± 0.3434
580
560
540
520
500
480
460
440
420
400
380
360

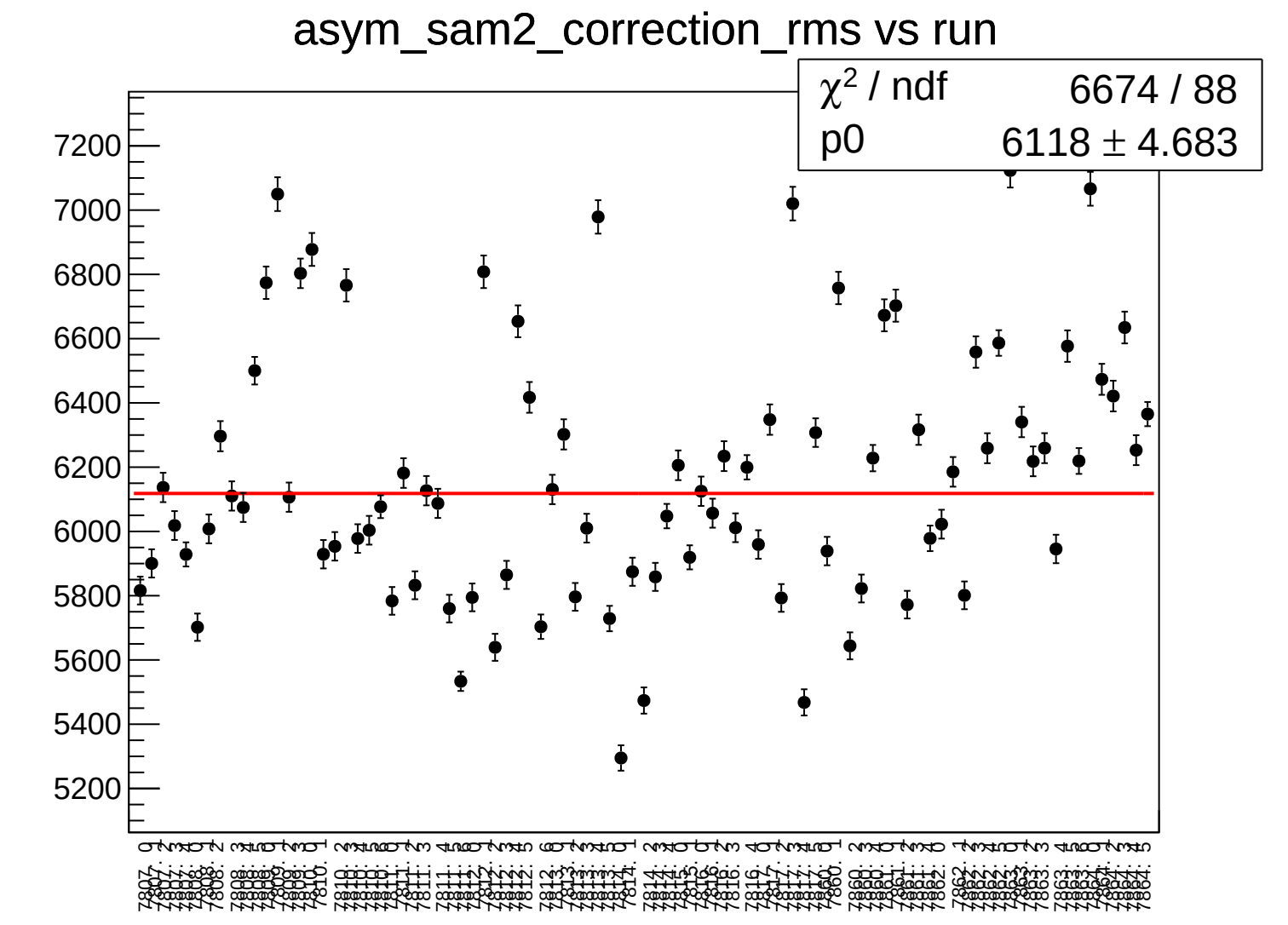

reg_asym_sam2_mean vs run
χ² / ndf 79.87 / 88
p0 −405.3 ± 398
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −75.89
Std Dev 73.9
2
1
0
−1
−2

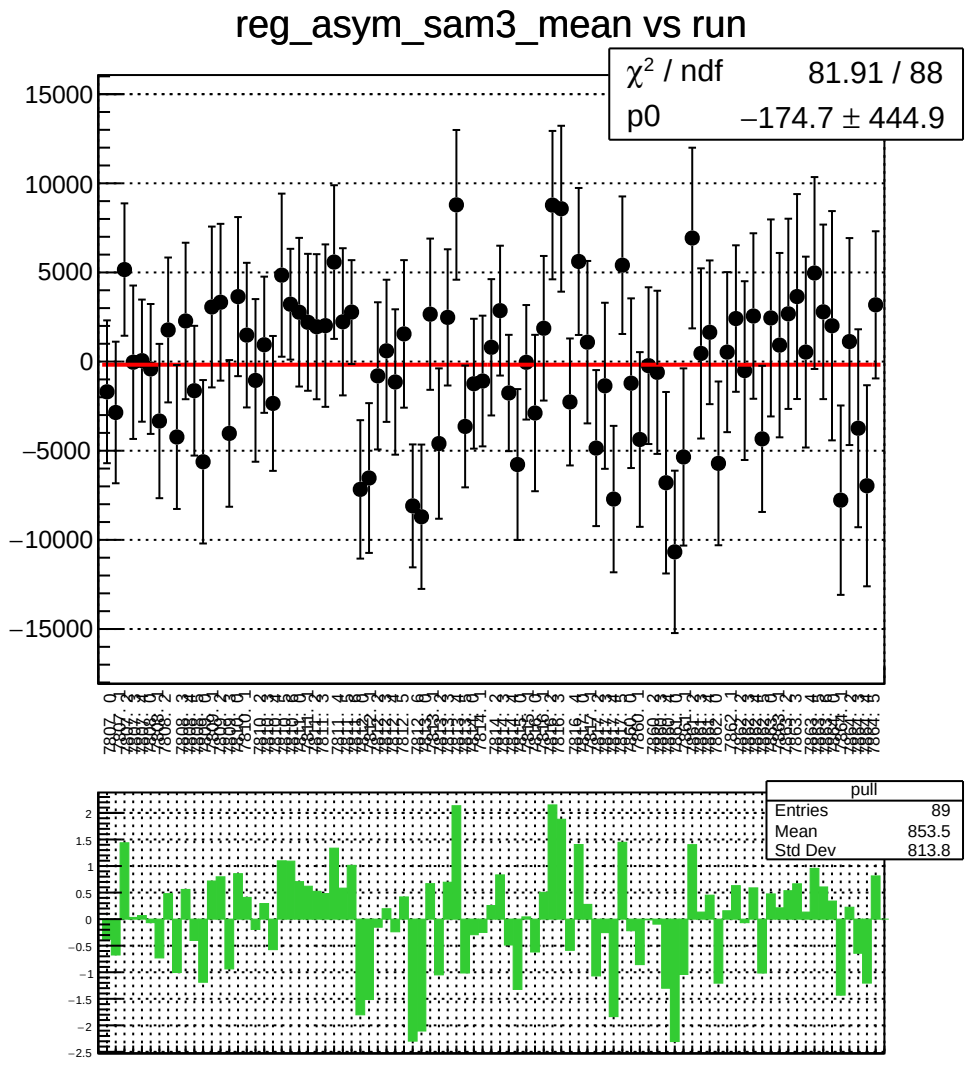

pull1D
Entries 89
Mean 0.005808
Std Dev 0.9473
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

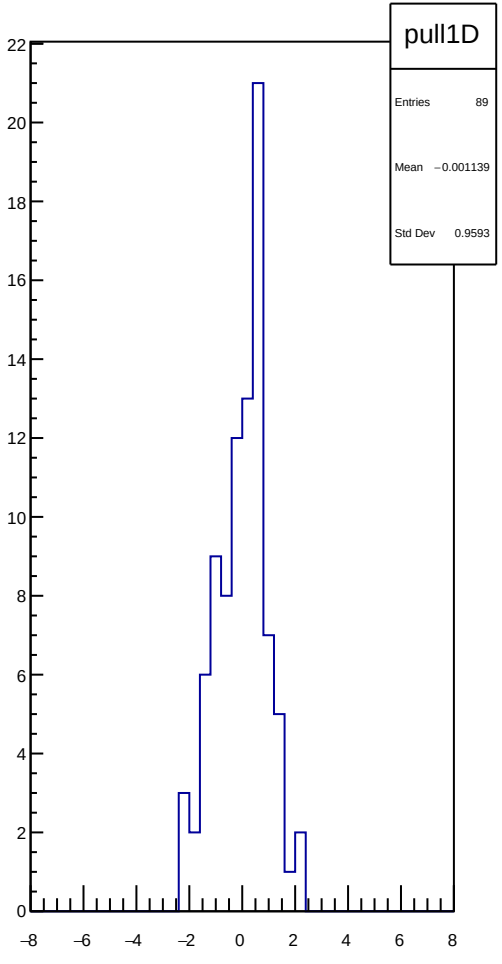

reg_asym_sam2_rms vs run
χ² / ndf 6527 / 88
p0 367.7 ± 0.2814
500
480
460
440
420
400
380
360
340
320

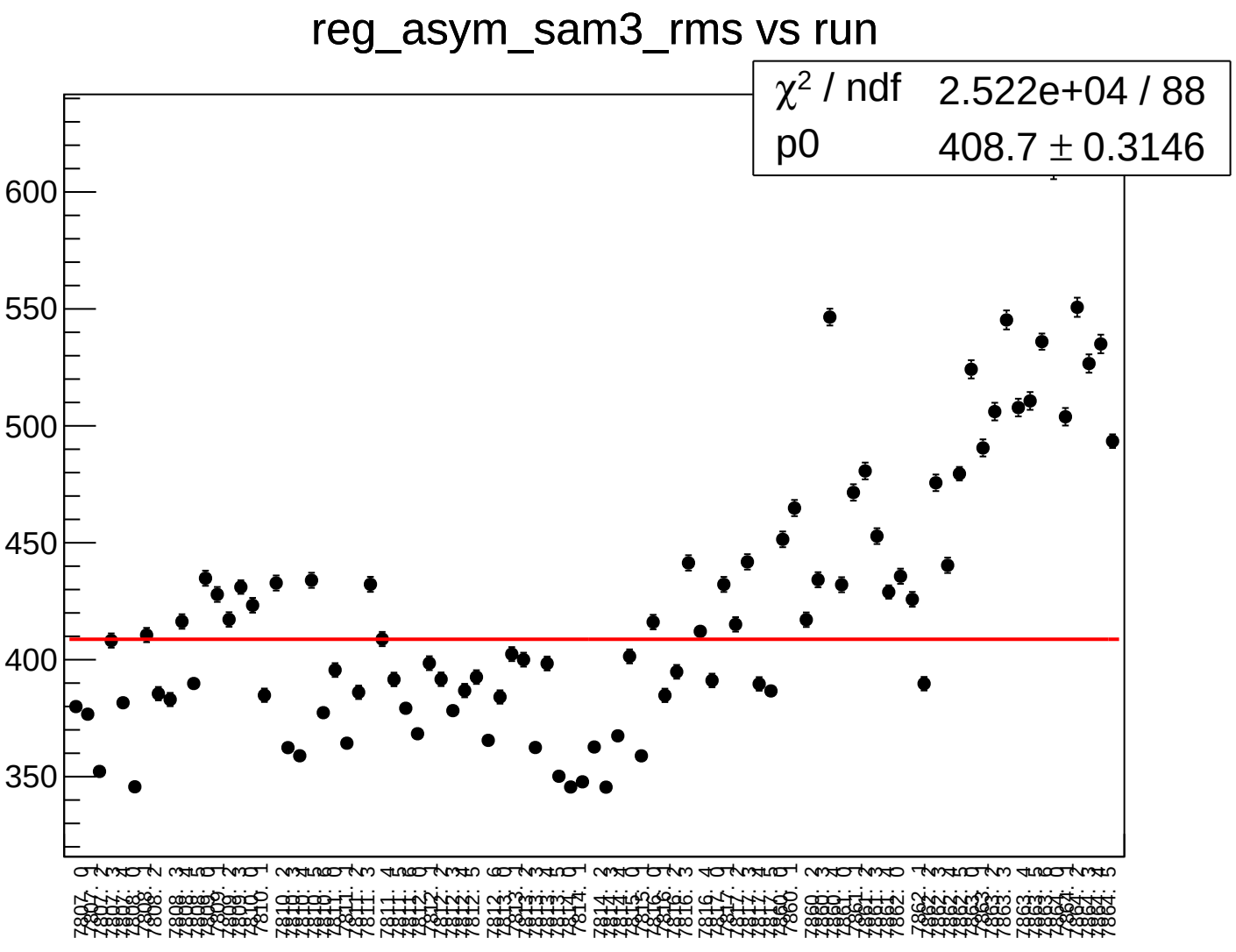

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 91.95 / 88
p0 −2706 ± 6623
pull
Entries 89
Mean 110.1
Std Dev 38.01

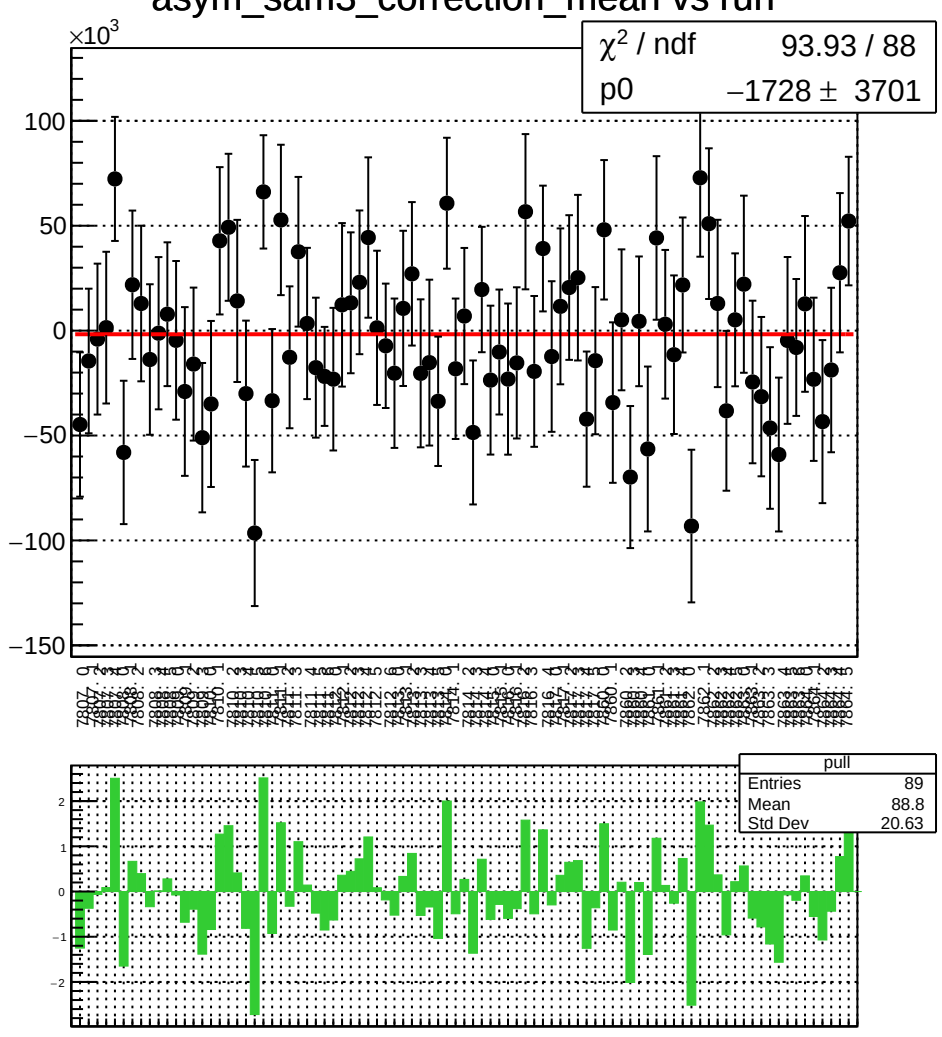

pull1D
Entries 89
Mean −0.01235
Std Dev 1.016

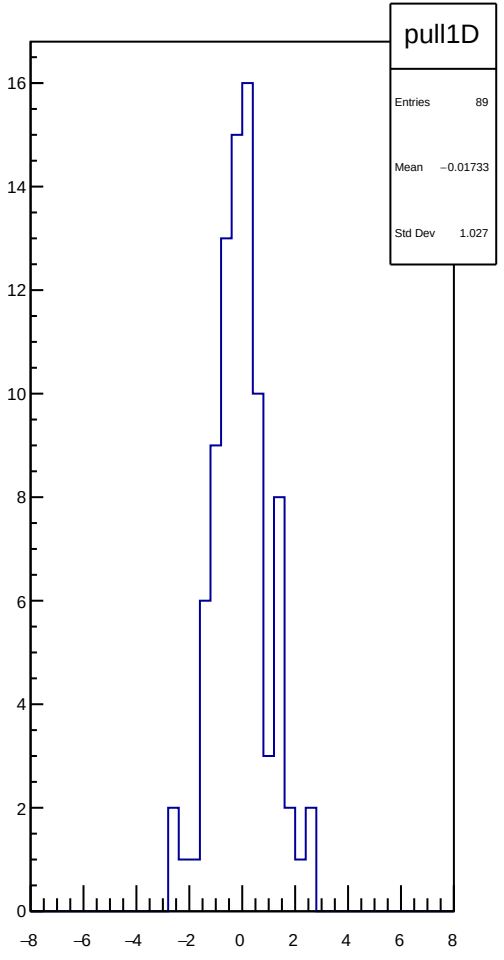

asym_sam2_correction_rms vs run
χ^2 / ndf 6674 / 88
p0 6118 ± 4.683
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

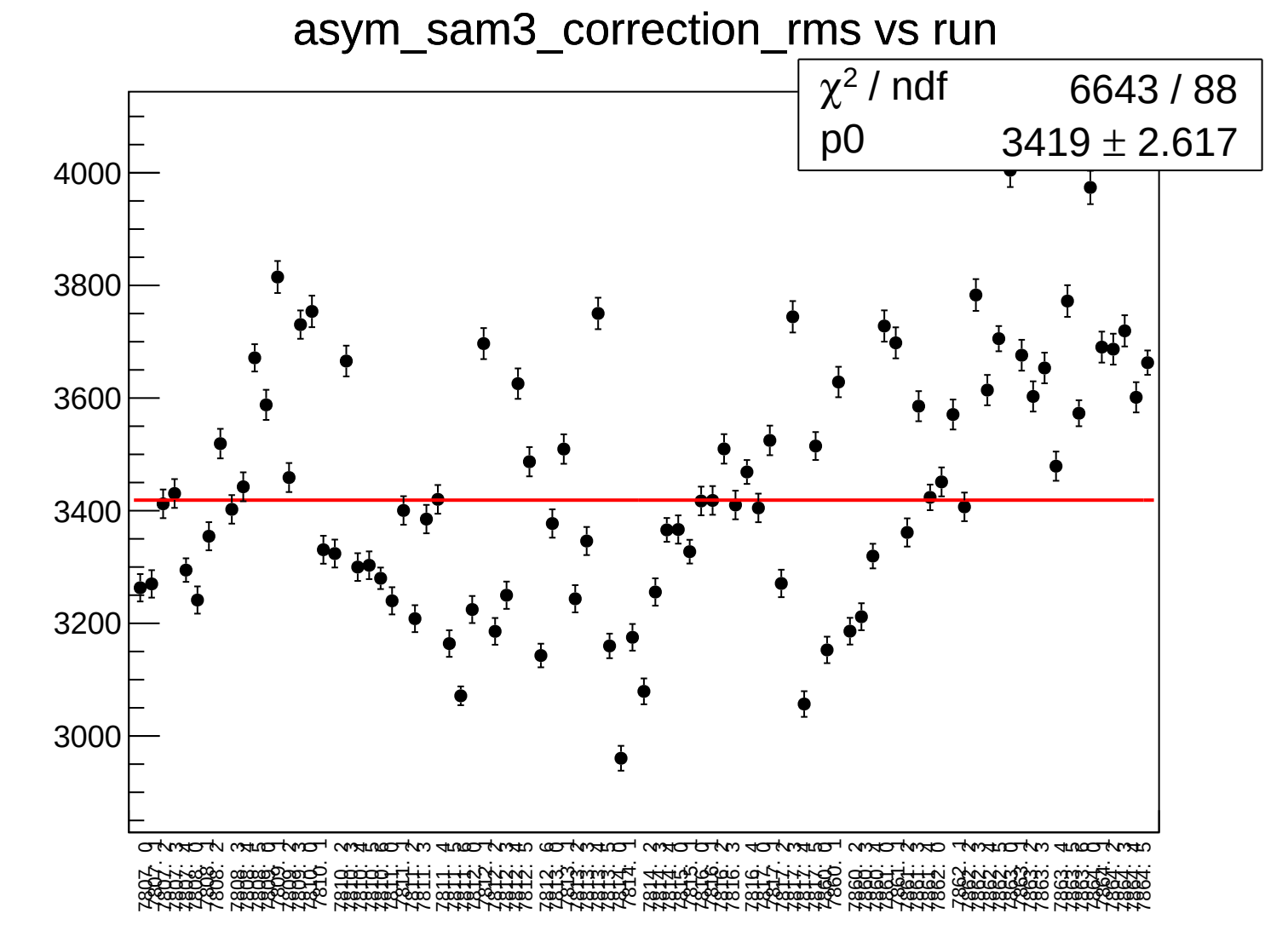

reg_asym_sam3_mean vs run
χ² / ndf 81.91 / 88
p0 −174.7 ± 444.9
pull
Entries 89
Mean 853.5
Std Dev 813.8

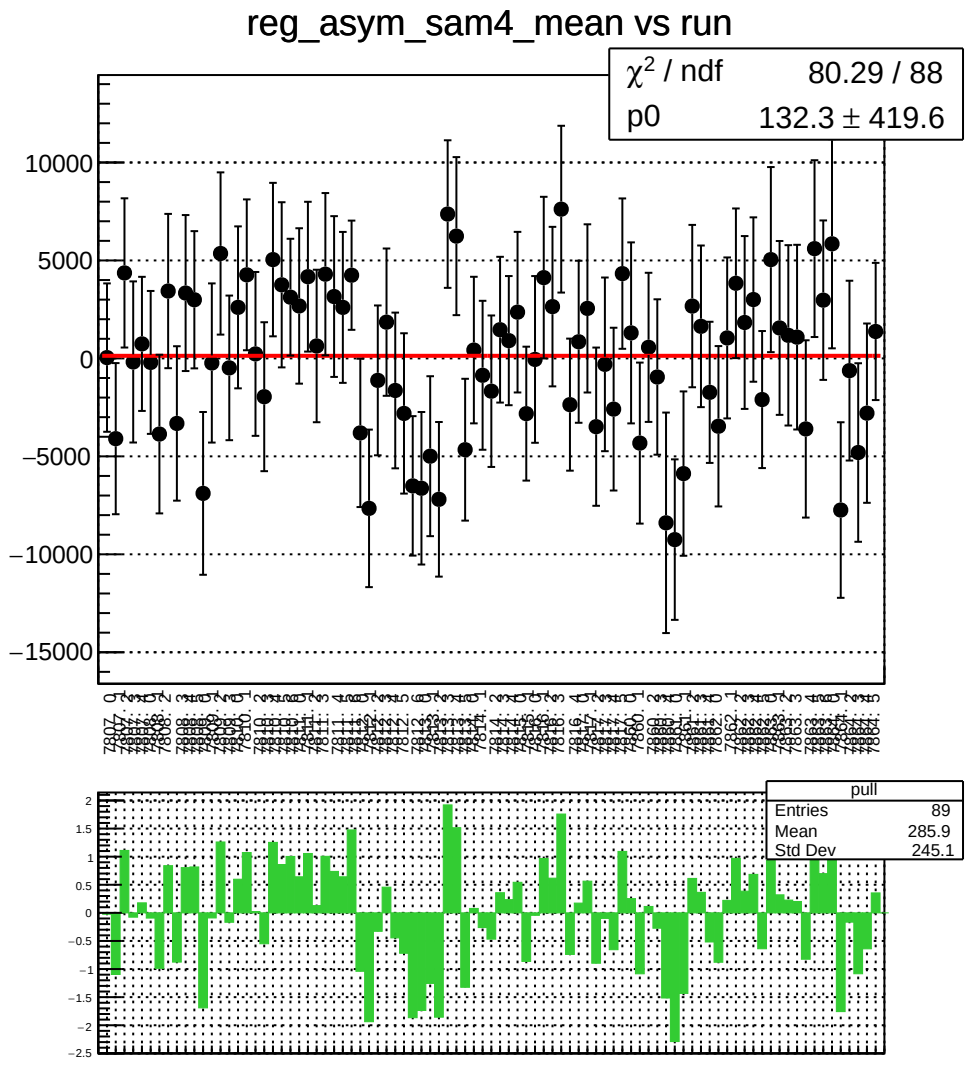

pull1D
Entries 89
Mean −0.001139
Std Dev 0.9593

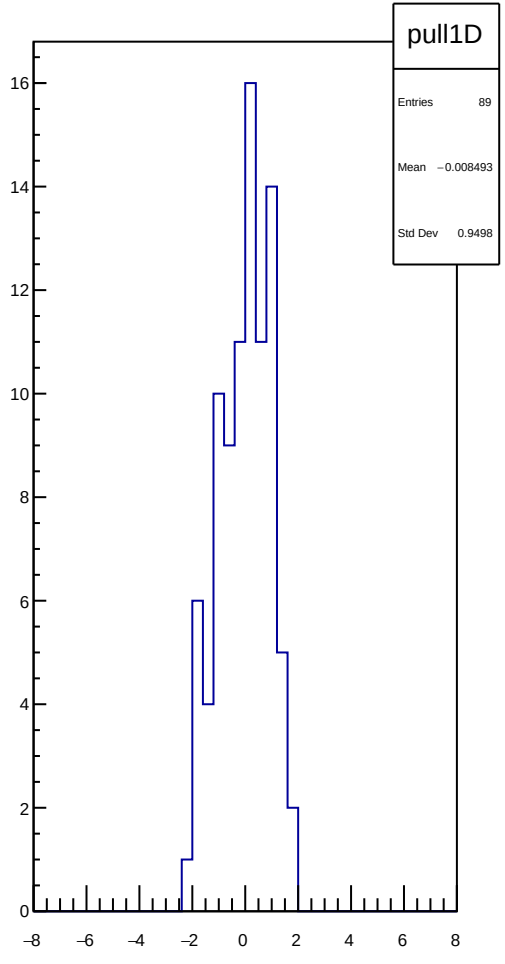

reg_asym_sam3_rms vs run
χ² / ndf 2.522e+04 / 88
p0 408.7 ± 0.3146
600
550
500
450
400
350

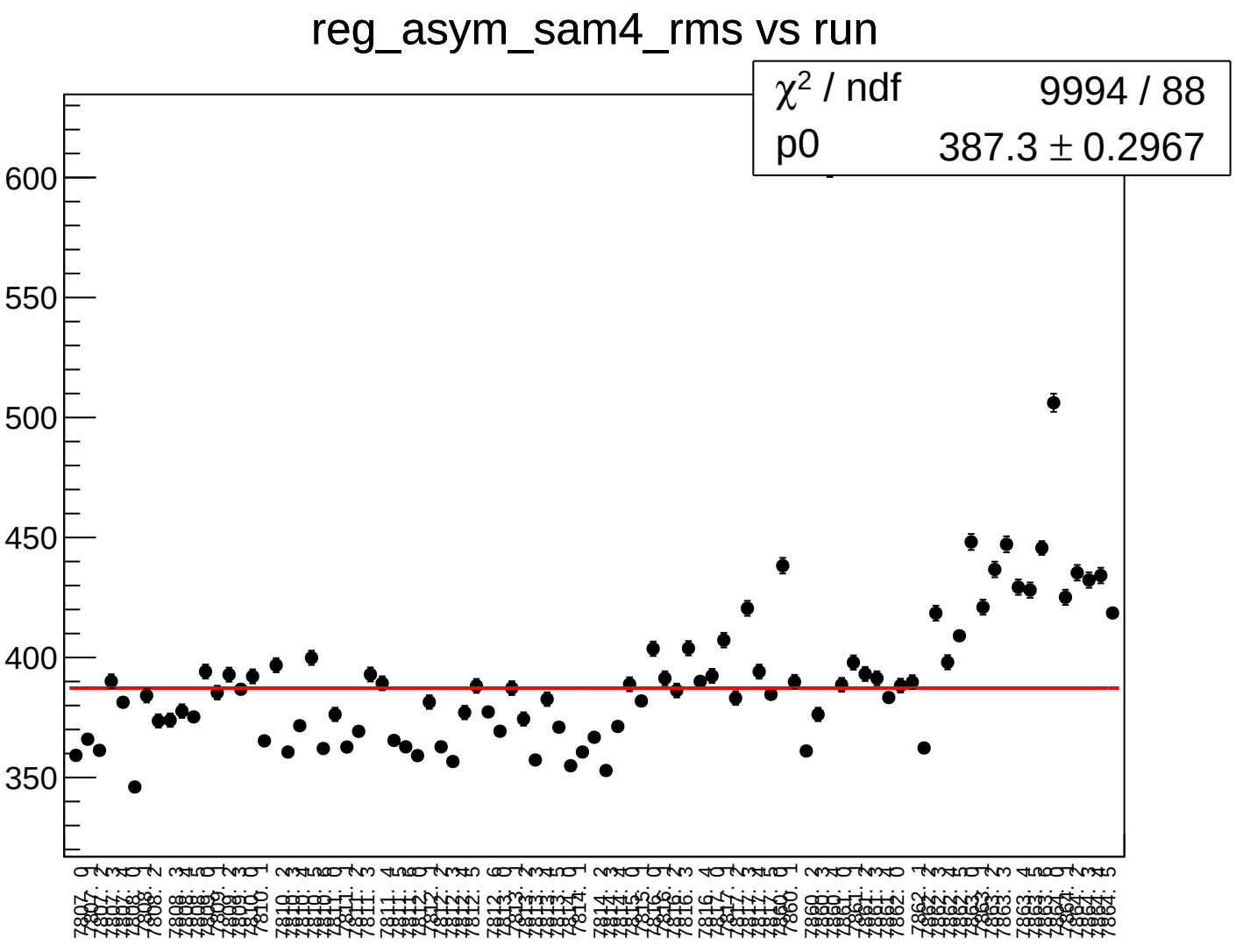

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 93.93 / 88
p0 −1728 ± 3701
100
50
0
−50
−100
−150
pull
Entries 89
Mean 88.8
Std Dev 20.63
2
1
0
−1
−2

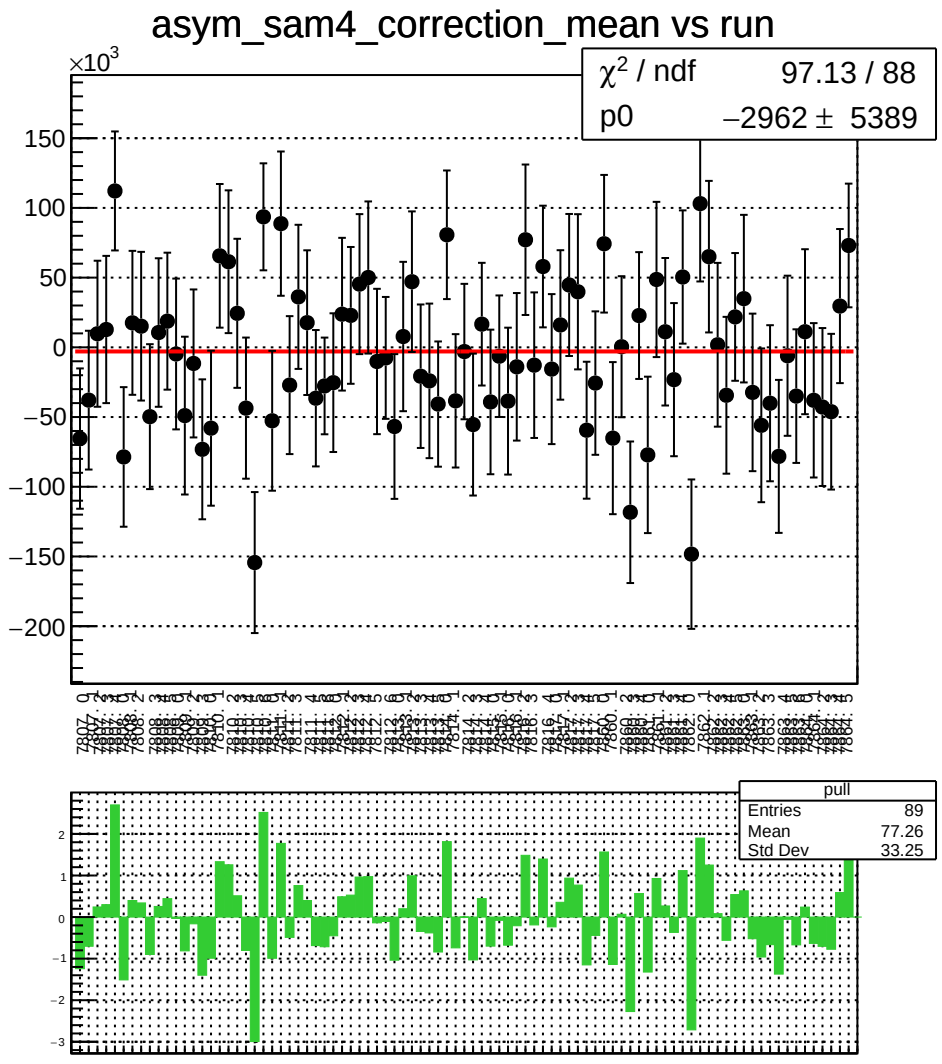

pull1D
Entries 89
Mean −0.01733
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

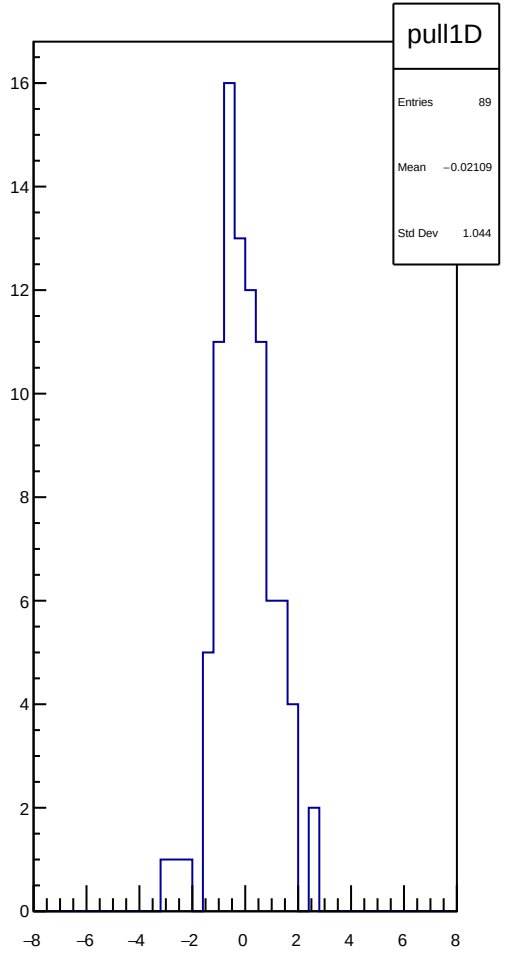

asym_sam3_correction_rms vs run
χ² / ndf 6643 / 88
p0 3419 ± 2.617
4000
3800
3600
3400
3200
3000

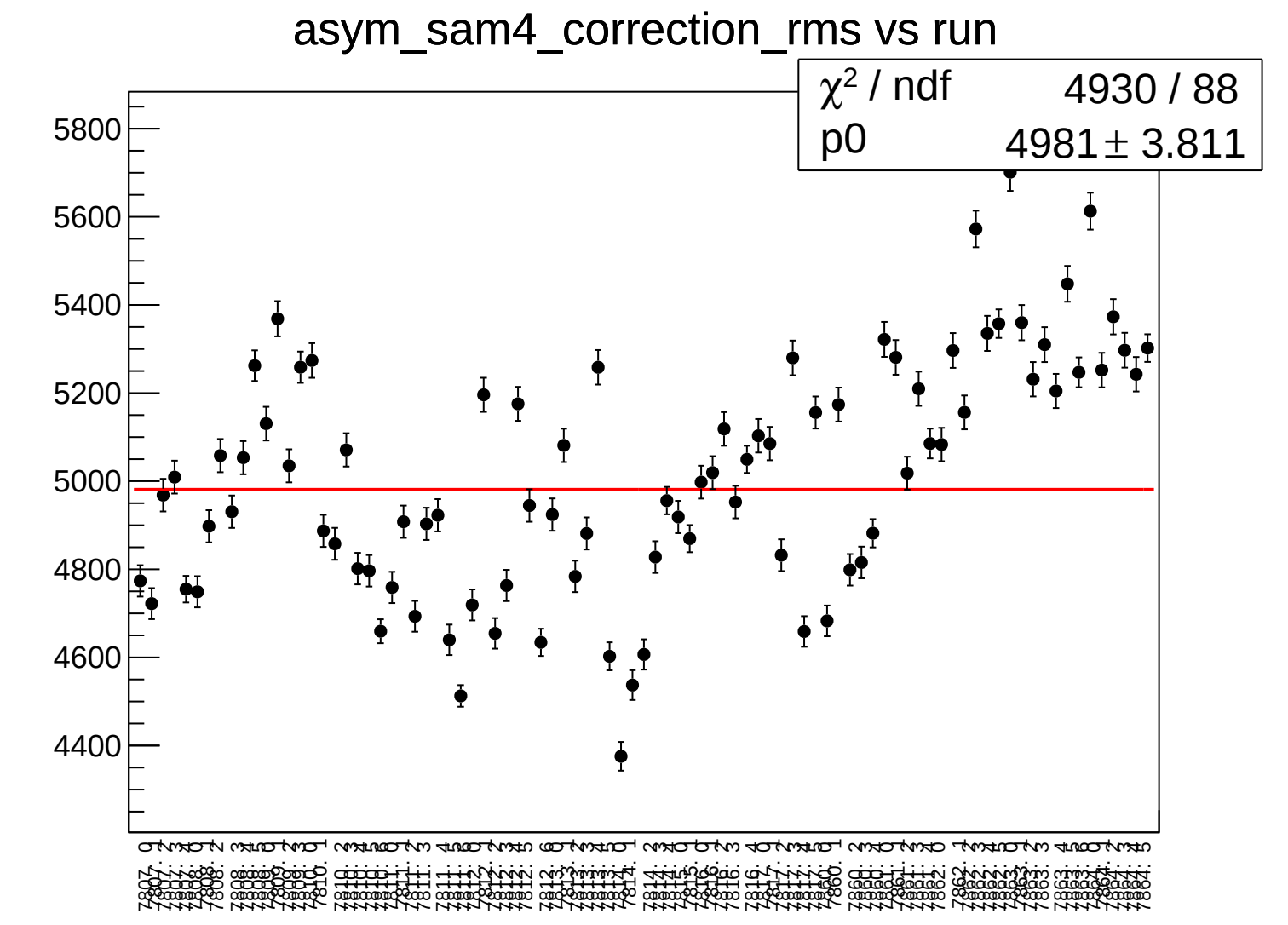

reg_asym_sam4_mean vs run
χ² / ndf 80.29 / 88
p0 132.3 ± 419.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 285.9
Std Dev 245.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

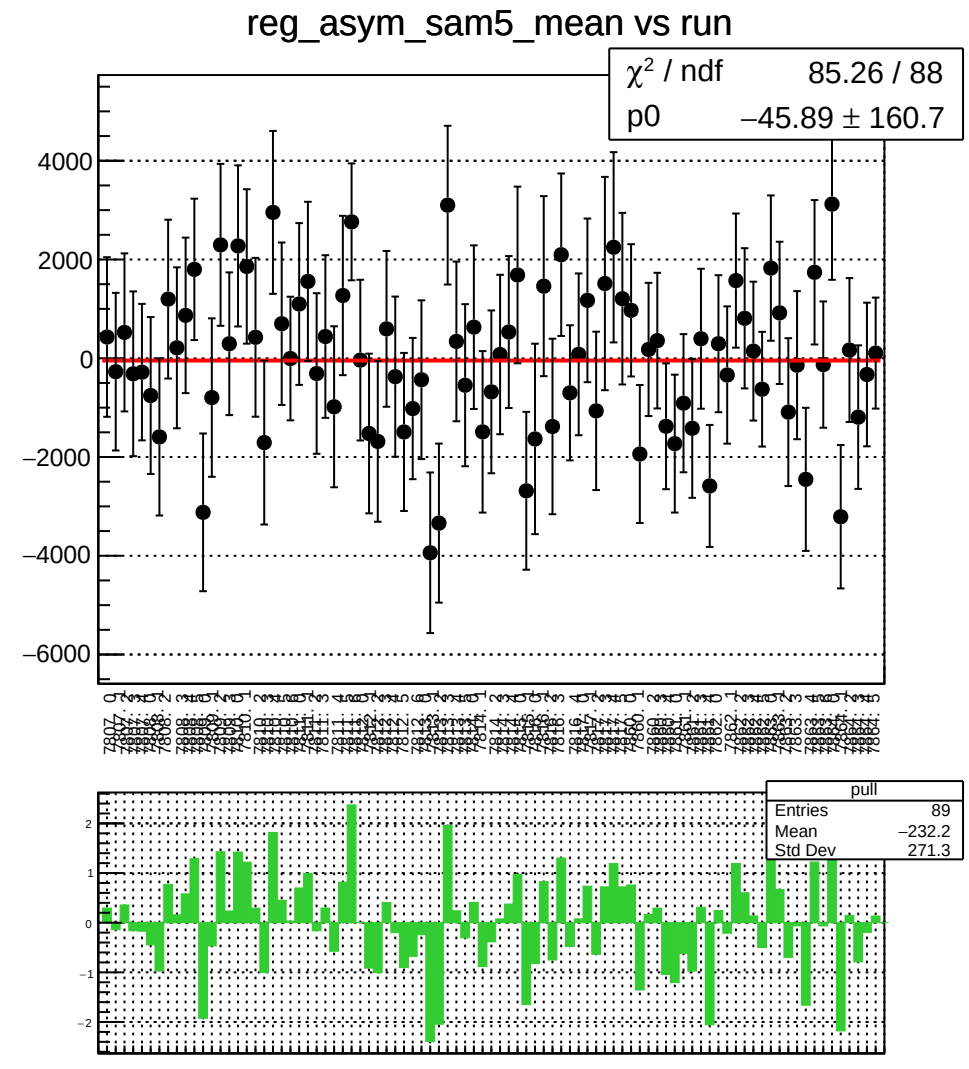

pull1D
Entries 89
Mean −0.008493
Std Dev 0.9498
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

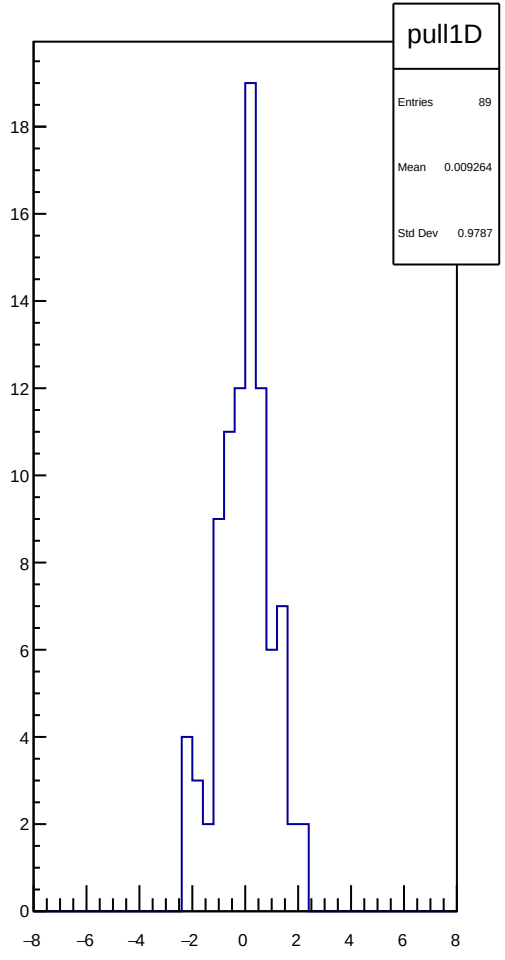

reg_asym_sam4_rms vs run
χ^2 / ndf 9994 / 88
p0 387.3 ± 0.2967
600
550
500
450
400
350

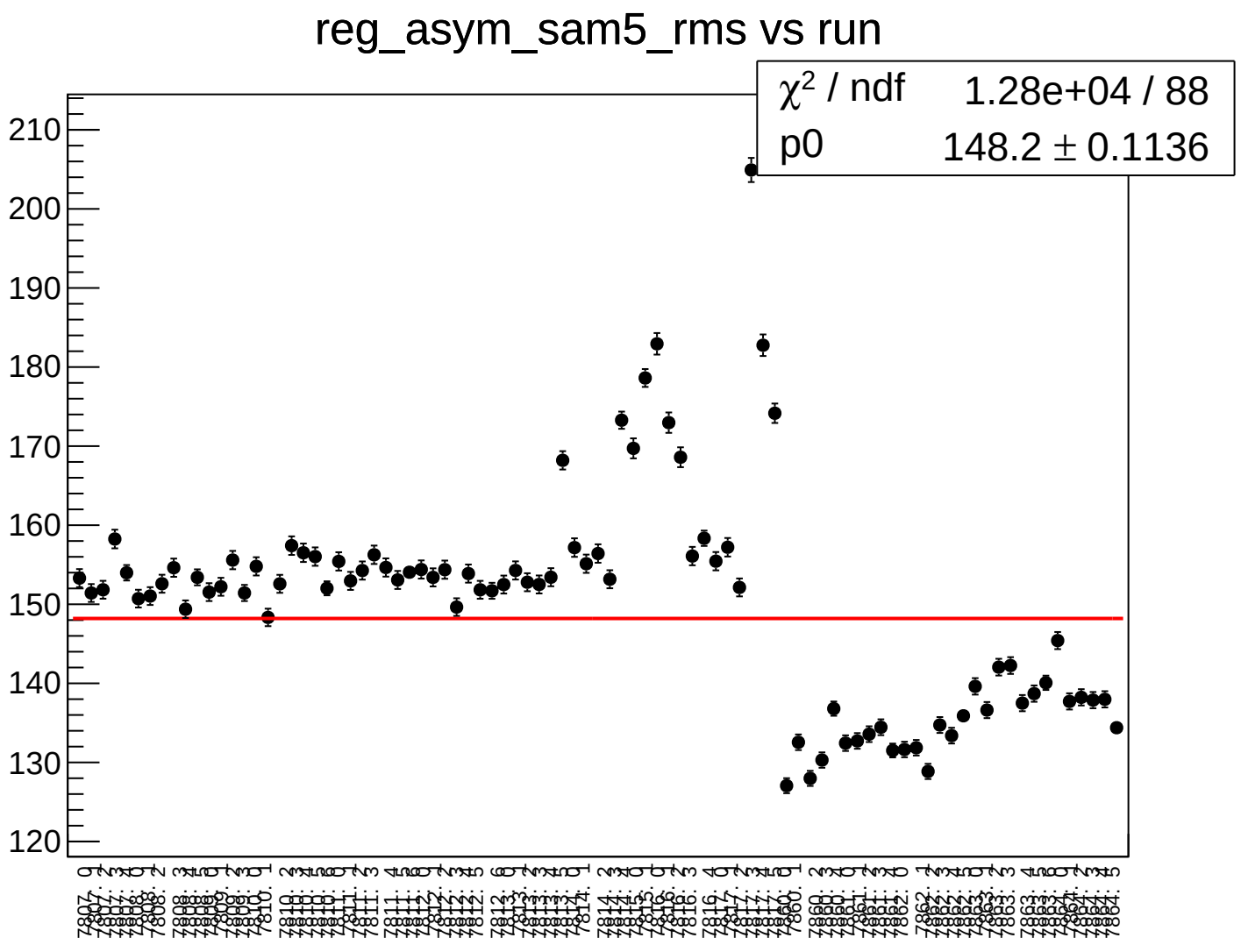

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 97.13 / 88
p0 −2962 ± 5389
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 77.26
Std Dev 33.25
2
1
0
−1
−2
−3

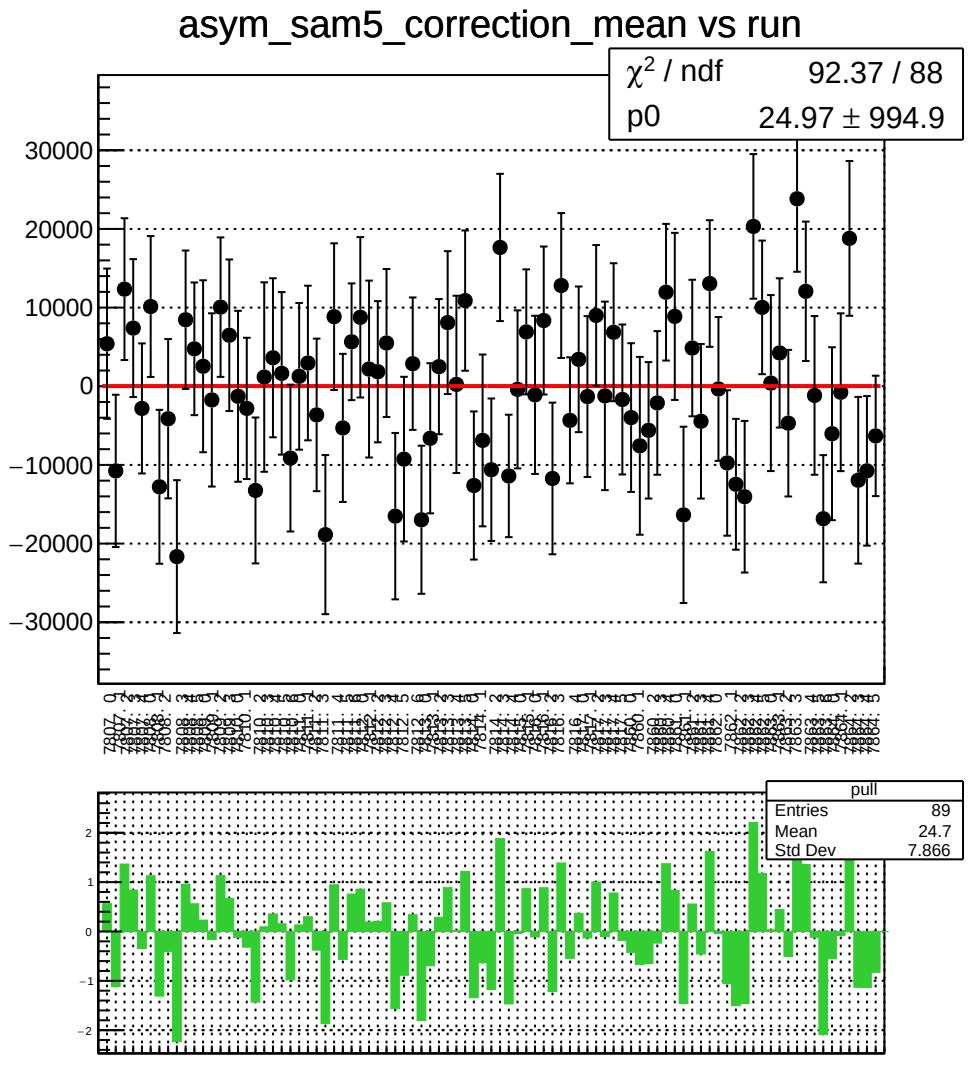

pull1D
Entries 89
Mean −0.02109
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

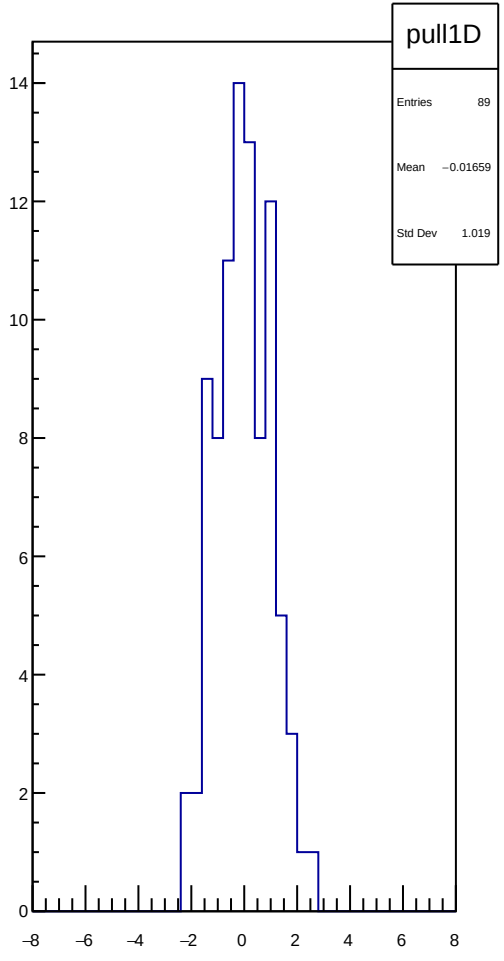

asym_sam4_correction_rms vs run
χ² / ndf 4930 / 88
p0 4981 ± 3.811
5800
5600
5400
5200
5000
4800
4600
4400

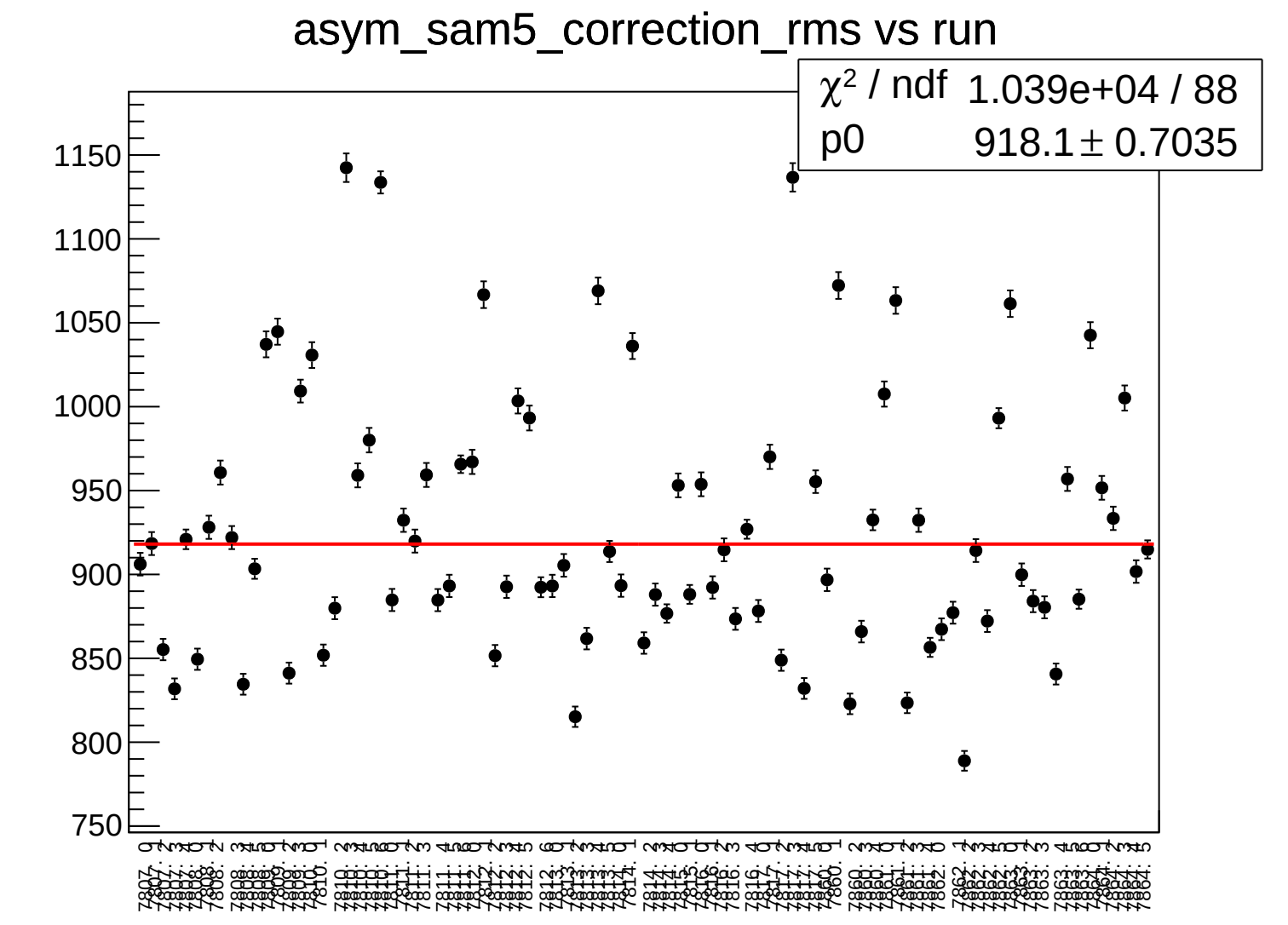

reg_asym_sam5_mean vs run
χ² / ndf 85.26 / 88
p0 −45.89 ± 160.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −232.2
Std Dev 271.3
2
1
0
−1
−2

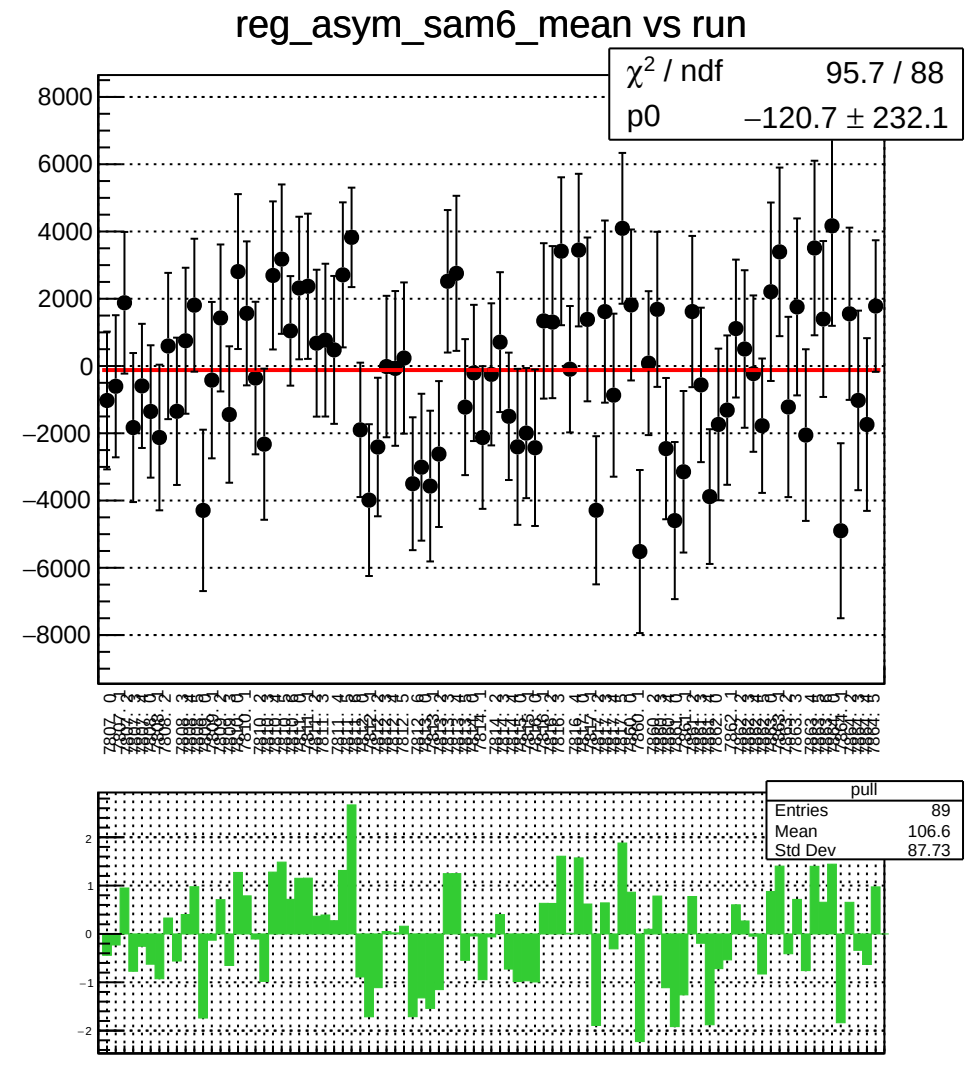

pull1D
Entries 89
Mean 0.009264
Std Dev 0.9787
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

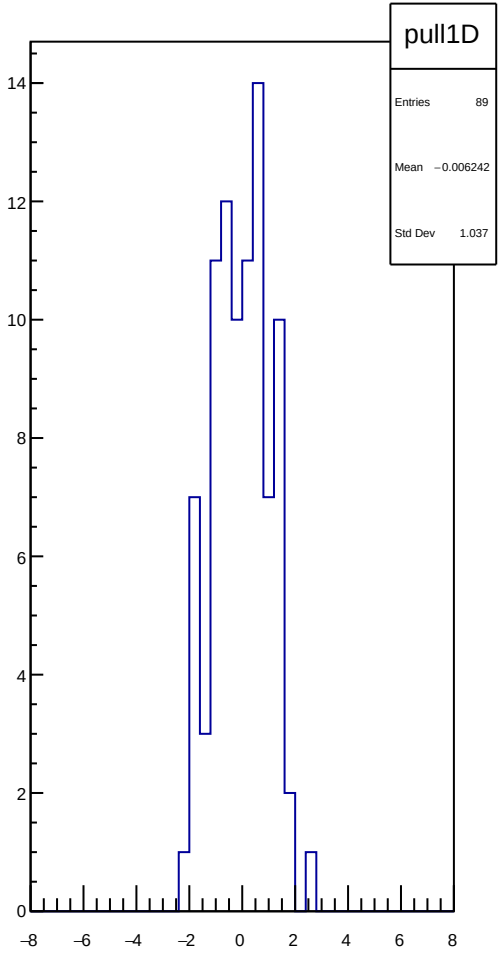

reg_asym_sam5_rms vs run
χ² / ndf 1.28e+04 / 88
p0 148.2 ± 0.1136
210
200
190
180
170
160
150
140
130
120

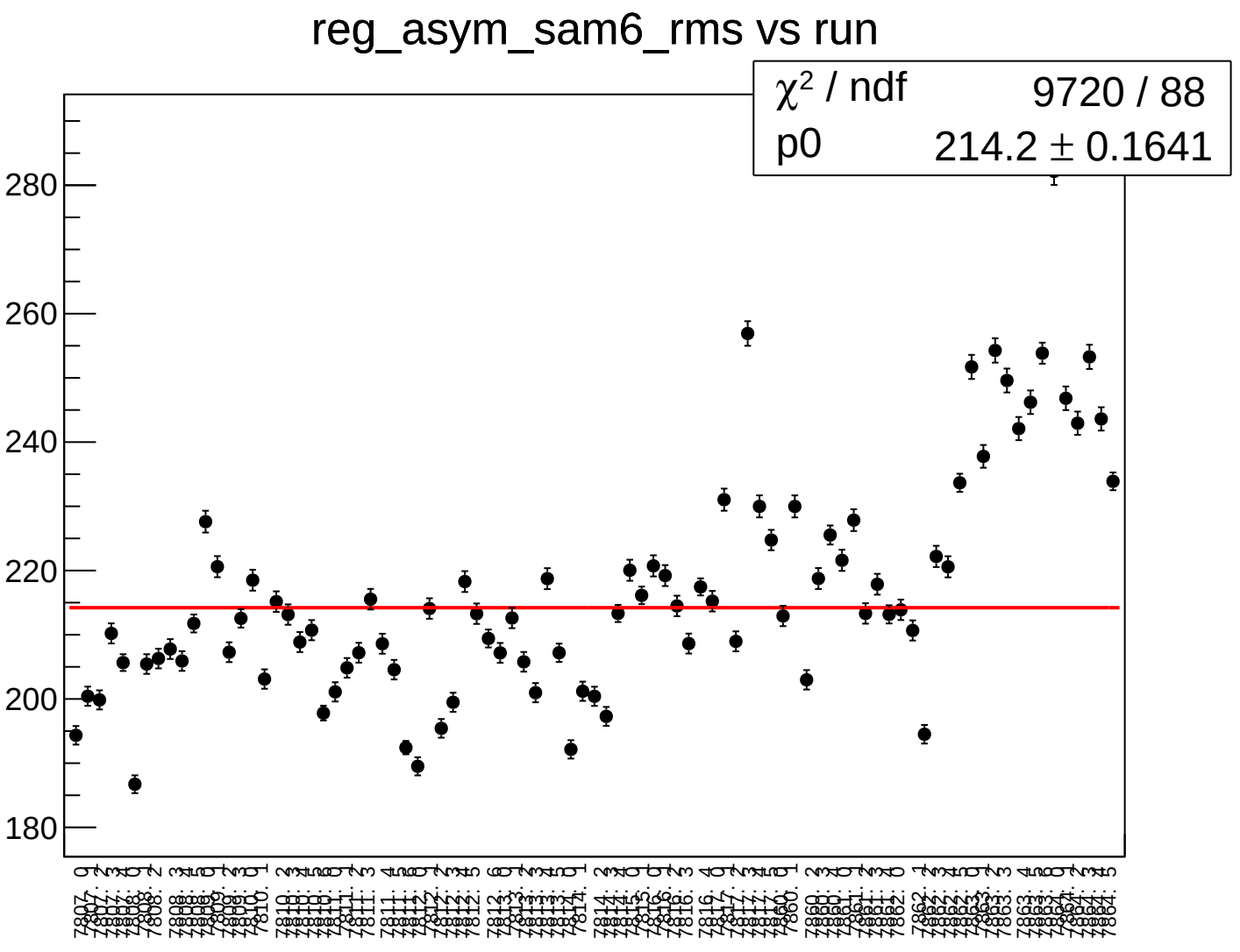

asym_sam5_correction_mean vs run
χ² / ndf 92.37 / 88
p0 24.97 ± 994.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 24.7
Std Dev 7.866
2
1
0
−1
−2

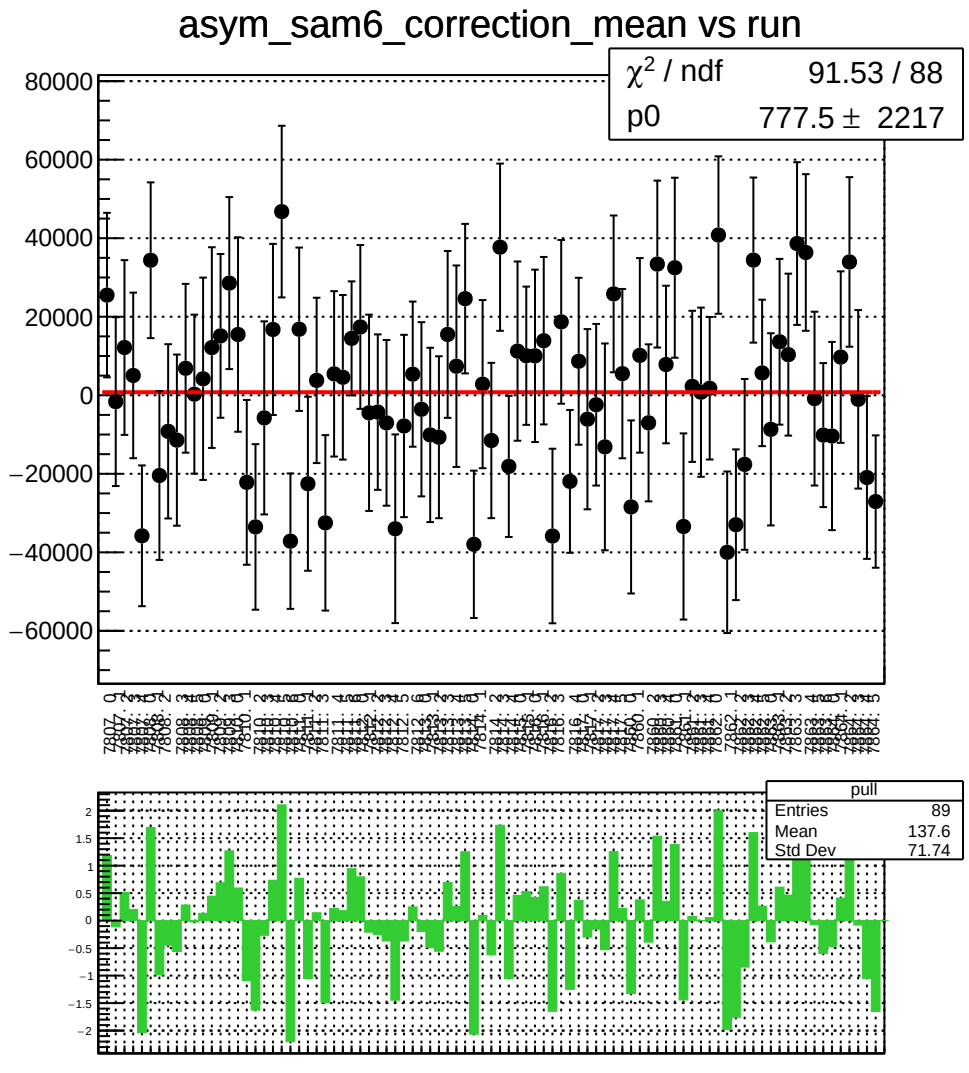

pull1D
Entries 89
Mean −0.01659
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

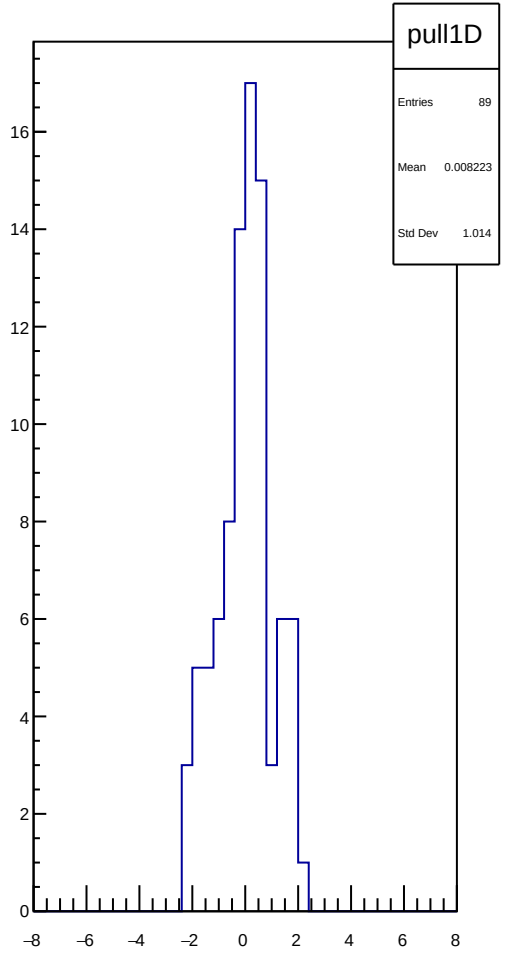

asym_sam5_correction_rms vs run
χ² / ndf 1.039e+04 / 88
p0 918.1 ± 0.7035
1150
1100
1050
1000
950
900
850
800
750

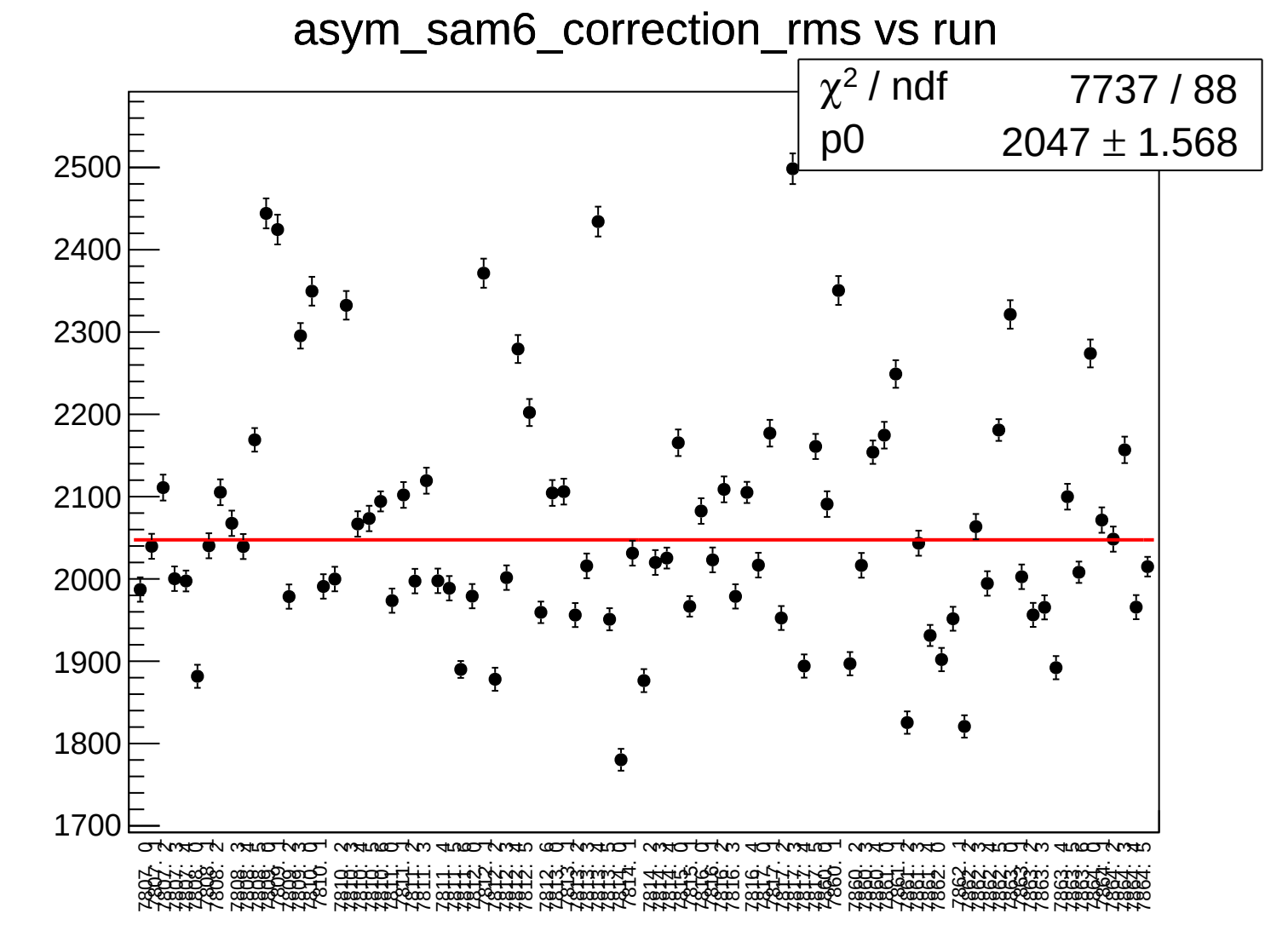

reg_asym_sam6_mean vs run
χ² / ndf 95.7 / 88
p0 −120.7 ± 232.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean 106.6
Std Dev 87.73
2
1
0
−1
−2

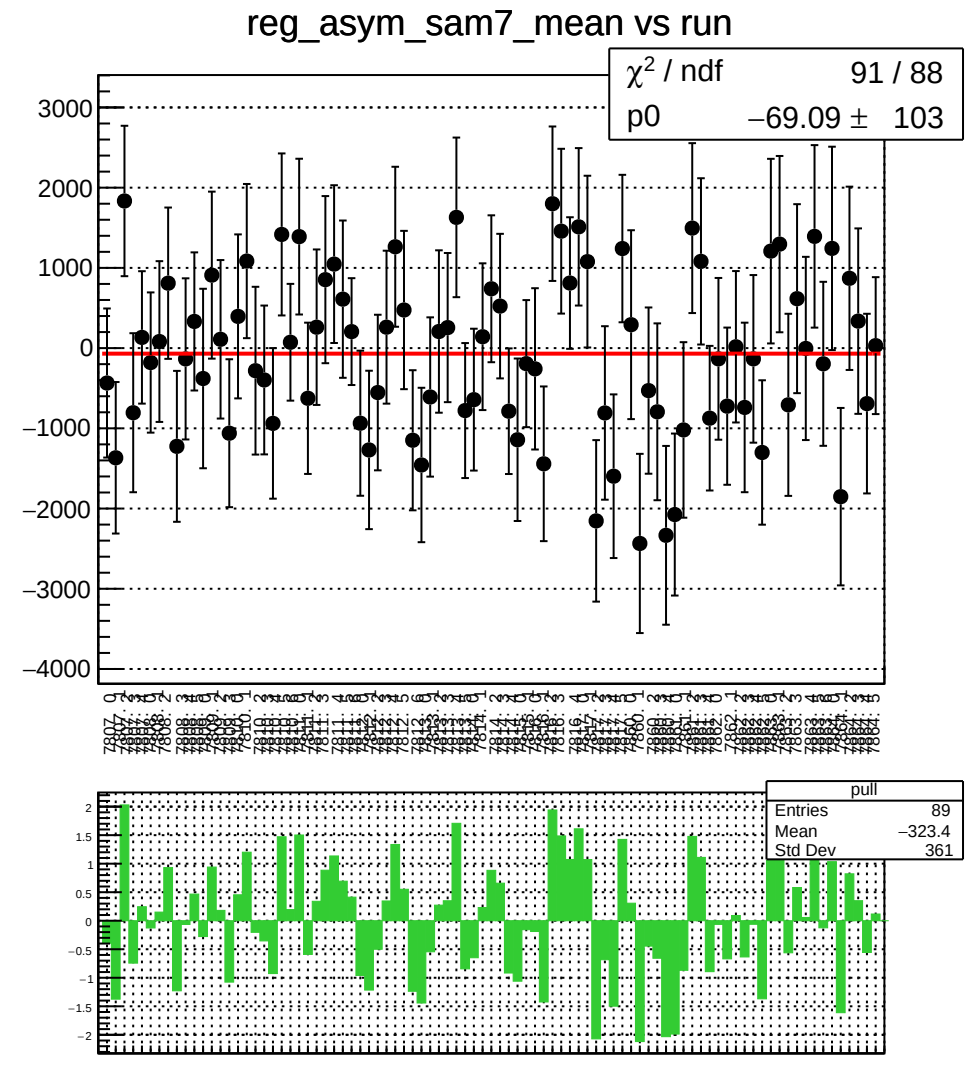

pull1D
Entries 89
Mean −0.006242
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

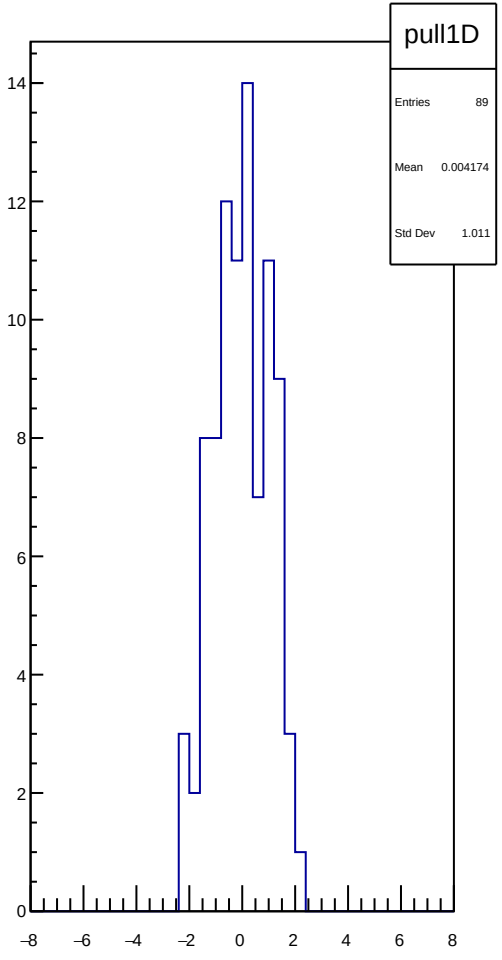

reg_asym_sam6_rms vs run
χ² / ndf 9720 / 88
p0 214.2 ± 0.1641
280
260
240
220
200
180

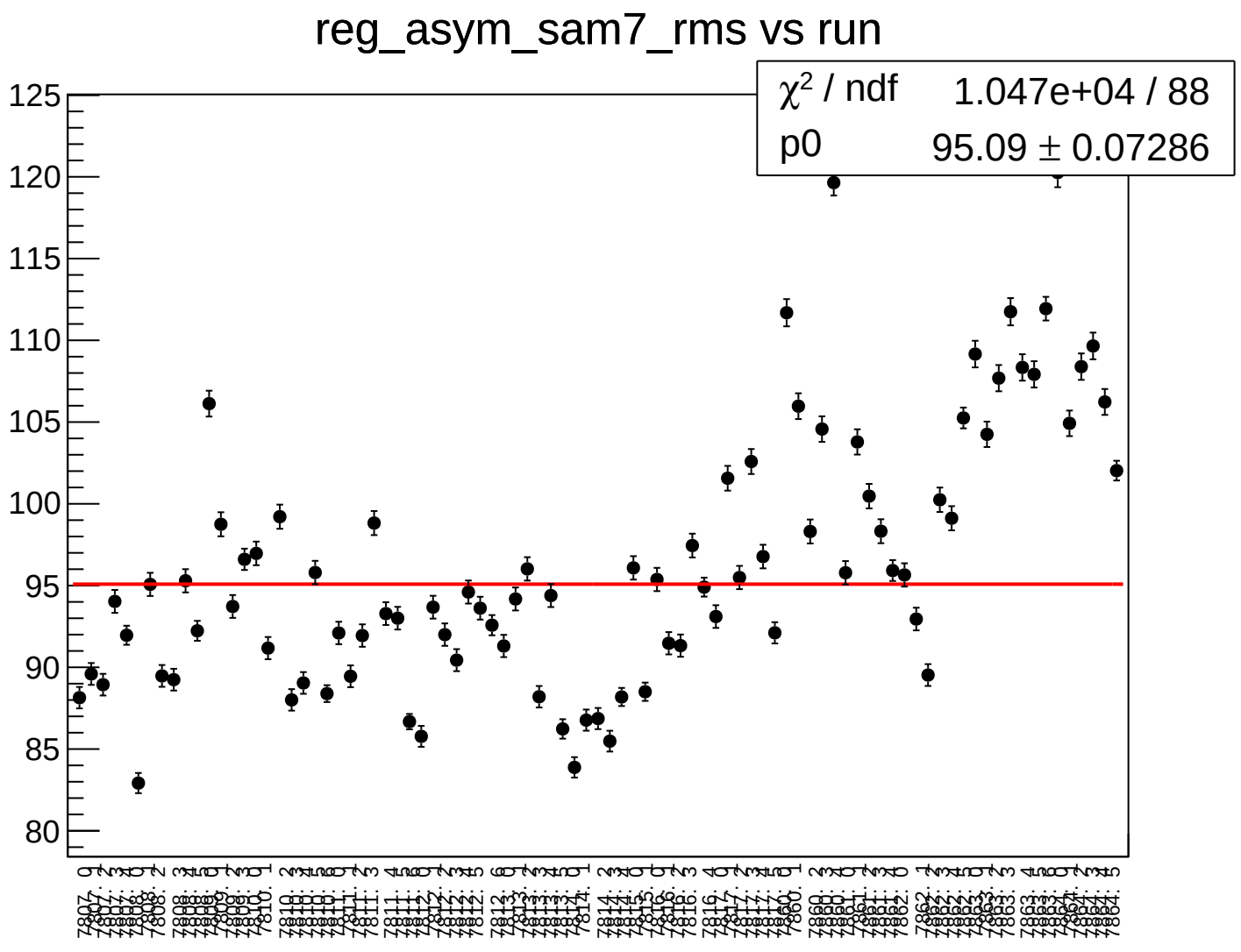

asym_sam6_correction_mean vs run
χ² / ndf 91.53 / 88
p0 777.5 ± 2217
pull
Entries 89
Mean 137.6
Std Dev 71.74

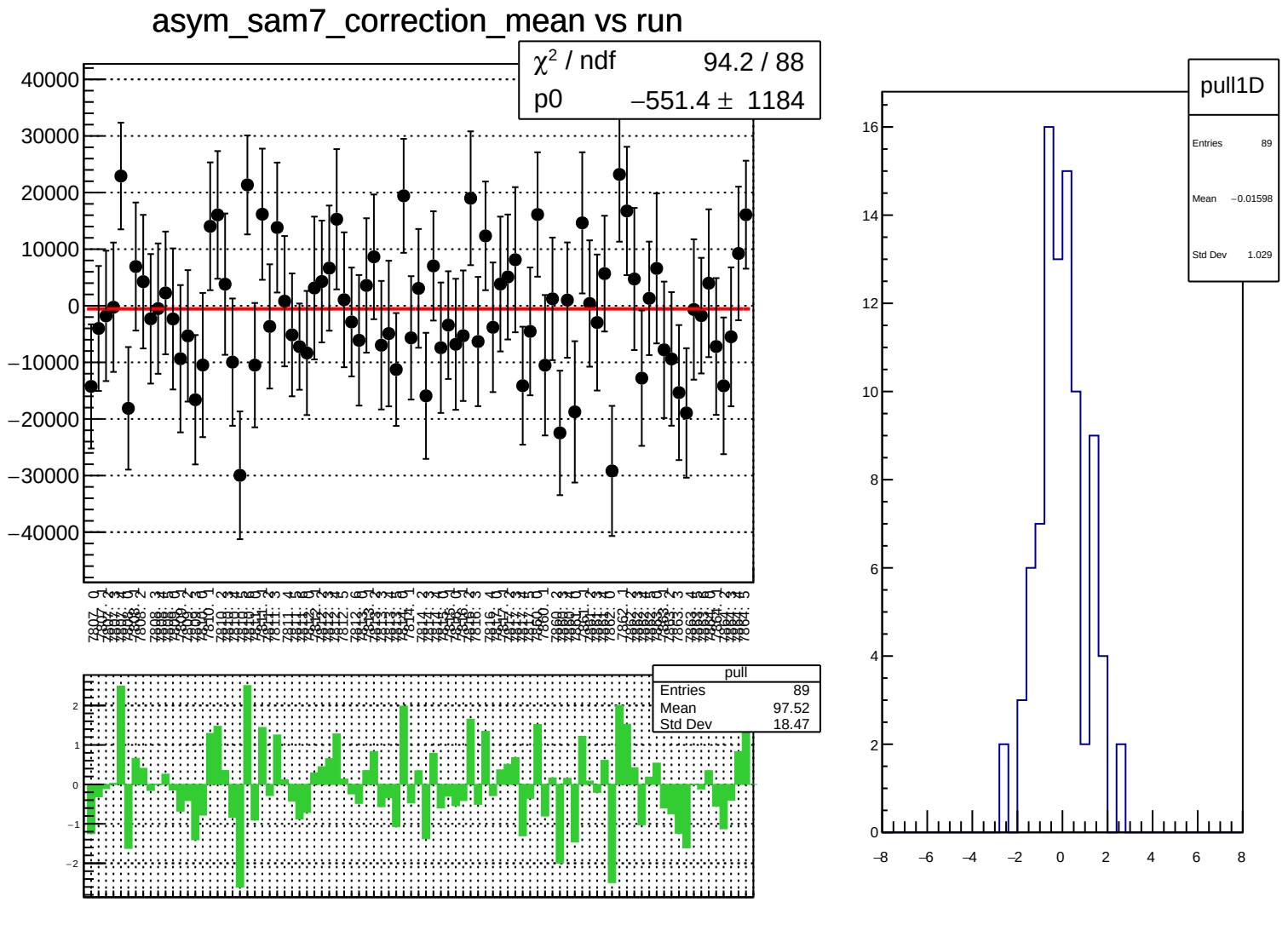

pull1D
Entries 89
Mean 0.008223
Std Dev 1.014

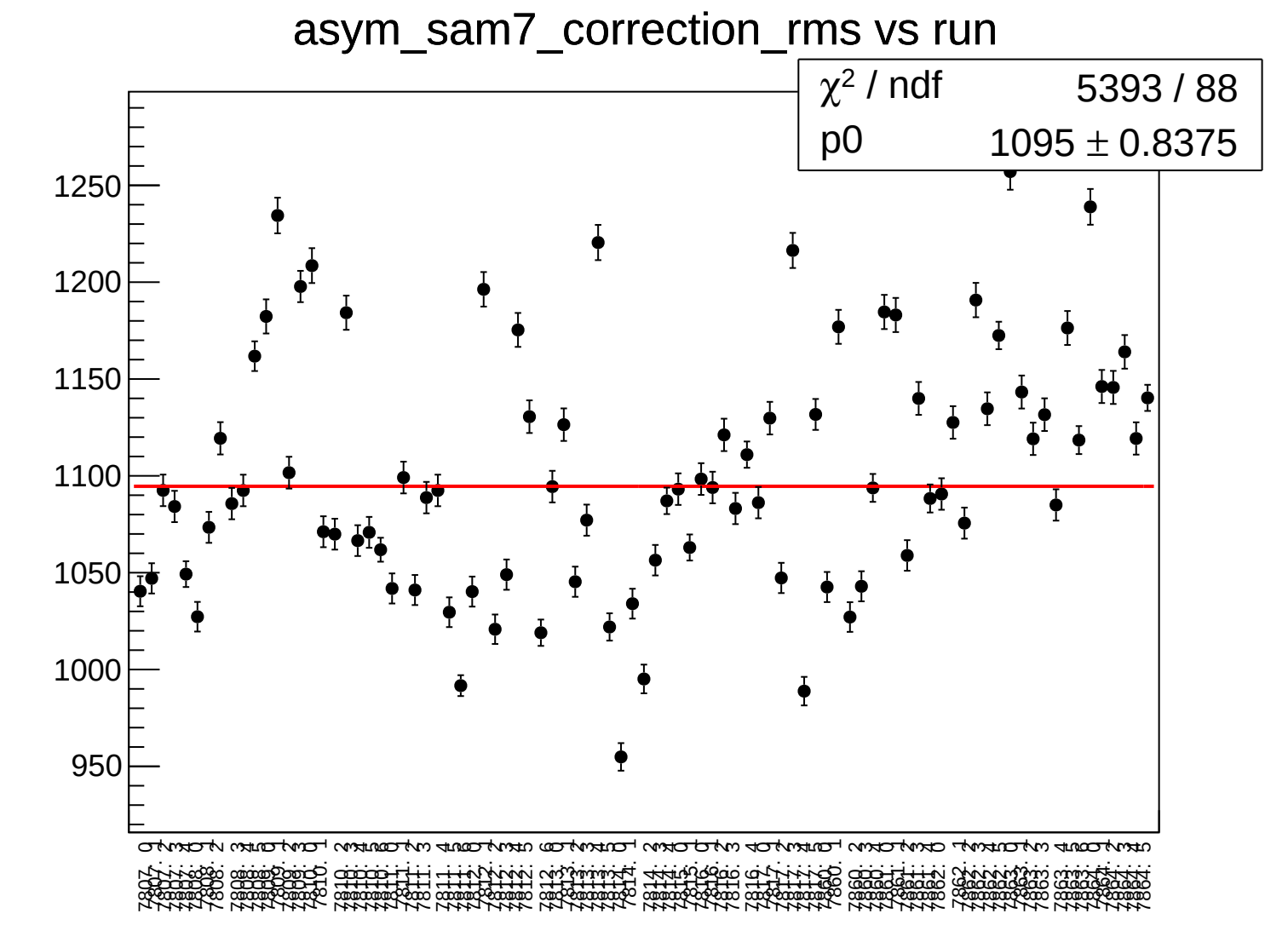

asym_sam6_correction_rms vs run
χ² / ndf 7737 / 88
p0 2047 ± 1.568
2500
2400
2300
2200
2100
2000
1900
1800
1700

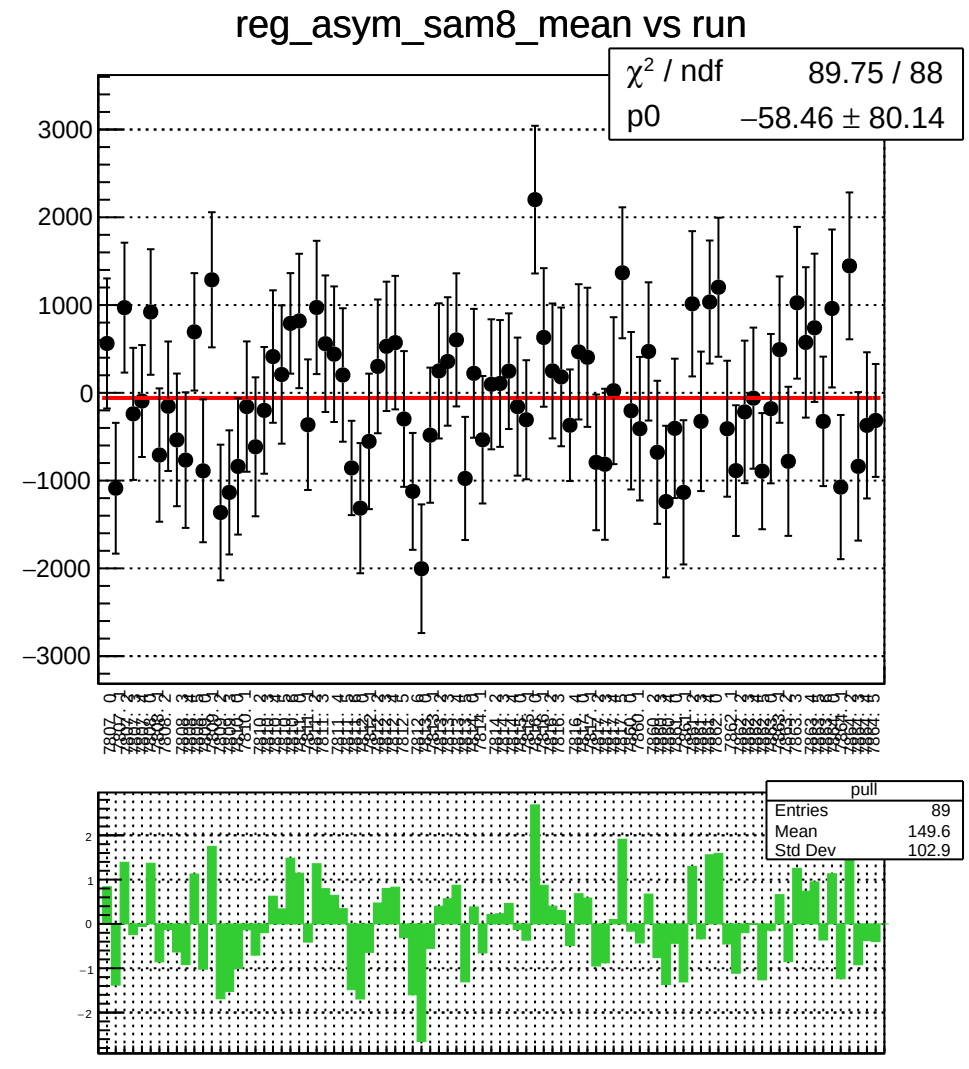

reg_asym_sam7_mean vs run
χ² / ndf 91 / 88
p0 −69.09 ± 103
pull
Entries 89
Mean −323.4
Std Dev 361

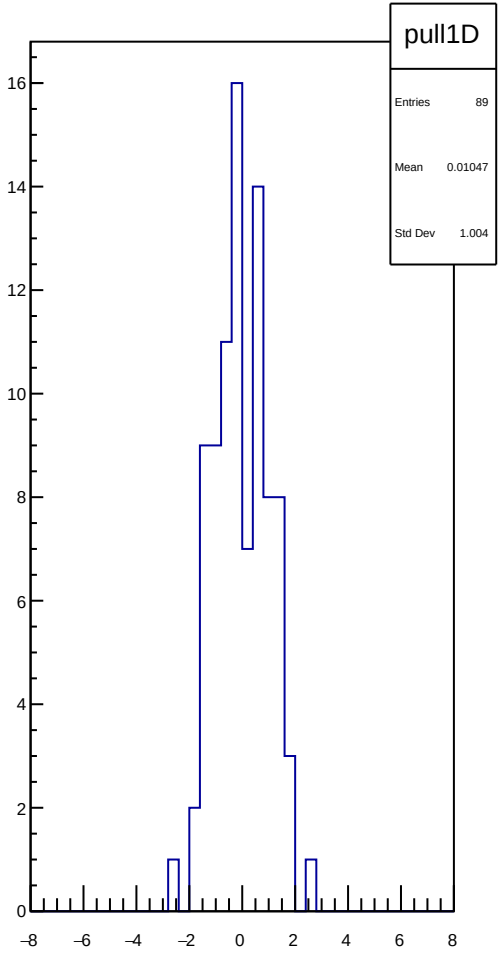

pull1D
Entries 89
Mean 0.004174
Std Dev 1.011

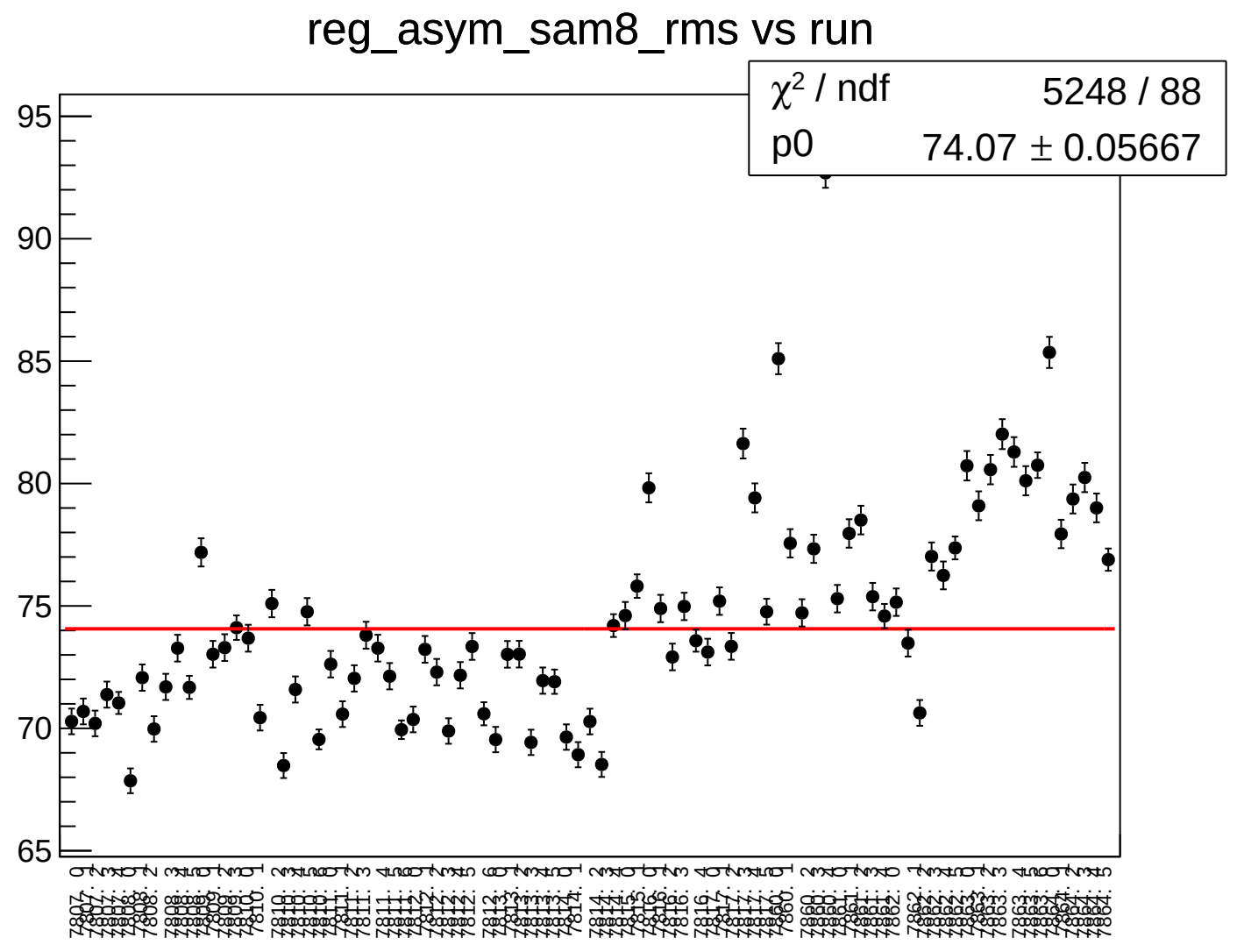

reg_asym_sam7_rms vs run
χ^2 / ndf 1.047e+04 / 88
p0 95.09 ± 0.07286
125
120
115
110
105
100
95
90
85
80

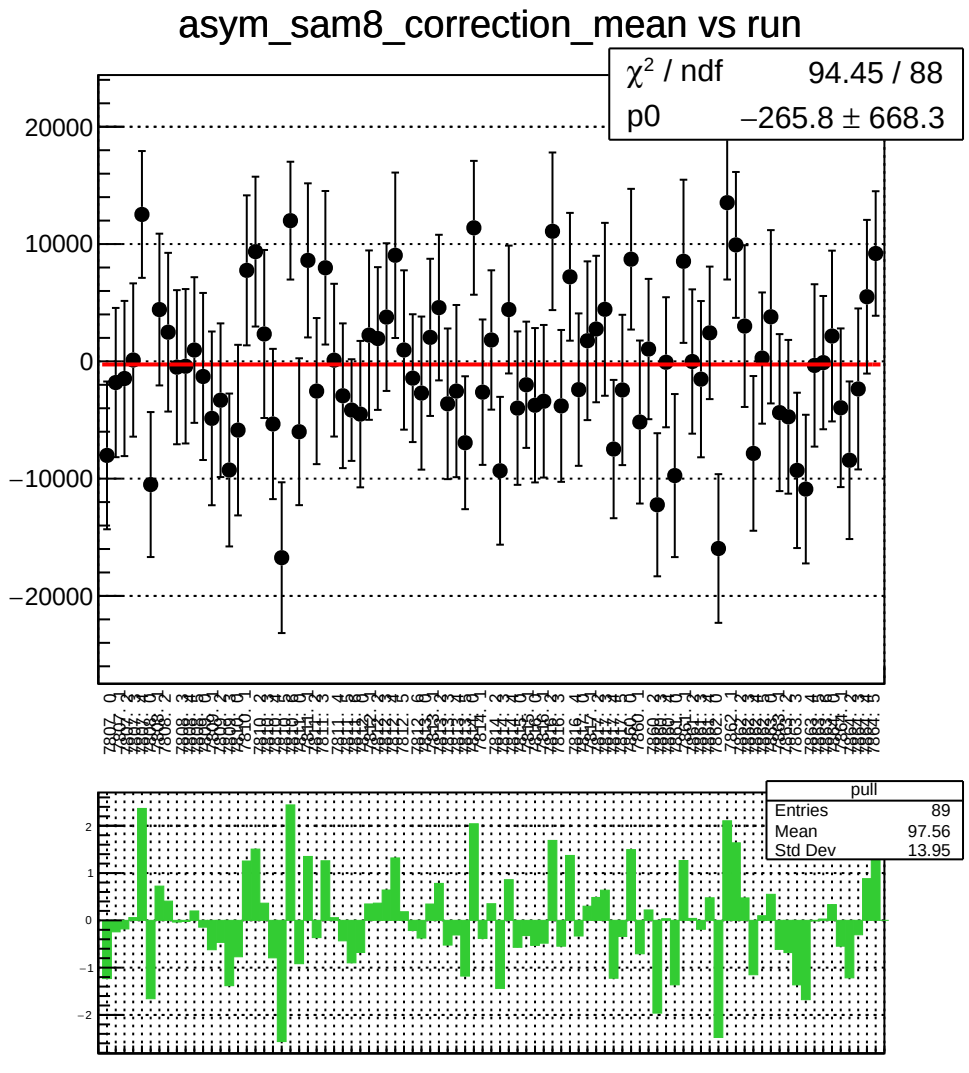

asym_sam7_correction_mean vs run
χ² / ndf 94.2 / 88
p0 −551.4 ± 1184
pull
Entries 89
Mean 97.52
Std Dev 18.47
pull1D
Entries 89
Mean −0.01598
Std Dev 1.029

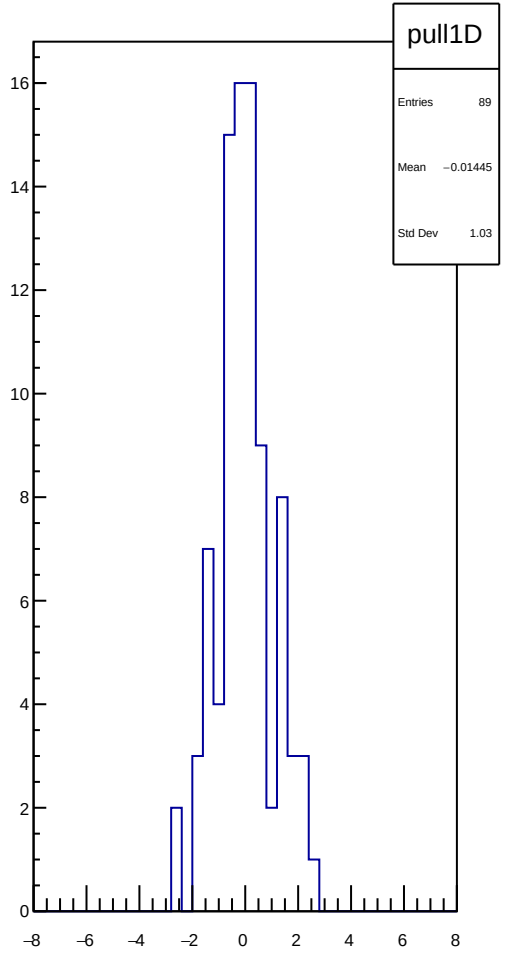

asym_sam7_correction_rms vs run
χ² / ndf 5393 / 88
p0 1095 ± 0.8375
1250
1200
1150
1100
1050
1000
950

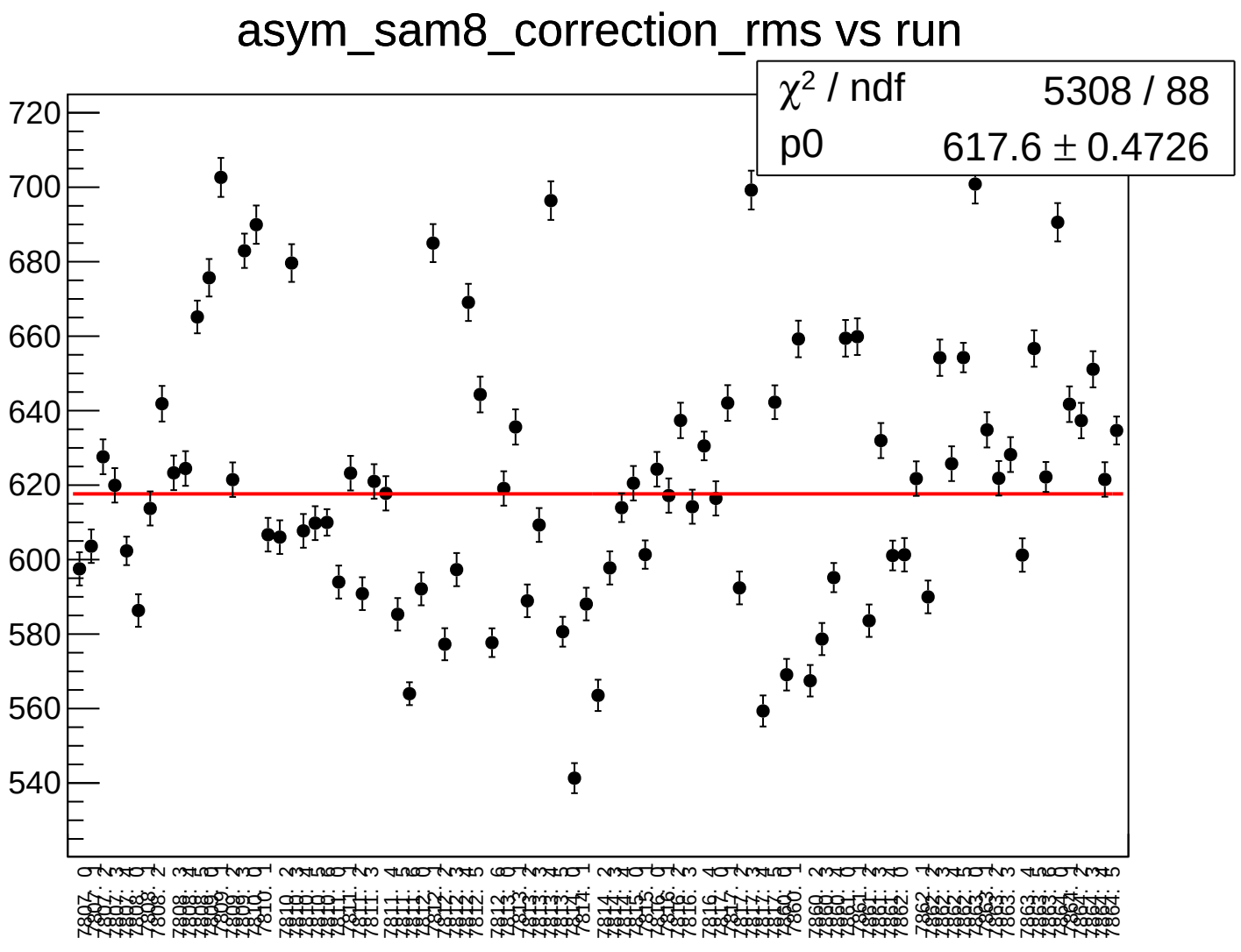

reg_asym_sam8_mean vs run
χ² / ndf 89.75 / 88
p0 −58.46 ± 80.14
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 149.6
Std Dev 102.9
2
1
0
−1
−2

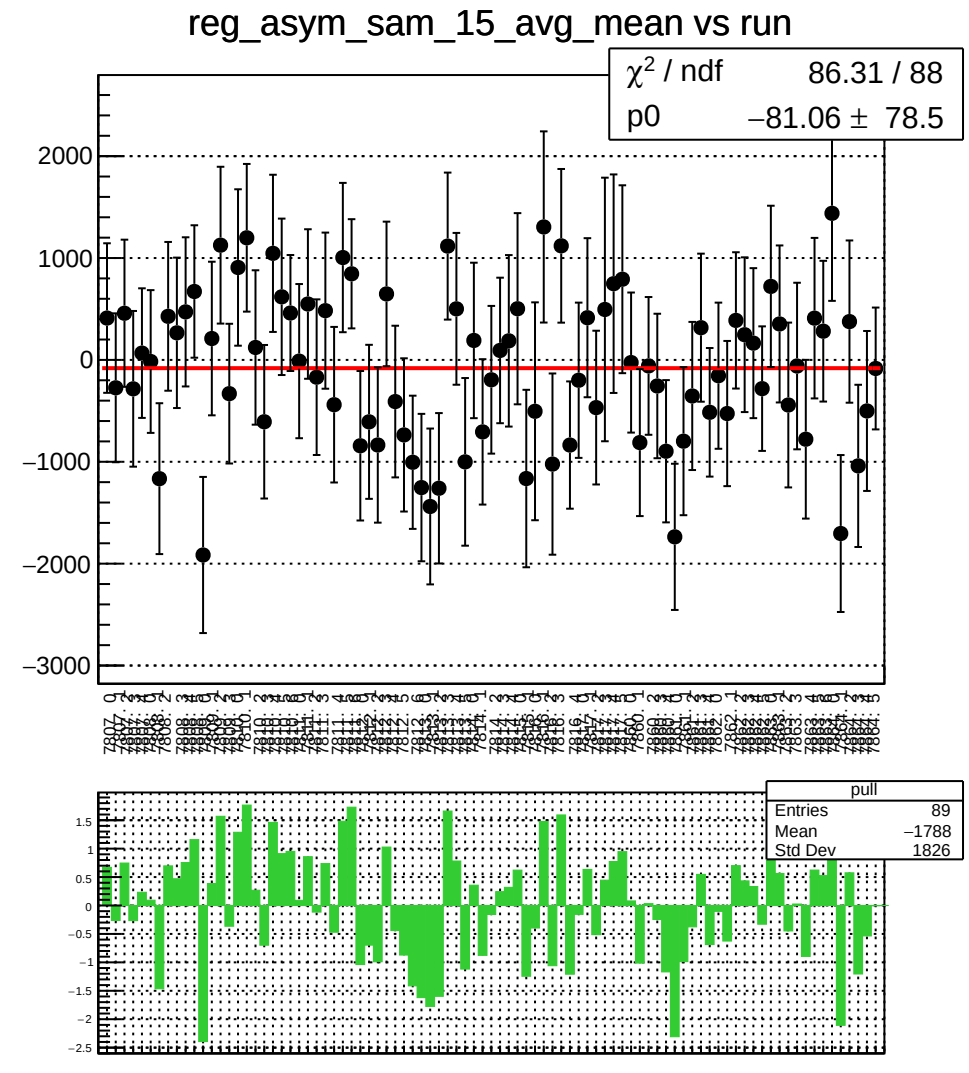

pull1D
Entries 89
Mean 0.01047
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

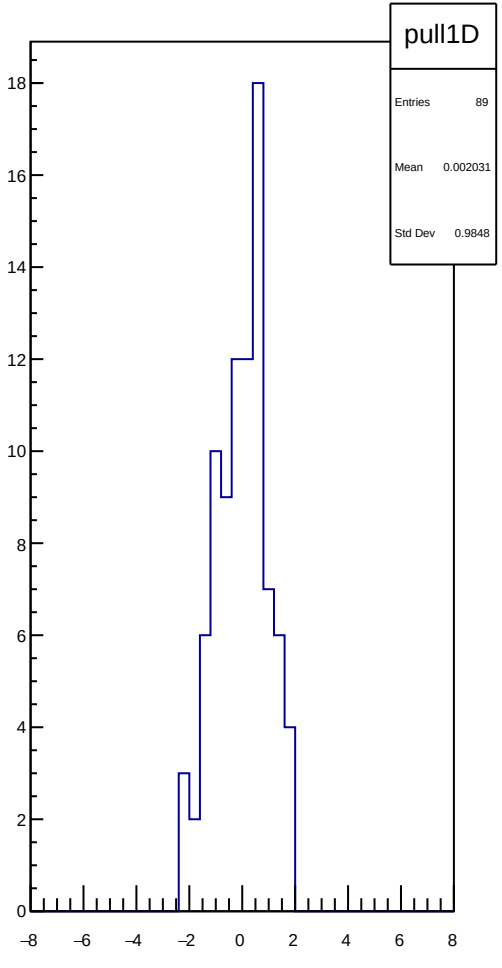

reg_asym_sam8_rms vs run
χ^2 / ndf 5248 / 88
p0 74.07 ± 0.05667
95
90
85
80
75
70
65

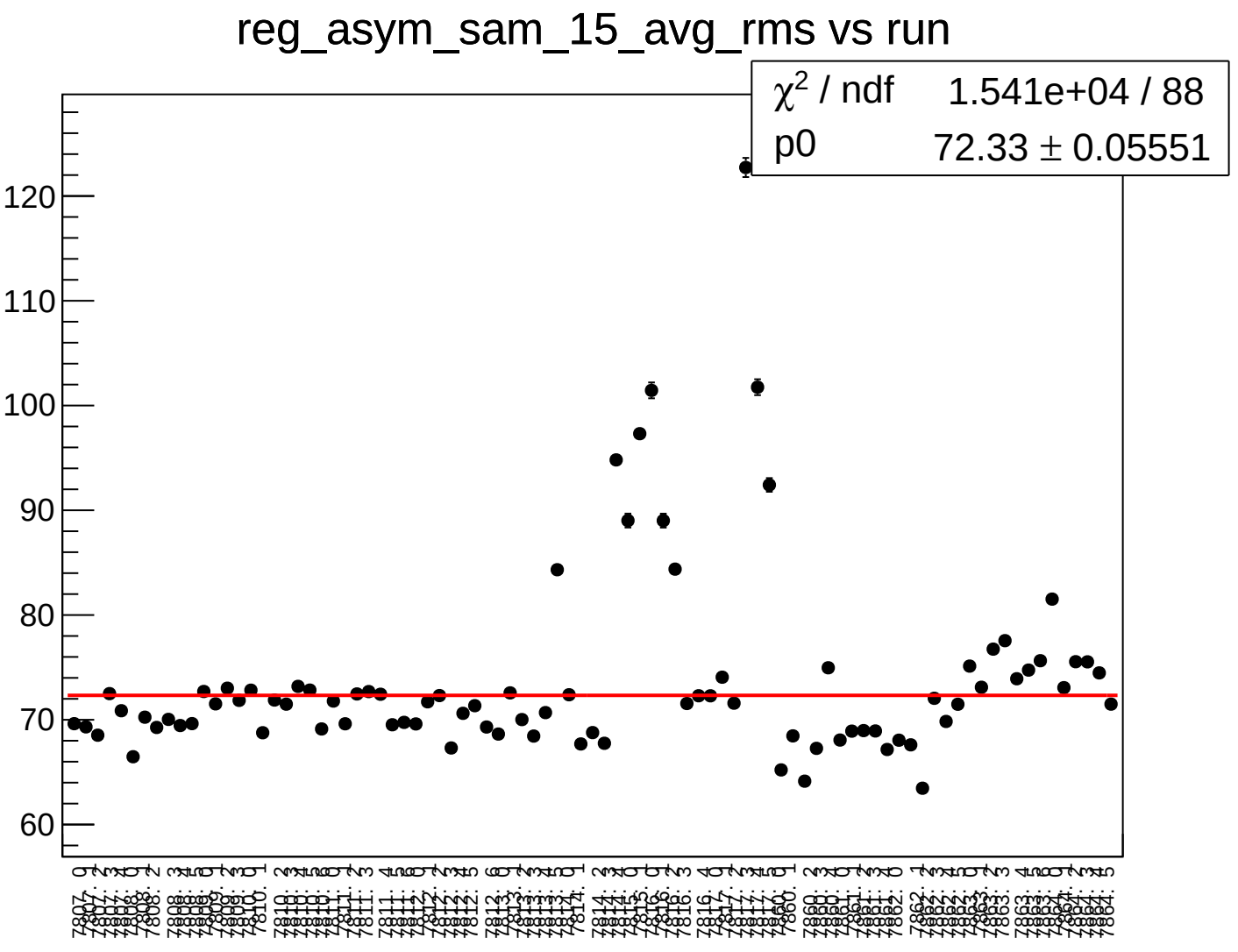

asym_sam8_correction_mean vs run
χ² / ndf 94.45 / 88
p0 −265.8 ± 668.3
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 97.56
Std Dev 13.95
2
1
0
−1
−2

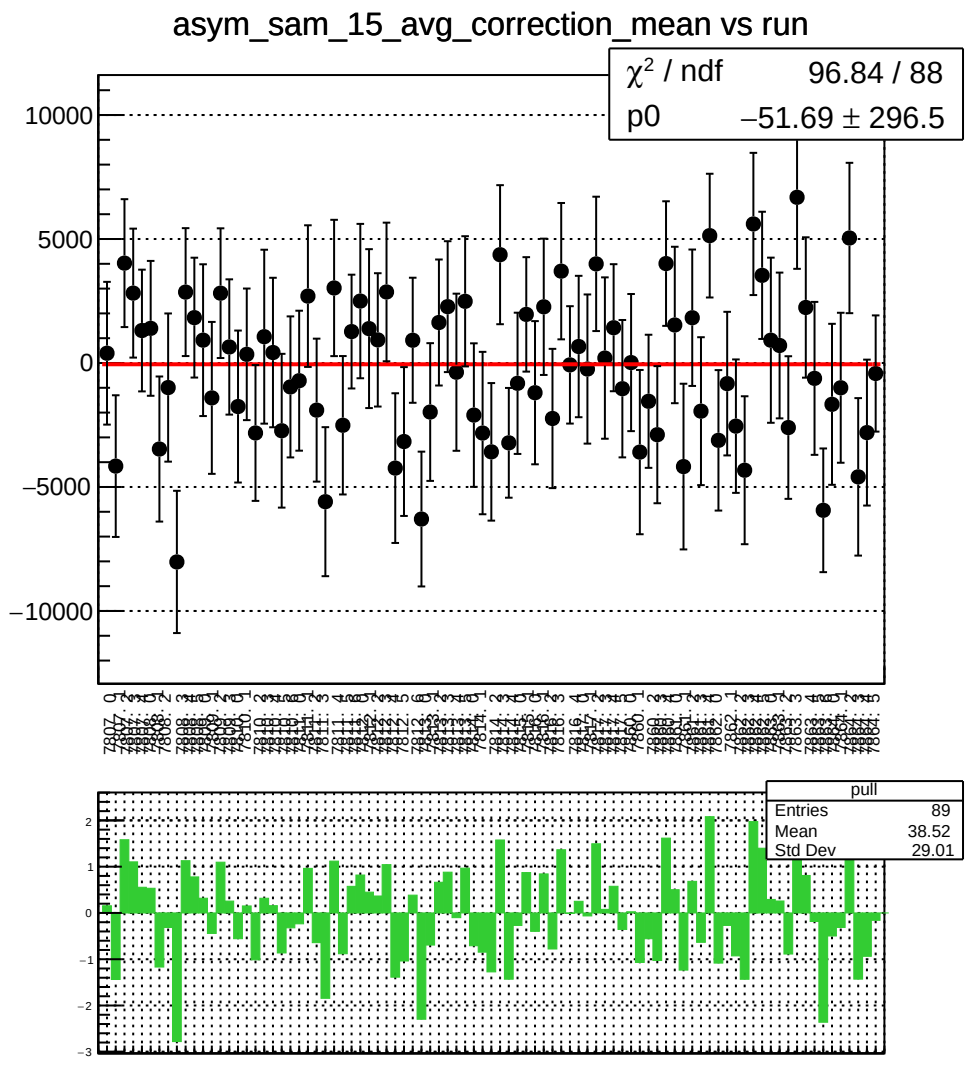

pull1D
Entries 89
Mean −0.01445
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

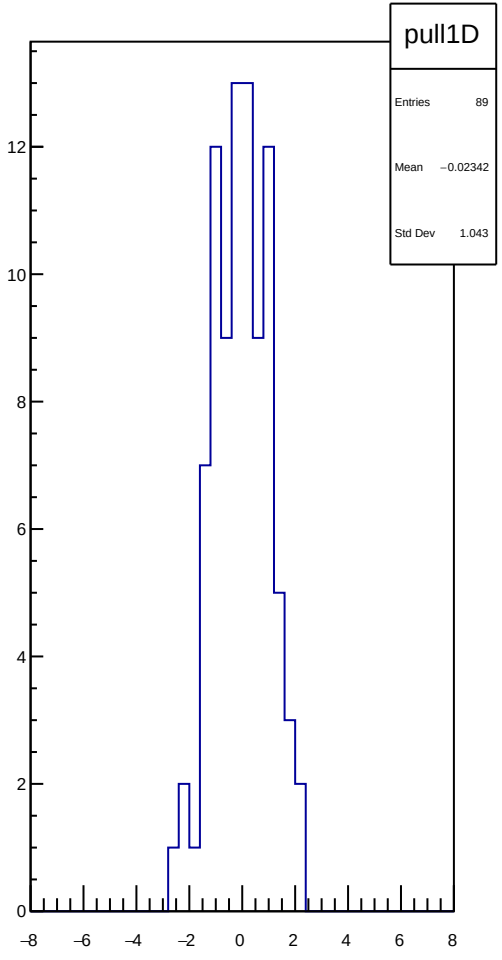

asym_sam8_correction_rms vs run
χ² / ndf 5308 / 88
p0 617.6 ± 0.4726
720
700
680
660
640
620
600
580
560
540

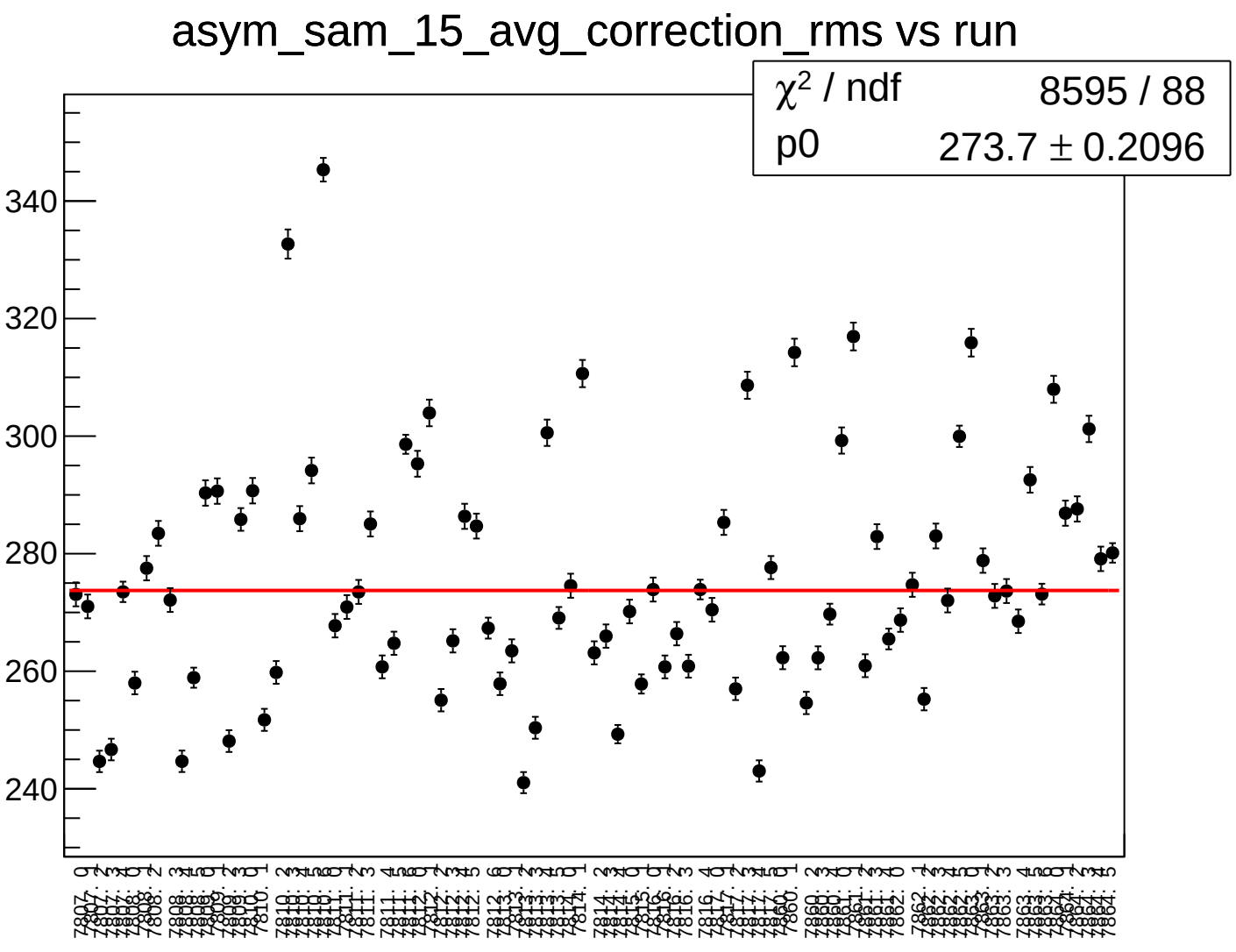

reg_asym_sam_15_avg_mean vs run
χ² / ndf 86.31 / 88
p0 −81.06 ± 78.5
pull
Entries 89
Mean −1788
Std Dev 1826

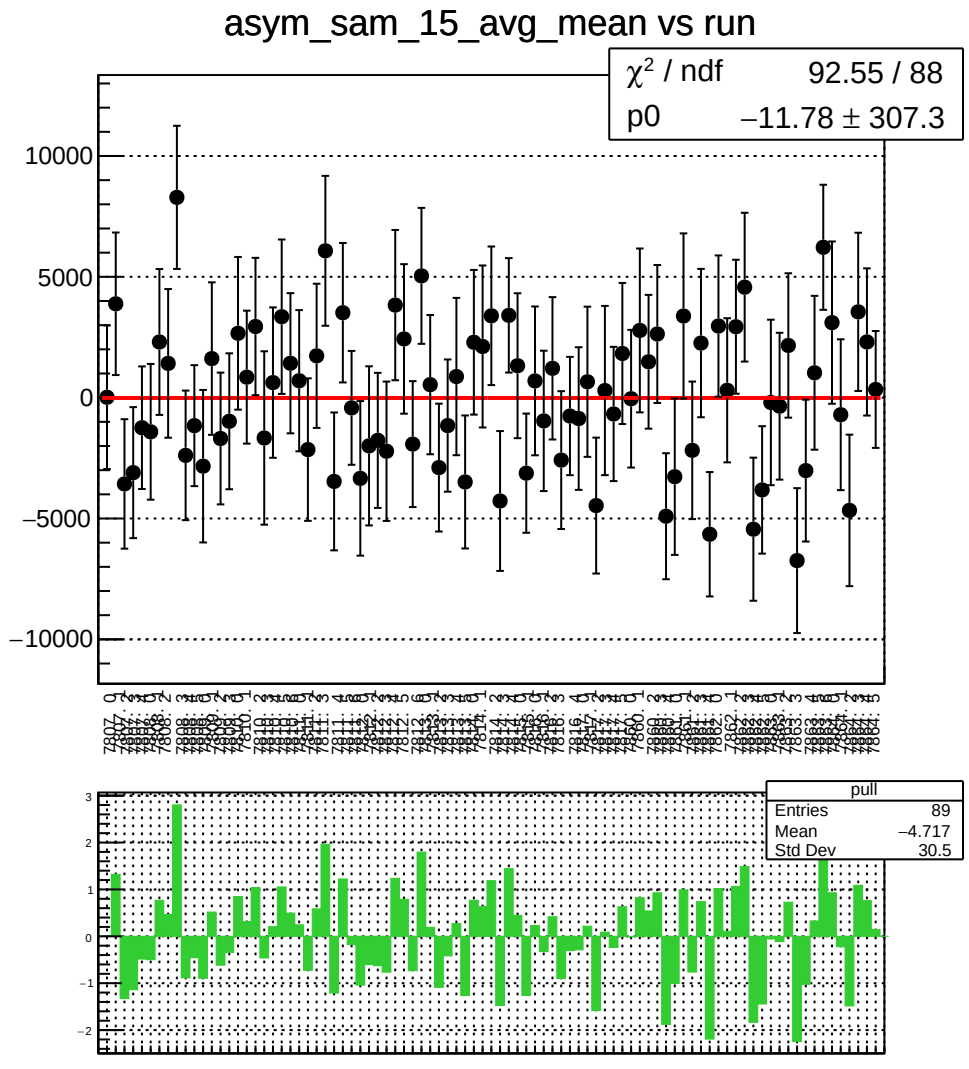

pull1D
Entries 89
Mean 0.002031
Std Dev 0.9848

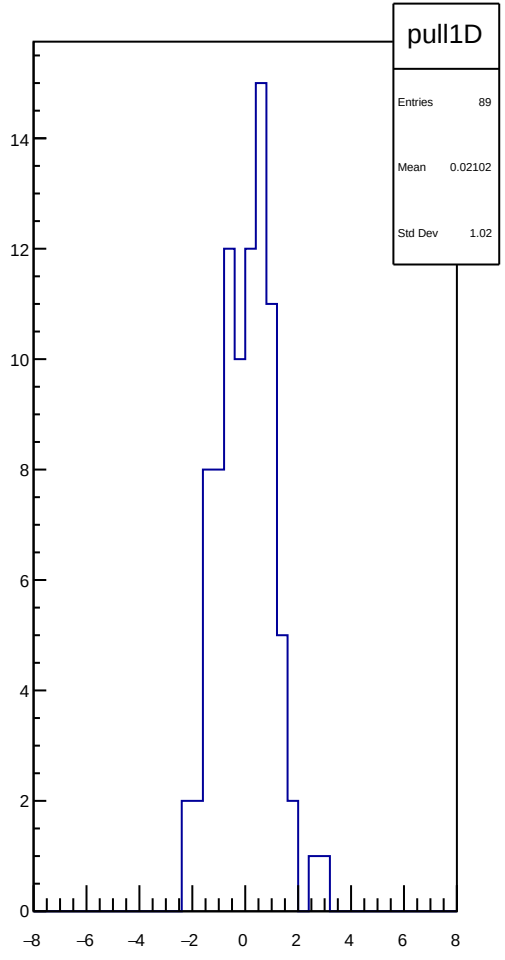

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.541e+04 / 88
p0 72.33 ± 0.05551
120
110
100
90
80
70
60

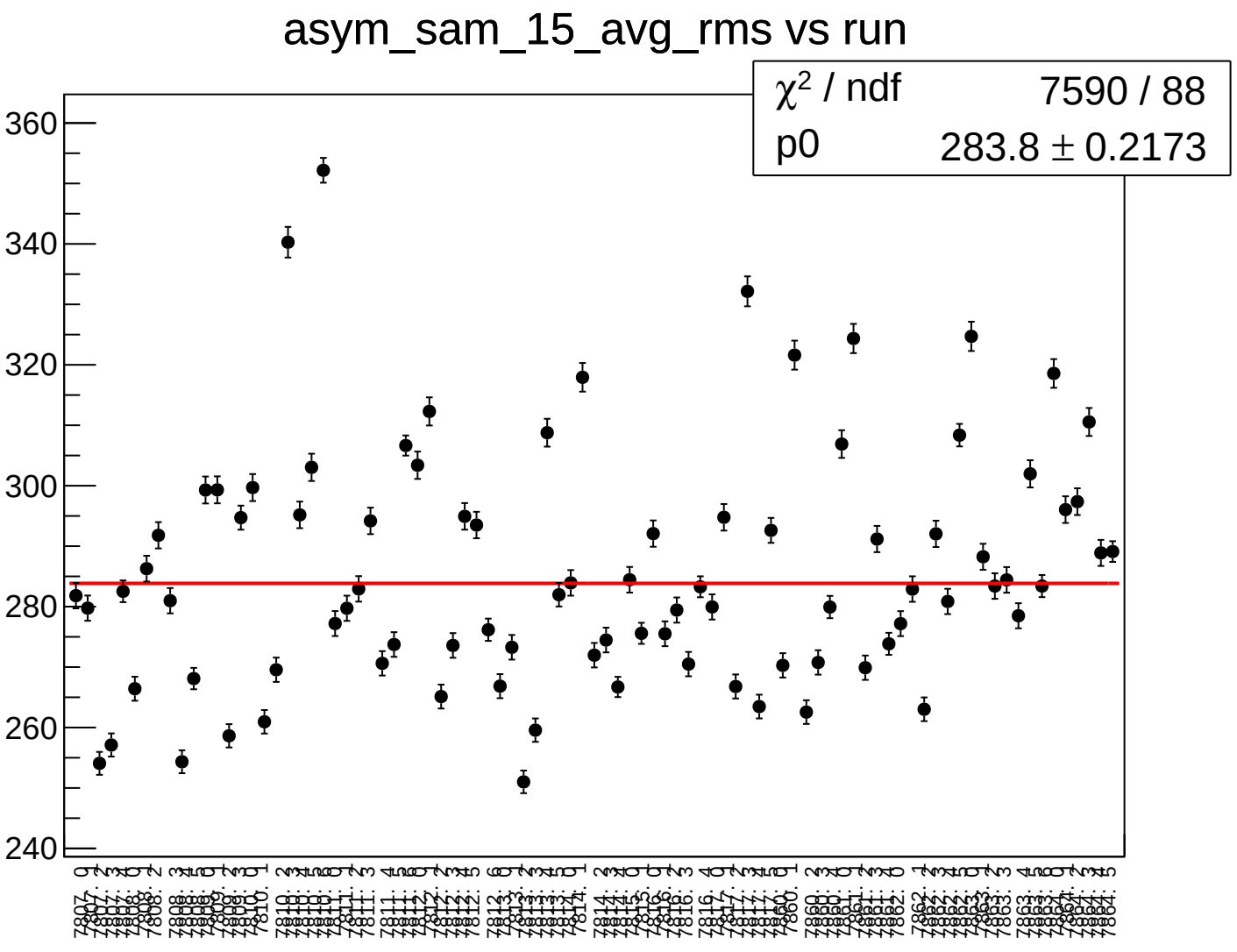

asym_sam_15_avg_correction_mean vs run
χ² / ndf 96.84 / 88
p0 −51.69 ± 296.5
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 38.52
Std Dev 29.01
2
1
0
−1
−2
−3

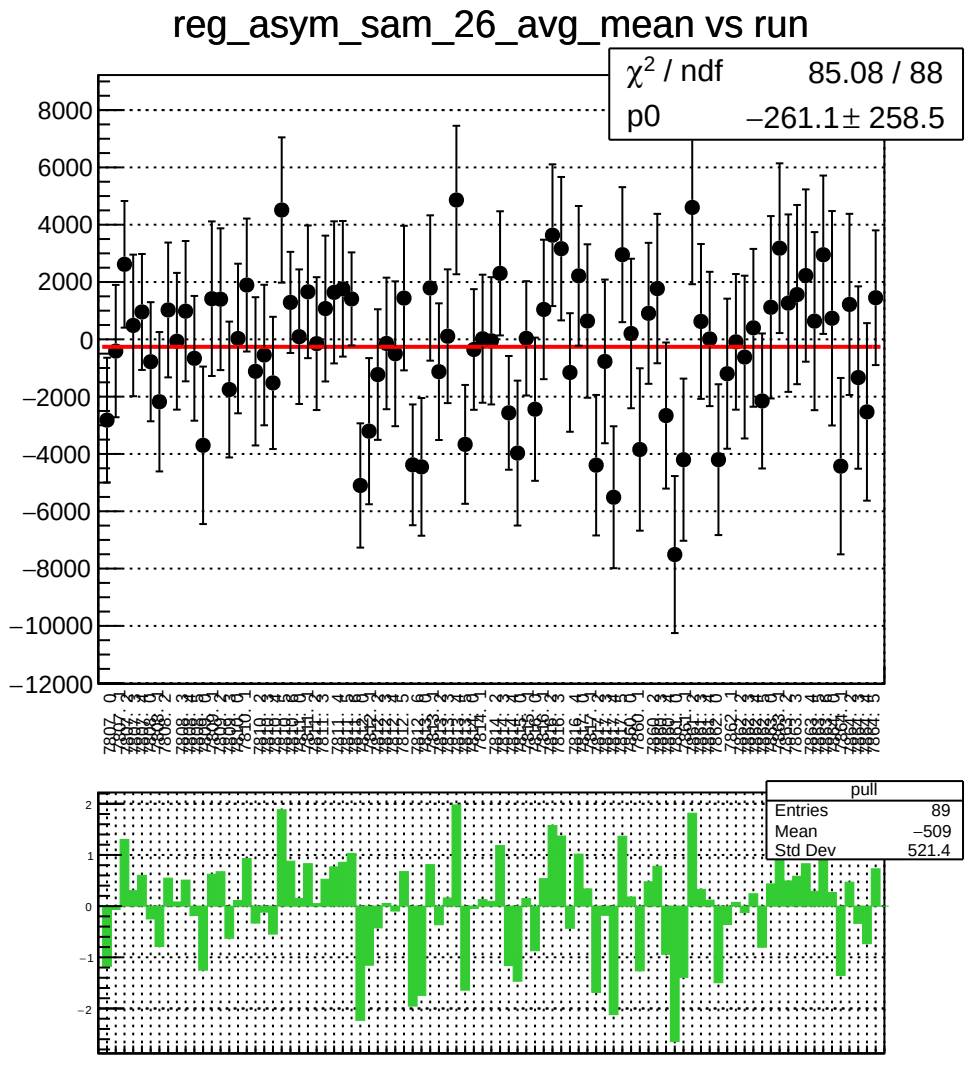

pull1D
Entries 89
Mean −0.02342
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

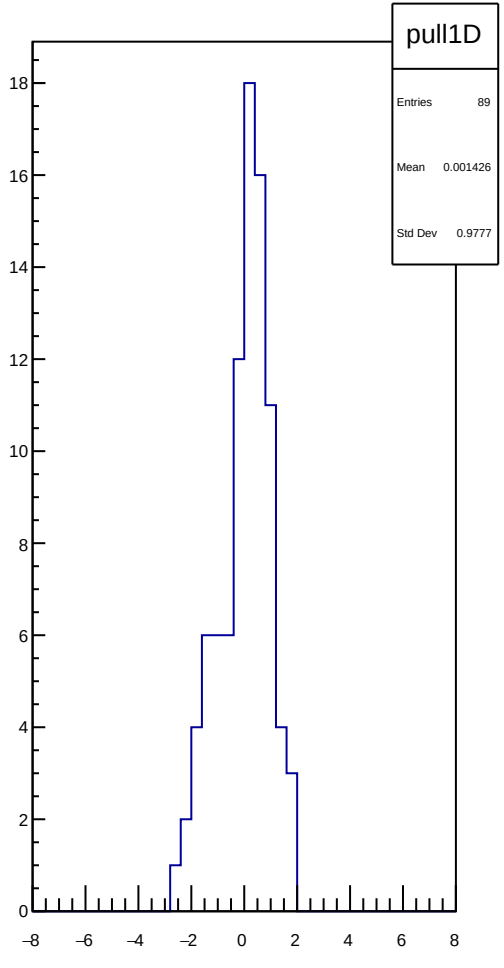

asym_sam_15_avg_correction_rms vs run
χ² / ndf 8595 / 88
p0 273.7 ± 0.2096
340
320
300
280
260
240

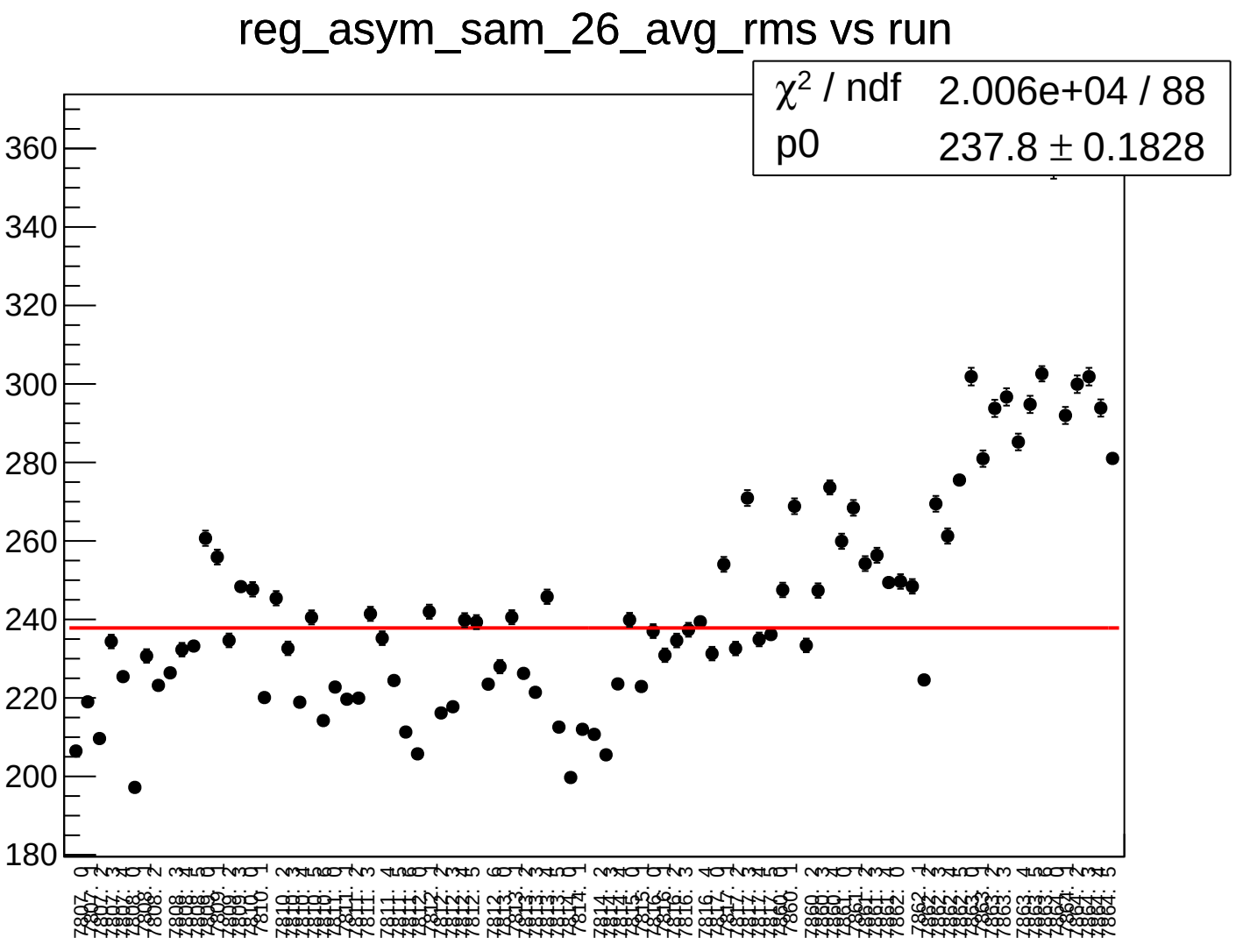

asym_sam_15_avg_mean vs run
χ² / ndf 92.55 / 88
p0 −11.78 ± 307.3
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −4.717
Std Dev 30.5
3
2
1
0
−1
−2

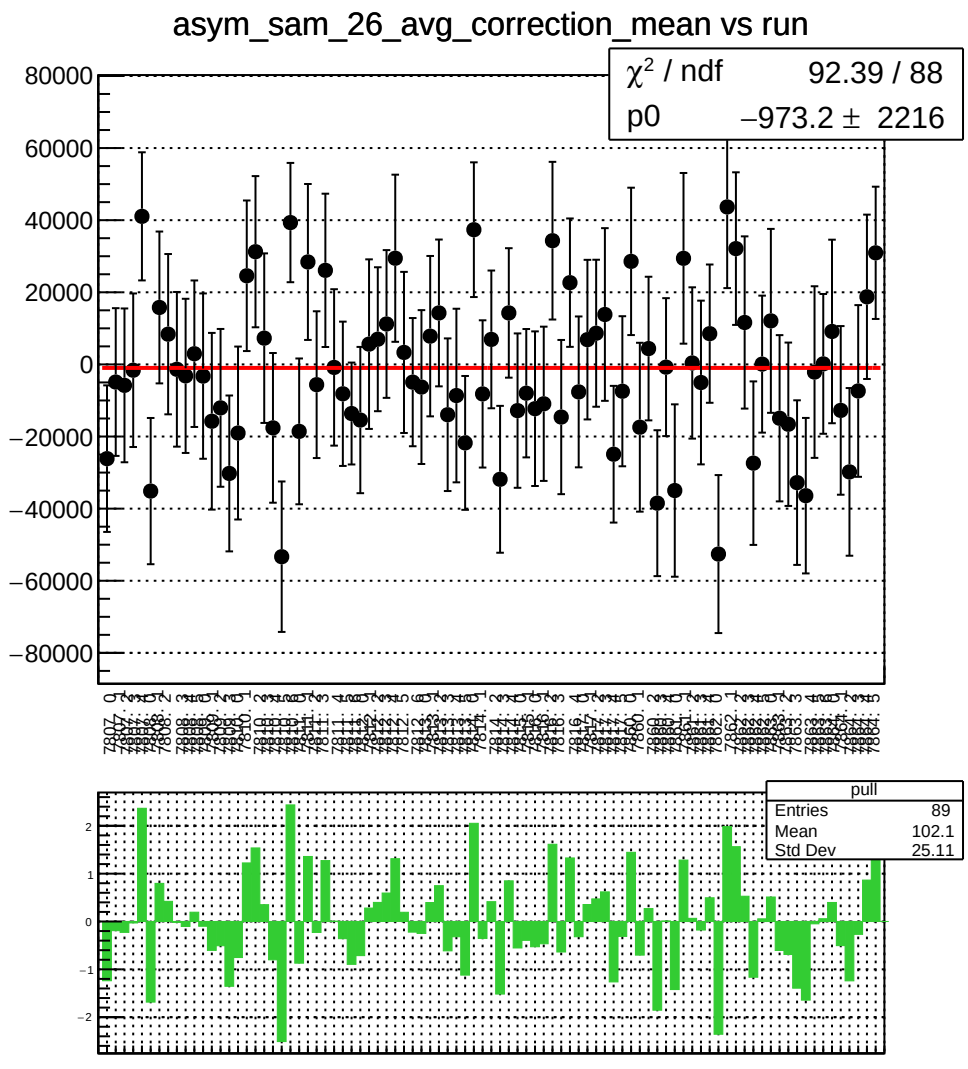

pull1D
Entries 89
Mean 0.02102
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

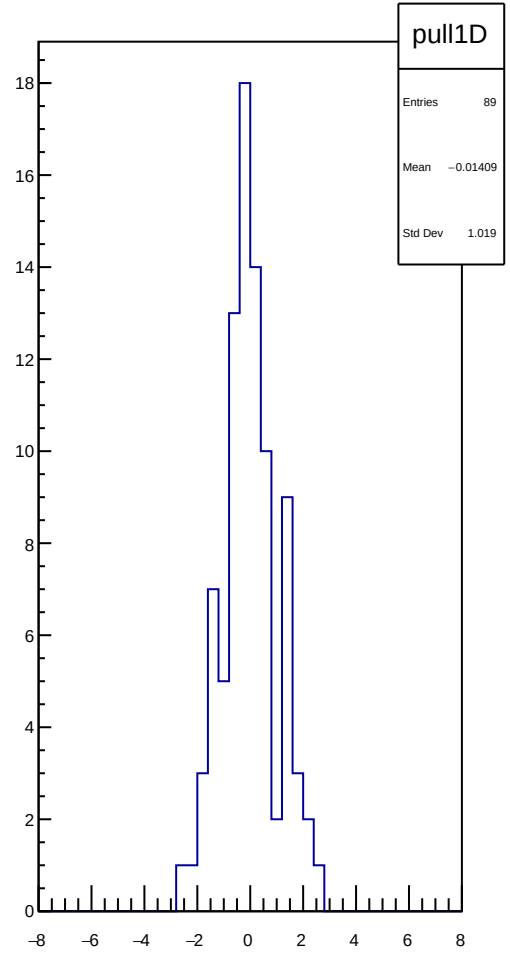

asym_sam_15_avg_rms vs run
χ² / ndf 7590 / 88
p0 283.8 ± 0.2173
360
340
320
300
280
260
240

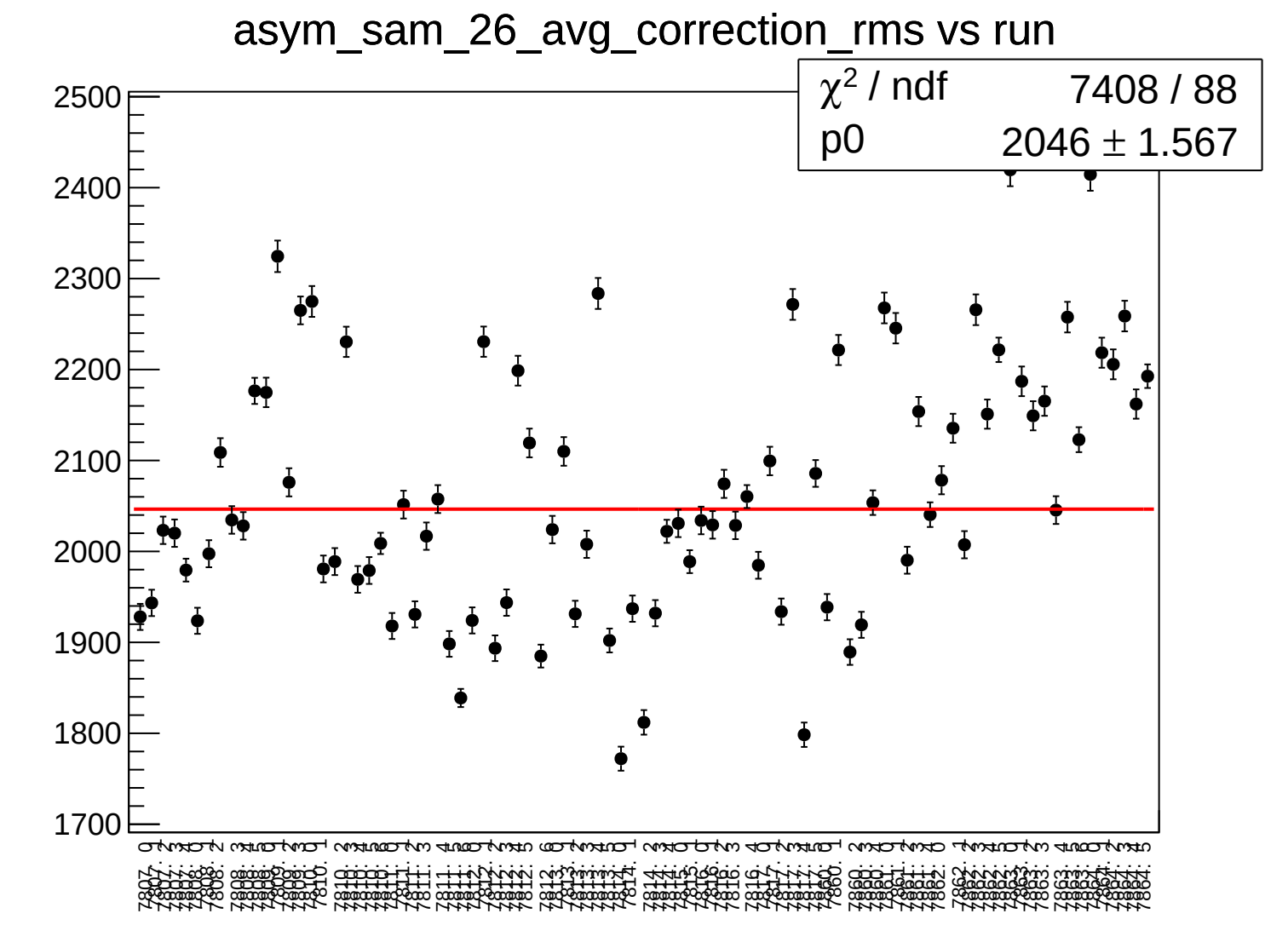

reg_asym_sam_26_avg_mean vs run
χ² / ndf 85.08 / 88
p0 −261.1± 258.5
pull
Entries 89
Mean −509
Std Dev 521.4

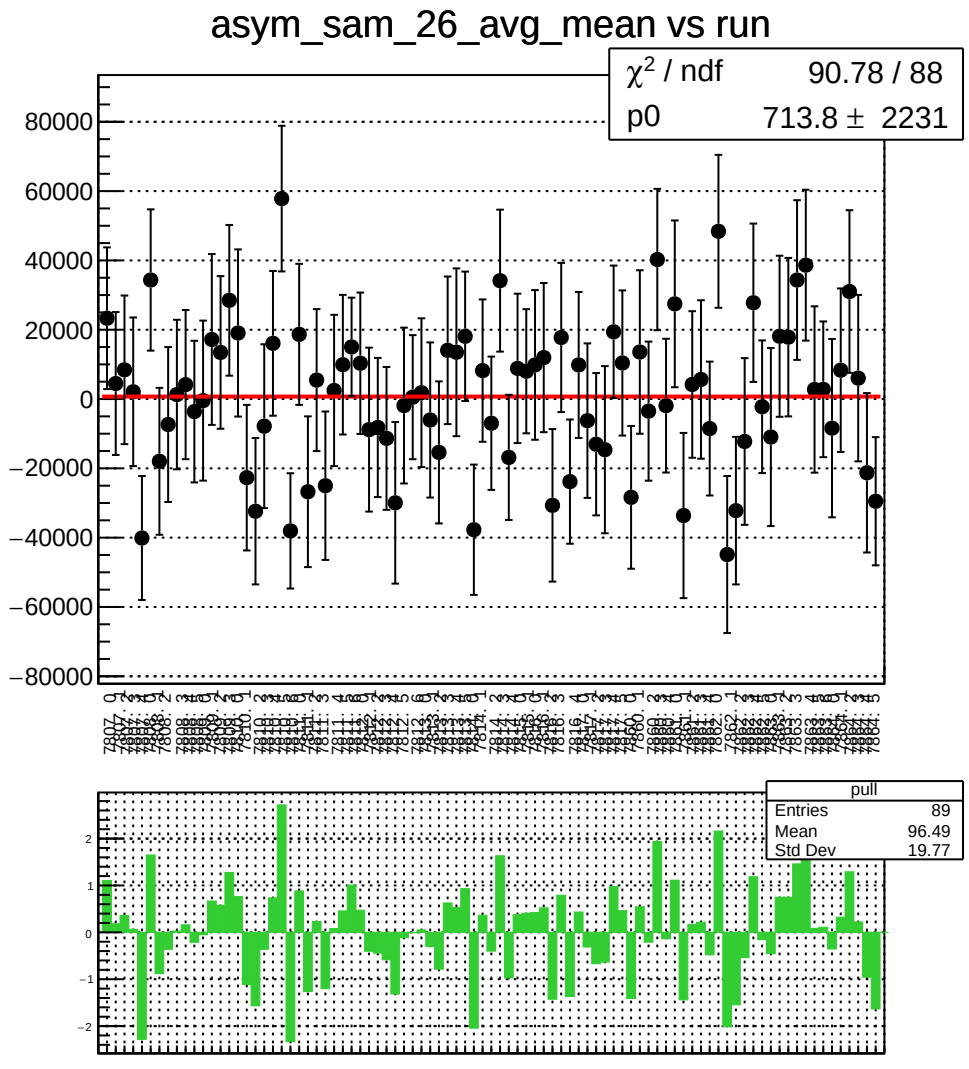

pull1D
Entries 89
Mean 0.001426
Std Dev 0.9777

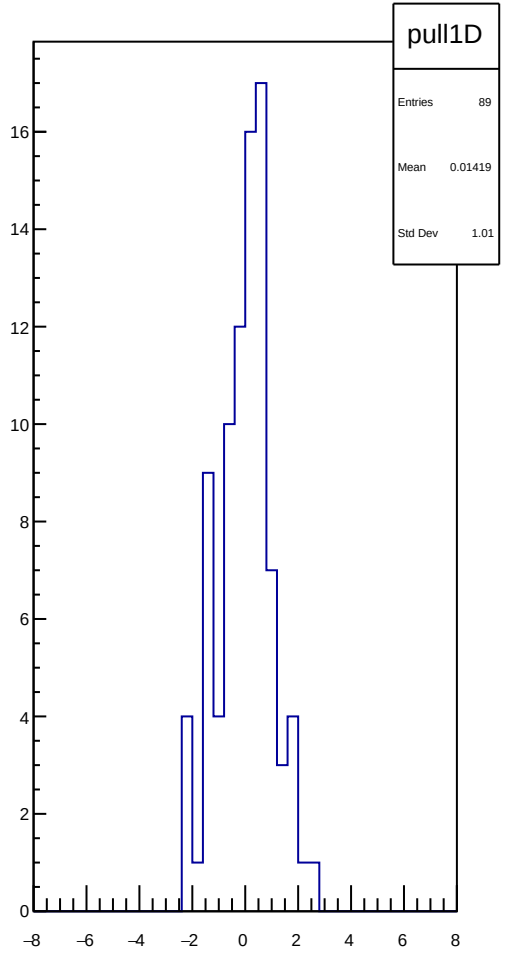

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 2.006e+04 / 88
p0 237.8 ± 0.1828
360
340
320
300
280
260
240
220
200
180

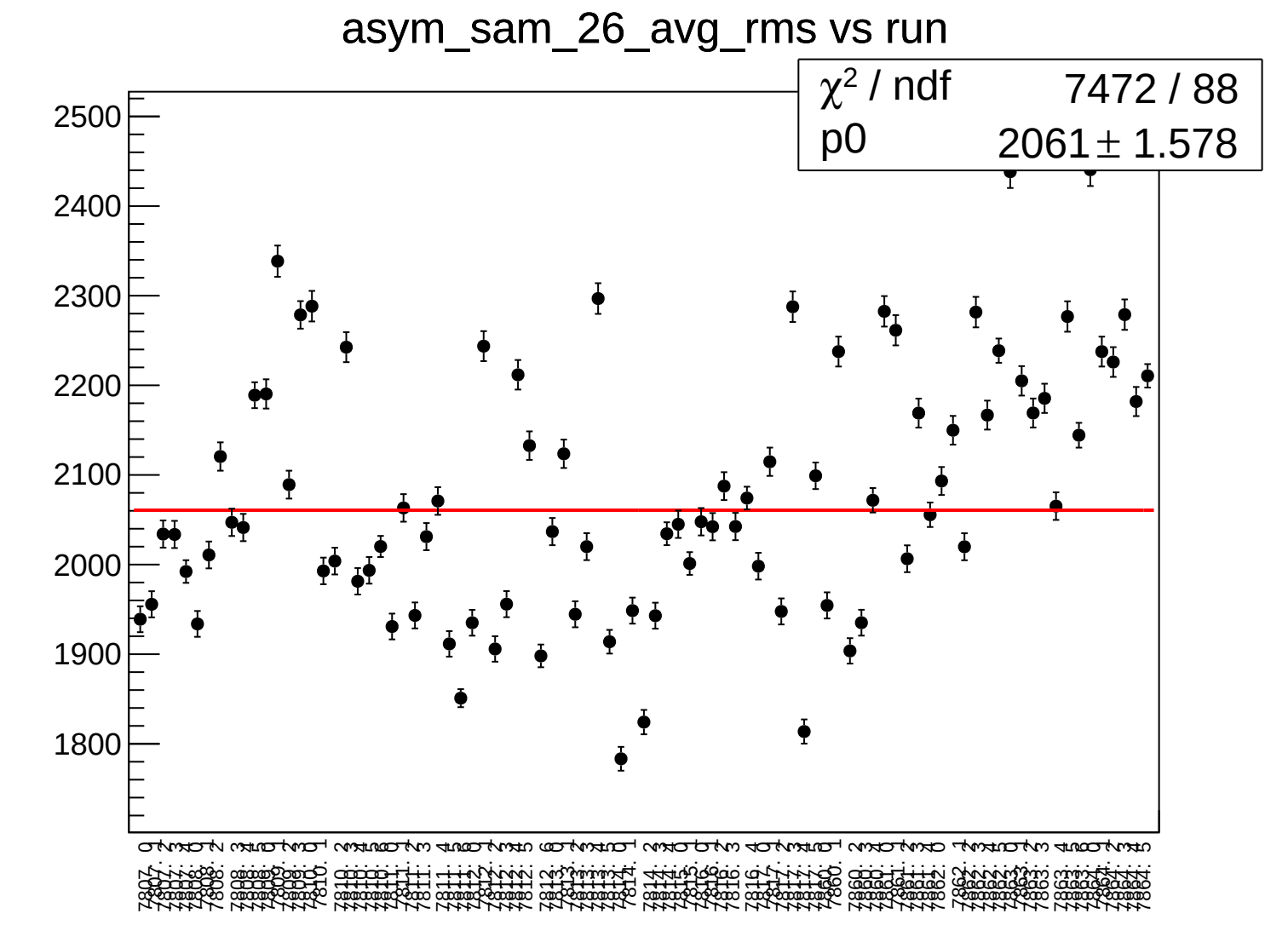

asym_sam_26_avg_correction_mean vs run
χ² / ndf 92.39 / 88
p0 −973.2 ± 2216
pull
Entries 89
Mean 102.1
Std Dev 25.11

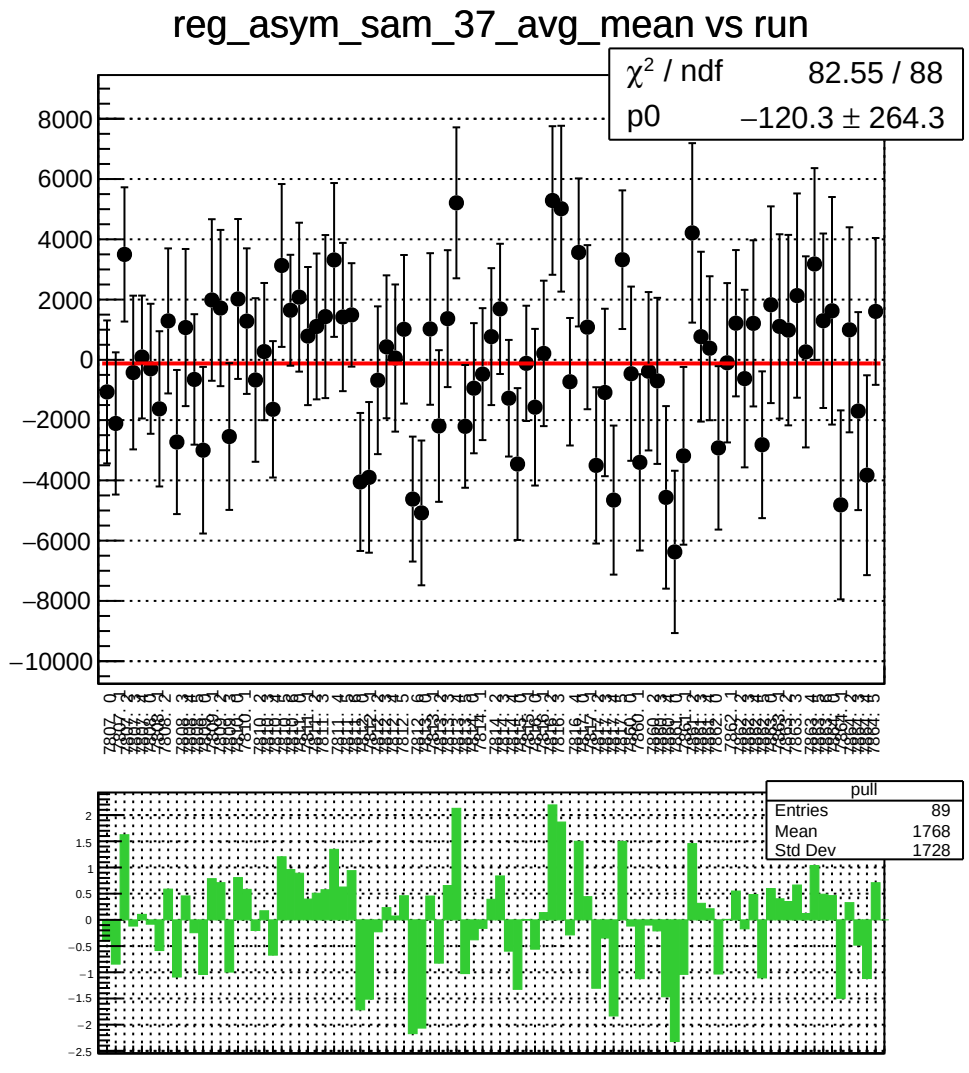

pull1D
Entries 89
Mean −0.01409
Std Dev 1.019

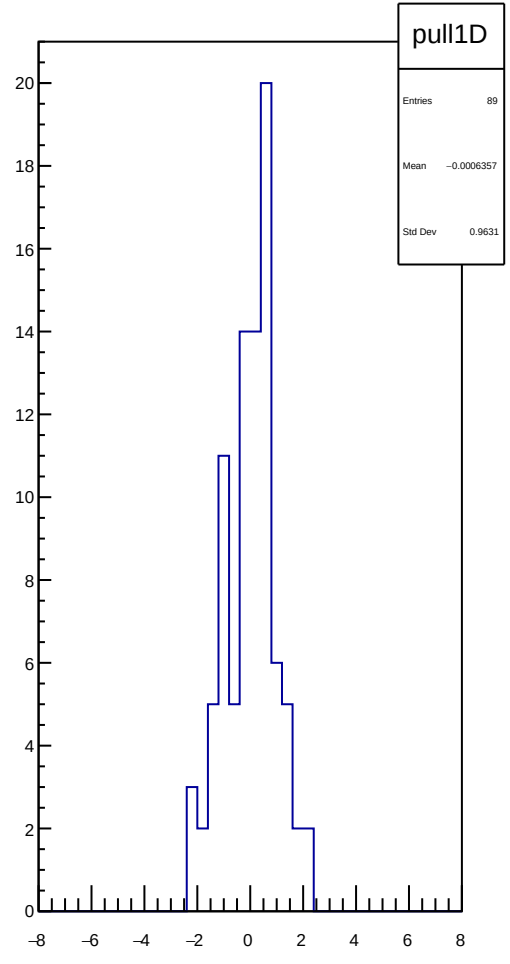

asym_sam_26_avg_correction_rms vs run
χ² / ndf 7408 / 88
p0 2046 ± 1.567
2500
2400
2300
2200
2100
2000
1900
1800
1700

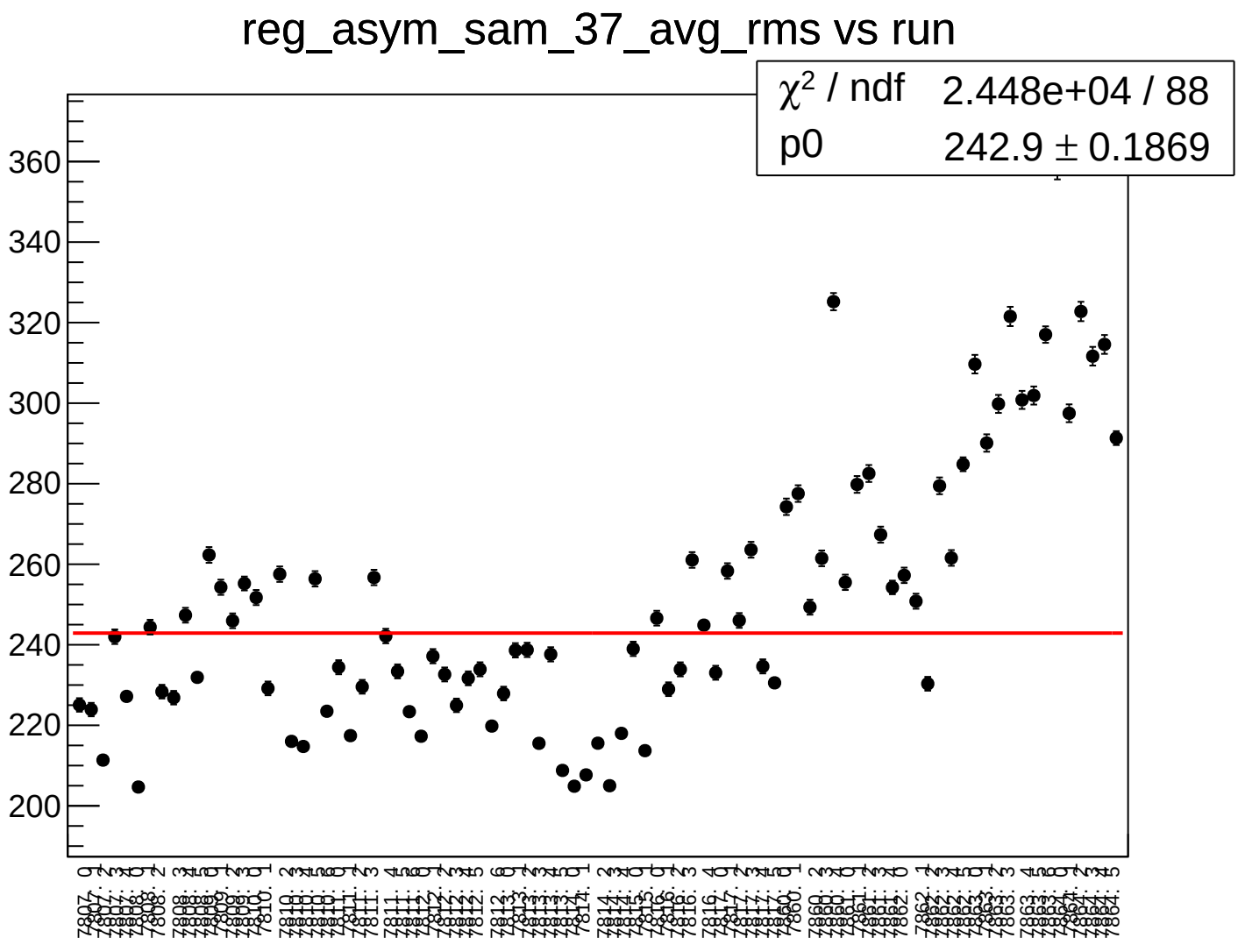

asym_sam_26_avg_mean vs run
χ² / ndf 90.78 / 88
p0 713.8 ± 2231
pull
Entries 89
Mean 96.49
Std Dev 19.77

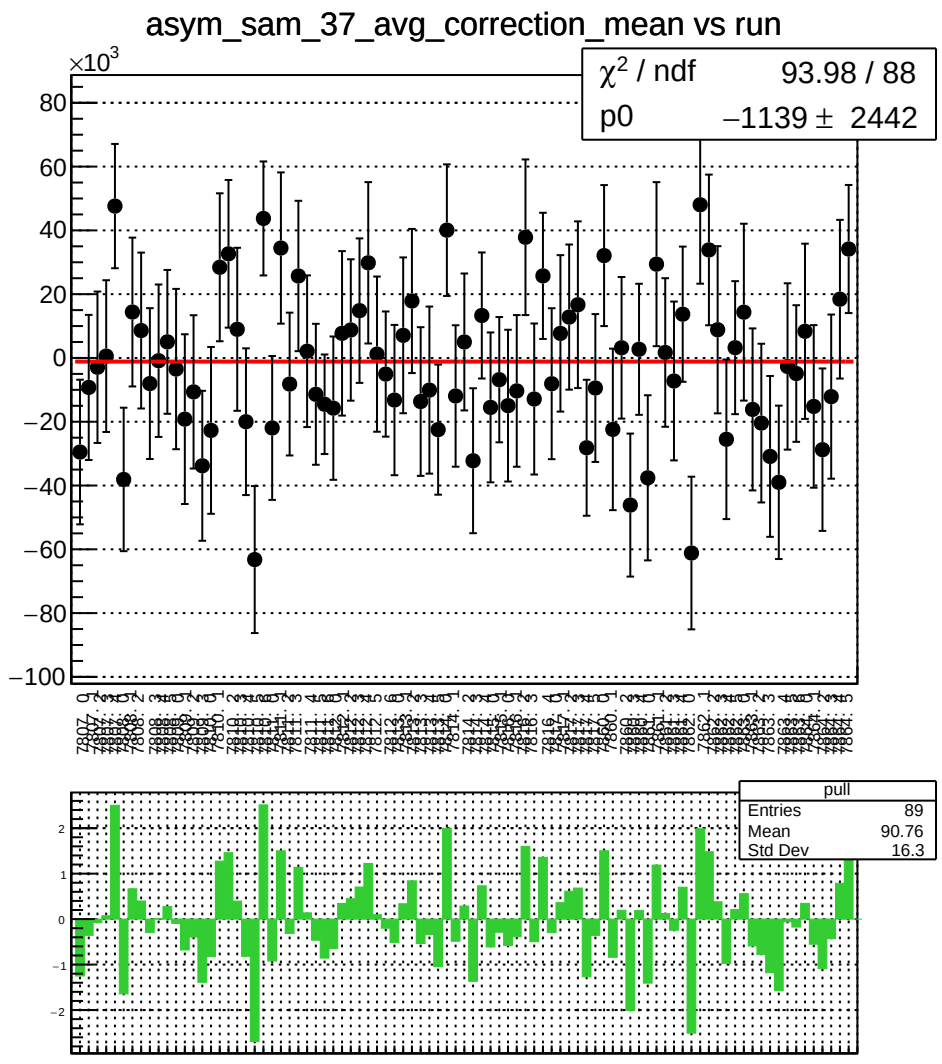

pull1D
Entries 89
Mean 0.01419
Std Dev 1.01

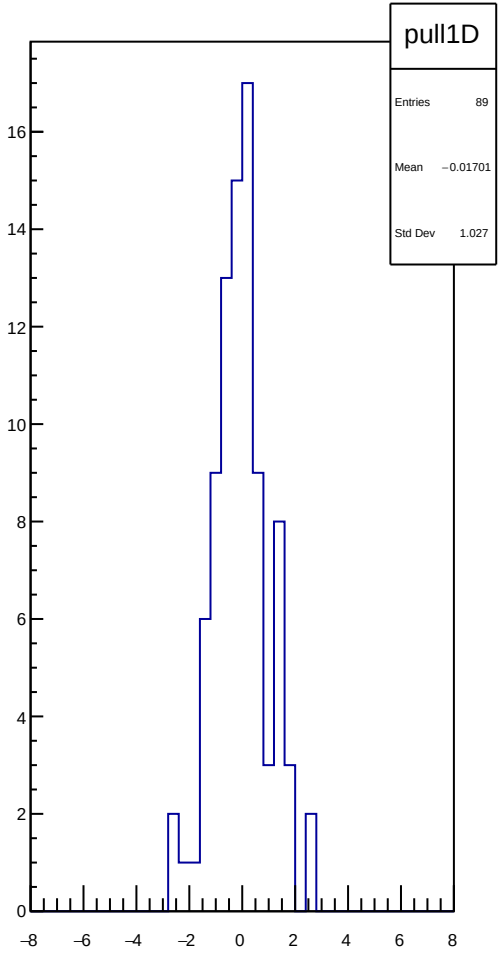

asym_sam_26_avg_rms vs run
χ² / ndf 7472 / 88
p0 2061 ± 1.578
2500
2400
2300
2200
2100
2000
1900
1800

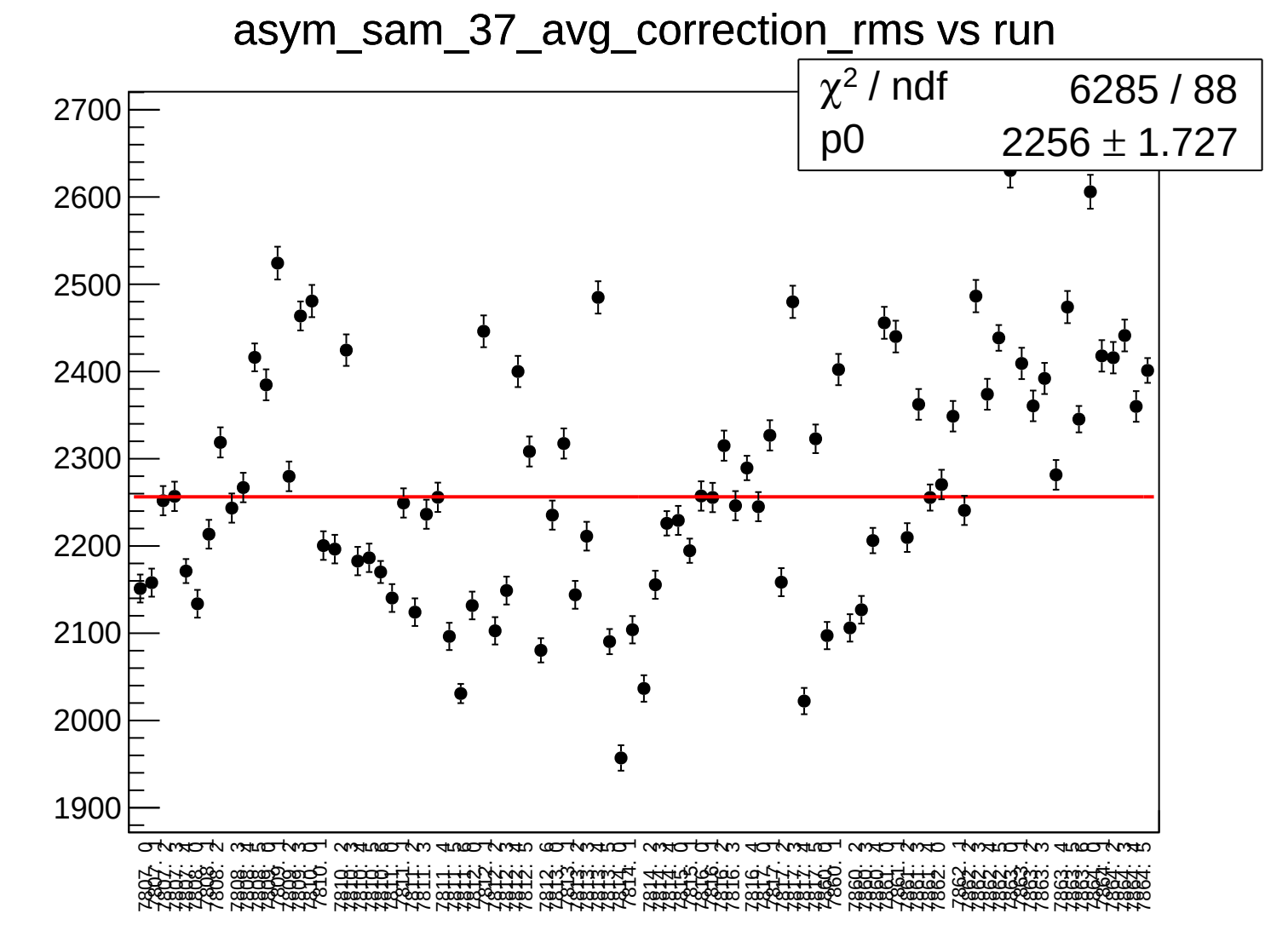

reg_asym_sam_37_avg_mean vs run
χ² / ndf 82.55 / 88
p0 −120.3 ± 264.3
pull
Entries 89
Mean 1768
Std Dev 1728

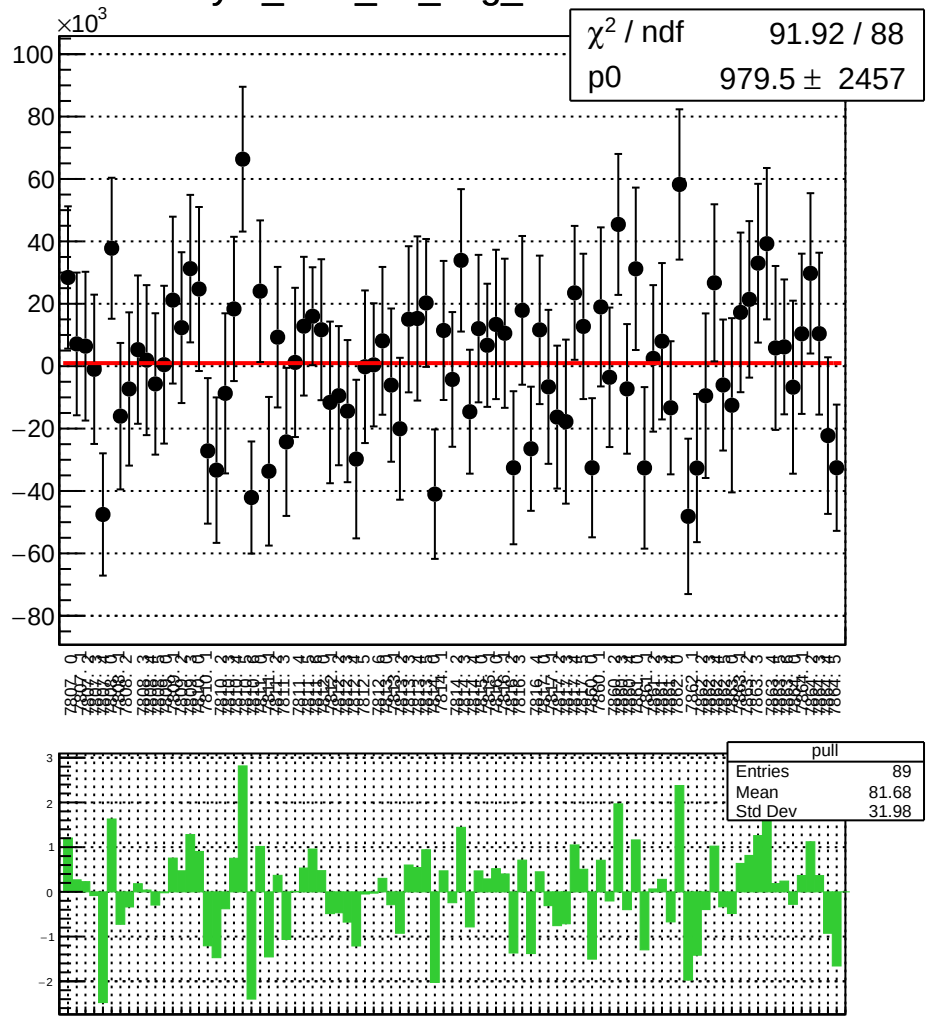

pull1D
Entries 89
Mean −0.0006357
Std Dev 0.9631

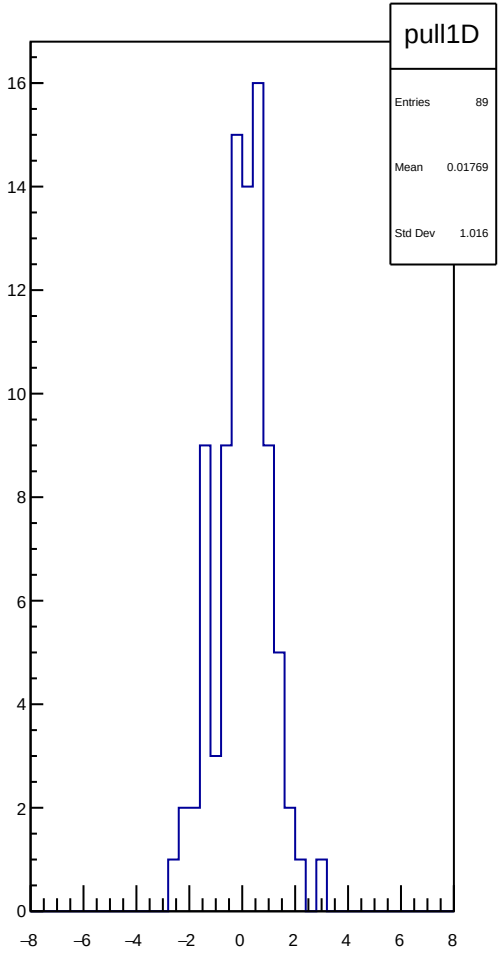

reg_asym_sam_37_avg_rms vs run
χ² / ndf 2.448e+04 / 88
p0 242.9 ± 0.1869
360
340
320
300
280
260
240
220
200

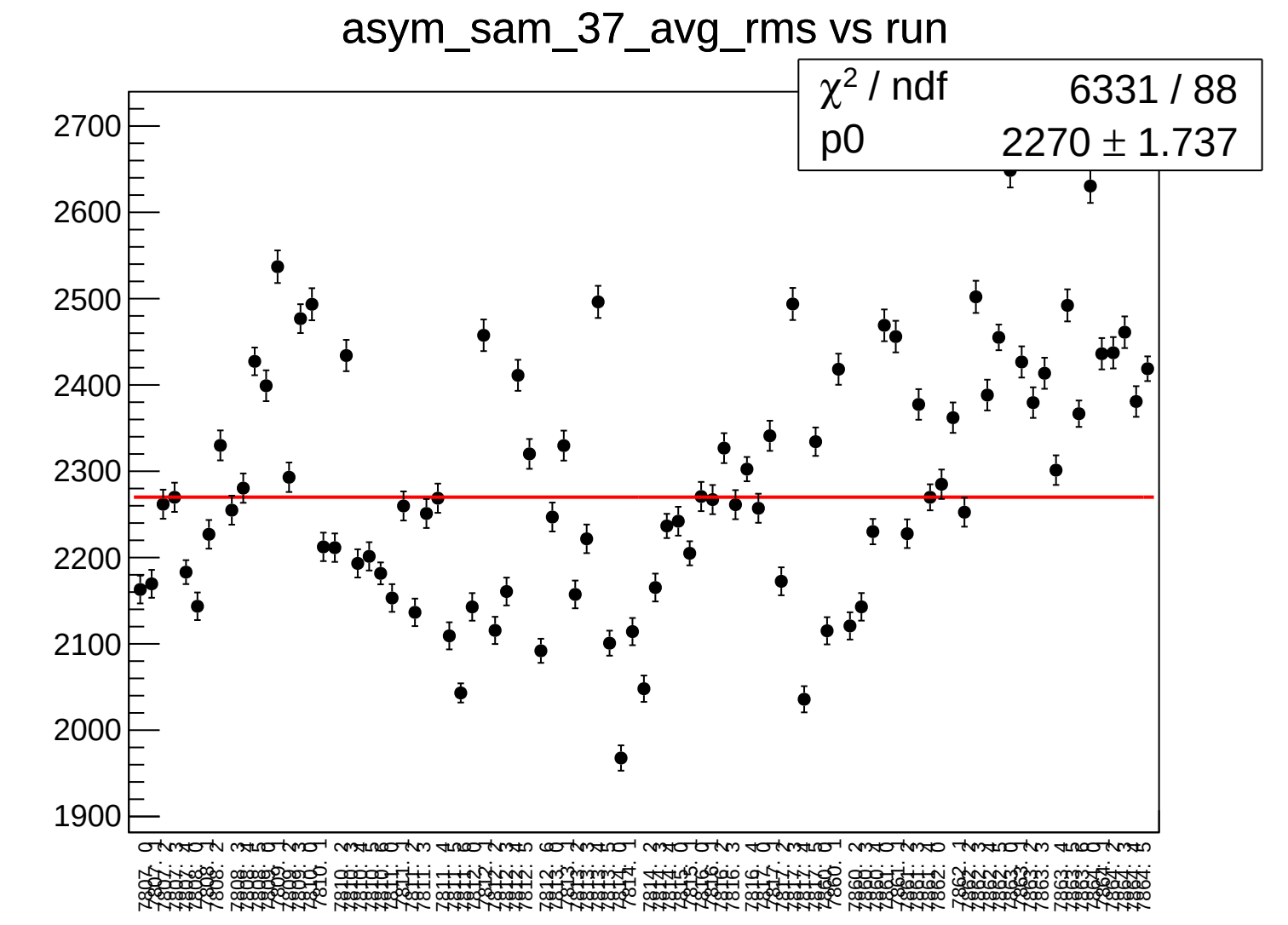

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 93.98 / 88
p0 −1139 ± 2442
pull
Entries 89
Mean 90.76
Std Dev 16.3

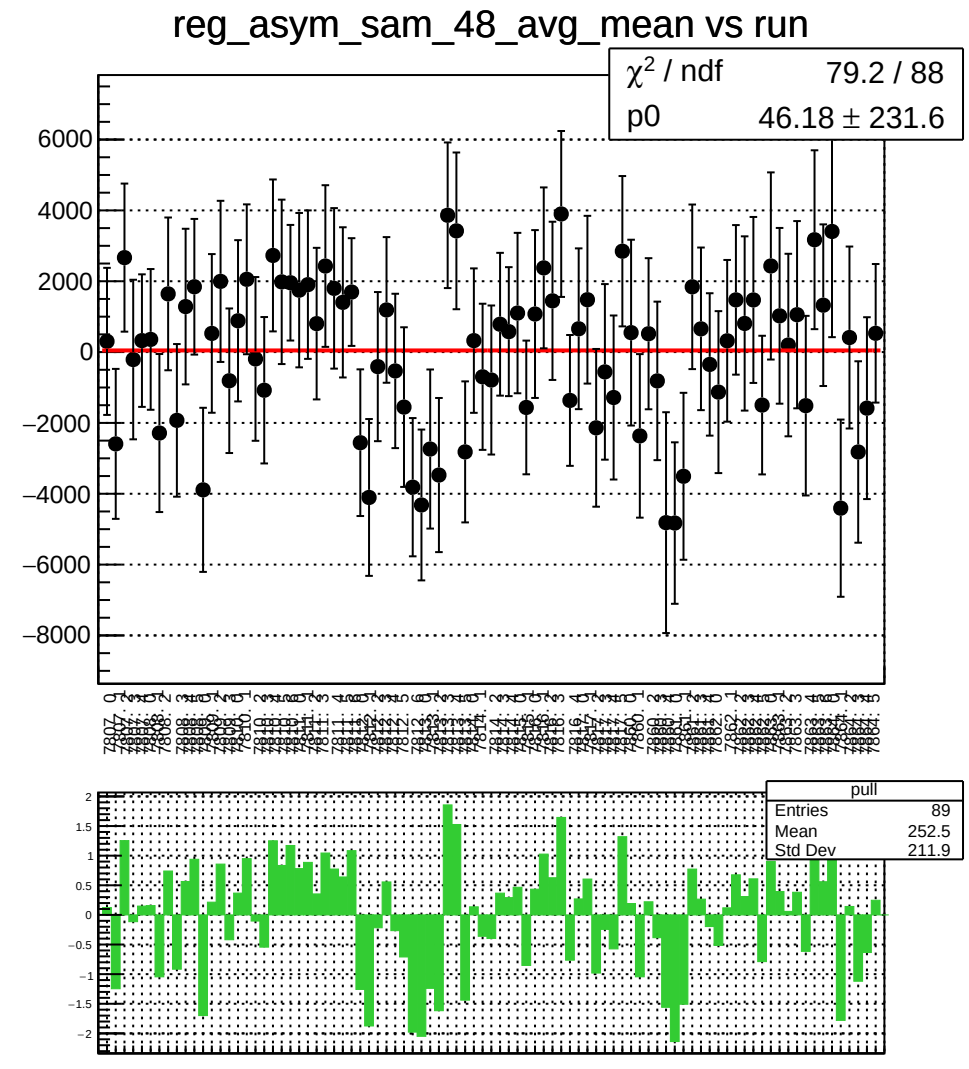

pull1D
Entries 89
Mean −0.01701
Std Dev 1.027

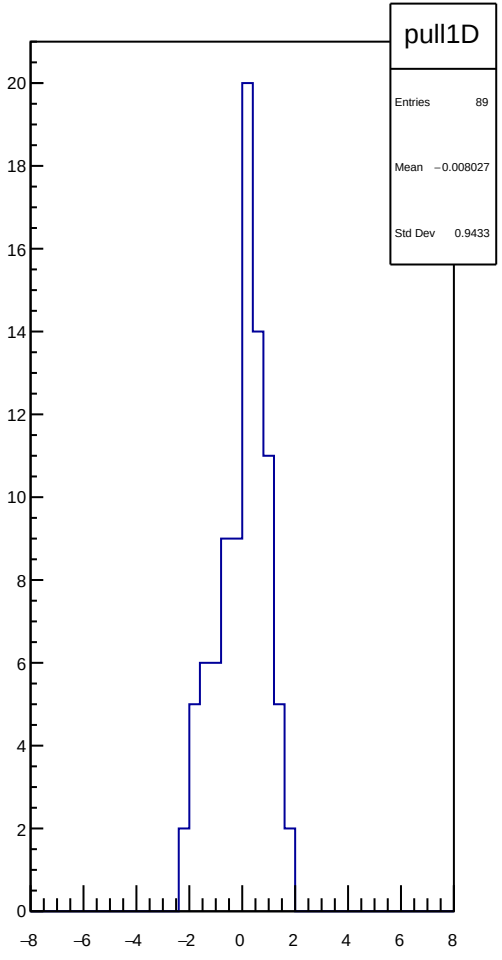

asym_sam_37_avg_correction_rms vs run
χ² / ndf 6285 / 88
p0 2256 ± 1.727
2700
2600
2500
2400
2300
2200
2100
2000
1900

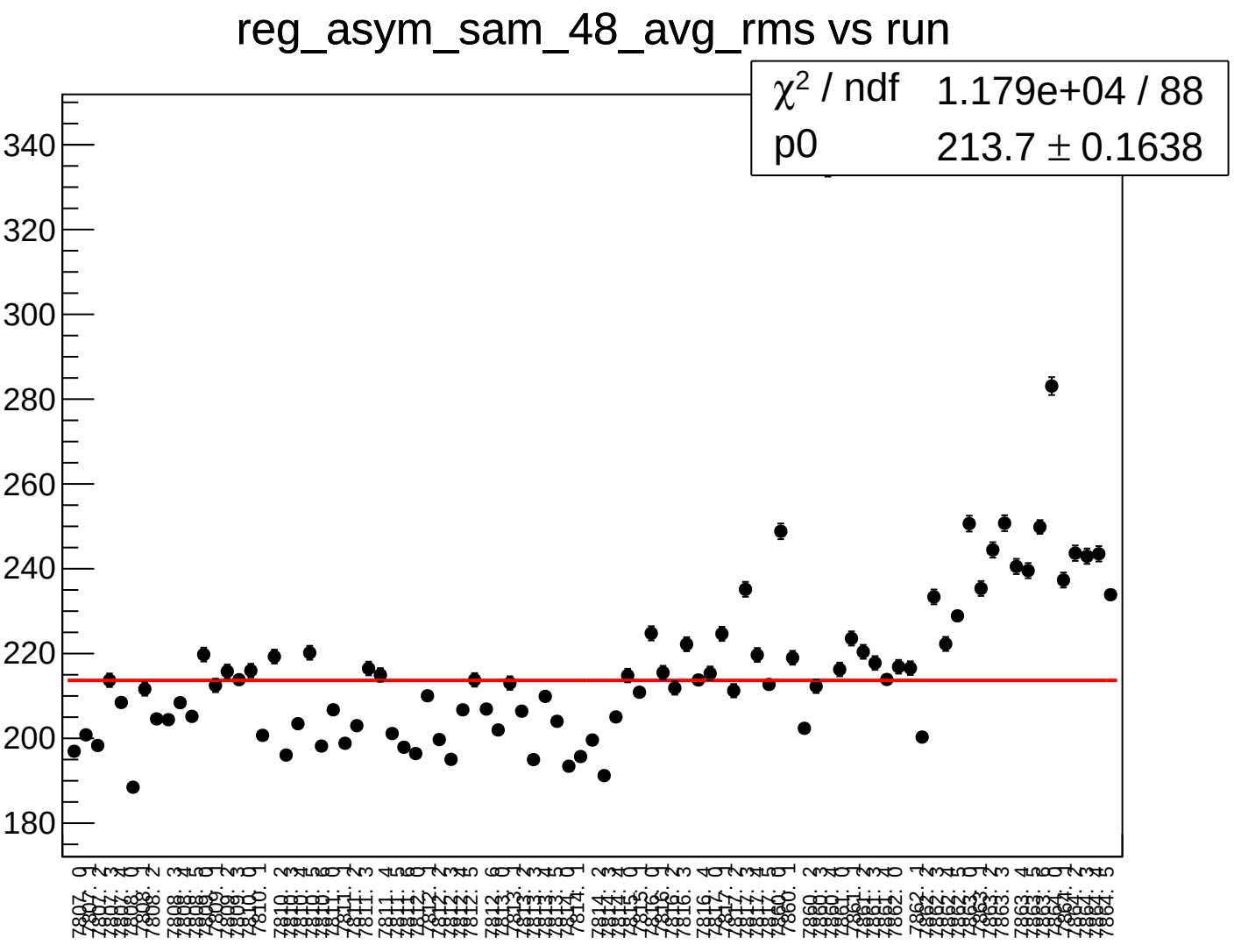

asym_sam_37_avg_mean vs run
×10^3
χ^2 / ndf 91.92 / 88
p0 979.5 ± 2457
pull
Entries 89
Mean 81.68
Std Dev 31.98

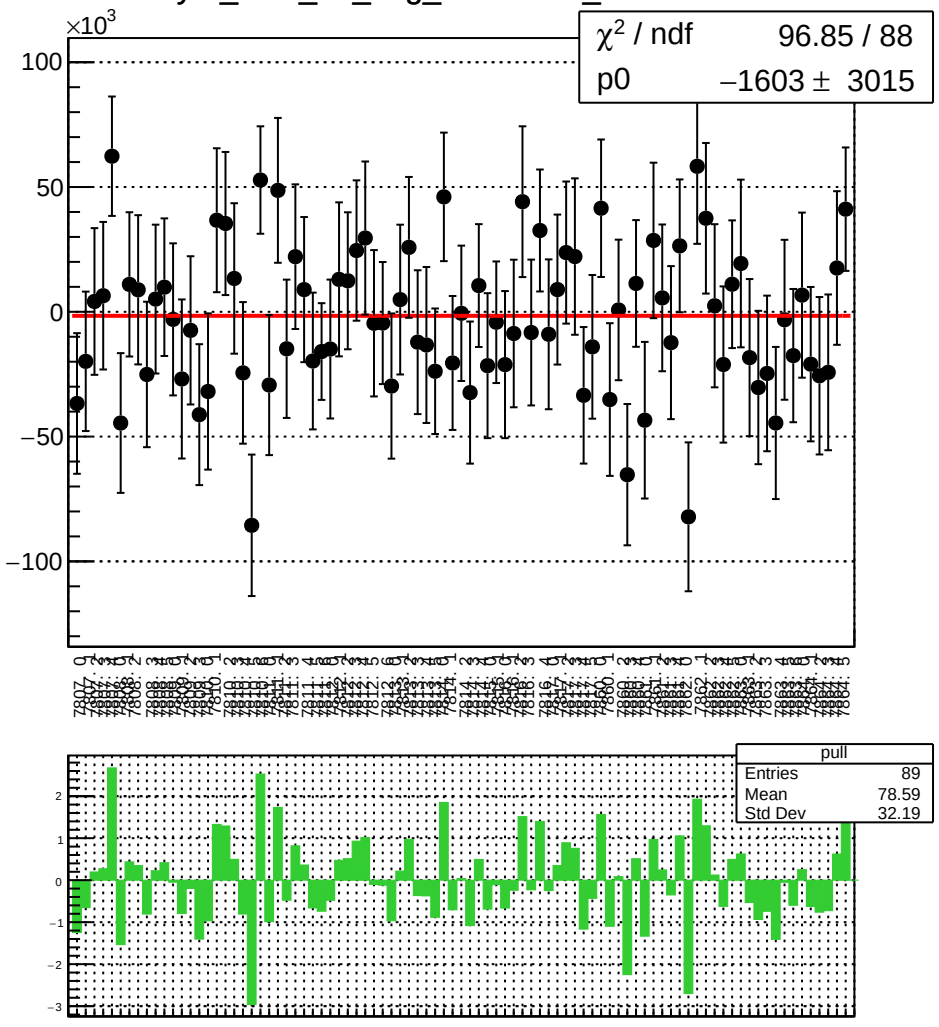

pull1D
Entries 89
Mean 0.01769
Std Dev 1.016

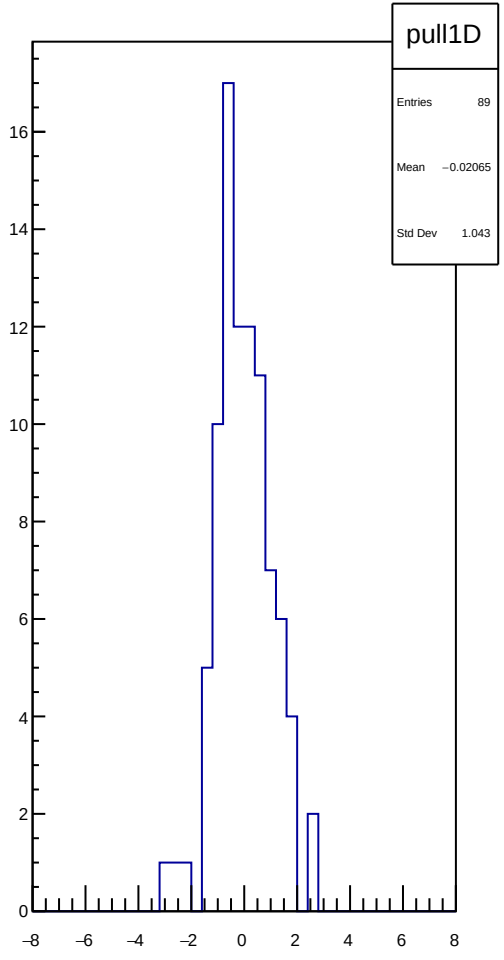

asym_sam_37_avg_rms vs run
χ² / ndf 6331 / 88
p0 2270 ± 1.737
2700
2600
2500
2400
2300
2200
2100
2000
1900

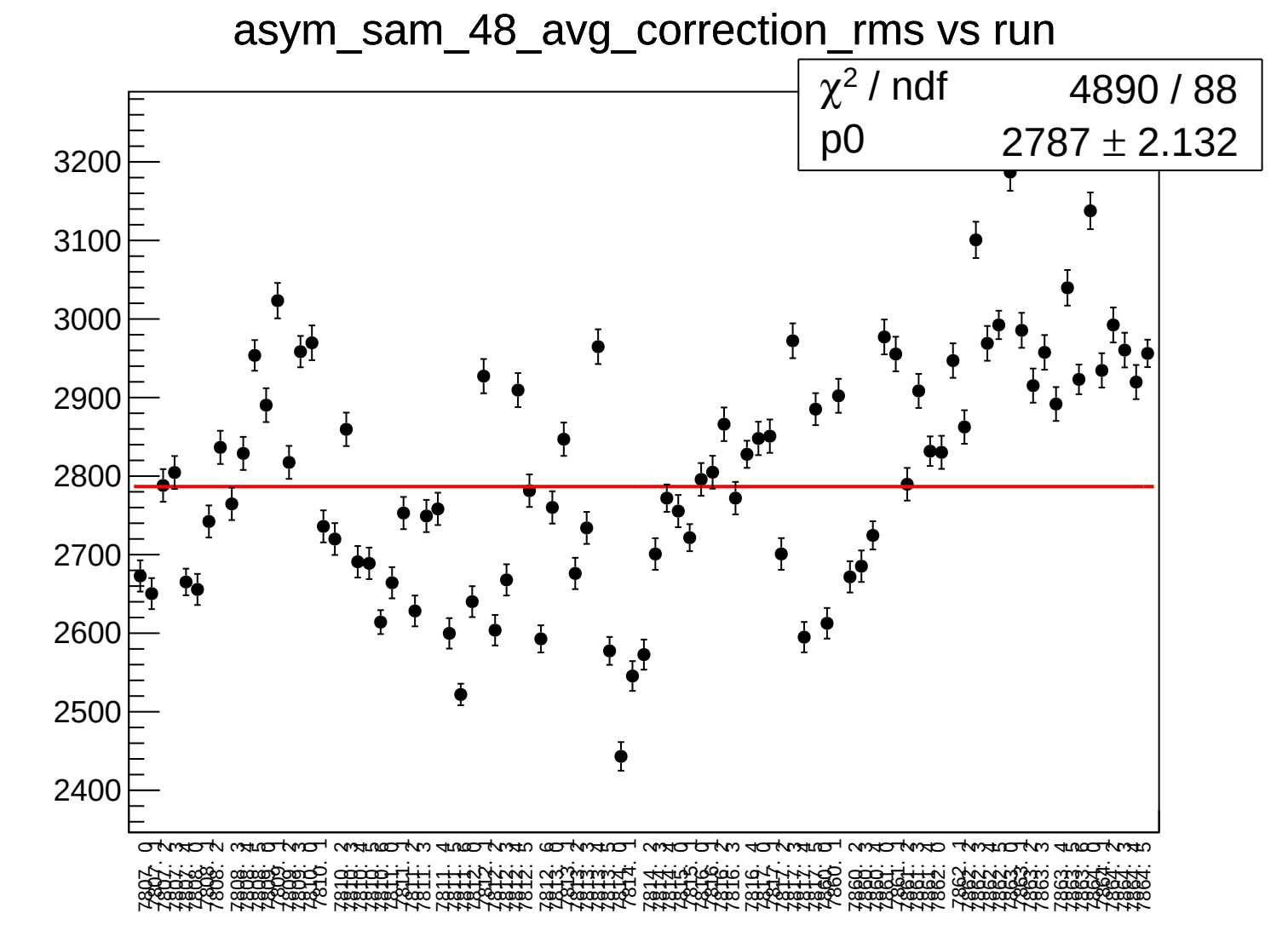

reg_asym_sam_48_avg_mean vs run
χ² / ndf 79.2 / 88
p0 46.18 ± 231.6
pull
Entries 89
Mean 252.5
Std Dev 211.9

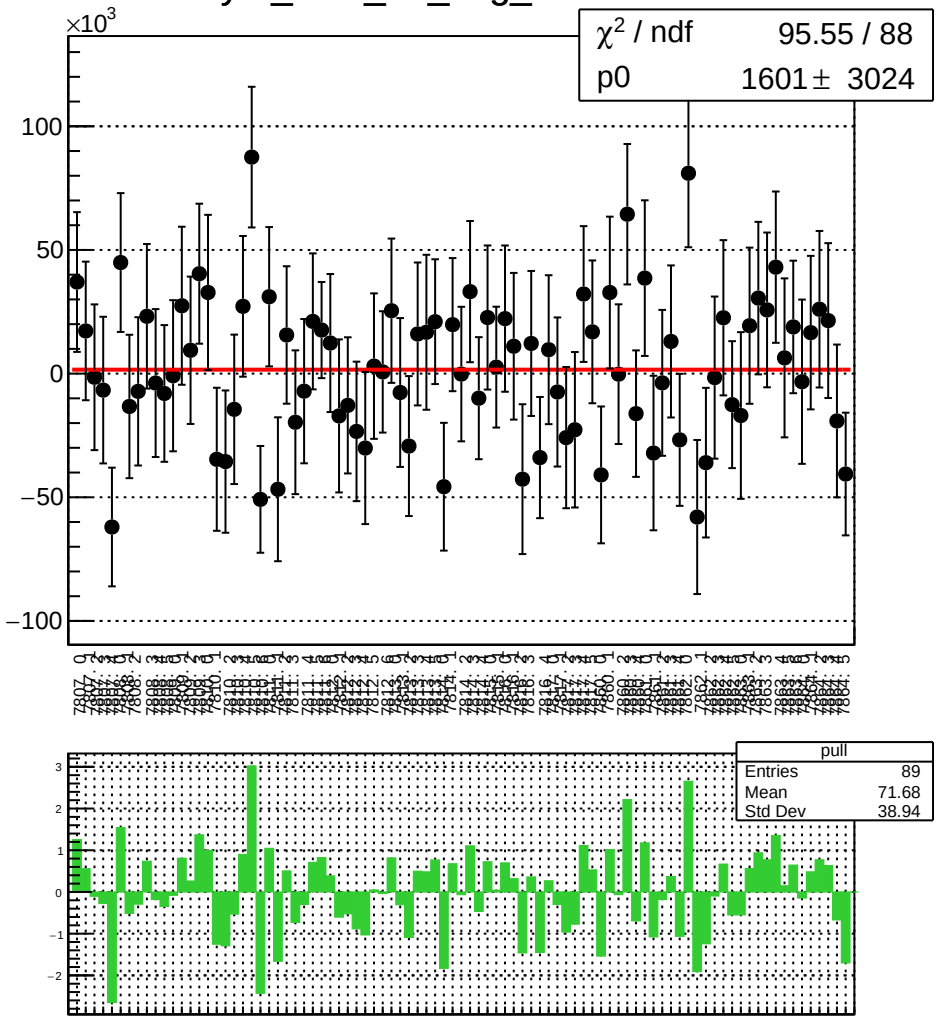

pull1D
Entries 89
Mean −0.008027
Std Dev 0.9433

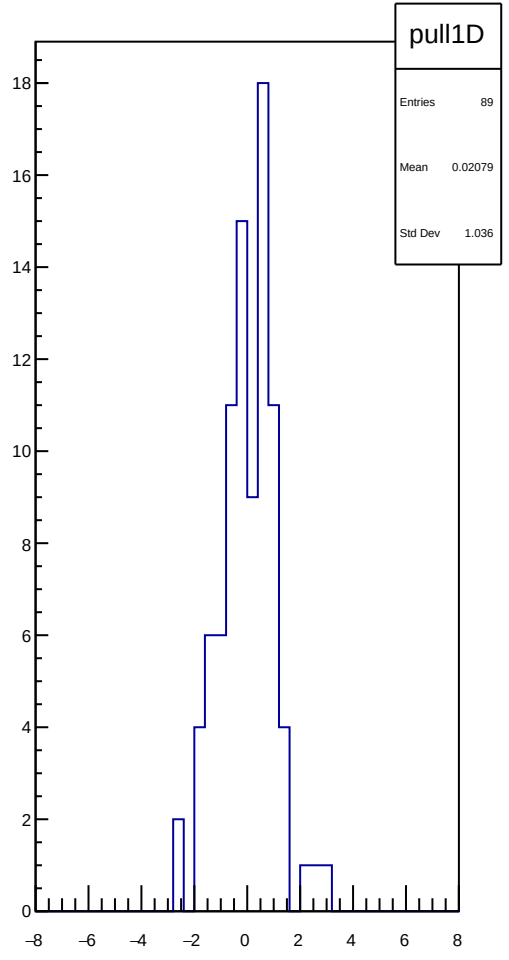

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.179e+04 / 88
p0 213.7 ± 0.1638
340
320
300
280
260
240
220
200
180

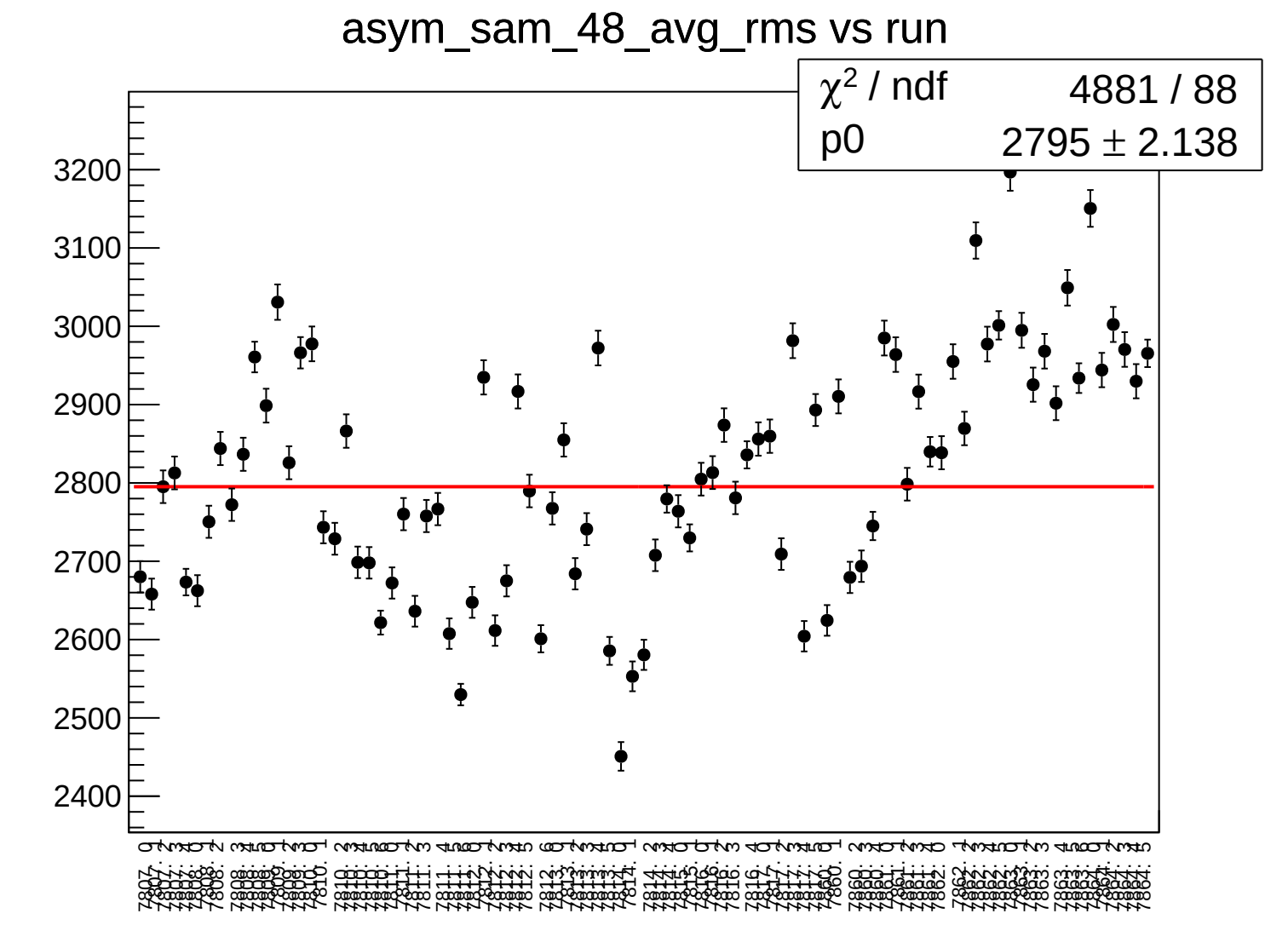

asym_sam_48_avg_correction_mean vs run
×10^3
χ² / ndf 96.85 / 88
p0 −1603 ± 3015
100
50
0
−50
−100
pull
Entries 89
Mean 78.59
Std Dev 32.19
2
1
0
−1
−2
−3

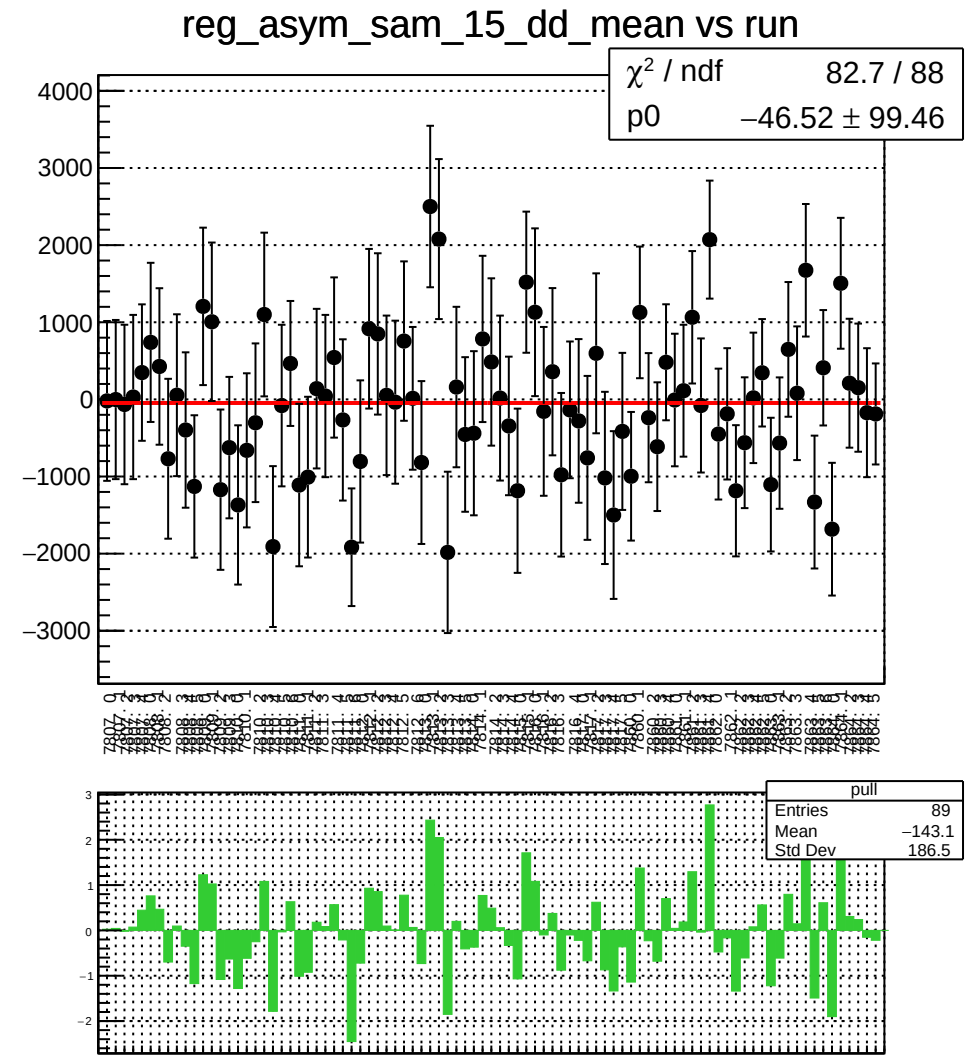

pull1D
Entries 89
Mean −0.02065
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

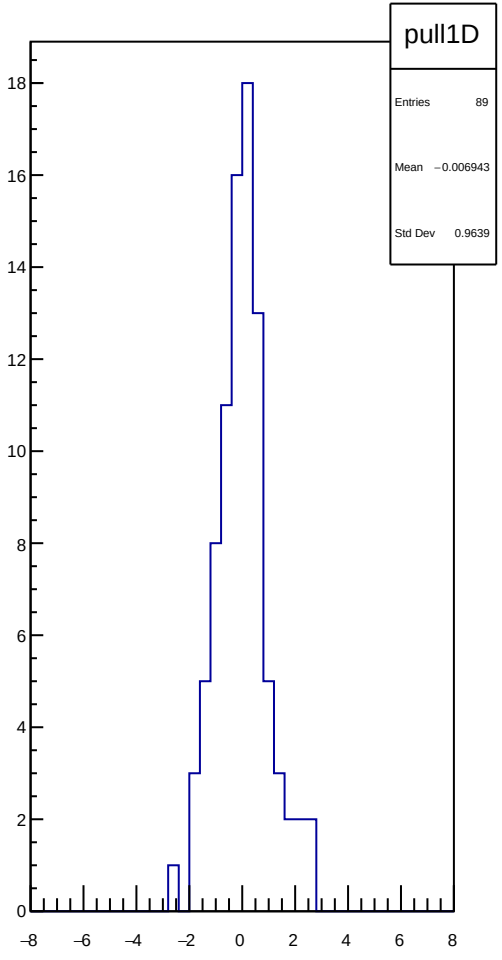

asym_sam_48_avg_correction_rms vs run
χ² / ndf 4890 / 88
p0 2787 ± 2.132
3200
3100
3000
2900
2800
2700
2600
2500
2400

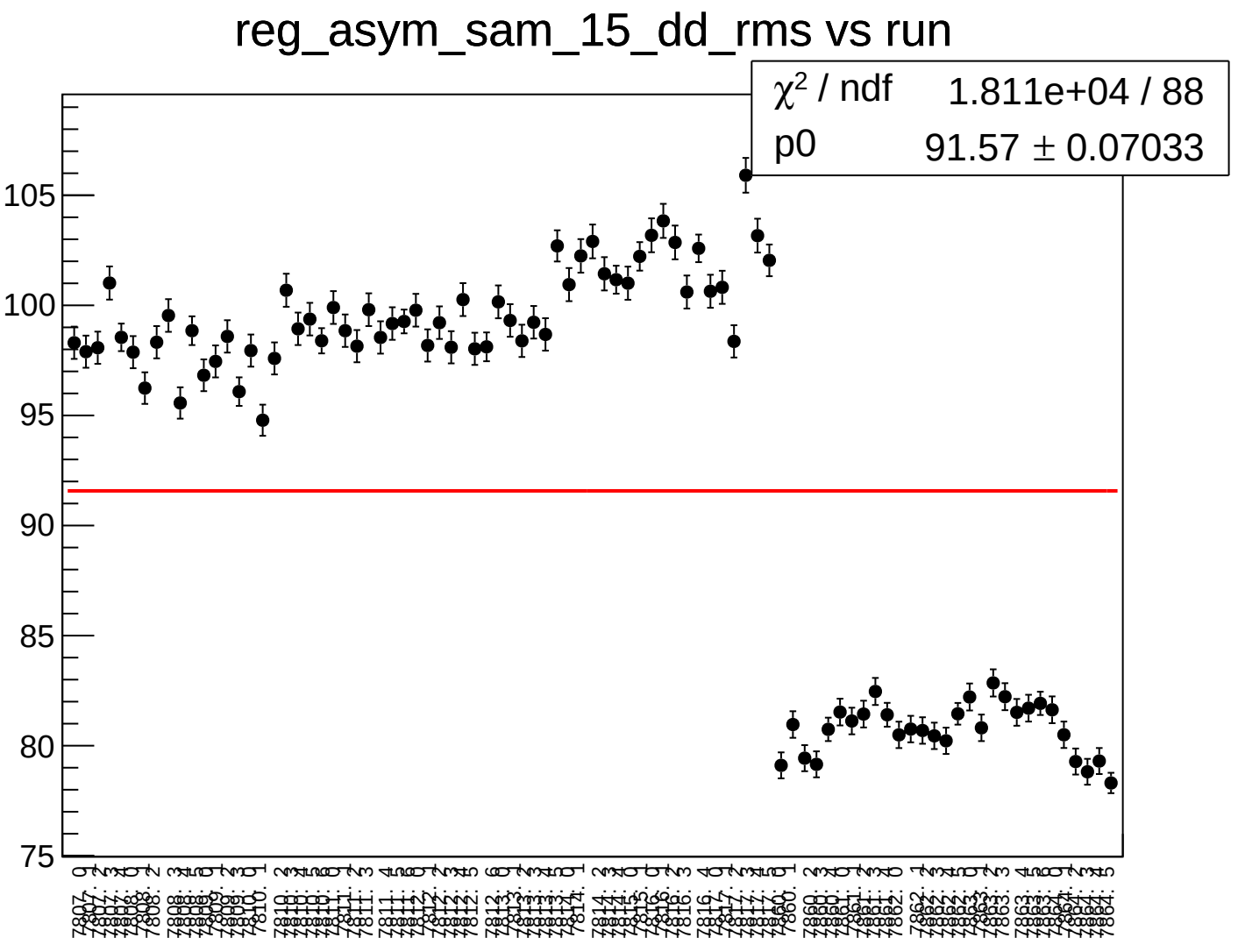

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 95.55 / 88
p0 1601 ± 3024
100
50
0
−50
−100
pull
Entries 89
Mean 71.68
Std Dev 38.94
3
2
1
0
−1
−2

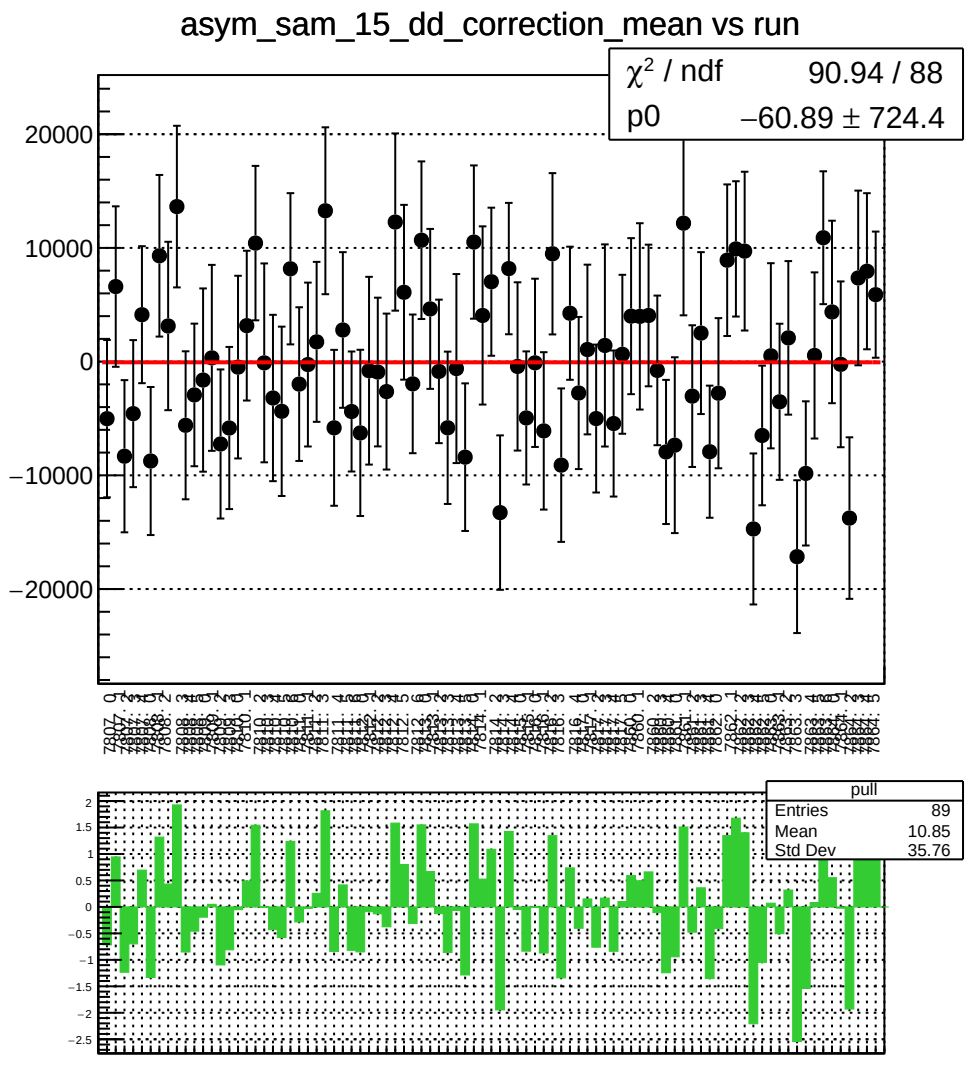

pull1D
Entries 89
Mean 0.02079
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

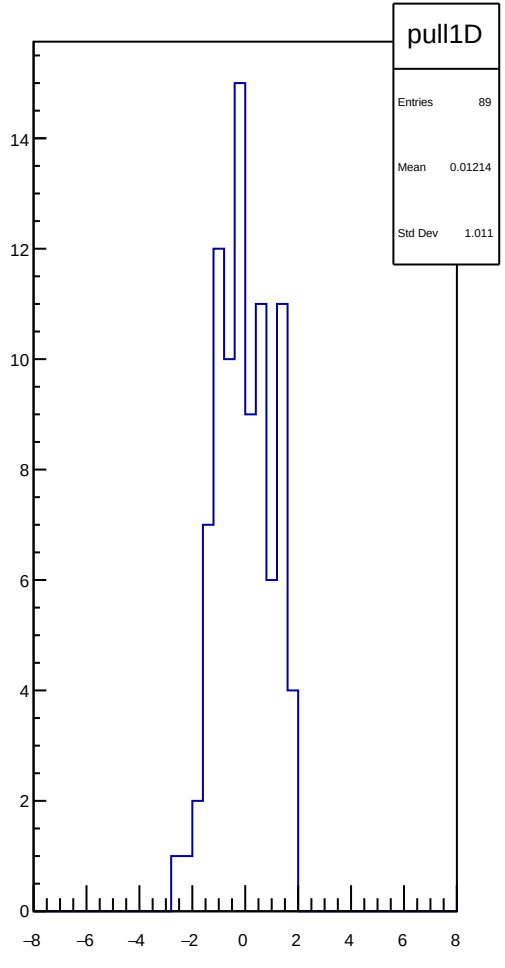

asym_sam_48_avg_rms vs run
χ² / ndf 4881 / 88
p0 2795 ± 2.138
3200
3100
3000
2900
2800
2700
2600
2500
2400

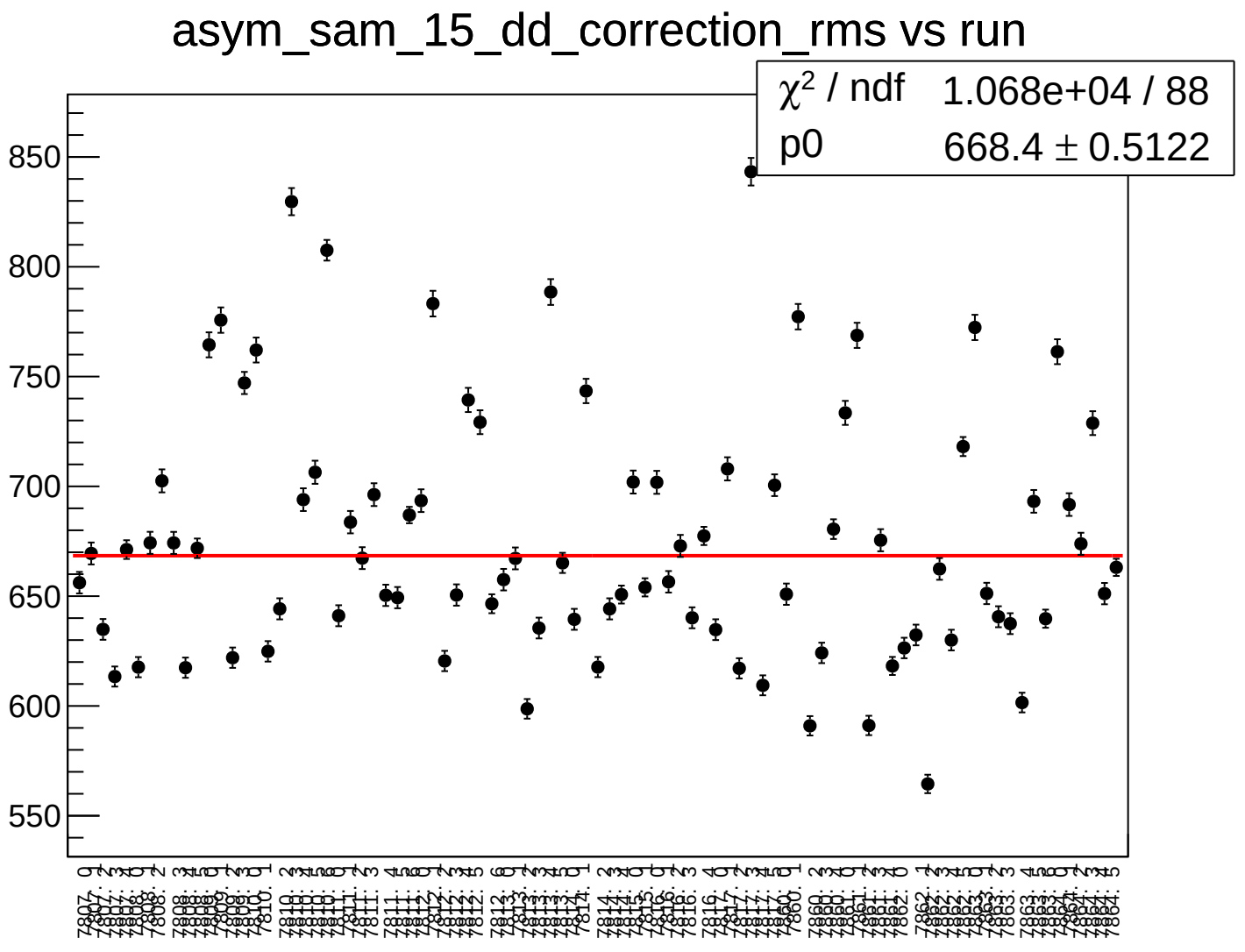

reg_asym_sam_15_dd_mean vs run
χ² / ndf 82.7 / 88
p0 −46.52 ± 99.46
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −143.1
Std Dev 186.5
3
2
1
0
−1
−2

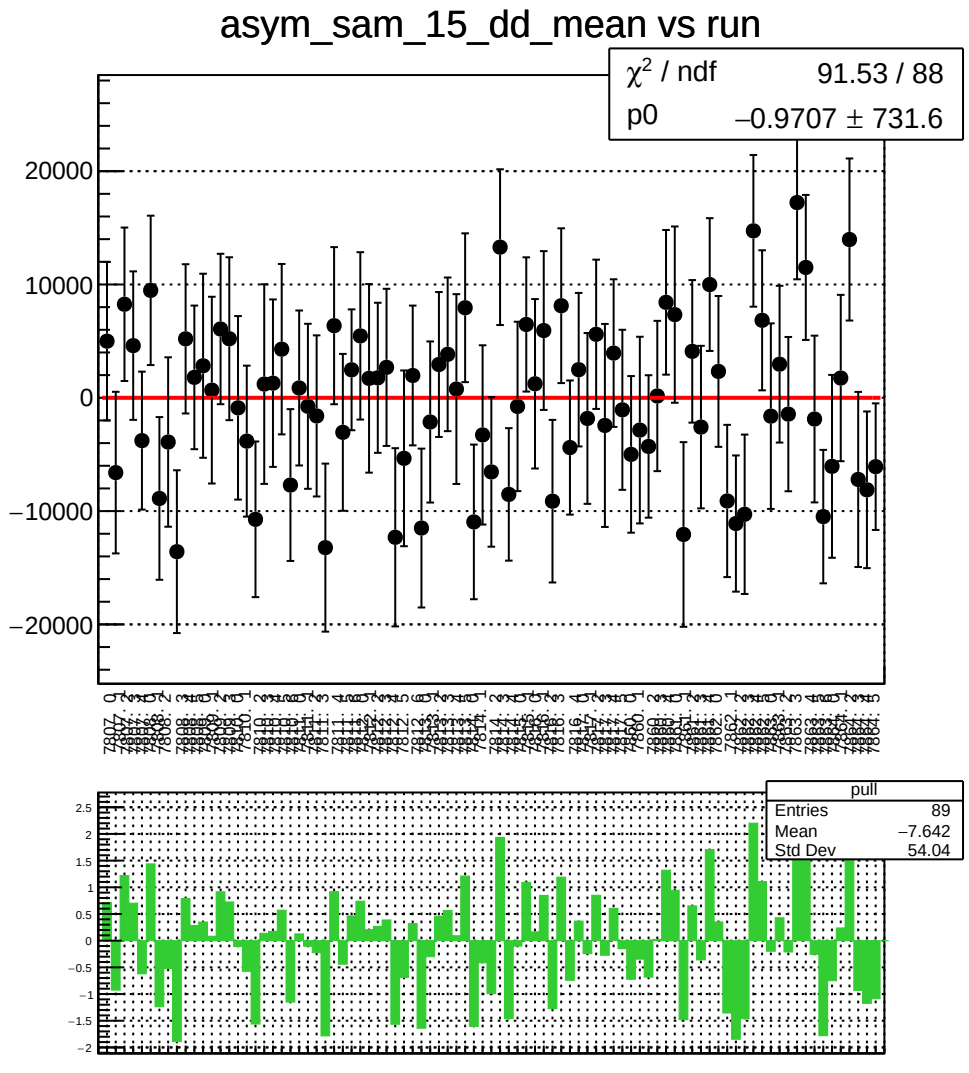

pull1D
Entries 89
Mean −0.006943
Std Dev 0.9639
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

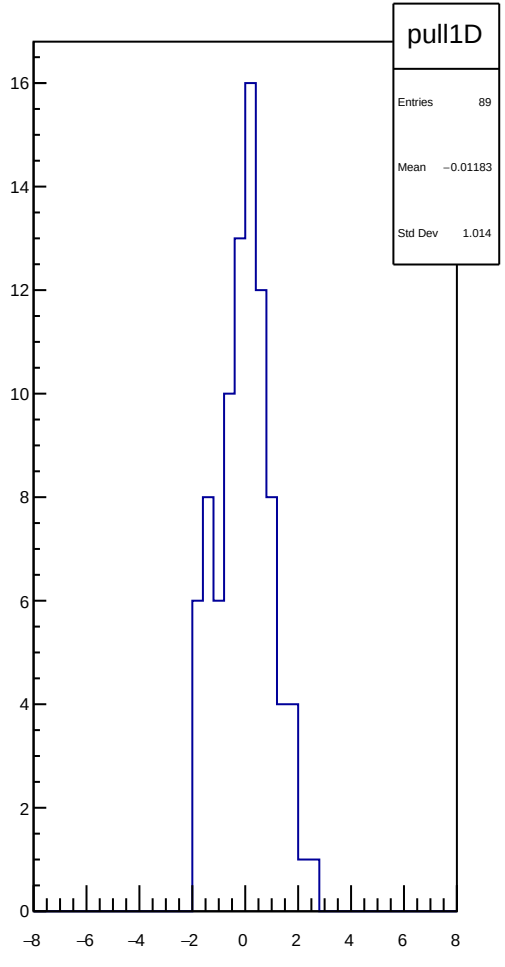

reg_asym_sam_15_dd_rms vs run
χ² / ndf 1.811e+04 / 88
p0 91.57 ± 0.07033
105
100
95
90
85
80
75

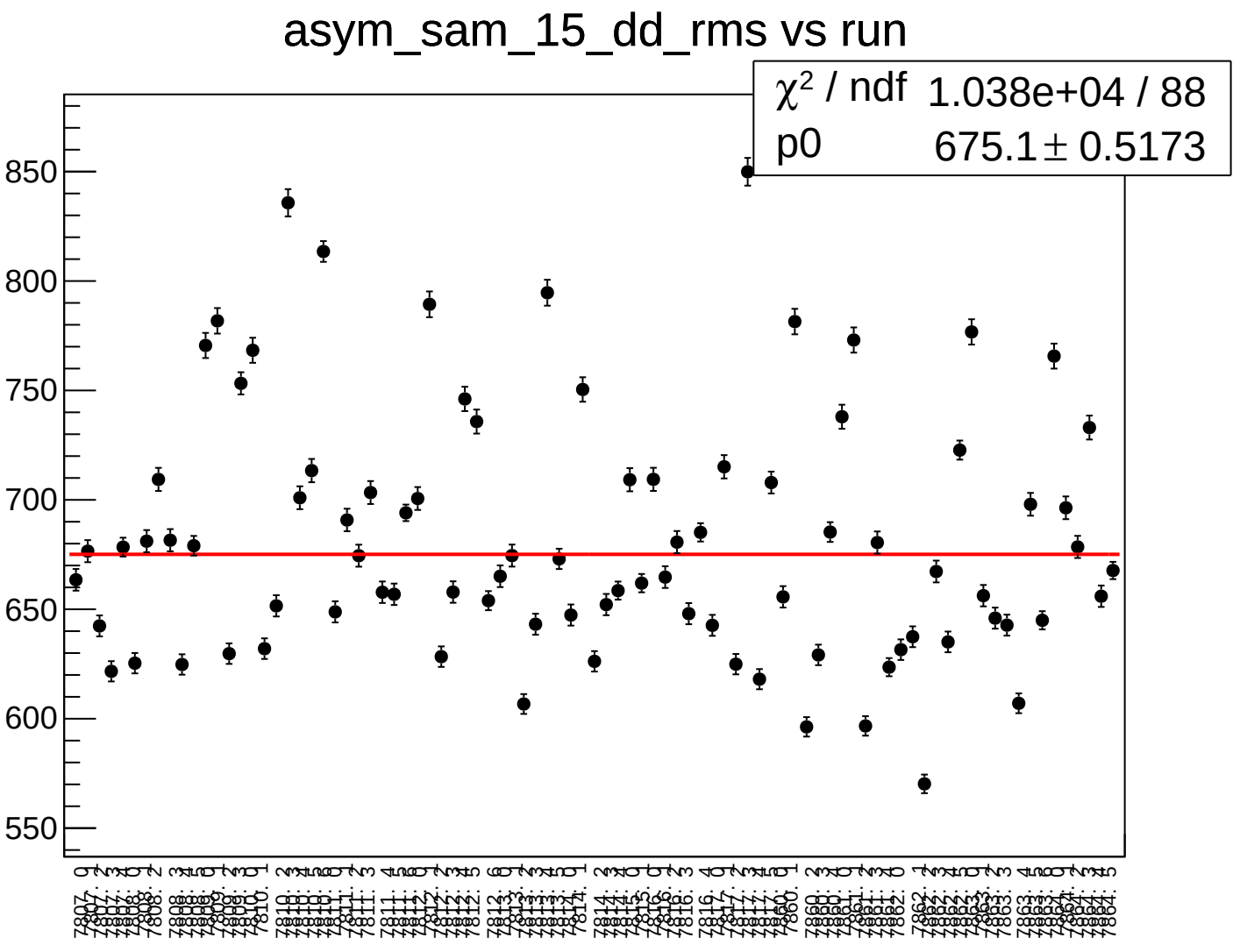

asym_sam_15_dd_correction_mean vs run
χ² / ndf 90.94 / 88
p0 −60.89 ± 724.4
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 10.85
Std Dev 35.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

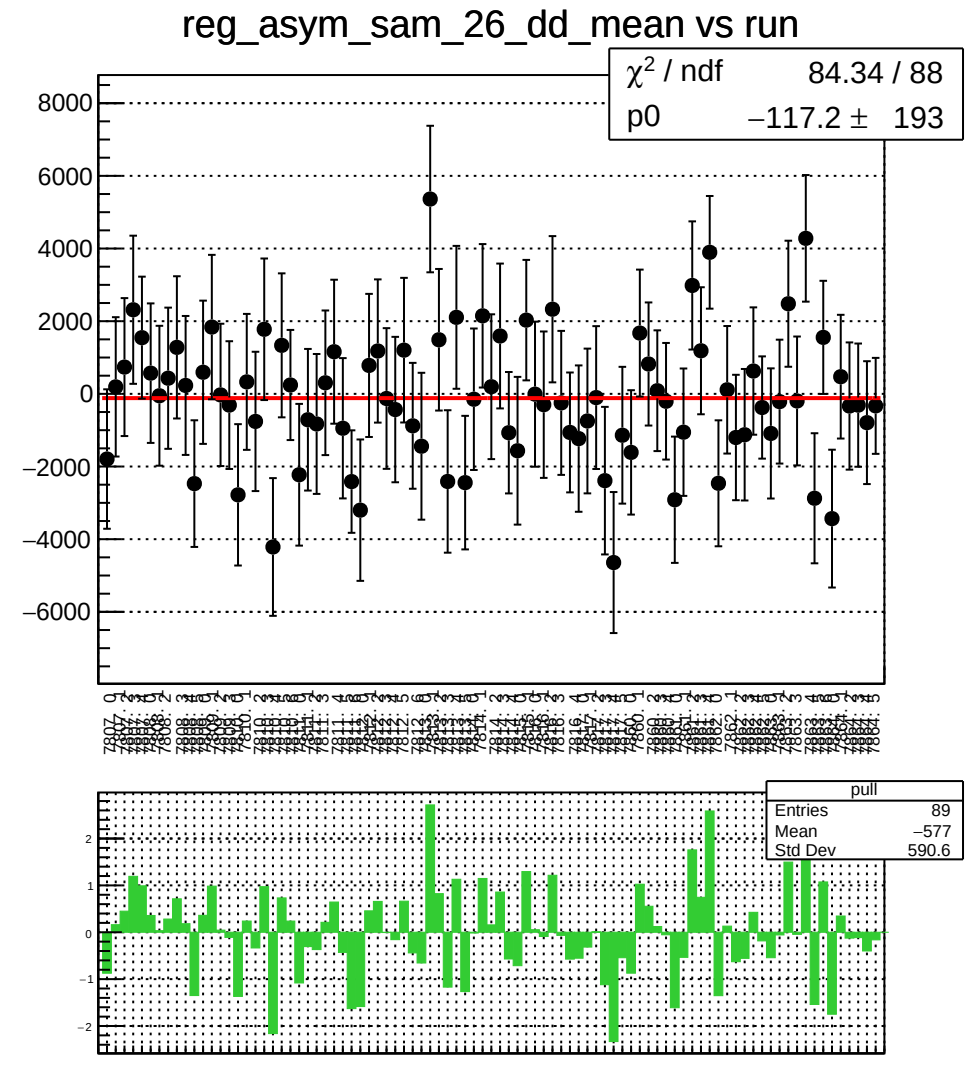

pull1D
Entries 89
Mean 0.01214
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

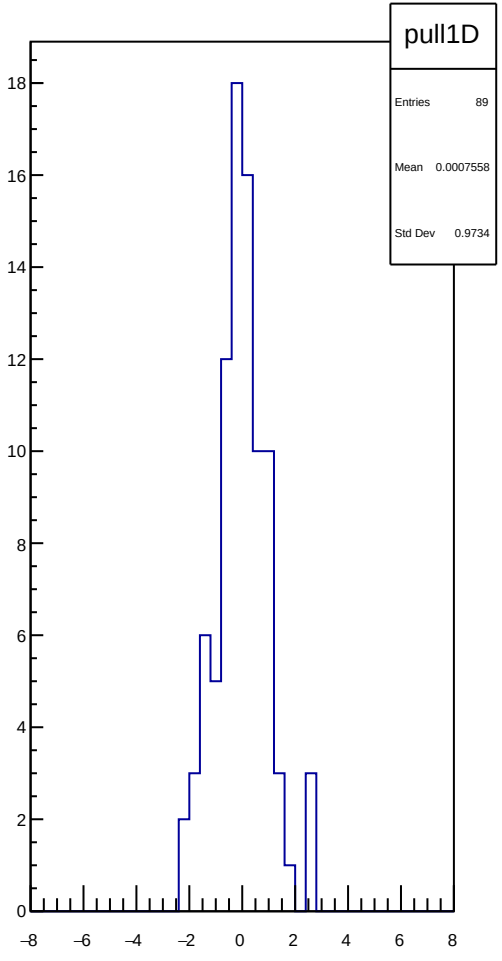

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1.068e+04 / 88
p0 668.4 ± 0.5122
850
800
750
700
650
600
550

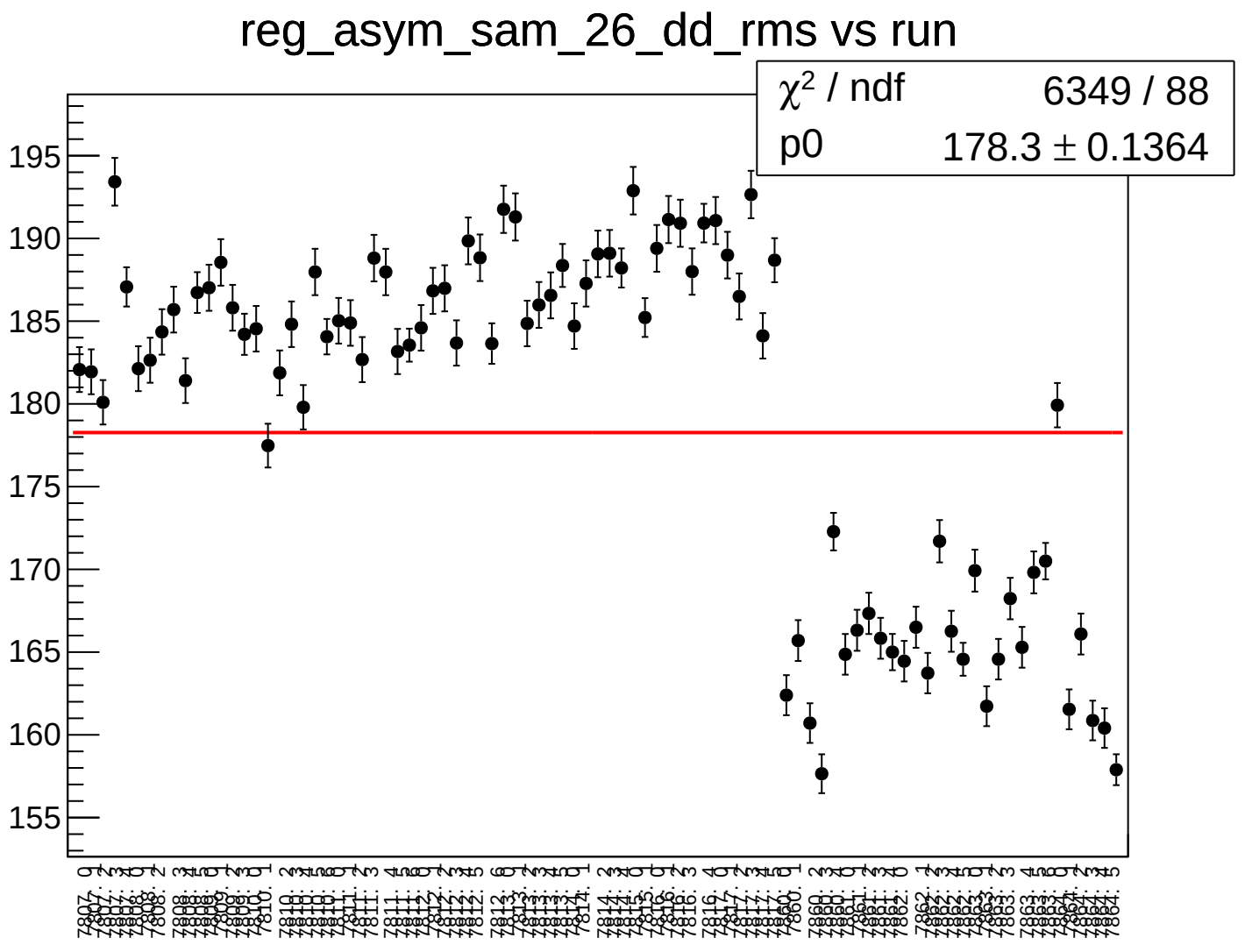

asym_sam_15_dd_mean vs run
χ² / ndf 91.53 / 88
p0 −0.9707 ± 731.6
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −7.642
Std Dev 54.04
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

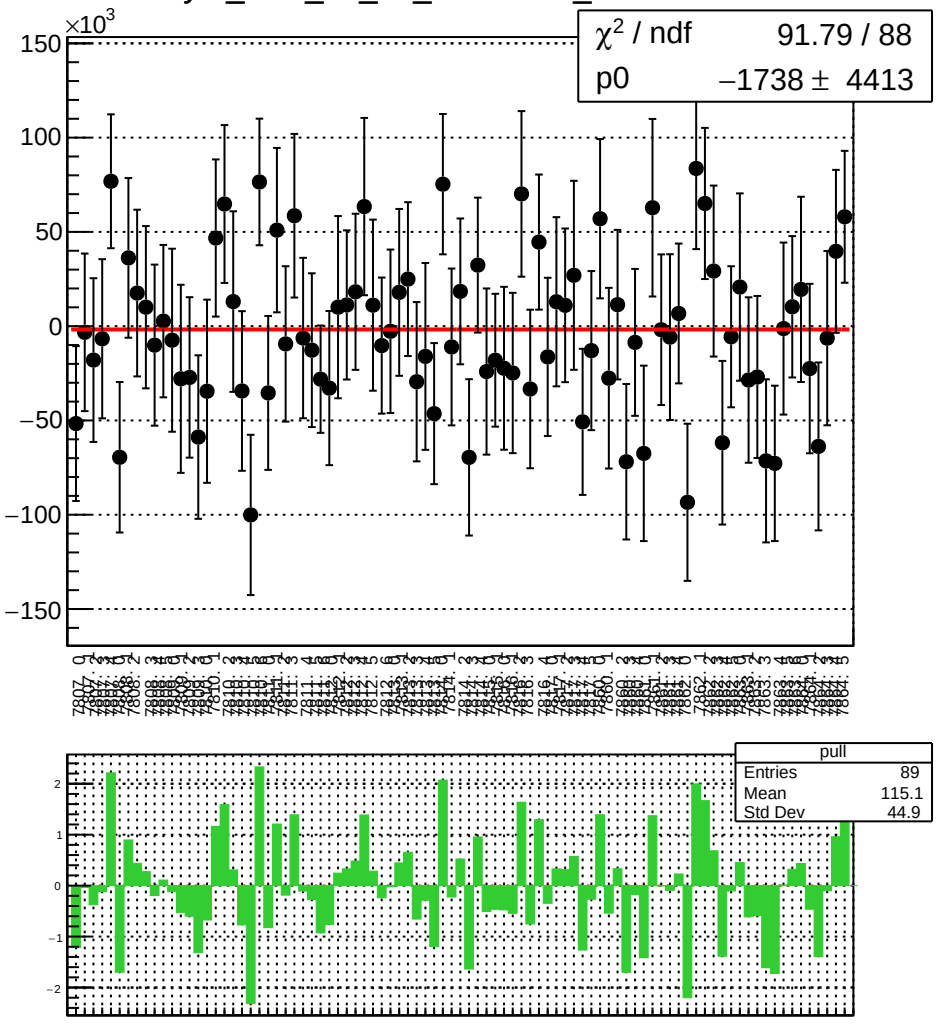

pull1D
Entries 89
Mean −0.01183
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

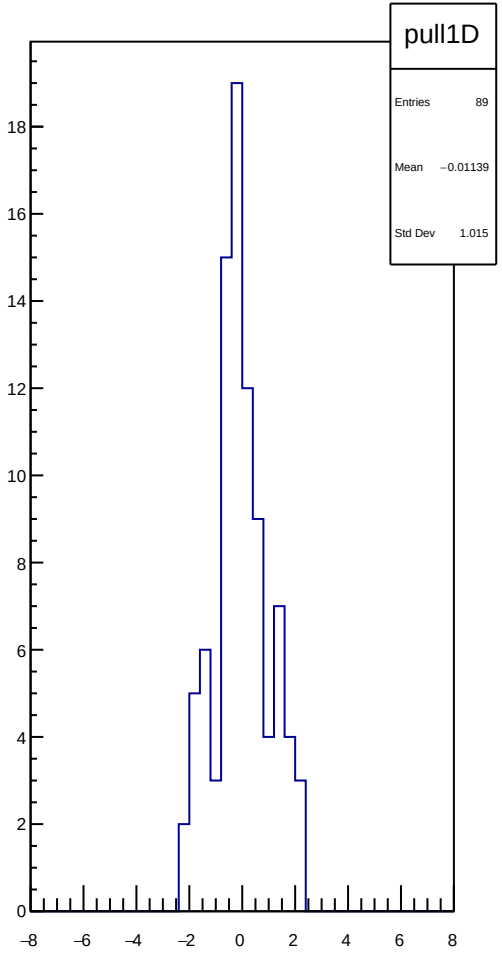

asym_sam_15_dd_rms vs run
χ² / ndf 1.038e+04 / 88
p0 675.1 ± 0.5173
850
800
750
700
650
600
550

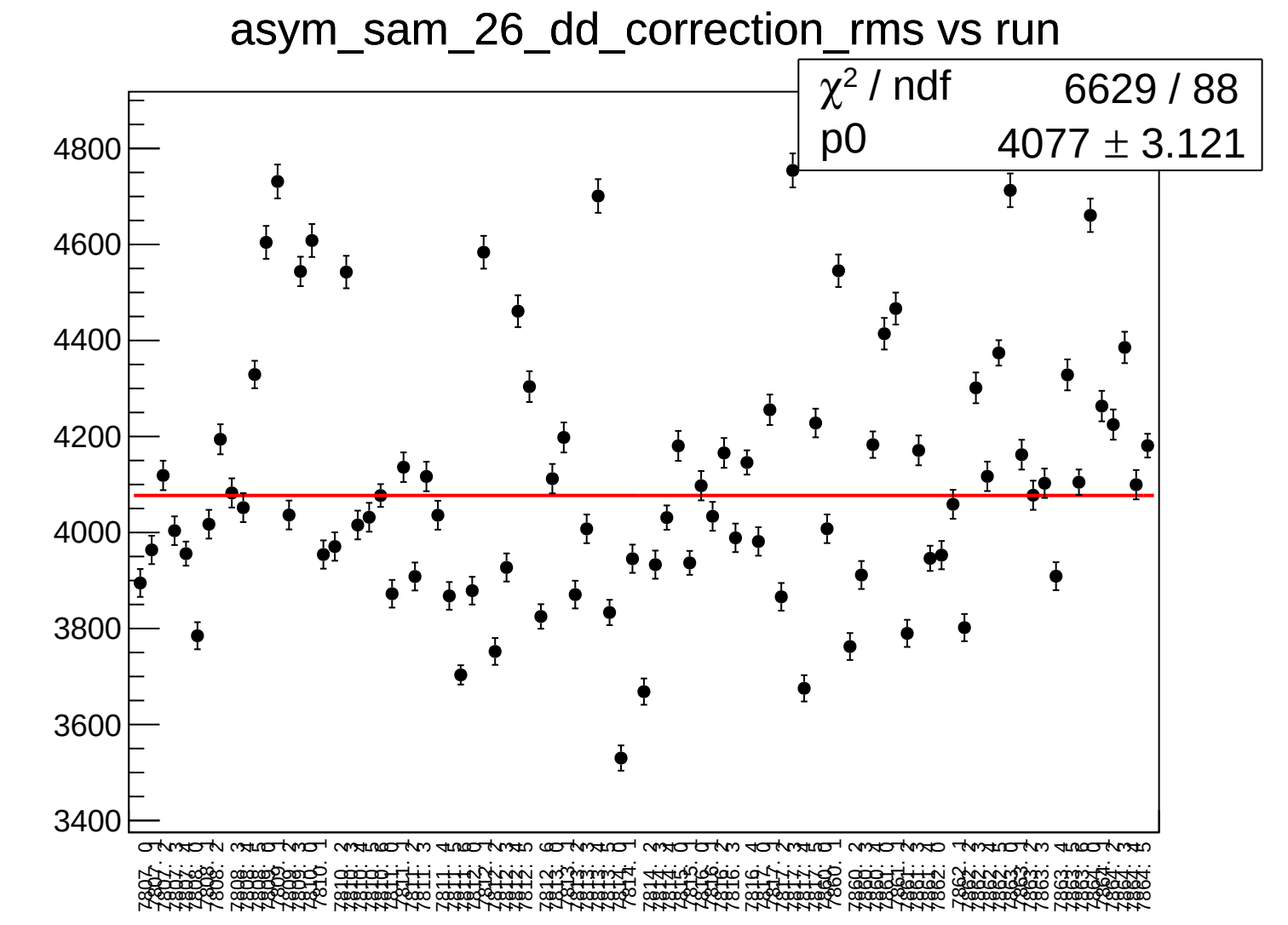

reg_asym_sam_26_dd_mean vs run
χ² / ndf 84.34 / 88
p0 −117.2 ± 193
pull
Entries 89
Mean −577
Std Dev 590.6

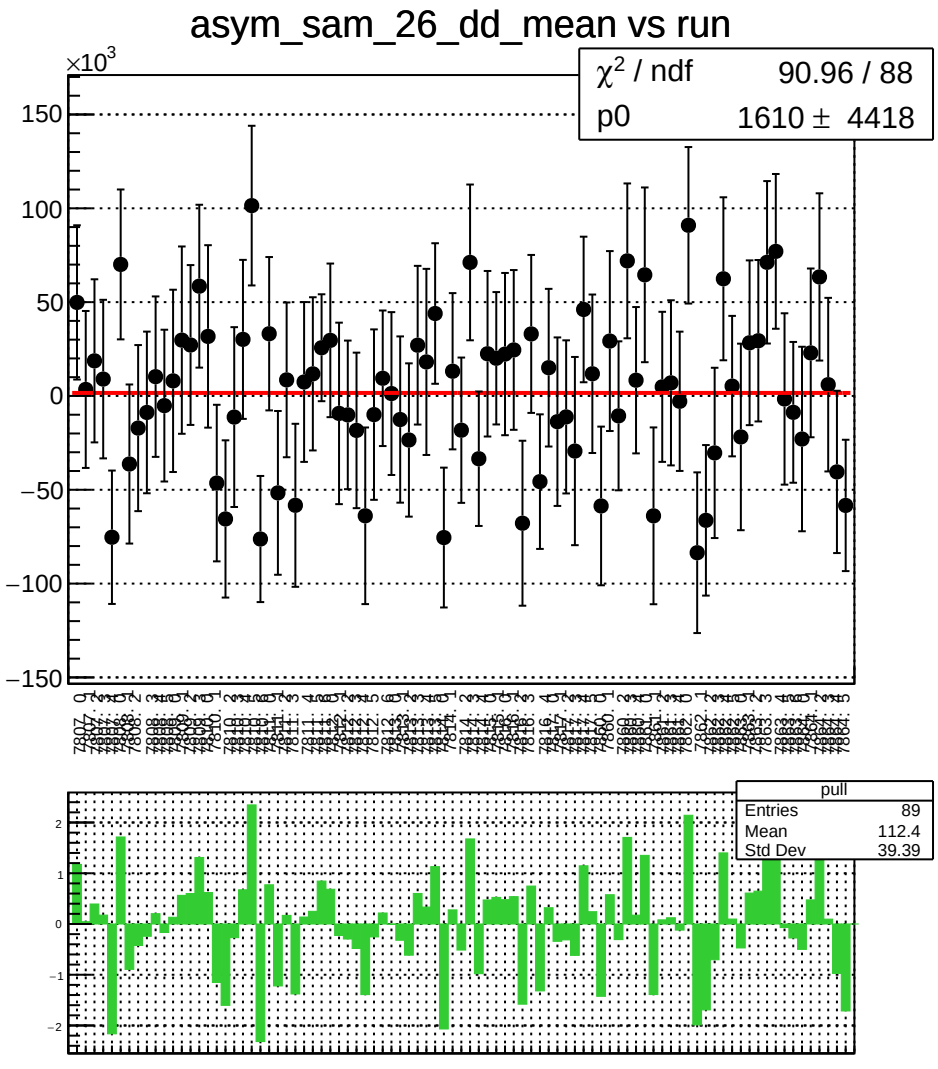

pull1D
Entries 89
Mean 0.0007558
Std Dev 0.9734

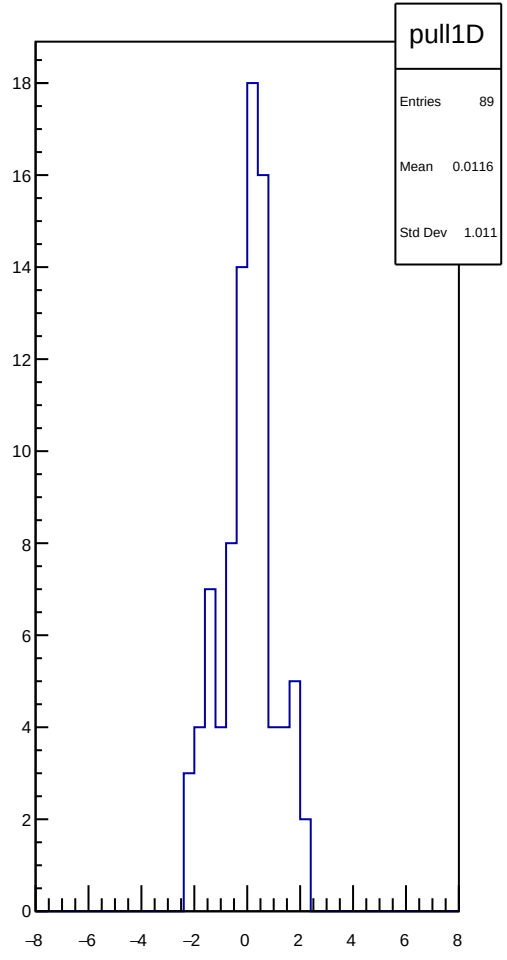

reg_asym_sam_26_dd_rms vs run
χ² / ndf 6349 / 88
p0 178.3 ± 0.1364
195
190
185
180
175
170
165
160
155

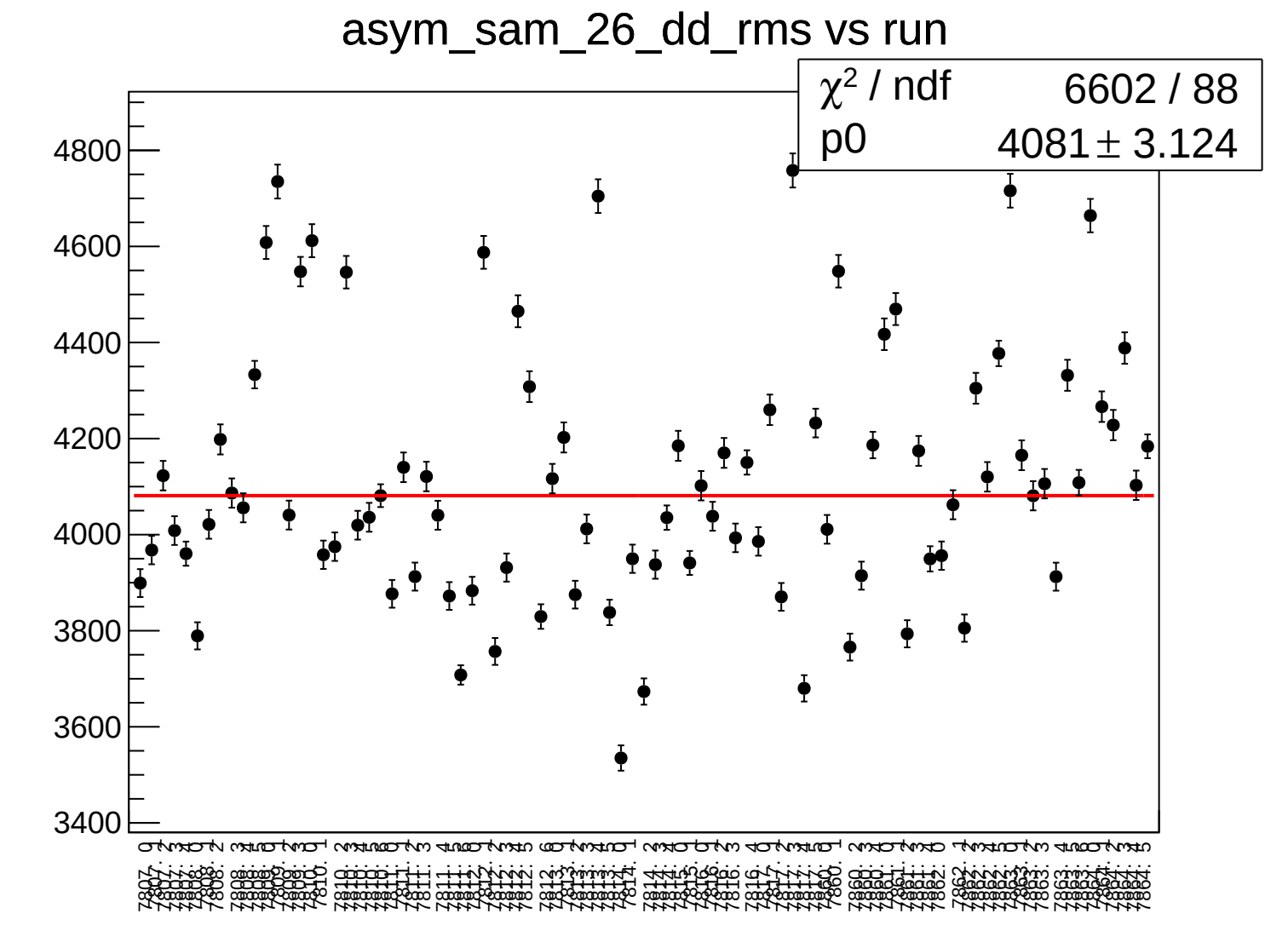

asym_sam_26_dd_correction_mean vs run
χ² / ndf 91.79 / 88
p0 −1738 ± 4413
pull
Entries 89
Mean 115.1
Std Dev 44.9

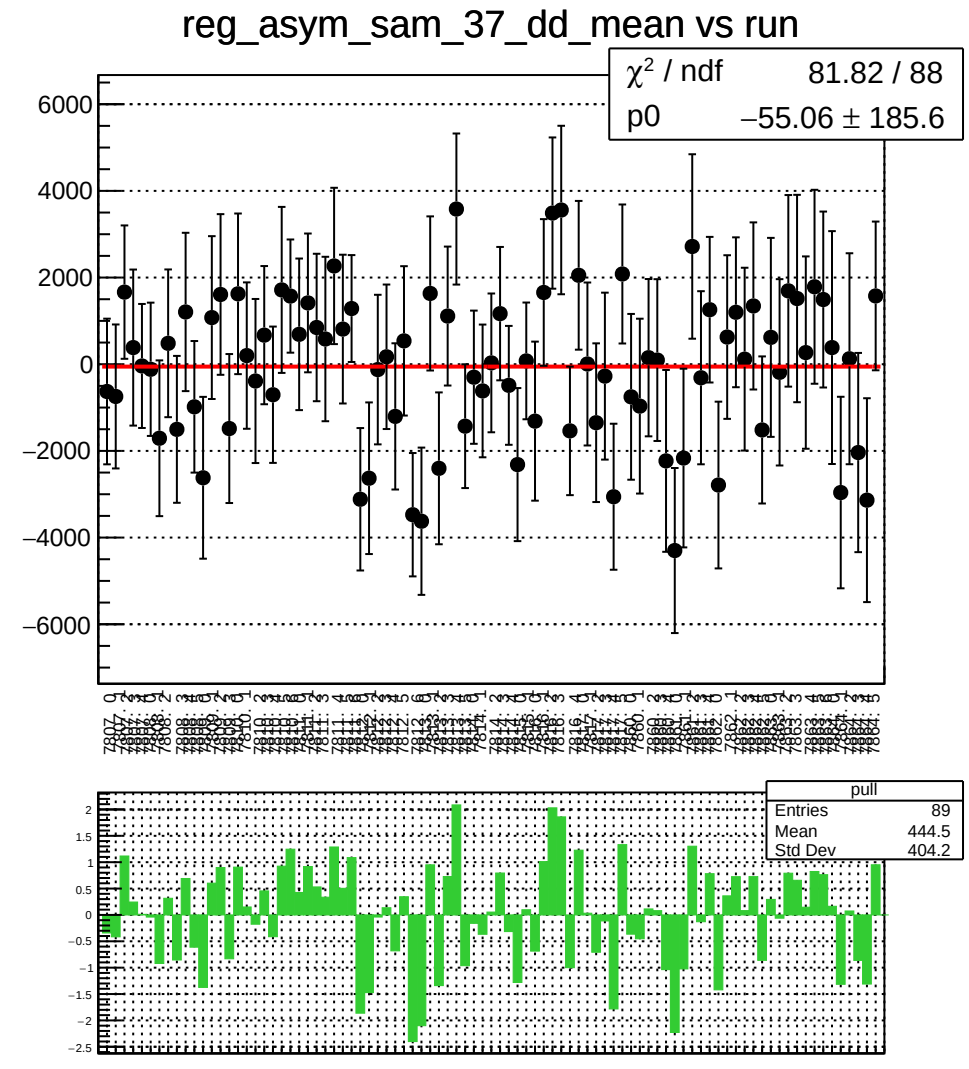

pull1D
Entries 89
Mean −0.01139
Std Dev 1.015

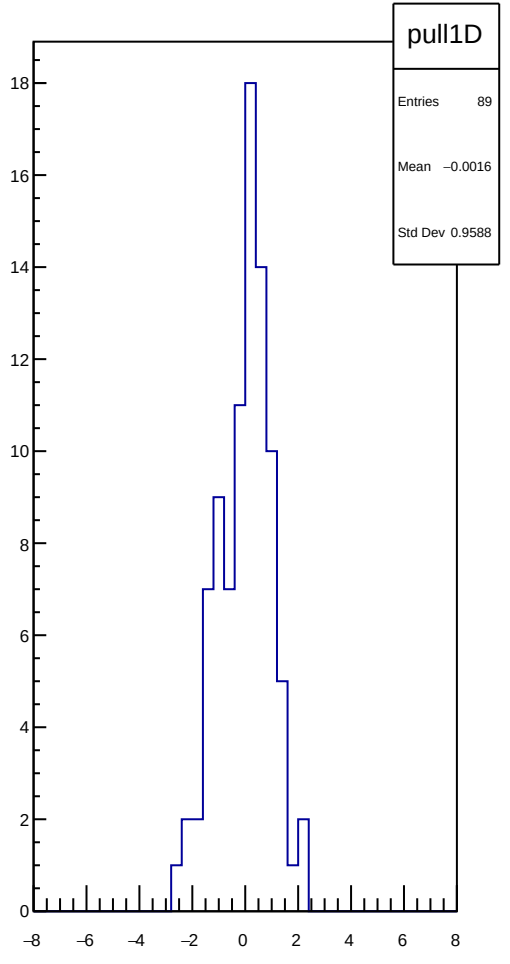

asym_sam_26_dd_correction_rms vs run
χ² / ndf 6629 / 88
p0 4077 ± 3.121
4800
4600
4400
4200
4000
3800
3600
3400

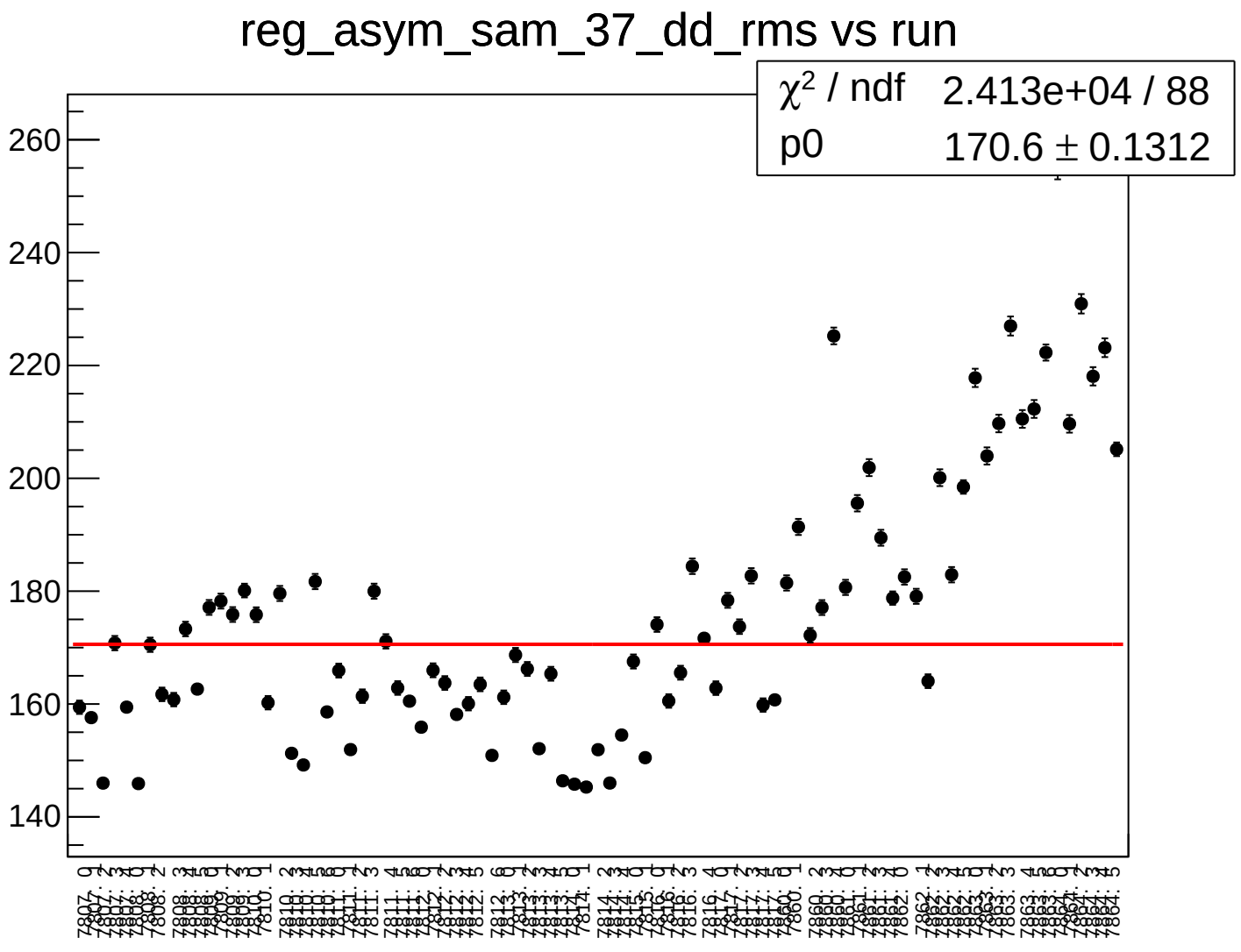

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 90.96 / 88
p0 1610 ± 4418
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 112.4
Std Dev 39.39
2
1
0
−1
−2

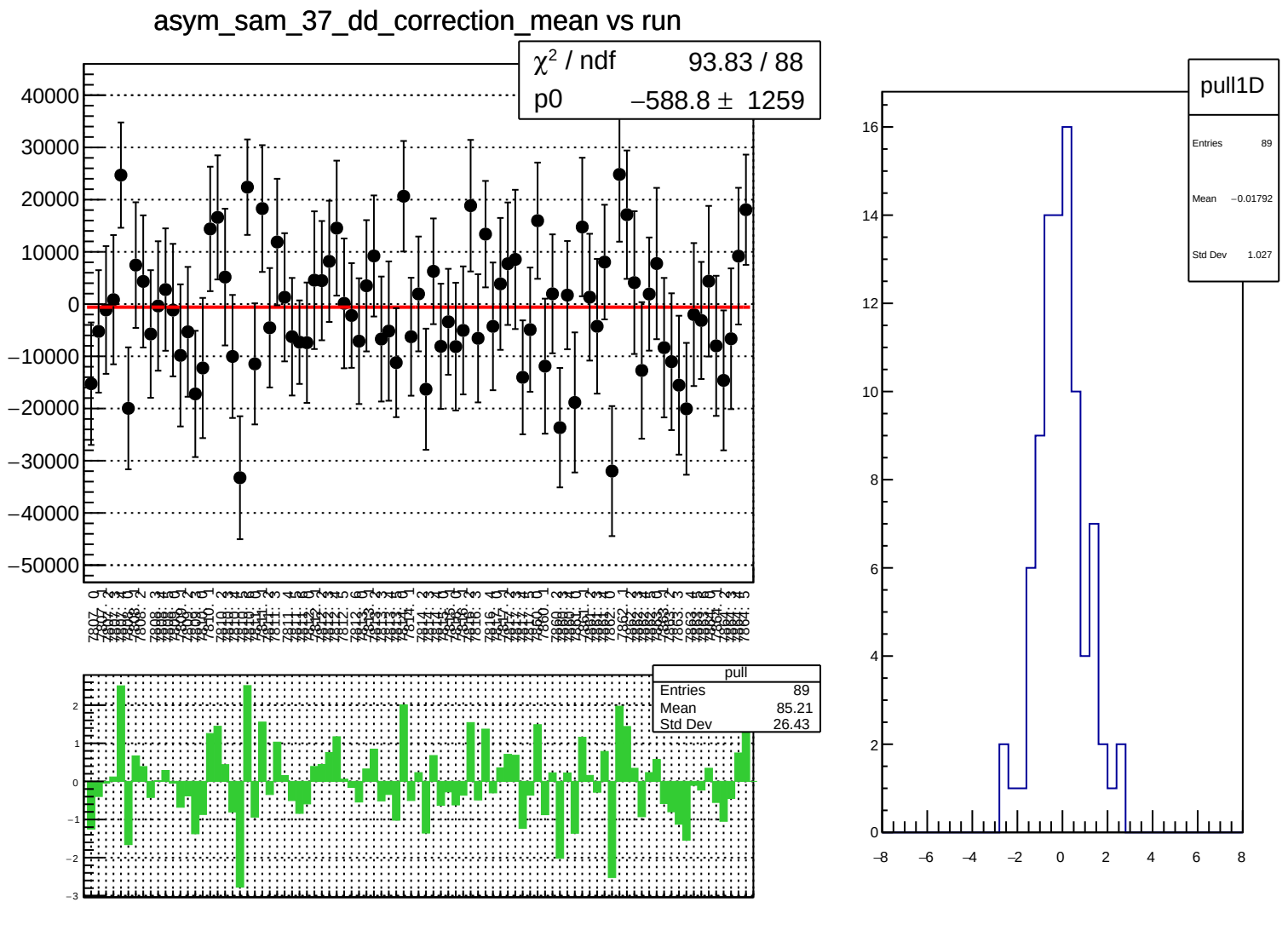

pull1D
Entries 89
Mean 0.0116
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

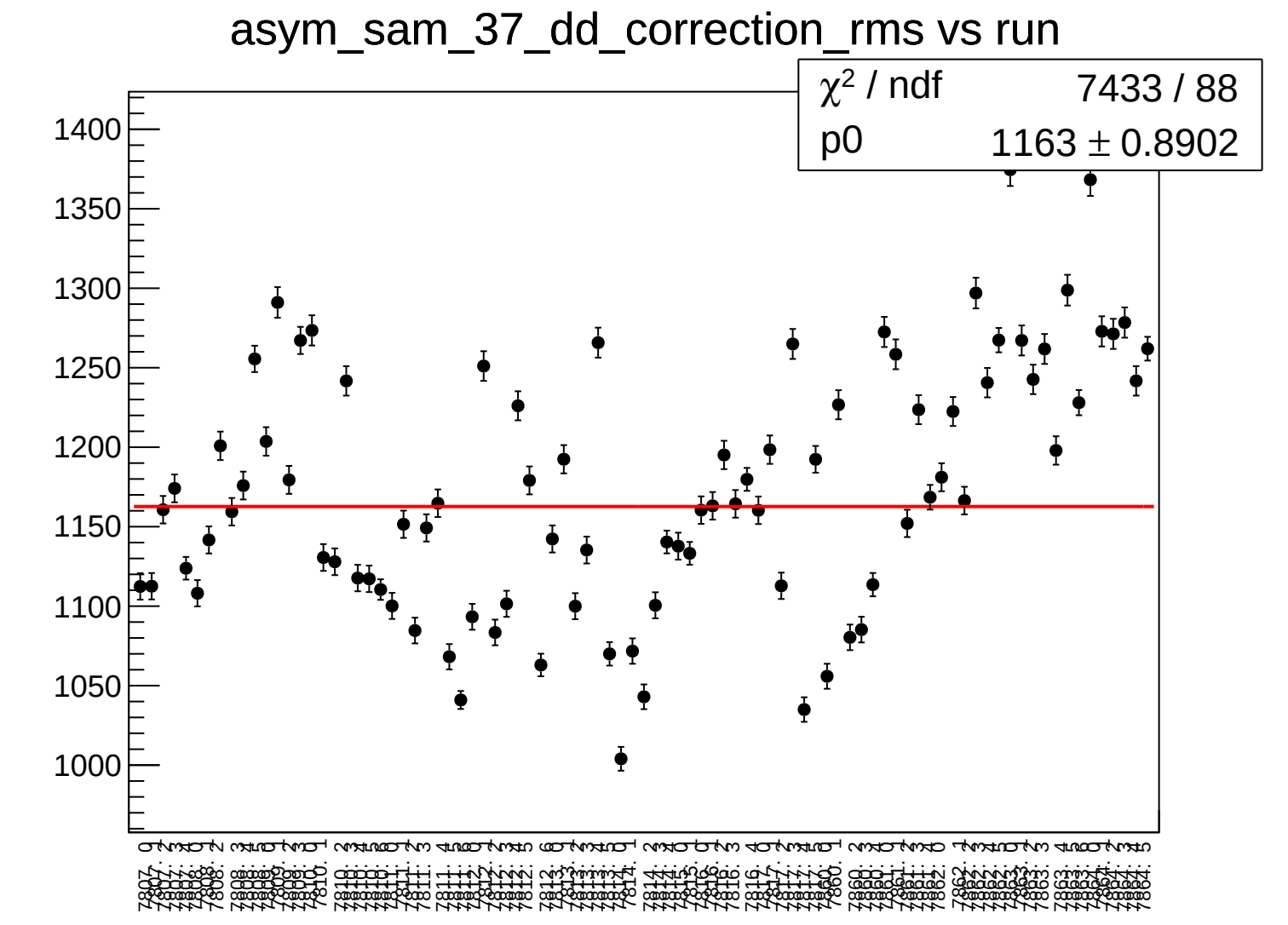

asym_sam_26_dd_rms vs run
χ² / ndf 6602 / 88
p0 4081 ± 3.124
4800
4600
4400
4200
4000
3800
3600
3400

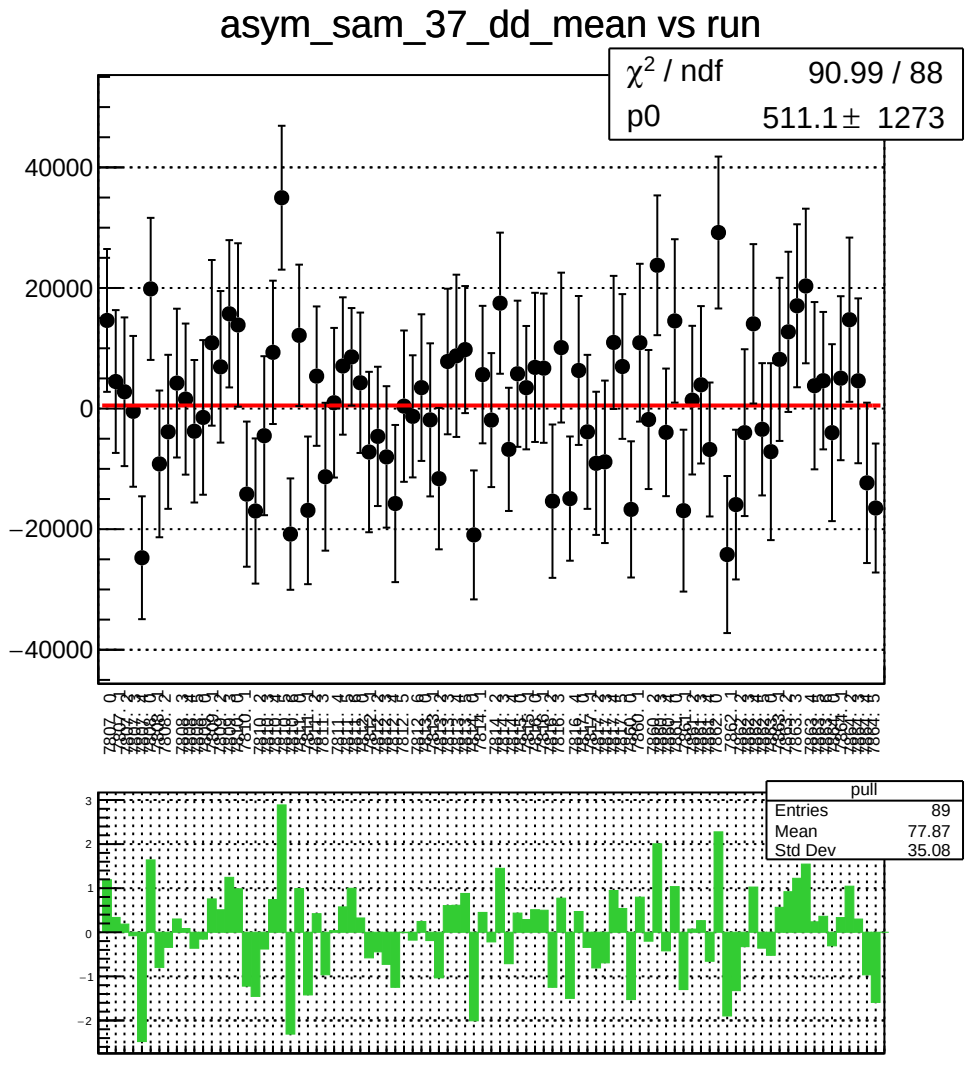

reg_asym_sam_37_dd_mean vs run
χ² / ndf 81.82 / 88
p0 −55.06 ± 185.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 444.5
Std Dev 404.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

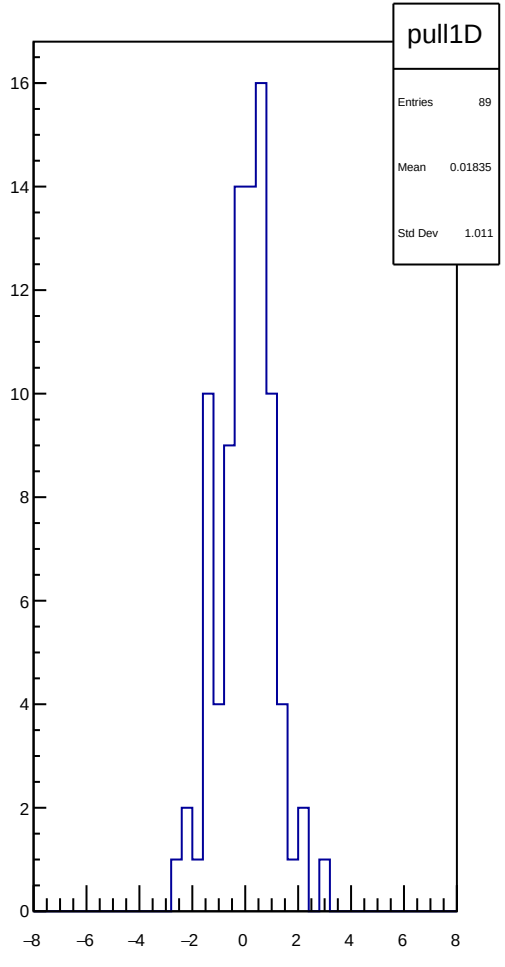

pull1D
Entries 89
Mean −0.0016
Std Dev 0.9588
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

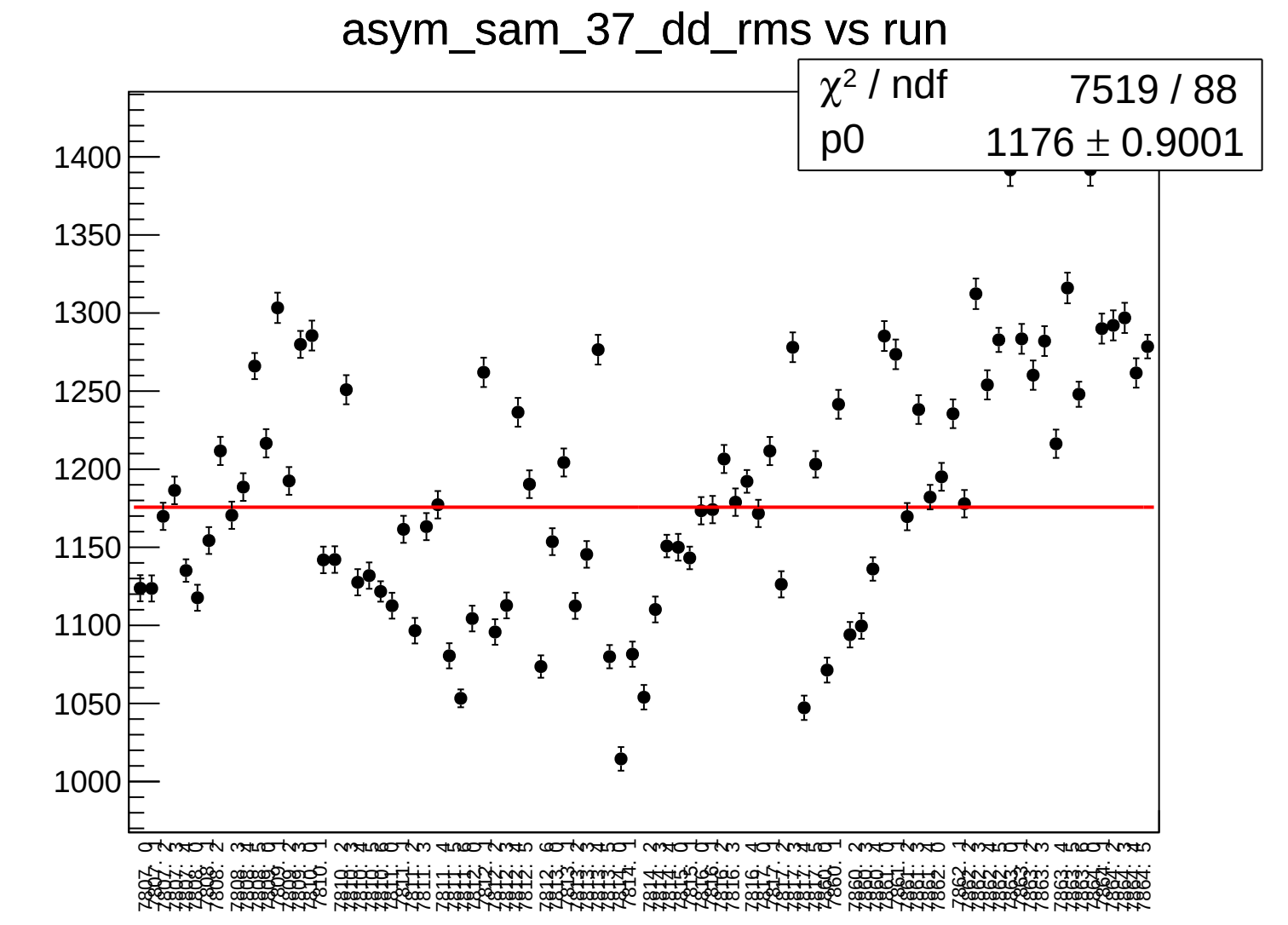

reg_asym_sam_37_dd_rms vs run
χ² / ndf 2.413e+04 / 88
p0 170.6 ± 0.1312
260
240
220
200
180
160
140

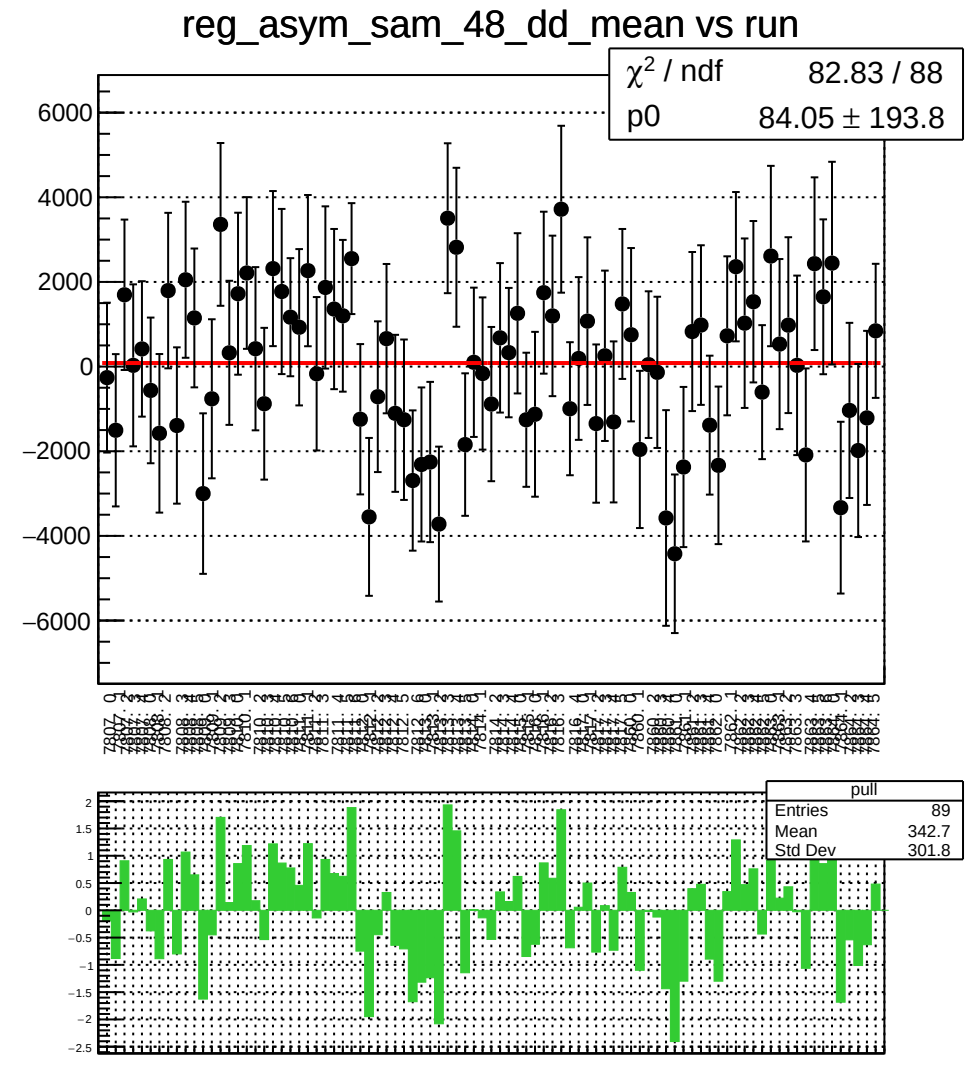

asym_sam_37_dd_correction_mean vs run
χ² / ndf 93.83 / 88
p0 −588.8 ± 1259
pull
Entries 89
Mean 85.21
Std Dev 26.43
pull1D
Entries 89
Mean −0.01792
Std Dev 1.027

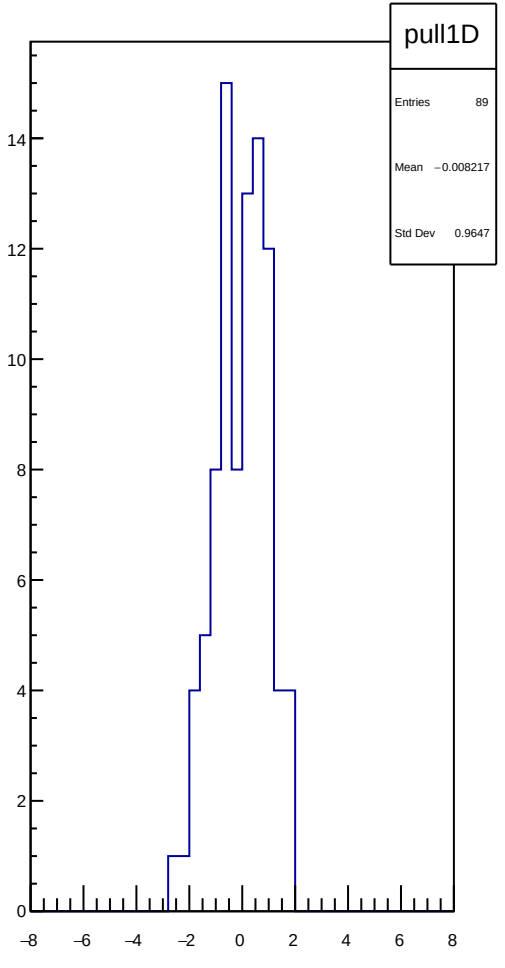

asym_sam_37_dd_correction_rms vs run
χ² / ndf 7433 / 88
p0 1163 ± 0.8902
1400
1350
1300
1250
1200
1150
1100
1050
1000

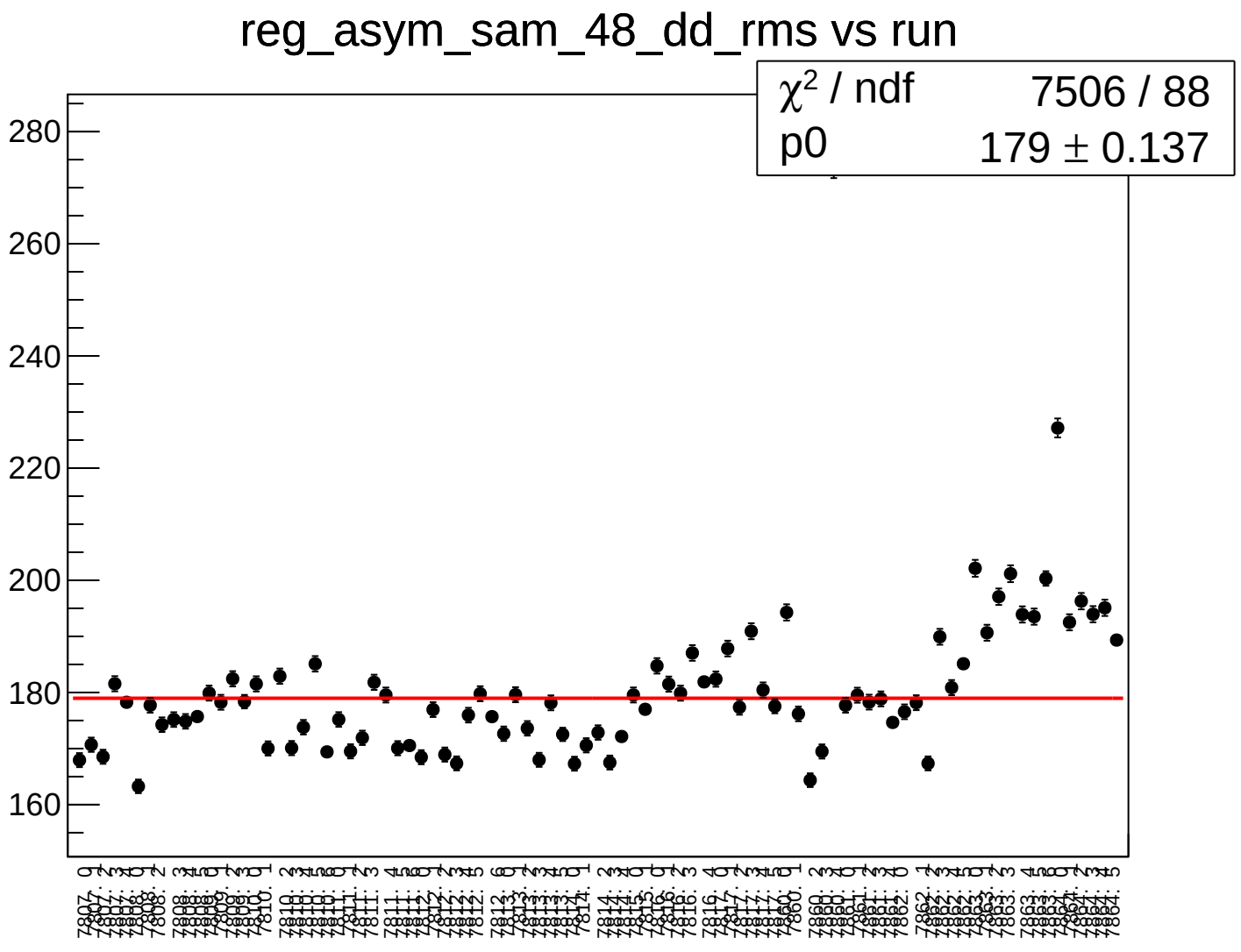

asym_sam_37_dd_mean vs run
χ² / ndf 90.99 / 88
p0 511.1 ± 1273
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 77.87
Std Dev 35.08
3
2
1
0
−1
−2

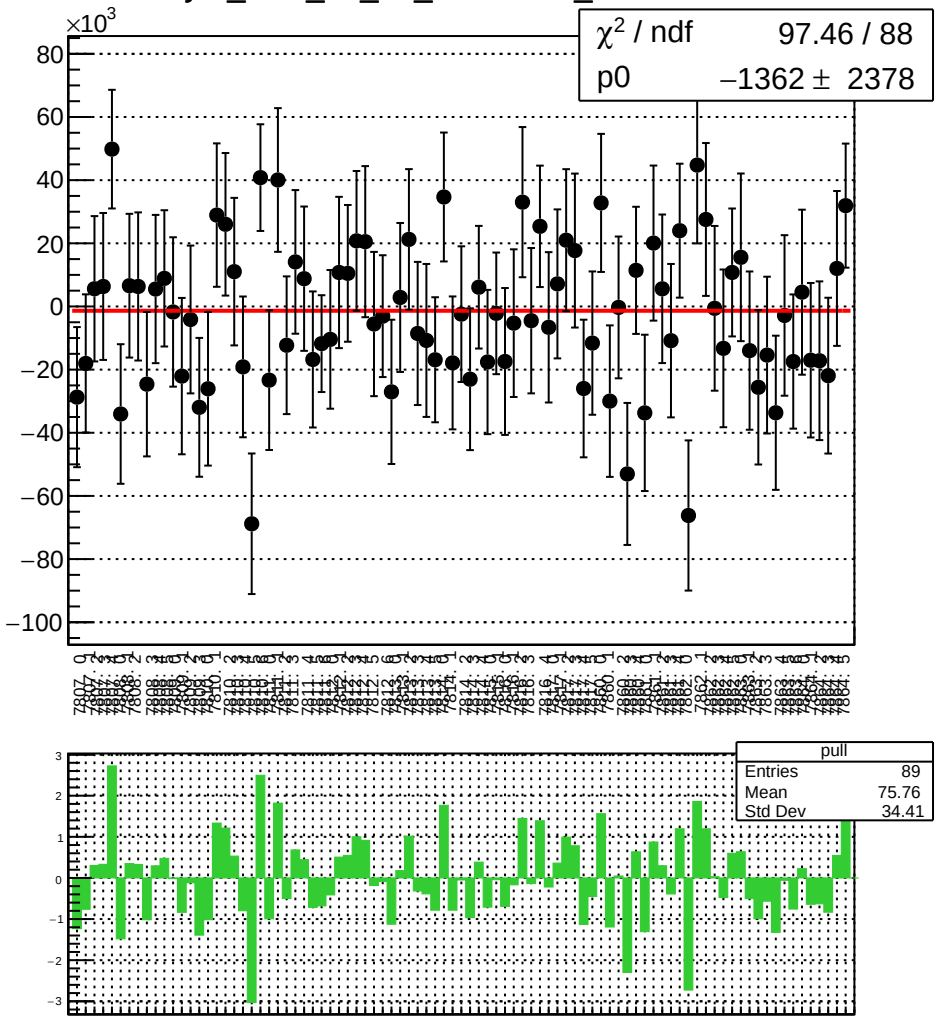

pull1D
Entries 89
Mean 0.01835
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

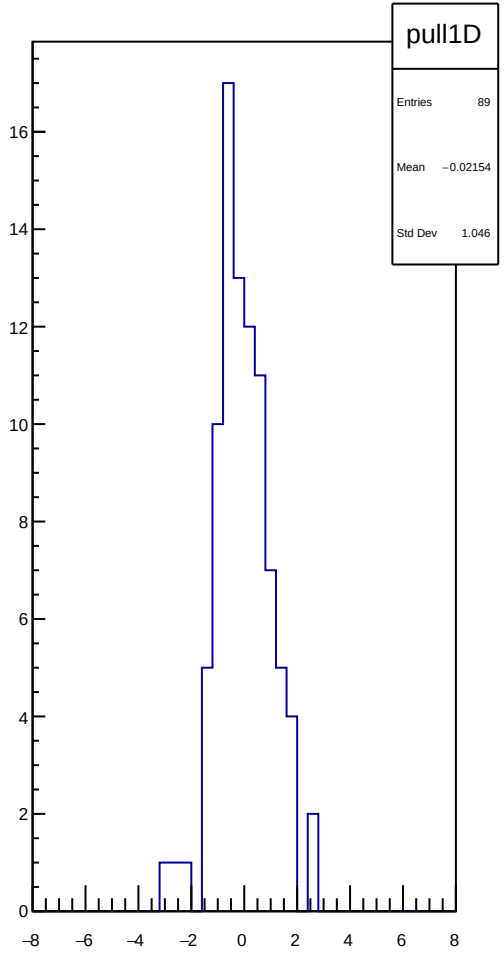

asym_sam_37_dd_rms vs run
χ² / ndf 7519 / 88
p0 1176 ± 0.9001
1400
1350
1300
1250
1200
1150
1100
1050
1000

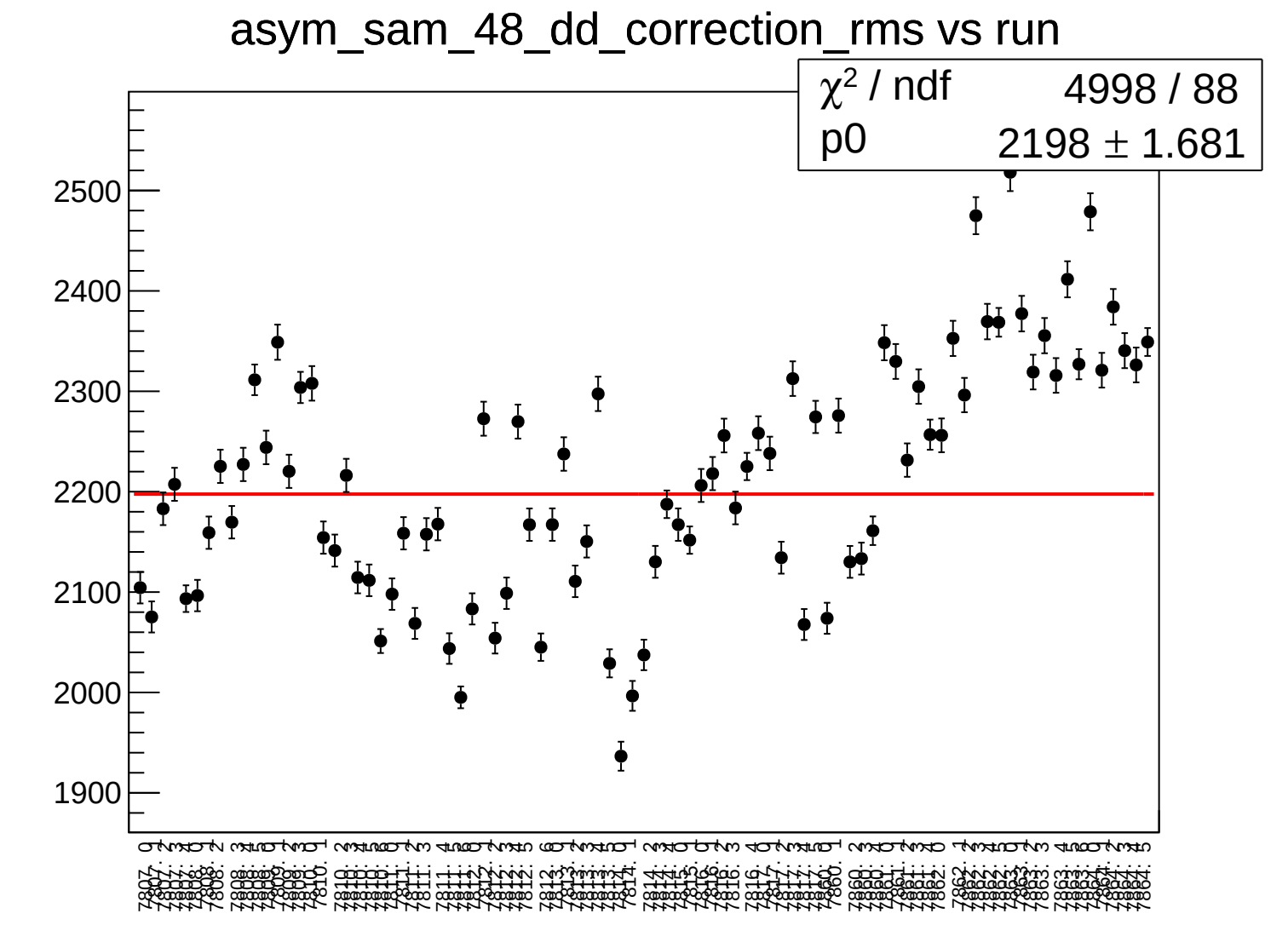

reg_asym_sam_48_dd_mean vs run
χ² / ndf 82.83 / 88
p0 84.05 ± 193.8
pull
Entries 89
Mean 342.7
Std Dev 301.8

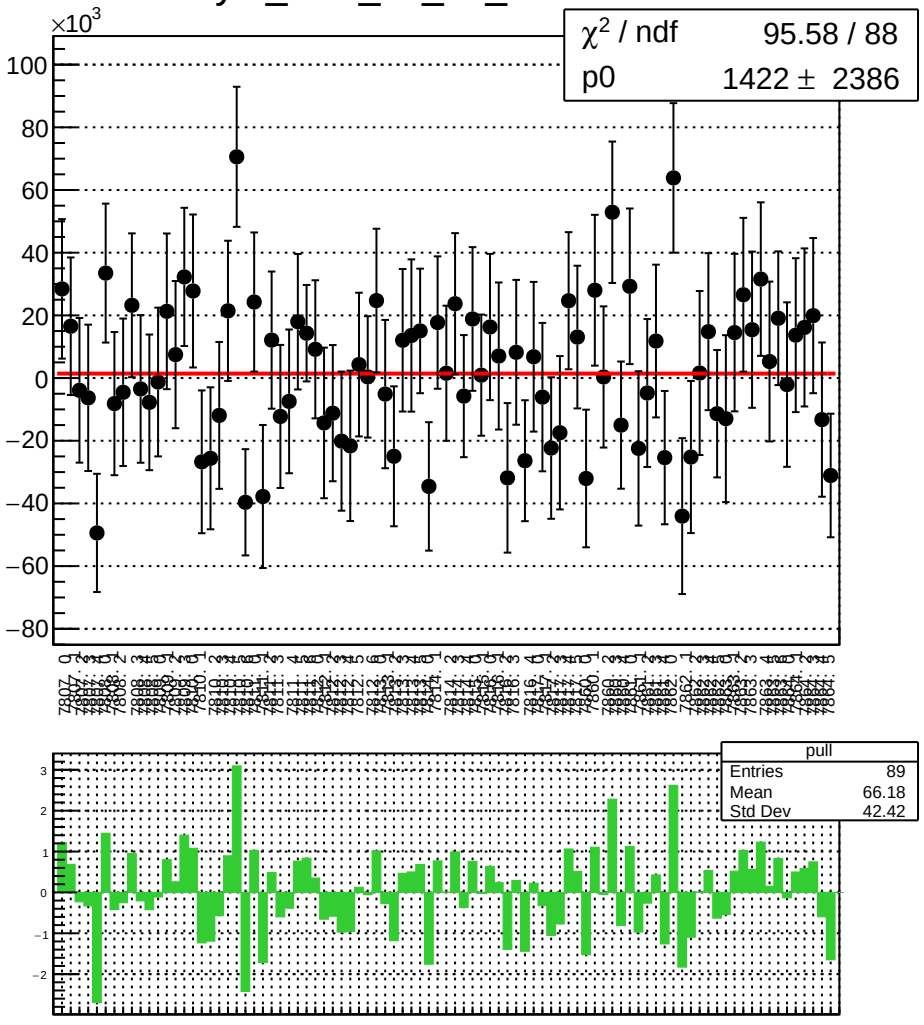

pull1D
Entries 89
Mean −0.008217
Std Dev 0.9647

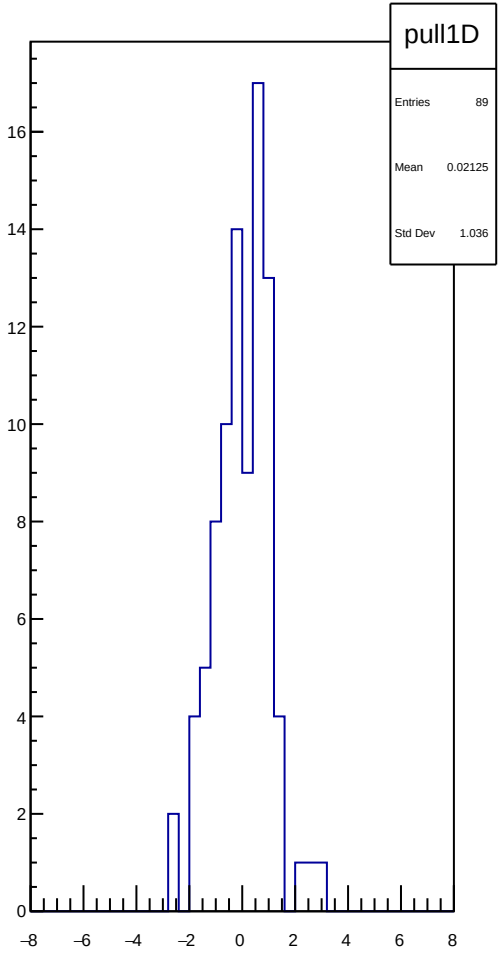

reg_asym_sam_48_dd_rms vs run
χ² / ndf 7506 / 88
p0 179 ± 0.137
280
260
240
220
200
180
160

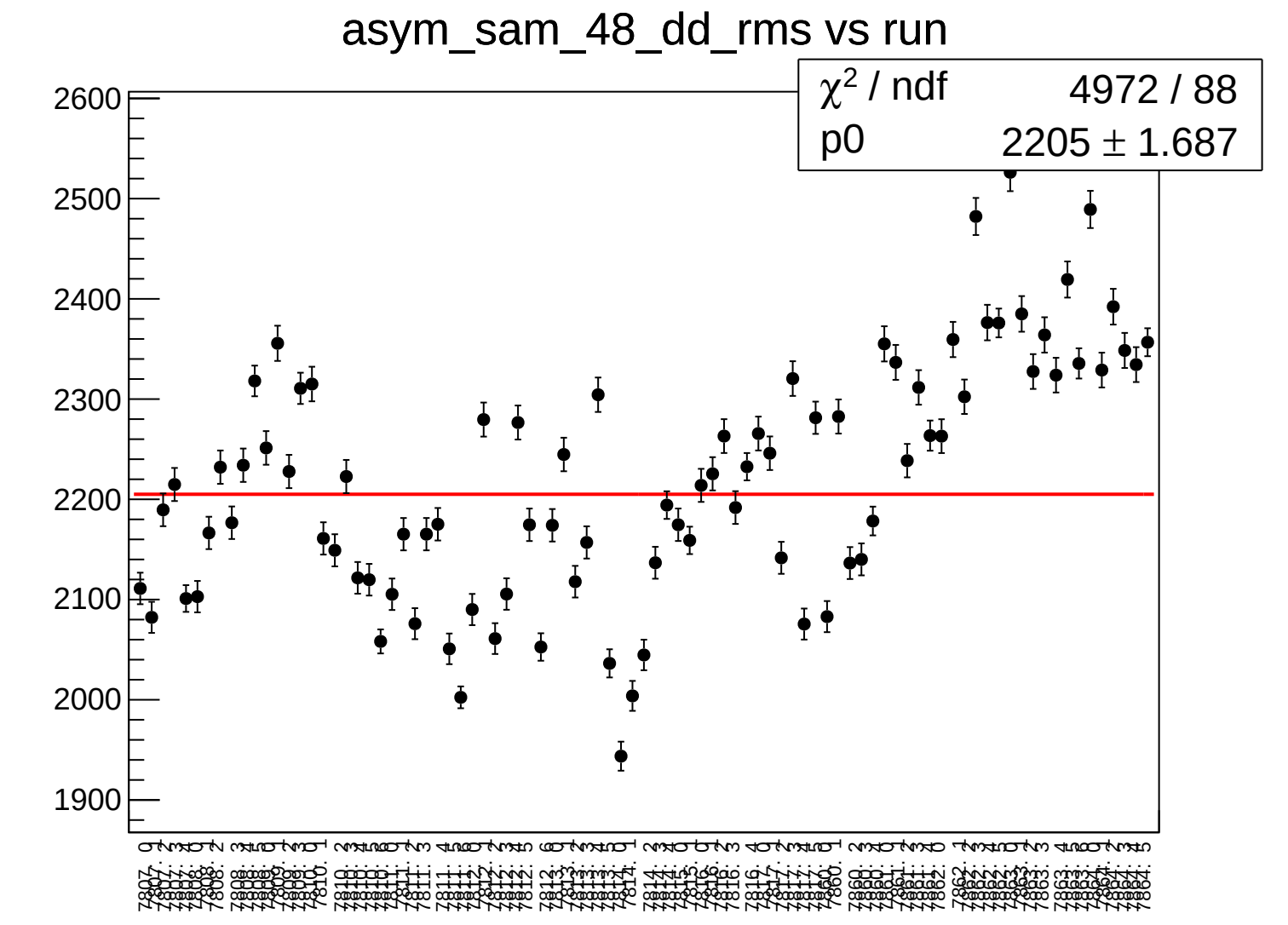

asym_sam_48_dd_correction_mean vs run
χ² / ndf 97.46 / 88
p0 −1362 ± 2378
×10³
pull
Entries 89
Mean 75.76
Std Dev 34.41

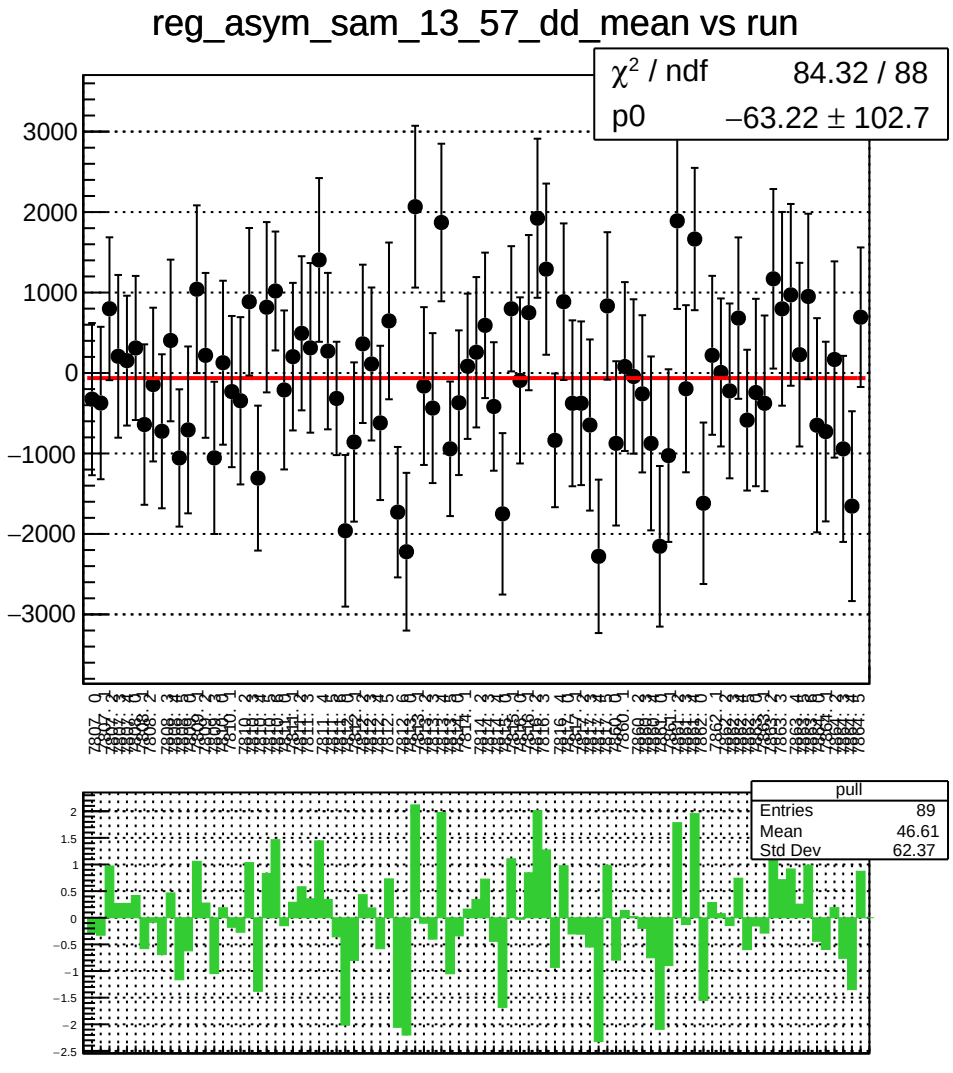

pull1D
Entries 89
Mean −0.02154
Std Dev 1.046

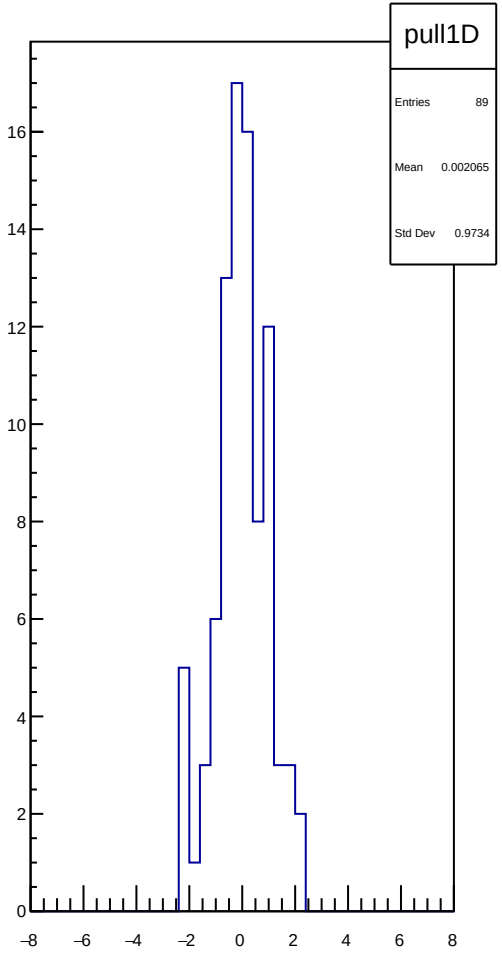

asym_sam_48_dd_correction_rms vs run
χ² / ndf 4998 / 88
p0 2198 ± 1.681
2500
2400
2300
2200
2100
2000
1900

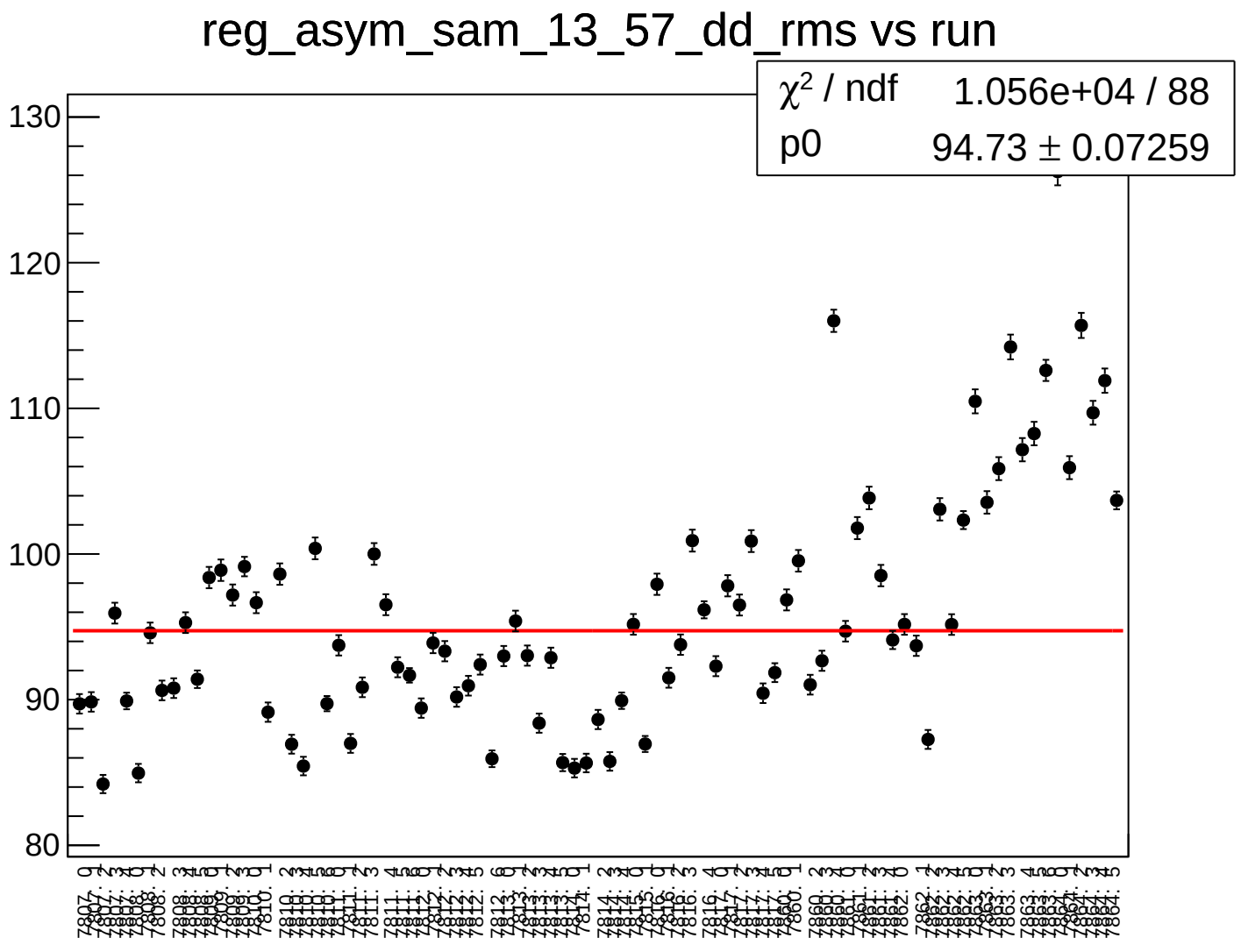

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 95.58 / 88
p0 1422 ± 2386
pull
Entries 89
Mean 66.18
Std Dev 42.42

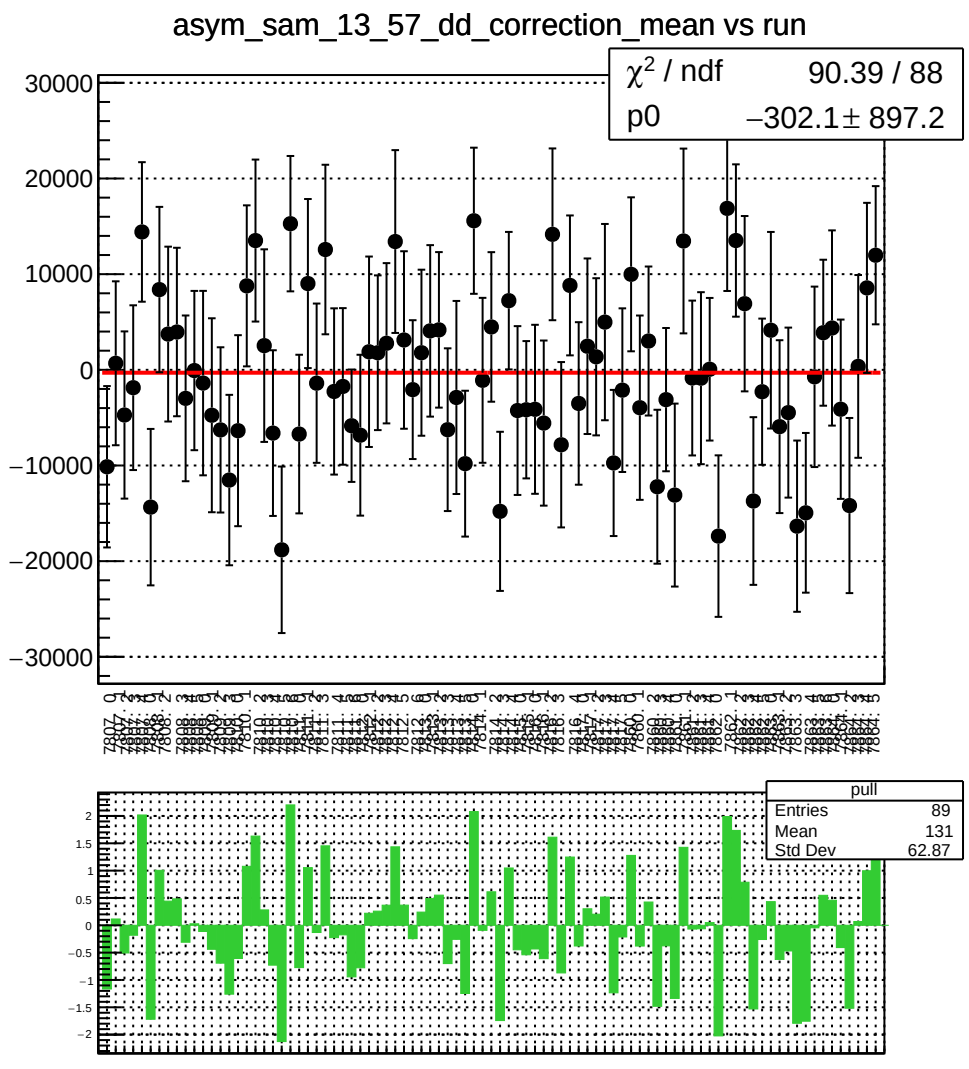

pull1D
Entries 89
Mean 0.02125
Std Dev 1.036

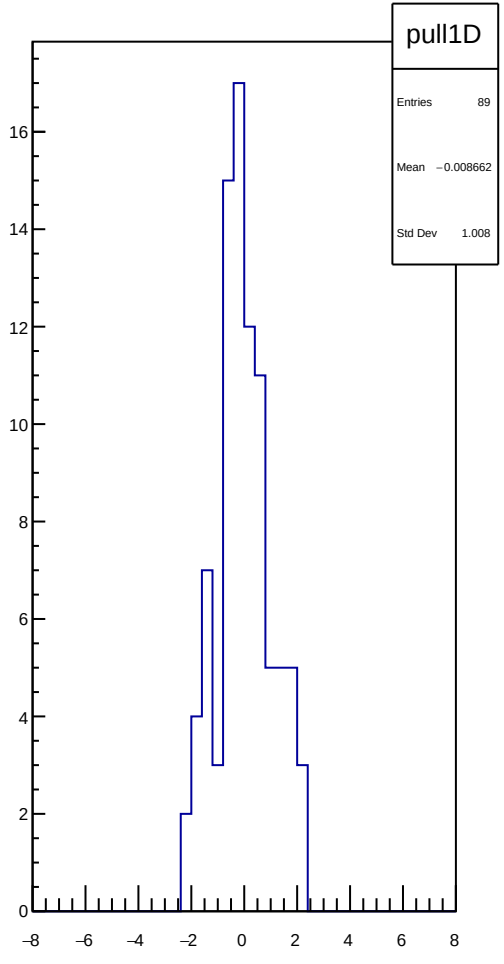

asym_sam_48_dd_rms vs run
χ² / ndf 4972 / 88
p0 2205 ± 1.687
2600
2500
2400
2300
2200
2100
2000
1900

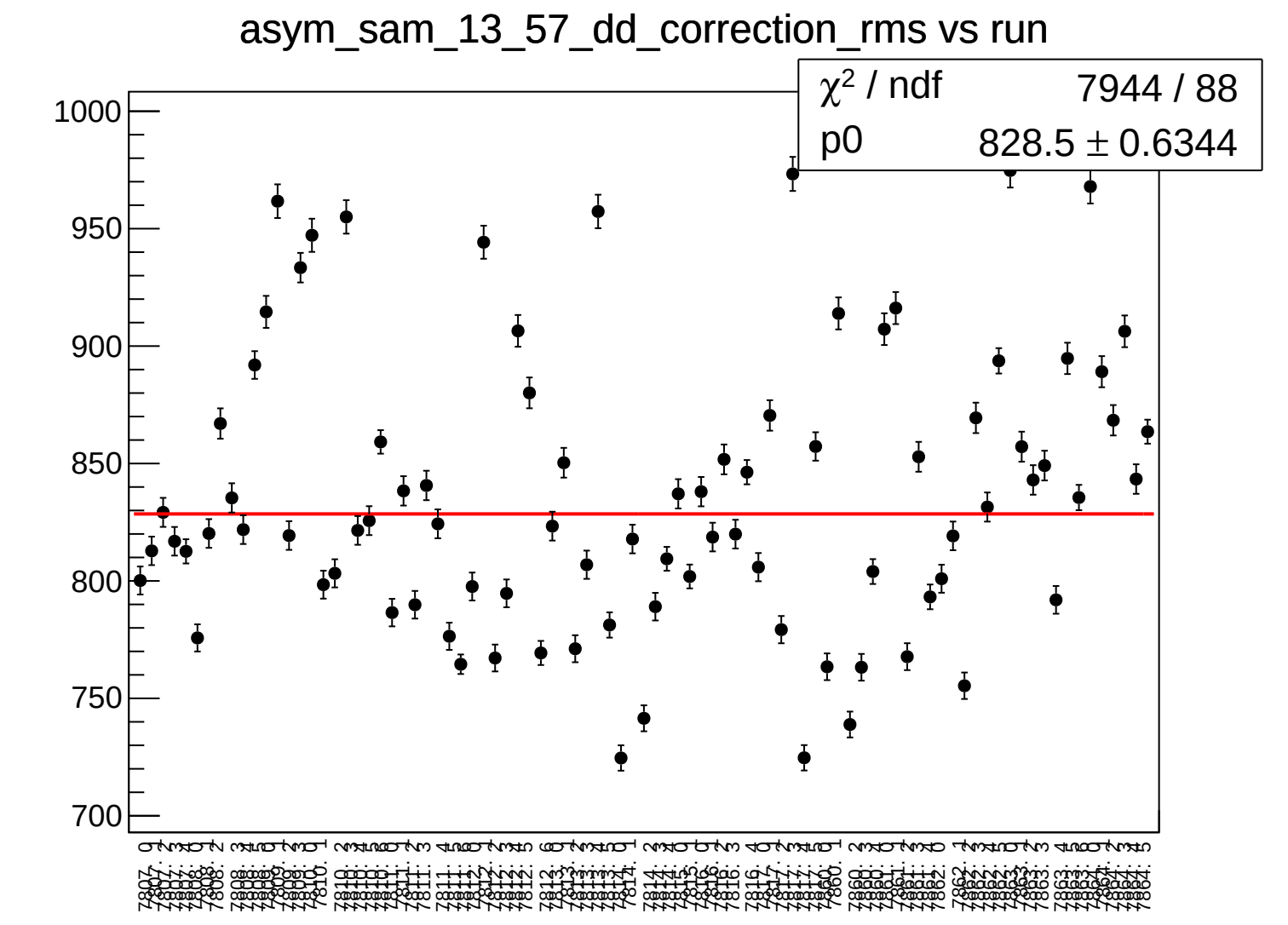

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 84.32 / 88
p0 −63.22 ± 102.7
pull
Entries 89
Mean 46.61
Std Dev 62.37

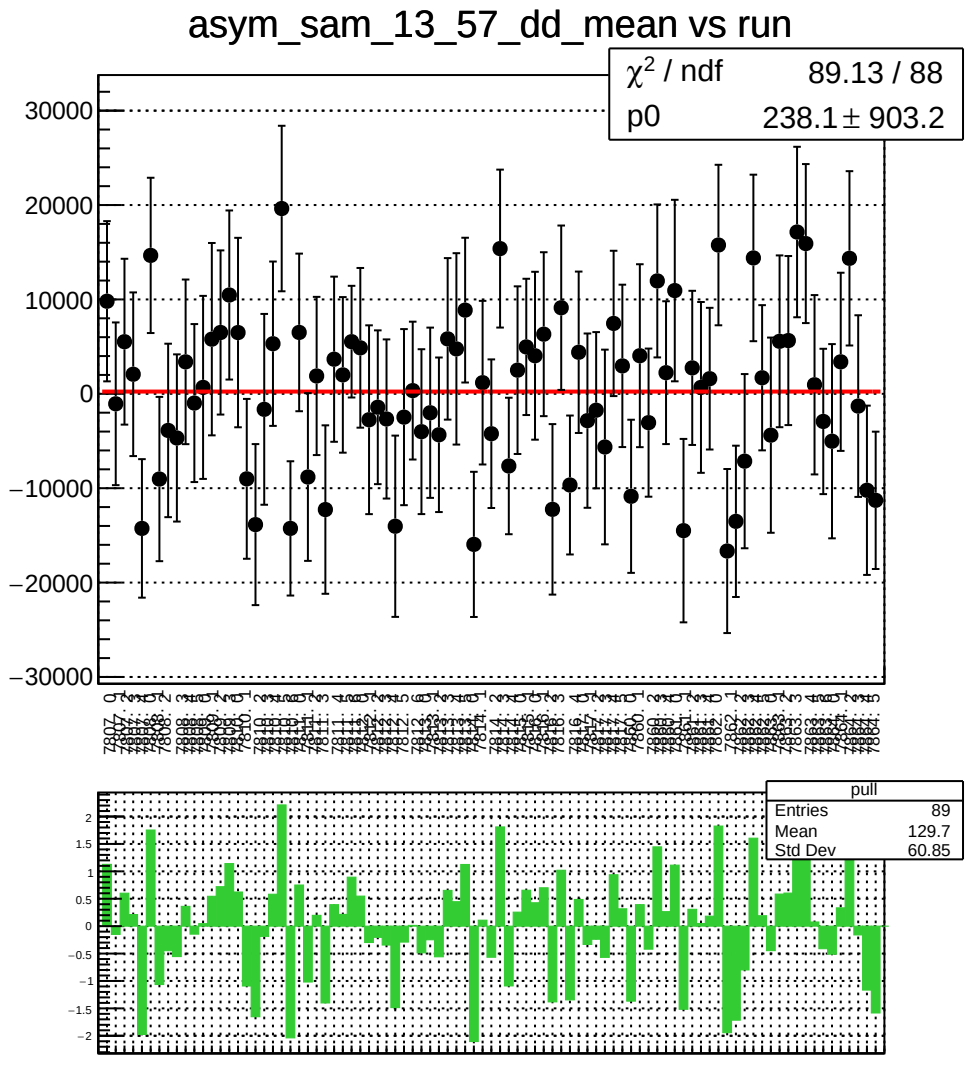

pull1D
Entries 89
Mean 0.002065
Std Dev 0.9734

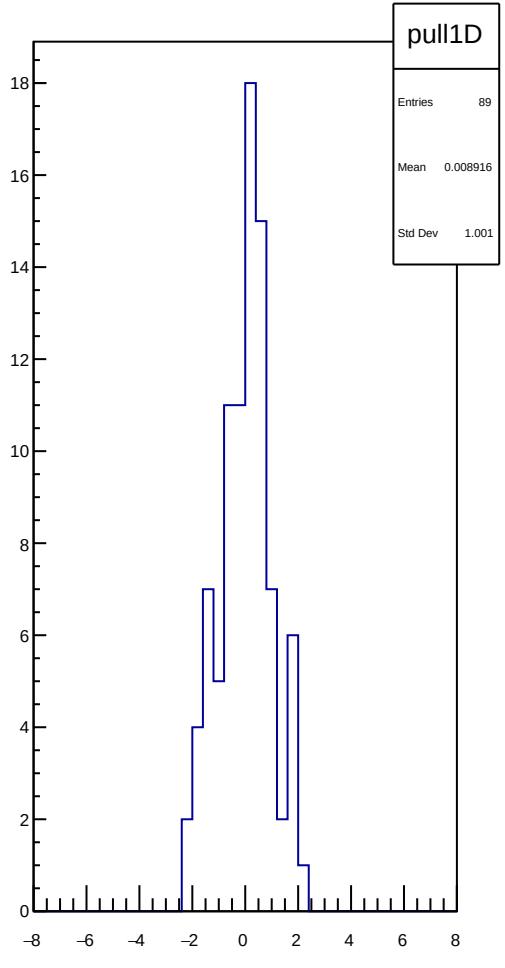

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.056e+04 / 88
p0 94.73 ± 0.07259
130
120
110
100
90
80

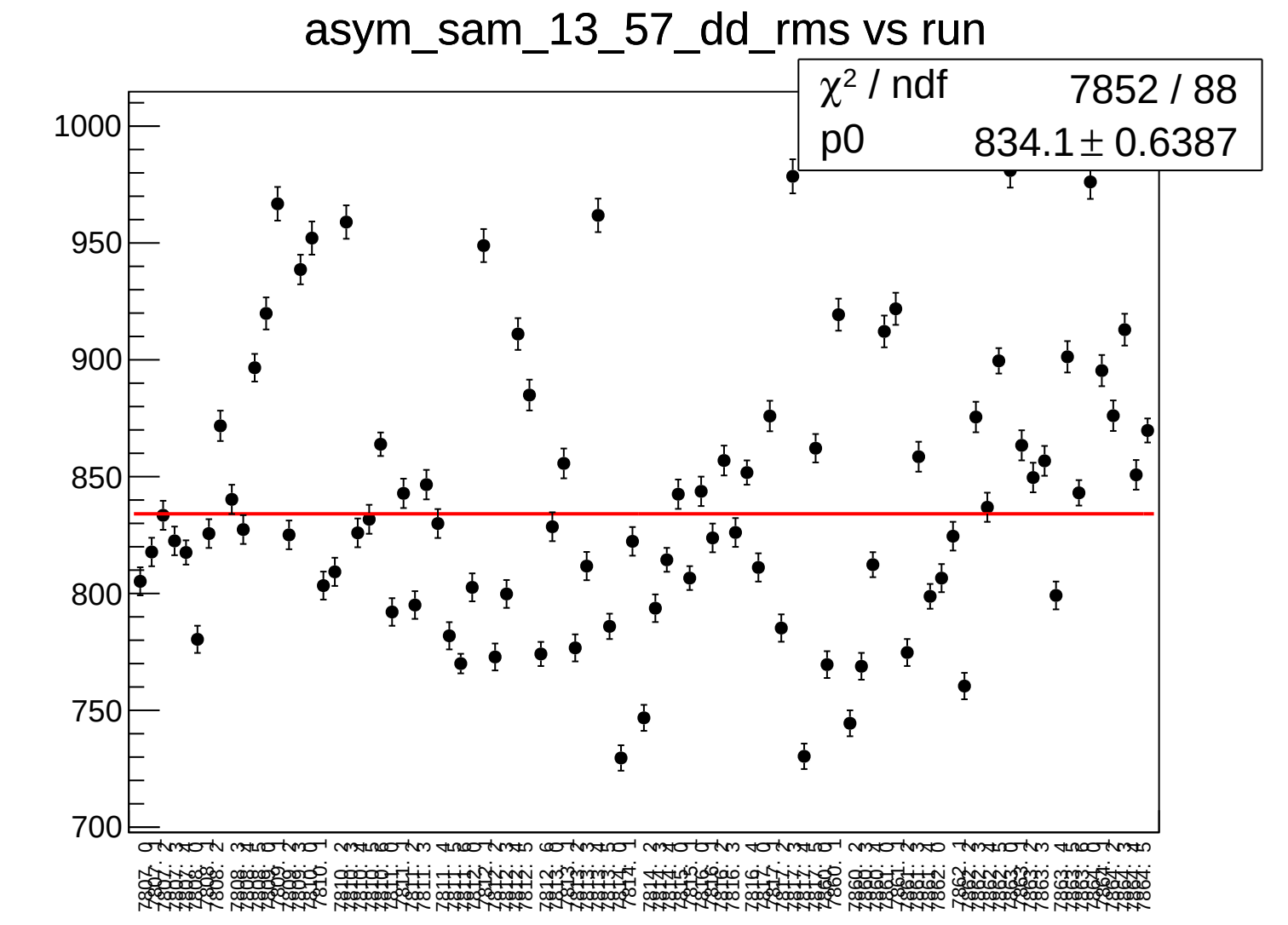

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 90.39 / 88
p0 −302.1± 897.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 131
Std Dev 62.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

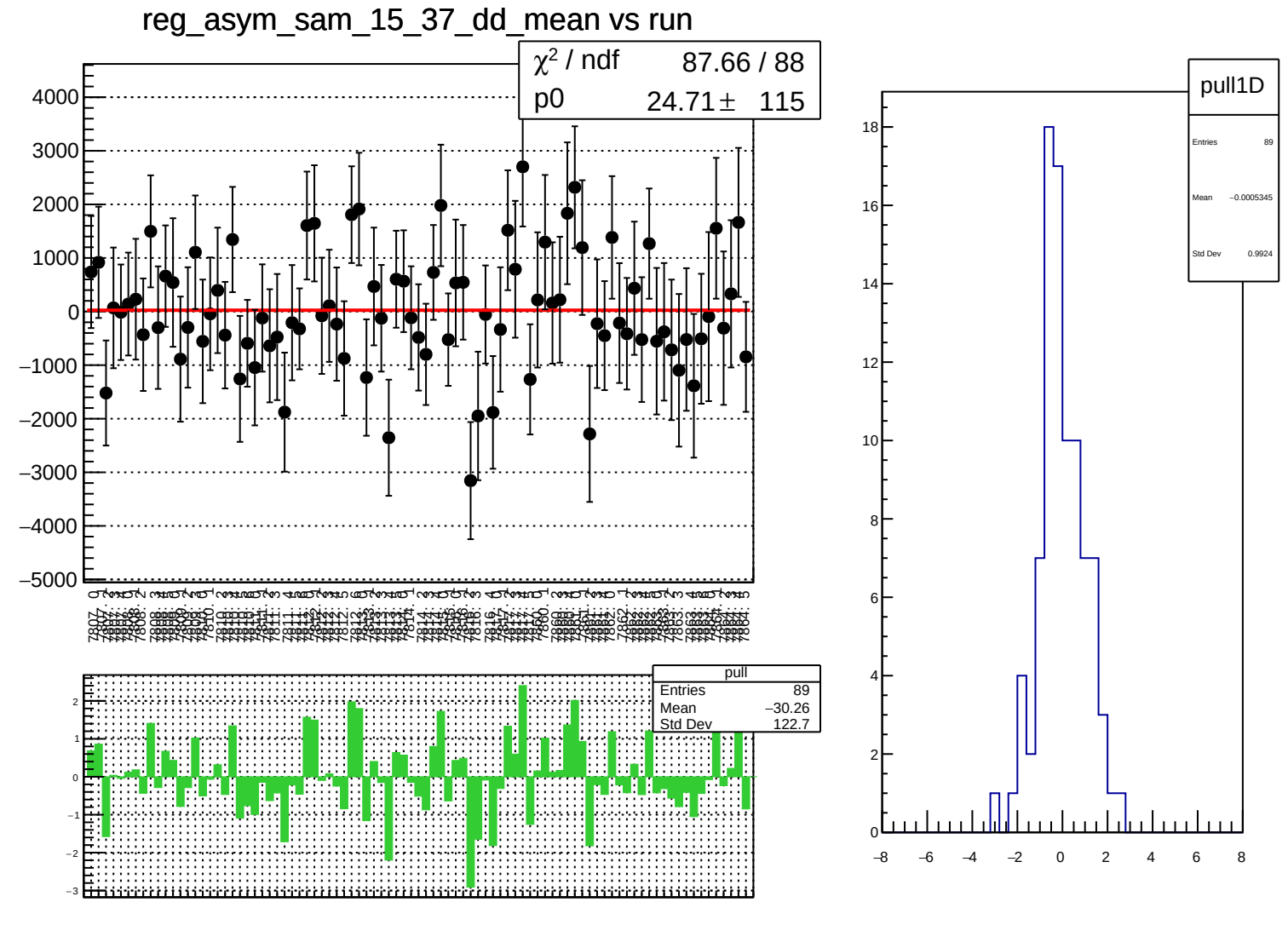

pull1D
Entries 89
Mean −0.008662
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

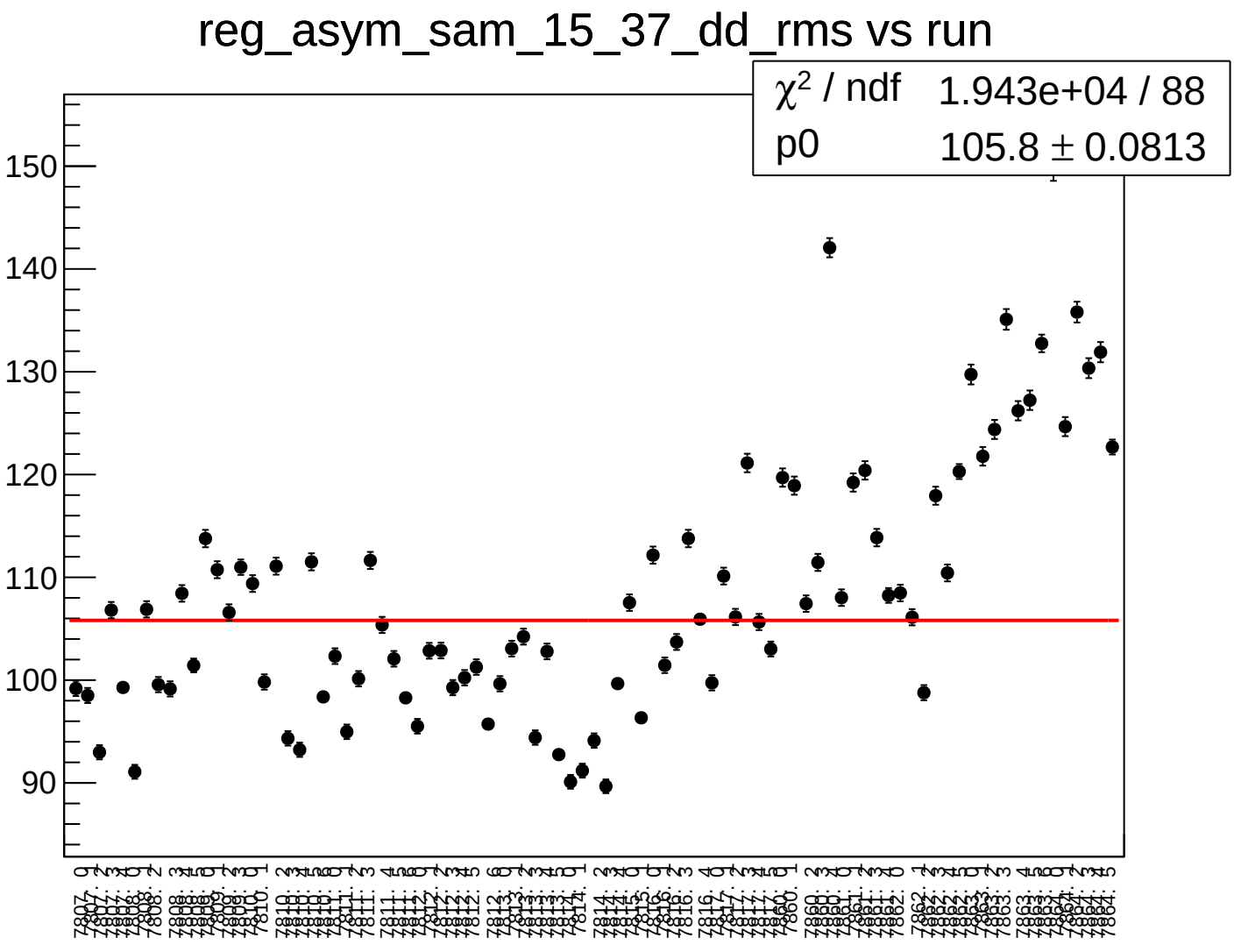

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 7944 / 88
p0 828.5 ± 0.6344
1000
950
900
850
800
750
700

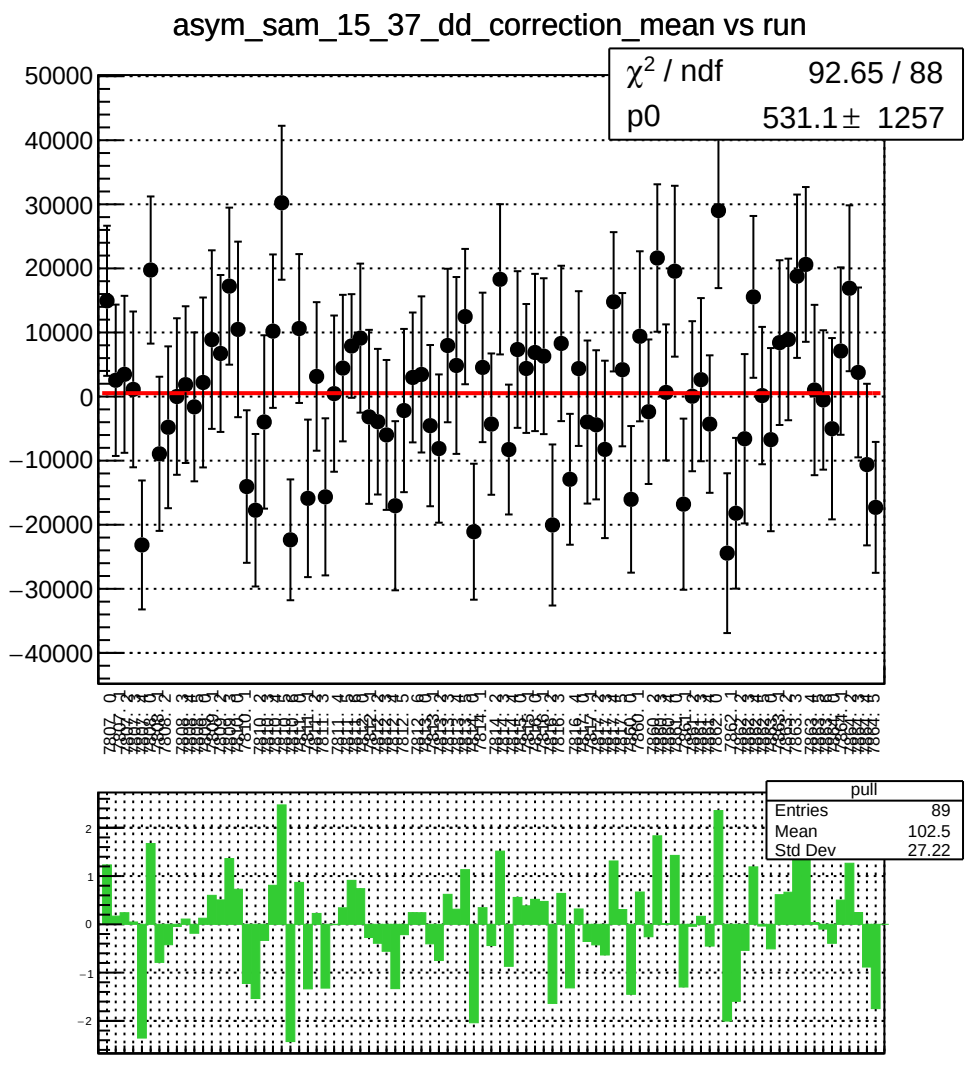

asym_sam_13_57_dd_mean vs run
χ^2 / ndf 89.13 / 88
p0 238.1 ± 903.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 129.7
Std Dev 60.85
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

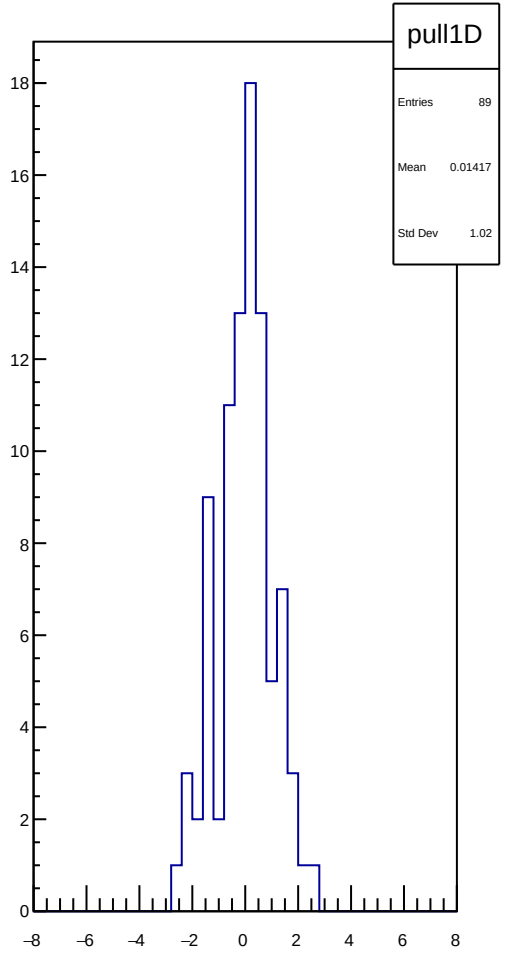

pull1D
Entries 89
Mean 0.008916
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

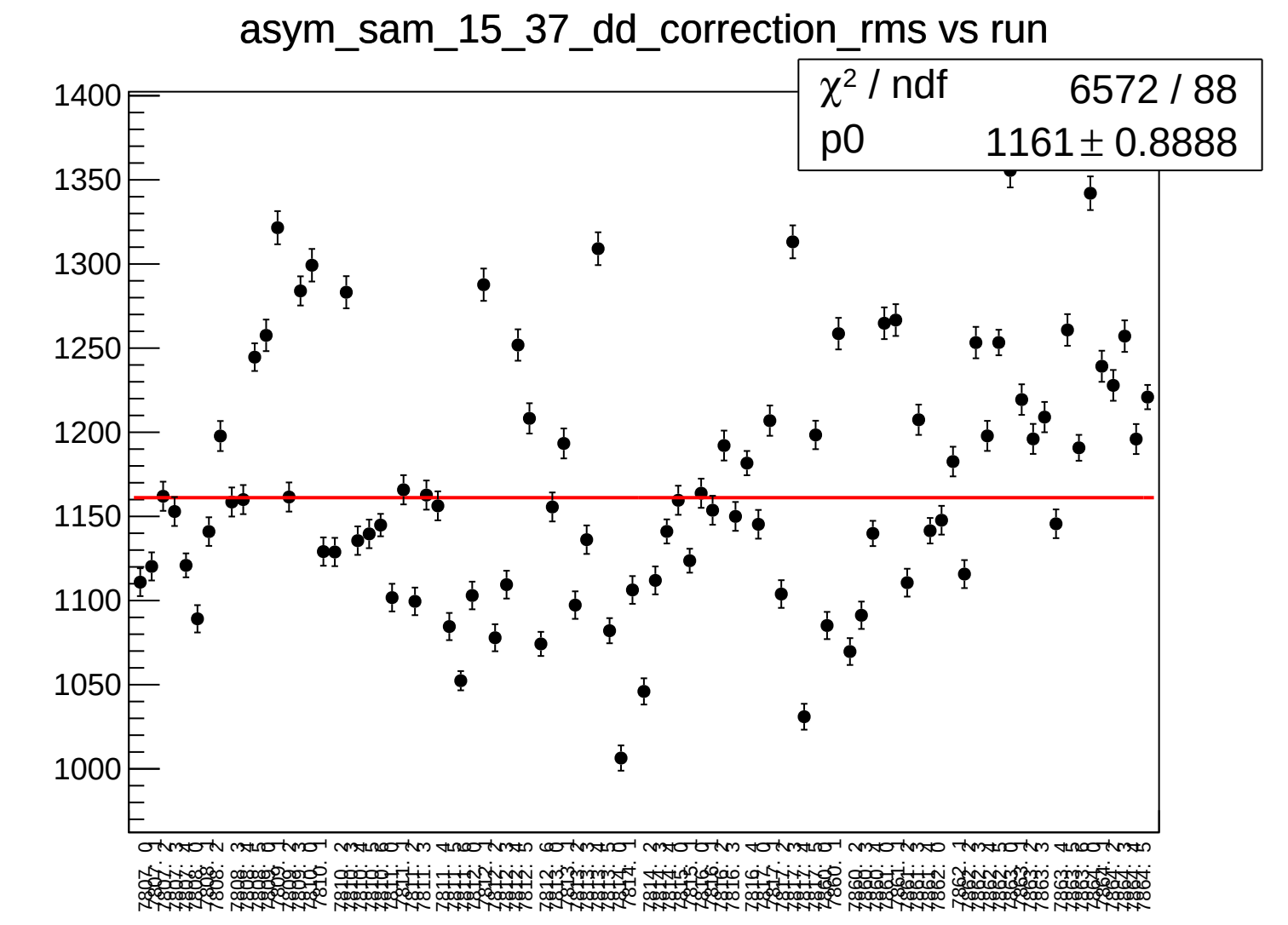

asym_sam_13_57_dd_rms vs run
χ² / ndf 7852 / 88
p0 834.1 ± 0.6387
1000
950
900
850
800
750
700

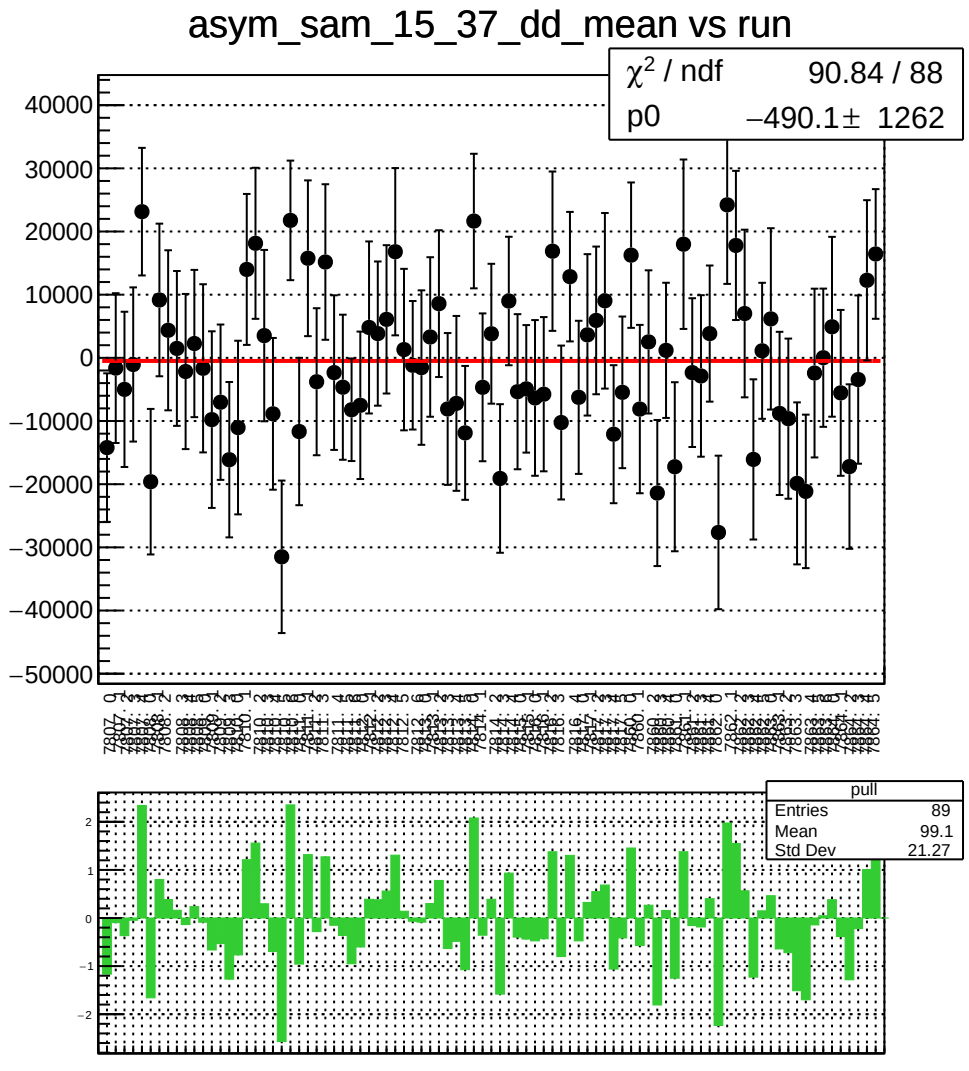

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 87.66 / 88
p0 24.71 ± 115
pull
Entries 89
Mean −30.26
Std Dev 122.7
pull1D
Entries 89
Mean −0.0005345
Std Dev 0.9924

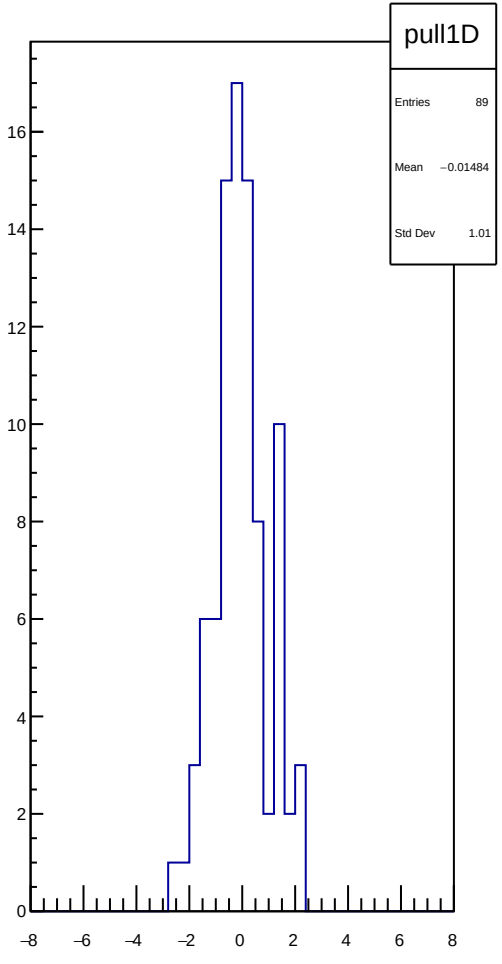

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.943e+04 / 88
p0 105.8 ± 0.0813
150
140
130
120
110
100
90

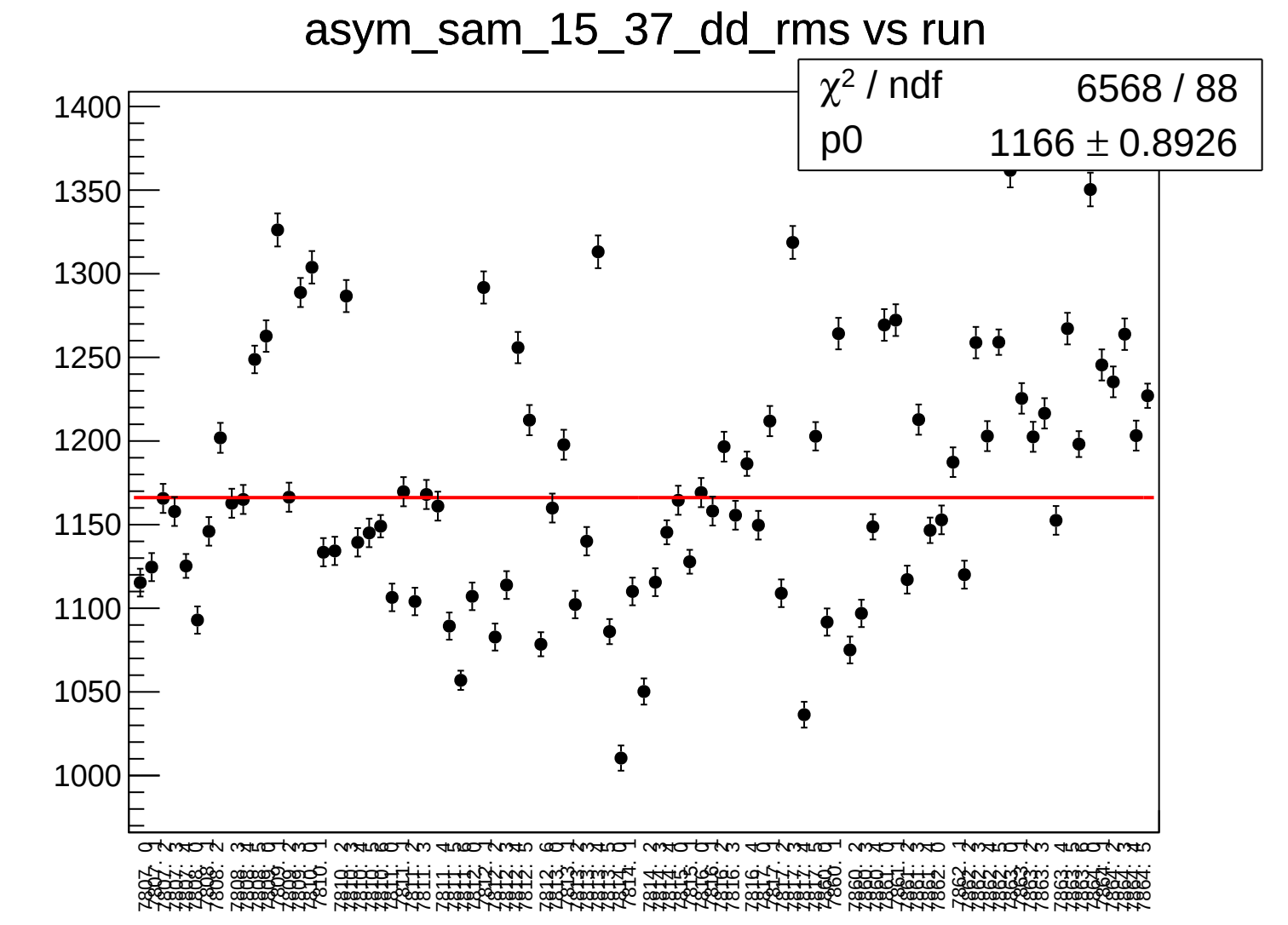

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 92.65 / 88
p0 531.1 ± 1257
pull
Entries 89
Mean 102.5
Std Dev 27.22

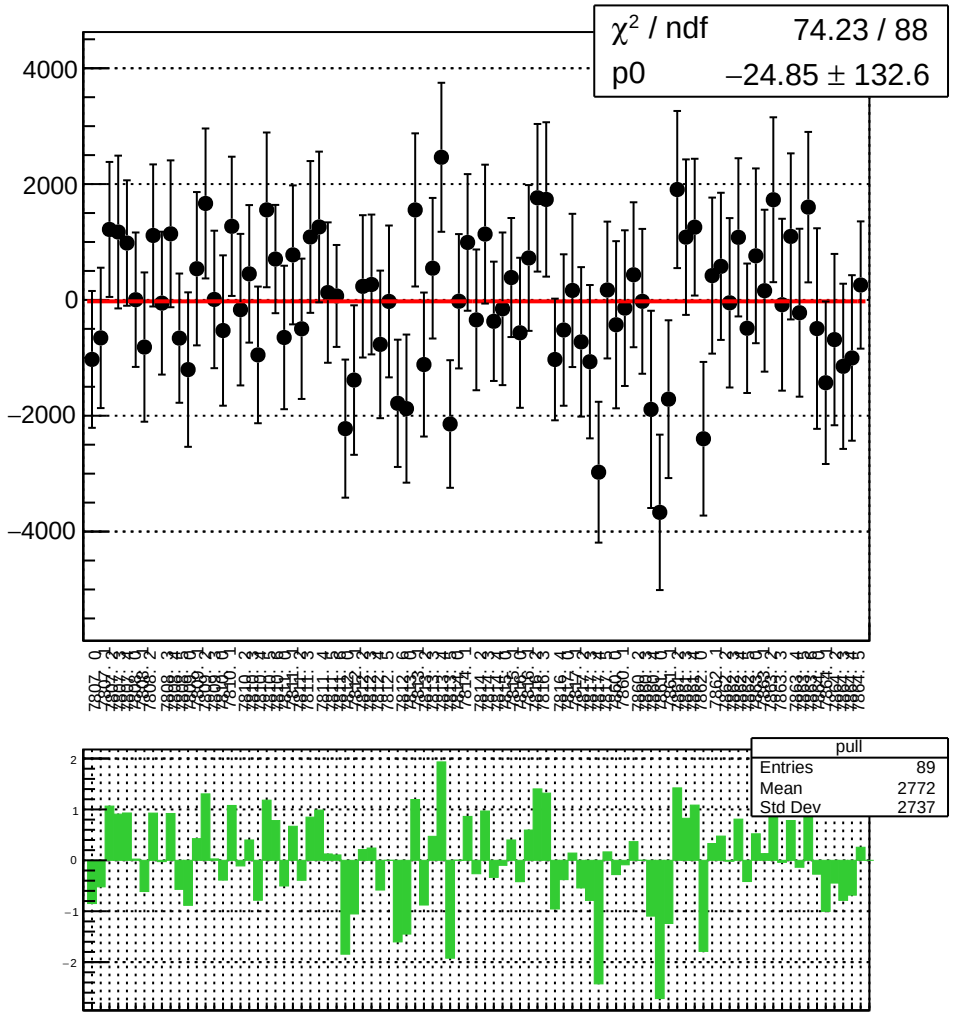

pull1D
Entries 89
Mean 0.01417
Std Dev 1.02

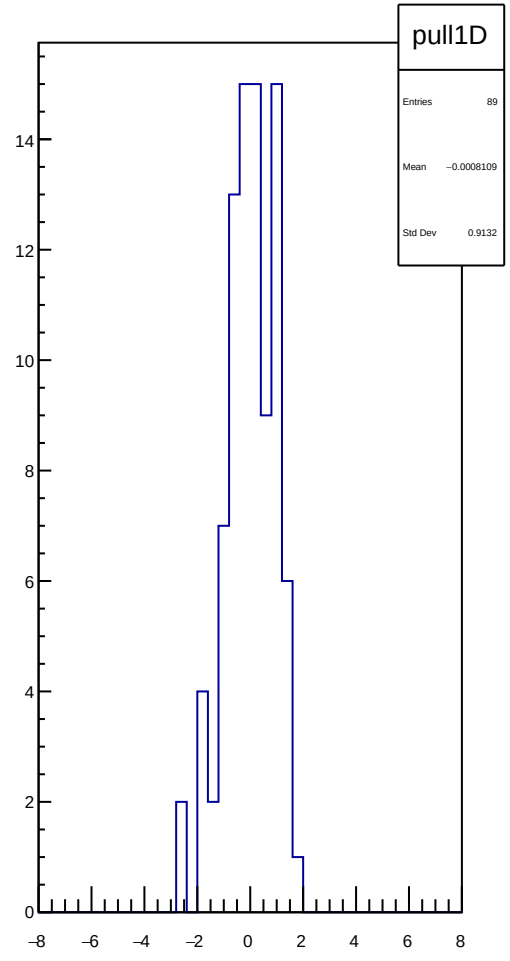

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 6572 / 88
p0 1161 ± 0.8888
1400
1350
1300
1250
1200
1150
1100
1050
1000

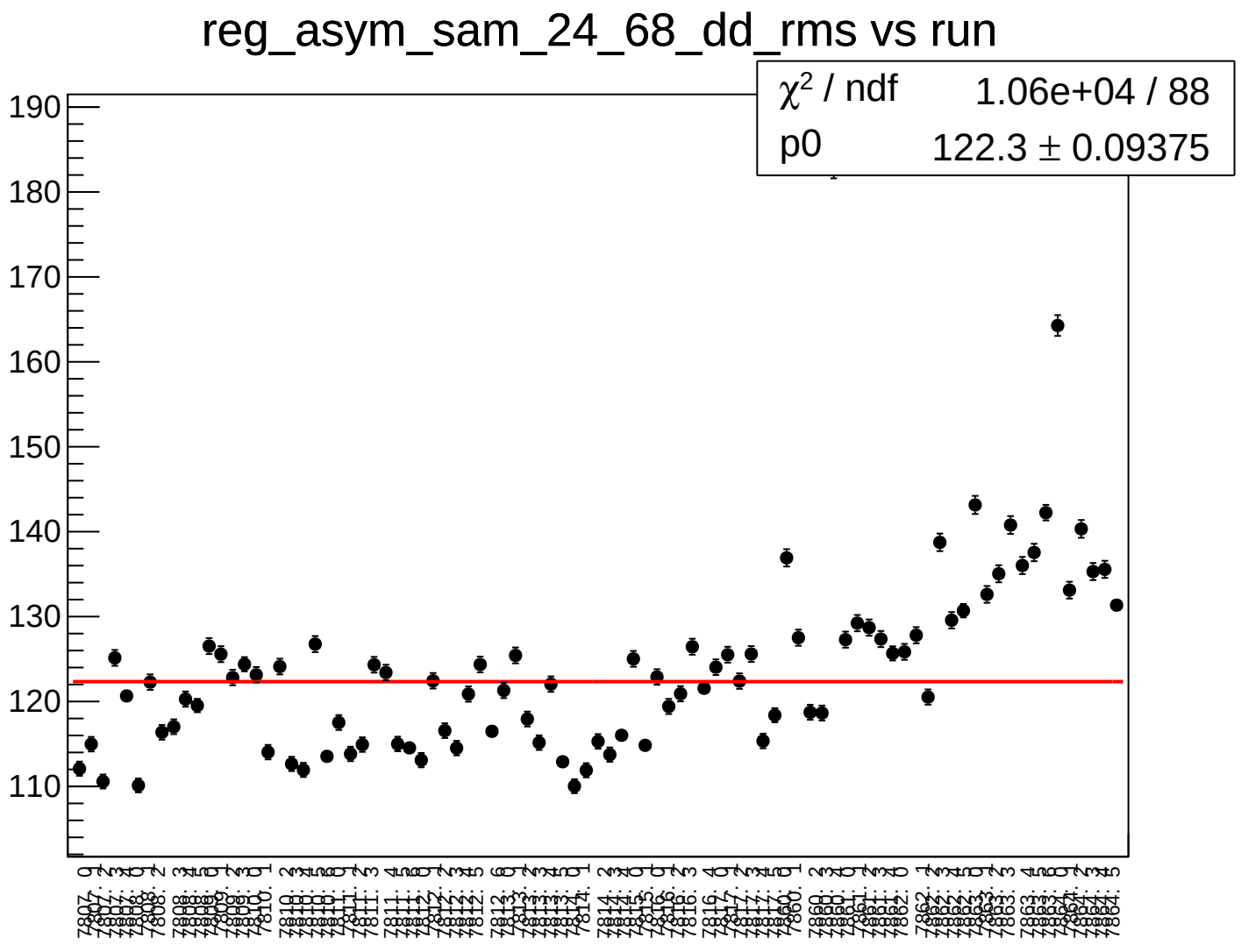

asym_sam_15_37_dd_mean vs run
χ² / ndf 90.84 / 88
p0 −490.1± 1262
pull
Entries 89
Mean 99.1
Std Dev 21.27

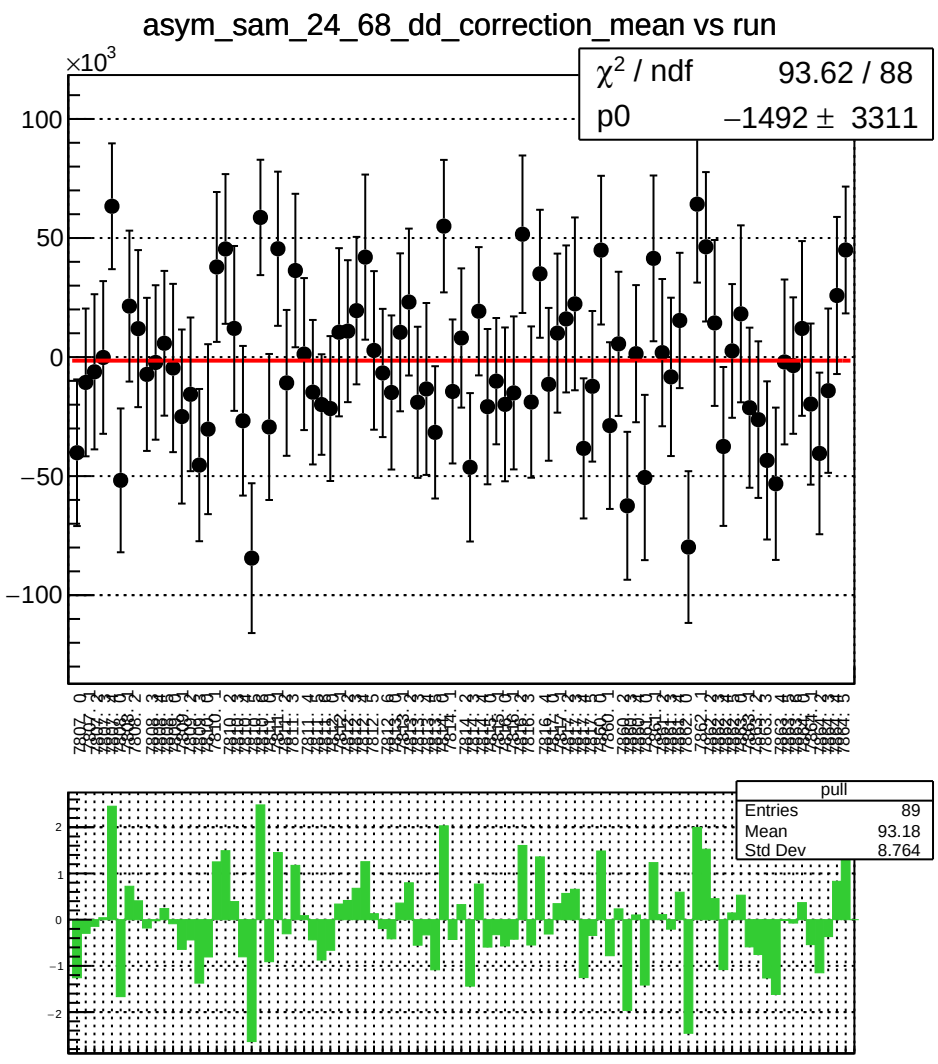

pull1D
Entries 89
Mean −0.01484
Std Dev 1.01

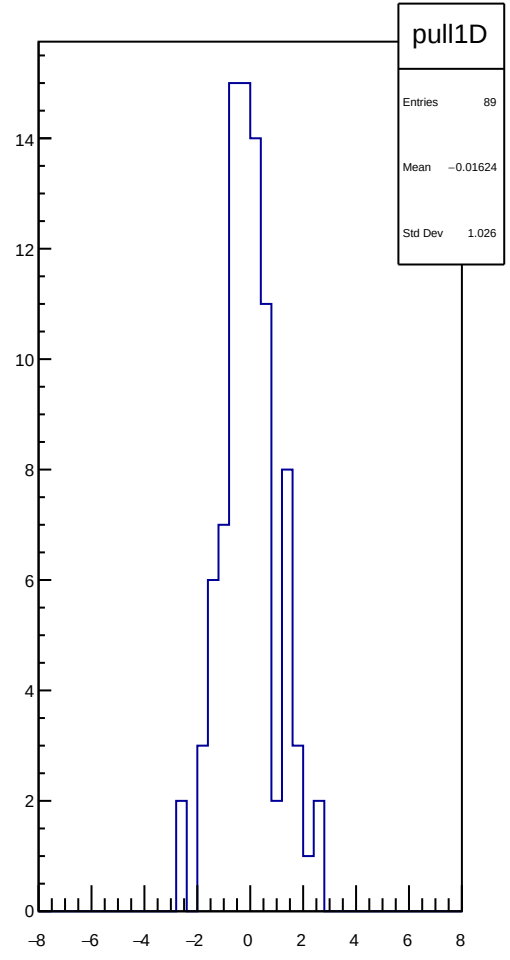

asym_sam_15_37_dd_rms vs run
χ² / ndf 6568 / 88
p0 1166 ± 0.8926
1400
1350
1300
1250
1200
1150
1100
1050
1000

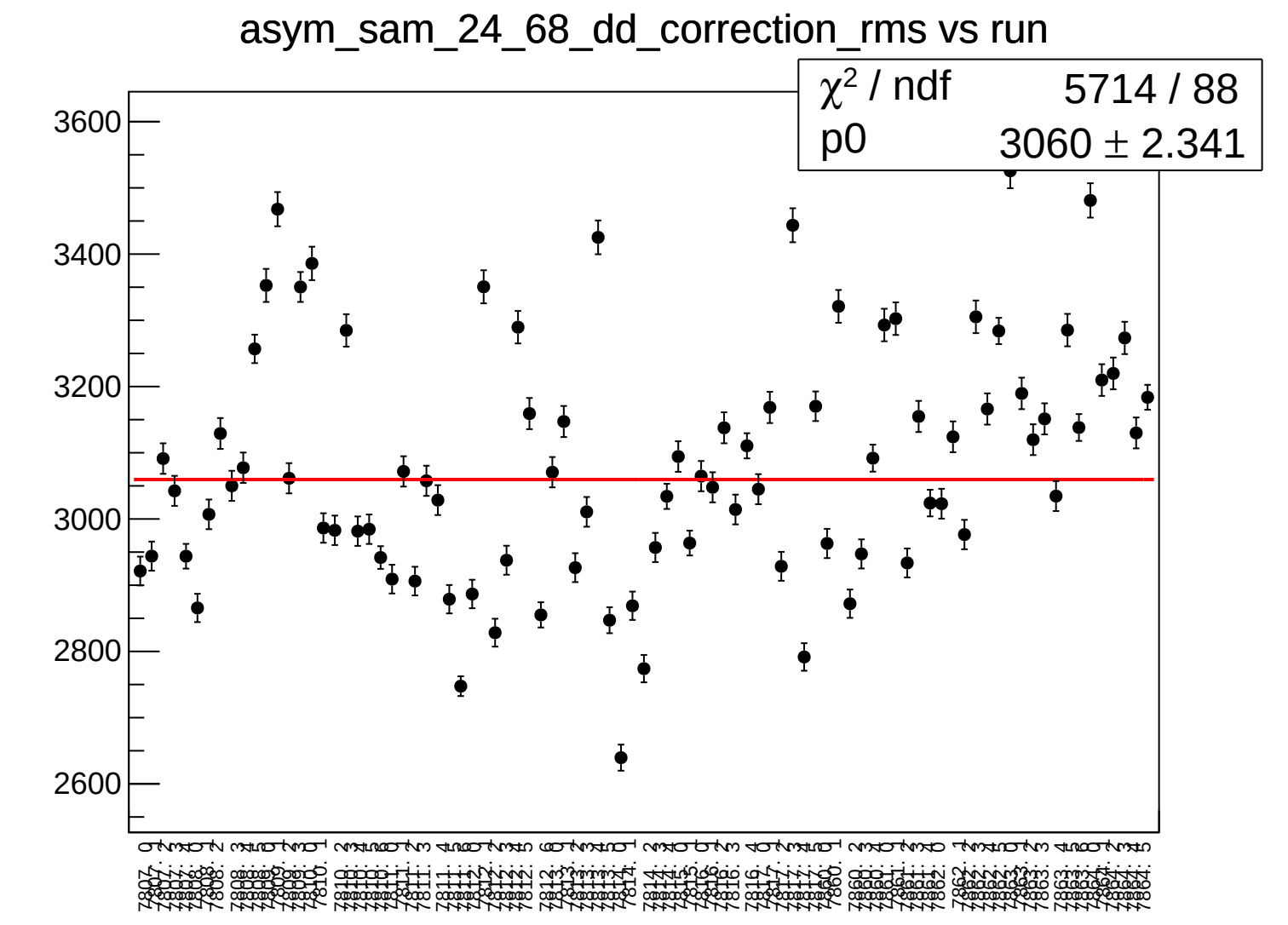

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 74.23 / 88
p0 −24.85 ± 132.6
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 2772
Std Dev 2737
2
1
0
−1
−2

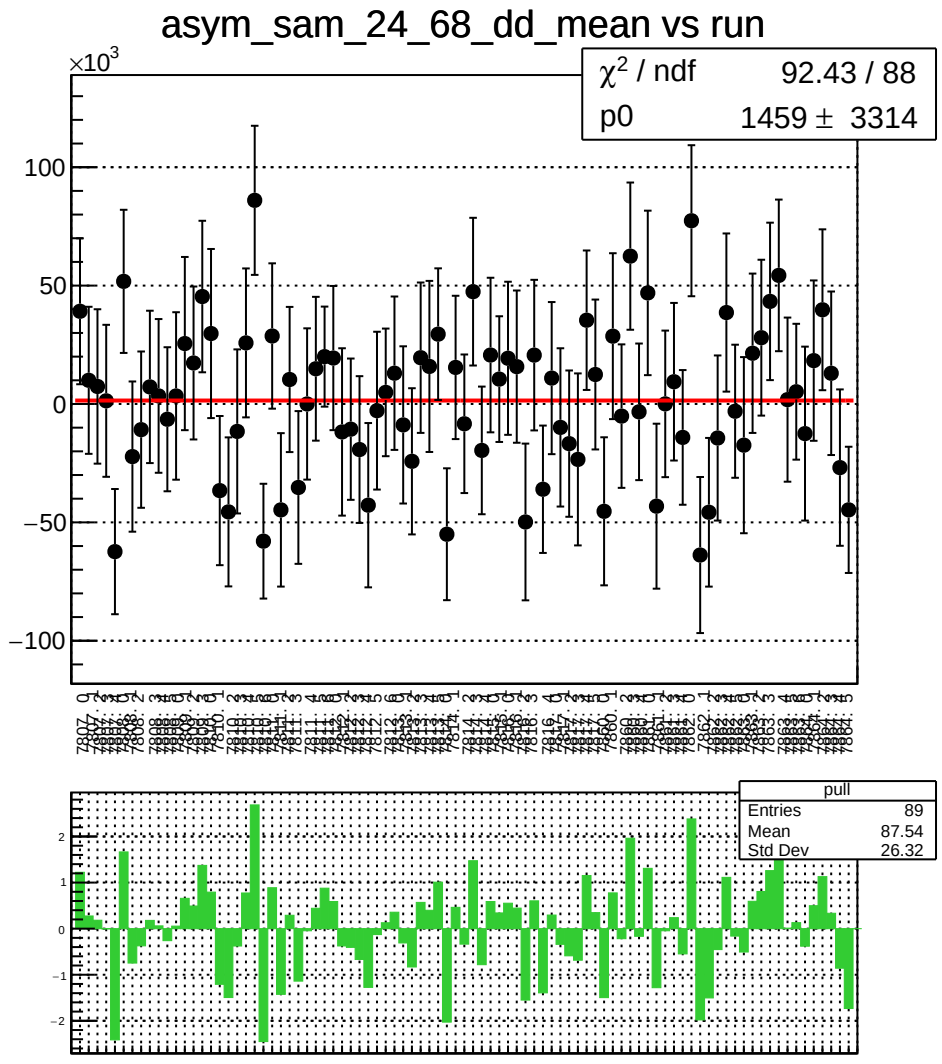

pull1D
Entries 89
Mean −0.0008109
Std Dev 0.9132
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

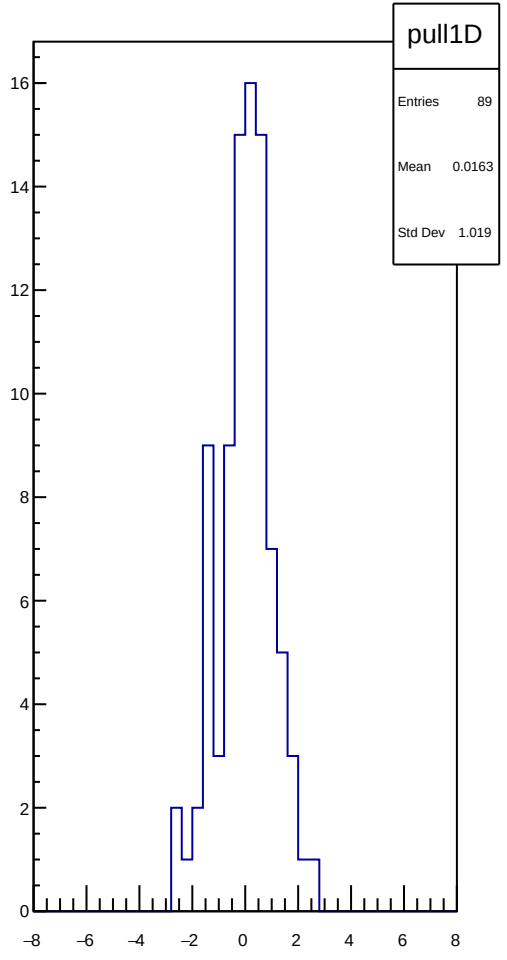

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.06e+04 / 88
p0 122.3 ± 0.09375
190
180
170
160
150
140
130
120
110

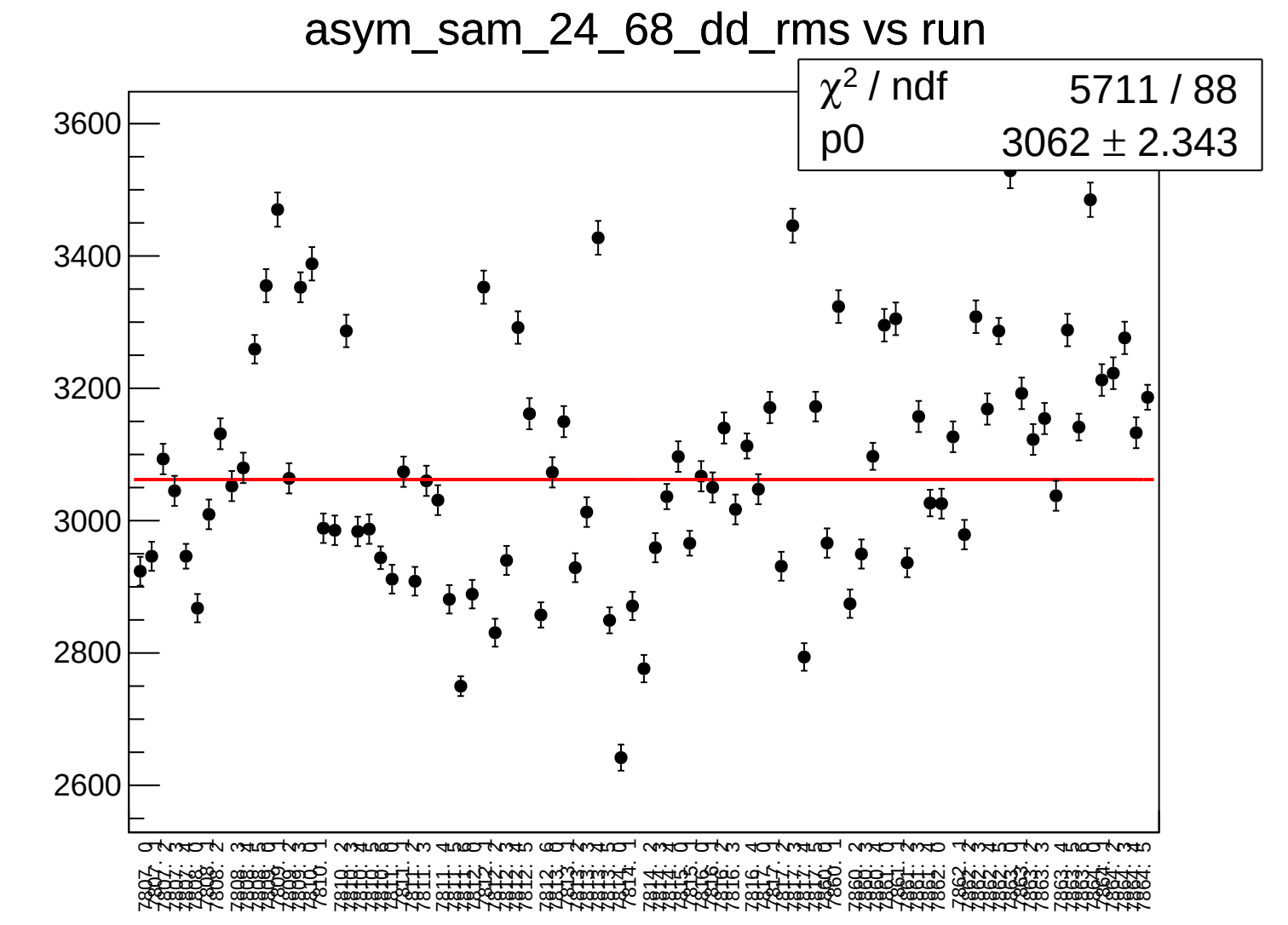

asym_sam_24_68_dd_correction_mean vs run
×10^3
χ² / ndf 93.62 / 88
p0 −1492 ± 3311
100
50
0
−50
−100
pull
Entries 89
Mean 93.18
Std Dev 8.764
2
1
0
−1
−2

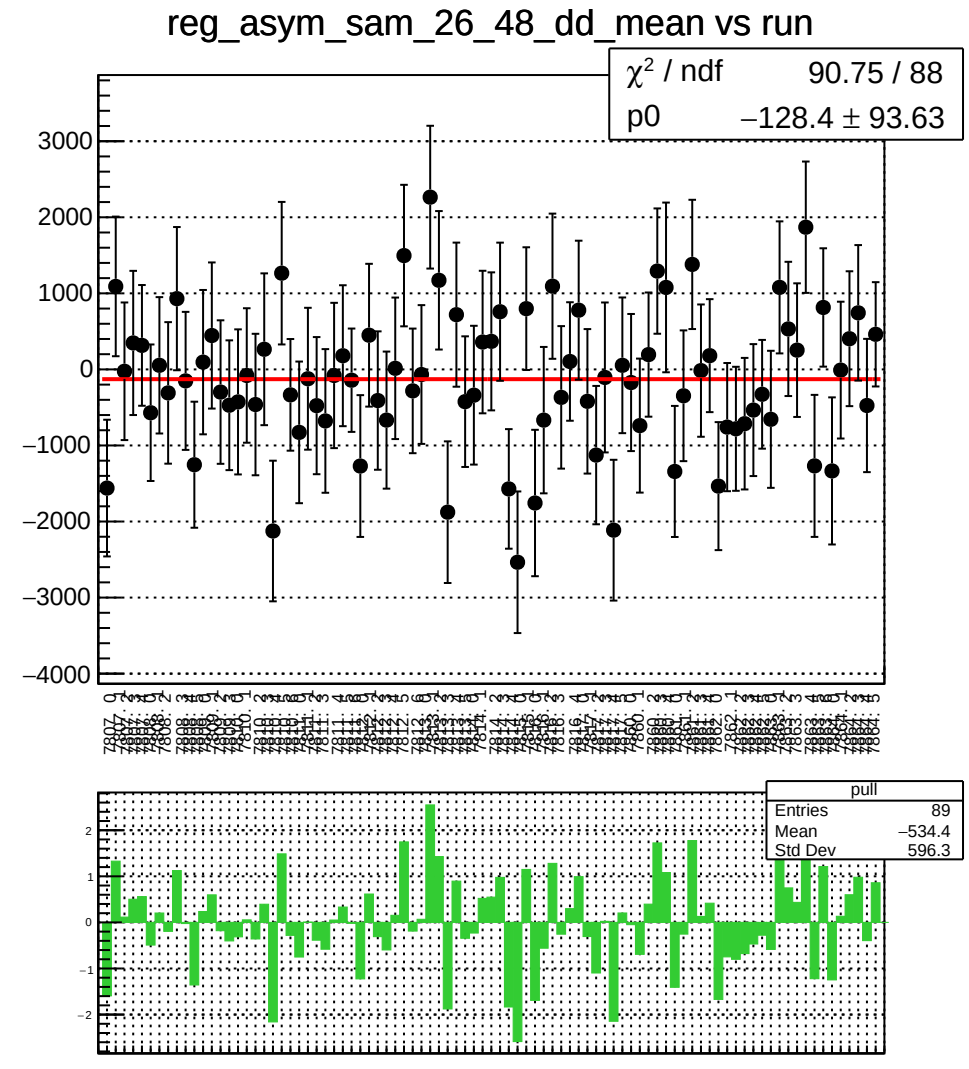

pull1D
Entries 89
Mean −0.01624
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

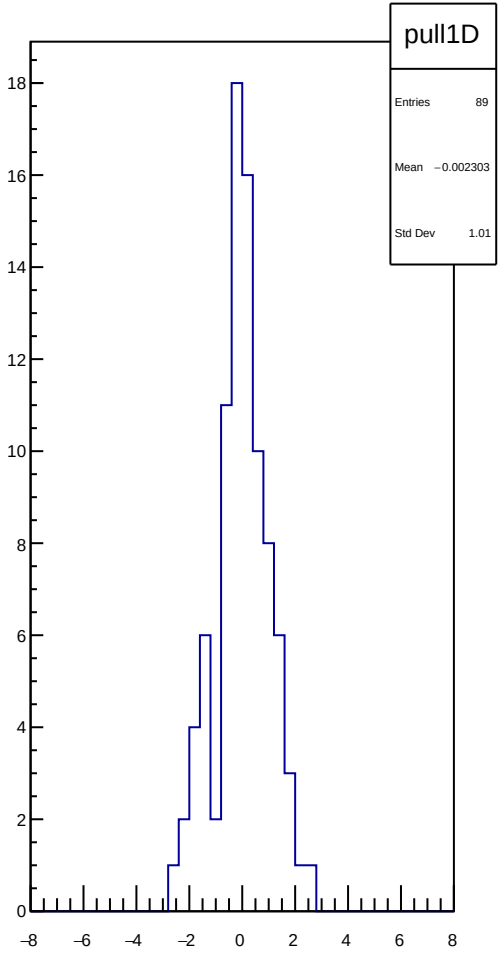

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 5714 / 88
p0 3060 ± 2.341
3600
3400
3200
3000
2800
2600

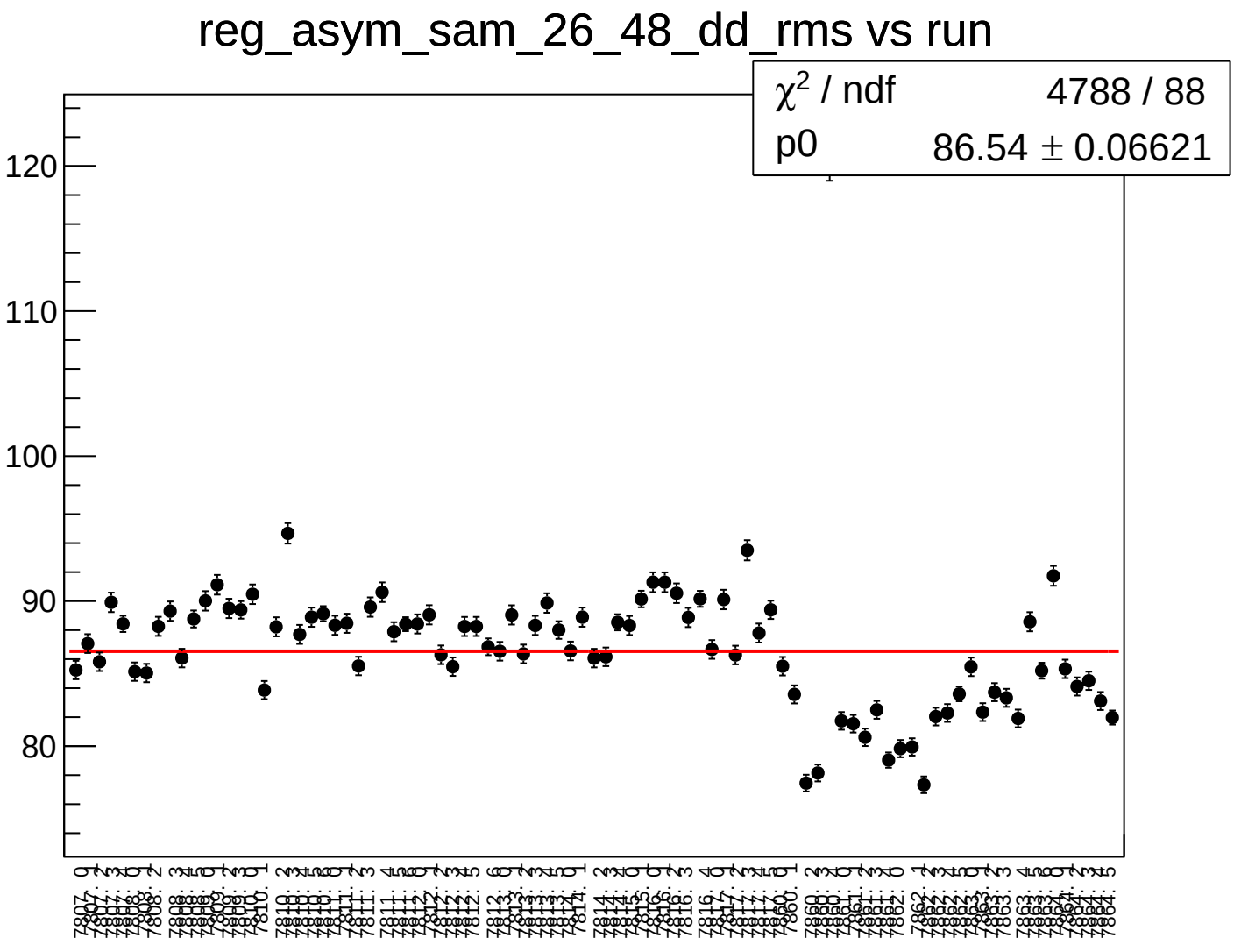

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 92.43 / 88
p0 1459 ± 3314
100
50
0
−50
−100
pull
Entries 89
Mean 87.54
Std Dev 26.32
2
1
0
−1
−2

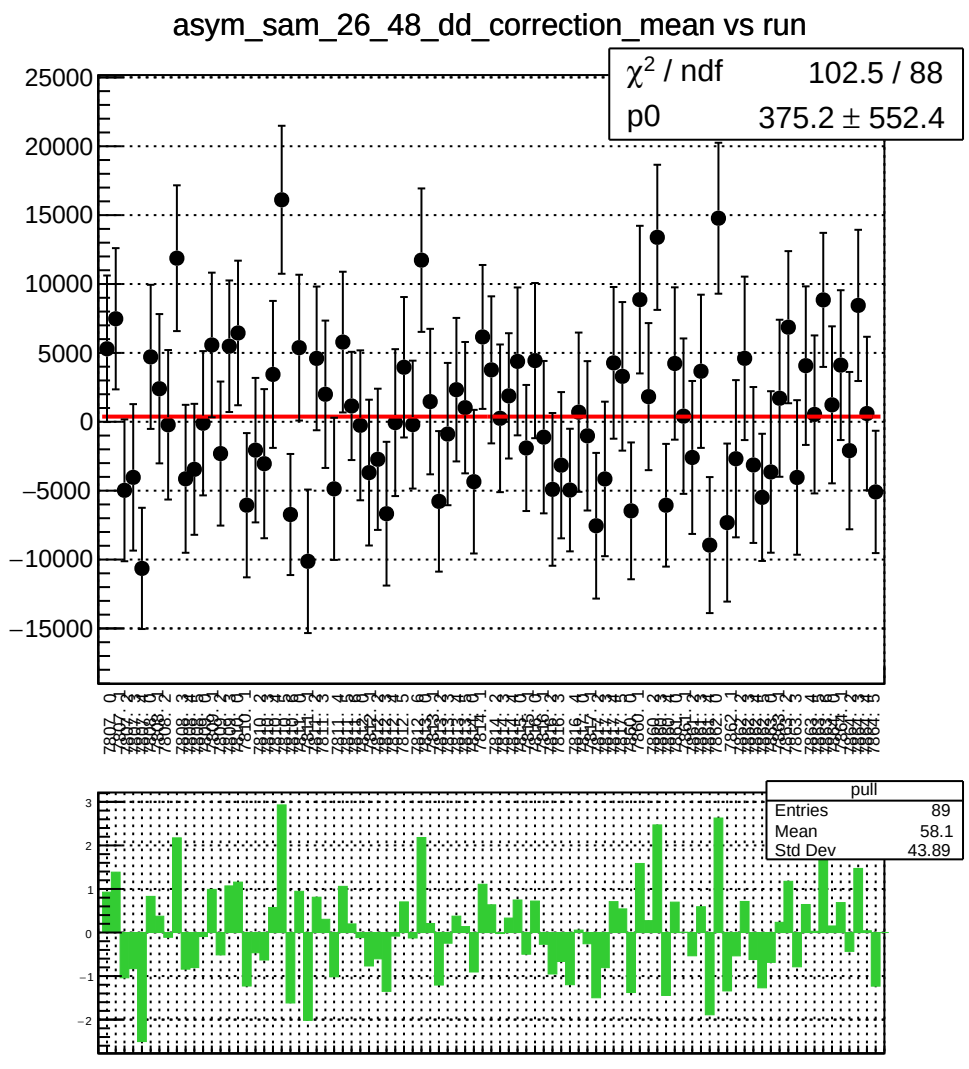

pull1D
Entries 89
Mean 0.0163
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

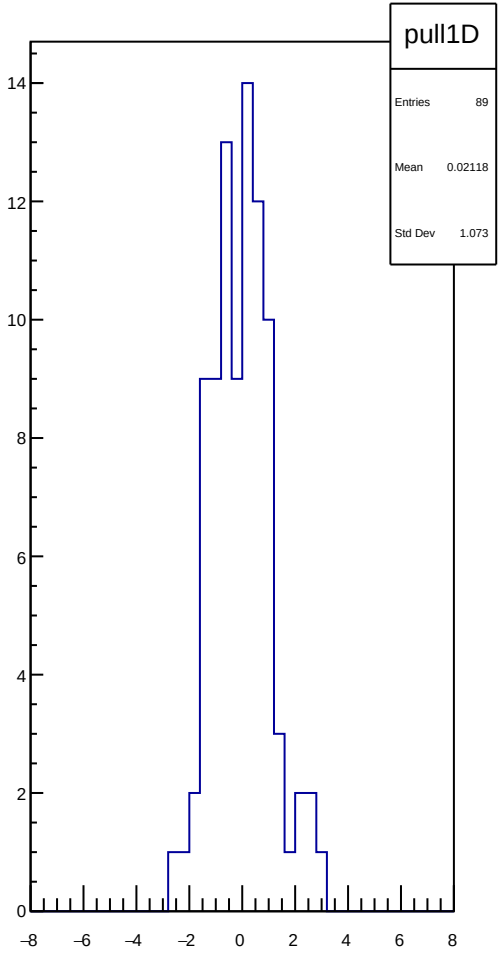

asym_sam_24_68_dd_rms vs run
χ² / ndf 5711 / 88
p0 3062 ± 2.343
3600
3400
3200
3000
2800
2600

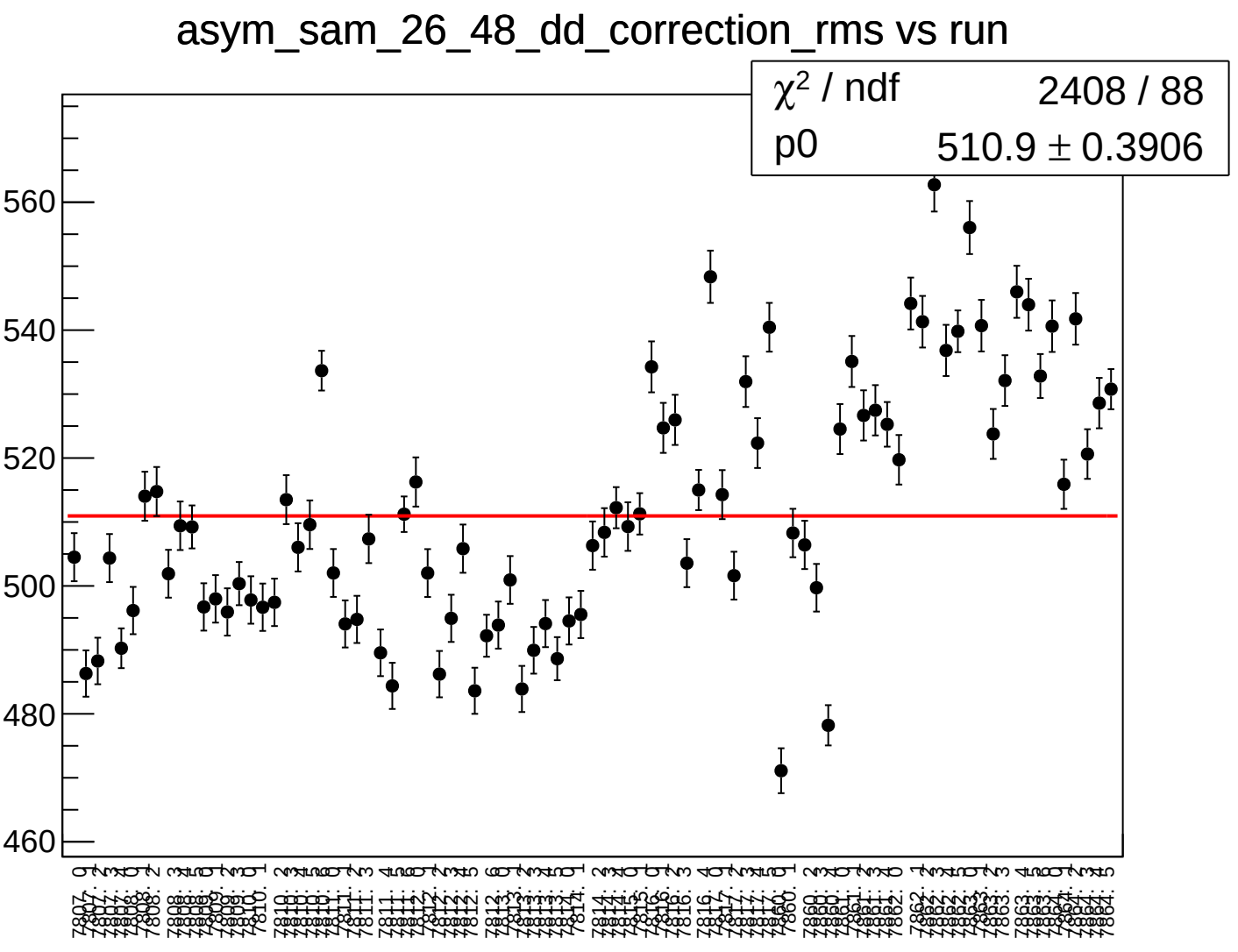

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 90.75 / 88
p0 −128.4 ± 93.63
pull
Entries 89
Mean −534.4
Std Dev 596.3

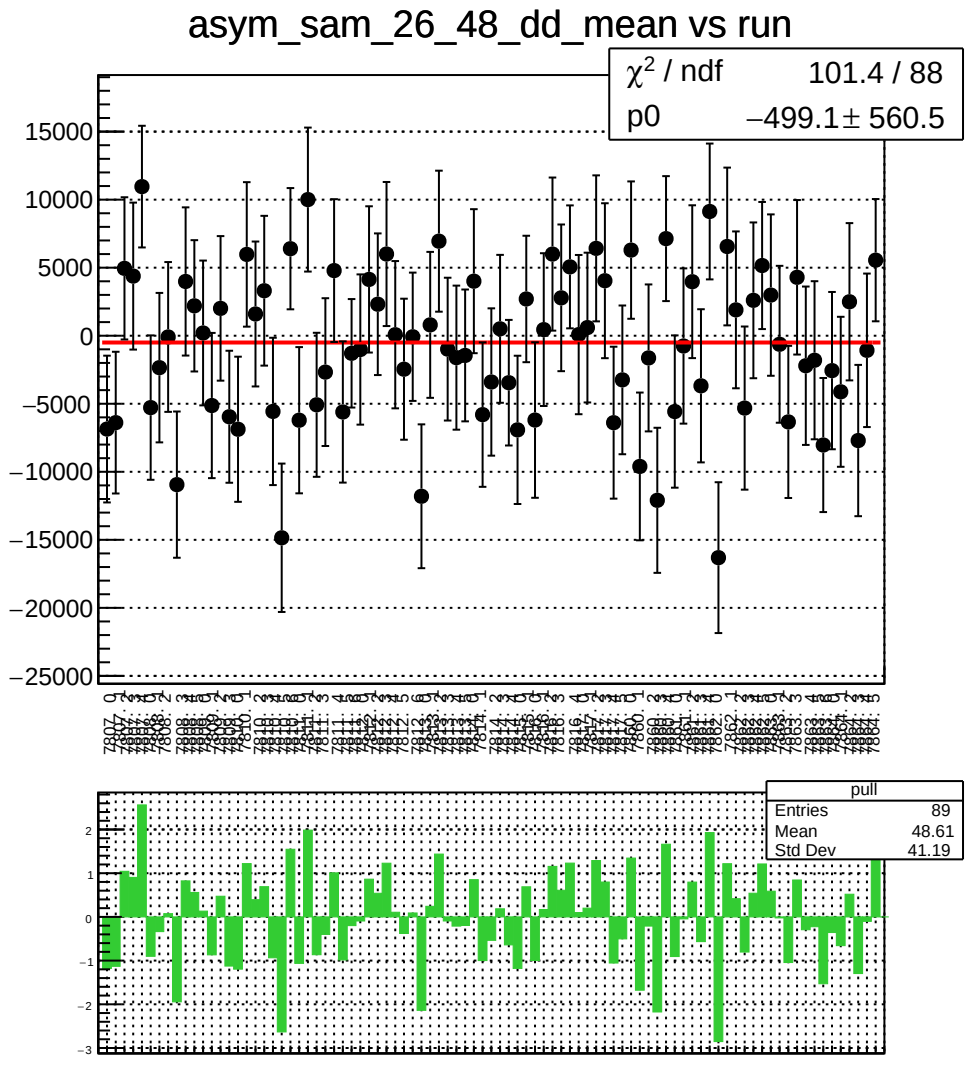

pull1D
Entries 89
Mean −0.002303
Std Dev 1.01

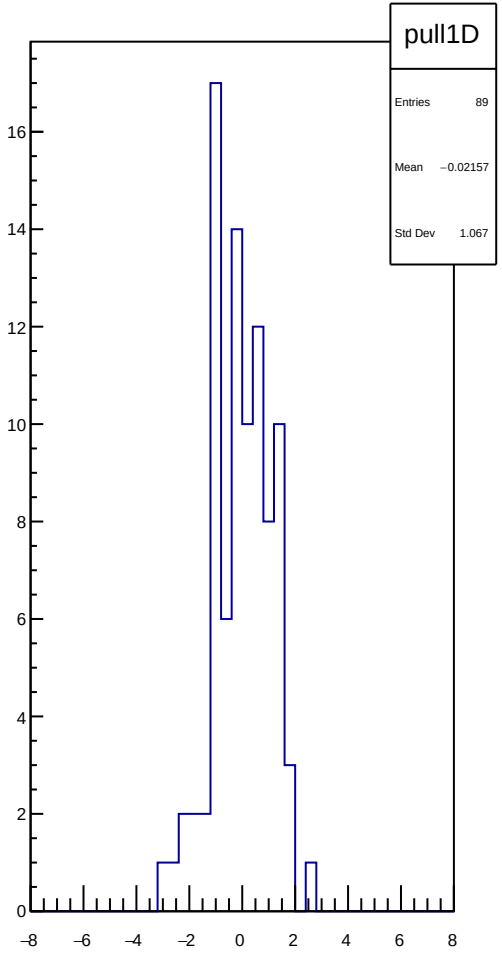

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 4788 / 88
p0 86.54 ± 0.06621
120
110
100
90
80

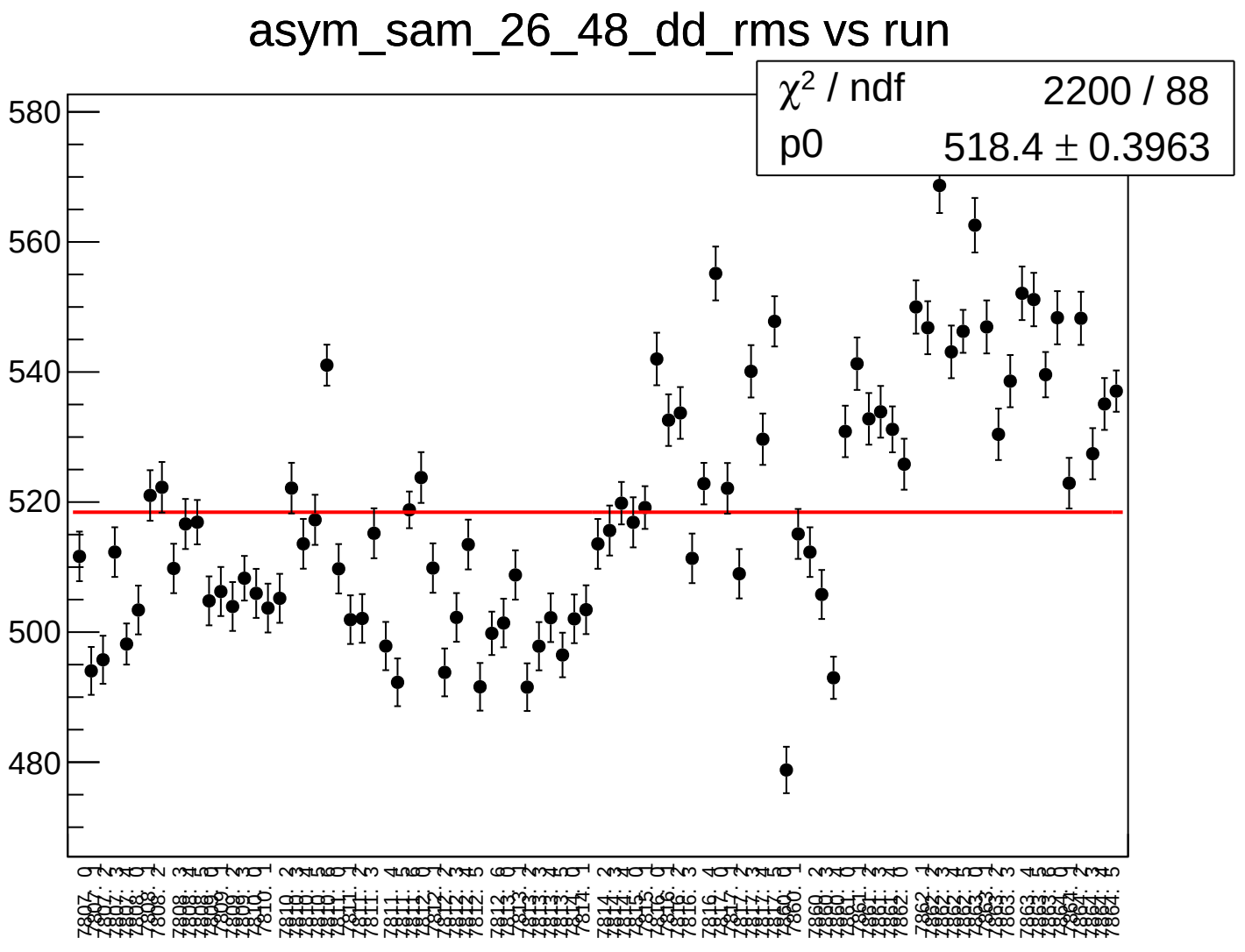

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 102.5 / 88
p0 375.2 ± 552.4
pull
Entries 89
Mean 58.1
Std Dev 43.89

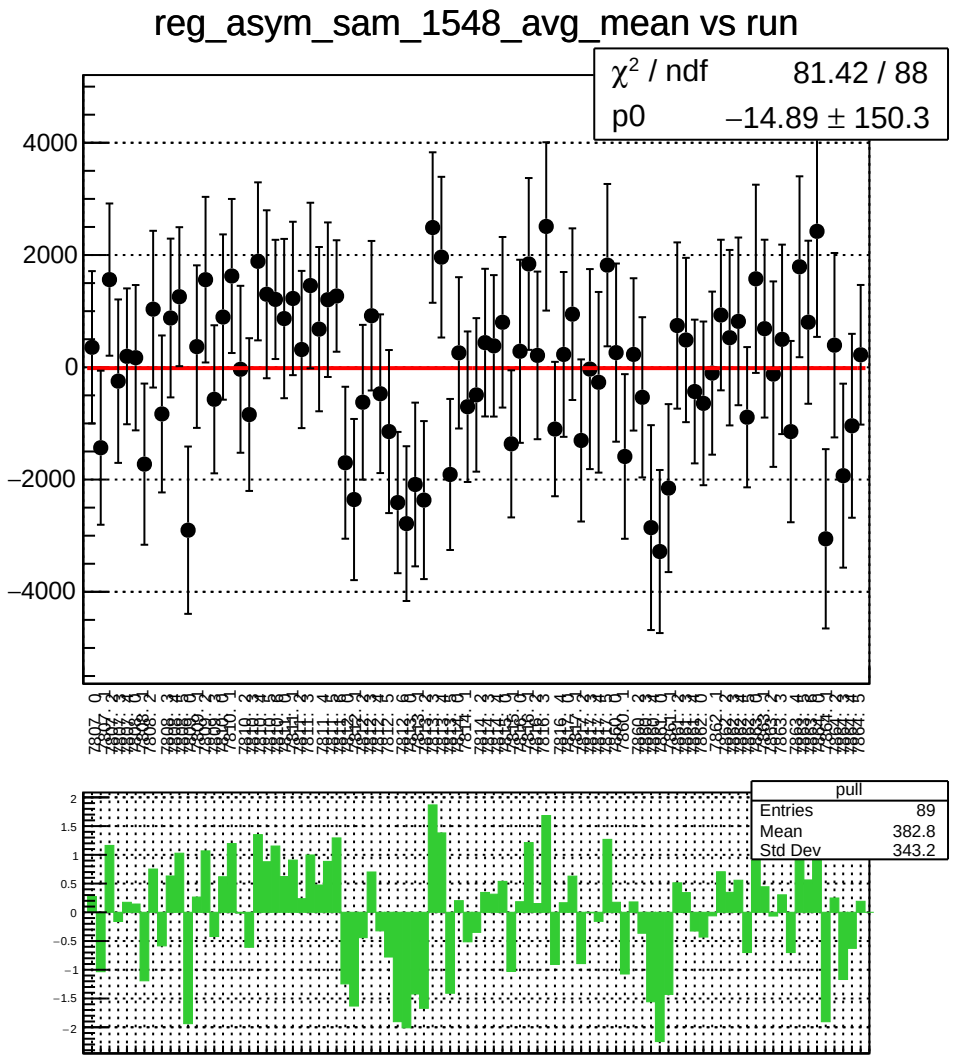

pull1D
Entries 89
Mean 0.02118
Std Dev 1.073

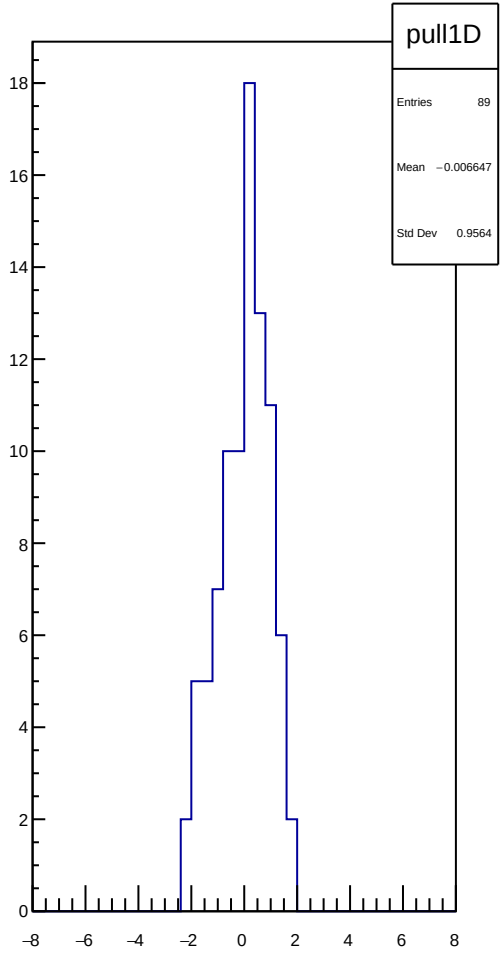

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 2408 / 88
p0 510.9 ± 0.3906
560
540
520
500
480
460

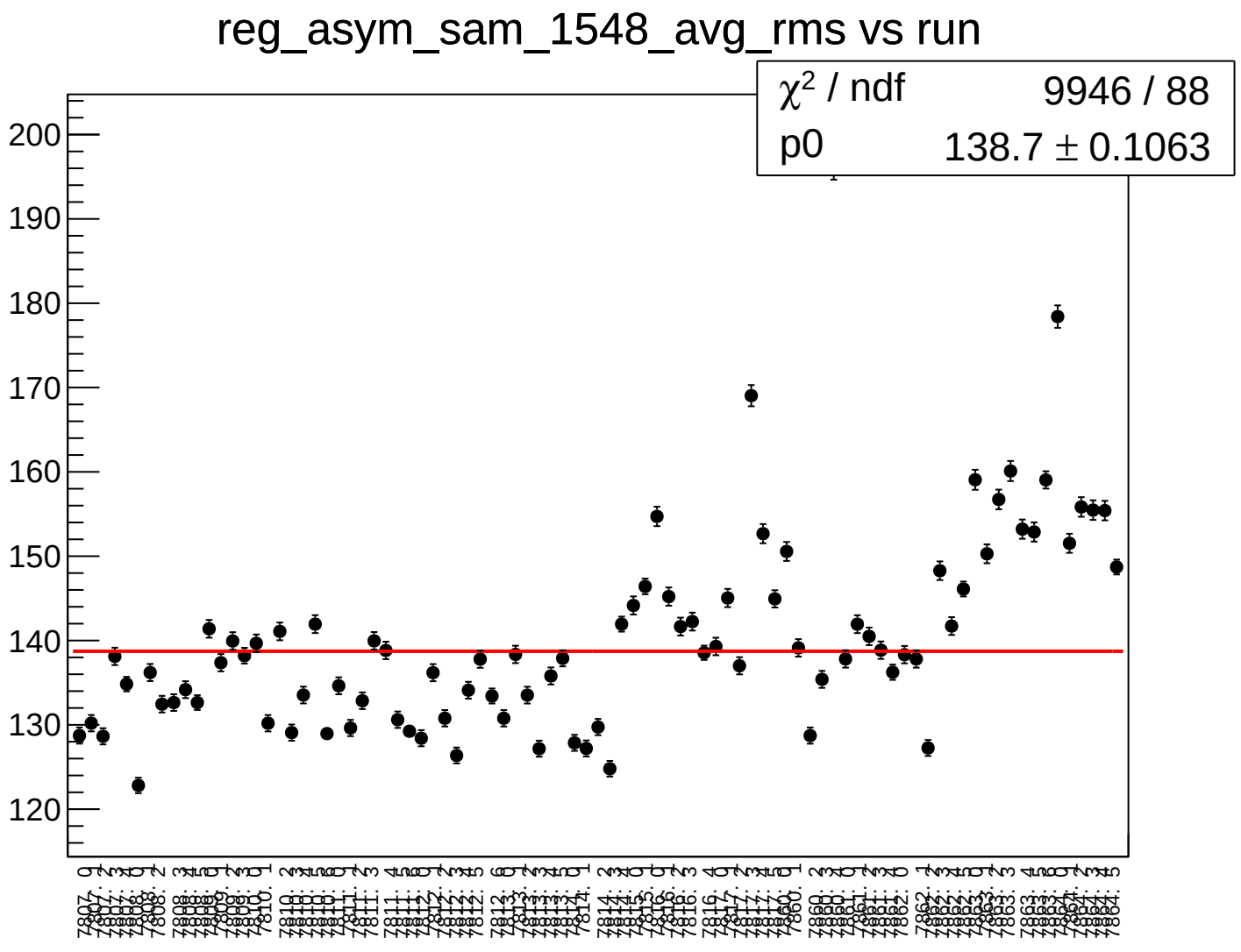

asym_sam_26_48_dd_mean vs run
χ² / ndf 101.4 / 88
p0 −499.1 ± 560.5
pull
Entries 89
Mean 48.61
Std Dev 41.19

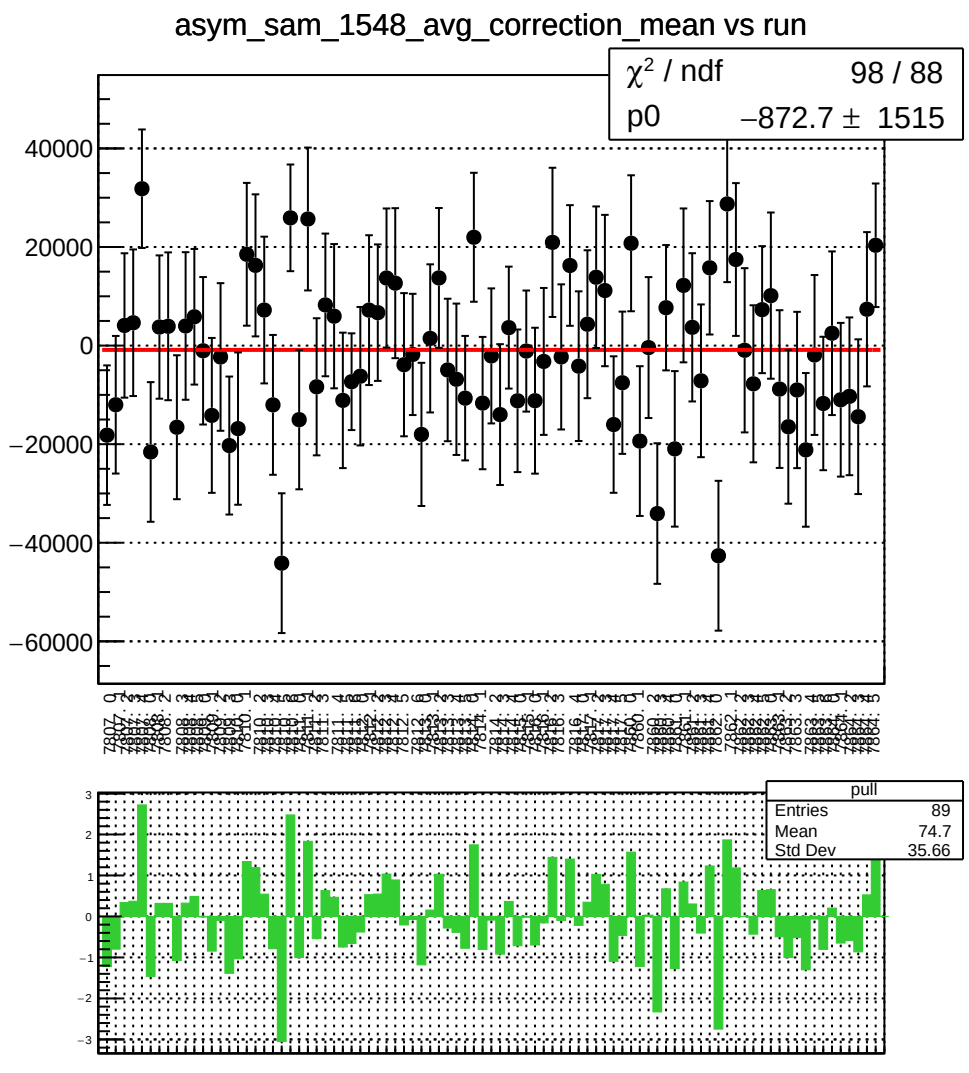

pull1D
Entries 89
Mean −0.02157
Std Dev 1.067

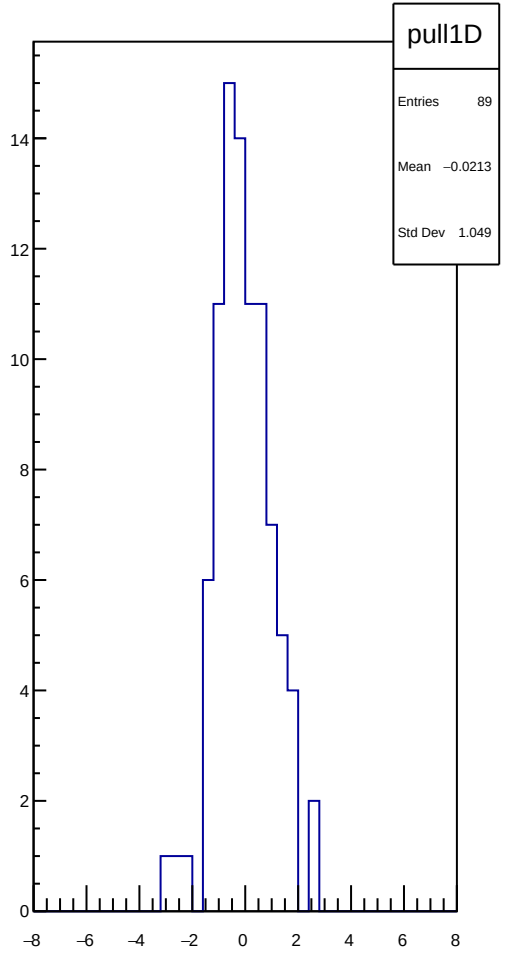

asym_sam_26_48_dd_rms vs run
χ² / ndf 2200 / 88
p0 518.4 ± 0.3963
580
560
540
520
500
480

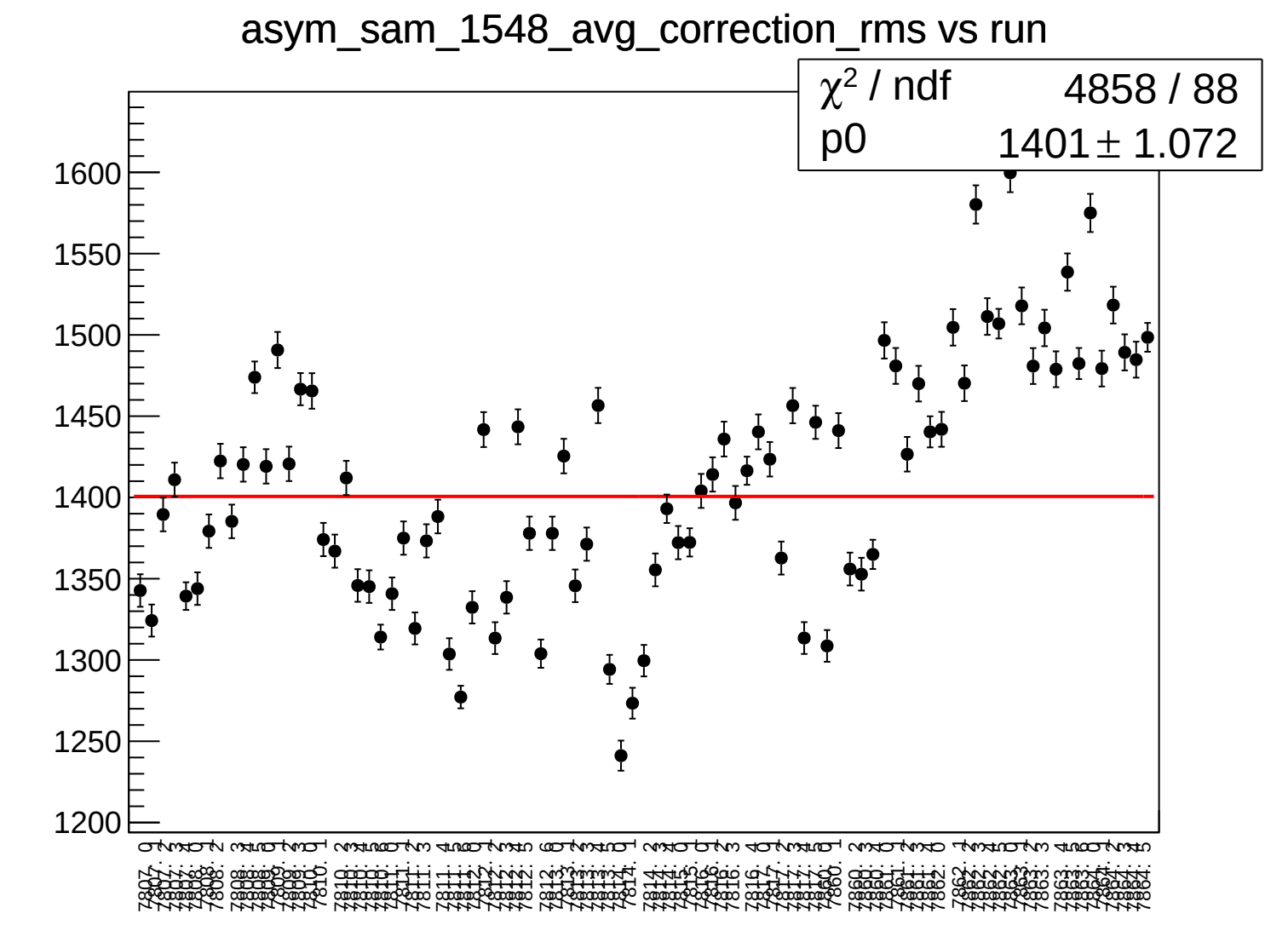

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 81.42 / 88
p0 −14.89 ± 150.3
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 382.8
Std Dev 343.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

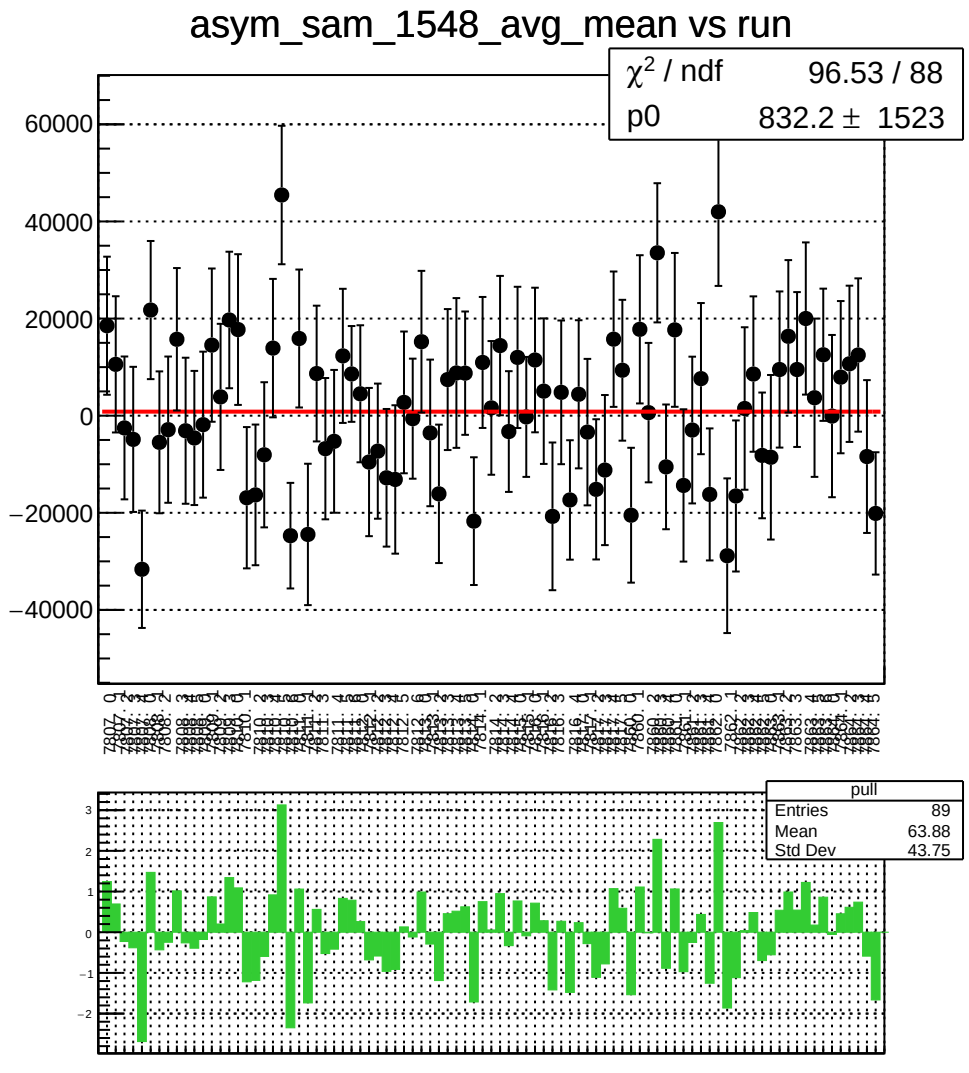

pull1D
Entries 89
Mean −0.006647
Std Dev 0.9564
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

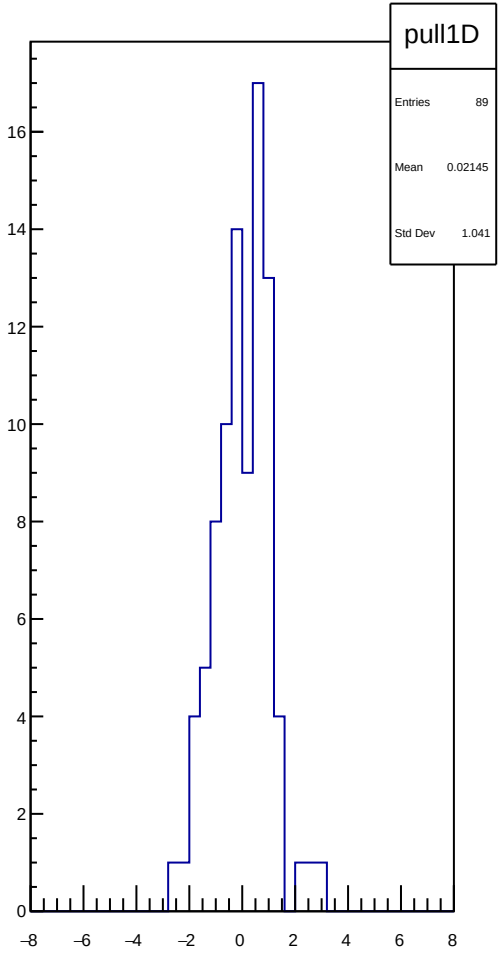

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 9946 / 88
p0 138.7 ± 0.1063
200
190
180
170
160
150
140
130
120

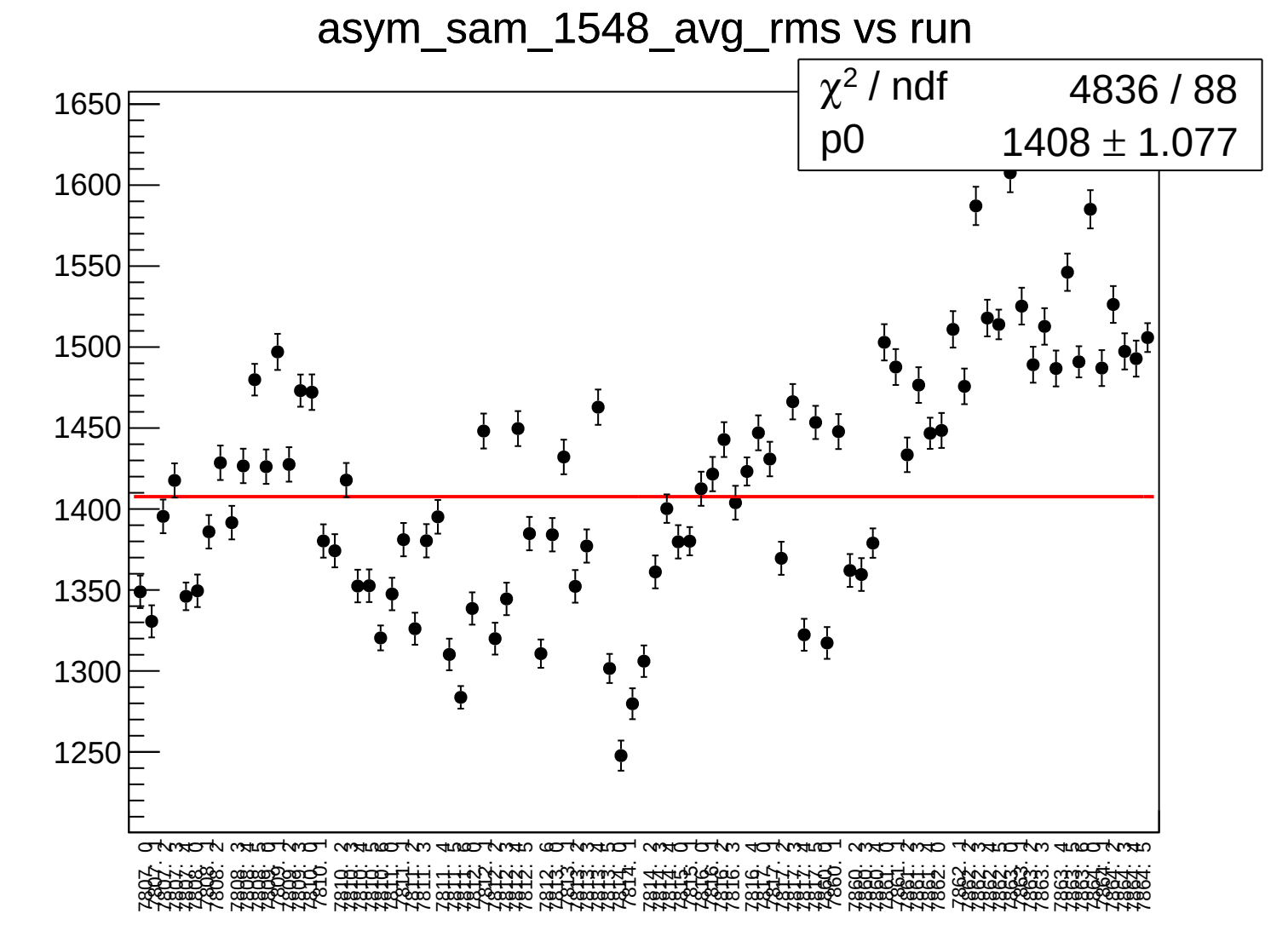

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 98 / 88
p0 −872.7 ± 1515
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 74.7
Std Dev 35.66
3
2
1
0
−1
−2
−3

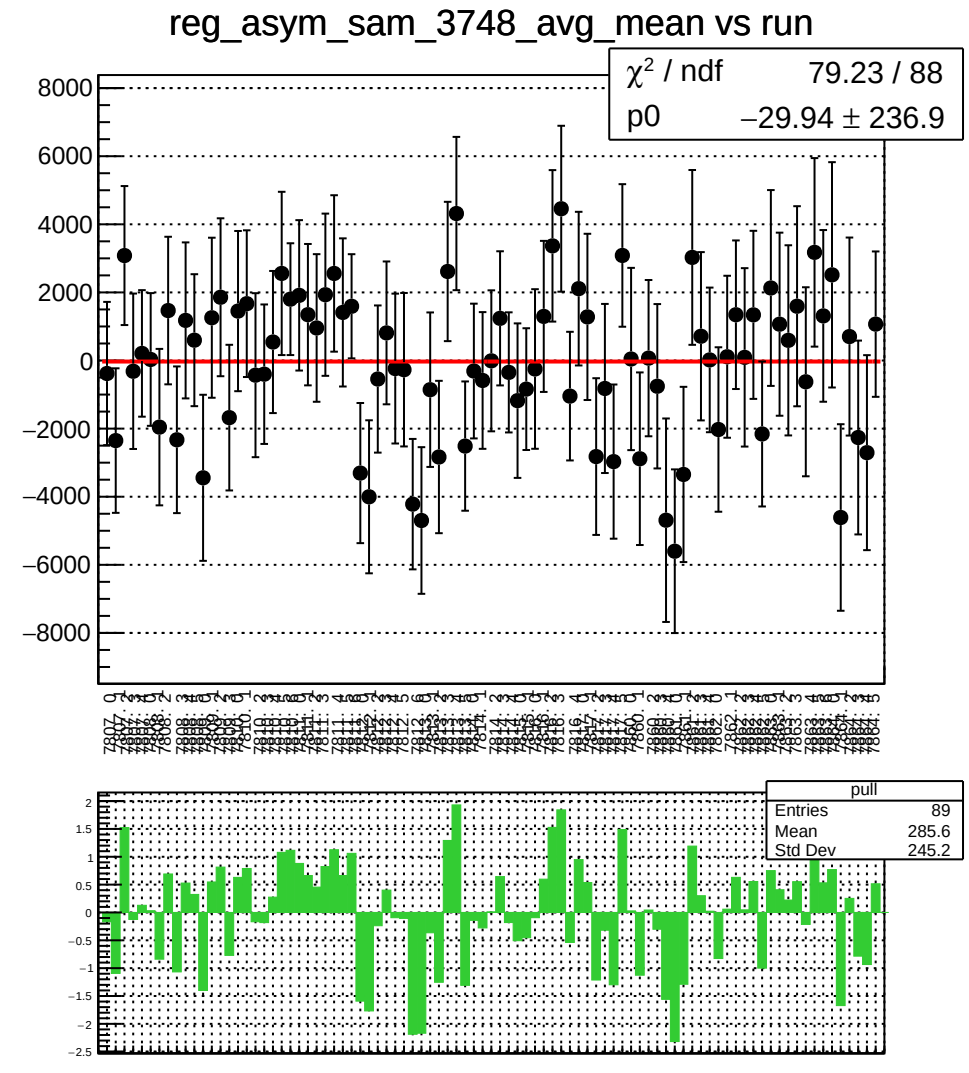

pull1D
Entries 89
Mean −0.0213
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

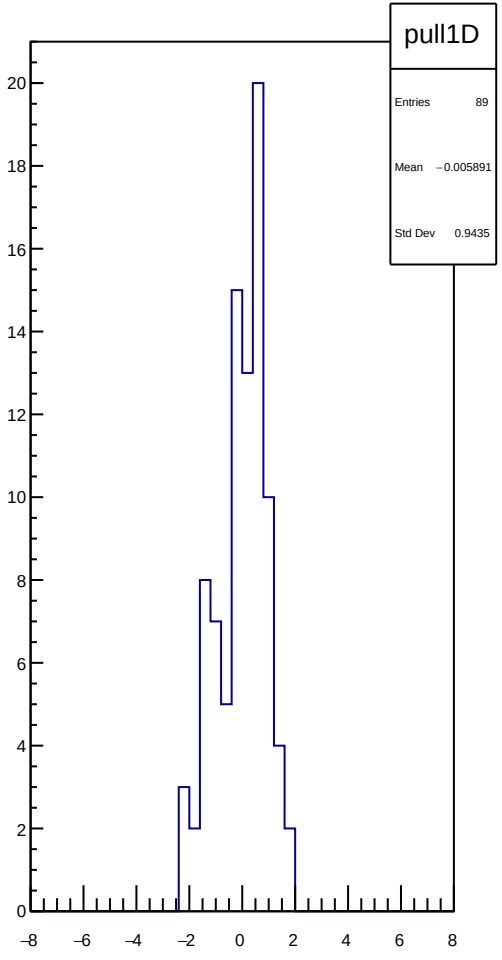

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 4858 / 88
p0 1401 ± 1.072
1600
1550
1500
1450
1400
1350
1300
1250
1200

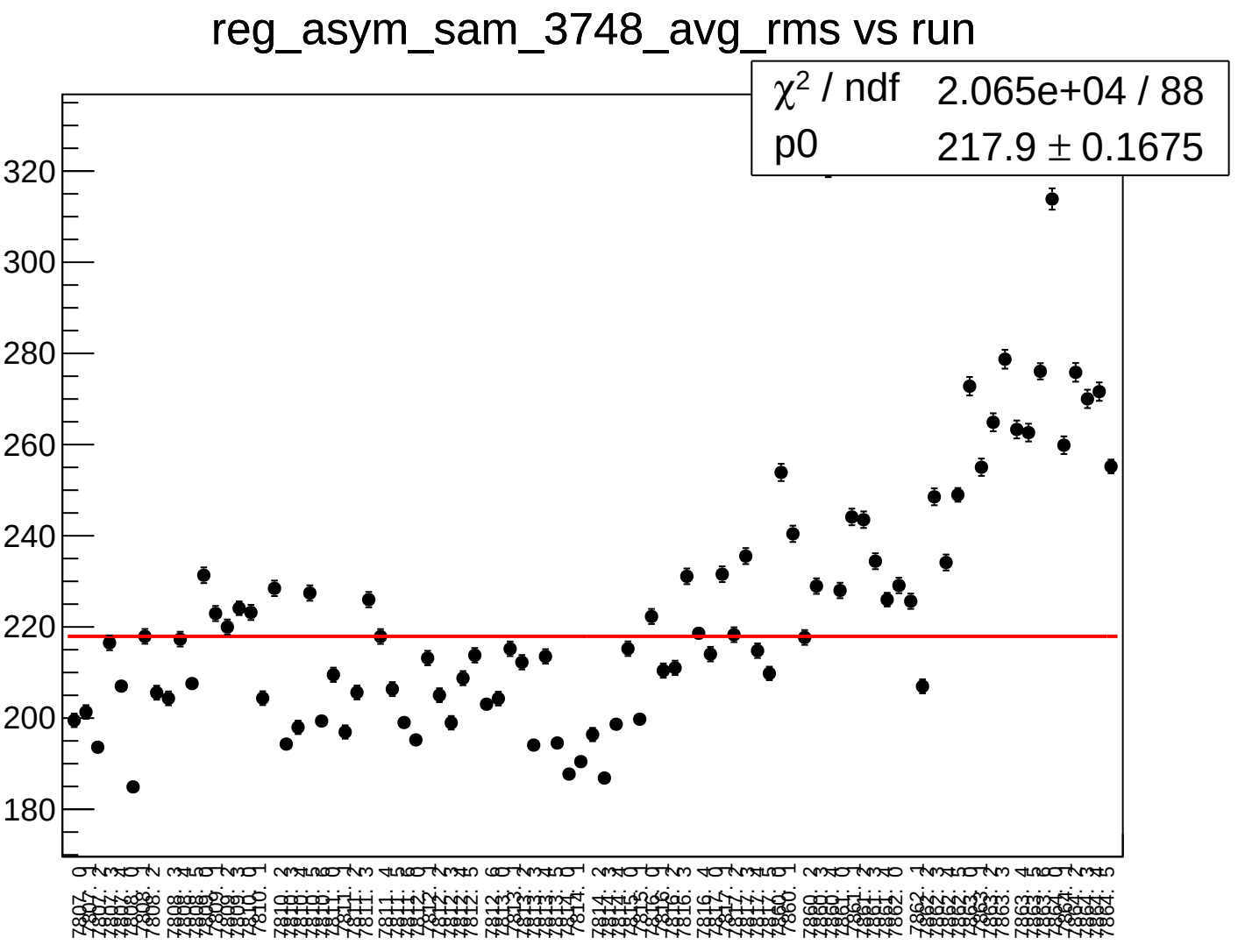

asym_sam_1548_avg_mean vs run
χ² / ndf 96.53 / 88
p0 832.2 ± 1523
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 63.88
Std Dev 43.75
3
2
1
0
−1
−2

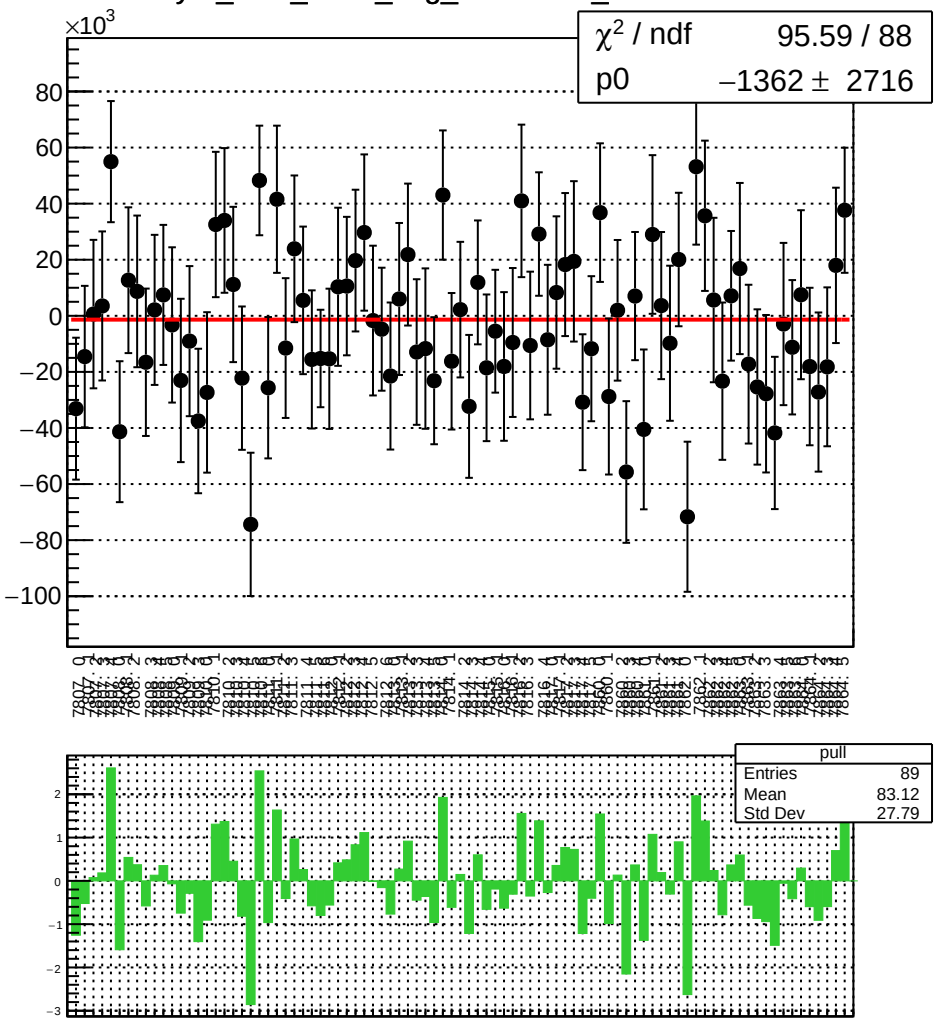

pull1D
Entries 89
Mean 0.02145
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

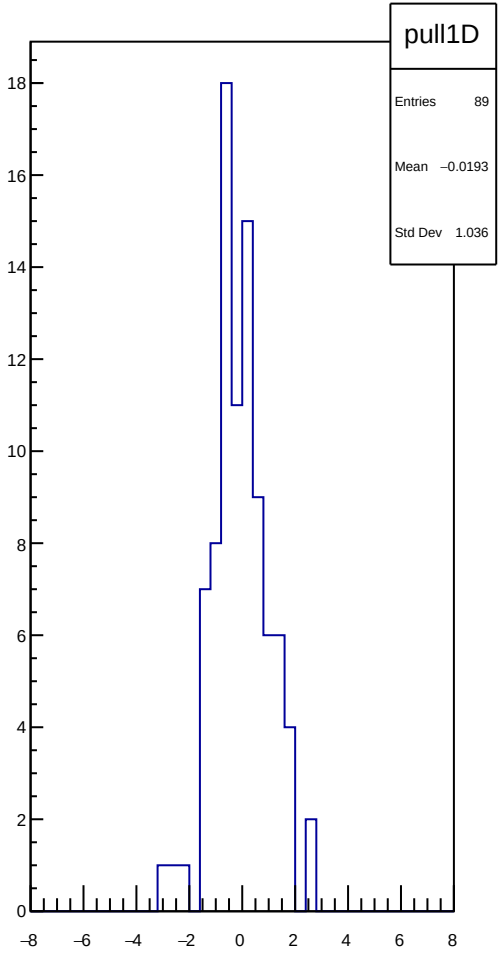

asym_sam_1548_avg_rms vs run
χ² / ndf 4836 / 88
p0 1408 ± 1.077
1650
1600
1550
1500
1450
1400
1350
1300
1250

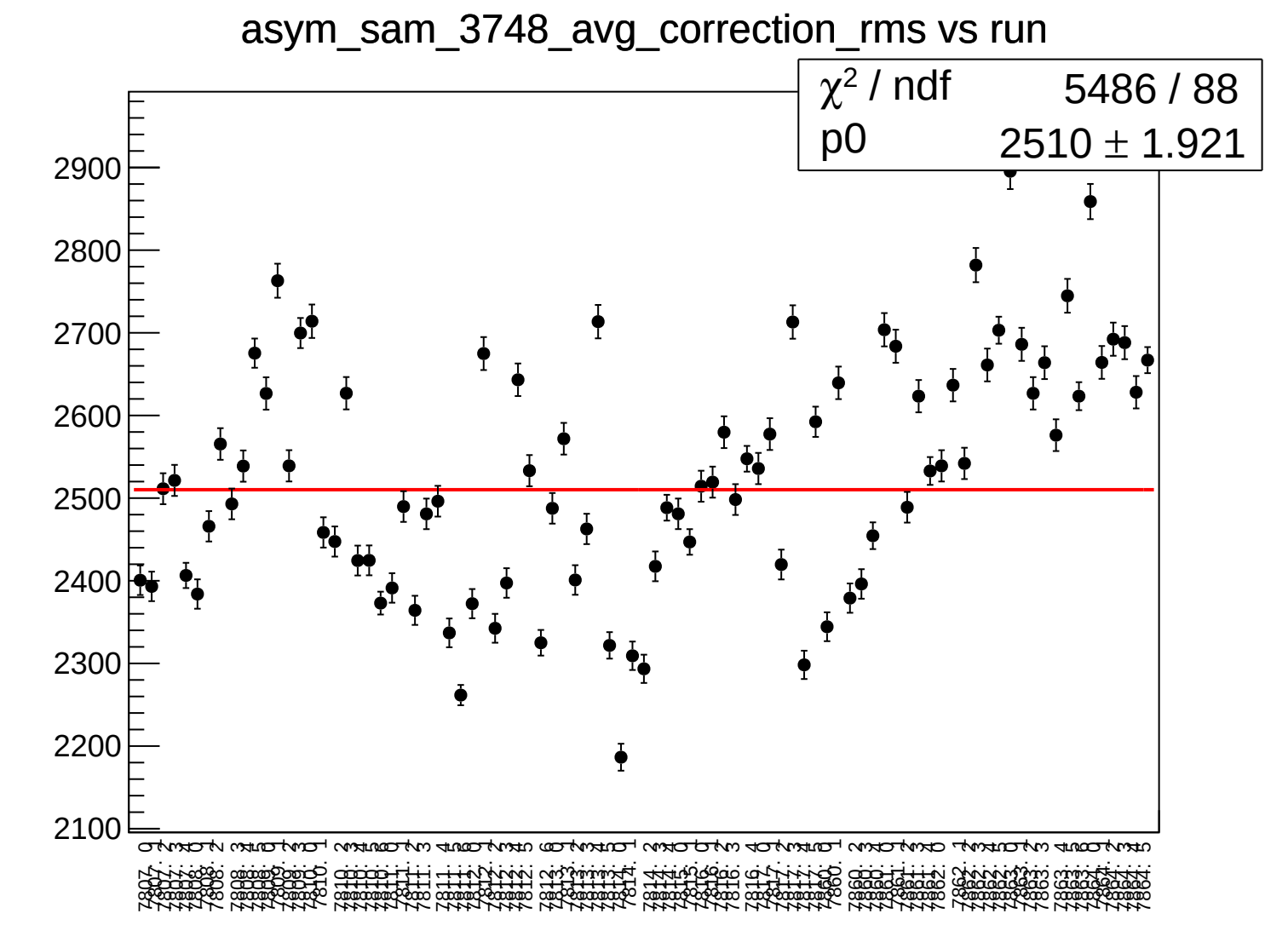

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 79.23 / 88
p0 −29.94 ± 236.9
pull
Entries 89
Mean 285.6
Std Dev 245.2

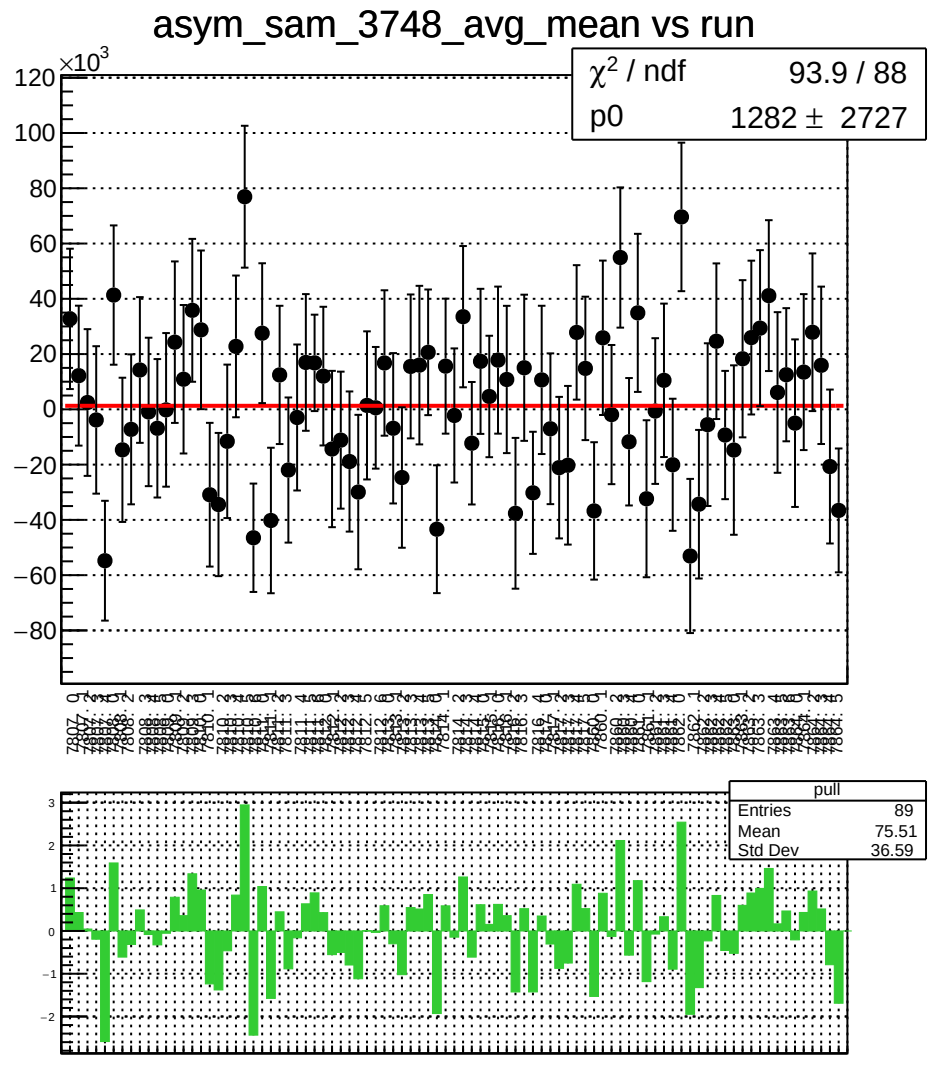

pull1D
Entries 89
Mean −0.005891
Std Dev 0.9435

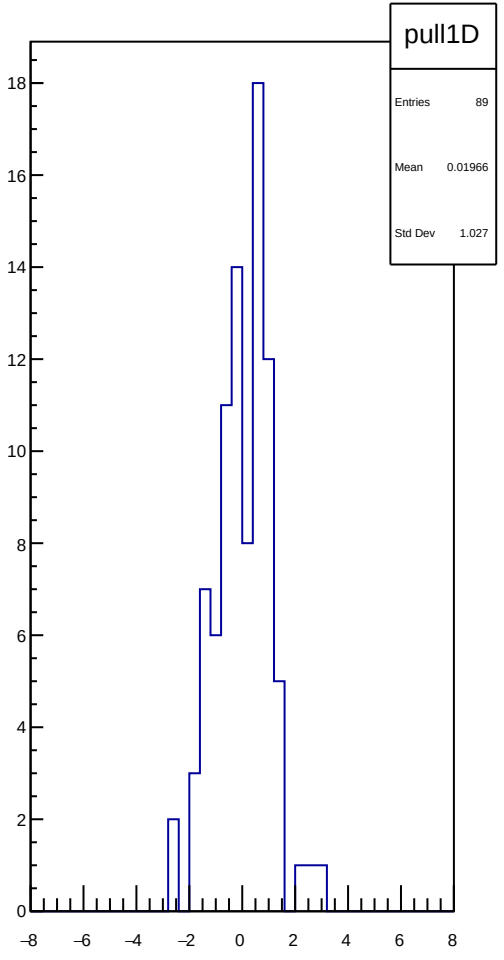

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 2.065e+04 / 88
p0 217.9 ± 0.1675
320
300
280
260
240
220
200
180

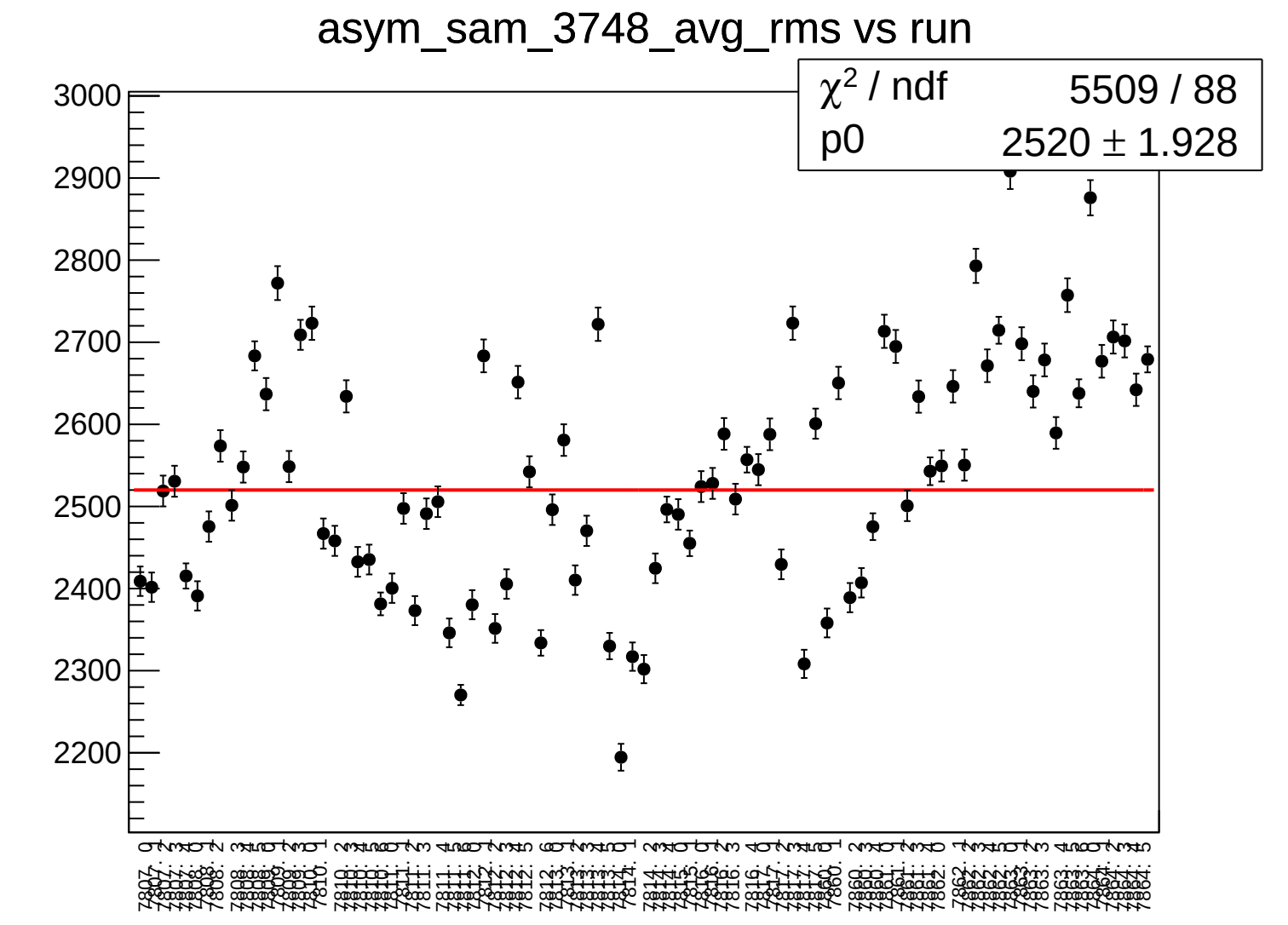

asym_sam_3748_avg_correction_mean vs run
×10^3
χ² / ndf 95.59 / 88
p0 −1362 ± 2716
pull
Entries 89
Mean 83.12
Std Dev 27.79

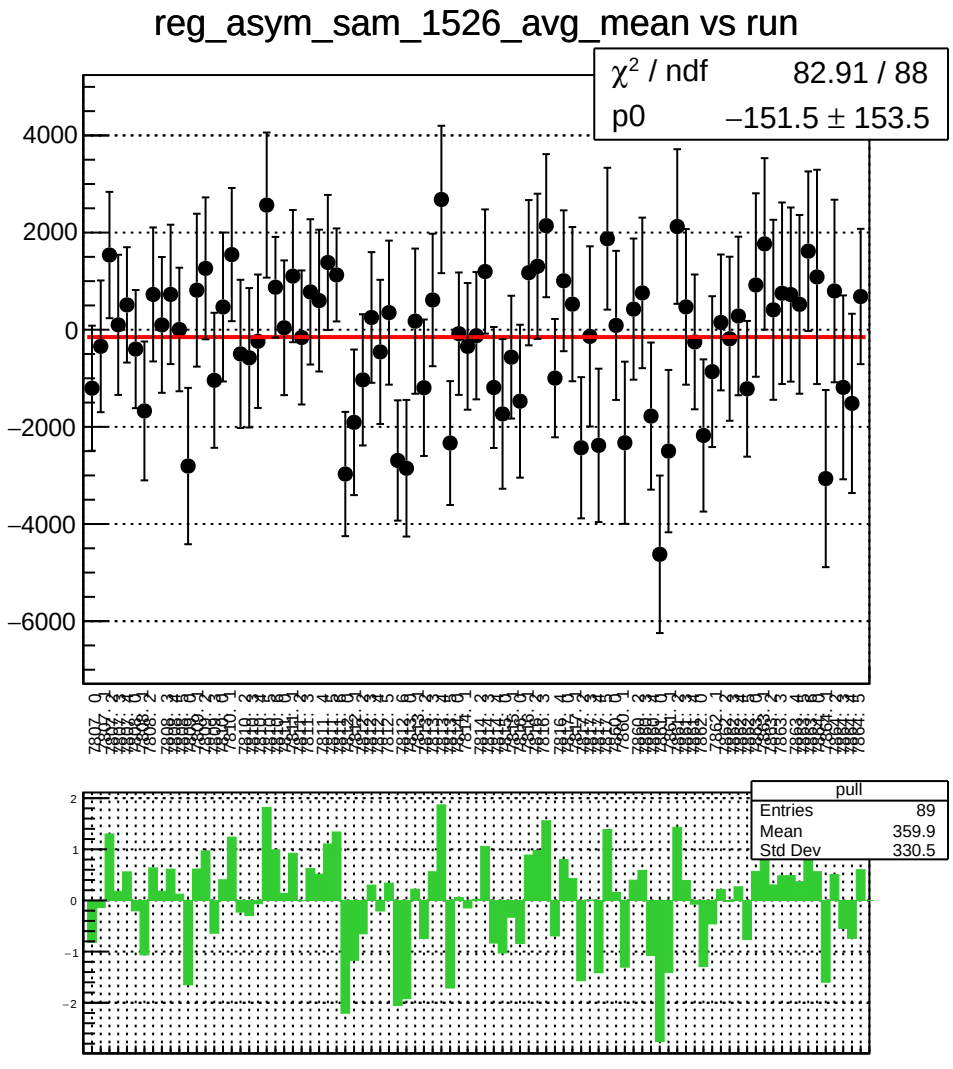

pull1D
Entries 89
Mean −0.0193
Std Dev 1.036

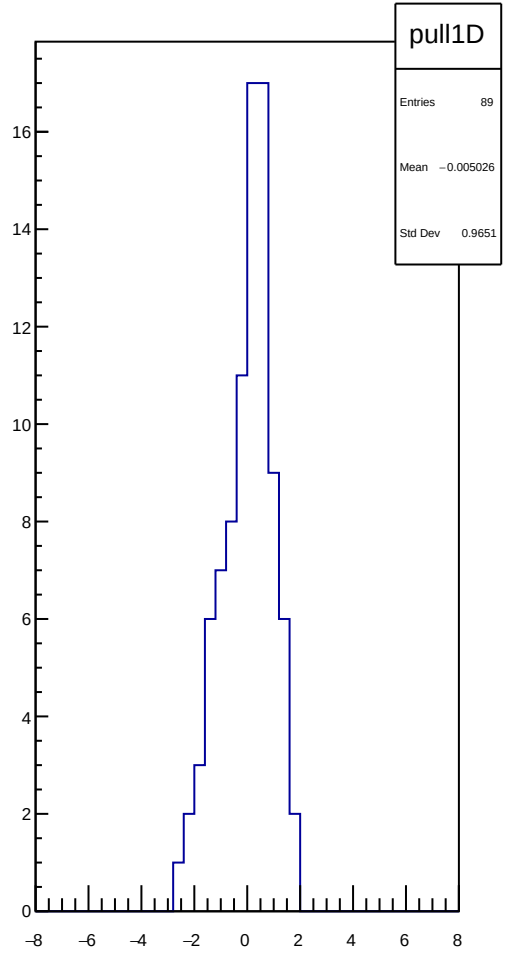

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 5486 / 88
p0 2510 ± 1.921
2900
2800
2700
2600
2500
2400
2300
2200
2100

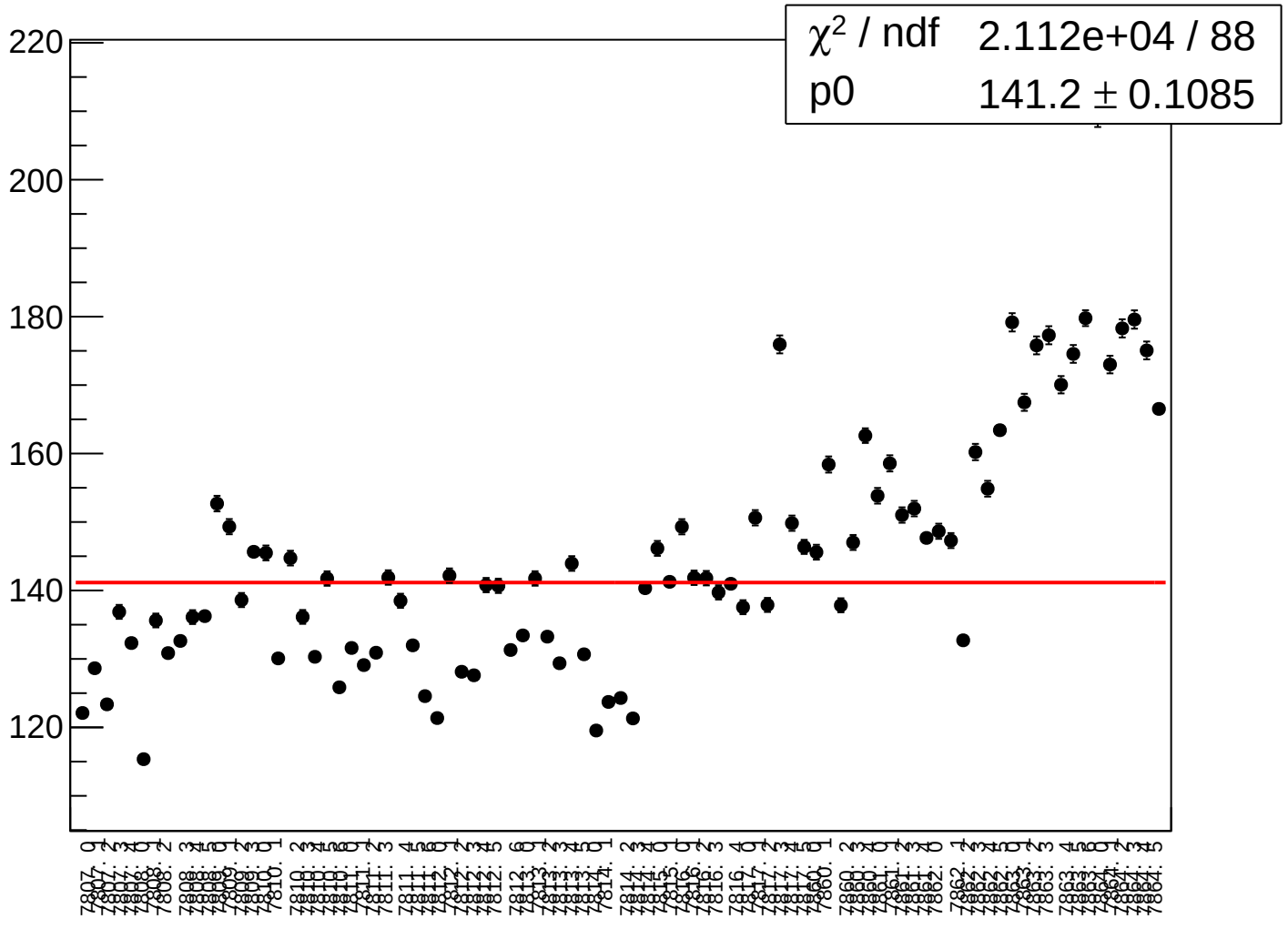

asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 93.9 / 88
p0 1282 ± 2727
pull
Entries 89
Mean 75.51
Std Dev 36.59

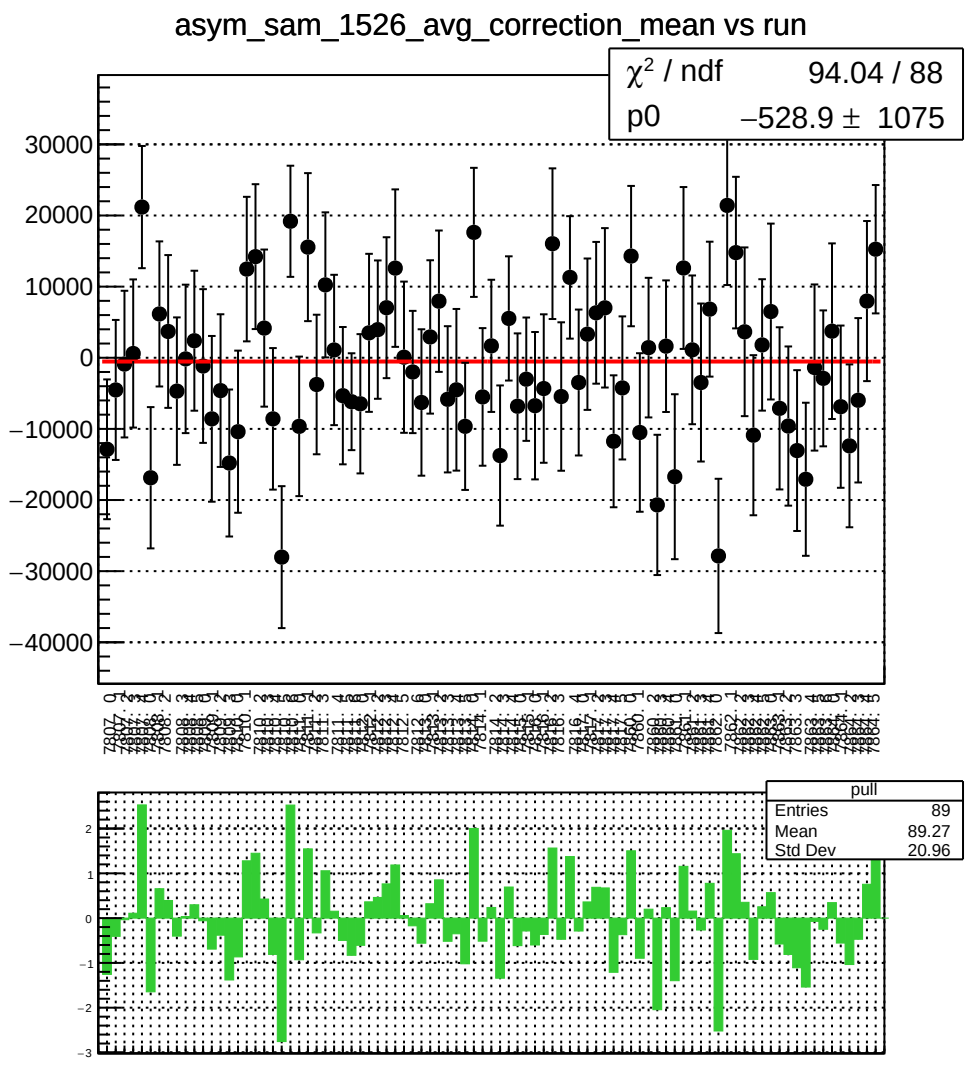

pull1D
Entries 89
Mean 0.01966
Std Dev 1.027

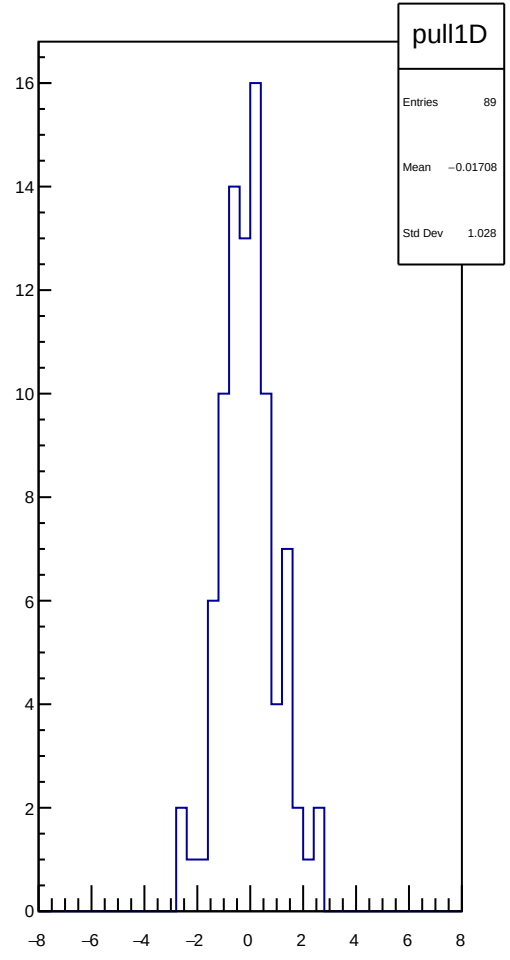

asym_sam_3748_avg_rms vs run
χ² / ndf 5509 / 88
p0 2520 ± 1.928
3000
2900
2800
2700
2600
2500
2400
2300
2200

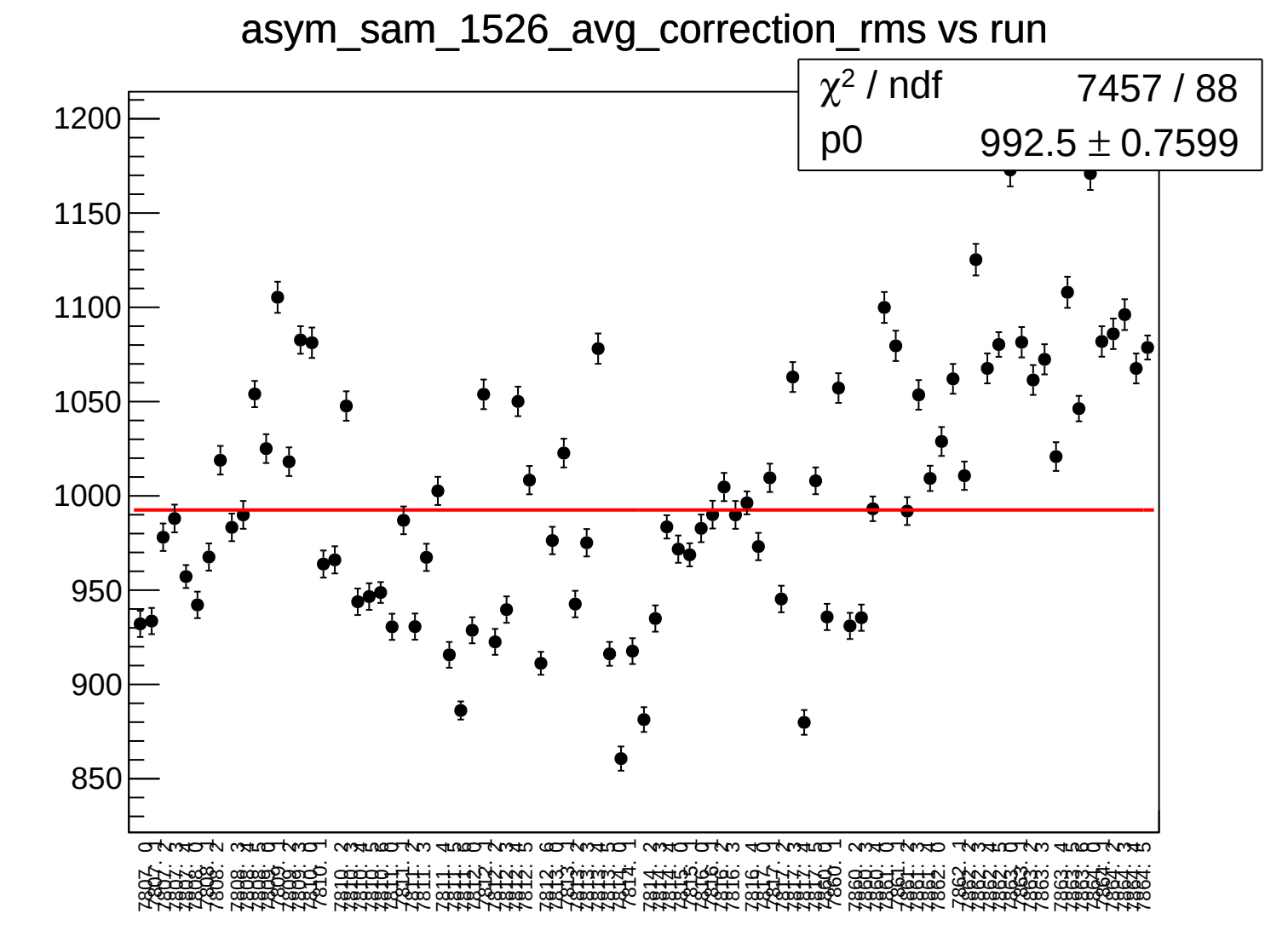

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 82.91 / 88
p0 −151.5 ± 153.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 359.9
Std Dev 330.5
2
1
0
−1
−2

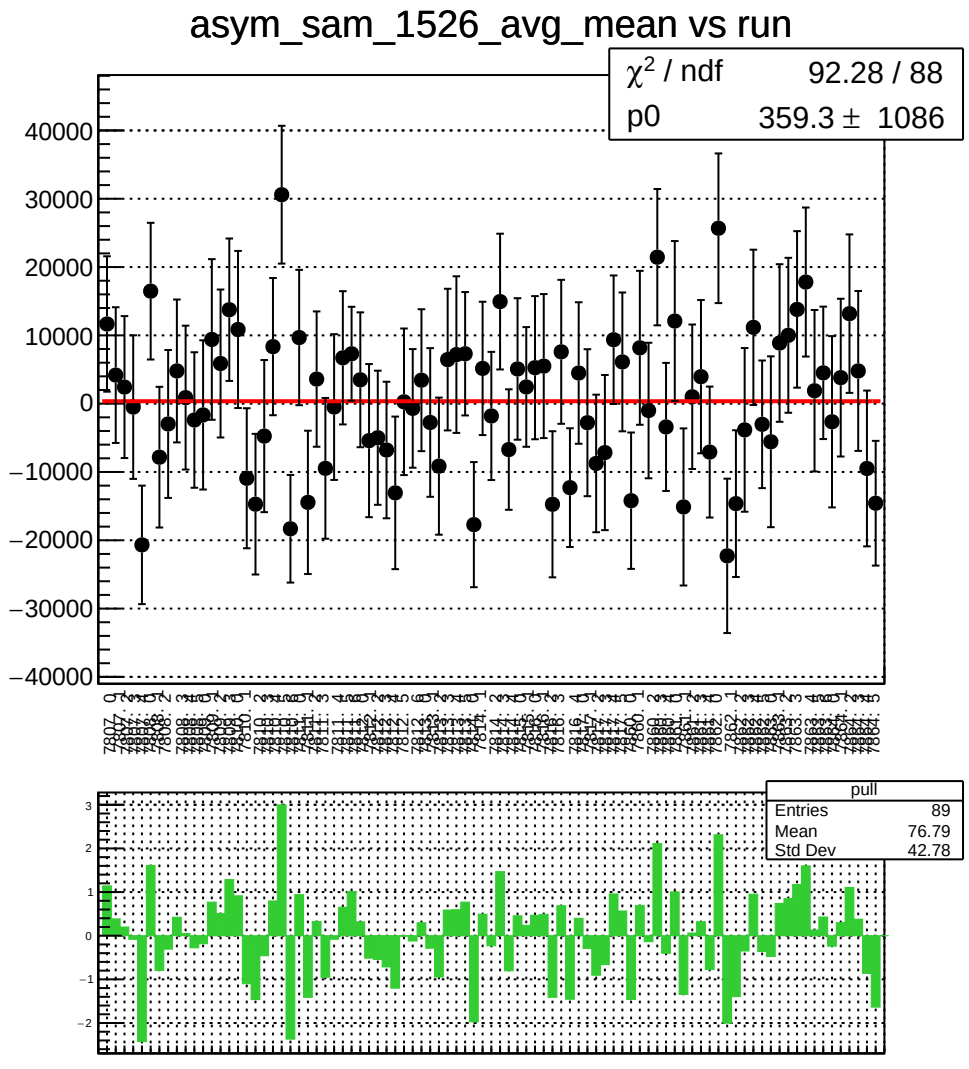

pull1D
Entries 89
Mean −0.005026
Std Dev 0.9651
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

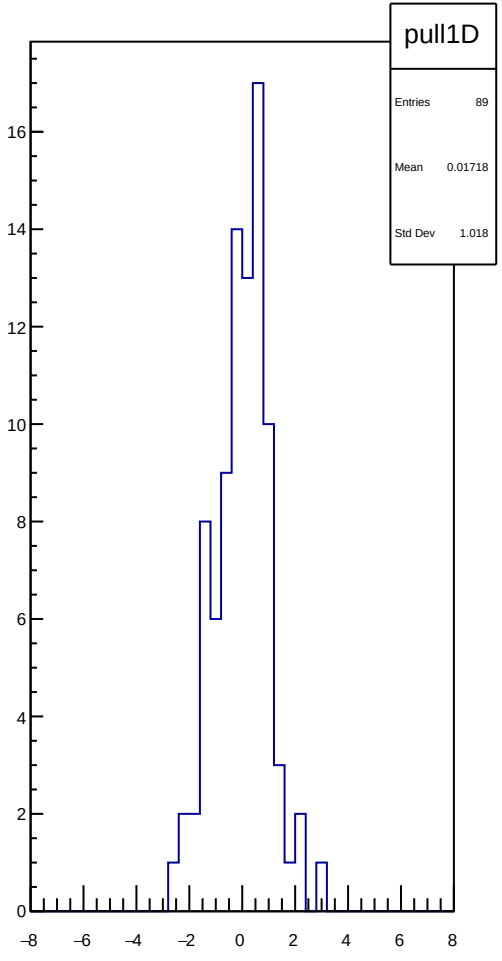

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.112e+04 / 88
p0 141.2 ± 0.1085
220
200
180
160
140
120

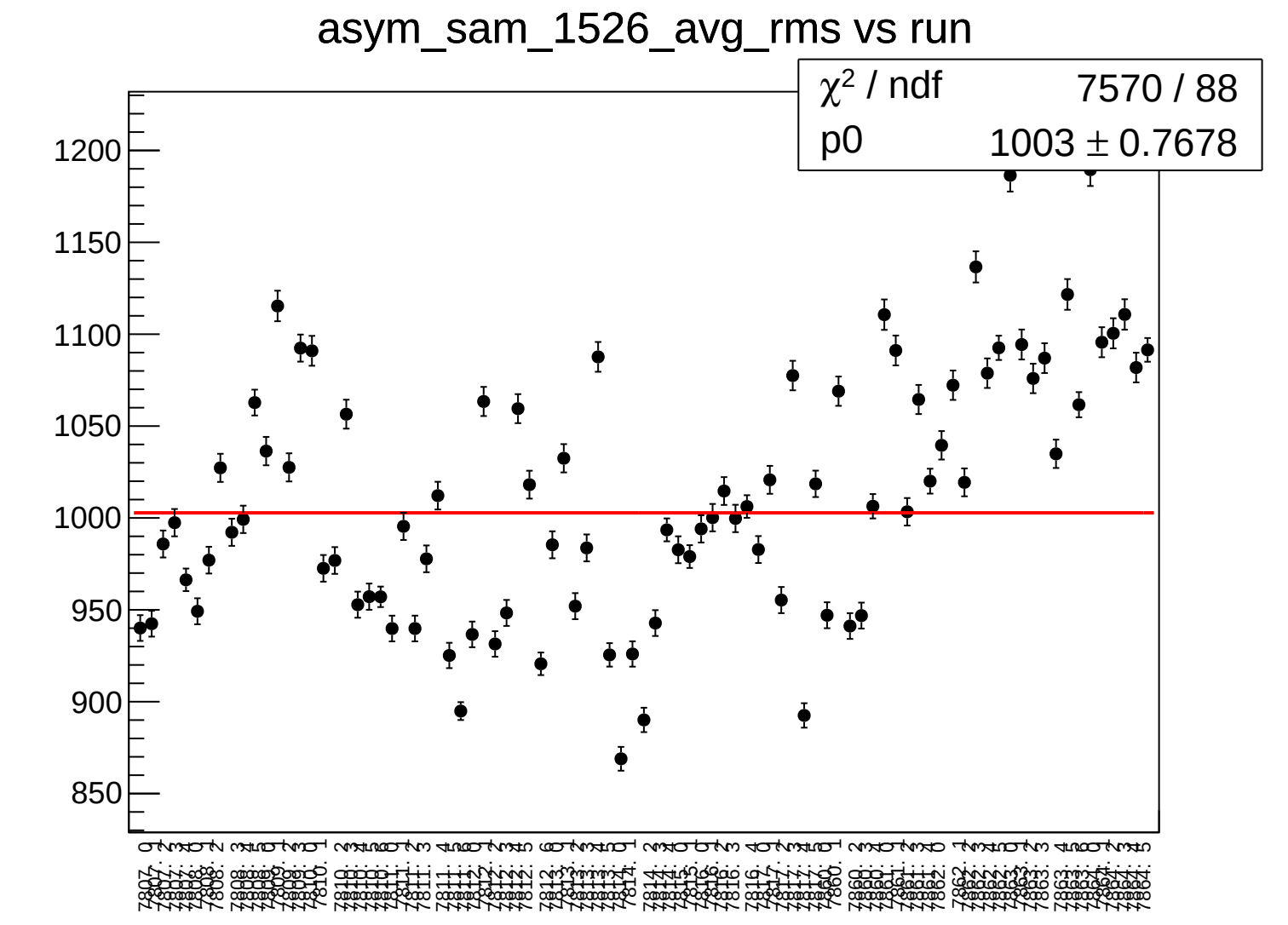

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 94.04 / 88
p0 −528.9 ± 1075
pull
Entries 89
Mean 89.27
Std Dev 20.96

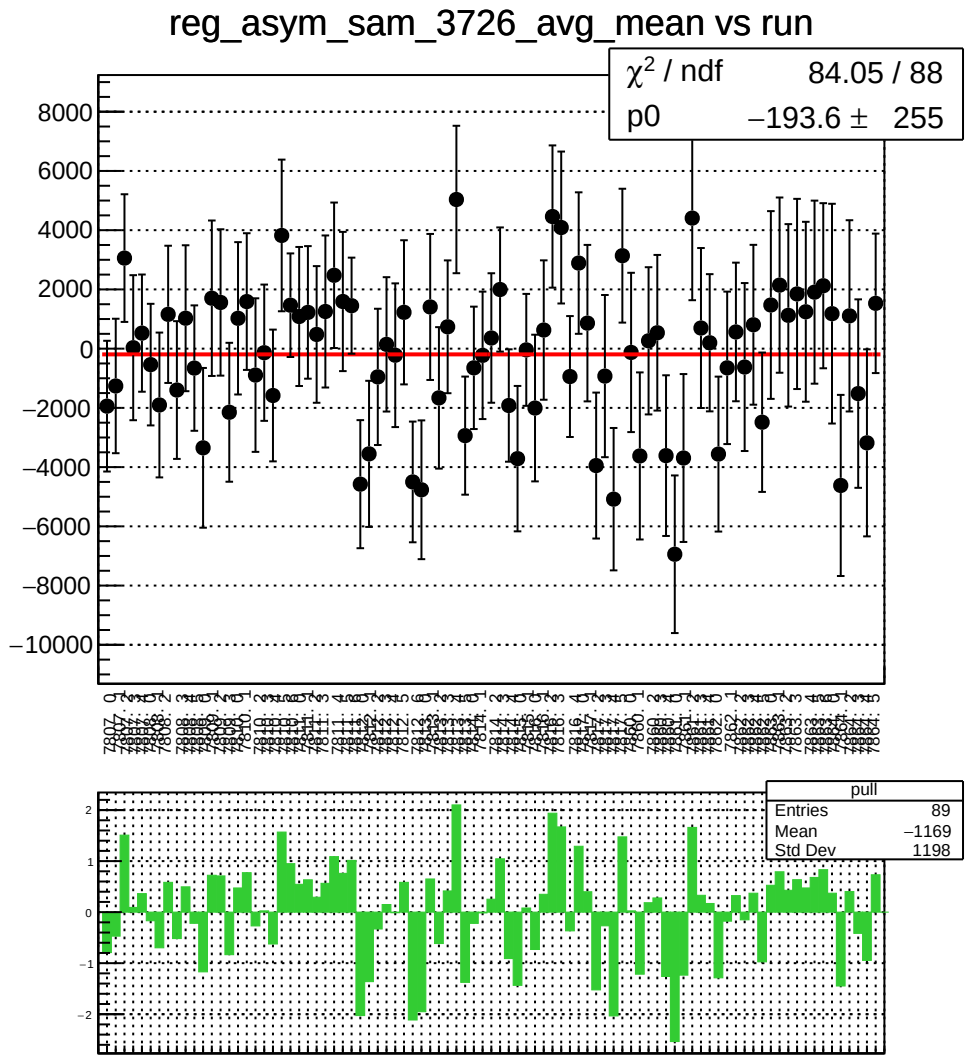

pull1D
Entries 89
Mean −0.01708
Std Dev 1.028

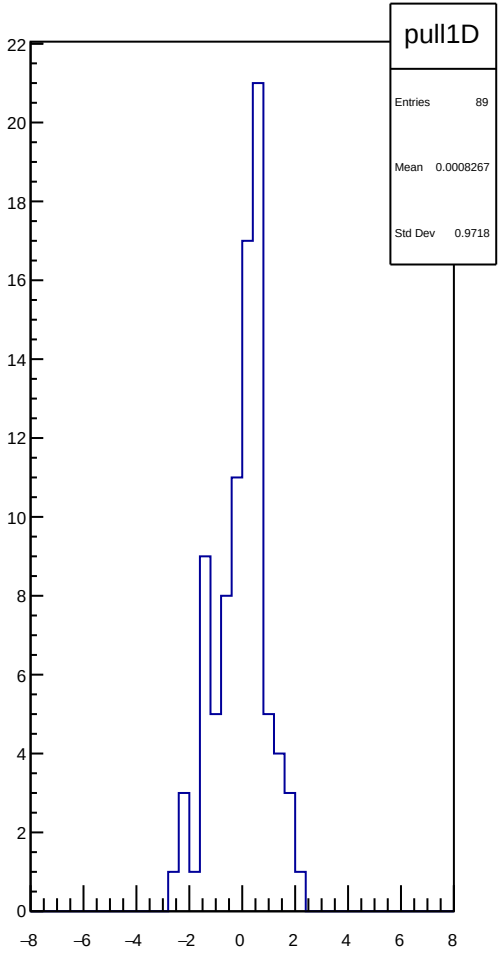

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 7457 / 88
p0 992.5 ± 0.7599
1200
1150
1100
1050
1000
950
900
850

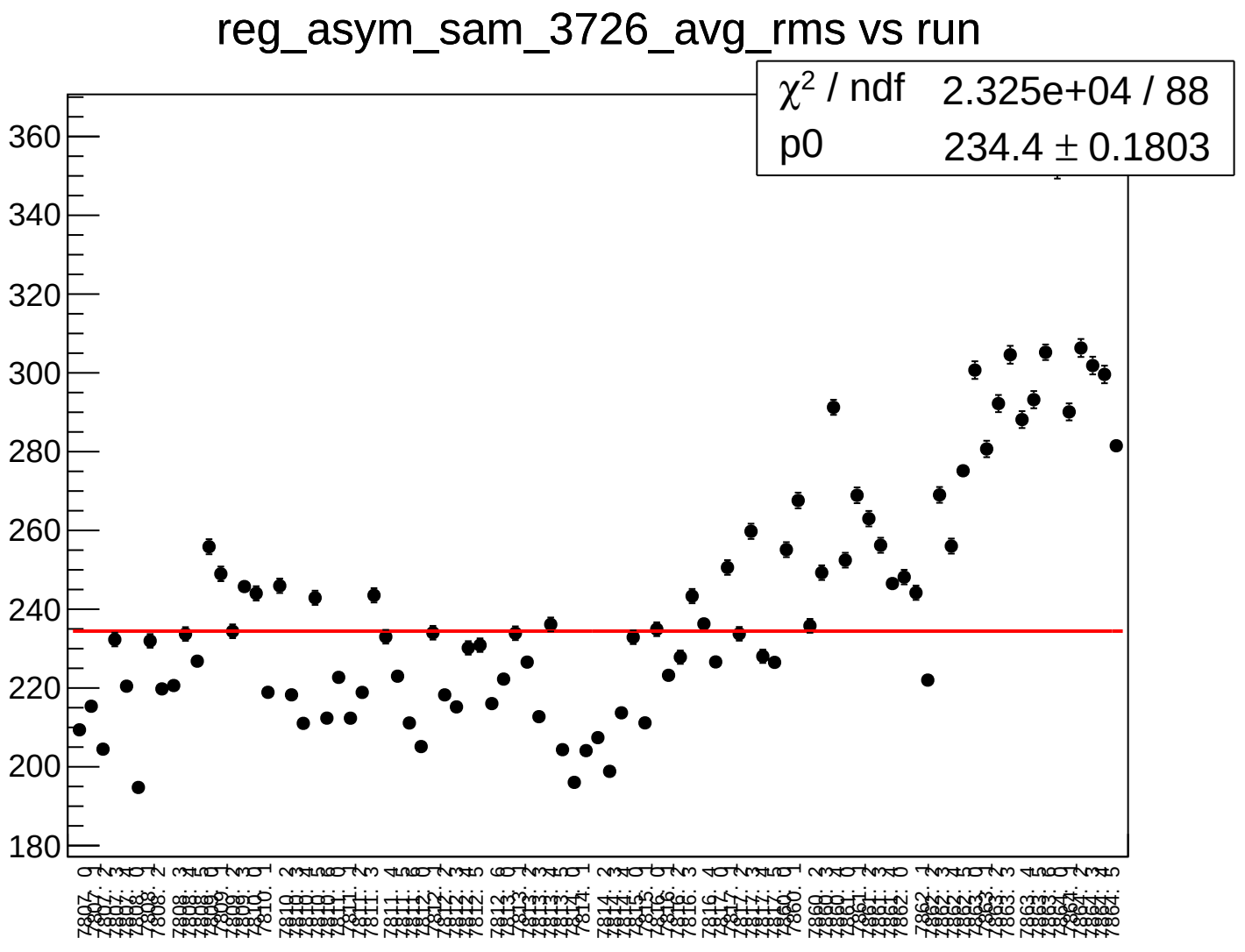

asym_sam_1526_avg_mean vs run
χ² / ndf 92.28 / 88
p0 359.3 ± 1086
pull
Entries 89
Mean 76.79
Std Dev 42.78

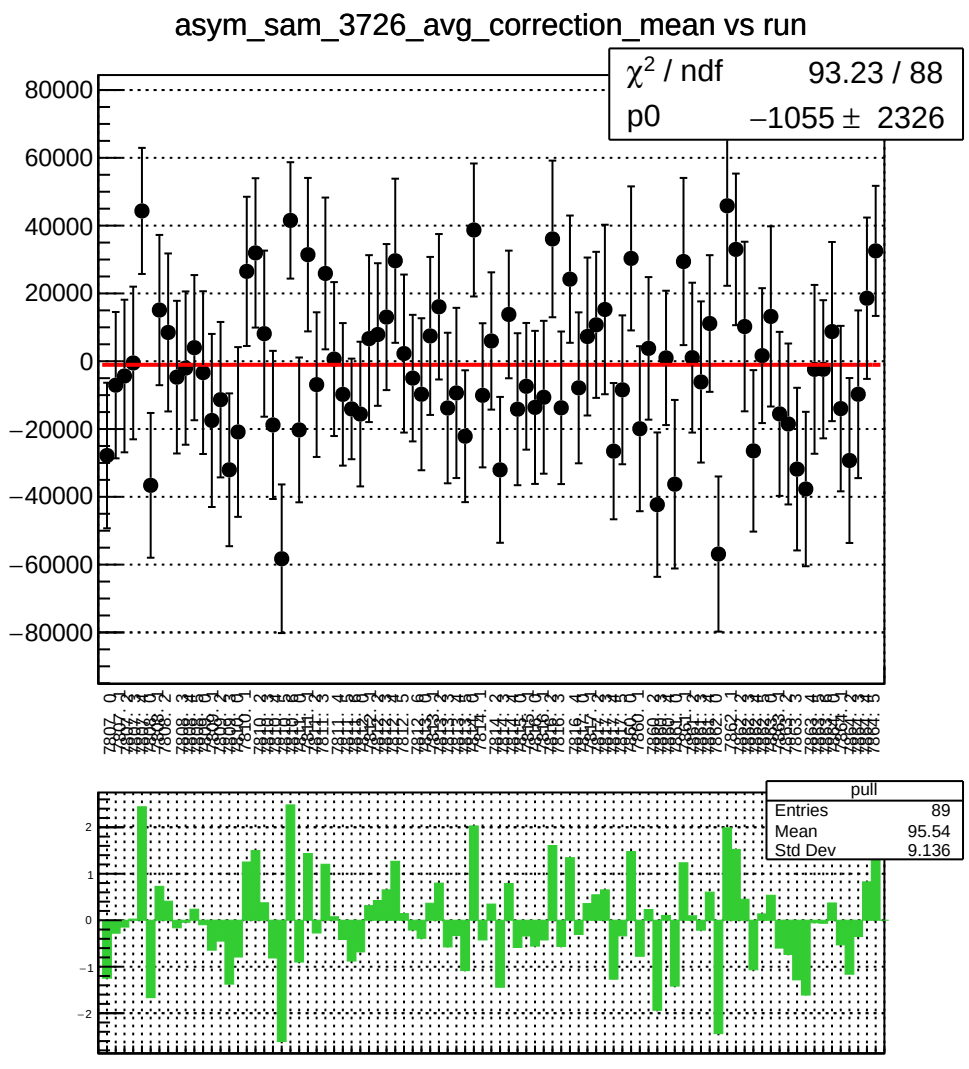

pull1D
Entries 89
Mean 0.01718
Std Dev 1.018

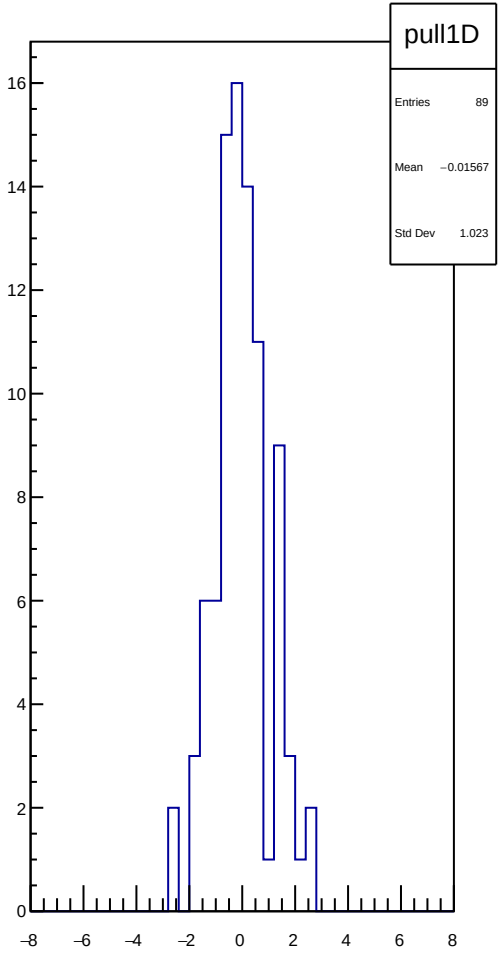

asym_sam_1526_avg_rms vs run
χ² / ndf 7570 / 88
p0 1003 ± 0.7678
1200
1150
1100
1050
1000
950
900
850

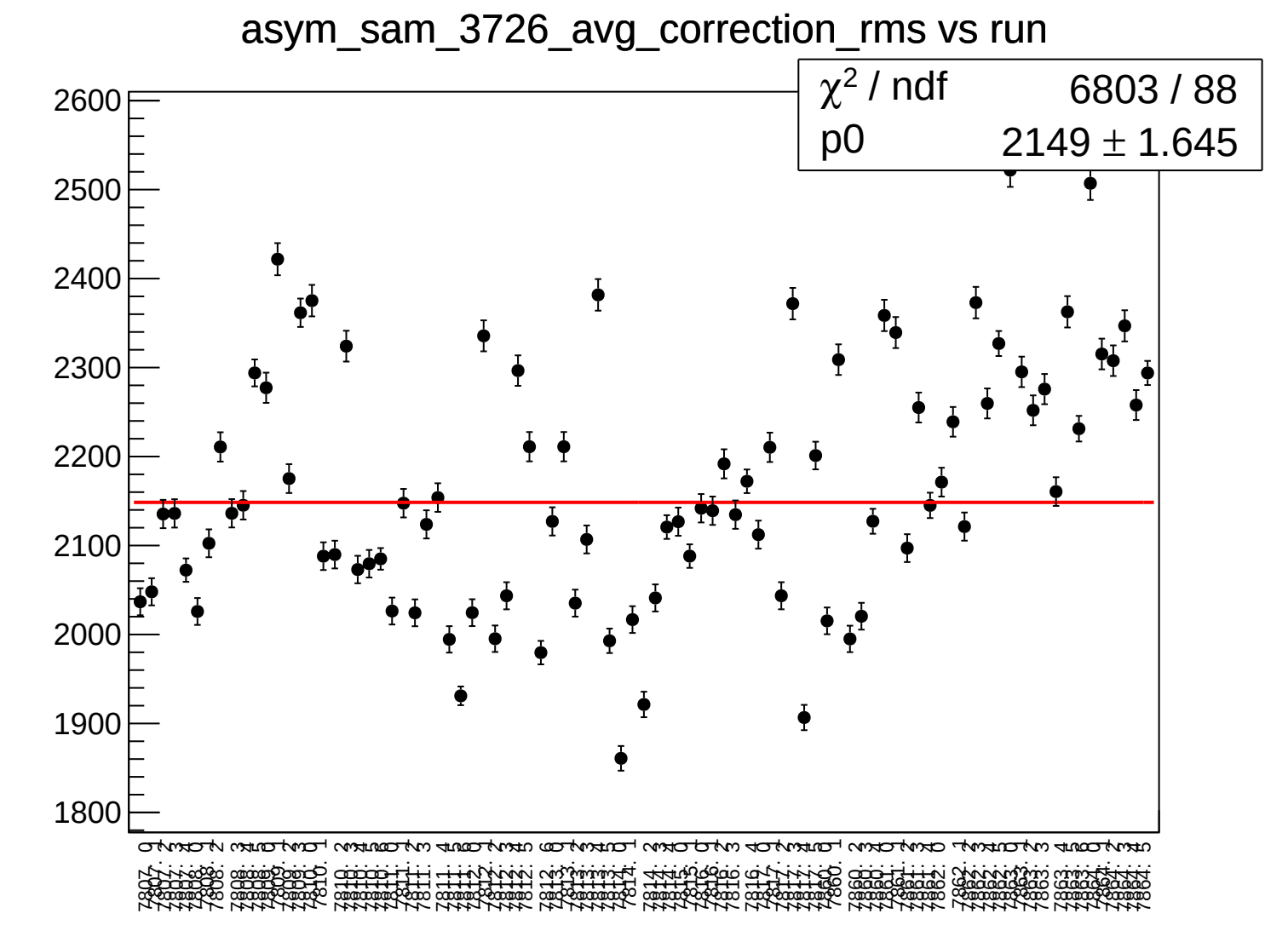

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 84.05 / 88
p0 −193.6 ± 255
pull
Entries 89
Mean −1169
Std Dev 1198

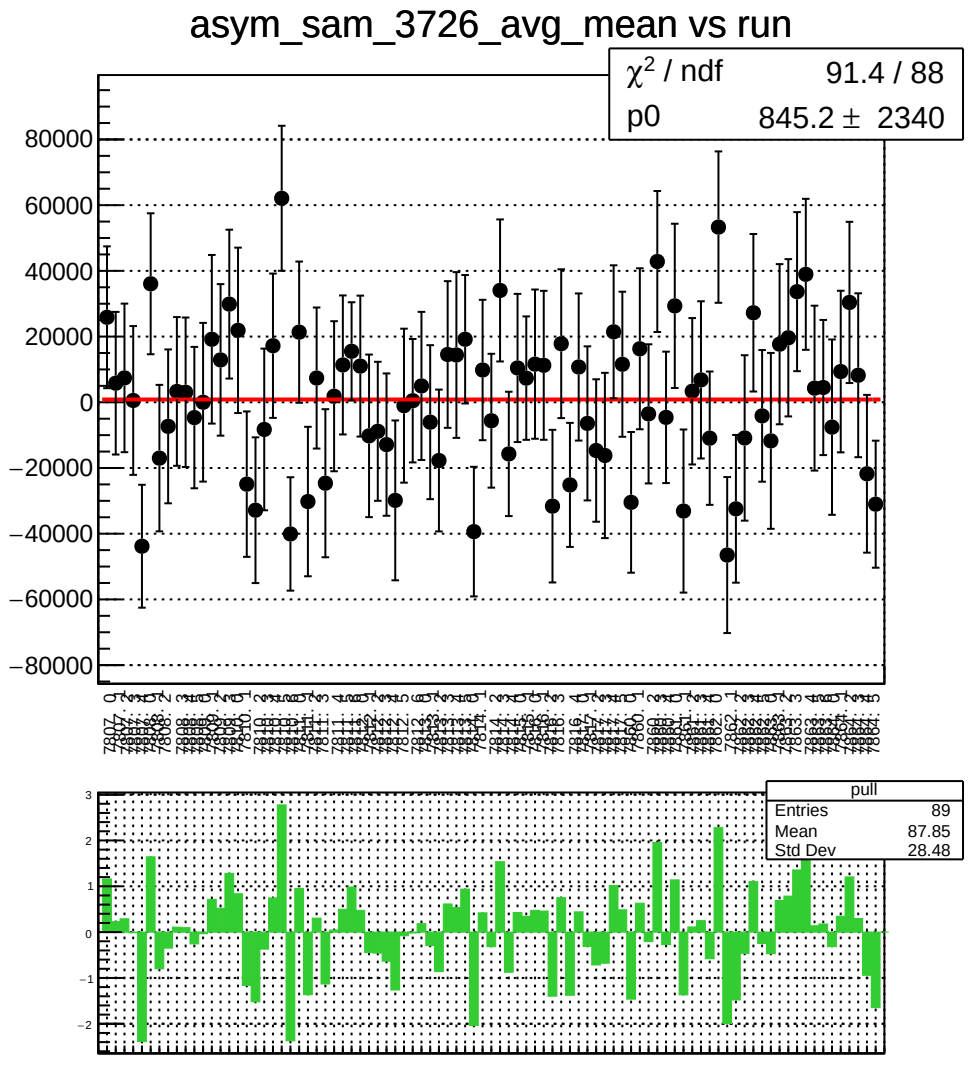

pull1D
Entries 89
Mean 0.0008267
Std Dev 0.9718

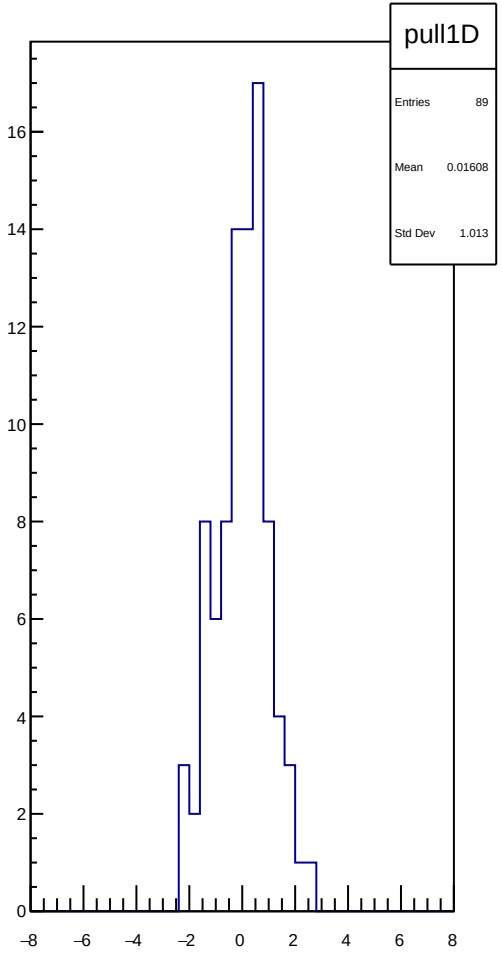

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 2.325e+04 / 88
p0 234.4 ± 0.1803
360
340
320
300
280
260
240
220
200
180

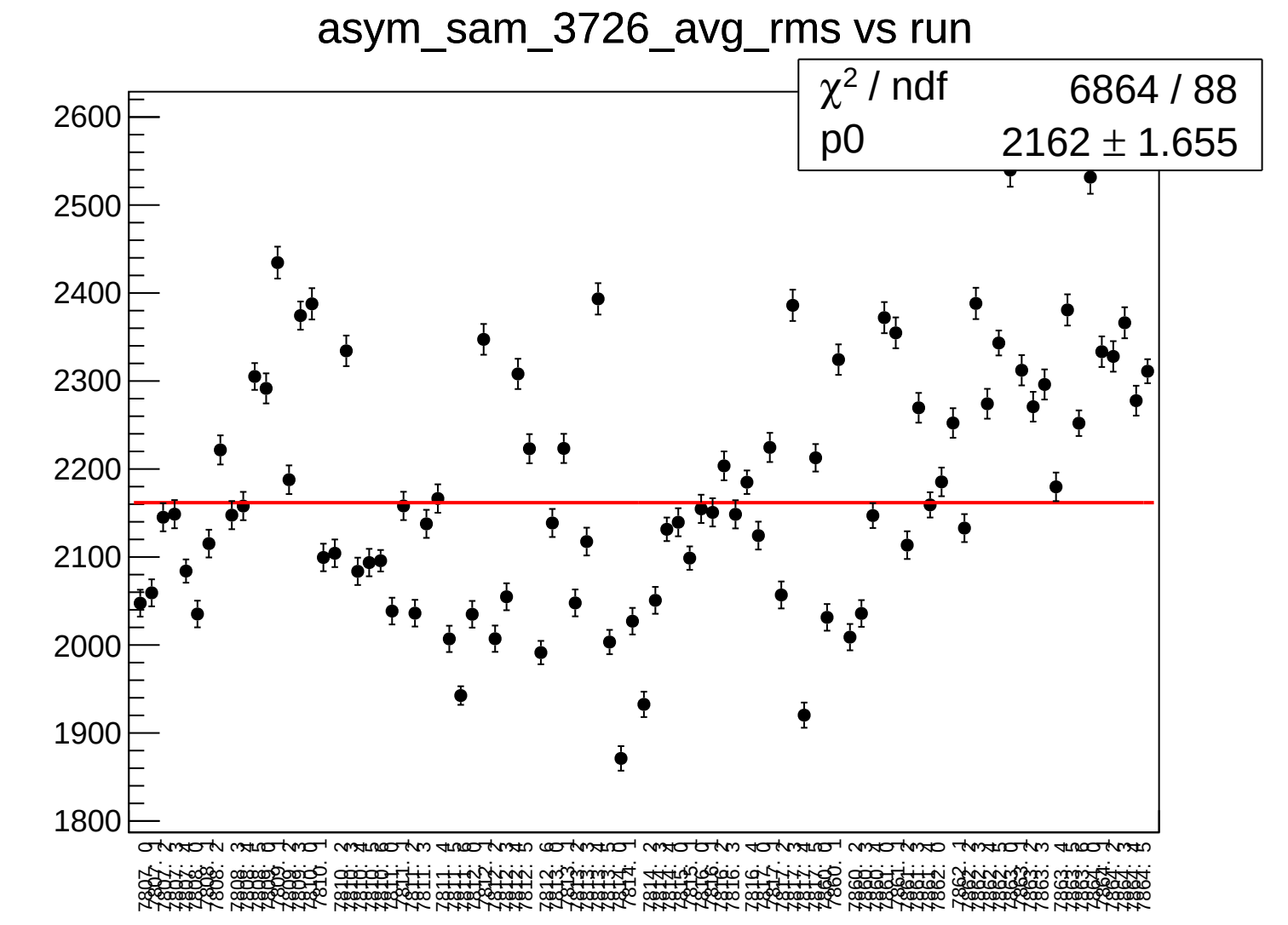

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 93.23 / 88
p0 −1055 ± 2326
pull
Entries 89
Mean 95.54
Std Dev 9.136

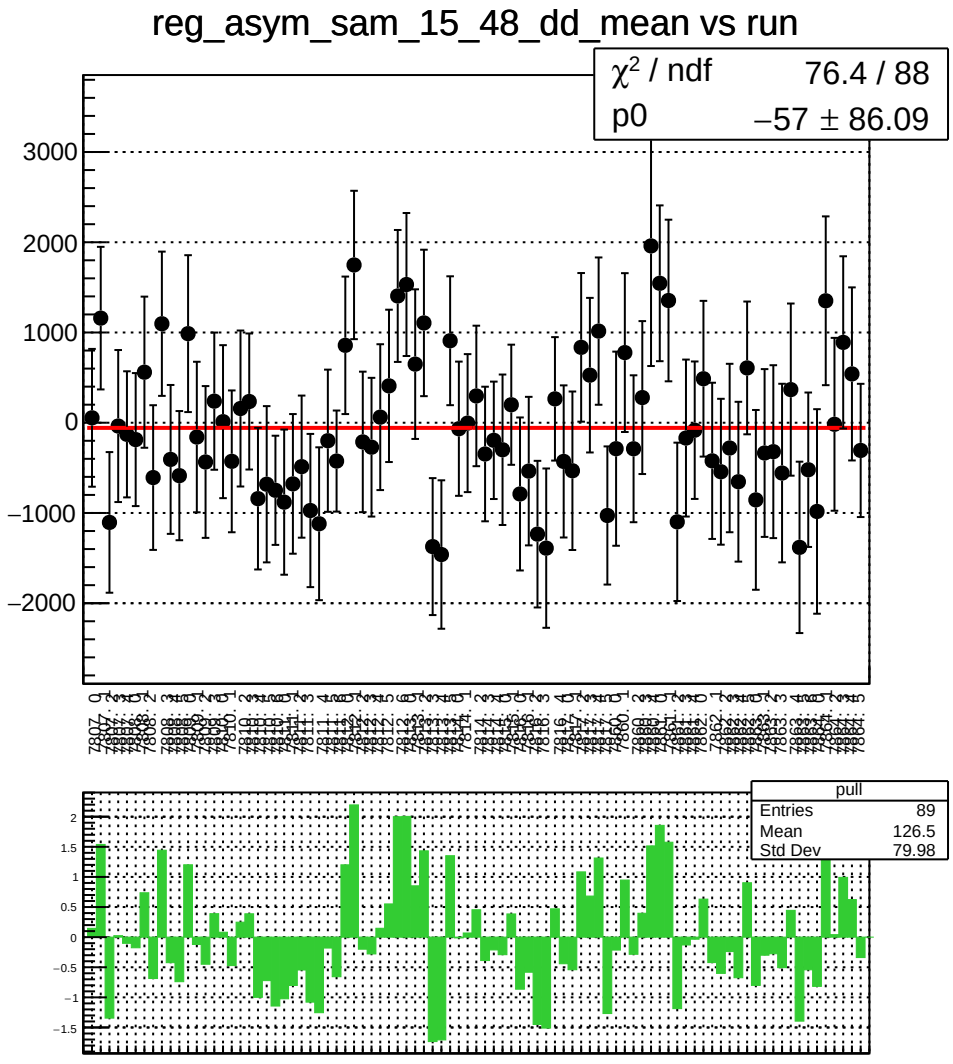

pull1D
Entries 89
Mean −0.01567
Std Dev 1.023

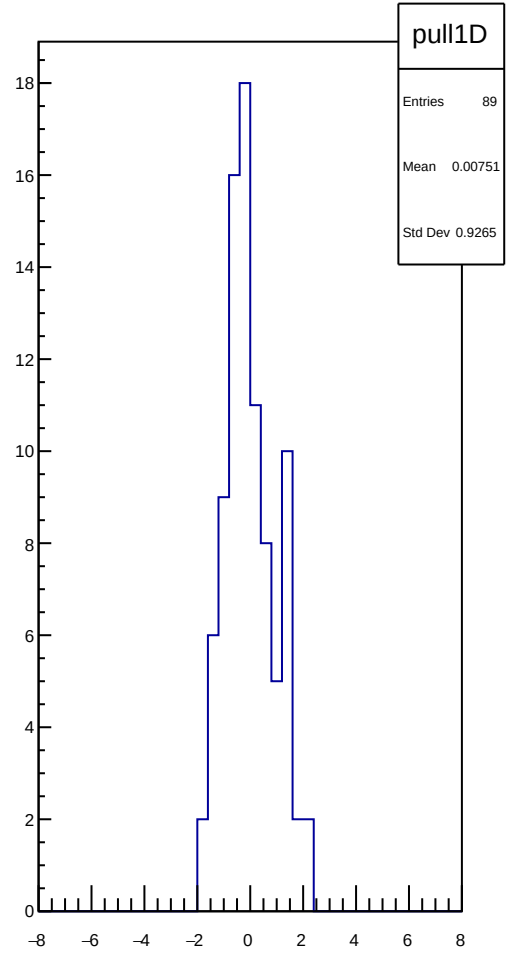

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 6803 / 88
p0 2149 ± 1.645
2600
2500
2400
2300
2200
2100
2000
1900
1800

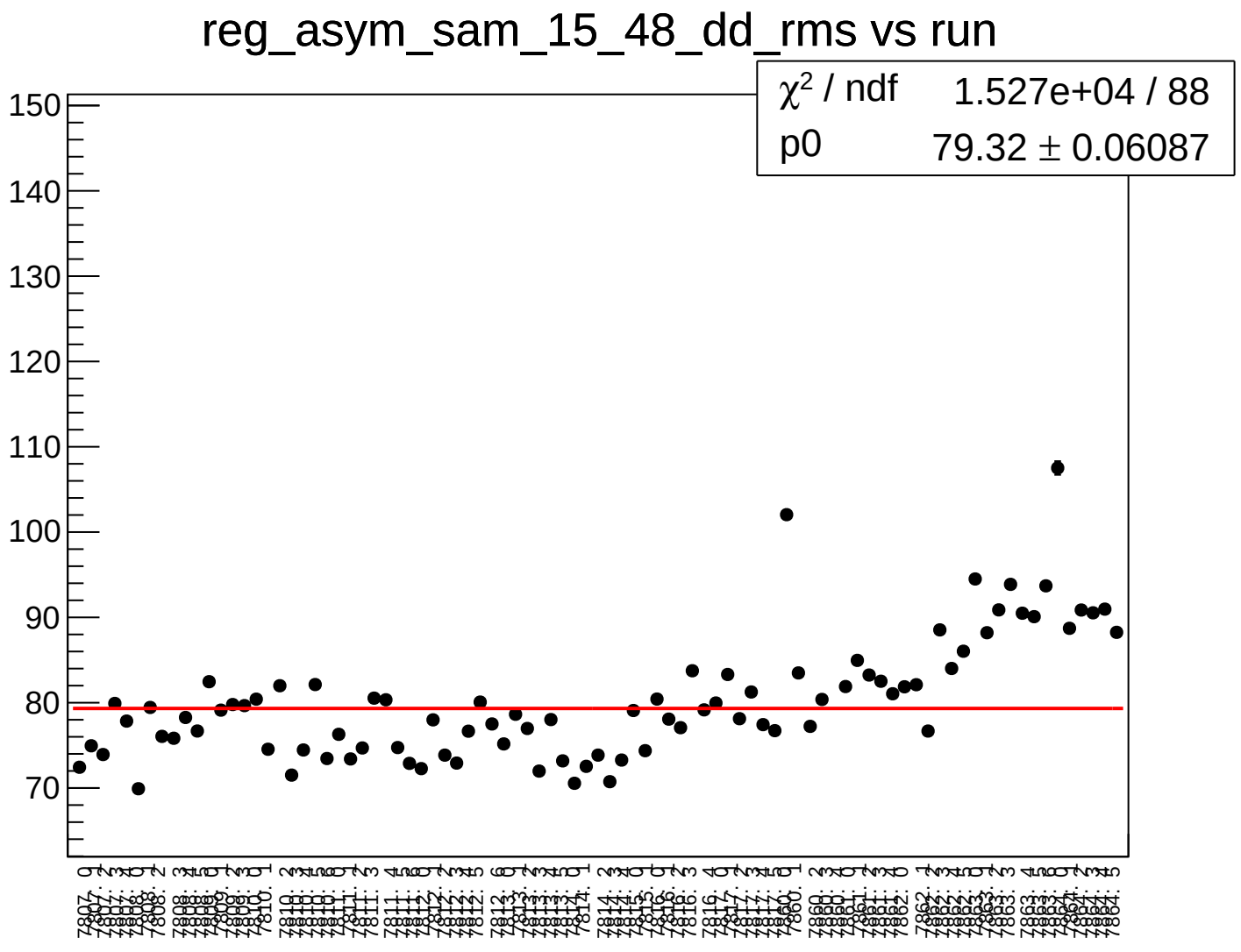

asym_sam_3726_avg_mean vs run
χ² / ndf 91.4 / 88
p0 845.2 ± 2340
pull
Entries 89
Mean 87.85
Std Dev 28.48

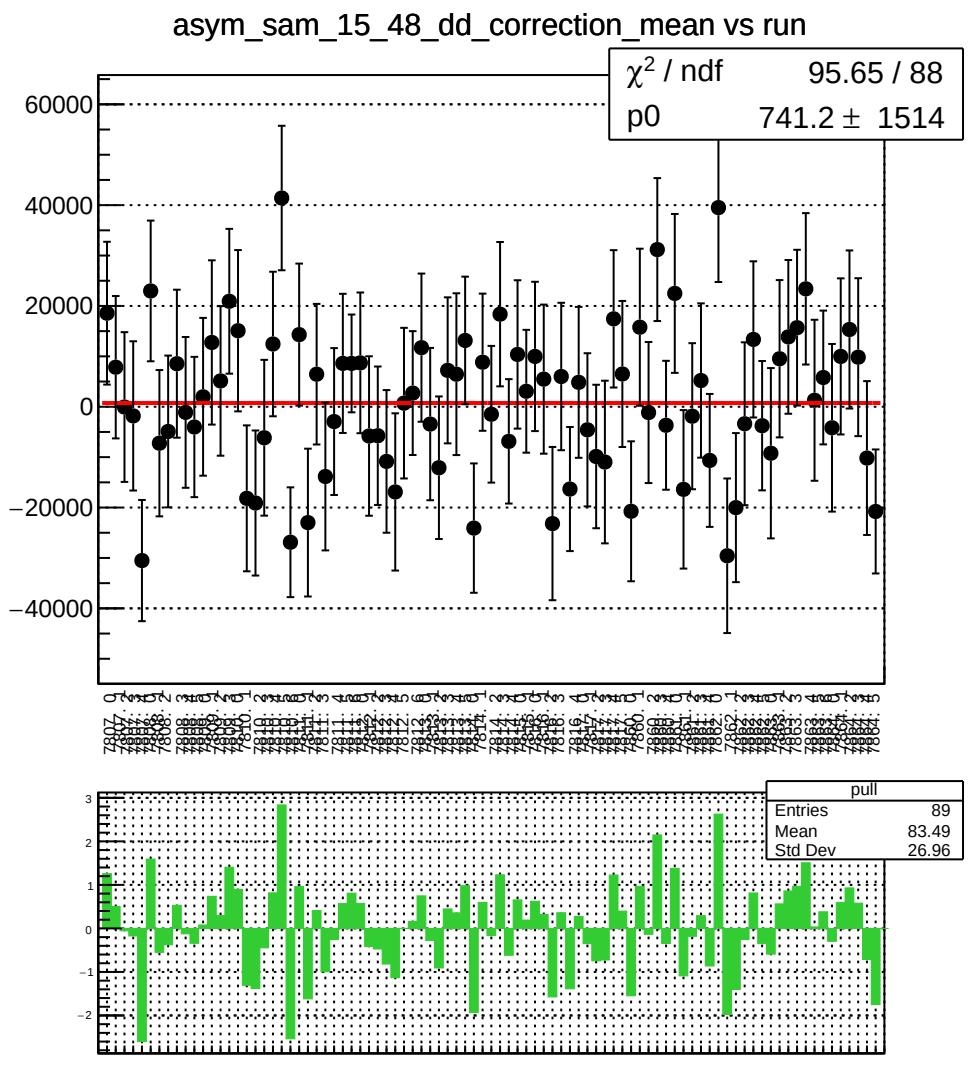

pull1D
Entries 89
Mean 0.01608
Std Dev 1.013

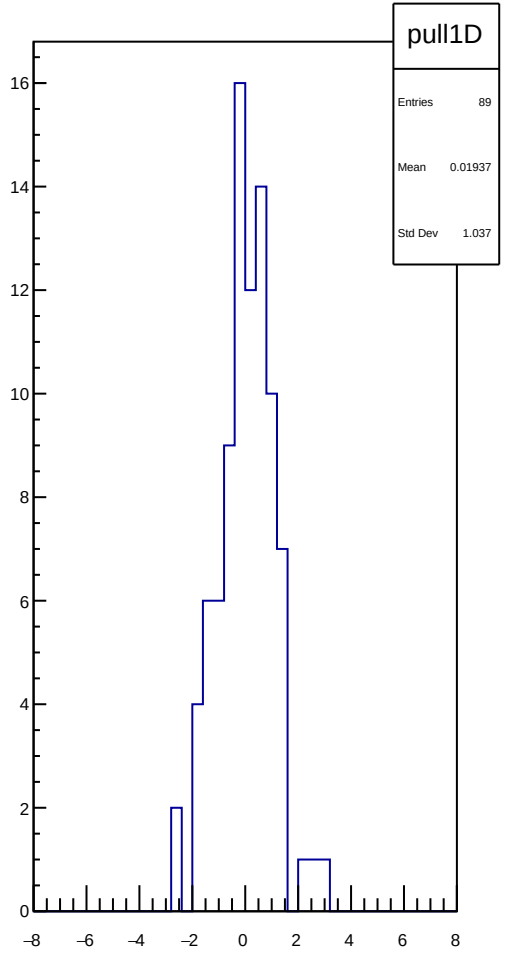

asym_sam_3726_avg_rms vs run
χ² / ndf 6864 / 88
p0 2162 ± 1.655
2600
2500
2400
2300
2200
2100
2000
1900
1800

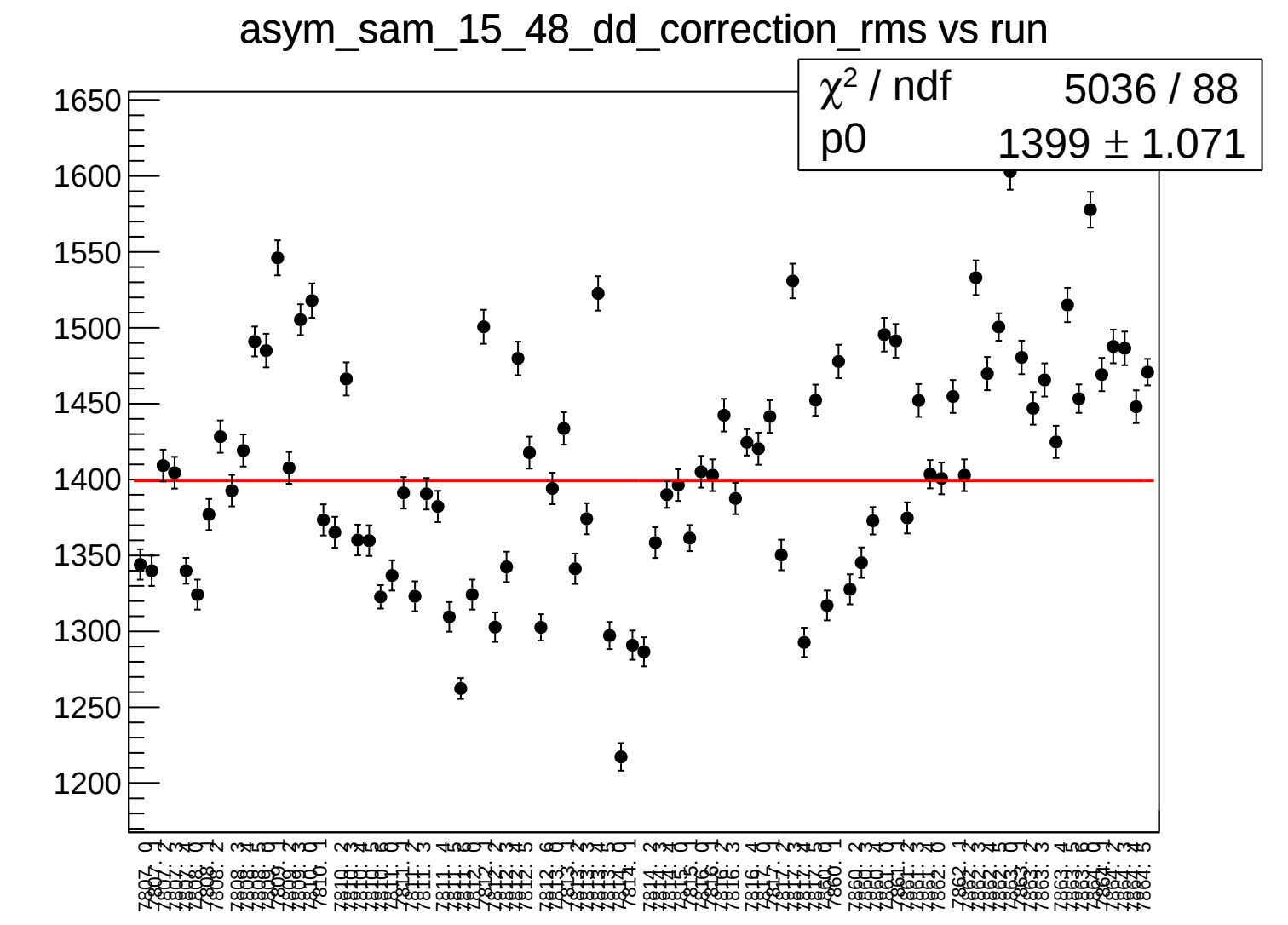

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 76.4 / 88
p0 −57 ± 86.09
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 126.5
Std Dev 79.98
2
1.5
1
0.5
0
−0.5
−1
−1.5

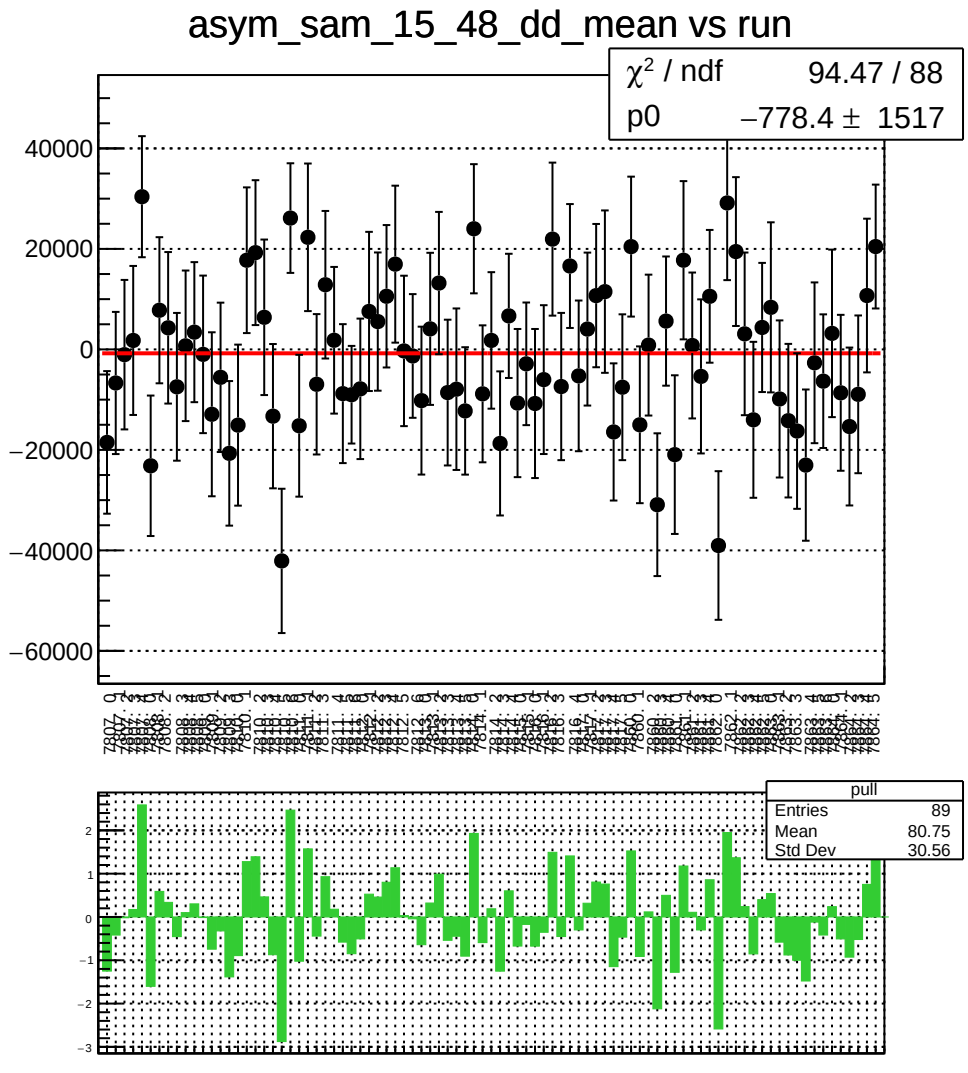

pull1D
Entries 89
Mean 0.00751
Std Dev 0.9265
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

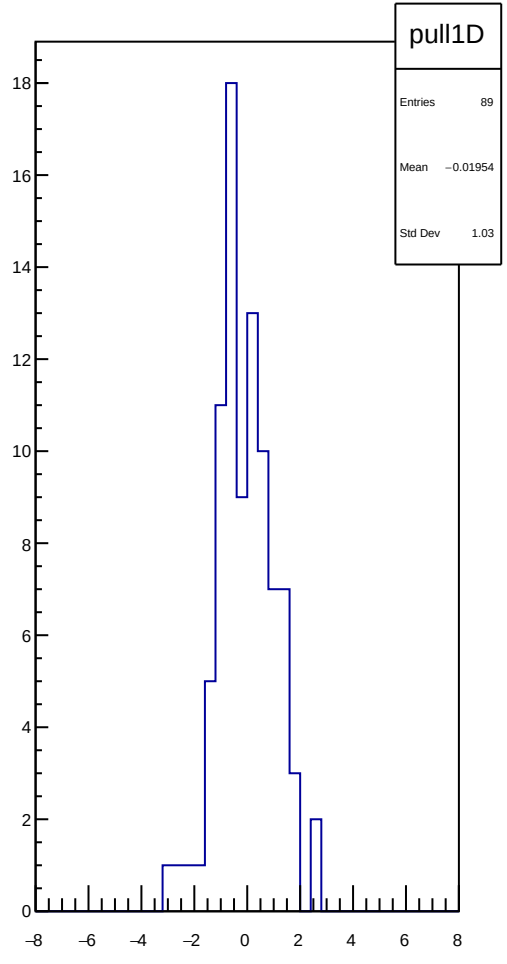

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.527e+04 / 88
p0 79.32 ± 0.06087
150
140
130
120
110
100
90
80
70

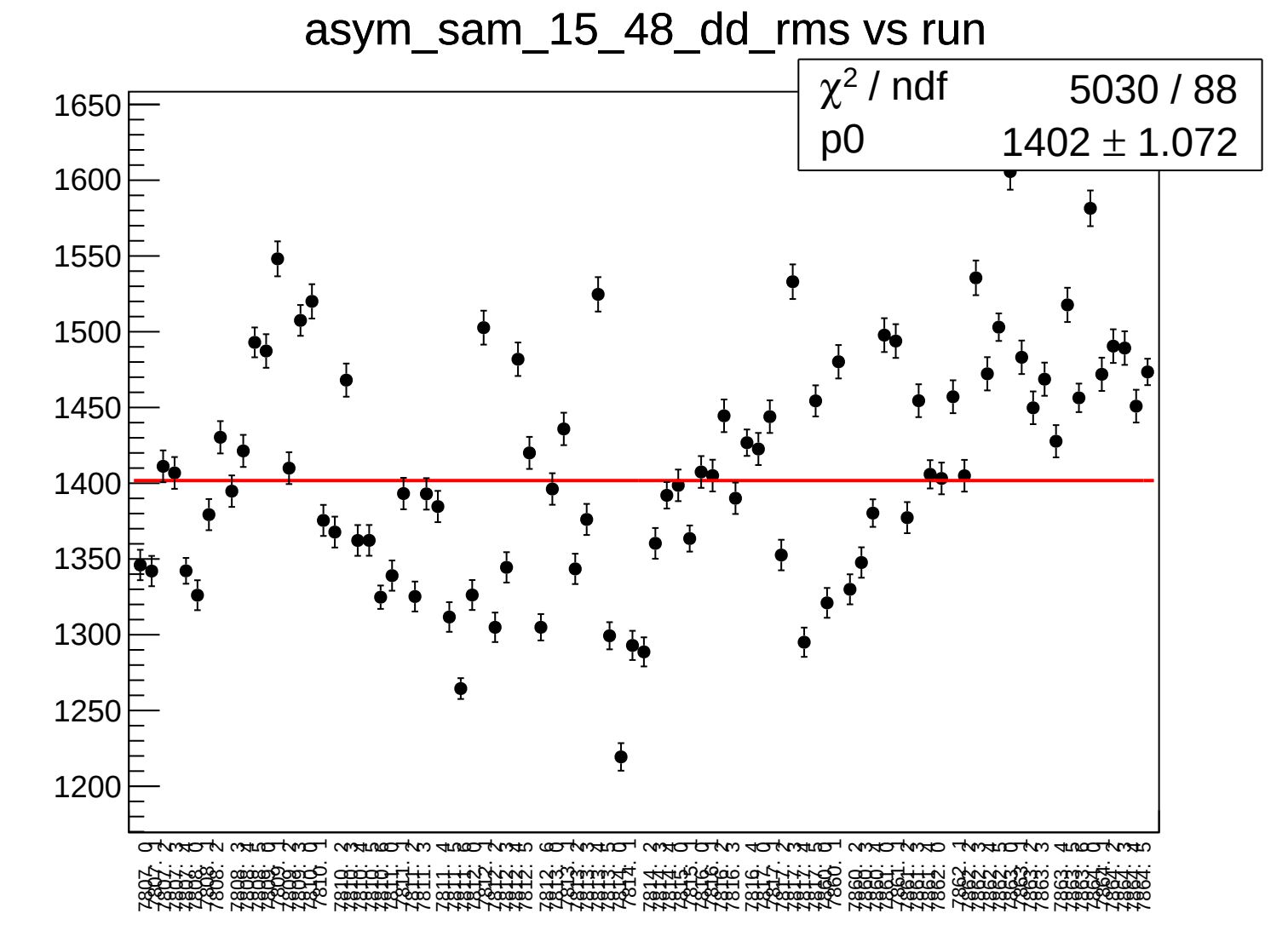

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 95.65 / 88
p0 741.2 ± 1514
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 83.49
Std Dev 26.96
3
2
1
0
−1
−2

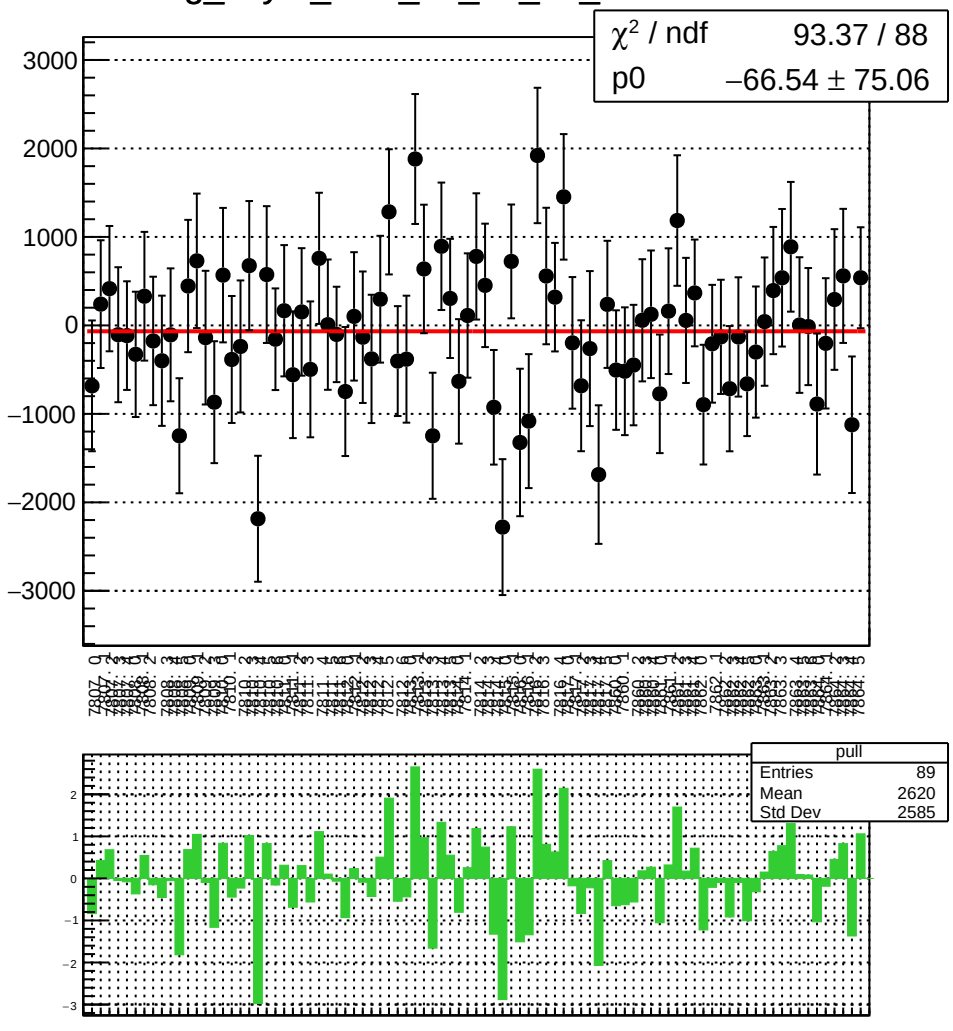

pull1D
Entries 89
Mean 0.01937
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

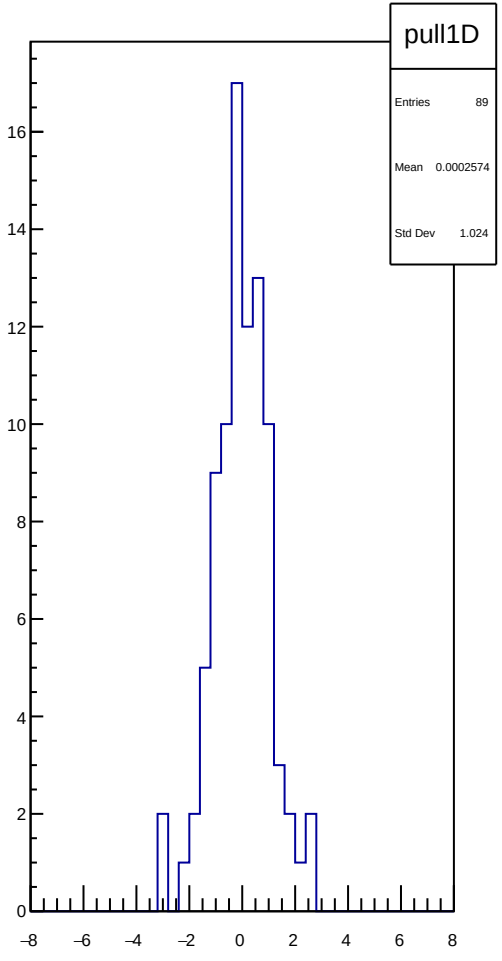

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 5036 / 88
p0 1399 ± 1.071
1650
1600
1550
1500
1450
1400
1350
1300
1250
1200

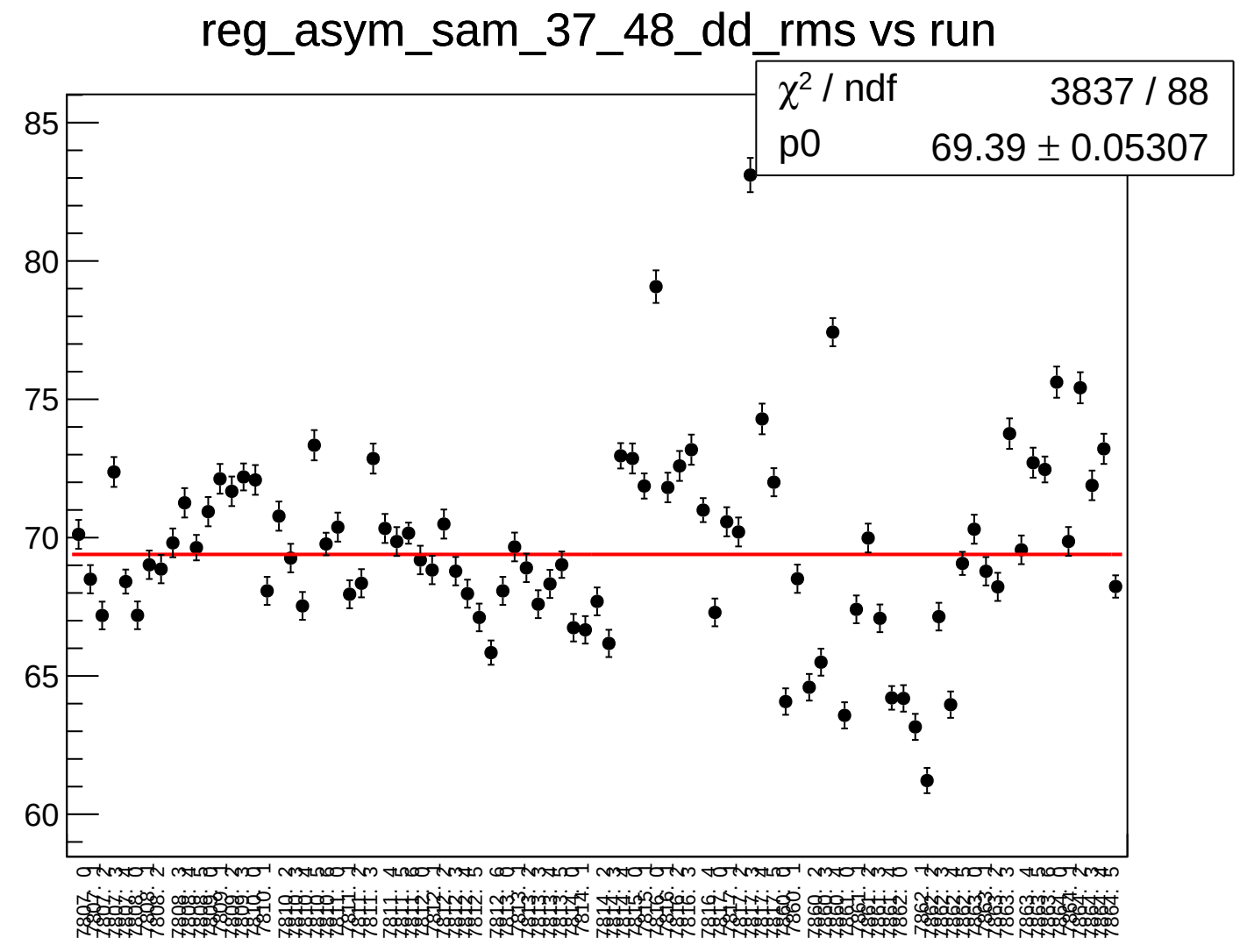

asym_sam_15_48_dd_mean vs run
χ² / ndf 94.47 / 88
p0 −778.4 ± 1517
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 80.75
Std Dev 30.56
2
1
0
−1
−2
−3

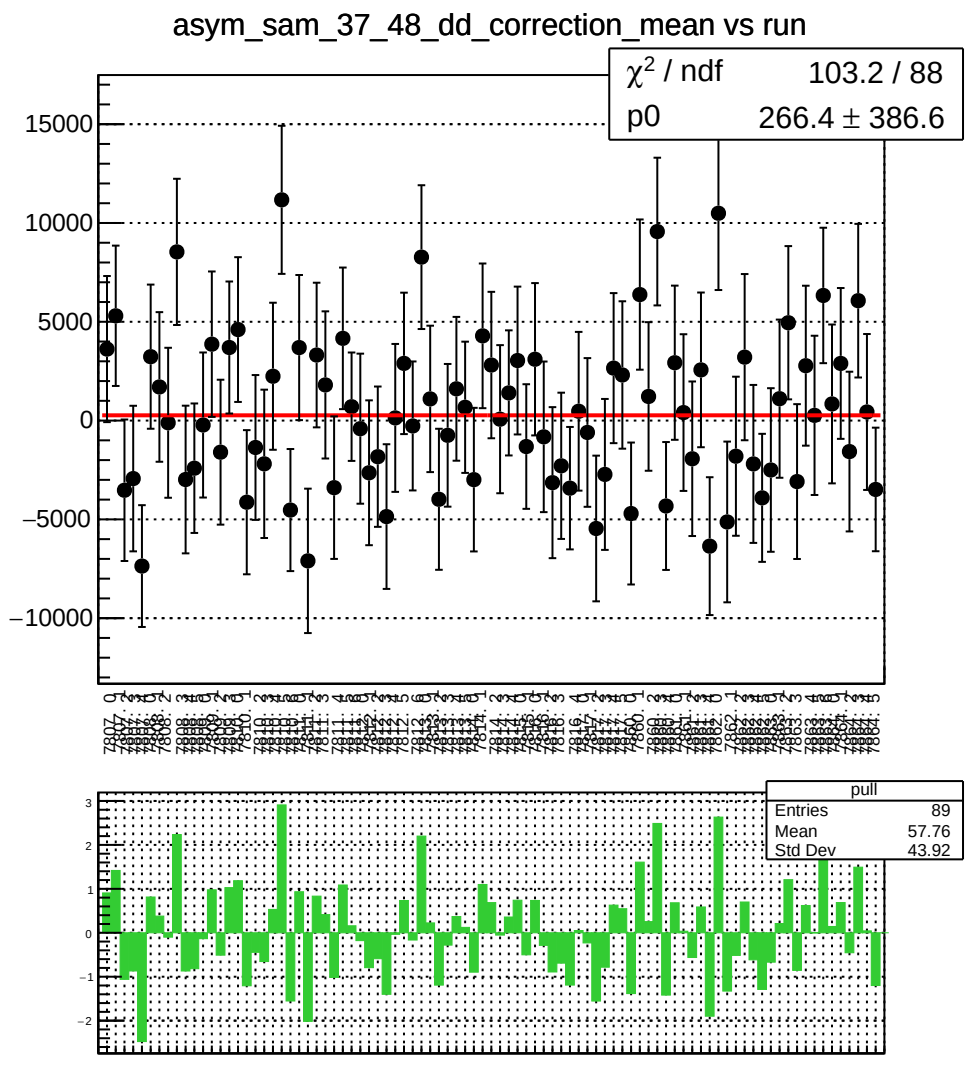

pull1D
Entries 89
Mean −0.01954
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

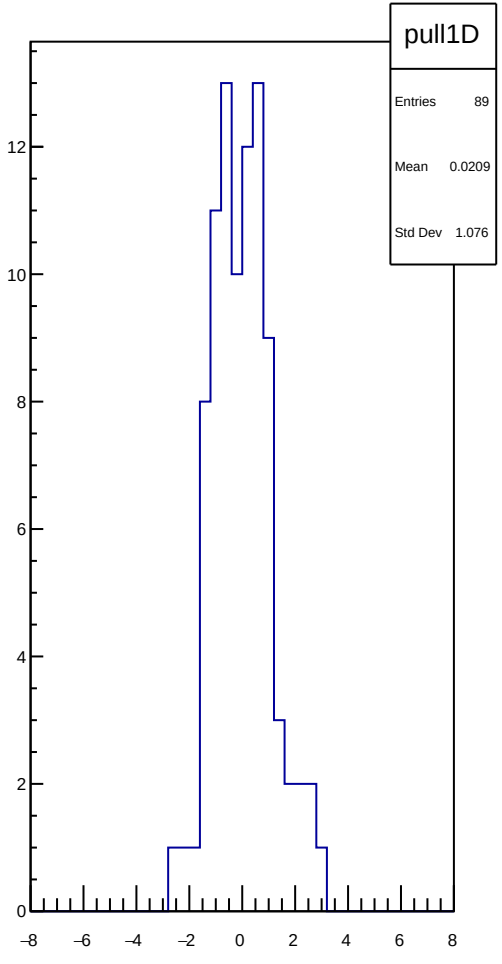

asym_sam_15_48_dd_rms vs run
χ² / ndf 5030 / 88
p0 1402 ± 1.072
1650
1600
1550
1500
1450
1400
1350
1300
1250
1200

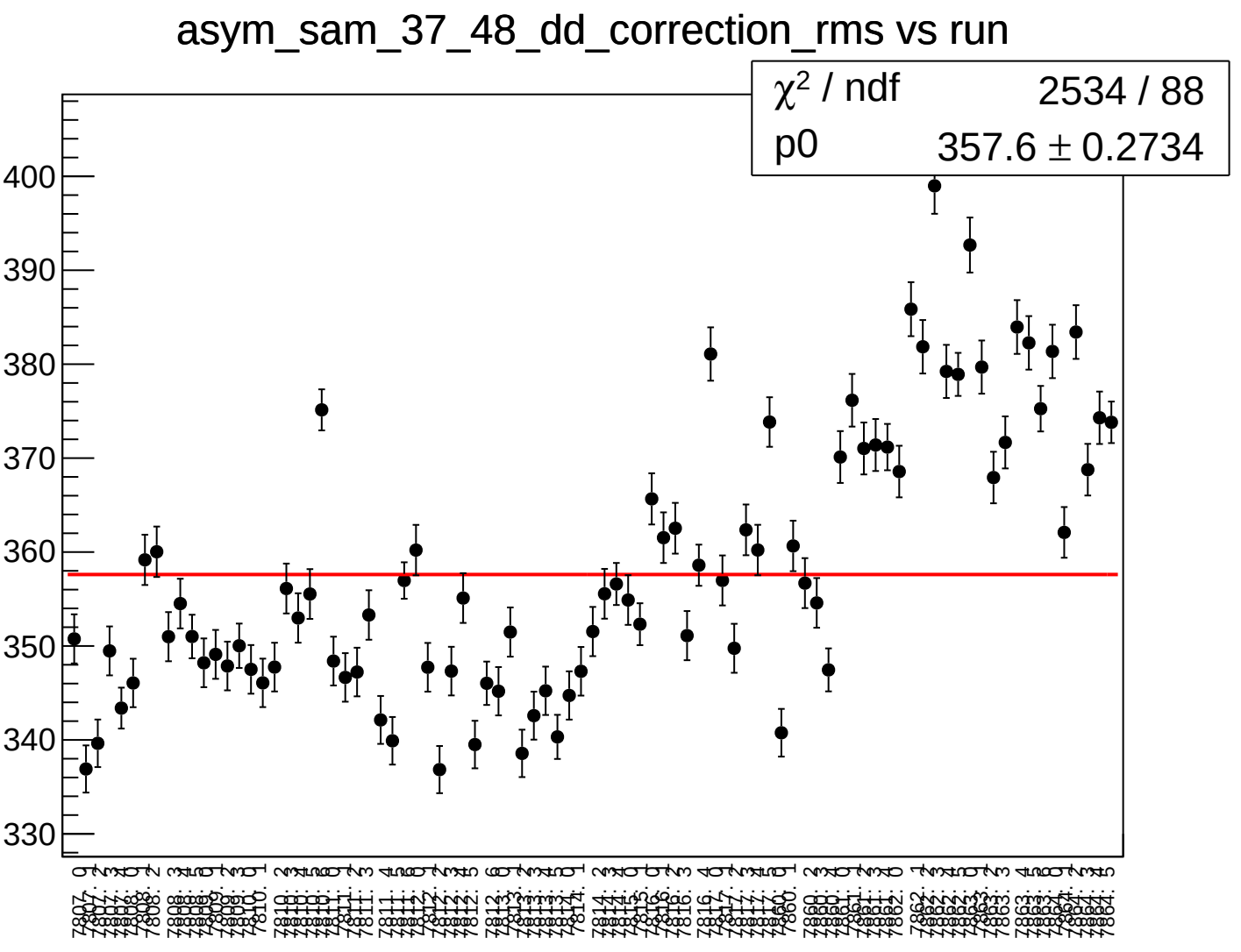

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 93.37 / 88
p0 −66.54 ± 75.06
pull
Entries 89
Mean 2620
Std Dev 2585

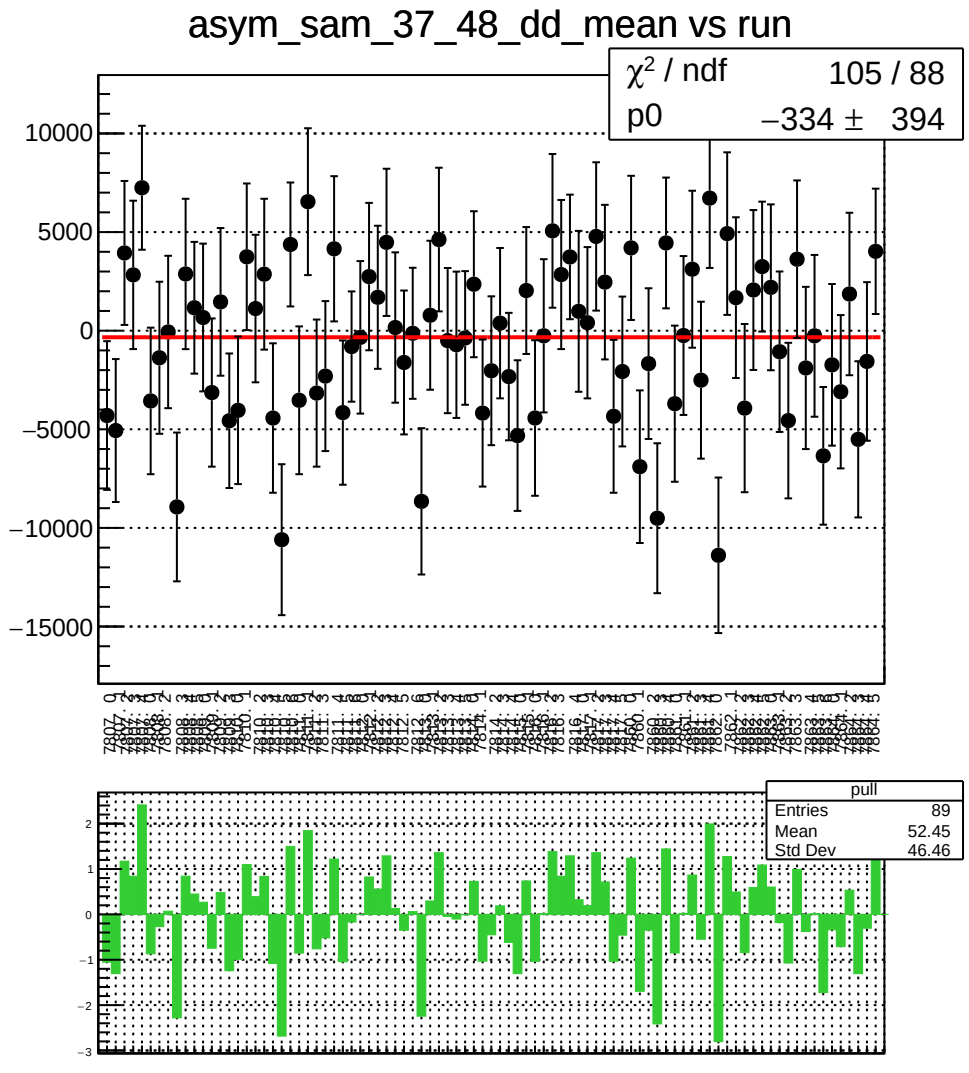

pull1D
Entries 89
Mean 0.0002574
Std Dev 1.024

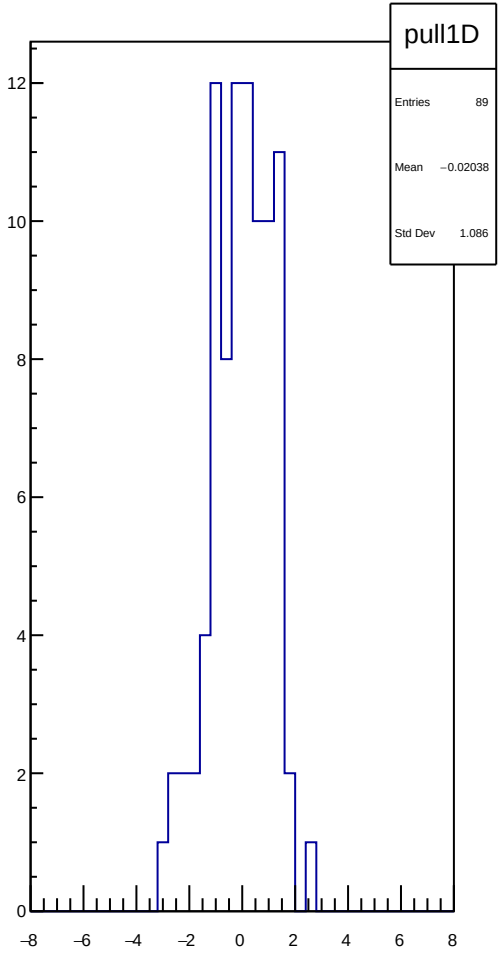

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 3837 / 88
p0 69.39 ± 0.05307
85
80
75
70
65
60

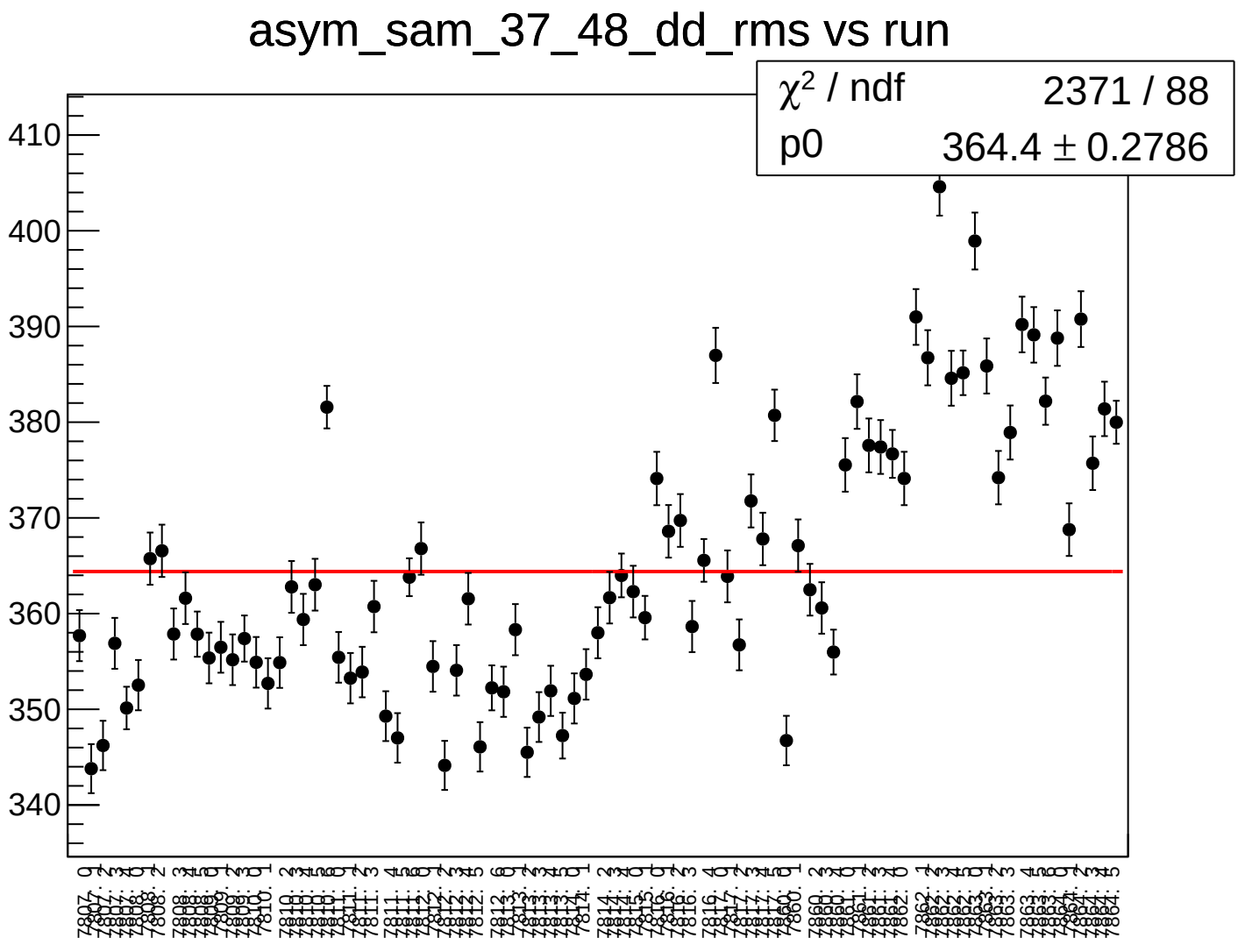

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 103.2 / 88
p0 266.4 ± 386.6
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 57.76
Std Dev 43.92
3
2
1
0
−1
−2

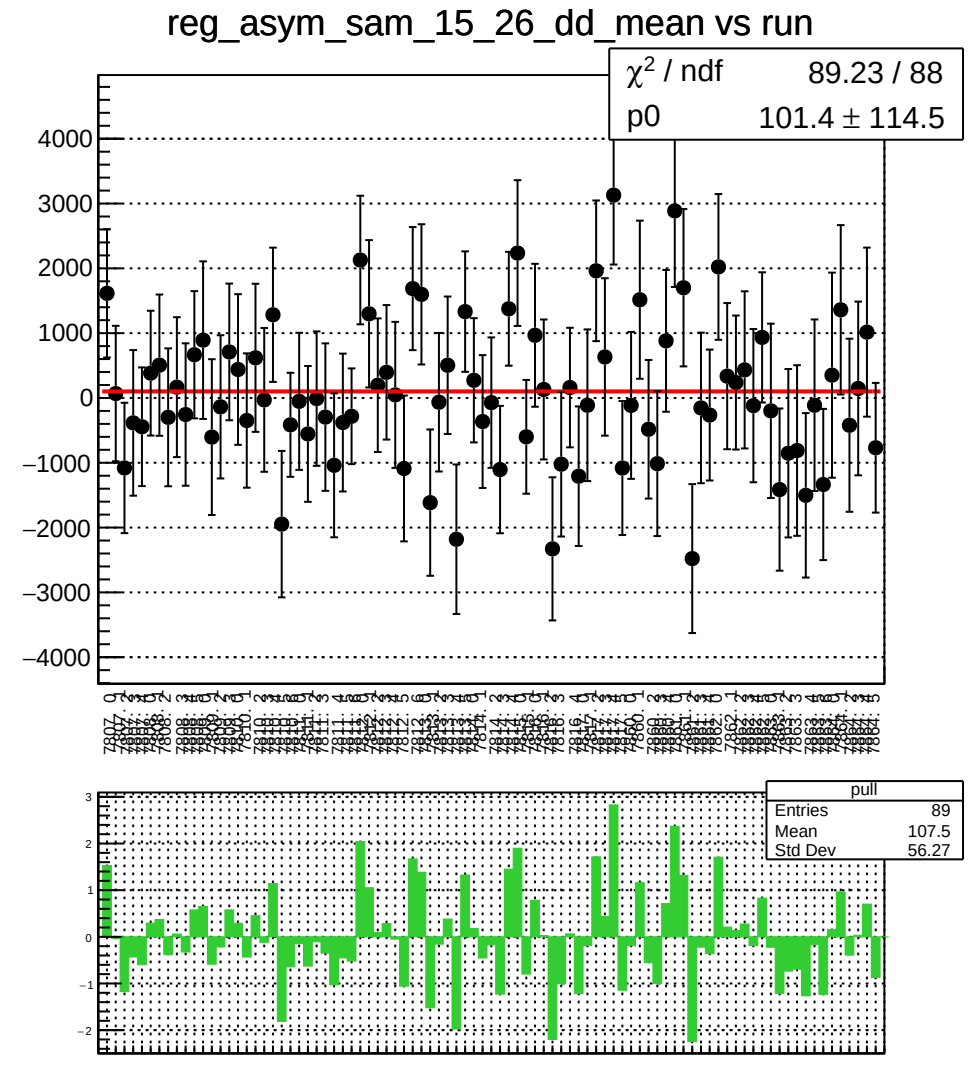

pull1D
Entries 89
Mean 0.0209
Std Dev 1.076
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

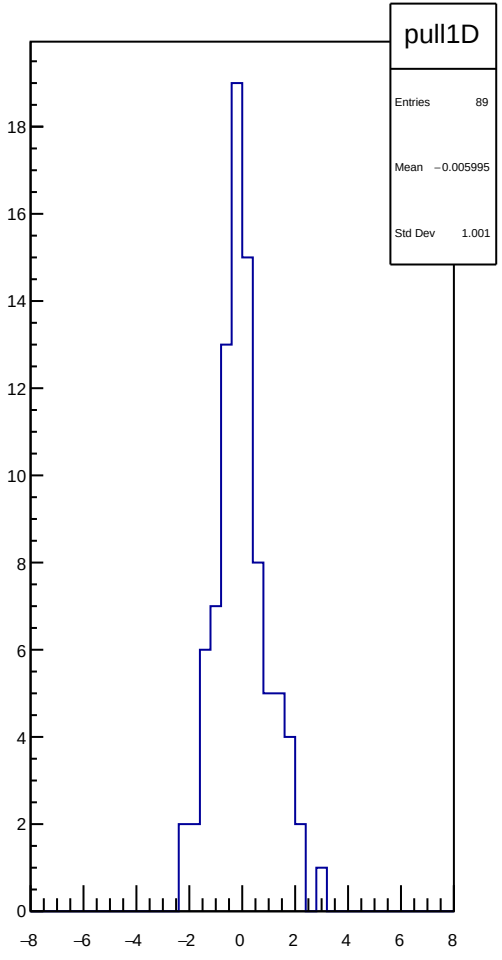

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 2534 / 88
p0 357.6 ± 0.2734
400
390
380
370
360
350
340
330

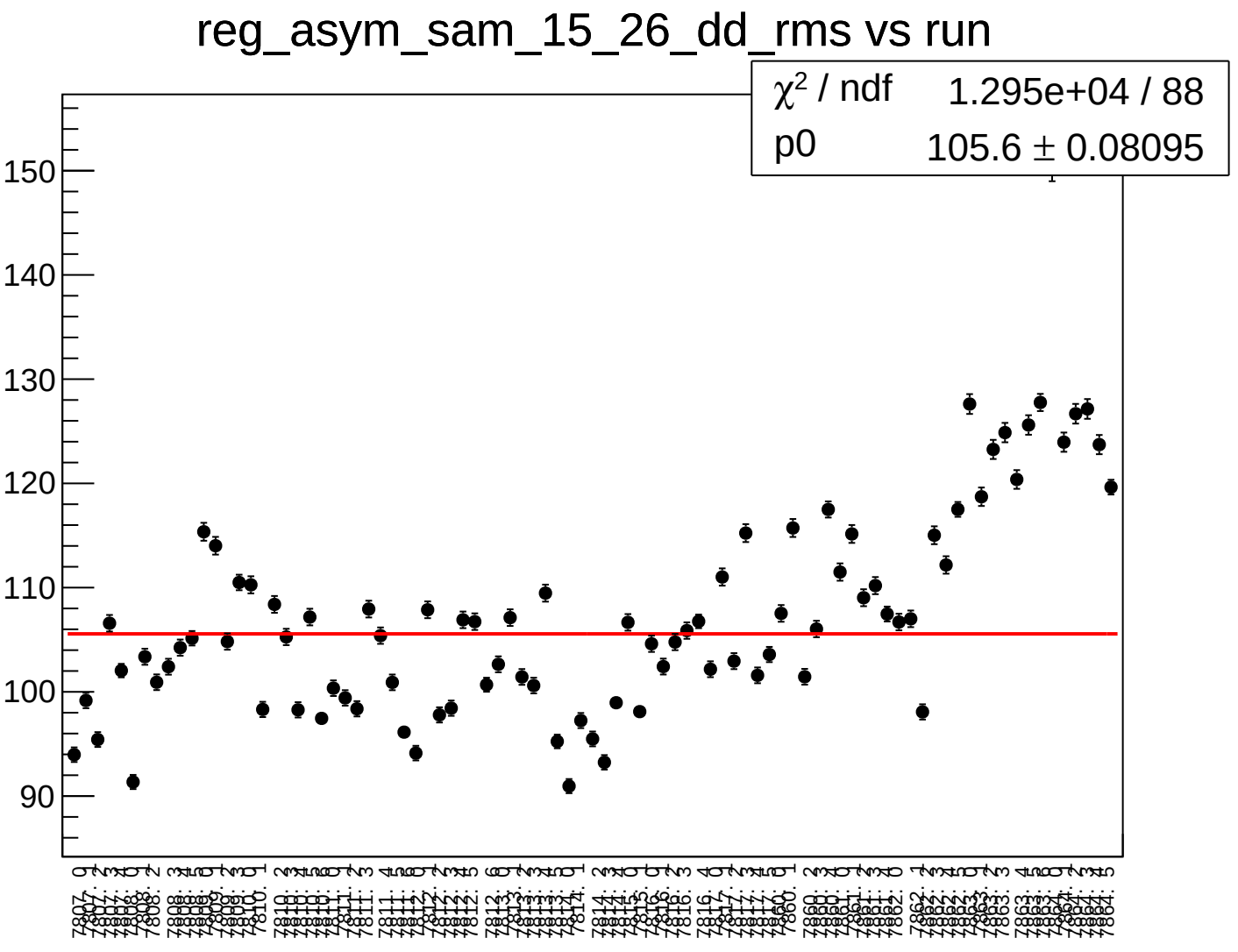

asym_sam_37_48_dd_mean vs run
χ² / ndf 105 / 88
p0 −334 ± 394
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 52.45
Std Dev 46.46
2
1
0
−1
−2
−3

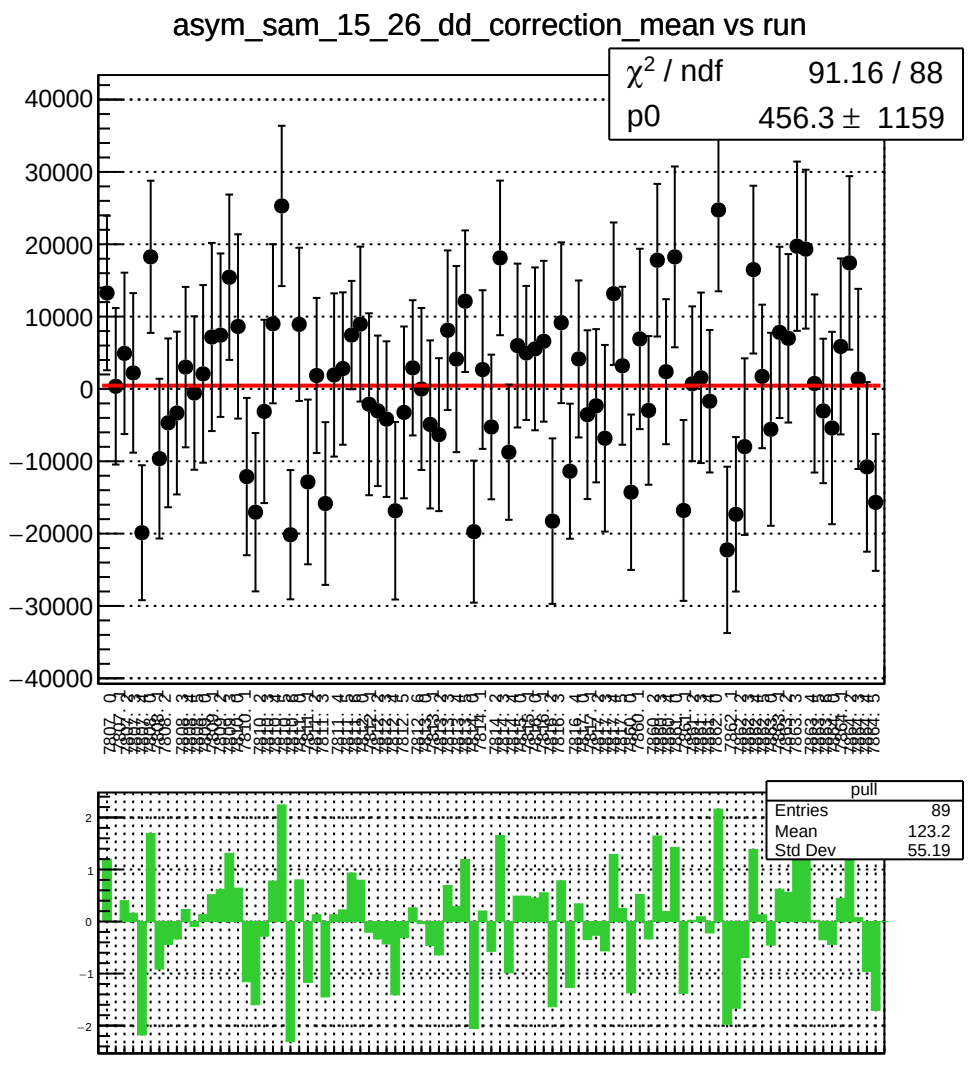

pull1D
Entries 89
Mean −0.02038
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

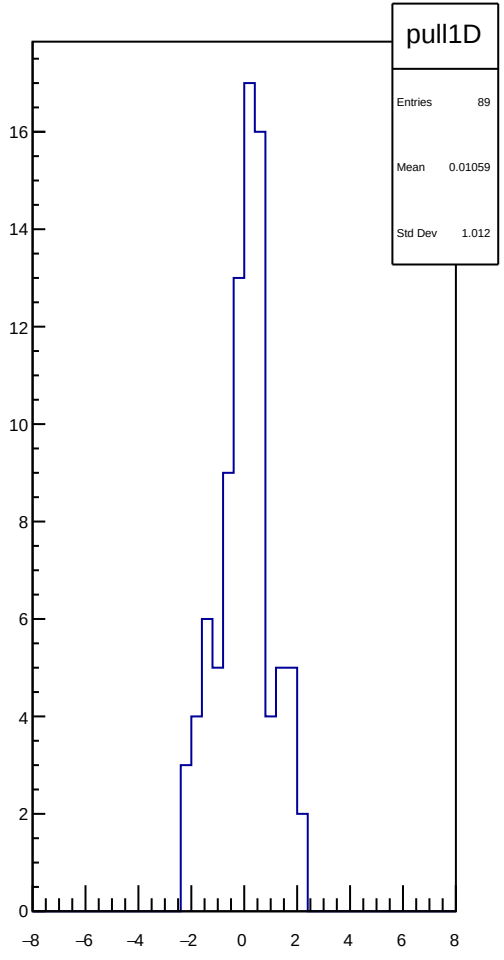

asym_sam_37_48_dd_rms vs run
χ² / ndf 2371 / 88
p0 364.4 ± 0.2786
410
400
390
380
370
360
350
340

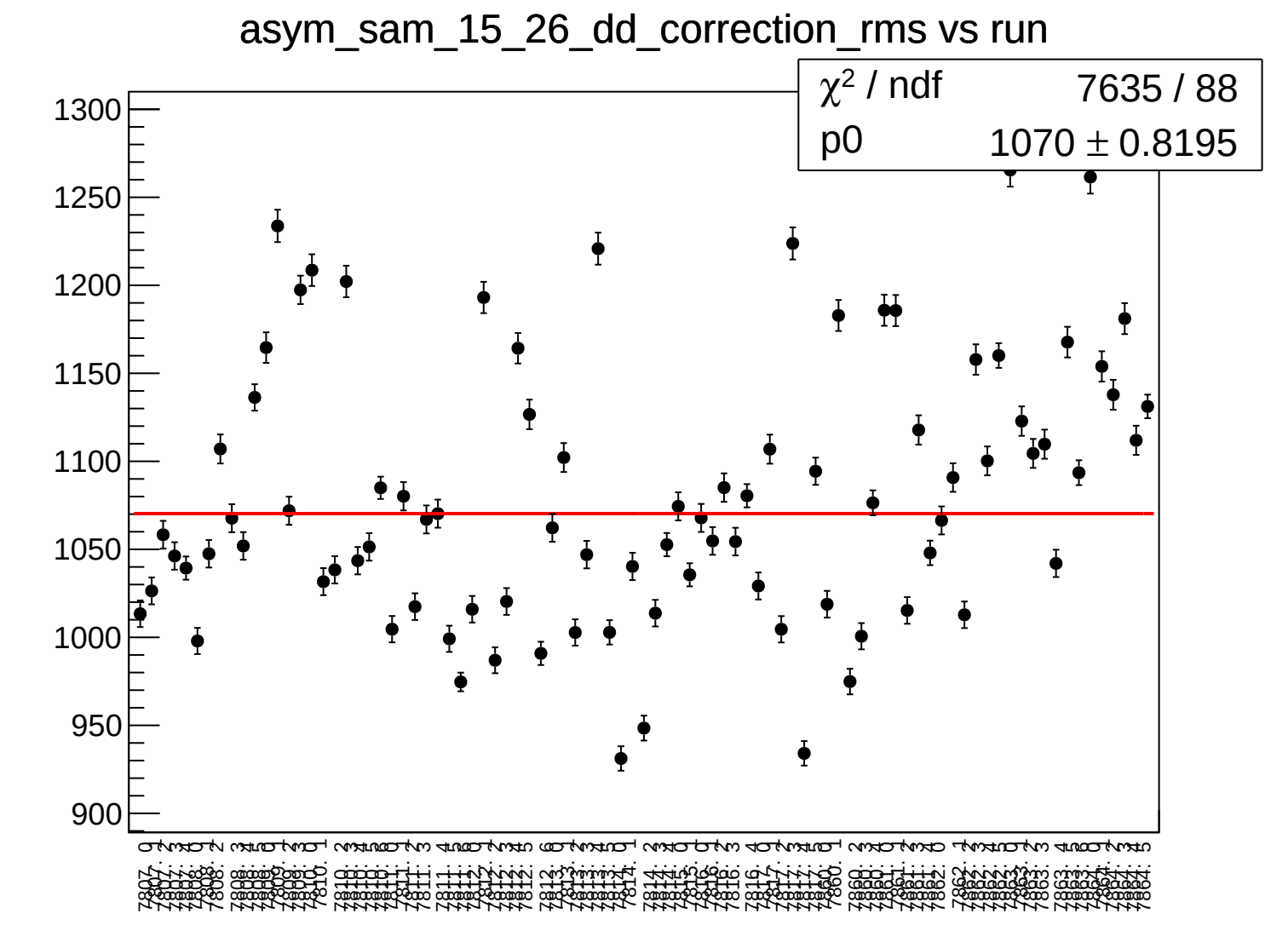

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 89.23 / 88
p0 101.4 ± 114.5
pull
Entries 89
Mean 107.5
Std Dev 56.27

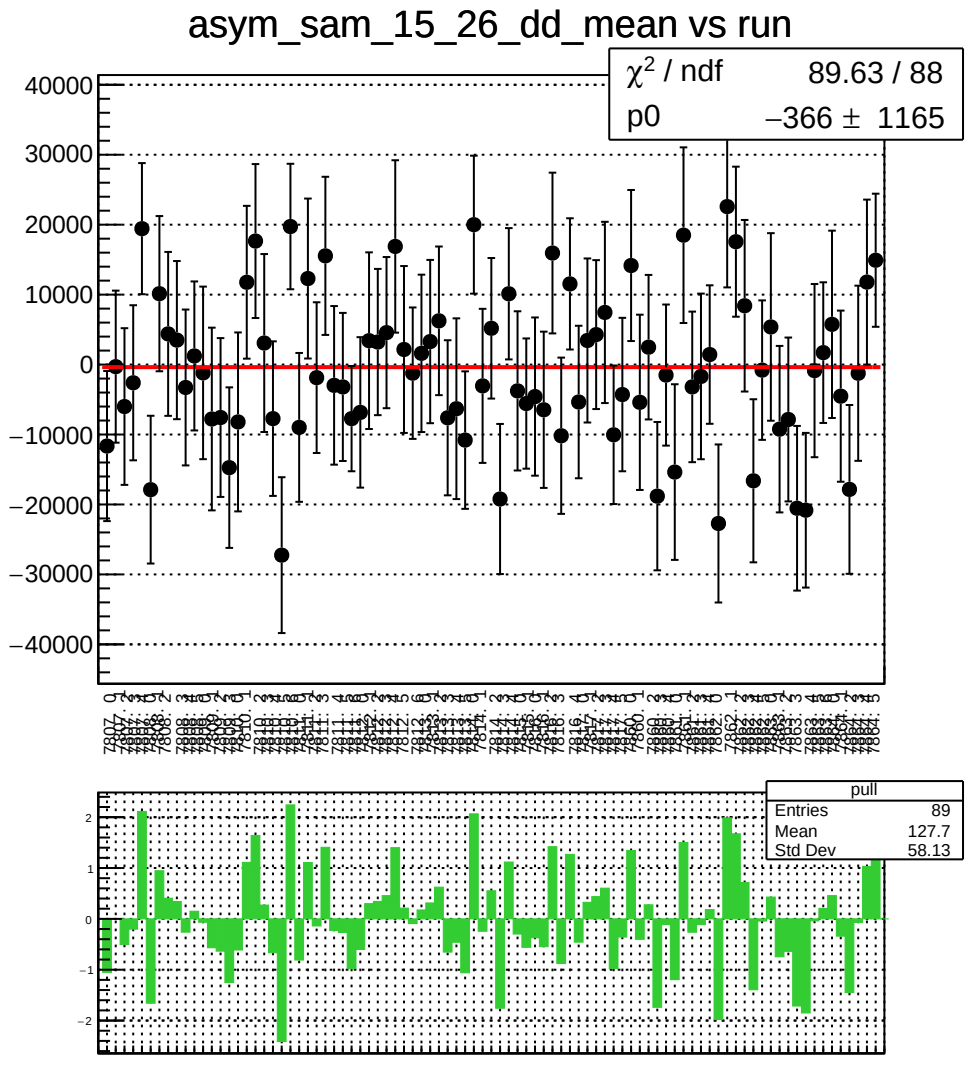

pull1D
Entries 89
Mean −0.005995
Std Dev 1.001

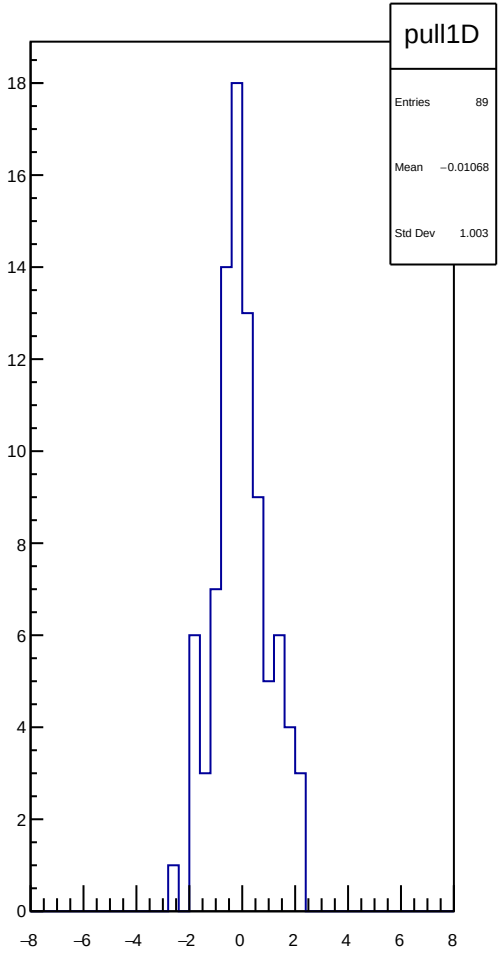

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.295e+04 / 88
p0 105.6 ± 0.08095
150
140
130
120
110
100
90

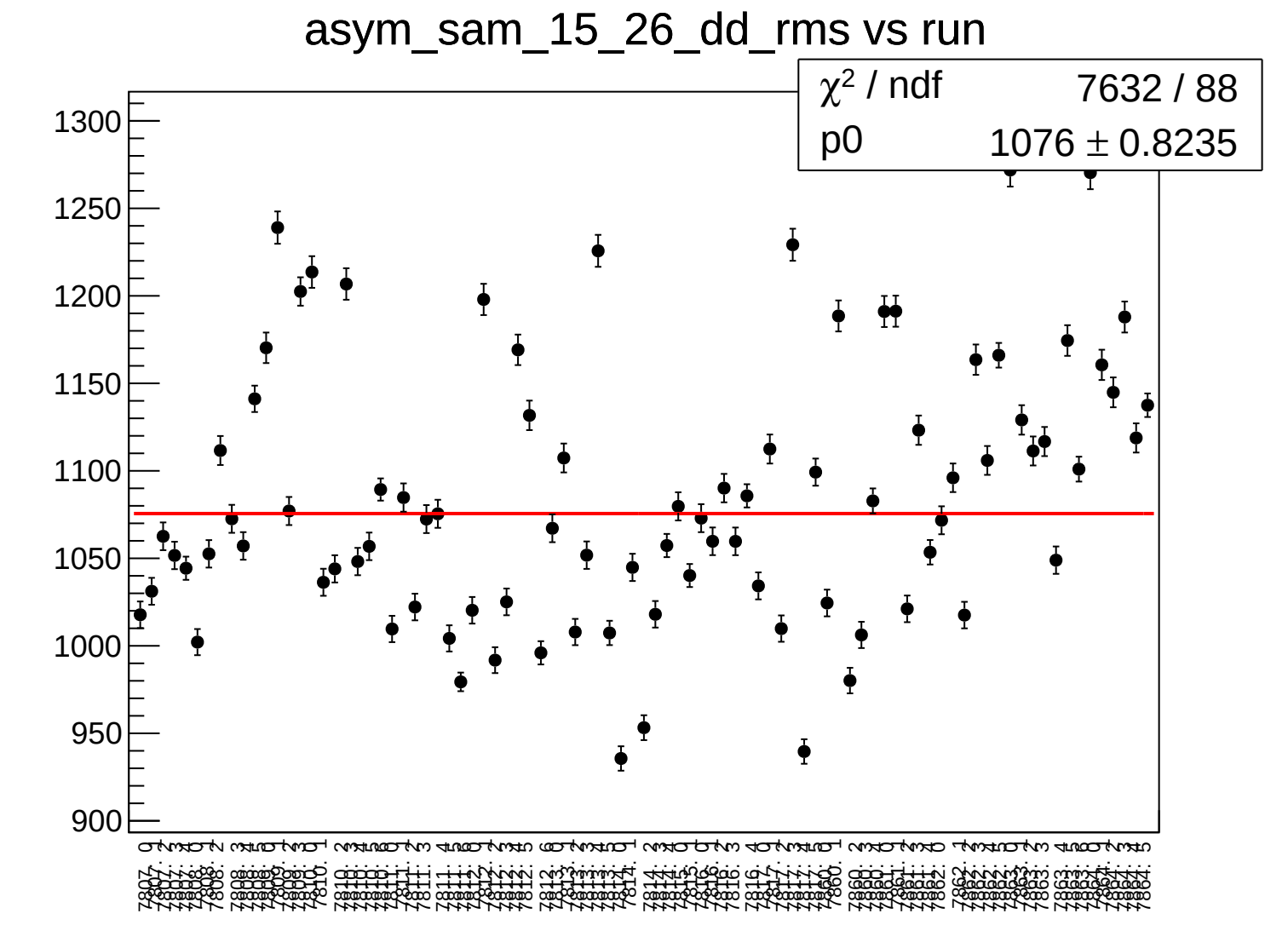

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 91.16 / 88
p0 456.3 ± 1159
pull
Entries 89
Mean 123.2
Std Dev 55.19

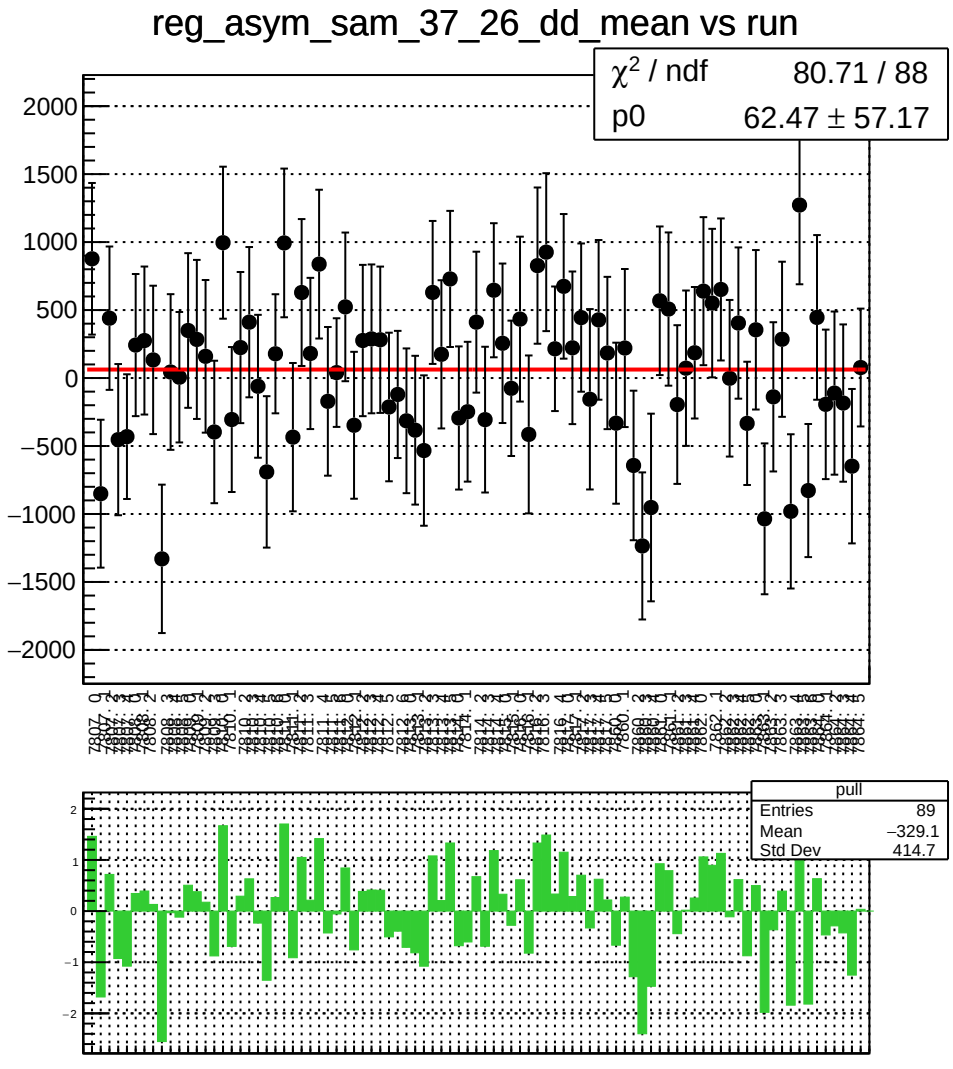

pull1D
Entries 89
Mean 0.01059
Std Dev 1.012

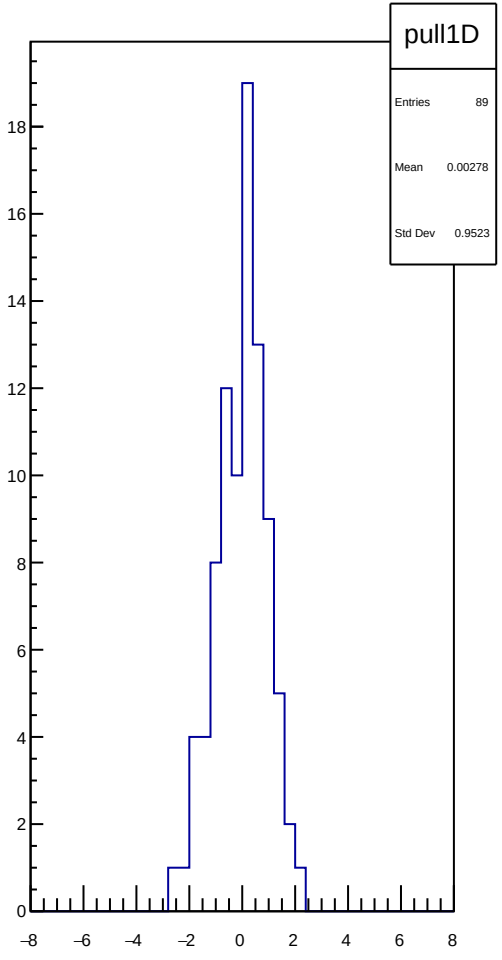

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 7635 / 88
p0 1070 ± 0.8195
1300
1250
1200
1150
1100
1050
1000
950
900

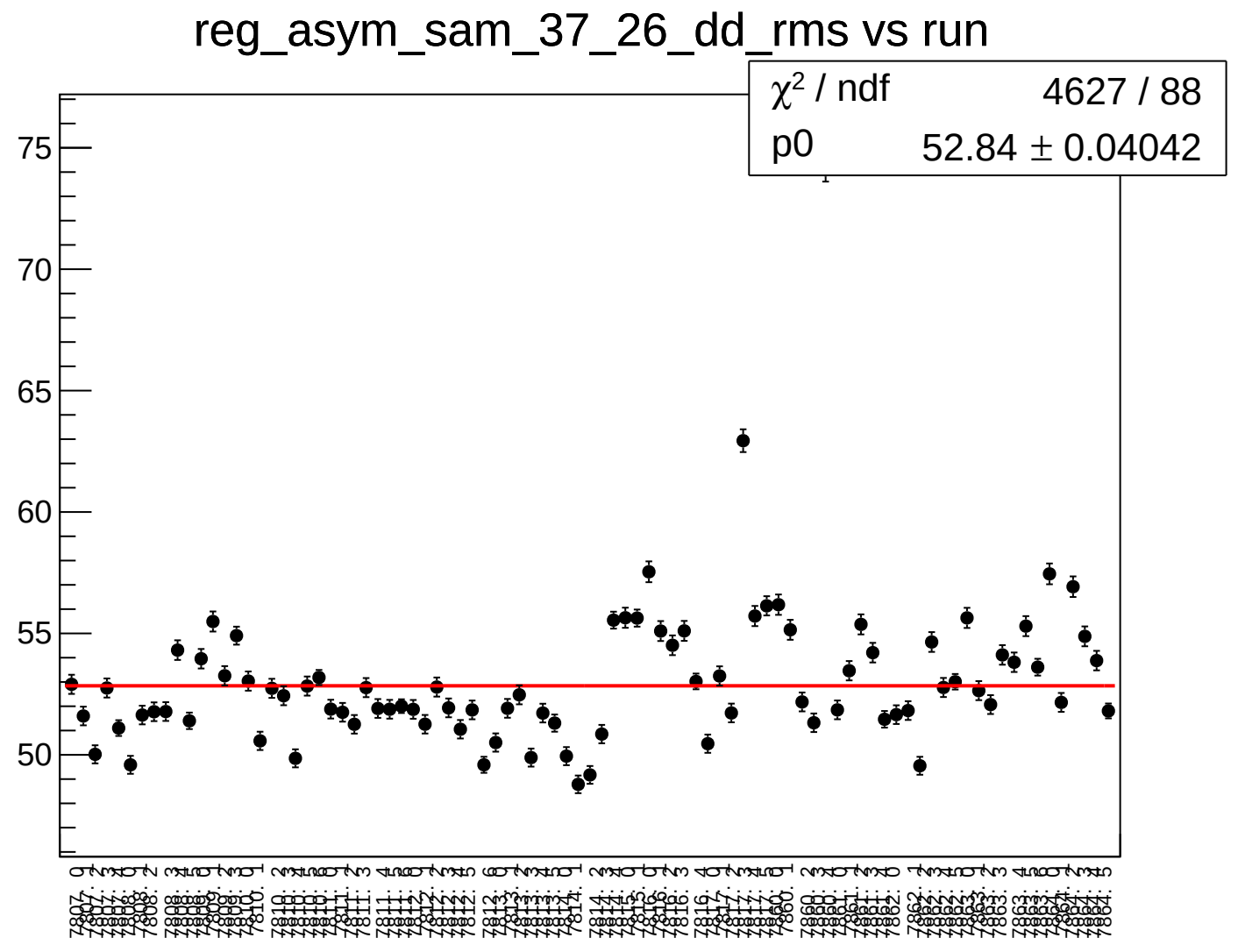

asym_sam_15_26_dd_mean vs run
χ² / ndf 89.63 / 88
p0 −366 ± 1165
pull
Entries 89
Mean 127.7
Std Dev 58.13

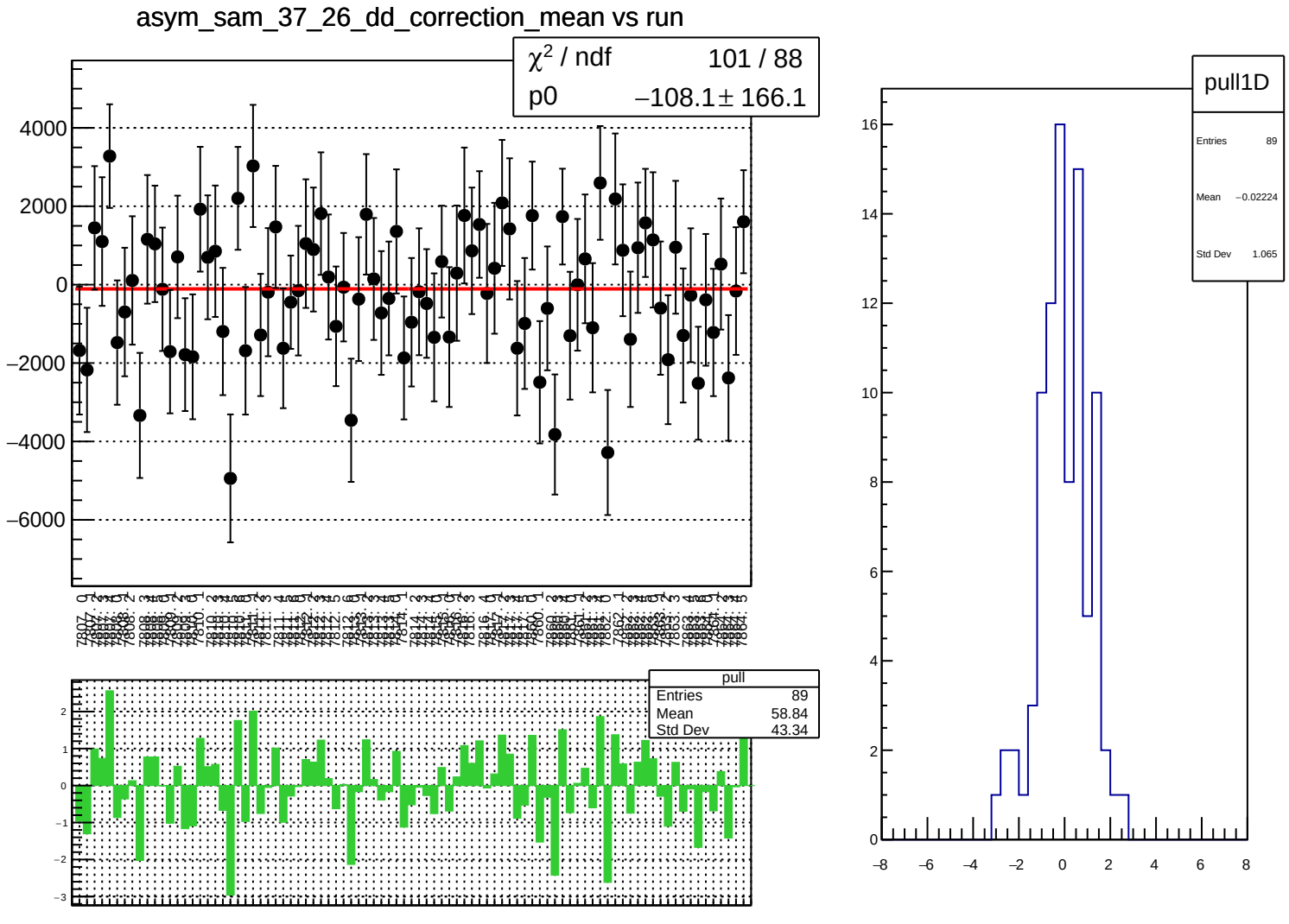

pull1D
Entries 89
Mean −0.01068
Std Dev 1.003

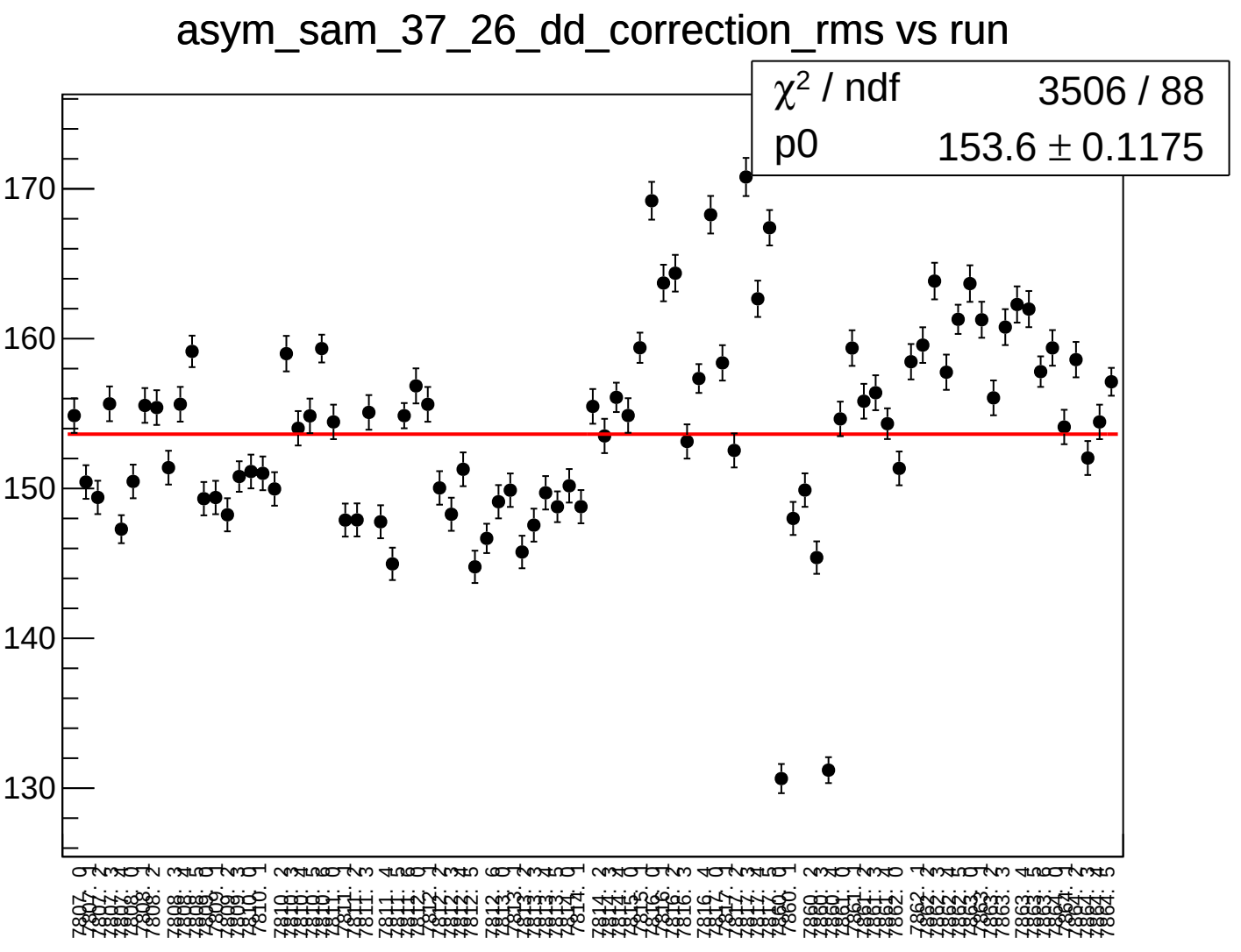

asym_sam_15_26_dd_rms vs run
χ² / ndf 7632 / 88
p0 1076 ± 0.8235
1300
1250
1200
1150
1100
1050
1000
950
900

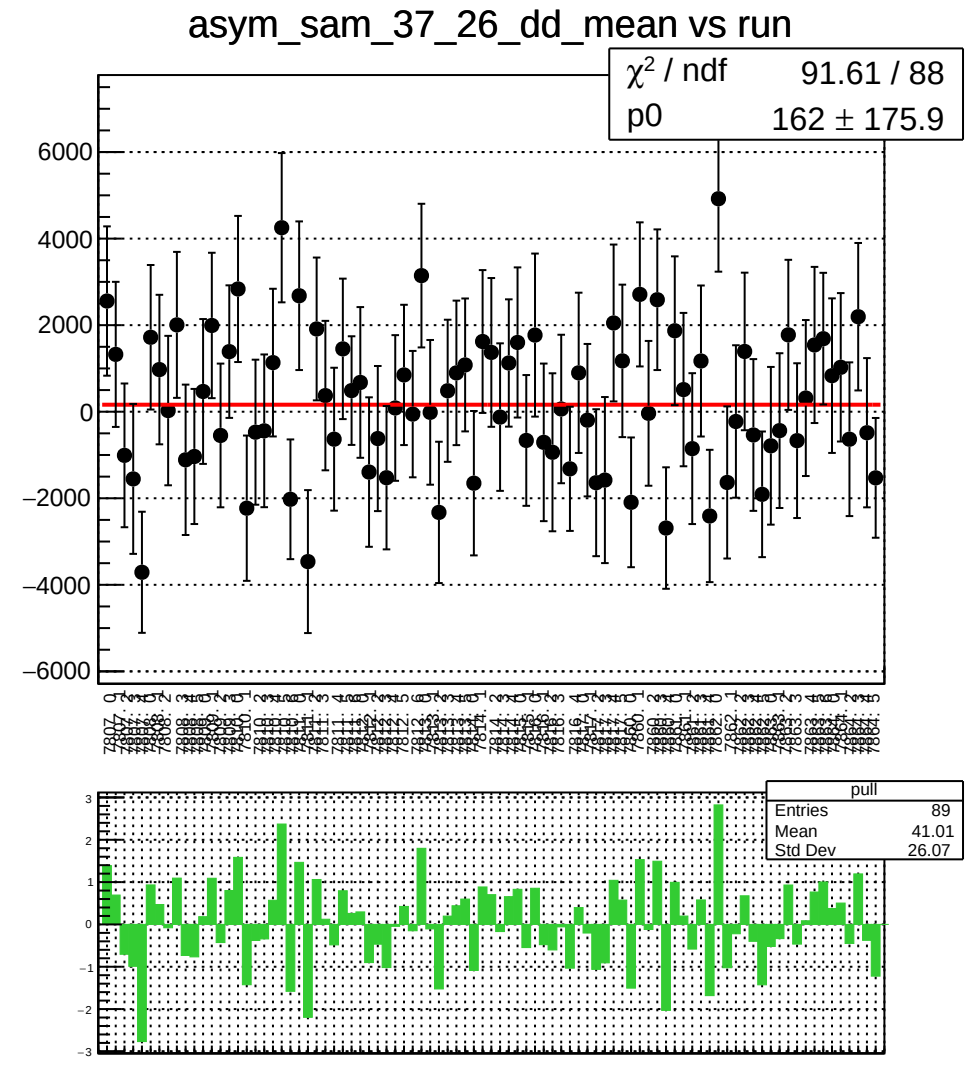

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 80.71 / 88
p0 62.47 ± 57.17
pull
Entries 89
Mean −329.1
Std Dev 414.7

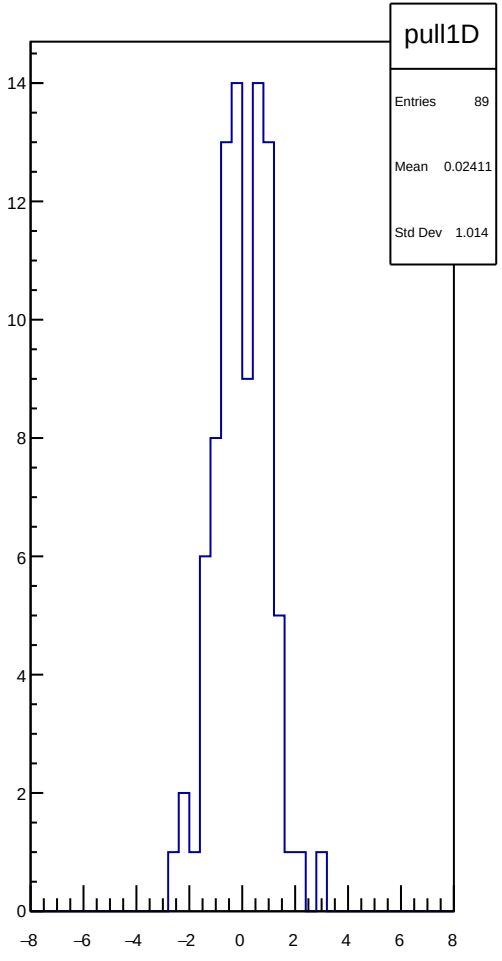

pull1D
Entries 89
Mean 0.00278
Std Dev 0.9523

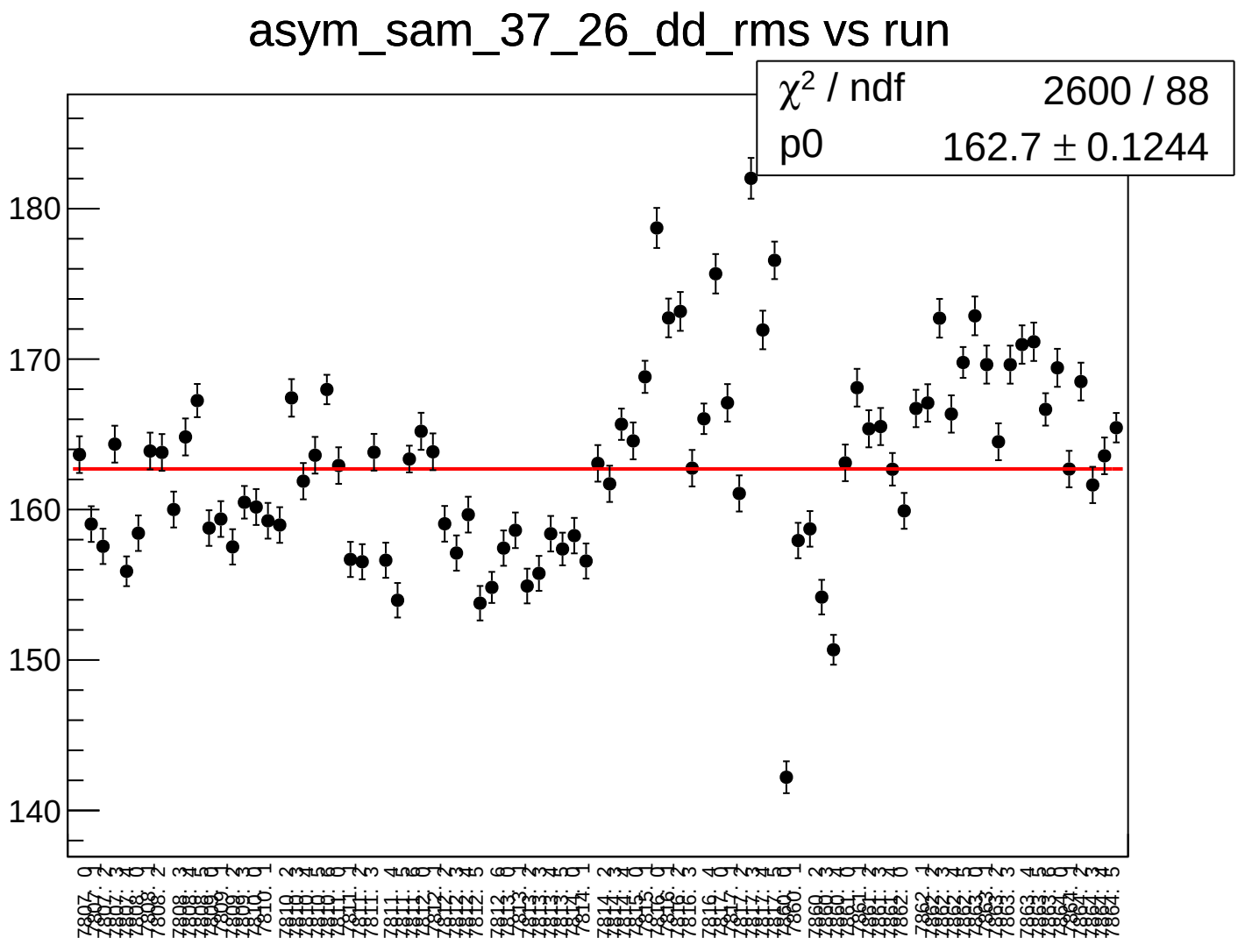

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 4627 / 88
p0 52.84 ± 0.04042
75
70
65
60
55
50

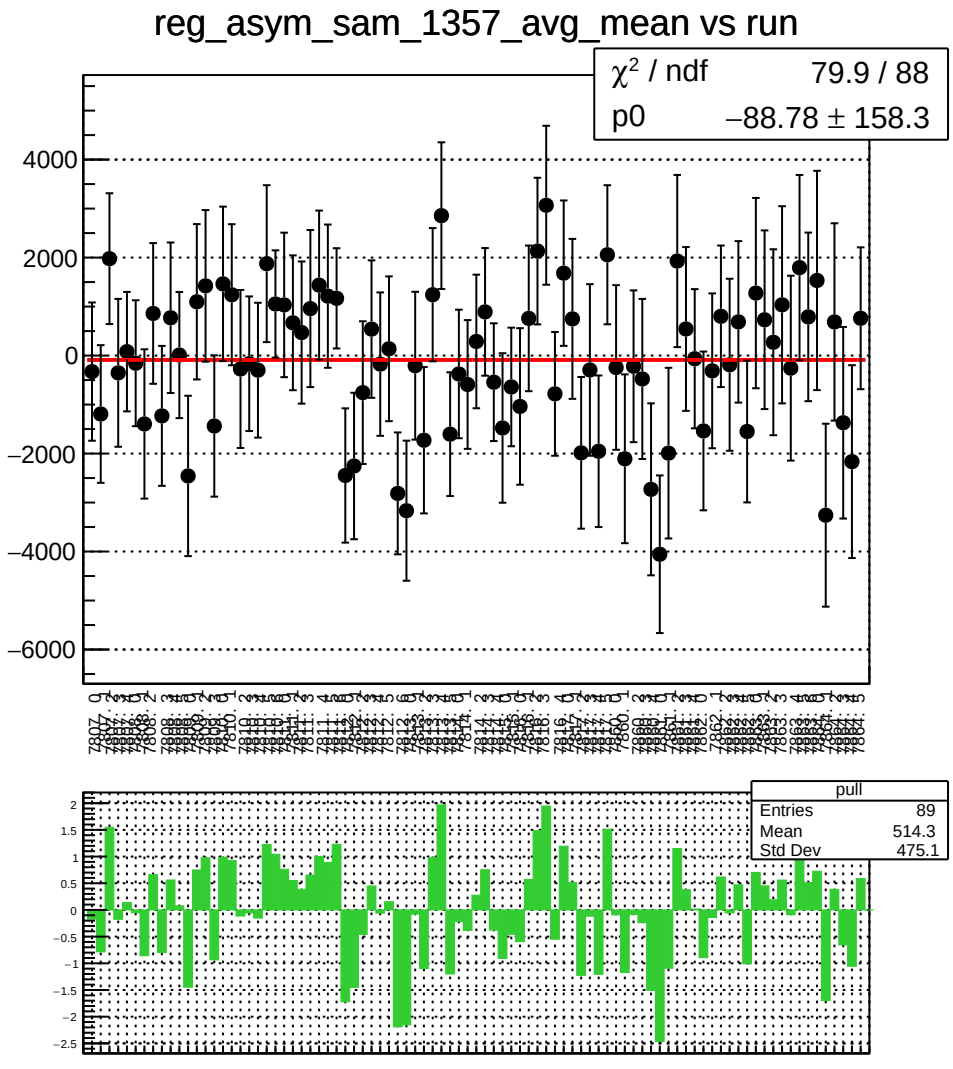

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 101 / 88
p0 −108.1 ± 166.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 58.84
Std Dev 43.34
pull1D
Entries 89
Mean −0.02224
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

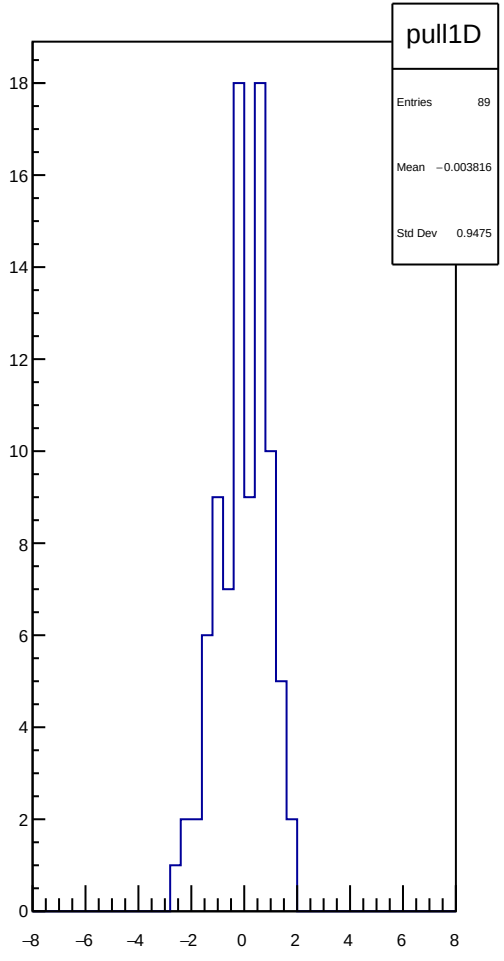

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 3506 / 88
p0 153.6 ± 0.1175
170
160
150
140
130

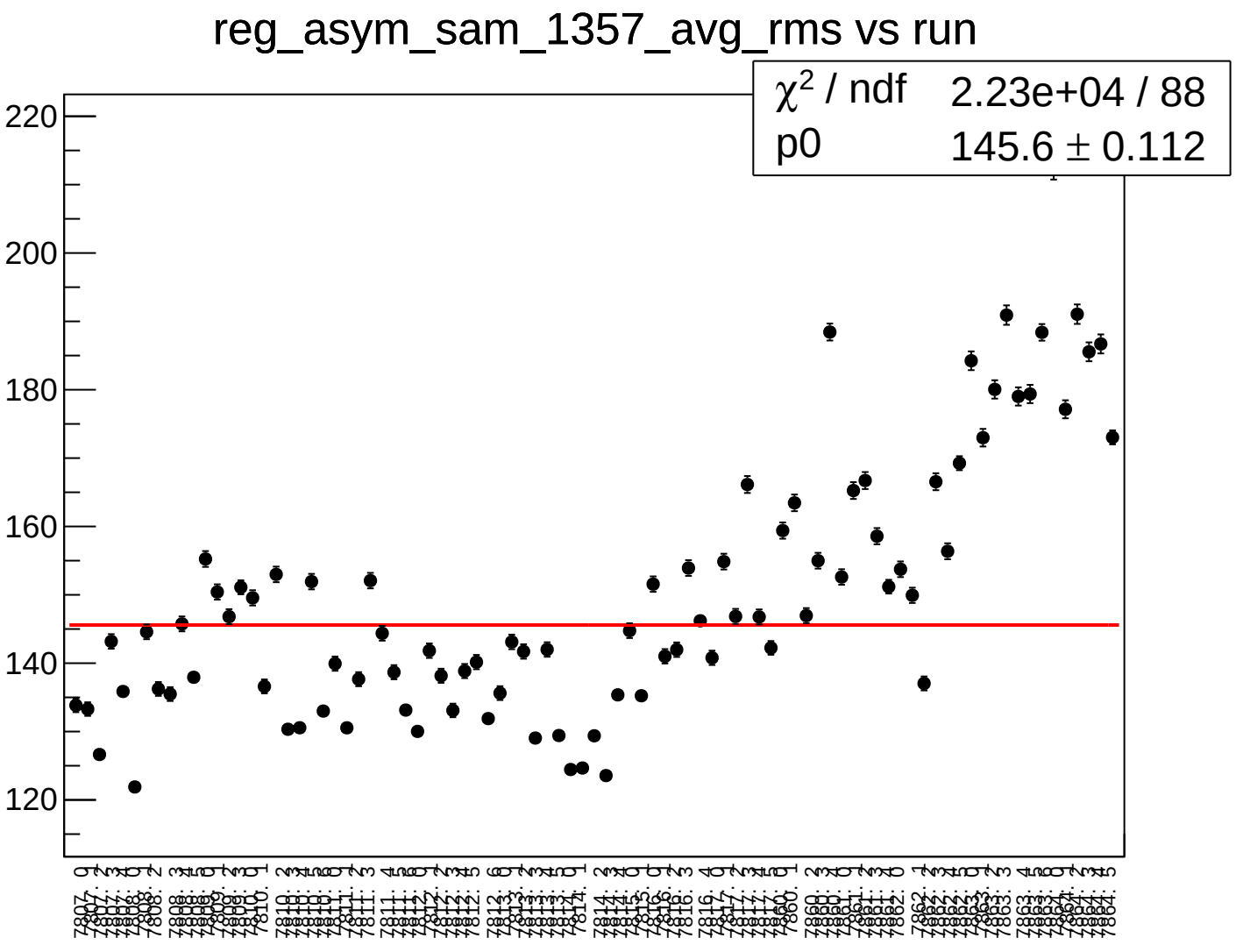

asym_sam_37_26_dd_mean vs run
χ² / ndf 91.61 / 88
p0 162 ± 175.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 41.01
Std Dev 26.07
3
2
1
0
−1
−2
−3

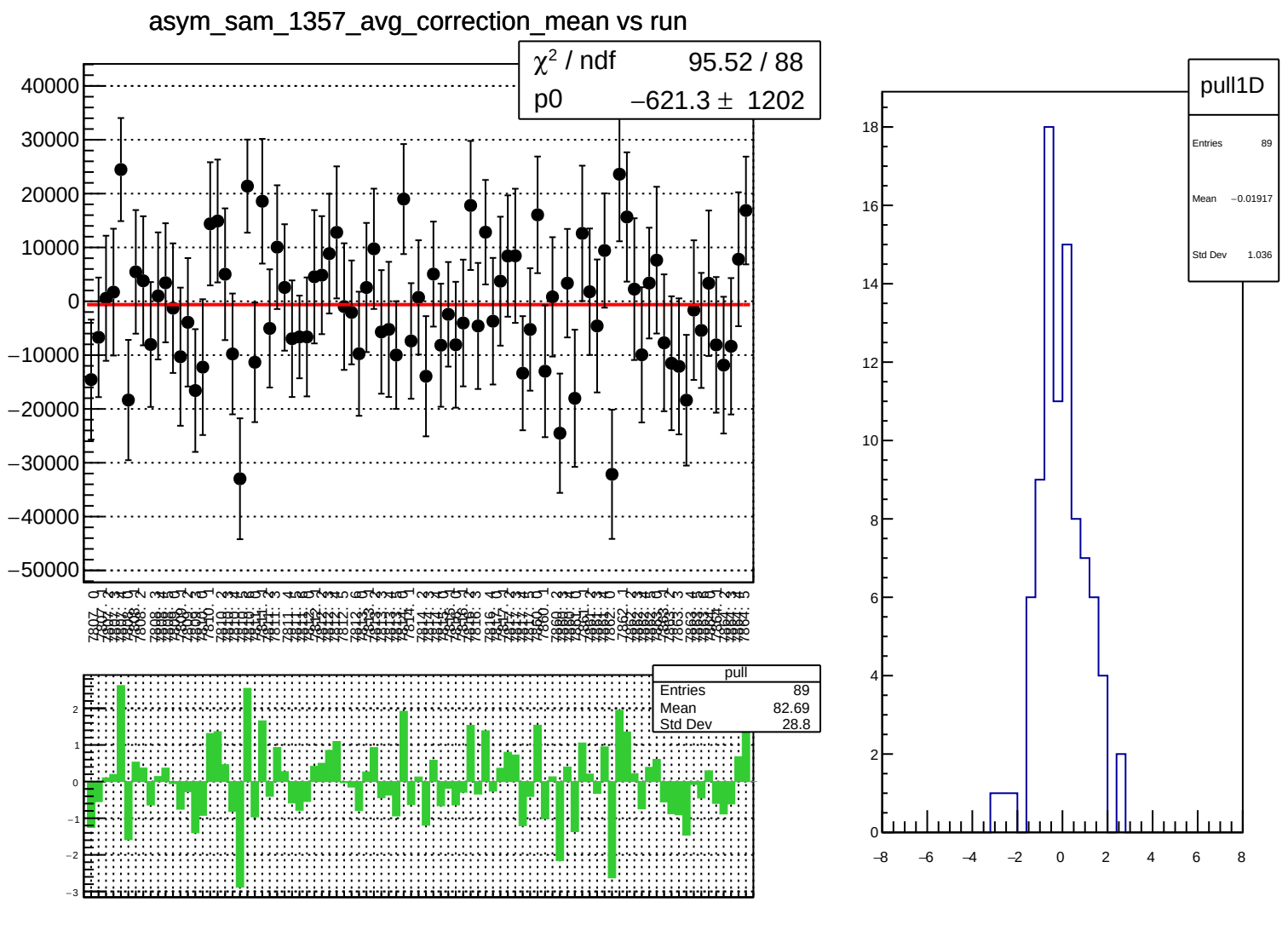

pull1D
Entries 89
Mean 0.02411
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

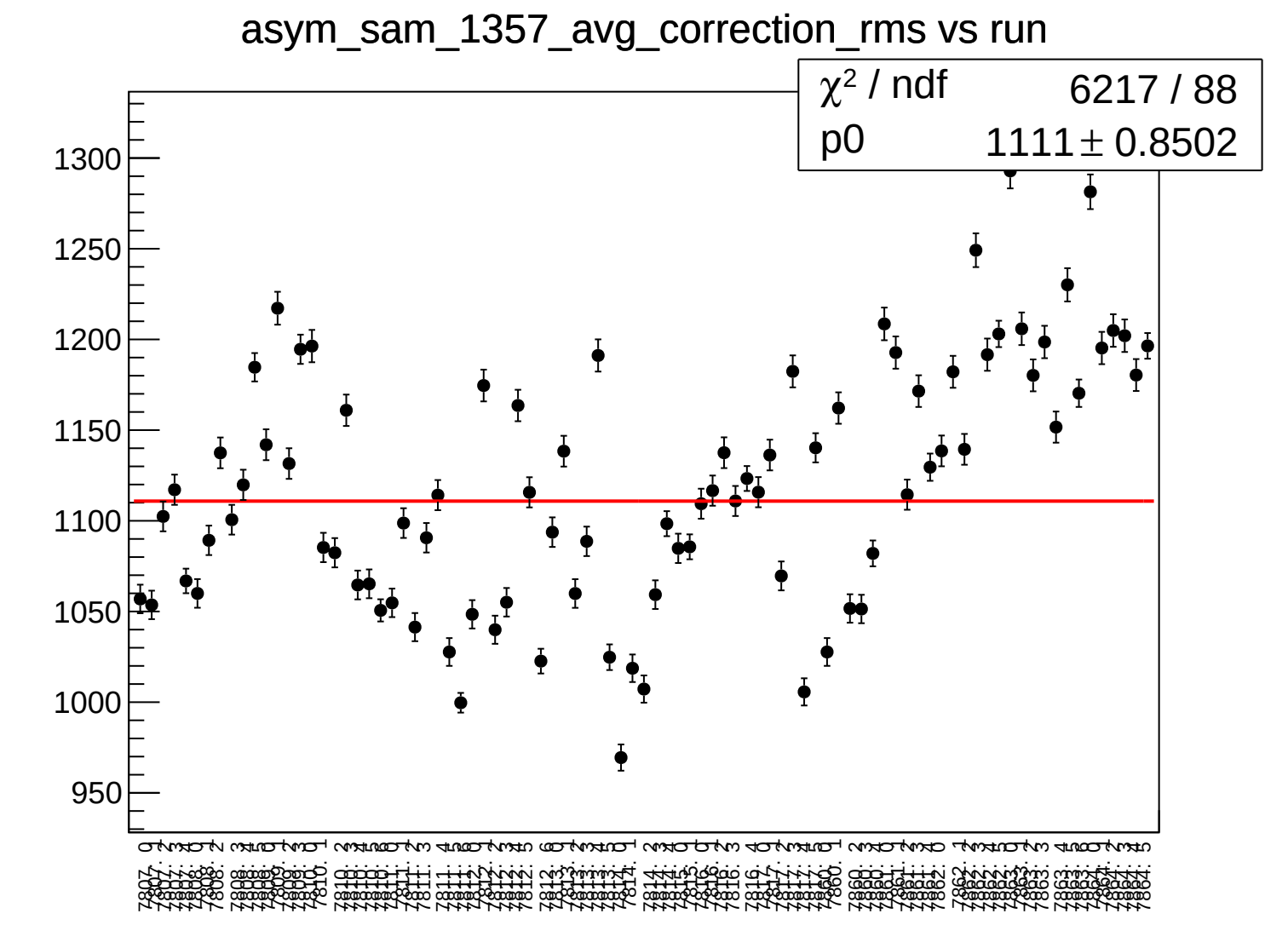

asym_sam_37_26_dd_rms vs run
χ² / ndf 2600 / 88
p0 162.7 ± 0.1244
180
170
160
150
140

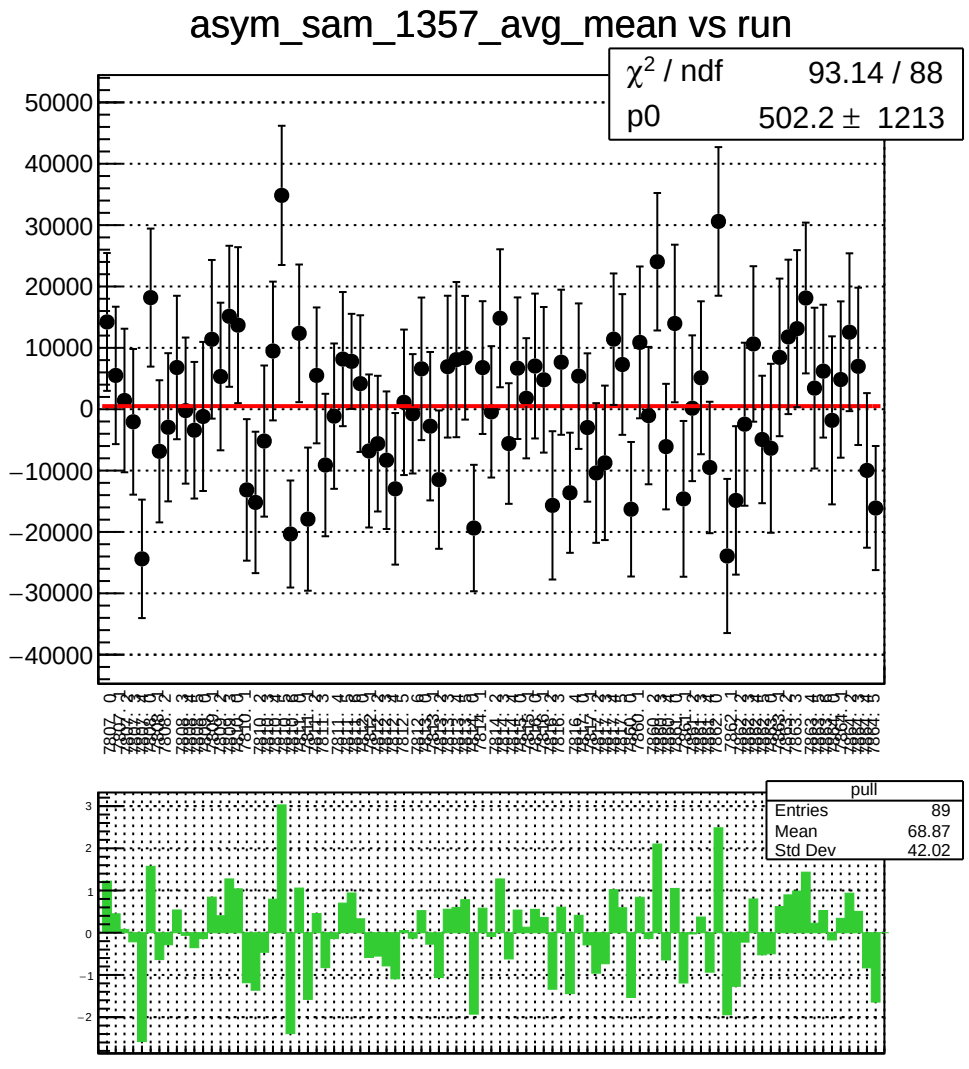

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 79.9 / 88
p0 −88.78 ± 158.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 514.3
Std Dev 475.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

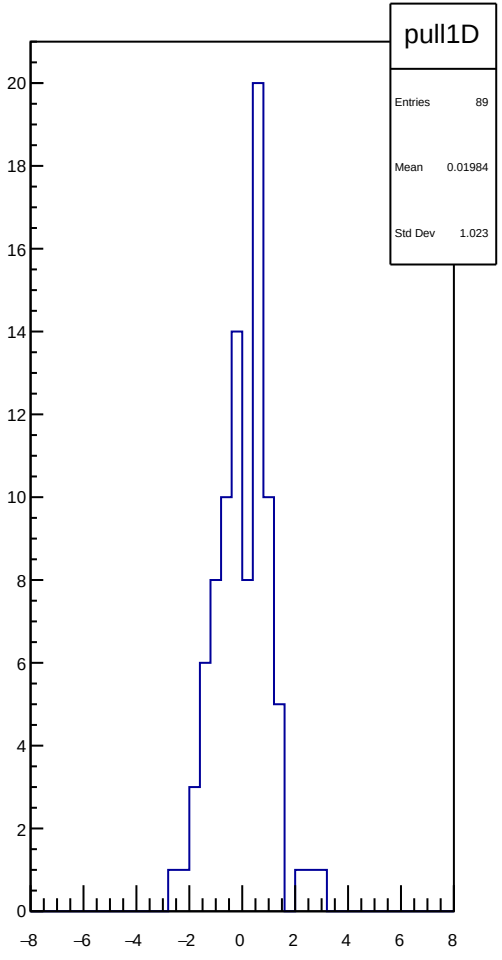

pull1D
Entries 89
Mean −0.003816
Std Dev 0.9475
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

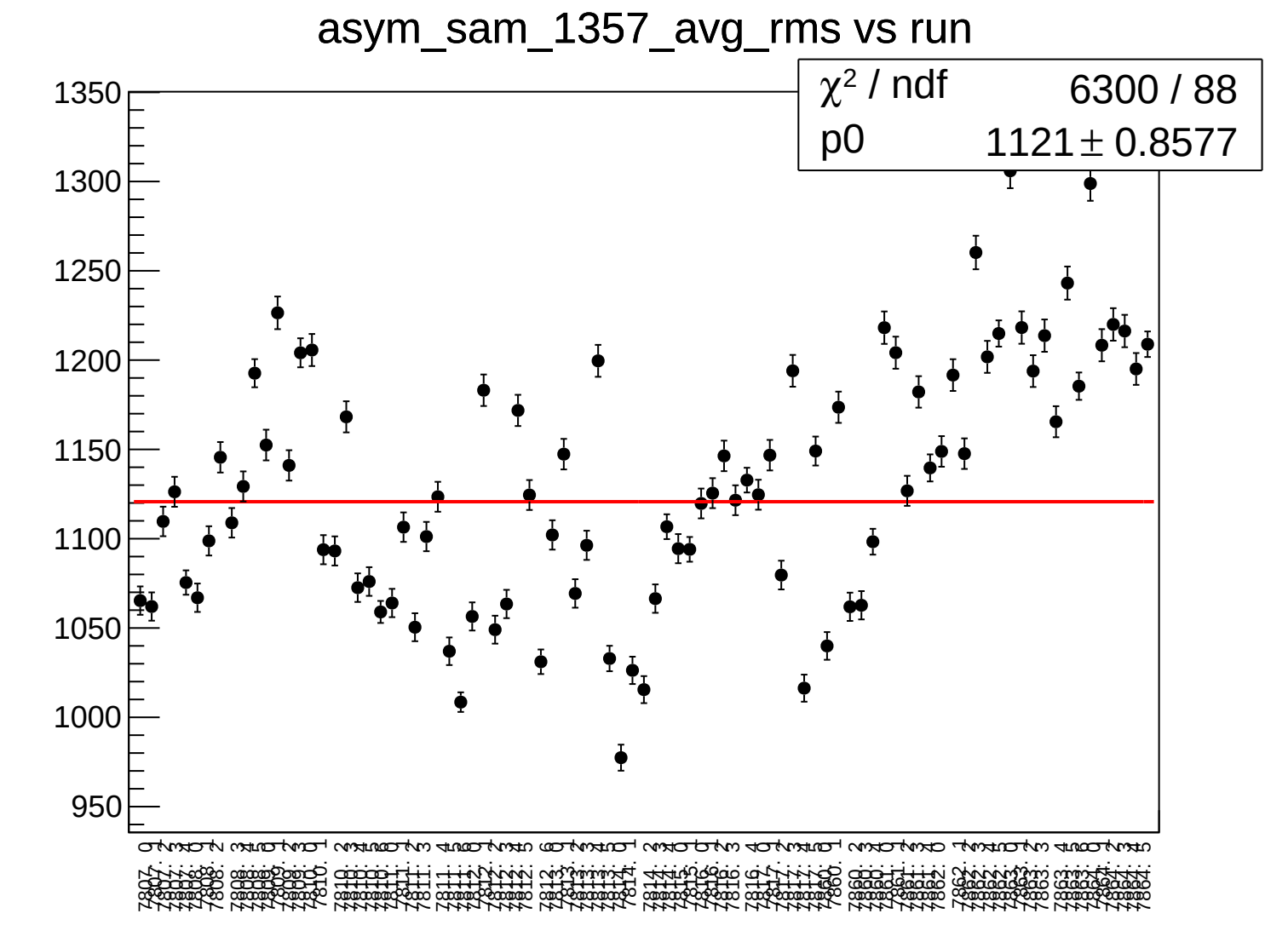

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.23e+04 / 88
p0 145.6 ± 0.112
220
200
180
160
140
120

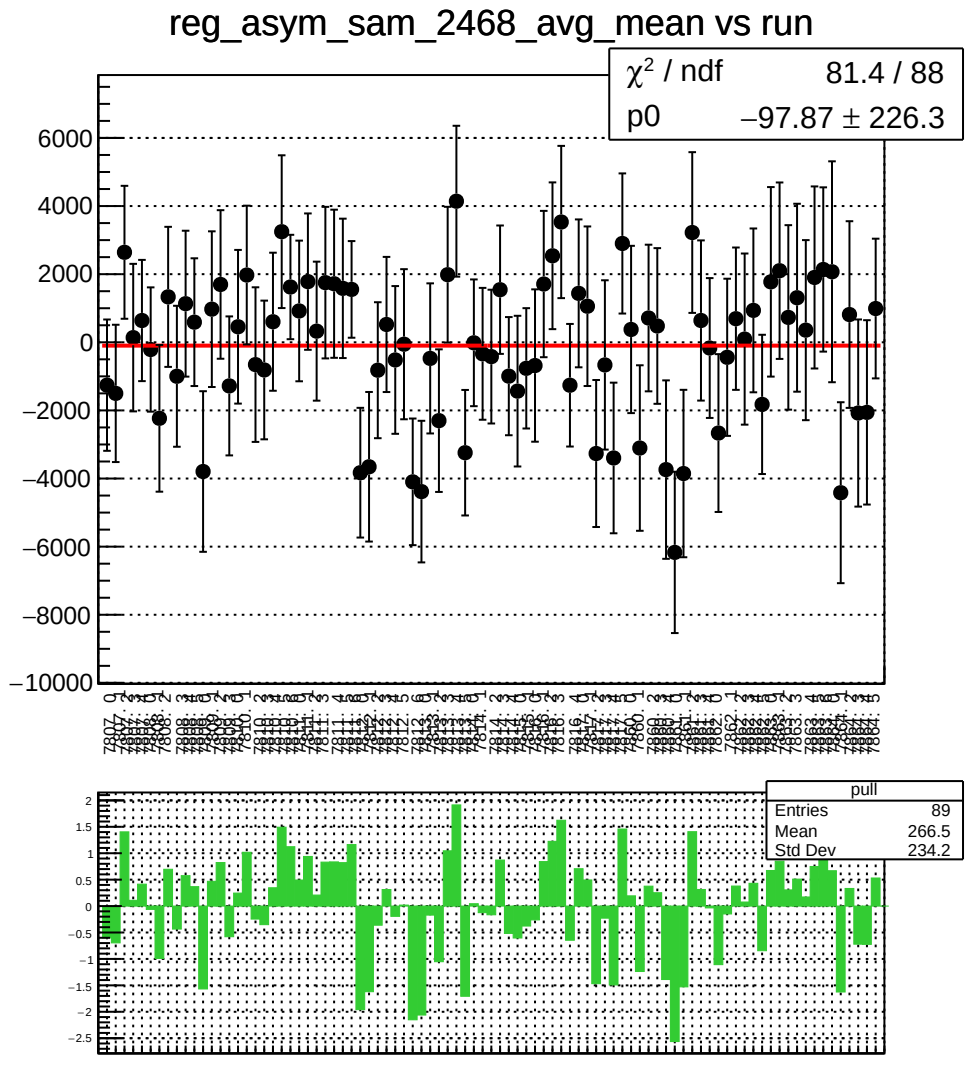

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 95.52 / 88
p0 −621.3 ± 1202
pull
Entries 89
Mean 82.69
Std Dev 28.8
pull1D
Entries 89
Mean −0.01917
Std Dev 1.036

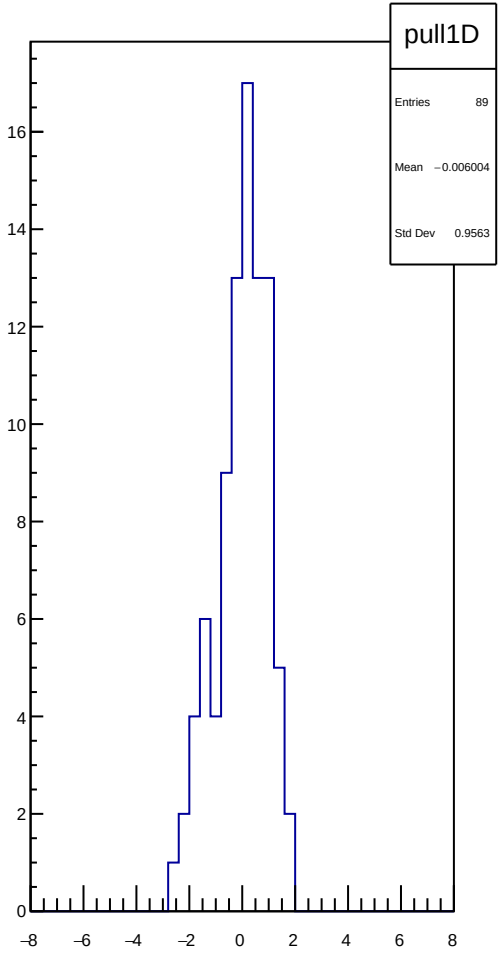

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 6217 / 88
p0 1111 ± 0.8502
1300
1250
1200
1150
1100
1050
1000
950

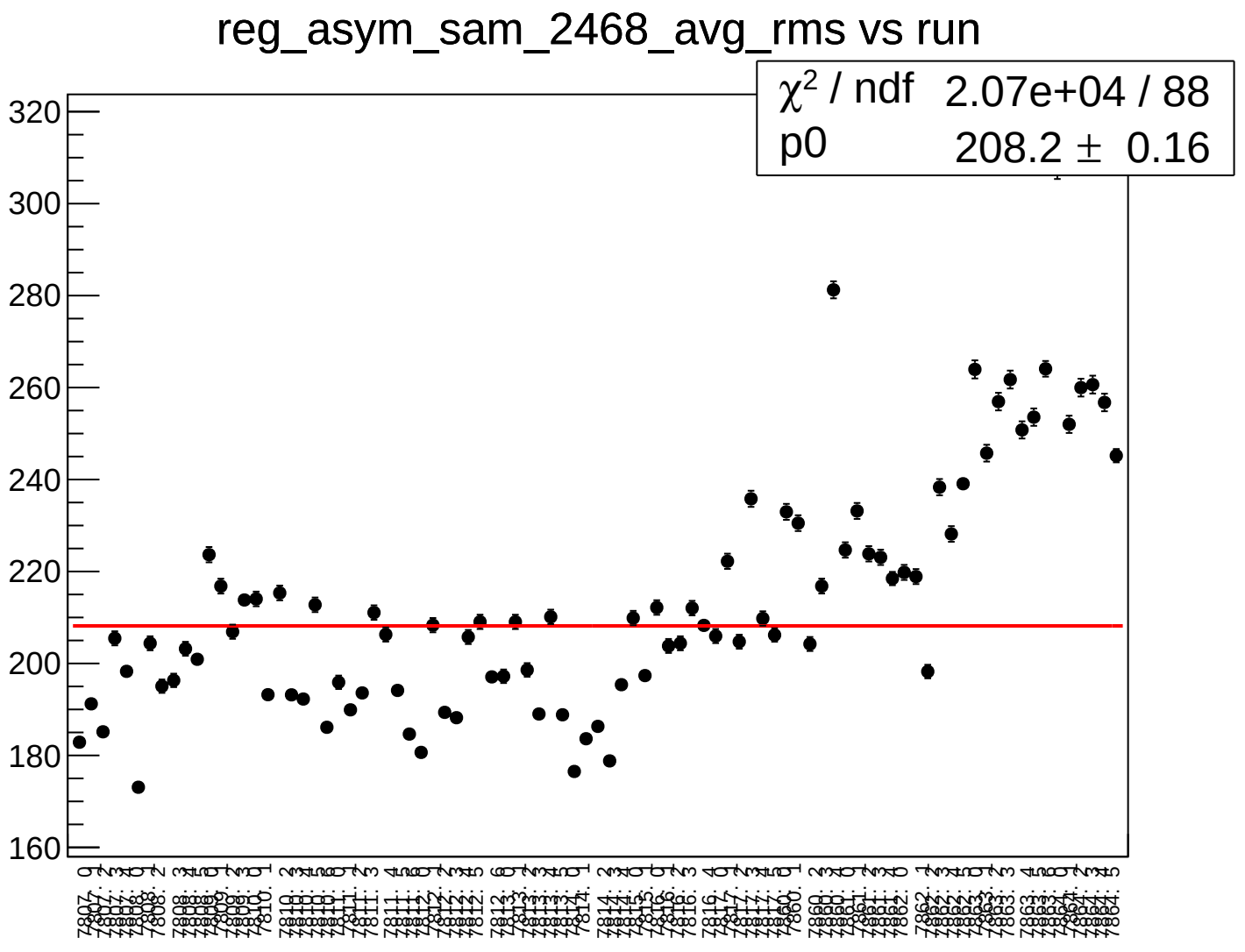

asym_sam_1357_avg_mean vs run
χ² / ndf 93.14 / 88
p0 502.2 ± 1213
pull
Entries 89
Mean 68.87
Std Dev 42.02

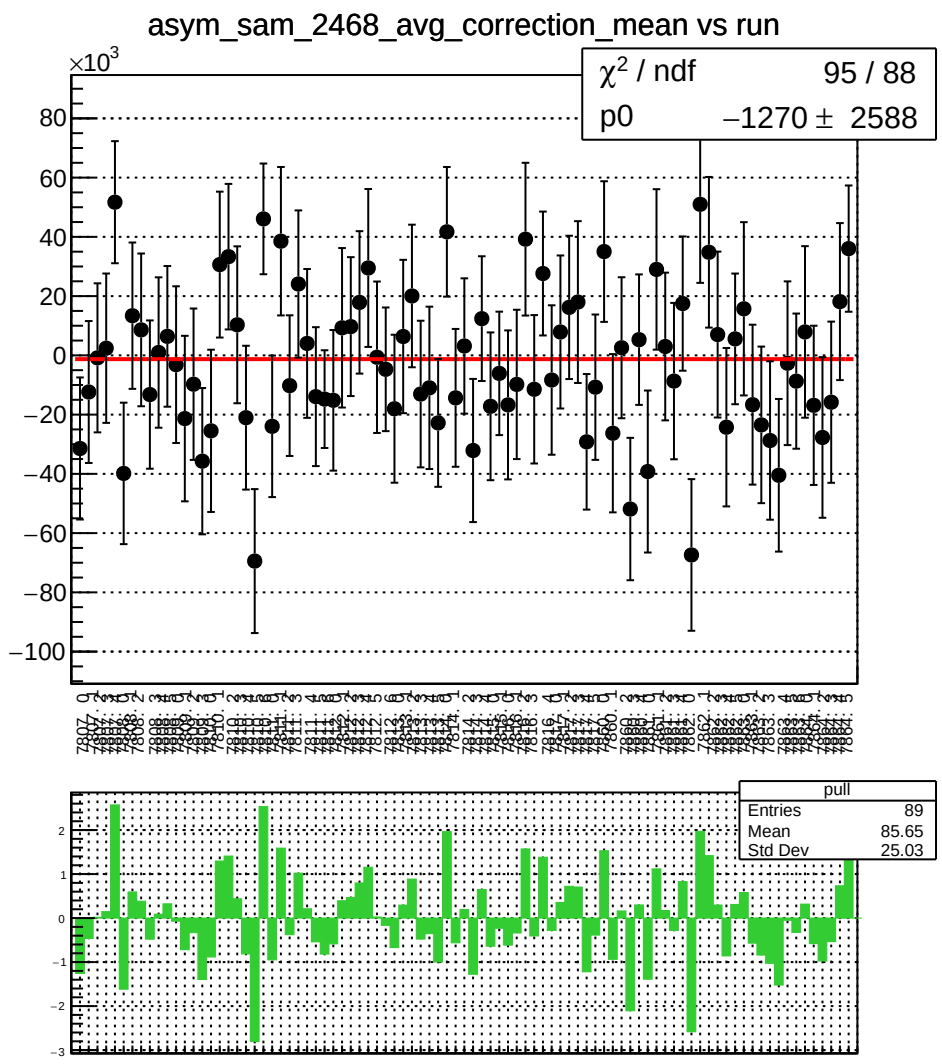

pull1D
Entries 89
Mean 0.01984
Std Dev 1.023

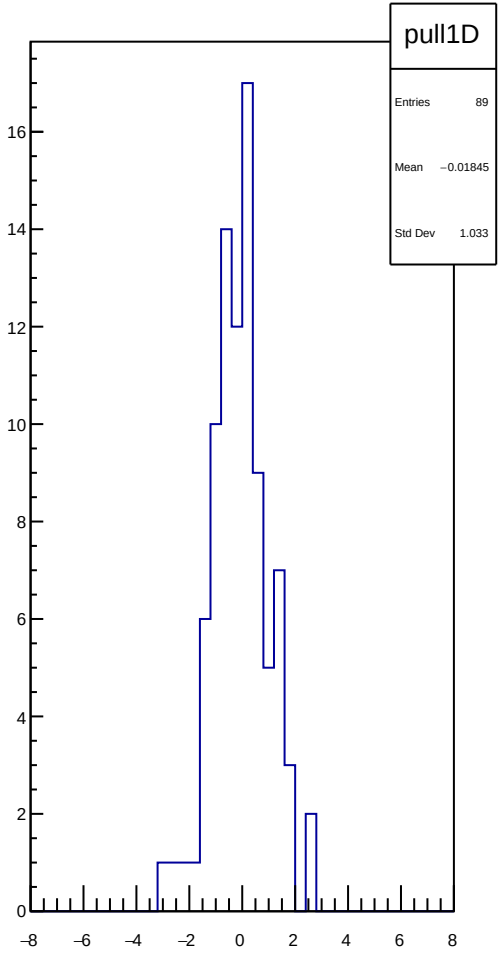

asym_sam_1357_avg_rms vs run
χ² / ndf 6300 / 88
p0 1121 ± 0.8577
1350
1300
1250
1200
1150
1100
1050
1000
950

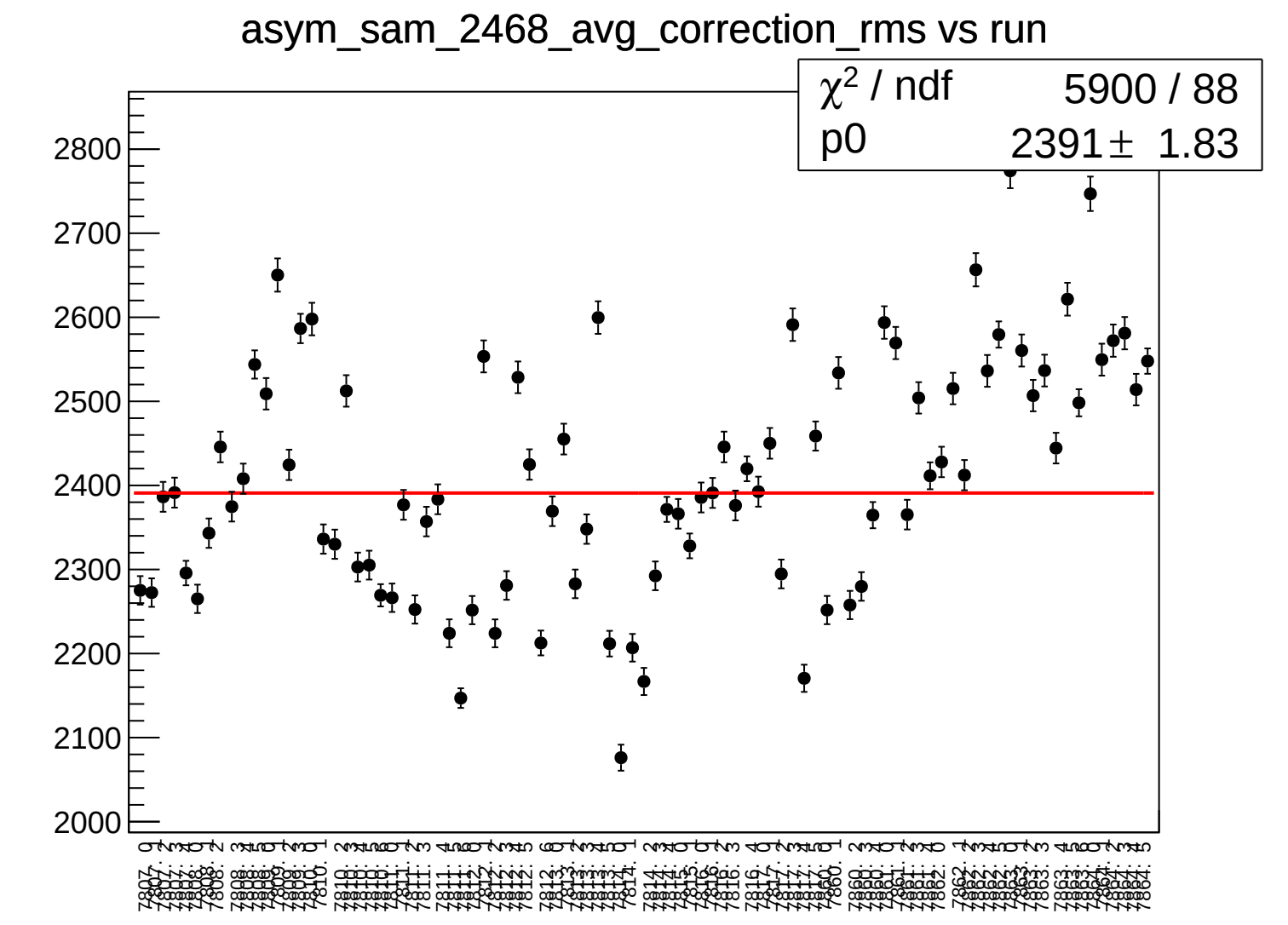

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 81.4 / 88
p0 −97.87 ± 226.3
pull
Entries 89
Mean 266.5
Std Dev 234.2

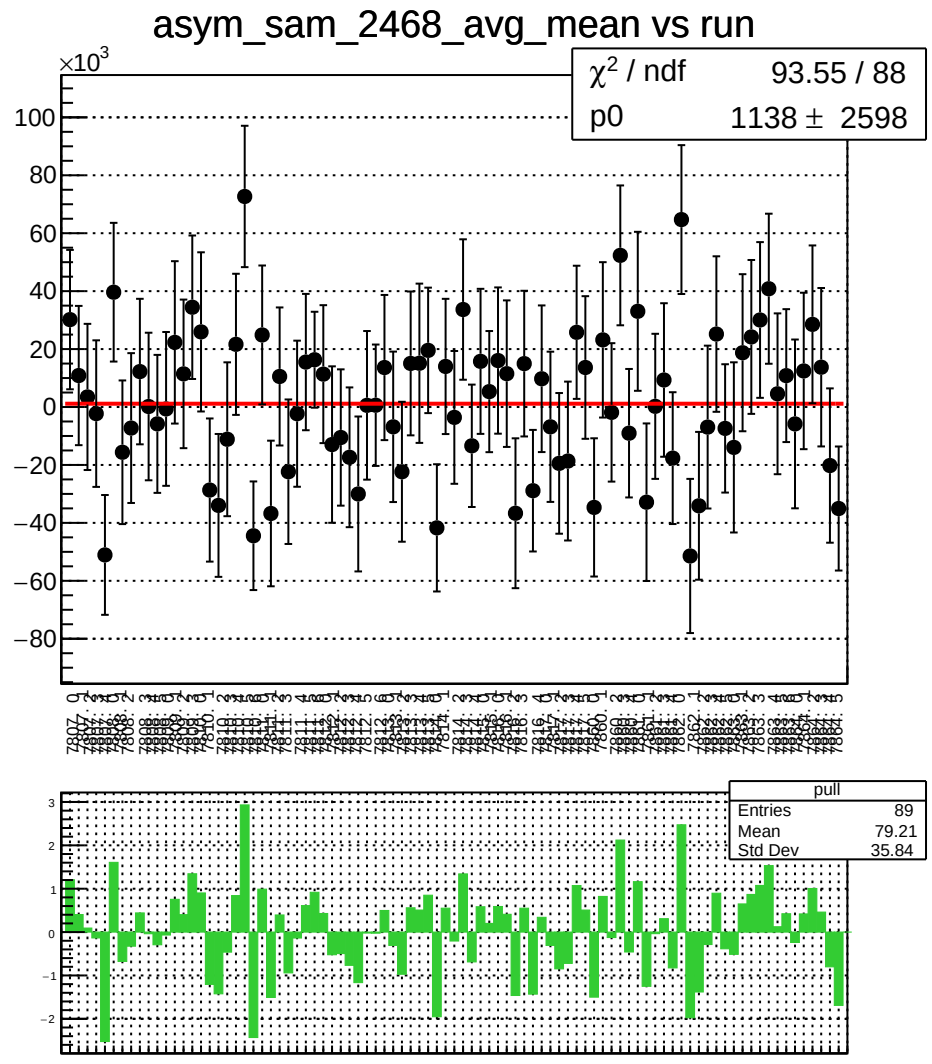

pull1D
Entries 89
Mean −0.006004
Std Dev 0.9563

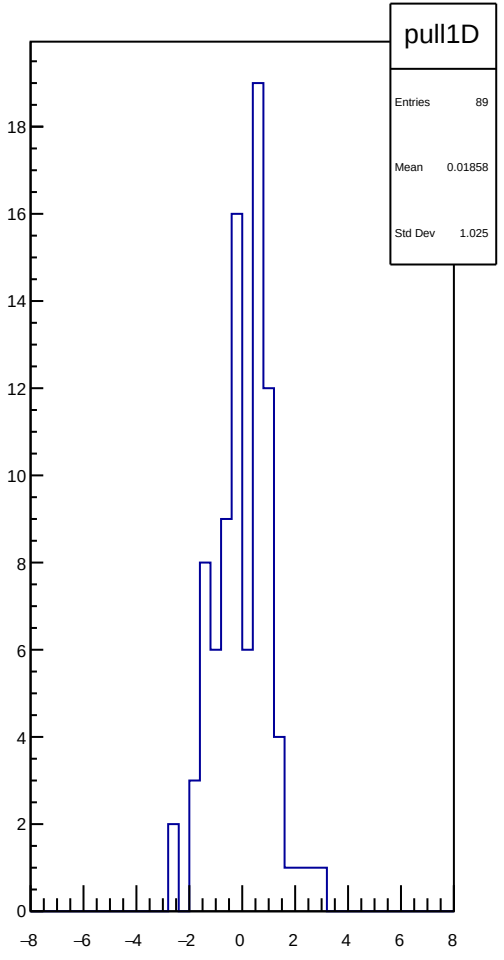

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 2.07e+04 / 88
p0 208.2 ± 0.16
320
300
280
260
240
220
200
180
160

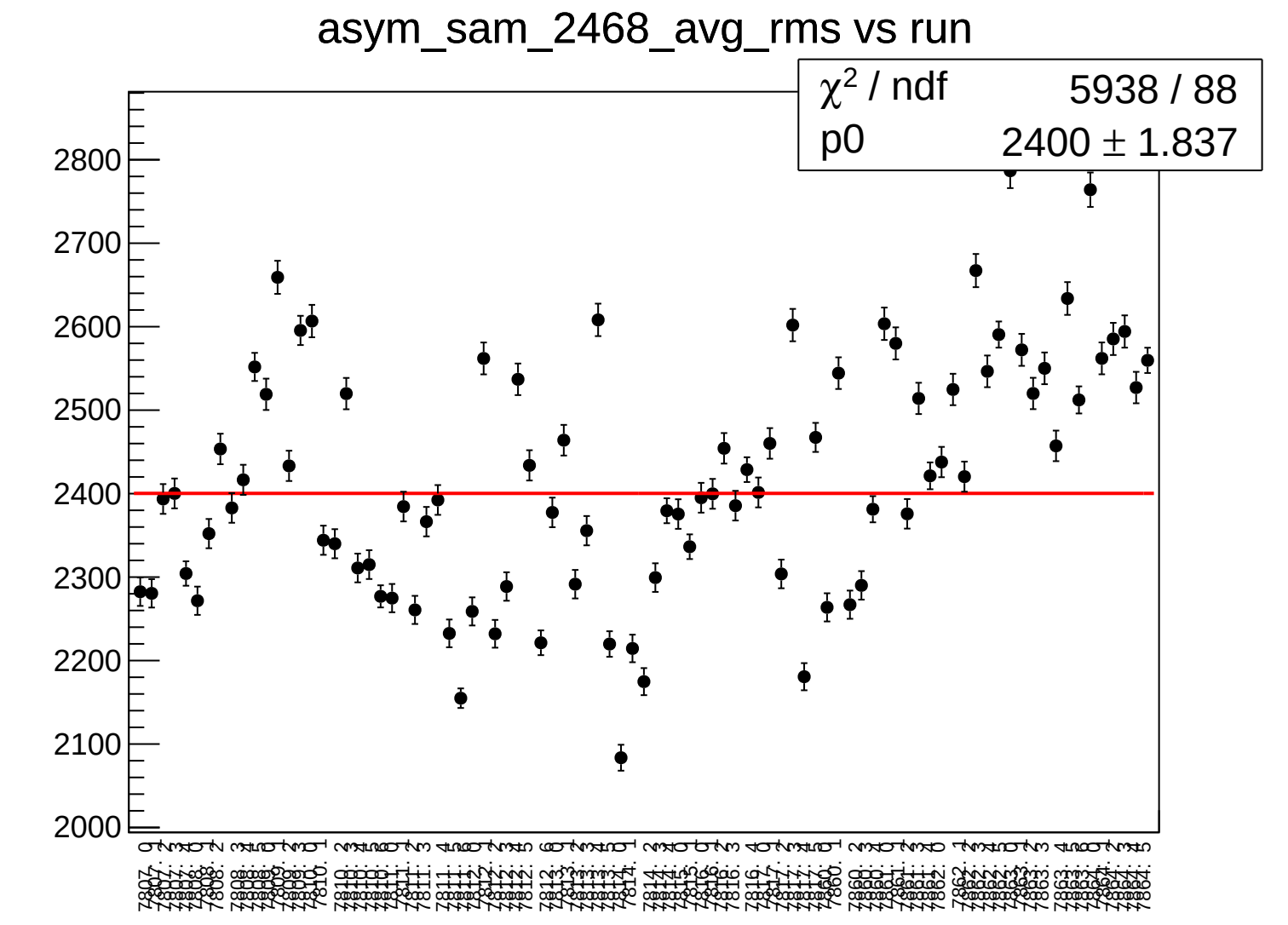

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 95 / 88
p0 −1270 ± 2588
×10³
pull
Entries 89
Mean 85.65
Std Dev 25.03

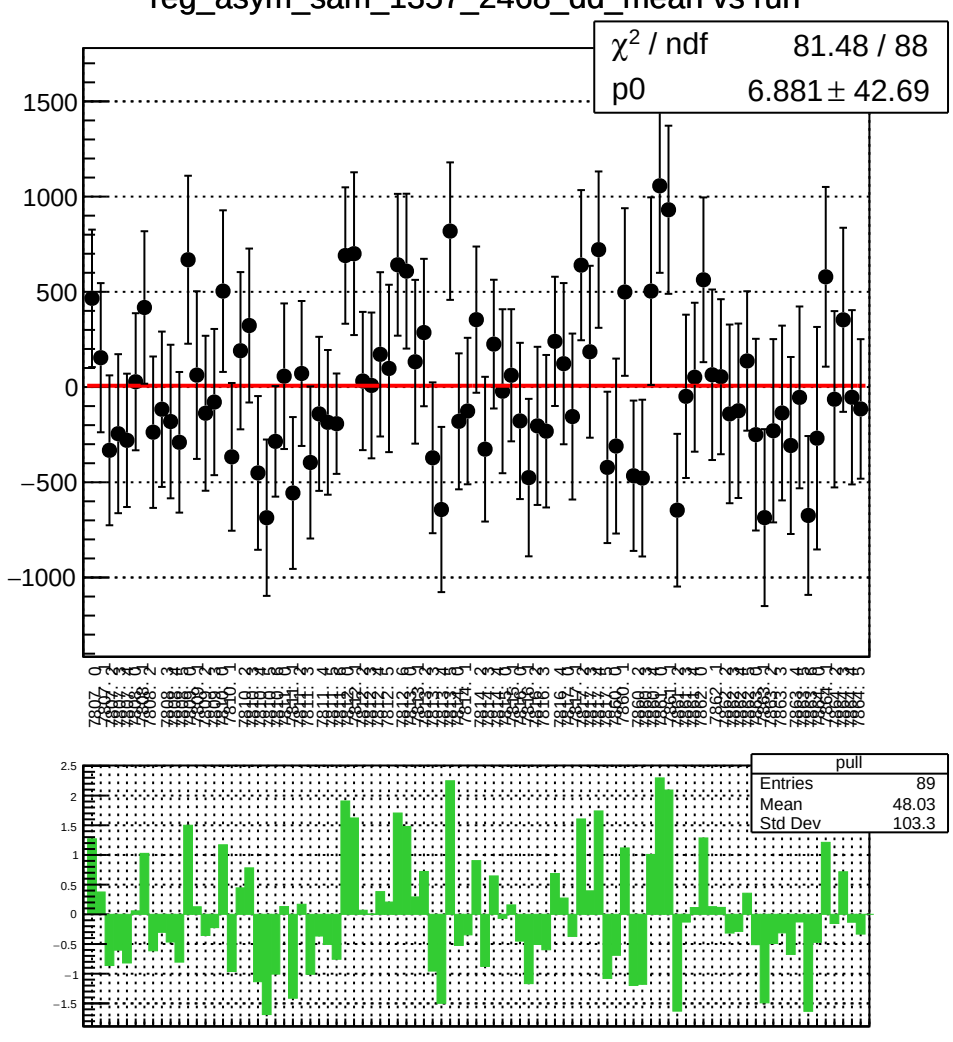

pull1D
Entries 89
Mean −0.01845
Std Dev 1.033

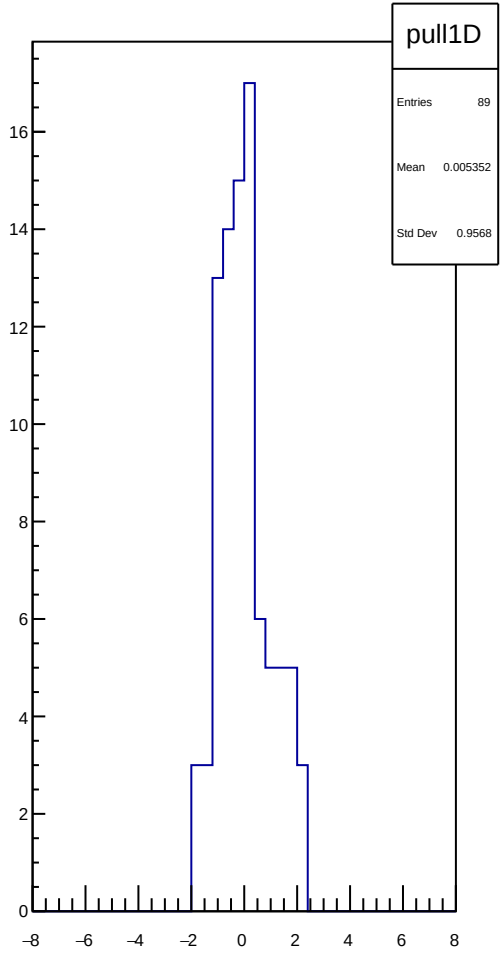

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 5900 / 88
p0 2391 ± 1.83
2800
2700
2600
2500
2400
2300
2200
2100
2000

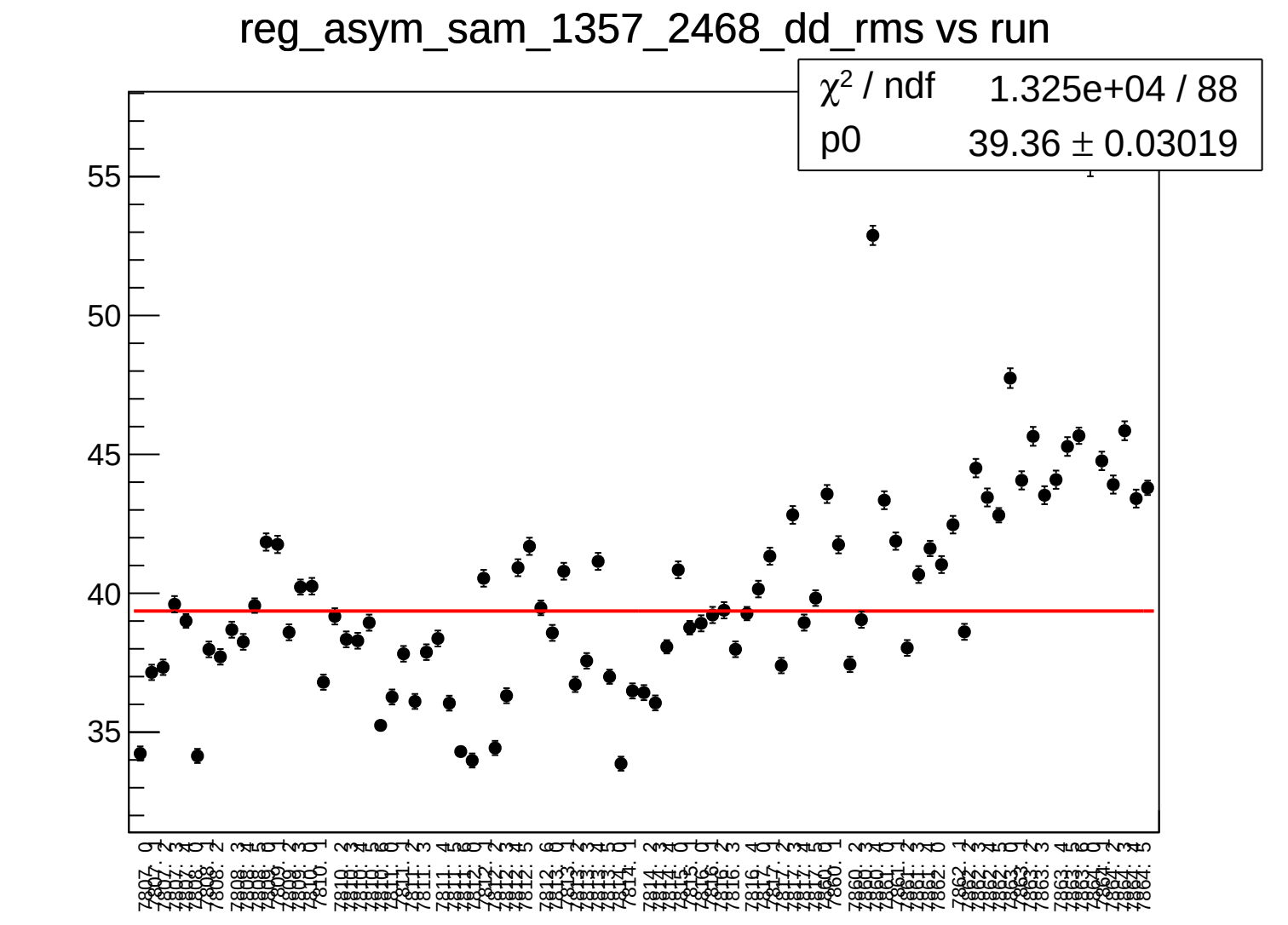

asym_sam_2468_avg_mean vs run
×10^3
χ² / ndf 93.55 / 88
p0 1138 ± 2598
pull
Entries 89
Mean 79.21
Std Dev 35.84

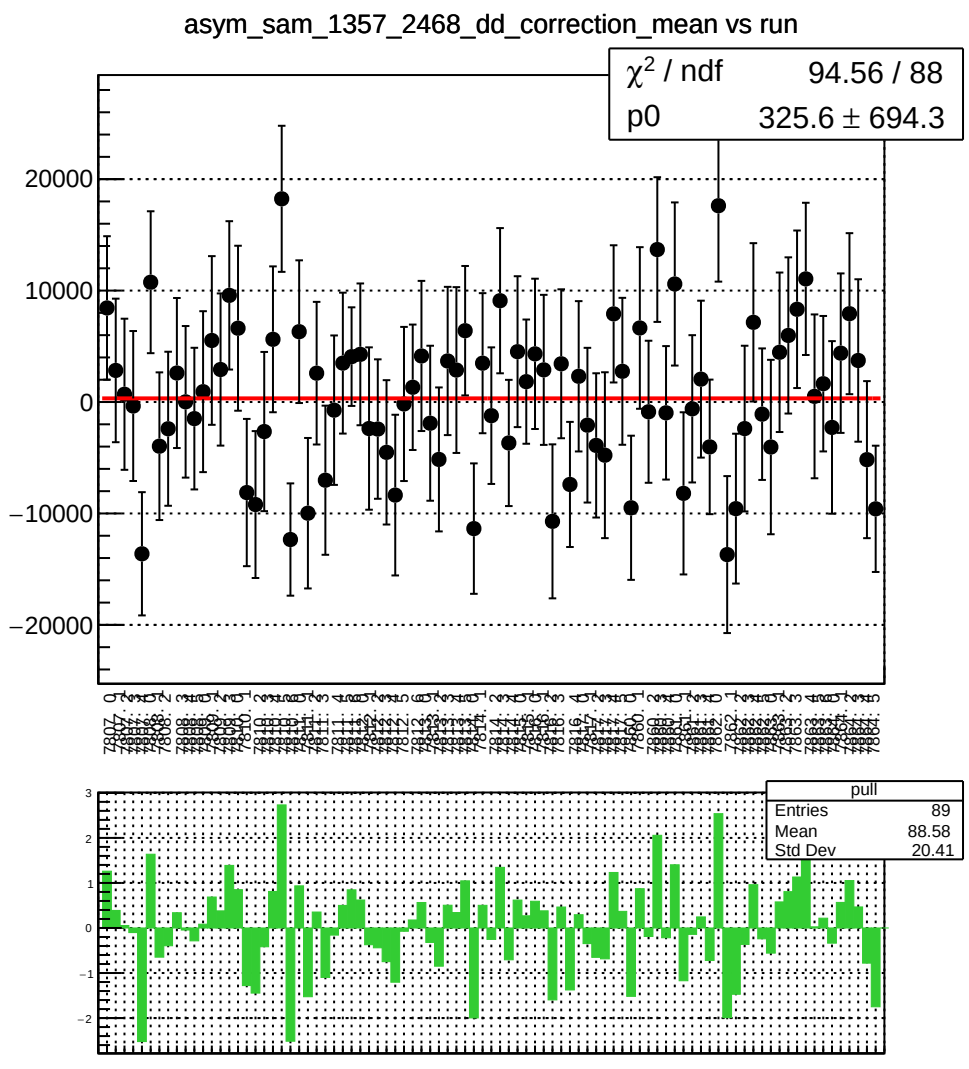

pull1D
Entries 89
Mean 0.01858
Std Dev 1.025

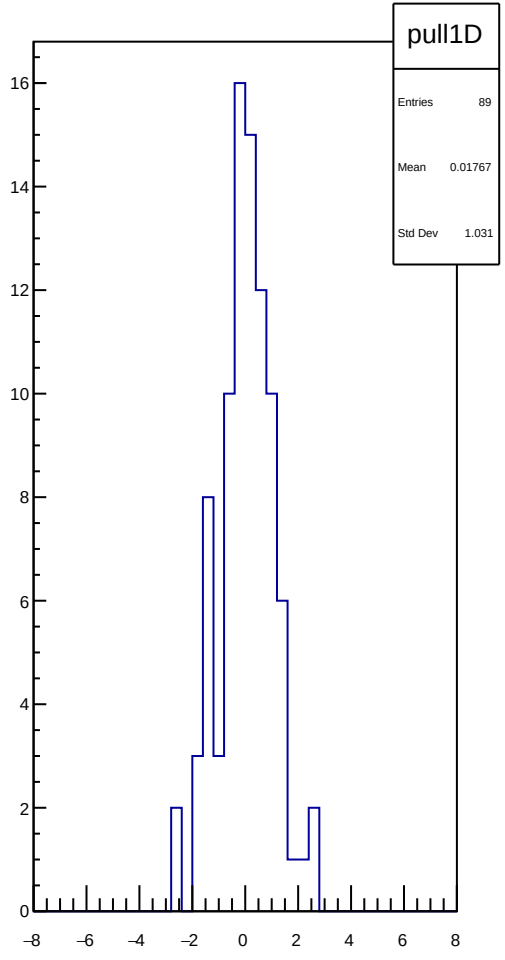

asym_sam_2468_avg_rms vs run
χ² / ndf 5938 / 88
p0 2400 ± 1.837
2800
2700
2600
2500
2400
2300
2200
2100
2000

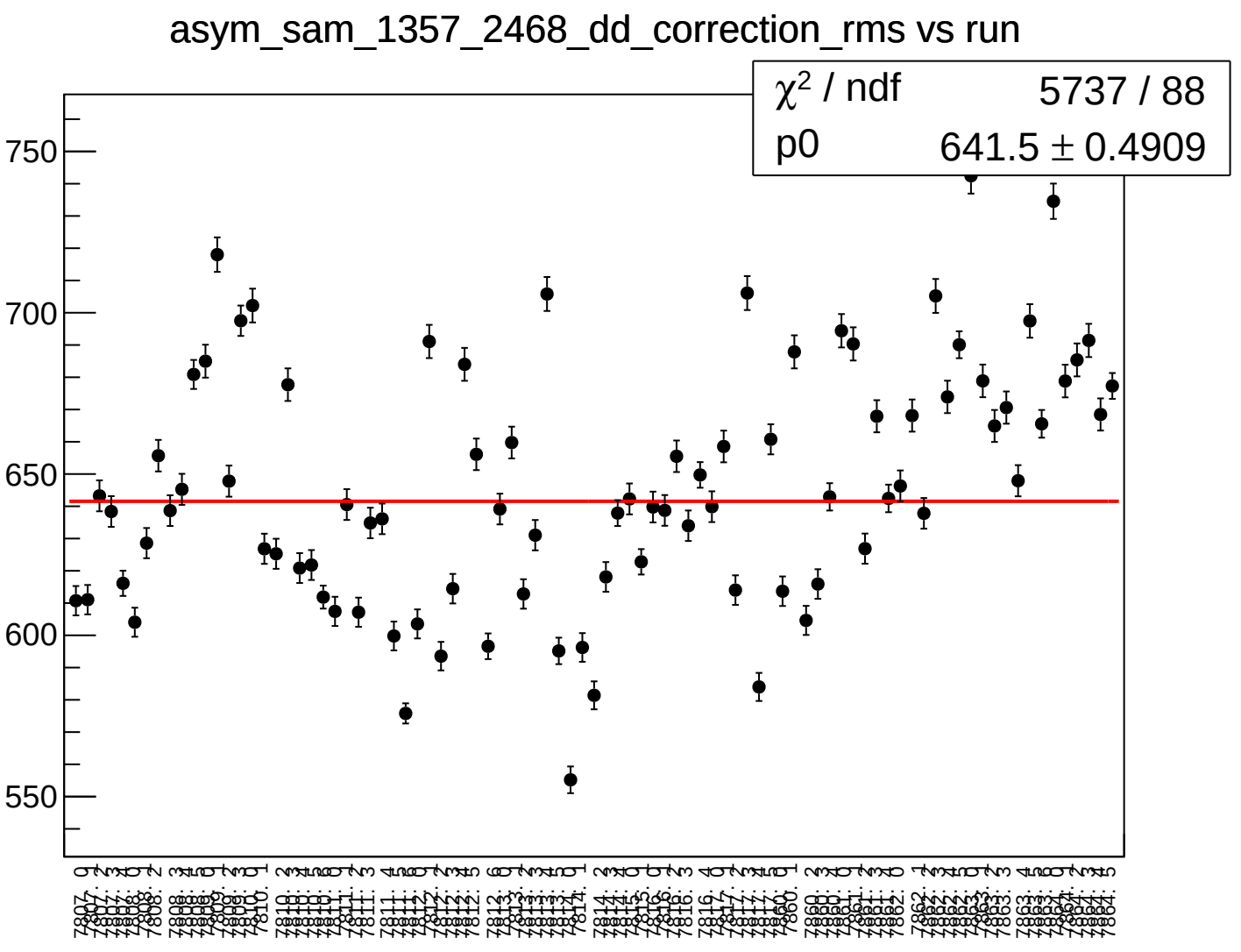

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 81.48 / 88
p0 6.881 ± 42.69
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean 48.03
Std Dev 103.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

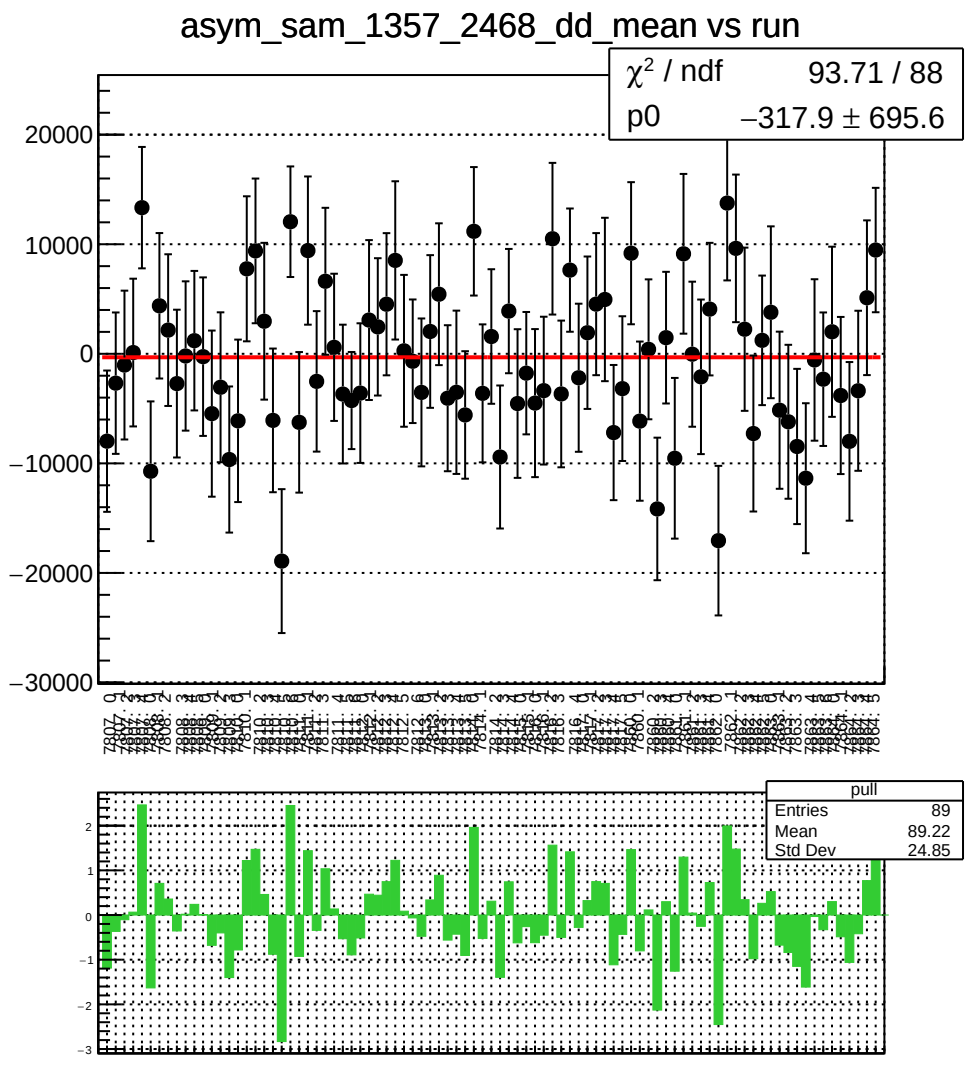

pull1D
Entries 89
Mean 0.005352
Std Dev 0.9568
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

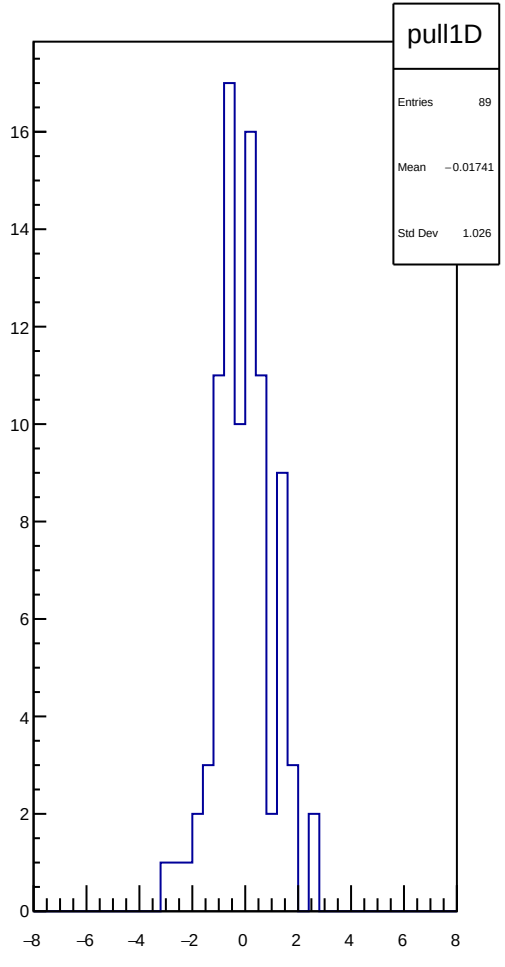

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.325e+04 / 88
p0 39.36 ± 0.03019
55
50
45
40
35

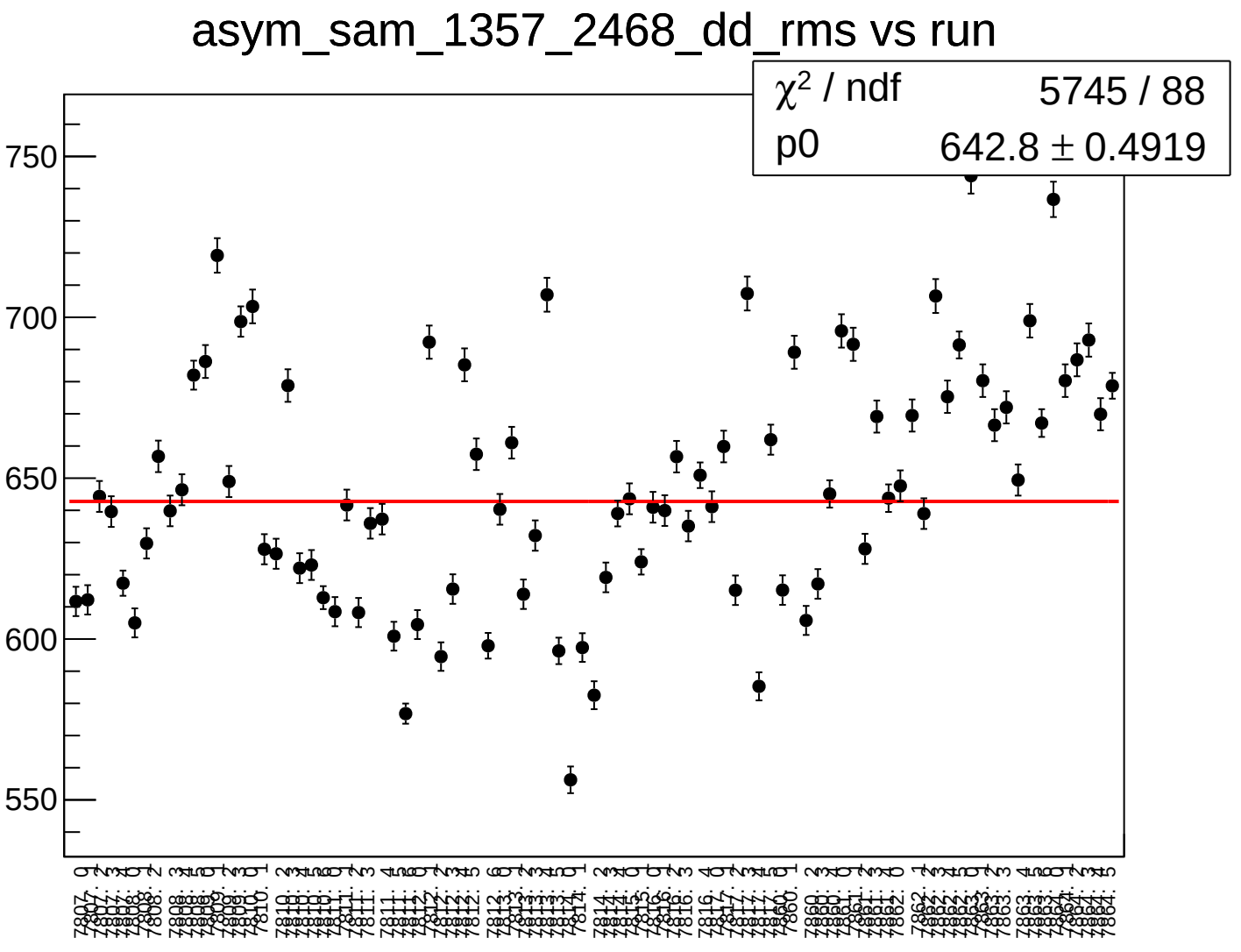

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 94.56 / 88
p0 325.6 ± 694.3
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 88.58
Std Dev 20.41
3
2
1
0
−1
−2

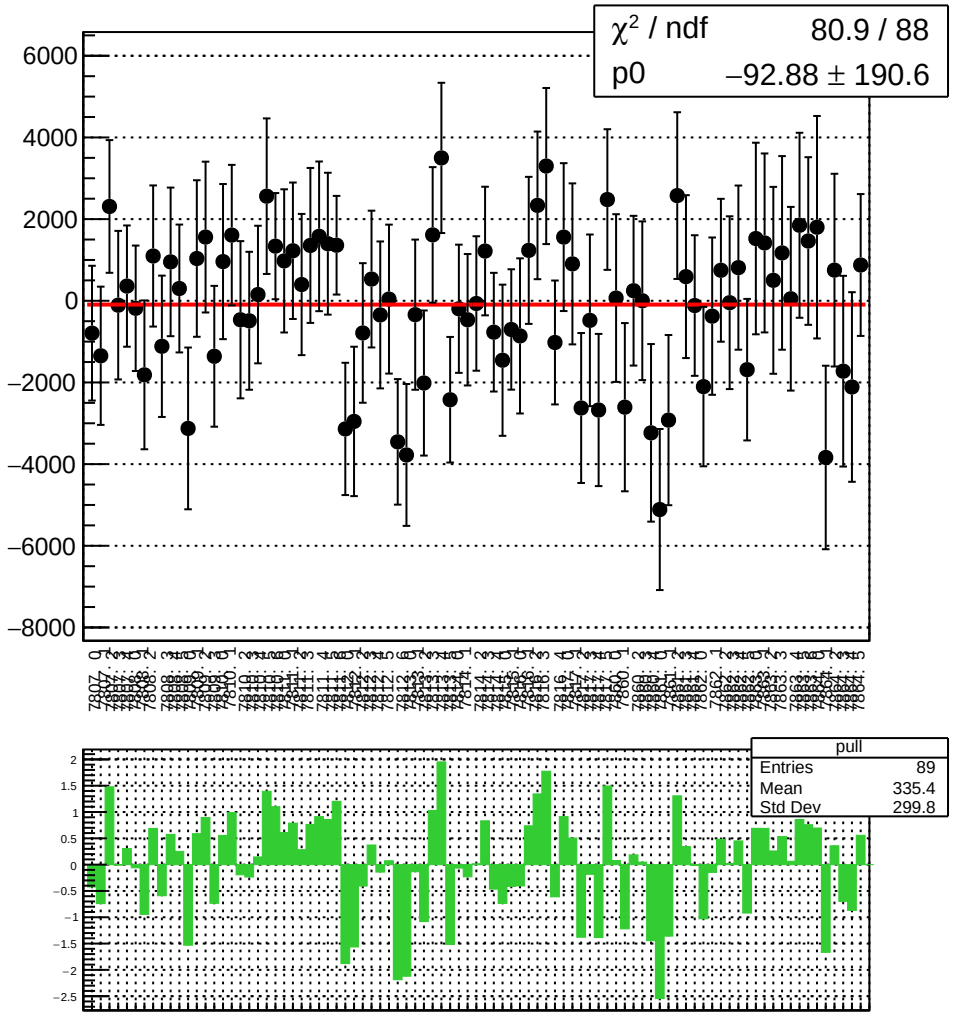

pull1D
Entries 89
Mean 0.01767
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

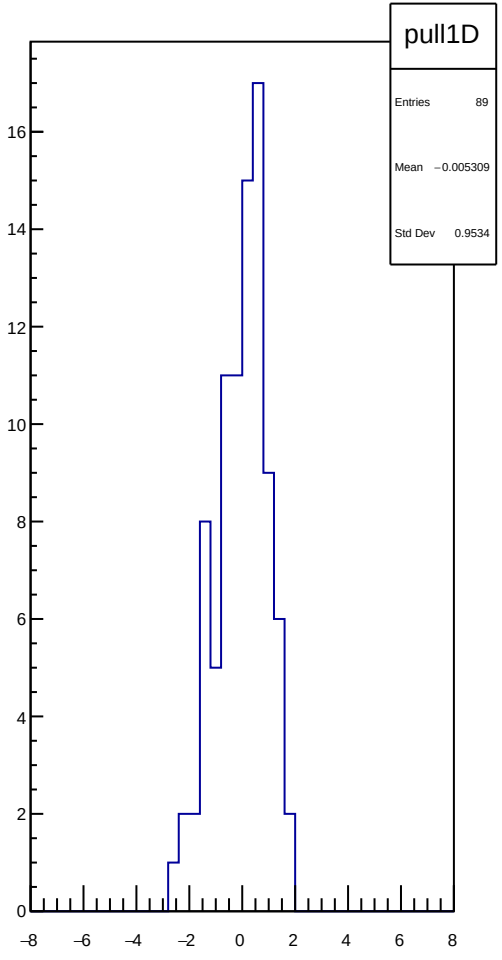

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 5737 / 88
p0 641.5 ± 0.4909
750
700
650
600
550

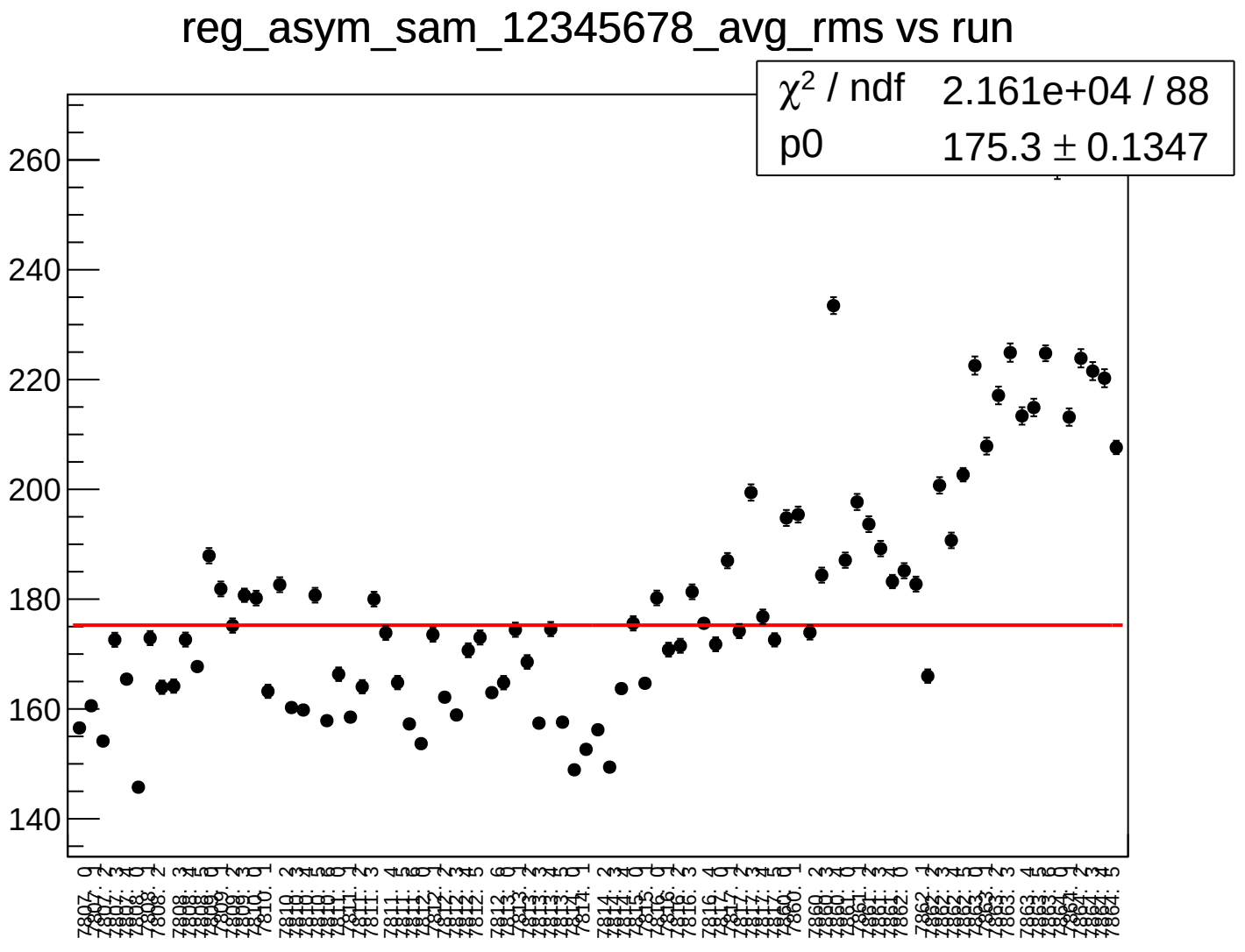

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 93.71 / 88
p0 −317.9 ± 695.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 89.22
Std Dev 24.85
2
1
0
−1
−2
−3

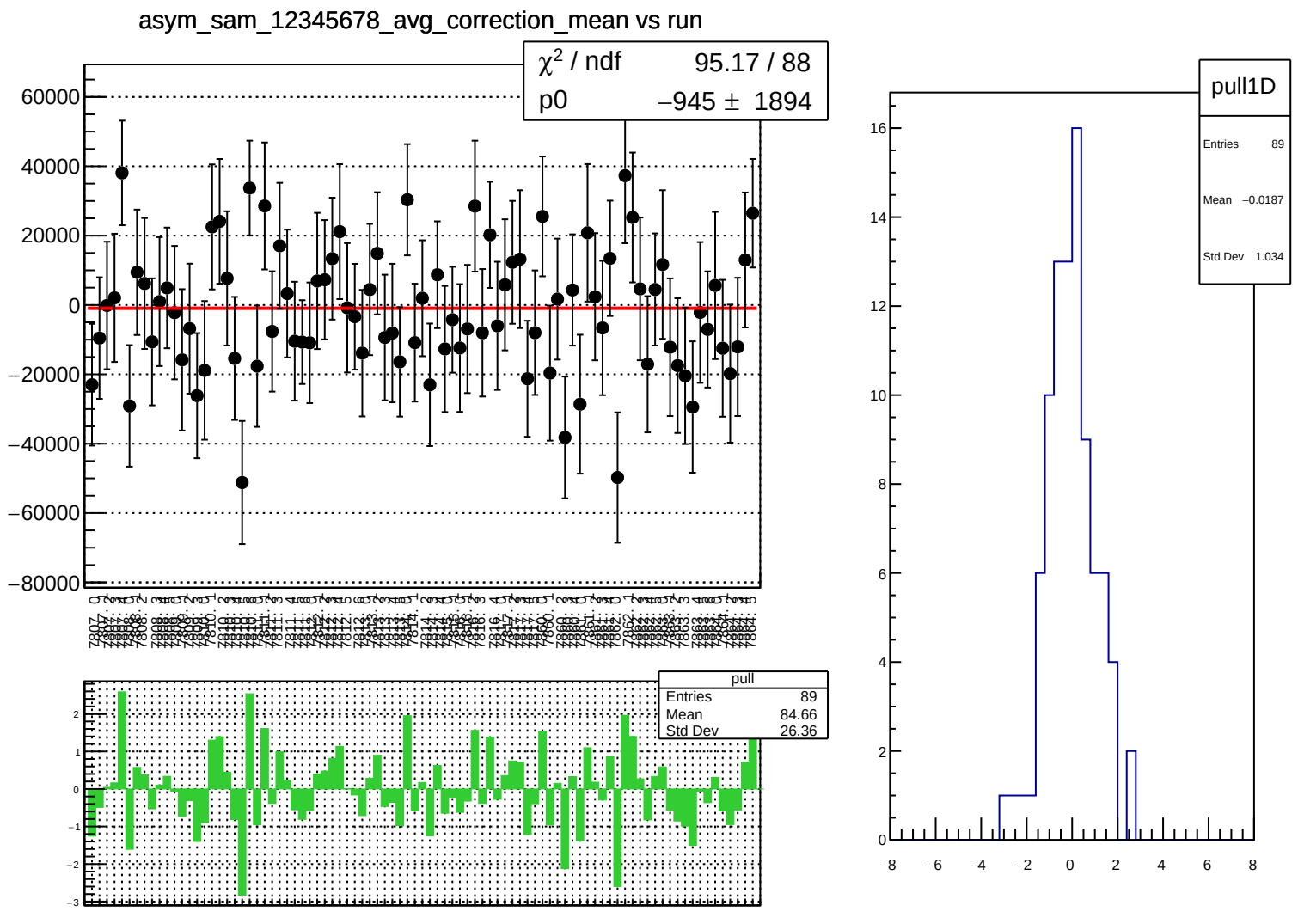

pull1D
Entries 89
Mean −0.01741
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

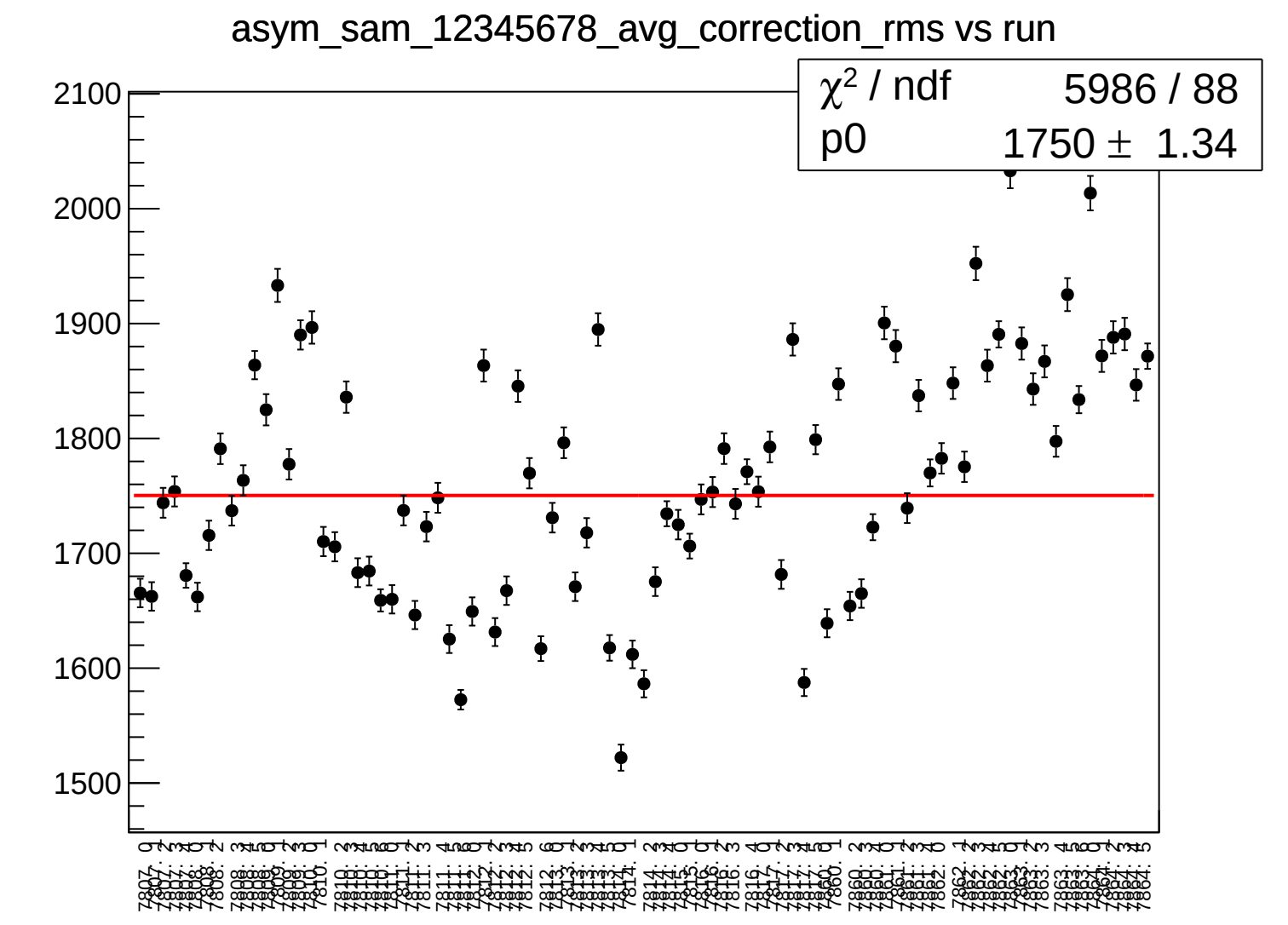

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 5745 / 88
p0 642.8 ± 0.4919
750
700
650
600
550

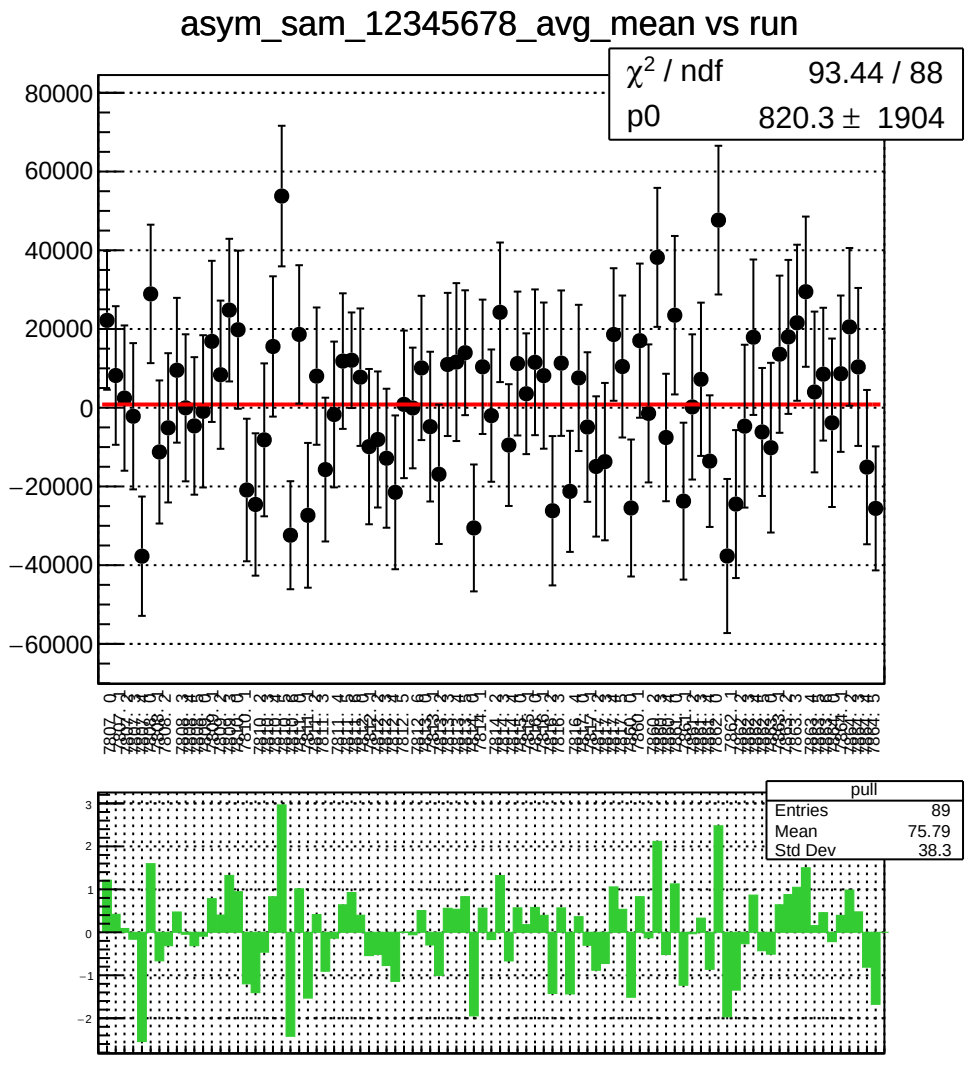

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 80.9 / 88
p0 −92.88 ± 190.6
pull
Entries 89
Mean 335.4
Std Dev 299.8

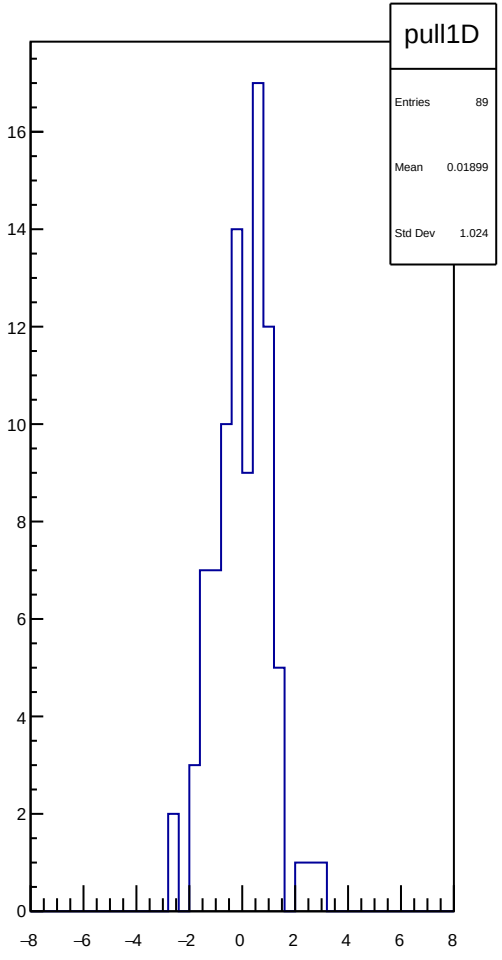

pull1D
Entries 89
Mean −0.005309
Std Dev 0.9534

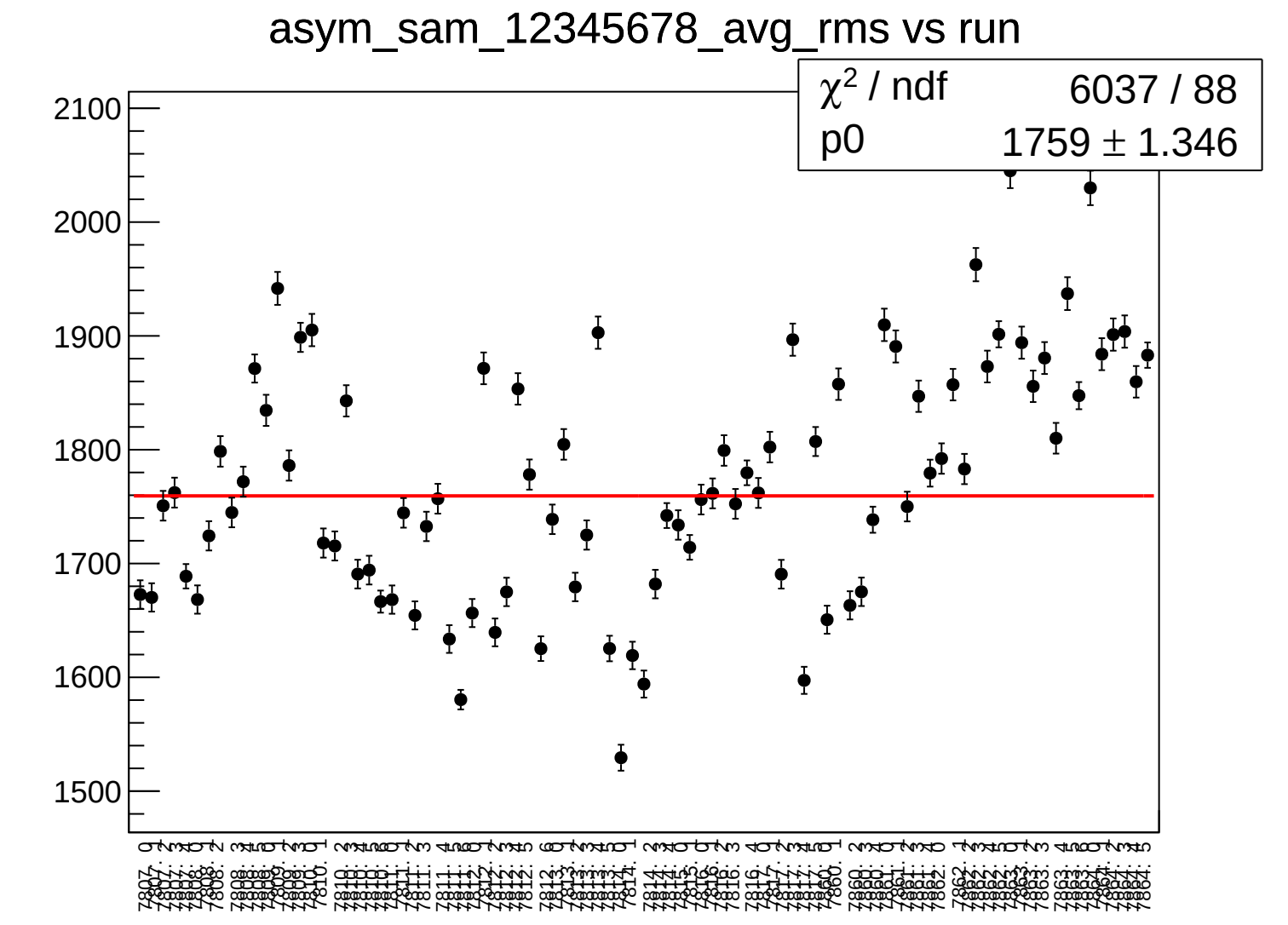

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.161e+04 / 88
p0 175.3 ± 0.1347
260
240
220
200
180
160
140

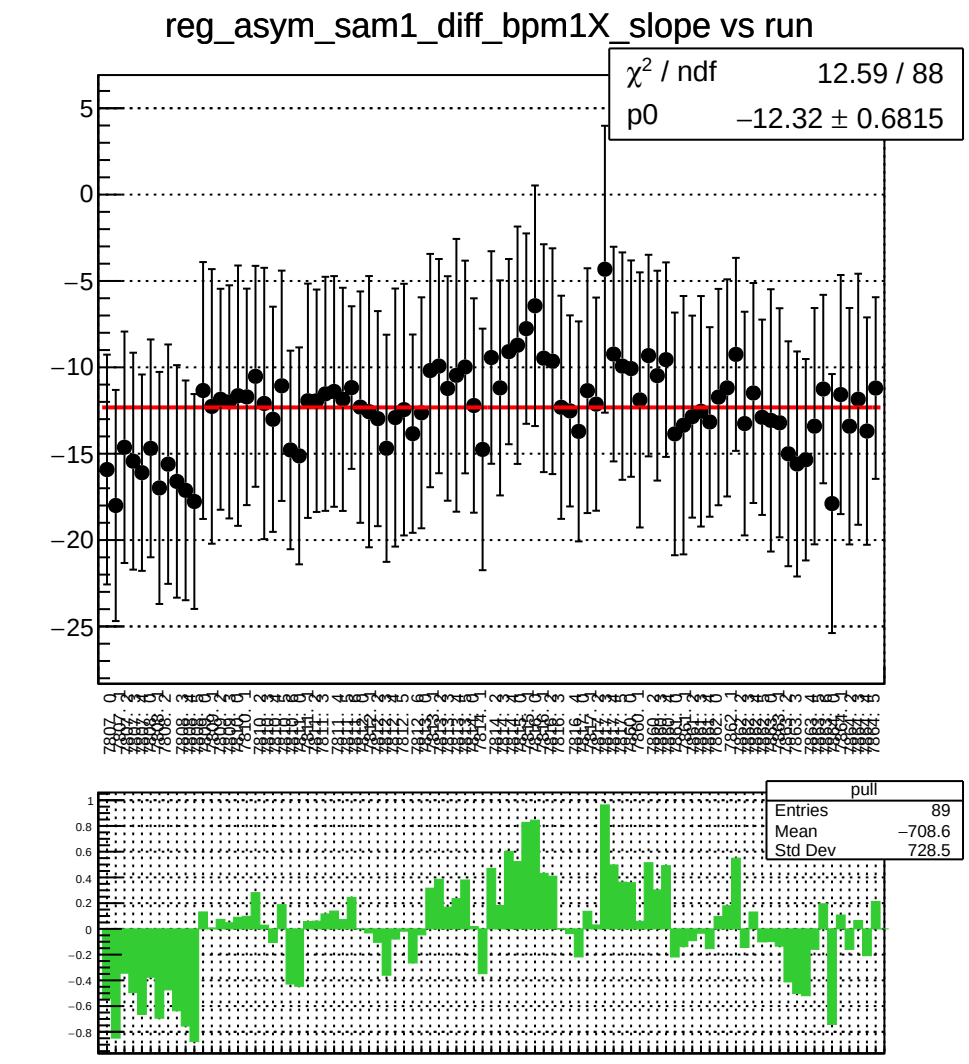

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 95.17 / 88
p0 −945 ± 1894
pull
Entries 89
Mean 84.66
Std Dev 26.36
pull1D
Entries 89
Mean −0.0187
Std Dev 1.034

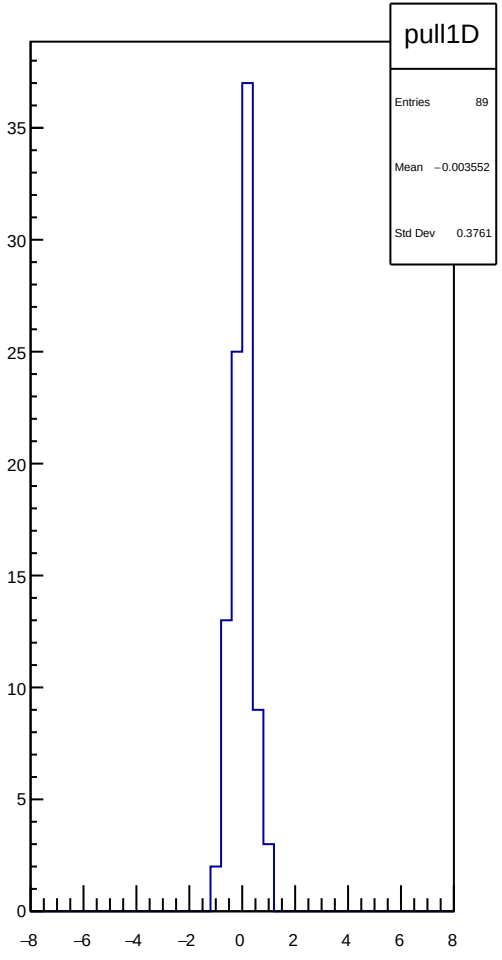

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 5986 / 88
p0 1750 ± 1.34
2100
2000
1900
1800
1700
1600
1500

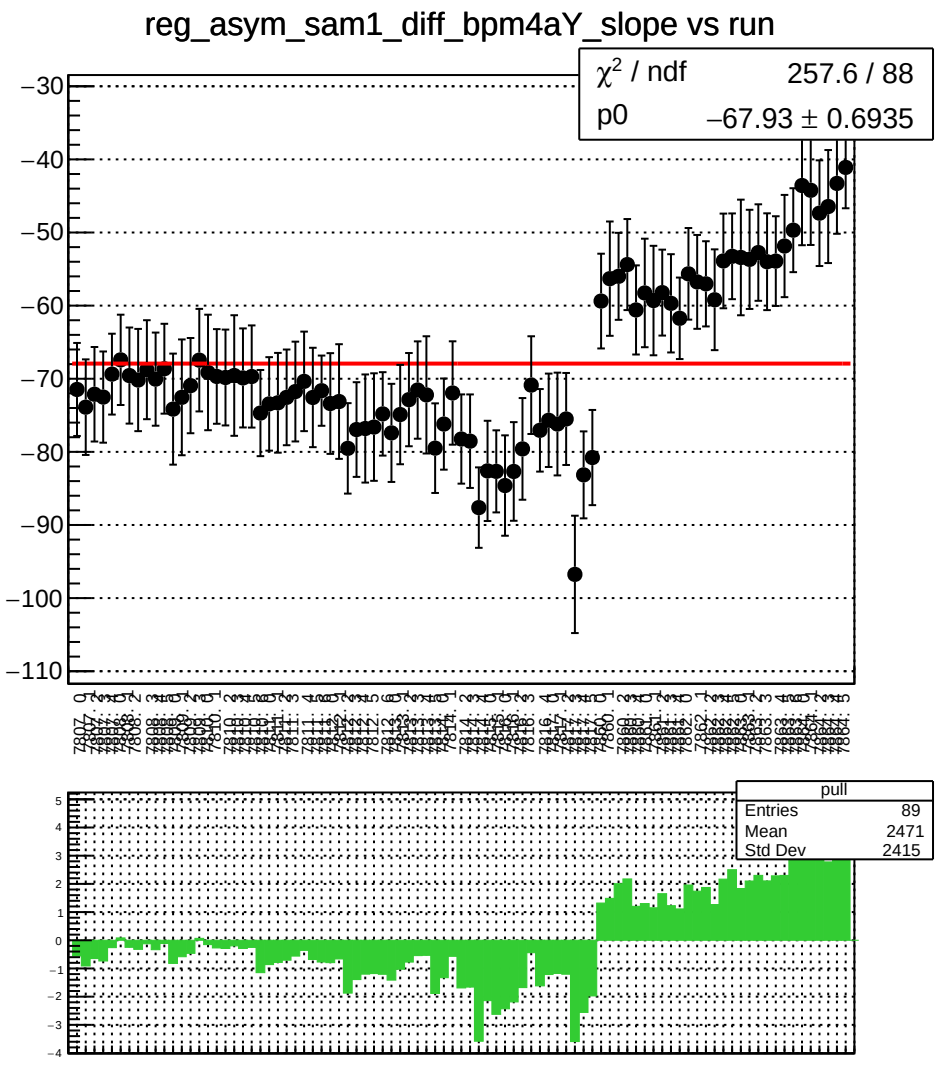

asym_sam_12345678_avg_mean vs run
χ² / ndf 93.44 / 88
p0 820.3 ± 1904
pull
Entries 89
Mean 75.79
Std Dev 38.3

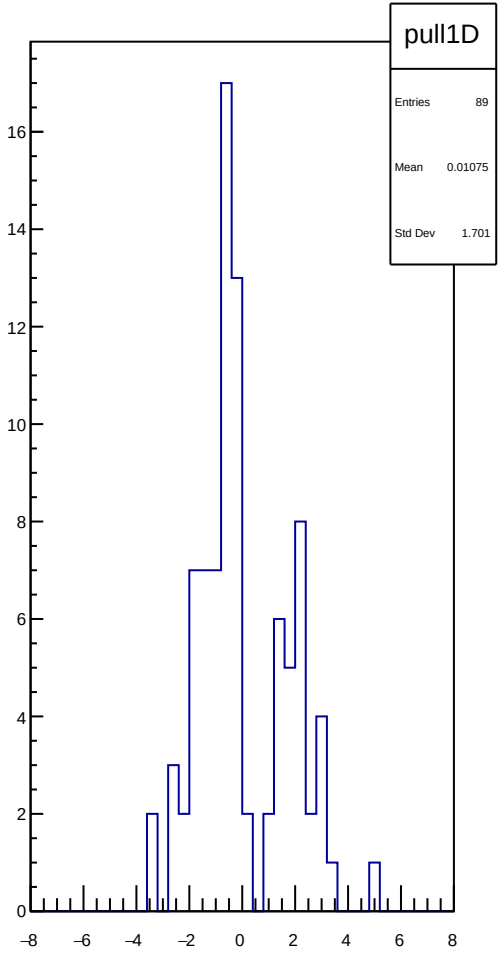

pull1D
Entries 89
Mean 0.01899
Std Dev 1.024

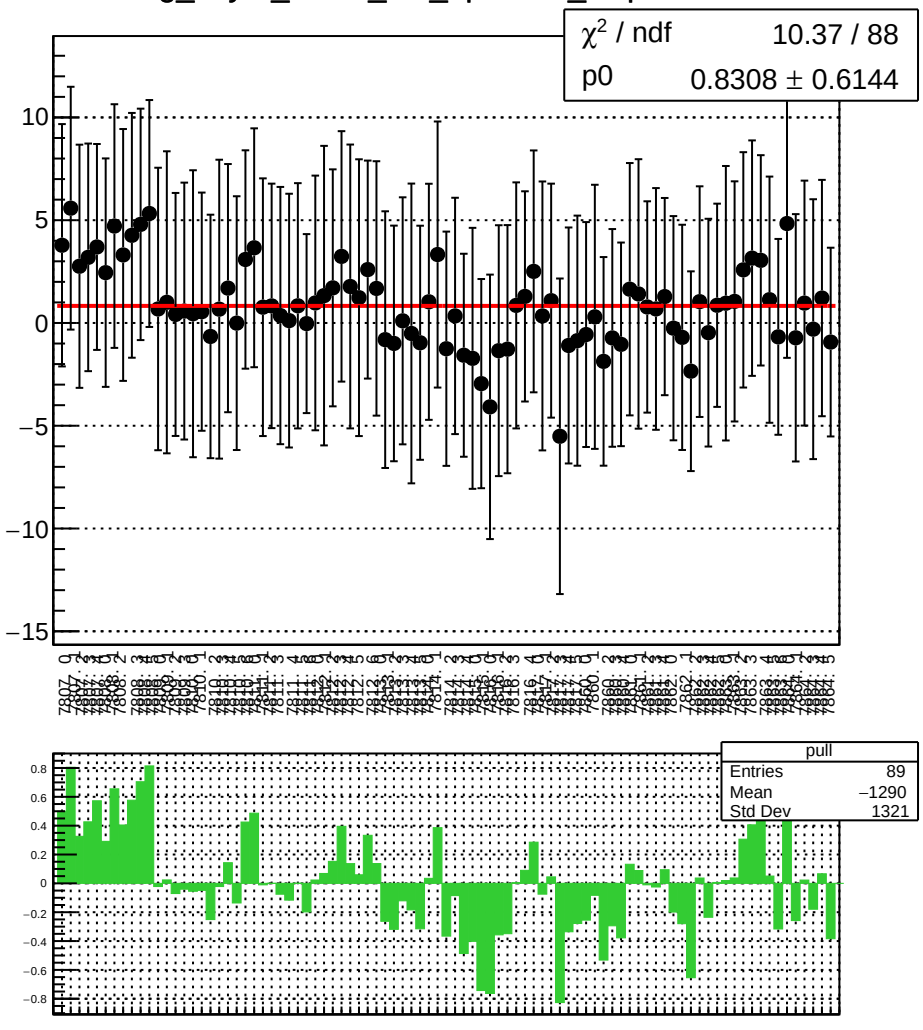

asym_sam_12345678_avg_rms vs run
χ² / ndf 6037 / 88
p0 1759 ± 1.346
2100
2000
1900
1800
1700
1600
1500

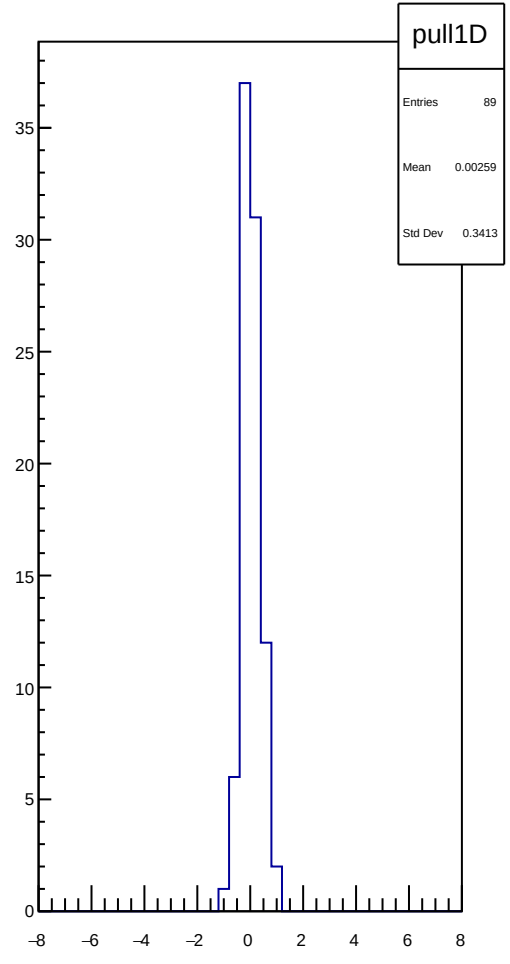

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 12.59 / 88
p0 −12.32 ± 0.6815
pull
Entries 89
Mean −708.6
Std Dev 728.5

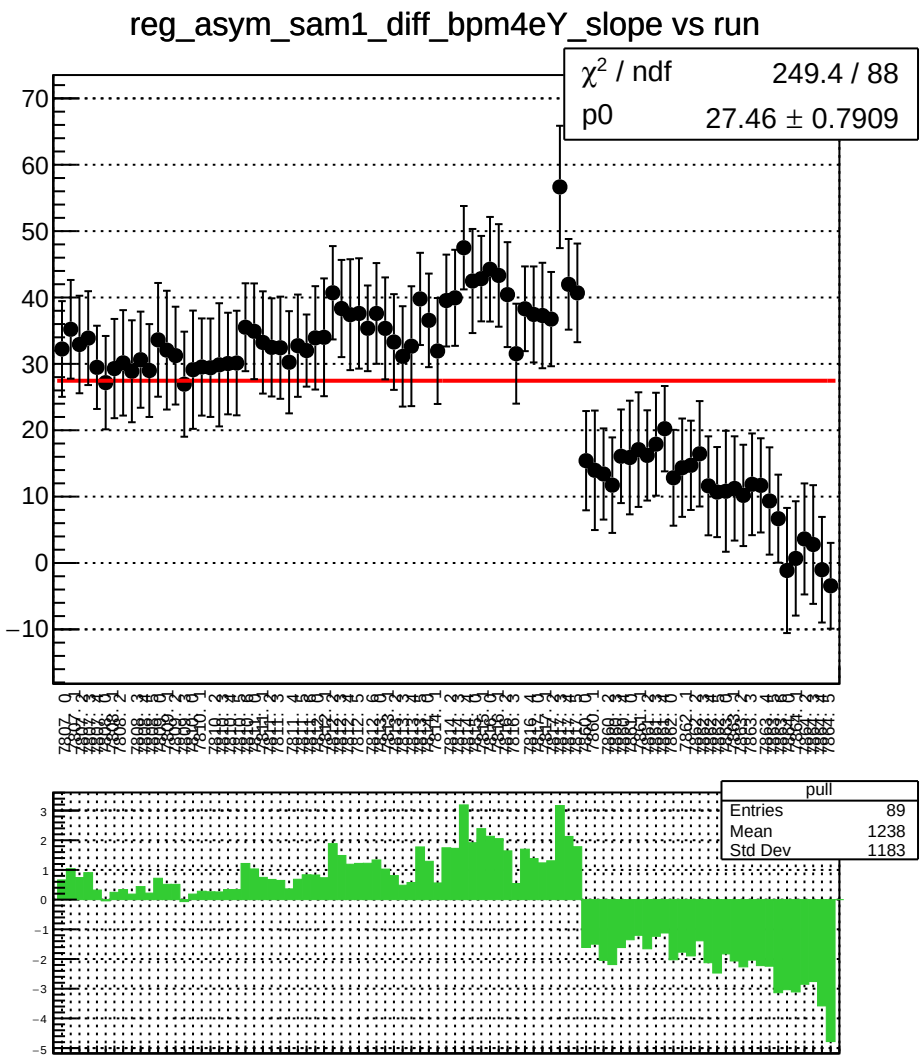

pull1D
Entries 89
Mean −0.003552
Std Dev 0.3761

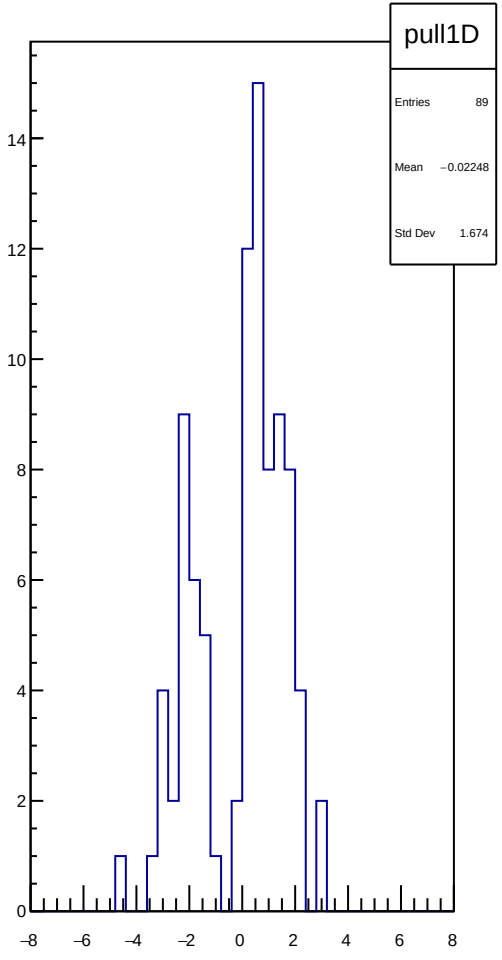

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 257.6 / 88
p0 −67.93 ± 0.6935
pull
Entries 89
Mean 2471
Std Dev 2415

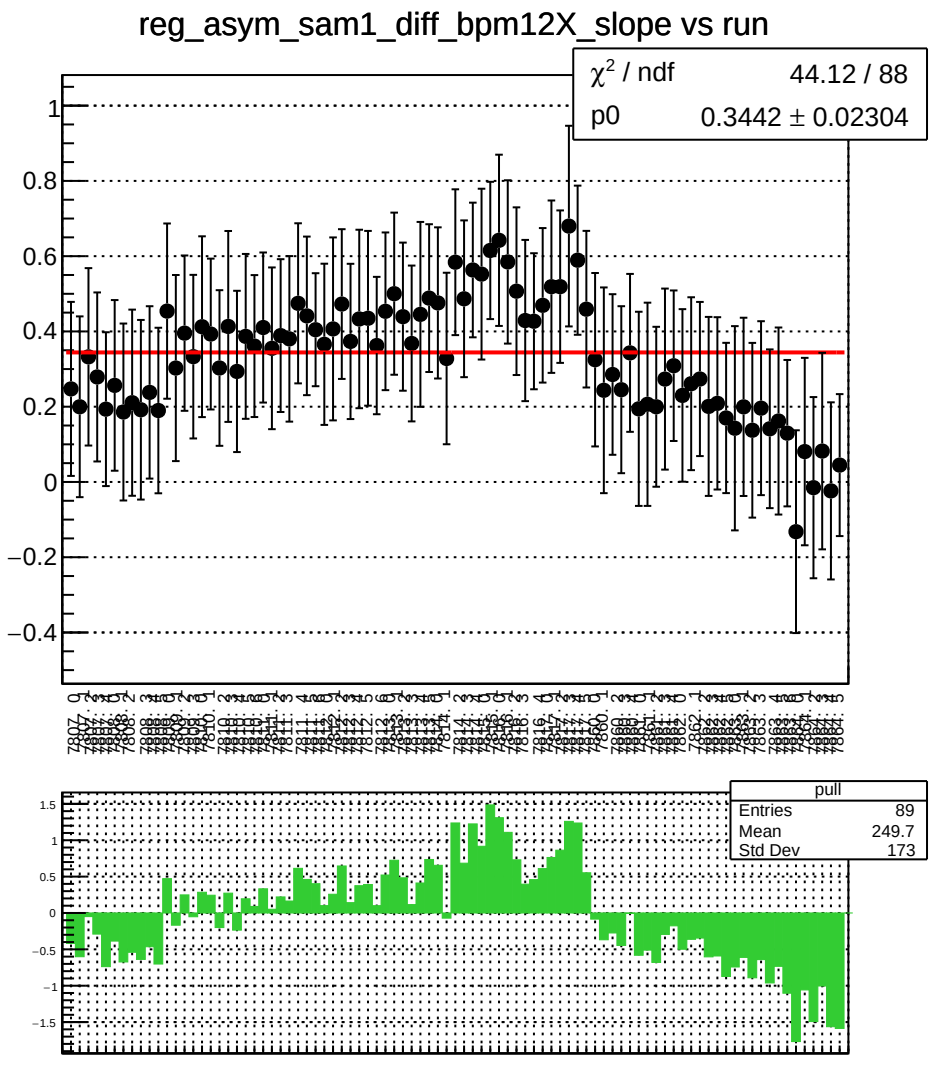

pull1D
Entries 89
Mean 0.01075
Std Dev 1.701

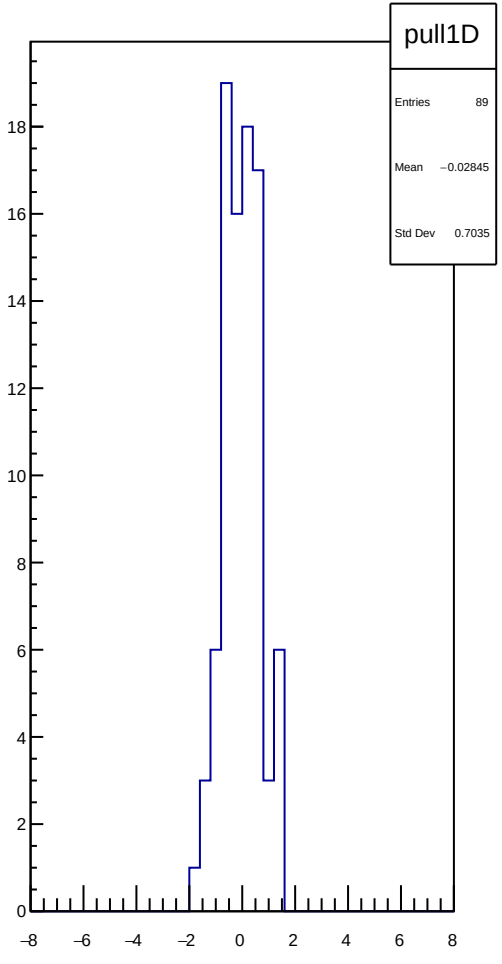

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 10.37 / 88
p0 0.8308 ± 0.6144
pull
Entries 89
Mean −1290
Std Dev 1321

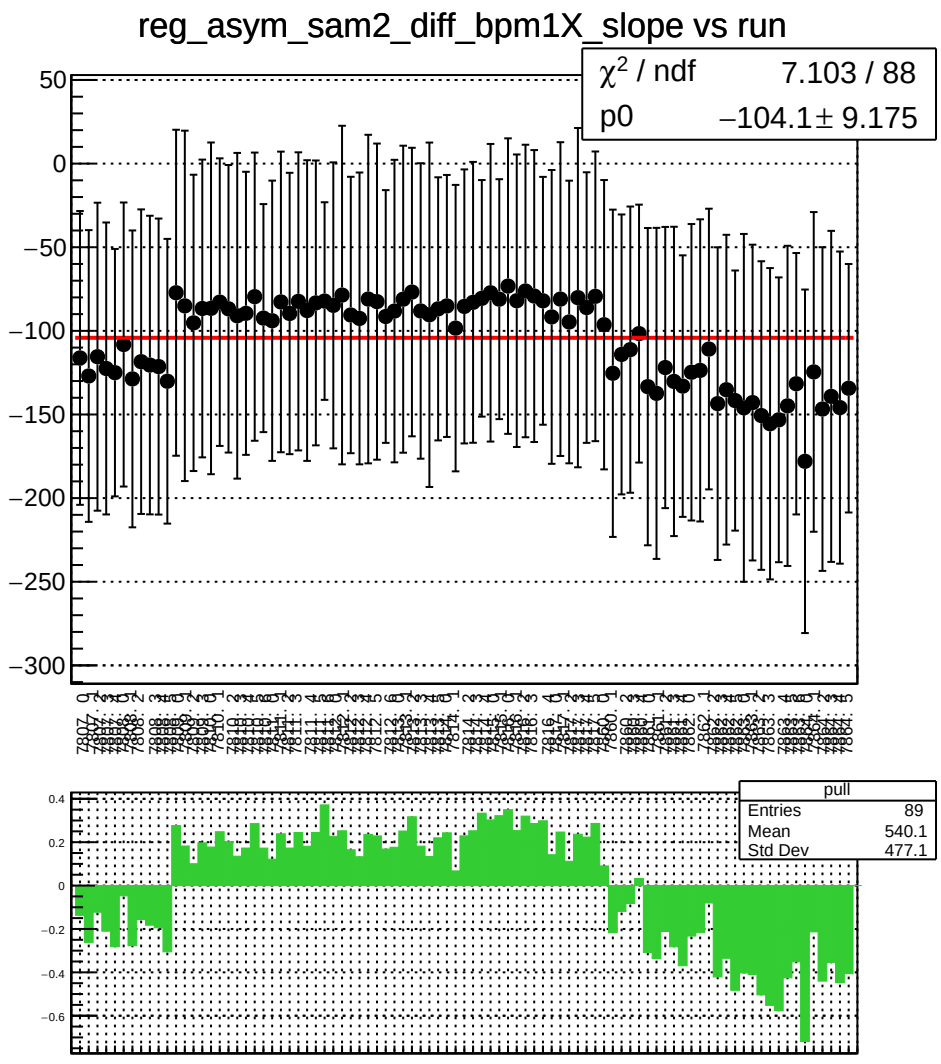

pull1D
Entries 89
Mean 0.00259
Std Dev 0.3413

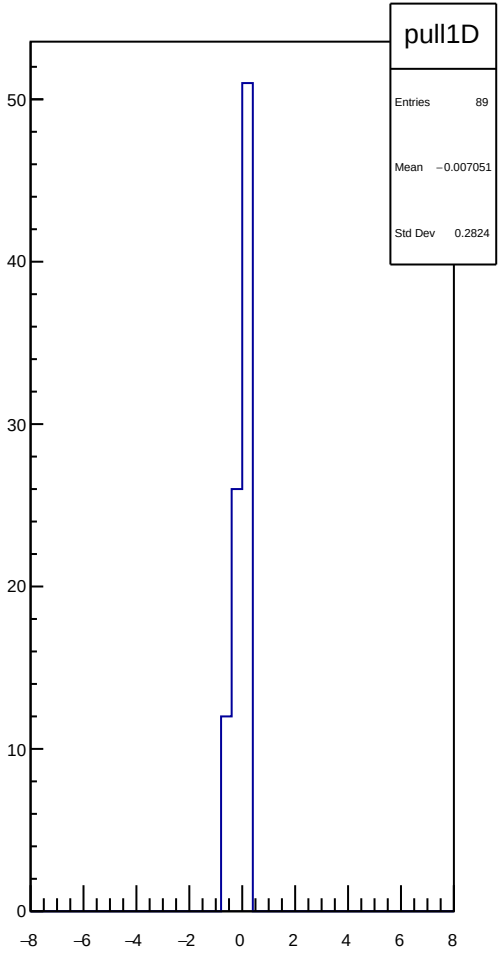

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 249.4 / 88
p0 27.46 ± 0.7909
pull
Entries 89
Mean 1238
Std Dev 1183

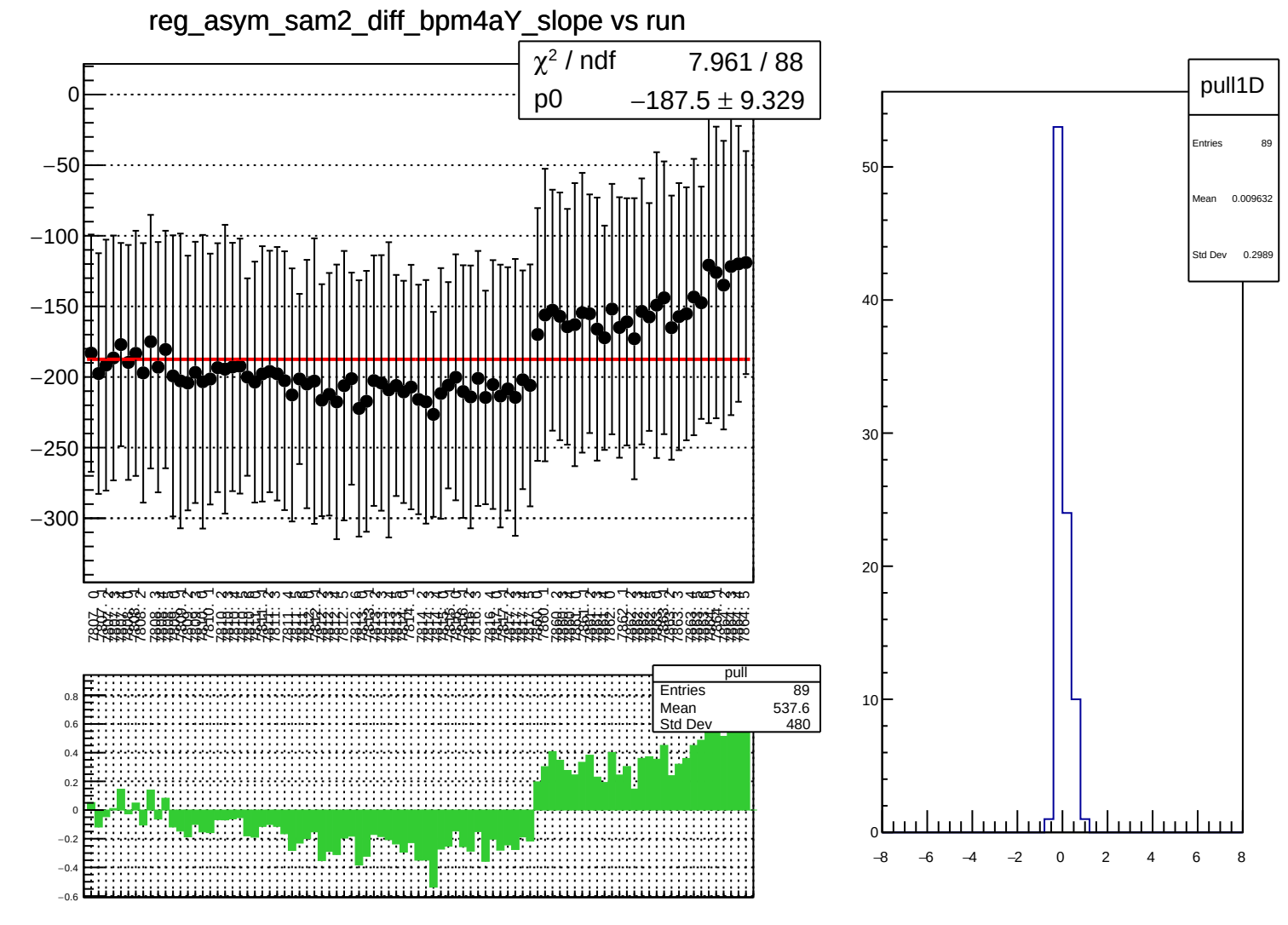

pull1D
Entries 89
Mean −0.02248
Std Dev 1.674

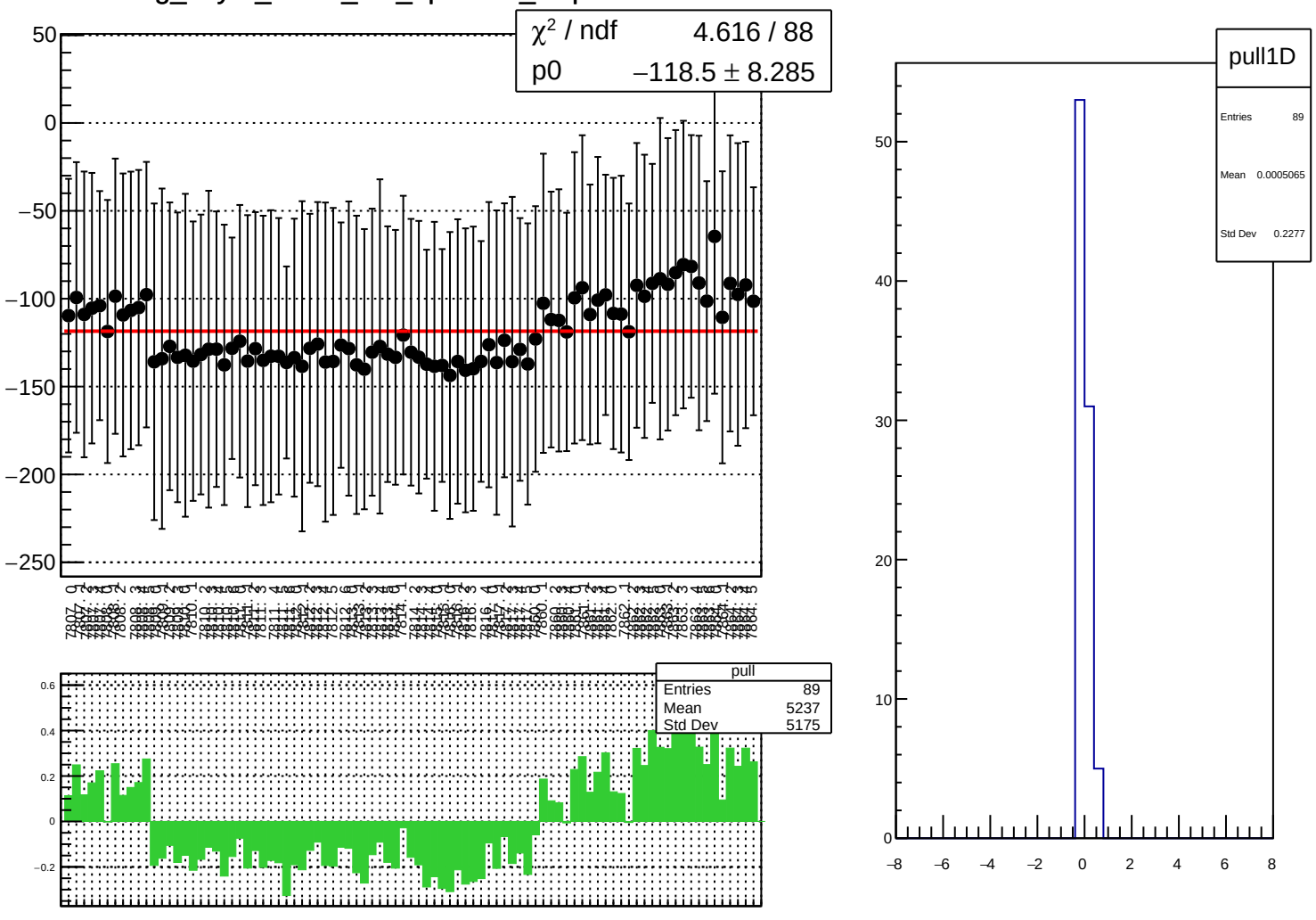

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 44.12 / 88
p0 0.3442 ± 0.02304
pull
Entries 89
Mean 249.7
Std Dev 173

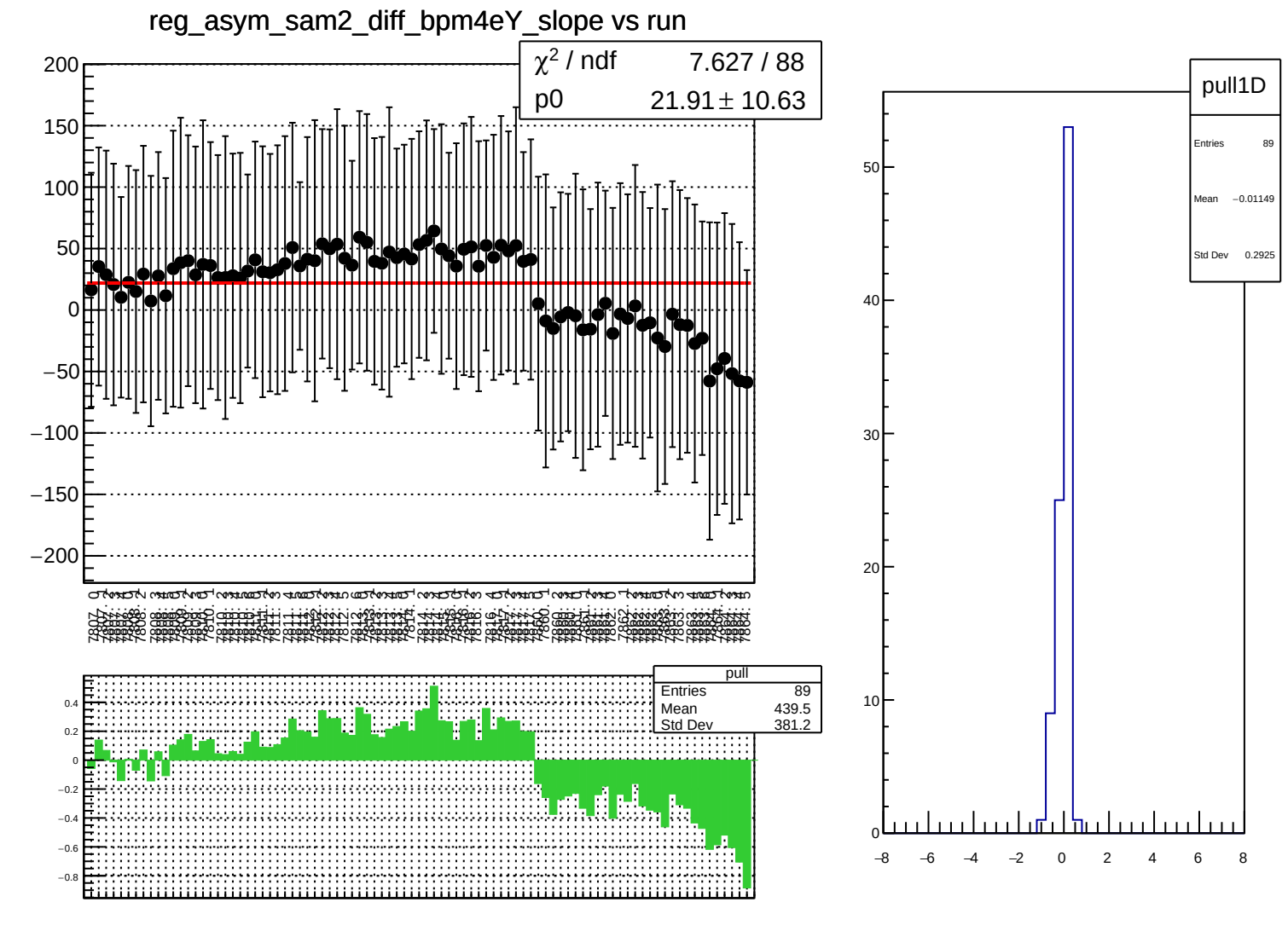

pull1D
Entries 89
Mean −0.02845
Std Dev 0.7035

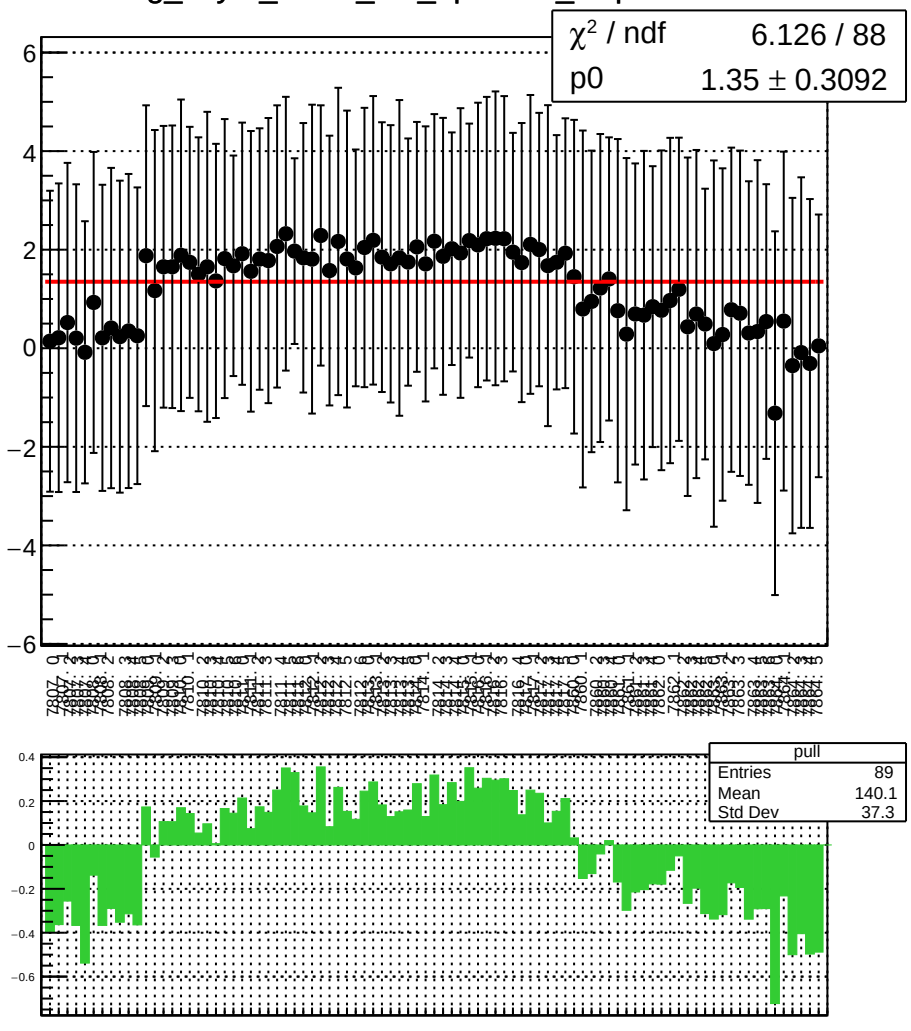

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 7.103 / 88
p0 −104.1± 9.175
pull
Entries 89
Mean 540.1
Std Dev 477.1

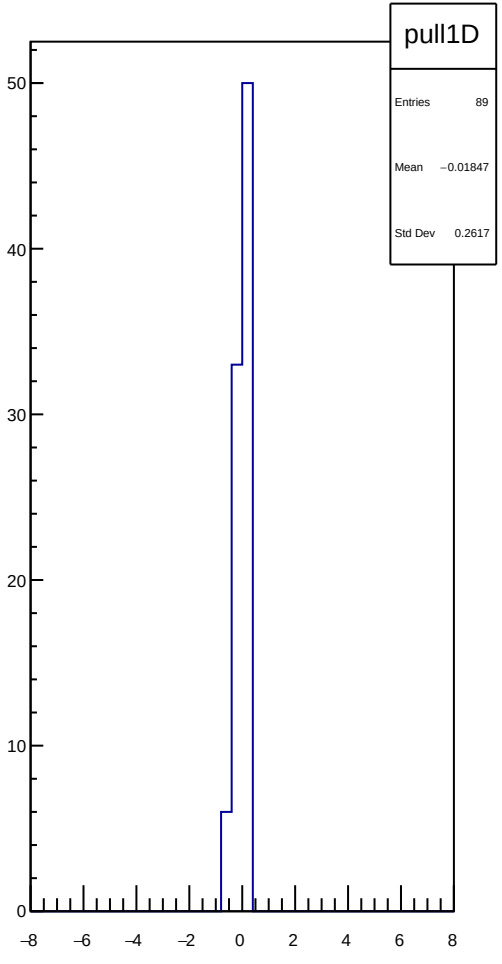

pull1D
Entries 89
Mean −0.007051
Std Dev 0.2824

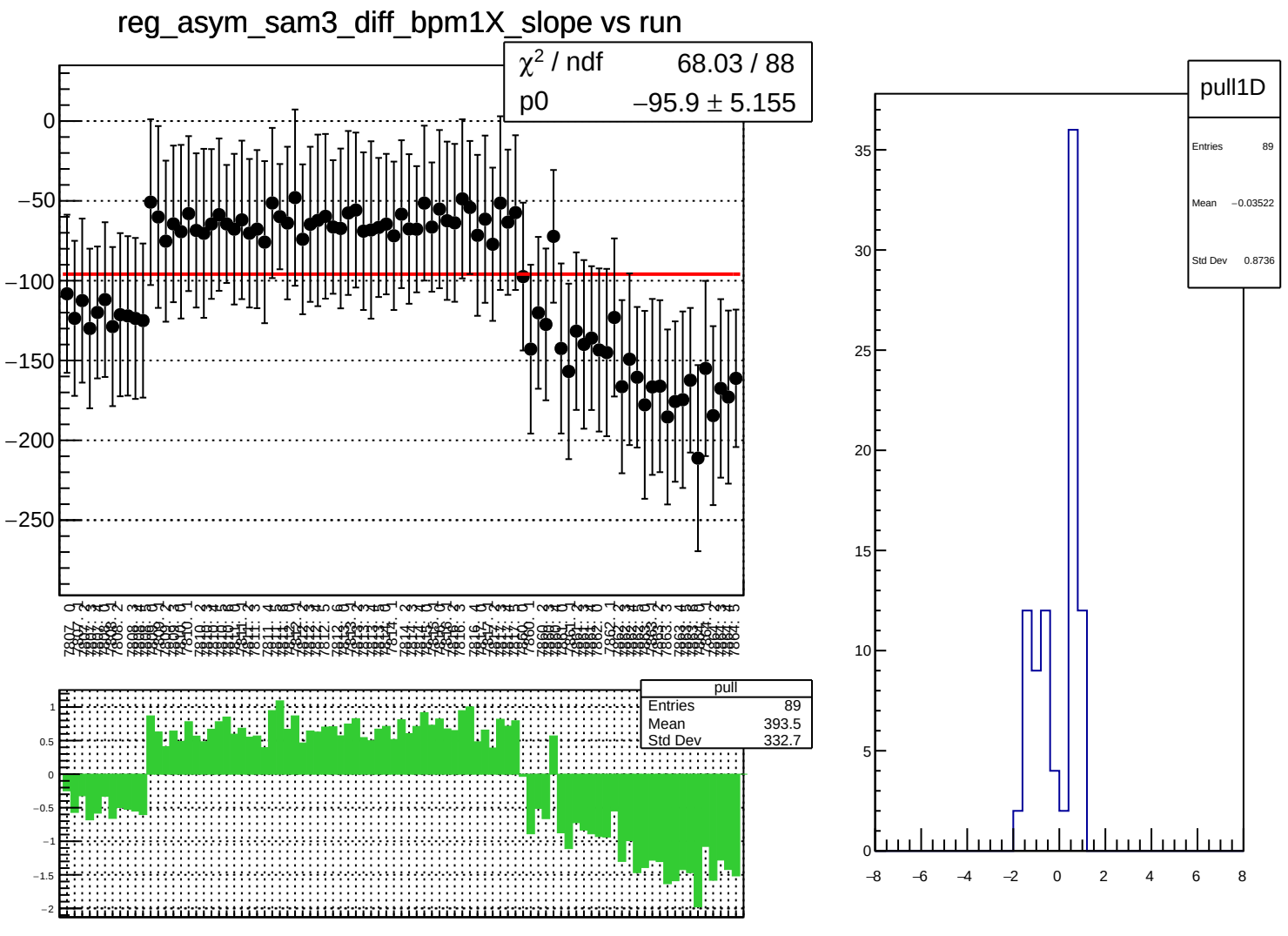

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 7.961 / 88
p0 −187.5 ± 9.329
pull
Entries 89
Mean 537.6
Std Dev 480
pull1D
Entries 89
Mean 0.009632
Std Dev 0.2989

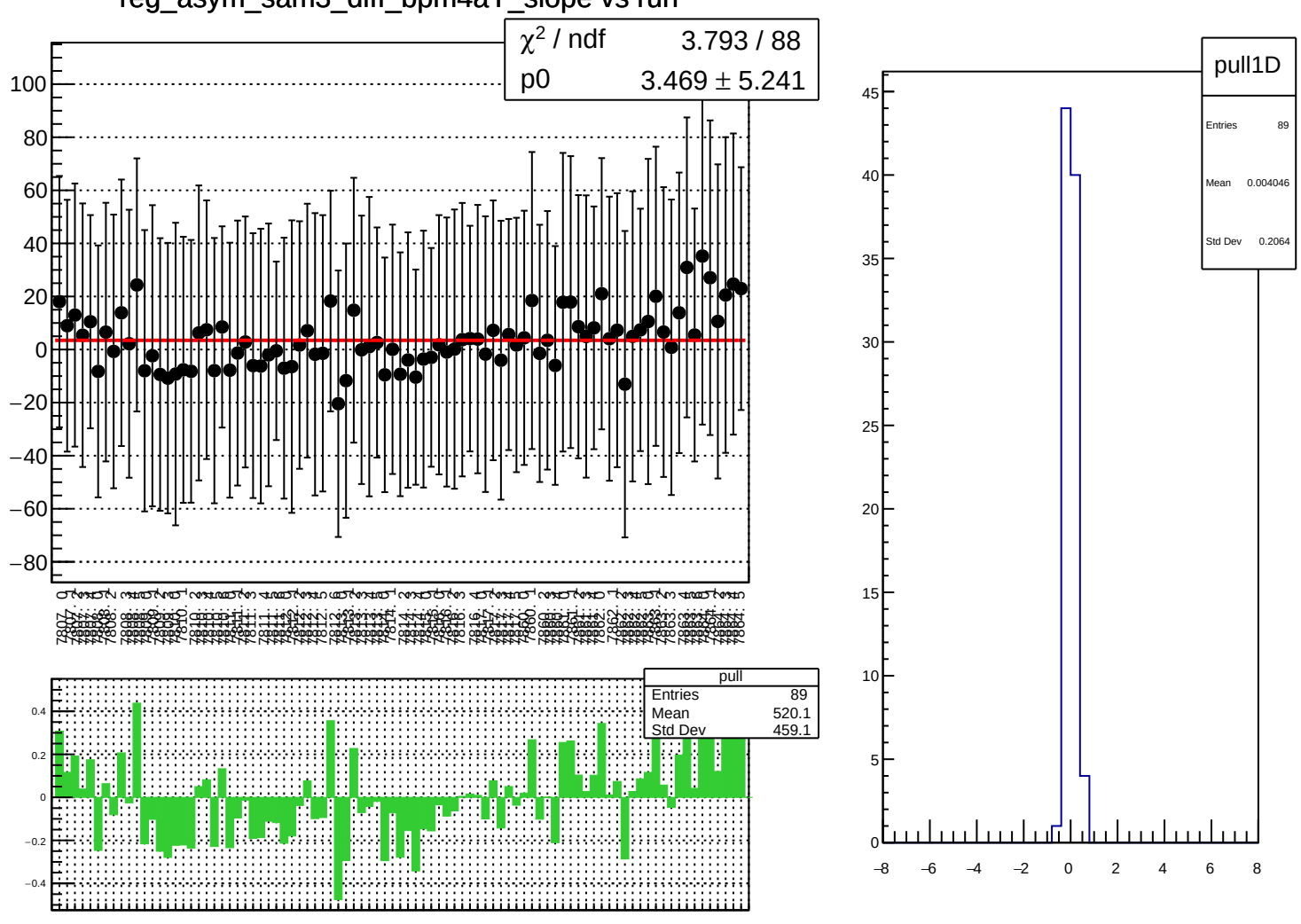

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 4.616 / 88
p0 −118.5 ± 8.285
pull
Entries 89
Mean 5237
Std Dev 5175
pull1D
Entries 89
Mean 0.0005065
Std Dev 0.2277

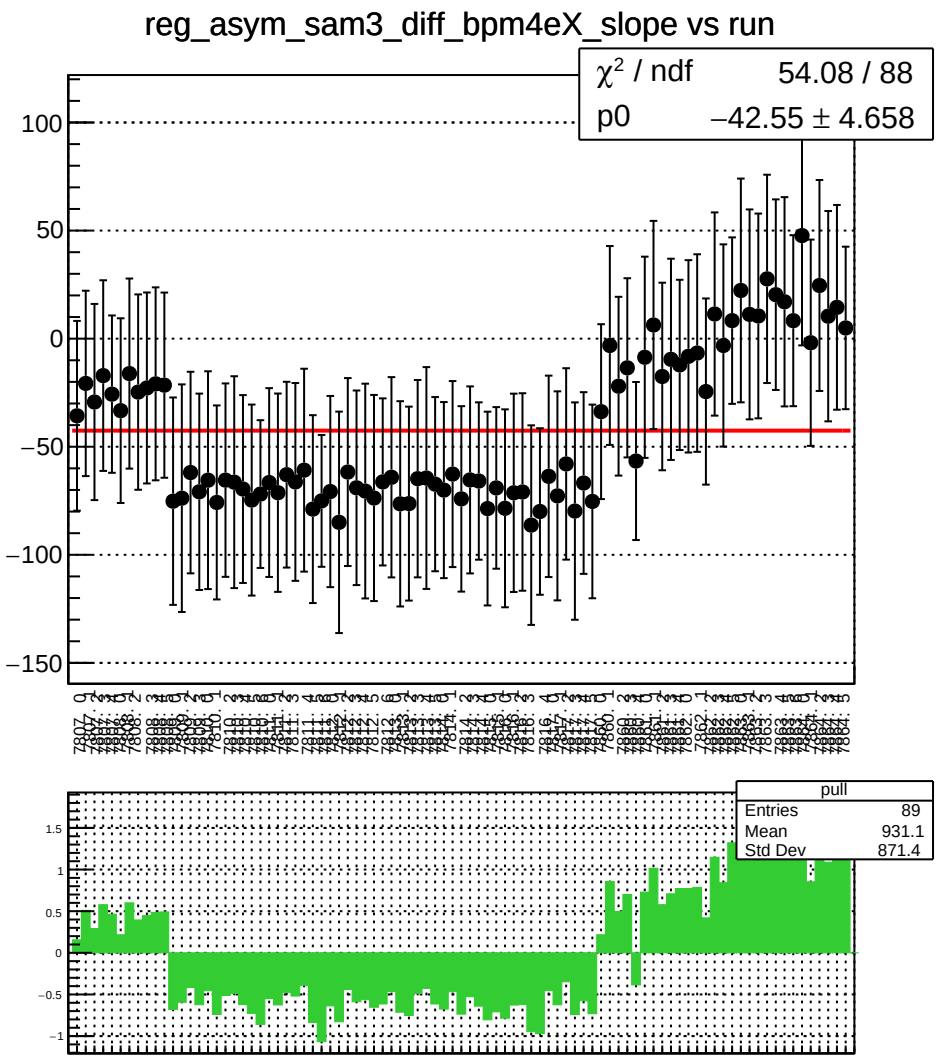

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 7.627 / 88
p0 21.91 ± 10.63
pull
Entries 89
Mean 439.5
Std Dev 381.2
pull1D
Entries 89
Mean −0.01149
Std Dev 0.2925

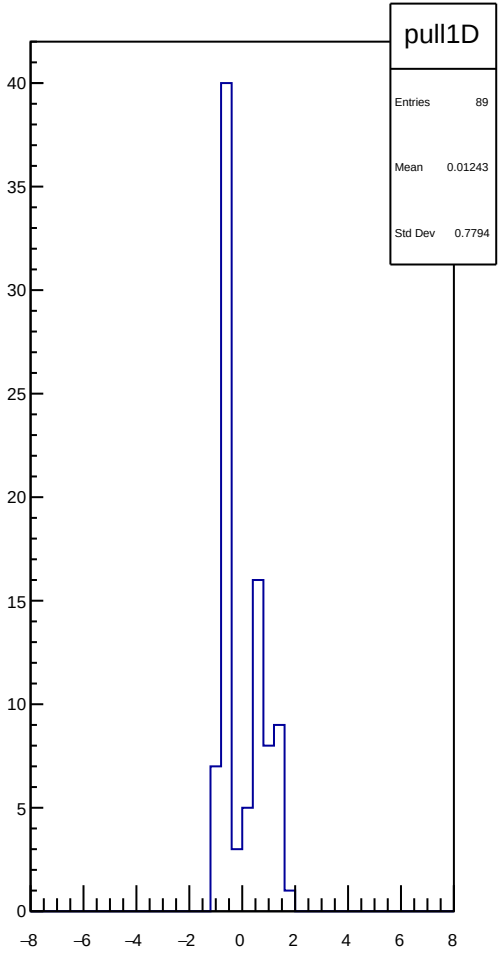

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 6.126 / 88
p0 1.35 ± 0.3092
pull
Entries 89
Mean 140.1
Std Dev 37.3

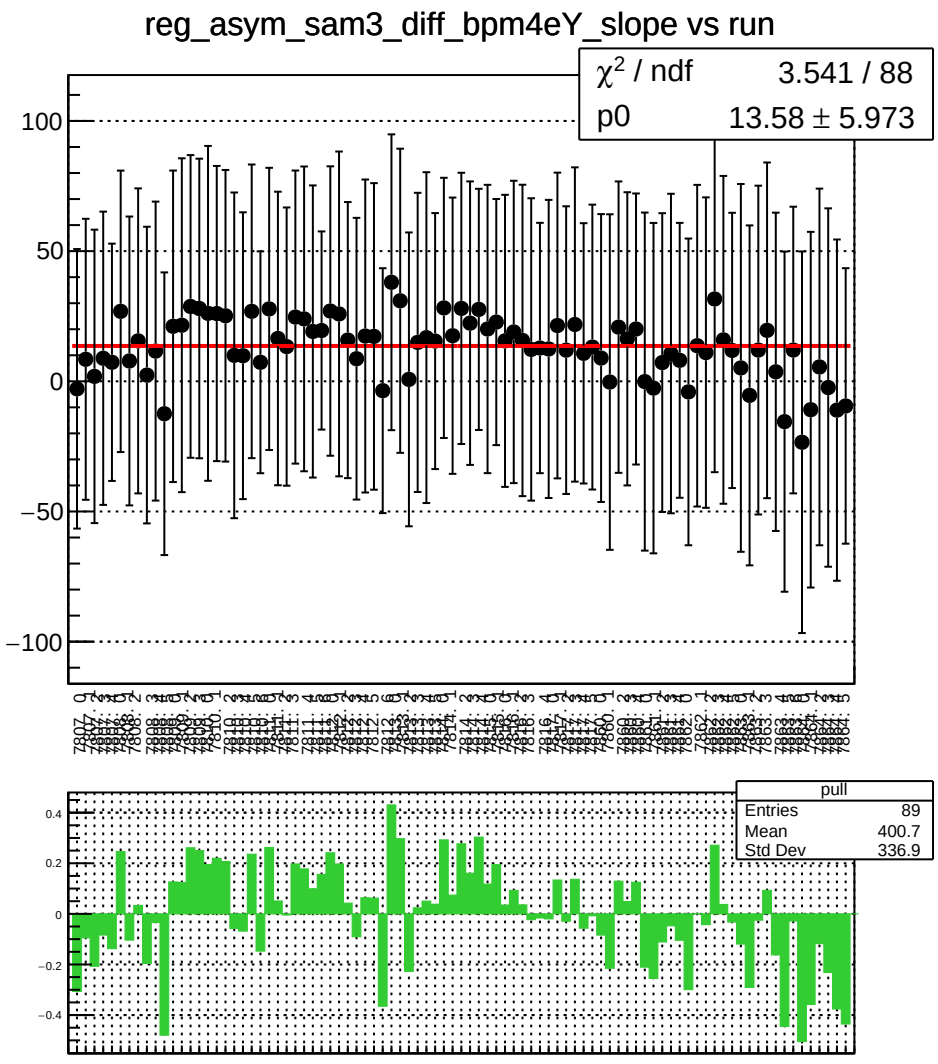

pull1D
Entries 89
Mean −0.01847
Std Dev 0.2617

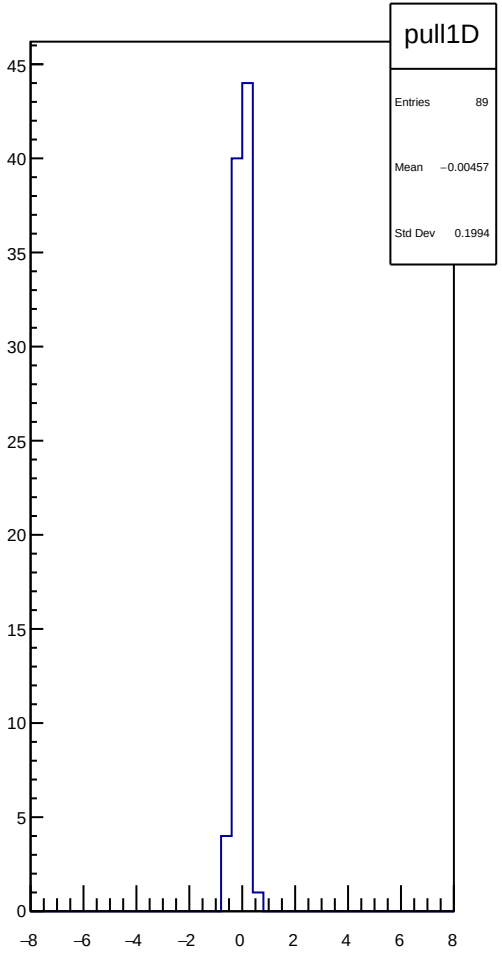

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 68.03 / 88
p0 −95.9 ± 5.155
pull
Entries 89
Mean 393.5
Std Dev 332.7
pull1D
Entries 89
Mean −0.03522
Std Dev 0.8736

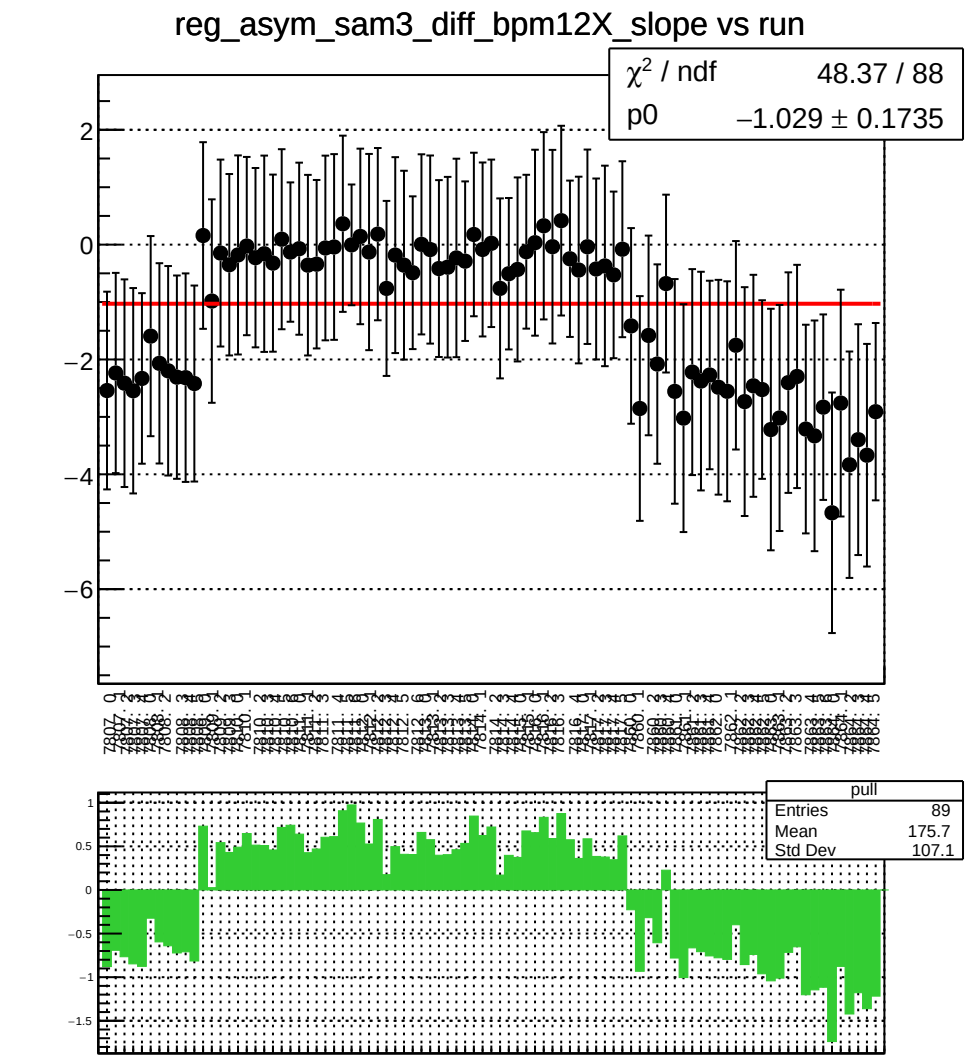

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 3.793 / 88
p0 3.469 ± 5.241
pull
Entries 89
Mean 520.1
Std Dev 459.1
pull1D
Entries 89
Mean 0.004046
Std Dev 0.2064

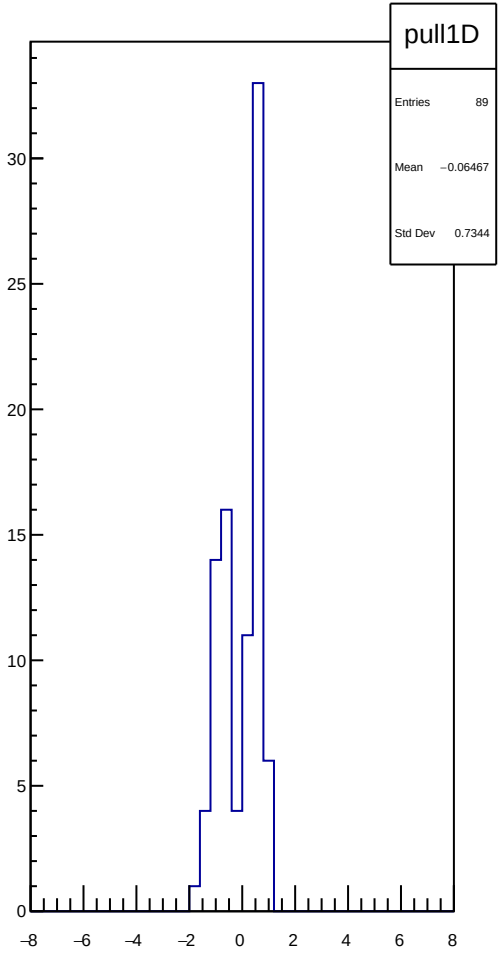

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 54.08 / 88
p0 −42.55 ± 4.658
pull
Entries 89
Mean 931.1
Std Dev 871.4

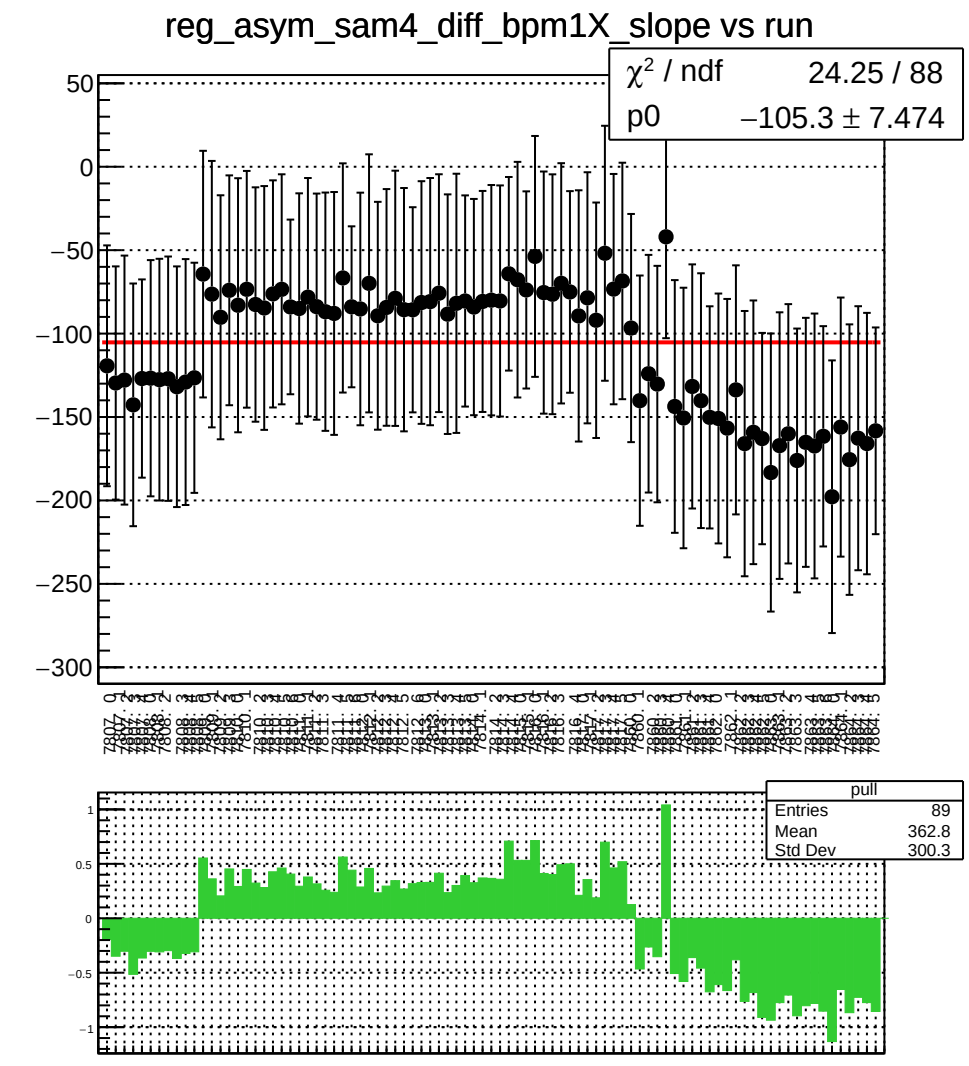

pull1D
Entries 89
Mean 0.01243
Std Dev 0.7794

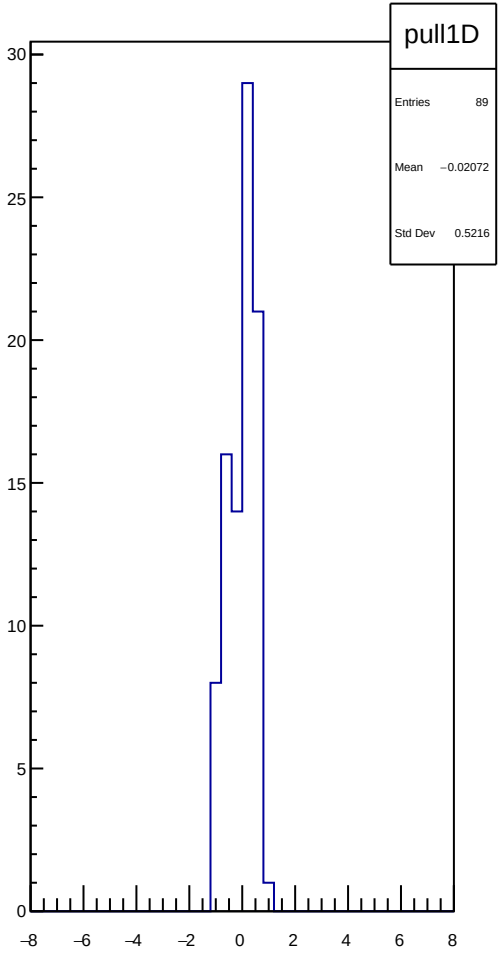

reg_asym_sam3_diff_bpm4eY_slope vs run
χ^2 / ndf 3.541 / 88
p0 13.58 ± 5.973
100
50
0
−50
−100
pull
Entries 89
Mean 400.7
Std Dev 336.9
0.4
0.2
0
−0.2
−0.4

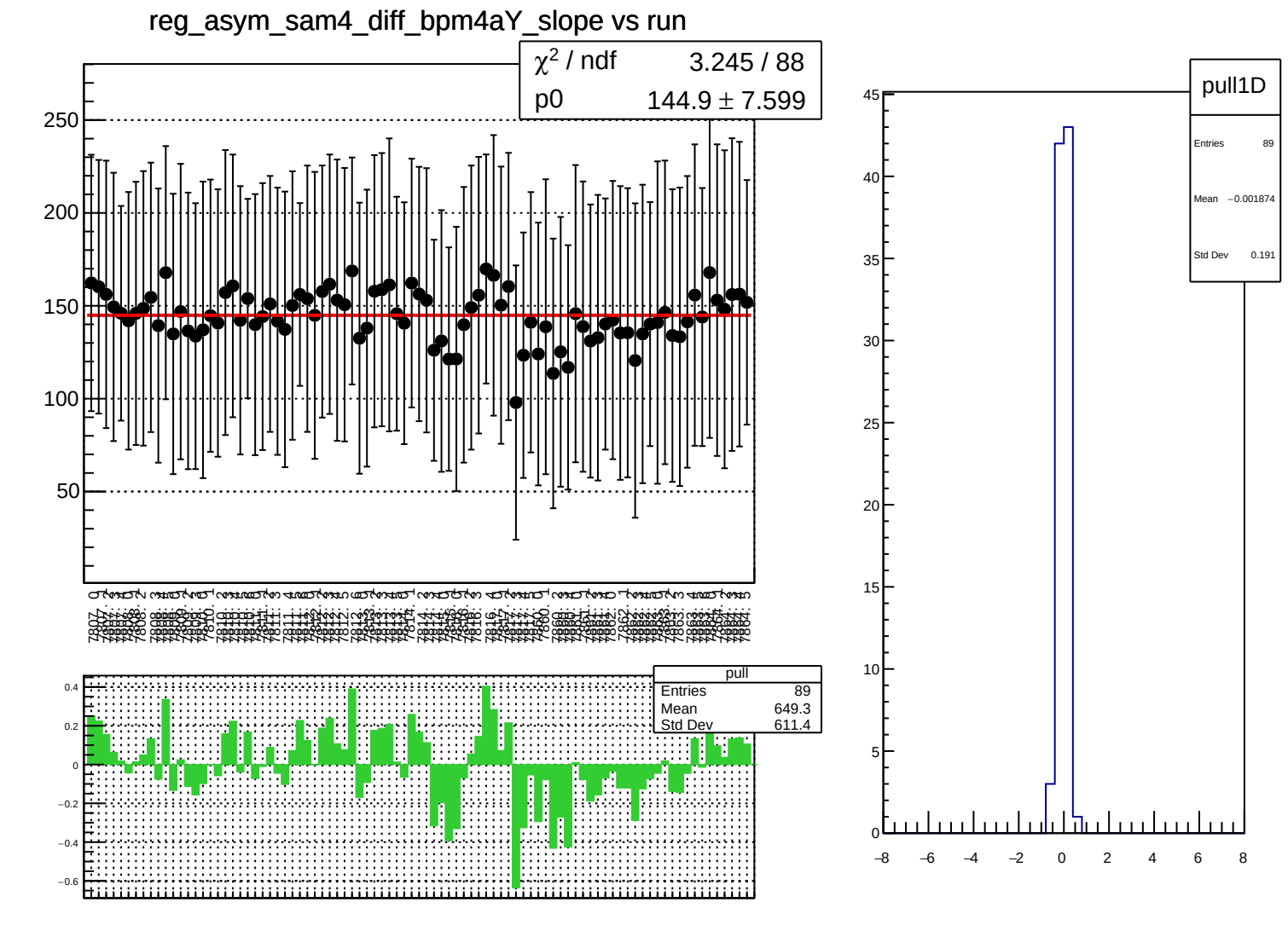

pull1D
Entries 89
Mean −0.00457
Std Dev 0.1994
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

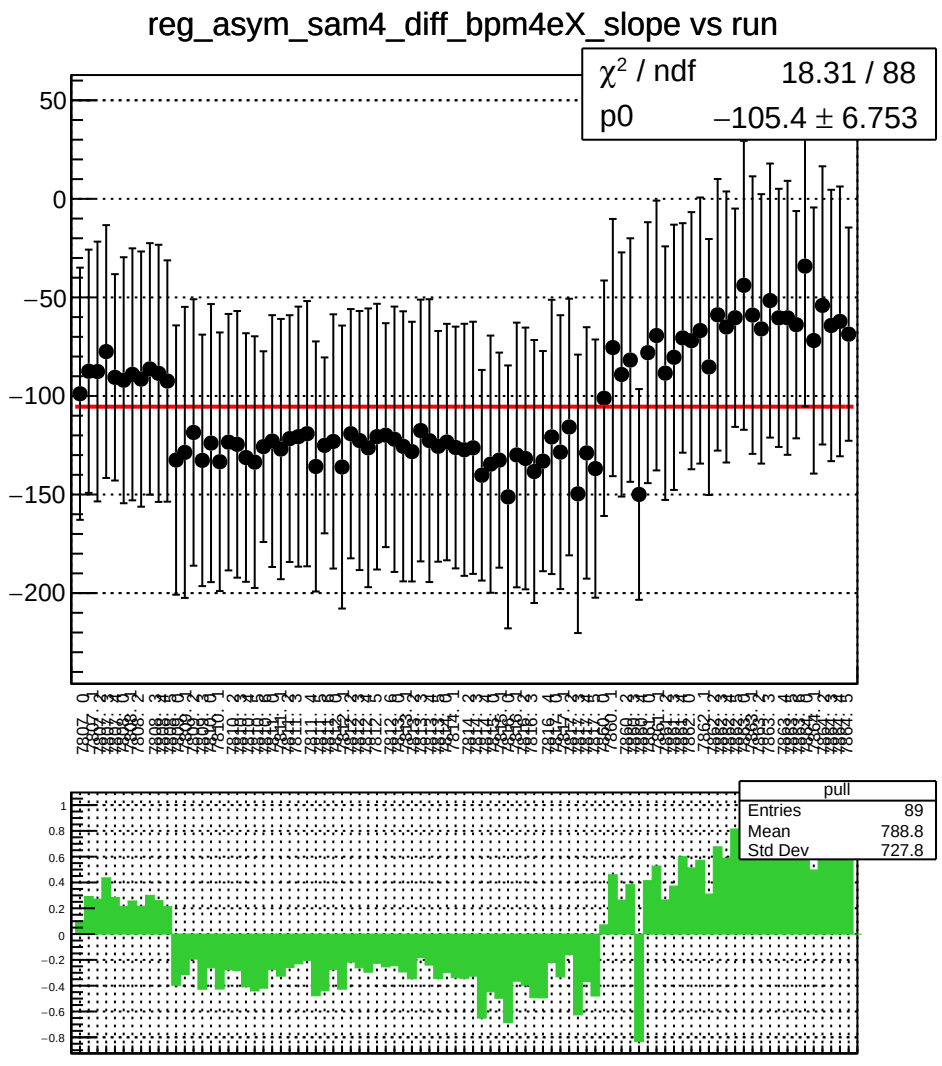

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 48.37 / 88
p0 −1.029 ± 0.1735
pull
Entries 89
Mean 175.7
Std Dev 107.1

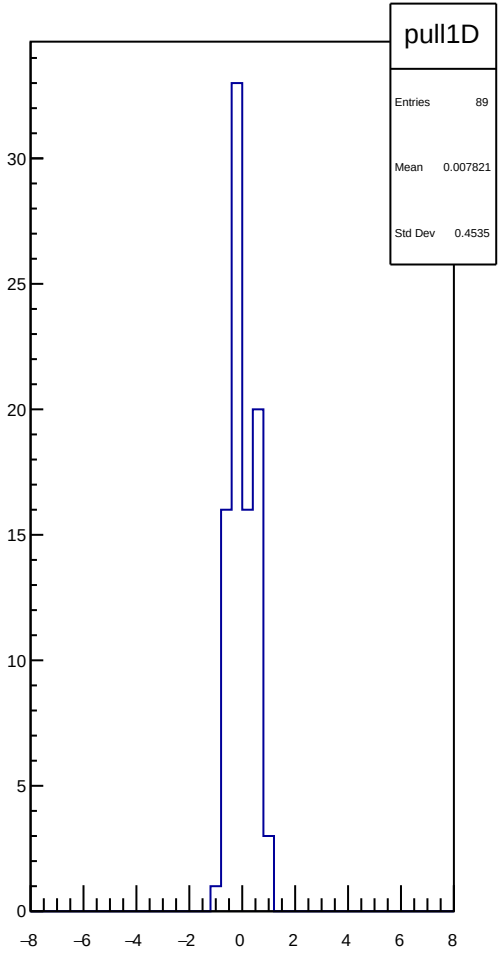

pull1D
Entries 89
Mean −0.06467
Std Dev 0.7344

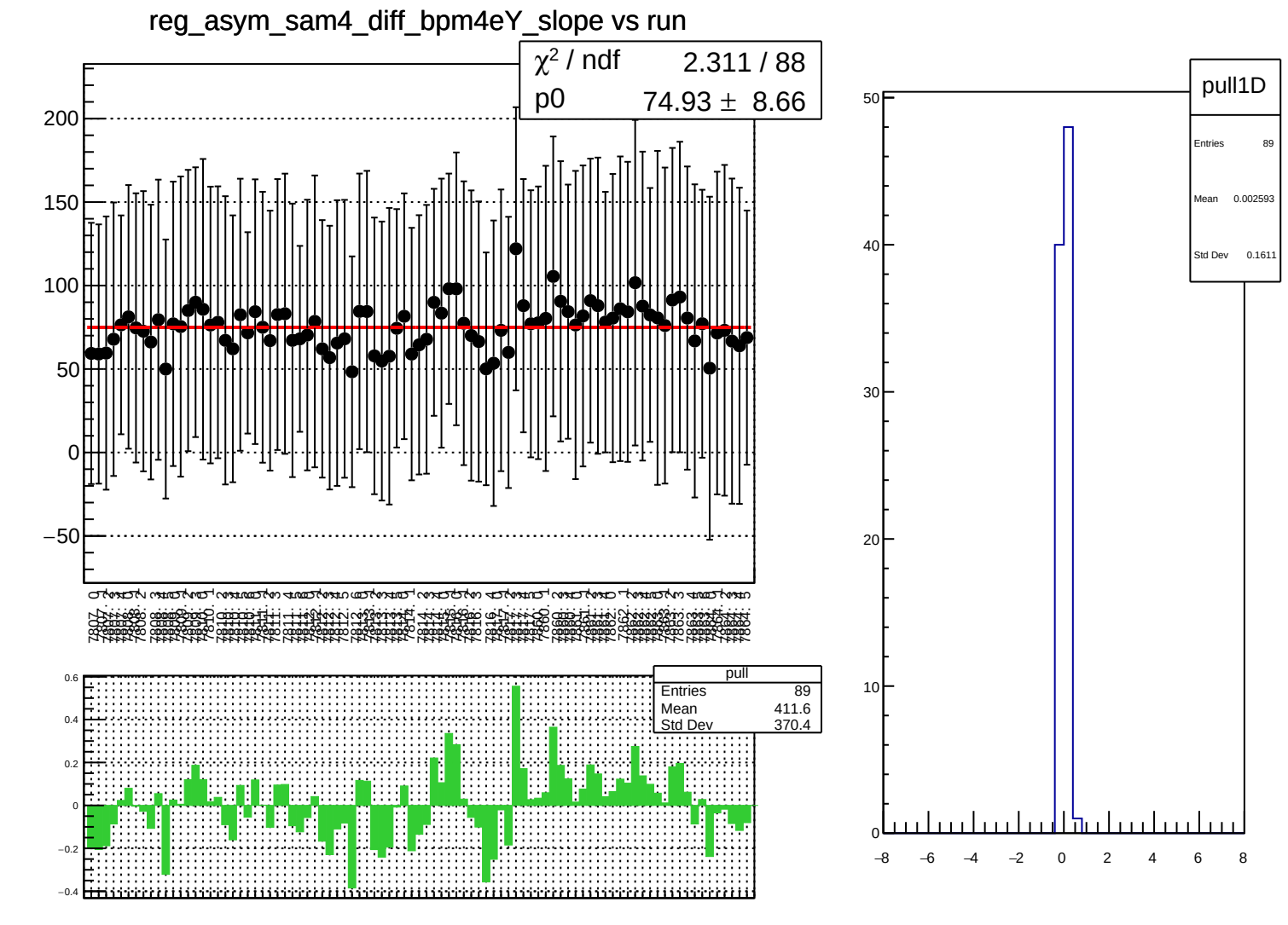

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 24.25 / 88
p0 −105.3 ± 7.474
pull
Entries 89
Mean 362.8
Std Dev 300.3

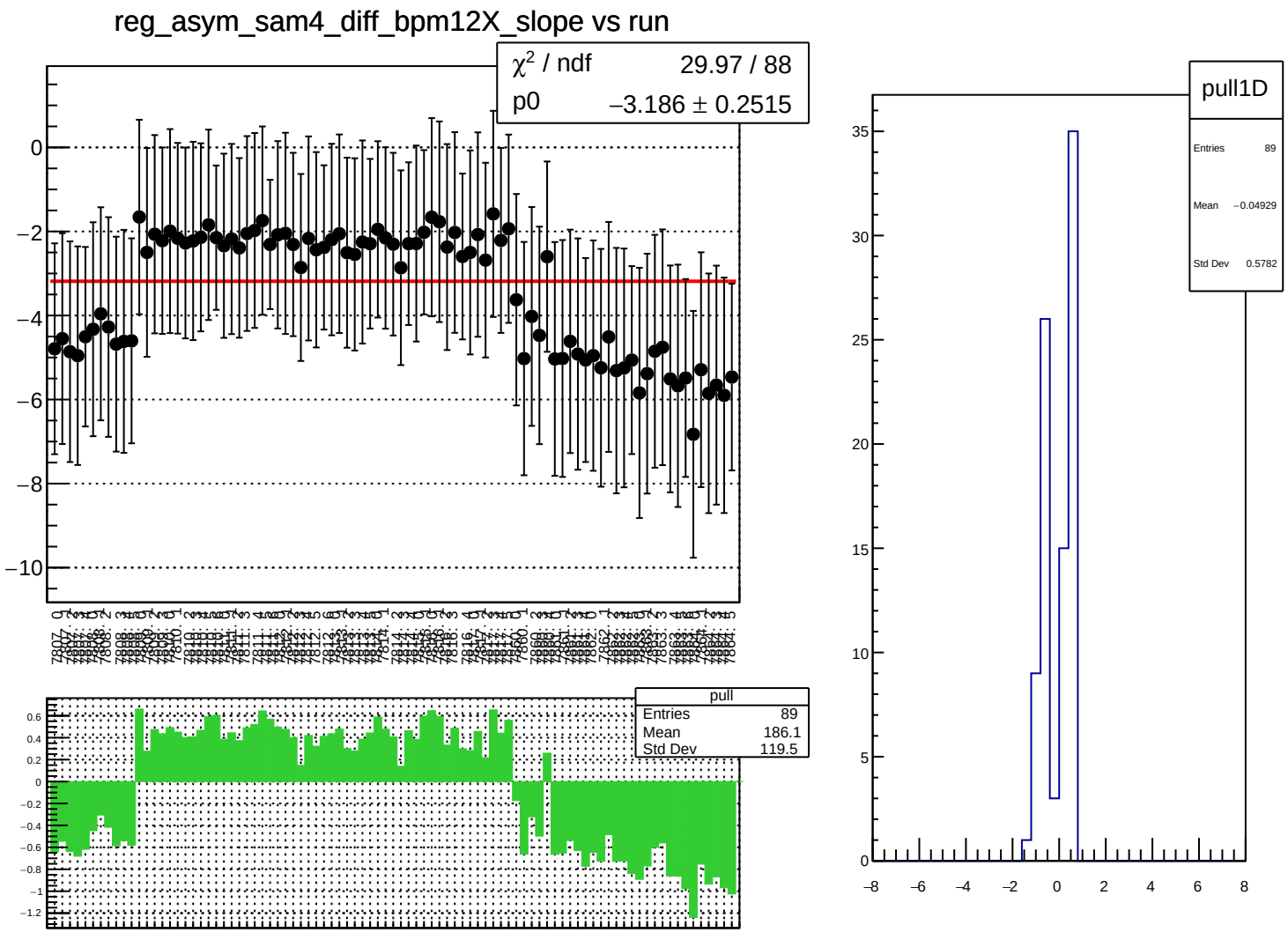

pull1D
Entries 89
Mean −0.02072
Std Dev 0.5216

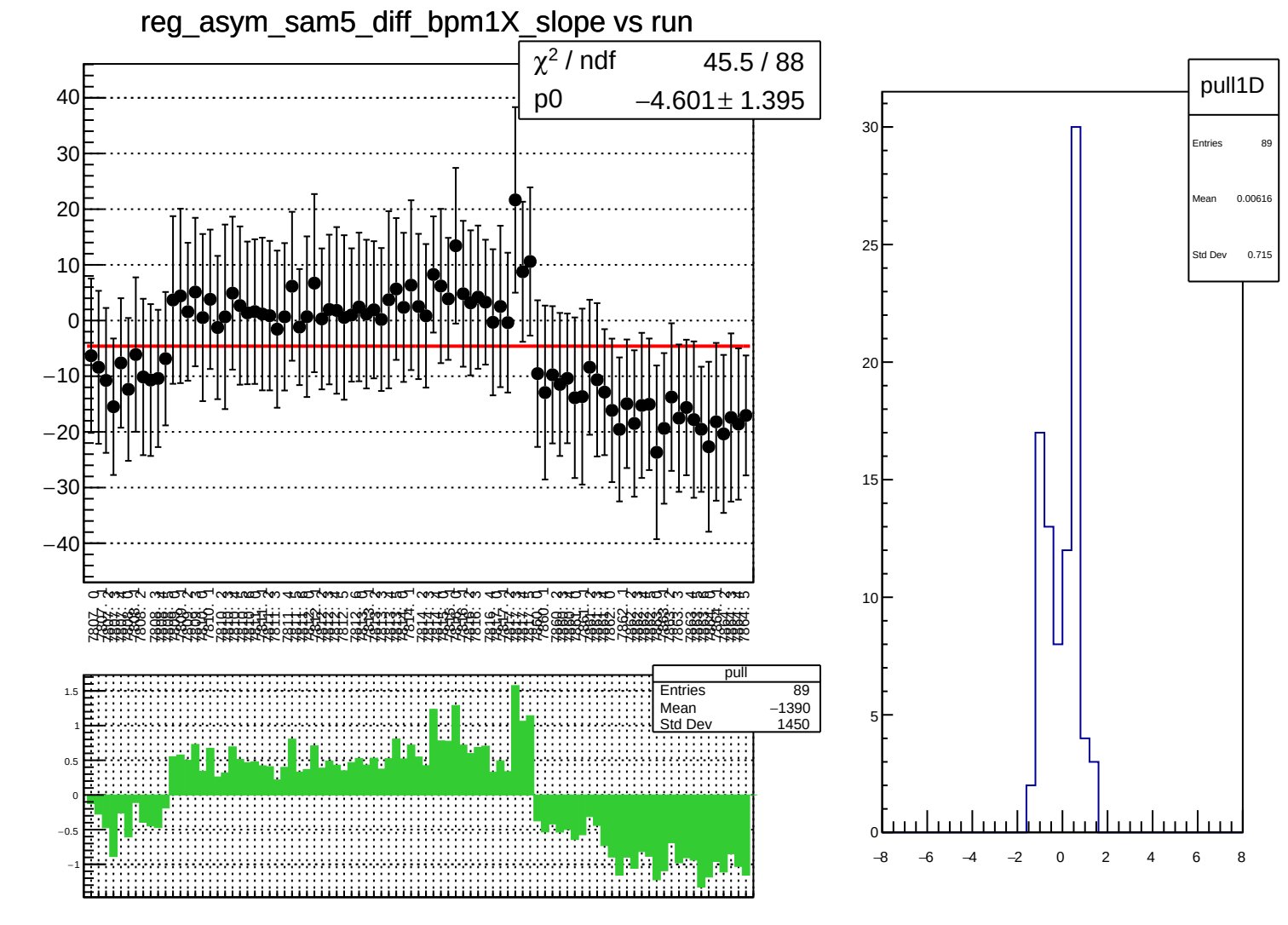

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 3.245 / 88
p0 144.9 ± 7.599
250
200
150
100
50
pull
Entries 89
Mean 649.3
Std Dev 611.4
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean −0.001874
Std Dev 0.191
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

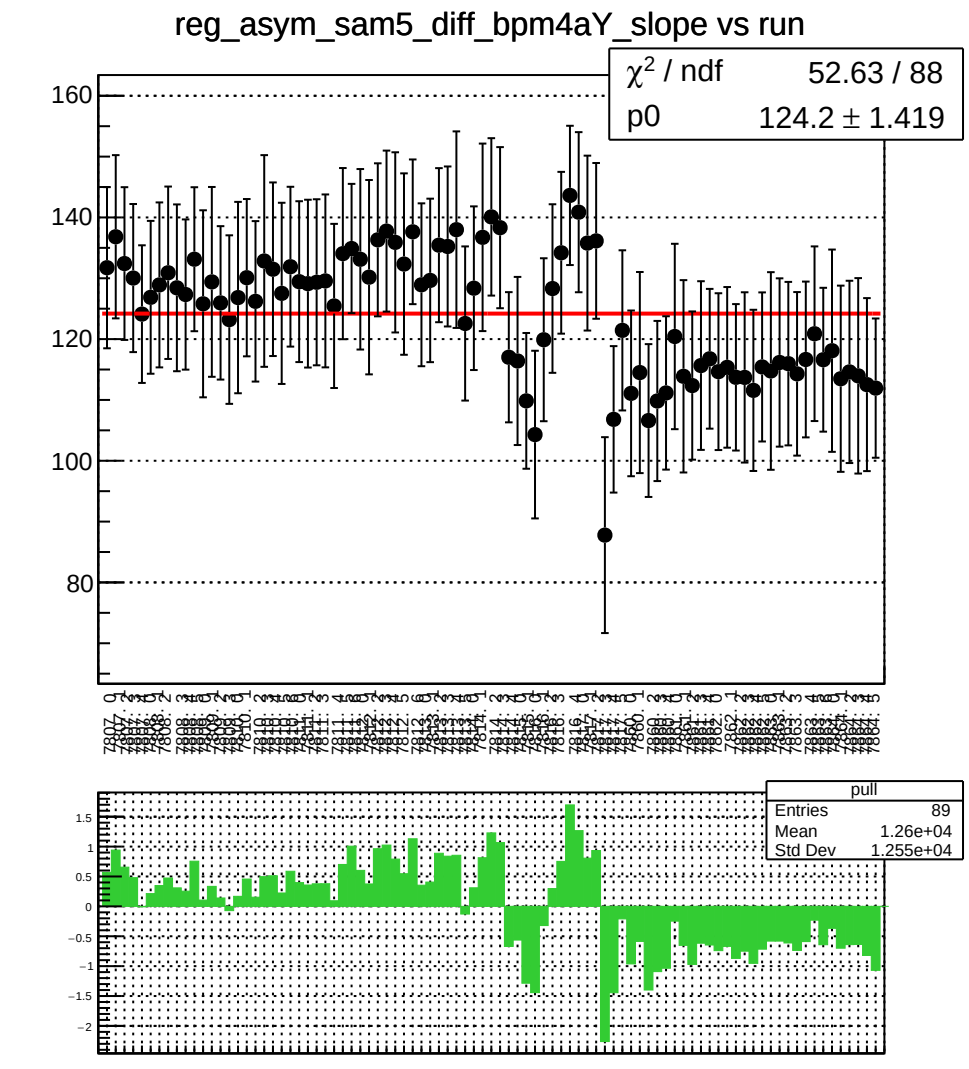

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 18.31 / 88
p0 −105.4 ± 6.753
pull
Entries 89
Mean 788.8
Std Dev 727.8

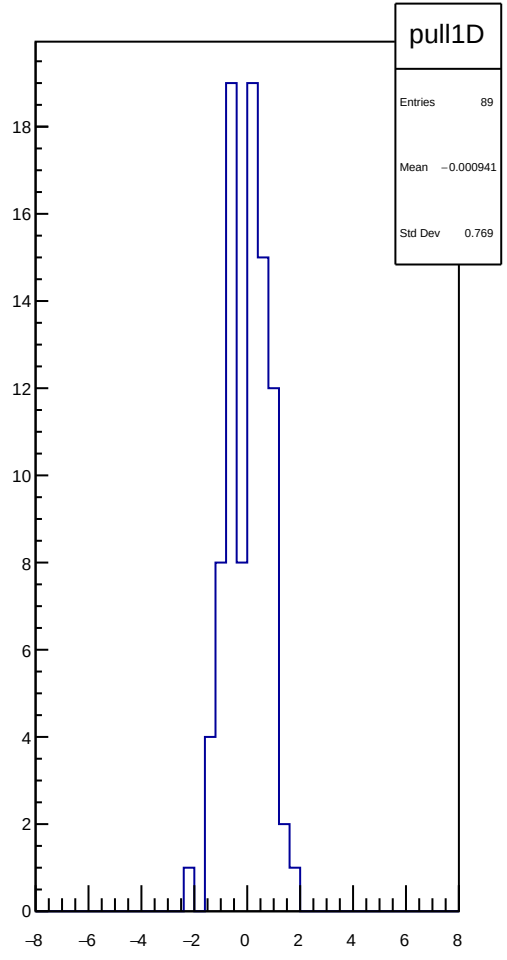

pull1D
Entries 89
Mean 0.007821
Std Dev 0.4535

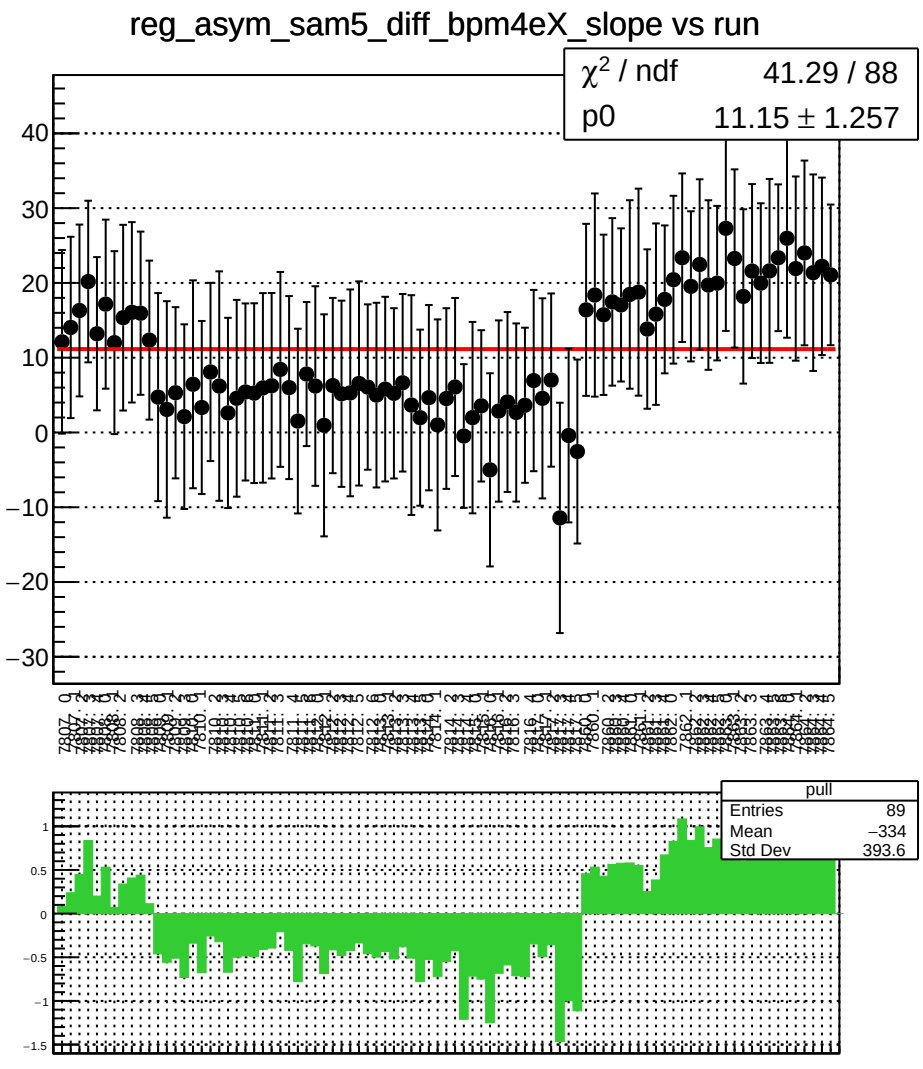

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 2.311 / 88
p0 74.93 ± 8.66
pull
Entries 89
Mean 411.6
Std Dev 370.4
pull1D
Entries 89
Mean 0.002593
Std Dev 0.1611

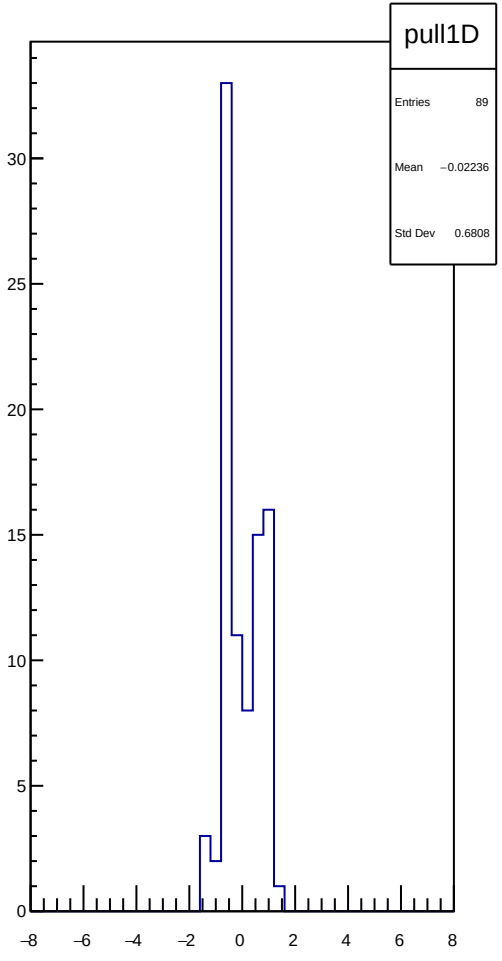

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 29.97 / 88
p0 −3.186 ± 0.2515
pull
Entries 89
Mean 186.1
Std Dev 119.5
pull1D
Entries 89
Mean −0.04929
Std Dev 0.5782

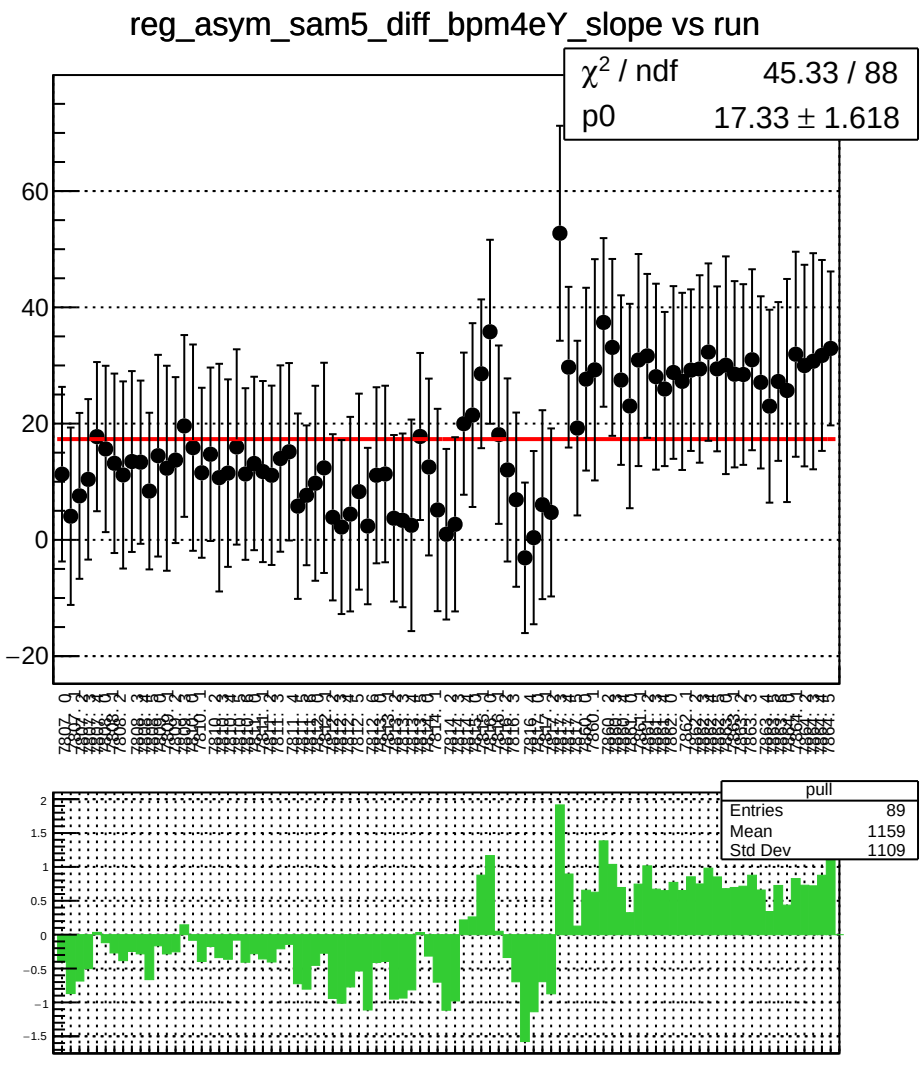

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 45.5 / 88
p0 −4.601 ± 1.395
pull
Entries 89
Mean −1390
Std Dev 1450
pull1D
Entries 89
Mean 0.00616
Std Dev 0.715

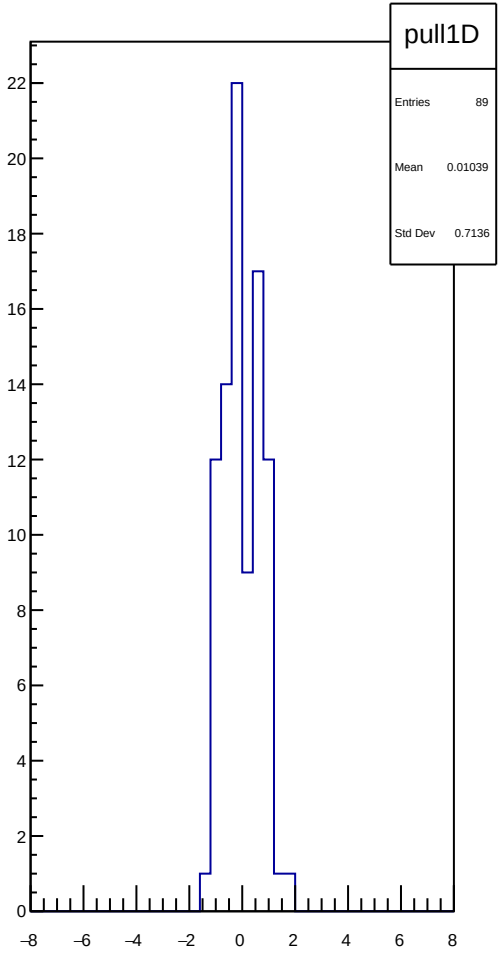

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 52.63 / 88
p0 124.2 ± 1.419
160
140
120
100
80
pull
Entries 89
Mean 1.26e+04
Std Dev 1.255e+04
1.5
1
0.5
0
−0.5
−1
−1.5
−2

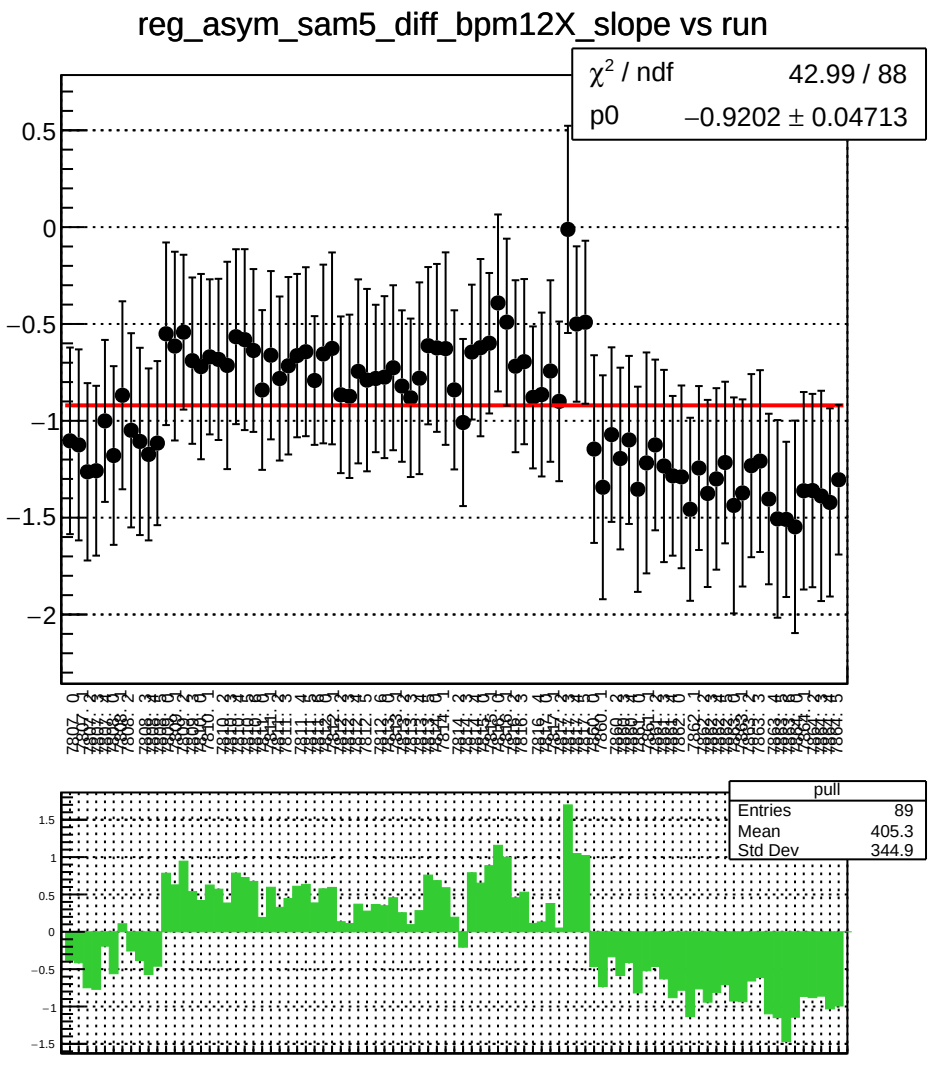

pull1D
Entries 89
Mean −0.000941
Std Dev 0.769
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

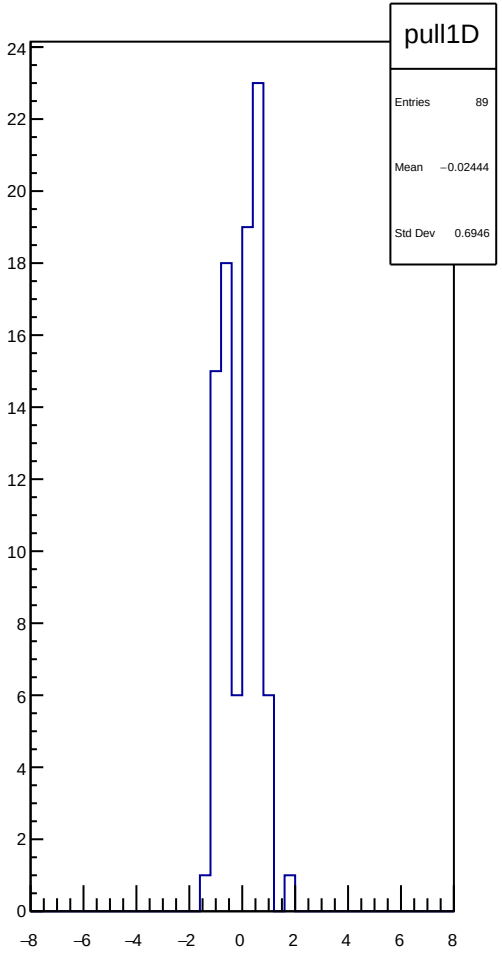

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 41.29 / 88
p0 11.15 ± 1.257
pull
Entries 89
Mean −334
Std Dev 393.6

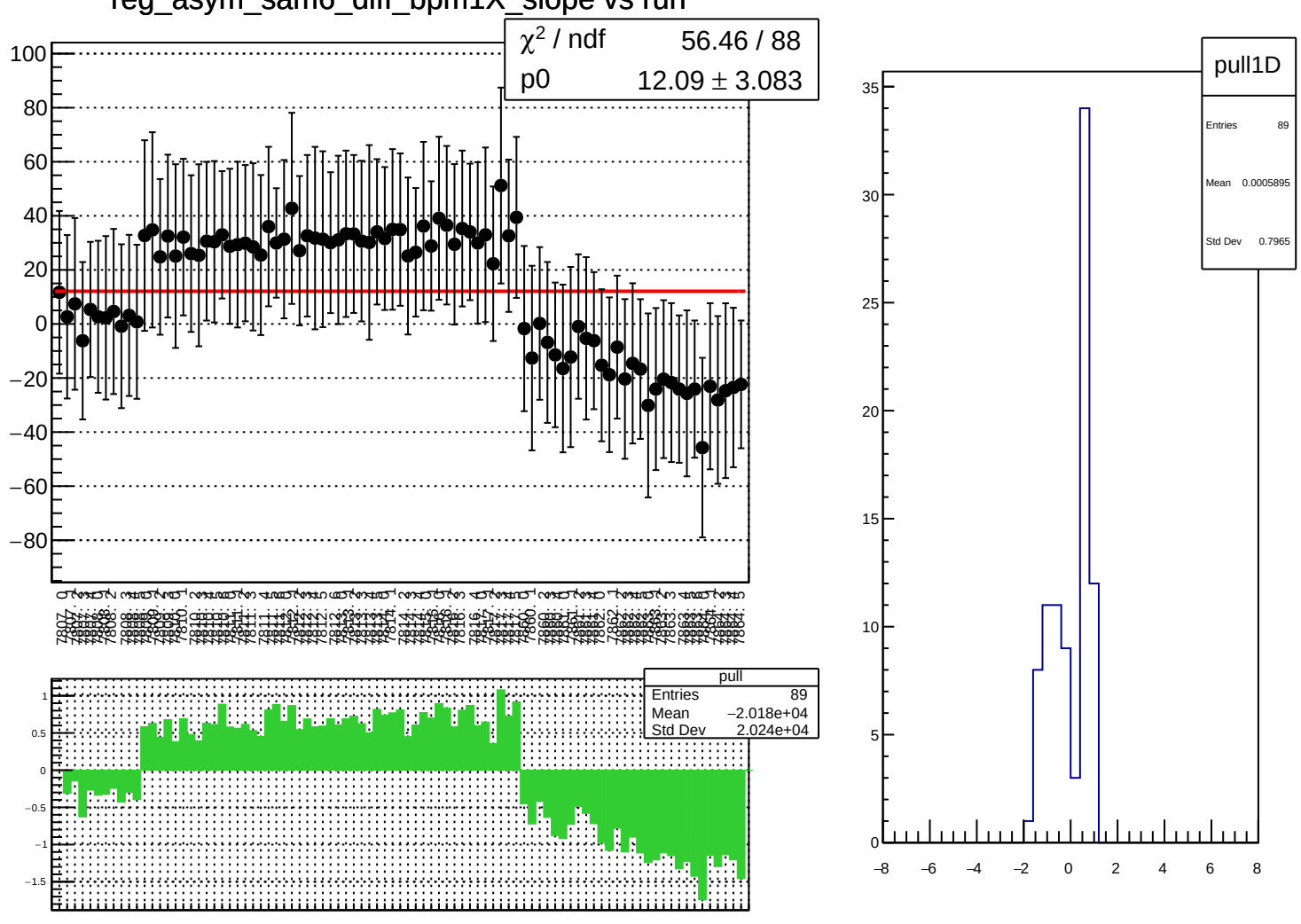

pull1D
Entries 89
Mean −0.02236
Std Dev 0.6808

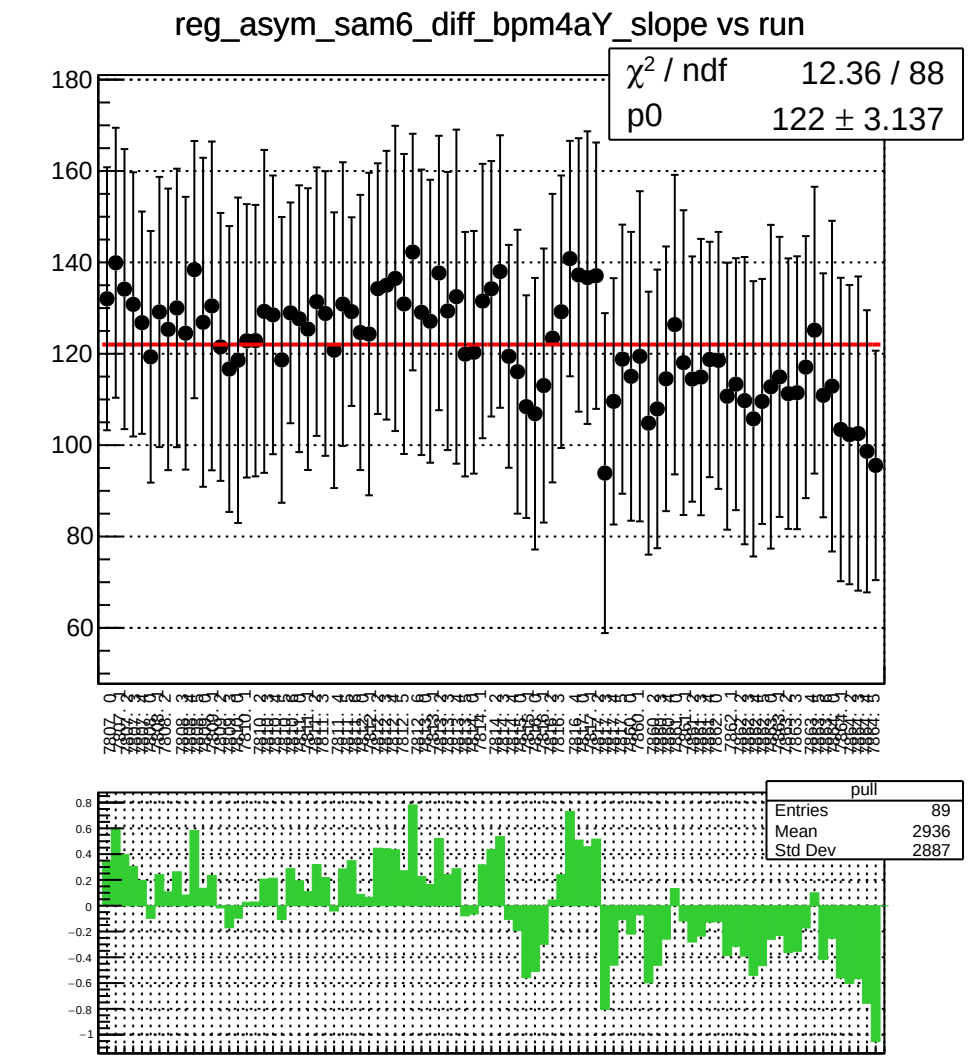

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 45.33 / 88
p0 17.33 ± 1.618
pull
Entries 89
Mean 1159
Std Dev 1109

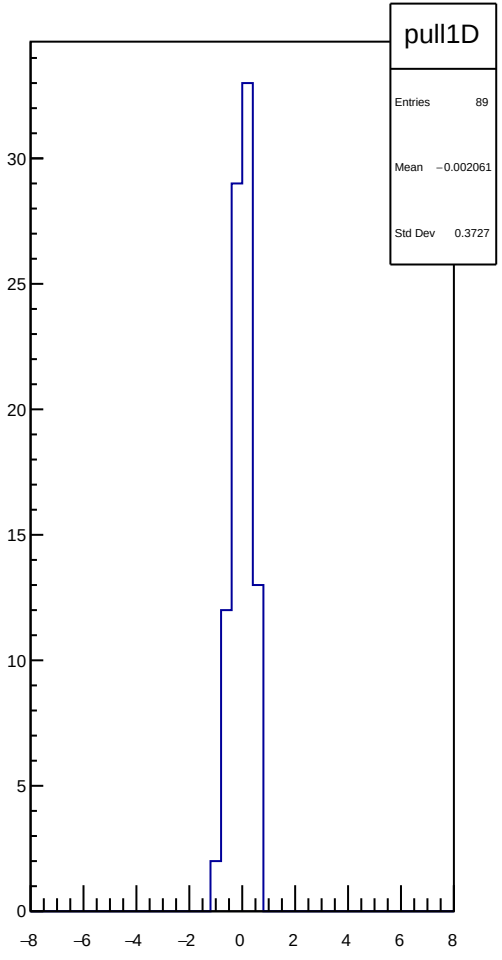

pull1D
Entries 89
Mean 0.01039
Std Dev 0.7136

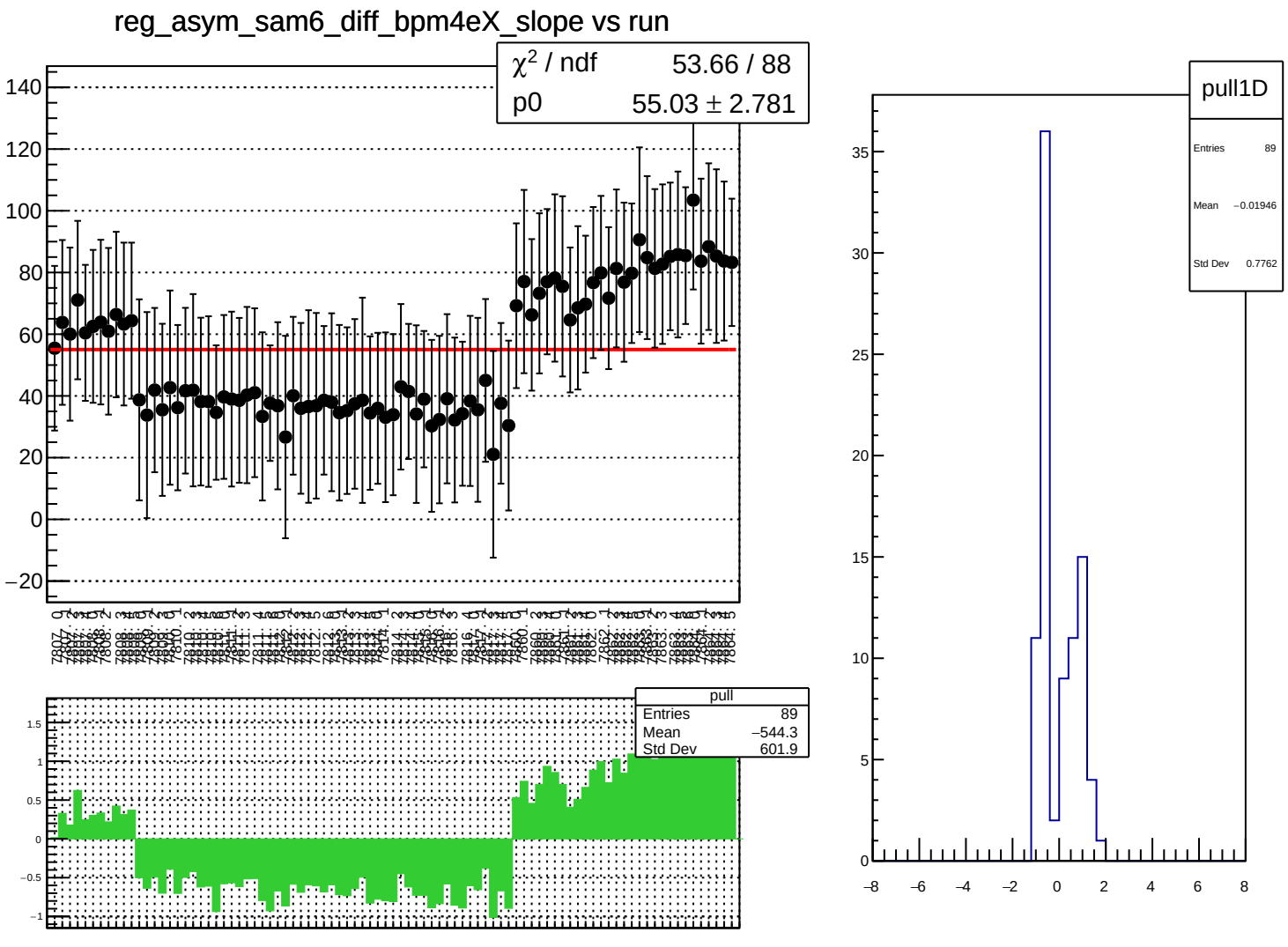

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 42.99 / 88
p0 −0.9202 ± 0.04713
pull
Entries 89
Mean 405.3
Std Dev 344.9

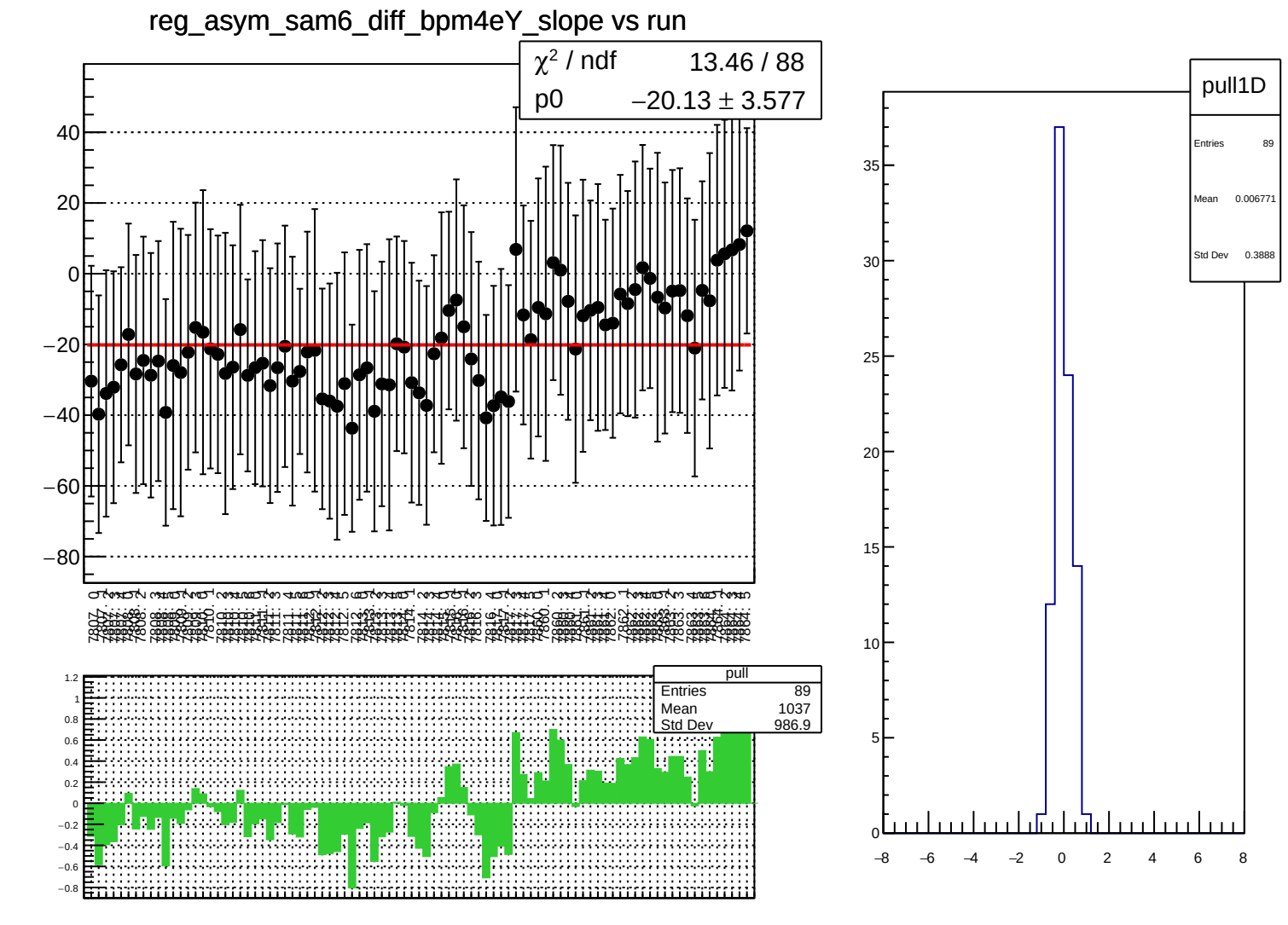

pull1D
Entries 89
Mean −0.02444
Std Dev 0.6946

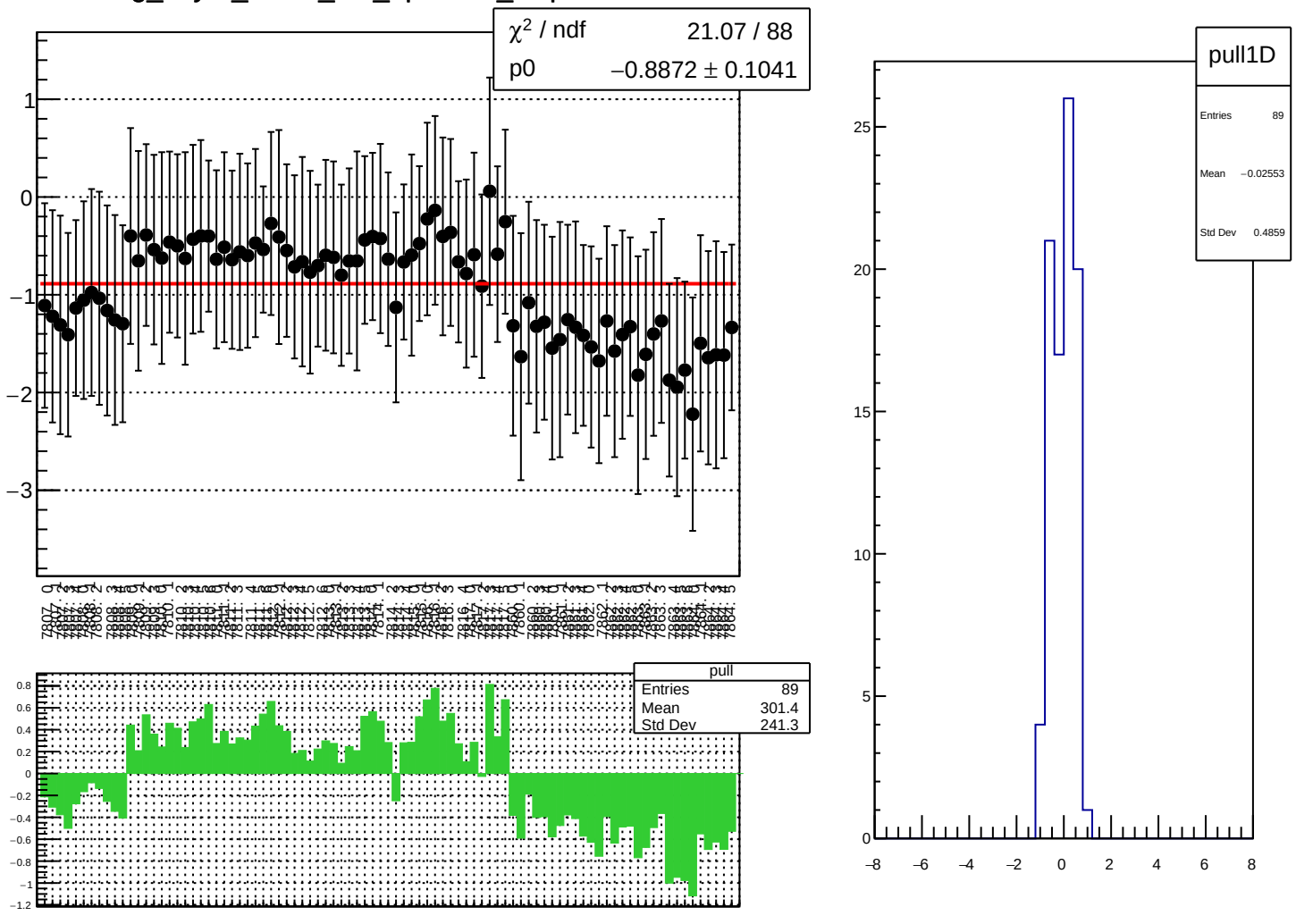

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 56.46 / 88
p0 12.09 ± 3.083
pull
Entries 89
Mean −2.018e+04
Std Dev 2.024e+04
pull1D
Entries 89
Mean 0.0005895
Std Dev 0.7965

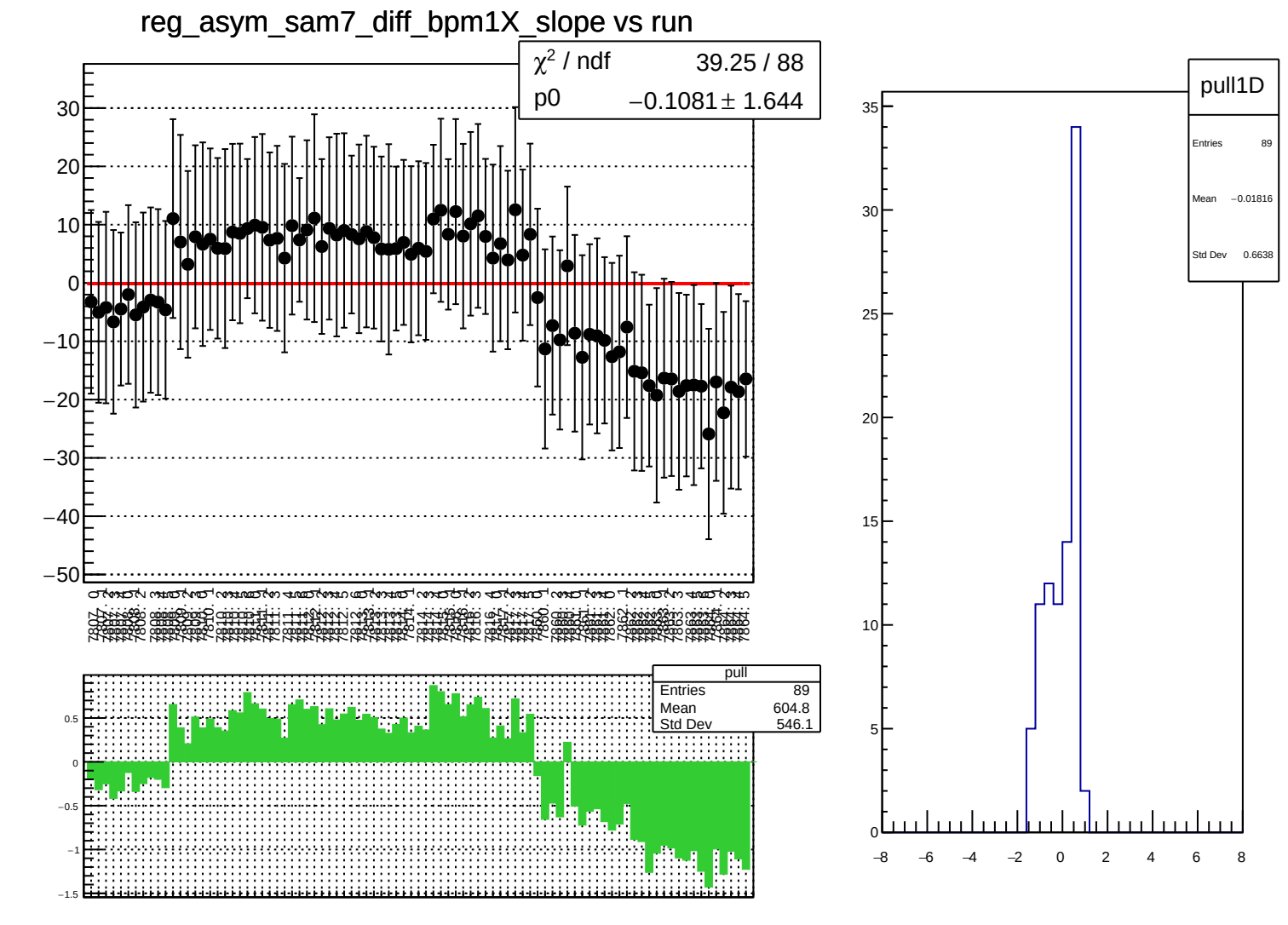

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 12.36 / 88
p0 122 ± 3.137
pull
Entries 89
Mean 2936
Std Dev 2887

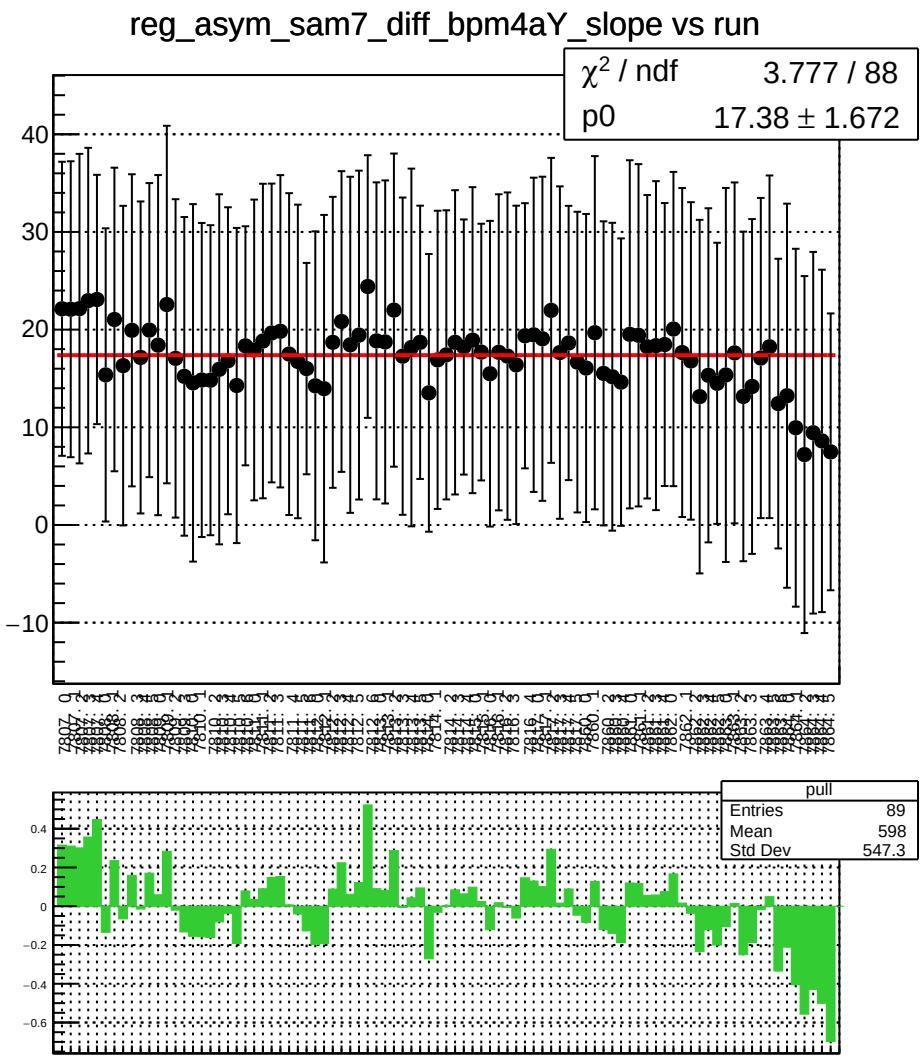

pull1D
Entries 89
Mean −0.002061
Std Dev 0.3727

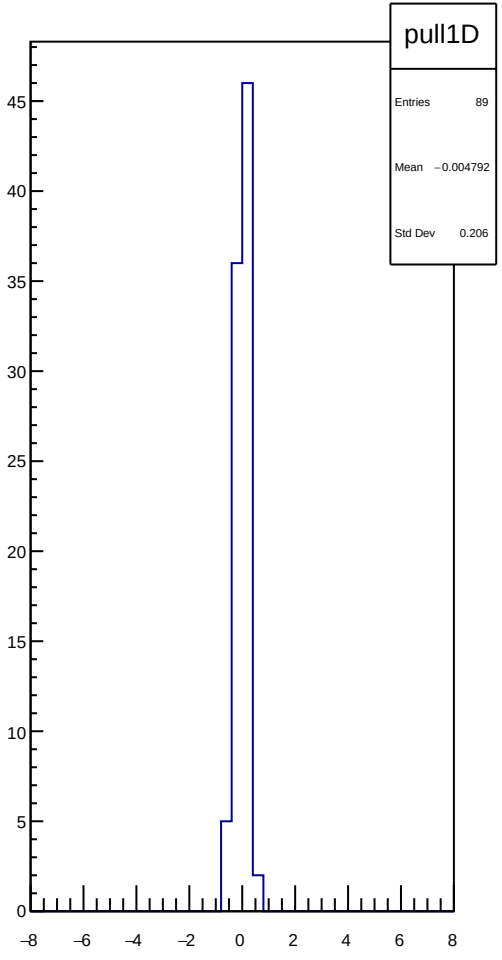

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 53.66 / 88
p0 55.03 ± 2.781
pull
Entries 89
Mean −544.3
Std Dev 601.9
pull1D
Entries 89
Mean −0.01946
Std Dev 0.7762

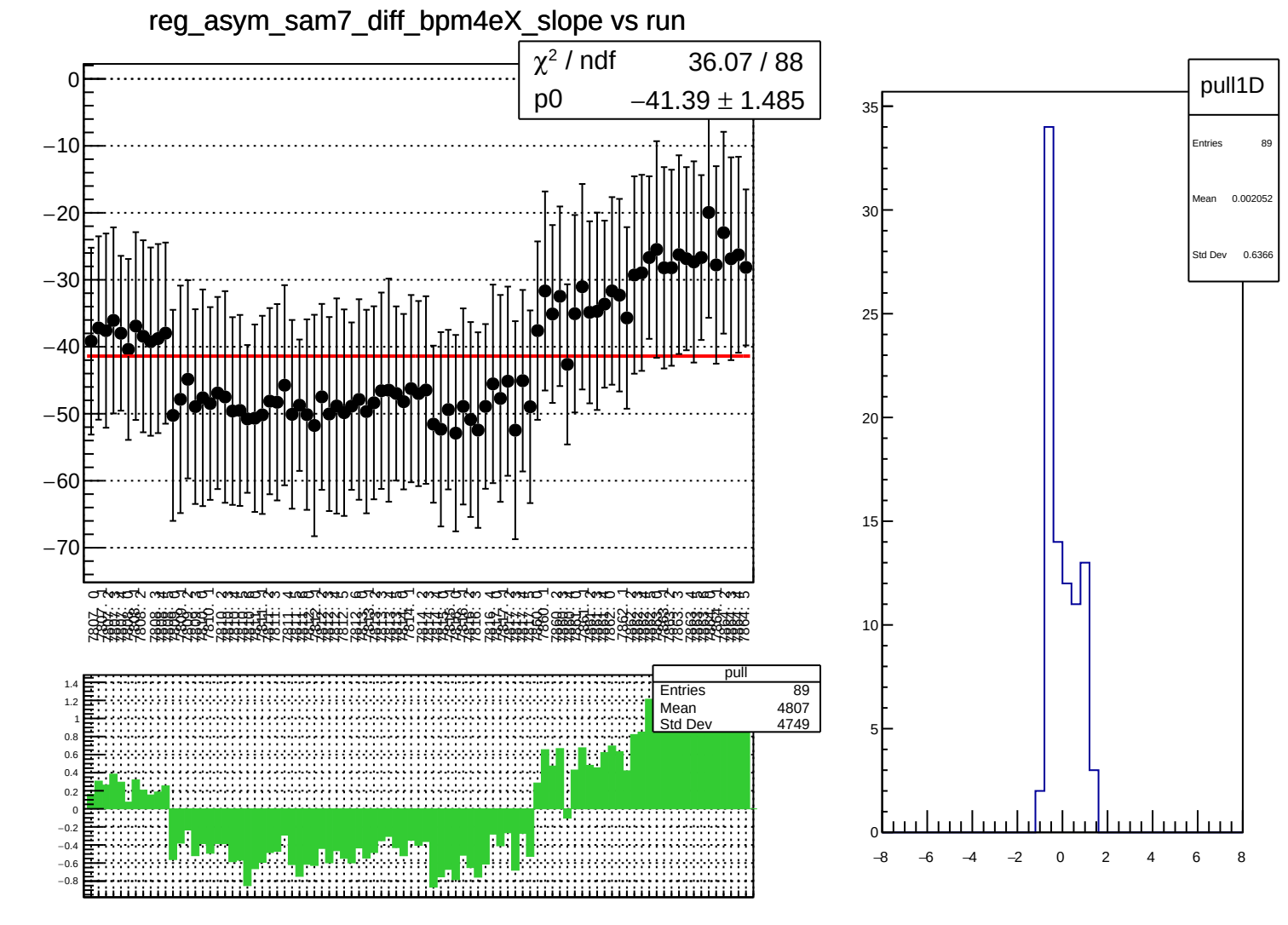

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 13.46 / 88
p0 −20.13 ± 3.577
pull
Entries 89
Mean 1037
Std Dev 986.9
pull1D
Entries 89
Mean 0.006771
Std Dev 0.3888

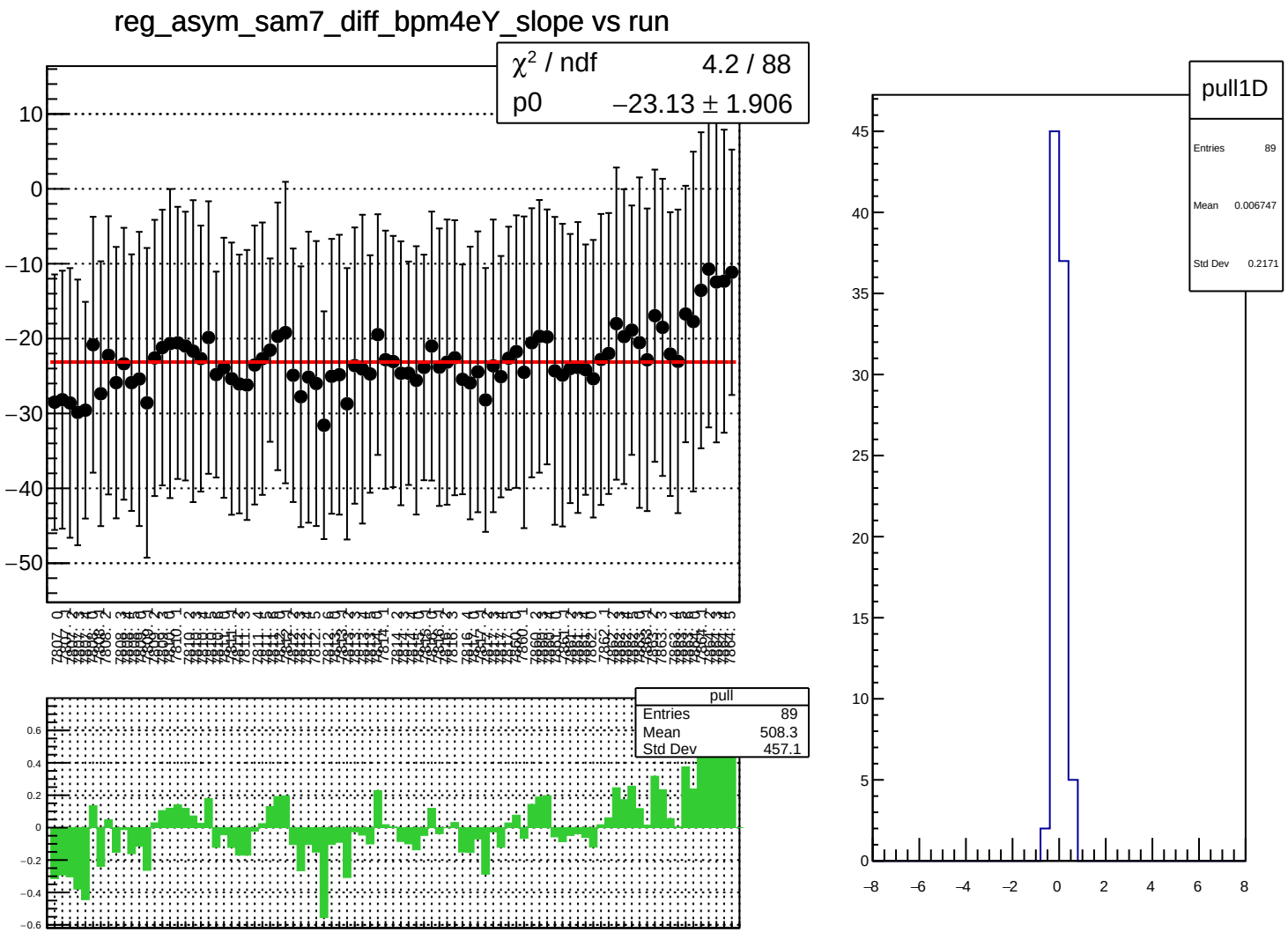

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 21.07 / 88
p0 −0.8872 ± 0.1041
pull
Entries 89
Mean 301.4
Std Dev 241.3
pull1D
Entries 89
Mean −0.02553
Std Dev 0.4859

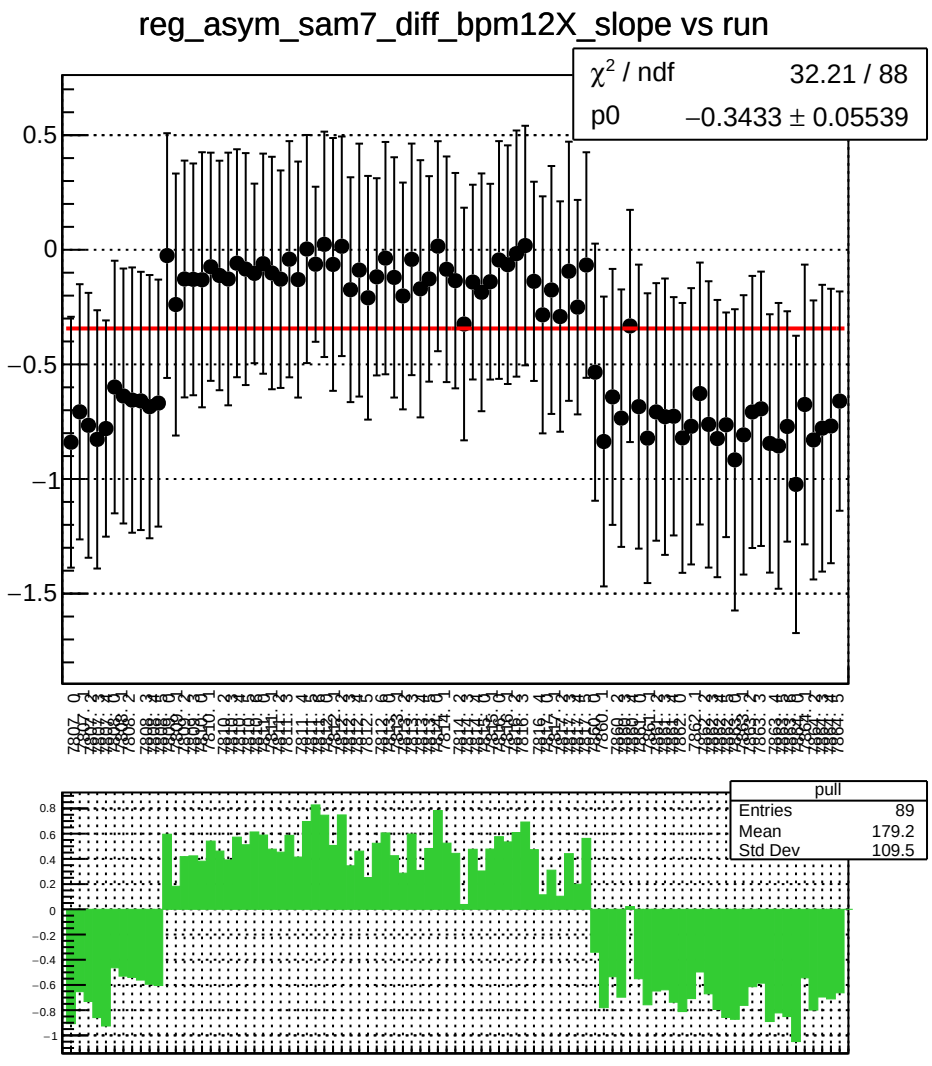

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 39.25 / 88
p0 −0.1081 ± 1.644
pull
Entries 89
Mean 604.8
Std Dev 546.1
pull1D
Entries 89
Mean −0.01816
Std Dev 0.6638

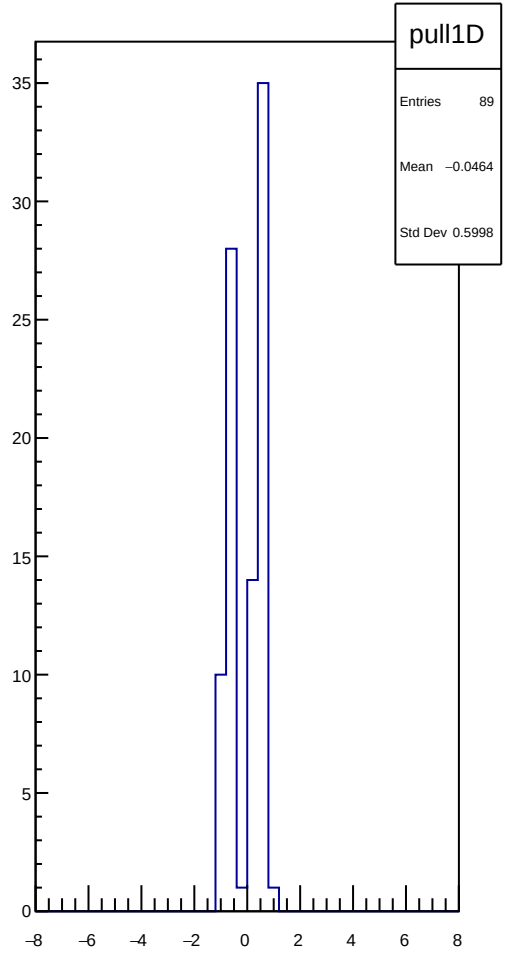

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 3.777 / 88
p0 17.38 ± 1.672
pull
Entries 89
Mean 598
Std Dev 547.3

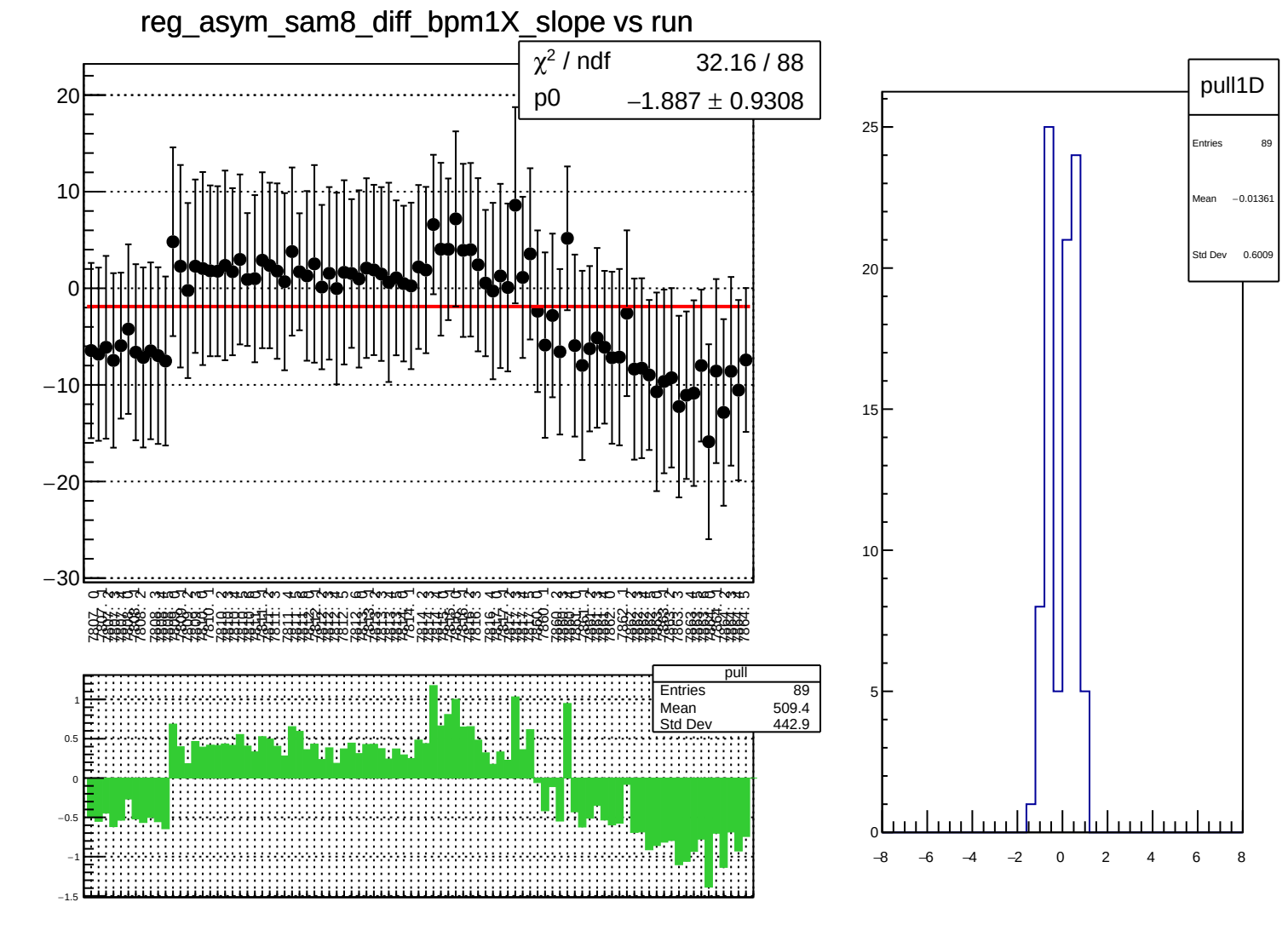

pull1D
Entries 89
Mean −0.004792
Std Dev 0.206

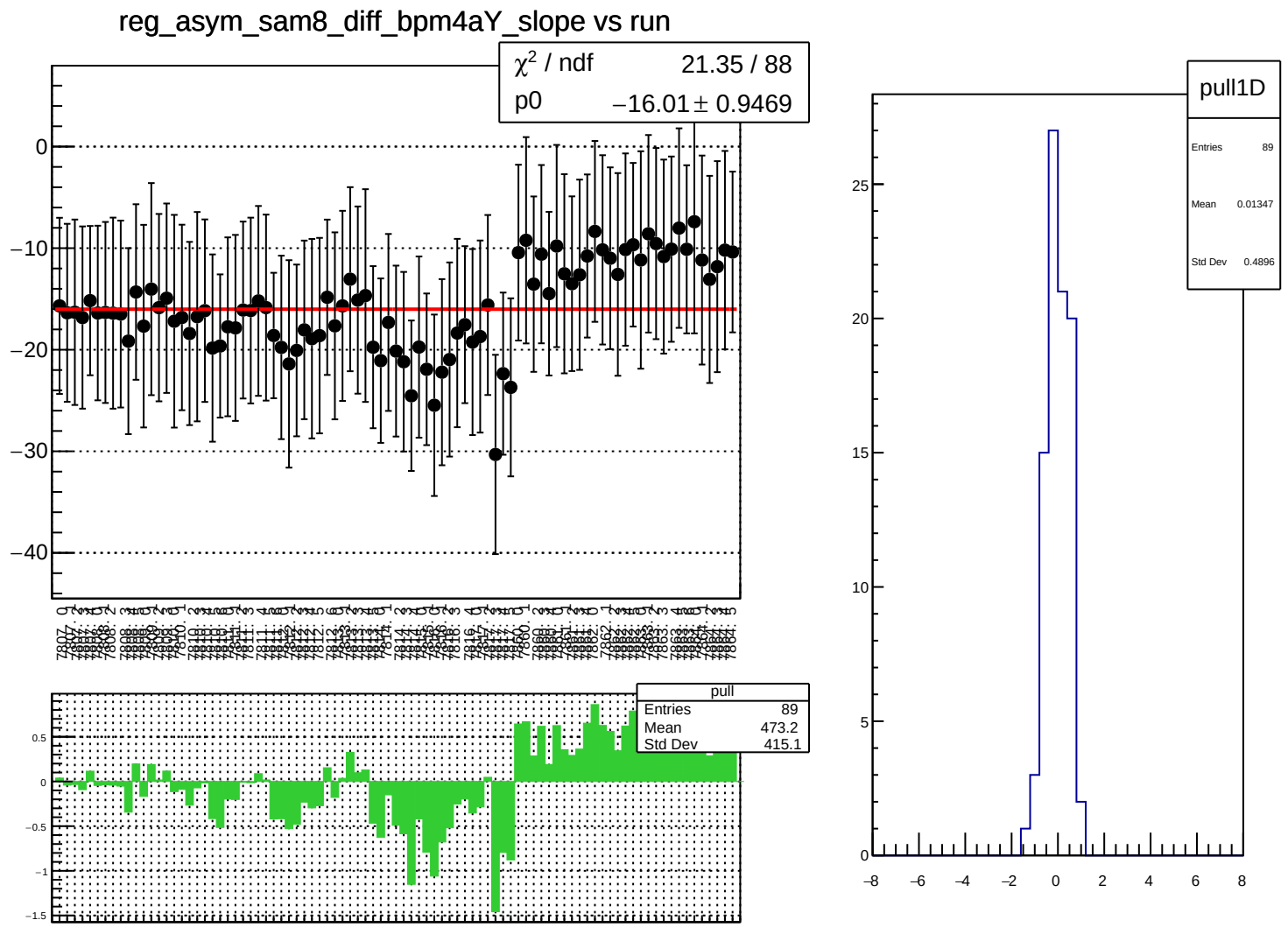

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 36.07 / 88
p0 −41.39 ± 1.485
pull
Entries 89
Mean 4807
Std Dev 4749
pull1D
Entries 89
Mean 0.002052
Std Dev 0.6366

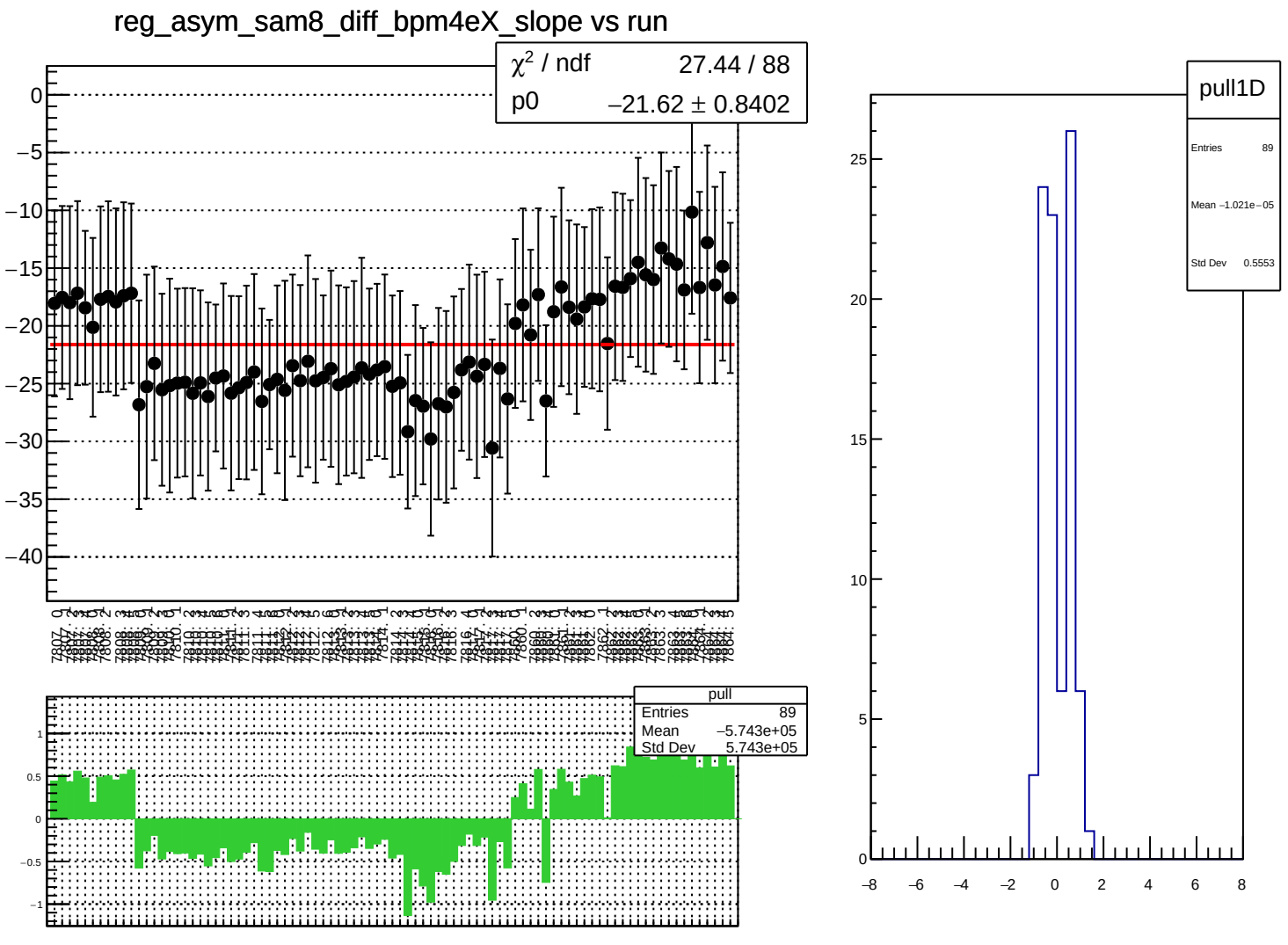

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 4.2 / 88
p0 −23.13 ± 1.906
pull
Entries 89
Mean 508.3
Std Dev 457.1
pull1D
Entries 89
Mean 0.006747
Std Dev 0.2171

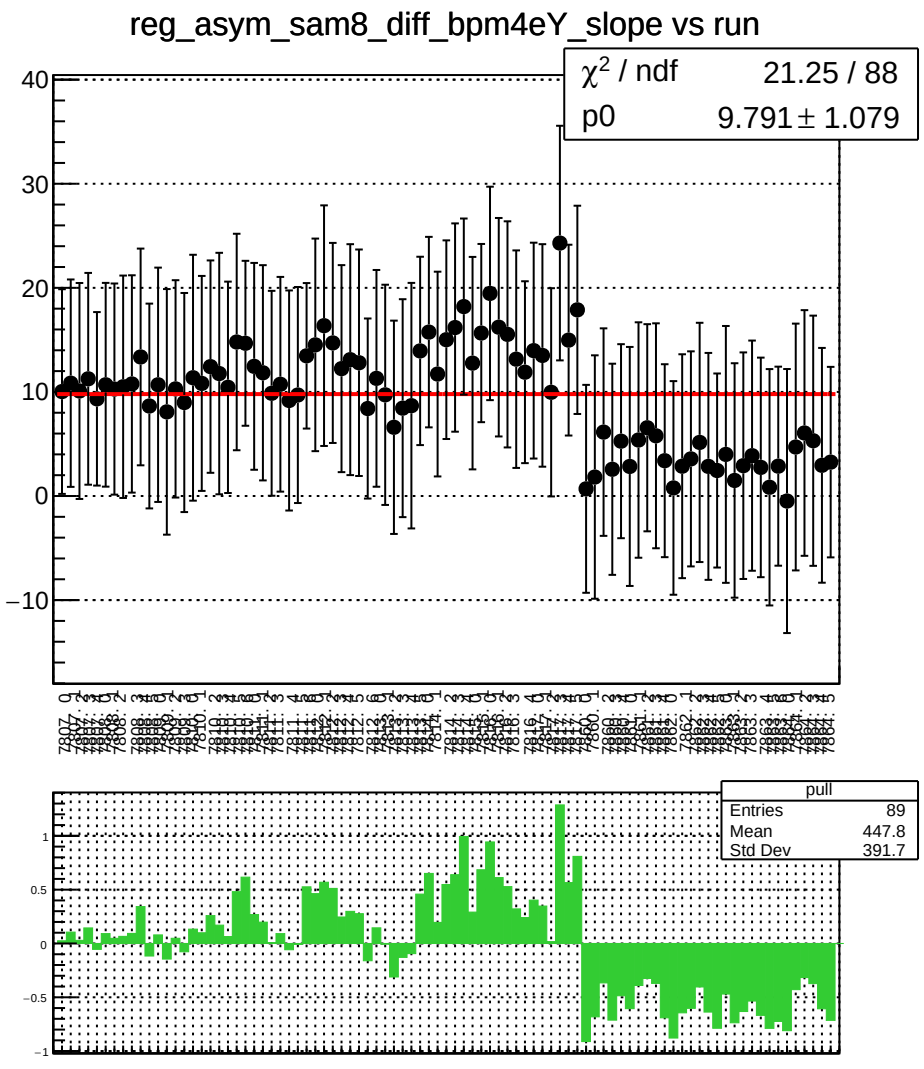

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 32.21 / 88
p0 −0.3433 ± 0.05539
0.5
0
−0.5
−1
−1.5
pull
Entries 89
Mean 179.2
Std Dev 109.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

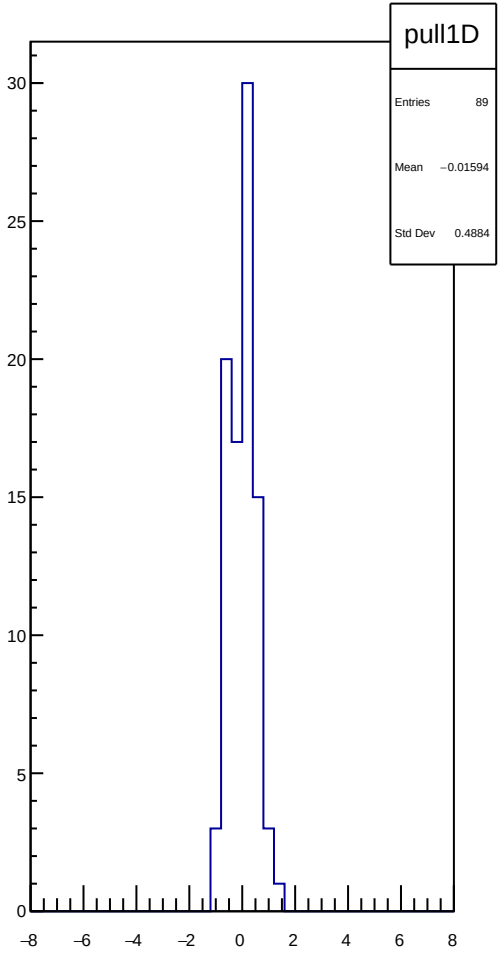

pull1D
Entries 89
Mean −0.0464
Std Dev 0.5998
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

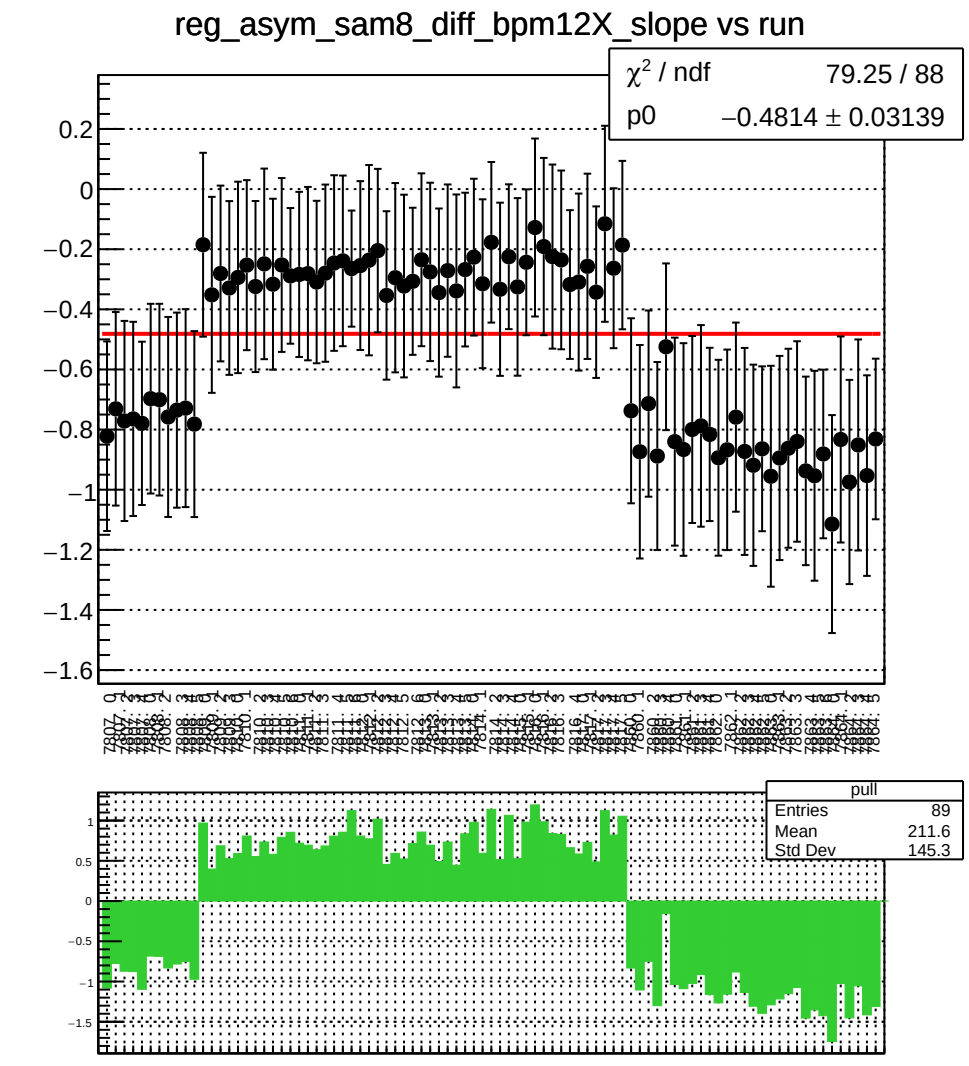

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 32.16 / 88
p0 −1.887 ± 0.9308
pull
Entries 89
Mean 509.4
Std Dev 442.9
pull1D
Entries 89
Mean −0.01361
Std Dev 0.6009

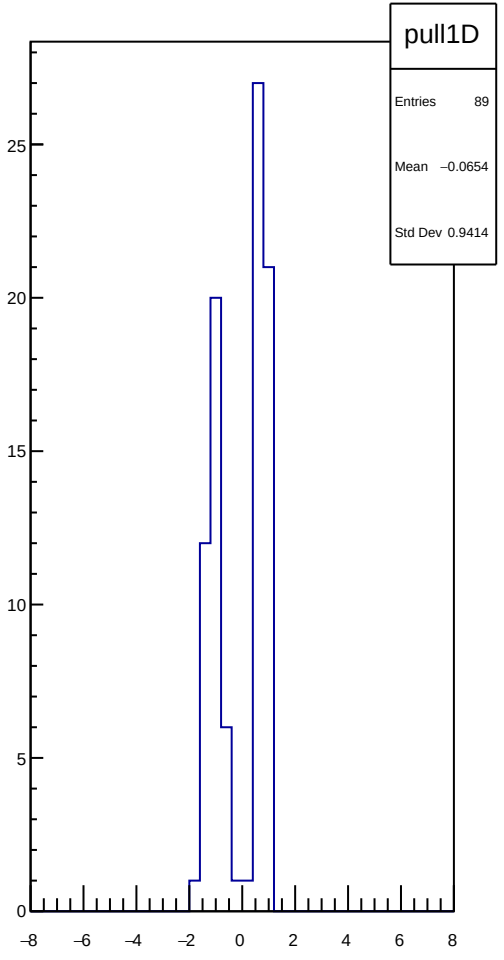

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 21.35 / 88
p0 −16.01 ± 0.9469
pull
Entries 89
Mean 473.2
Std Dev 415.1
pull1D
Entries 89
Mean 0.01347
Std Dev 0.4896

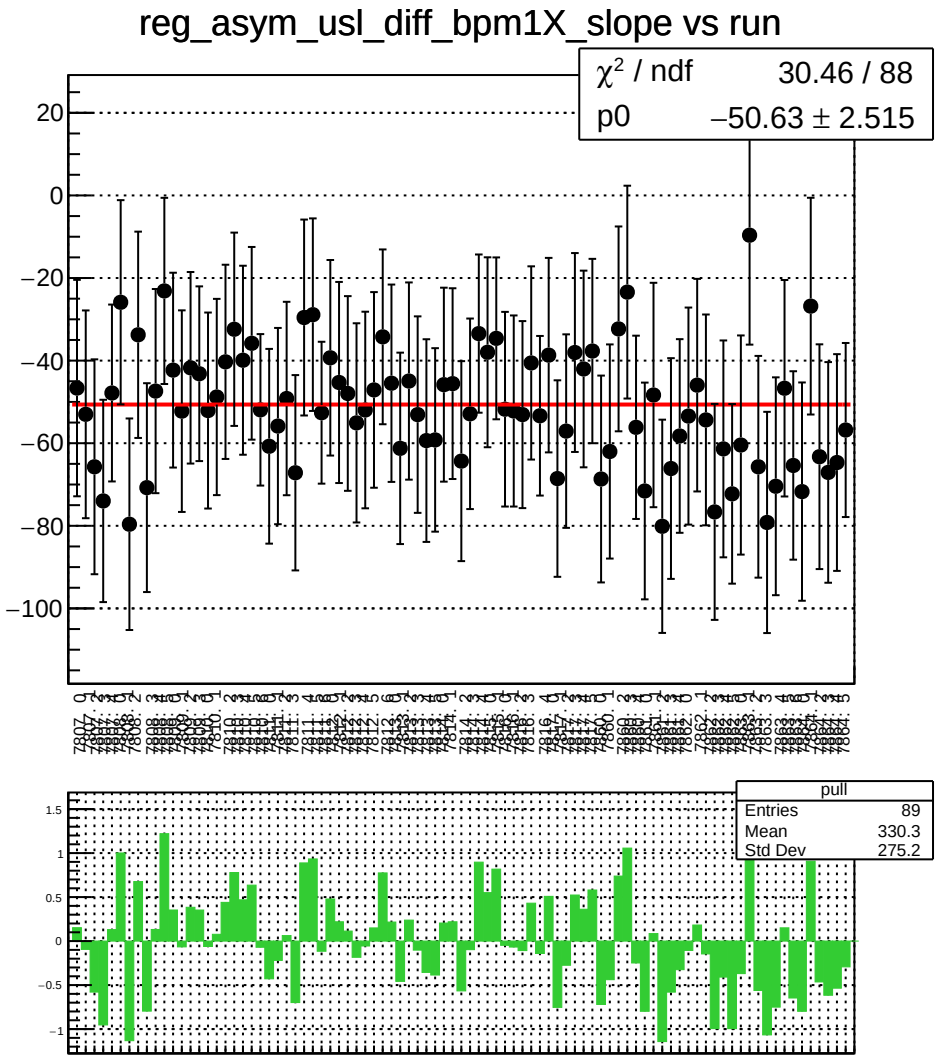

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 27.44 / 88
p0 −21.62 ± 0.8402
pull
Entries 89
Mean −5.743e+05
Std Dev 5.743e+05
pull1D
Entries 89
Mean −1.021e−05
Std Dev 0.5553

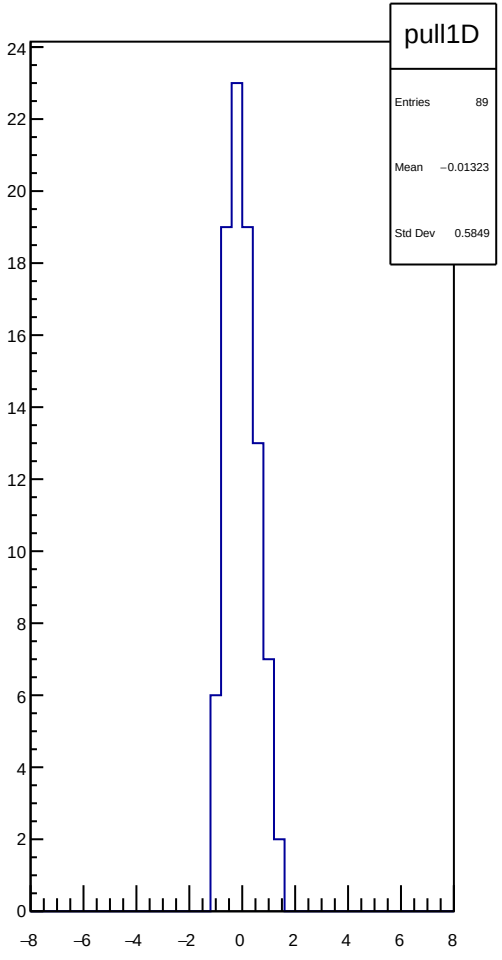

reg_asym_sam8_diff_bpm4eY_slope vs run
χ^2 / ndf 21.25 / 88
p0 9.791 ± 1.079
pull
Entries 89
Mean 447.8
Std Dev 391.7

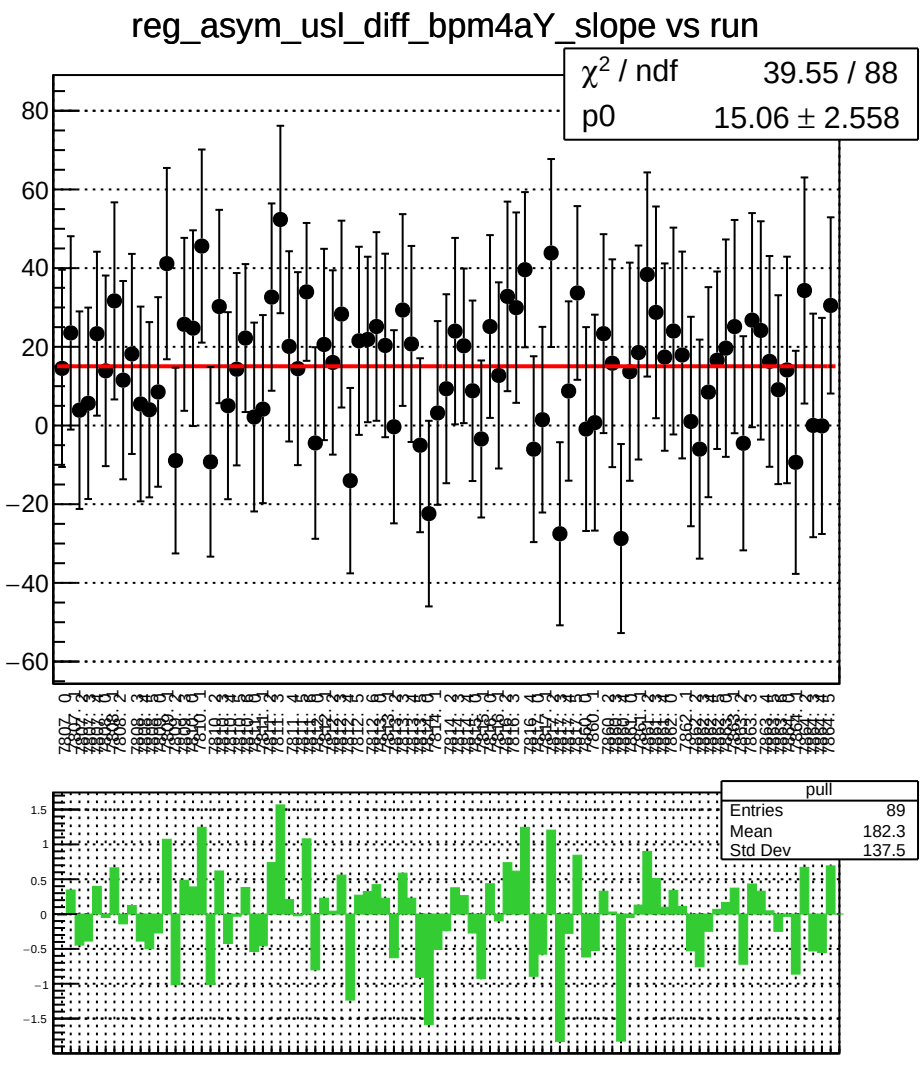

pull1D
Entries 89
Mean −0.01594
Std Dev 0.4884

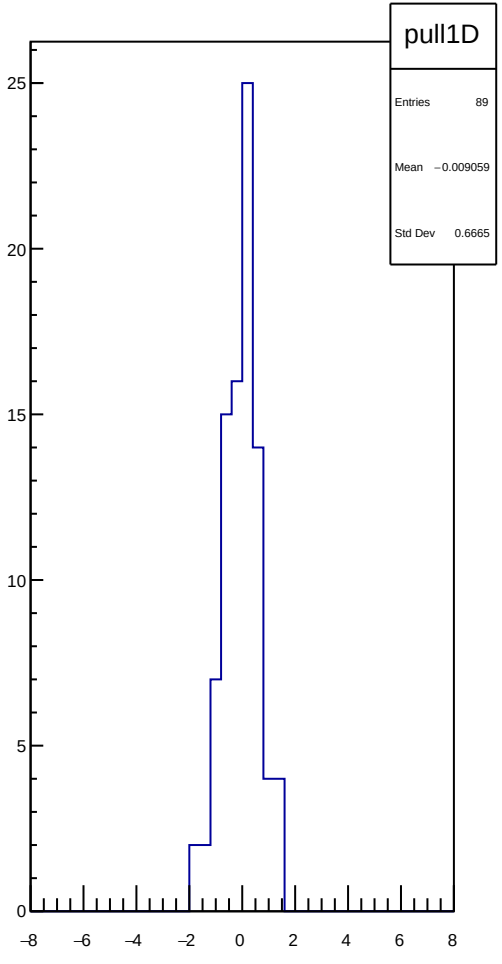

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 79.25 / 88
p0 −0.4814 ± 0.03139
pull
Entries 89
Mean 211.6
Std Dev 145.3

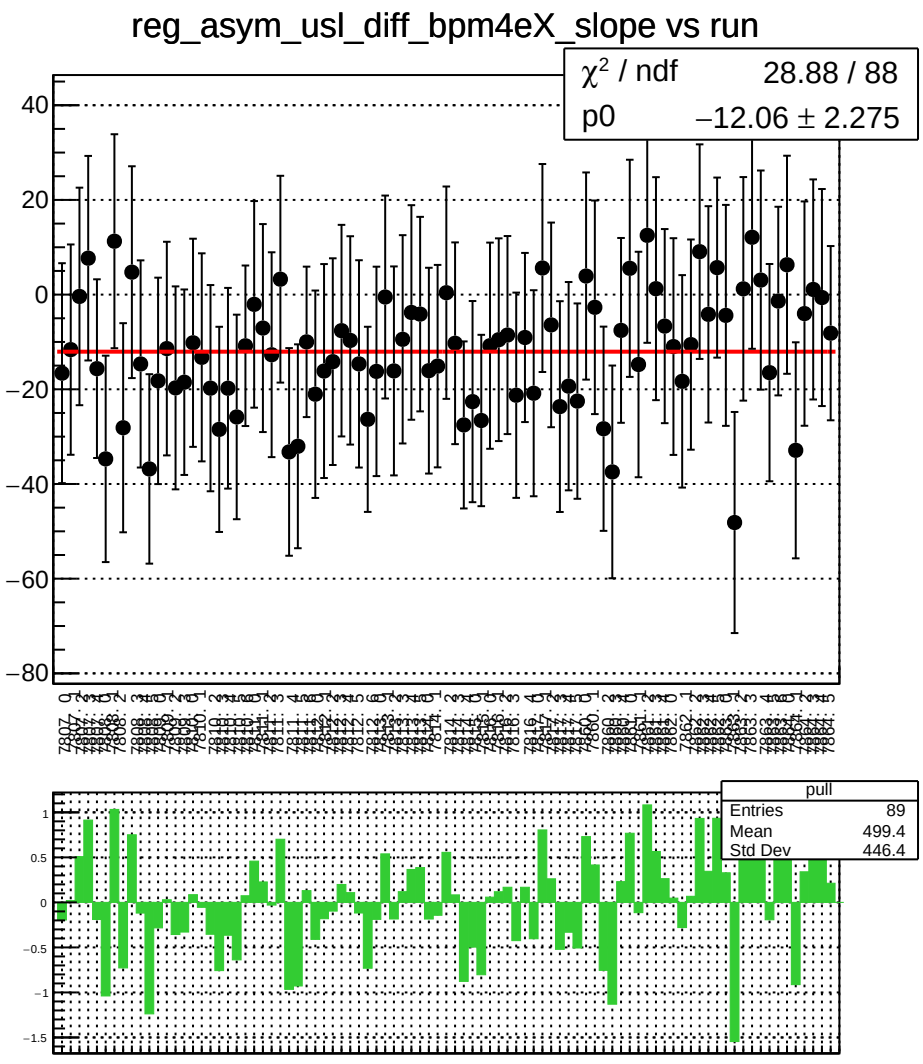

pull1D
Entries 89
Mean −0.0654
Std Dev 0.9414

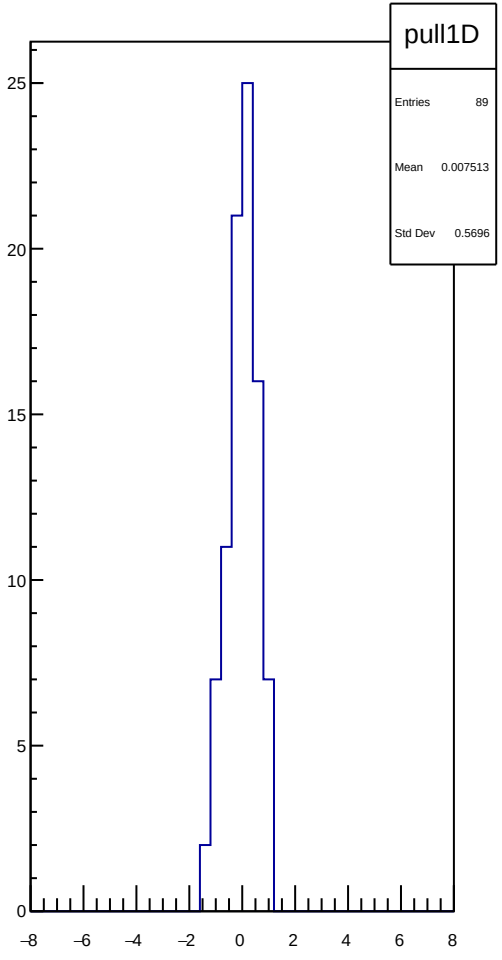

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 30.46 / 88
p0 −50.63 ± 2.515
pull
Entries 89
Mean 330.3
Std Dev 275.2

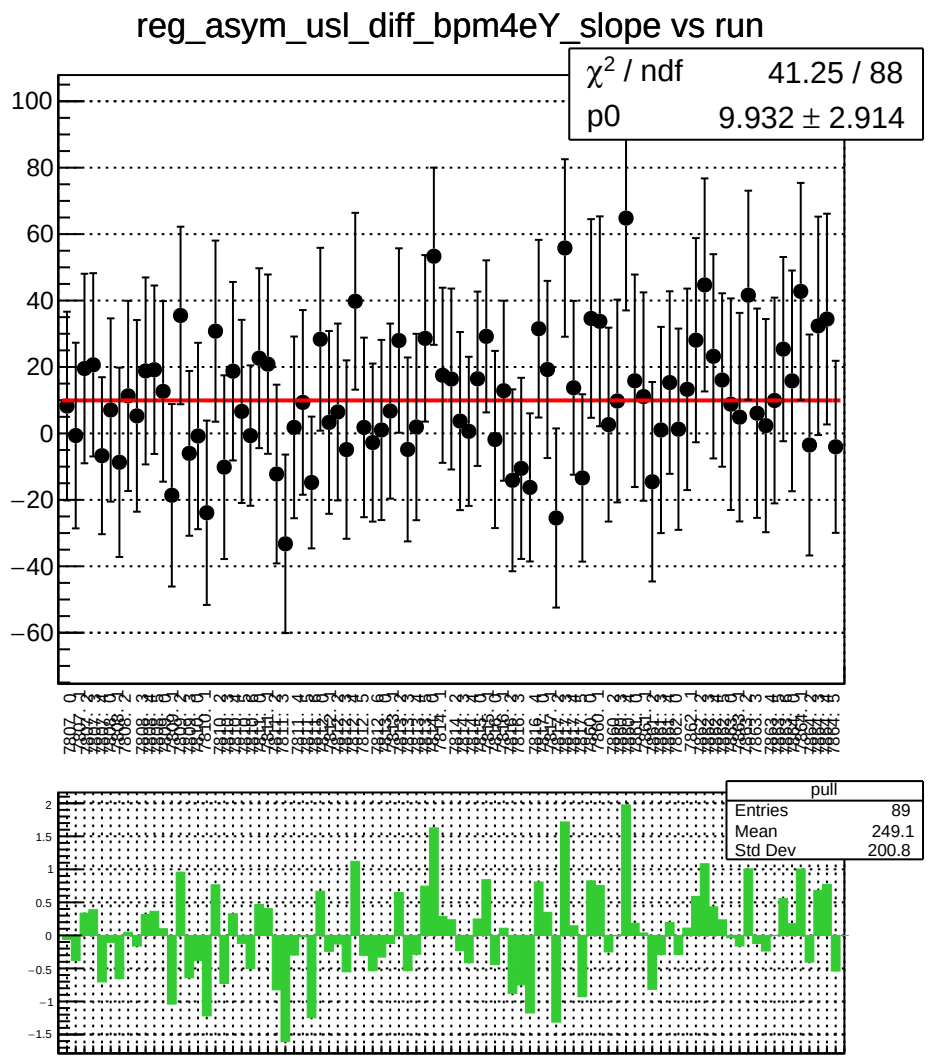

pull1D
Entries 89
Mean −0.01323
Std Dev 0.5849

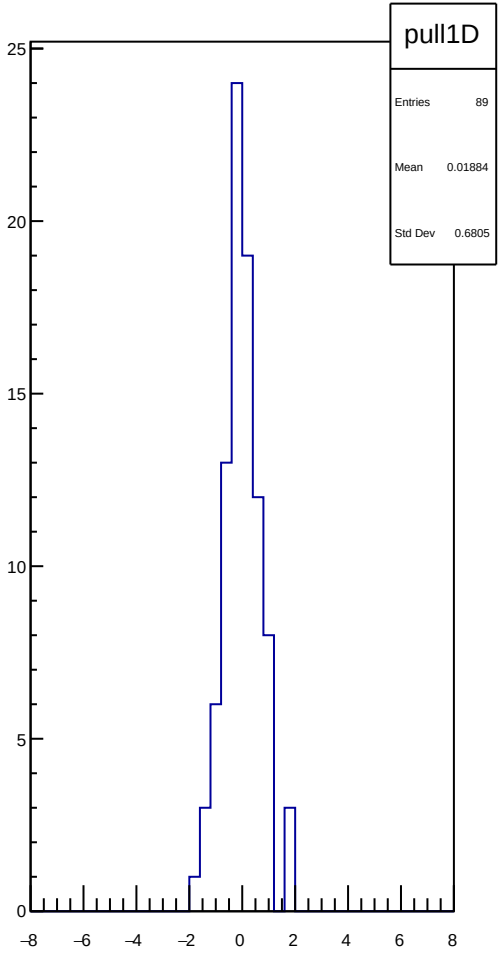

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 39.55 / 88
p0 15.06 ± 2.558
pull
Entries 89
Mean 182.3
Std Dev 137.5

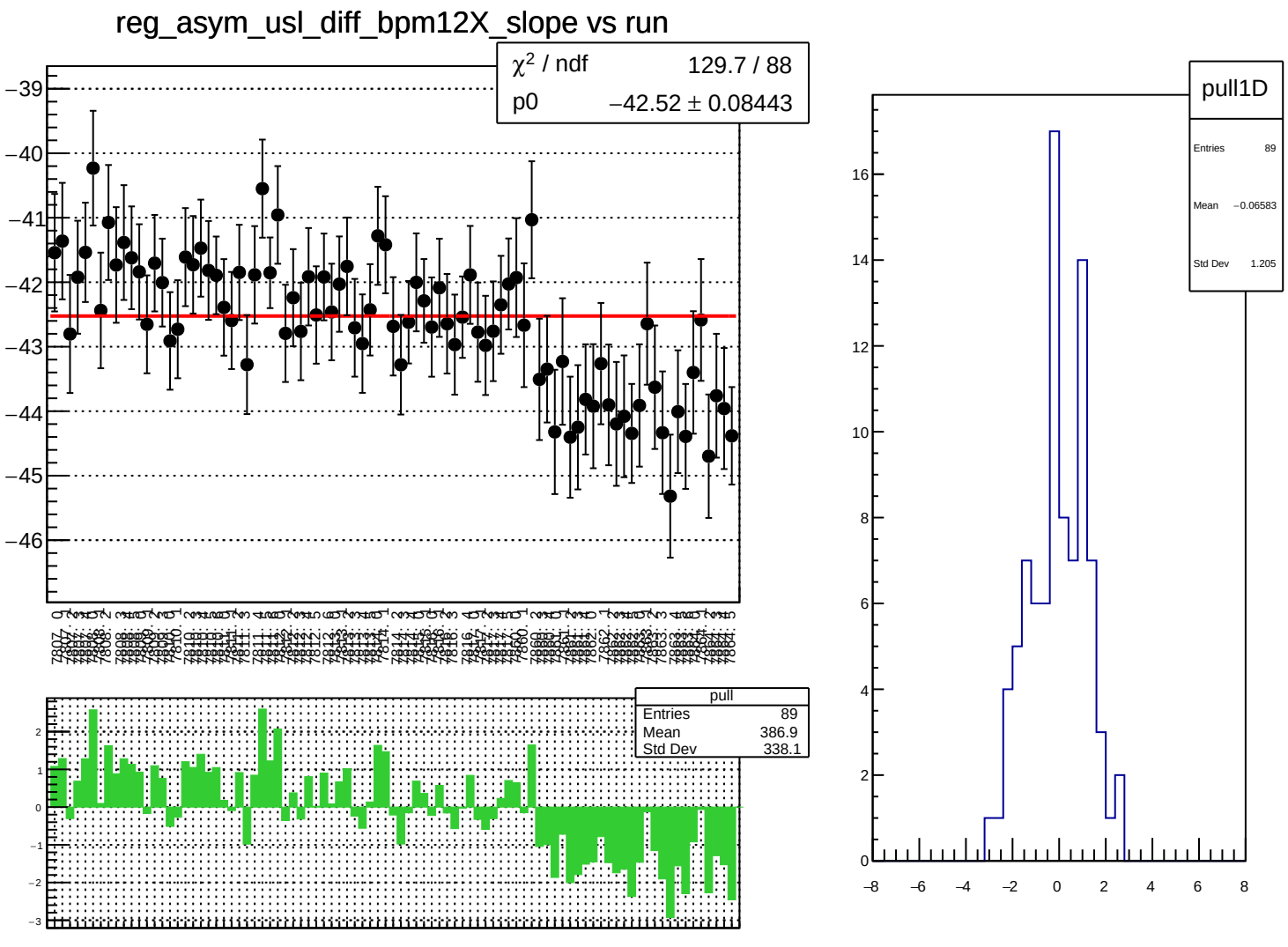

pull1D
Entries 89
Mean −0.009059
Std Dev 0.6665

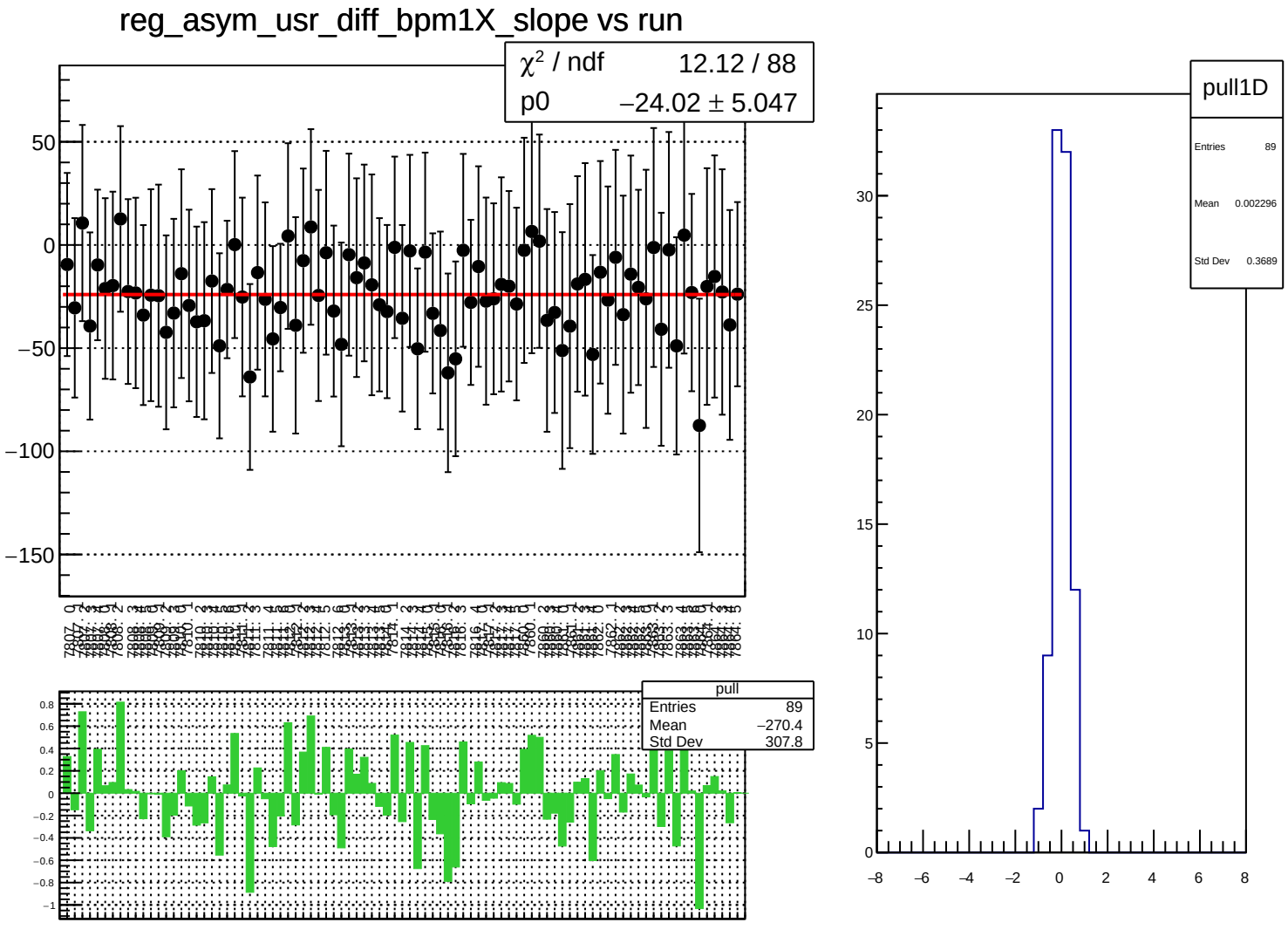

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 28.88 / 88
p0 −12.06 ± 2.275
pull
Entries 89
Mean 499.4
Std Dev 446.4

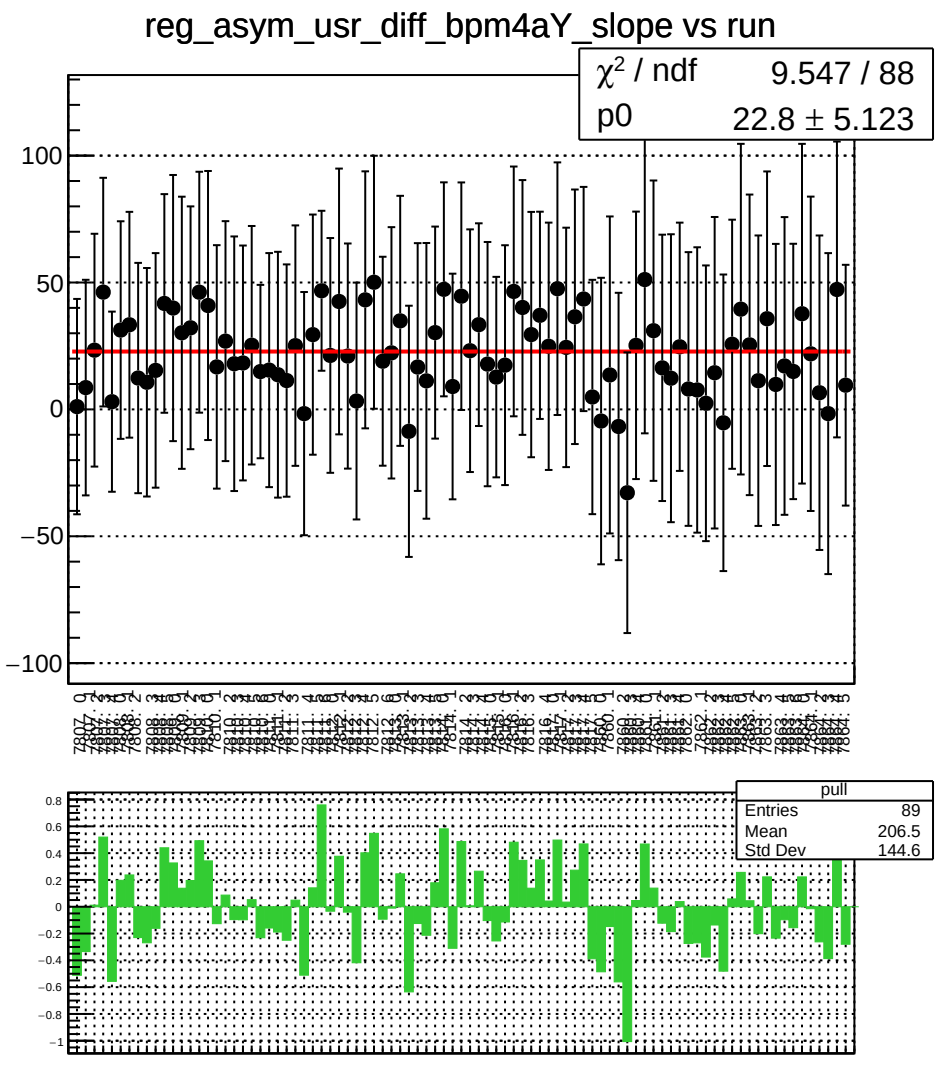

pull1D
Entries 89
Mean 0.007513
Std Dev 0.5696

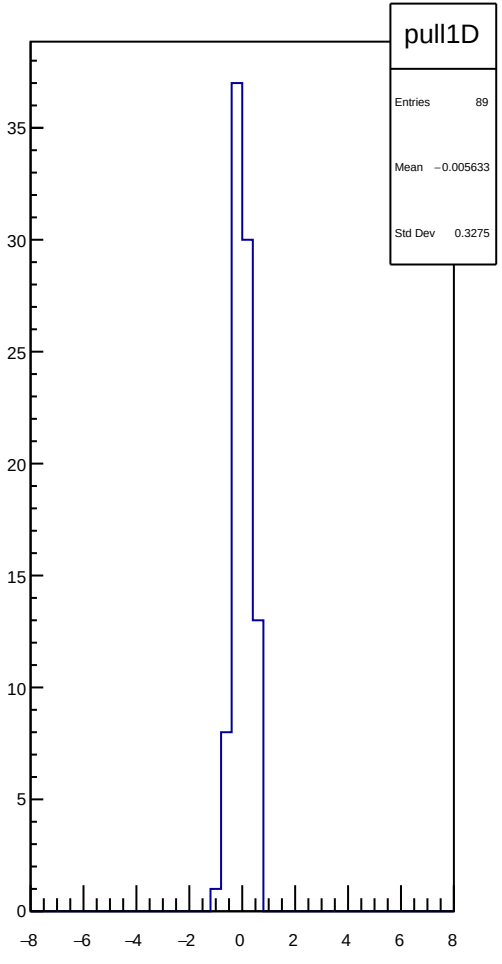

reg_asym_usl_diff_bpm4eY_slope vs run
χ^2 / ndf 41.25 / 88
p0 9.932 ± 2.914
pull
Entries 89
Mean 249.1
Std Dev 200.8

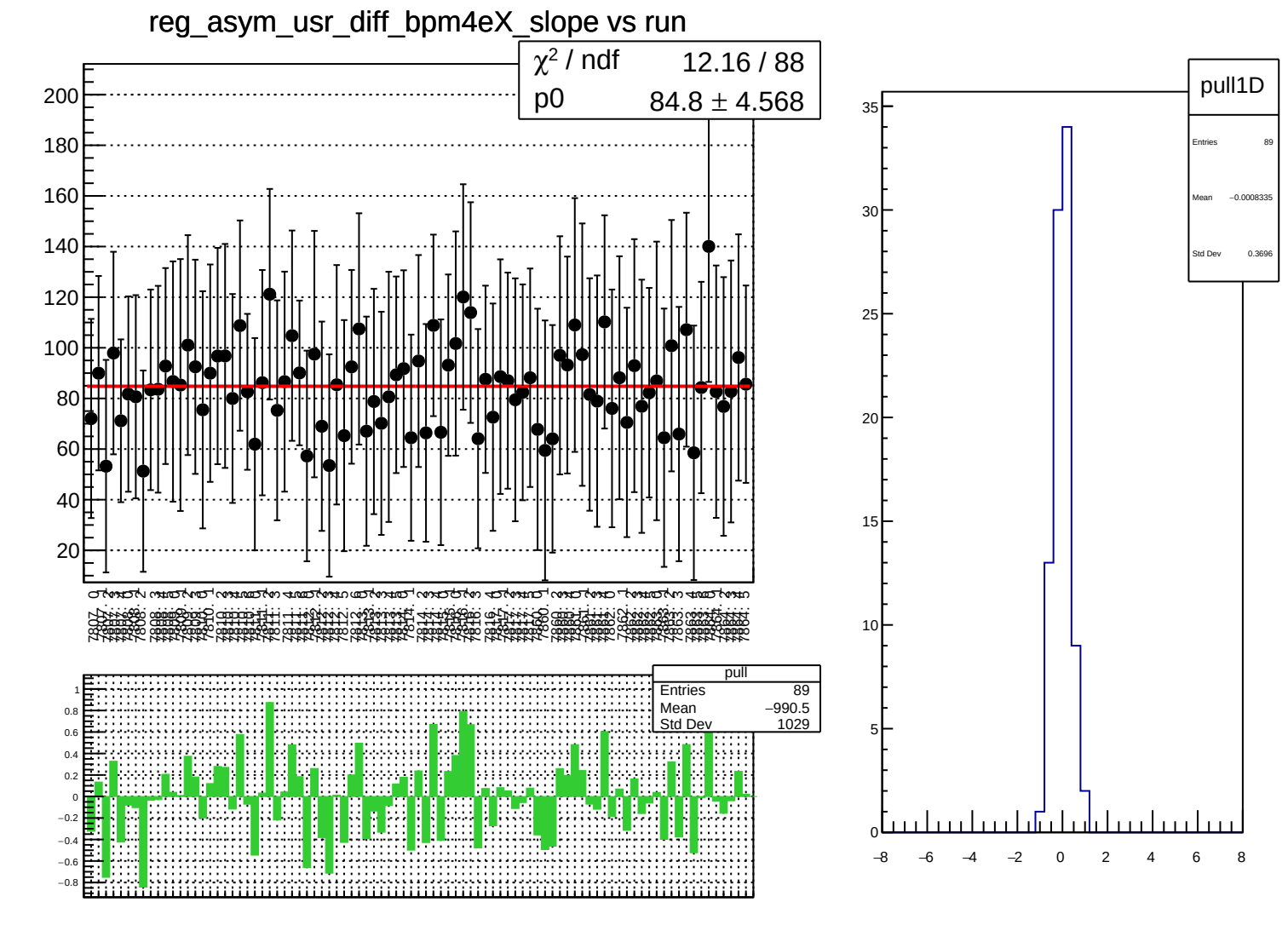

pull1D
Entries 89
Mean 0.01884
Std Dev 0.6805

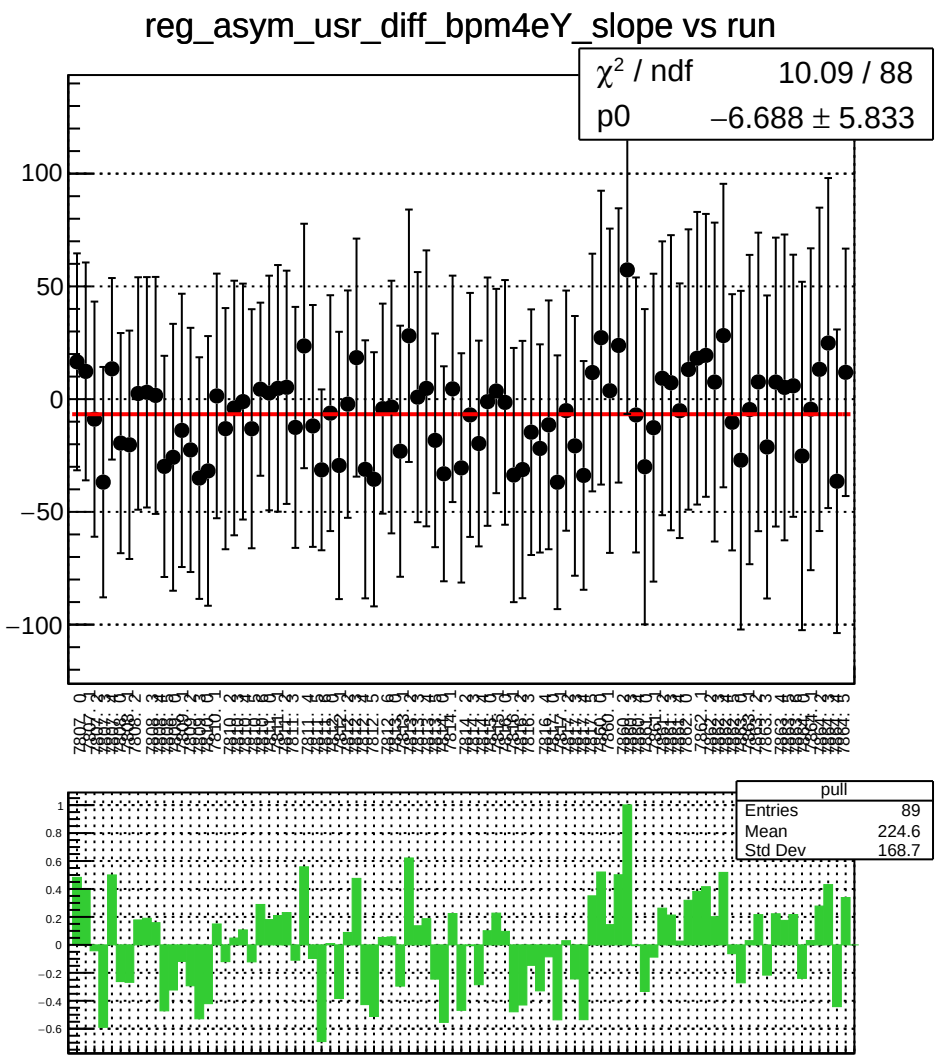

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 129.7 / 88
p0 −42.52 ± 0.08443
pull
Entries 89
Mean 386.9
Std Dev 338.1
pull1D
Entries 89
Mean −0.06583
Std Dev 1.205

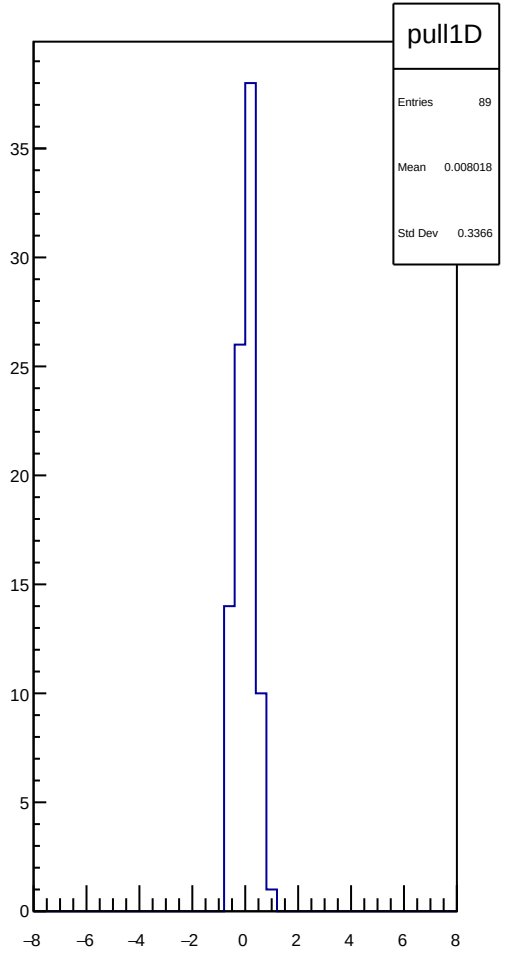

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 12.12 / 88
p0 −24.02 ± 5.047
50
0
−50
−100
−150
pull
Entries 89
Mean −270.4
Std Dev 307.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 89
Mean 0.002296
Std Dev 0.3689
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

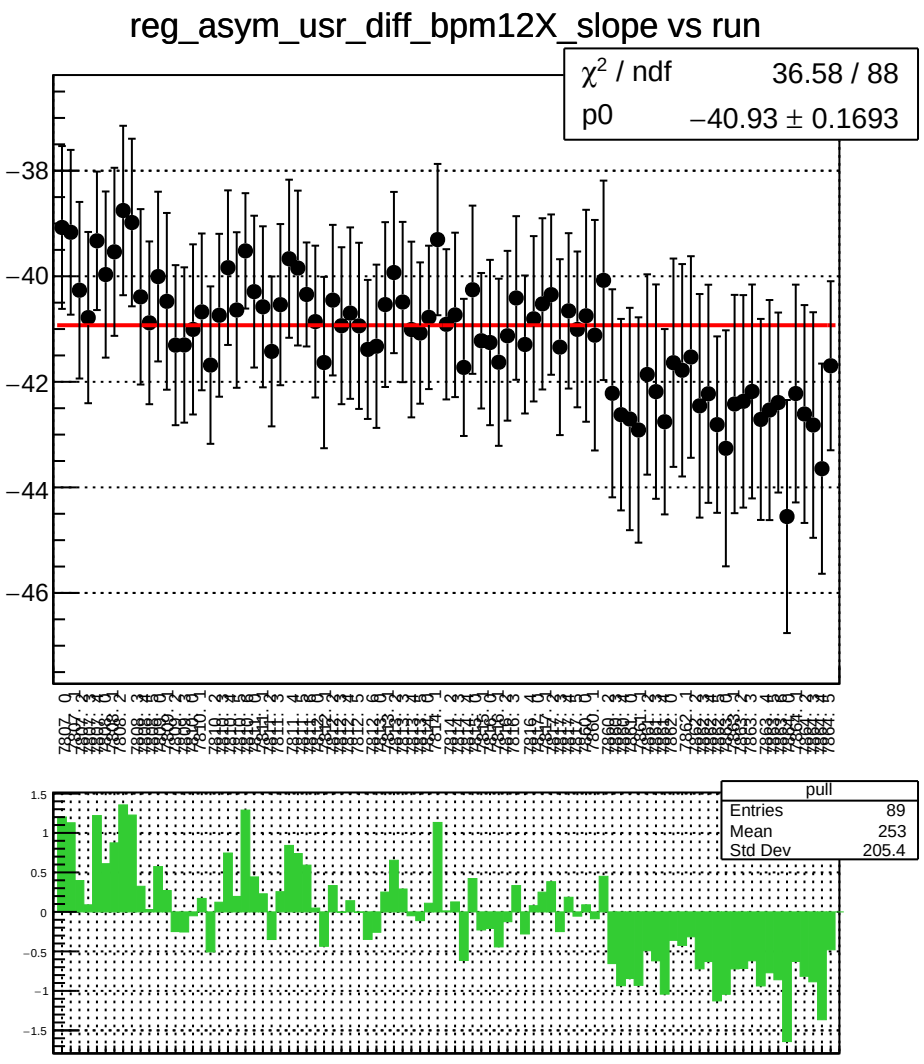

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 9.547 / 88
p0 22.8 ± 5.123
pull
Entries 89
Mean 206.5
Std Dev 144.6

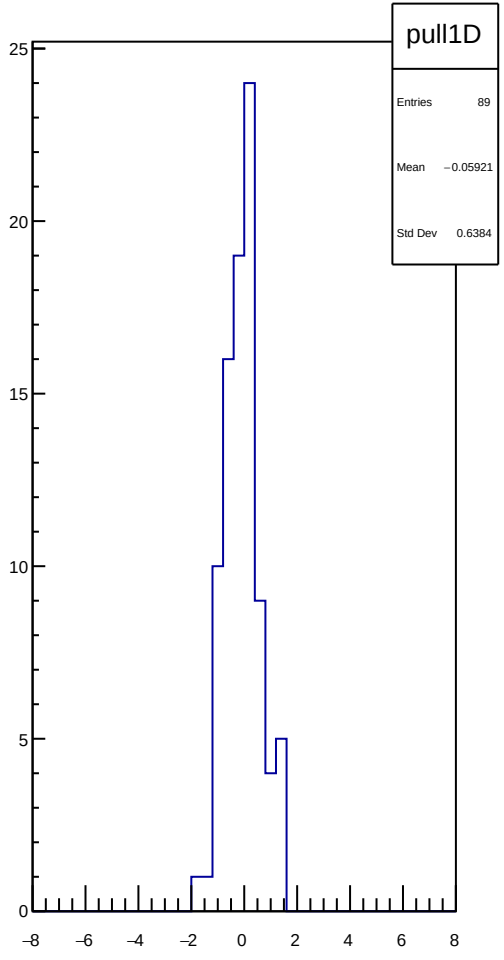

pull1D
Entries 89
Mean −0.005633
Std Dev 0.3275

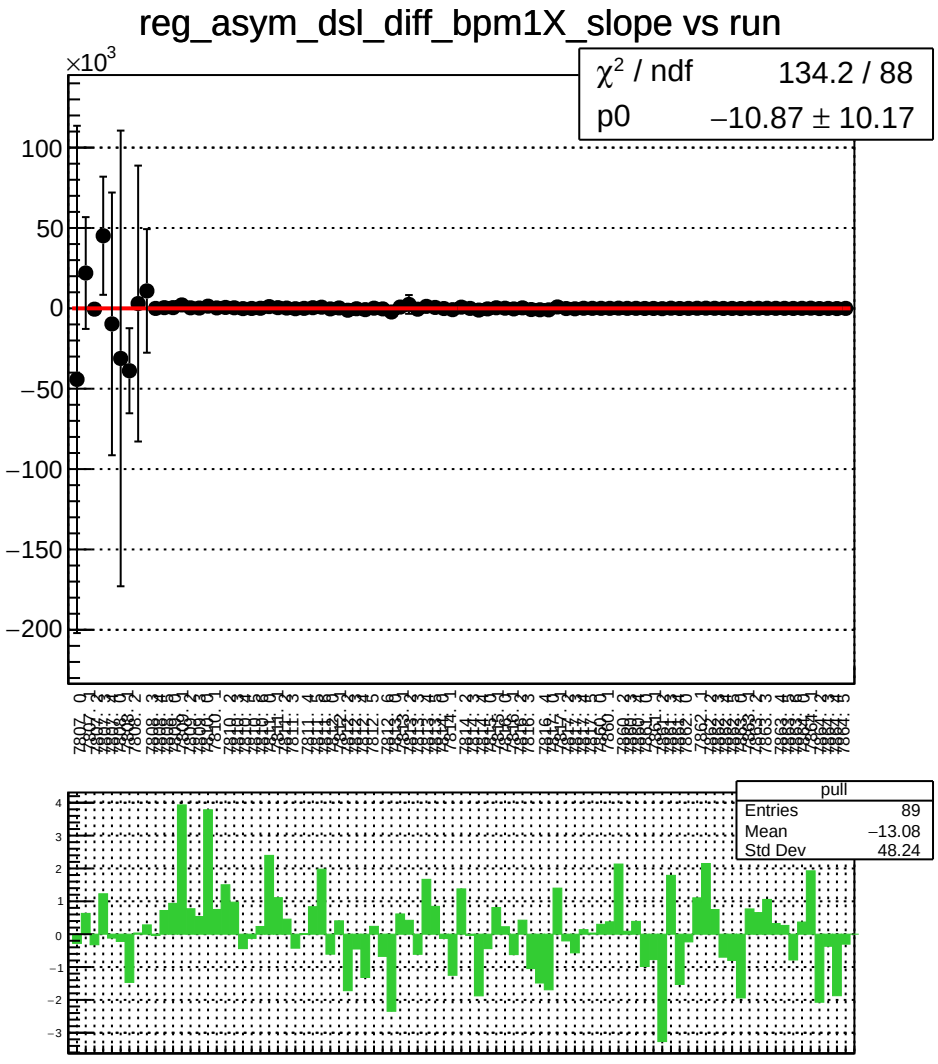

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 12.16 / 88
p0 84.8 ± 4.568
pull
Entries 89
Mean −990.5
Std Dev 1029
pull1D
Entries 89
Mean −0.0008335
Std Dev 0.3696

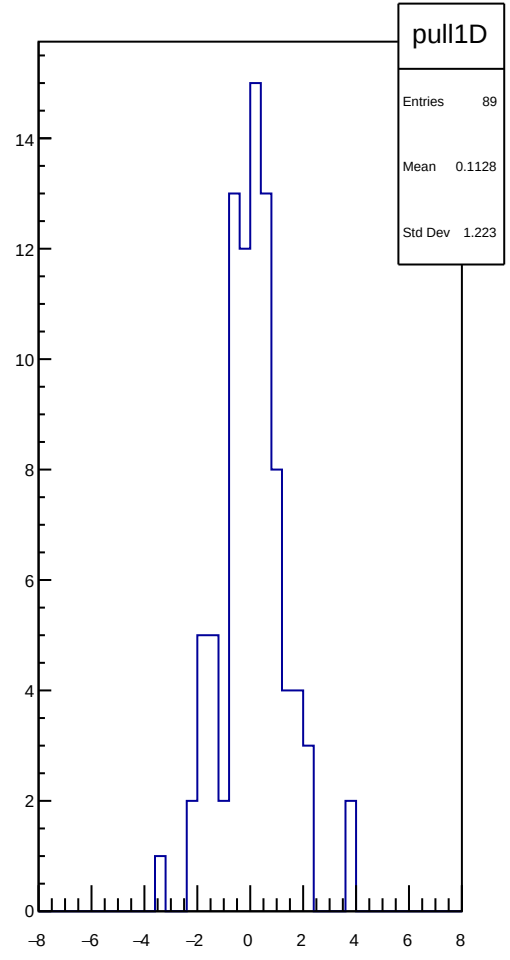

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 10.09 / 88
p0 −6.688 ± 5.833
100
50
0
−50
−100
pull
Entries 89
Mean 224.6
Std Dev 168.7
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

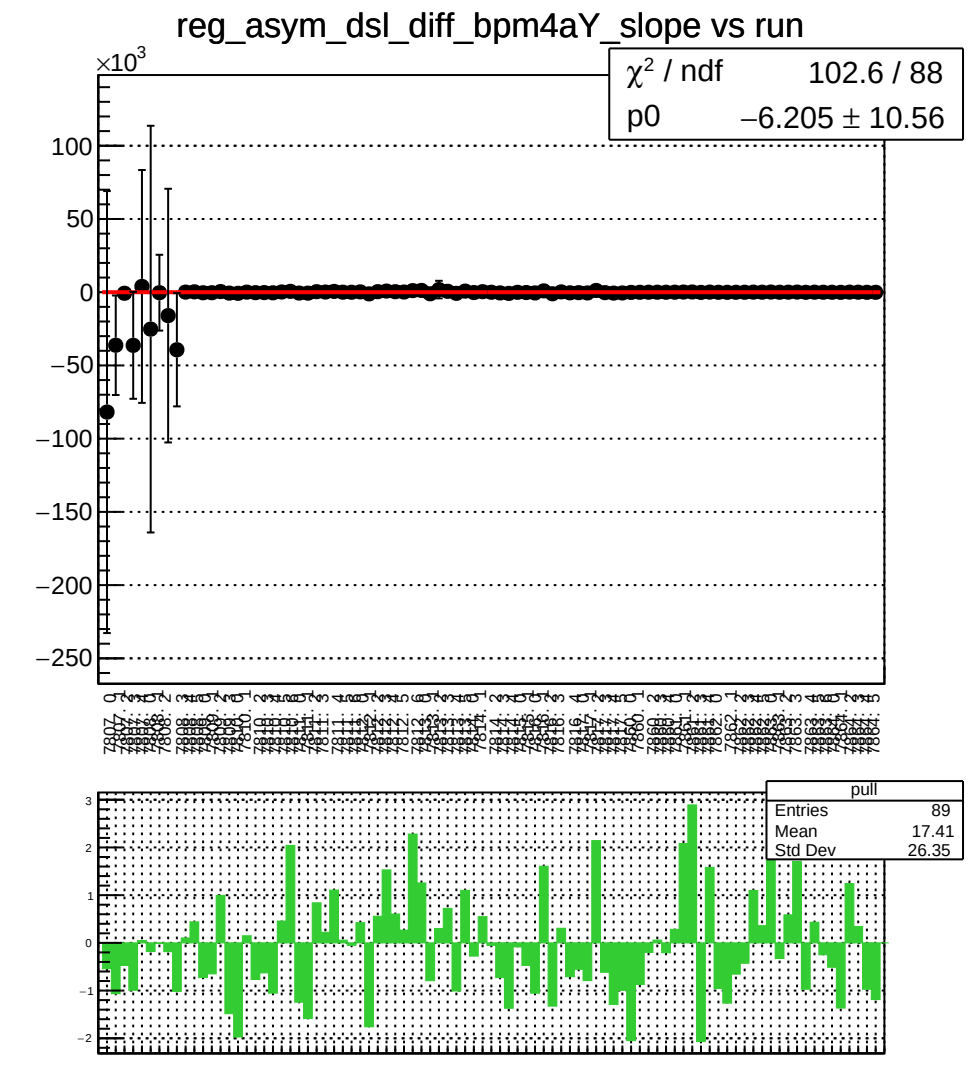

pull1D
Entries 89
Mean 0.008018
Std Dev 0.3366
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

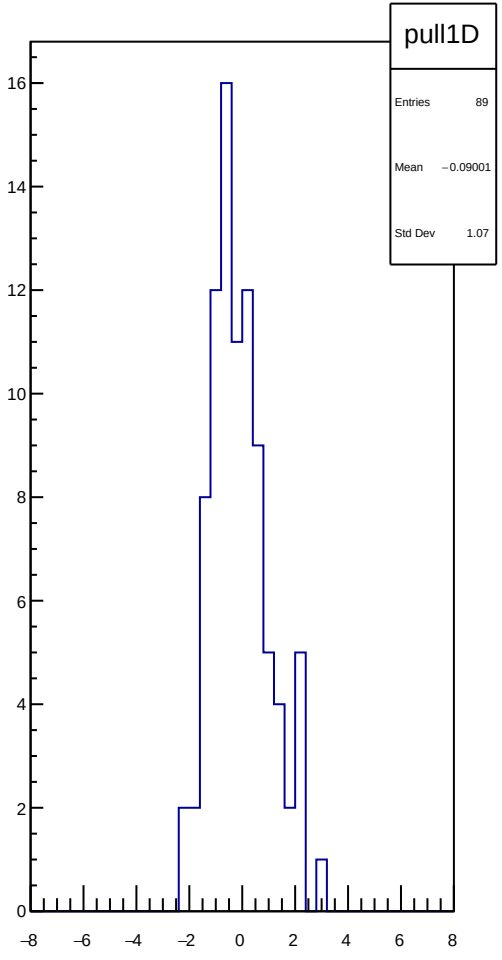

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 36.58 / 88
p0 −40.93 ± 0.1693
−38
−40
−42
−44
−46
pull
Entries 89
Mean 253
Std Dev 205.4
1.5
1
0.5
0
−0.5
−1
−1.5

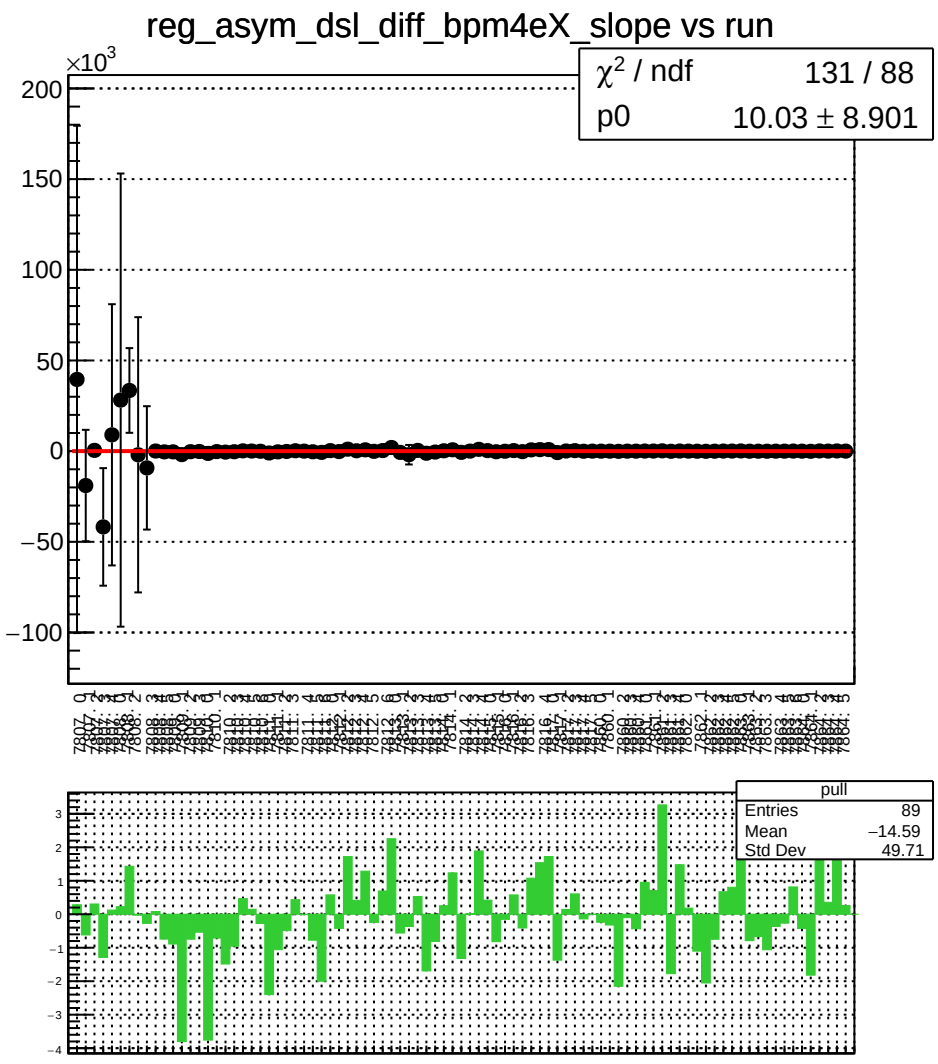

pull1D
Entries 89
Mean −0.05921
Std Dev 0.6384
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

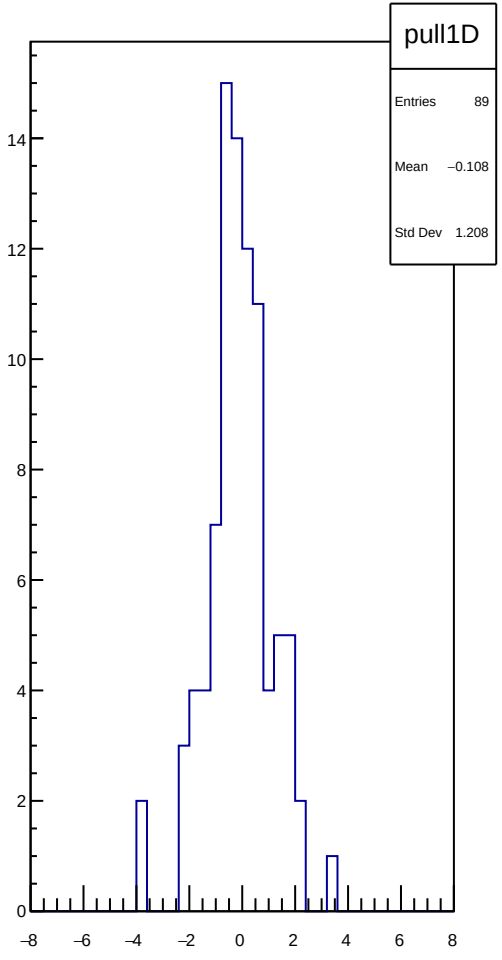

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 134.2 / 88
p0 −10.87 ± 10.17
×10³
pull
Entries 89
Mean −13.08
Std Dev 48.24

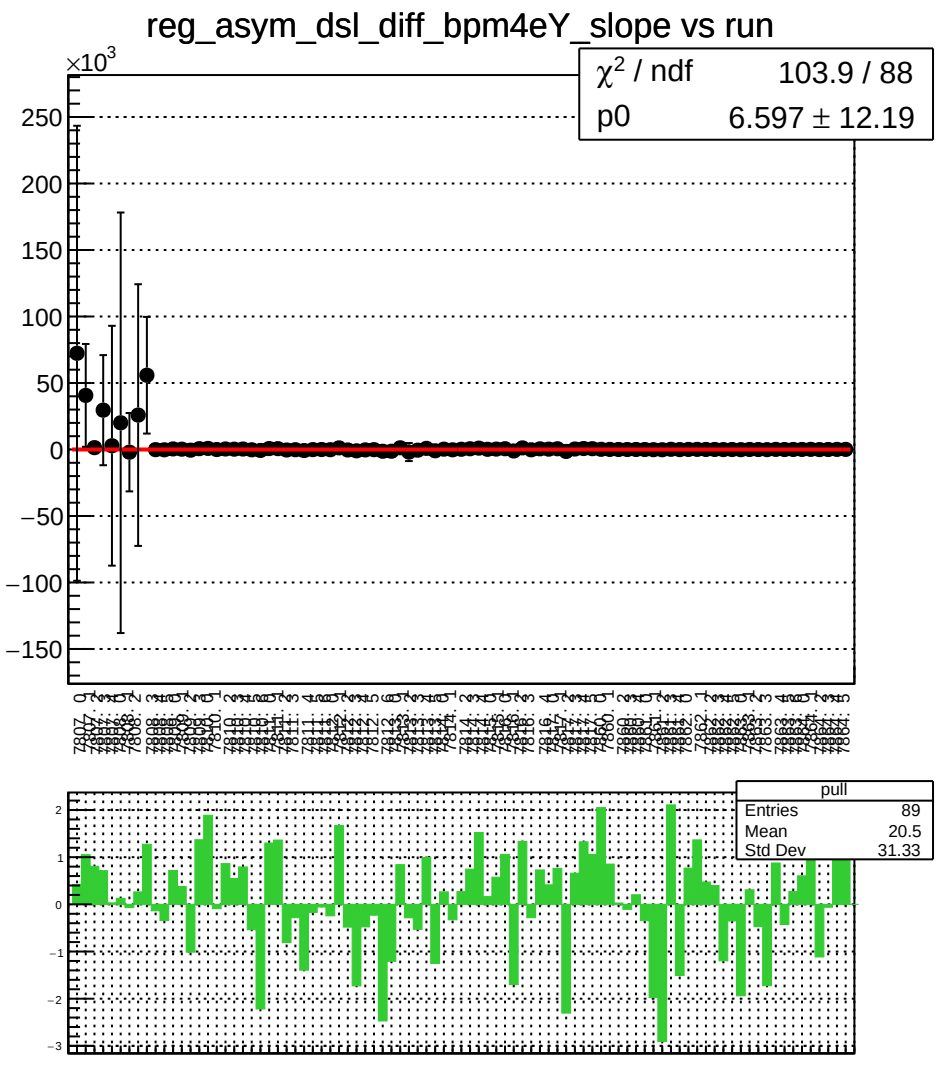

pull1D
Entries 89
Mean 0.1128
Std Dev 1.223

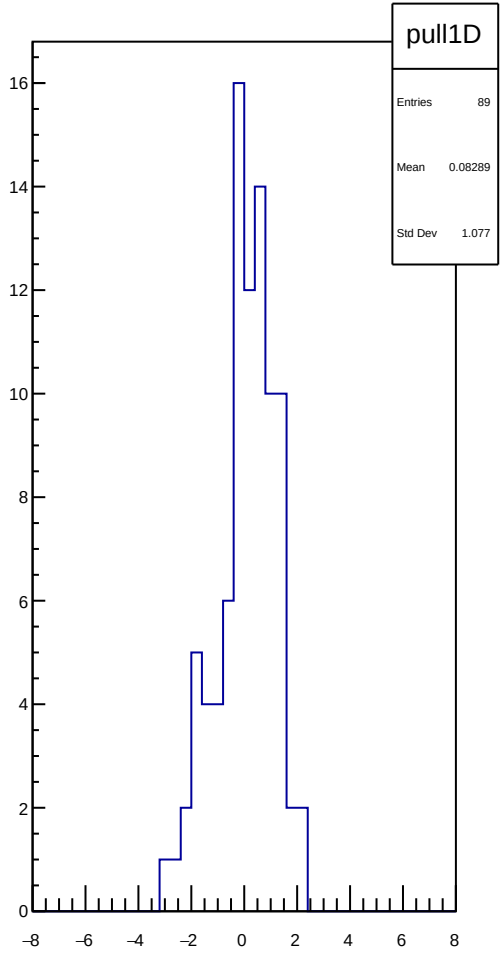

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 102.6 / 88
p0 −6.205 ± 10.56
×10³
pull
Entries 89
Mean 17.41
Std Dev 26.35

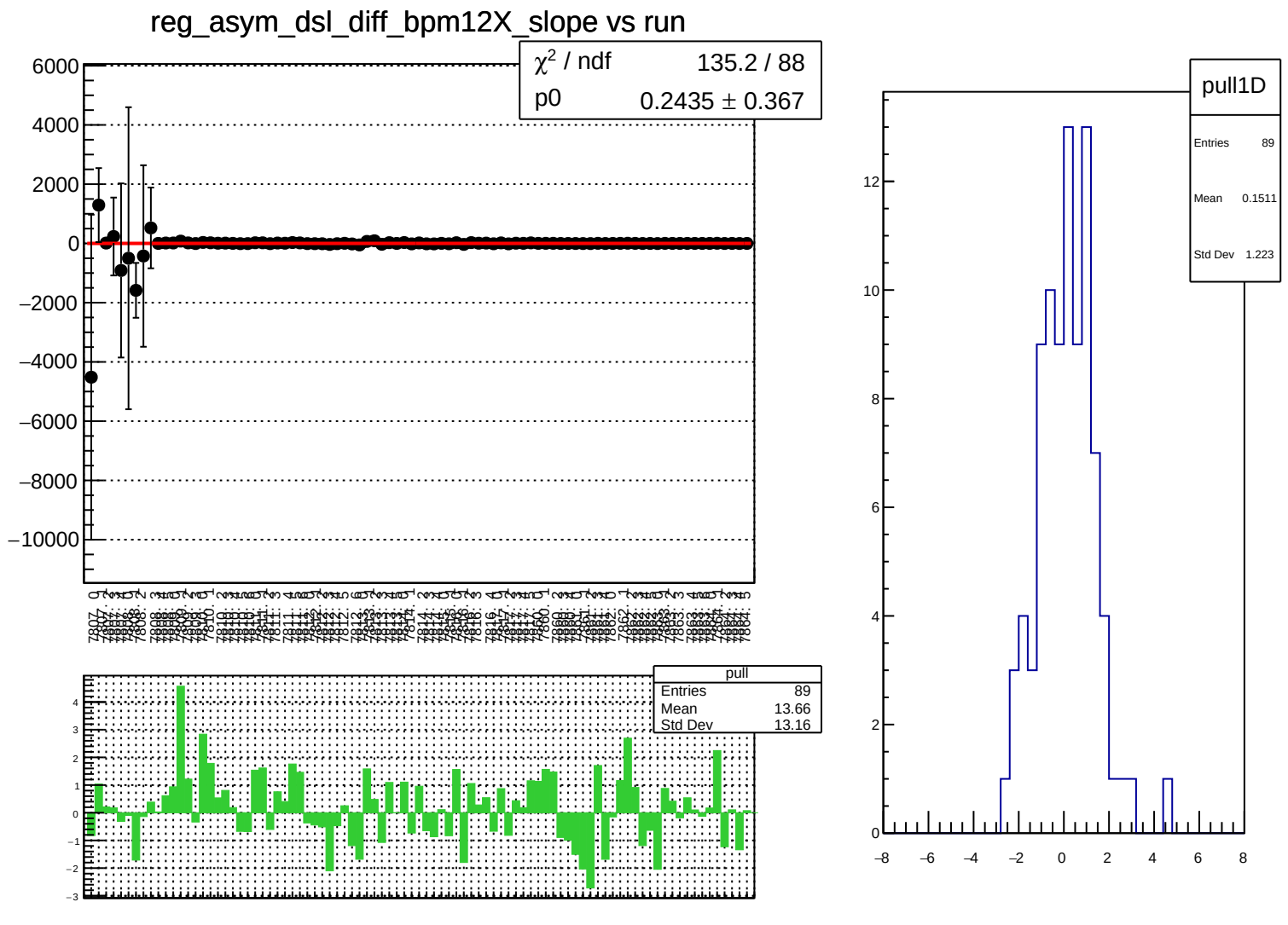

pull1D
Entries 89
Mean −0.09001
Std Dev 1.07

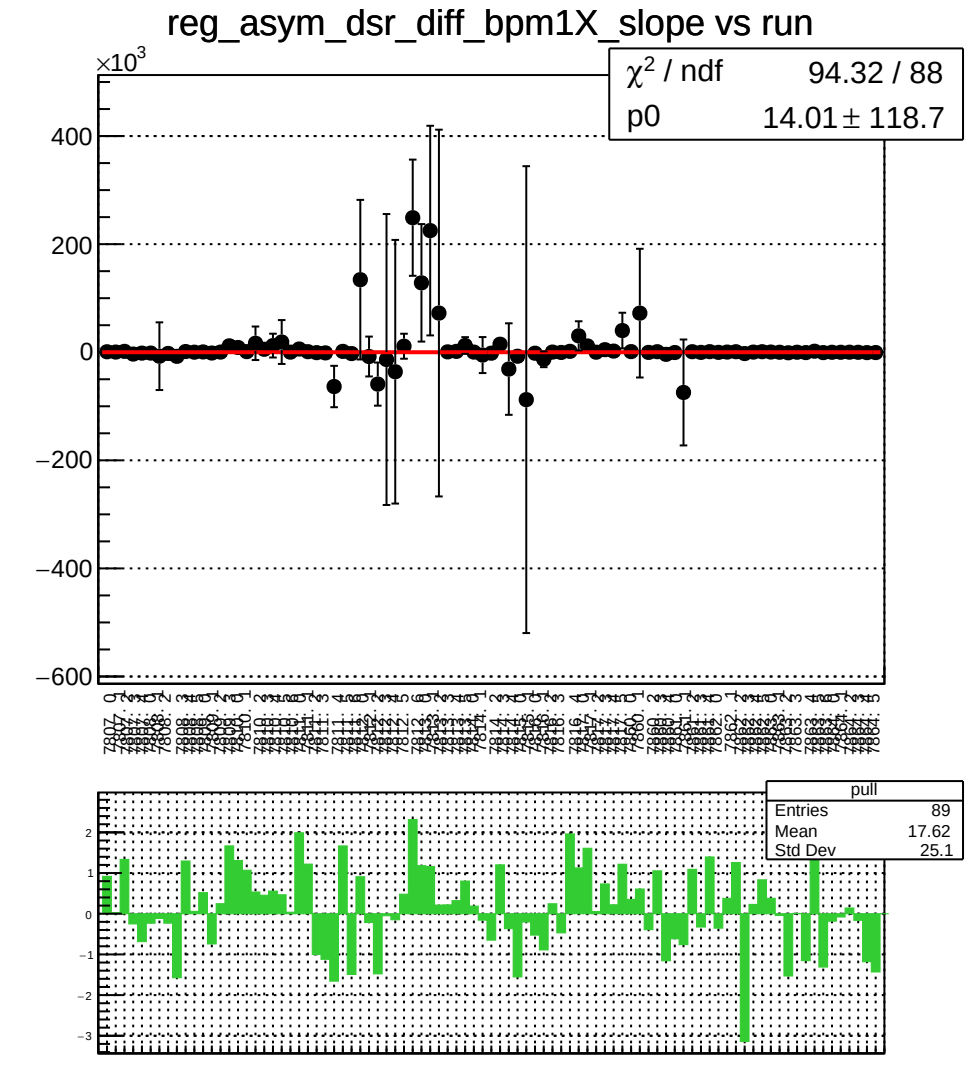

reg_asym_dsl_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 131 / 88
p0 10.03 ± 8.901
pull
Entries 89
Mean −14.59
Std Dev 49.71

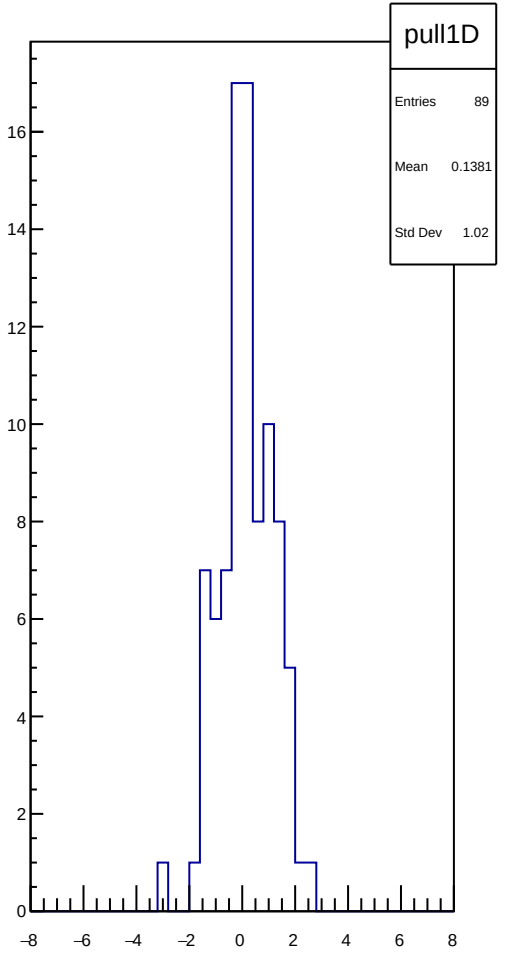

pull1D
Entries 89
Mean −0.108
Std Dev 1.208

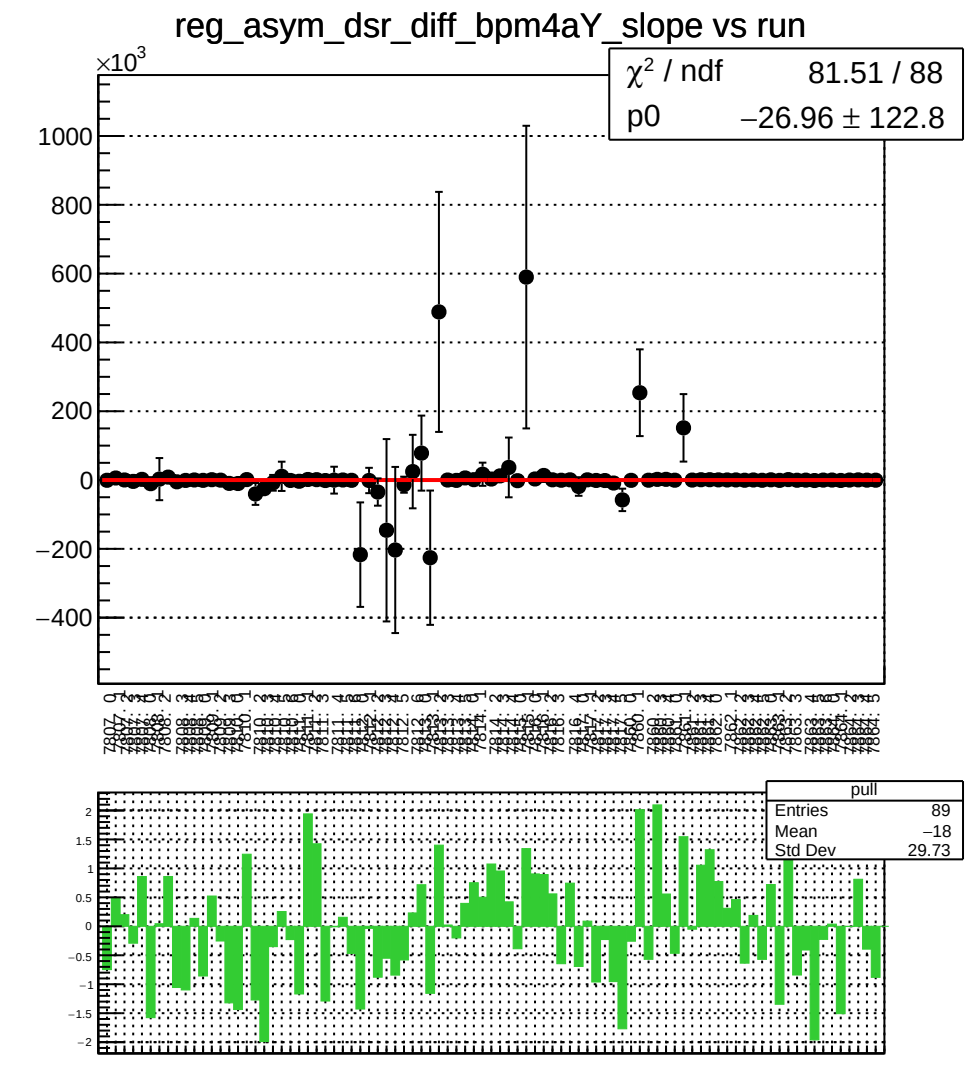

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 103.9 / 88
p0 6.597 ± 12.19
×10³
pull
Entries 89
Mean 20.5
Std Dev 31.33

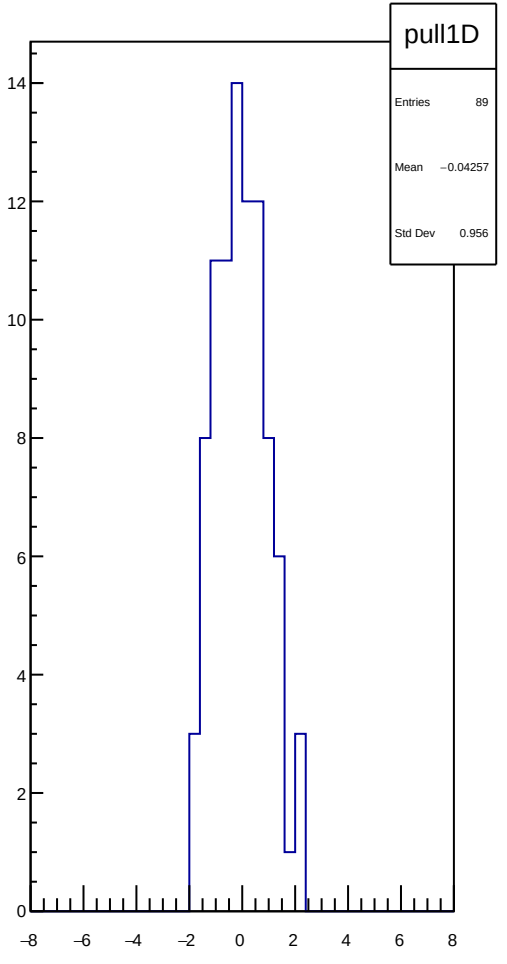

pull1D
Entries 89
Mean 0.08289
Std Dev 1.077

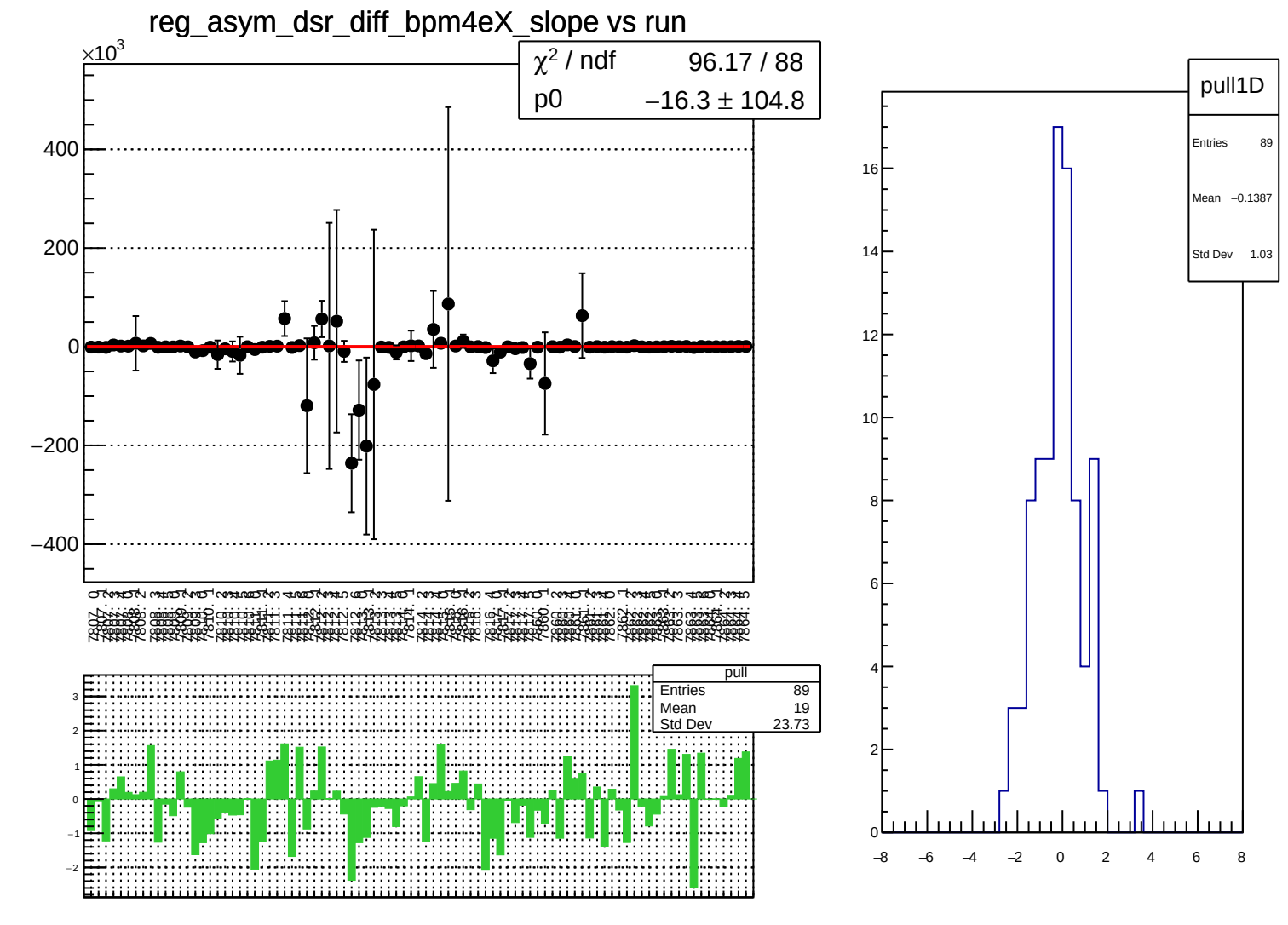

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 135.2 / 88
p0 0.2435 ± 0.367
pull
Entries 89
Mean 13.66
Std Dev 13.16
pull1D
Entries 89
Mean 0.1511
Std Dev 1.223

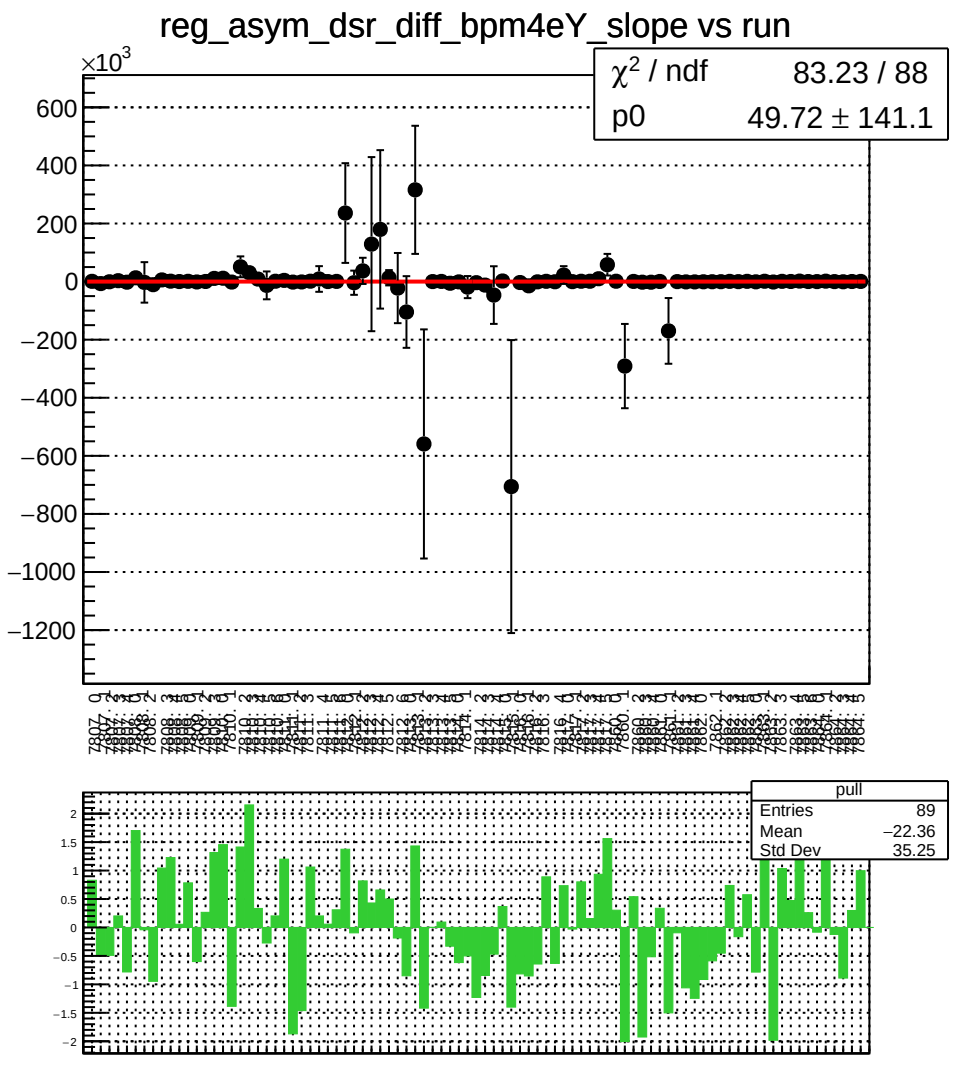

reg_asym_dsr_diff_bpm1X_slope vs run
×10^3
χ² / ndf 94.32 / 88
p0 14.01 ± 118.7
400
200
0
−200
−400
−600
pull
Entries 89
Mean 17.62
Std Dev 25.1
2
1
0
−1
−2
−3

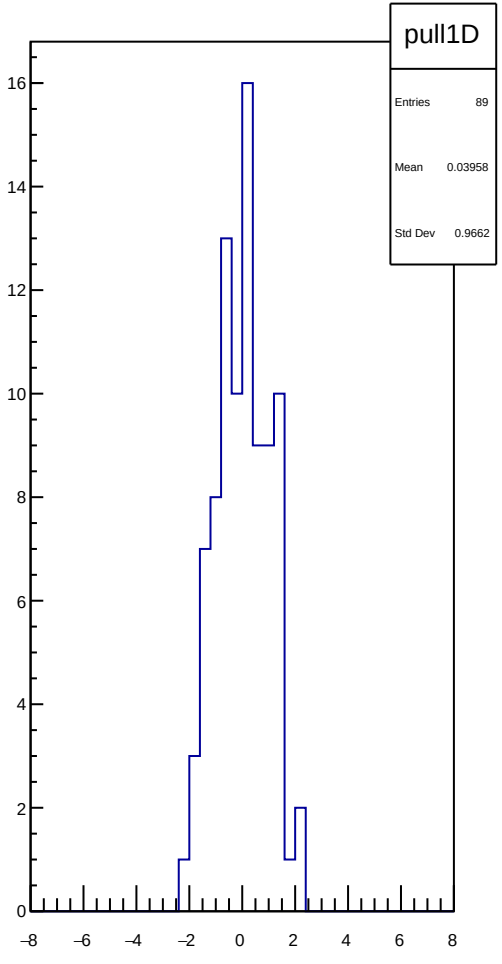

pull1D
Entries 89
Mean 0.1381
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

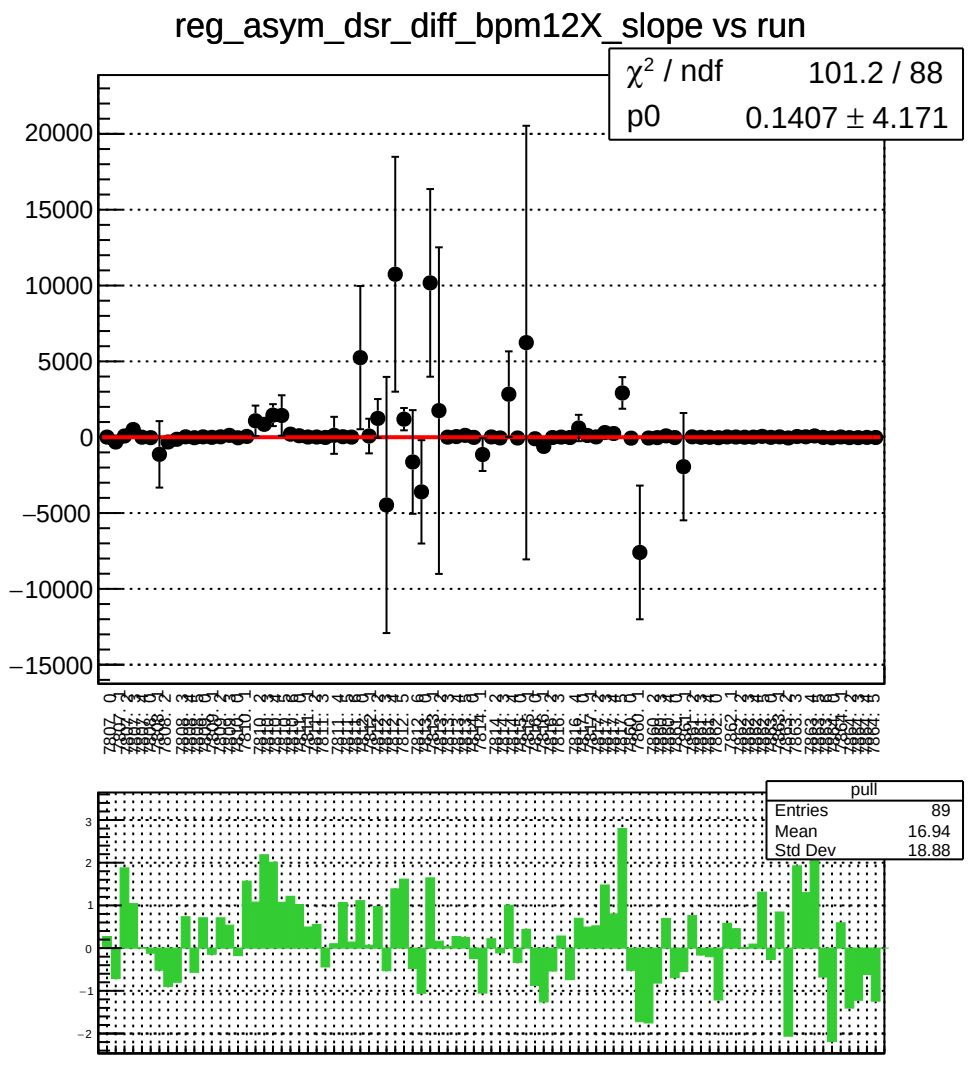

reg_asym_dsr_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 81.51 / 88
p0 −26.96 ± 122.8
1000
800
600
400
200
0
−200
−400
pull
Entries 89
Mean −18
Std Dev 29.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

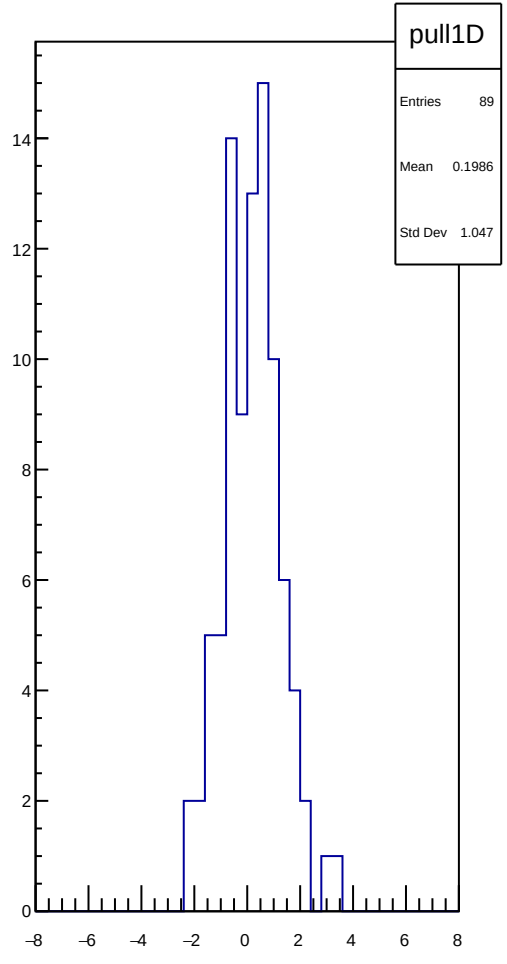

pull1D
Entries 89
Mean −0.04257
Std Dev 0.956
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

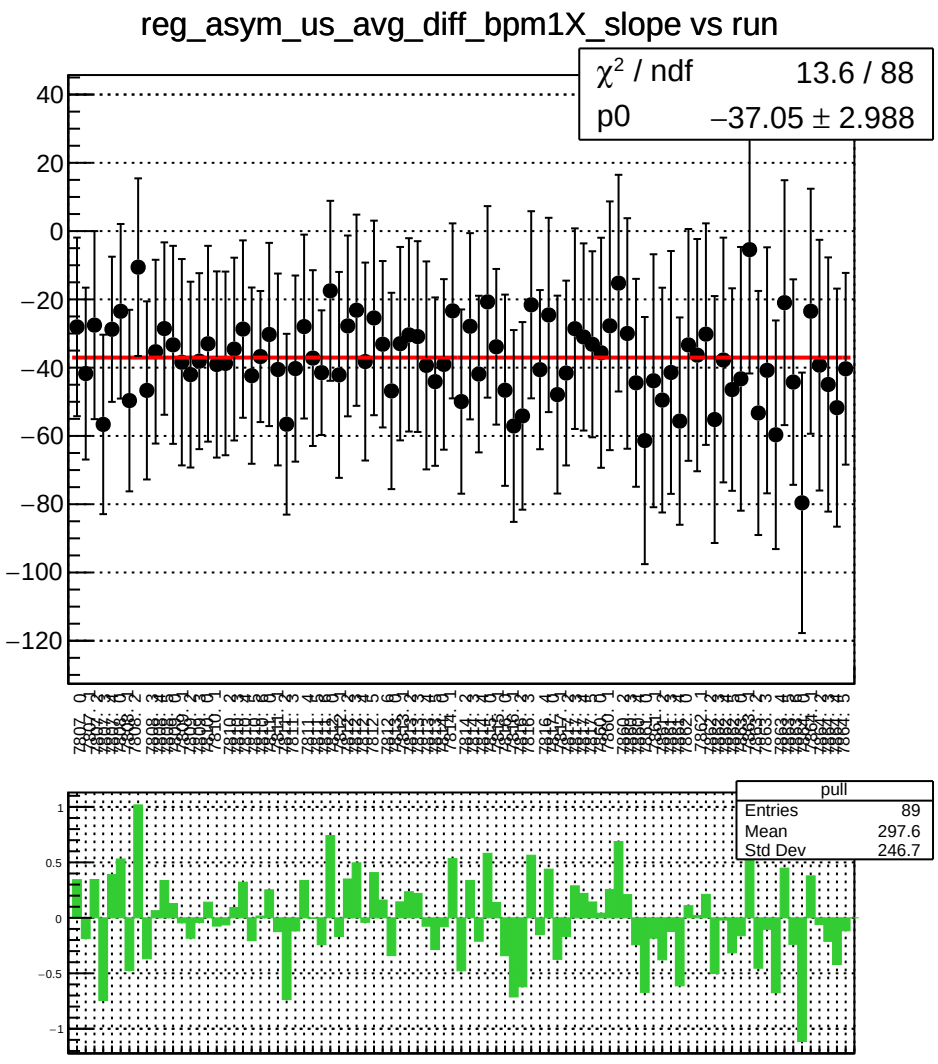

reg_asym_dsr_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 96.17 / 88
p0 −16.3 ± 104.8
400
200
0
−200
−400
pull
Entries 89
Mean 19
Std Dev 23.73
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.1387
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

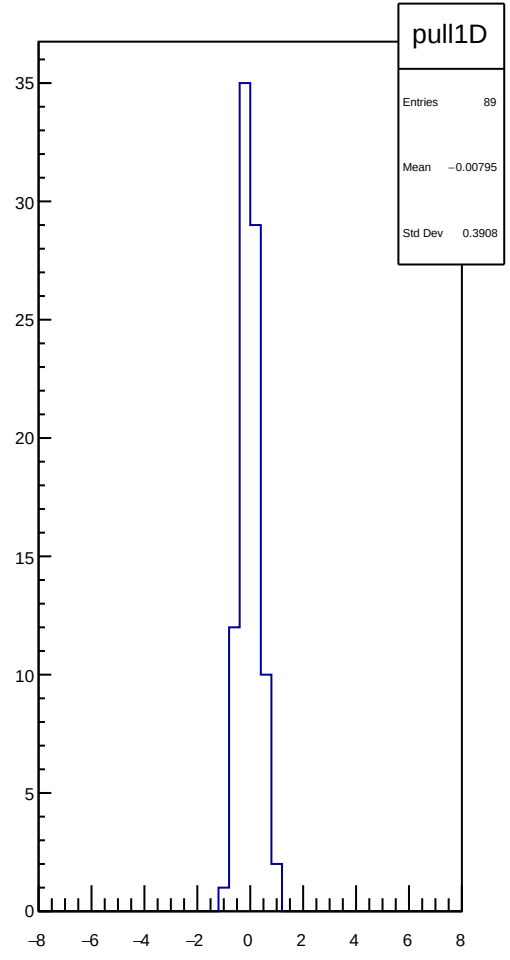

reg_asym_dsr_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 83.23 / 88
p0 49.72 ± 141.1
600
400
200
0
−200
−400
−600
−800
−1000
−1200
pull
Entries 89
Mean −22.36
Std Dev 35.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

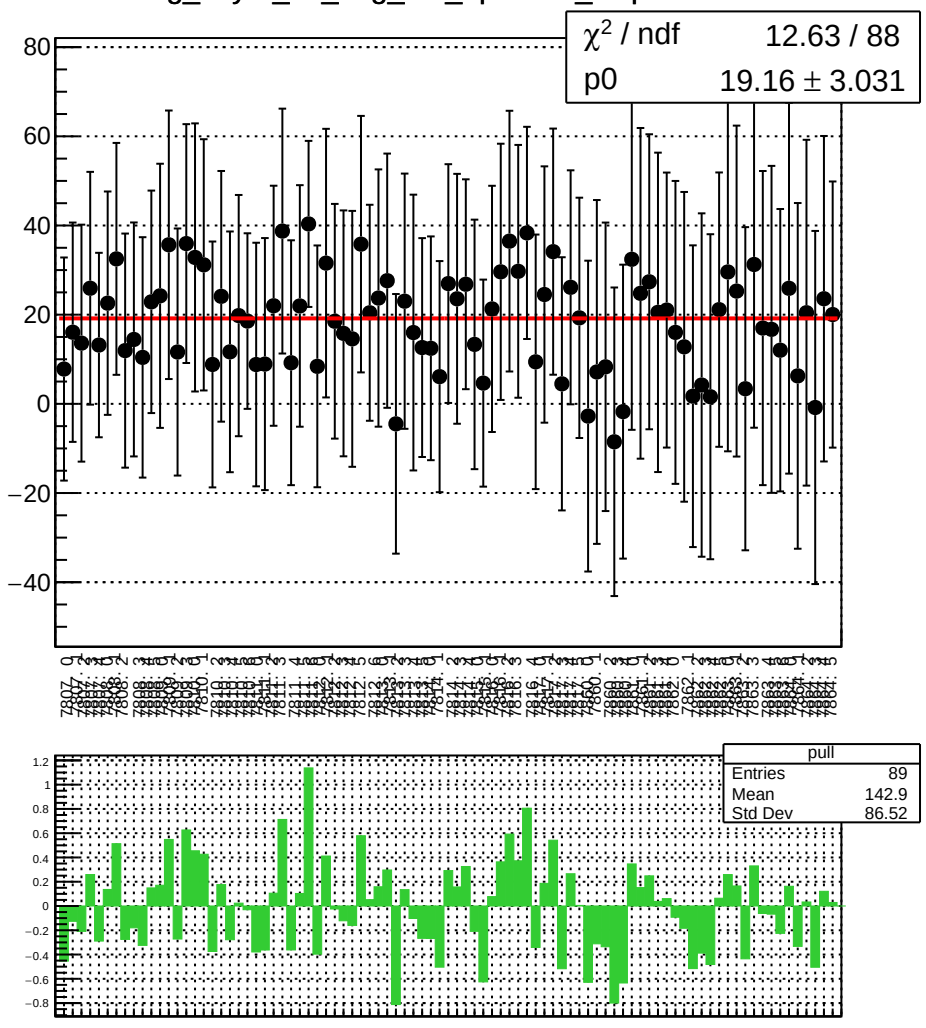

pull1D
Entries 89
Mean 0.03958
Std Dev 0.9662
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

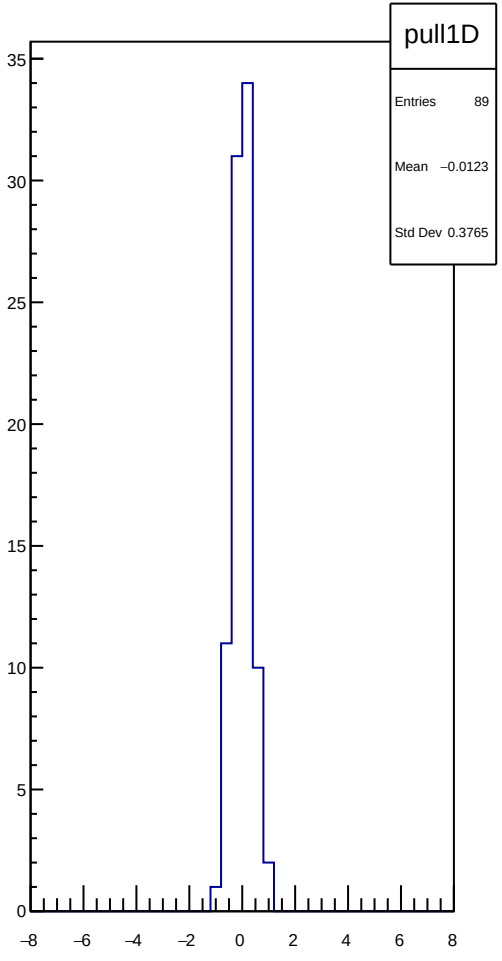

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 101.2 / 88
p0 0.1407 ± 4.171
pull
Entries 89
Mean 16.94
Std Dev 18.88

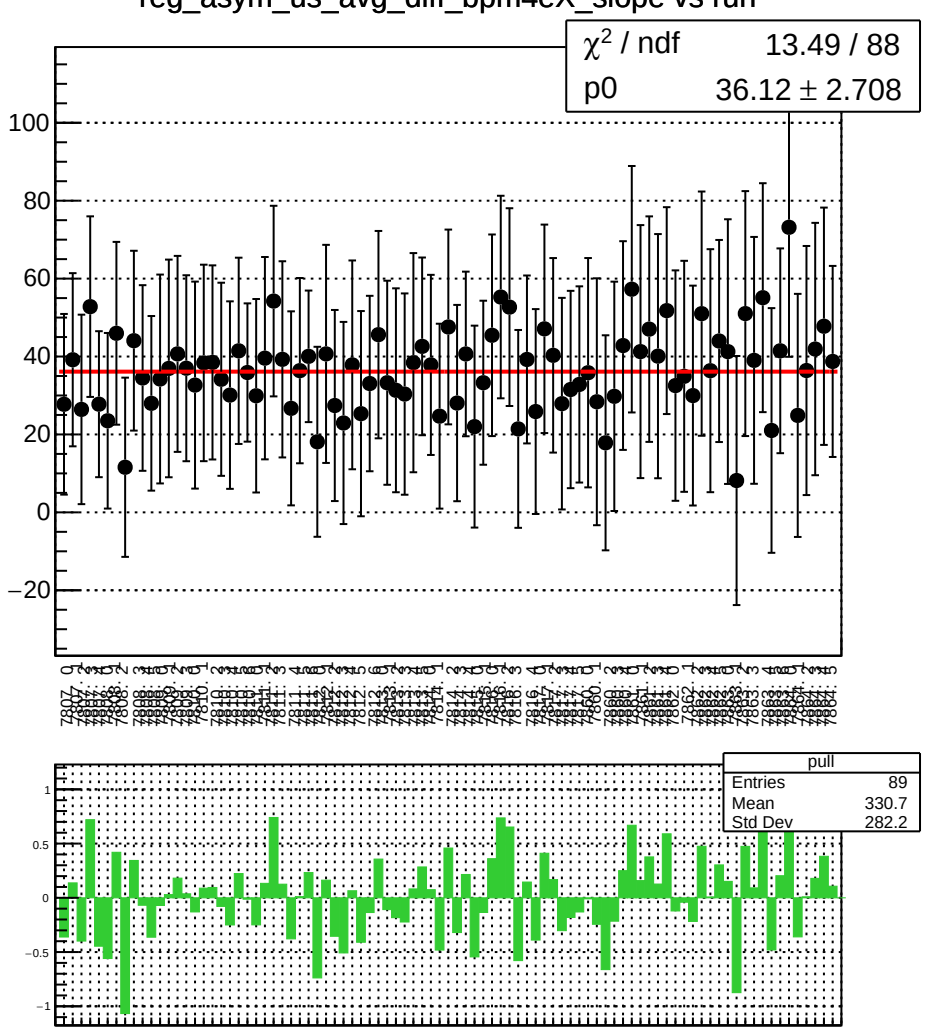

pull1D
Entries 89
Mean 0.1986
Std Dev 1.047

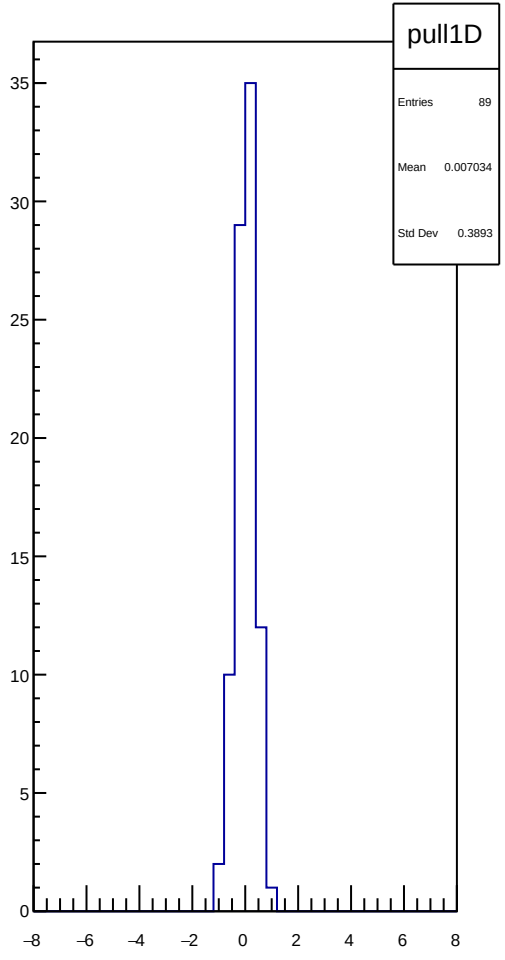

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 13.6 / 88
p0 −37.05 ± 2.988
pull
Entries 89
Mean 297.6
Std Dev 246.7

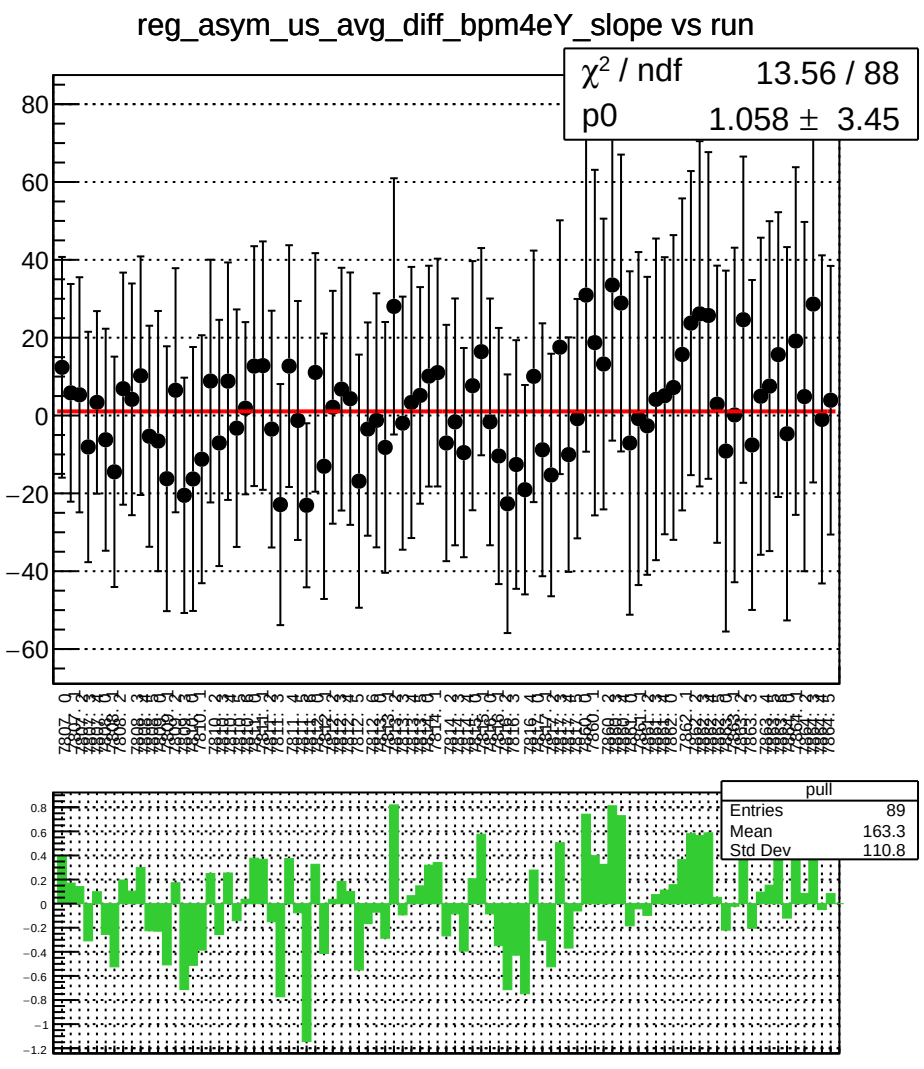

pull1D
Entries 89
Mean −0.00795
Std Dev 0.3908

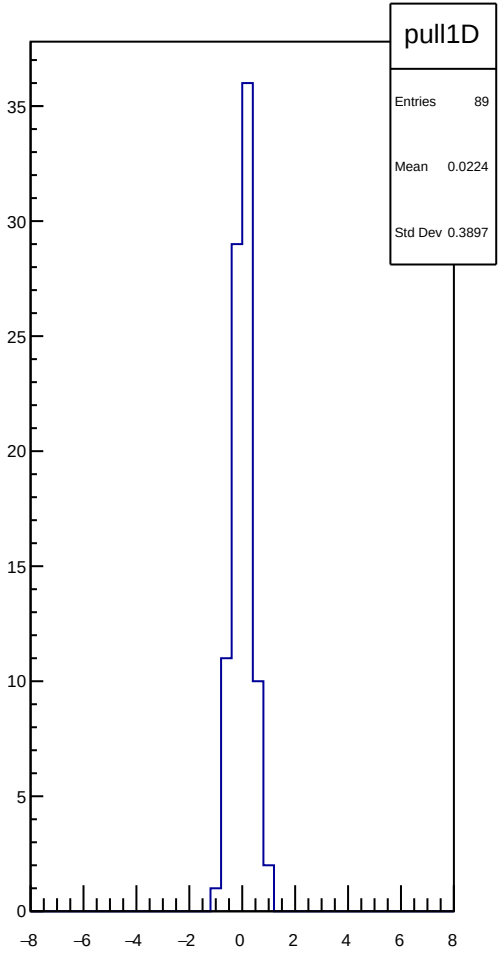

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.63 / 88
p0 19.16 ± 3.031
pull
Entries 89
Mean 142.9
Std Dev 86.52

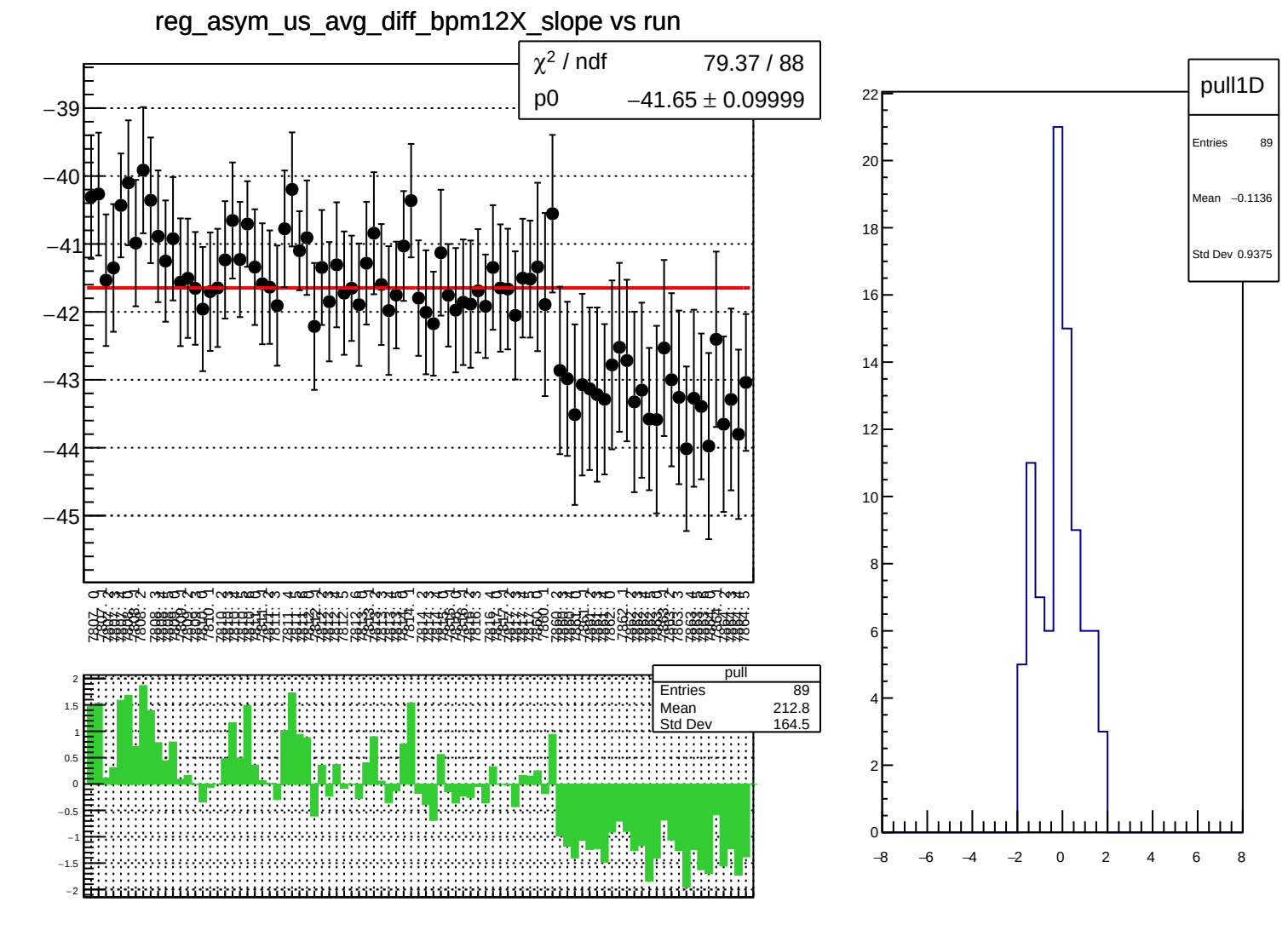

pull1D
Entries 89
Mean −0.0123
Std Dev 0.3765

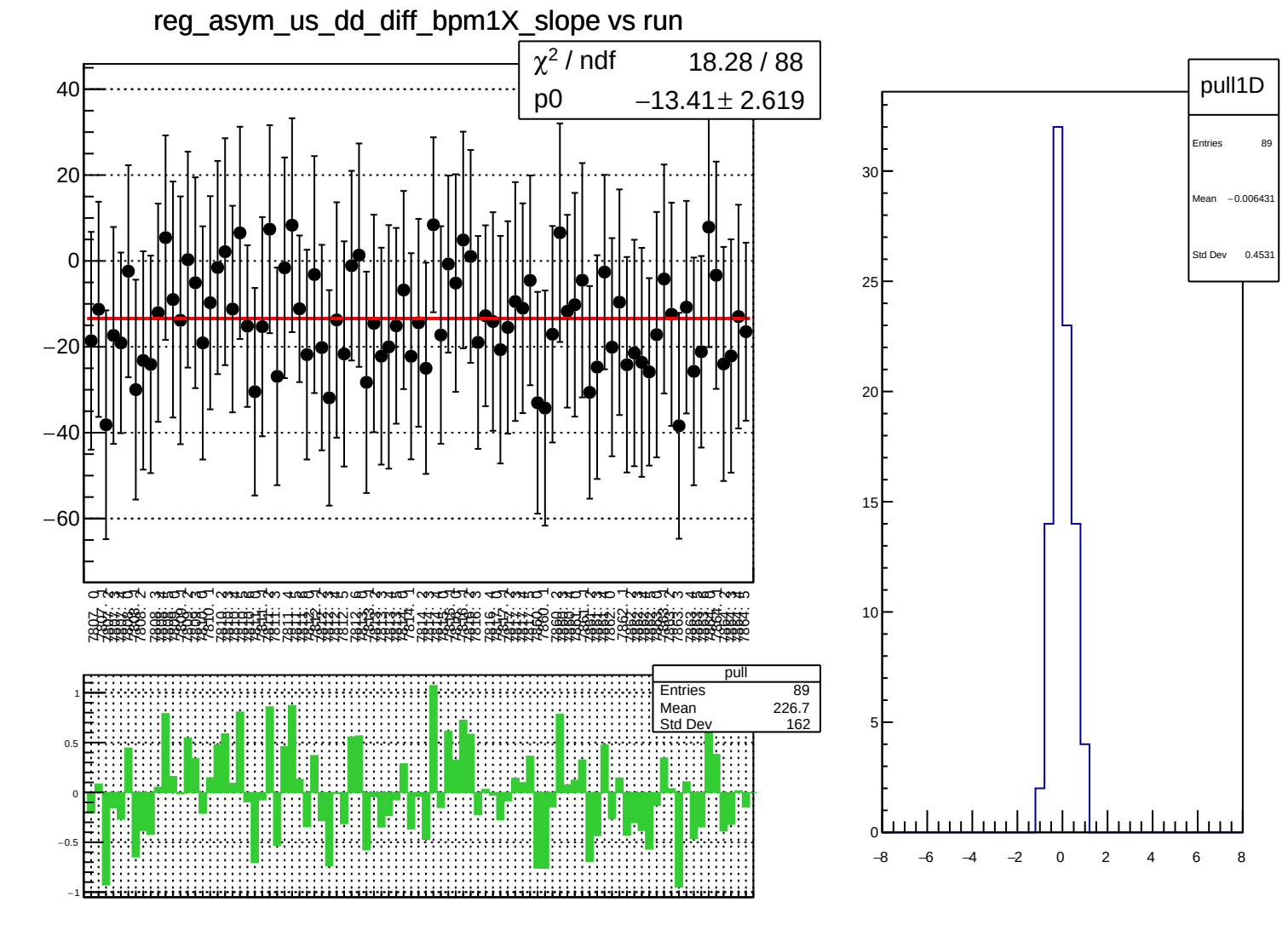

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.49 / 88
p0 36.12 ± 2.708
pull
Entries 89
Mean 330.7
Std Dev 282.2

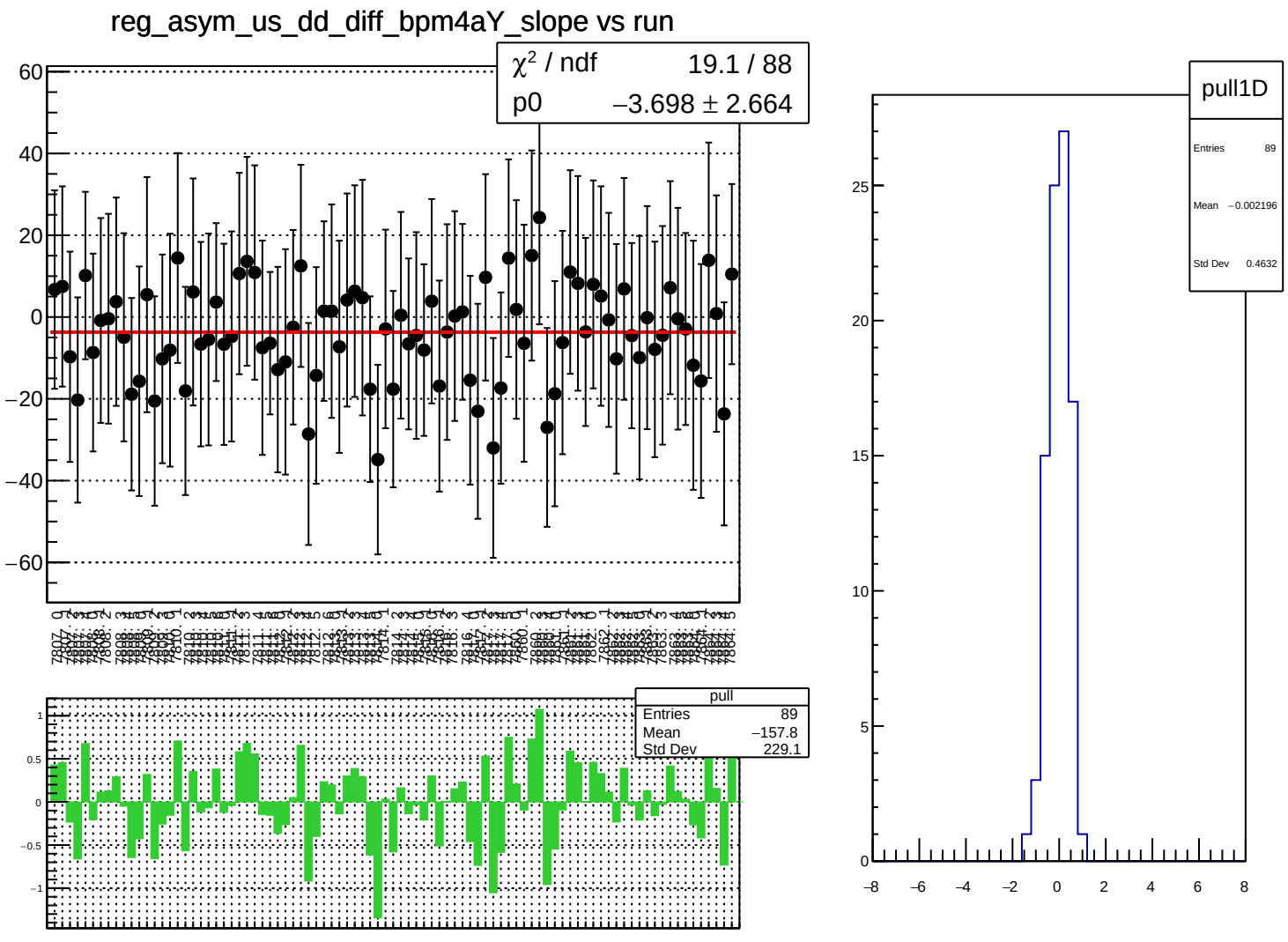

pull1D
Entries 89
Mean 0.007034
Std Dev 0.3893

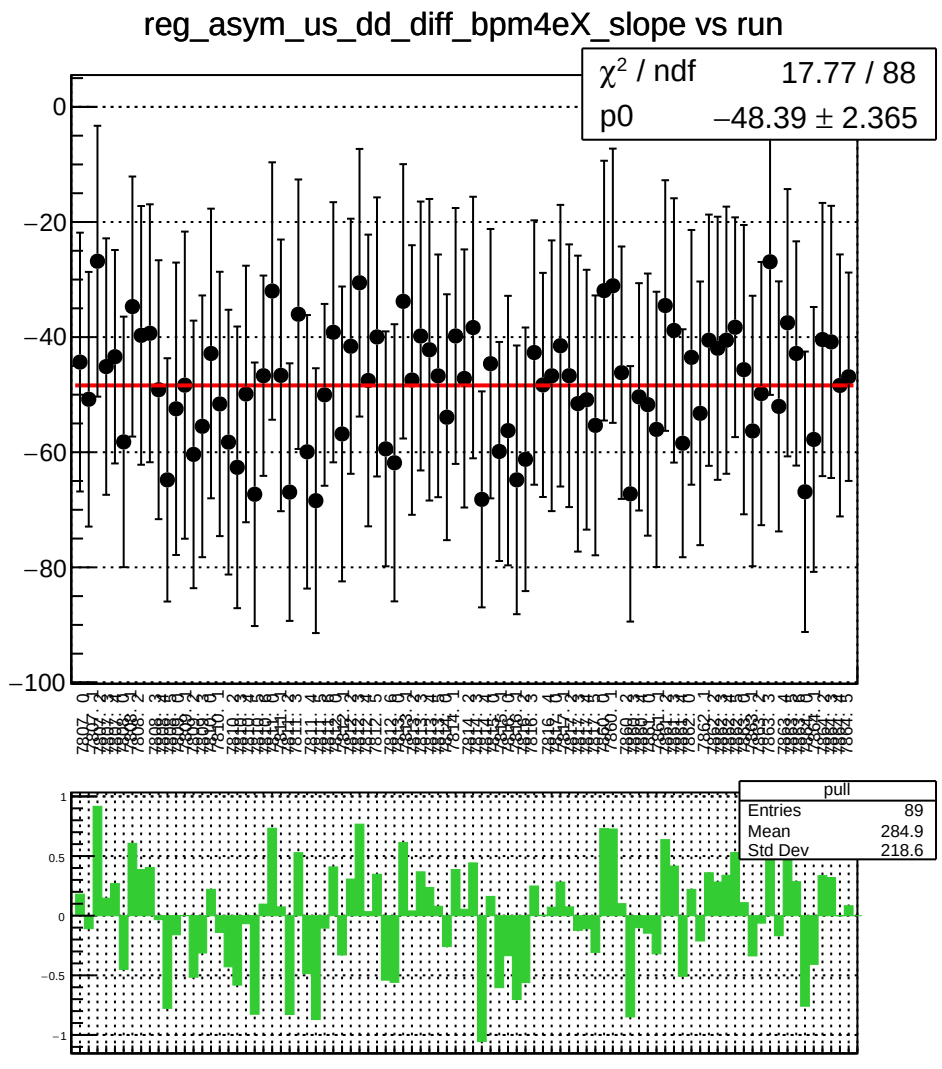

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.56 / 88
p0 1.058 ± 3.45
pull
Entries 89
Mean 163.3
Std Dev 110.8

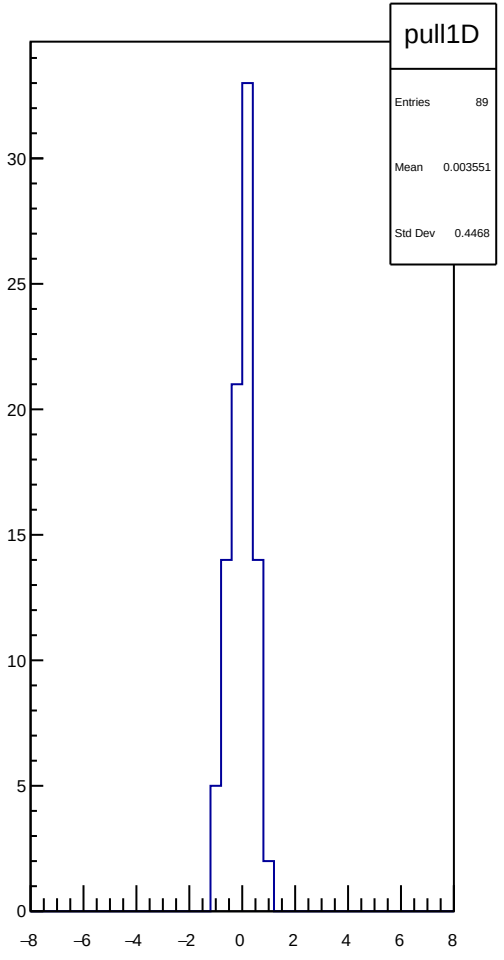

pull1D
Entries 89
Mean 0.0224
Std Dev 0.3897

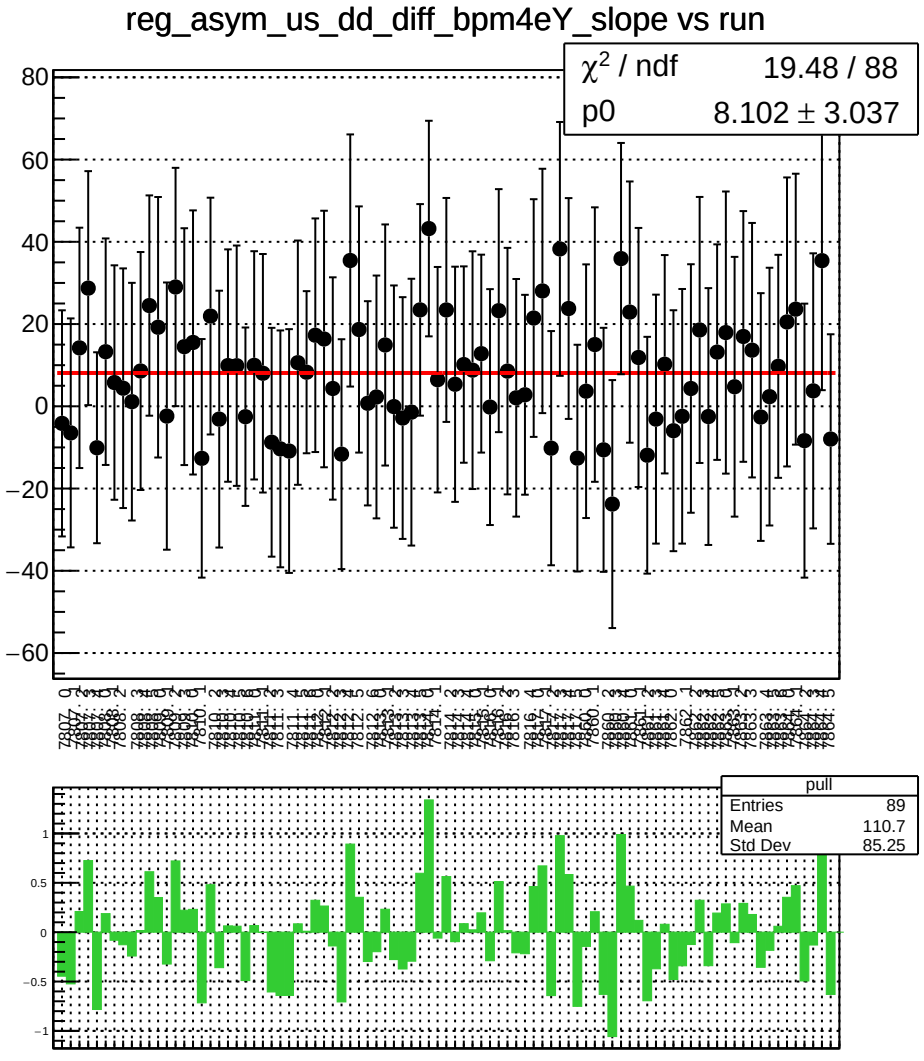

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 79.37 / 88
p0 −41.65 ± 0.09999
pull
Entries 89
Mean 212.8
Std Dev 164.5
pull1D
Entries 89
Mean −0.1136
Std Dev 0.9375

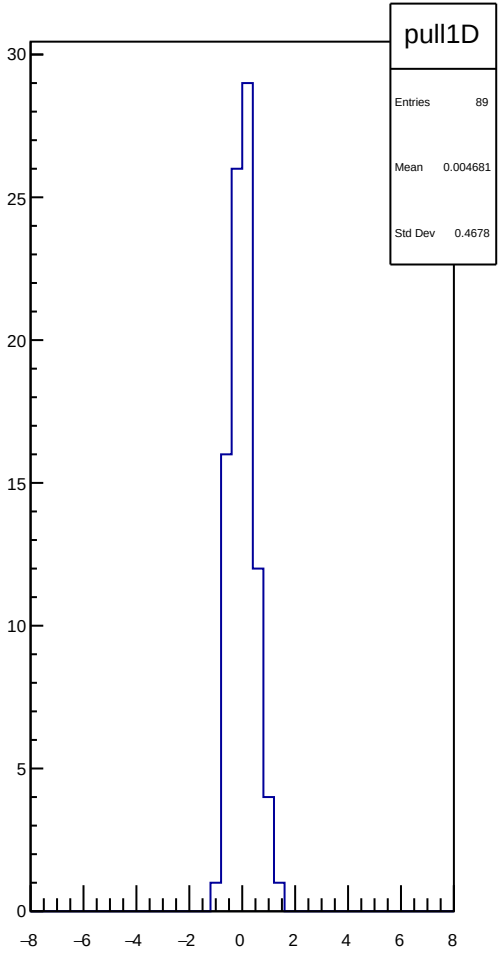

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 18.28 / 88
p0 −13.41 ± 2.619
pull
Entries 89
Mean 226.7
Std Dev 162
pull1D
Entries 89
Mean −0.006431
Std Dev 0.4531

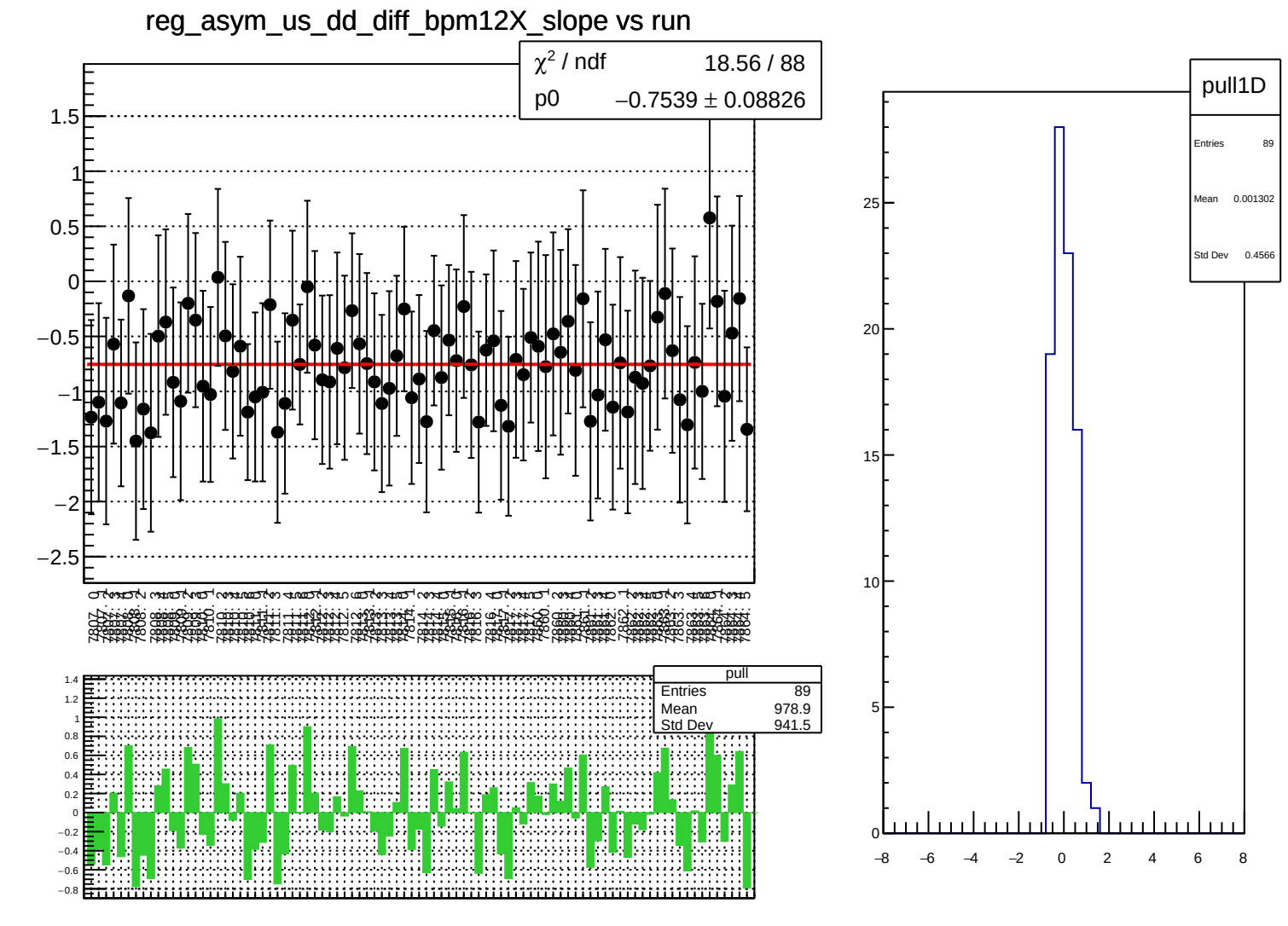

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.1 / 88
p0 −3.698 ± 2.664
pull
Entries 89
Mean −157.8
Std Dev 229.1
pull1D
Entries 89
Mean −0.002196
Std Dev 0.4632

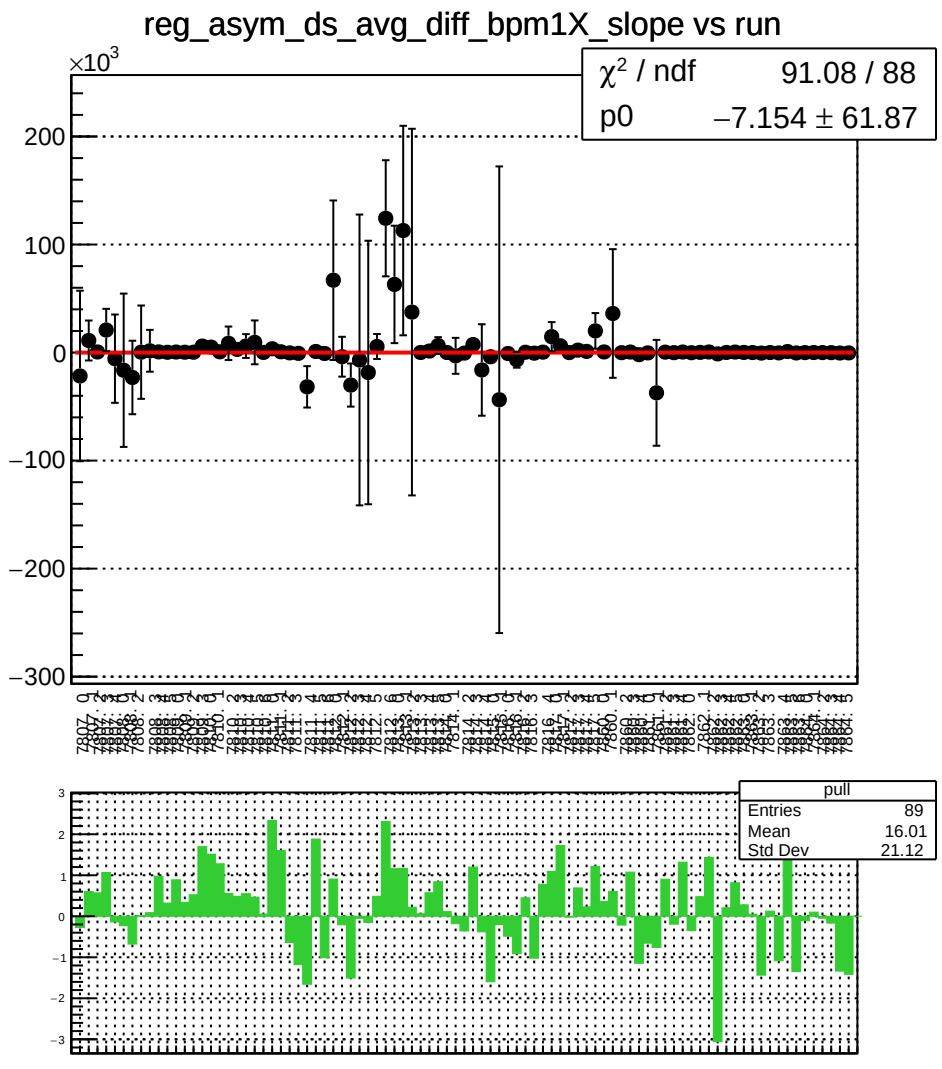

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.77 / 88
p0 −48.39 ± 2.365
pull
Entries 89
Mean 284.9
Std Dev 218.6

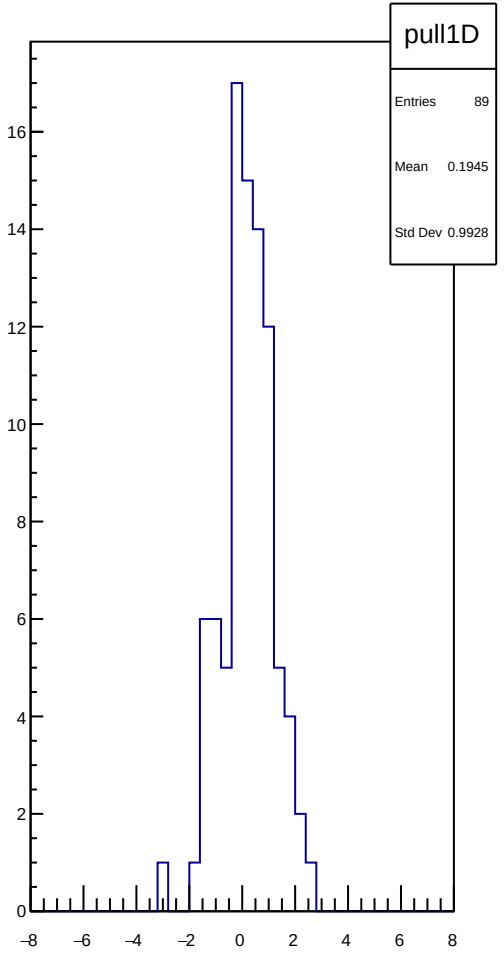

pull1D
Entries 89
Mean 0.003551
Std Dev 0.4468

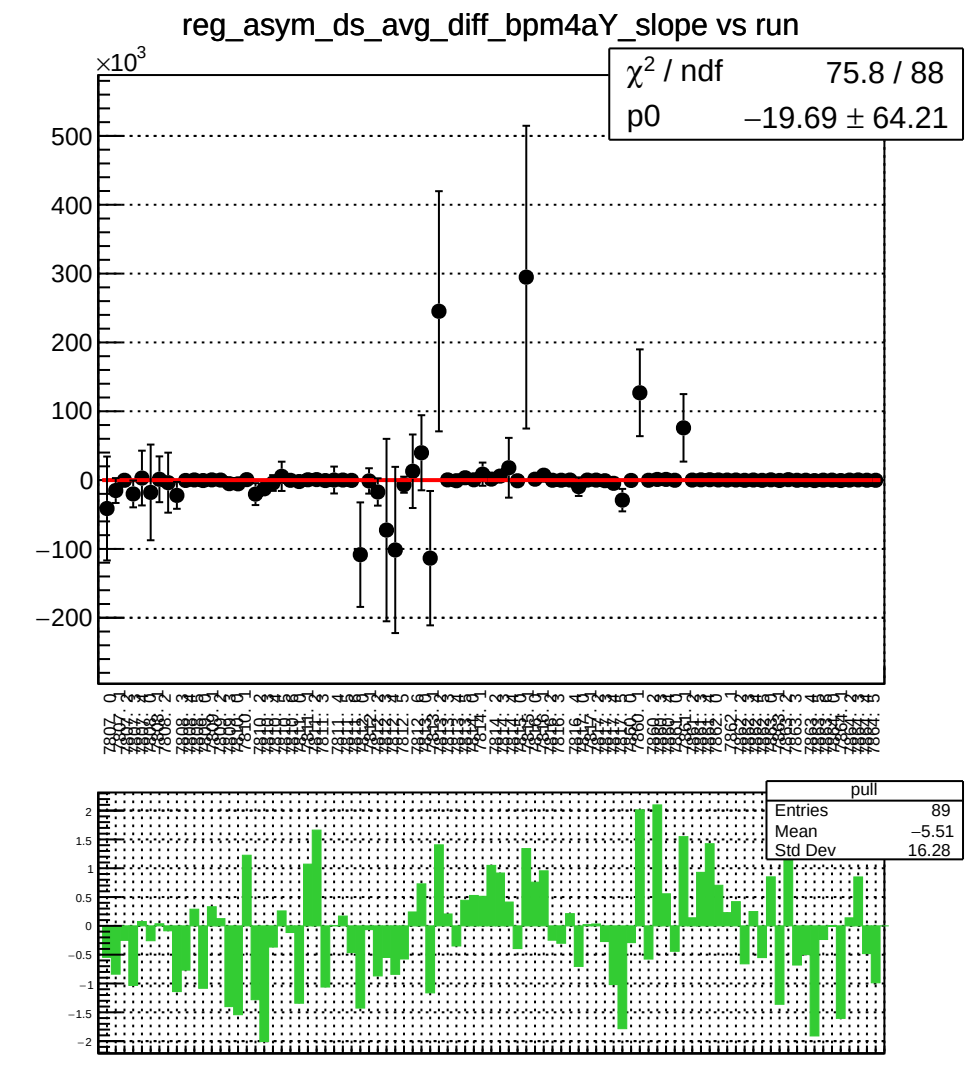

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.48 / 88
p0 8.102 ± 3.037
pull
Entries 89
Mean 110.7
Std Dev 85.25

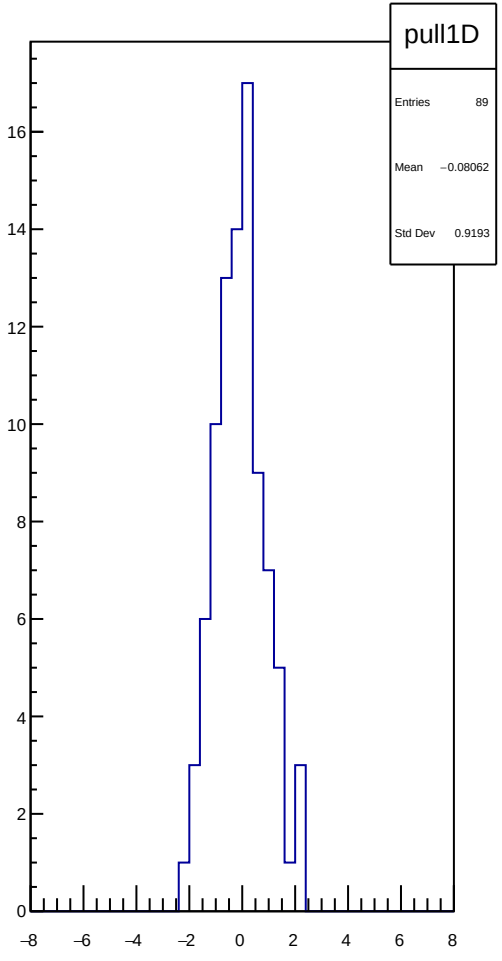

pull1D
Entries 89
Mean 0.004681
Std Dev 0.4678

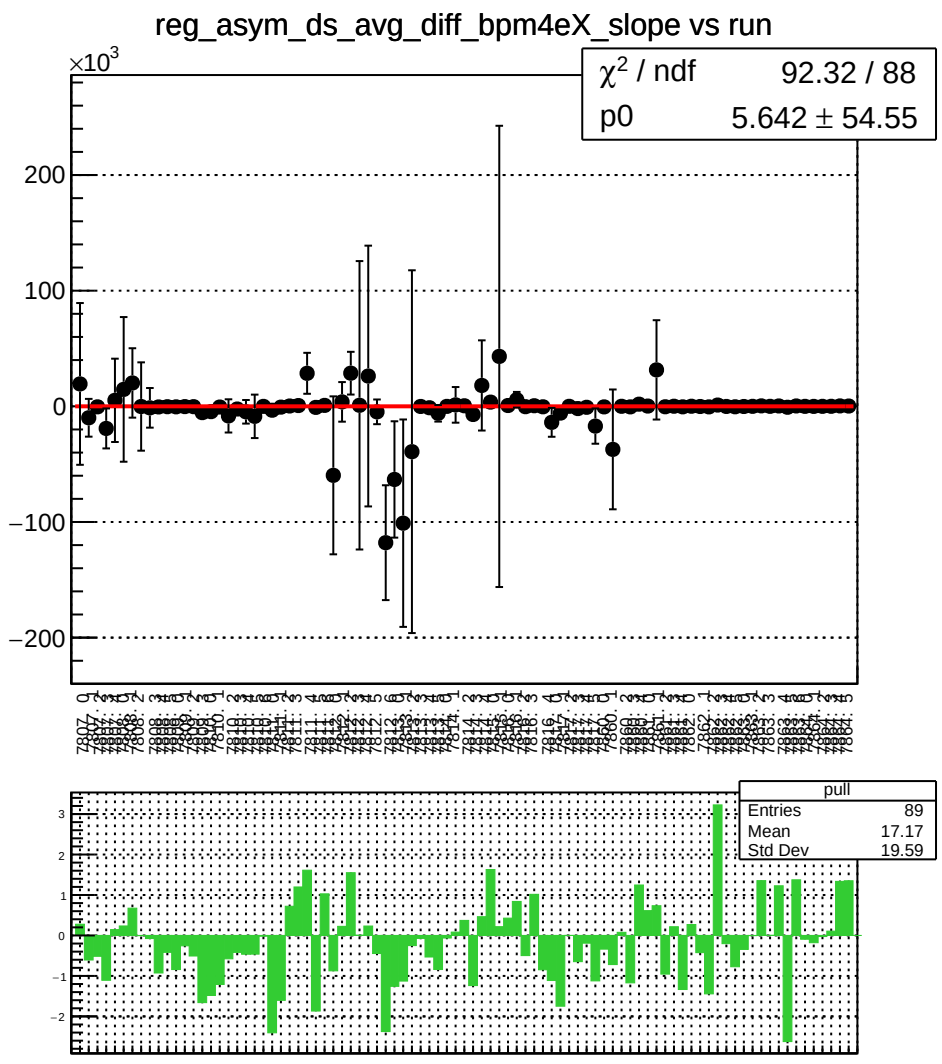

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 18.56 / 88
p0 −0.7539 ± 0.08826
pull
Entries 89
Mean 978.9
Std Dev 941.5
pull1D
Entries 89
Mean 0.001302
Std Dev 0.4566

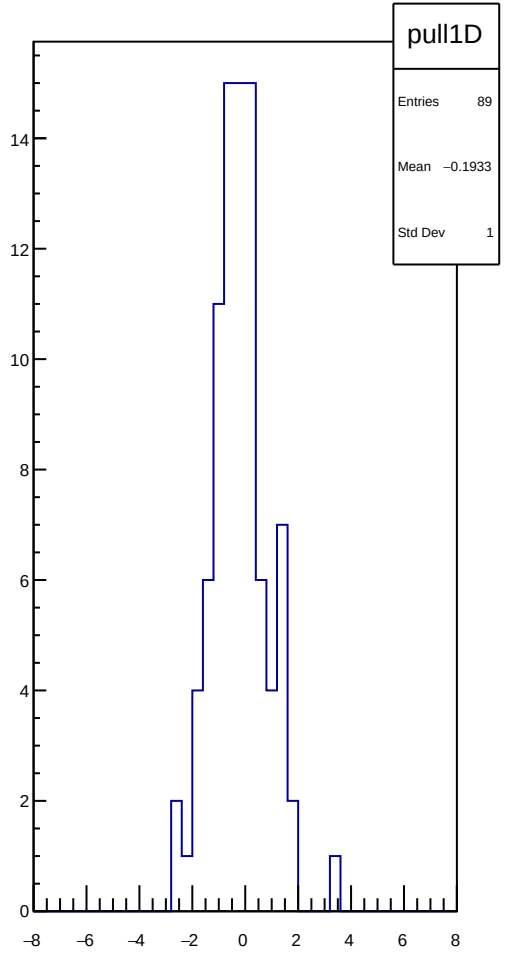

reg_asym_ds_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 91.08 / 88
p0 −7.154 ± 61.87
200
100
0
−100
−200
−300
pull
Entries 89
Mean 16.01
Std Dev 21.12
3
2
1
0
−1
−2
−3

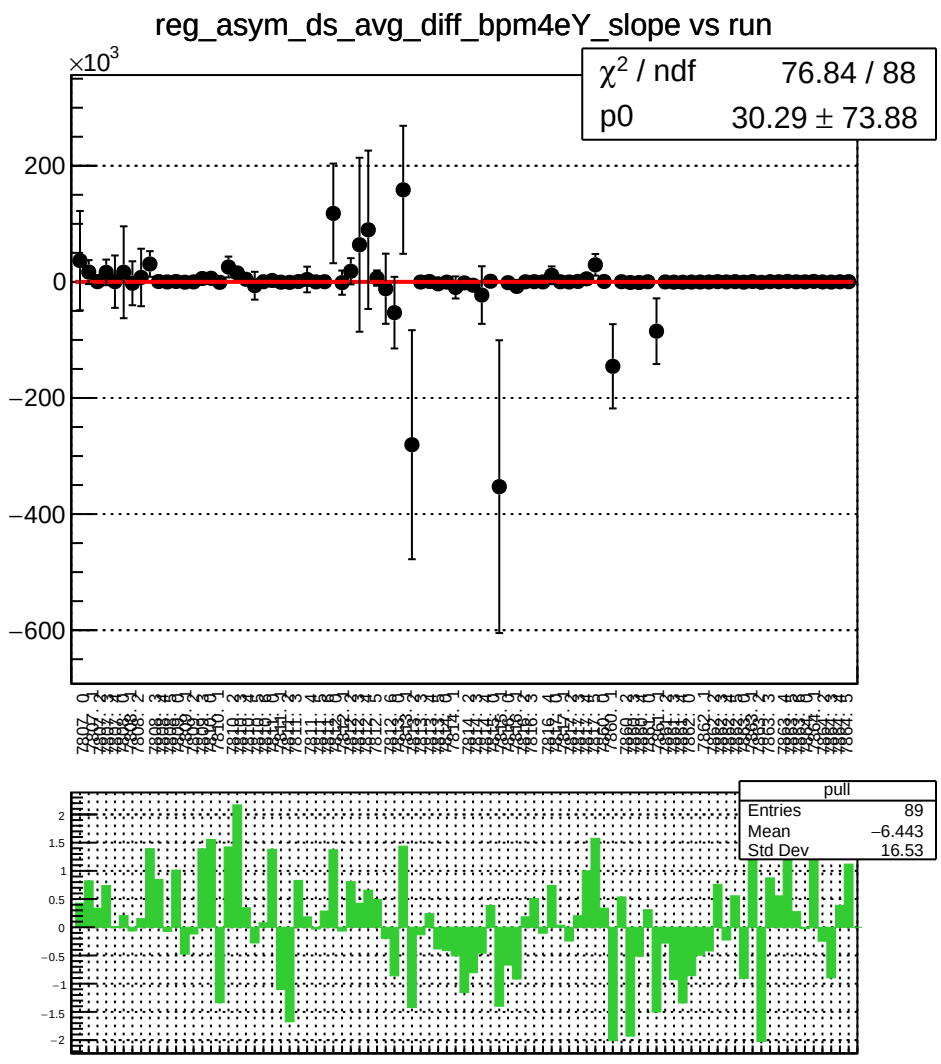

pull1D
Entries 89
Mean 0.1945
Std Dev 0.9928
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

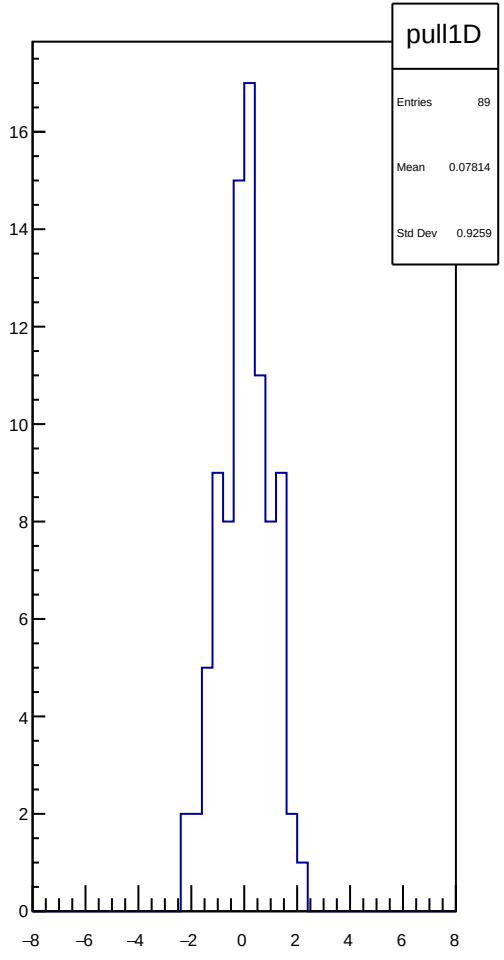

reg_asym_ds_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 75.8 / 88
p0 −19.69 ± 64.21
pull
Entries 89
Mean −5.51
Std Dev 16.28

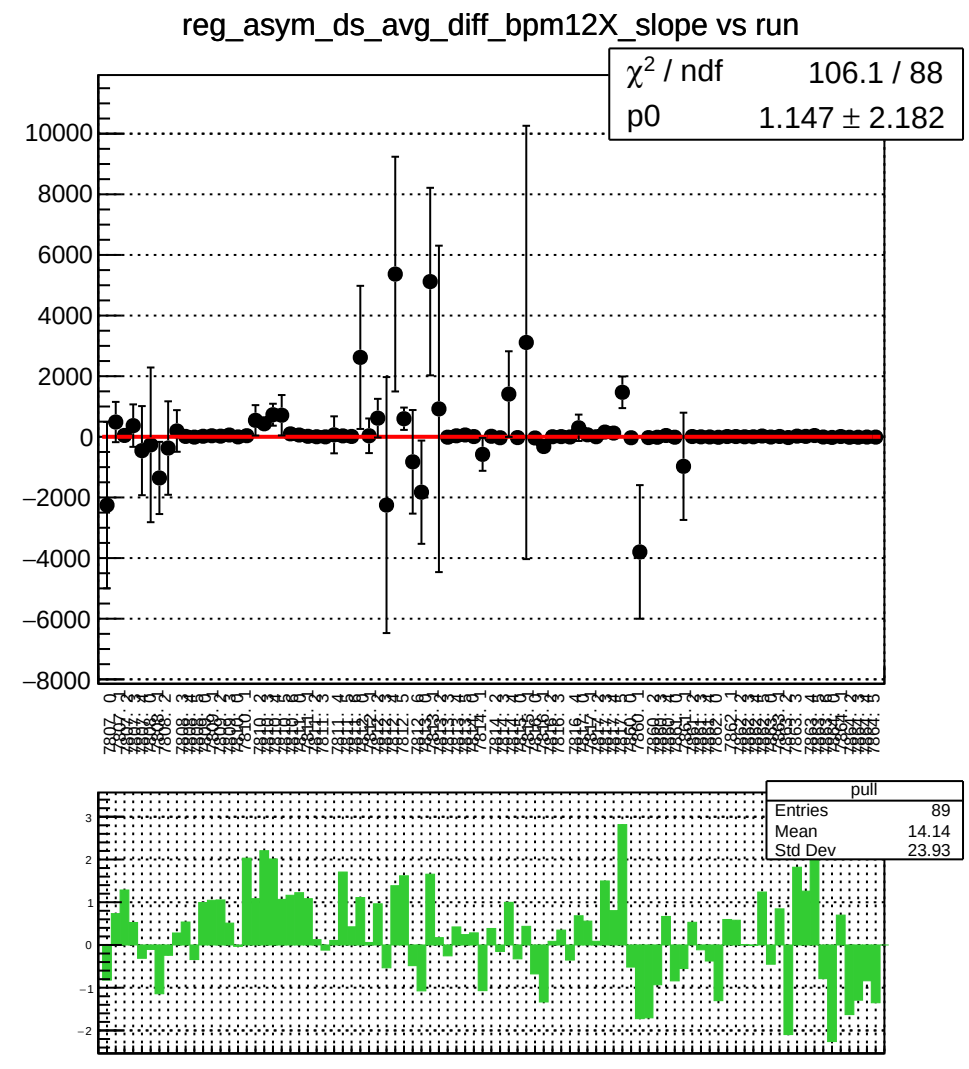

pull1D
Entries 89
Mean −0.08062
Std Dev 0.9193

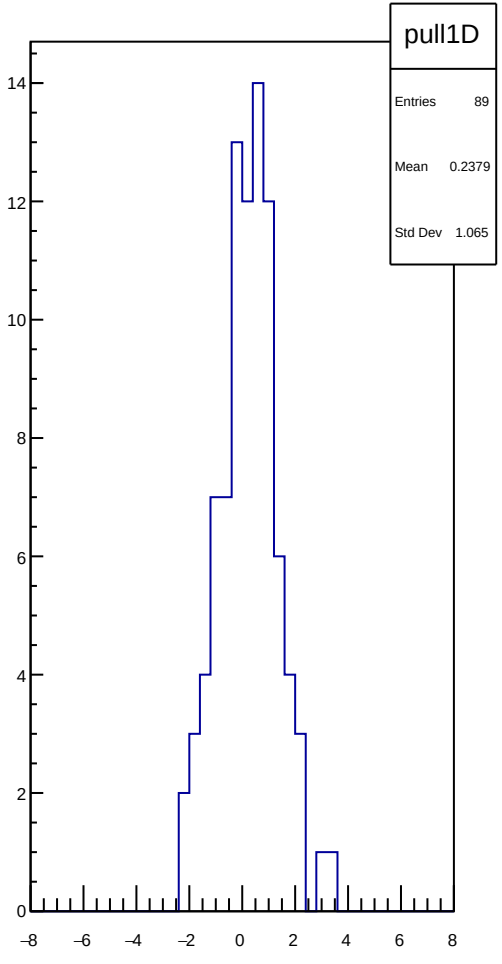

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 92.32 / 88
p0 5.642 ± 54.55
×10³
200
100
0
−100
−200
pull
Entries 89
Mean 17.17
Std Dev 19.59
3
2
1
0
−1
−2

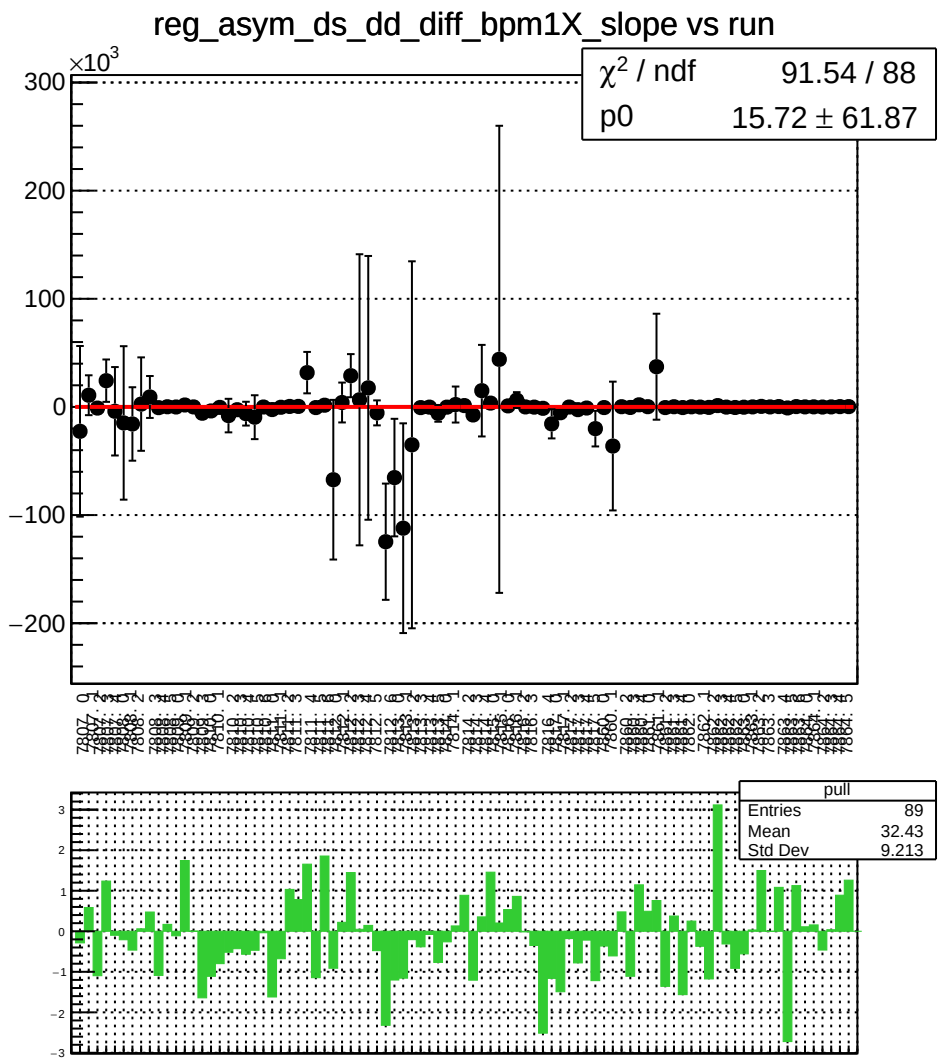

pull1D
Entries 89
Mean −0.1933
Std Dev 1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

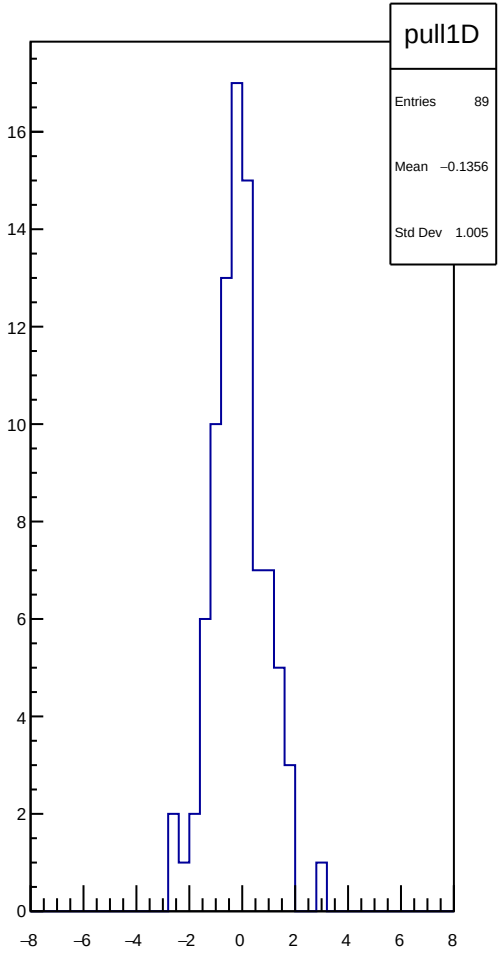

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 76.84 / 88
p0 30.29 ± 73.88
×10³
200
0
−200
−400
−600
pull
Entries 89
Mean −6.443
Std Dev 16.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

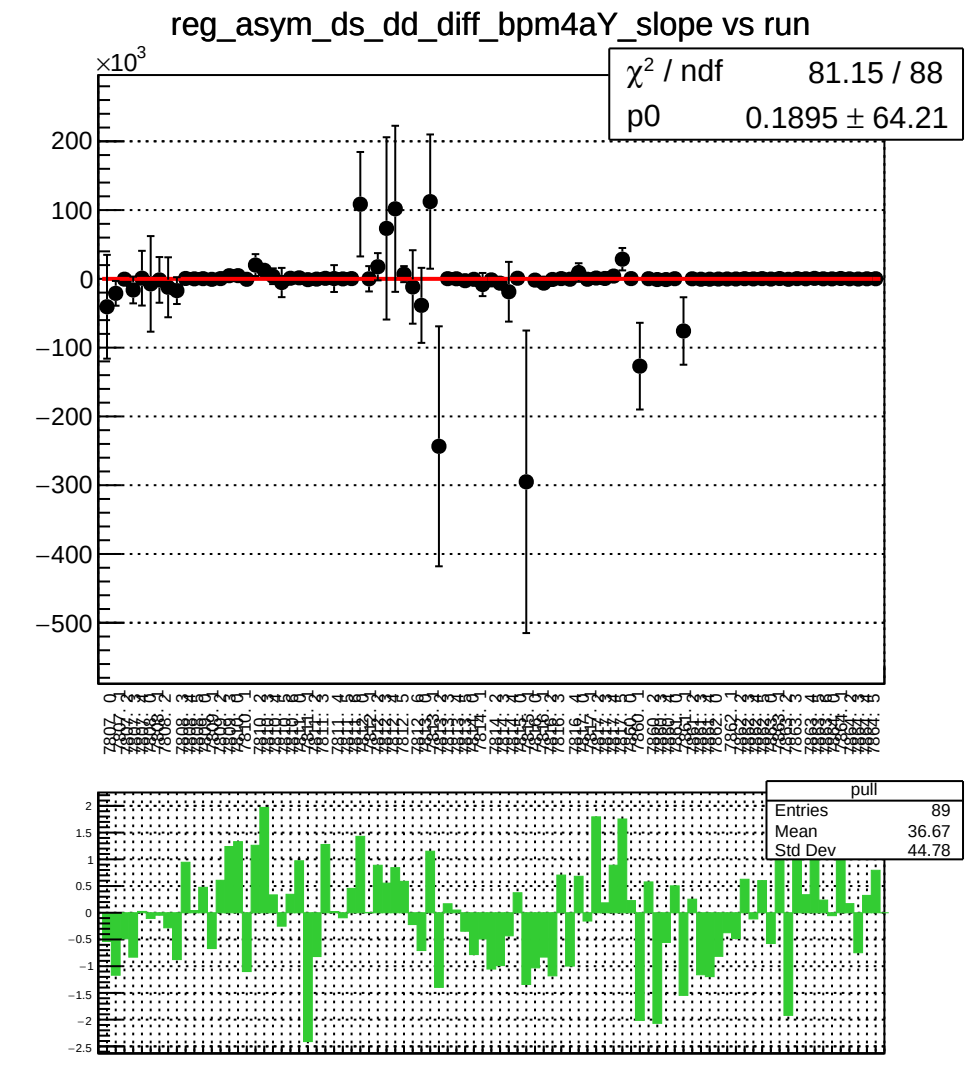

pull1D
Entries 89
Mean 0.07814
Std Dev 0.9259
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

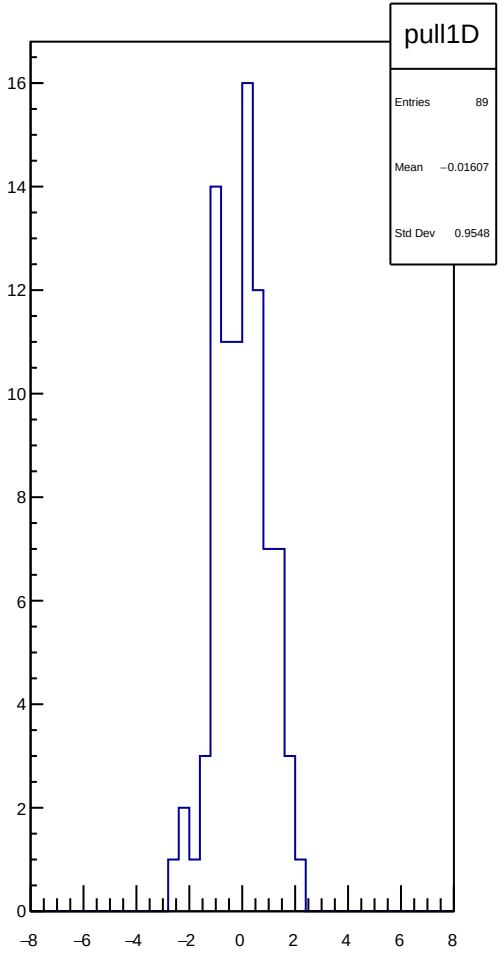

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 106.1 / 88
p0 1.147 ± 2.182
pull
Entries 89
Mean 14.14
Std Dev 23.93

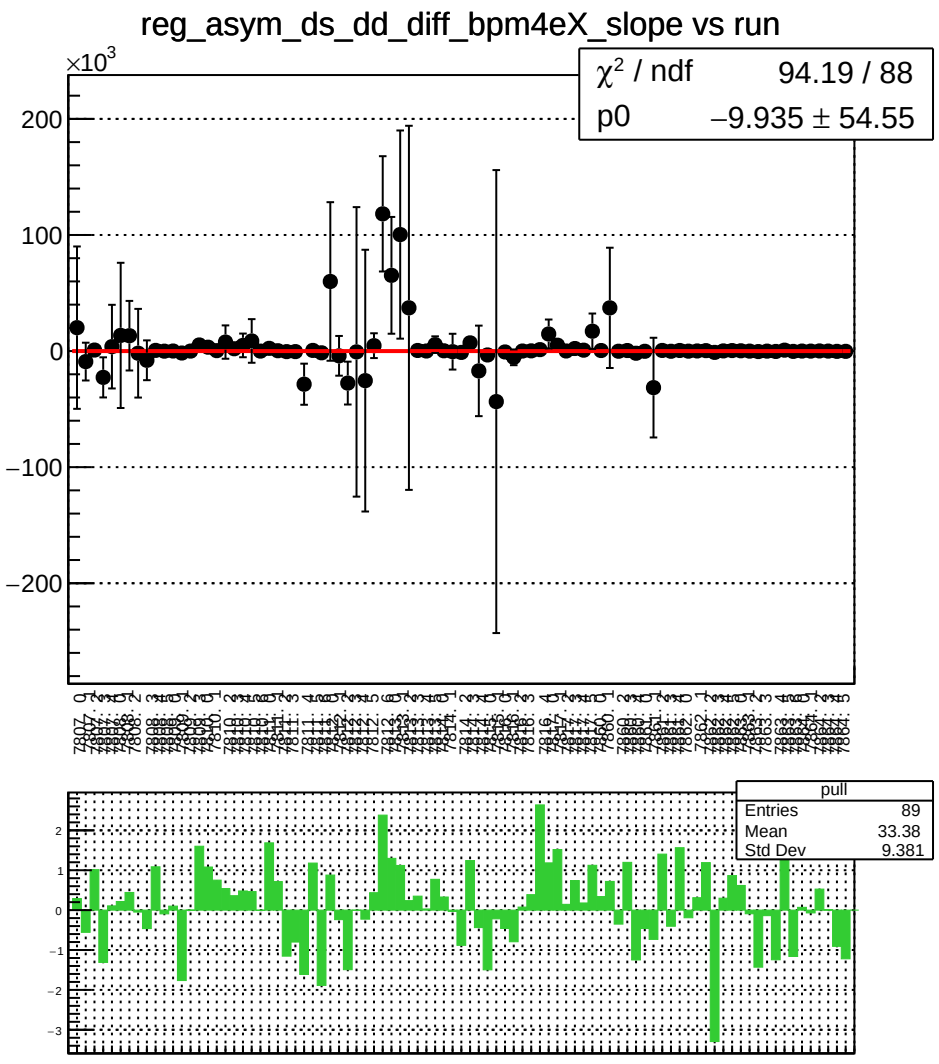

pull1D
Entries 89
Mean 0.2379
Std Dev 1.065

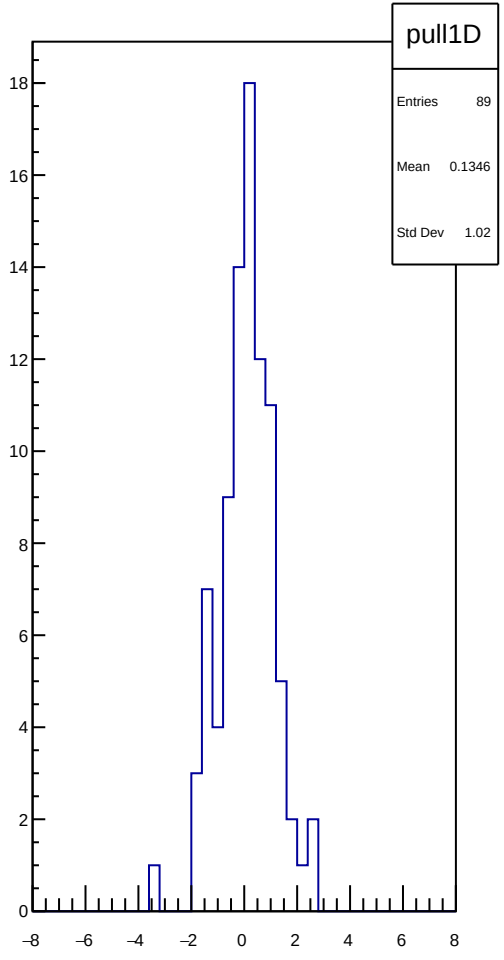

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 91.54 / 88
p0 15.72 ± 61.87
×10³
pull
Entries 89
Mean 32.43
Std Dev 9.213

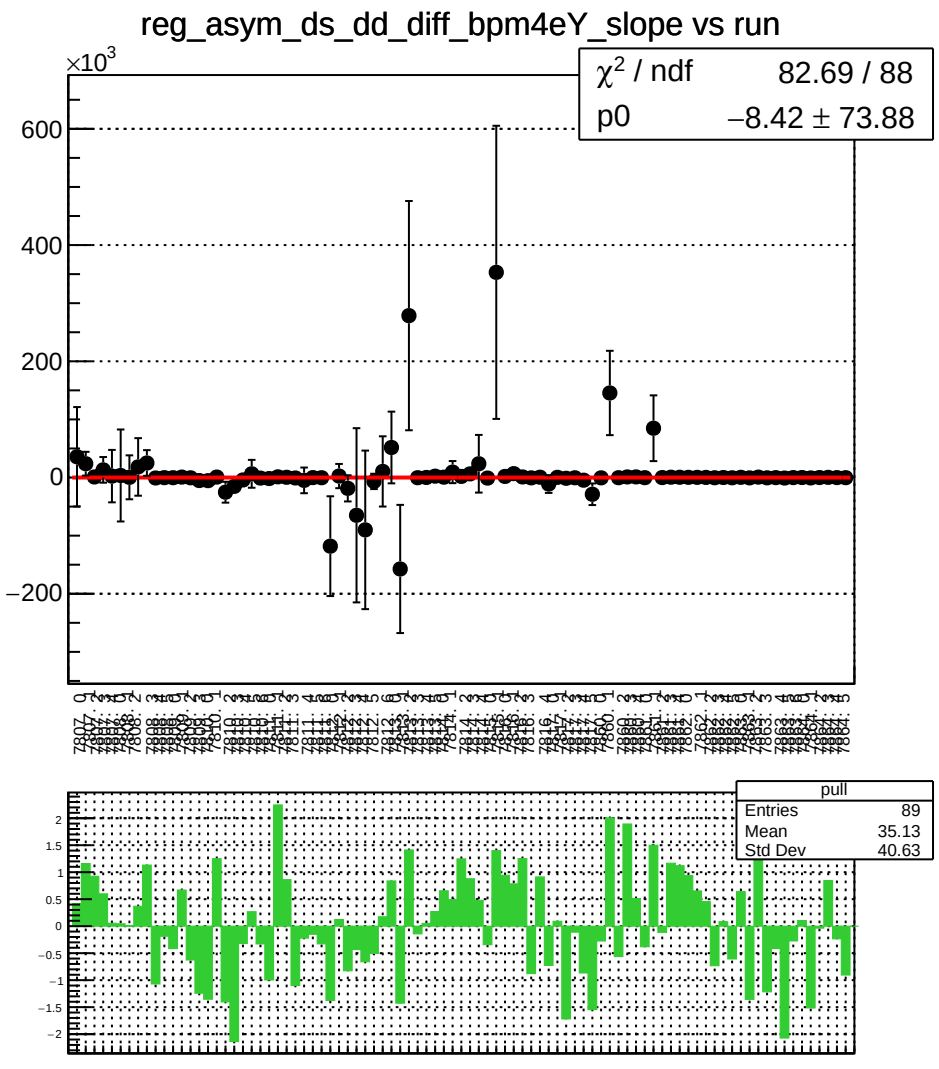

pull1D
Entries 89
Mean −0.1356
Std Dev 1.005

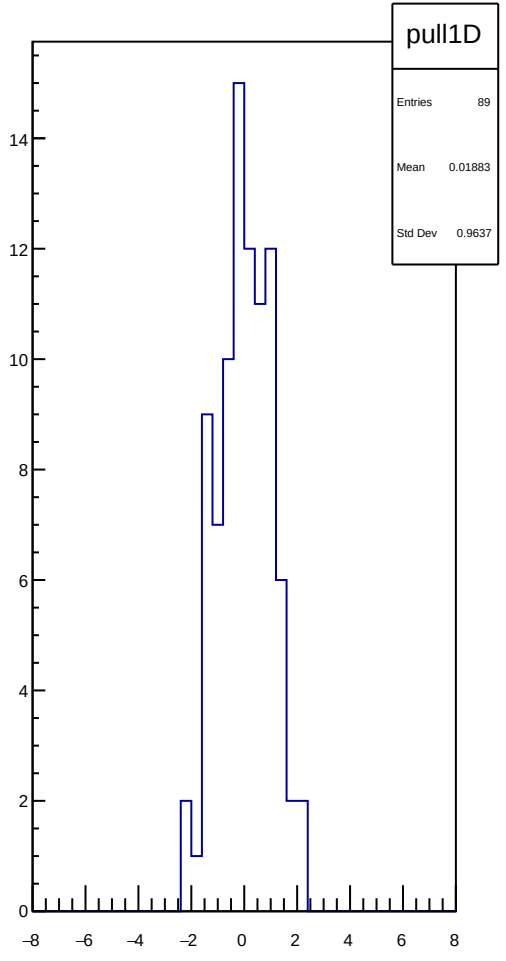

reg_asym_ds_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 81.15 / 88
p0 0.1895 ± 64.21
200
100
0
−100
−200
−300
−400
−500
pull
Entries 89
Mean 36.67
Std Dev 44.78
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

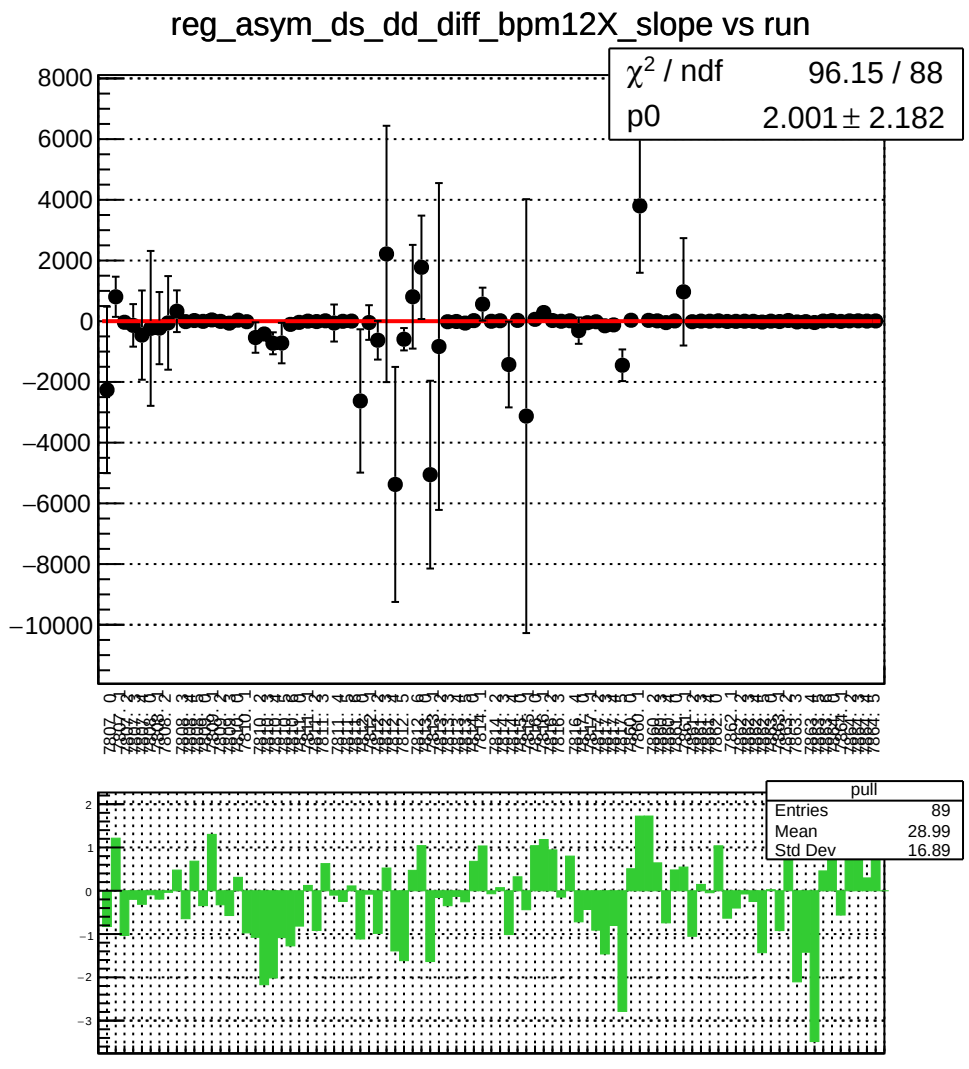

pull1D
Entries 89
Mean −0.01607
Std Dev 0.9548
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

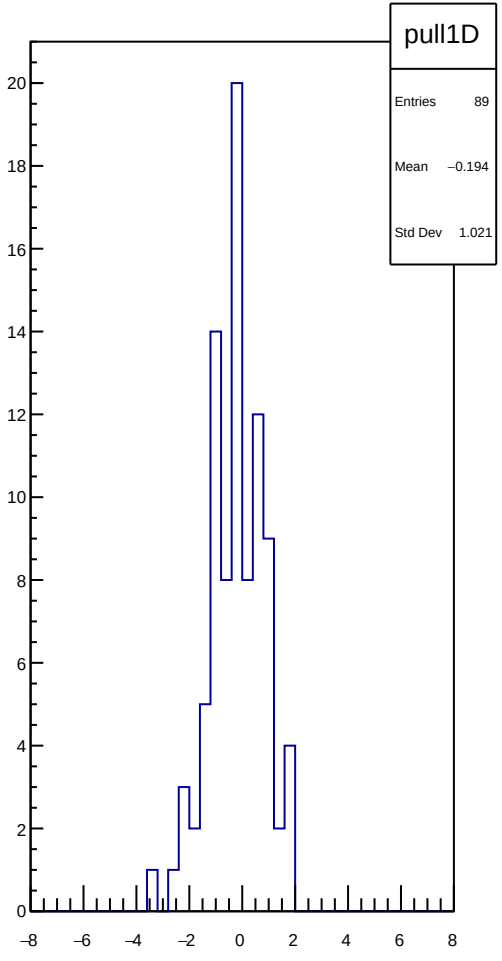

reg_asym_ds_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 94.19 / 88
p0 −9.935 ± 54.55
200
100
0
−100
−200
pull
Entries 89
Mean 33.38
Std Dev 9.381
2
1
0
−1
−2
−3

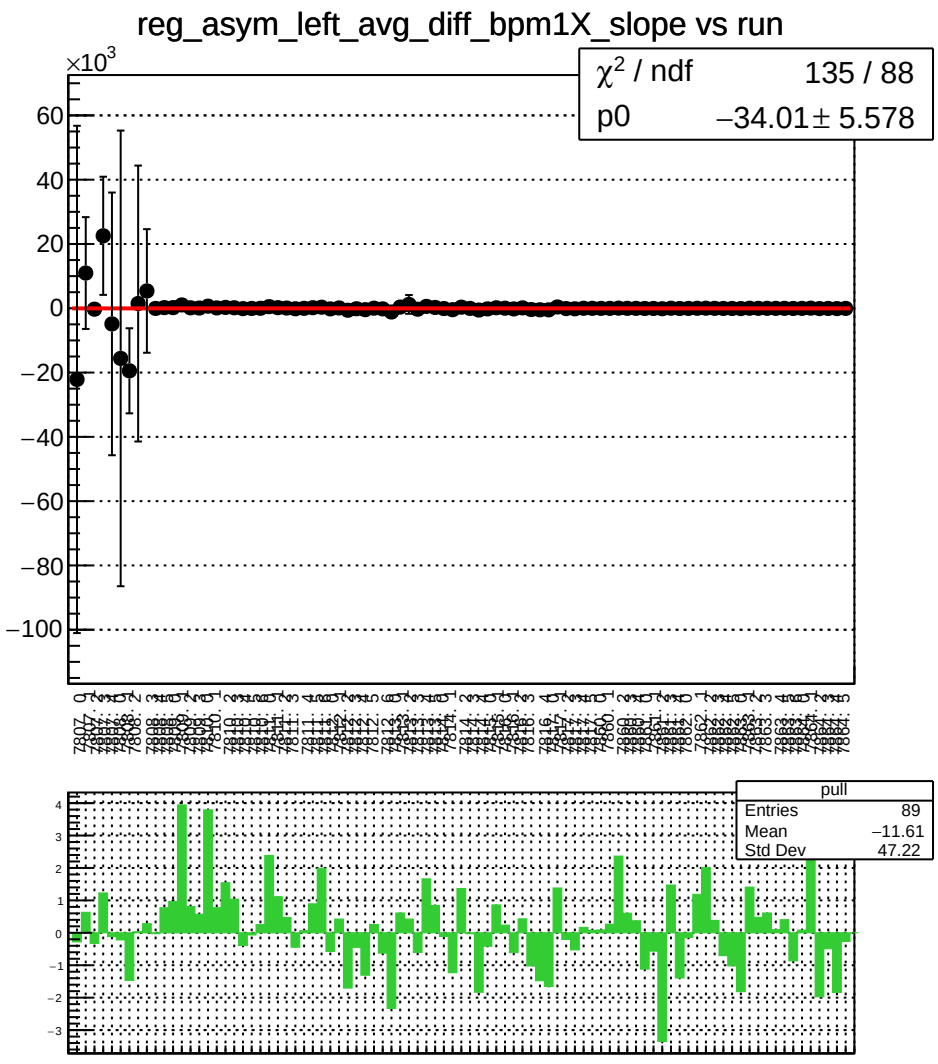

pull1D
Entries 89
Mean 0.1346
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

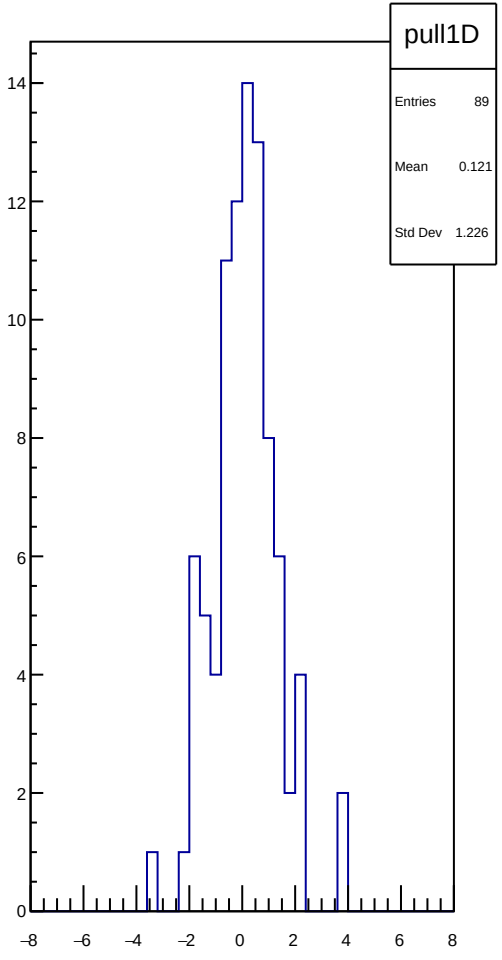

reg_asym_ds_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 82.69 / 88
p0 −8.42 ± 73.88
600
400
200
0
−200
pull
Entries 89
Mean 35.13
Std Dev 40.63
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

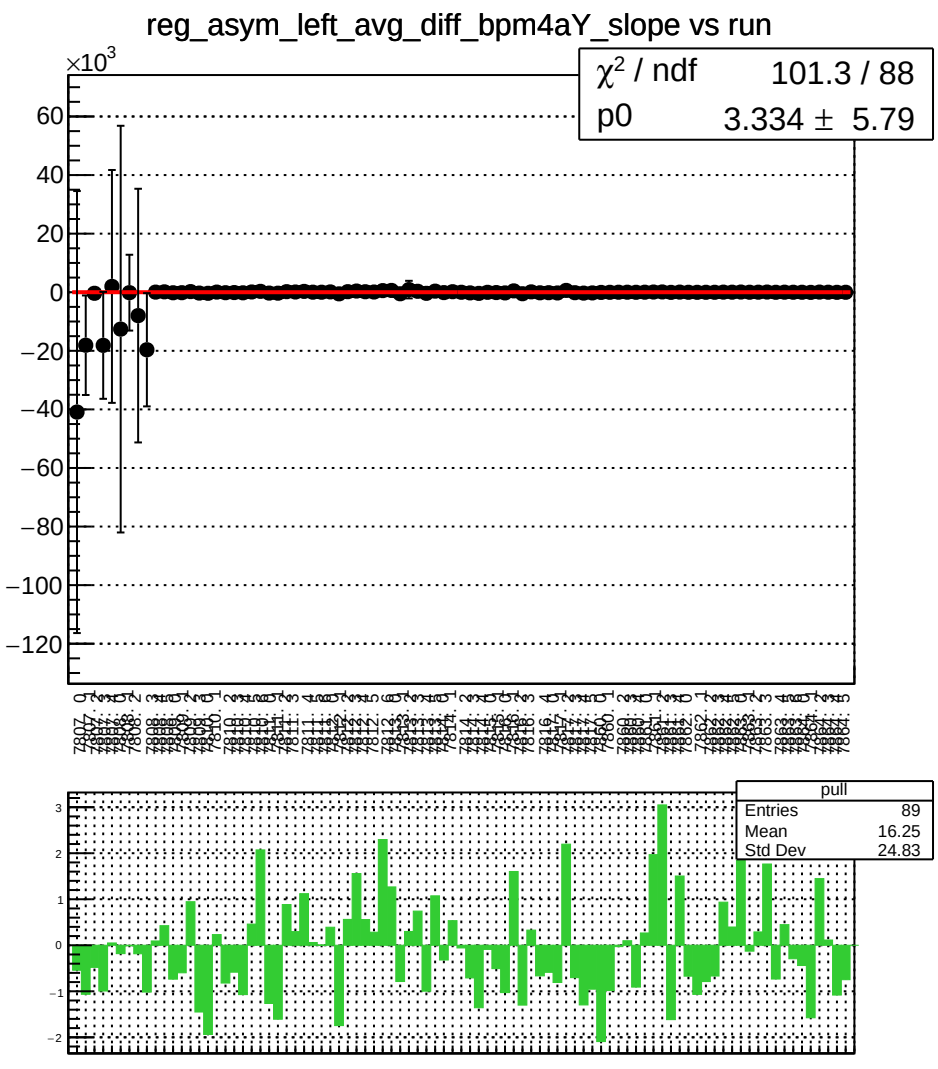

pull1D
Entries 89
Mean 0.01883
Std Dev 0.9637
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

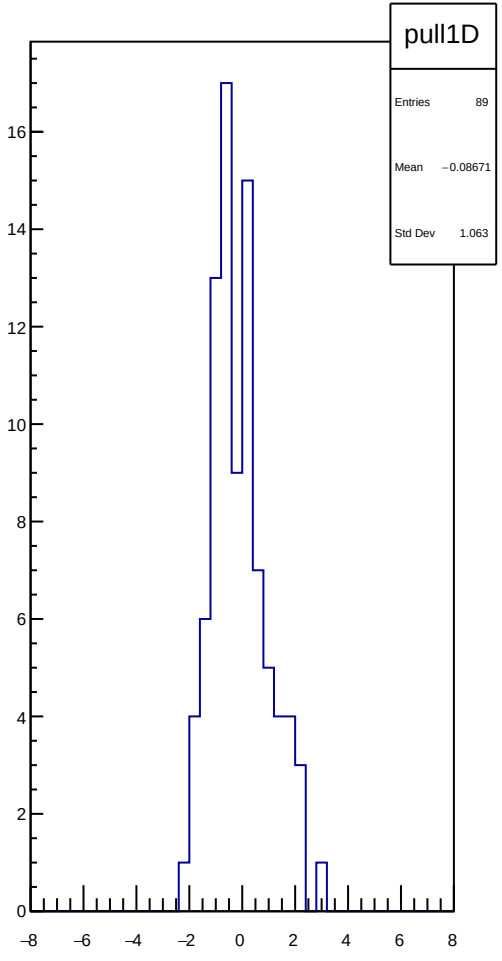

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 96.15 / 88
p0 2.001 ± 2.182
pull
Entries 89
Mean 28.99
Std Dev 16.89

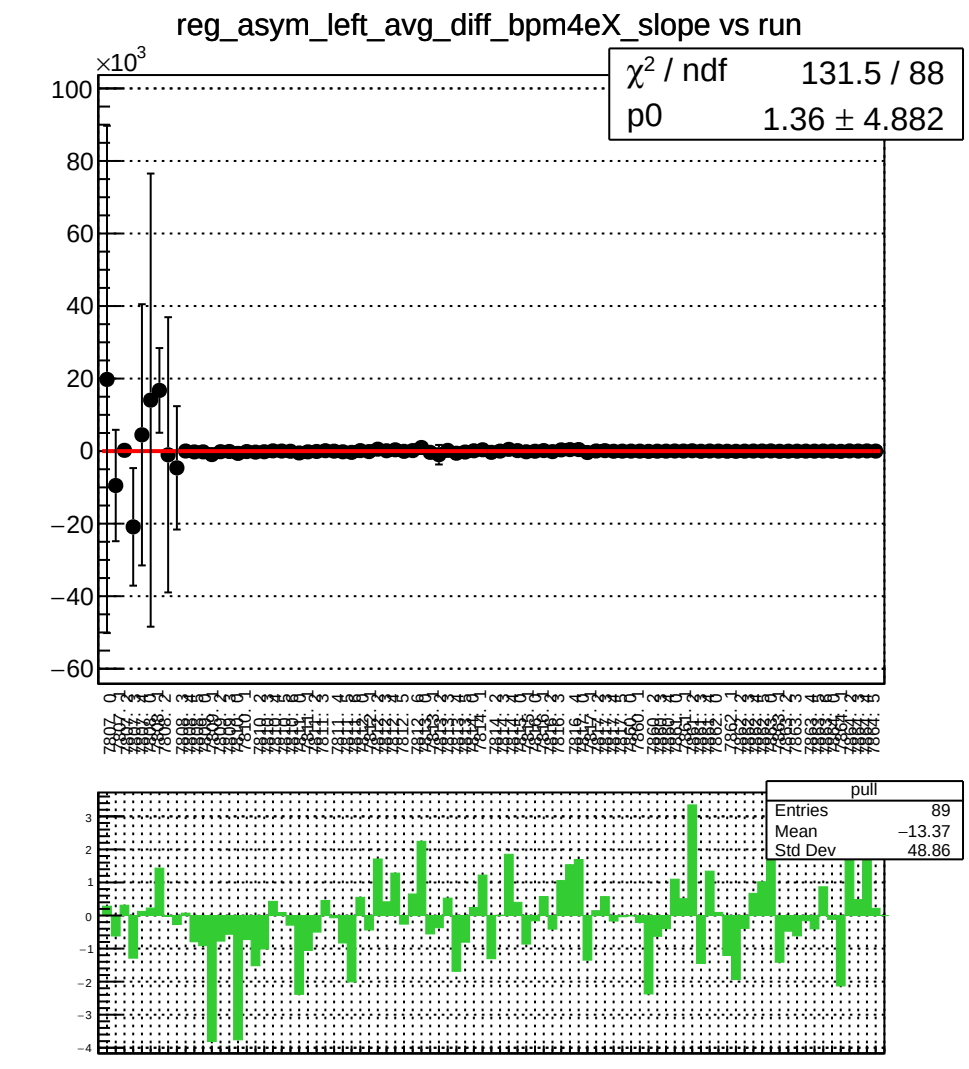

pull1D
Entries 89
Mean −0.194
Std Dev 1.021

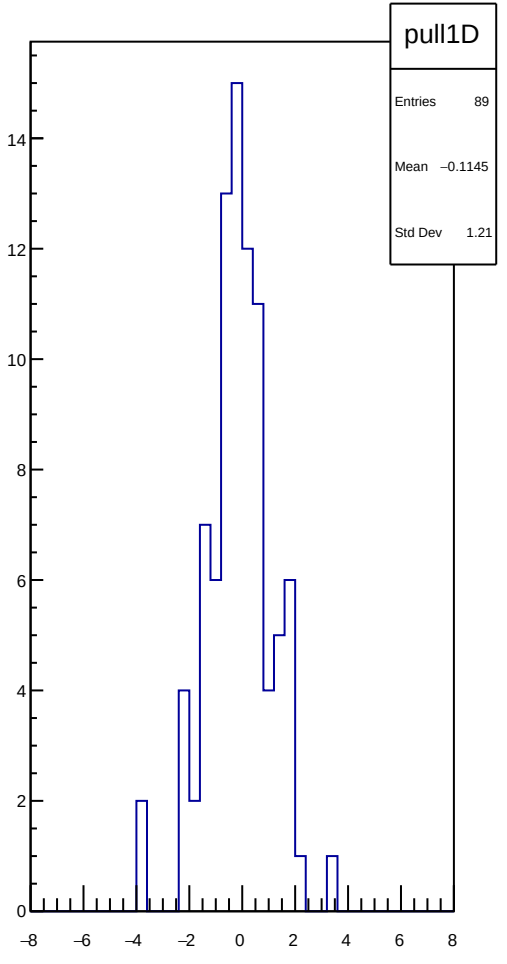

reg_asym_left_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 135 / 88
p0 −34.01 ± 5.578
pull
Entries 89
Mean −11.61
Std Dev 47.22

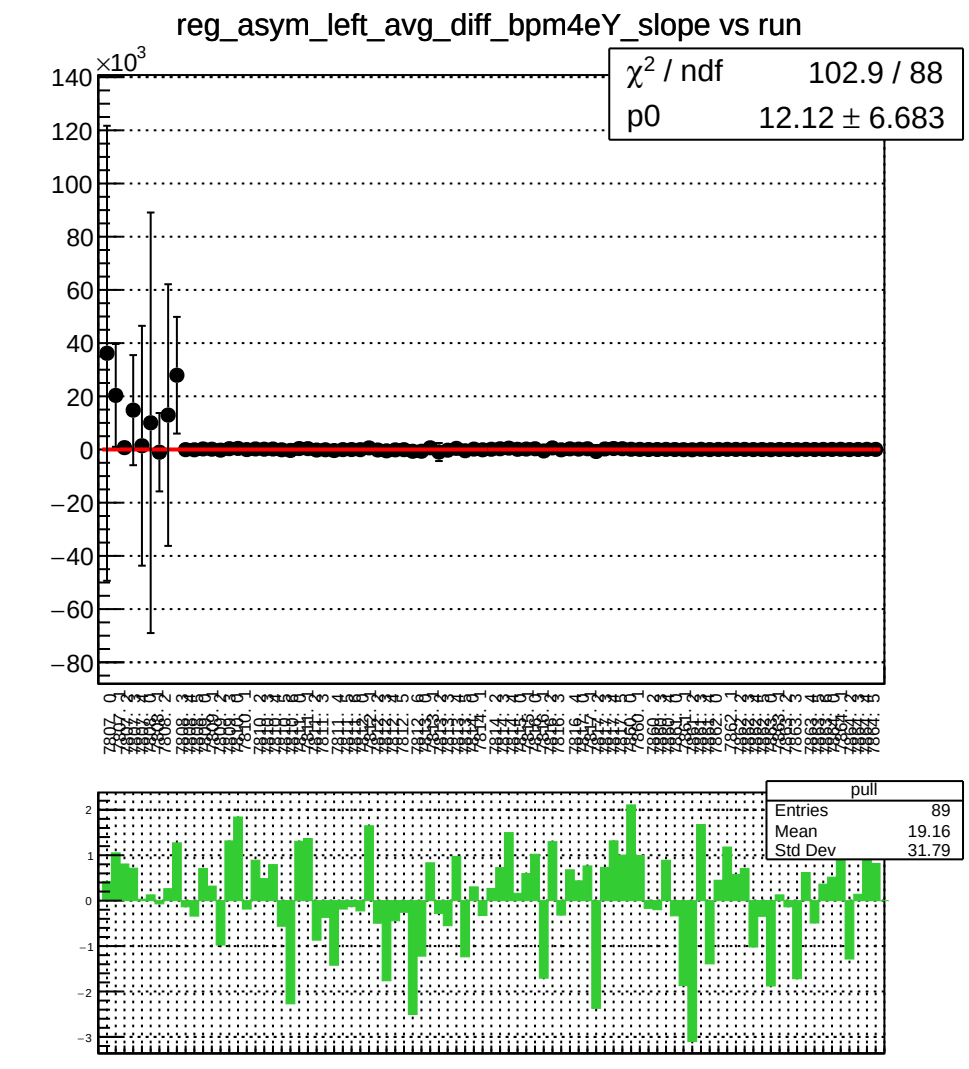

pull1D
Entries 89
Mean 0.121
Std Dev 1.226

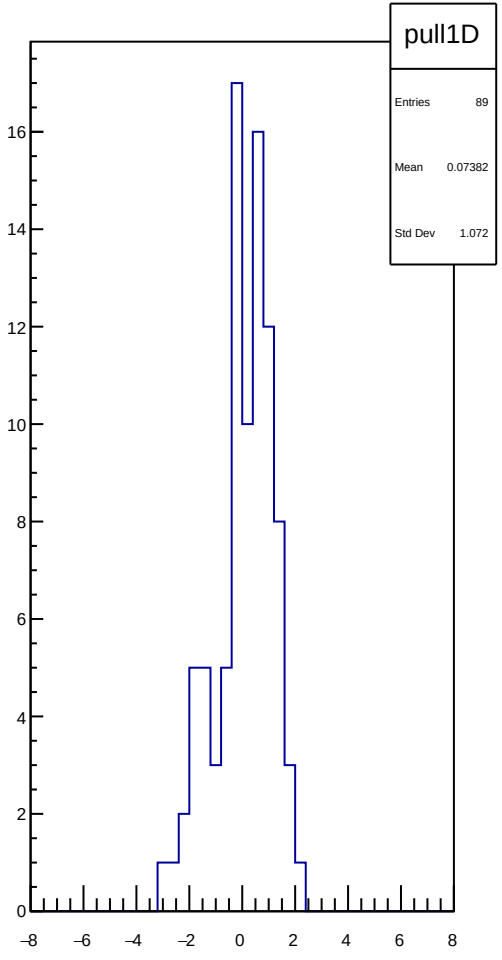

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 101.3 / 88
p0 3.334 ± 5.79
×10³
pull
Entries 89
Mean 16.25
Std Dev 24.83

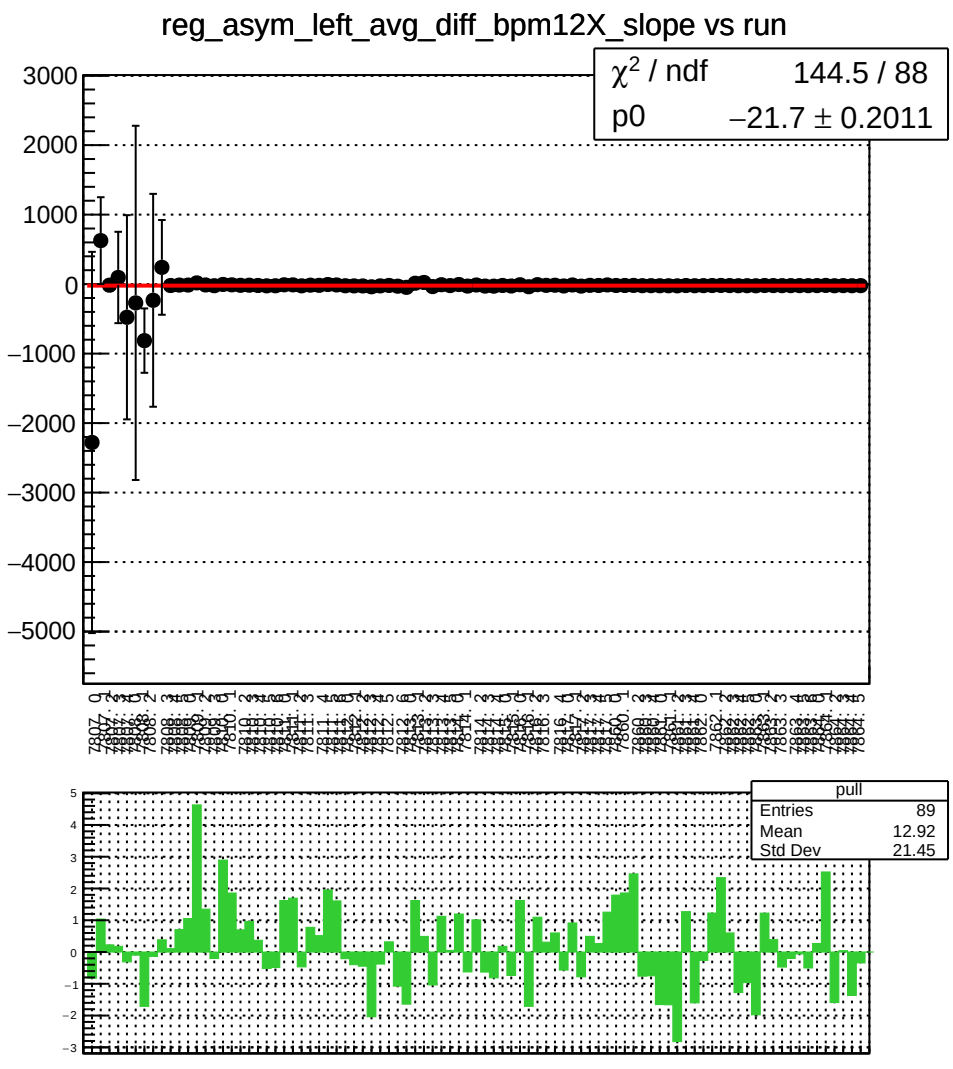

pull1D
Entries 89
Mean −0.08671
Std Dev 1.063

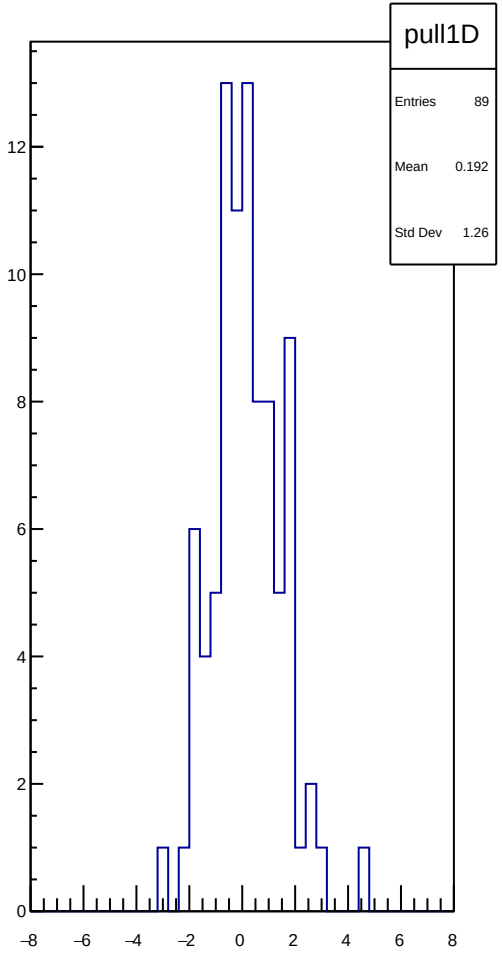

reg_asym_left_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 131.5 / 88
p0 1.36 ± 4.882
pull
Entries 89
Mean −13.37
Std Dev 48.86

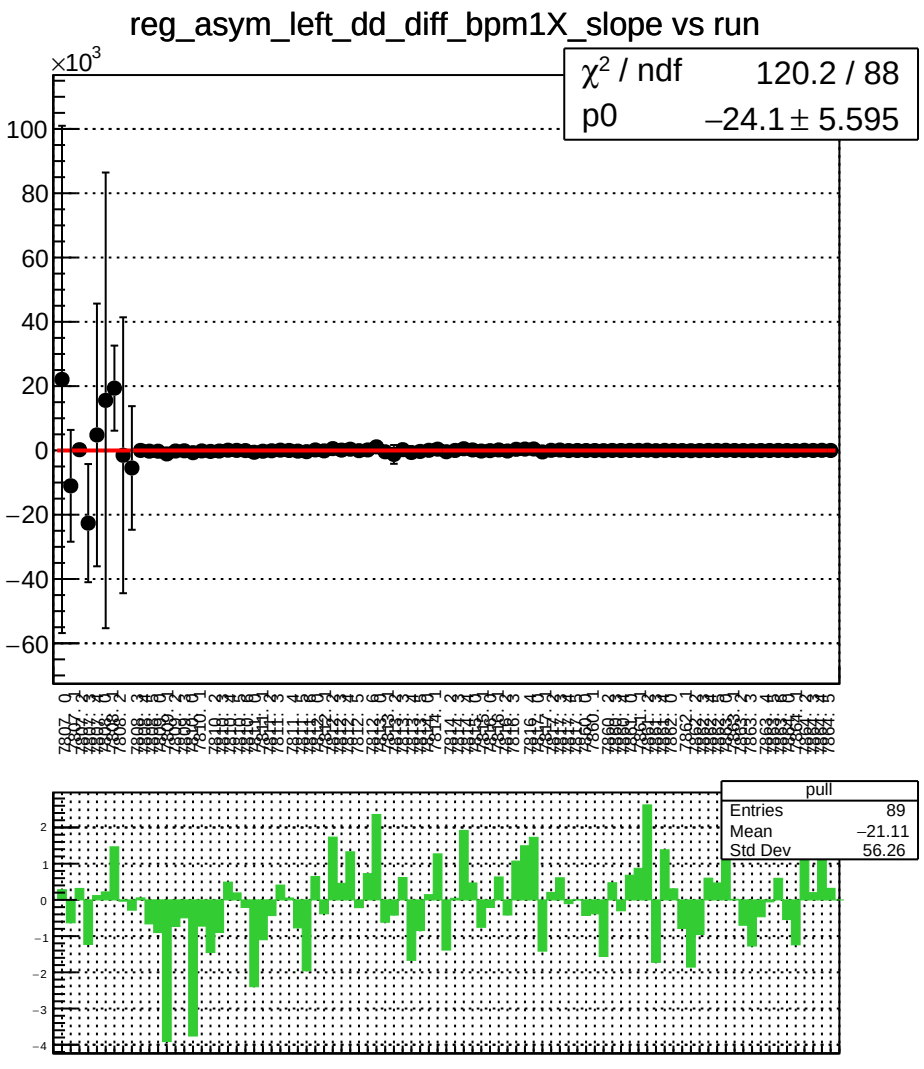

pull1D
Entries 89
Mean −0.1145
Std Dev 1.21

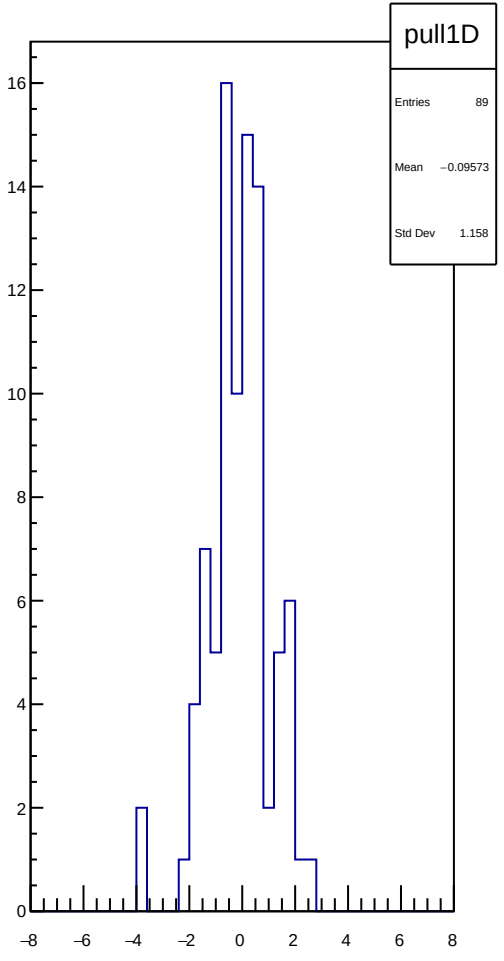

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 102.9 / 88
p0 12.12 ± 6.683
×10³
pull
Entries 89
Mean 19.16
Std Dev 31.79

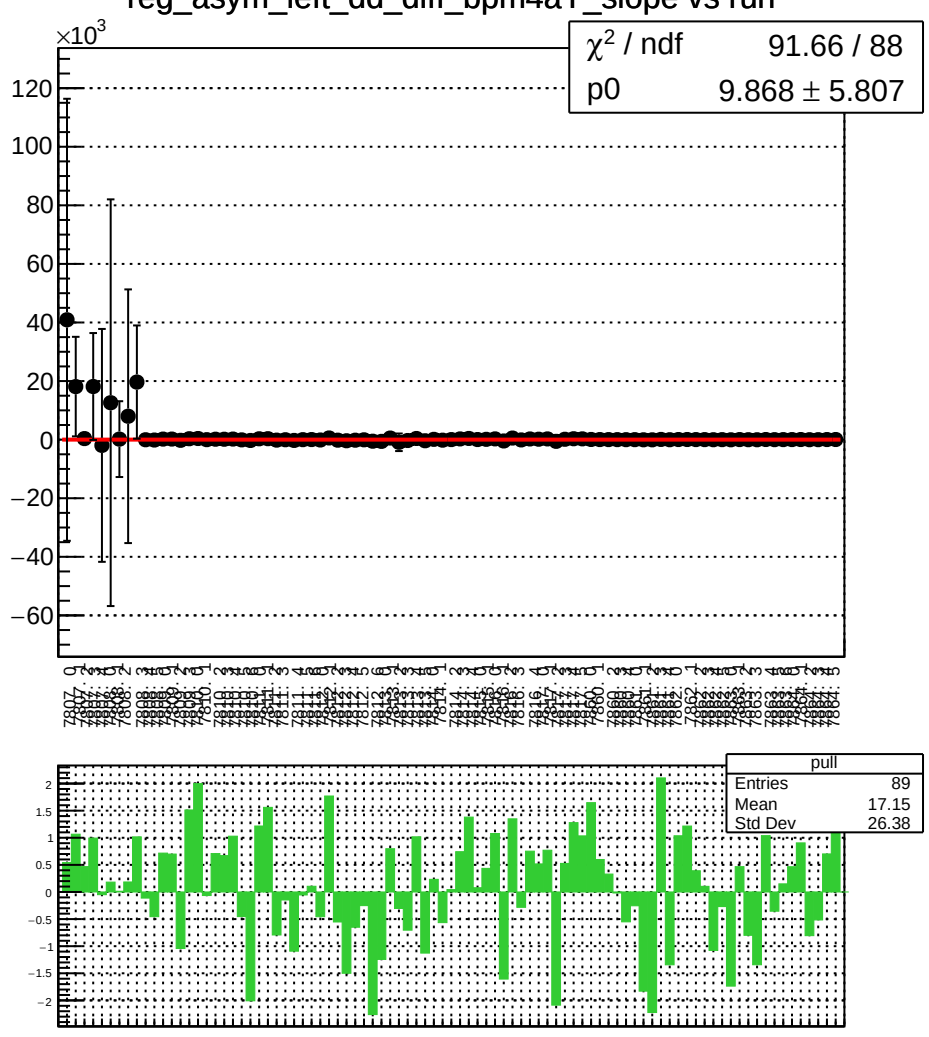

pull1D
Entries 89
Mean 0.07382
Std Dev 1.072

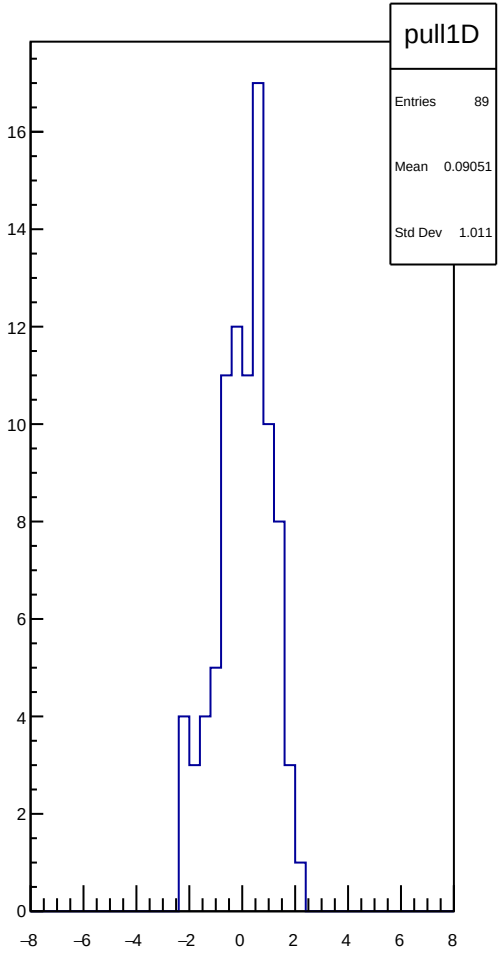

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 144.5 / 88
p0 −21.7 ± 0.2011
pull
Entries 89
Mean 12.92
Std Dev 21.45

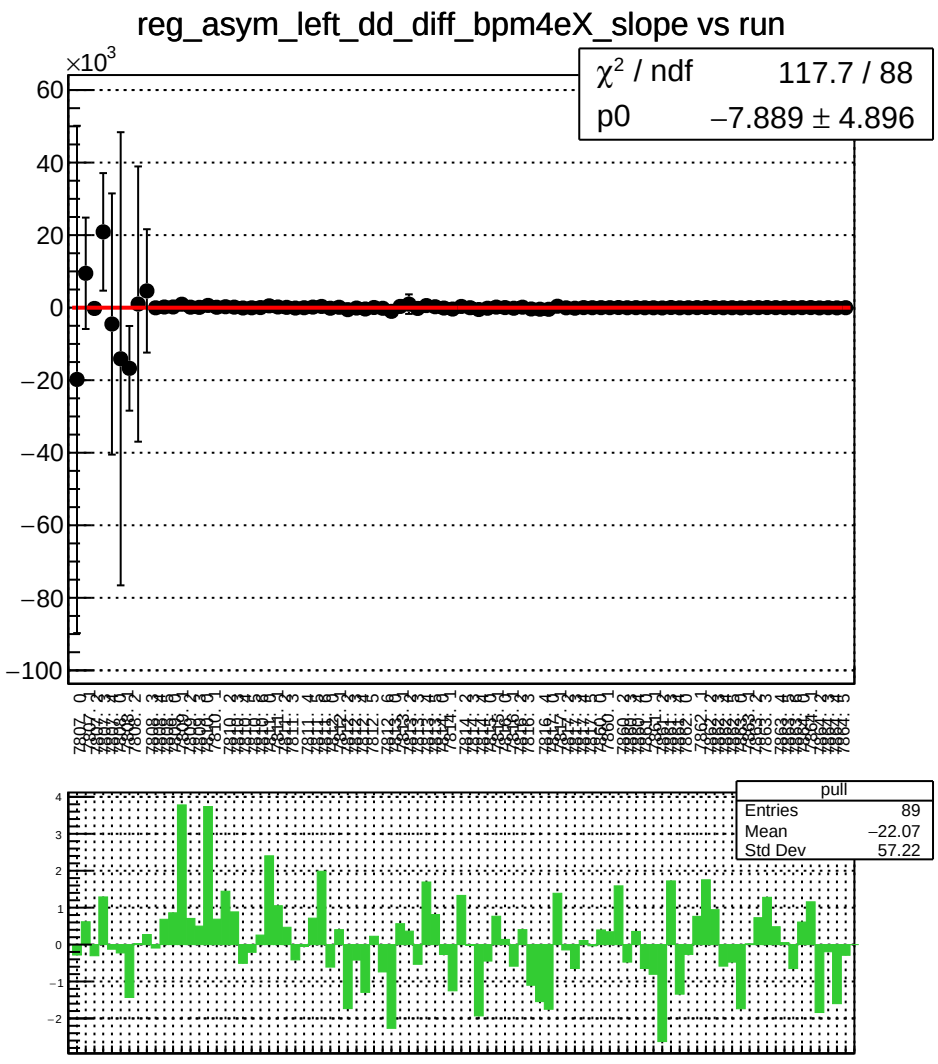

pull1D
Entries 89
Mean 0.192
Std Dev 1.26

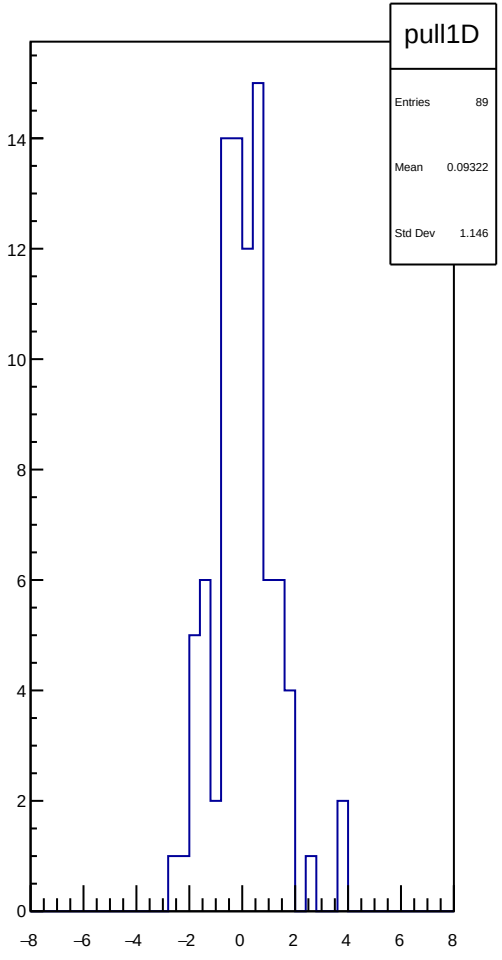

reg_asym_left_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 120.2 / 88
p0 −24.1 ± 5.595
pull
Entries 89
Mean −21.11
Std Dev 56.26

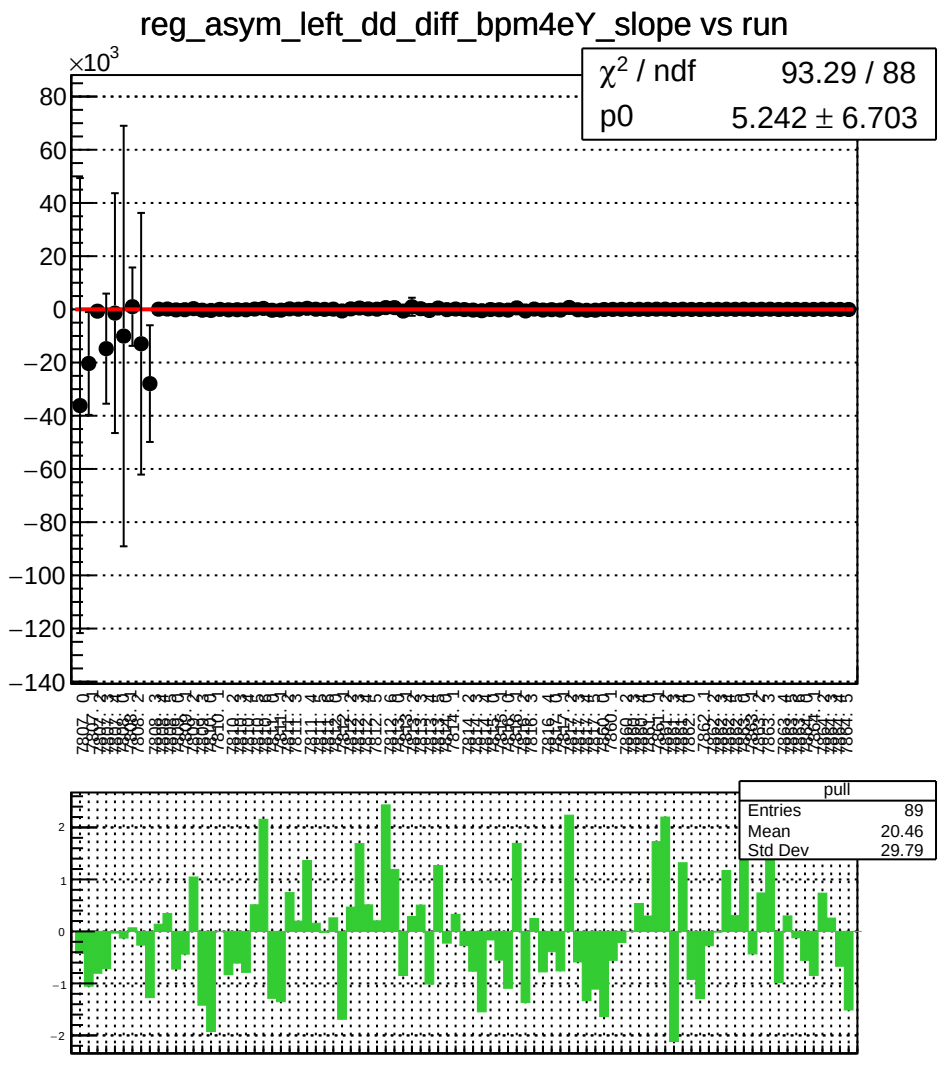

pull1D
Entries 89
Mean −0.09573
Std Dev 1.158

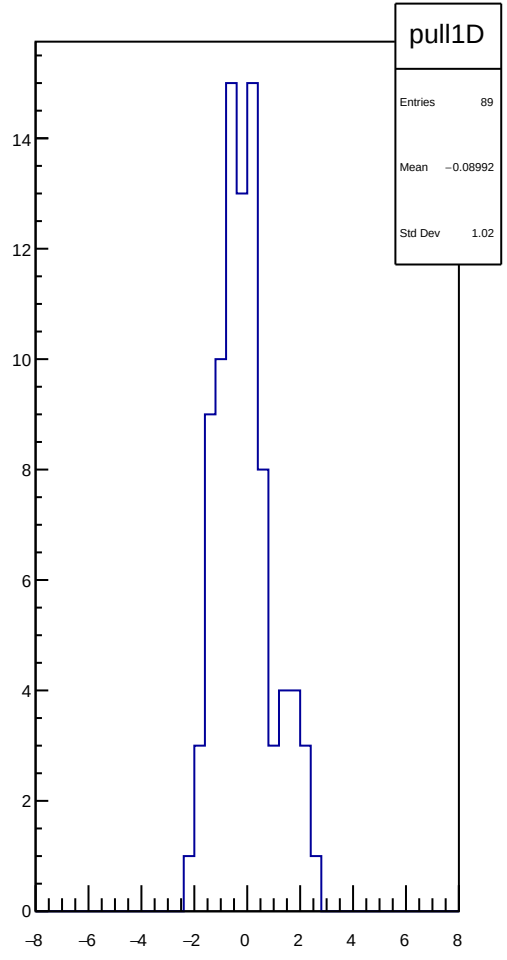

reg_asym_left_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 91.66 / 88
p0 9.868 ± 5.807
pull
Entries 89
Mean 17.15
Std Dev 26.38

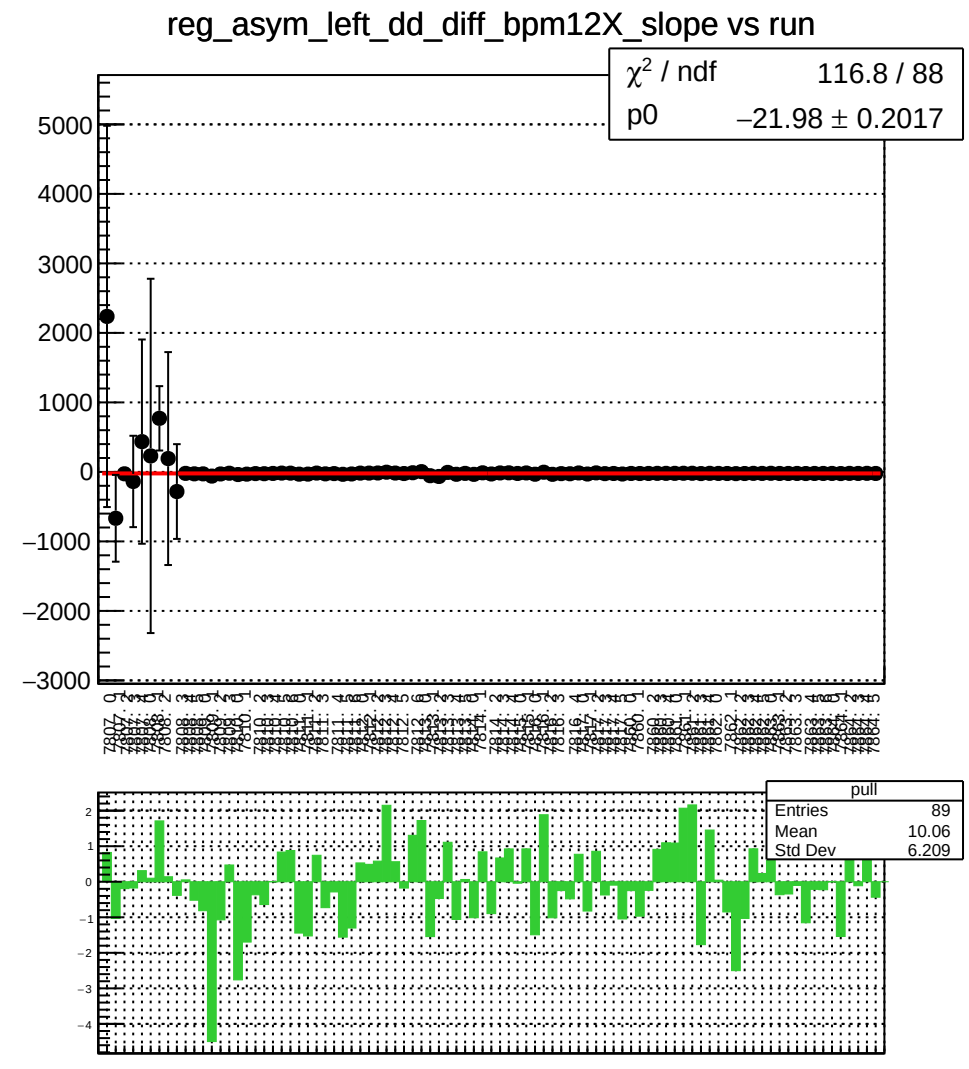

pull1D
Entries 89
Mean 0.09051
Std Dev 1.011

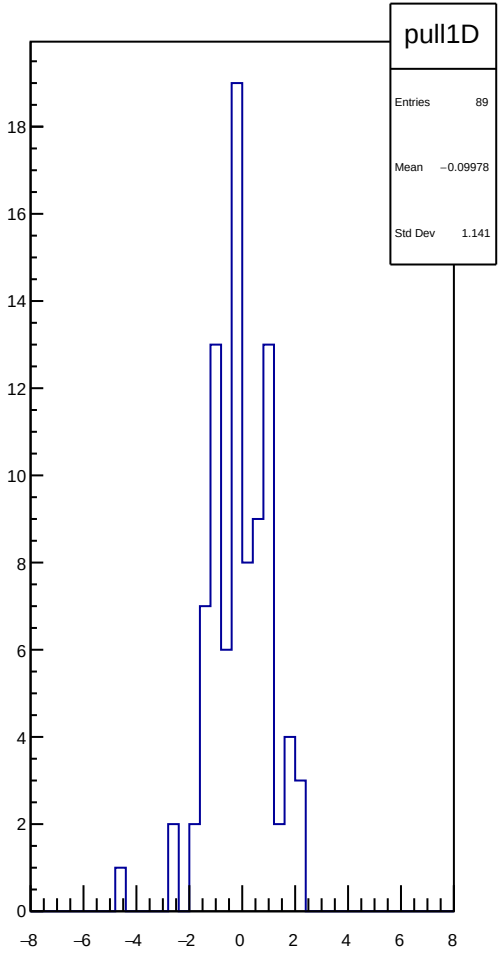

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 117.7 / 88
p0 −7.889 ± 4.896
×10³
pull
Entries 89
Mean −22.07
Std Dev 57.22

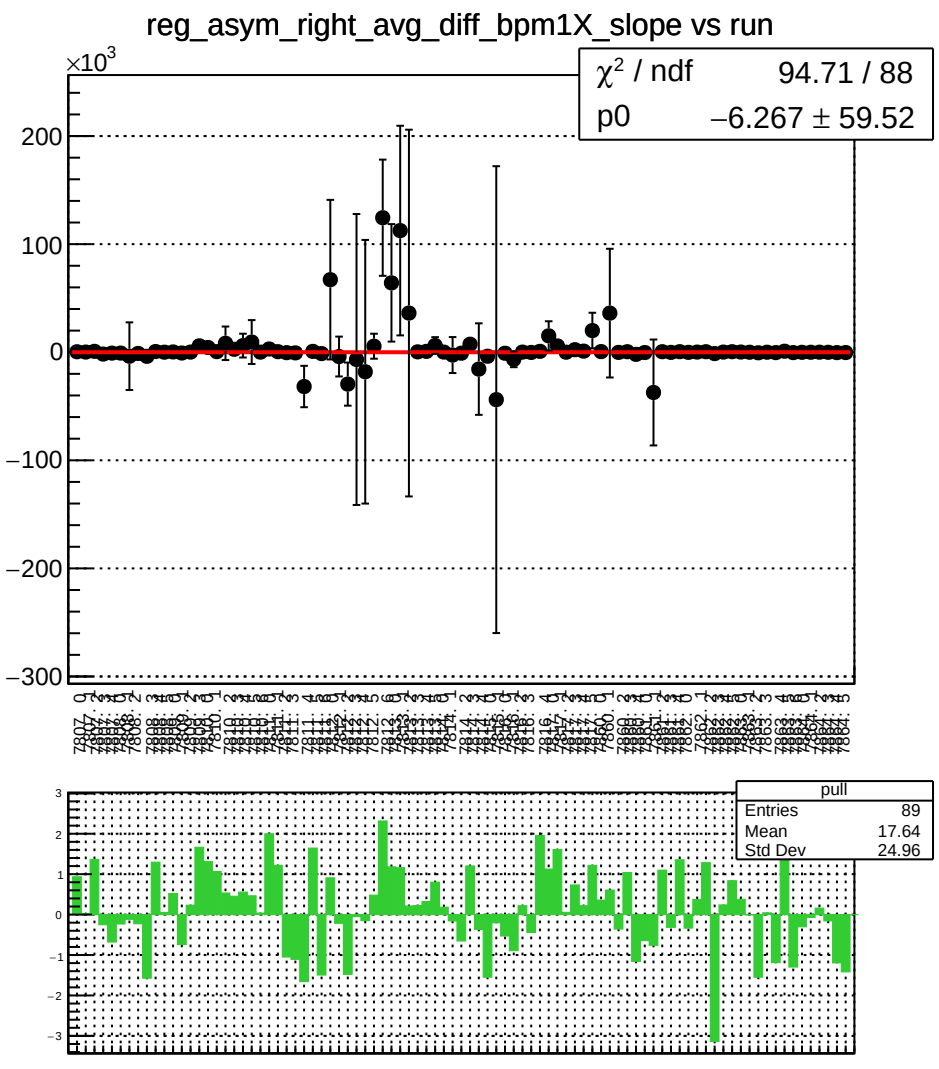

pull1D
Entries 89
Mean 0.09322
Std Dev 1.146

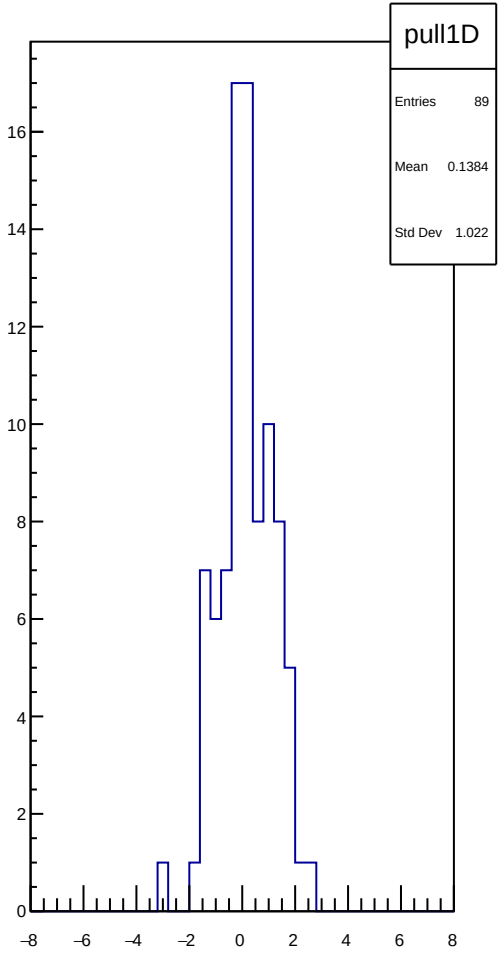

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 93.29 / 88
p0 5.242 ± 6.703
pull
Entries 89
Mean 20.46
Std Dev 29.79

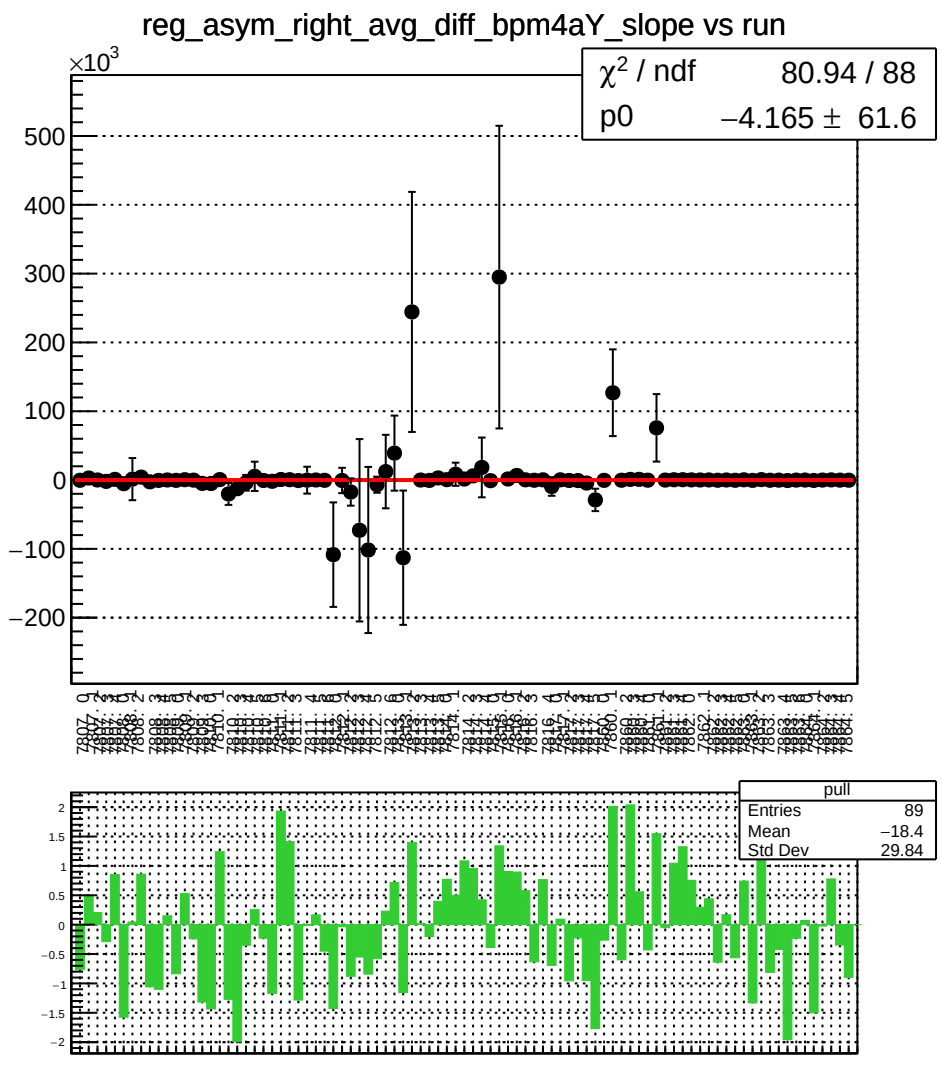

pull1D
Entries 89
Mean −0.08992
Std Dev 1.02

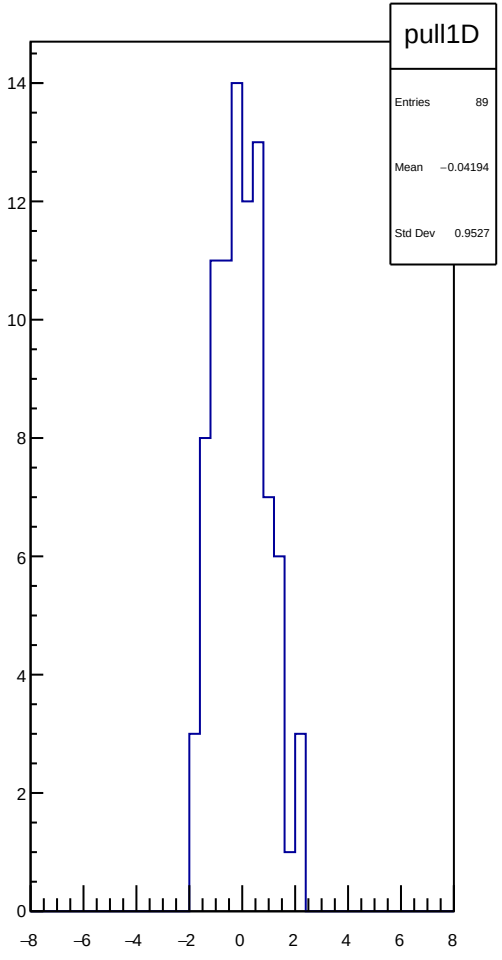

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 116.8 / 88
p0 −21.98 ± 0.2017
pull
Entries 89
Mean 10.06
Std Dev 6.209

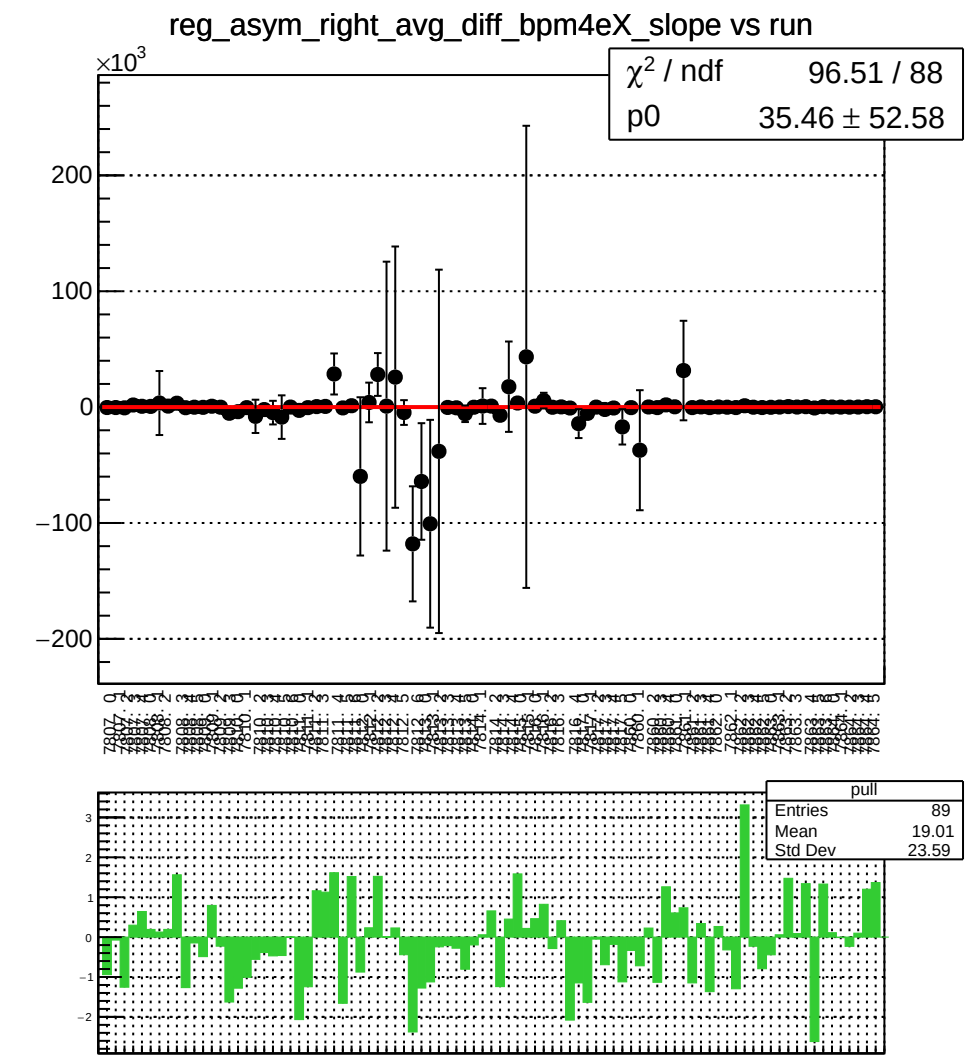

pull1D
Entries 89
Mean −0.09978
Std Dev 1.141

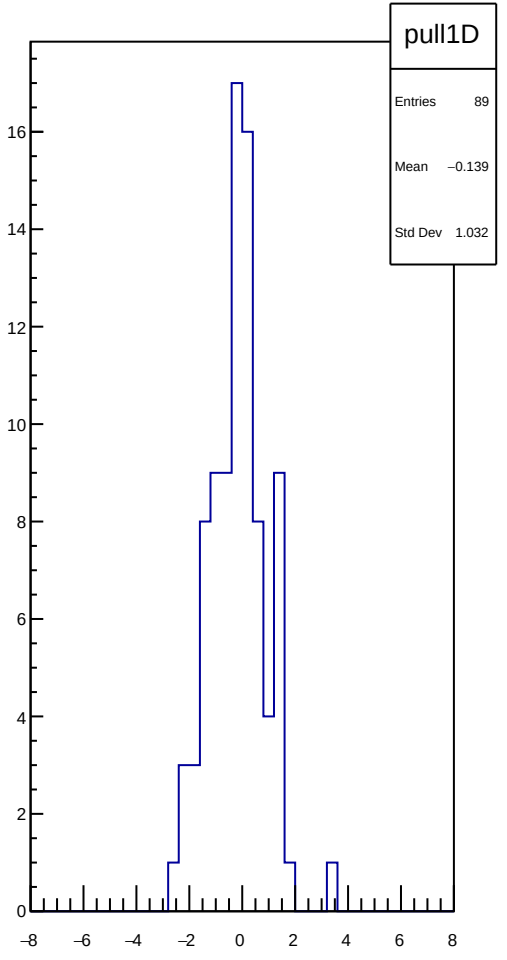

reg_asym_right_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 94.71 / 88
p0 −6.267 ± 59.52
200
100
0
−100
−200
−300
pull
Entries 89
Mean 17.64
Std Dev 24.96
3
2
1
0
−1
−2
−3

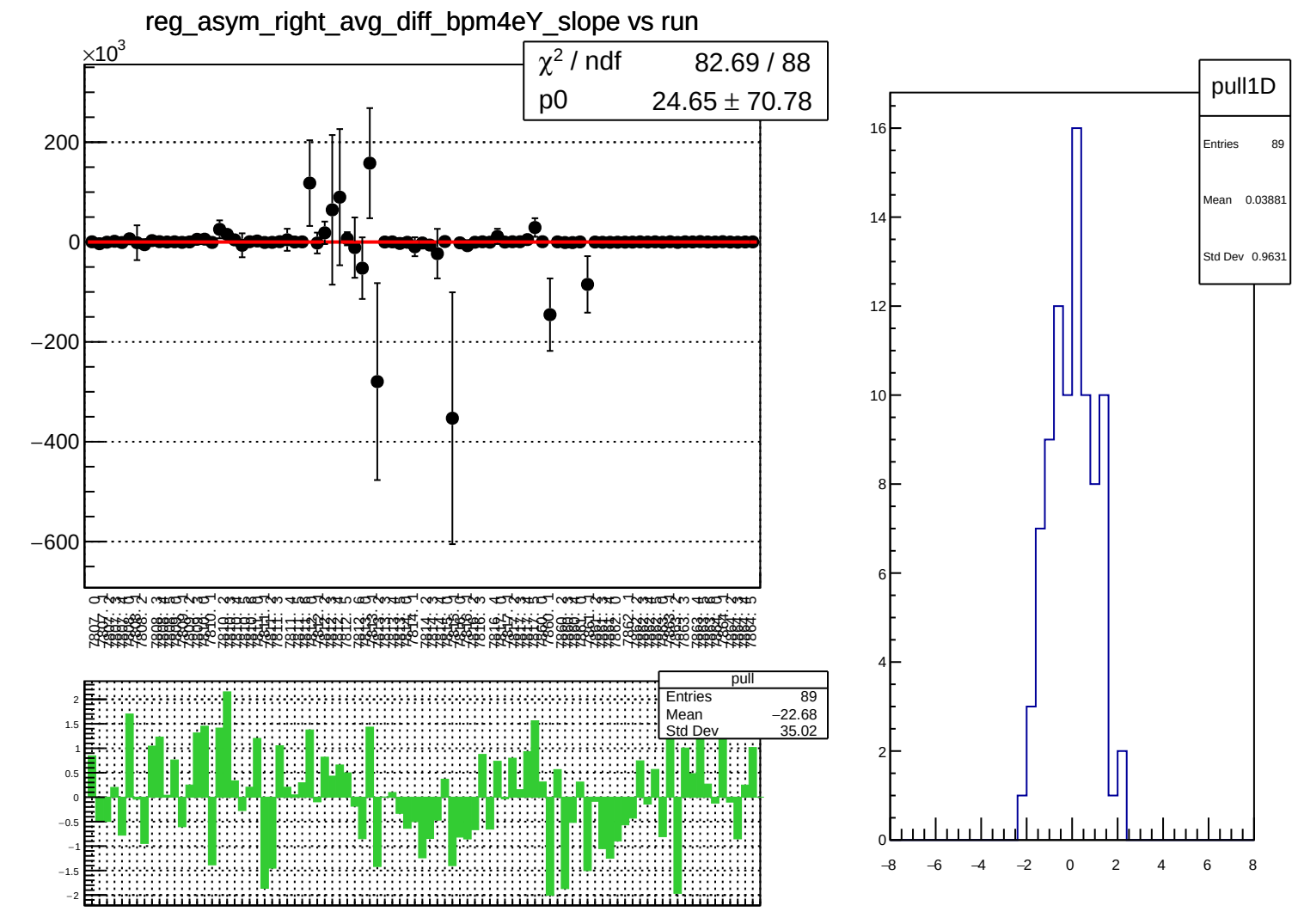

pull1D
Entries 89
Mean 0.1384
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

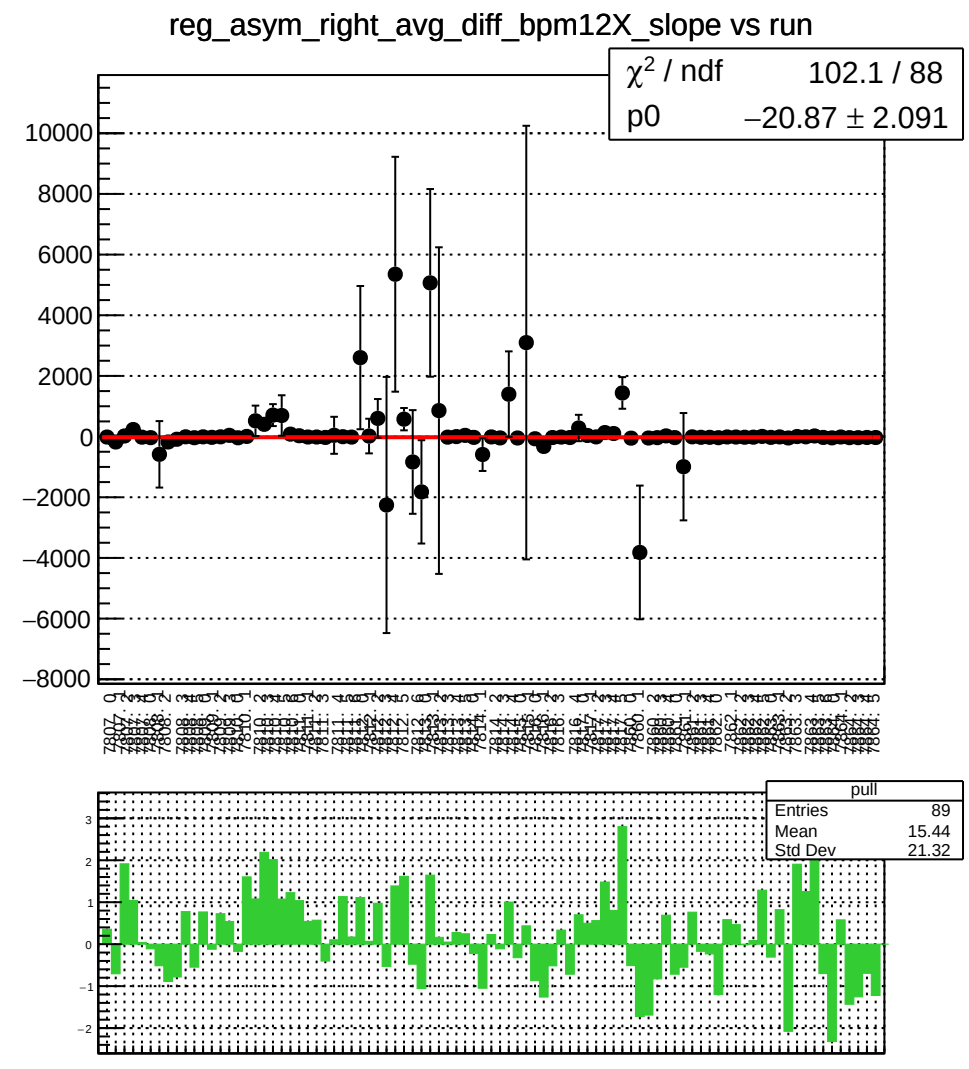

reg_asym_right_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 80.94 / 88
p0 −4.165 ± 61.6
500
400
300
200
100
0
−100
−200
pull
Entries 89
Mean −18.4
Std Dev 29.84
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

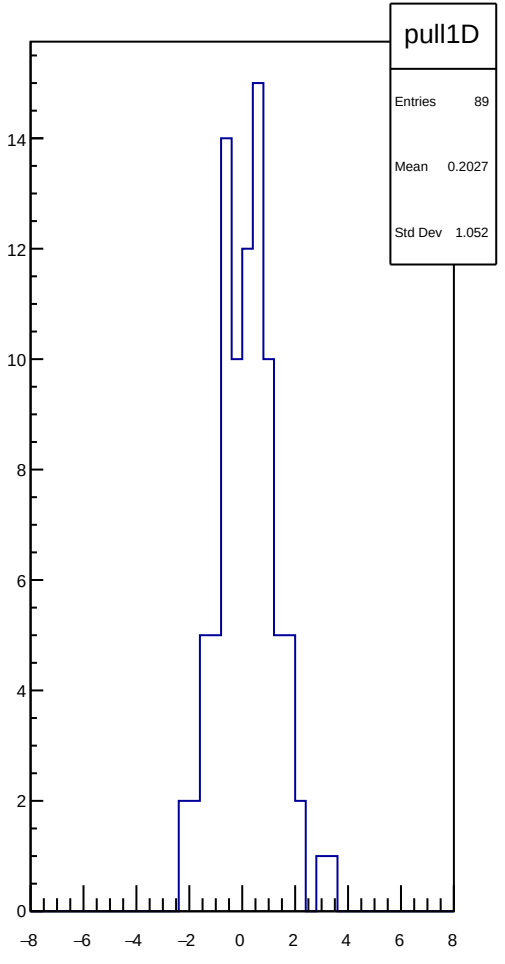

pull1D
Entries 89
Mean −0.04194
Std Dev 0.9527
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

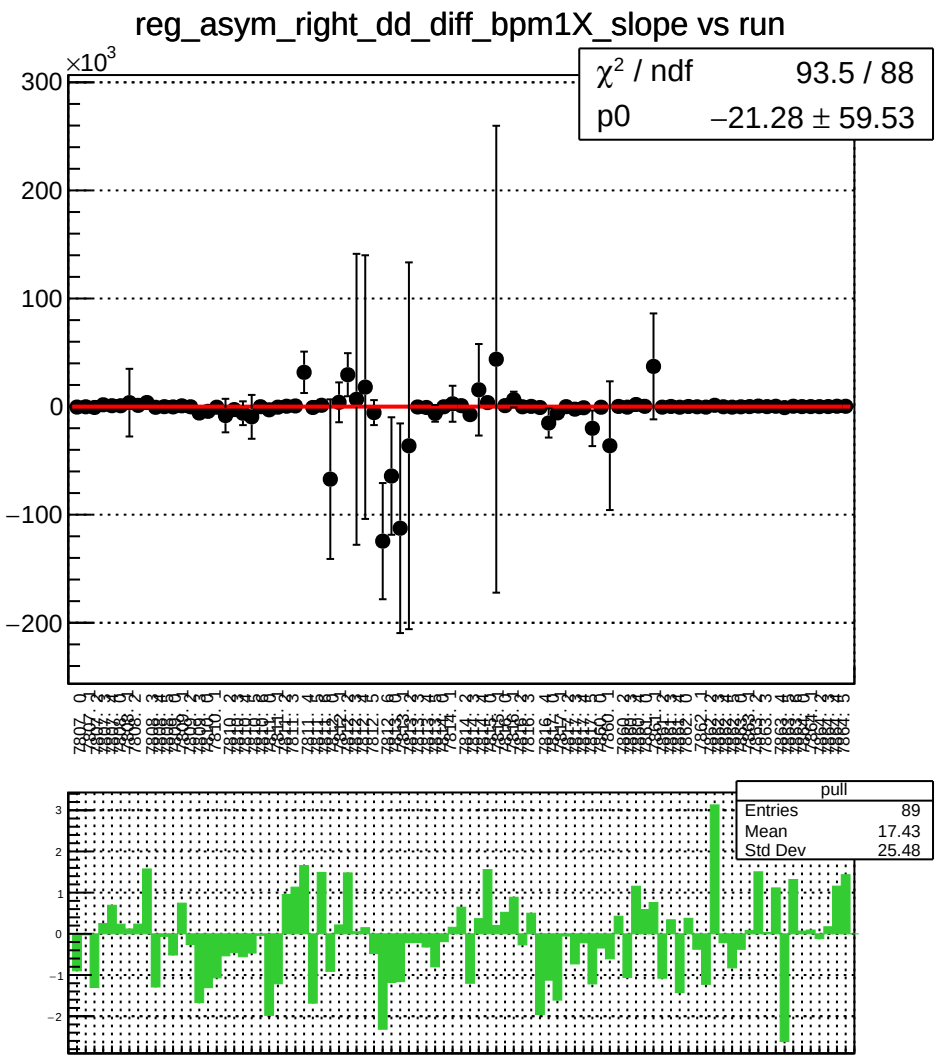

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 96.51 / 88
p0 35.46 ± 52.58
×10³
pull
Entries 89
Mean 19.01
Std Dev 23.59

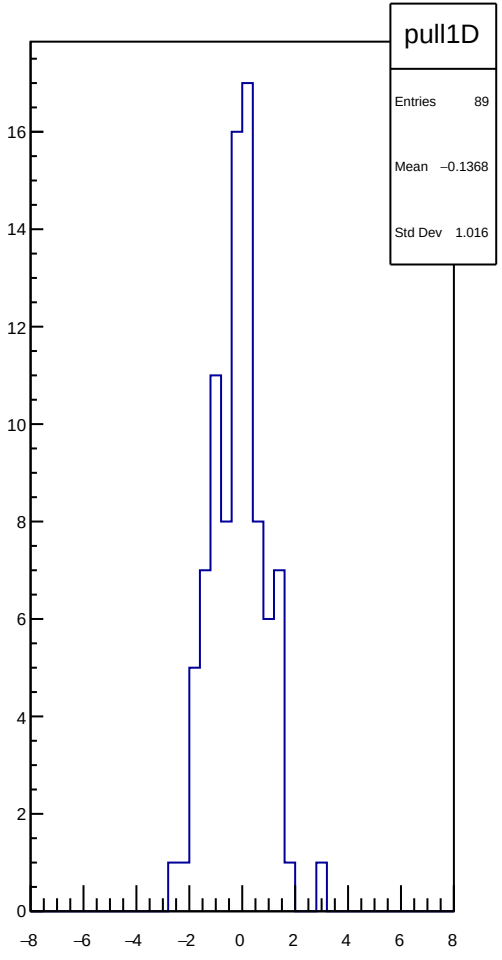

pull1D
Entries 89
Mean −0.139
Std Dev 1.032

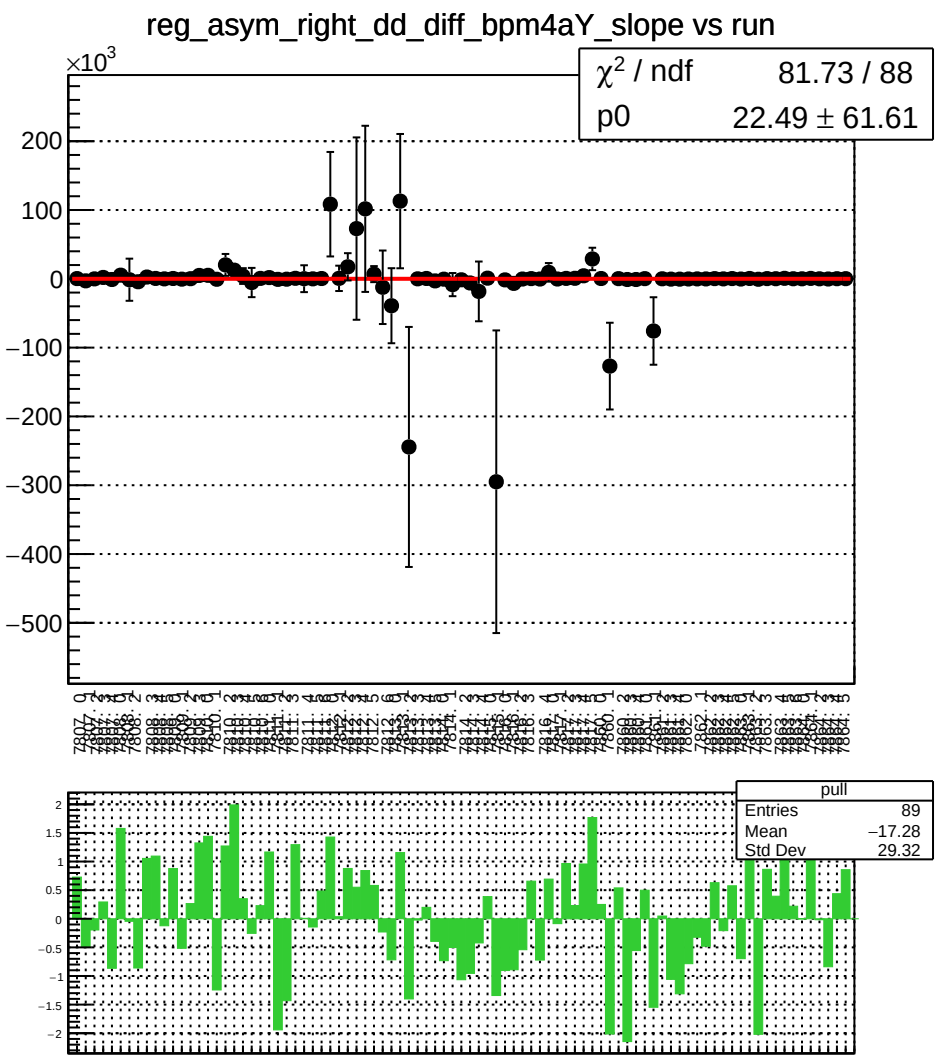

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 82.69 / 88
p0 24.65 ± 70.78
×10³
200
0
−200
−400
−600
pull
Entries 89
Mean −22.68
Std Dev 35.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.03881
Std Dev 0.9631
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

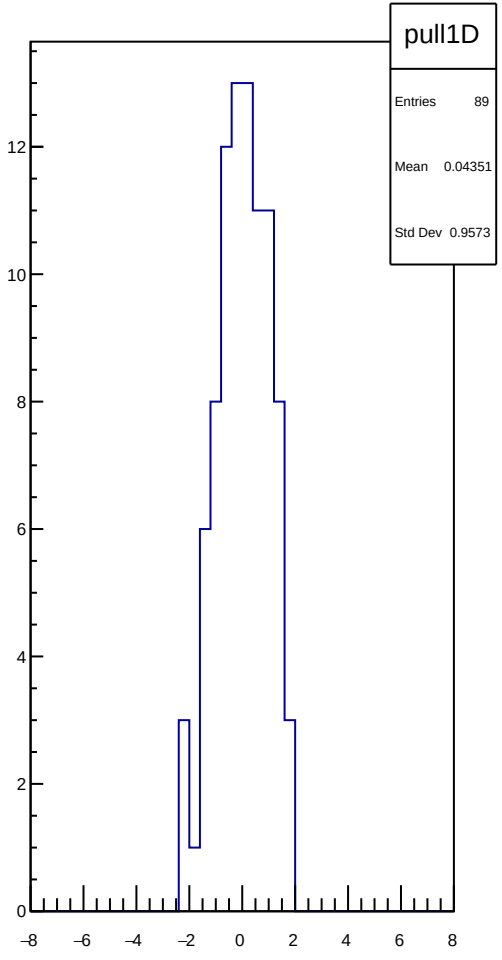

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 102.1 / 88
p0 −20.87 ± 2.091
pull
Entries 89
Mean 15.44
Std Dev 21.32

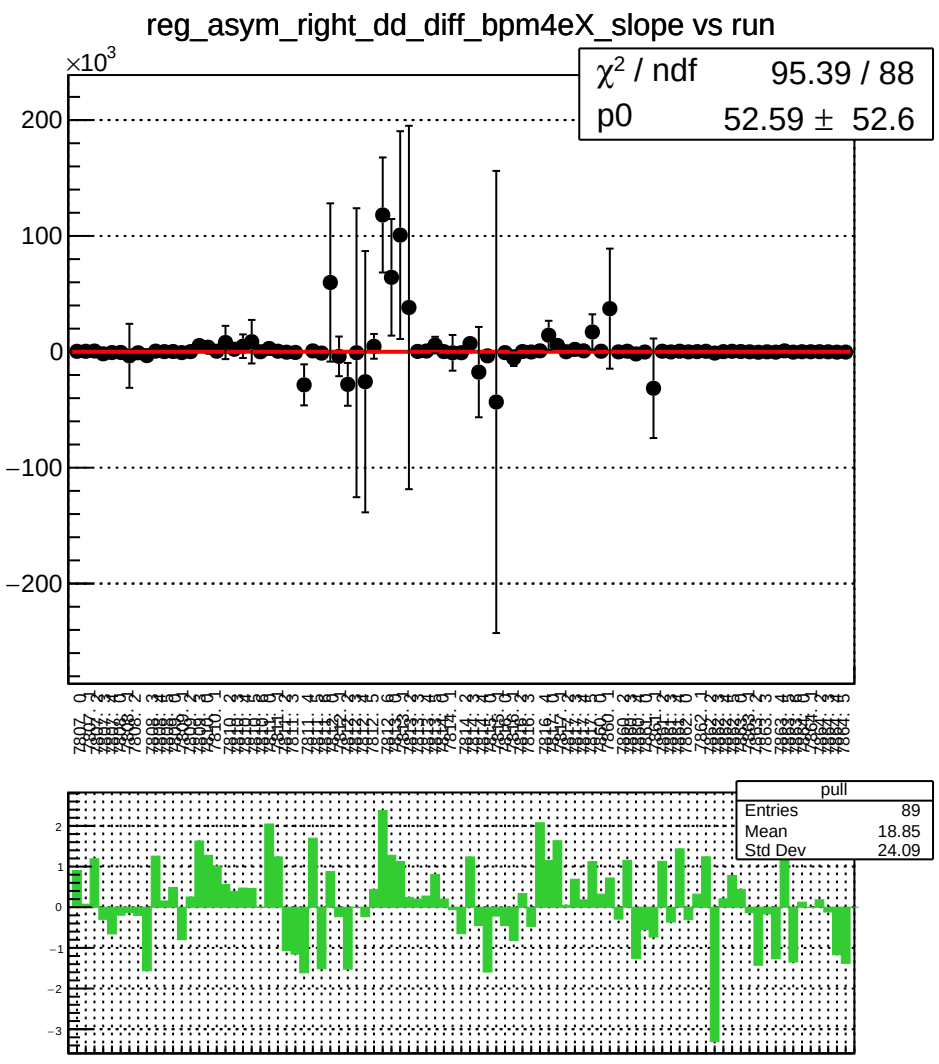

pull1D
Entries 89
Mean 0.2027
Std Dev 1.052

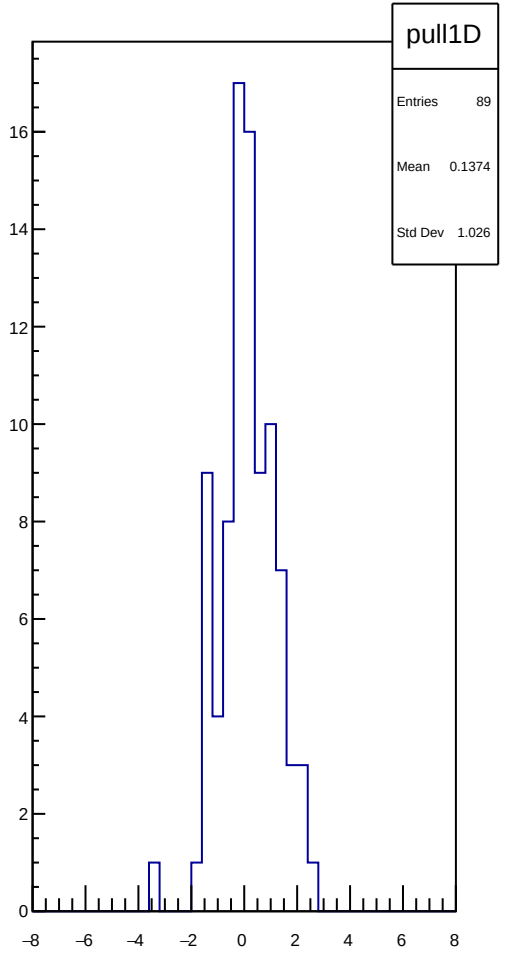

reg_asym_right_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 93.5 / 88
p0 −21.28 ± 59.53
pull
Entries 89
Mean 17.43
Std Dev 25.48

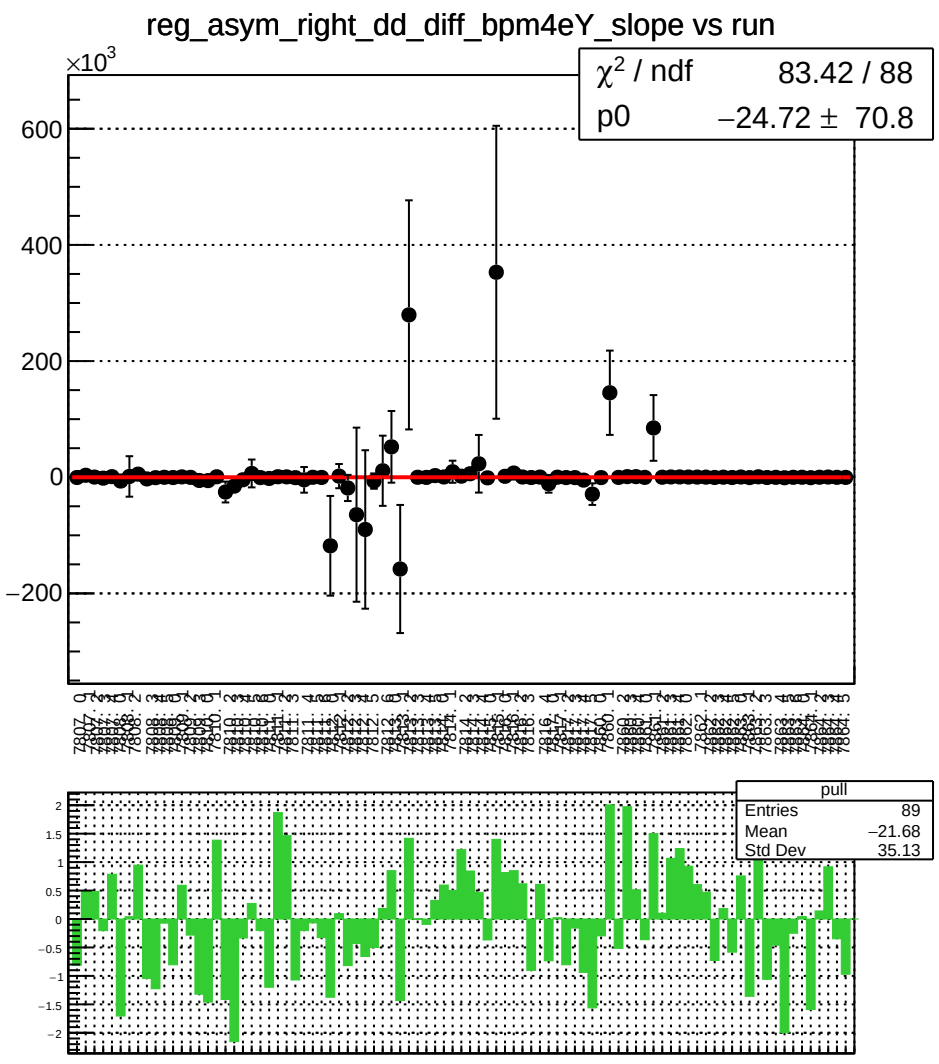

pull1D
Entries 89
Mean −0.1368
Std Dev 1.016

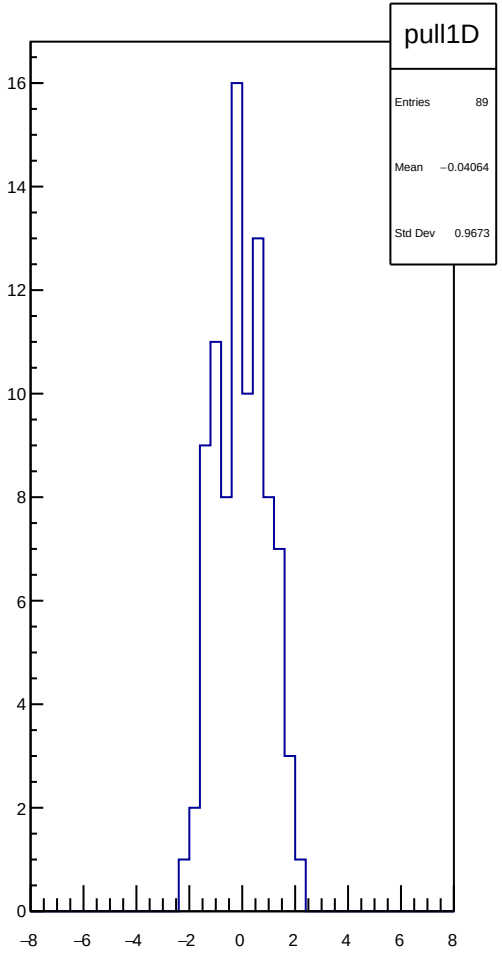

reg_asym_right_dd_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 81.73 / 88
p0 22.49 ± 61.61
200
100
0
−100
−200
−300
−400
−500
pull
Entries 89
Mean −17.28
Std Dev 29.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

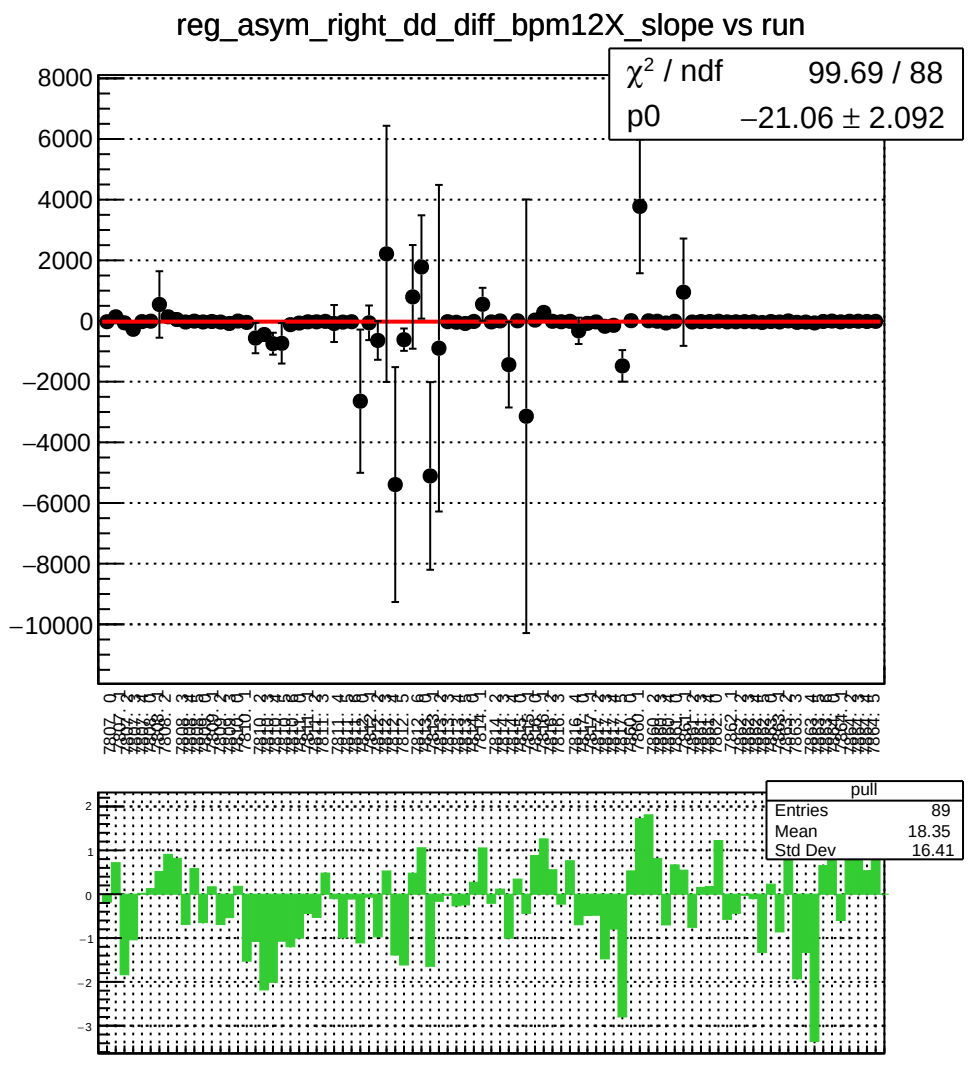

pull1D
Entries 89
Mean 0.04351
Std Dev 0.9573
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

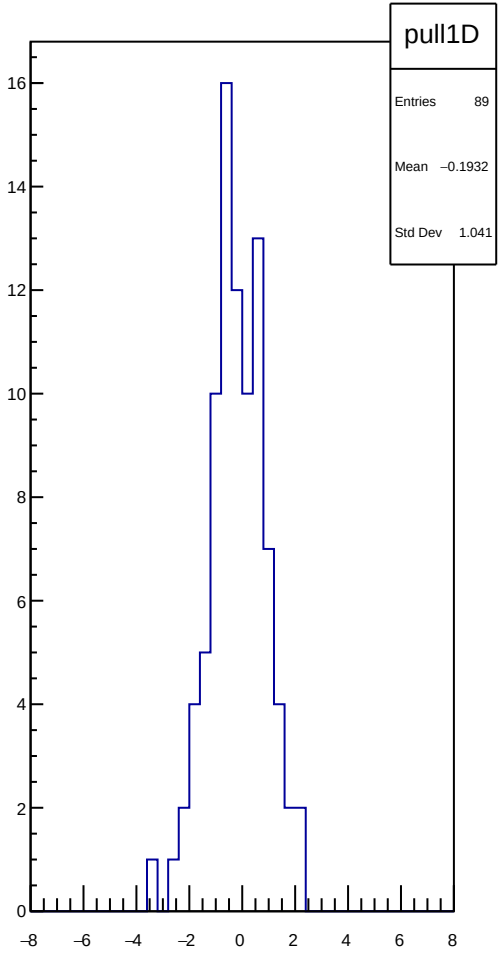

reg_asym_right_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 95.39 / 88
p0 52.59 ± 52.6
200
100
0
−100
−200
pull
Entries 89
Mean 18.85
Std Dev 24.09
2
1
0
−1
−2
−3

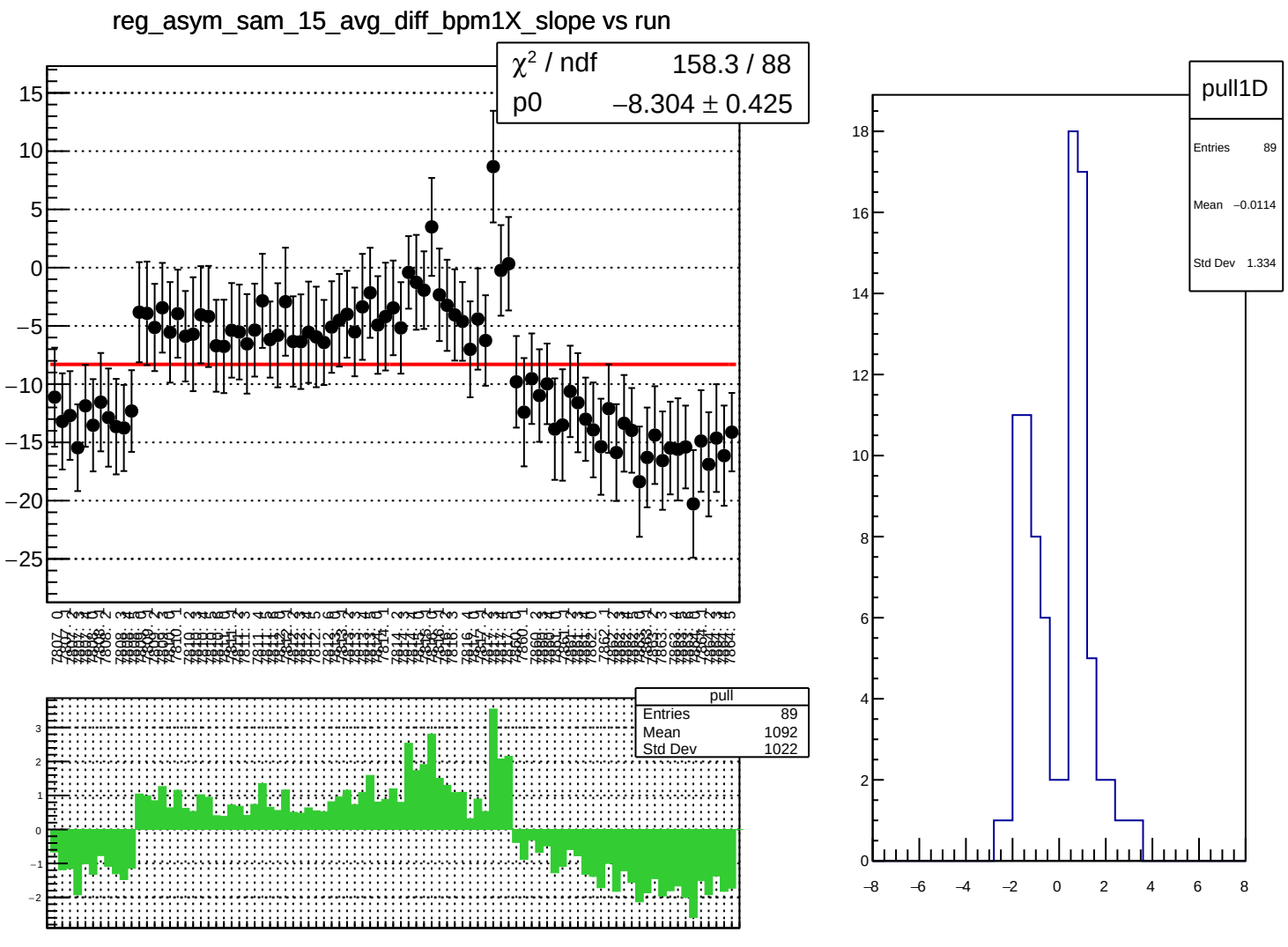

pull1D
Entries 89
Mean 0.1374
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

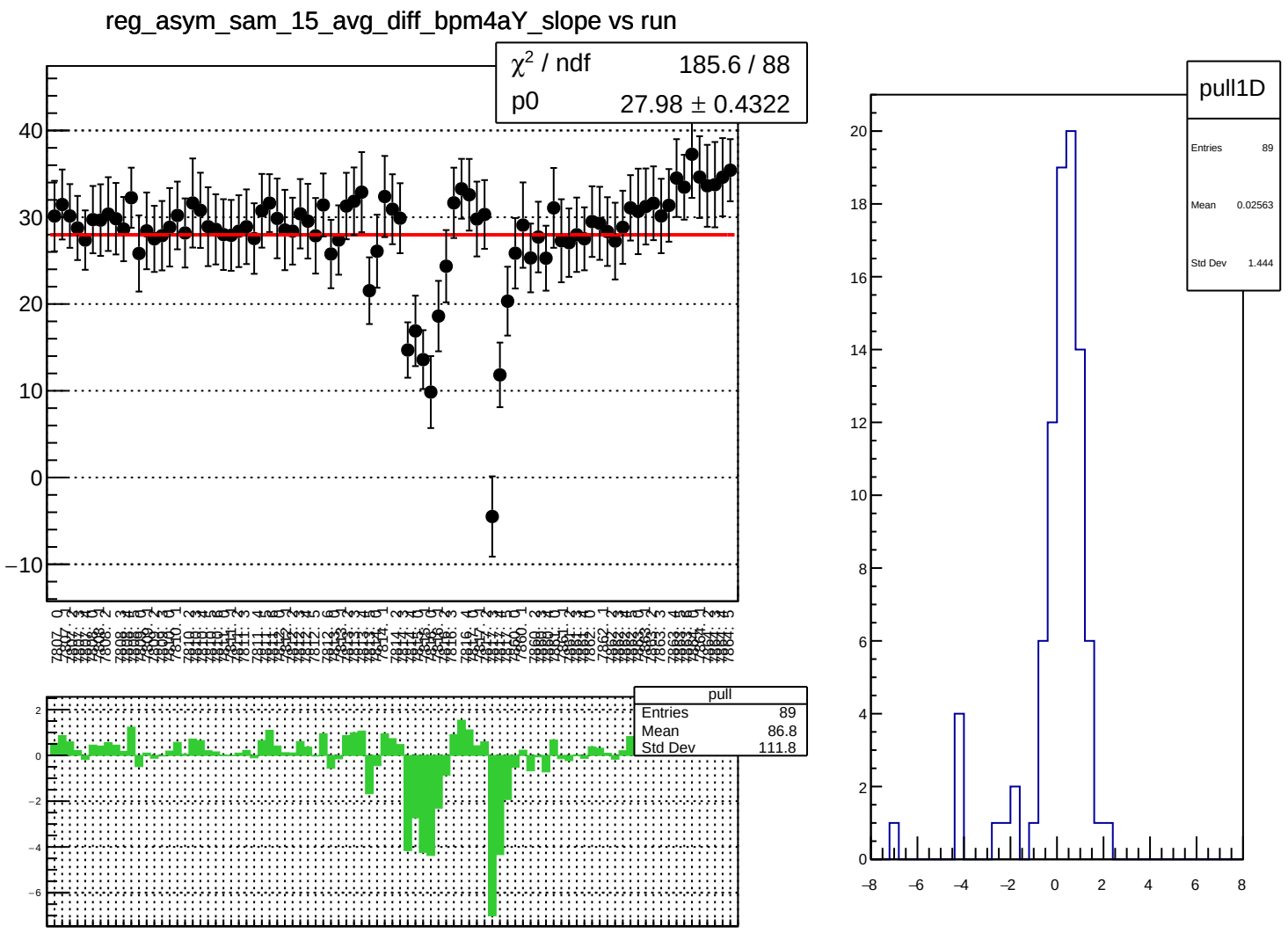

reg_asym_right_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 83.42 / 88
p0 −24.72 ± 70.8
600
400
200
0
−200
pull
Entries 89
Mean −21.68
Std Dev 35.13
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

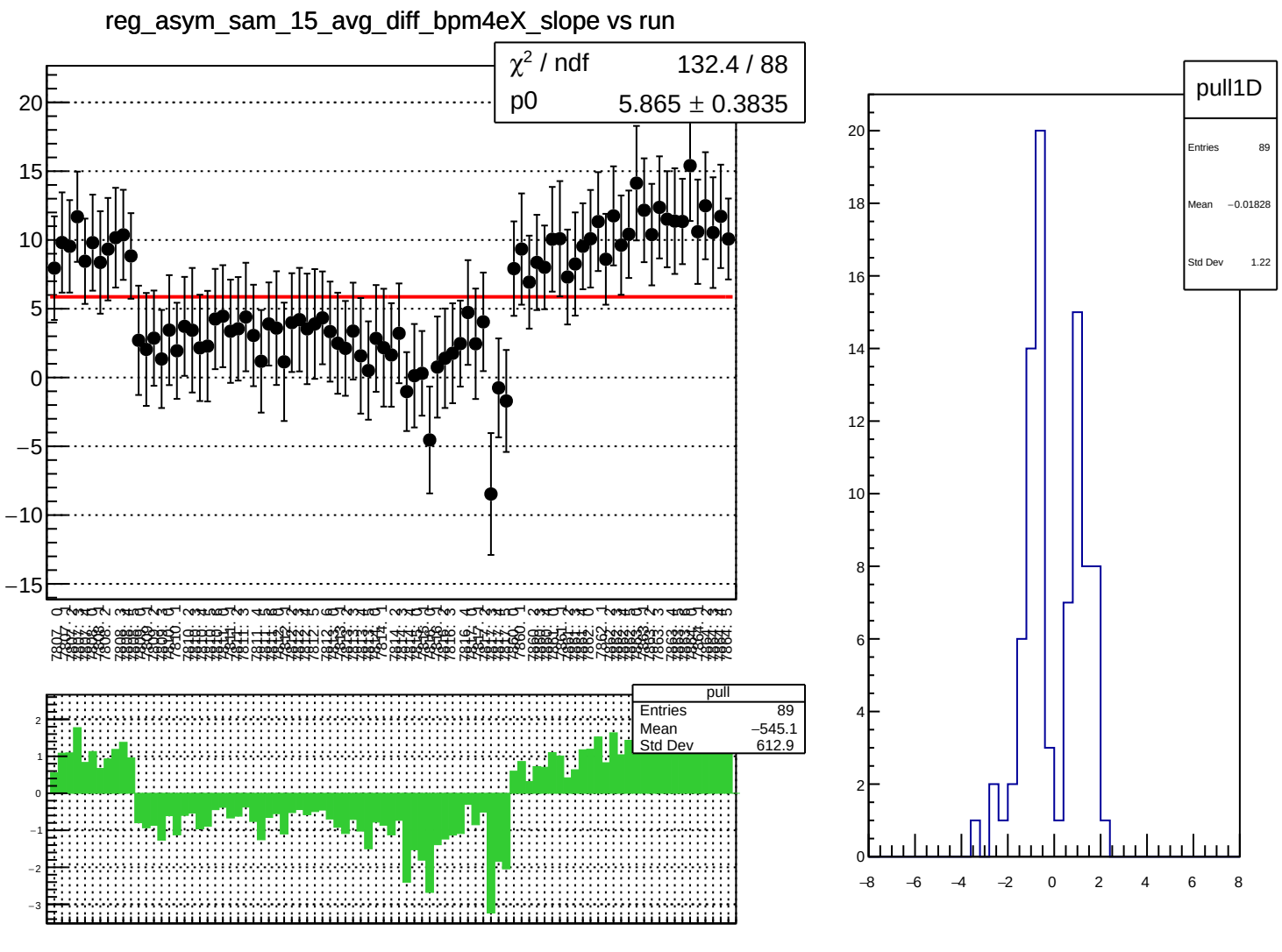

pull1D
Entries 89
Mean −0.04064
Std Dev 0.9673
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

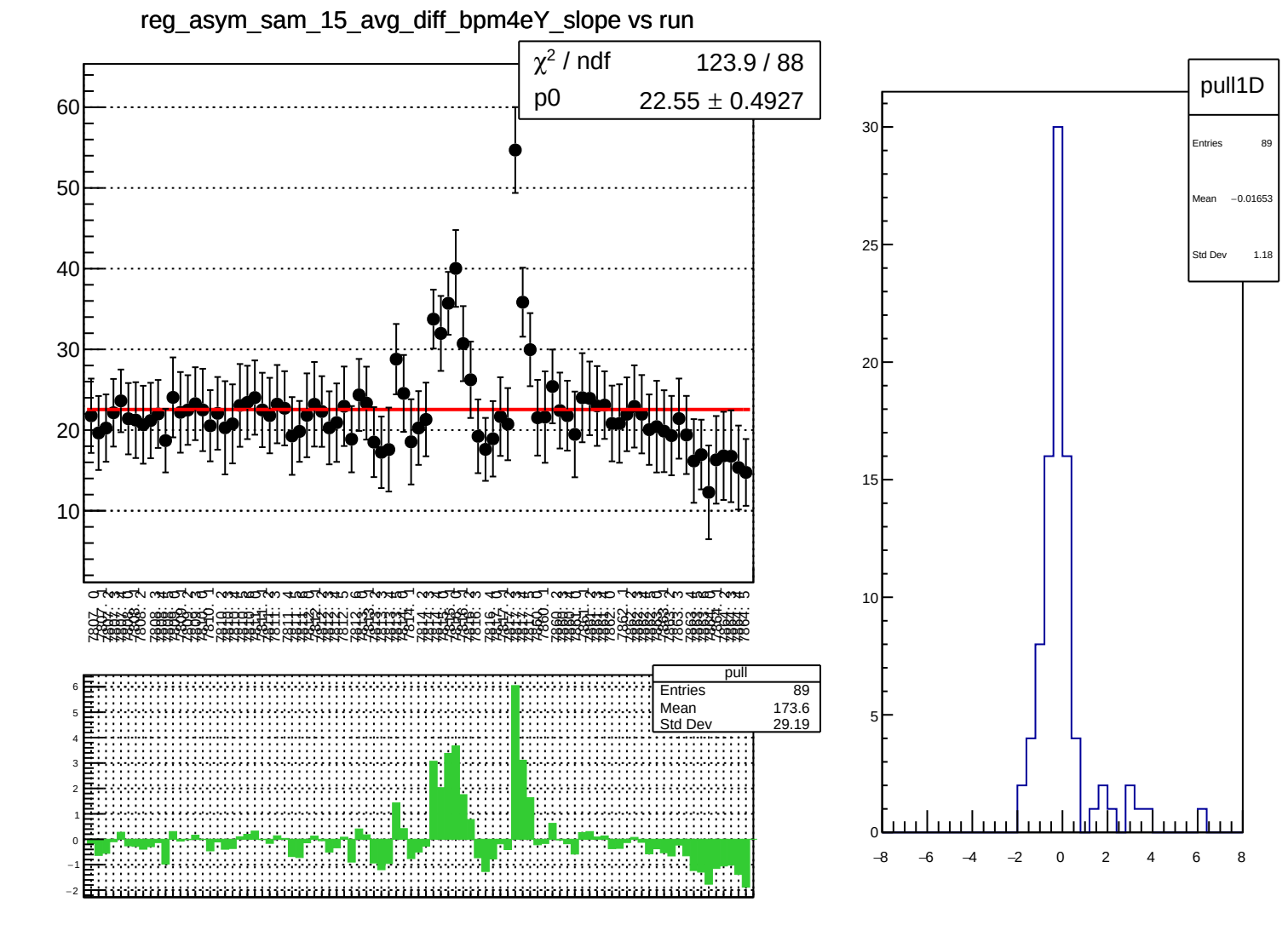

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 99.69 / 88
p0 −21.06 ± 2.092
pull
Entries 89
Mean 18.35
Std Dev 16.41

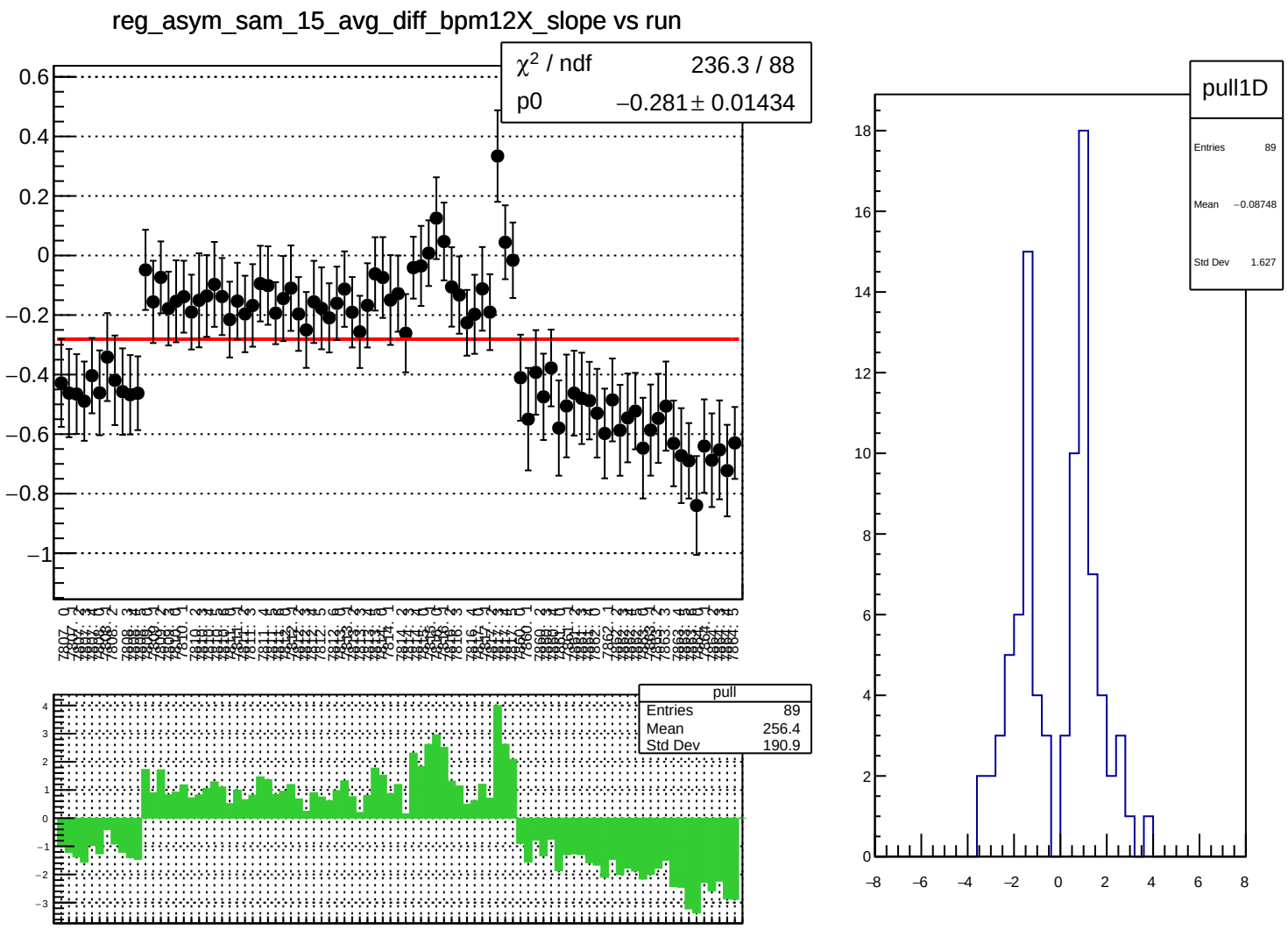

pull1D
Entries 89
Mean −0.1932
Std Dev 1.041

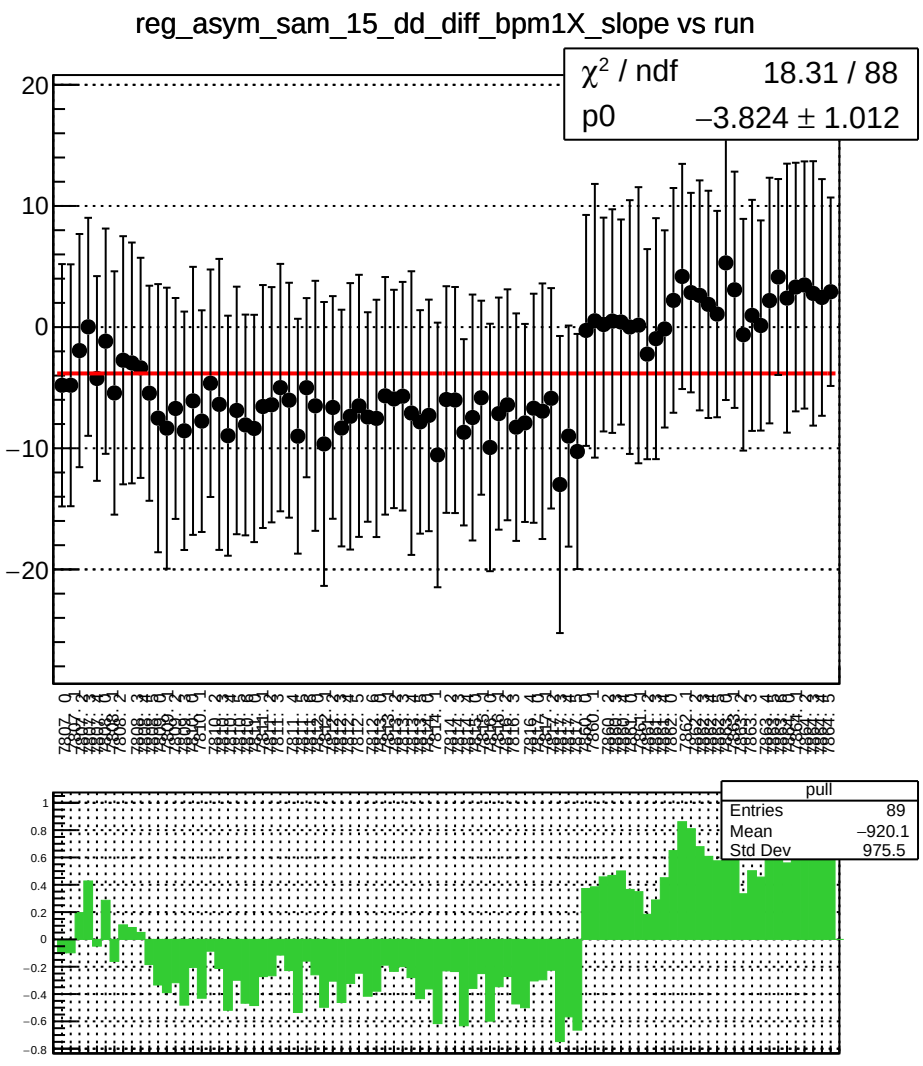

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 158.3 / 88
p0 −8.304 ± 0.425
pull
Entries 89
Mean 1092
Std Dev 1022
pull1D
Entries 89
Mean −0.0114
Std Dev 1.334

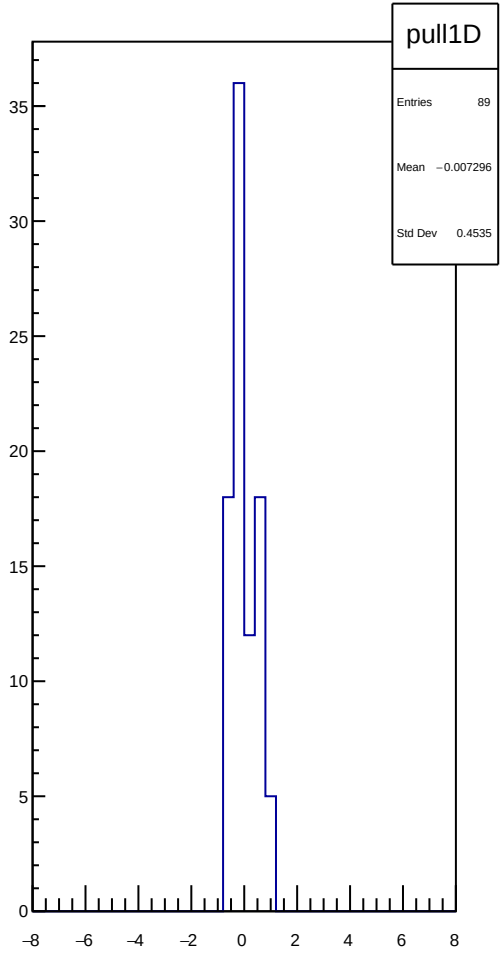

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 185.6 / 88
p0 27.98 ± 0.4322
pull
Entries 89
Mean 86.8
Std Dev 111.8
pull1D
Entries 89
Mean 0.02563
Std Dev 1.444

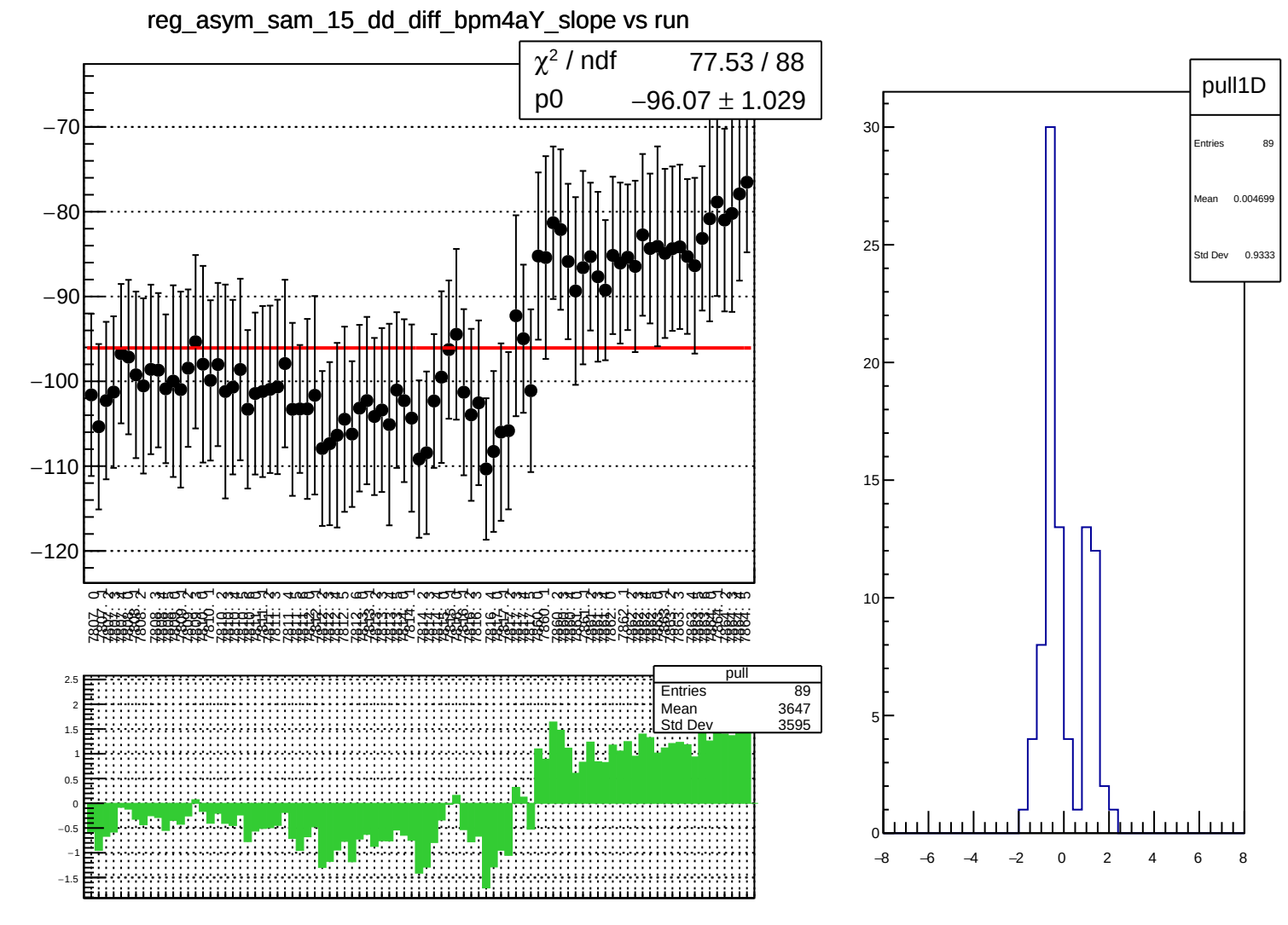

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 132.4 / 88
p0 5.865 ± 0.3835
pull
Entries 89
Mean −545.1
Std Dev 612.9
pull1D
Entries 89
Mean −0.01828
Std Dev 1.22

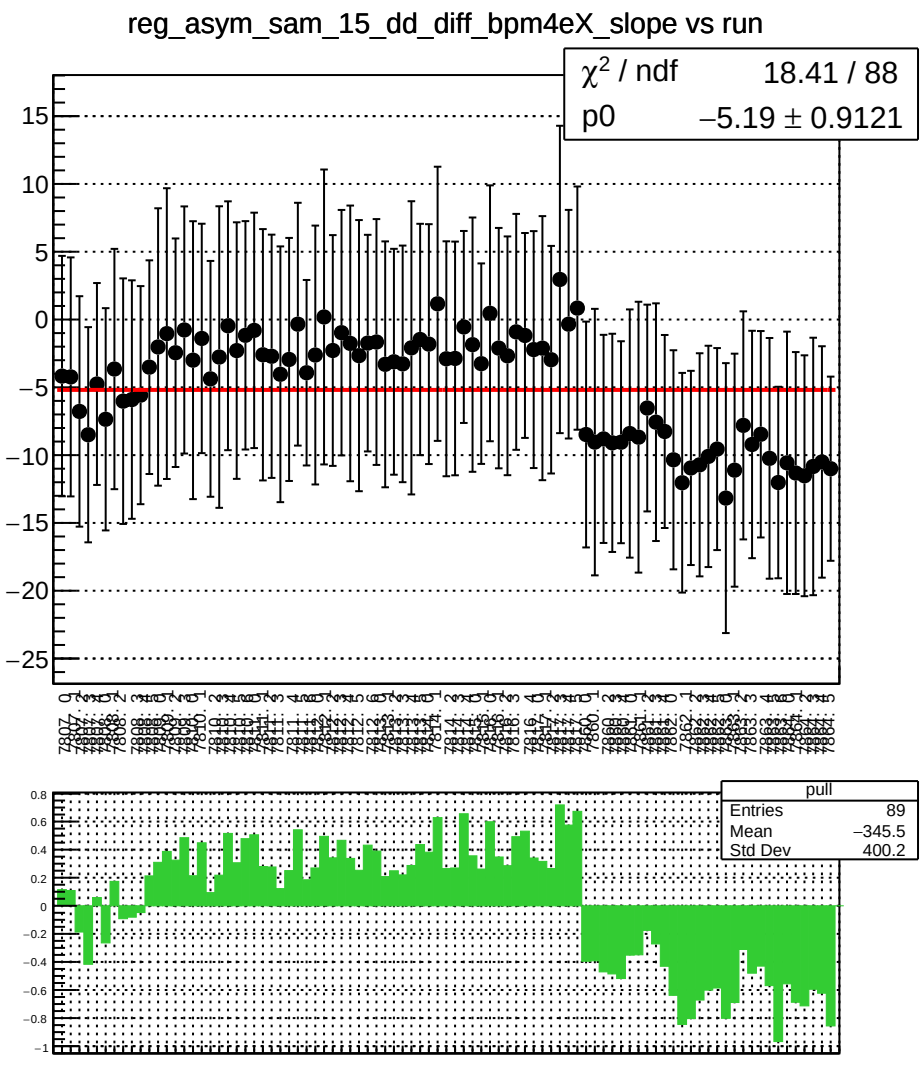

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 123.9 / 88
p0 22.55 ± 0.4927
pull
Entries 89
Mean 173.6
Std Dev 29.19
pull1D
Entries 89
Mean −0.01653
Std Dev 1.18

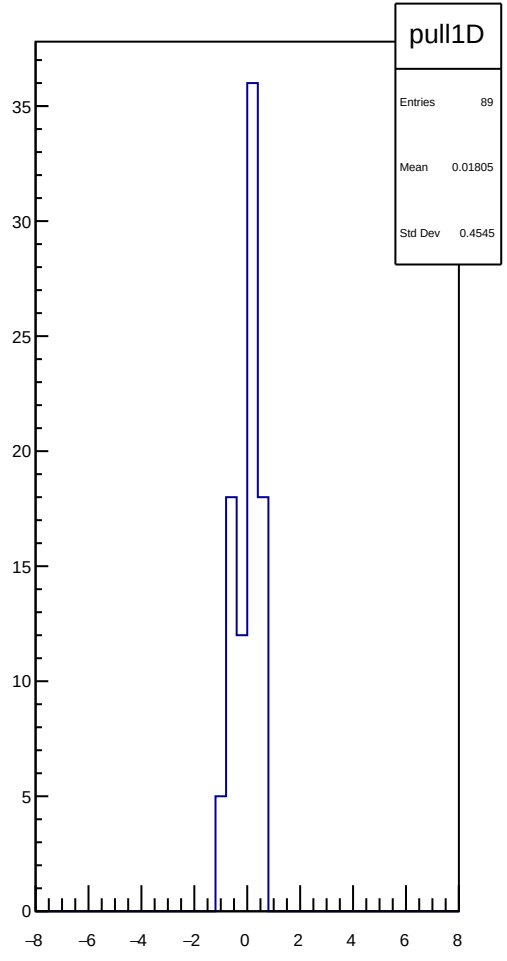

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 236.3 / 88
p0 −0.281 ± 0.01434
pull
Entries 89
Mean 256.4
Std Dev 190.9
pull1D
Entries 89
Mean −0.08748
Std Dev 1.627

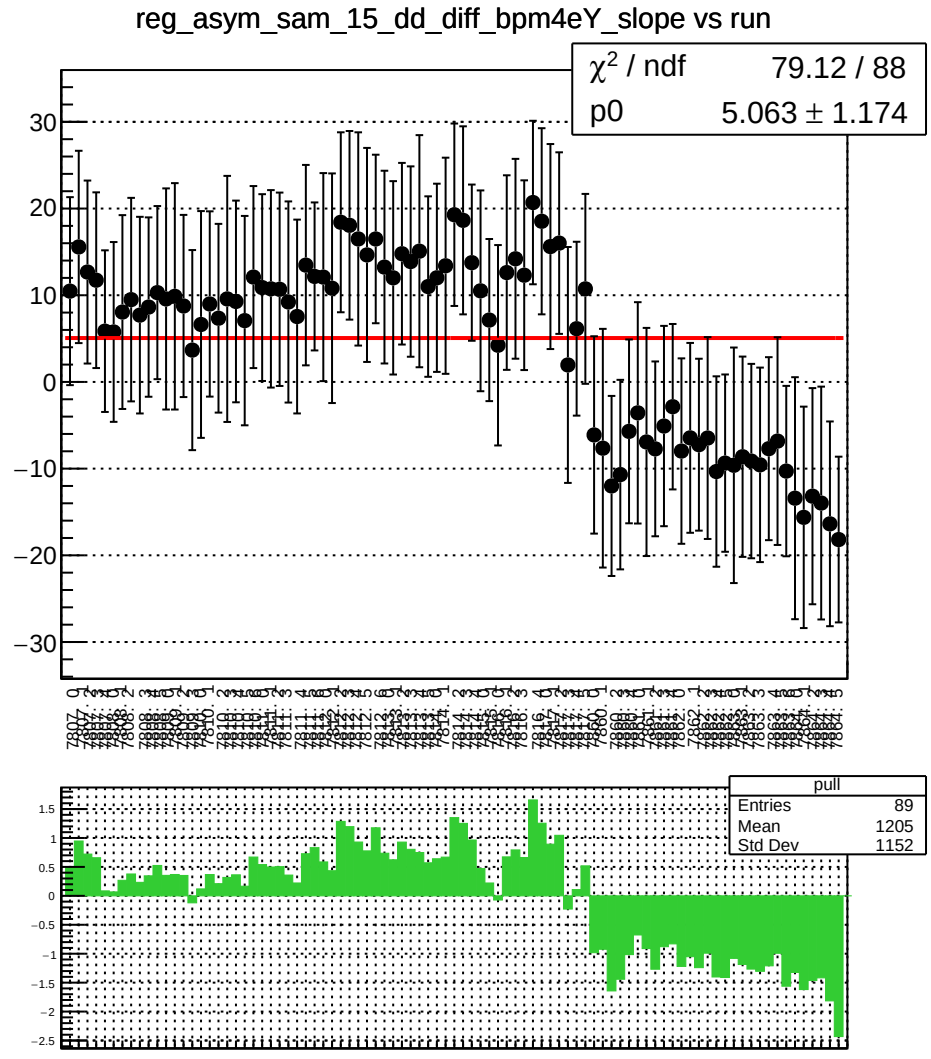

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 18.31 / 88
p0 −3.824 ± 1.012
pull
Entries 89
Mean −920.1
Std Dev 975.5

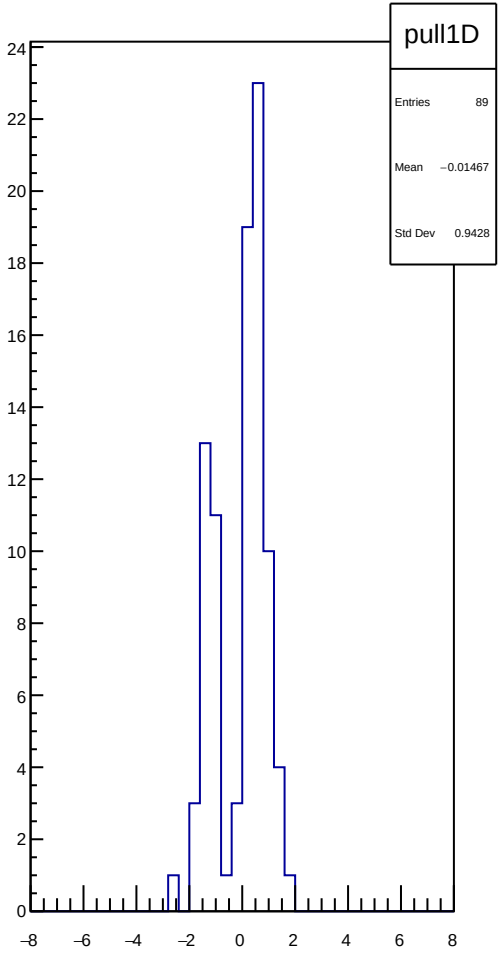

pull1D
Entries 89
Mean −0.007296
Std Dev 0.4535

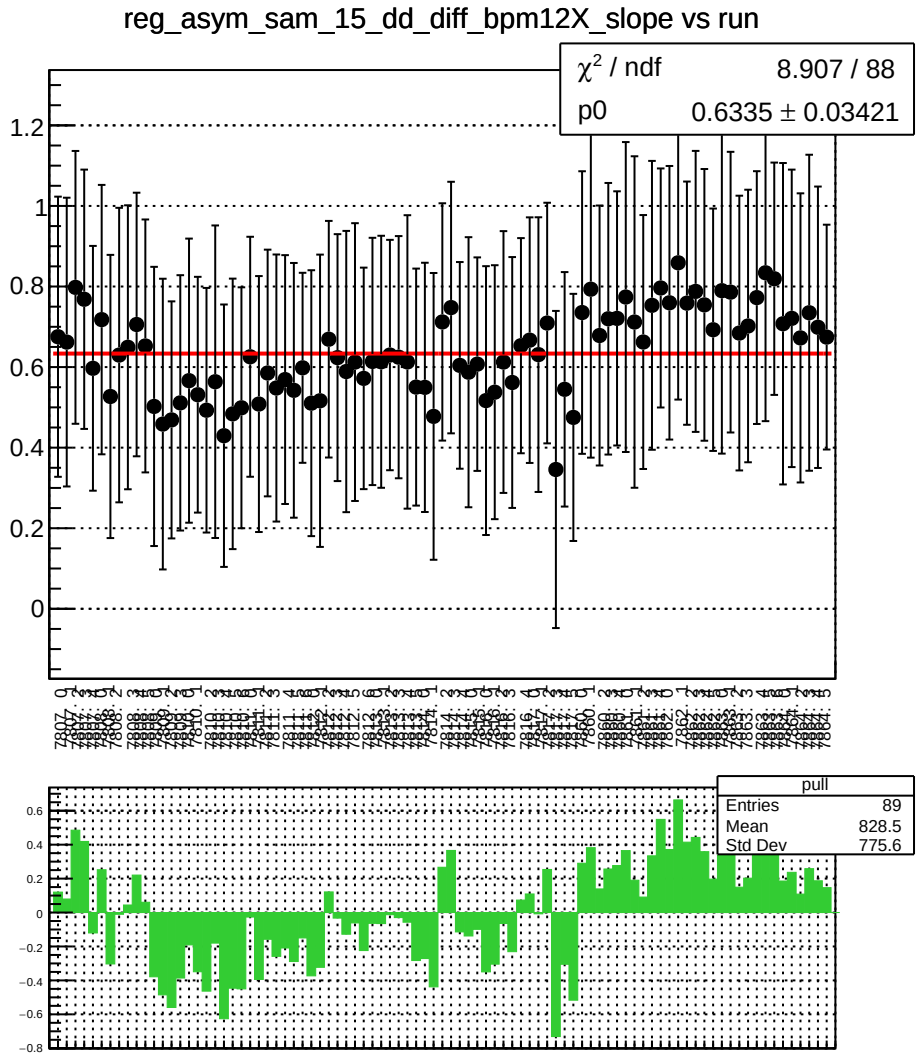

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.53 / 88
p0 −96.07 ± 1.029
pull
Entries 89
Mean 3647
Std Dev 3595
pull1D
Entries 89
Mean 0.004699
Std Dev 0.9333

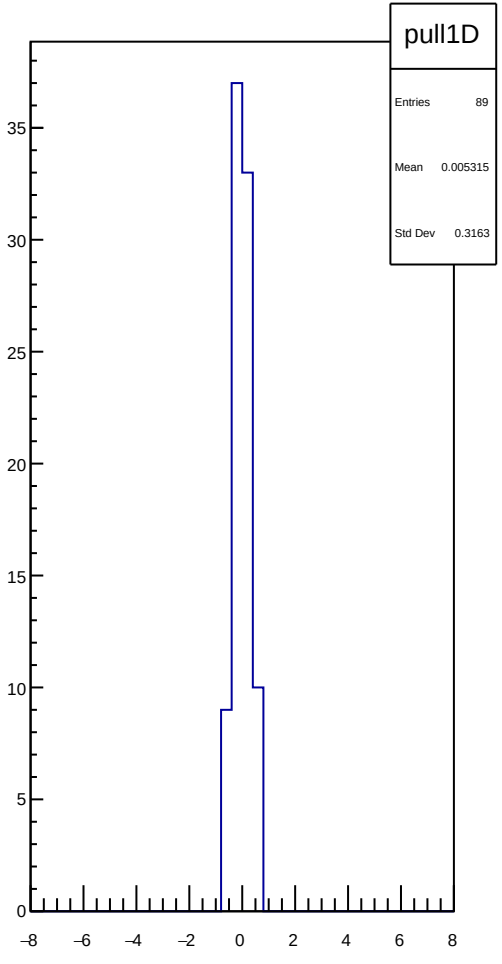

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.41 / 88
p0 −5.19 ± 0.9121
pull
Entries 89
Mean −345.5
Std Dev 400.2

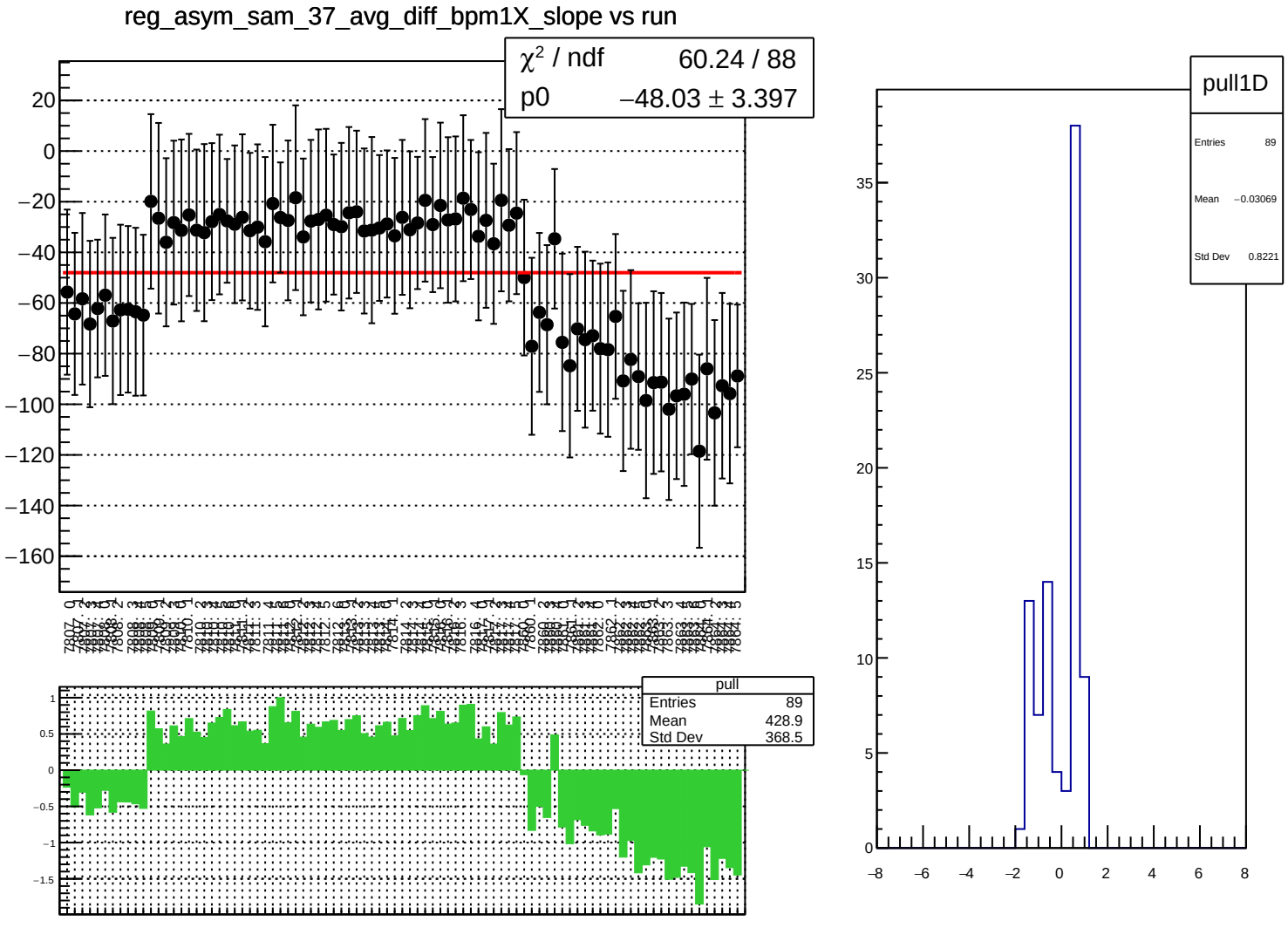

pull1D
Entries 89
Mean 0.01805
Std Dev 0.4545

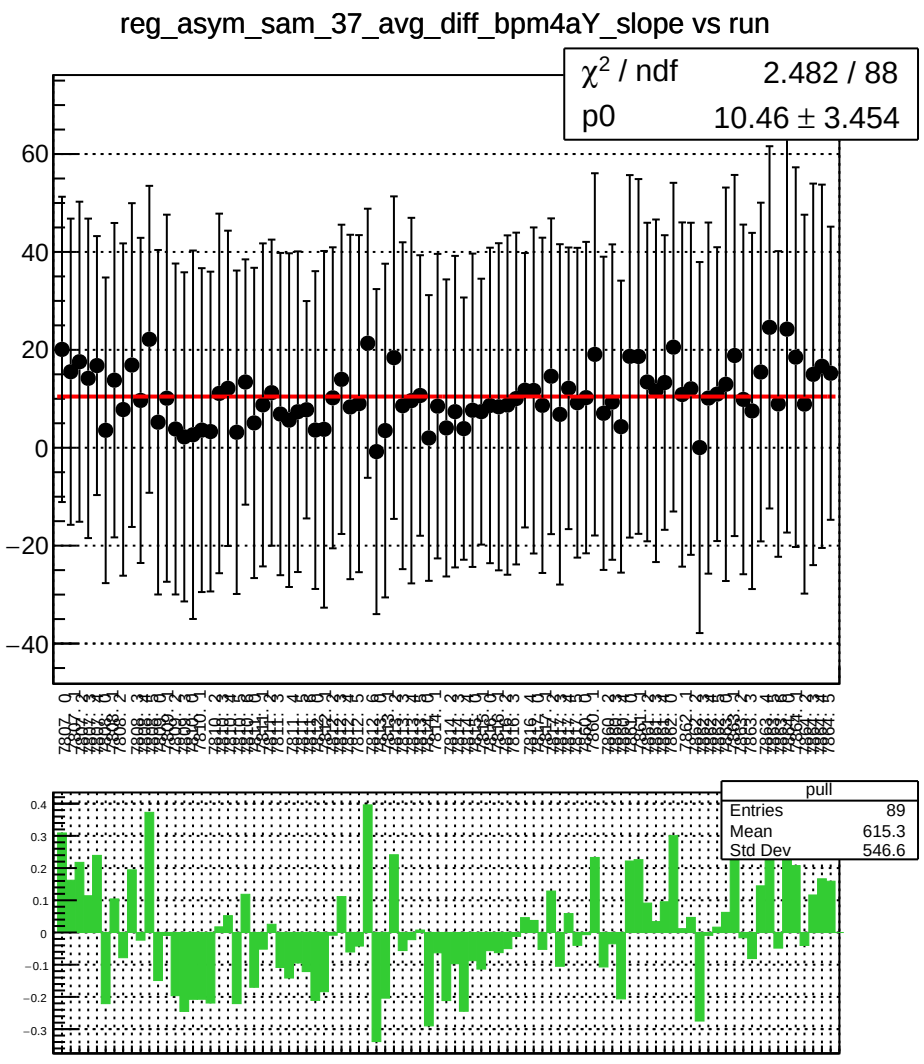

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.12 / 88
p0 5.063 ± 1.174
pull
Entries 89
Mean 1205
Std Dev 1152

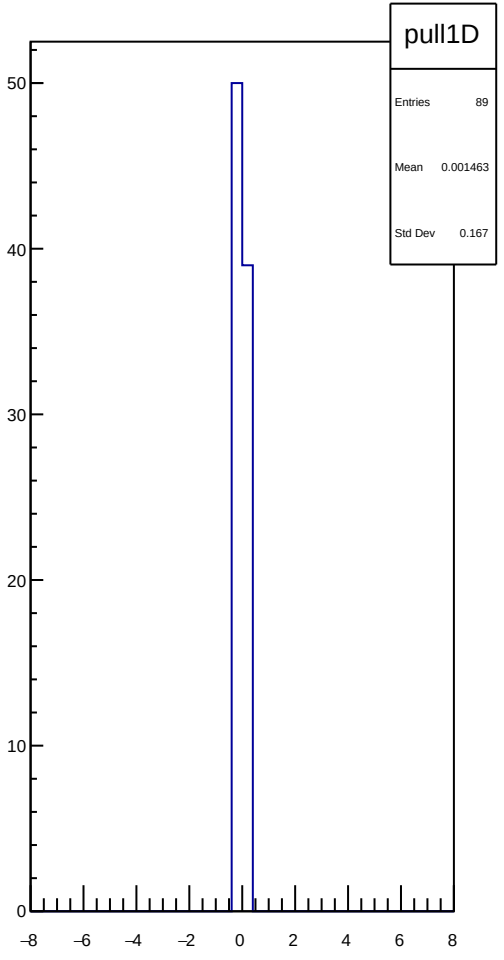

pull1D
Entries 89
Mean −0.01467
Std Dev 0.9428

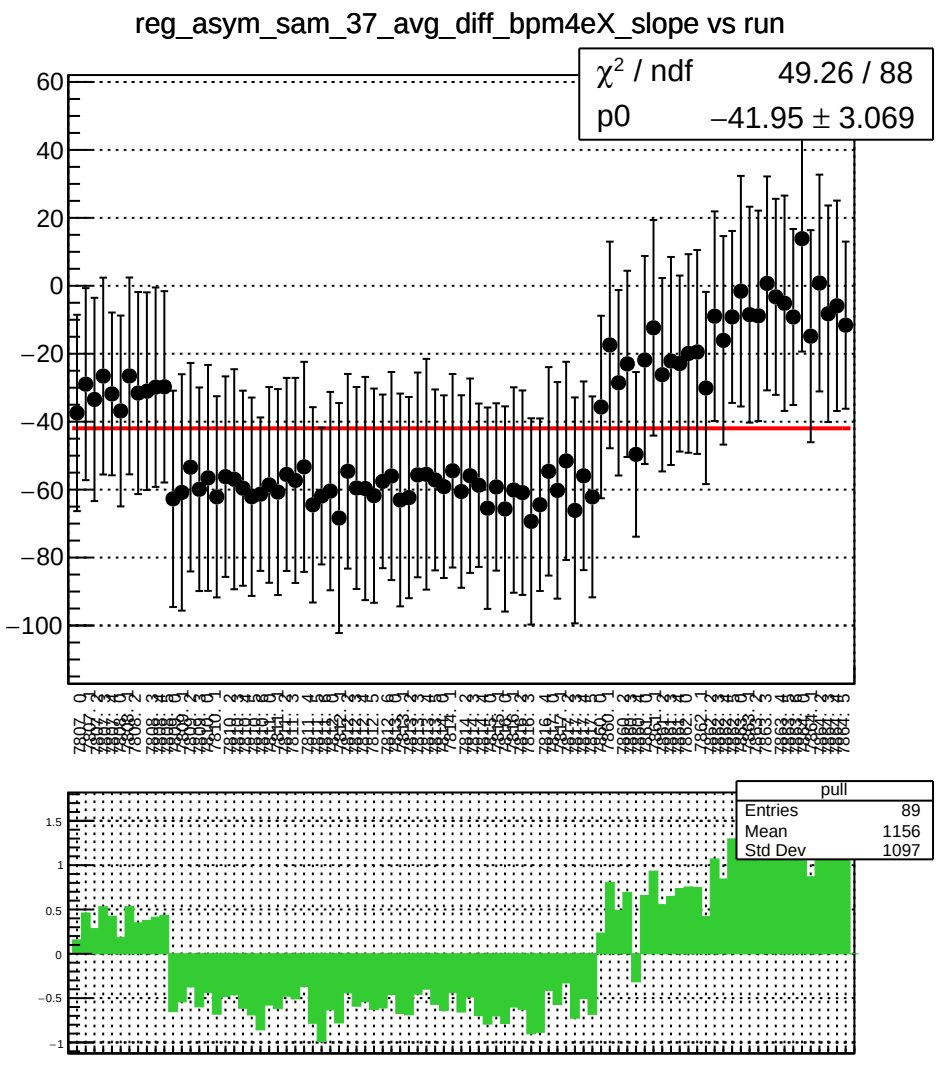

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 8.907 / 88
p0 0.6335 ± 0.03421
pull
Entries 89
Mean 828.5
Std Dev 775.6

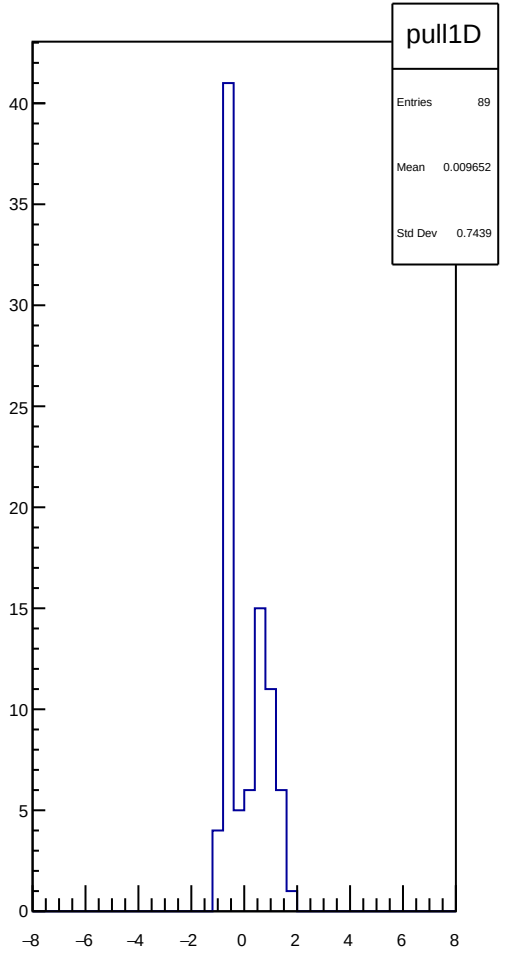

pull1D
Entries 89
Mean 0.005315
Std Dev 0.3163

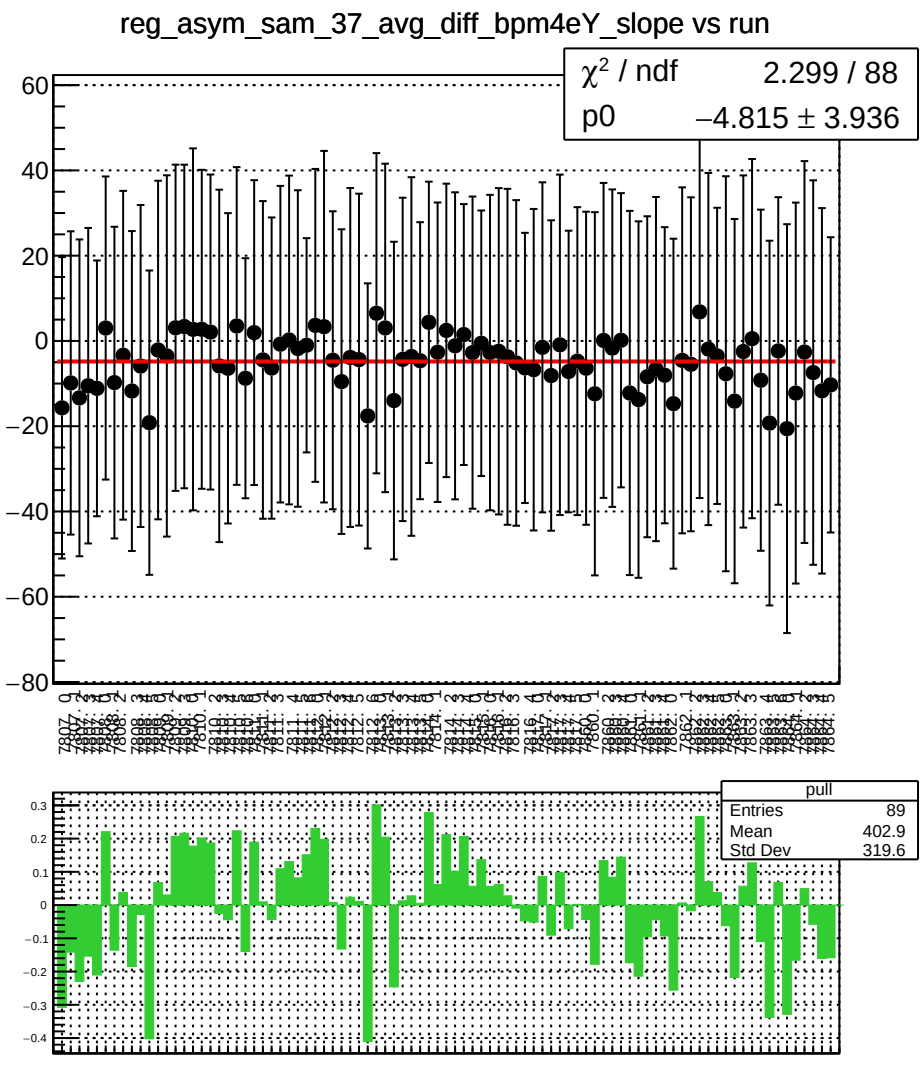

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 60.24 / 88
p0 −48.03 ± 3.397
pull
Entries 89
Mean 428.9
Std Dev 368.5
pull1D
Entries 89
Mean −0.03069
Std Dev 0.8221

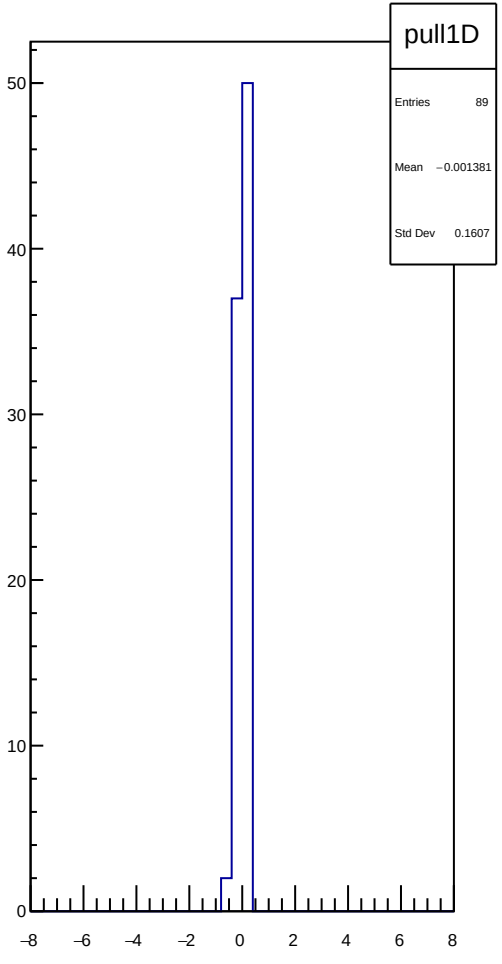

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.482 / 88
p0 10.46 ± 3.454
pull
Entries 89
Mean 615.3
Std Dev 546.6

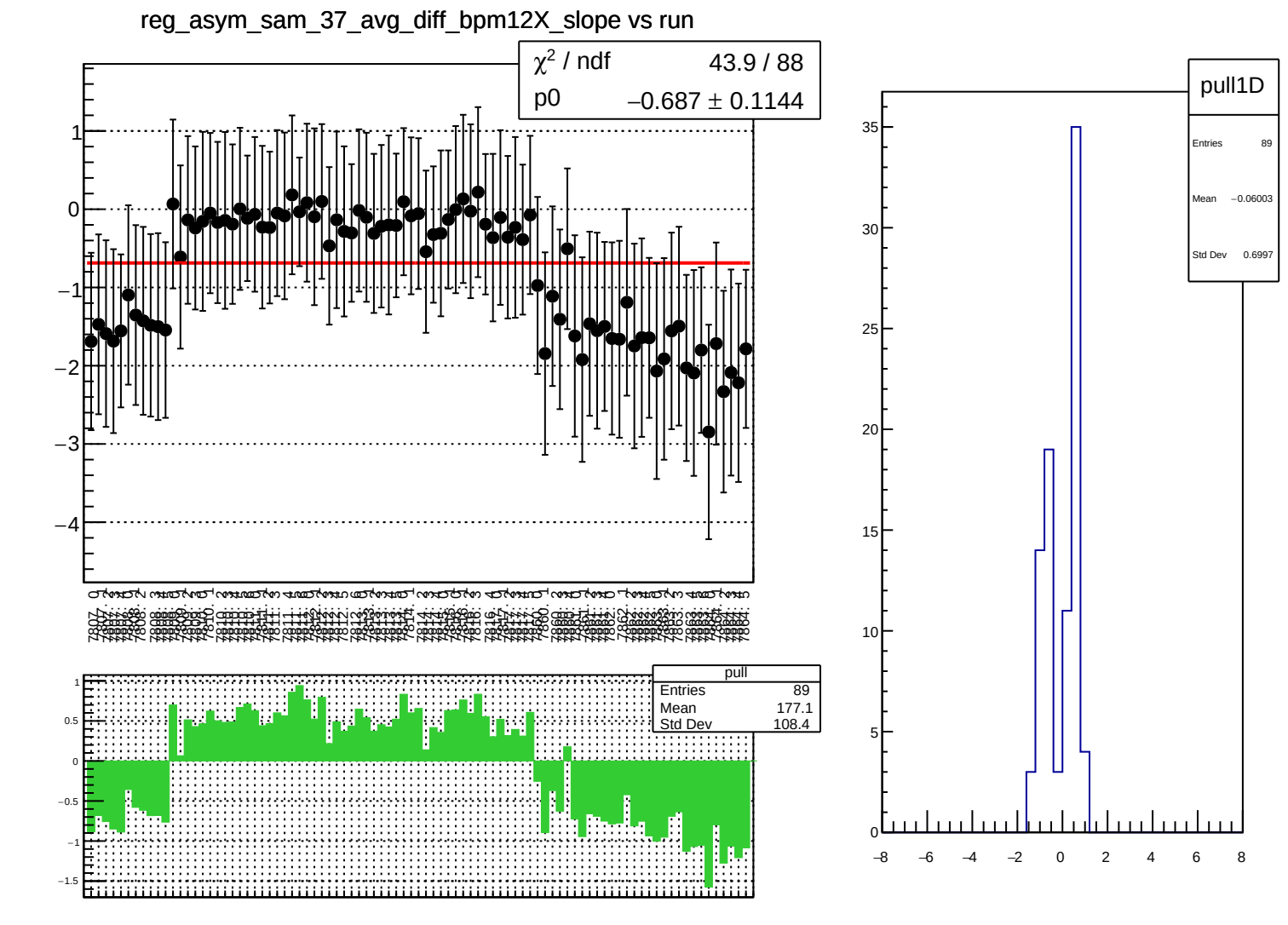

pull1D
Entries 89
Mean 0.001463
Std Dev 0.167

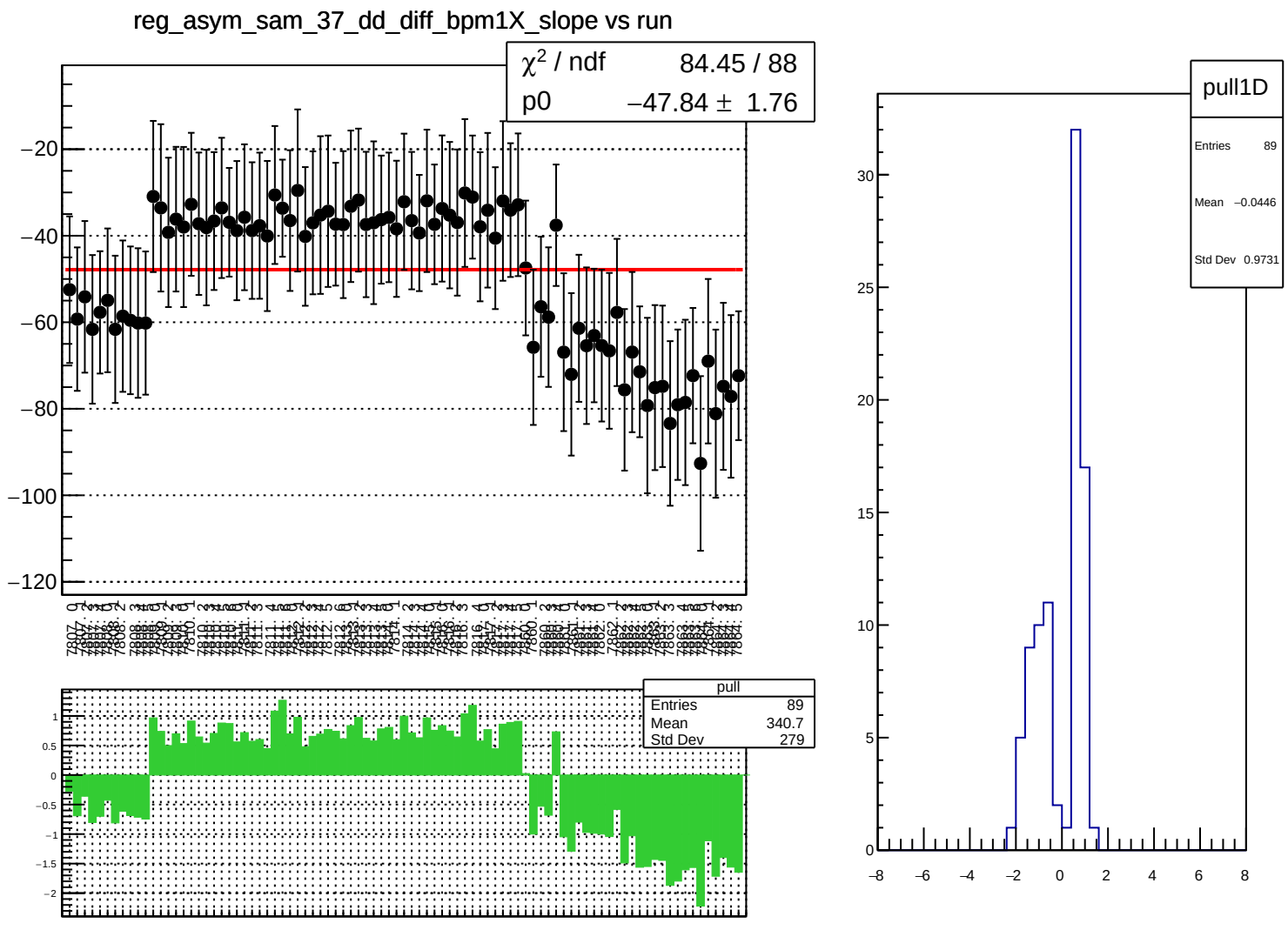

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.26 / 88
p0 −41.95 ± 3.069
pull
Entries 89
Mean 1156
Std Dev 1097

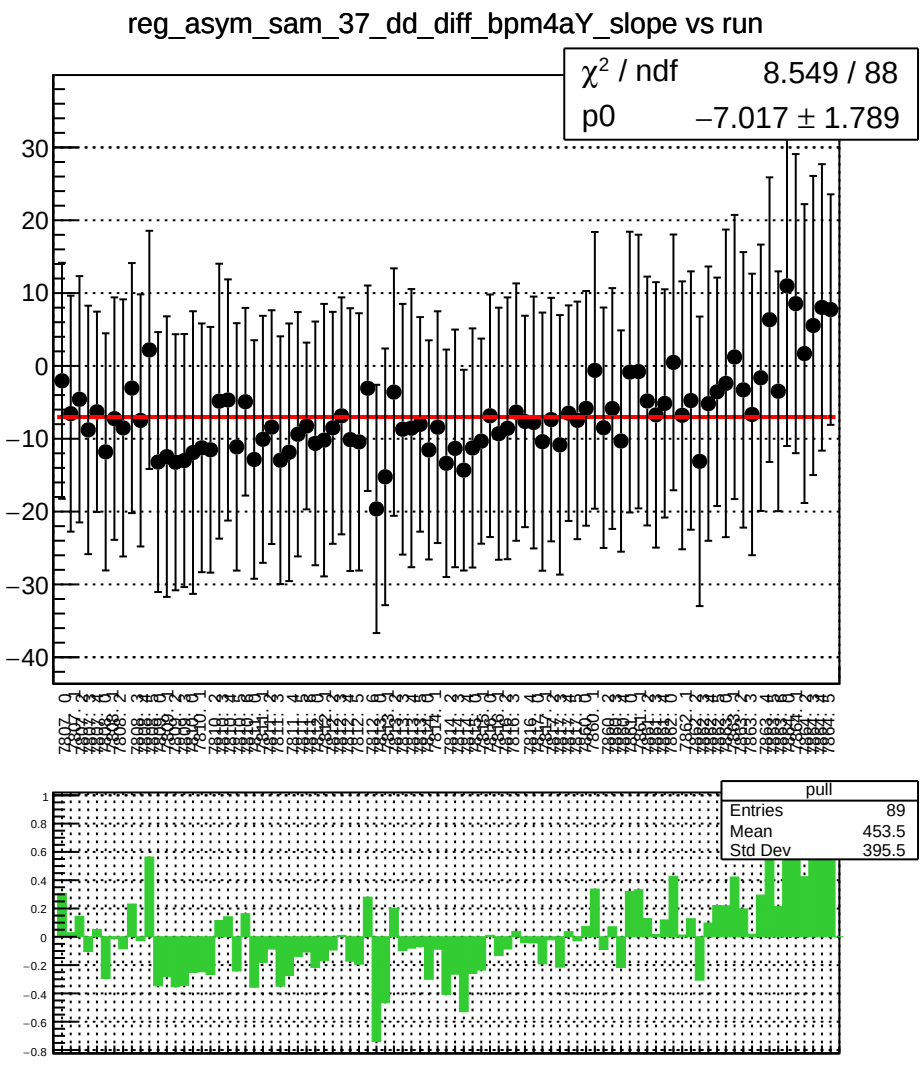

pull1D
Entries 89
Mean 0.009652
Std Dev 0.7439

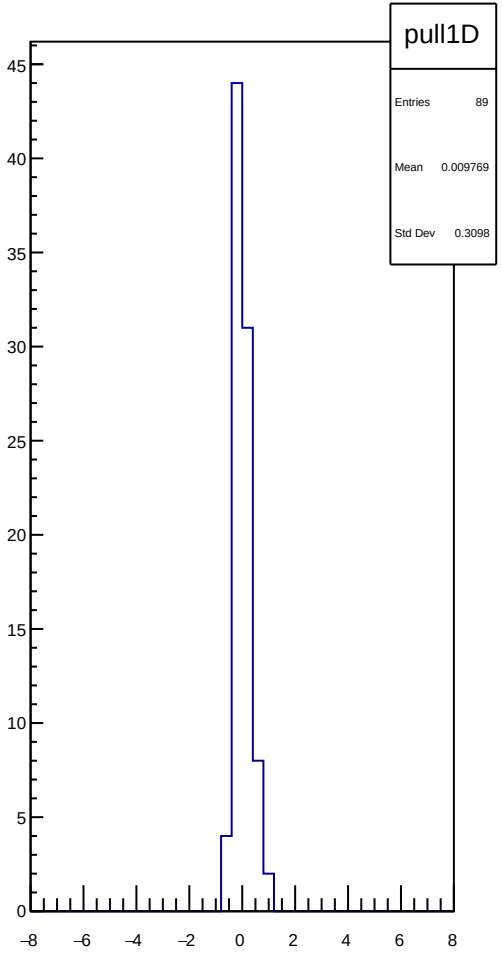

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.299 / 88
p0 −4.815 ± 3.936
pull
Entries 89
Mean 402.9
Std Dev 319.6

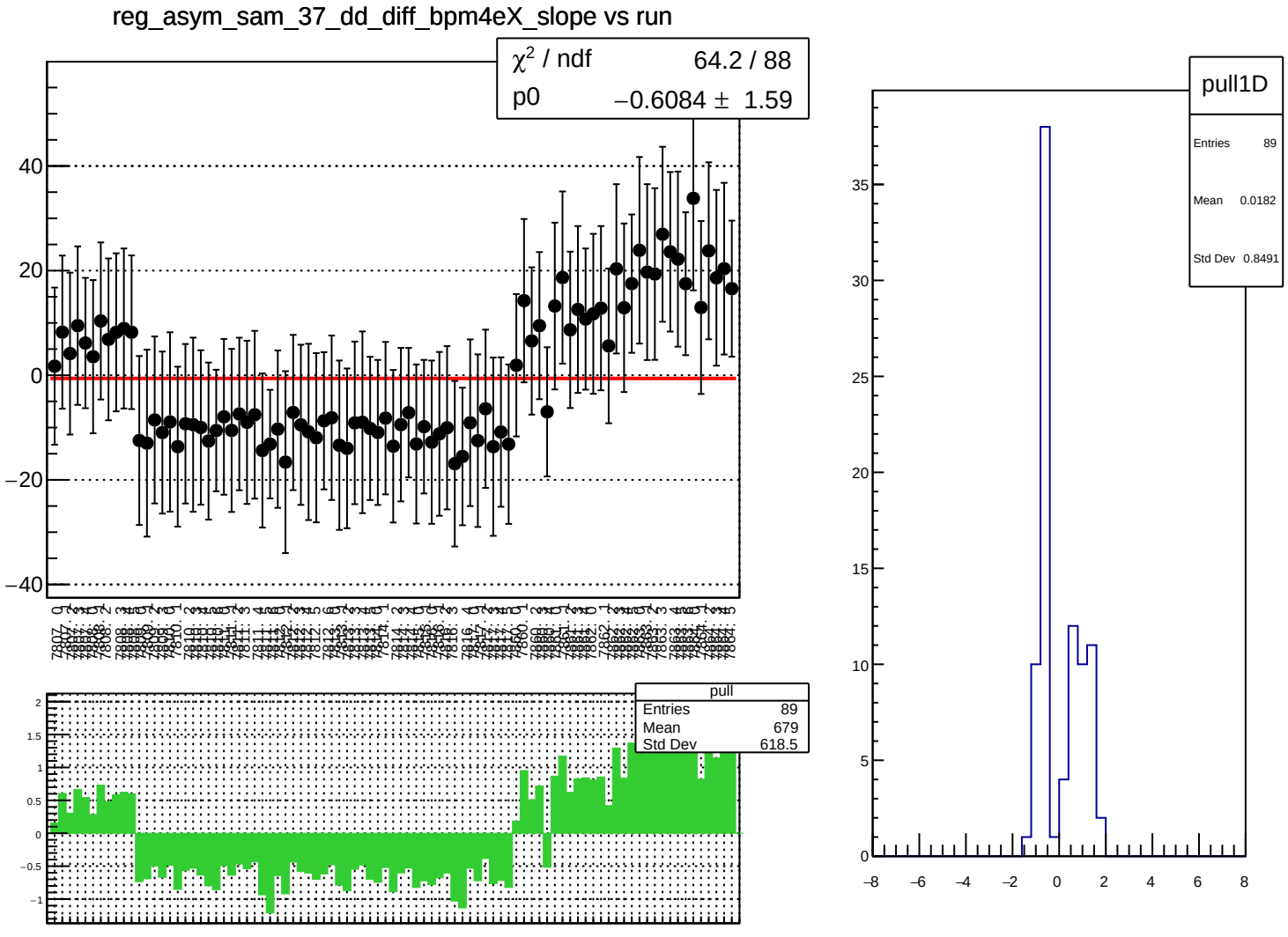

pull1D
Entries 89
Mean −0.001381
Std Dev 0.1607

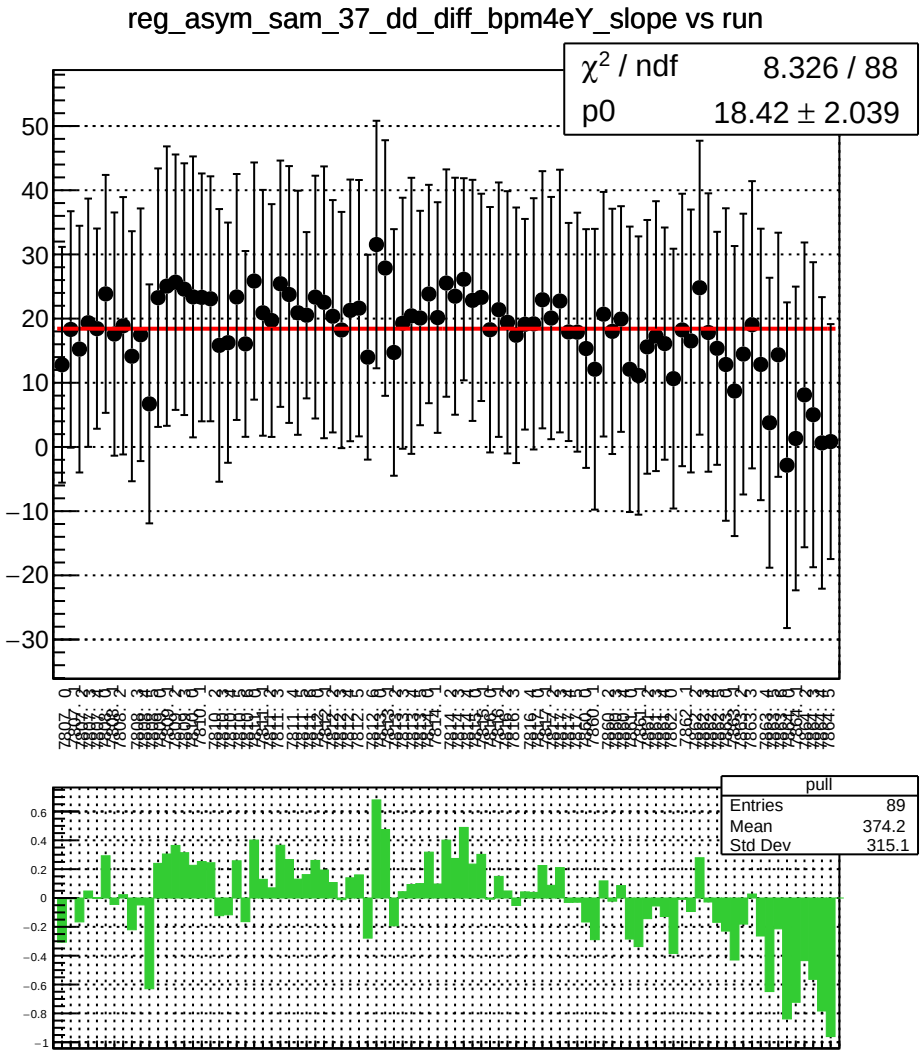

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 43.9 / 88
p0 −0.687 ± 0.1144
pull
Entries 89
Mean 177.1
Std Dev 108.4
pull1D
Entries 89
Mean −0.06003
Std Dev 0.6997

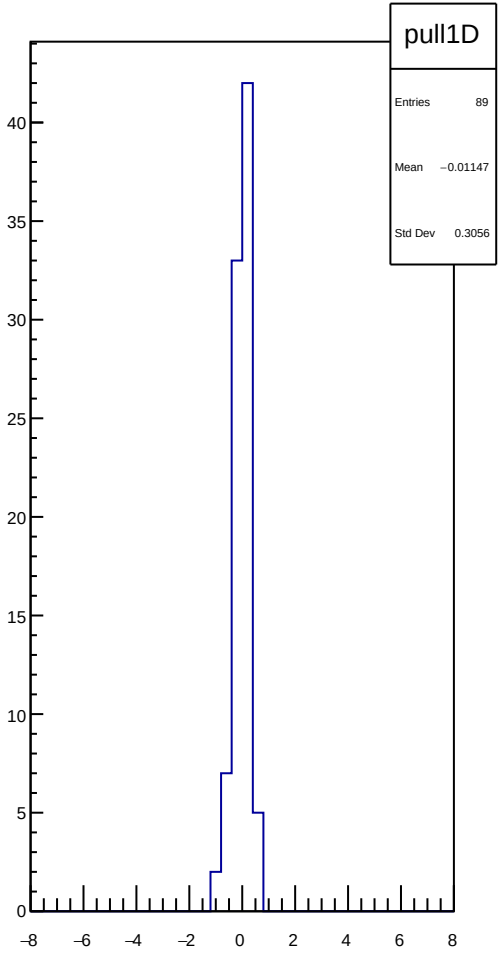

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 84.45 / 88
p0 −47.84 ± 1.76
−20
−40
−60
−80
−100
−120
pull
Entries 89
Mean 340.7
Std Dev 279
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.0446
Std Dev 0.9731
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

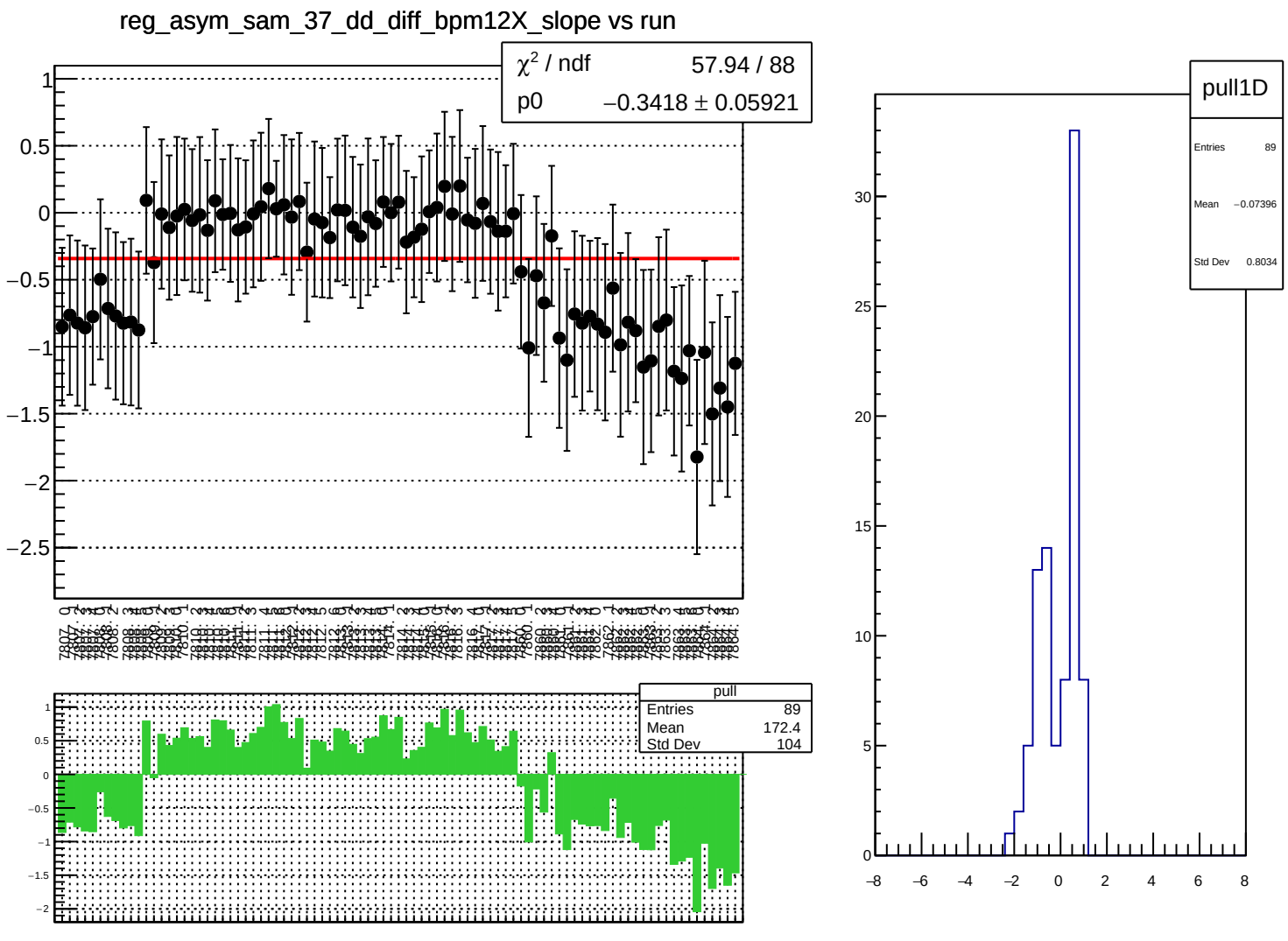

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.549 / 88
p0 −7.017 ± 1.789
pull
Entries 89
Mean 453.5
Std Dev 395.5

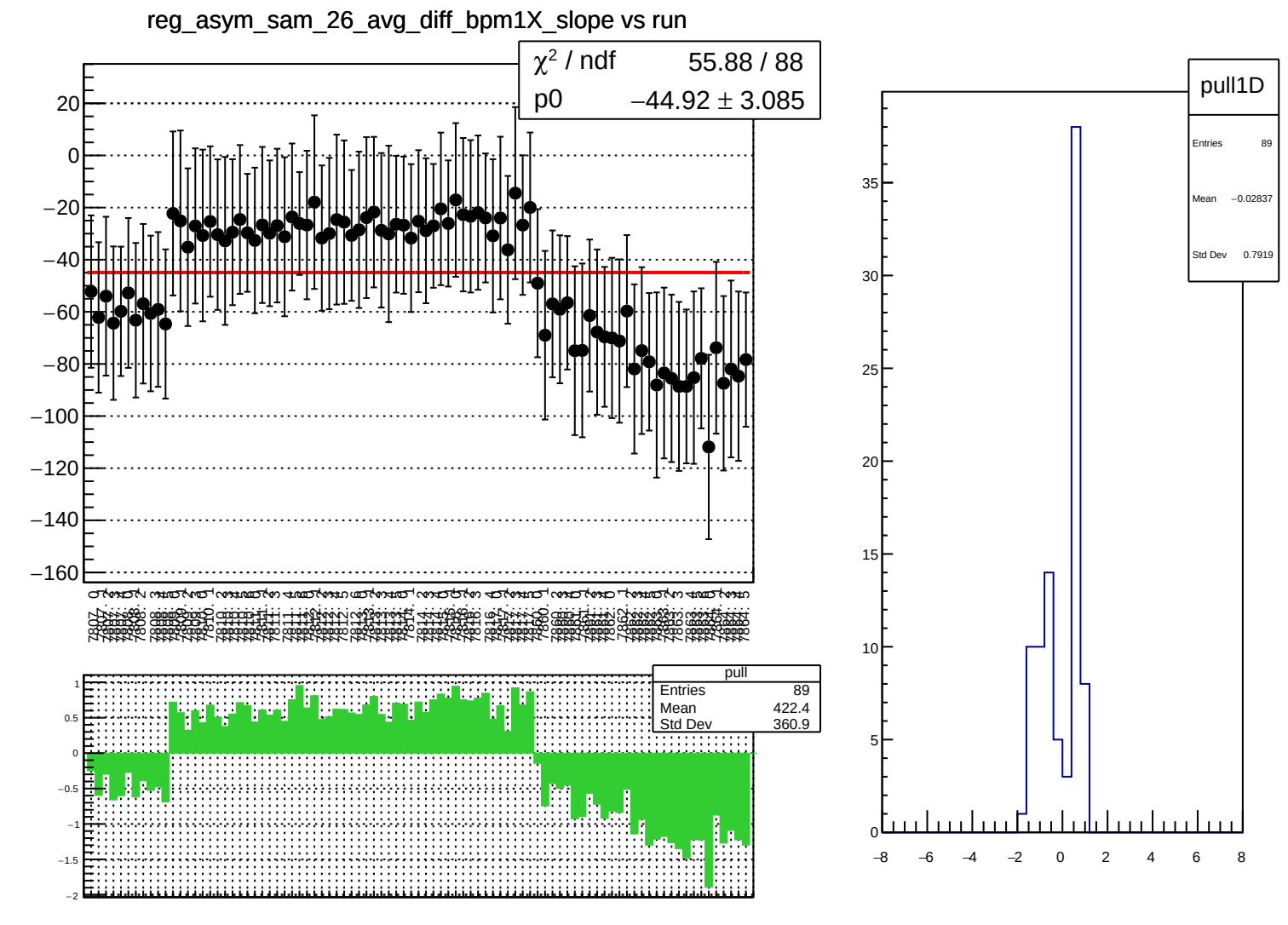

pull1D
Entries 89
Mean 0.009769
Std Dev 0.3098

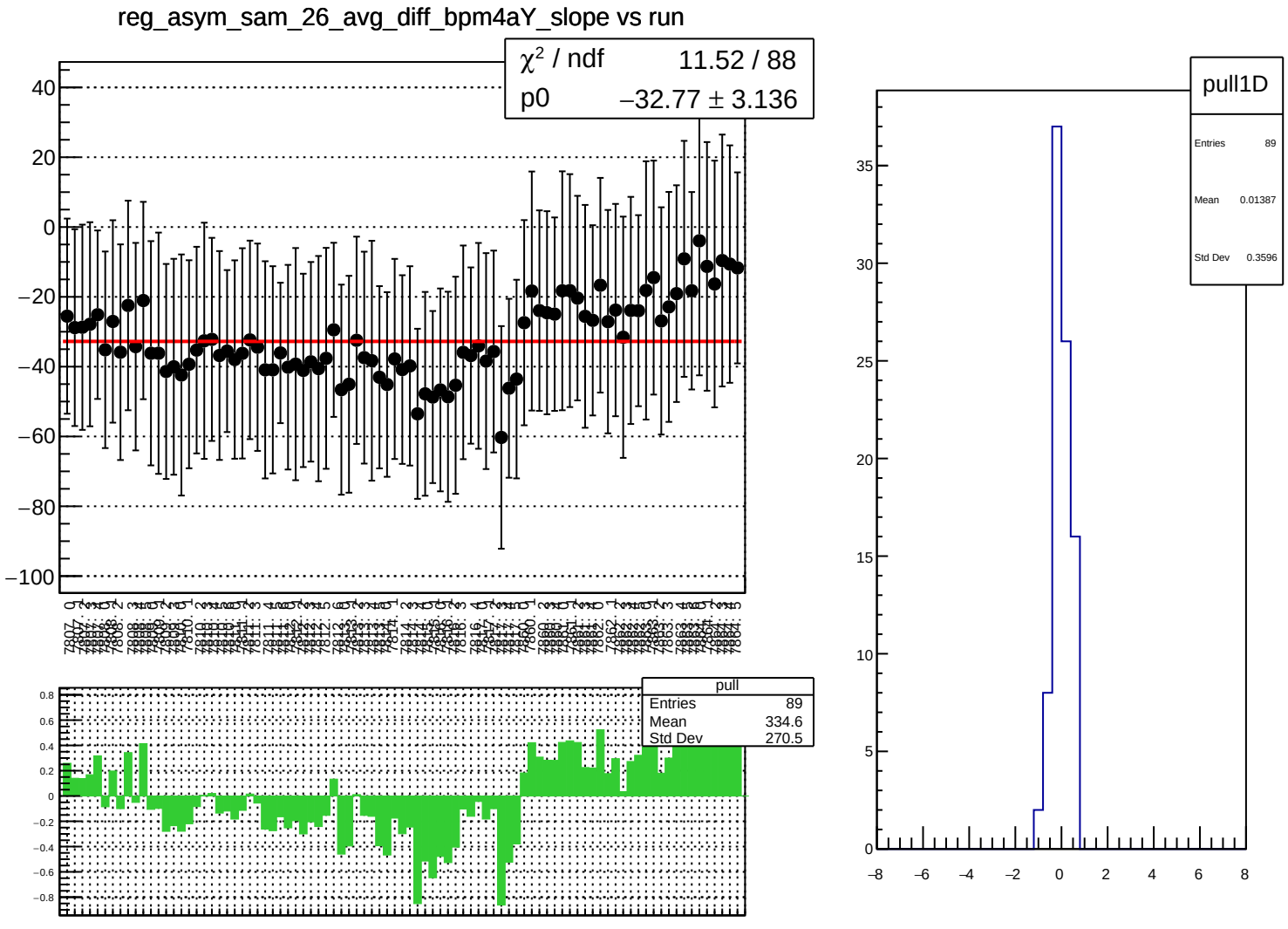

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.2 / 88
p0 −0.6084 ± 1.59
pull
Entries 89
Mean 679
Std Dev 618.5
pull1D
Entries 89
Mean 0.0182
Std Dev 0.8491

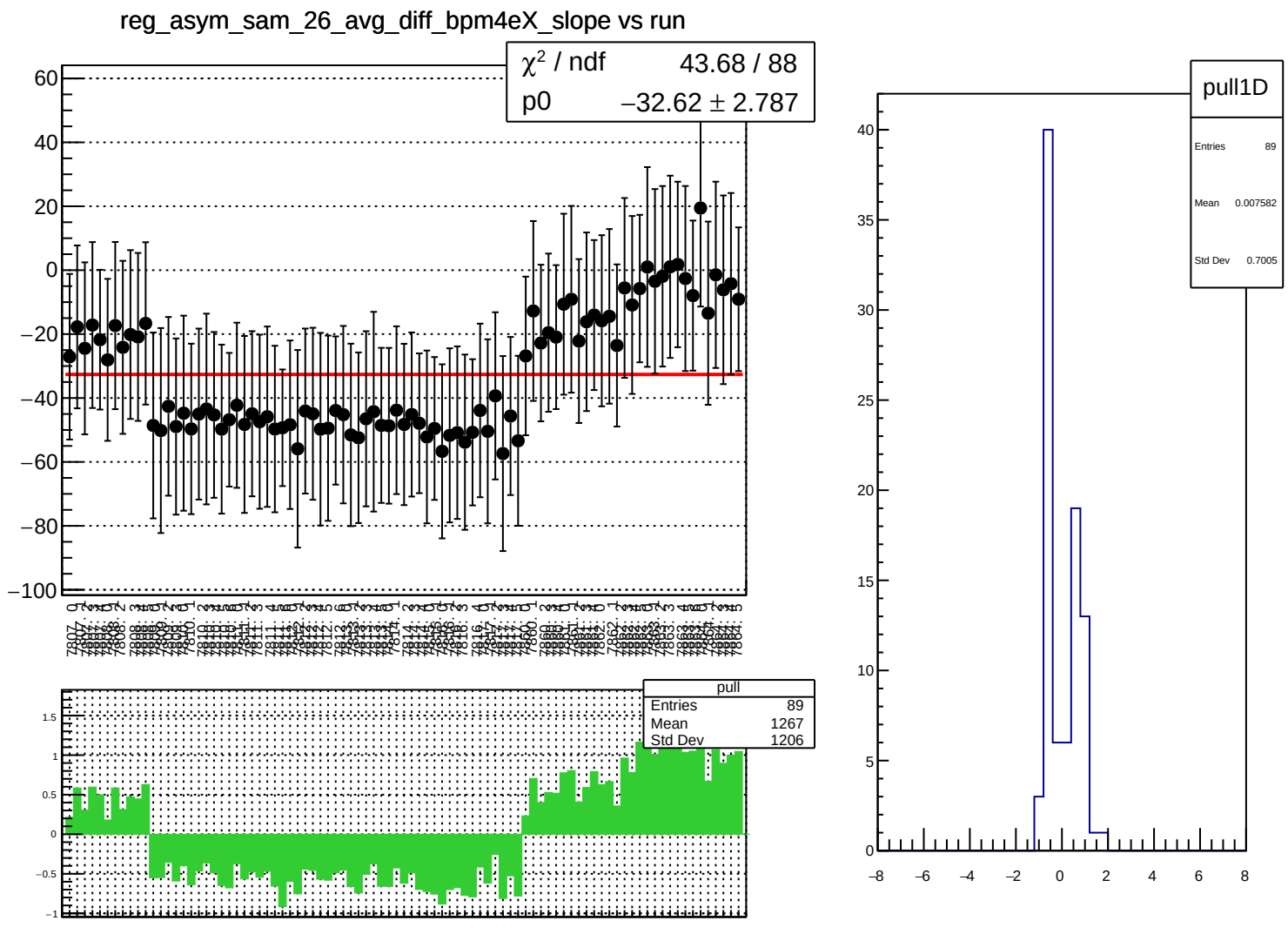

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.326 / 88
p0 18.42 ± 2.039
pull
Entries 89
Mean 374.2
Std Dev 315.1

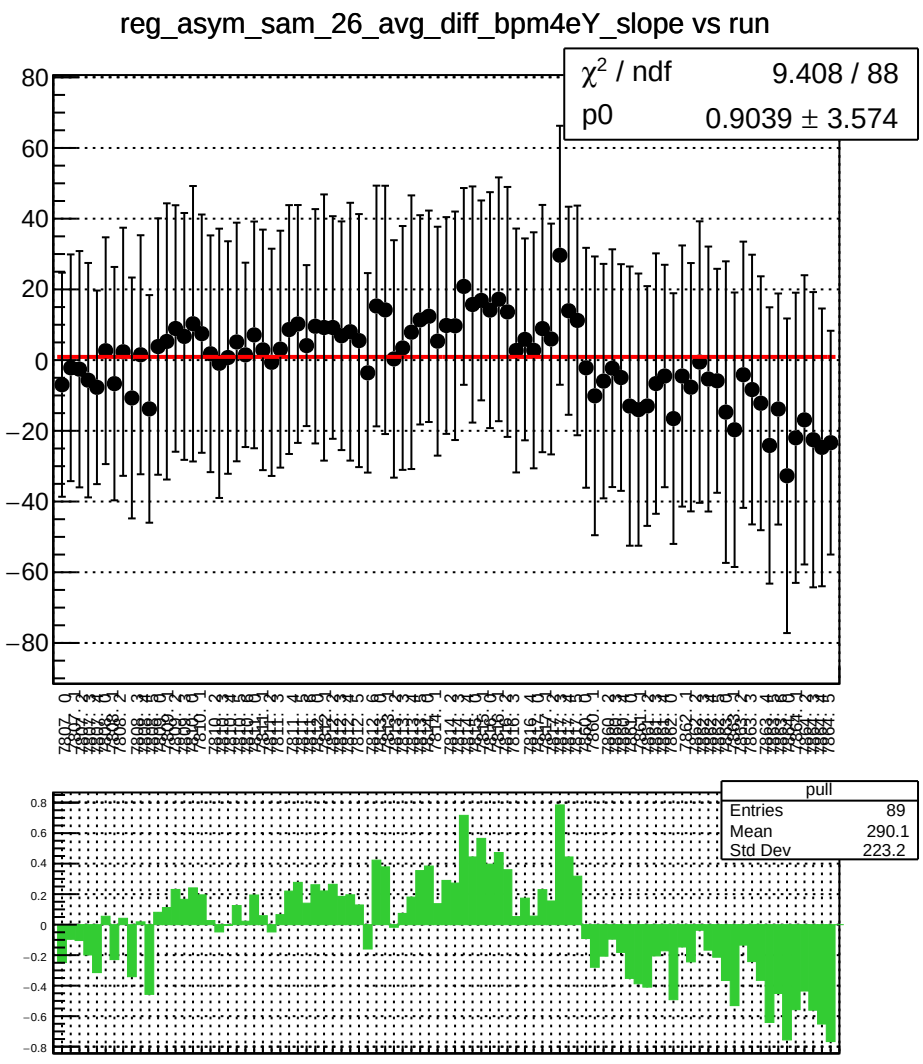

pull1D
Entries 89
Mean −0.01147
Std Dev 0.3056

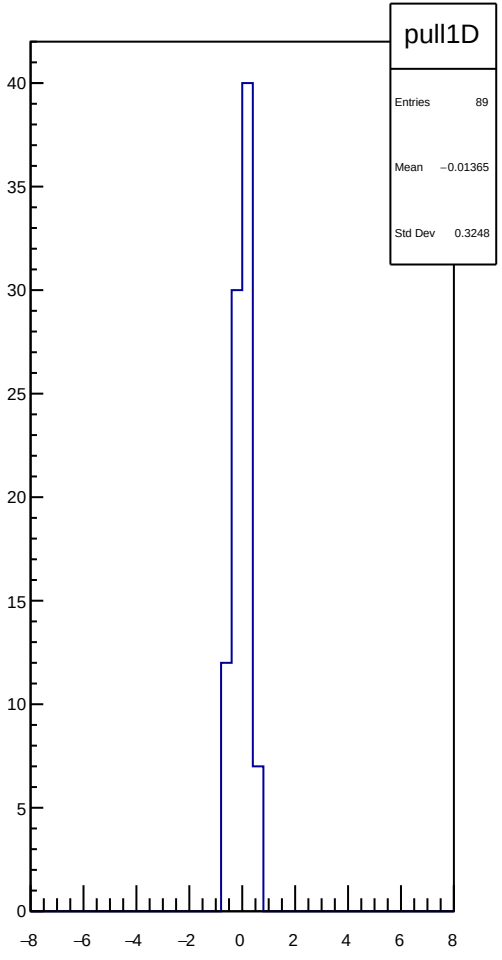

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 57.94 / 88
p0 −0.3418 ± 0.05921
pull
Entries 89
Mean 172.4
Std Dev 104
pull1D
Entries 89
Mean −0.07396
Std Dev 0.8034

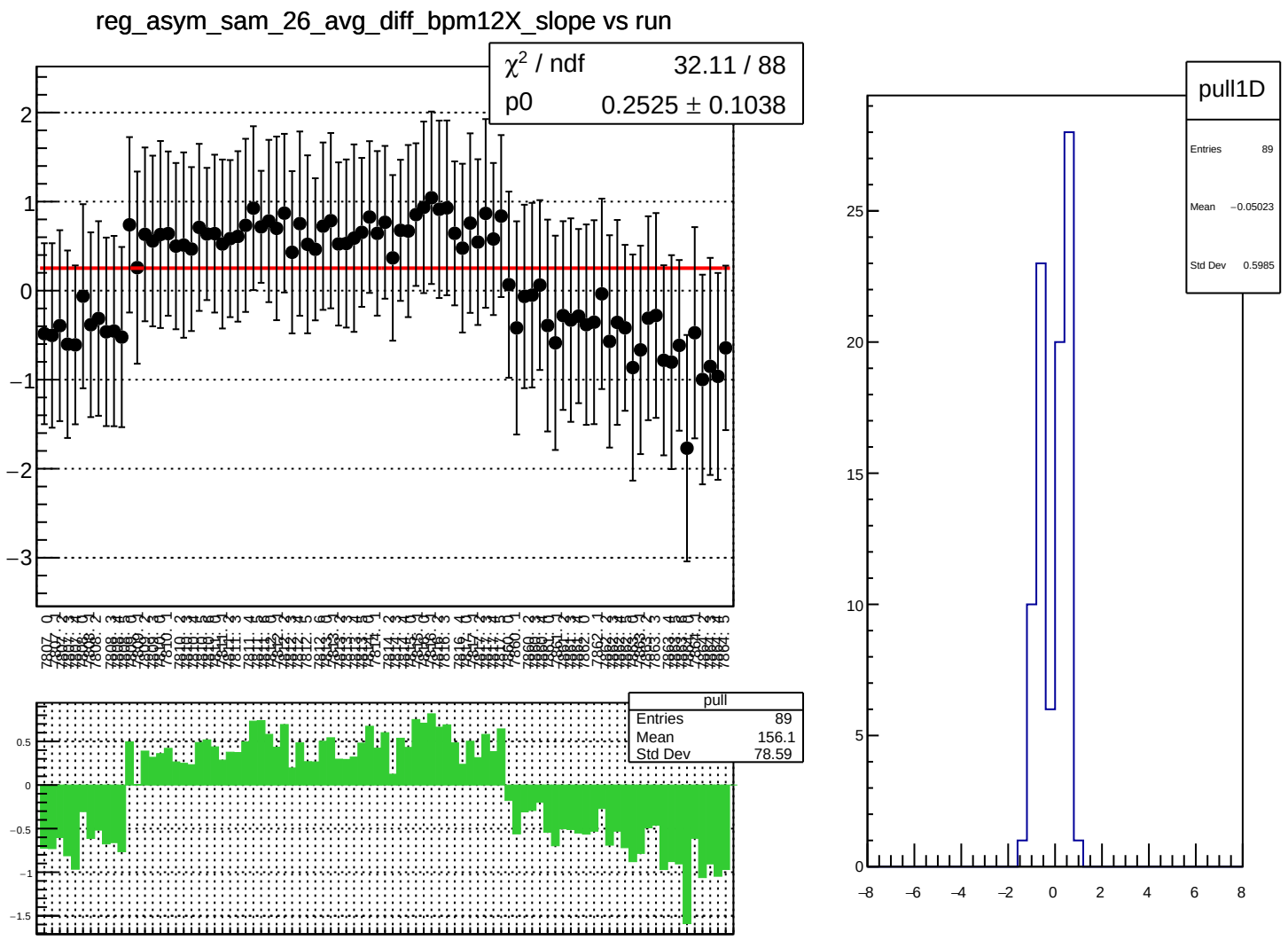

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 55.88 / 88
p0 −44.92 ± 3.085
pull
Entries 89
Mean 422.4
Std Dev 360.9
pull1D
Entries 89
Mean −0.02837
Std Dev 0.7919

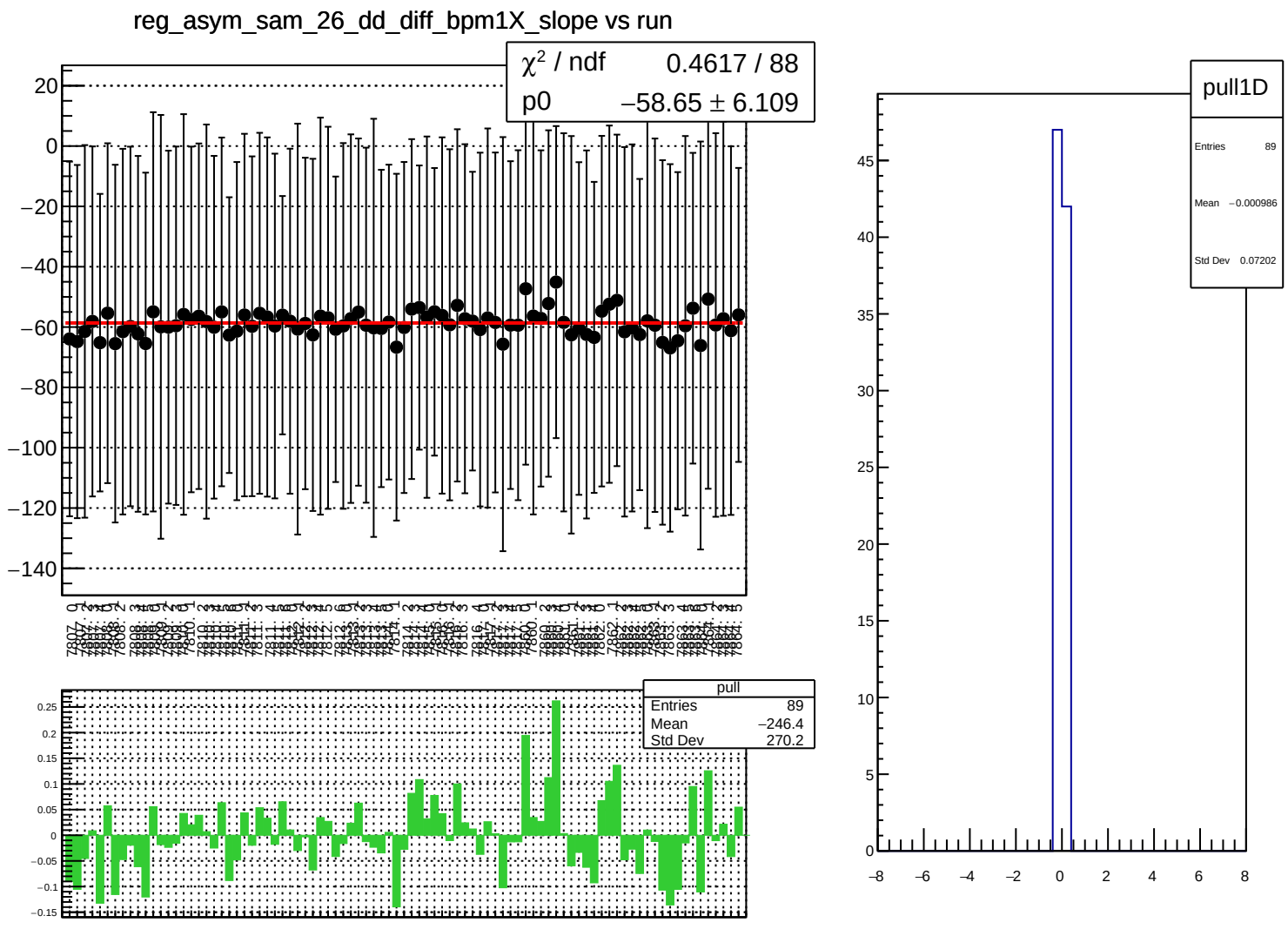

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.52 / 88
p0 −32.77 ± 3.136
pull
Entries 89
Mean 334.6
Std Dev 270.5
pull1D
Entries 89
Mean 0.01387
Std Dev 0.3596

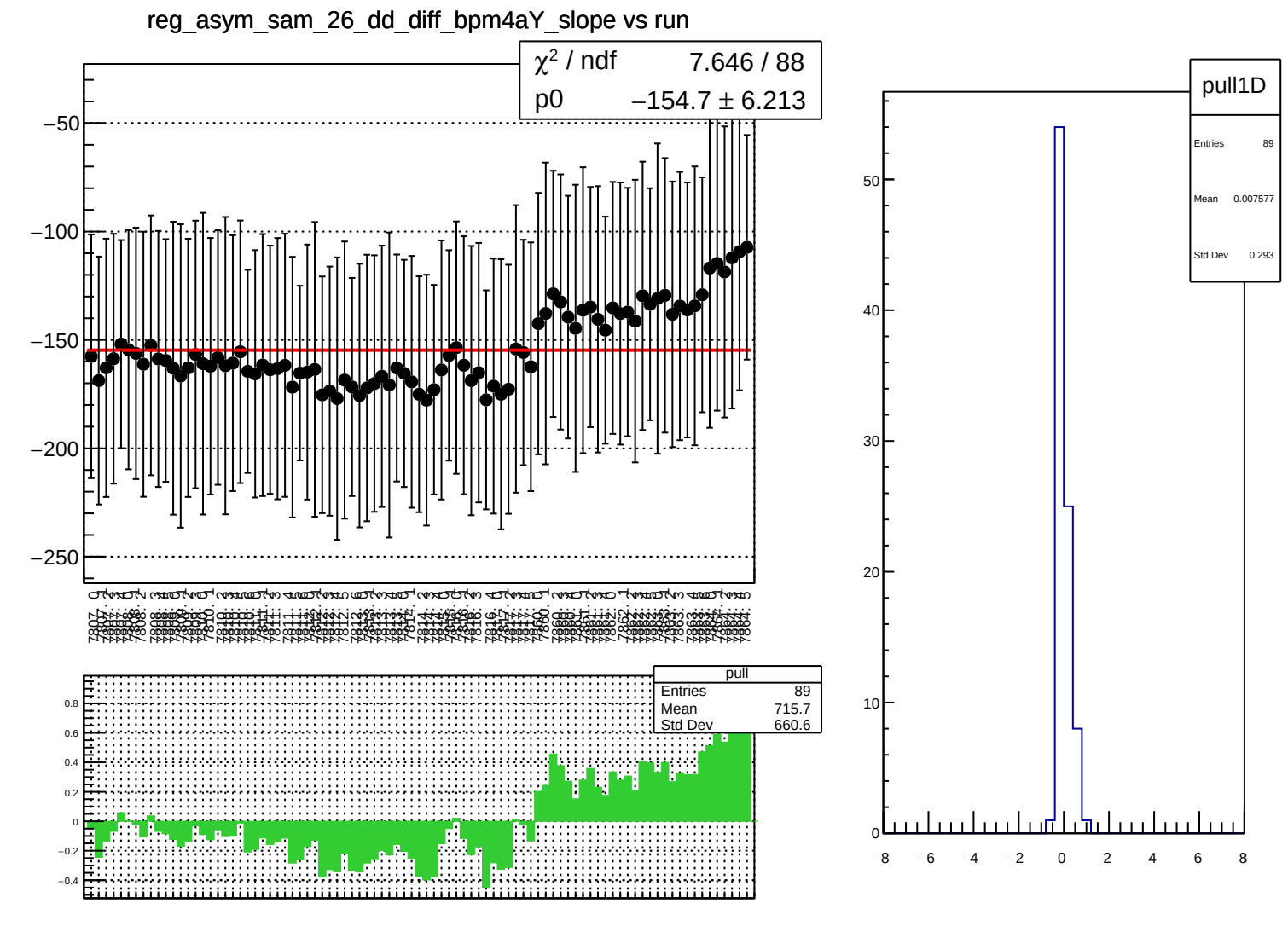

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.68 / 88
p0 −32.62 ± 2.787
pull
Entries 89
Mean 1267
Std Dev 1206
pull1D
Entries 89
Mean 0.007582
Std Dev 0.7005

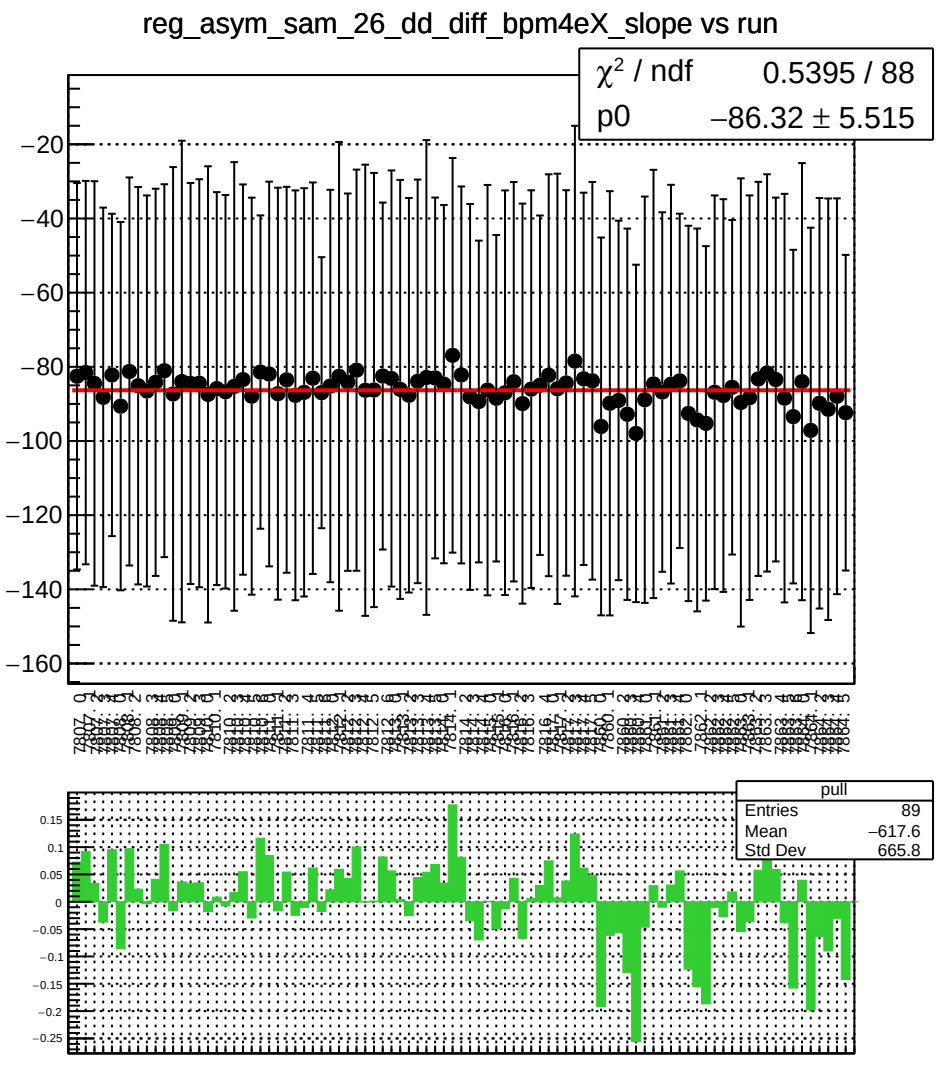

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.408 / 88
p0 0.9039 ± 3.574
pull
Entries 89
Mean 290.1
Std Dev 223.2

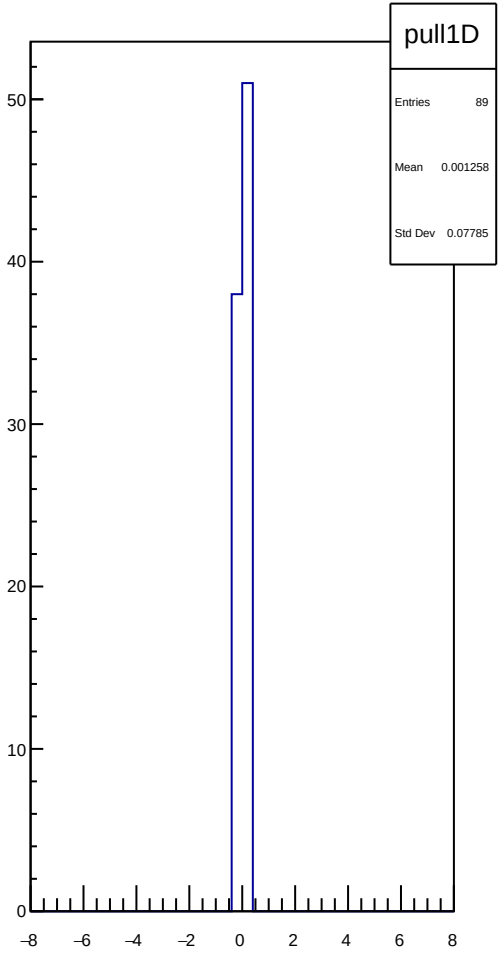

pull1D
Entries 89
Mean −0.01365
Std Dev 0.3248

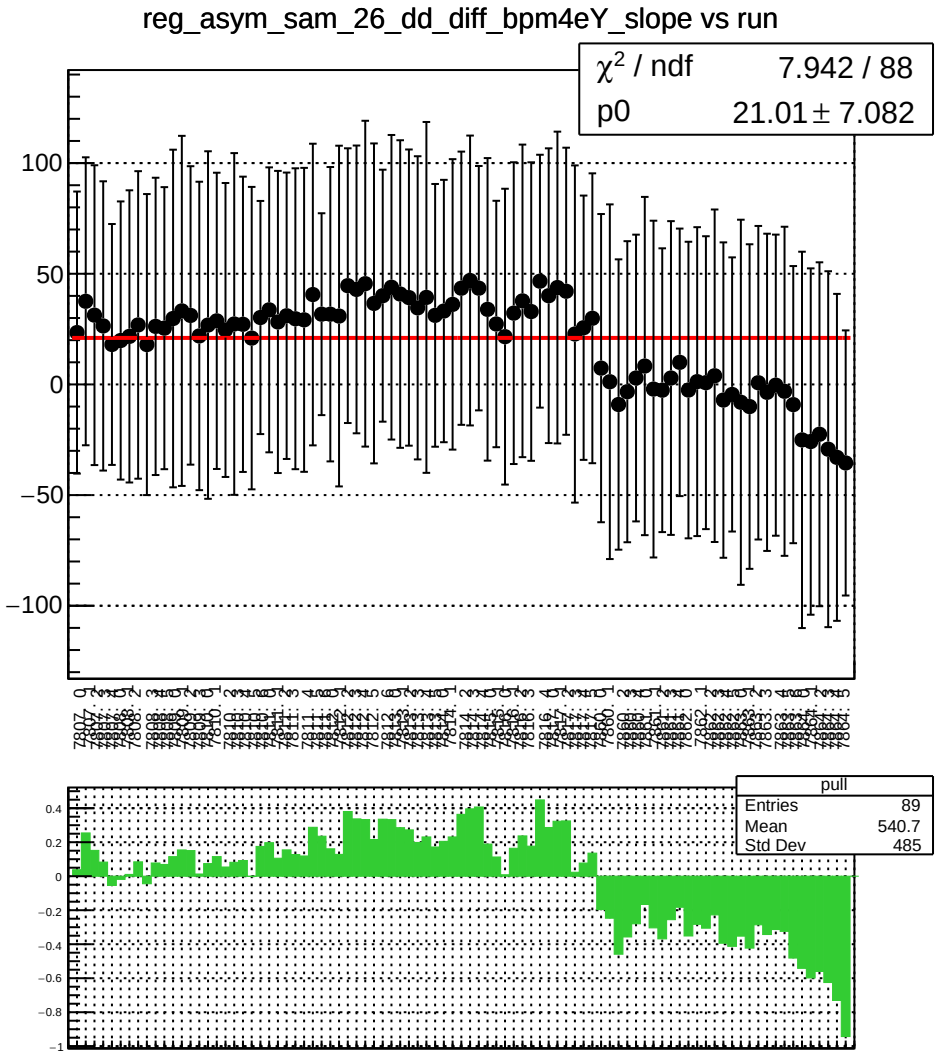

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 32.11 / 88
p0 0.2525 ± 0.1038
pull
Entries 89
Mean 156.1
Std Dev 78.59
pull1D
Entries 89
Mean −0.05023
Std Dev 0.5985

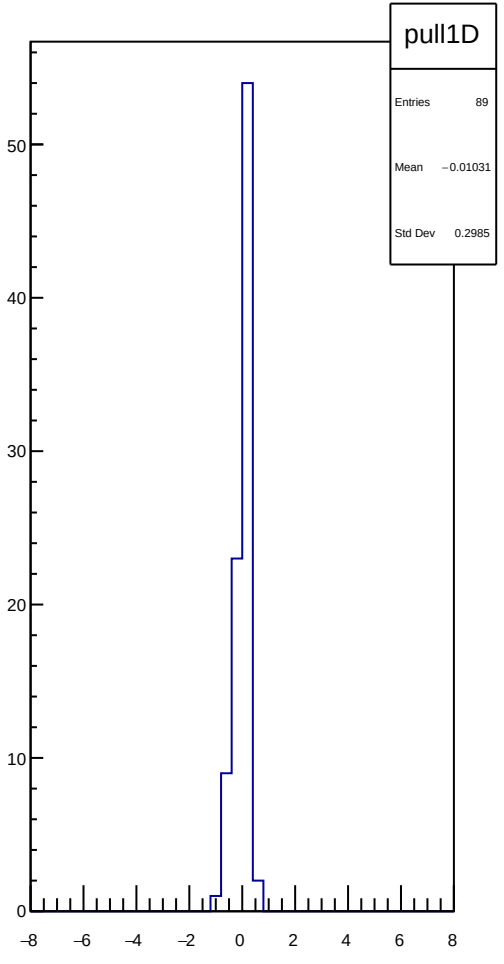

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.4617 / 88
p0 −58.65 ± 6.109
pull
Entries 89
Mean −246.4
Std Dev 270.2
pull1D
Entries 89
Mean −0.000986
Std Dev 0.07202

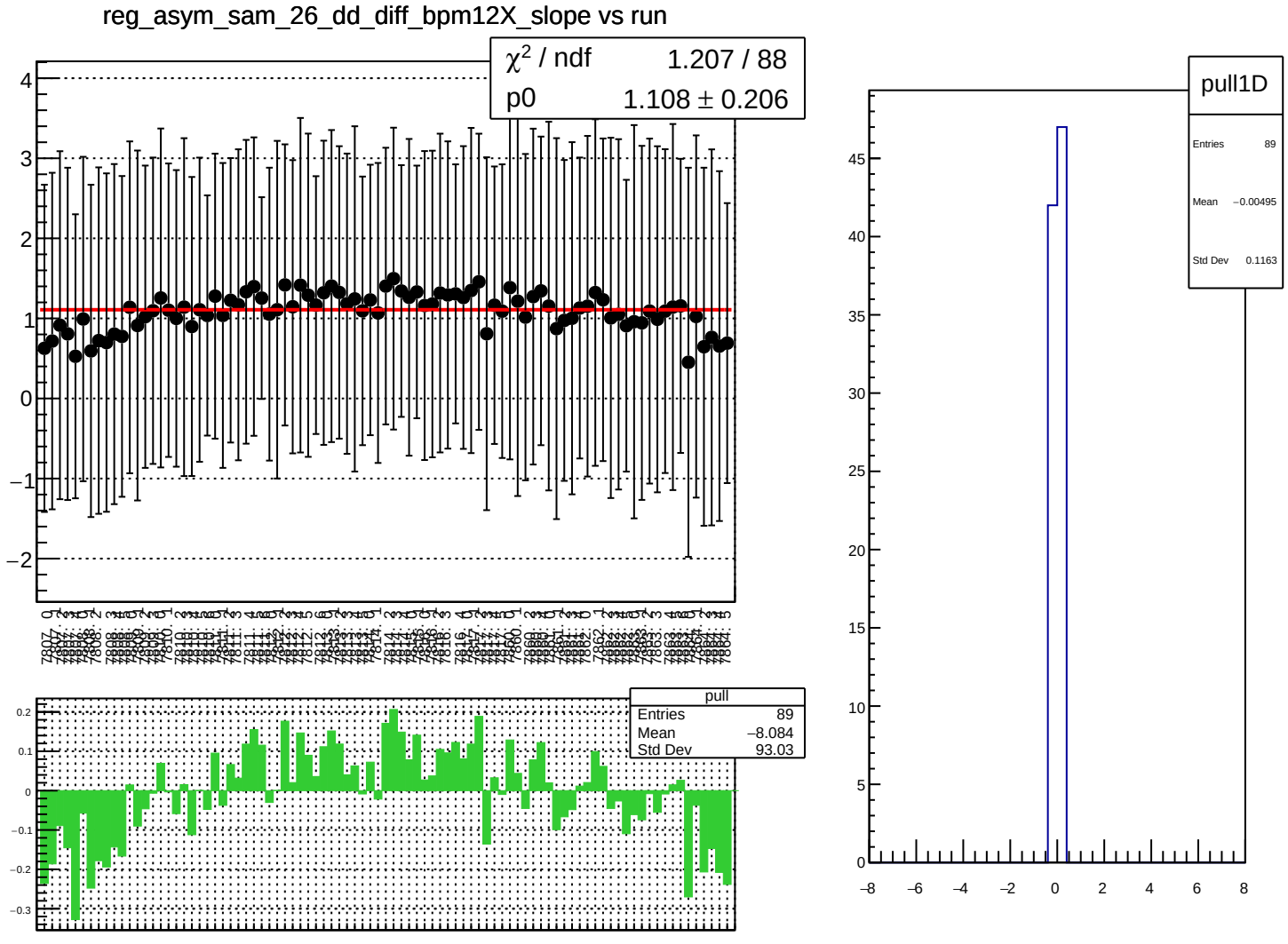

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.646 / 88
p0 −154.7 ± 6.213
−50
−100
−150
−200
−250
pull
Entries 89
Mean 715.7
Std Dev 660.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 89
Mean 0.007577
Std Dev 0.293
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

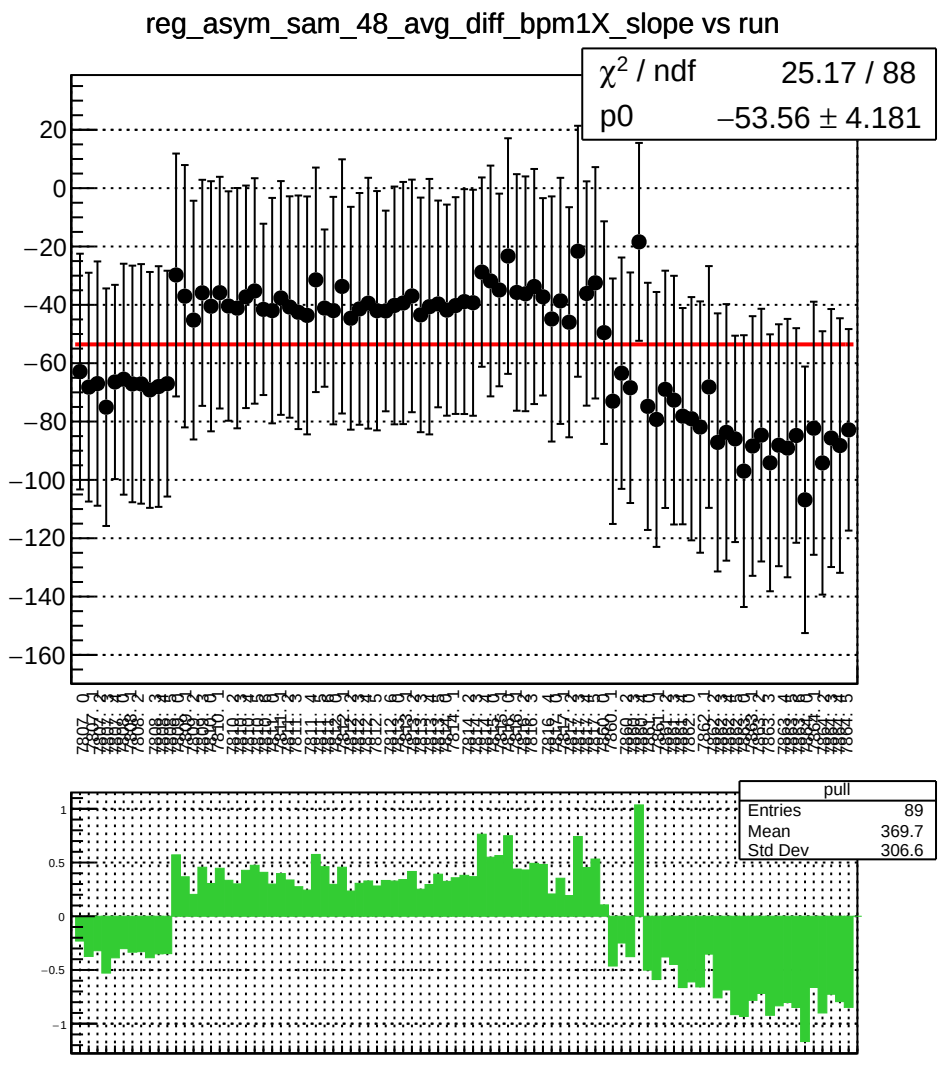

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.5395 / 88
p0 −86.32 ± 5.515
pull
Entries 89
Mean −617.6
Std Dev 665.8

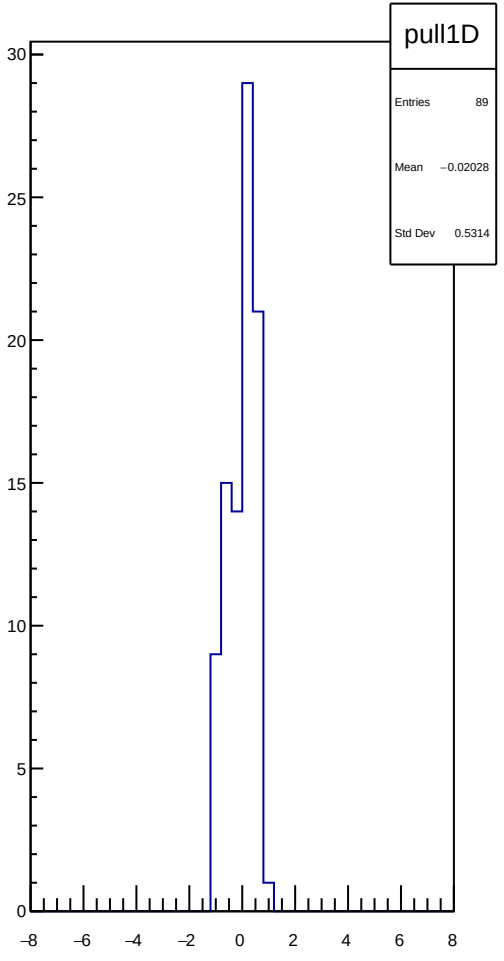

pull1D
Entries 89
Mean 0.001258
Std Dev 0.07785

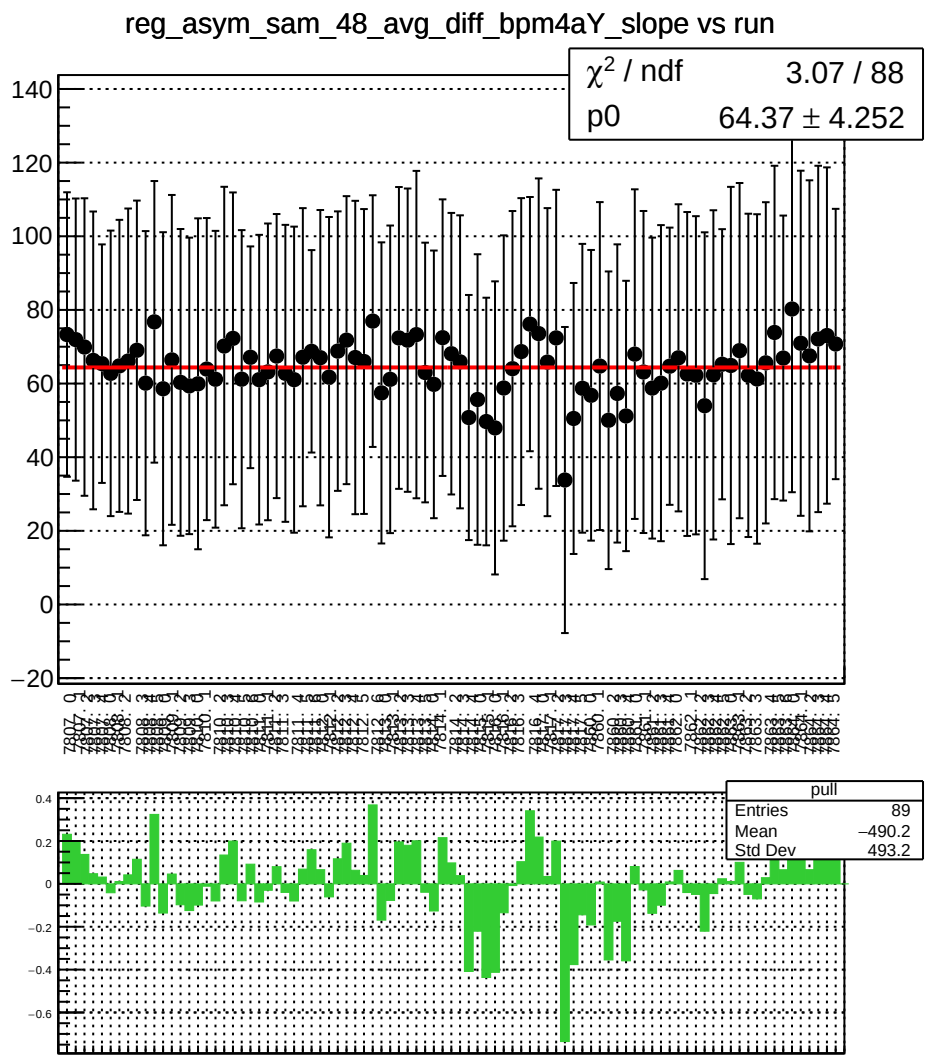

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.942 / 88
p0 21.01 ± 7.082
100
50
0
−50
−100
pull
Entries 89
Mean 540.7
Std Dev 485
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

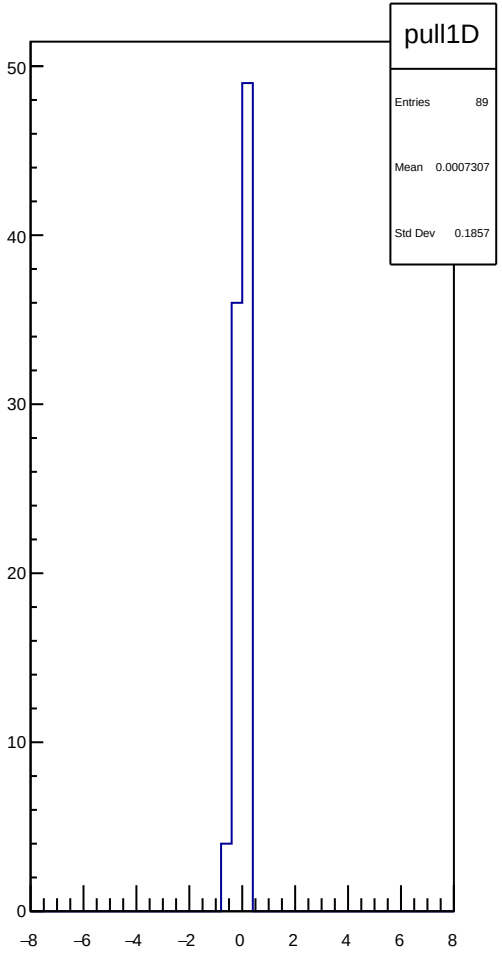

pull1D
Entries 89
Mean −0.01031
Std Dev 0.2985
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

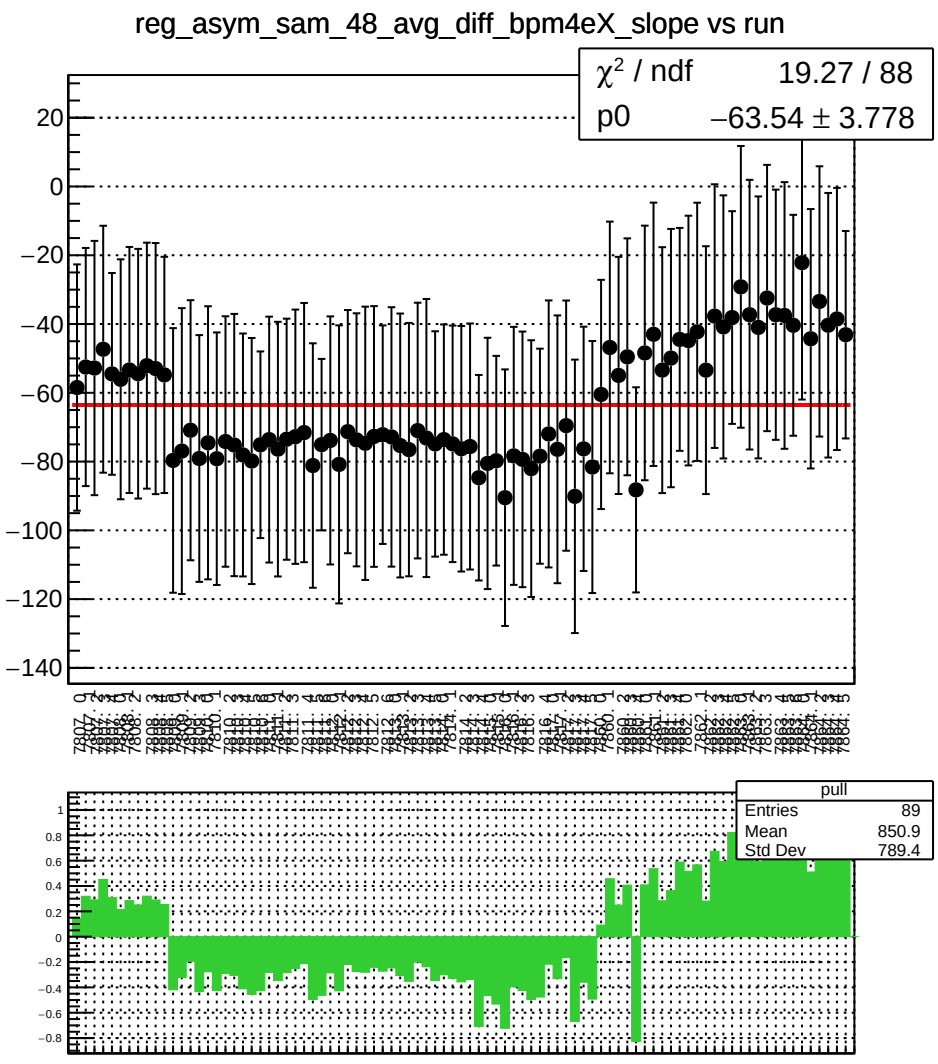

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.207 / 88
p0 1.108 ± 0.206
pull
Entries 89
Mean −8.084
Std Dev 93.03
pull1D
Entries 89
Mean −0.00495
Std Dev 0.1163

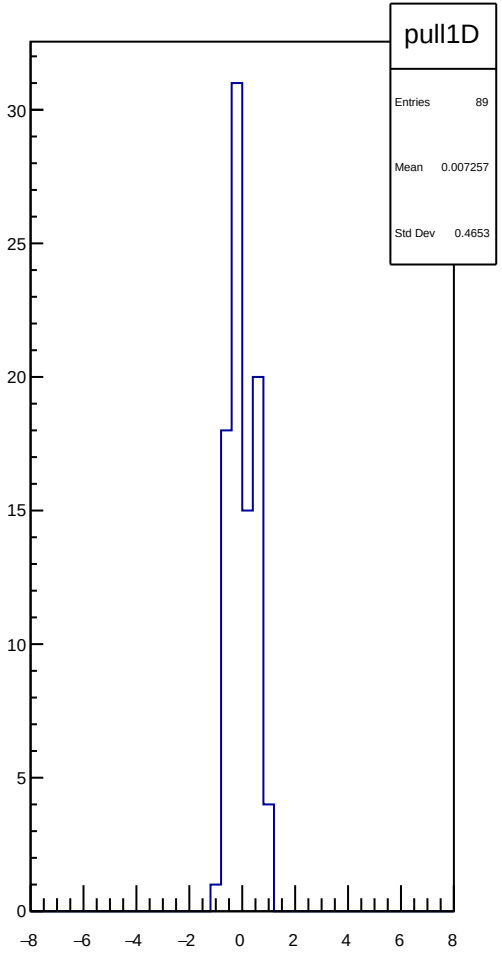

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 25.17 / 88
p0 −53.56 ± 4.181
pull
Entries 89
Mean 369.7
Std Dev 306.6

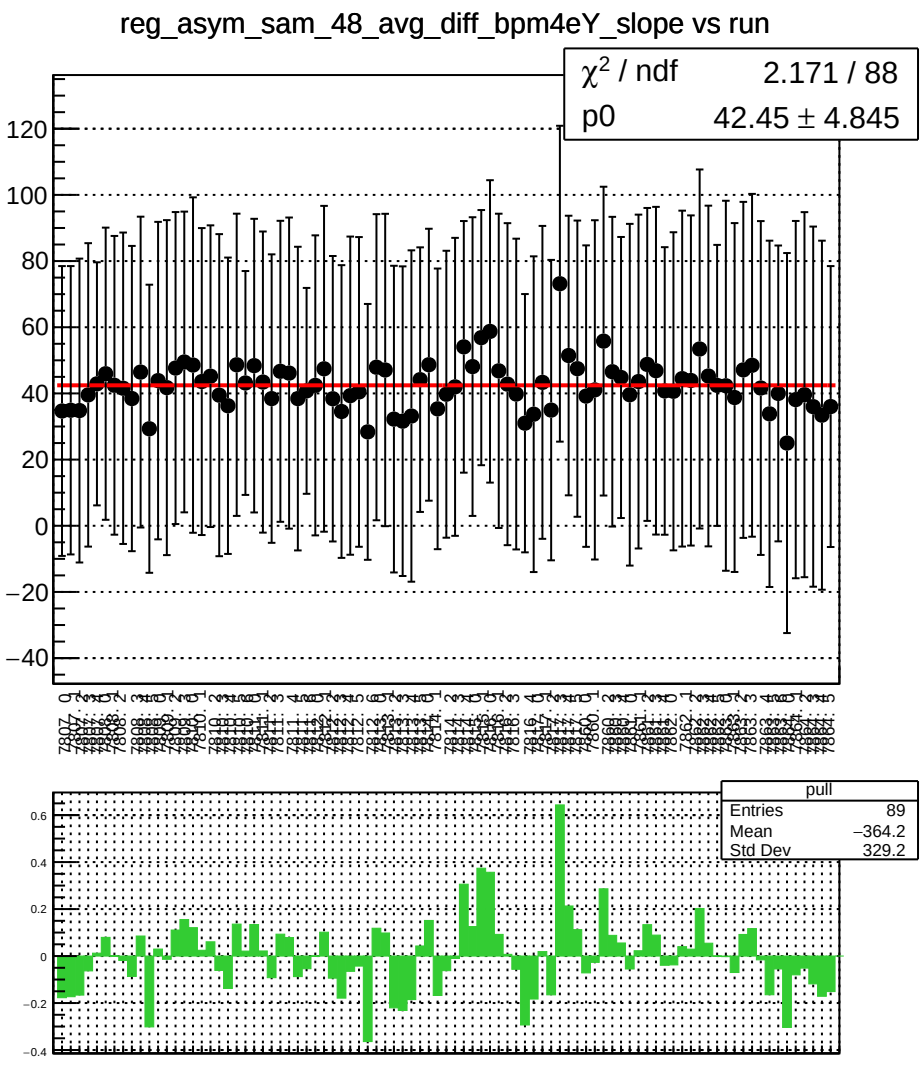

pull1D
Entries 89
Mean −0.02028
Std Dev 0.5314

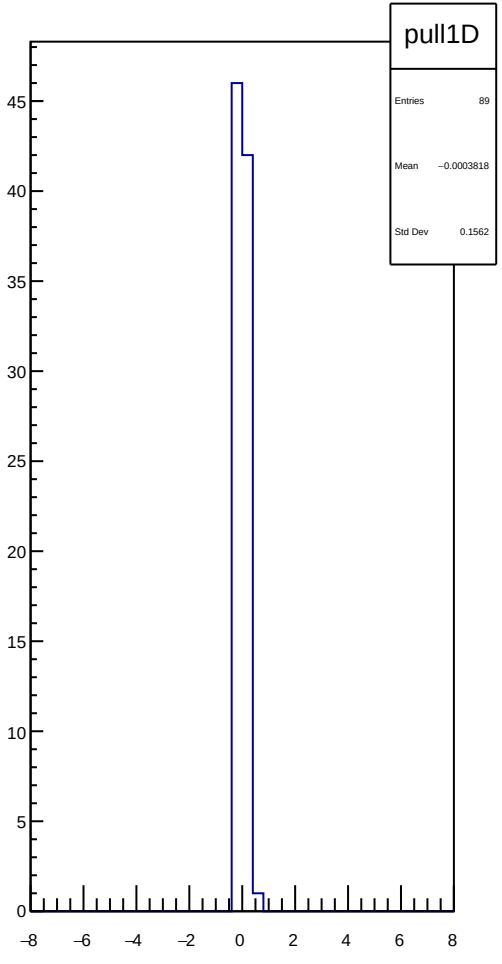

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.07 / 88
p0 64.37 ± 4.252
pull
Entries 89
Mean −490.2
Std Dev 493.2

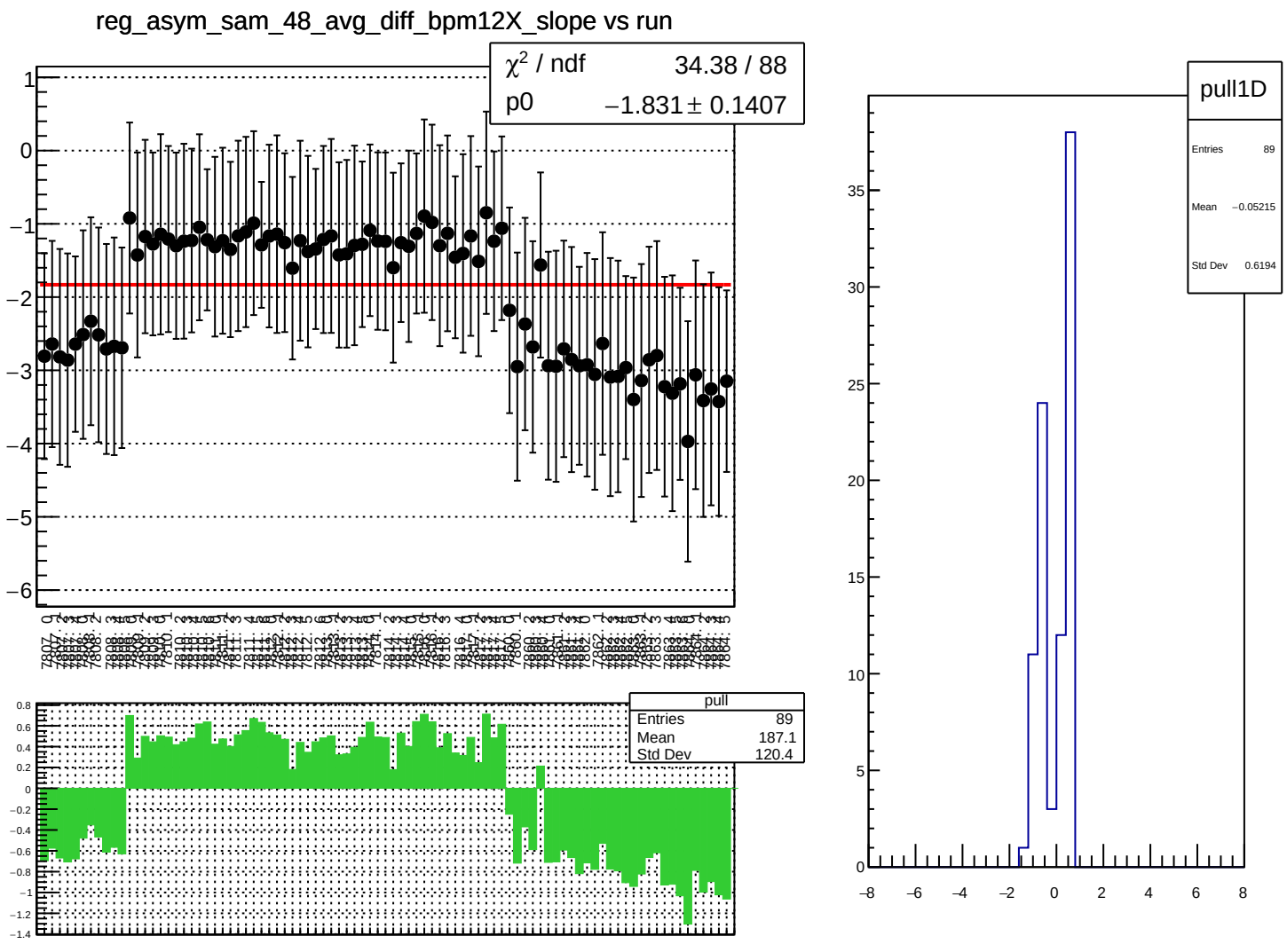

pull1D
Entries 89
Mean 0.0007307
Std Dev 0.1857

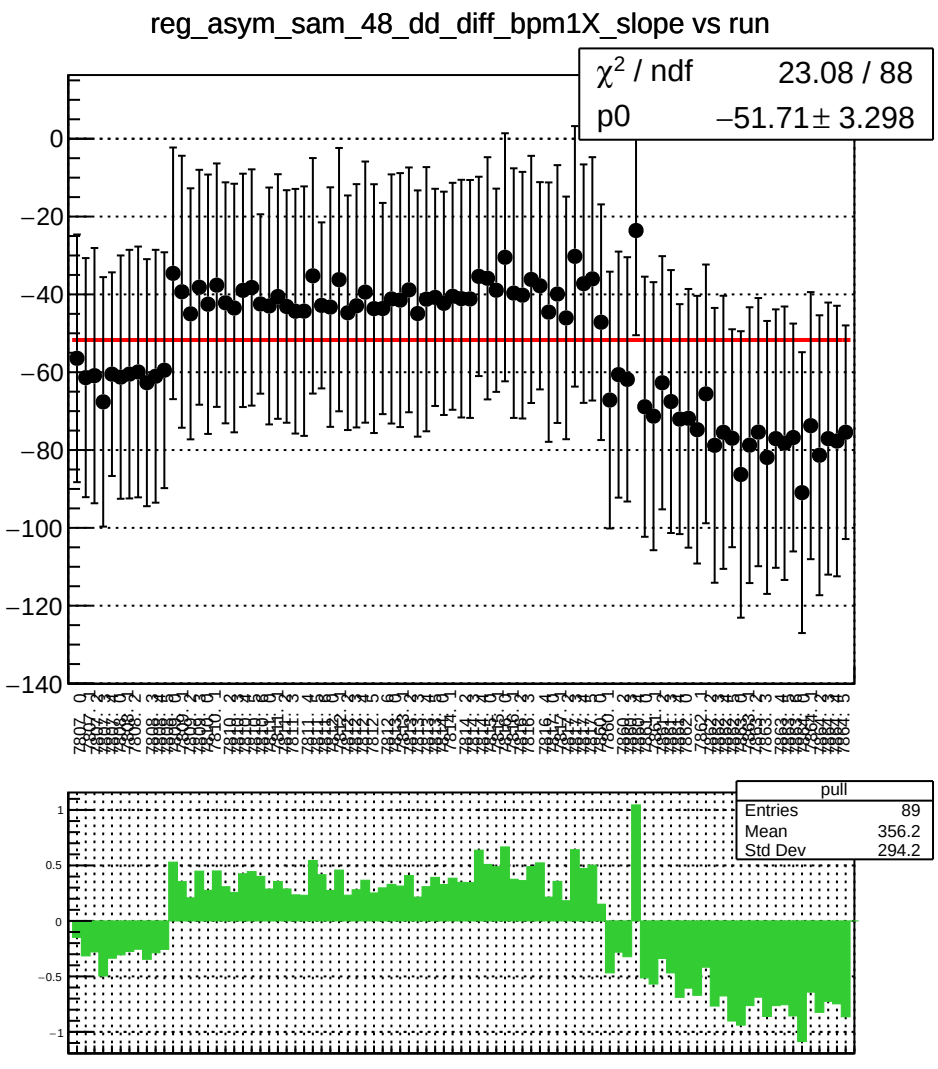

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.27 / 88
p0 −63.54 ± 3.778
pull
Entries 89
Mean 850.9
Std Dev 789.4

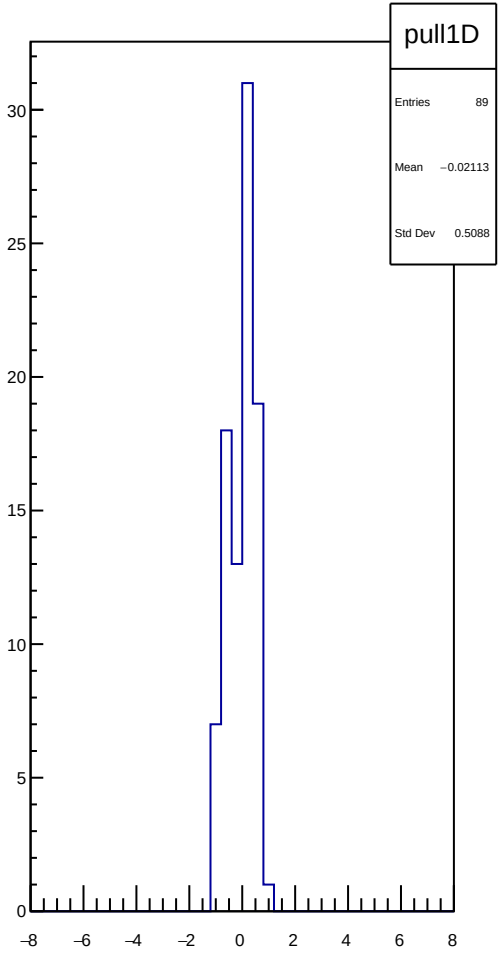

pull1D
Entries 89
Mean 0.007257
Std Dev 0.4653

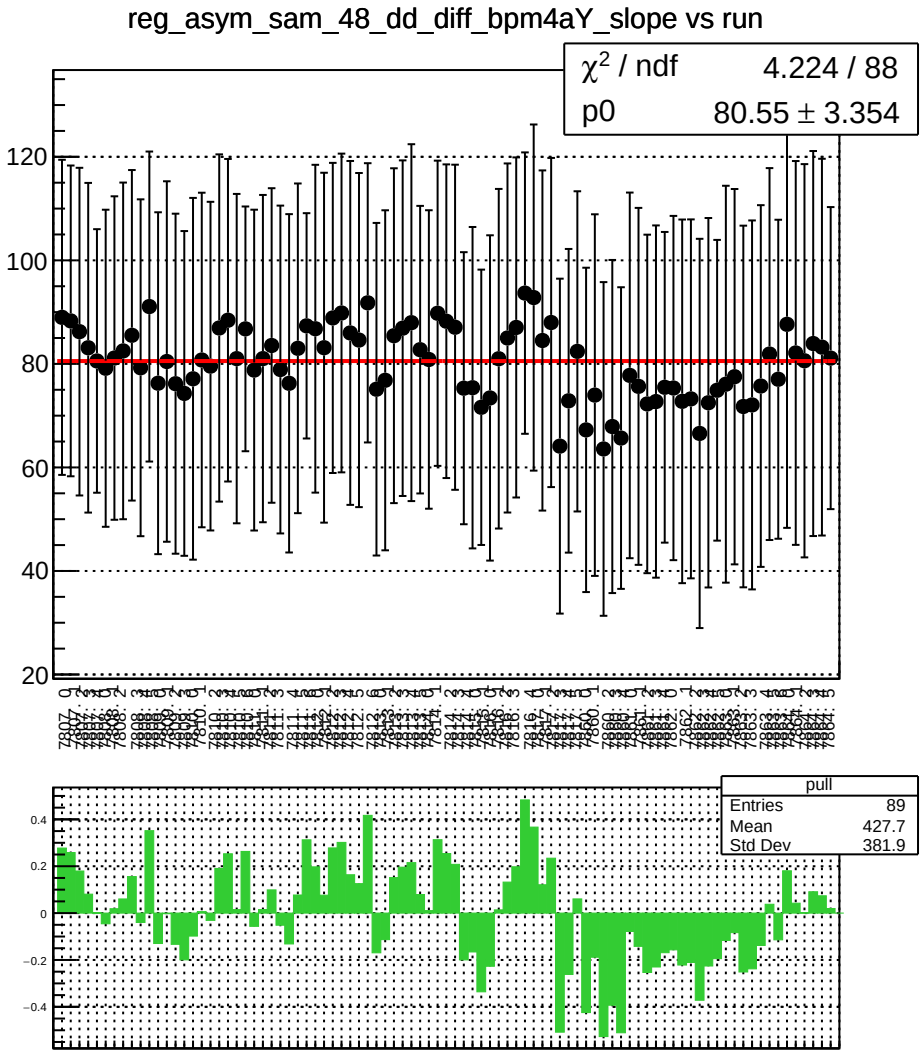

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.171 / 88
p0 42.45 ± 4.845
pull
Entries 89
Mean −364.2
Std Dev 329.2

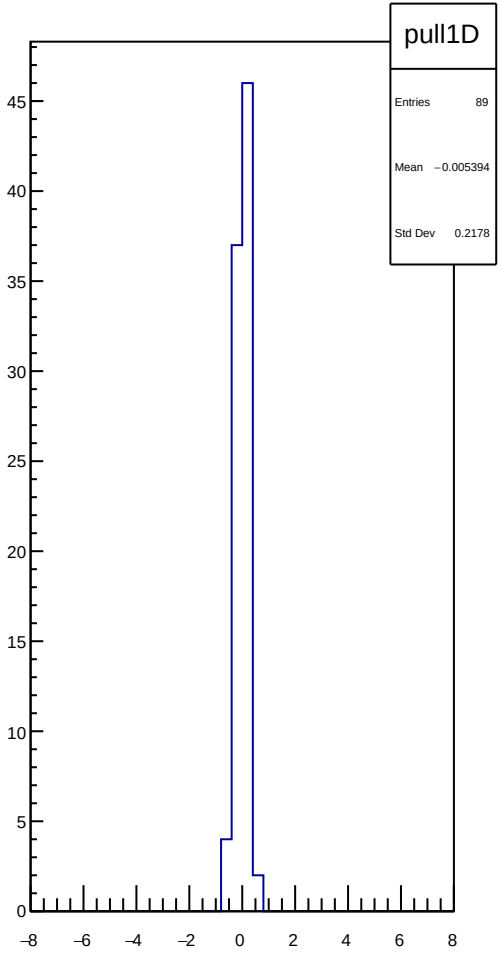

pull1D
Entries 89
Mean −0.0003818
Std Dev 0.1562

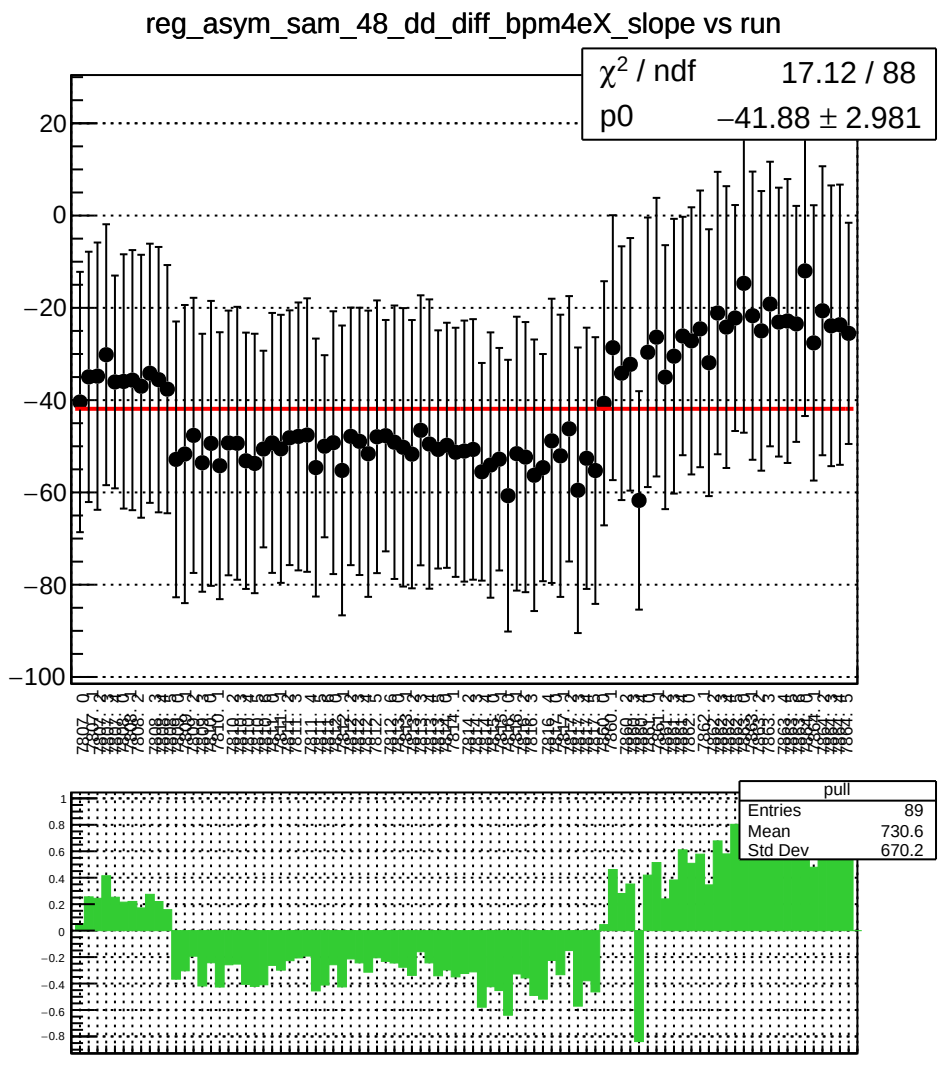

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 34.38 / 88
p0 −1.831 ± 0.1407
pull
Entries 89
Mean 187.1
Std Dev 120.4
pull1D
Entries 89
Mean −0.05215
Std Dev 0.6194

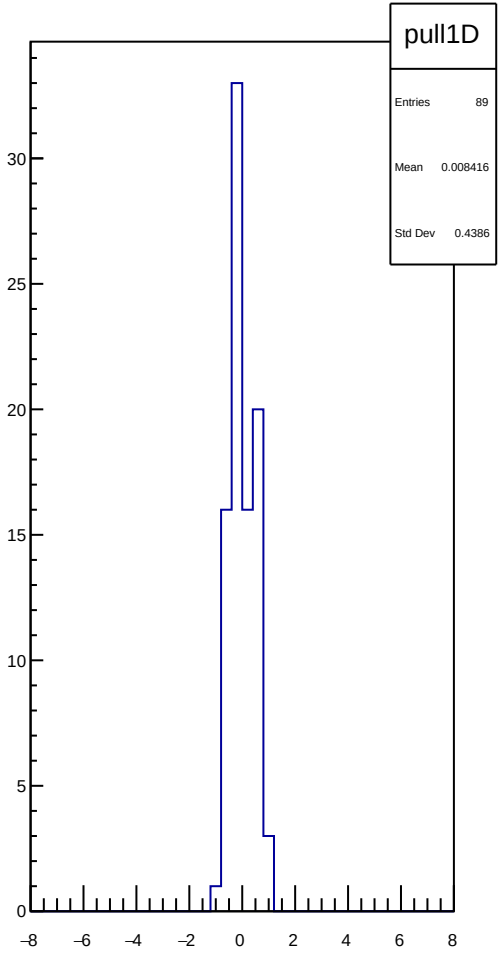

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 23.08 / 88
p0 −51.71± 3.298
pull
Entries 89
Mean 356.2
Std Dev 294.2

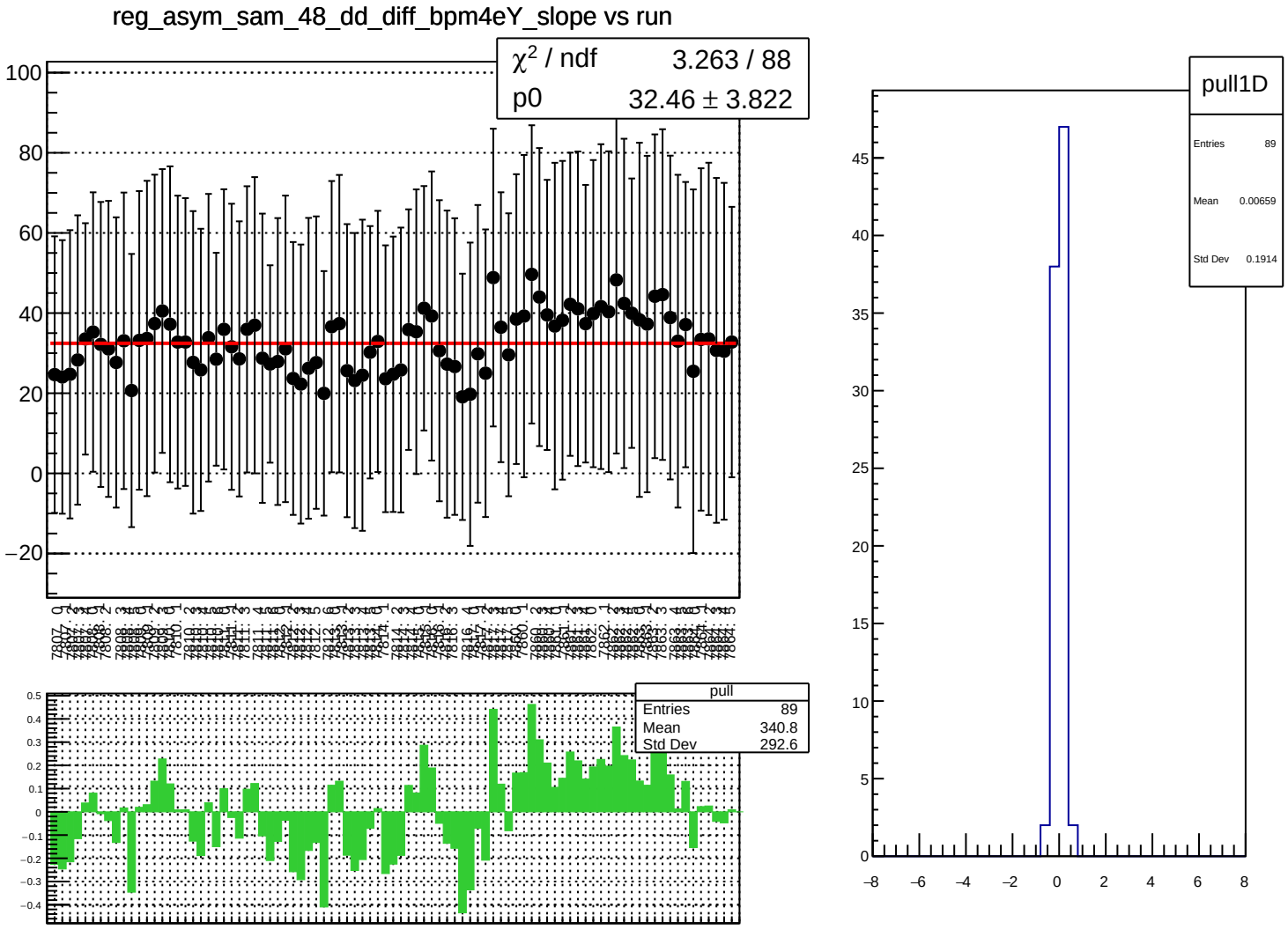

pull1D
Entries 89
Mean −0.02113
Std Dev 0.5088

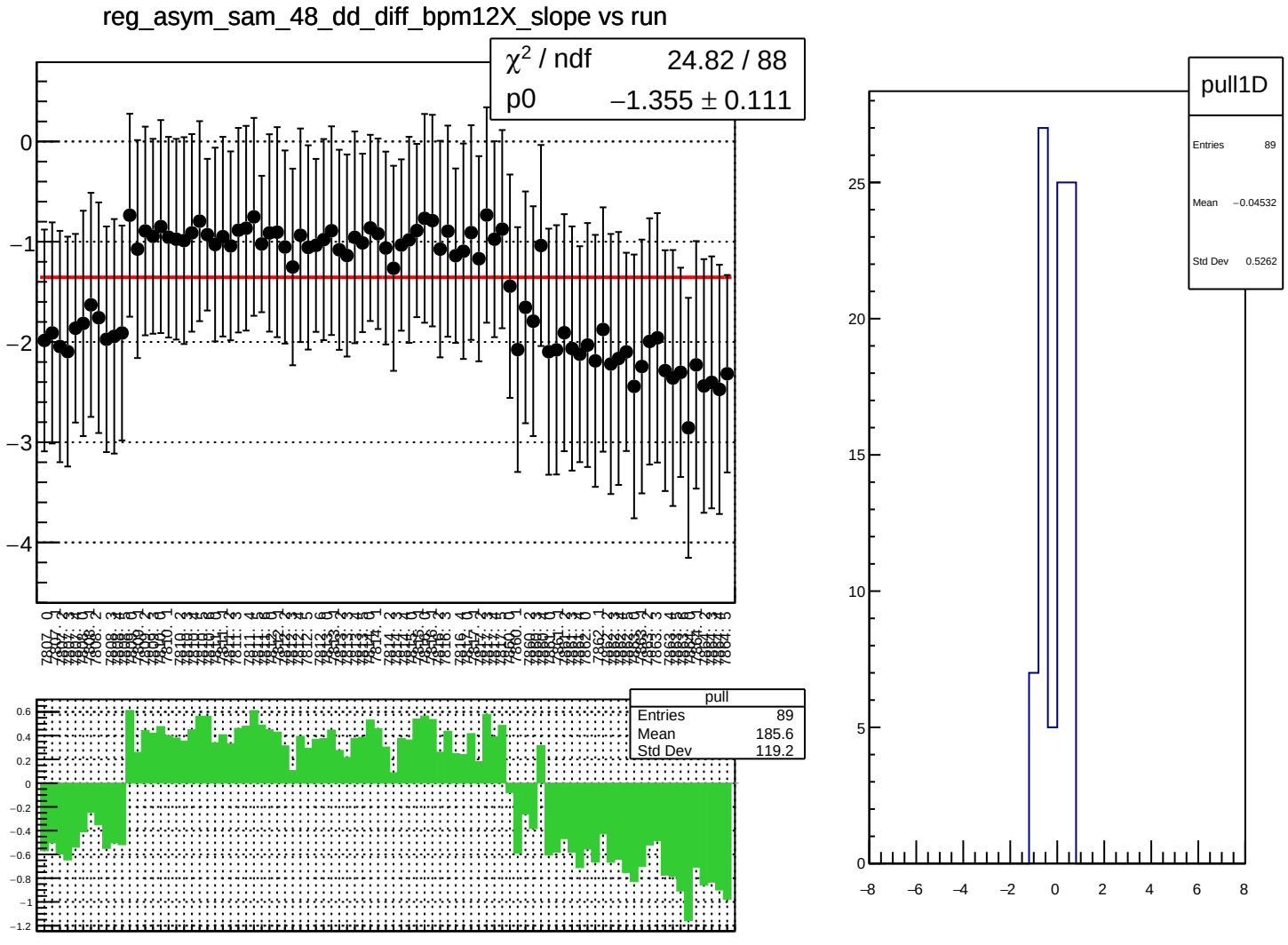

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.224 / 88
p0 80.55 ± 3.354
120
100
80
60
40
20
pull
Entries 89
Mean 427.7
Std Dev 381.9
0.4
0.2
0
−0.2
−0.4

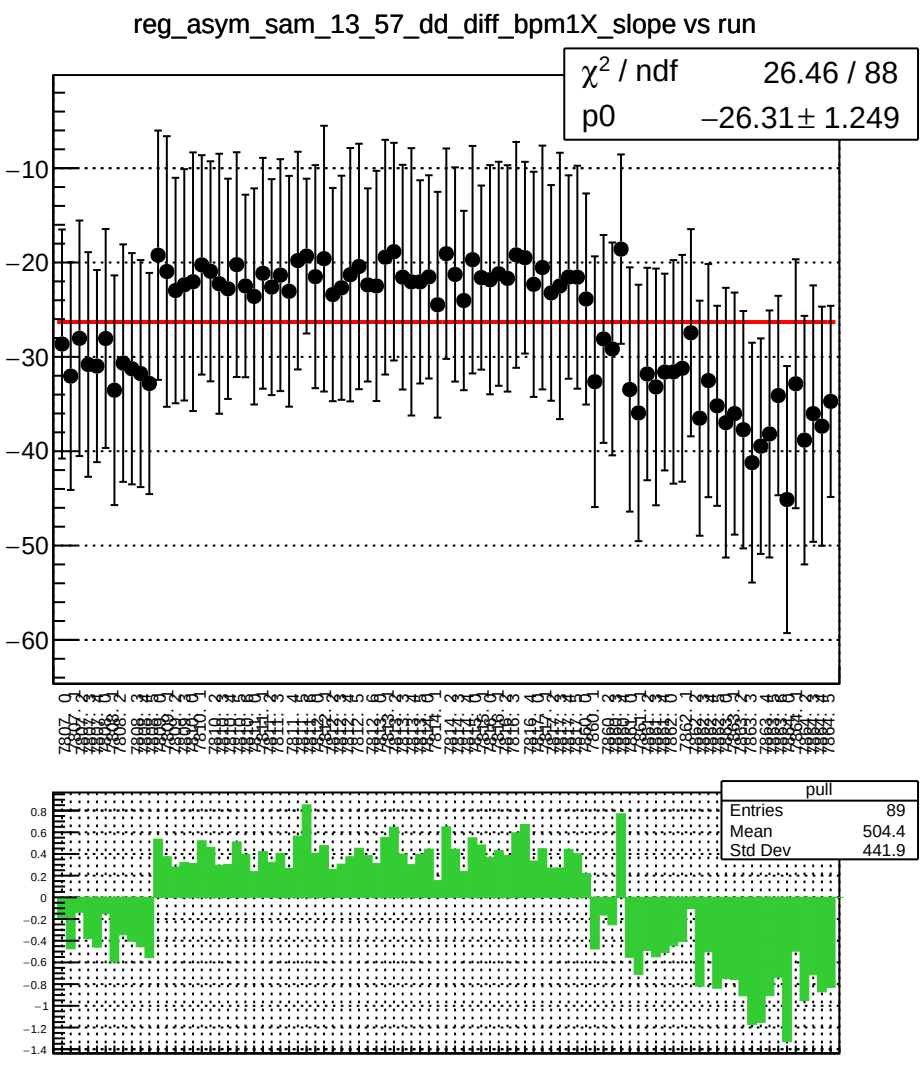

pull1D
Entries 89
Mean −0.005394
Std Dev 0.2178
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

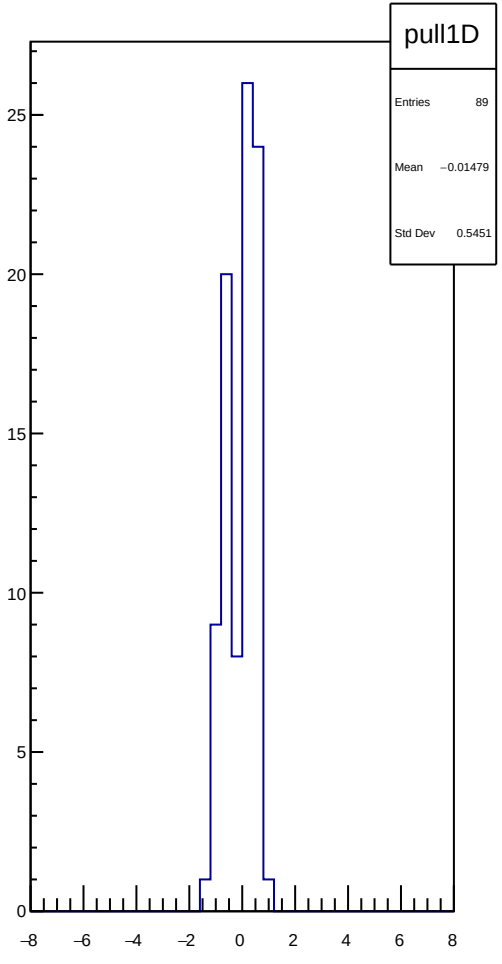

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.12 / 88
p0 −41.88 ± 2.981
pull
Entries 89
Mean 730.6
Std Dev 670.2

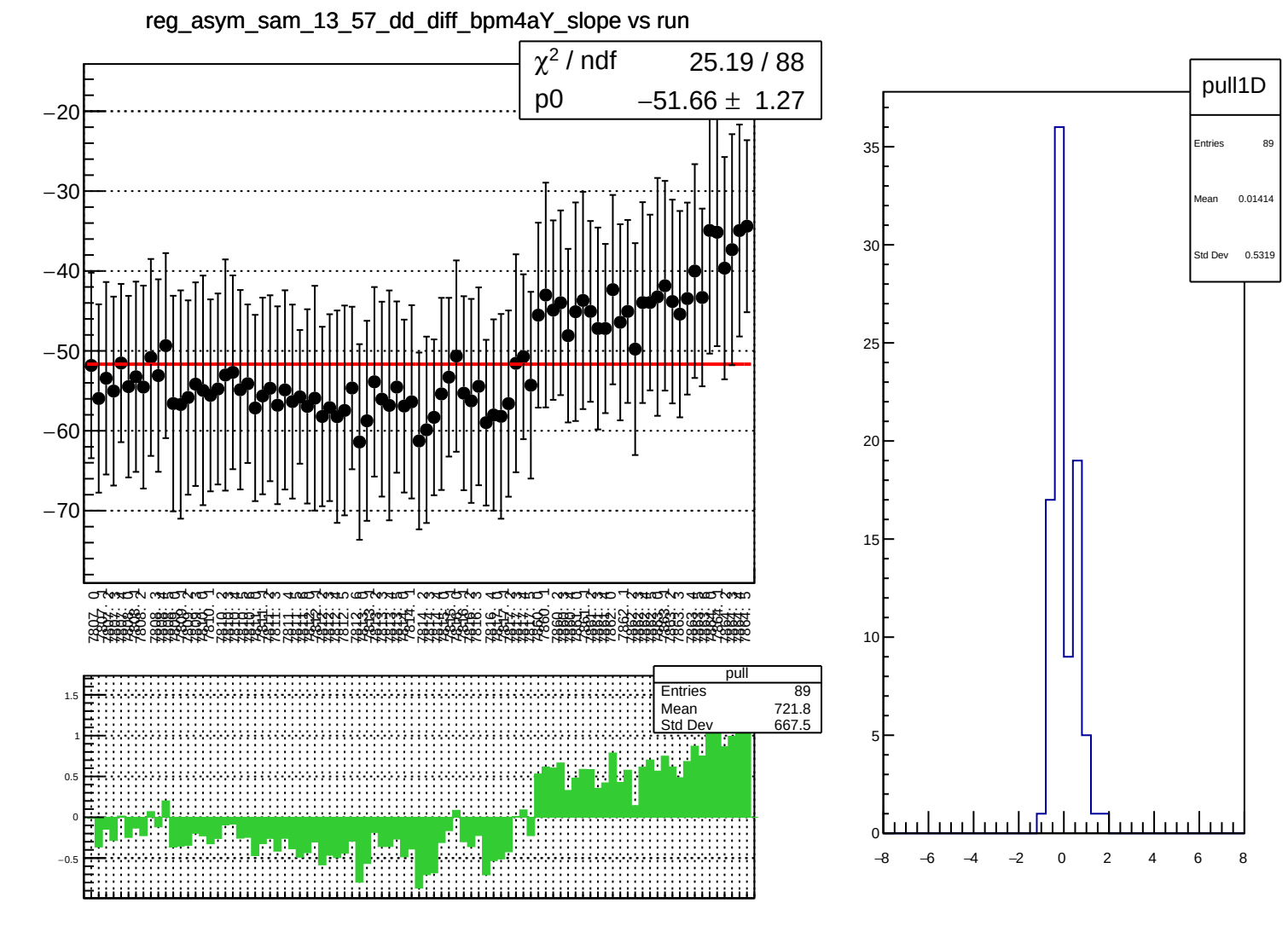

pull1D
Entries 89
Mean 0.008416
Std Dev 0.4386

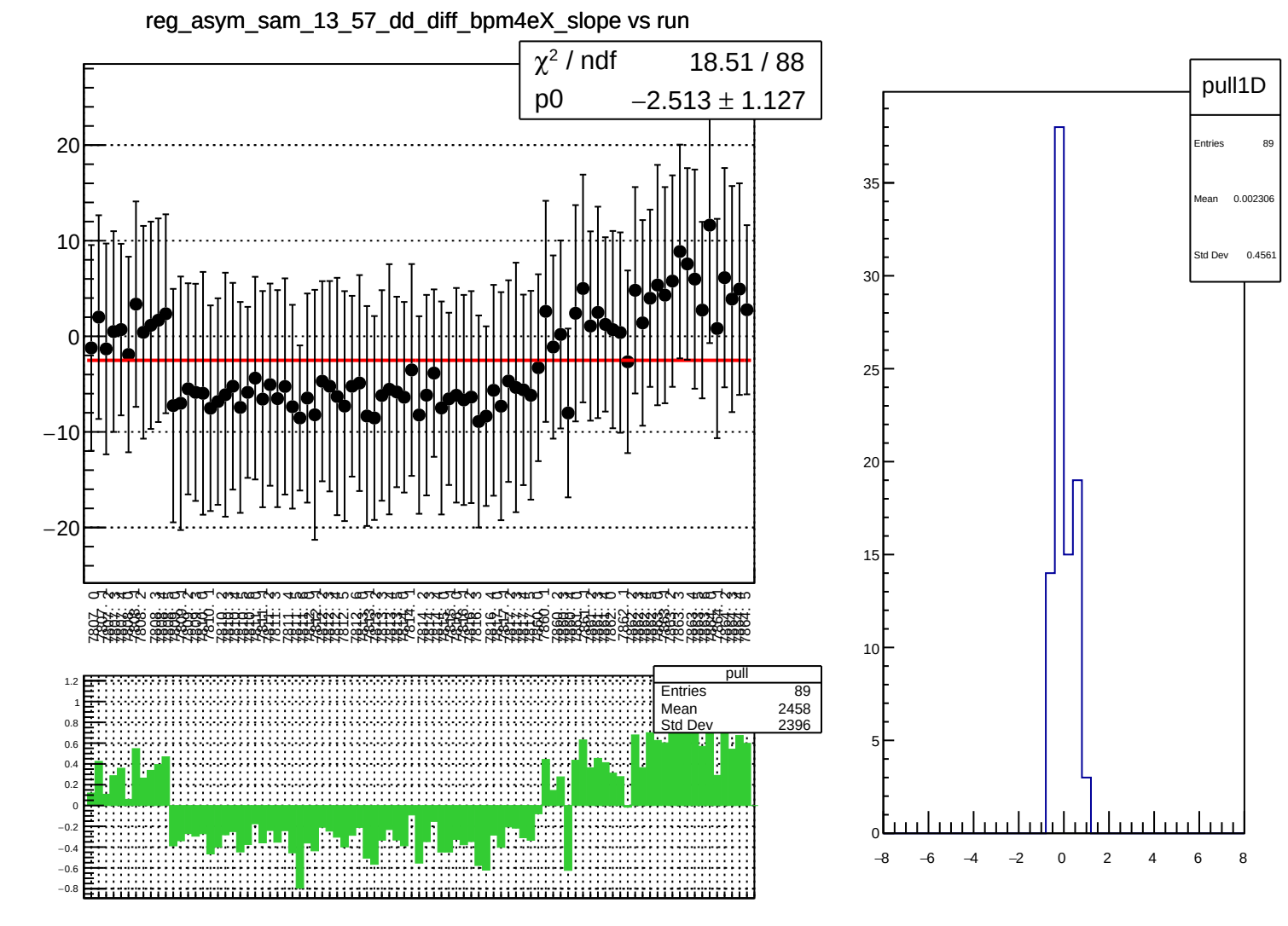

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.263 / 88
p0 32.46 ± 3.822
pull
Entries 89
Mean 340.8
Std Dev 292.6
pull1D
Entries 89
Mean 0.00659
Std Dev 0.1914

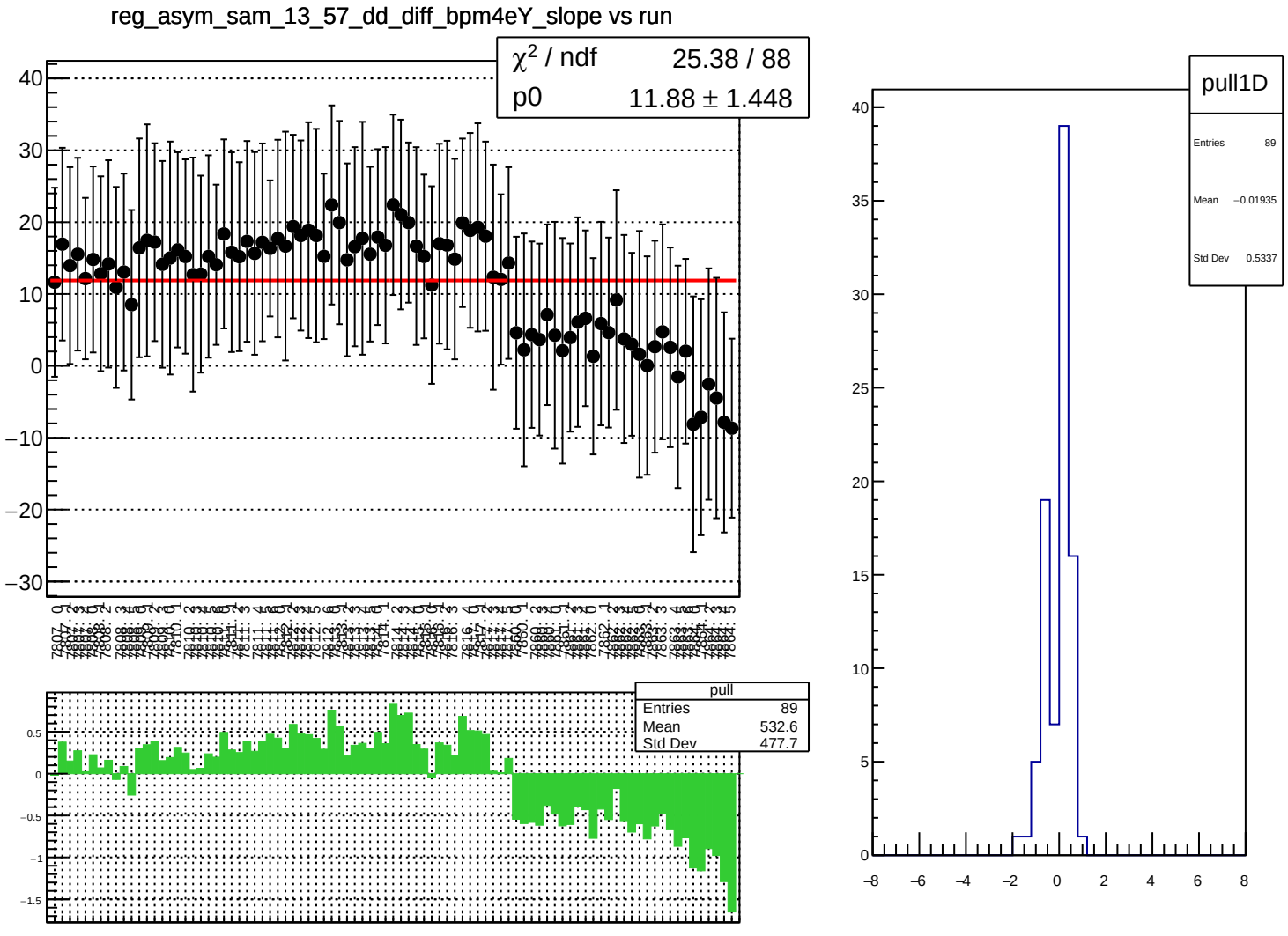

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 24.82 / 88
p0 −1.355 ± 0.111
pull
Entries 89
Mean 185.6
Std Dev 119.2
pull1D
Entries 89
Mean −0.04532
Std Dev 0.5262

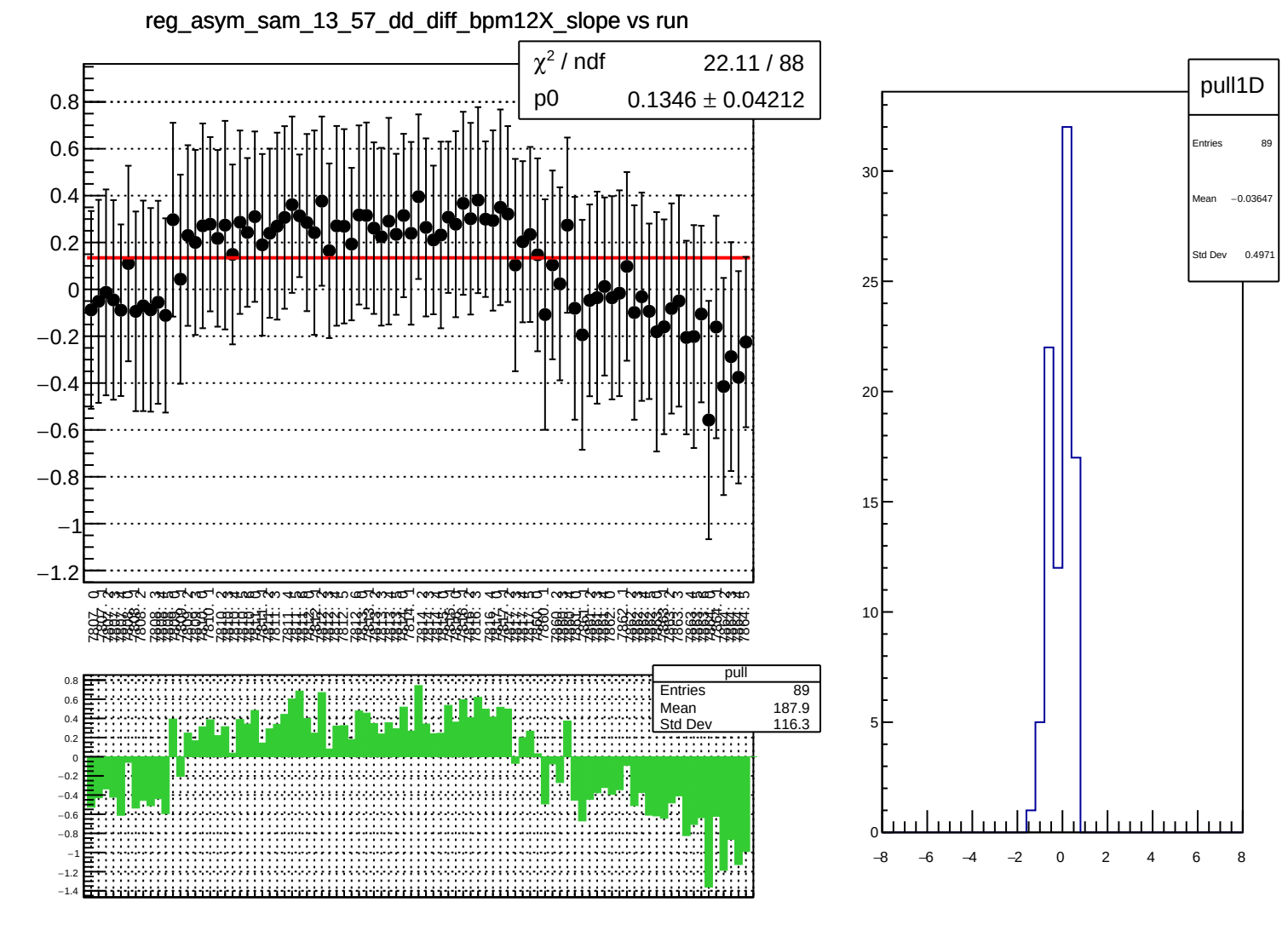

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 26.46 / 88
p0 −26.31 ± 1.249
pull
Entries 89
Mean 504.4
Std Dev 441.9

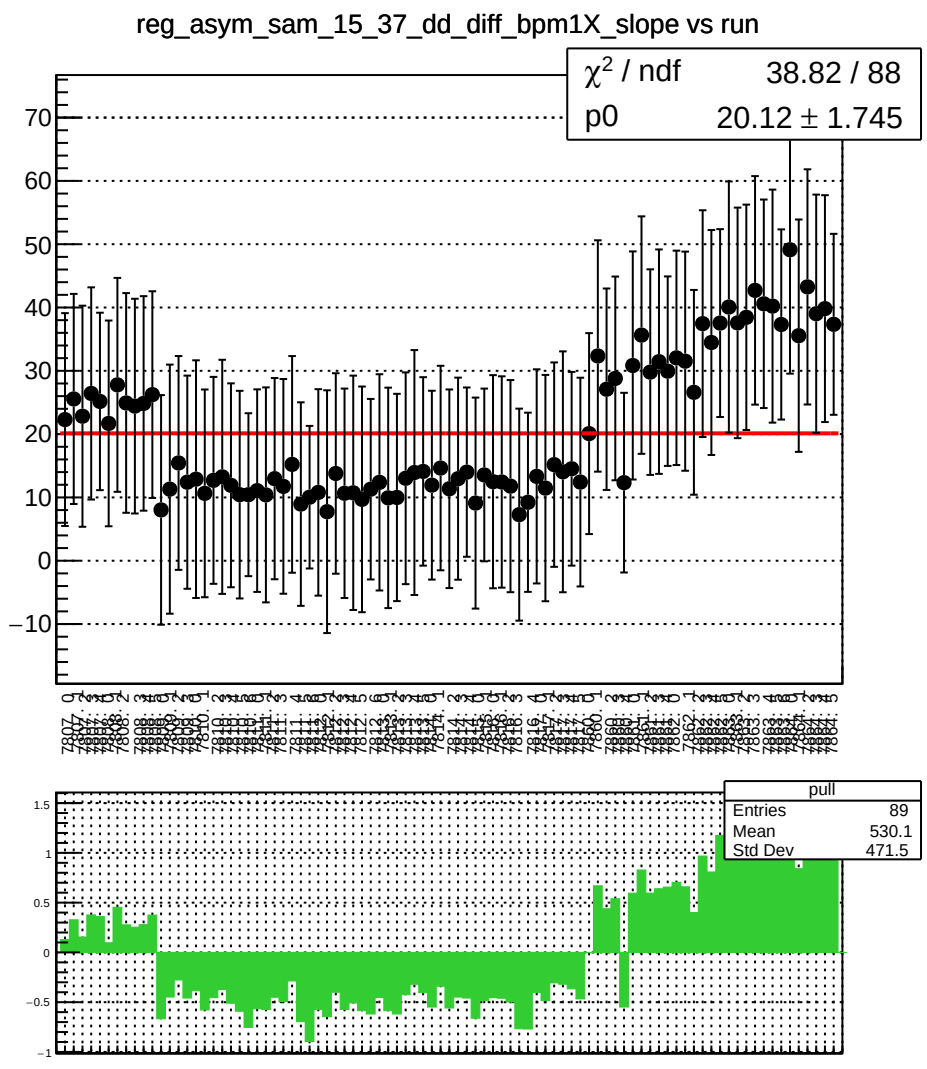

pull1D
Entries 89
Mean −0.01479
Std Dev 0.5451

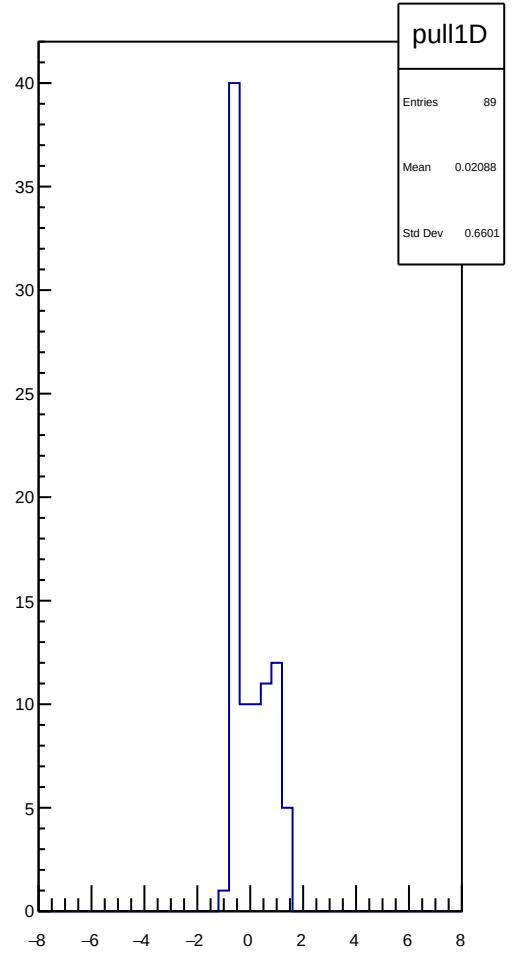

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.19 / 88
p0 −51.66 ± 1.27
−20
−30
−40
−50
−60
−70
pull
Entries 89
Mean 721.8
Std Dev 667.5
1.5
1
0.5
0
−0.5
pull1D
Entries 89
Mean 0.01414
Std Dev 0.5319
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

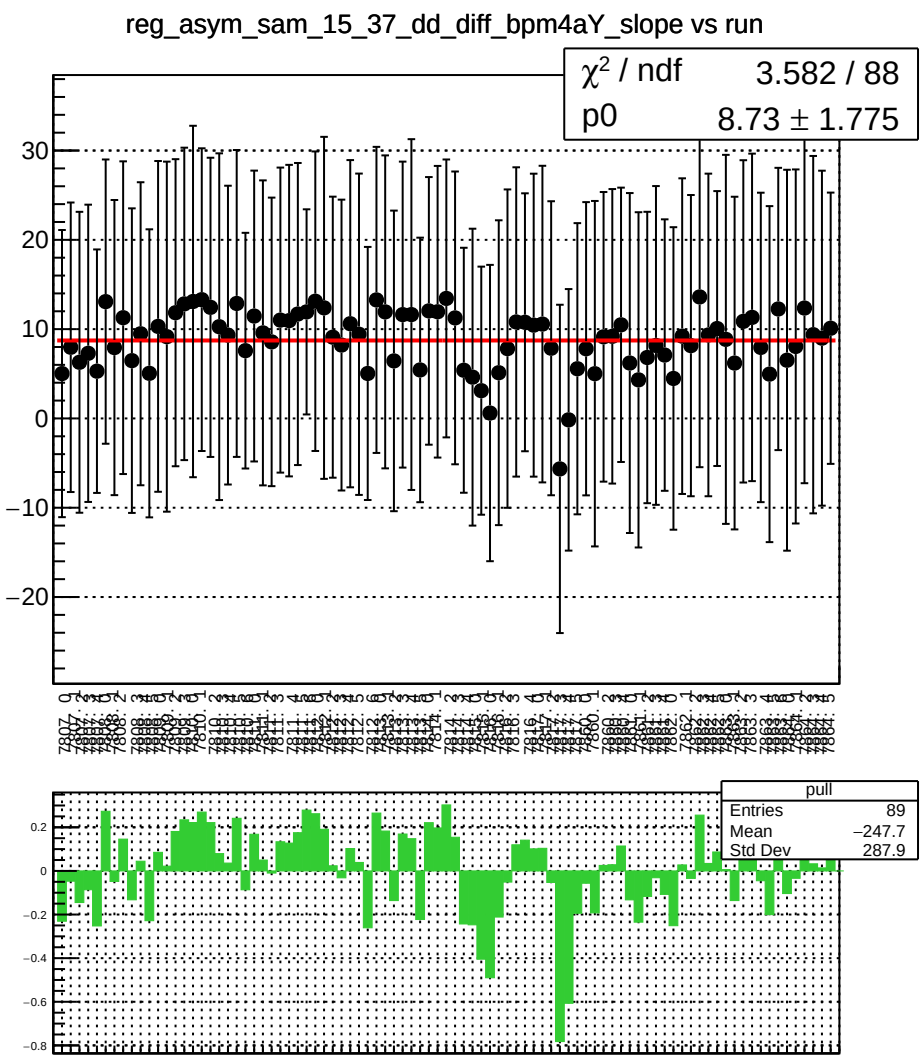

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.51 / 88
p0 −2.513 ± 1.127
pull
Entries 89
Mean 2458
Std Dev 2396
pull1D
Entries 89
Mean 0.002306
Std Dev 0.4561

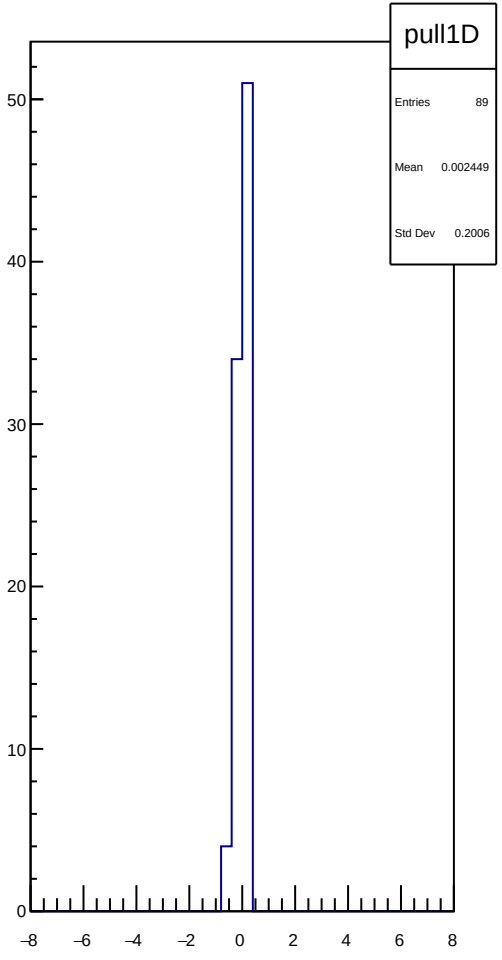

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.38 / 88
p0 11.88 ± 1.448
pull
Entries 89
Mean 532.6
Std Dev 477.7
pull1D
Entries 89
Mean −0.01935
Std Dev 0.5337

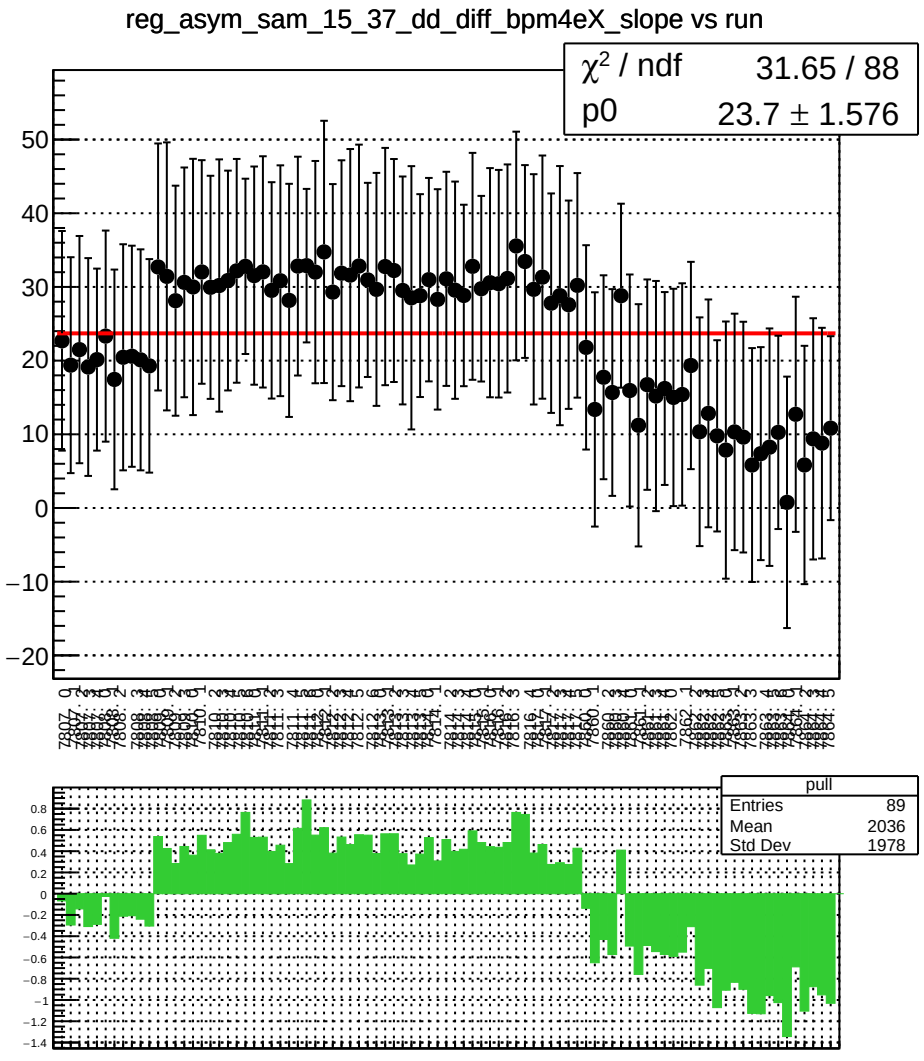

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 22.11 / 88
p0 0.1346 ± 0.04212
pull
Entries 89
Mean 187.9
Std Dev 116.3
pull1D
Entries 89
Mean −0.03647
Std Dev 0.4971

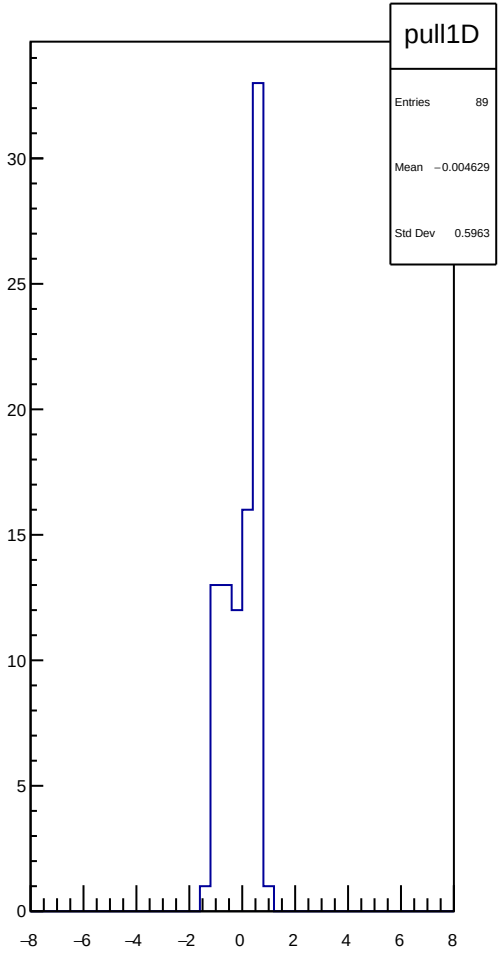

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 38.82 / 88
p0 20.12 ± 1.745
pull
Entries 89
Mean 530.1
Std Dev 471.5

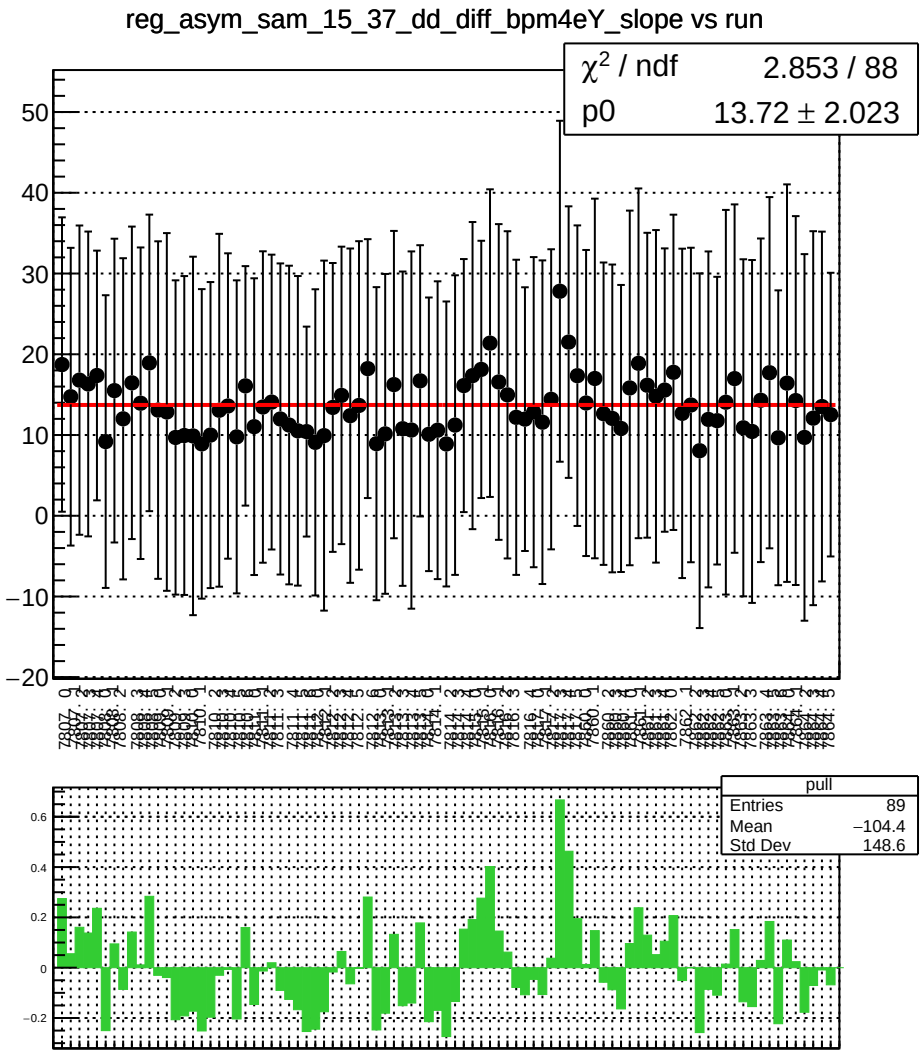

pull1D
Entries 89
Mean 0.02088
Std Dev 0.6601

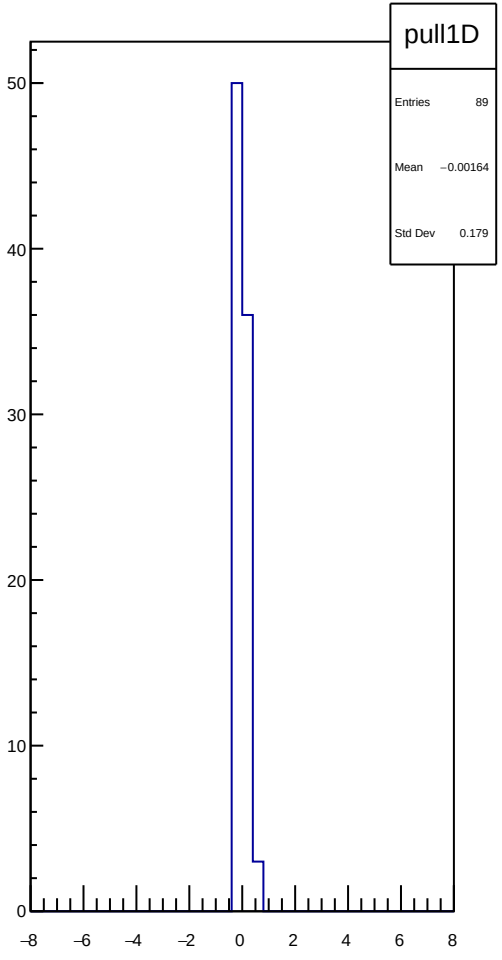

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.582 / 88
p0 8.73 ± 1.775
pull
Entries 89
Mean −247.7
Std Dev 287.9

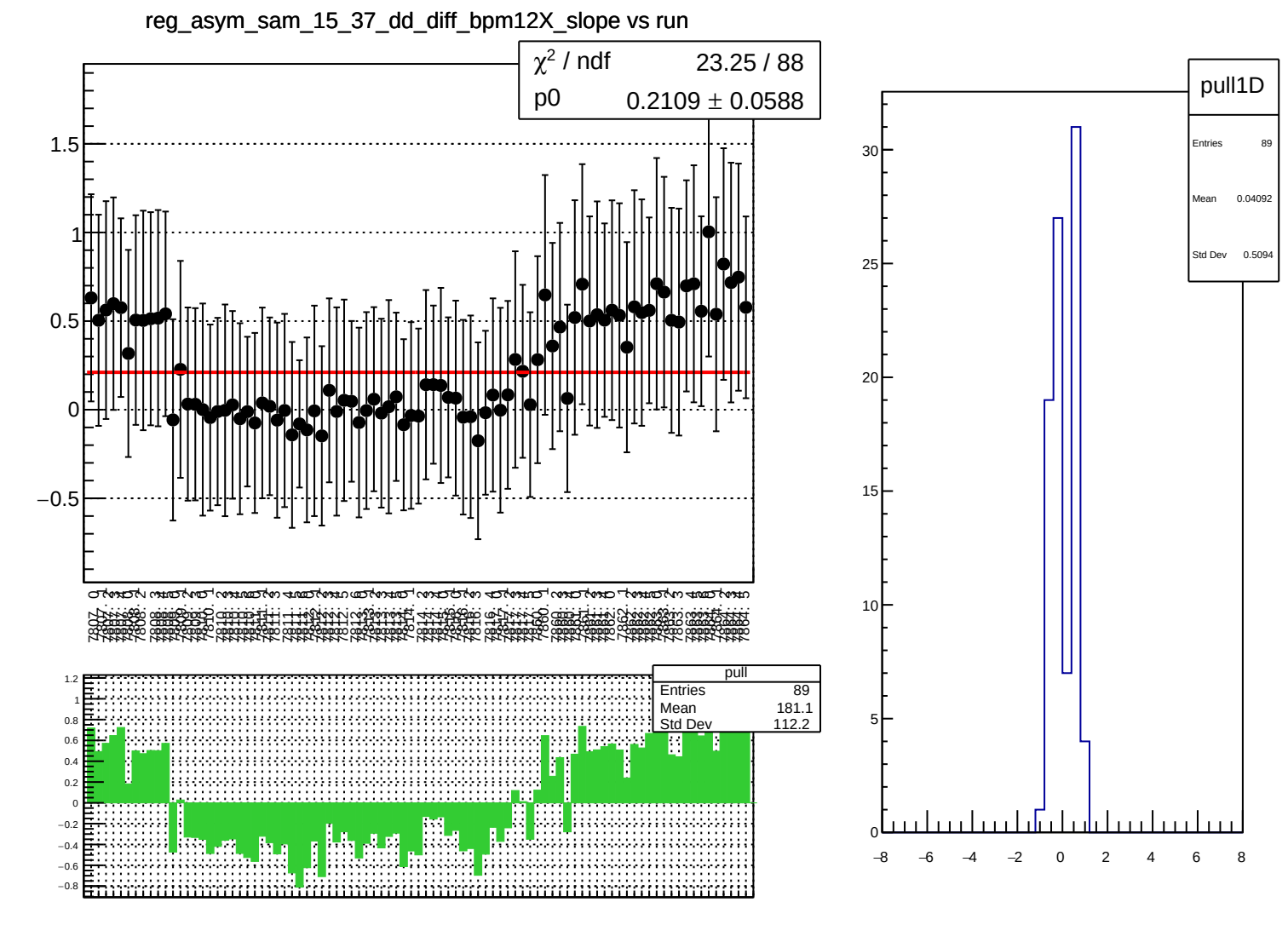

pull1D
Entries 89
Mean 0.002449
Std Dev 0.2006

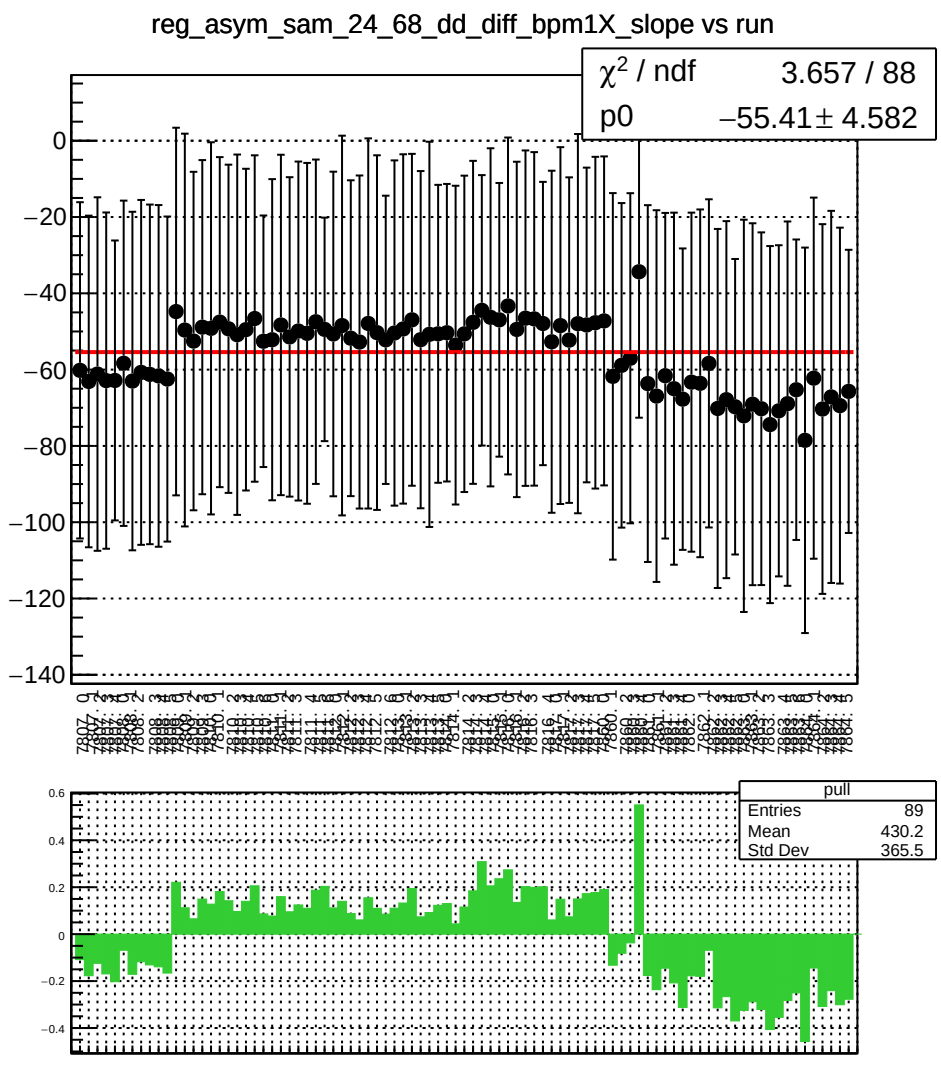

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.65 / 88
p0 23.7 ± 1.576
pull
Entries 89
Mean 2036
Std Dev 1978

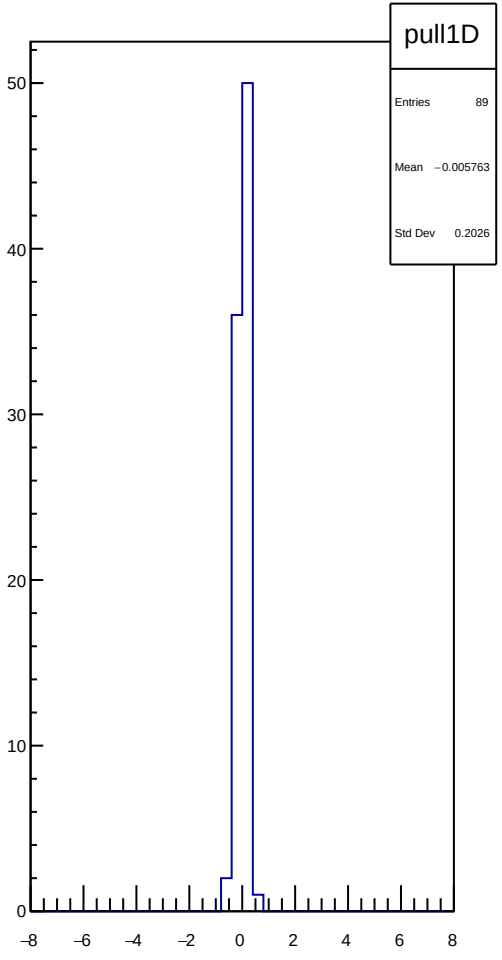

pull1D
Entries 89
Mean −0.004629
Std Dev 0.5963

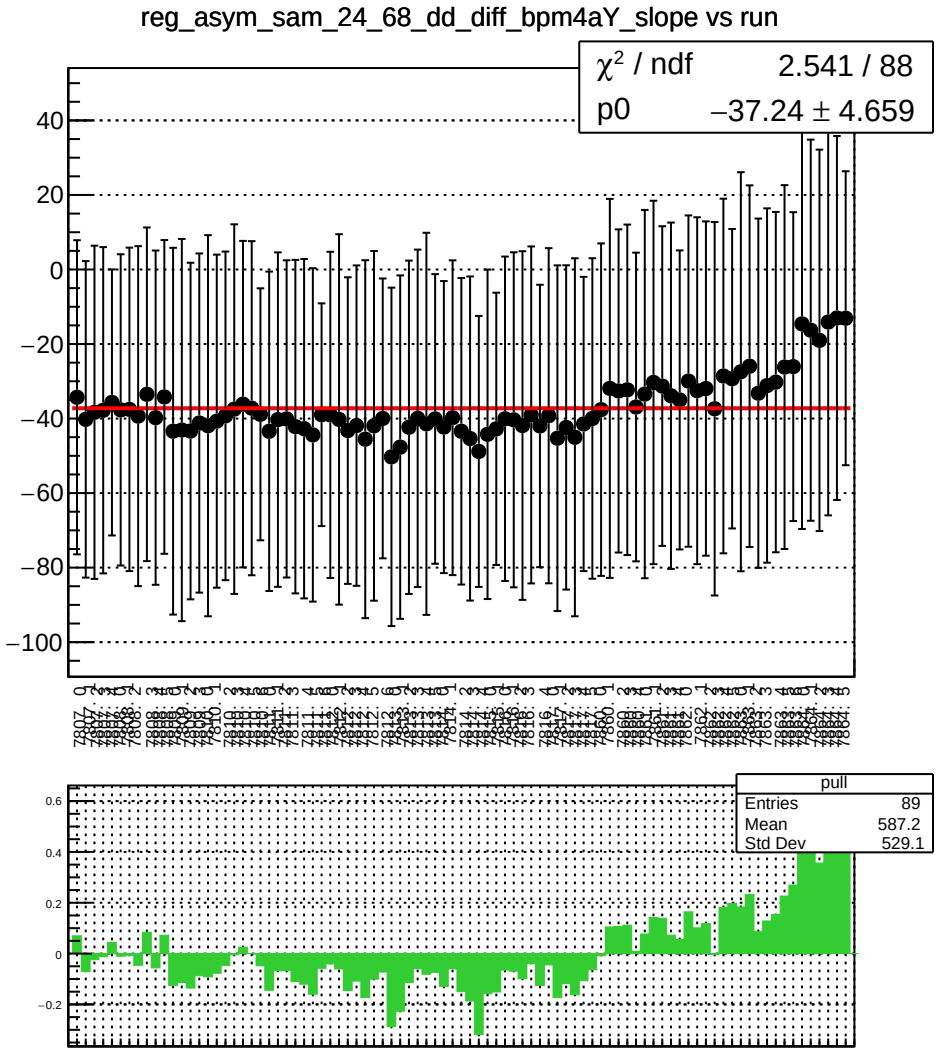

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.853 / 88
p0 13.72 ± 2.023
pull
Entries 89
Mean −104.4
Std Dev 148.6

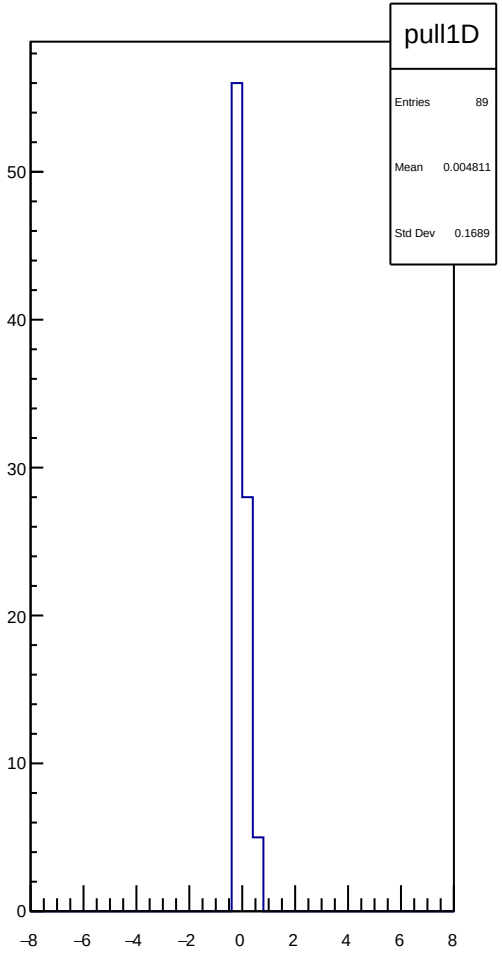

pull1D
Entries 89
Mean −0.00164
Std Dev 0.179

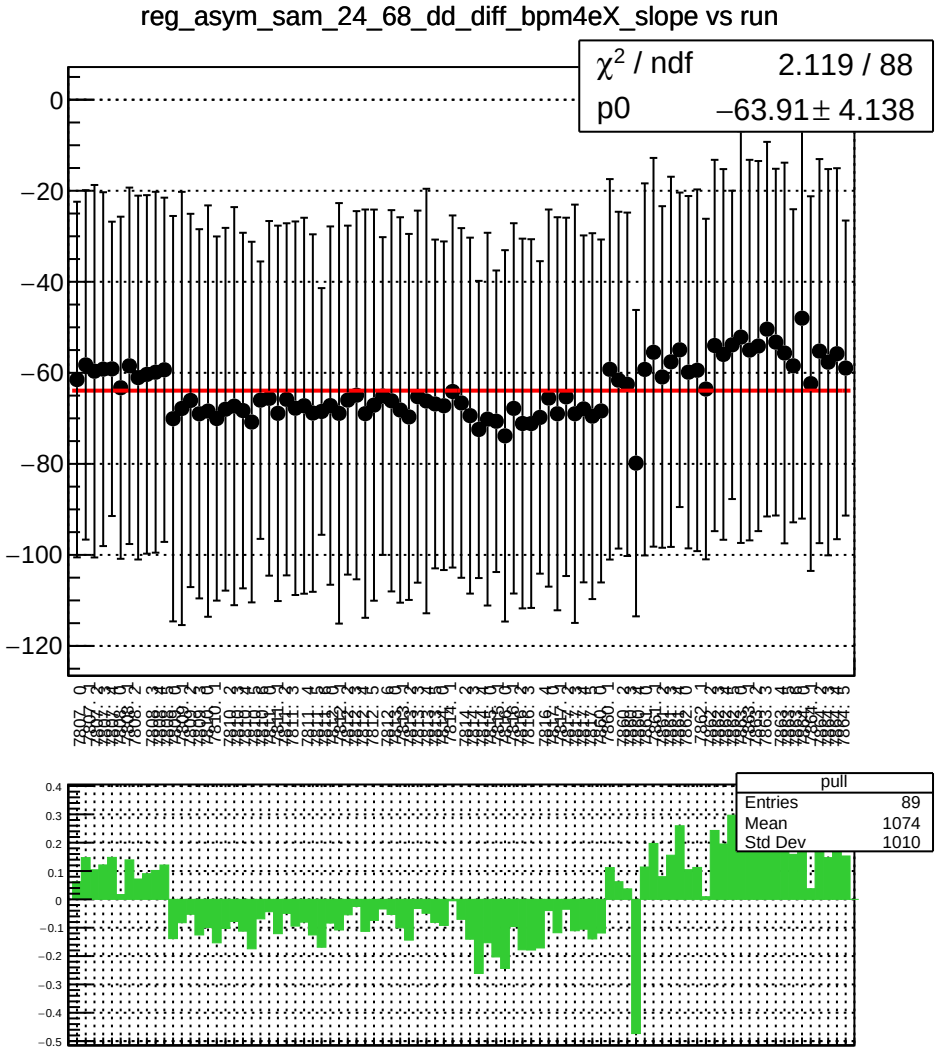

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 23.25 / 88
p0 0.2109 ± 0.0588
pull
Entries 89
Mean 181.1
Std Dev 112.2
pull1D
Entries 89
Mean 0.04092
Std Dev 0.5094

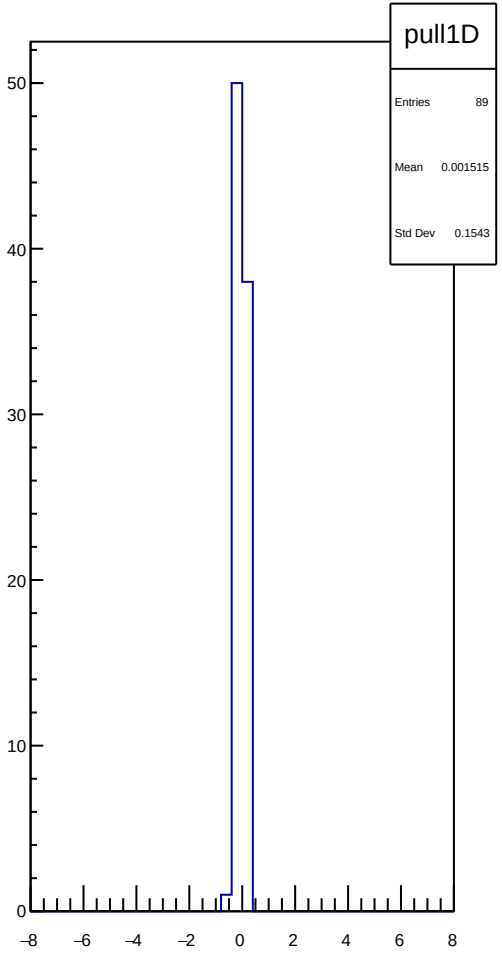

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 3.657 / 88
p0 −55.41 ± 4.582
pull
Entries 89
Mean 430.2
Std Dev 365.5

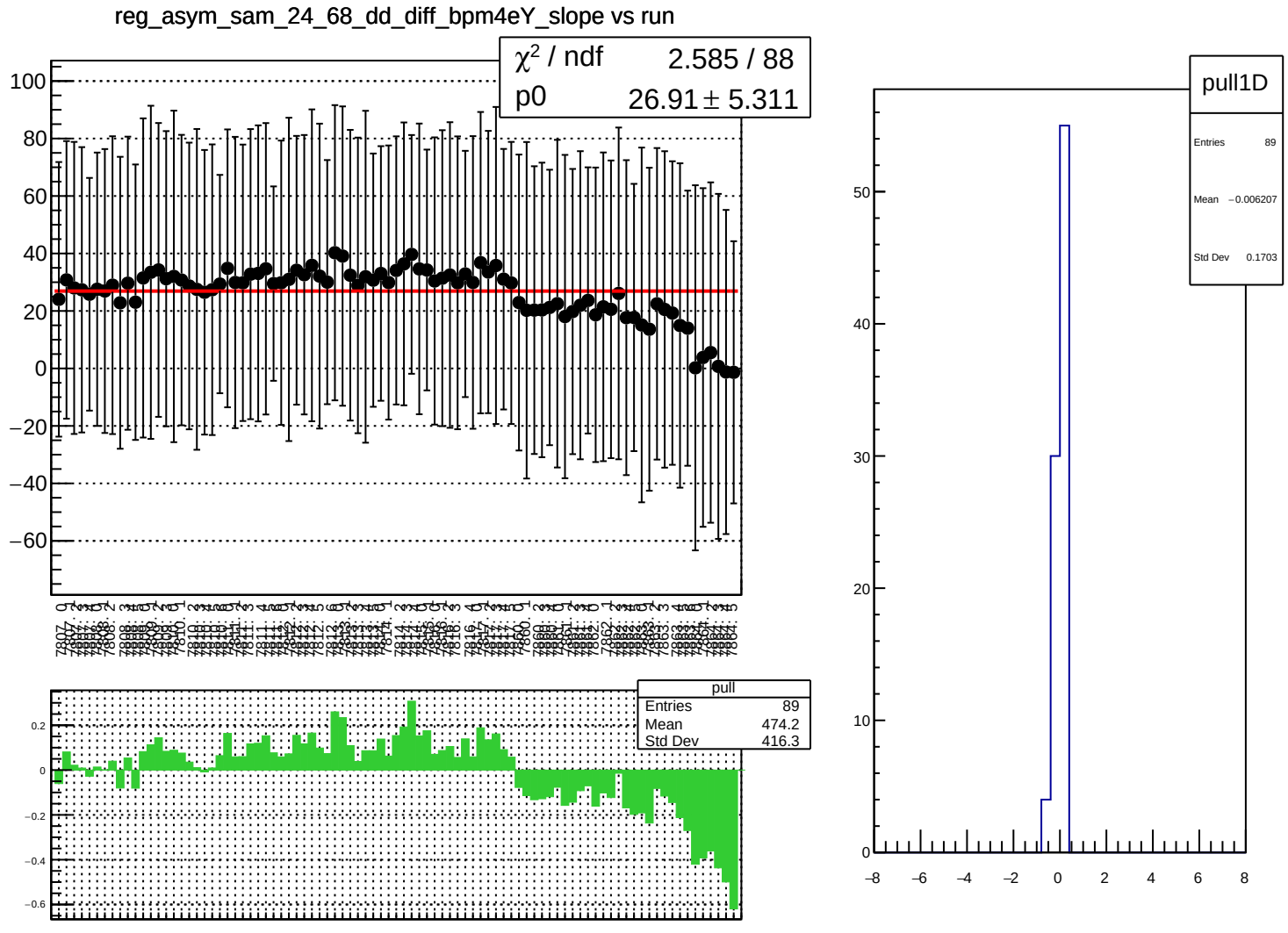

pull1D
Entries 89
Mean −0.005763
Std Dev 0.2026

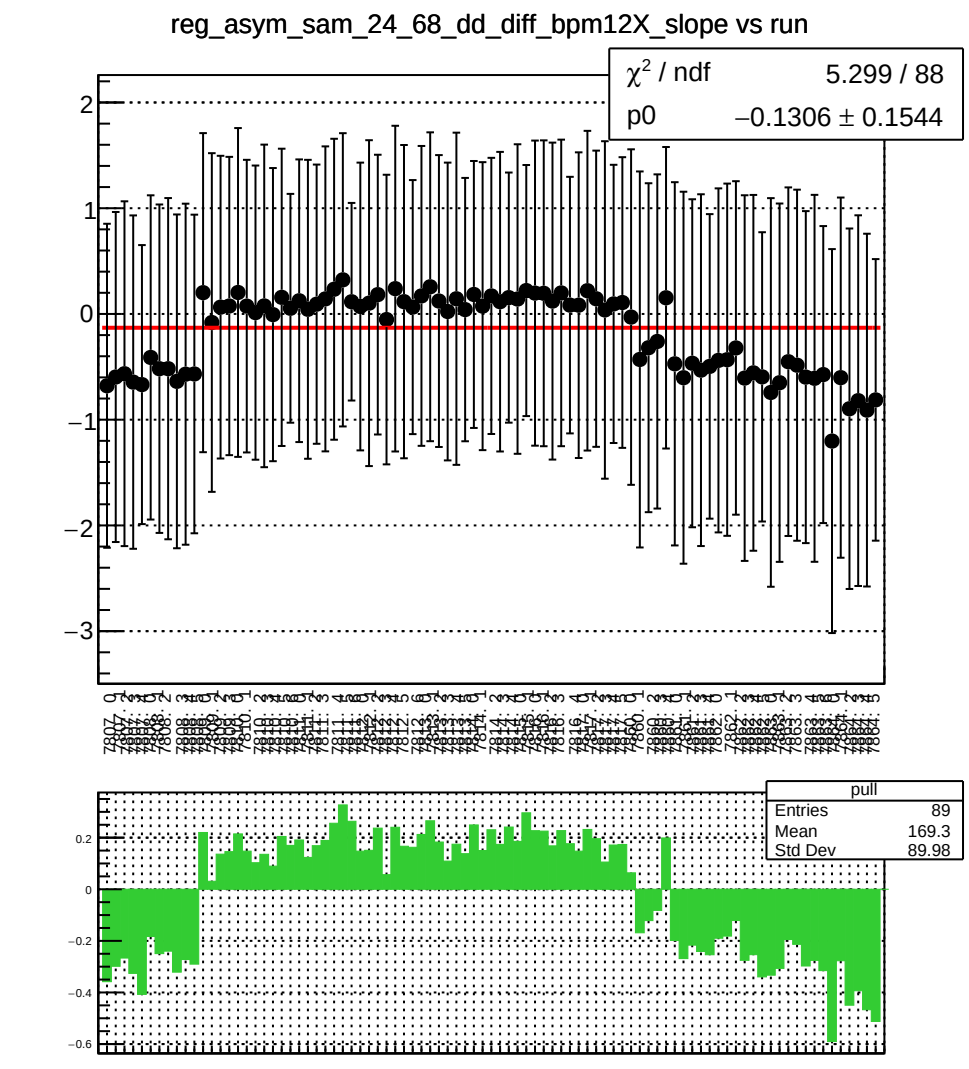

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.541 / 88
p0 −37.24 ± 4.659
pull
Entries 89
Mean 587.2
Std Dev 529.1

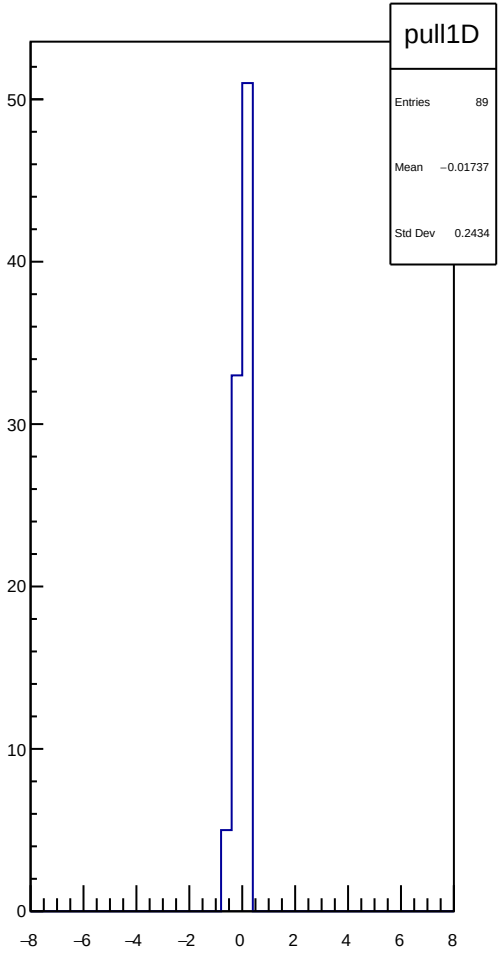

pull1D
Entries 89
Mean 0.004811
Std Dev 0.1689

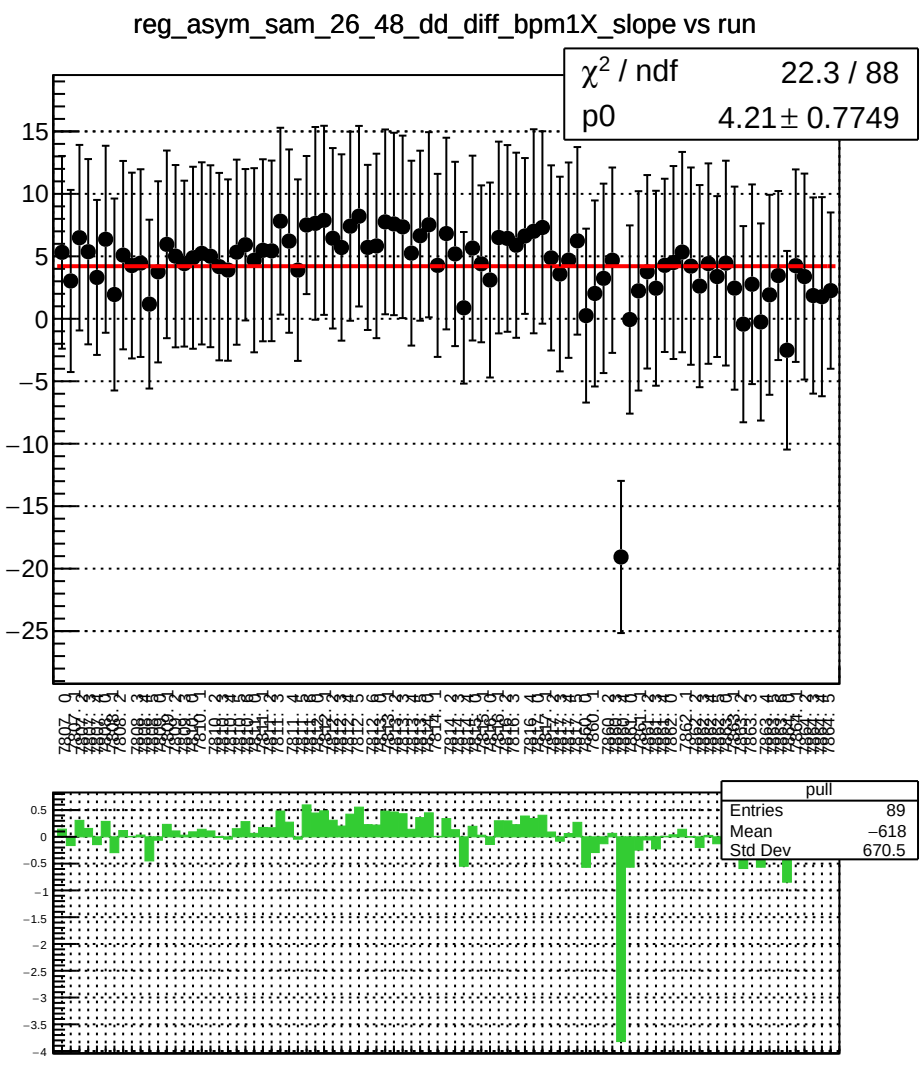

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.119 / 88
p0 −63.91 ± 4.138
pull
Entries 89
Mean 1074
Std Dev 1010

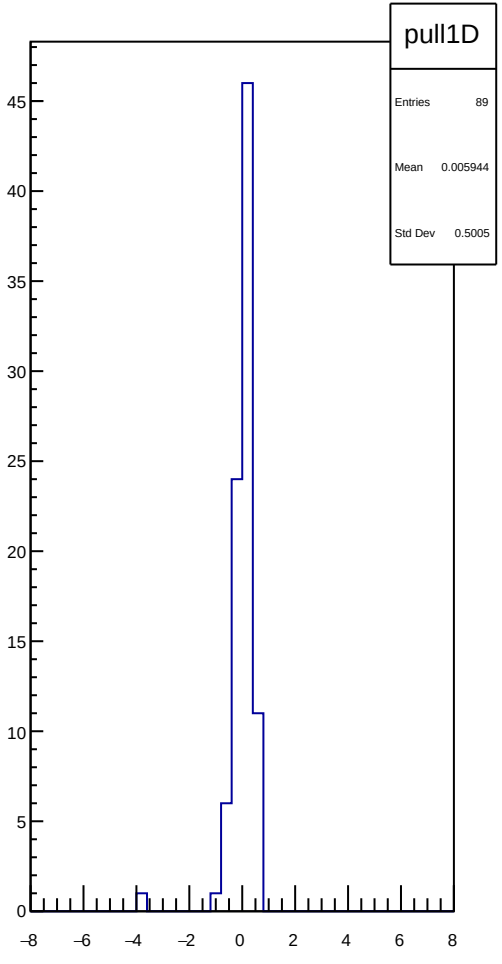

pull1D
Entries 89
Mean 0.001515
Std Dev 0.1543

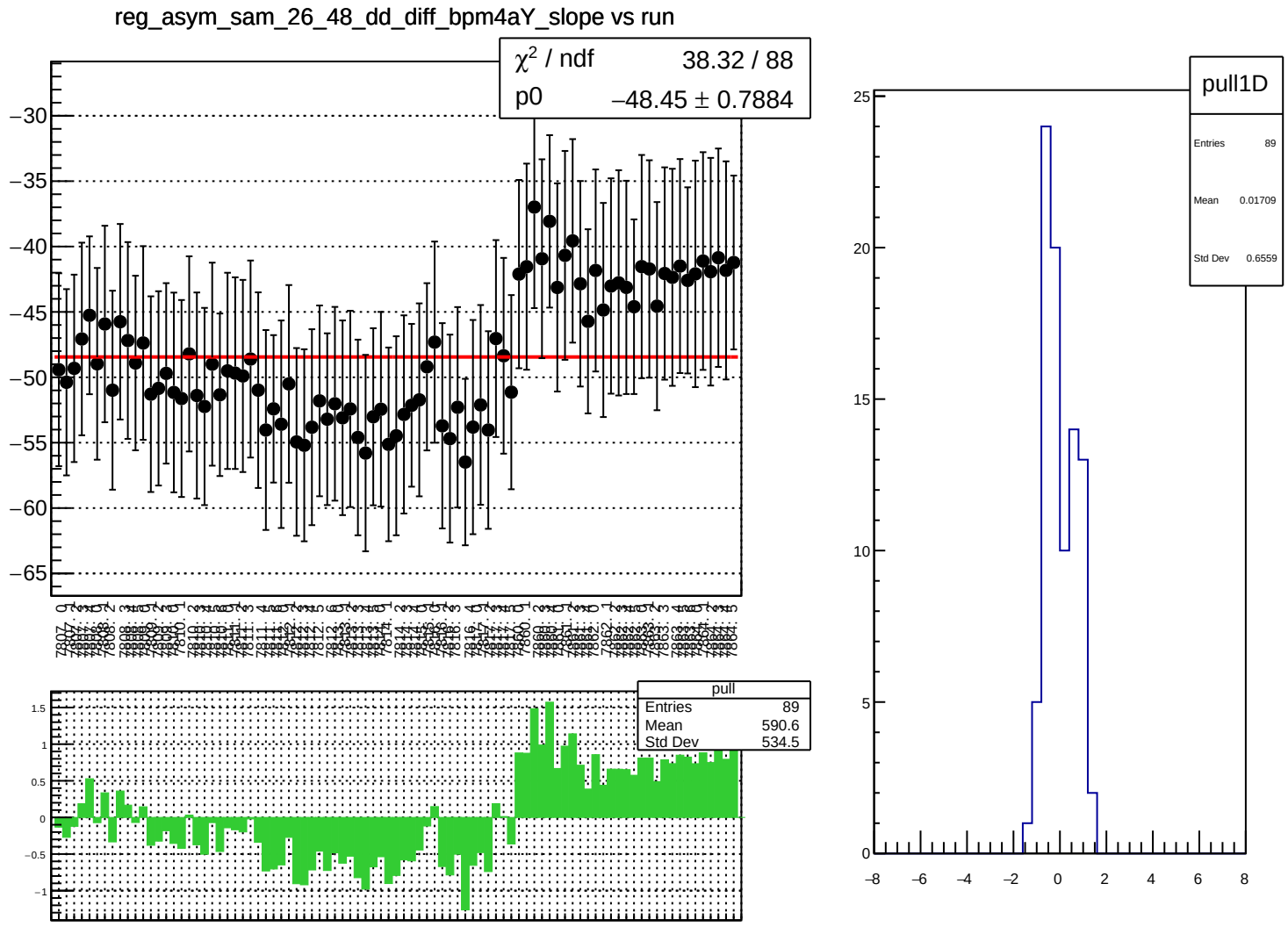

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.585 / 88
p0 26.91 ± 5.311
pull
Entries 89
Mean 474.2
Std Dev 416.3
pull1D
Entries 89
Mean −0.006207
Std Dev 0.1703

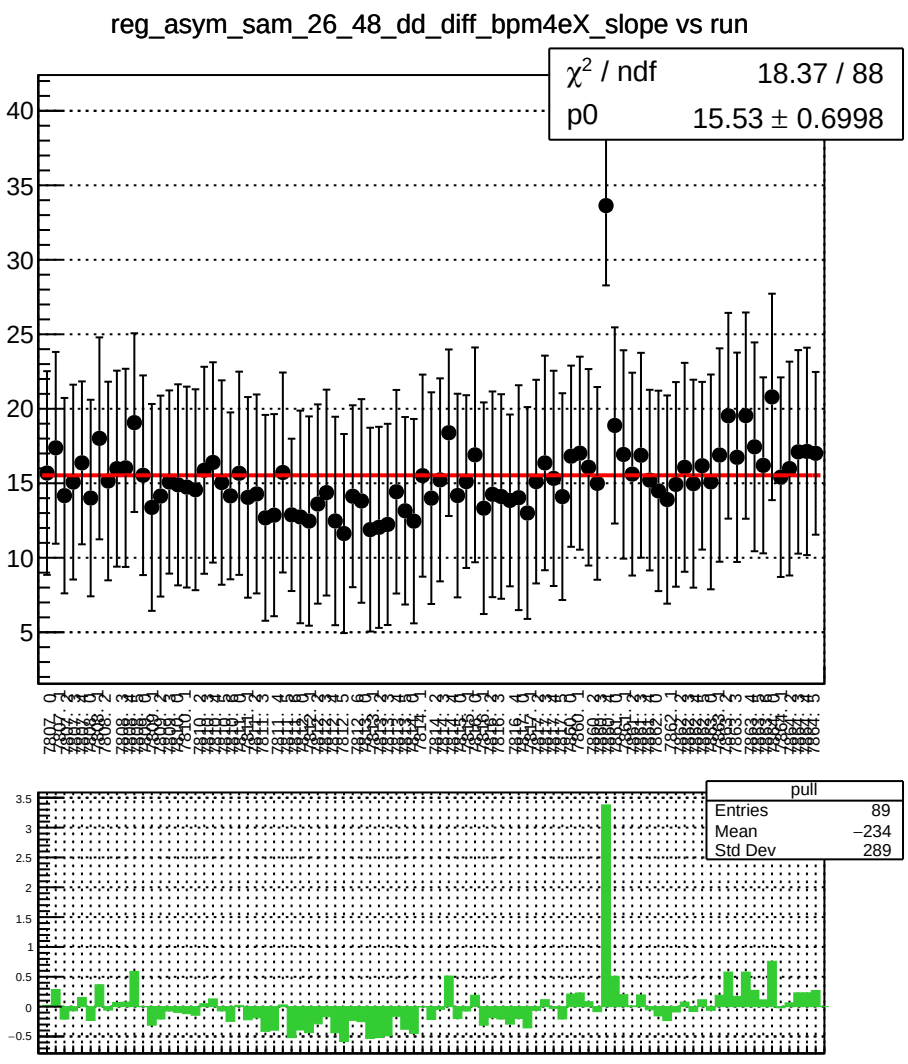

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 5.299 / 88
p0 −0.1306 ± 0.1544
pull
Entries 89
Mean 169.3
Std Dev 89.98

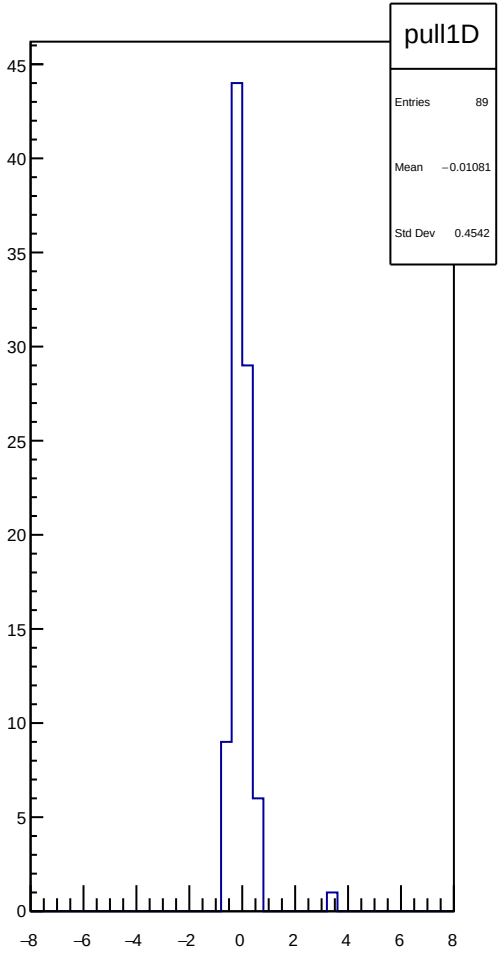

pull1D
Entries 89
Mean −0.01737
Std Dev 0.2434

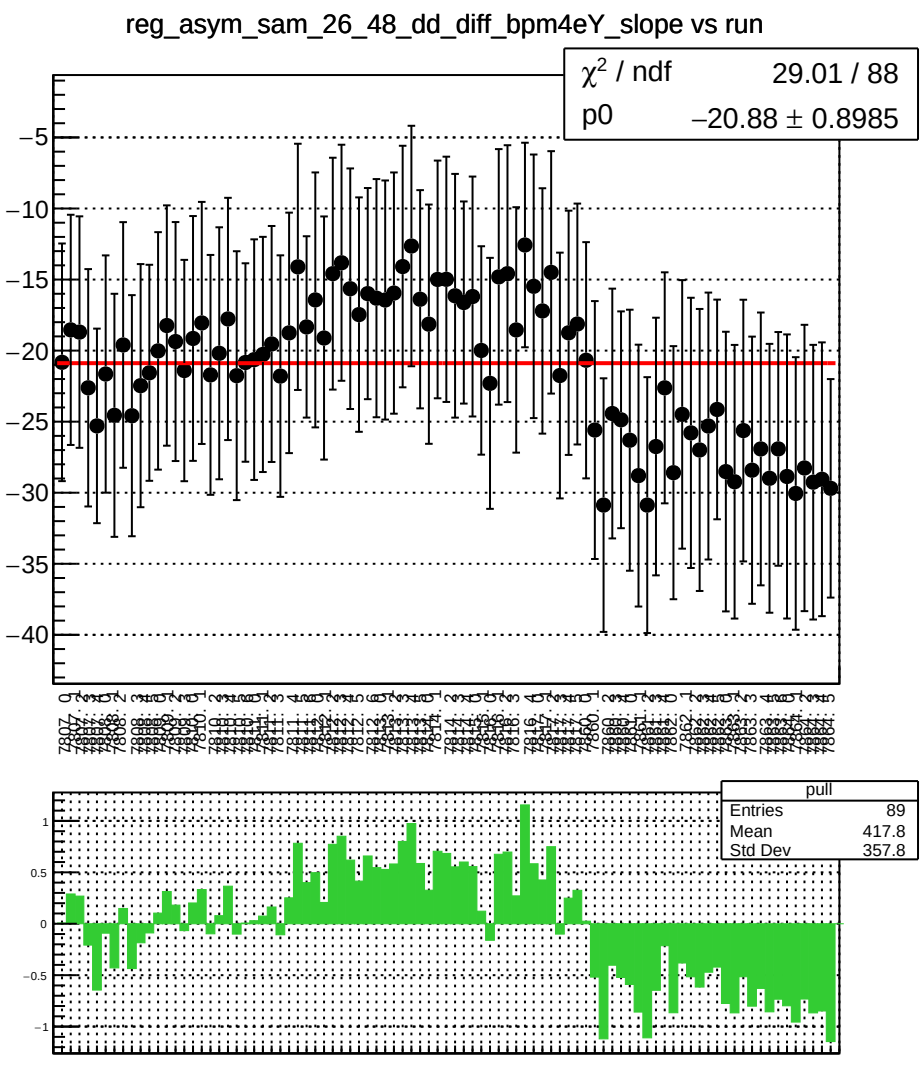

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 22.3 / 88
p0 4.21 ± 0.7749
pull
Entries 89
Mean −618
Std Dev 670.5

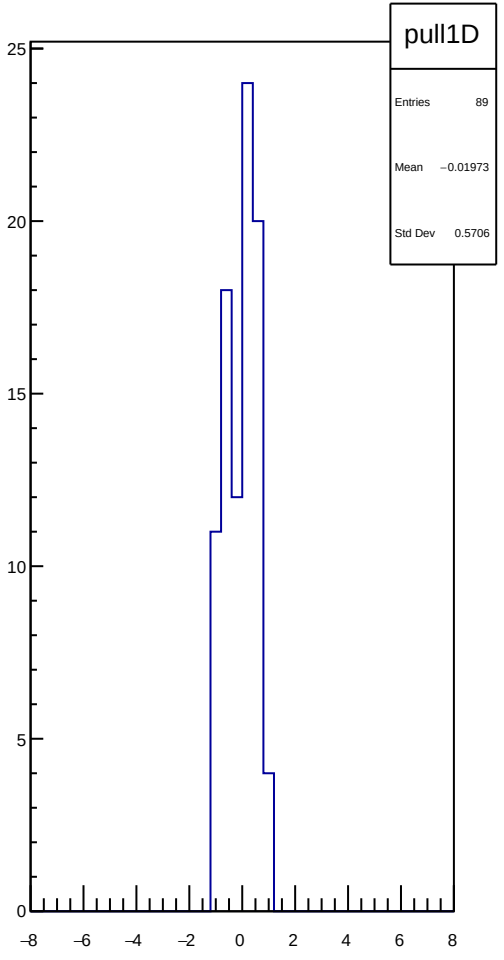

pull1D
Entries 89
Mean 0.005944
Std Dev 0.5005

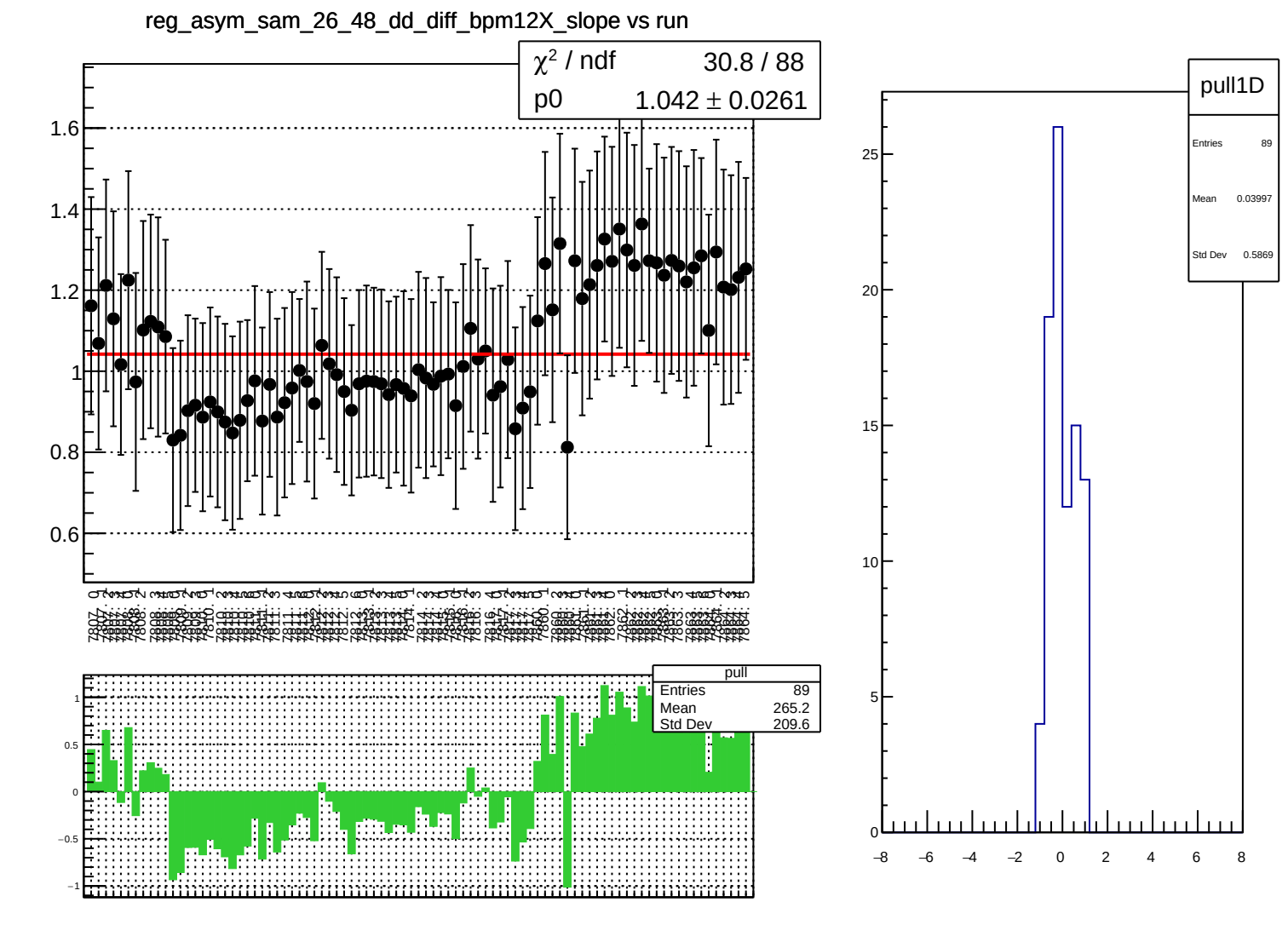

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.32 / 88
p0 −48.45 ± 0.7884
pull
Entries 89
Mean 590.6
Std Dev 534.5
pull1D
Entries 89
Mean 0.01709
Std Dev 0.6559

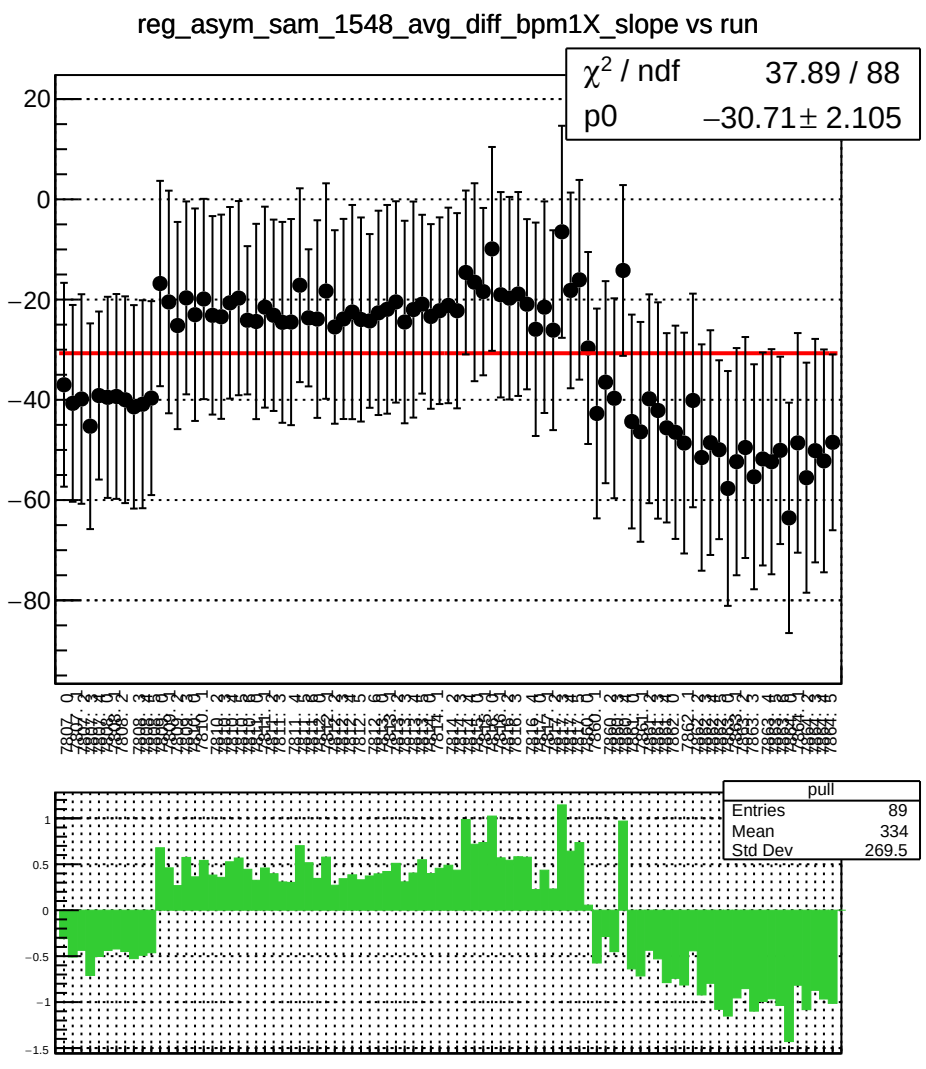

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.37 / 88
p0 15.53 ± 0.6998
pull
Entries 89
Mean −234
Std Dev 289

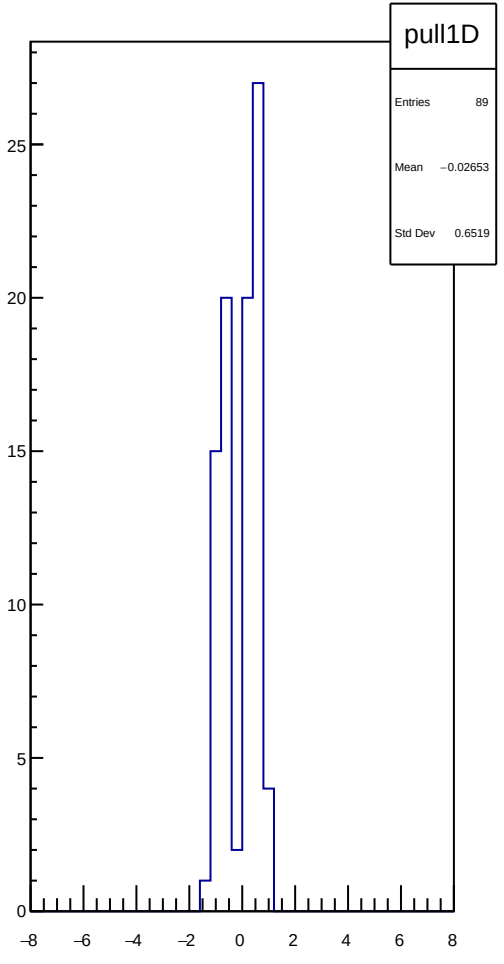

pull1D
Entries 89
Mean −0.01081
Std Dev 0.4542

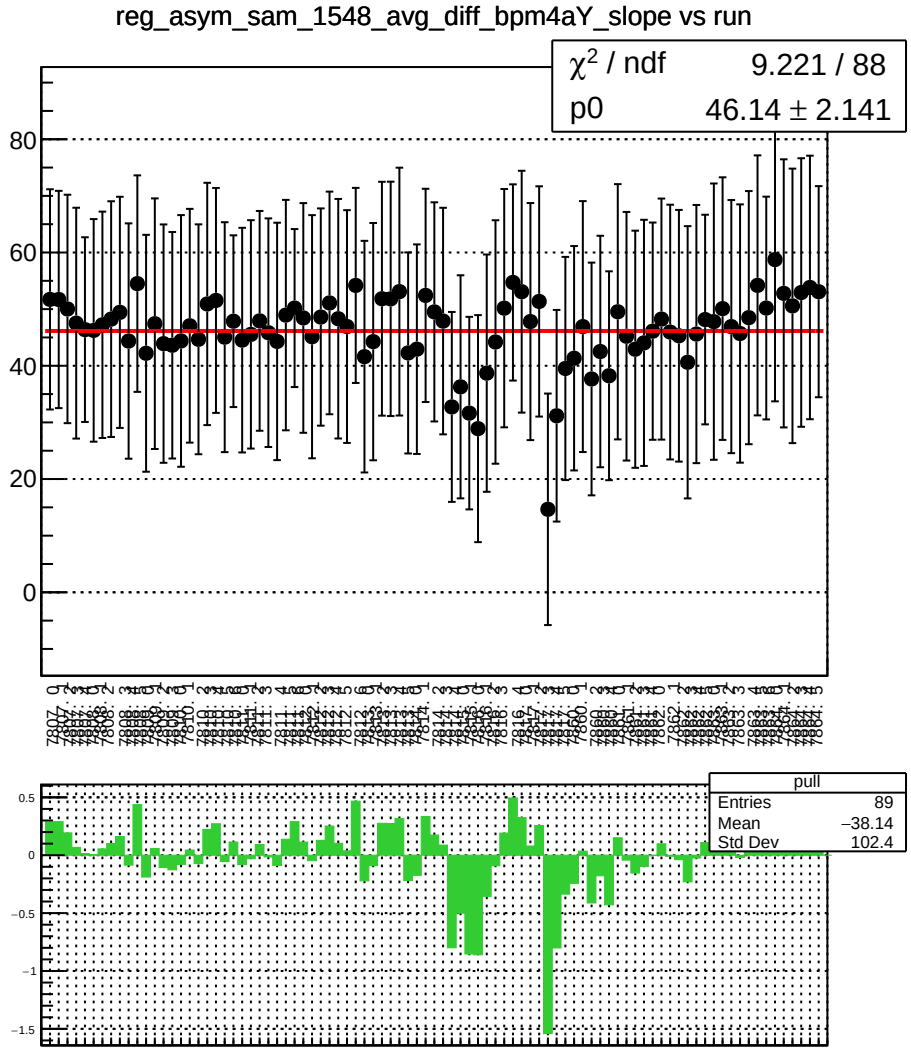

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.01 / 88
p0 −20.88 ± 0.8985
pull
Entries 89
Mean 417.8
Std Dev 357.8

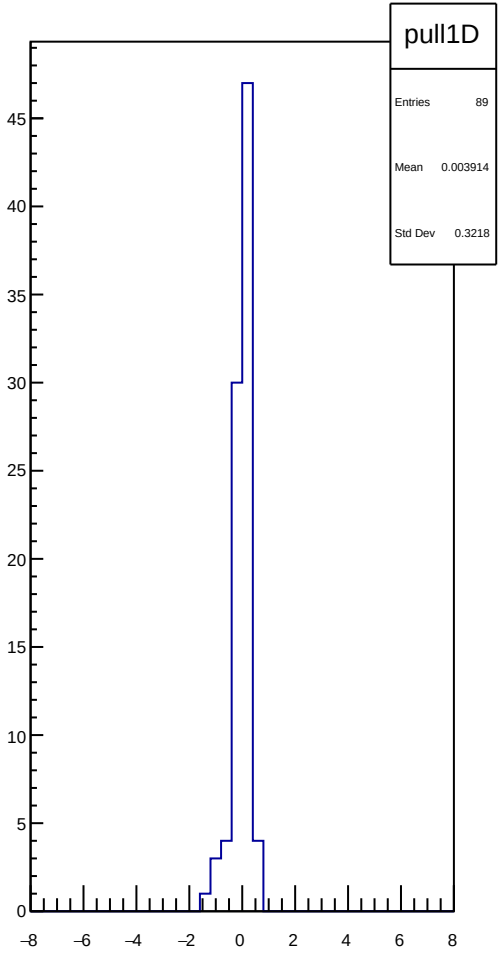

pull1D
Entries 89
Mean −0.01973
Std Dev 0.5706

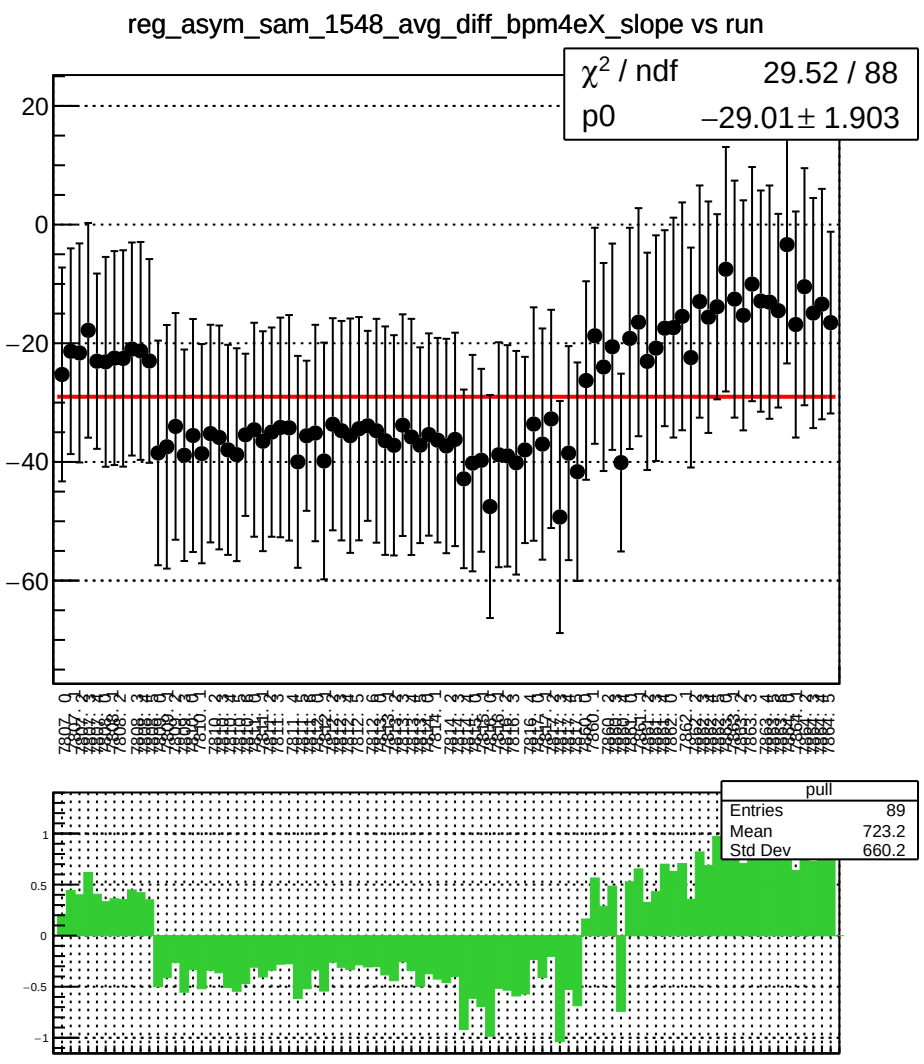

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 30.8 / 88
p0 1.042 ± 0.0261
pull
Entries 89
Mean 265.2
Std Dev 209.6
pull1D
Entries 89
Mean 0.03997
Std Dev 0.5869

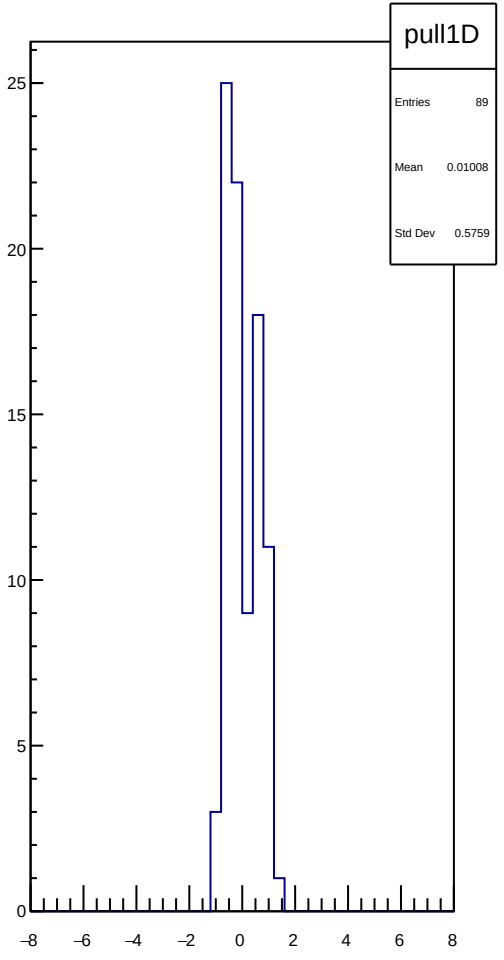

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 37.89 / 88
p0 −30.71 ± 2.105
pull
Entries 89
Mean 334
Std Dev 269.5

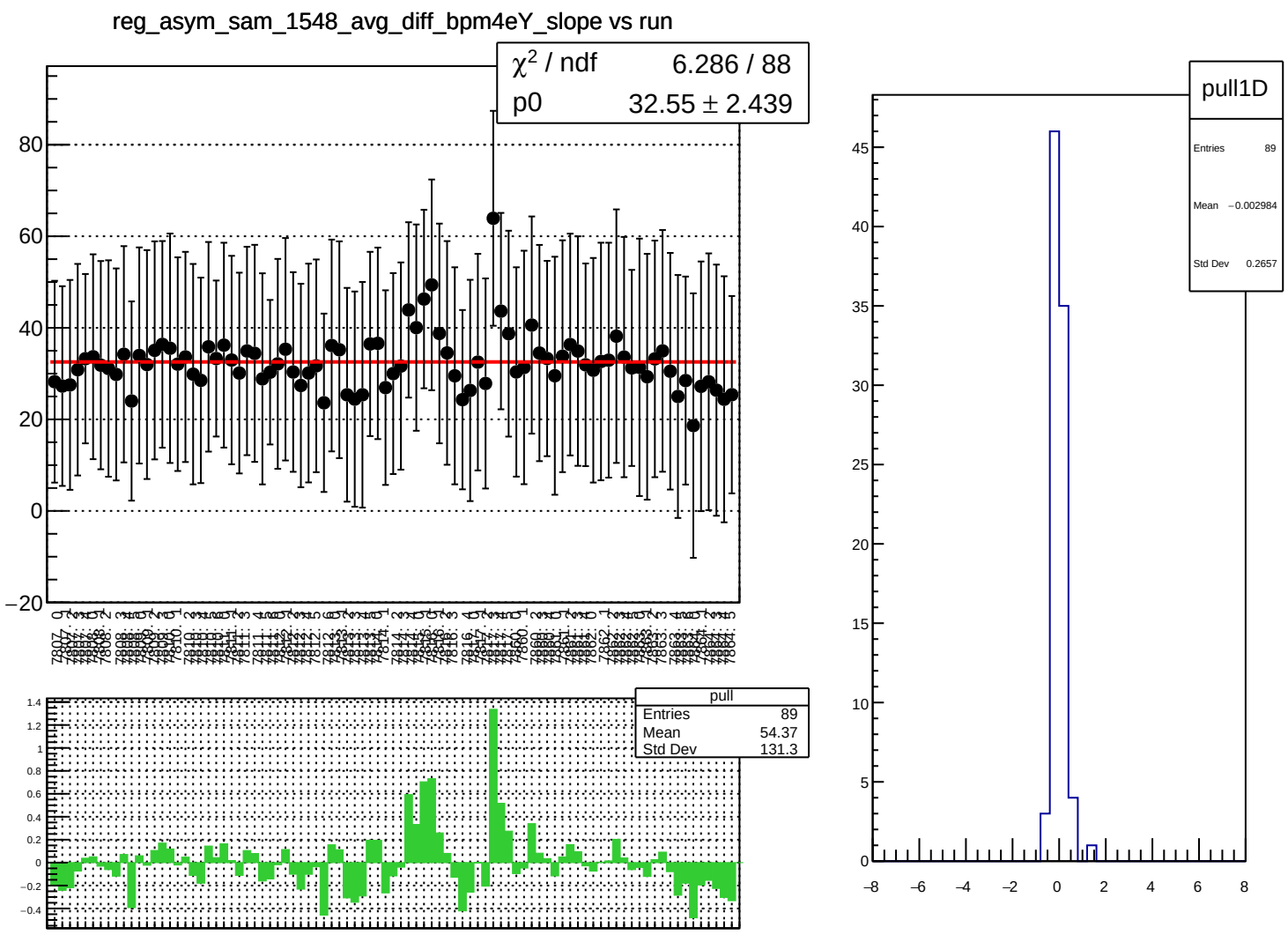

pull1D
Entries 89
Mean −0.02653
Std Dev 0.6519

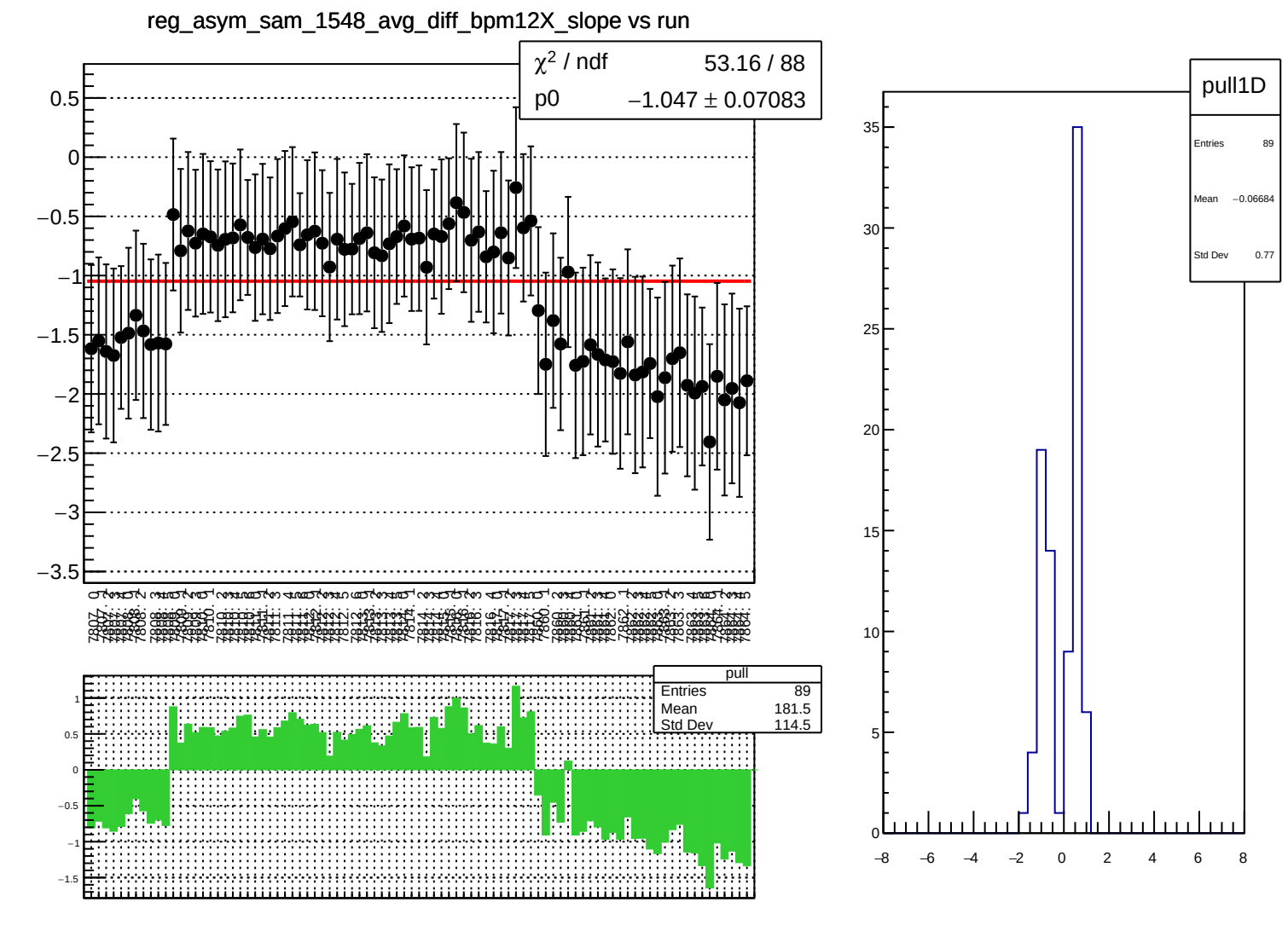

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.221 / 88
p0 46.14 ± 2.141
pull
Entries 89
Mean −38.14
Std Dev 102.4

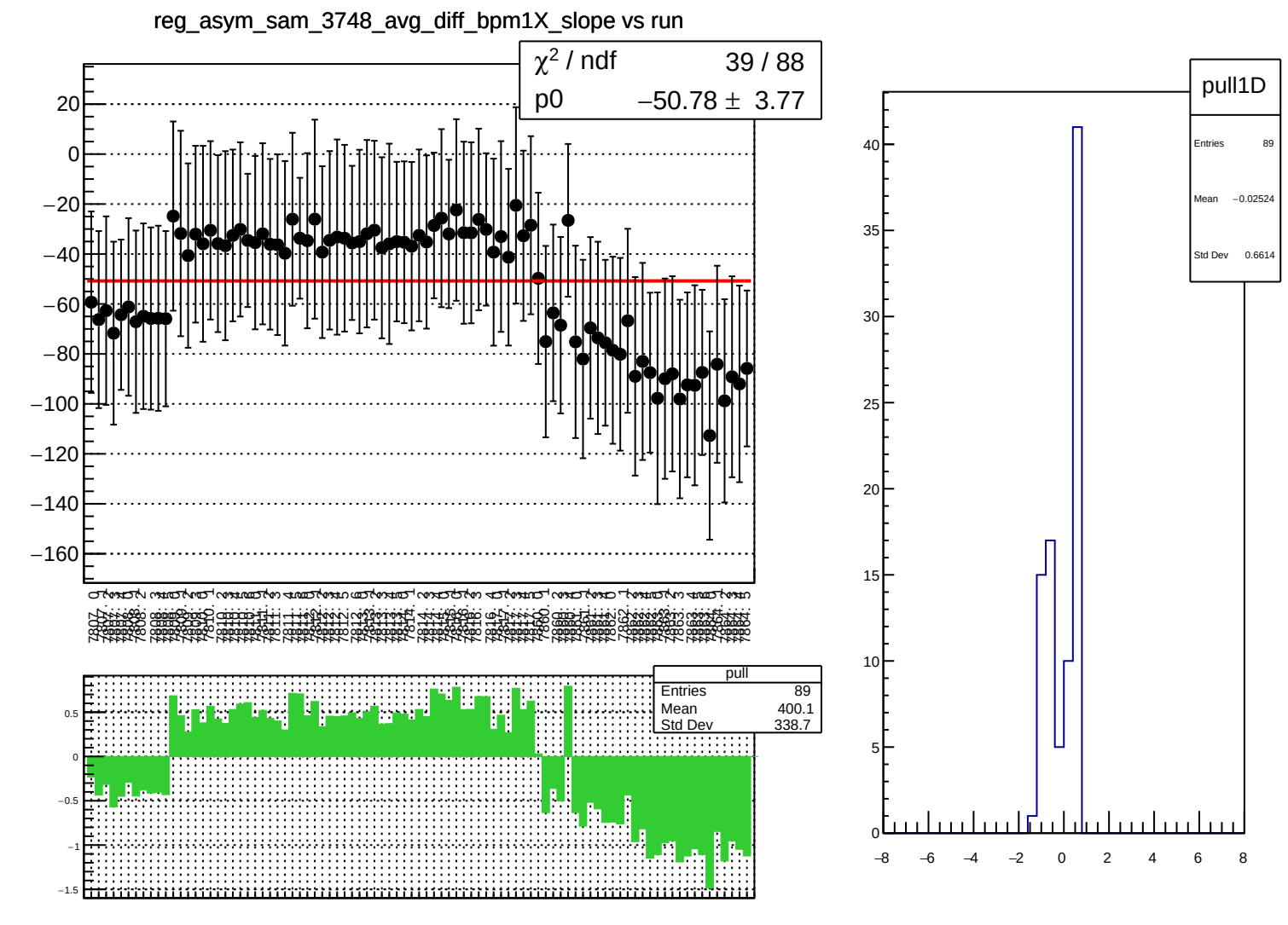

pull1D
Entries 89
Mean 0.003914
Std Dev 0.3218

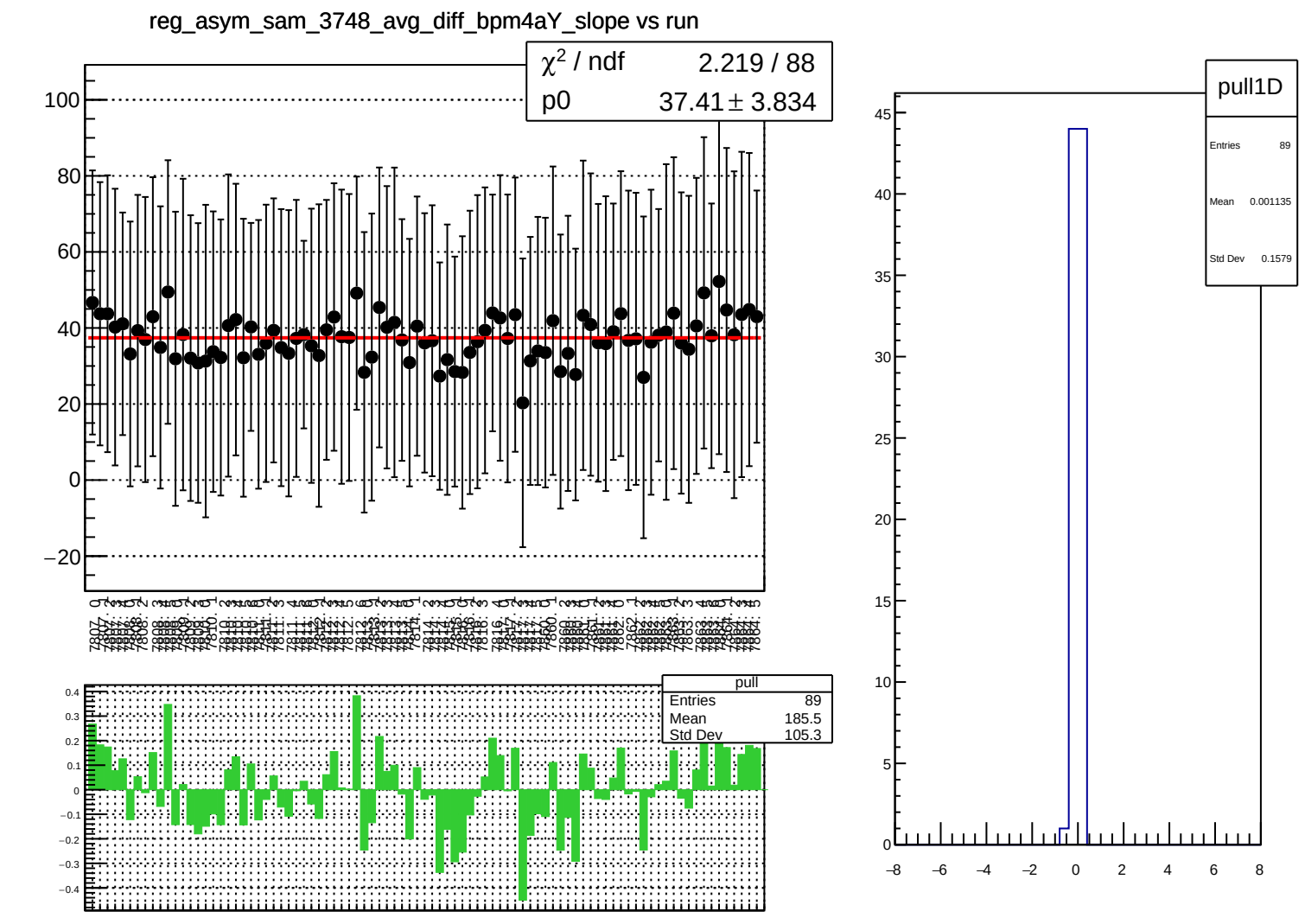

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.52 / 88
p0 −29.01± 1.903
pull
Entries 89
Mean 723.2
Std Dev 660.2

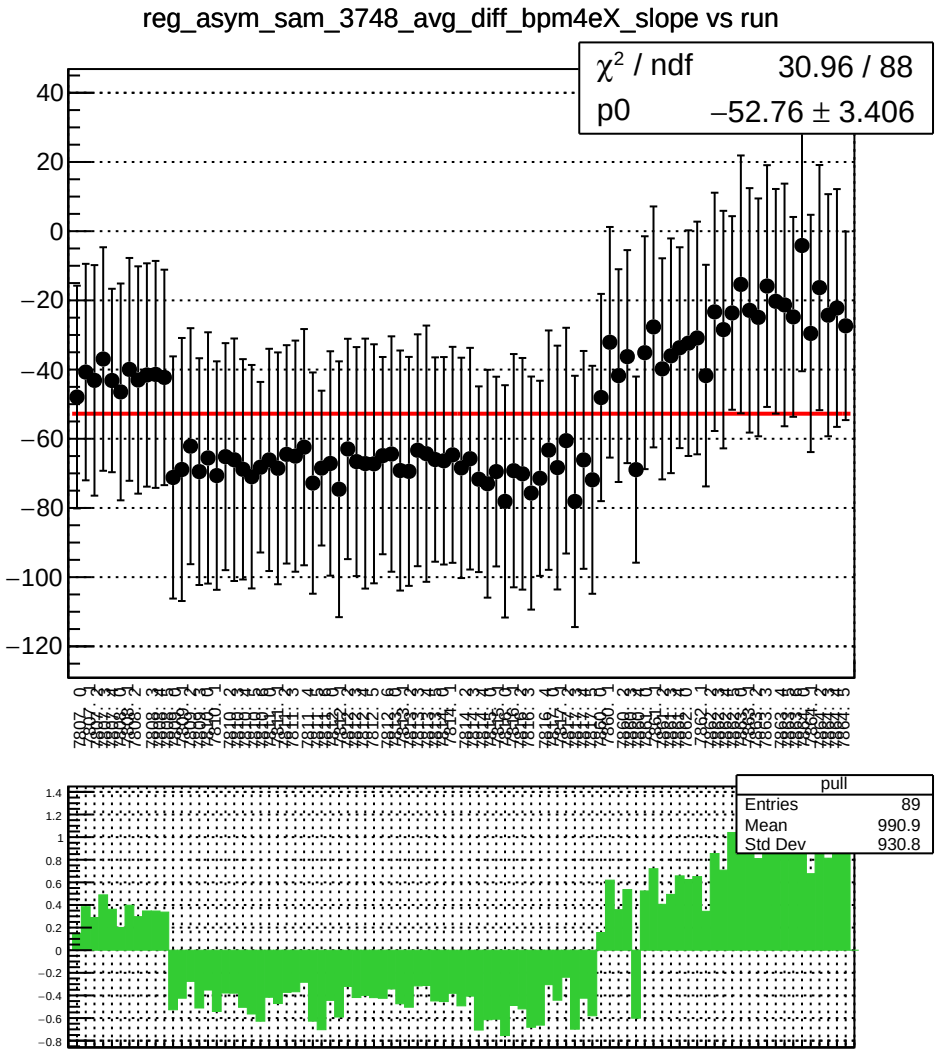

pull1D
Entries 89
Mean 0.01008
Std Dev 0.5759

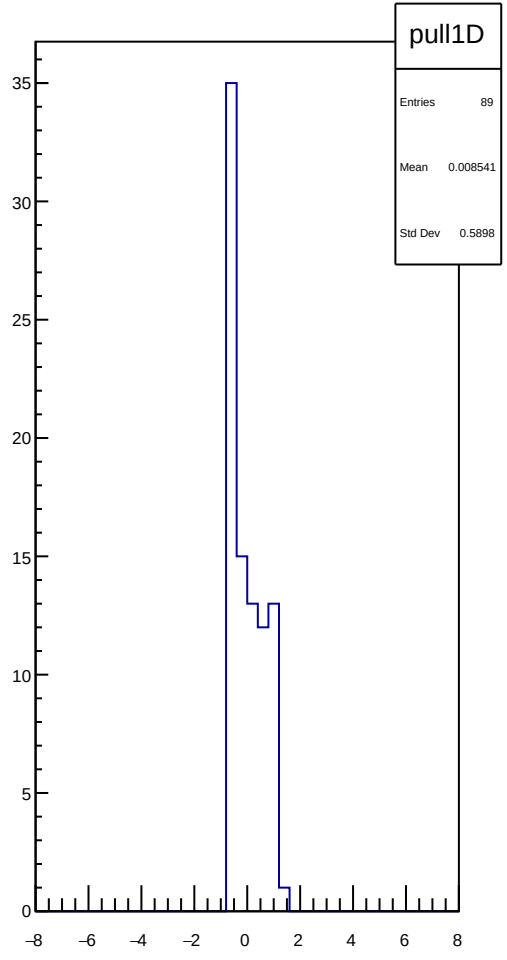

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.286 / 88
p0 32.55 ± 2.439
pull
Entries 89
Mean 54.37
Std Dev 131.3
pull1D
Entries 89
Mean −0.002984
Std Dev 0.2657

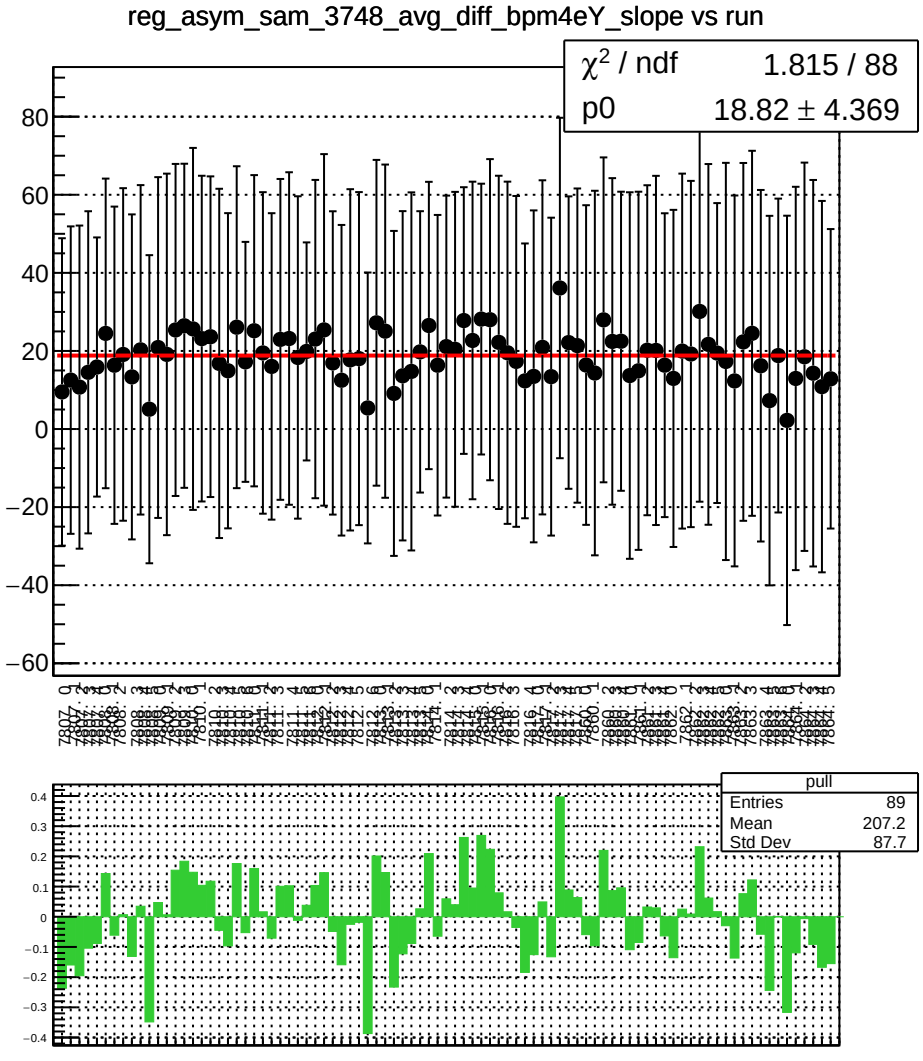

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 53.16 / 88
p0 −1.047 ± 0.07083
pull
Entries 89
Mean 181.5
Std Dev 114.5
pull1D
Entries 89
Mean −0.06684
Std Dev 0.77

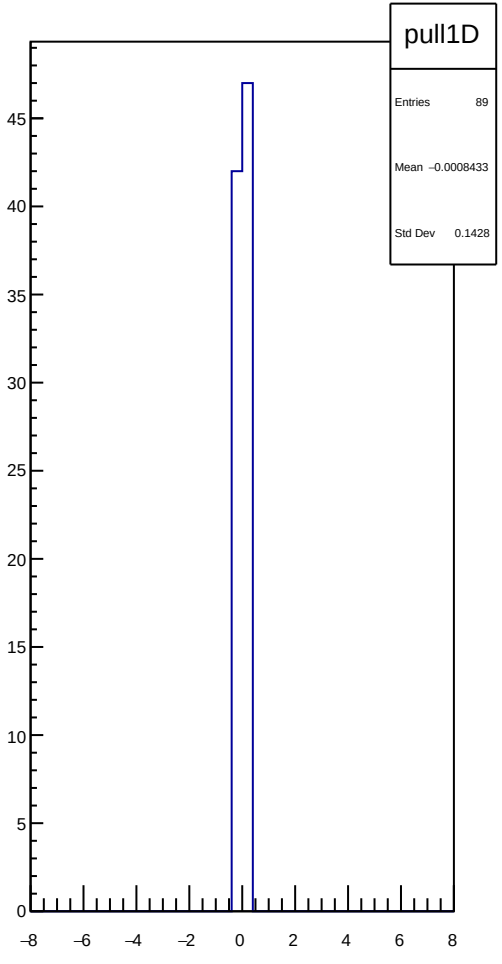

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 39 / 88
p0 −50.78 ± 3.77
pull
Entries 89
Mean 400.1
Std Dev 338.7
pull1D
Entries 89
Mean −0.02524
Std Dev 0.6614

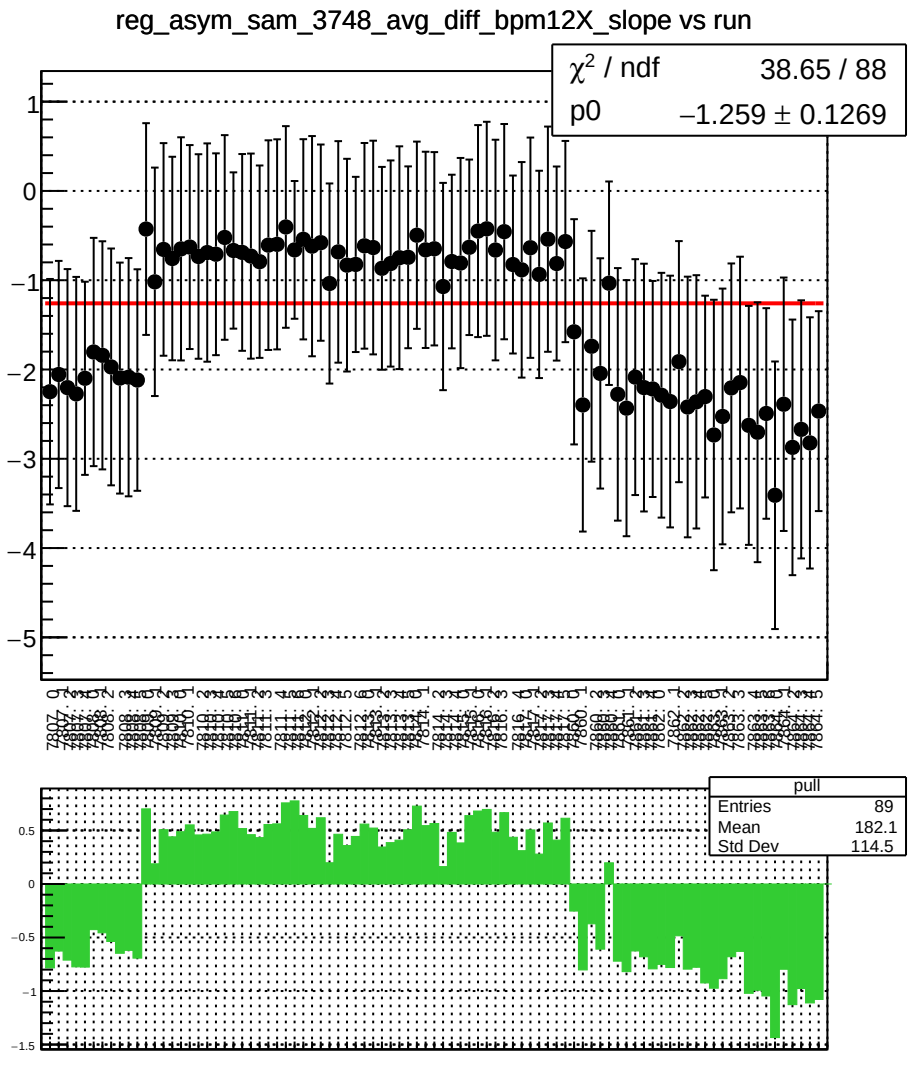

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.219 / 88
p0 37.41 ± 3.834
pull
Entries 89
Mean 185.5
Std Dev 105.3
pull1D
Entries 89
Mean 0.001135
Std Dev 0.1579

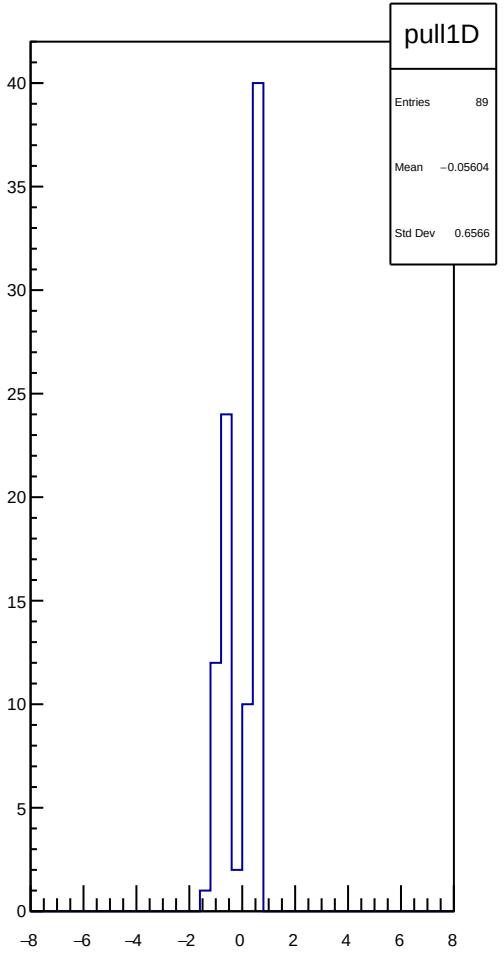

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.96 / 88
p0 −52.76 ± 3.406
pull
Entries 89
Mean 990.9
Std Dev 930.8

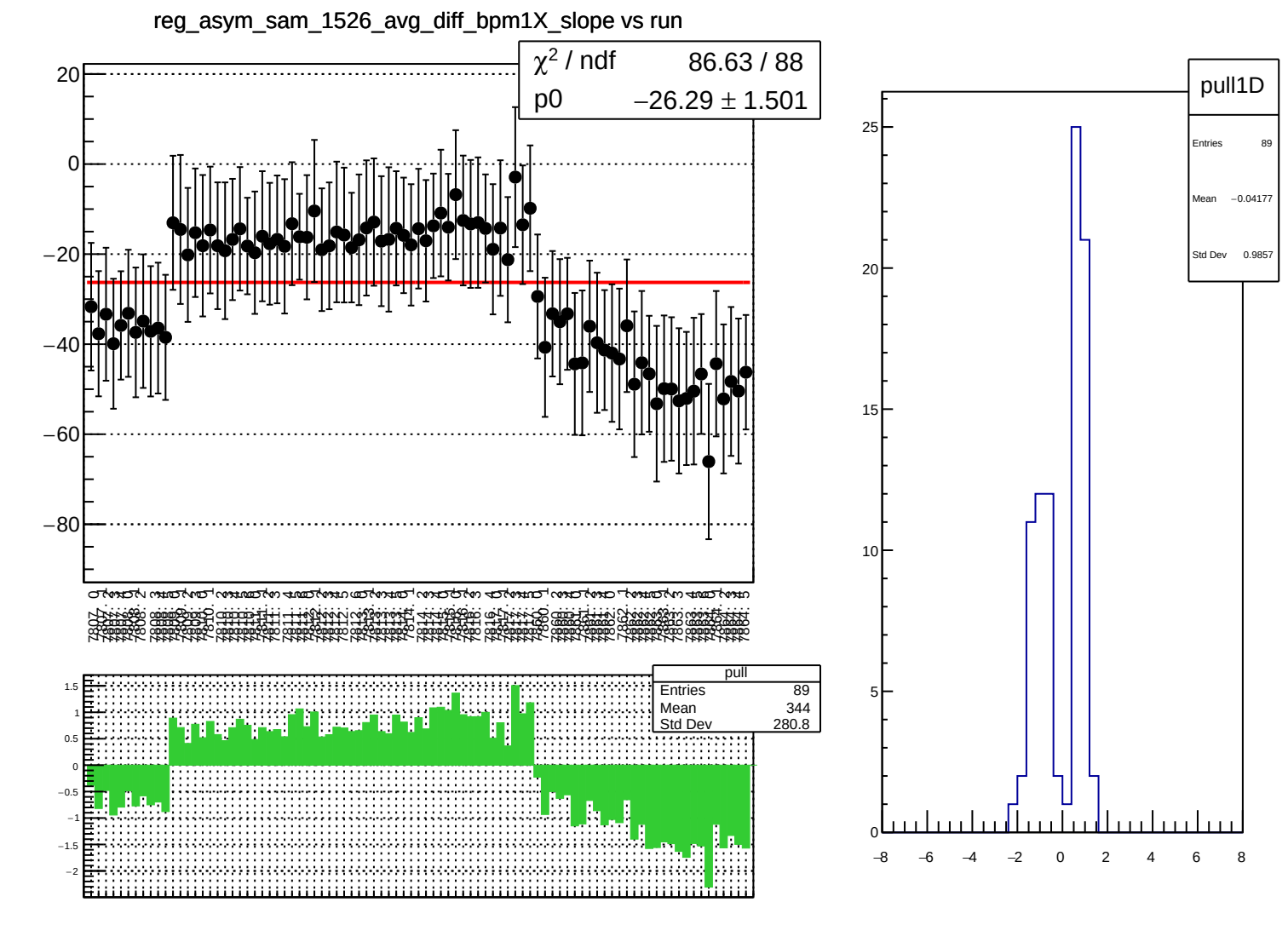

pull1D
Entries 89
Mean 0.008541
Std Dev 0.5898

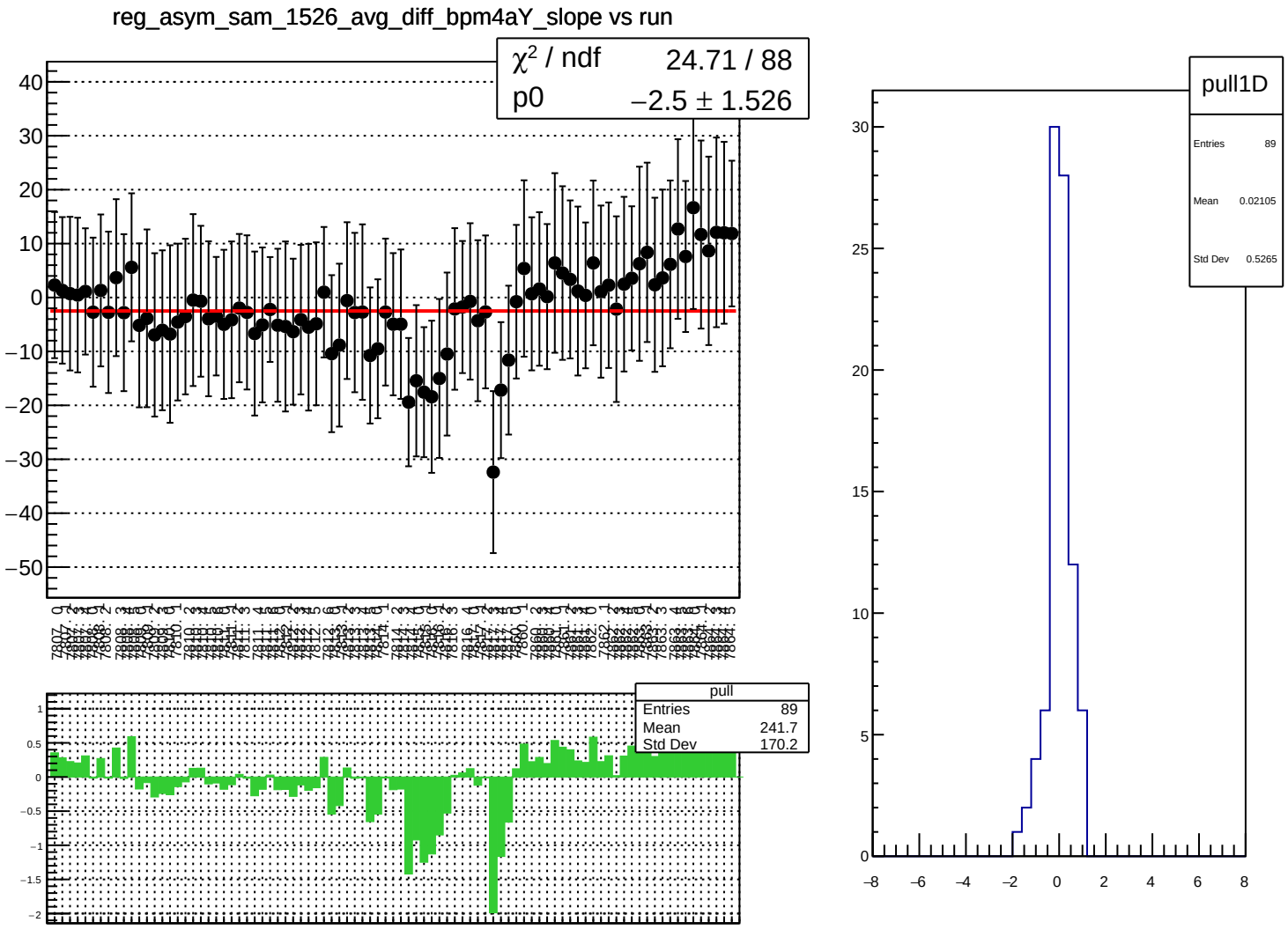

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.815 / 88
p0 18.82 ± 4.369
pull
Entries 89
Mean 207.2
Std Dev 87.7

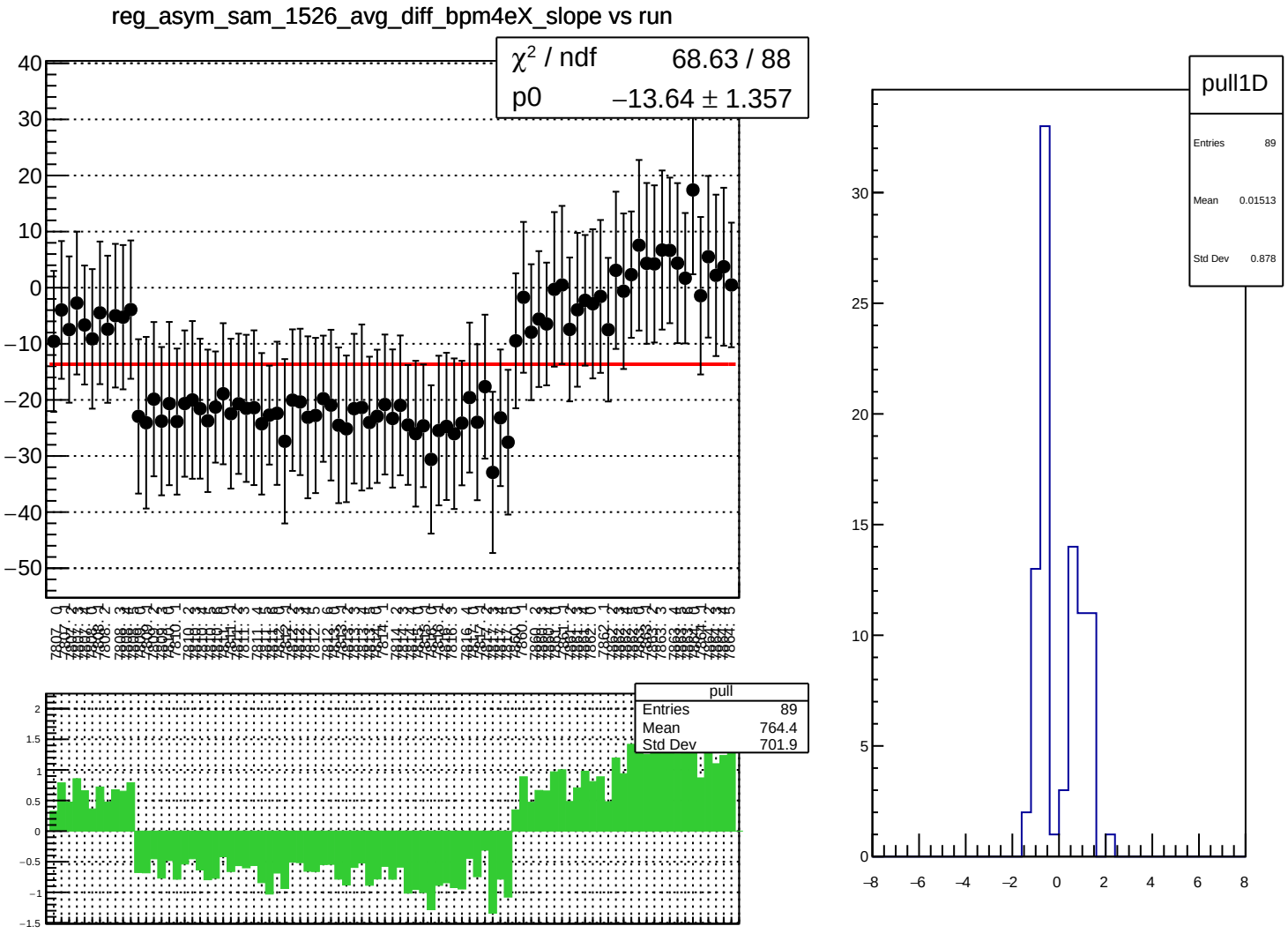

pull1D
Entries 89
Mean −0.0008433
Std Dev 0.1428

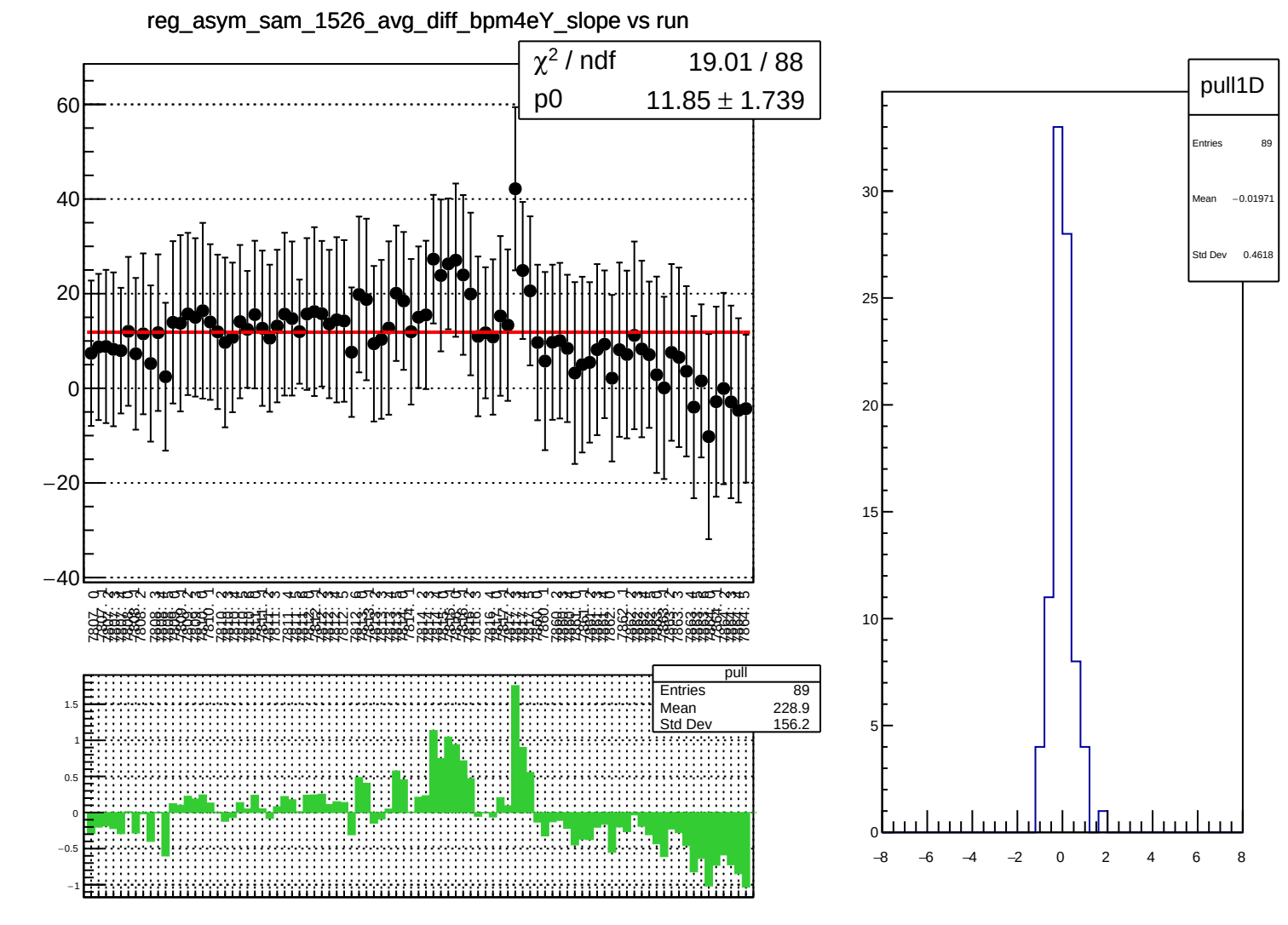

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 38.65 / 88
p0 −1.259 ± 0.1269
pull
Entries 89
Mean 182.1
Std Dev 114.5

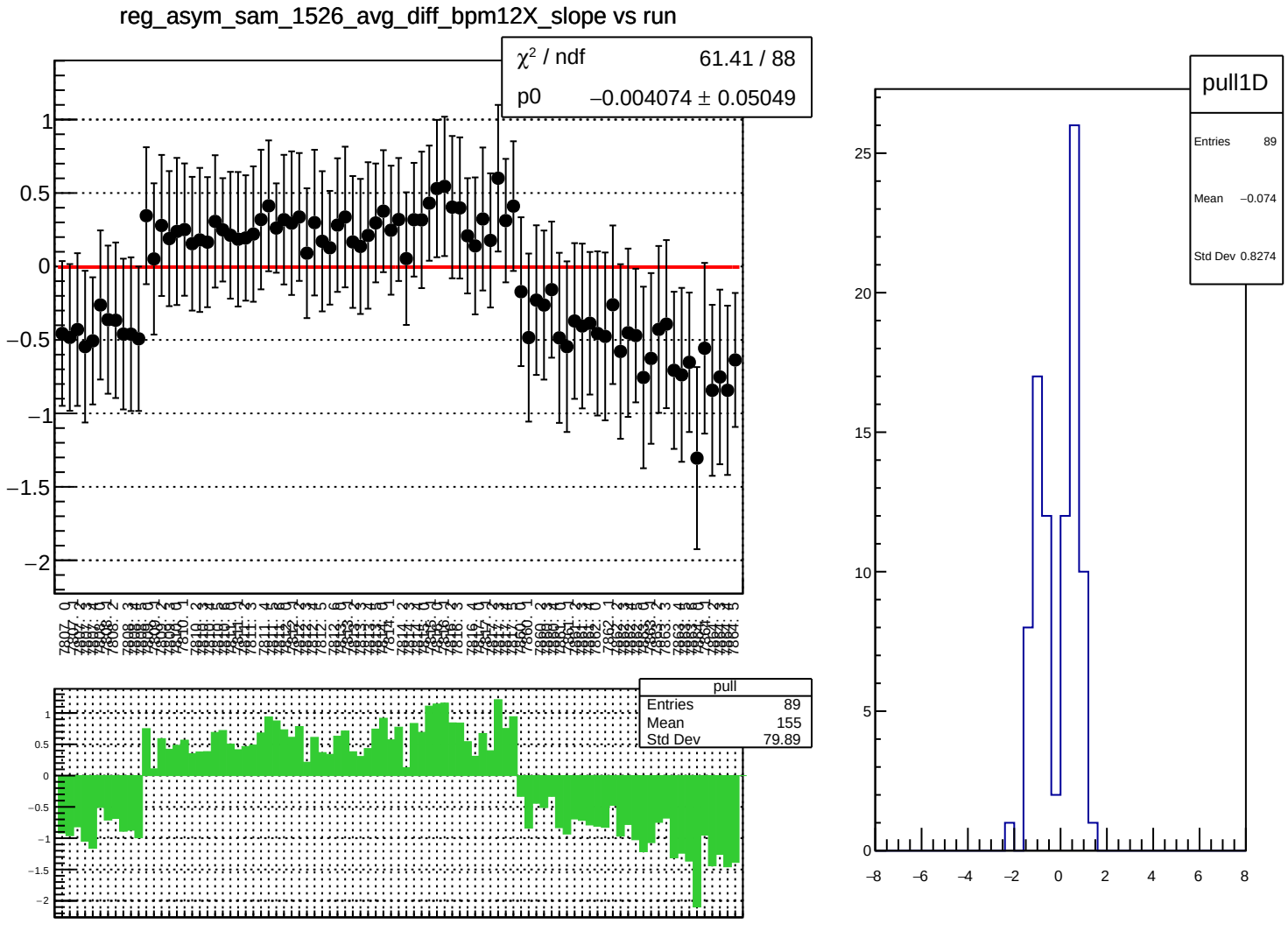

pull1D
Entries 89
Mean −0.05604
Std Dev 0.6566

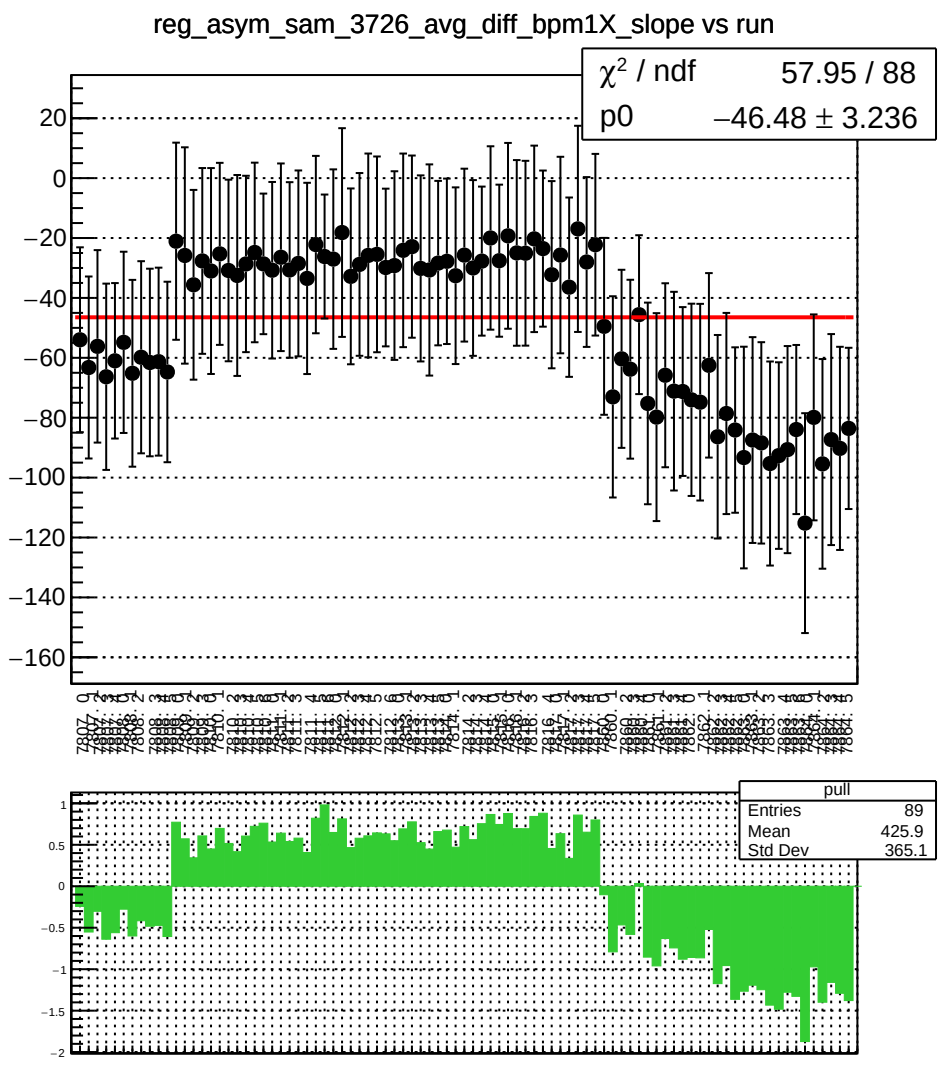

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 86.63 / 88
p0 −26.29 ± 1.501
pull
Entries 89
Mean 344
Std Dev 280.8
pull1D
Entries 89
Mean −0.04177
Std Dev 0.9857

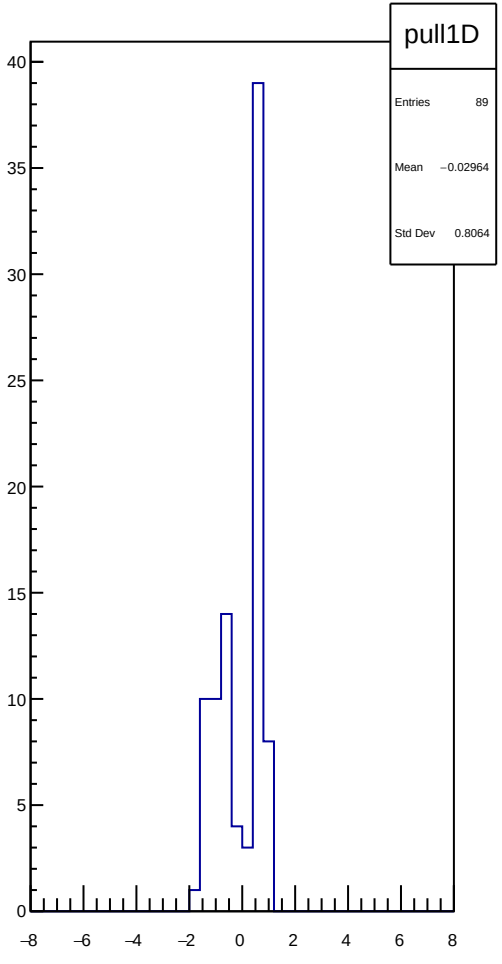

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.71 / 88
p0 −2.5 ± 1.526
pull
Entries 89
Mean 241.7
Std Dev 170.2
pull1D
Entries 89
Mean 0.02105
Std Dev 0.5265

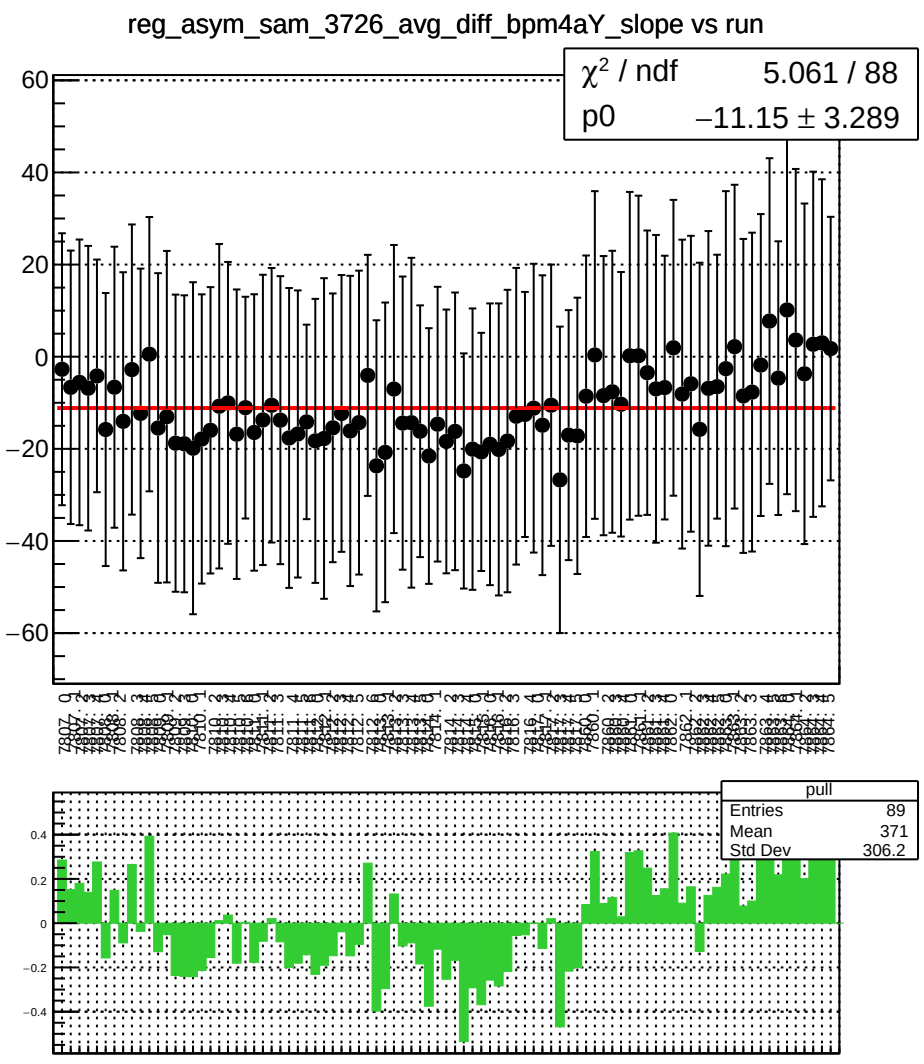

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 68.63 / 88
p0 −13.64 ± 1.357
pull
Entries 89
Mean 764.4
Std Dev 701.9
pull1D
Entries 89
Mean 0.01513
Std Dev 0.878

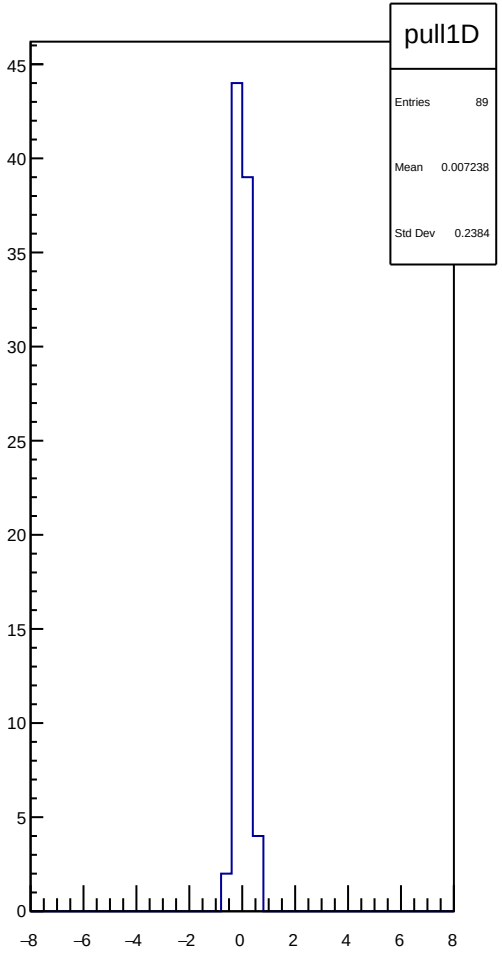

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.01 / 88
p0 11.85 ± 1.739
pull
Entries 89
Mean 228.9
Std Dev 156.2
pull1D
Entries 89
Mean −0.01971
Std Dev 0.4618

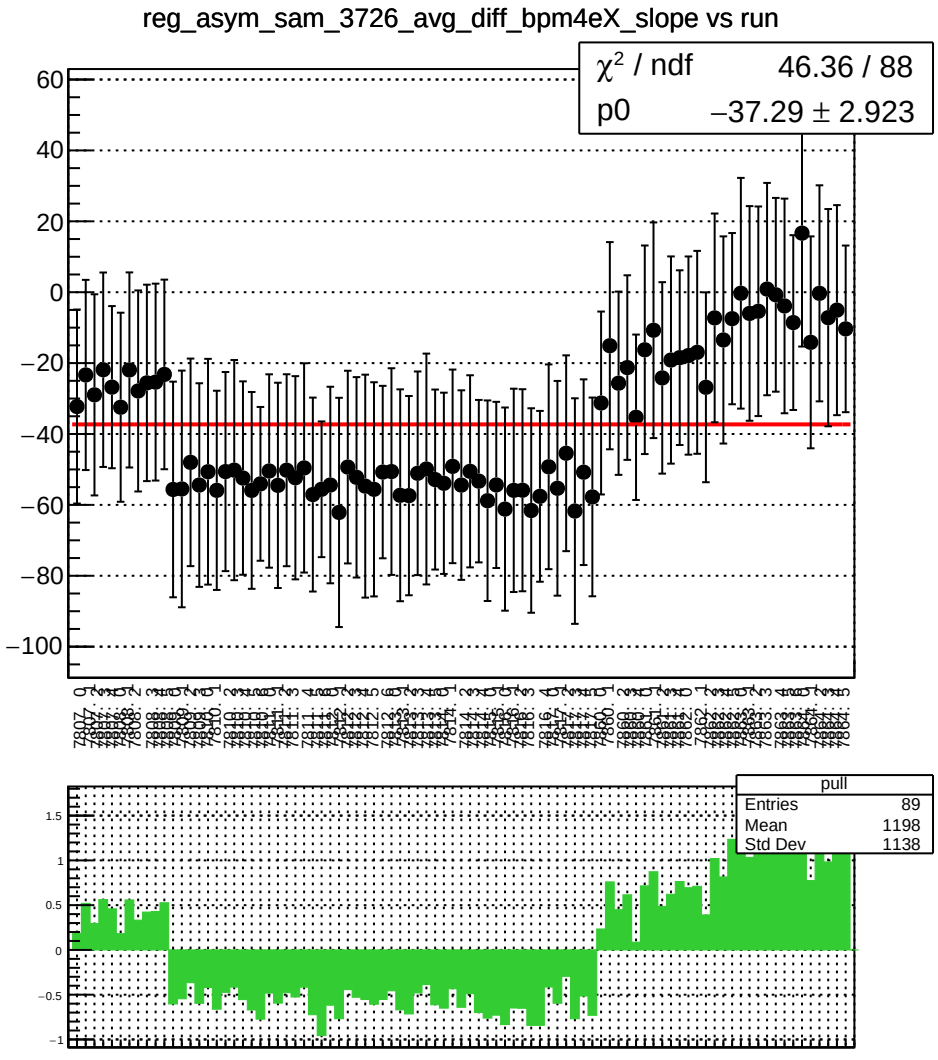

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 61.41 / 88
p0 −0.004074 ± 0.05049
pull
Entries 89
Mean 155
Std Dev 79.89
pull1D
Entries 89
Mean −0.074
Std Dev 0.8274

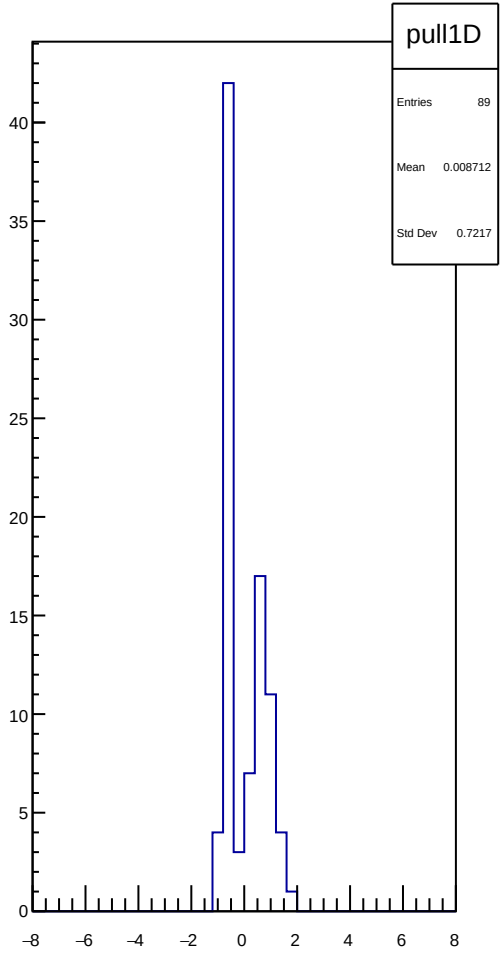

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 57.95 / 88
p0 −46.48 ± 3.236
pull
Entries 89
Mean 425.9
Std Dev 365.1

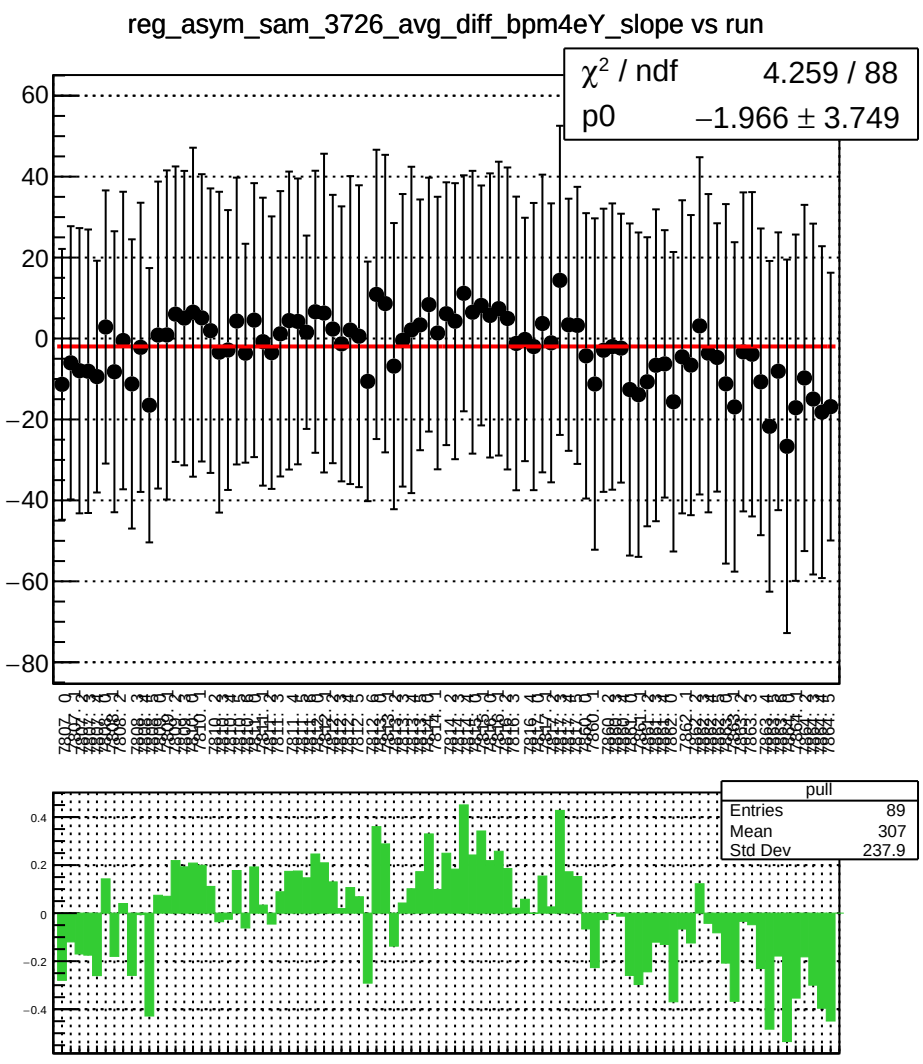

pull1D
Entries 89
Mean −0.02964
Std Dev 0.8064

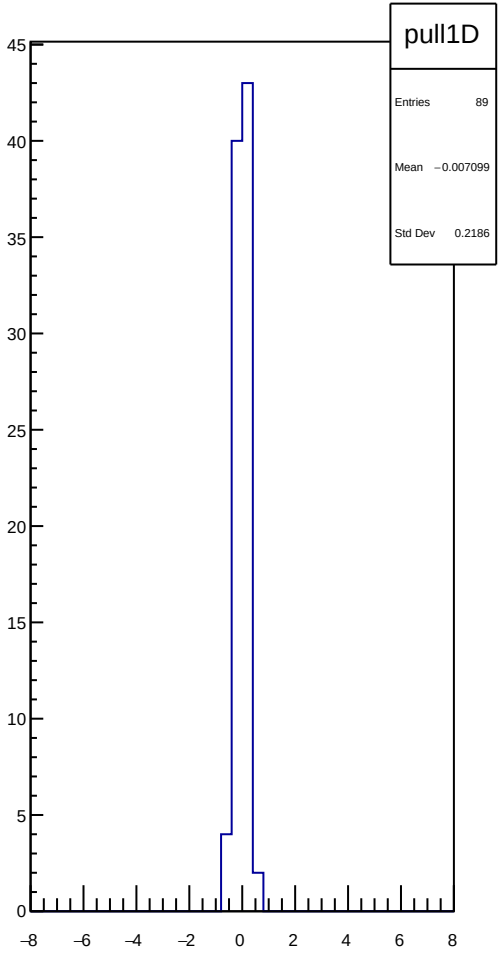

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.061 / 88
p0 −11.15 ± 3.289
pull
Entries 89
Mean 371
Std Dev 306.2

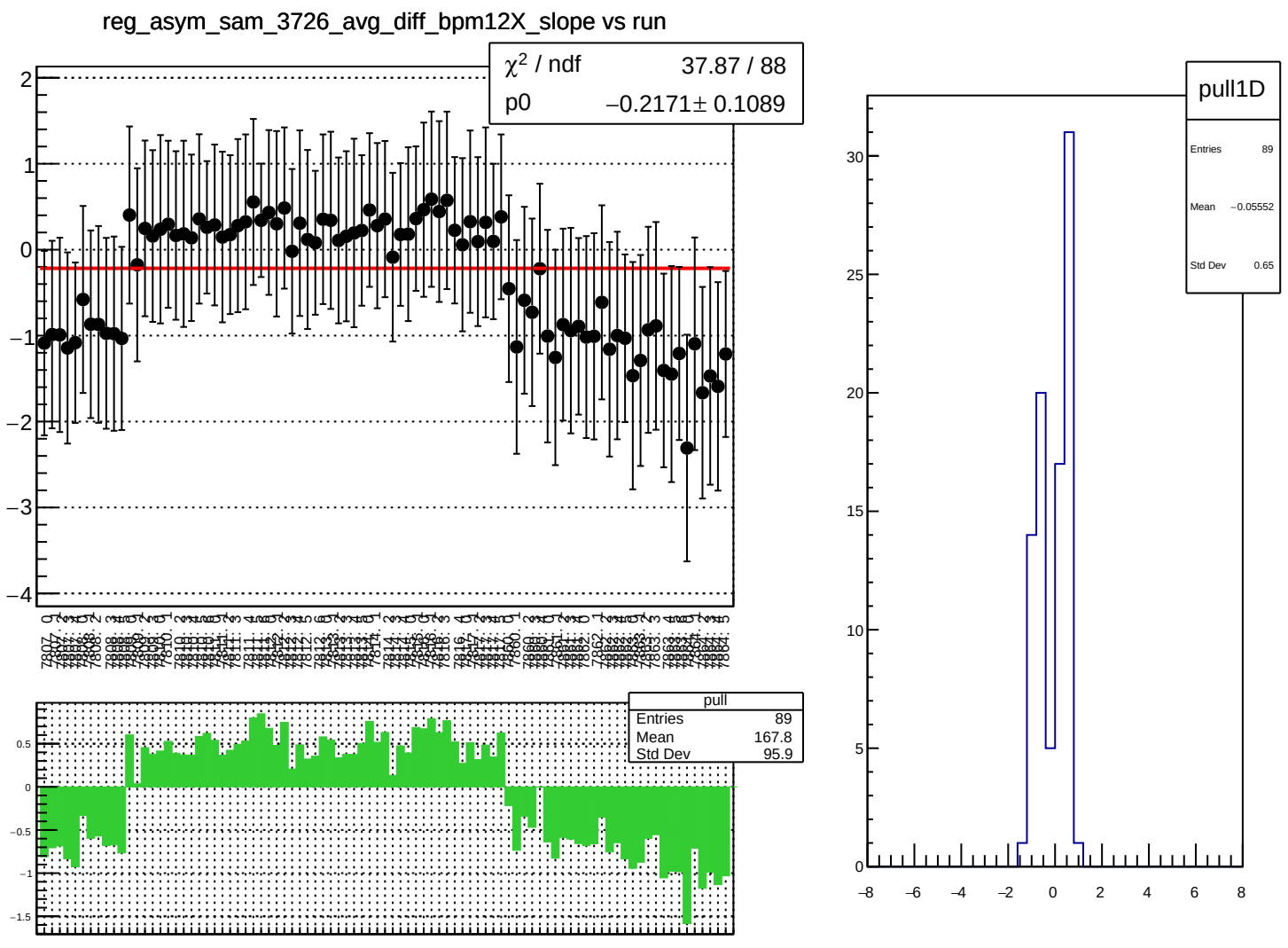

pull1D
Entries 89
Mean 0.007238
Std Dev 0.2384

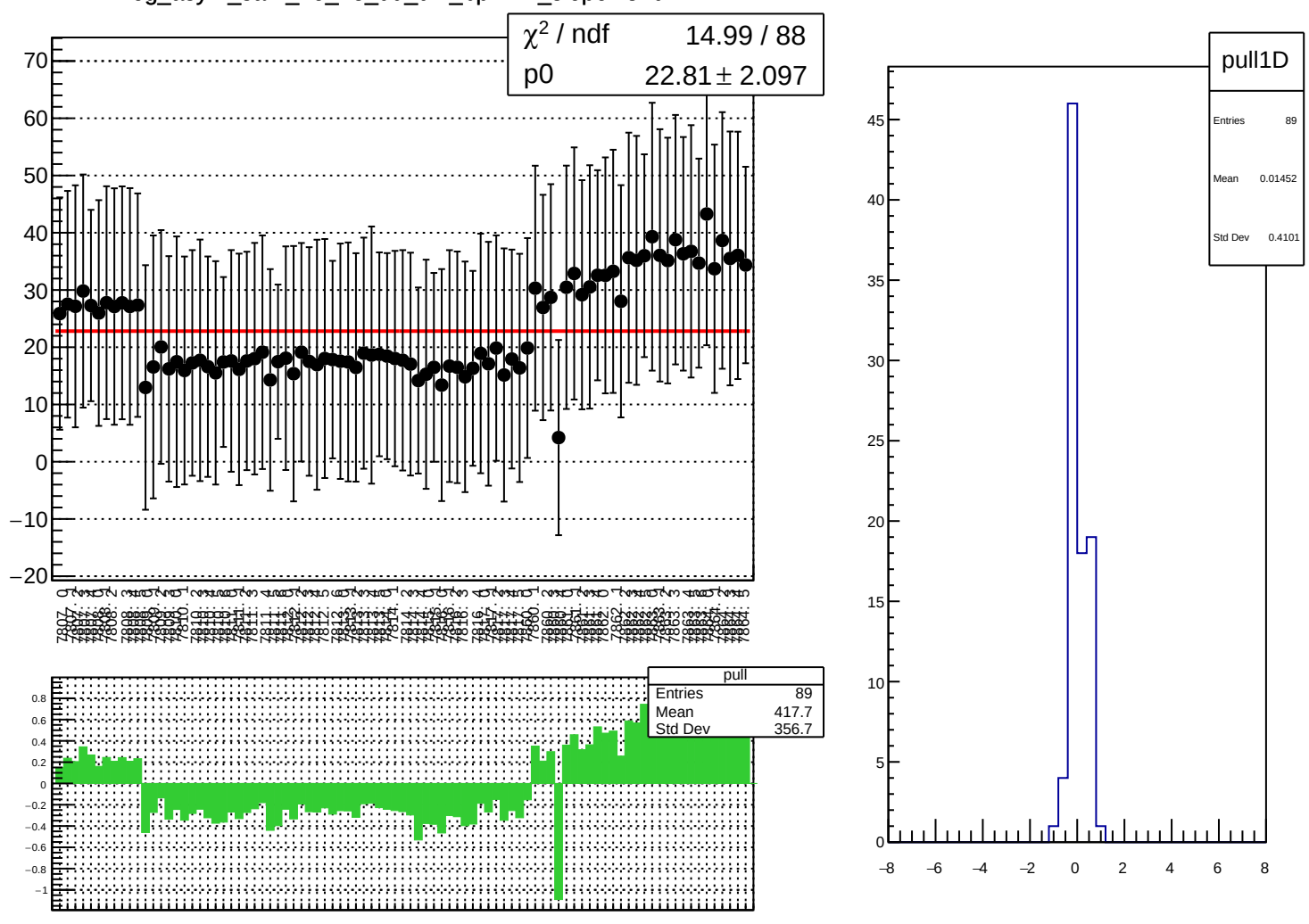

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.36 / 88
p0 −37.29 ± 2.923
pull
Entries 89
Mean 1198
Std Dev 1138

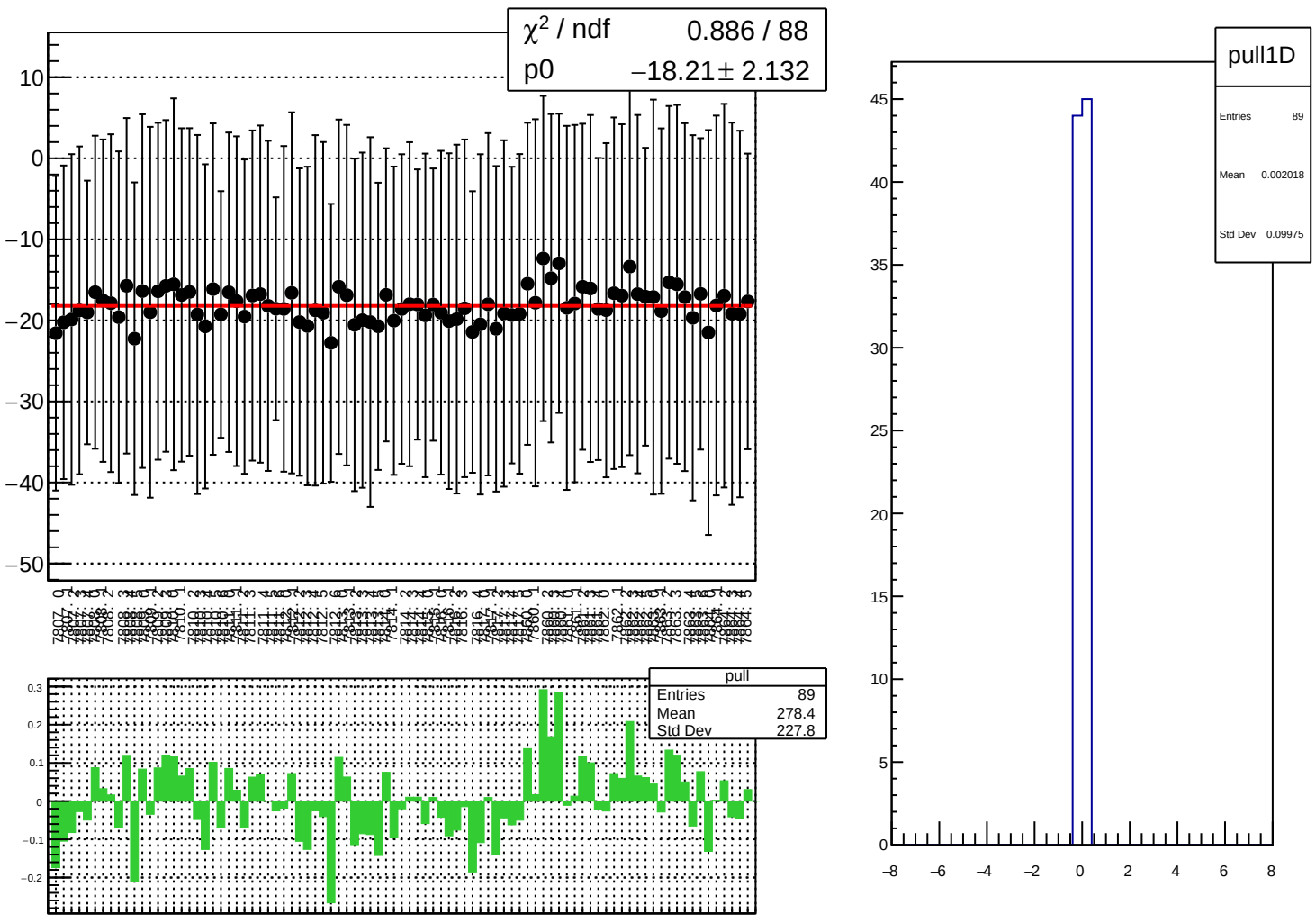

pull1D
Entries 89
Mean 0.008712
Std Dev 0.7217

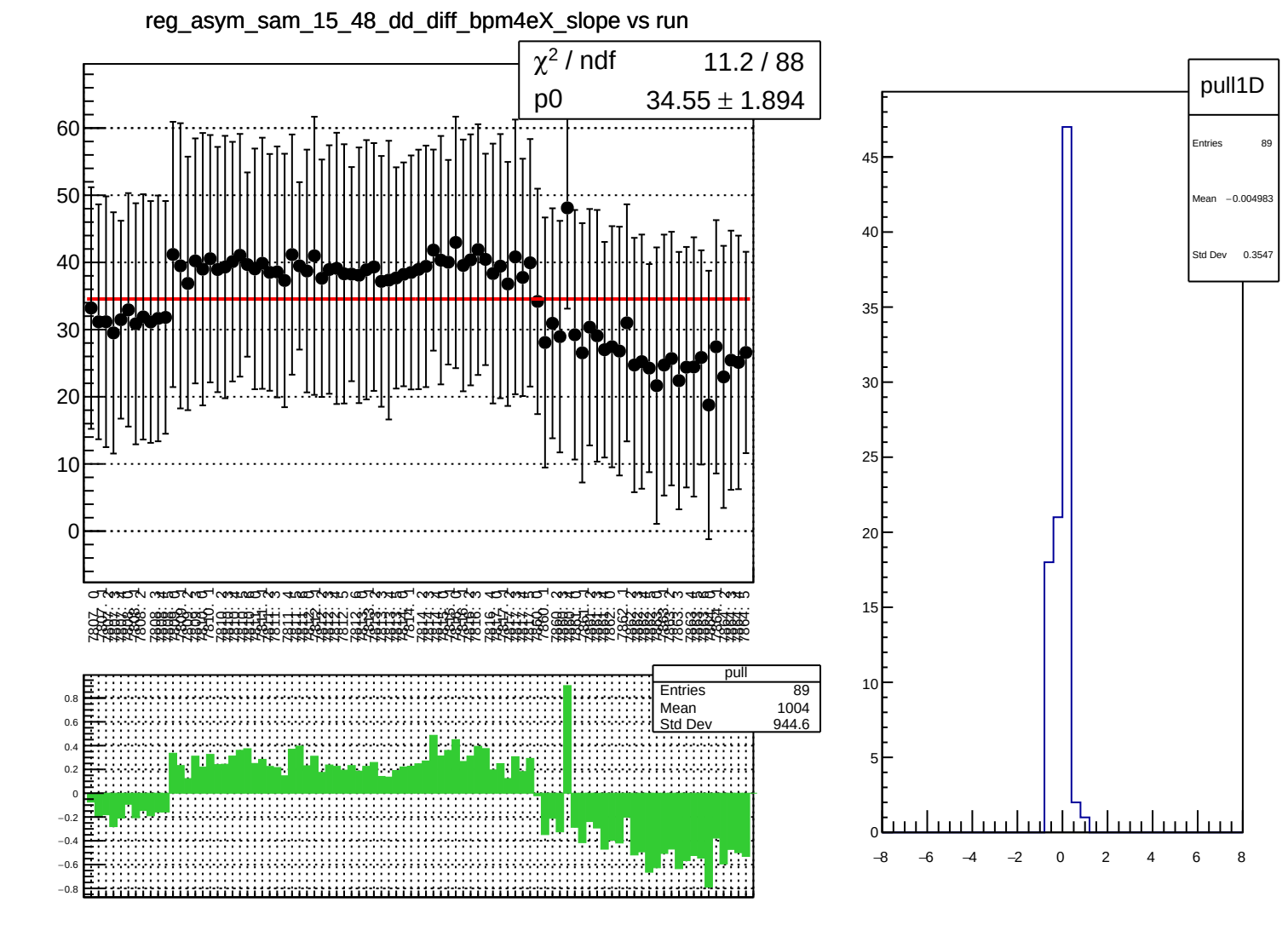

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.259 / 88
p0 −1.966 ± 3.749
pull
Entries 89
Mean 307
Std Dev 237.9

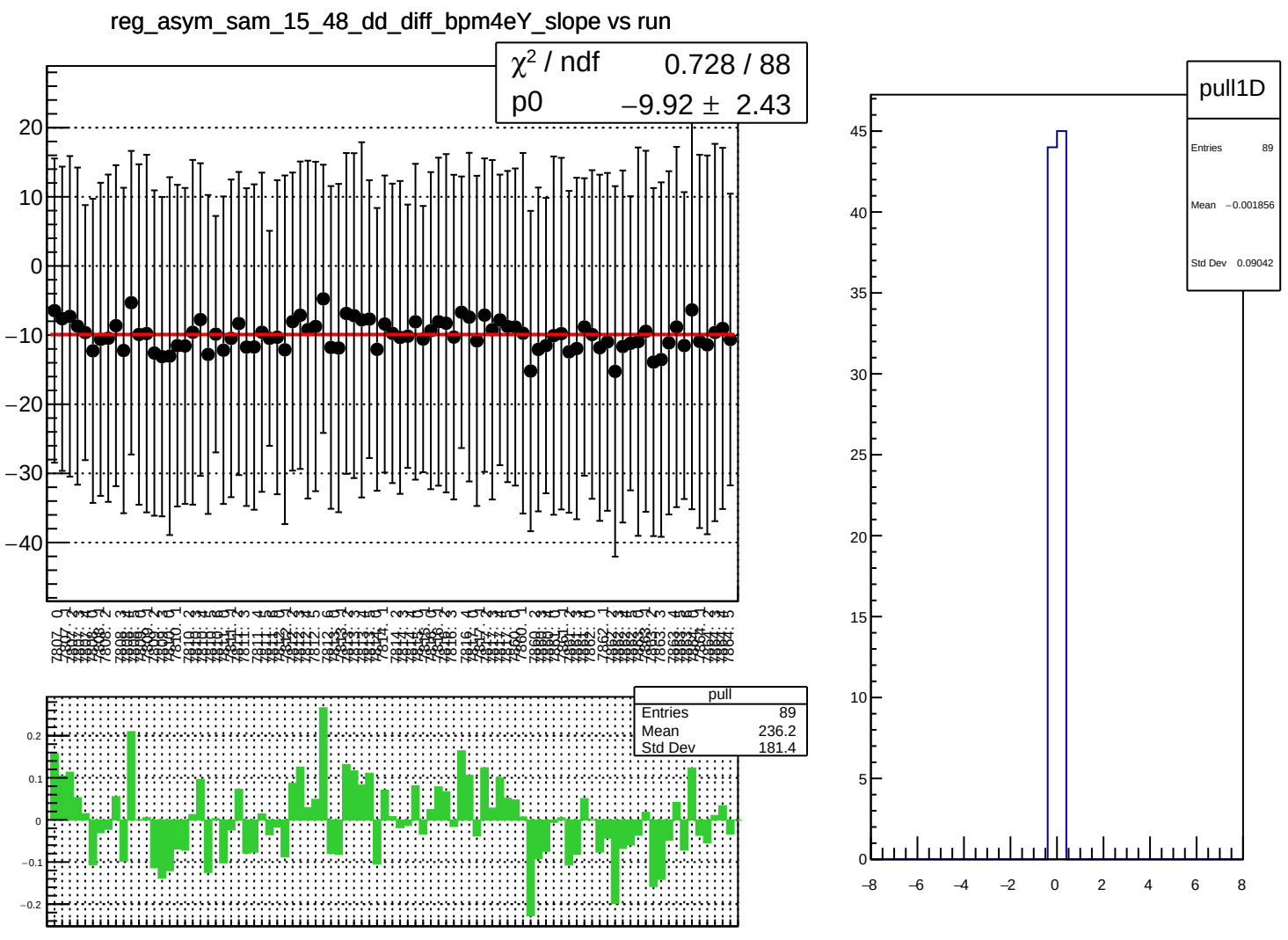

pull1D
Entries 89
Mean −0.007099
Std Dev 0.2186

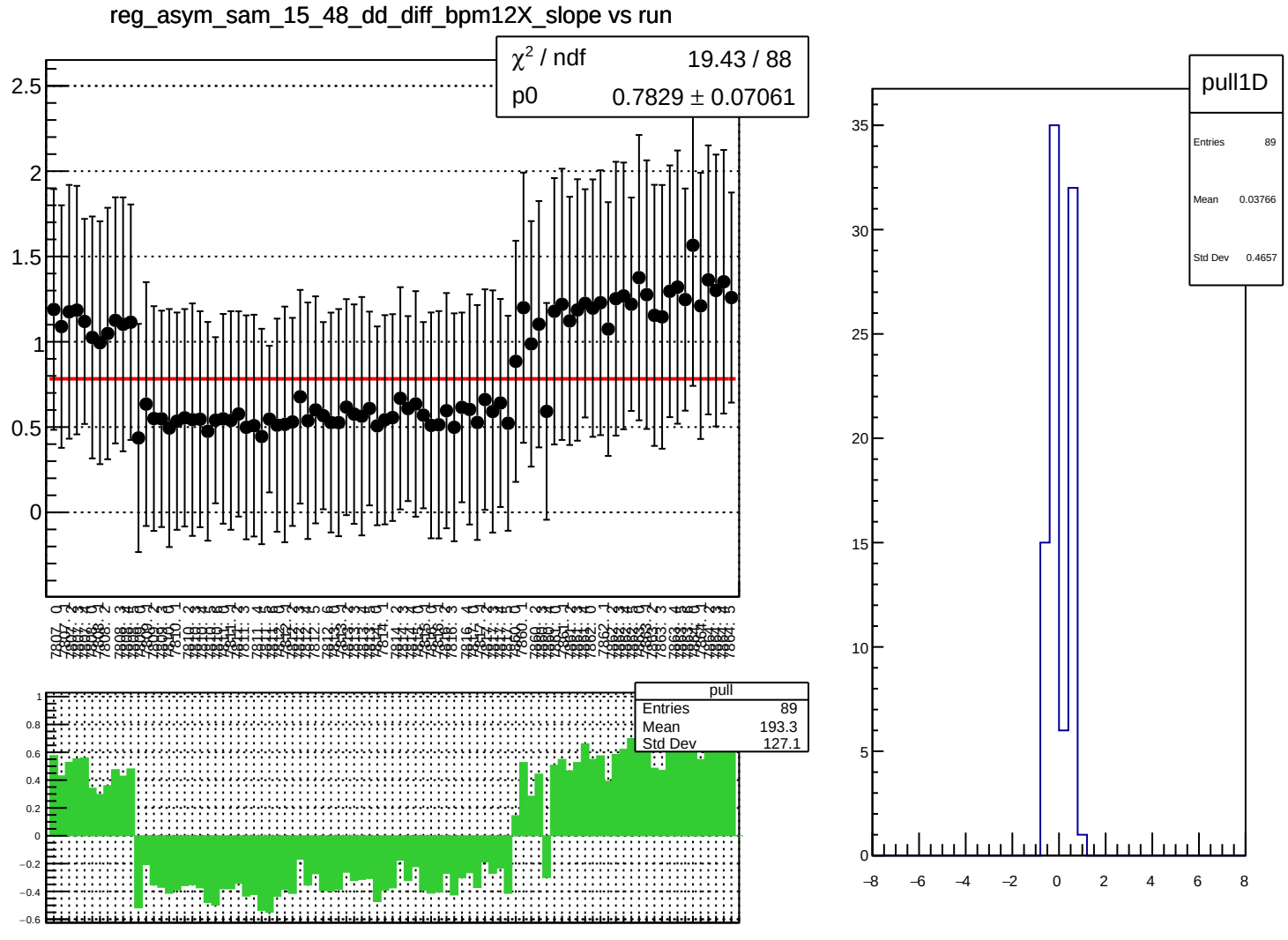

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 37.87 / 88
p0 −0.2171± 0.1089
pull
Entries 89
Mean 167.8
Std Dev 95.9
pull1D
Entries 89
Mean −0.05552
Std Dev 0.65

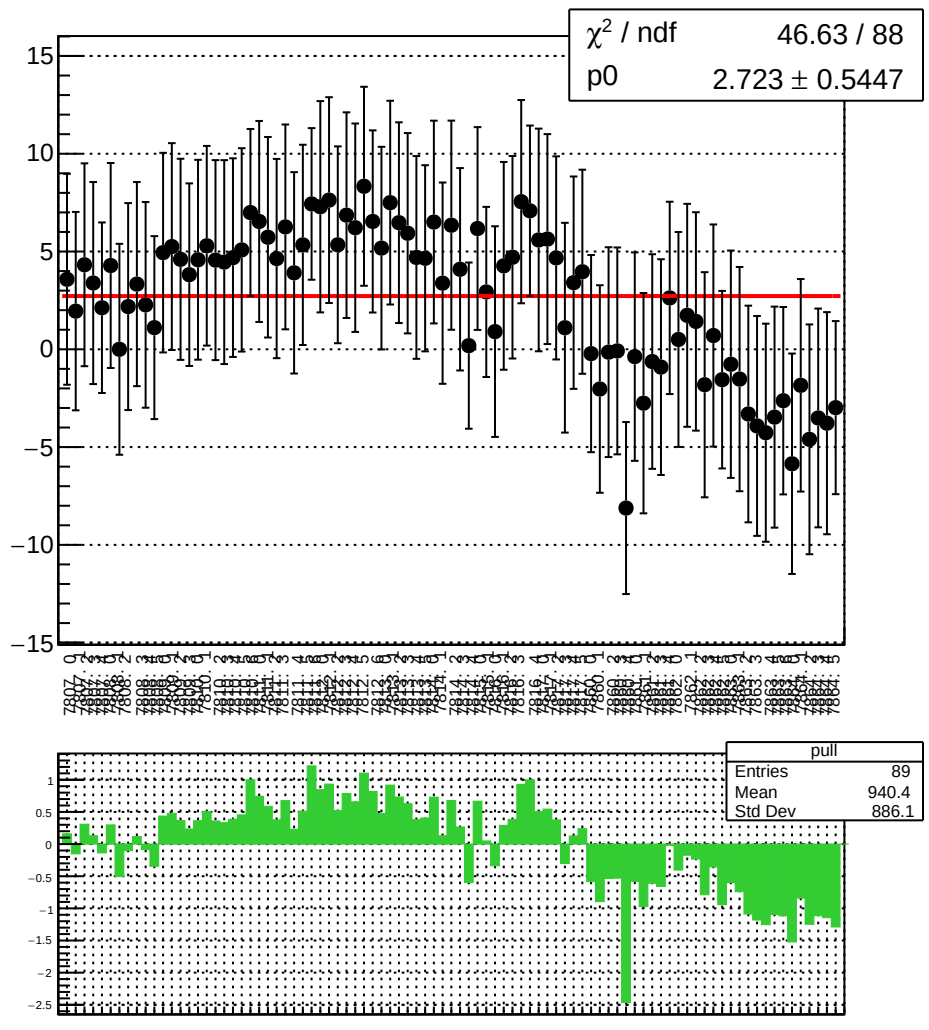

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 14.99 / 88
p0 22.81 ± 2.097
pull
Entries 89
Mean 417.7
Std Dev 356.7
pull1D
Entries 89
Mean 0.01452
Std Dev 0.4101

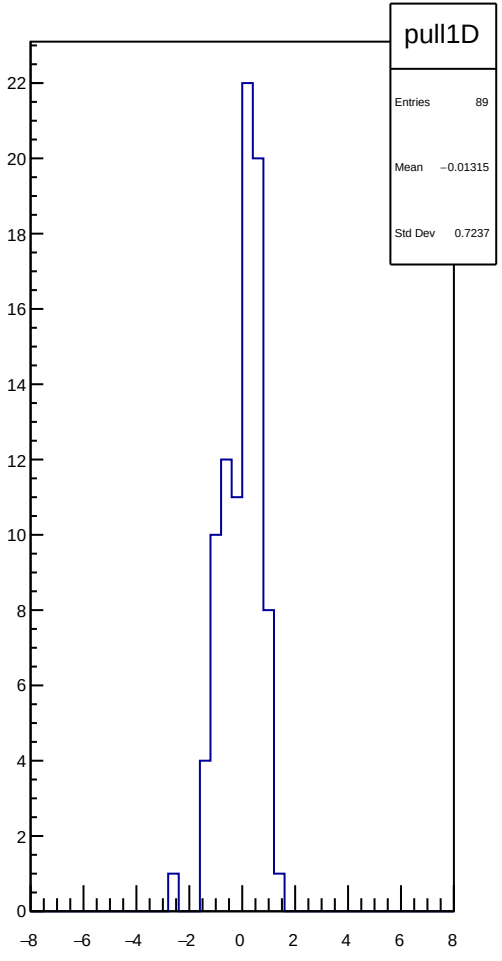

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.886 / 88
p0 −18.21± 2.132
pull
Entries 89
Mean 278.4
Std Dev 227.8
pull1D
Entries 89
Mean 0.002018
Std Dev 0.09975

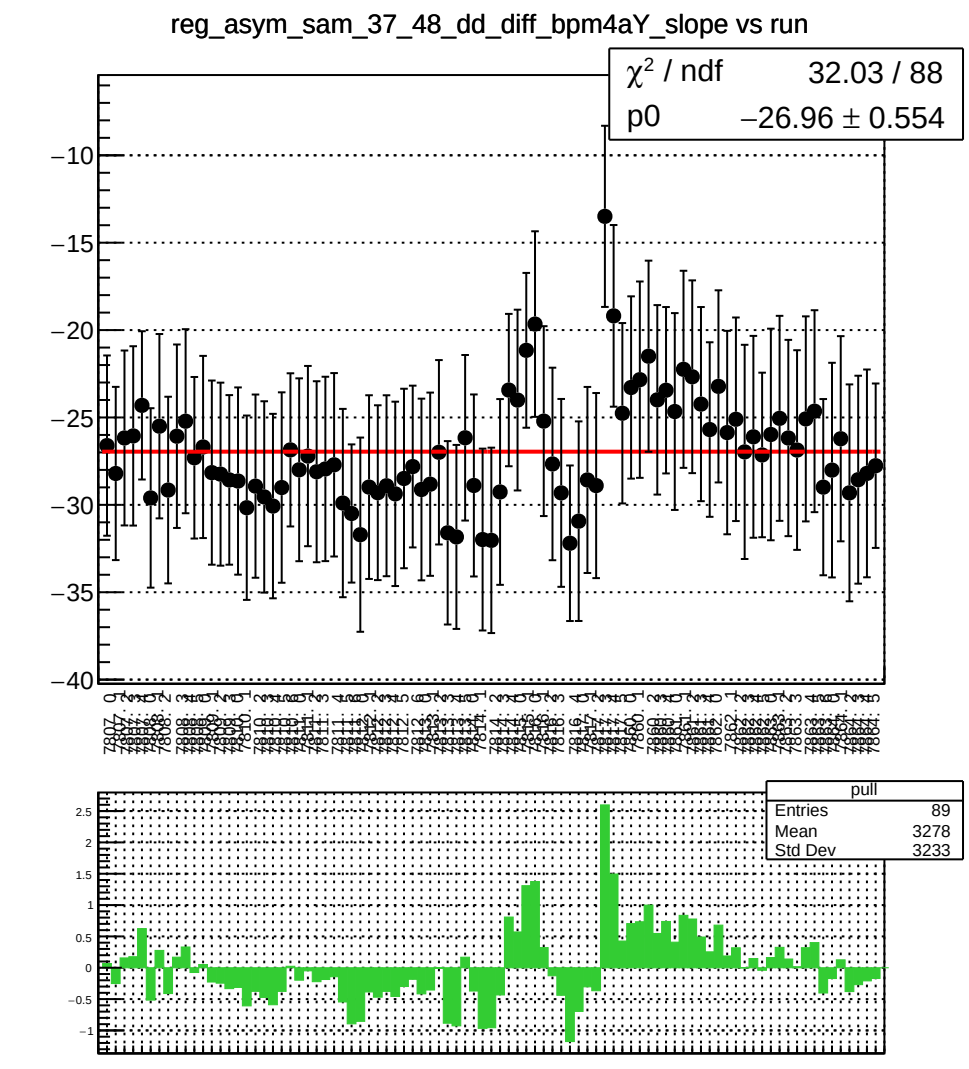

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.2 / 88
p0 34.55 ± 1.894
pull
Entries 89
Mean 1004
Std Dev 944.6
pull1D
Entries 89
Mean −0.004983
Std Dev 0.3547

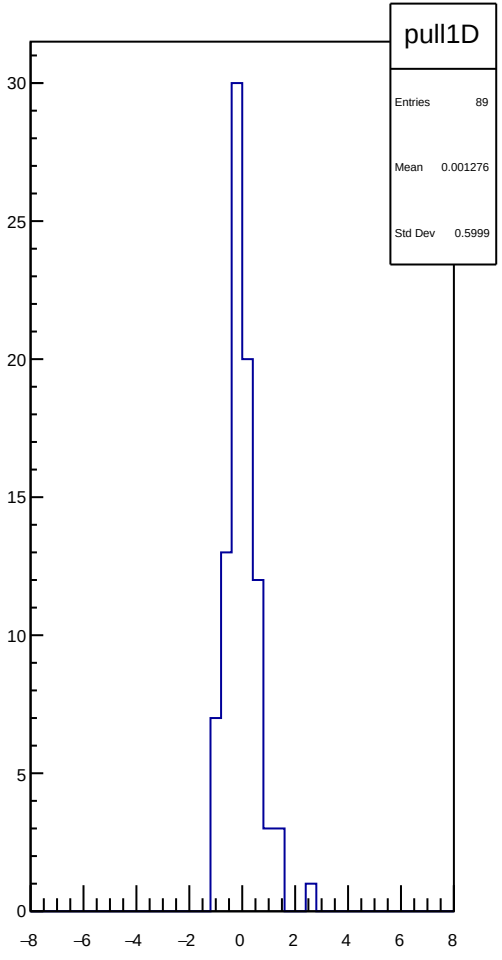

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.728 / 88
p0 −9.92 ± 2.43
pull
Entries 89
Mean 236.2
Std Dev 181.4
pull1D
Entries 89
Mean −0.001856
Std Dev 0.09042

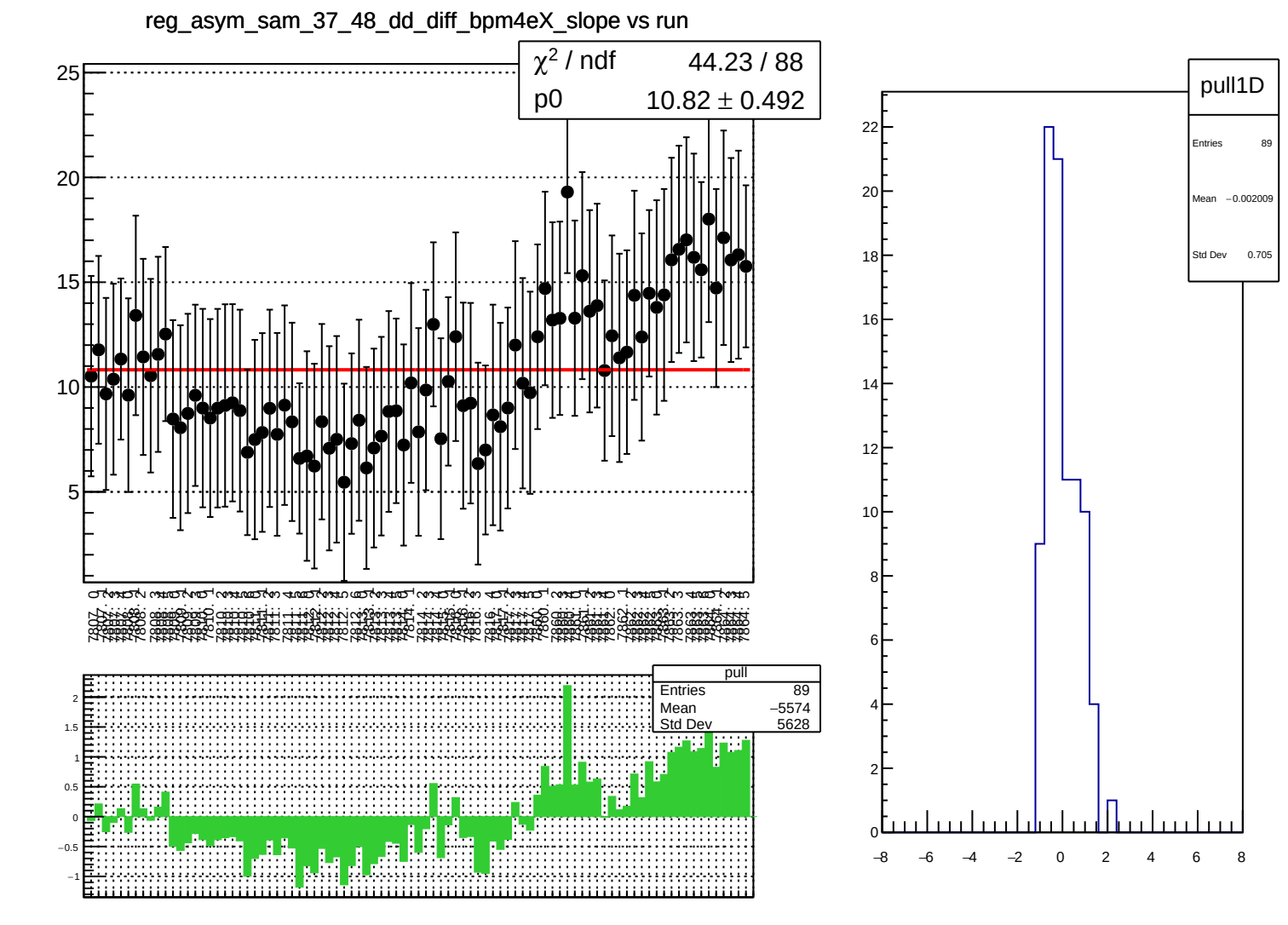

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 19.43 / 88
p0 0.7829 ± 0.07061
pull
Entries 89
Mean 193.3
Std Dev 127.1
pull1D
Entries 89
Mean 0.03766
Std Dev 0.4657

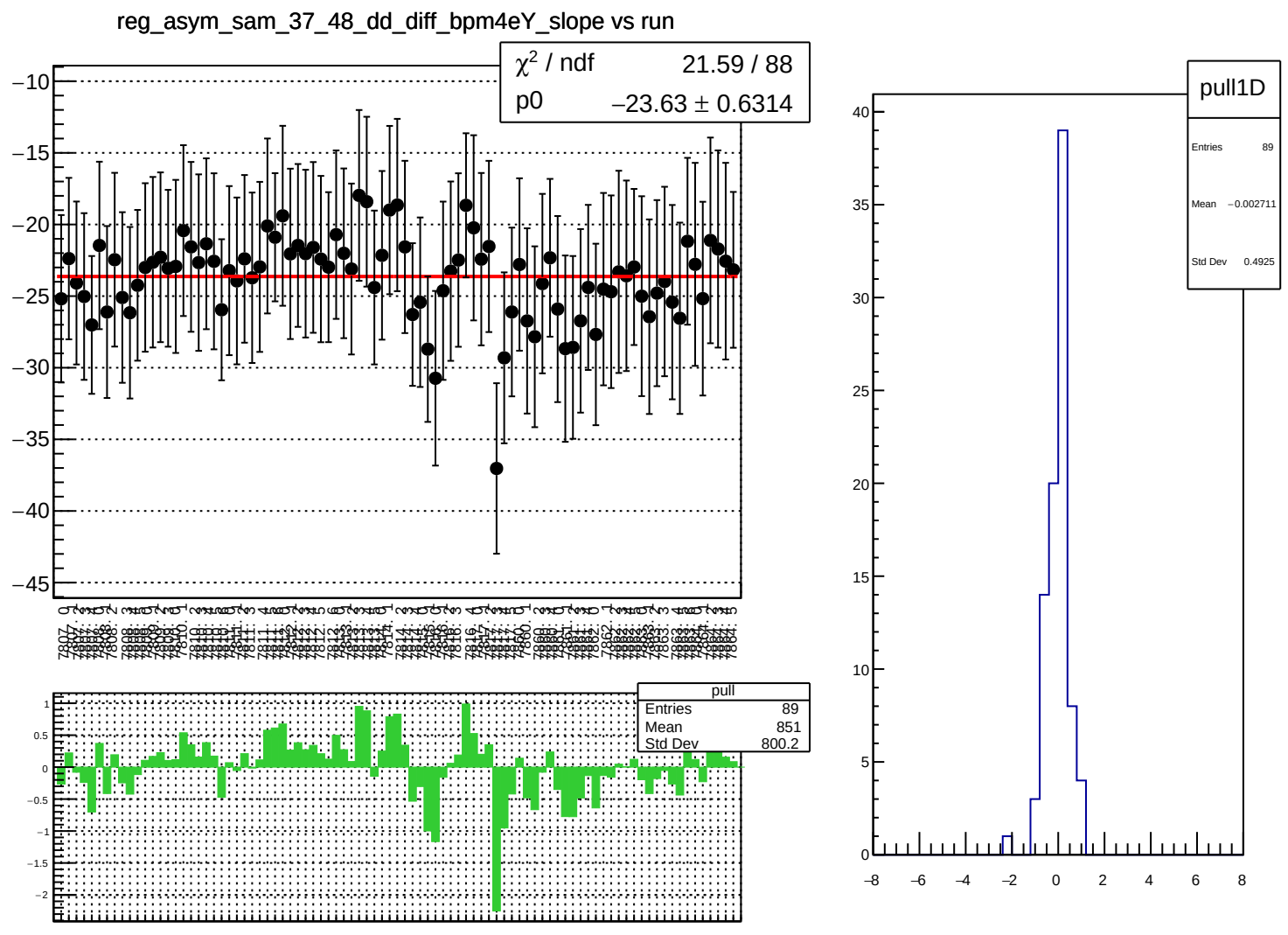

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 46.63 / 88
p0 2.723 ± 0.5447
pull
Entries 89
Mean 940.4
Std Dev 886.1

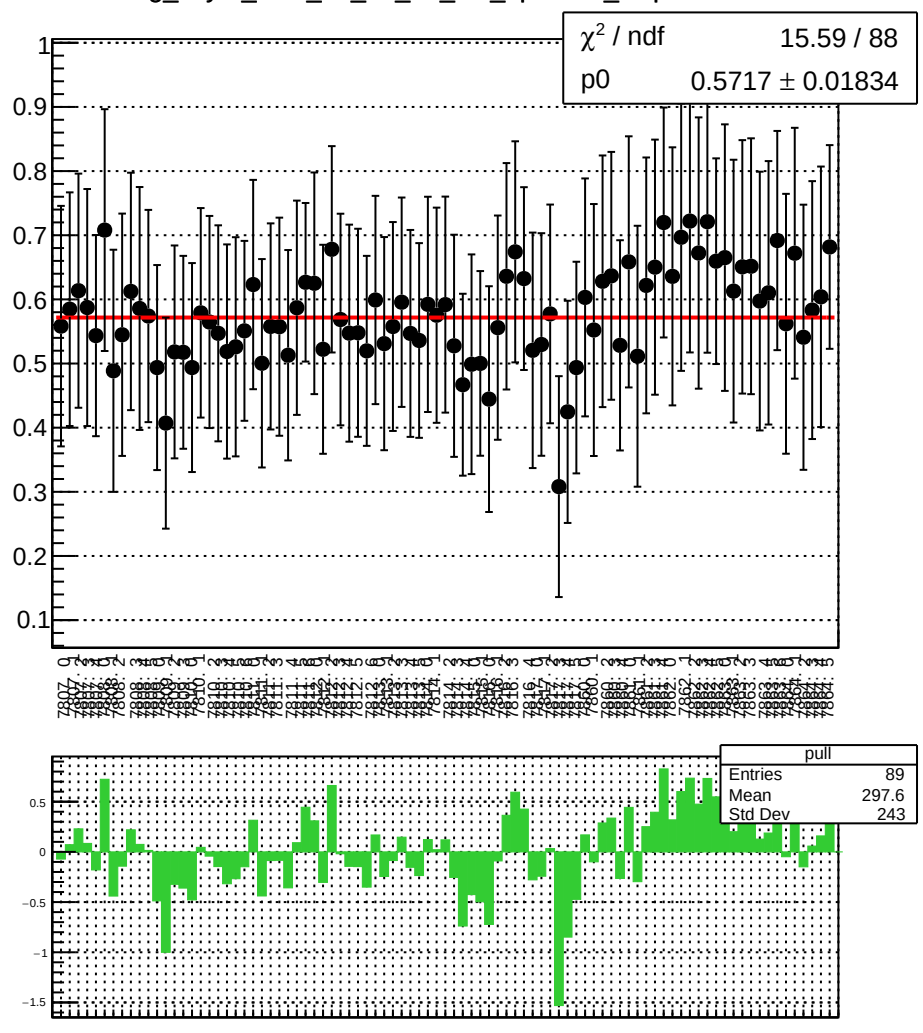

pull1D
Entries 89
Mean −0.01315
Std Dev 0.7237

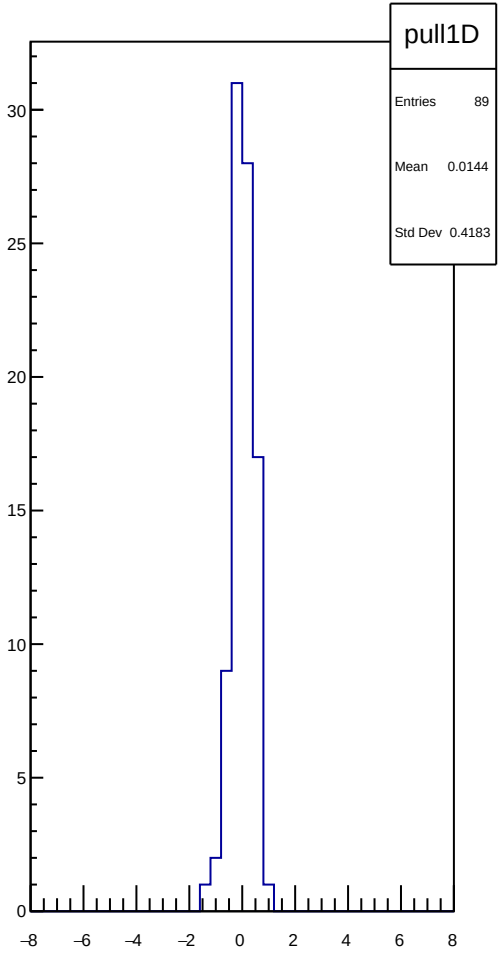

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.03 / 88
p0 −26.96 ± 0.554
pull
Entries 89
Mean 3278
Std Dev 3233

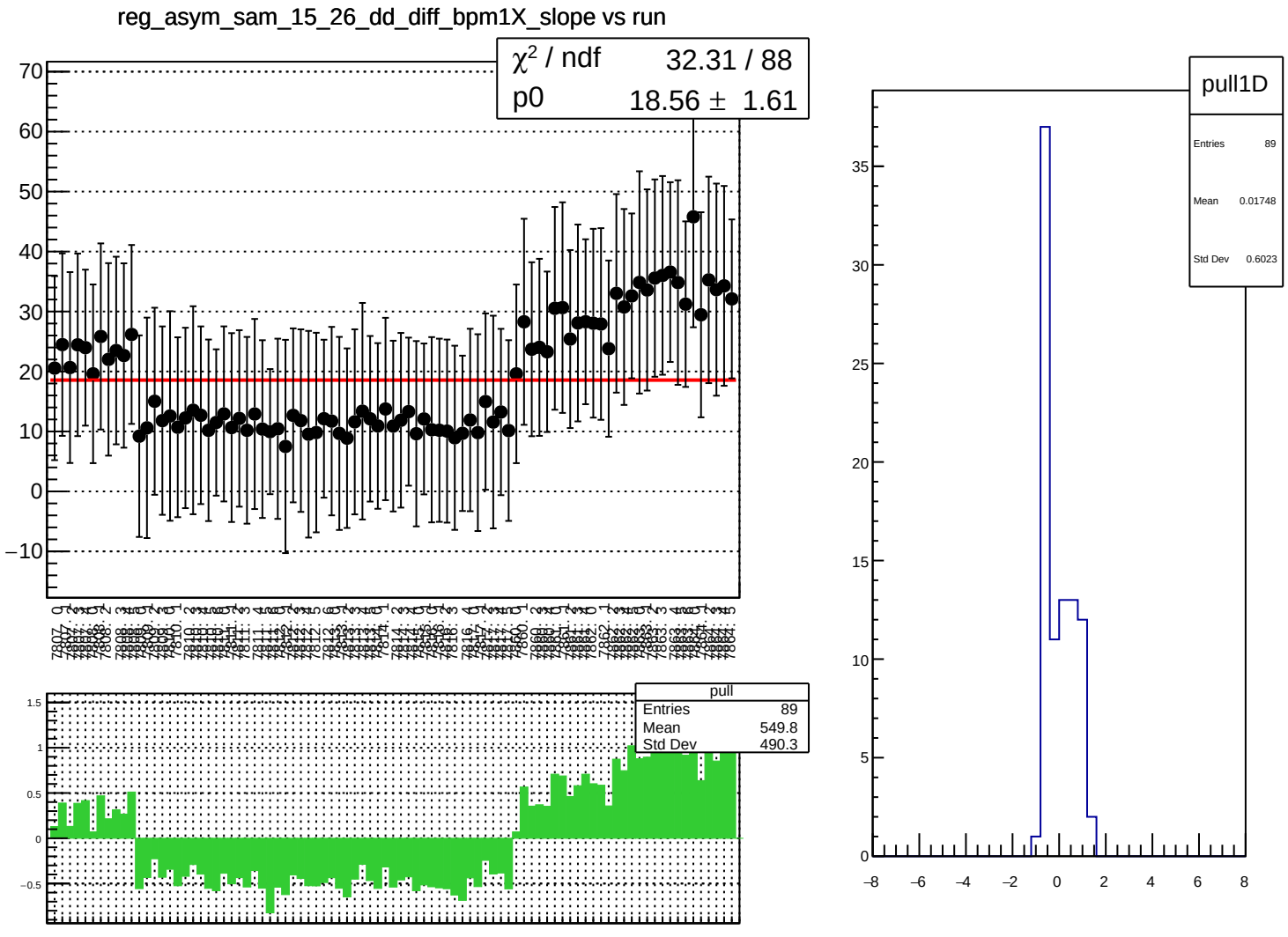

pull1D
Entries 89
Mean 0.001276
Std Dev 0.5999

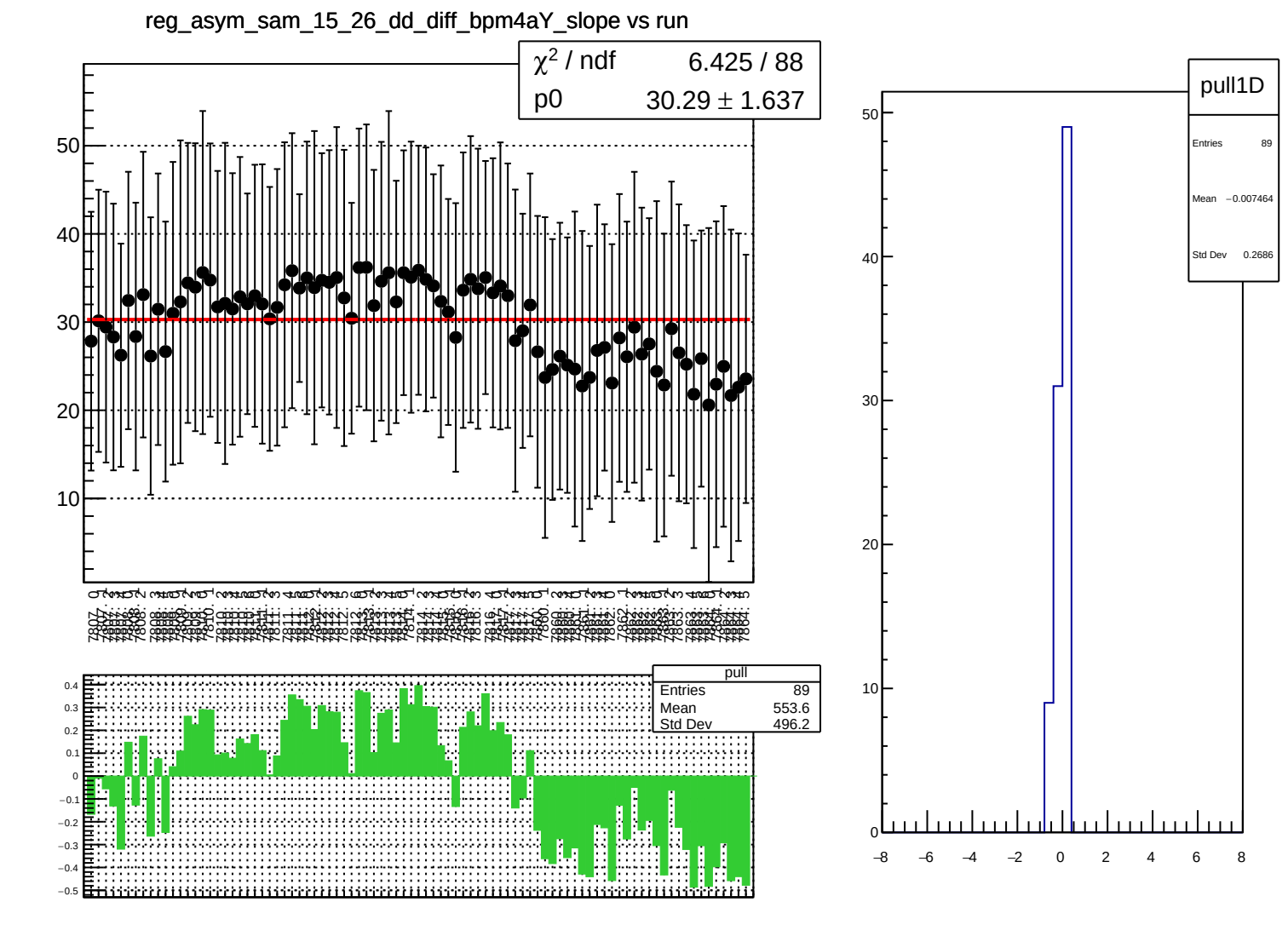

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.23 / 88
p0 10.82 ± 0.492
pull
Entries 89
Mean −5574
Std Dev 5628
pull1D
Entries 89
Mean −0.002009
Std Dev 0.705

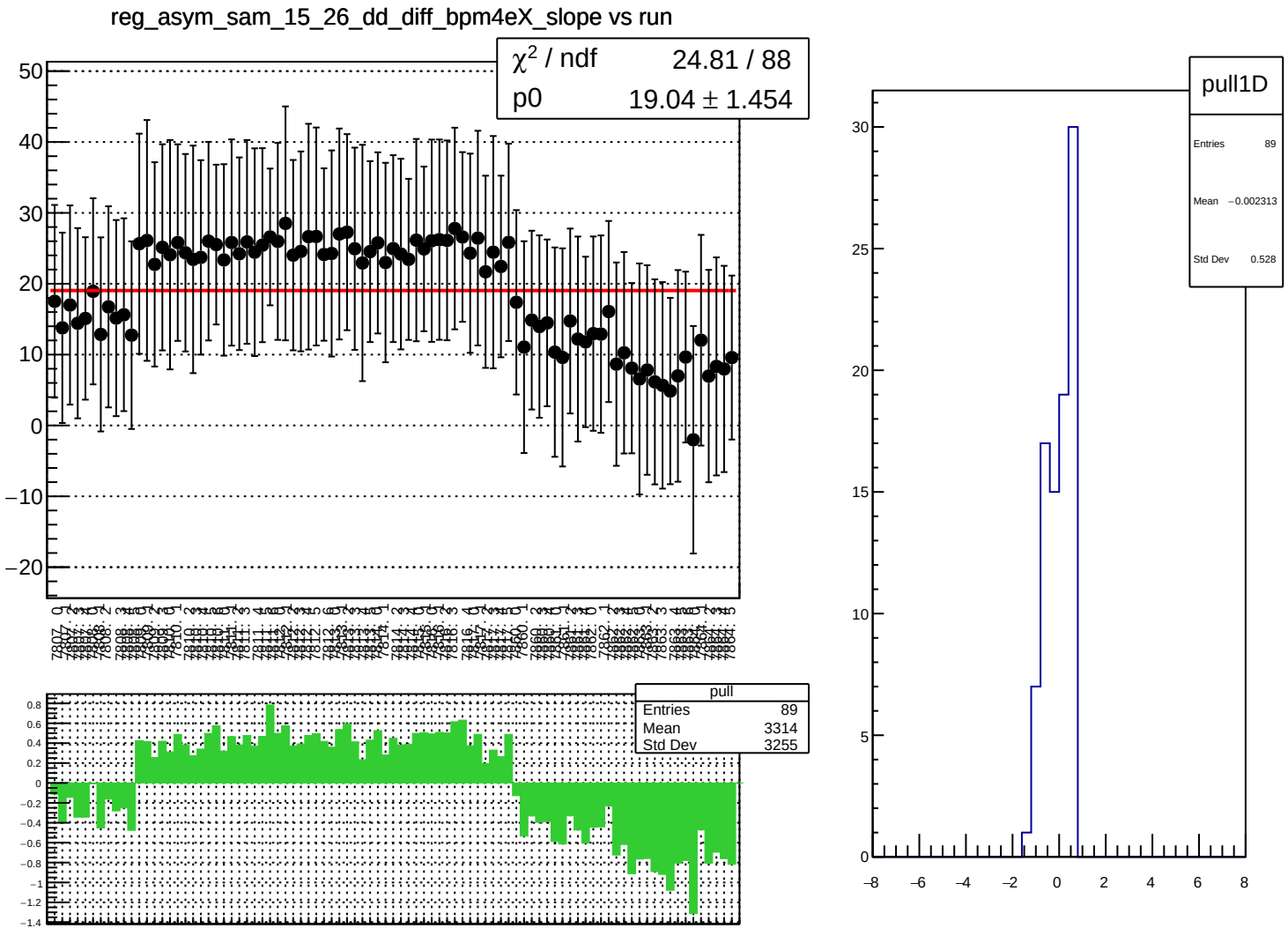

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.59 / 88
p0 −23.63 ± 0.6314
pull
Entries 89
Mean 851
Std Dev 800.2
pull1D
Entries 89
Mean −0.002711
Std Dev 0.4925

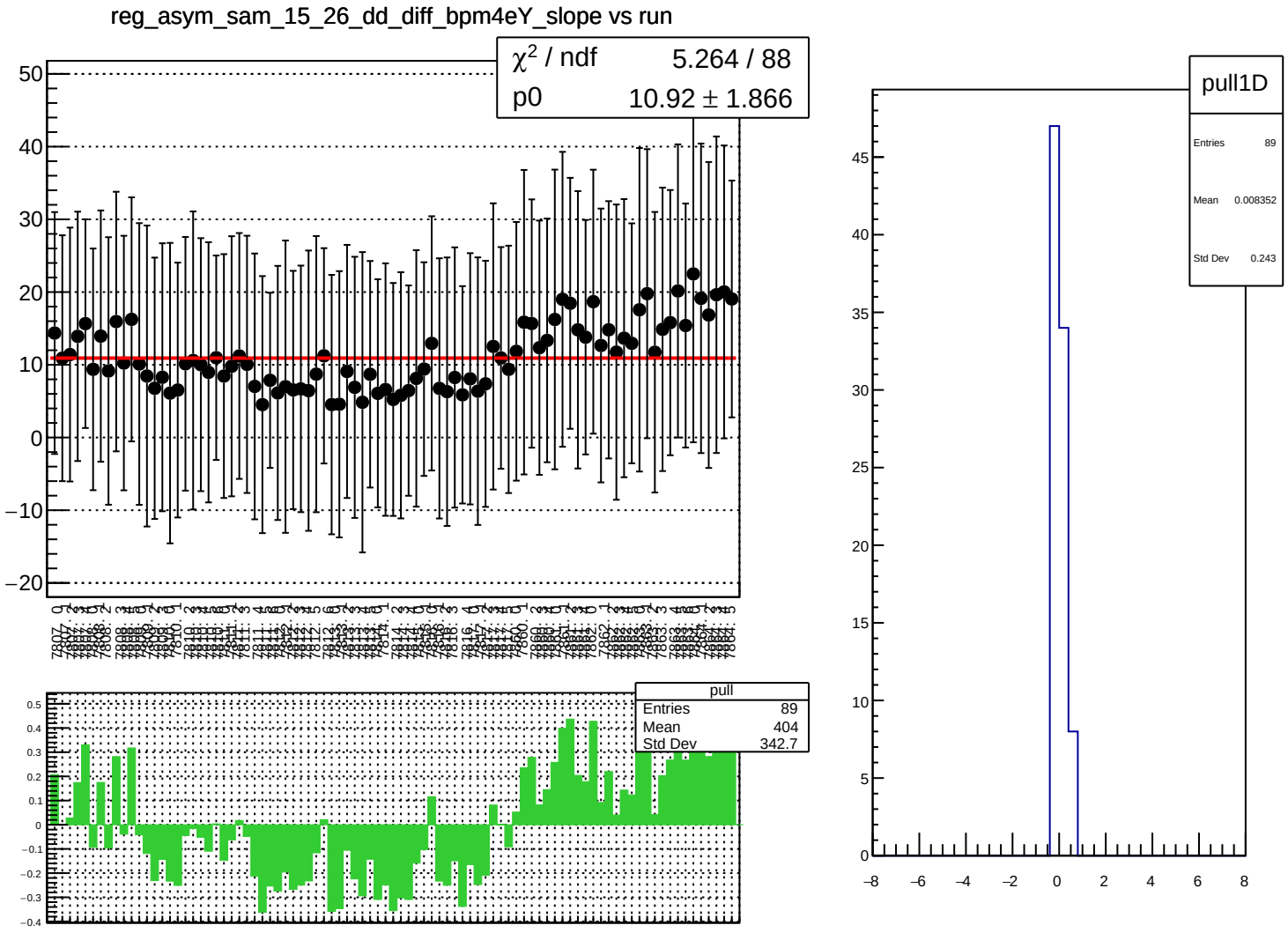

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 15.59 / 88
p0 0.5717 ± 0.01834
pull
Entries 89
Mean 297.6
Std Dev 243

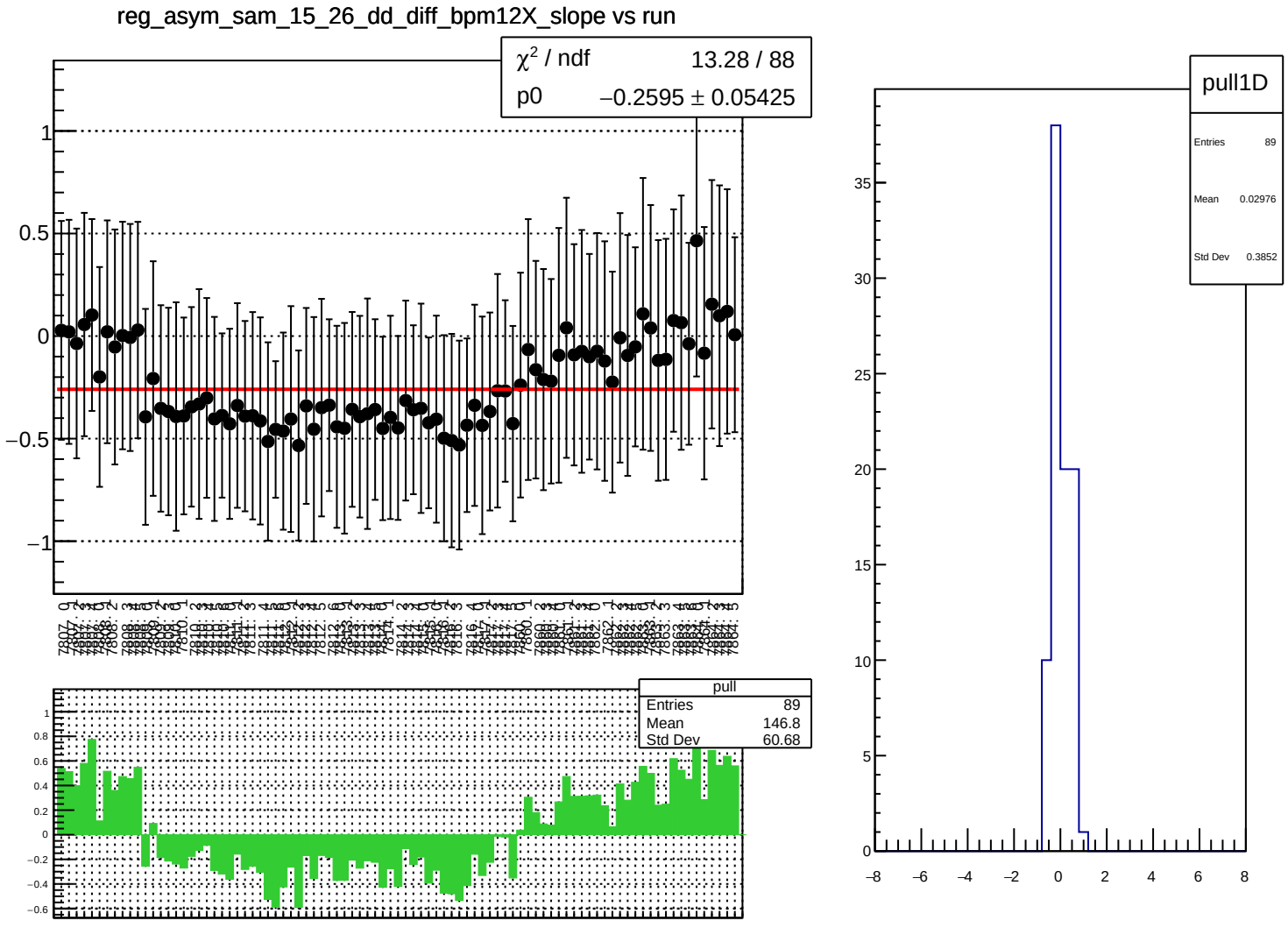

pull1D
Entries 89
Mean 0.0144
Std Dev 0.4183

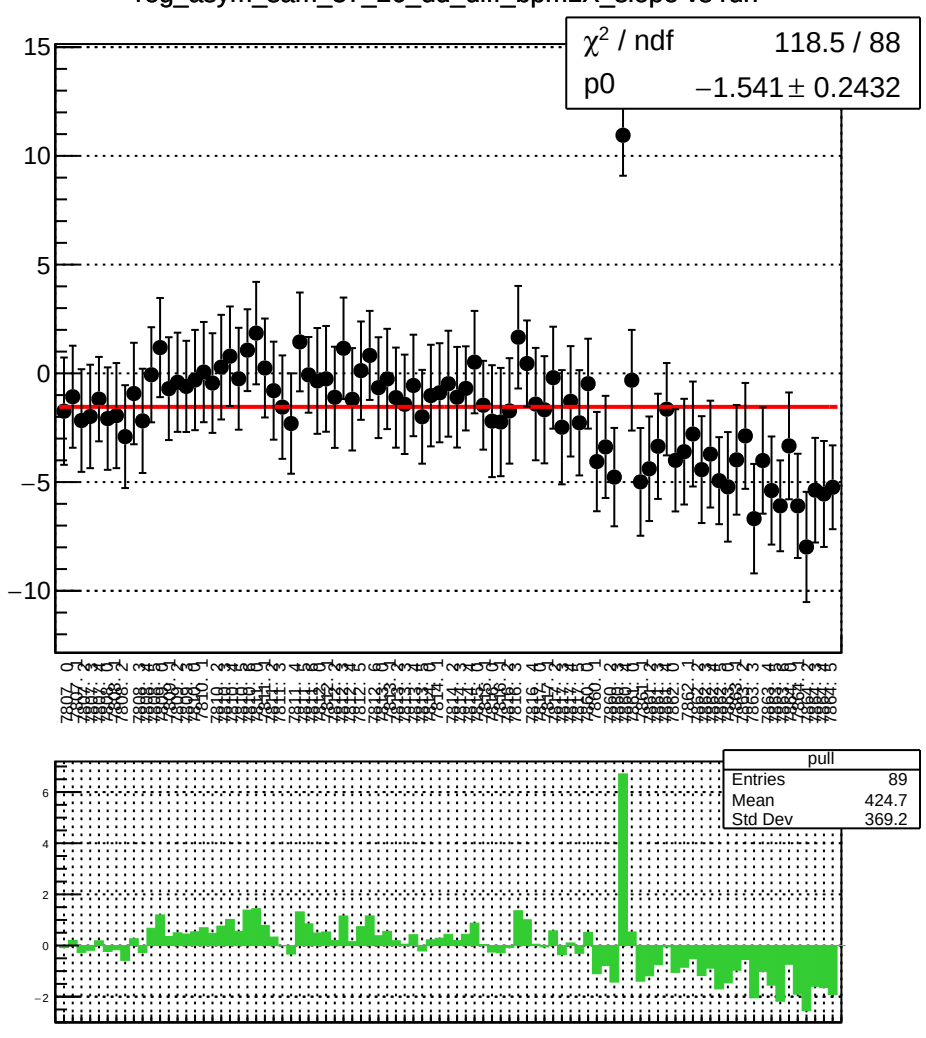

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 32.31 / 88
p0 18.56 ± 1.61
pull
Entries 89
Mean 549.8
Std Dev 490.3
pull1D
Entries 89
Mean 0.01748
Std Dev 0.6023

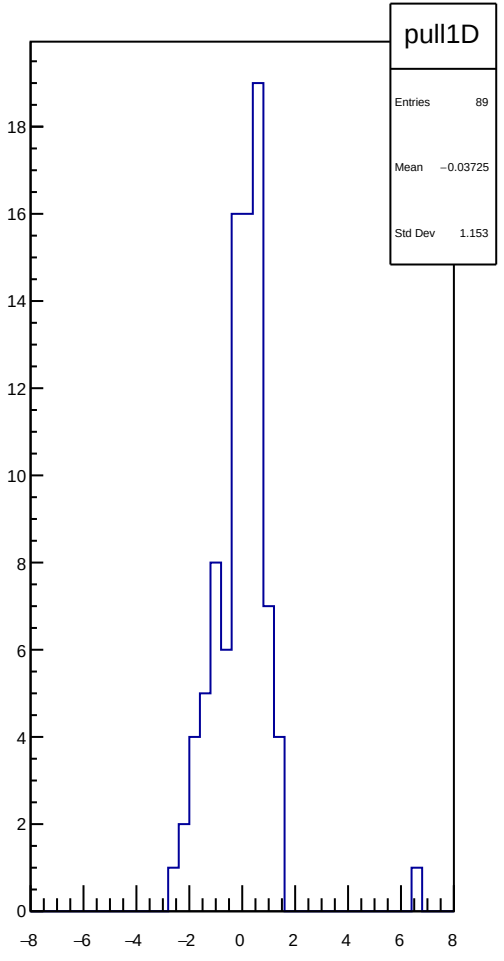

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.425 / 88
p0 30.29 ± 1.637
pull
Entries 89
Mean 553.6
Std Dev 496.2
pull1D
Entries 89
Mean −0.007464
Std Dev 0.2686

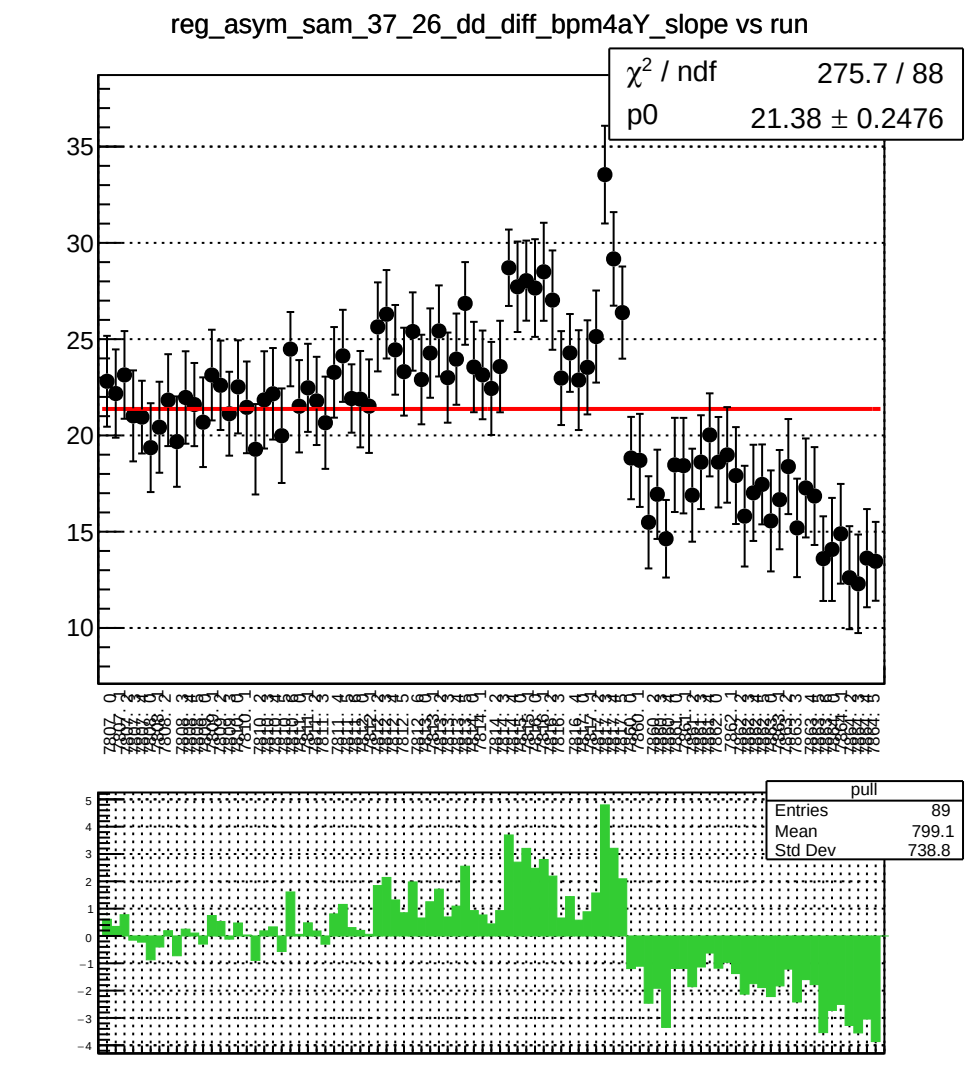

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.81 / 88
p0 19.04 ± 1.454
pull
Entries 89
Mean 3314
Std Dev 3255
pull1D
Entries 89
Mean −0.002313
Std Dev 0.528

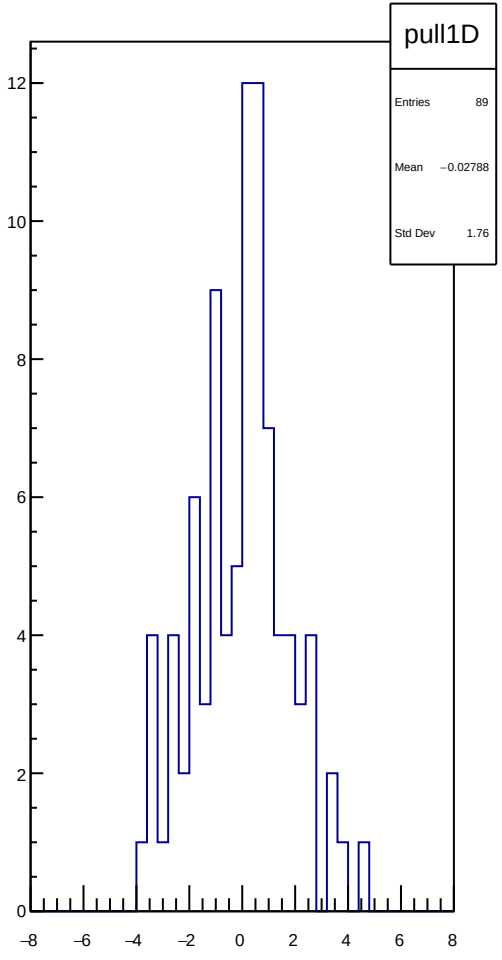

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.264 / 88
p0 10.92 ± 1.866
pull
Entries 89
Mean 404
Std Dev 342.7
pull1D
Entries 89
Mean 0.008352
Std Dev 0.243

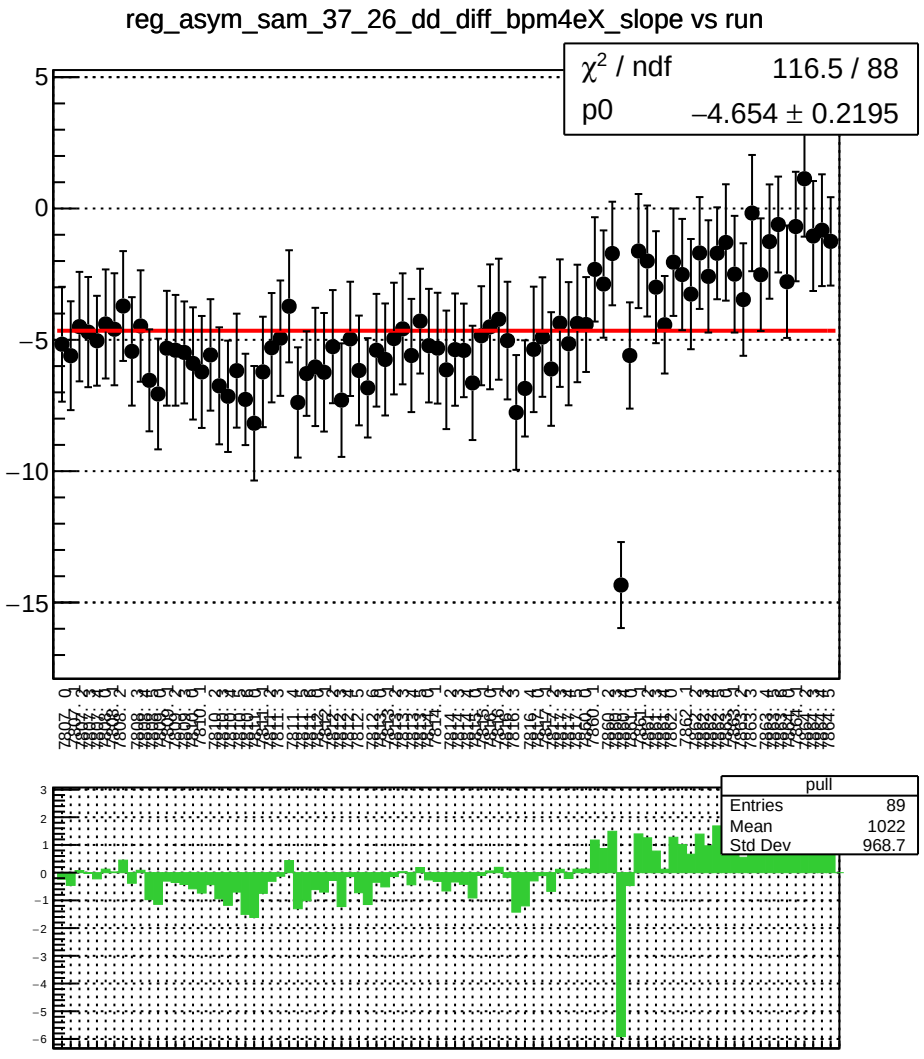

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 13.28 / 88
p0 −0.2595 ± 0.05425
pull
Entries 89
Mean 146.8
Std Dev 60.68
pull1D
Entries 89
Mean 0.02976
Std Dev 0.3852

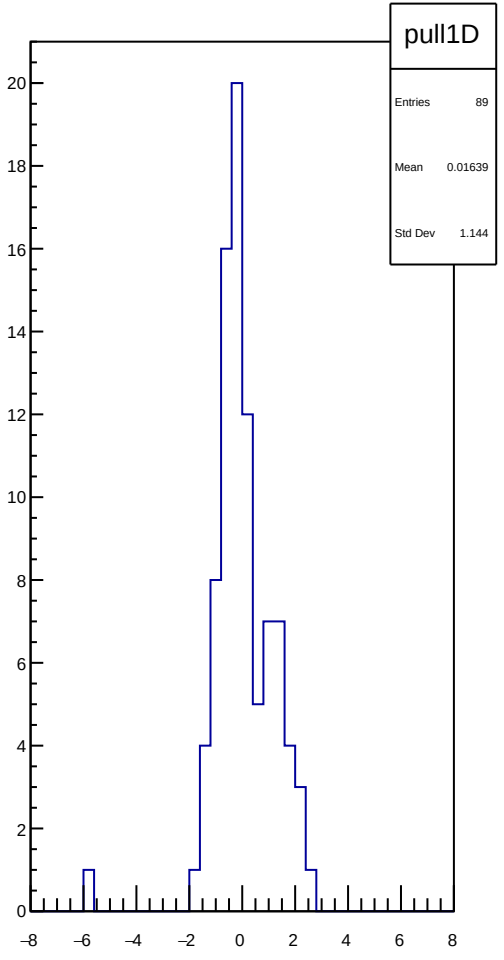

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 118.5 / 88
p0 −1.541 ± 0.2432
pull
Entries 89
Mean 424.7
Std Dev 369.2

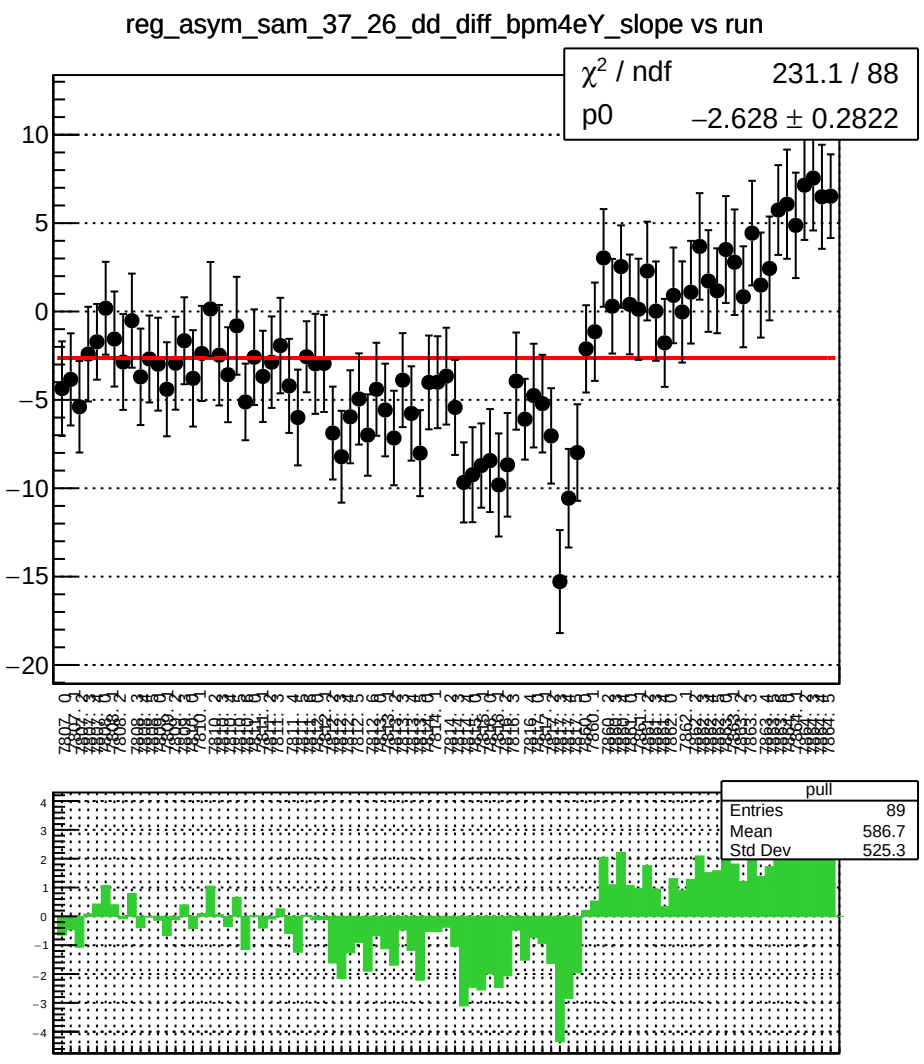

pull1D
Entries 89
Mean −0.03725
Std Dev 1.153

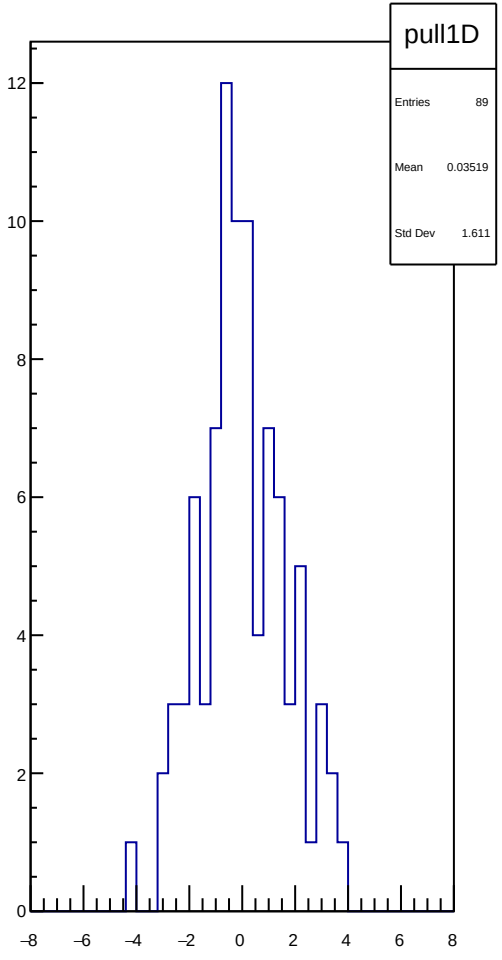

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 275.7 / 88
p0 21.38 ± 0.2476
pull
Entries 89
Mean 799.1
Std Dev 738.8

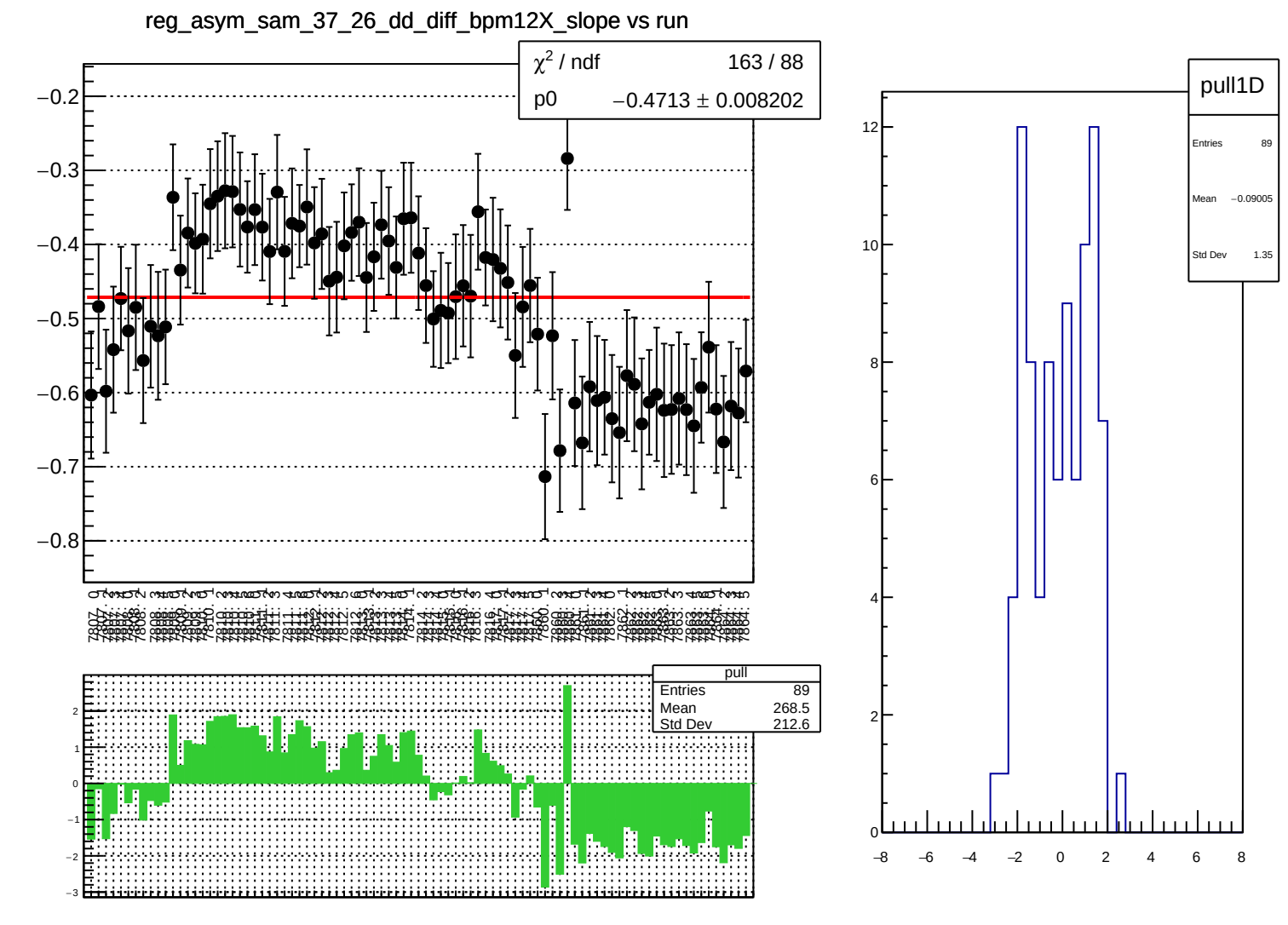

pull1D
Entries 89
Mean −0.02788
Std Dev 1.76

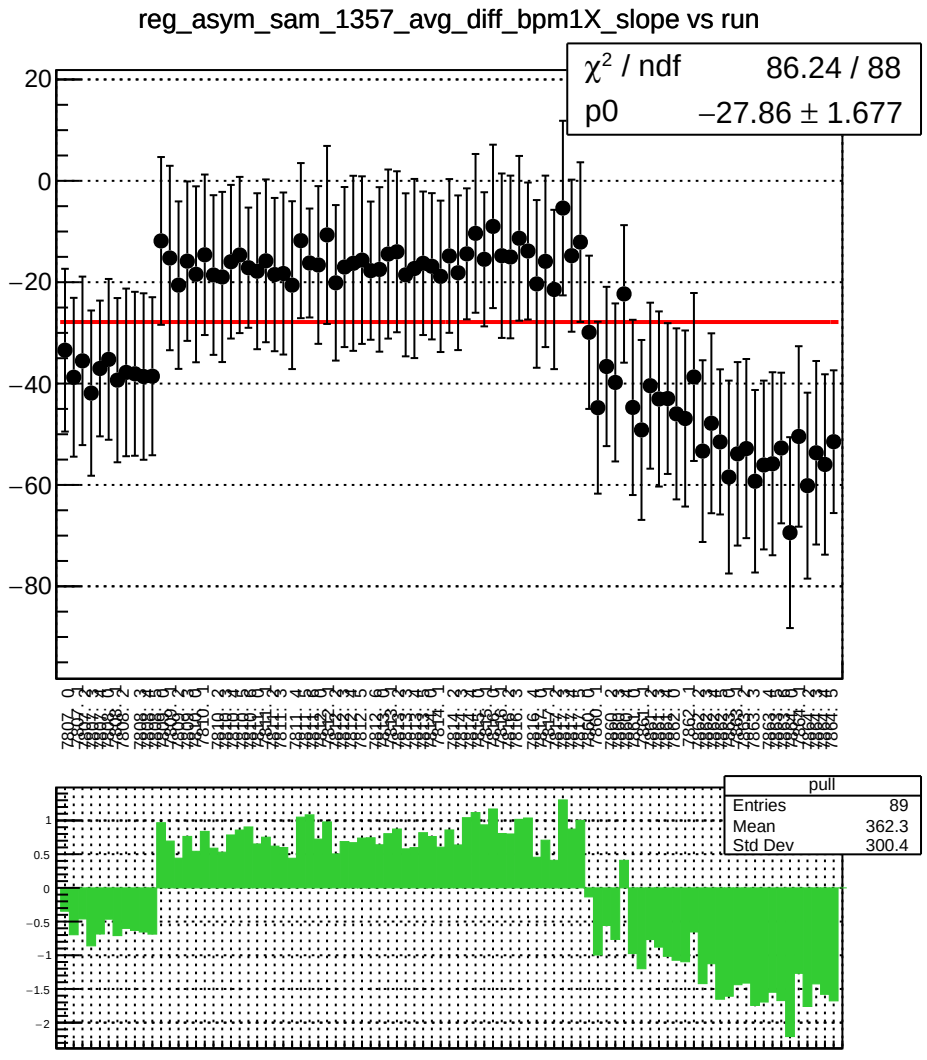

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 116.5 / 88
p0 −4.654 ± 0.2195
pull
Entries 89
Mean 1022
Std Dev 968.7

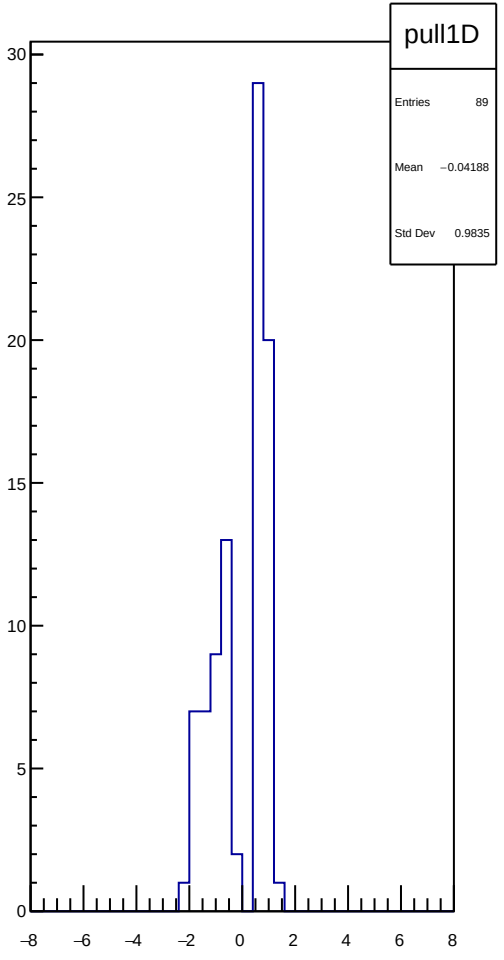

pull1D
Entries 89
Mean 0.01639
Std Dev 1.144

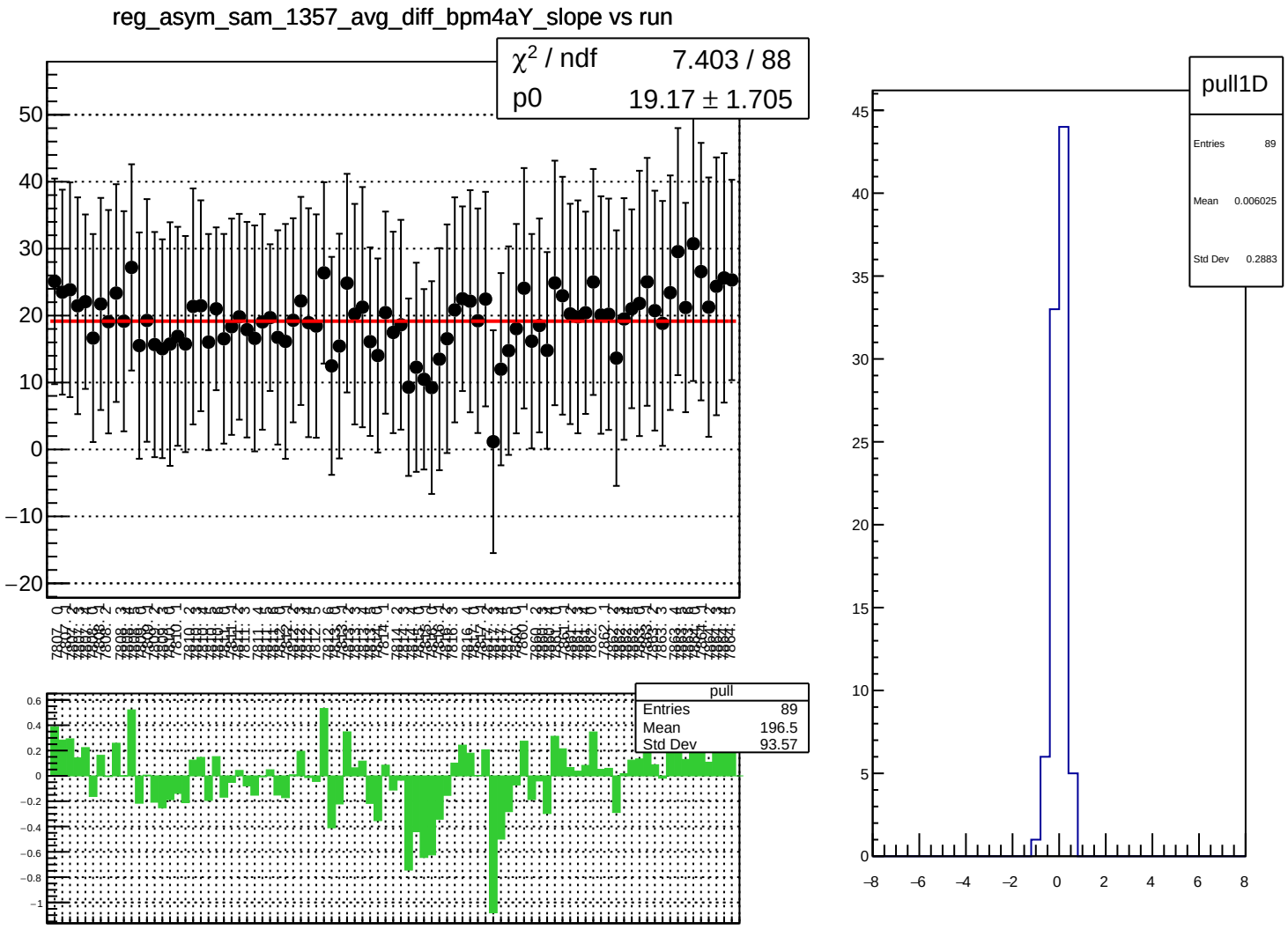

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 231.1 / 88
p0 −2.628 ± 0.2822
pull
Entries 89
Mean 586.7
Std Dev 525.3

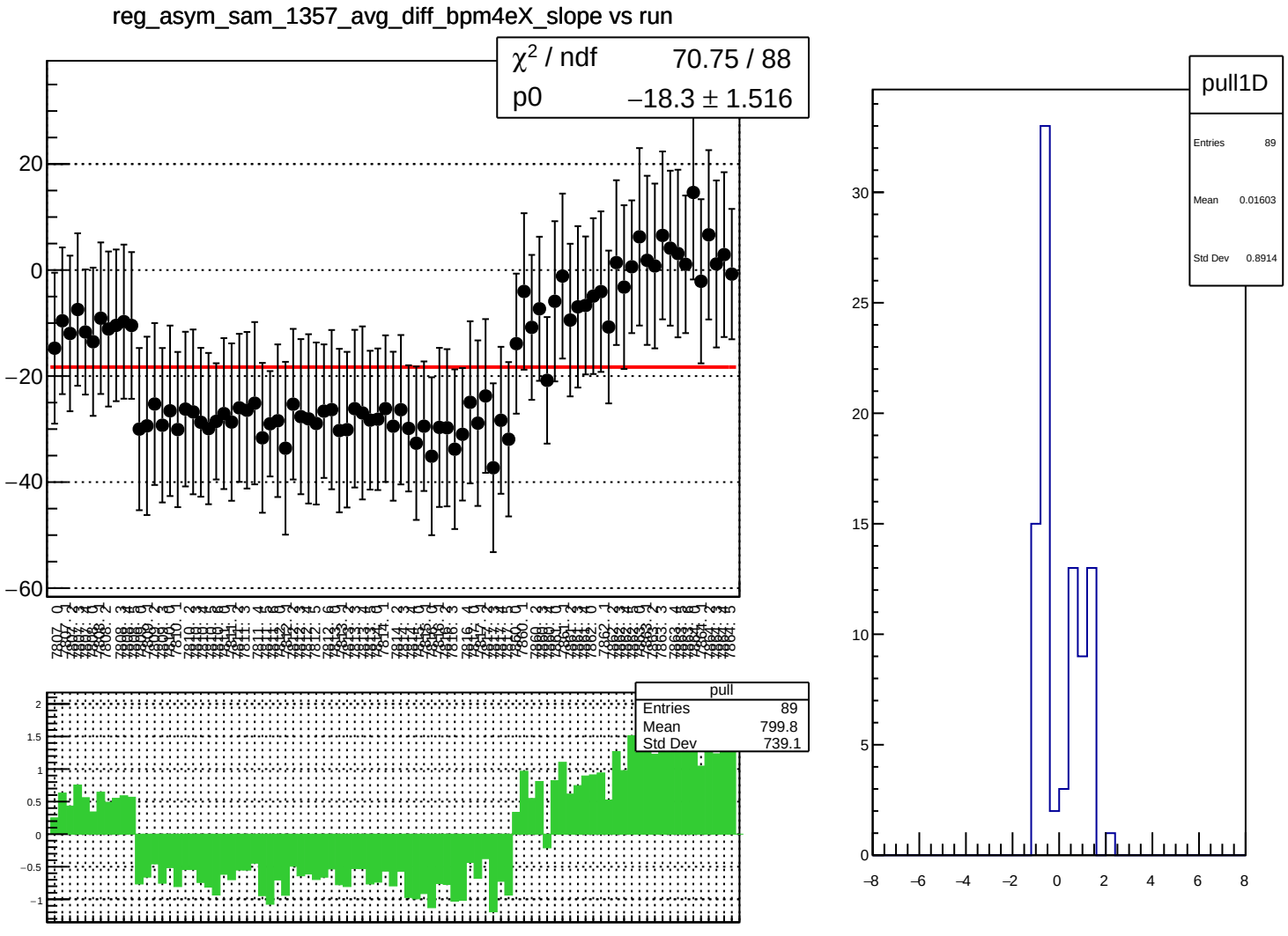

pull1D
Entries 89
Mean 0.03519
Std Dev 1.611

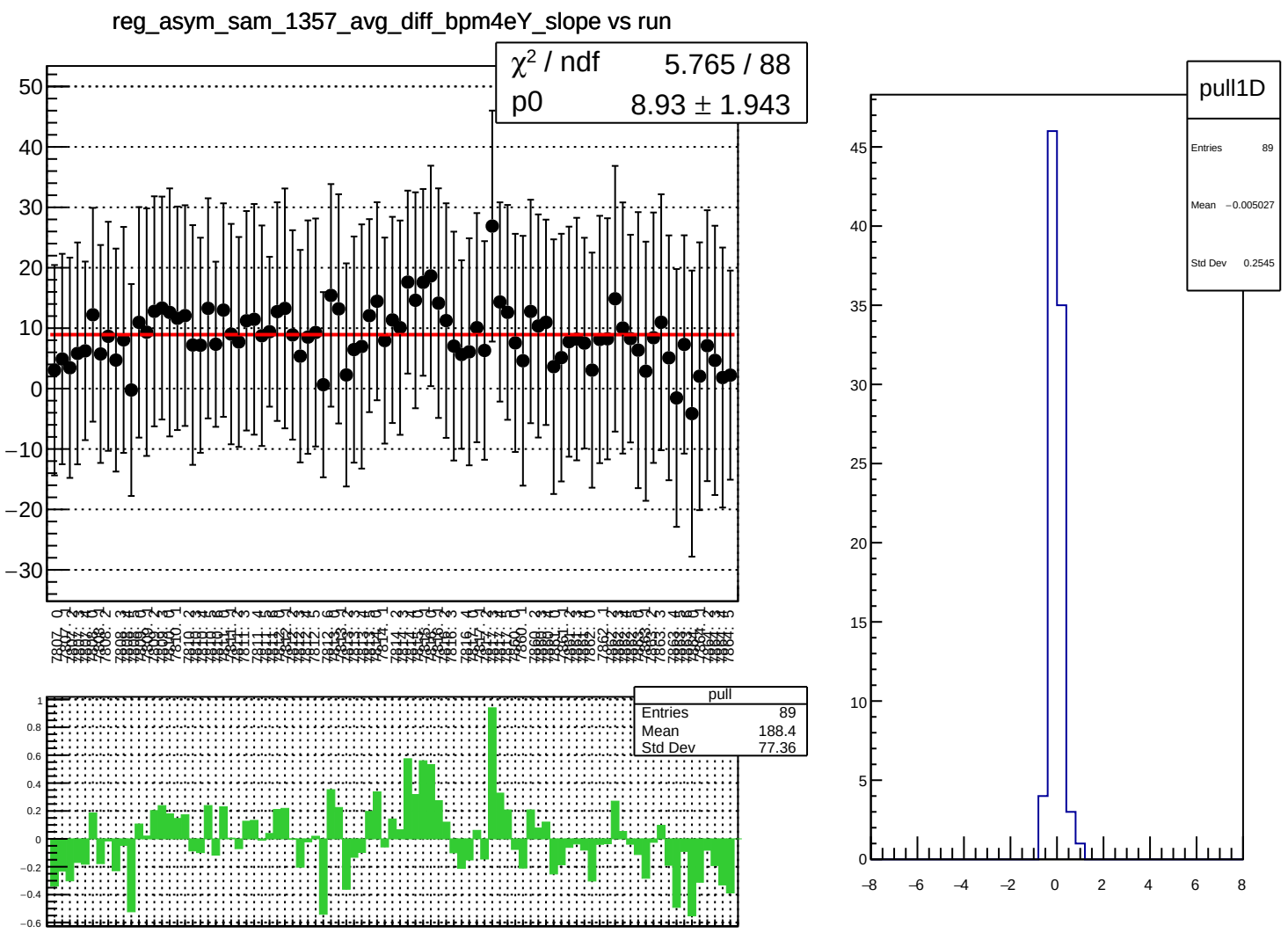

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 163 / 88
p0 −0.4713 ± 0.008202
pull
Entries 89
Mean 268.5
Std Dev 212.6
pull1D
Entries 89
Mean −0.09005
Std Dev 1.35

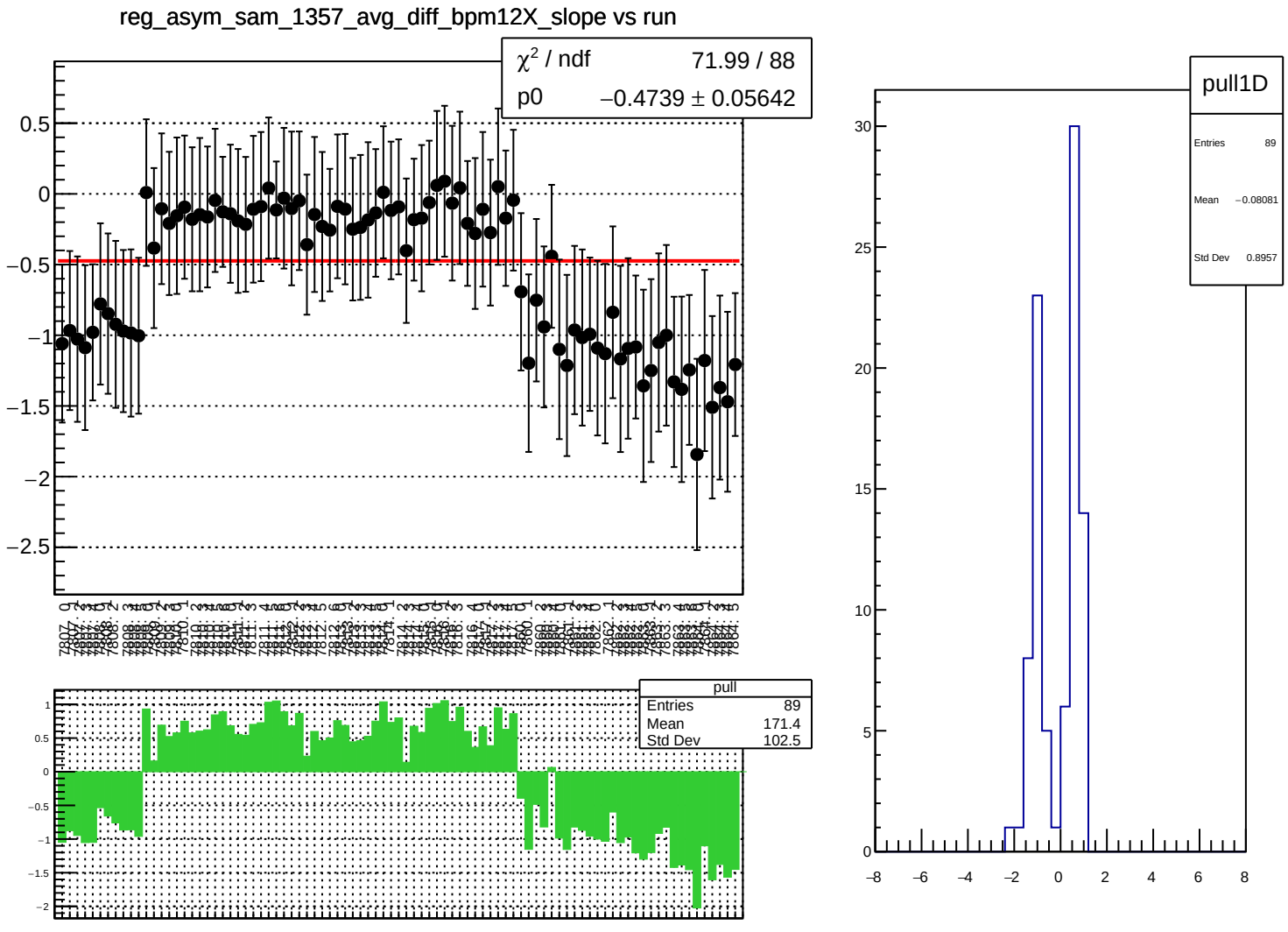

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 86.24 / 88
p0 −27.86 ± 1.677
pull
Entries 89
Mean 362.3
Std Dev 300.4

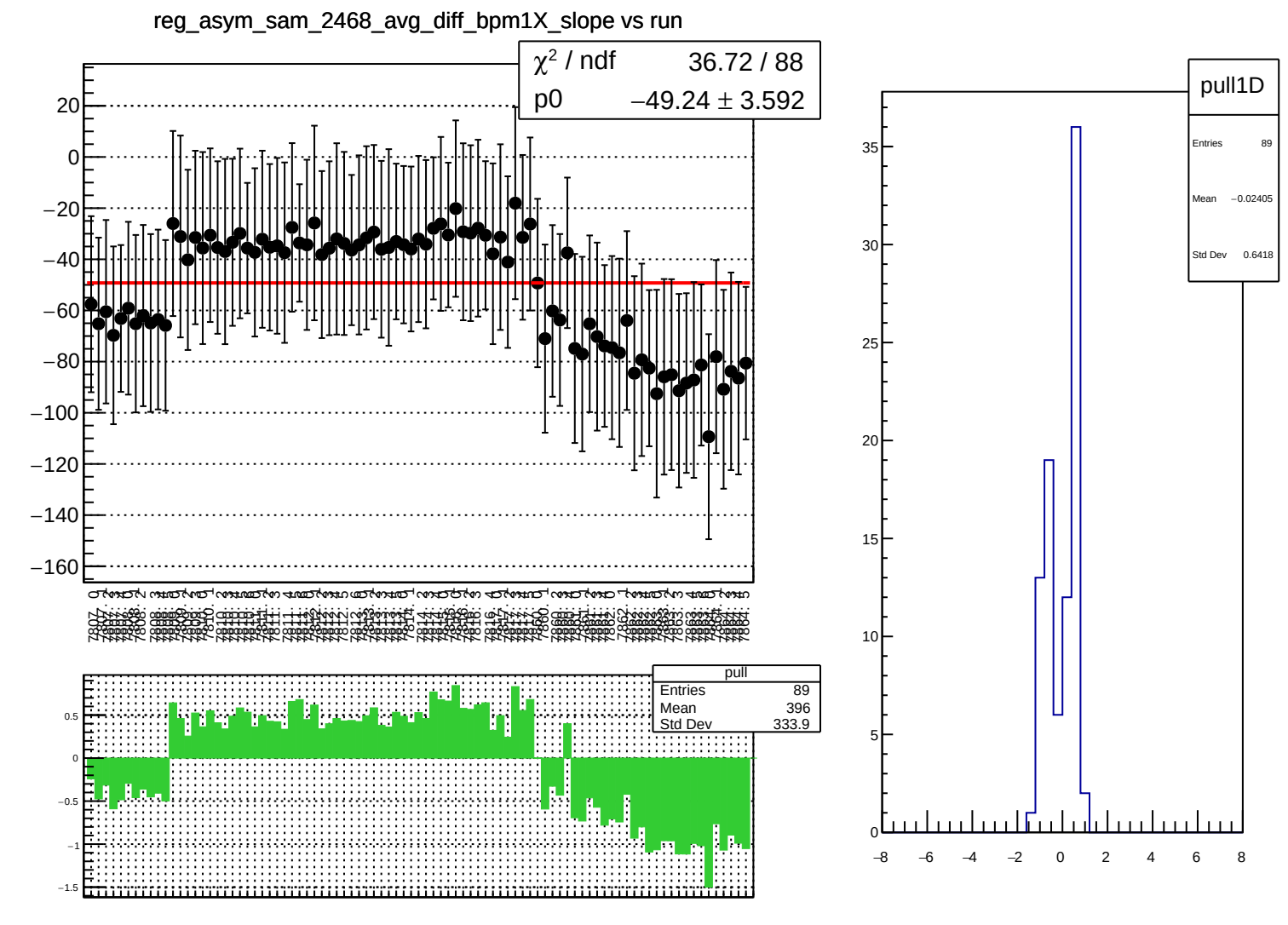

pull1D
Entries 89
Mean −0.04188
Std Dev 0.9835

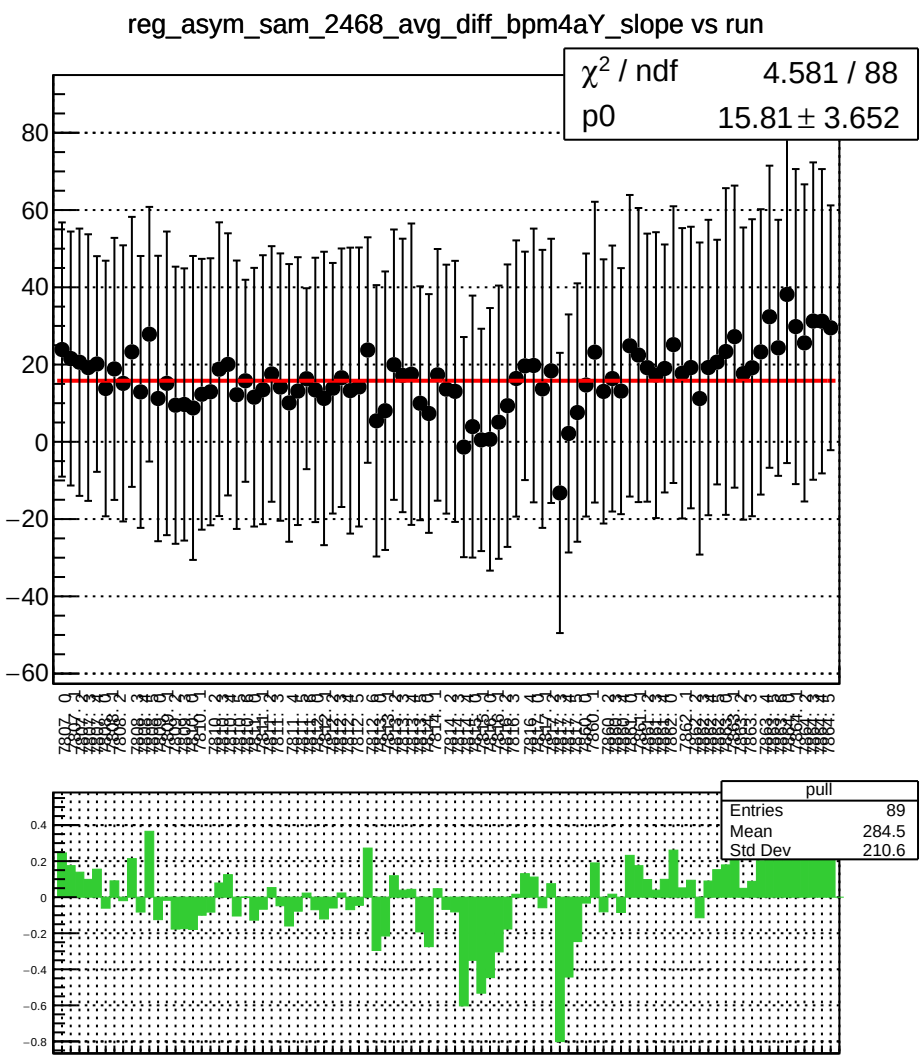

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.403 / 88
p0 19.17 ± 1.705
pull
Entries 89
Mean 196.5
Std Dev 93.57
pull1D
Entries 89
Mean 0.006025
Std Dev 0.2883

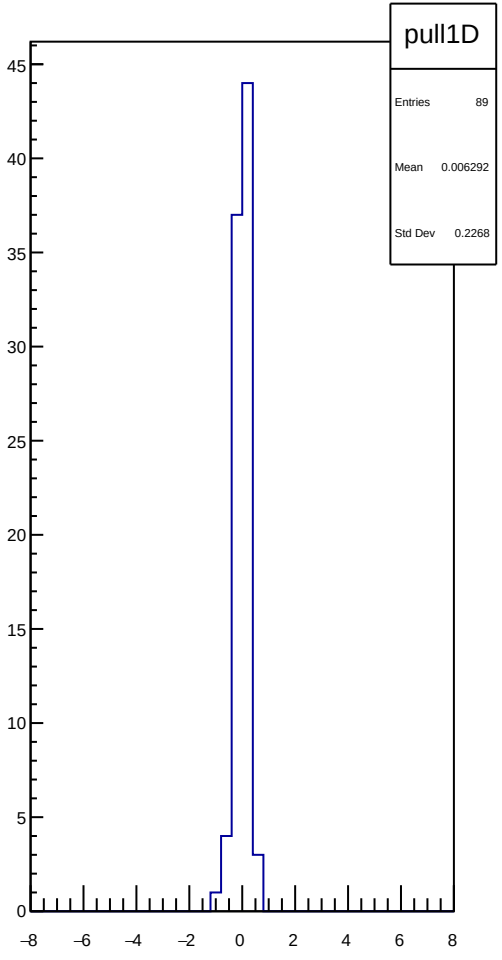

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 70.75 / 88
p0 −18.3 ± 1.516
pull
Entries 89
Mean 799.8
Std Dev 739.1
pull1D
Entries 89
Mean 0.01603
Std Dev 0.8914

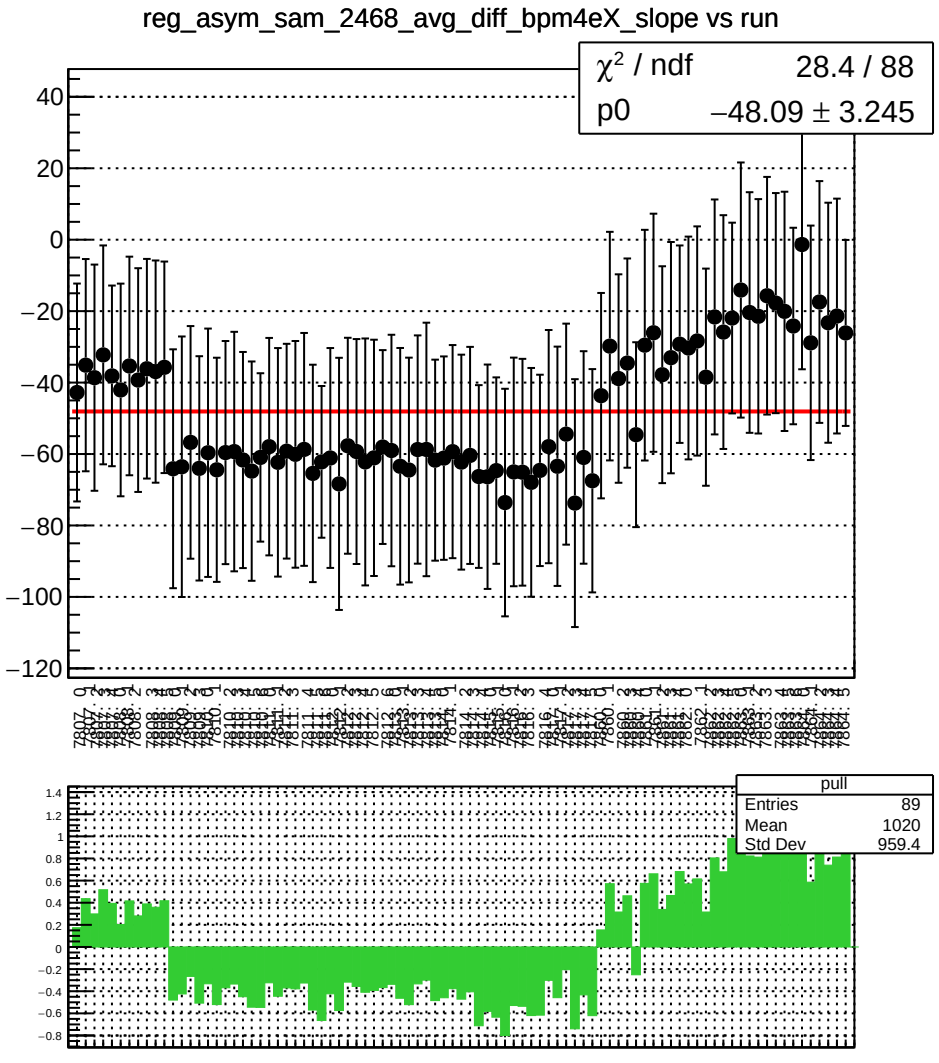

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.765 / 88
p0 8.93 ± 1.943
pull
Entries 89
Mean 188.4
Std Dev 77.36
pull1D
Entries 89
Mean −0.005027
Std Dev 0.2545

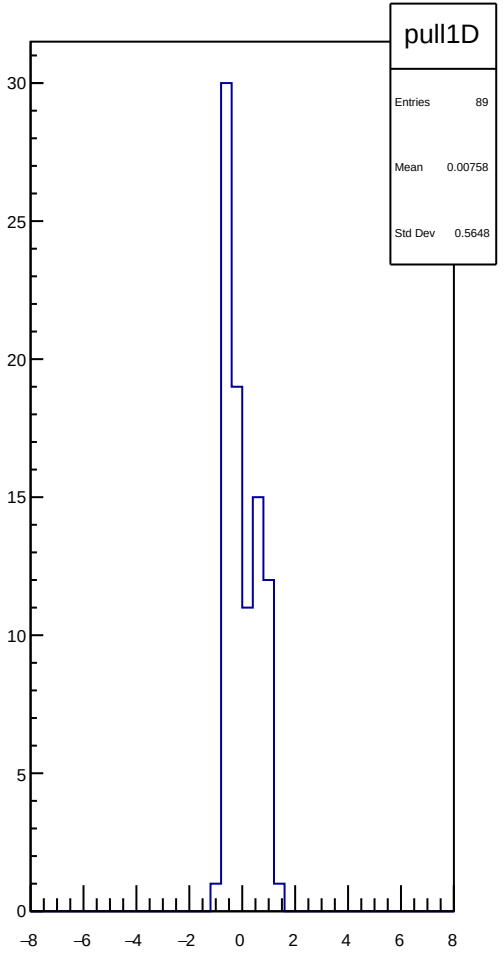

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 71.99 / 88
p0 −0.4739 ± 0.05642
pull
Entries 89
Mean 171.4
Std Dev 102.5
pull1D
Entries 89
Mean −0.08081
Std Dev 0.8957

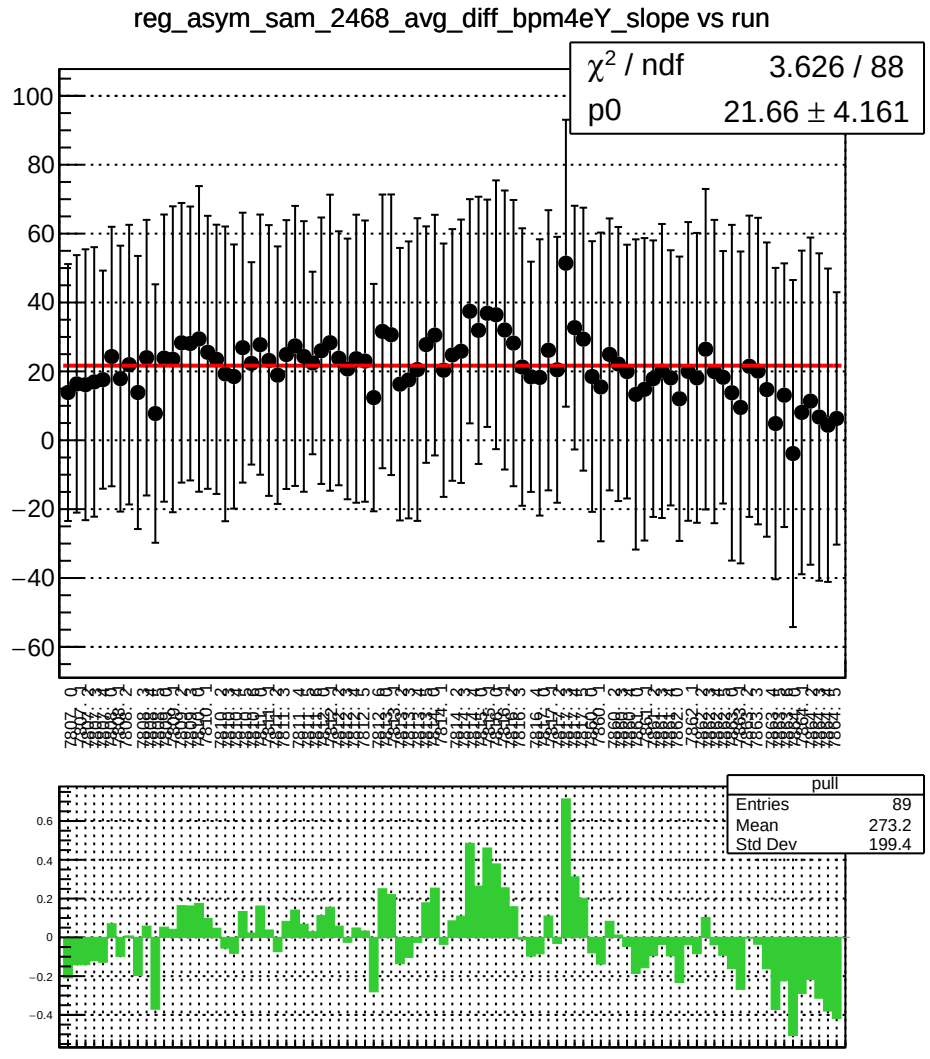

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 36.72 / 88
p0 −49.24 ± 3.592
pull
Entries 89
Mean 396
Std Dev 333.9
pull1D
Entries 89
Mean −0.02405
Std Dev 0.6418

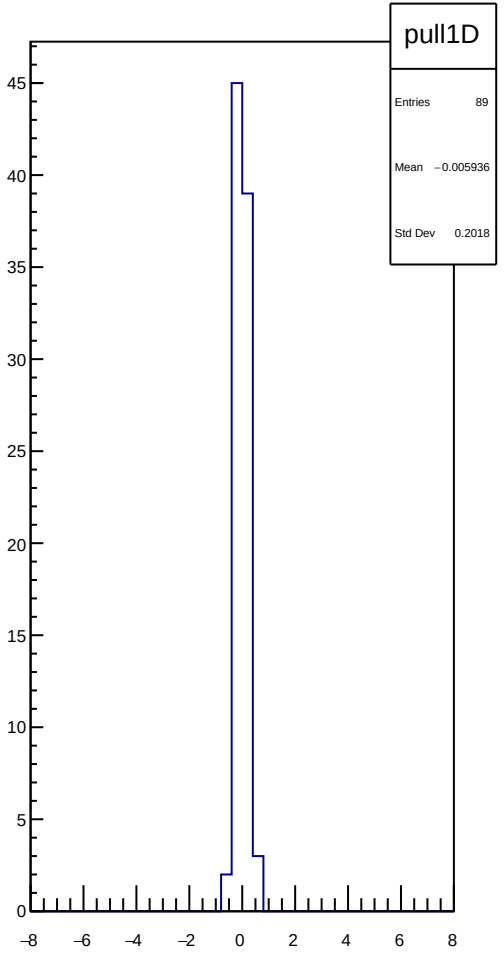

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.581 / 88
p0 15.81 ± 3.652
pull
Entries 89
Mean 284.5
Std Dev 210.6

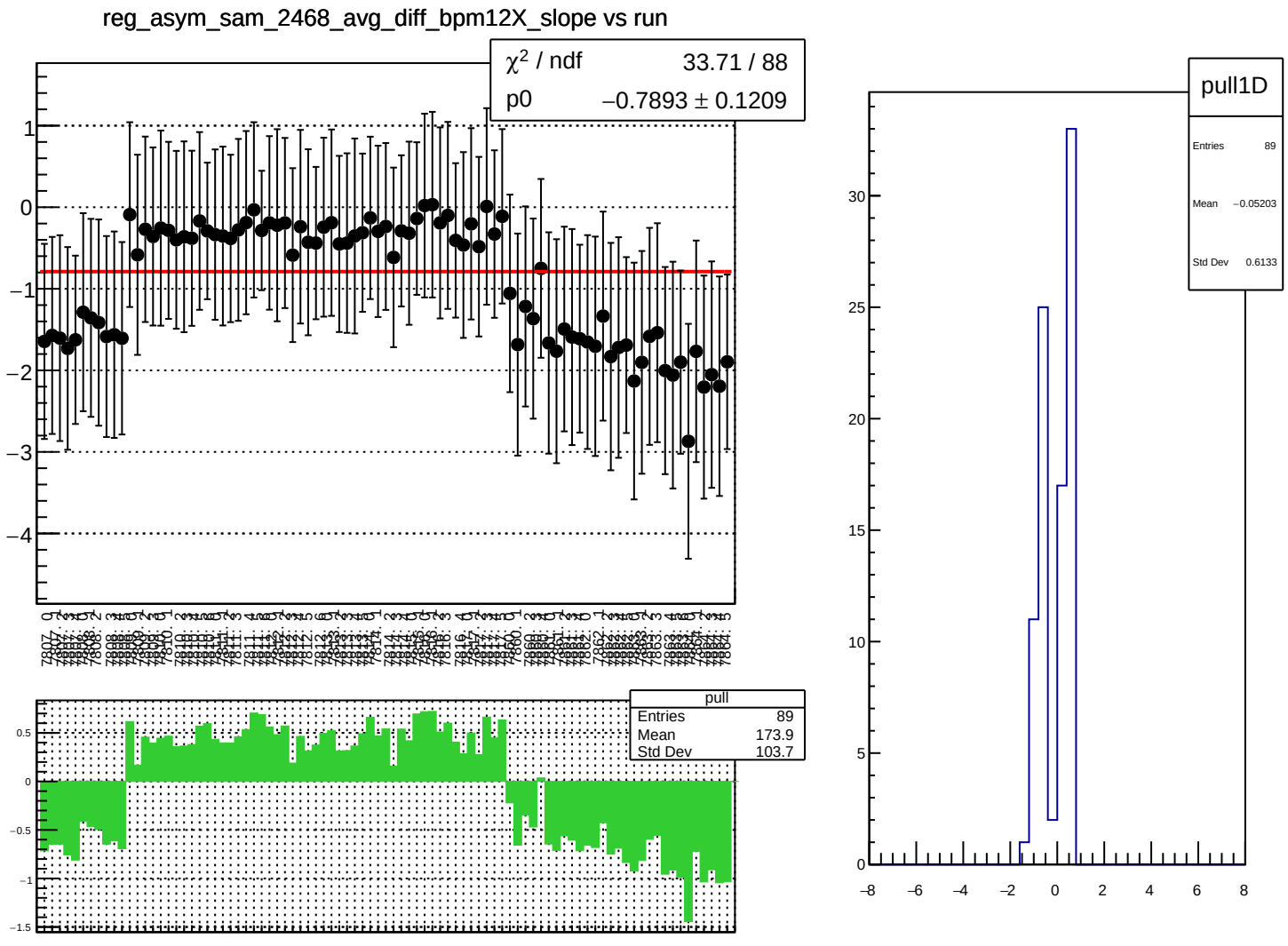

pull1D
Entries 89
Mean 0.006292
Std Dev 0.2268

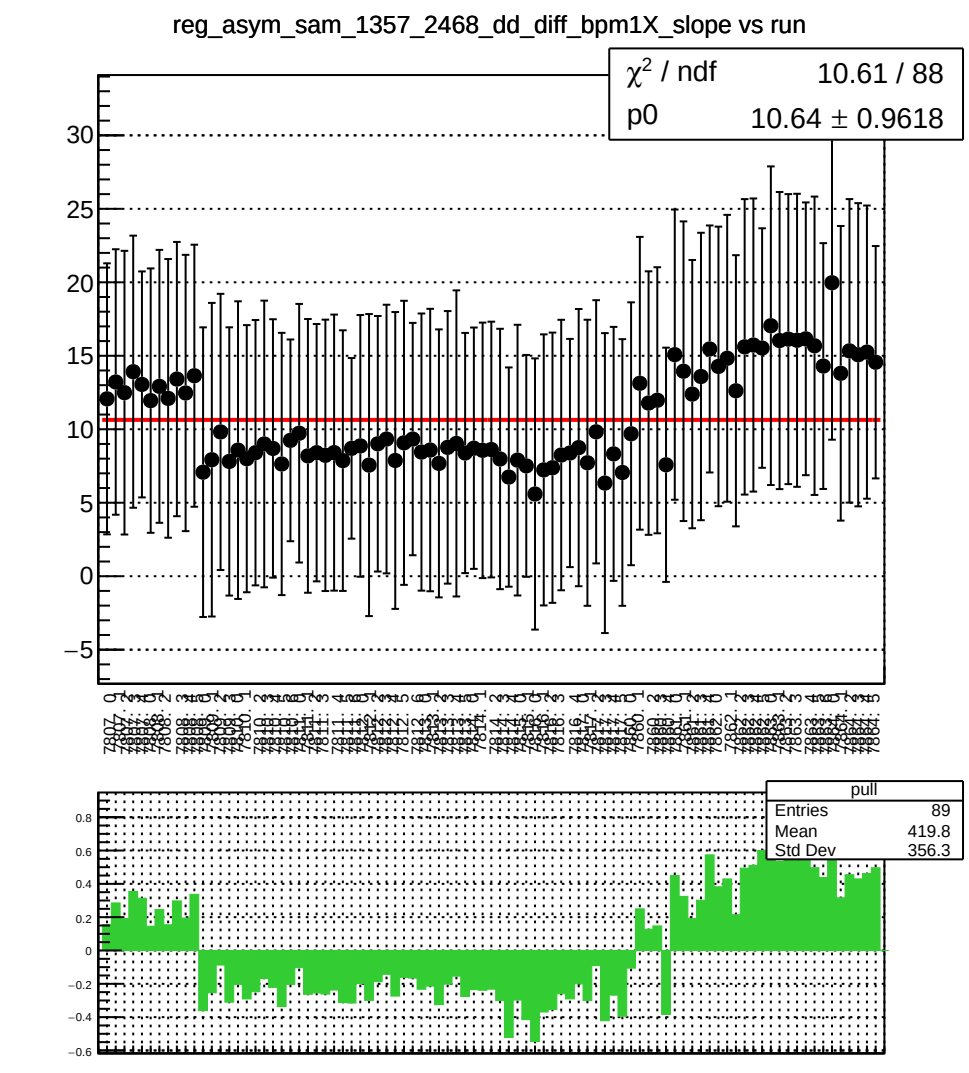

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.4 / 88
p0 −48.09 ± 3.245
pull
Entries 89
Mean 1020
Std Dev 959.4

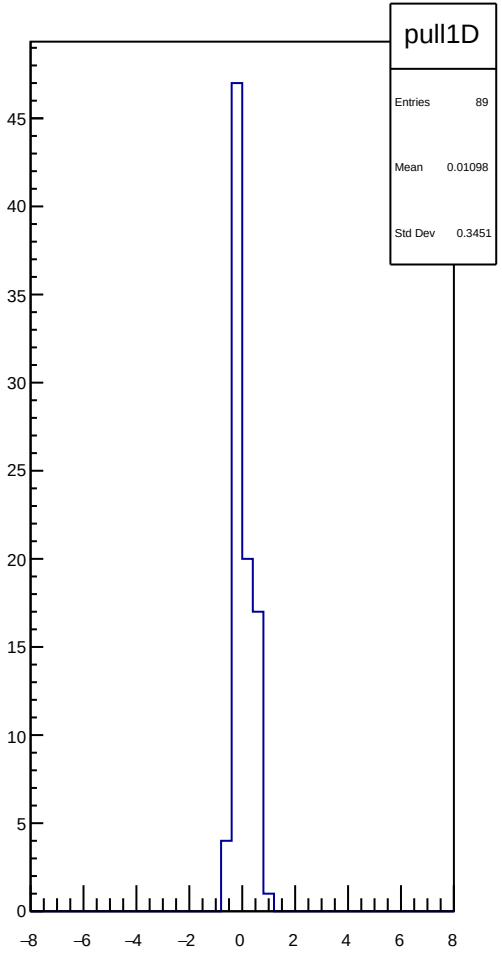

pull1D
Entries 89
Mean 0.00758
Std Dev 0.5648

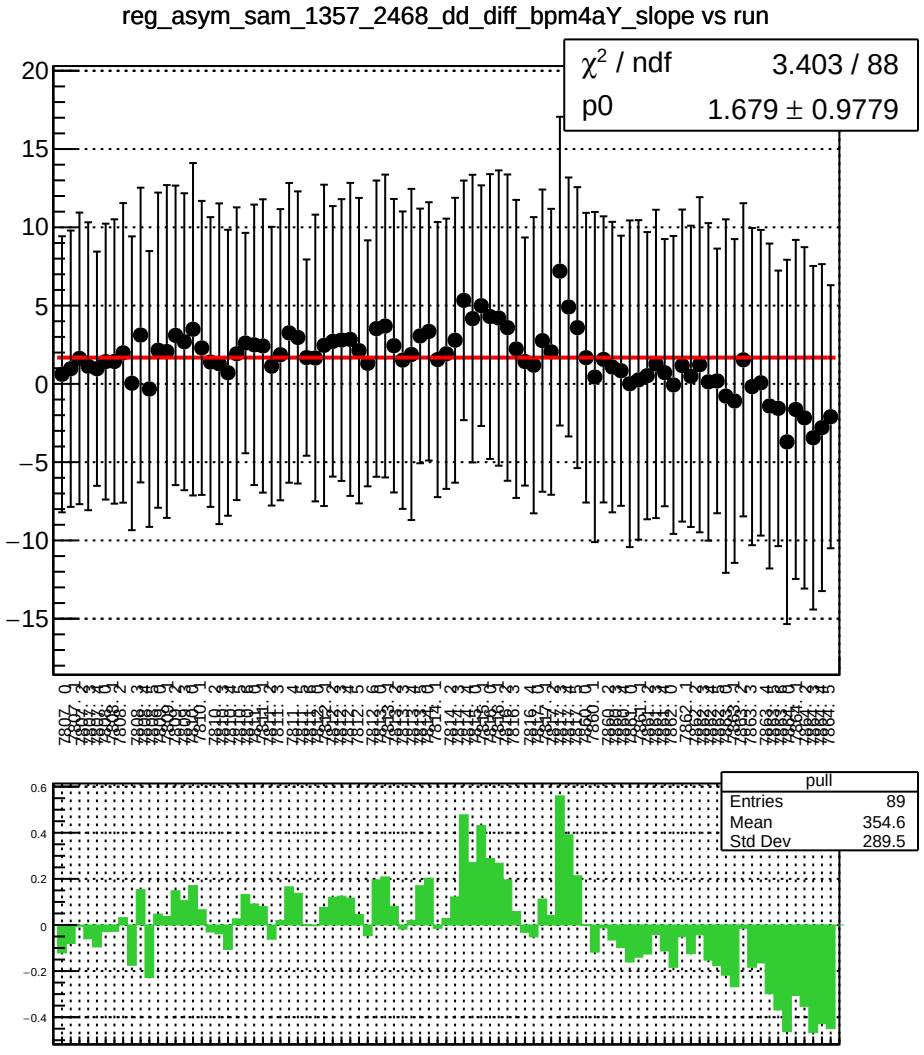

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.626 / 88
p0 21.66 ± 4.161
pull
Entries 89
Mean 273.2
Std Dev 199.4

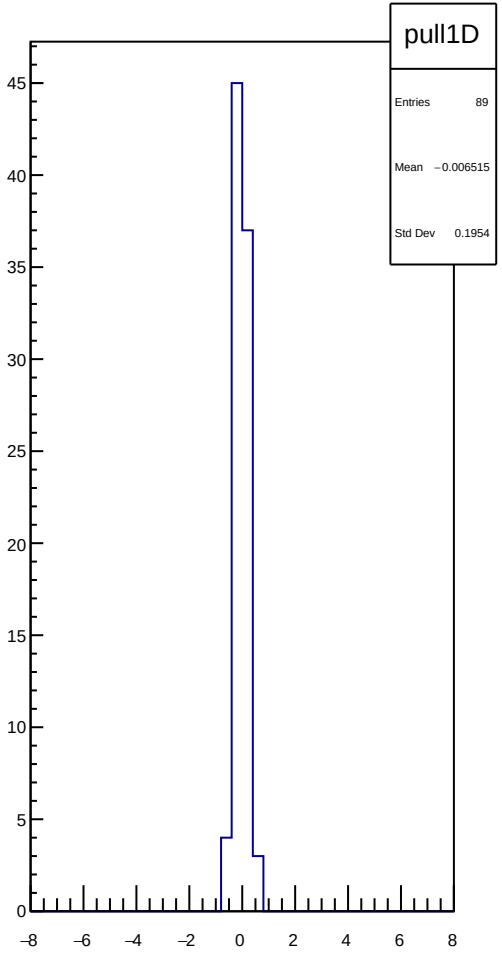

pull1D
Entries 89
Mean −0.005936
Std Dev 0.2018

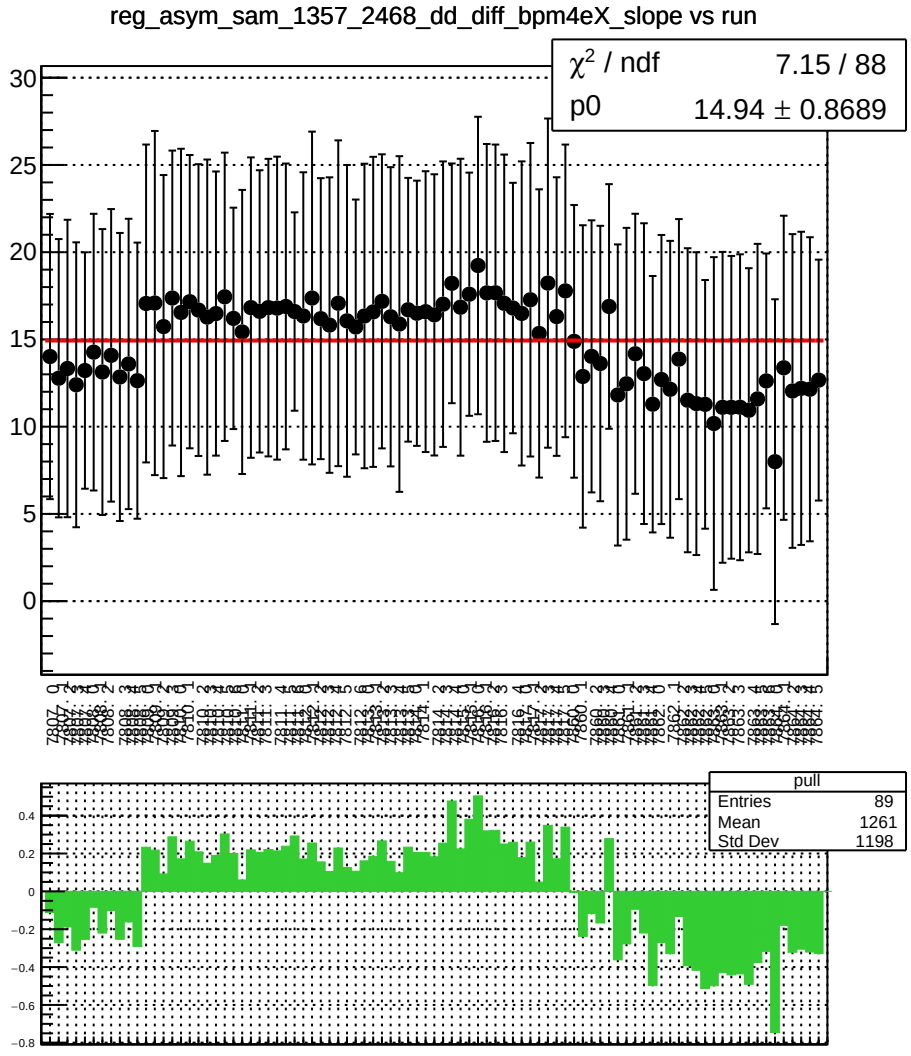

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 33.71 / 88
p0 −0.7893 ± 0.1209
pull
Entries 89
Mean 173.9
Std Dev 103.7
pull1D
Entries 89
Mean −0.05203
Std Dev 0.6133

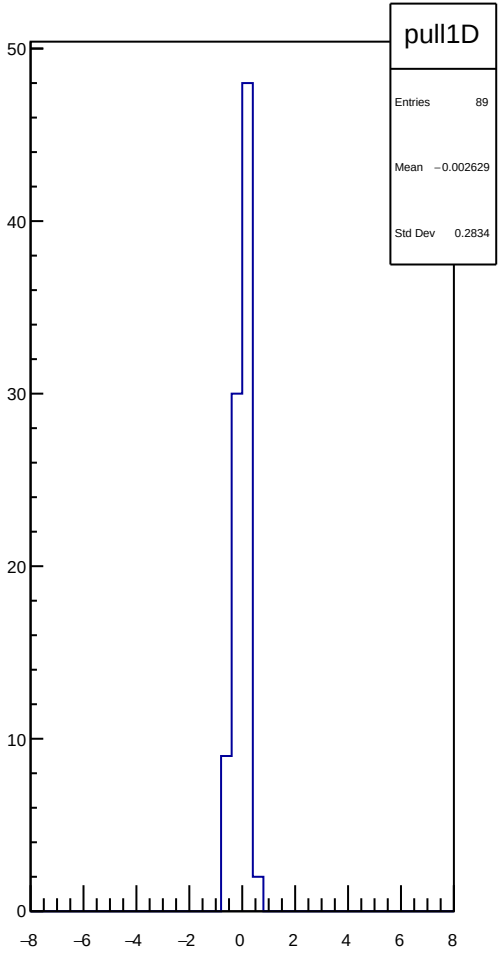

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 10.61 / 88
p0 10.64 ± 0.9618
pull
Entries 89
Mean 419.8
Std Dev 356.3

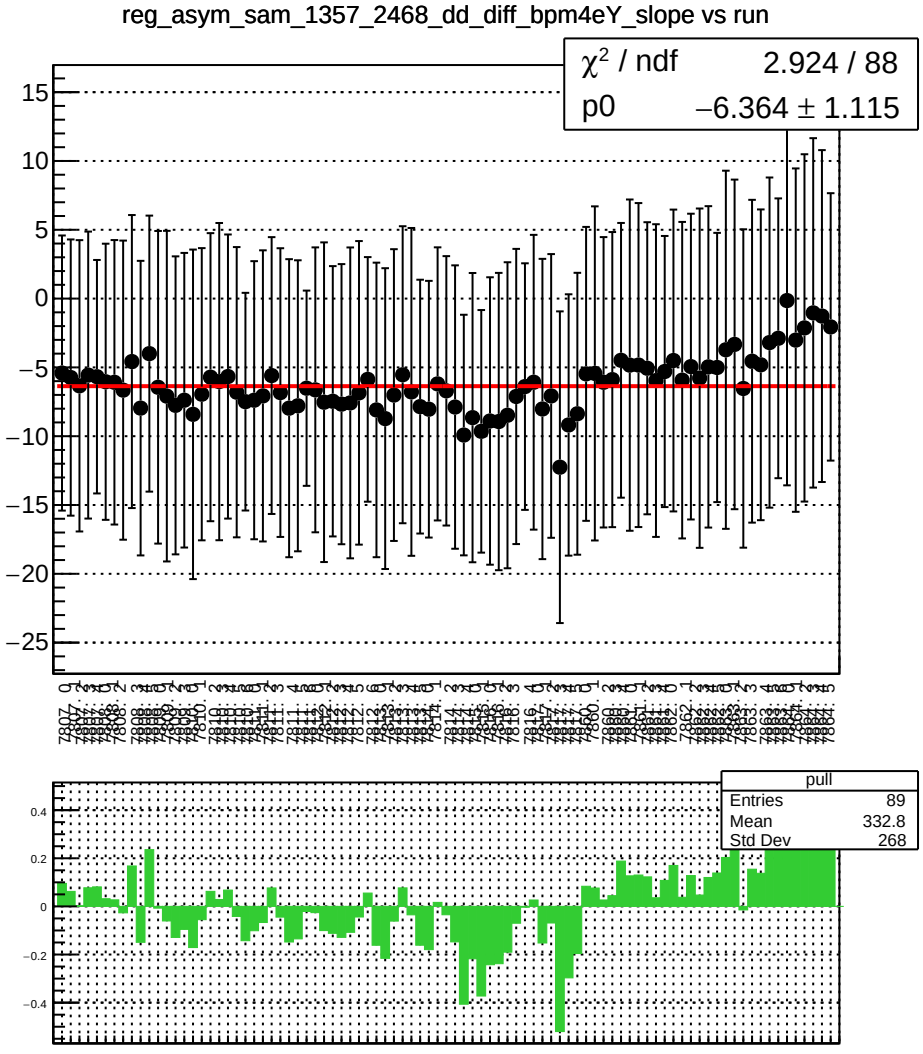

pull1D
Entries 89
Mean 0.01098
Std Dev 0.3451

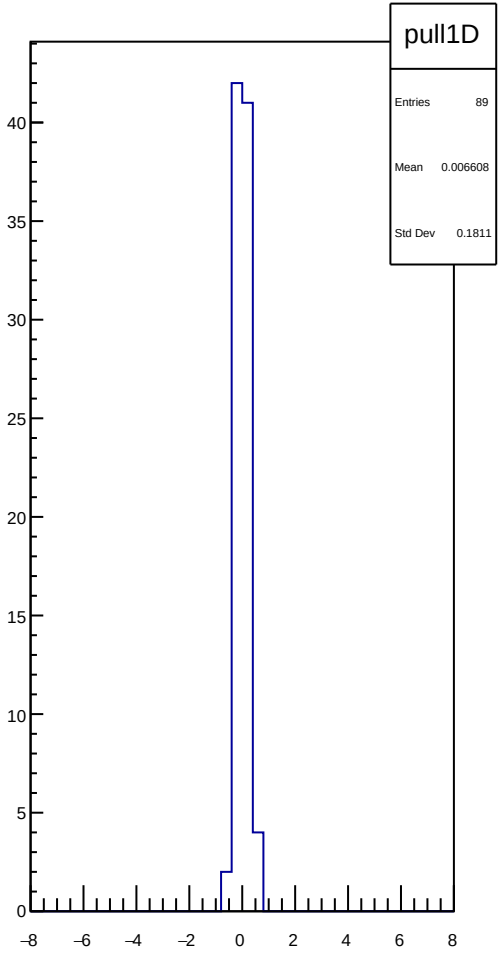

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.403 / 88
p0 1.679 ± 0.9779
pull
Entries 89
Mean 354.6
Std Dev 289.5

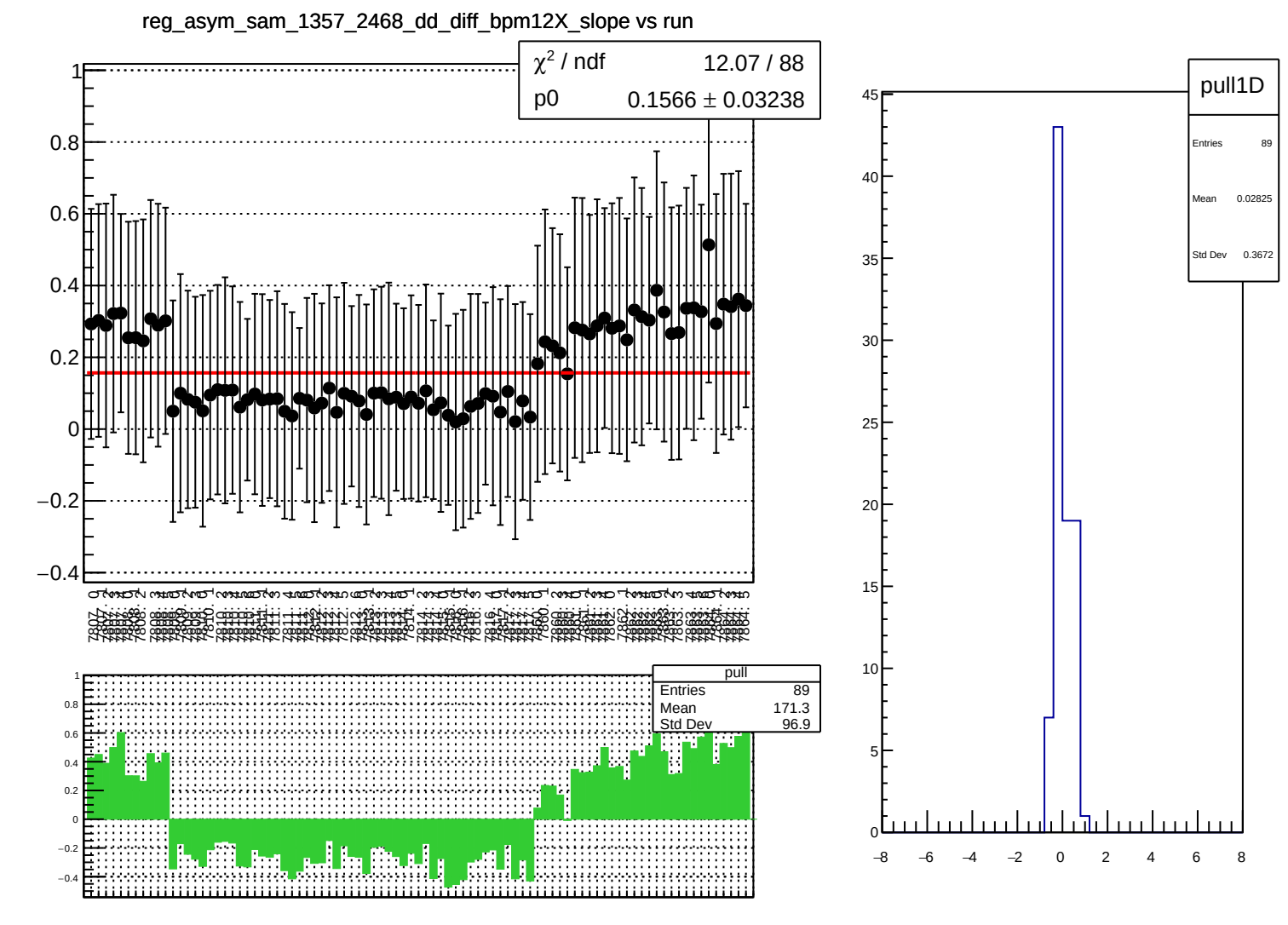

pull1D
Entries 89
Mean −0.006515
Std Dev 0.1954

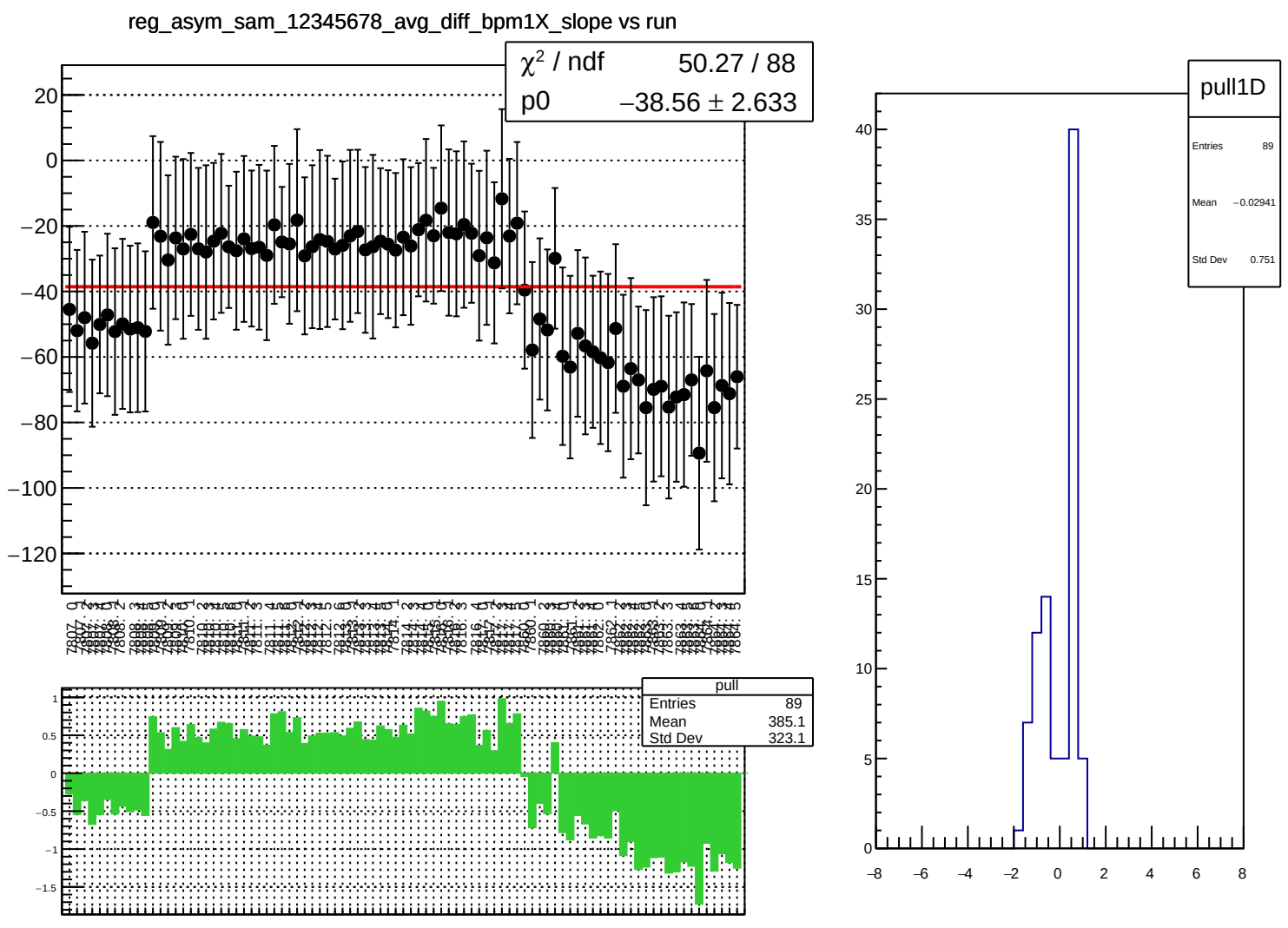

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.15 / 88
p0 14.94 ± 0.8689
pull
Entries 89
Mean 1261
Std Dev 1198

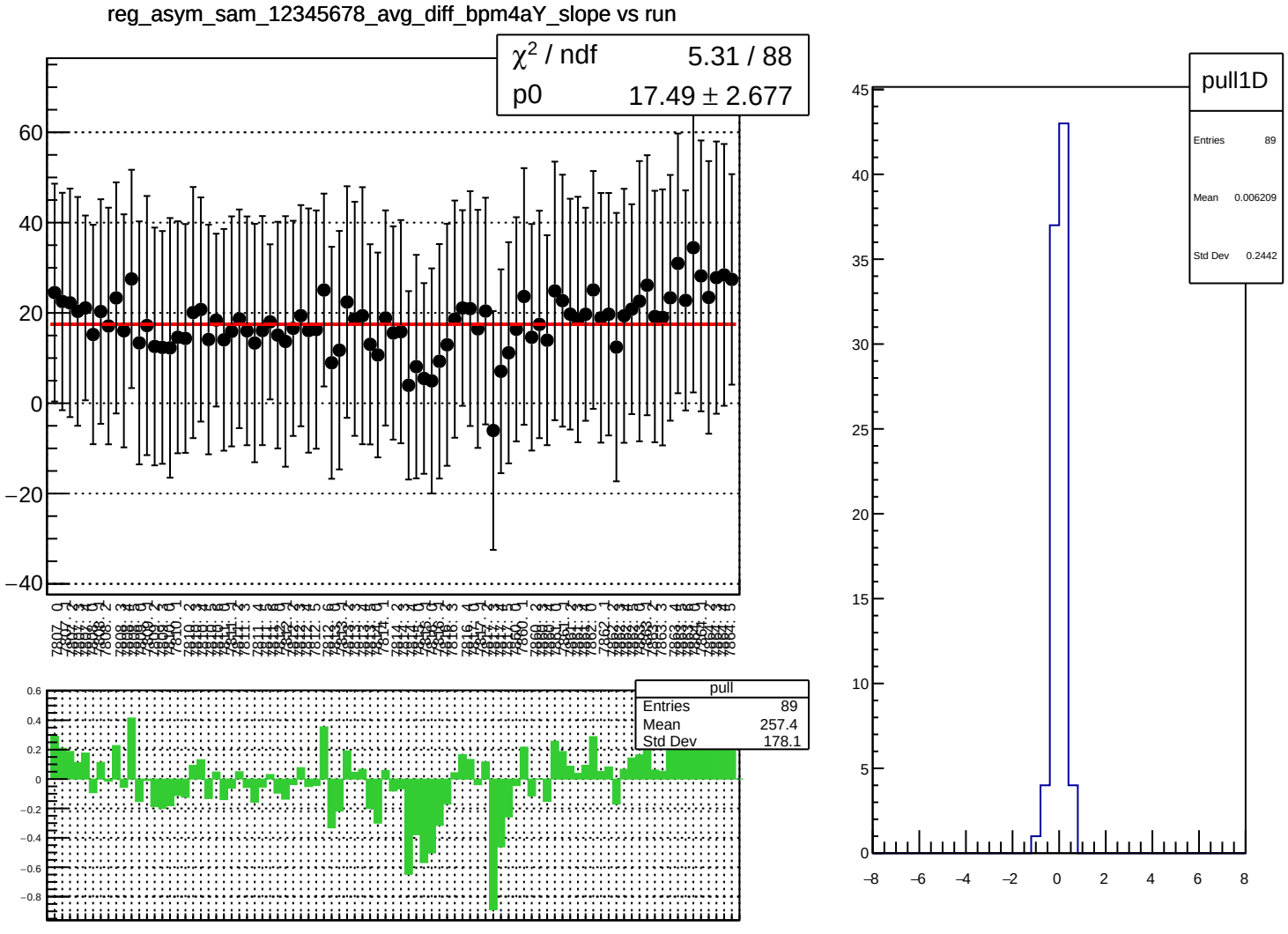

pull1D
Entries 89
Mean −0.002629
Std Dev 0.2834

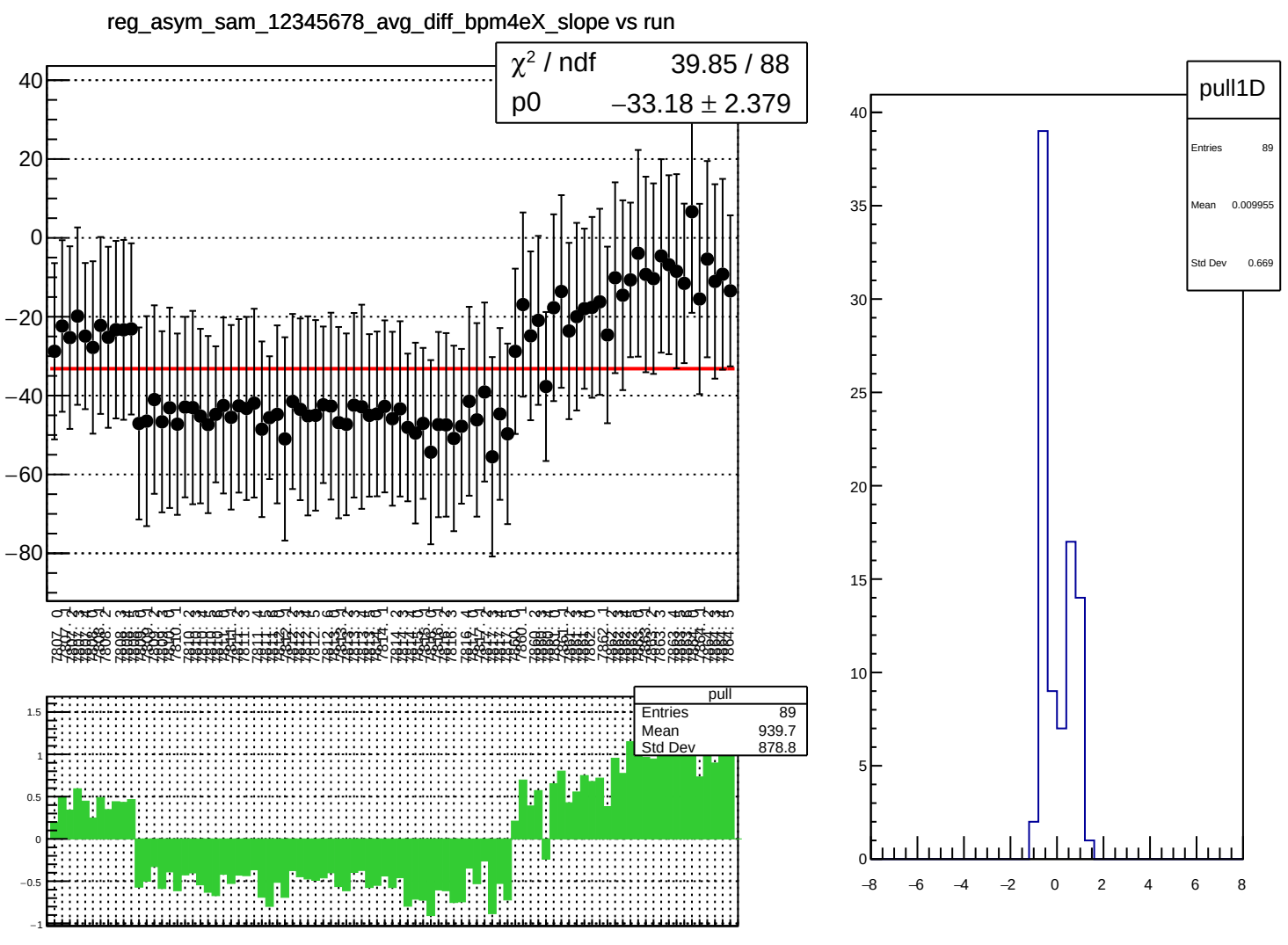

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.924 / 88
p0 −6.364 ± 1.115
pull
Entries 89
Mean 332.8
Std Dev 268

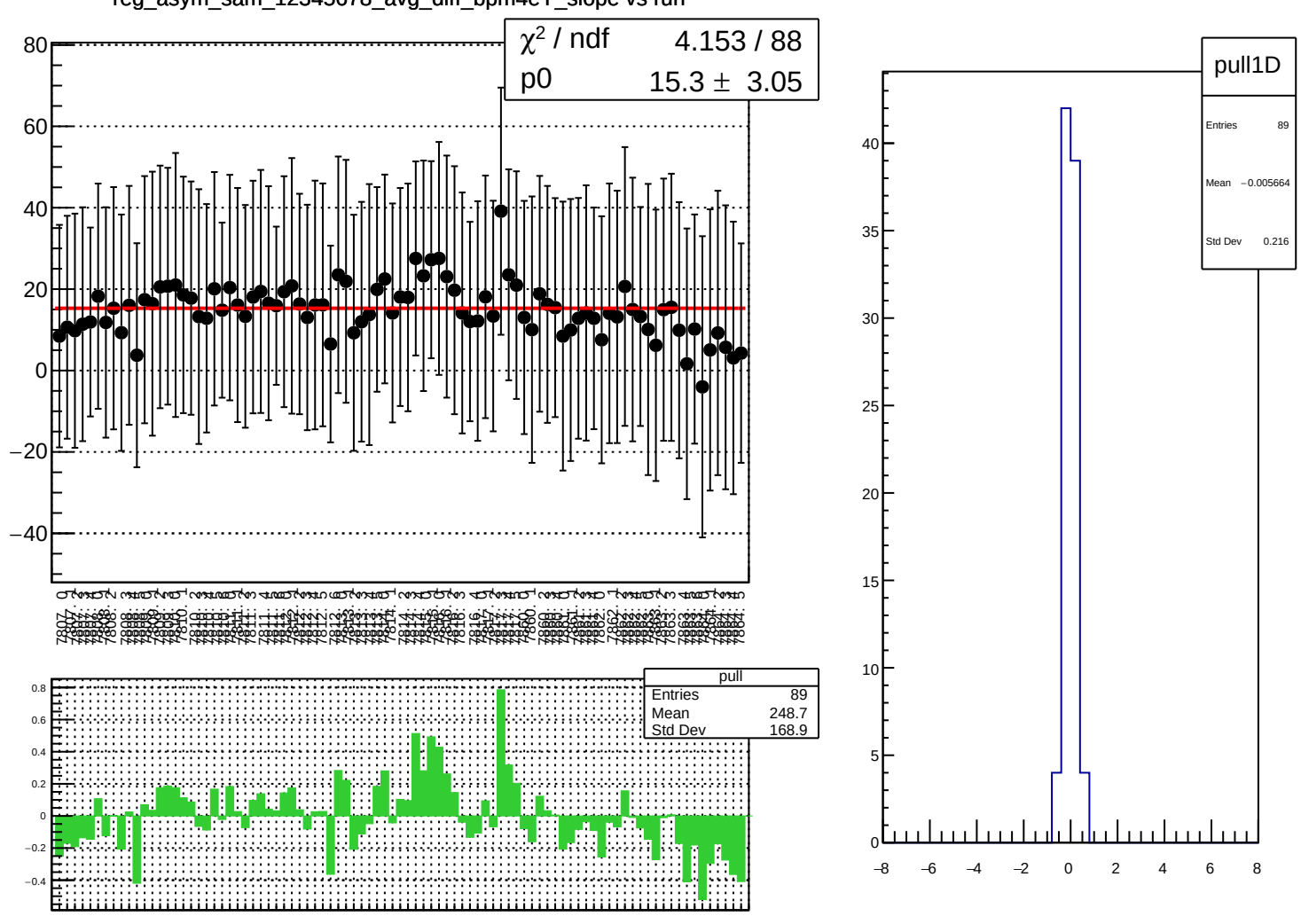

pull1D
Entries 89
Mean 0.006608
Std Dev 0.1811

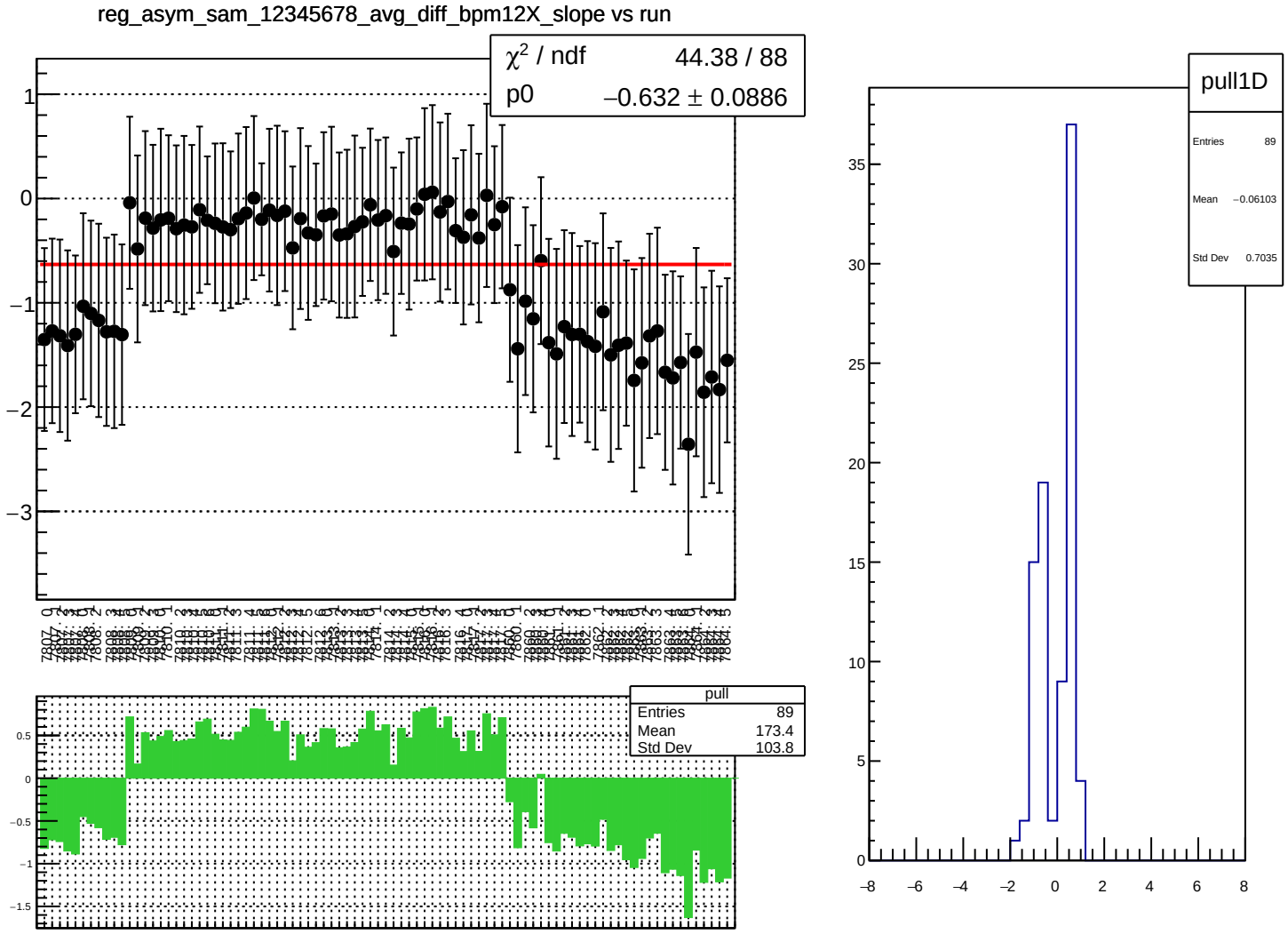

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 12.07 / 88
p0 0.1566 ± 0.03238
pull
Entries 89
Mean 171.3
Std Dev 96.9
pull1D
Entries 89
Mean 0.02825
Std Dev 0.3672

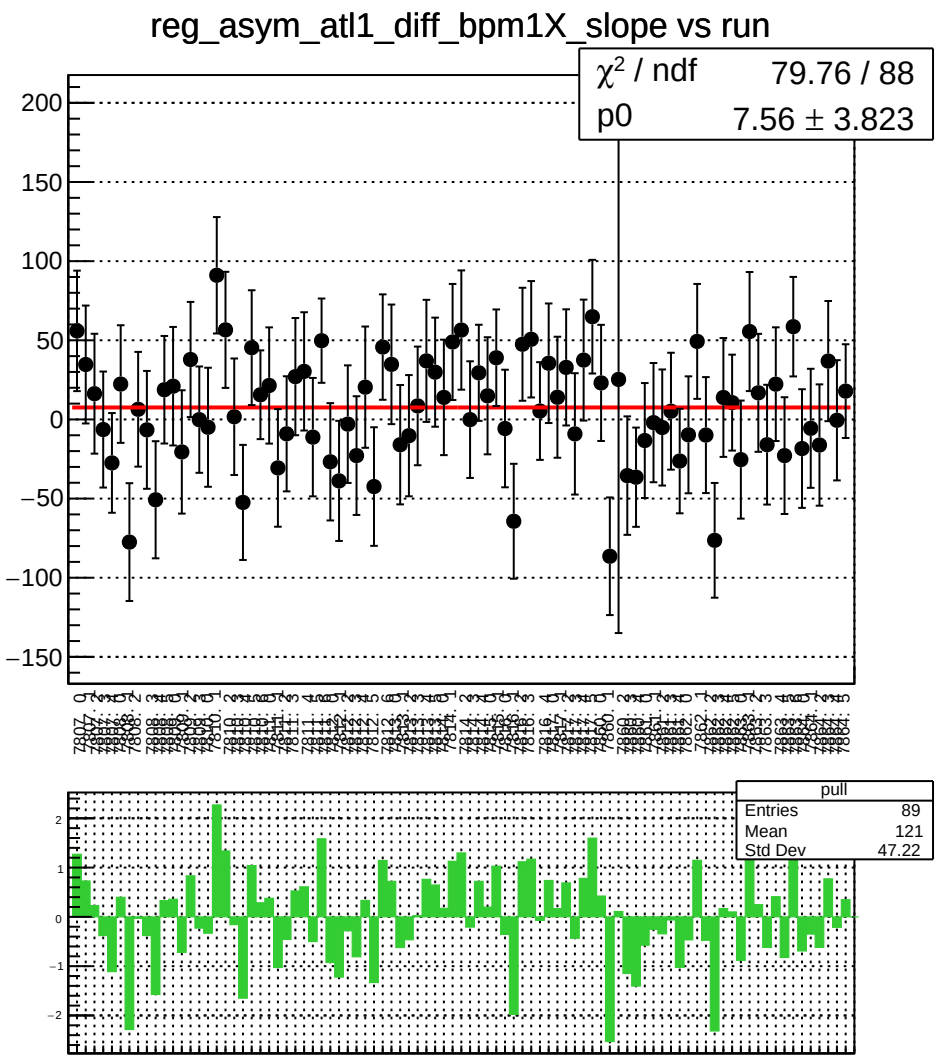

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 50.27 / 88
p0 −38.56 ± 2.633
pull
Entries 89
Mean 385.1
Std Dev 323.1
pull1D
Entries 89
Mean −0.02941
Std Dev 0.751

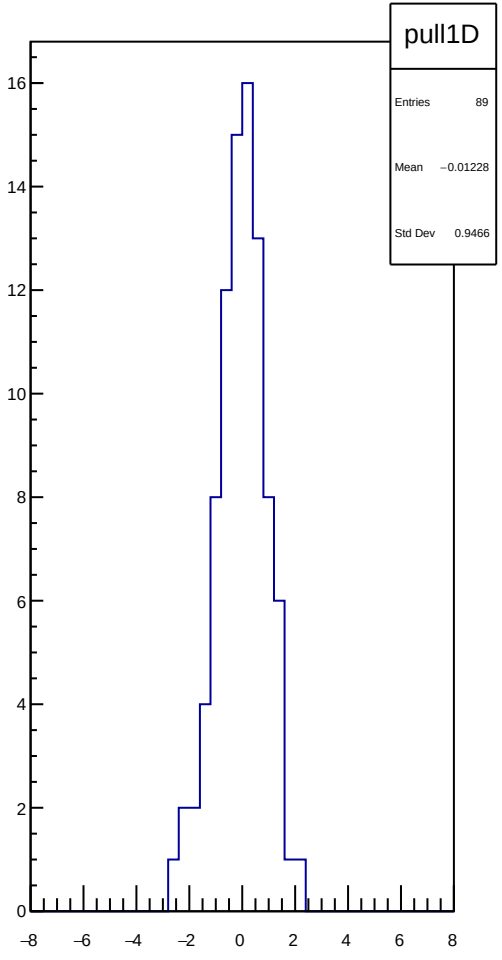

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.31 / 88
p0 17.49 ± 2.677
pull
Entries 89
Mean 257.4
Std Dev 178.1
pull1D
Entries 89
Mean 0.006209
Std Dev 0.2442

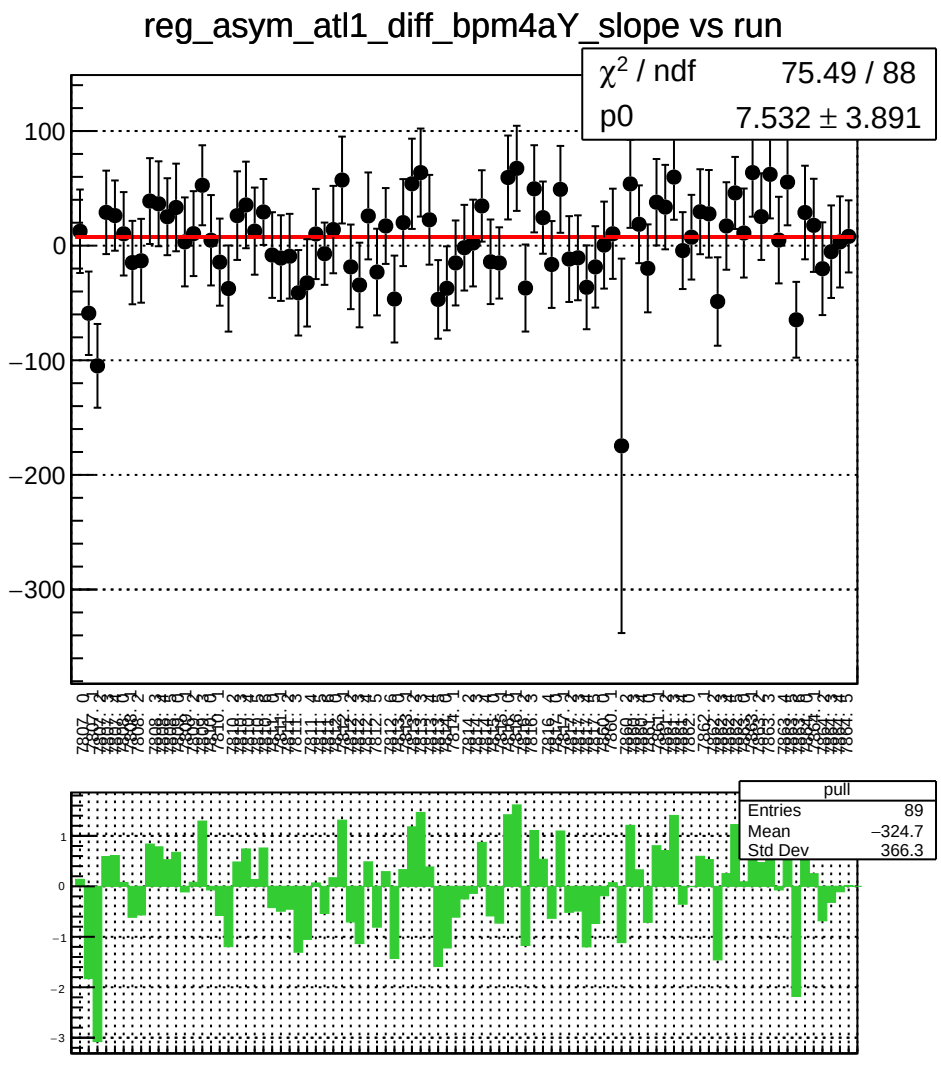

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 39.85 / 88
p0 −33.18 ± 2.379
pull
Entries 89
Mean 939.7
Std Dev 878.8
pull1D
Entries 89
Mean 0.009955
Std Dev 0.669

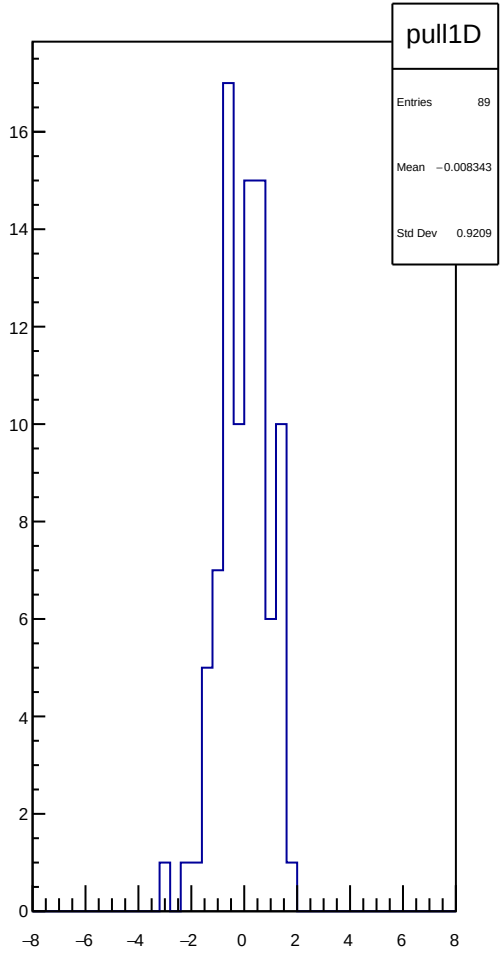

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.153 / 88
p0 15.3 ± 3.05
pull
Entries 89
Mean 248.7
Std Dev 168.9
pull1D
Entries 89
Mean −0.005664
Std Dev 0.216

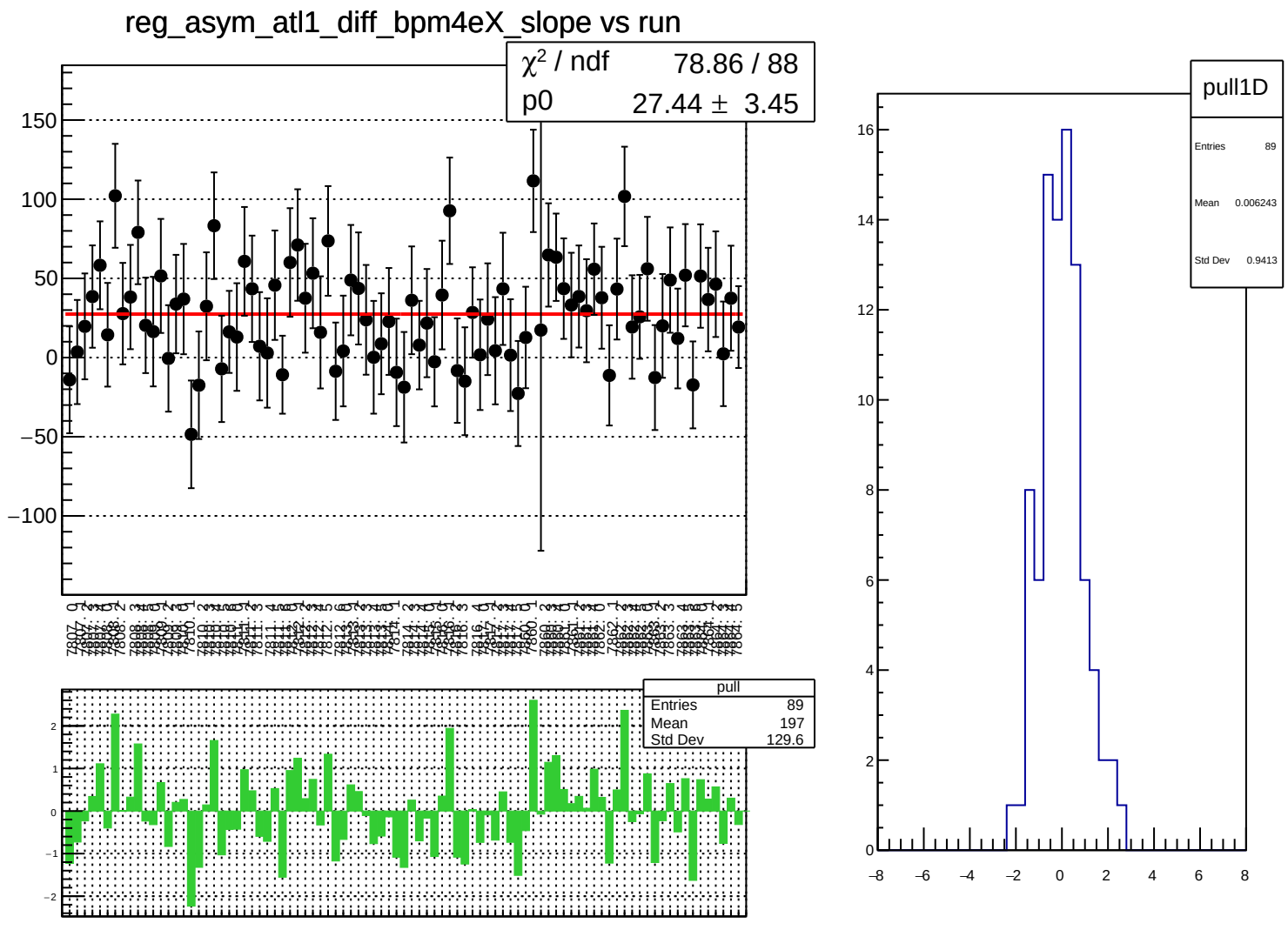

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 44.38 / 88
p0 −0.632 ± 0.0886
pull
Entries 89
Mean 173.4
Std Dev 103.8
pull1D
Entries 89
Mean −0.06103
Std Dev 0.7035

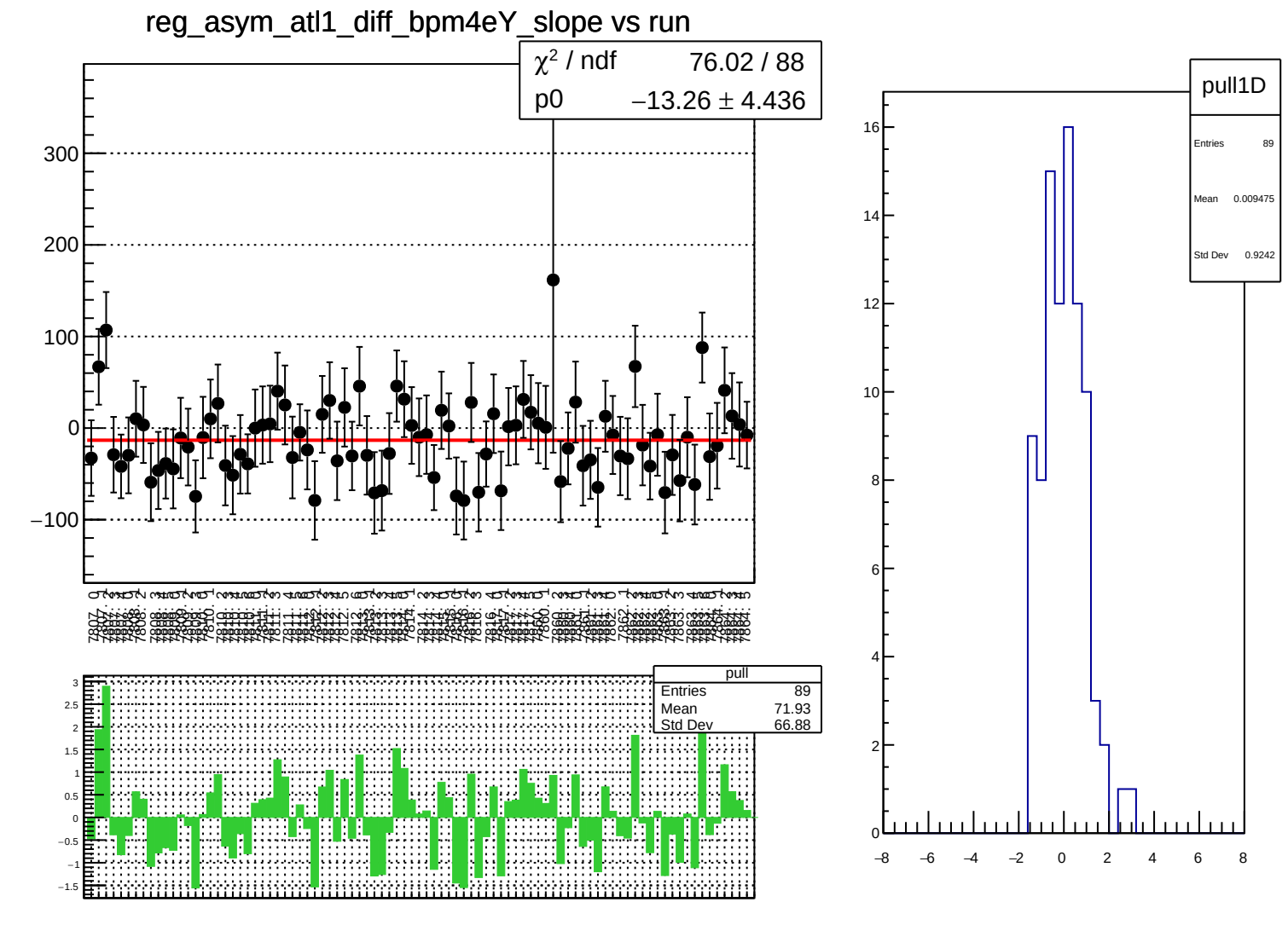

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 79.76 / 88
p0 7.56 ± 3.823
pull
Entries 89
Mean 121
Std Dev 47.22

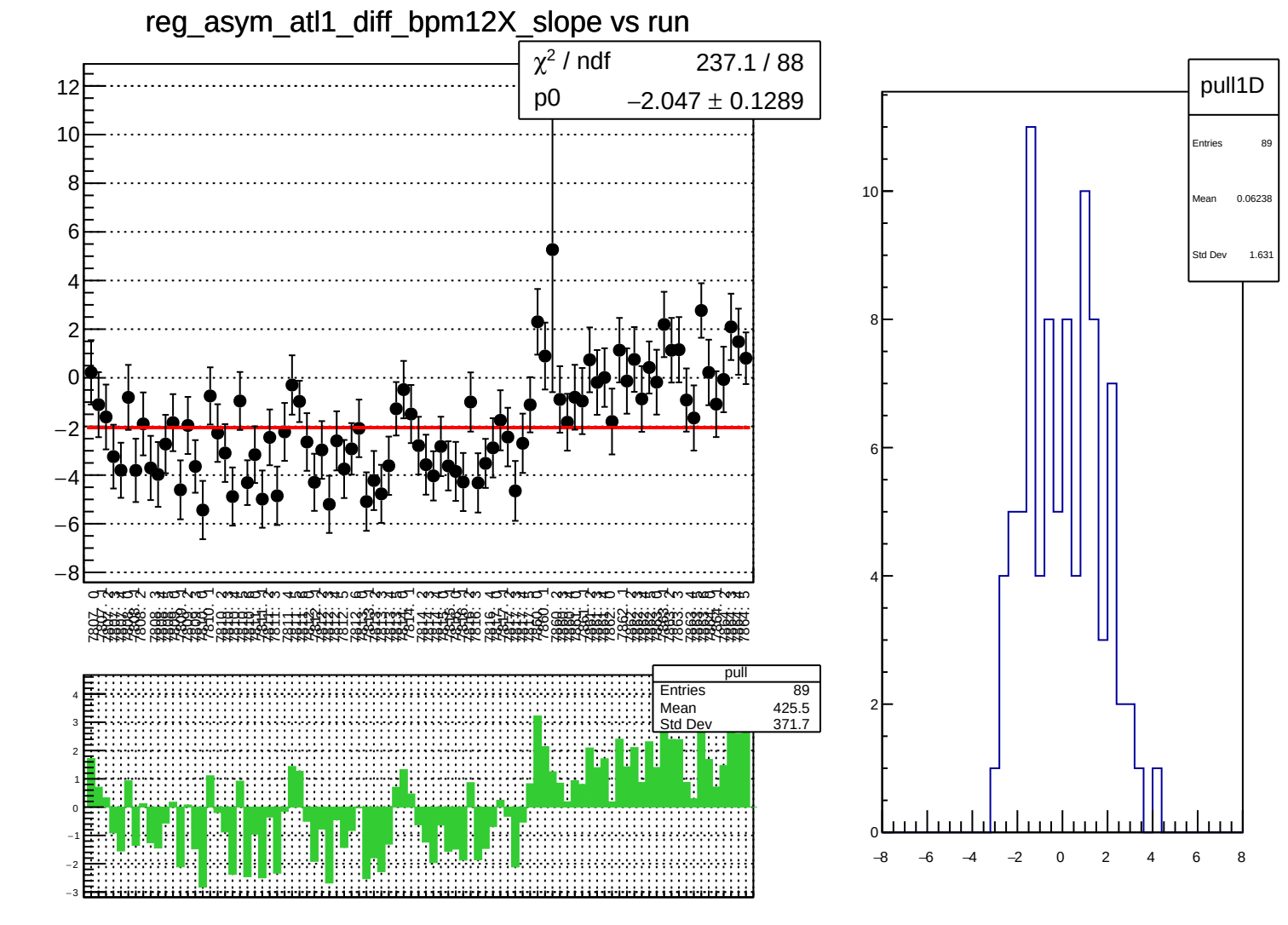

pull1D
Entries 89
Mean −0.01228
Std Dev 0.9466

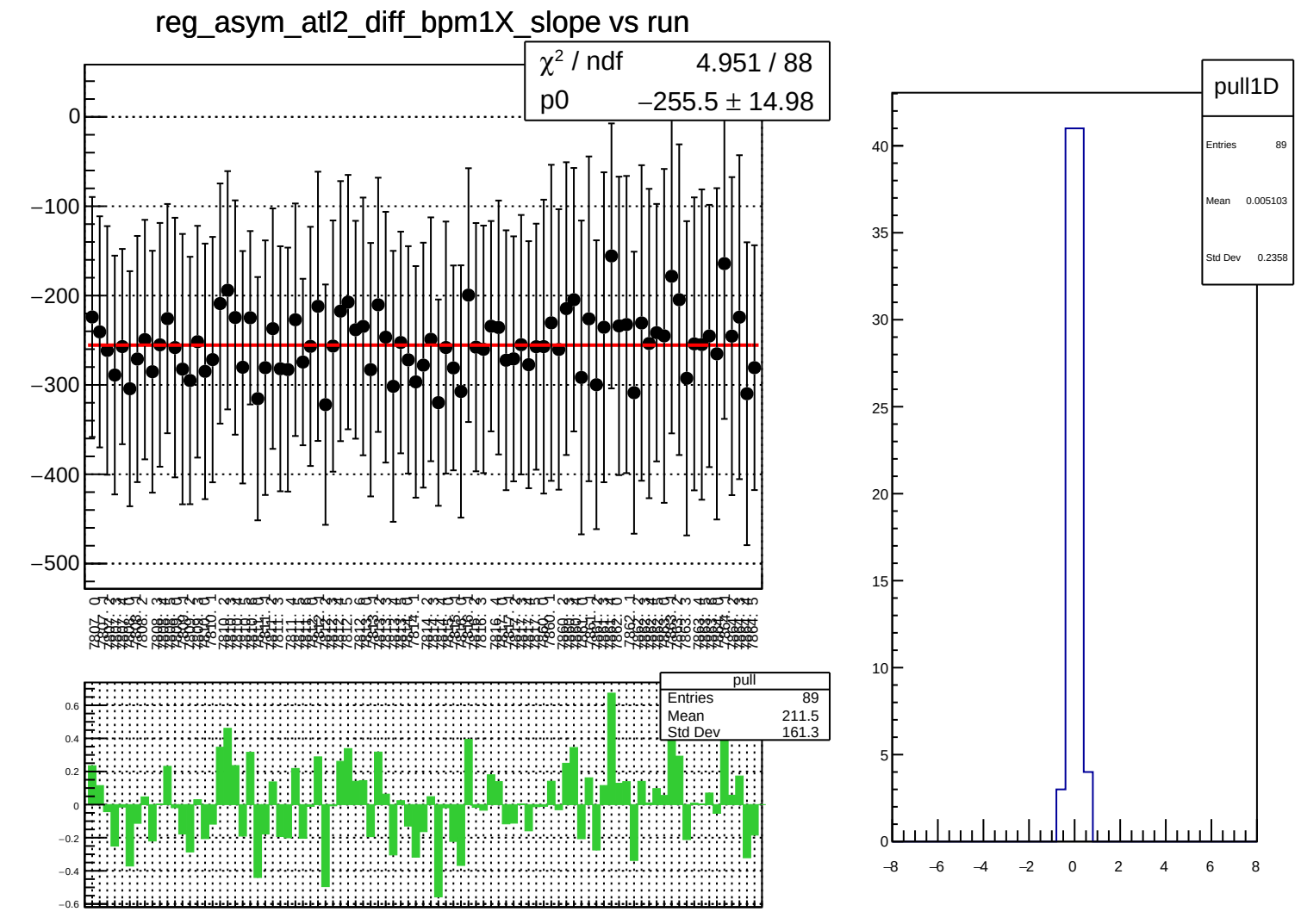

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 75.49 / 88
p0 7.532 ± 3.891
100
0
−100
−200
−300
pull
Entries 89
Mean −324.7
Std Dev 366.3
1
0
−1
−2
−3

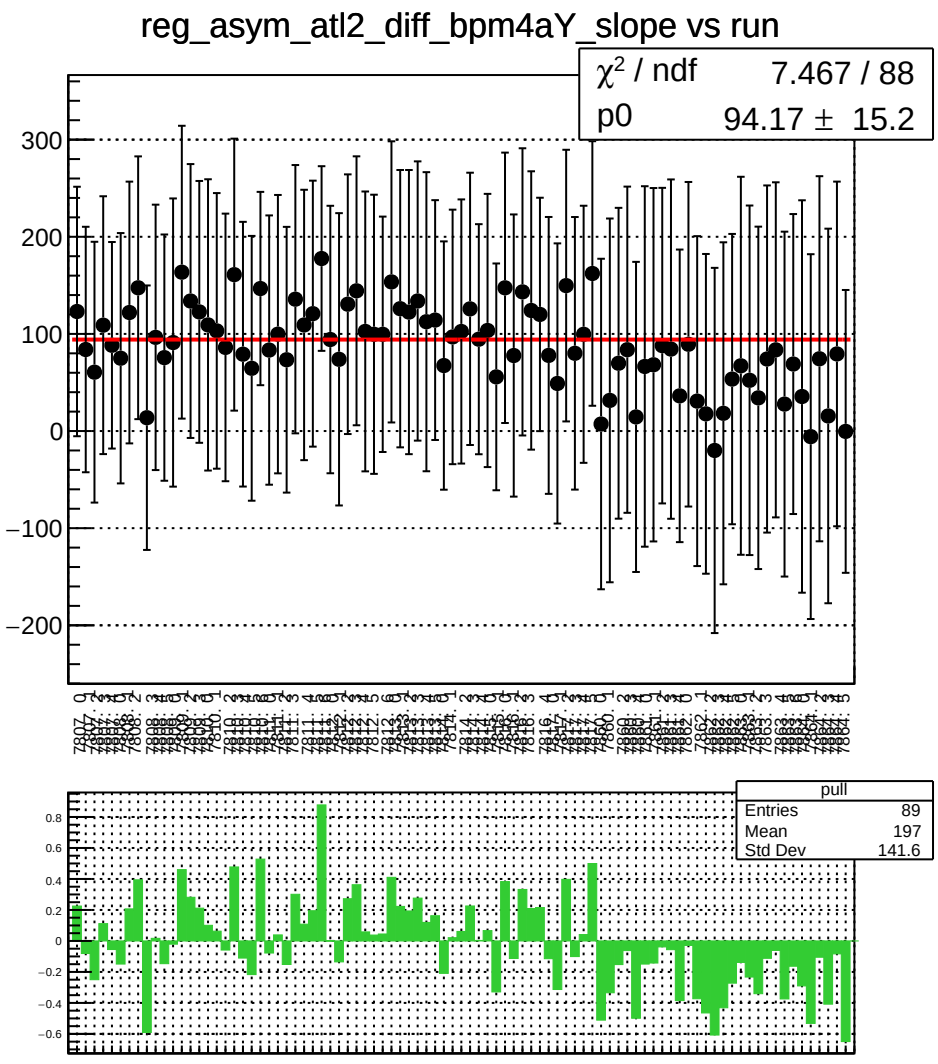

pull1D
Entries 89
Mean −0.008343
Std Dev 0.9209
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

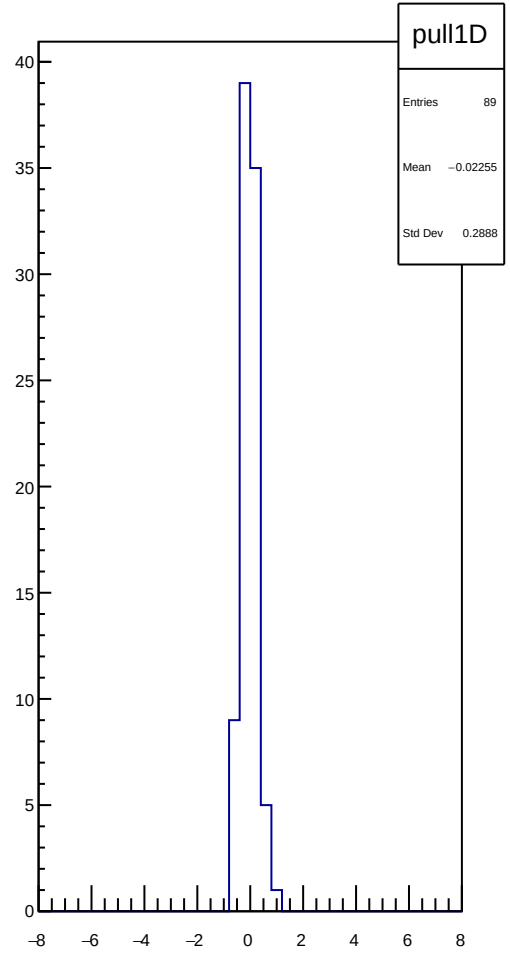

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 78.86 / 88
p0 27.44 ± 3.45
150
100
50
0
−50
−100
pull
Entries 89
Mean 197
Std Dev 129.6
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.006243
Std Dev 0.9413
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

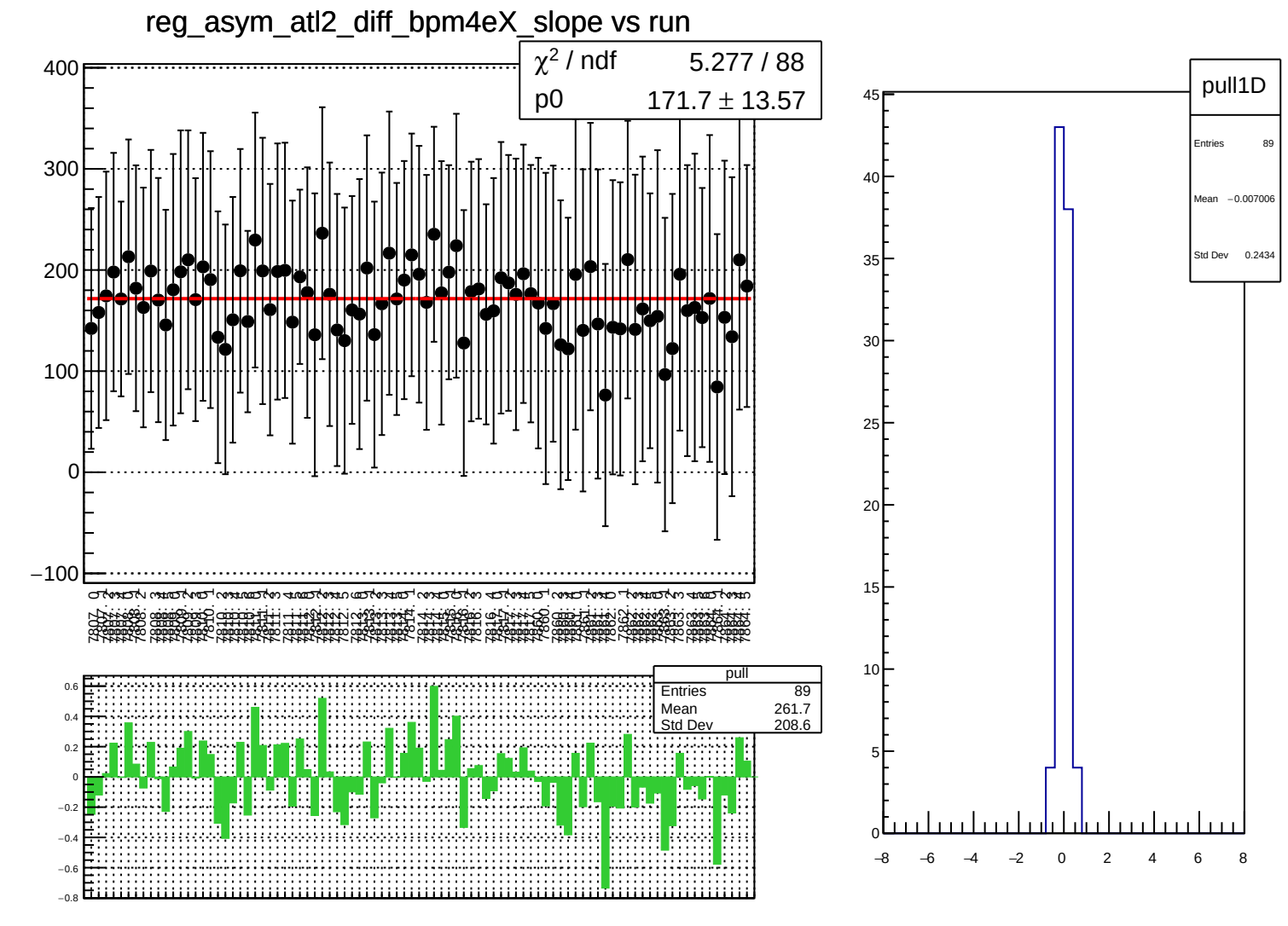

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 76.02 / 88
p0 −13.26 ± 4.436
300
200
100
0
−100
pull
Entries 89
Mean 71.93
Std Dev 66.88
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.009475
Std Dev 0.9242
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

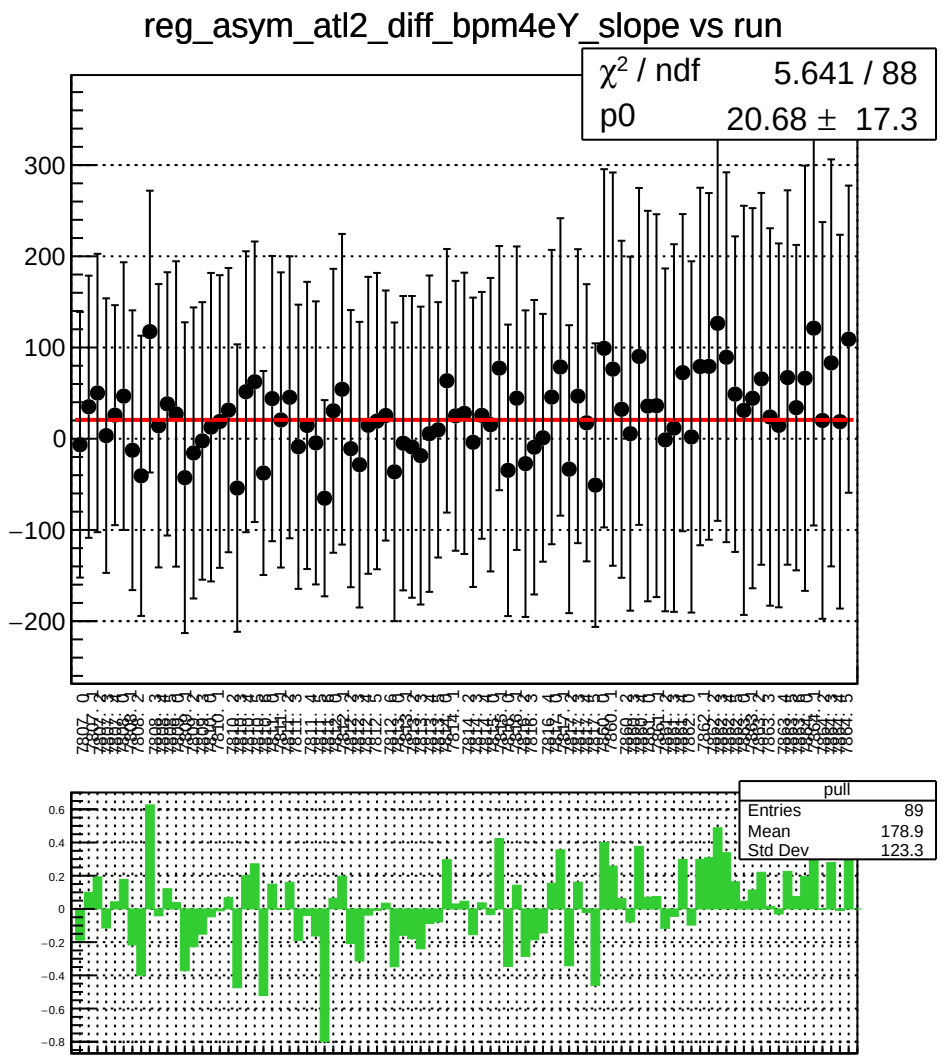

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 237.1 / 88
p0 −2.047 ± 0.1289
pull
Entries 89
Mean 425.5
Std Dev 371.7
pull1D
Entries 89
Mean 0.06238
Std Dev 1.631

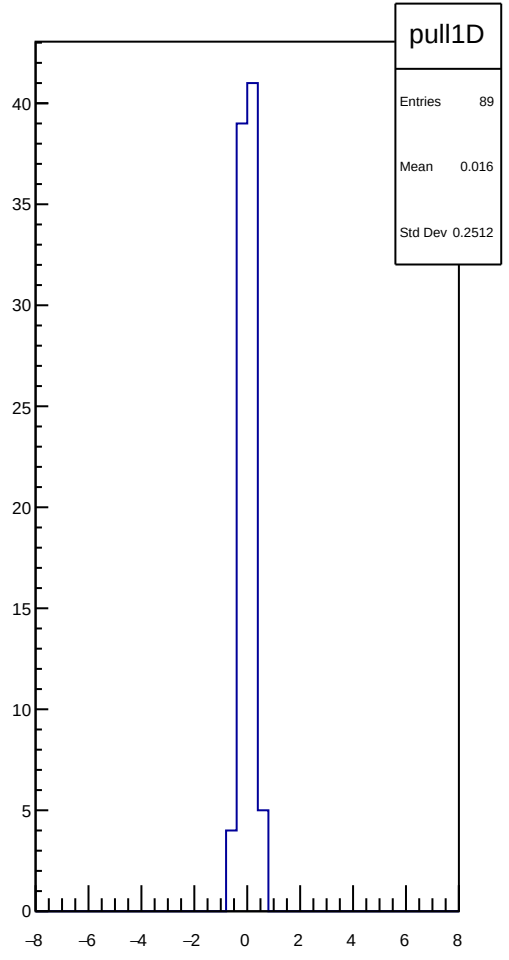

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 4.951 / 88
p0 −255.5 ± 14.98
pull
Entries 89
Mean 211.5
Std Dev 161.3
pull1D
Entries 89
Mean 0.005103
Std Dev 0.2358

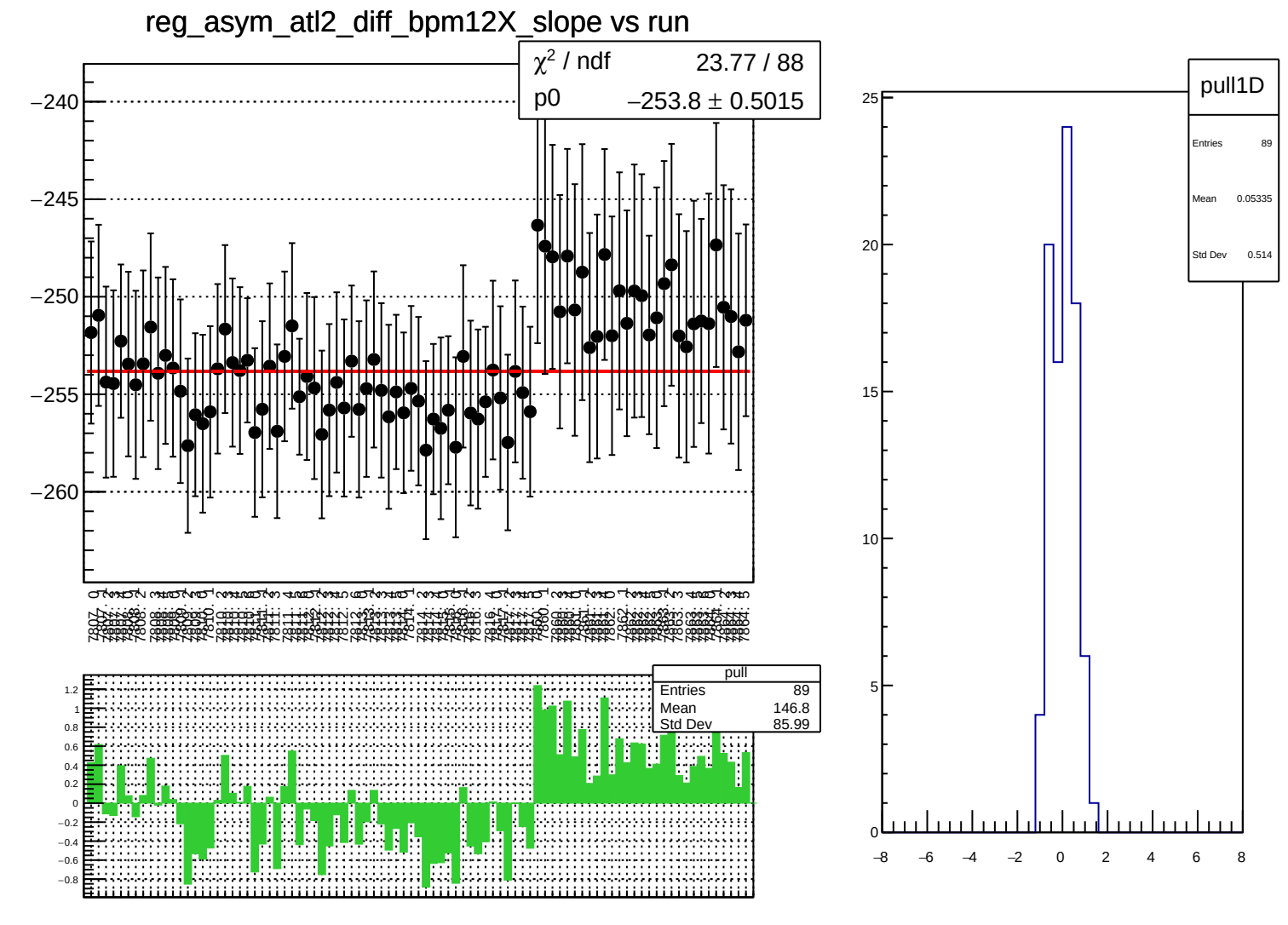

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 7.467 / 88
p0 94.17 ± 15.2
300
200
100
0
−100
−200
pull
Entries 89
Mean 197
Std Dev 141.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

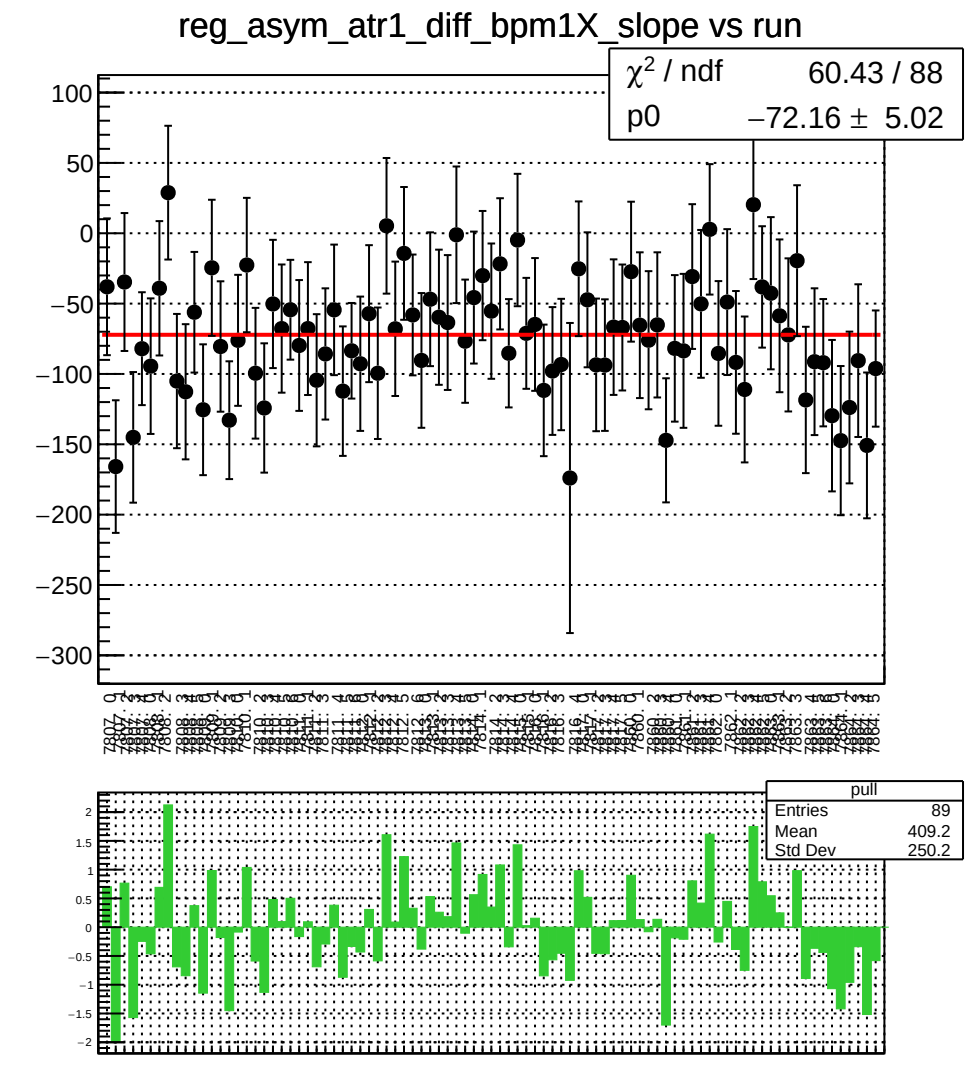

pull1D
Entries 89
Mean −0.02255
Std Dev 0.2888
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

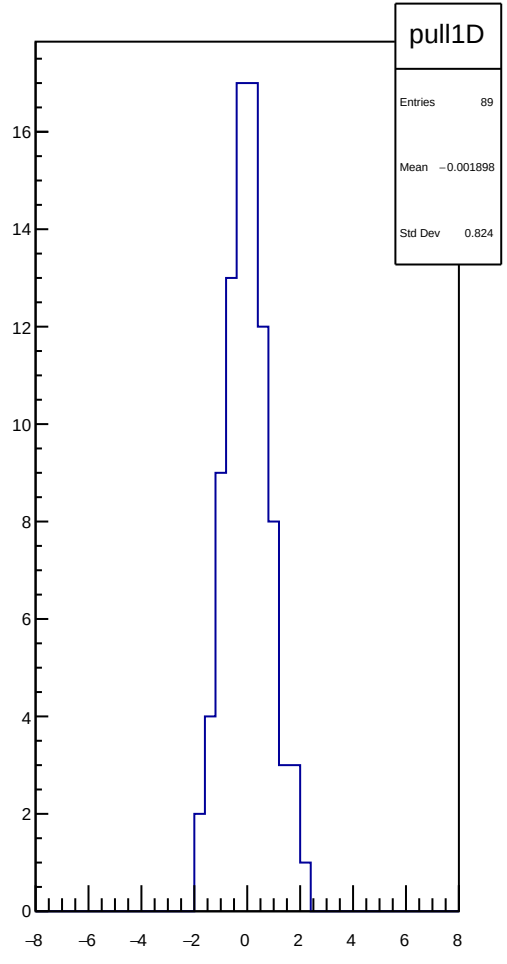

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 5.277 / 88
p0 171.7 ± 13.57
pull
Entries 89
Mean 261.7
Std Dev 208.6
pull1D
Entries 89
Mean −0.007006
Std Dev 0.2434

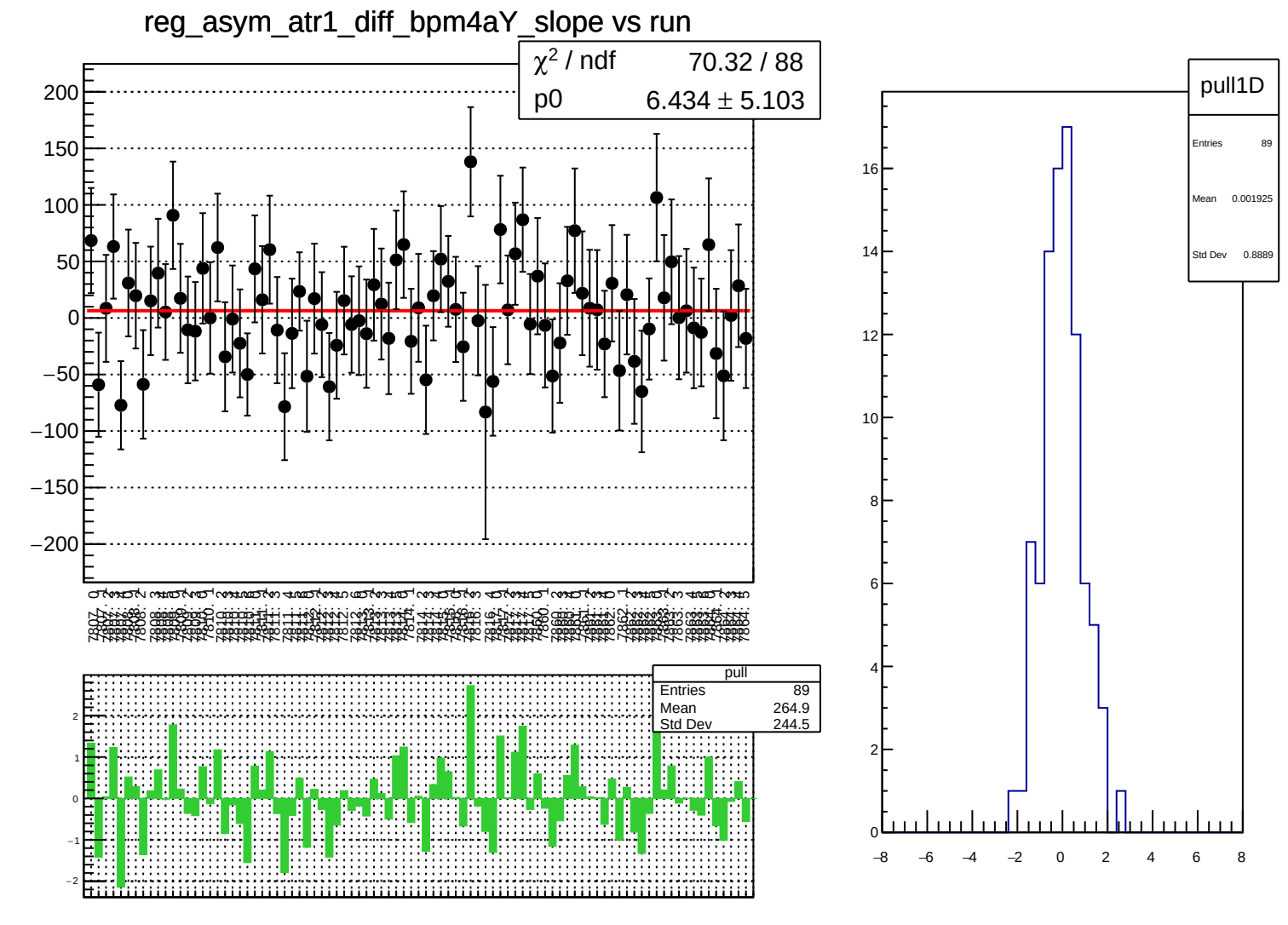

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.641 / 88
p0 20.68 ± 17.3
pull
Entries 89
Mean 178.9
Std Dev 123.3

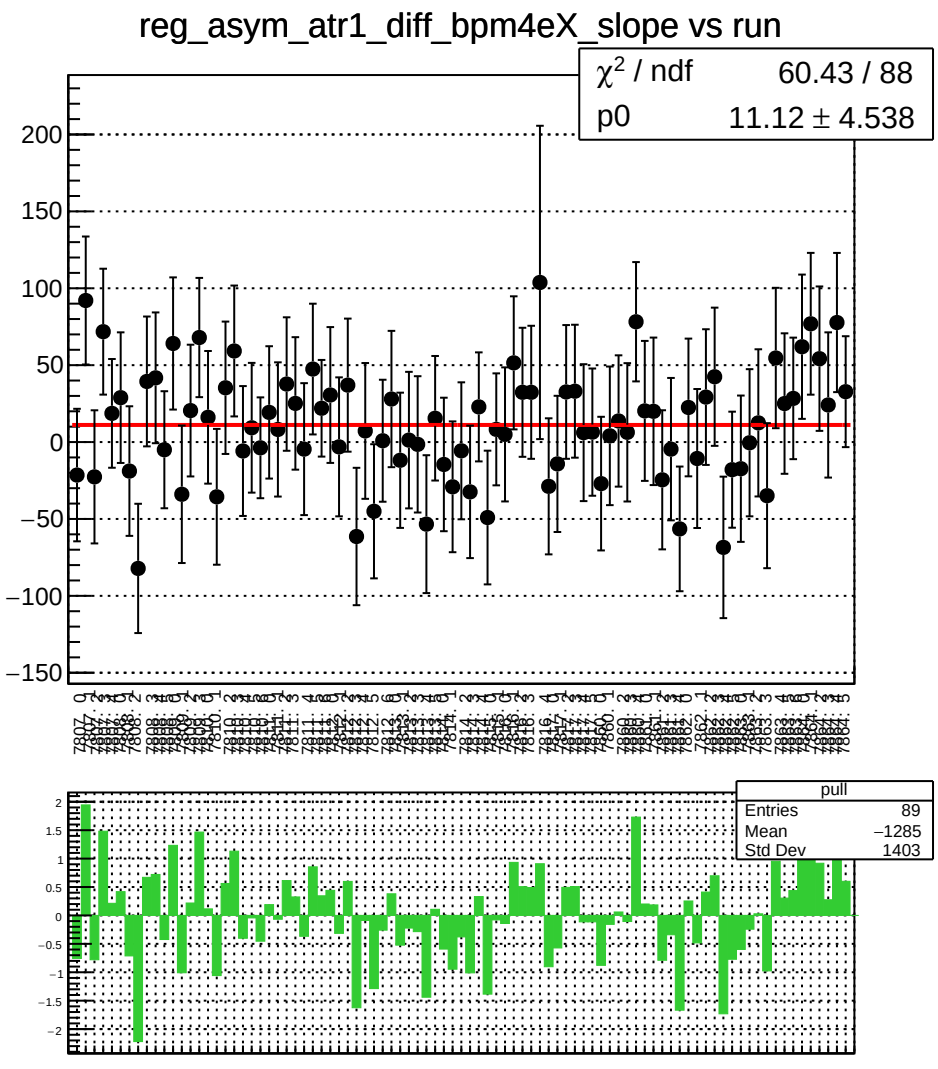

pull1D
Entries 89
Mean 0.016
Std Dev 0.2512

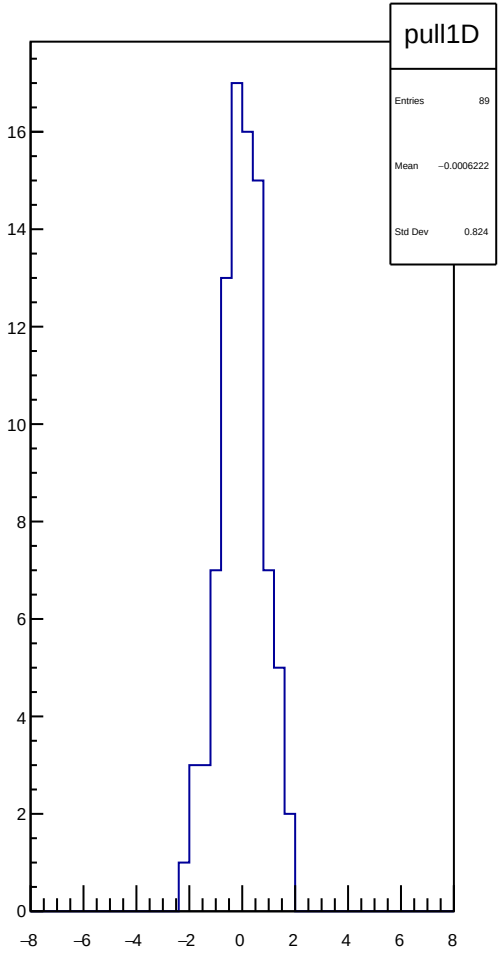

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 23.77 / 88
p0 −253.8 ± 0.5015
−240
−245
−250
−255
−260
pull
Entries 89
Mean 146.8
Std Dev 85.99
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 89
Mean 0.05335
Std Dev 0.514
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

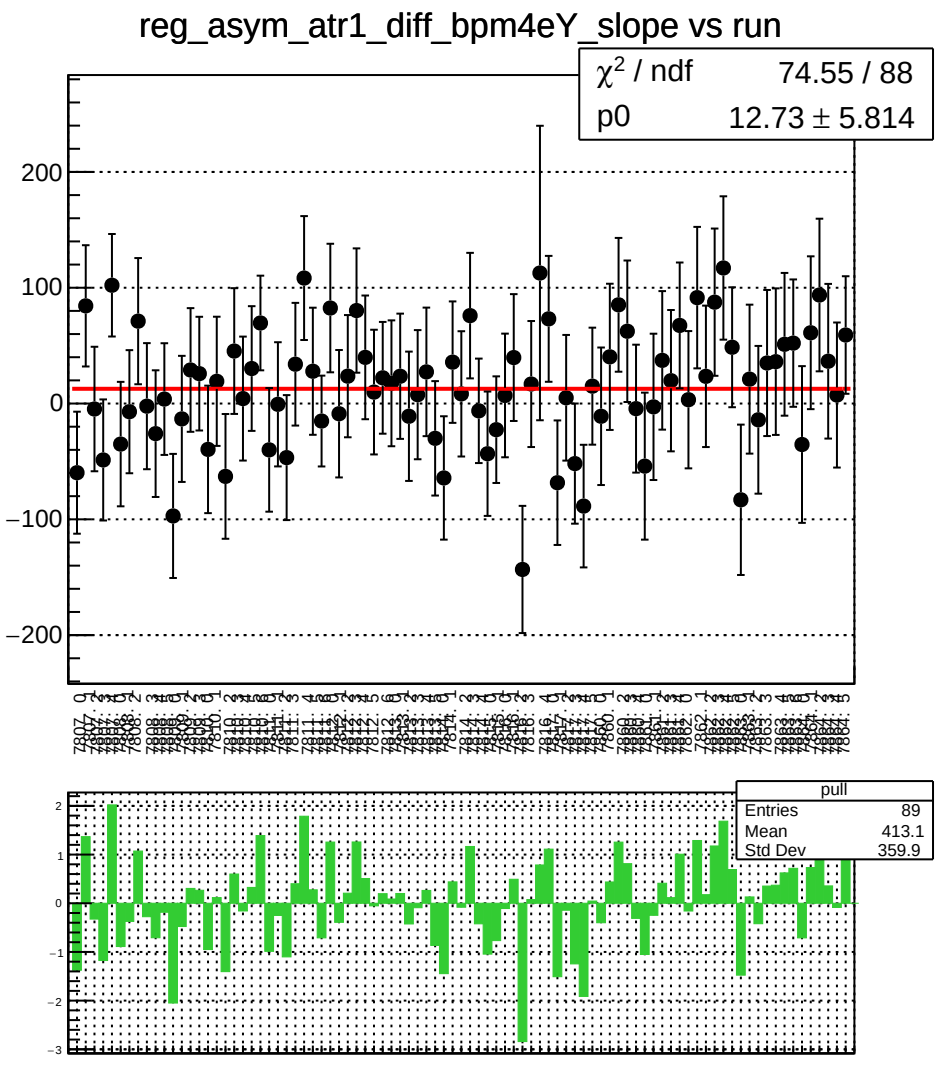

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 60.43 / 88
p0 −72.16 ± 5.02
pull
Entries 89
Mean 409.2
Std Dev 250.2

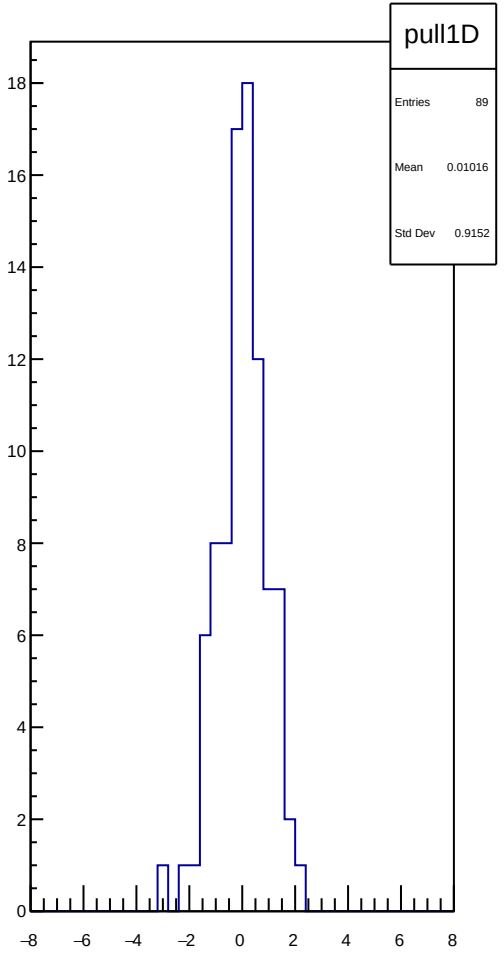

pull1D
Entries 89
Mean −0.001898
Std Dev 0.824

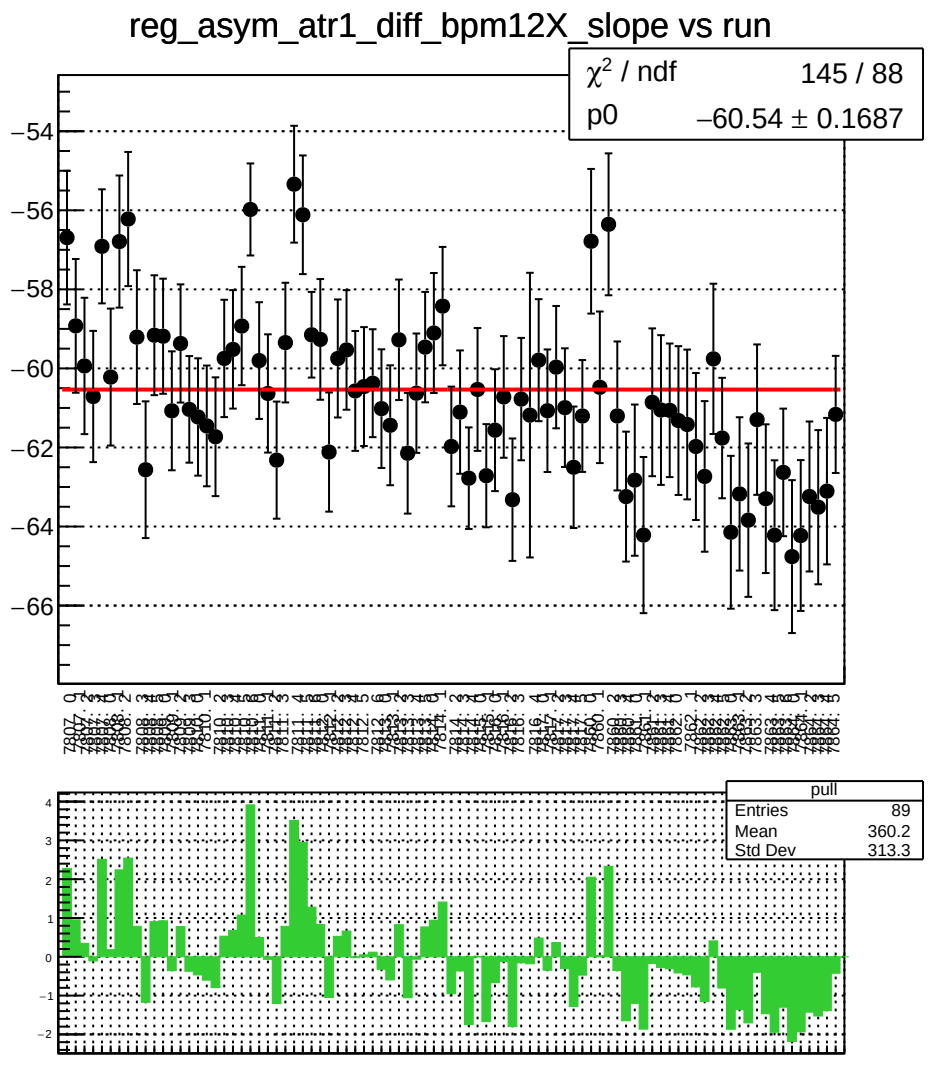

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 70.32 / 88
p0 6.434 ± 5.103
pull
Entries 89
Mean 264.9
Std Dev 244.5
pull1D
Entries 89
Mean 0.001925
Std Dev 0.8889

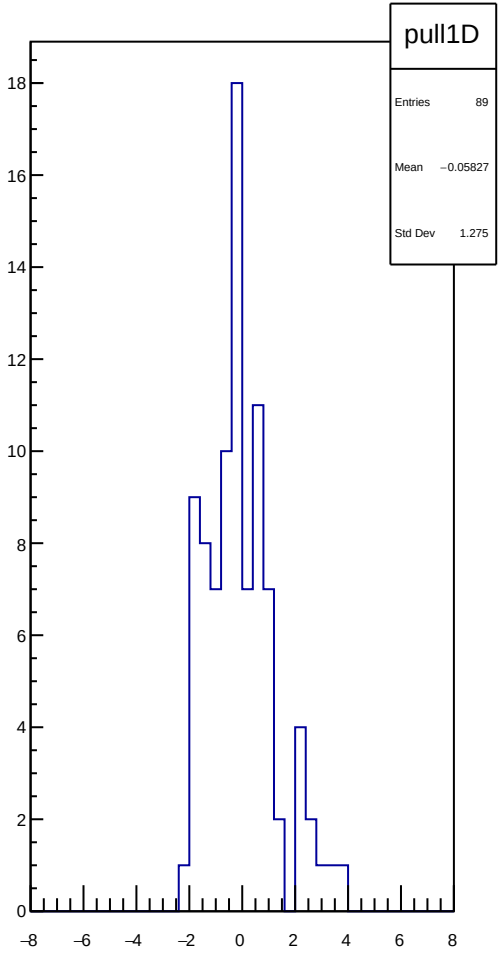

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 60.43 / 88
p0 11.12 ± 4.538
pull
Entries 89
Mean −1285
Std Dev 1403

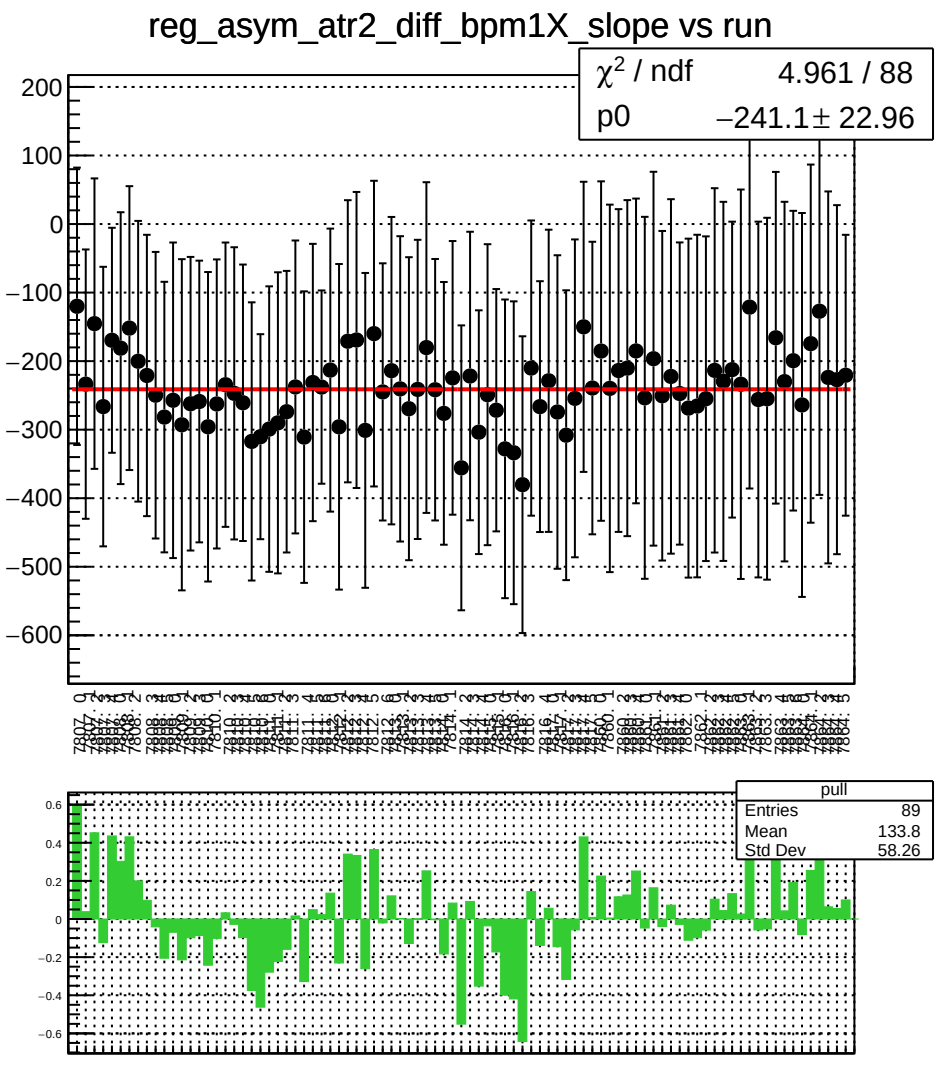

pull1D
Entries 89
Mean −0.0006222
Std Dev 0.824

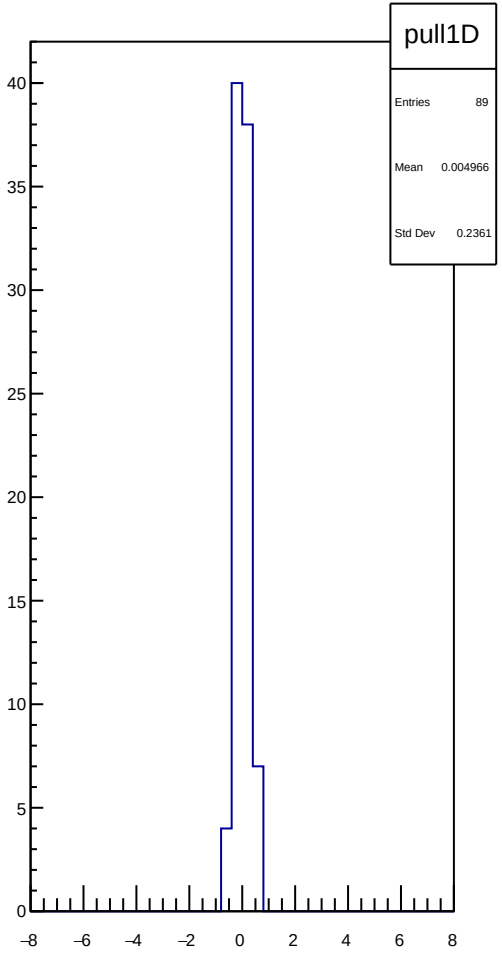

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 74.55 / 88
p0 12.73 ± 5.814
200
100
0
−100
−200
pull
Entries 89
Mean 413.1
Std Dev 359.9
2
1
0
−1
−2
−3

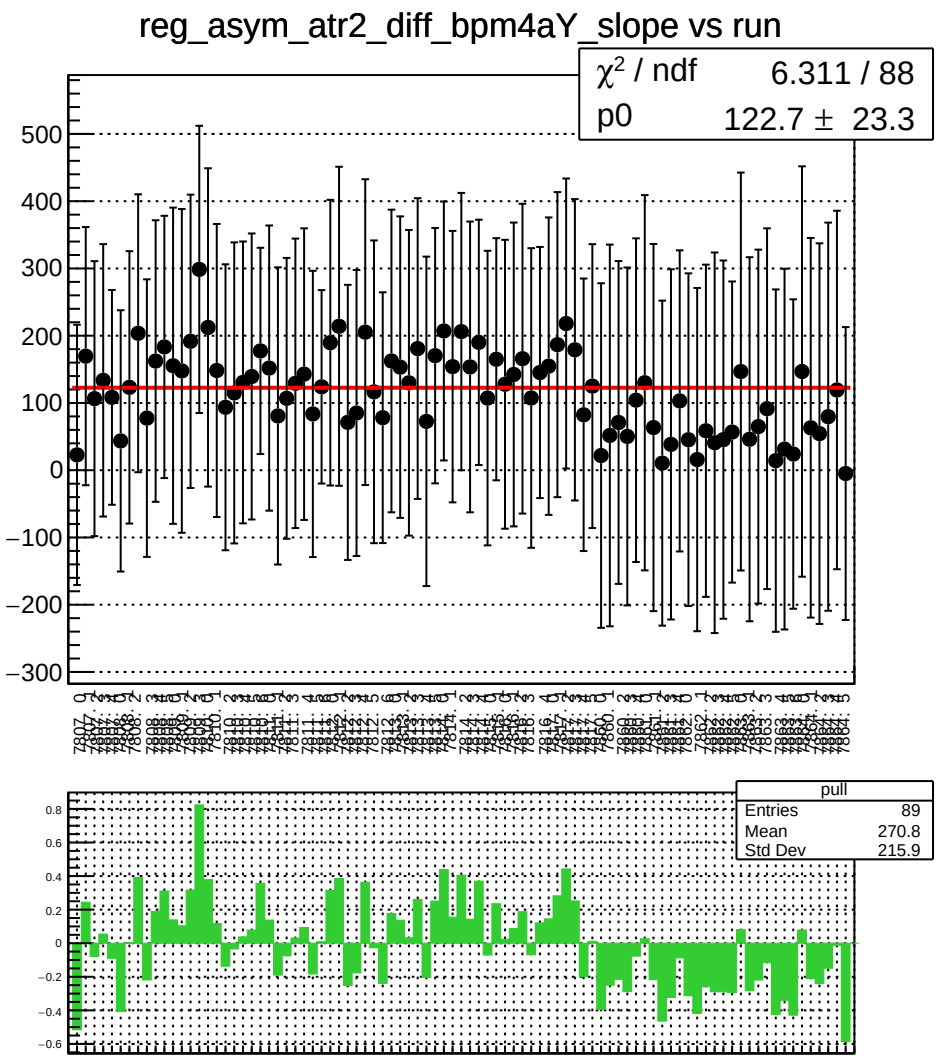

pull1D
Entries 89
Mean 0.01016
Std Dev 0.9152
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

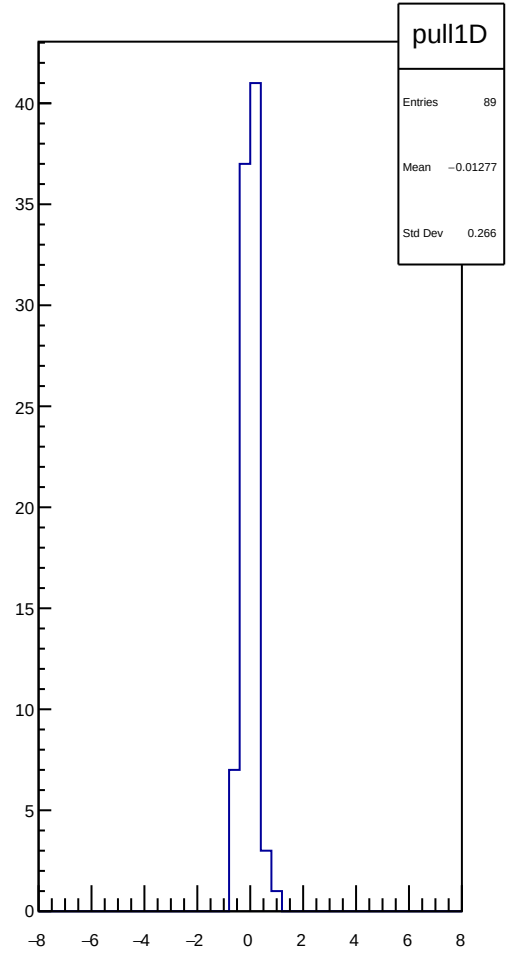

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 145 / 88
p0 −60.54 ± 0.1687
pull
Entries 89
Mean 360.2
Std Dev 313.3

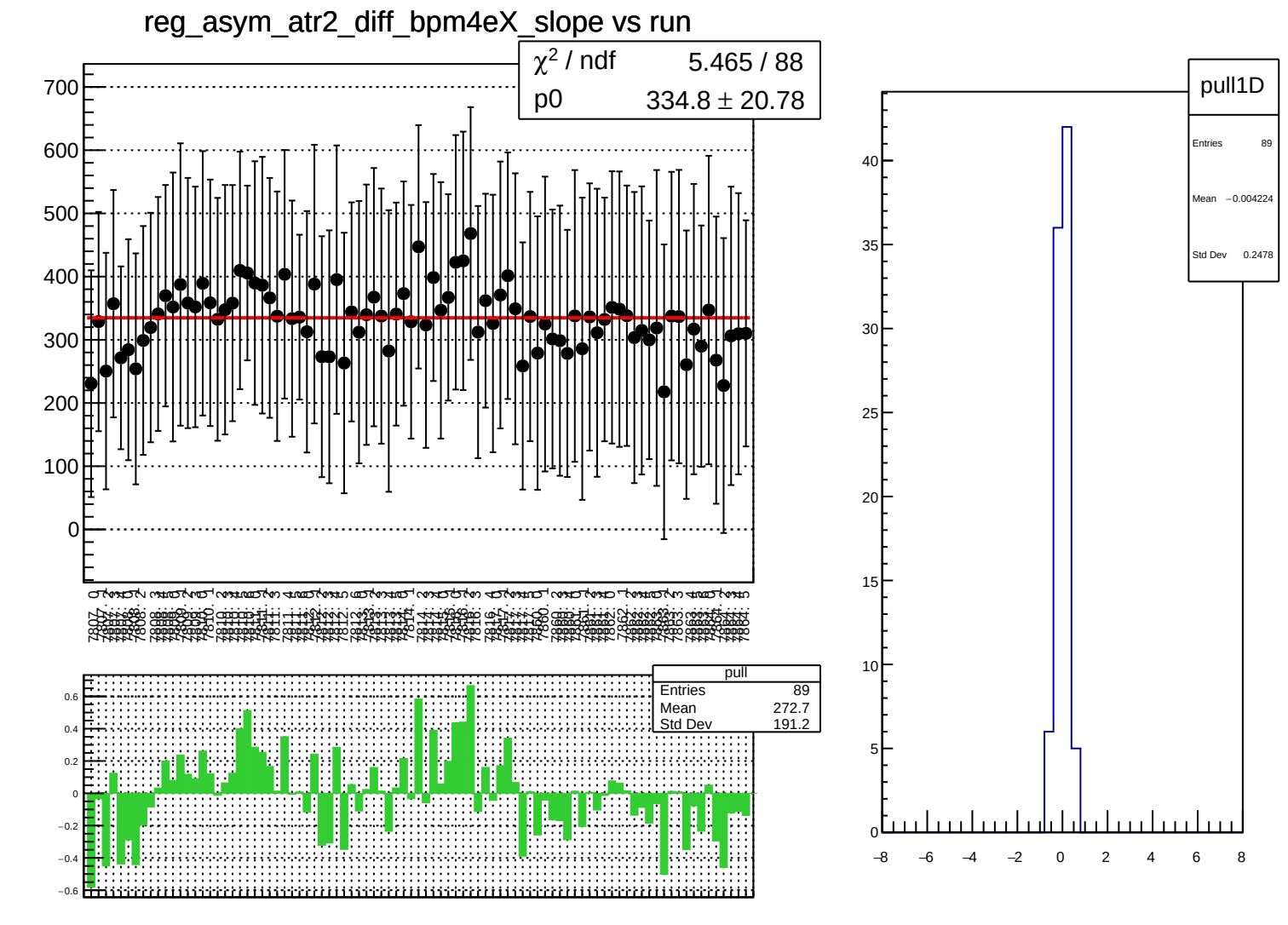

pull1D
Entries 89
Mean −0.05827
Std Dev 1.275

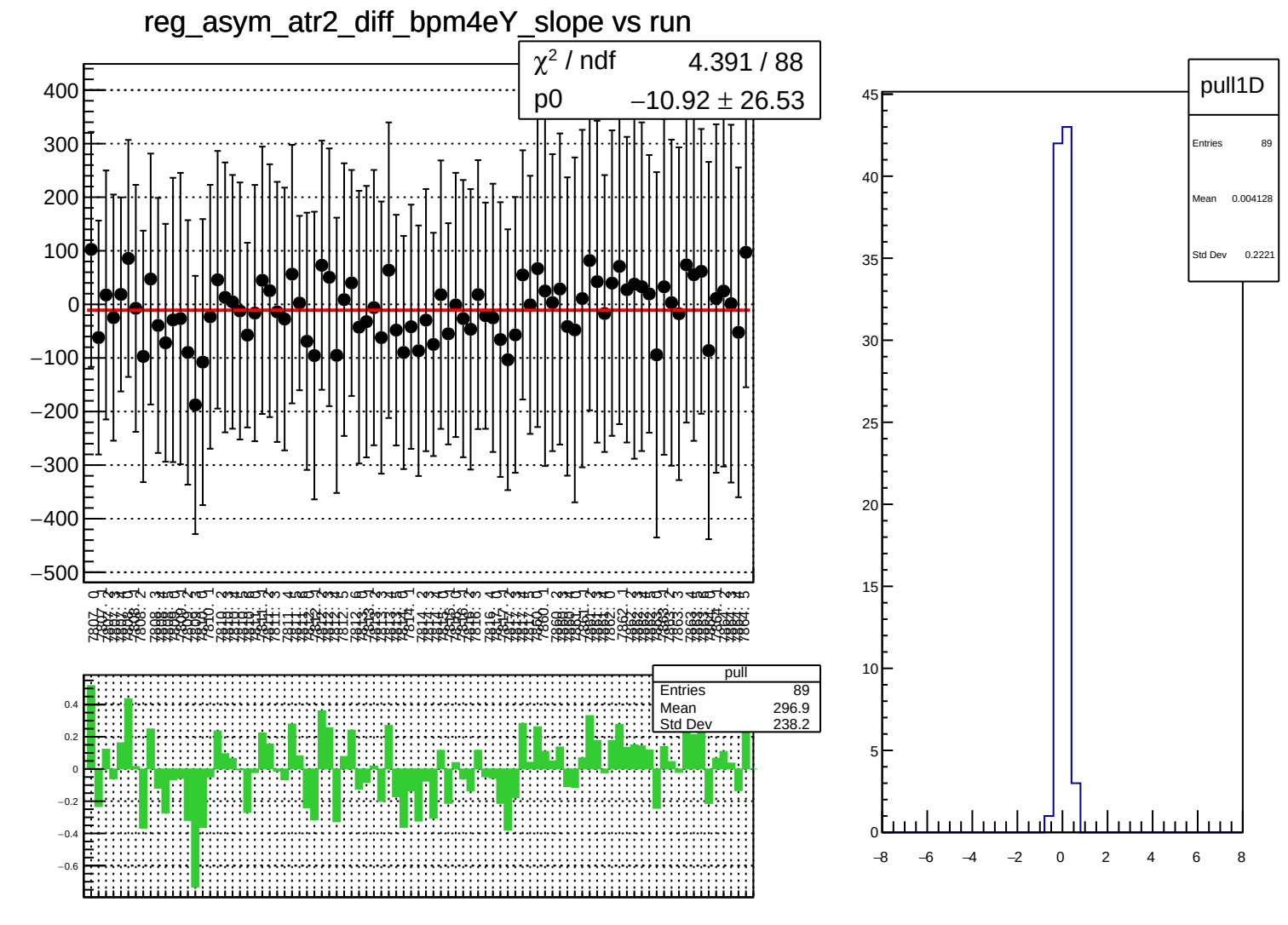

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 4.961 / 88
p0 −241.1± 22.96
pull
Entries 89
Mean 133.8
Std Dev 58.26

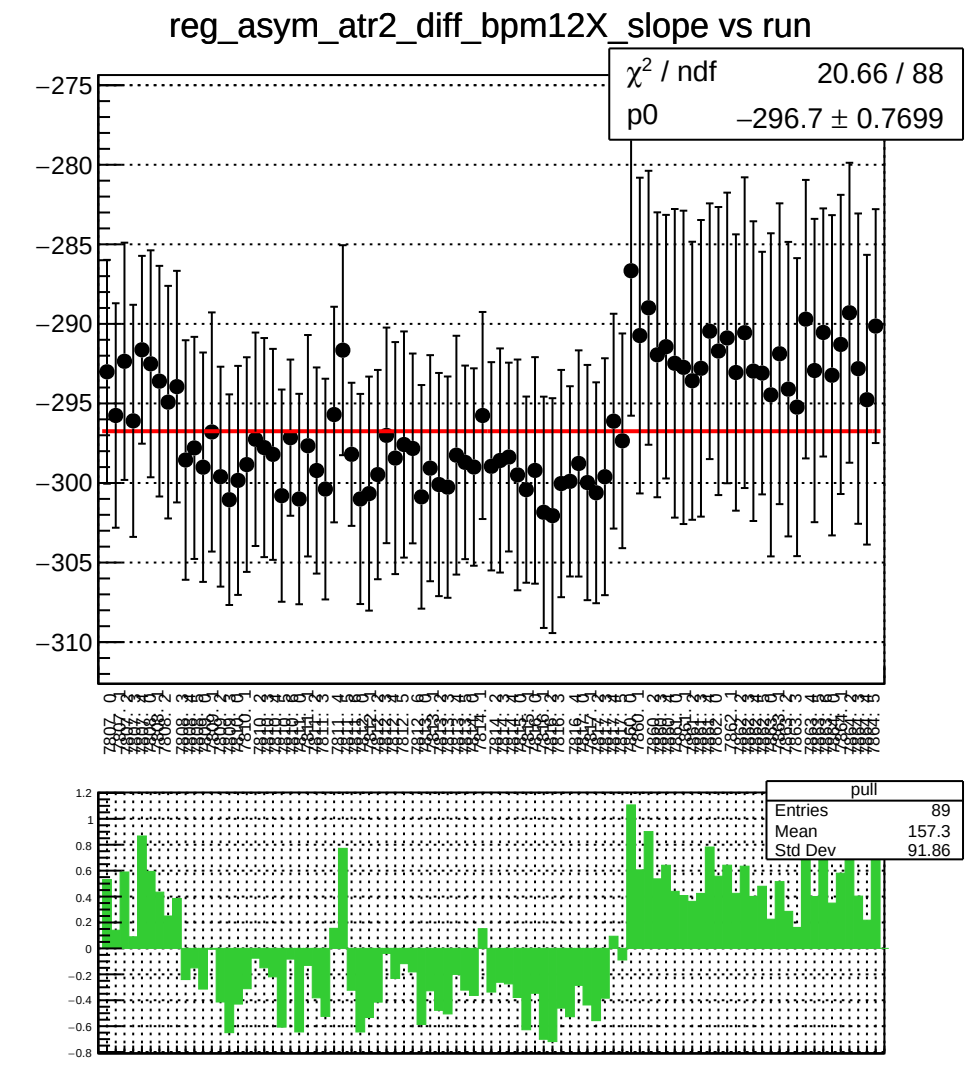

pull1D
Entries 89
Mean 0.004966
Std Dev 0.2361

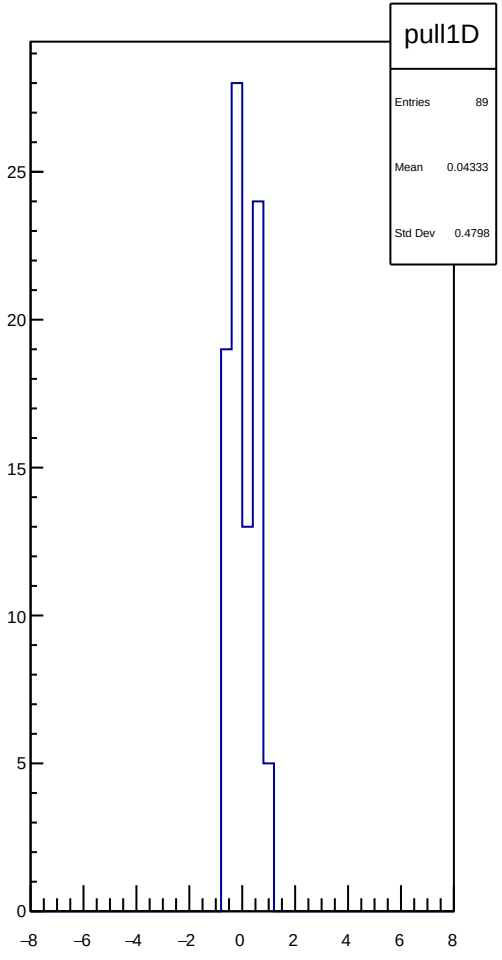

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 6.311 / 88
p0 122.7 ± 23.3
pull
Entries 89
Mean 270.8
Std Dev 215.9

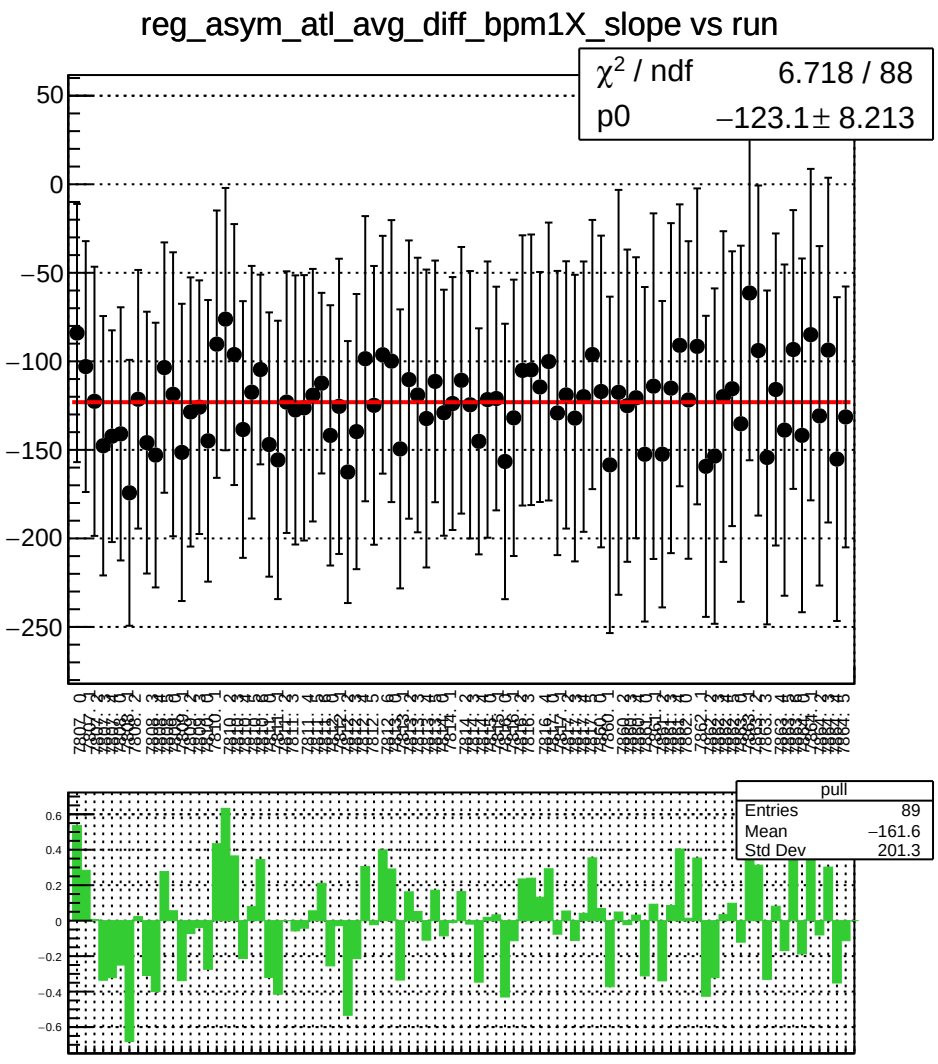

pull1D
Entries 89
Mean −0.01277
Std Dev 0.266

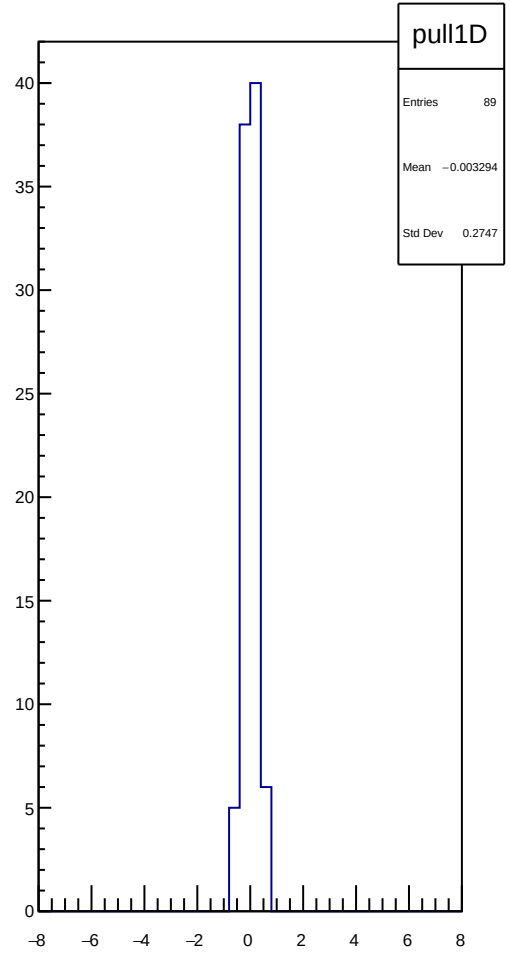

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 5.465 / 88
p0 334.8 ± 20.78
pull
Entries 89
Mean 272.7
Std Dev 191.2
pull1D
Entries 89
Mean −0.004224
Std Dev 0.2478

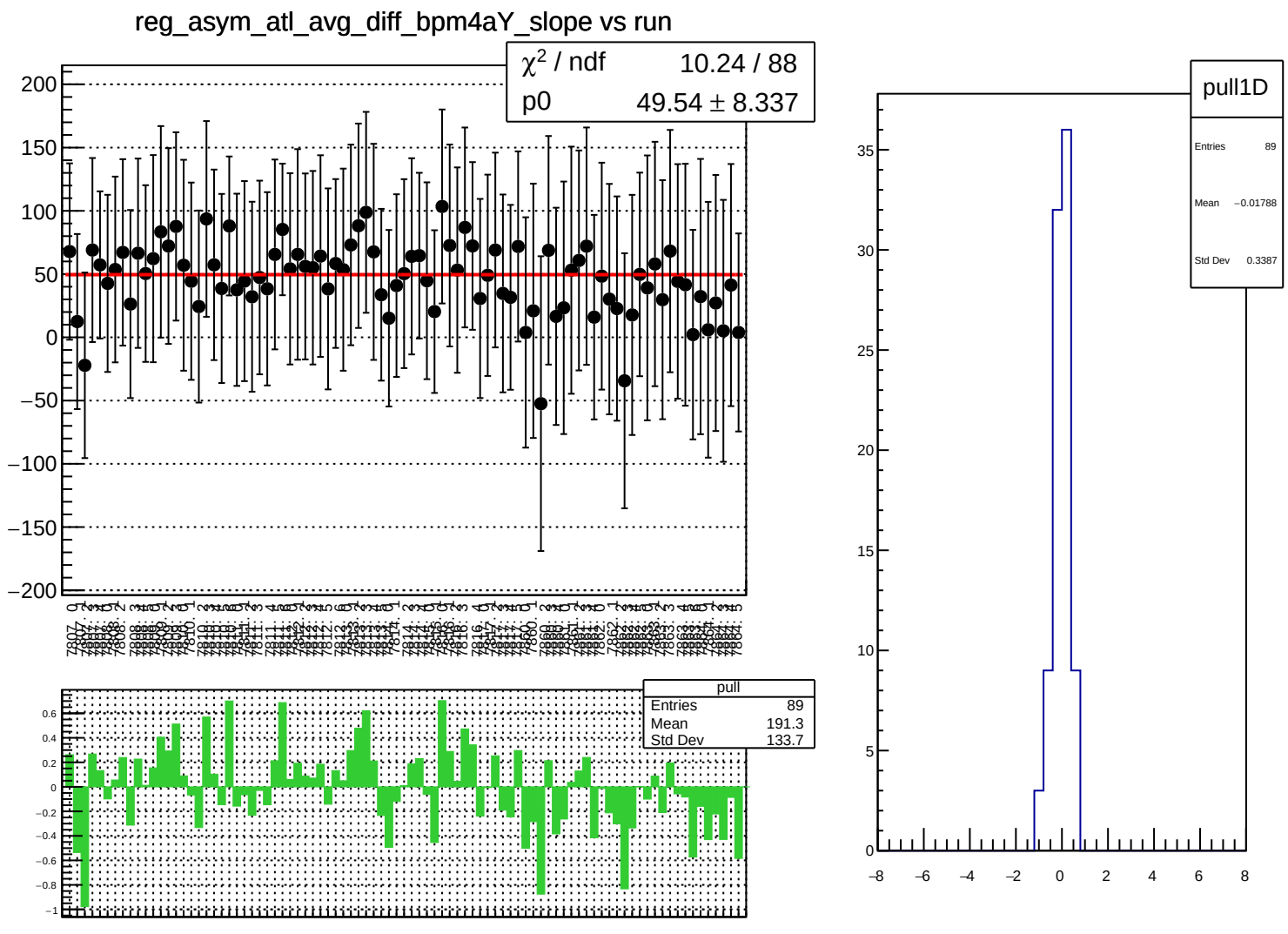

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 4.391 / 88
p0 −10.92 ± 26.53
pull
Entries 89
Mean 296.9
Std Dev 238.2
pull1D
Entries 89
Mean 0.004128
Std Dev 0.2221

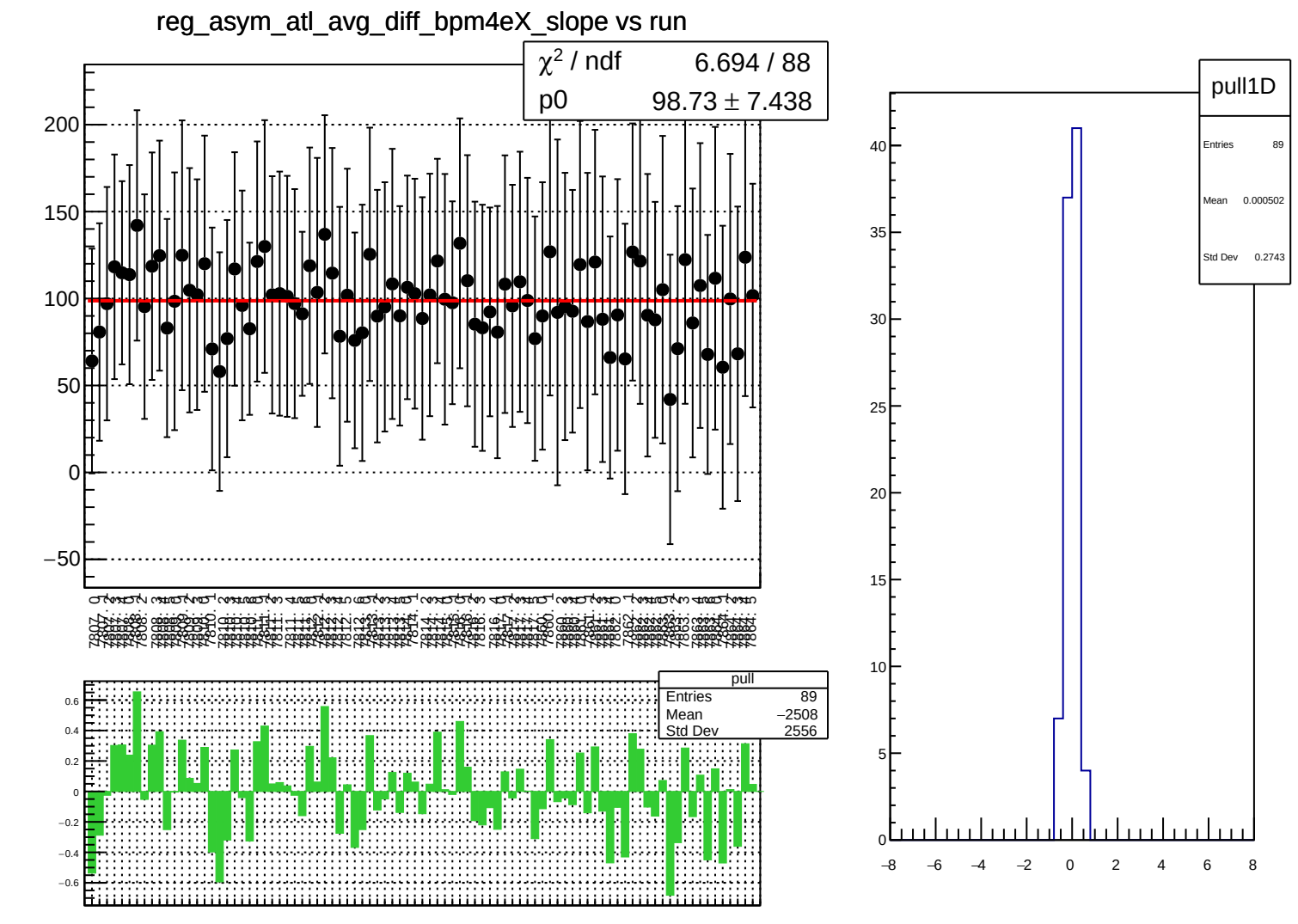

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 20.66 / 88
p0 −296.7 ± 0.7699
pull
Entries 89
Mean 157.3
Std Dev 91.86

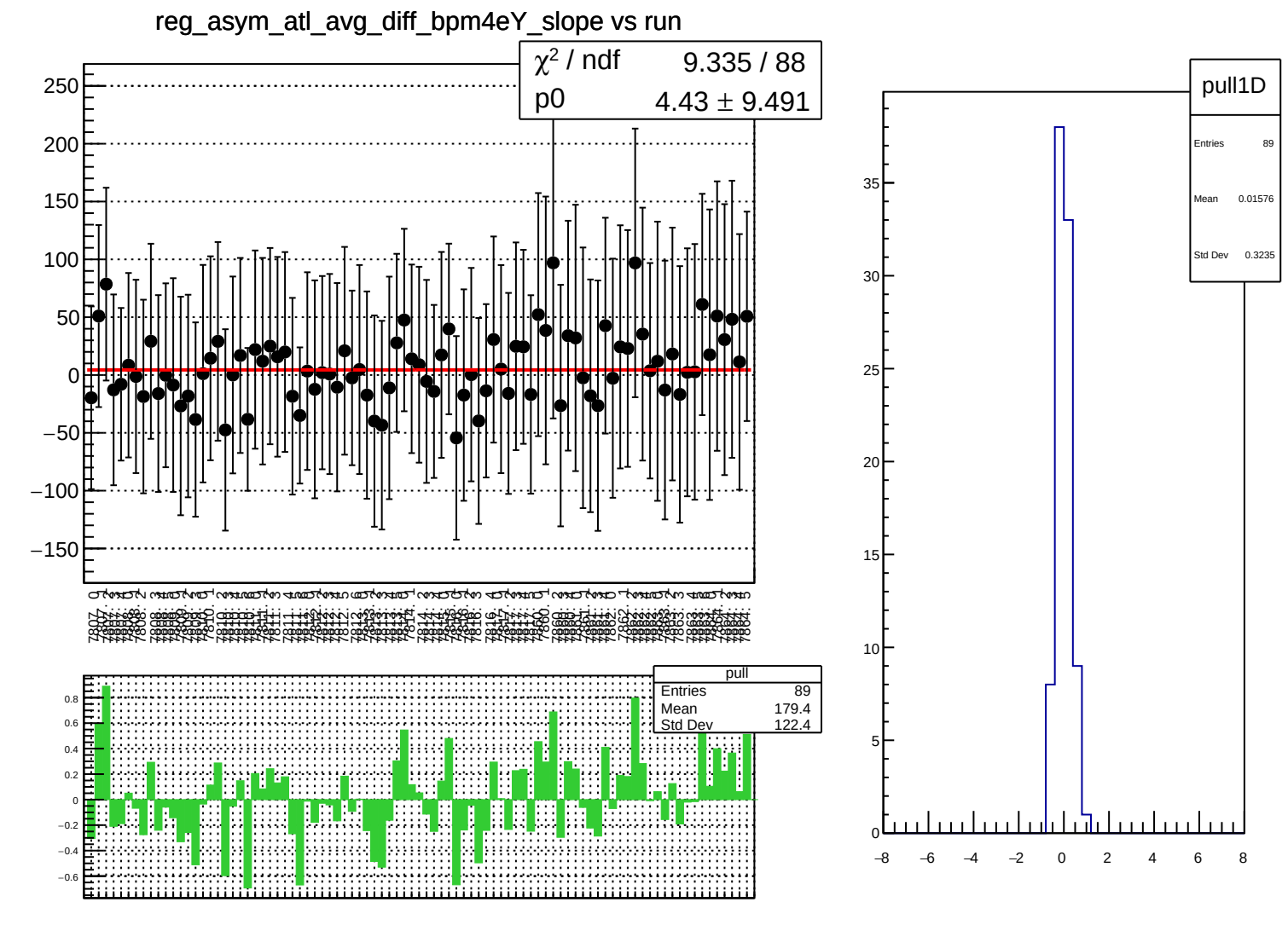

pull1D
Entries 89
Mean 0.04333
Std Dev 0.4798

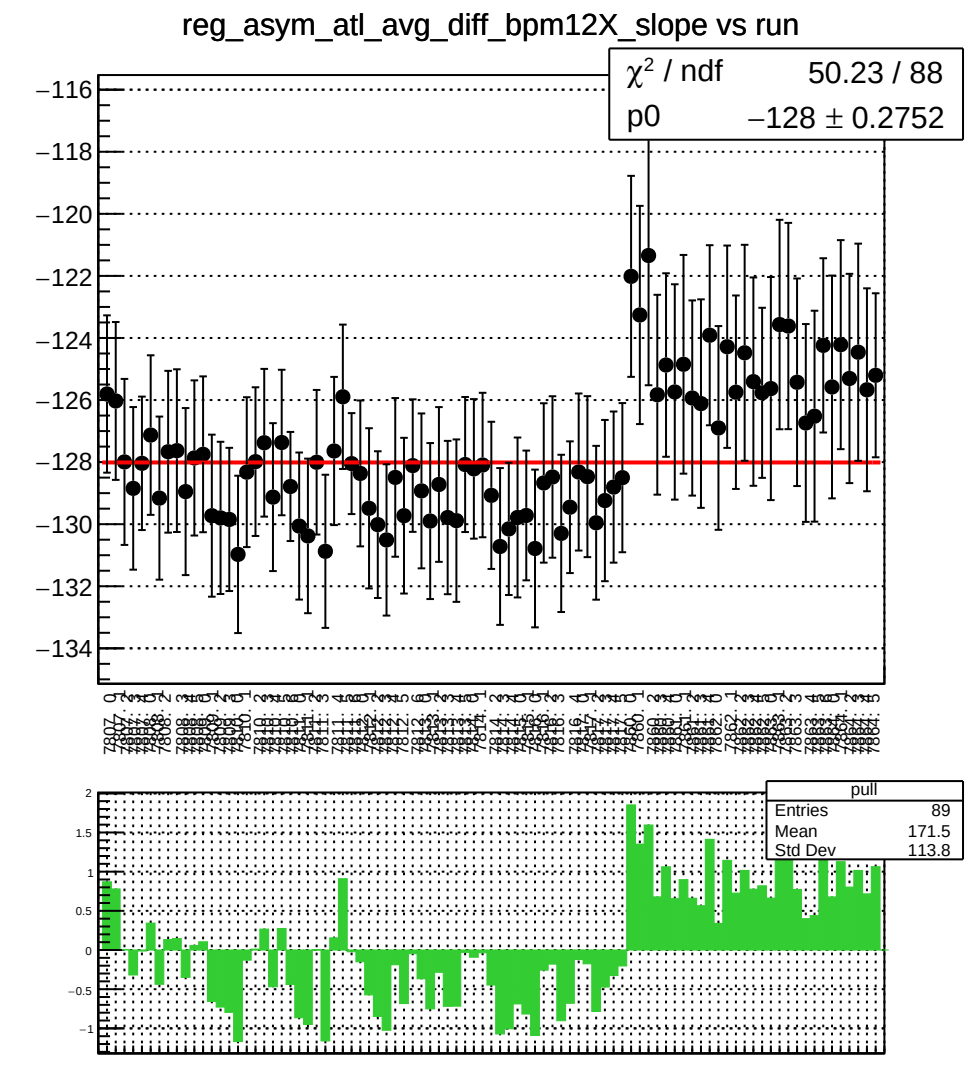

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 6.718 / 88
p0 −123.1 ± 8.213
pull
Entries 89
Mean −161.6
Std Dev 201.3

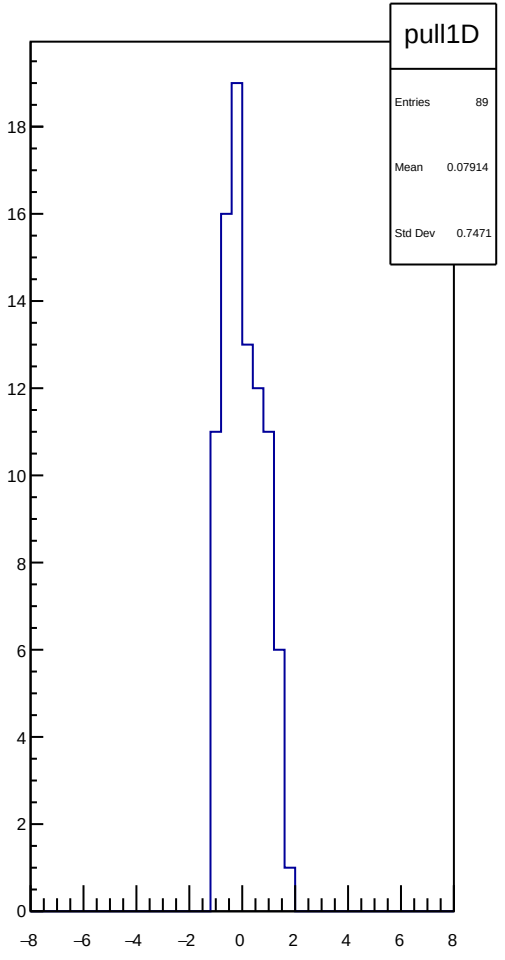

pull1D
Entries 89
Mean −0.003294
Std Dev 0.2747

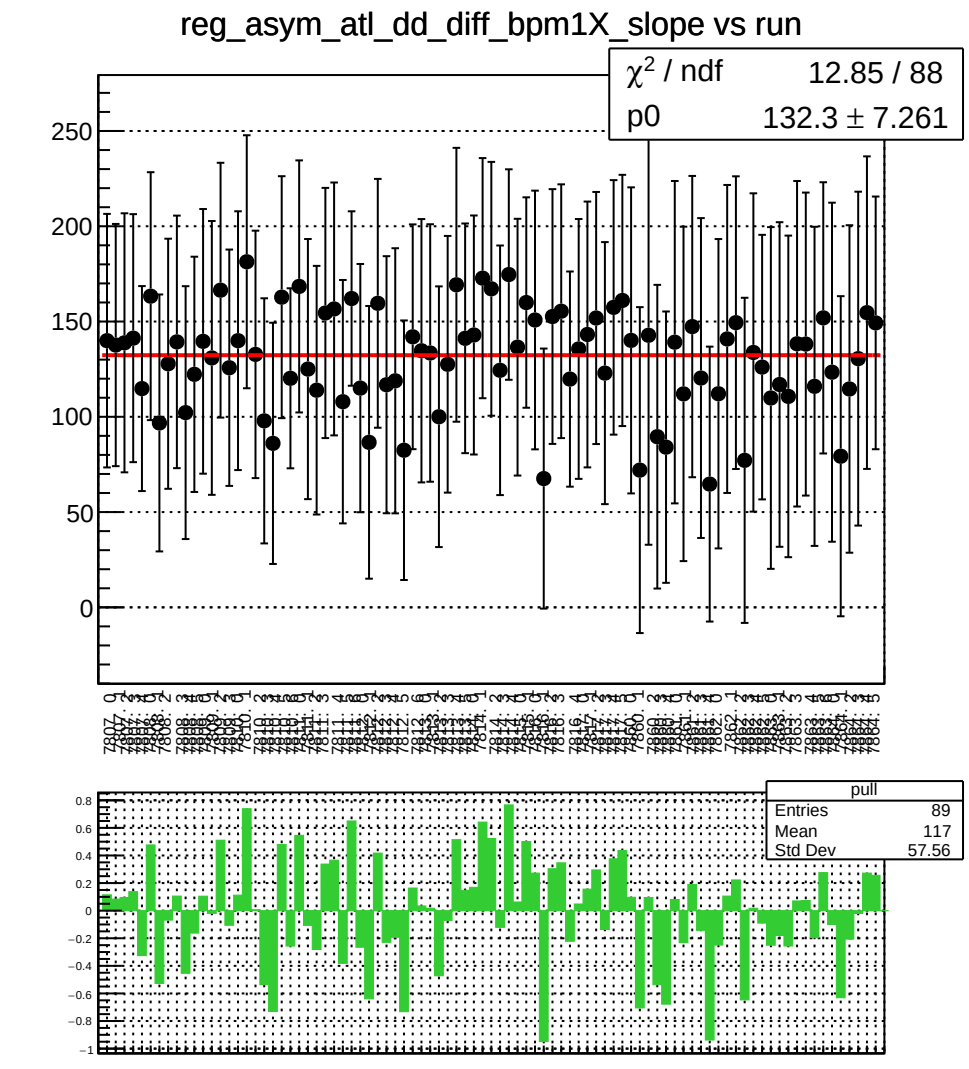

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.24 / 88
p0 49.54 ± 8.337
pull
Entries 89
Mean 191.3
Std Dev 133.7
pull1D
Entries 89
Mean −0.01788
Std Dev 0.3387

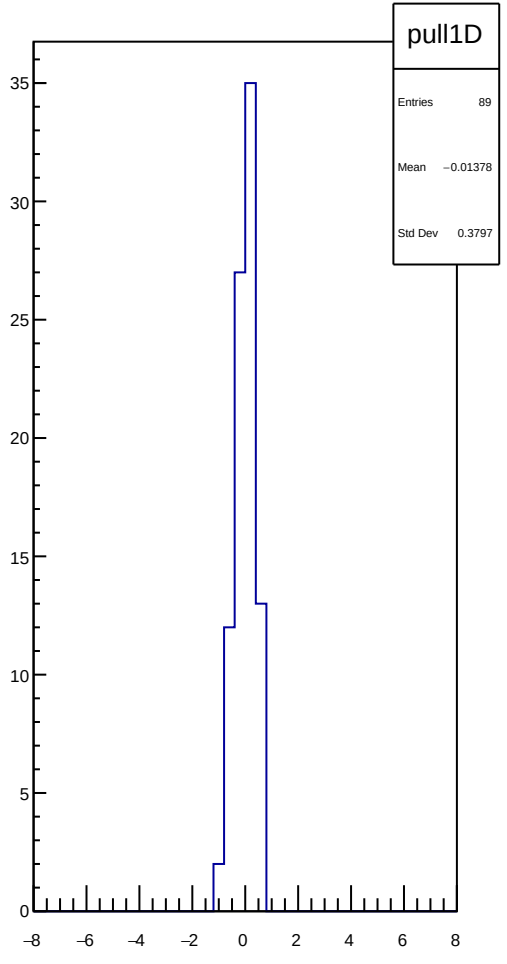

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.694 / 88
p0 98.73 ± 7.438
200
150
100
50
0
−50
pull
Entries 89
Mean −2508
Std Dev 2556
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean 0.000502
Std Dev 0.2743
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

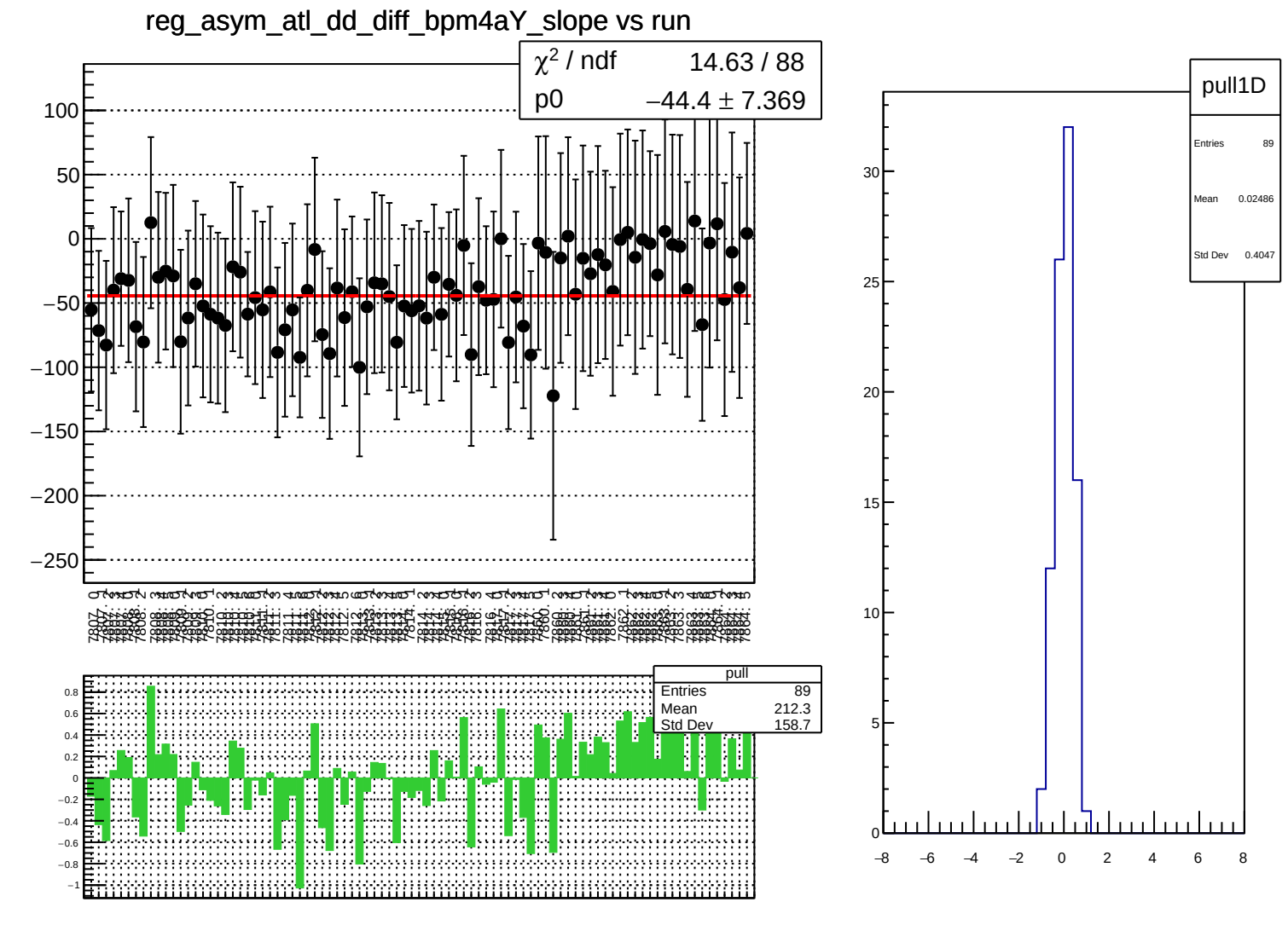

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.335 / 88
p0 4.43 ± 9.491
pull
Entries 89
Mean 179.4
Std Dev 122.4
pull1D
Entries 89
Mean 0.01576
Std Dev 0.3235

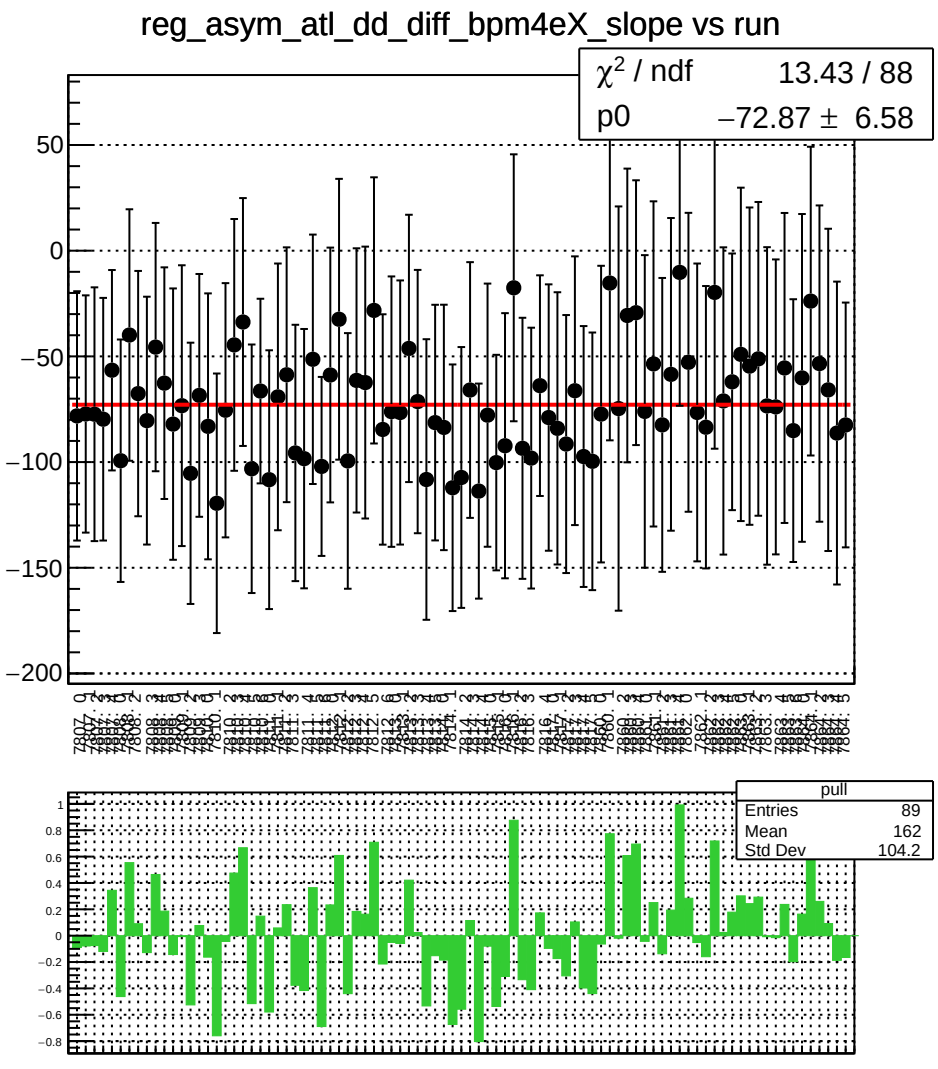

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 50.23 / 88
p0 −128 ± 0.2752
pull
Entries 89
Mean 171.5
Std Dev 113.8

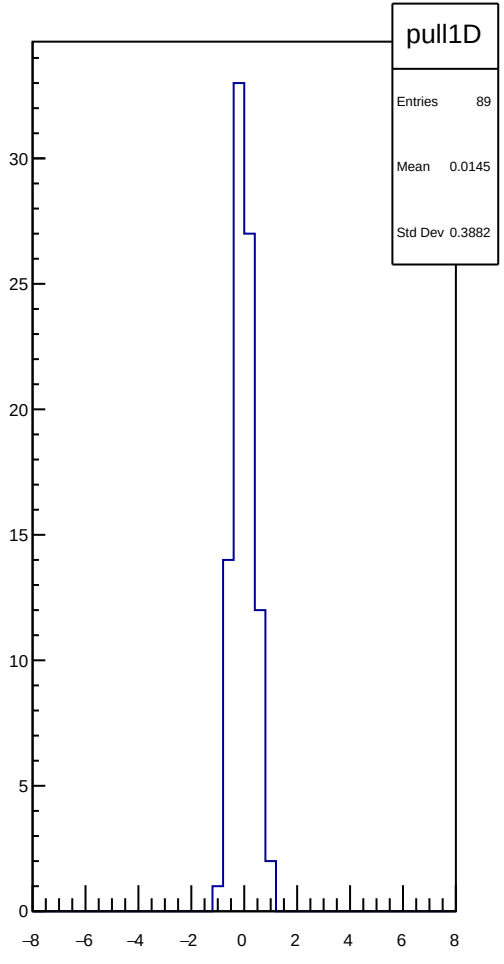

pull1D
Entries 89
Mean 0.07914
Std Dev 0.7471

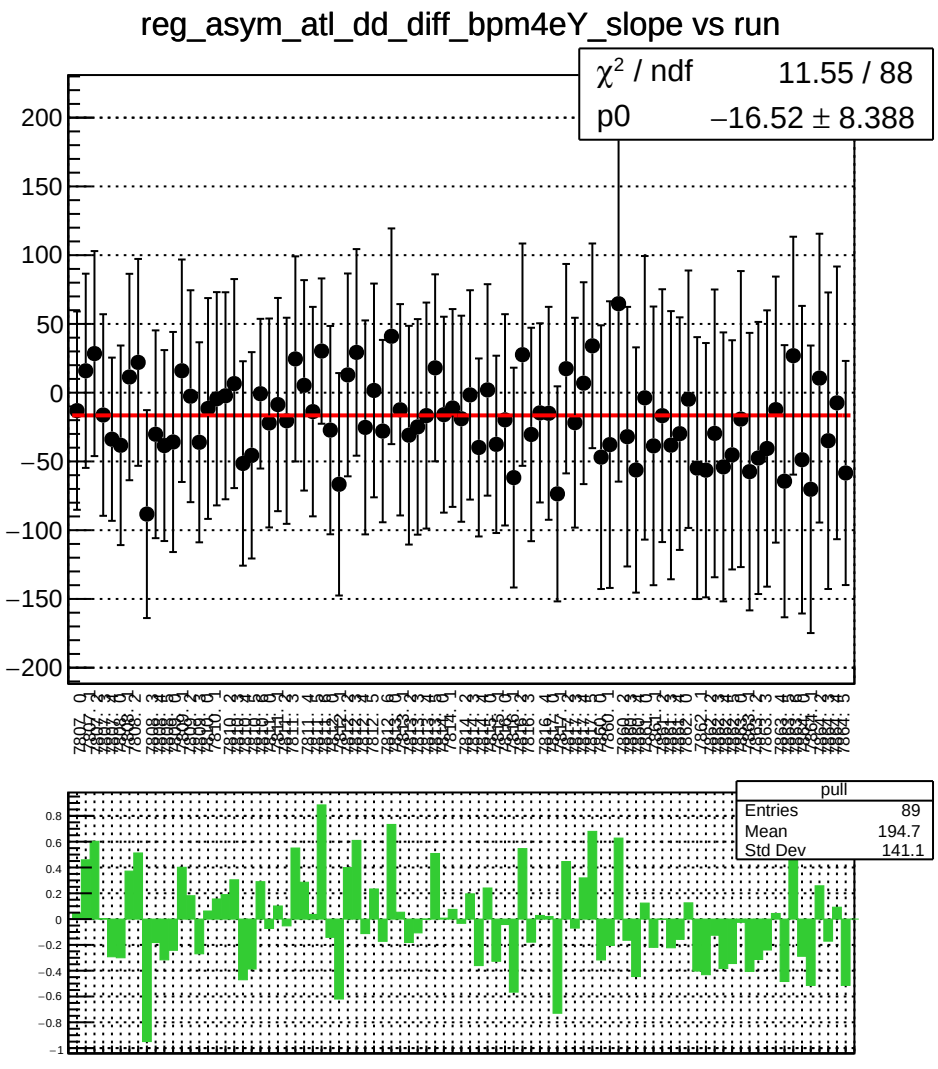

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 12.85 / 88
p0 132.3 ± 7.261
250
200
150
100
50
0
pull
Entries 89
Mean 117
Std Dev 57.56
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

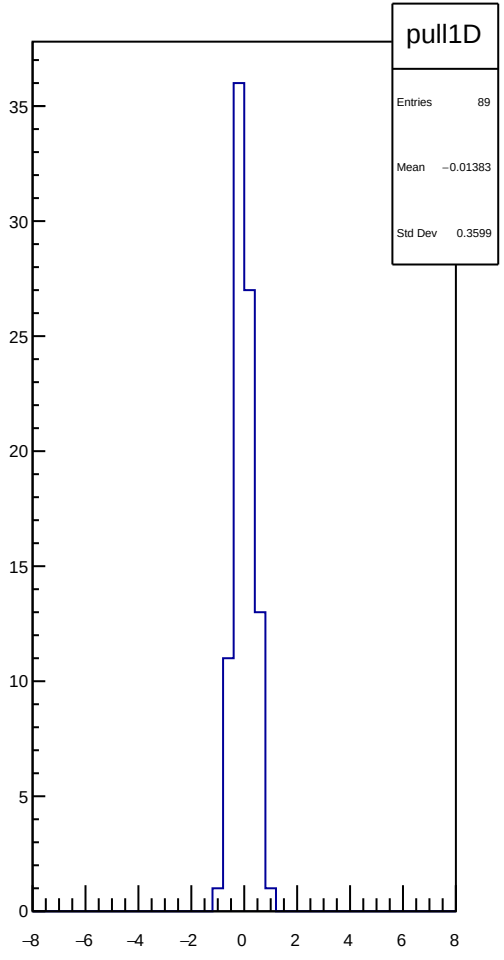

pull1D
Entries 89
Mean −0.01378
Std Dev 0.3797
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

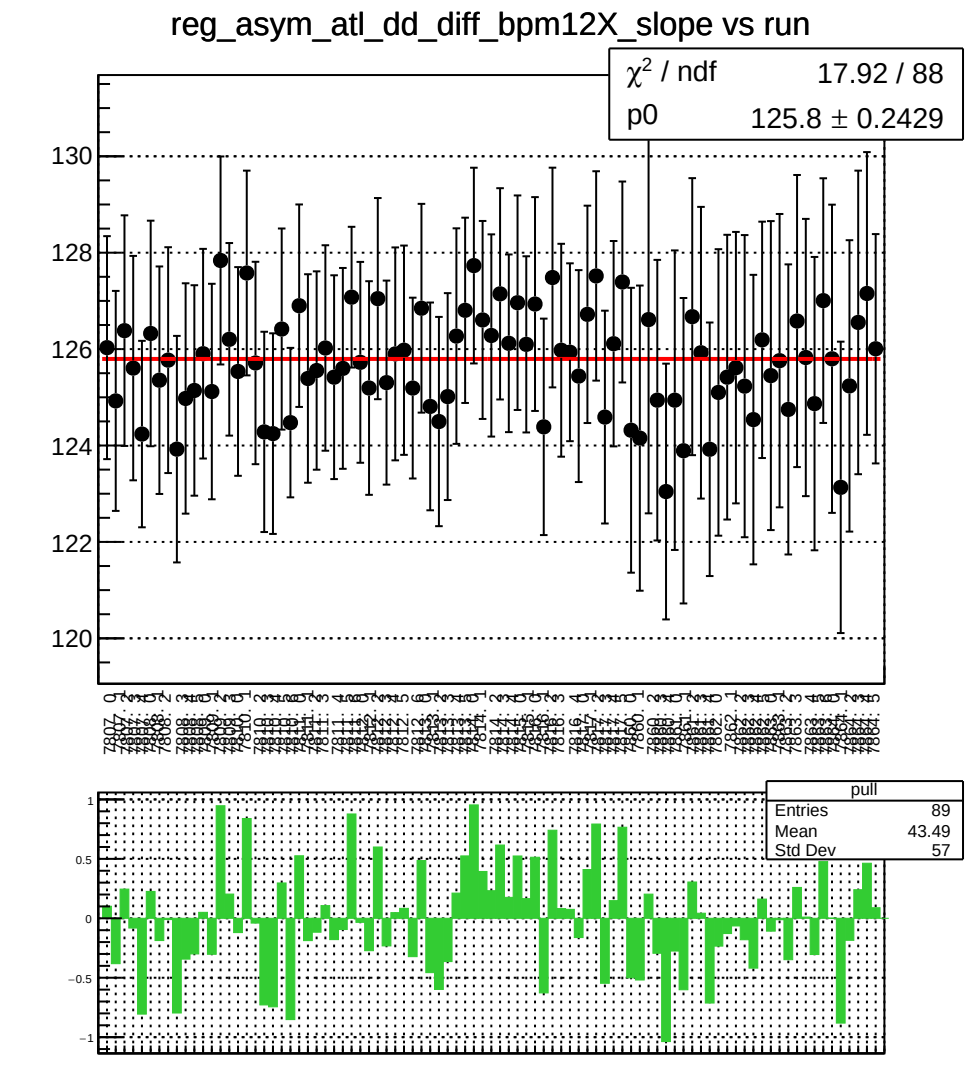

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.63 / 88
p0 −44.4 ± 7.369
pull
Entries 89
Mean 212.3
Std Dev 158.7
pull1D
Entries 89
Mean 0.02486
Std Dev 0.4047

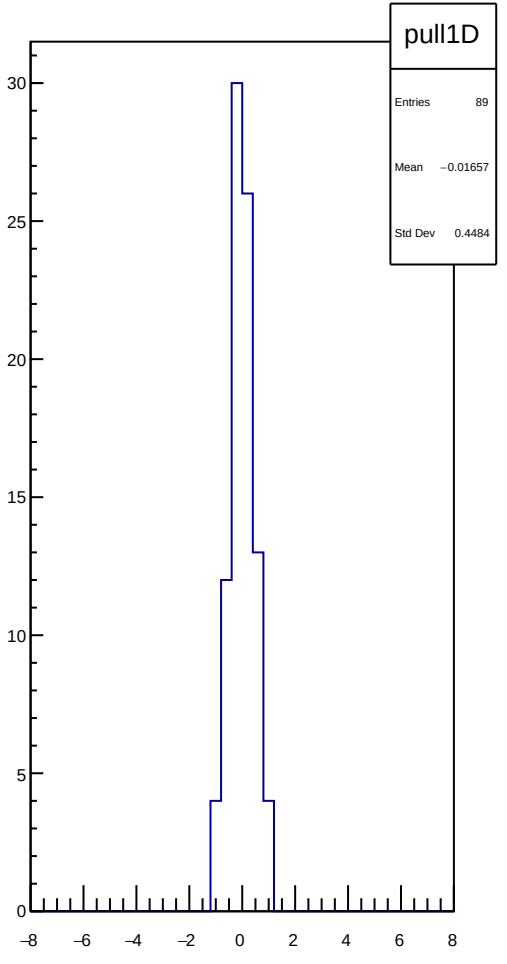

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.43 / 88
p0 −72.87 ± 6.58
pull
Entries 89
Mean 162
Std Dev 104.2

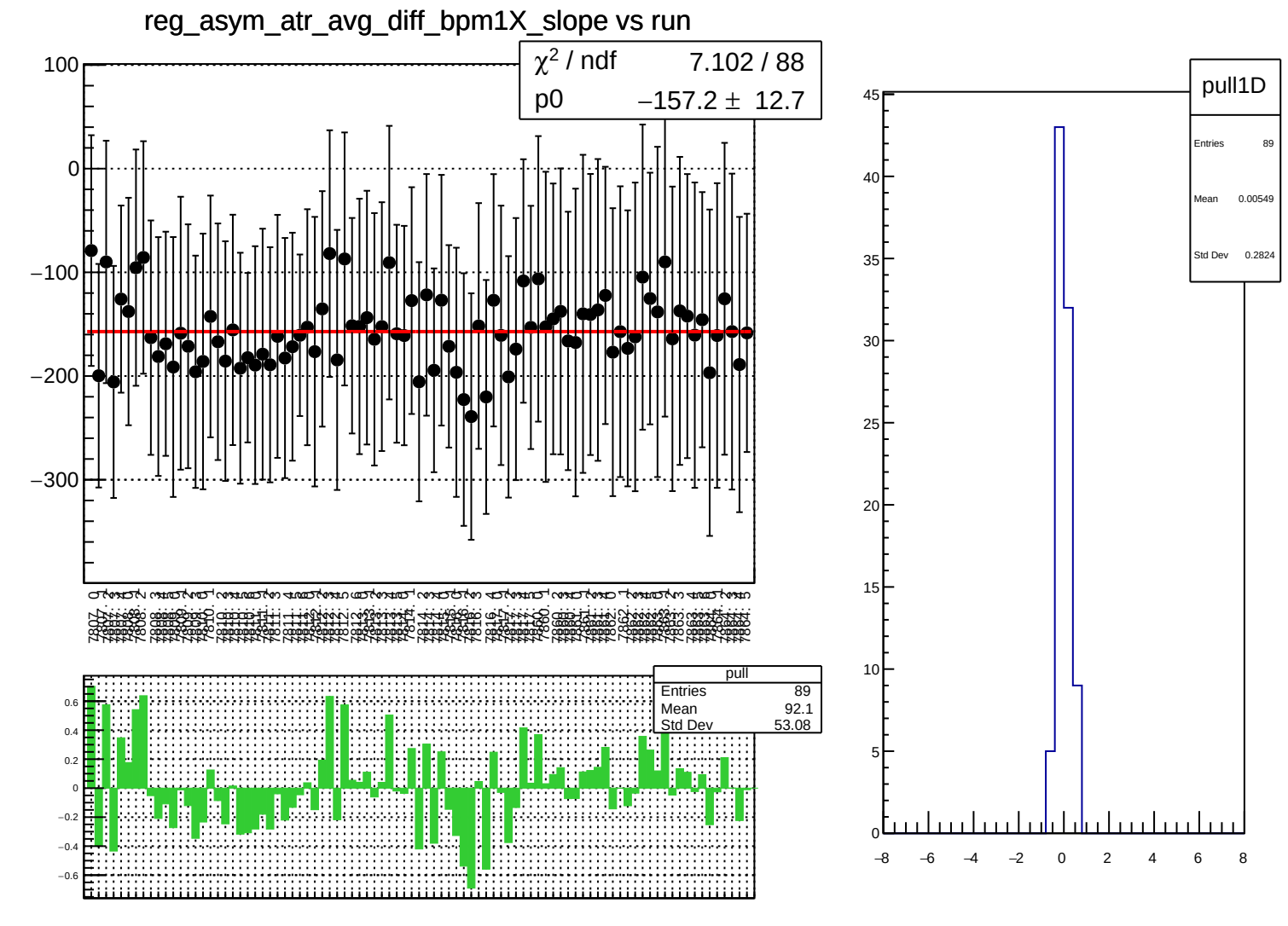

pull1D
Entries 89
Mean 0.0145
Std Dev 0.3882

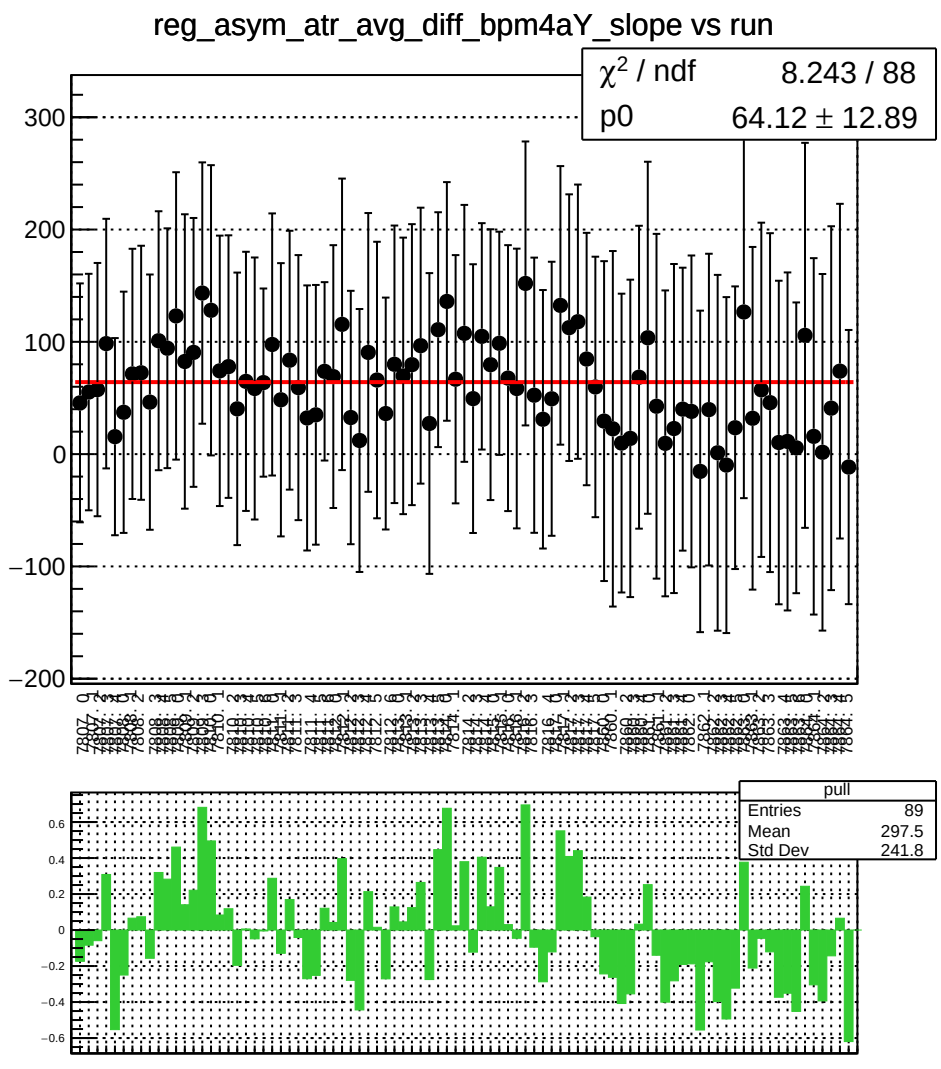

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.55 / 88
p0 −16.52 ± 8.388
pull
Entries 89
Mean 194.7
Std Dev 141.1

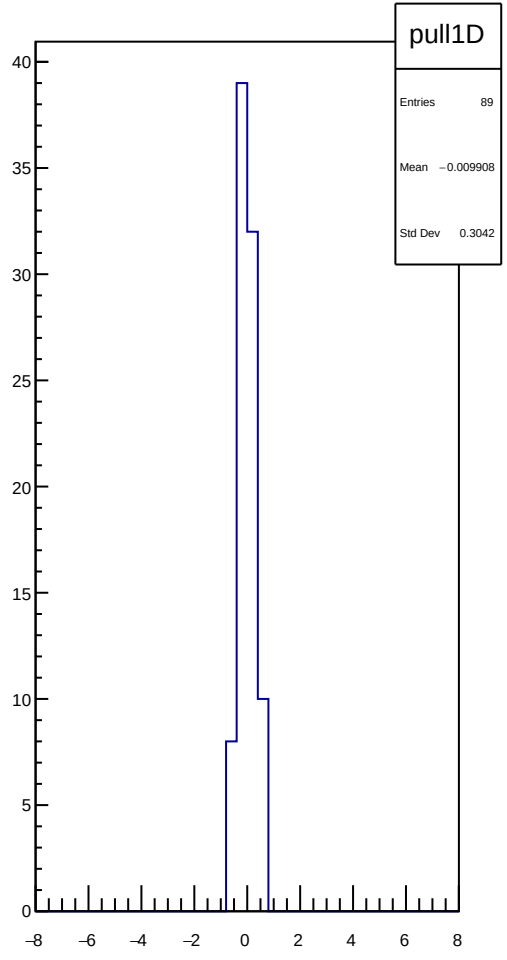

pull1D
Entries 89
Mean −0.01383
Std Dev 0.3599

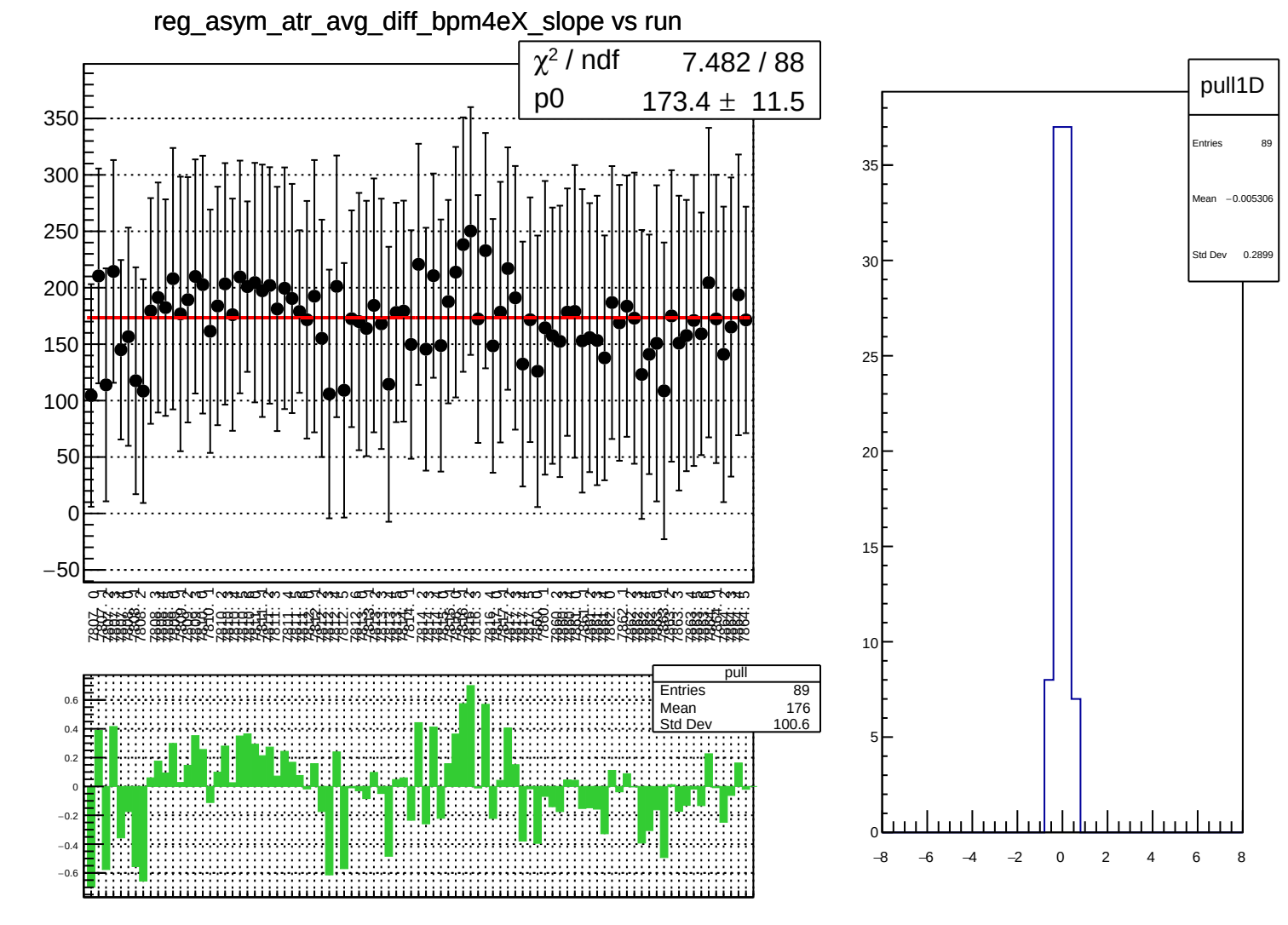

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 17.92 / 88
p0 125.8 ± 0.2429
130
128
126
124
122
120
pull
Entries 89
Mean 43.49
Std Dev 57
1
0.5
0
−0.5
−1

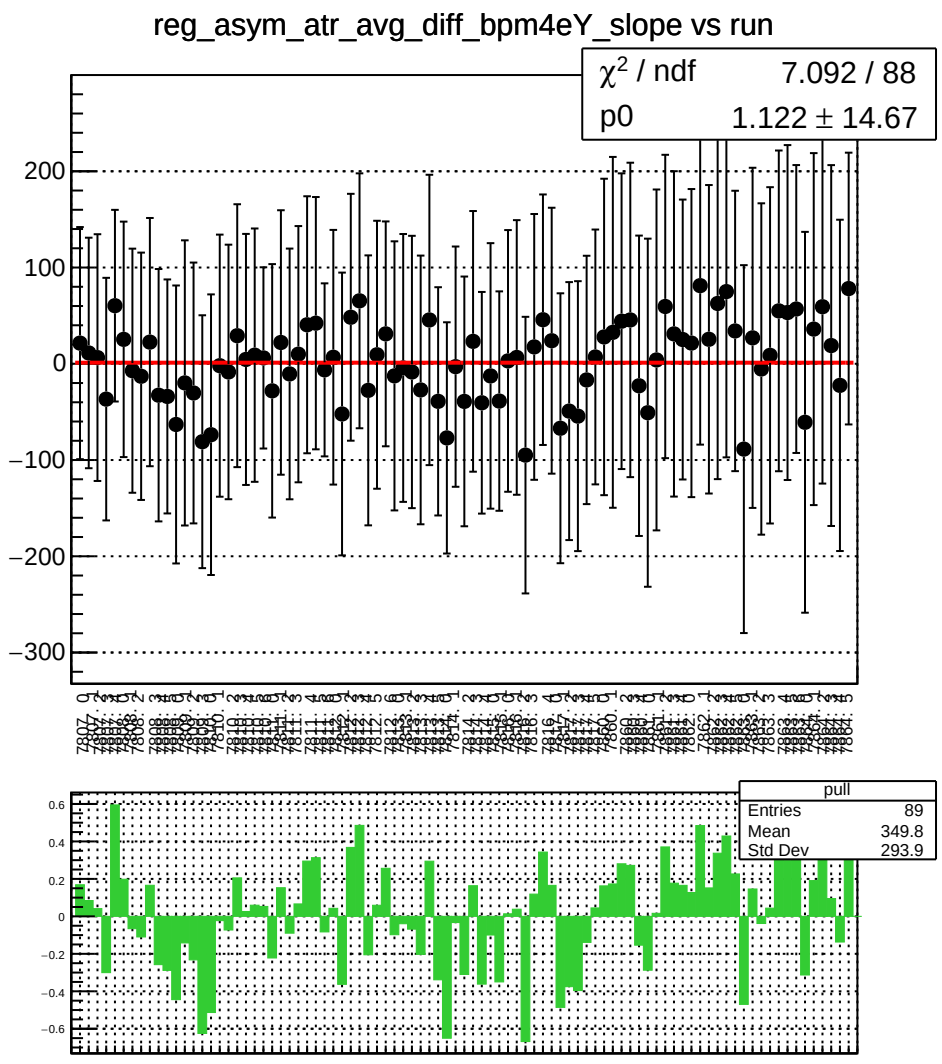

pull1D
Entries 89
Mean −0.01657
Std Dev 0.4484
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

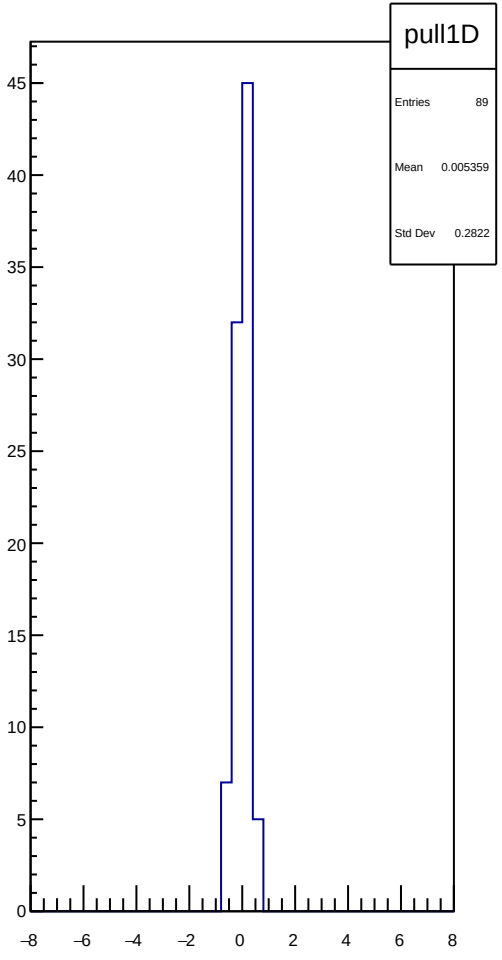

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 7.102 / 88
p0 −157.2 ± 12.7
pull
Entries 89
Mean 92.1
Std Dev 53.08
pull1D
Entries 89
Mean 0.00549
Std Dev 0.2824

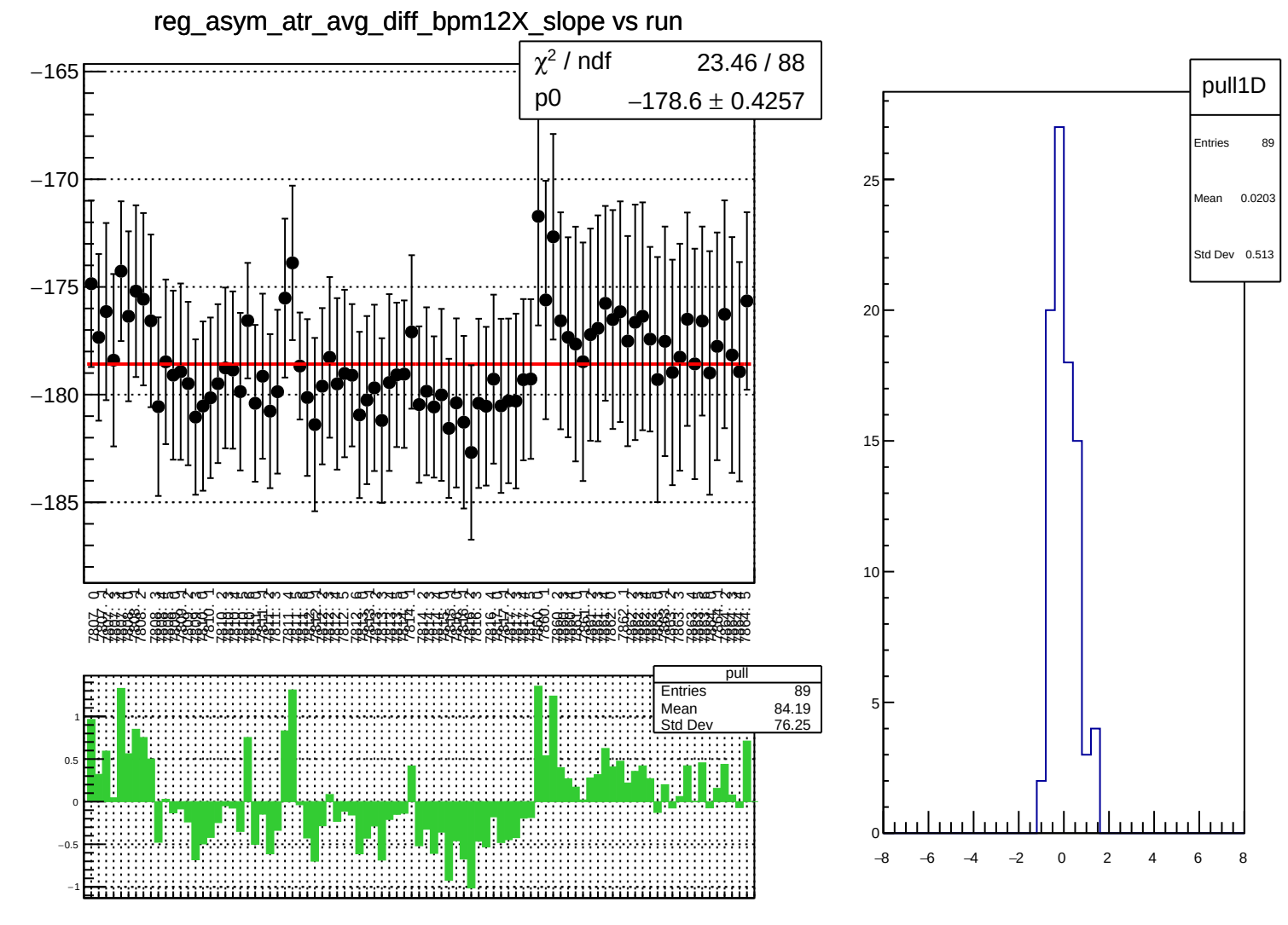

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.243 / 88
p0 64.12 ± 12.89
pull
Entries 89
Mean 297.5
Std Dev 241.8

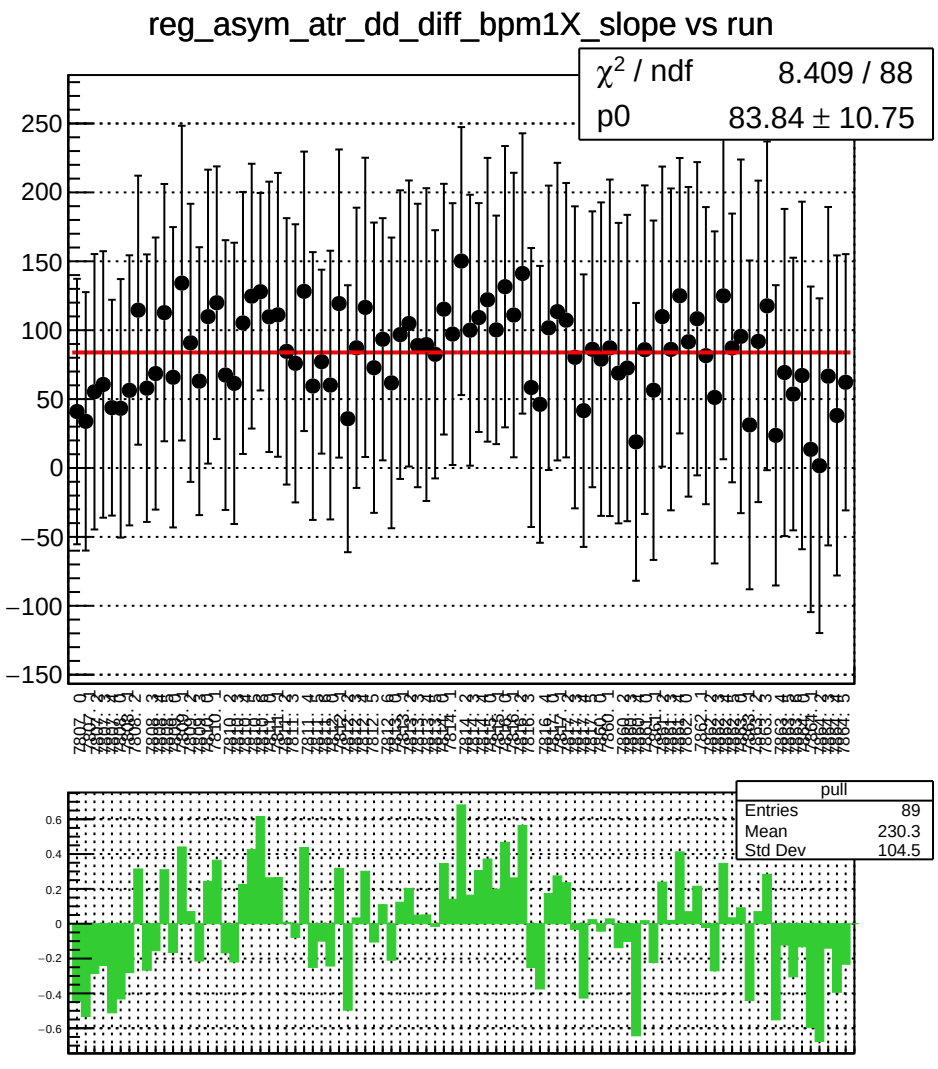

pull1D
Entries 89
Mean −0.009908
Std Dev 0.3042

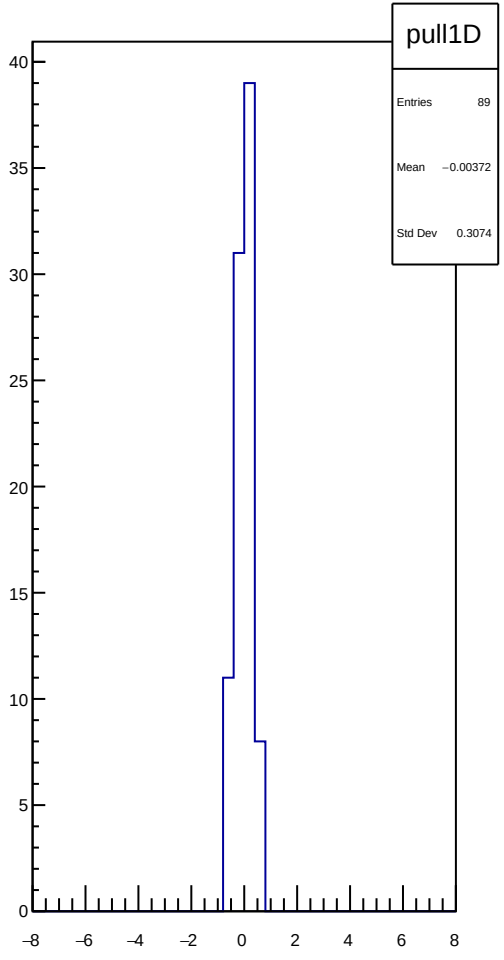

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.482 / 88
p0 173.4 ± 11.5
pull
Entries 89
Mean 176
Std Dev 100.6
pull1D
Entries 89
Mean −0.005306
Std Dev 0.2899

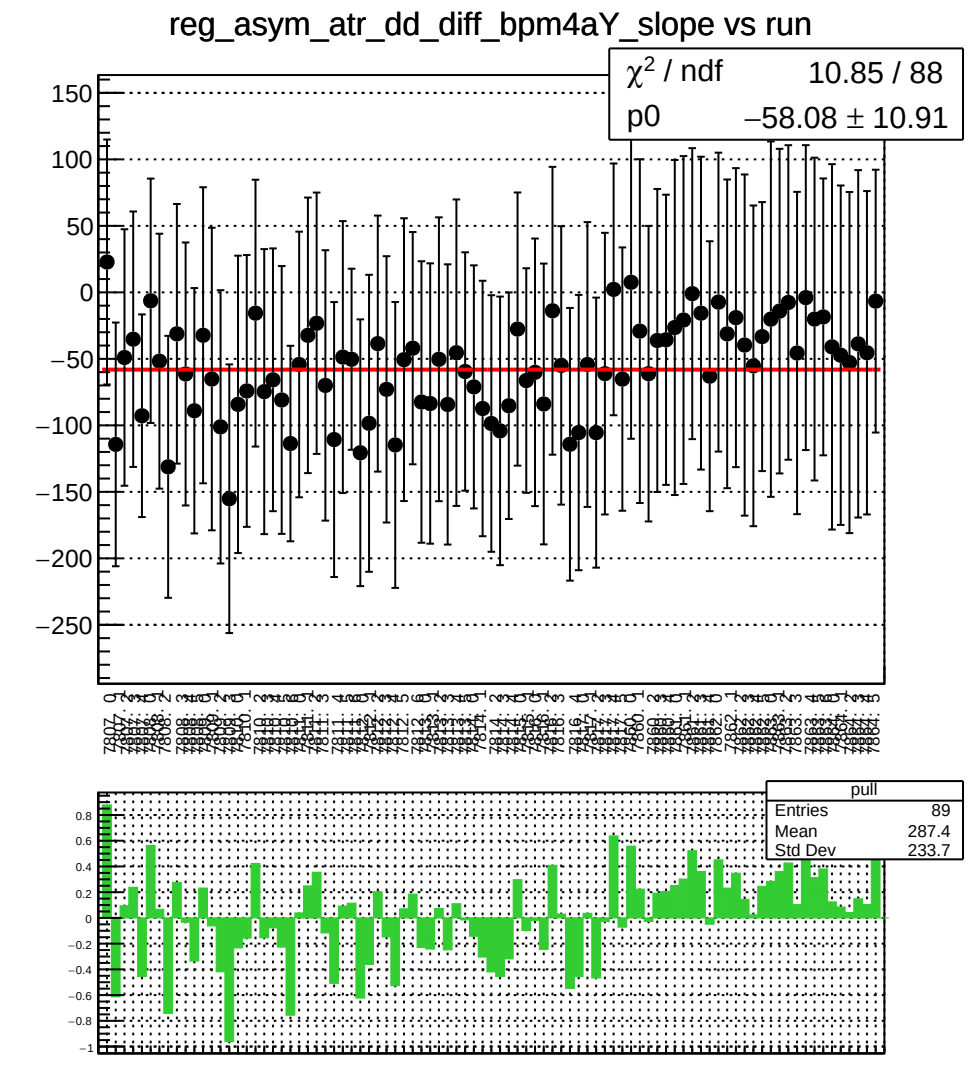

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.092 / 88
p0 1.122 ± 14.67
pull
Entries 89
Mean 349.8
Std Dev 293.9

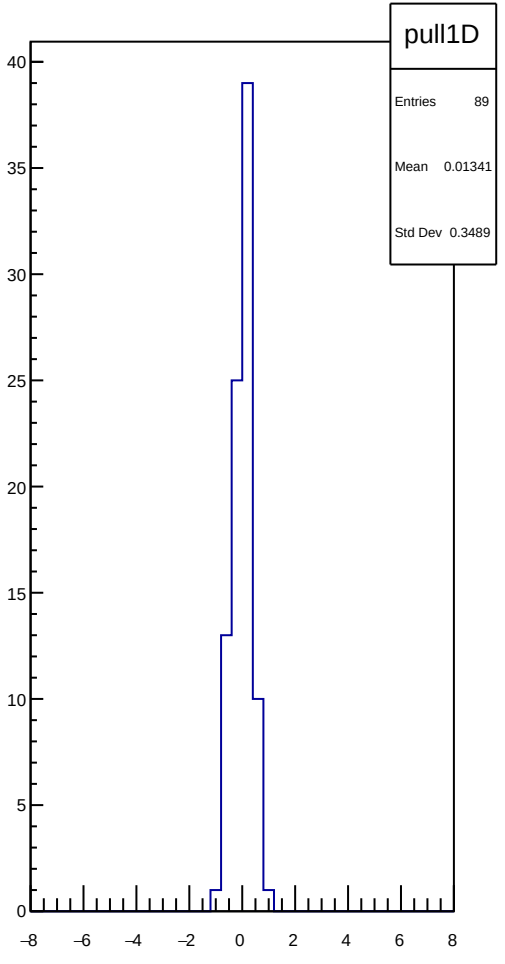

pull1D
Entries 89
Mean 0.005359
Std Dev 0.2822

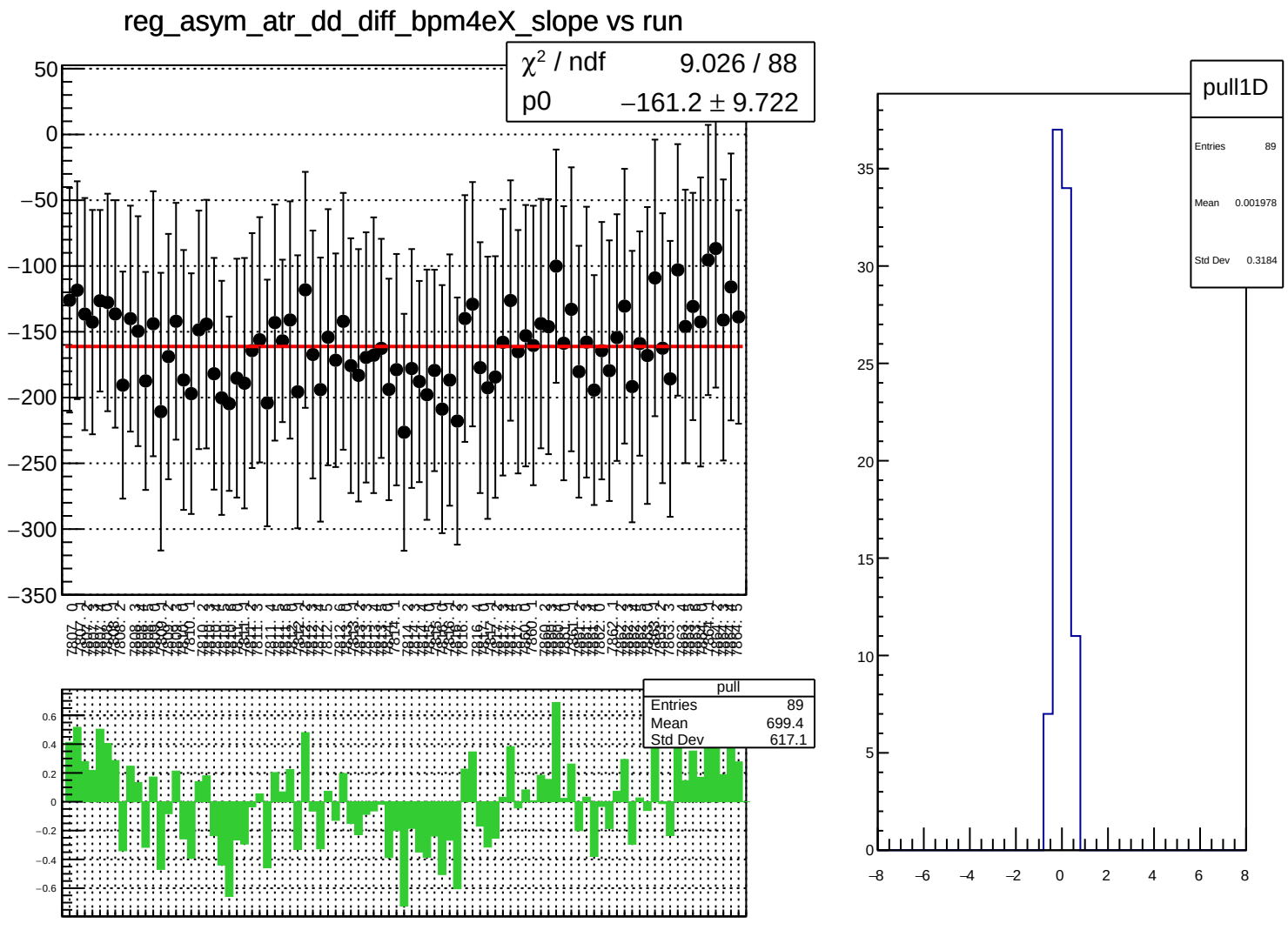

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 23.46 / 88
p0 −178.6 ± 0.4257
−165
−170
−175
−180
−185
pull
Entries 89
Mean 84.19
Std Dev 76.25
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.0203
Std Dev 0.513
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

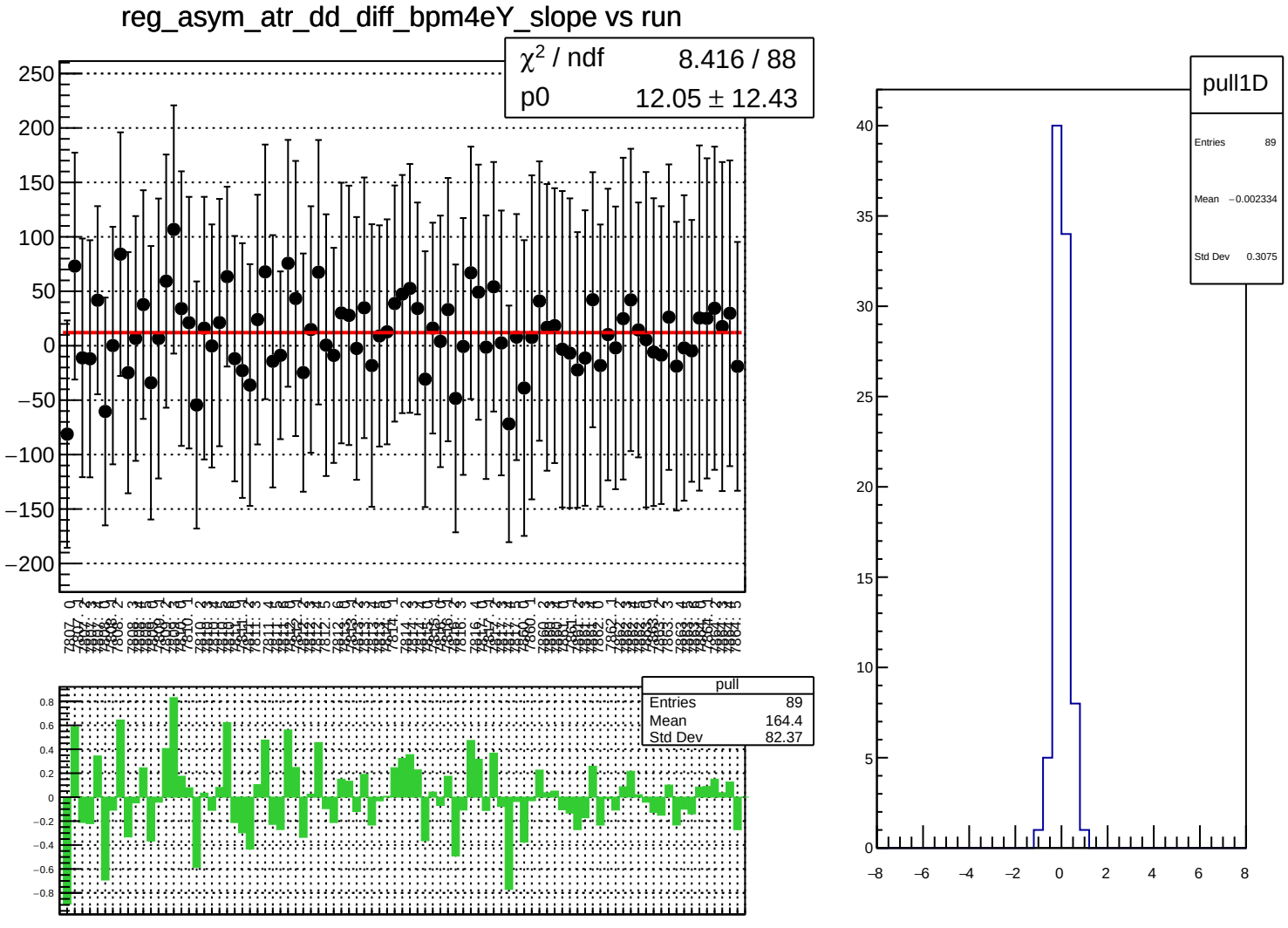

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 8.409 / 88
p0 83.84 ± 10.75
pull
Entries 89
Mean 230.3
Std Dev 104.5

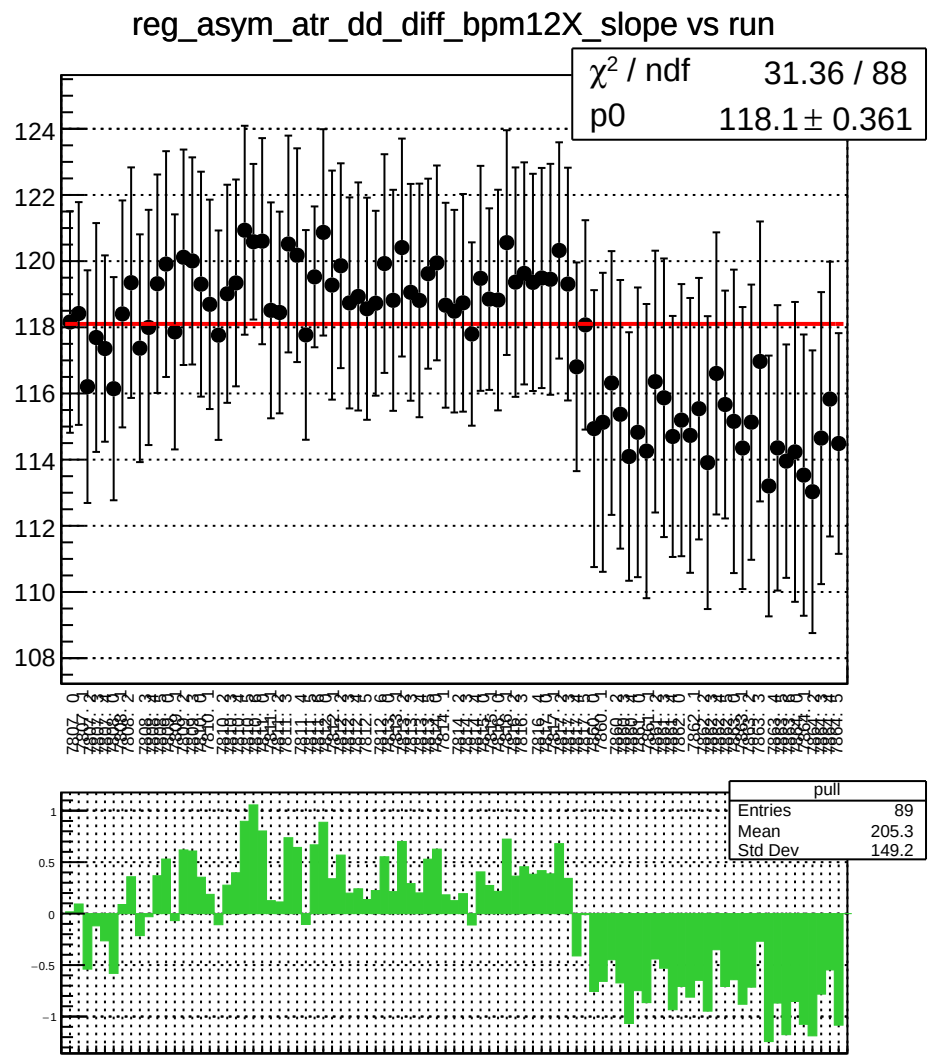

pull1D
Entries 89
Mean −0.00372
Std Dev 0.3074

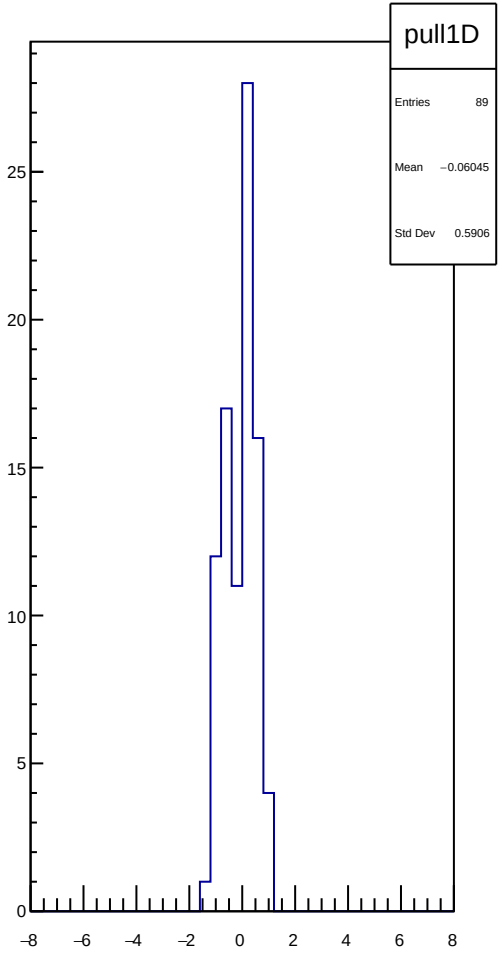

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.85 / 88
p0 −58.08 ± 10.91
pull
Entries 89
Mean 287.4
Std Dev 233.7

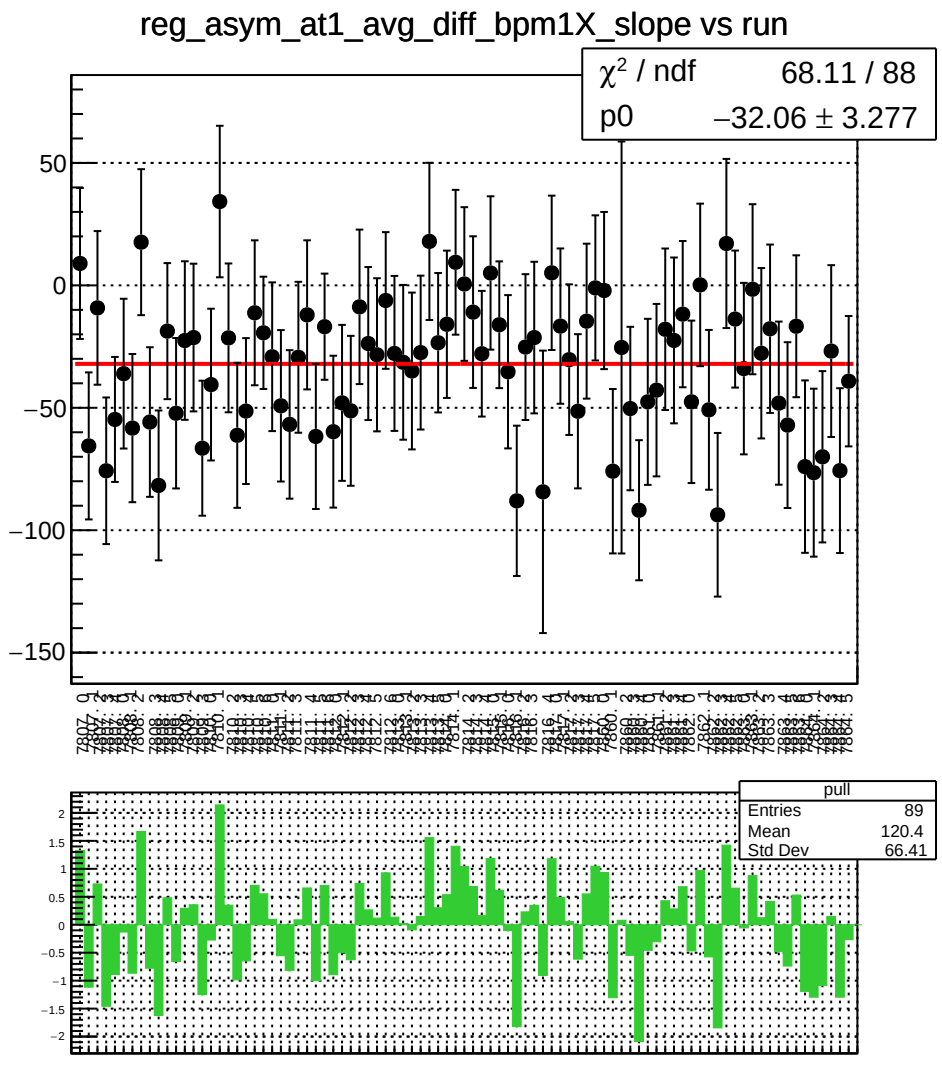

pull1D
Entries 89
Mean 0.01341
Std Dev 0.3489

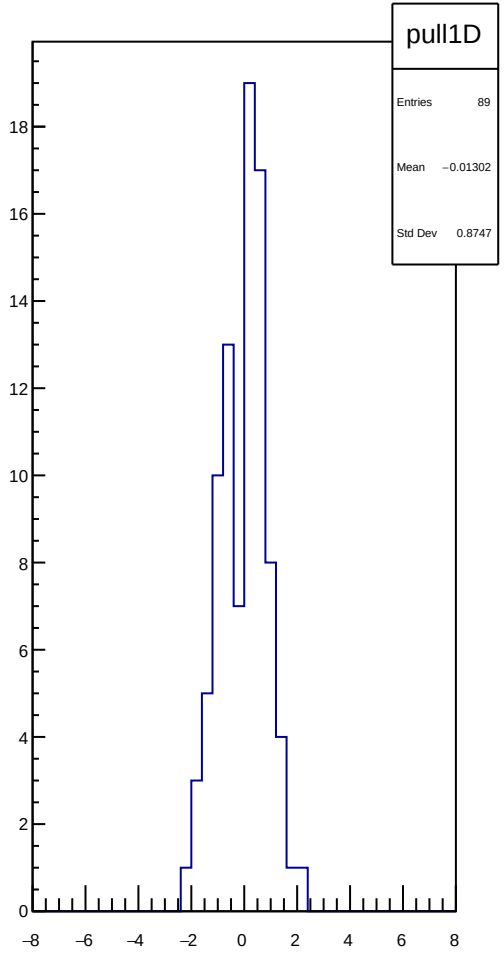

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.026 / 88
p0 −161.2 ± 9.722
pull
Entries 89
Mean 699.4
Std Dev 617.1
pull1D
Entries 89
Mean 0.001978
Std Dev 0.3184

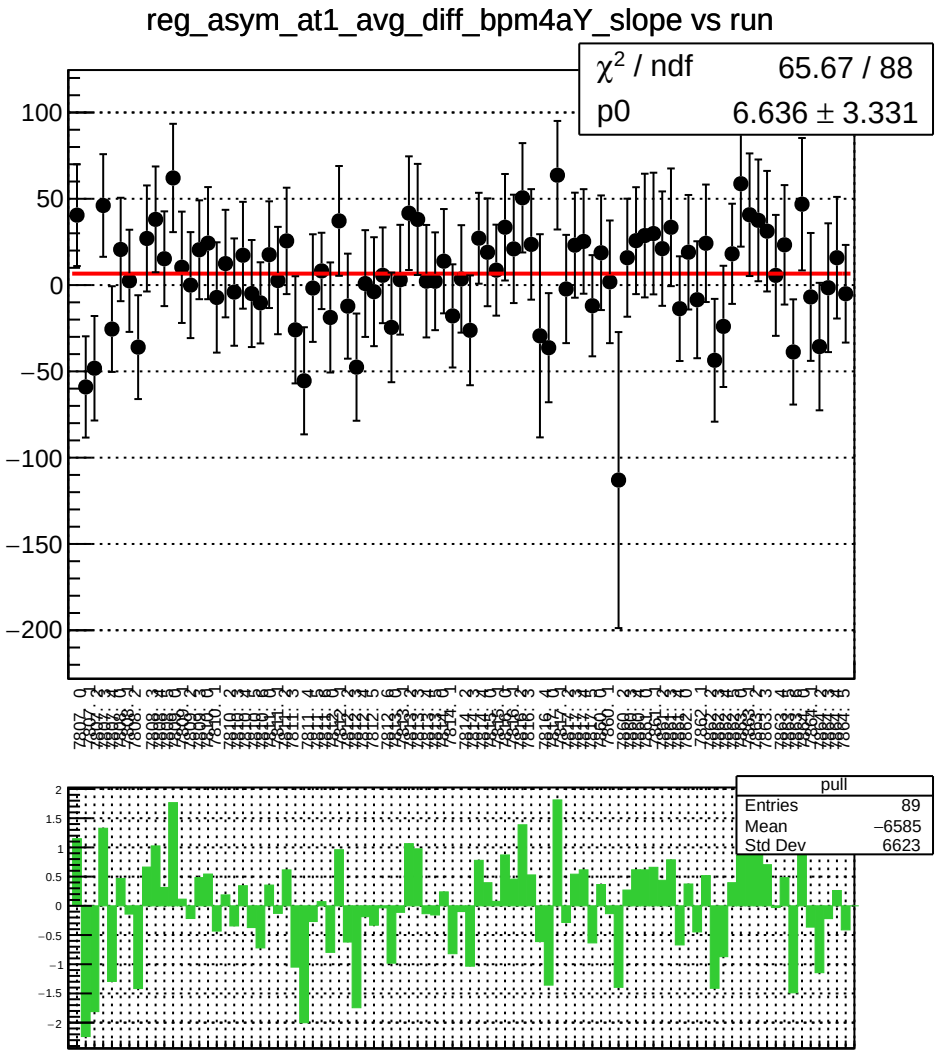

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.416 / 88
p0 12.05 ± 12.43
pull
Entries 89
Mean 164.4
Std Dev 82.37
pull1D
Entries 89
Mean −0.002334
Std Dev 0.3075

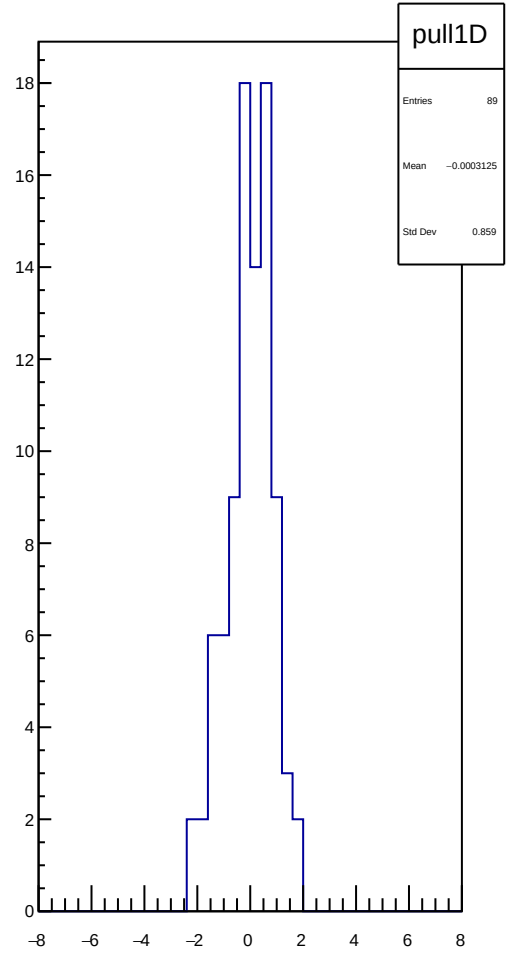

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ^2 / ndf 31.36 / 88
p0 118.1 ± 0.361
124
122
120
118
116
114
112
110
108
pull
Entries 89
Mean 205.3
Std Dev 149.2
1
0.5
0
−0.5
−1

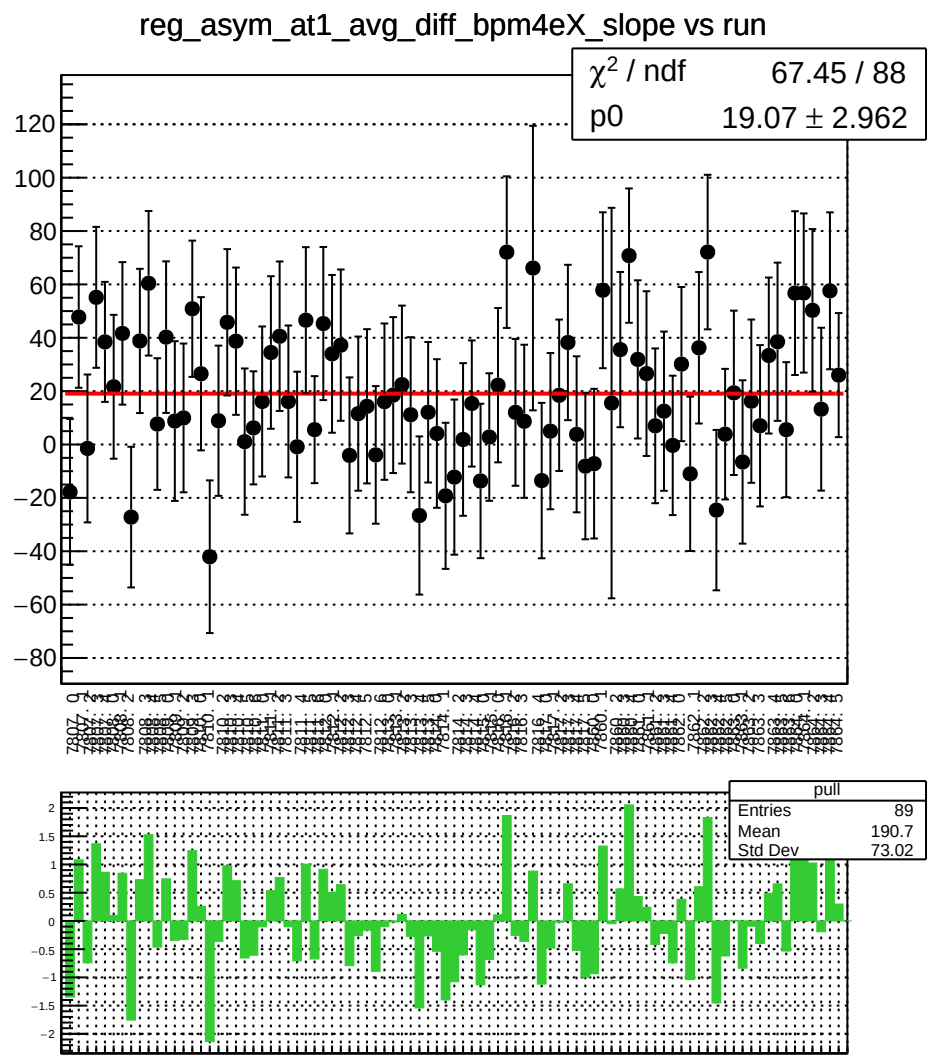

pull1D
Entries 89
Mean −0.06045
Std Dev 0.5906
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

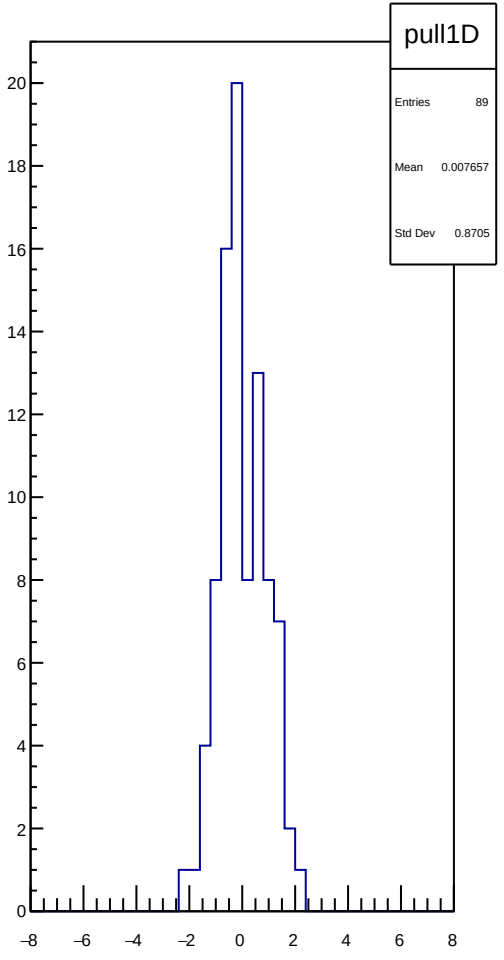

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 68.11 / 88
p0 −32.06 ± 3.277
50
0
−50
−100
−150
pull
Entries 89
Mean 120.4
Std Dev 66.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

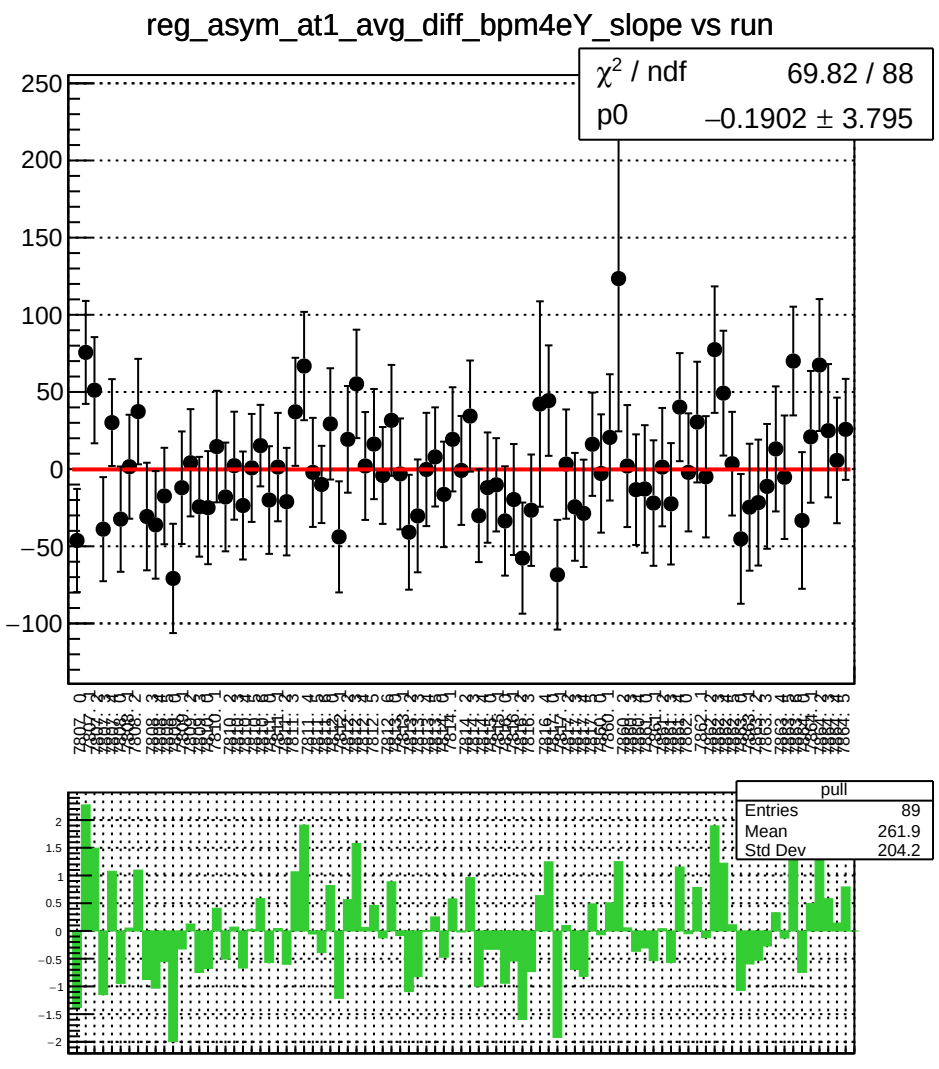

pull1D
Entries 89
Mean −0.01302
Std Dev 0.8747
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

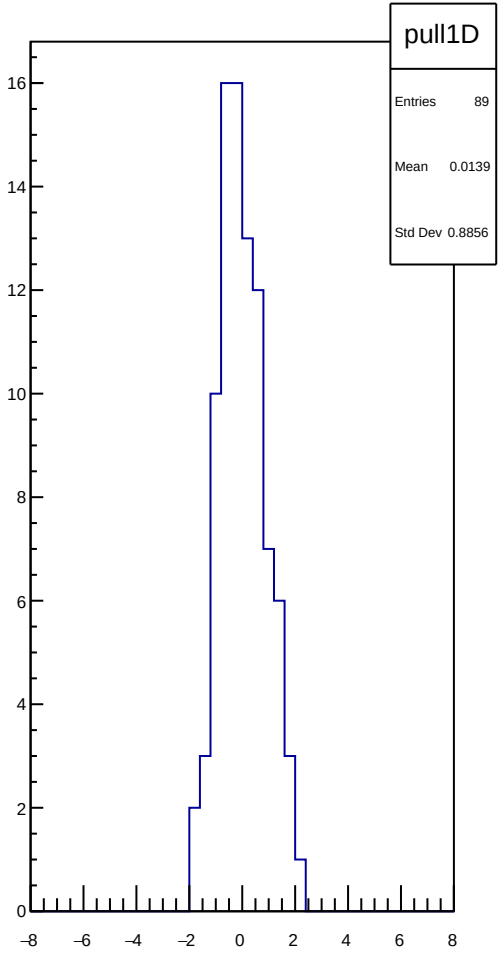

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 65.67 / 88
p0 6.636 ± 3.331
pull
Entries 89
Mean −6585
Std Dev 6623

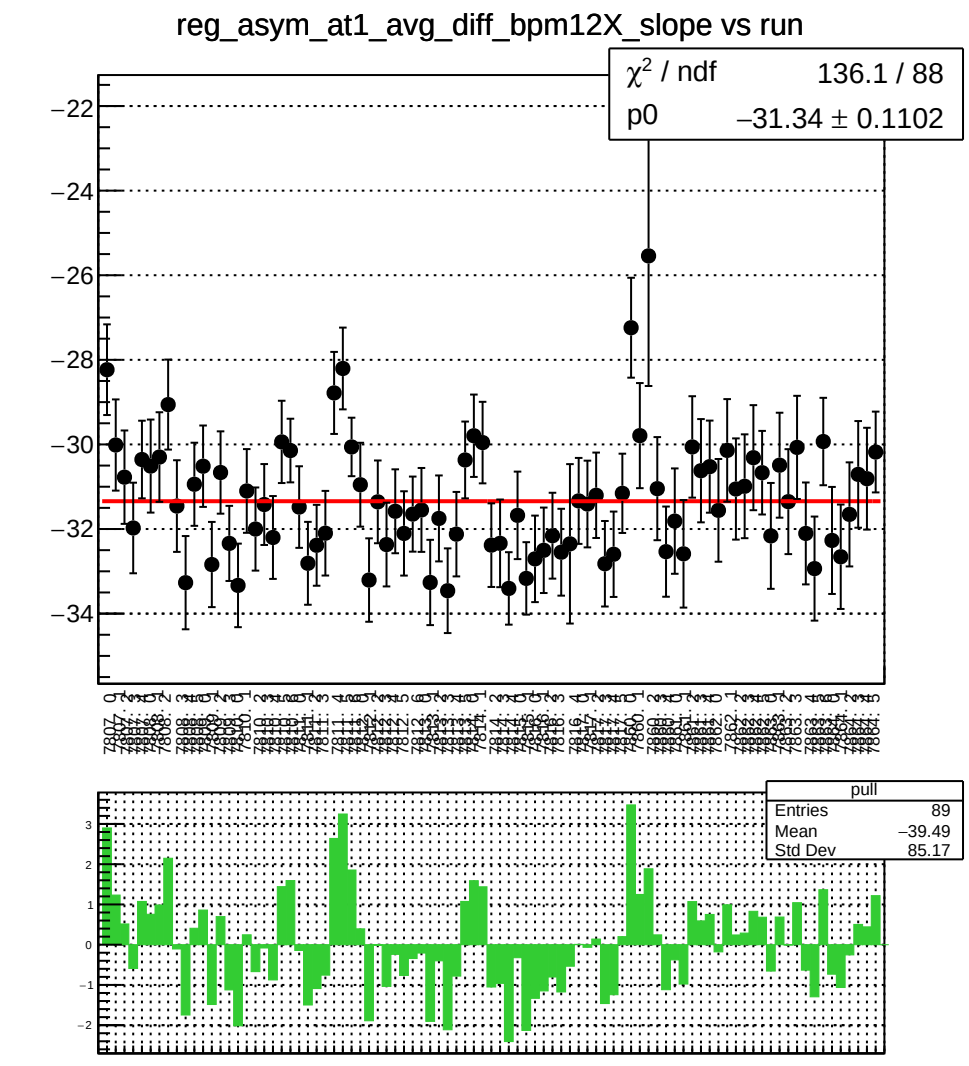

pull1D
Entries 89
Mean −0.0003125
Std Dev 0.859

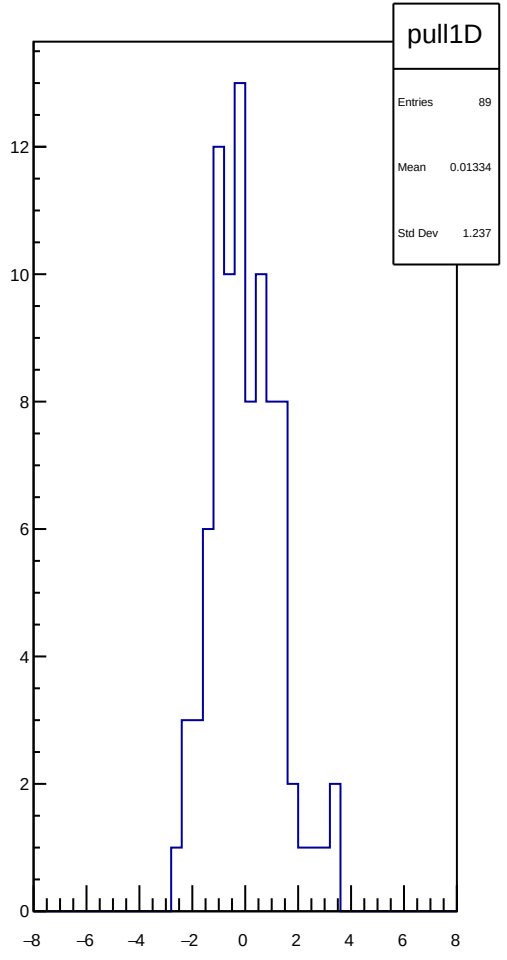

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 67.45 / 88
p0 19.07 ± 2.962
pull
Entries 89
Mean 190.7
Std Dev 73.02

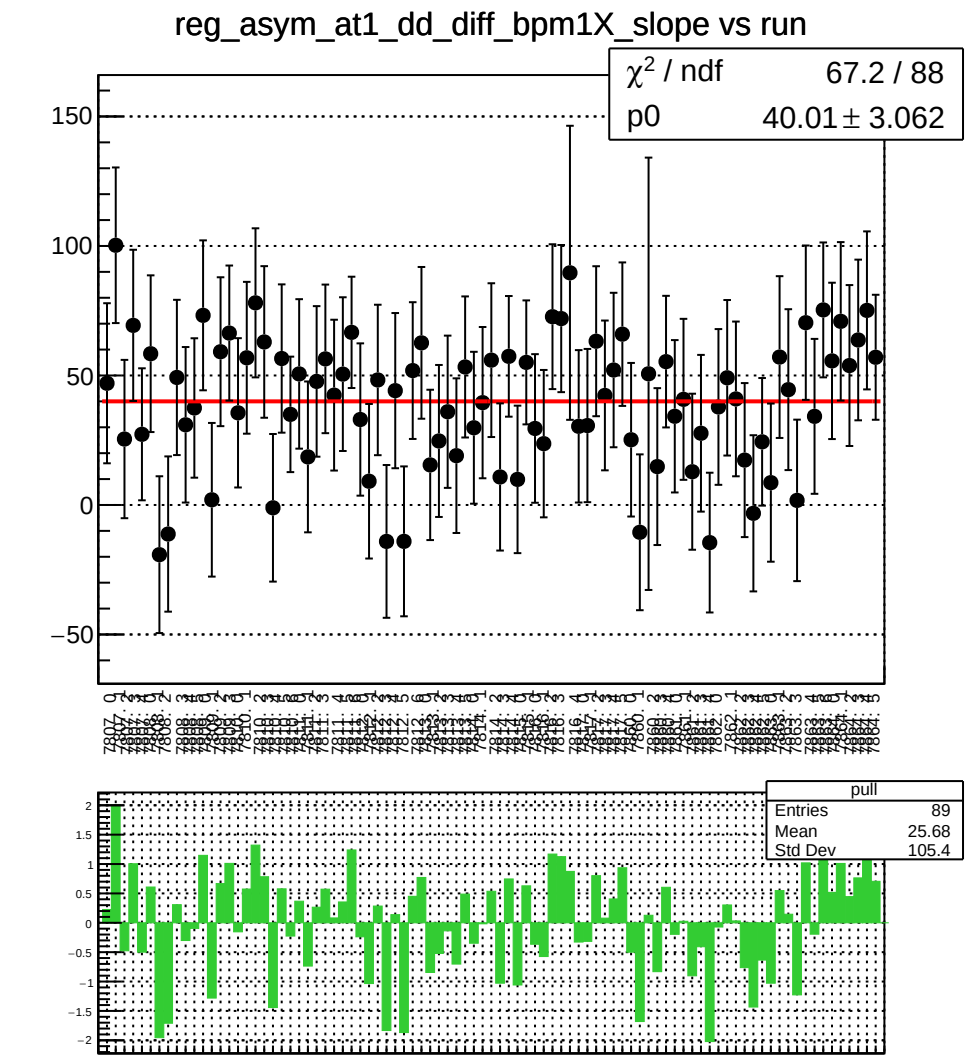

pull1D
Entries 89
Mean 0.007657
Std Dev 0.8705

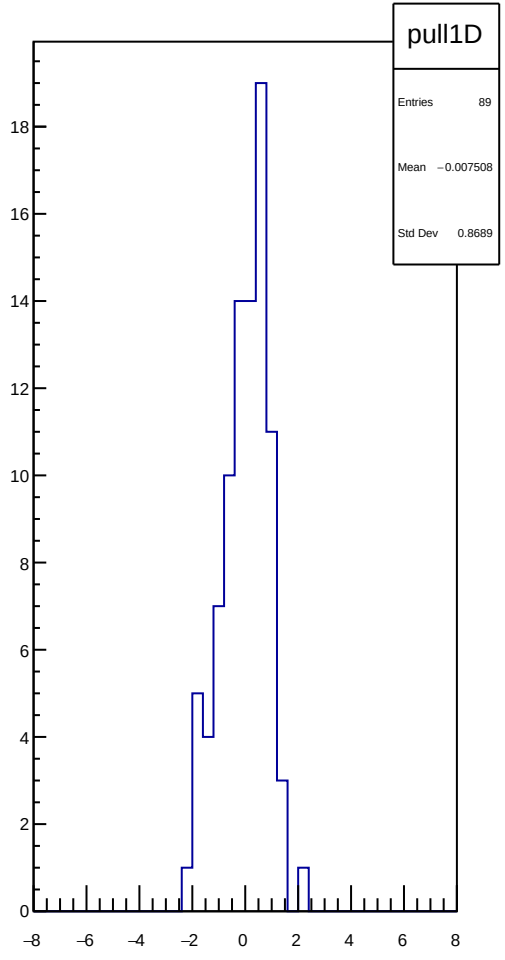

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 69.82 / 88
p0 −0.1902 ± 3.795
250
200
150
100
50
0
−50
−100
pull
Entries 89
Mean 261.9
Std Dev 204.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

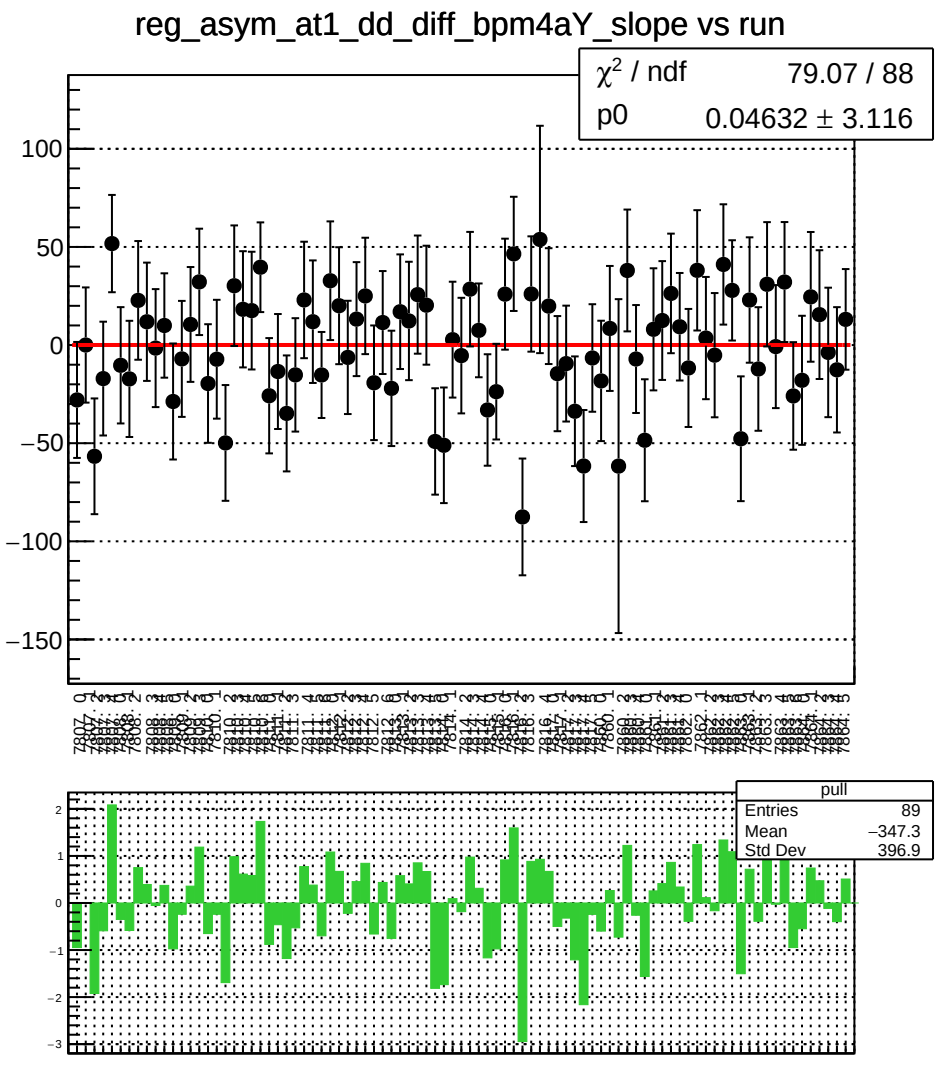

pull1D
Entries 89
Mean 0.0139
Std Dev 0.8856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

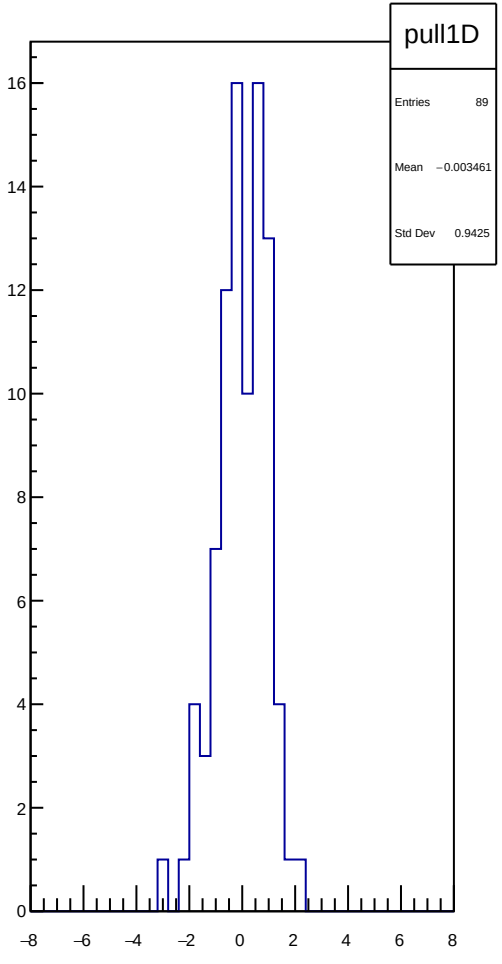

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 136.1 / 88
p0 −31.34 ± 0.1102
−22
−24
−26
−28
−30
−32
−34
pull
Entries 89
Mean −39.49
Std Dev 85.17
3
2
1
0
−1
−2

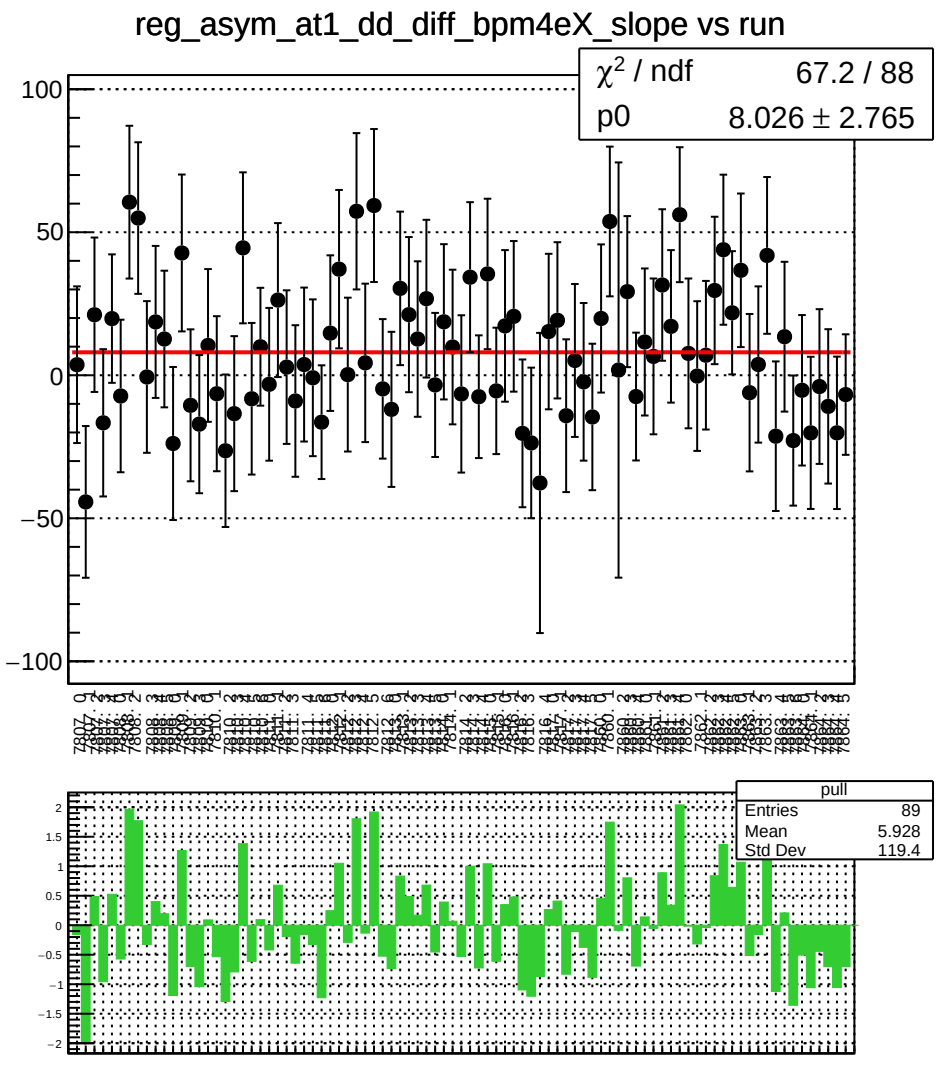

pull1D
Entries 89
Mean 0.01334
Std Dev 1.237
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

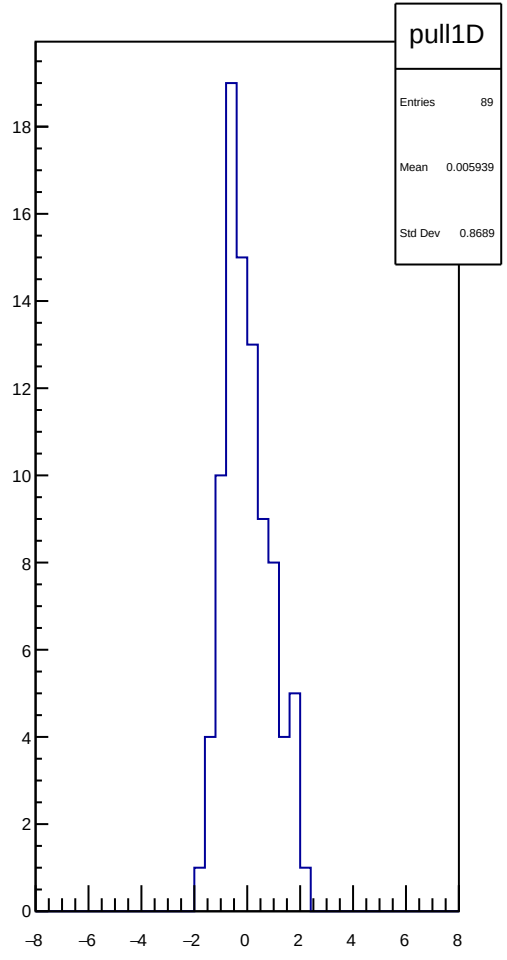

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ^2 / ndf 67.2 / 88
p0 40.01 ± 3.062
150
100
50
0
−50
pull
Entries 89
Mean 25.68
Std Dev 105.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

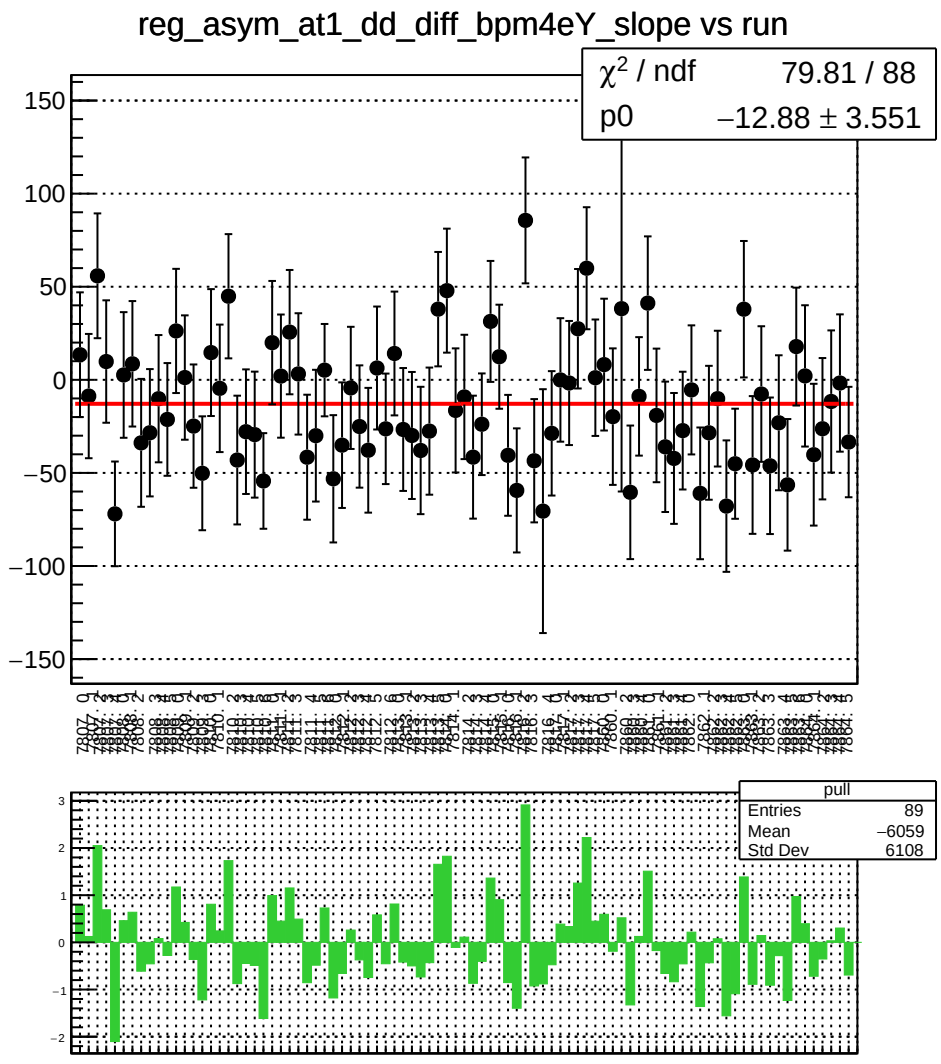

pull1D
Entries 89
Mean −0.007508
Std Dev 0.8689
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

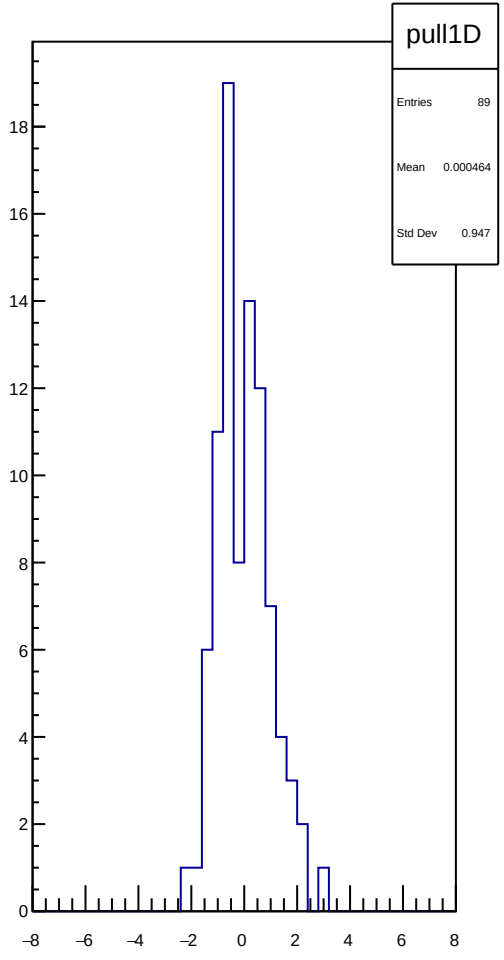

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.07 / 88
p0 0.04632 ± 3.116
pull
Entries 89
Mean −347.3
Std Dev 396.9

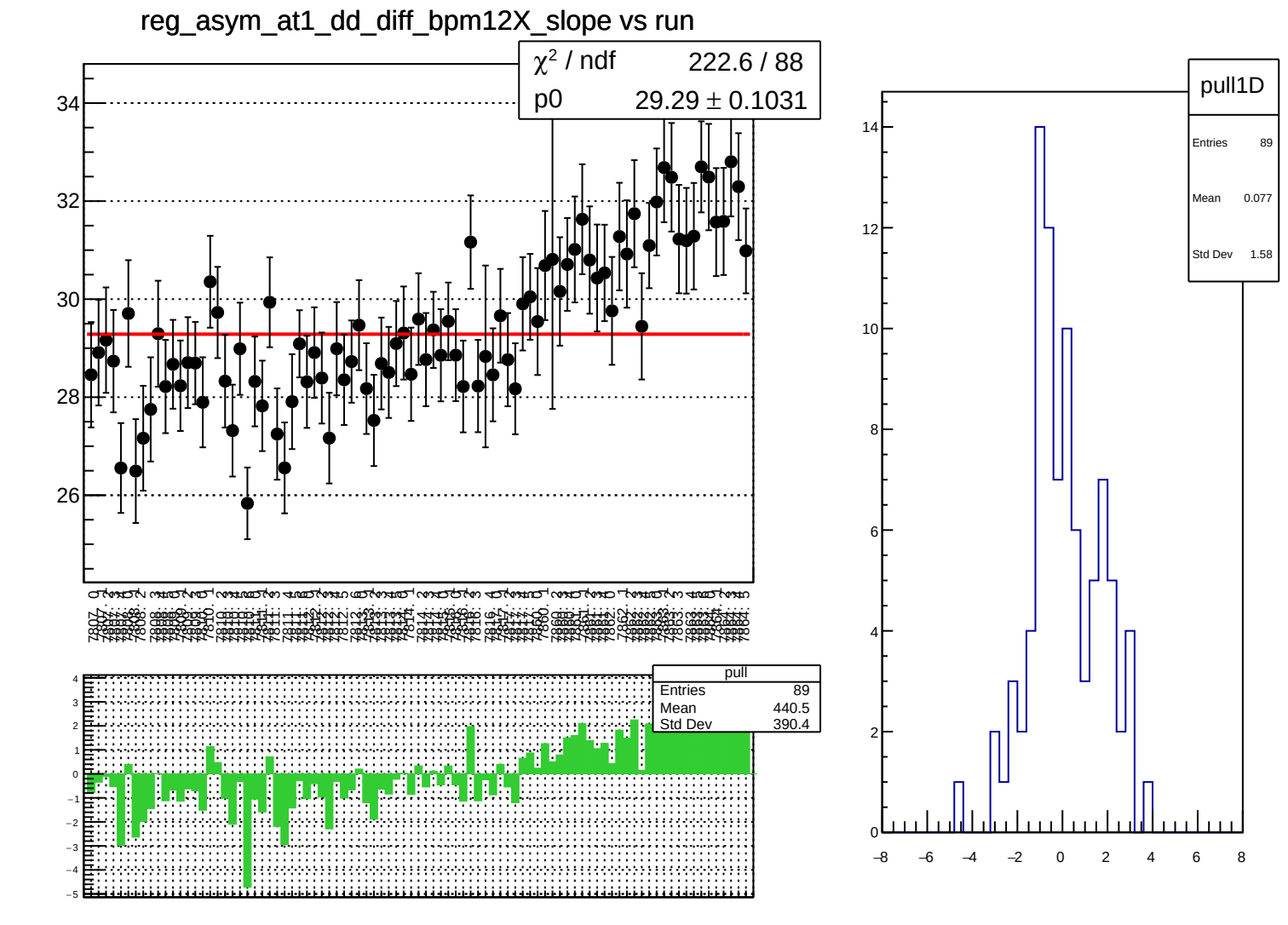

pull1D
Entries 89
Mean −0.003461
Std Dev 0.9425

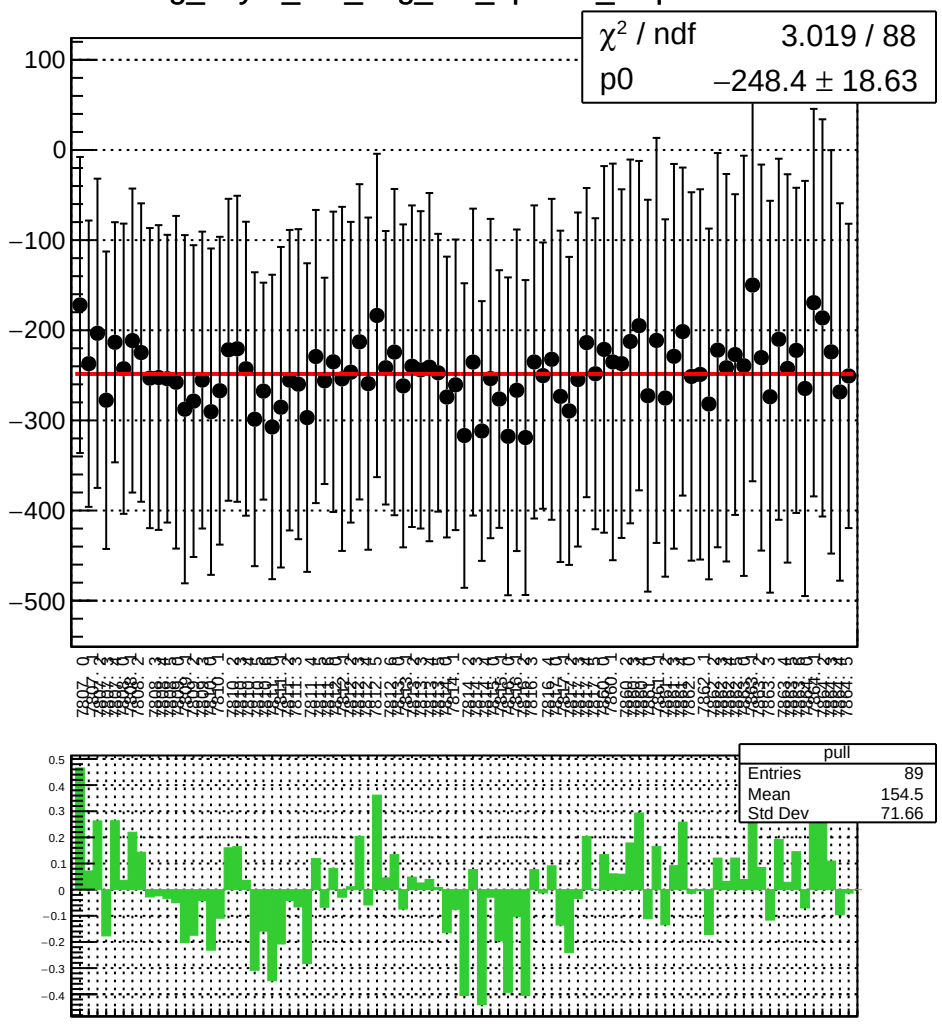

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 67.2 / 88
p0 8.026 ± 2.765
pull
Entries 89
Mean 5.928
Std Dev 119.4

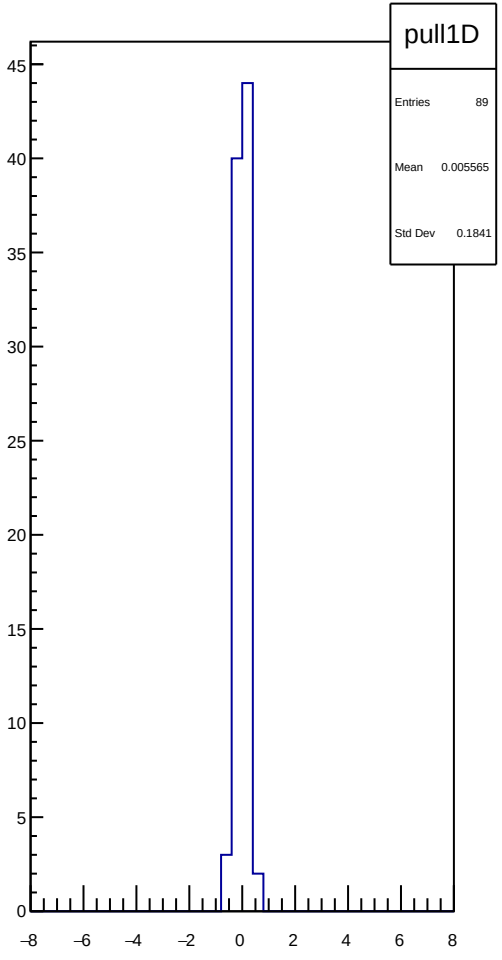

pull1D
Entries 89
Mean 0.005939
Std Dev 0.8689

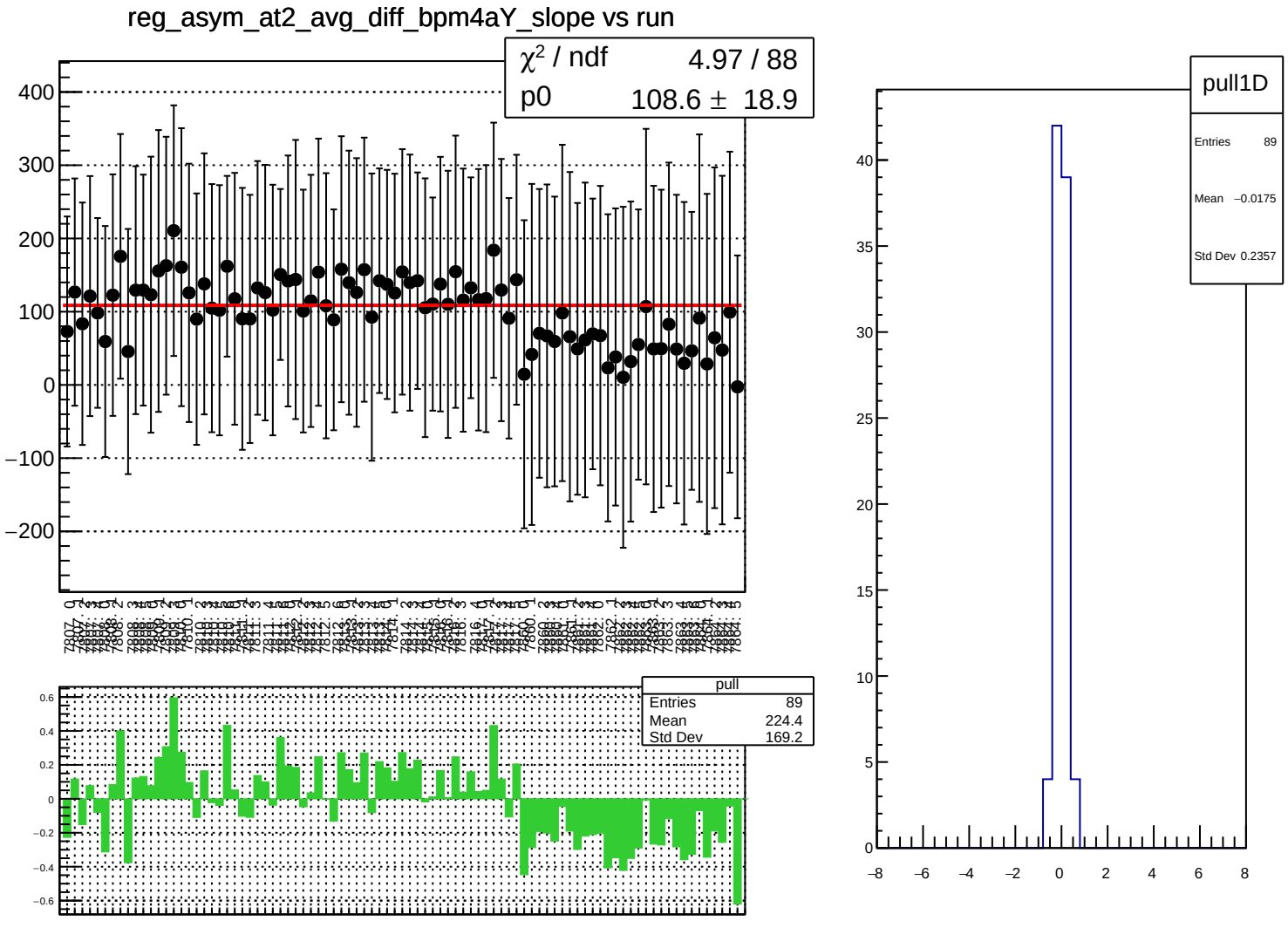

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 79.81 / 88
p0 −12.88 ± 3.551
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −6059
Std Dev 6108
3
2
1
0
−1
−2

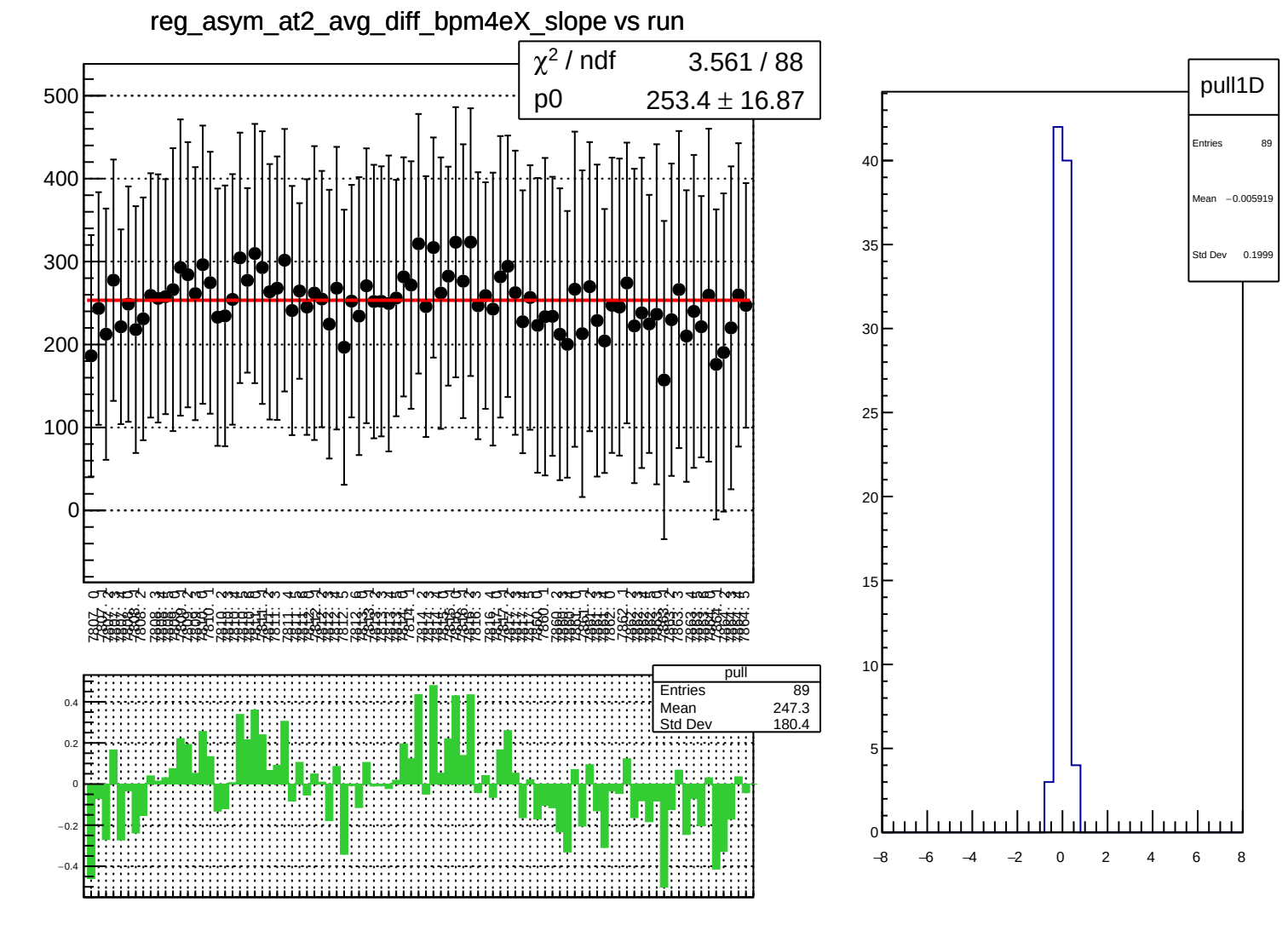

pull1D
Entries 89
Mean 0.000464
Std Dev 0.947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

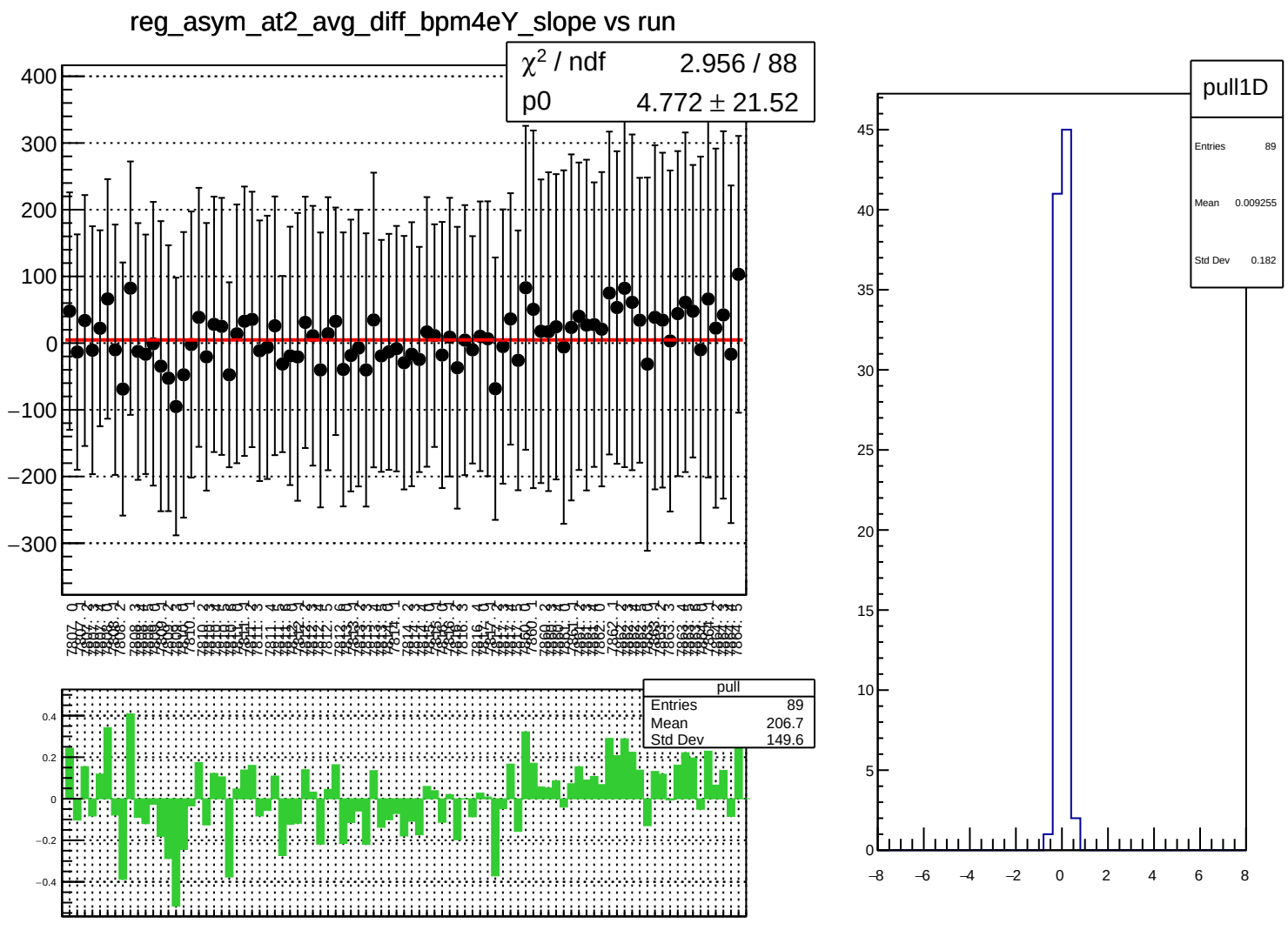

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 222.6 / 88
p0 29.29 ± 0.1031
pull
Entries 89
Mean 440.5
Std Dev 390.4
pull1D
Entries 89
Mean 0.077
Std Dev 1.58

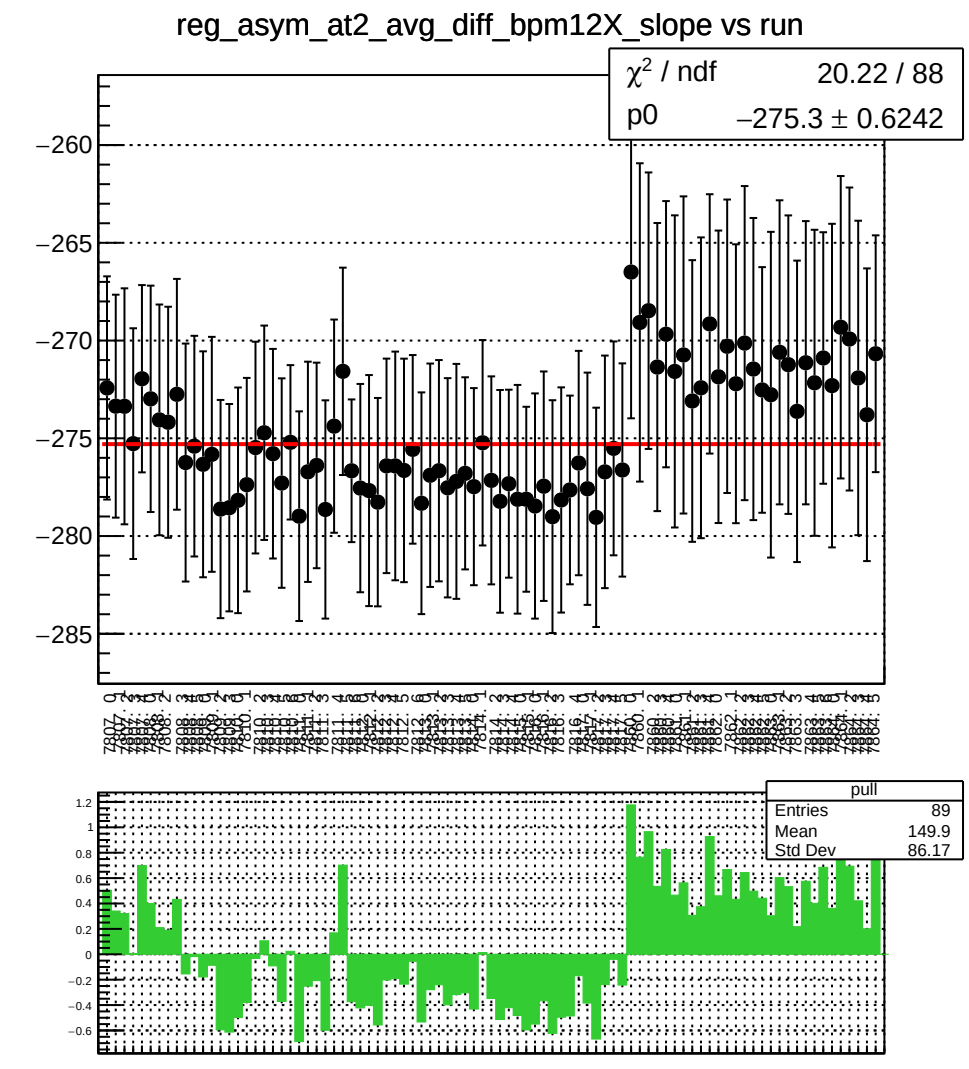

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.019 / 88
p0 −248.4 ± 18.63
pull
Entries 89
Mean 154.5
Std Dev 71.66

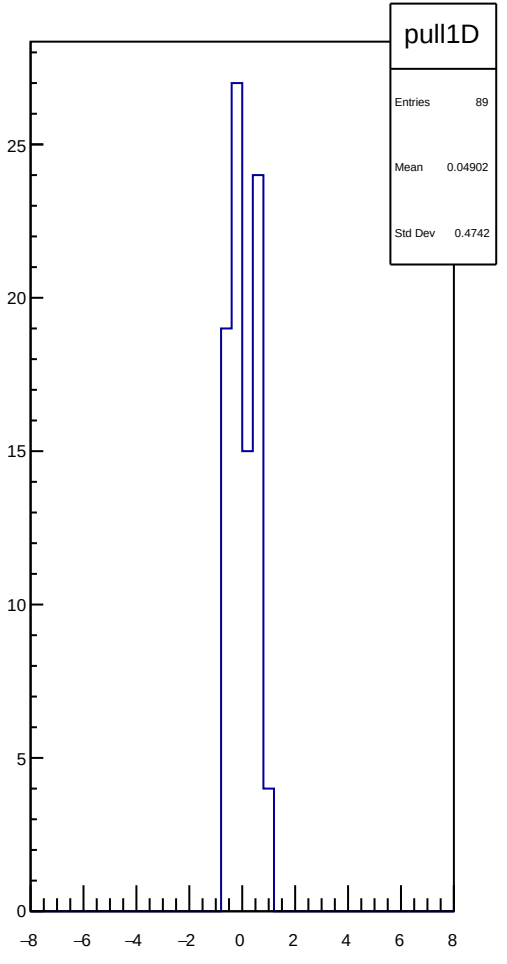

pull1D
Entries 89
Mean 0.005565
Std Dev 0.1841

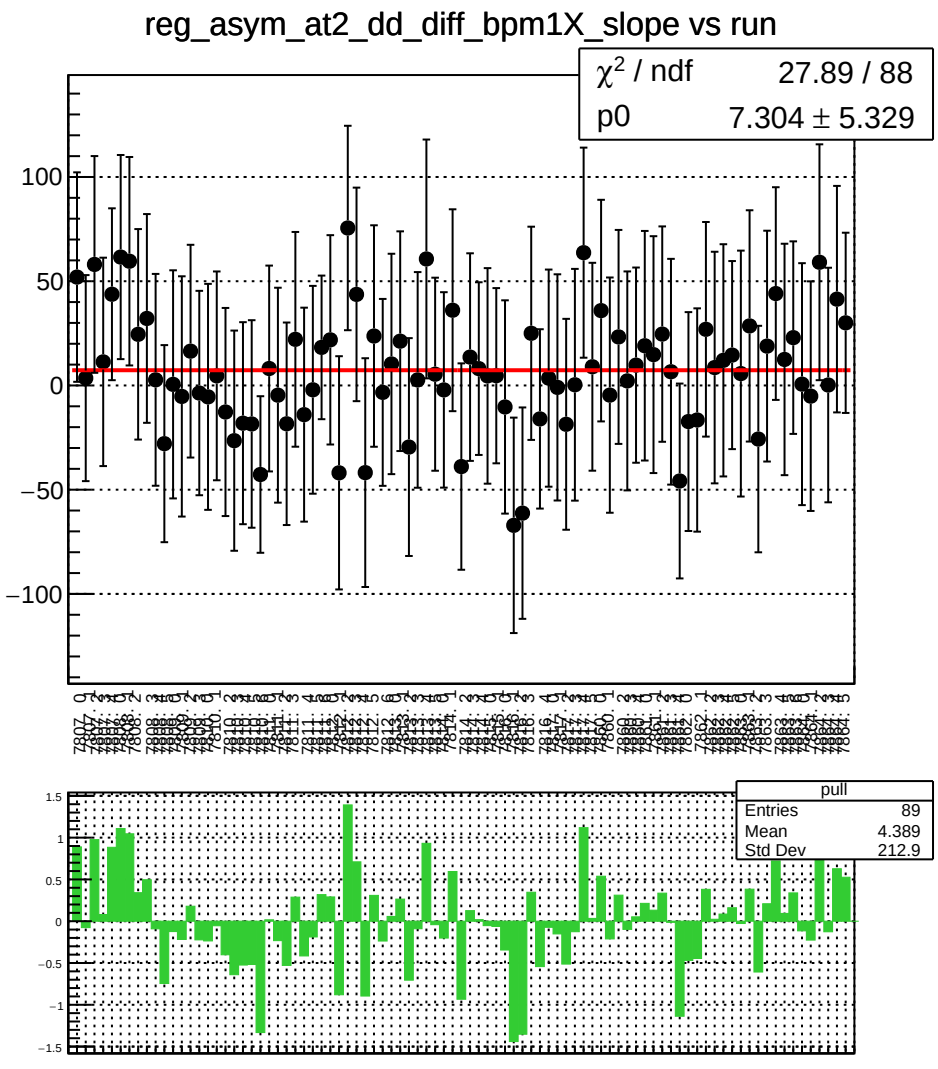

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.97 / 88
p0 108.6 ± 18.9
pull
Entries 89
Mean 224.4
Std Dev 169.2
pull1D
Entries 89
Mean −0.0175
Std Dev 0.2357

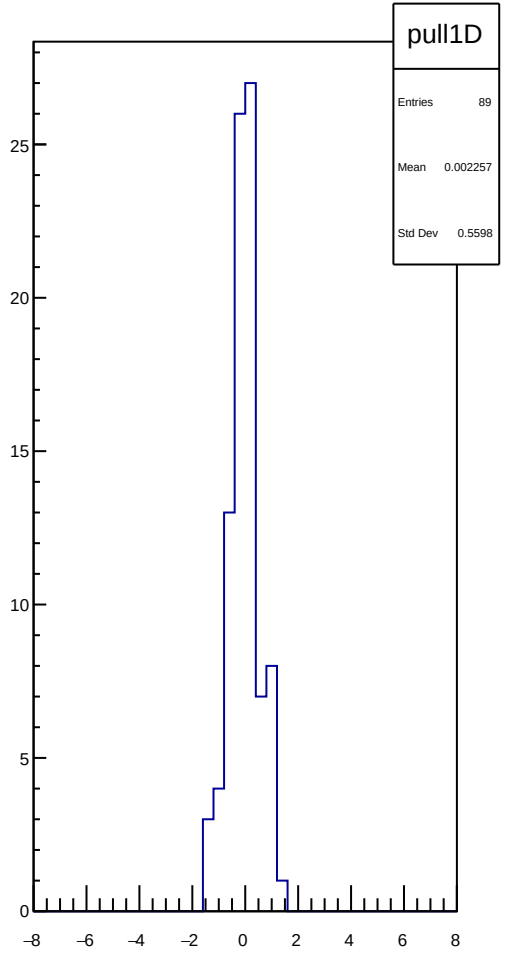

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.561 / 88
p0 253.4 ± 16.87
pull
Entries 89
Mean 247.3
Std Dev 180.4
pull1D
Entries 89
Mean −0.005919
Std Dev 0.1999

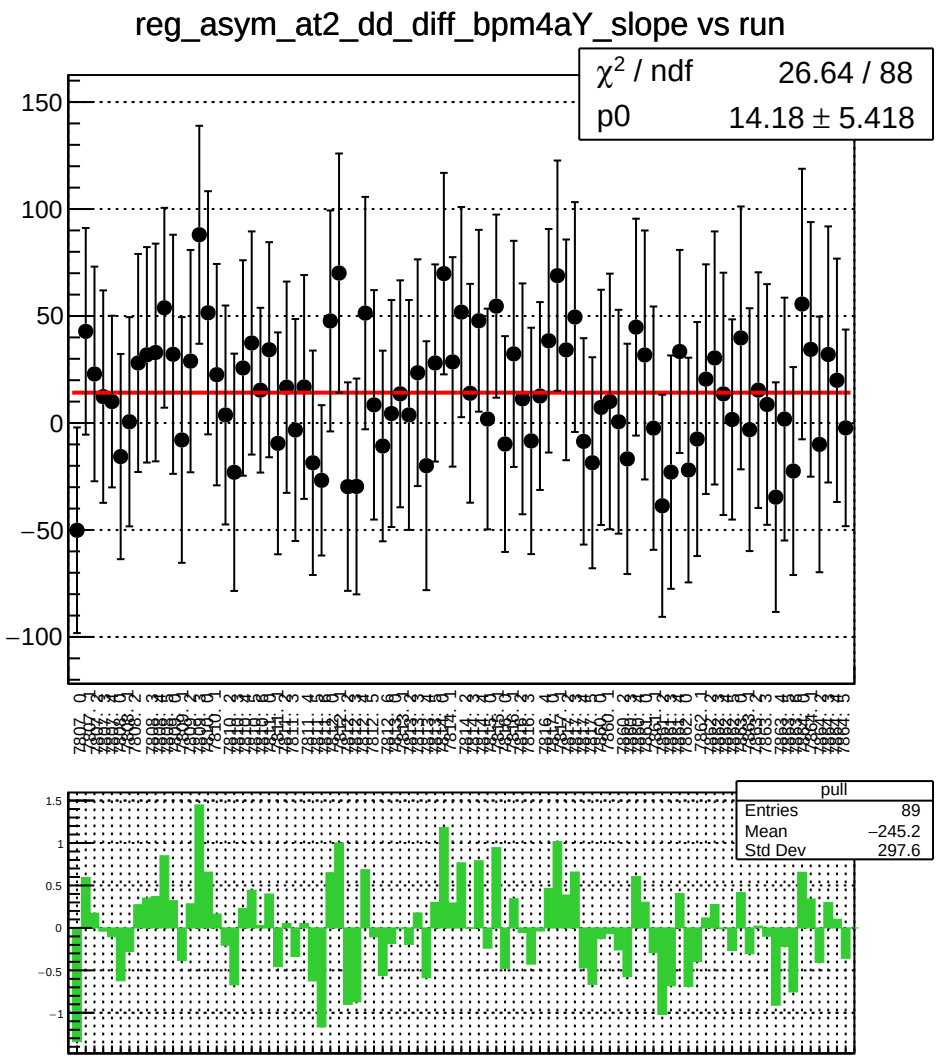

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.956 / 88
p0 4.772 ± 21.52
pull
Entries 89
Mean 206.7
Std Dev 149.6
pull1D
Entries 89
Mean 0.009255
Std Dev 0.182

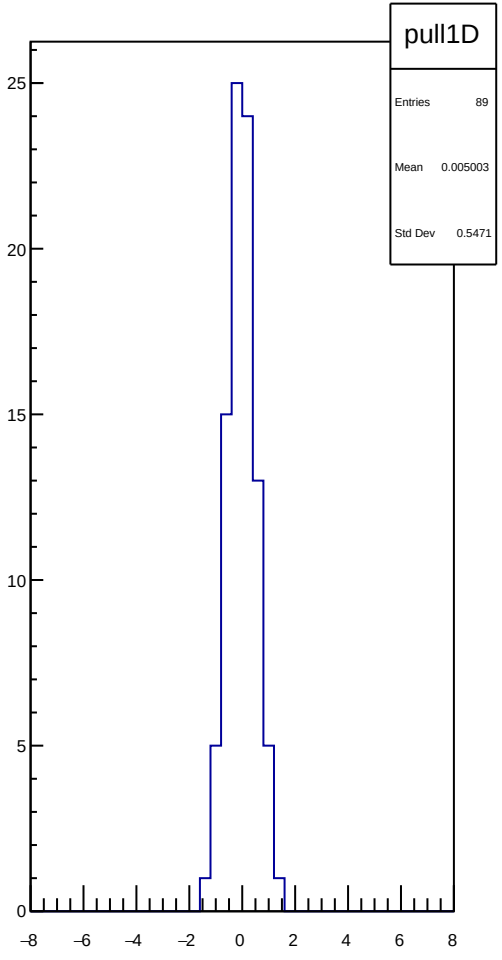

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 20.22 / 88
p0 −275.3 ± 0.6242
−260
−265
−270
−275
−280
−285
pull
Entries 89
Mean 149.9
Std Dev 86.17
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

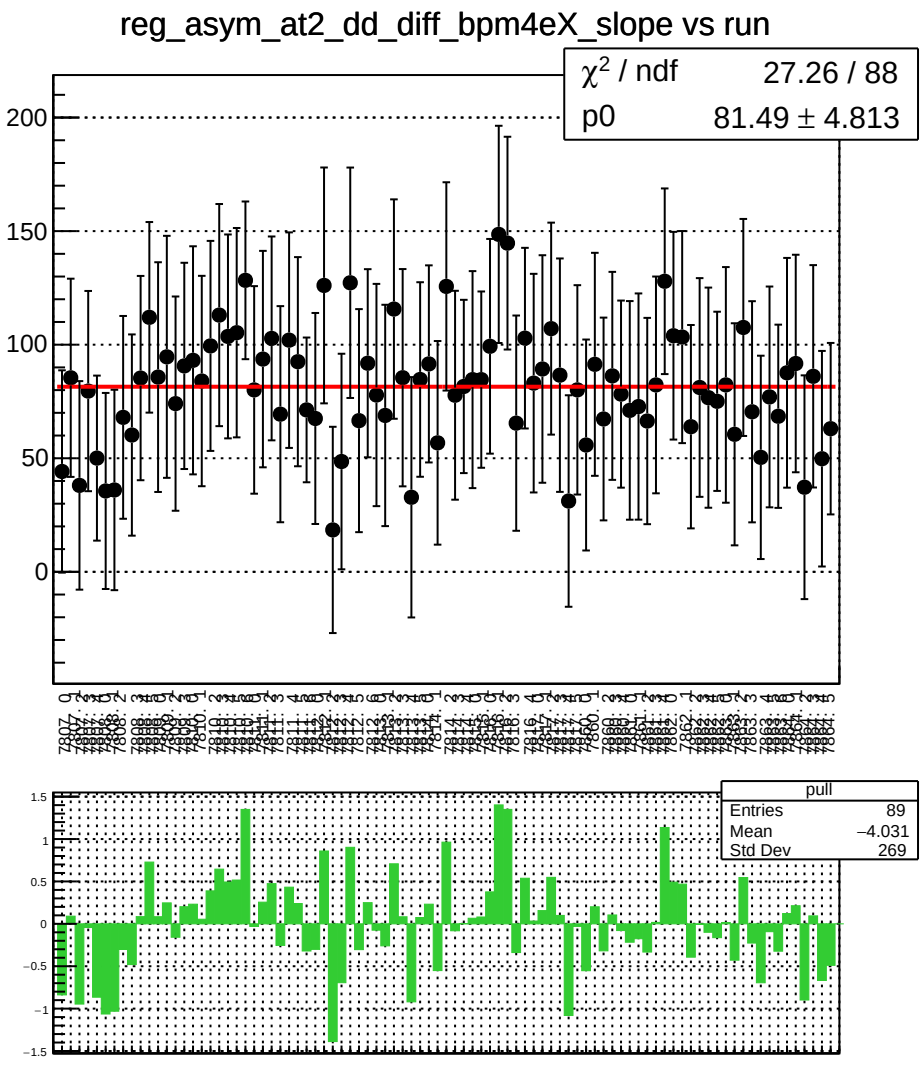

pull1D
Entries 89
Mean 0.04902
Std Dev 0.4742
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

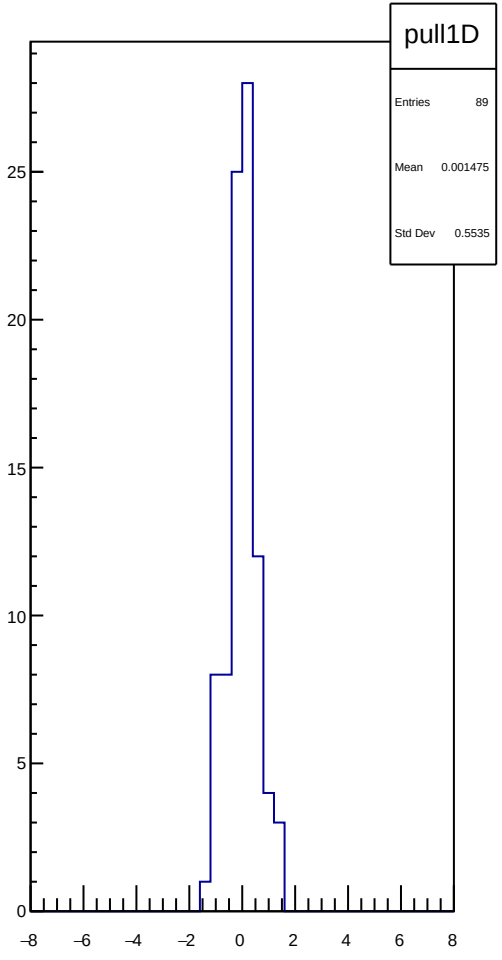

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 27.89 / 88
p0 7.304 ± 5.329
100
50
0
−50
−100
pull
Entries 89
Mean 4.389
Std Dev 212.9
1.5
1
0.5
0
−0.5
−1
−1.5

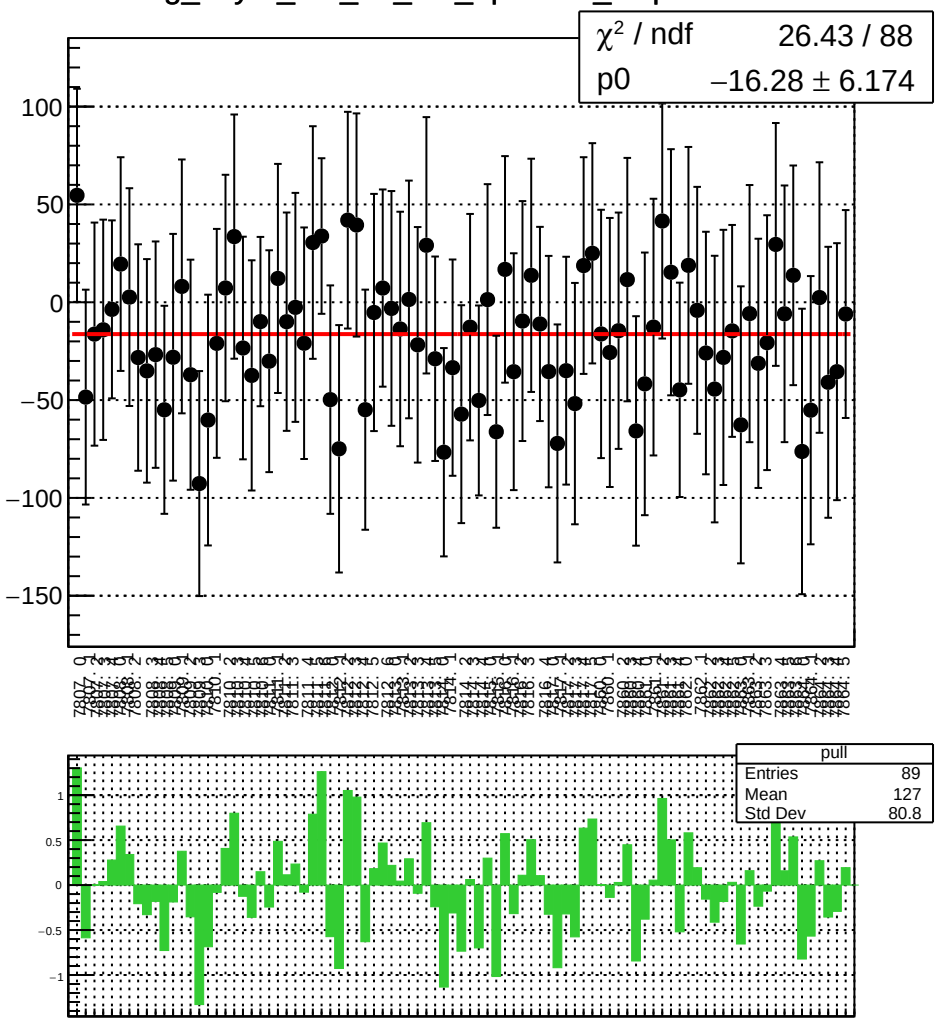

pull1D
Entries 89
Mean 0.002257
Std Dev 0.5598
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

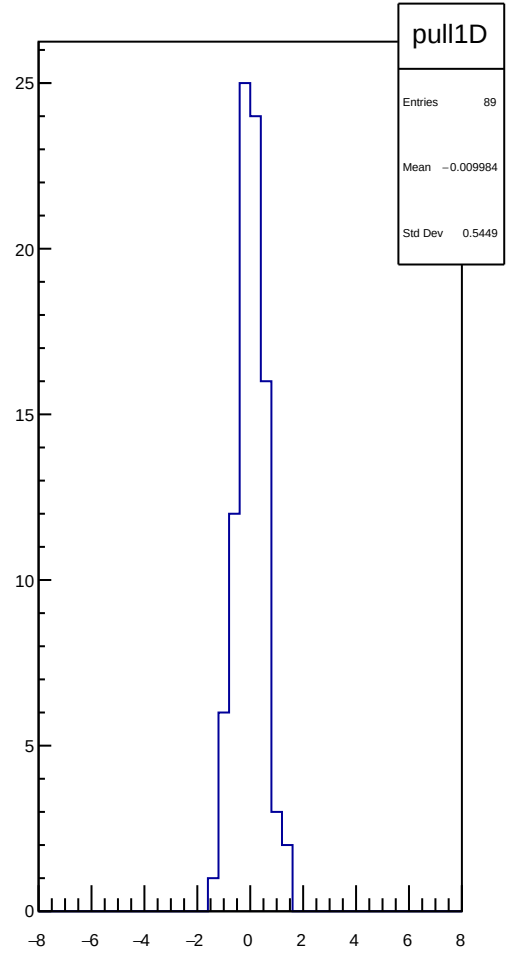

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.64 / 88
p0 14.18 ± 5.418
150
100
50
0
−50
−100
pull
Entries 89
Mean −245.2
Std Dev 297.6
1.5
1
0.5
0
−0.5
−1

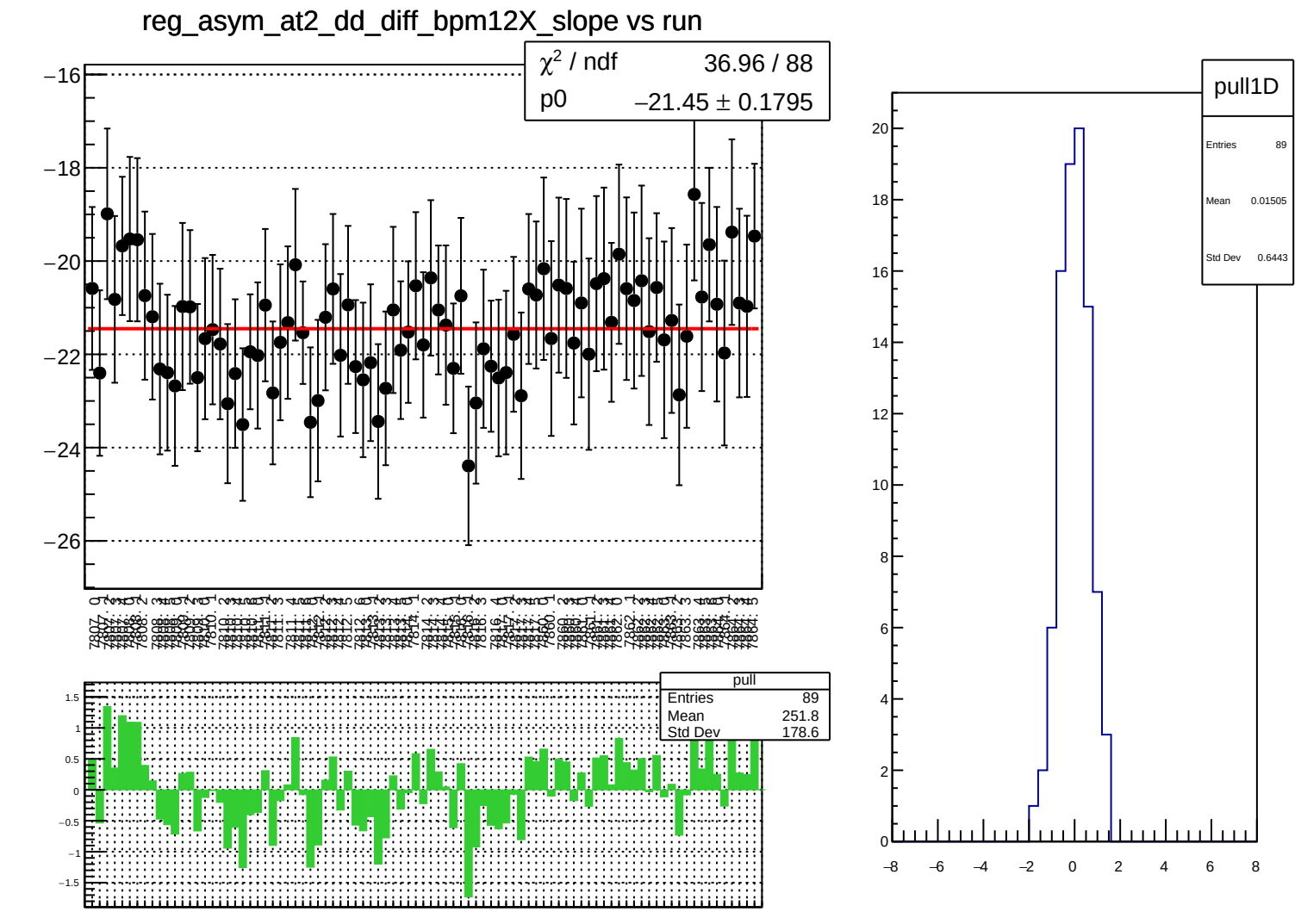

pull1D
Entries 89
Mean 0.005003
Std Dev 0.5471
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

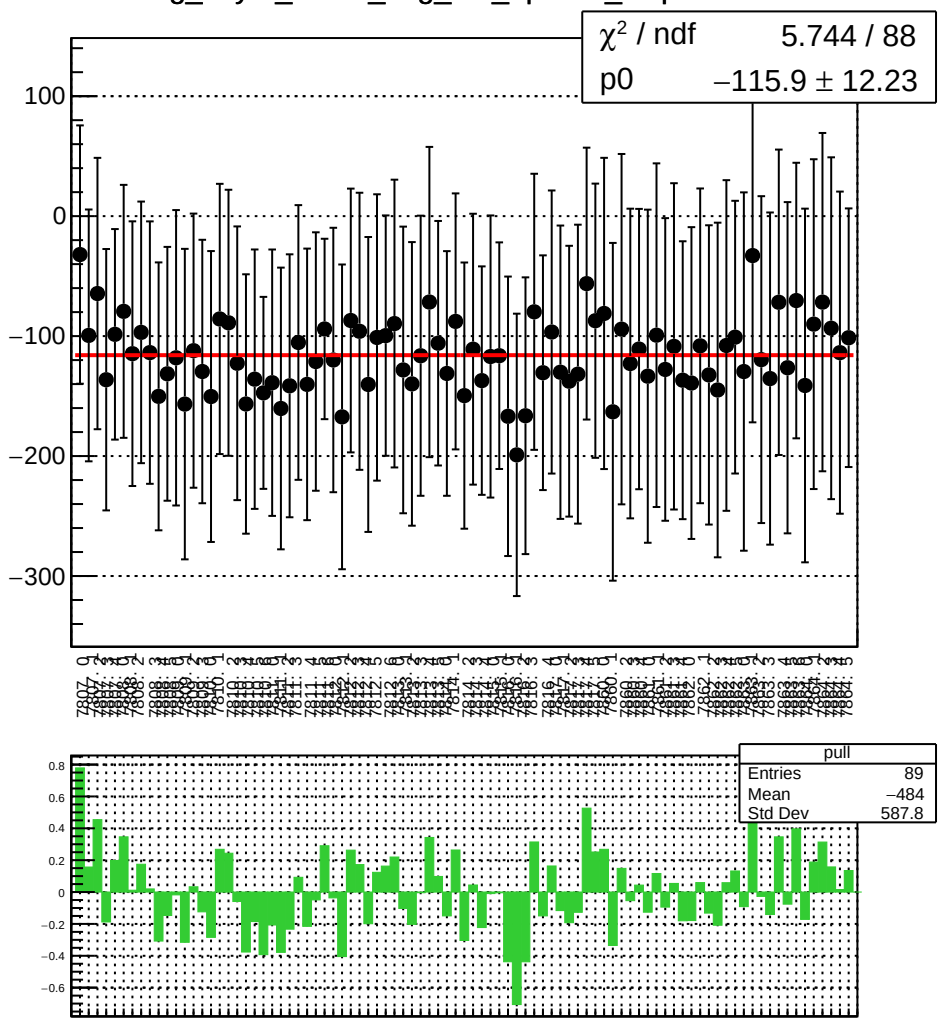

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.26 / 88
p0 81.49 ± 4.813
200
150
100
50
0
pull
Entries 89
Mean −4.031
Std Dev 269
1.5
1
0.5
0
−0.5
−1
−1.5

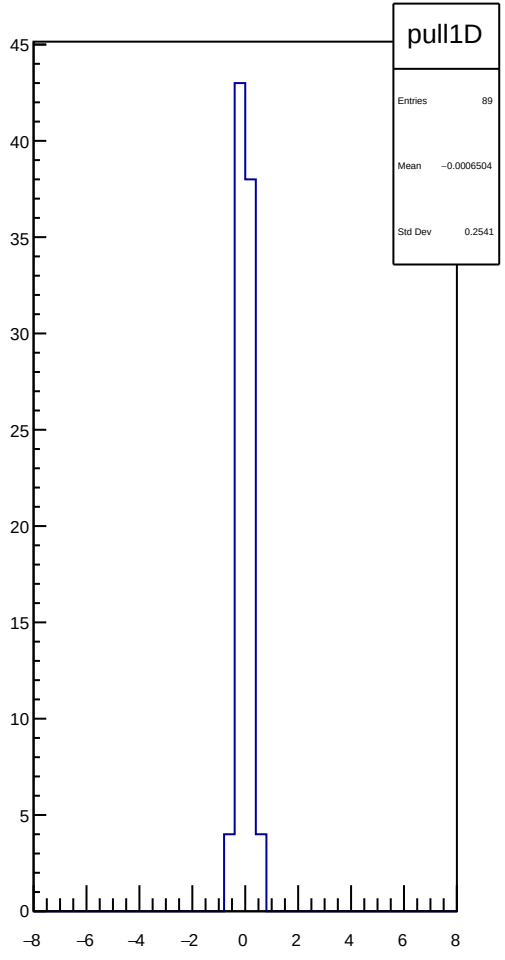

pull1D
Entries 89
Mean 0.001475
Std Dev 0.5535
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

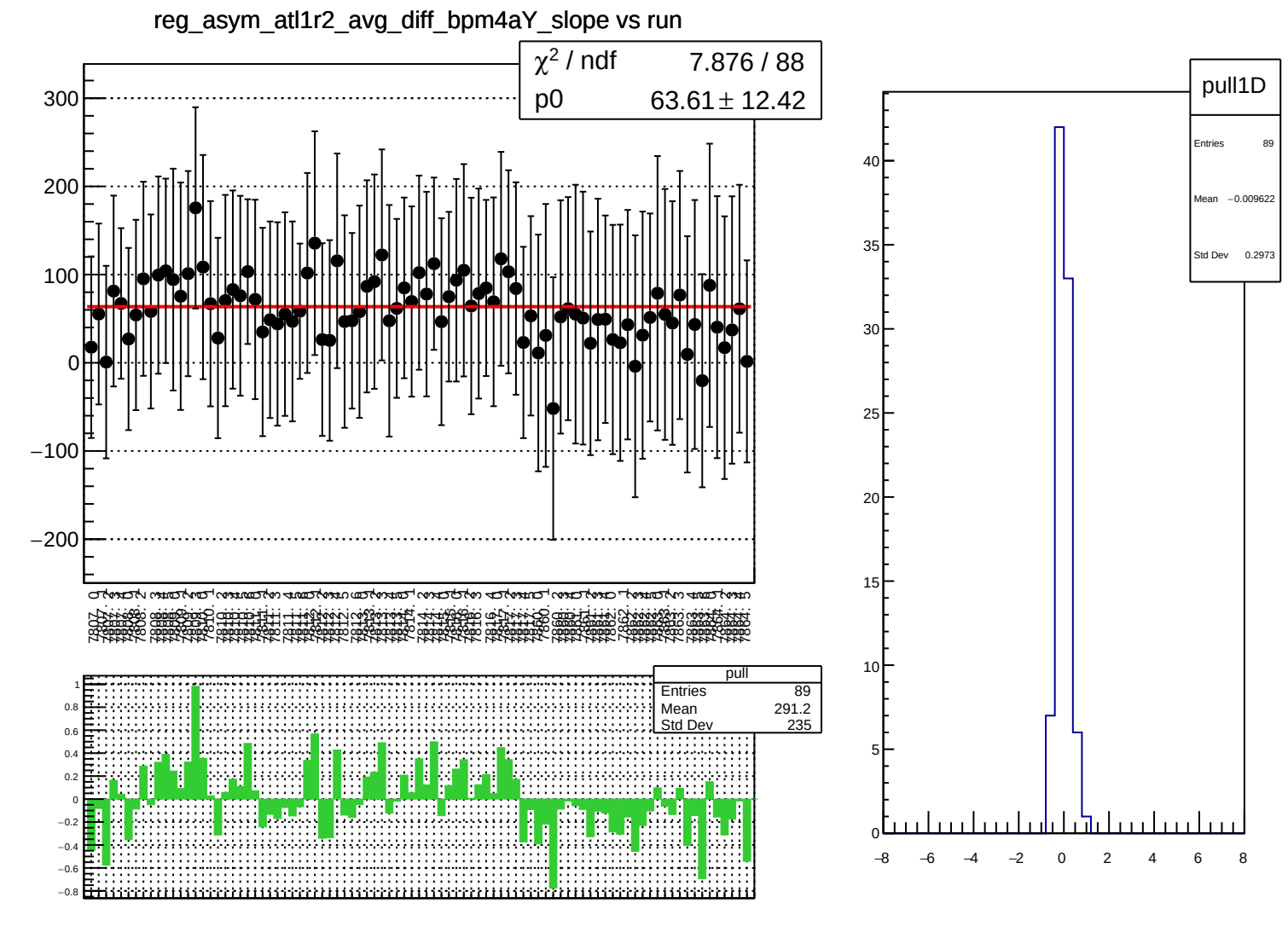

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.43 / 88
p0 −16.28 ± 6.174
100
50
0
−50
−100
−150
pull
Entries 89
Mean 127
Std Dev 80.8
1
0.5
0
−0.5
−1

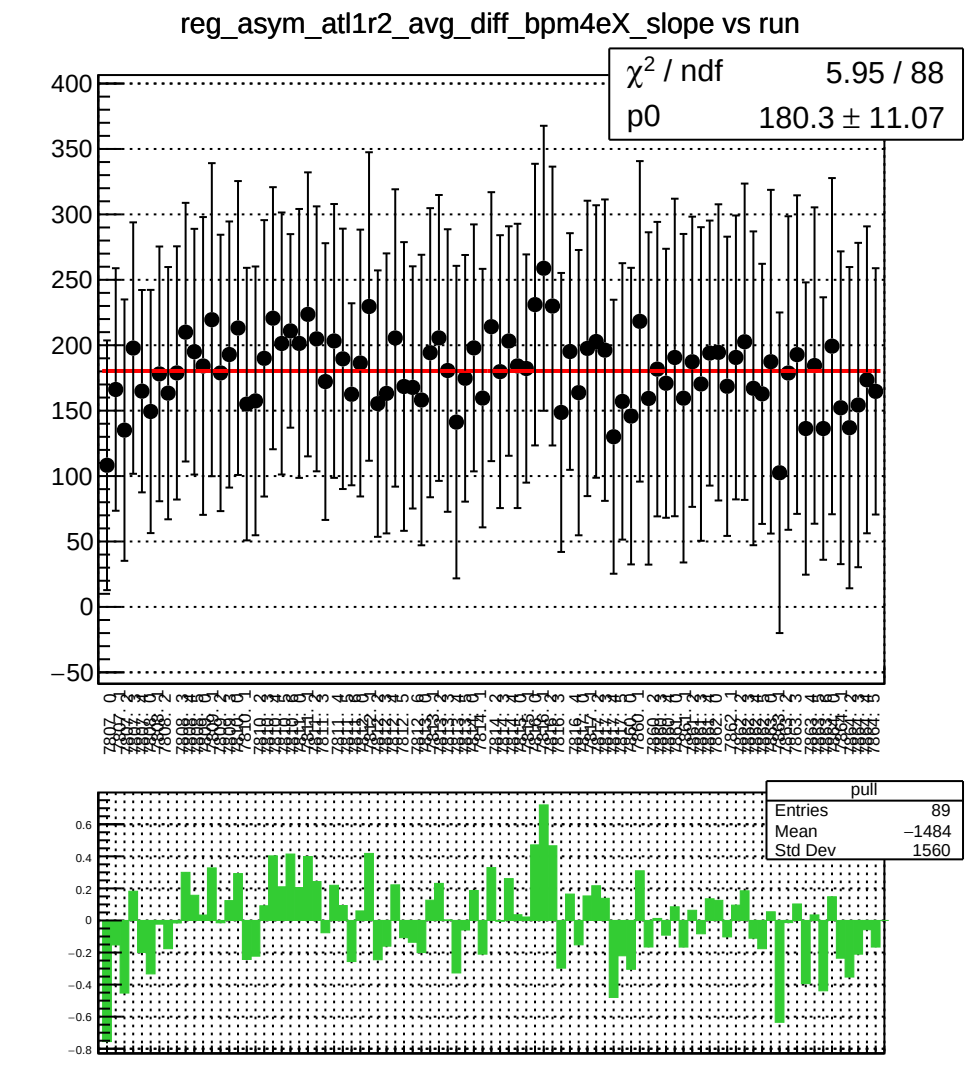

pull1D
Entries 89
Mean −0.009984
Std Dev 0.5449
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

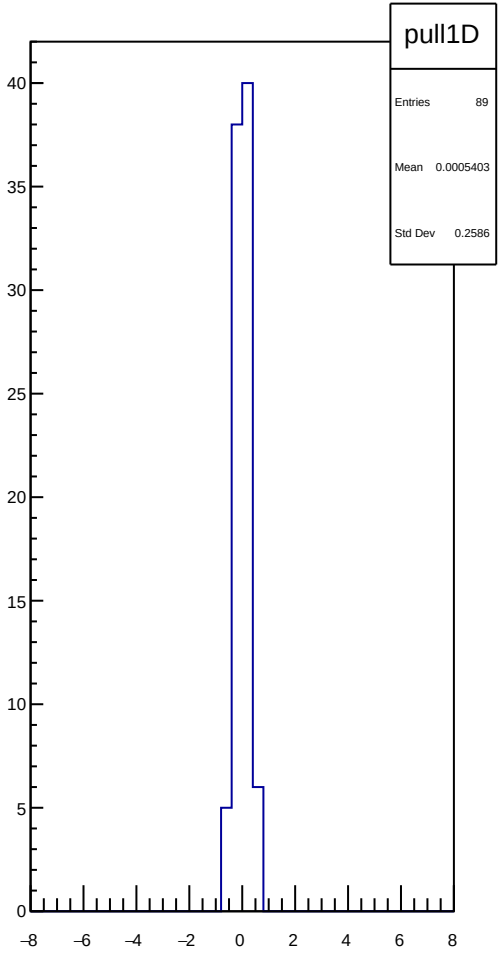

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 36.96 / 88
p0 −21.45 ± 0.1795
pull
Entries 89
Mean 251.8
Std Dev 178.6
pull1D
Entries 89
Mean 0.01505
Std Dev 0.6443

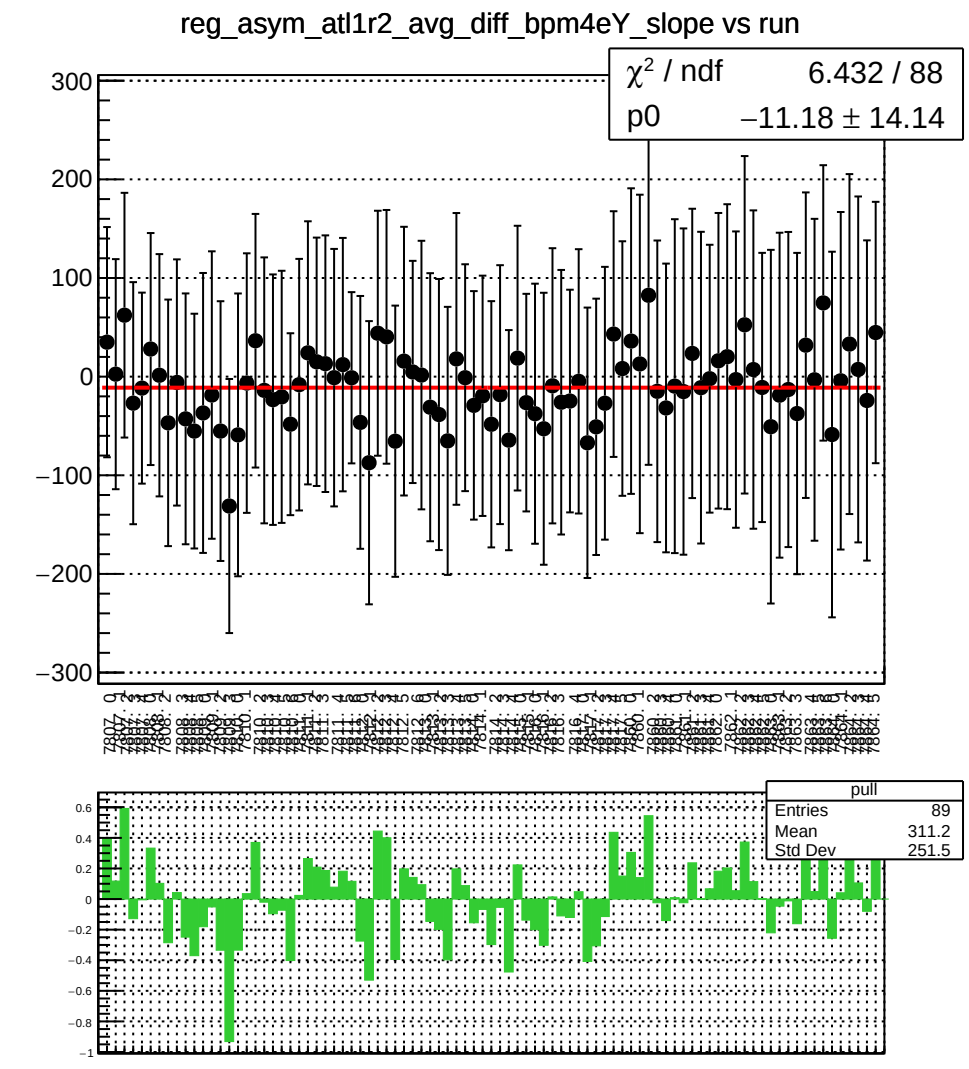

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 5.744 / 88
p0 −115.9 ± 12.23
100
0
−100
−200
−300
pull
Entries 89
Mean −484
Std Dev 587.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

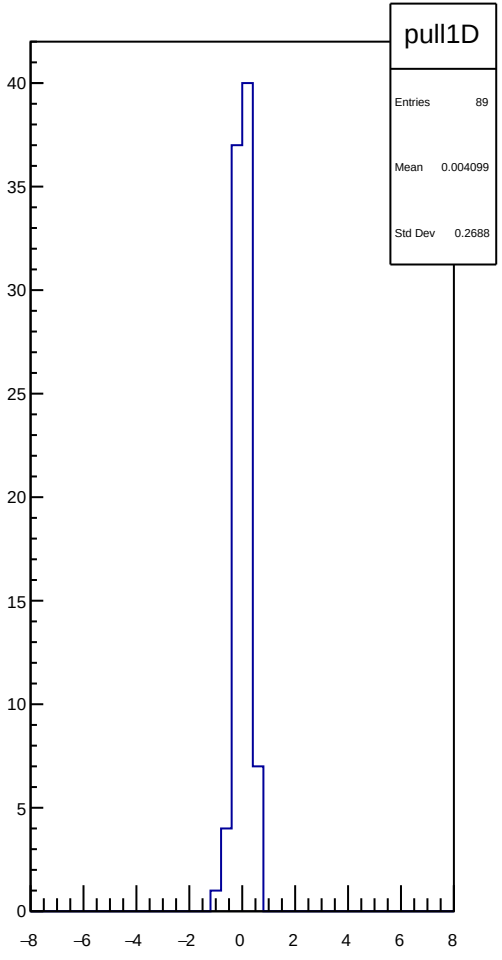

pull1D
Entries 89
Mean −0.0006504
Std Dev 0.2541
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

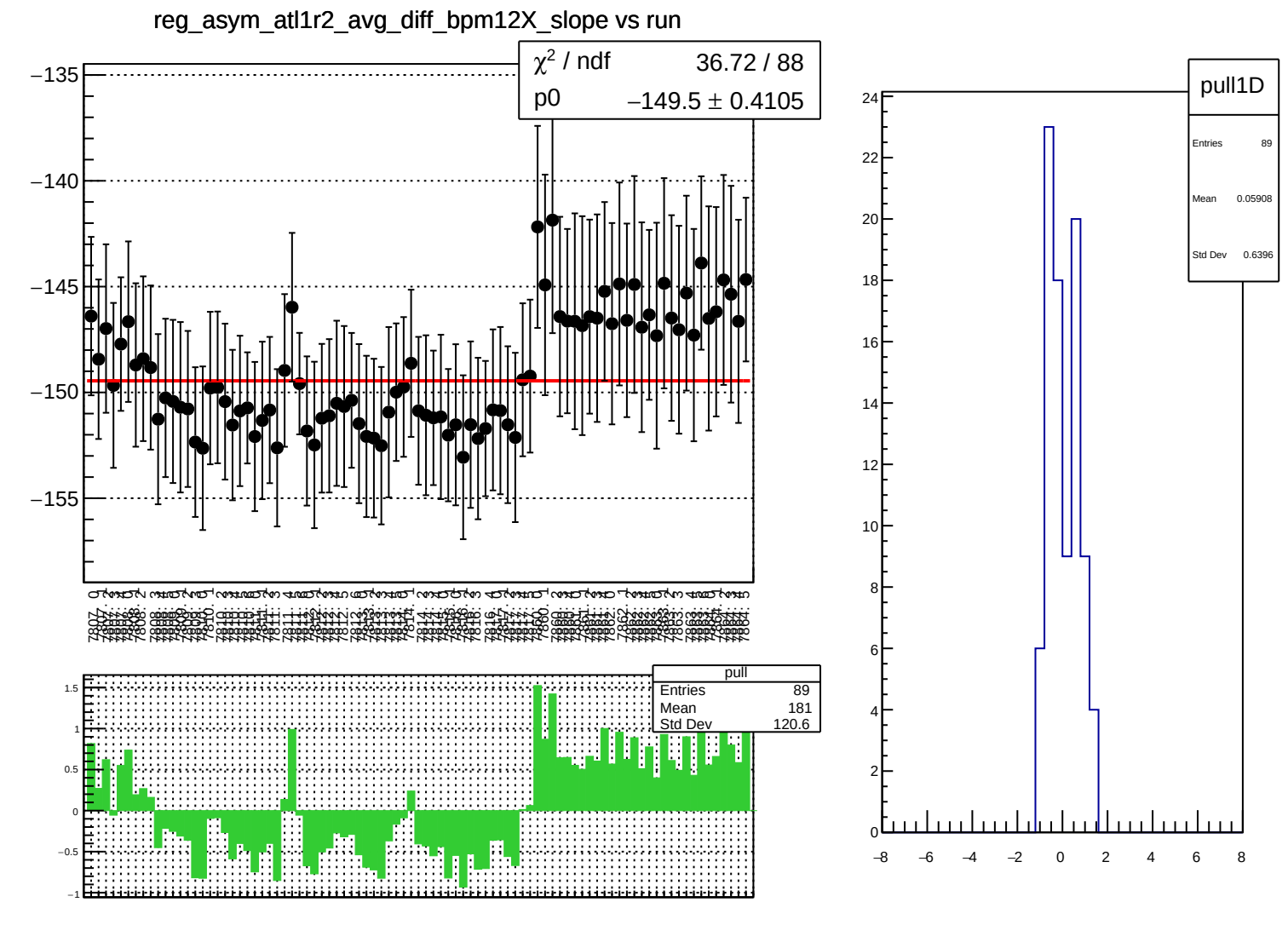

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.876 / 88
p0 63.61 ± 12.42
pull
Entries 89
Mean 291.2
Std Dev 235
pull1D
Entries 89
Mean −0.009622
Std Dev 0.2973

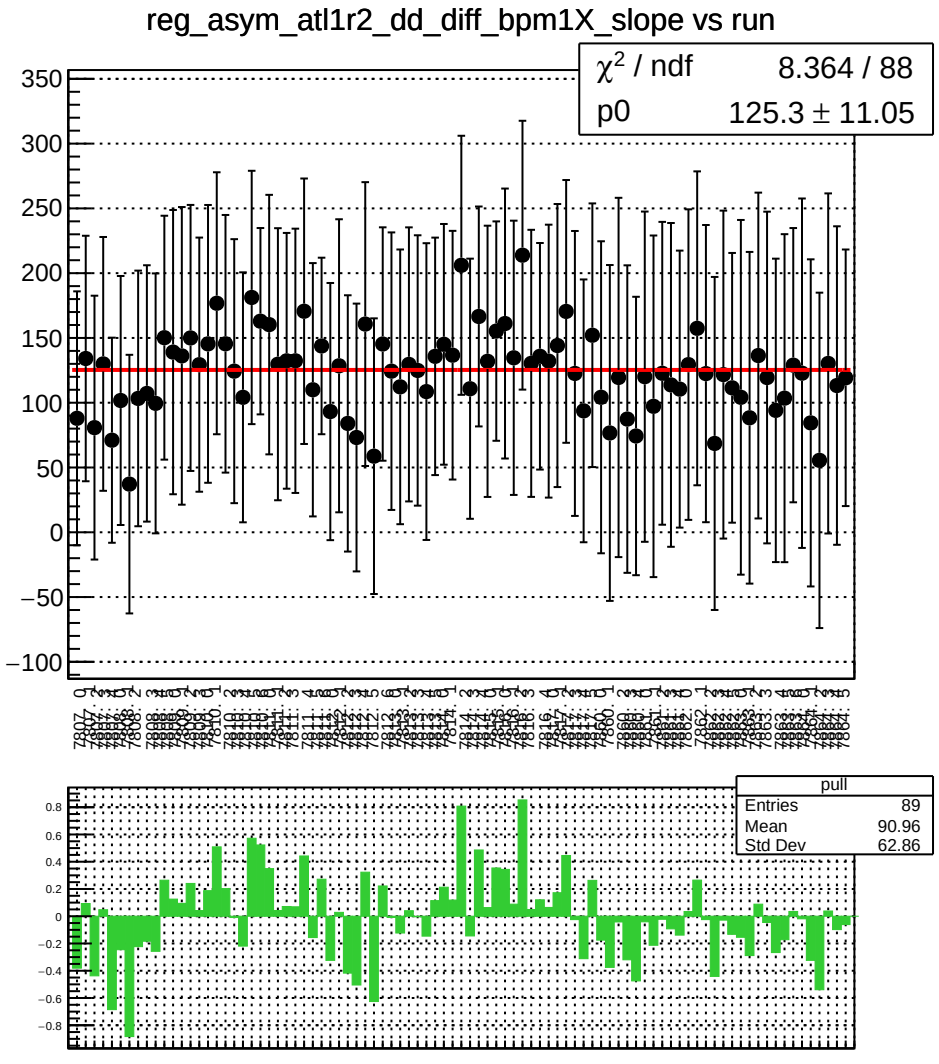

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.95 / 88
p0 180.3 ± 11.07
pull
Entries 89
Mean −1484
Std Dev 1560

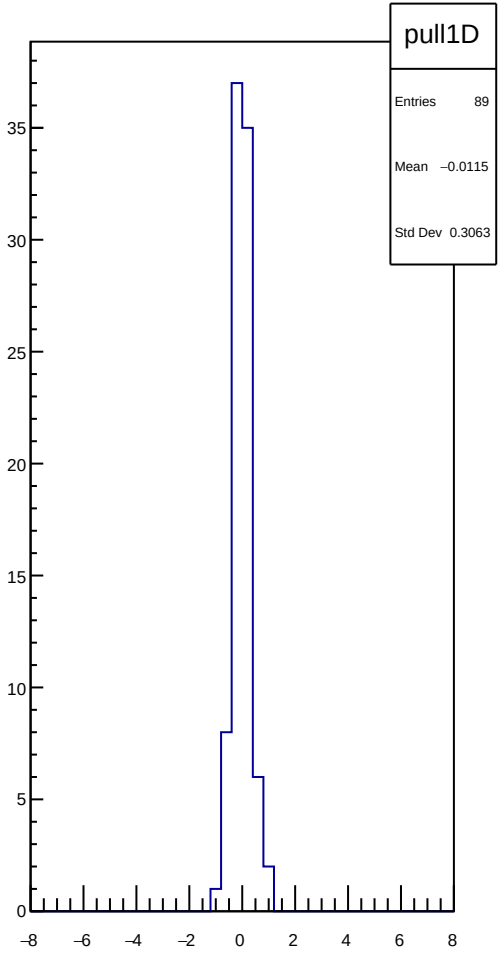

pull1D
Entries 89
Mean 0.0005403
Std Dev 0.2586

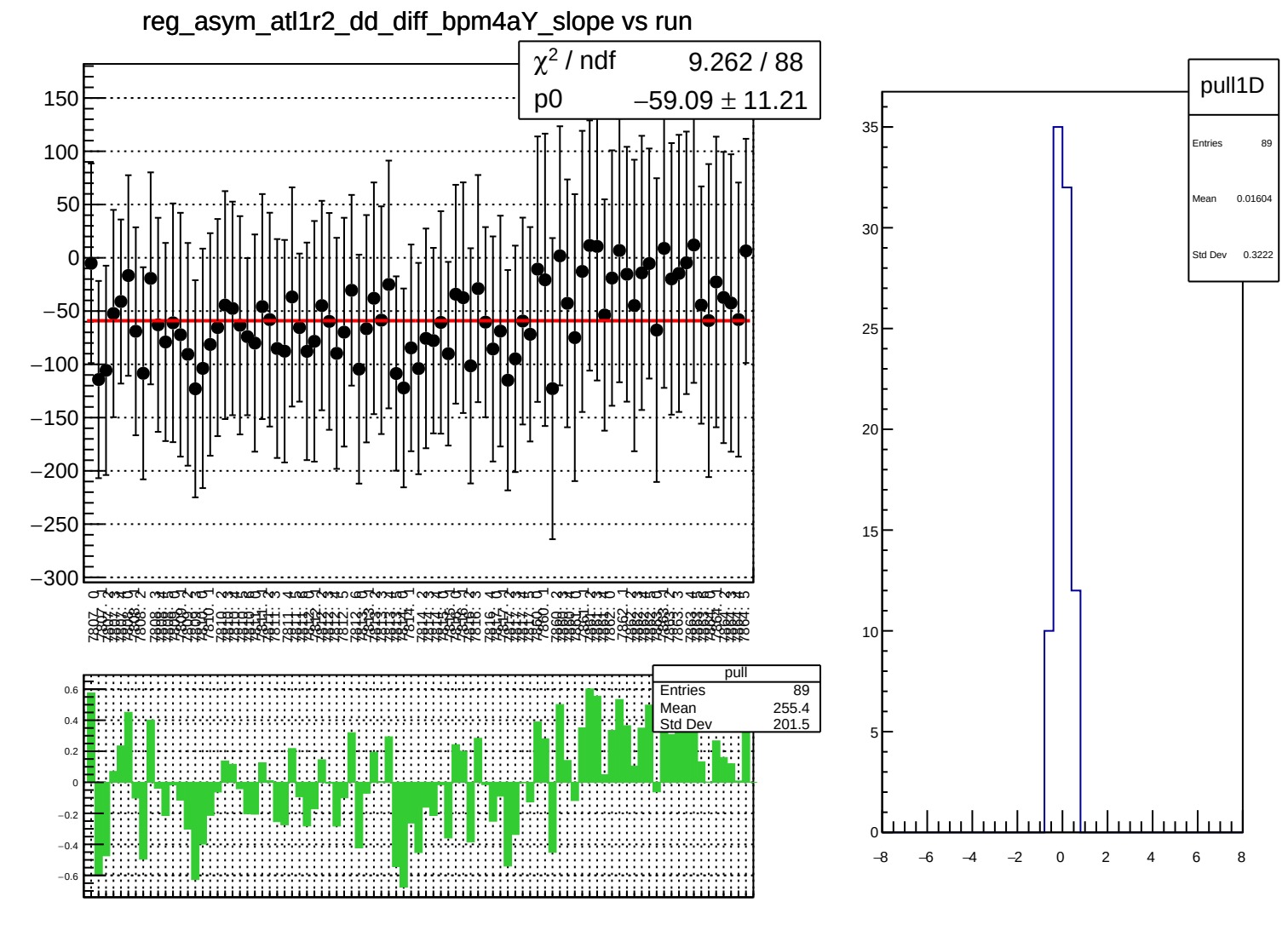

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.432 / 88
p0 −11.18 ± 14.14
pull
Entries 89
Mean 311.2
Std Dev 251.5

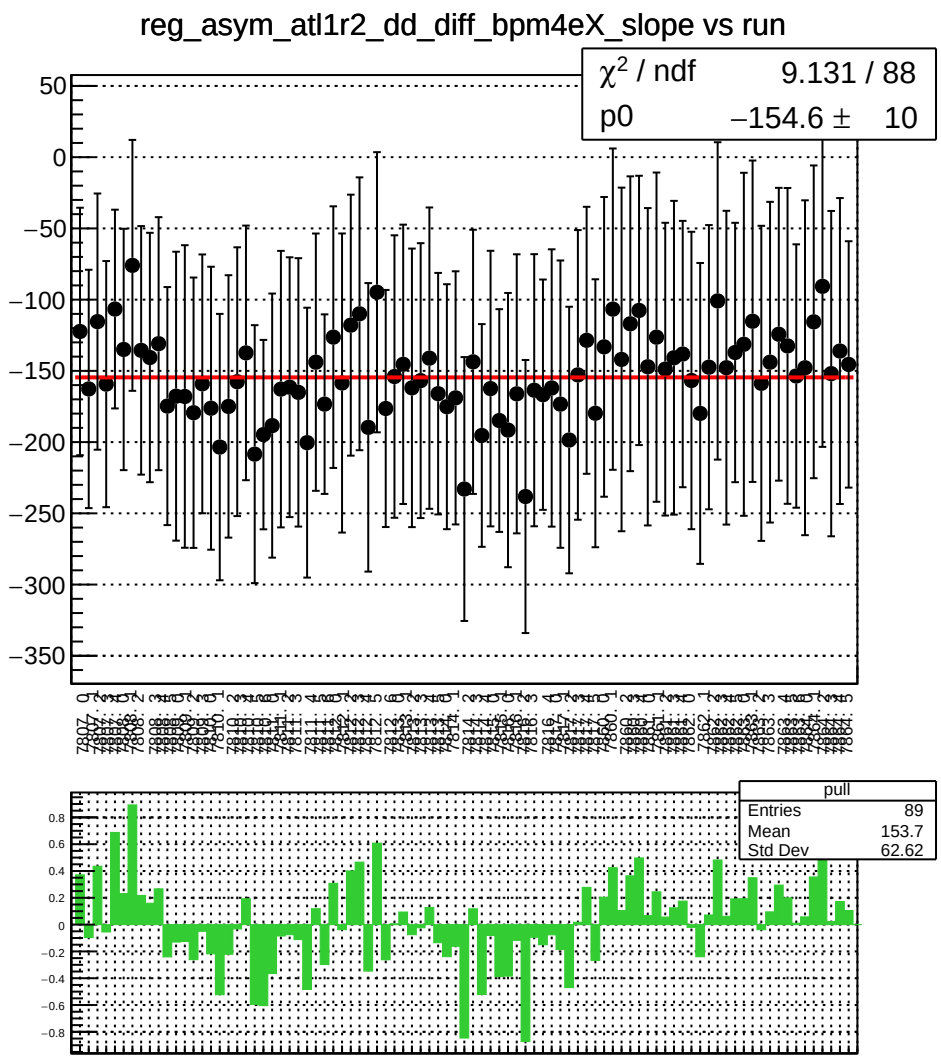

pull1D
Entries 89
Mean 0.004099
Std Dev 0.2688

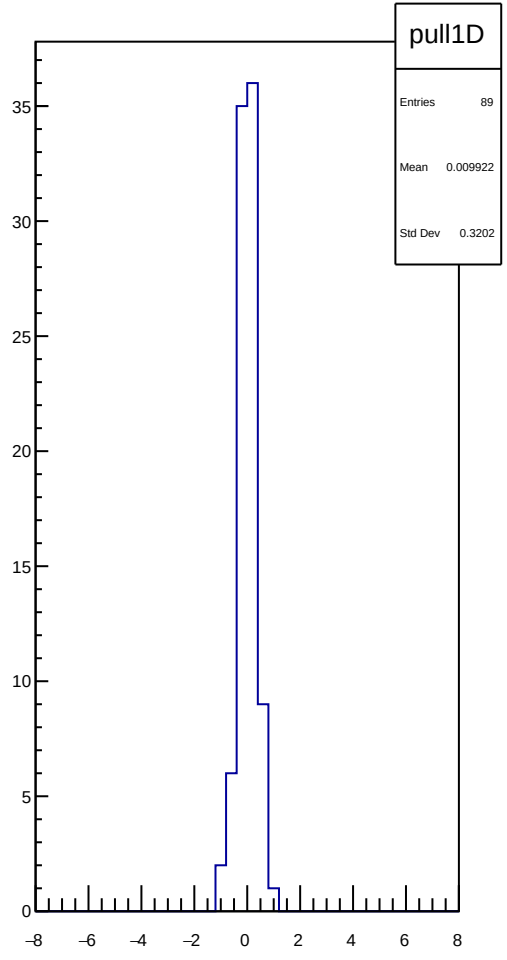

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 36.72 / 88
p0 −149.5 ± 0.4105
−135
−140
−145
−150
−155
pull
Entries 89
Mean 181
Std Dev 120.6
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.05908
Std Dev 0.6396
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

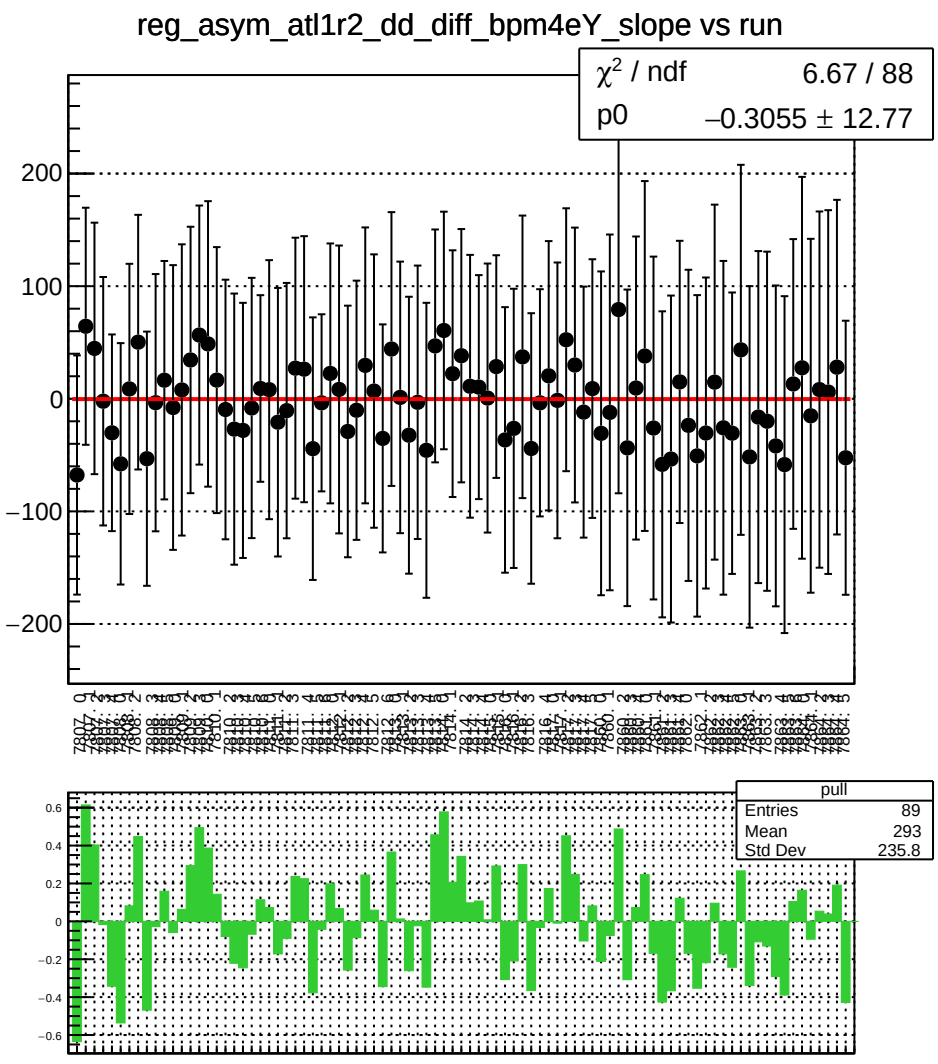

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 8.364 / 88
p0 125.3 ± 11.05
pull
Entries 89
Mean 90.96
Std Dev 62.86

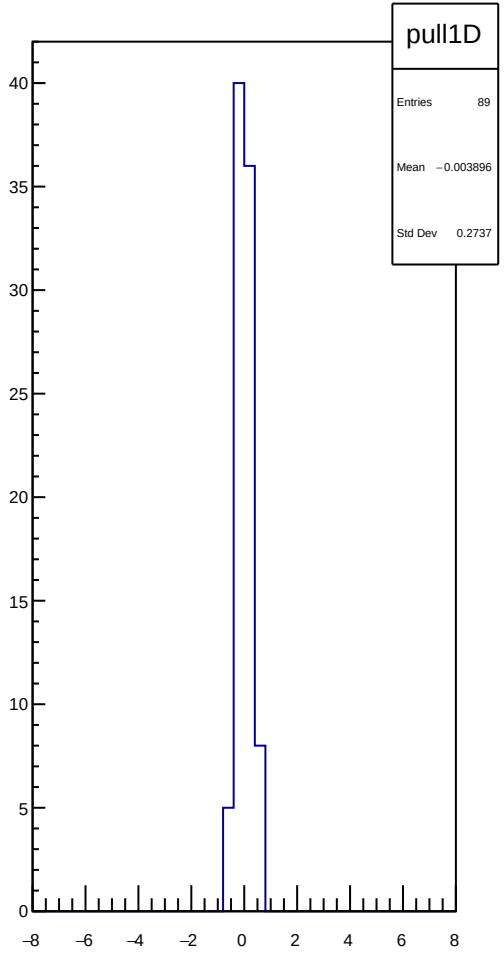

pull1D
Entries 89
Mean −0.0115
Std Dev 0.3063

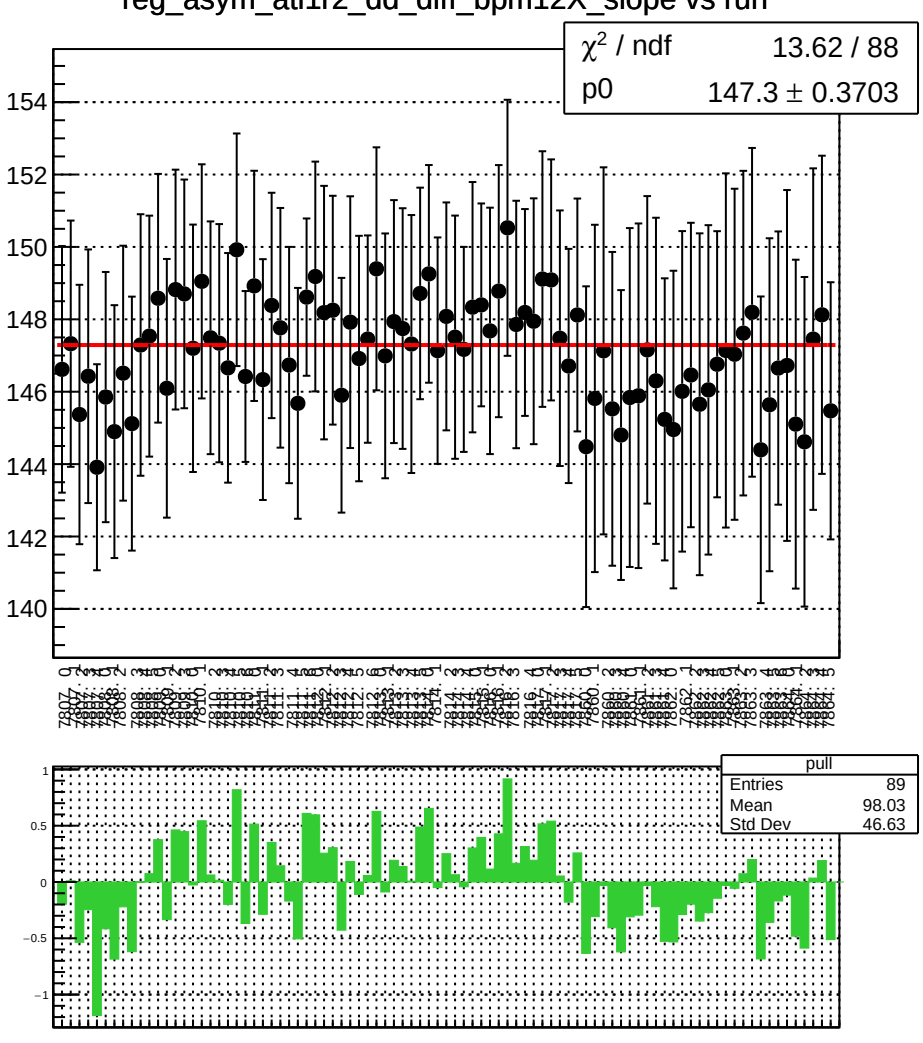

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.262 / 88
p0 −59.09 ± 11.21
pull
Entries 89
Mean 255.4
Std Dev 201.5
pull1D
Entries 89
Mean 0.01604
Std Dev 0.3222

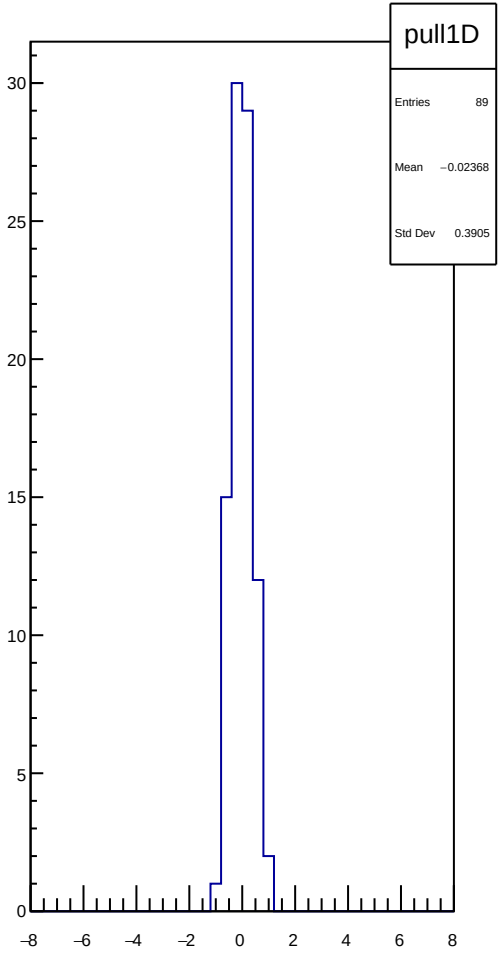

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.131 / 88
p0 −154.6 ± 10
pull
Entries 89
Mean 153.7
Std Dev 62.62

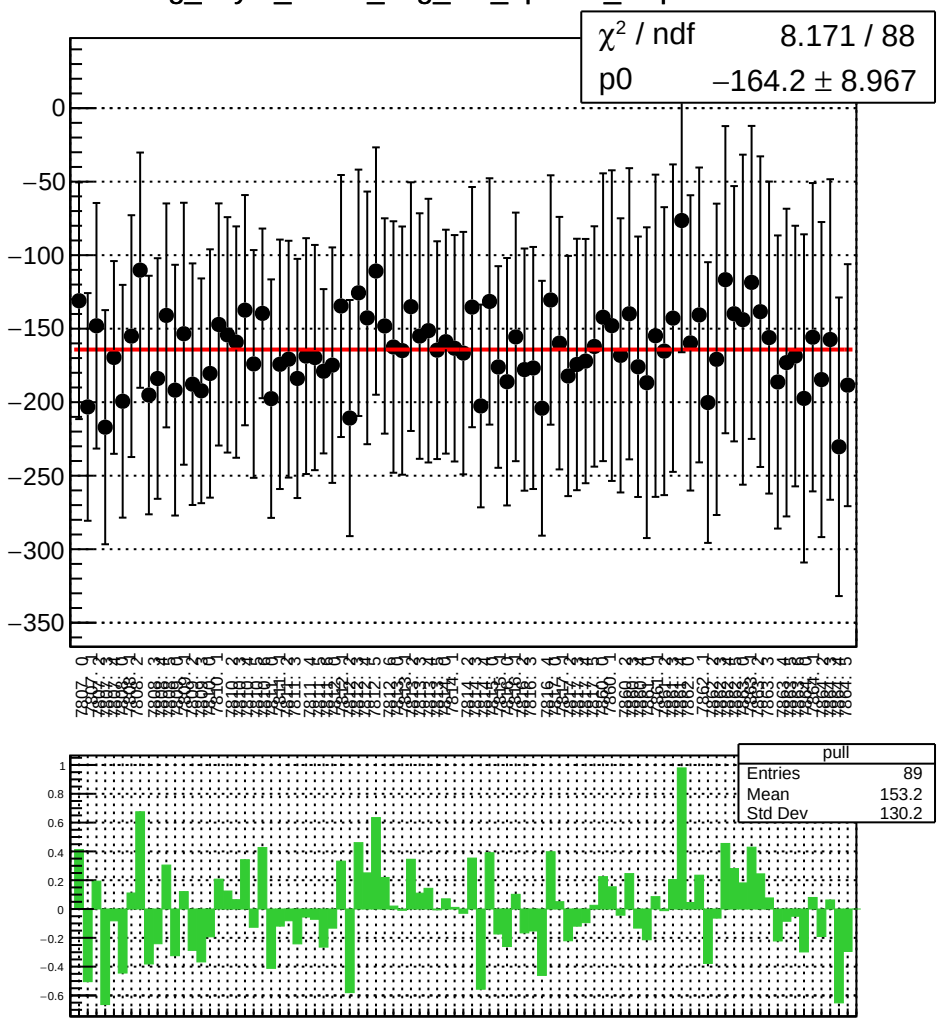

pull1D
Entries 89
Mean 0.009922
Std Dev 0.3202

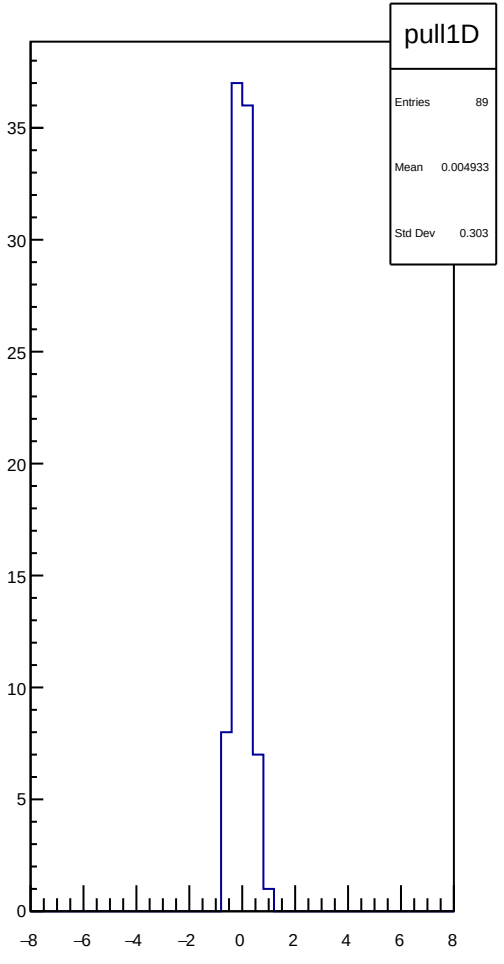

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.67 / 88
p0 −0.3055 ± 12.77
200
100
0
−100
−200
pull
Entries 89
Mean 293
Std Dev 235.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

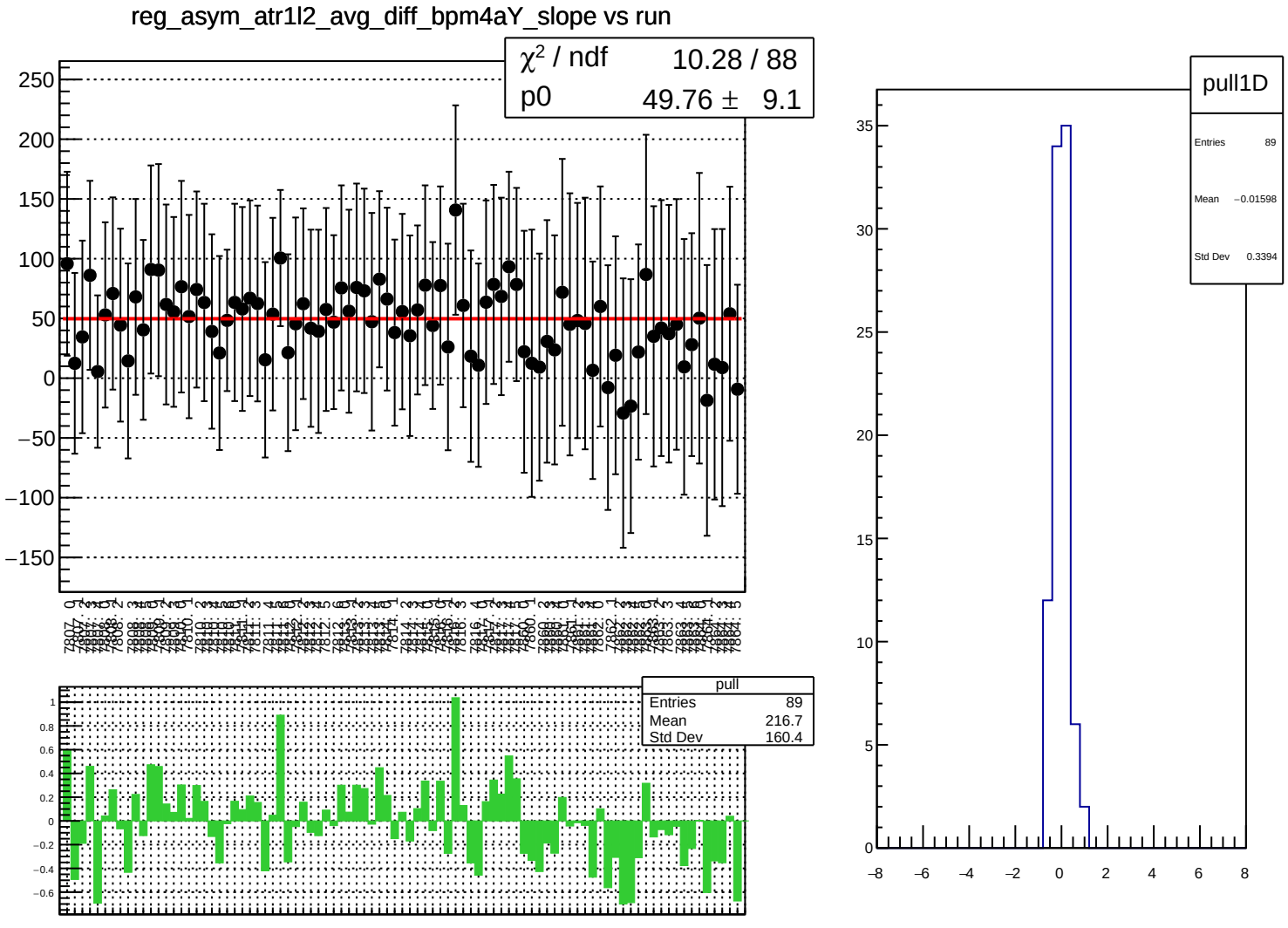

pull1D
Entries 89
Mean −0.003896
Std Dev 0.2737
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

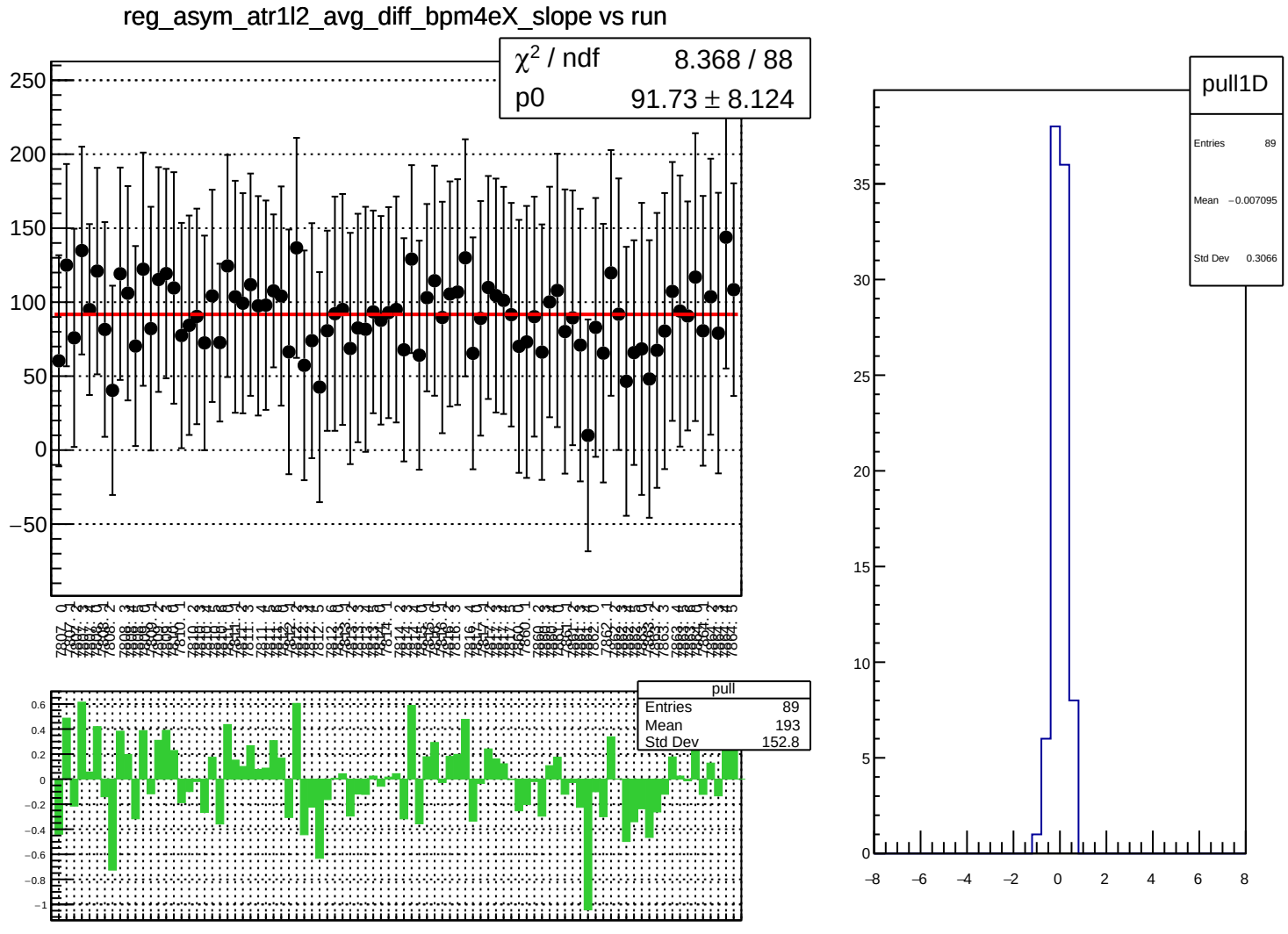

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 13.62 / 88
p0 147.3 ± 0.3703
154
152
150
148
146
144
142
140
pull
Entries 89
Mean 98.03
Std Dev 46.63
1
0.5
0
−0.5
−1

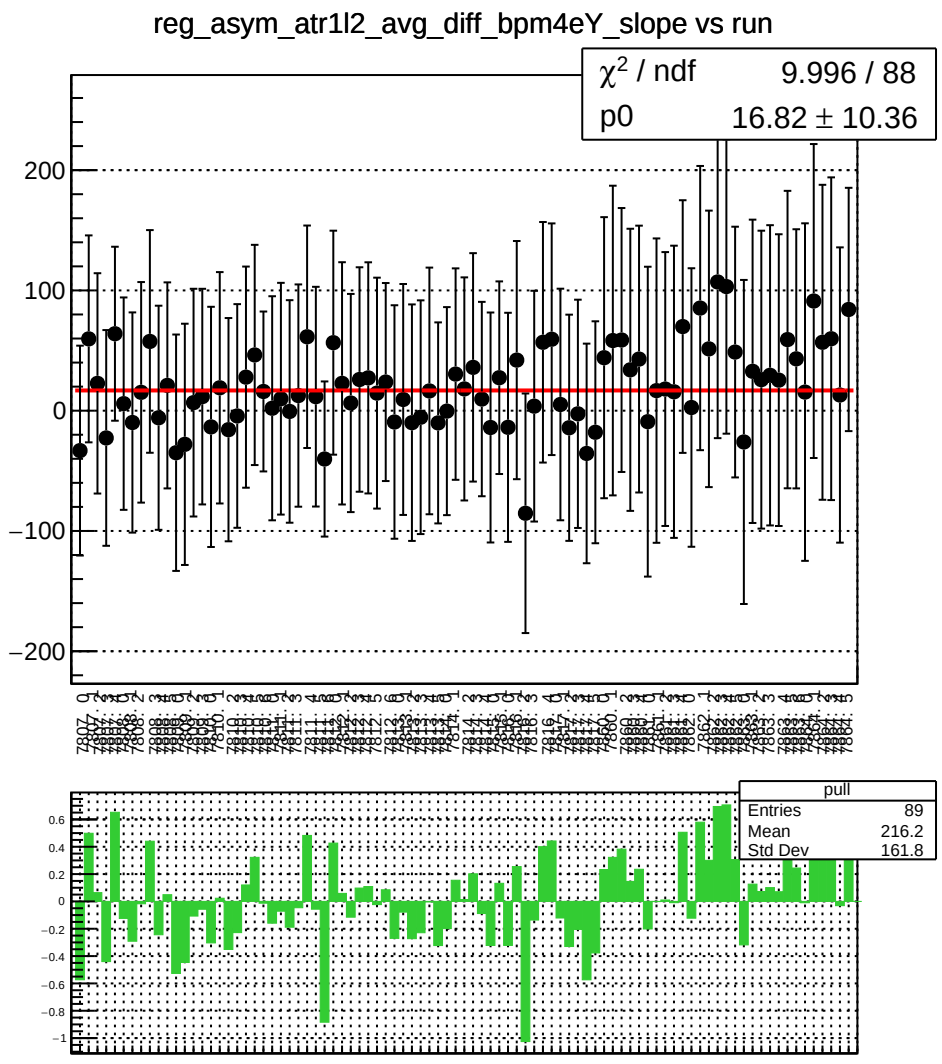

pull1D
Entries 89
Mean −0.02368
Std Dev 0.3905
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

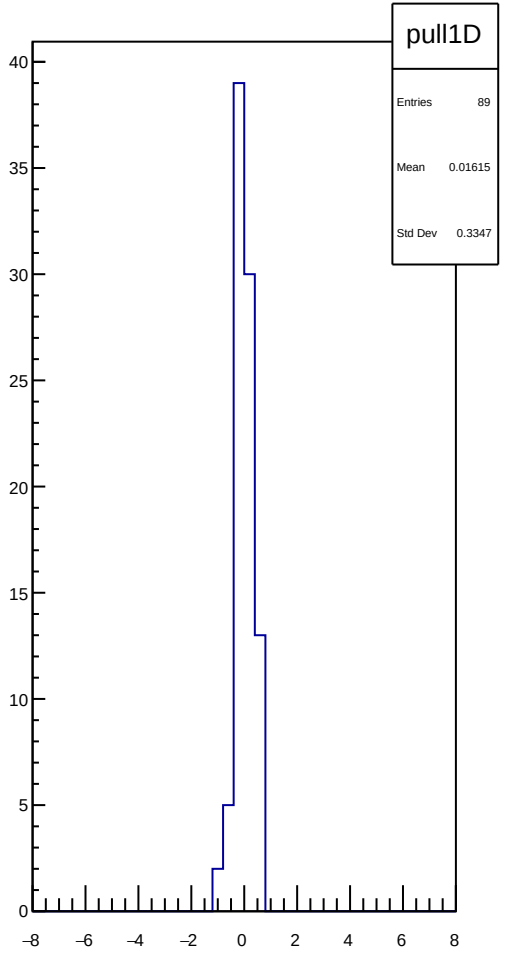

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 8.171 / 88
p0 −164.2 ± 8.967
pull
Entries 89
Mean 153.2
Std Dev 130.2

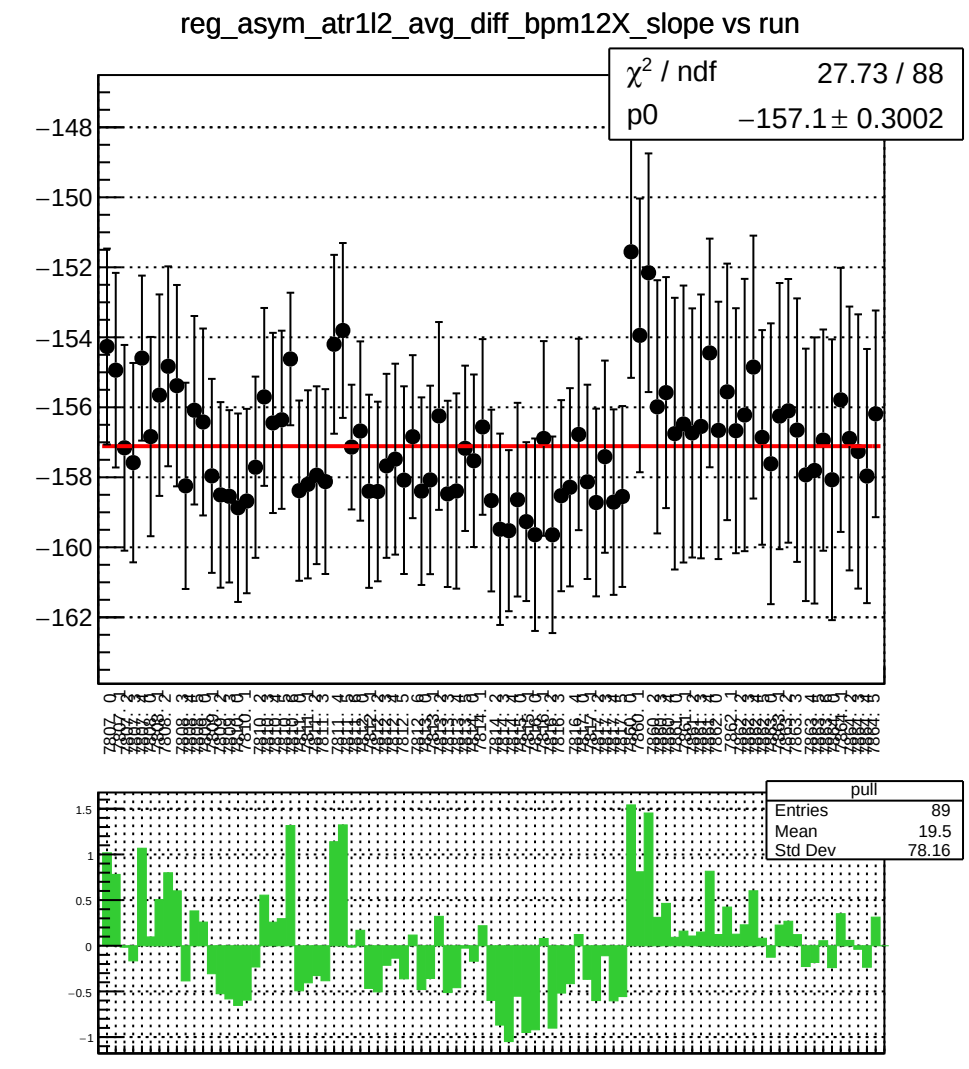

pull1D
Entries 89
Mean 0.004933
Std Dev 0.303

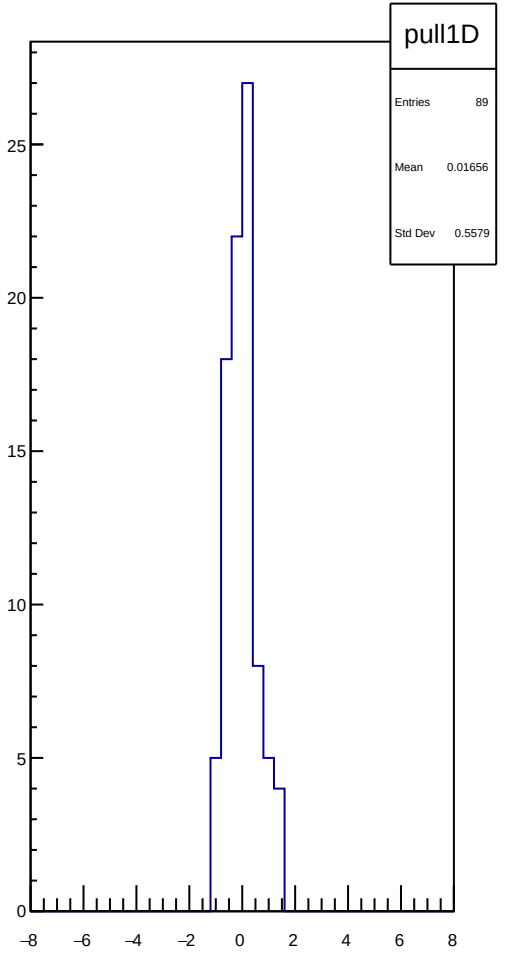

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.28 / 88
p0 49.76 ± 9.1
pull
Entries 89
Mean 216.7
Std Dev 160.4
pull1D
Entries 89
Mean −0.01598
Std Dev 0.3394

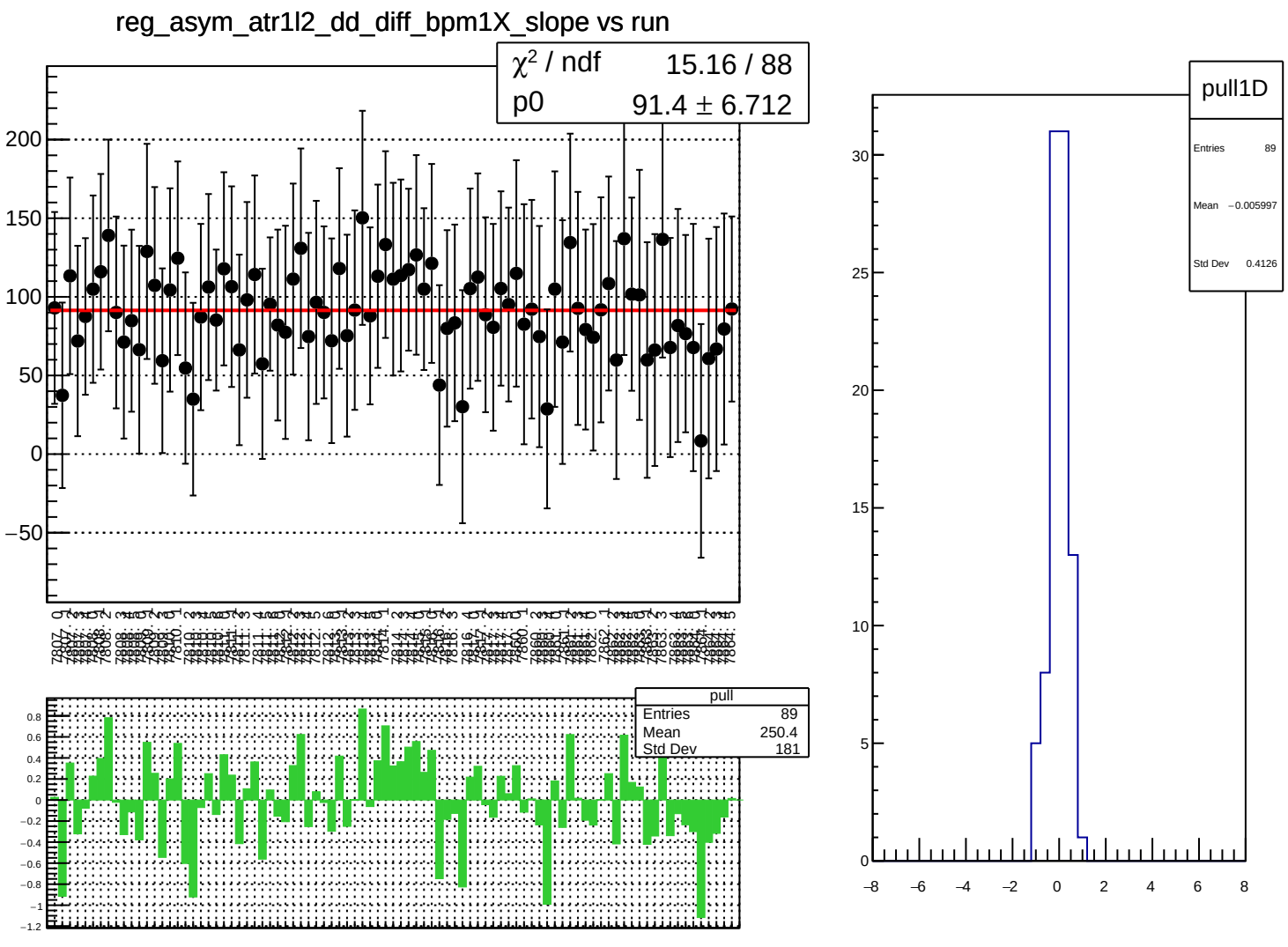

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.368 / 88
p0 91.73 ± 8.124
pull
Entries 89
Mean 193
Std Dev 152.8
pull1D
Entries 89
Mean −0.007095
Std Dev 0.3066

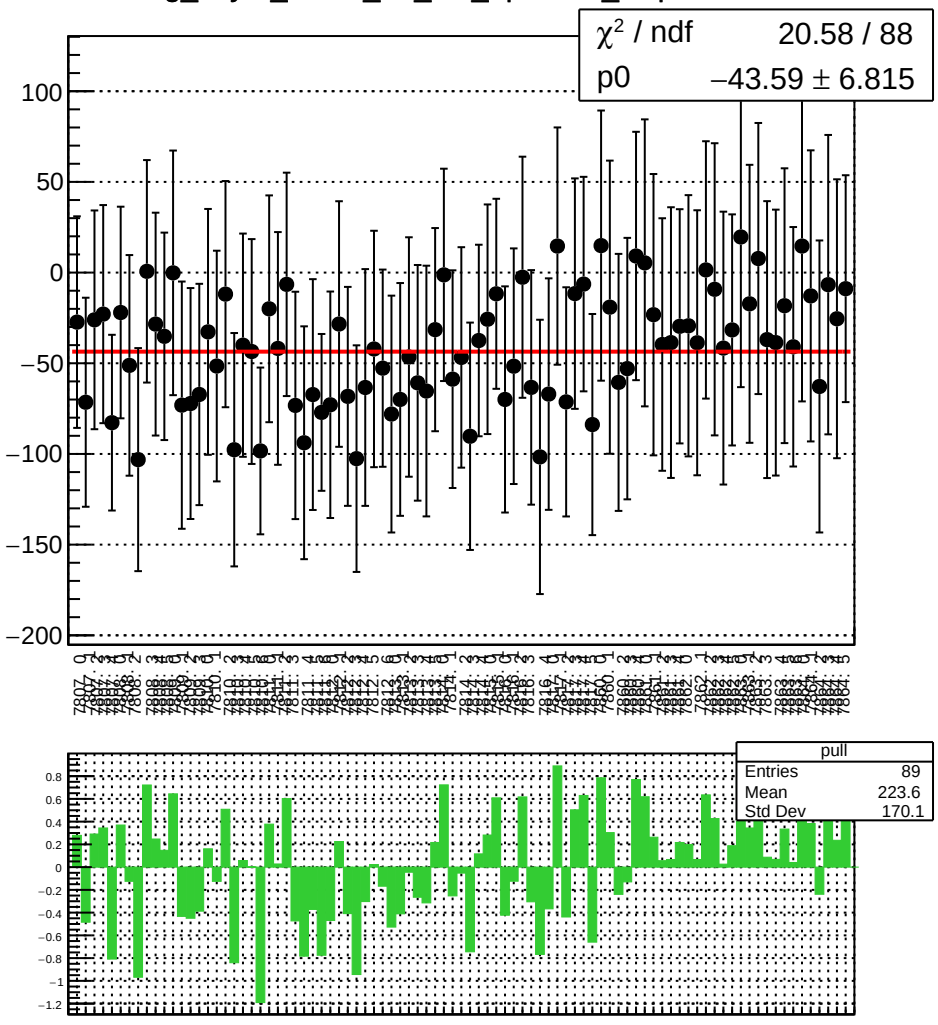

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.996 / 88
p0 16.82 ± 10.36
200
100
0
−100
−200
pull
Entries 89
Mean 216.2
Std Dev 161.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

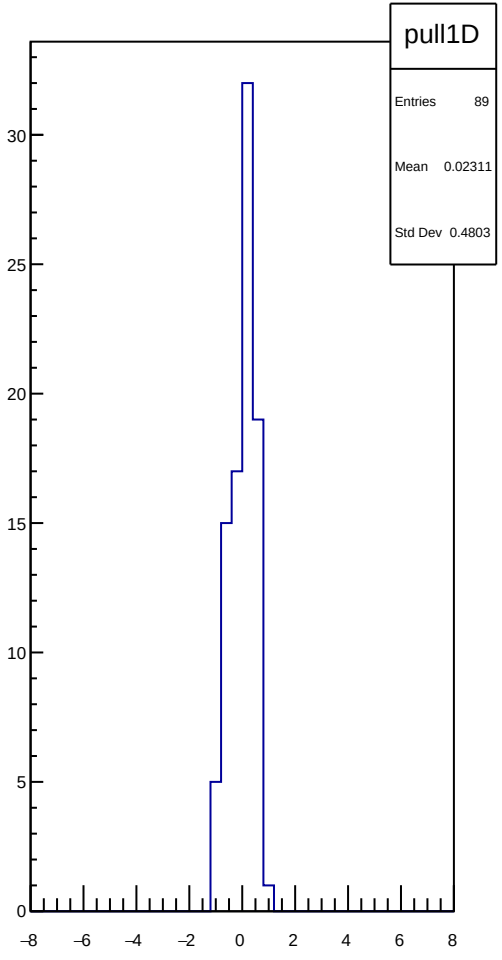

pull1D
Entries 89
Mean 0.01615
Std Dev 0.3347
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

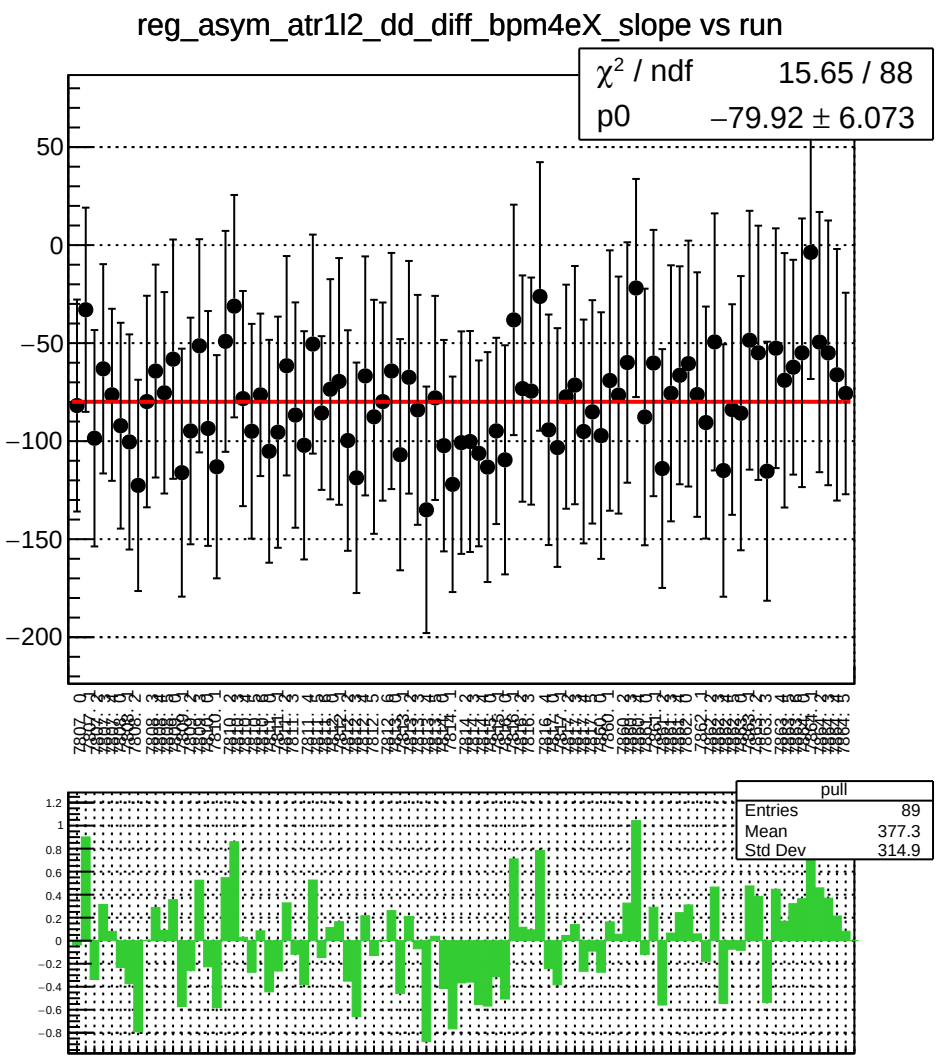

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 27.73 / 88
p0 −157.1 ± 0.3002
−148
−150
−152
−154
−156
−158
−160
−162
pull
Entries 89
Mean 19.5
Std Dev 78.16
1.5
1
0.5
0
−0.5
−1

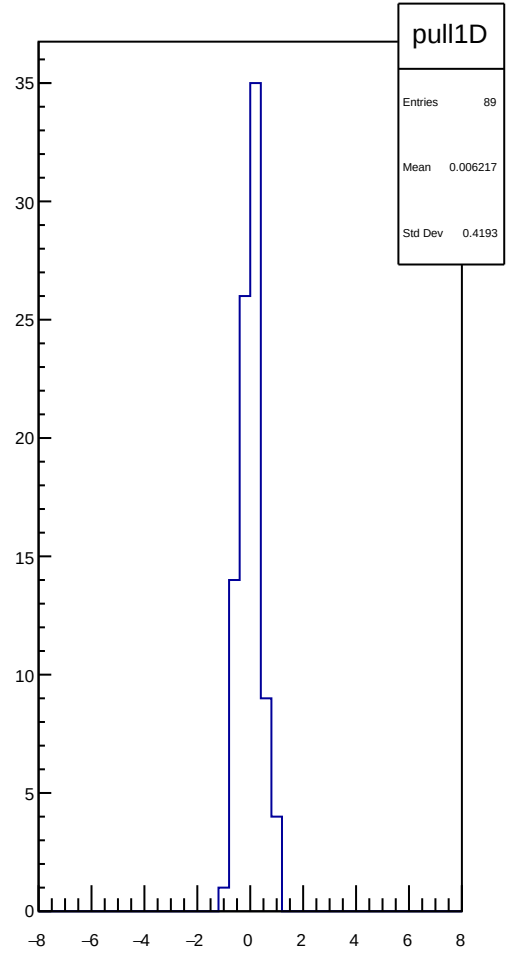

pull1D
Entries 89
Mean 0.01656
Std Dev 0.5579
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

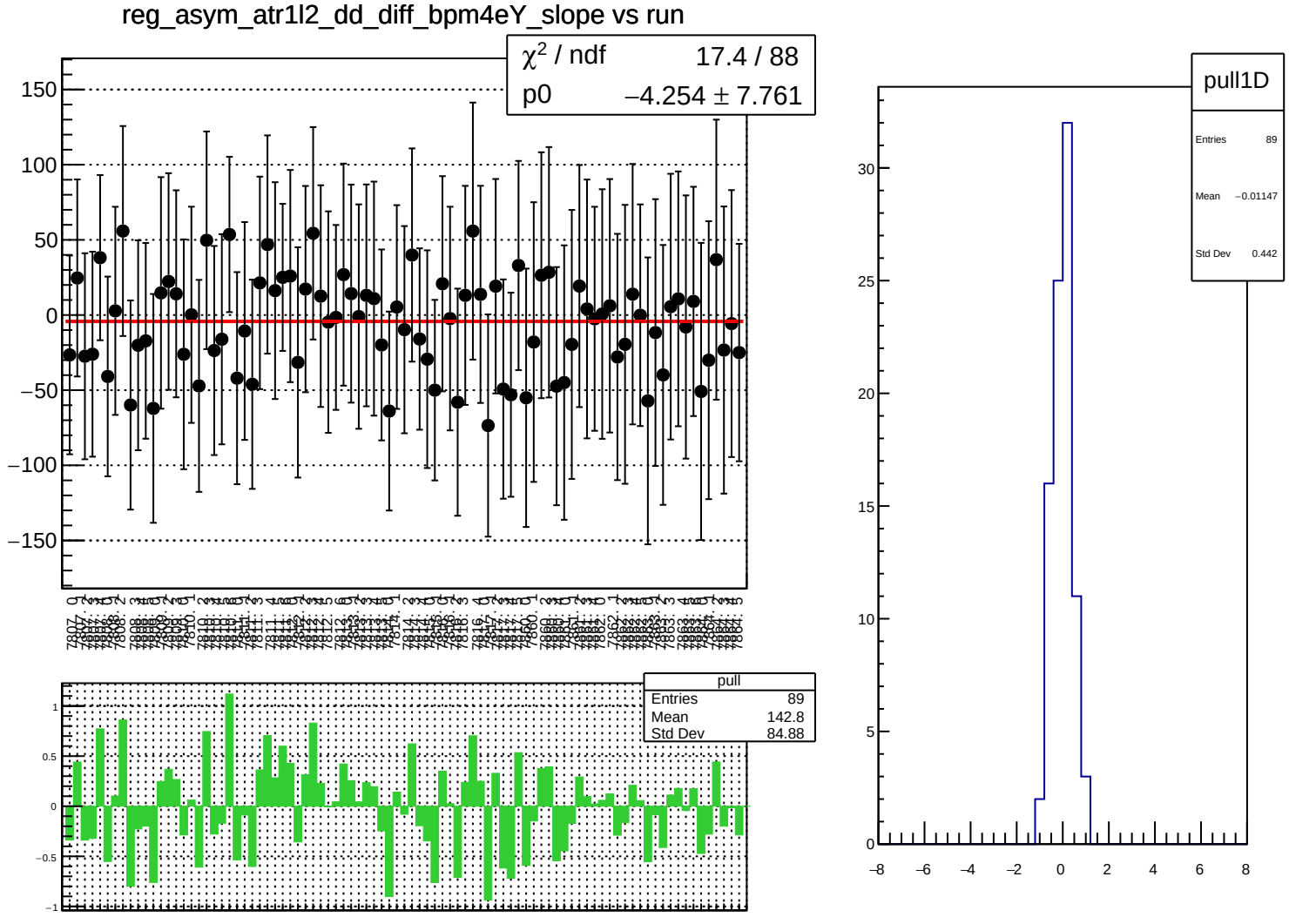

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 15.16 / 88
p0 91.4 ± 6.712
200
150
100
50
0
−50
pull
Entries 89
Mean 250.4
Std Dev 181
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 89
Mean −0.005997
Std Dev 0.4126
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

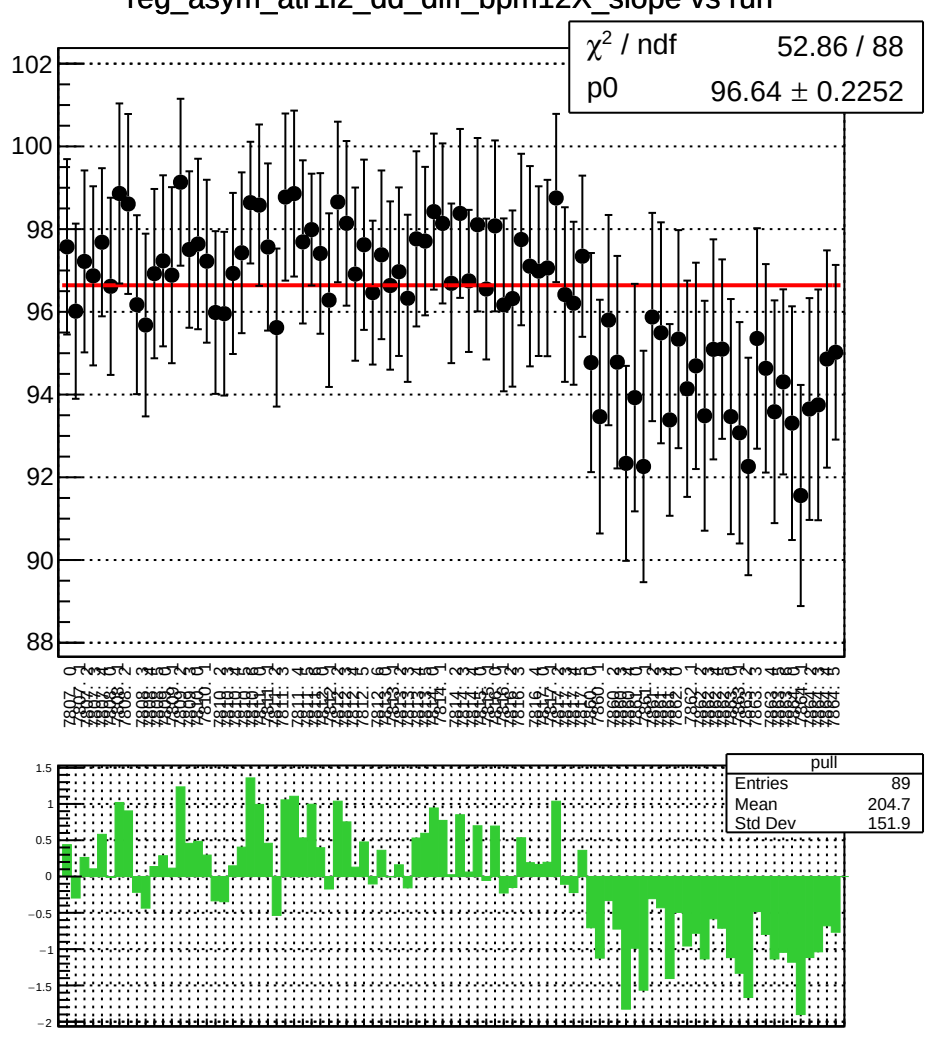

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.58 / 88
p0 −43.59 ± 6.815
pull
Entries 89
Mean 223.6
Std Dev 170.1

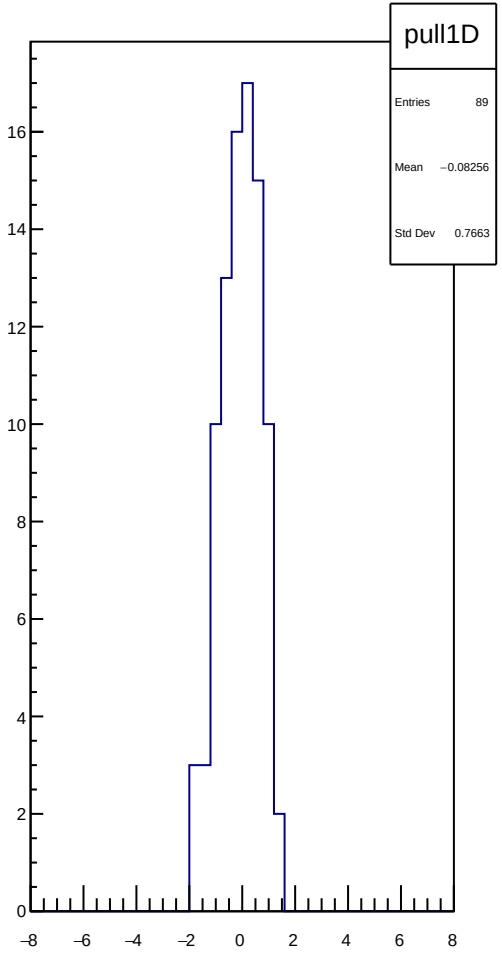

pull1D
Entries 89
Mean 0.02311
Std Dev 0.4803

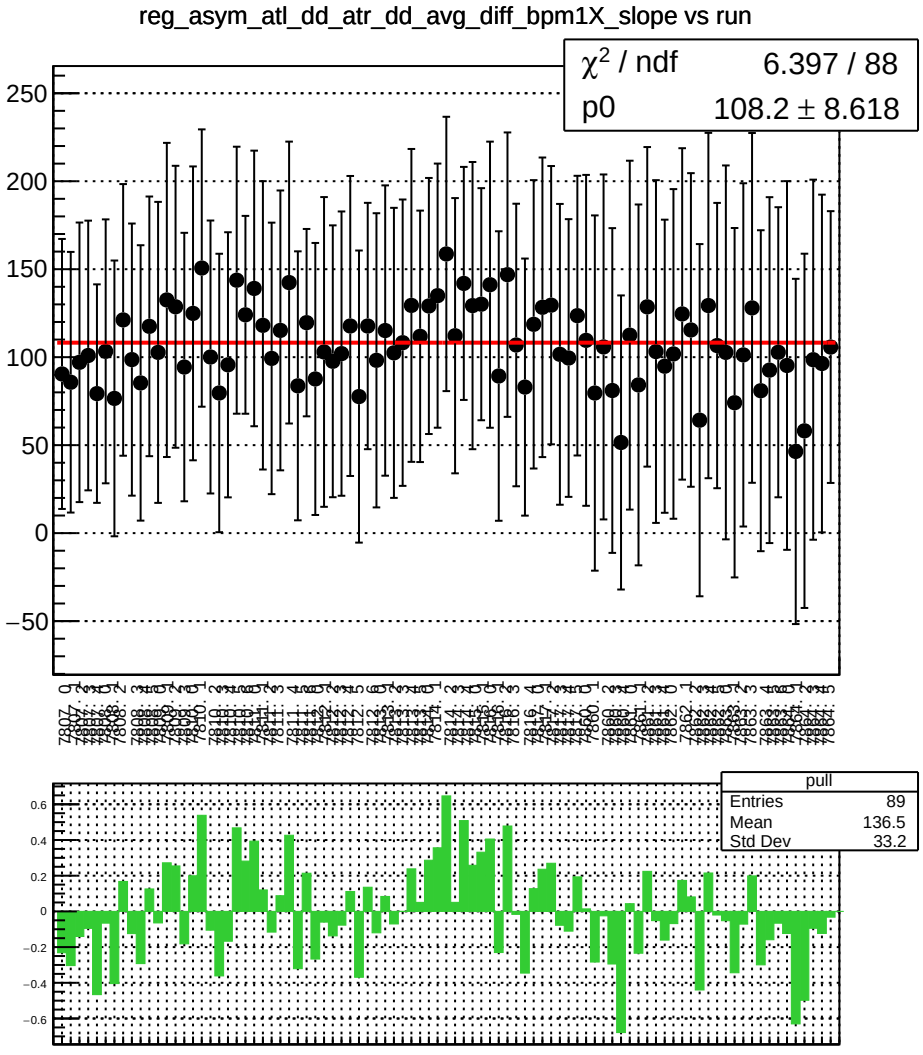

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.65 / 88
p0 −79.92 ± 6.073
pull
Entries 89
Mean 377.3
Std Dev 314.9

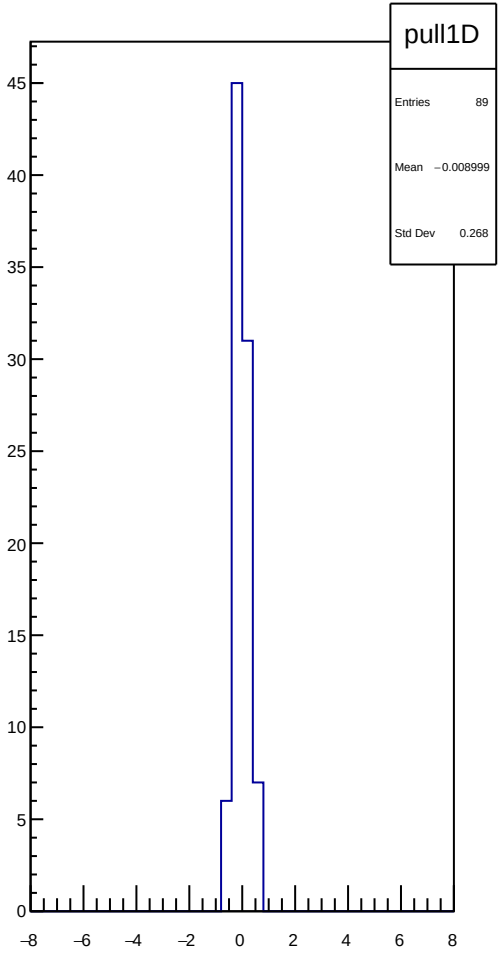

pull1D
Entries 89
Mean 0.006217
Std Dev 0.4193

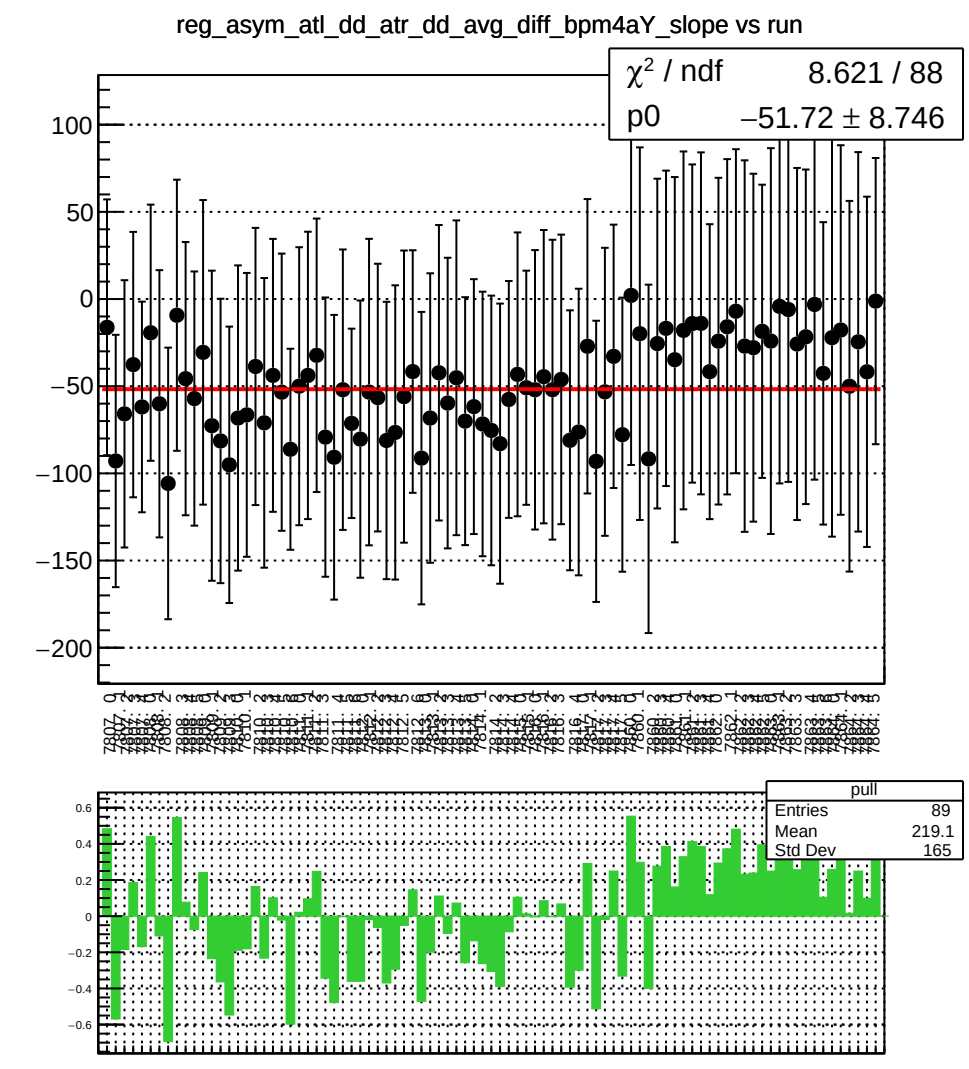

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.4 / 88
p0 −4.254 ± 7.761
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 142.8
Std Dev 84.88
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.01147
Std Dev 0.442
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

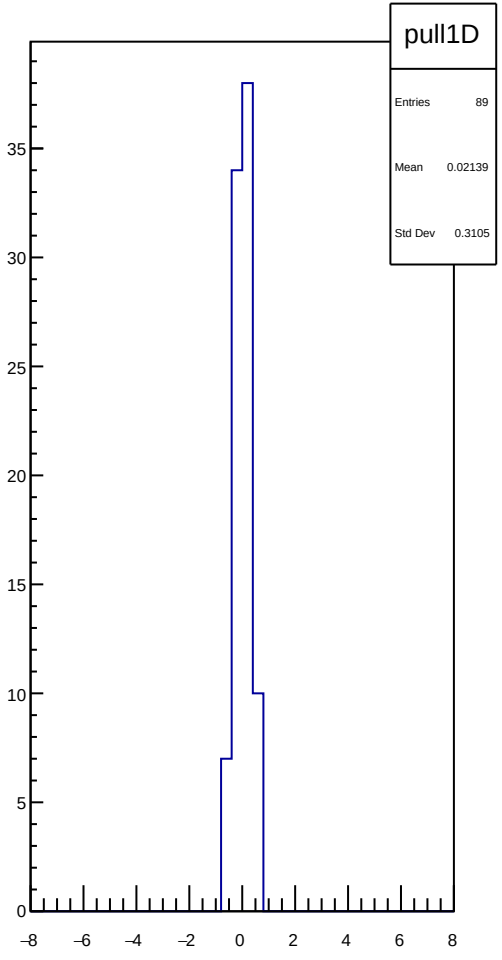

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 52.86 / 88
p0 96.64 ± 0.2252
pull
Entries 89
Mean 204.7
Std Dev 151.9

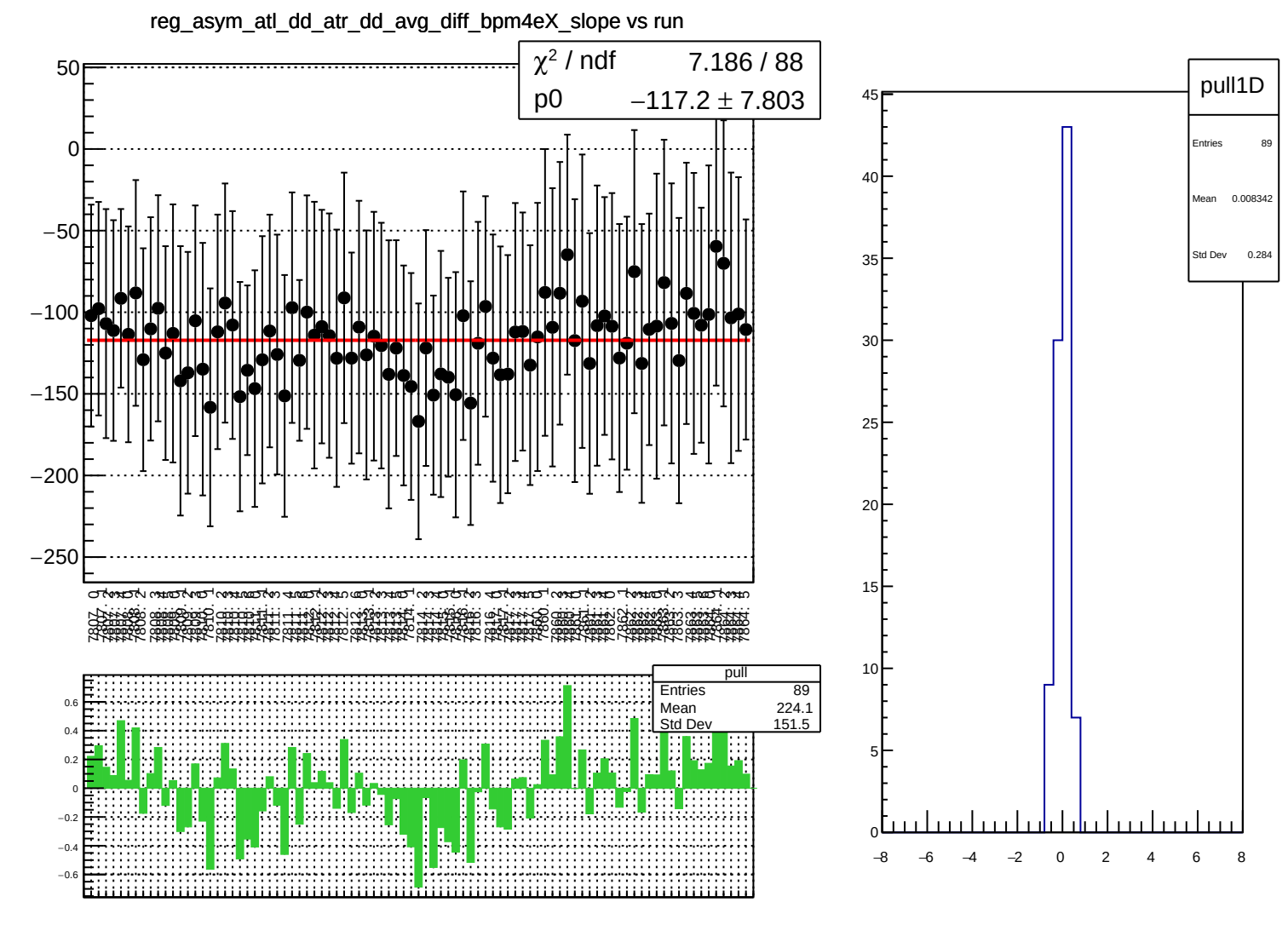

pull1D
Entries 89
Mean −0.08256
Std Dev 0.7663

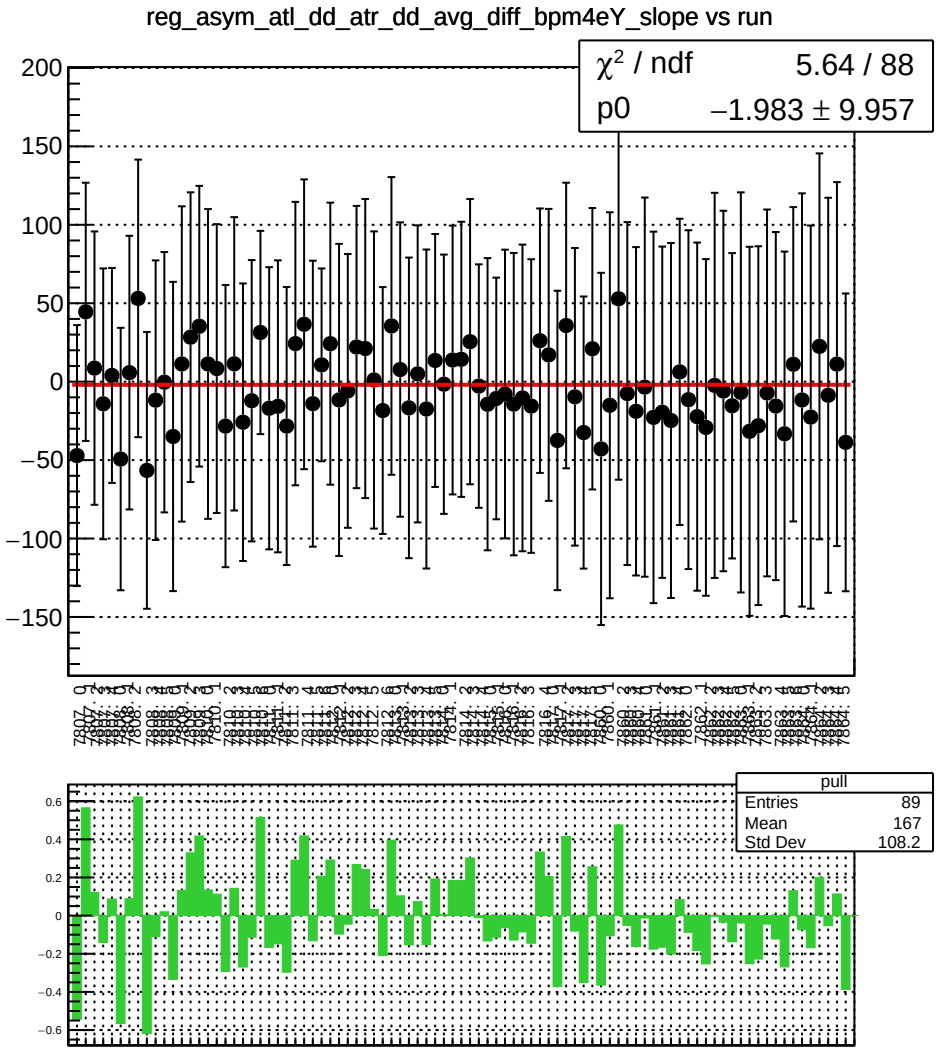

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 6.397 / 88
p0 108.2 ± 8.618
pull
Entries 89
Mean 136.5
Std Dev 33.2

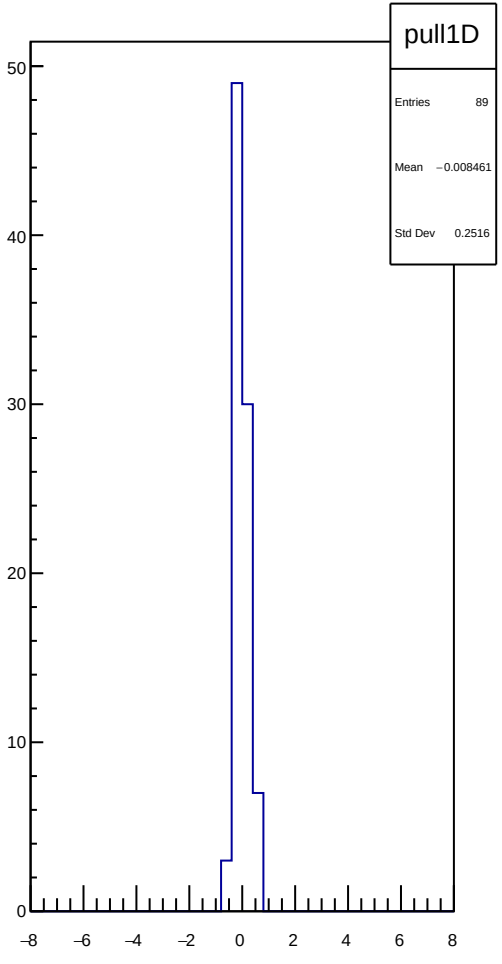

pull1D
Entries 89
Mean −0.008999
Std Dev 0.268

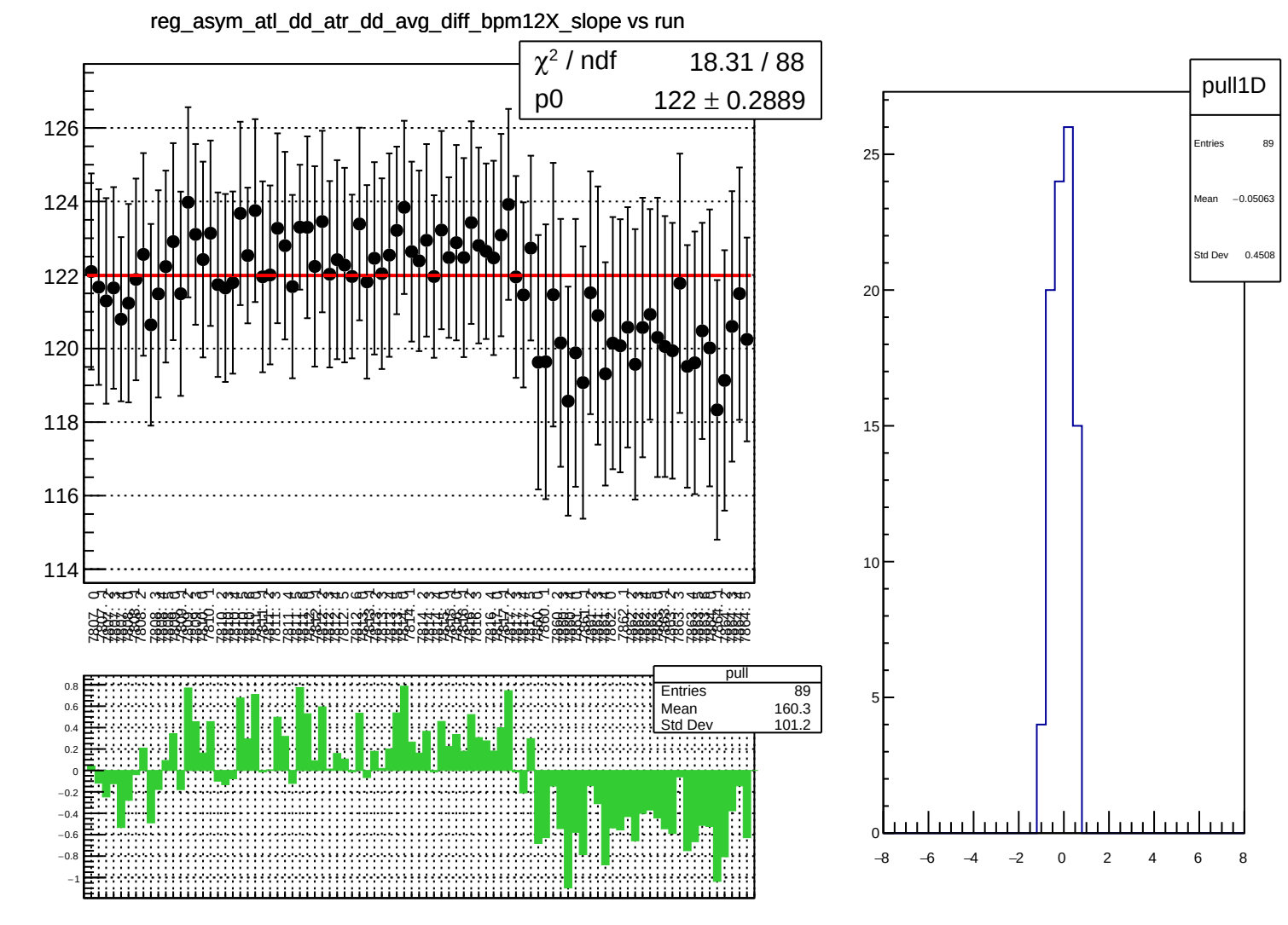

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.621 / 88
p0 −51.72 ± 8.746
pull
Entries 89
Mean 219.1
Std Dev 165

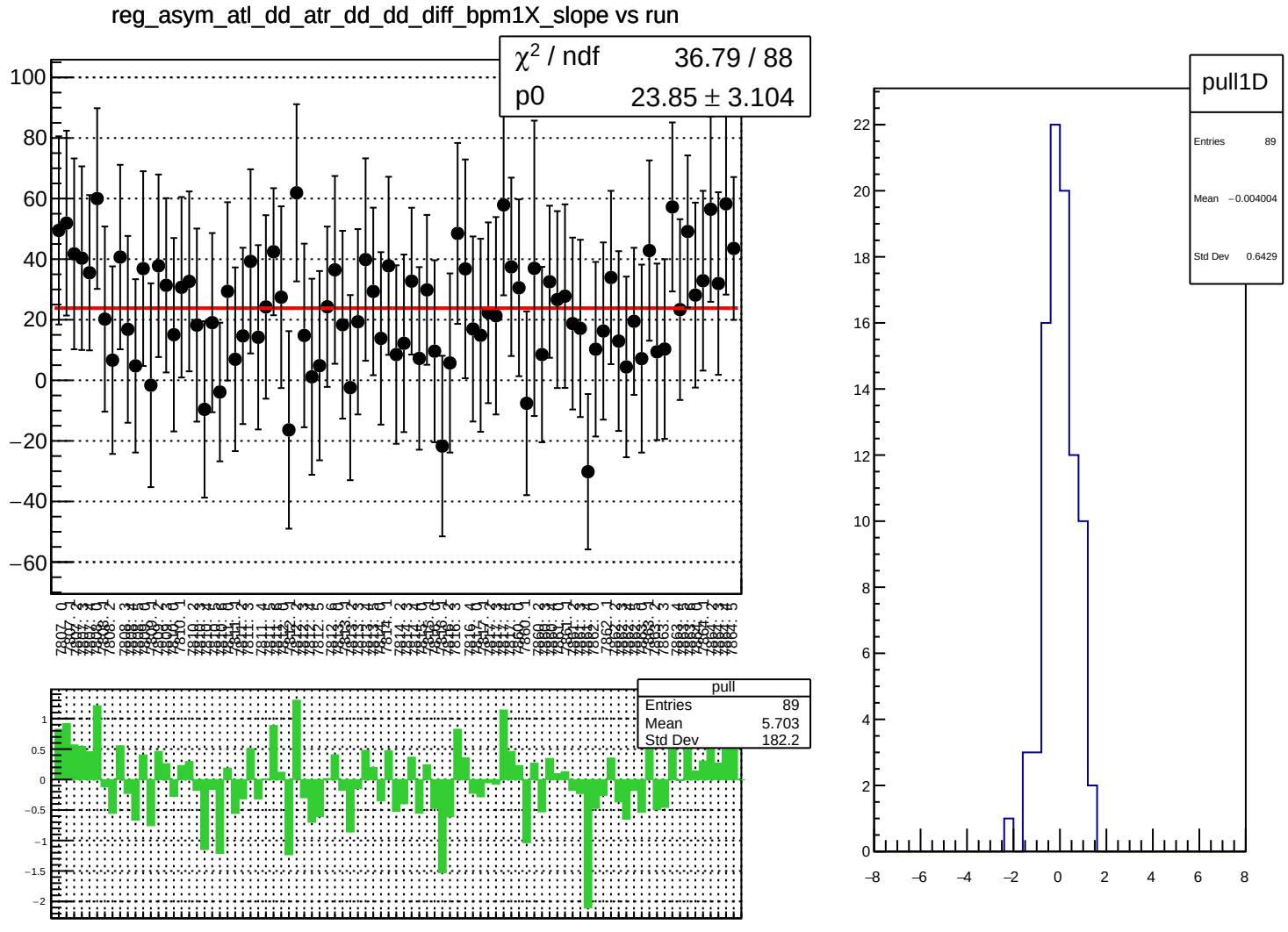

pull1D
Entries 89
Mean 0.02139
Std Dev 0.3105

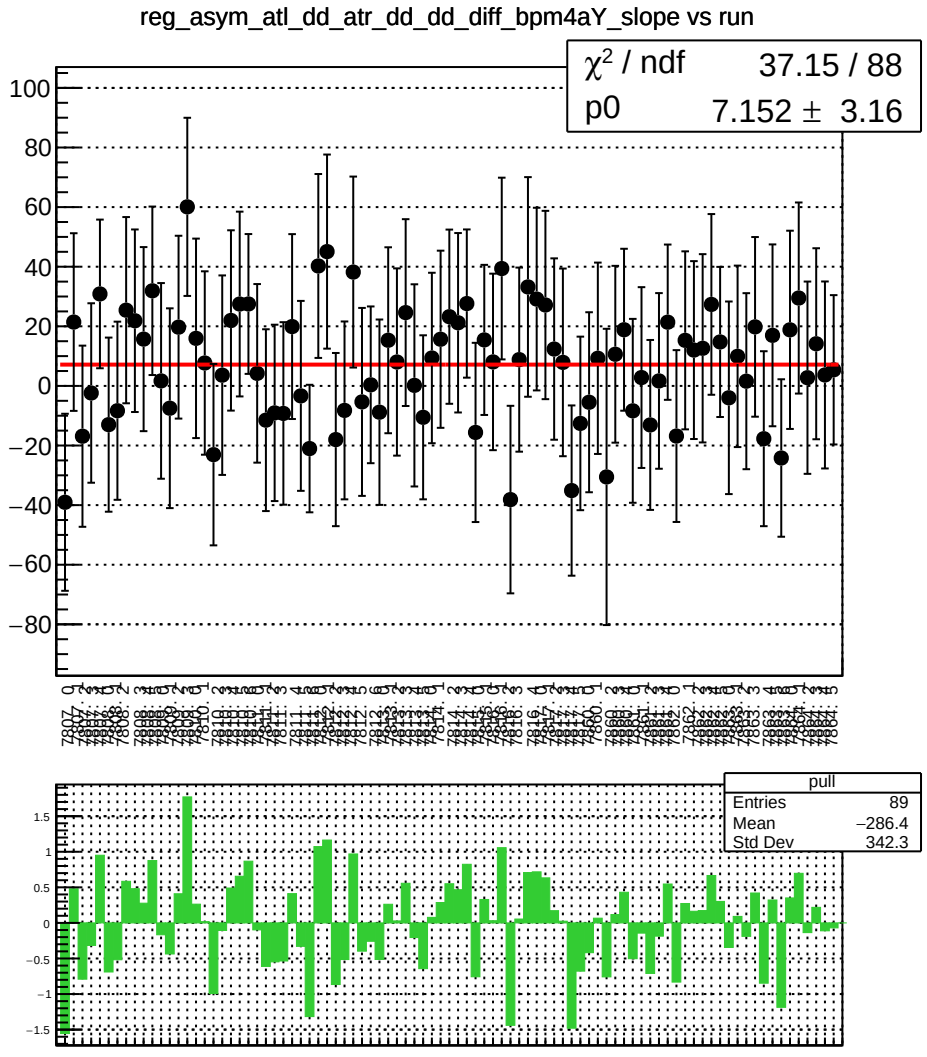

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.186 / 88
p0 −117.2 ± 7.803
pull
Entries 89
Mean 224.1
Std Dev 151.5
pull1D
Entries 89
Mean 0.008342
Std Dev 0.284

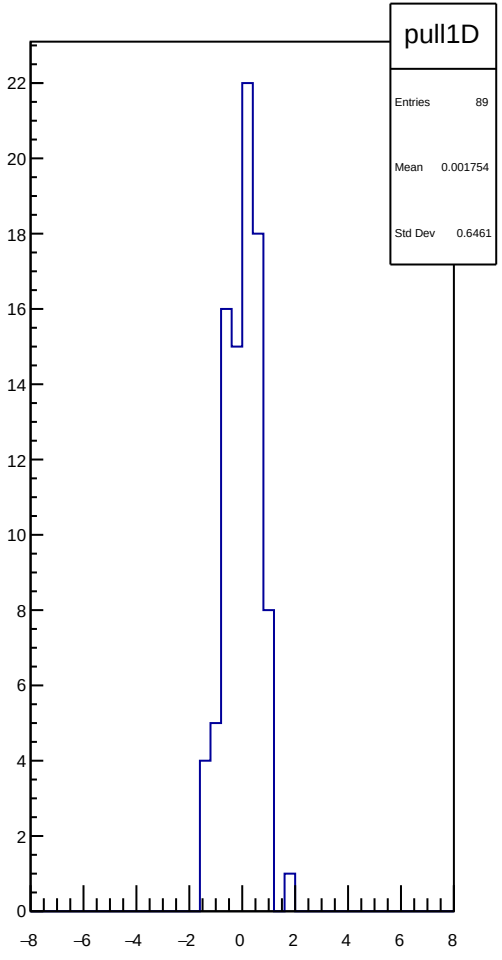

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.64 / 88
p0 −1.983 ± 9.957
pull
Entries 89
Mean 167
Std Dev 108.2

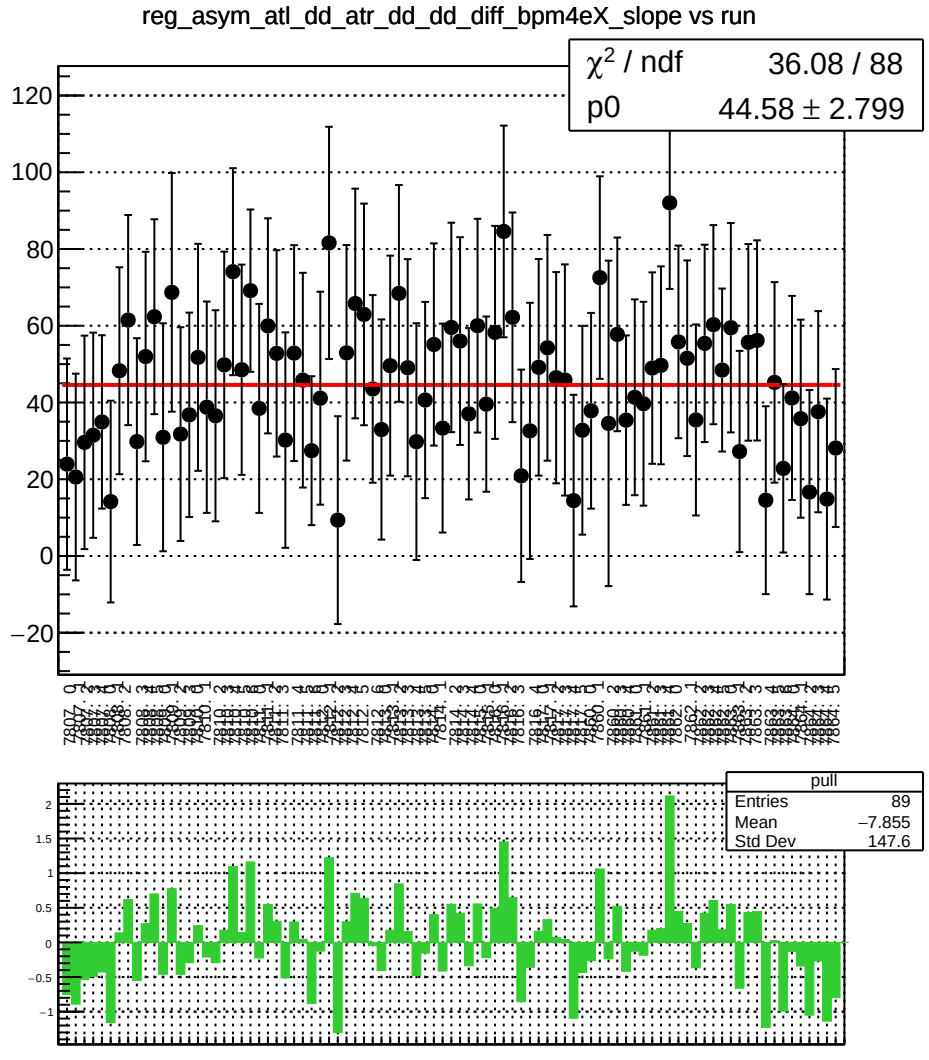

pull1D
Entries 89
Mean −0.008461
Std Dev 0.2516

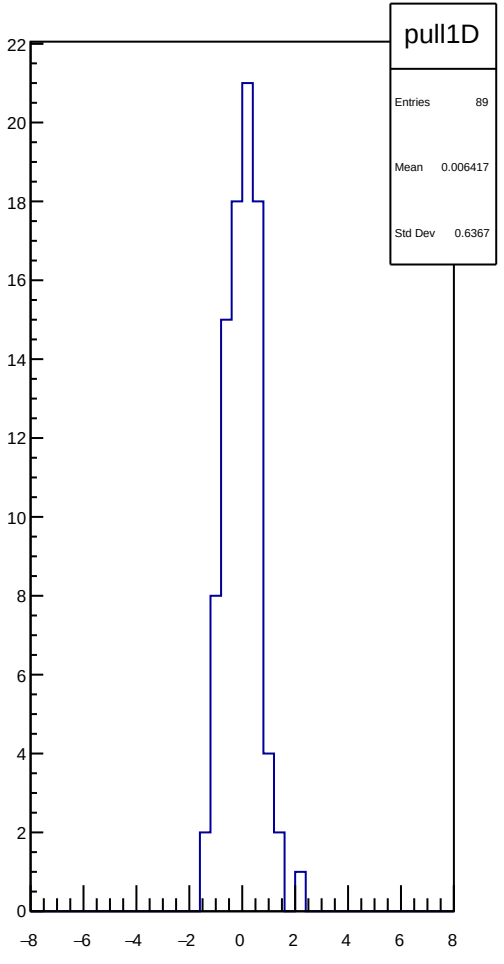

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 18.31 / 88
p0 122 ± 0.2889
pull
Entries 89
Mean 160.3
Std Dev 101.2
pull1D
Entries 89
Mean −0.05063
Std Dev 0.4508

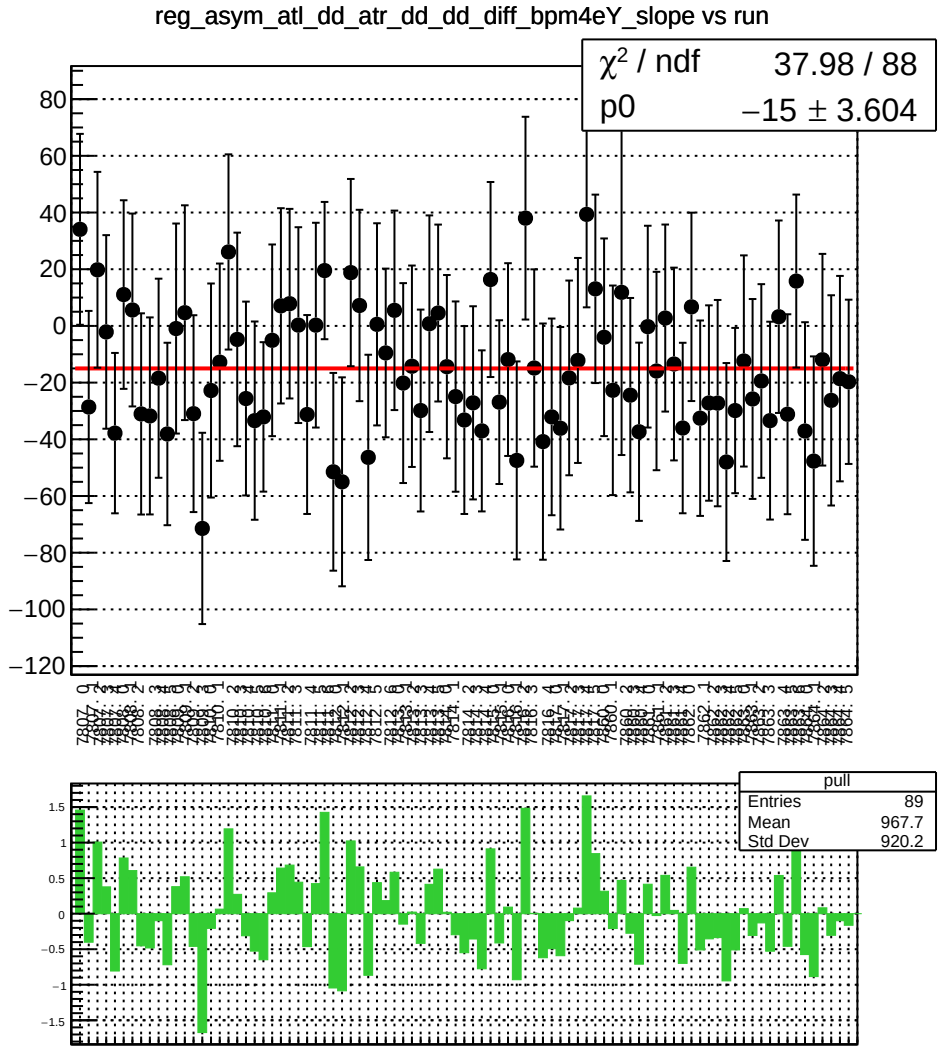

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 36.79 / 88
p0 23.85 ± 3.104
pull
Entries 89
Mean 5.703
Std Dev 182.2
pull1D
Entries 89
Mean −0.004004
Std Dev 0.6429

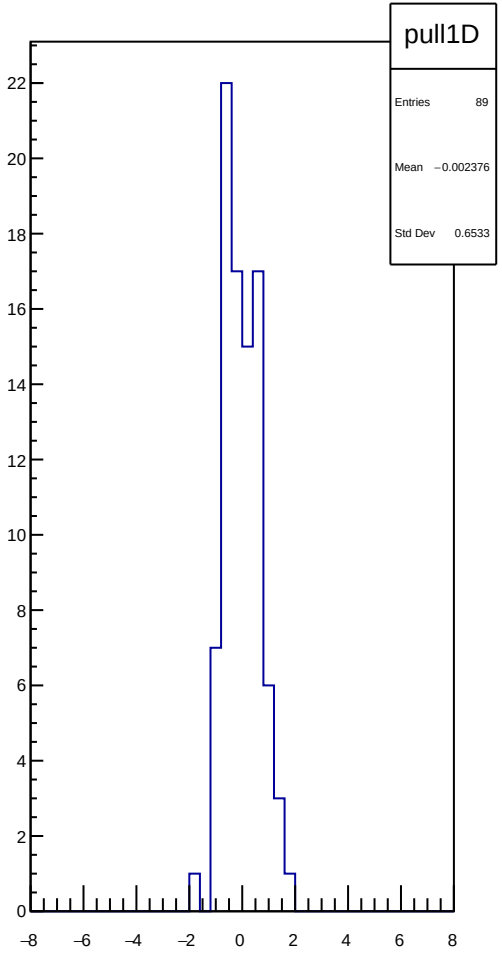

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.15 / 88
p0 7.152 ± 3.16
pull
Entries 89
Mean −286.4
Std Dev 342.3

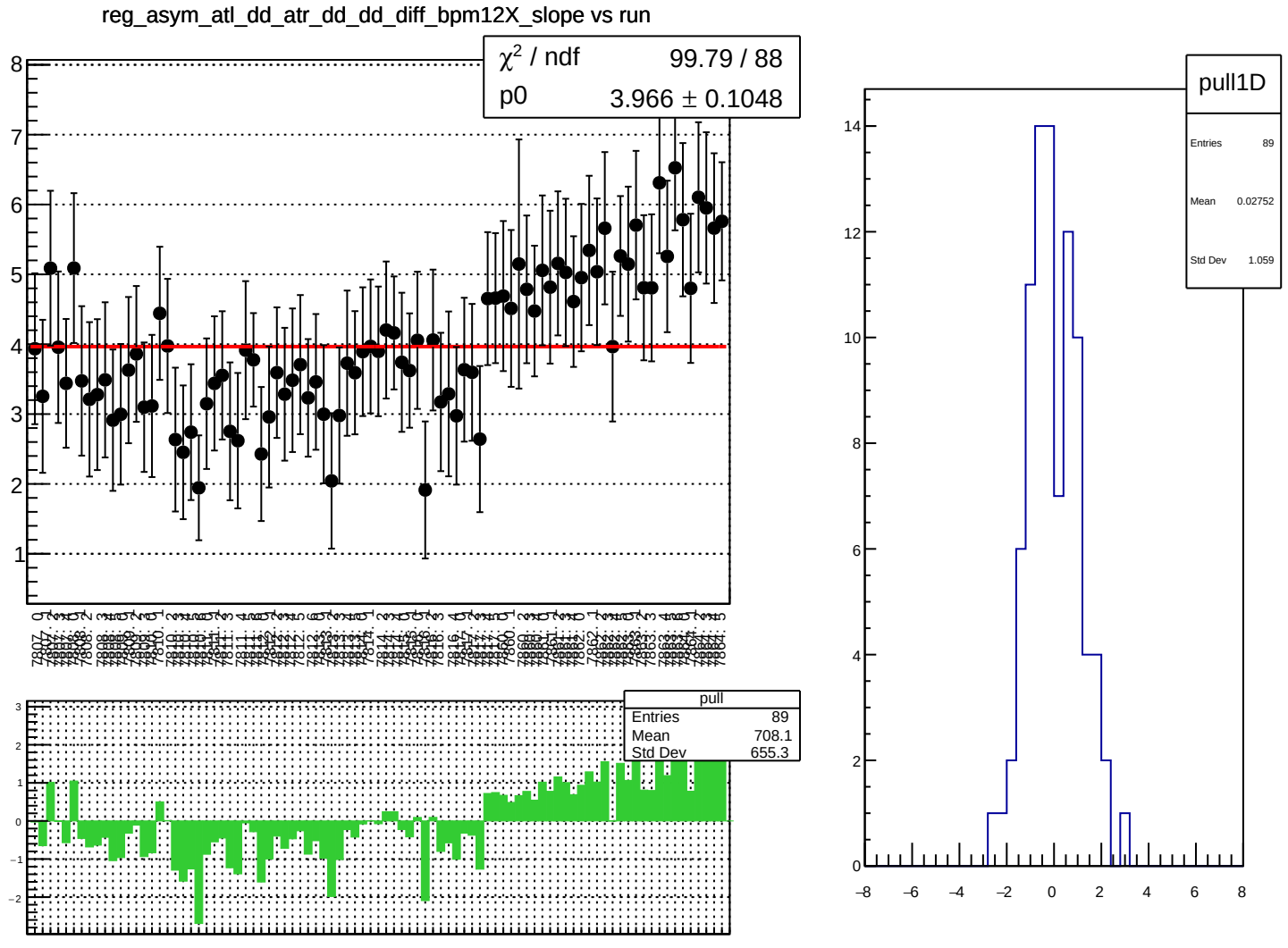

pull1D
Entries 89
Mean 0.001754
Std Dev 0.6461

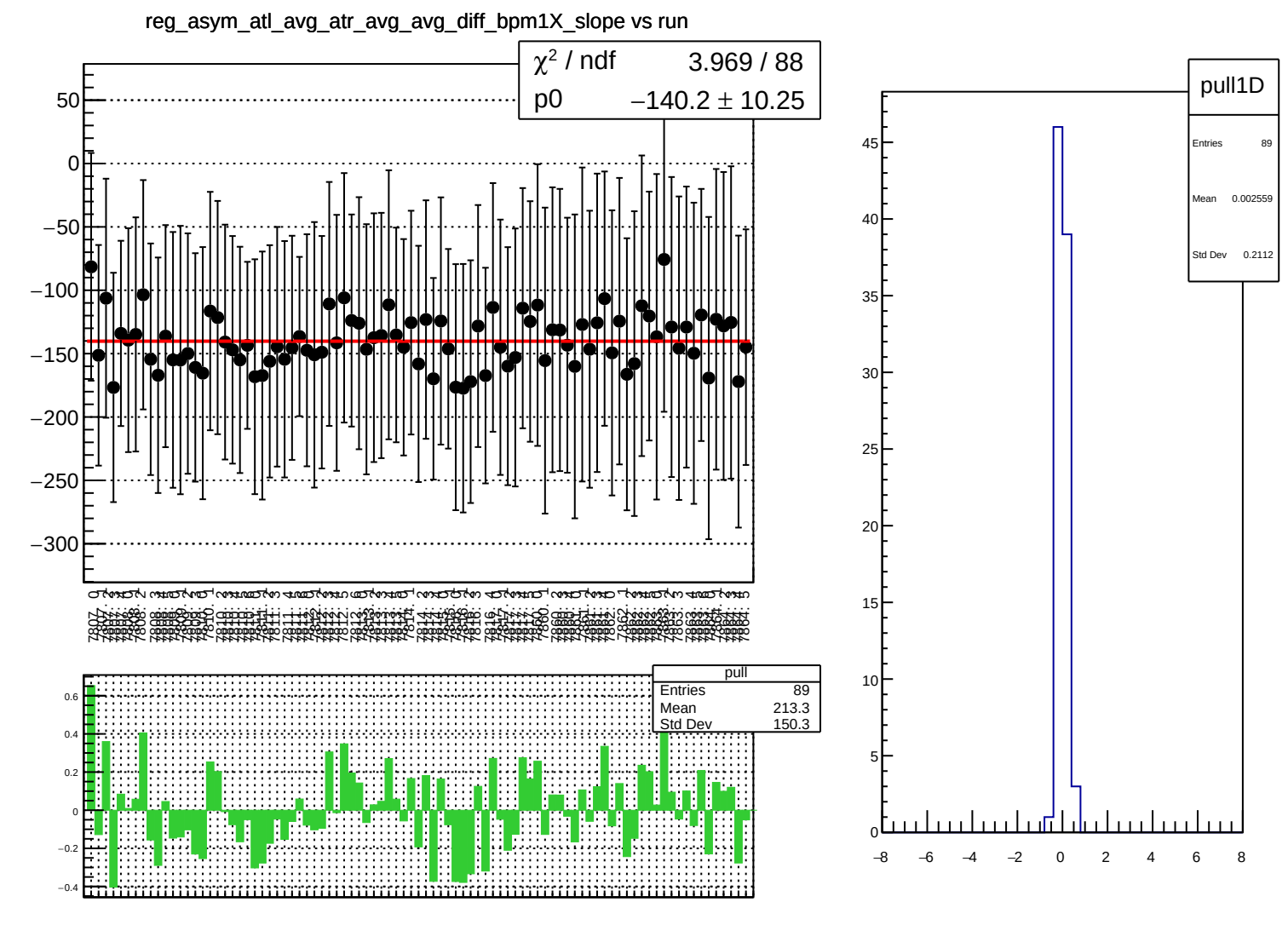

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.08 / 88
p0 44.58 ± 2.799
pull
Entries 89
Mean −7.855
Std Dev 147.6

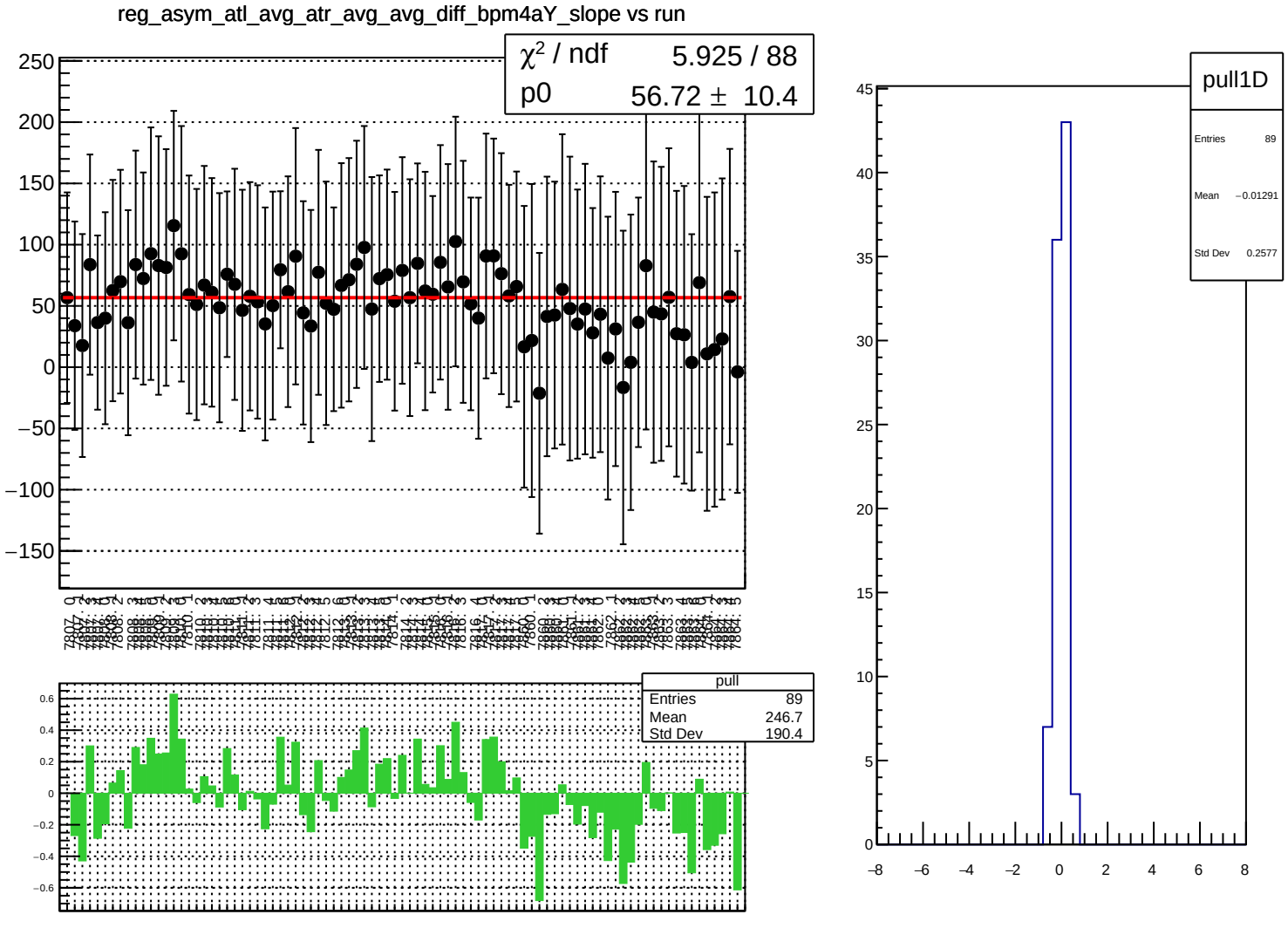

pull1D
Entries 89
Mean 0.006417
Std Dev 0.6367

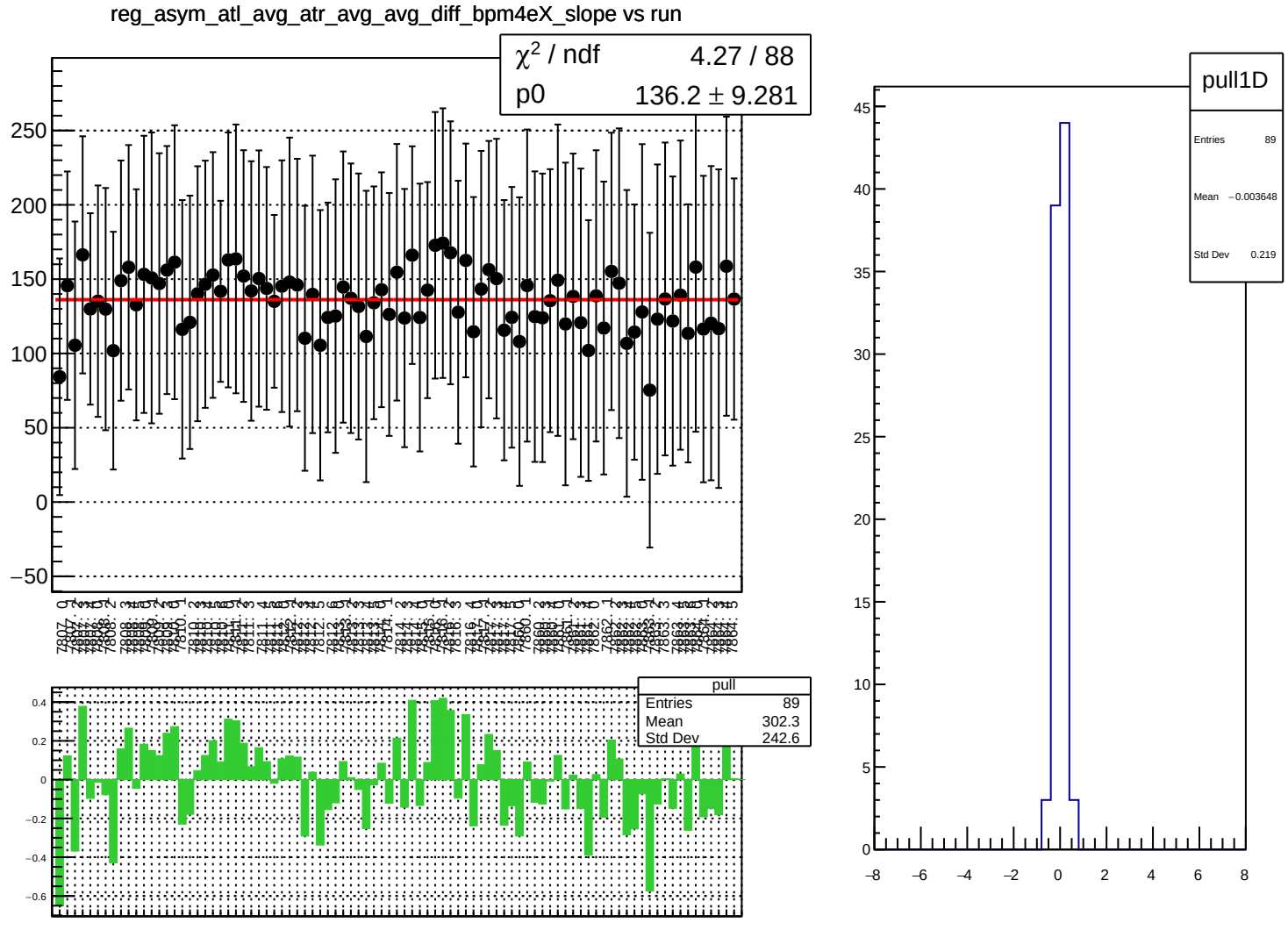

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.98 / 88
p0 −15 ± 3.604
pull
Entries 89
Mean 967.7
Std Dev 920.2

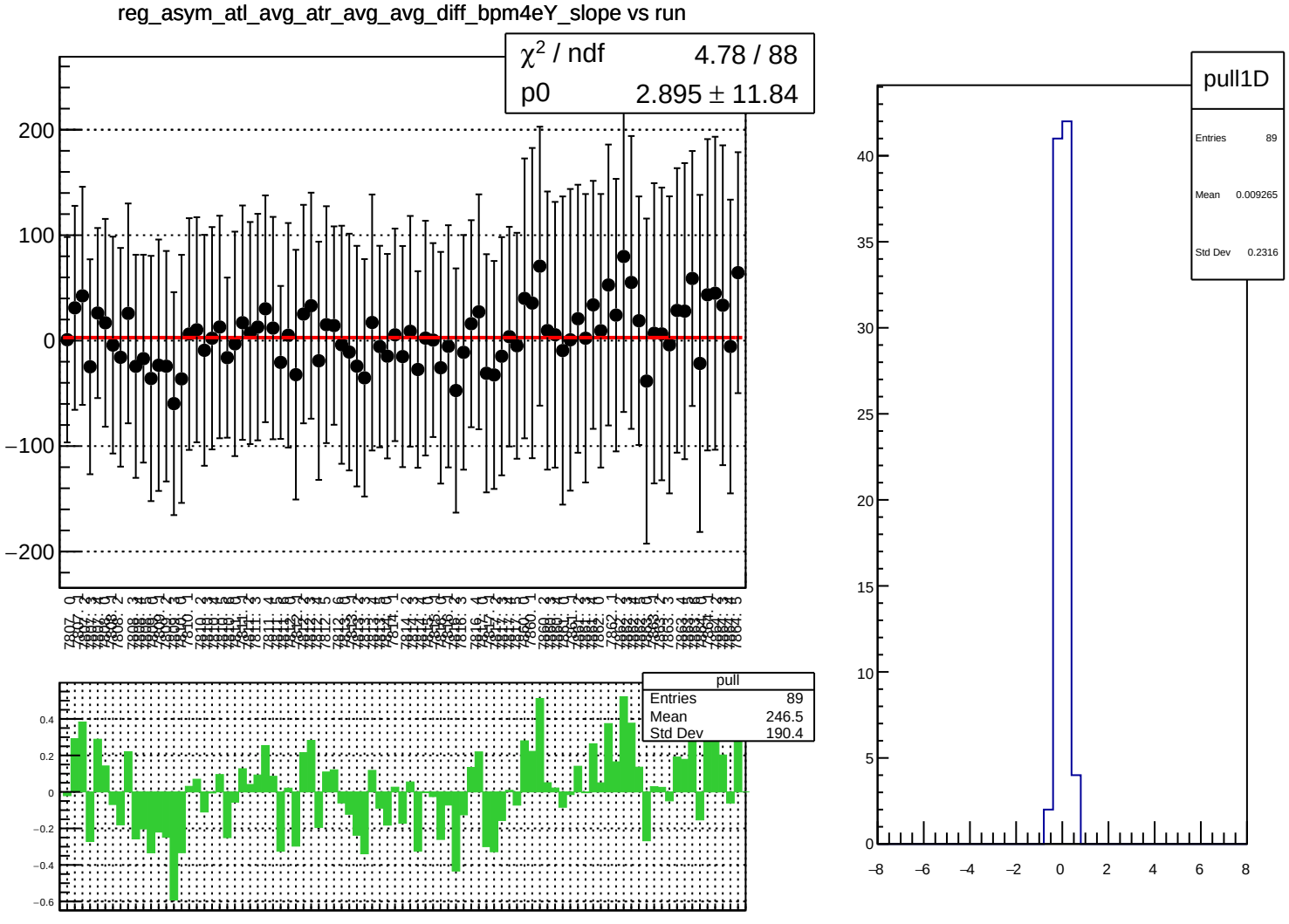

pull1D
Entries 89
Mean −0.002376
Std Dev 0.6533

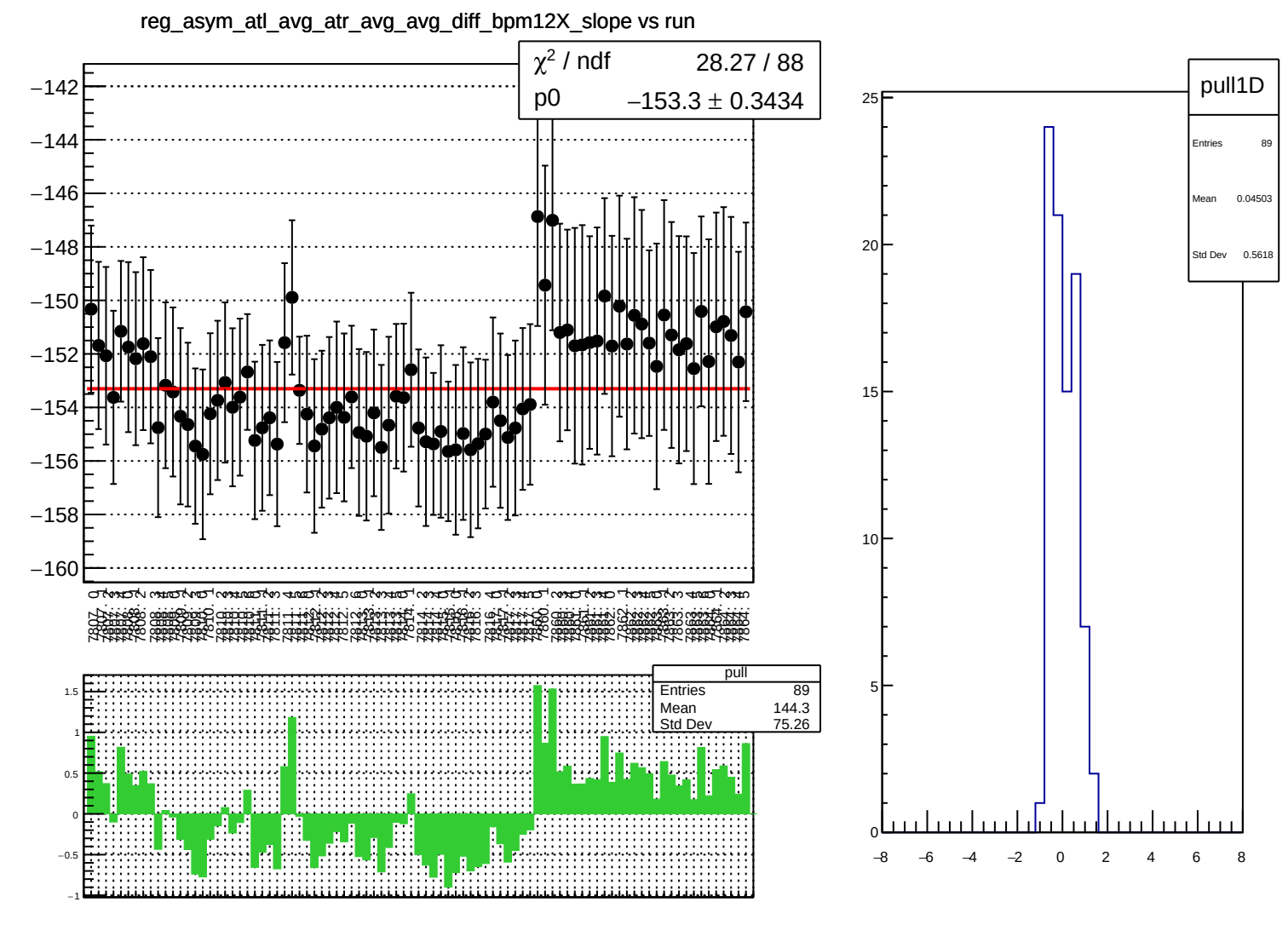

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 99.79 / 88
p0 3.966 ± 0.1048
pull
Entries 89
Mean 708.1
Std Dev 655.3
pull1D
Entries 89
Mean 0.02752
Std Dev 1.059

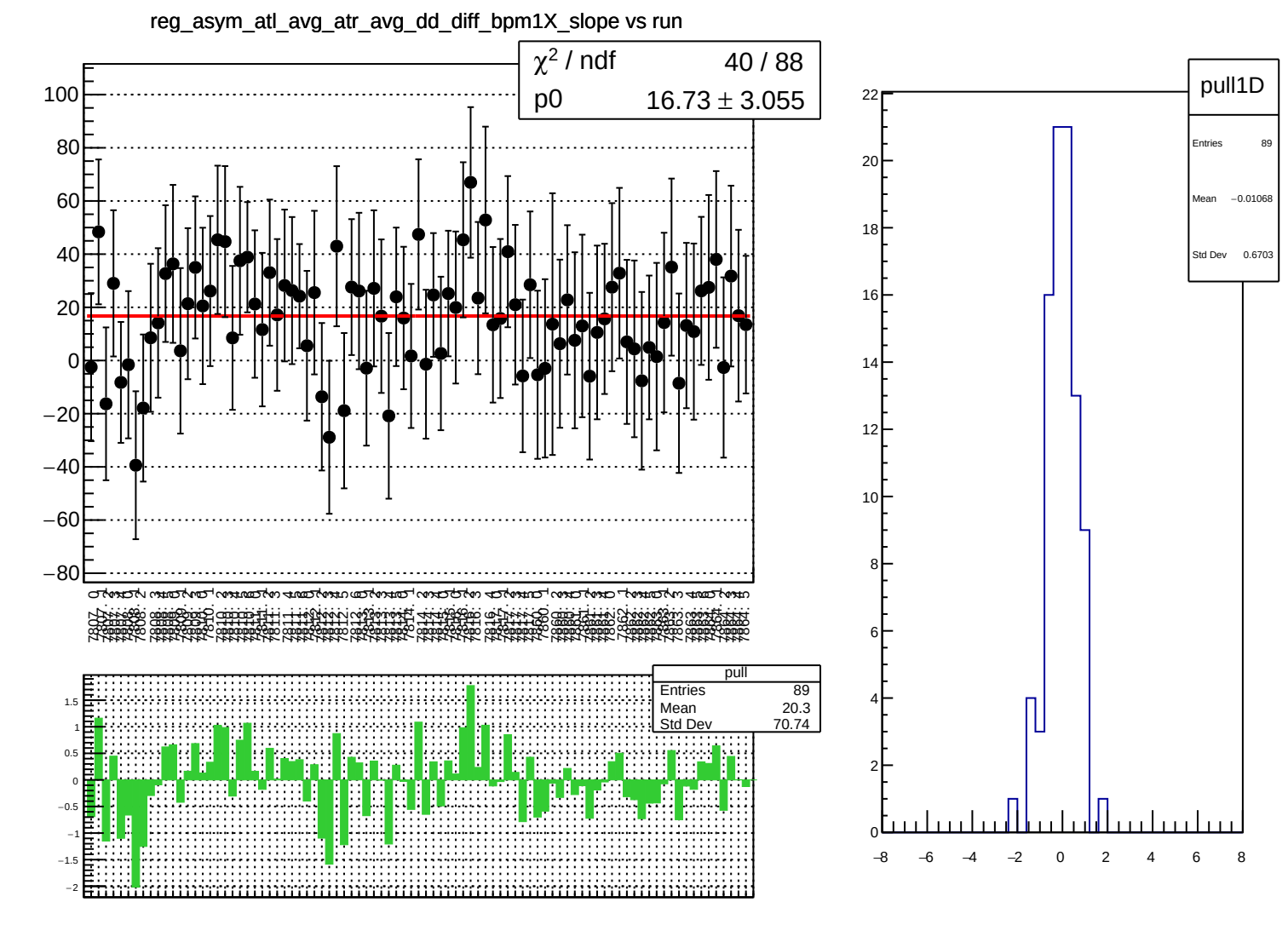

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 3.969 / 88
p0 −140.2 ± 10.25
pull
Entries 89
Mean 213.3
Std Dev 150.3
pull1D
Entries 89
Mean 0.002559
Std Dev 0.2112

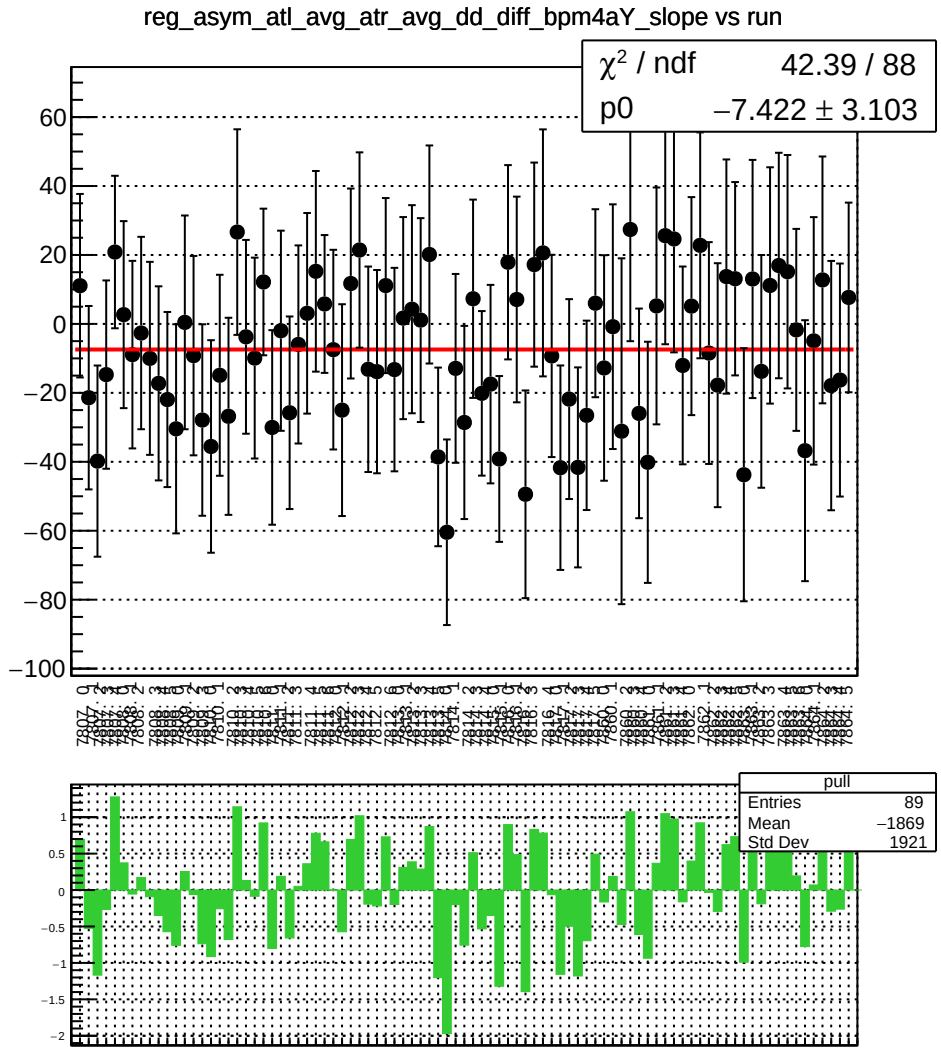

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.925 / 88
p0 56.72 ± 10.4
pull
Entries 89
Mean 246.7
Std Dev 190.4
pull1D
Entries 89
Mean −0.01291
Std Dev 0.2577

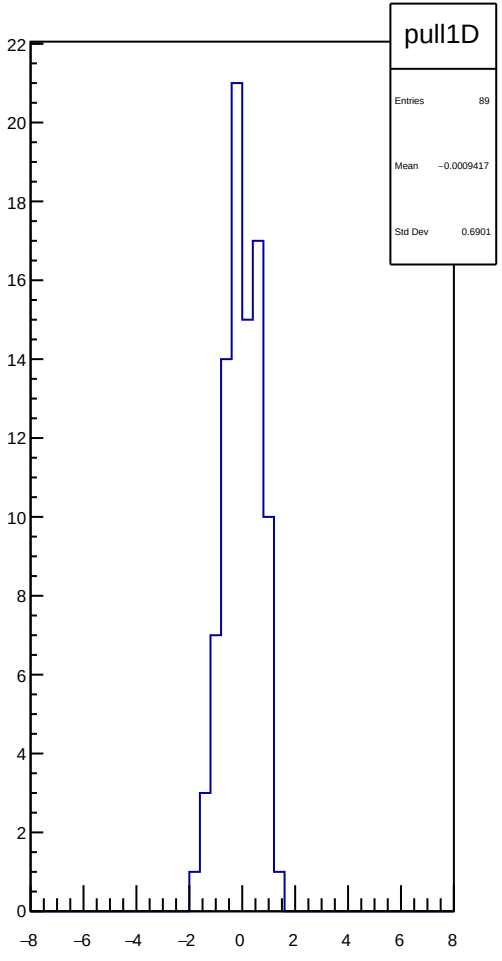

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.27 / 88
p0 136.2 ± 9.281
pull
Entries 89
Mean 302.3
Std Dev 242.6
pull1D
Entries 89
Mean −0.003648
Std Dev 0.219

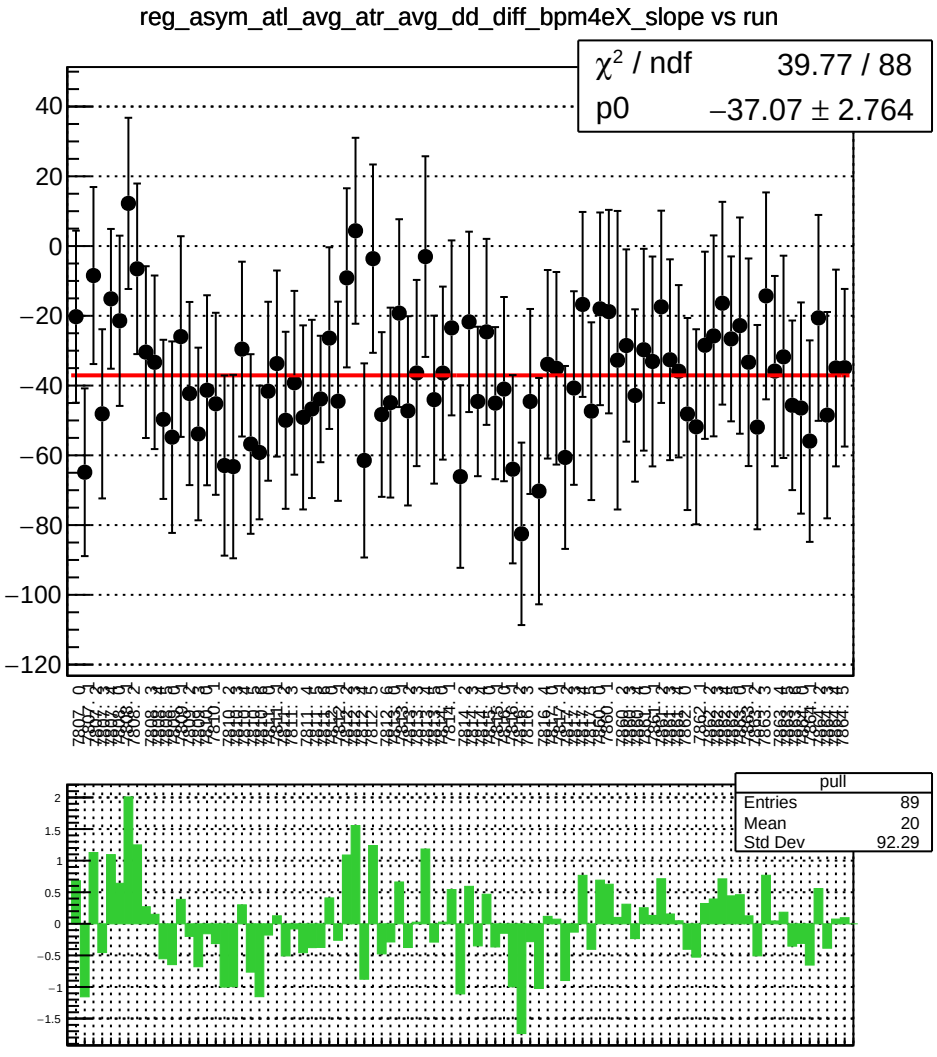

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.78 / 88
p0 2.895 ± 11.84
200
100
0
−100
−200
pull
Entries 89
Mean 246.5
Std Dev 190.4
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean 0.009265
Std Dev 0.2316
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

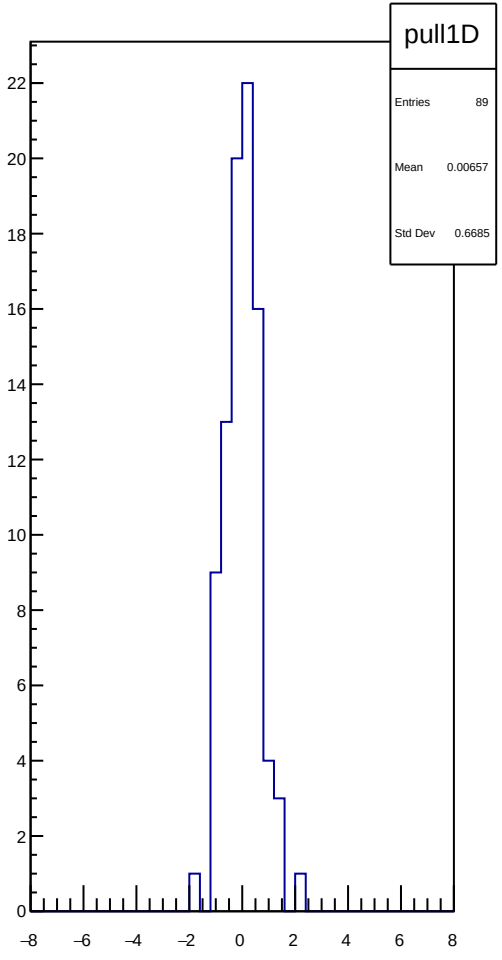

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 28.27 / 88
p0 −153.3 ± 0.3434
pull
Entries 89
Mean 144.3
Std Dev 75.26
pull1D
Entries 89
Mean 0.04503
Std Dev 0.5618

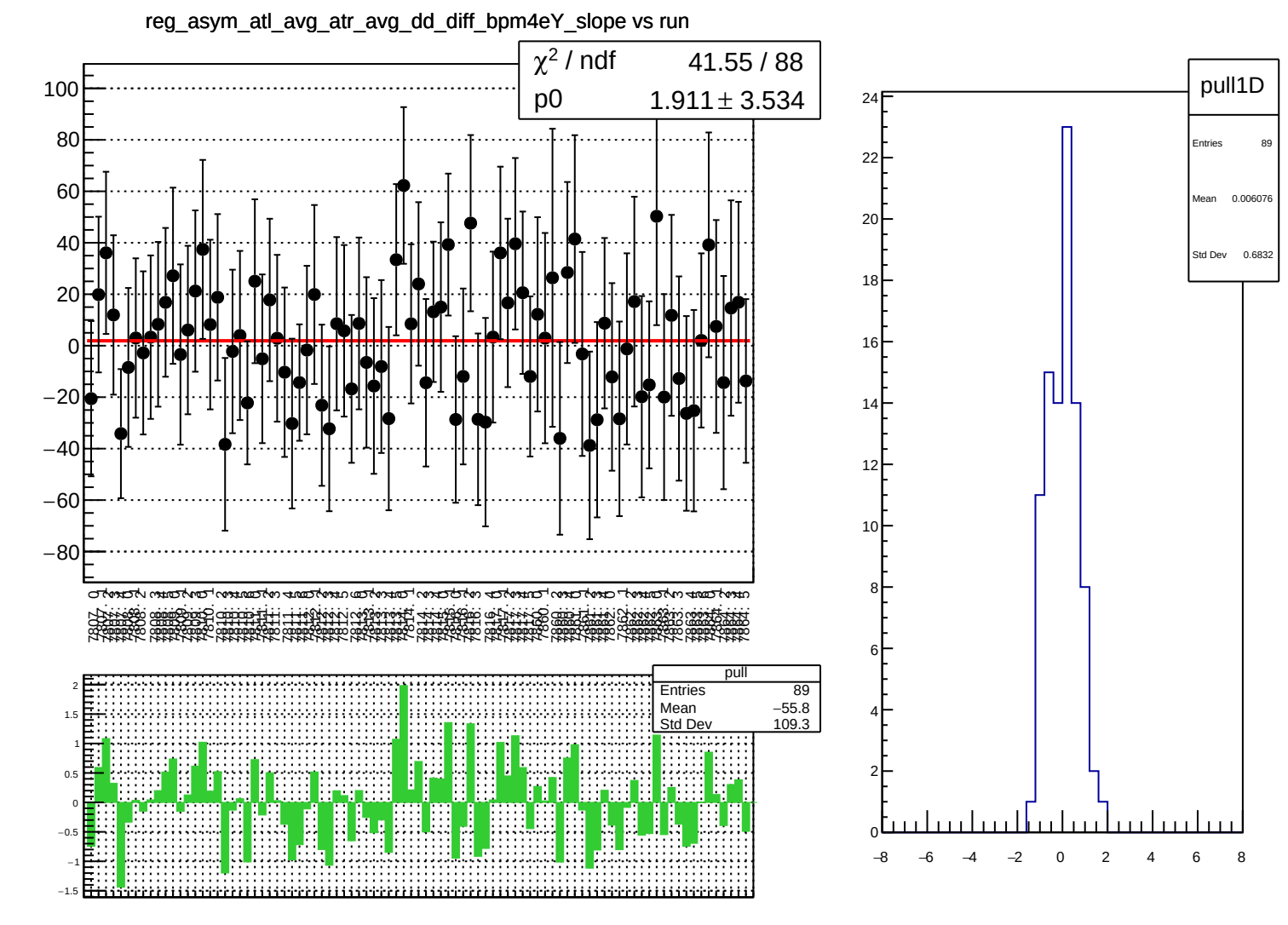

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 40 / 88
p0 16.73 ± 3.055
pull
Entries 89
Mean 20.3
Std Dev 70.74
pull1D
Entries 89
Mean −0.01068
Std Dev 0.6703

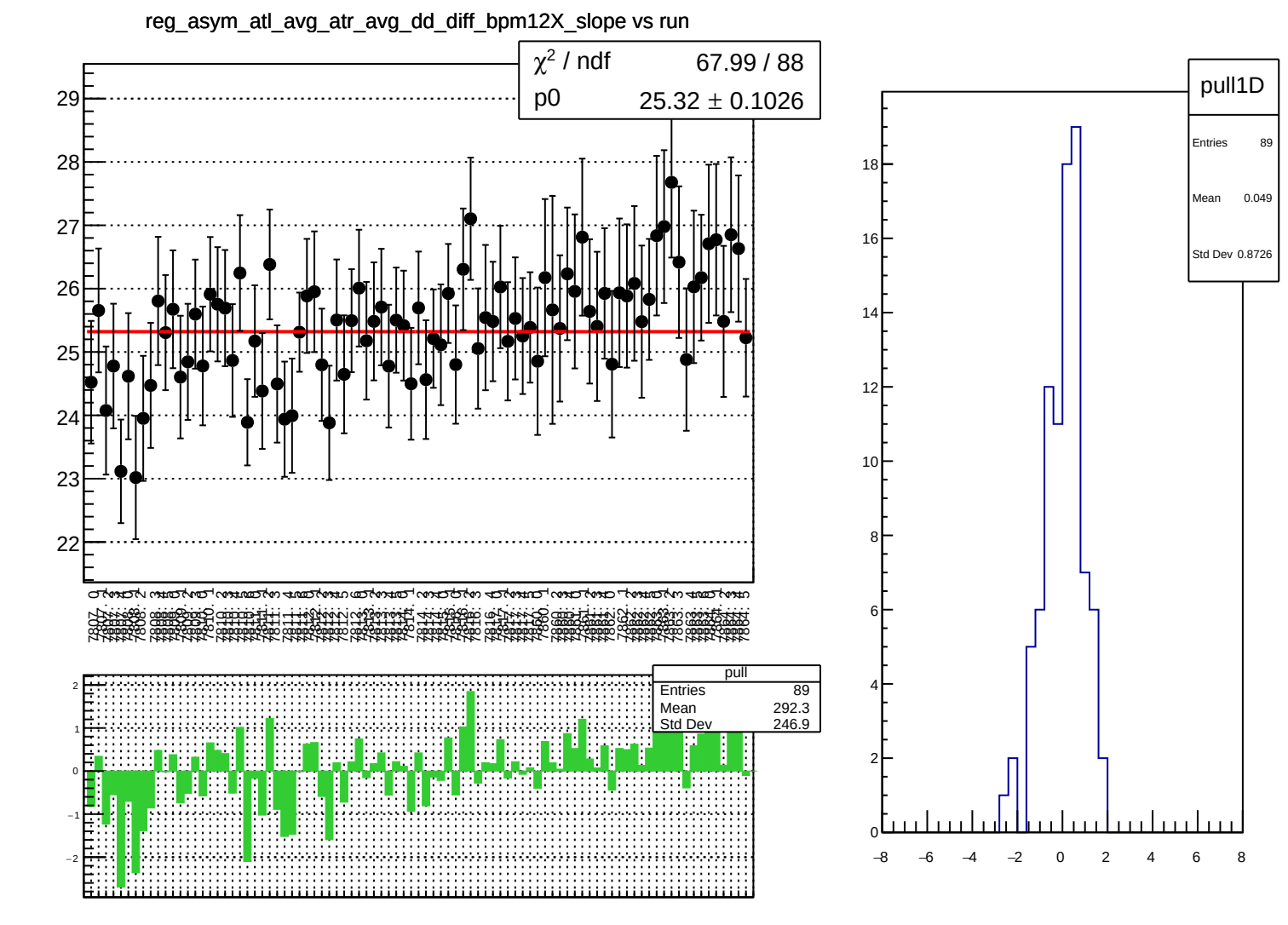

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.39 / 88
p0 −7.422 ± 3.103
pull
Entries 89
Mean −1869
Std Dev 1921

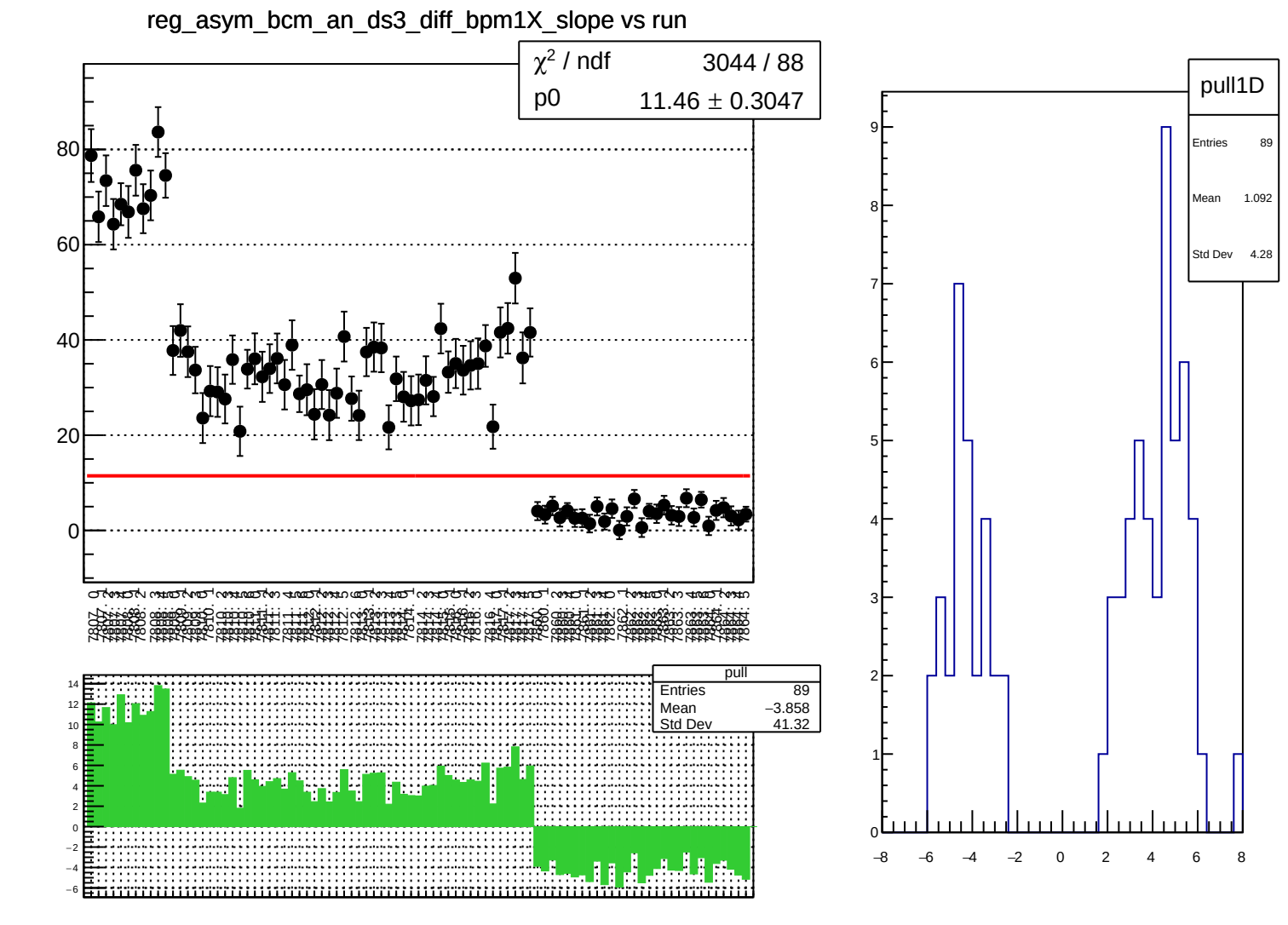

pull1D
Entries 89
Mean −0.0009417
Std Dev 0.6901

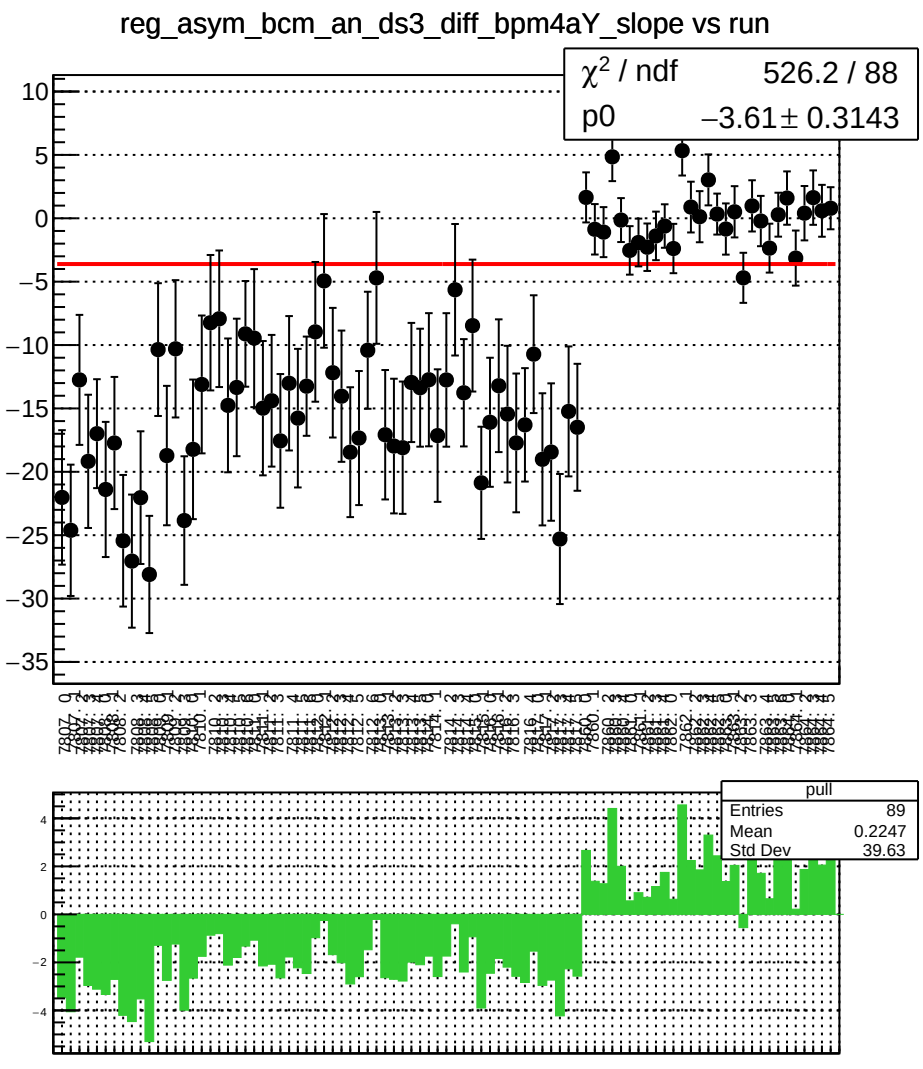

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.77 / 88
p0 −37.07 ± 2.764
pull
Entries 89
Mean 20
Std Dev 92.29

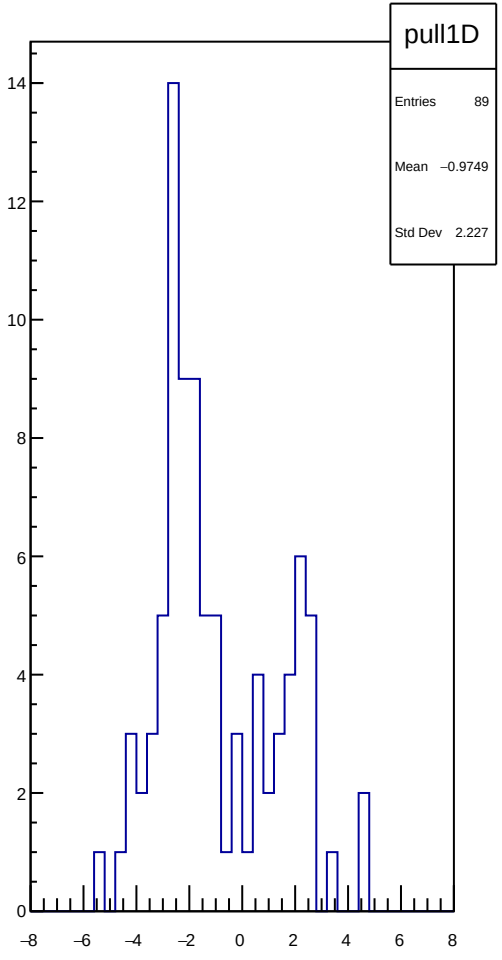

pull1D
Entries 89
Mean 0.00657
Std Dev 0.6685

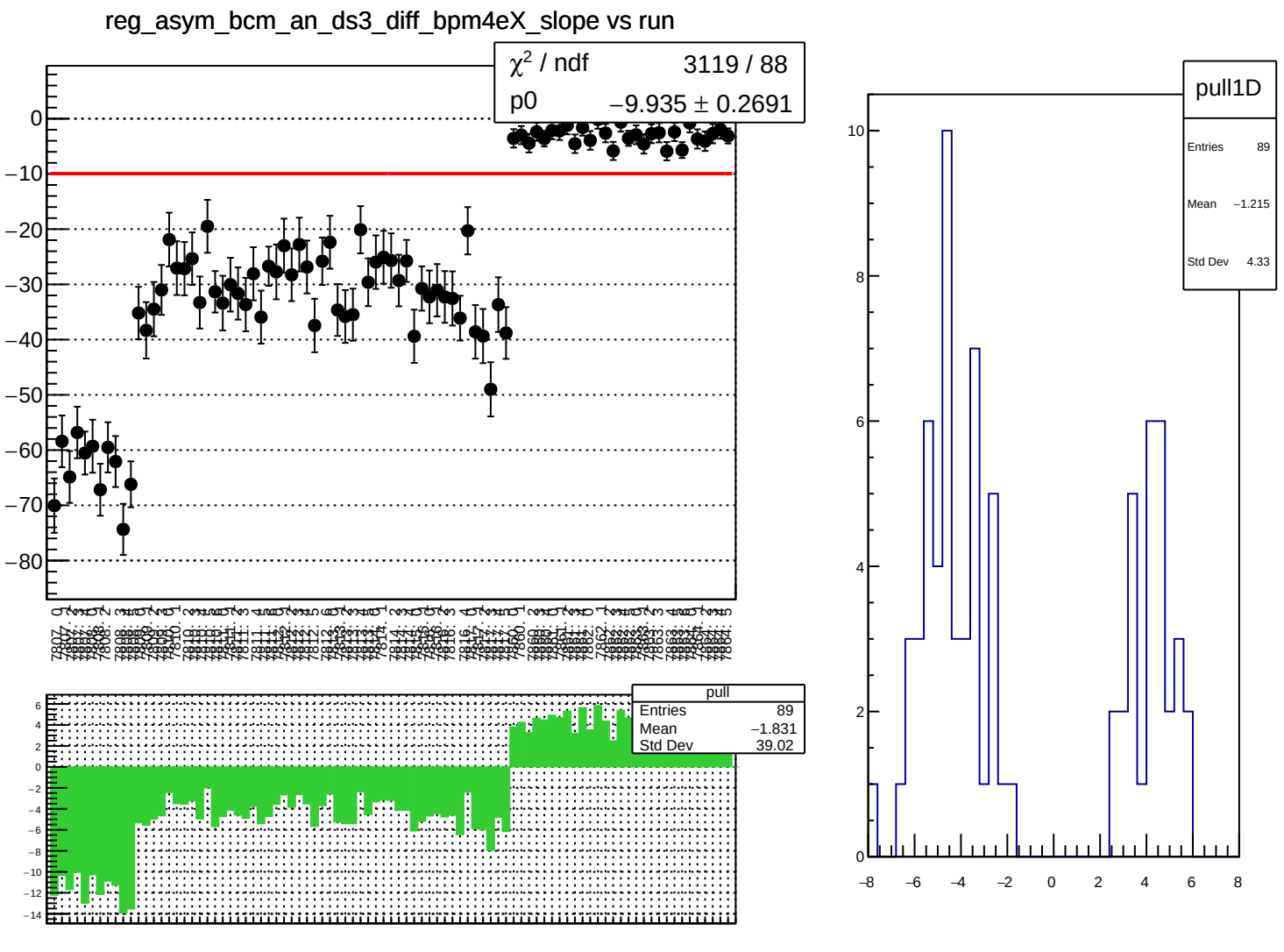

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.55 / 88
p0 1.911 ± 3.534
pull
Entries 89
Mean −55.8
Std Dev 109.3
pull1D
Entries 89
Mean 0.006076
Std Dev 0.6832

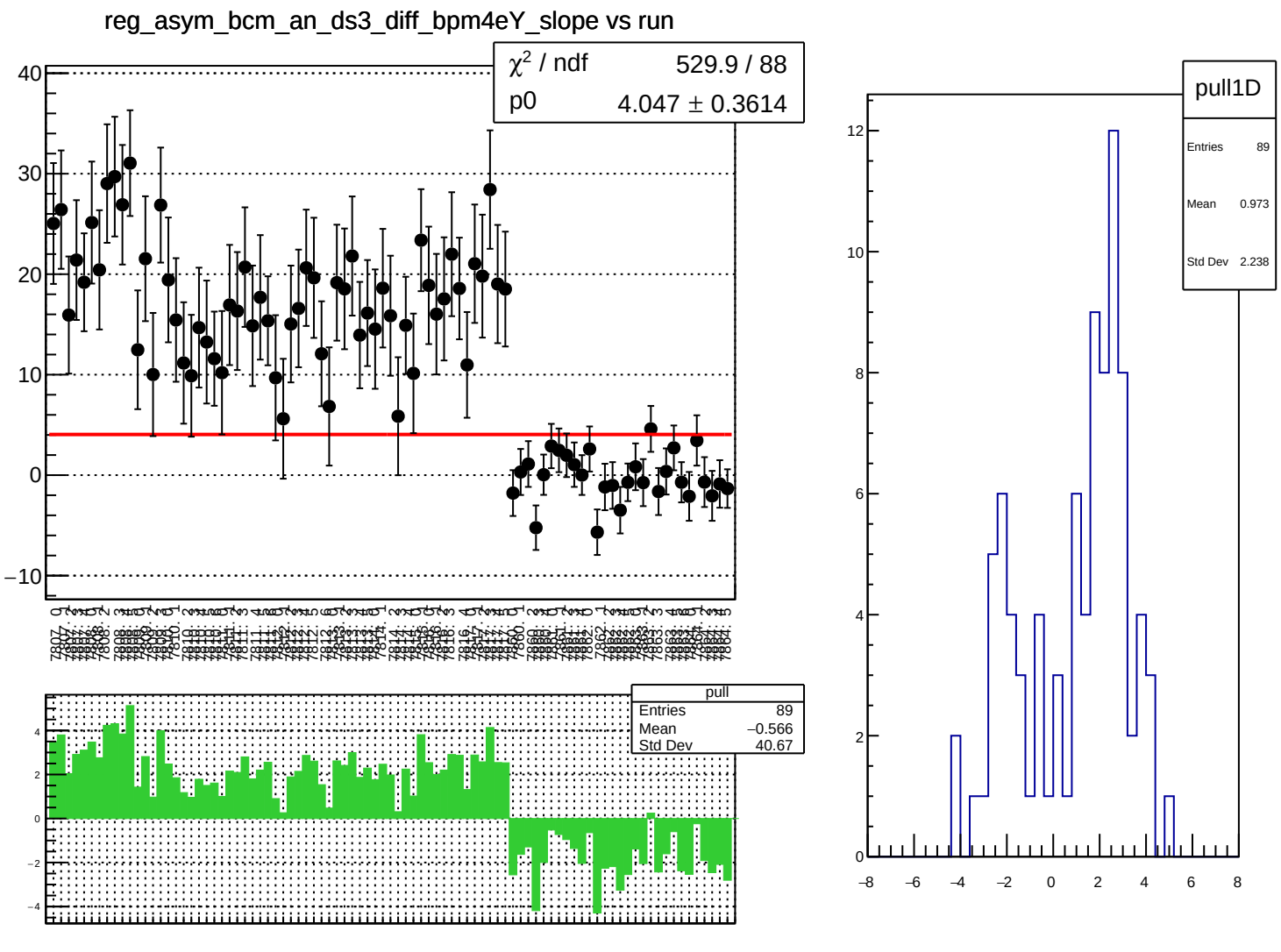

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 67.99 / 88
p0 25.32 ± 0.1026
pull
Entries 89
Mean 292.3
Std Dev 246.9
pull1D
Entries 89
Mean 0.049
Std Dev 0.8726

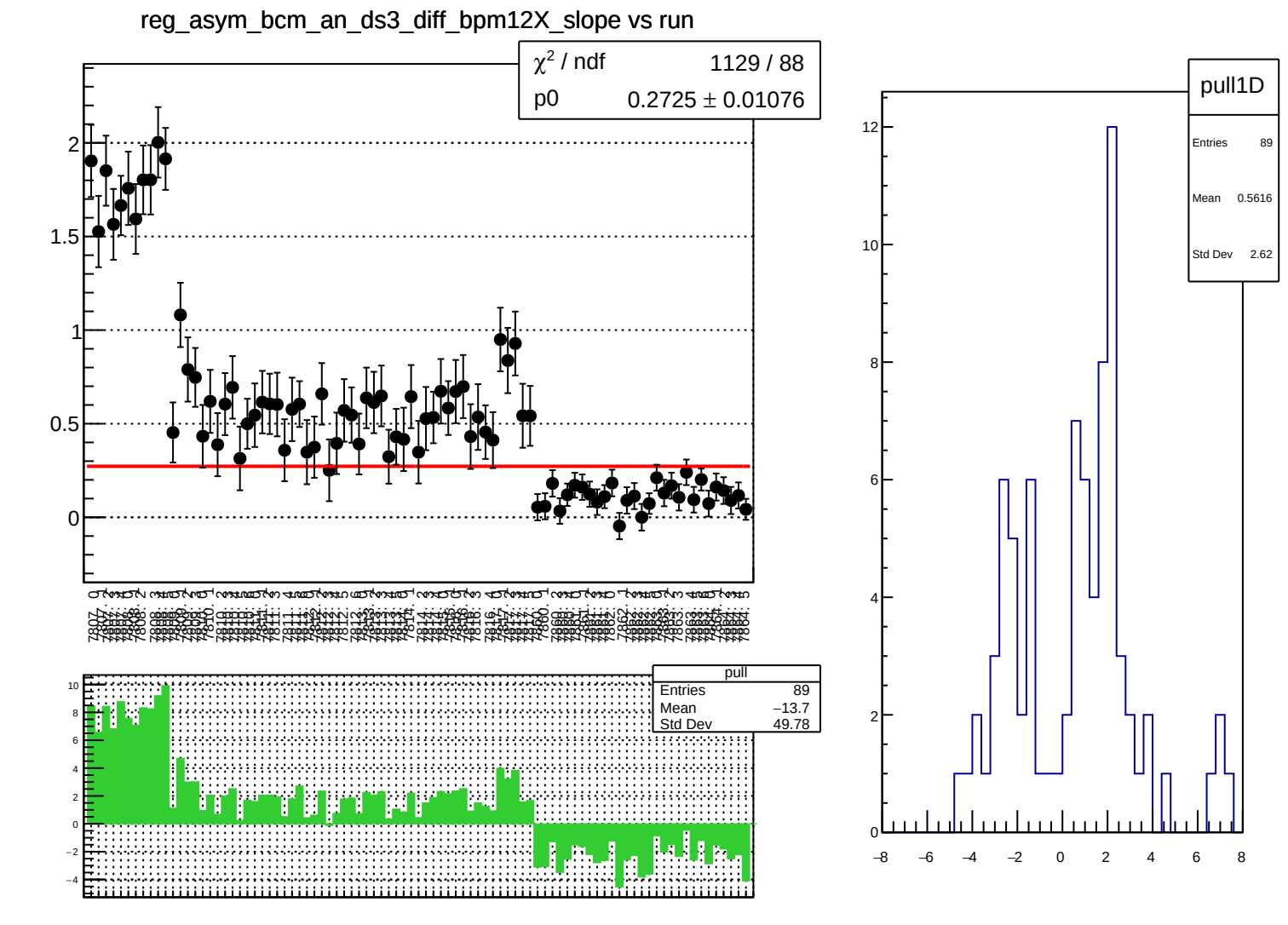

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 3044 / 88
p0 11.46 ± 0.3047
pull
Entries 89
Mean −3.858
Std Dev 41.32
pull1D
Entries 89
Mean 1.092
Std Dev 4.28

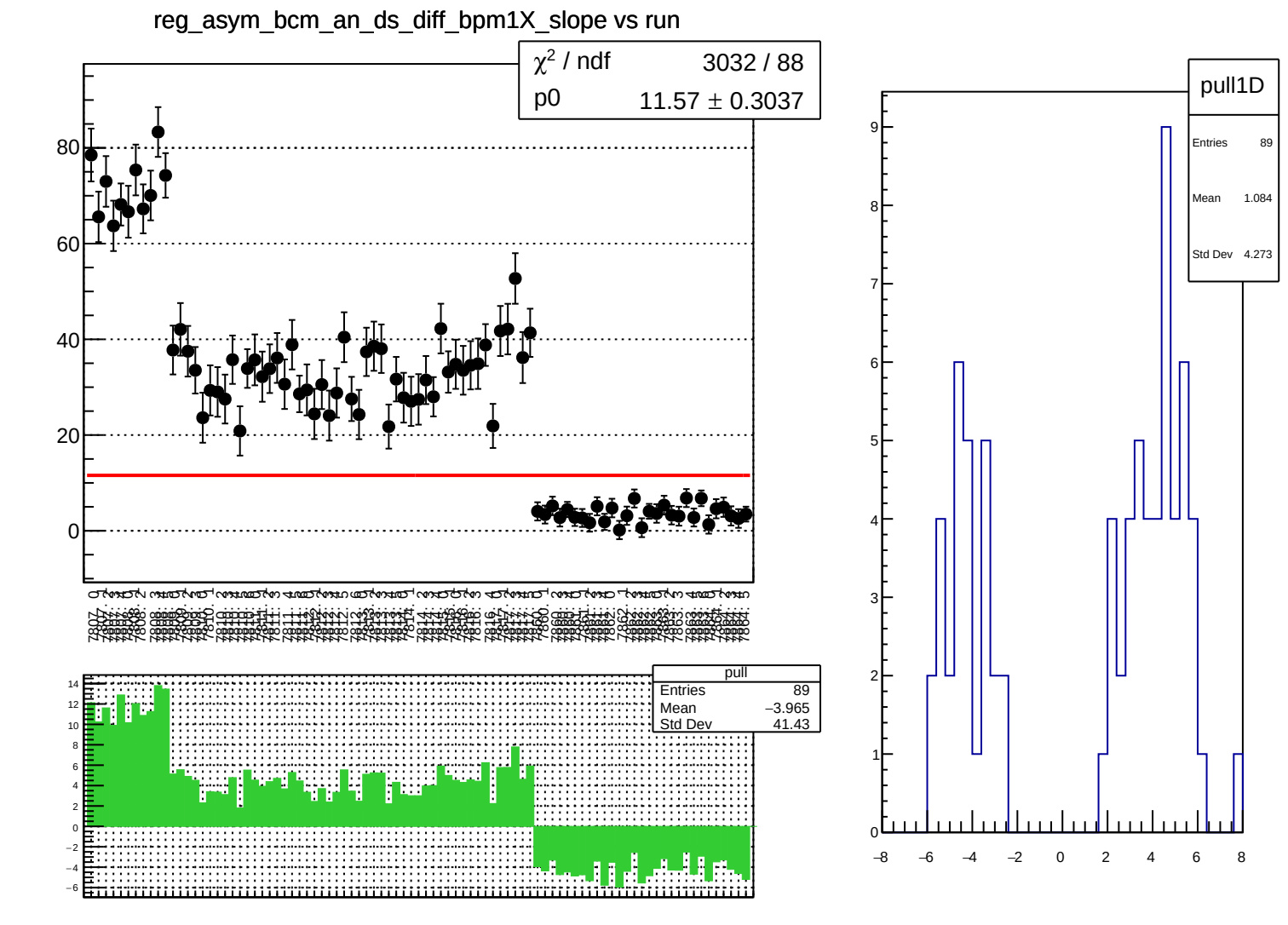

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 526.2 / 88
p0 −3.61 ± 0.3143
pull
Entries 89
Mean 0.2247
Std Dev 39.63

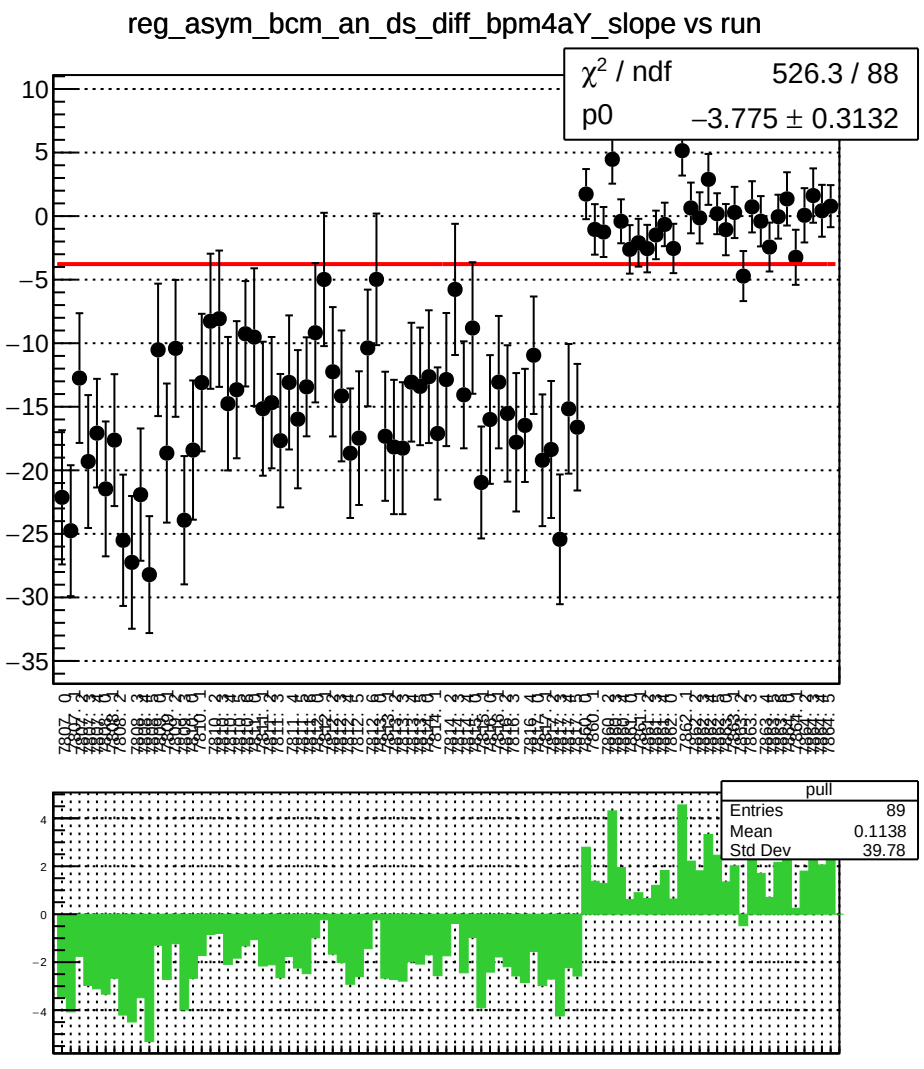

pull1D
Entries 89
Mean −0.9749
Std Dev 2.227

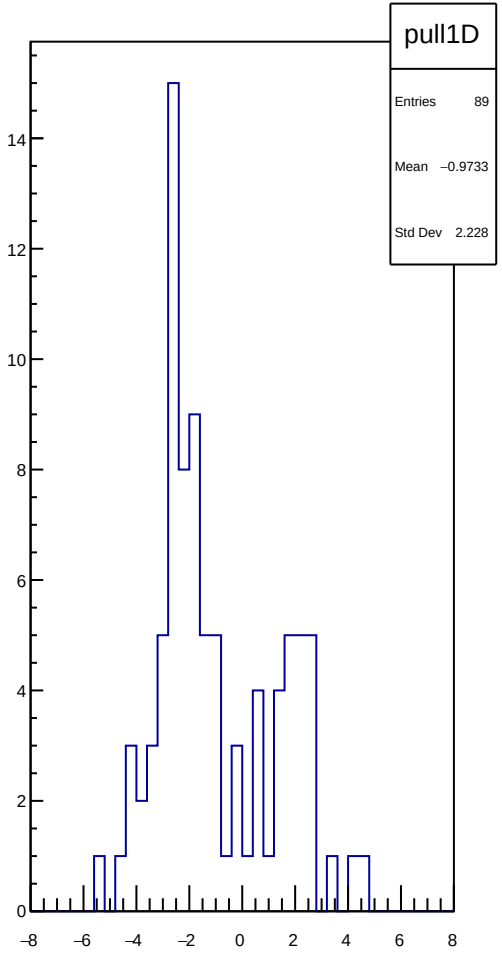

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 3119 / 88
p0 −9.935 ± 0.2691
pull
Entries 89
Mean −1.831
Std Dev 39.02
pull1D
Entries 89
Mean −1.215
Std Dev 4.33

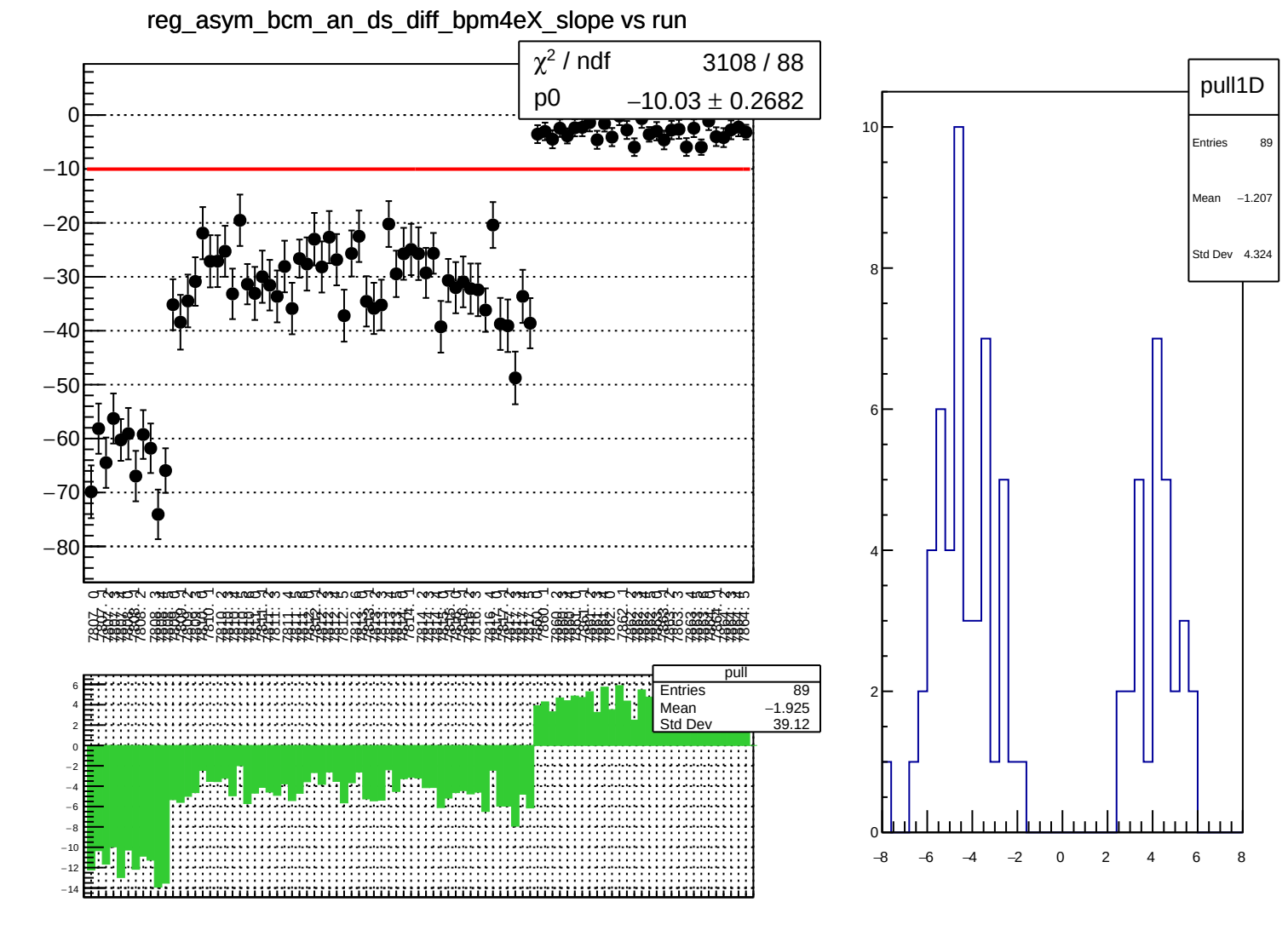

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 529.9 / 88
p0 4.047 ± 0.3614
pull
Entries 89
Mean −0.566
Std Dev 40.67
pull1D
Entries 89
Mean 0.973
Std Dev 2.238

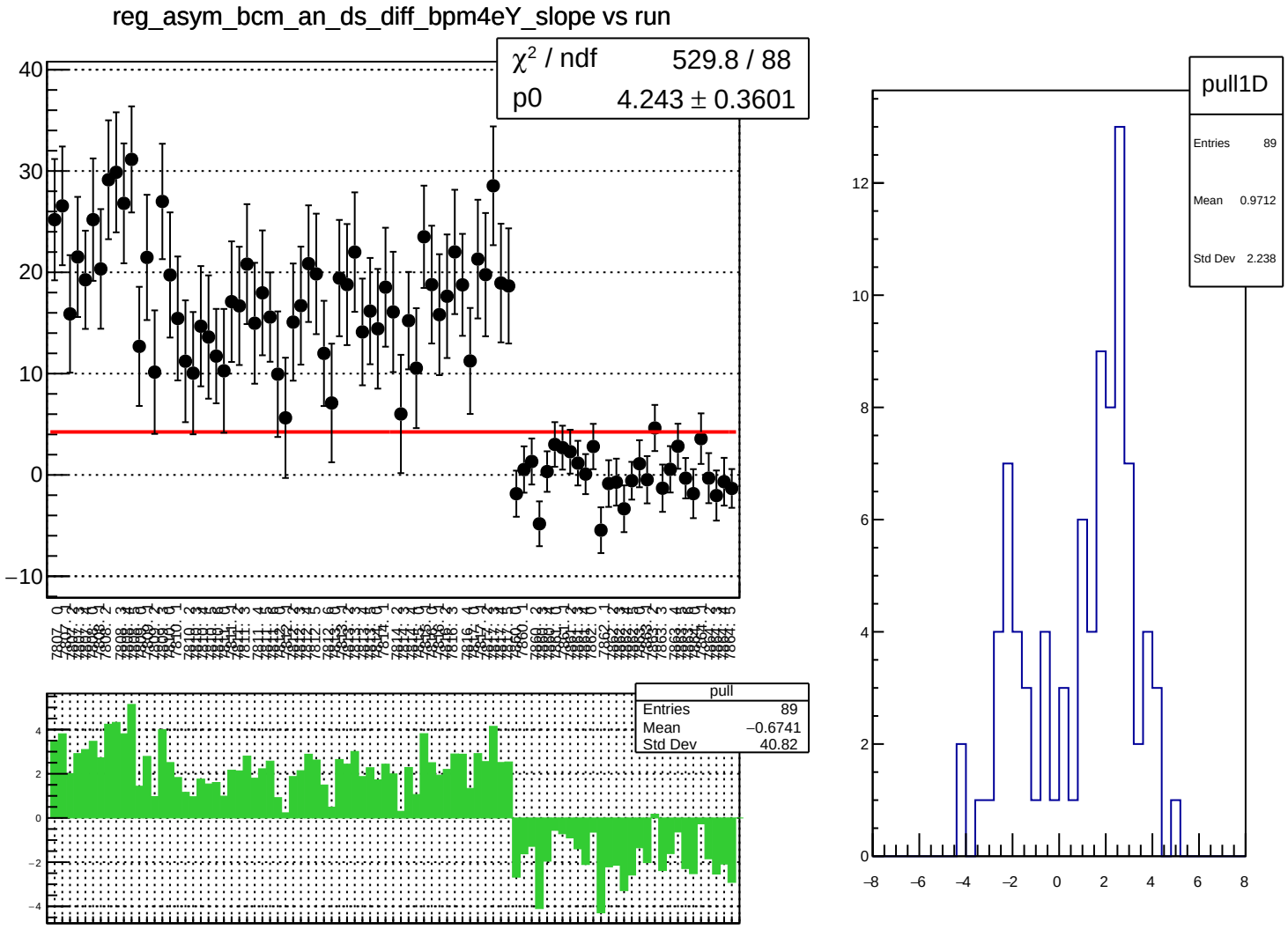

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 1129 / 88
p0 0.2725 ± 0.01076
pull
Entries 89
Mean −13.7
Std Dev 49.78
pull1D
Entries 89
Mean 0.5616
Std Dev 2.62

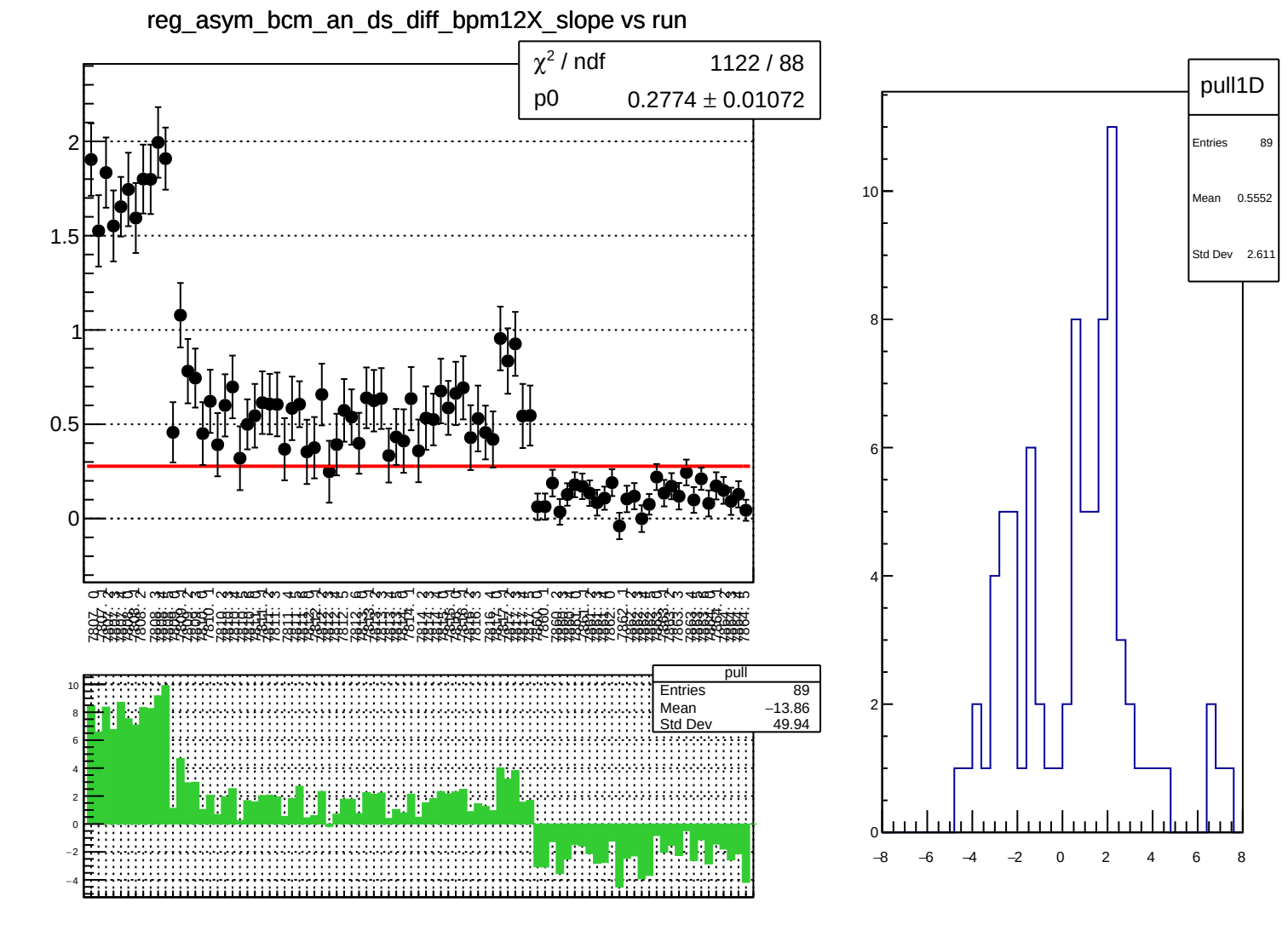

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 3032 / 88
p0 11.57 ± 0.3037
pull
Entries 89
Mean −3.965
Std Dev 41.43
pull1D
Entries 89
Mean 1.084
Std Dev 4.273

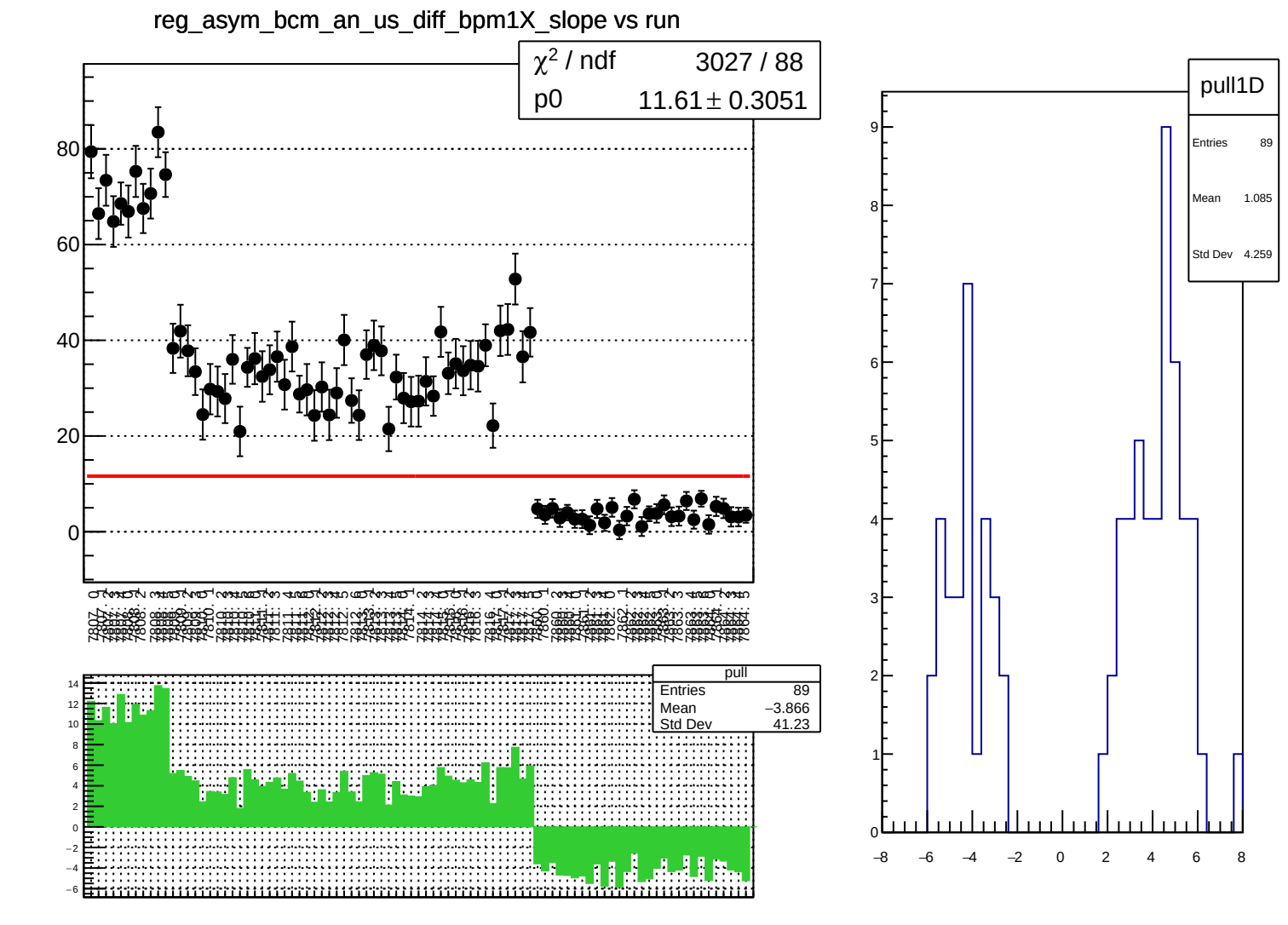

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 526.3 / 88
p0 −3.775 ± 0.3132
pull
Entries 89
Mean 0.1138
Std Dev 39.78

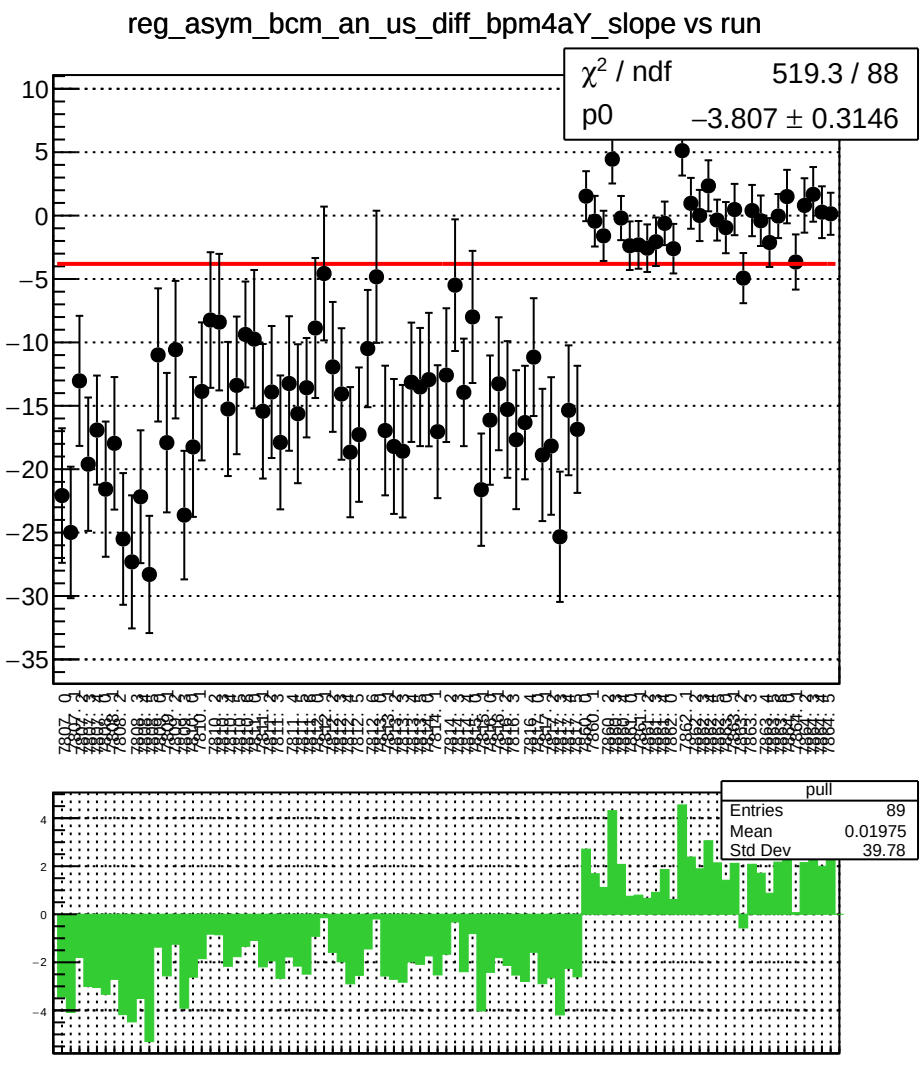

pull1D
Entries 89
Mean −0.9733
Std Dev 2.228

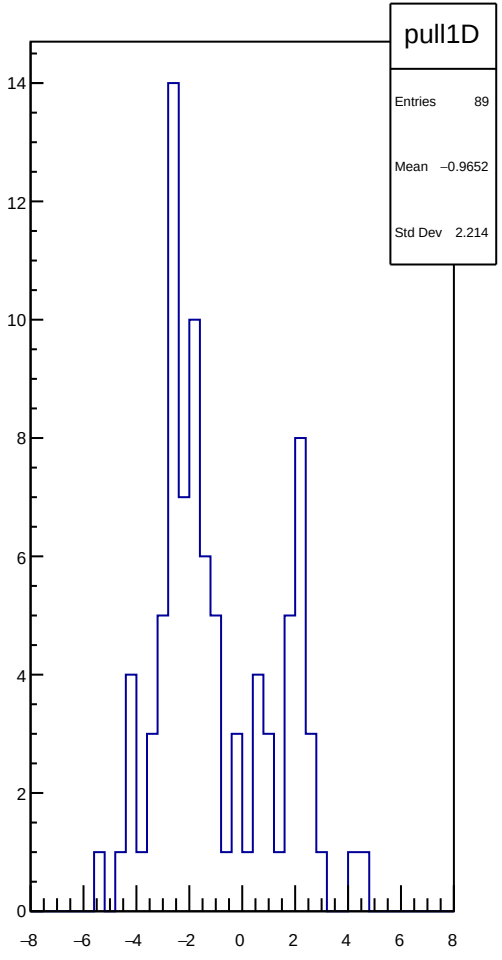

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 3108 / 88
p0 −10.03 ± 0.2682
pull
Entries 89
Mean −1.925
Std Dev 39.12
pull1D
Entries 89
Mean −1.207
Std Dev 4.324

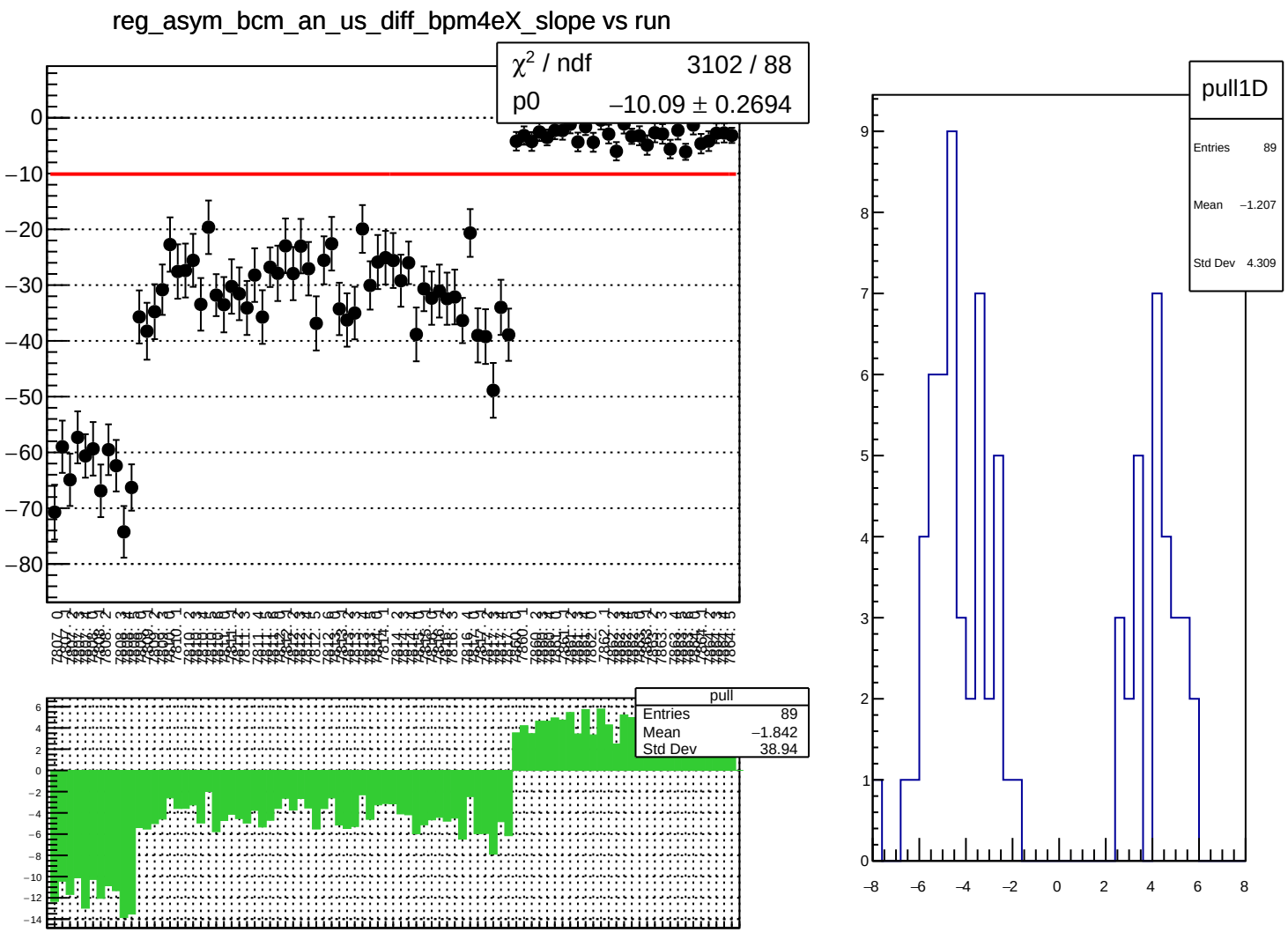

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 529.8 / 88
p0 4.243 ± 0.3601
pull
Entries 89
Mean −0.6741
Std Dev 40.82
pull1D
Entries 89
Mean 0.9712
Std Dev 2.238

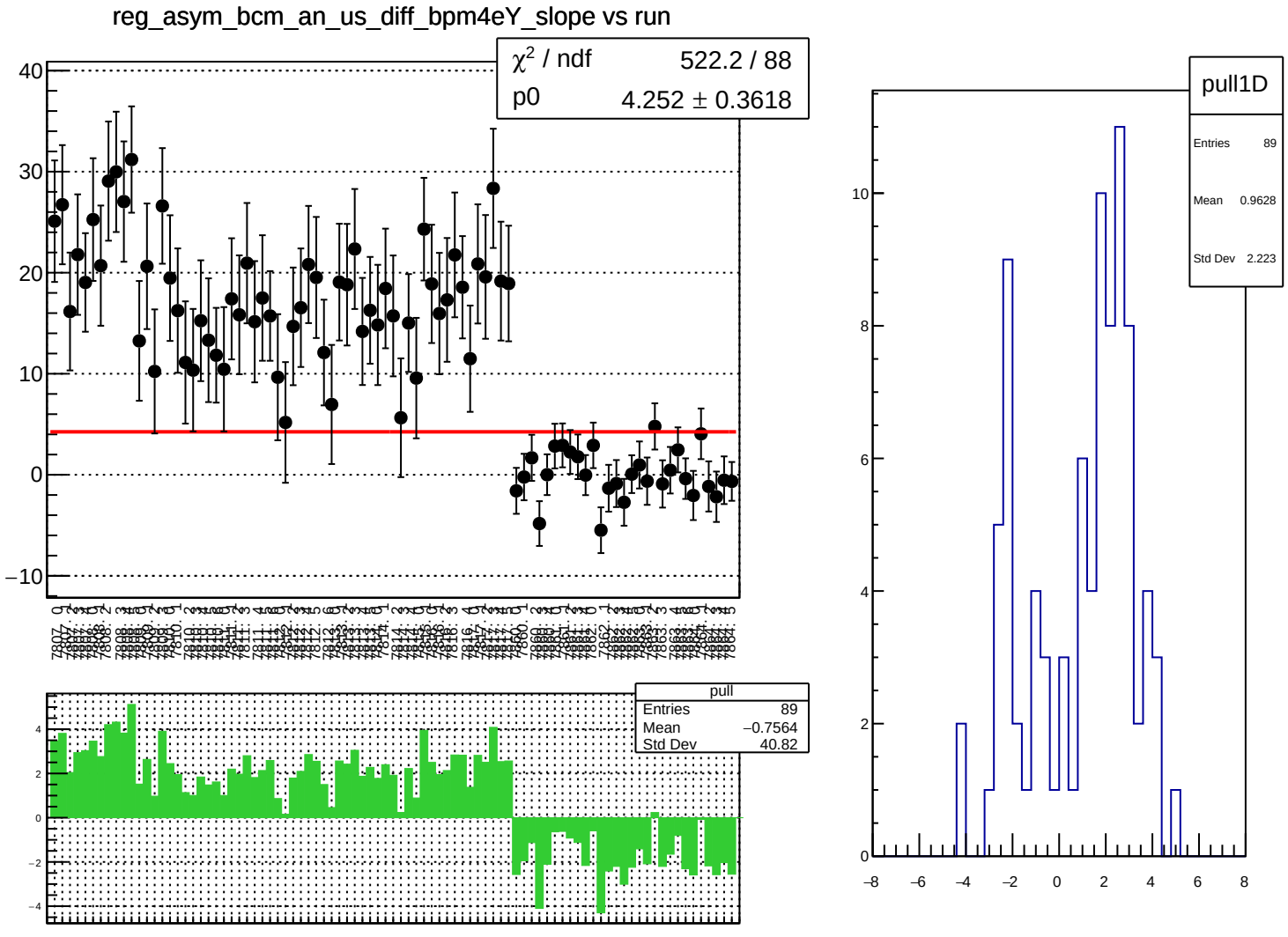

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 1122 / 88
p0 0.2774 ± 0.01072
pull
Entries 89
Mean −13.86
Std Dev 49.94
pull1D
Entries 89
Mean 0.5552
Std Dev 2.611

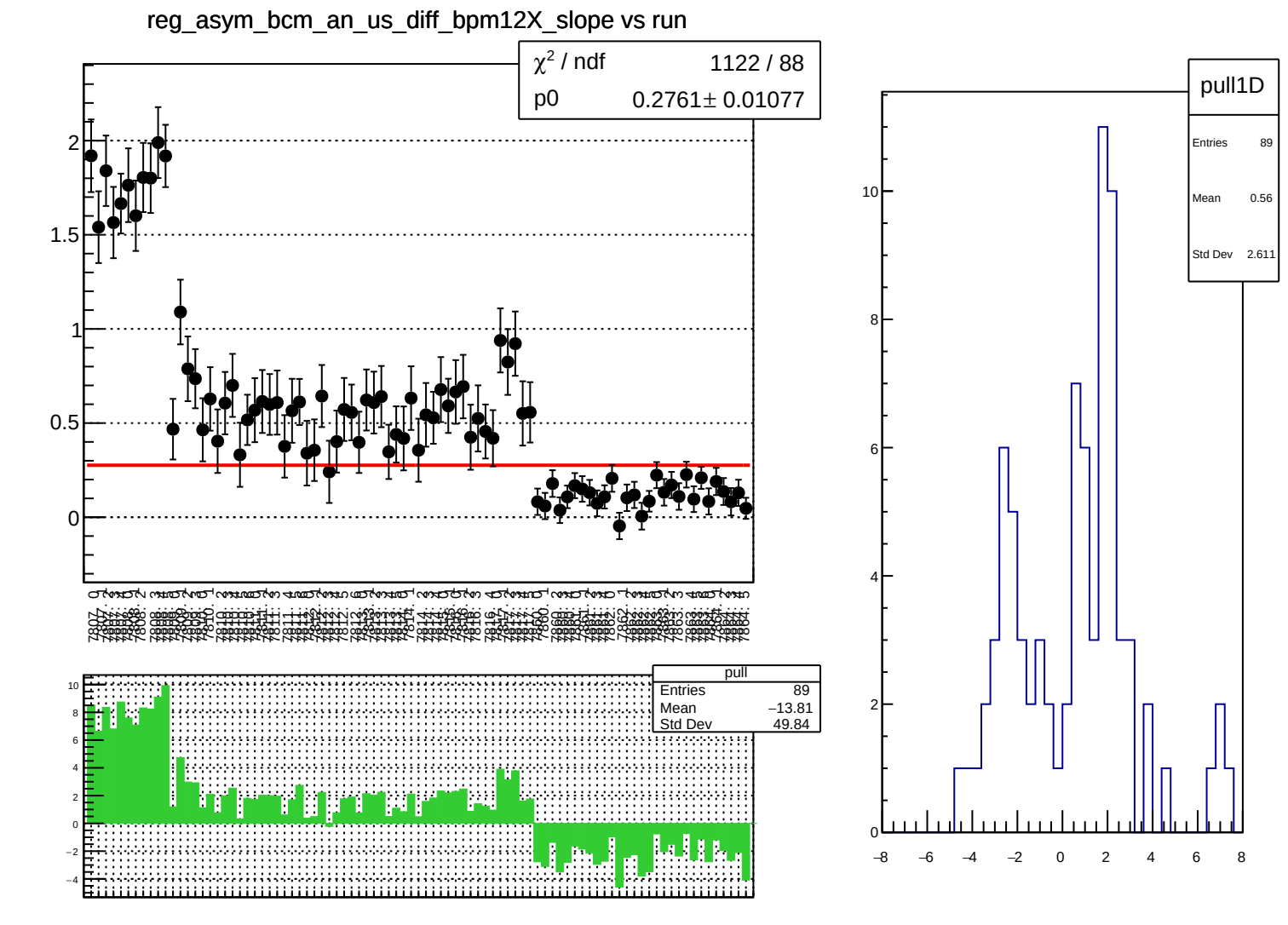

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 3027 / 88
p0 11.61 ± 0.3051
pull
Entries 89
Mean −3.866
Std Dev 41.23
pull1D
Entries 89
Mean 1.085
Std Dev 4.259

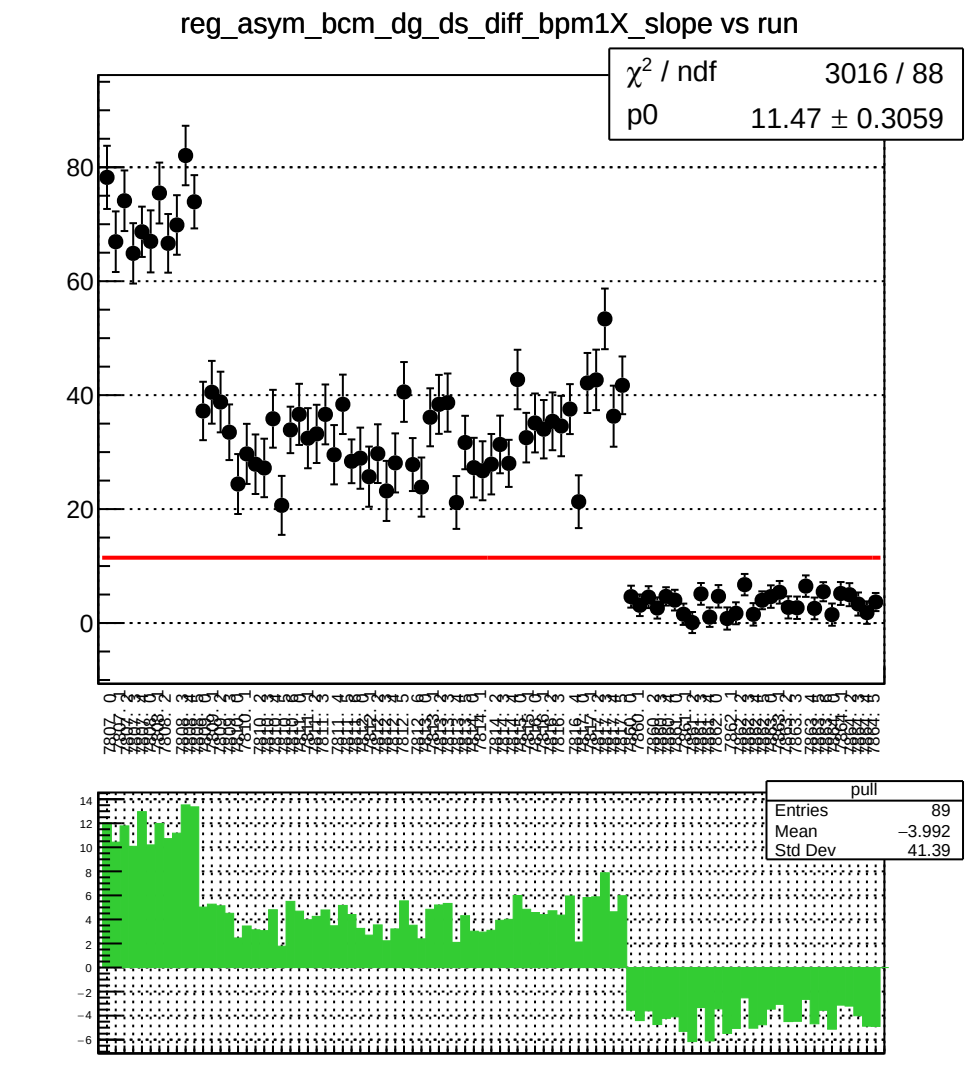

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 519.3 / 88
p0 −3.807 ± 0.3146
pull
Entries 89
Mean 0.01975
Std Dev 39.78

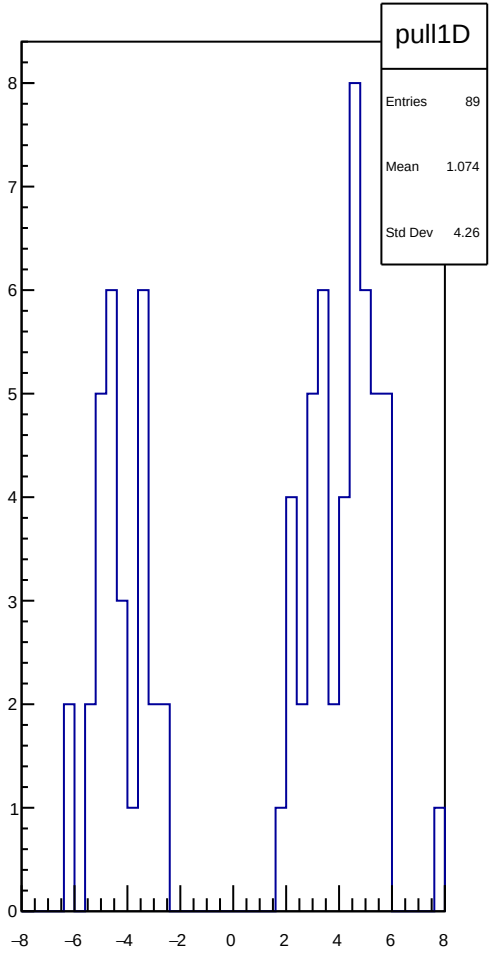

pull1D
Entries 89
Mean −0.9652
Std Dev 2.214

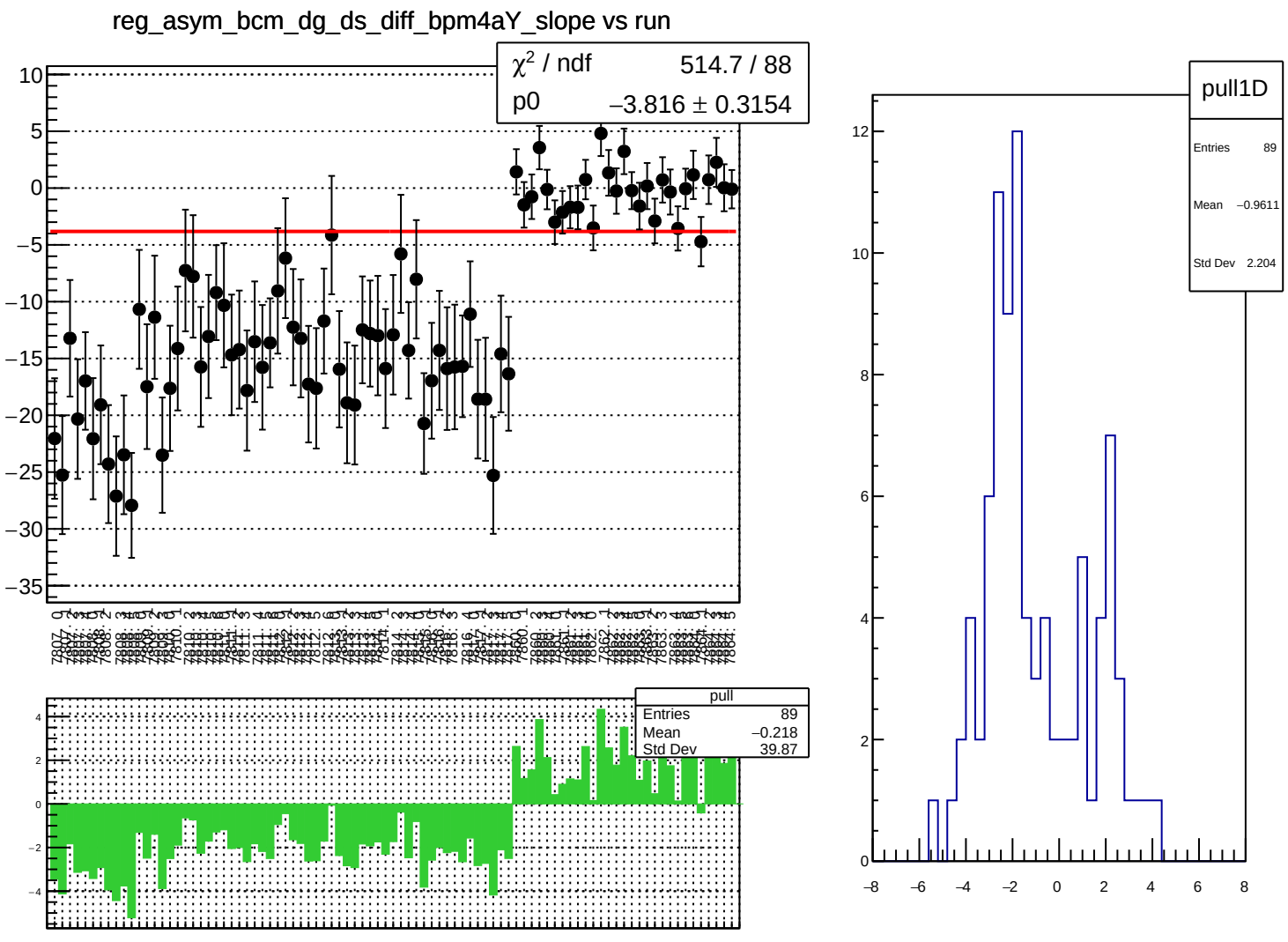

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 3102 / 88
p0 −10.09 ± 0.2694
pull
Entries 89
Mean −1.842
Std Dev 38.94
pull1D
Entries 89
Mean −1.207
Std Dev 4.309

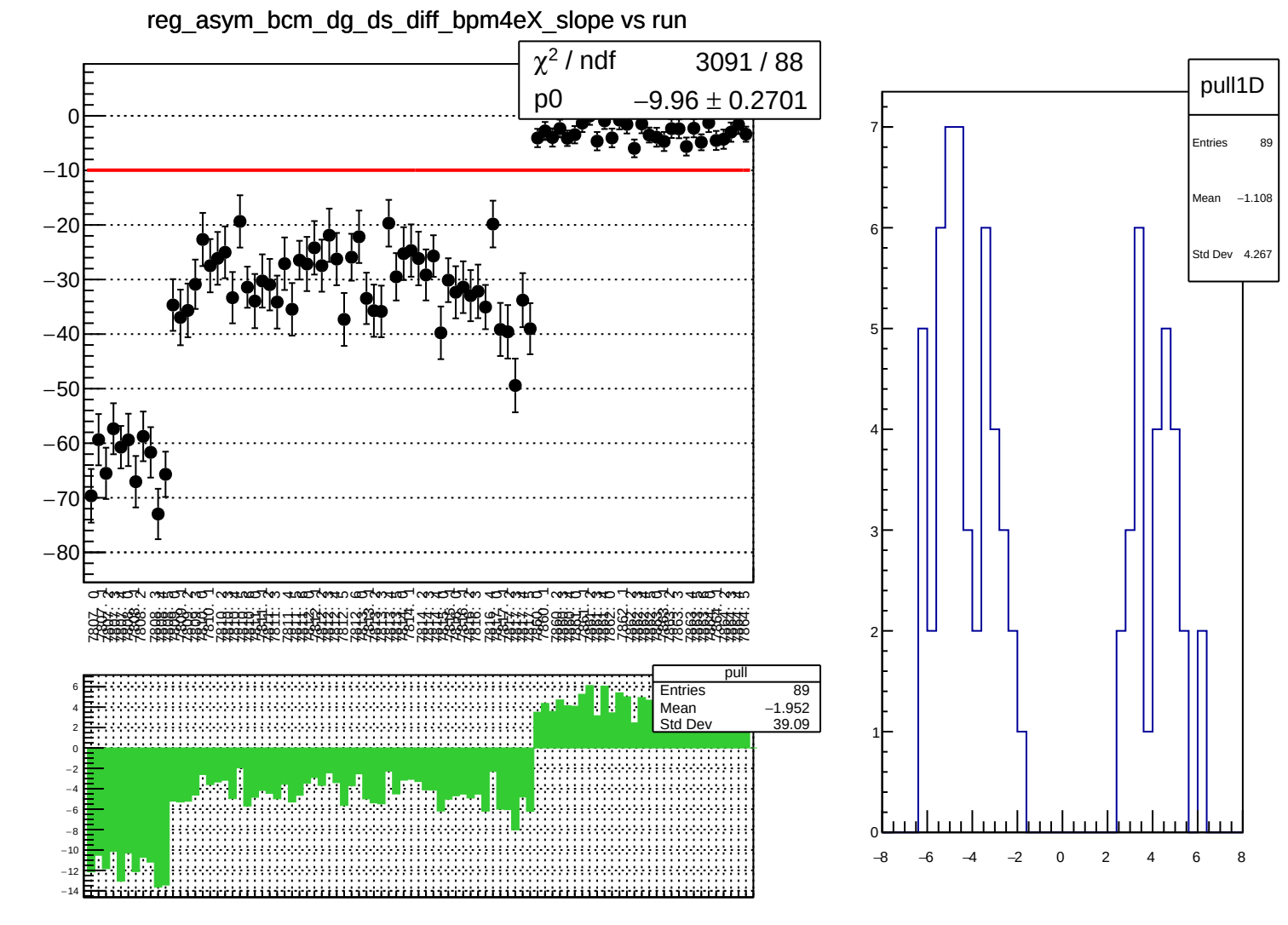

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 522.2 / 88
p0 4.252 ± 0.3618
pull
Entries 89
Mean −0.7564
Std Dev 40.82
pull1D
Entries 89
Mean 0.9628
Std Dev 2.223

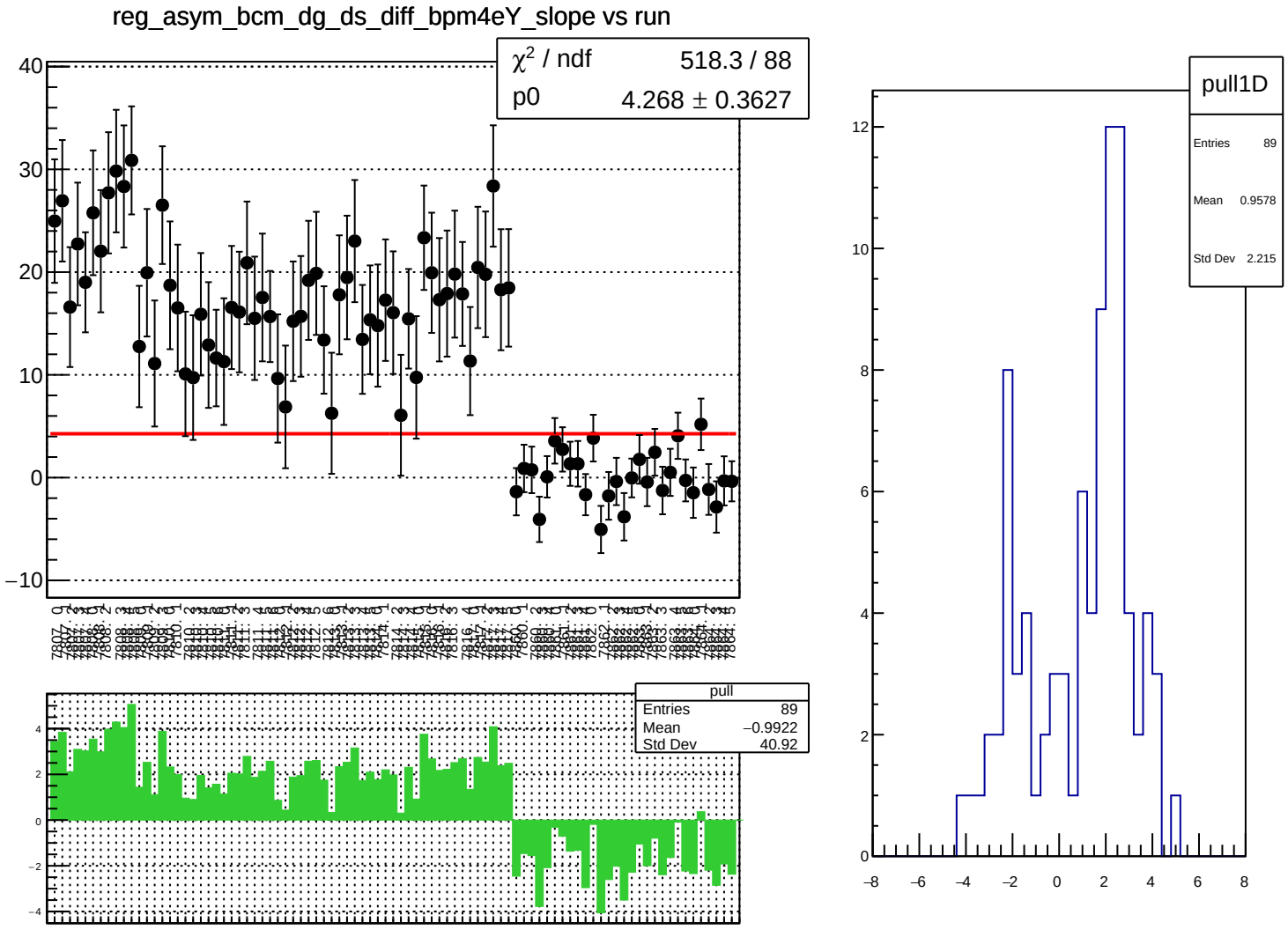

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 1122 / 88
p0 0.2761± 0.01077
pull
Entries 89
Mean −13.81
Std Dev 49.84
pull1D
Entries 89
Mean 0.56
Std Dev 2.611

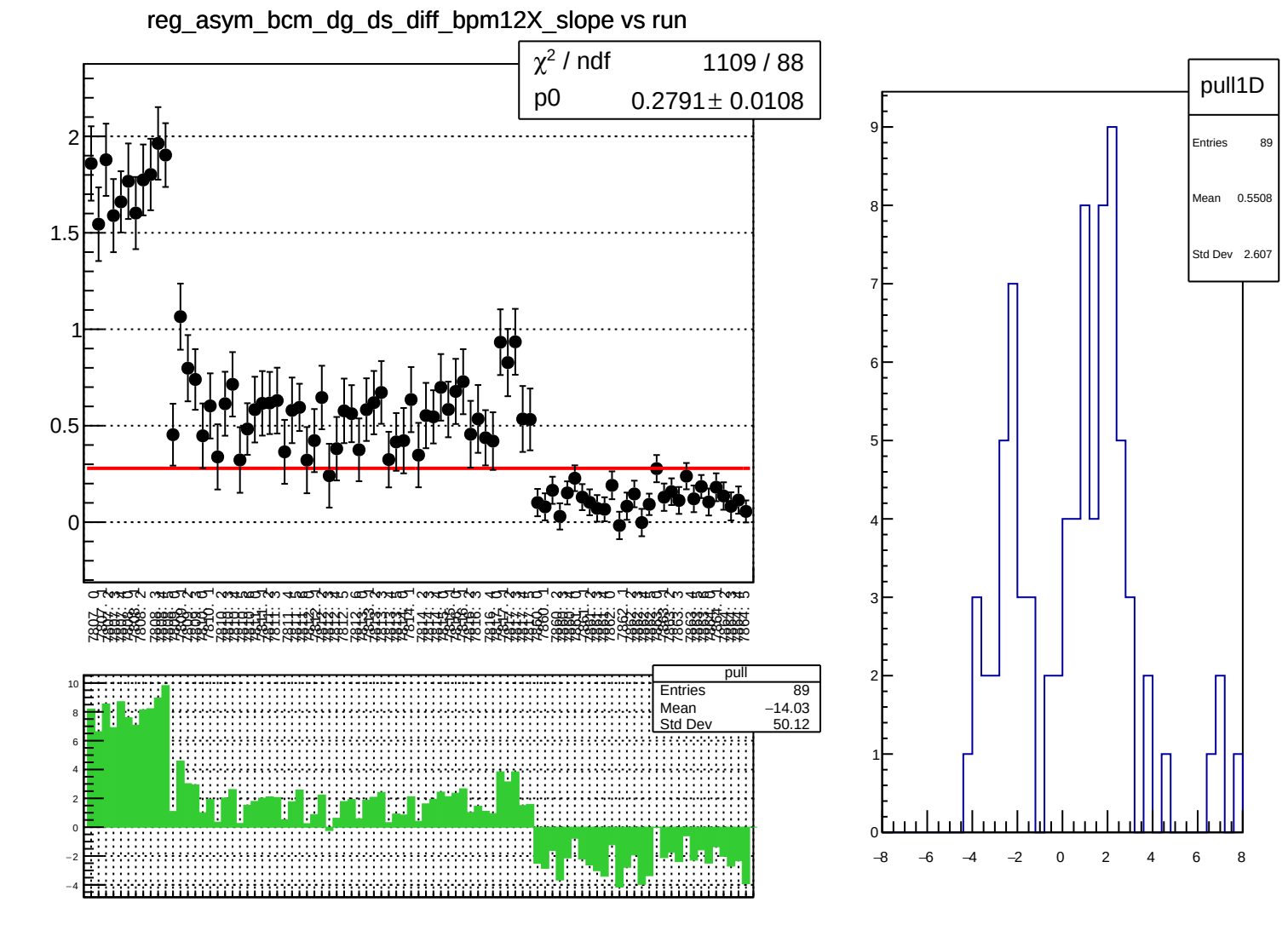

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 3016 / 88
p0 11.47 ± 0.3059
pull
Entries 89
Mean −3.992
Std Dev 41.39

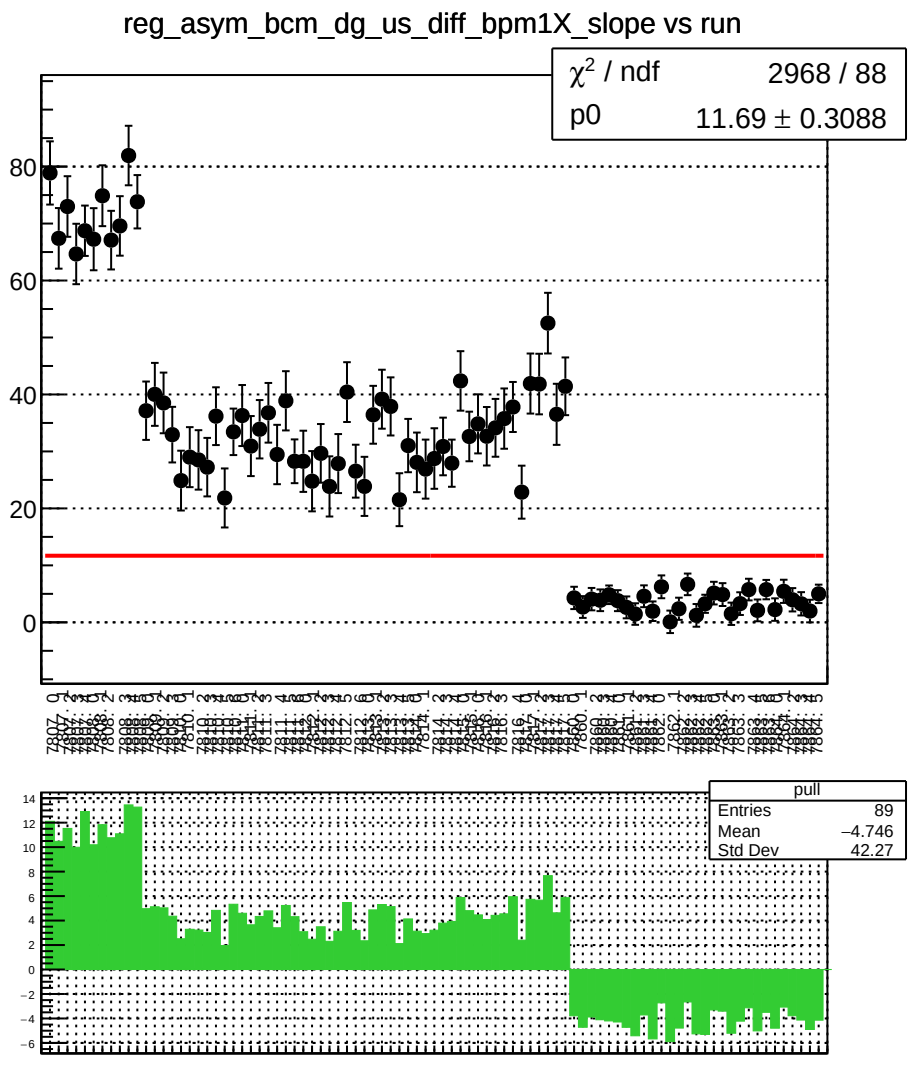

pull1D
Entries 89
Mean 1.074
Std Dev 4.26

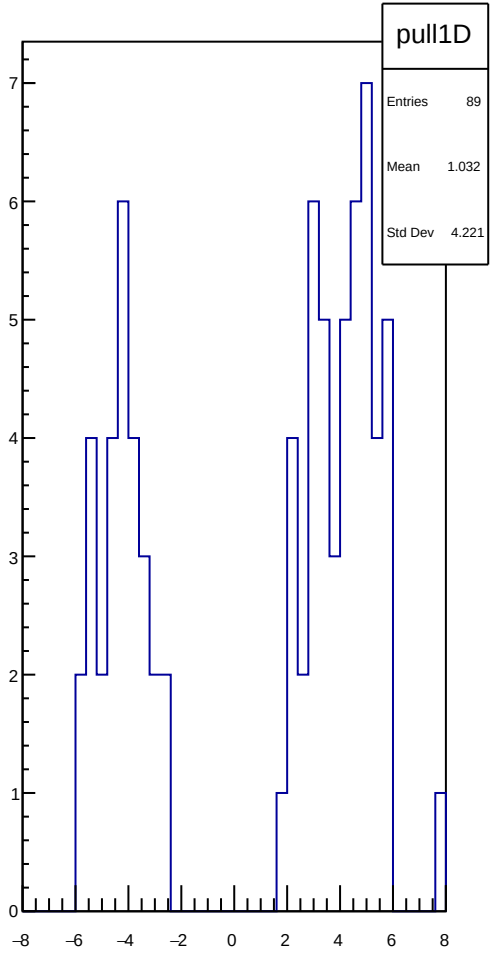

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 514.7 / 88
p0 −3.816 ± 0.3154
pull
Entries 89
Mean −0.218
Std Dev 39.87
pull1D
Entries 89
Mean −0.9611
Std Dev 2.204

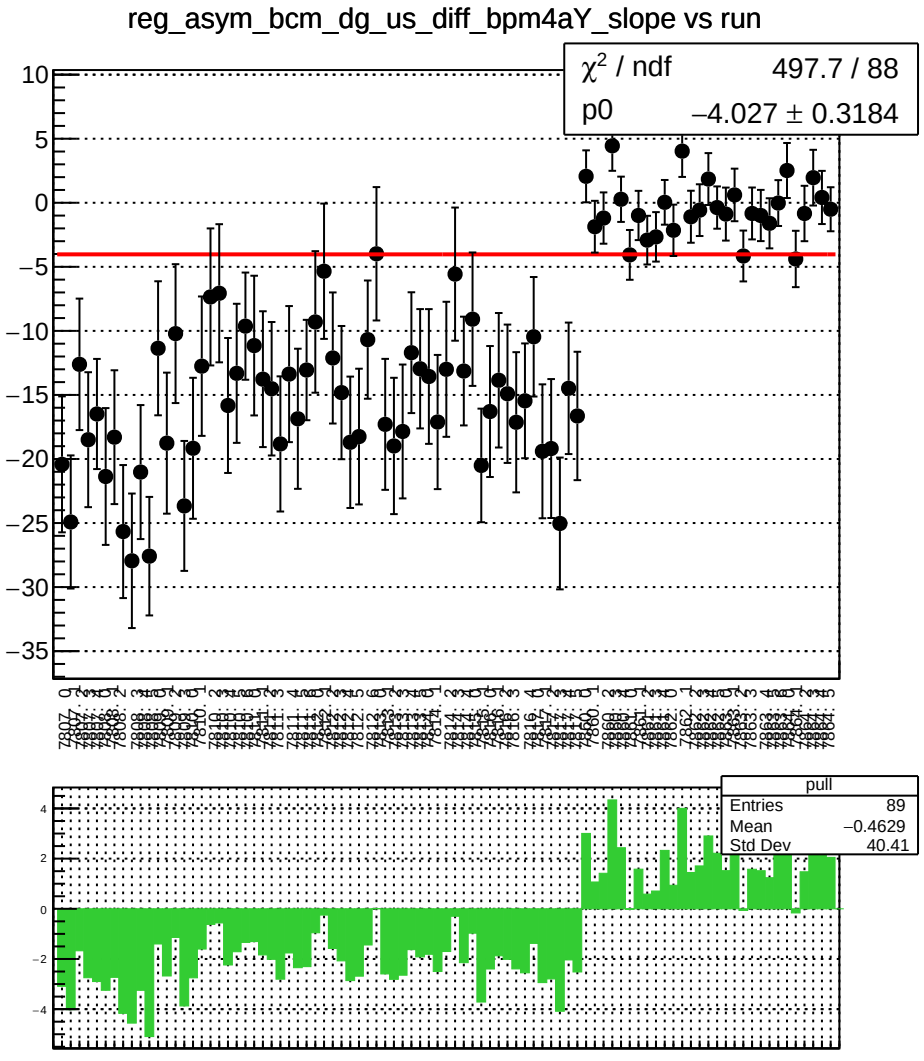

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 3091 / 88
p0 −9.96 ± 0.2701
pull
Entries 89
Mean −1.952
Std Dev 39.09
pull1D
Entries 89
Mean −1.108
Std Dev 4.267

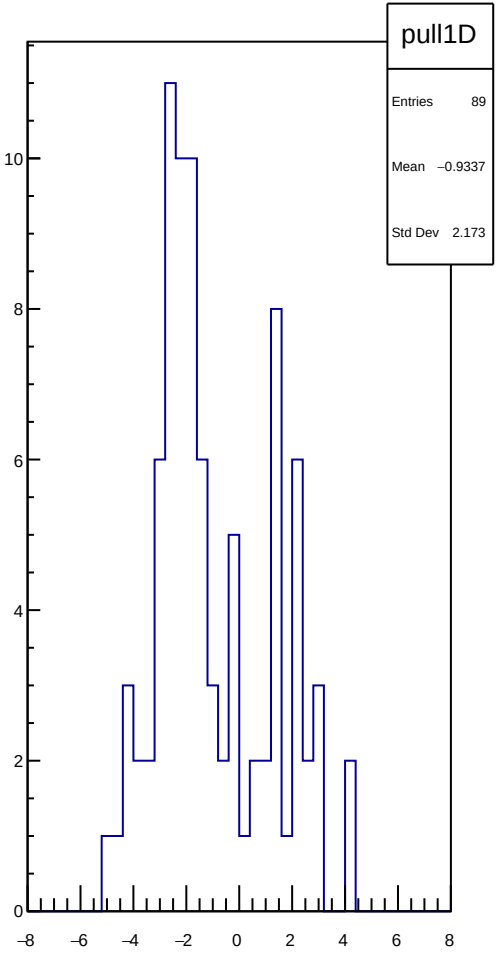

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 518.3 / 88
p0 4.268 ± 0.3627
pull
Entries 89
Mean −0.9922
Std Dev 40.92
pull1D
Entries 89
Mean 0.9578
Std Dev 2.215

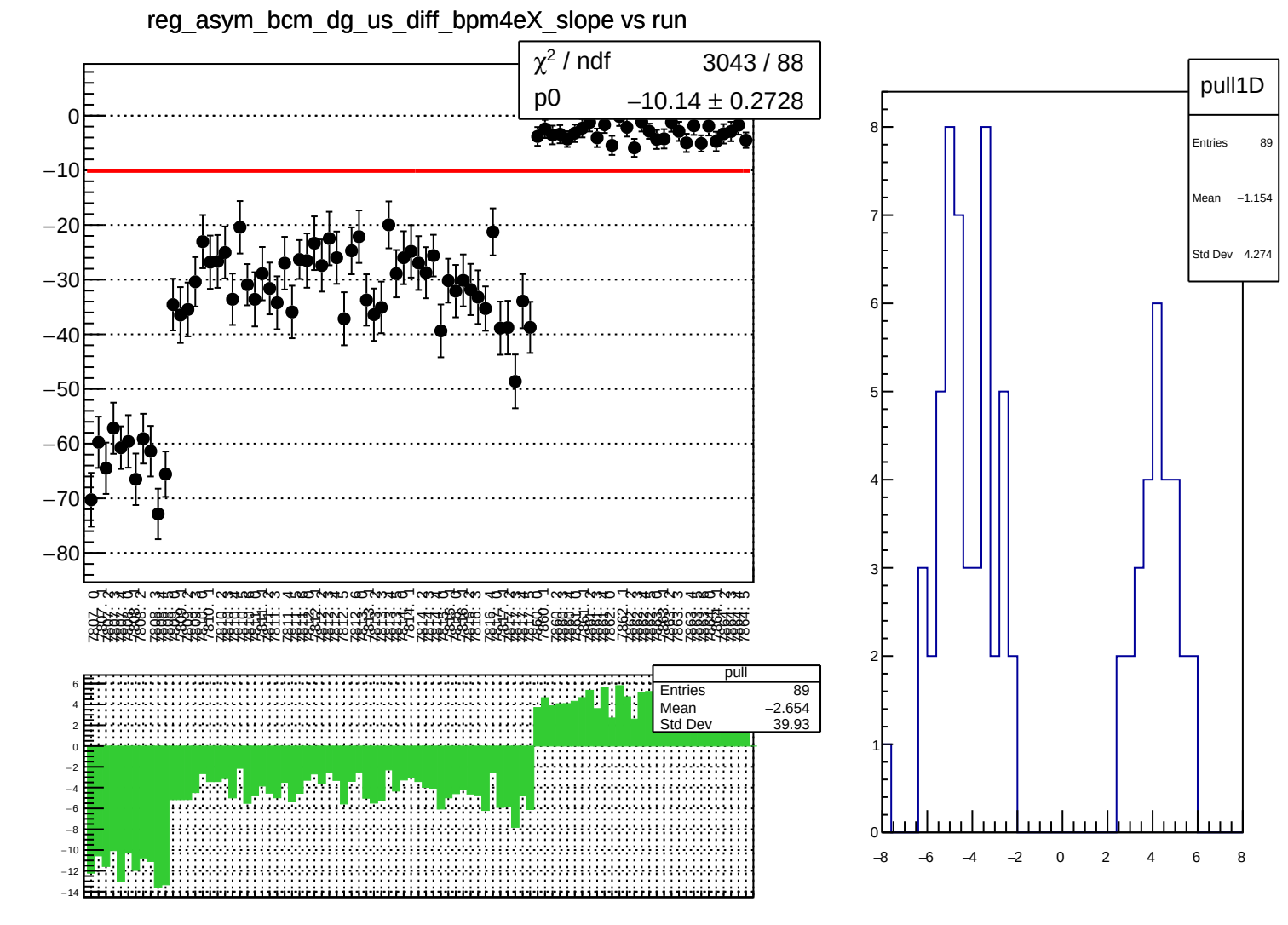

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 1109 / 88
p0 0.2791 ± 0.0108
pull
Entries 89
Mean −14.03
Std Dev 50.12
pull1D
Entries 89
Mean 0.5508
Std Dev 2.607

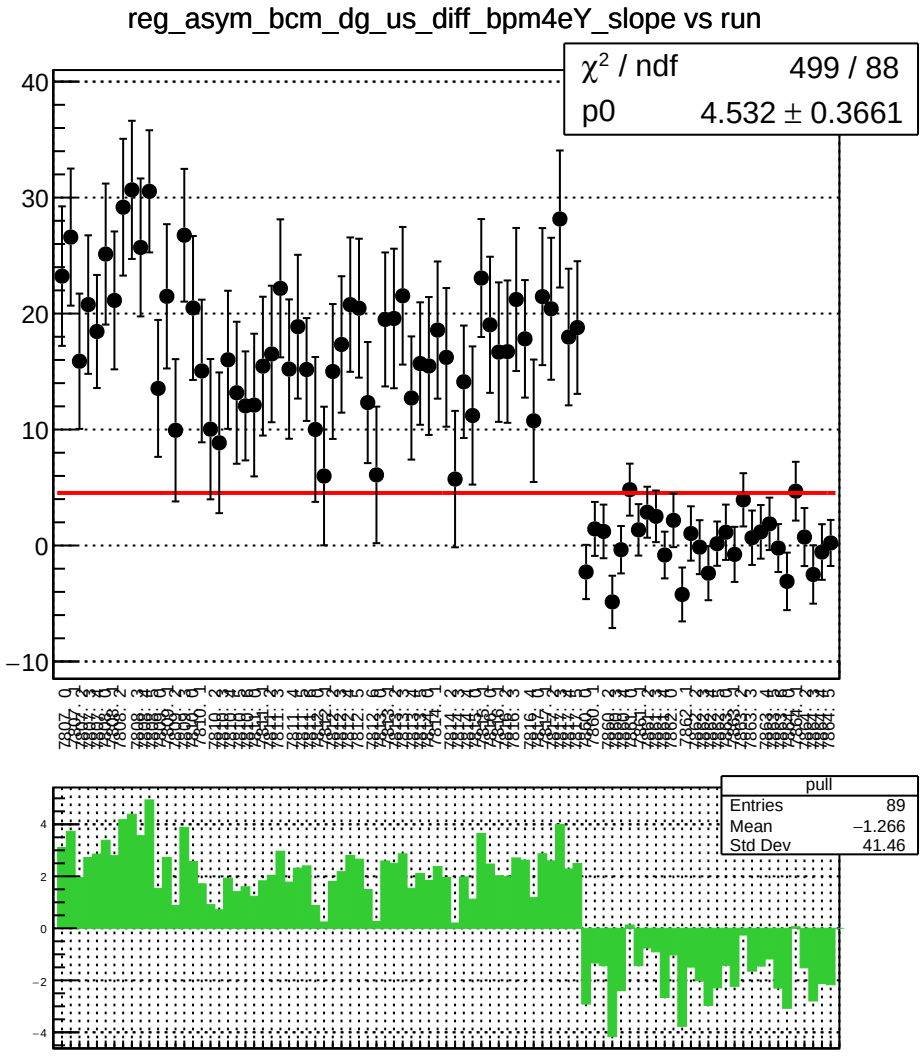

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 2968 / 88
p0 11.69 ± 0.3088
pull
Entries 89
Mean −4.746
Std Dev 42.27

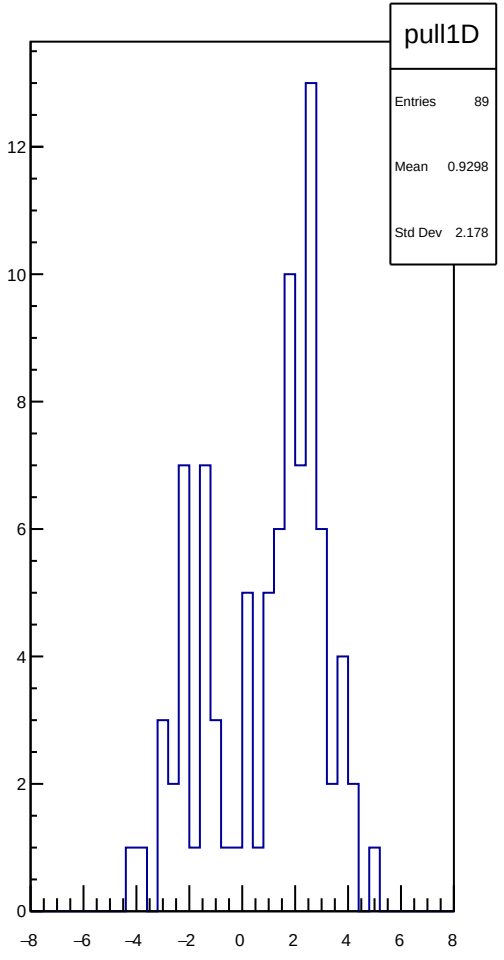

pull1D
Entries 89
Mean 1.032
Std Dev 4.221

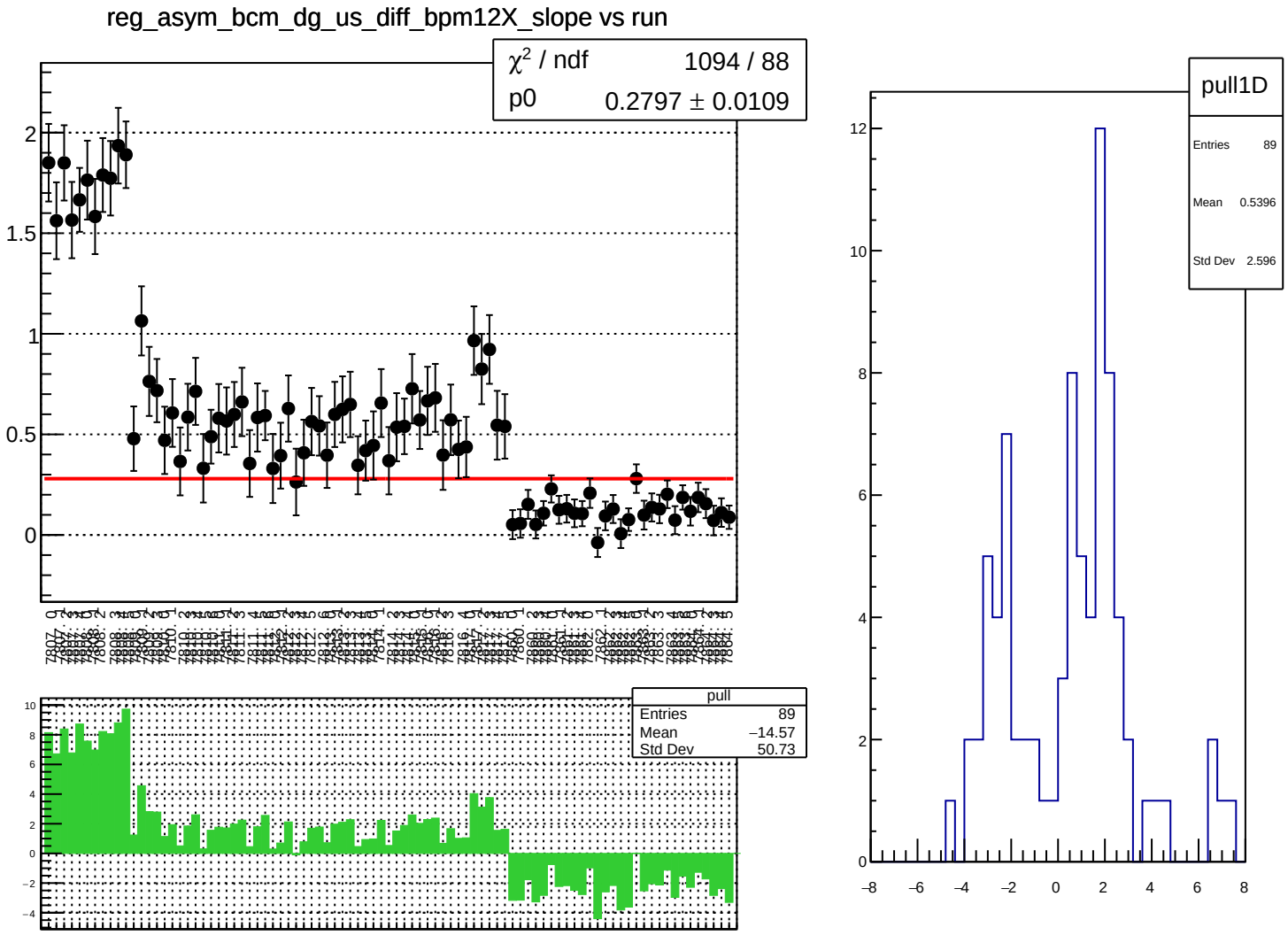

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 497.7 / 88
p0 −4.027 ± 0.3184
pull
Entries 89
Mean −0.4629
Std Dev 40.41

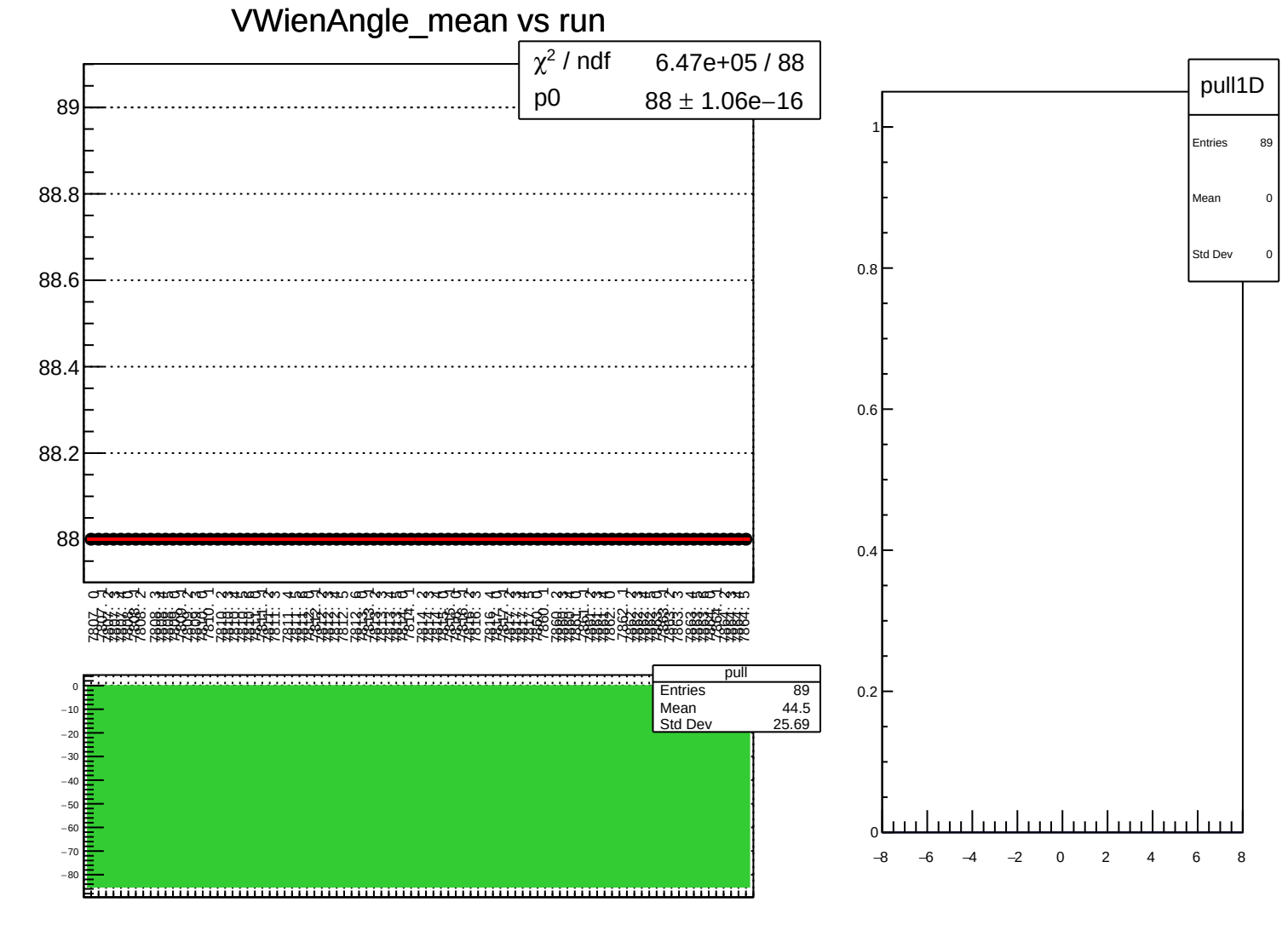

pull1D
Entries 89
Mean −0.9337
Std Dev 2.173

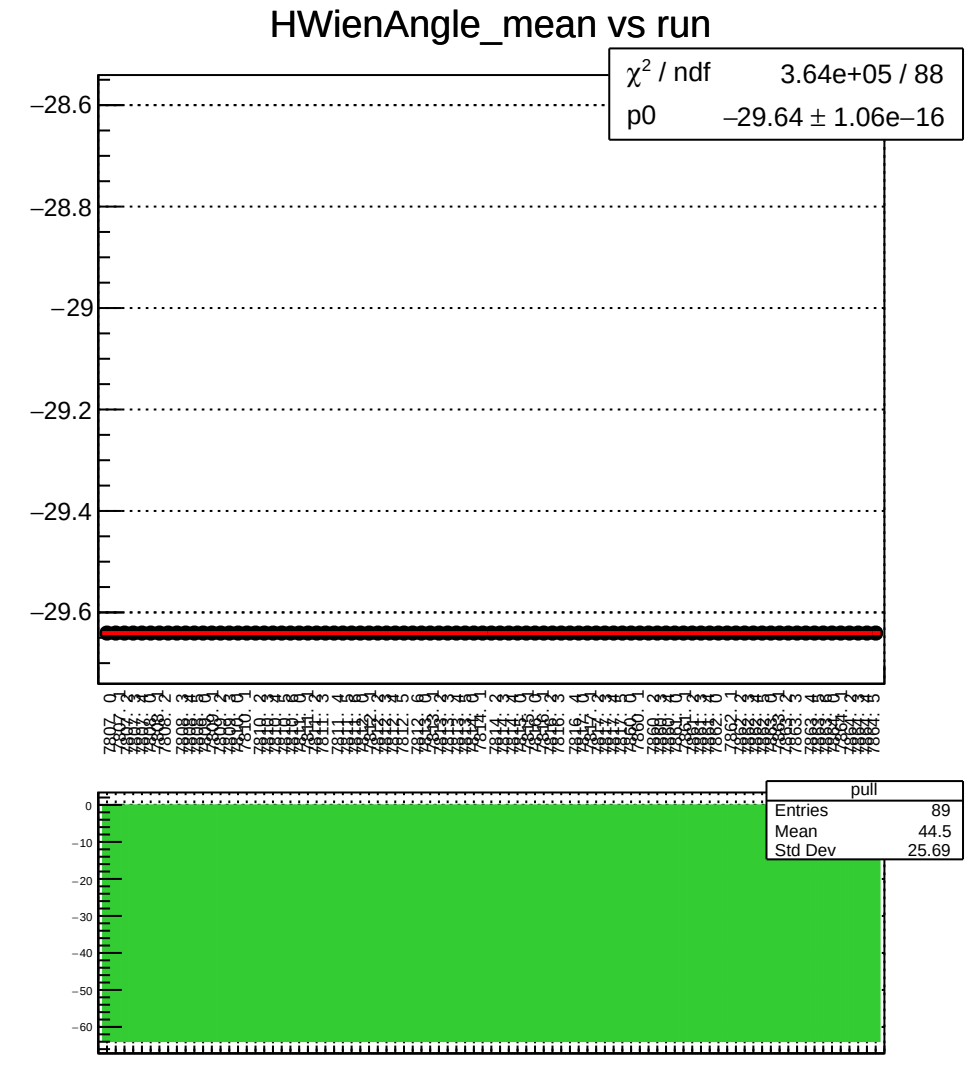

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 3043 / 88
p0 −10.14 ± 0.2728
pull
Entries 89
Mean −2.654
Std Dev 39.93
pull1D
Entries 89
Mean −1.154
Std Dev 4.274

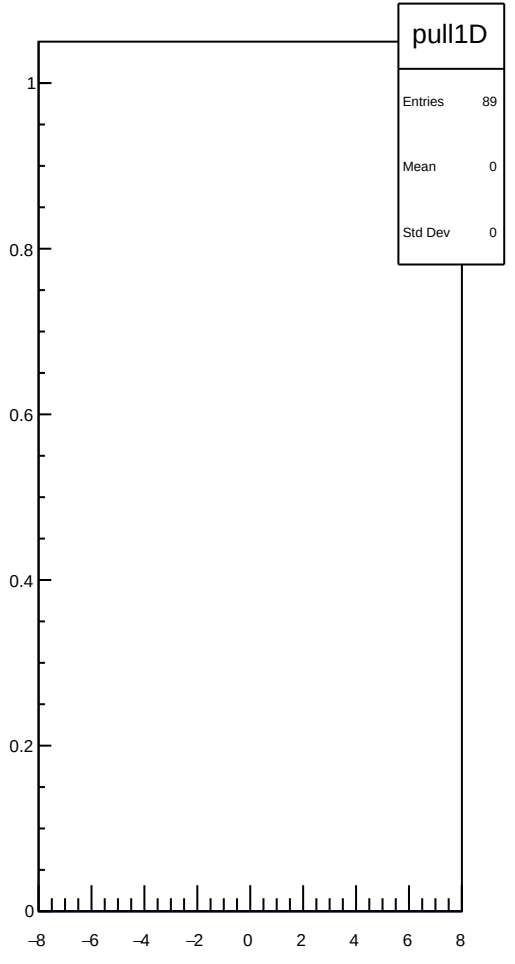

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 499 / 88
p0 4.532 ± 0.3661
pull
Entries 89
Mean −1.266
Std Dev 41.46

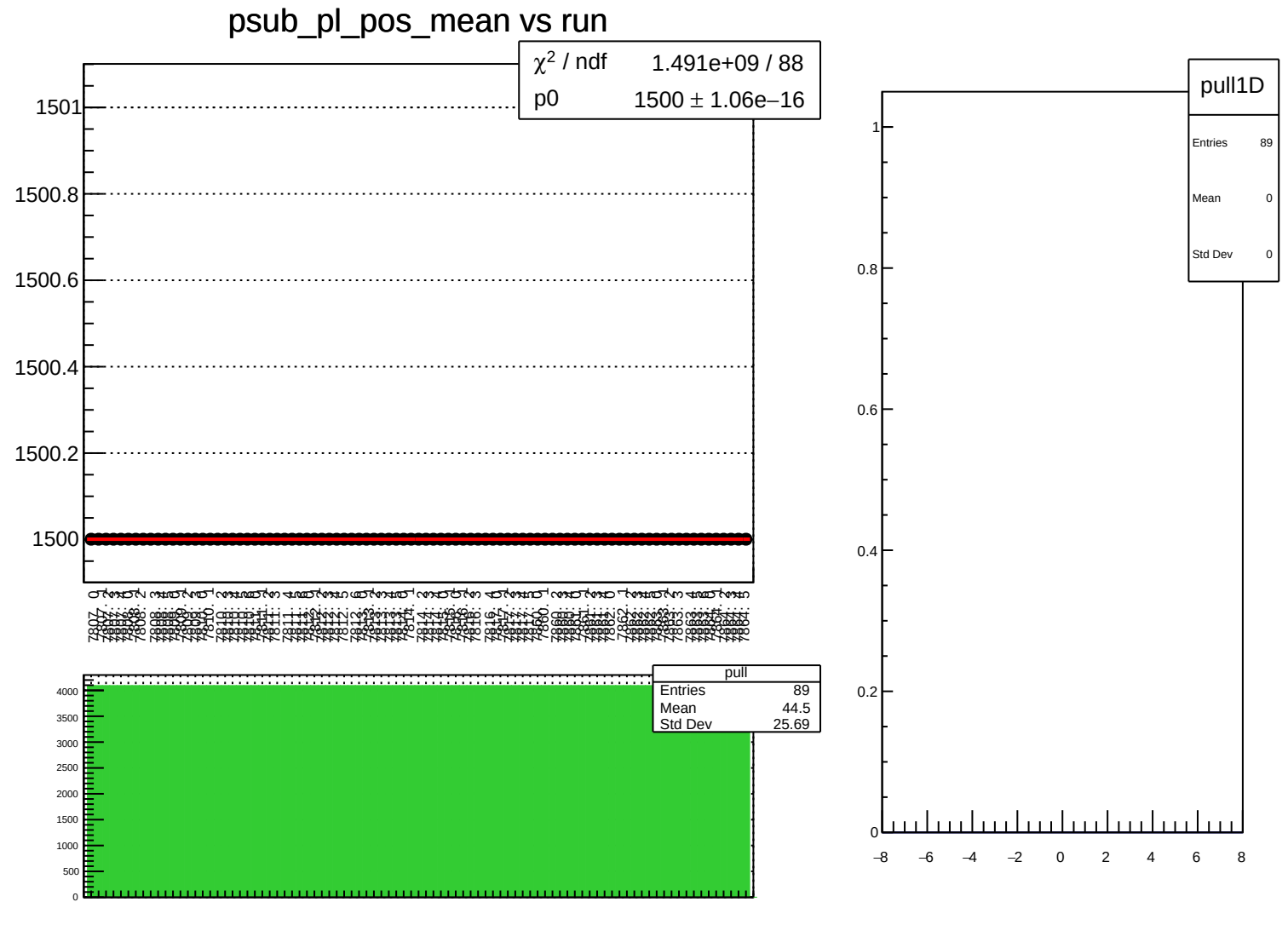

pull1D
Entries 89
Mean 0.9298
Std Dev 2.178

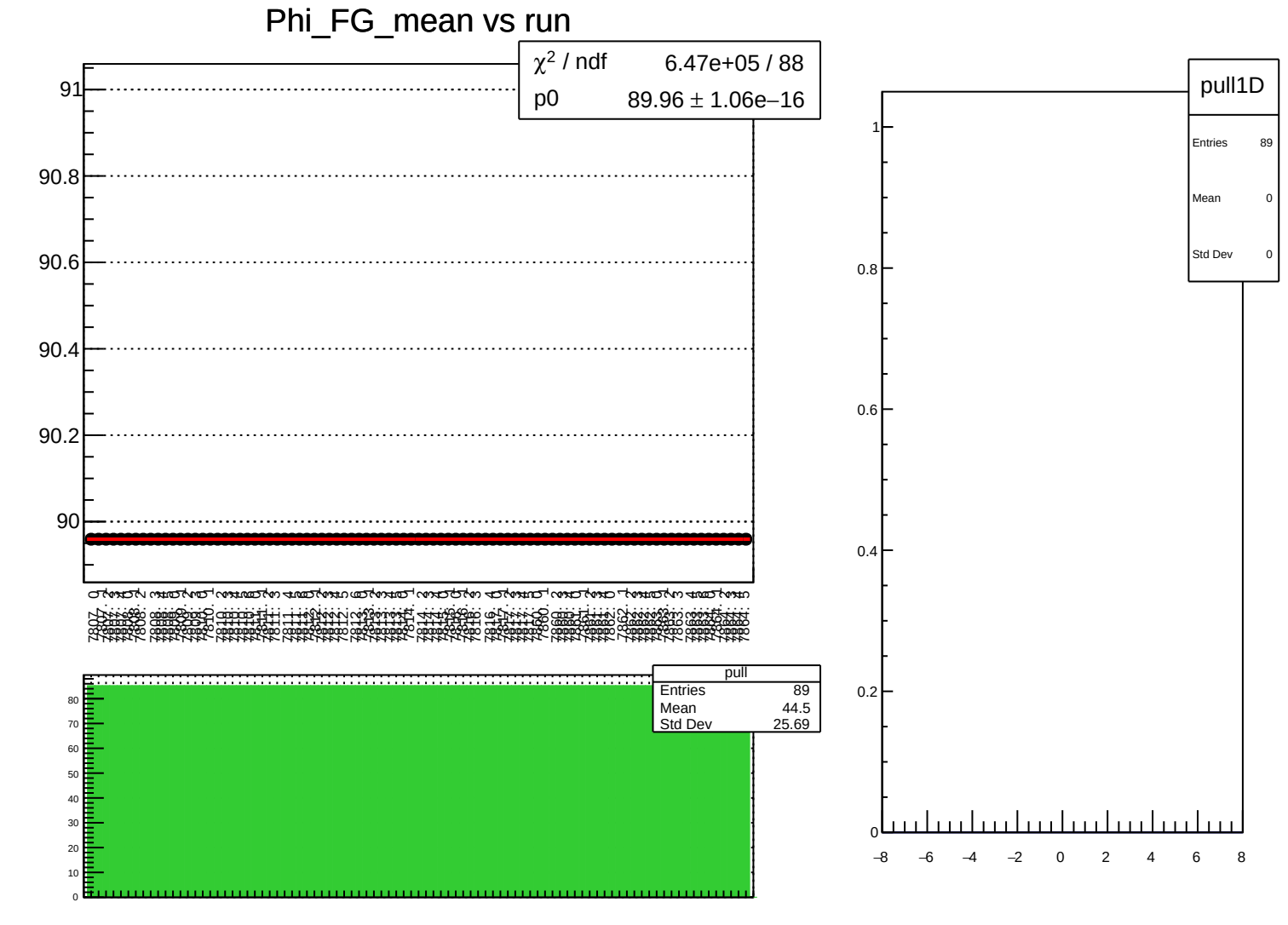

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 1094 / 88
p0 0.2797 ± 0.0109
pull
Entries 89
Mean −14.57
Std Dev 50.73
pull1D
Entries 89
Mean 0.5396
Std Dev 2.596

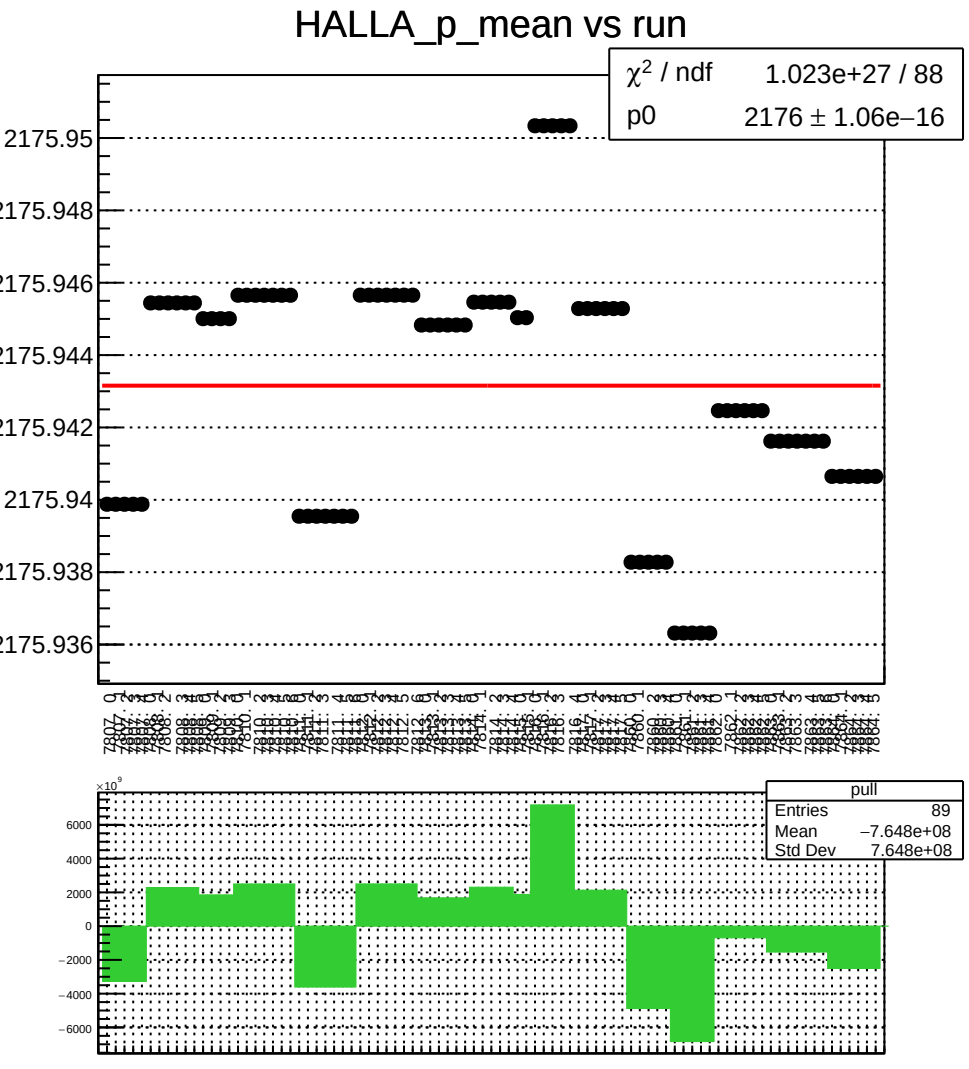

VWienAngle_mean vs run
χ² / ndf 6.47e+05 / 88
p0 88 ± 1.06e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 89
Mean 44.5
Std Dev 25.69
0
−10
−20
−30
−40
−50
−60
−70
−80
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

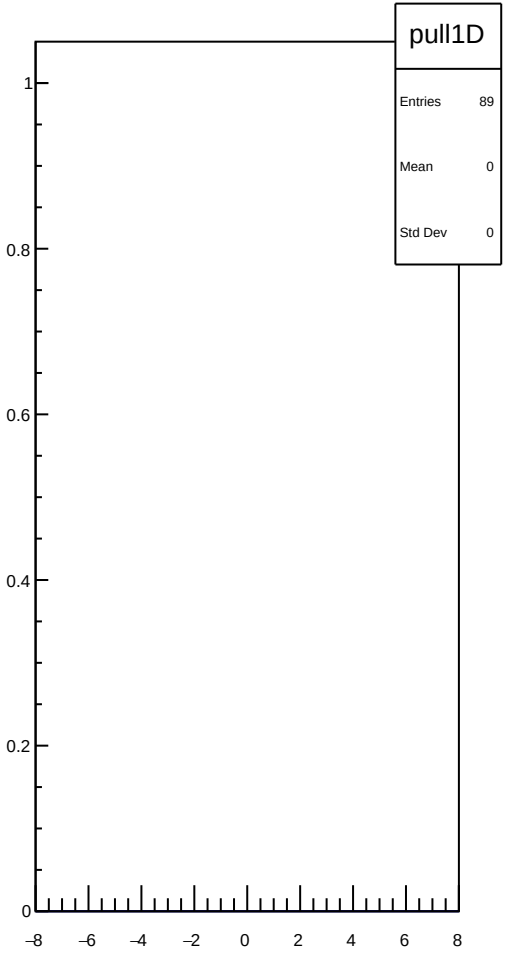

HWienAngle_mean vs run
χ² / ndf 3.64e+05 / 88
p0 −29.64 ± 1.06e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 89
Mean 44.5
Std Dev 25.69
0
−10
−20
−30
−40
−50
−60

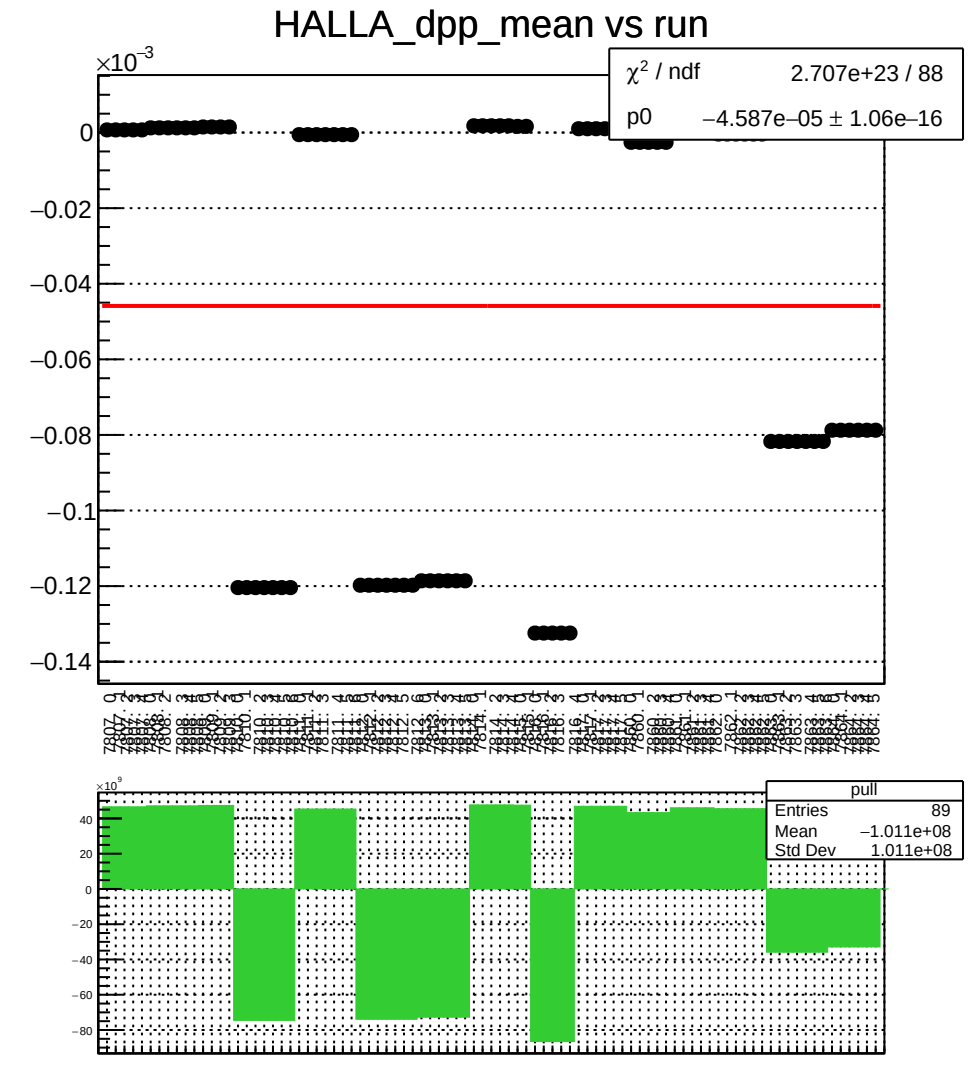

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

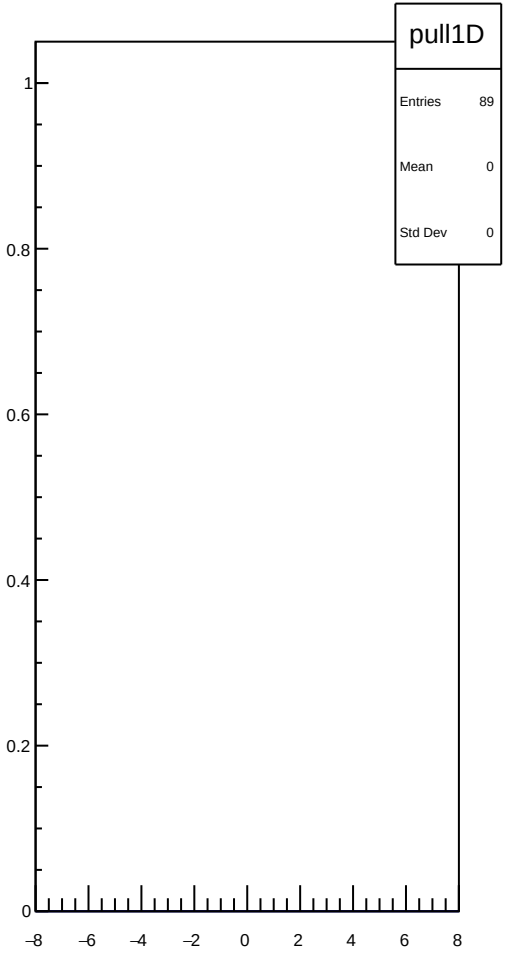

psub_pl_pos_mean vs run
χ² / ndf 1.491e+09 / 88
p0 1500 ± 1.06e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 89
Mean 44.5
Std Dev 25.69
4000
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

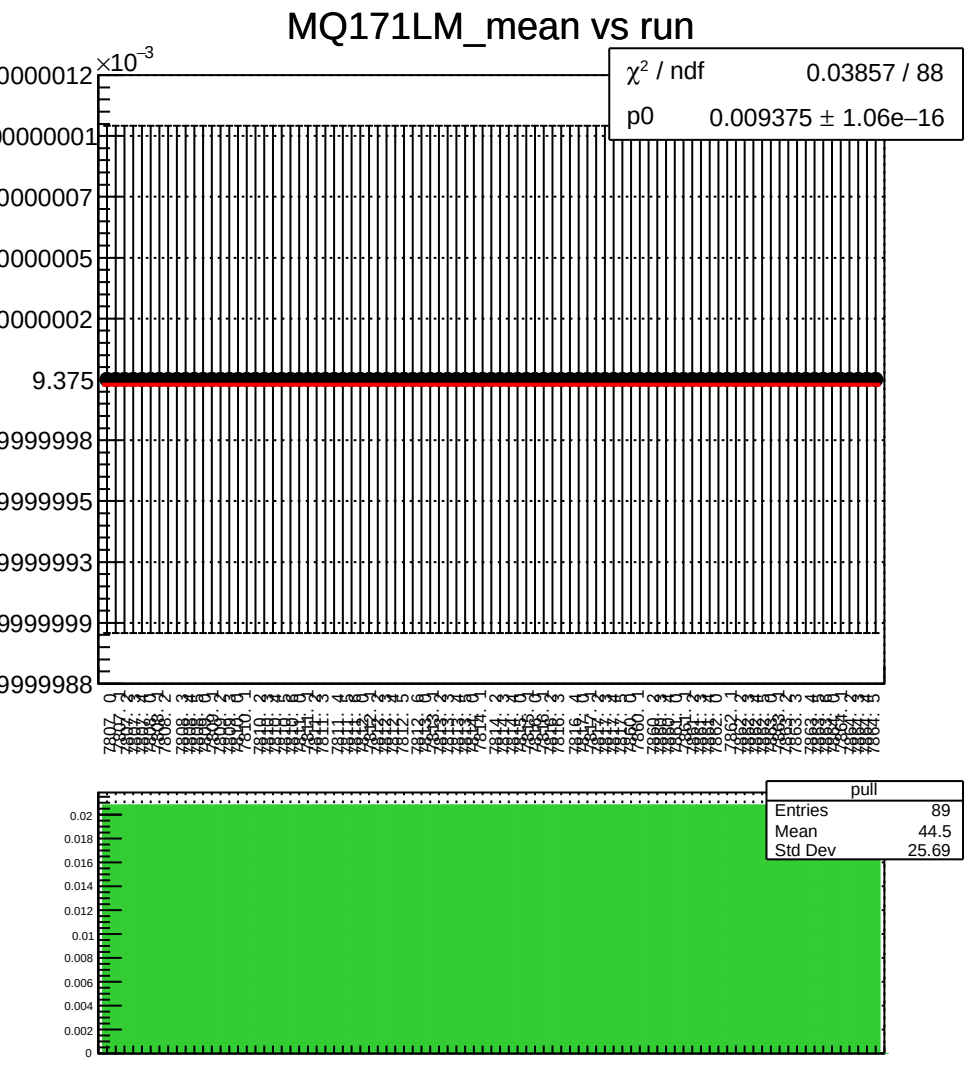

Phi_FG_mean vs run
χ² / ndf 6.47e+05 / 88
p0 89.96 ± 1.06e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 89
Mean 44.5
Std Dev 25.69
80
70
60
50
40
30
20
10
0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

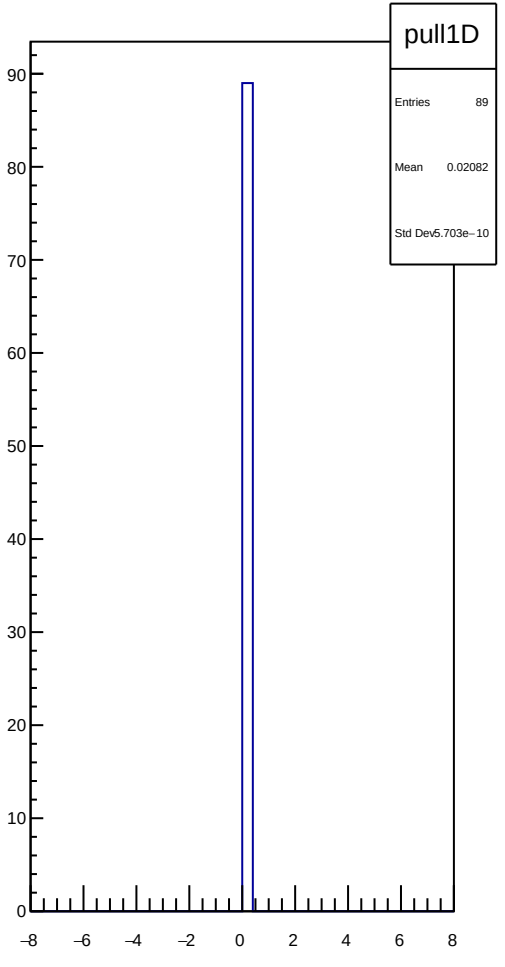

HALLA_p_mean vs run
χ² / ndf 1.023e+27 / 88
p0 2176 ± 1.06e−16
2175.95
2175.948
2175.946
2175.944
2175.942
2175.94
2175.938
2175.936
pull
Entries 89
Mean −7.648e+08
Std Dev 7.648e+08
×10⁹
6000
4000
2000
0
−2000
−4000
−6000

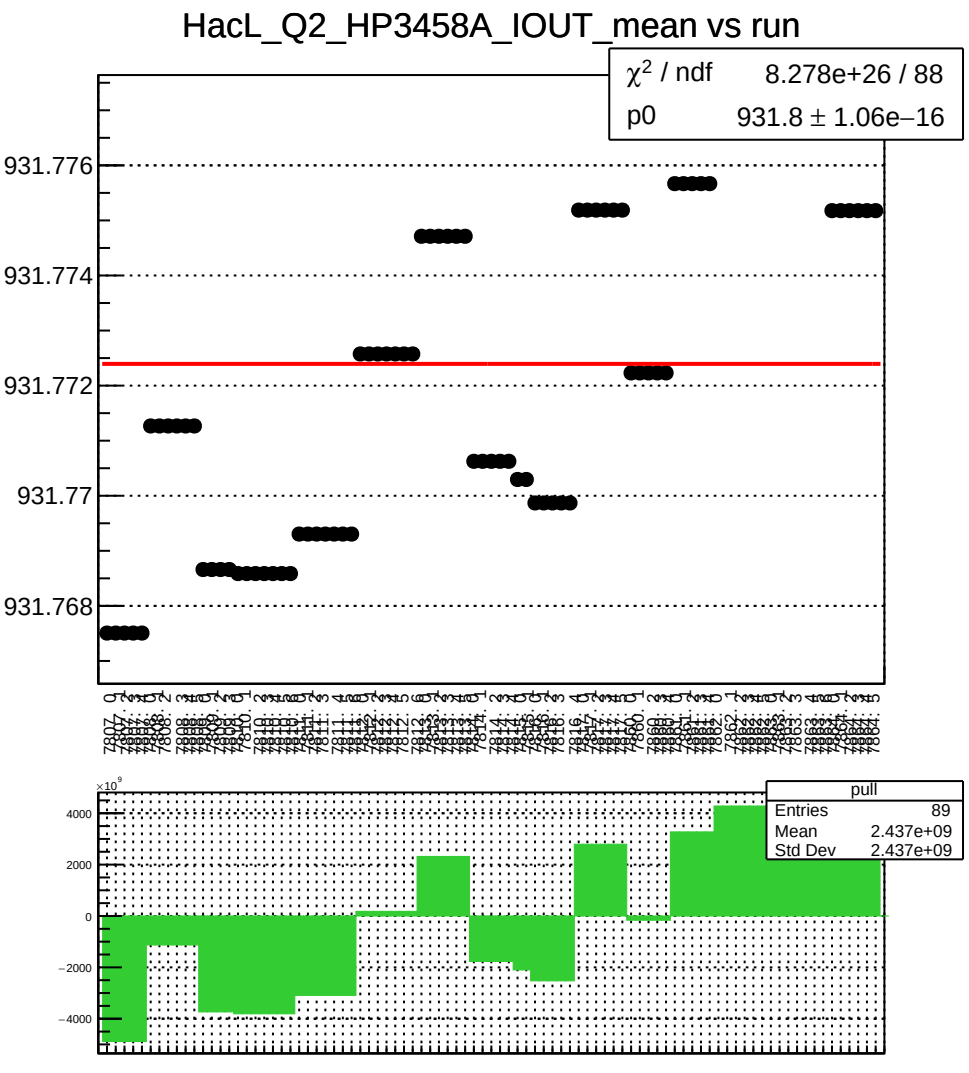

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

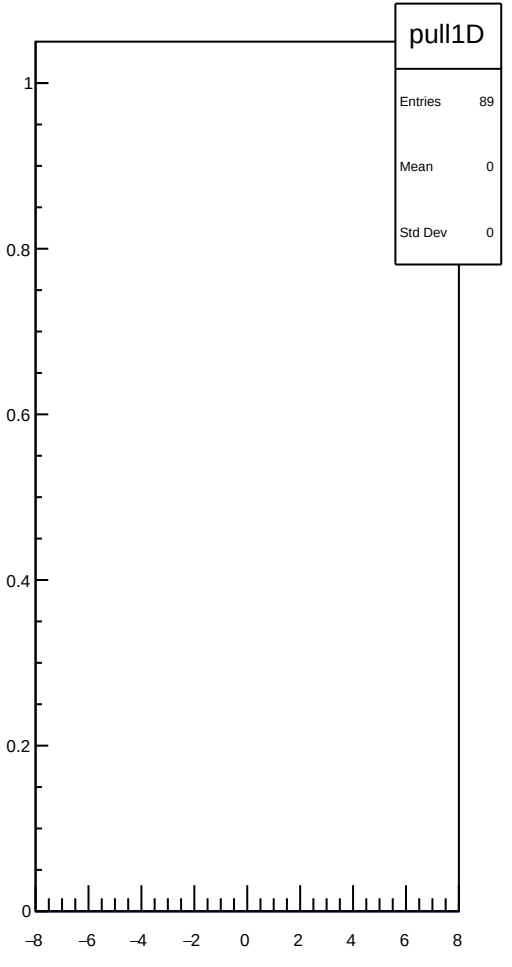

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.707e+23 / 88
p0 −4.587e−05 ± 1.06e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
×10⁹
pull
Entries 89
Mean −1.011e+08
Std Dev 1.011e+08
40
20
0
−20
−40
−60
−80

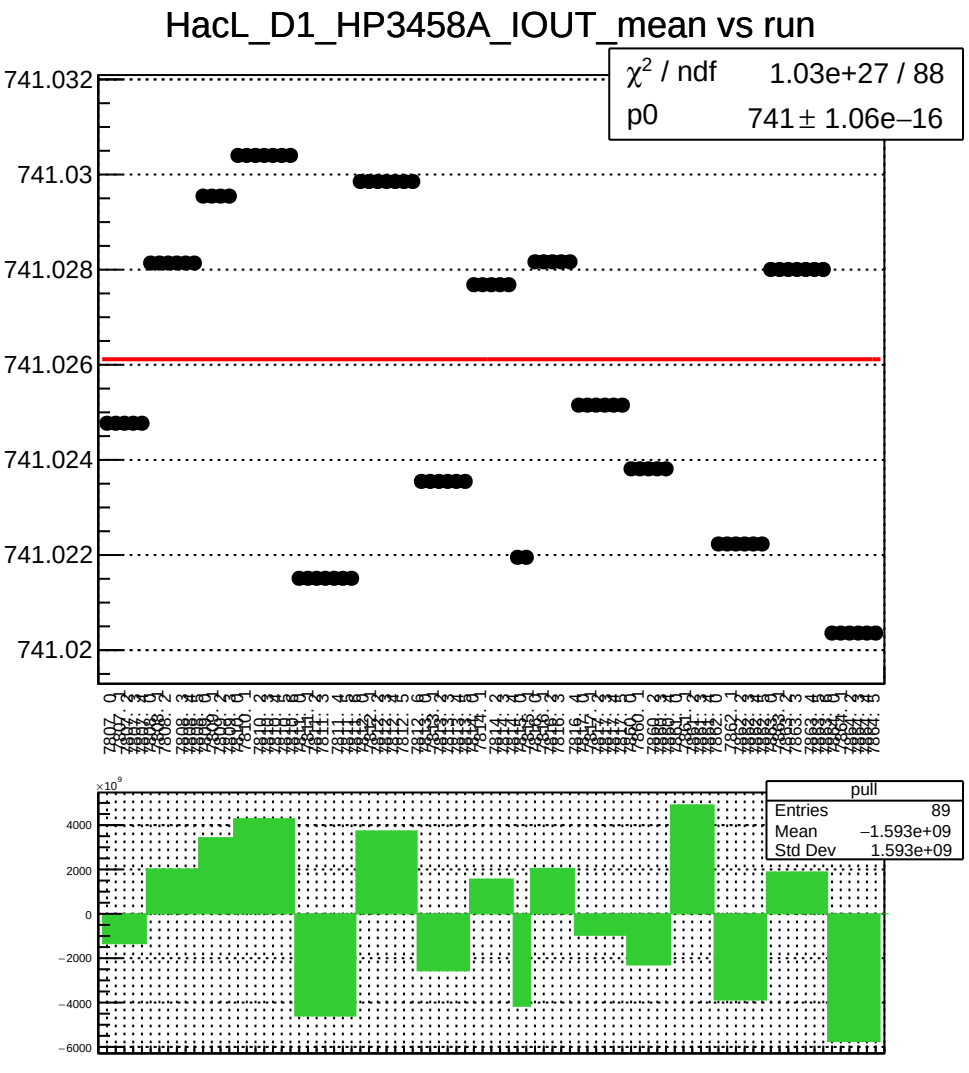

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

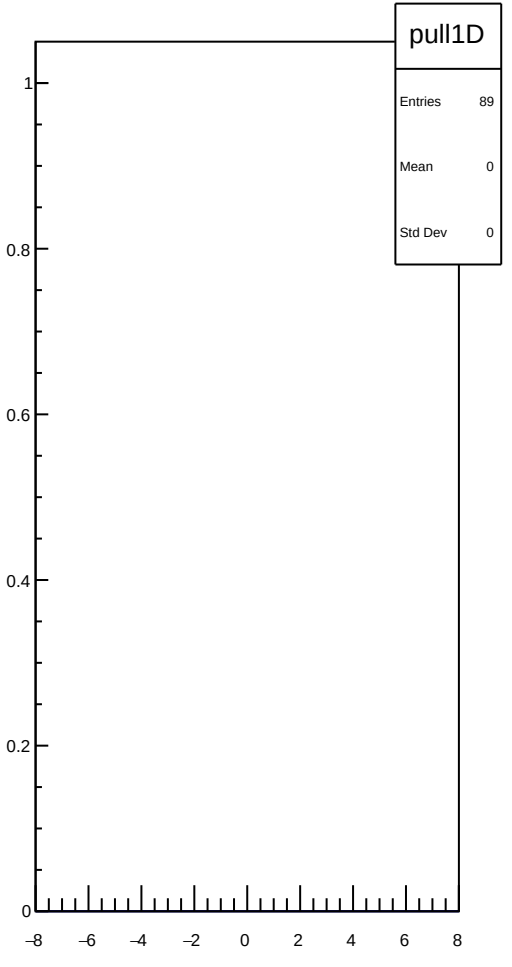

MQ171LM_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69

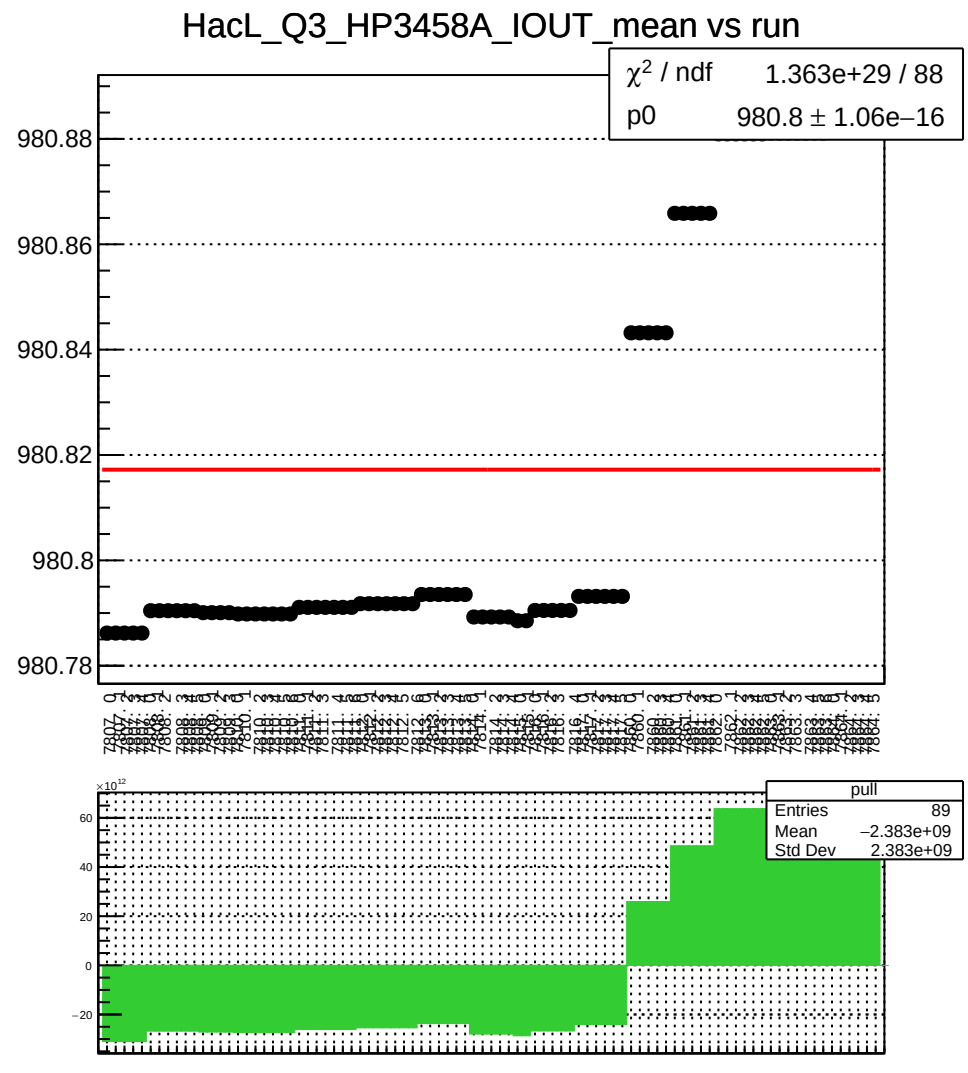

pull1D
Entries 89
Mean 0.02082
Std Dev 5.703e−10

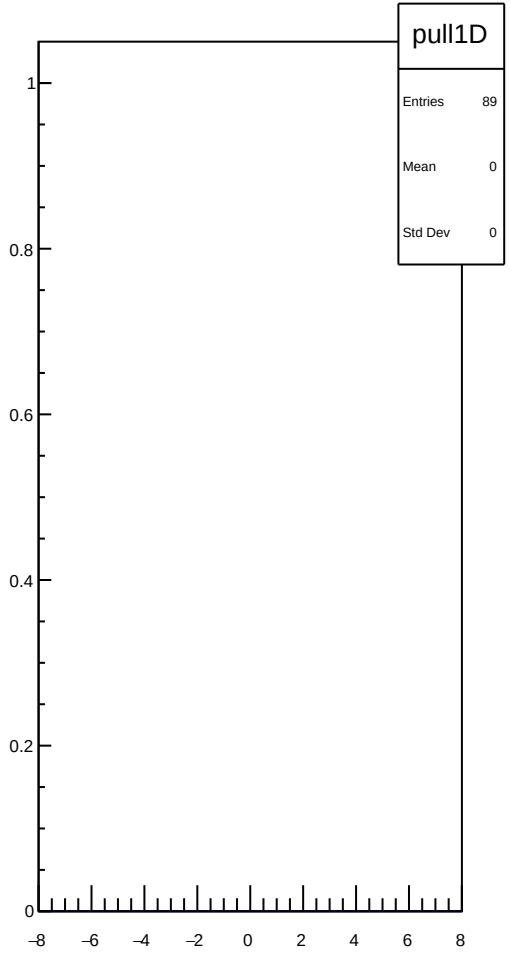

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 8.278e+26 / 88
p0 931.8 ± 1.06e−16
931.776
931.774
931.772
931.77
931.768
×10⁹
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 2.437e+09
Std Dev 2.437e+09

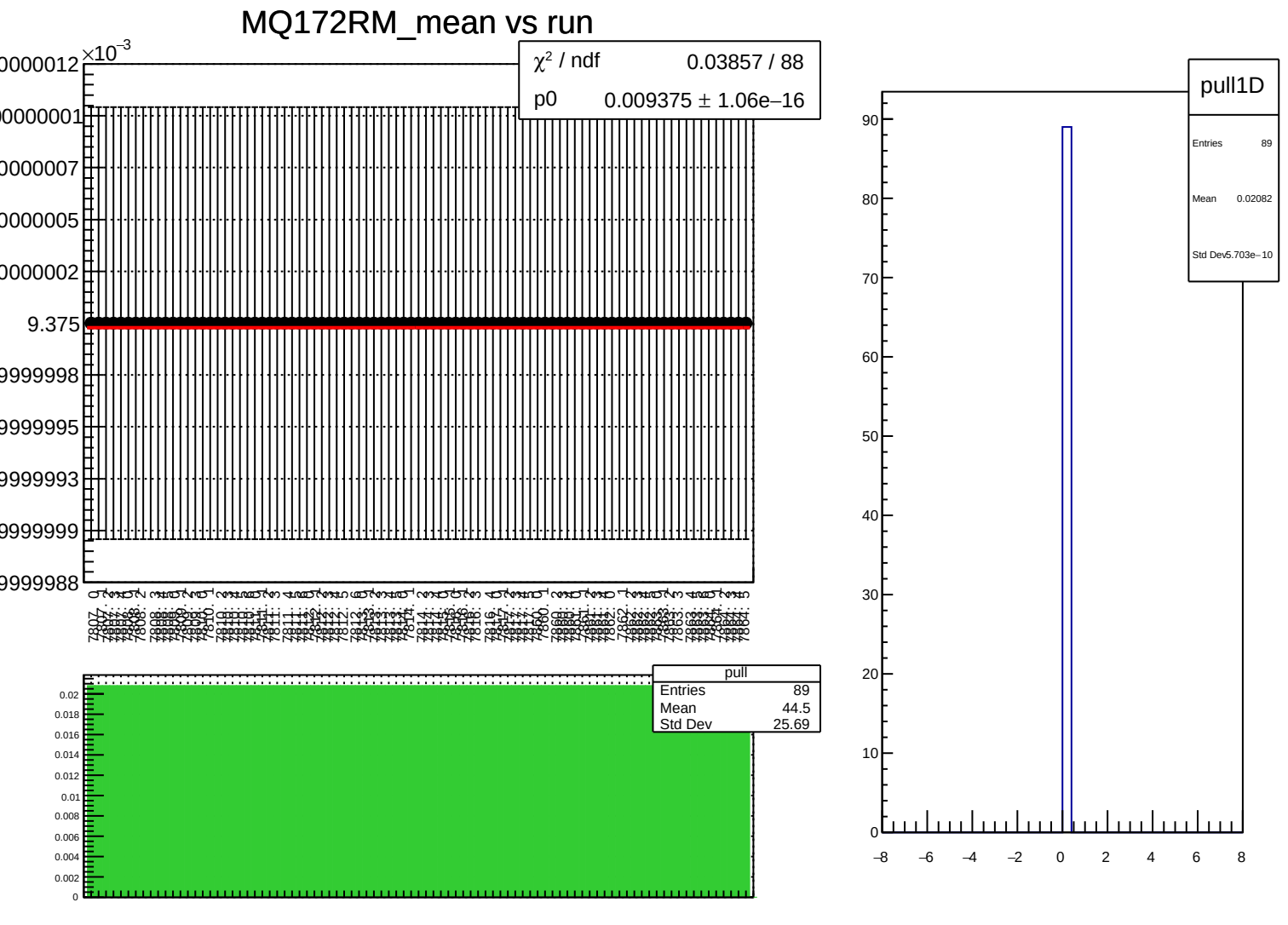

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

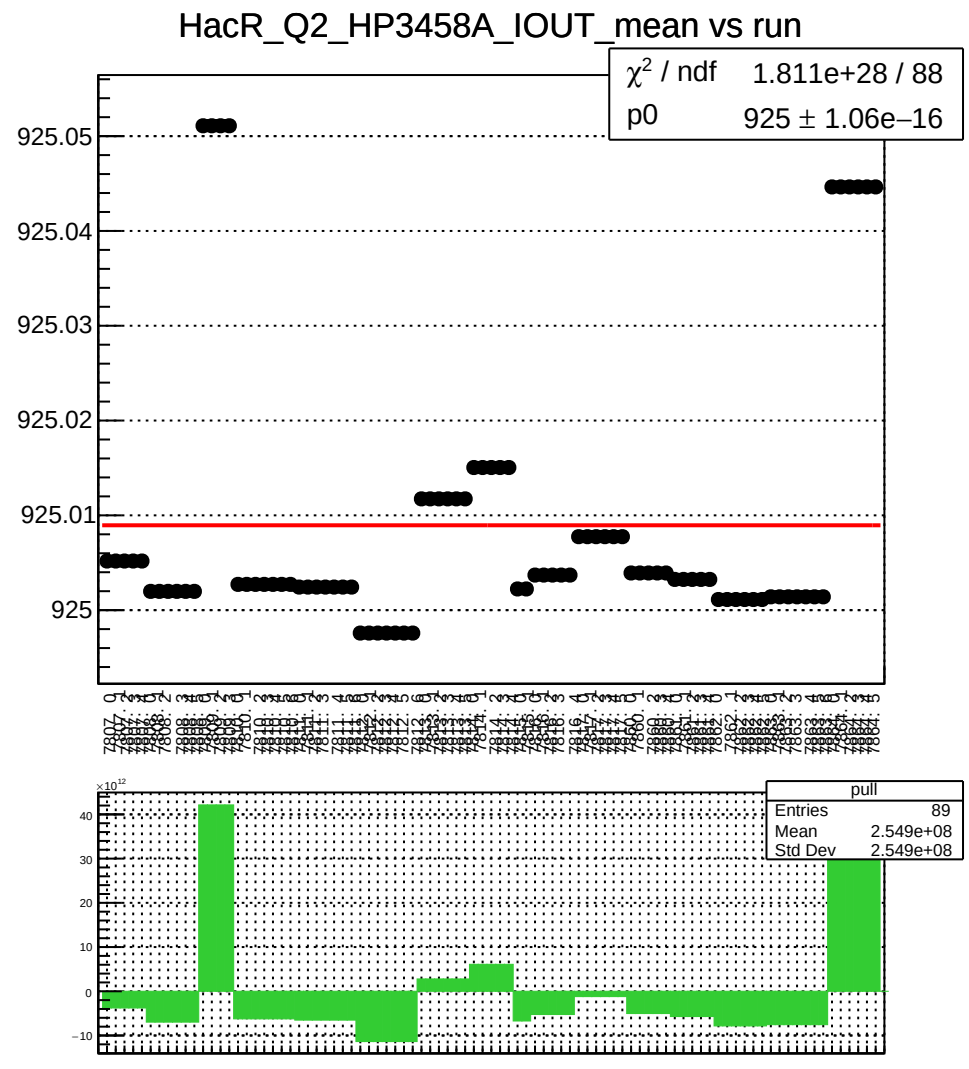

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.03e+27 / 88
p0 741 ± 1.06e−16
741.032
741.03
741.028
741.026
741.024
741.022
741.02
×10⁹
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −1.593e+09
Std Dev 1.593e+09

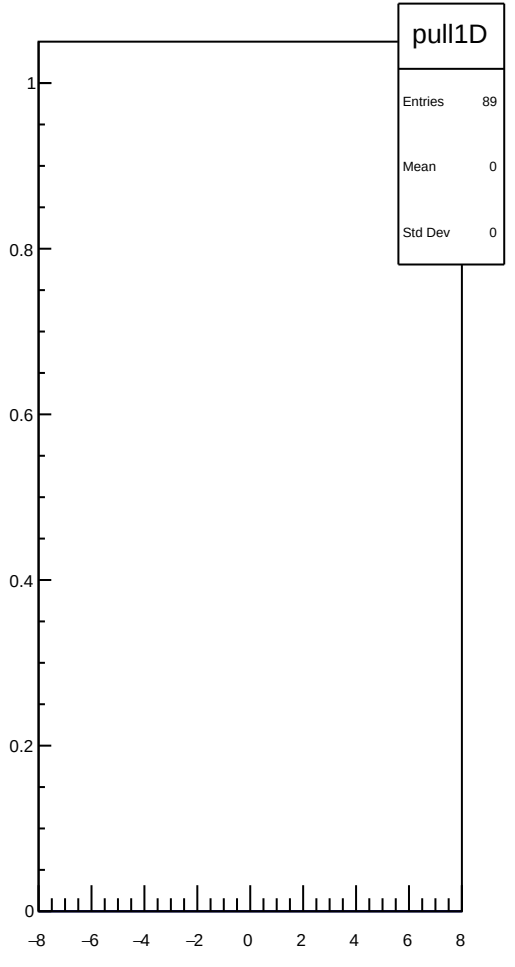

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

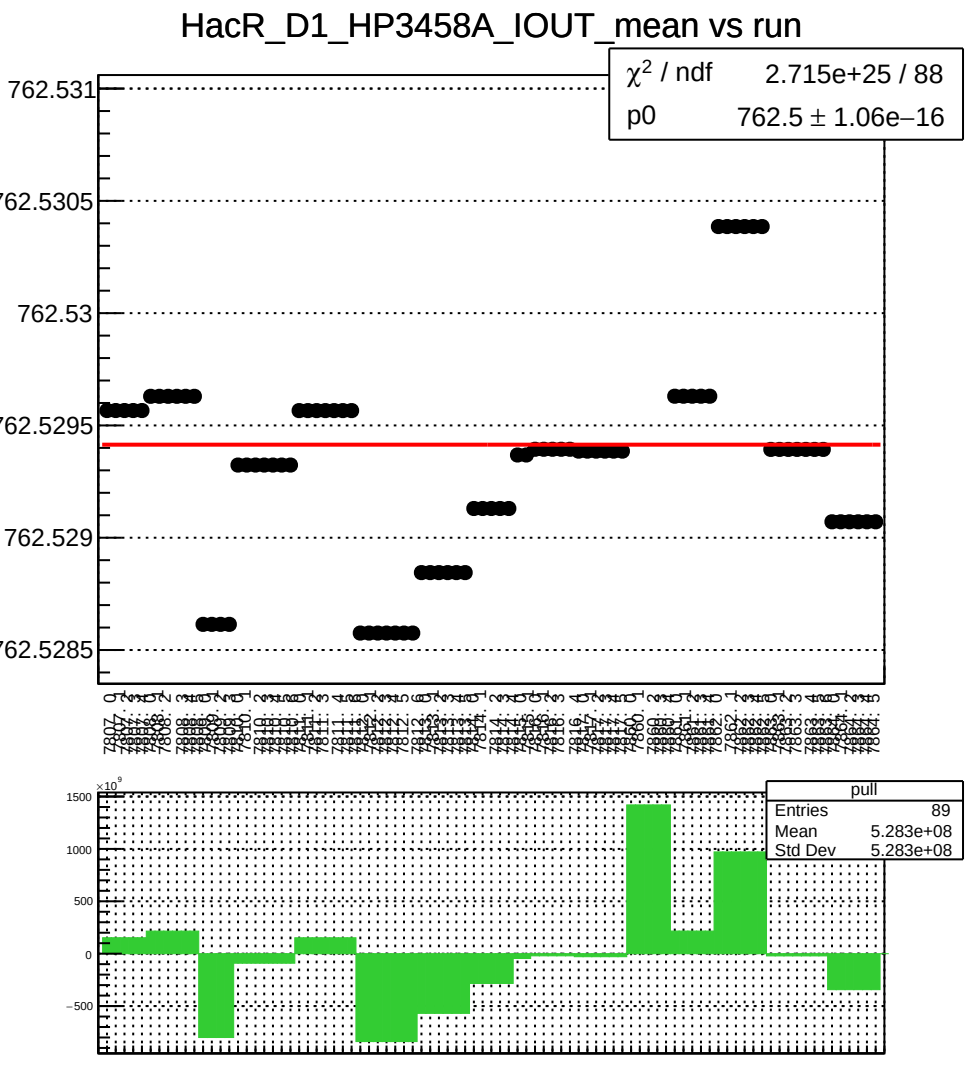

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.363e+29 / 88
p0 980.8 ± 1.06e−16
980.88
980.86
980.84
980.82
980.8
980.78
×10¹²
60
40
20
0
−20
pull
Entries 89
Mean −2.383e+09
Std Dev 2.383e+09

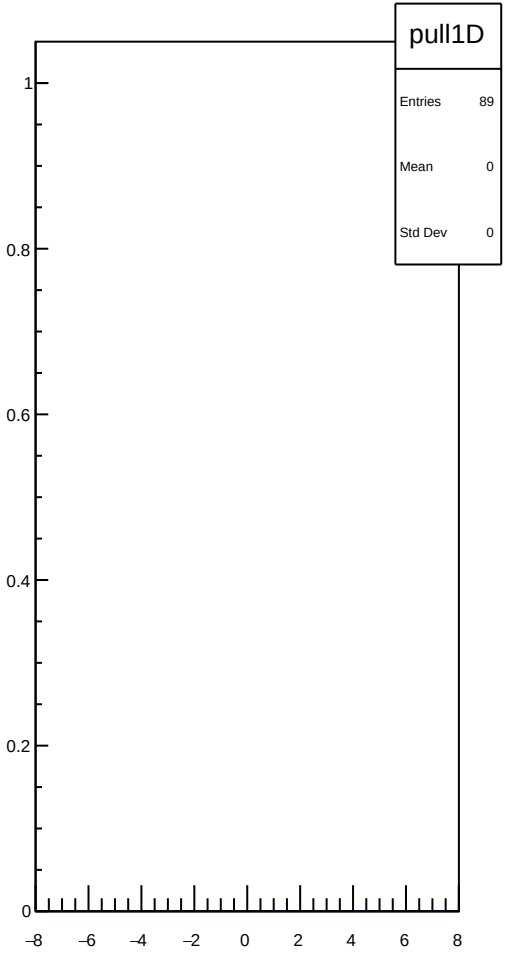

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

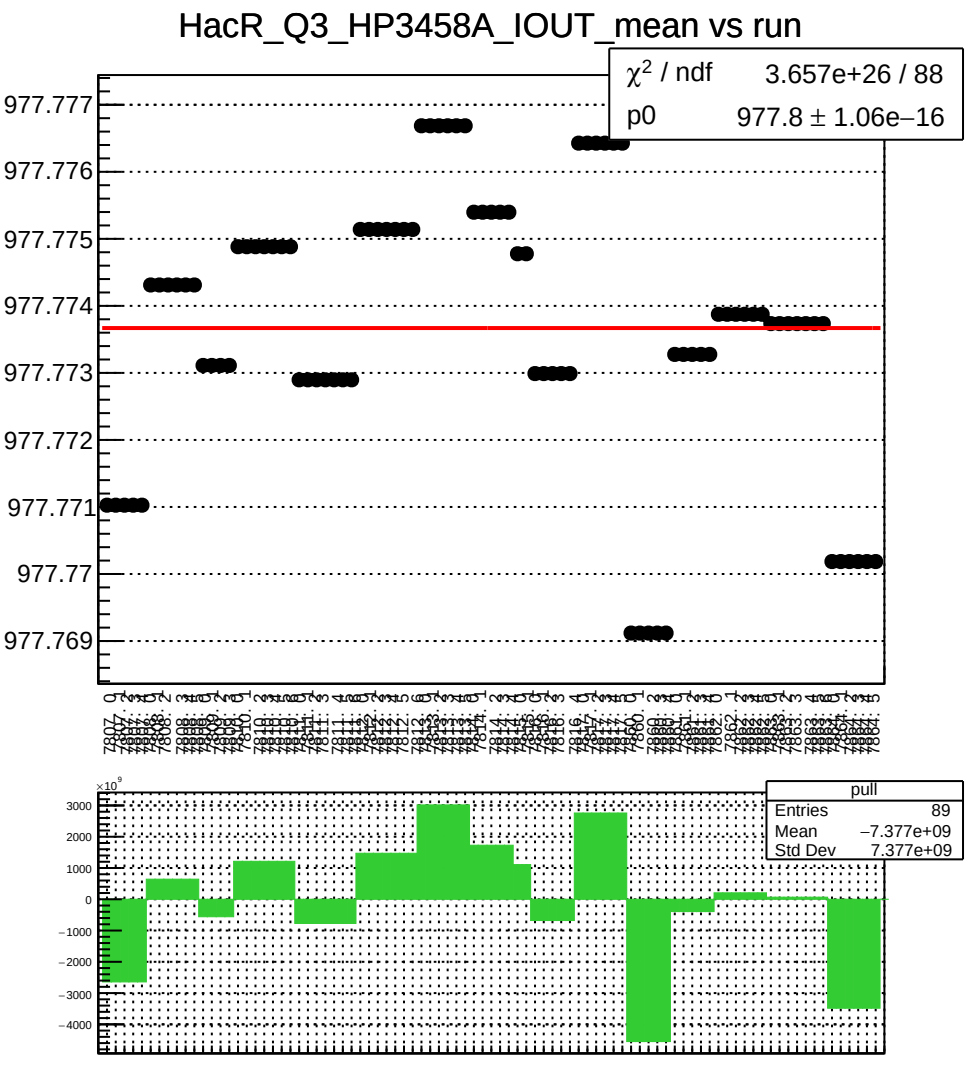

MQ172RM_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 5.703e−10

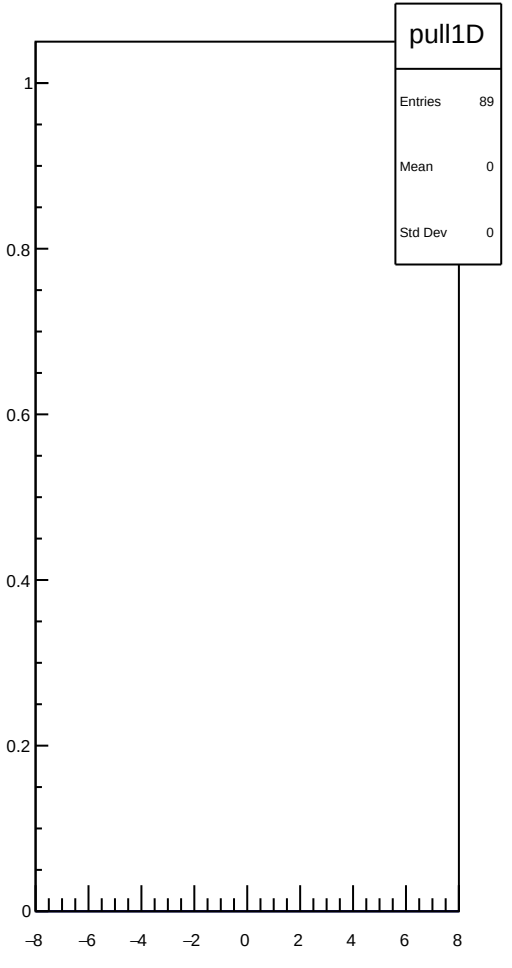

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.811e+28 / 88
p0 925 ± 1.06e−16
925.05
925.04
925.03
925.02
925.01
925
pull
Entries 89
Mean 2.549e+08
Std Dev 2.549e+08
×10¹²
40
30
20
10
0
−10

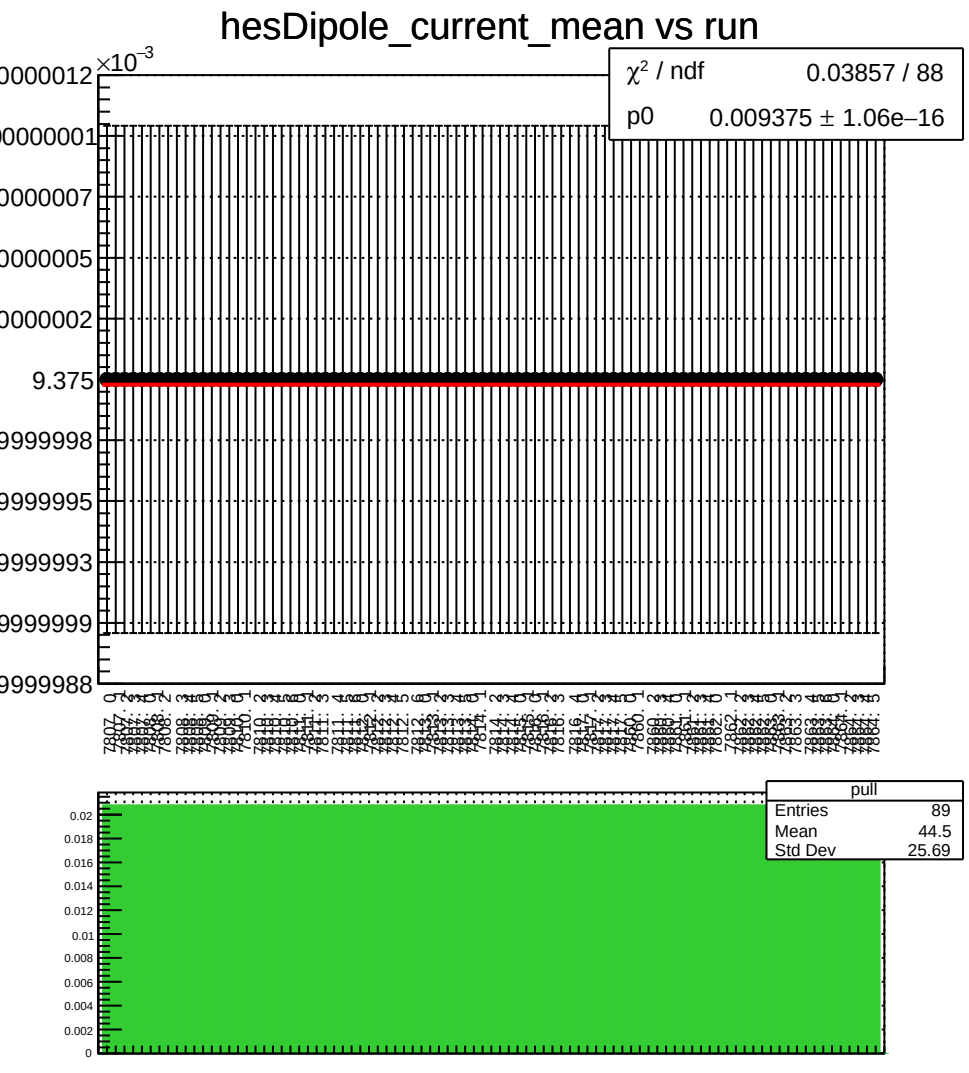

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

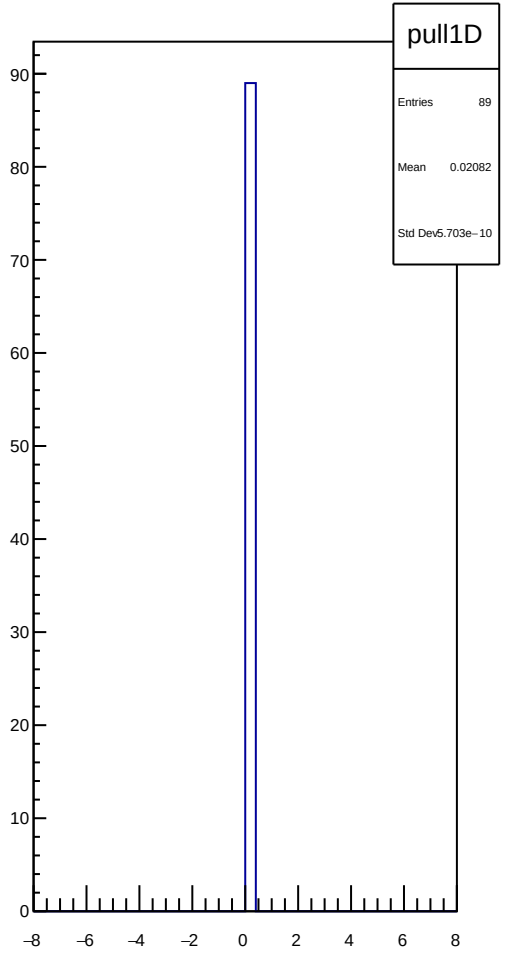

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.715e+25 / 88
p0 762.5 ± 1.06e−16
762.531
762.5305
762.53
762.5295
762.529
762.5285
pull
Entries 89
Mean 5.283e+08
Std Dev 5.283e+08
×10⁹
1500
1000
500
0
−500

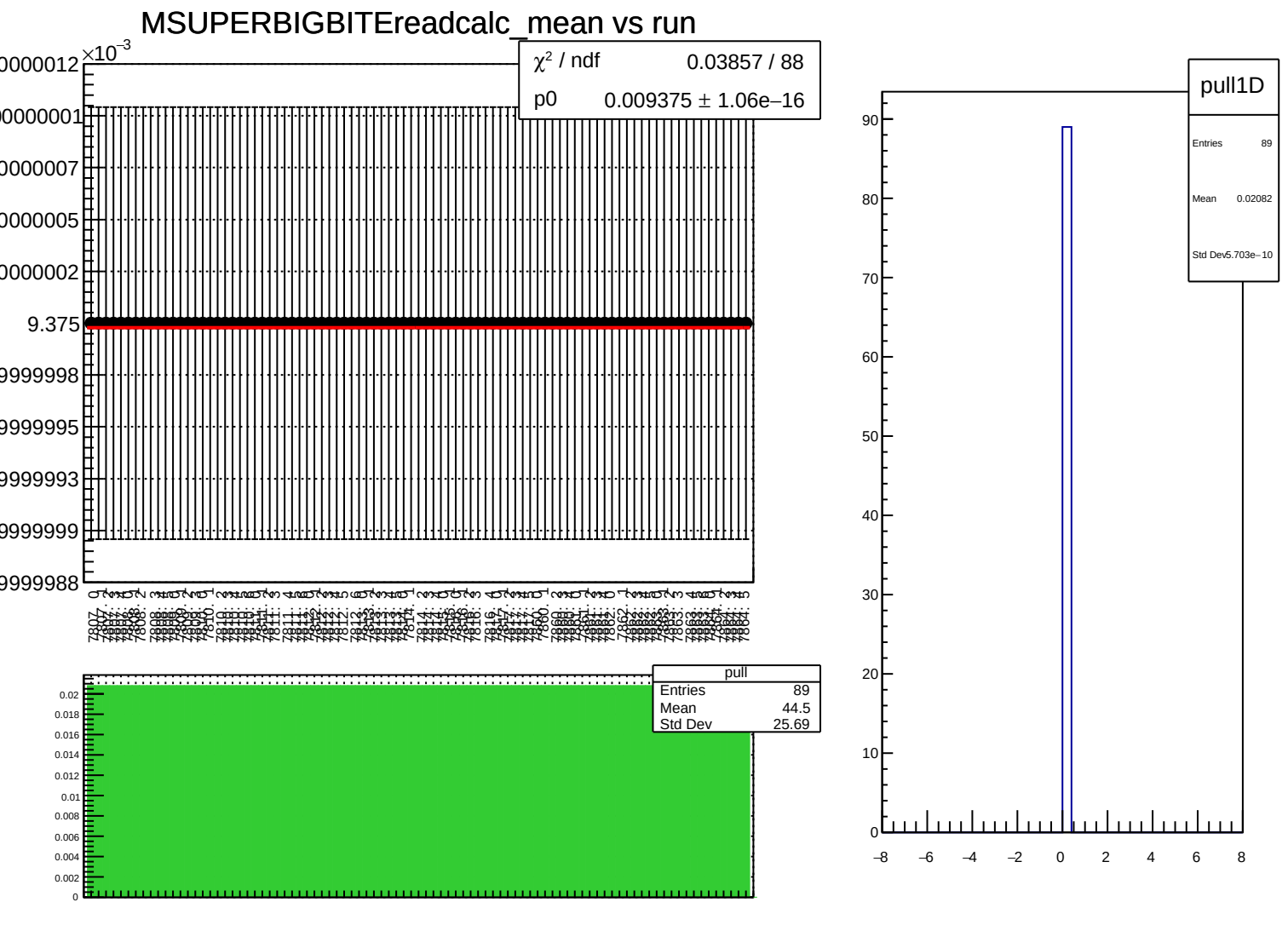

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

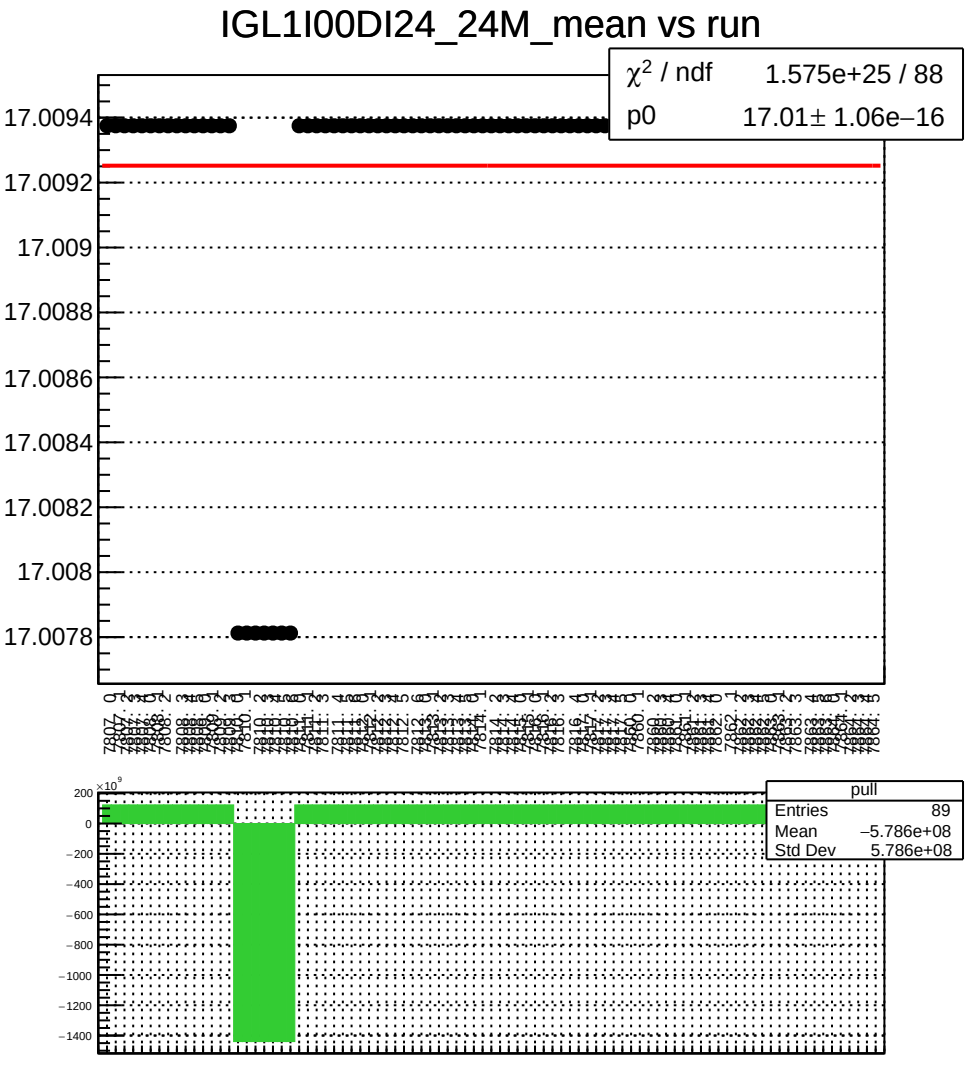

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.657e+26 / 88
p0 977.8 ± 1.06e−16
977.777
977.776
977.775
977.774
977.773
977.772
977.771
977.77
977.769
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 89
Mean −7.377e+09
Std Dev 7.377e+09

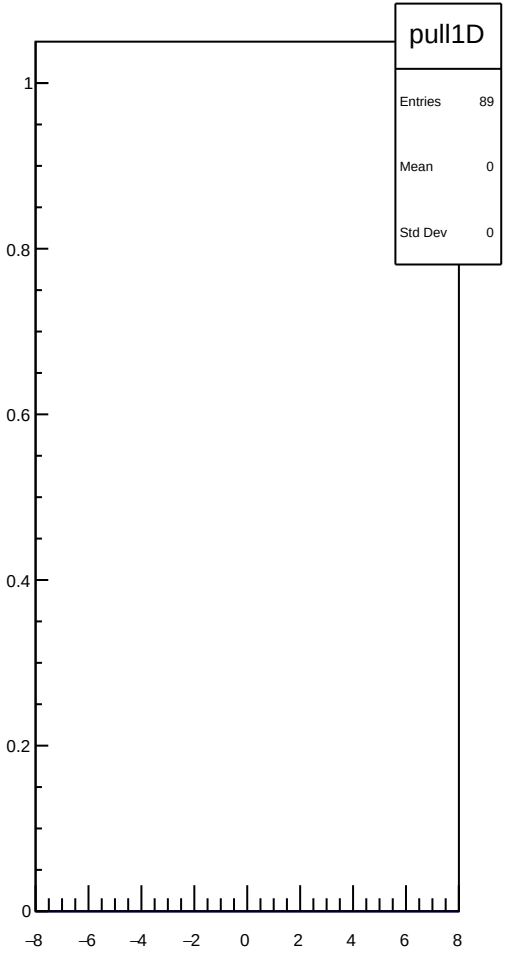

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

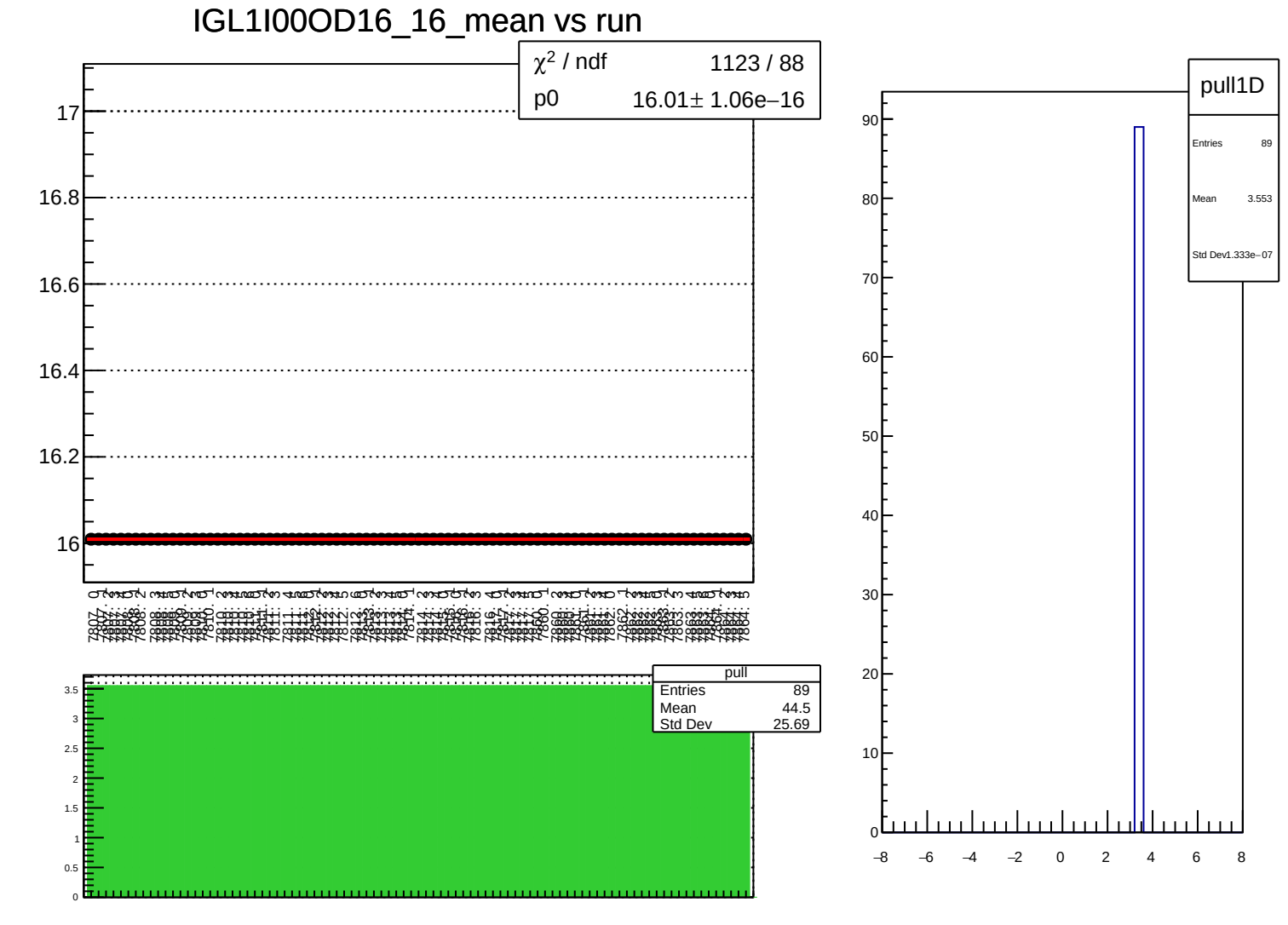

hesDipole_current_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
9.375
pull
Entries 89
Mean 44.5
Std Dev 25.69

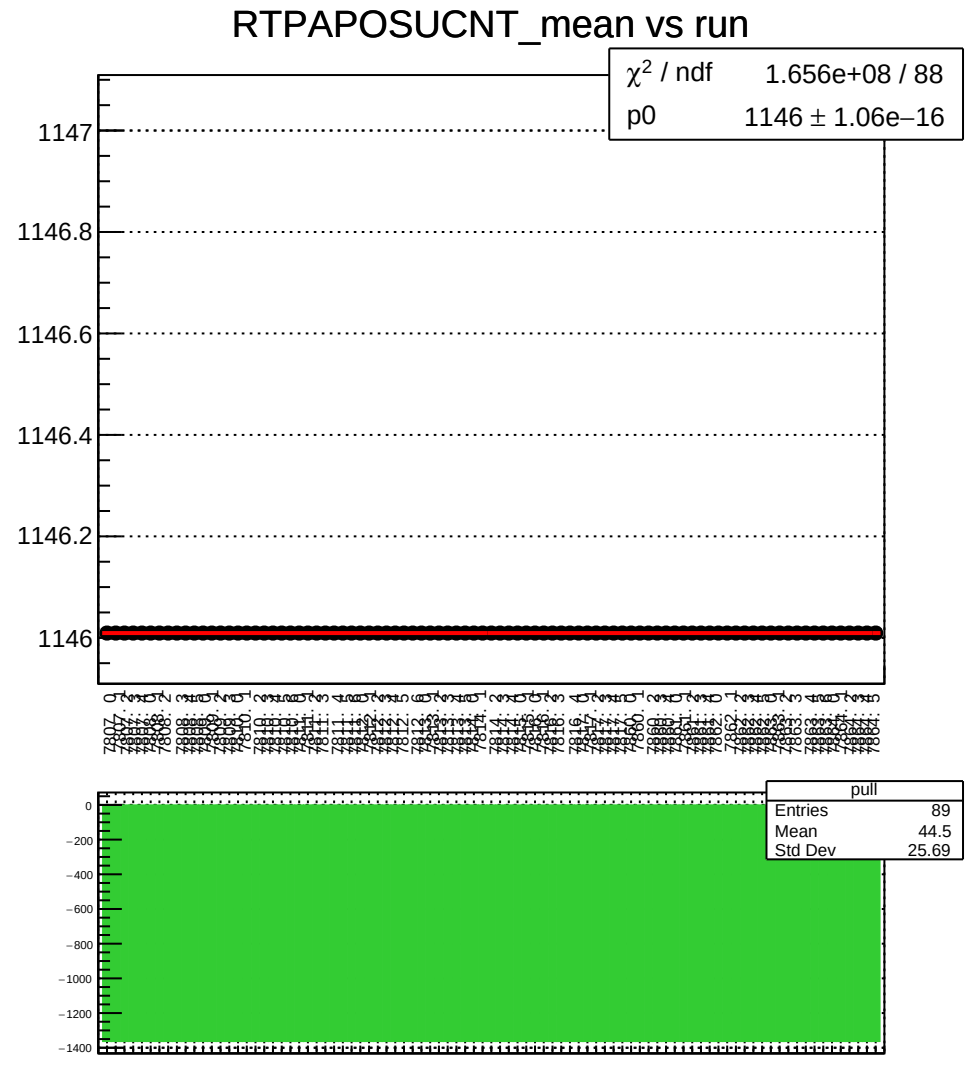

pull1D
Entries 89
Mean 0.02082
Std Dev 5.703e−10

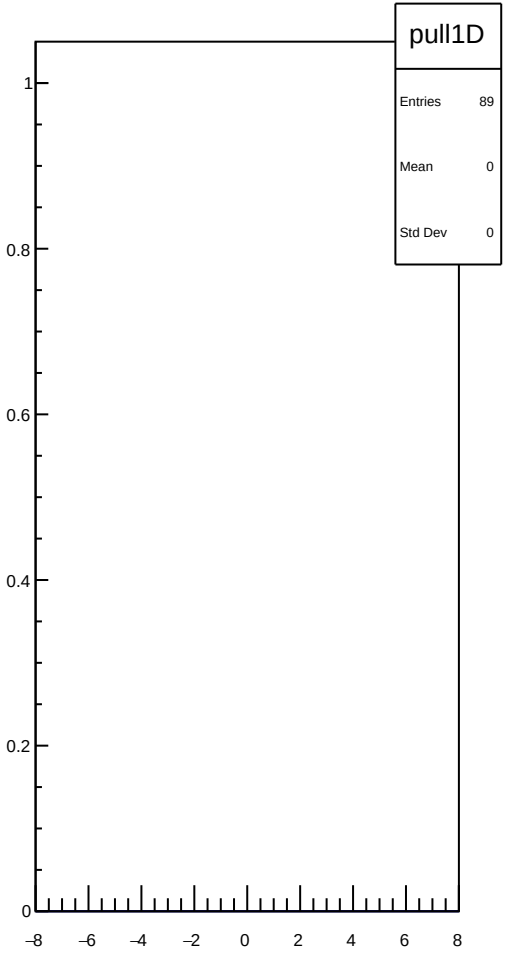

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 5.703e−10

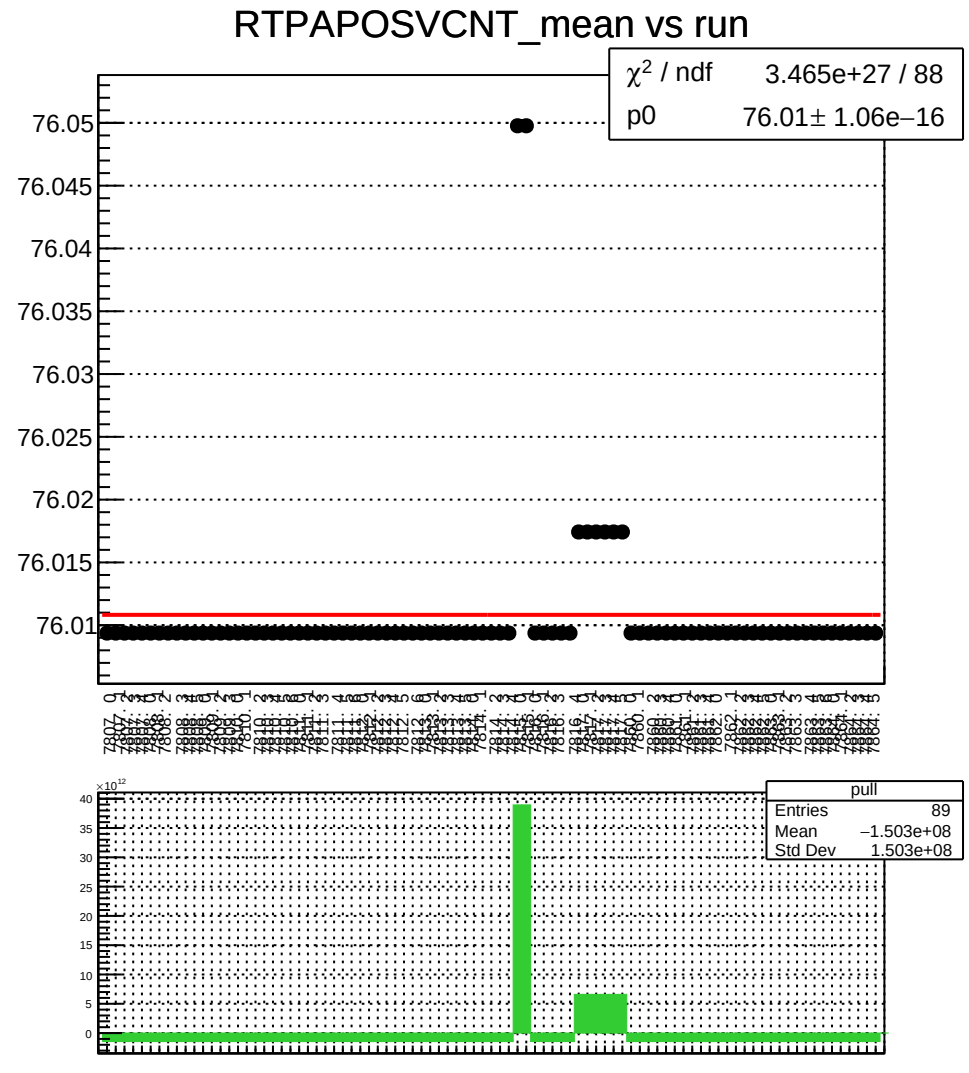

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.575e+25 / 88
p0 17.01± 1.06e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 89
Mean −5.786e+08
Std Dev 5.786e+08
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400

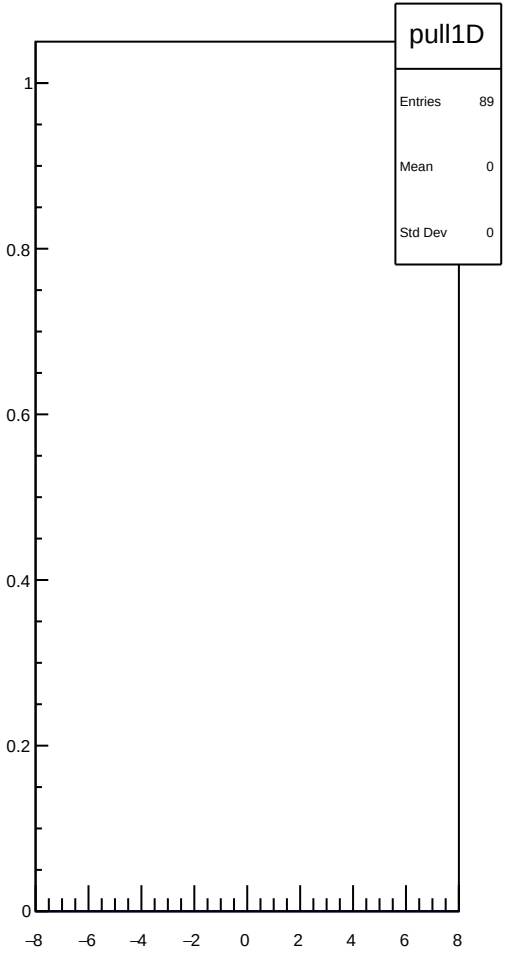

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00OD16_16_mean vs run
χ² / ndf 1123 / 88
p0 16.01± 1.06e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 89
Mean 44.5
Std Dev 25.69
3.5
3
2.5
2
1.5
1
0.5
0
pull1D
Entries 89
Mean 3.553
Std Dev1.333e−07
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 1.656e+08 / 88
p0 1146 ± 1.06e−16
1147
1146.8
1146.6
1146.4
1146.2
1146
pull
Entries 89
Mean 44.5
Std Dev 25.69
0
−200
−400
−600
−800
−1000
−1200
−1400


pull1D
Entries 89
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 3.465e+27 / 88
p0 76.01± 1.06e−16
76.05
76.045
76.04
76.035
76.03
76.025
76.02
76.015
76.01
pull
Entries 89
Mean −1.503e+08
Std Dev 1.503e+08
×10¹²
40
35
30
25
20
15
10
5
0


pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8