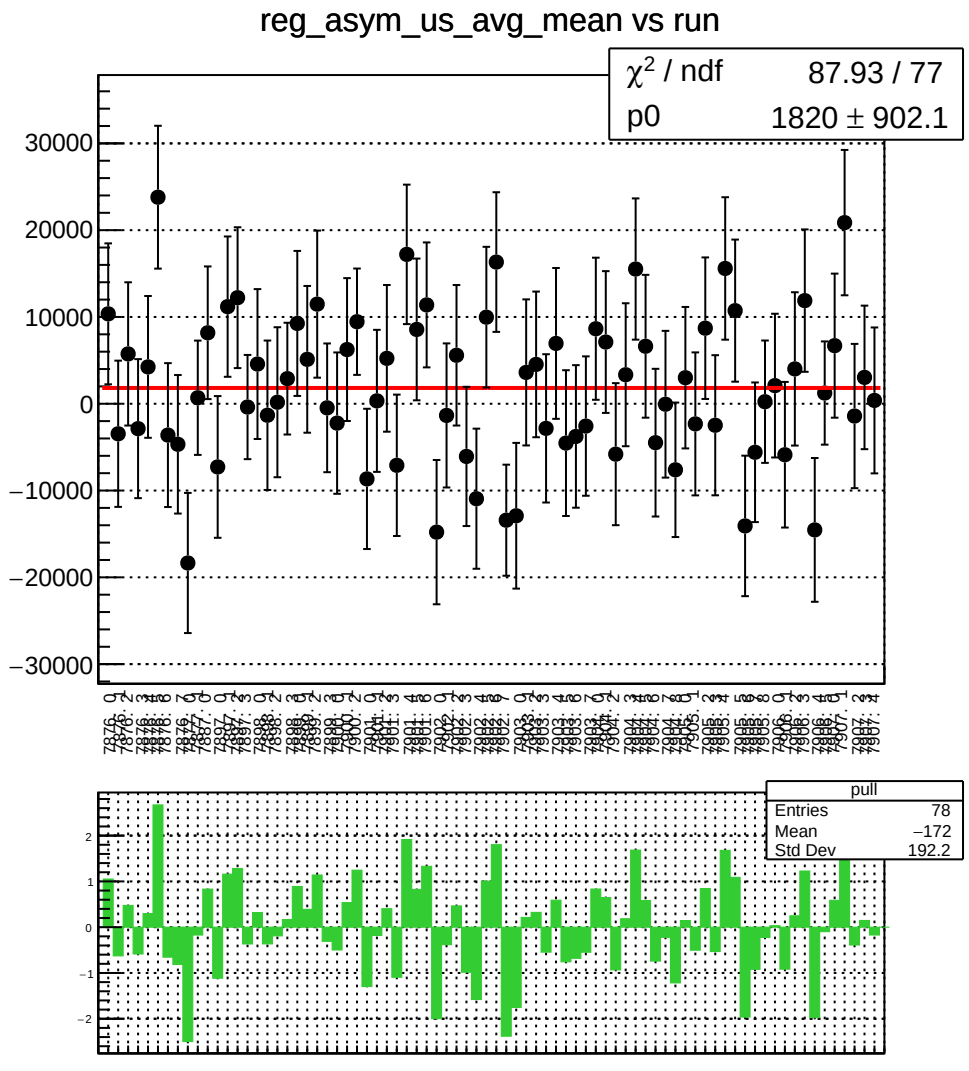
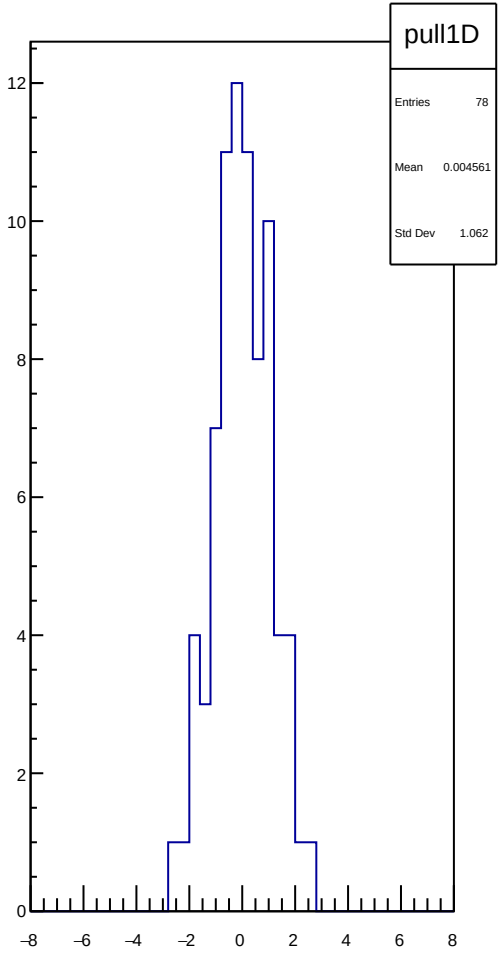
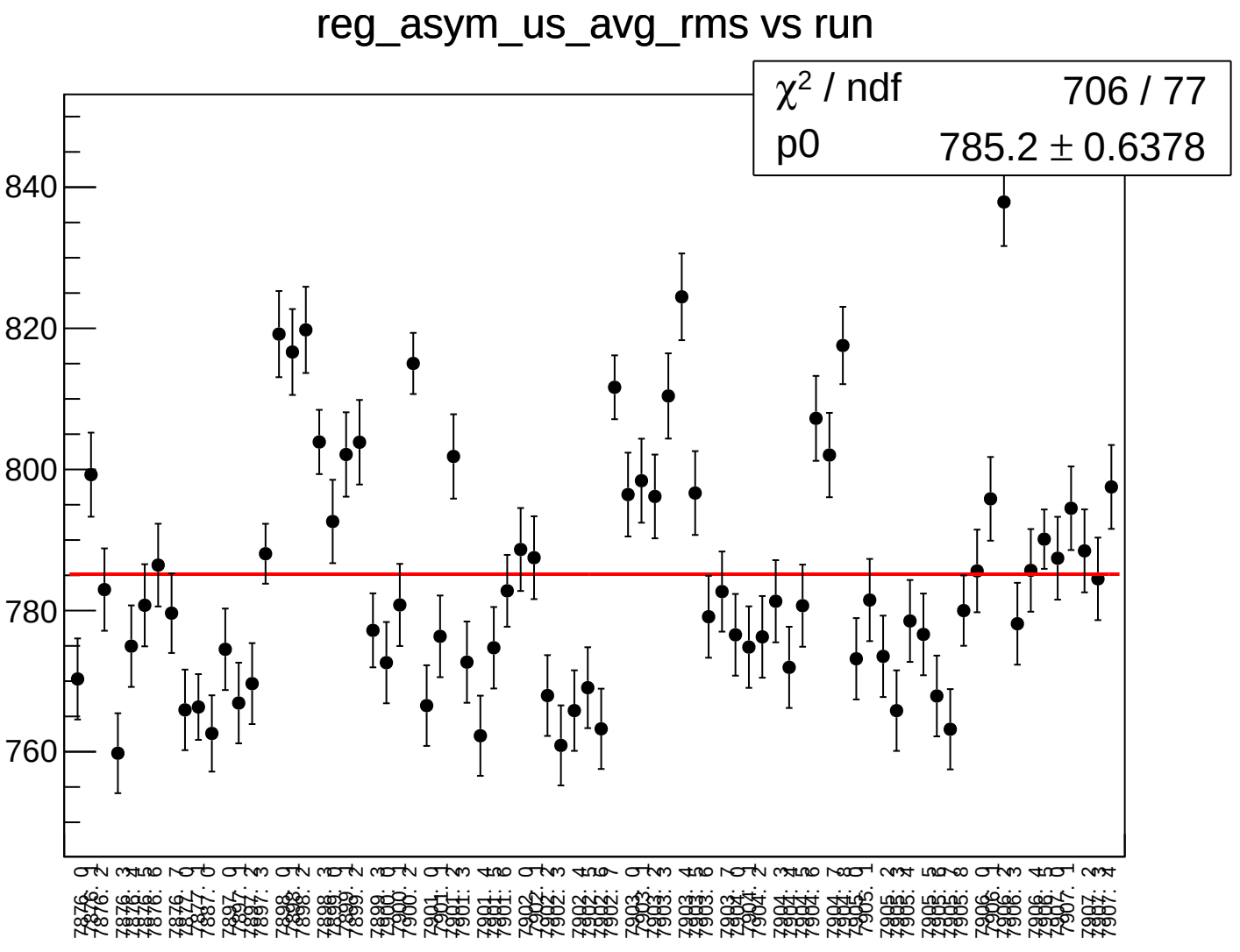
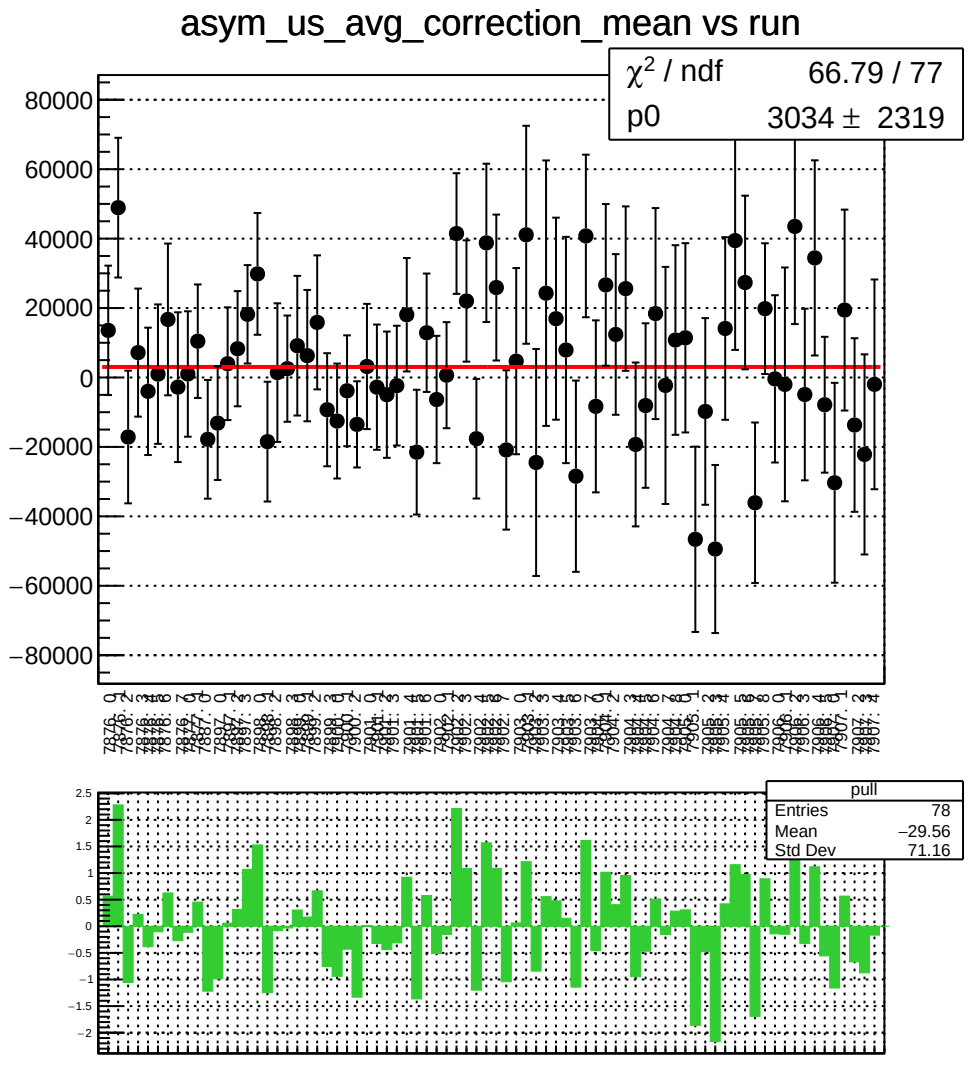
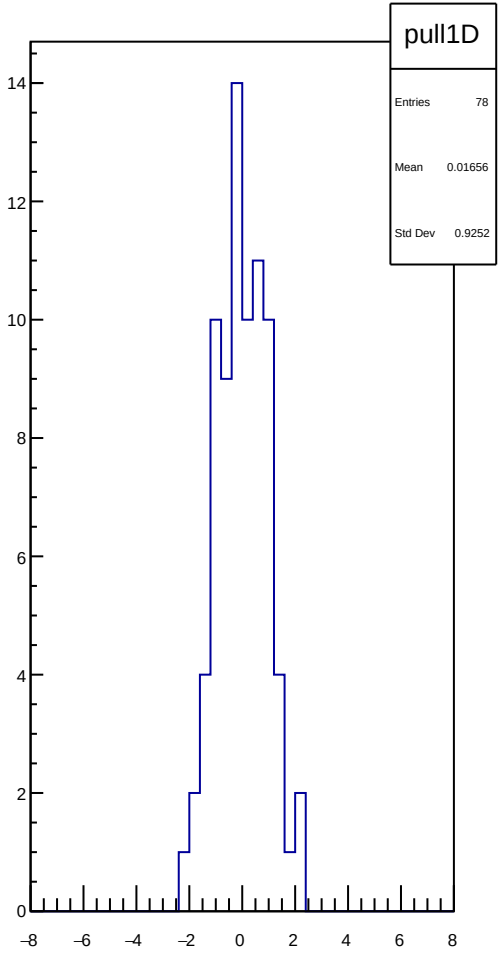
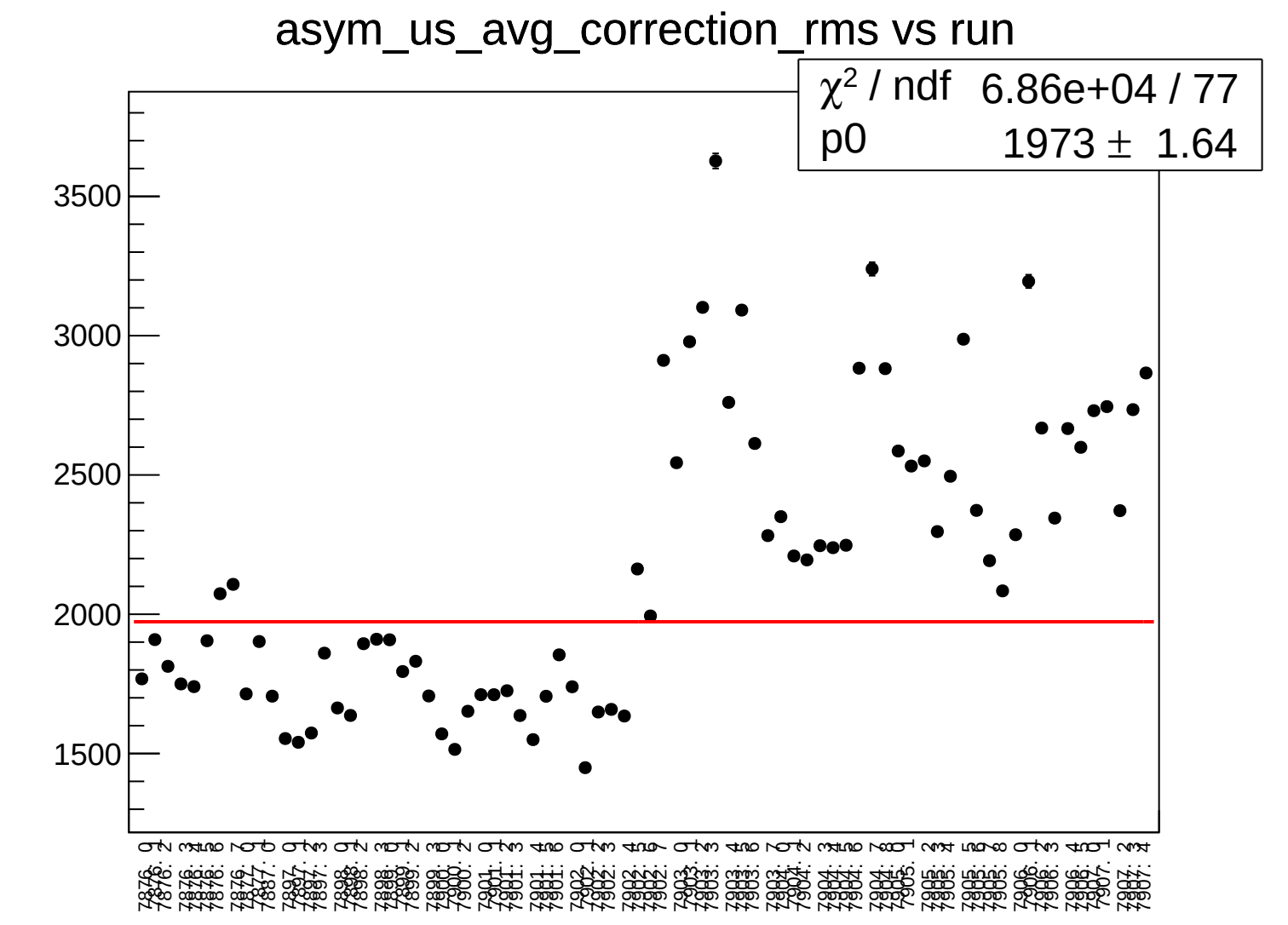

reg_asym_us_avg_mean vs run
χ² / ndf 87.93 / 77
p0 1820 ± 902.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean −172
Std Dev 192.2
2
1
0
−1
−2

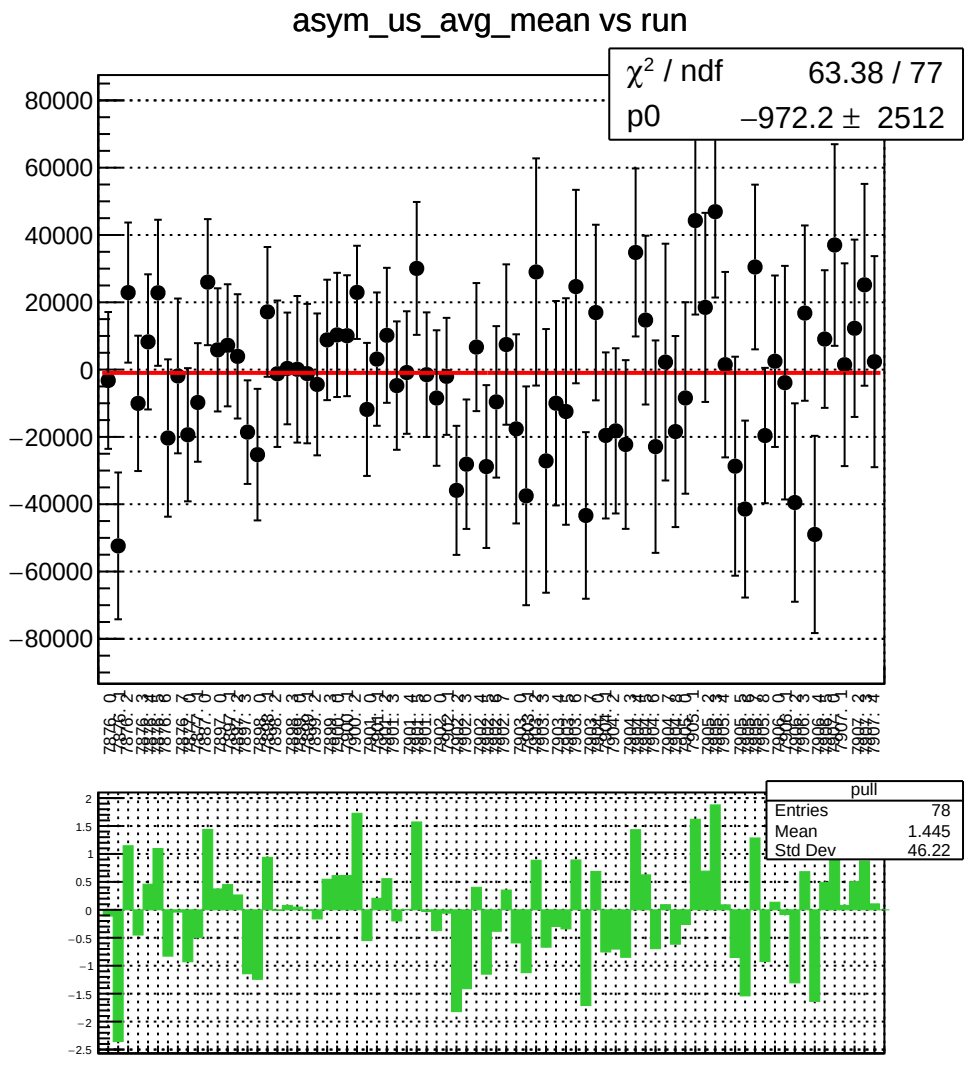

pull1D
Entries 78
Mean 0.004561
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

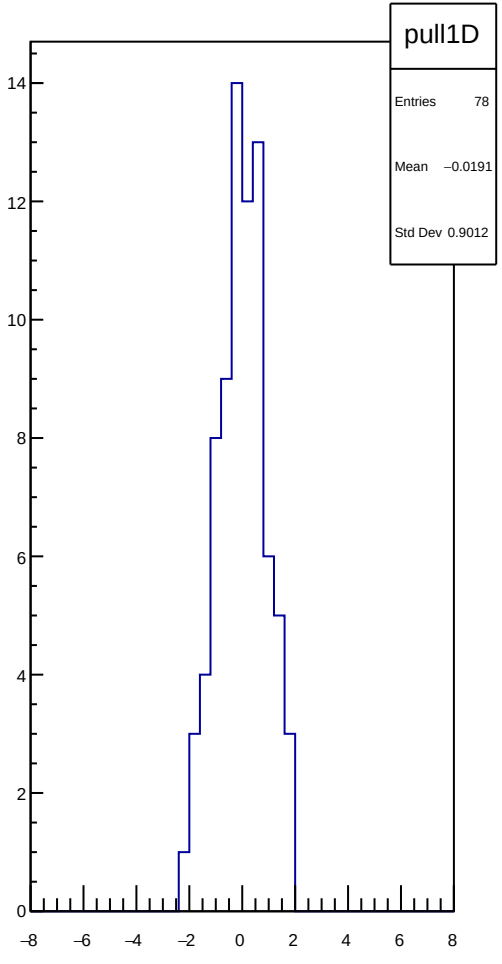

reg_asym_us_avg_rms vs run
χ² / ndf 706 / 77
p0 785.2 ± 0.6378
840
820
800
780
760

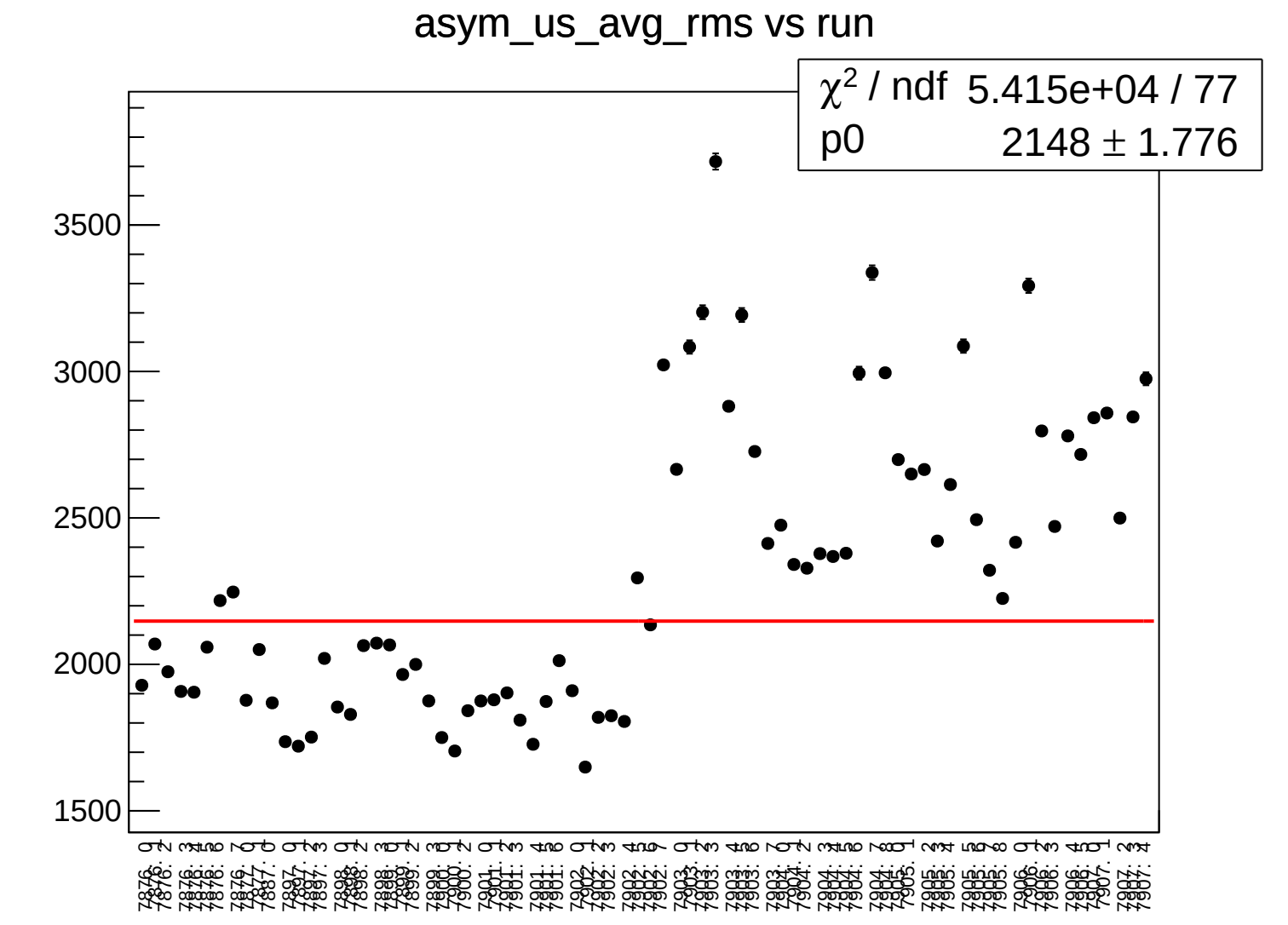

asym_us_avg_correction_mean vs run
χ² / ndf 66.79 / 77
p0 3034 ± 2319
pull
Entries 78
Mean −29.56
Std Dev 71.16

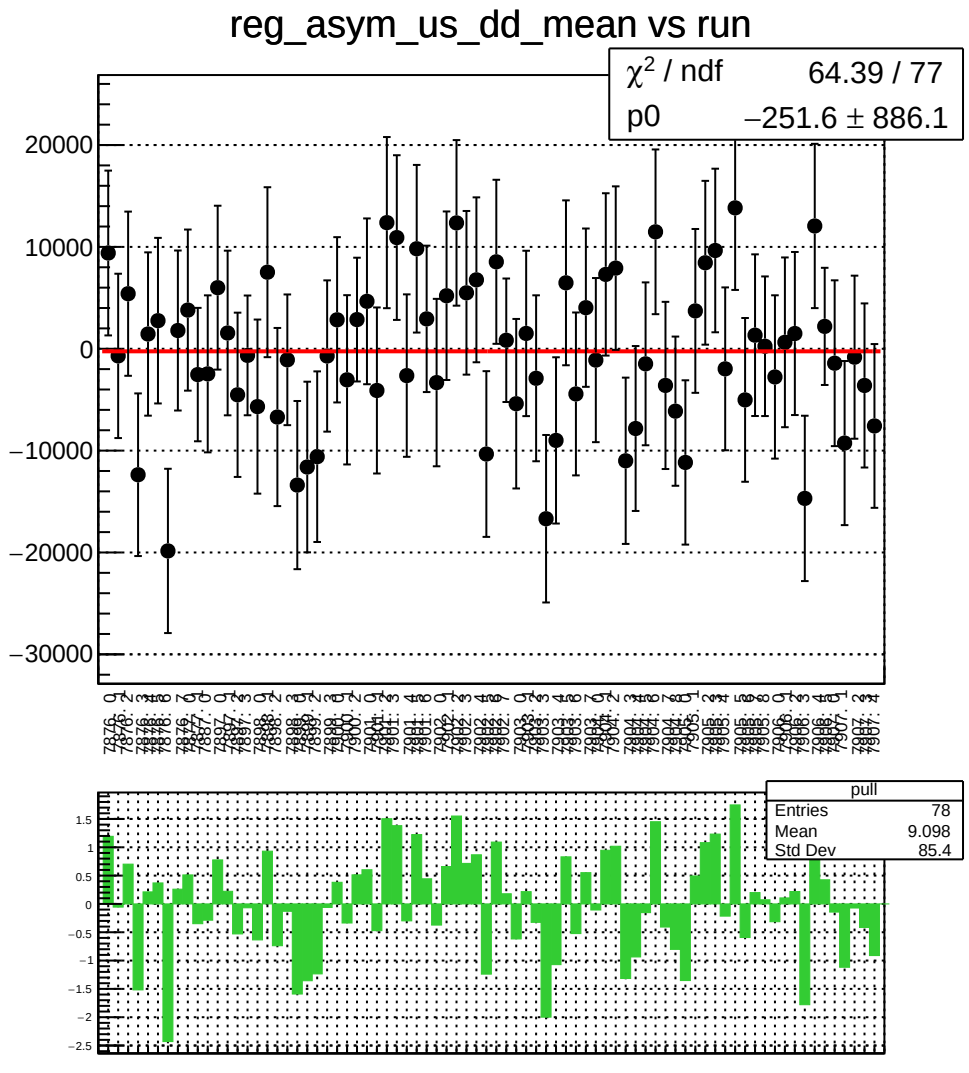

pull1D
Entries 78
Mean 0.01656
Std Dev 0.9252

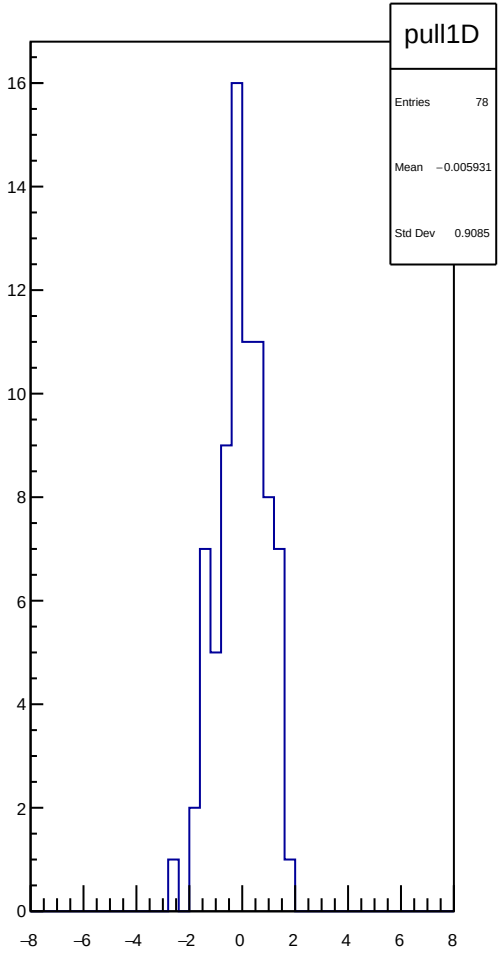

asym_us_avg_correction_rms vs run
χ² / ndf 6.86e+04 / 77
p0 1973 ± 1.64
3500
3000
2500
2000
1500

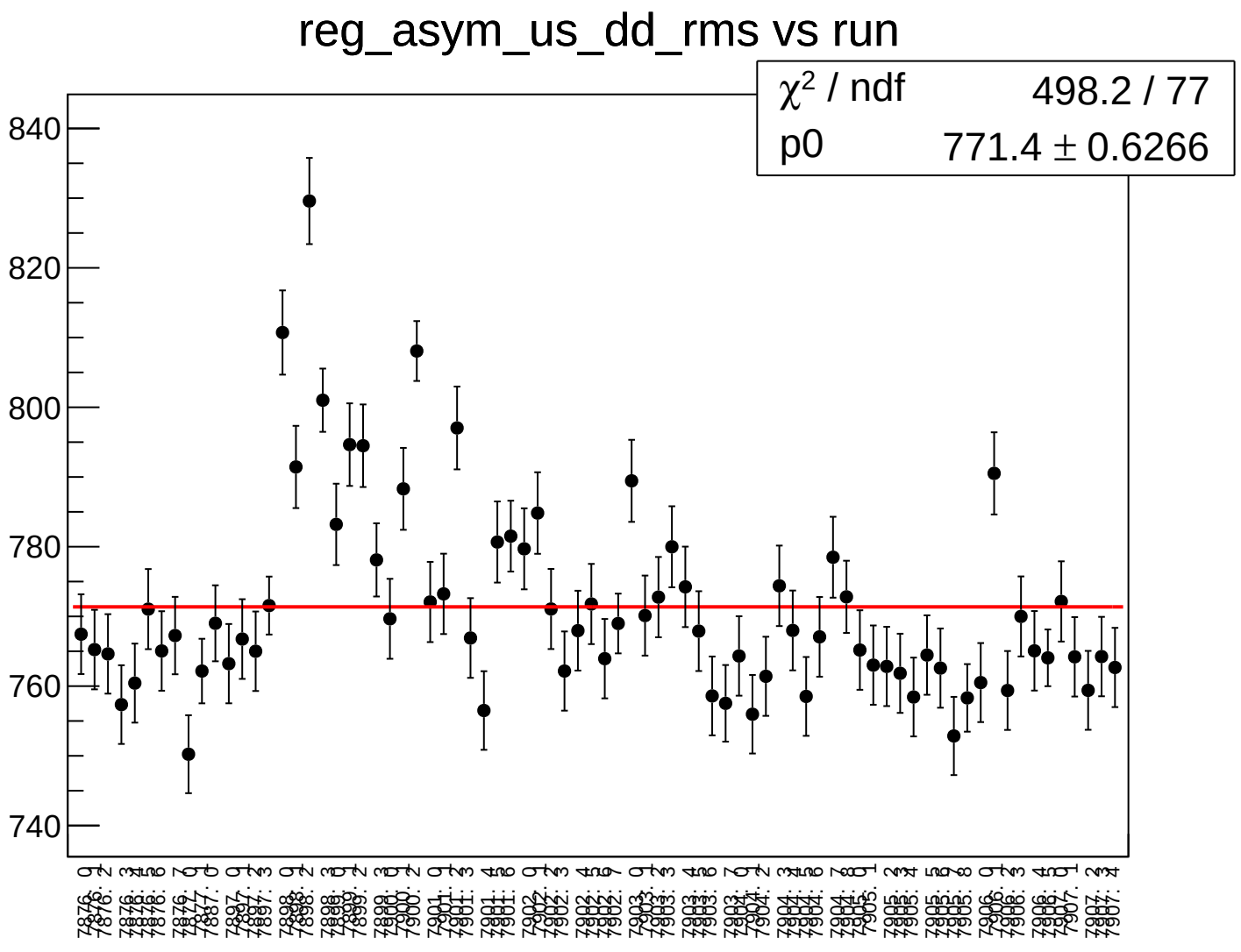

asym_us_avg_mean vs run
χ² / ndf 63.38 / 77
p0 −972.2 ± 2512
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 78
Mean 1.445
Std Dev 46.22
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

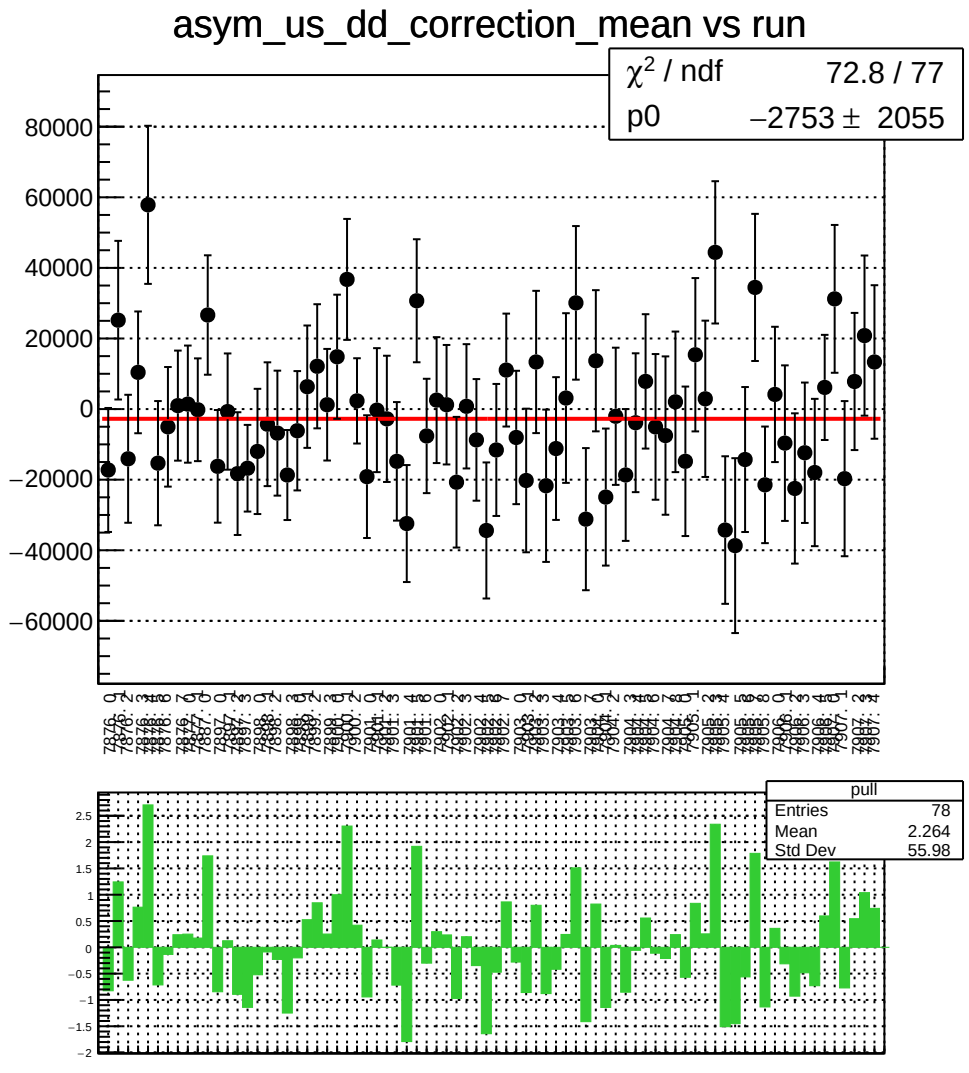

pull1D
Entries 78
Mean −0.0191
Std Dev 0.9012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

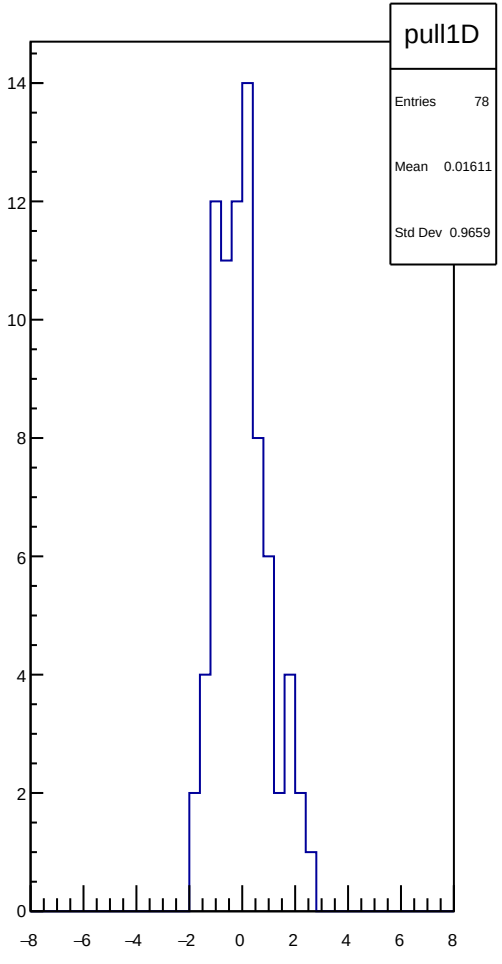

asym_us_avg_rms vs run
χ² / ndf 5.415e+04 / 77
p0 2148 ± 1.776
3500
3000
2500
2000
1500

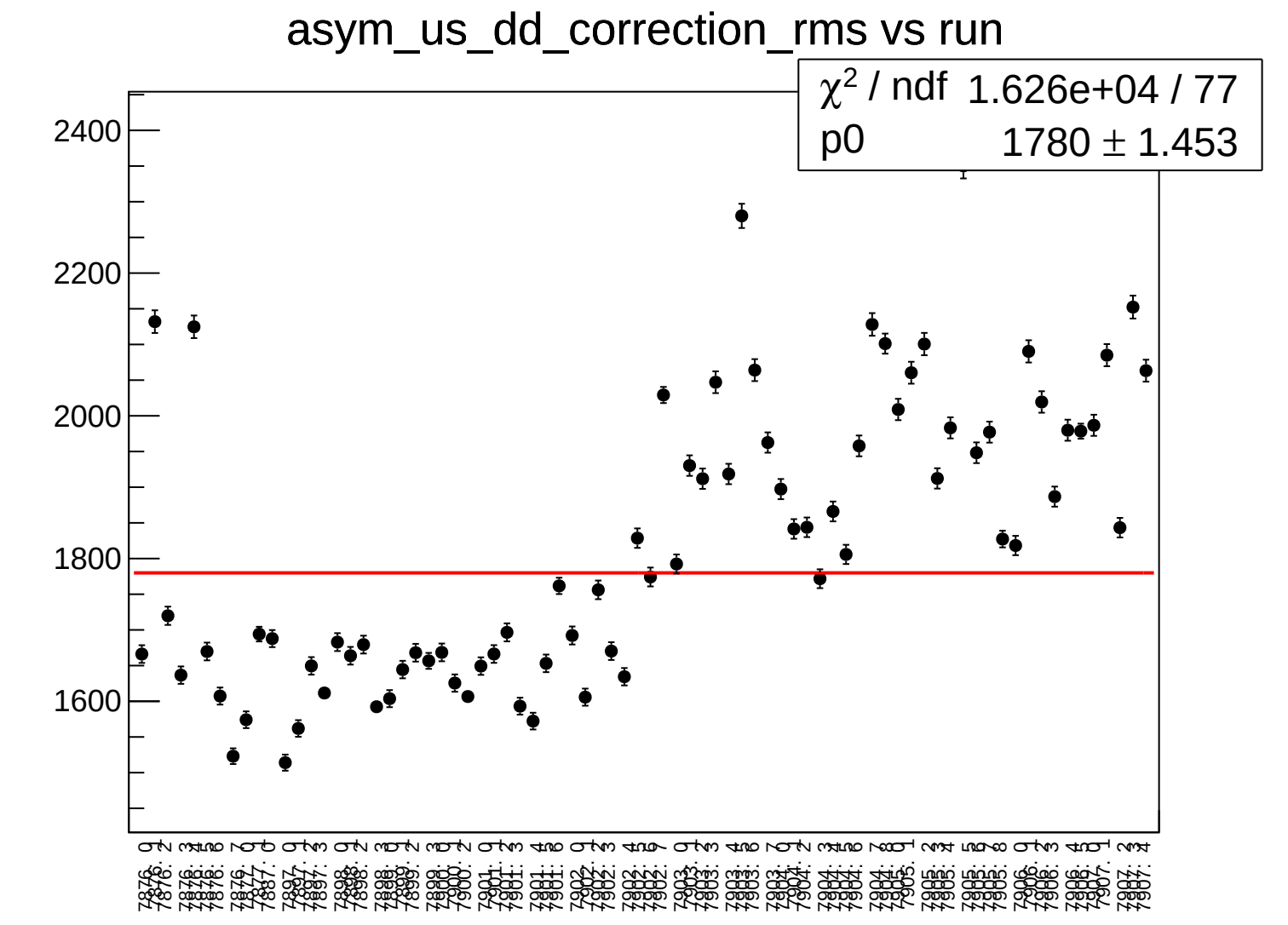

reg_asym_us_dd_mean vs run
χ² / ndf 64.39 / 77
p0 −251.6 ± 886.1
pull
Entries 78
Mean 9.098
Std Dev 85.4

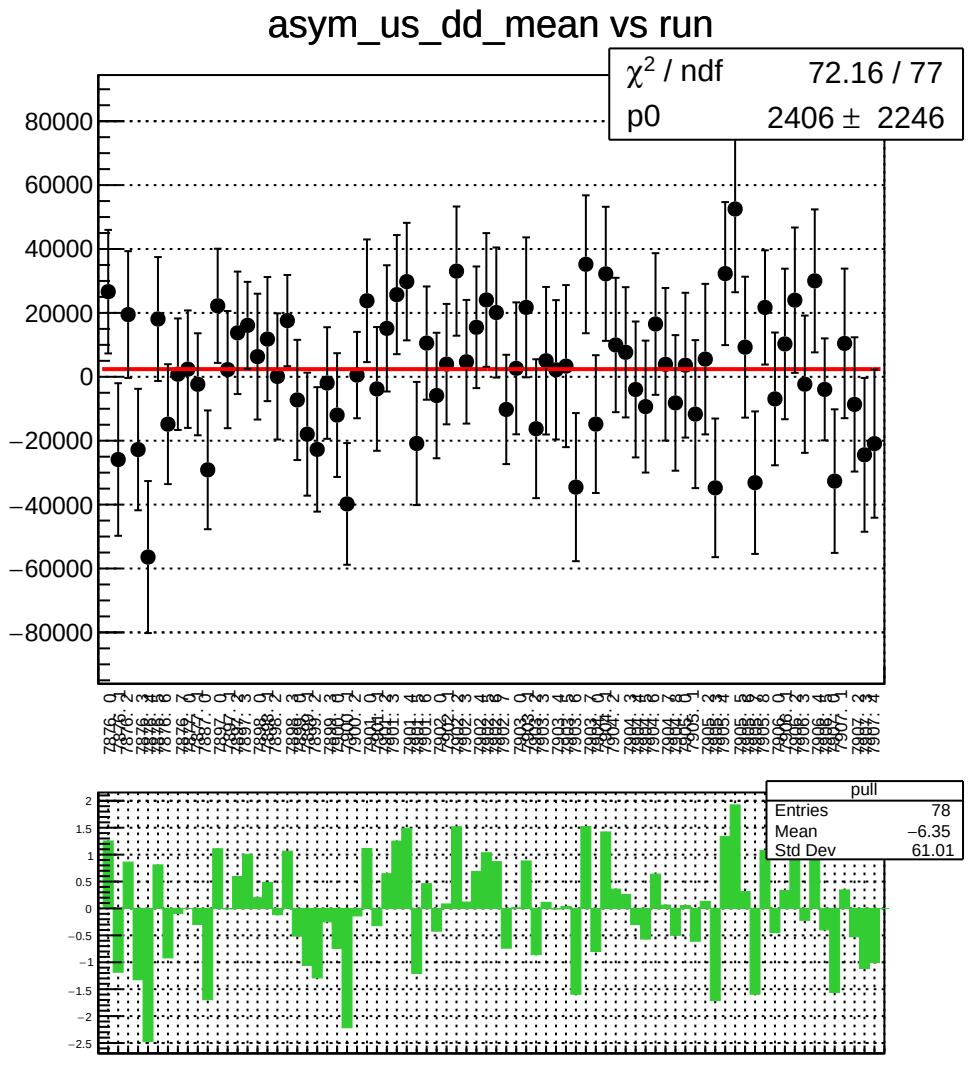

pull1D
Entries 78
Mean −0.005931
Std Dev 0.9085

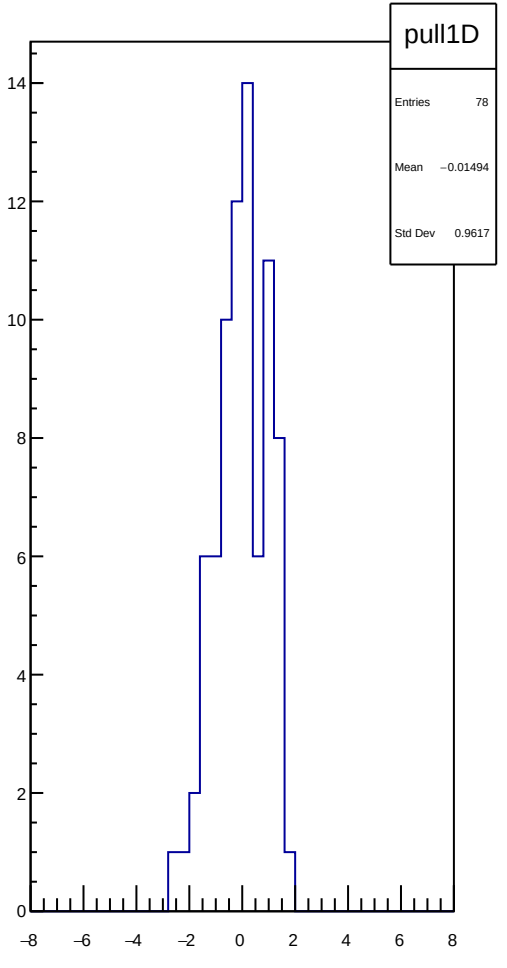

reg_asym_us_dd_rms vs run
χ² / ndf 498.2 / 77
p0 771.4 ± 0.6266
840
820
800
780
760
740

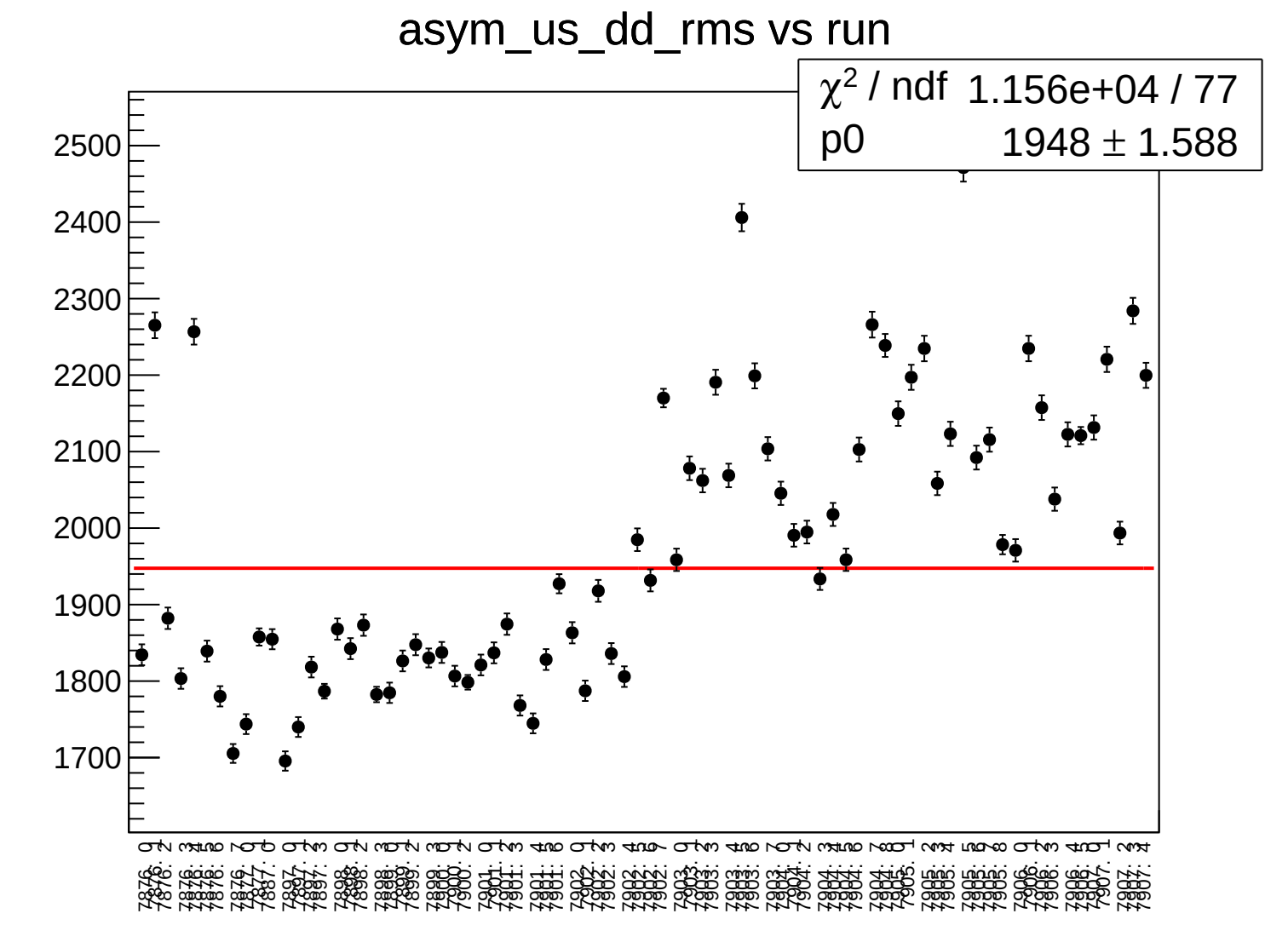

asym_us_dd_correction_mean vs run
χ² / ndf 72.8 / 77
p0 −2753 ± 2055
pull
Entries 78
Mean 2.264
Std Dev 55.98

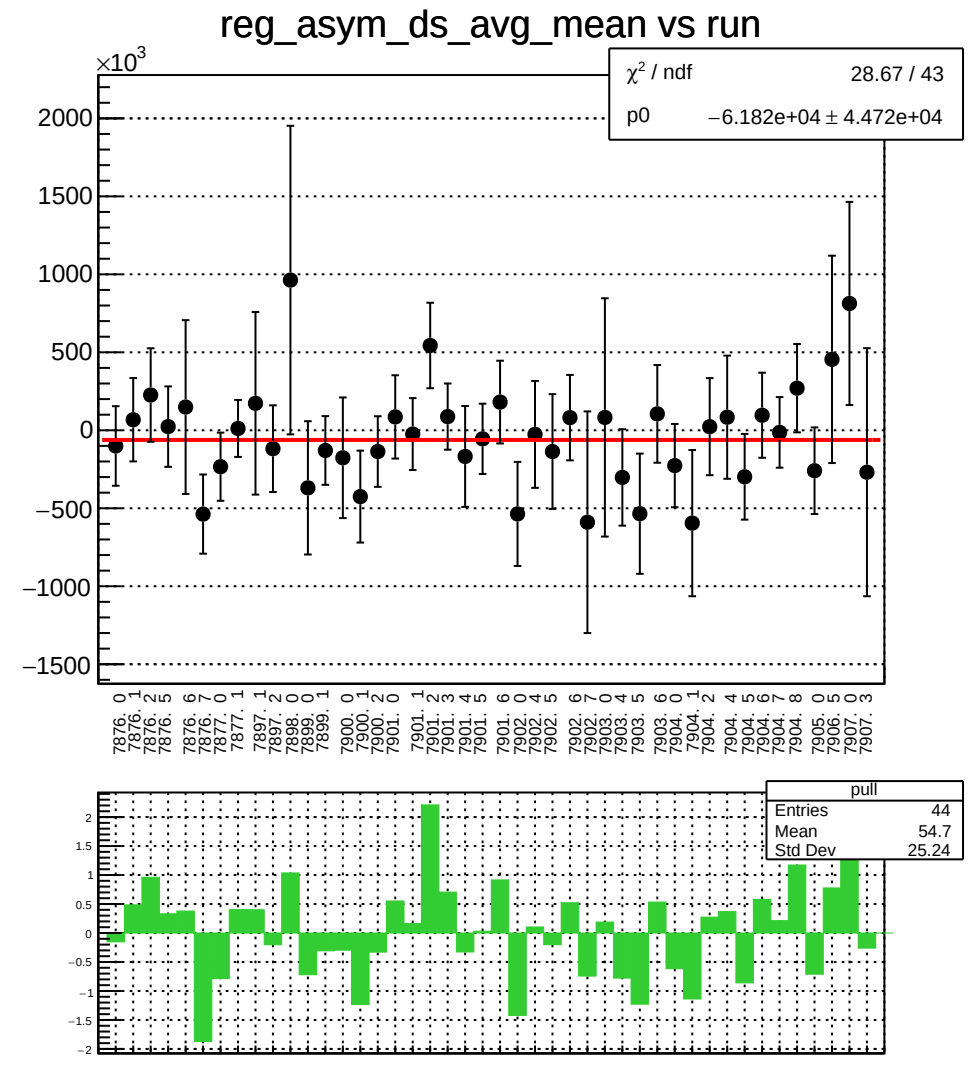

pull1D
Entries 78
Mean 0.01611
Std Dev 0.9659

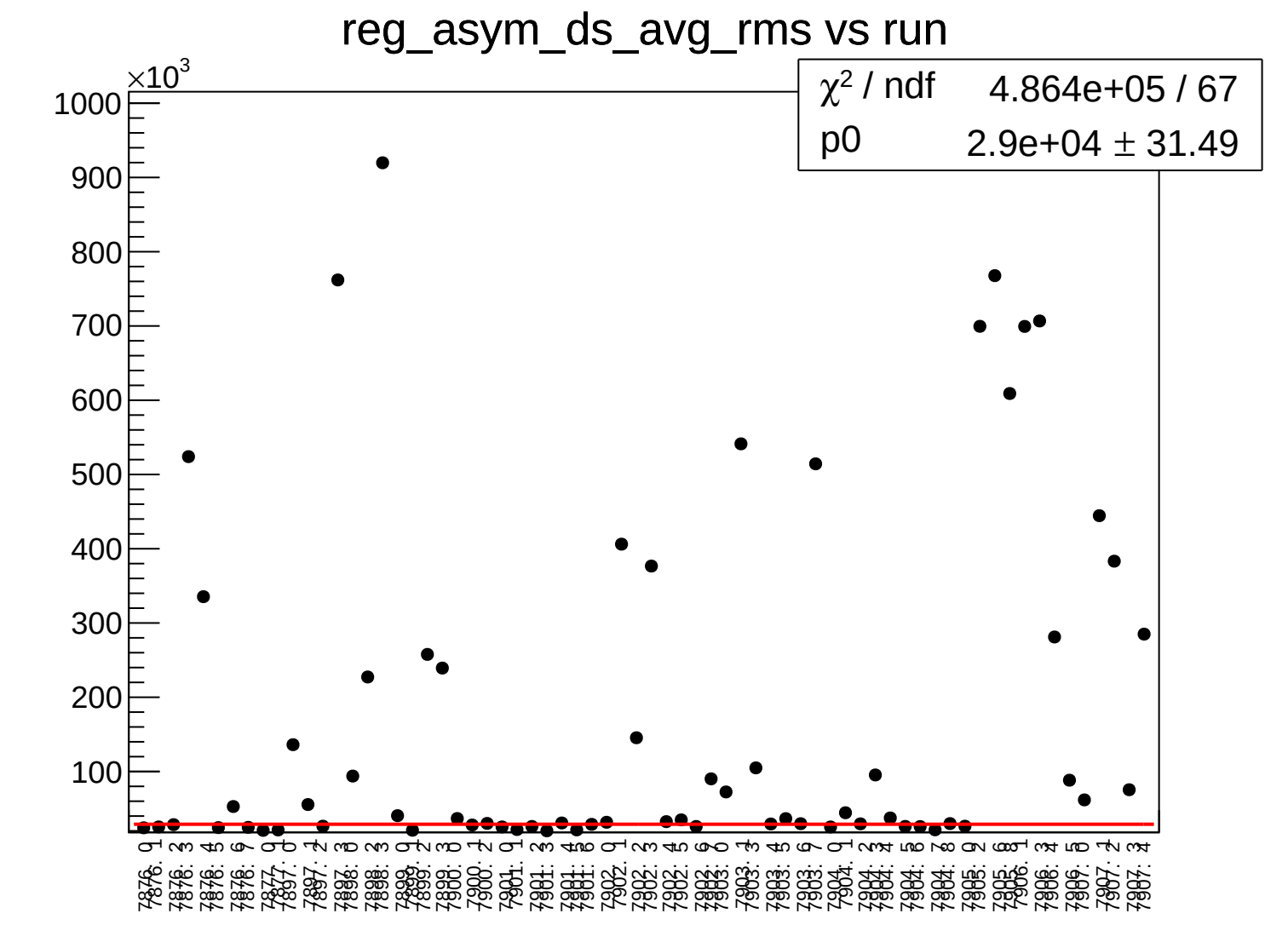

asym_us_dd_correction_rms vs run
χ² / ndf 1.626e+04 / 77
p0 1780 ± 1.453
2400
2200
2000
1800
1600

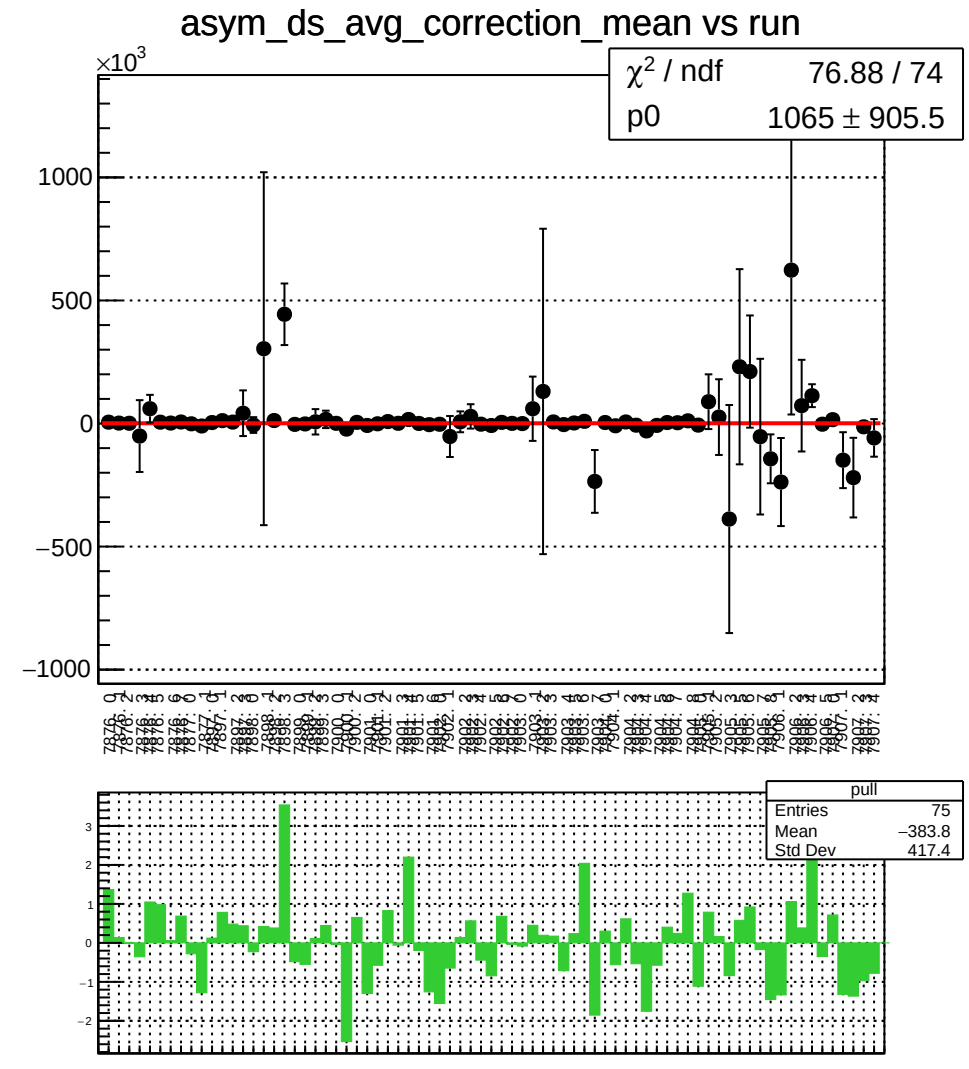

asym_us_dd_mean vs run
χ^2 / ndf 72.16 / 77
p0 2406 ± 2246
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 78
Mean −6.35
Std Dev 61.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

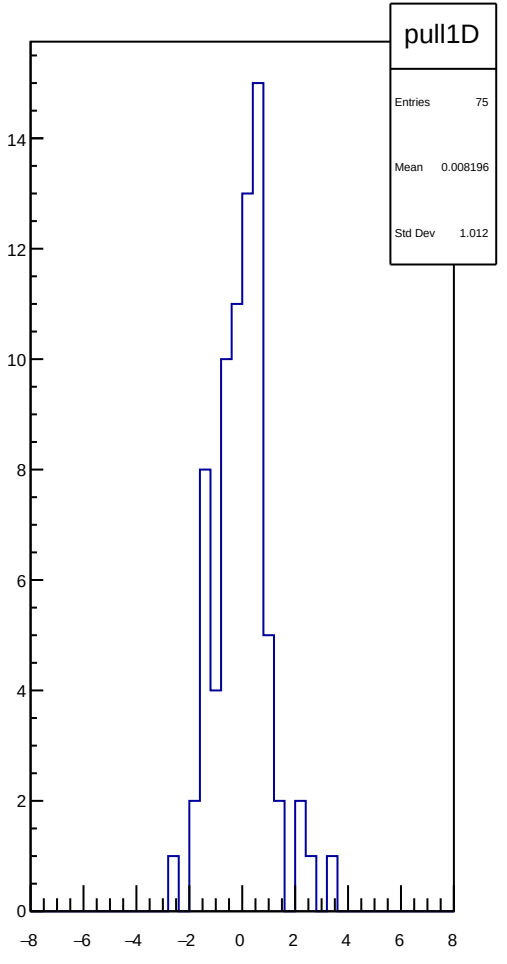

pull1D
Entries 78
Mean −0.01494
Std Dev 0.9617
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

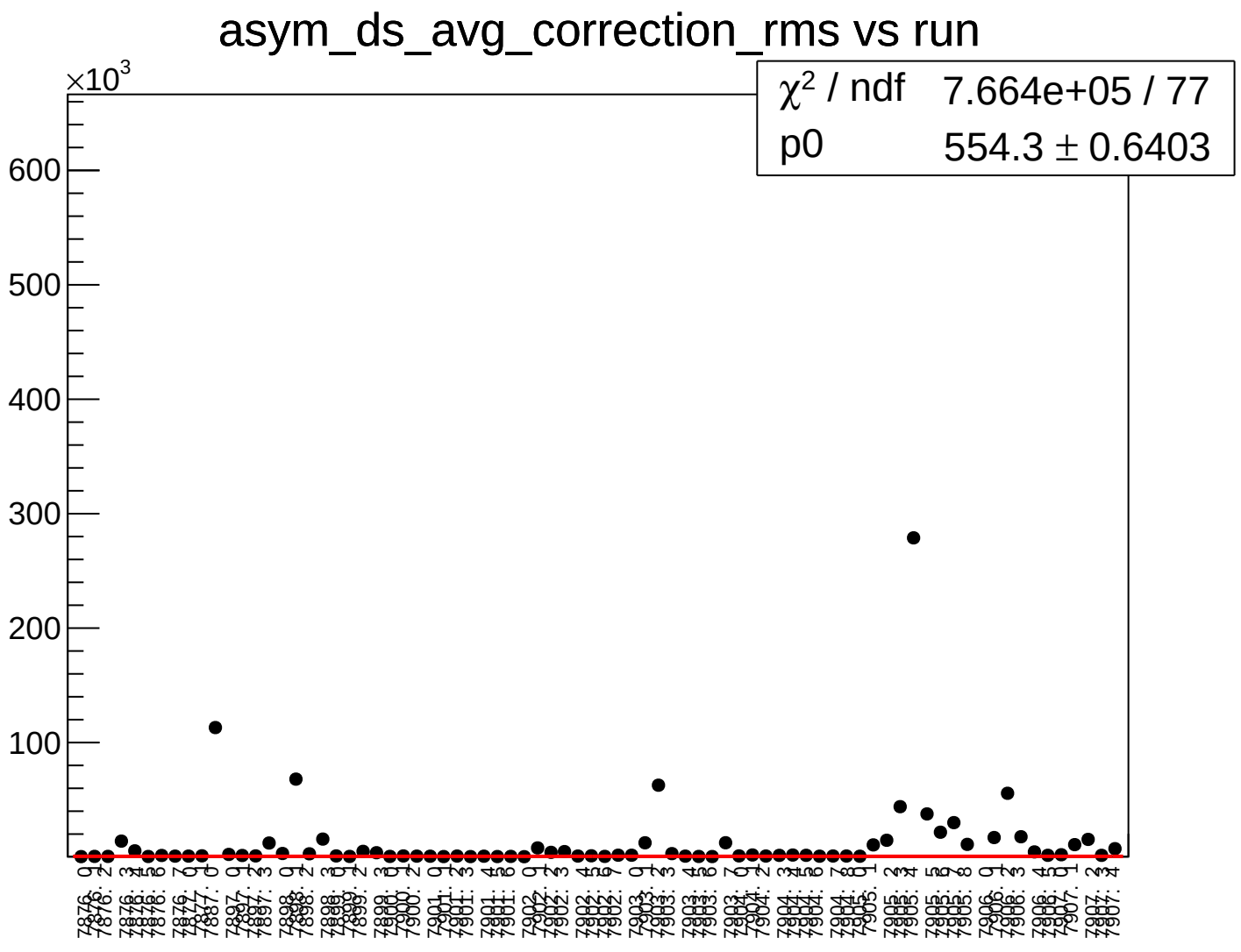

asym_us_dd_rms vs run
χ² / ndf 1.156e+04 / 77
p0 1948 ± 1.588
2500
2400
2300
2200
2100
2000
1900
1800
1700

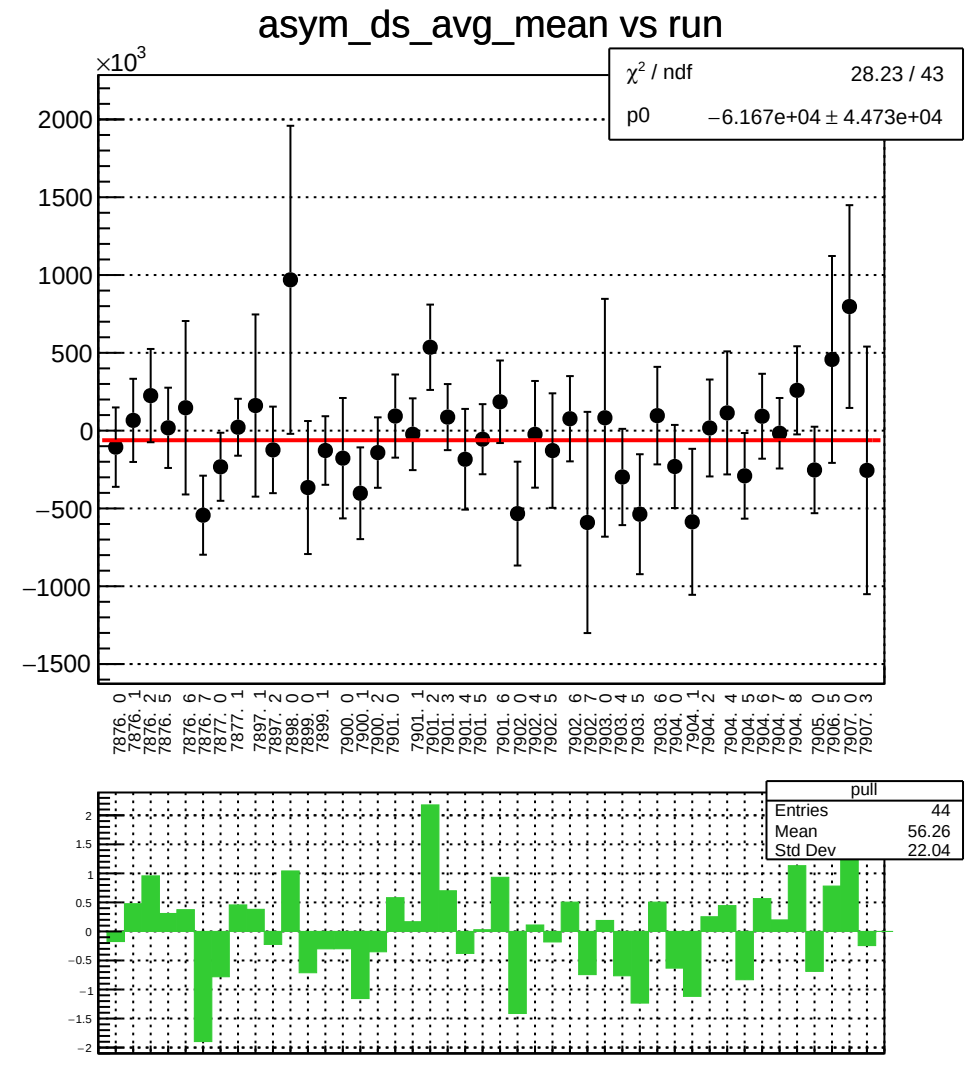

reg_asym_ds_avg_mean vs run
×10^3
χ² / ndf 28.67 / 43
p0 −6.182e+04 ± 4.472e+04
2000
1500
1000
500
0
−500
−1000
−1500
7876. 0
7876. 1
7876. 2
7876. 5
7876. 6
7876. 7
7877. 0
7877. 1
7897. 1
7897. 2
7898. 0
7899. 0
7899. 1
7900. 0
7900. 1
7900. 2
7901. 0
7901. 1
7901. 2
7901. 3
7901. 4
7901. 5
7901. 6
7902. 0
7902. 4
7902. 5
7902. 6
7902. 7
7903. 0
7903. 4
7903. 5
7903. 6
7904. 0
7904. 1
7904. 2
7904. 4
7904. 5
7904. 6
7904. 7
7904. 8
7905. 0
7906. 5
7907. 0
7907. 3
pull
Entries 44
Mean 54.7
Std Dev 25.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean 0.01069
Std Dev 0.8071
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

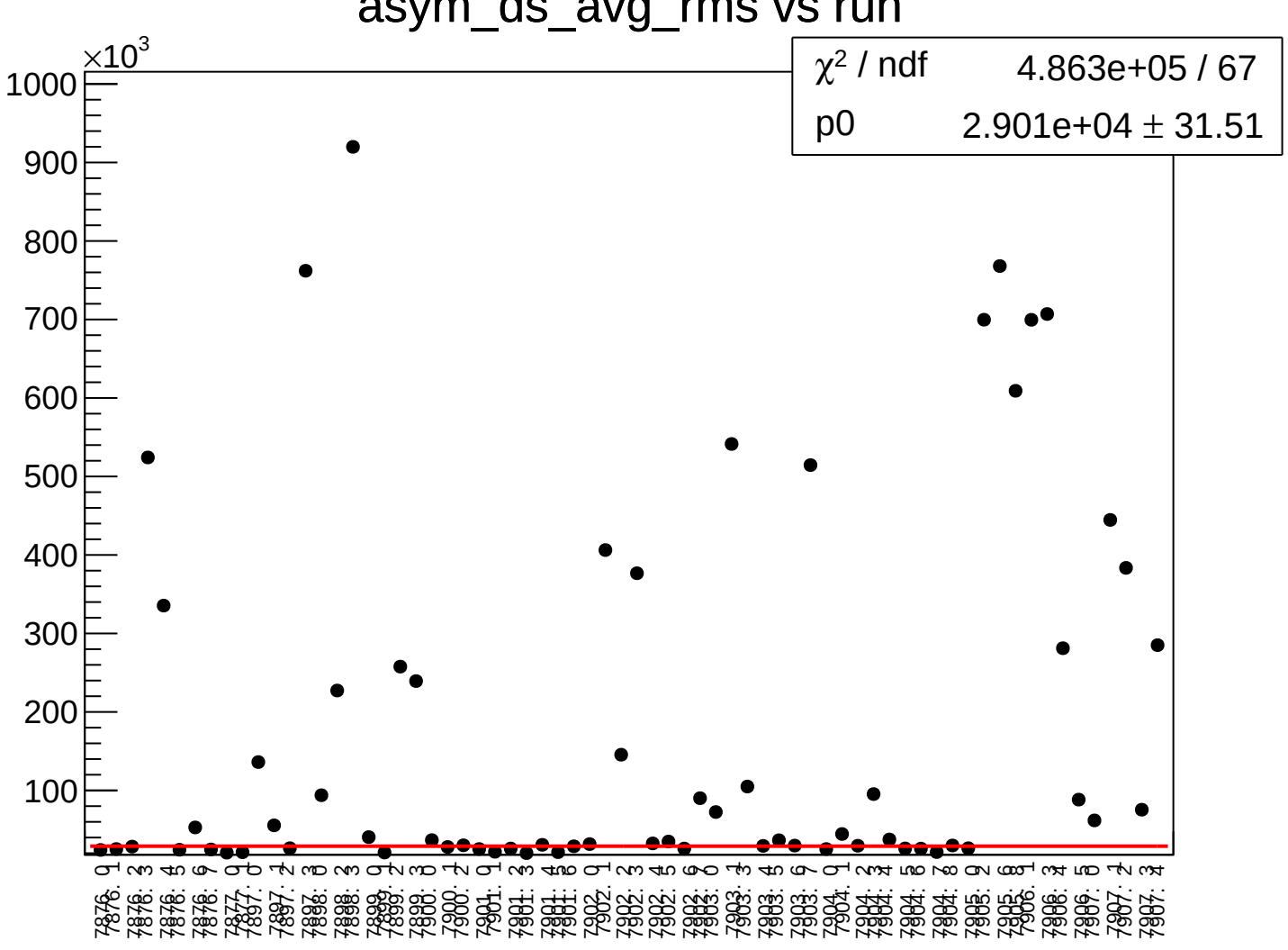

reg_asym_ds_avg_rms vs run
×10^3
1000
900
800
700
600
500
400
300
200
100
χ² / ndf 4.864e+05 / 67
p0 2.9e+04 ± 31.49

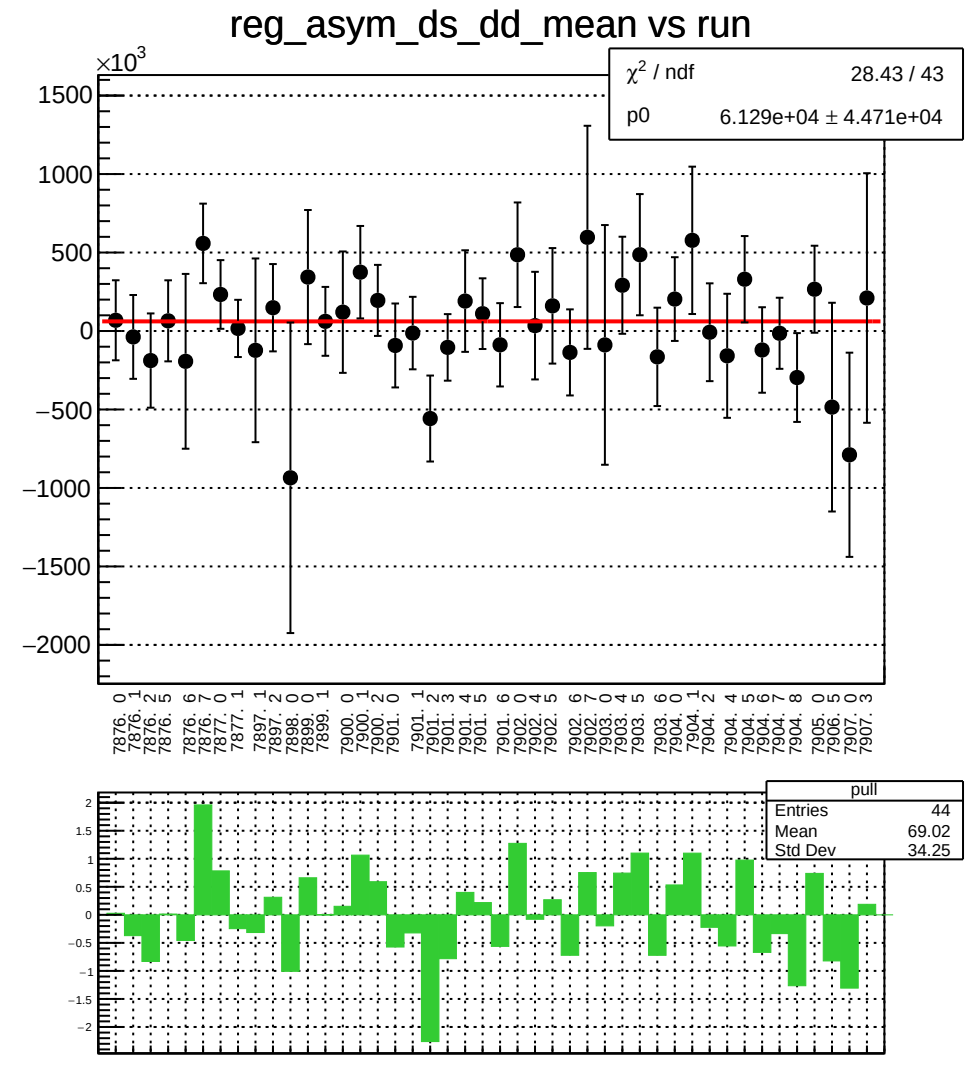

asym_ds_avg_correction_mean vs run
×10^3
χ² / ndf 76.88 / 74
p0 1065 ± 905.5
1000
500
0
−500
−1000
pull
Entries 75
Mean −383.8
Std Dev 417.4
3
2
1
0
−1
−2

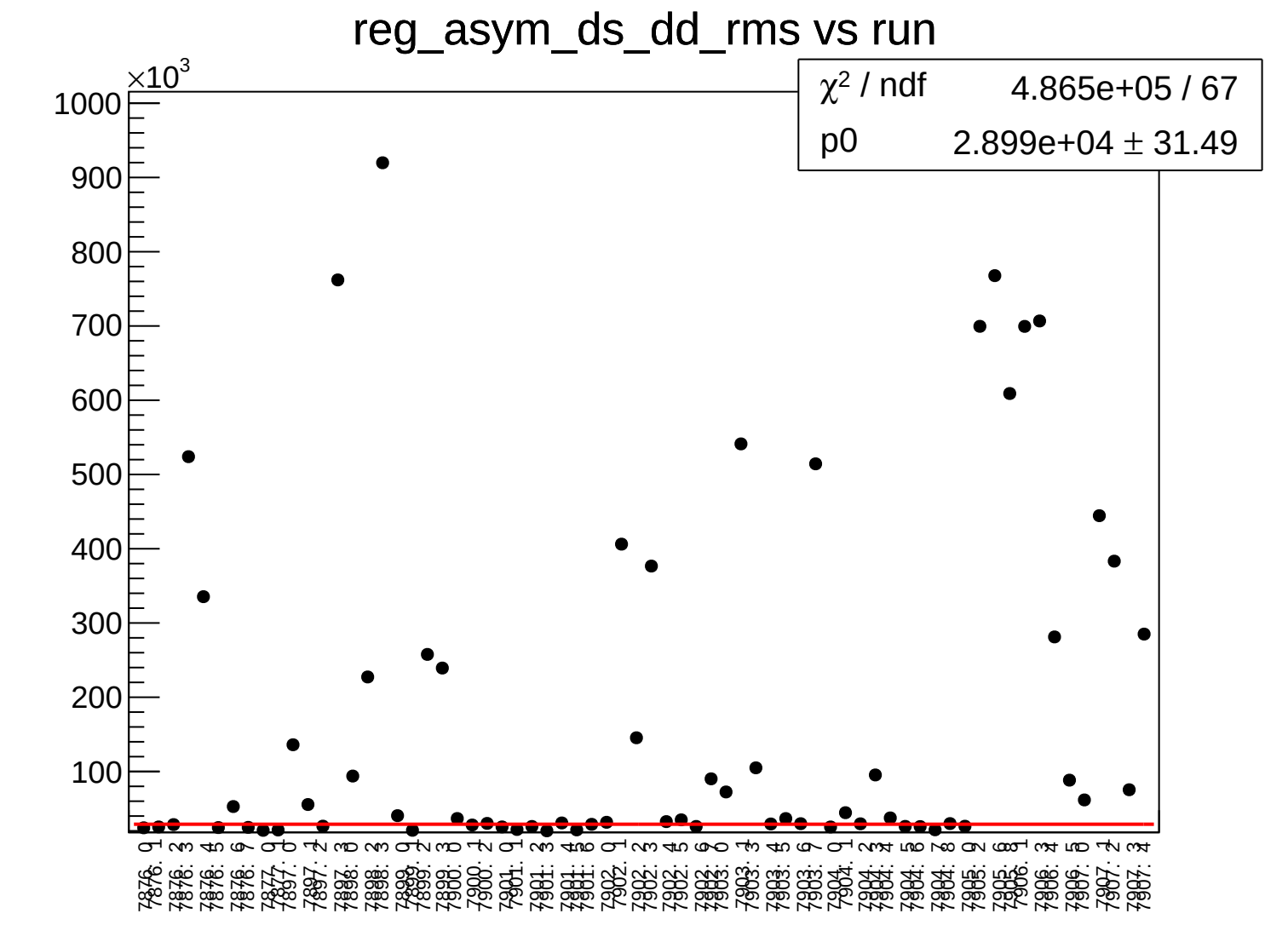

pull1D
Entries 75
Mean 0.008196
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

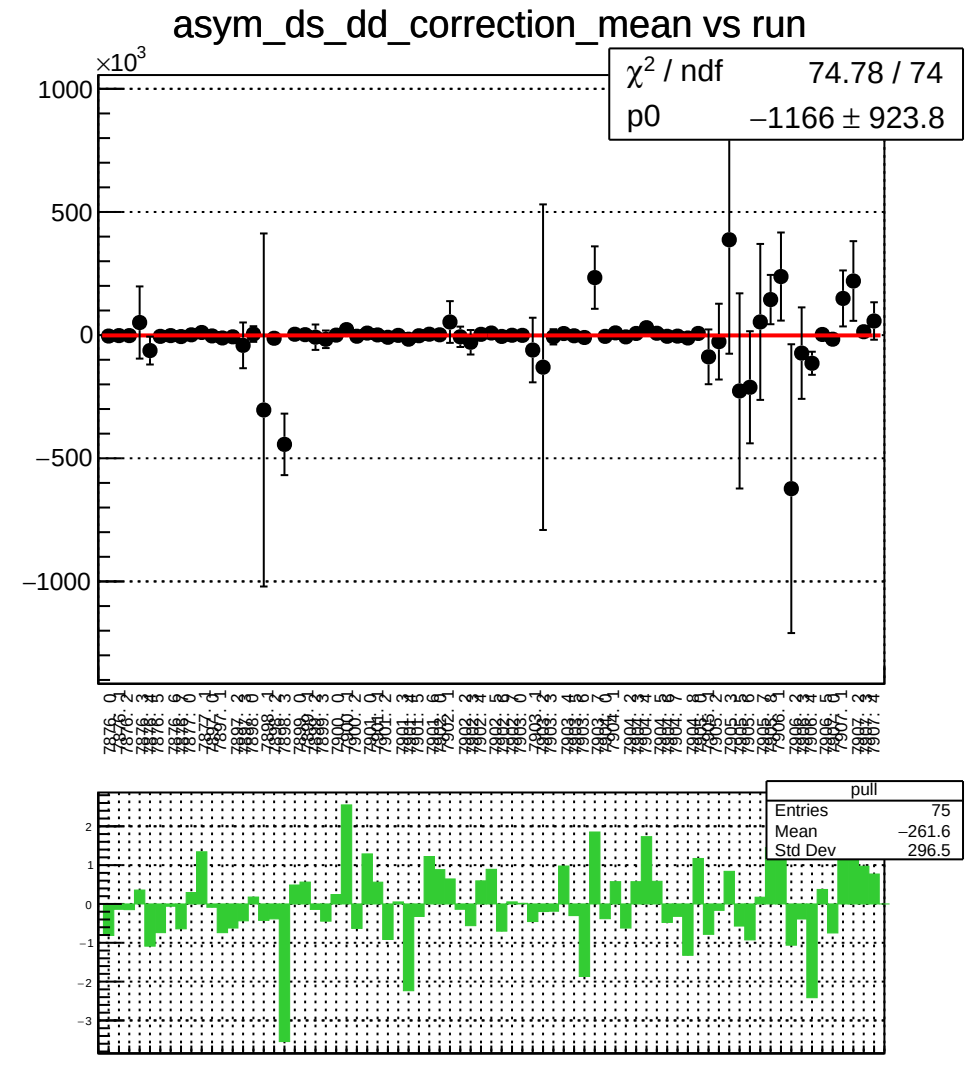

asym_ds_avg_correction_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 7.664e+05 / 77
p0 554.3 ± 0.6403

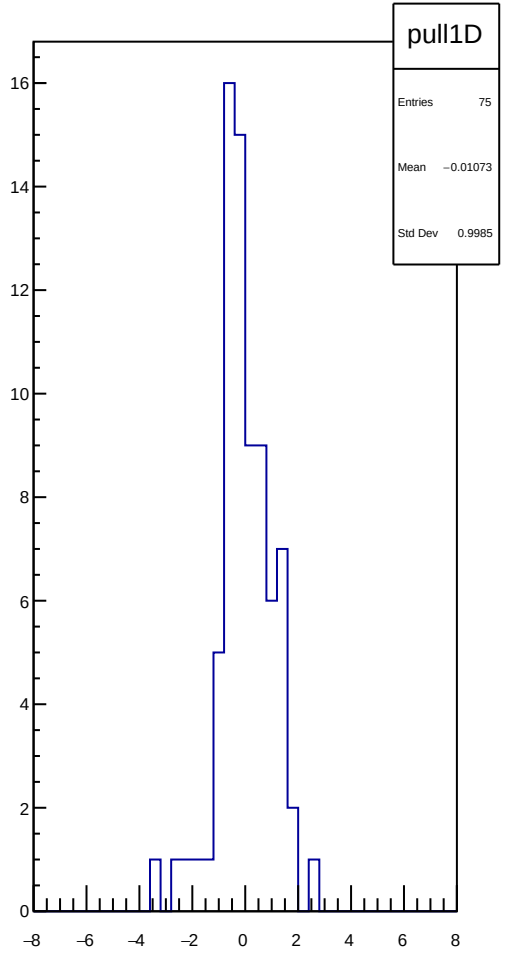

asym_ds_avg_mean vs run
×10^3
χ² / ndf 28.23 / 43
p0 −6.167e+04 ± 4.473e+04
2000
1500
1000
500
0
−500
−1000
−1500
7876. 0
7876. 1
7876. 2
7876. 5
7876. 6
7876. 7
7877. 0
7877. 1
7897. 1
7897. 2
7898. 0
7899. 0
7899. 1
7900. 0
7900. 1
7900. 2
7901. 0
7901. 1
7901. 2
7901. 3
7901. 4
7901. 5
7901. 6
7902. 0
7902. 4
7902. 5
7902. 6
7902. 7
7903. 0
7903. 4
7903. 5
7903. 6
7904. 0
7904. 1
7904. 2
7904. 4
7904. 5
7904. 6
7904. 7
7904. 8
7905. 0
7906. 5
7907. 0
7907. 3
pull
Entries 44
Mean 56.26
Std Dev 22.04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean 0.01077
Std Dev 0.8009
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

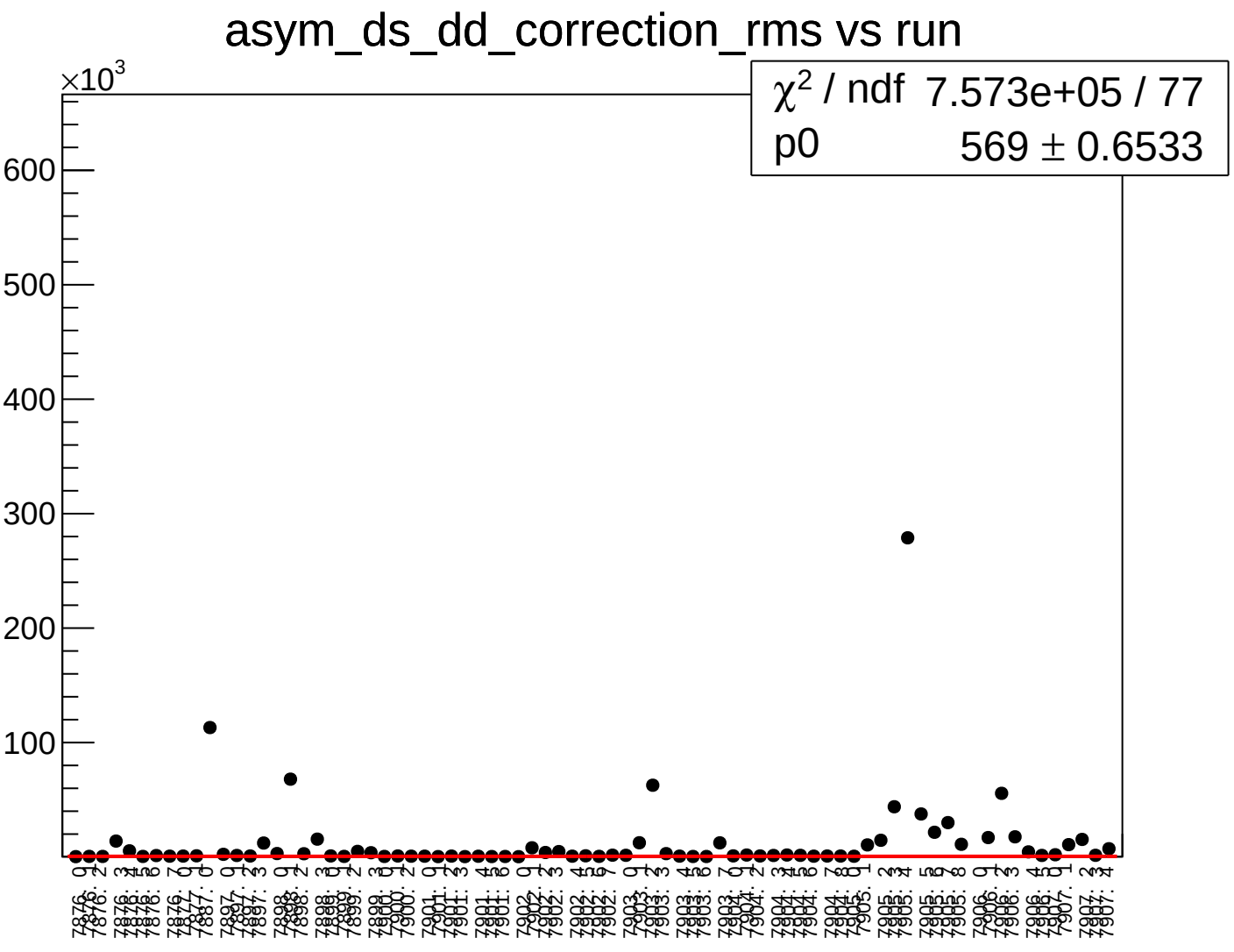

asym_ds_avg_rms vs run
×10^3
χ² / ndf 4.863e+05 / 67
p0 2.901e+04 ± 31.51
1000
900
800
700
600
500
400
300
200
100

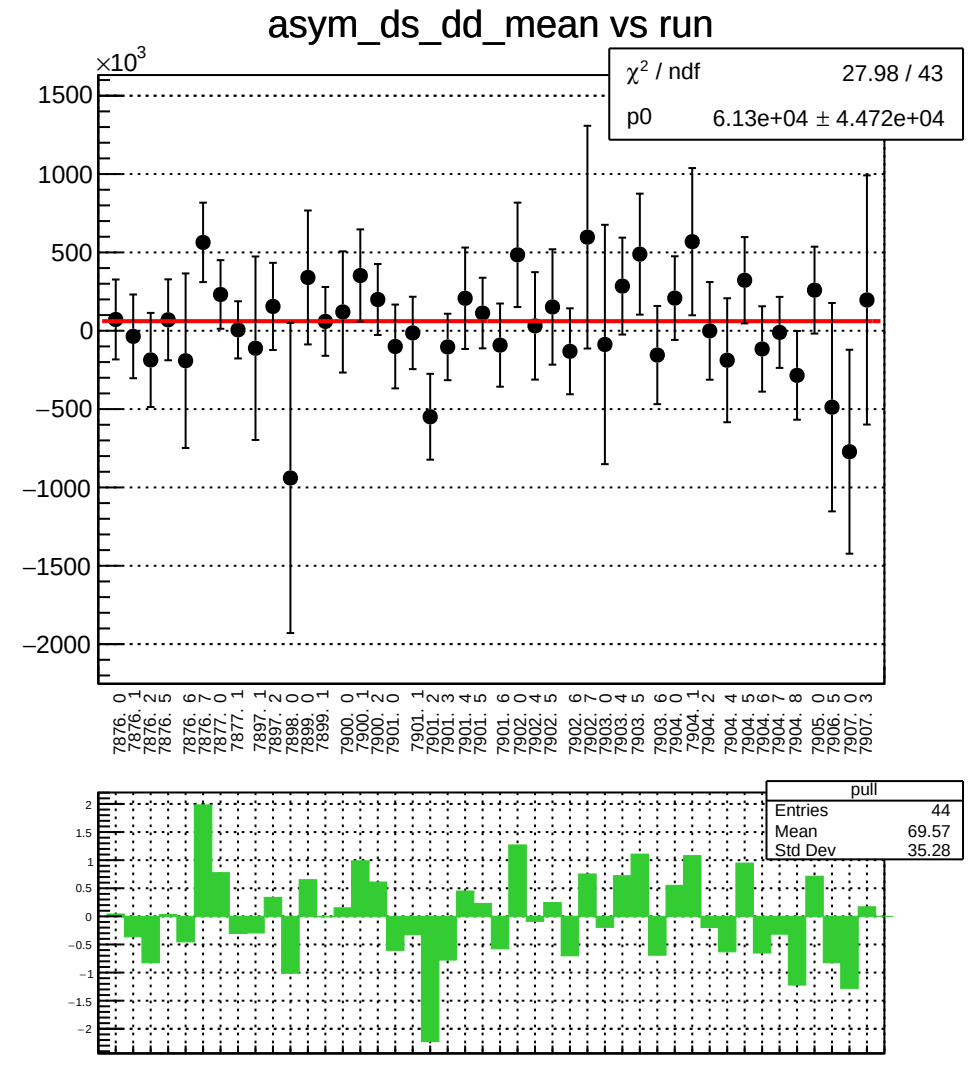

reg_asym_ds_dd_mean vs run
×10^3
χ² / ndf 28.43 / 43
p0 6.129e+04 ± 4.471e+04
1500
1000
500
0
−500
−1000
−1500
−2000
7876. 0
7876. 1
7876. 2
7876. 5
7876. 6
7876. 7
7877. 0
7877. 1
7897. 1
7897. 2
7898. 0
7899. 0
7899. 1
7900. 0
7900. 1
7900. 2
7901. 0
7901. 1
7901. 2
7901. 3
7901. 4
7901. 5
7901. 6
7902. 0
7902. 4
7902. 5
7902. 6
7902. 7
7903. 0
7903. 4
7903. 5
7903. 6
7904. 0
7904. 1
7904. 2
7904. 4
7904. 5
7904. 6
7904. 7
7904. 8
7905. 0
7906. 5
7907. 0
7907. 3
pull
Entries 44
Mean 69.02
Std Dev 34.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean −0.01703
Std Dev 0.8036
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

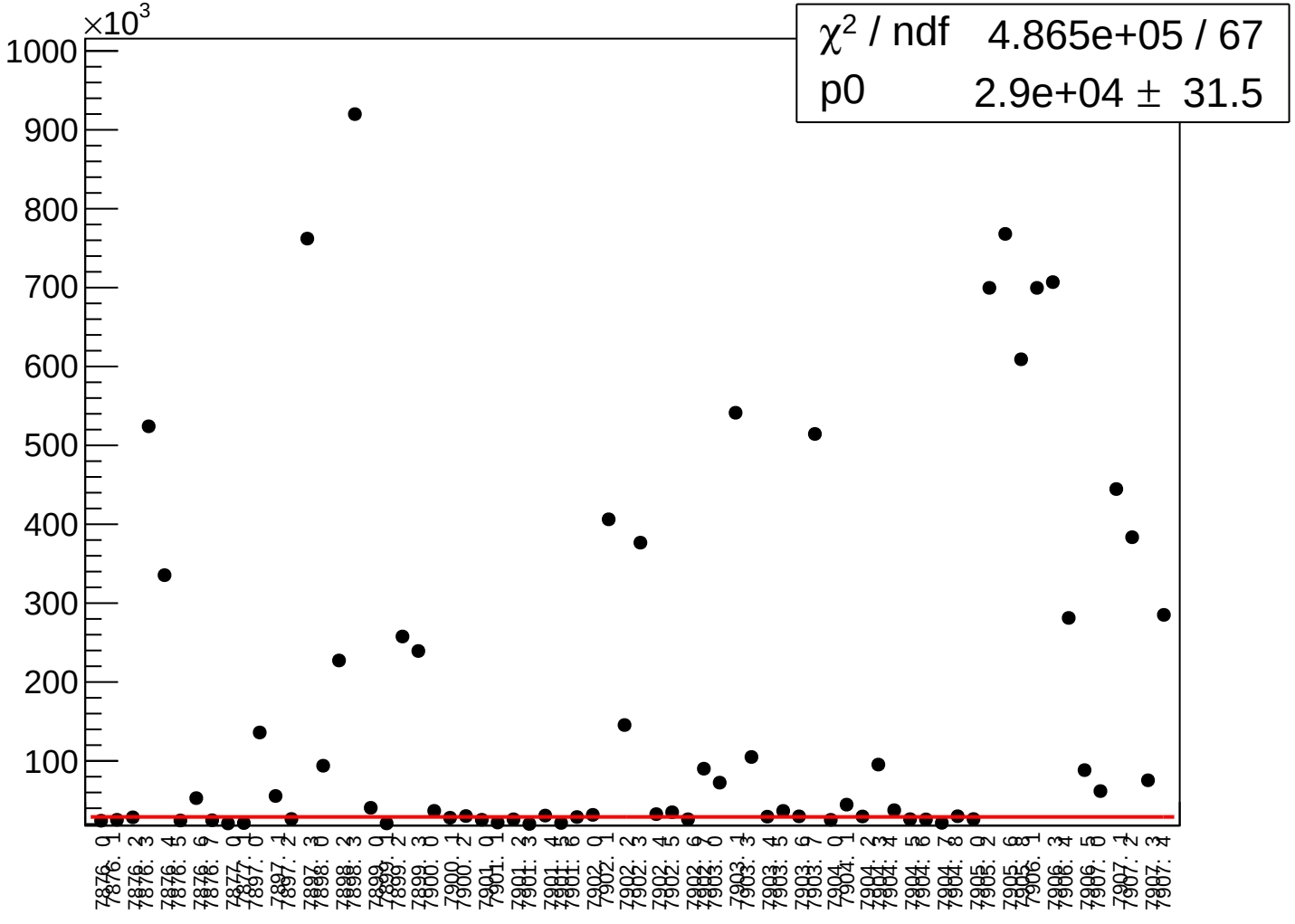

reg_asym_ds_dd_rms vs run
×10^3
χ² / ndf 4.865e+05 / 67
p0 2.899e+04 ± 31.49
1000
900
800
700
600
500
400
300
200
100

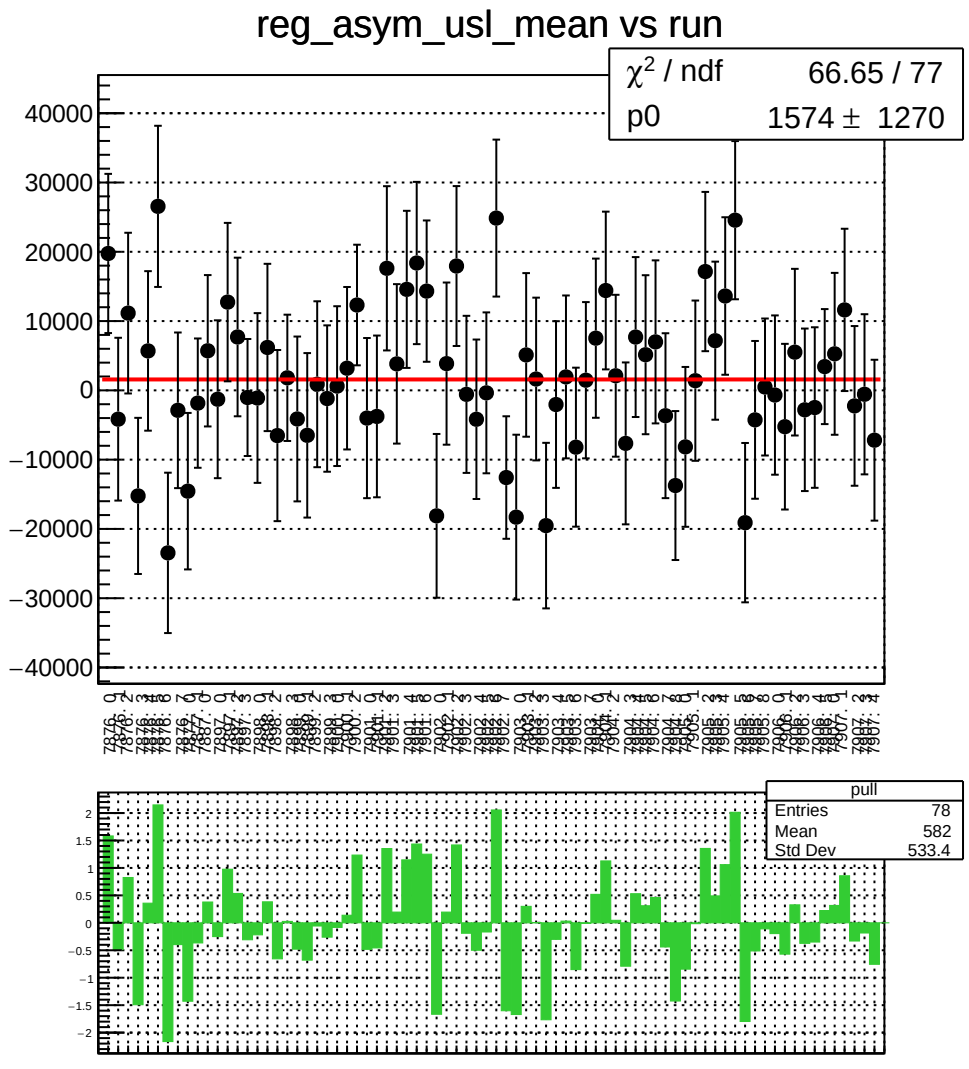

asym_ds_dd_correction_mean vs run
χ² / ndf 74.78 / 74
p0 −1166 ± 923.8
×10³
1000
500
0
−500
−1000
pull
Entries 75
Mean −261.6
Std Dev 296.5
2
1
0
−1
−2
−3

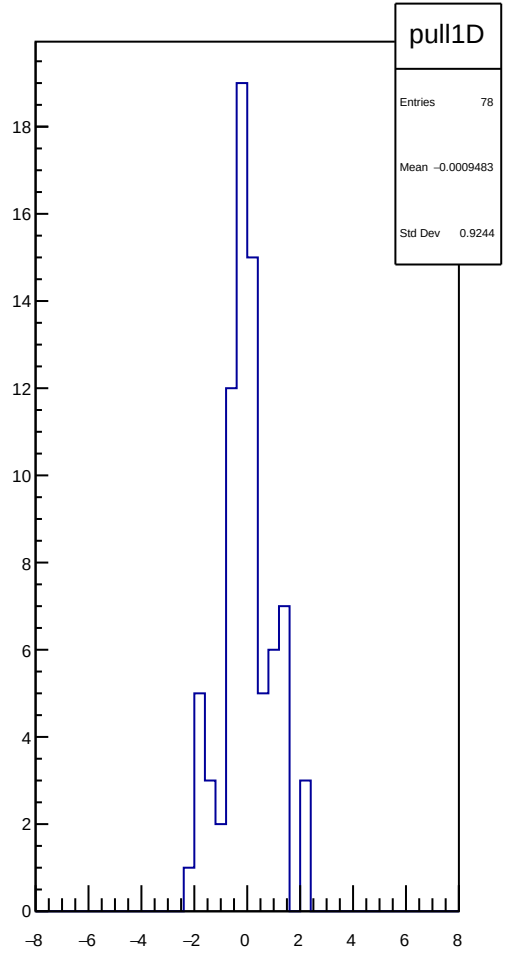

pull1D
Entries 75
Mean −0.01073
Std Dev 0.9985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

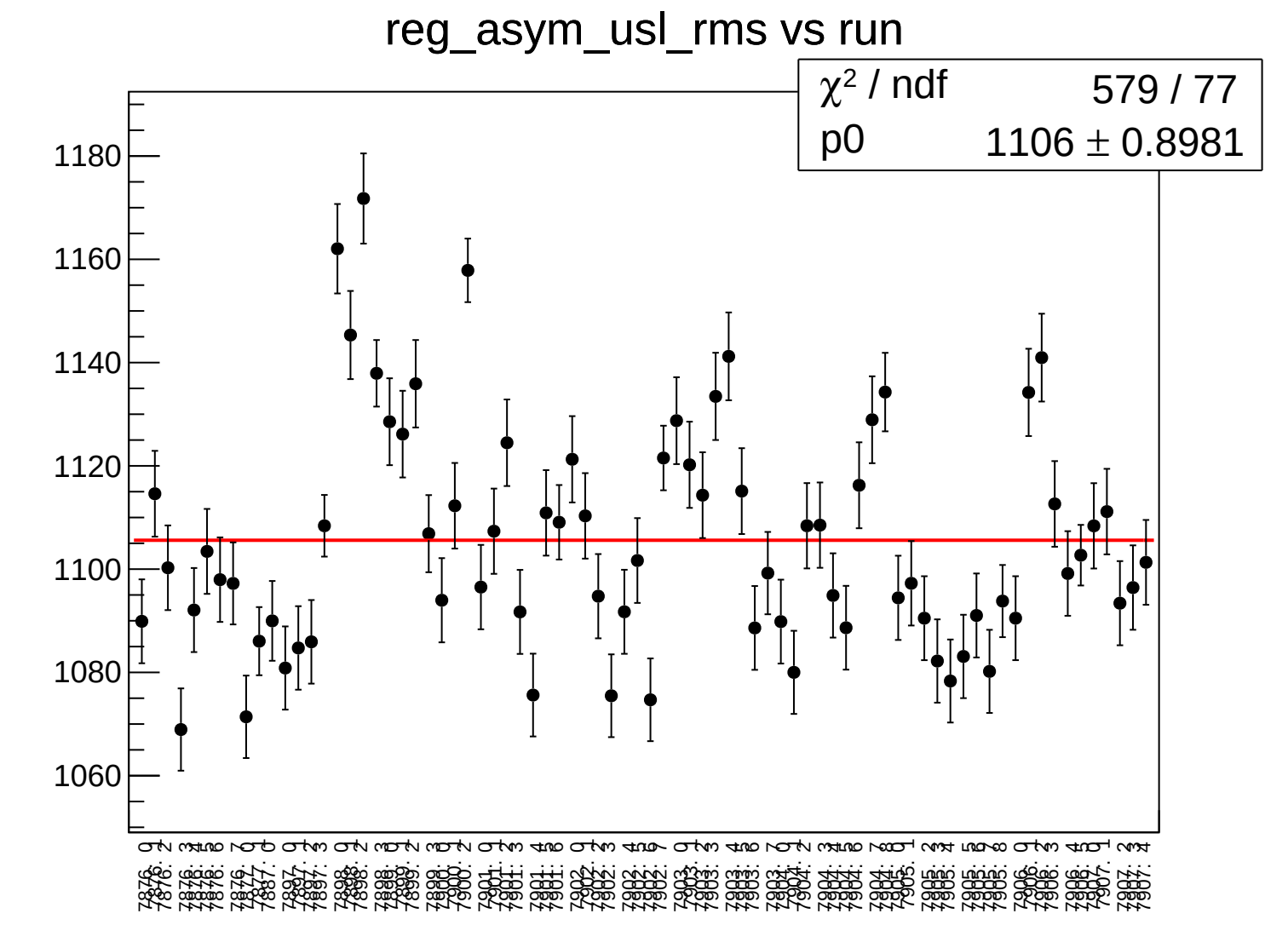

asym_ds_dd_correction_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 7.573e+05 / 77
p0 569 ± 0.6533

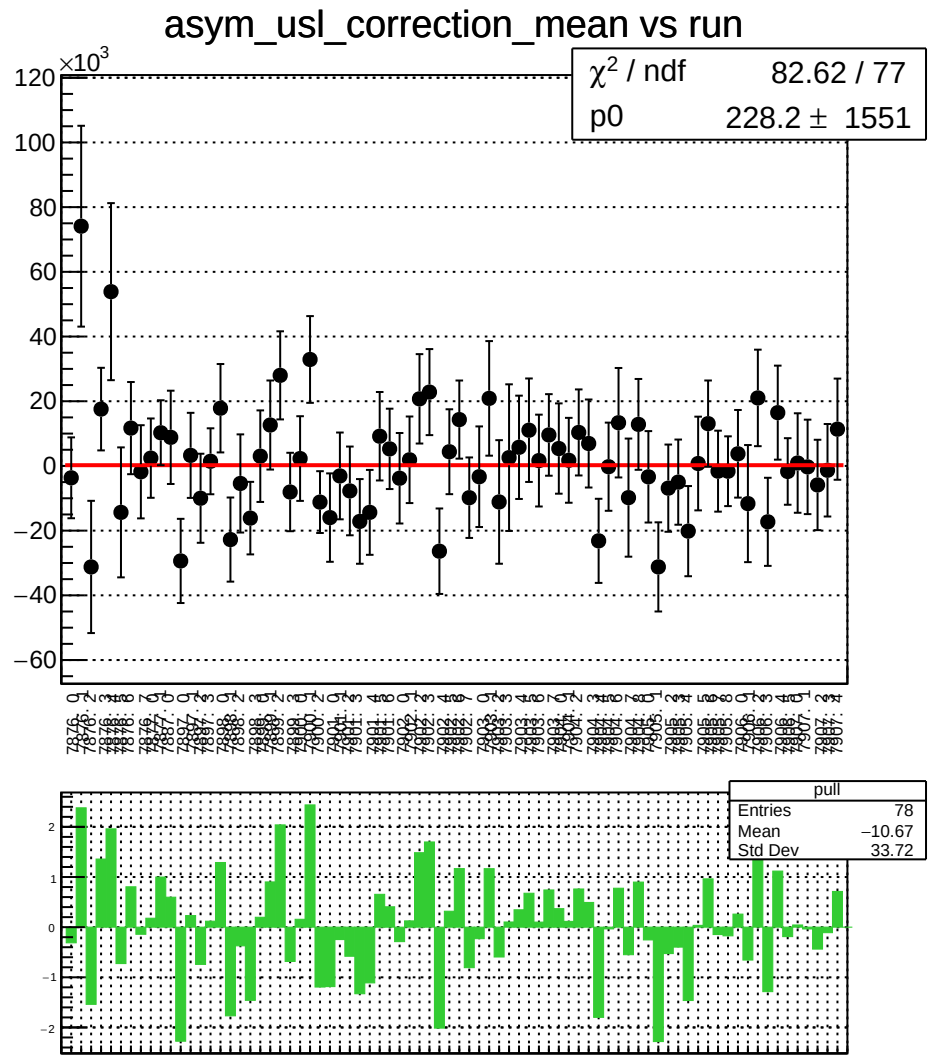

asym_ds_dd_mean vs run
×10^3
χ² / ndf 27.98 / 43
p0 6.13e+04 ± 4.472e+04
1500
1000
500
0
−500
−1000
−1500
−2000
7876. 0
7876. 1
7876. 2
7876. 5
7876. 6
7876. 7
7877. 0
7877. 1
7897. 1
7897. 2
7898. 0
7899. 0
7899. 1
7900. 0
7900. 1
7900. 2
7901. 0
7901. 1
7901. 2
7901. 3
7901. 4
7901. 5
7901. 6
7902. 0
7902. 4
7902. 5
7902. 6
7902. 7
7903. 0
7903. 4
7903. 5
7903. 6
7904. 0
7904. 1
7904. 2
7904. 4
7904. 5
7904. 6
7904. 7
7904. 8
7905. 0
7906. 5
7907. 0
7907. 3
pull
Entries 44
Mean 69.57
Std Dev 35.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean −0.01706
Std Dev 0.7973
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

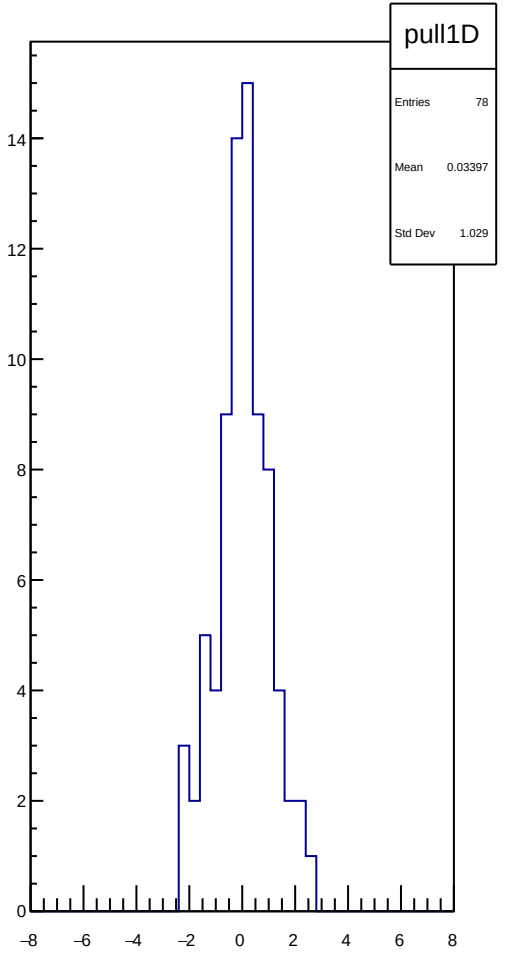

asym_ds_dd_rms vs run
×10^3
χ² / ndf 4.865e+05 / 67
p0 2.9e+04 ± 31.5
1000
900
800
700
600
500
400
300
200
100

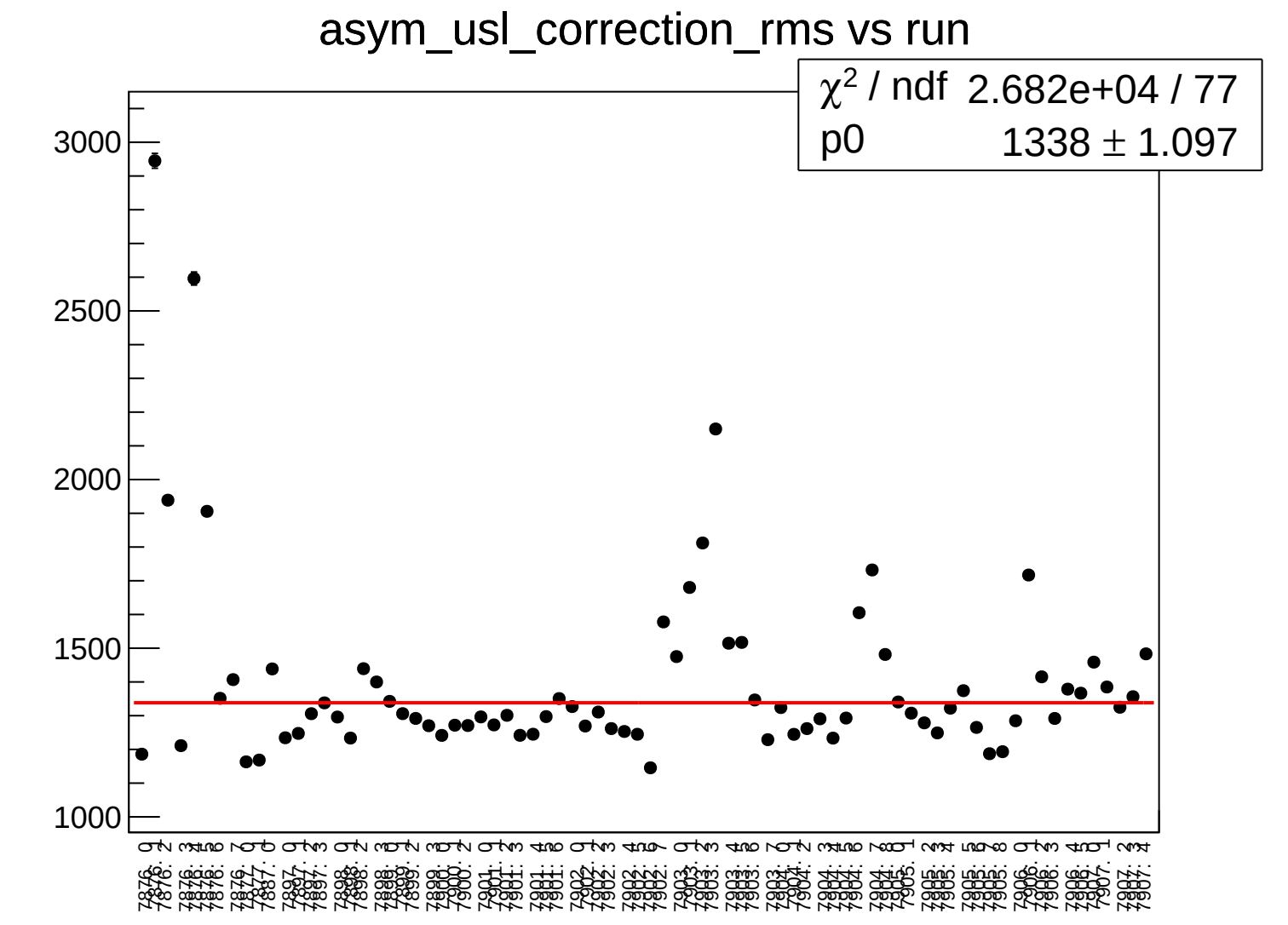

reg_asym_usl_mean vs run
χ² / ndf 66.65 / 77
p0 1574 ± 1270
pull
Entries 78
Mean 582
Std Dev 533.4

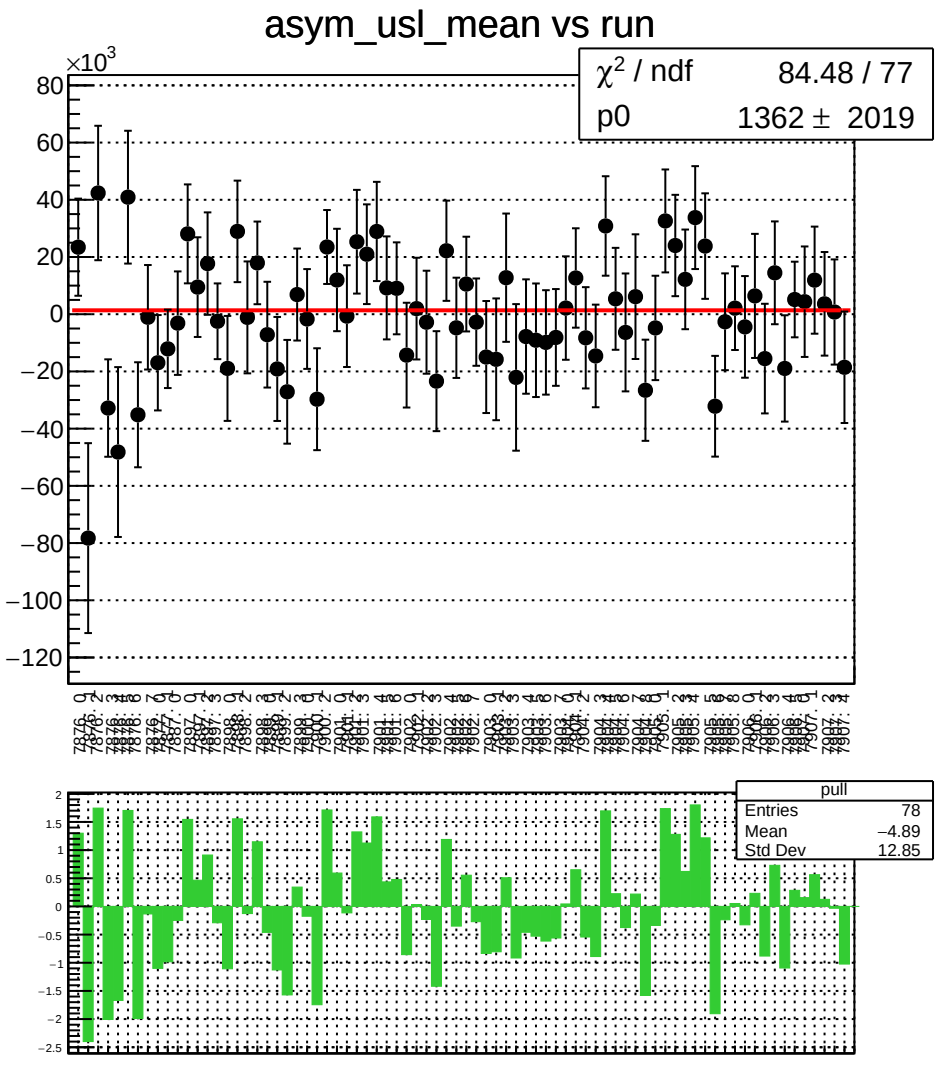

pull1D
Entries 78
Mean −0.0009483
Std Dev 0.9244

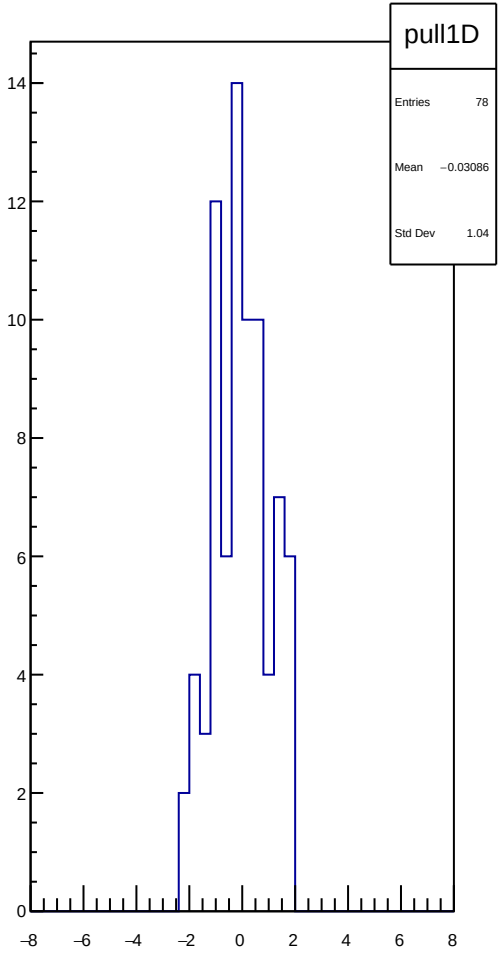

reg_asym_usl_rms vs run
χ² / ndf 579 / 77
p0 1106 ± 0.8981
1180
1160
1140
1120
1100
1080
1060

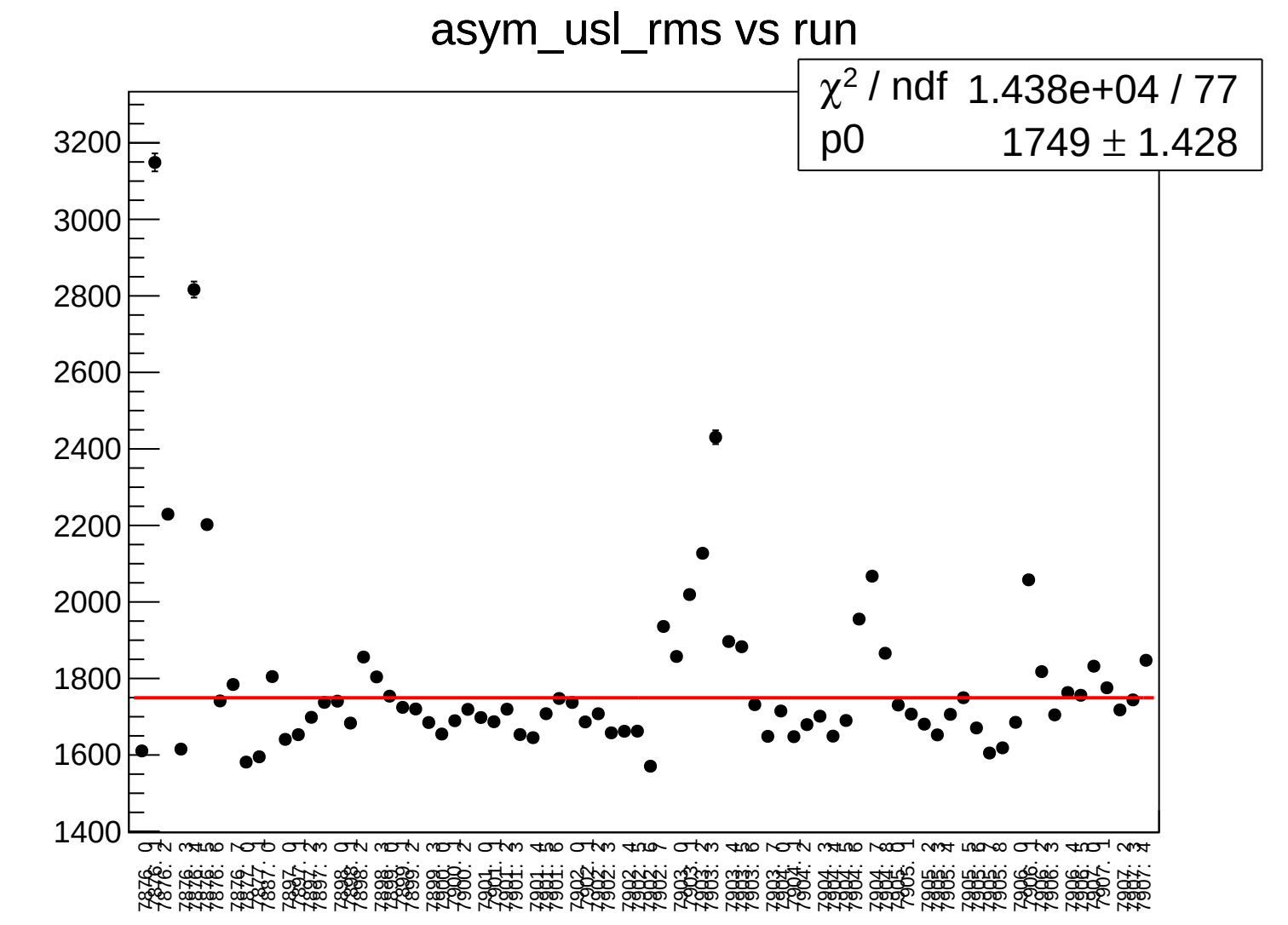

asym_usl_correction_mean vs run
χ^2 / ndf 82.62 / 77
p0 228.2 ± 1551
×10^3
pull
Entries 78
Mean −10.67
Std Dev 33.72

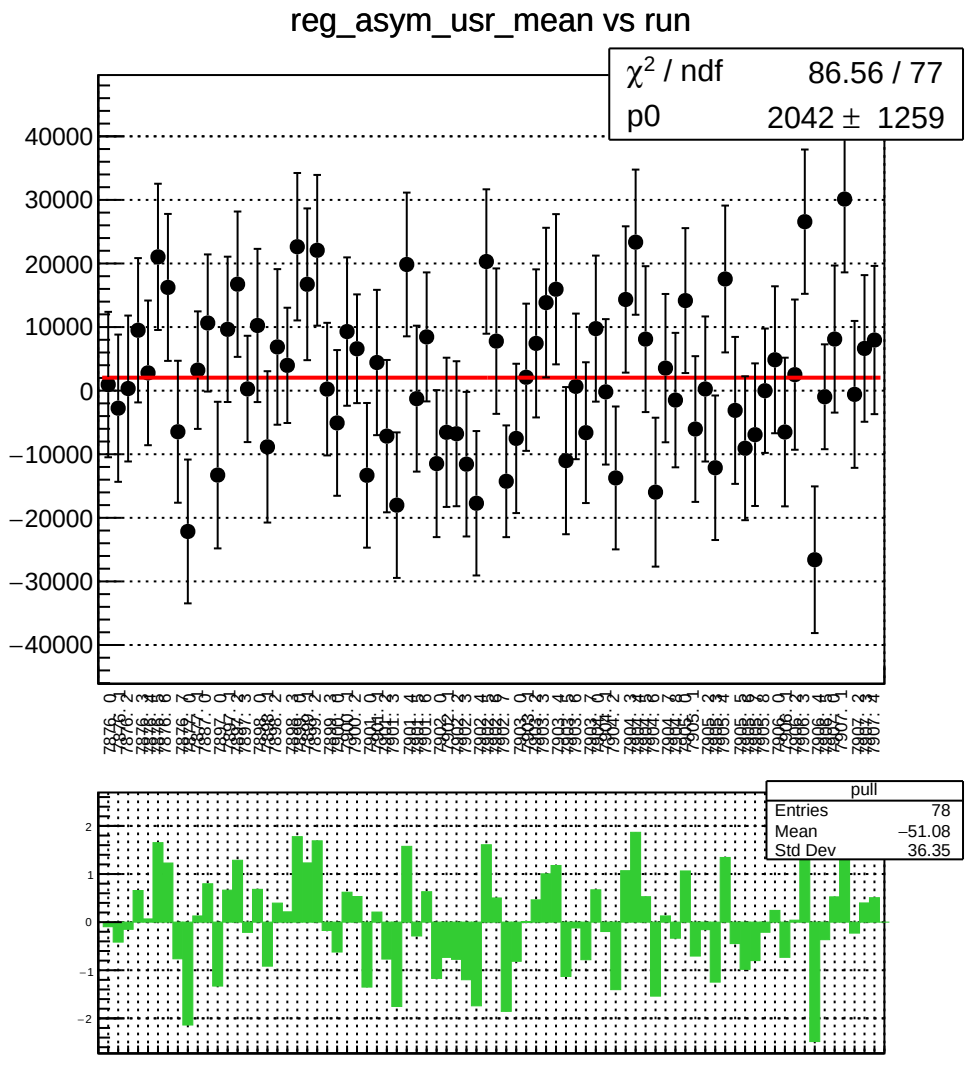

pull1D
Entries 78
Mean 0.03397
Std Dev 1.029

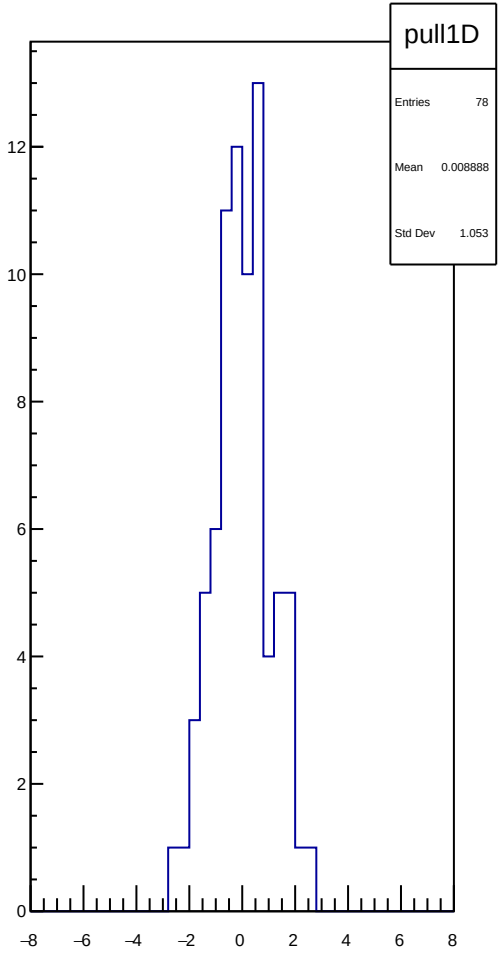

asym_usl_correction_rms vs run
χ² / ndf 2.682e+04 / 77
p0 1338 ± 1.097
3000
2500
2000
1500
1000

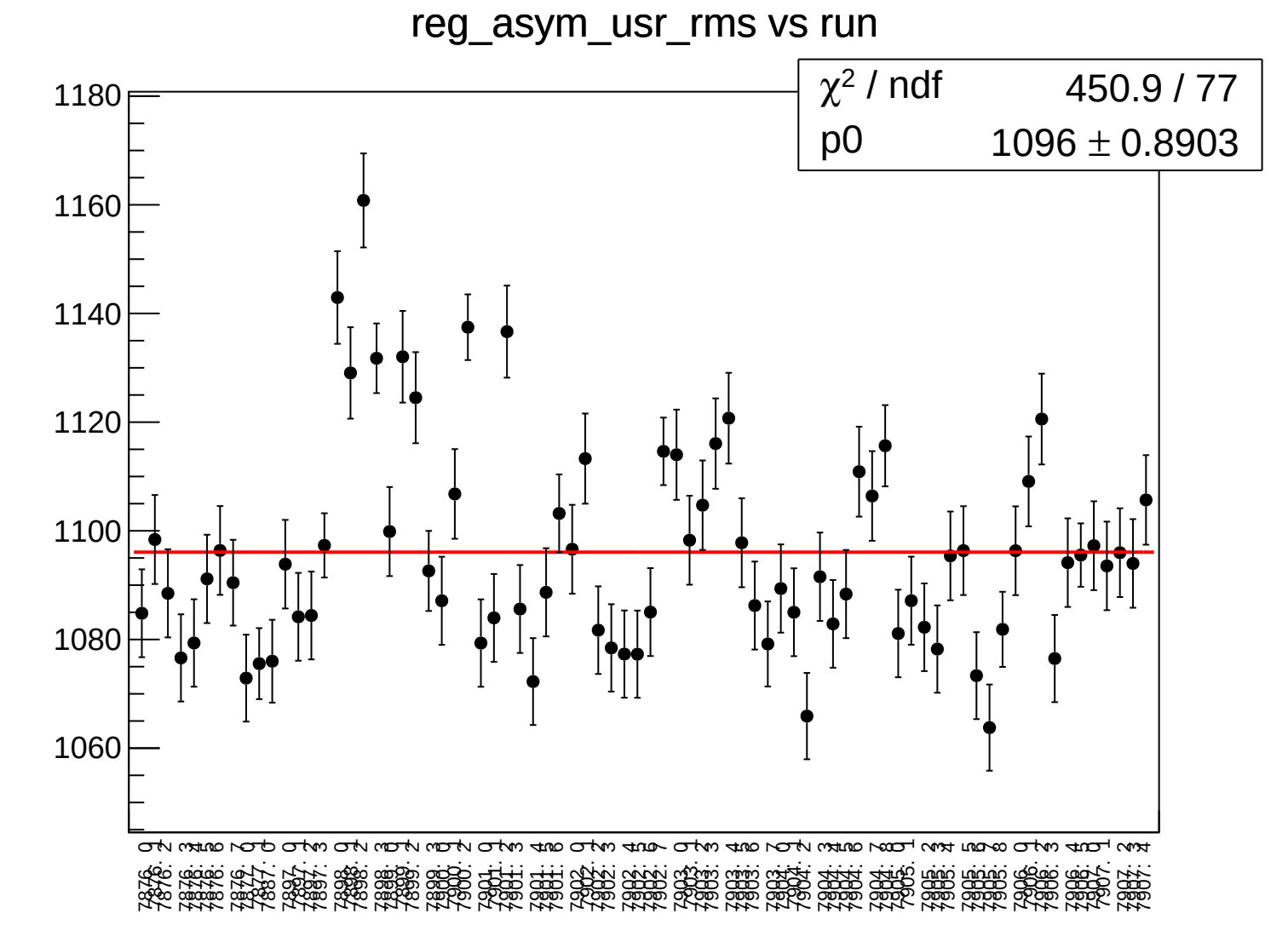

asym_usl_mean vs run
×10^3
χ² / ndf 84.48 / 77
p0 1362 ± 2019
pull
Entries 78
Mean −4.89
Std Dev 12.85

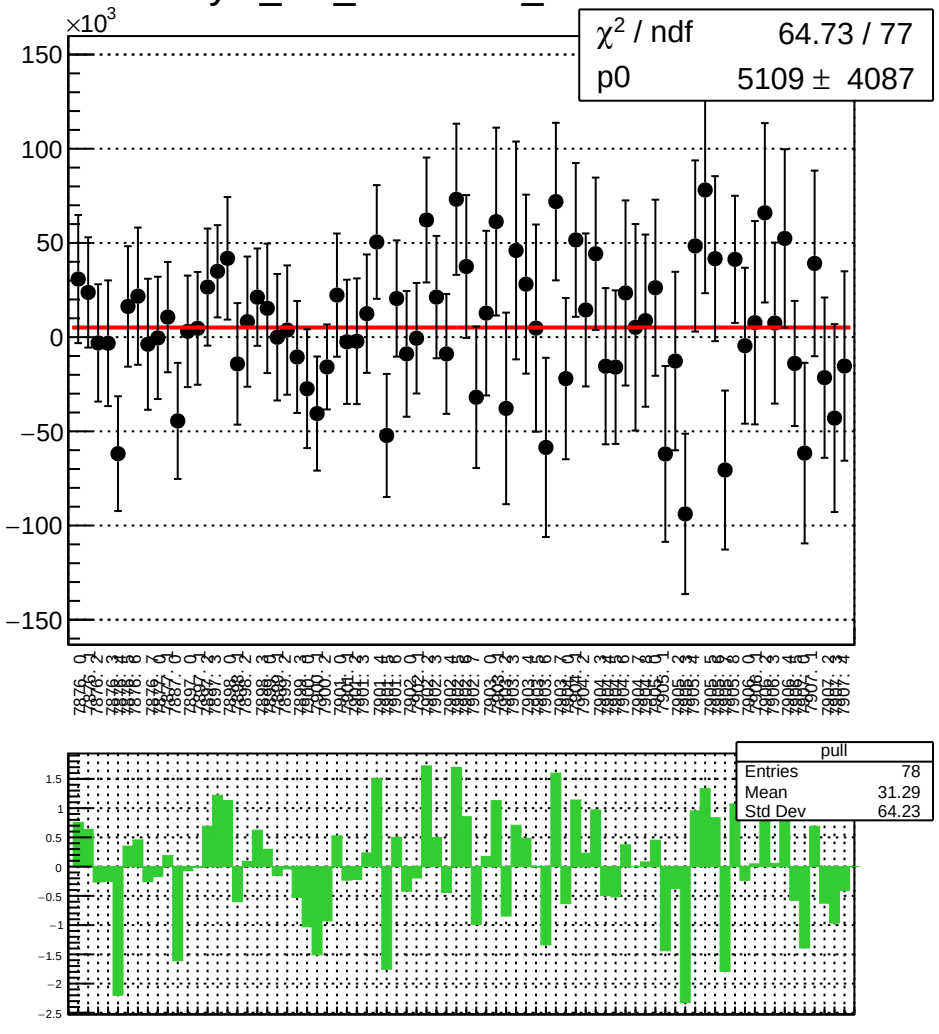

pull1D
Entries 78
Mean −0.03086
Std Dev 1.04

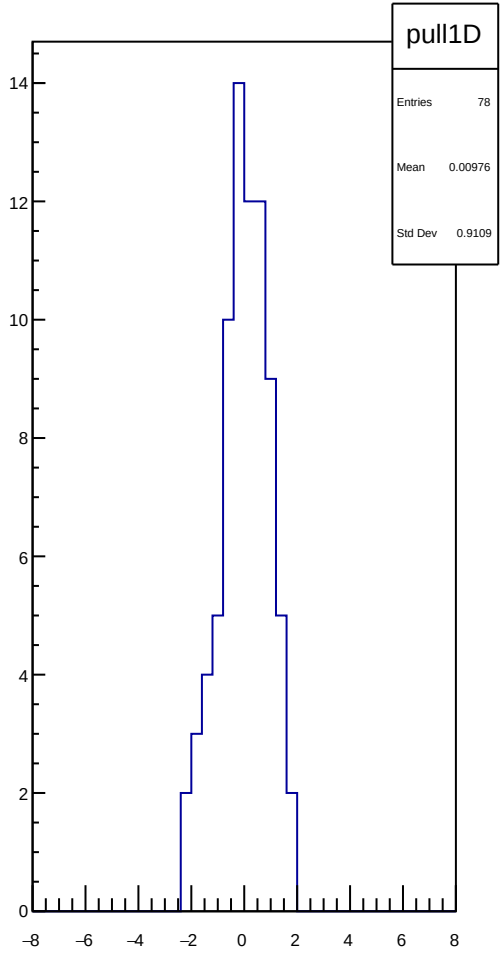

asym_usl_rms vs run
χ² / ndf 1.438e+04 / 77
p0 1749 ± 1.428
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

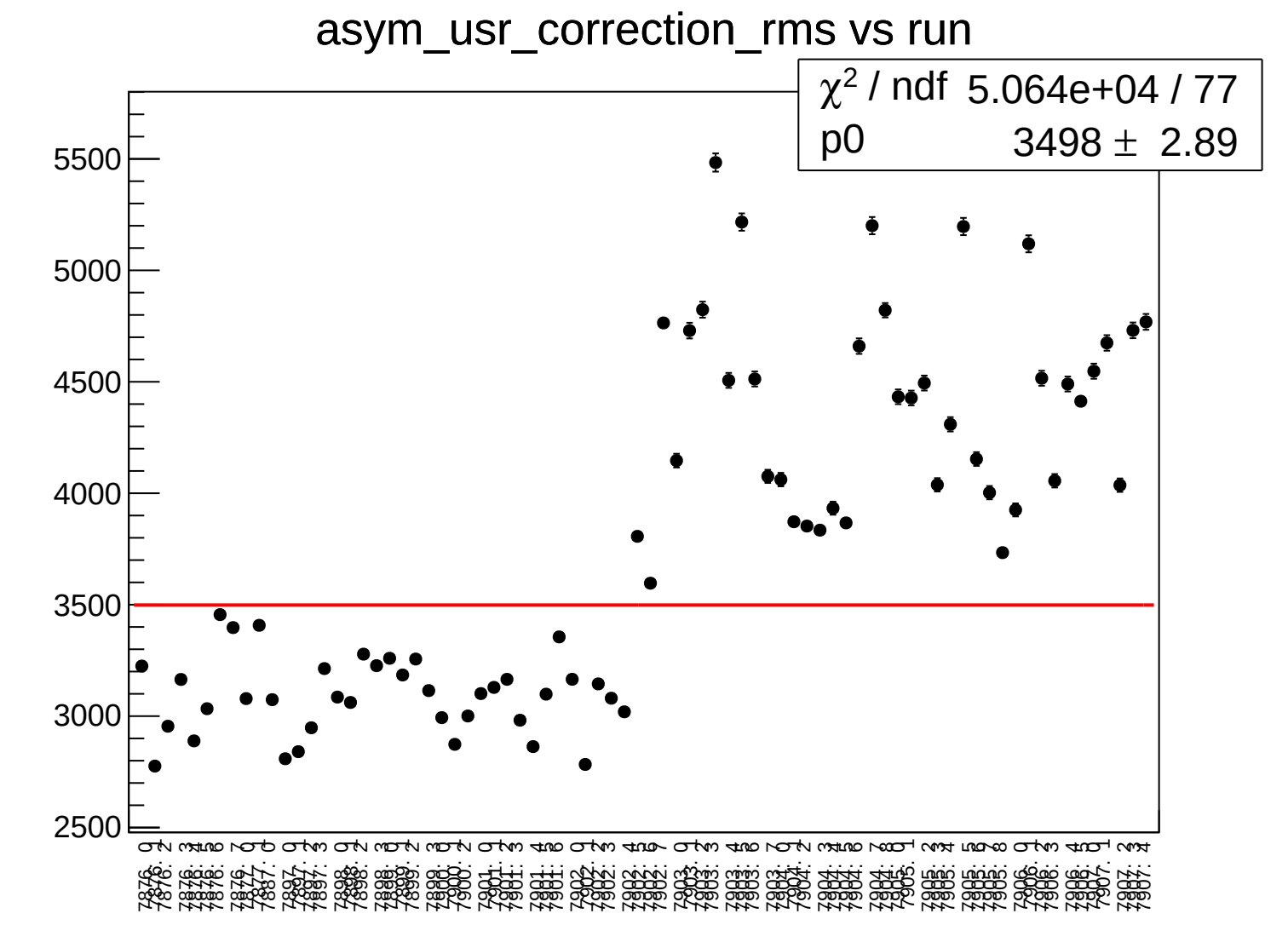

reg_asym_usr_mean vs run
χ² / ndf 86.56 / 77
p0 2042 ± 1259
pull
Entries 78
Mean −51.08
Std Dev 36.35

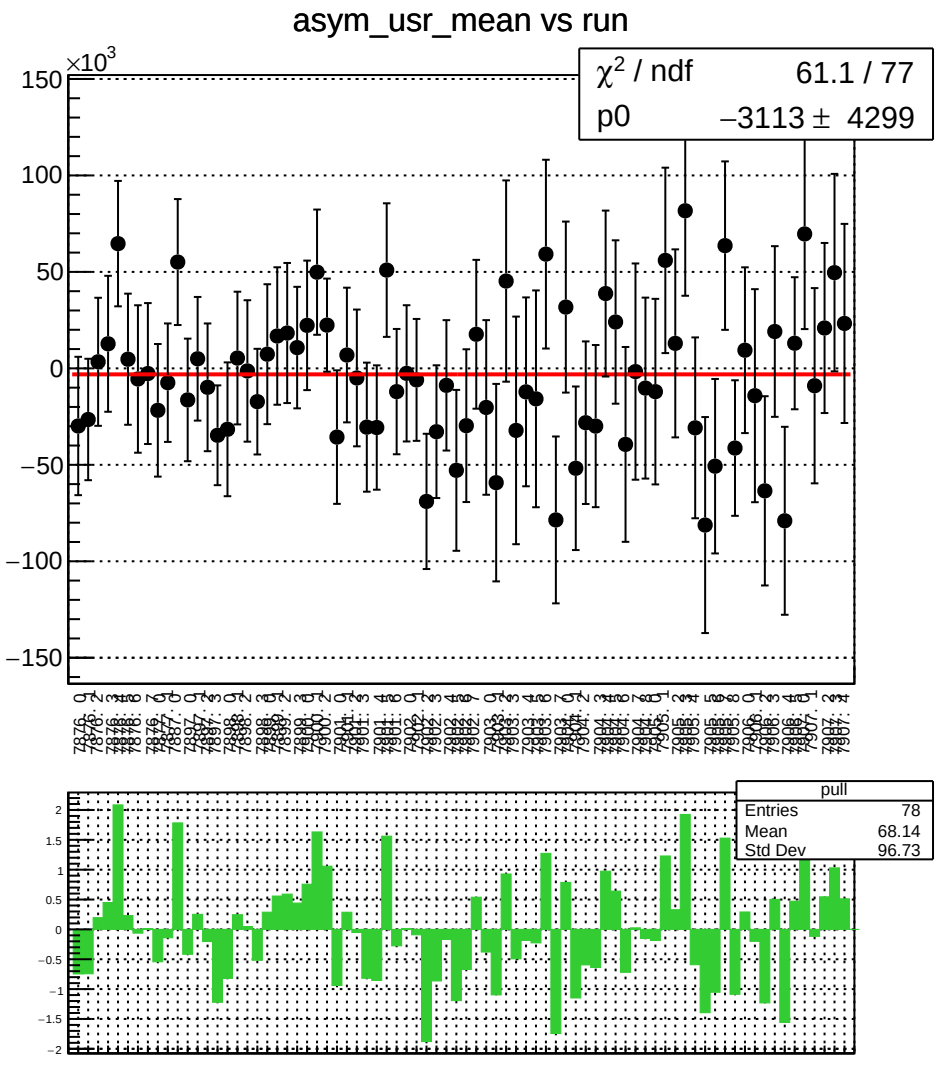

pull1D
Entries 78
Mean 0.008888
Std Dev 1.053

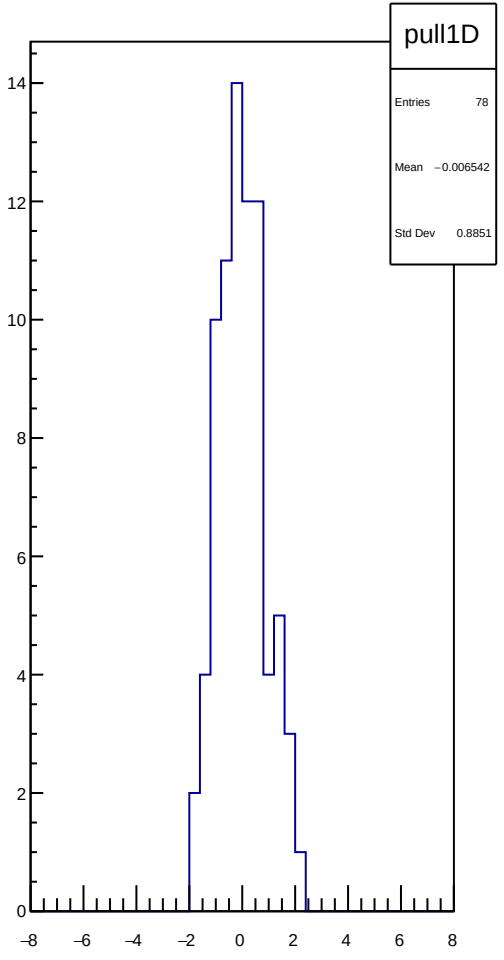

reg_asym_usr_rms vs run
χ² / ndf 450.9 / 77
p0 1096 ± 0.8903
1180
1160
1140
1120
1100
1080
1060

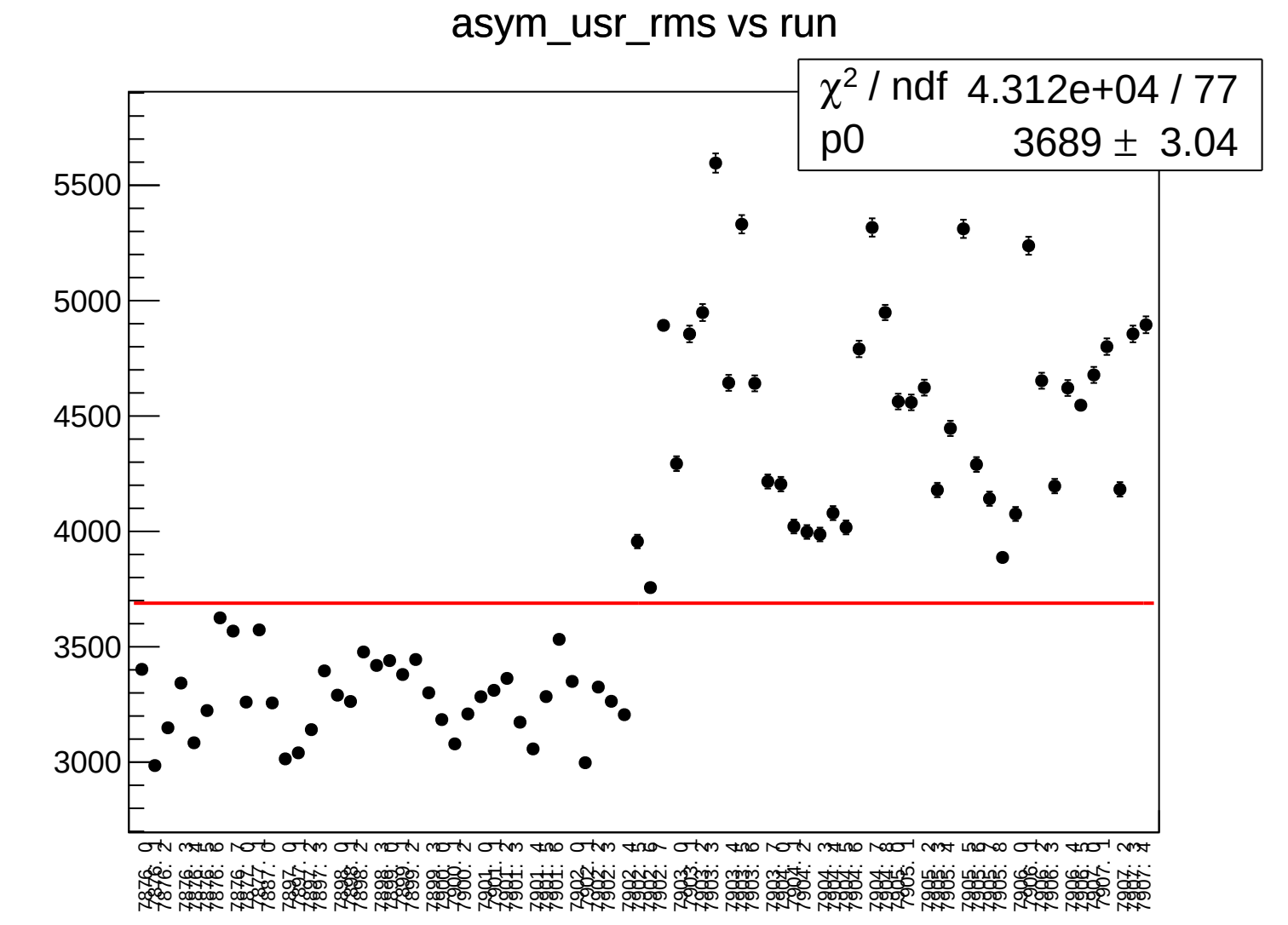

asym_usr_correction_mean vs run
×10^3
χ² / ndf 64.73 / 77
p0 5109 ± 4087
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 31.29
Std Dev 64.23
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

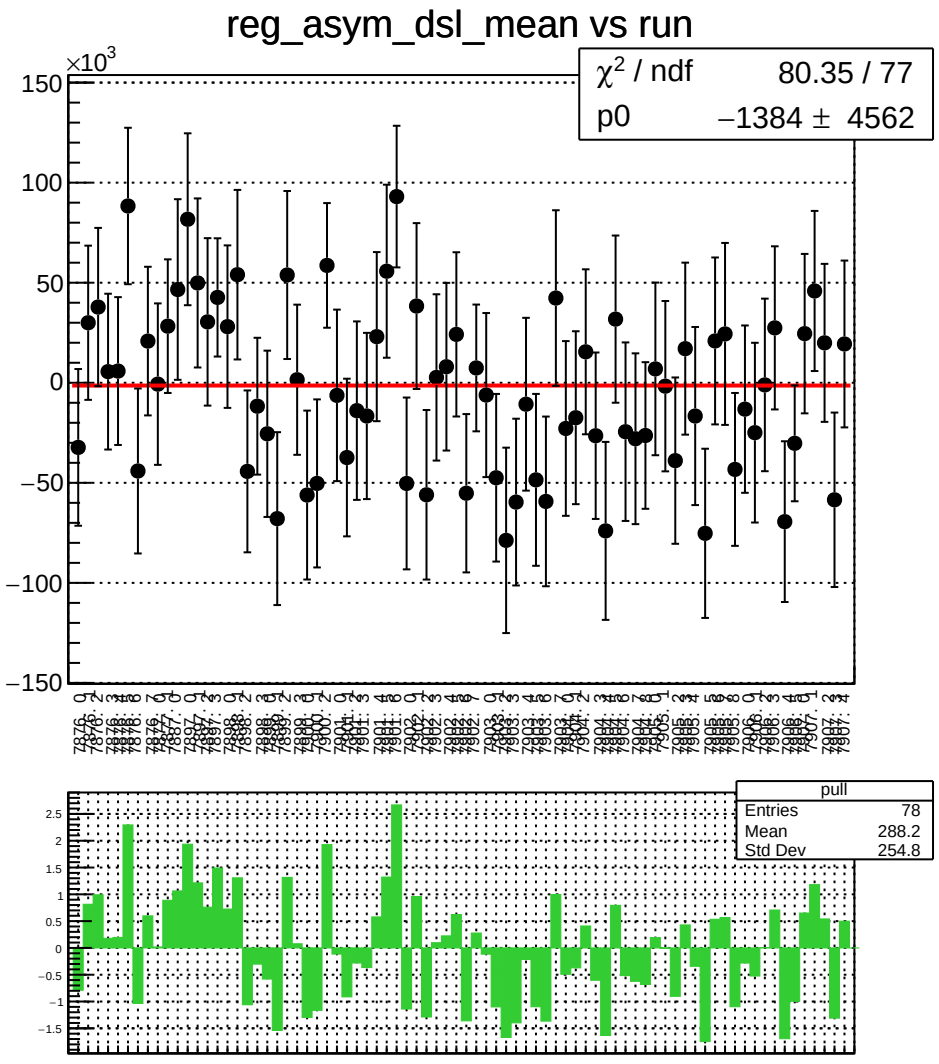

pull1D
Entries 78
Mean 0.00976
Std Dev 0.9109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

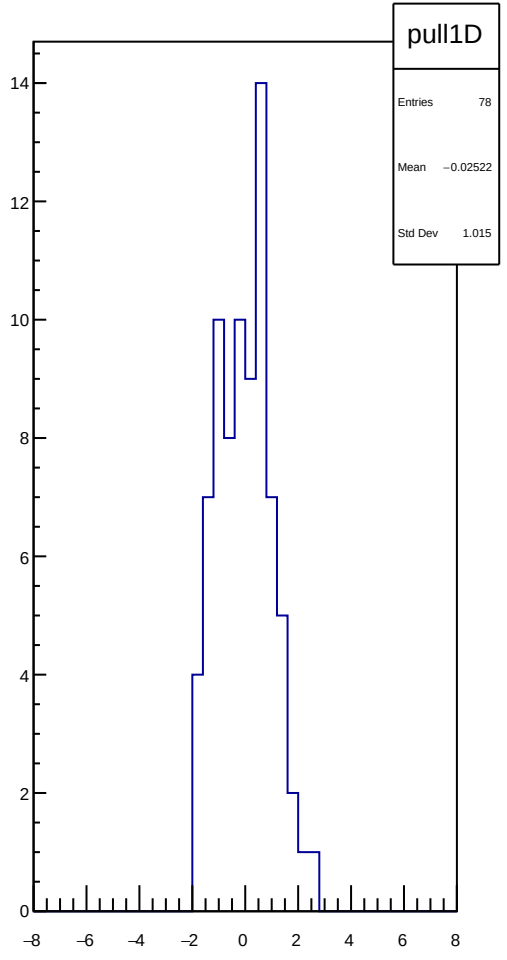

asym_usr_correction_rms vs run
χ² / ndf 5.064e+04 / 77
p0 3498 ± 2.89
5500
5000
4500
4000
3500
3000
2500

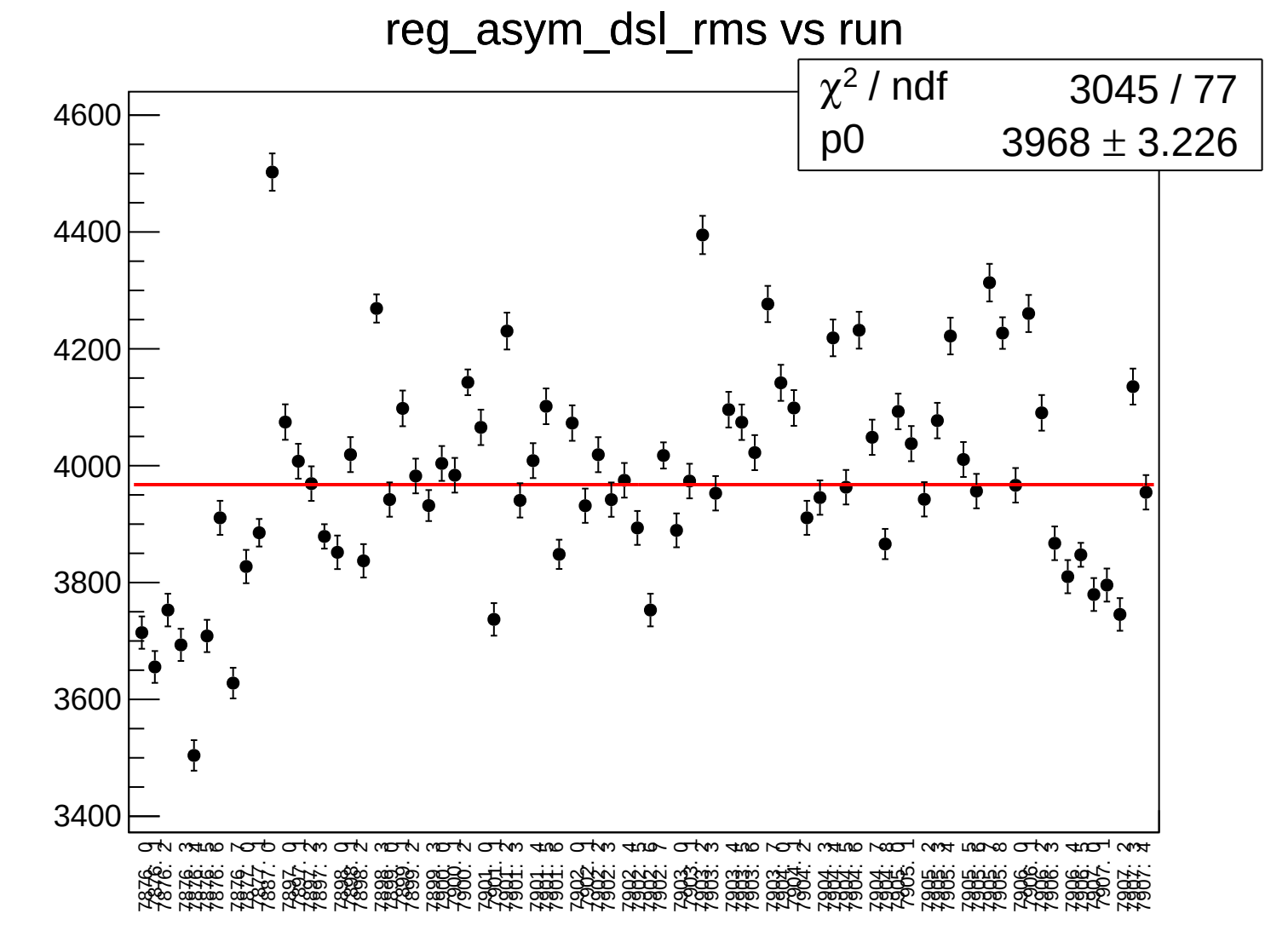

asym_usr_mean vs run
χ^2 / ndf 61.1 / 77
p0 −3113 ± 4299
×10^3
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 68.14
Std Dev 96.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

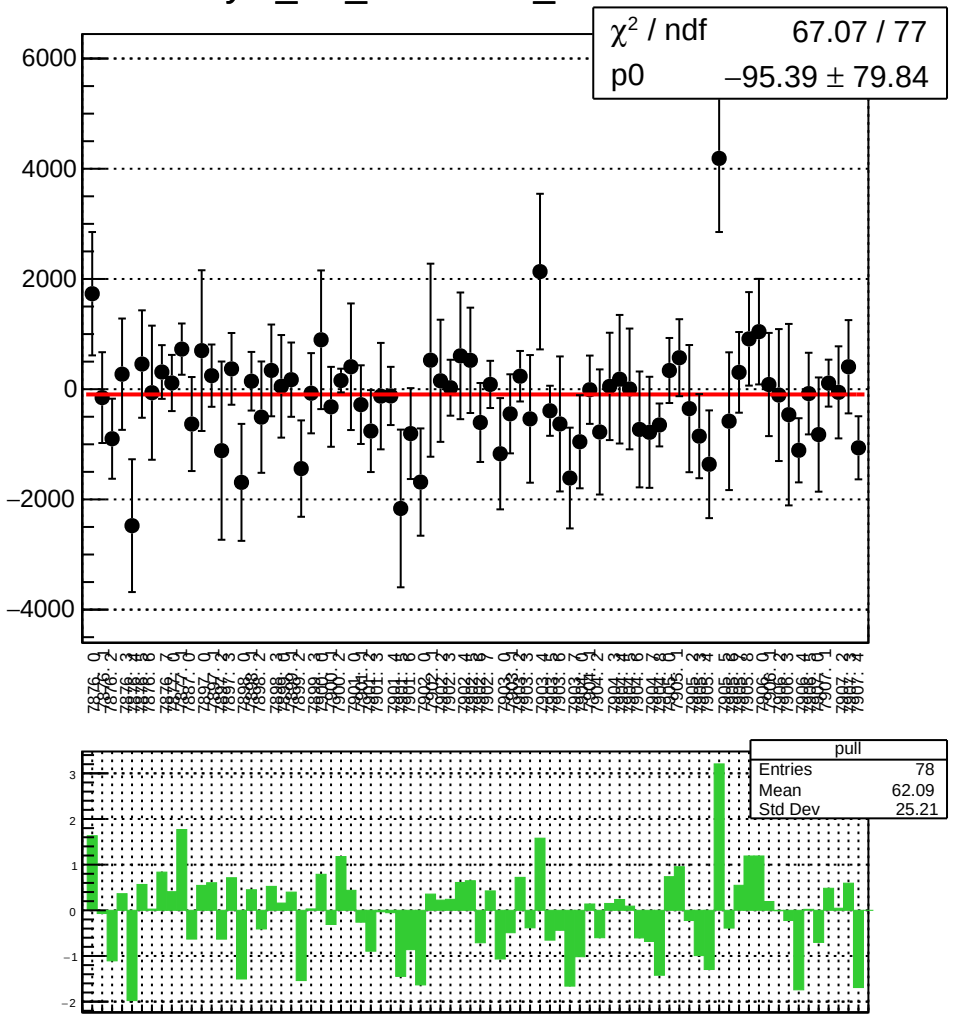

pull1D
Entries 78
Mean −0.006542
Std Dev 0.8851
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

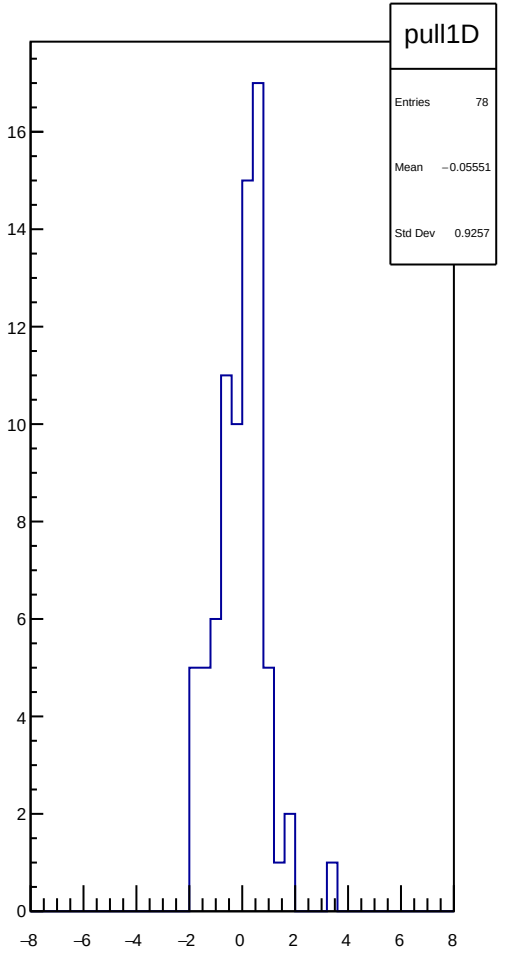

asym_usr_rms vs run
χ² / ndf 4.312e+04 / 77
p0 3689 ± 3.04
5500
5000
4500
4000
3500
3000

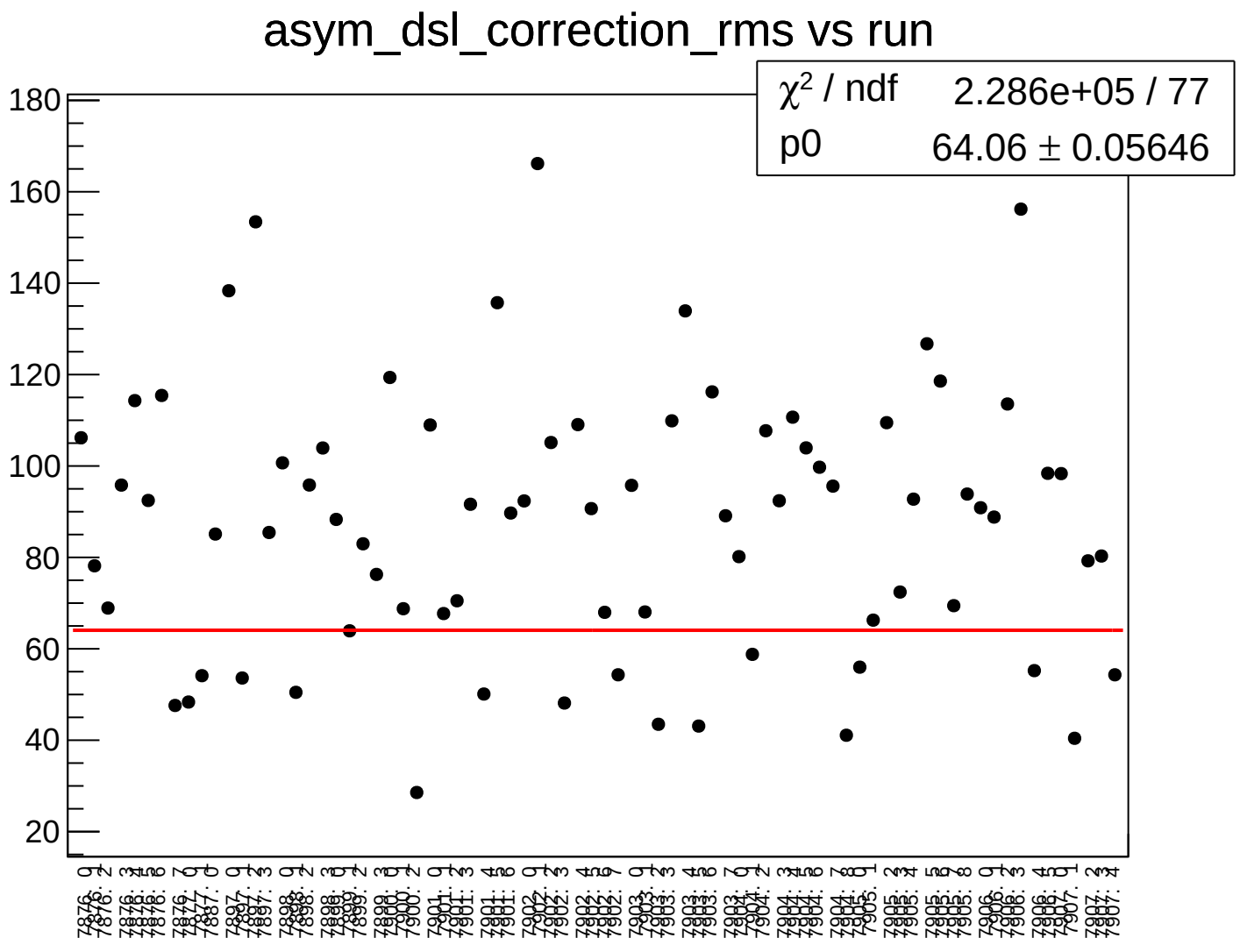

reg_asym_dsl_mean vs run
χ² / ndf 80.35 / 77
p0 −1384 ± 4562
×10³
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 288.2
Std Dev 254.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

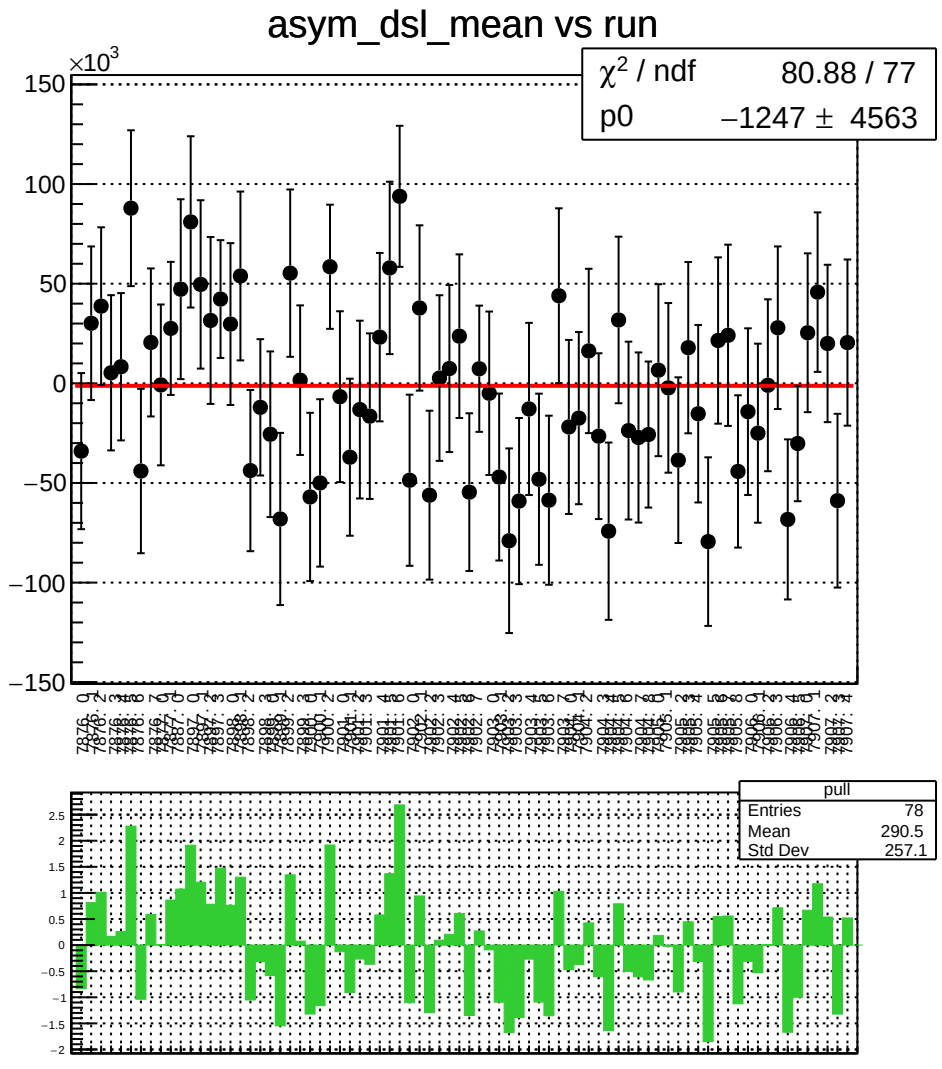

pull1D
Entries 78
Mean −0.02522
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

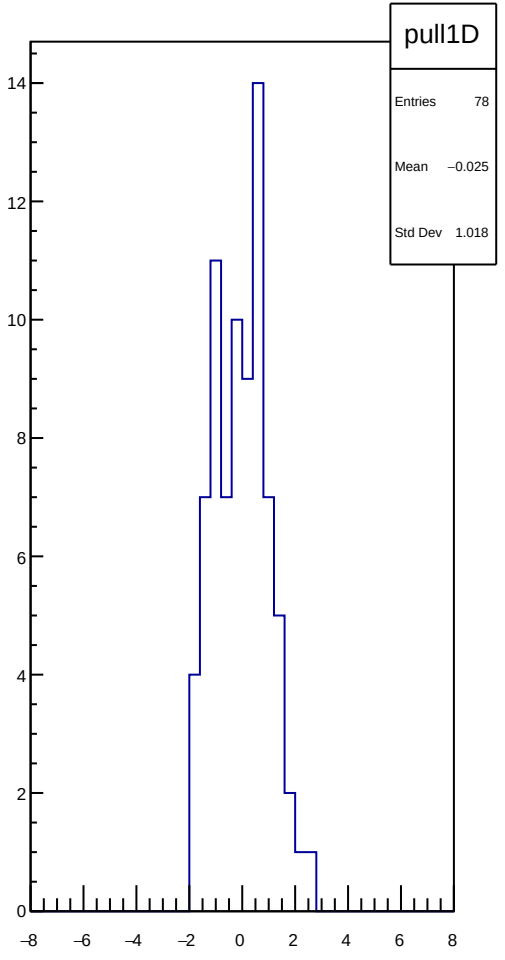

reg_asym_dsl_rms vs run
χ² / ndf 3045 / 77
p0 3968 ± 3.226
4600
4400
4200
4000
3800
3600
3400

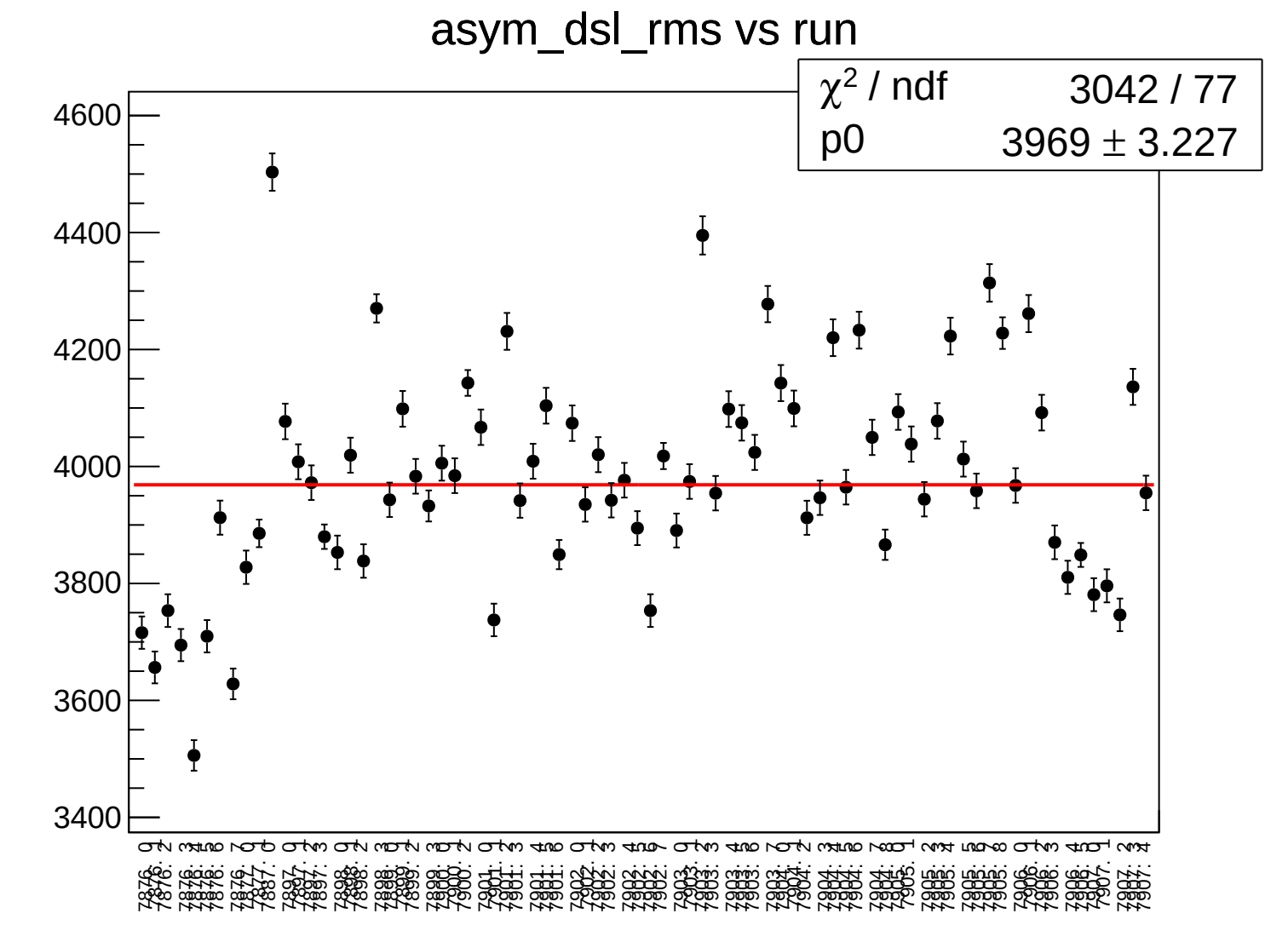

asym_dsl_correction_mean vs run
χ² / ndf 67.07 / 77
p0 −95.39 ± 79.84
pull
Entries 78
Mean 62.09
Std Dev 25.21

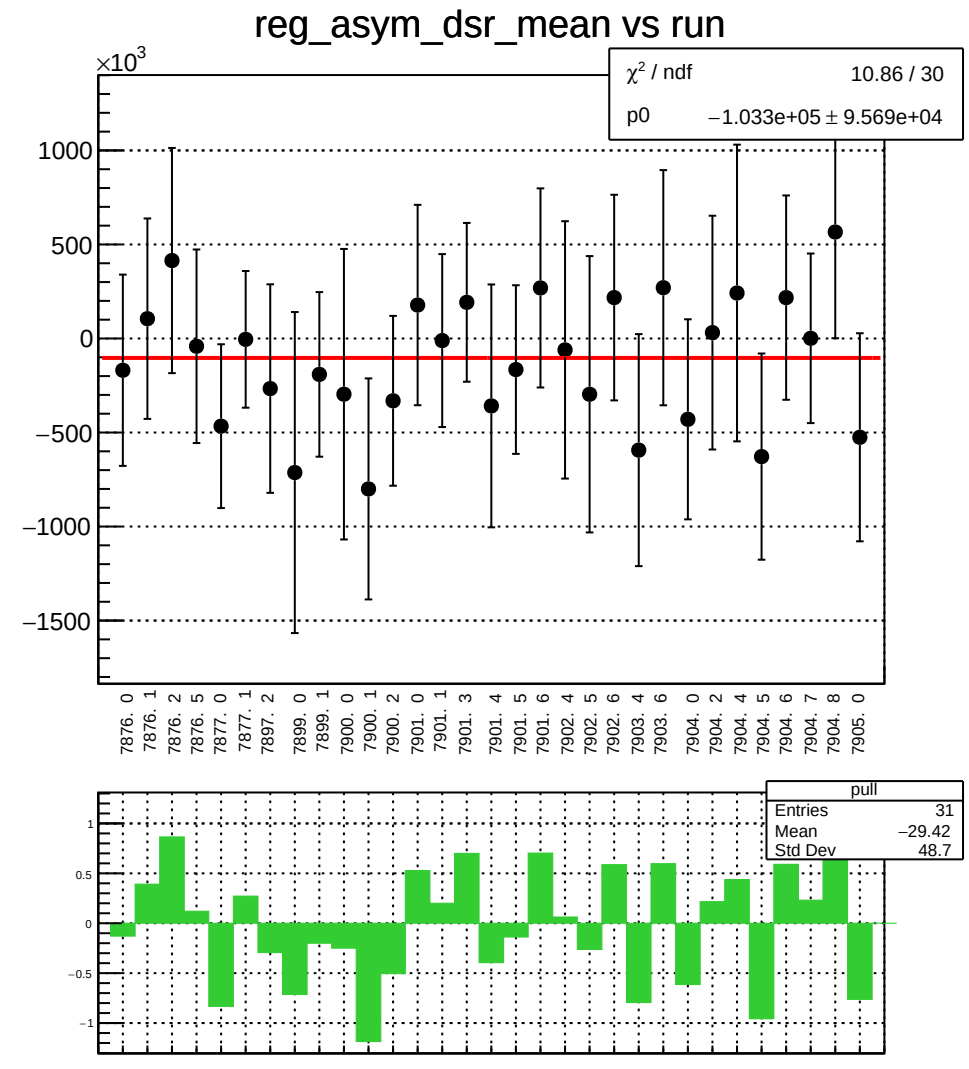

pull1D
Entries 78
Mean −0.05551
Std Dev 0.9257

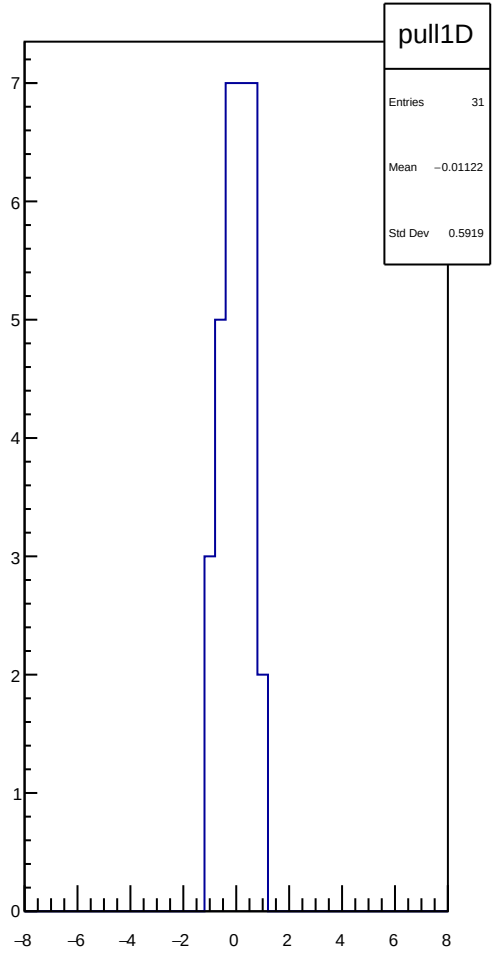

asym_dsl_correction_rms vs run
χ² / ndf 2.286e+05 / 77
p0 64.06 ± 0.05646
180
160
140
120
100
80
60
40
20

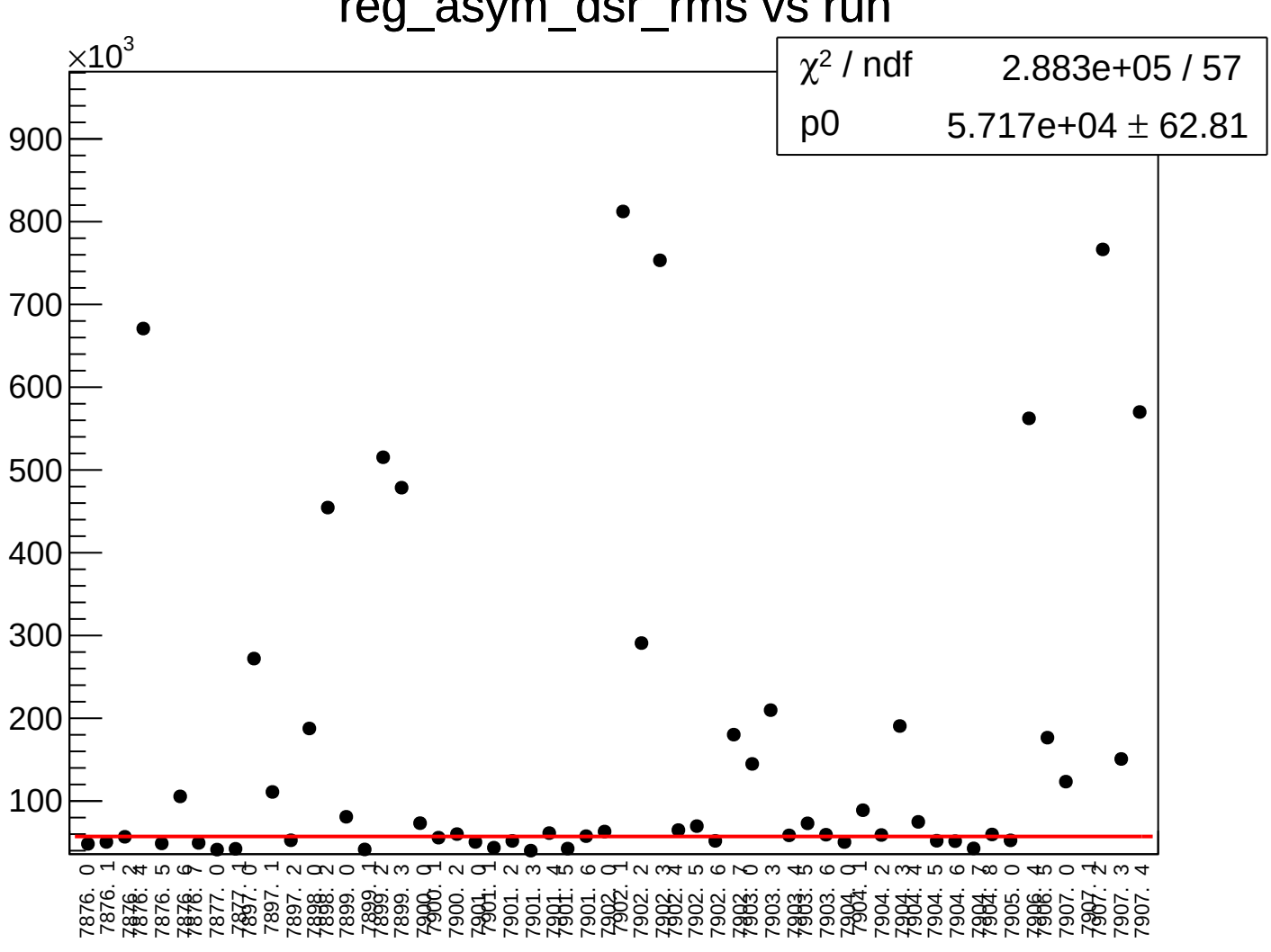

asym_dsl_mean vs run
×10^3
χ² / ndf 80.88 / 77
p0 −1247 ± 4563
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 290.5
Std Dev 257.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

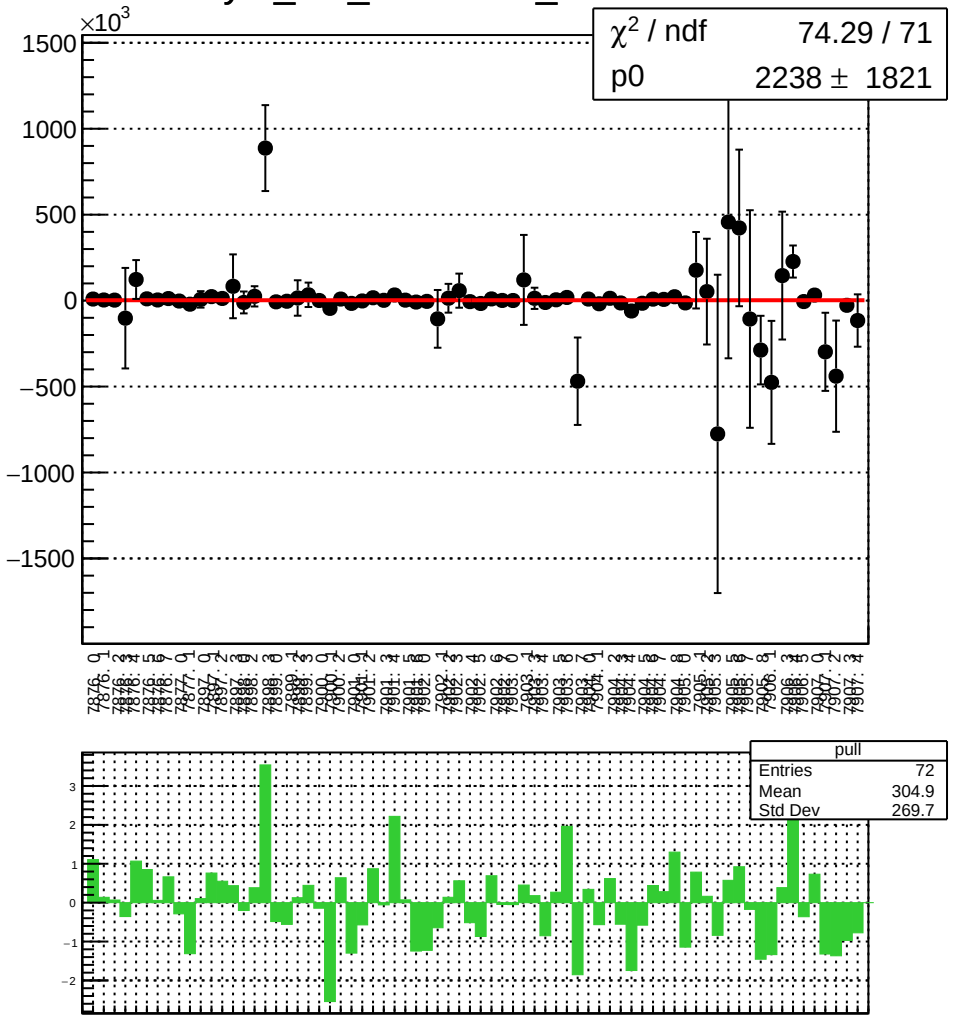

pull1D
Entries 78
Mean −0.025
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

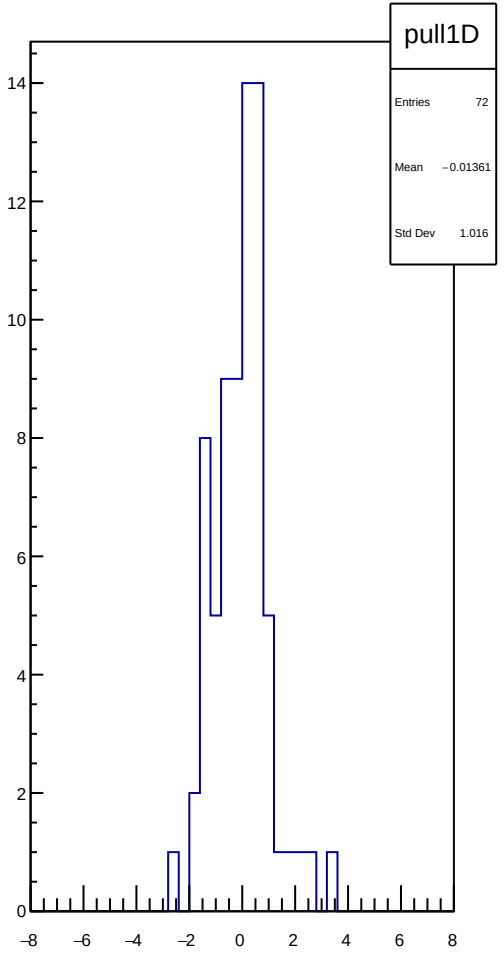

asym_dsl_rms vs run
χ² / ndf 3042 / 77
p0 3969 ± 3.227
4600
4400
4200
4000
3800
3600
3400

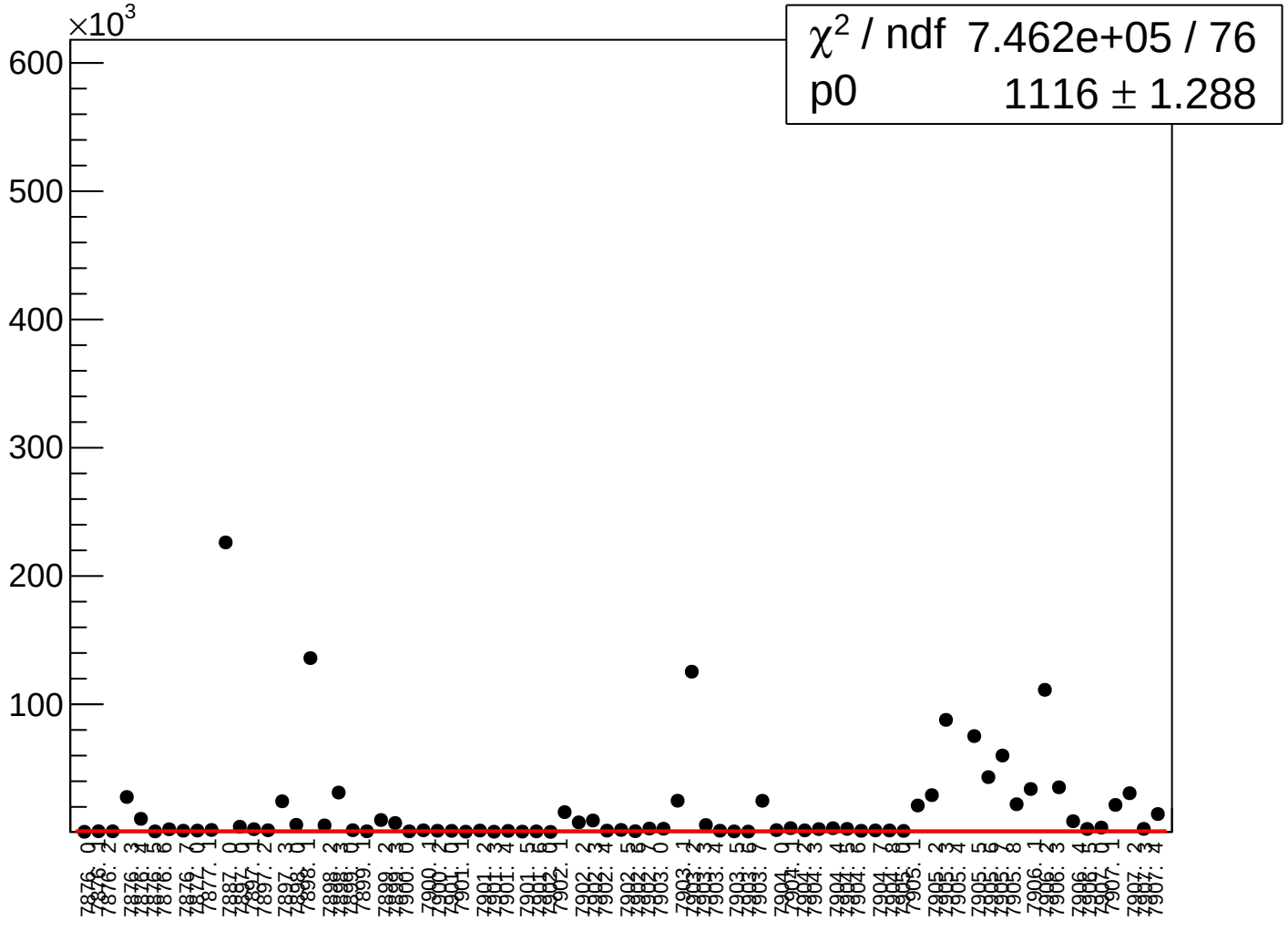

reg_asym_dsr_mean vs run
×10^3
χ² / ndf 10.86 / 30
p0 −1.033e+05 ± 9.569e+04
1000
500
0
−500
−1000
−1500
7876. 0
7876. 1
7876. 2
7876. 5
7877. 0
7877. 1
7897. 2
7899. 0
7899. 1
7900. 0
7900. 1
7900. 2
7901. 0
7901. 1
7901. 3
7901. 4
7901. 5
7901. 6
7902. 4
7902. 5
7902. 6
7903. 4
7903. 6
7904. 0
7904. 2
7904. 4
7904. 5
7904. 6
7904. 7
7904. 8
7905. 0
pull
Entries 31
Mean −29.42
Std Dev 48.7
1
0.5
0
−0.5
−1

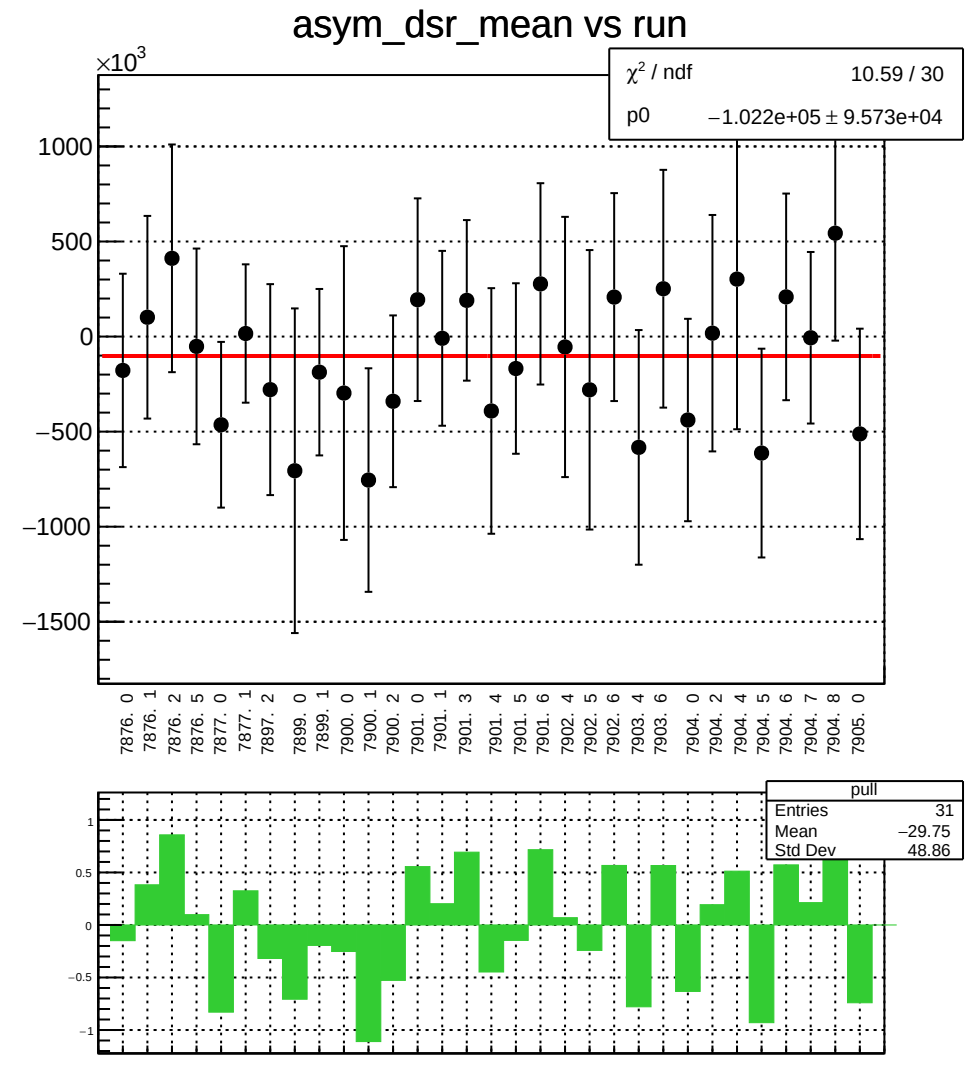

pull1D
Entries 31
Mean −0.01122
Std Dev 0.5919
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

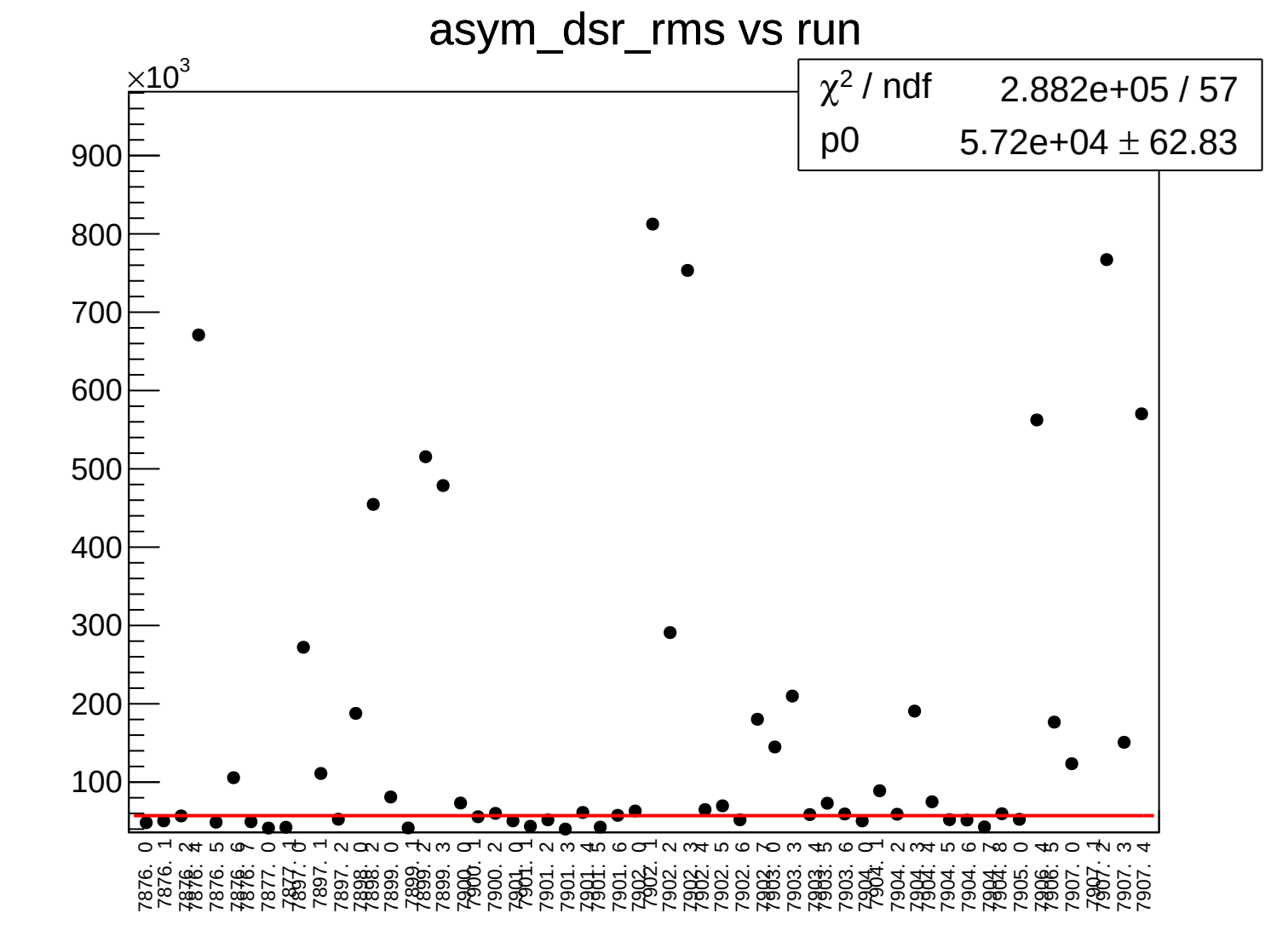

reg_asym_dsr_rms vs run
×10^3
χ^2 / ndf 2.883e+05 / 57
p0 5.717e+04 ± 62.81
900
800
700
600
500
400
300
200
100
7876. 0
7876. 1
7876. 2
7876. 4
7876. 5
7876. 6
7876. 7
7877. 0
7877. 1
7897. 0
7897. 1
7897. 2
7898. 0
7898. 2
7899. 0
7899. 1
7899. 2
7899. 3
7900. 0
7900. 1
7900. 2
7901. 0
7901. 1
7901. 2
7901. 3
7901. 4
7901. 5
7901. 6
7902. 0
7902. 1
7902. 2
7902. 3
7902. 4
7902. 5
7902. 6
7903. 0
7903. 3
7903. 4
7903. 5
7903. 6
7904. 0
7904. 1
7904. 2
7904. 3
7904. 4
7904. 5
7904. 6
7904. 8
7905. 0
7906. 4
7907. 0
7907. 1
7907. 3
7907. 4

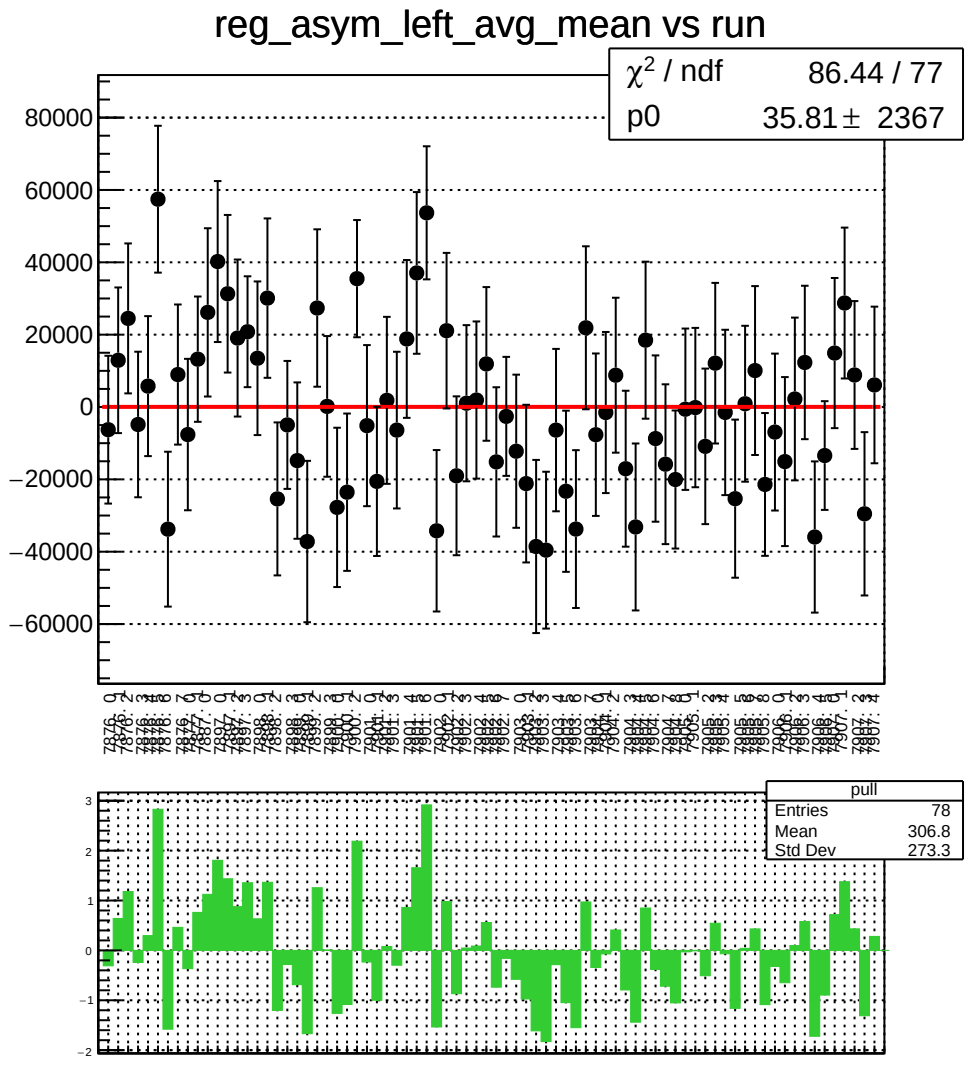

asym_dsr_correction_mean vs run
×10^3
χ² / ndf 74.29 / 71
p0 2238 ± 1821
pull
Entries 72
Mean 304.9
Std Dev 269.7

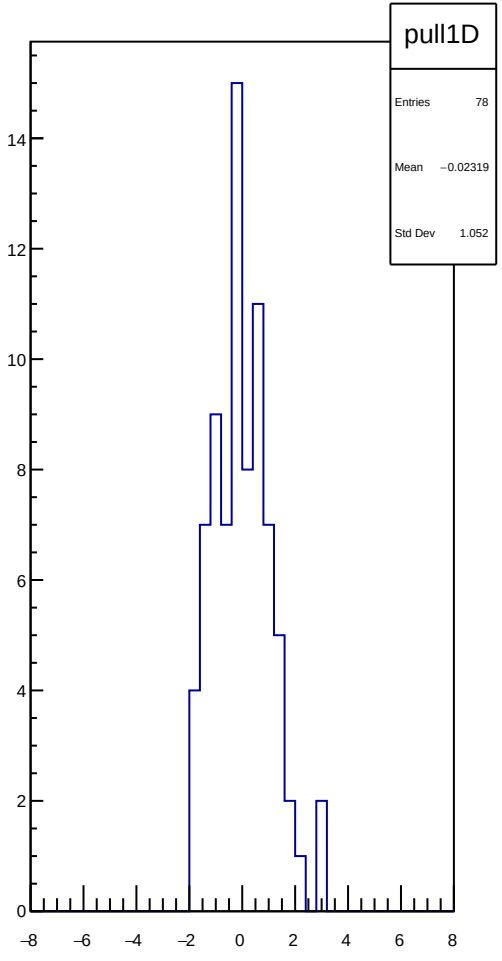

pull1D
Entries 72
Mean −0.01361
Std Dev 1.016

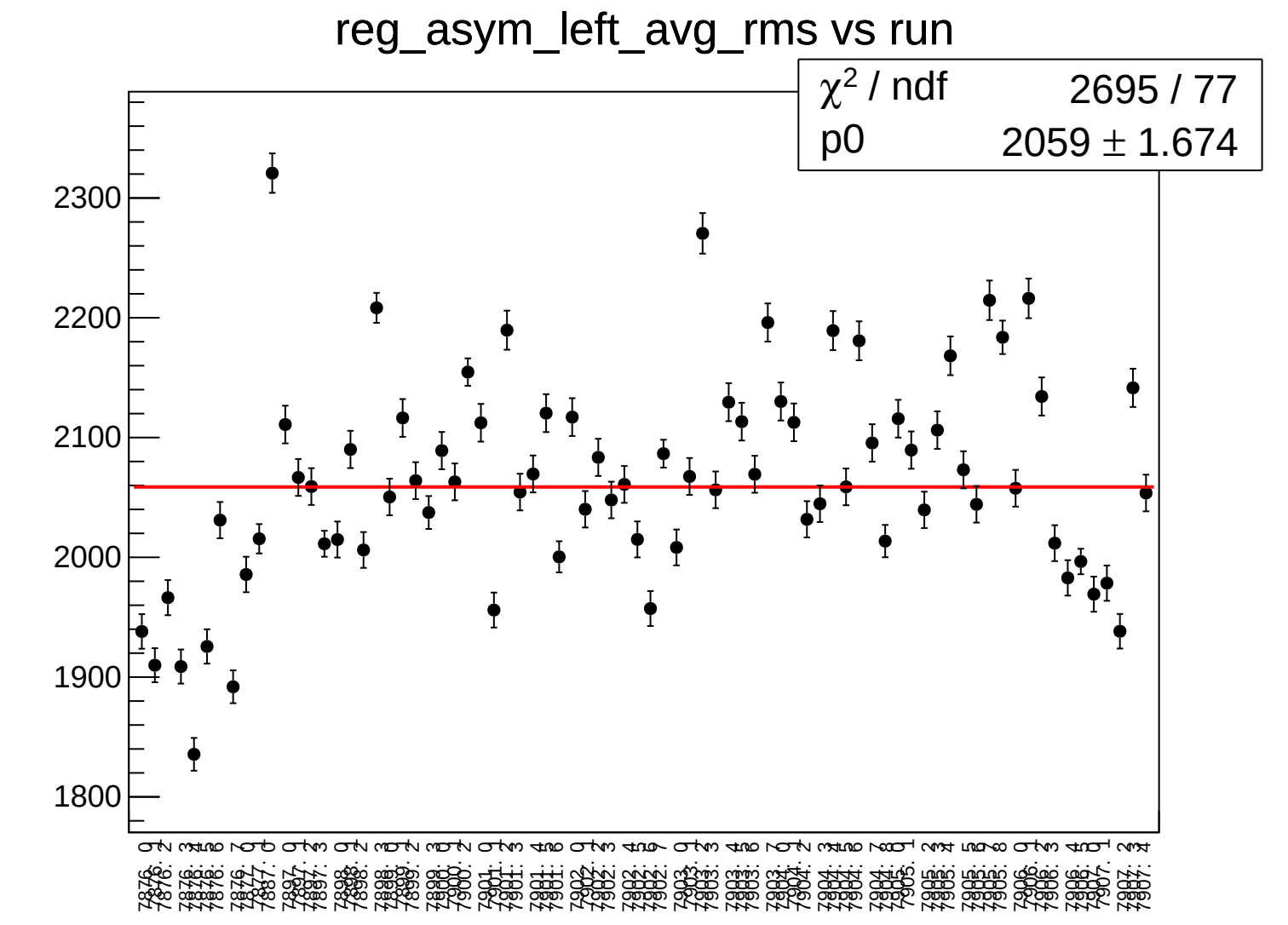

asym_dsr_correction_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 7.462e+05 / 76
p0 1116 ± 1.288

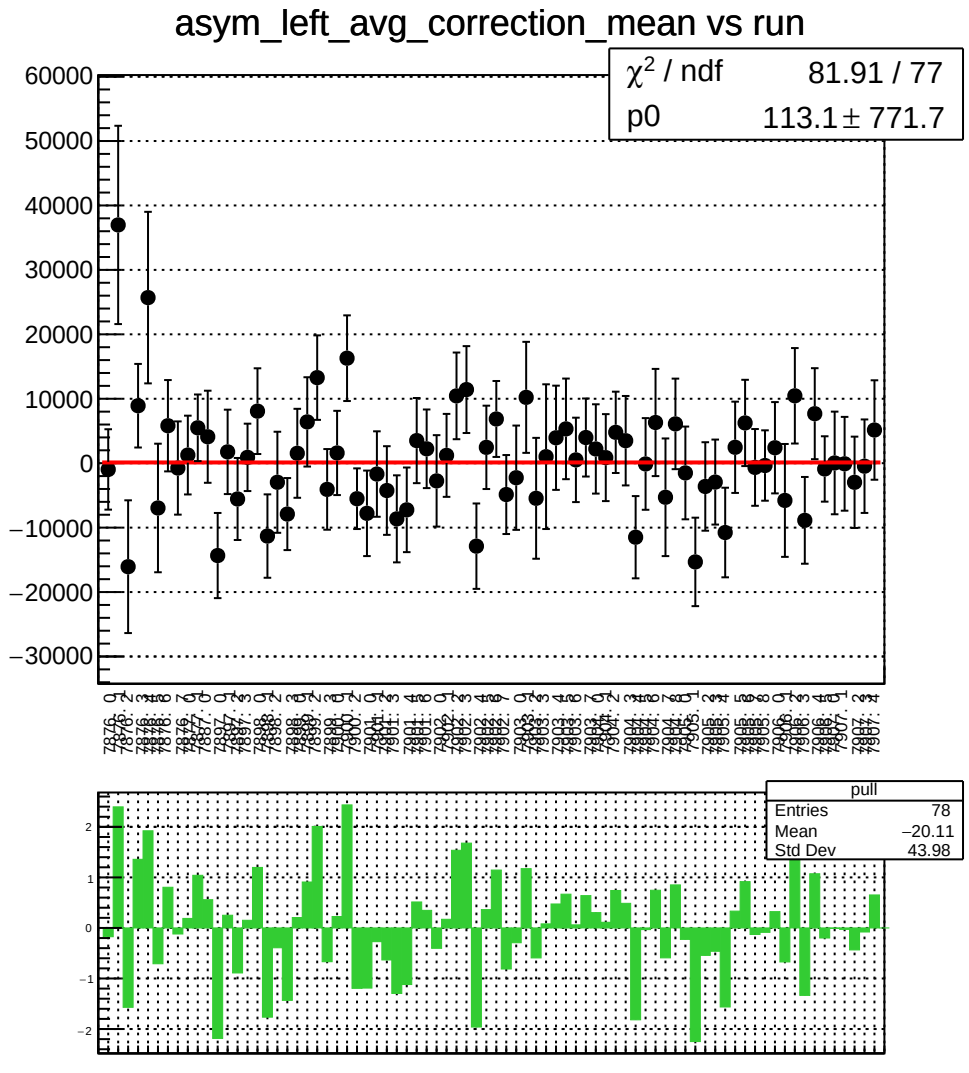

asym_dsr_mean vs run
×10^3
χ² / ndf 10.59 / 30
p0 −1.022e+05 ± 9.573e+04
1000
500
0
−500
−1000
−1500
7876. 0
7876. 1
7876. 2
7876. 5
7877. 0
7877. 1
7897. 2
7899. 0
7899. 1
7900. 0
7900. 1
7900. 2
7901. 0
7901. 1
7901. 3
7901. 4
7901. 5
7901. 6
7902. 4
7902. 5
7902. 6
7903. 4
7903. 6
7904. 0
7904. 2
7904. 4
7904. 5
7904. 6
7904. 7
7904. 8
7905. 0
pull
Entries 31
Mean −29.75
Std Dev 48.86
1
0.5
0
−0.5
−1
pull1D
Entries 31
Mean −0.01103
Std Dev 0.5844
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

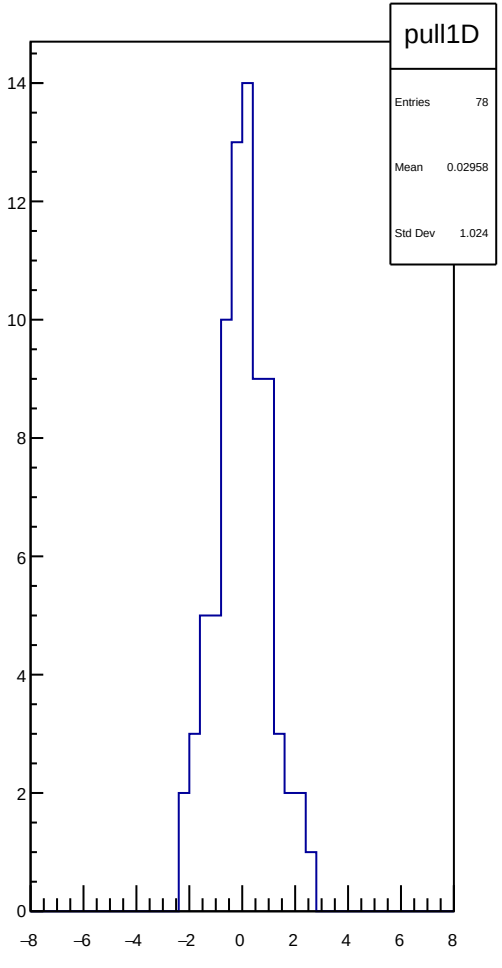

asym_dsr_rms vs run
×10^3
χ^2 / ndf 2.882e+05 / 57
p0 5.72e+04 ± 62.83
900
800
700
600
500
400
300
200
100

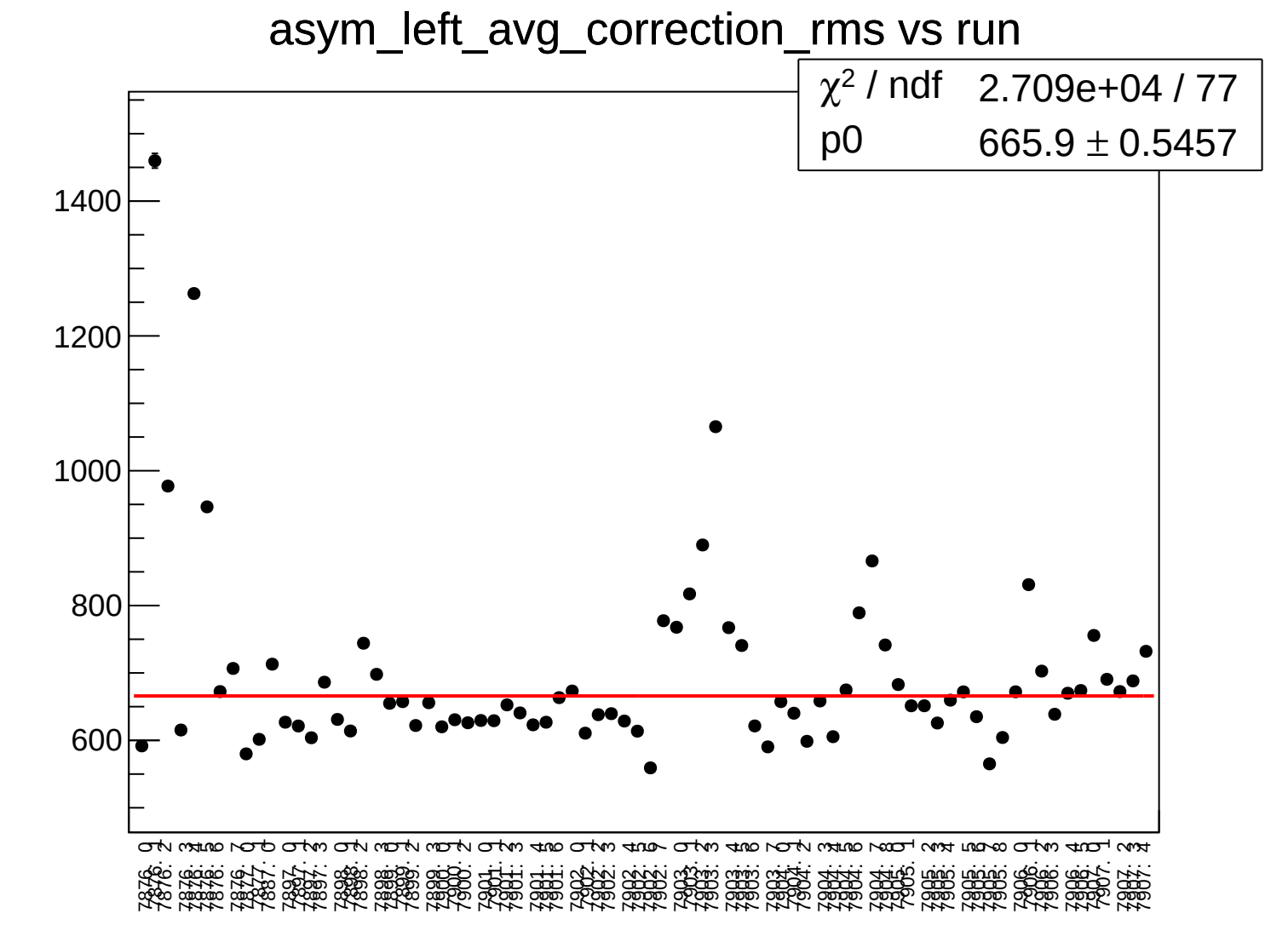

reg_asym_left_avg_mean vs run
χ² / ndf 86.44 / 77
p0 35.81 ± 2367
pull
Entries 78
Mean 306.8
Std Dev 273.3

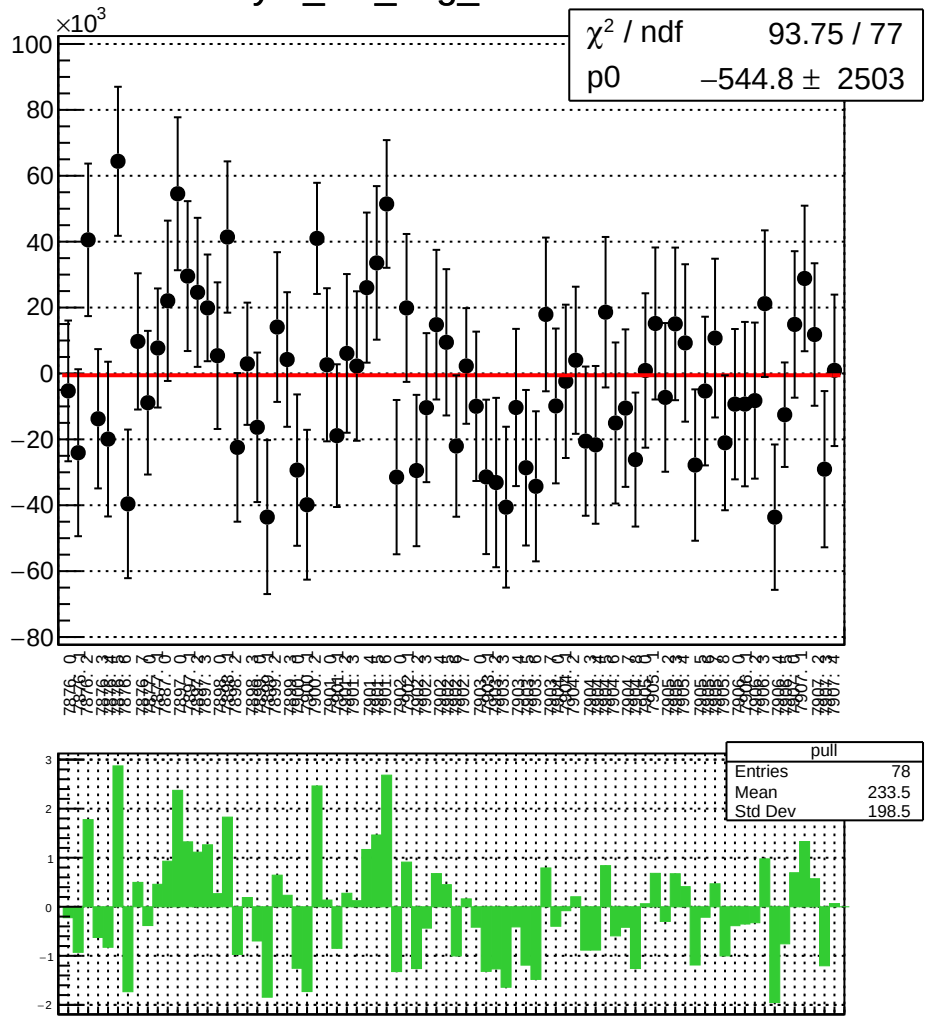

pull1D
Entries 78
Mean −0.02319
Std Dev 1.052

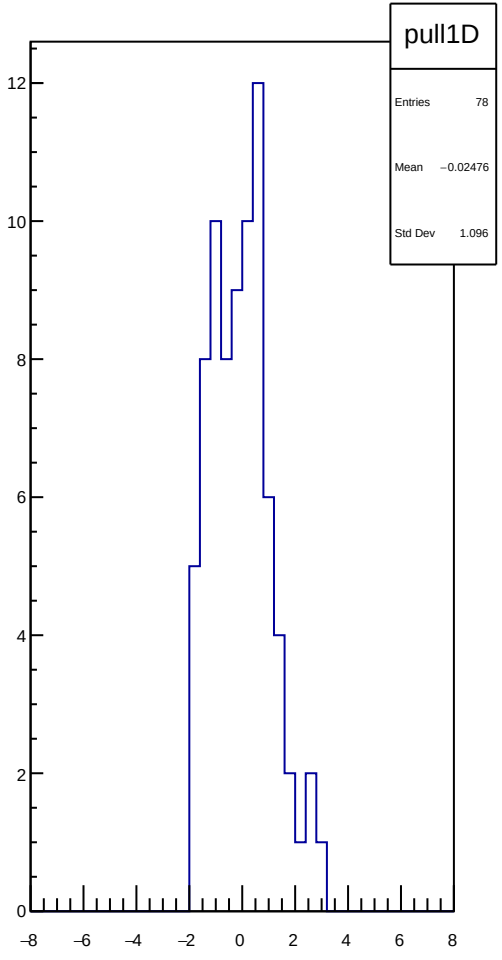

reg_asym_left_avg_rms vs run
χ^2 / ndf 2695 / 77
p0 2059 ± 1.674
2300
2200
2100
2000
1900
1800

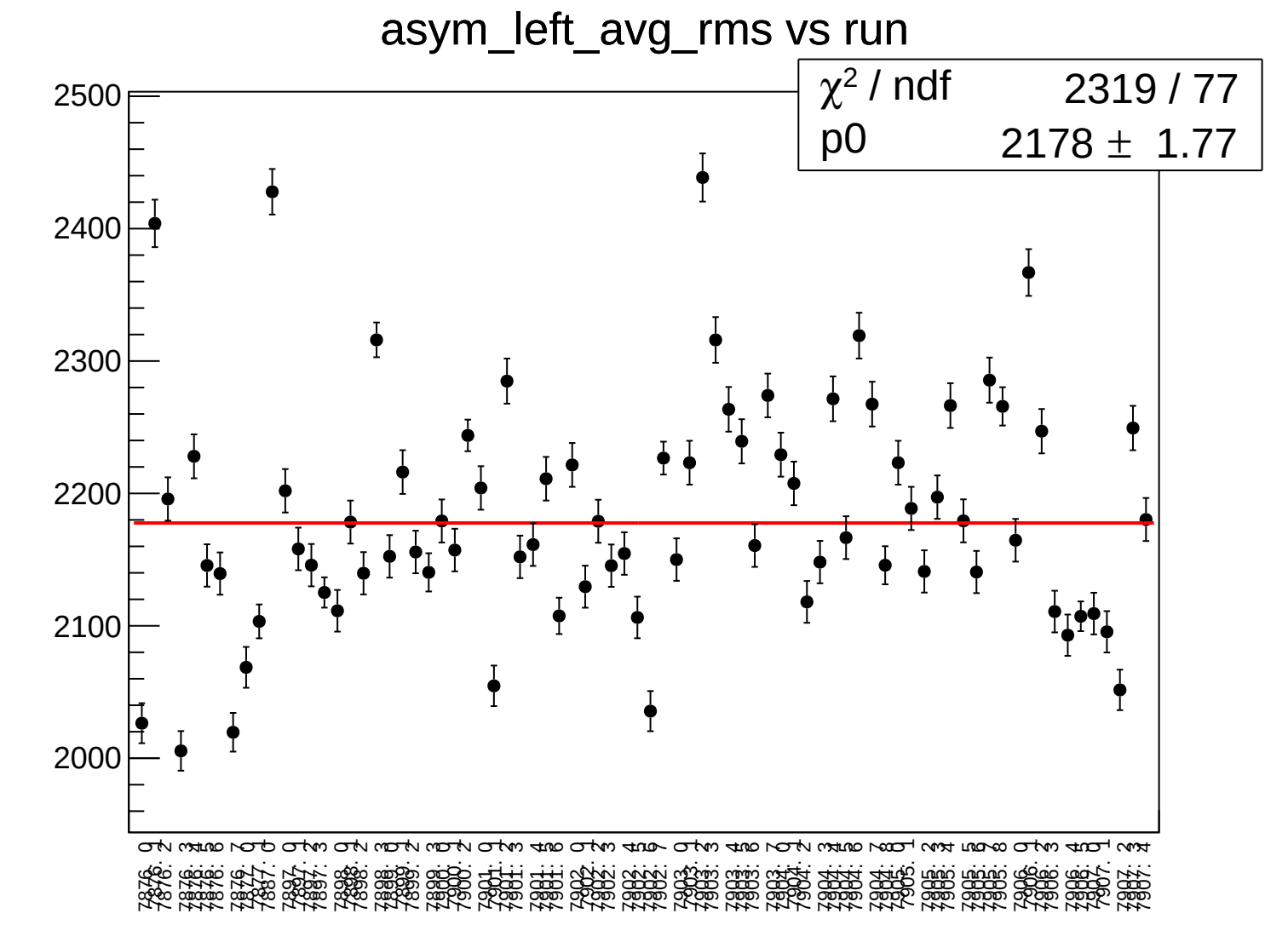

asym_left_avg_correction_mean vs run
χ² / ndf 81.91 / 77
p0 113.1 ± 771.7
pull
Entries 78
Mean −20.11
Std Dev 43.98

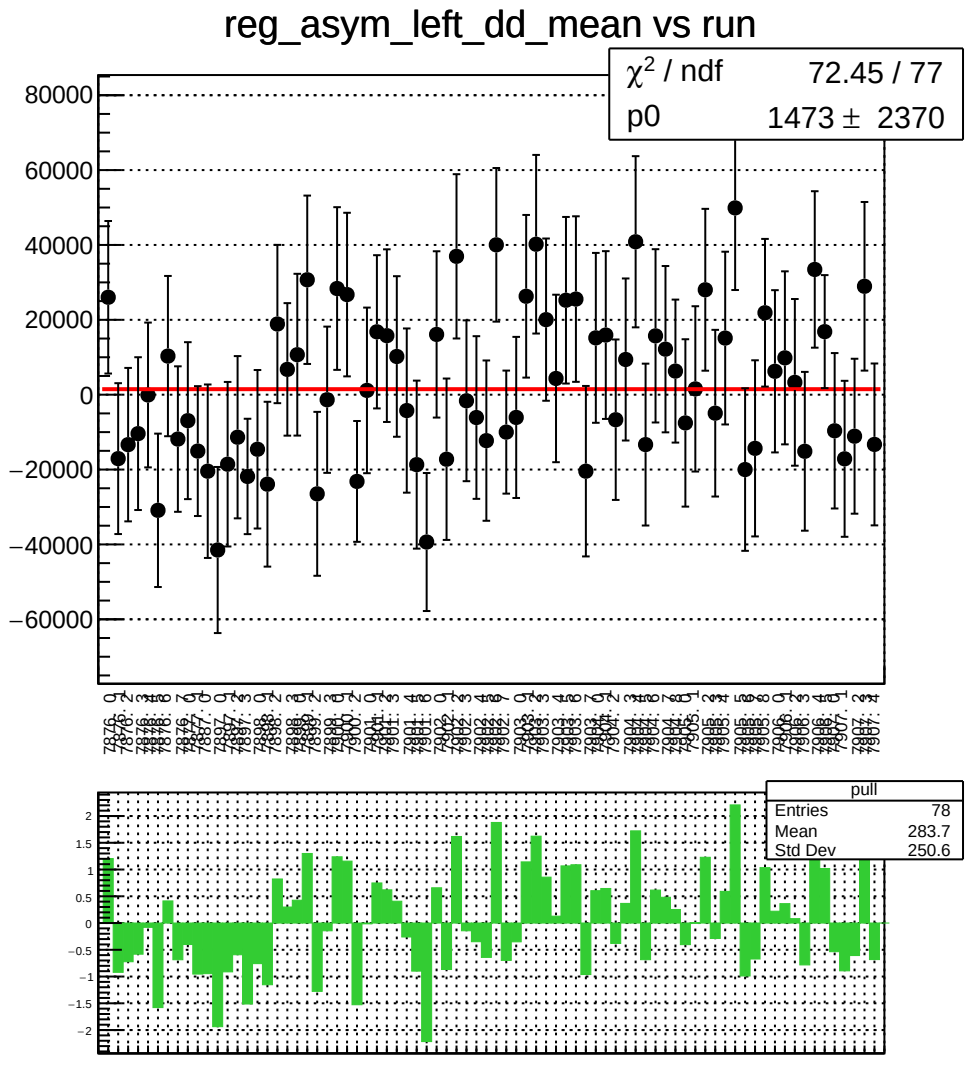

pull1D
Entries 78
Mean 0.02958
Std Dev 1.024

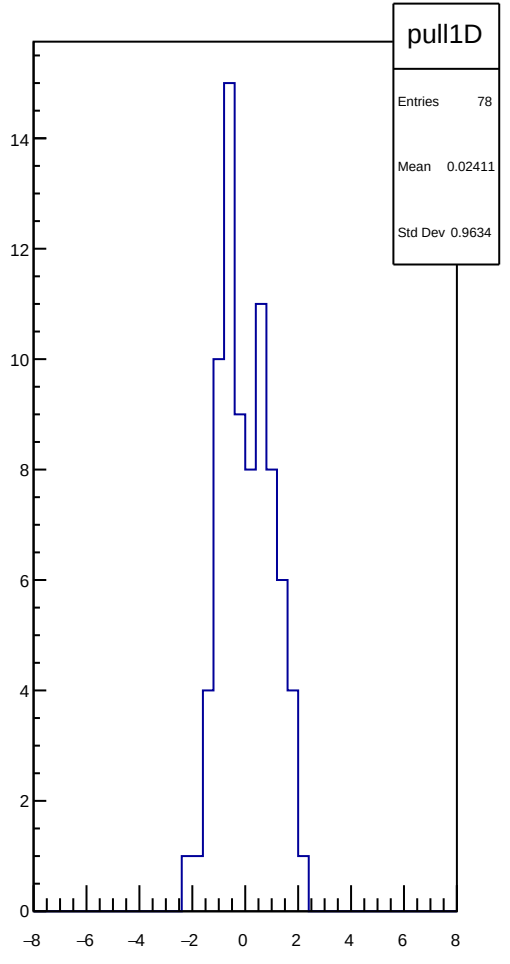

asym_left_avg_correction_rms vs run
χ² / ndf 2.709e+04 / 77
p0 665.9 ± 0.5457
1400
1200
1000
800
600

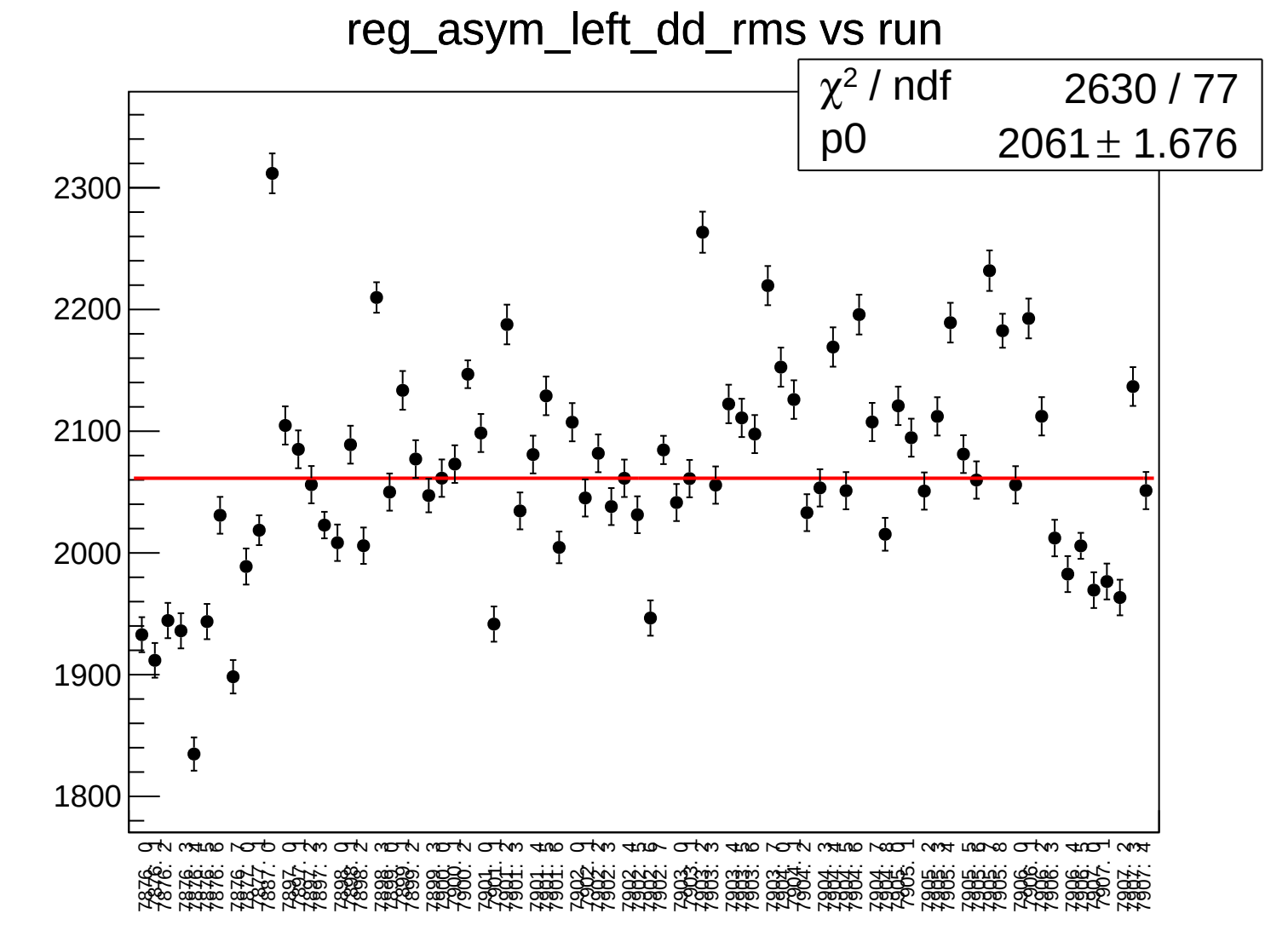

asym_left_avg_mean vs run
×10^3
χ² / ndf 93.75 / 77
p0 −544.8 ± 2503
pull
Entries 78
Mean 233.5
Std Dev 198.5

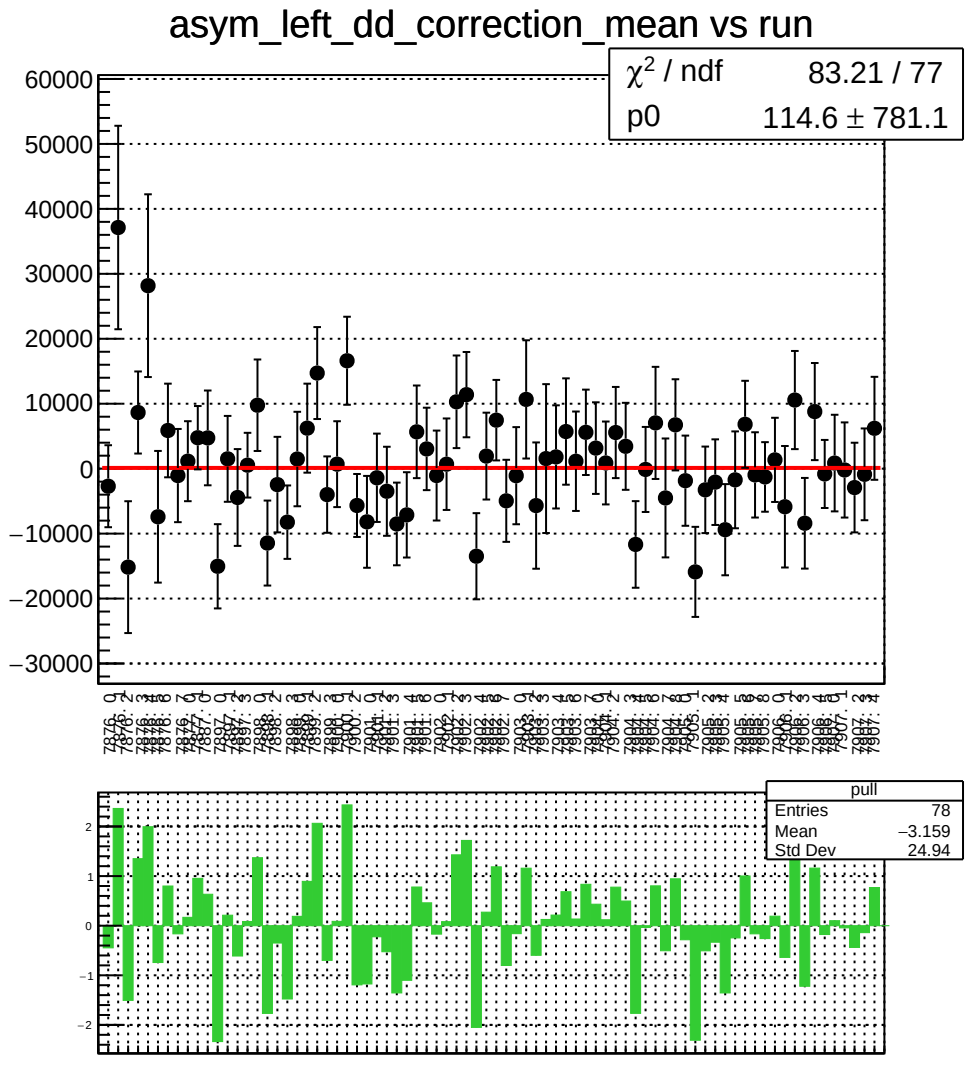

pull1D
Entries 78
Mean −0.02476
Std Dev 1.096

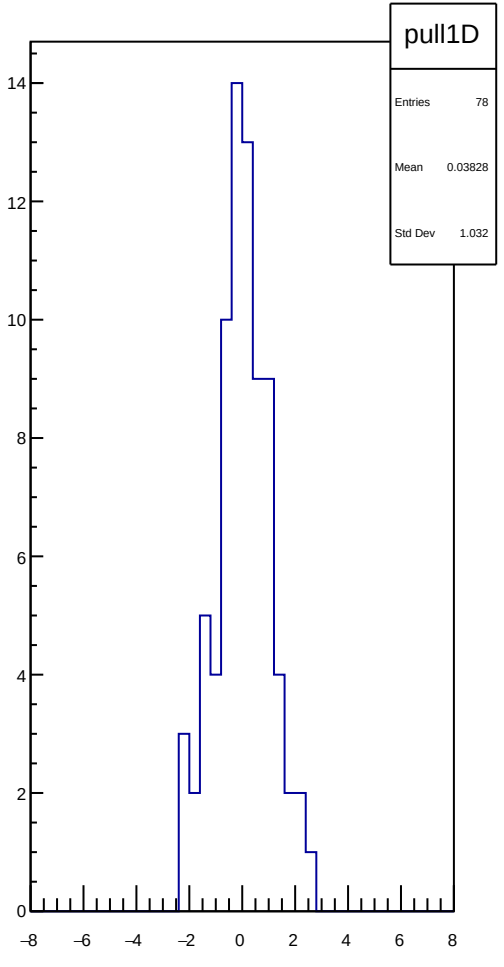

asym_left_avg_rms vs run
χ^2 / ndf 2319 / 77
p0 2178 ± 1.77
2500
2400
2300
2200
2100
2000

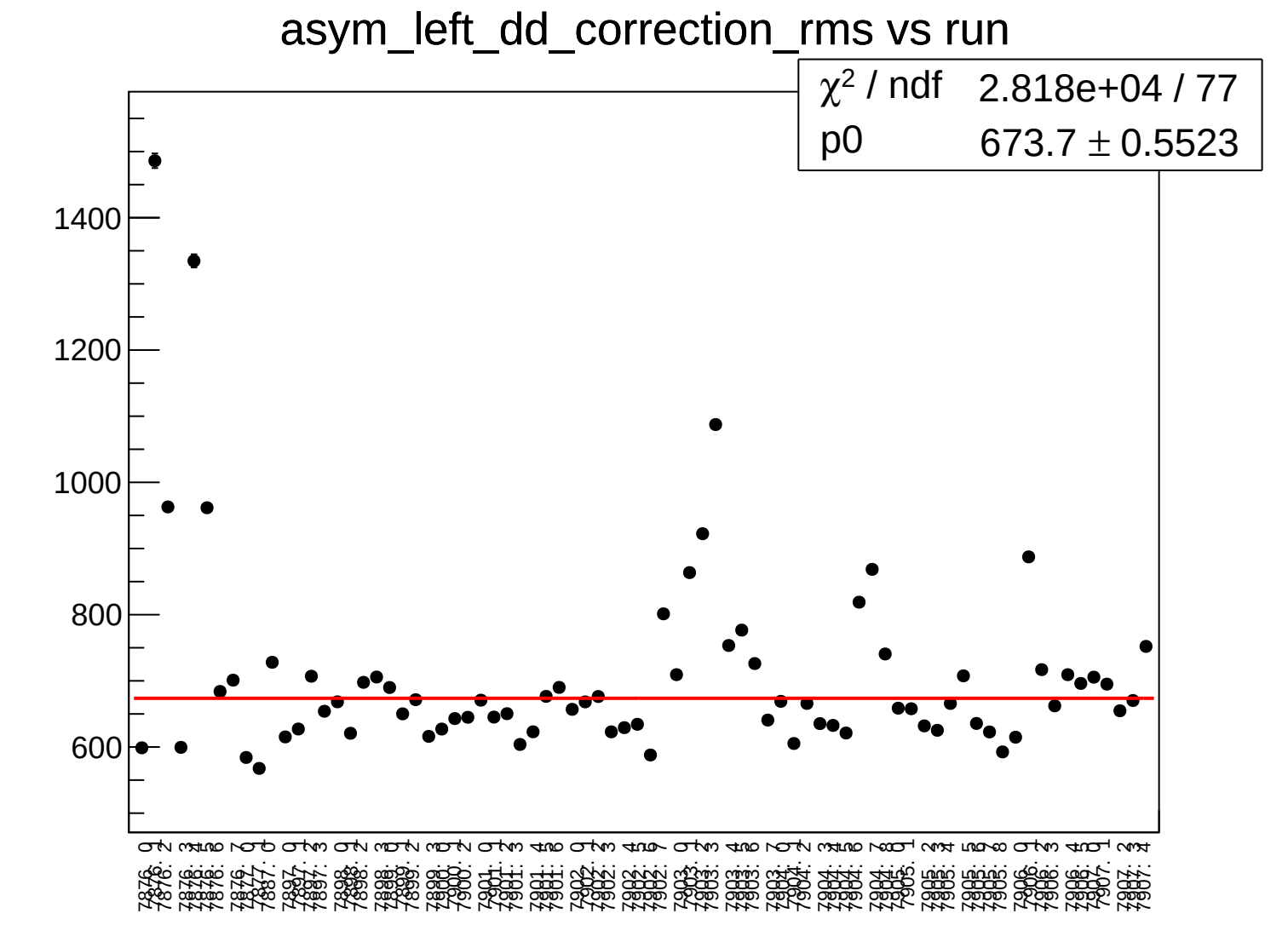

reg_asym_left_dd_mean vs run
χ² / ndf 72.45 / 77
p0 1473 ± 2370
pull
Entries 78
Mean 283.7
Std Dev 250.6

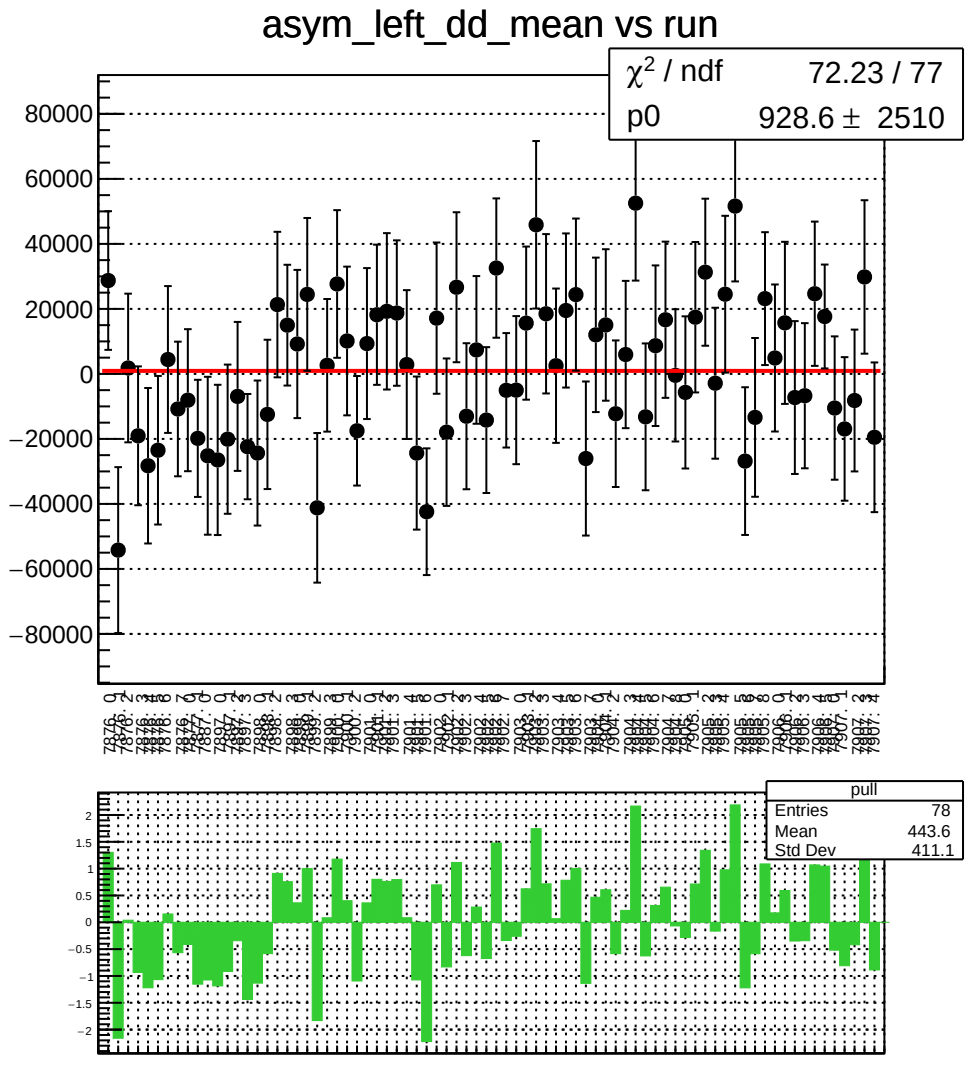

pull1D
Entries 78
Mean 0.02411
Std Dev 0.9634

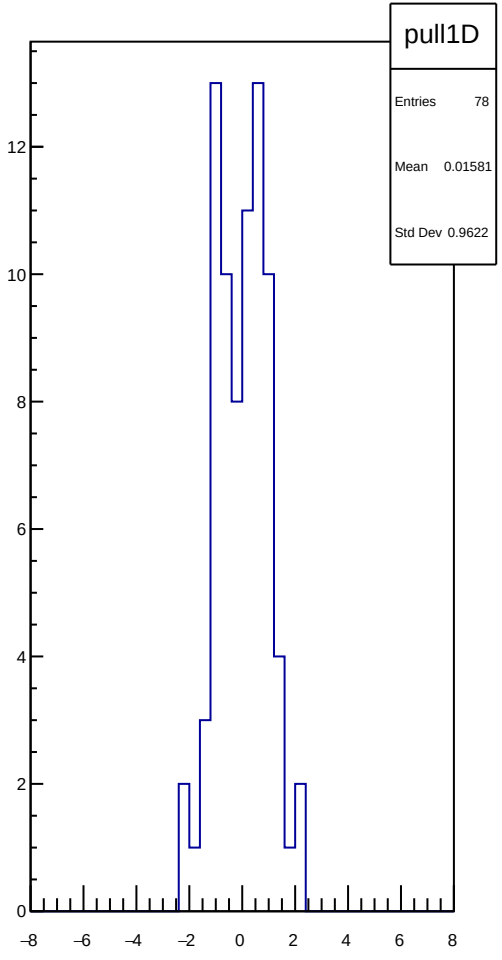

reg_asym_left_dd_rms vs run
χ² / ndf 2630 / 77
p0 2061 ± 1.676
2300
2200
2100
2000
1900
1800

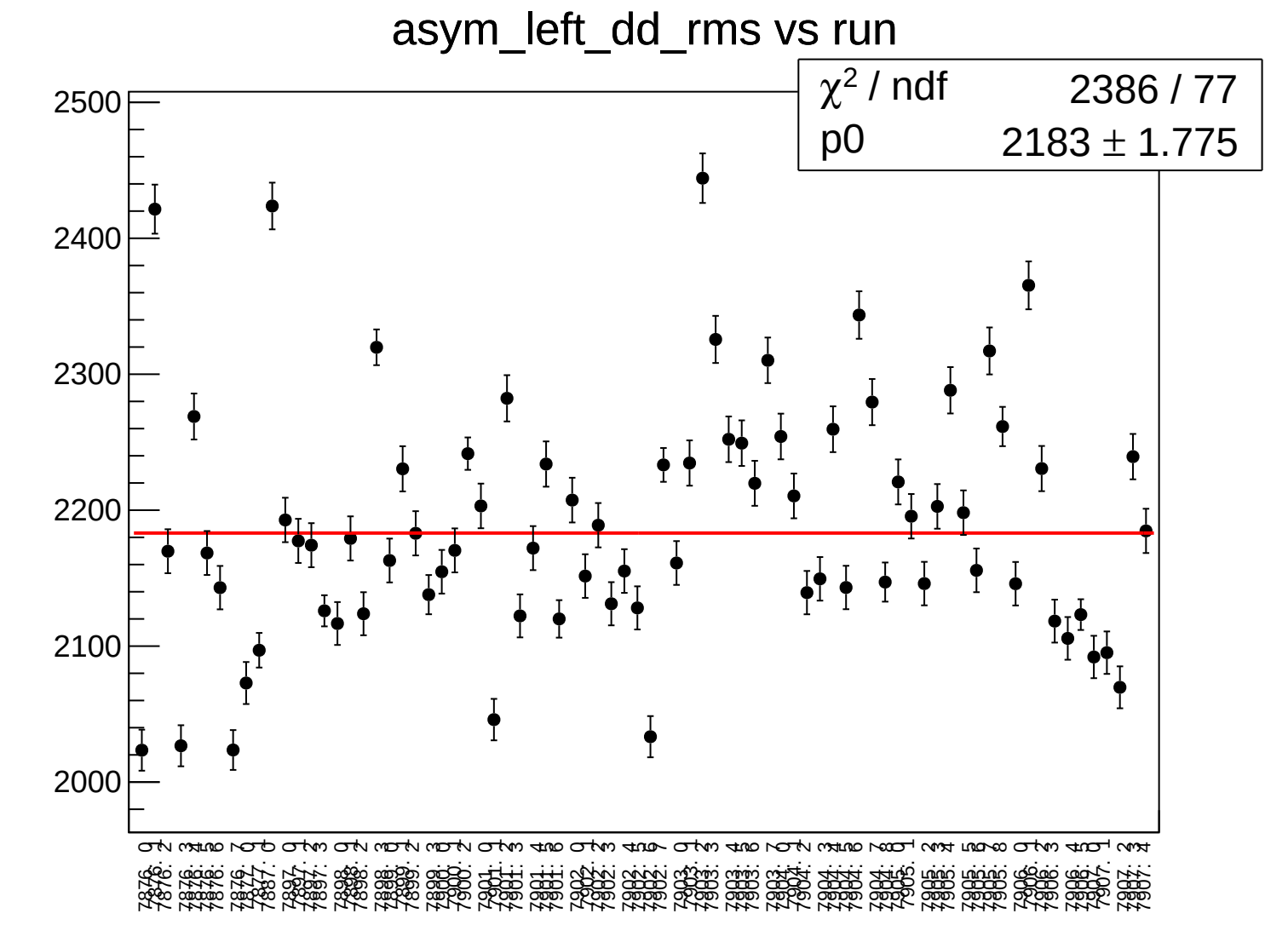

asym_left_dd_correction_mean vs run
χ² / ndf 83.21 / 77
p0 114.6 ± 781.1
pull
Entries 78
Mean −3.159
Std Dev 24.94

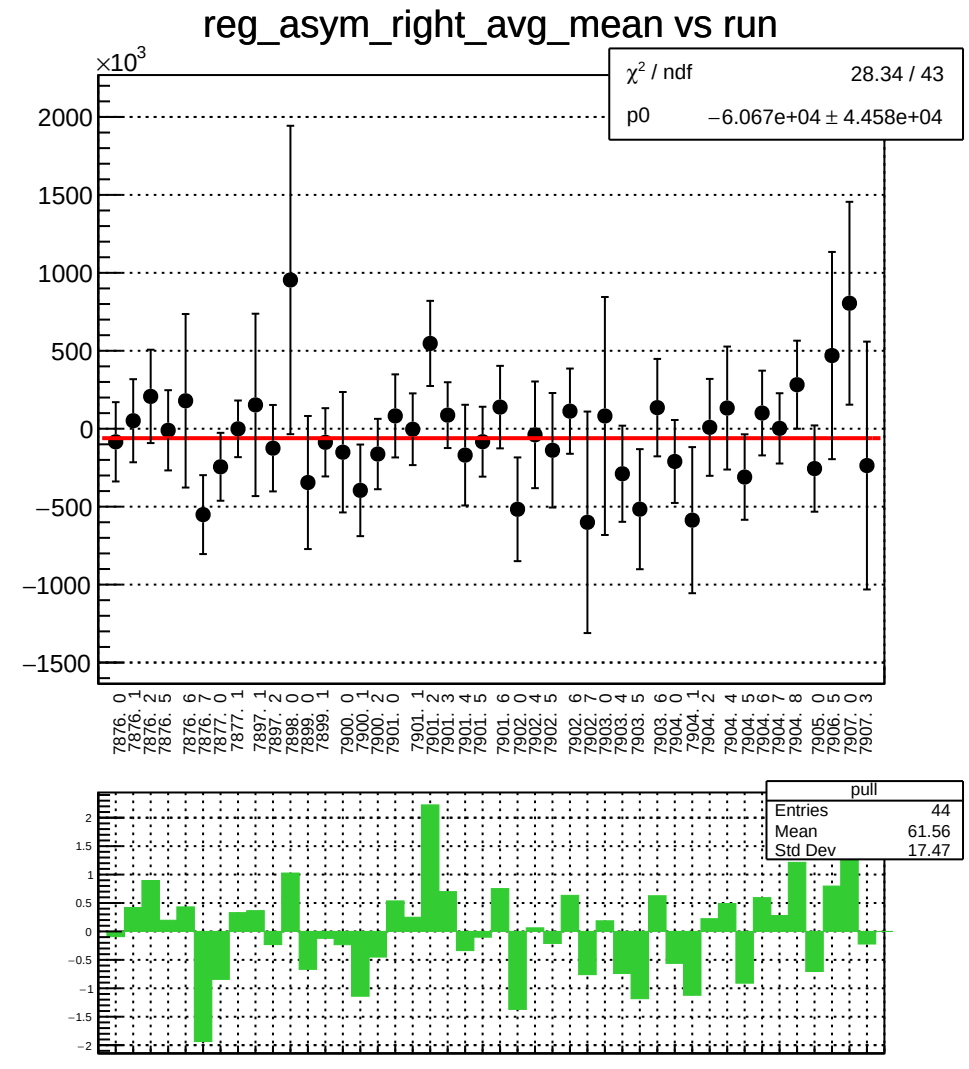

pull1D
Entries 78
Mean 0.03828
Std Dev 1.032

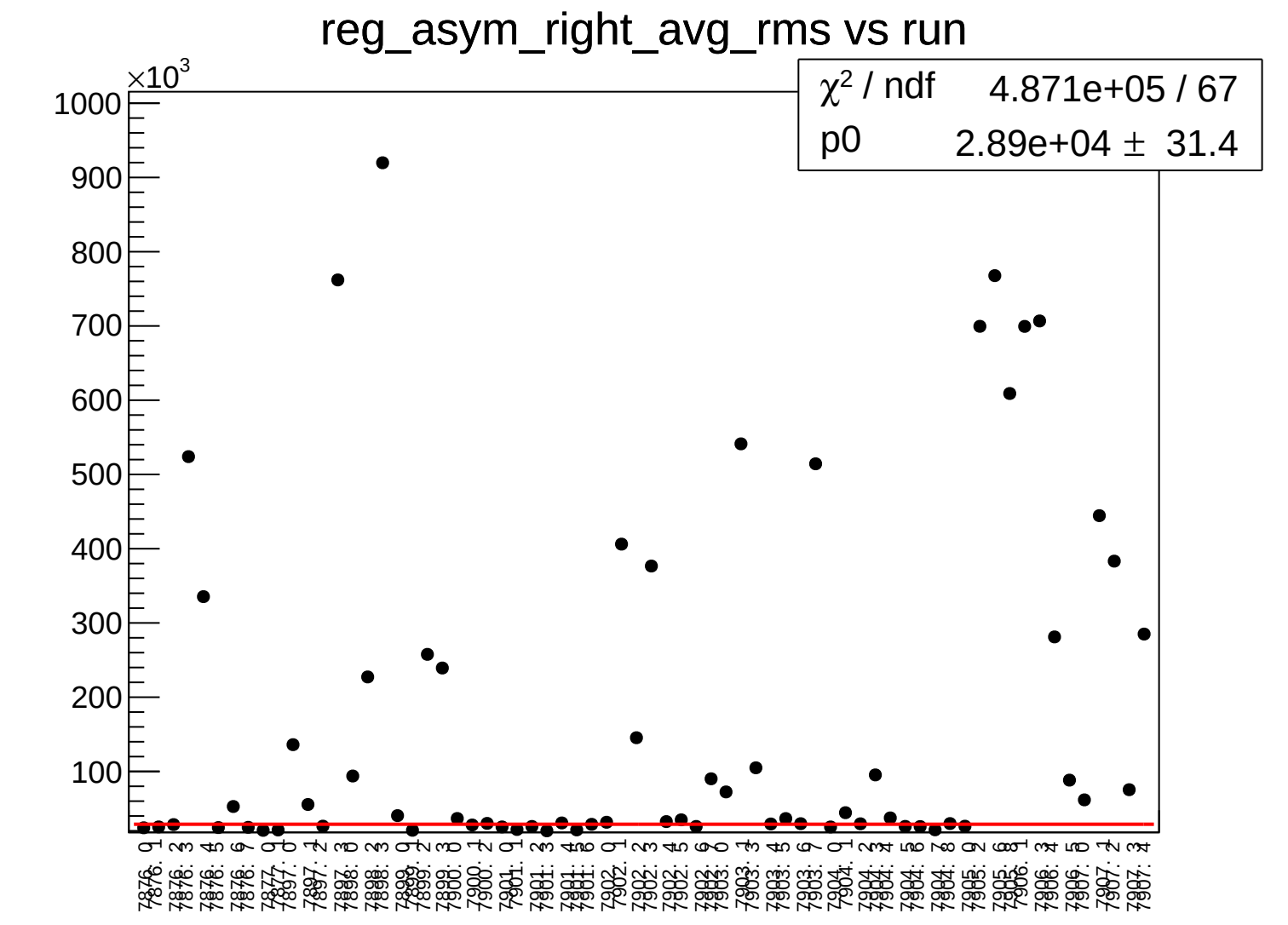

asym_left_dd_correction_rms vs run
χ² / ndf 2.818e+04 / 77
p0 673.7 ± 0.5523
1400
1200
1000
800
600

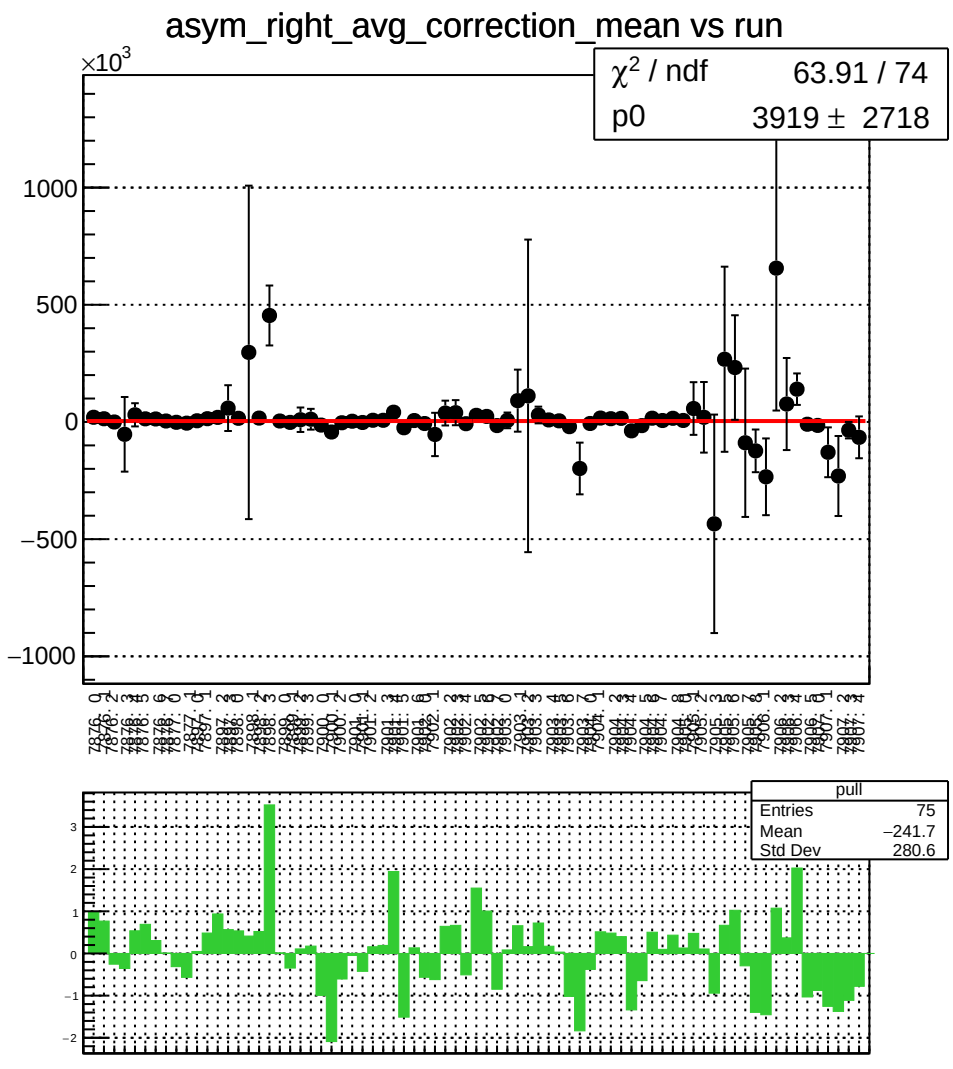

asym_left_dd_mean vs run
χ² / ndf 72.23 / 77
p0 928.6 ± 2510
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 78
Mean 443.6
Std Dev 411.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

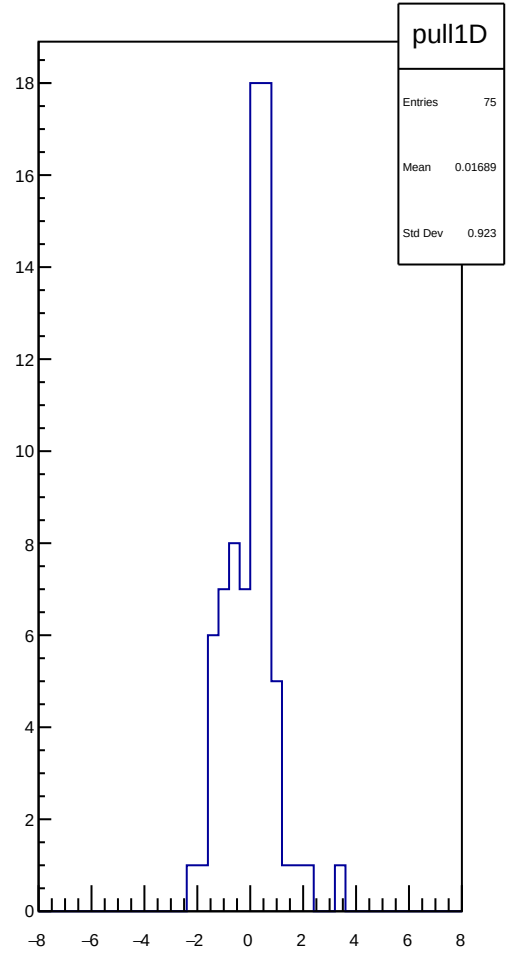

pull1D
Entries 78
Mean 0.01581
Std Dev 0.9622
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

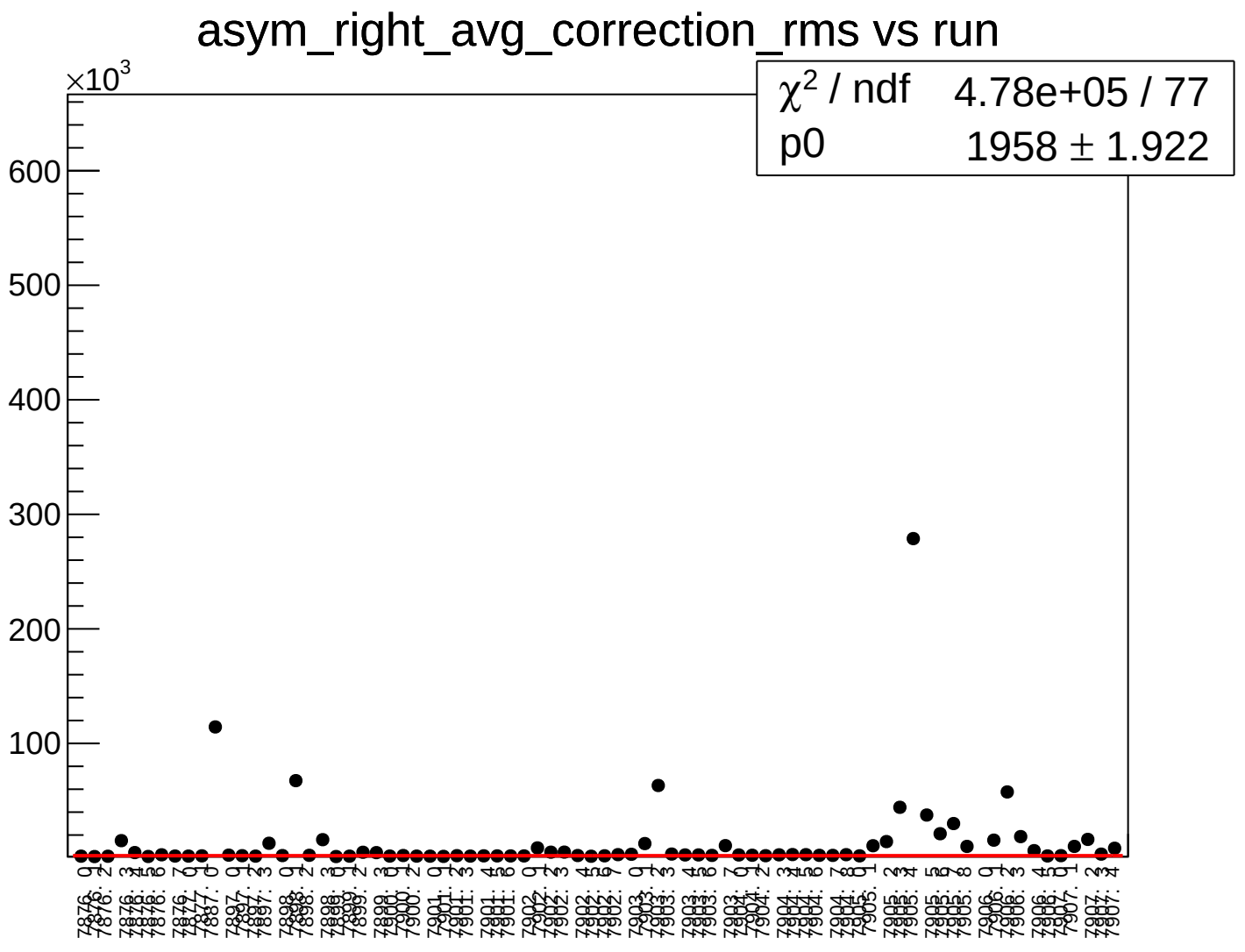

asym_left_dd_rms vs run
χ² / ndf 2386 / 77
p0 2183 ± 1.775
2500
2400
2300
2200
2100
2000

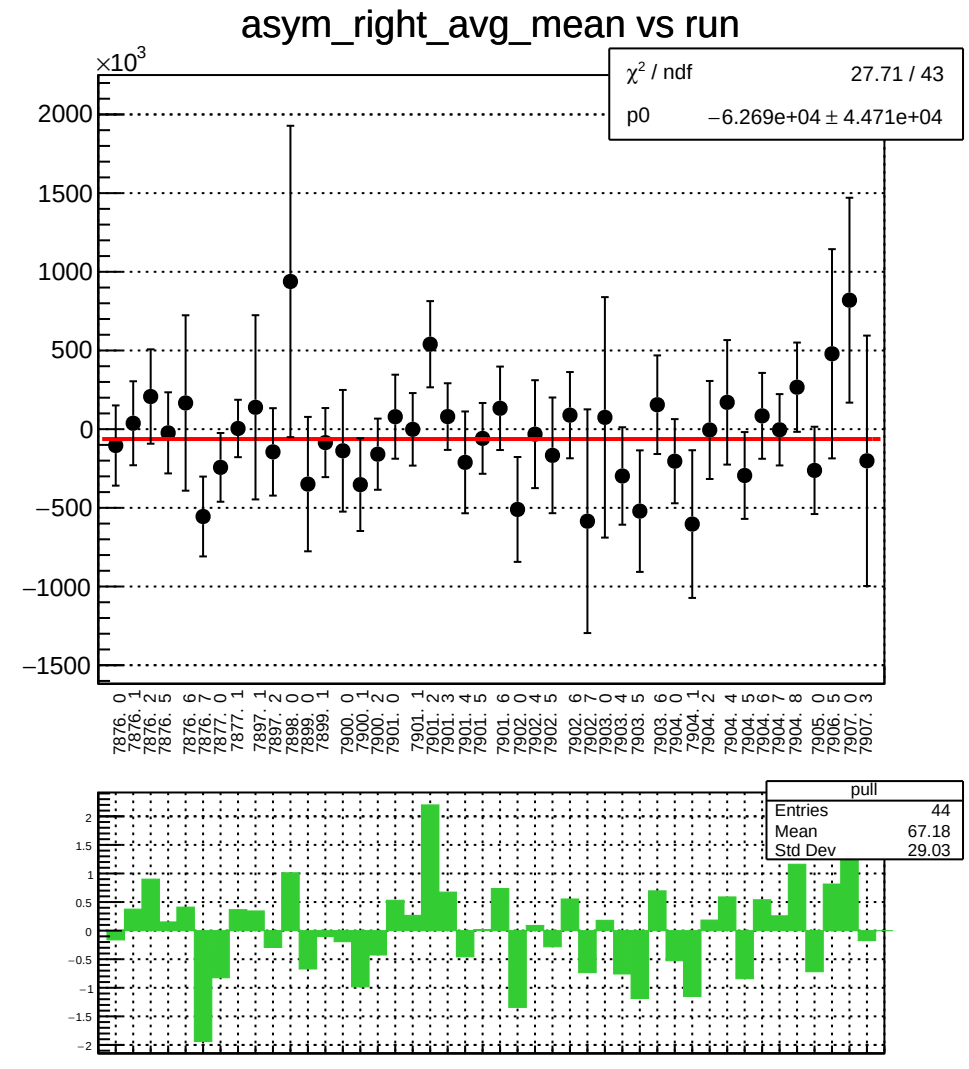

reg_asym_right_avg_mean vs run
×10^3
χ² / ndf 28.34 / 43
p0 −6.067e+04 ± 4.458e+04
2000
1500
1000
500
0
−500
−1000
−1500
7876. 0
7876. 1
7876. 2
7876. 5
7876. 6
7876. 7
7877. 0
7877. 1
7897. 1
7897. 2
7898. 0
7899. 0
7899. 1
7900. 0
7900. 1
7900. 2
7901. 0
7901. 1
7901. 2
7901. 3
7901. 4
7901. 5
7901. 6
7902. 0
7902. 4
7902. 5
7902. 6
7902. 7
7903. 0
7903. 4
7903. 5
7903. 6
7904. 0
7904. 1
7904. 2
7904. 4
7904. 5
7904. 6
7904. 7
7904. 8
7905. 0
7906. 5
7907. 0
7907. 3
pull
Entries 44
Mean 61.56
Std Dev 17.47
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean 0.01447
Std Dev 0.8025
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

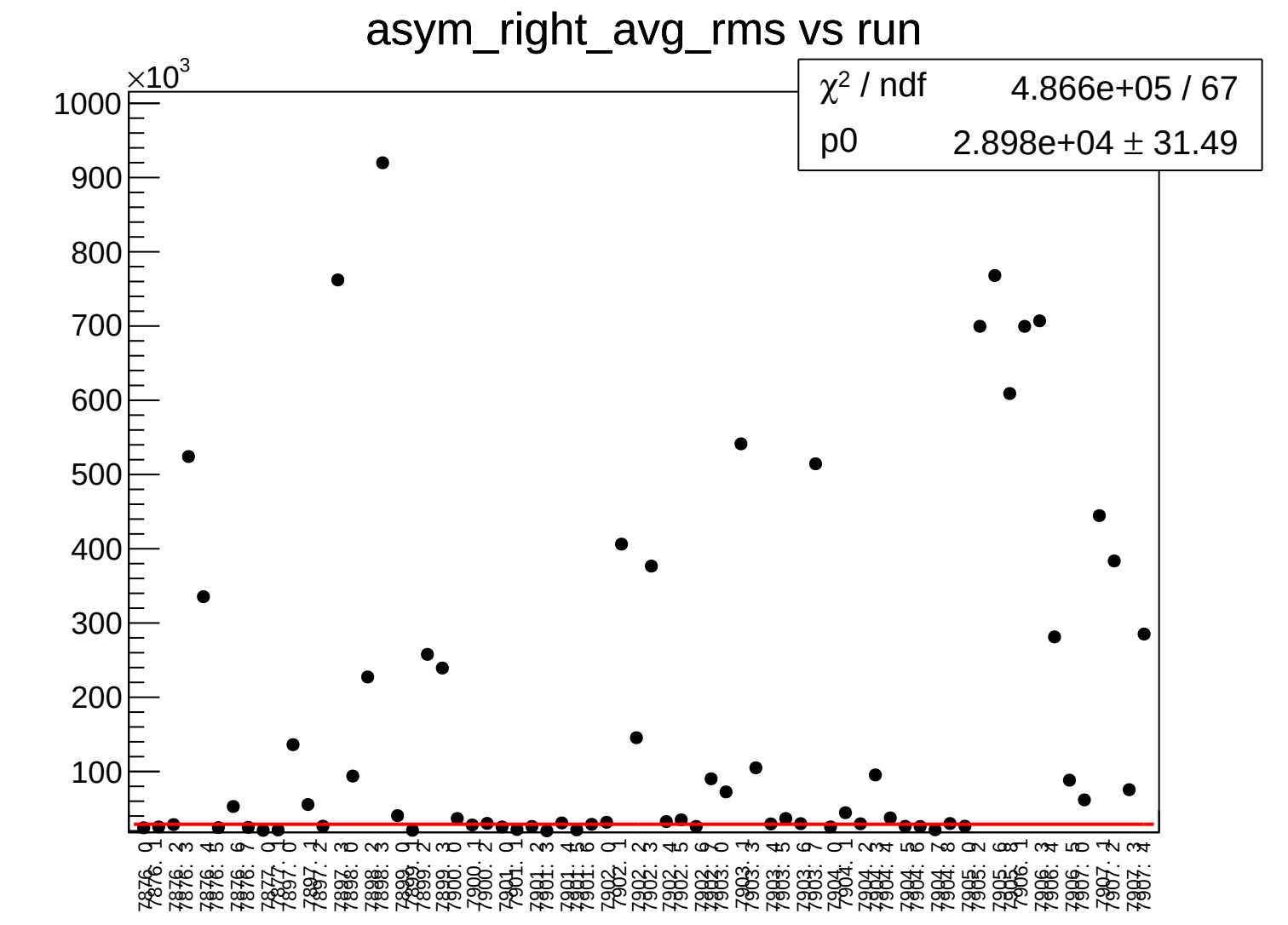

reg_asym_right_avg_rms vs run
×10^3
χ² / ndf 4.871e+05 / 67
p0 2.89e+04 ± 31.4
1000
900
800
700
600
500
400
300
200
100

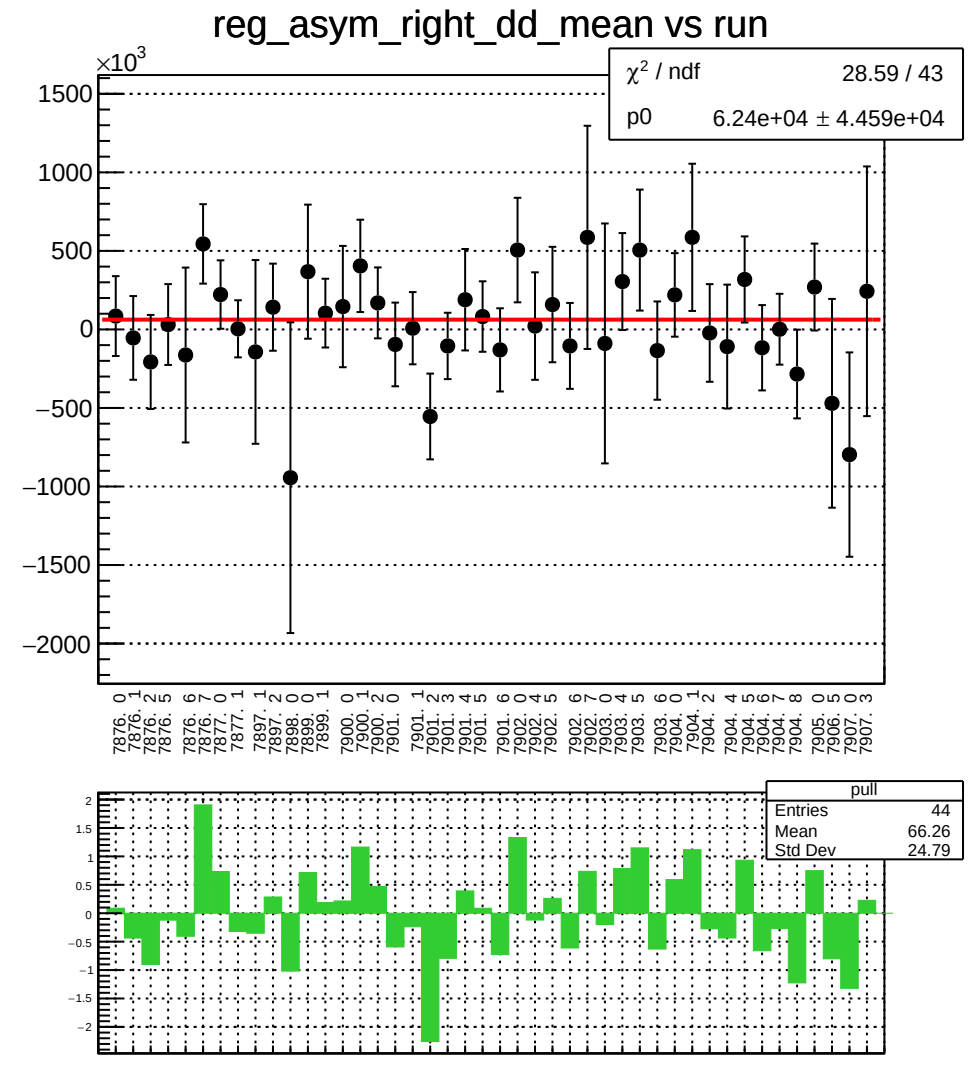

asym_right_avg_correction_mean vs run
χ² / ndf 63.91 / 74
p0 3919 ± 2718
pull
Entries 75
Mean −241.7
Std Dev 280.6

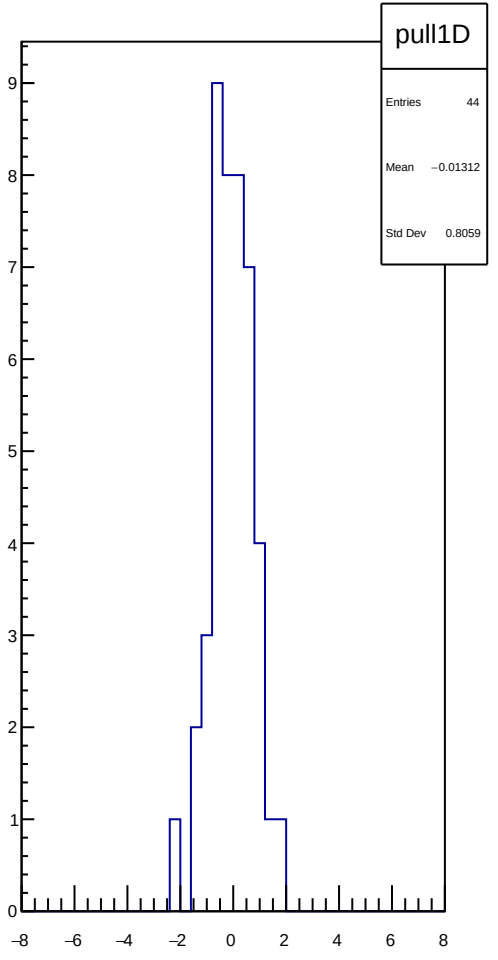

pull1D
Entries 75
Mean 0.01689
Std Dev 0.923

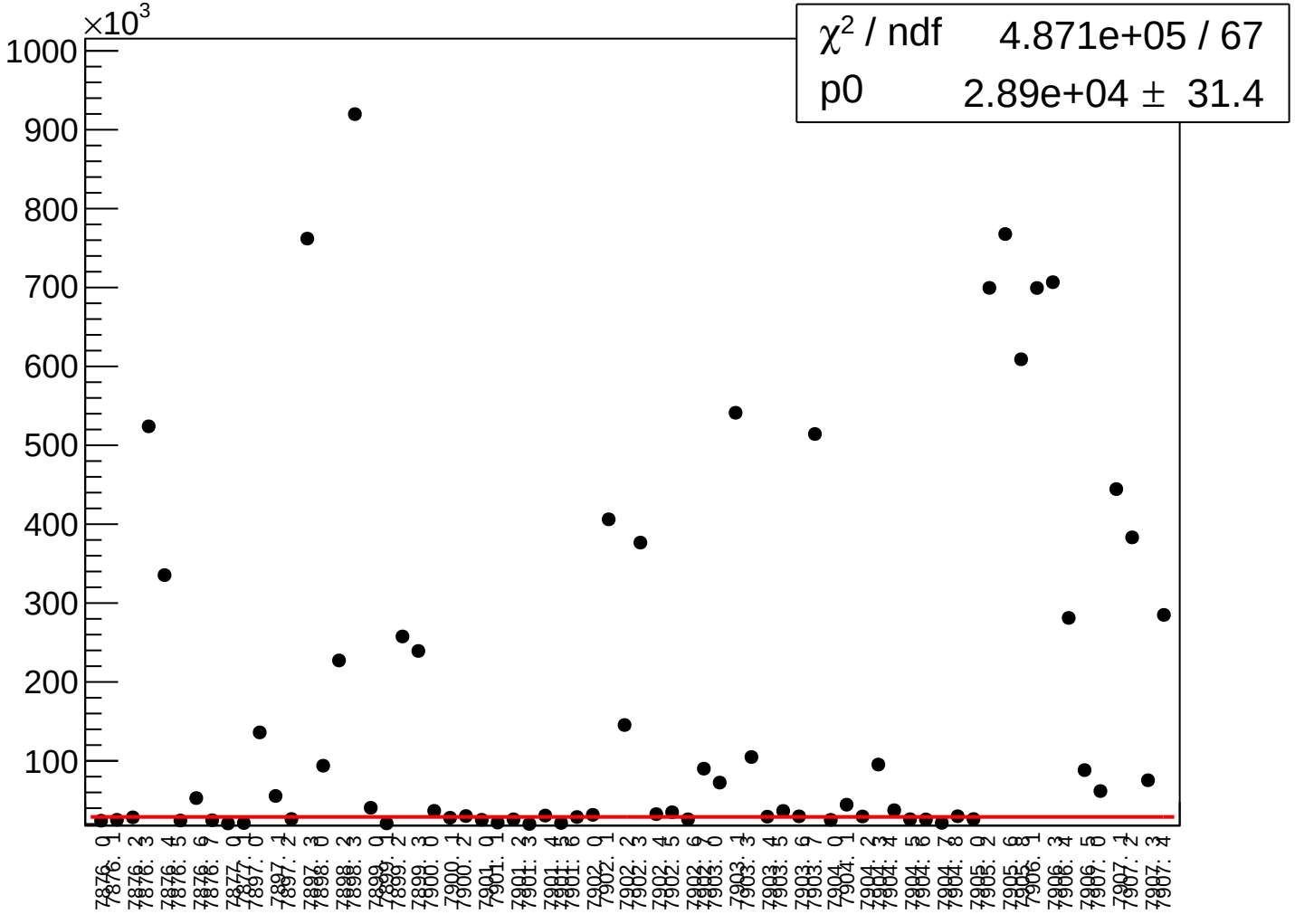

asym_right_avg_correction_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 4.78e+05 / 77
p0 1958 ± 1.922

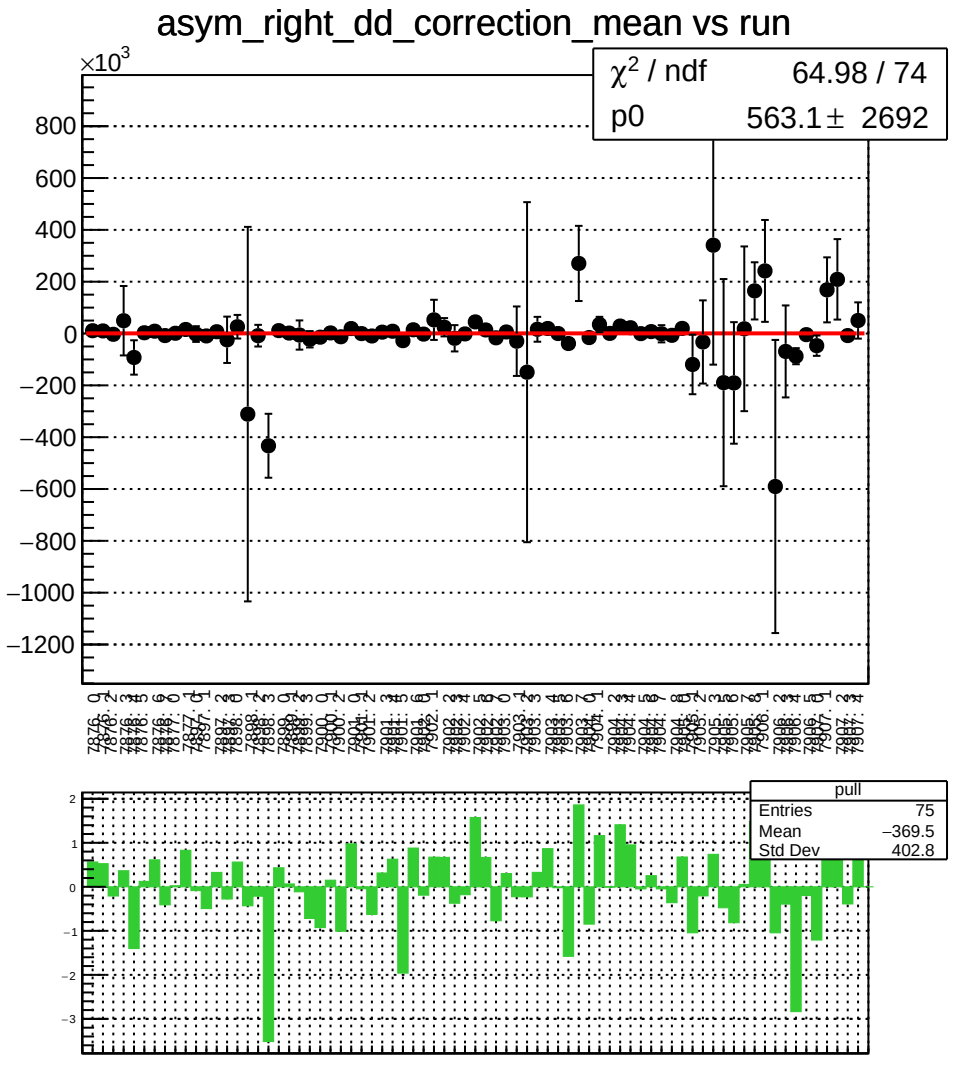

asym_right_avg_mean vs run
×10^3
χ² / ndf 27.71 / 43
p0 −6.269e+04 ± 4.471e+04
2000
1500
1000
500
0
−500
−1000
−1500
7876. 0
7876. 1
7876. 2
7876. 5
7876. 6
7876. 7
7877. 0
7877. 1
7897. 1
7897. 2
7898. 0
7899. 0
7899. 1
7900. 0
7900. 1
7900. 2
7901. 0
7901. 1
7901. 2
7901. 3
7901. 4
7901. 5
7901. 6
7902. 0
7902. 4
7902. 5
7902. 6
7902. 7
7903. 0
7903. 4
7903. 5
7903. 6
7904. 0
7904. 1
7904. 2
7904. 4
7904. 5
7904. 6
7904. 7
7904. 8
7905. 0
7906. 5
7907. 0
7907. 3
pull
Entries 44
Mean 67.18
Std Dev 29.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean 0.01459
Std Dev 0.7934
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

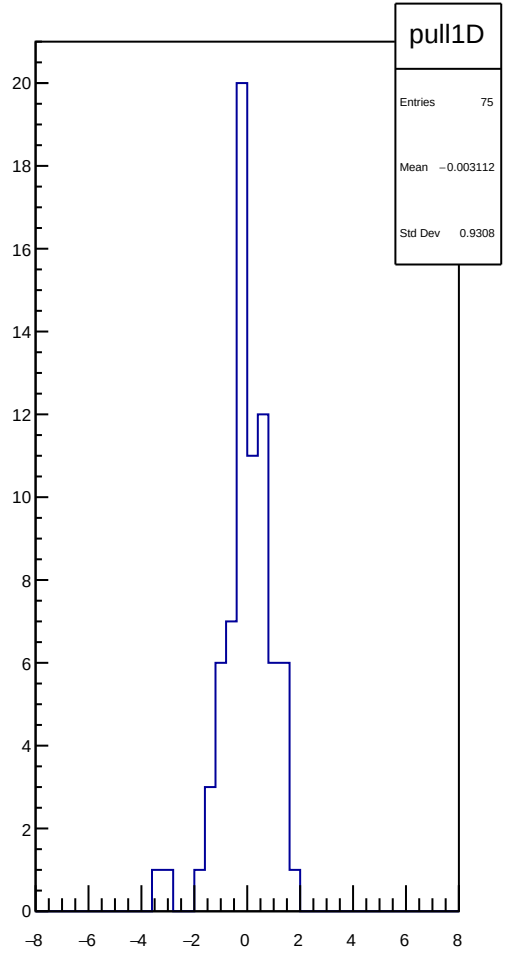

asym_right_avg_rms vs run
×10^3
1000
900
800
700
600
500
400
300
200
100
χ² / ndf 4.866e+05 / 67
p0 2.898e+04 ± 31.49

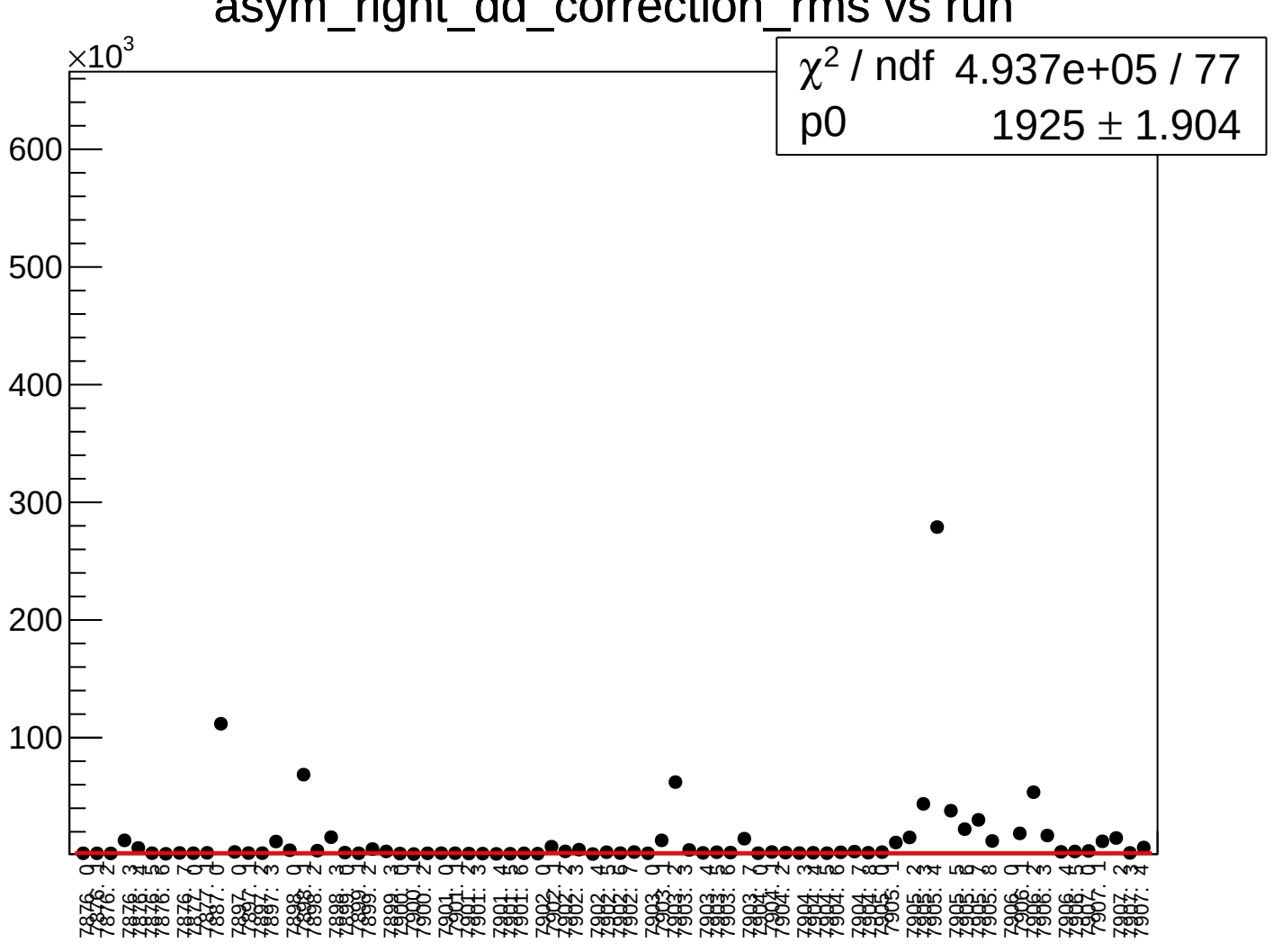

reg_asym_right_dd_mean vs run
×10^3
χ² / ndf 28.59 / 43
p0 6.24e+04 ± 4.459e+04
1500
1000
500
0
−500
−1000
−1500
−2000
7876. 0
7876. 1
7876. 2
7876. 5
7876. 6
7876. 7
7877. 0
7877. 1
7897. 1
7897. 2
7898. 0
7899. 0
7899. 1
7900. 0
7900. 1
7900. 2
7901. 0
7901. 1
7901. 2
7901. 3
7901. 4
7901. 5
7901. 6
7902. 0
7902. 4
7902. 5
7902. 6
7902. 7
7903. 0
7903. 4
7903. 5
7903. 6
7904. 0
7904. 1
7904. 2
7904. 4
7904. 5
7904. 6
7904. 7
7904. 8
7905. 0
7906. 5
7907. 0
7907. 3
pull
Entries 44
Mean 66.26
Std Dev 24.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

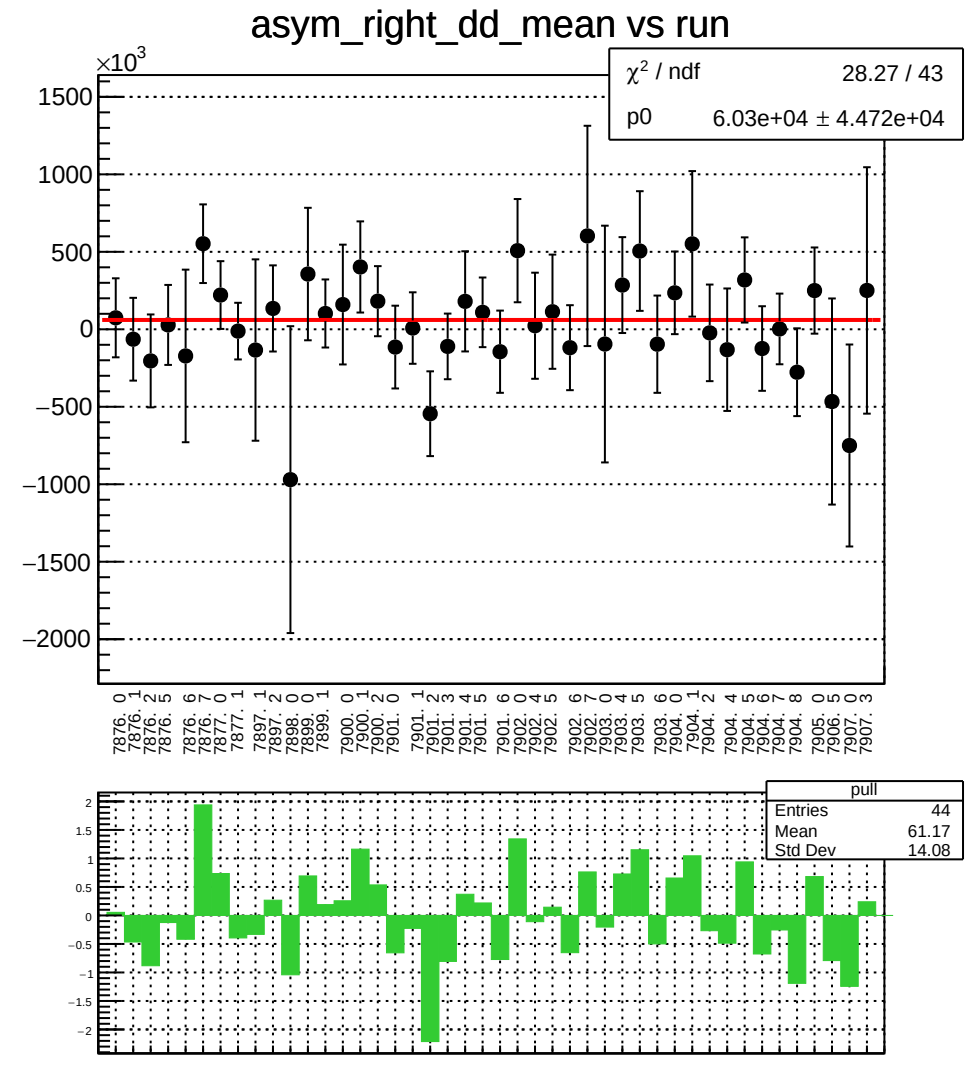

pull1D
Entries 44
Mean −0.01312
Std Dev 0.8059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

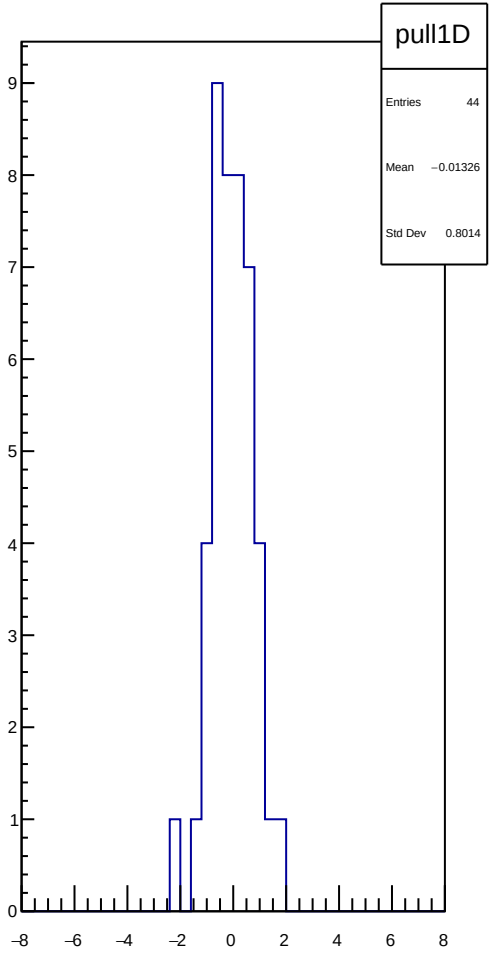

reg_asym_right_dd_rms vs run
×10^3
χ² / ndf 4.871e+05 / 67
p0 2.89e+04 ± 31.4
1000
900
800
700
600
500
400
300
200
100

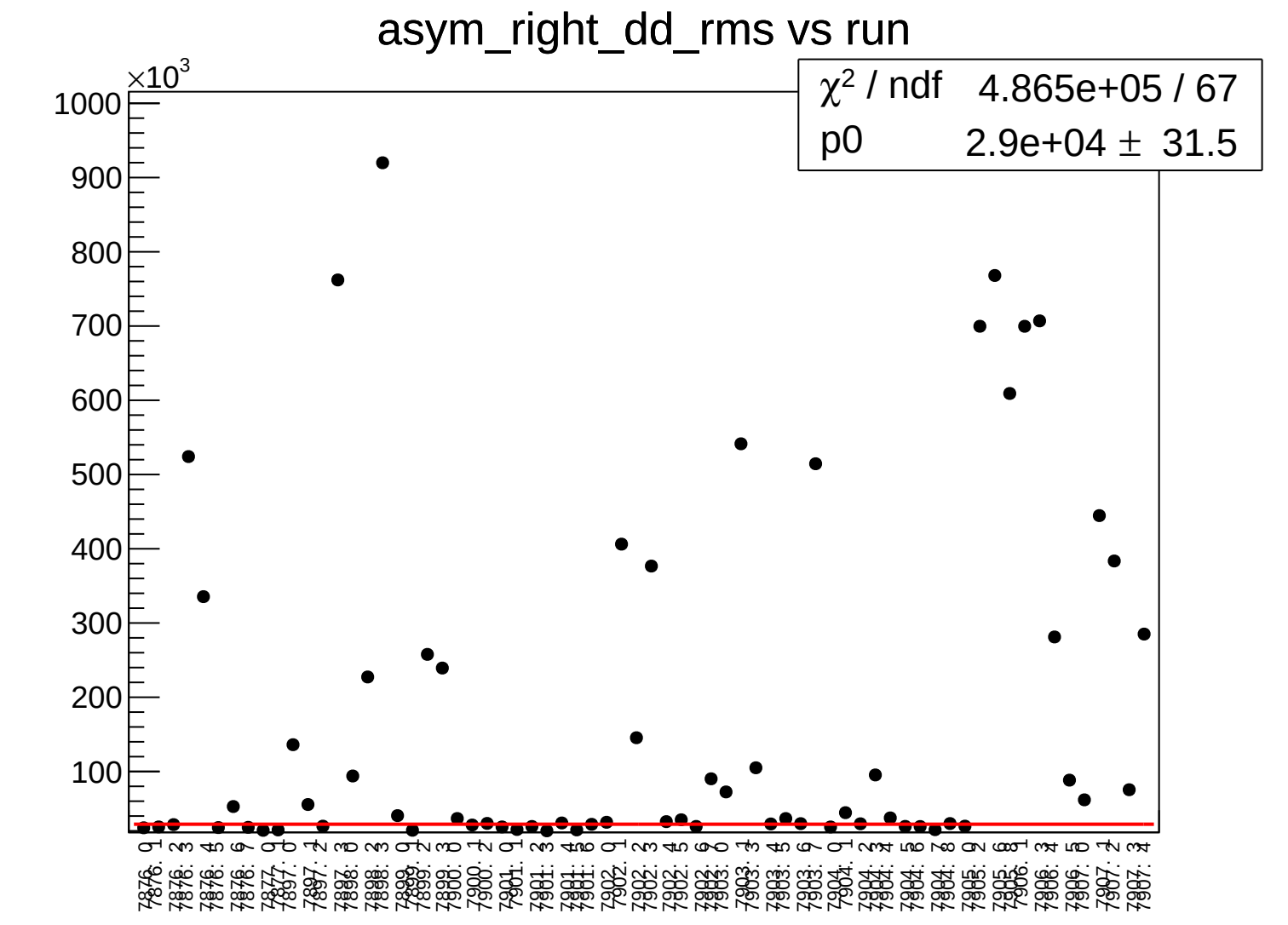

asym_right_dd_correction_mean vs run
χ² / ndf 64.98 / 74
p0 563.1 ± 2692
×10³
pull
Entries 75
Mean −369.5
Std Dev 402.8

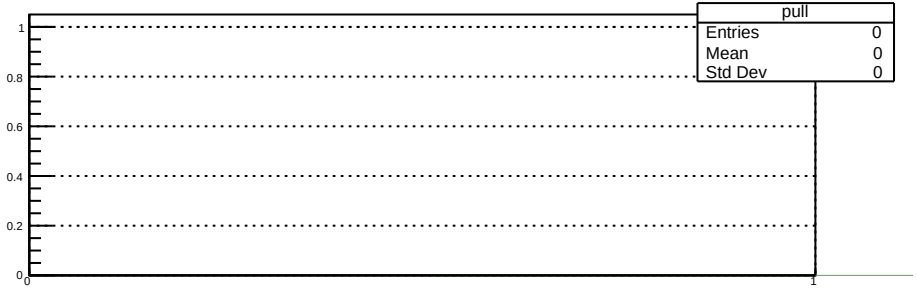

pull1D
Entries 75
Mean −0.003112
Std Dev 0.9308

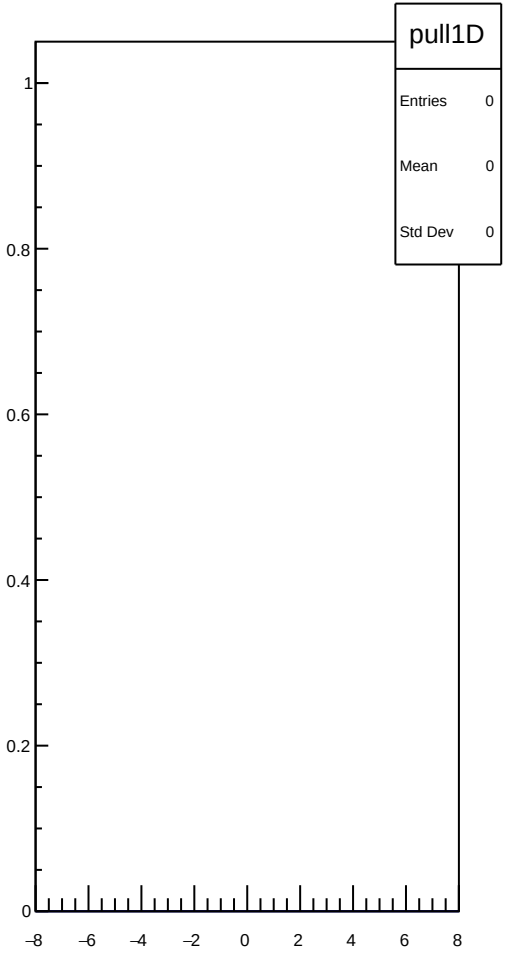

asym_right_dd_correction_rms vs run
×10^3
χ^2 / ndf 4.937e+05 / 77
p0 1925 ± 1.904
600
500
400
300
200
100

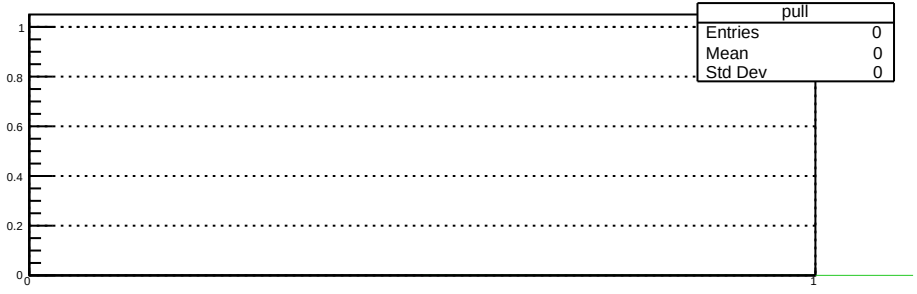

asym_right_dd_mean vs run
×10^3
χ² / ndf 28.27 / 43
p0 6.03e+04 ± 4.472e+04
1500
1000
500
0
−500
−1000
−1500
−2000
7876. 0
7876. 1
7876. 2
7876. 5
7876. 6
7876. 7
7877. 0
7877. 1
7897. 1
7897. 2
7898. 0
7899. 0
7899. 1
7900. 0
7900. 1
7900. 2
7901. 0
7901. 1
7901. 2
7901. 3
7901. 4
7901. 5
7901. 6
7902. 0
7902. 4
7902. 5
7902. 6
7902. 7
7903. 0
7903. 4
7903. 5
7903. 6
7904. 0
7904. 1
7904. 2
7904. 4
7904. 5
7904. 6
7904. 7
7904. 8
7905. 0
7906. 5
7907. 0
7907. 3
pull
Entries 44
Mean 61.17
Std Dev 14.08
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

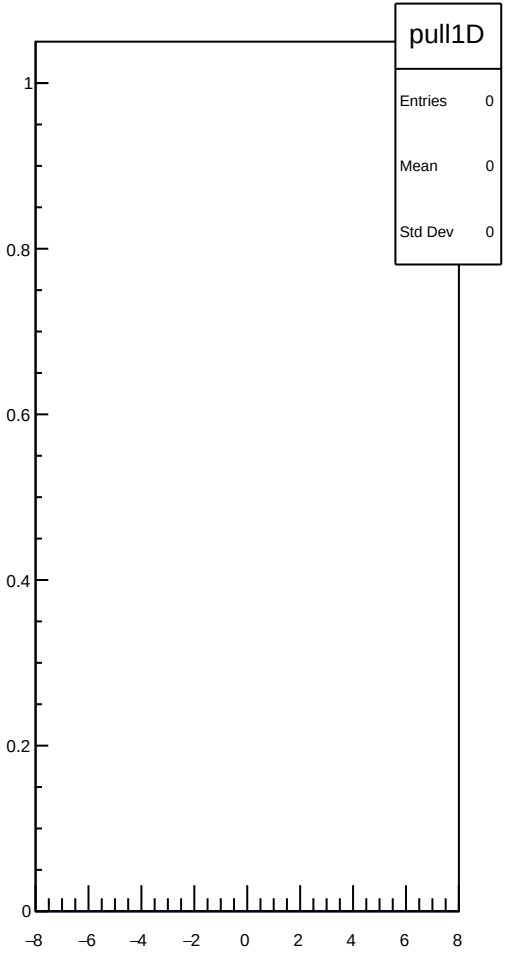

pull1D
Entries 44
Mean −0.01326
Std Dev 0.8014
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

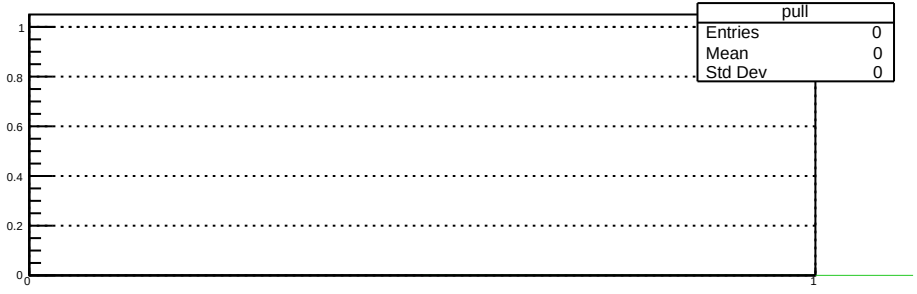

asym_right_dd_rms vs run
×10^3
1000
900
800
700
600
500
400
300
200
100
χ² / ndf 4.865e+05 / 67
p0 2.9e+04 ± 31.5

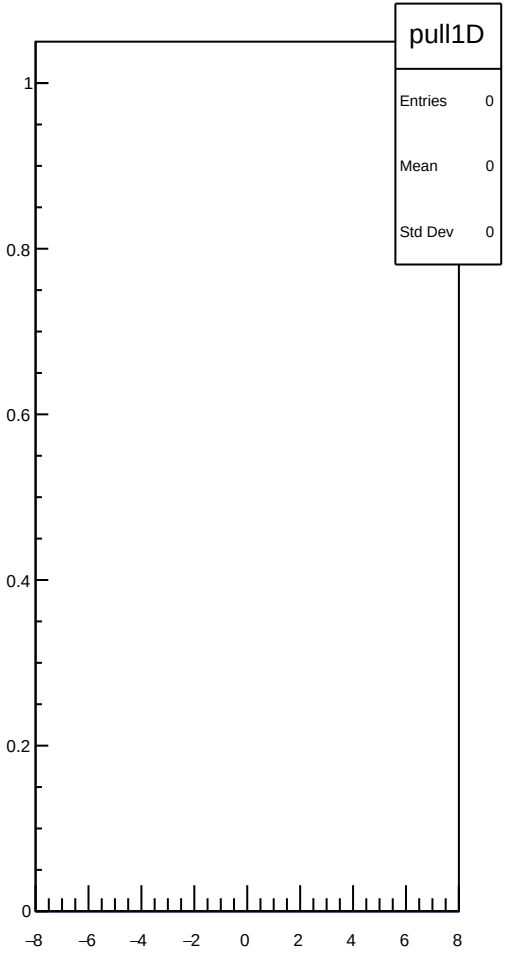

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

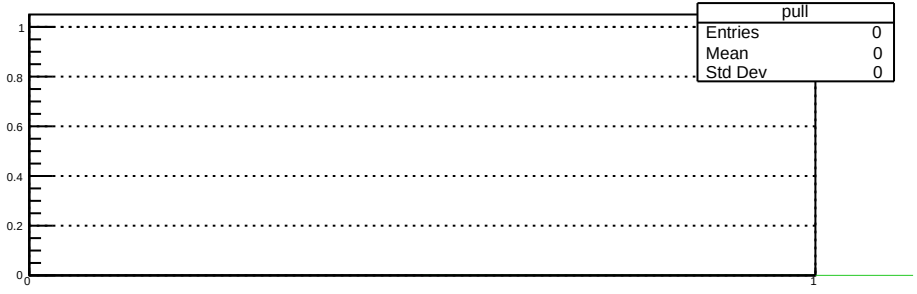

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

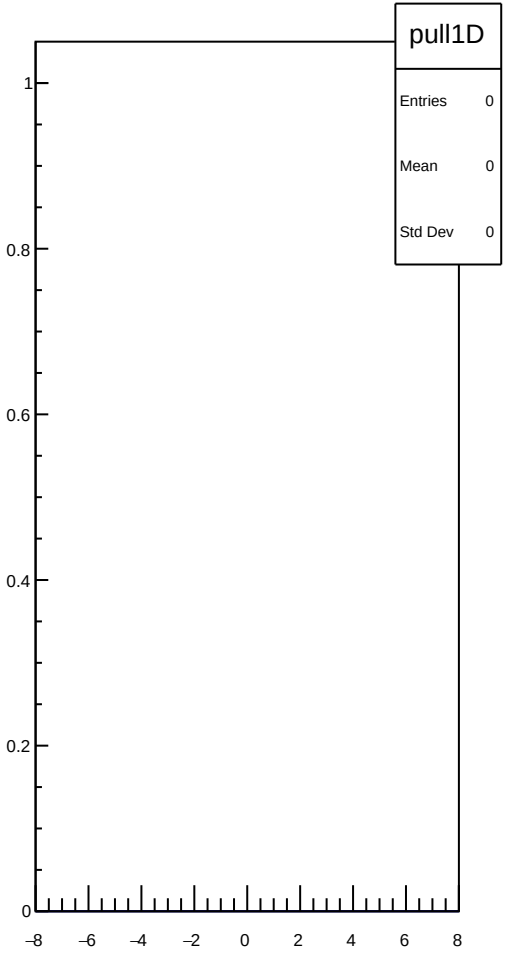

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

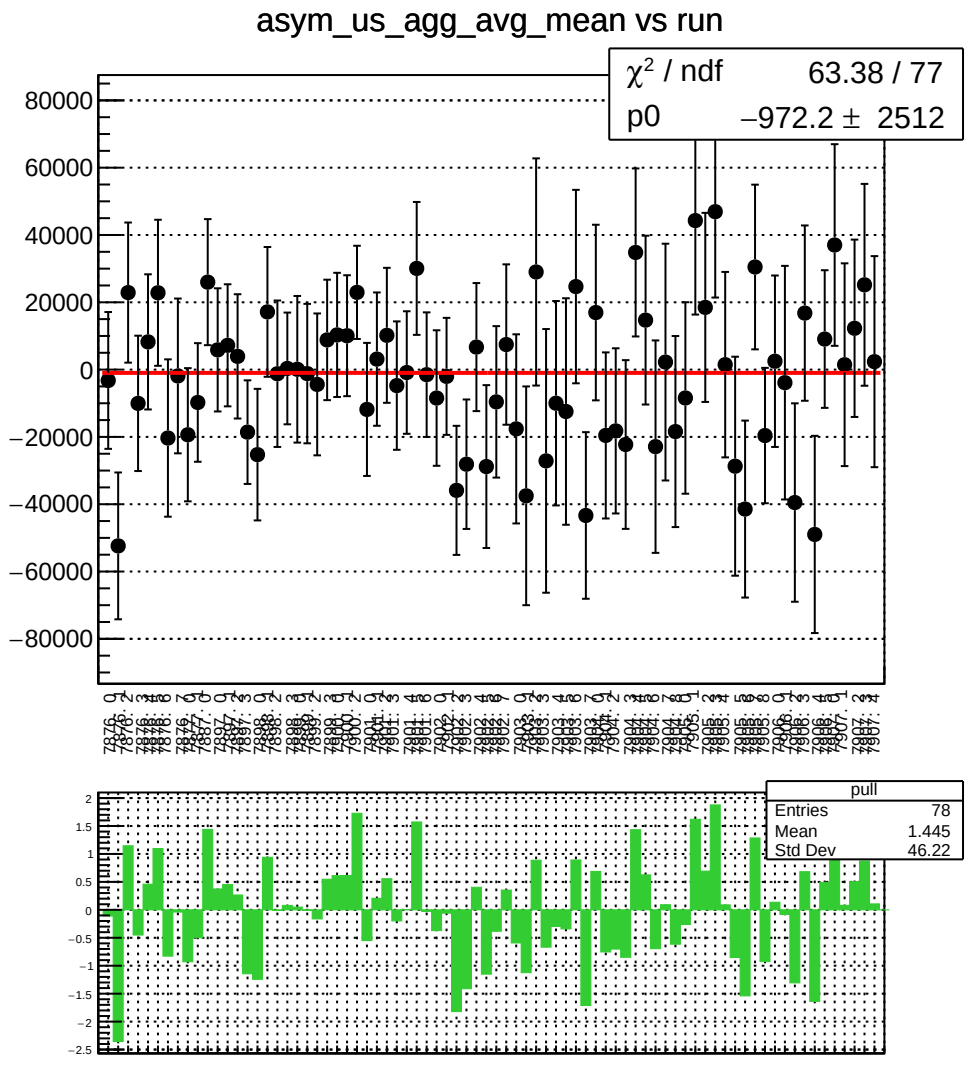

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

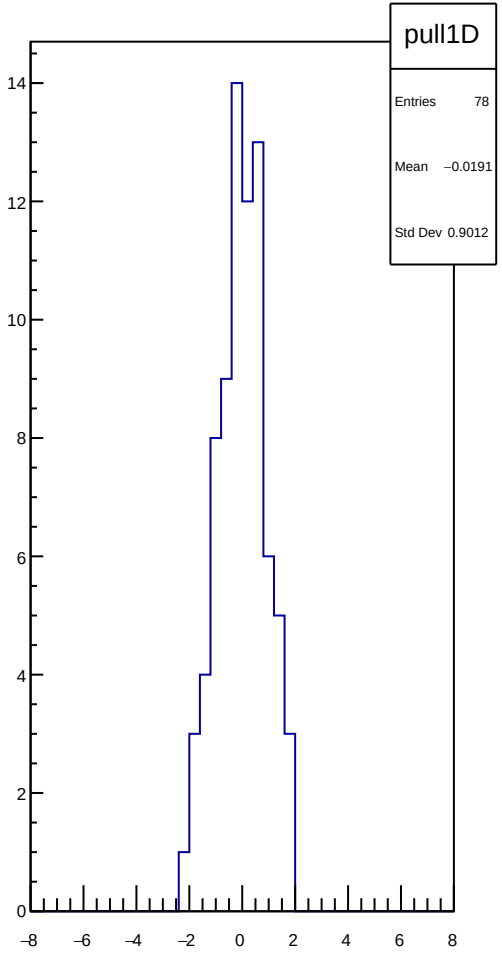

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

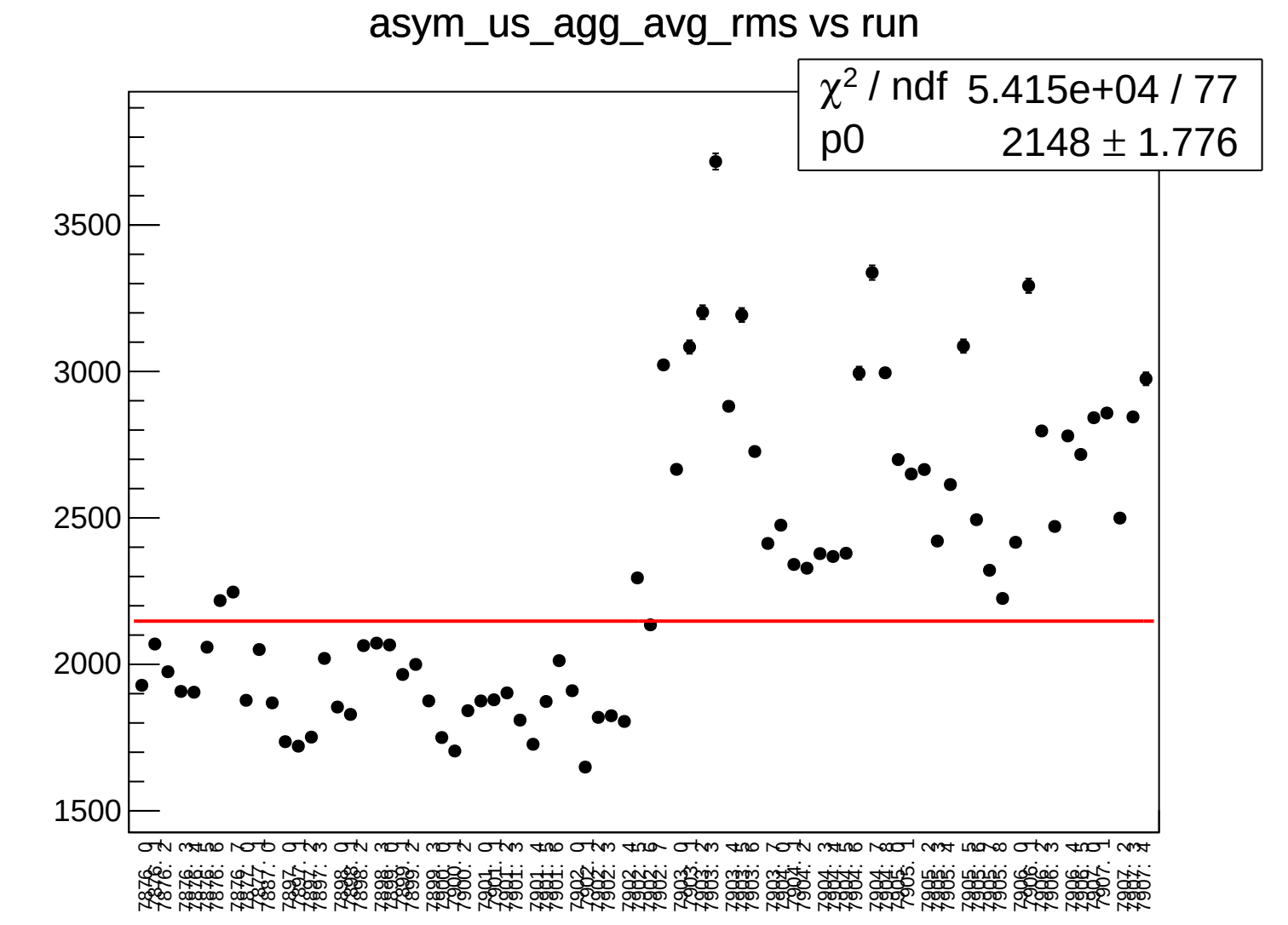

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

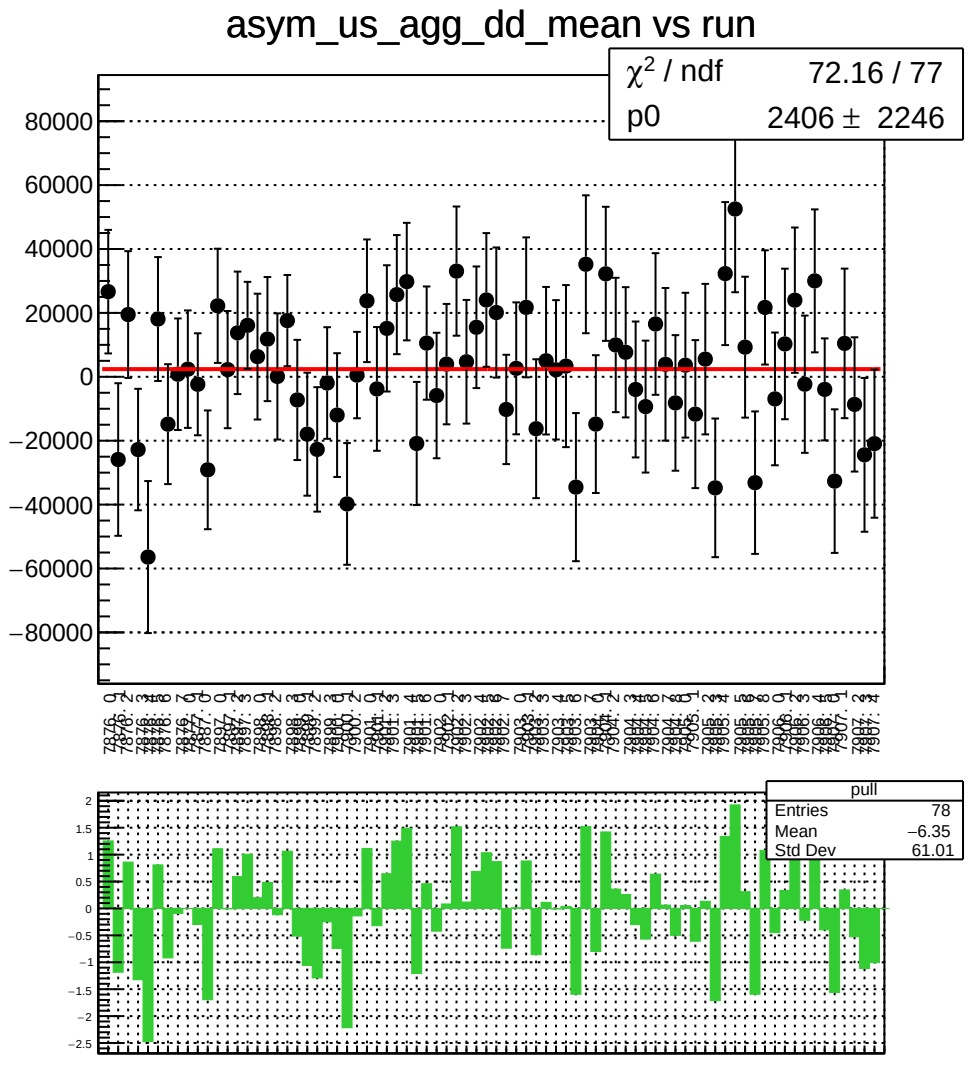

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

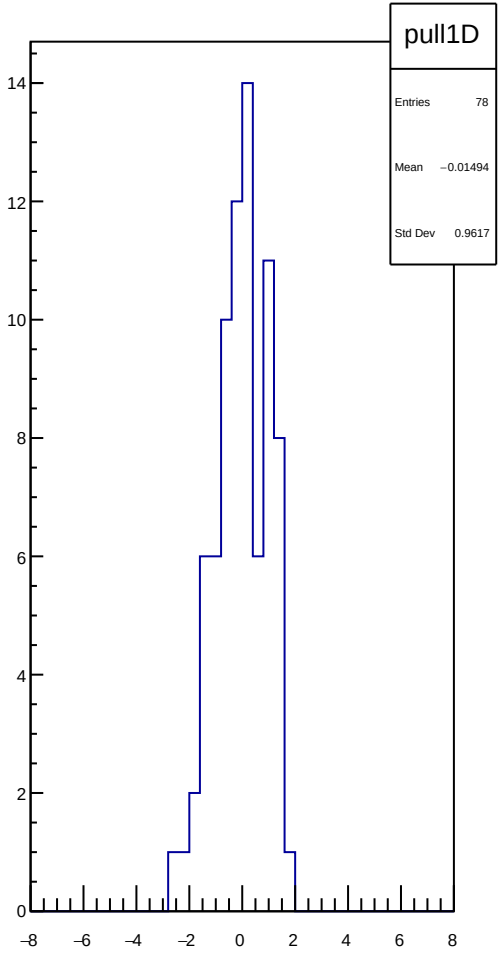

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

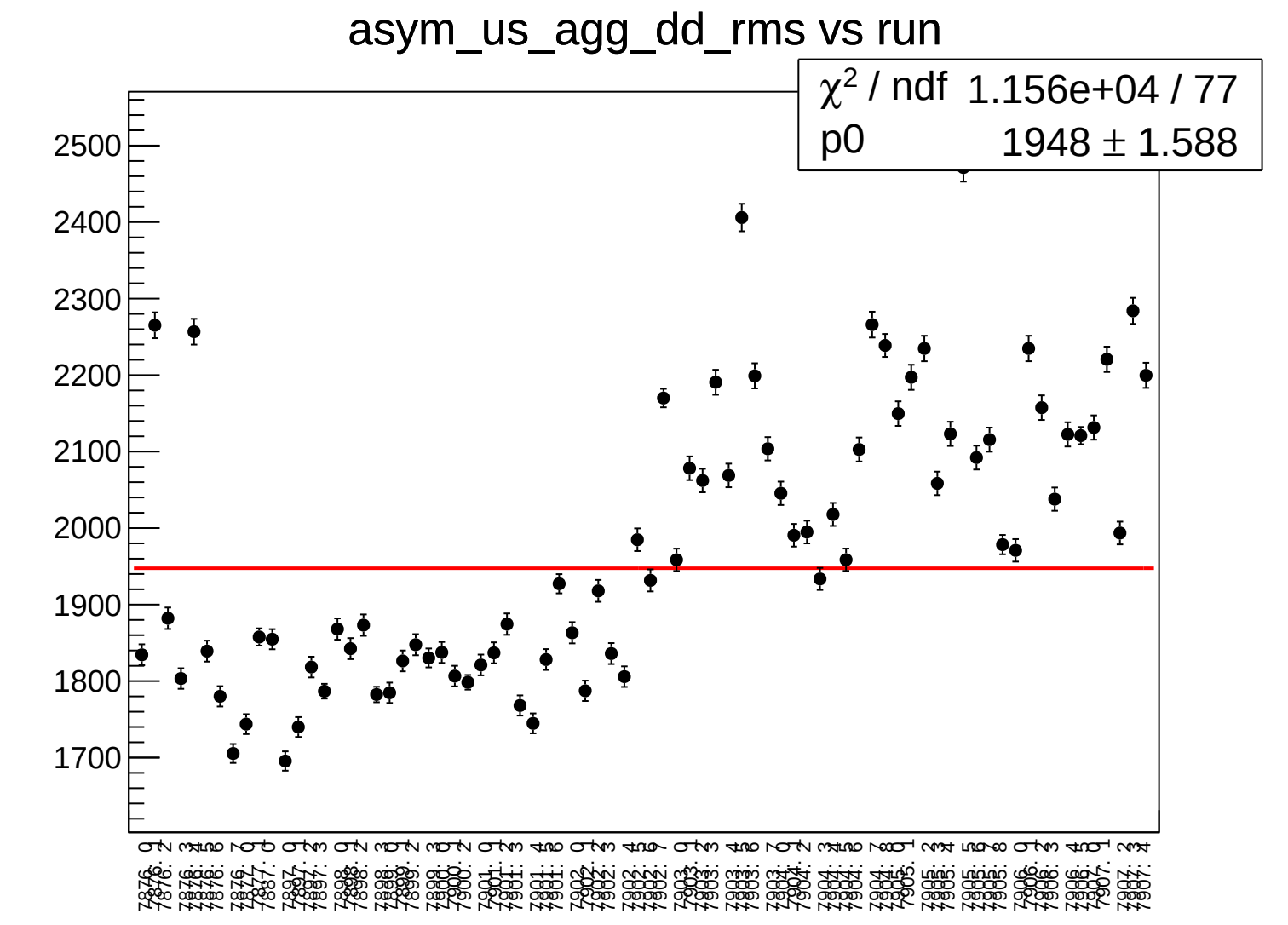

asym_us_agg_avg_mean vs run
χ² / ndf 63.38 / 77
p0 −972.2 ± 2512
pull
Entries 78
Mean 1.445
Std Dev 46.22

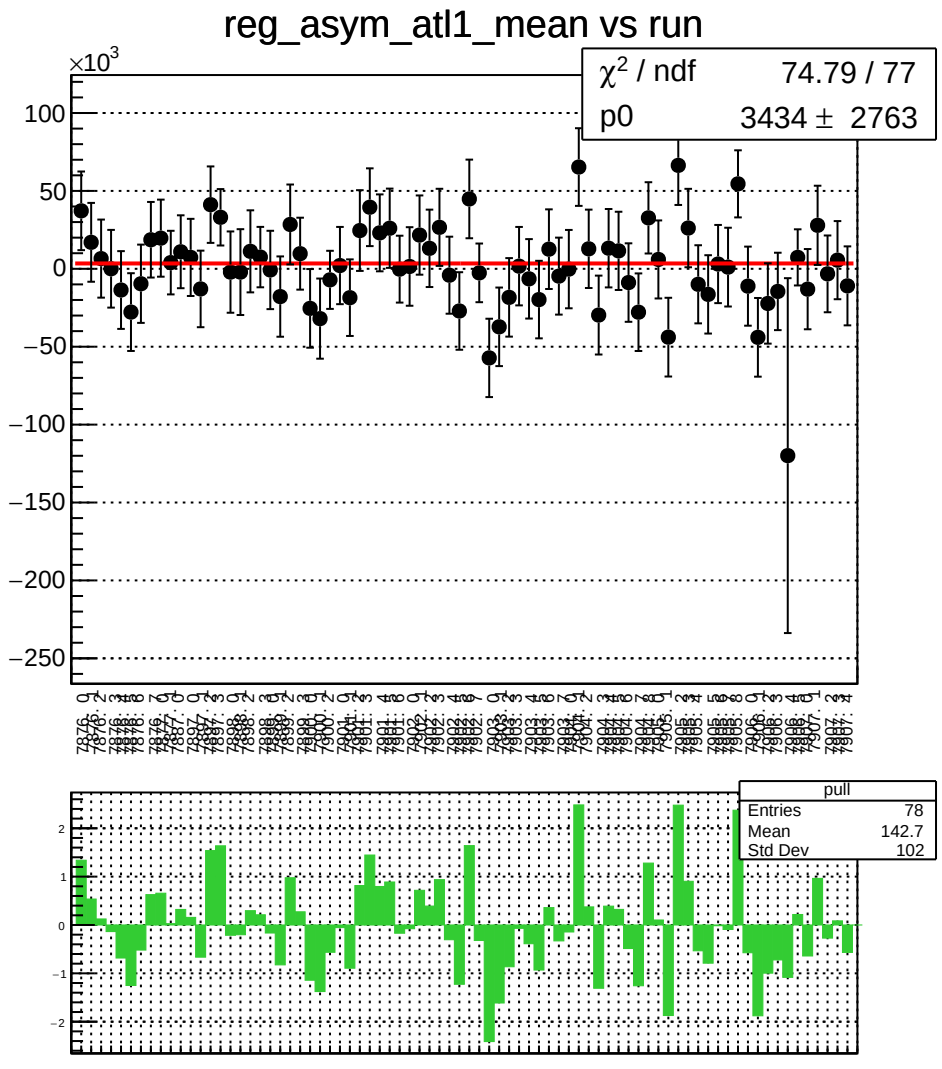

pull1D
Entries 78
Mean −0.0191
Std Dev 0.9012

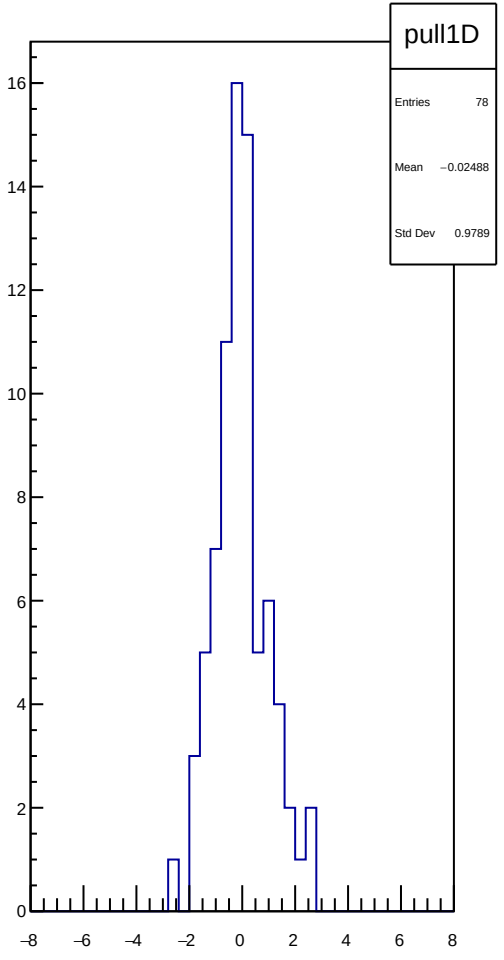

asym_us_agg_avg_rms vs run
χ² / ndf 5.415e+04 / 77
p0 2148 ± 1.776
3500
3000
2500
2000
1500

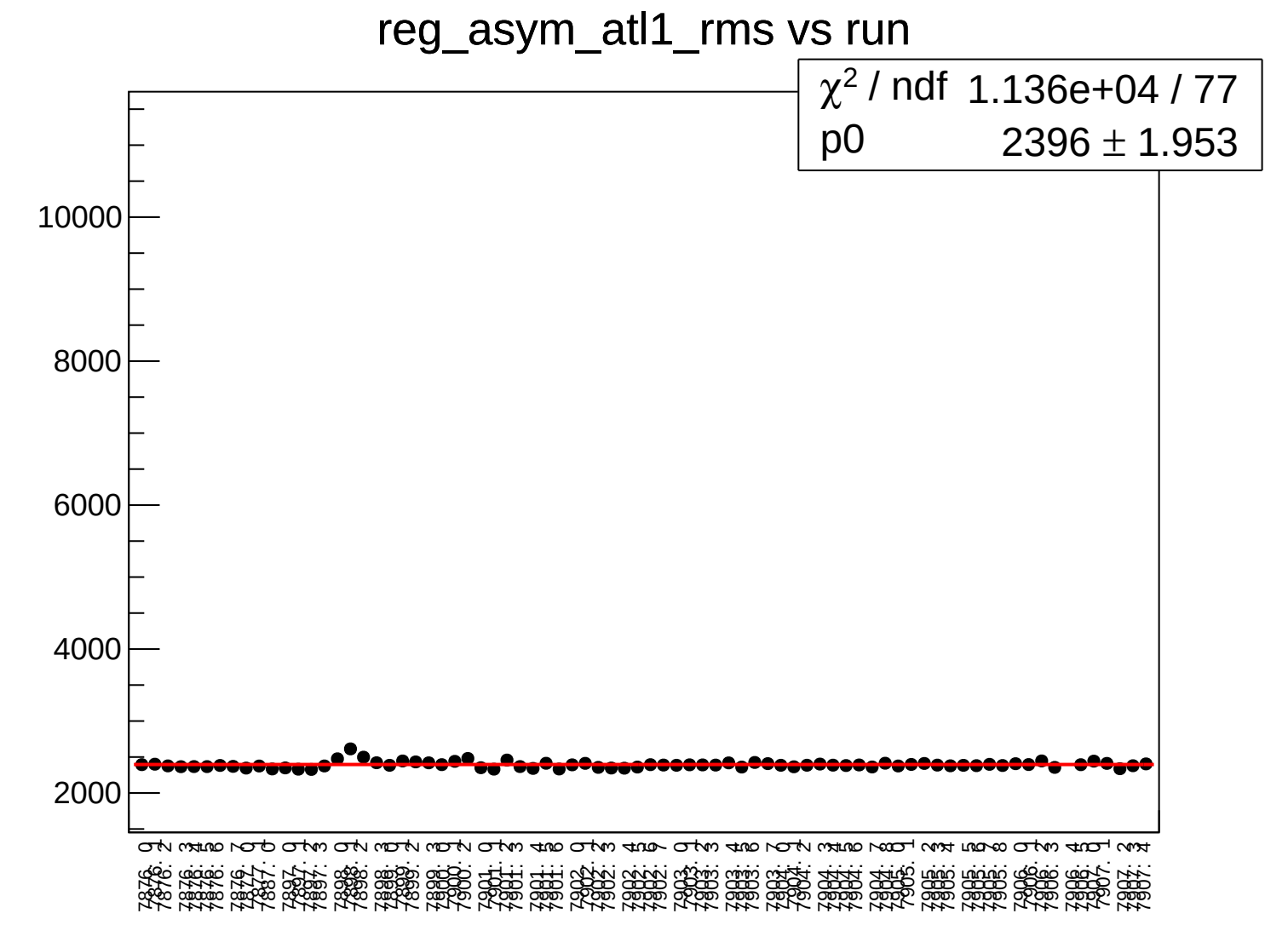

asym_us_agg_dd_mean vs run
χ² / ndf 72.16 / 77
p0 2406 ± 2246
pull
Entries 78
Mean −6.35
Std Dev 61.01

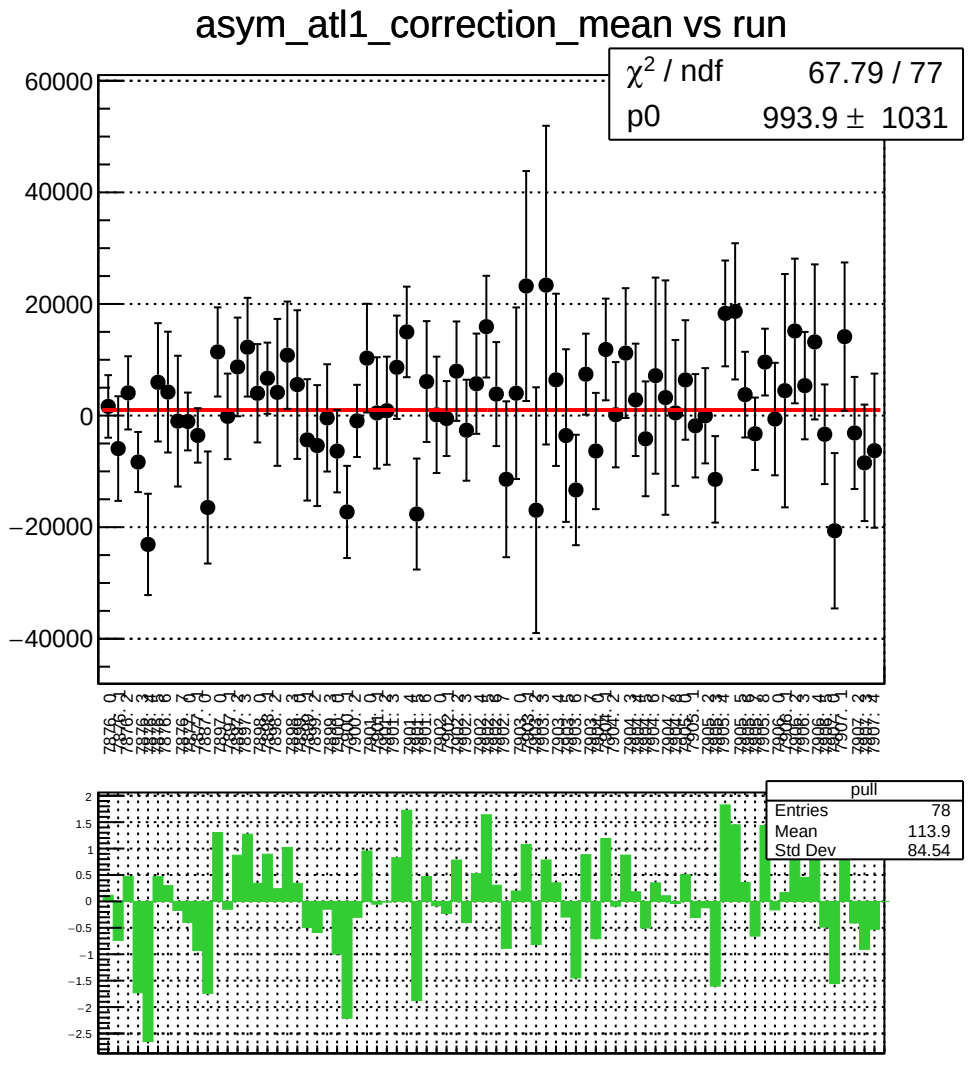

pull1D
Entries 78
Mean −0.01494
Std Dev 0.9617

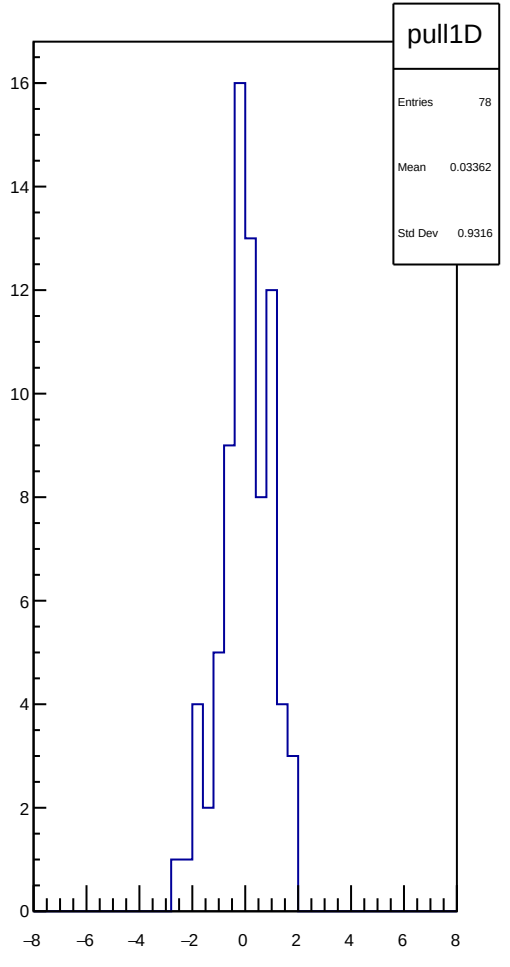

asym_us_agg_dd_rms vs run
χ² / ndf 1.156e+04 / 77
p0 1948 ± 1.588
2500
2400
2300
2200
2100
2000
1900
1800
1700

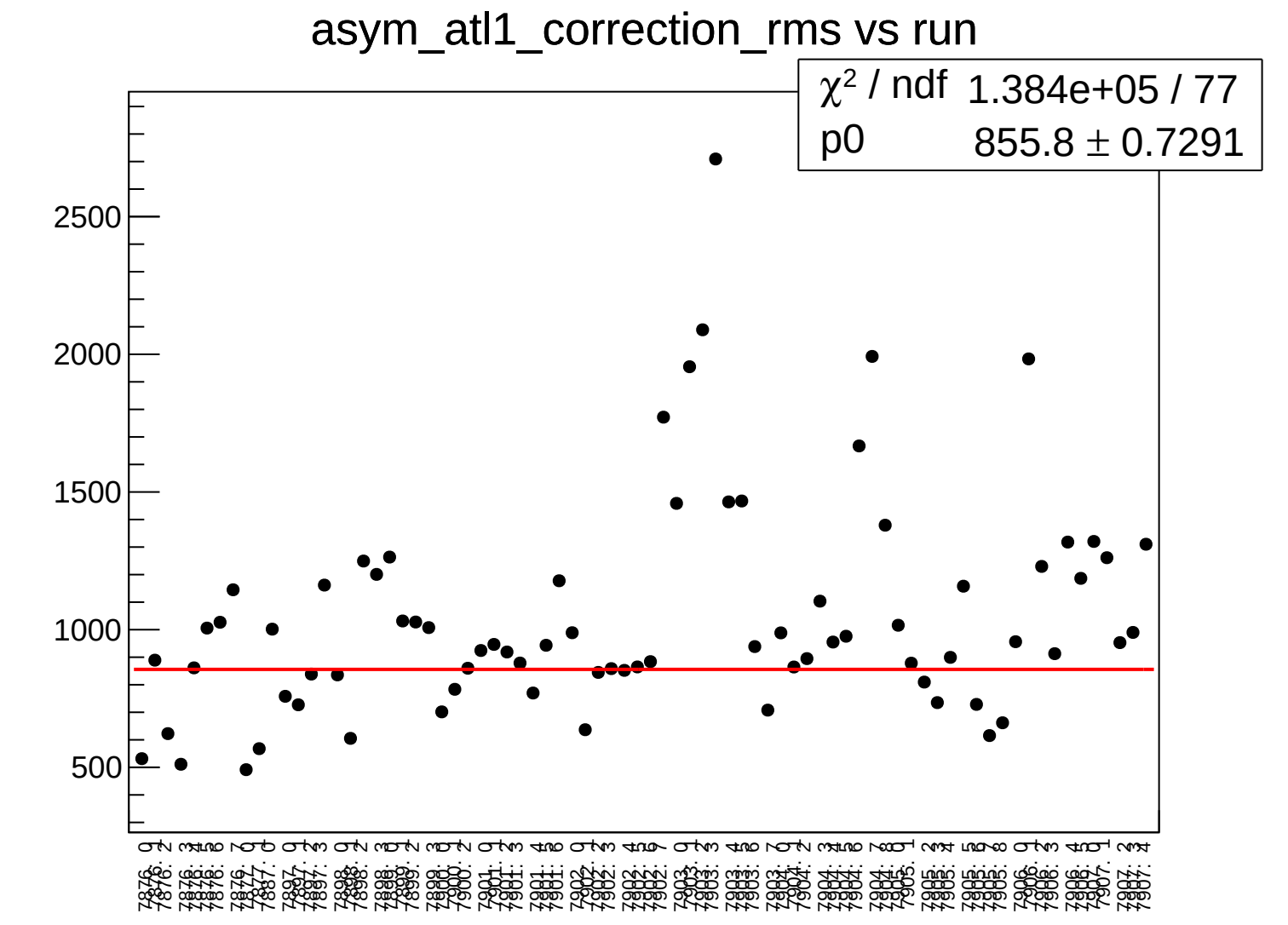

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 74.79 / 77
p0 3434 ± 2763
pull
Entries 78
Mean 142.7
Std Dev 102

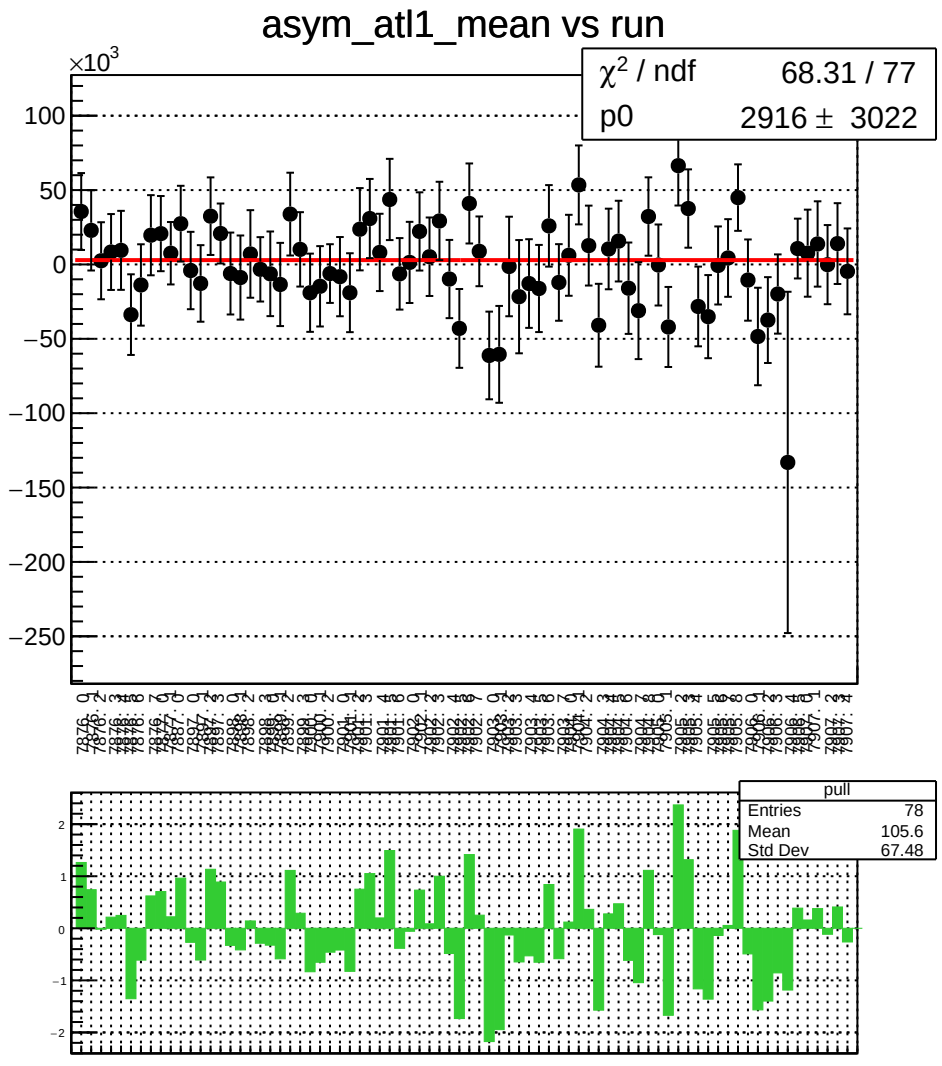

pull1D
Entries 78
Mean −0.02488
Std Dev 0.9789

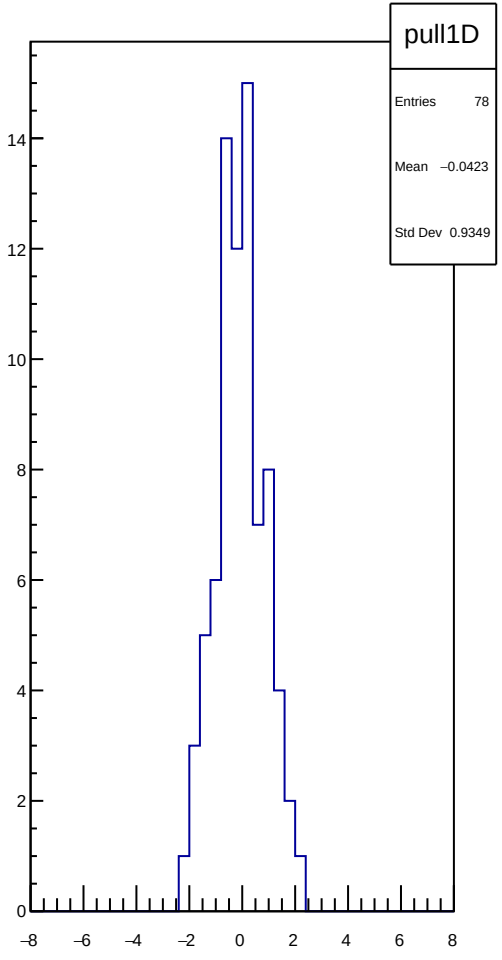

reg_asym_atl1_rms vs run
χ² / ndf 1.136e+04 / 77
p0 2396 ± 1.953
10000
8000
6000
4000
2000

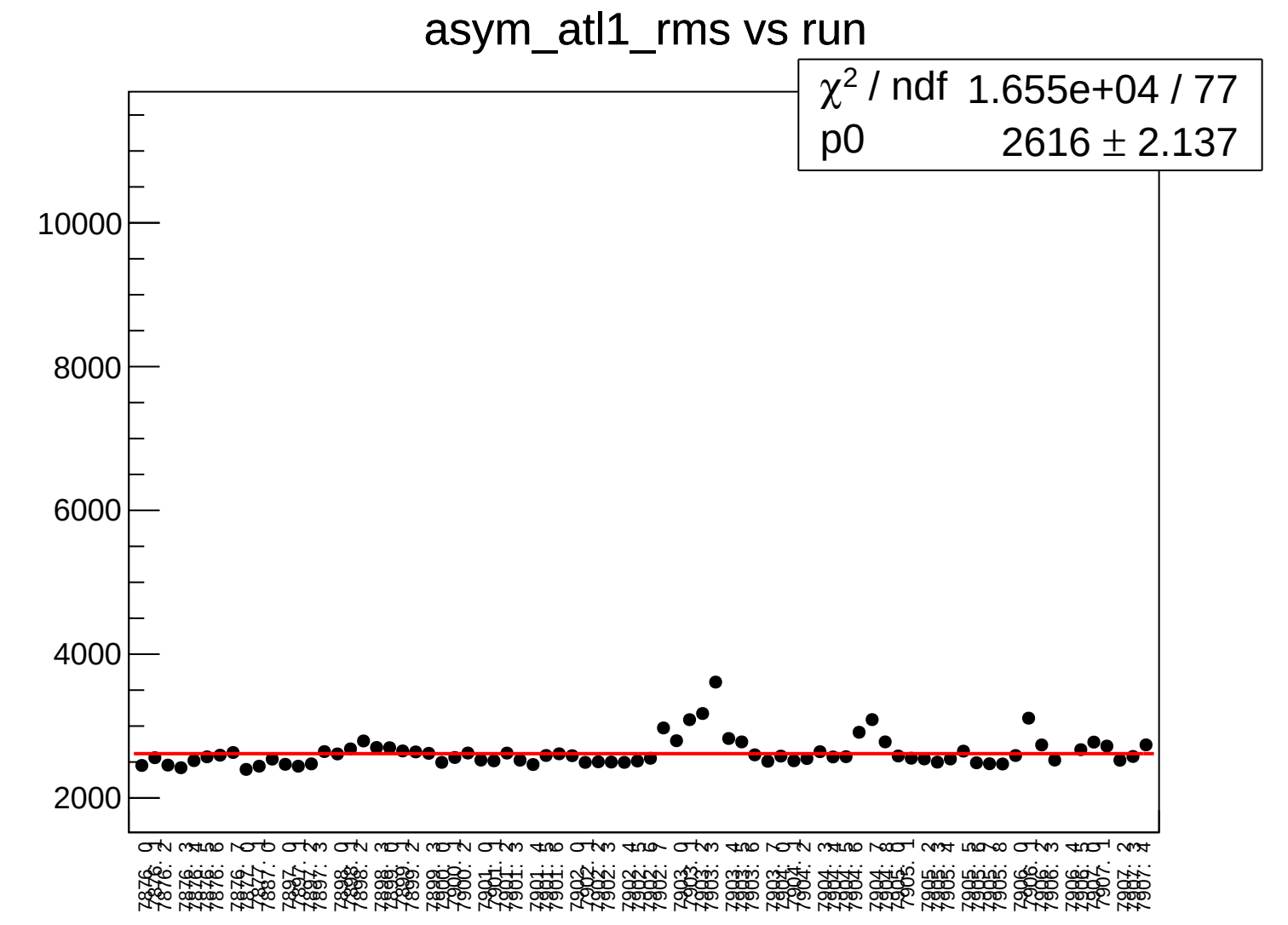

asym_atl1_correction_mean vs run
χ² / ndf 67.79 / 77
p0 993.9 ± 1031
pull
Entries 78
Mean 113.9
Std Dev 84.54

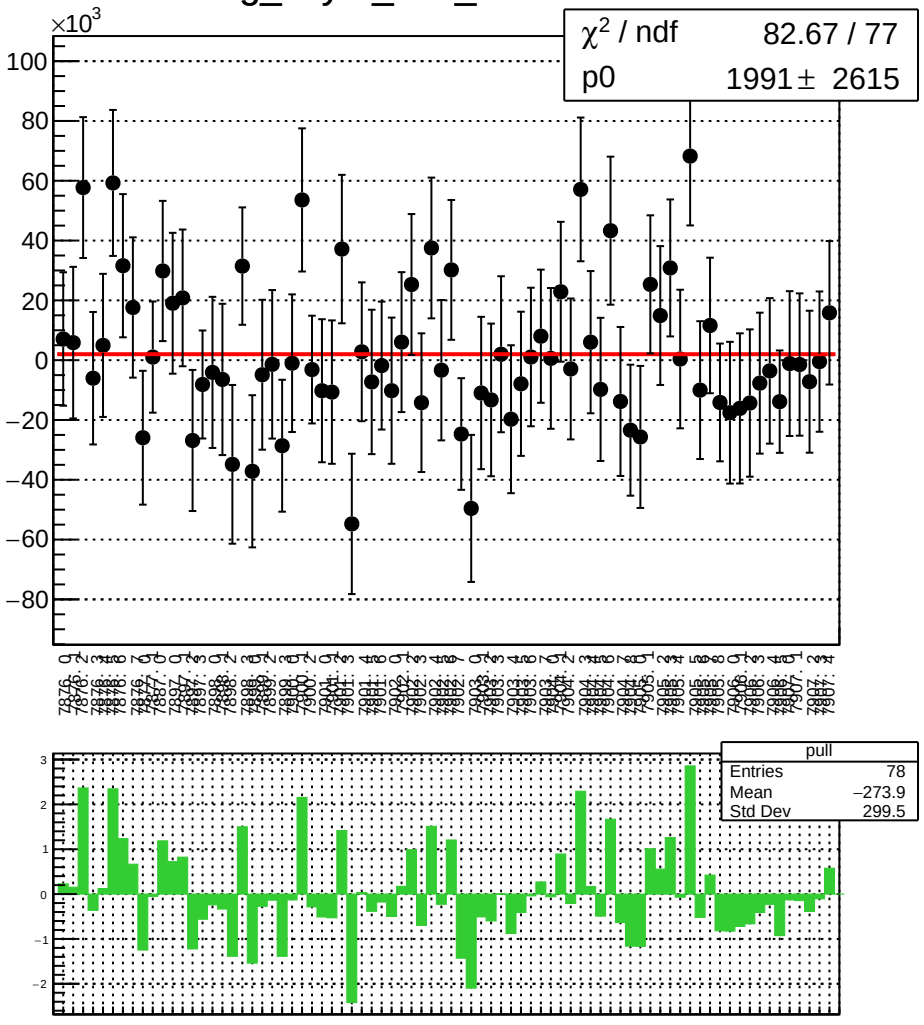

pull1D
Entries 78
Mean 0.03362
Std Dev 0.9316

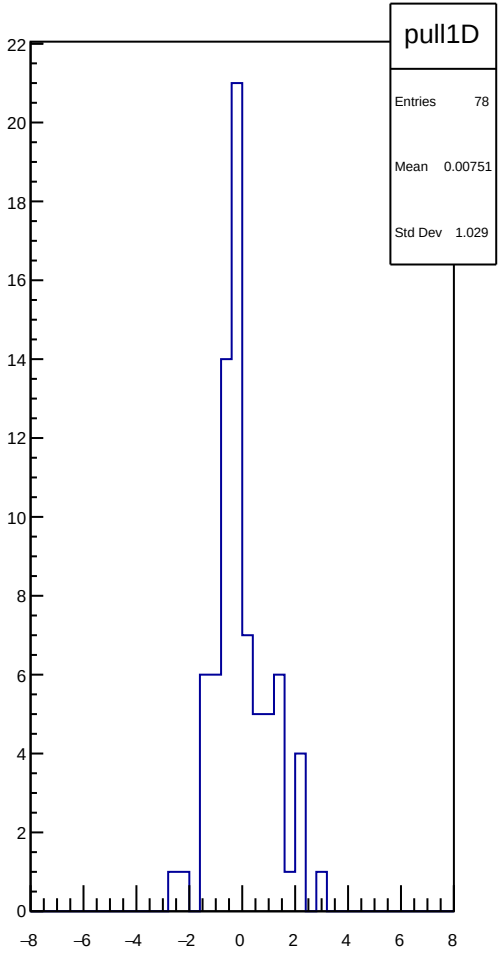

asym_atl1_correction_rms vs run
χ² / ndf 1.384e+05 / 77
p0 855.8 ± 0.7291
2500
2000
1500
1000
500

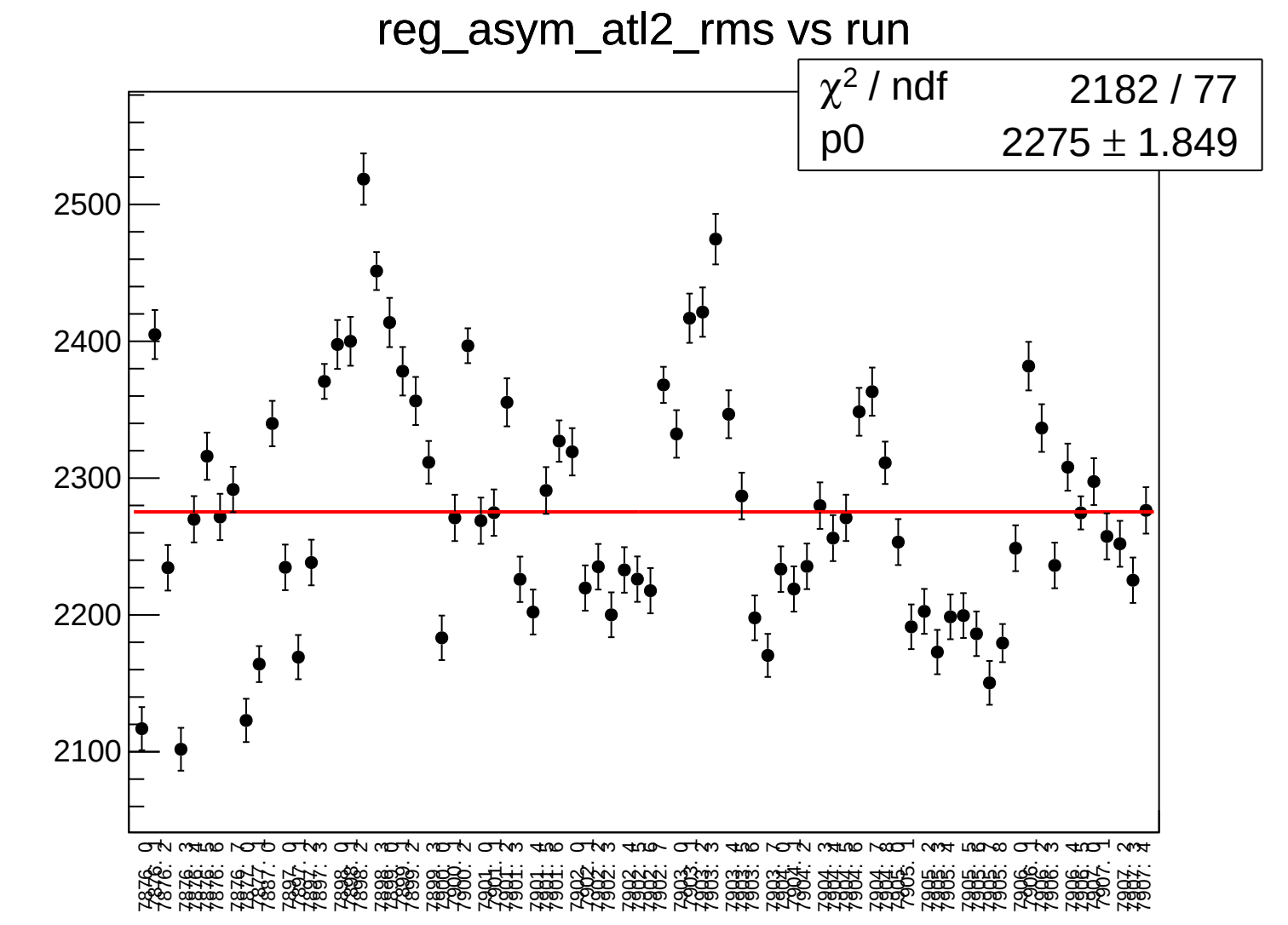

asym_atl1_mean vs run
χ² / ndf 68.31 / 77
p0 2916 ± 3022
pull
Entries 78
Mean 105.6
Std Dev 67.48

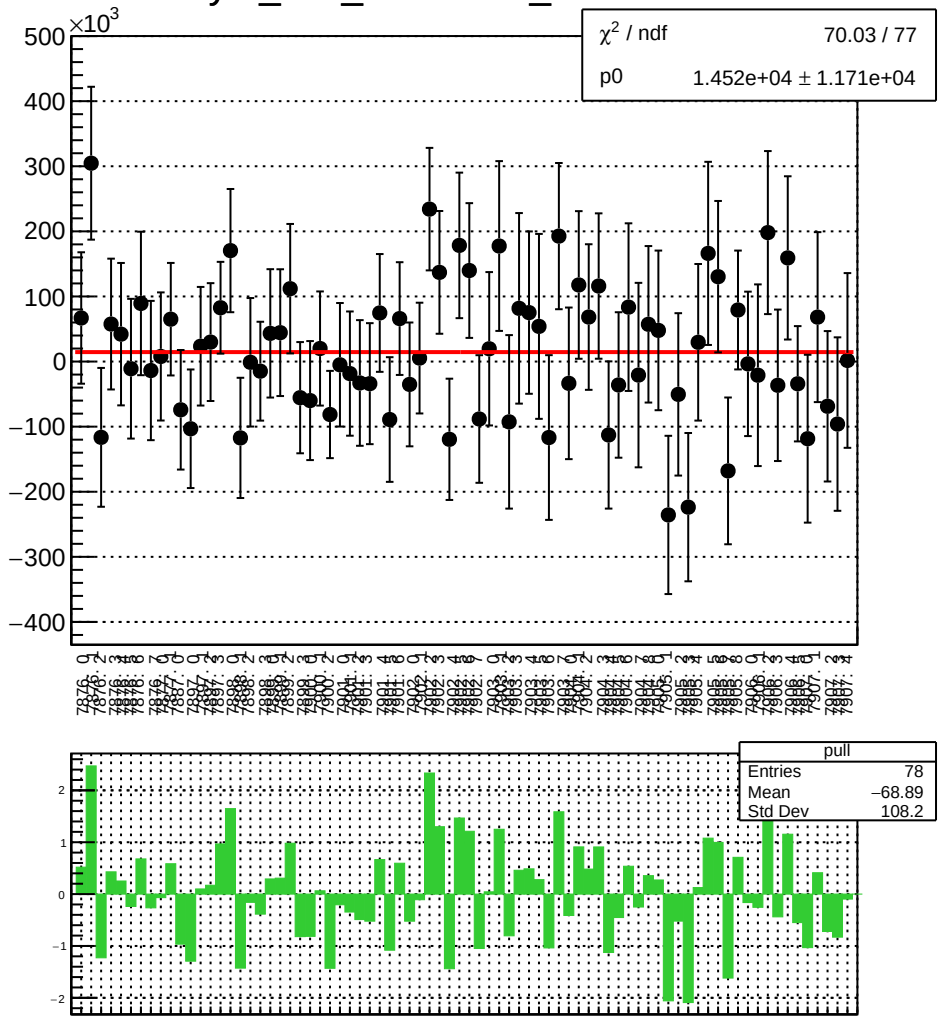

pull1D
Entries 78
Mean −0.0423
Std Dev 0.9349

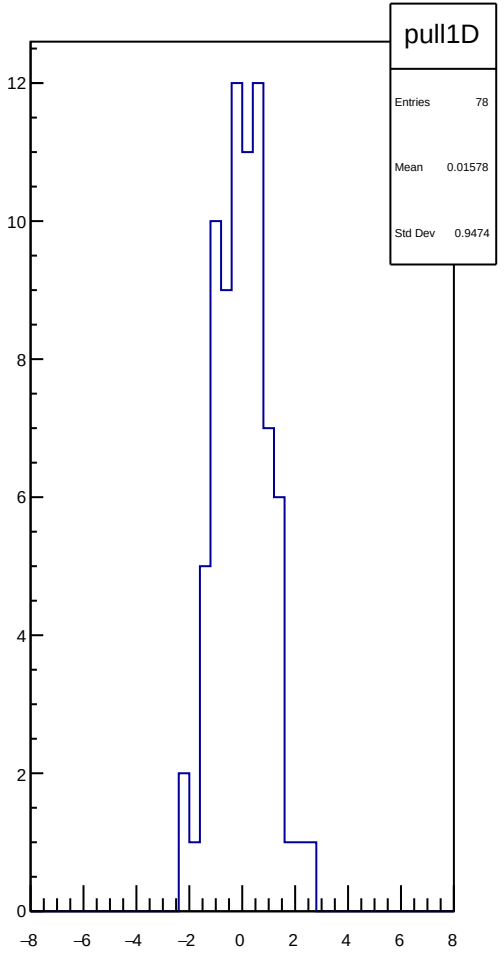

asym_atl1_rms vs run
χ² / ndf 1.655e+04 / 77
p0 2616 ± 2.137
10000
8000
6000
4000
2000

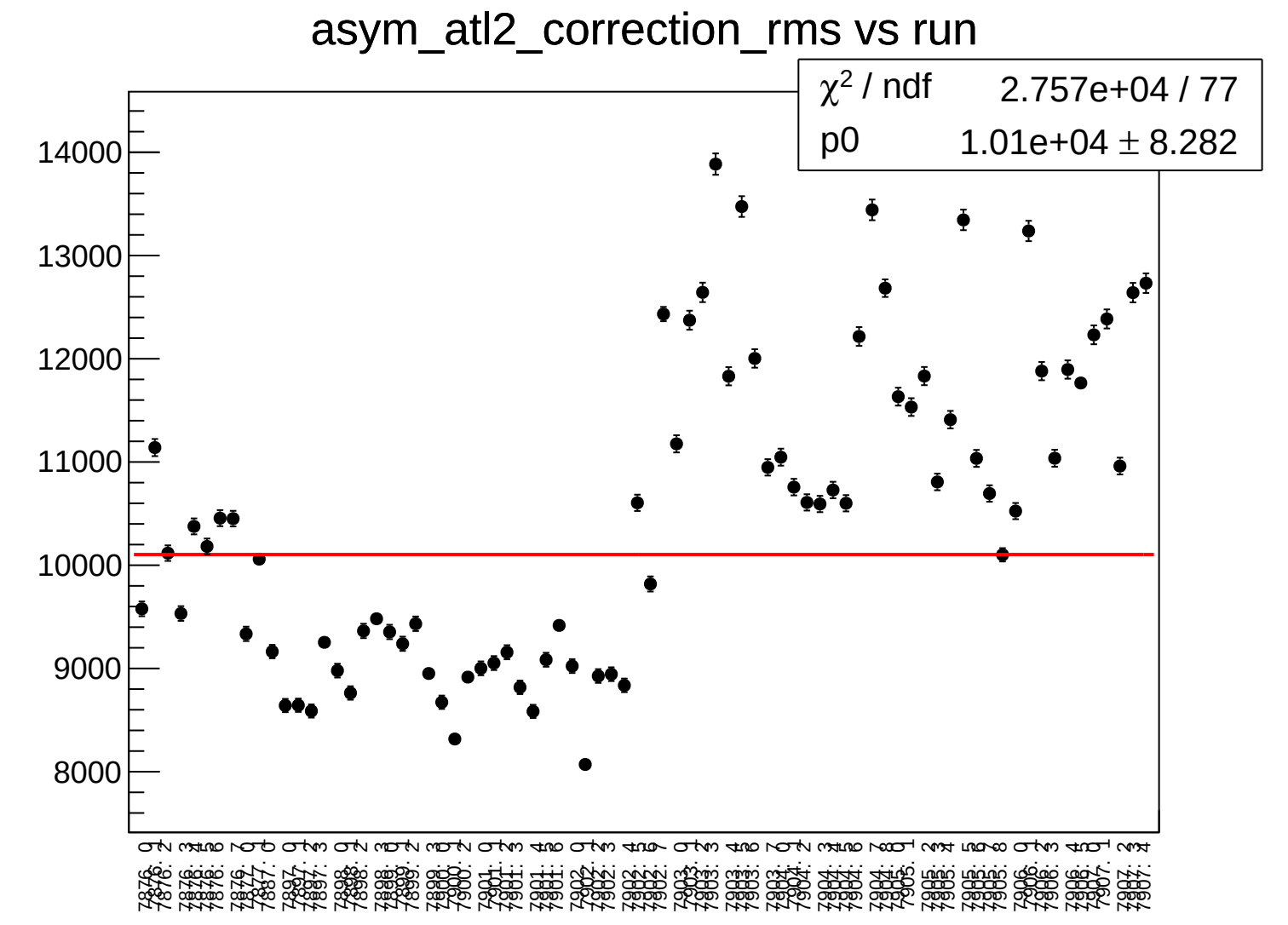

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 82.67 / 77
p0 1991 ± 2615
pull
Entries 78
Mean −273.9
Std Dev 299.5

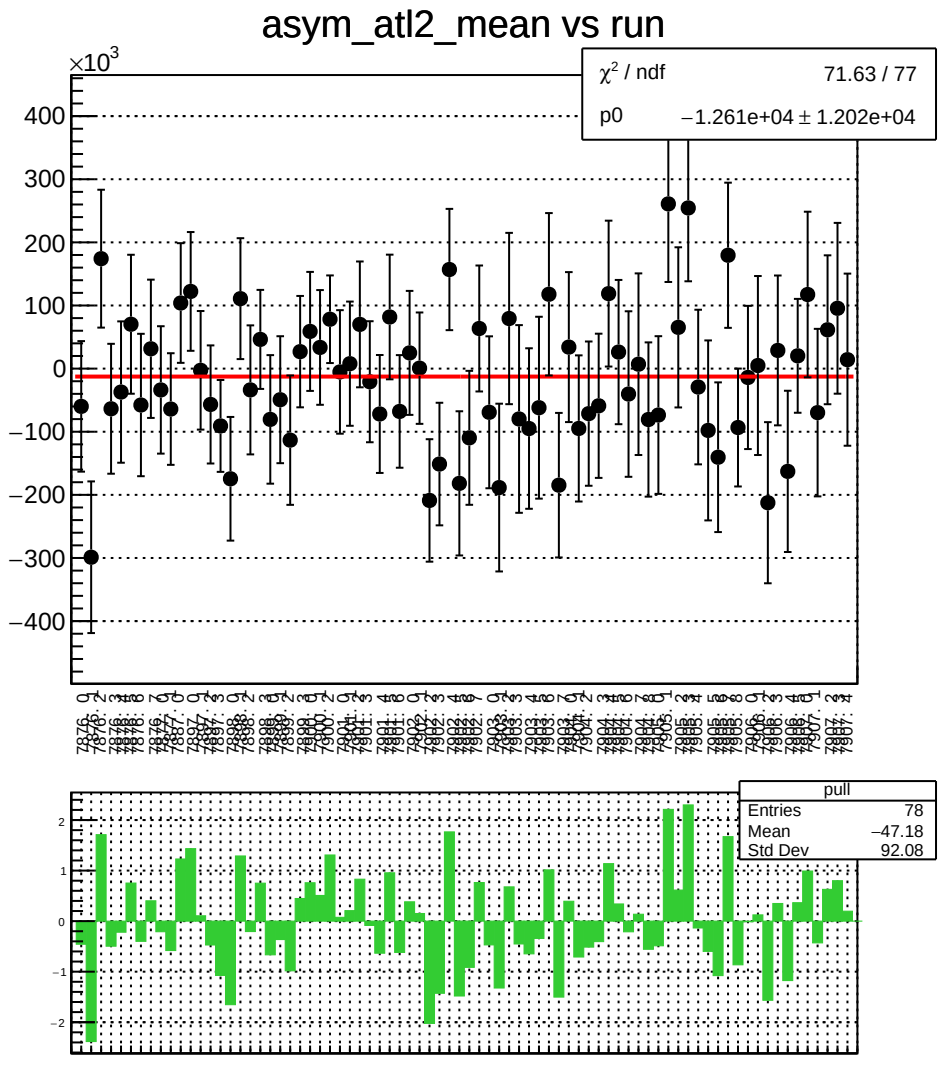

pull1D
Entries 78
Mean 0.00751
Std Dev 1.029

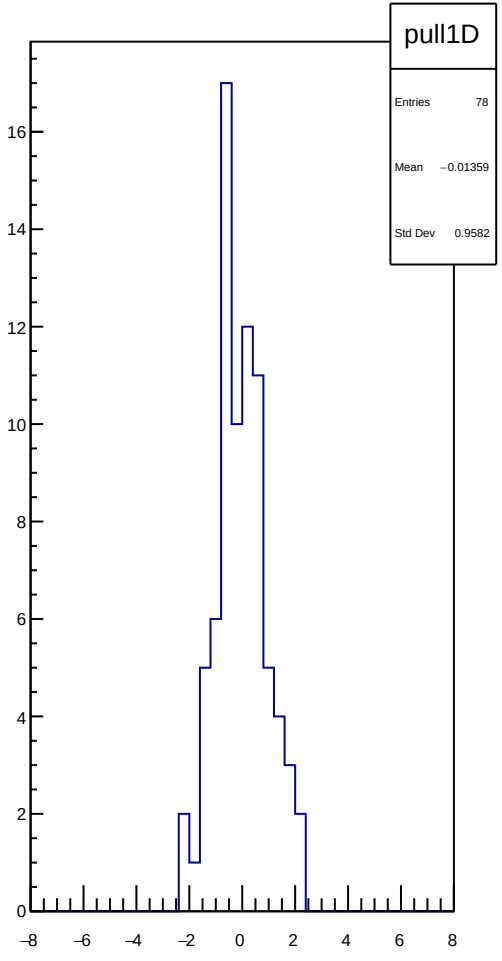

reg_asym_atl2_rms vs run
χ² / ndf 2182 / 77
p0 2275 ± 1.849
2500
2400
2300
2200
2100

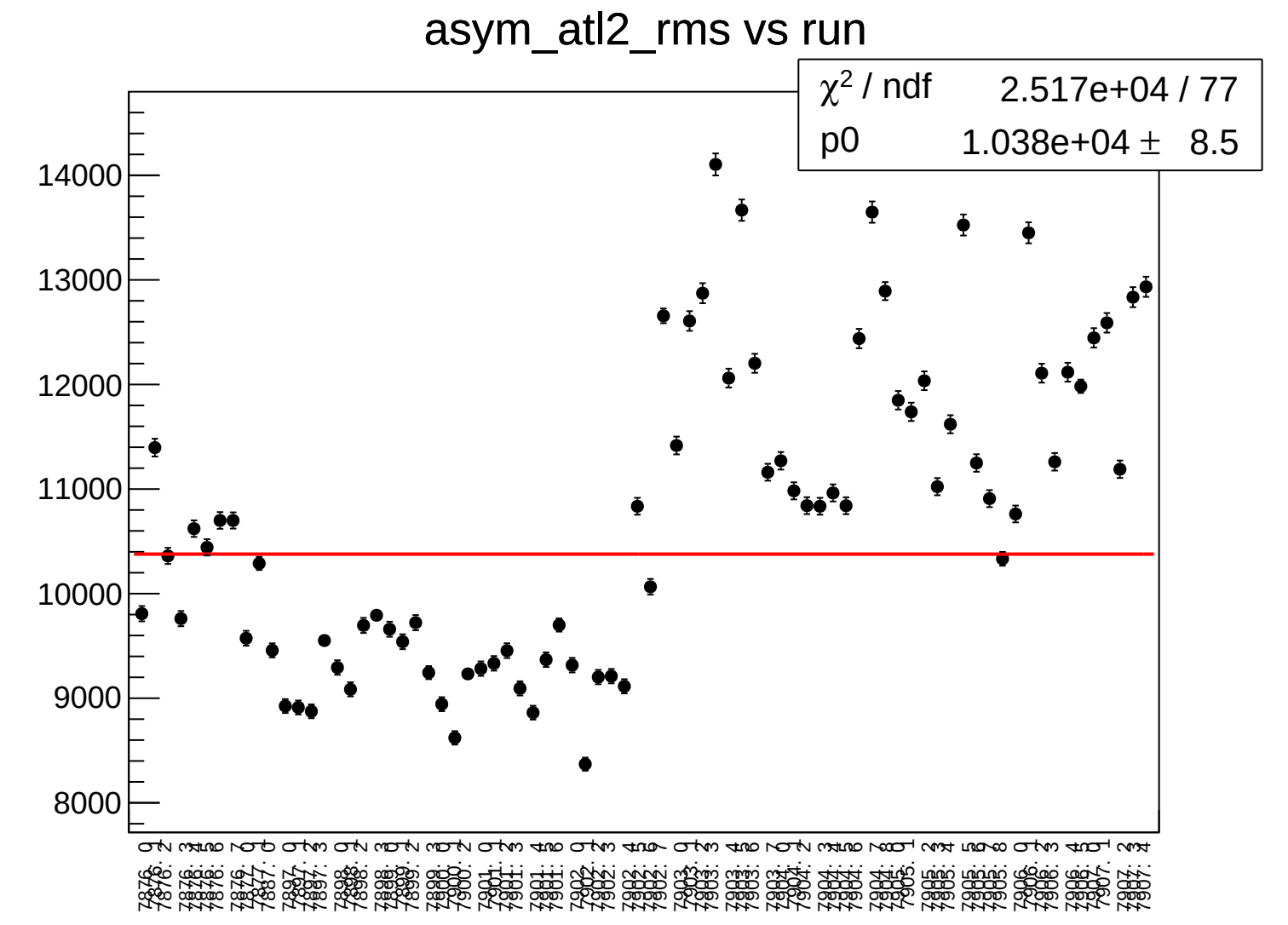

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 70.03 / 77
p0 1.452e+04 ± 1.171e+04
pull
Entries 78
Mean −68.89
Std Dev 108.2

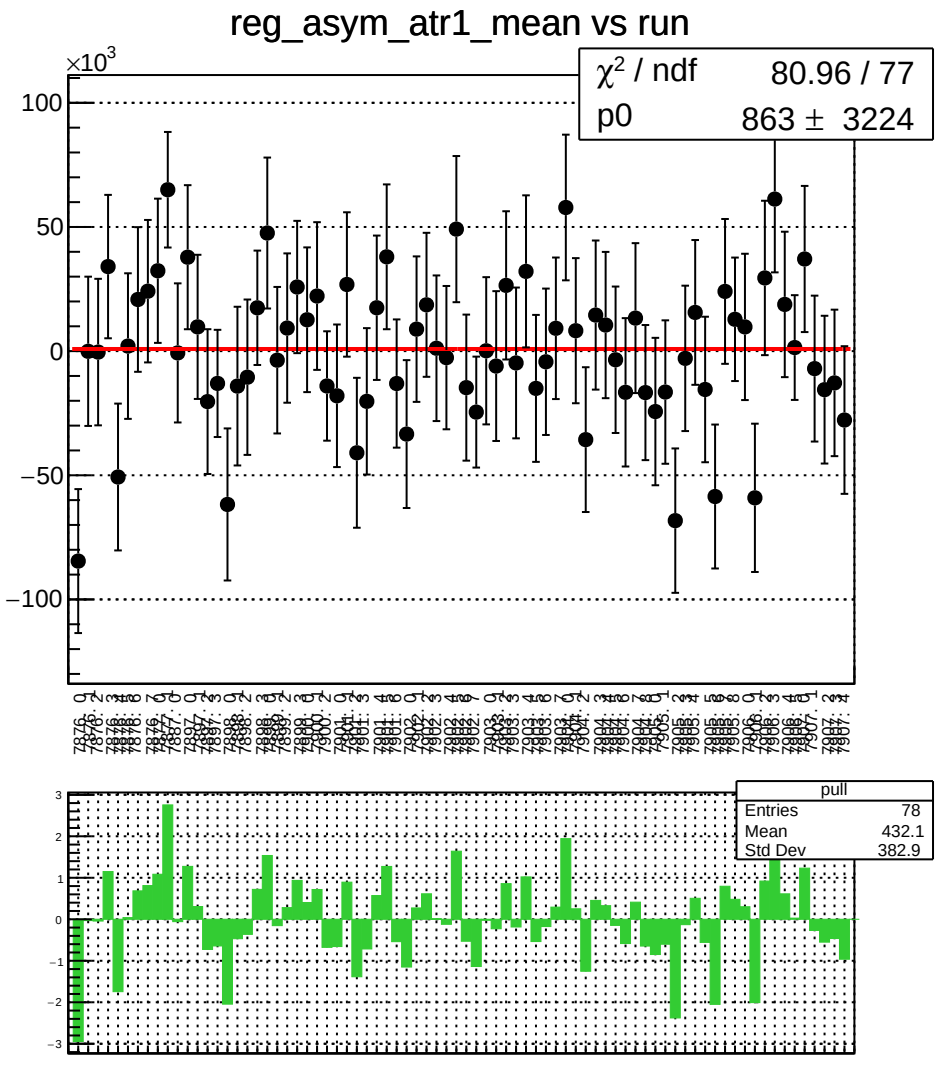

pull1D
Entries 78
Mean 0.01578
Std Dev 0.9474

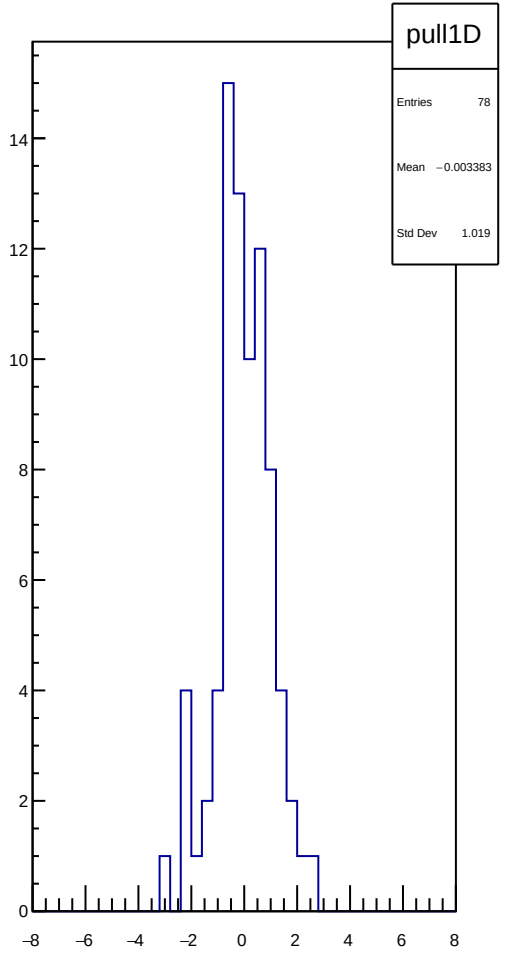

asym_atl2_correction_rms vs run
χ^2 / ndf 2.757e+04 / 77
p0 1.01e+04 ± 8.282
14000
13000
12000
11000
10000
9000
8000

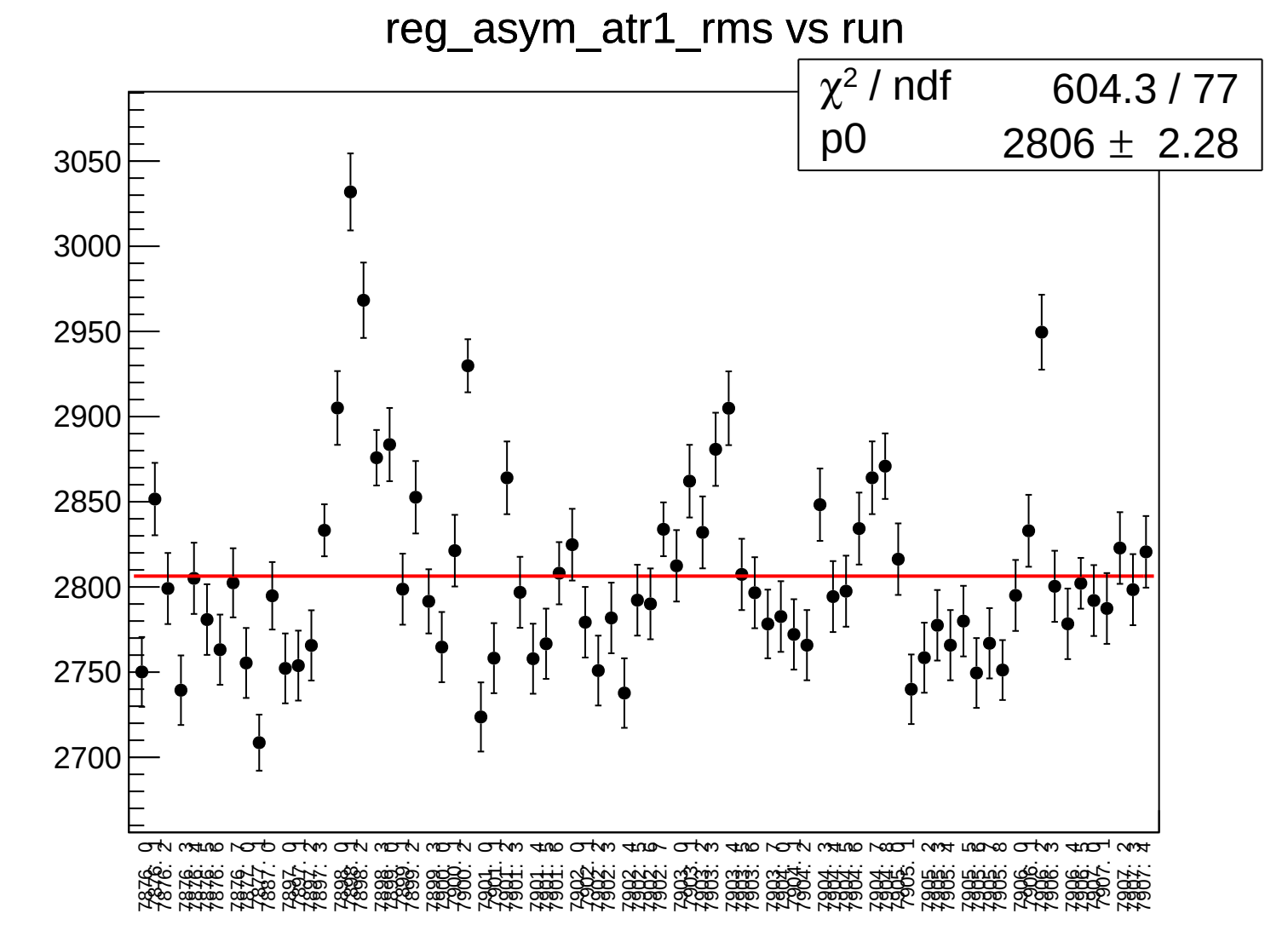

asym_atl2_mean vs run
×10^3
χ² / ndf 71.63 / 77
p0 −1.261e+04 ± 1.202e+04
pull
Entries 78
Mean −47.18
Std Dev 92.08

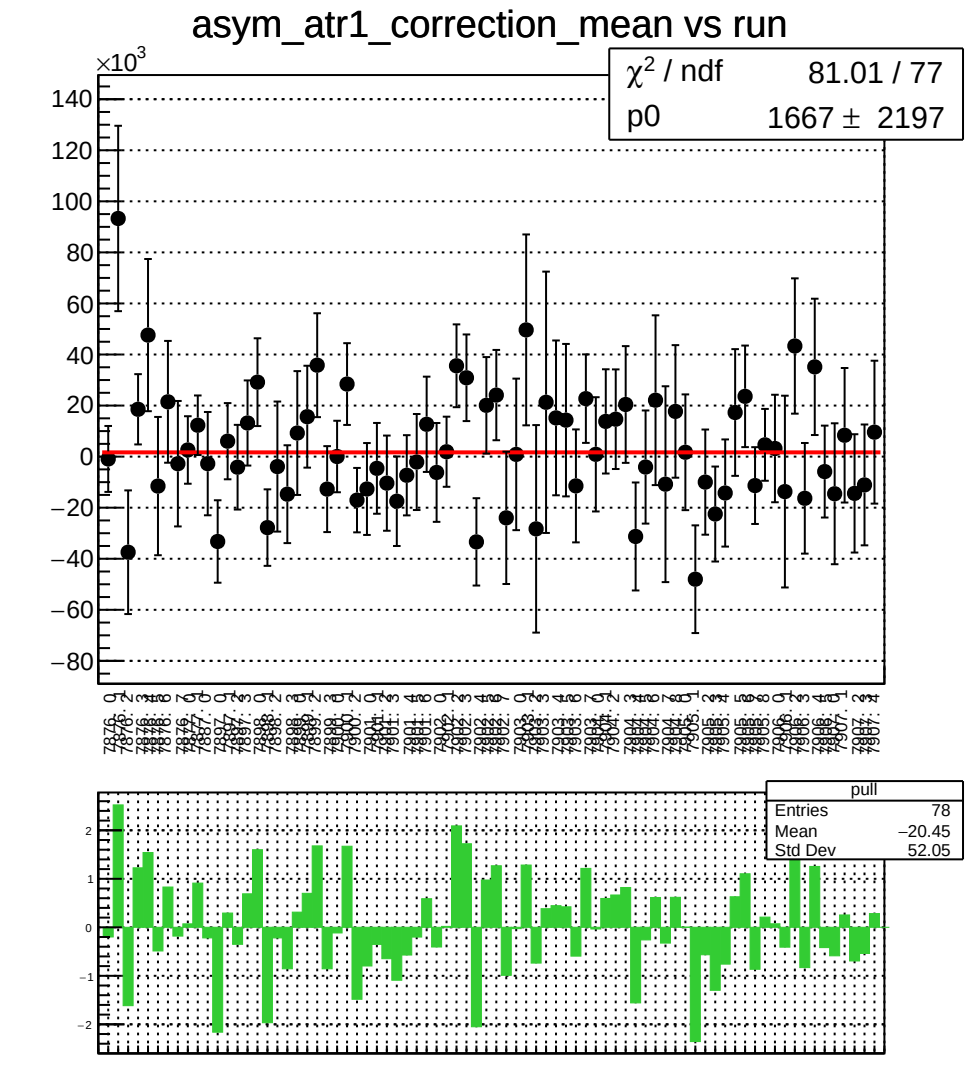

pull1D
Entries 78
Mean −0.01359
Std Dev 0.9582

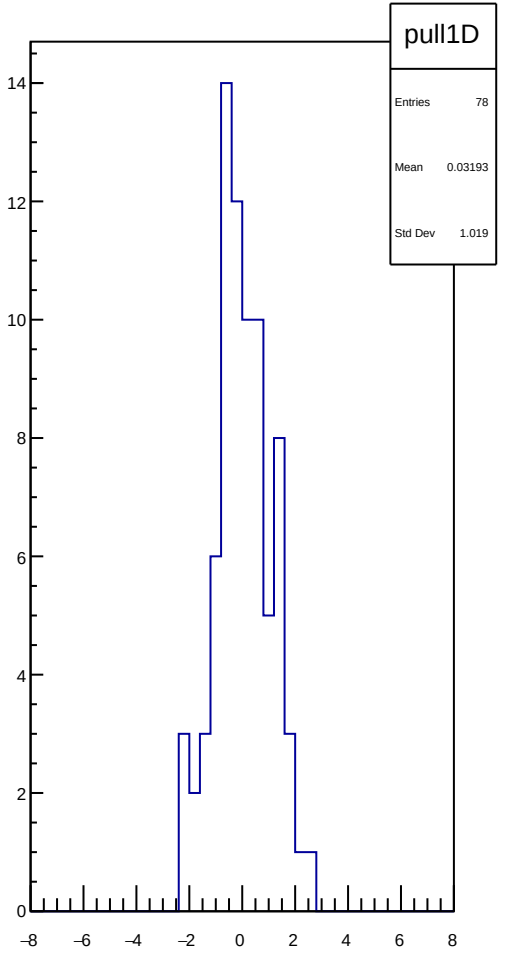

asym_atl2_rms vs run
χ² / ndf 2.517e+04 / 77
p0 1.038e+04 ± 8.5
14000
13000
12000
11000
10000
9000
8000

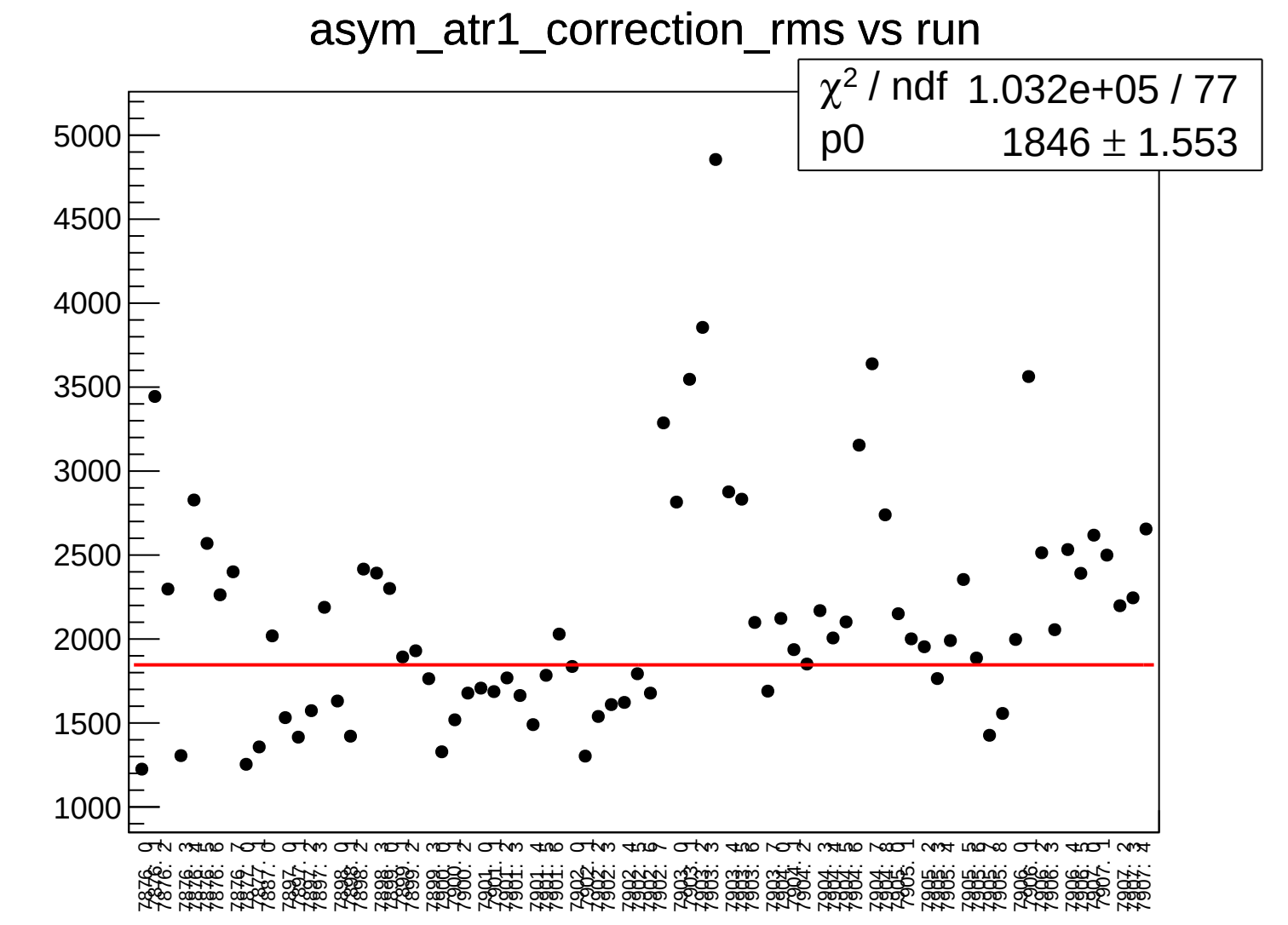

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 80.96 / 77
p0 863 ± 3224
100
50
0
−50
−100
pull
Entries 78
Mean 432.1
Std Dev 382.9
3
2
1
0
−1
−2
−3

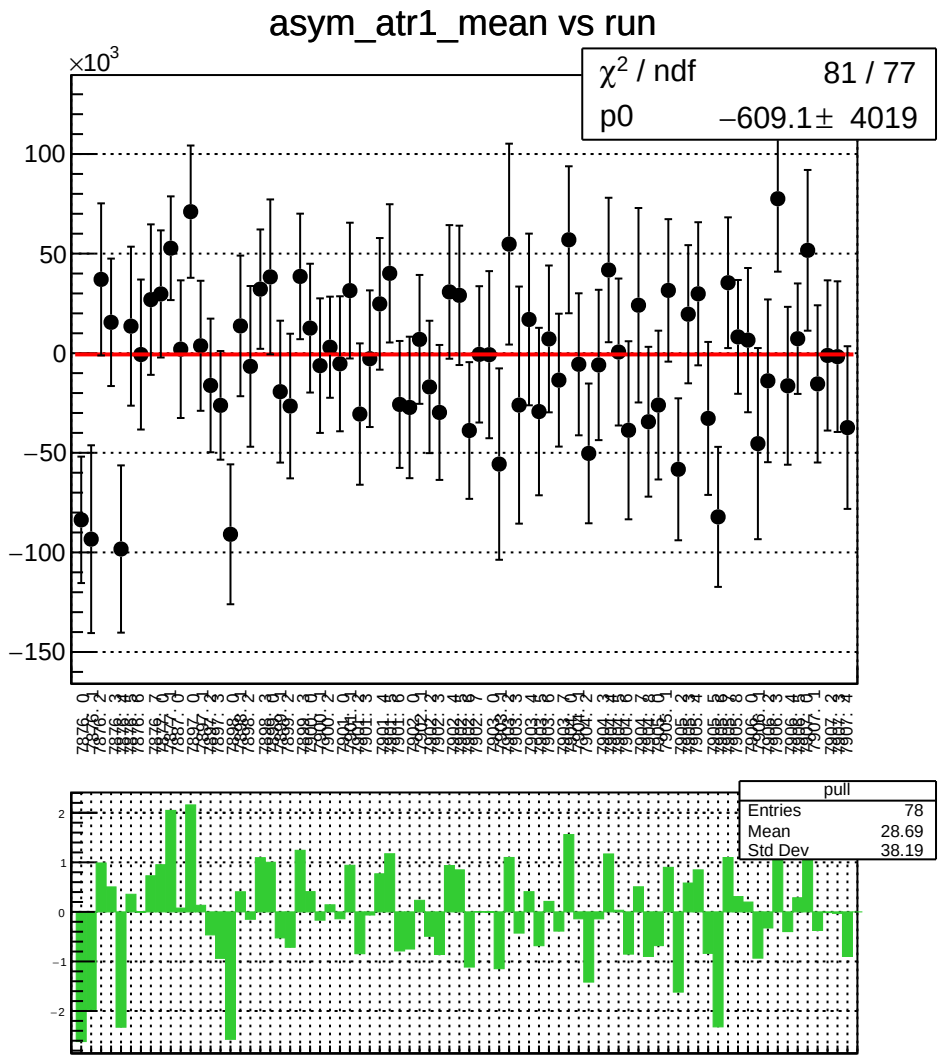

pull1D
Entries 78
Mean −0.003383
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

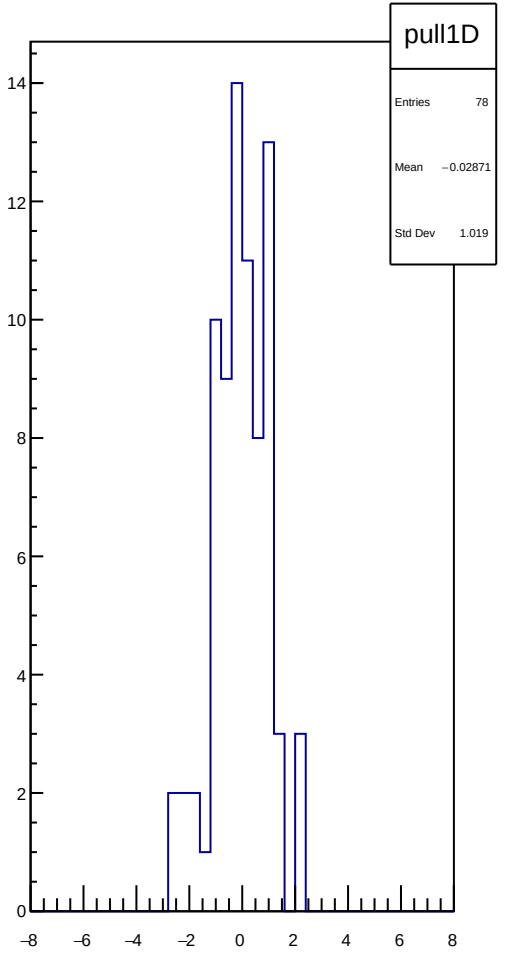

reg_asym_atr1_rms vs run
χ² / ndf 604.3 / 77
p0 2806 ± 2.28
3050
3000
2950
2900
2850
2800
2750
2700

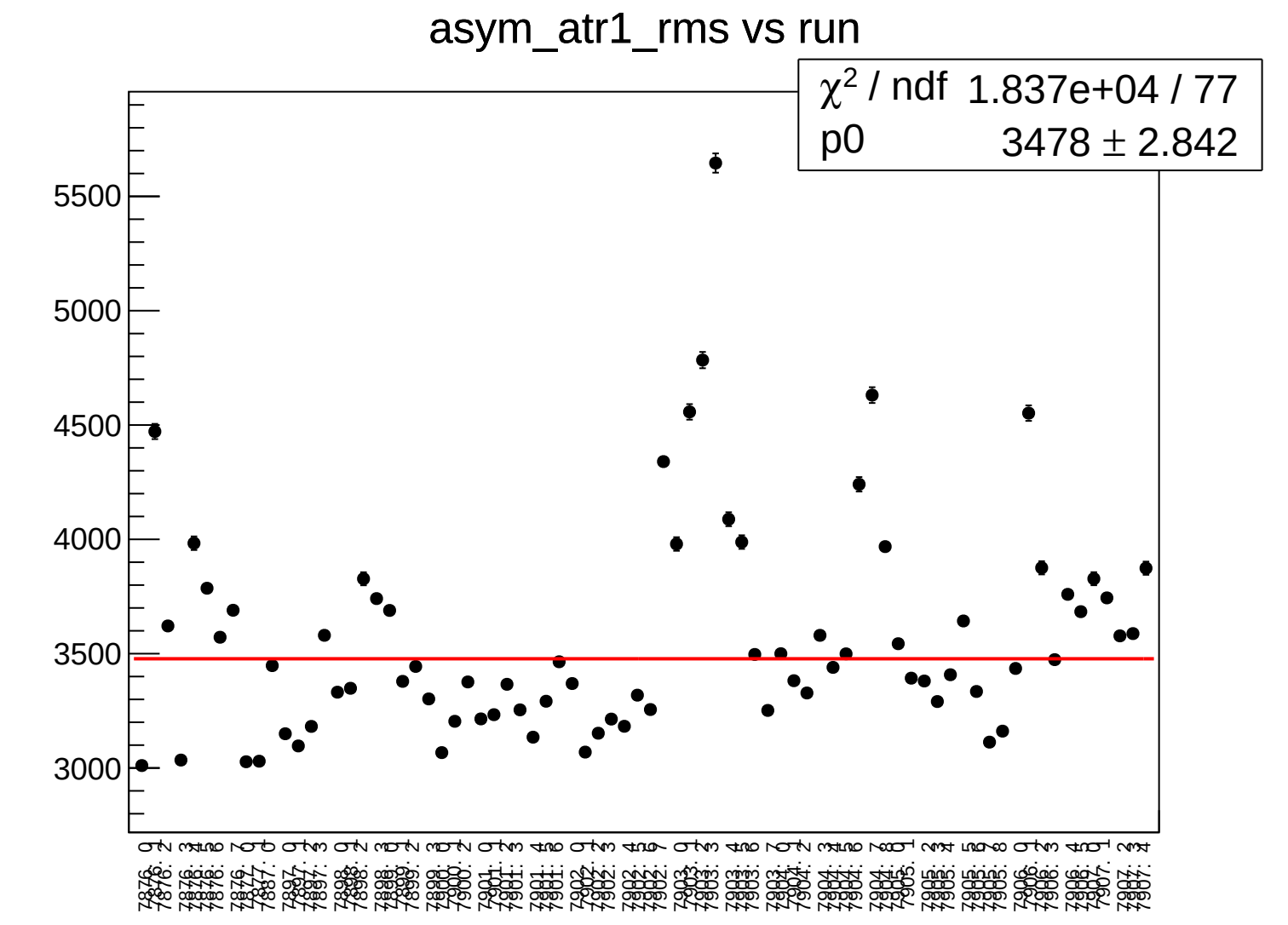

asym_atr1_correction_mean vs run
×10^3
χ^2 / ndf 81.01 / 77
p0 1667 ± 2197
pull
Entries 78
Mean −20.45
Std Dev 52.05

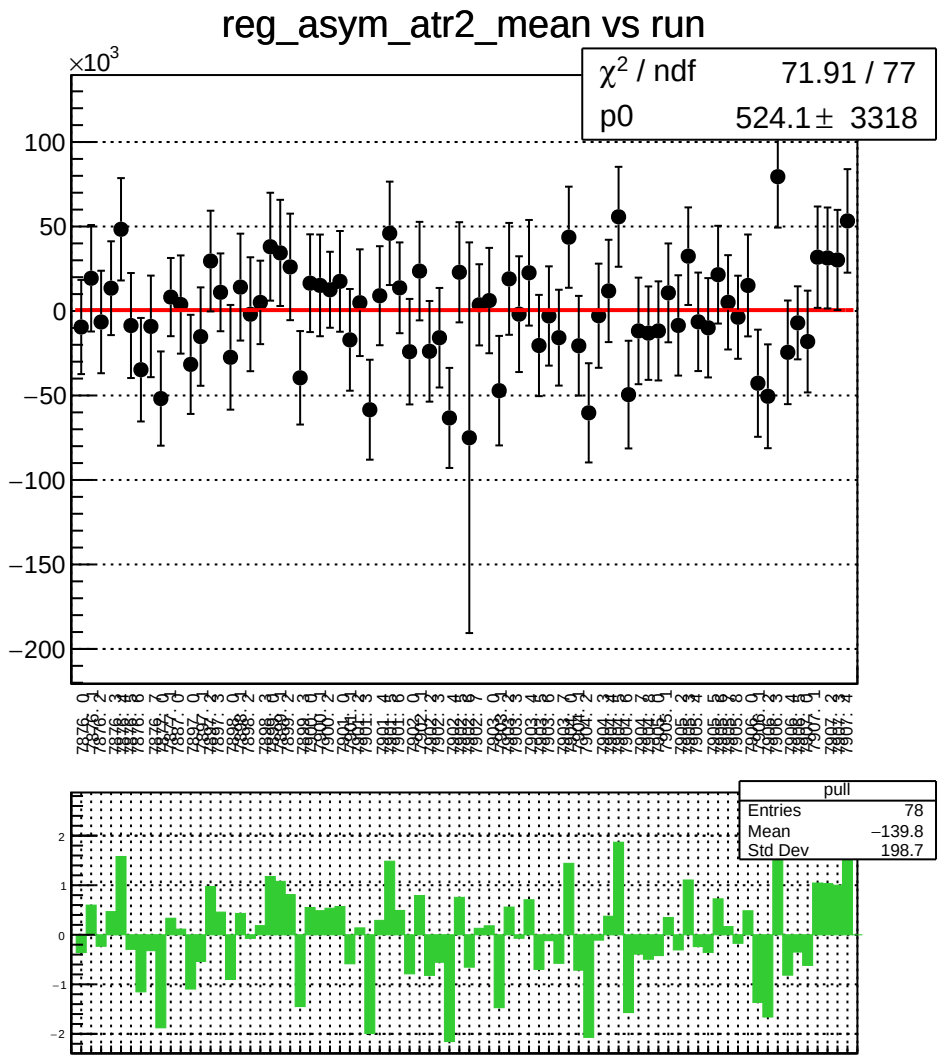

pull1D
Entries 78
Mean 0.03193
Std Dev 1.019

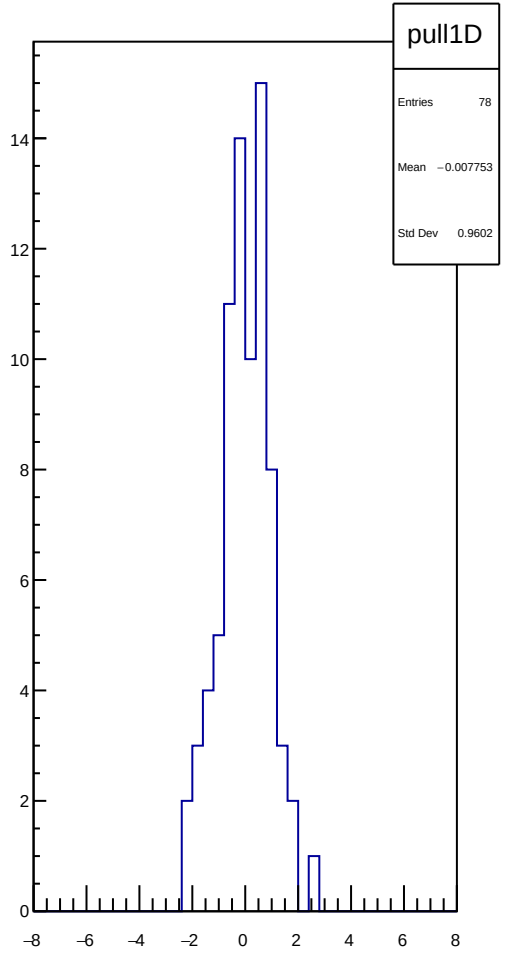

asym_atr1_correction_rms vs run
χ² / ndf 1.032e+05 / 77
p0 1846 ± 1.553
5000
4500
4000
3500
3000
2500
2000
1500
1000

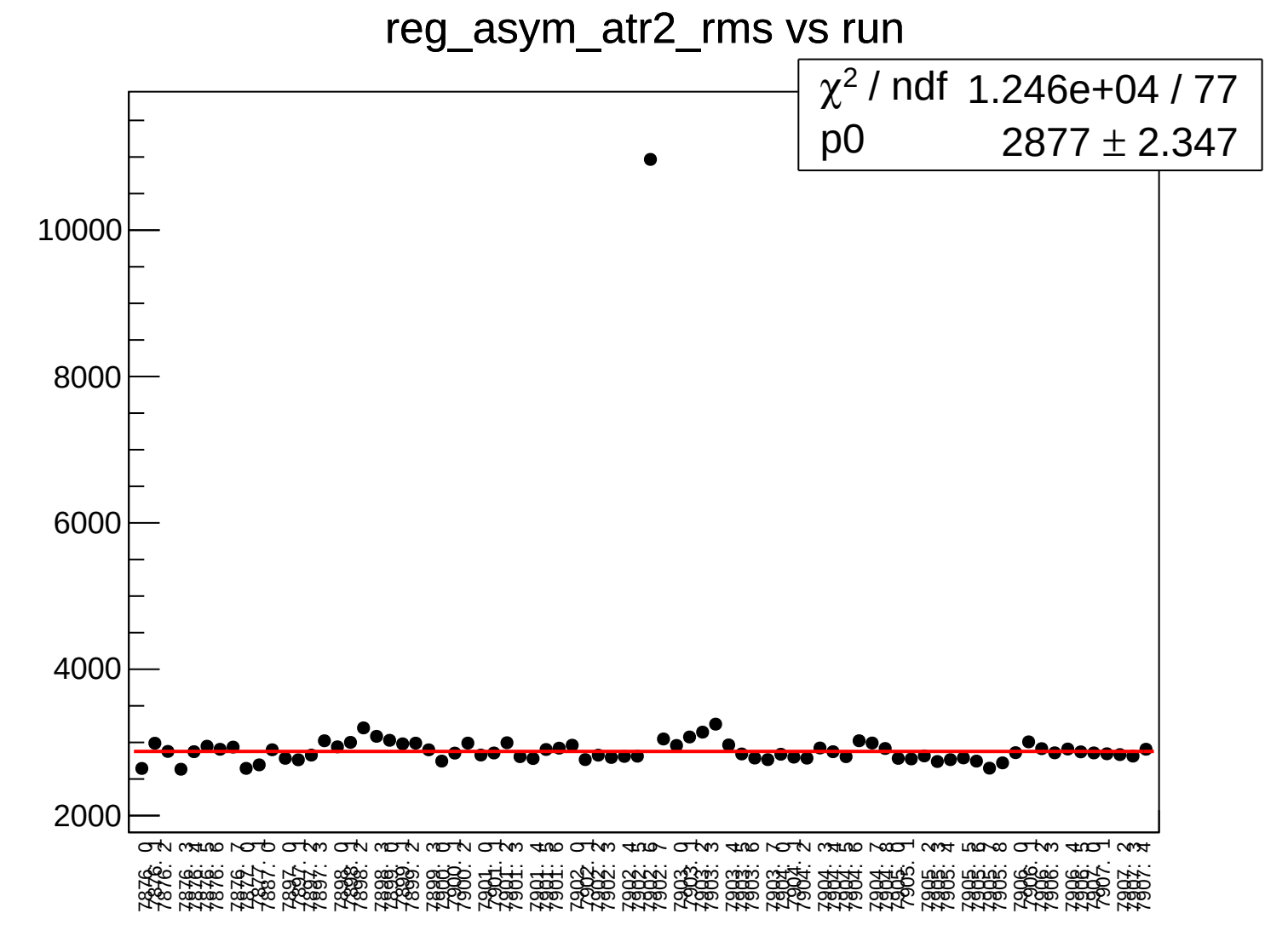

asym_atr1_mean vs run
×10^3
χ² / ndf 81 / 77
p0 −609.1± 4019
100
50
0
−50
−100
−150
pull
Entries 78
Mean 28.69
Std Dev 38.19
2
1
0
−1
−2

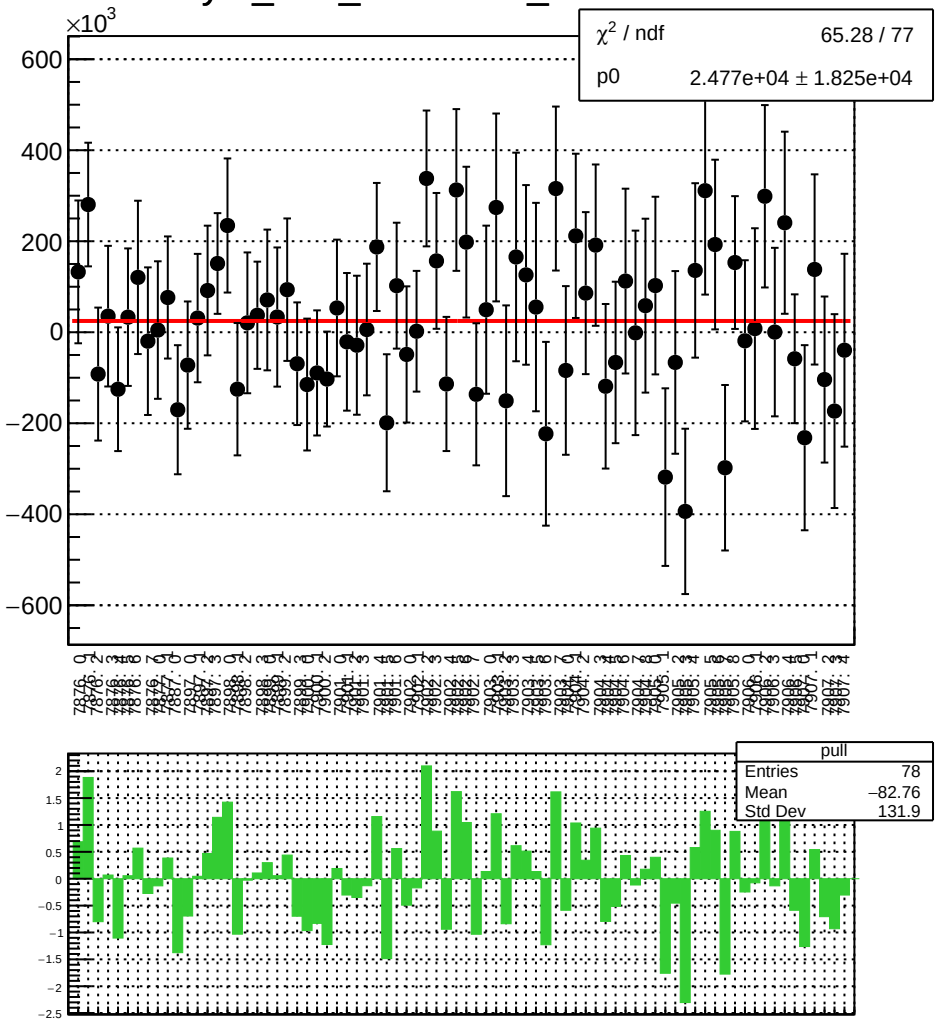

pull1D
Entries 78
Mean −0.02871
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

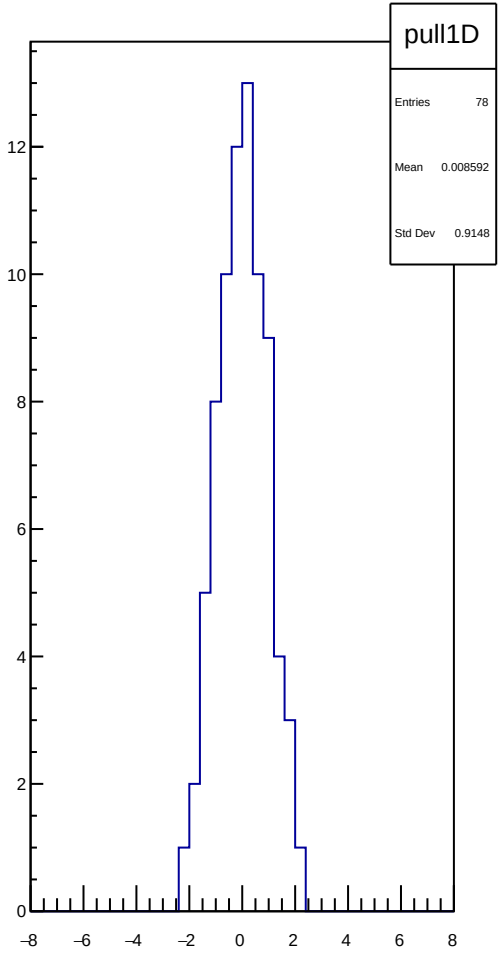

asym_atr1_rms vs run
χ² / ndf 1.837e+04 / 77
p0 3478 ± 2.842
5500
5000
4500
4000
3500
3000

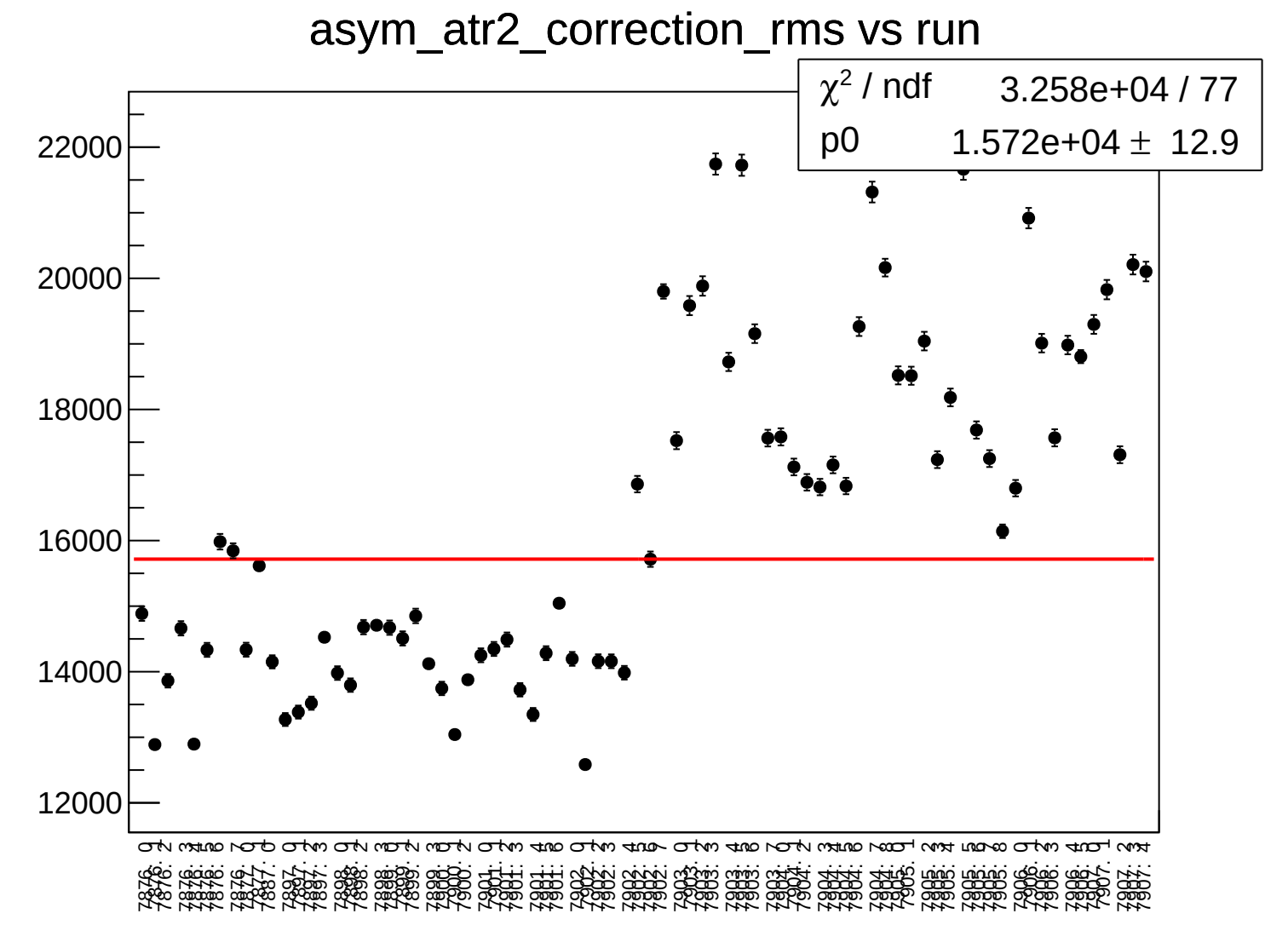

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 71.91 / 77
p0 524.1 ± 3318
100
50
0
−50
−100
−150
−200
pull
Entries 78
Mean −139.8
Std Dev 198.7
2
1
0
−1
−2

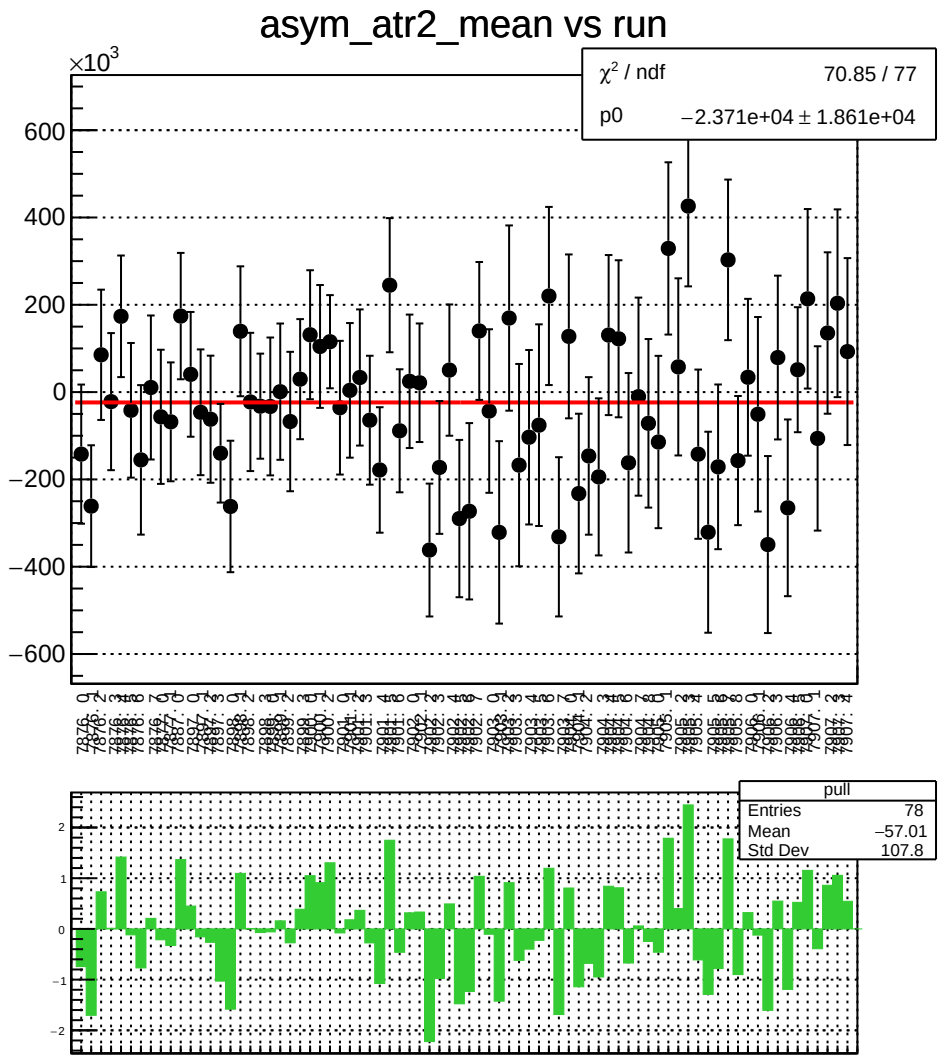

pull1D
Entries 78
Mean −0.007753
Std Dev 0.9602
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

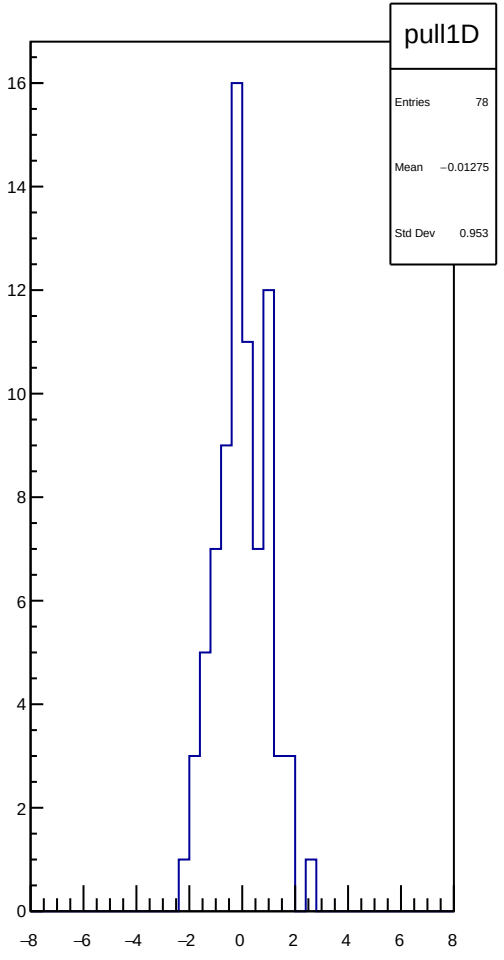

reg_asym_atr2_rms vs run
χ² / ndf 1.246e+04 / 77
p0 2877 ± 2.347
10000
8000
6000
4000
2000

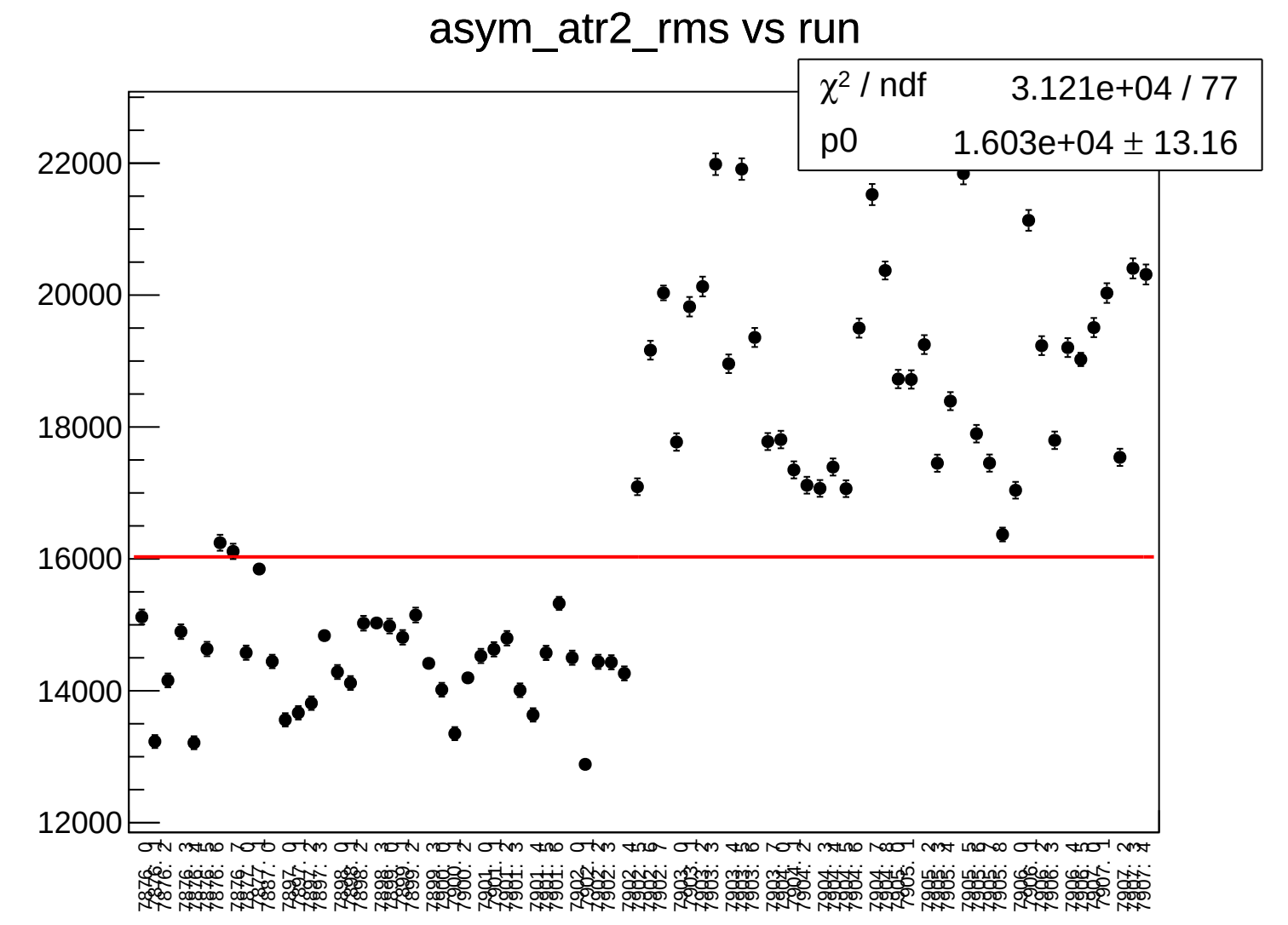

asym_atr2_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 65.28 / 77
p0 2.477e+04 ± 1.825e+04
pull
Entries 78
Mean −82.76
Std Dev 131.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

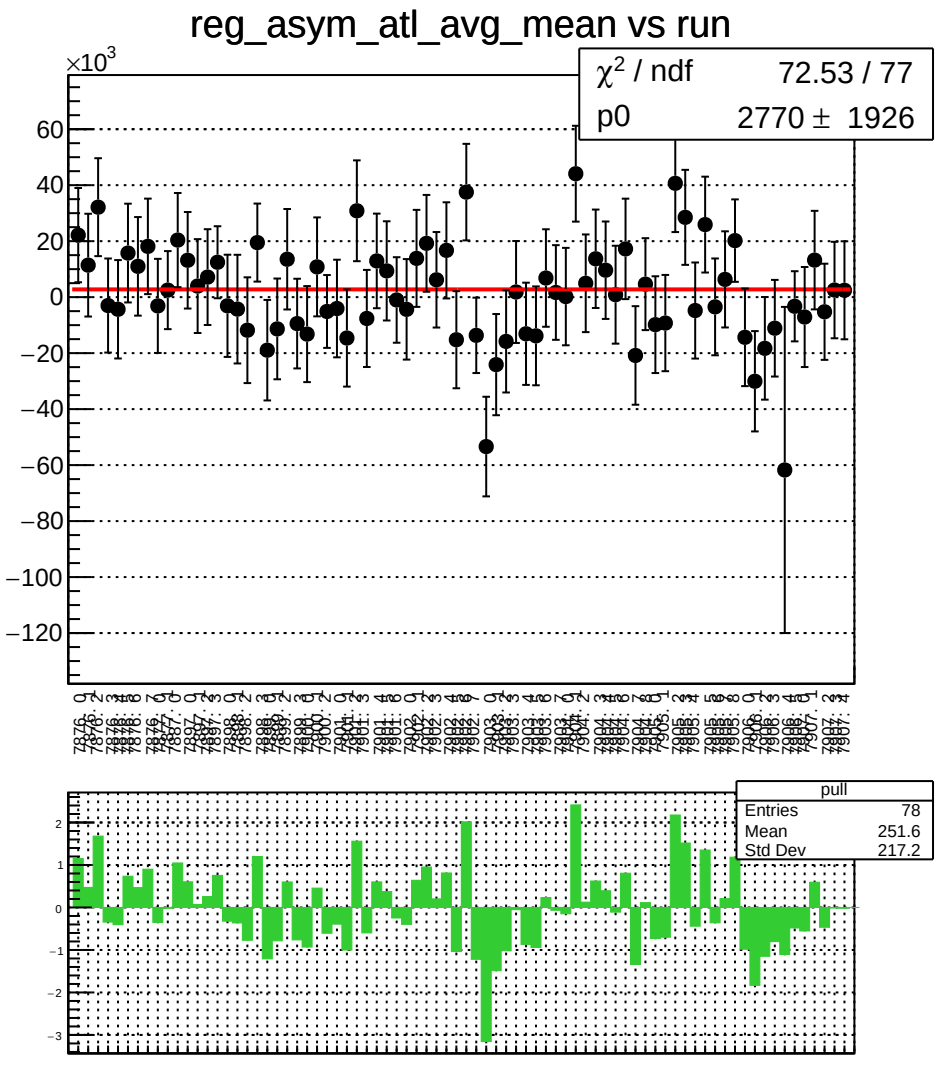

pull1D
Entries 78
Mean 0.008592
Std Dev 0.9148
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

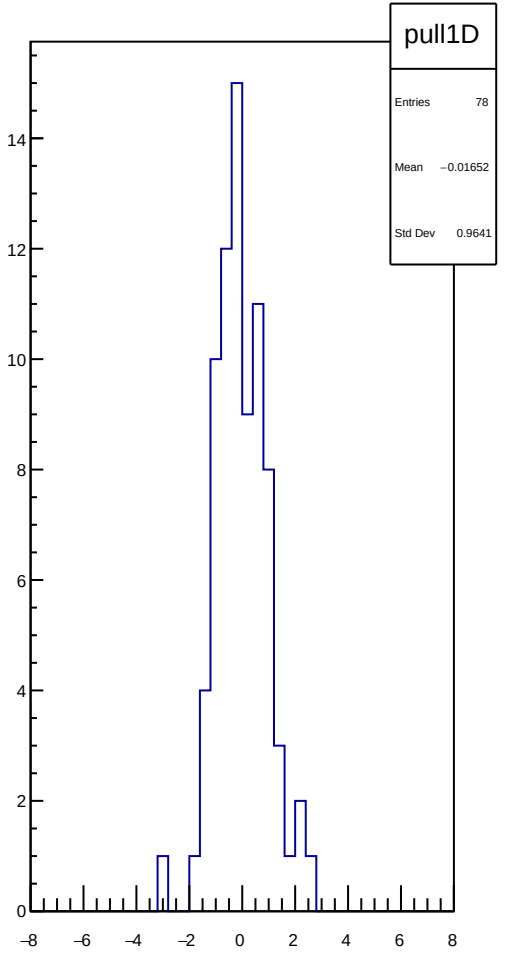

asym_atr2_correction_rms vs run
χ² / ndf 3.258e+04 / 77
p0 1.572e+04 ± 12.9
22000
20000
18000
16000
14000
12000

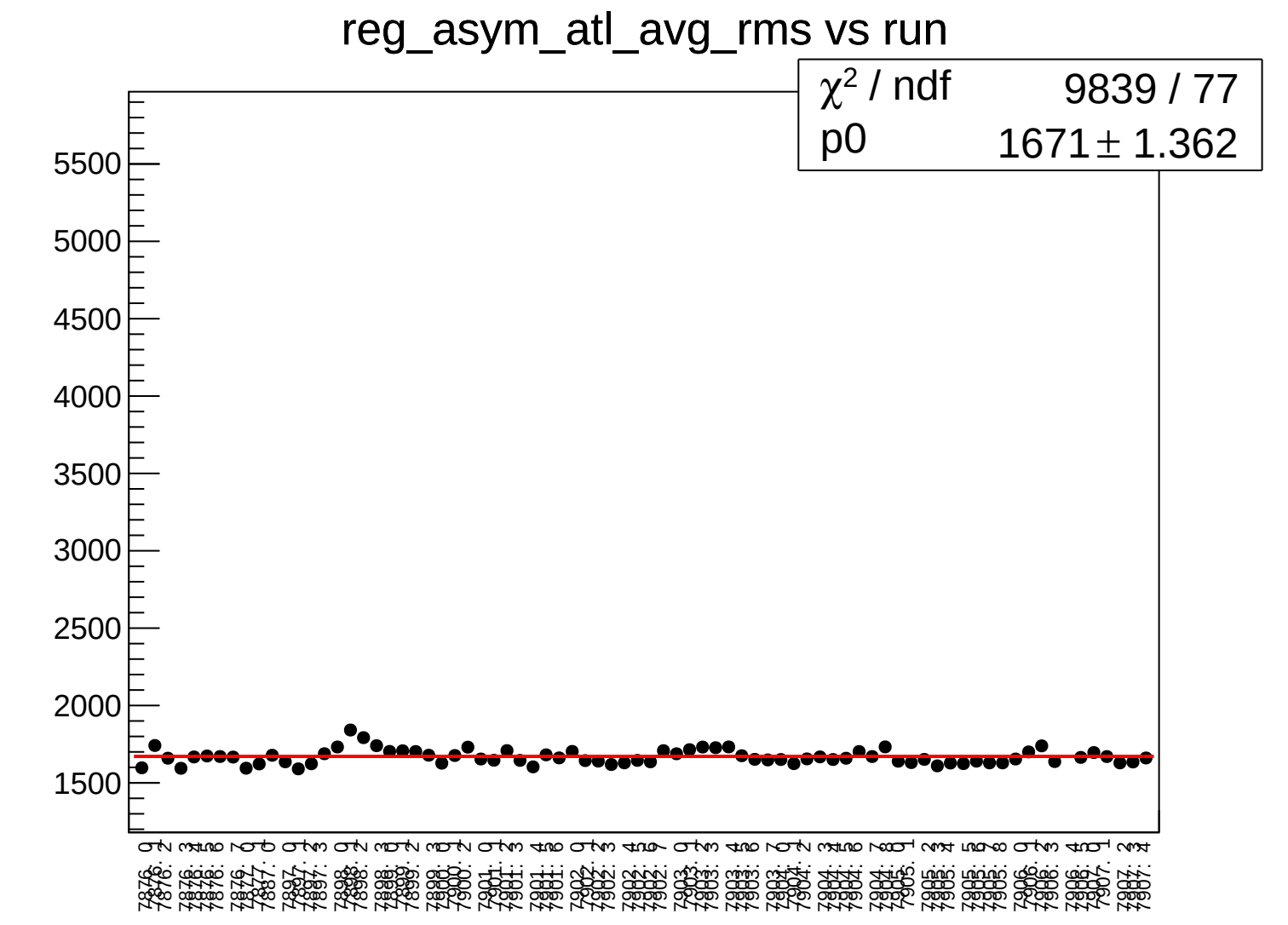

asym_atr2_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 70.85 / 77
p0 −2.371e+04 ± 1.861e+04
pull
Entries 78
Mean −57.01
Std Dev 107.8
2
1
0
−1
−2

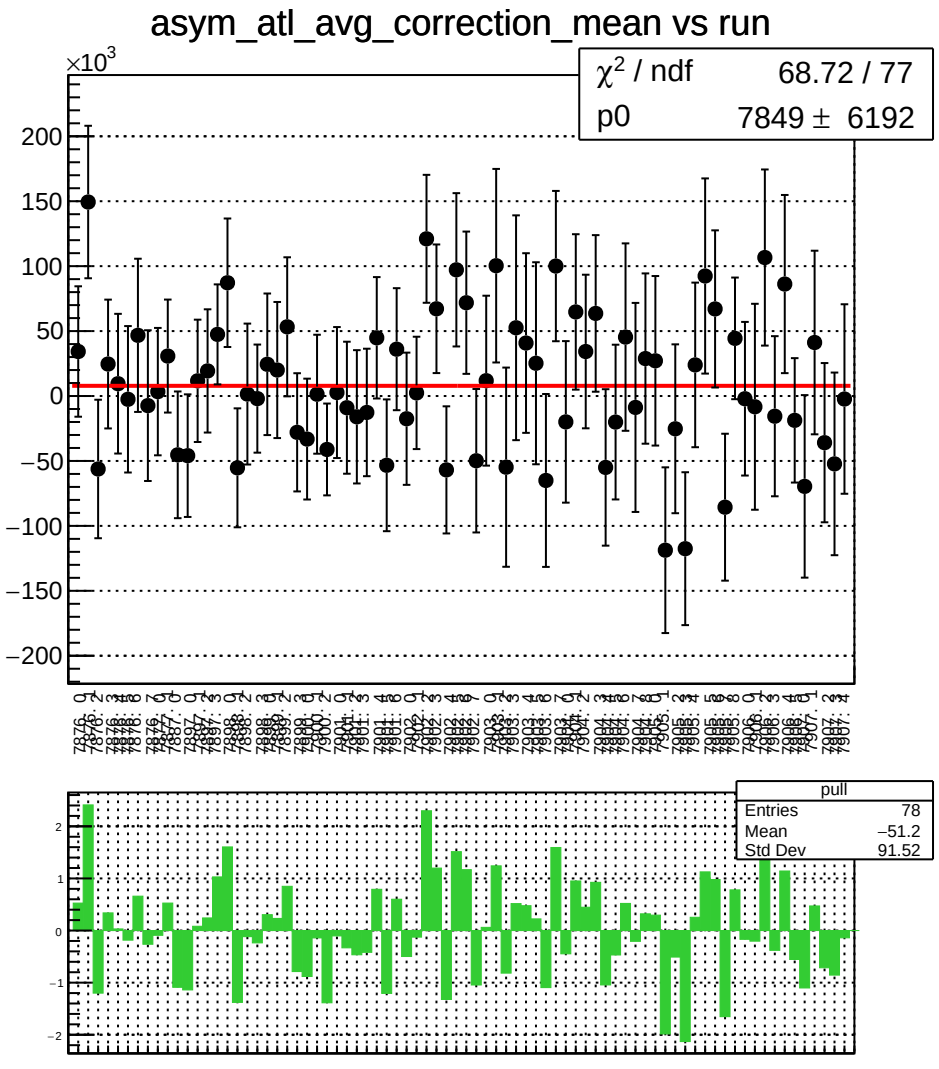

pull1D
Entries 78
Mean −0.01275
Std Dev 0.953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

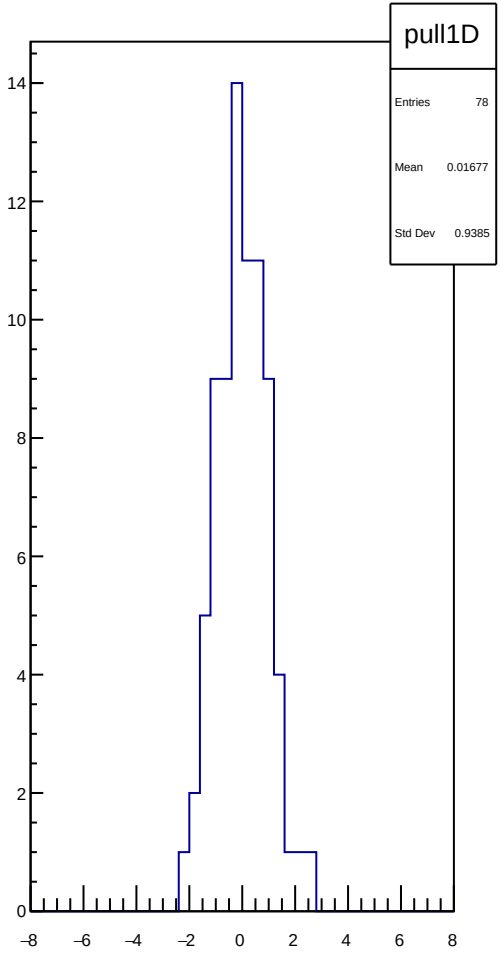

asym_atr2_rms vs run
χ² / ndf 3.121e+04 / 77
p0 1.603e+04 ± 13.16
22000
20000
18000
16000
14000
12000

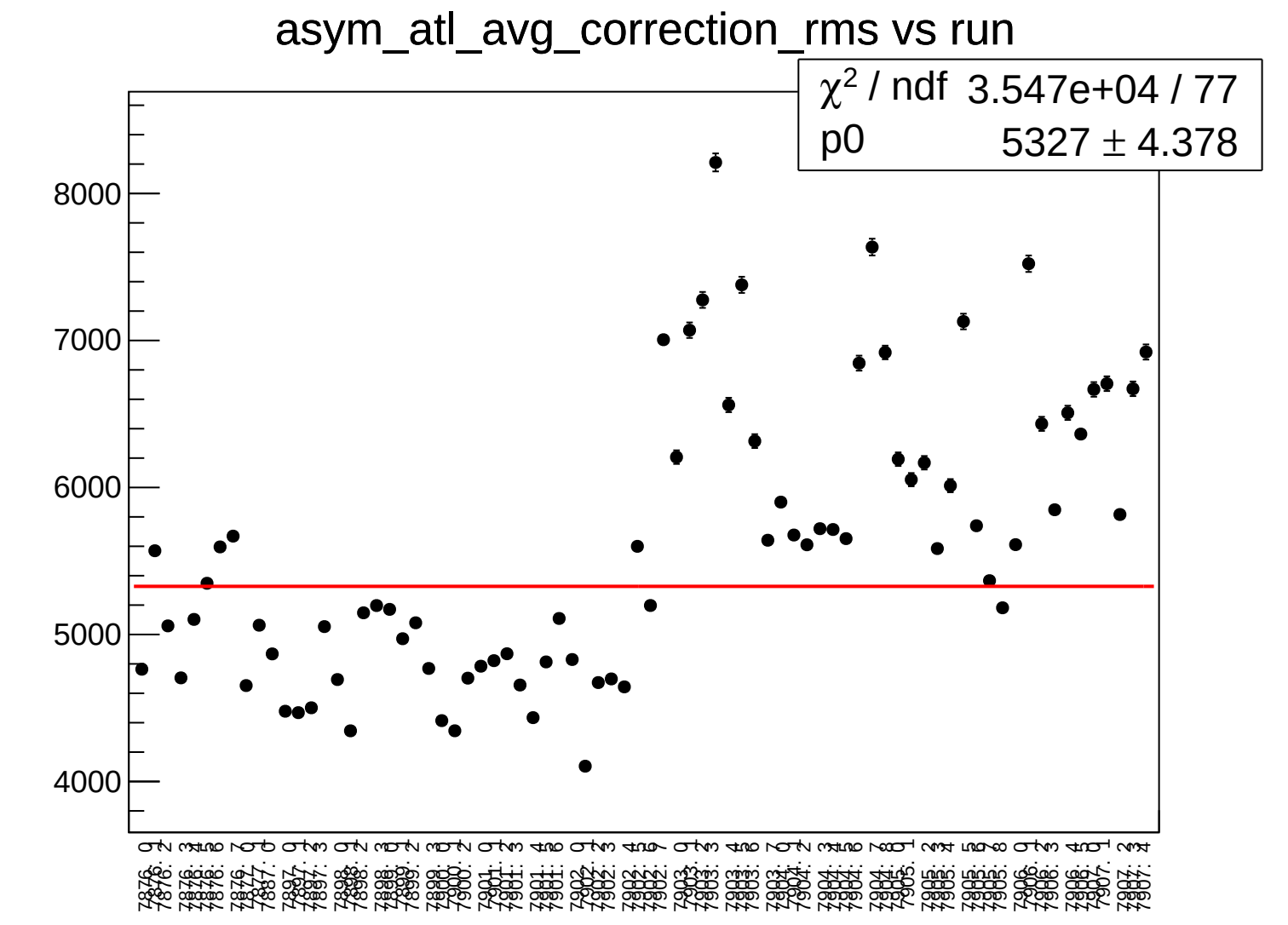

reg_asym_atl_avg_mean vs run
×10^3
χ² / ndf 72.53 / 77
p0 2770 ± 1926
pull
Entries 78
Mean 251.6
Std Dev 217.2

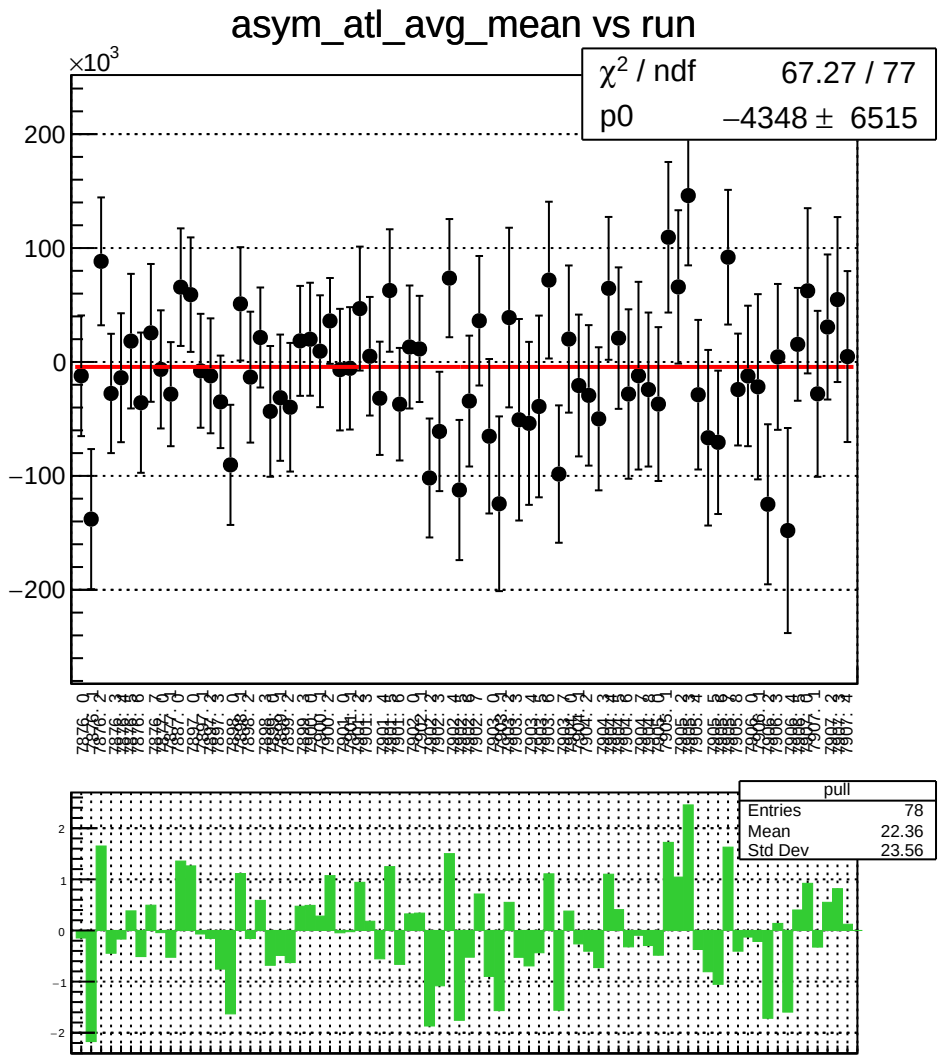

pull1D
Entries 78
Mean −0.01652
Std Dev 0.9641

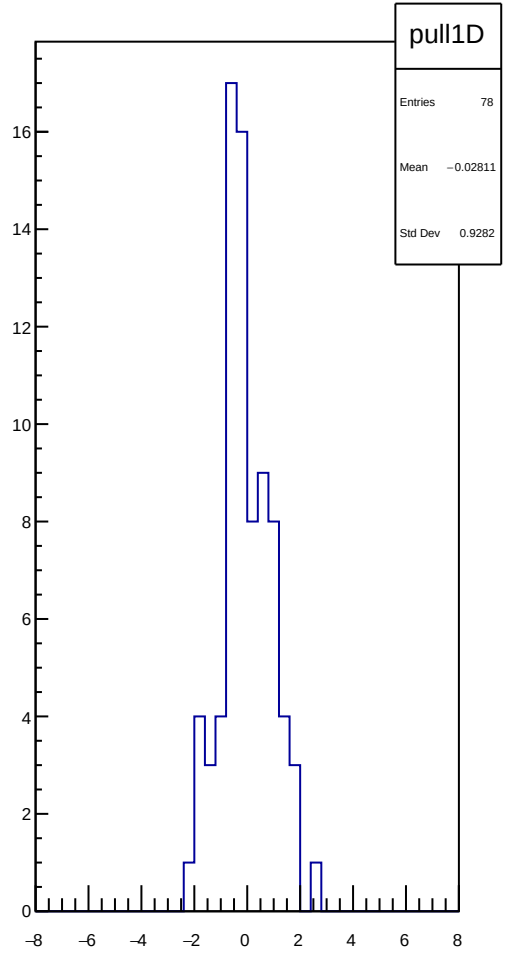

reg_asym_atl_avg_rms vs run
χ^2 / ndf 9839 / 77
p0 1671 ± 1.362
5500
5000
4500
4000
3500
3000
2500
2000
1500

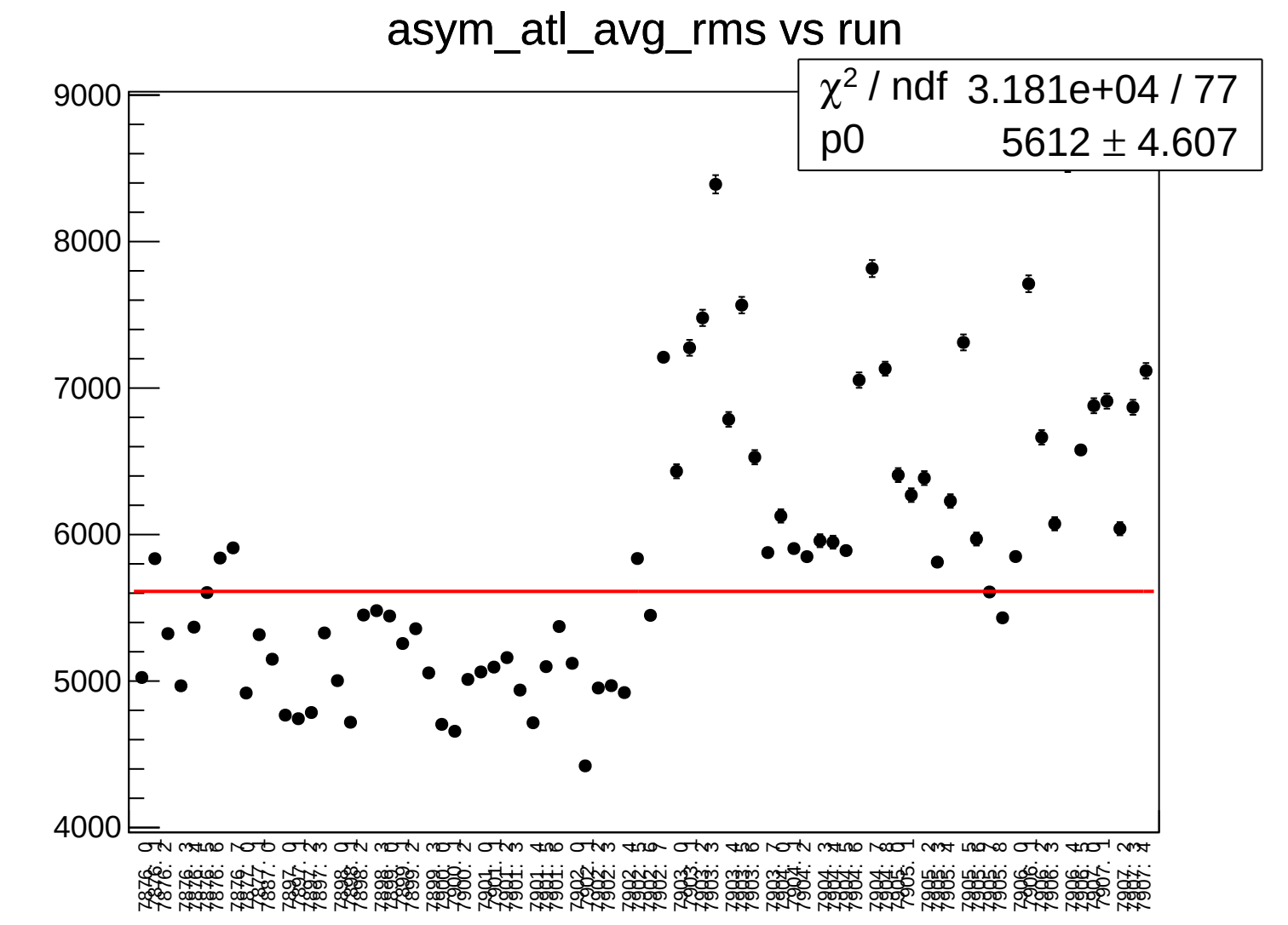

asym_atl_avg_correction_mean vs run
χ² / ndf 68.72 / 77
p0 7849 ± 6192
pull
Entries 78
Mean −51.2
Std Dev 91.52

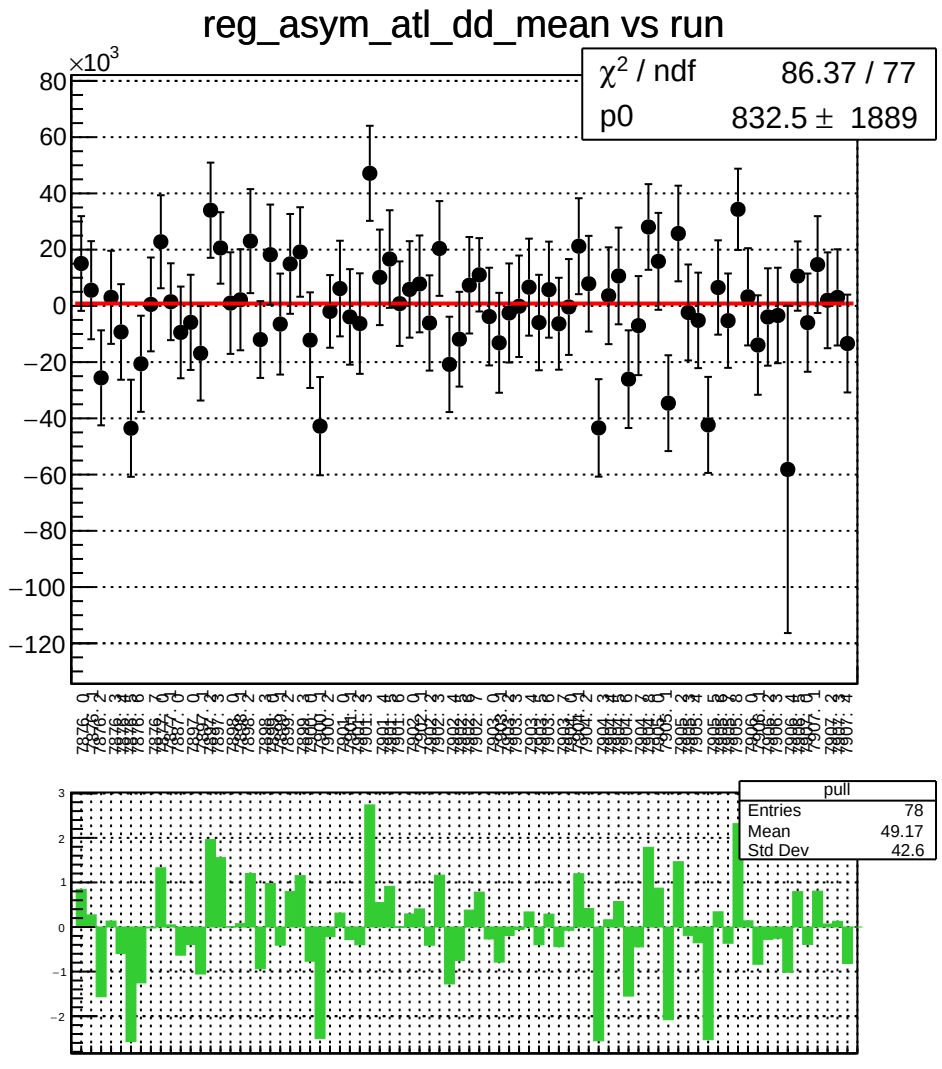

pull1D
Entries 78
Mean 0.01677
Std Dev 0.9385

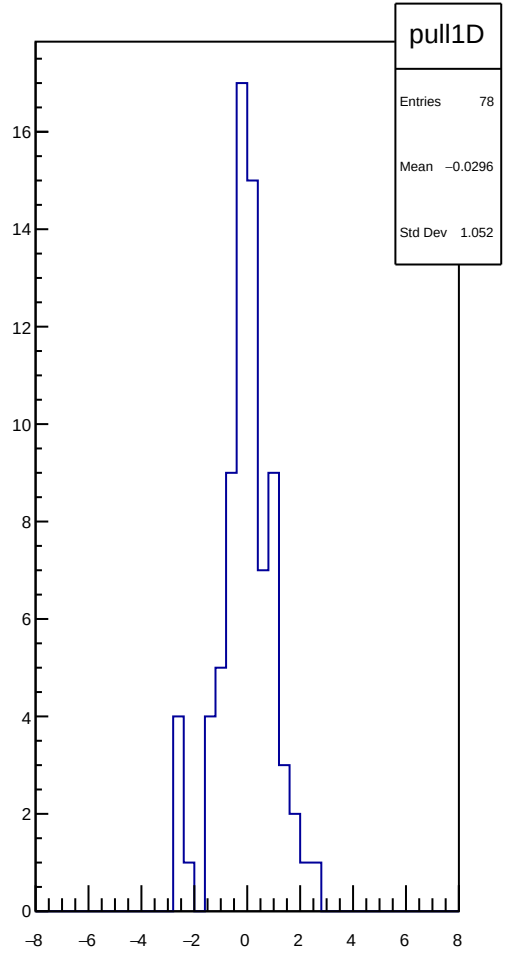

asym_atl_avg_correction_rms vs run
χ² / ndf 3.547e+04 / 77
p0 5327 ± 4.378
8000
7000
6000
5000
4000

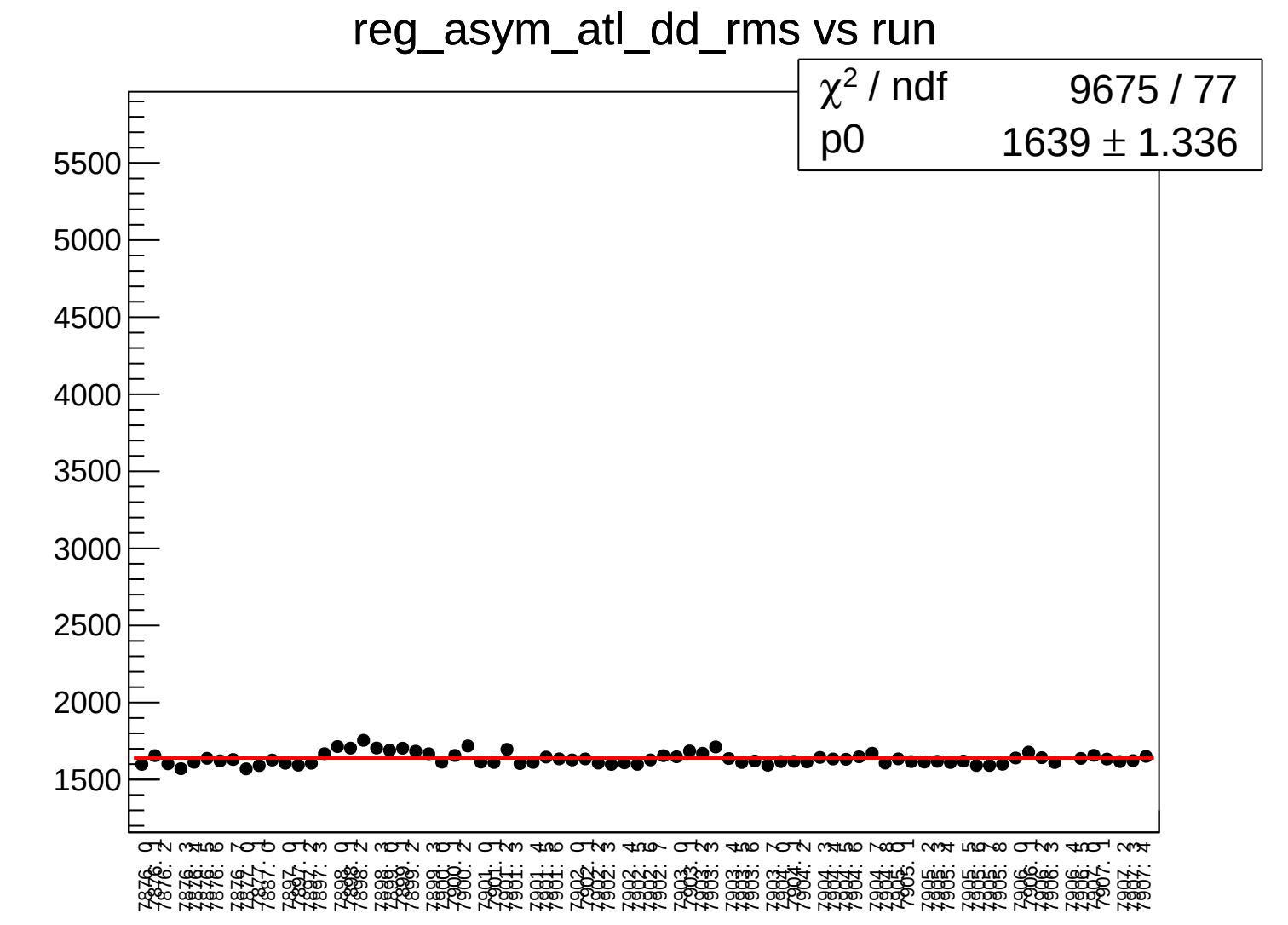

asym_atl_avg_mean vs run
×10^3
χ² / ndf 67.27 / 77
p0 −4348 ± 6515
200
100
0
−100
−200
pull
Entries 78
Mean 22.36
Std Dev 23.56
2
1
0
−1
−2

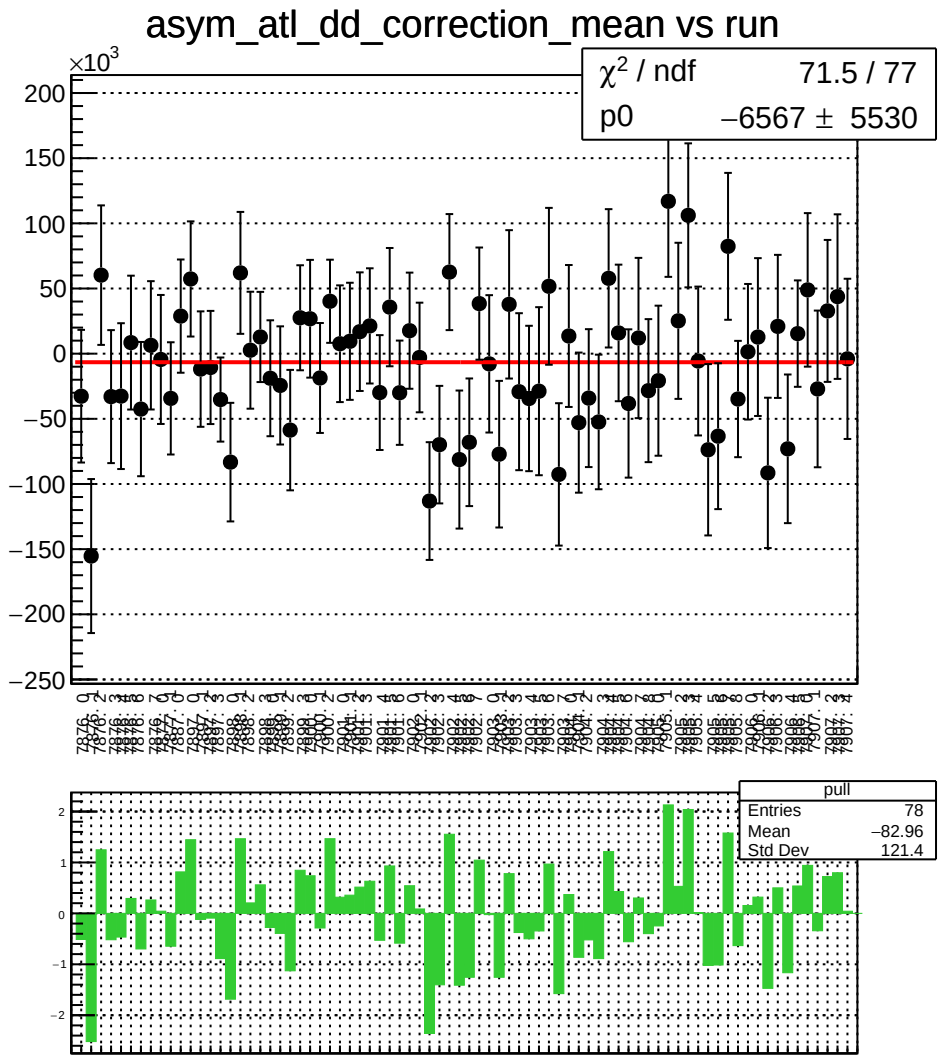

pull1D
Entries 78
Mean −0.02811
Std Dev 0.9282
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

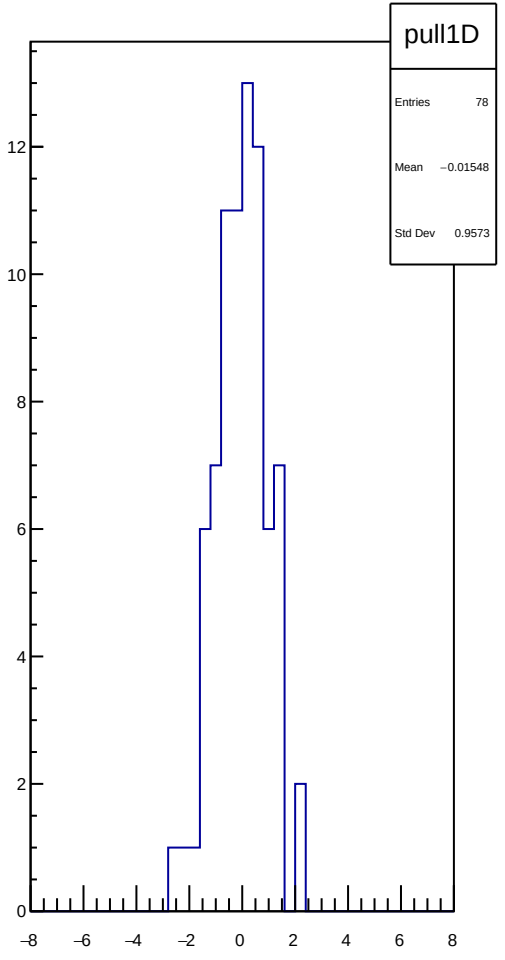

asym_atl_avg_rms vs run
χ^2 / ndf 3.181e+04 / 77
p0 5612 ± 4.607
9000
8000
7000
6000
5000
4000

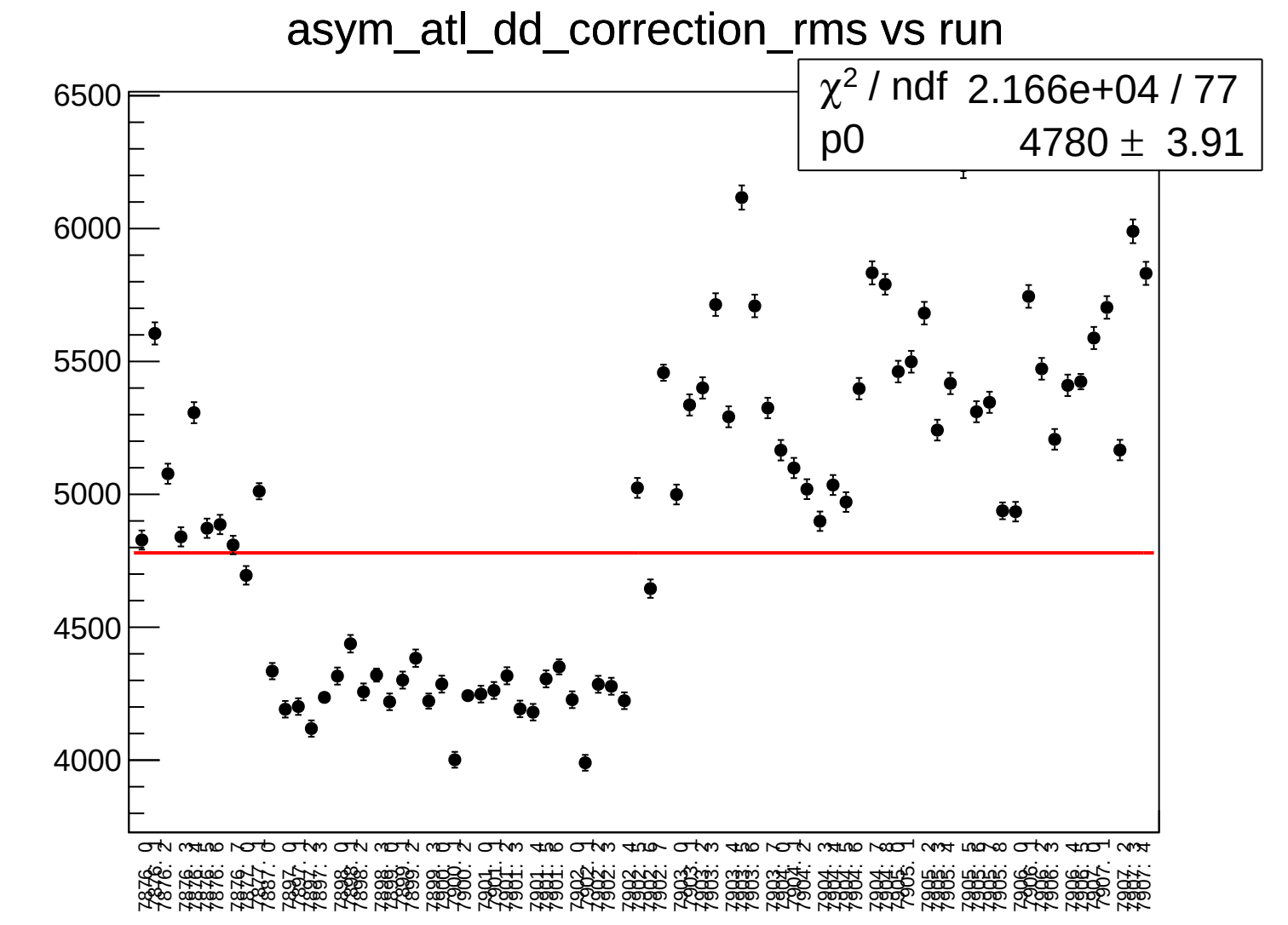

reg_asym_atl_dd_mean vs run
×10^3
χ² / ndf 86.37 / 77
p0 832.5 ± 1889
80
60
40
20
0
−20
−40
−60
−80
−100
−120
pull
Entries 78
Mean 49.17
Std Dev 42.6
3
2
1
0
−1
−2

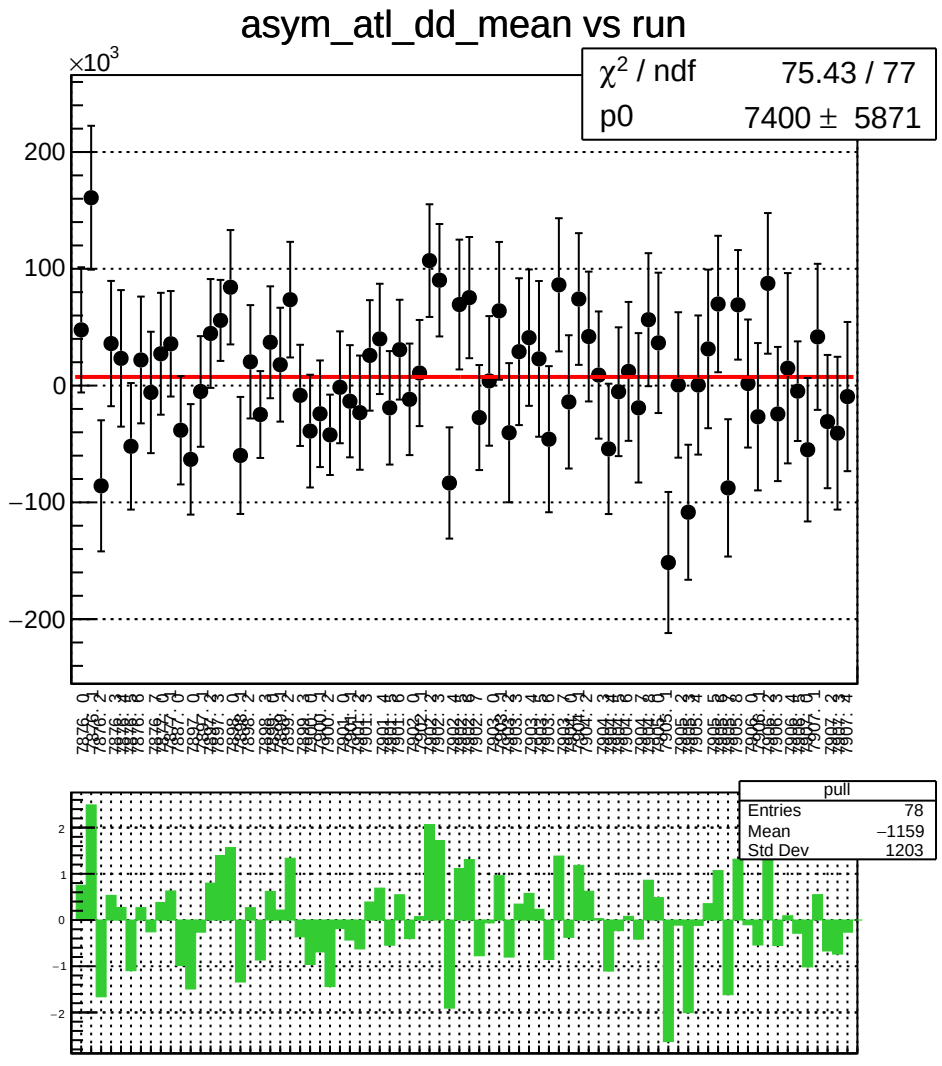

pull1D
Entries 78
Mean −0.0296
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

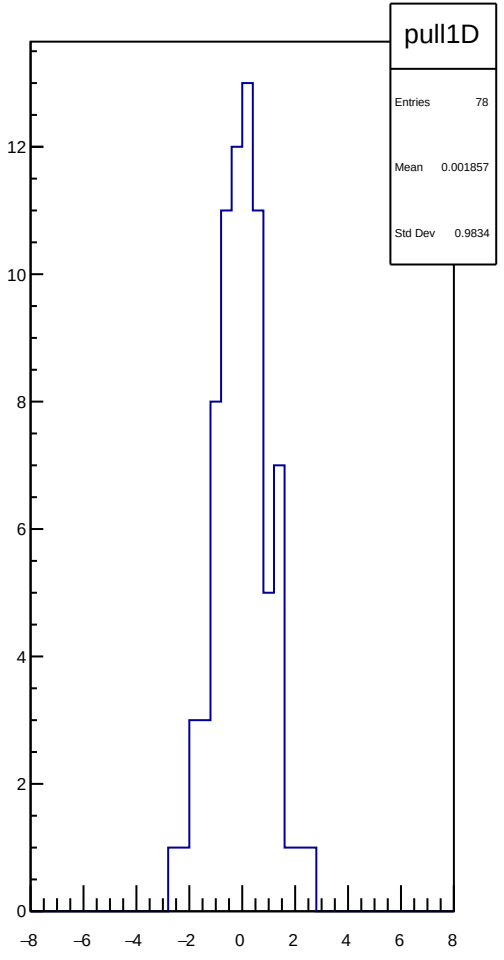

reg_asym_atl_dd_rms vs run
χ^2 / ndf 9675 / 77
p0 1639 ± 1.336
5500
5000
4500
4000
3500
3000
2500
2000
1500

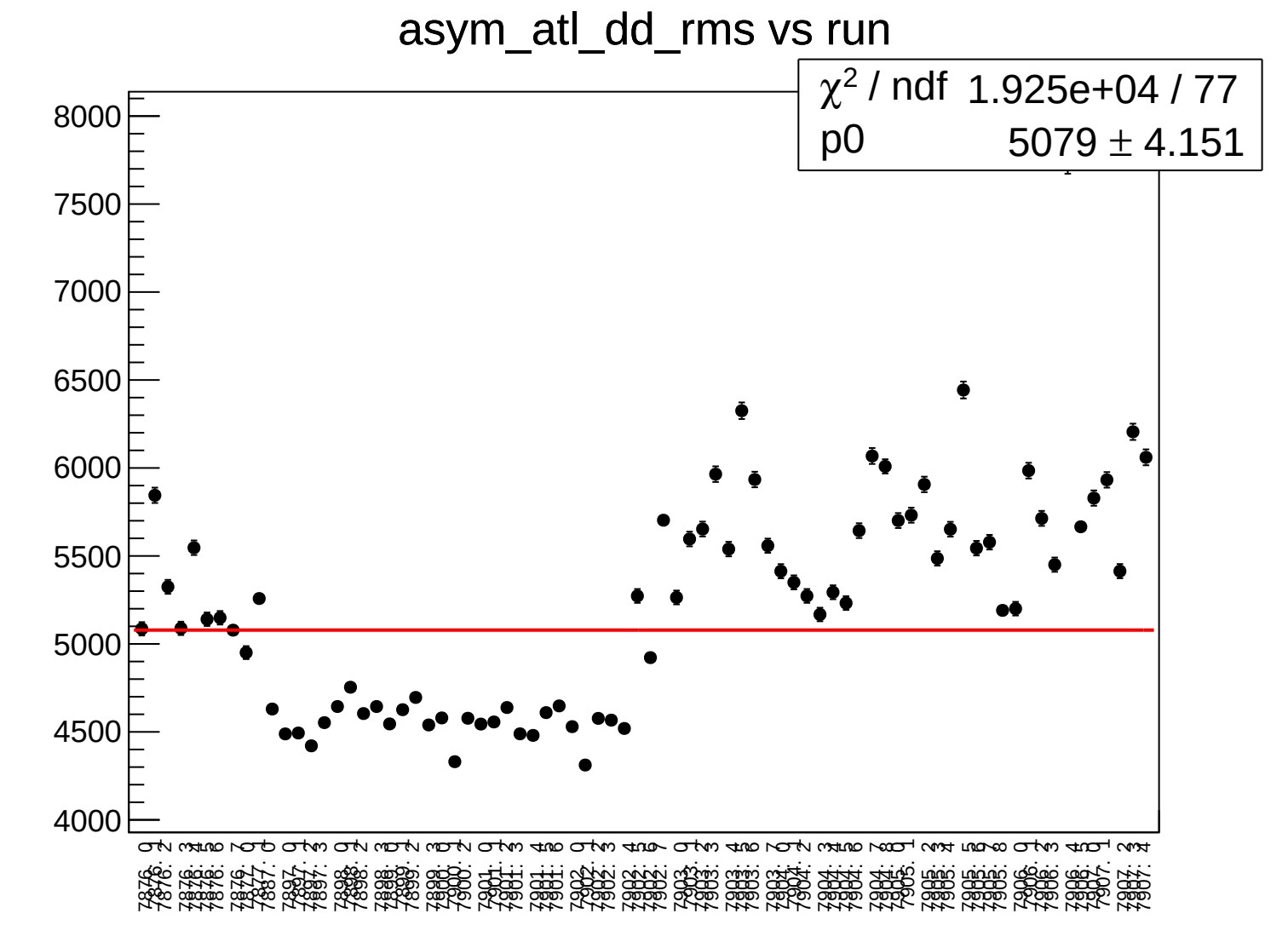

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 71.5 / 77
p0 −6567 ± 5530
pull
Entries 78
Mean −82.96
Std Dev 121.4

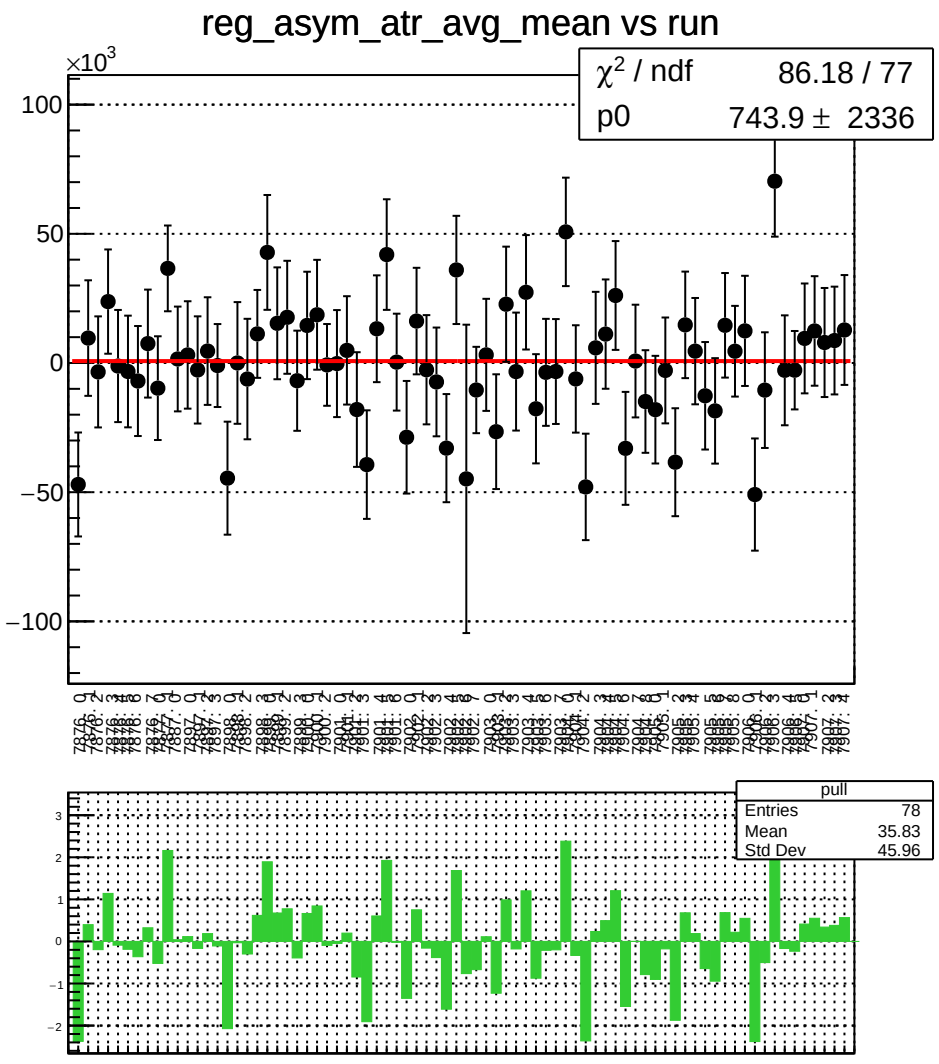

pull1D
Entries 78
Mean −0.01548
Std Dev 0.9573

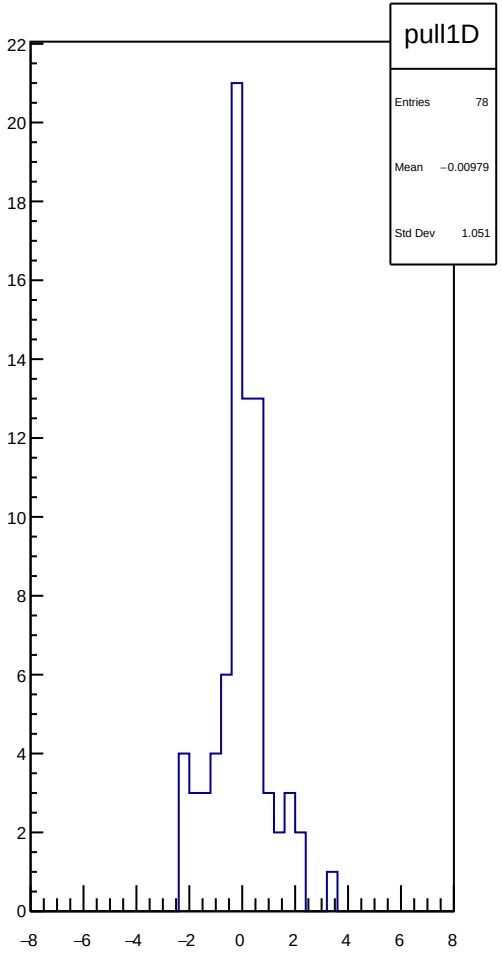

asym_atl_dd_correction_rms vs run
χ² / ndf 2.166e+04 / 77
p0 4780 ± 3.91
6500
6000
5500
5000
4500
4000

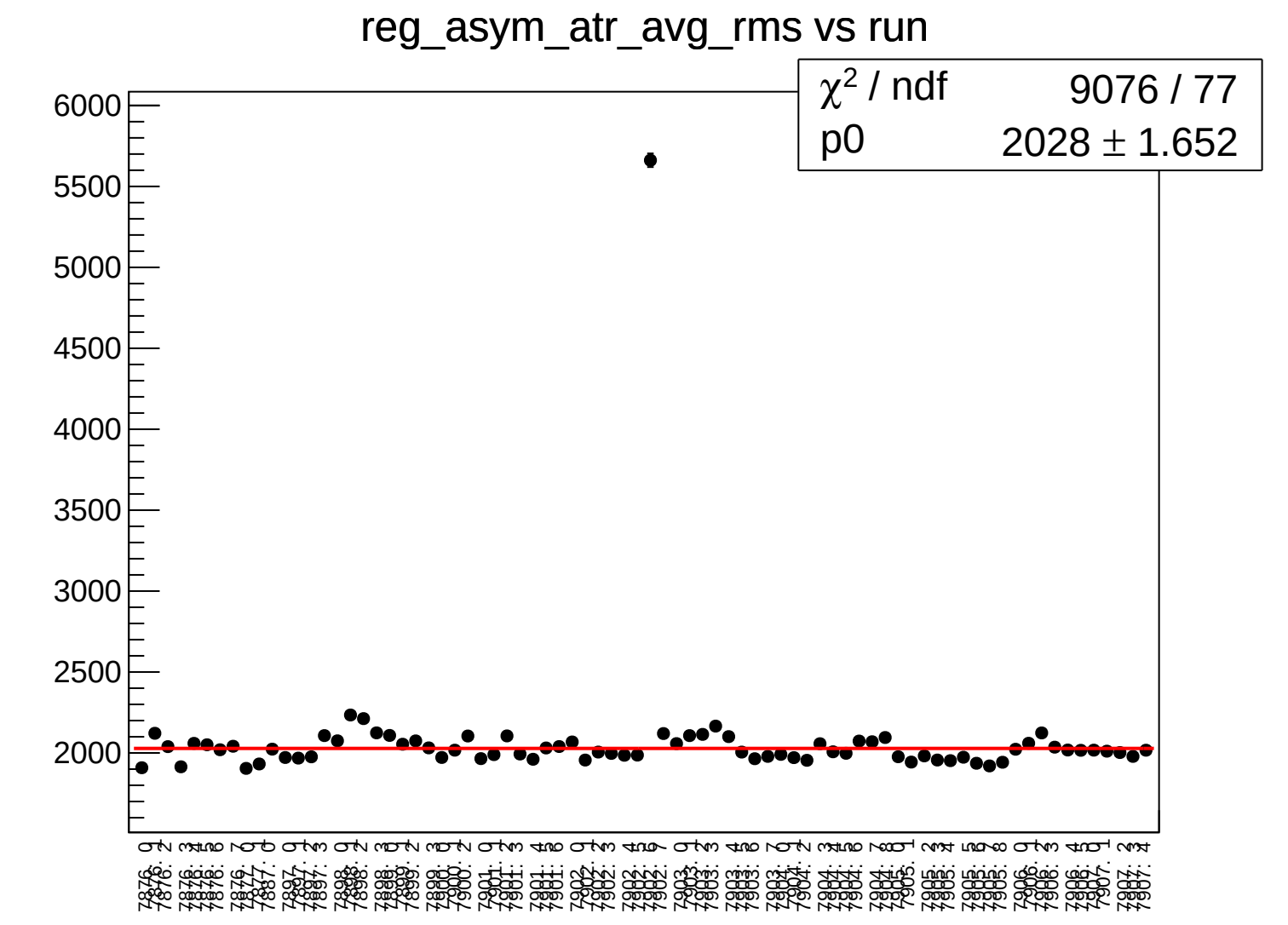

asym_atl_dd_mean vs run
×10^3
χ² / ndf 75.43 / 77
p0 7400 ± 5871
pull
Entries 78
Mean −1159
Std Dev 1203

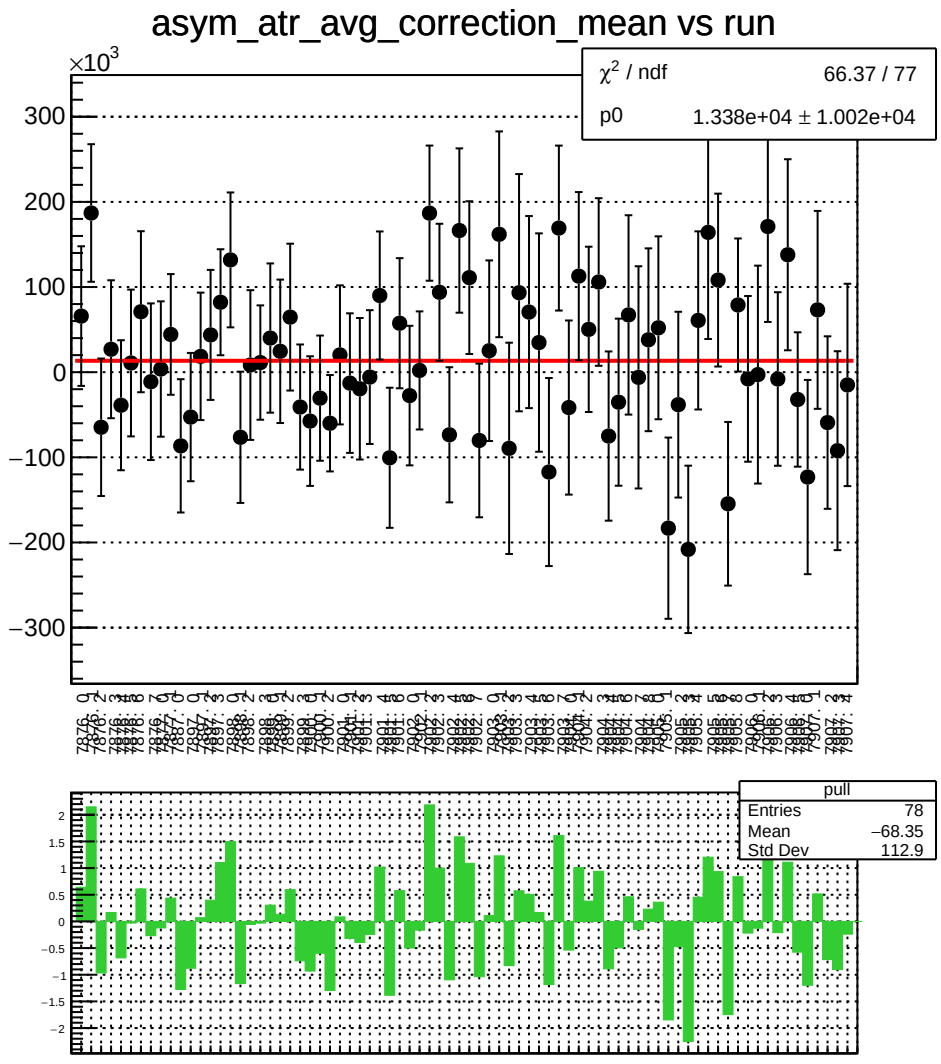

pull1D
Entries 78
Mean 0.001857
Std Dev 0.9834

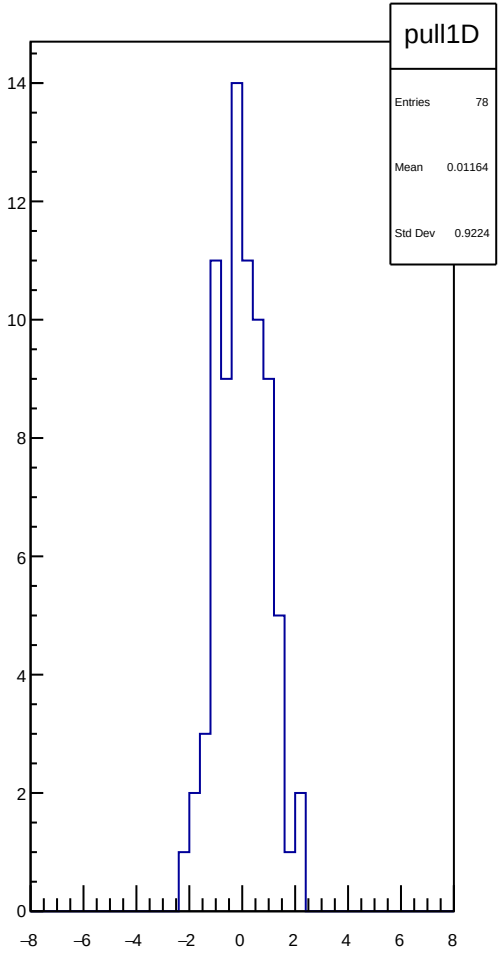

asym_atl_dd_rms vs run
χ² / ndf 1.925e+04 / 77
p0 5079 ± 4.151
8000
7500
7000
6500
6000
5500
5000
4500
4000

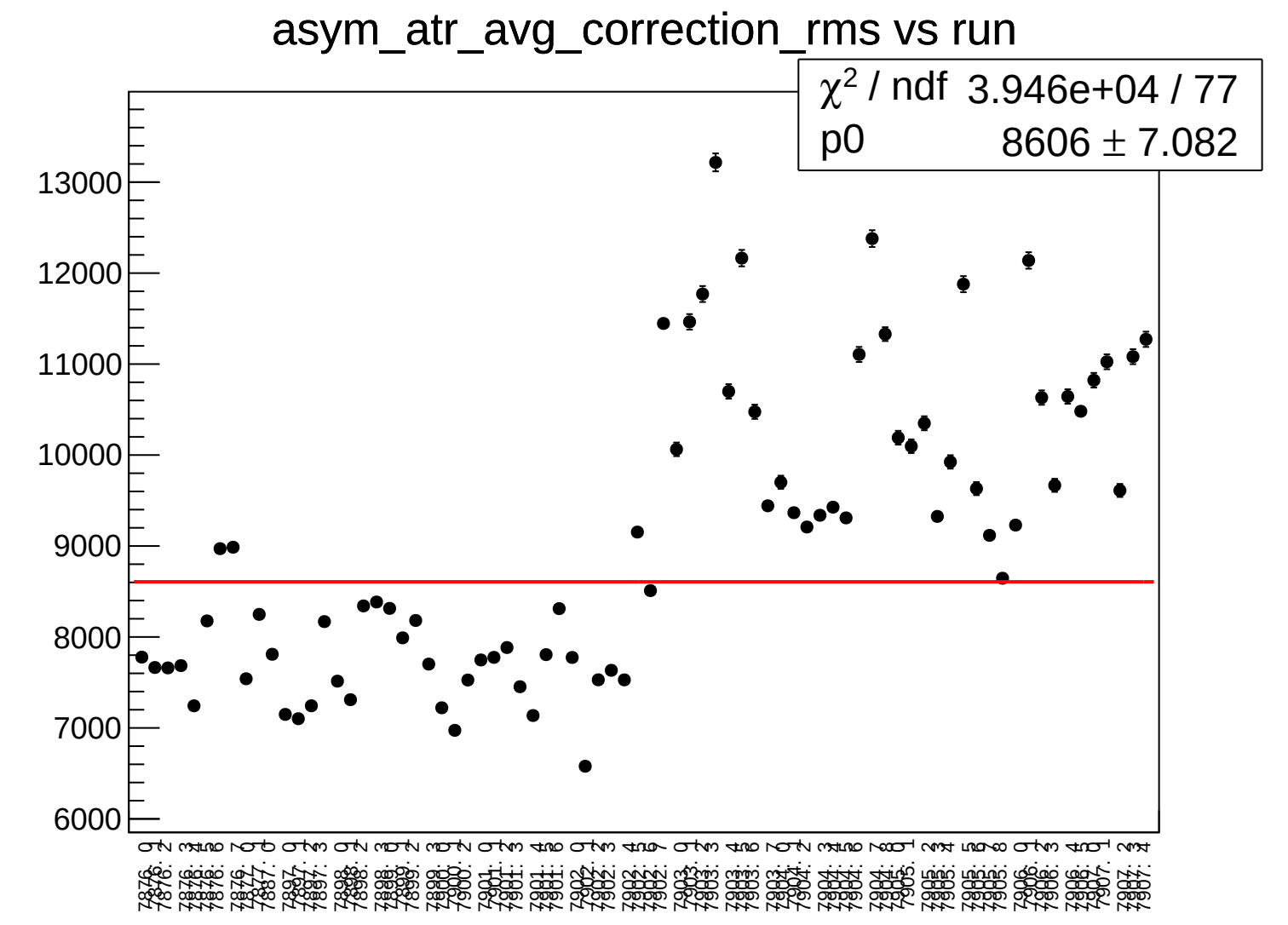

reg_asym_atr_avg_mean vs run
×10^3
χ² / ndf 86.18 / 77
p0 743.9 ± 2336
100
50
0
−50
−100
pull
Entries 78
Mean 35.83
Std Dev 45.96
3
2
1
0
−1
−2

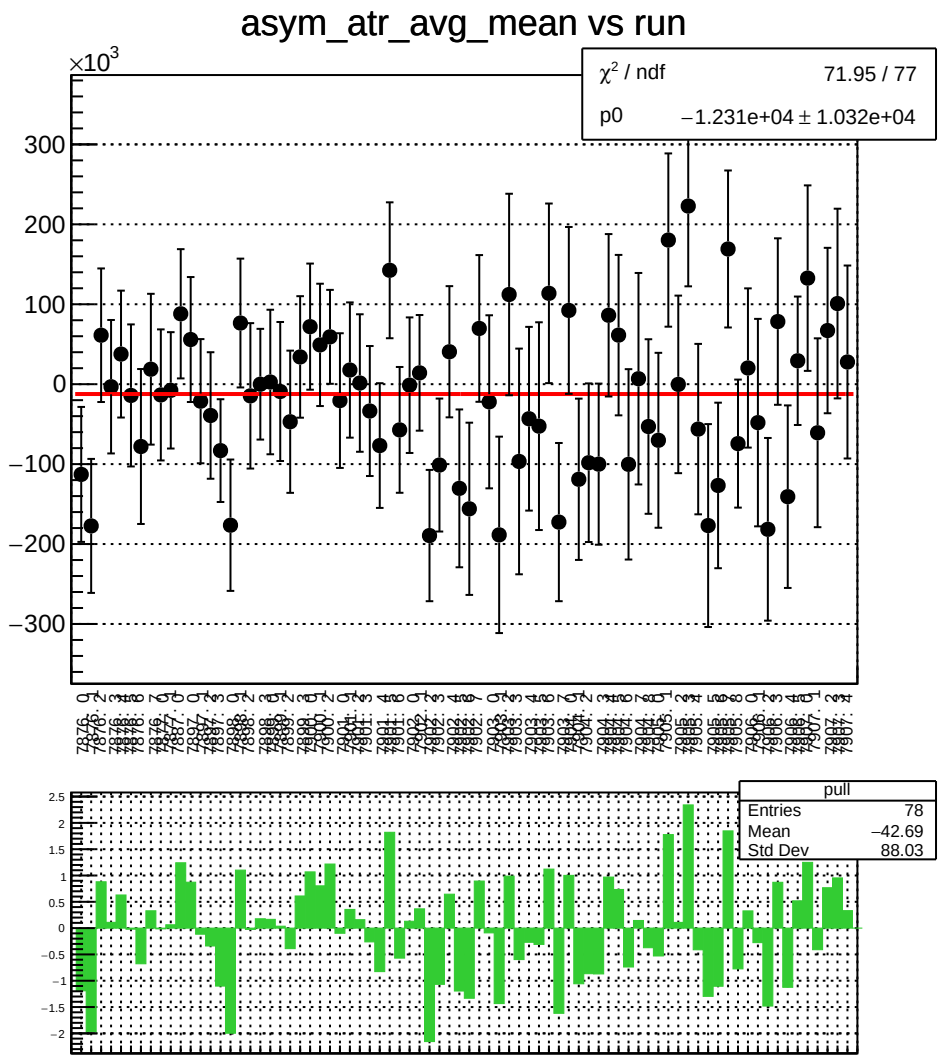

pull1D
Entries 78
Mean −0.00979
Std Dev 1.051
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

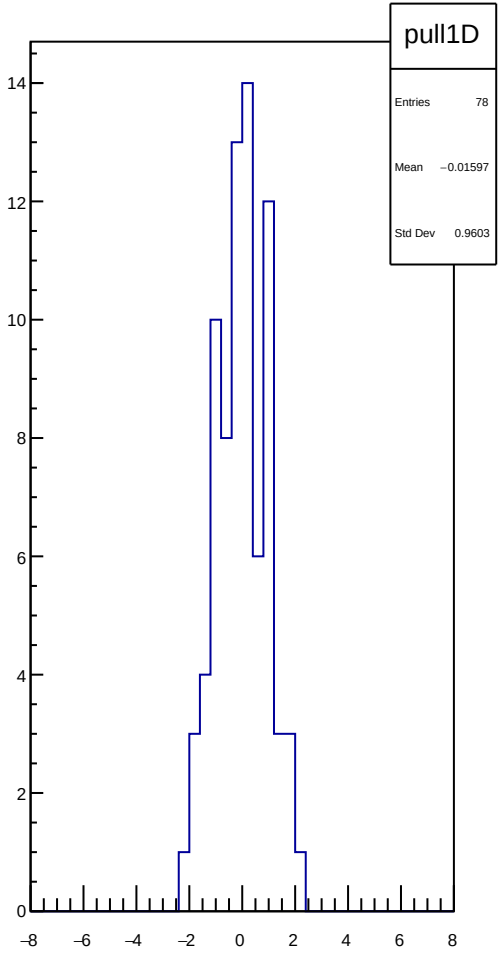

reg_asym_atr_avg_rms vs run
χ^2 / ndf 9076 / 77
p0 2028 ± 1.652
6000
5500
5000
4500
4000
3500
3000
2500
2000

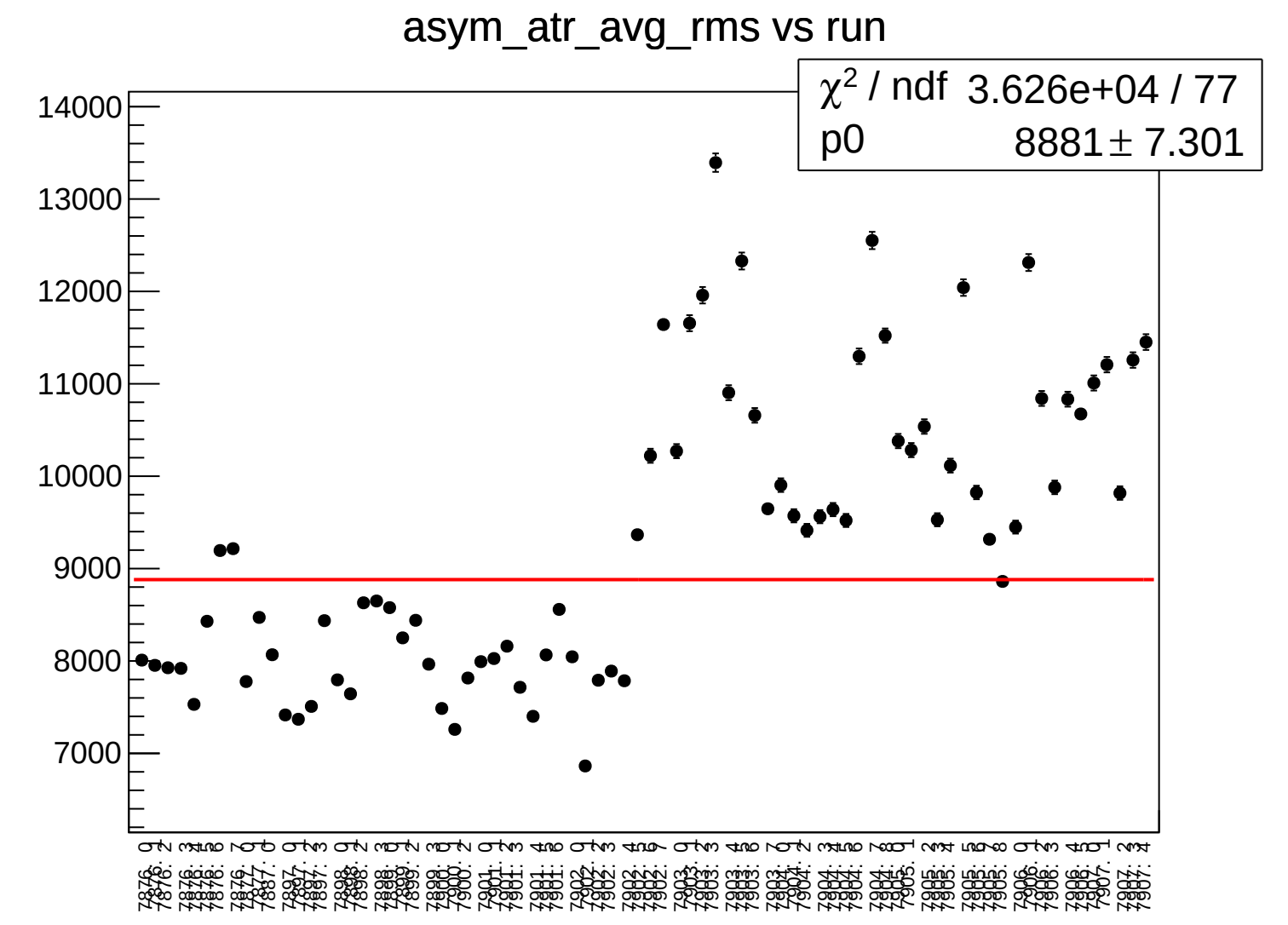

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 66.37 / 77
p0 1.338e+04 ± 1.002e+04
pull
Entries 78
Mean −68.35
Std Dev 112.9

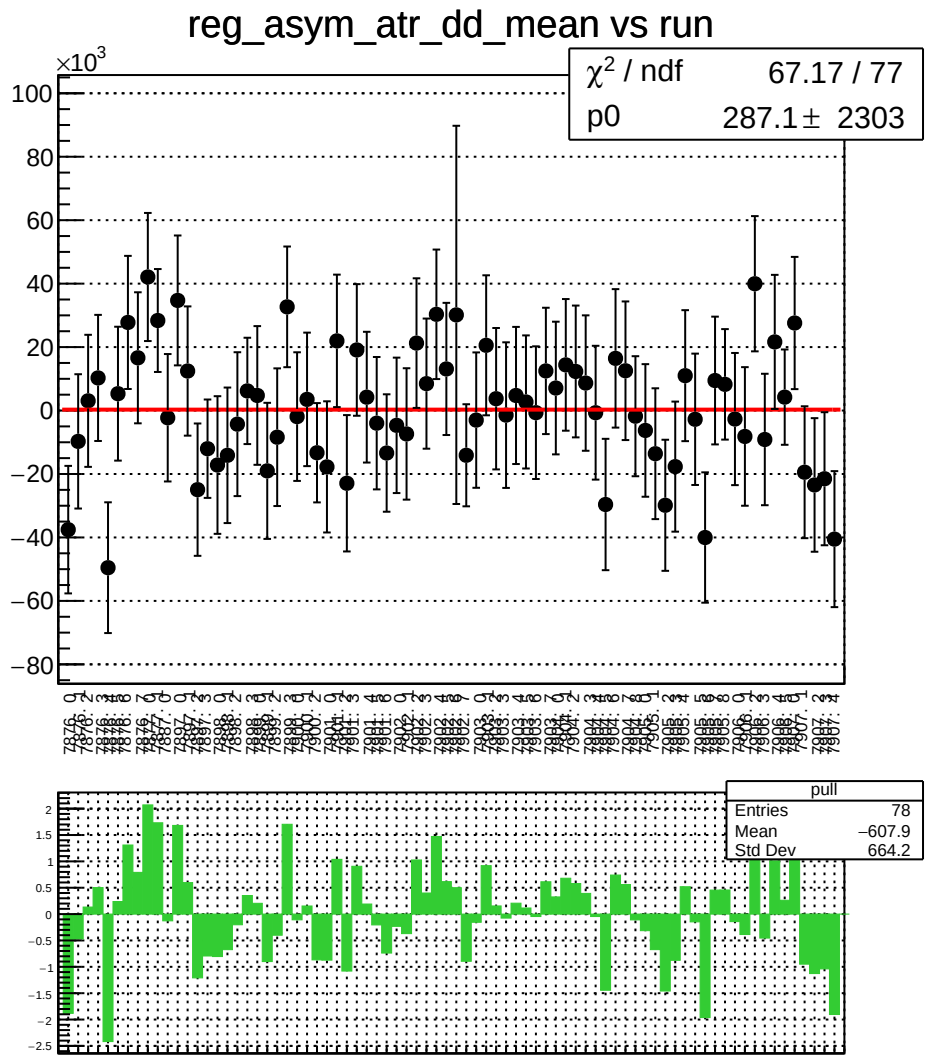

pull1D
Entries 78
Mean 0.01164
Std Dev 0.9224

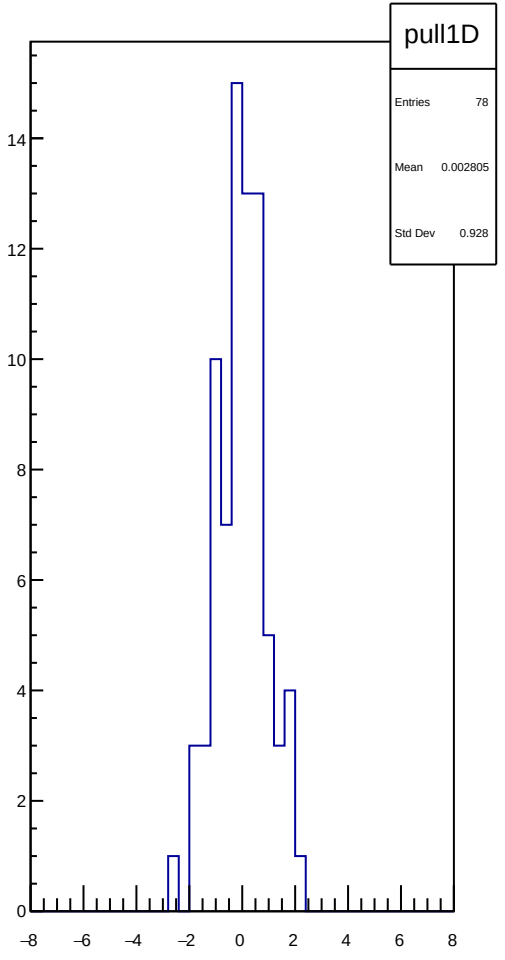

asym_atr_avg_correction_rms vs run
χ² / ndf 3.946e+04 / 77
p0 8606 ± 7.082
13000
12000
11000
10000
9000
8000
7000
6000

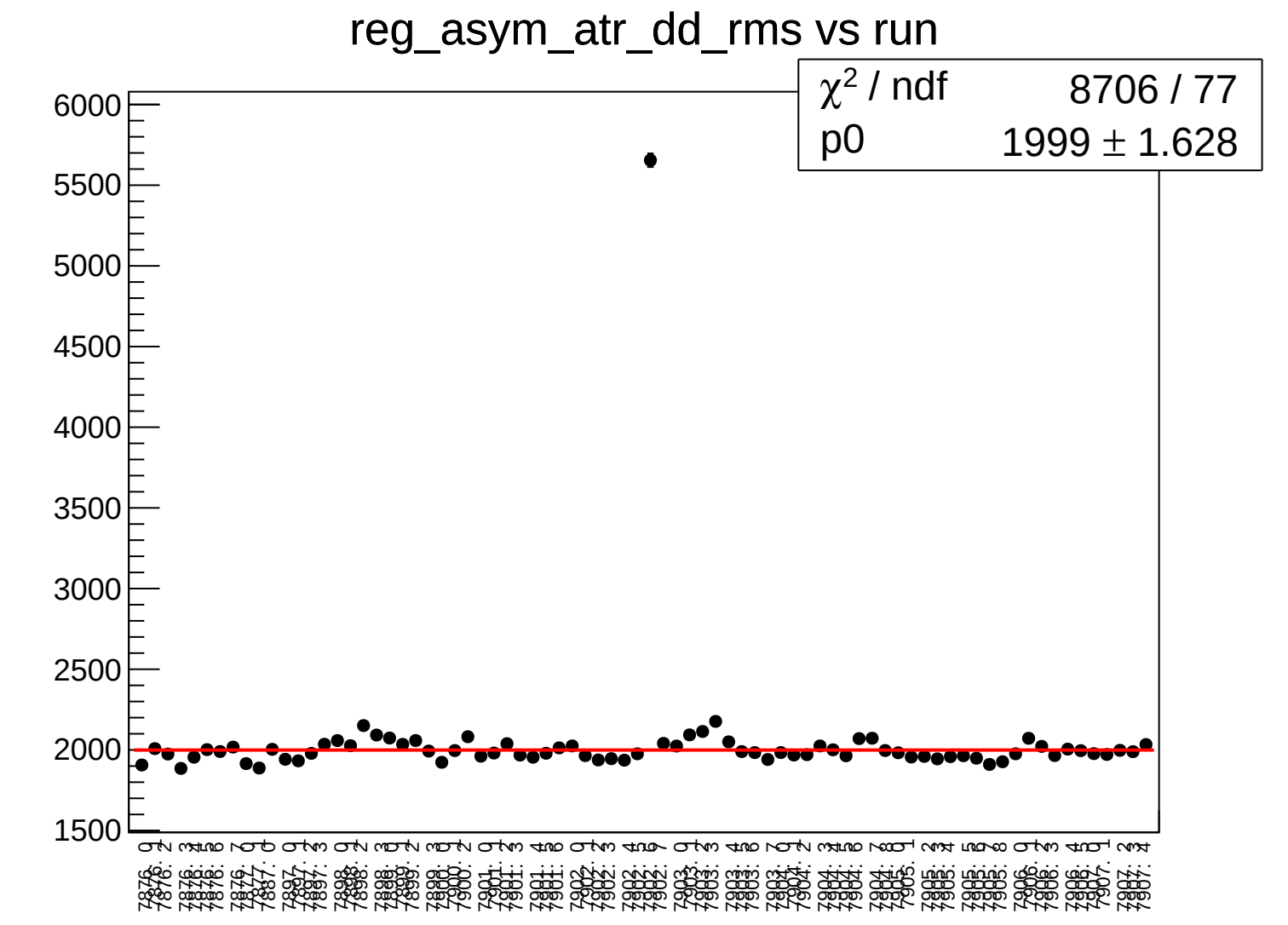

asym_atr_avg_mean vs run
×10^3
χ² / ndf 71.95 / 77
p0 −1.231e+04 ± 1.032e+04
300
200
100
0
−100
−200
−300
pull
Entries 78
Mean −42.69
Std Dev 88.03
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

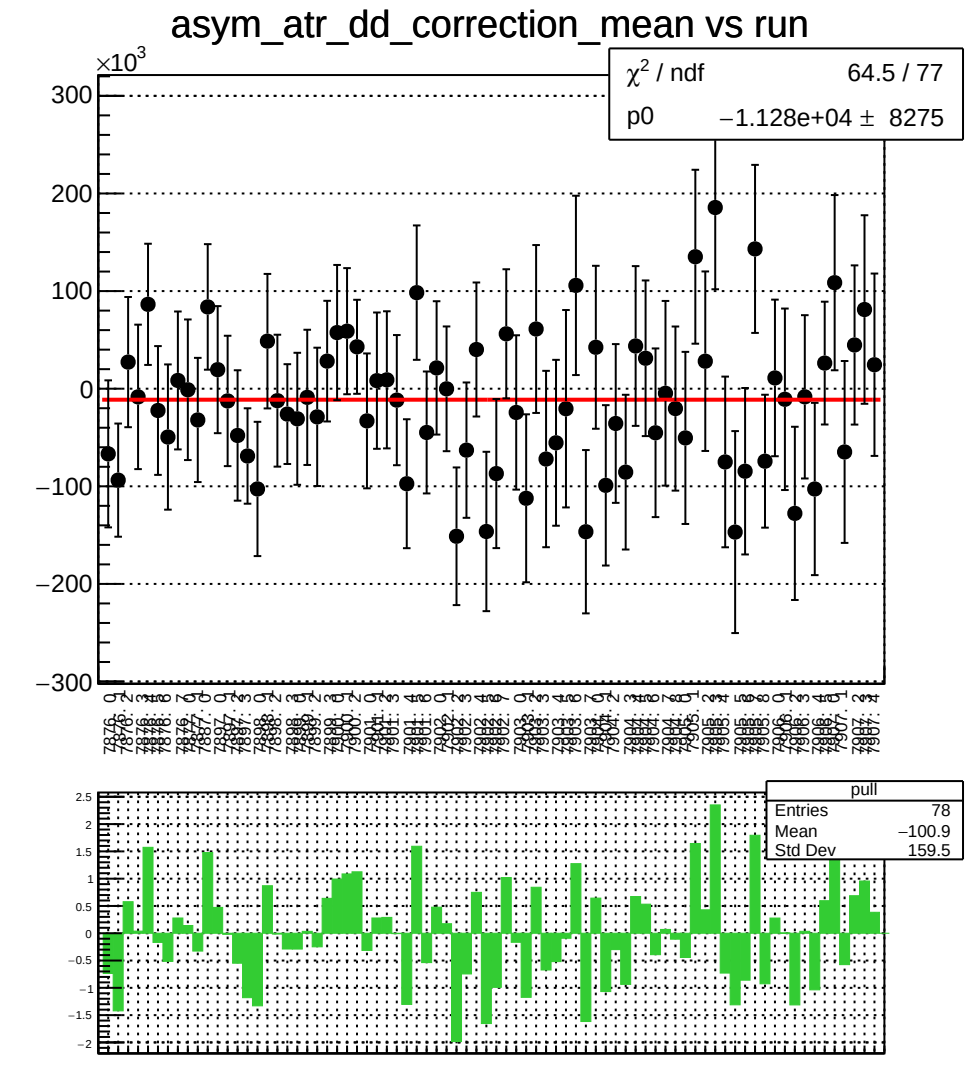

pull1D
Entries 78
Mean −0.01597
Std Dev 0.9603
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

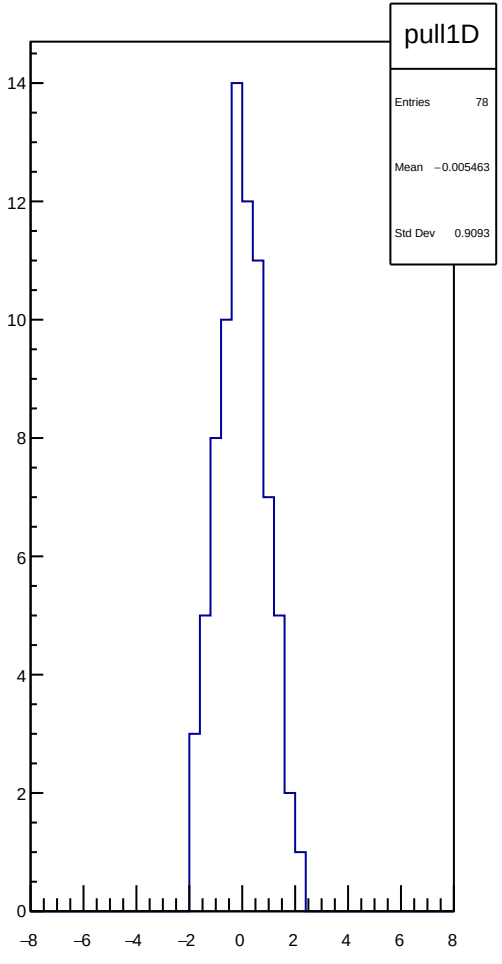

asym_atr_avg_rms vs run
χ^2 / ndf 3.626e+04 / 77
p0 8881 ± 7.301
14000
13000
12000
11000
10000
9000
8000
7000

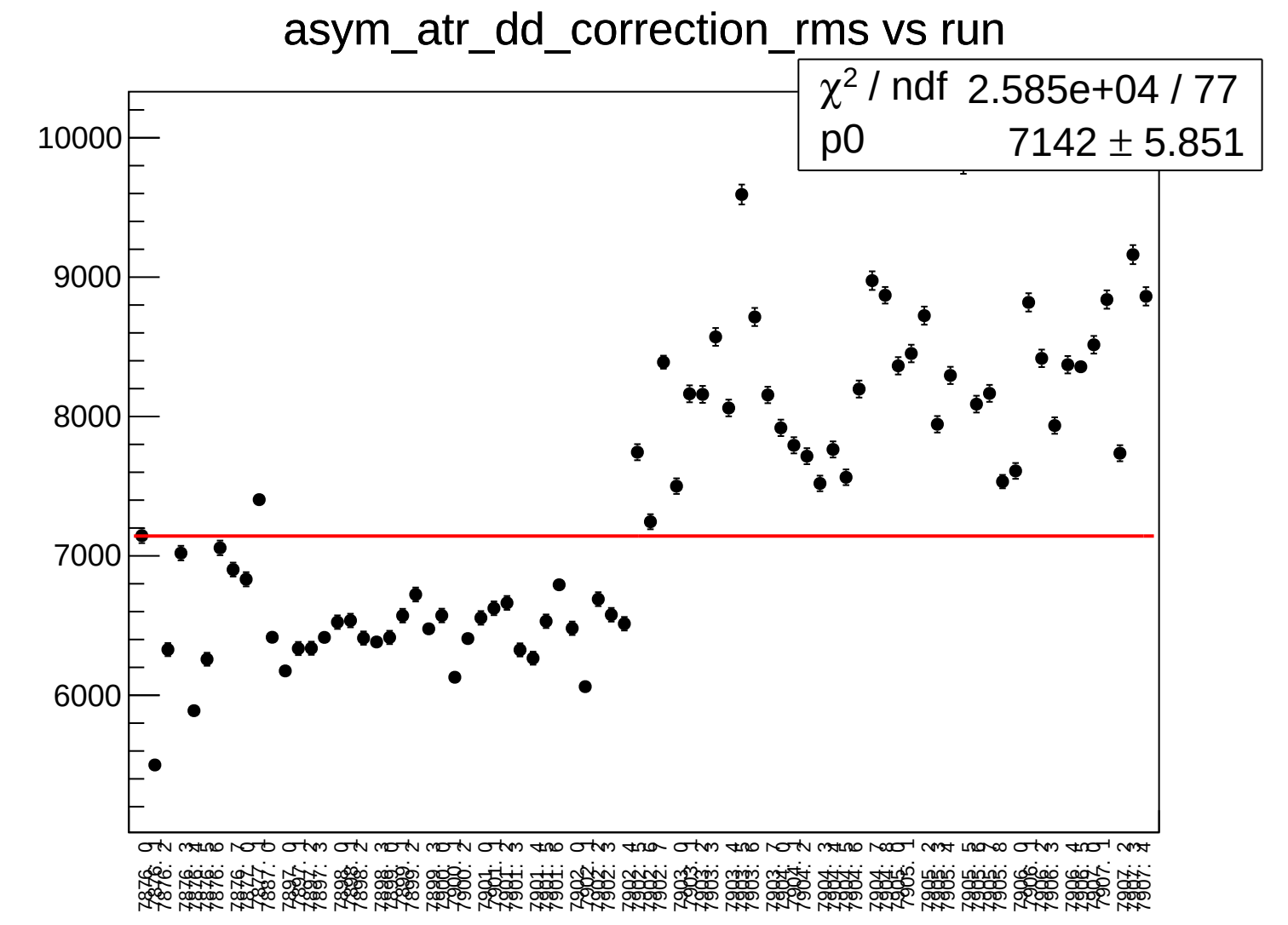

reg_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 67.17 / 77
p0 287.1± 2303
pull
Entries 78
Mean −607.9
Std Dev 664.2

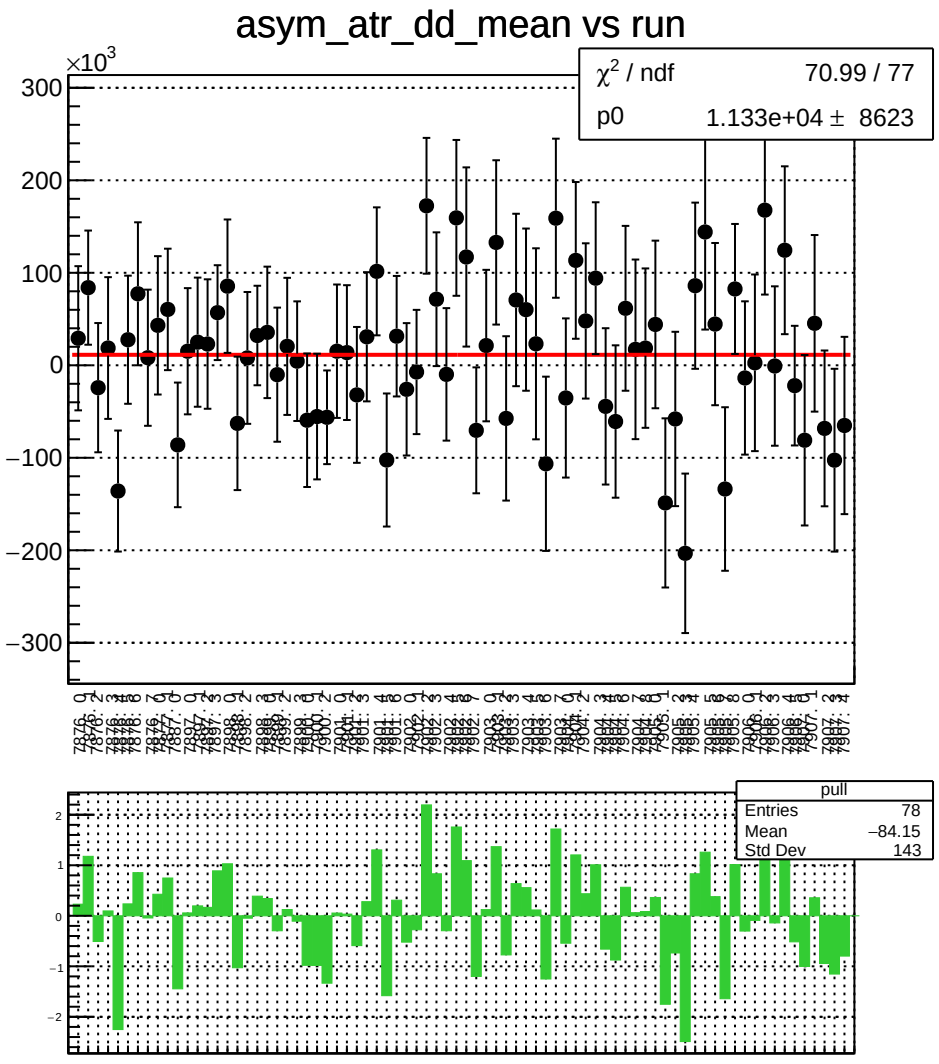

pull1D
Entries 78
Mean 0.002805
Std Dev 0.928

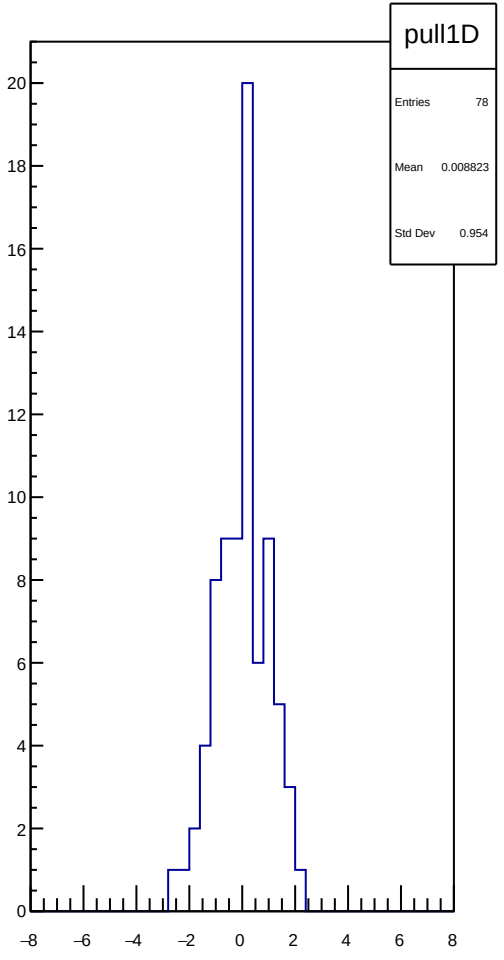

reg_asym_atr_dd_rms vs run
χ^2 / ndf 8706 / 77
p0 1999 ± 1.628
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

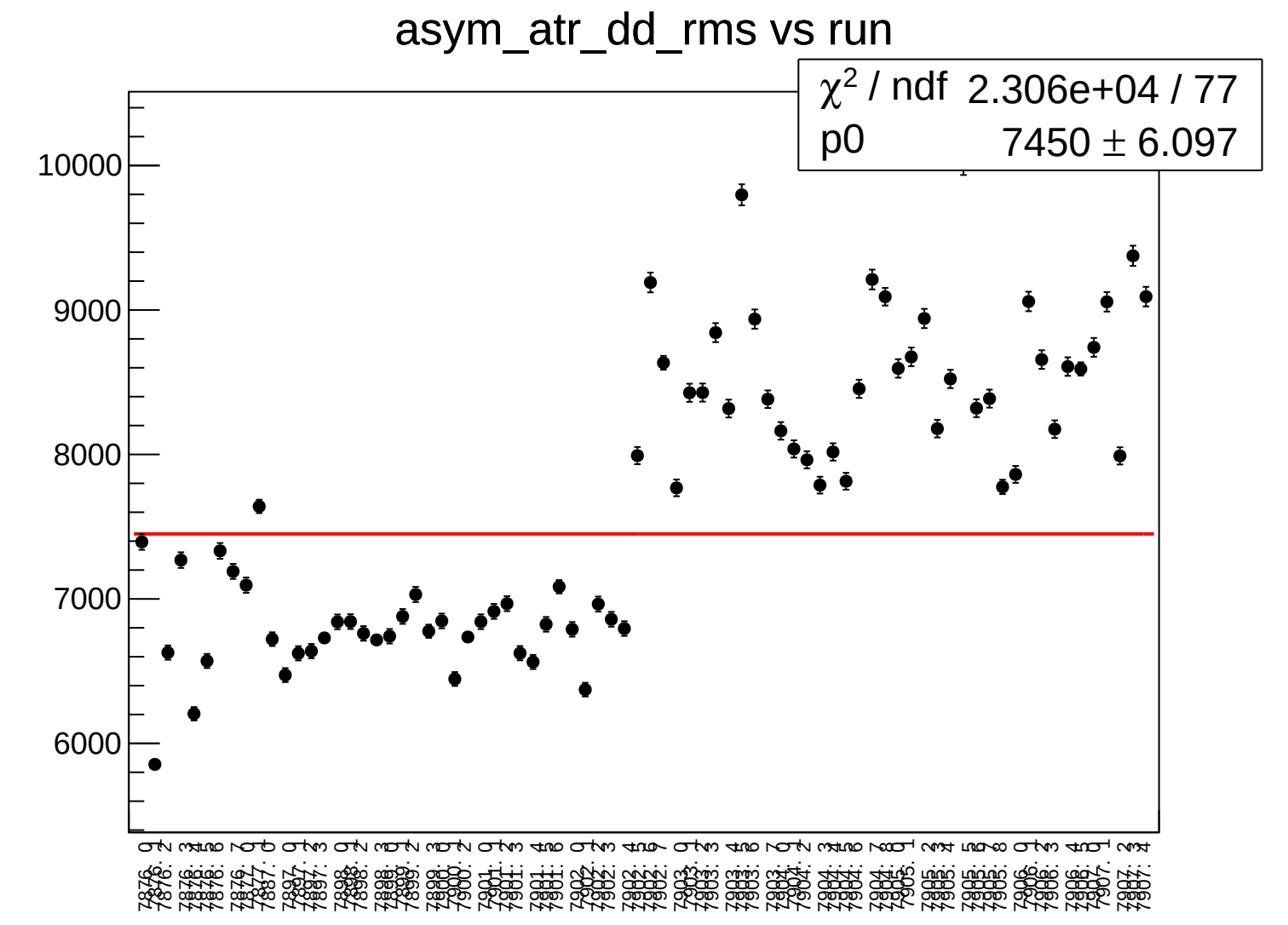

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 64.5 / 77
p0 −1.128e+04 ± 8275
pull
Entries 78
Mean −100.9
Std Dev 159.5

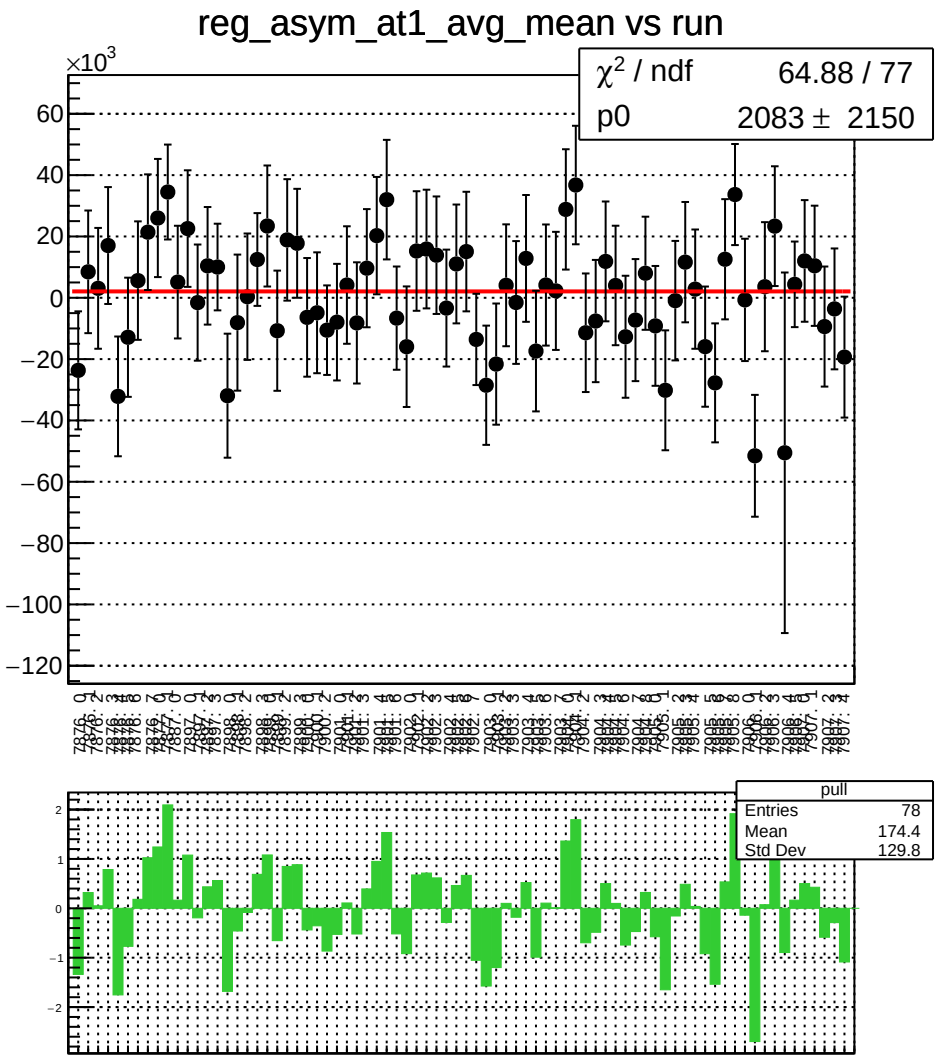

pull1D
Entries 78
Mean −0.005463
Std Dev 0.9093

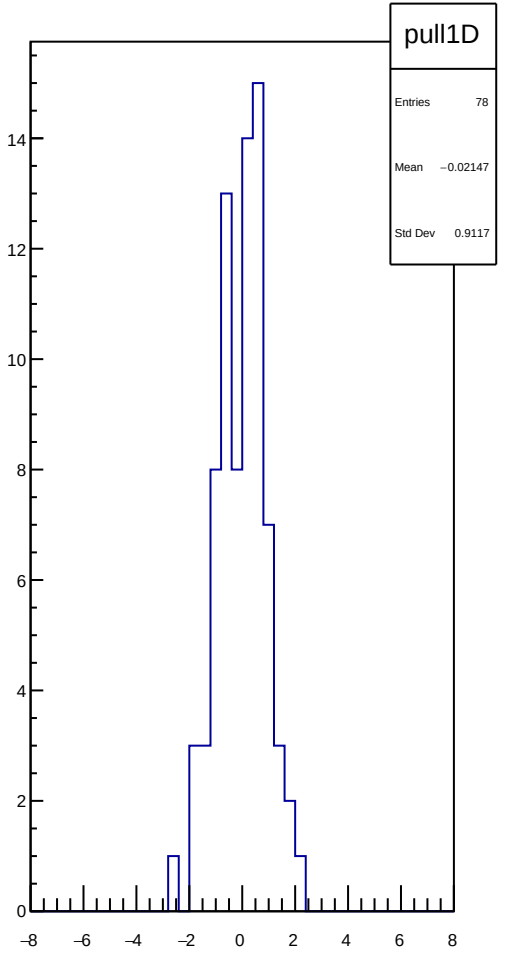

asym_atr_dd_correction_rms vs run
χ² / ndf 2.585e+04 / 77
p0 7142 ± 5.851
10000
9000
8000
7000
6000

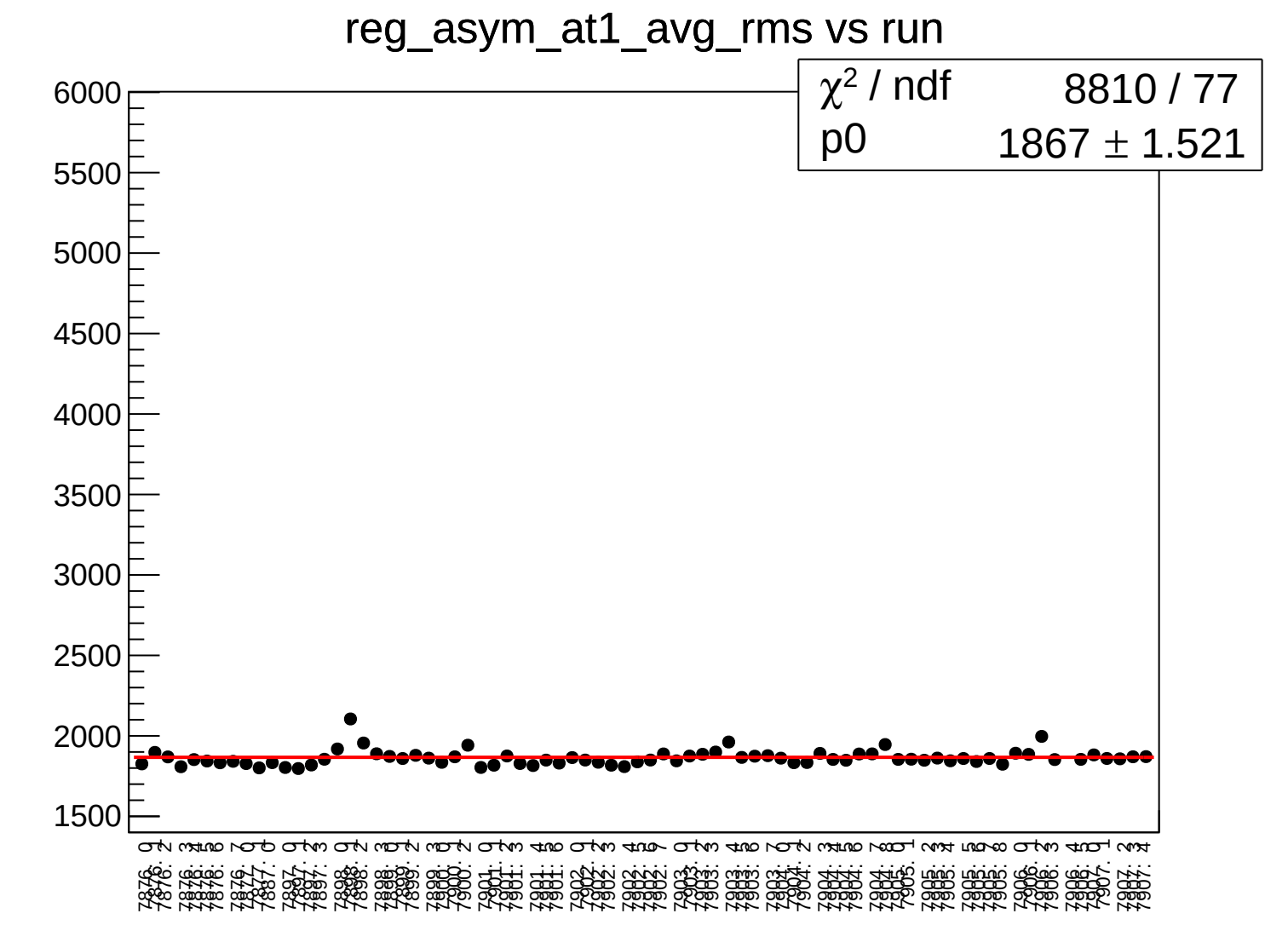

asym_atr_dd_mean vs run
×10^3
χ² / ndf 70.99 / 77
p0 1.133e+04 ± 8623
pull
Entries 78
Mean −84.15
Std Dev 143

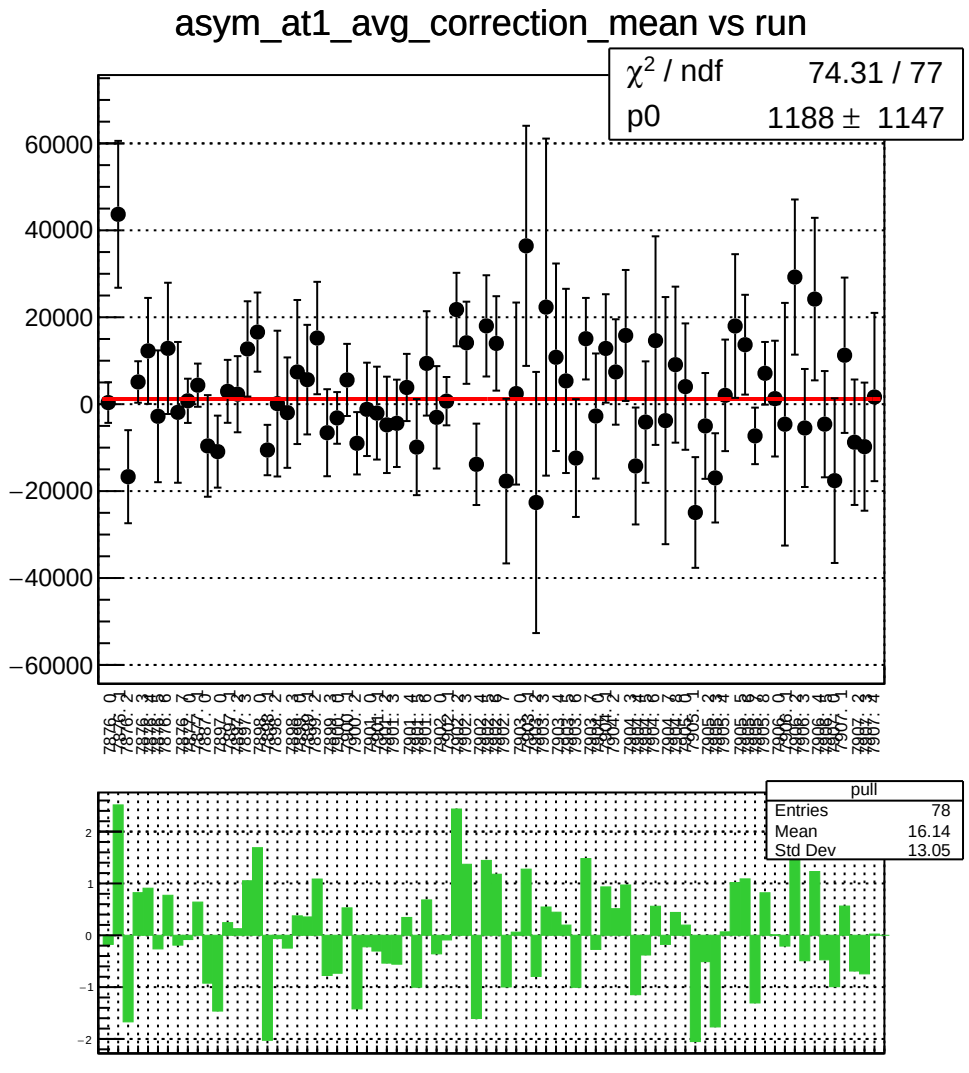

pull1D
Entries 78
Mean 0.008823
Std Dev 0.954

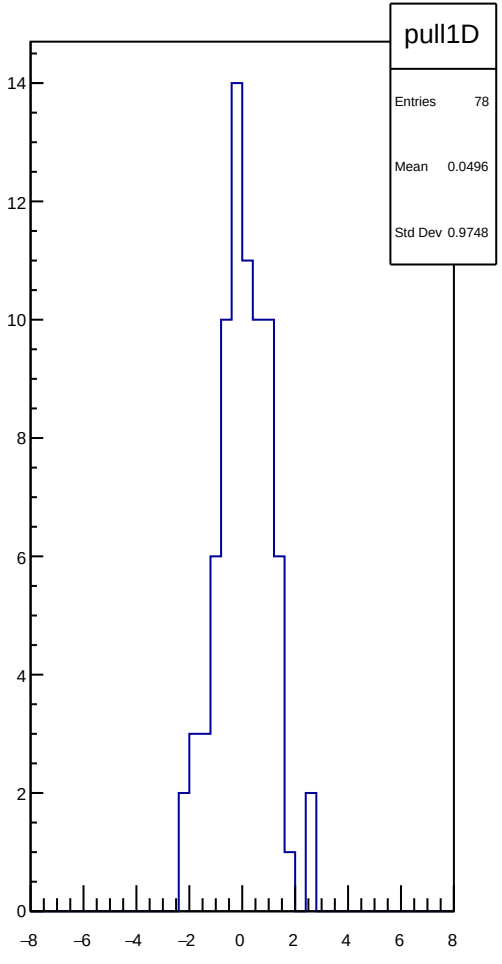

asym_atr_dd_rms vs run
χ² / ndf 2.306e+04 / 77
p0 7450 ± 6.097
10000
9000
8000
7000
6000

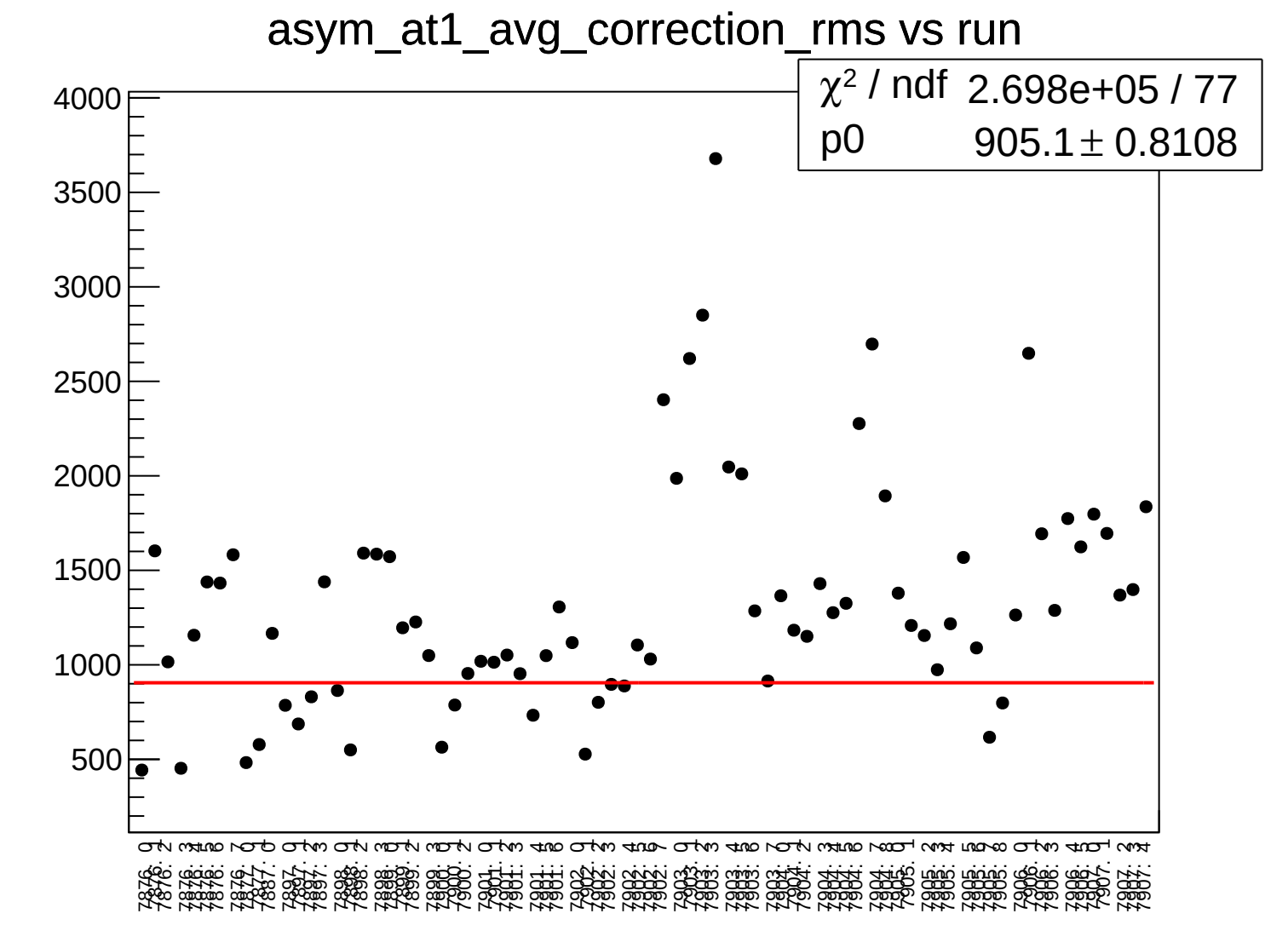

reg_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 64.88 / 77
p0 2083 ± 2150
pull
Entries 78
Mean 174.4
Std Dev 129.8

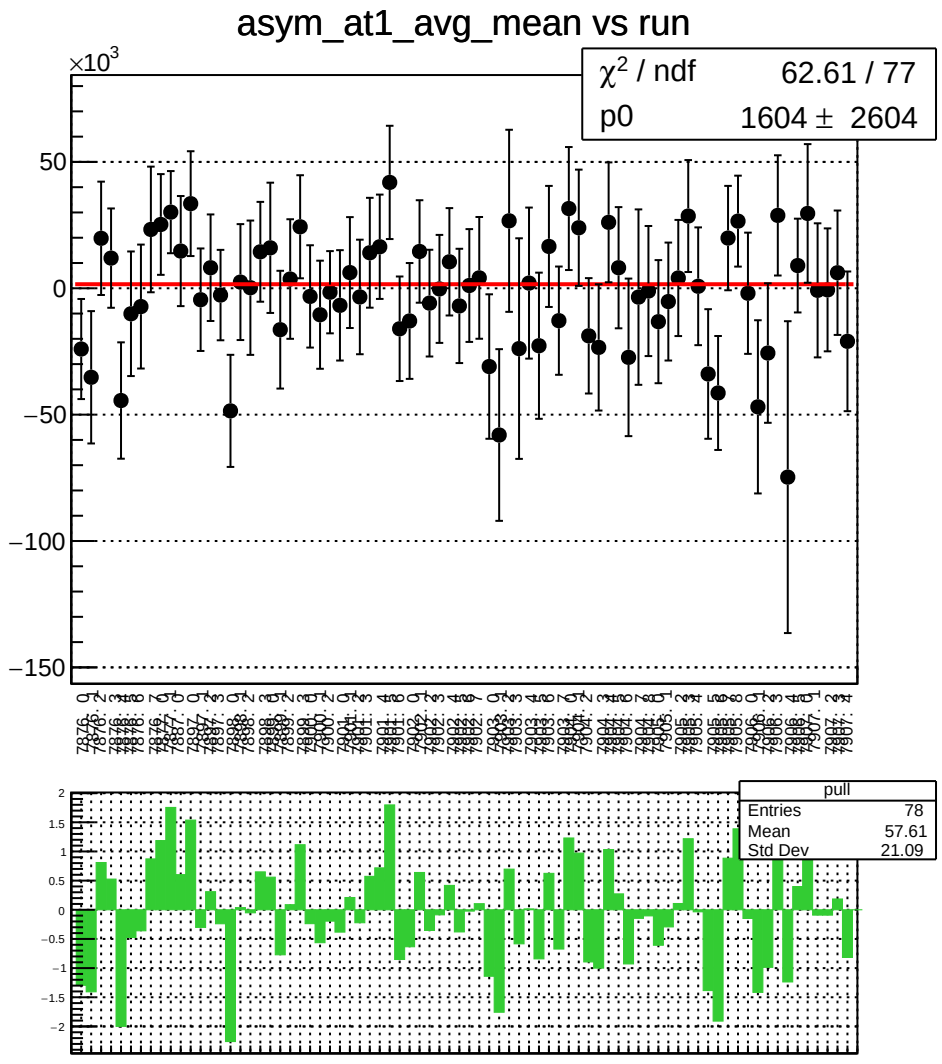

pull1D
Entries 78
Mean −0.02147
Std Dev 0.9117

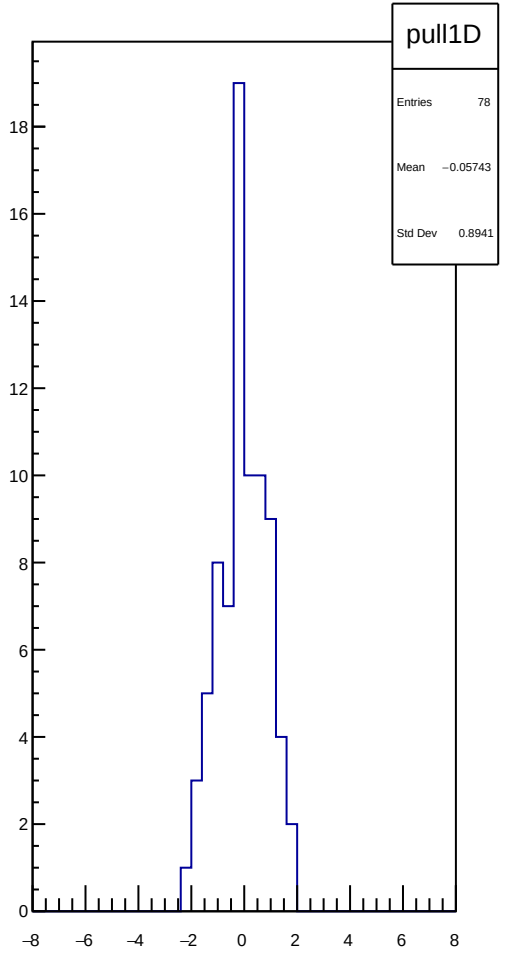

reg_asym_at1_avg_rms vs run
χ^2 / ndf 8810 / 77
p0 1867 ± 1.521
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

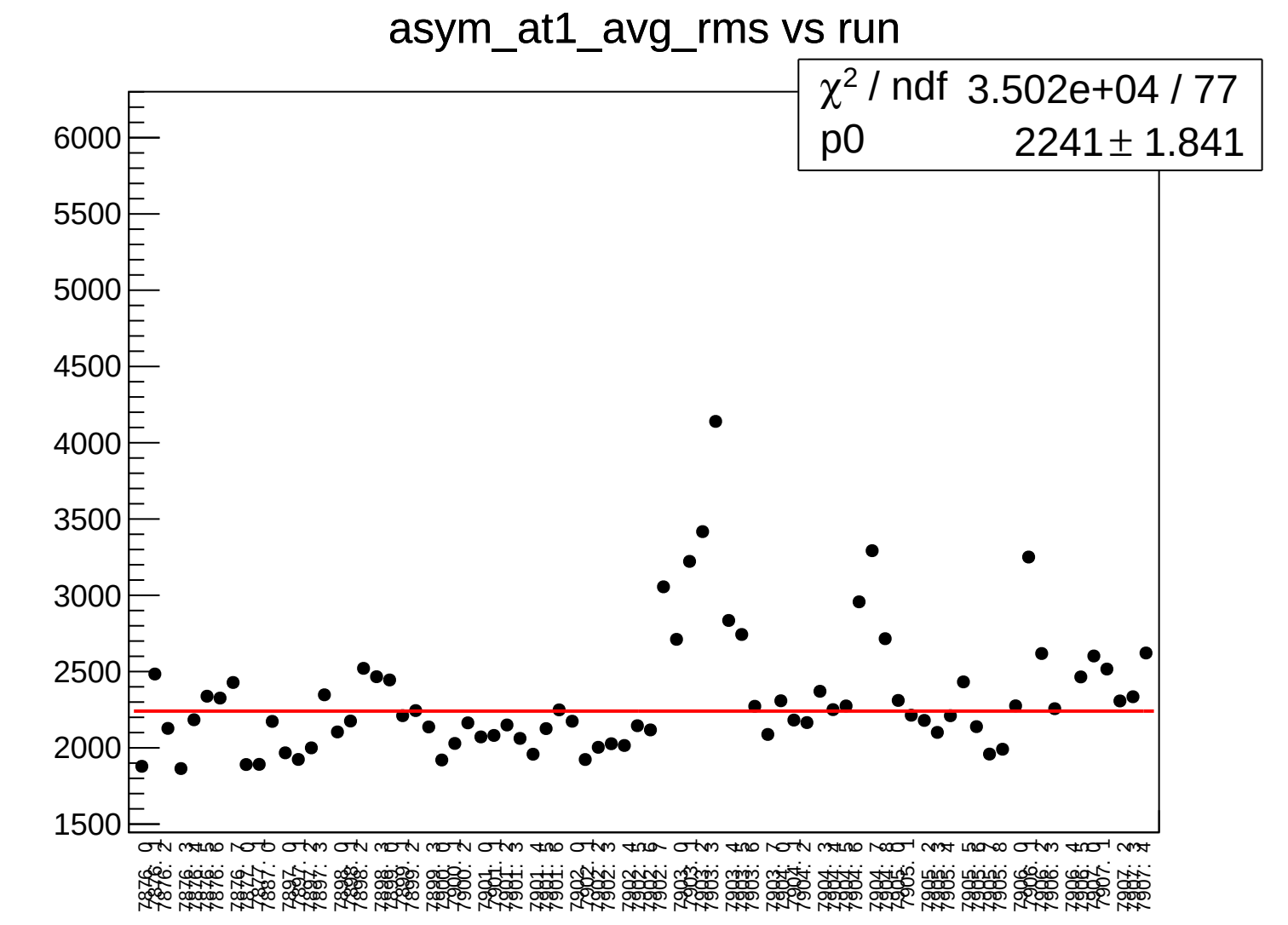

asym_at1_avg_correction_mean vs run
χ² / ndf 74.31 / 77
p0 1188 ± 1147
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean 16.14
Std Dev 13.05
2
1
0
−1
−2

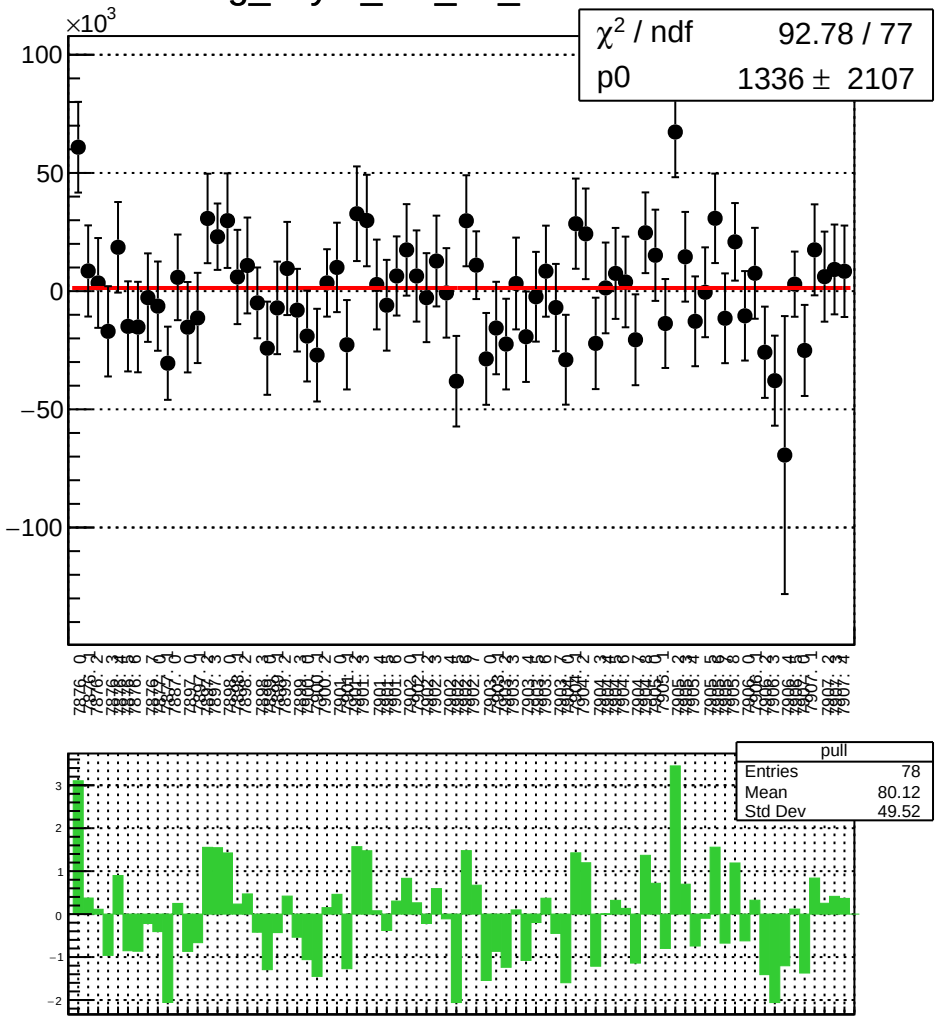

pull1D
Entries 78
Mean 0.0496
Std Dev 0.9748
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

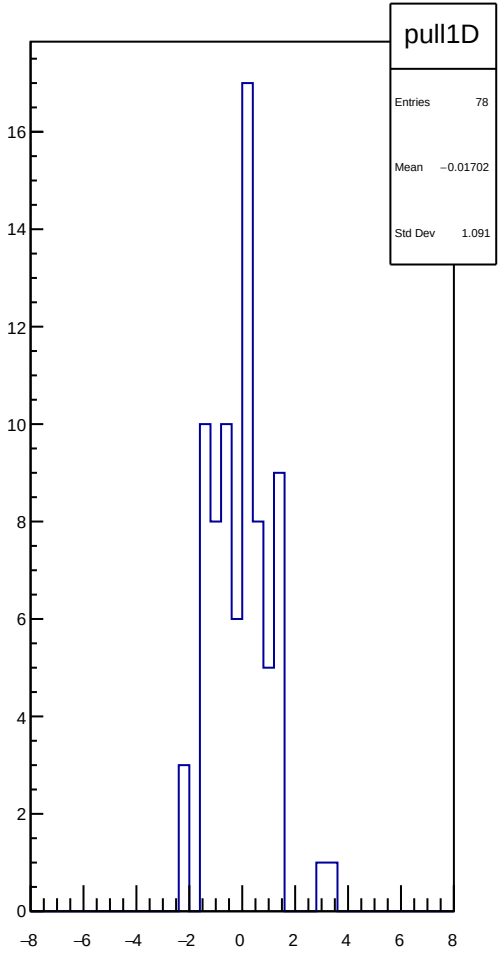

asym_at1_avg_correction_rms vs run
χ² / ndf 2.698e+05 / 77
p0 905.1 ± 0.8108
4000
3500
3000
2500
2000
1500
1000
500

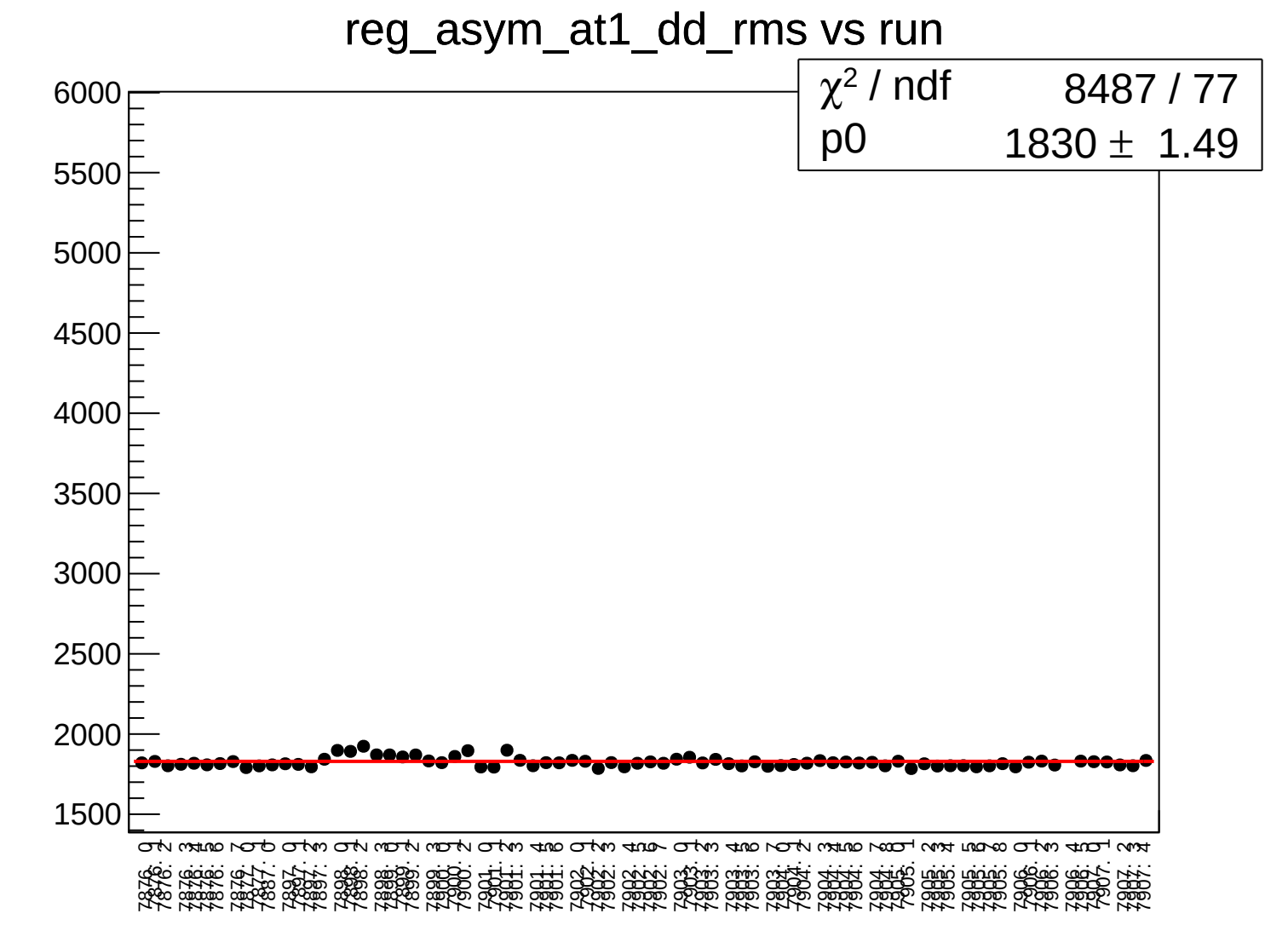

asym_at1_avg_mean vs run
×10^3
χ² / ndf 62.61 / 77
p0 1604 ± 2604
50
0
−50
−100
−150
pull
Entries 78
Mean 57.61
Std Dev 21.09
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

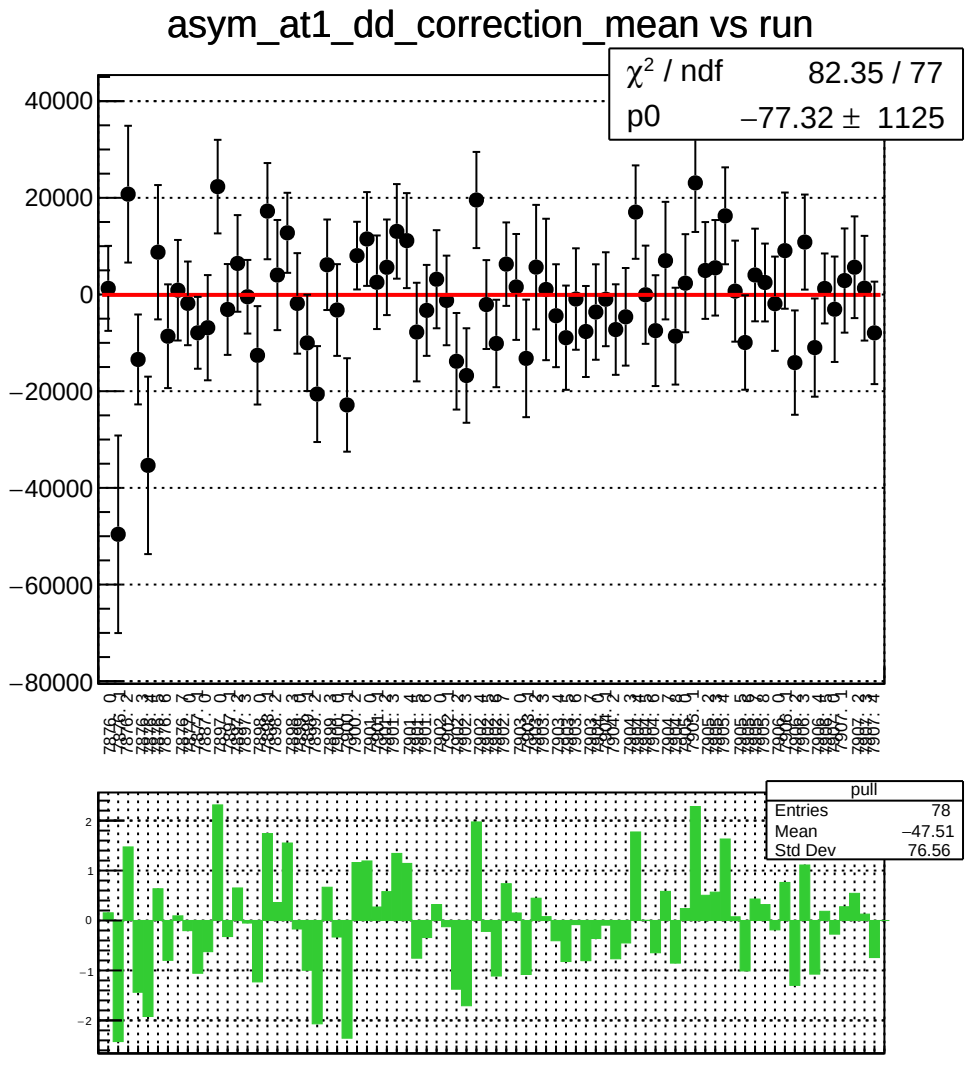

pull1D
Entries 78
Mean −0.05743
Std Dev 0.8941
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

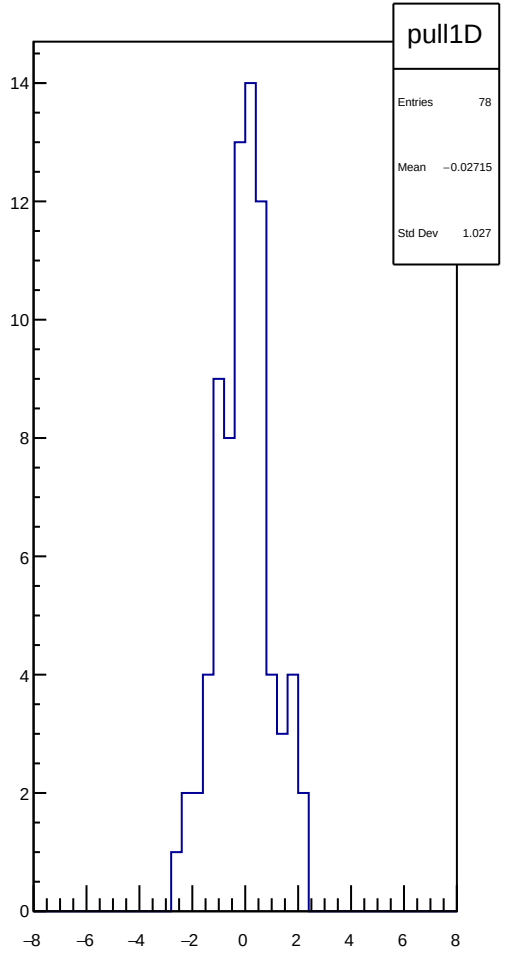

asym_at1_avg_rms vs run
χ² / ndf 3.502e+04 / 77
p0 2241 ± 1.841
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

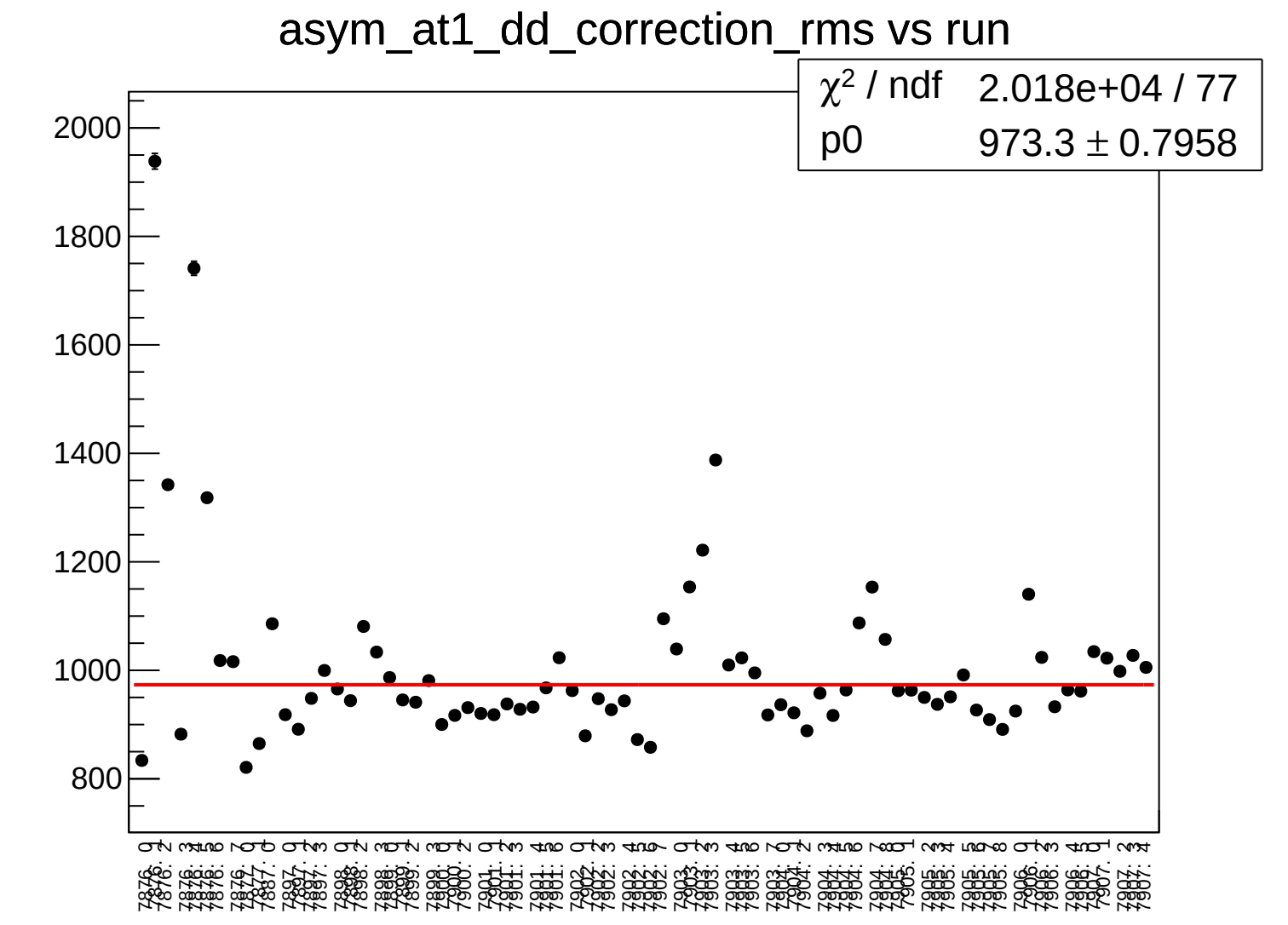

reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 92.78 / 77
p0 1336 ± 2107
100
50
0
−50
−100
pull
Entries 78
Mean 80.12
Std Dev 49.52
3
2
1
0
−1
−2

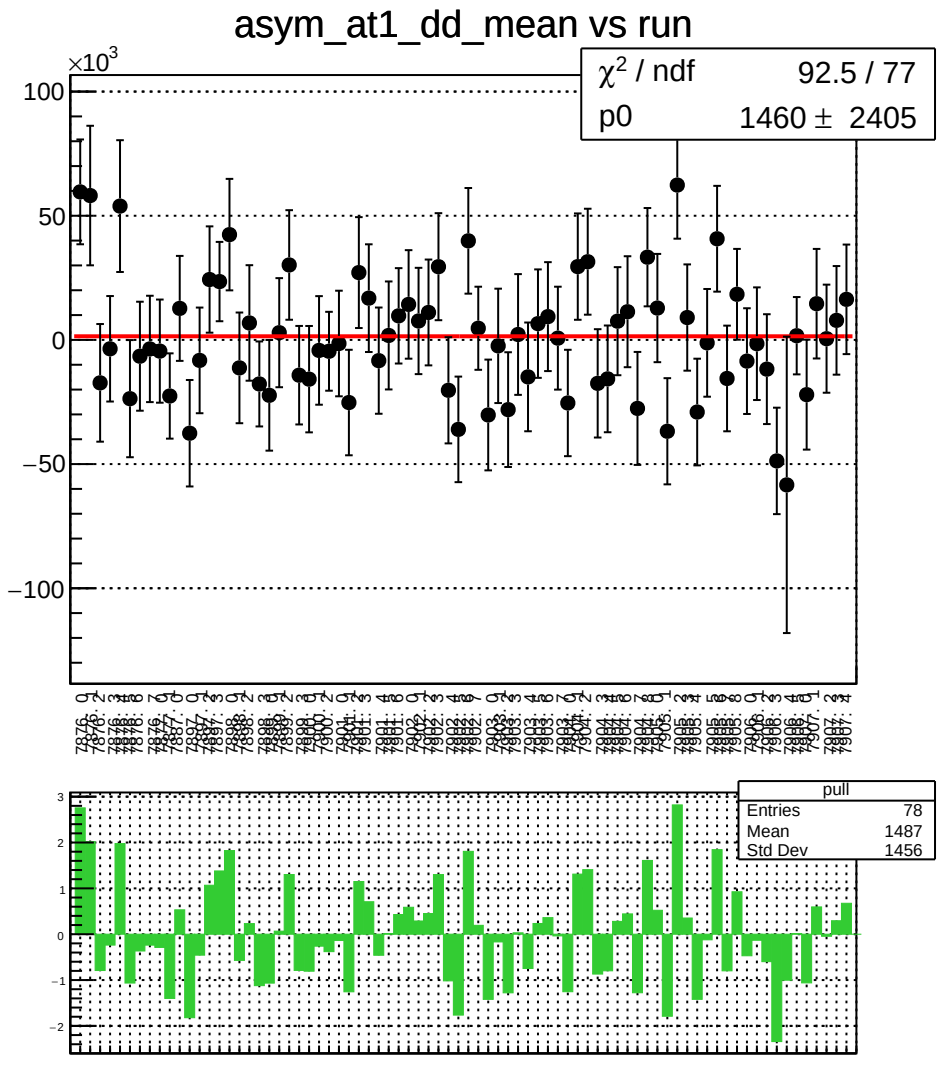

pull1D
Entries 78
Mean −0.01702
Std Dev 1.091
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

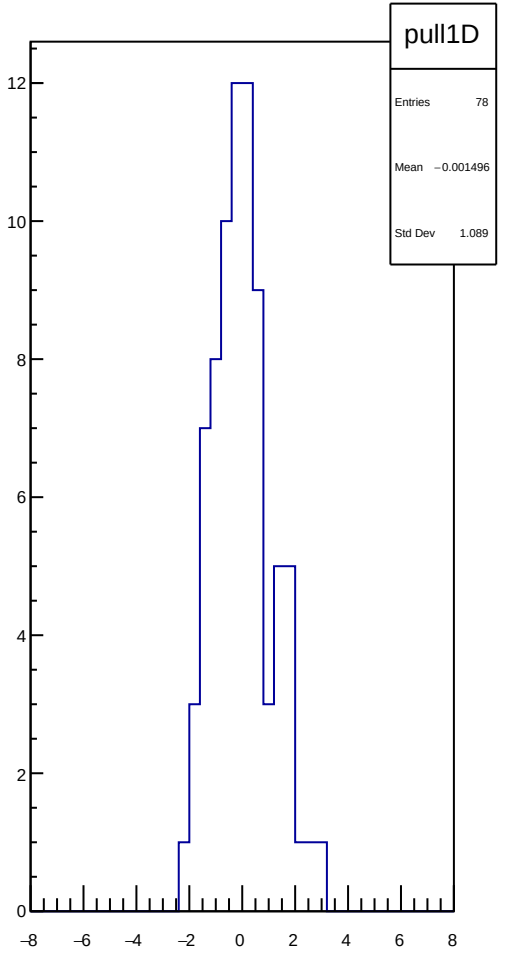

reg_asym_at1_dd_rms vs run
χ² / ndf 8487 / 77
p0 1830 ± 1.49
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

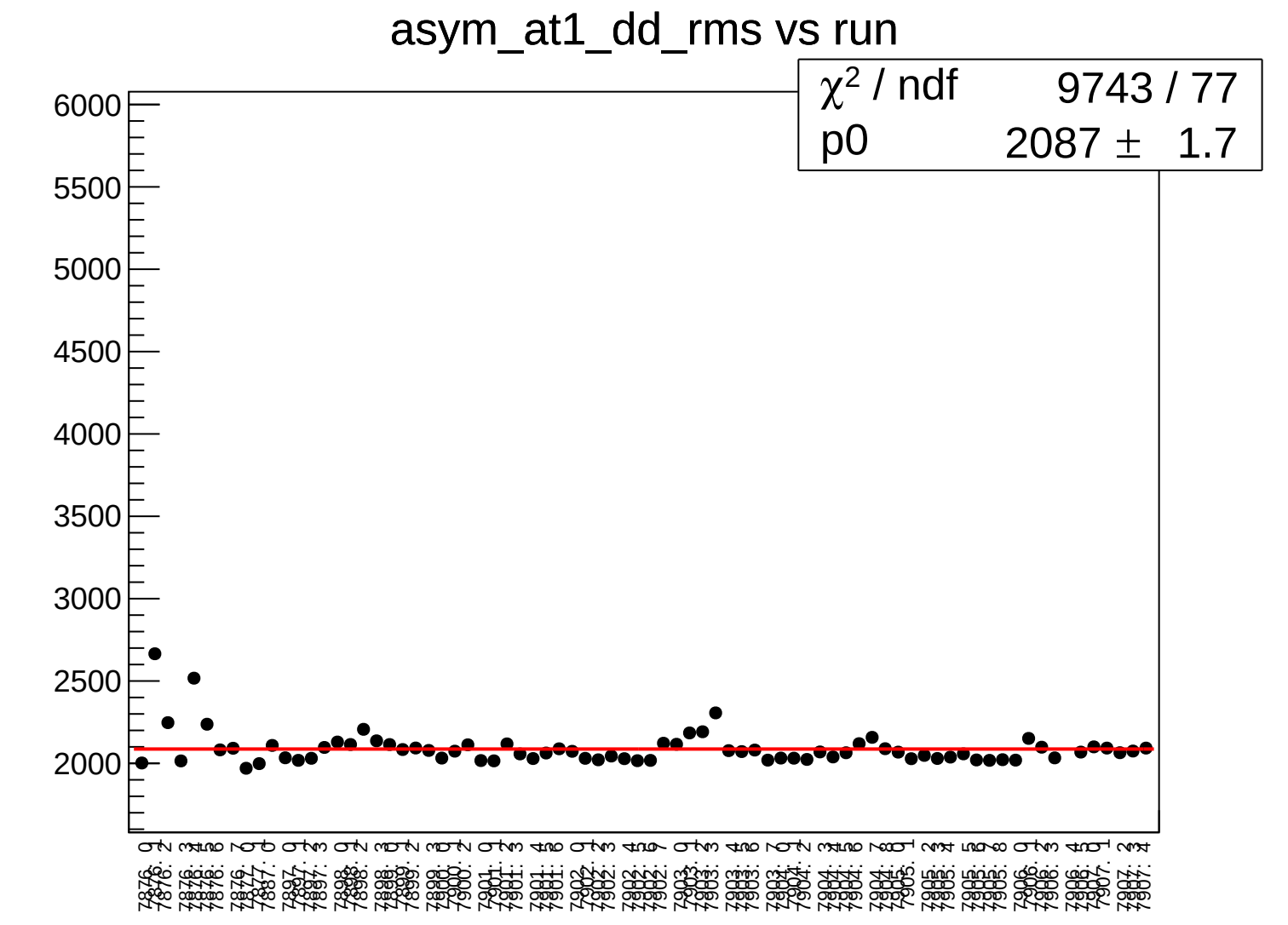

asym_at1_dd_correction_mean vs run
χ² / ndf 82.35 / 77
p0 −77.32 ± 1125
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 78
Mean −47.51
Std Dev 76.56
2
1
0
−1
−2

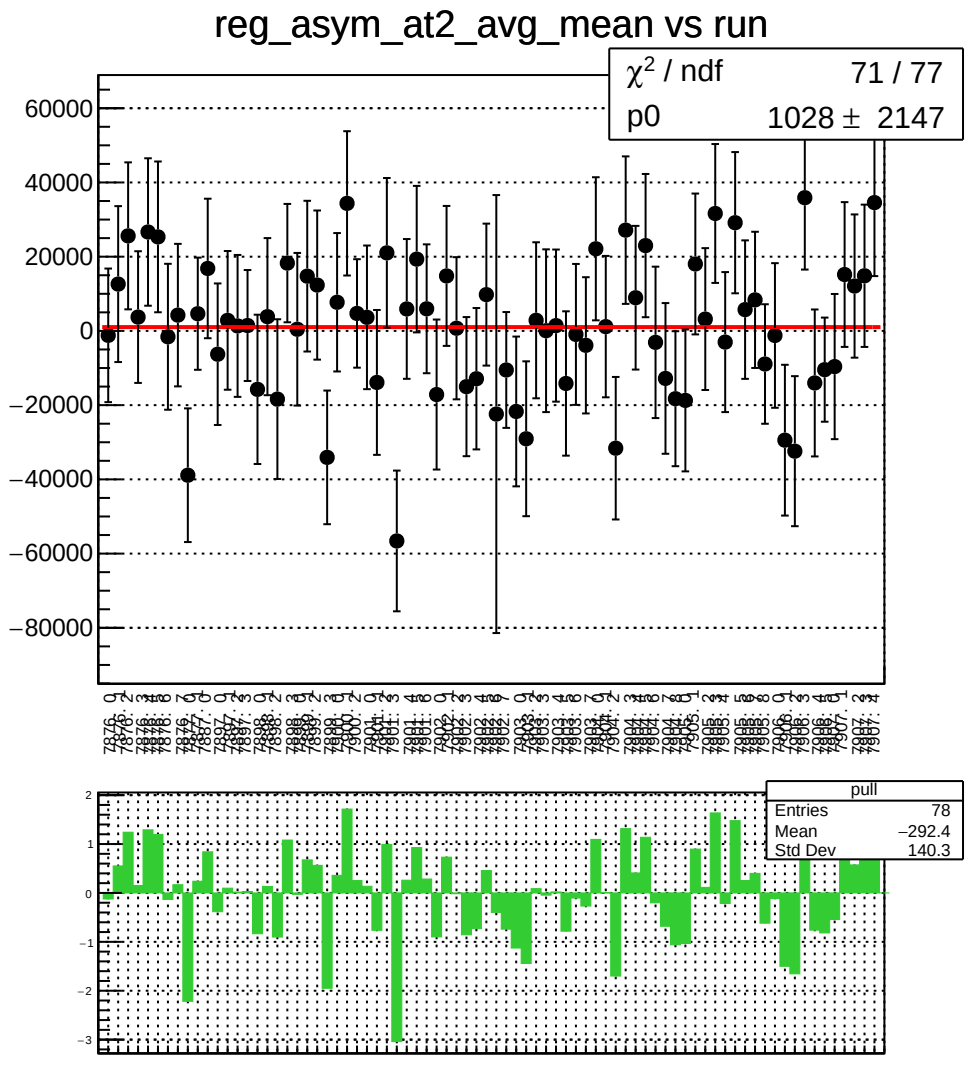

pull1D
Entries 78
Mean −0.02715
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

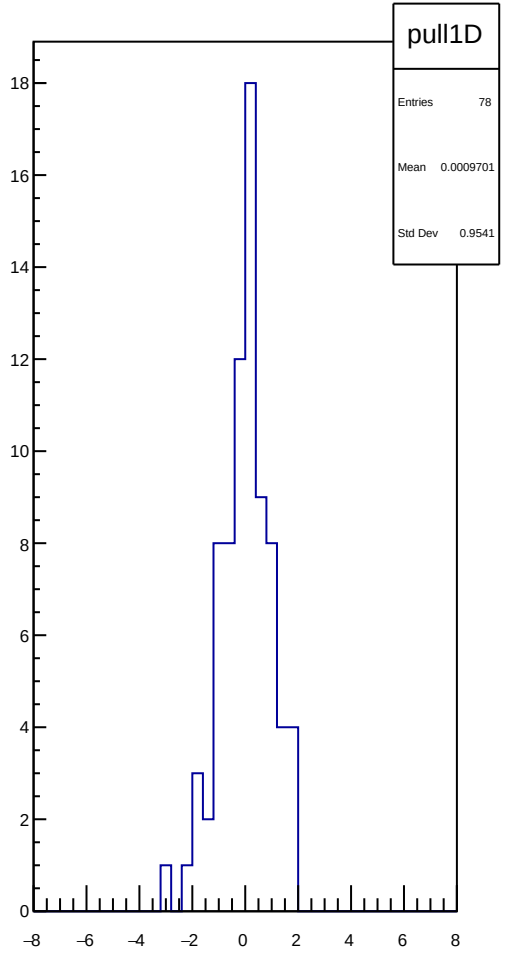

asym_at1_dd_correction_rms vs run
χ² / ndf 2.018e+04 / 77
p0 973.3 ± 0.7958
2000
1800
1600
1400
1200
1000
800

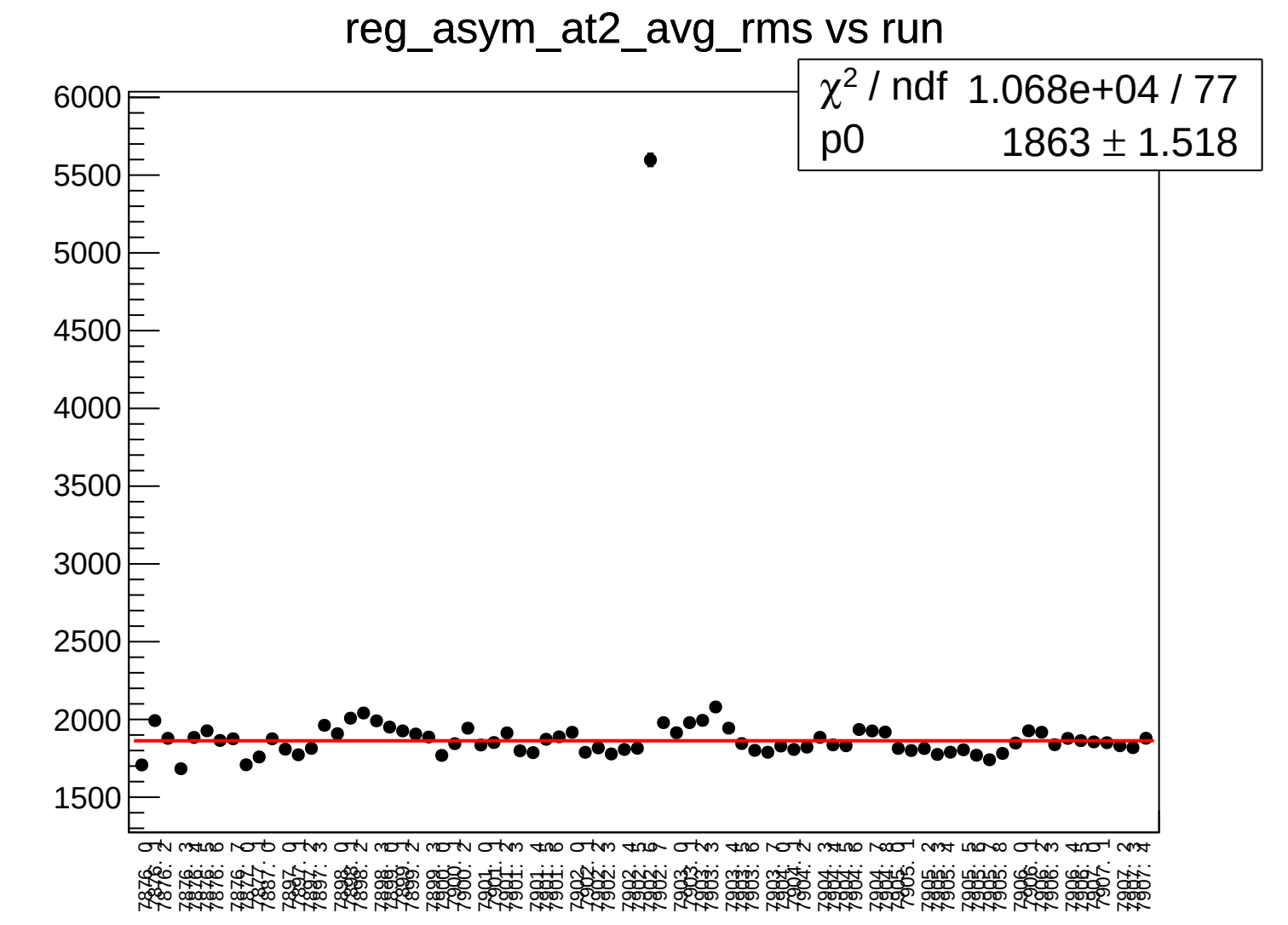

asym_at1_dd_mean vs run
×10^3
χ² / ndf 92.5 / 77
p0 1460 ± 2405
100
50
0
−50
−100
pull
Entries 78
Mean 1487
Std Dev 1456
3
2
1
0
−1
−2

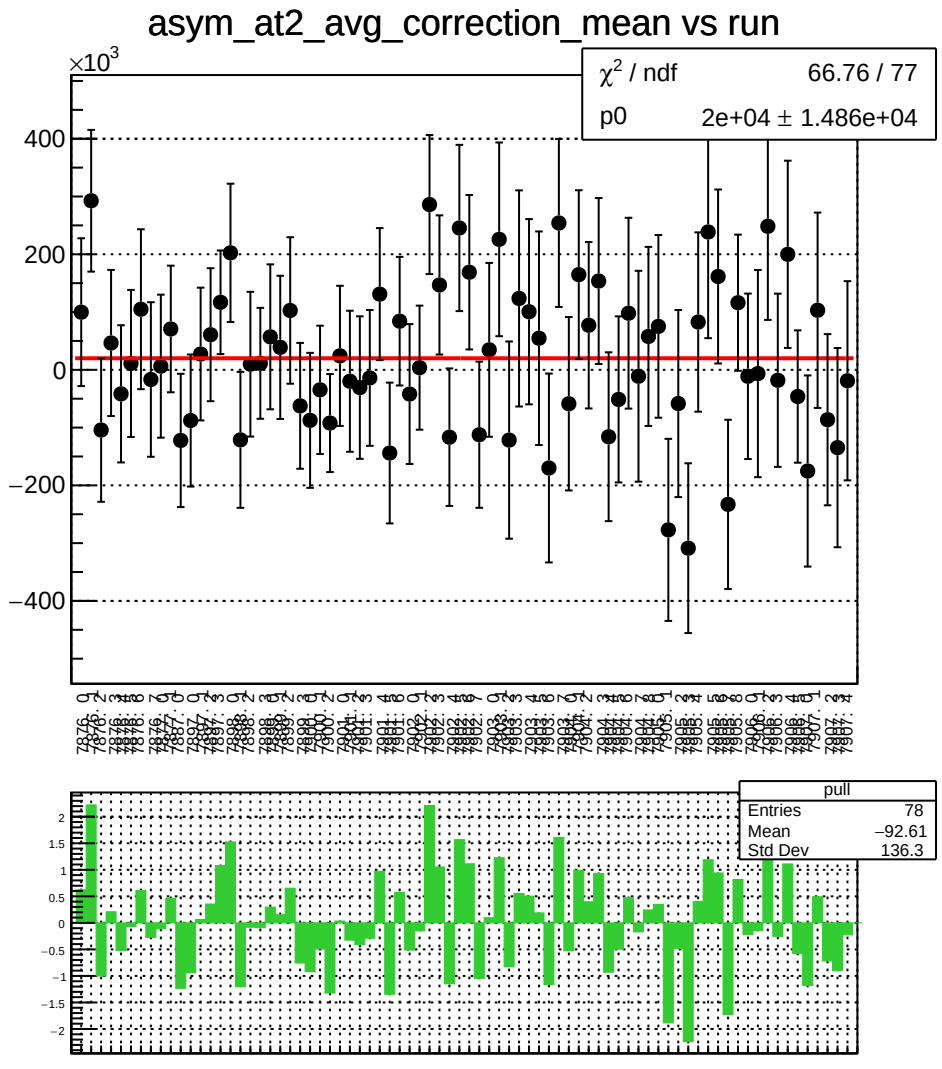

pull1D
Entries 78
Mean −0.001496
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

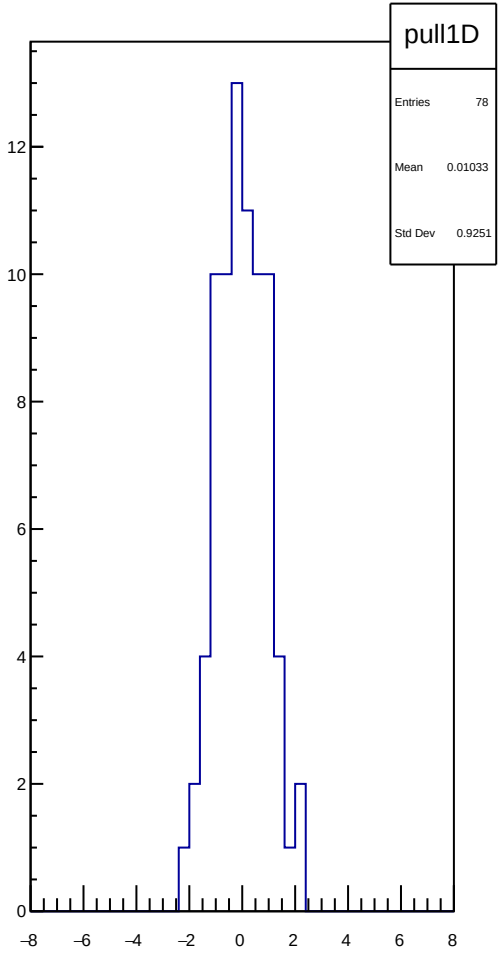

asym_at1_dd_rms vs run
χ² / ndf 9743 / 77
p0 2087 ± 1.7
6000
5500
5000
4500
4000
3500
3000
2500
2000

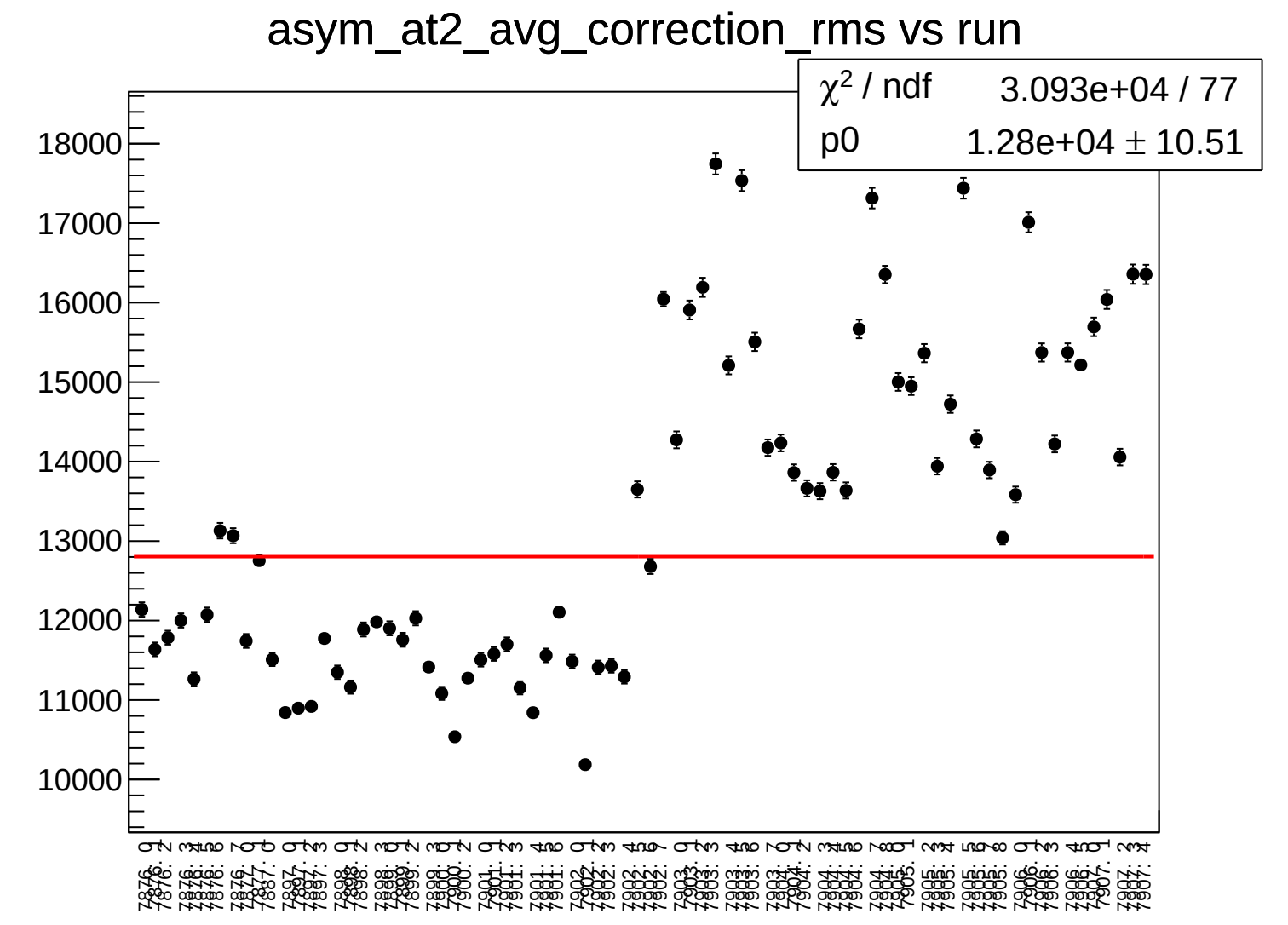

reg_asym_at2_avg_mean vs run
χ² / ndf 71 / 77
p0 1028 ± 2147
pull
Entries 78
Mean −292.4
Std Dev 140.3

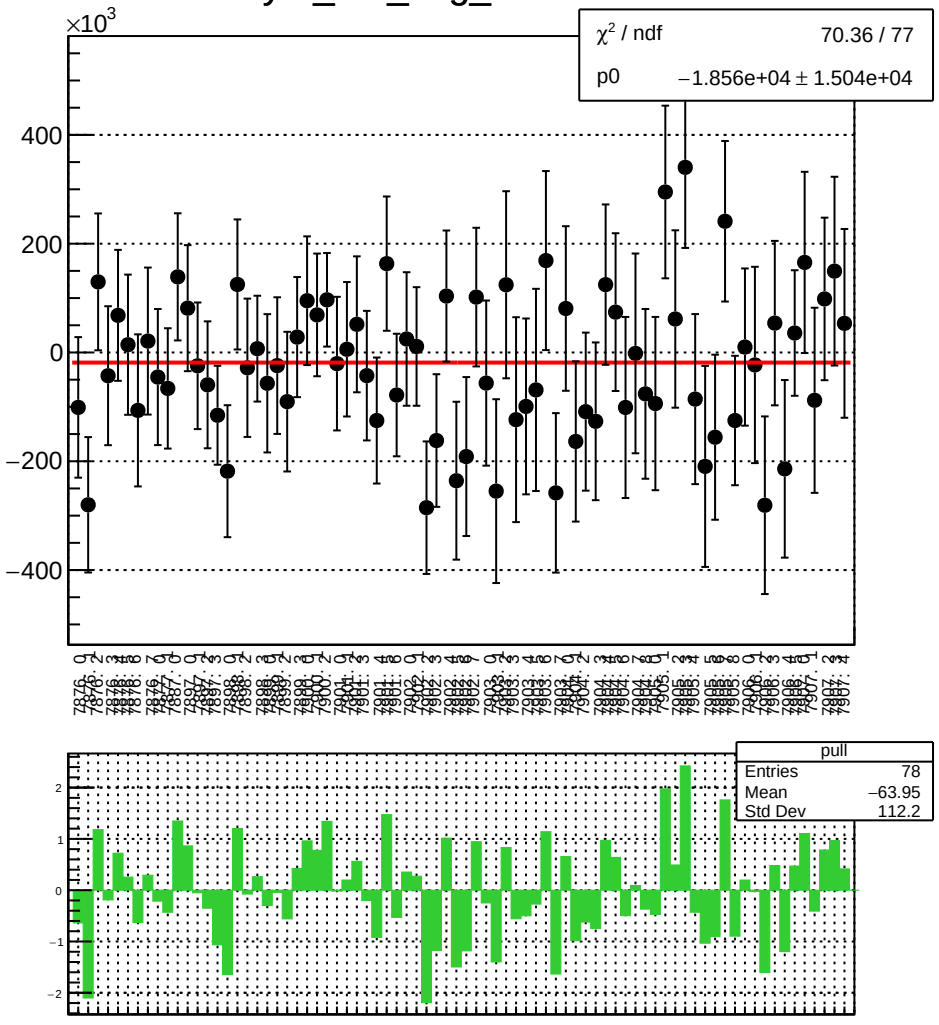

pull1D
Entries 78
Mean 0.0009701
Std Dev 0.9541

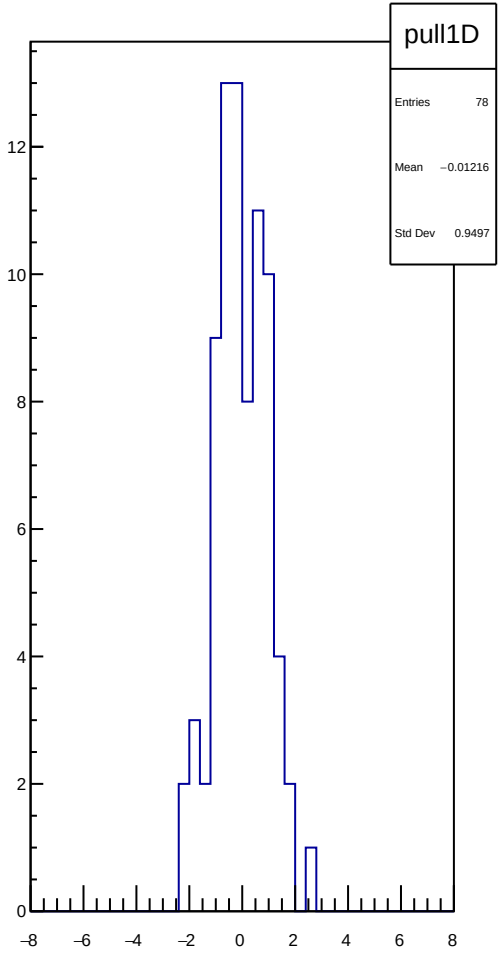

reg_asym_at2_avg_rms vs run
χ² / ndf 1.068e+04 / 77
p0 1863 ± 1.518
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

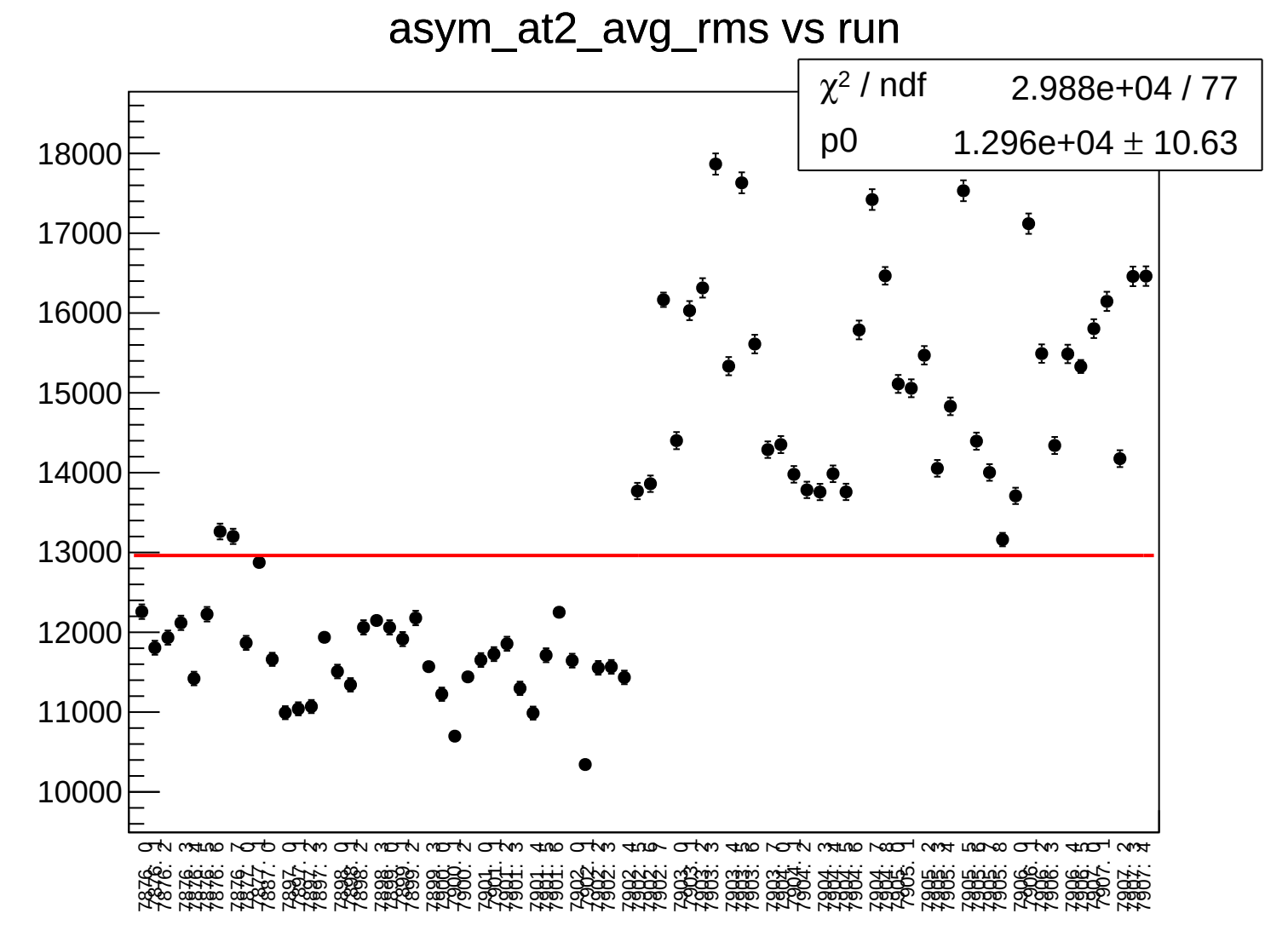

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 66.76 / 77
p0 2e+04 ± 1.486e+04
400
200
0
−200
−400
pull
Entries 78
Mean −92.61
Std Dev 136.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

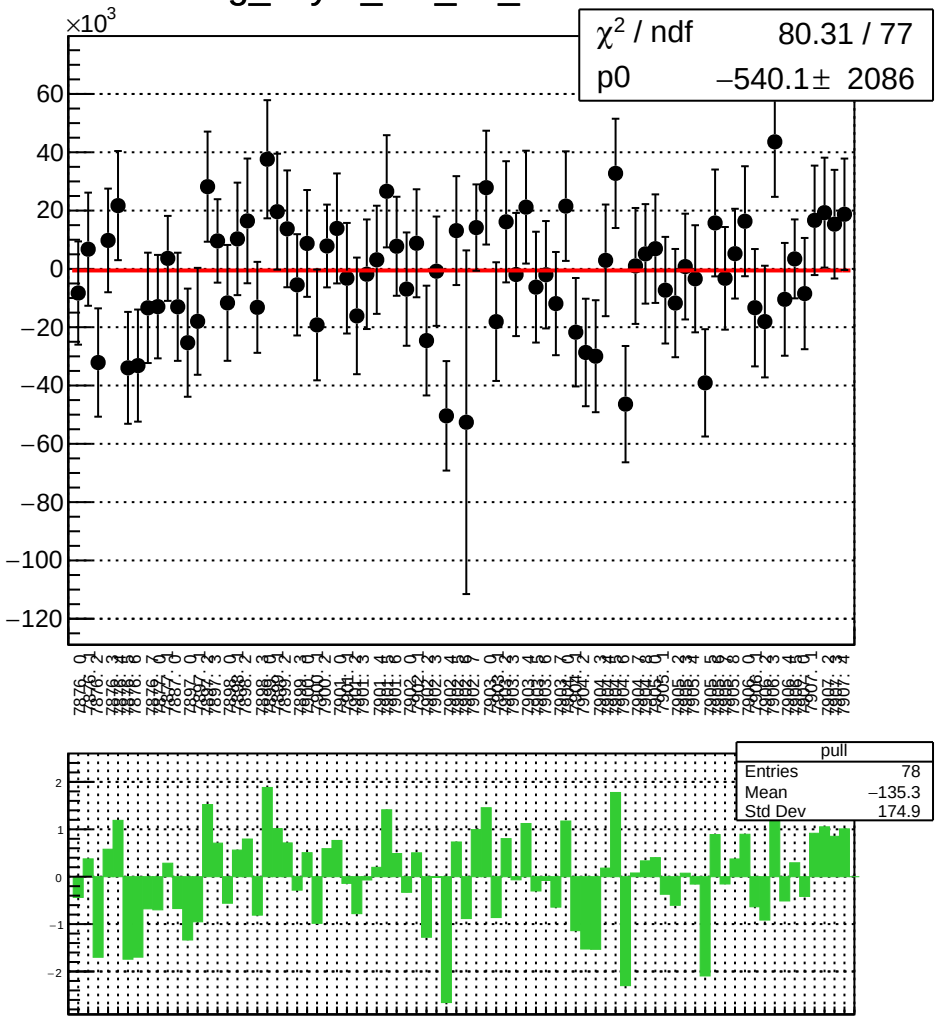

pull1D
Entries 78
Mean 0.01033
Std Dev 0.9251
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

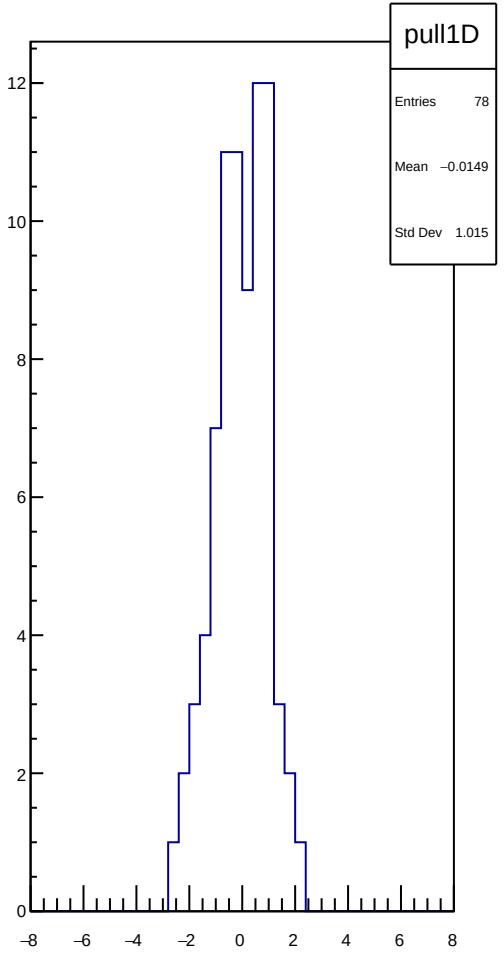

asym_at2_avg_correction_rms vs run
χ^2 / ndf 3.093e+04 / 77
p0 1.28e+04 ± 10.51
18000
17000
16000
15000
14000
13000
12000
11000
10000

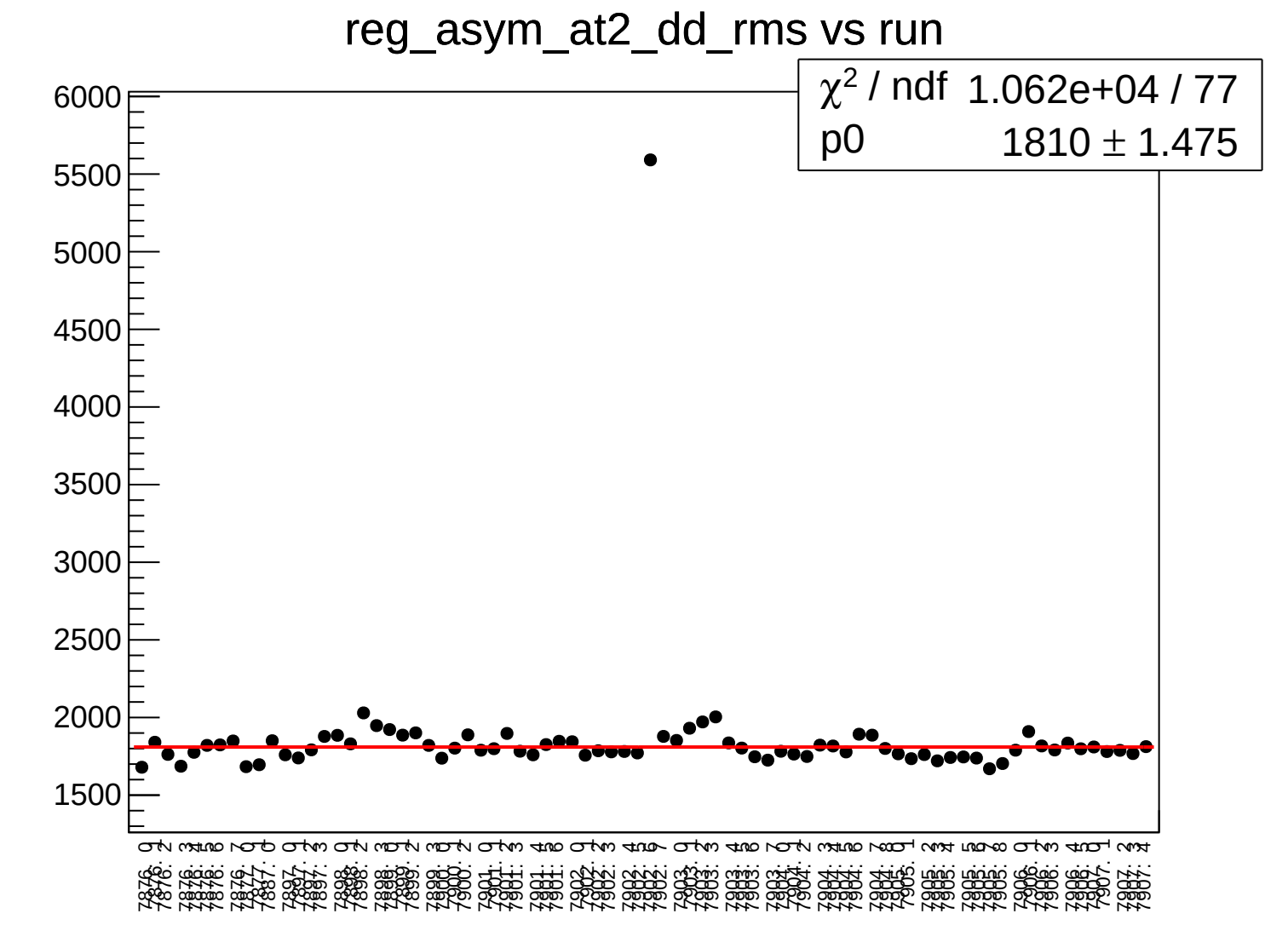

asym_at2_avg_mean vs run
×10^3
χ² / ndf 70.36 / 77
p0 −1.856e+04 ± 1.504e+04
400
200
0
−200
−400
pull
Entries 78
Mean −63.95
Std Dev 112.2
2
1
0
−1
−2

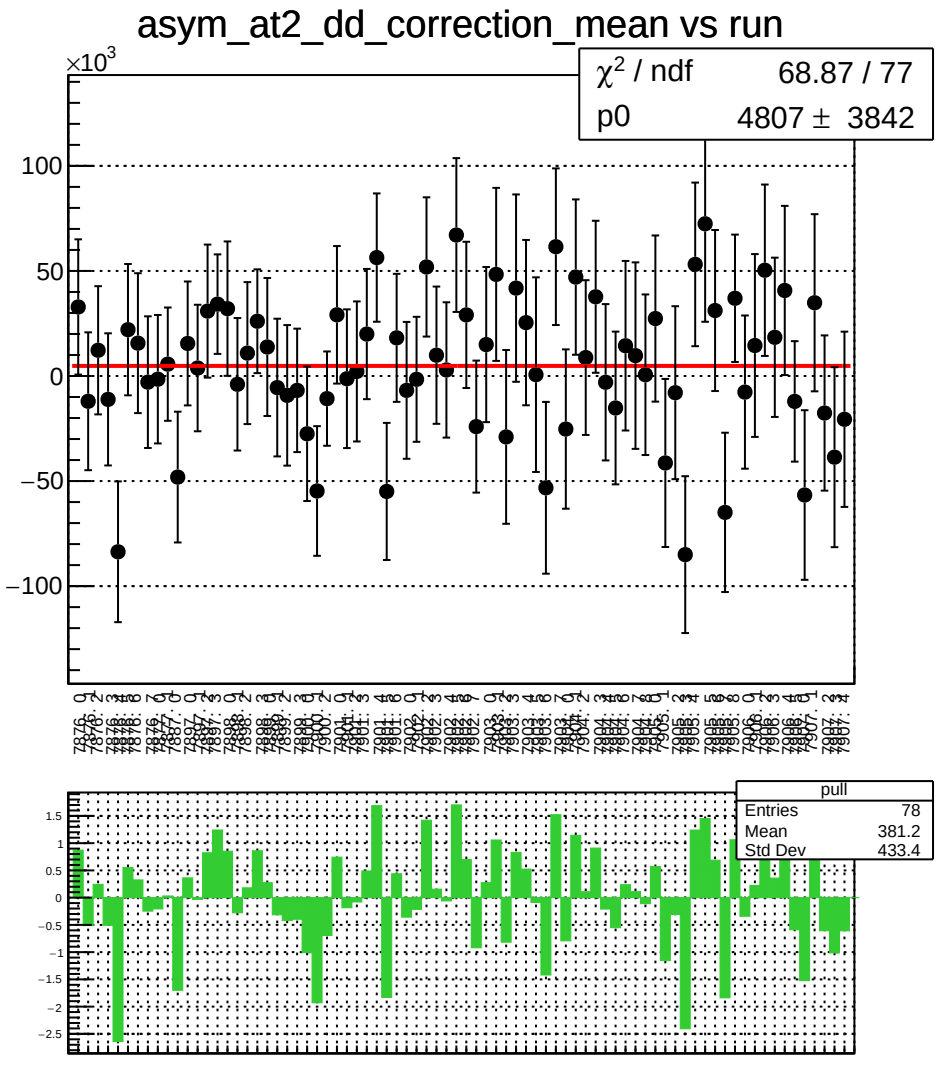

pull1D
Entries 78
Mean −0.01216
Std Dev 0.9497
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

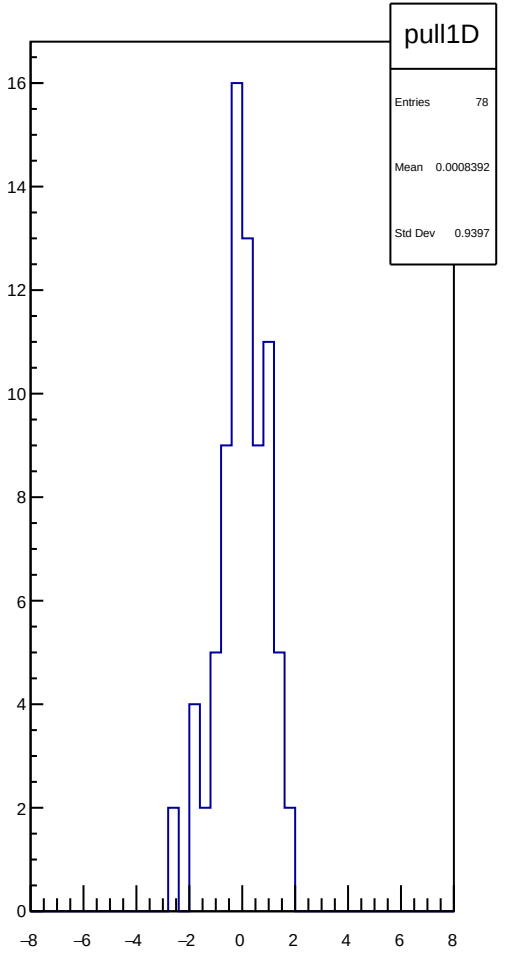

asym_at2_avg_rms vs run
χ² / ndf 2.988e+04 / 77
p0 1.296e+04 ± 10.63
18000
17000
16000
15000
14000
13000
12000
11000
10000

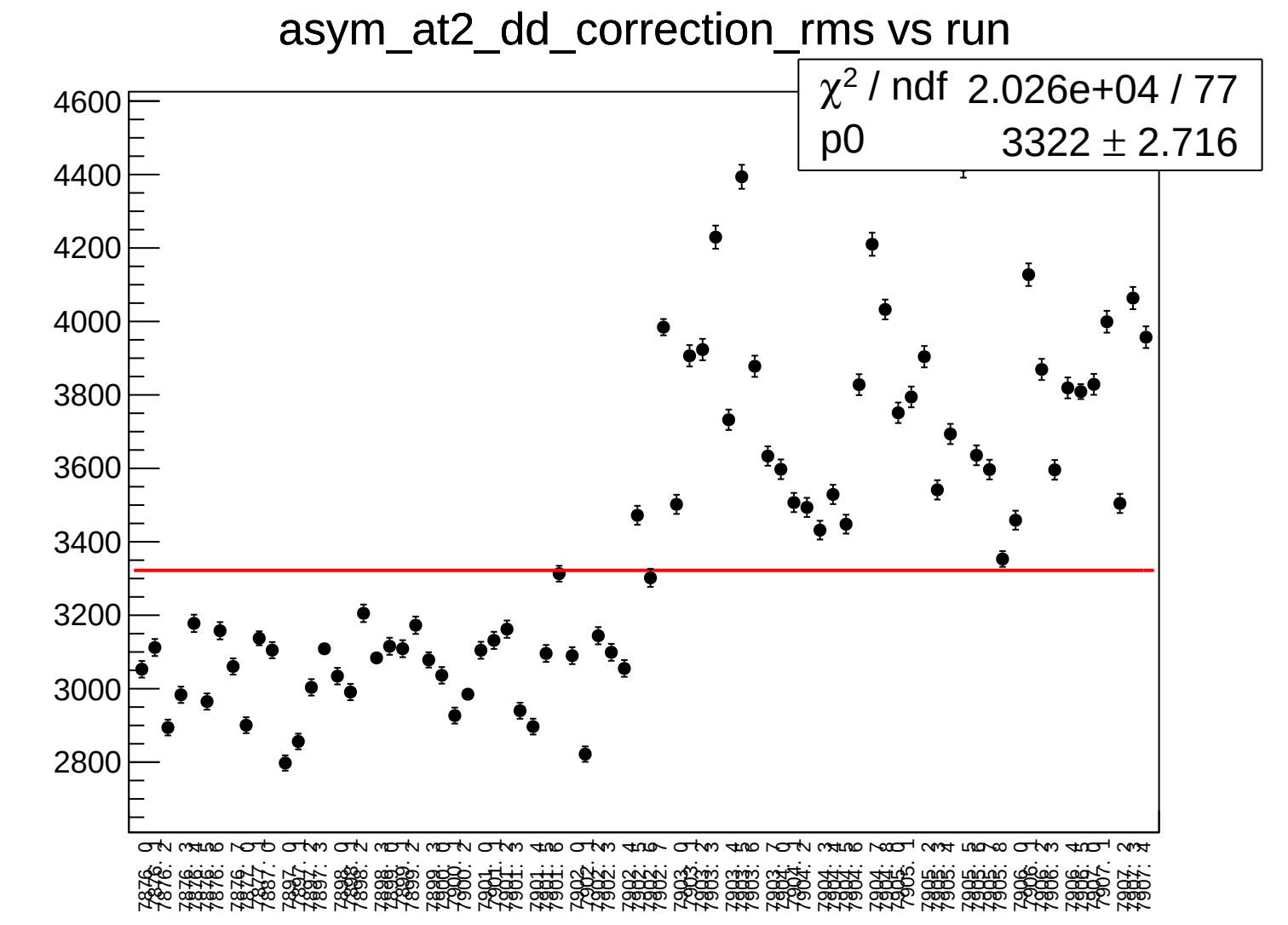

reg_asym_at2_dd_mean vs run
×10^3
χ² / ndf 80.31 / 77
p0 −540.1± 2086
pull
Entries 78
Mean −135.3
Std Dev 174.9

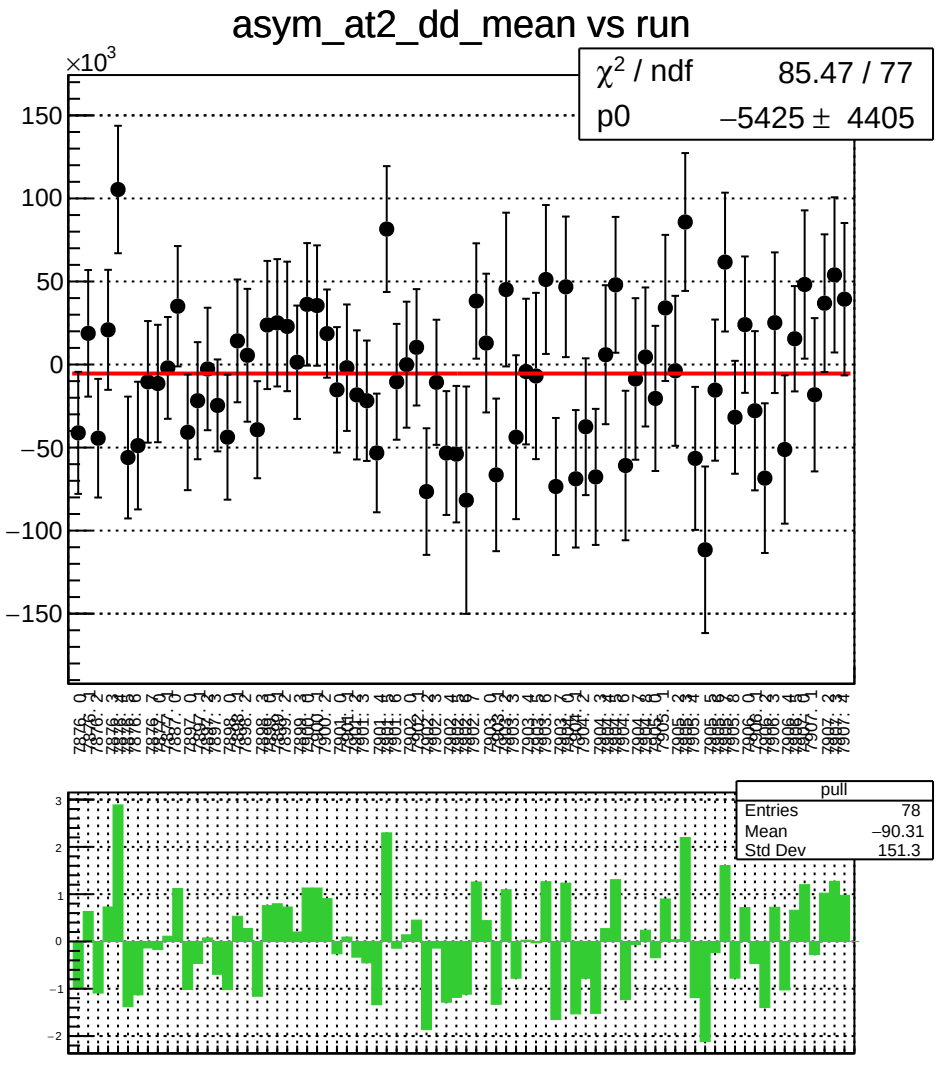

pull1D
Entries 78
Mean −0.0149
Std Dev 1.015

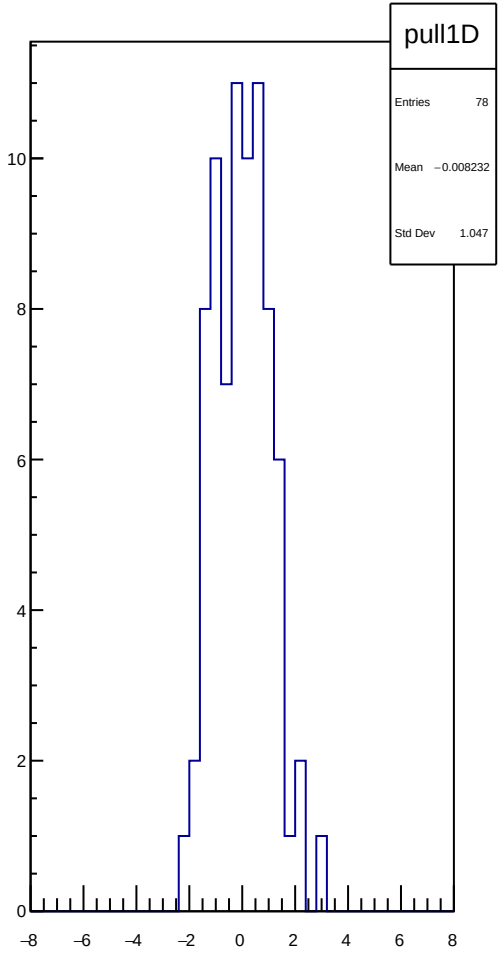

reg_asym_at2_dd_rms vs run
χ² / ndf 1.062e+04 / 77
p0 1810 ± 1.475
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

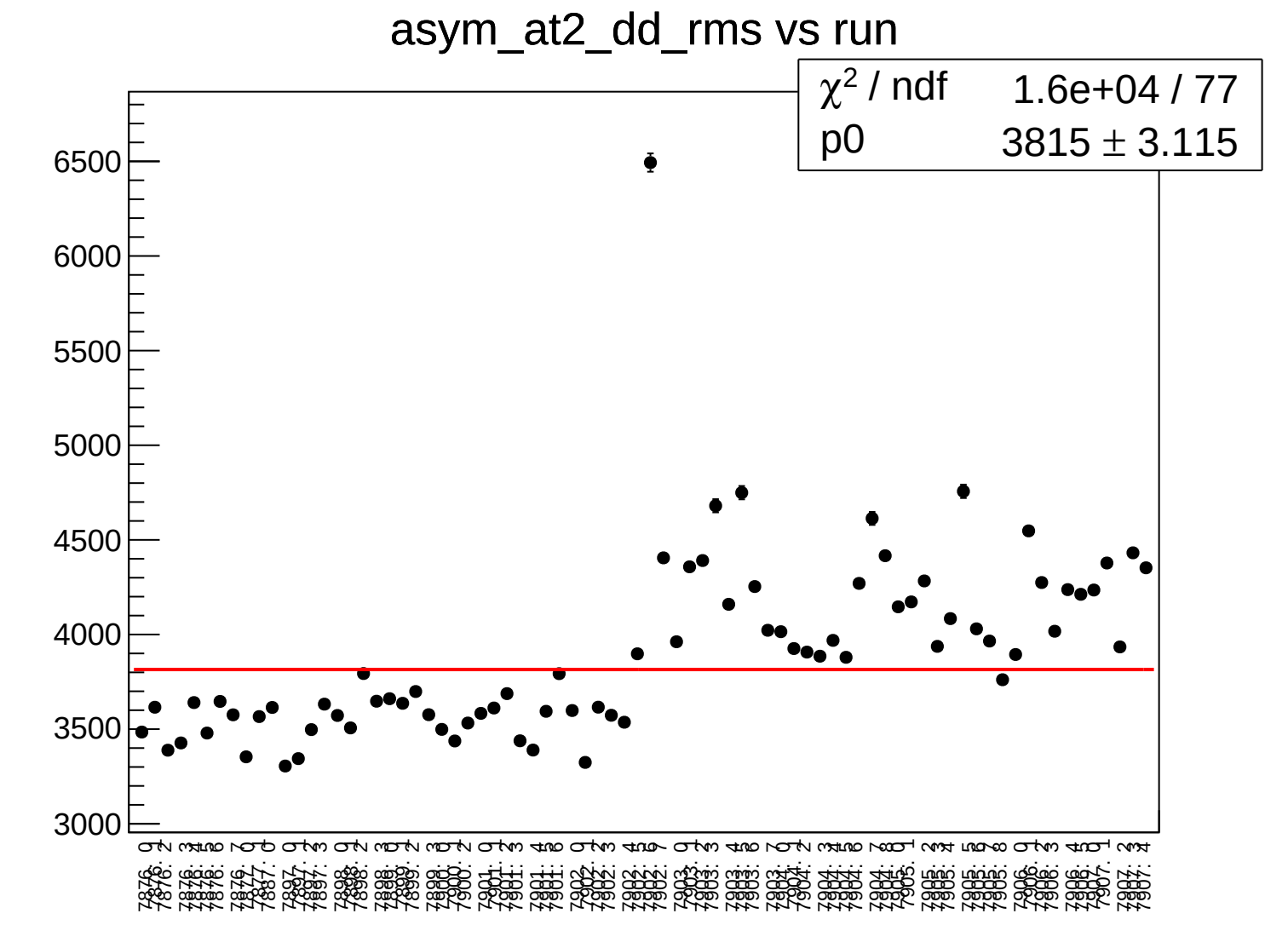

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 68.87 / 77
p0 4807 ± 3842
100
50
0
−50
−100
pull
Entries 78
Mean 381.2
Std Dev 433.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

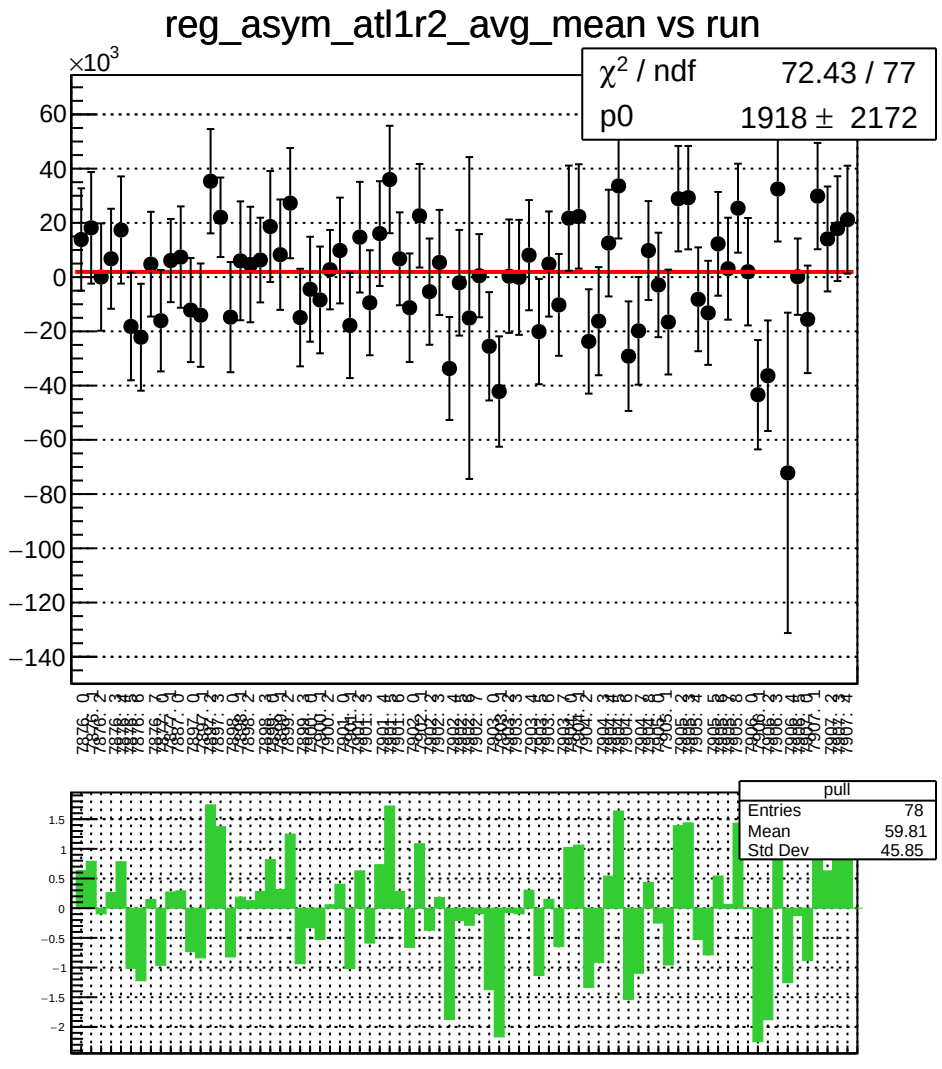

pull1D
Entries 78
Mean 0.0008392
Std Dev 0.9397
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

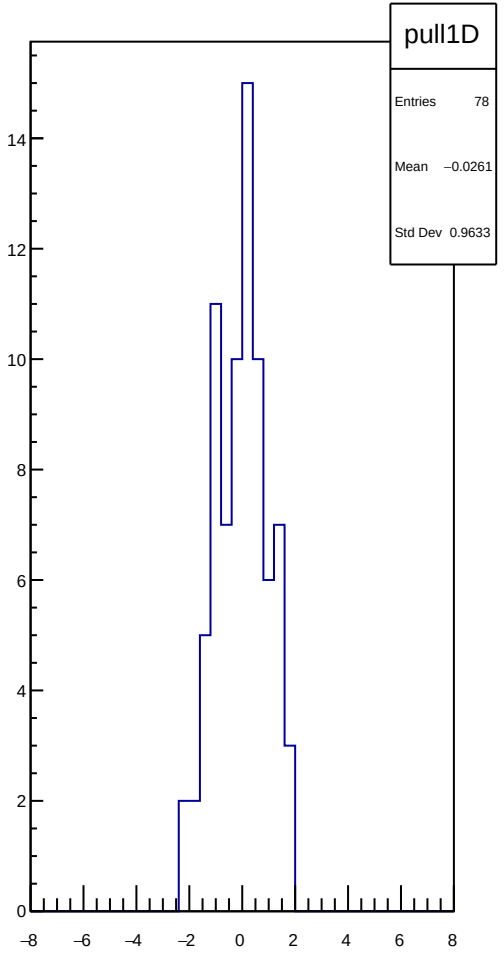

asym_at2_dd_correction_rms vs run
χ² / ndf 2.026e+04 / 77
p0 3322 ± 2.716
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

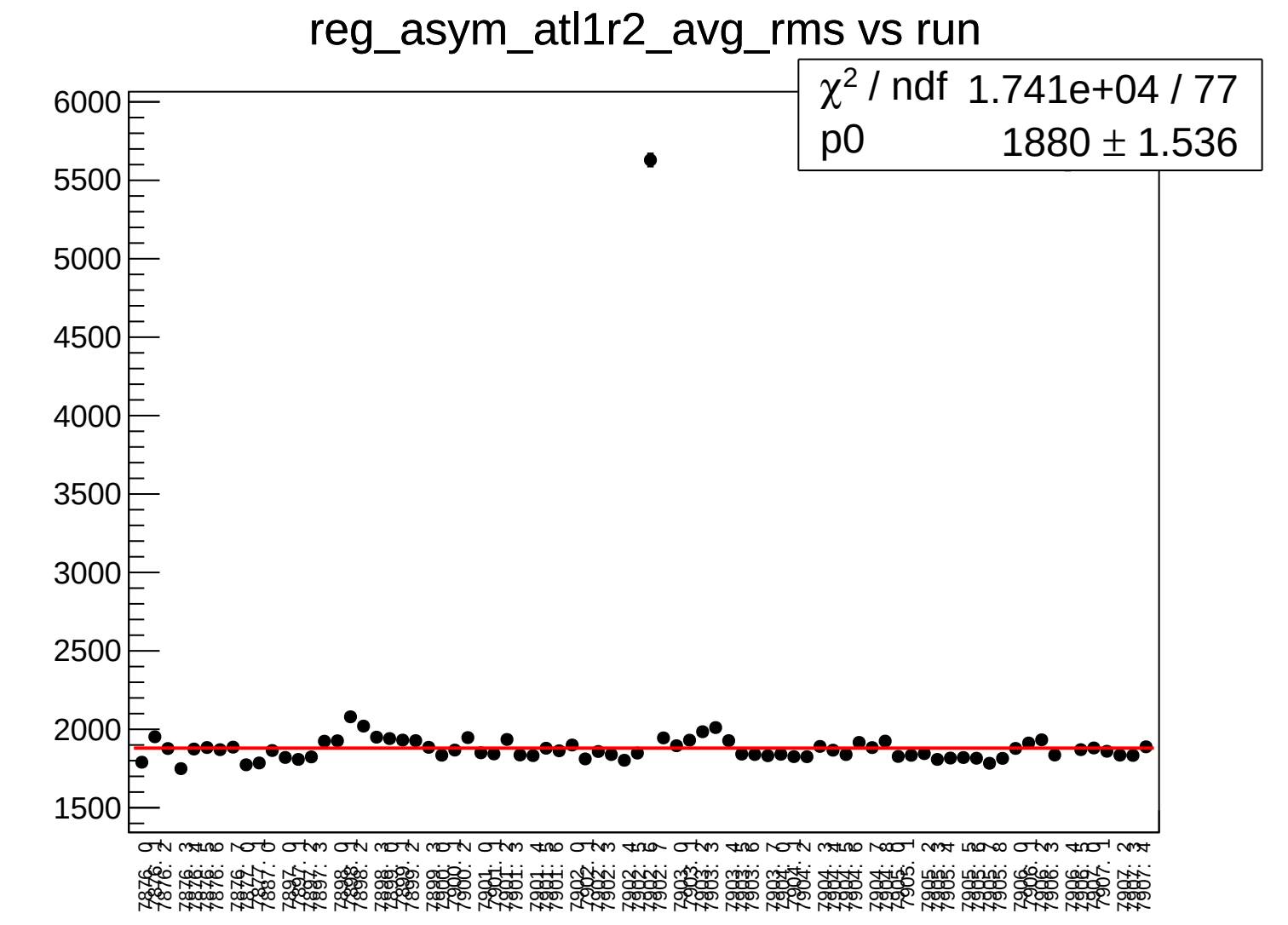

asym_at2_dd_mean vs run
×10^3
χ² / ndf 85.47 / 77
p0 −5425 ± 4405
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −90.31
Std Dev 151.3
3
2
1
0
−1
−2

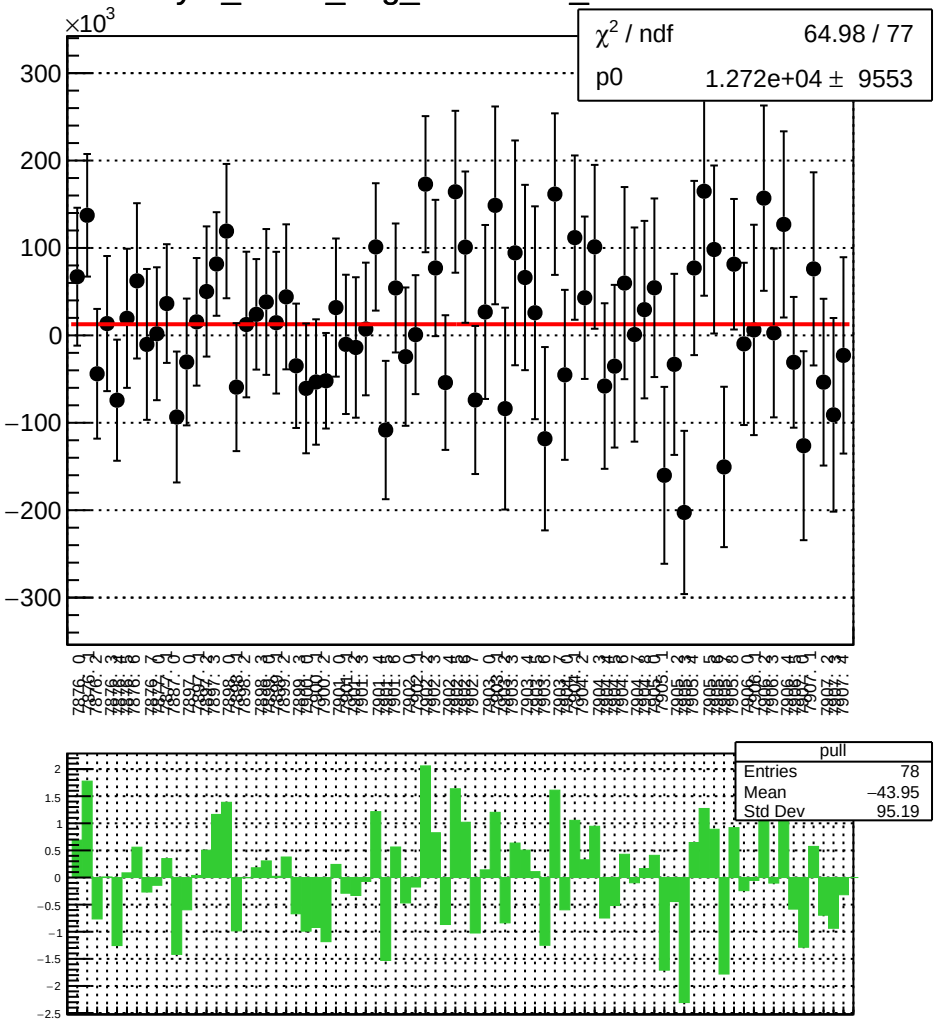

pull1D
Entries 78
Mean −0.008232
Std Dev 1.047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

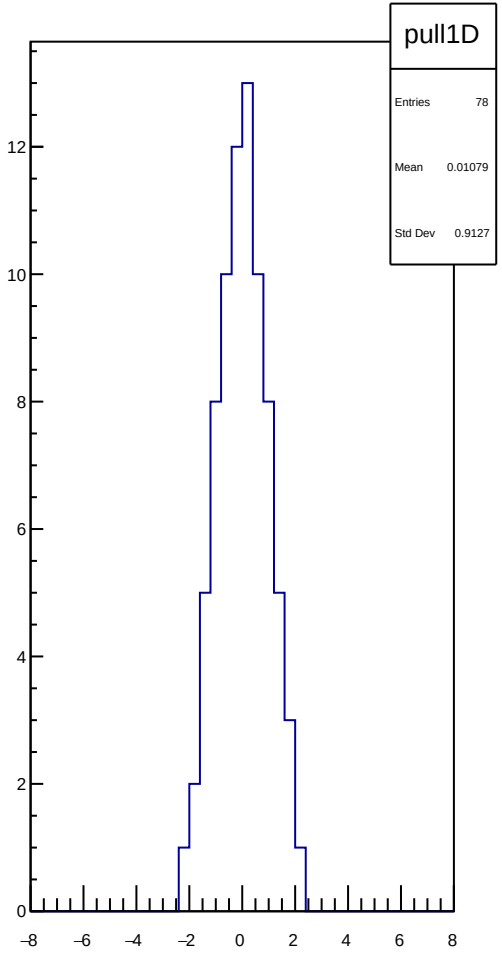

asym_at2_dd_rms vs run
χ² / ndf 1.6e+04 / 77
p0 3815 ± 3.115
6500
6000
5500
5000
4500
4000
3500
3000

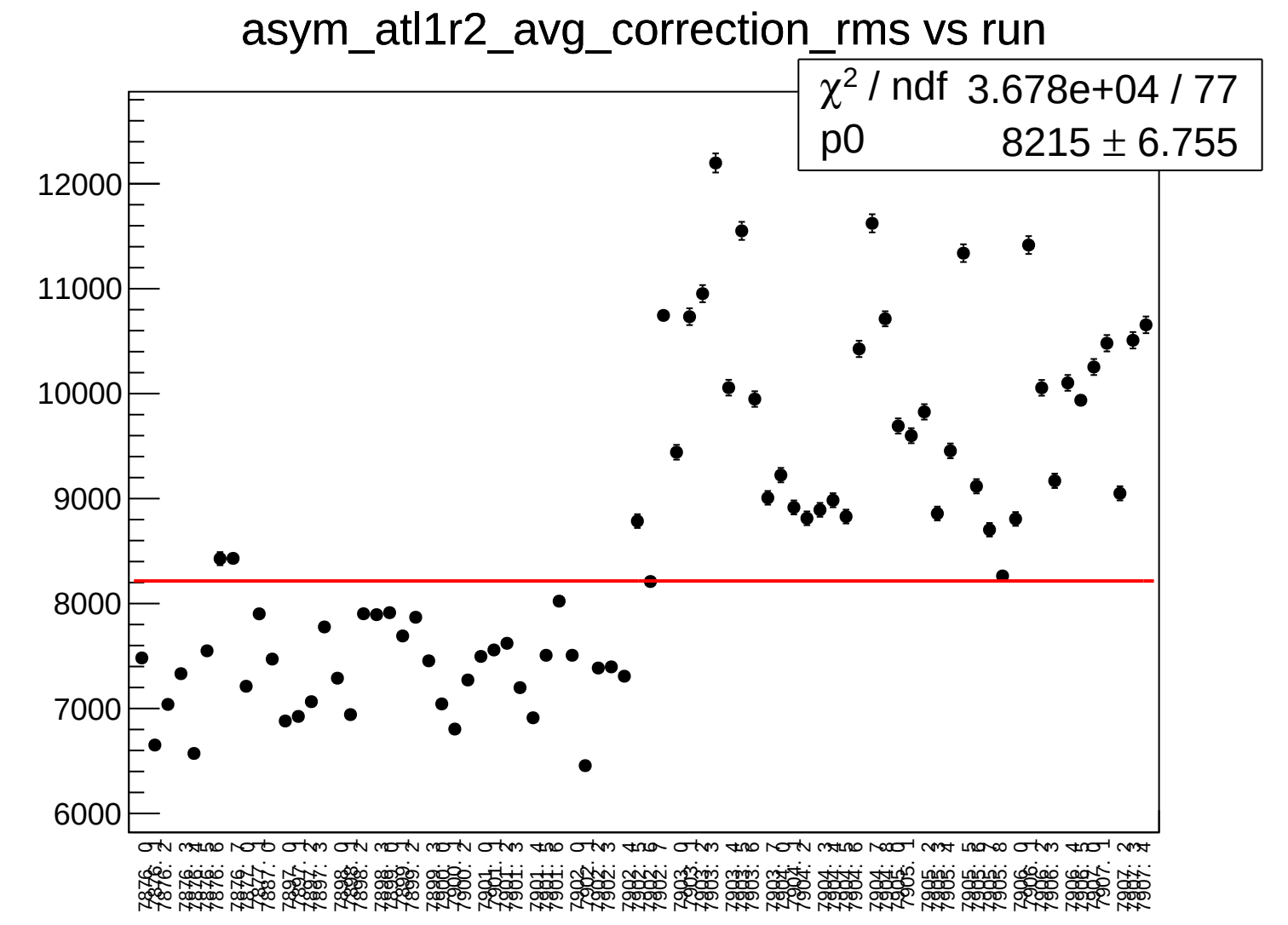

reg_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 72.43 / 77
p0 1918 ± 2172
pull
Entries 78
Mean 59.81
Std Dev 45.85

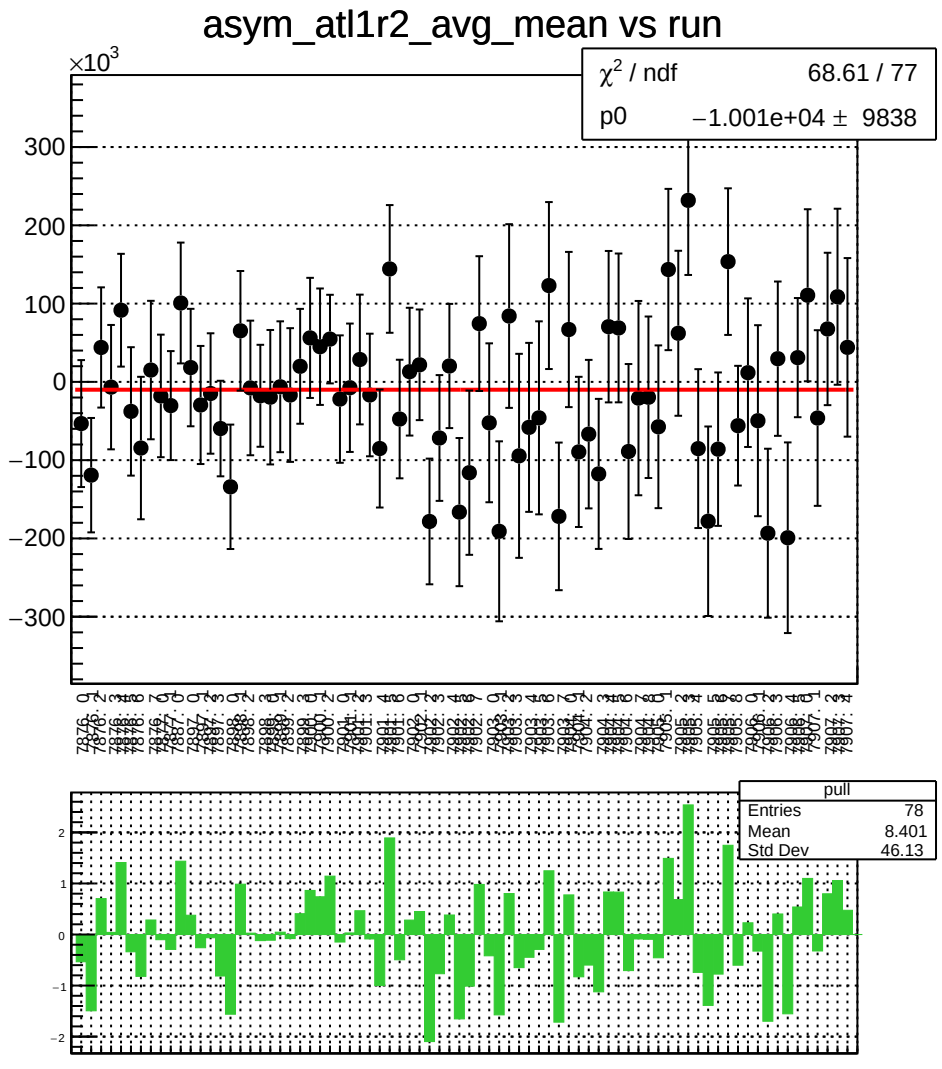

pull1D
Entries 78
Mean −0.0261
Std Dev 0.9633

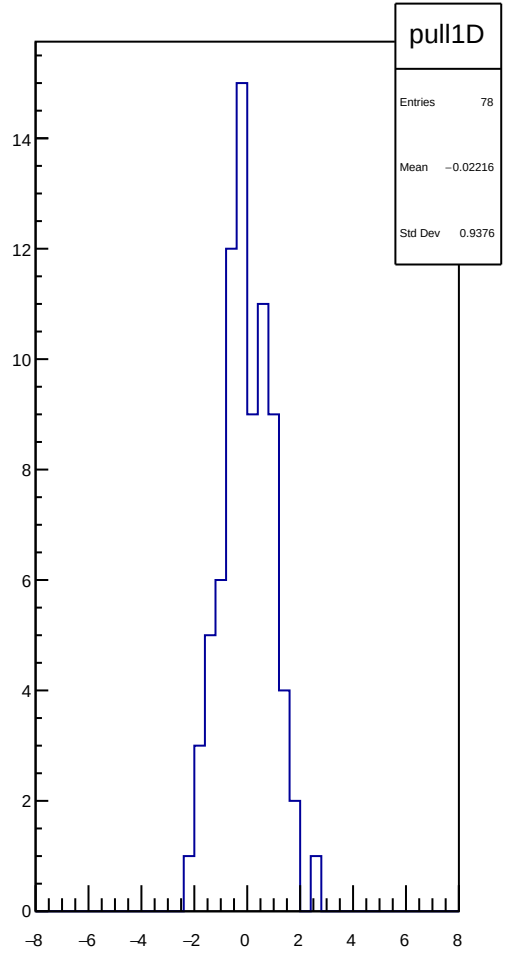

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 1.741e+04 / 77
p0 1880 ± 1.536
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

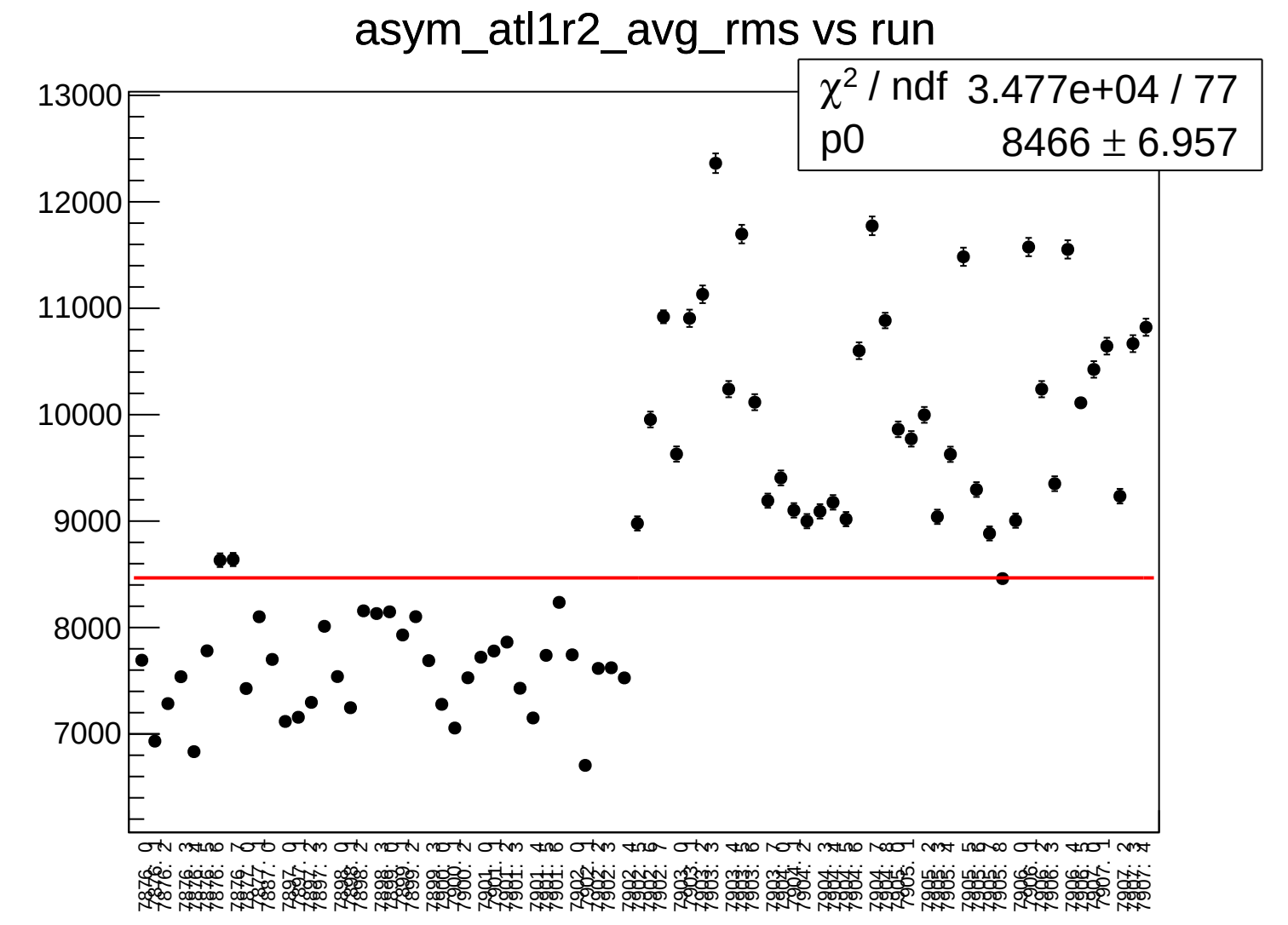

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 64.98 / 77
p0 1.272e+04 ± 9553
pull
Entries 78
Mean −43.95
Std Dev 95.19

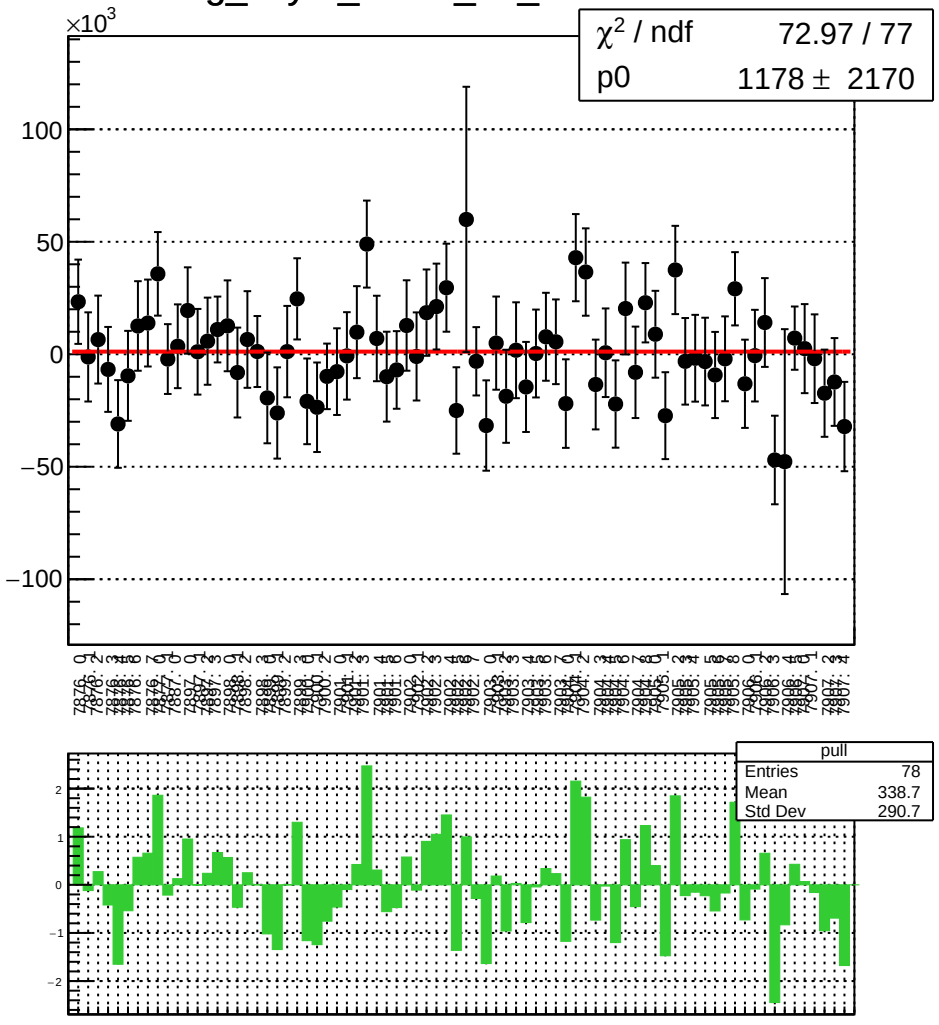

pull1D
Entries 78
Mean 0.01079
Std Dev 0.9127

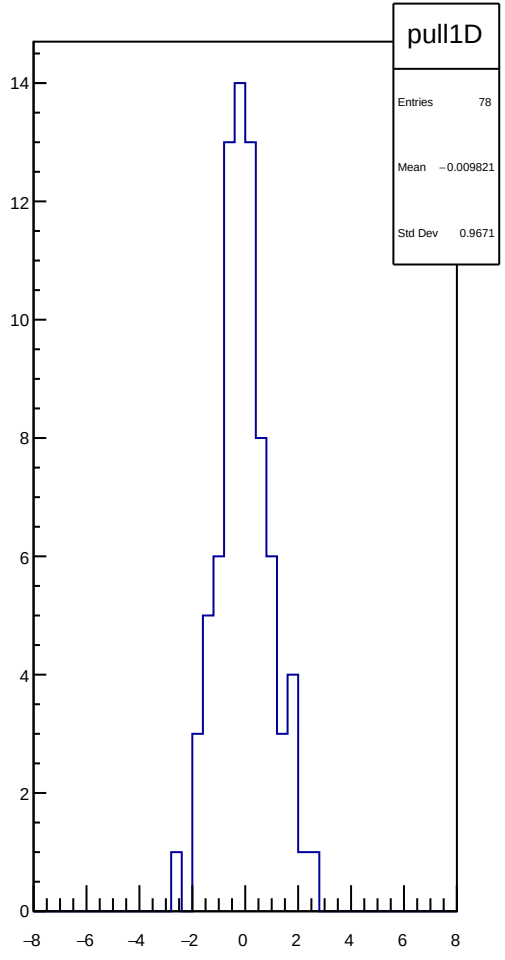

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 3.678e+04 / 77
p0 8215 ± 6.755
12000
11000
10000
9000
8000
7000
6000

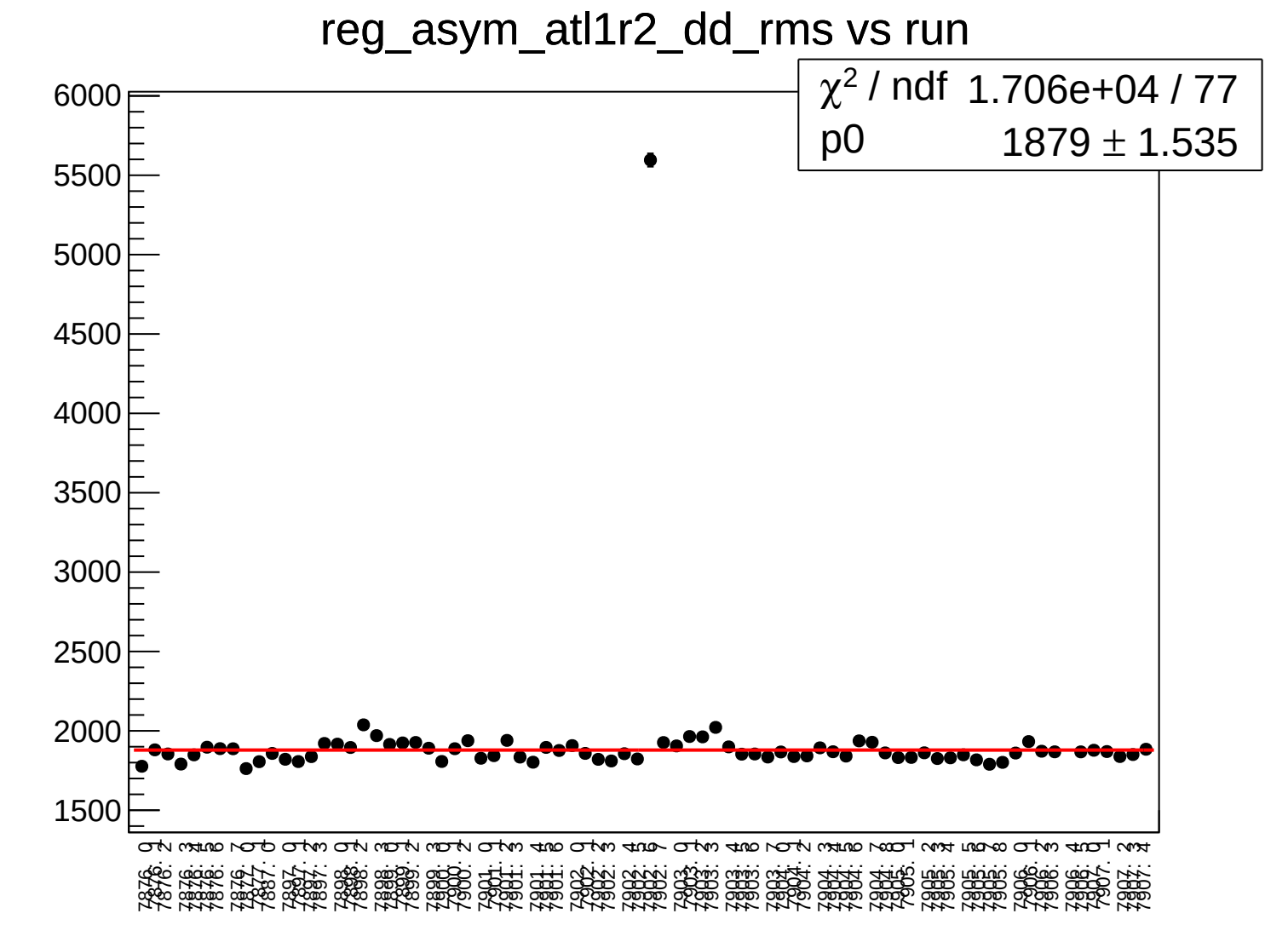

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 68.61 / 77
p0 −1.001e+04 ± 9838
pull
Entries 78
Mean 8.401
Std Dev 46.13

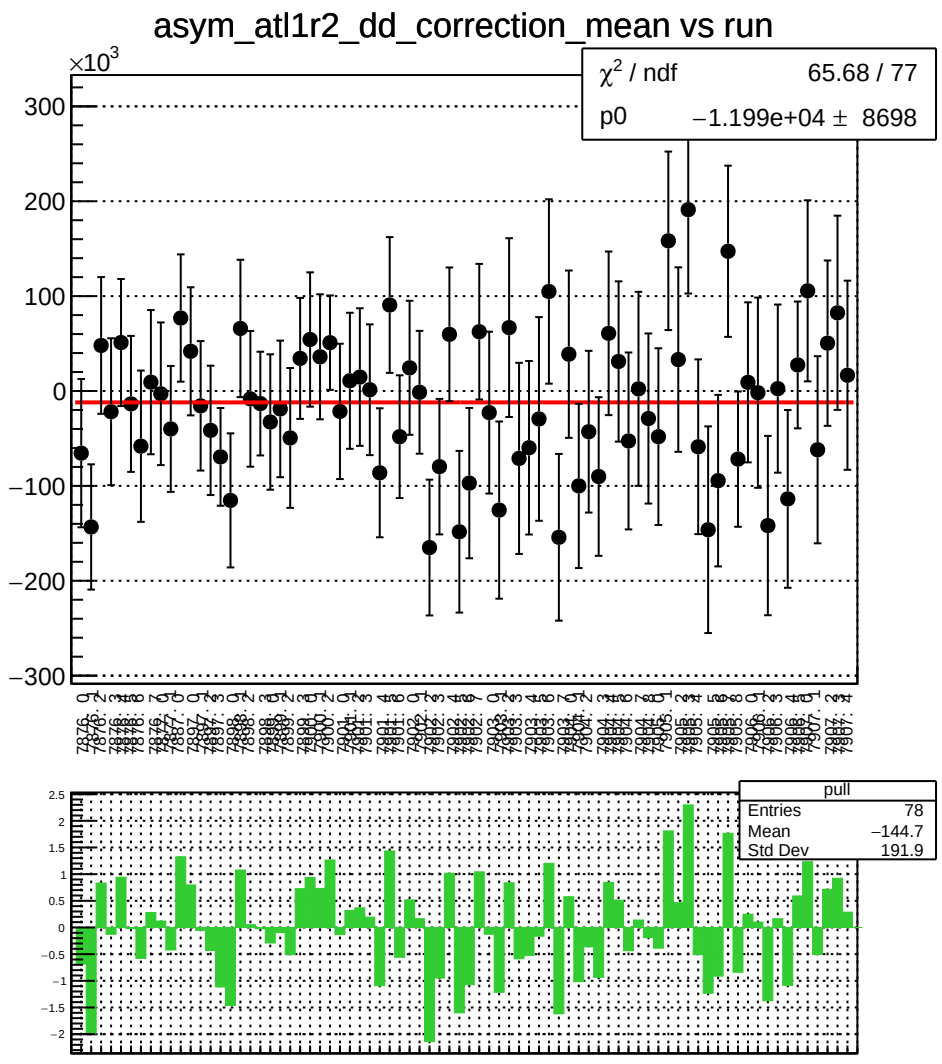

pull1D
Entries 78
Mean −0.02216
Std Dev 0.9376

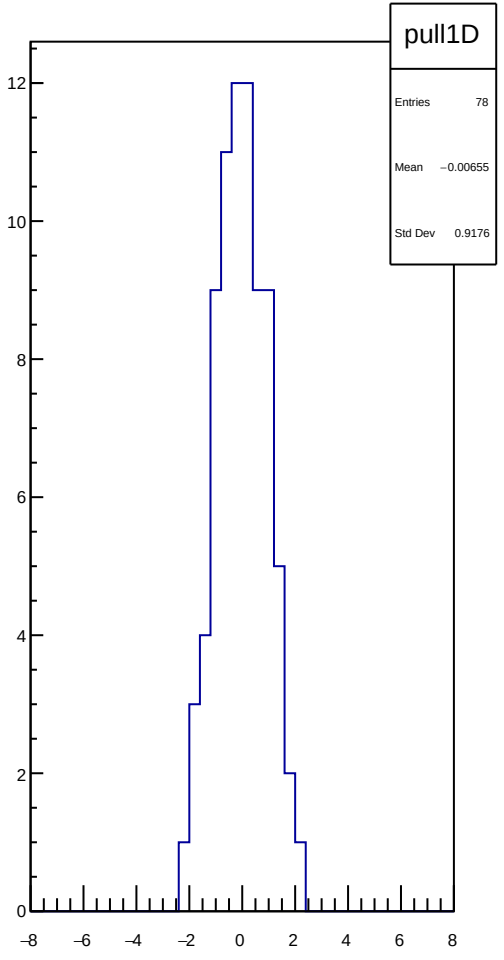

asym_atl1r2_avg_rms vs run
χ² / ndf 3.477e+04 / 77
p0 8466 ± 6.957
13000
12000
11000
10000
9000
8000
7000

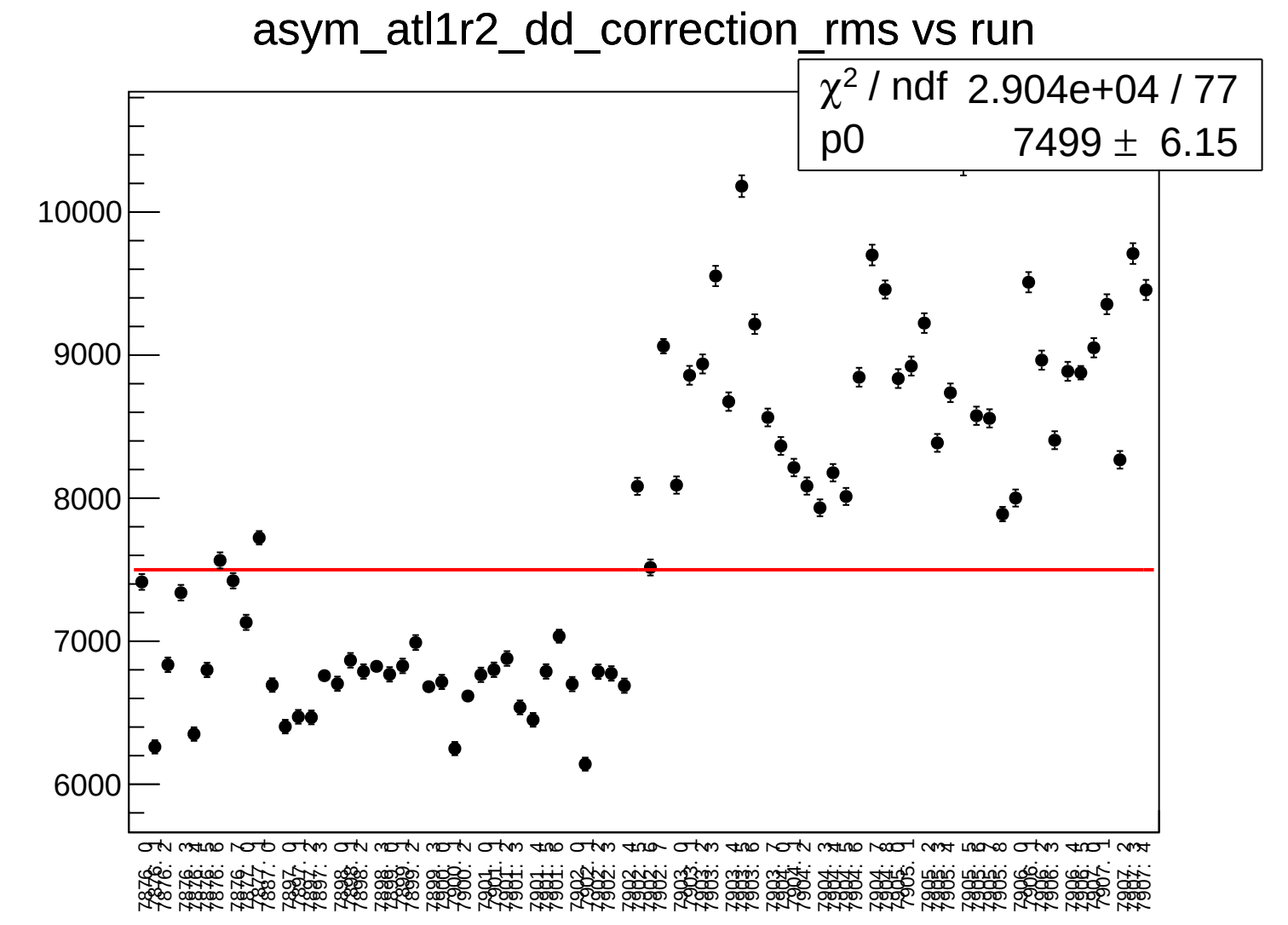

reg_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 72.97 / 77
p0 1178 ± 2170
100
50
0
−50
−100
pull
Entries 78
Mean 338.7
Std Dev 290.7
2
1
0
−1
−2

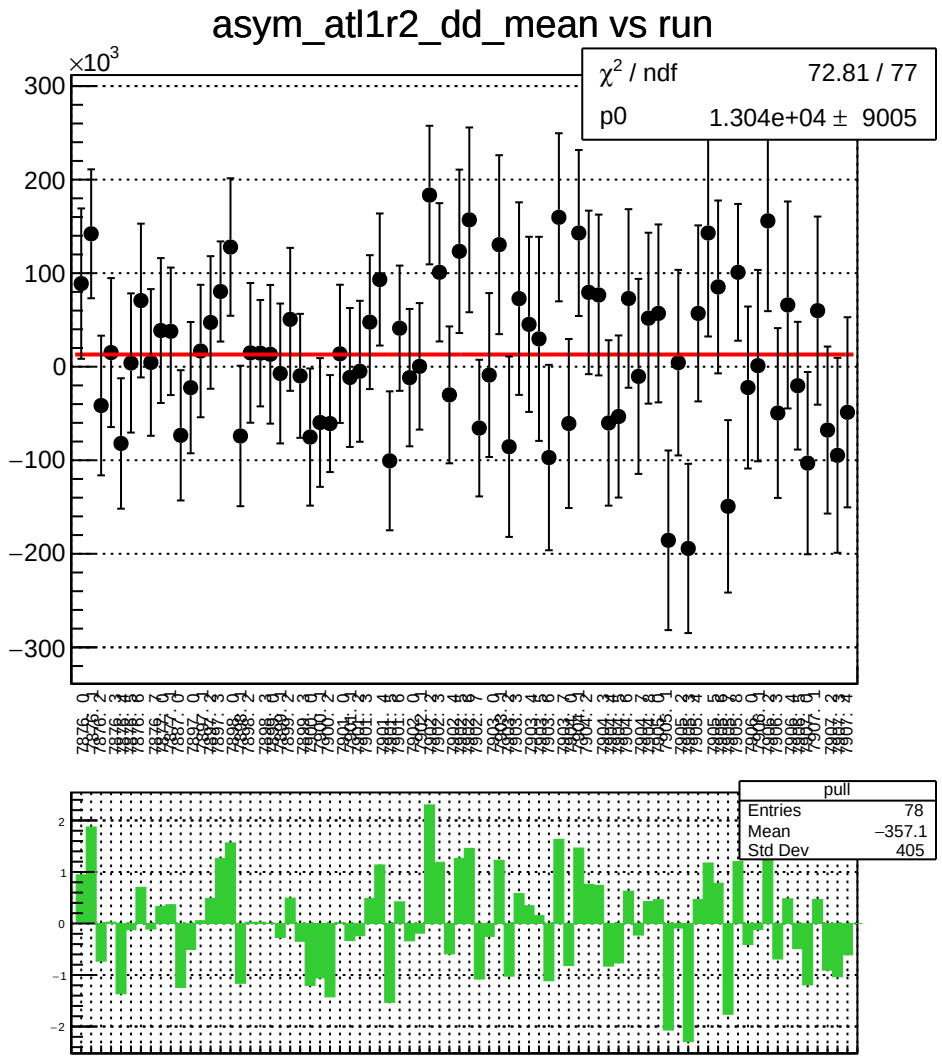

pull1D
Entries 78
Mean −0.009821
Std Dev 0.9671
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

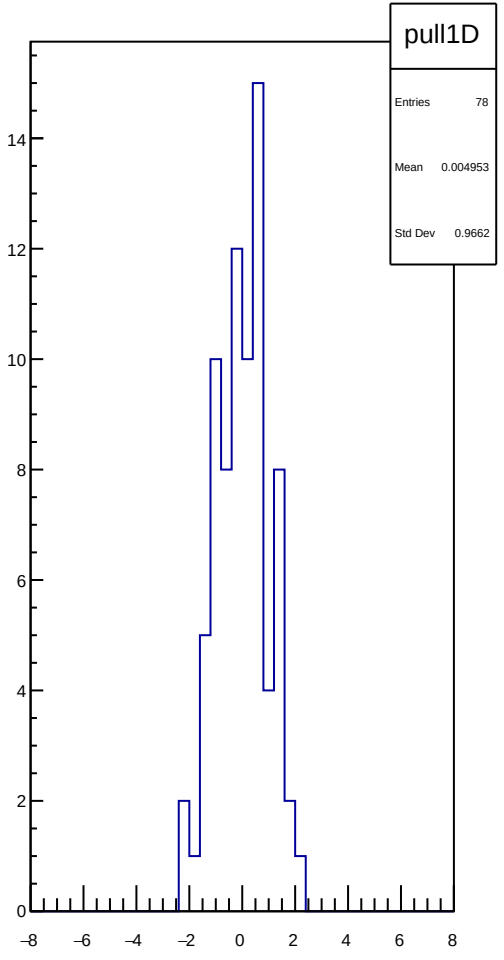

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 1.706e+04 / 77
p0 1879 ± 1.535
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

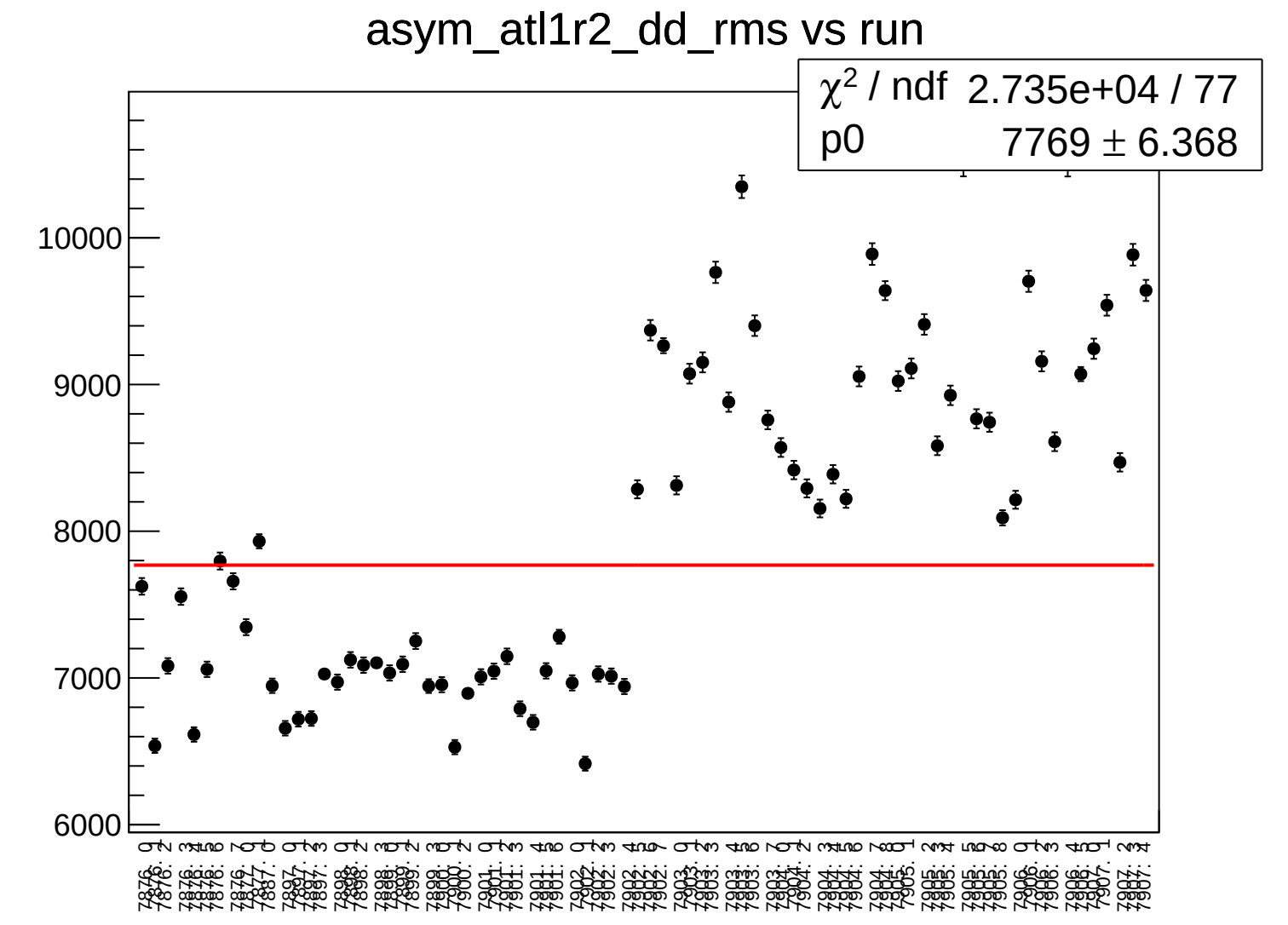

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 65.68 / 77
p0 −1.199e+04 ± 8698
pull
Entries 78
Mean −144.7
Std Dev 191.9

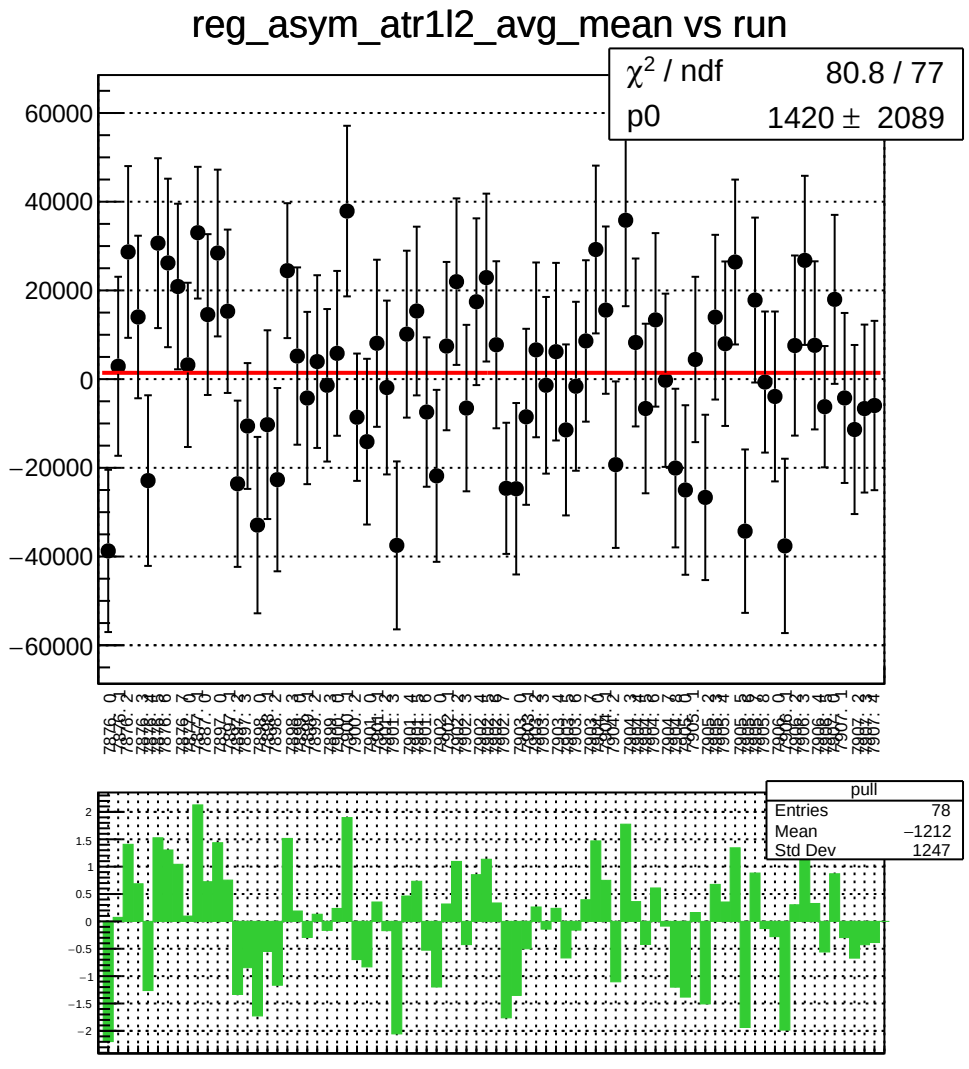

pull1D
Entries 78
Mean −0.00655
Std Dev 0.9176

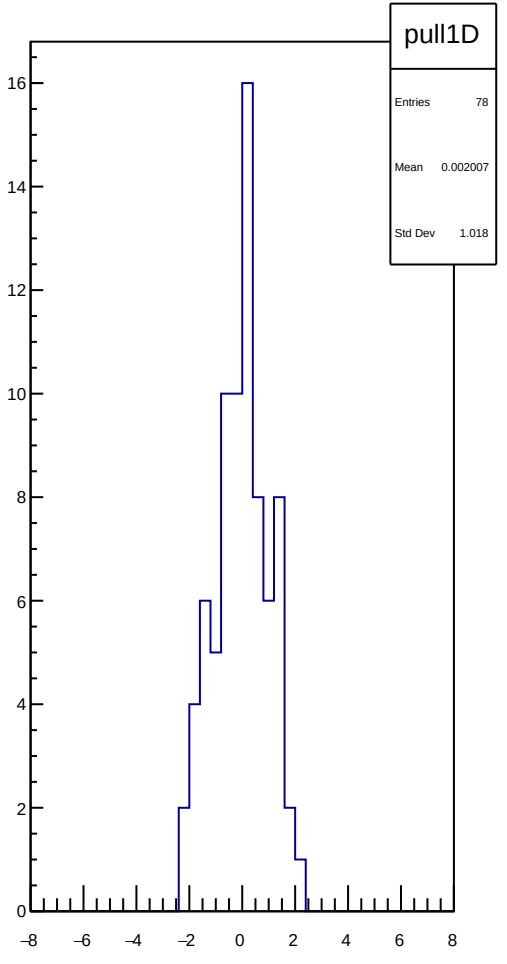

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 2.904e+04 / 77
p0 7499 ± 6.15
10000
9000
8000
7000
6000

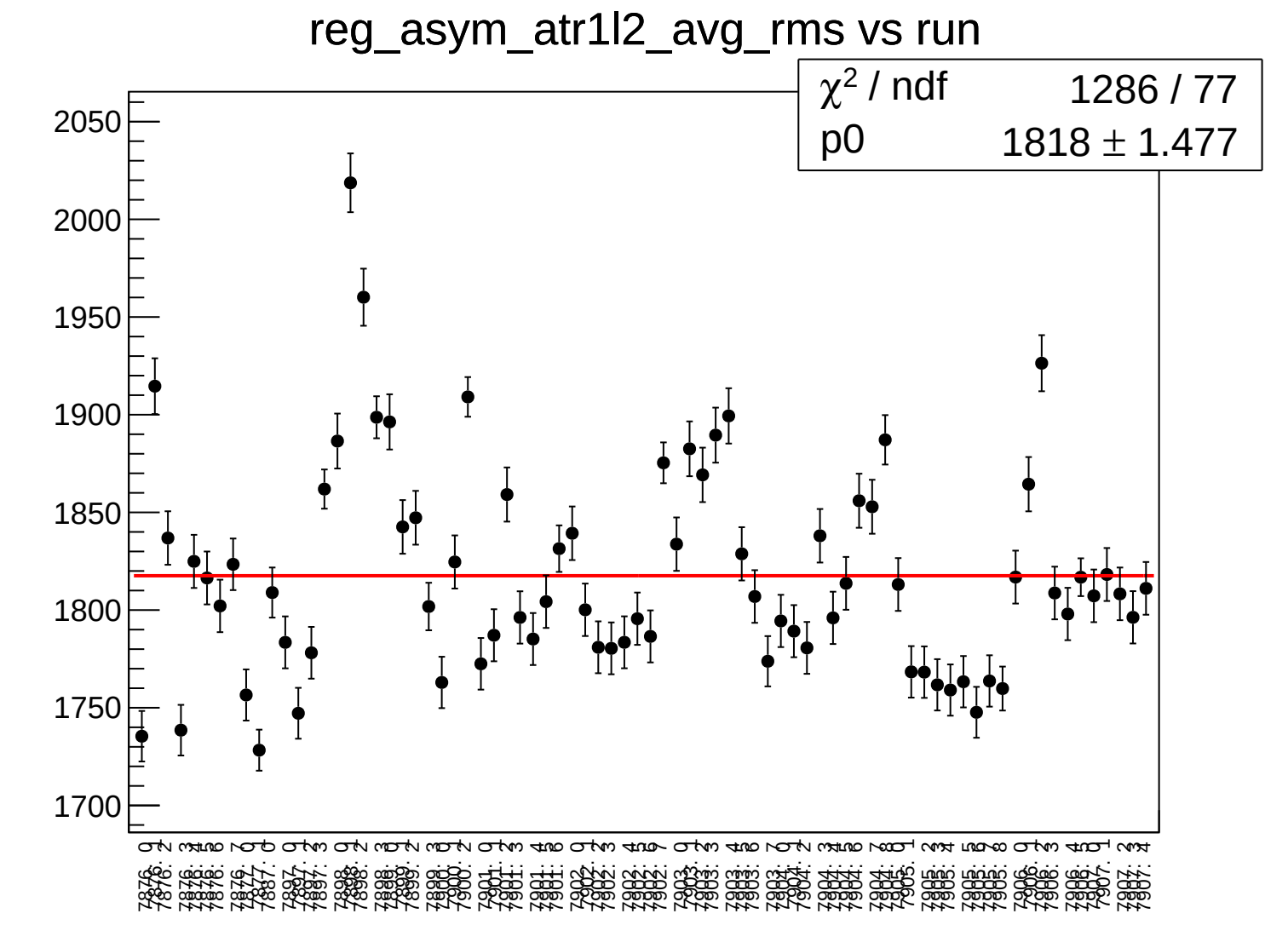

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 72.81 / 77
p0 1.304e+04 ± 9005
pull
Entries 78
Mean −357.1
Std Dev 405

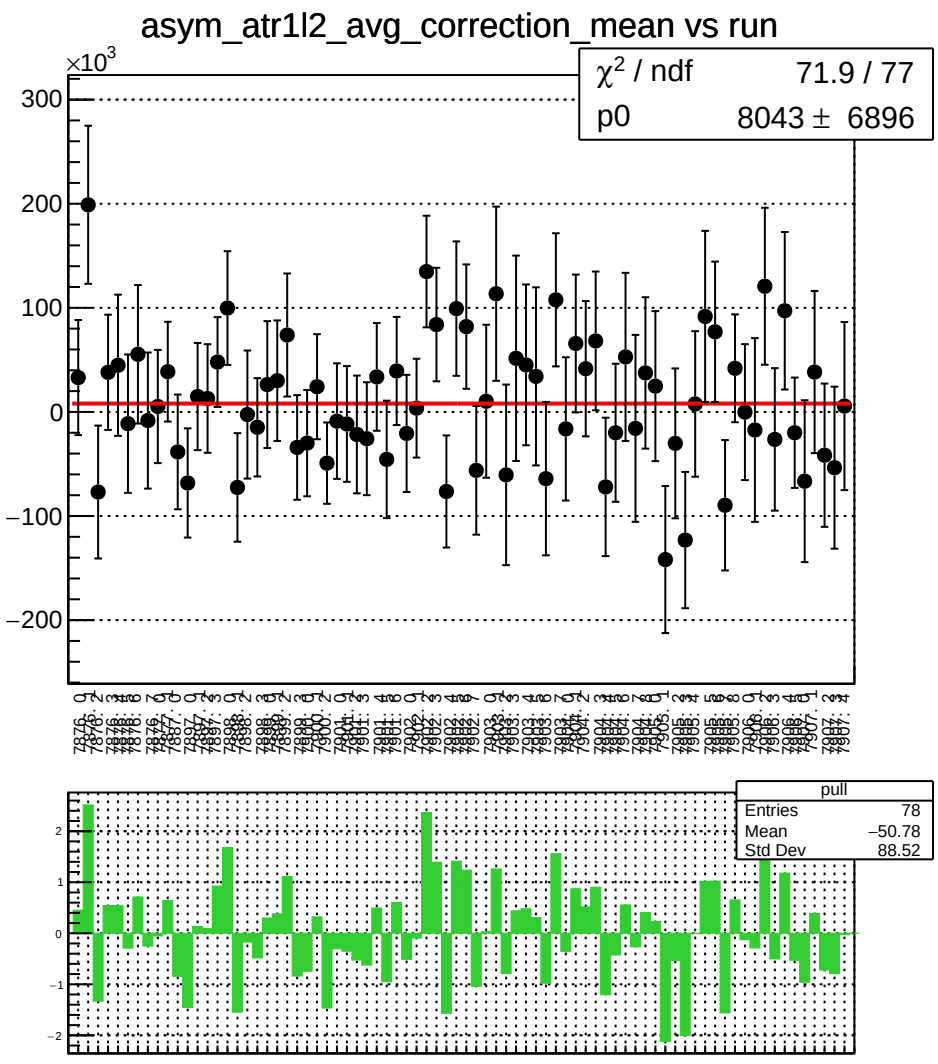

pull1D
Entries 78
Mean 0.004953
Std Dev 0.9662

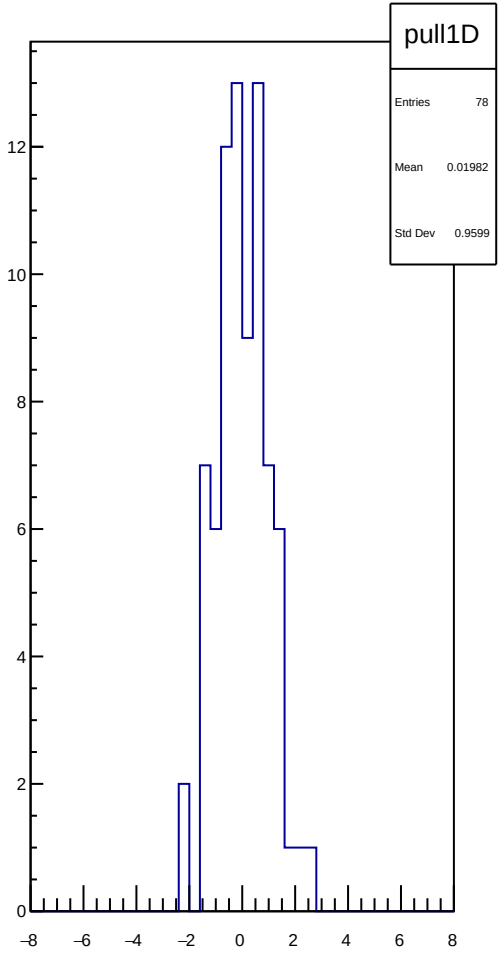

asym_atl1r2_dd_rms vs run
χ^2 / ndf 2.735e+04 / 77
p0 7769 ± 6.368
10000
9000
8000
7000
6000

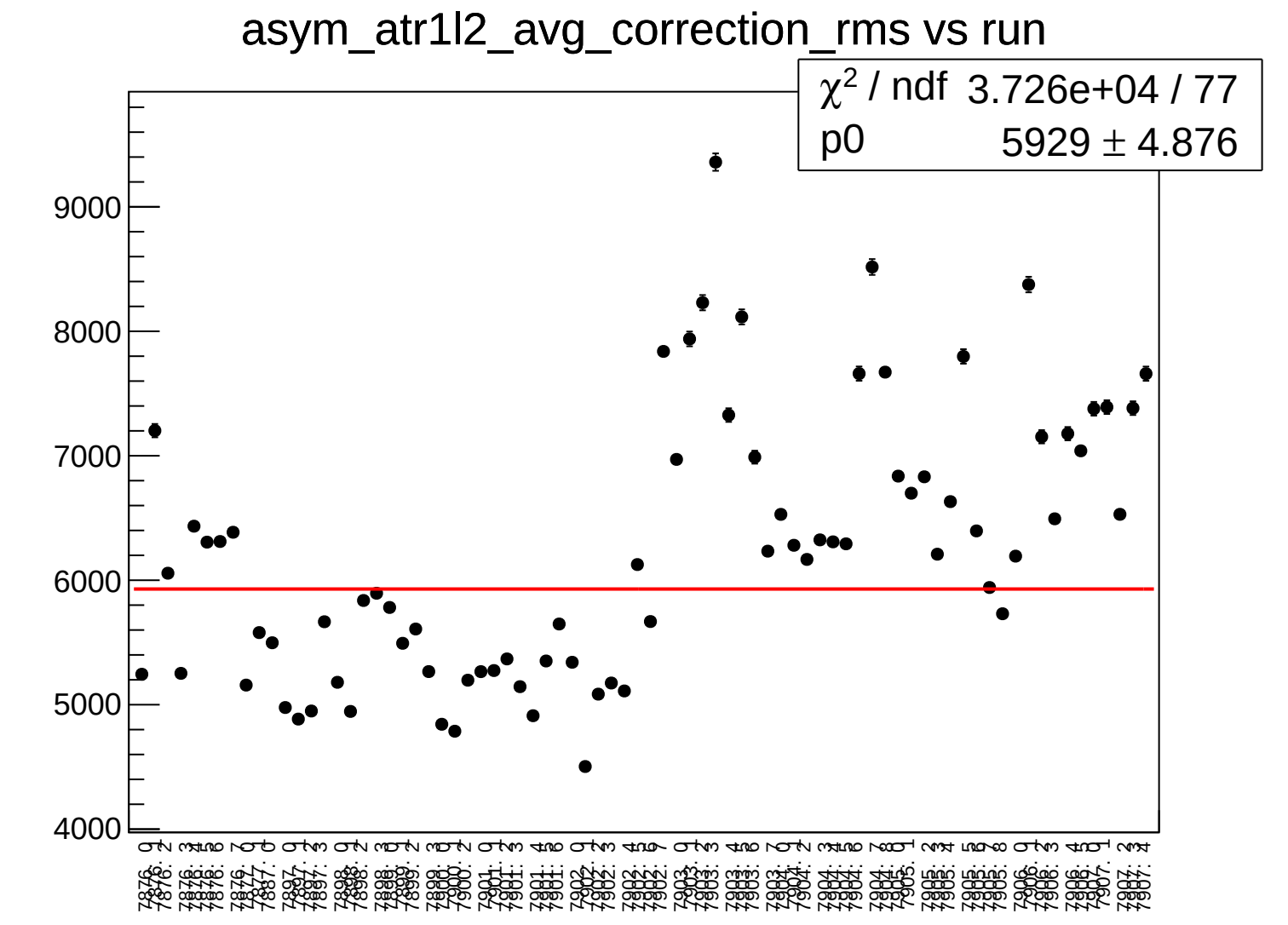

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 80.8 / 77
p0 1420 ± 2089
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean −1212
Std Dev 1247
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

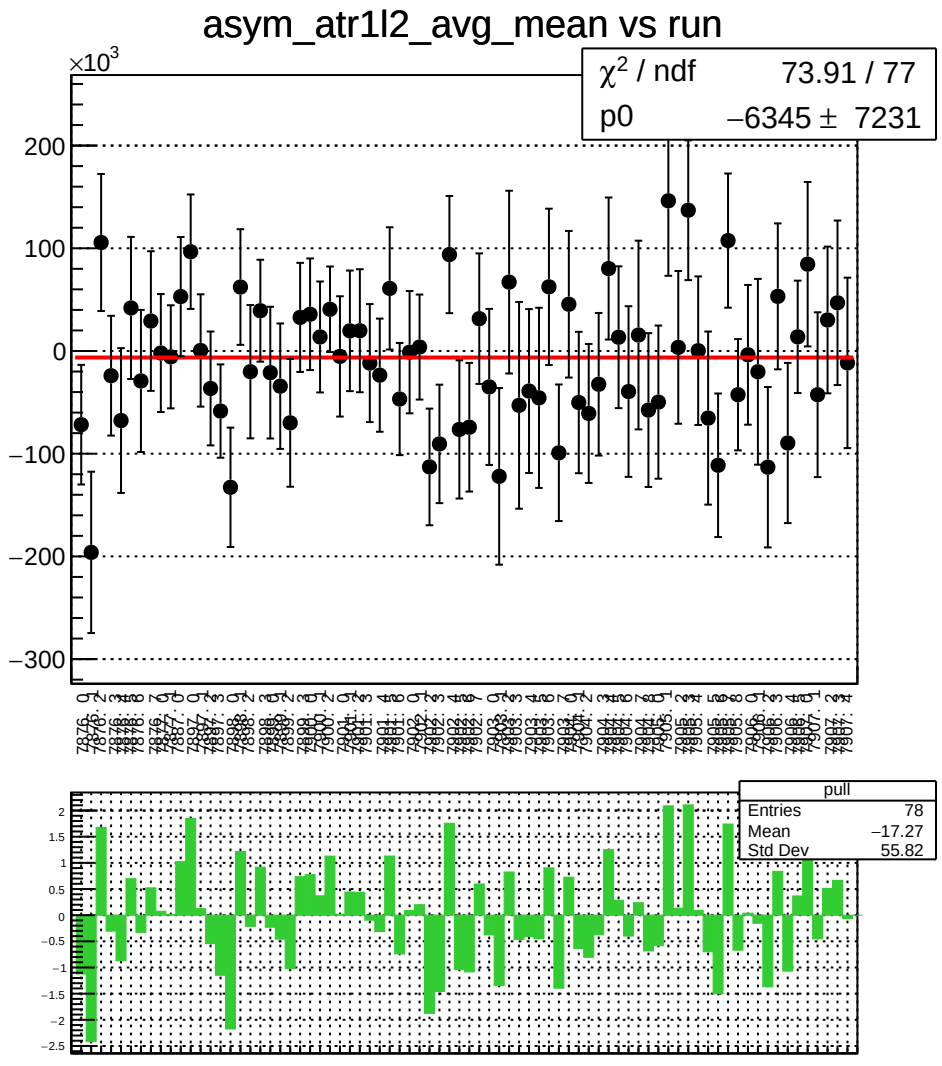

pull1D
Entries 78
Mean 0.002007
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

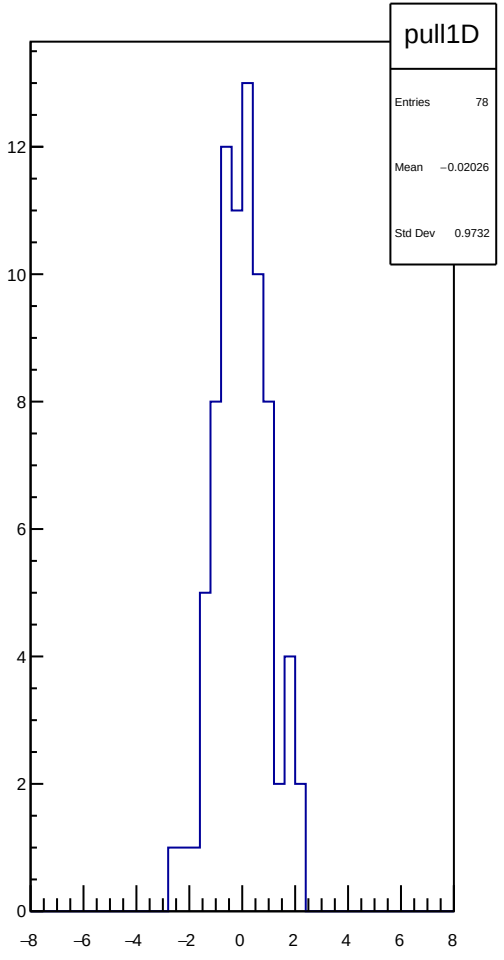

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 1286 / 77
p0 1818 ± 1.477
2050
2000
1950
1900
1850
1800
1750
1700

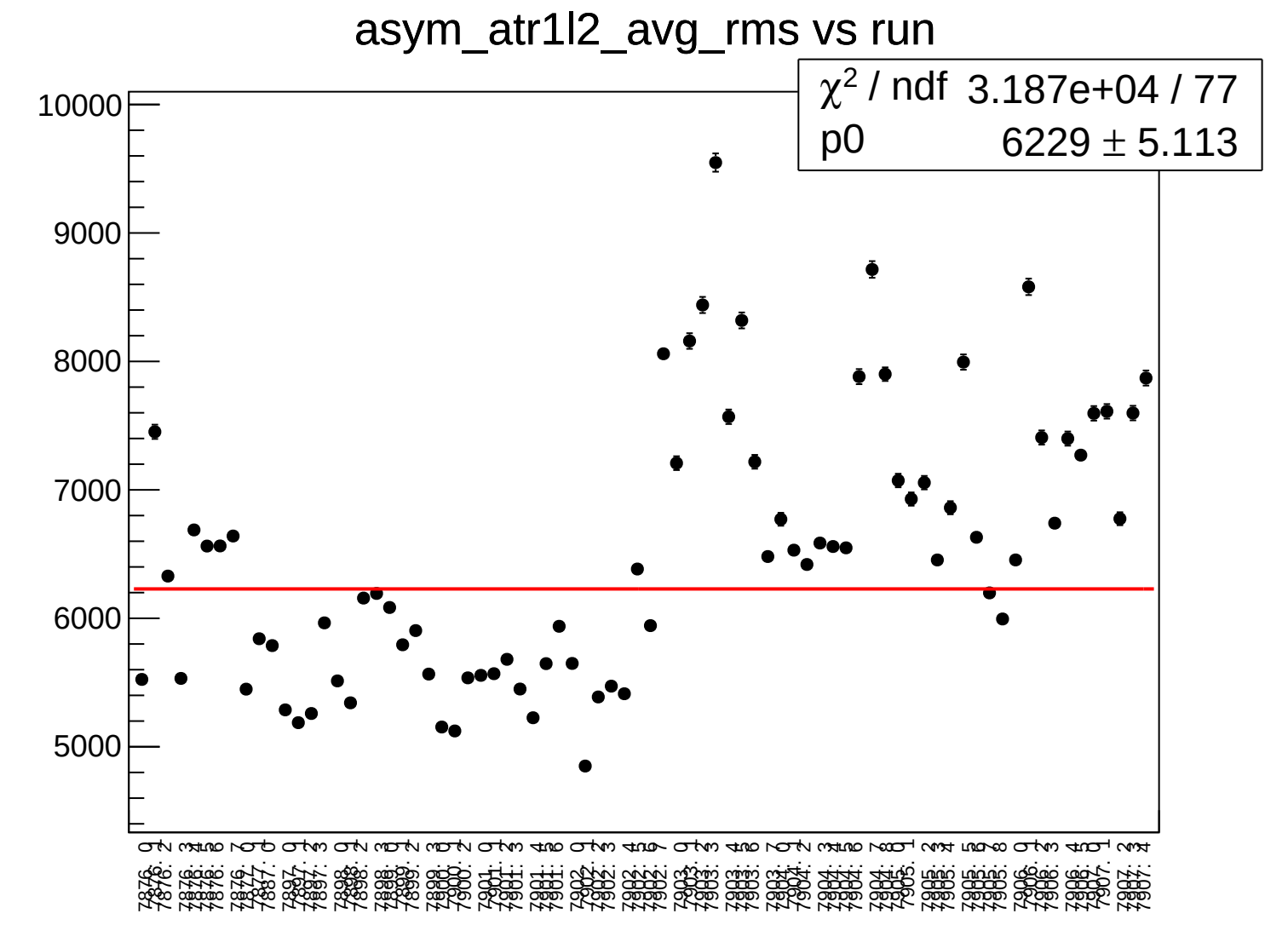

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 71.9 / 77
p0 8043 ± 6896
300
200
100
0
−100
−200
pull
Entries 78
Mean −50.78
Std Dev 88.52
2
1
0
−1
−2

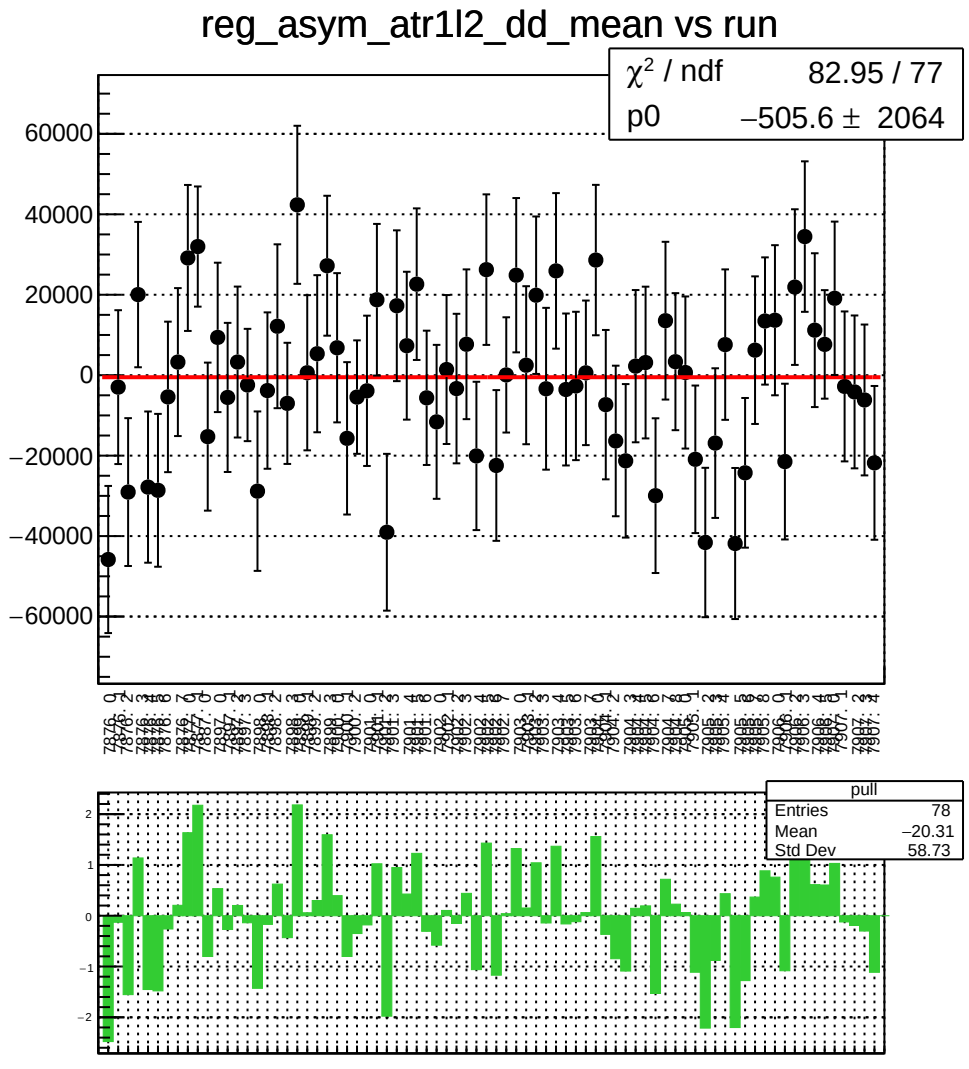

pull1D
Entries 78
Mean 0.01982
Std Dev 0.9599
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

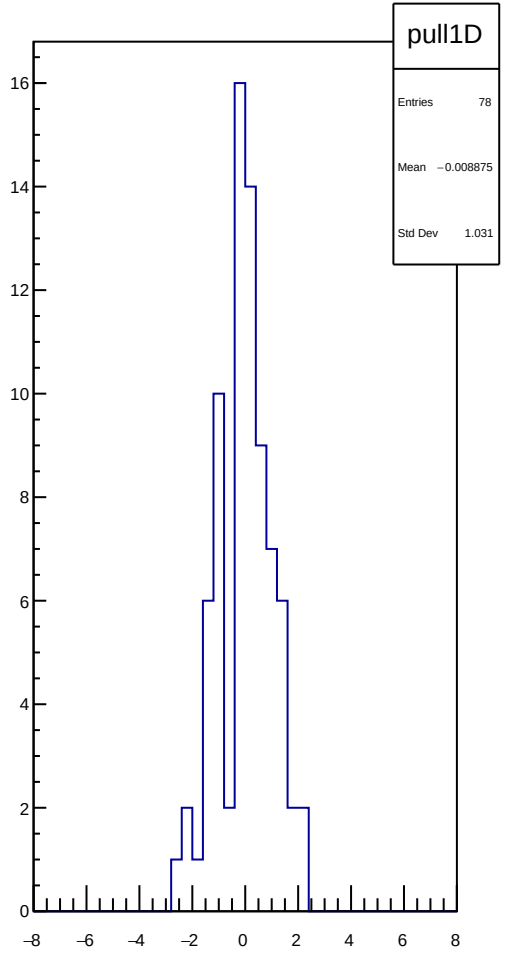

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 3.726e+04 / 77
p0 5929 ± 4.876
9000
8000
7000
6000
5000
4000

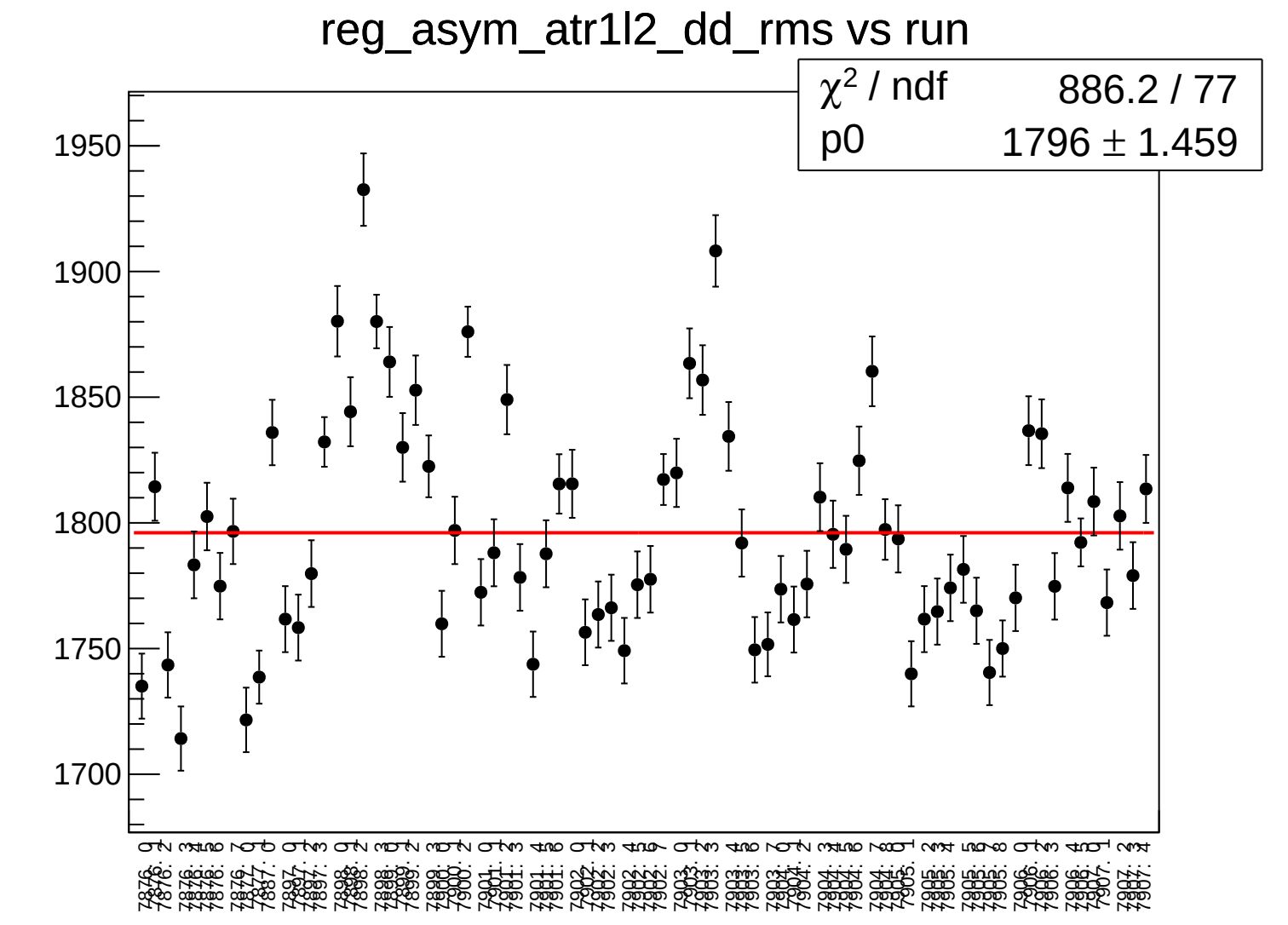

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 73.91 / 77
p0 −6345 ± 7231
200
100
0
−100
−200
−300
pull
Entries 78
Mean −17.27
Std Dev 55.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

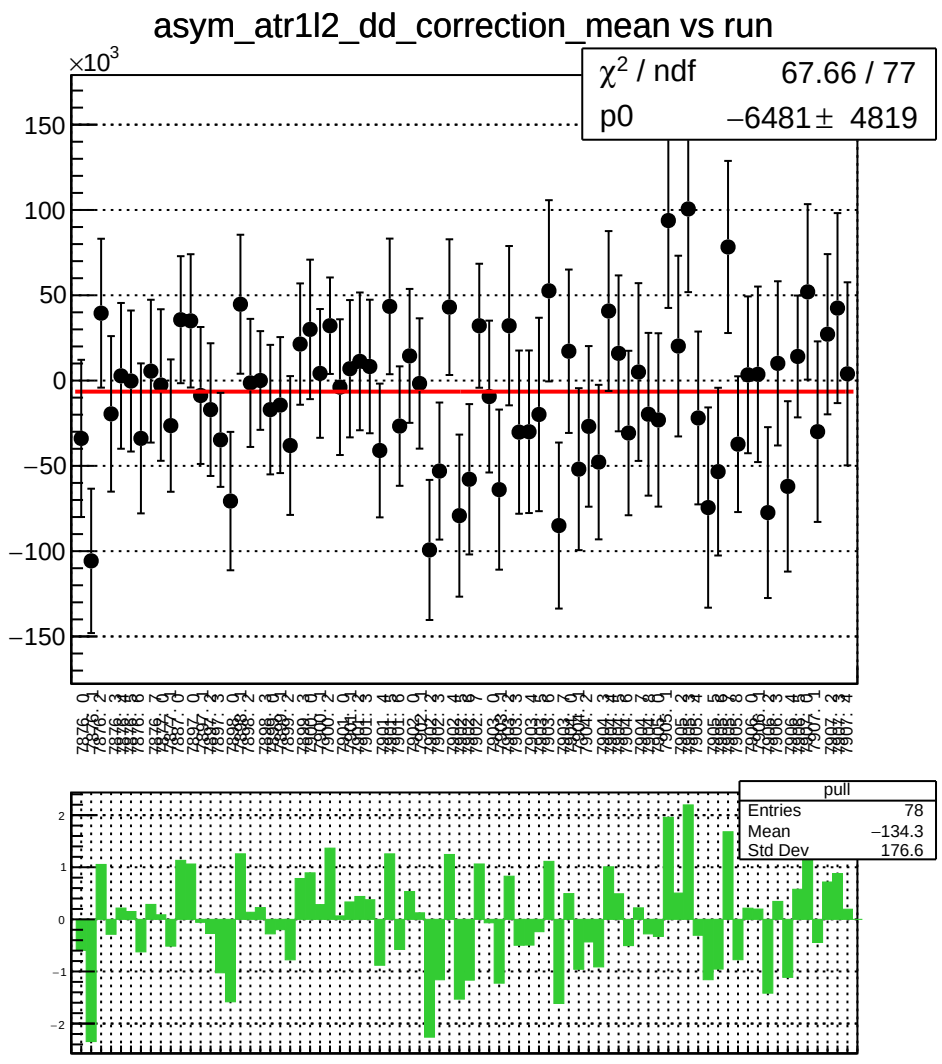

pull1D
Entries 78
Mean −0.02026
Std Dev 0.9732
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

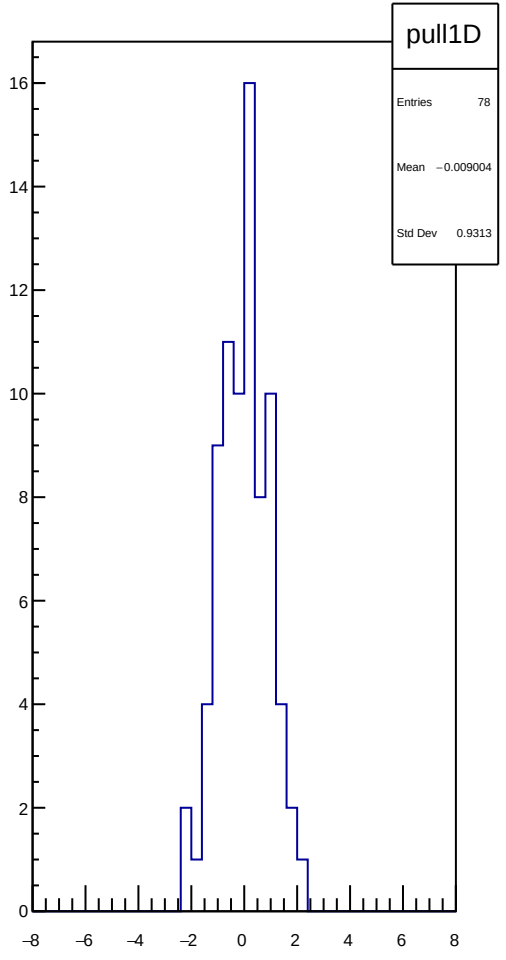

asym_atr1l2_avg_rms vs run
χ^2 / ndf 3.187e+04 / 77
p0 6229 ± 5.113
10000
9000
8000
7000
6000
5000

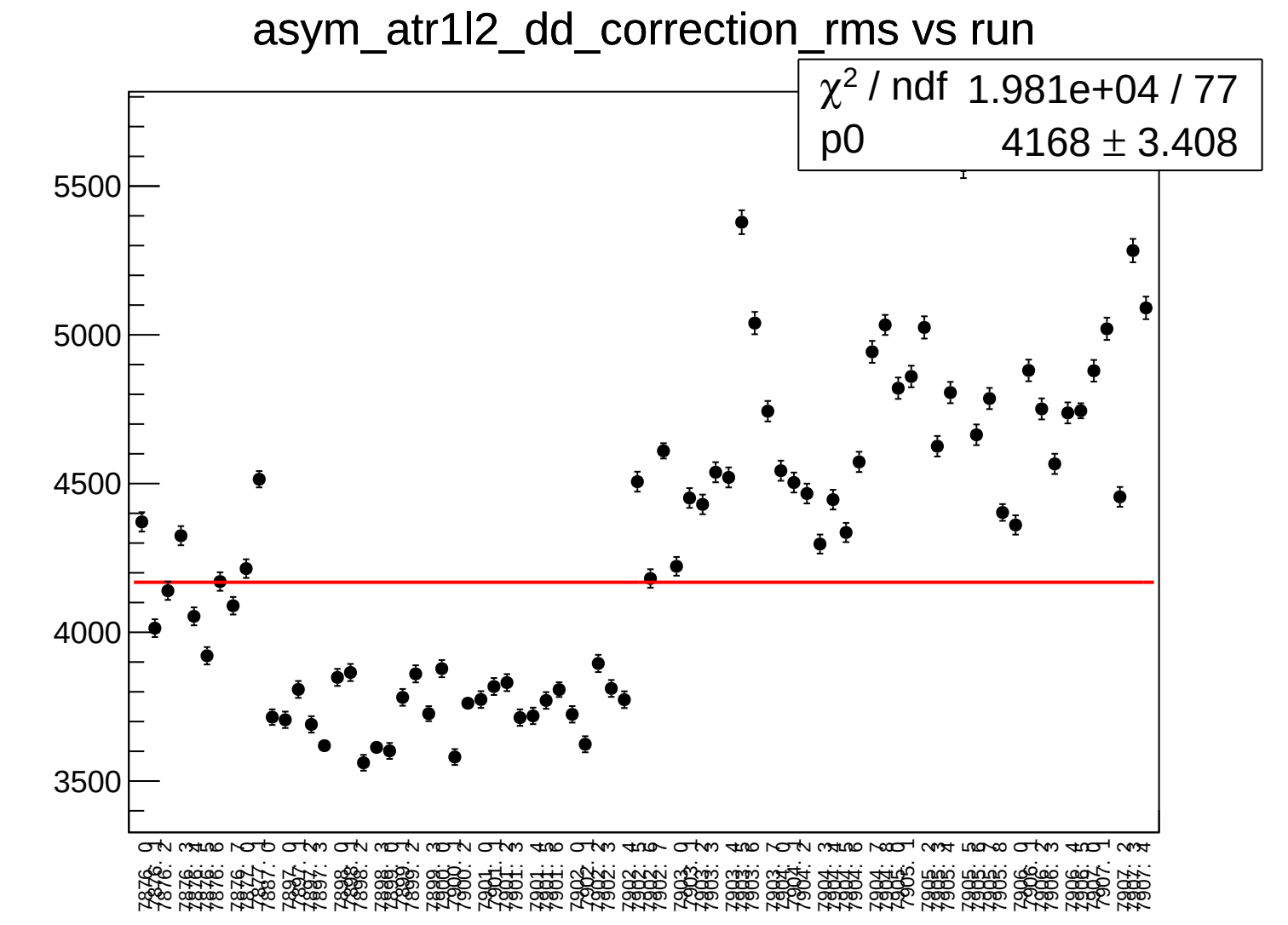

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 82.95 / 77
p0 −505.6 ± 2064
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean −20.31
Std Dev 58.73
2
1
0
−1
−2

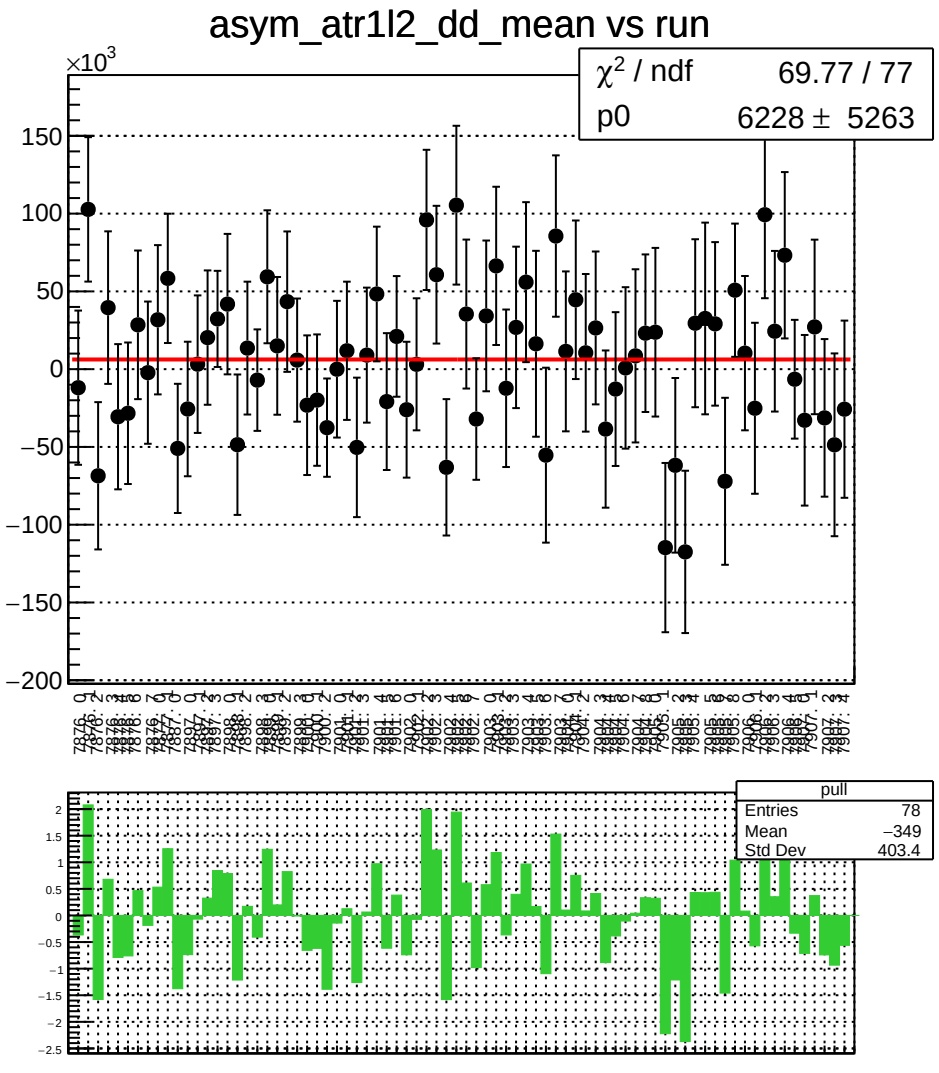

pull1D
Entries 78
Mean −0.008875
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

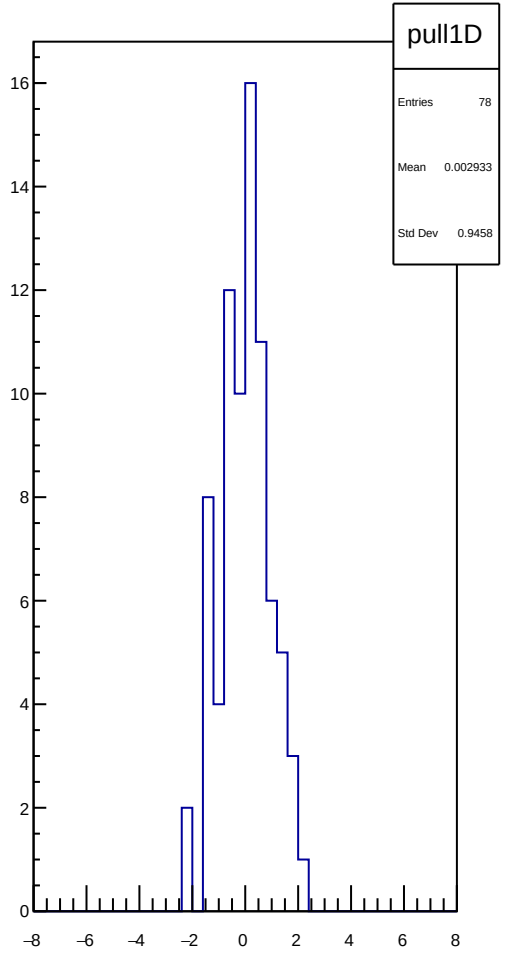

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 886.2 / 77
p0 1796 ± 1.459
1950
1900
1850
1800
1750
1700

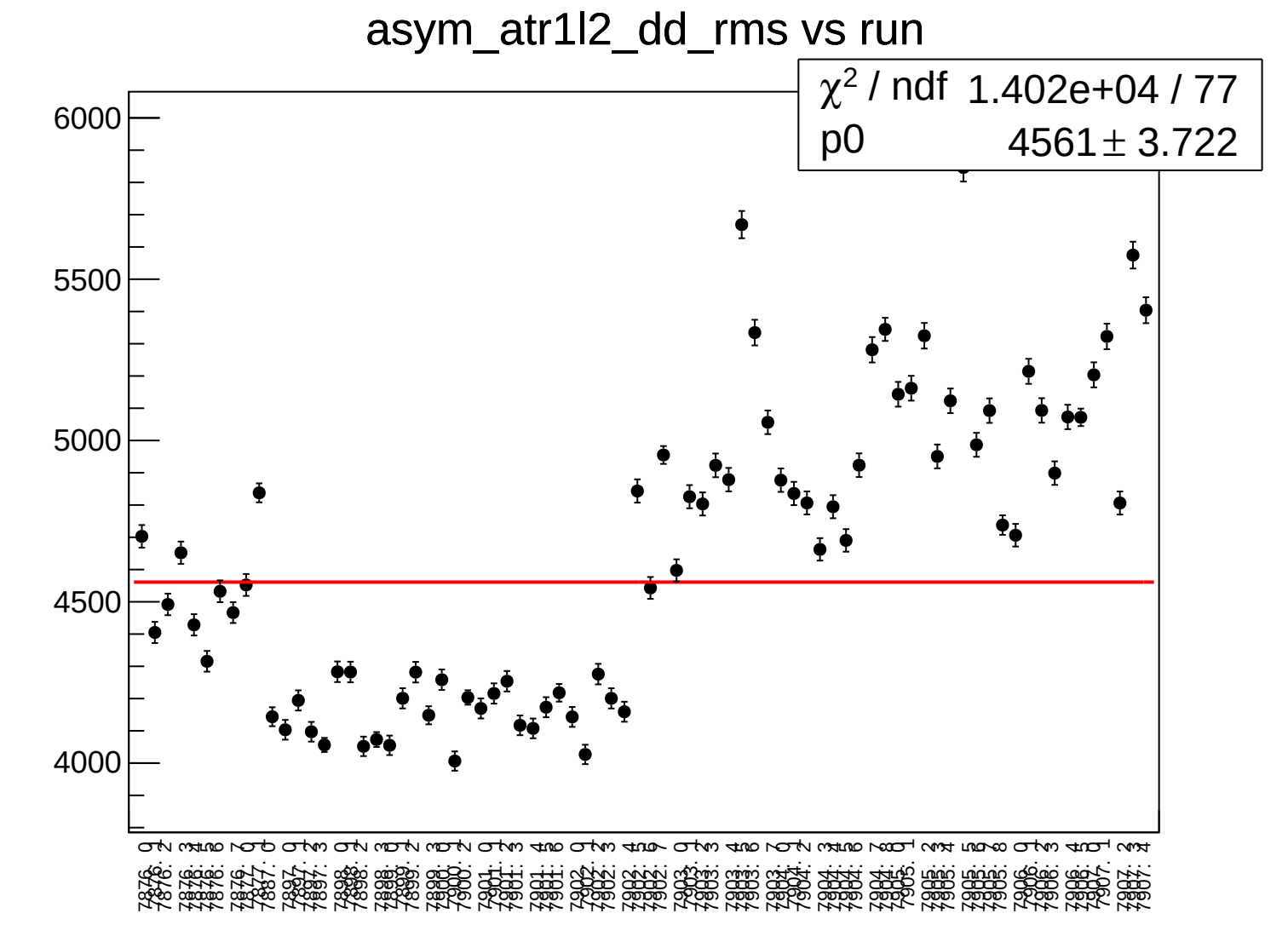

asym_atr1l2_dd_correction_mean vs run
×10^3
χ² / ndf 67.66 / 77
p0 −6481 ± 4819
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −134.3
Std Dev 176.6
2
1
0
−1
−2

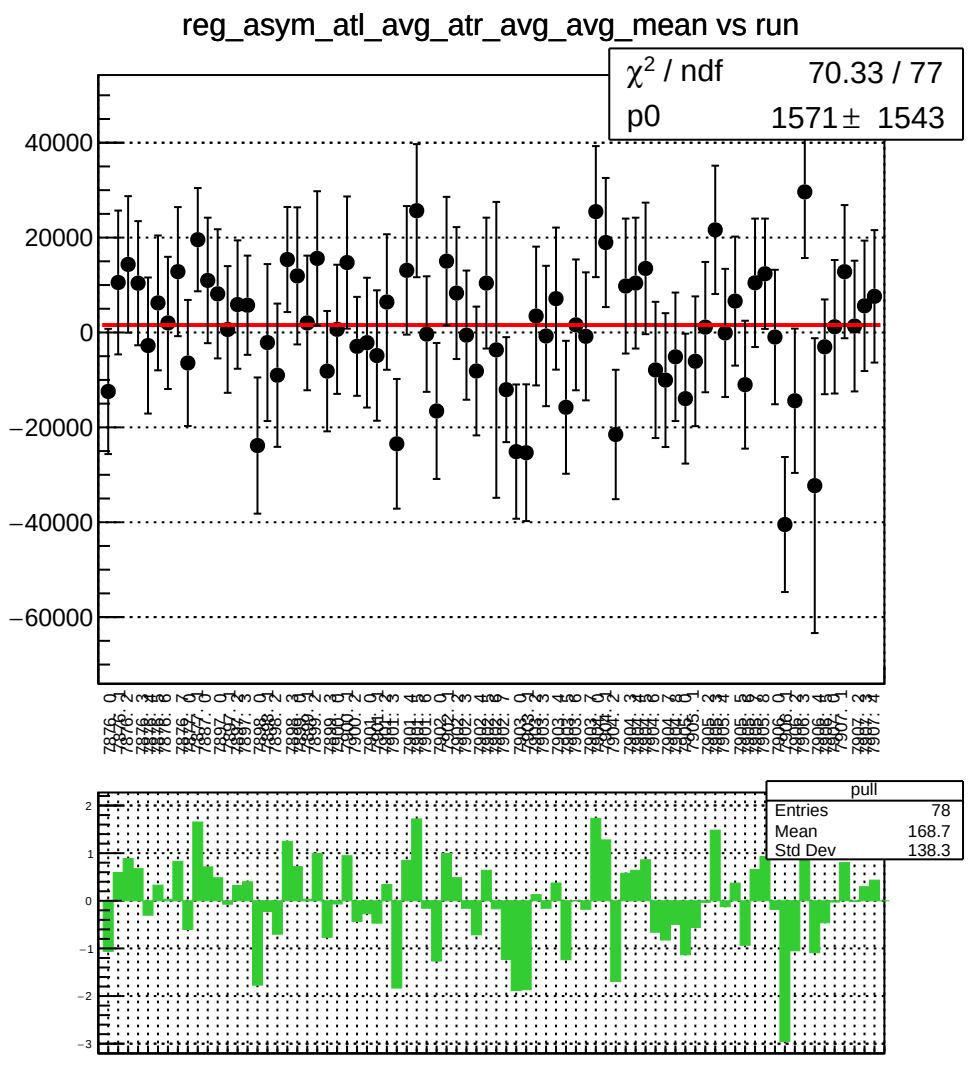

pull1D
Entries 78
Mean −0.009004
Std Dev 0.9313
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

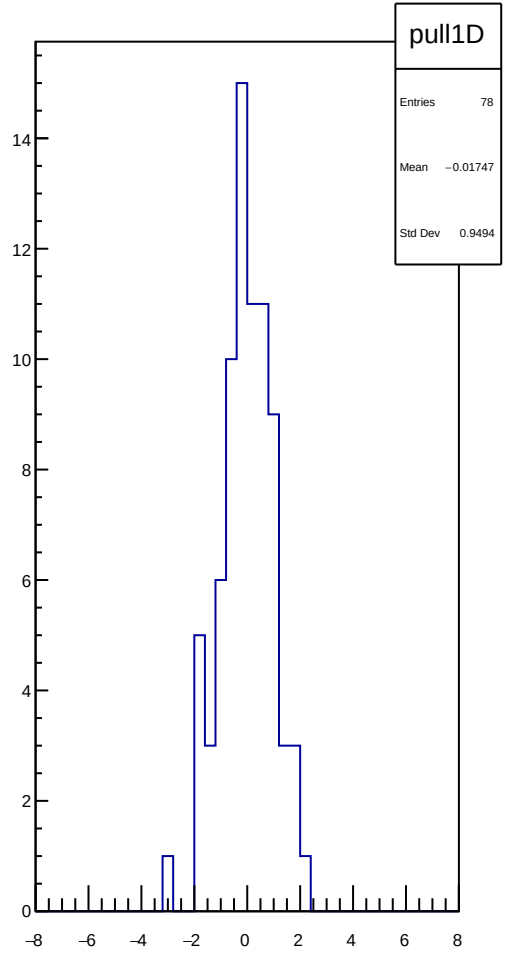

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 1.981e+04 / 77
p0 4168 ± 3.408
5500
5000
4500
4000
3500

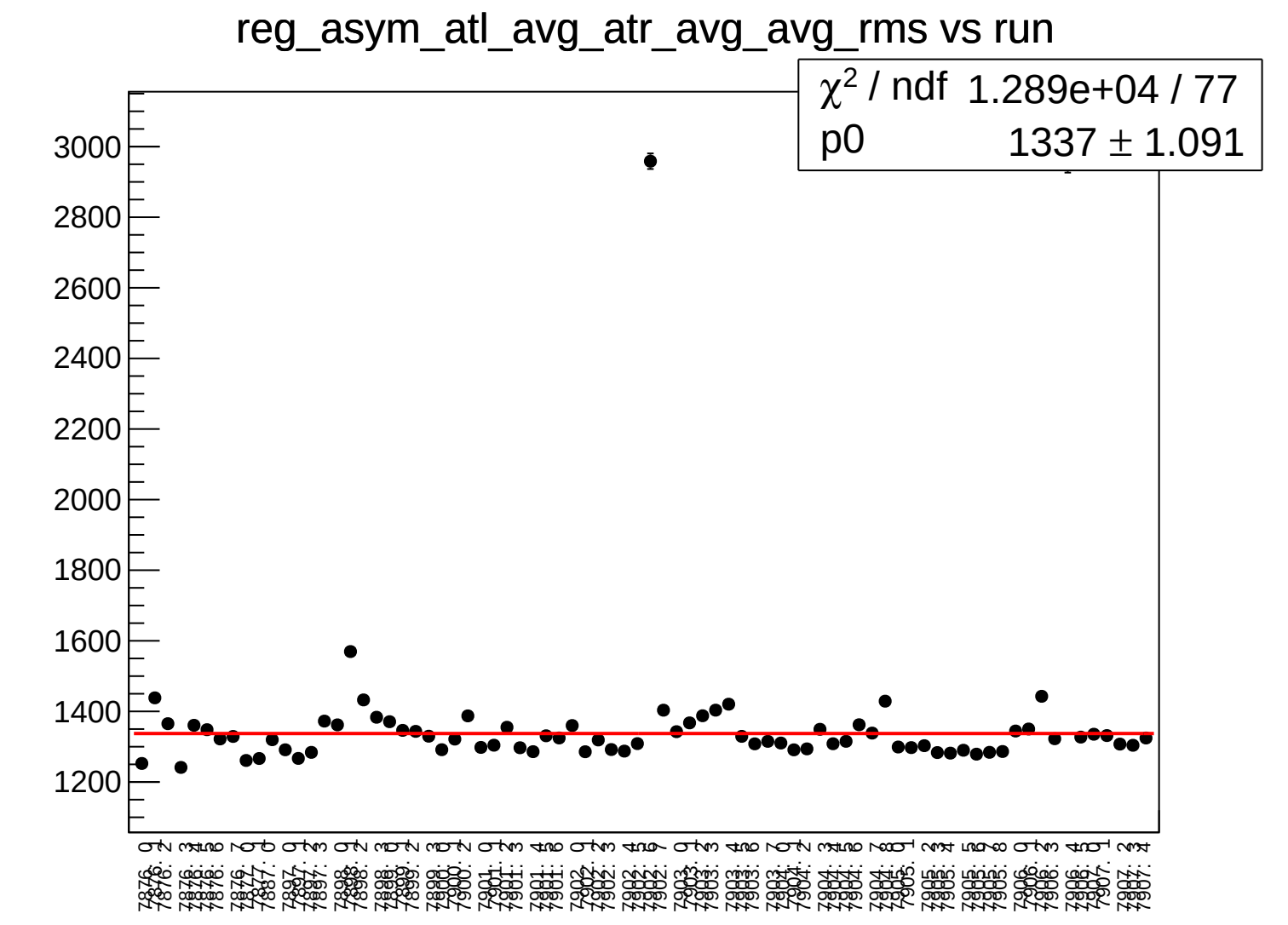

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 69.77 / 77
p0 6228 ± 5263
150
100
50
0
−50
−100
−150
−200
pull
Entries 78
Mean −349
Std Dev 403.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

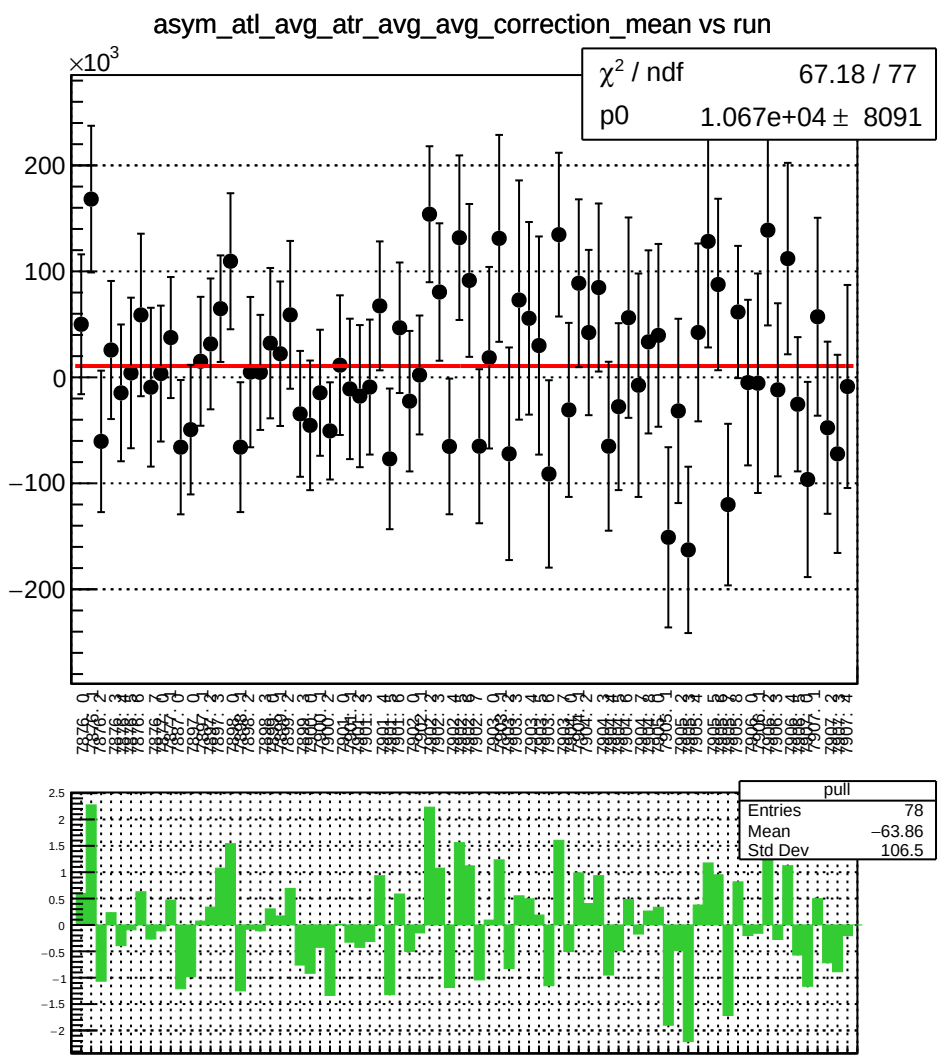

pull1D
Entries 78
Mean 0.002933
Std Dev 0.9458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

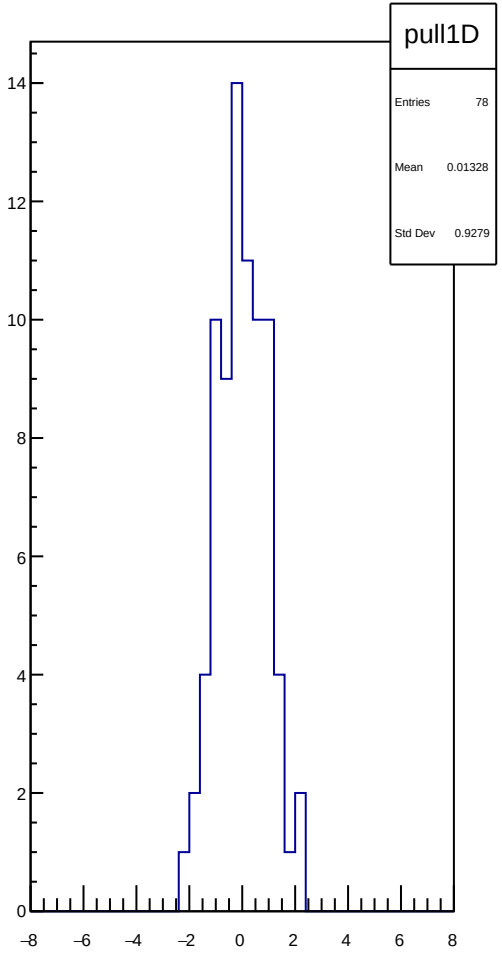

asym_atr1l2_dd_rms vs run
χ² / ndf 1.402e+04 / 77
p0 4561 ± 3.722
6000
5500
5000
4500
4000

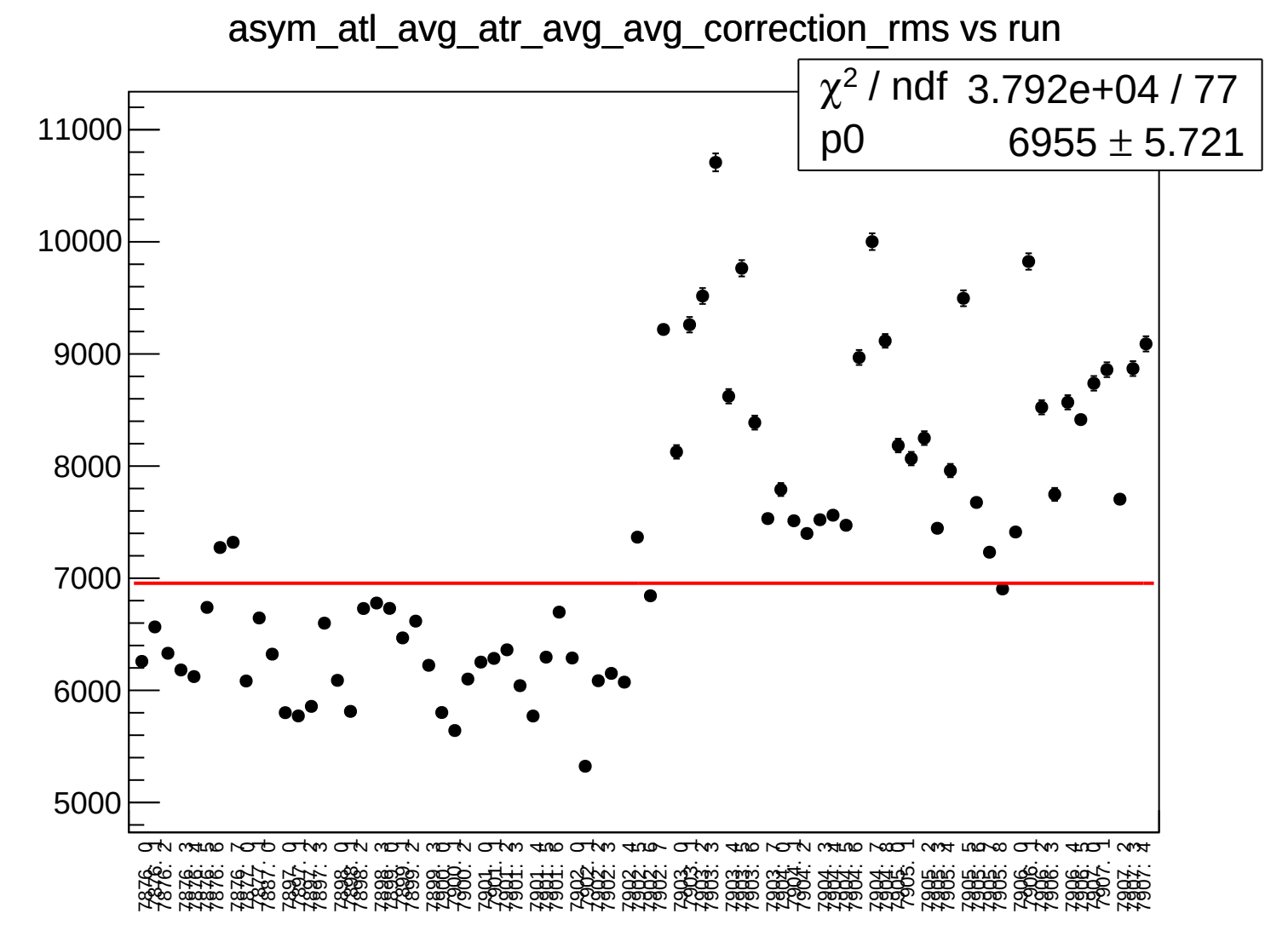

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 70.33 / 77
p0 1571 ± 1543
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean 168.7
Std Dev 138.3
2
1
0
−1
−2
−3

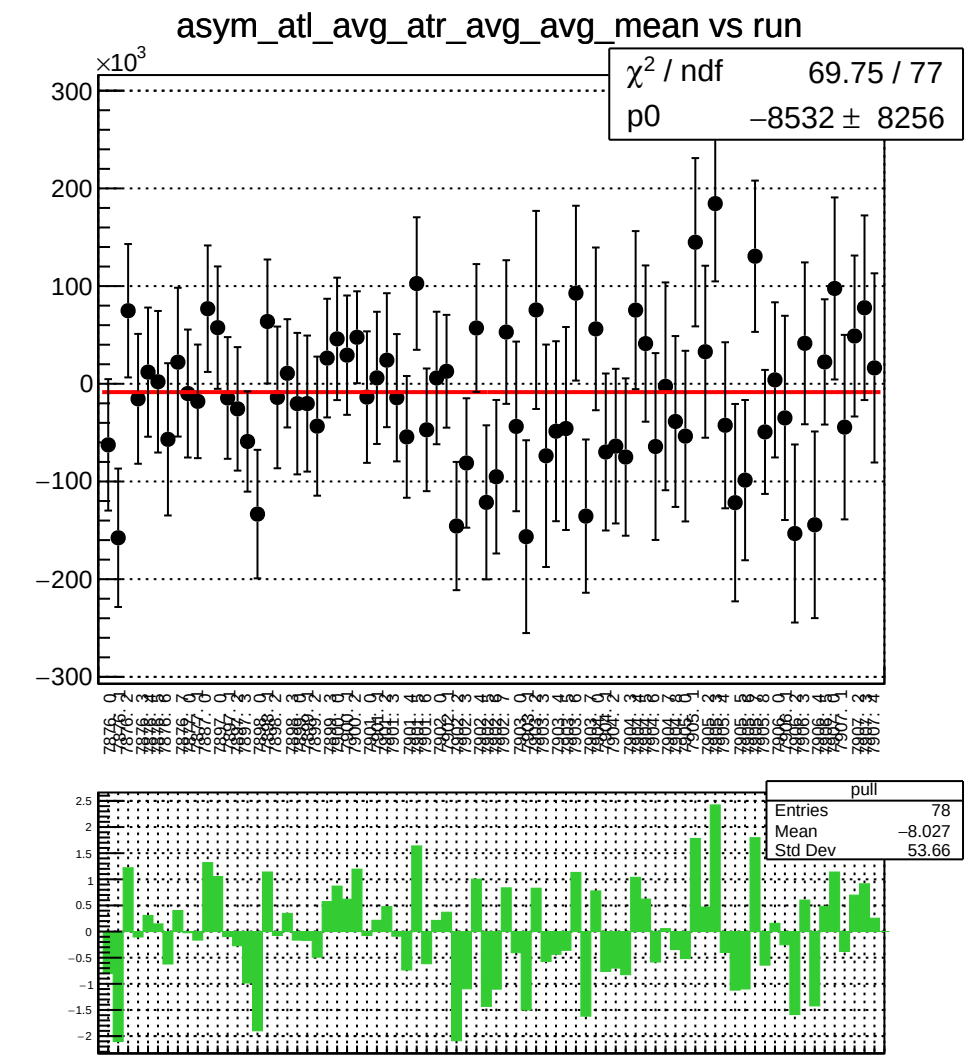

pull1D
Entries 78
Mean −0.01747
Std Dev 0.9494
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

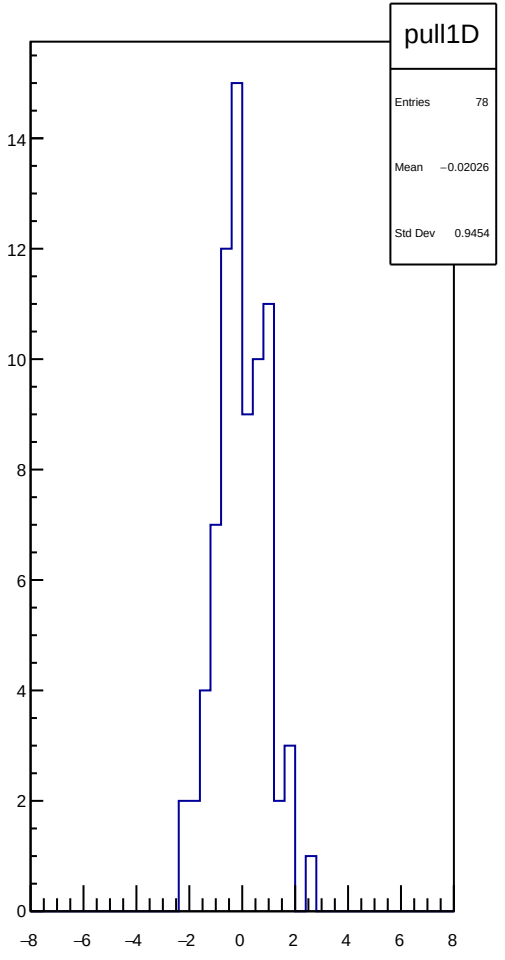

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.289e+04 / 77
p0 1337 ± 1.091
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

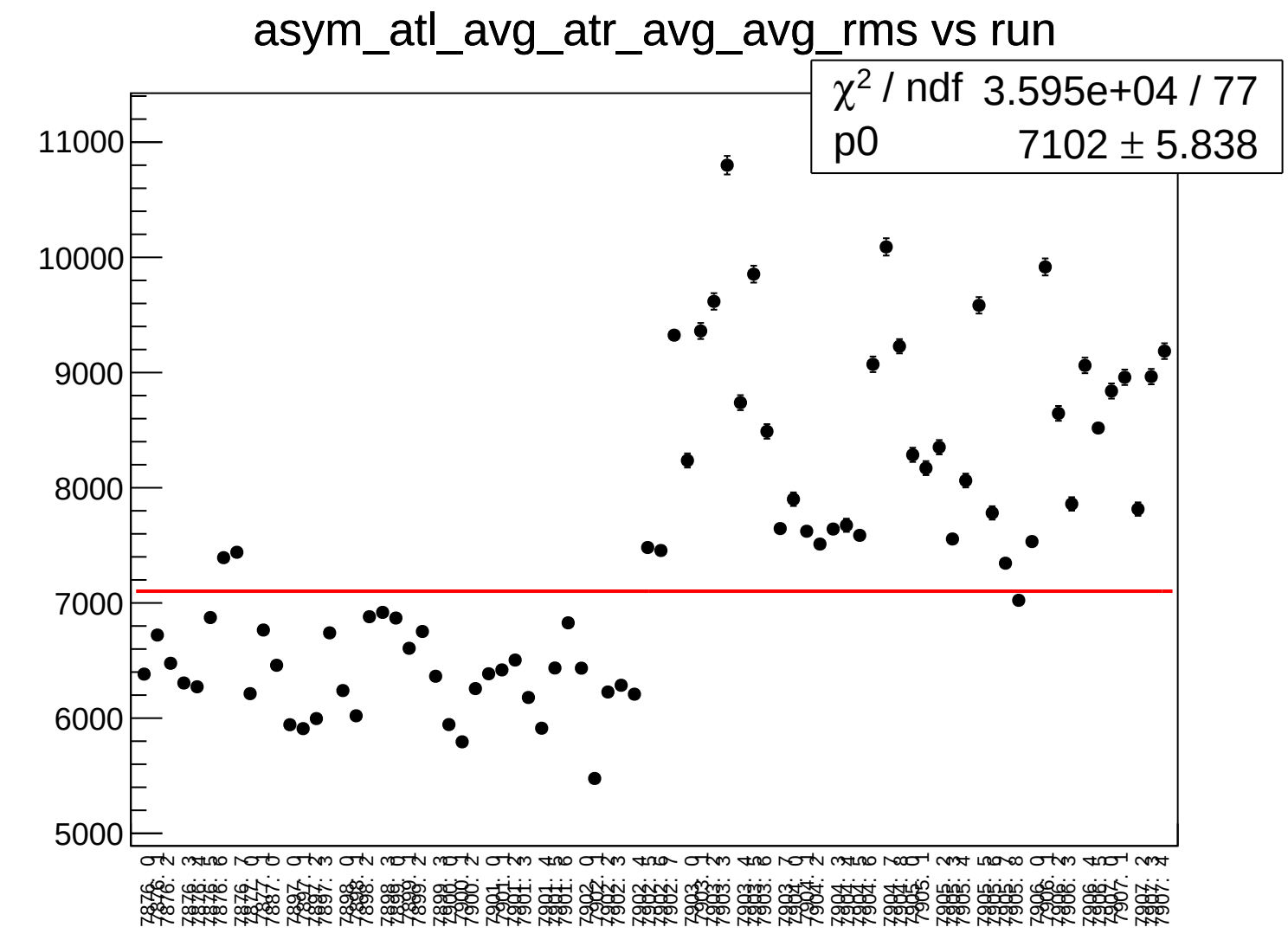

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 67.18 / 77
p0 1.067e+04 ± 8091
200
100
0
−100
−200
pull
Entries 78
Mean −63.86
Std Dev 106.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

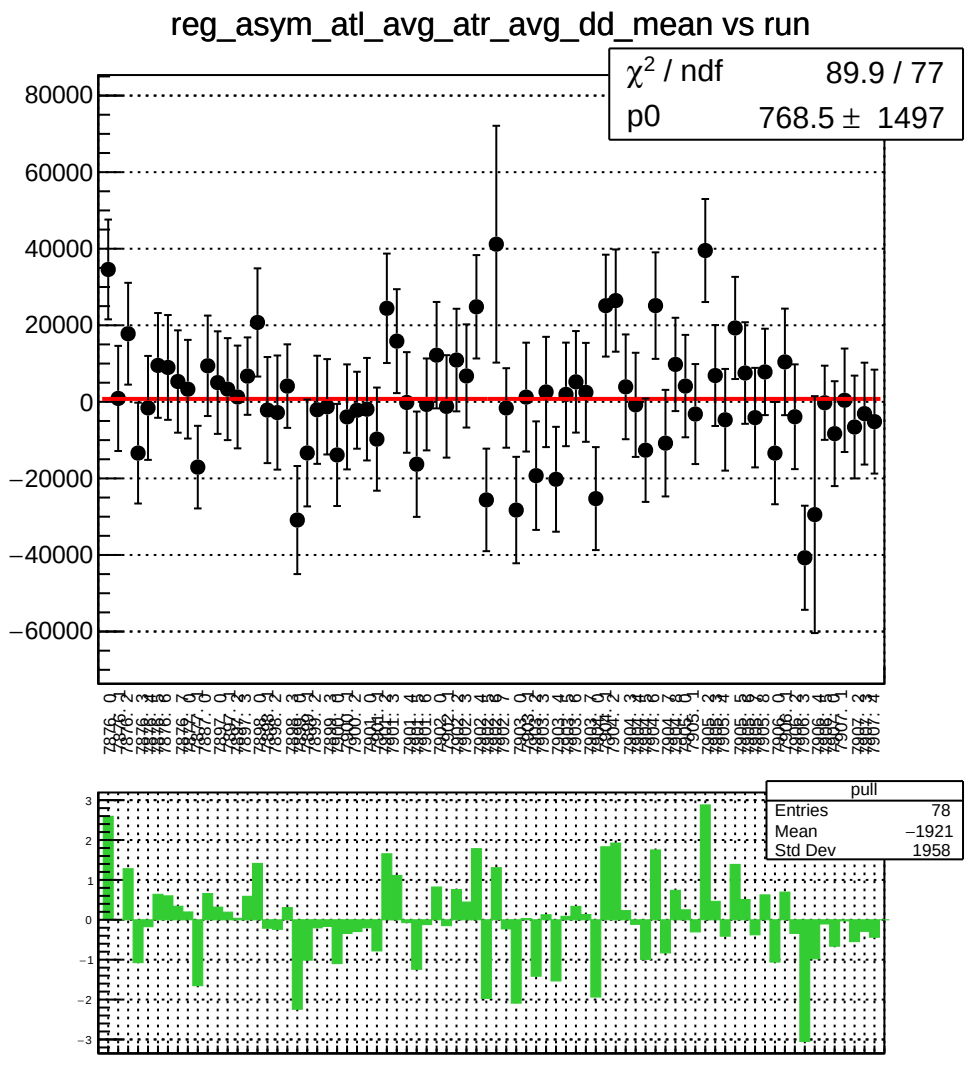

pull1D
Entries 78
Mean 0.01328
Std Dev 0.9279
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

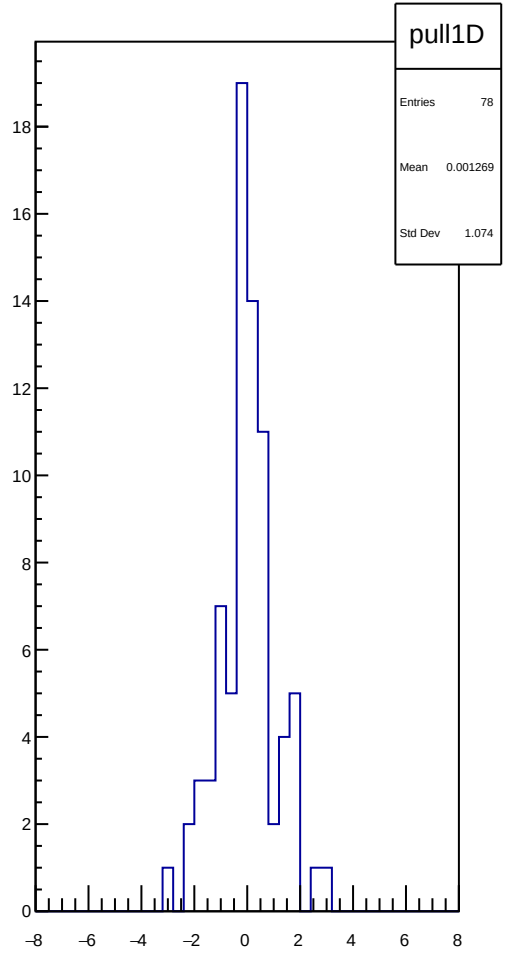

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 3.792e+04 / 77
p0 6955 ± 5.721
11000
10000
9000
8000
7000
6000
5000

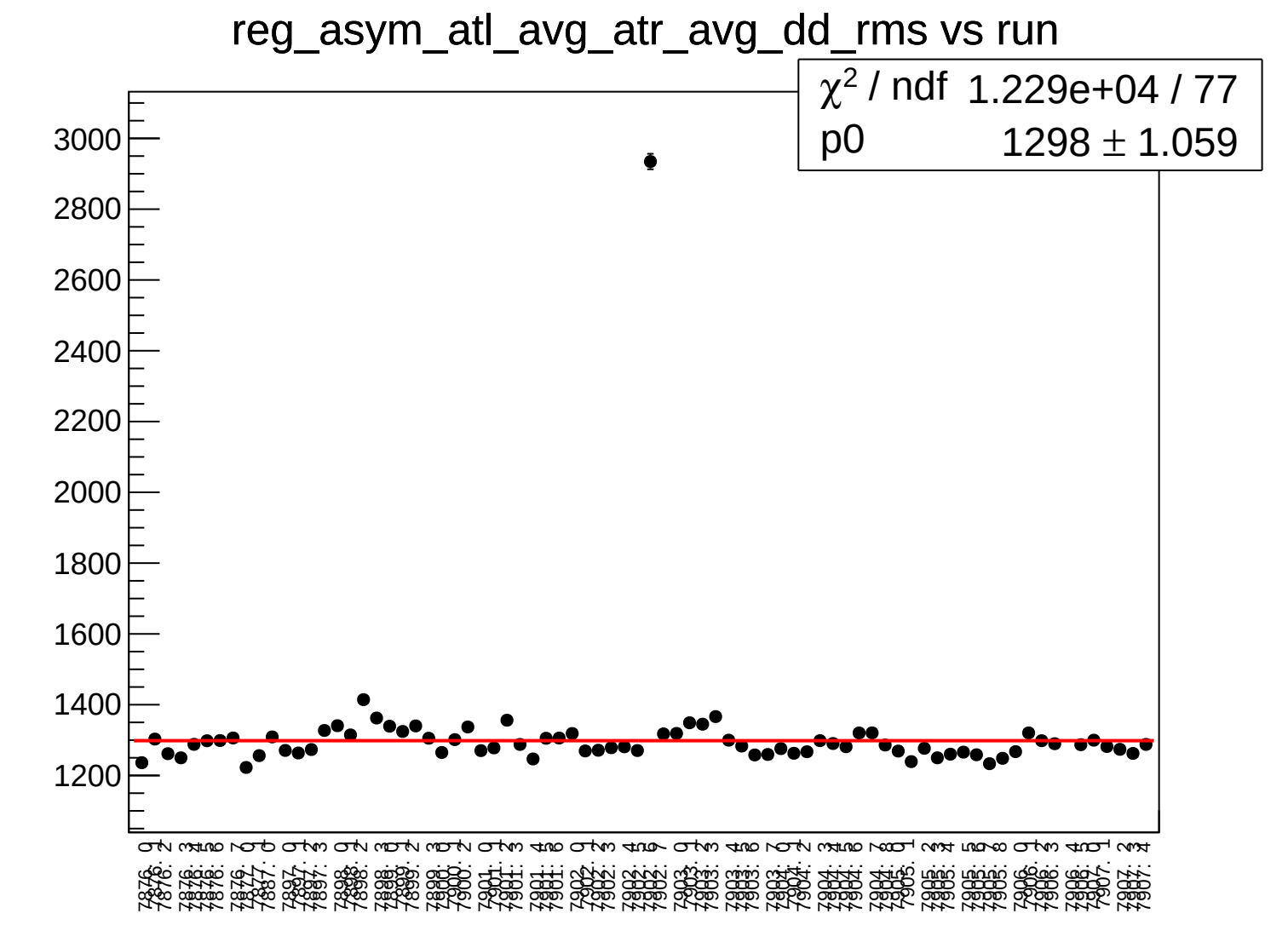

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 69.75 / 77
p0 −8532 ± 8256
pull
Entries 78
Mean −8.027
Std Dev 53.66

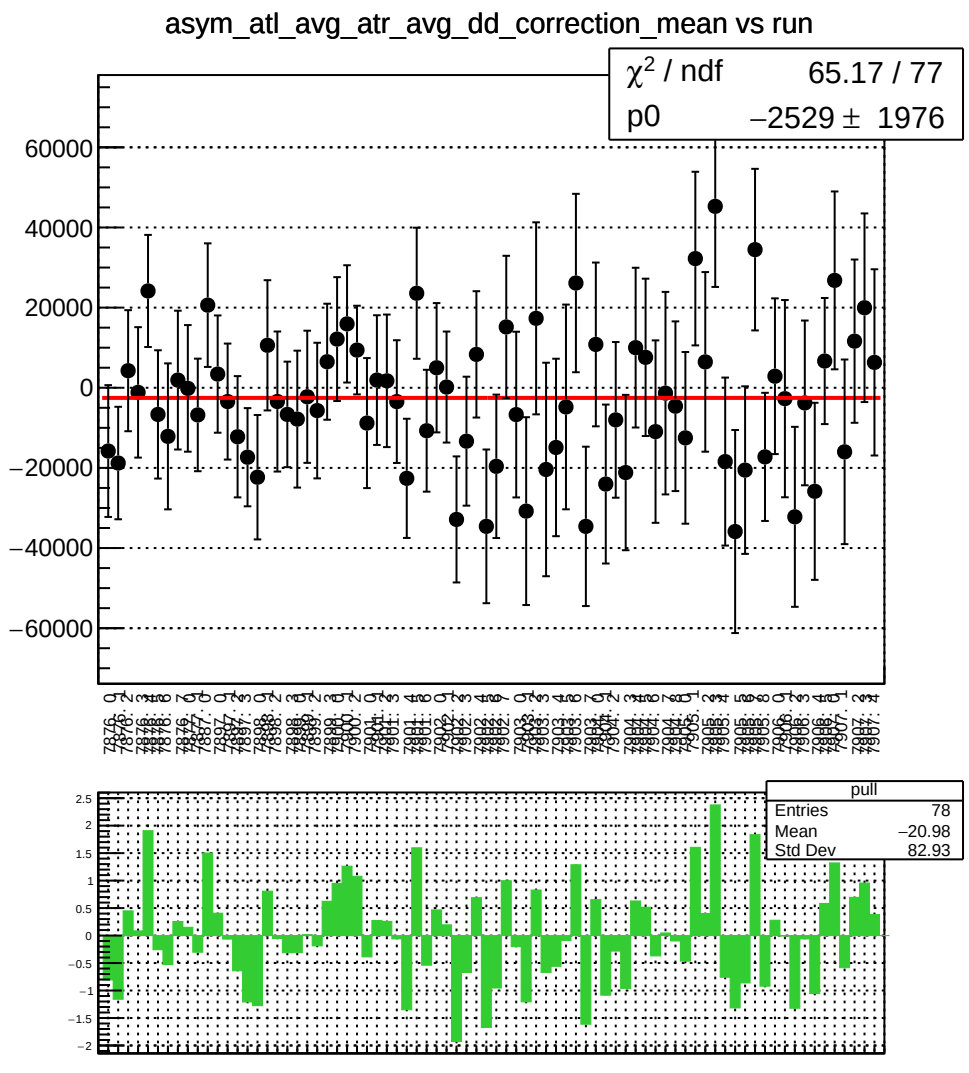

pull1D
Entries 78
Mean −0.02026
Std Dev 0.9454

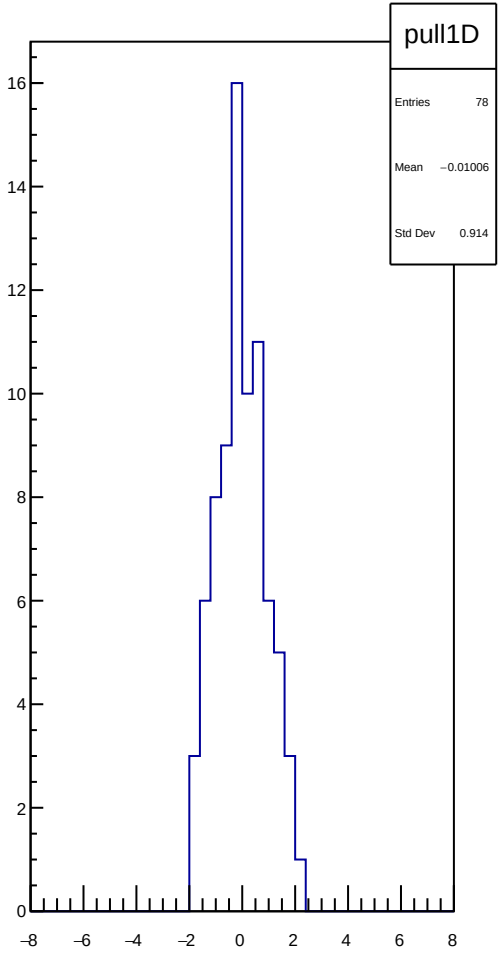

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3.595e+04 / 77
p0 7102 ± 5.838
11000
10000
9000
8000
7000
6000
5000

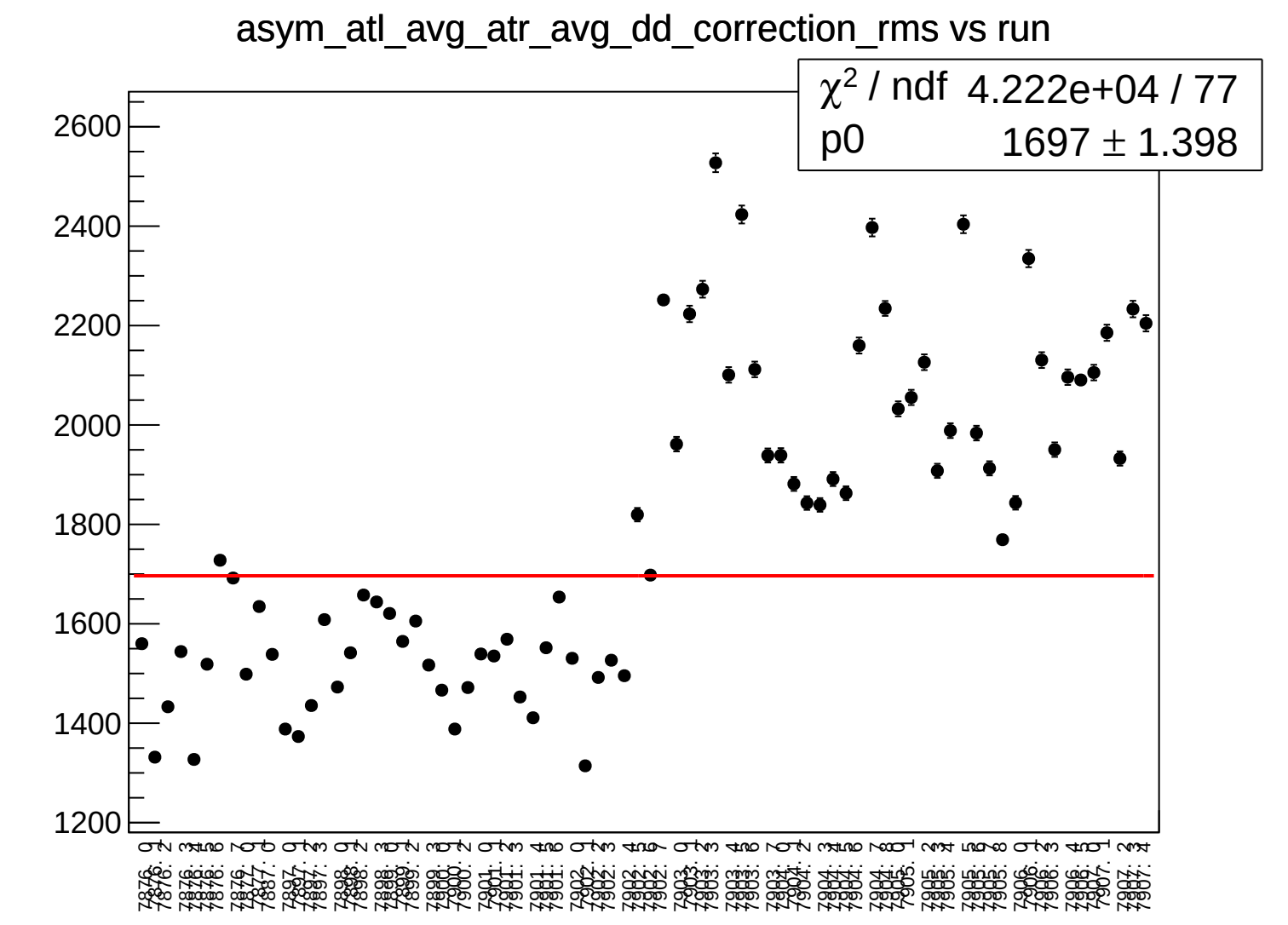

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 89.9 / 77
p0 768.5 ± 1497
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean −1921
Std Dev 1958
3
2
1
0
−1
−2
−3

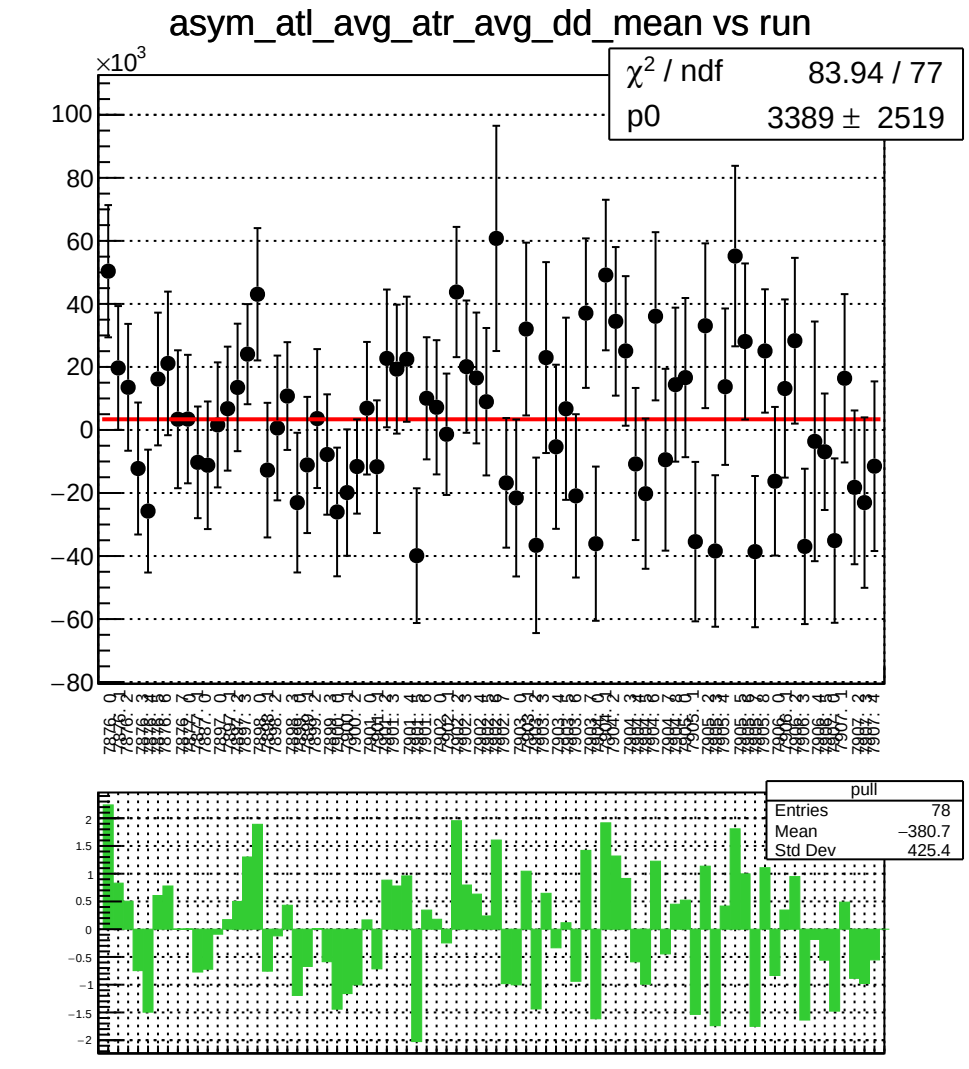

pull1D
Entries 78
Mean 0.001269
Std Dev 1.074
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

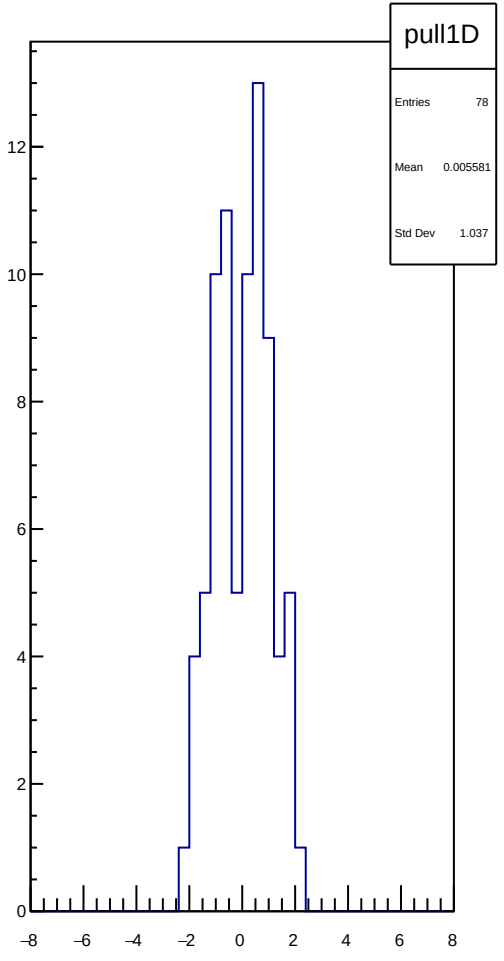

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.229e+04 / 77
p0 1298 ± 1.059
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

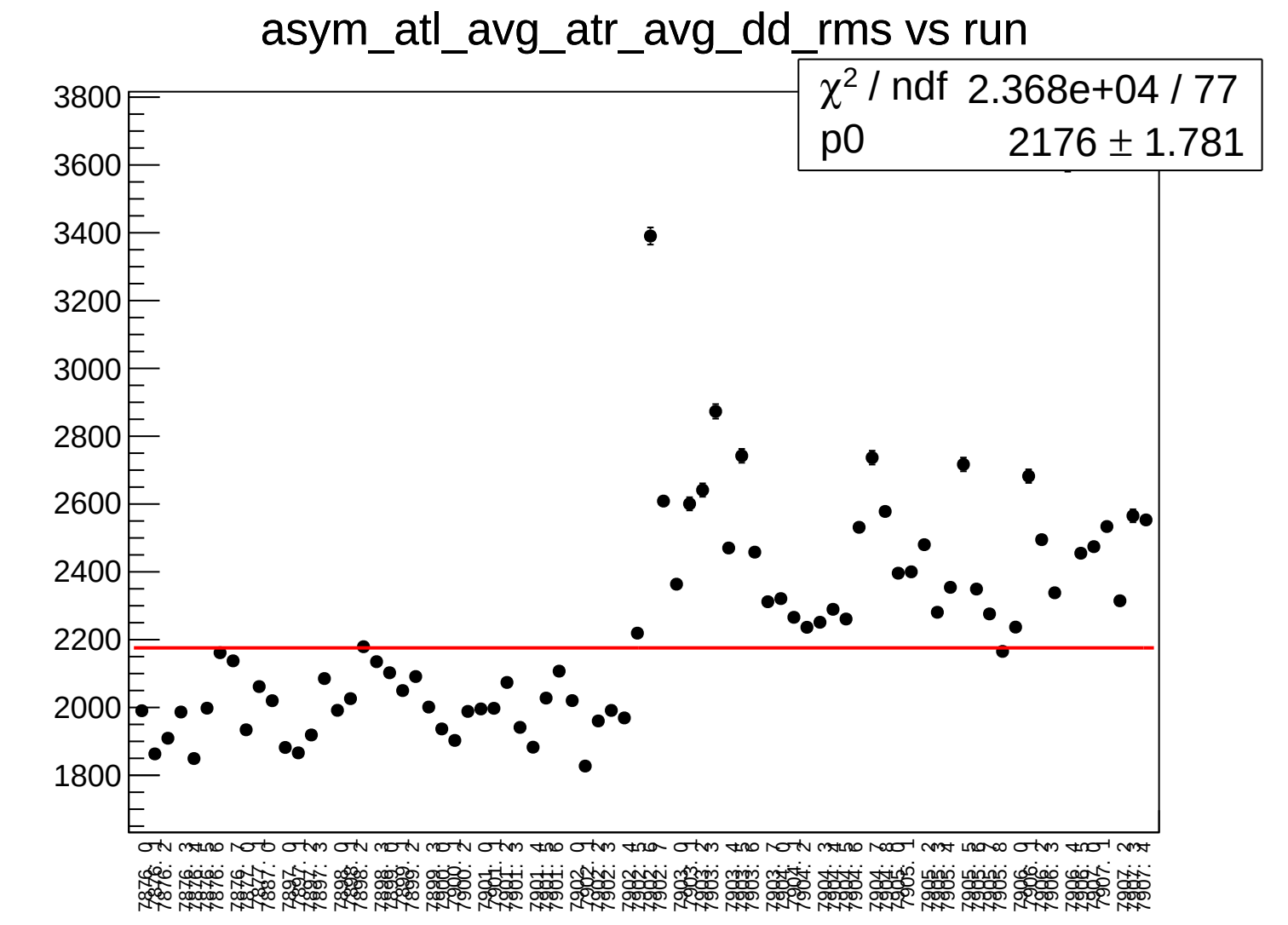

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 65.17 / 77
p0 −2529 ± 1976
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean −20.98
Std Dev 82.93
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

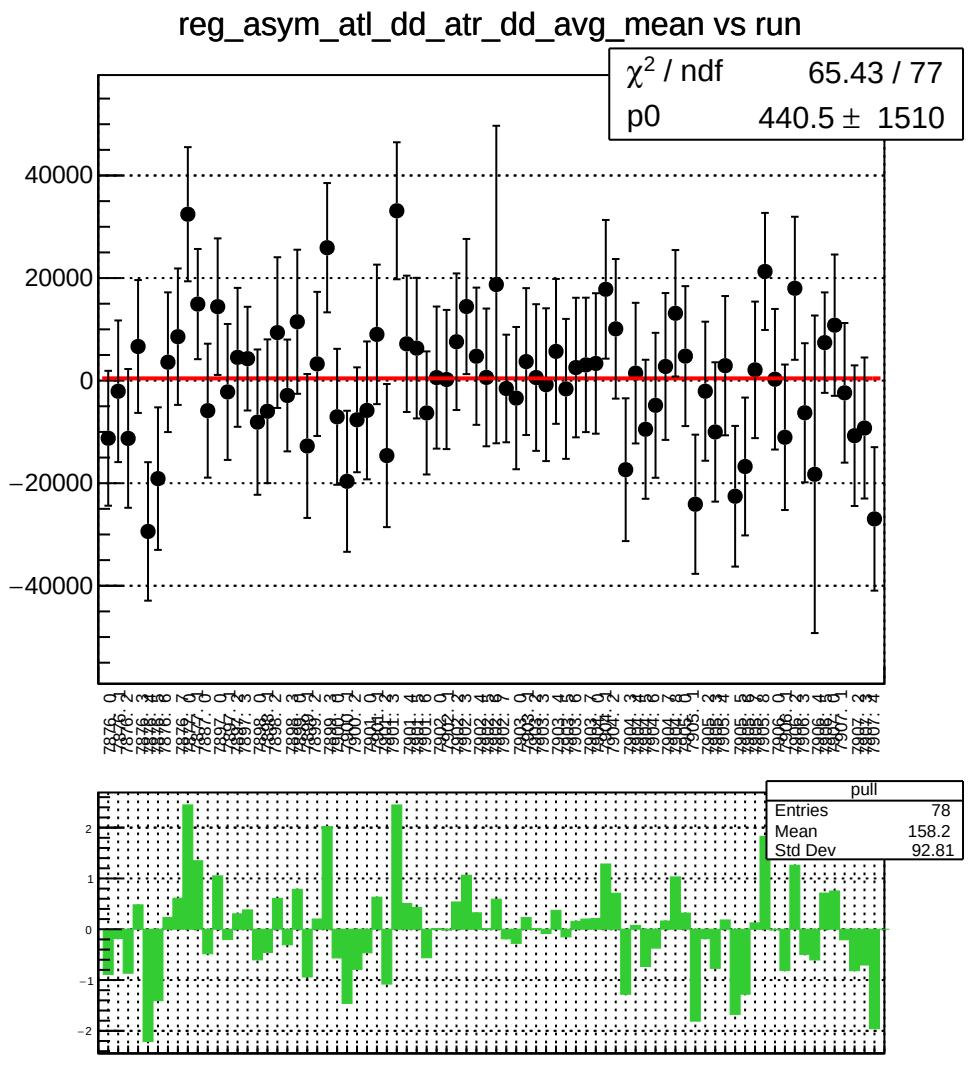

pull1D
Entries 78
Mean −0.01006
Std Dev 0.914
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

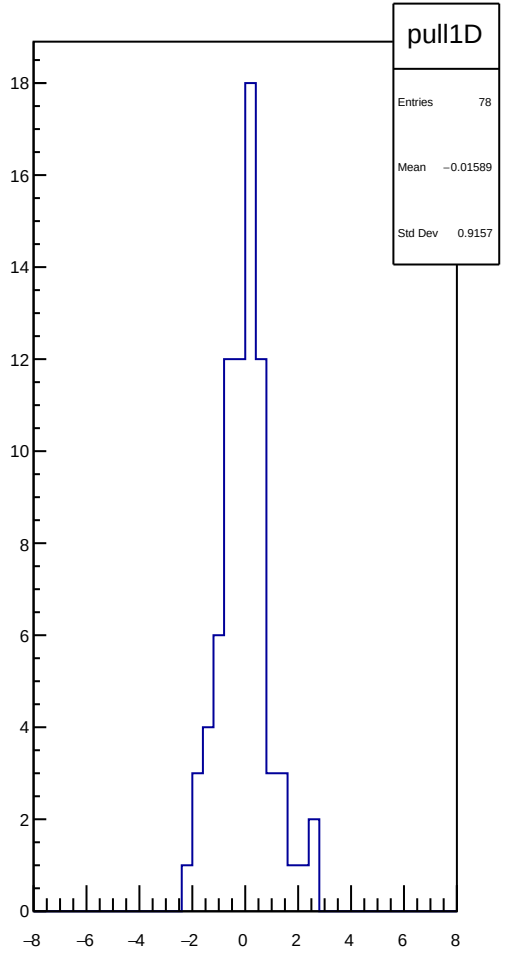

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 4.222e+04 / 77
p0 1697 ± 1.398
2600
2400
2200
2000
1800
1600
1400
1200

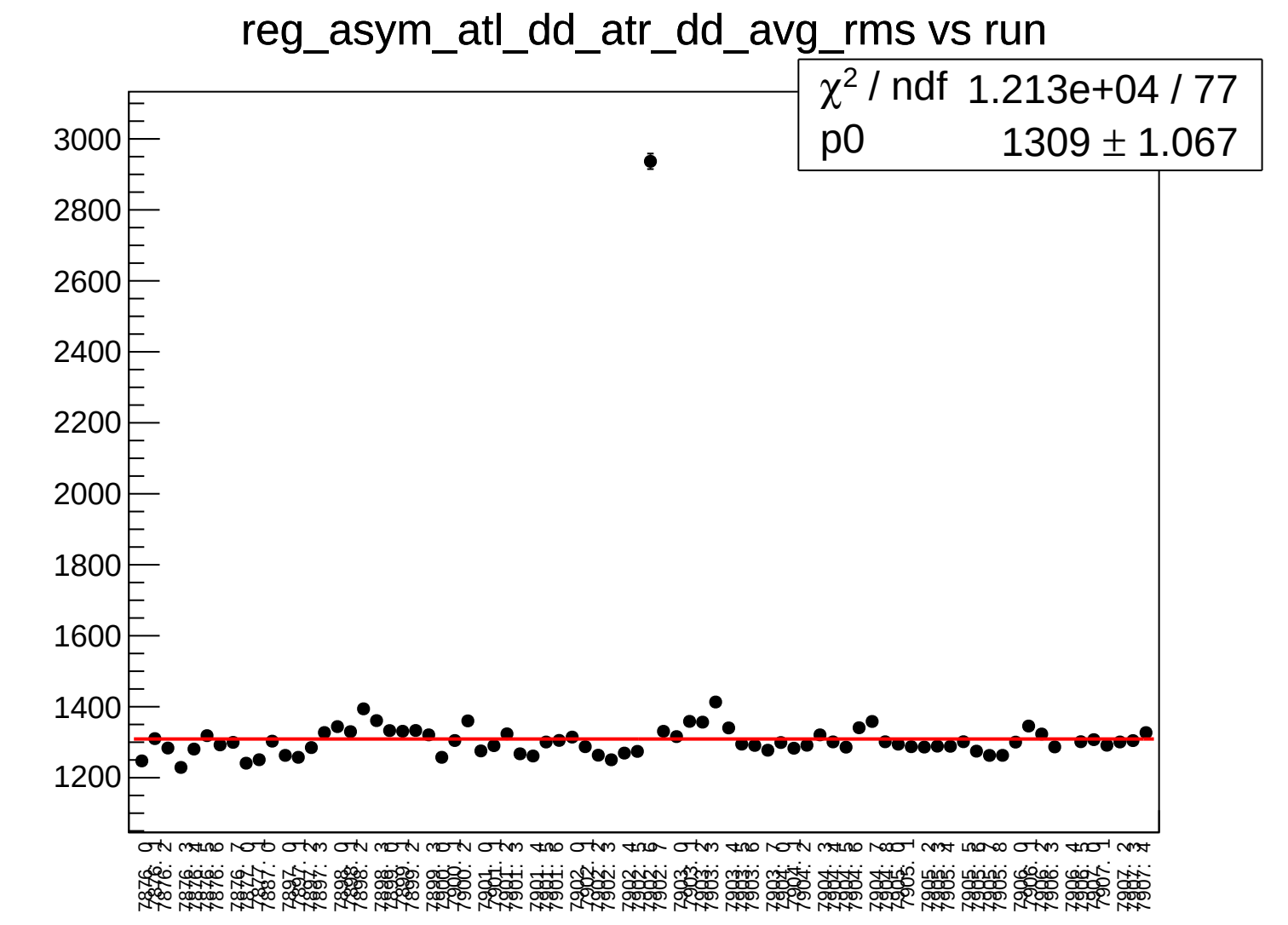

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 83.94 / 77
p0 3389 ± 2519
pull
Entries 78
Mean −380.7
Std Dev 425.4

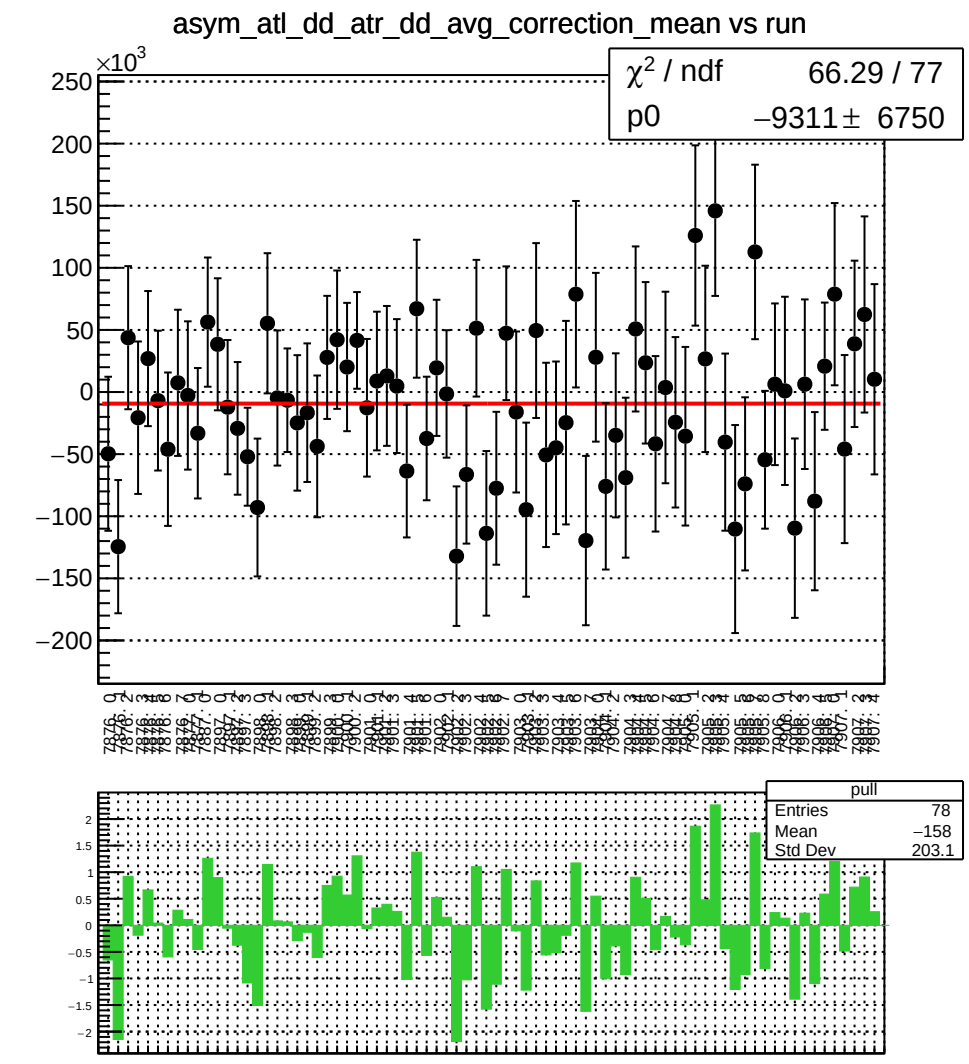

pull1D
Entries 78
Mean 0.005581
Std Dev 1.037

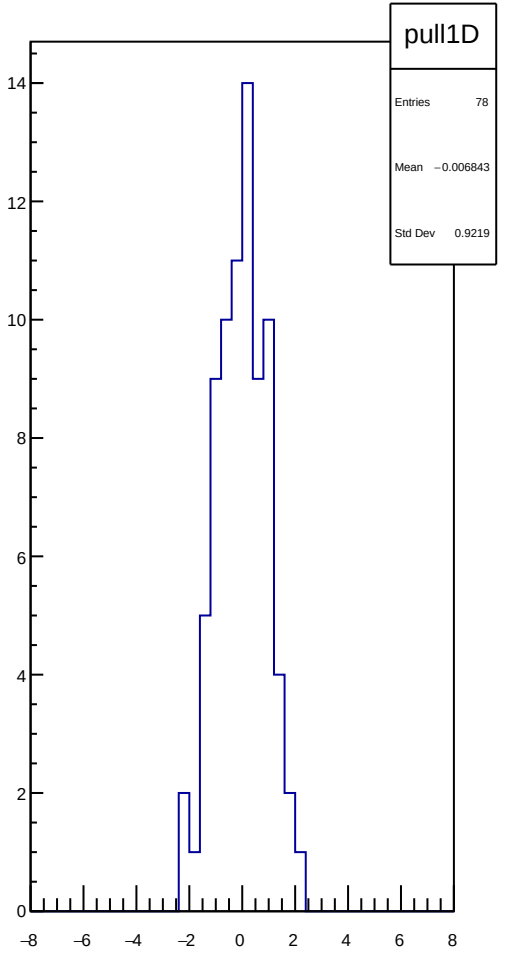

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2.368e+04 / 77
p0 2176 ± 1.781
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

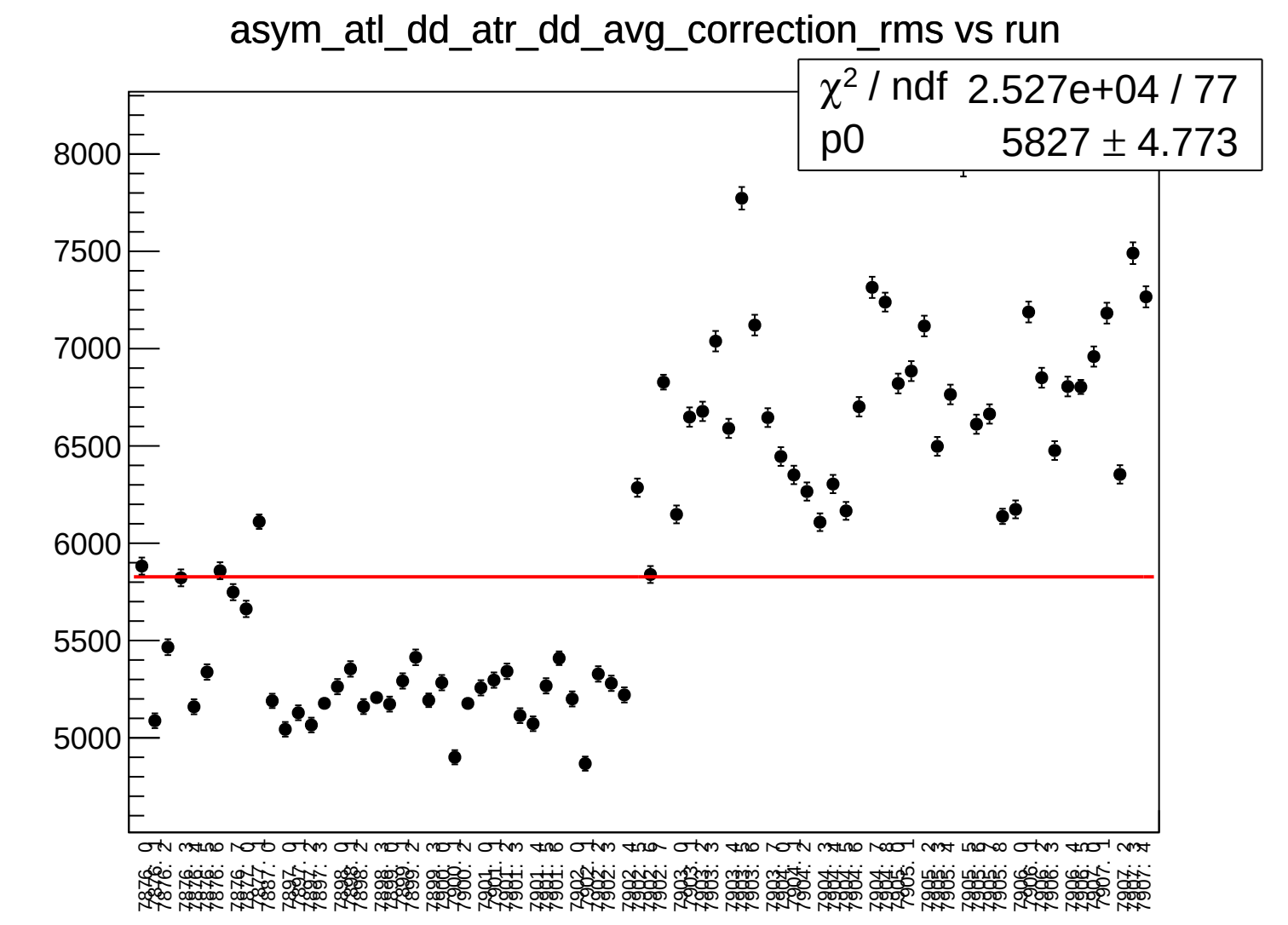

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 65.43 / 77
p0 440.5 ± 1510
40000
20000
0
−20000
−40000
pull
Entries 78
Mean 158.2
Std Dev 92.81
2
1
0
−1
−2

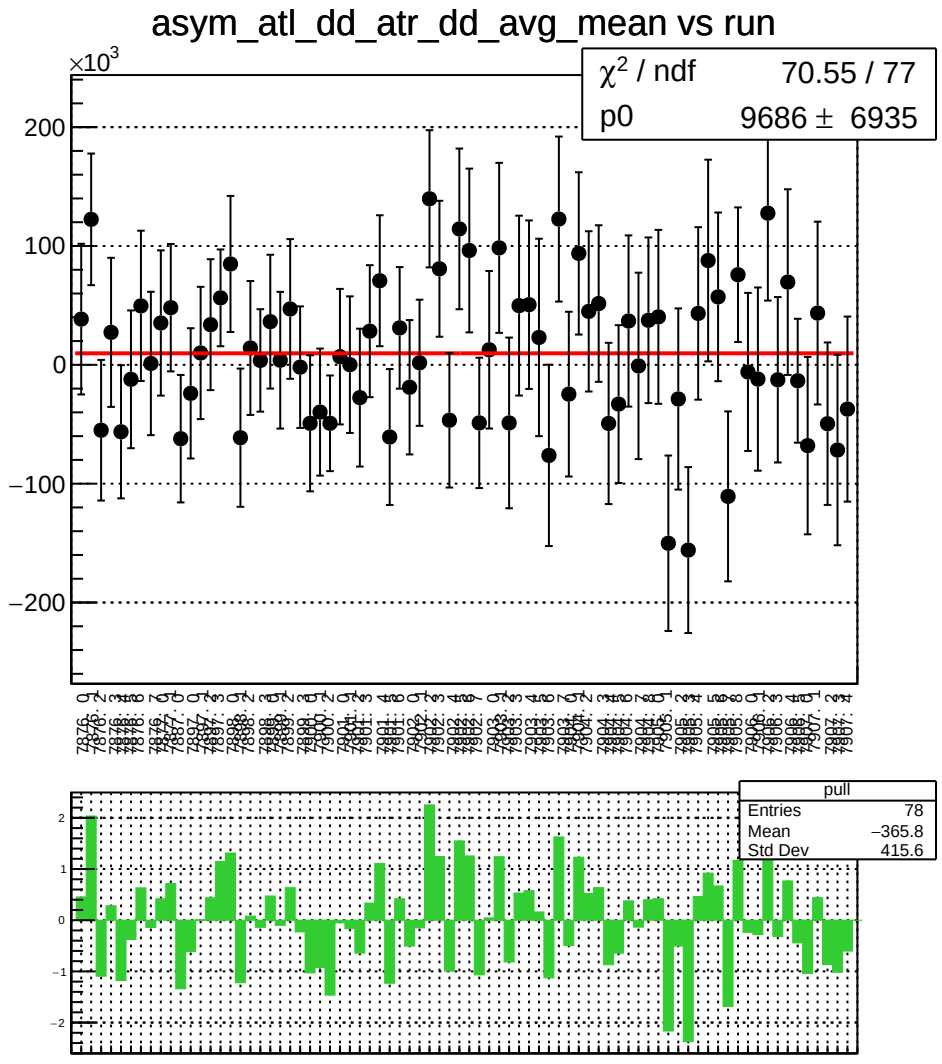

pull1D
Entries 78
Mean −0.01589
Std Dev 0.9157
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

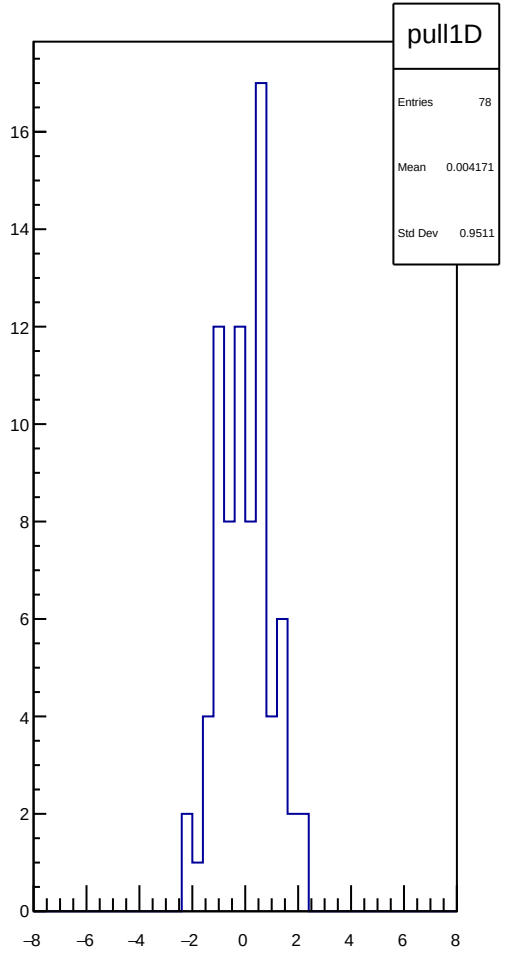

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 1.213e+04 / 77
p0 1309 ± 1.067
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

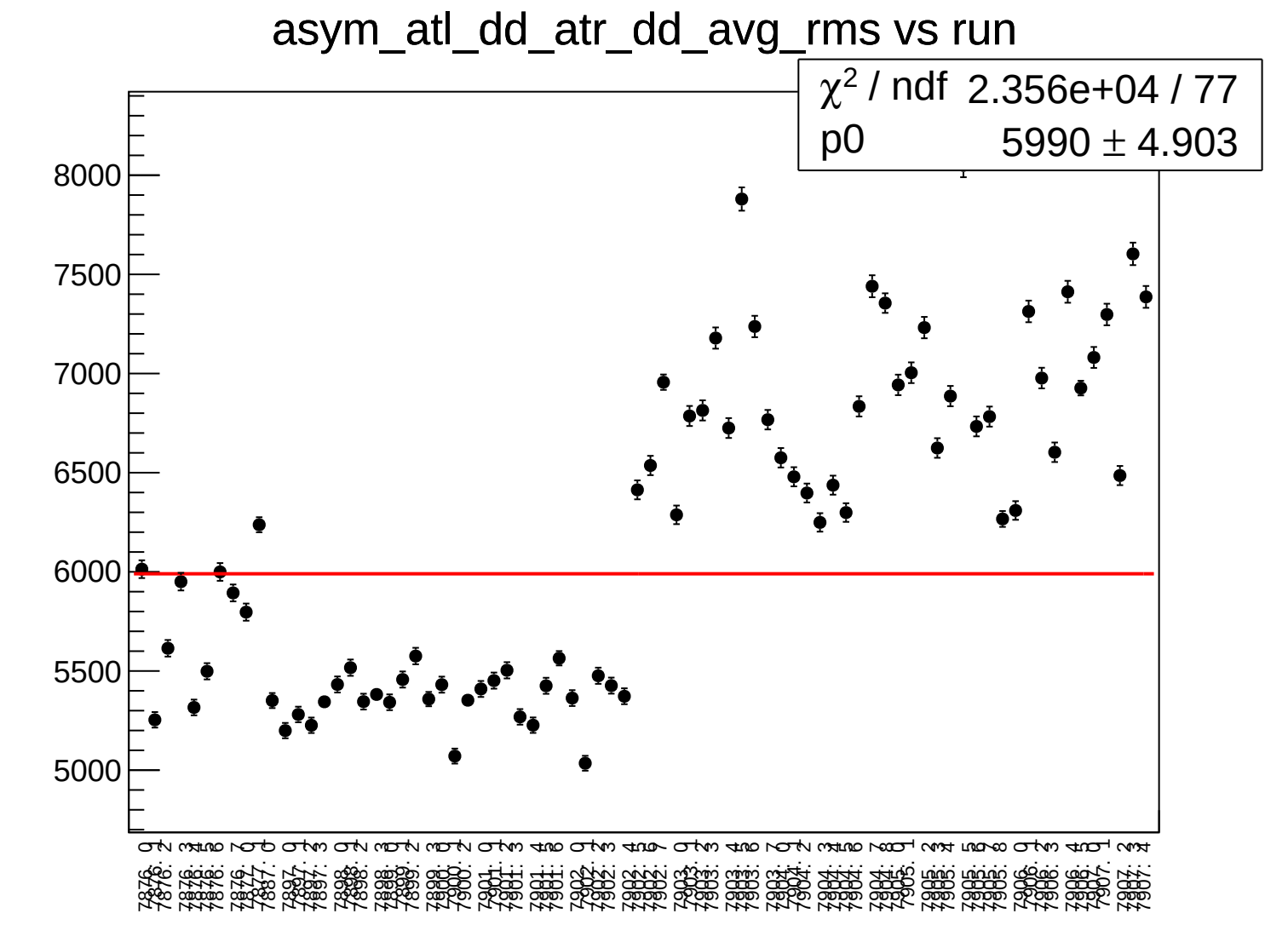

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 66.29 / 77
p0 −9311 ± 6750
×10³
pull
Entries 78
Mean −158
Std Dev 203.1

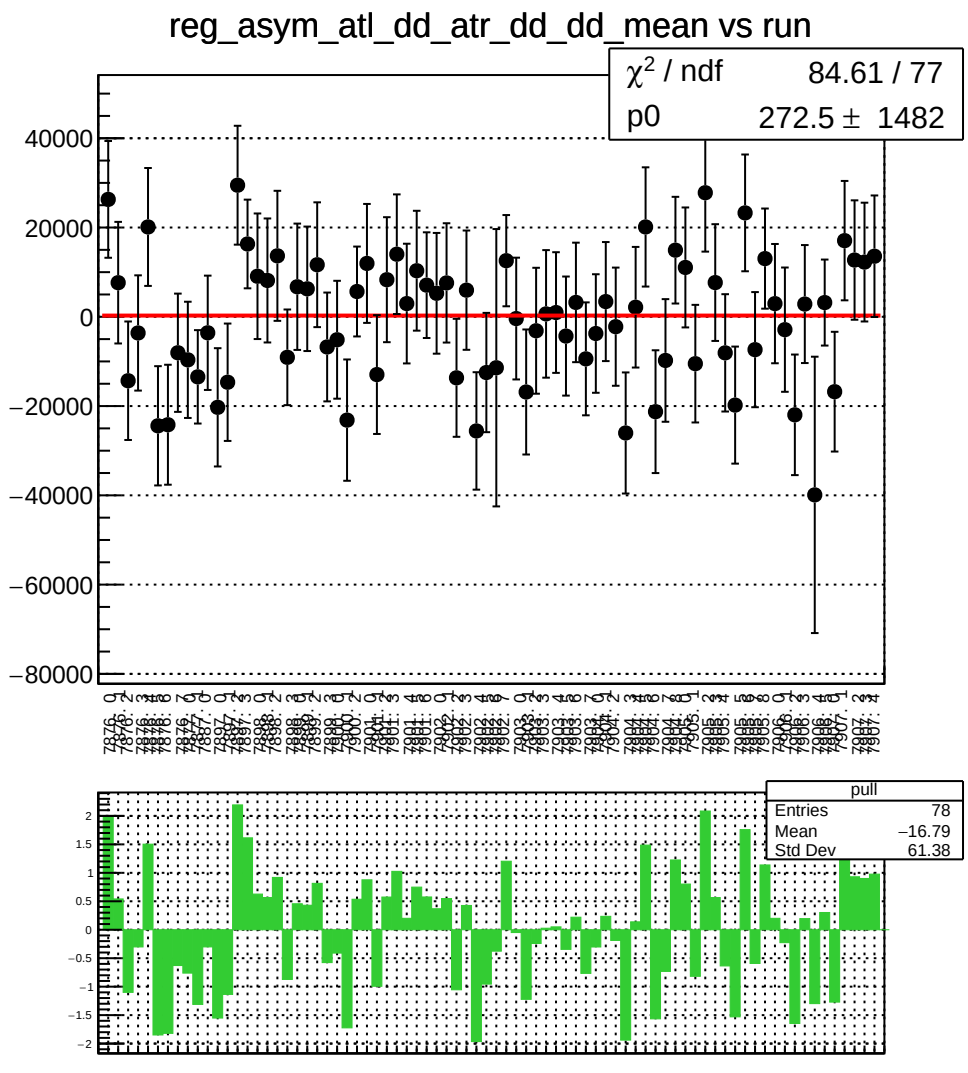

pull1D
Entries 78
Mean −0.006843
Std Dev 0.9219

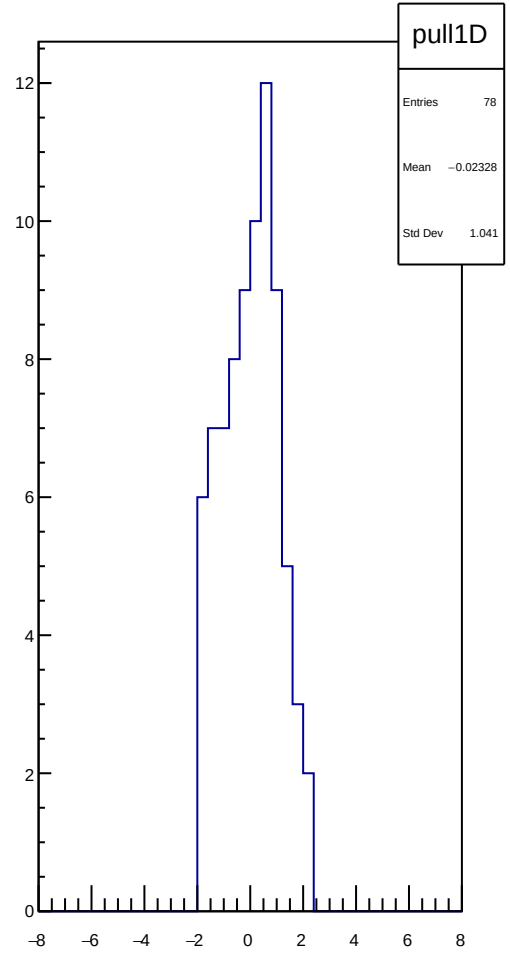

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 2.527e+04 / 77
p0 5827 ± 4.773
8000
7500
7000
6500
6000
5500
5000

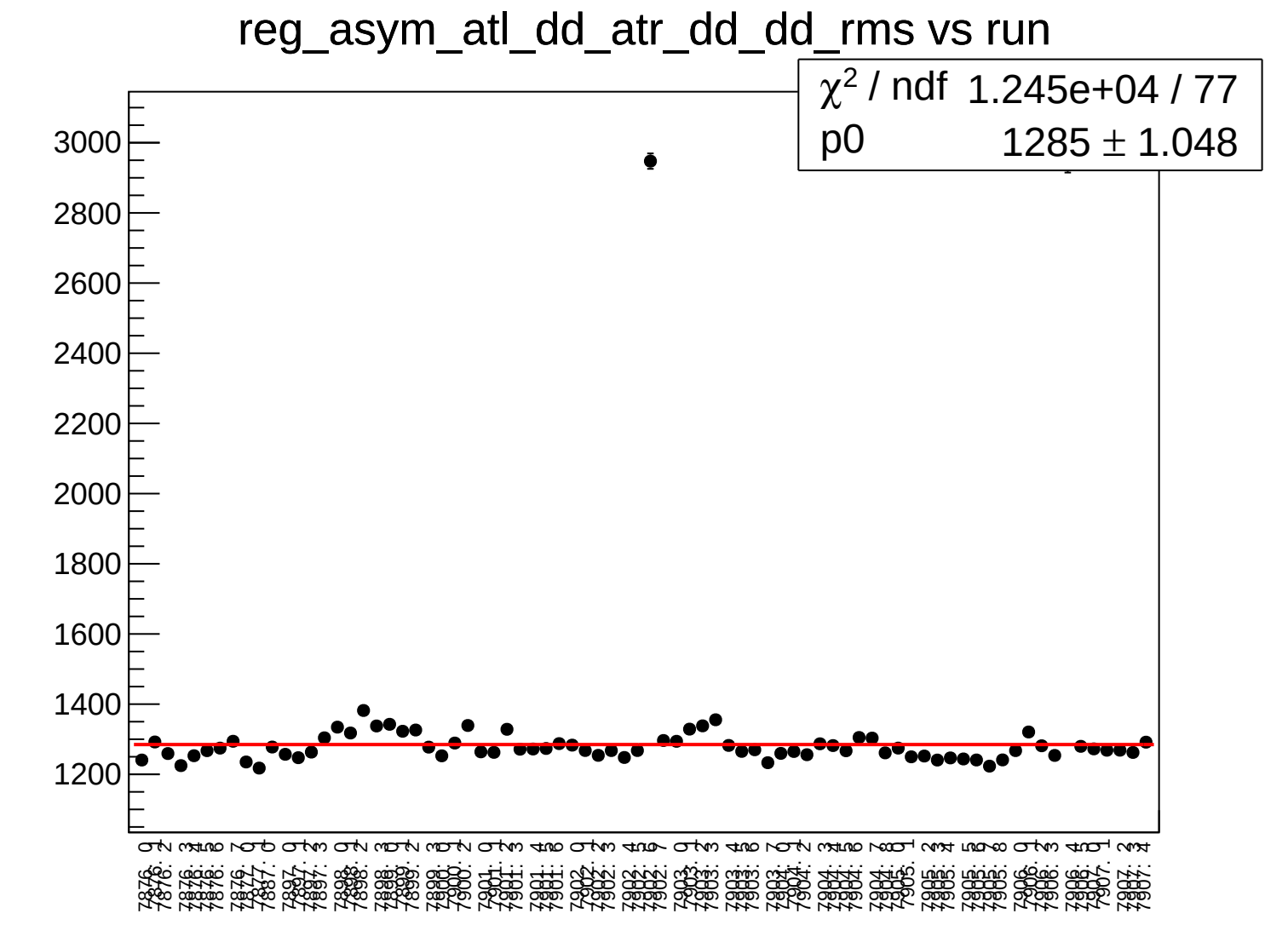

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 70.55 / 77
p0 9686 ± 6935
200
100
0
−100
−200
pull
Entries 78
Mean −365.8
Std Dev 415.6
2
1
0
−1
−2

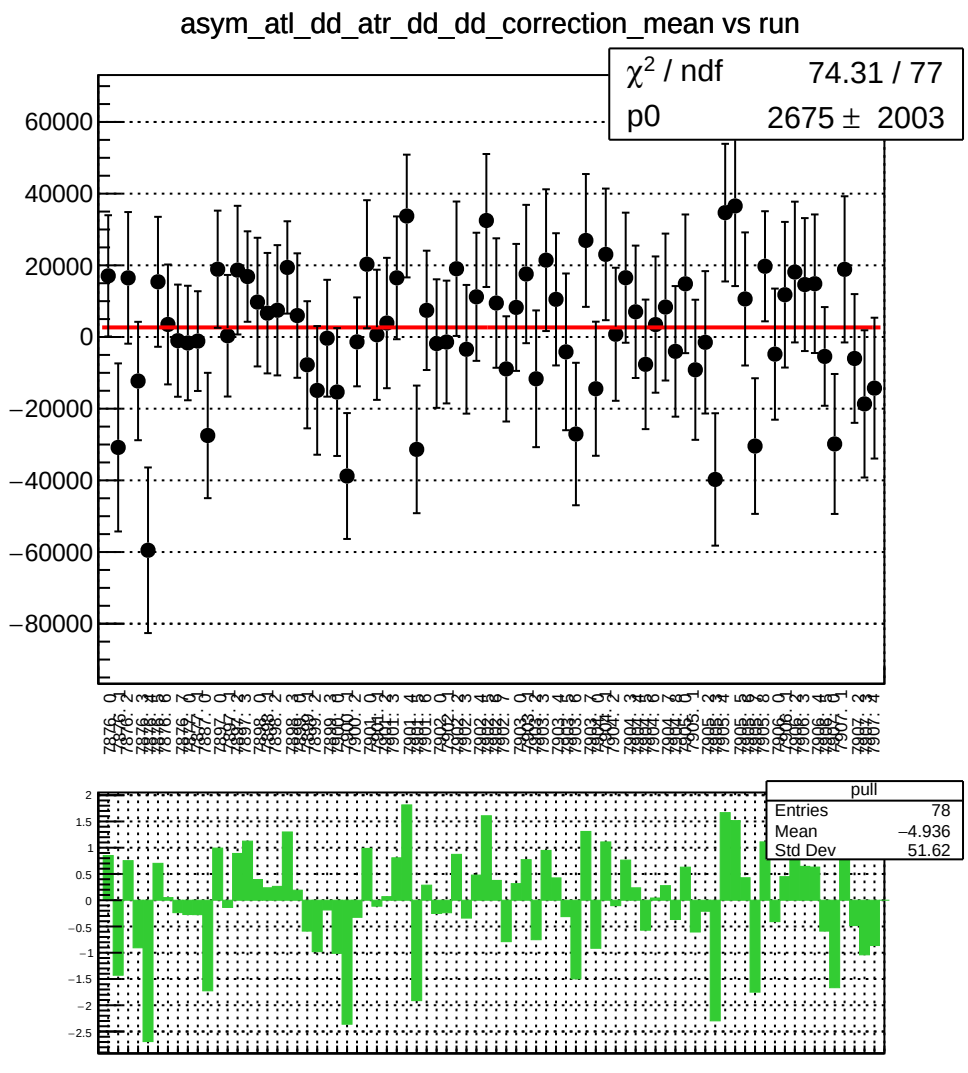

pull1D
Entries 78
Mean 0.004171
Std Dev 0.9511
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

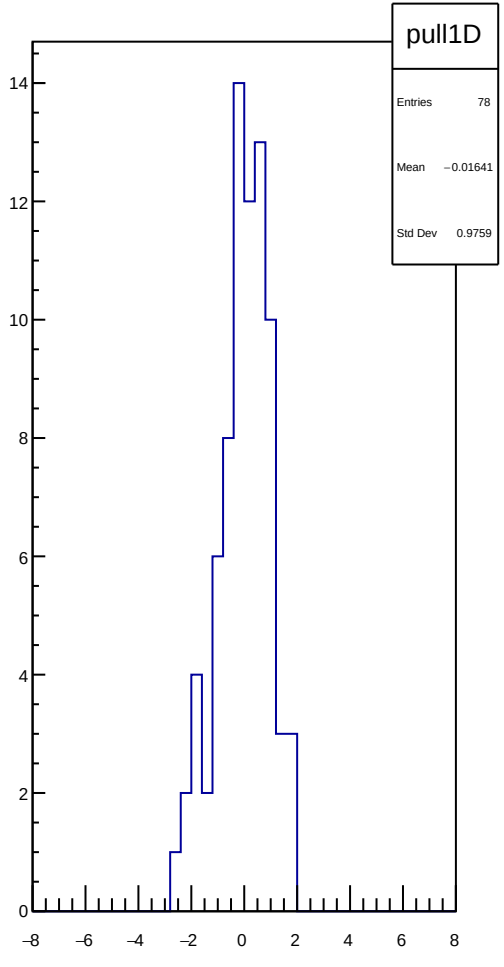

asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 2.356e+04 / 77
p0 5990 ± 4.903
8000
7500
7000
6500
6000
5500
5000

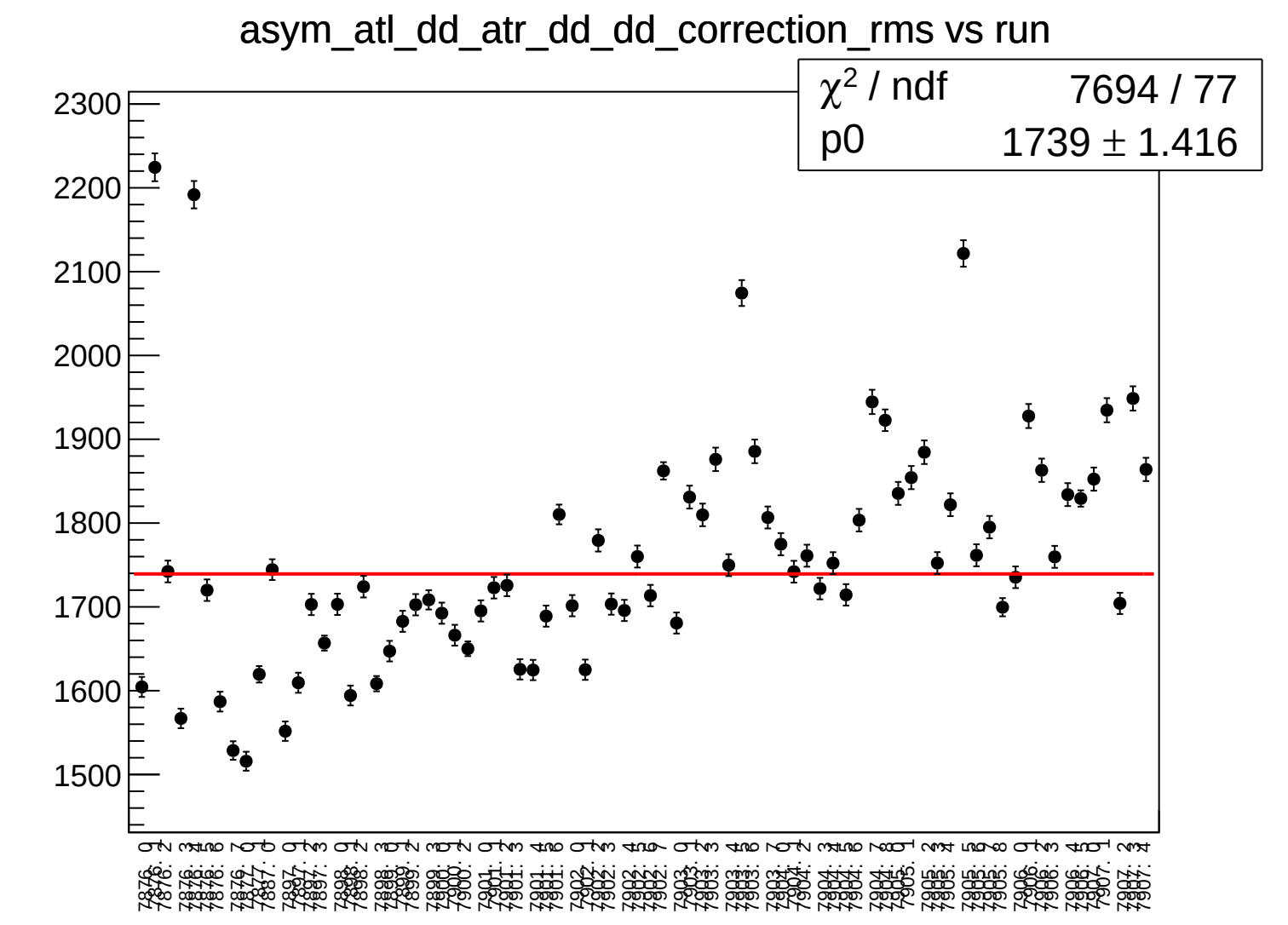

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.61 / 77
p0 272.5 ± 1482
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 78
Mean −16.79
Std Dev 61.38
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

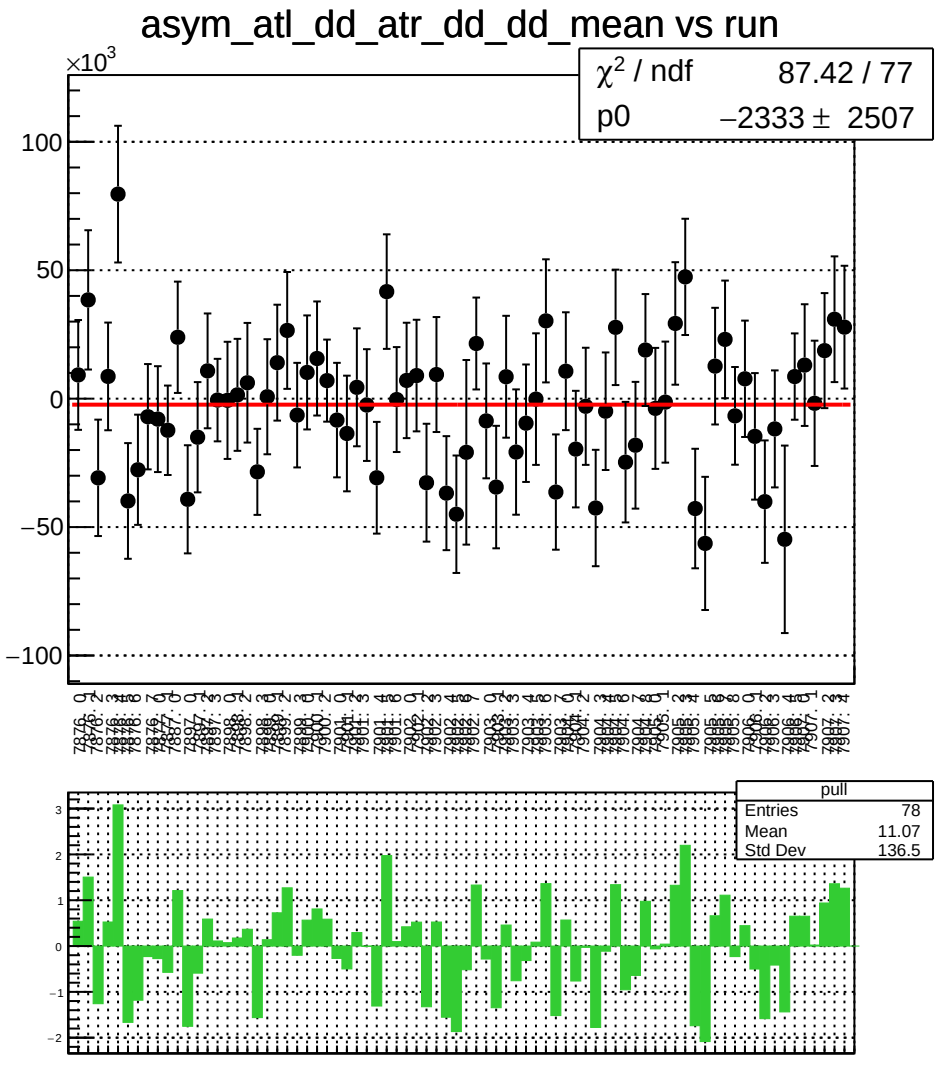

pull1D
Entries 78
Mean −0.02328
Std Dev 1.041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

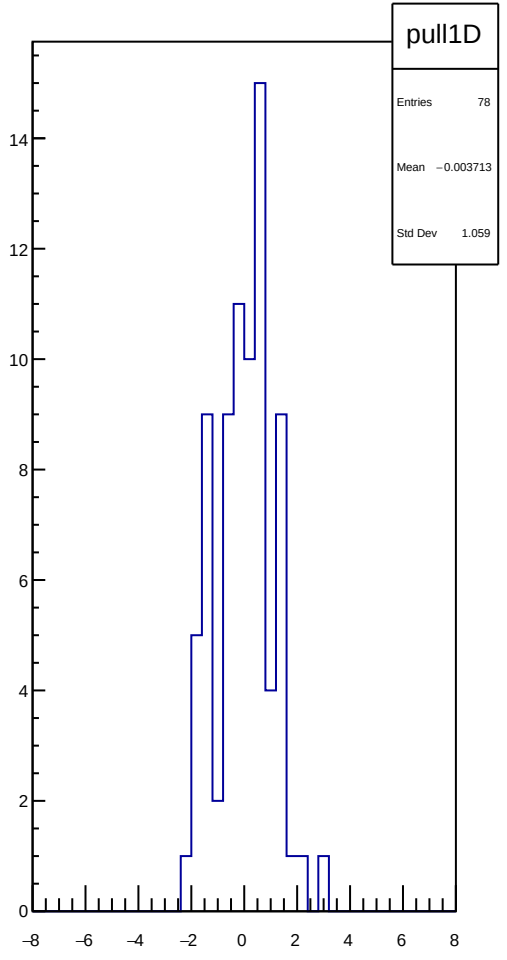

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.245e+04 / 77
p0 1285 ± 1.048
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

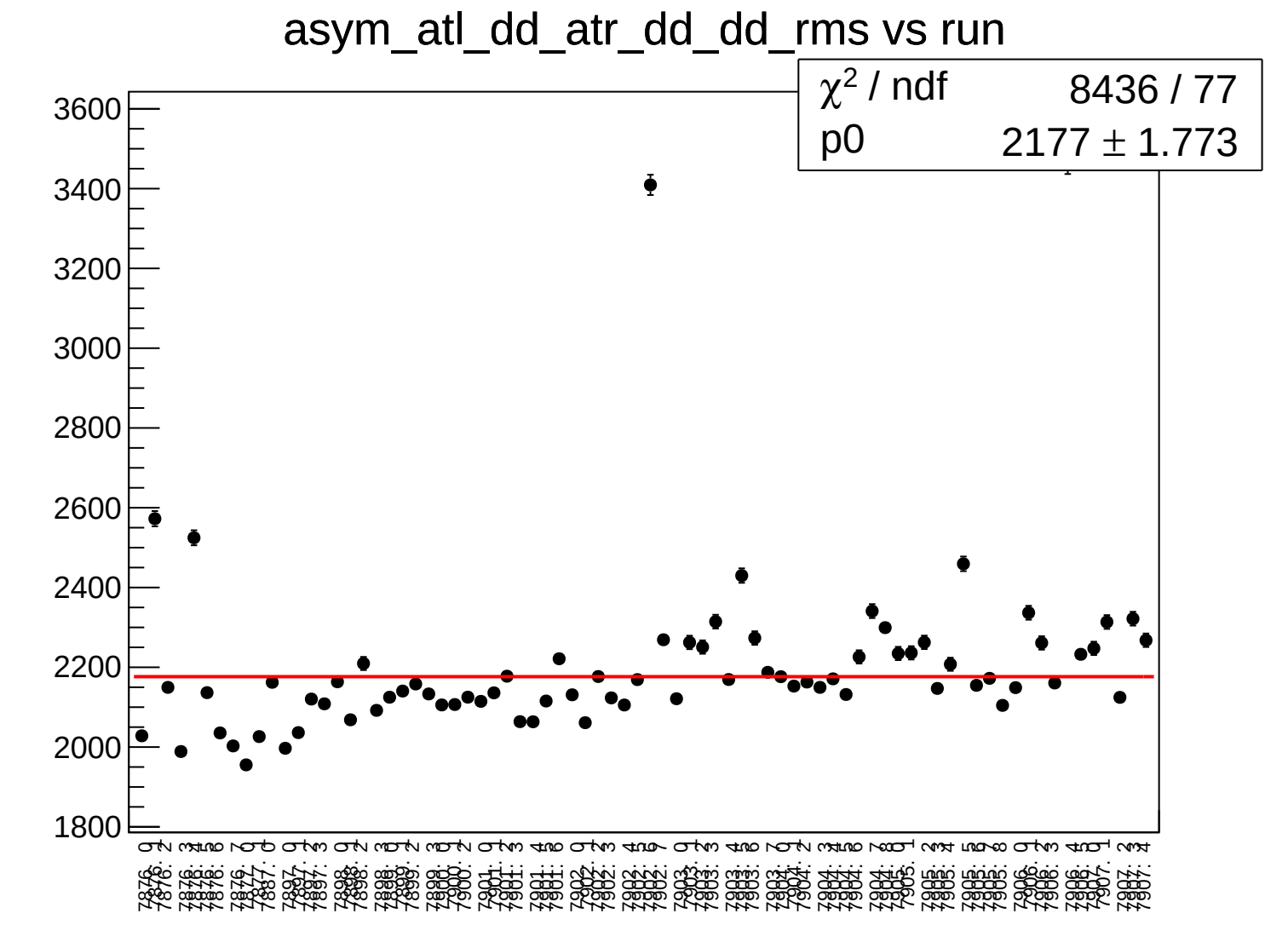

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 74.31 / 77
p0 2675 ± 2003
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 78
Mean −4.936
Std Dev 51.62
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

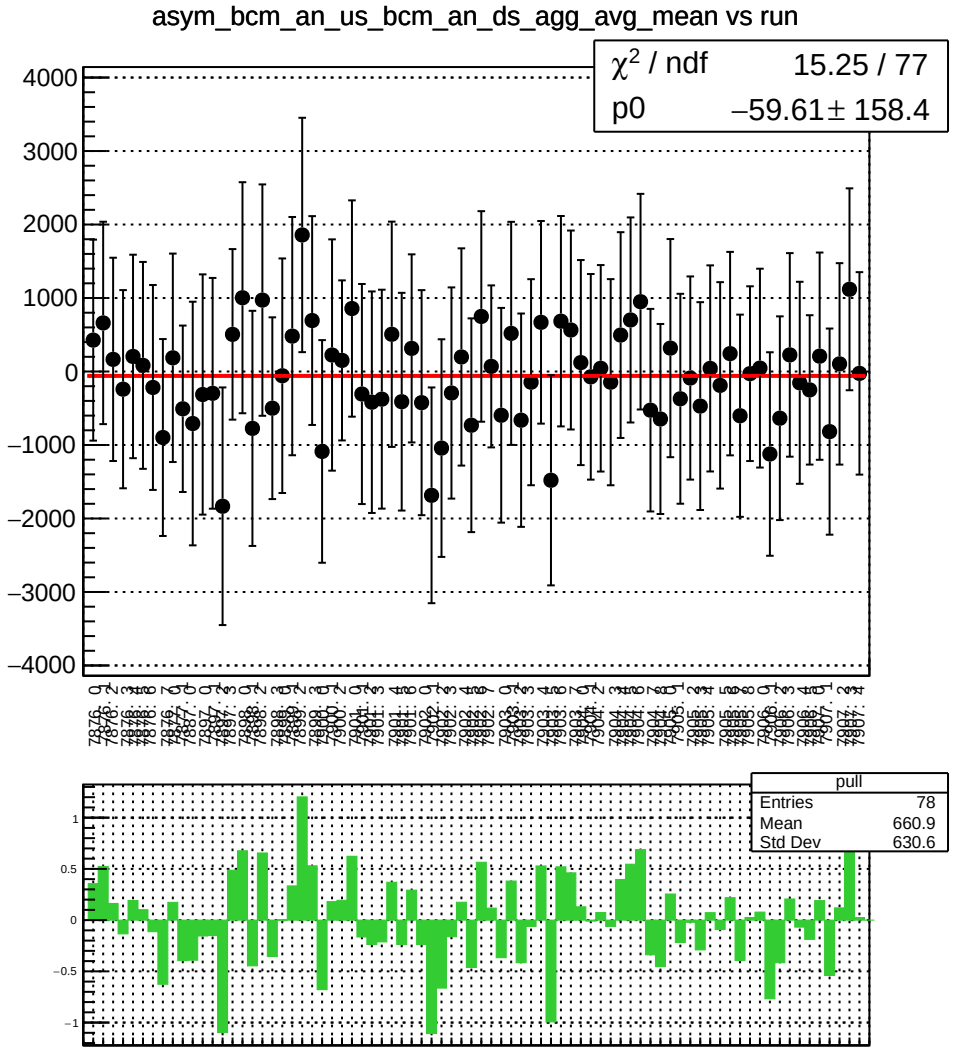

pull1D
Entries 78
Mean −0.01641
Std Dev 0.9759
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

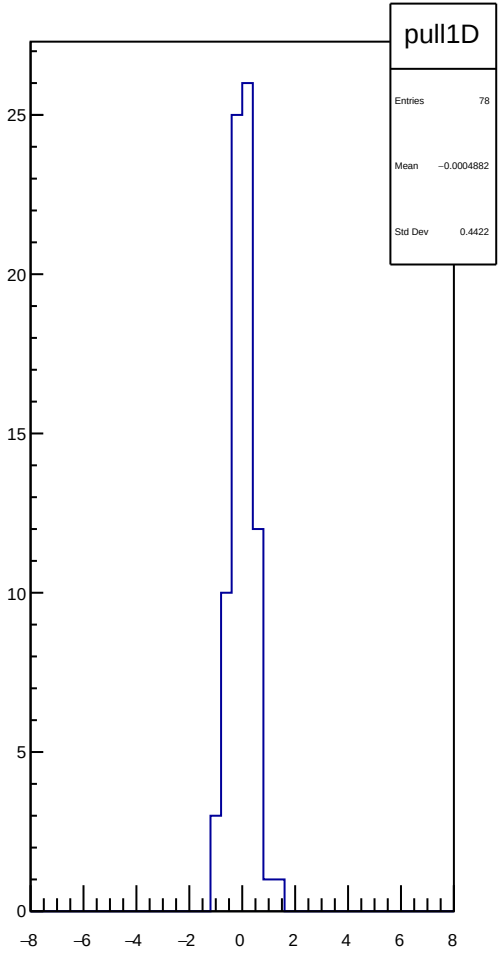

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ^2 / ndf 7694 / 77
p0 1739 ± 1.416
2300
2200
2100
2000
1900
1800
1700
1600
1500

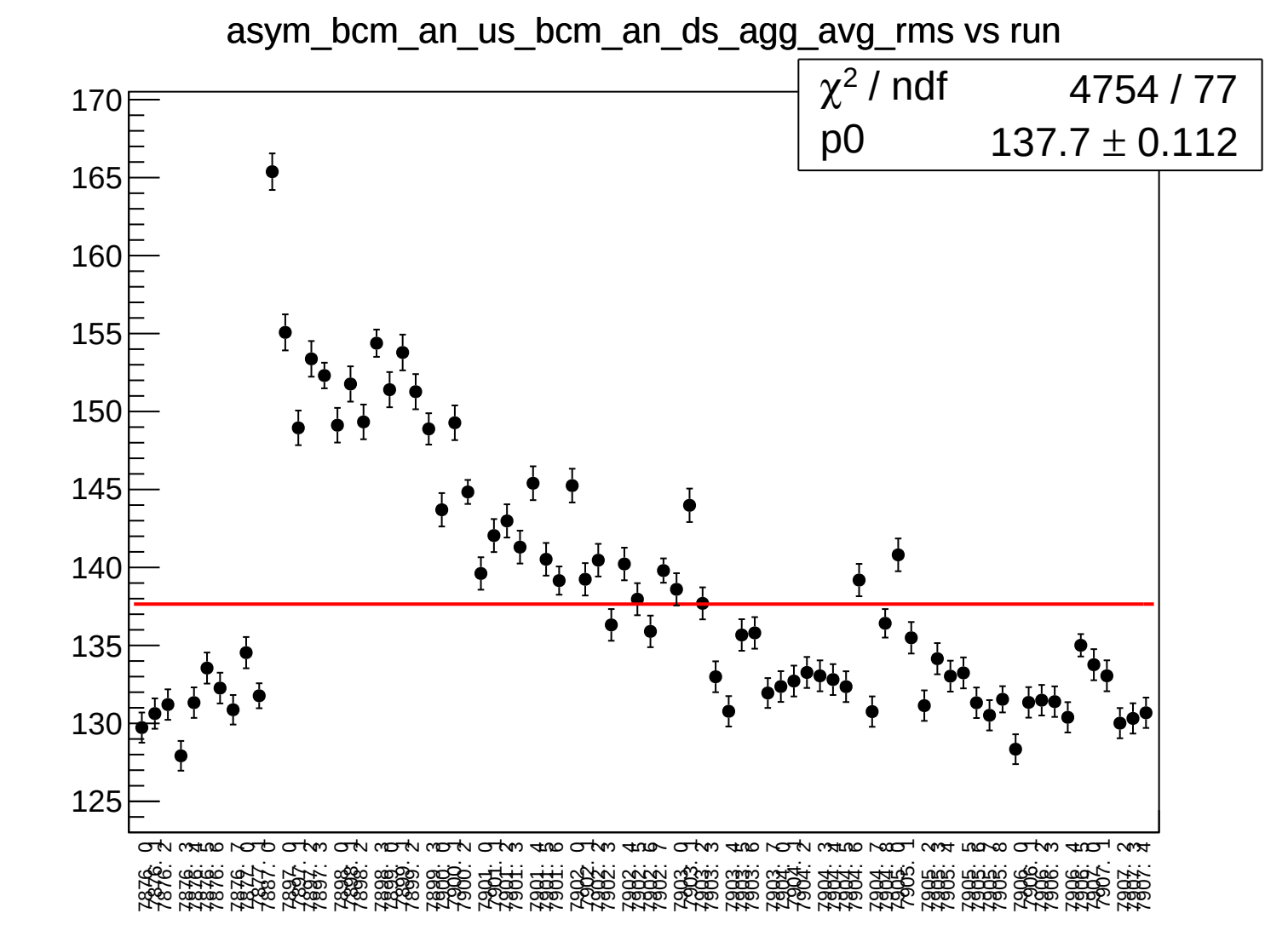

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 87.42 / 77
p0 −2333 ± 2507
100
50
0
−50
−100
pull
Entries 78
Mean 11.07
Std Dev 136.5
3
2
1
0
−1
−2

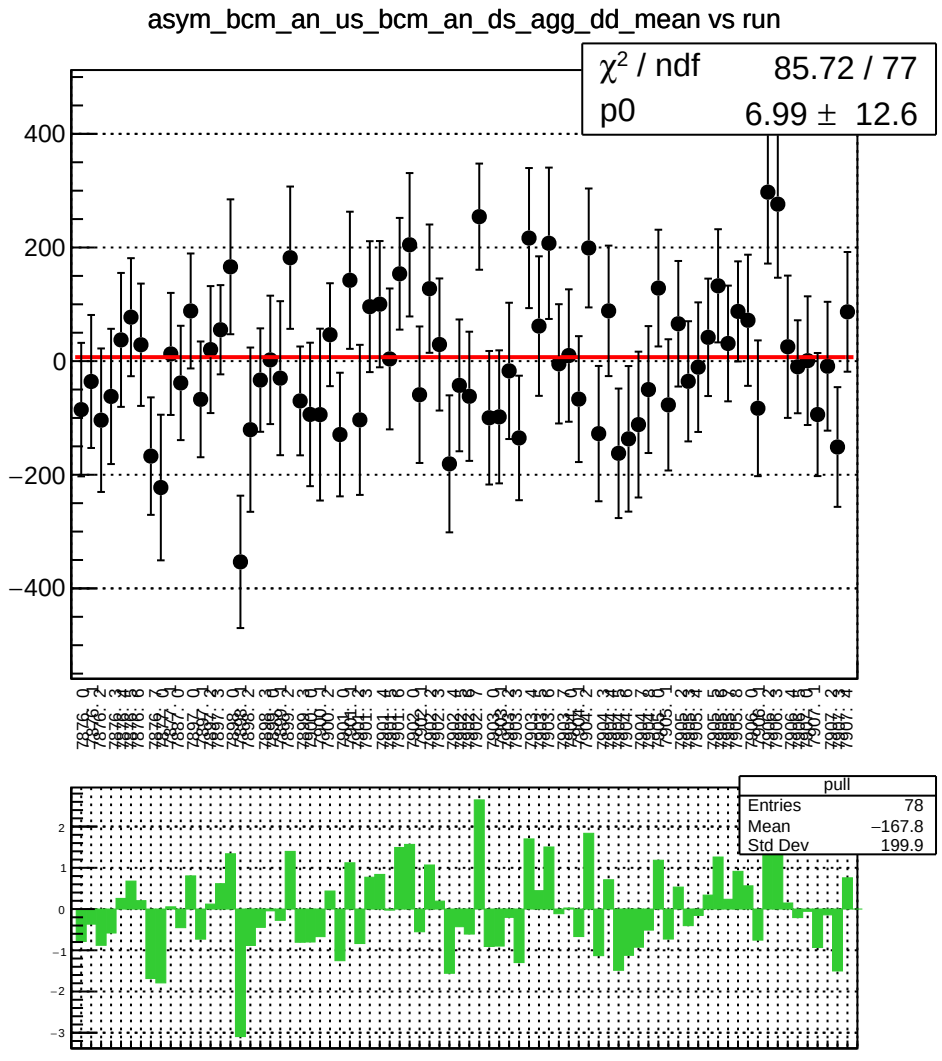

pull1D
Entries 78
Mean −0.003713
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

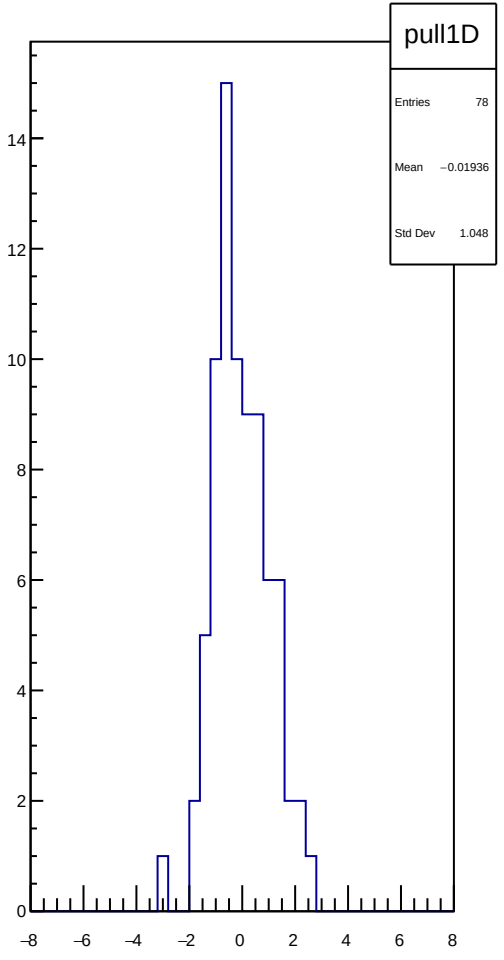

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 8436 / 77
p0 2177 ± 1.773
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

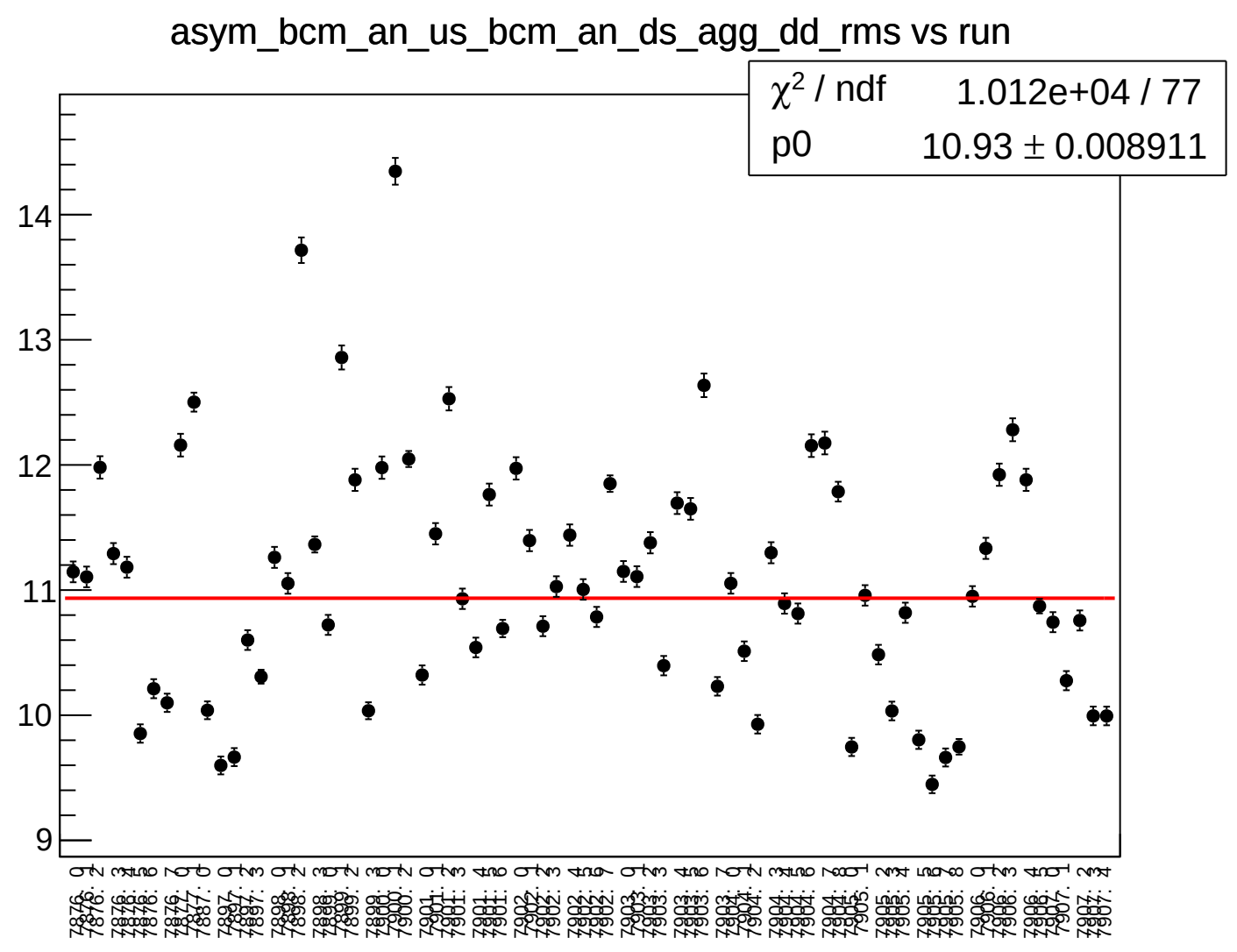

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.25 / 77
p0 −59.61 ± 158.4
pull
Entries 78
Mean 660.9
Std Dev 630.6

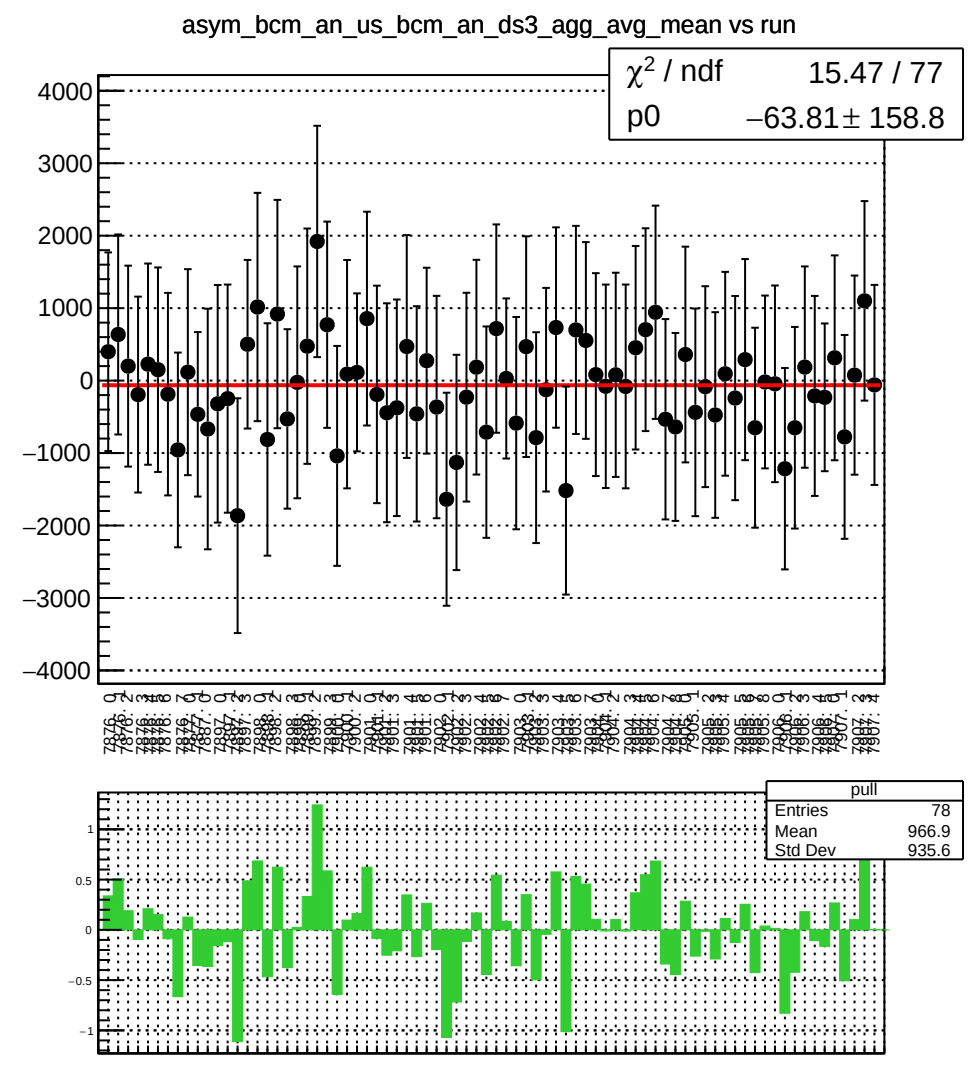

pull1D
Entries 78
Mean −0.0004882
Std Dev 0.4422

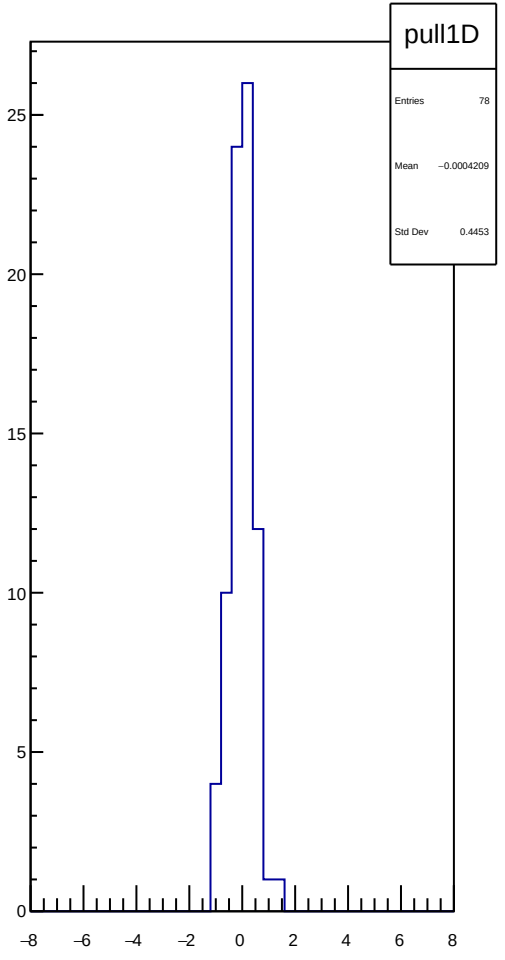

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4754 / 77
p0 137.7 ± 0.112
170
165
160
155
150
145
140
135
130
125

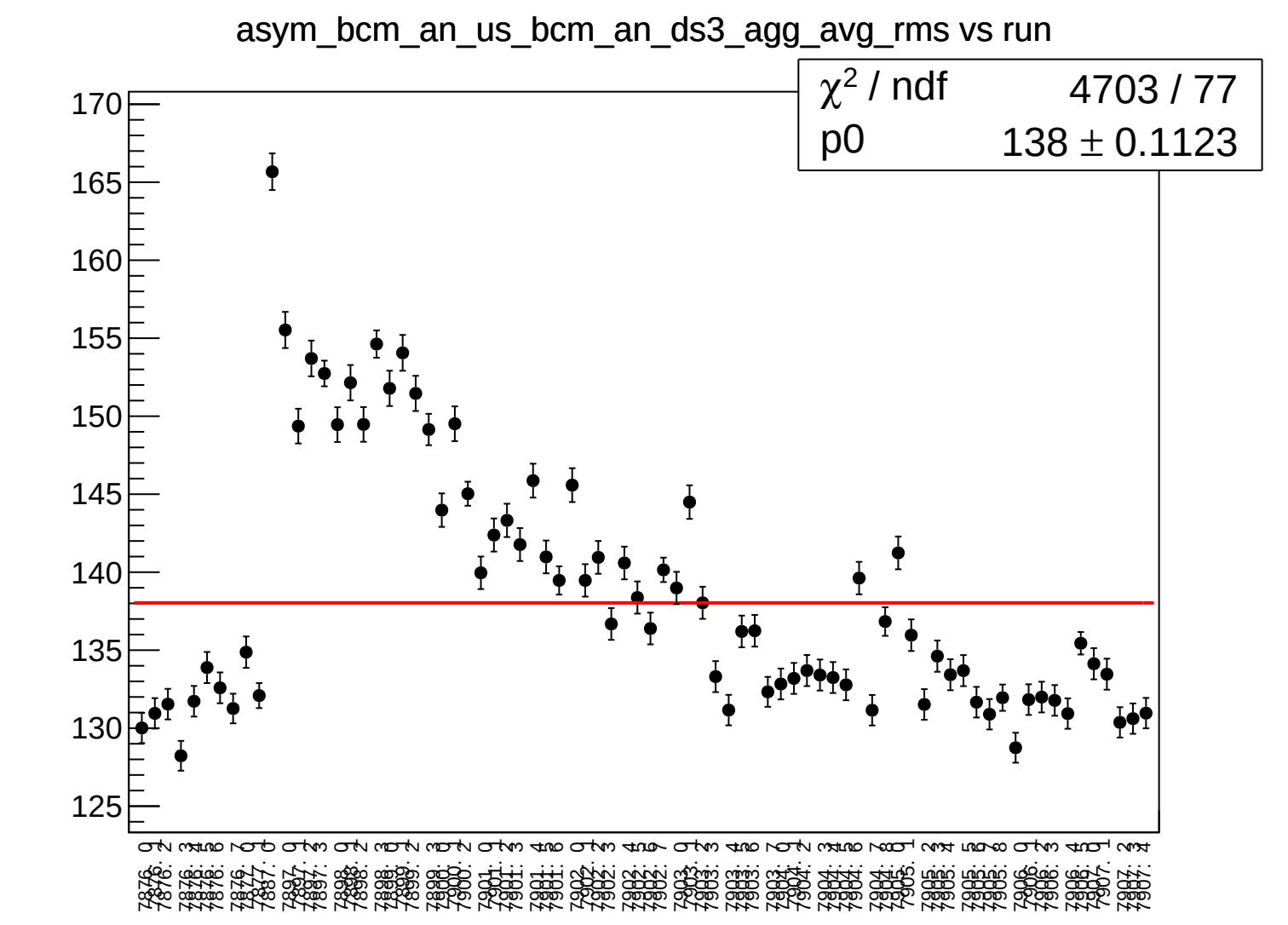

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 85.72 / 77
p0 6.99 ± 12.6
400
200
0
−200
−400
pull
Entries 78
Mean −167.8
Std Dev 199.9
2
1
0
−1
−2
−3

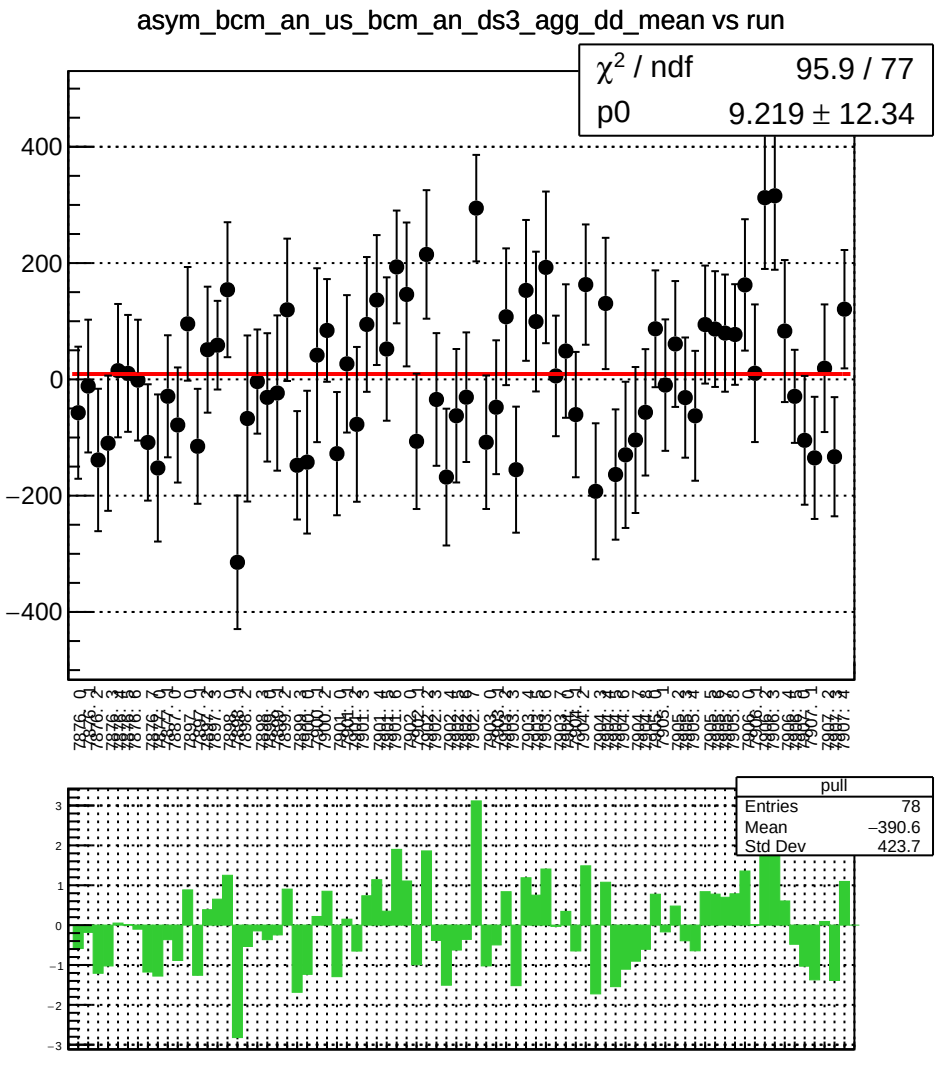

pull1D
Entries 78
Mean −0.01936
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

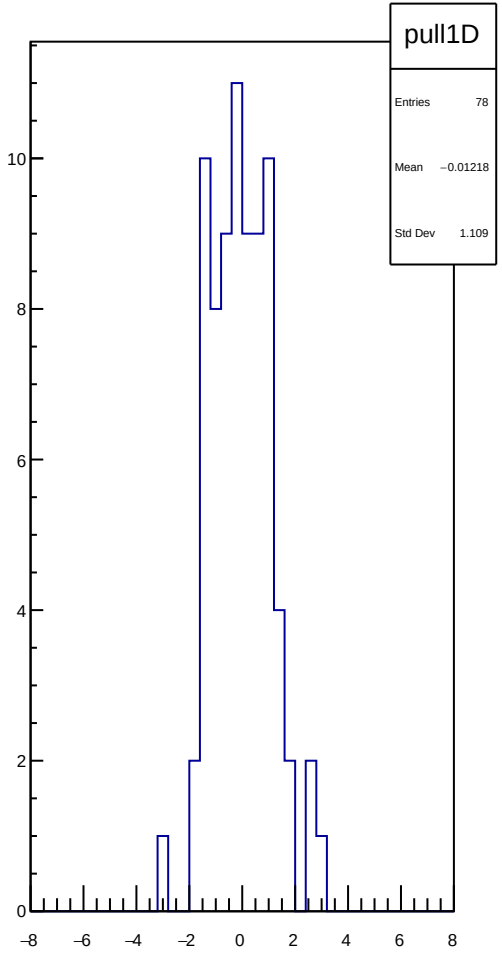

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.012e+04 / 77
p0 10.93 ± 0.008911
14
13
12
11
10
9

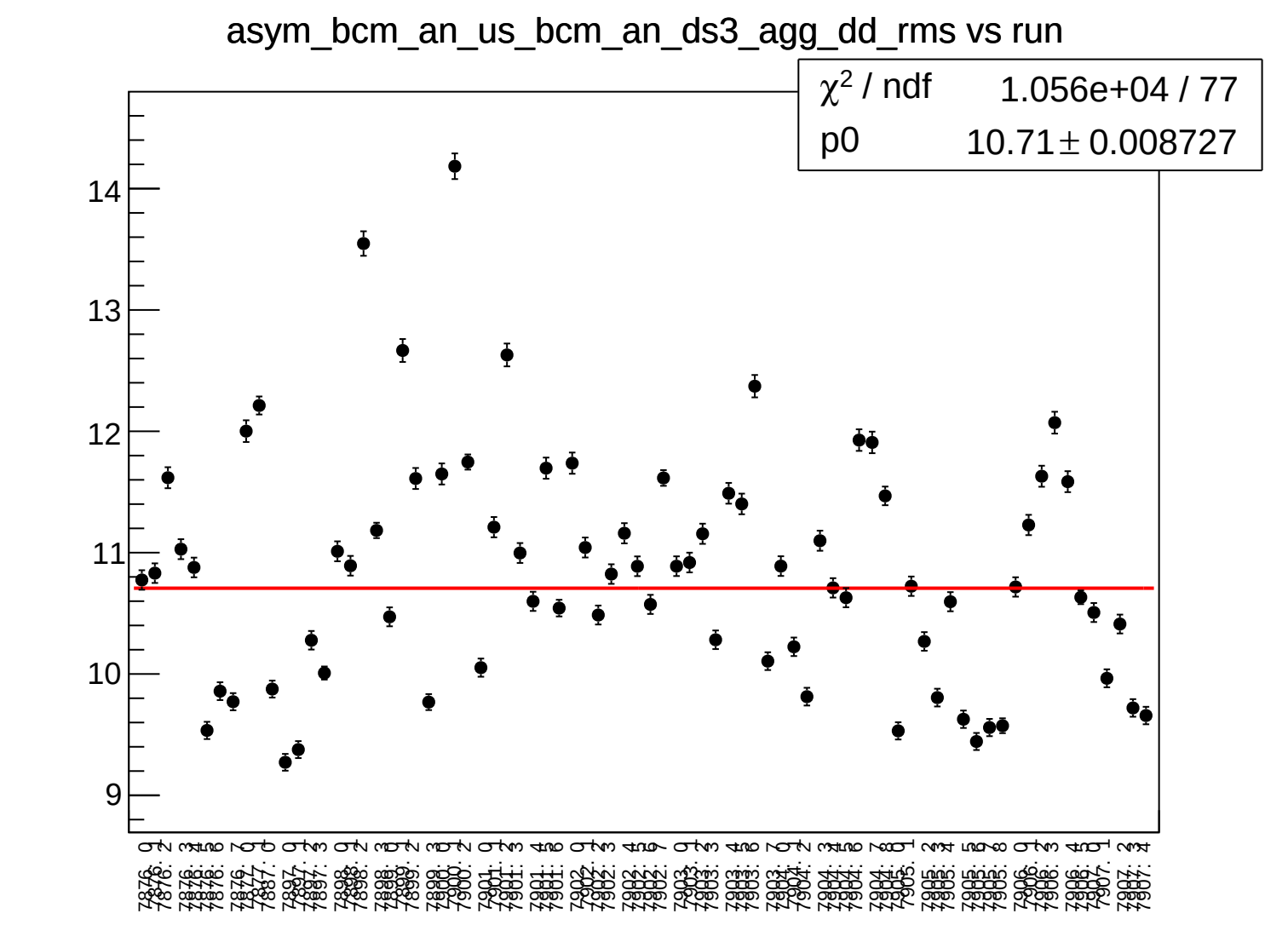

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 15.47 / 77
p0 −63.81 ± 158.8
pull
Entries 78
Mean 966.9
Std Dev 935.6

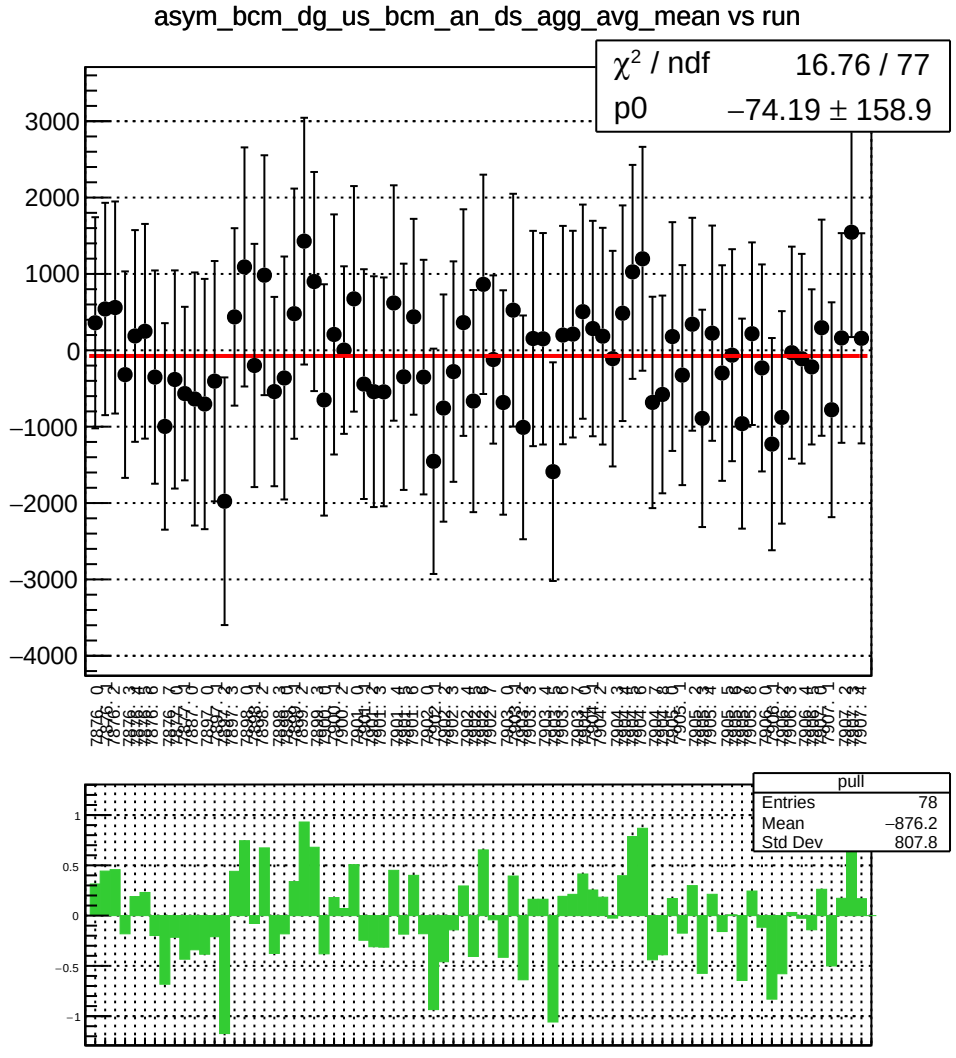

pull1D
Entries 78
Mean −0.0004209
Std Dev 0.4453

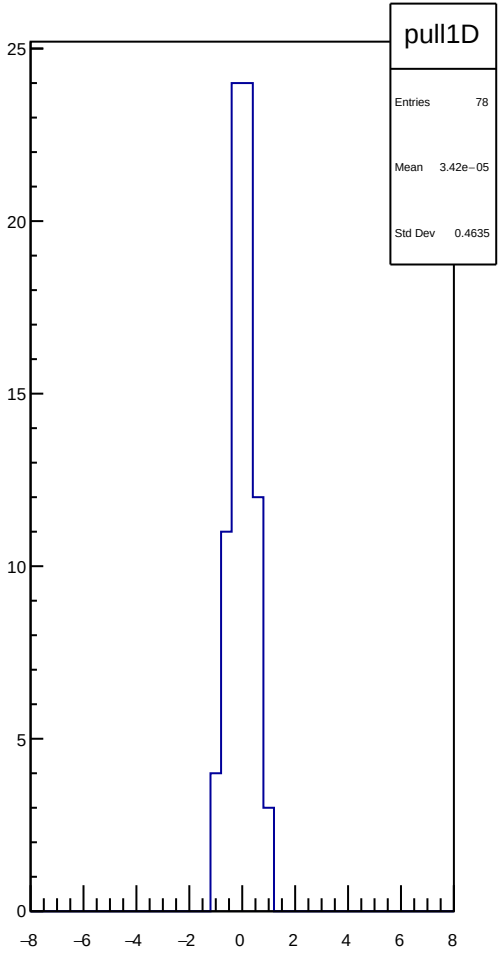

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 4703 / 77
p0 138 ± 0.1123
170
165
160
155
150
145
140
135
130
125

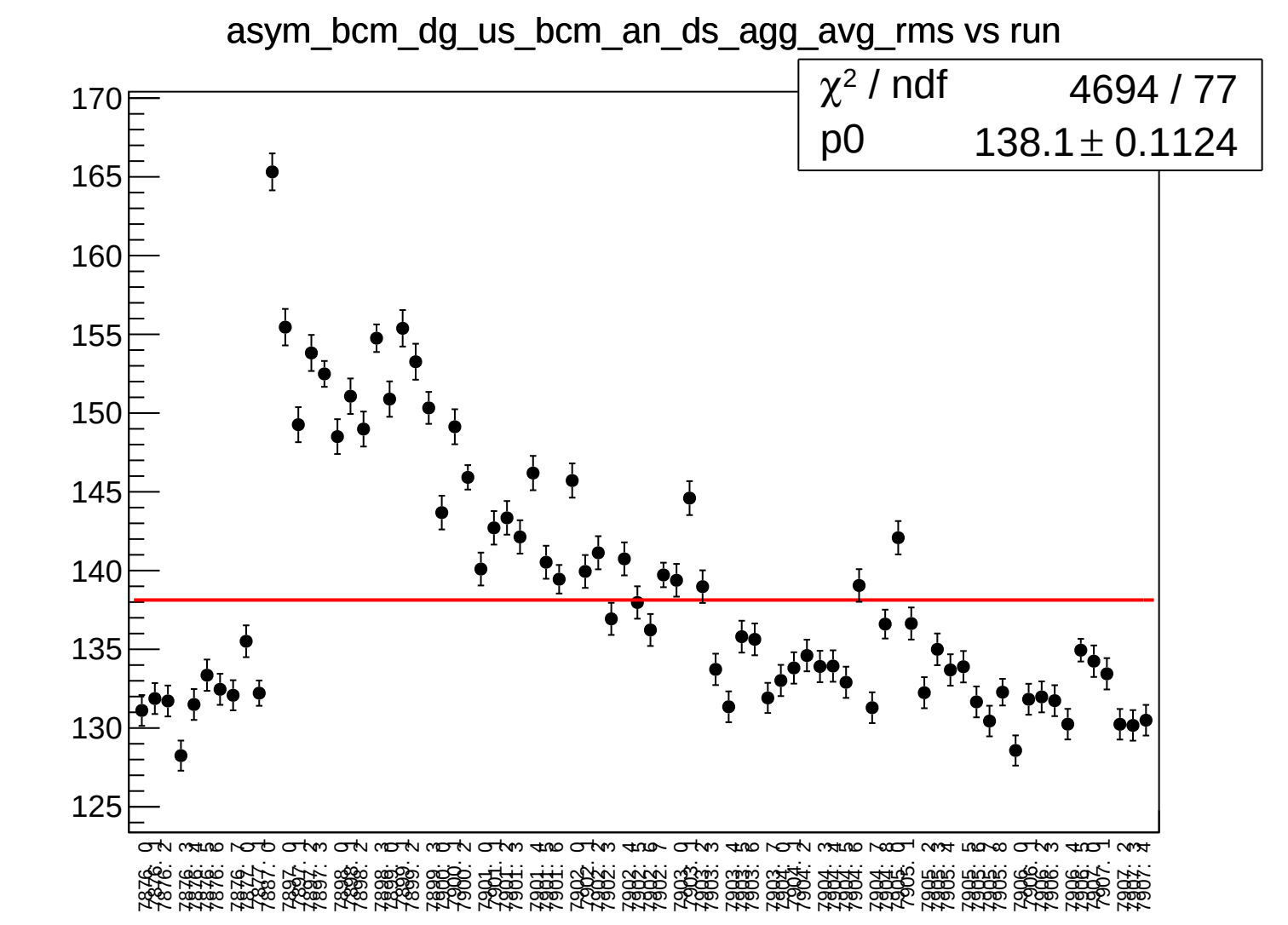

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 95.9 / 77
p0 9.219 ± 12.34
400
200
0
−200
−400
pull
Entries 78
Mean −390.6
Std Dev 423.7
3
2
1
0
−1
−2
−3

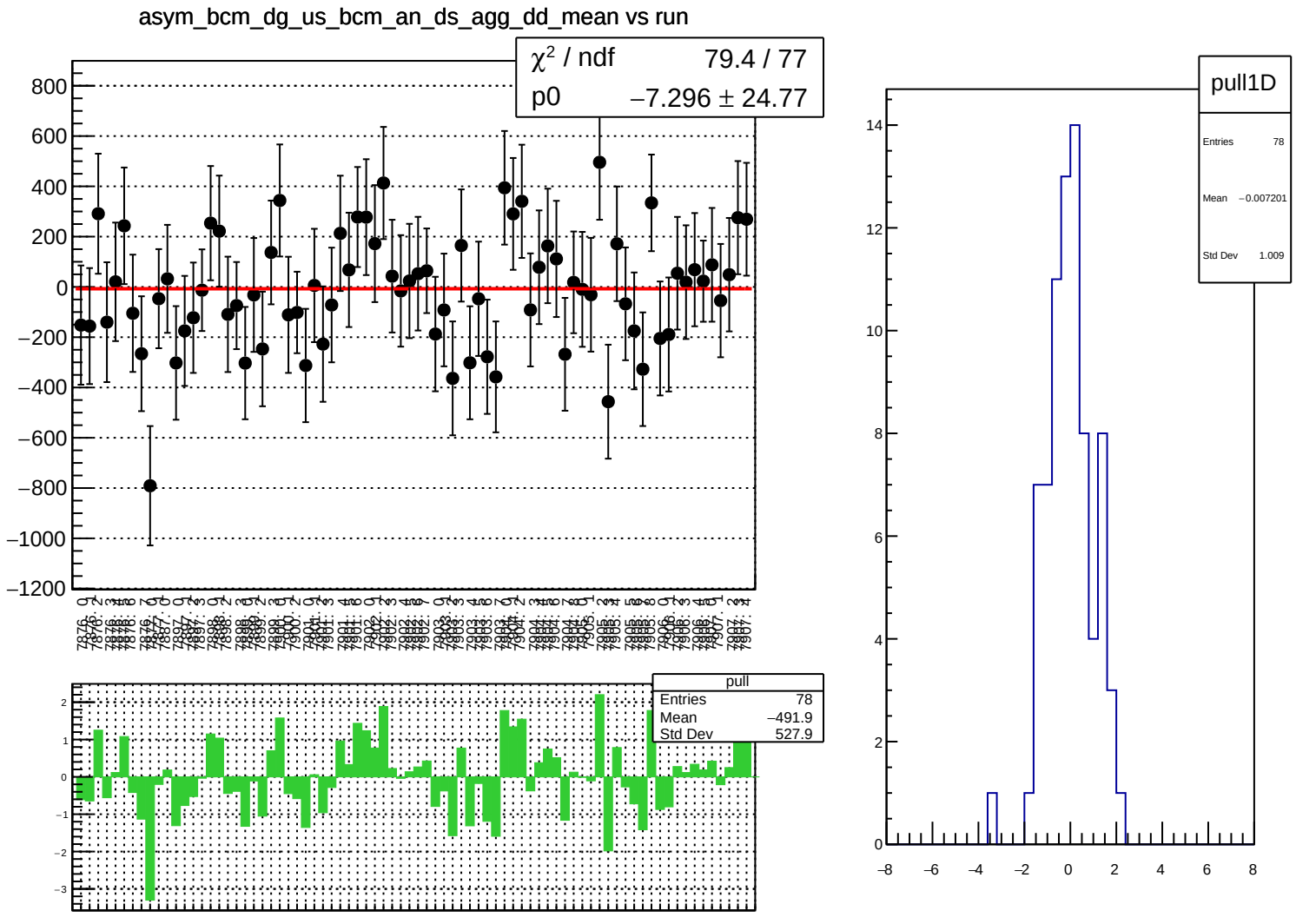

pull1D
Entries 78
Mean −0.01218
Std Dev 1.109
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

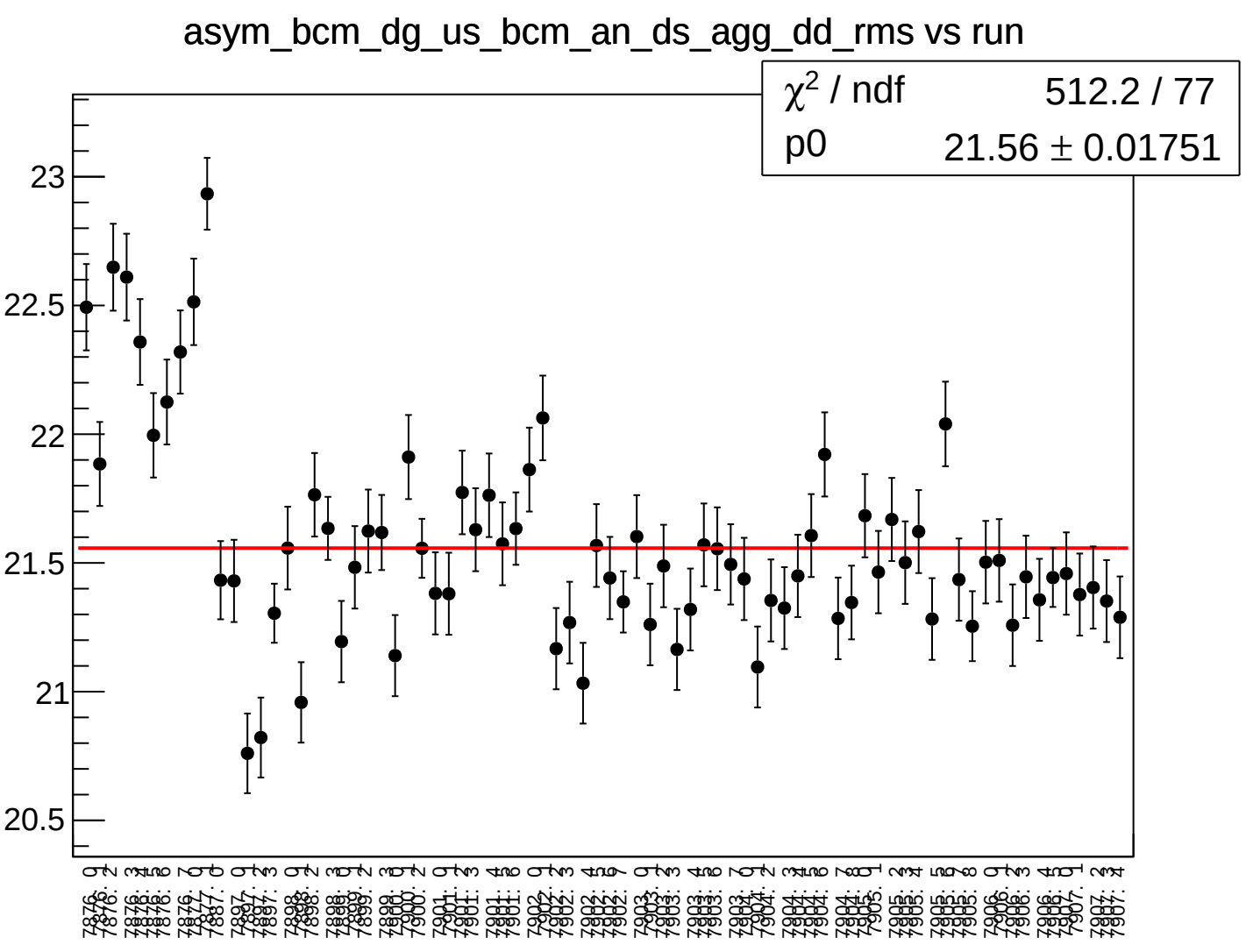

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.056e+04 / 77
p0 10.71 ± 0.008727
14
13
12
11
10
9

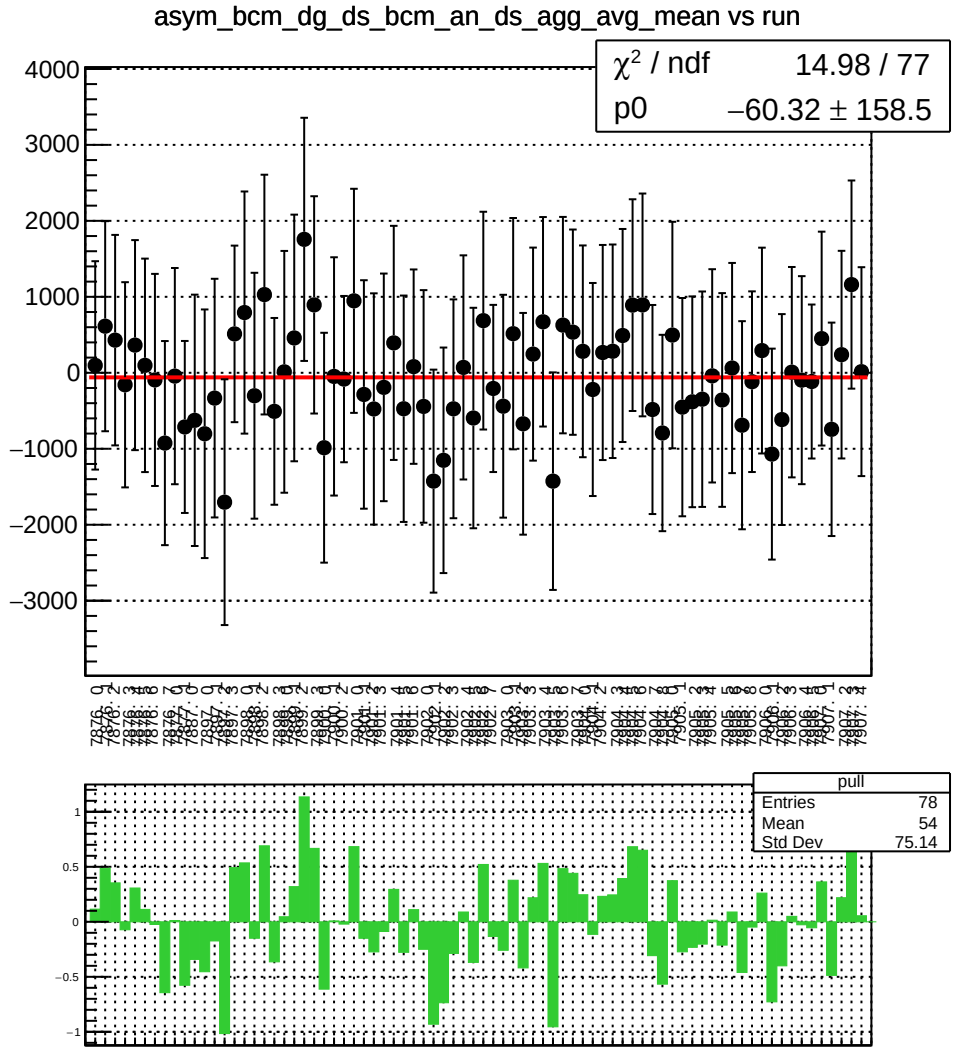

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 16.76 / 77
p0 −74.19 ± 158.9
pull
Entries 78
Mean −876.2
Std Dev 807.8

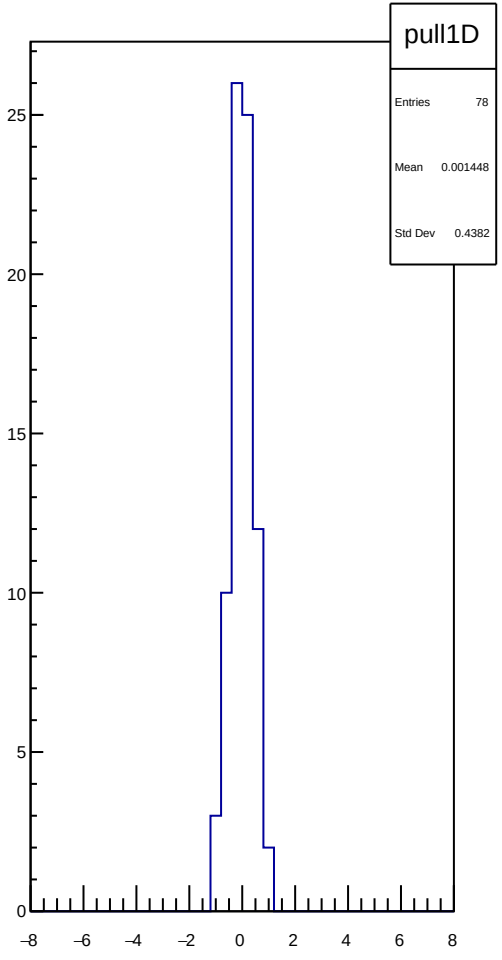

pull1D
Entries 78
Mean 3.42e−05
Std Dev 0.4635

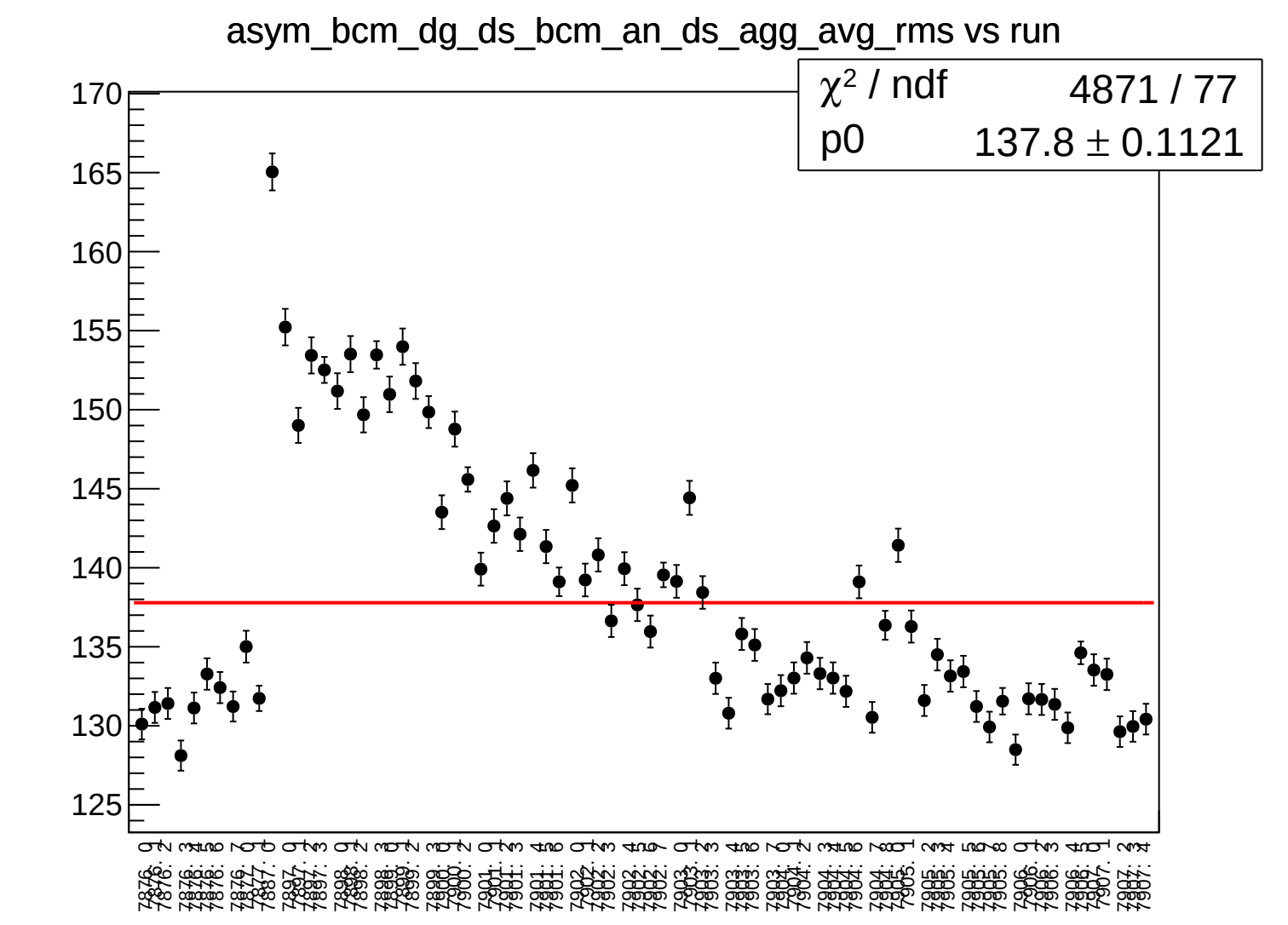

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4694 / 77
p0 138.1 ± 0.1124
170
165
160
155
150
145
140
135
130
125

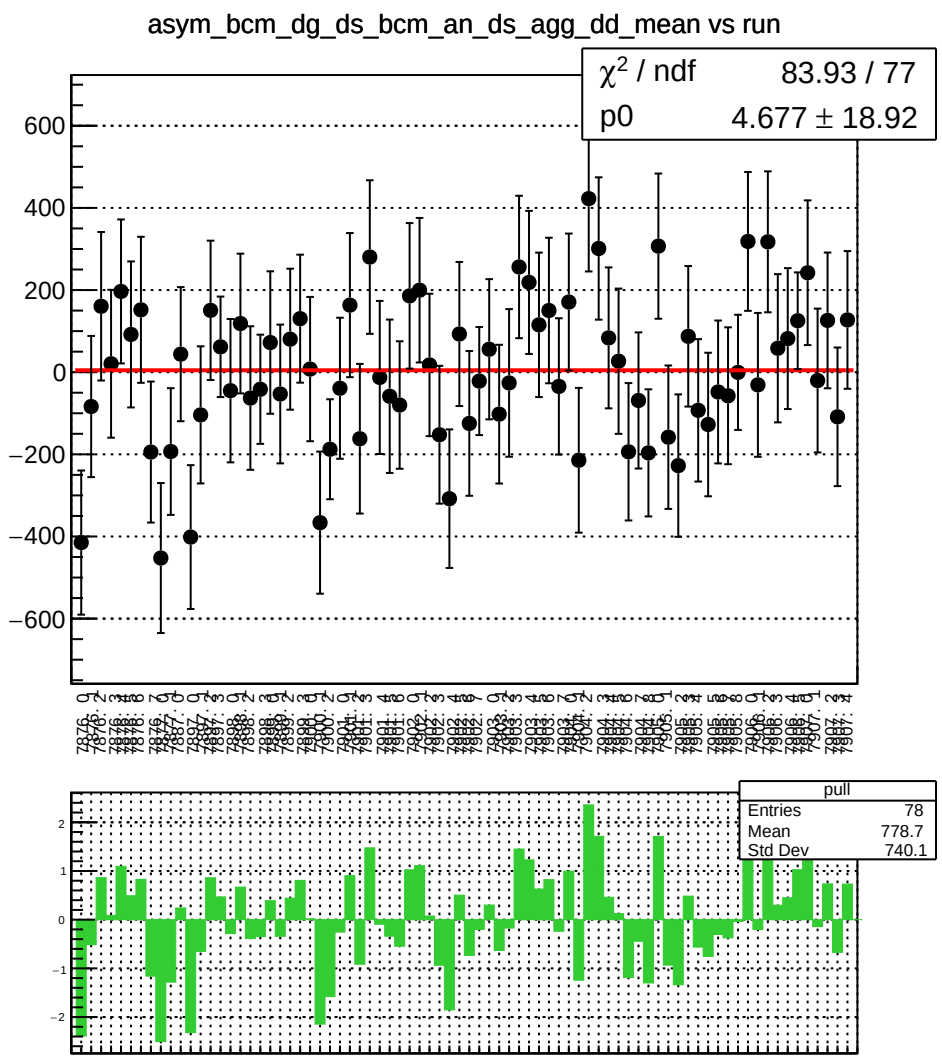

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 79.4 / 77
p0 −7.296 ± 24.77
pull
Entries 78
Mean −491.9
Std Dev 527.9
pull1D
Entries 78
Mean −0.007201
Std Dev 1.009

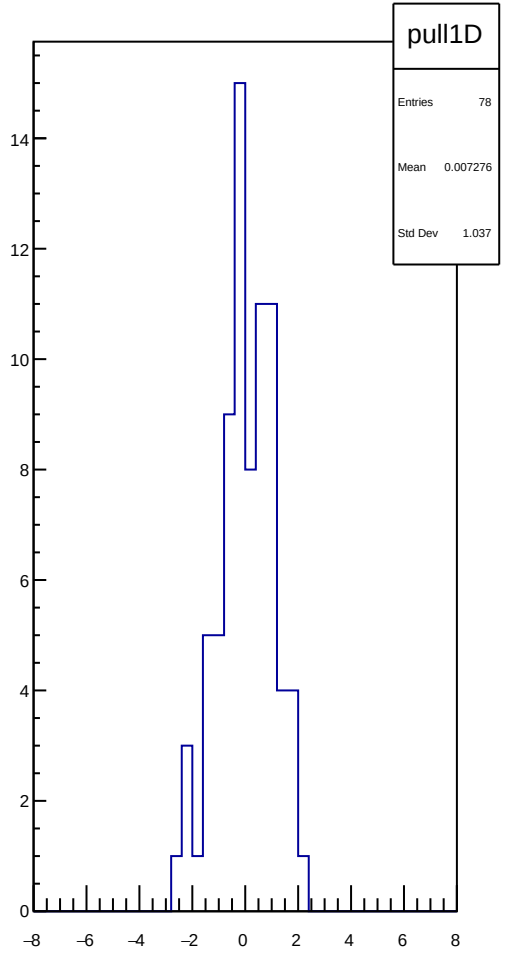

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 512.2 / 77
p0 21.56 ± 0.01751
23
22.5
22
21.5
21
20.5

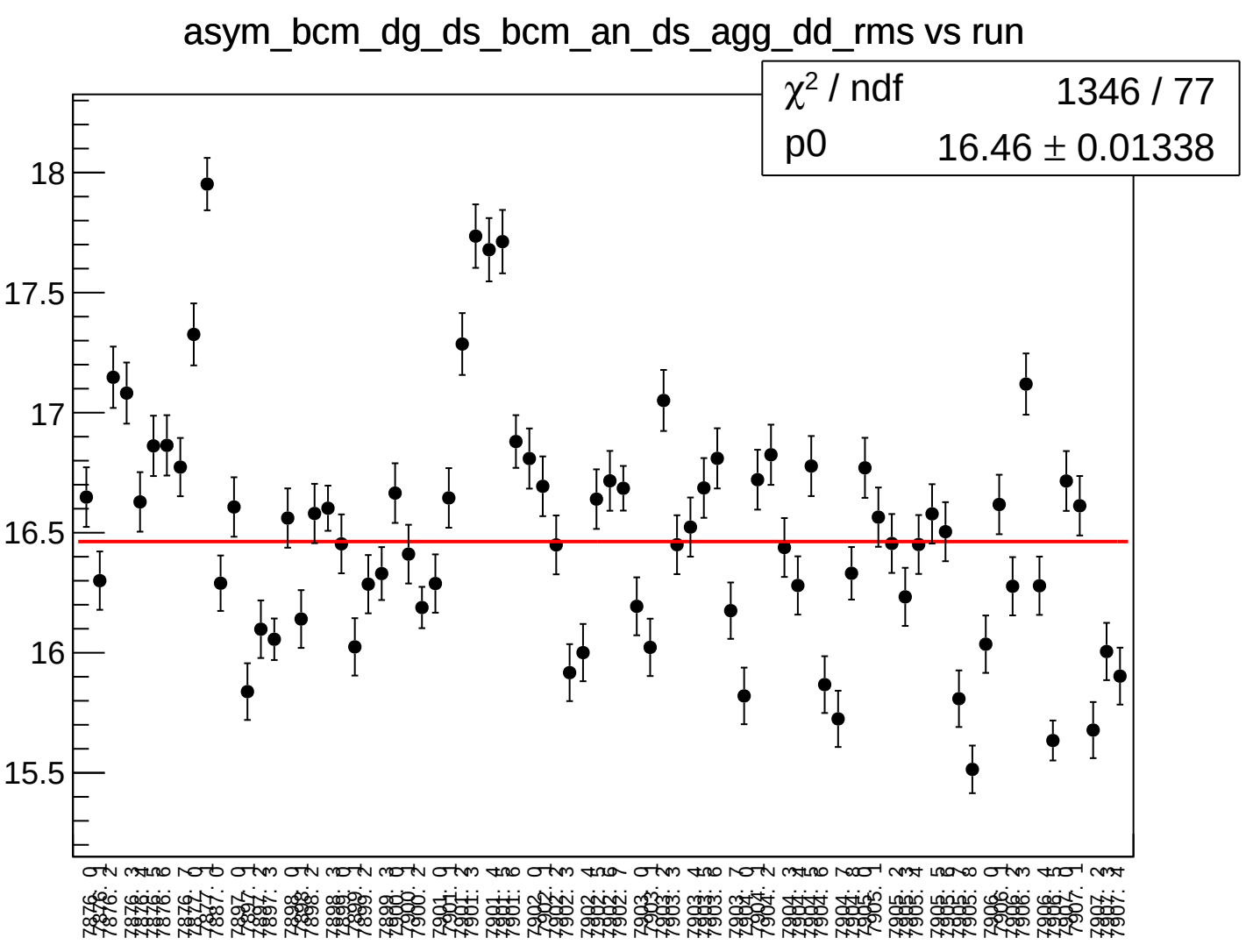

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.98 / 77
p0 −60.32 ± 158.5
pull
Entries 78
Mean 54
Std Dev 75.14

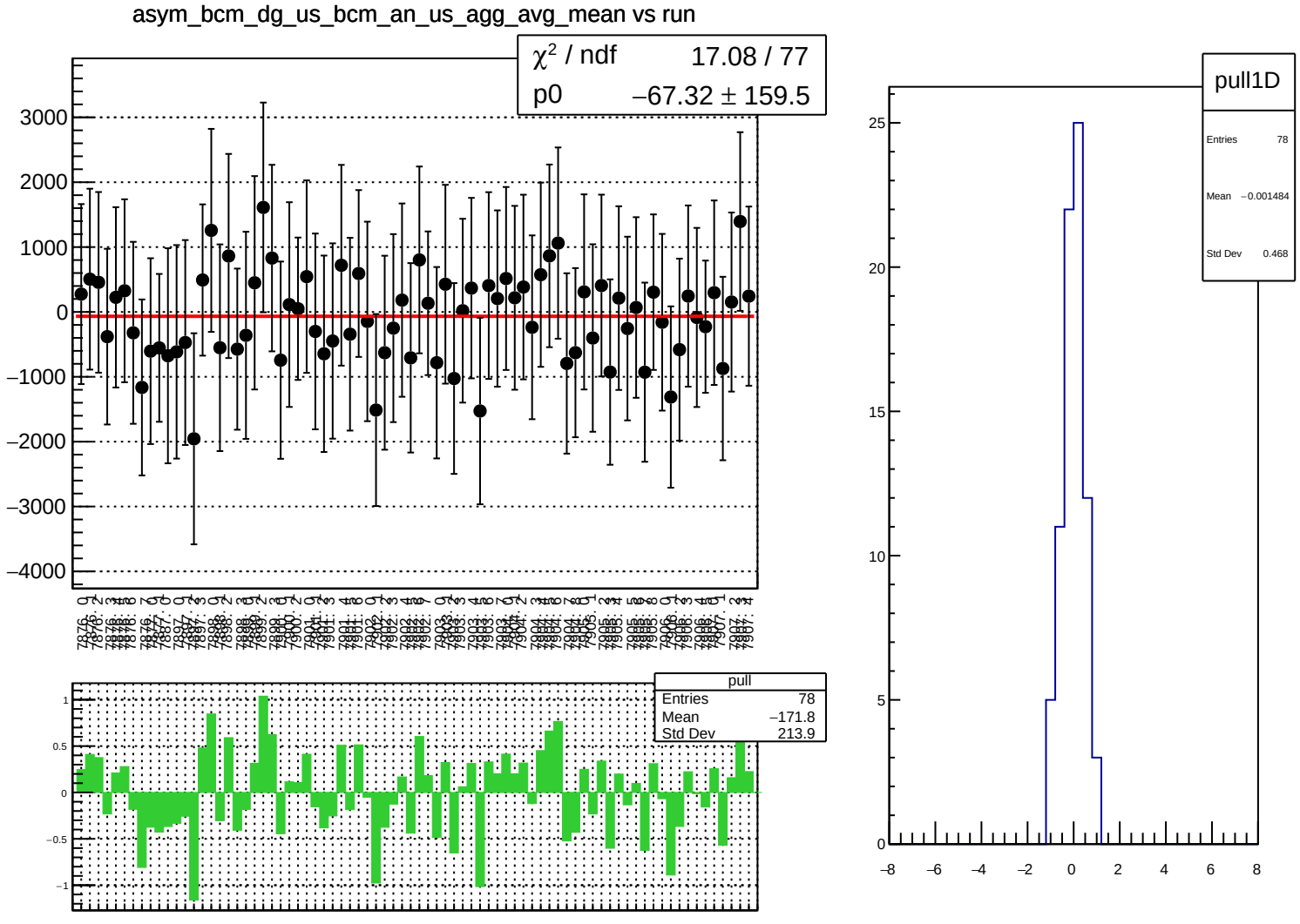

pull1D
Entries 78
Mean 0.001448
Std Dev 0.4382

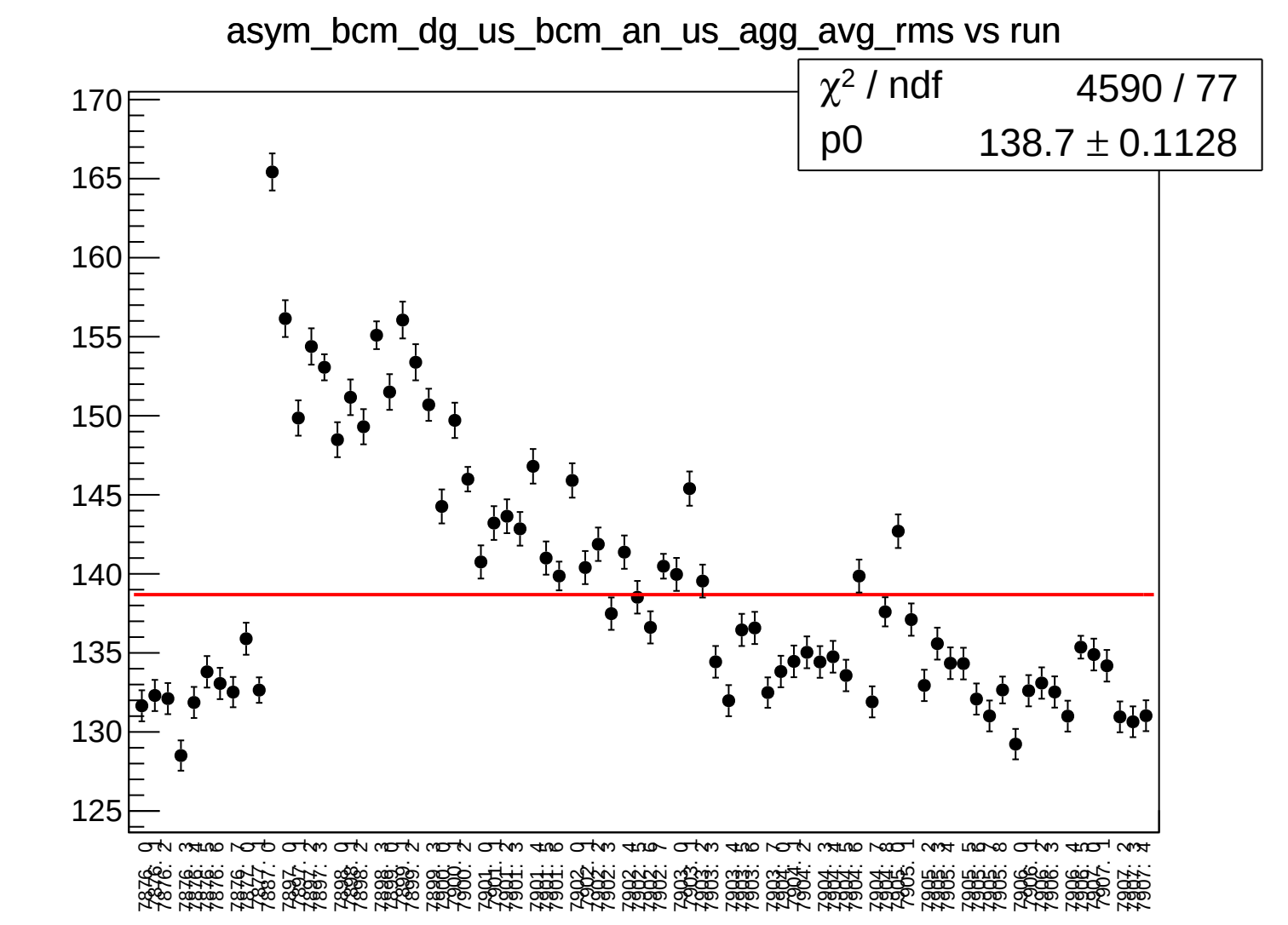

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4871 / 77
p0 137.8 ± 0.1121
170
165
160
155
150
145
140
135
130
125

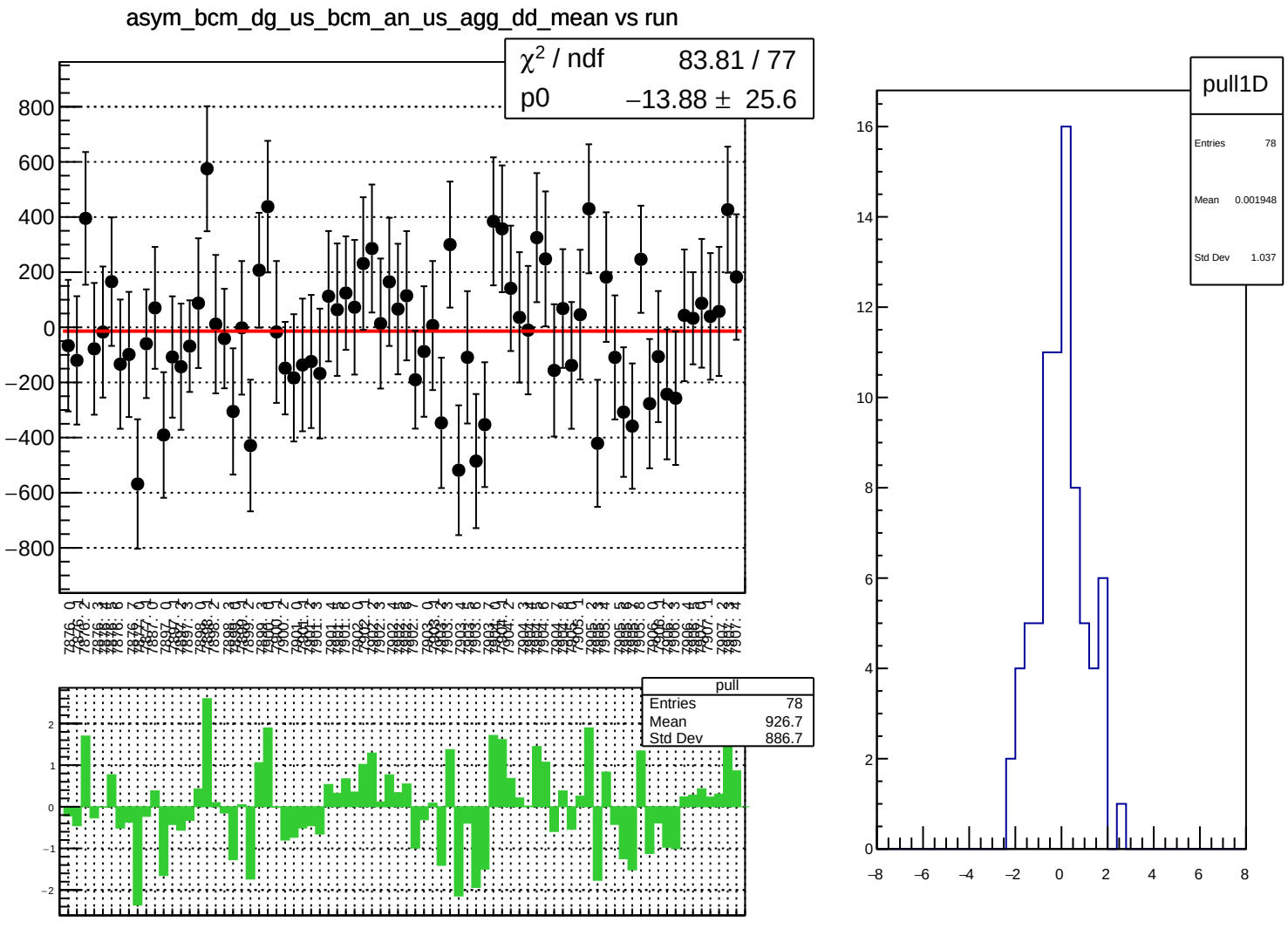

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 83.93 / 77
p0 4.677 ± 18.92
pull
Entries 78
Mean 778.7
Std Dev 740.1

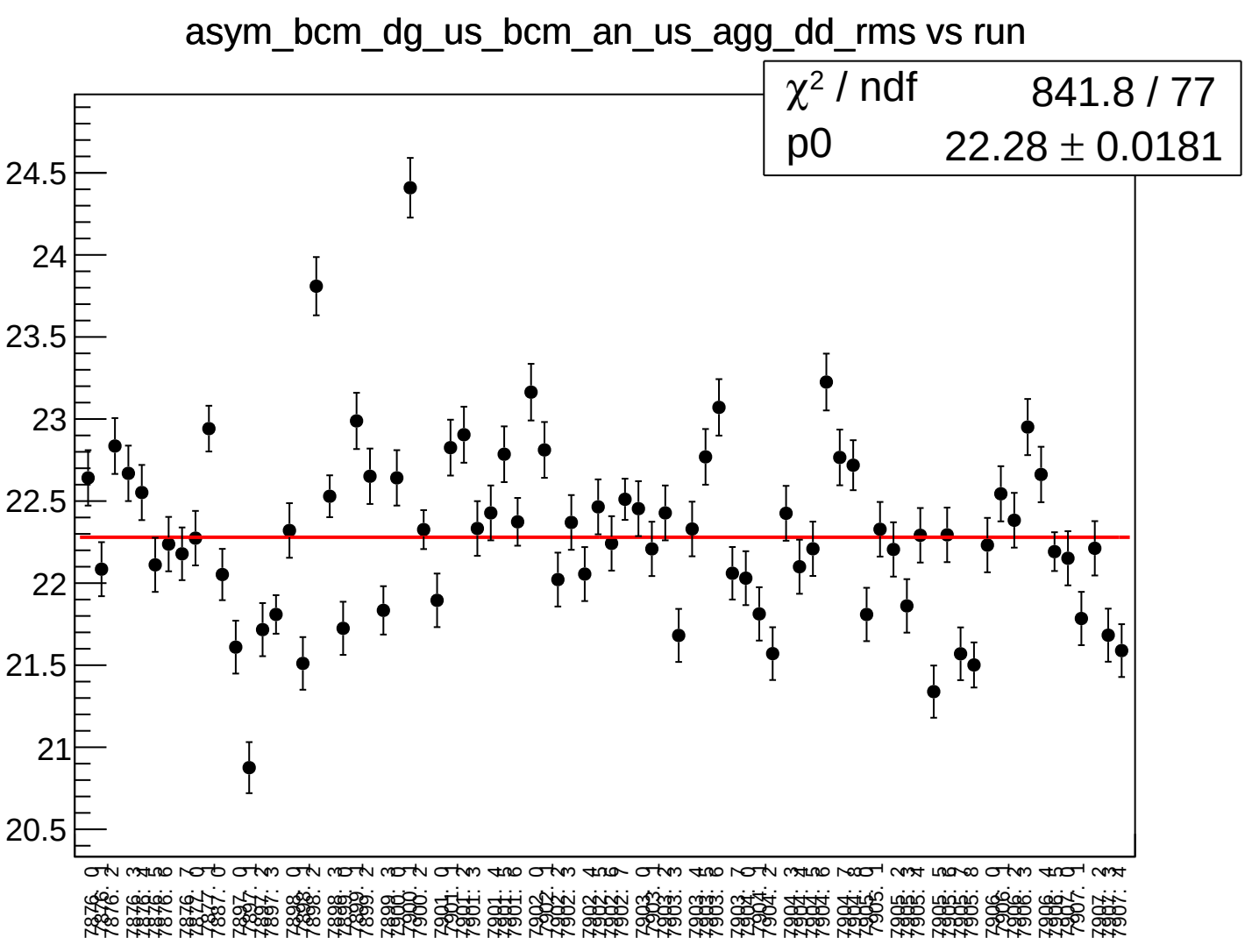

pull1D
Entries 78
Mean 0.007276
Std Dev 1.037

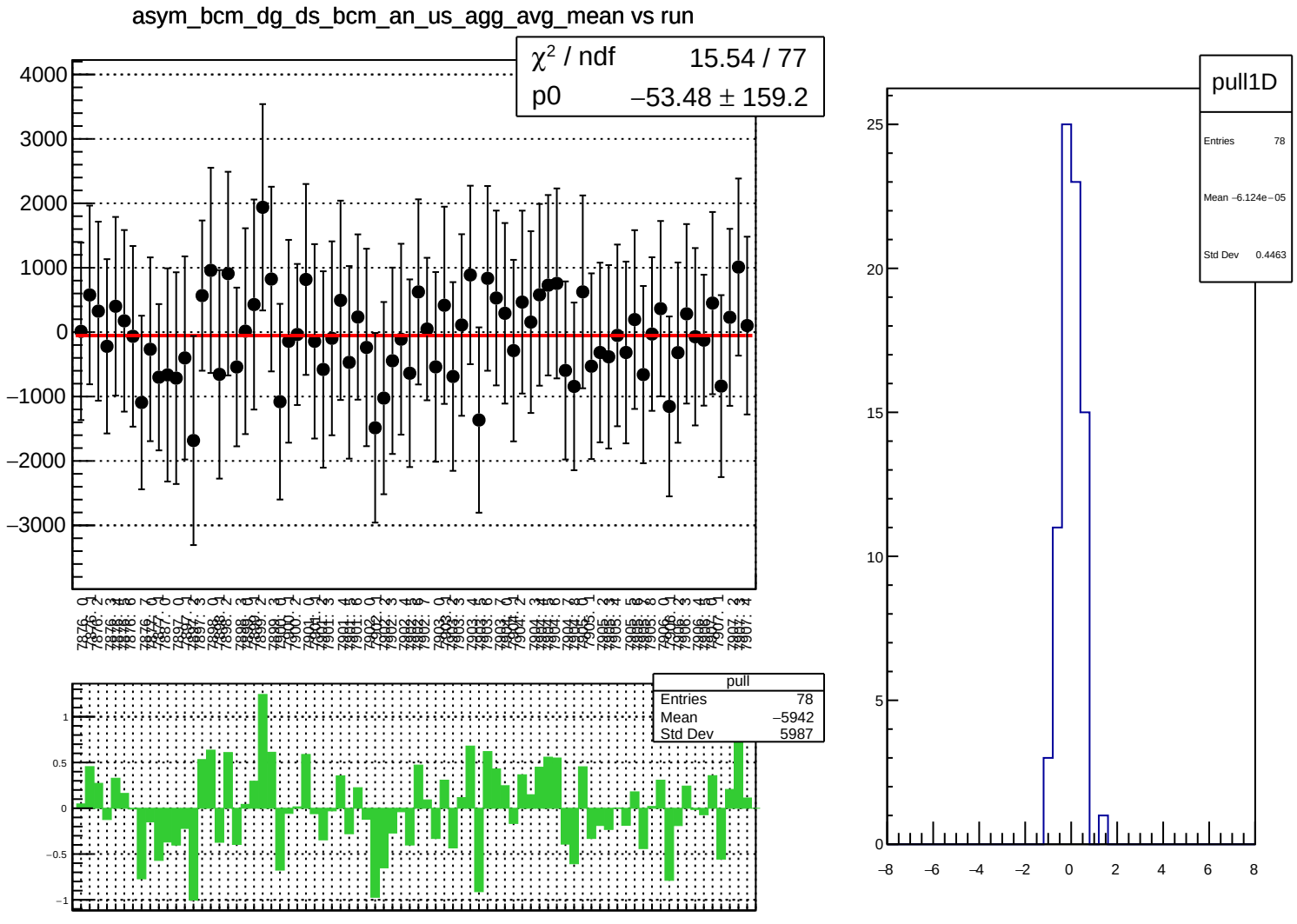

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1346 / 77
p0 16.46 ± 0.01338
18
17.5
17
16.5
16
15.5

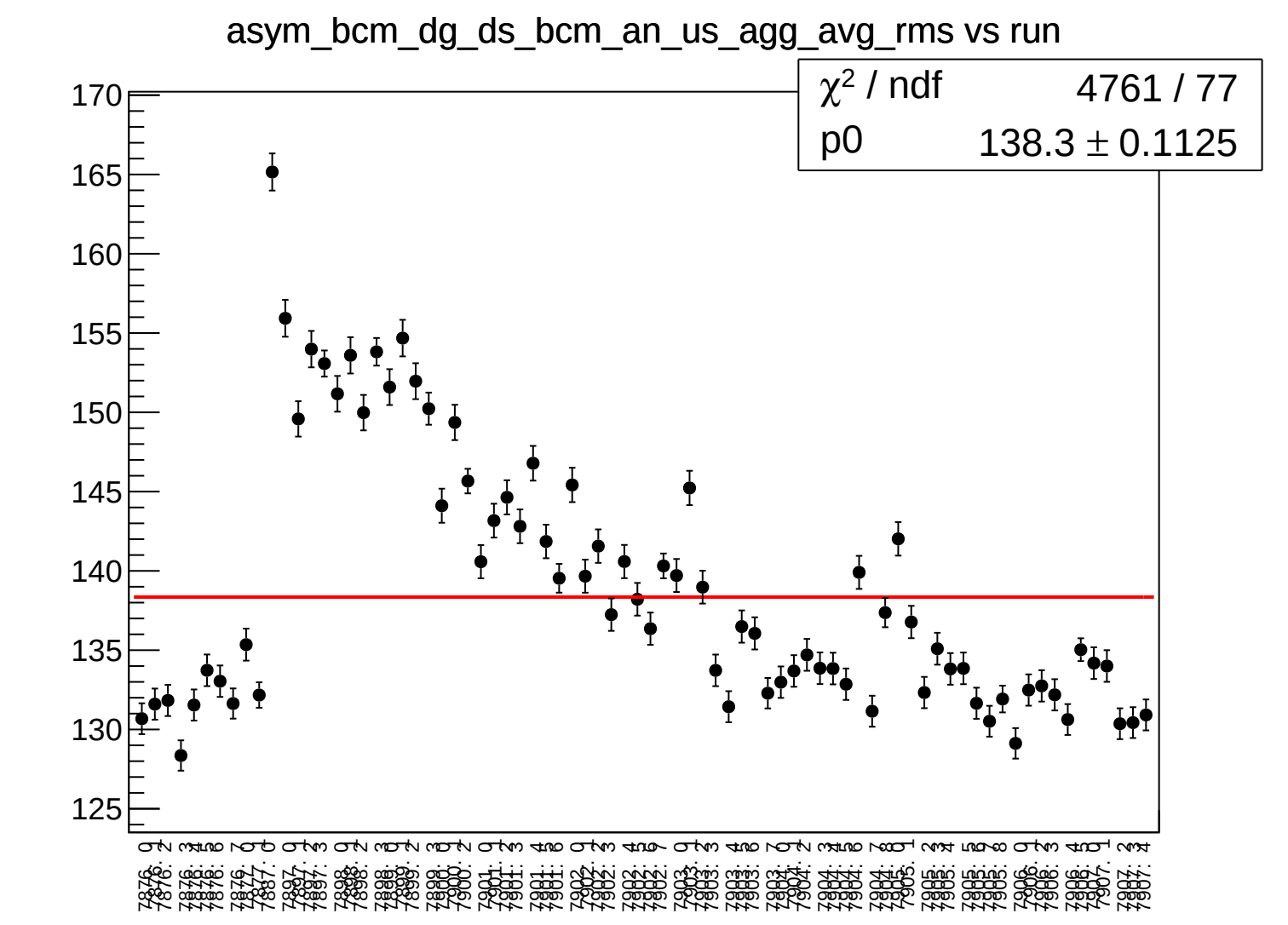

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.08 / 77
p0 −67.32 ± 159.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 78
Mean −171.8
Std Dev 213.9
1
0.5
0
−0.5
−1
pull1D
Entries 78
Mean −0.001484
Std Dev 0.468
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

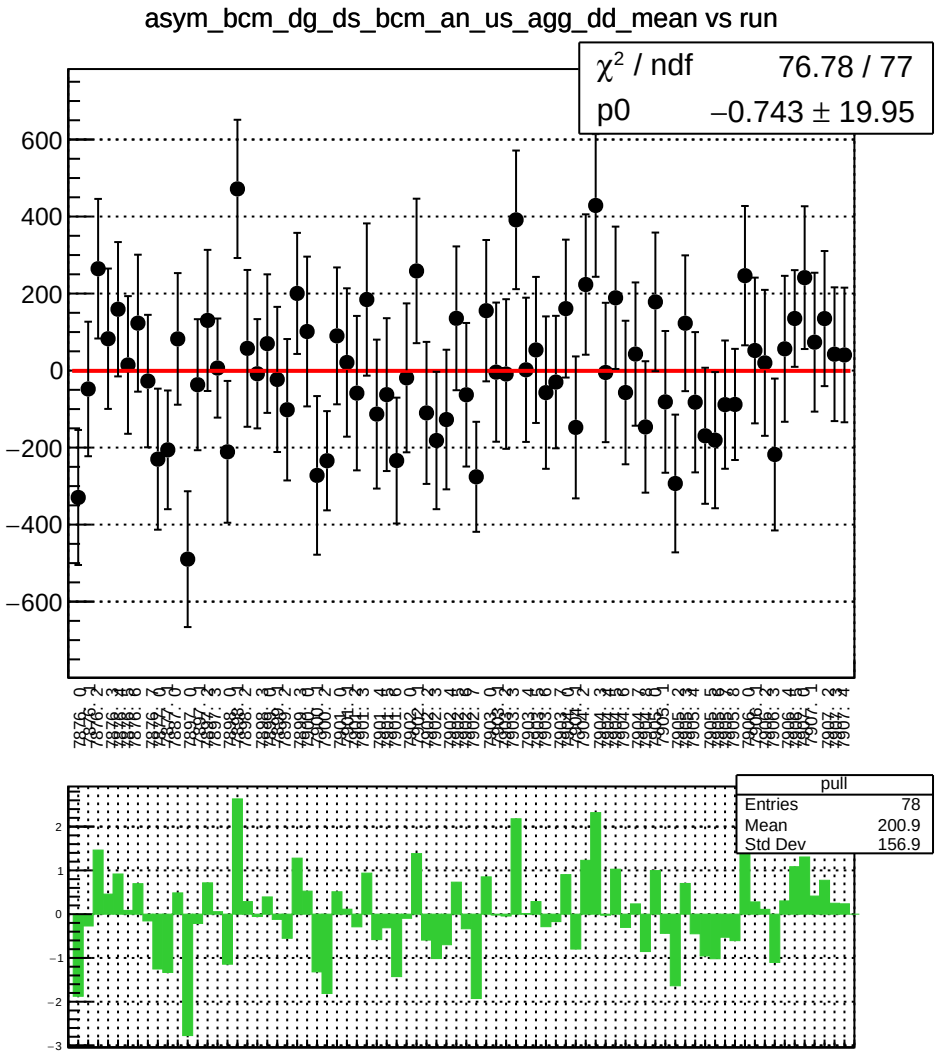

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4590 / 77
p0 138.7 ± 0.1128
170
165
160
155
150
145
140
135
130
125

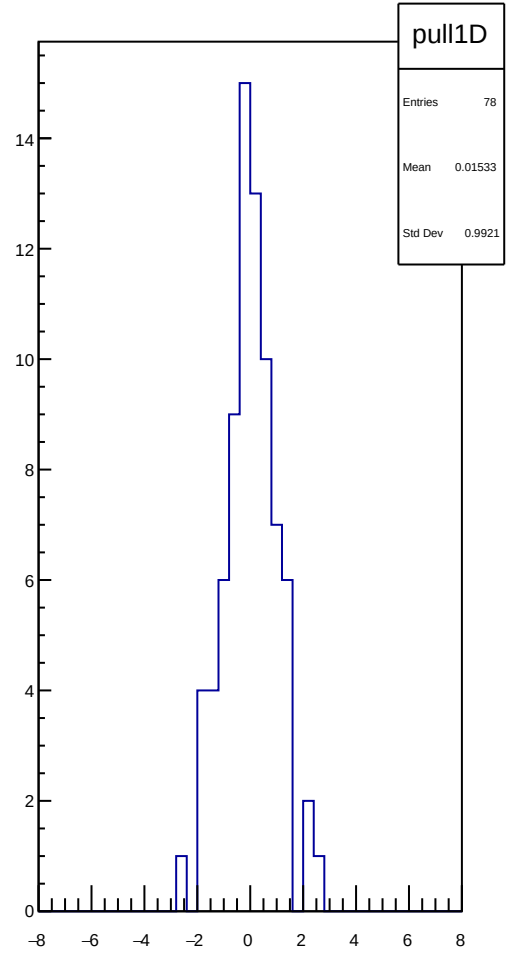

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 83.81 / 77
p0 −13.88 ± 25.6
pull
Entries 78
Mean 926.7
Std Dev 886.7
pull1D
Entries 78
Mean 0.001948
Std Dev 1.037

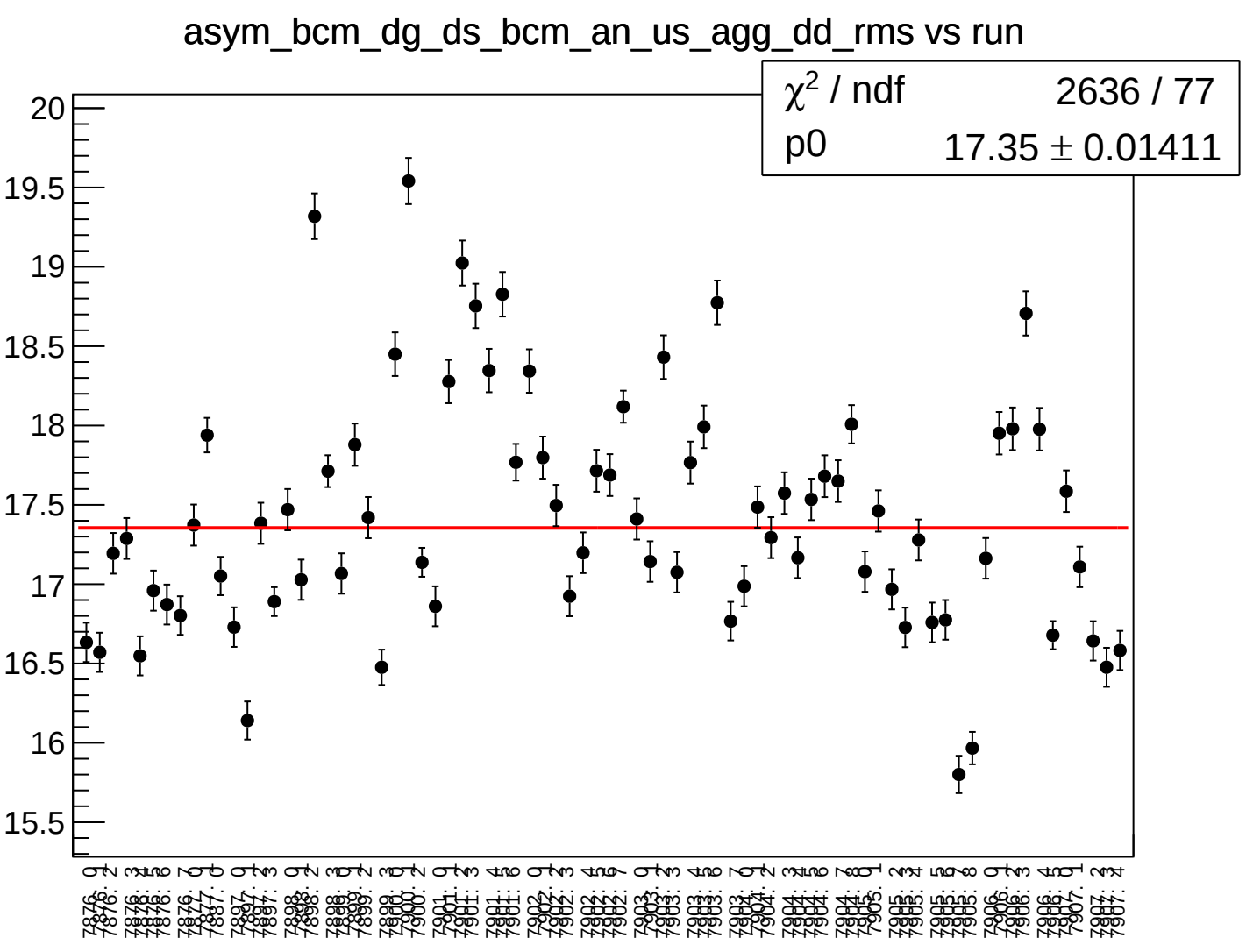

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 841.8 / 77
p0 22.28 ± 0.0181
24.5
24
23.5
23
22.5
22
21.5
21
20.5

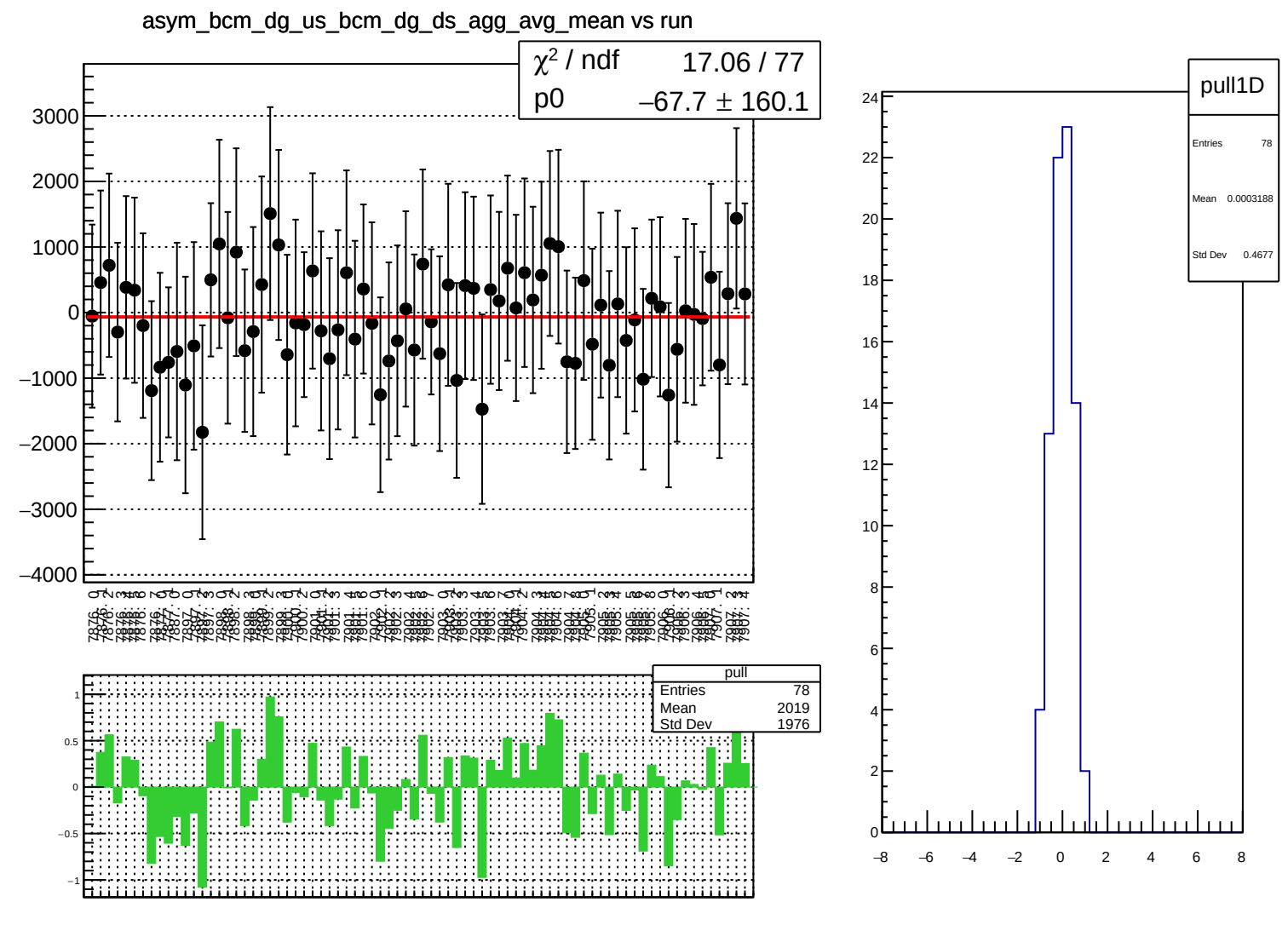

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.54 / 77
p0 −53.48 ± 159.2
pull
Entries 78
Mean −5942
Std Dev 5987
pull1D
Entries 78
Mean −6.124e−05
Std Dev 0.4463

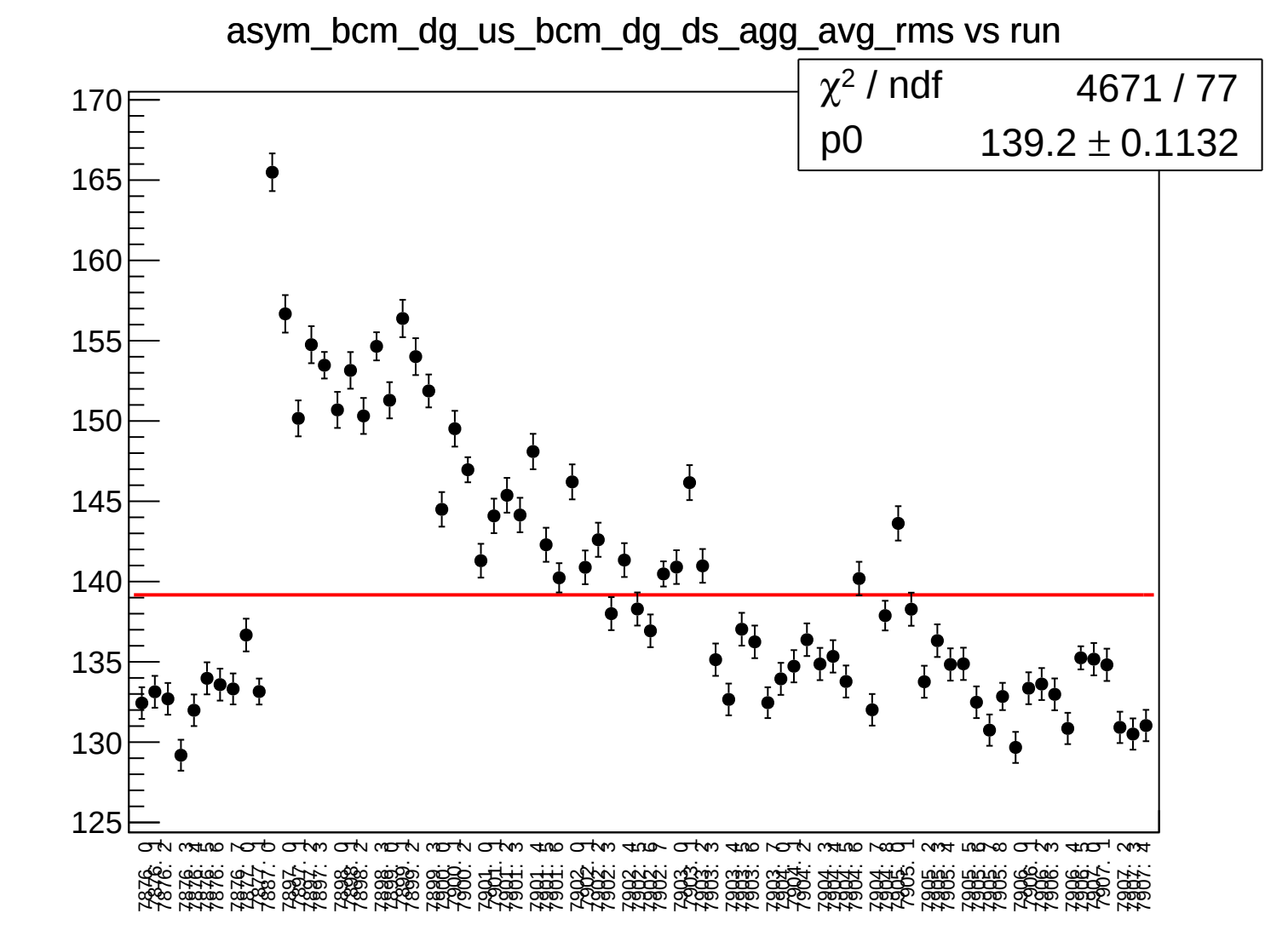

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4761 / 77
p0 138.3 ± 0.1125
170
165
160
155
150
145
140
135
130
125

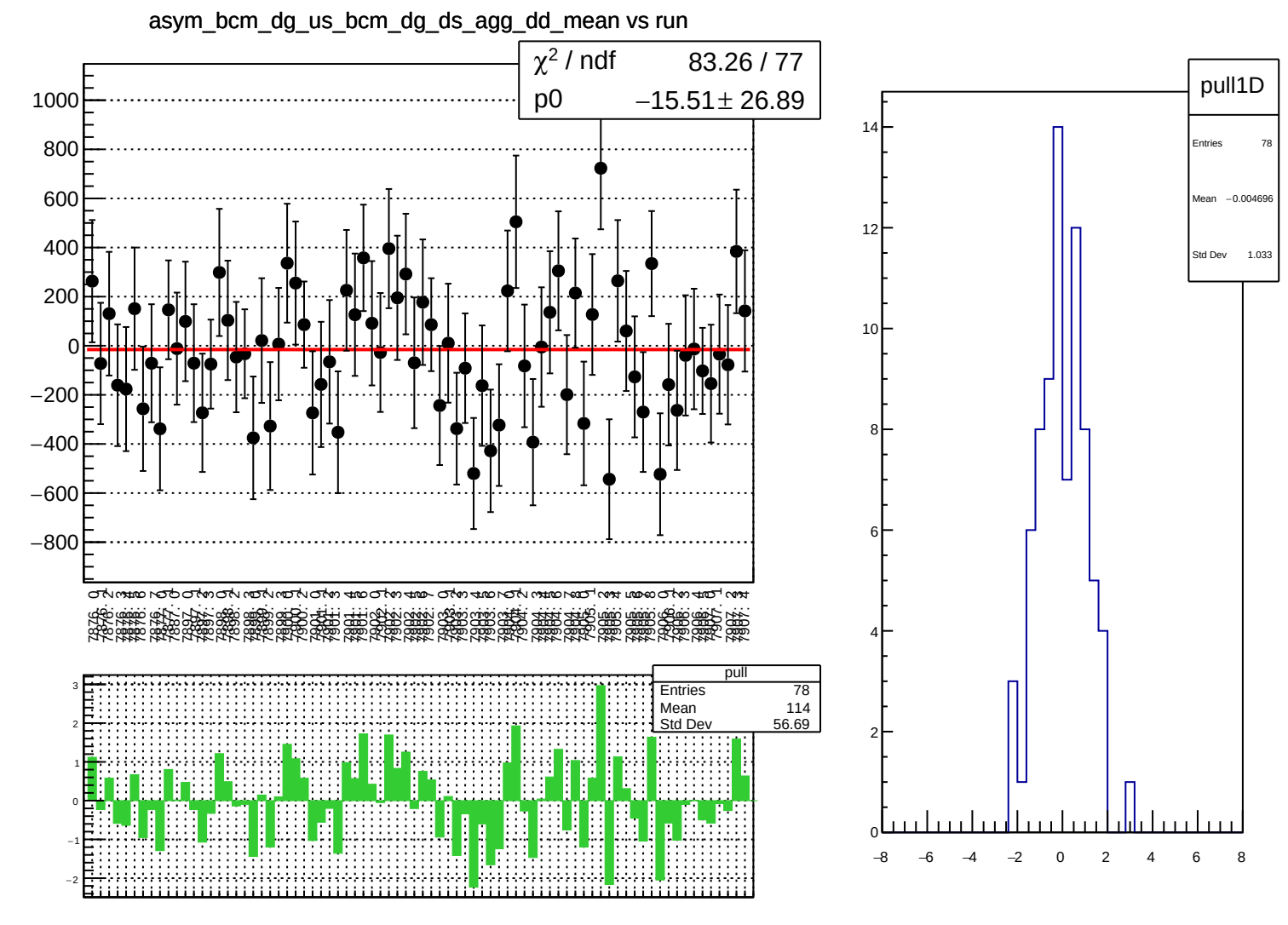

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 76.78 / 77
p0 −0.743 ± 19.95
pull
Entries 78
Mean 200.9
Std Dev 156.9

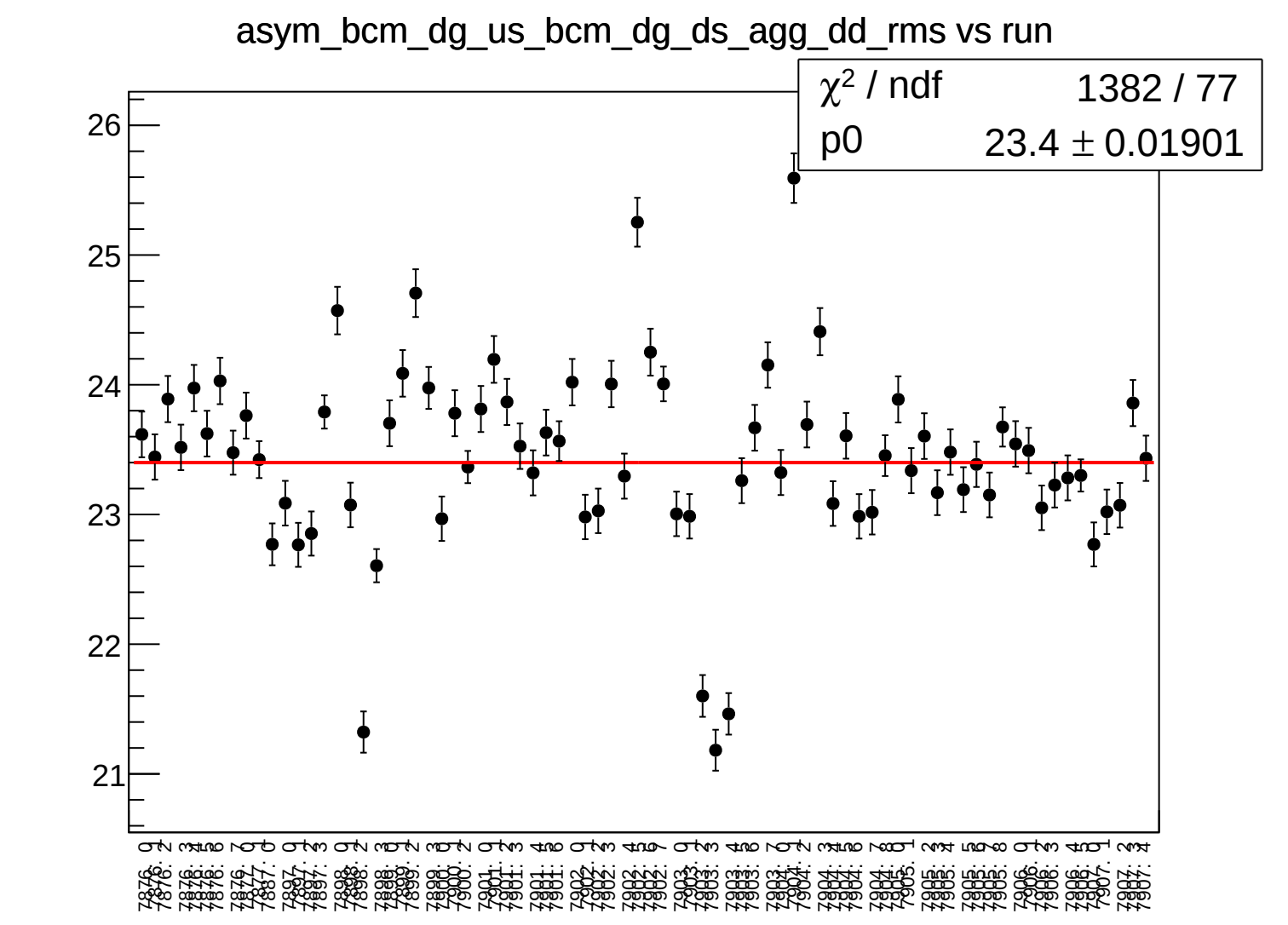

pull1D
Entries 78
Mean 0.01533
Std Dev 0.9921

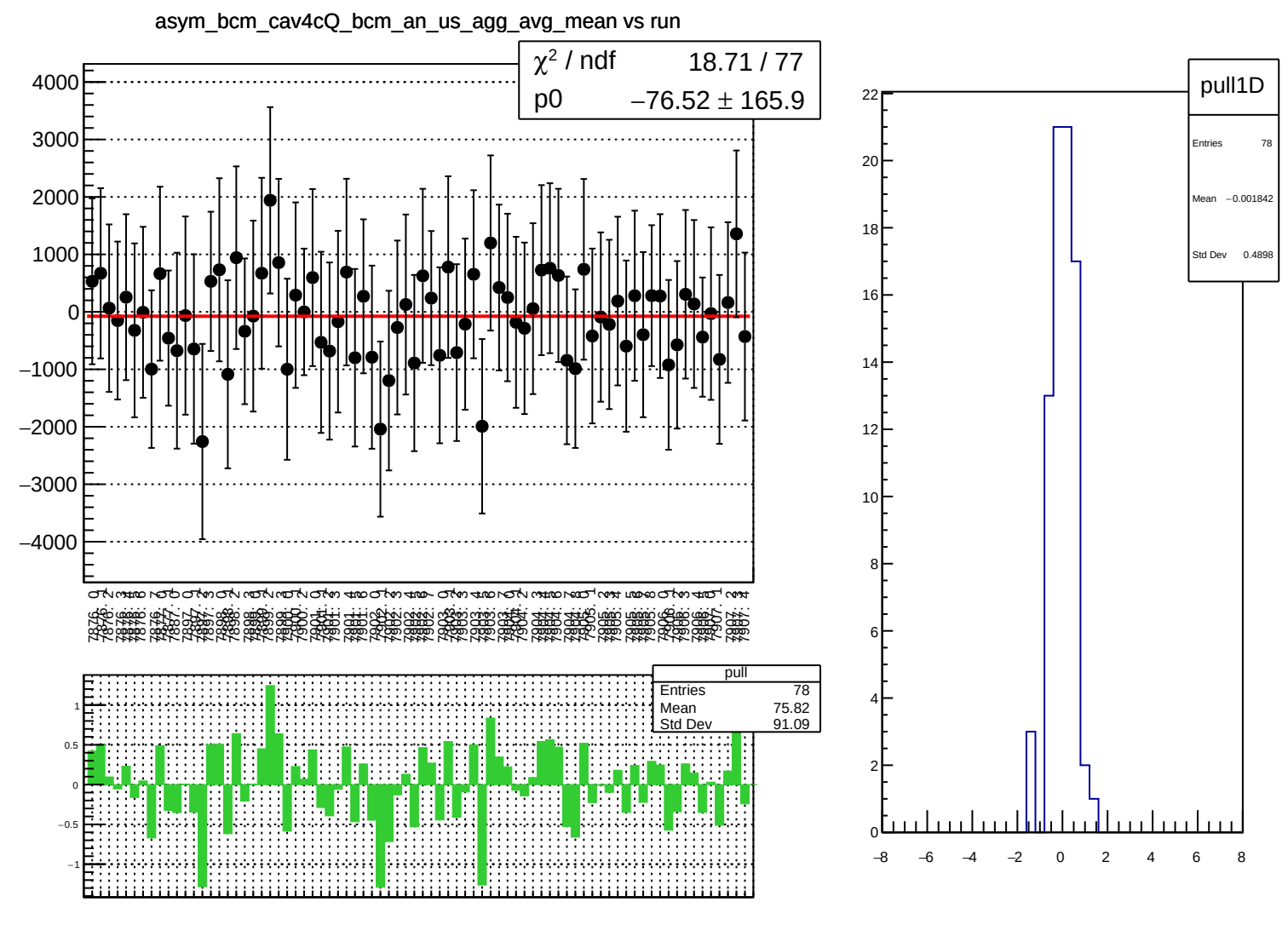

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2636 / 77
p0 17.35 ± 0.01411
20
19.5
19
18.5
18
17.5
17
16.5
16
15.5

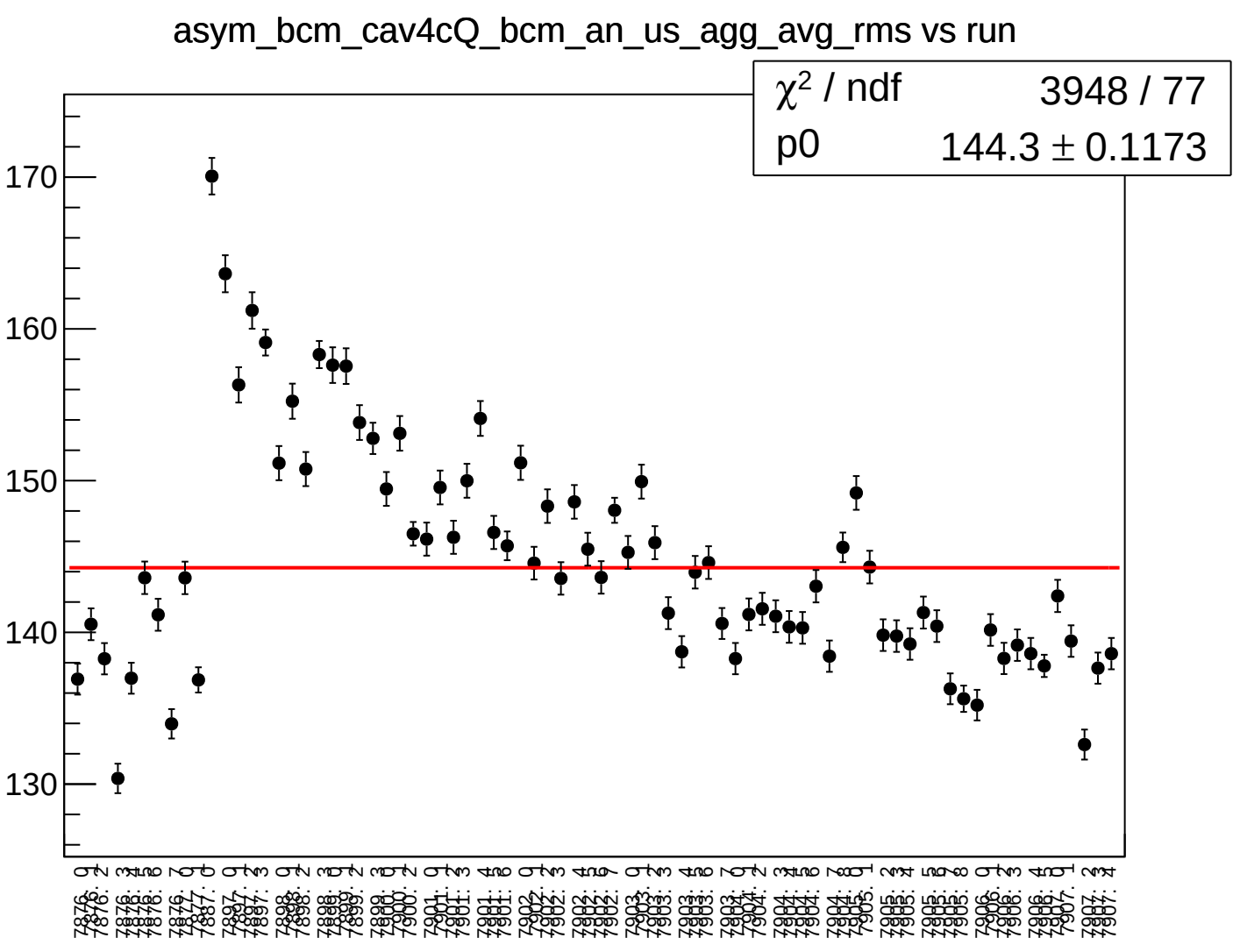

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 17.06 / 77
p0 −67.7 ± 160.1
pull
Entries 78
Mean 2019
Std Dev 1976
pull1D
Entries 78
Mean 0.0003188
Std Dev 0.4677

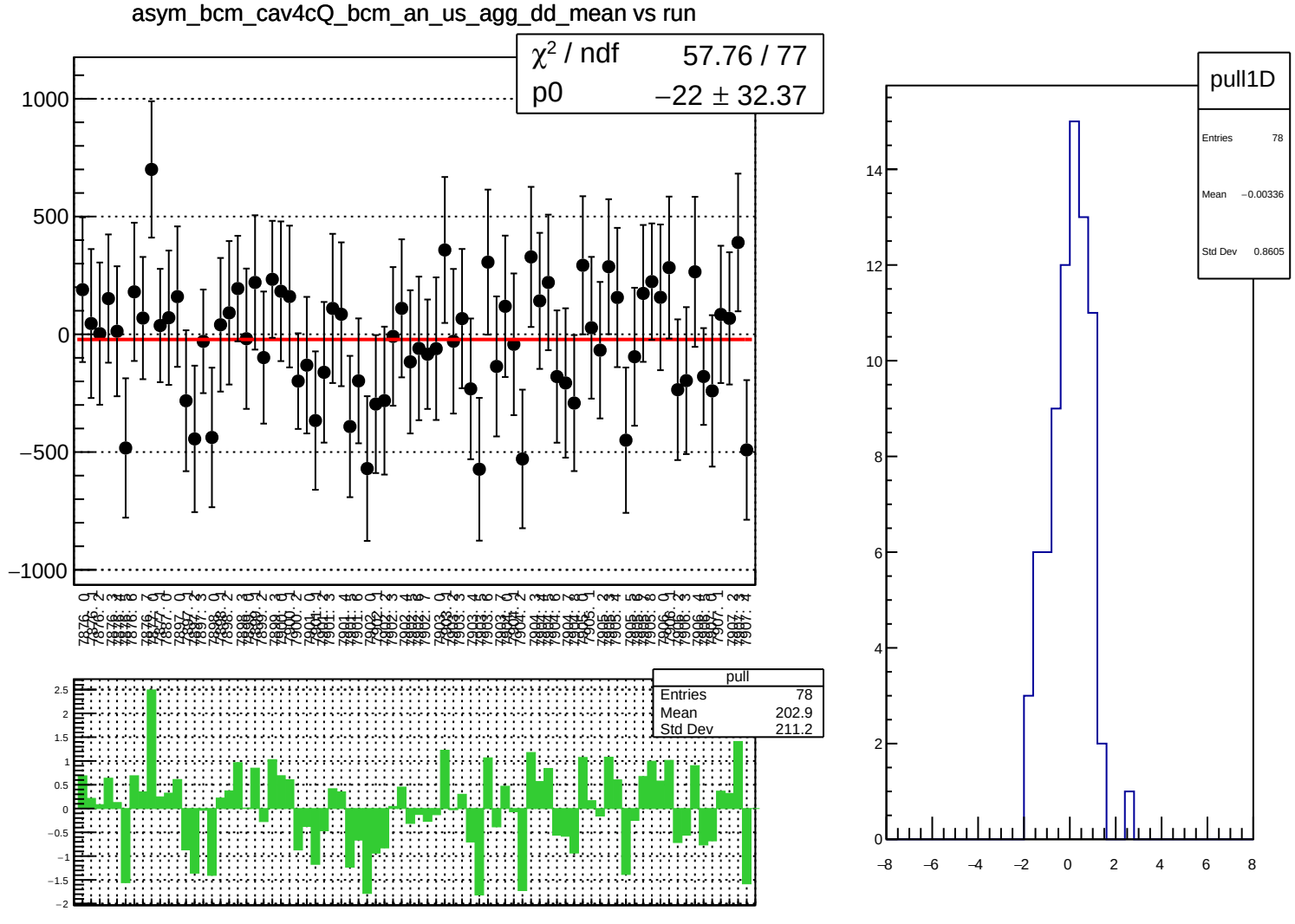

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4671 / 77
p0 139.2 ± 0.1132
170
165
160
155
150
145
140
135
130
125

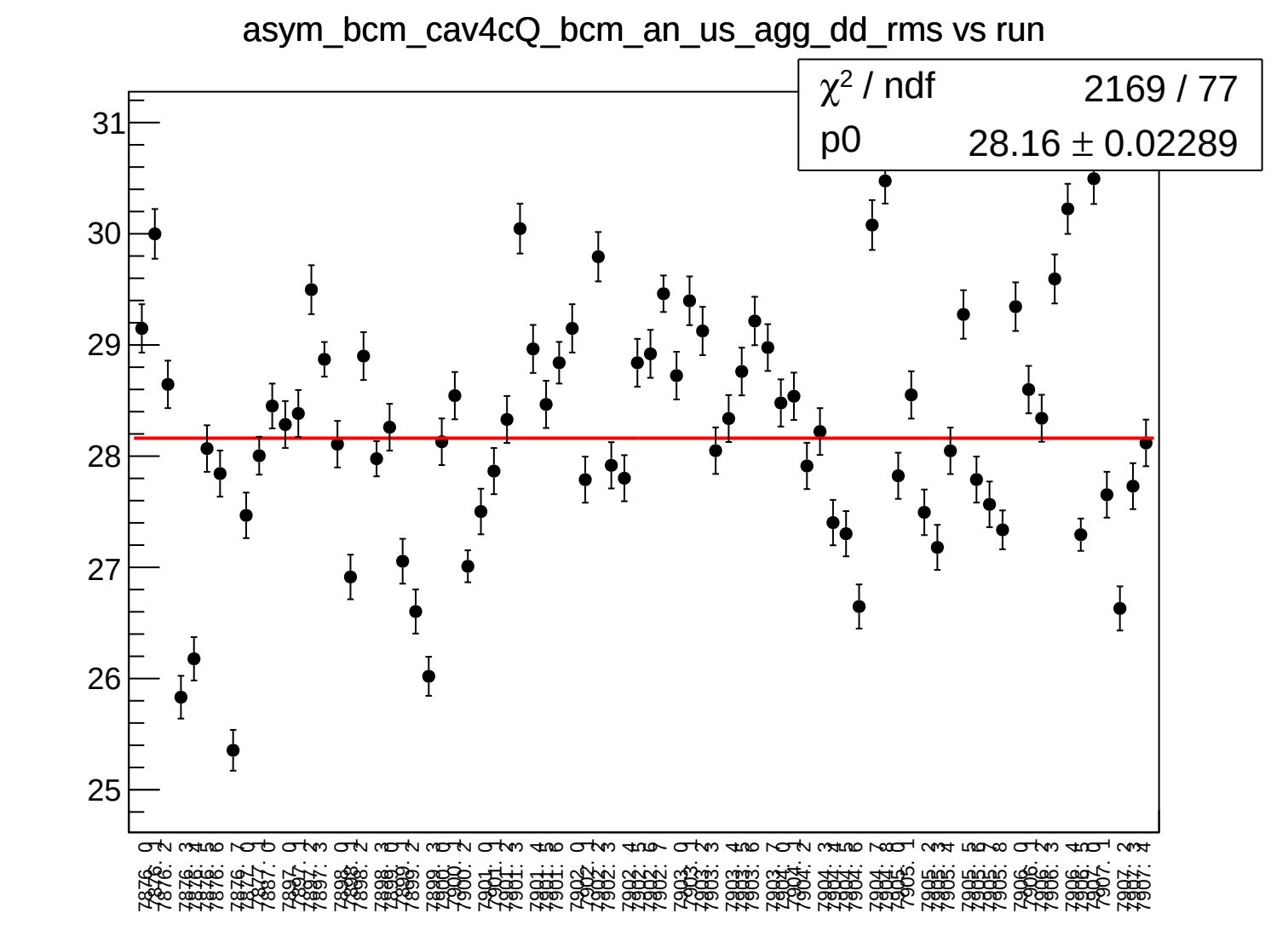

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 83.26 / 77
p0 −15.51 ± 26.89
pull
Entries 78
Mean 114
Std Dev 56.69
pull1D
Entries 78
Mean −0.004696
Std Dev 1.033

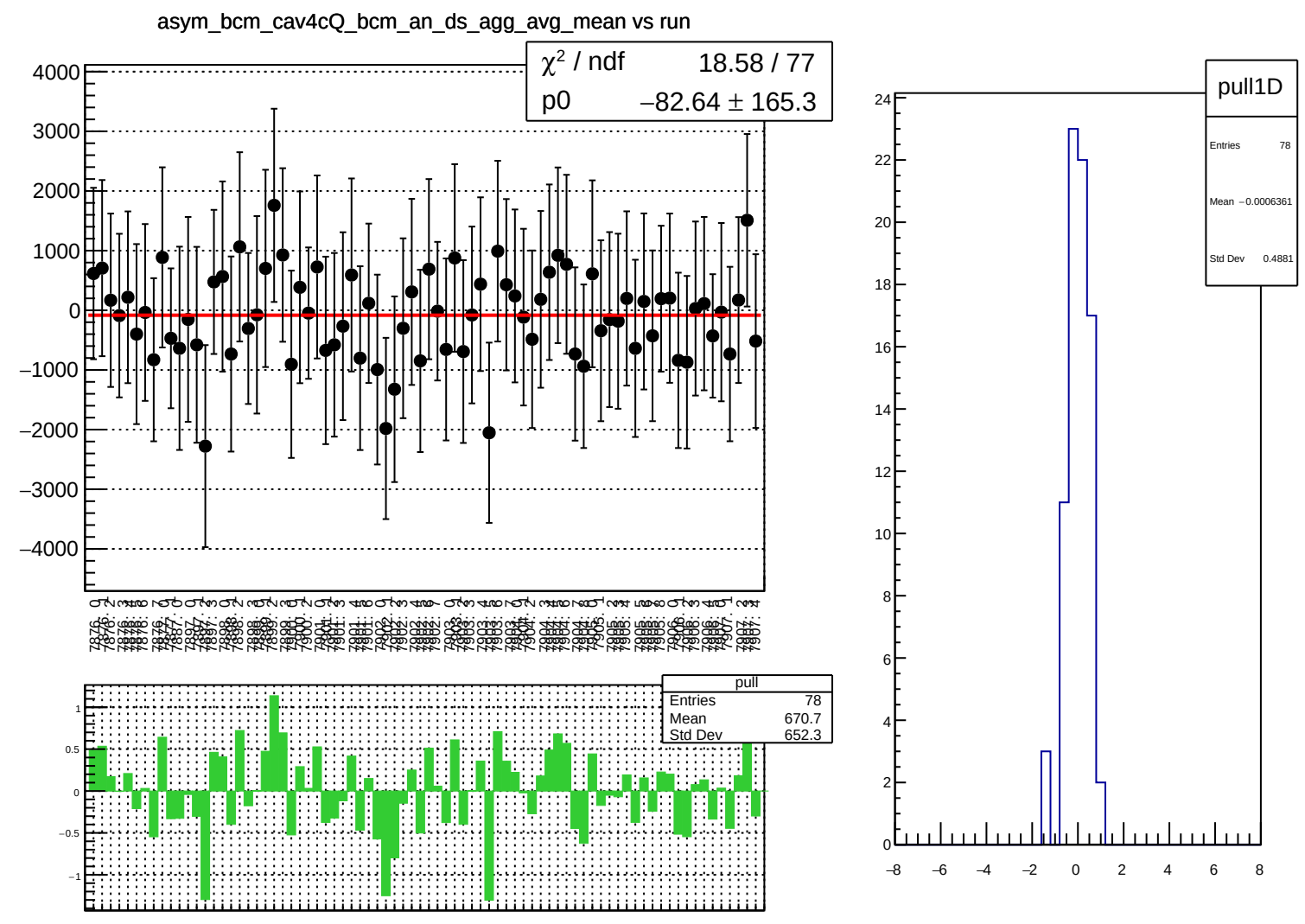

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1382 / 77
p0 23.4 ± 0.01901
26
25
24
23
22
21

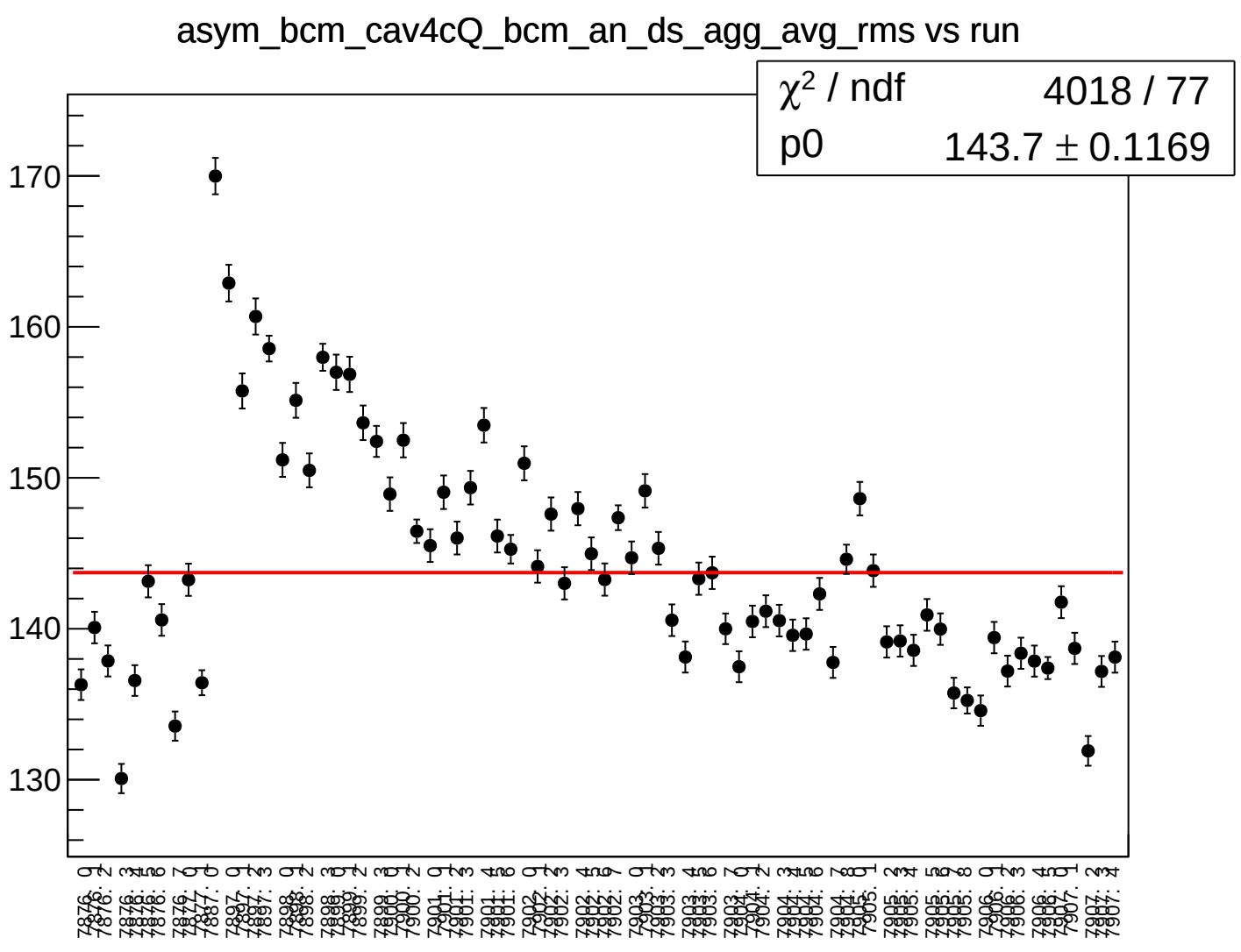

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 18.71 / 77
p0 −76.52 ± 165.9
pull
Entries 78
Mean 75.82
Std Dev 91.09
pull1D
Entries 78
Mean −0.001842
Std Dev 0.4898

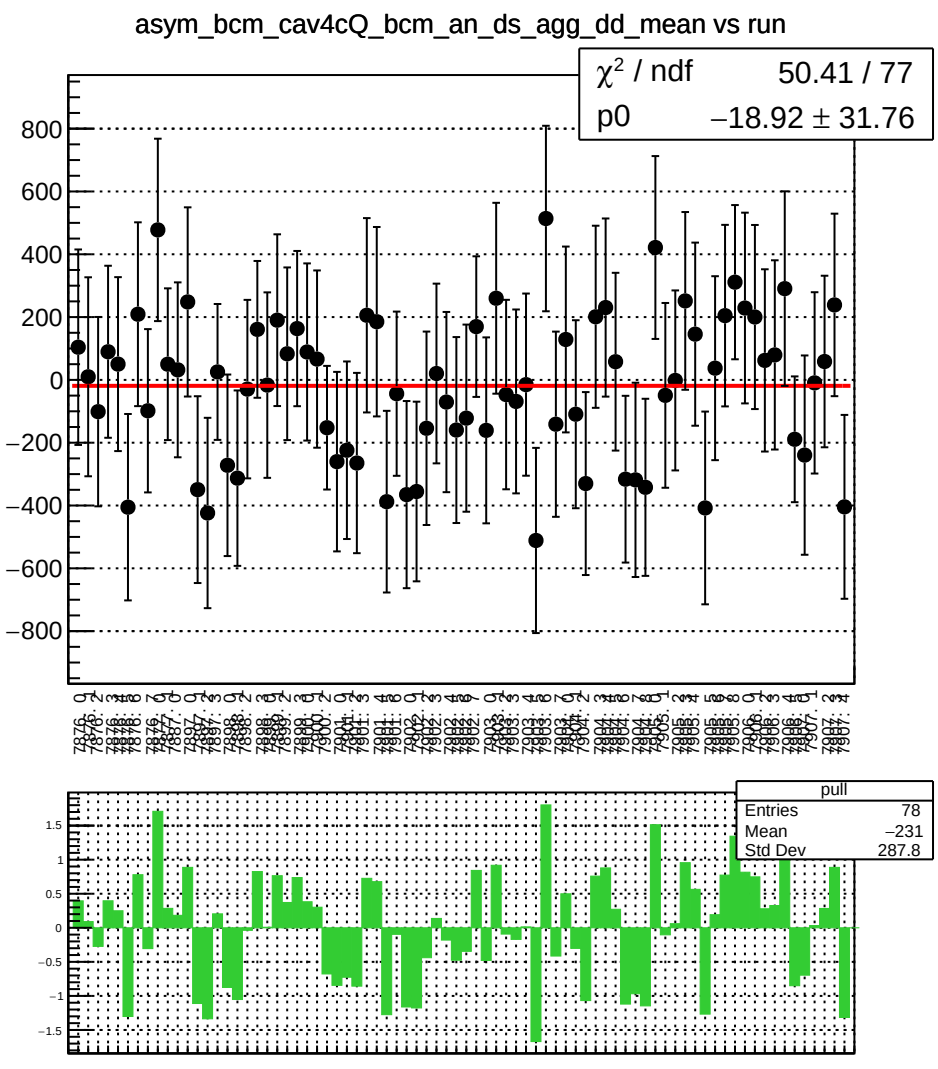

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3948 / 77
p0 144.3 ± 0.1173
170
160
150
140
130

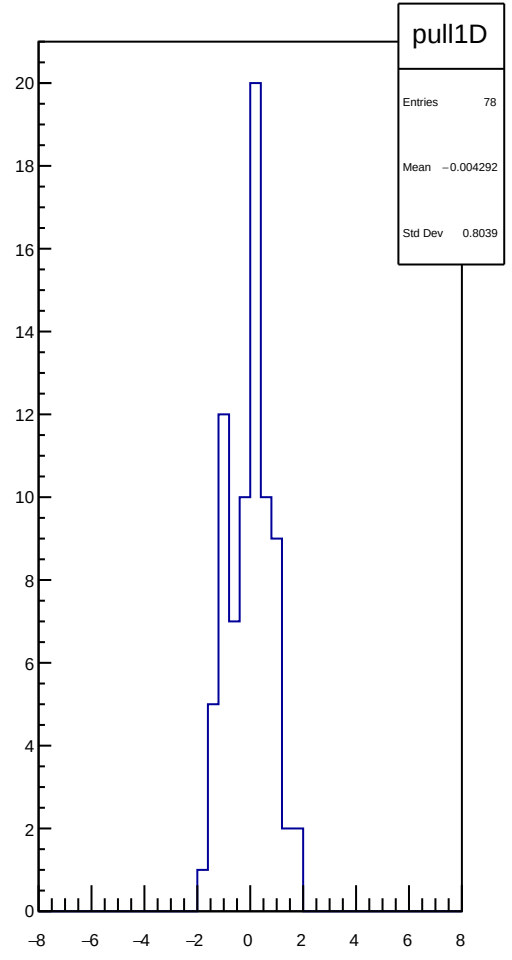

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 57.76 / 77
p0 −22 ± 32.37
1000
500
0
−500
−1000
pull
Entries 78
Mean 202.9
Std Dev 211.2
pull1D
Entries 78
Mean −0.00336
Std Dev 0.8605

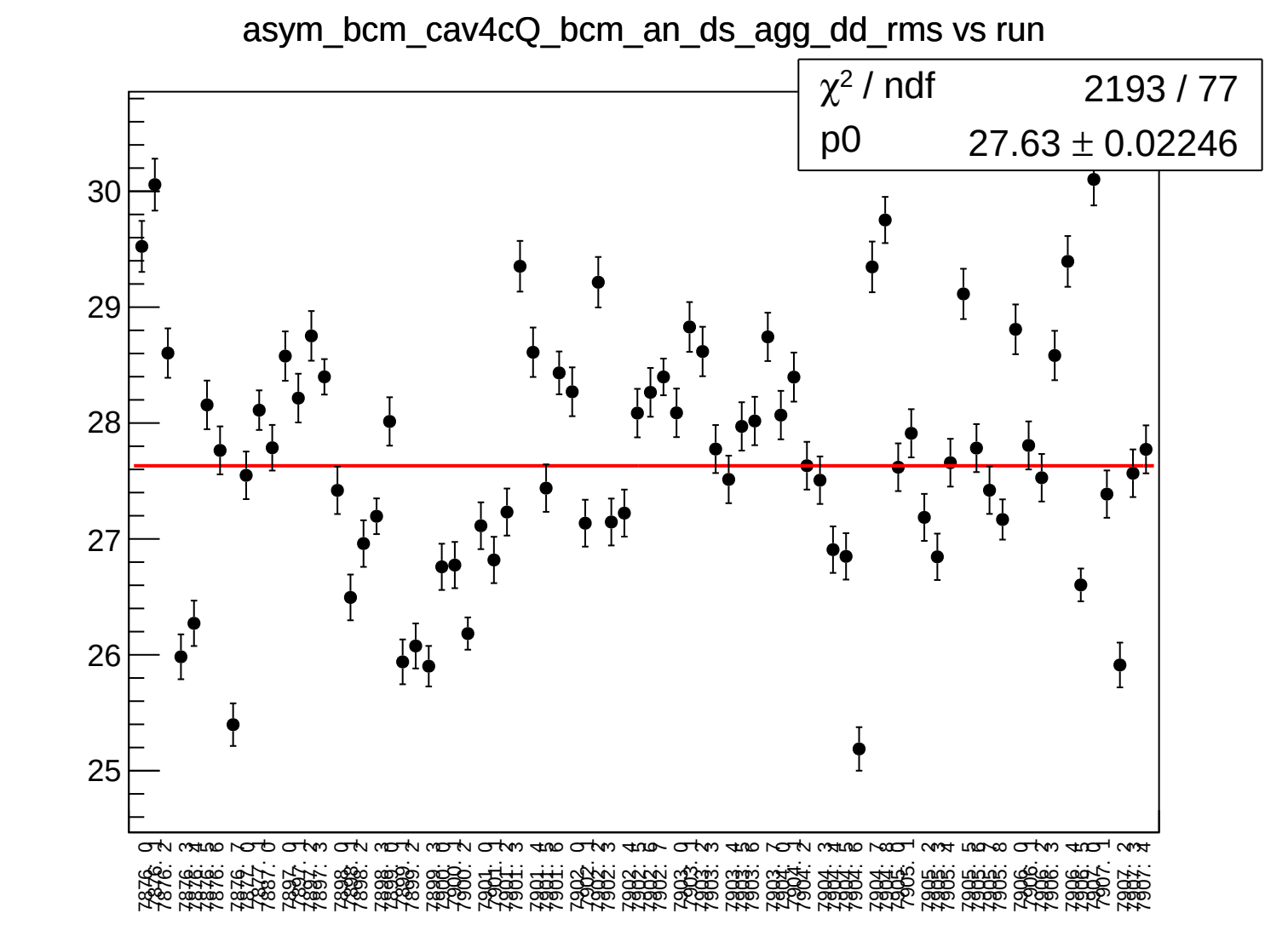

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2169 / 77
p0 28.16 ± 0.02289
31
30
29
28
27
26
25

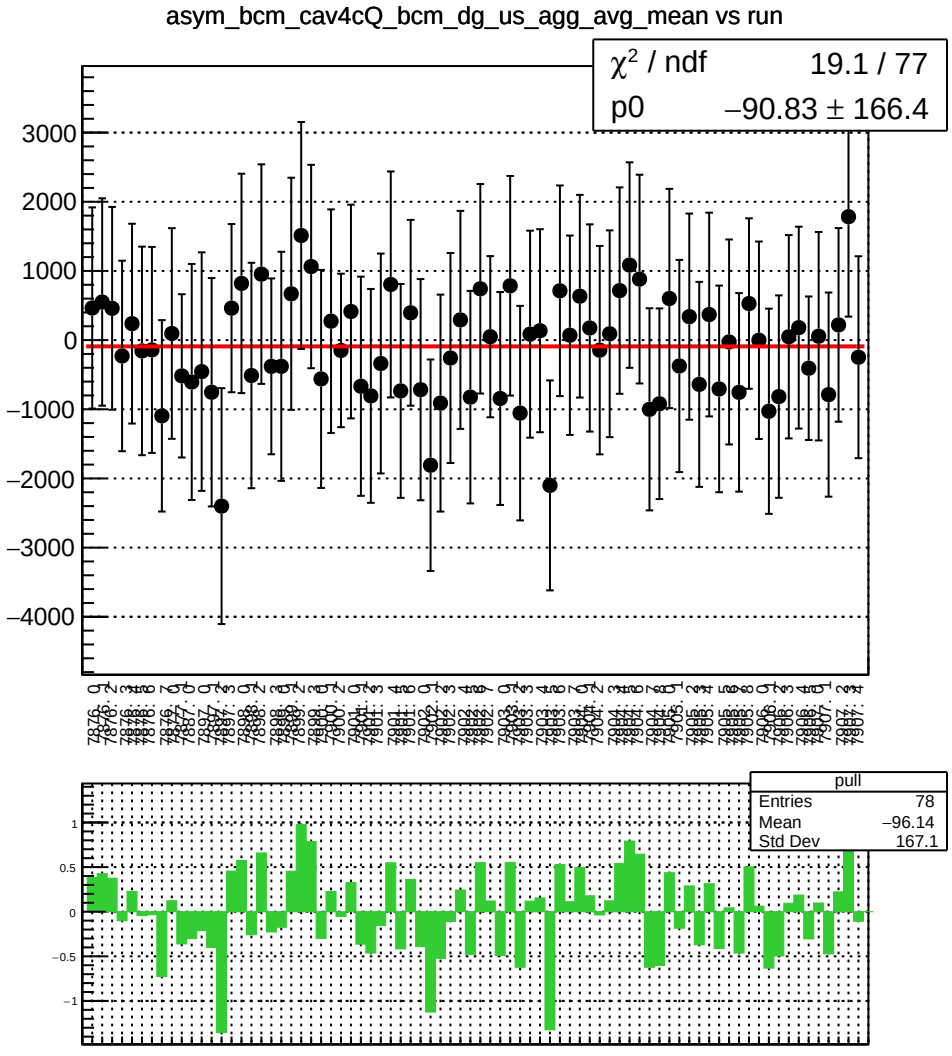

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.58 / 77
p0 −82.64 ± 165.3
pull
Entries 78
Mean 670.7
Std Dev 652.3
pull1D
Entries 78
Mean −0.0006361
Std Dev 0.4881

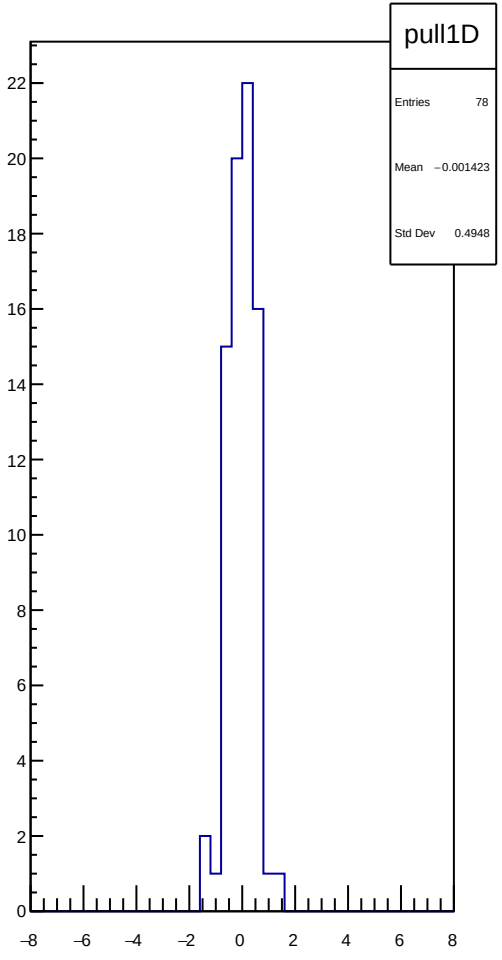

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4018 / 77
p0 143.7 ± 0.1169
170
160
150
140
130

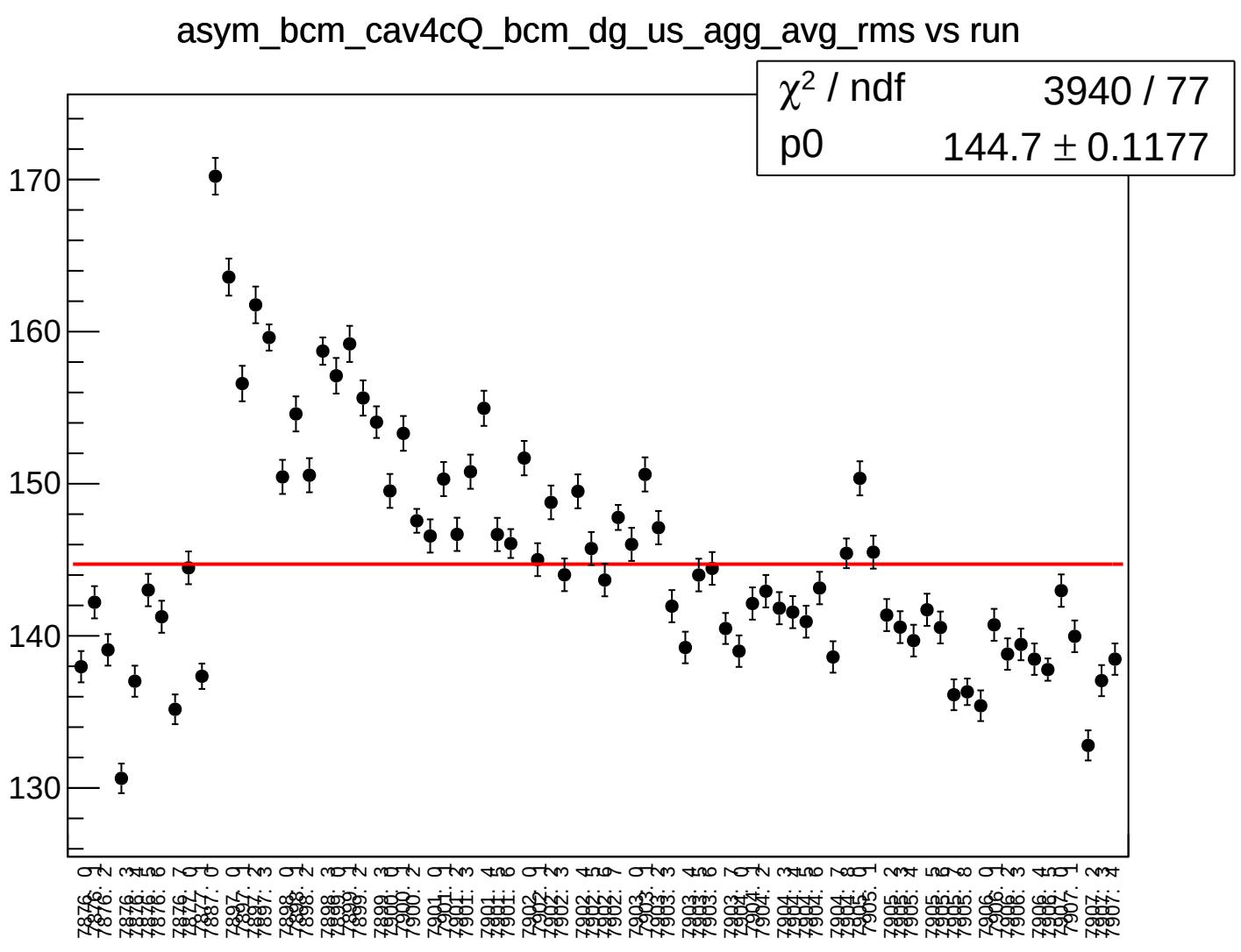

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 50.41 / 77
p0 −18.92 ± 31.76
pull
Entries 78
Mean −231
Std Dev 287.8

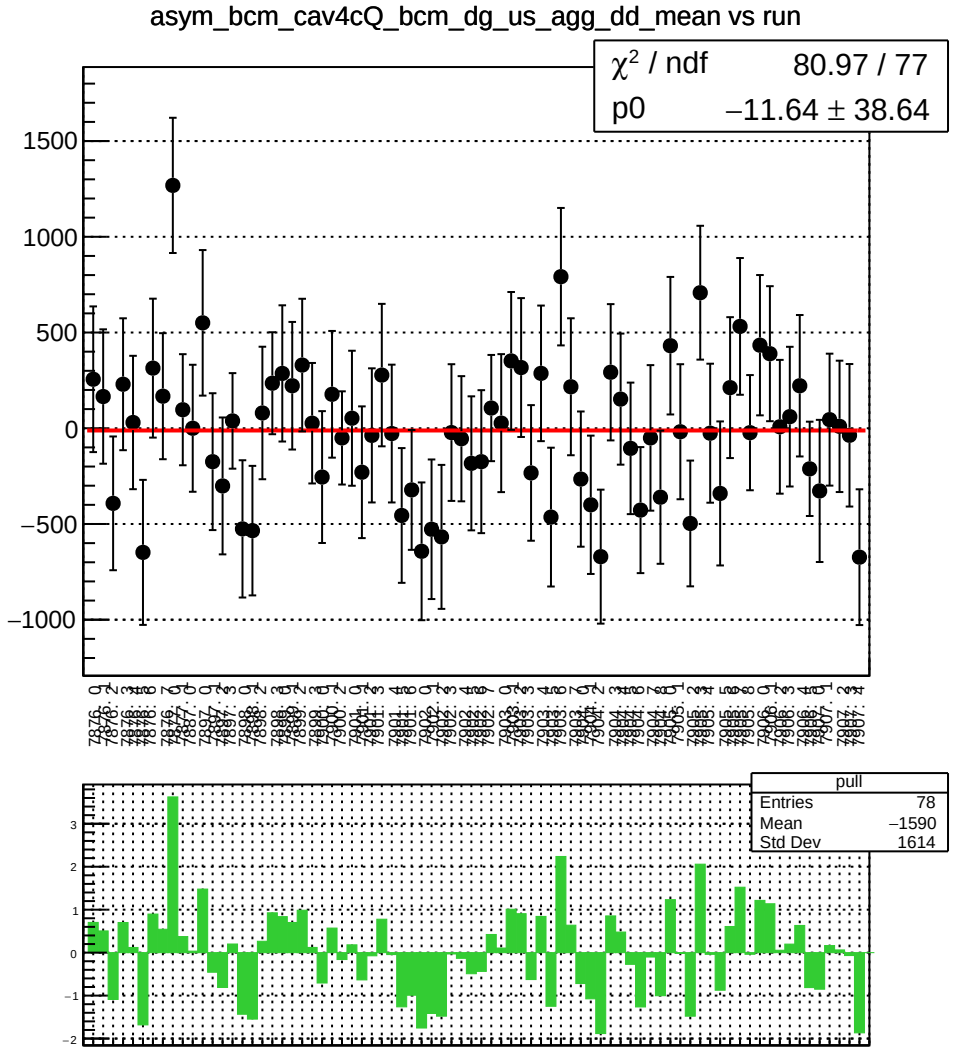

pull1D
Entries 78
Mean −0.004292
Std Dev 0.8039

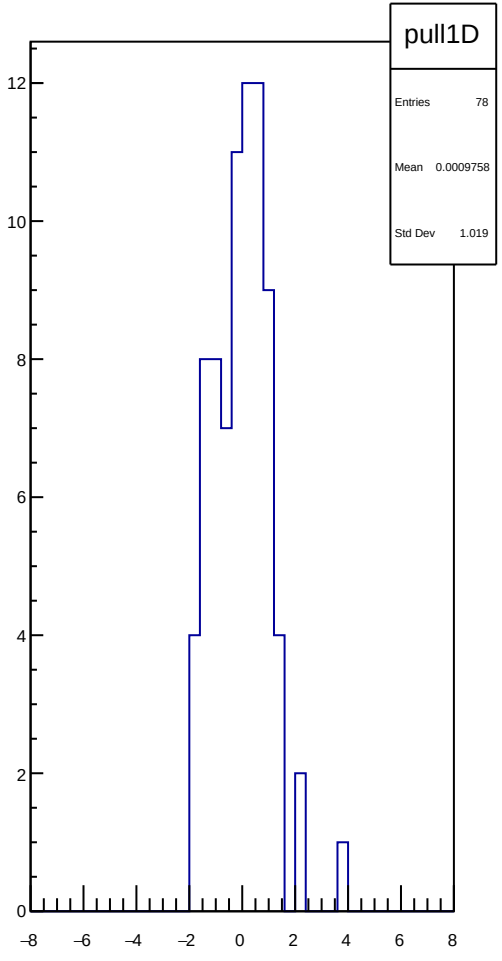

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2193 / 77
p0 27.63 ± 0.02246
30
29
28
27
26
25

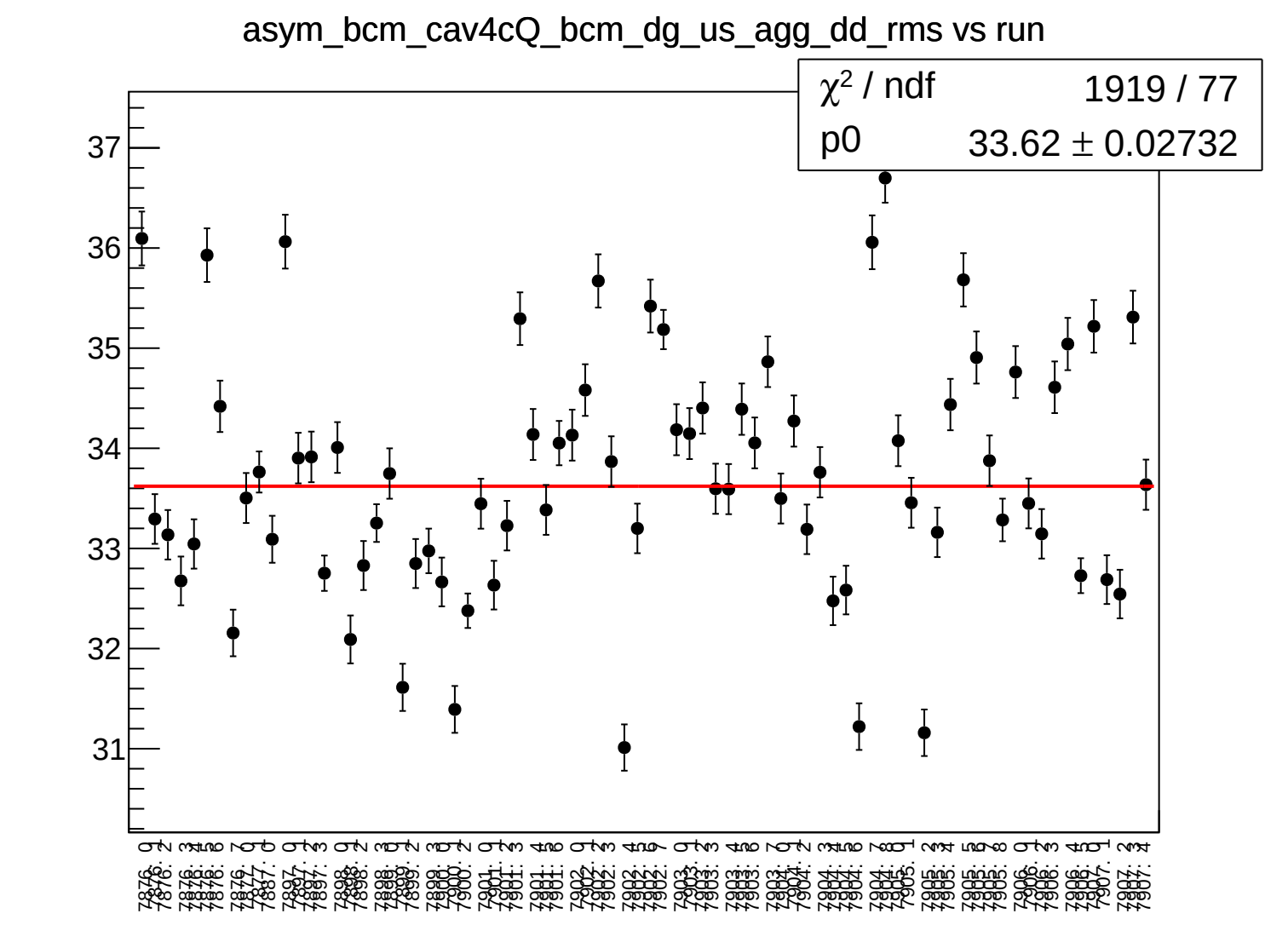

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 19.1 / 77
p0 −90.83 ± 166.4
pull
Entries 78
Mean −96.14
Std Dev 167.1

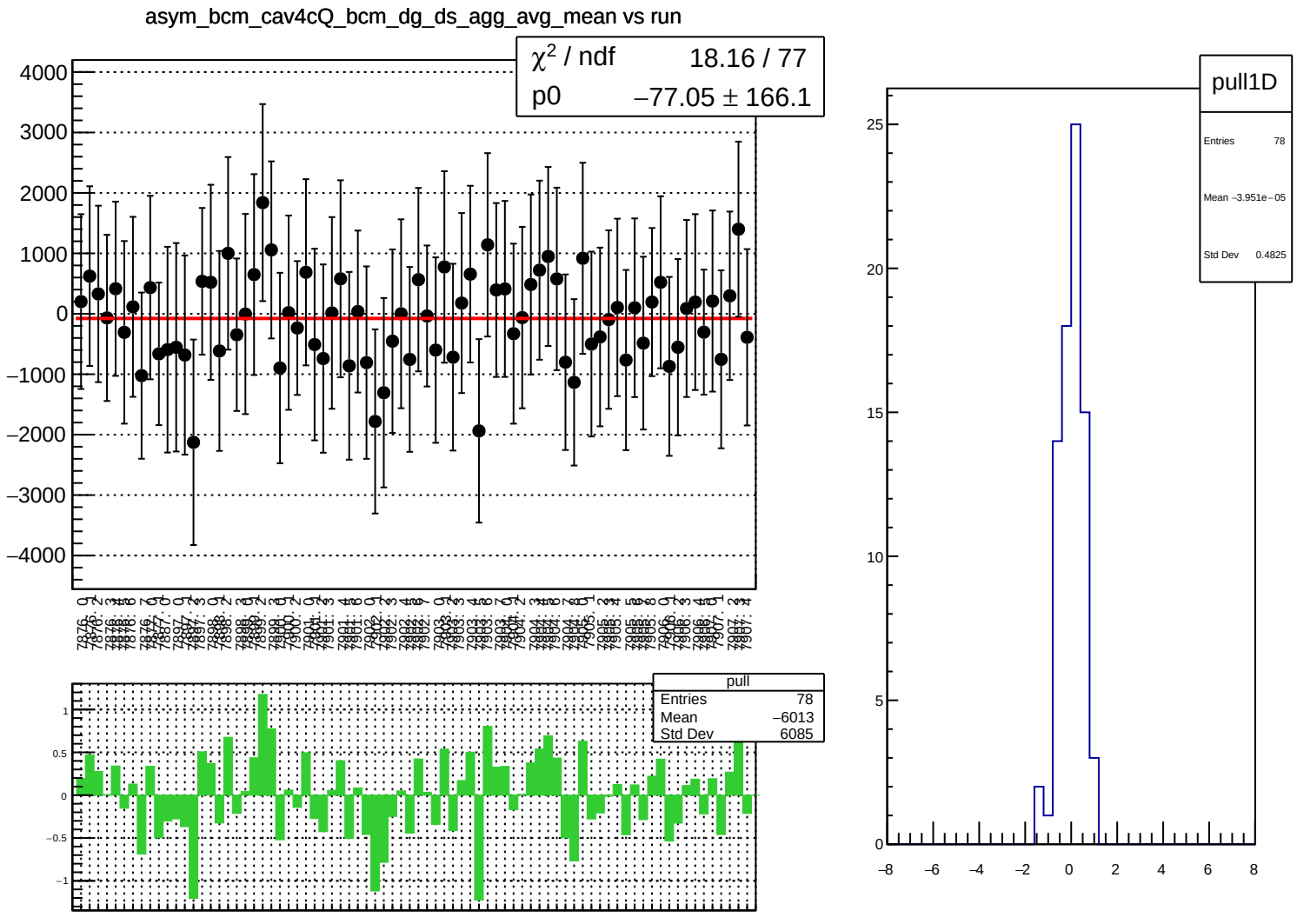

pull1D
Entries 78
Mean −0.001423
Std Dev 0.4948

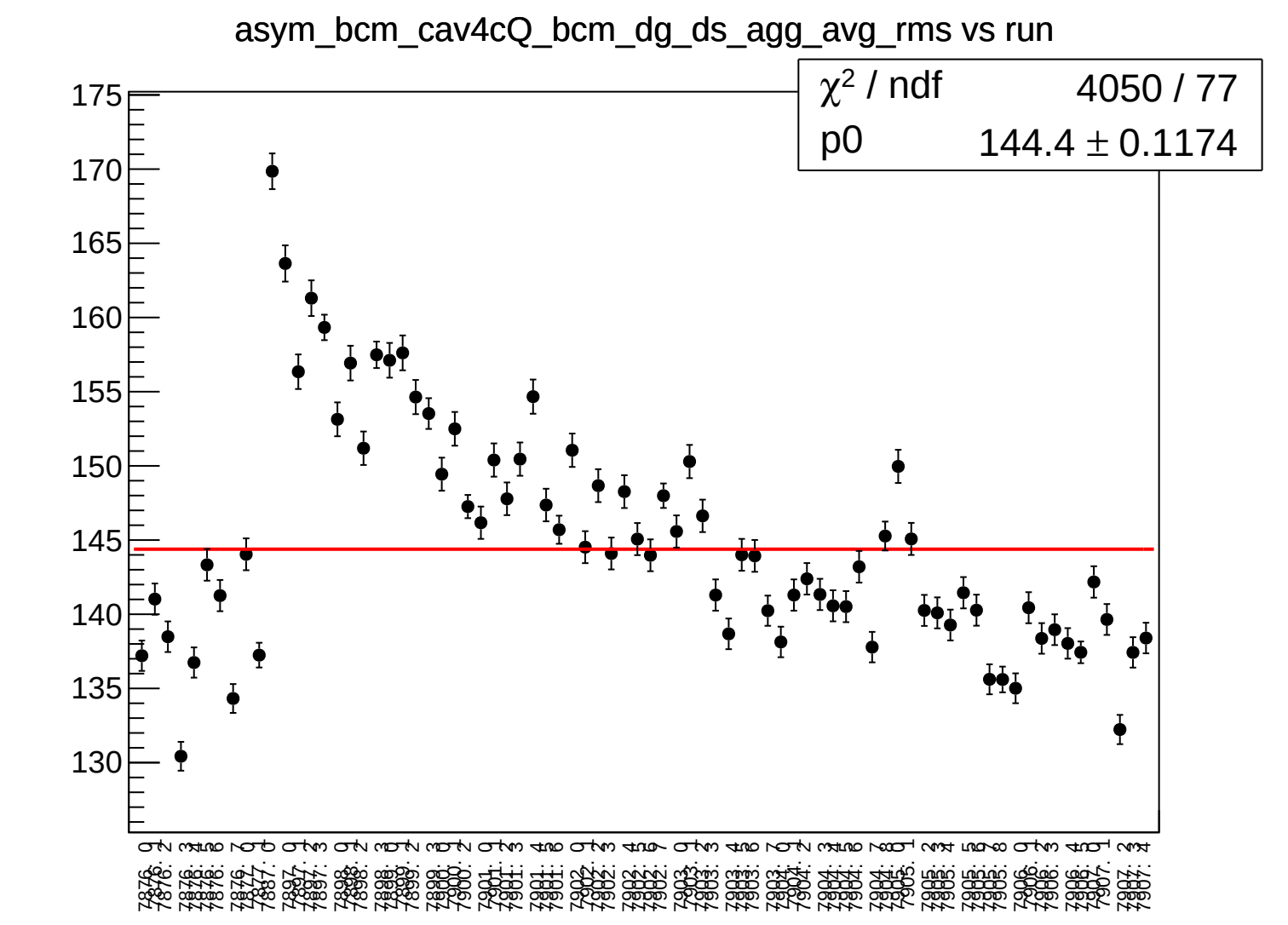

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3940 / 77
p0 144.7 ± 0.1177
170
160
150
140
130

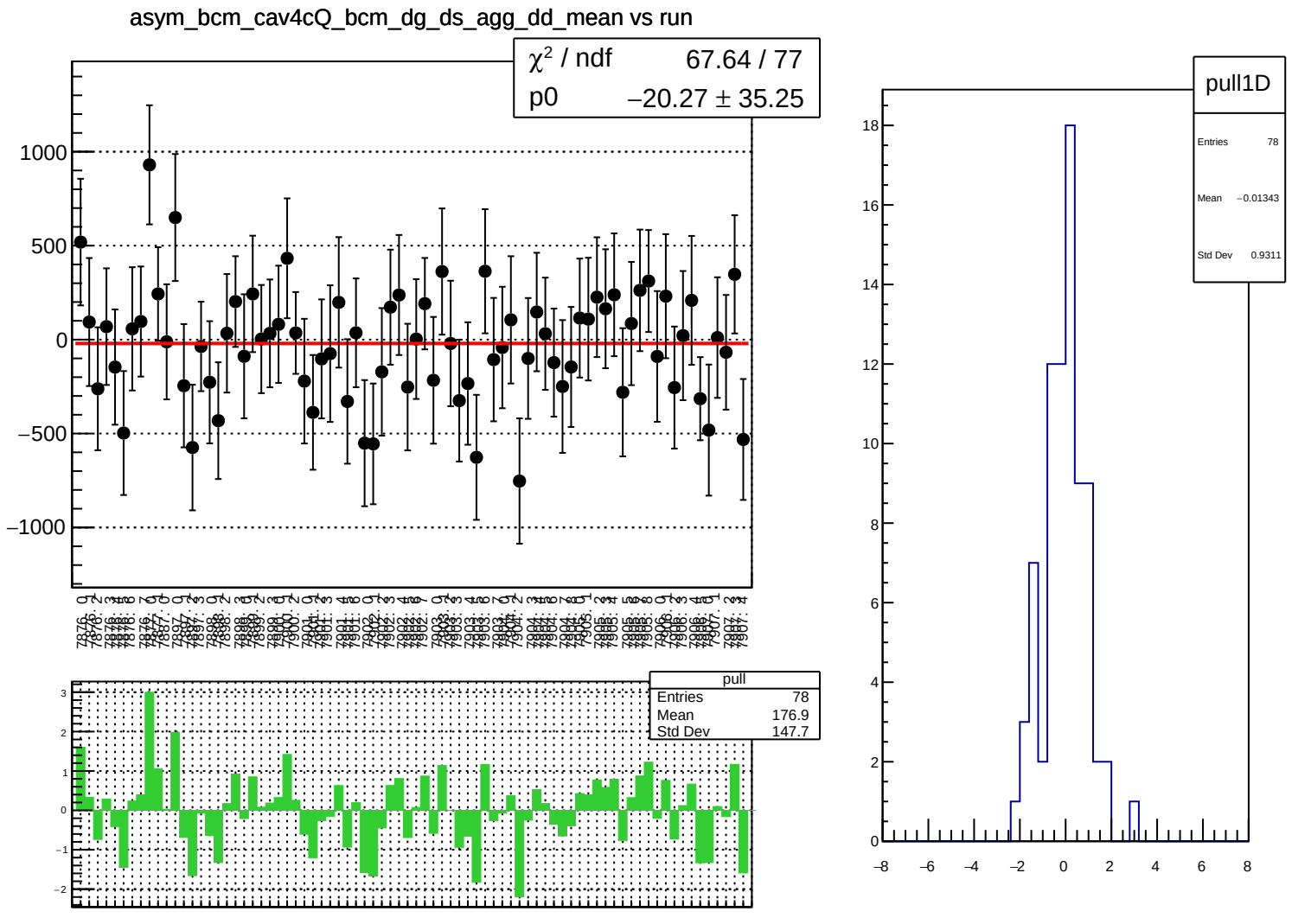

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 80.97 / 77
p0 −11.64 ± 38.64
1500
1000
500
0
−500
−1000
pull
Entries 78
Mean −1590
Std Dev 1614
3
2
1
0
−1
−2

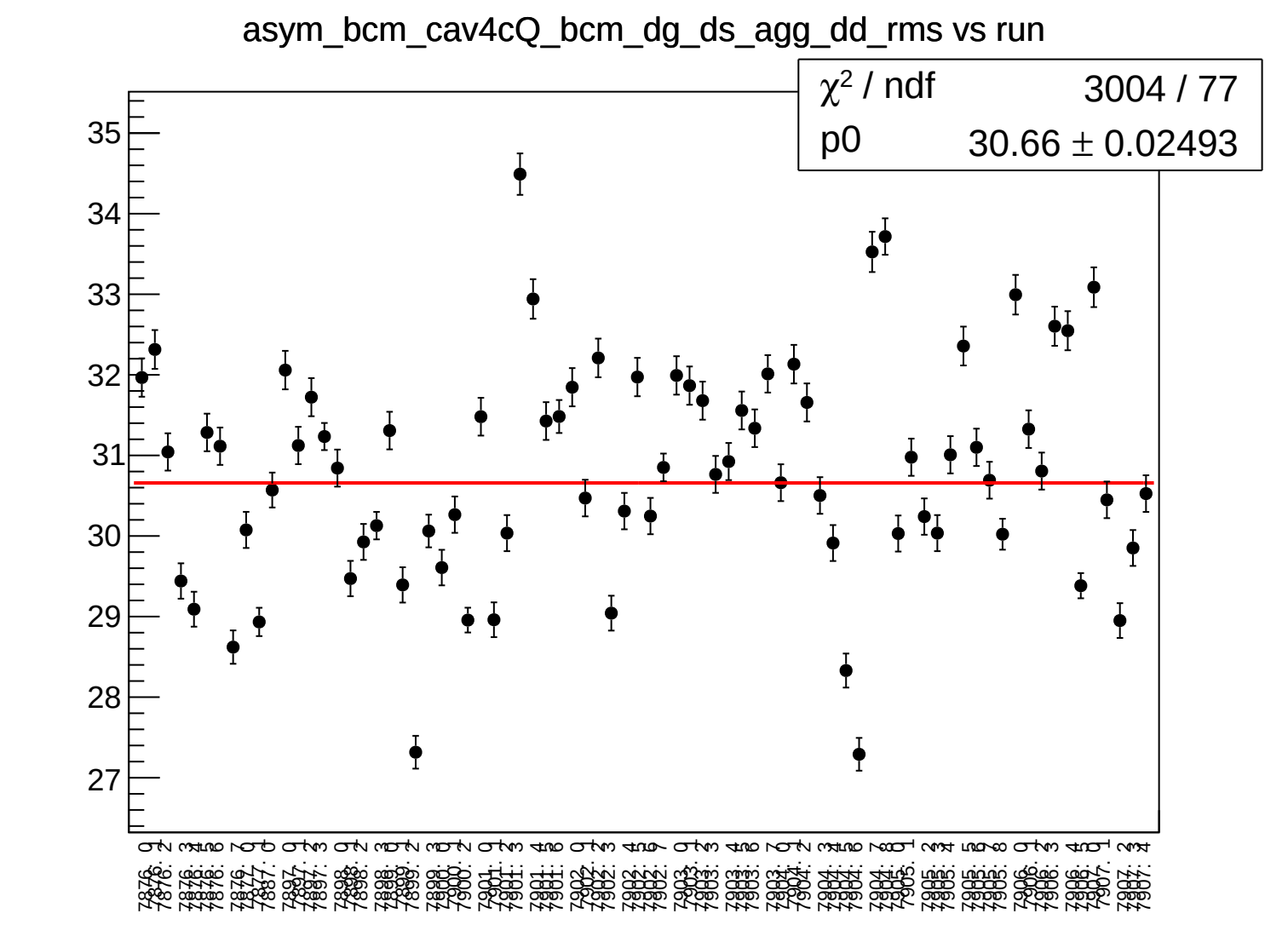

pull1D
Entries 78
Mean 0.0009758
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

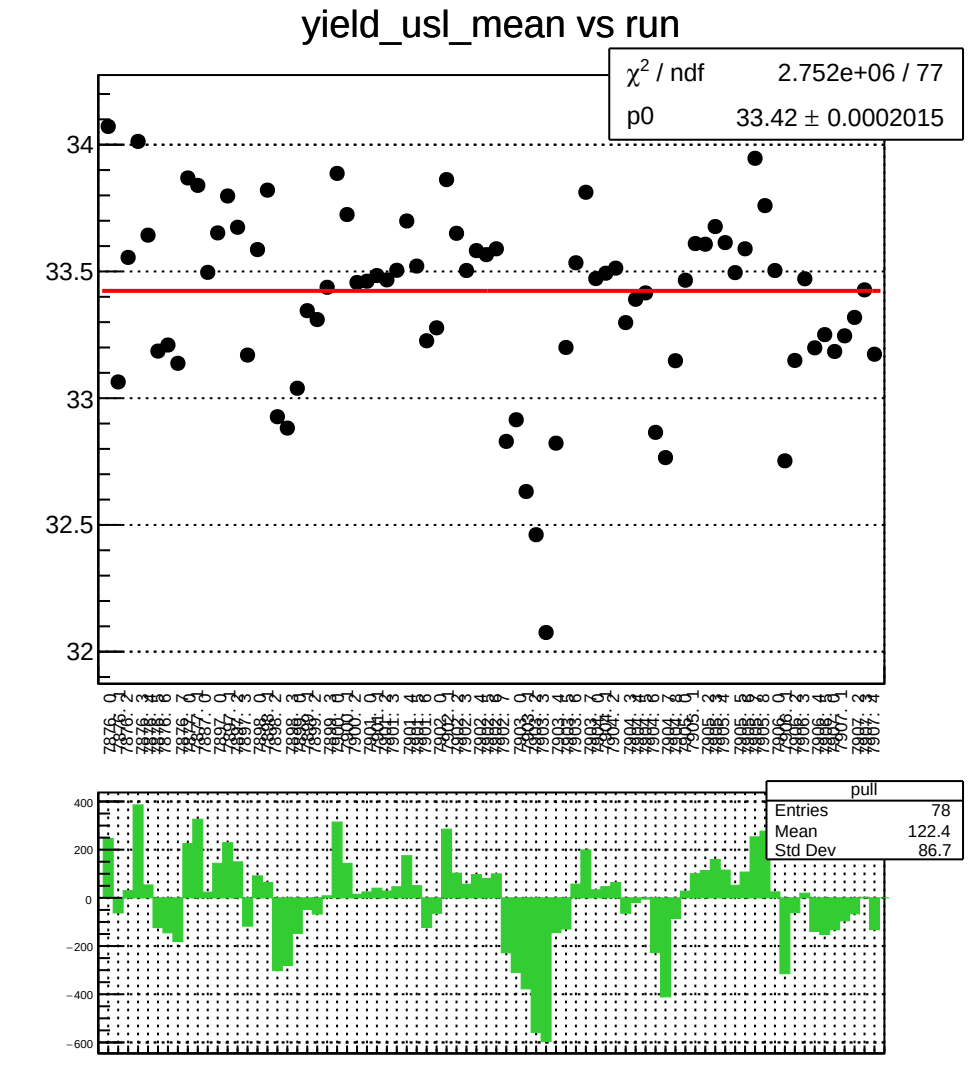

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1919 / 77
p0 33.62 ± 0.02732
37
36
35
34
33
32
31

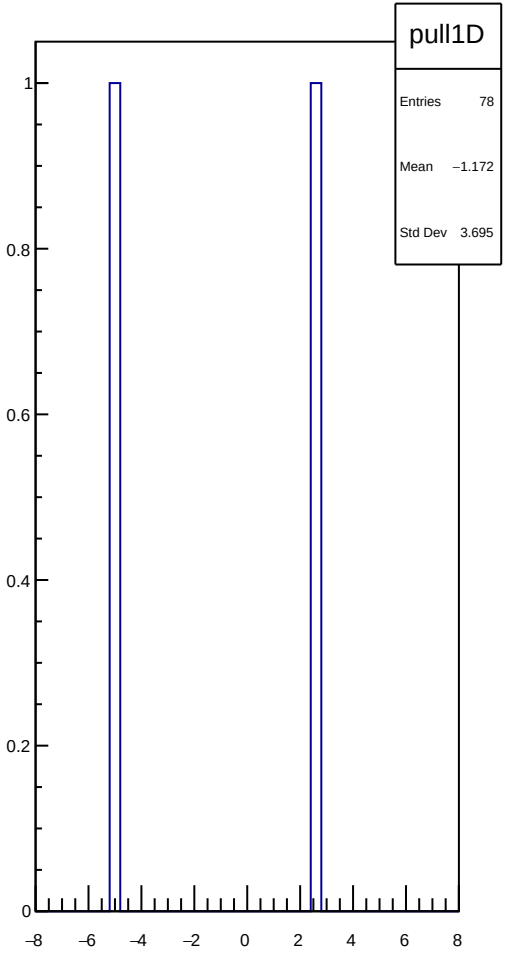

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 18.16 / 77
p0 −77.05 ± 166.1
pull
Entries 78
Mean −6013
Std Dev 6085
pull1D
Entries 78
Mean −3.951e−05
Std Dev 0.4825

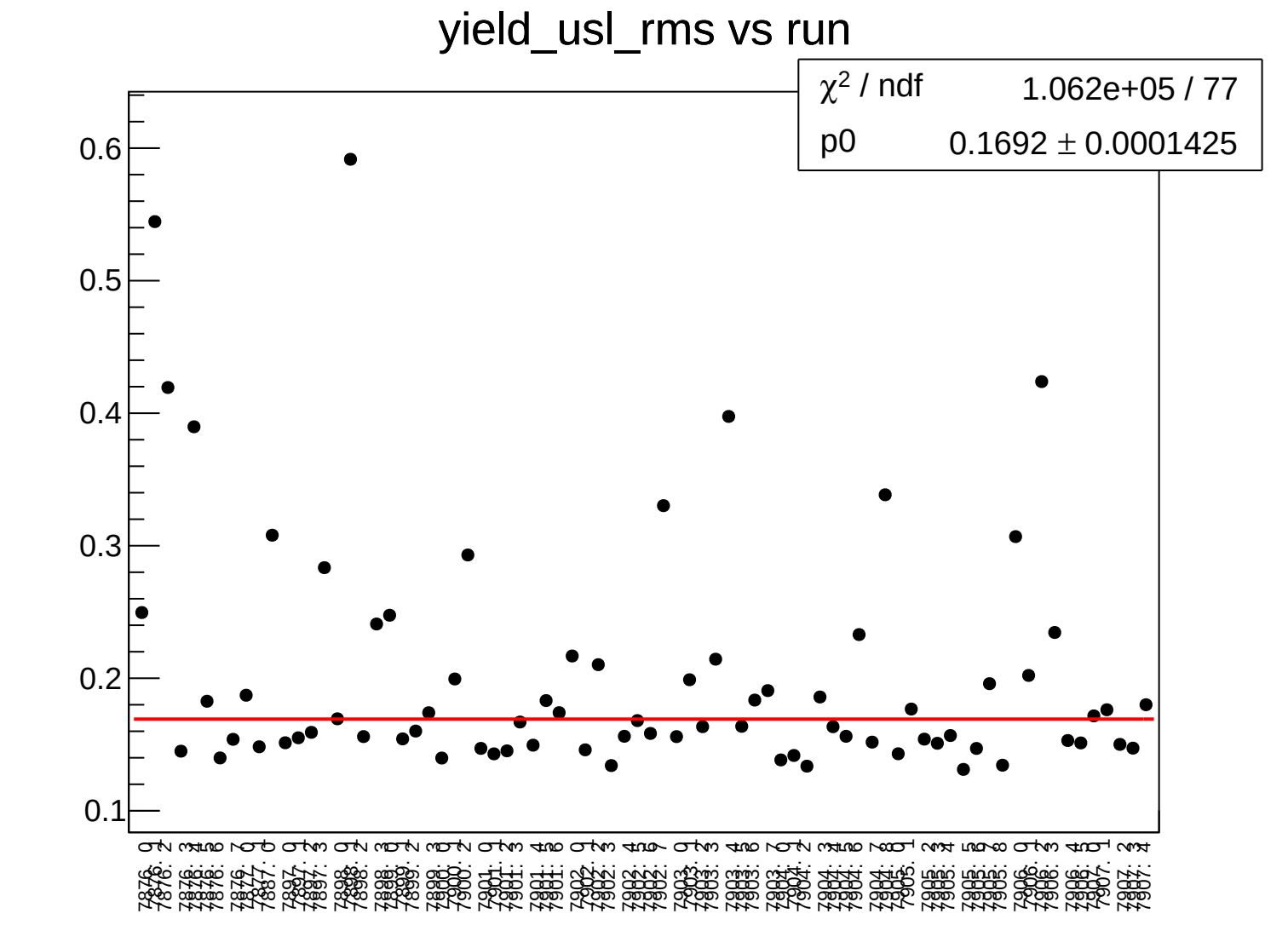

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4050 / 77
p0 144.4 ± 0.1174
175
170
165
160
155
150
145
140
135
130

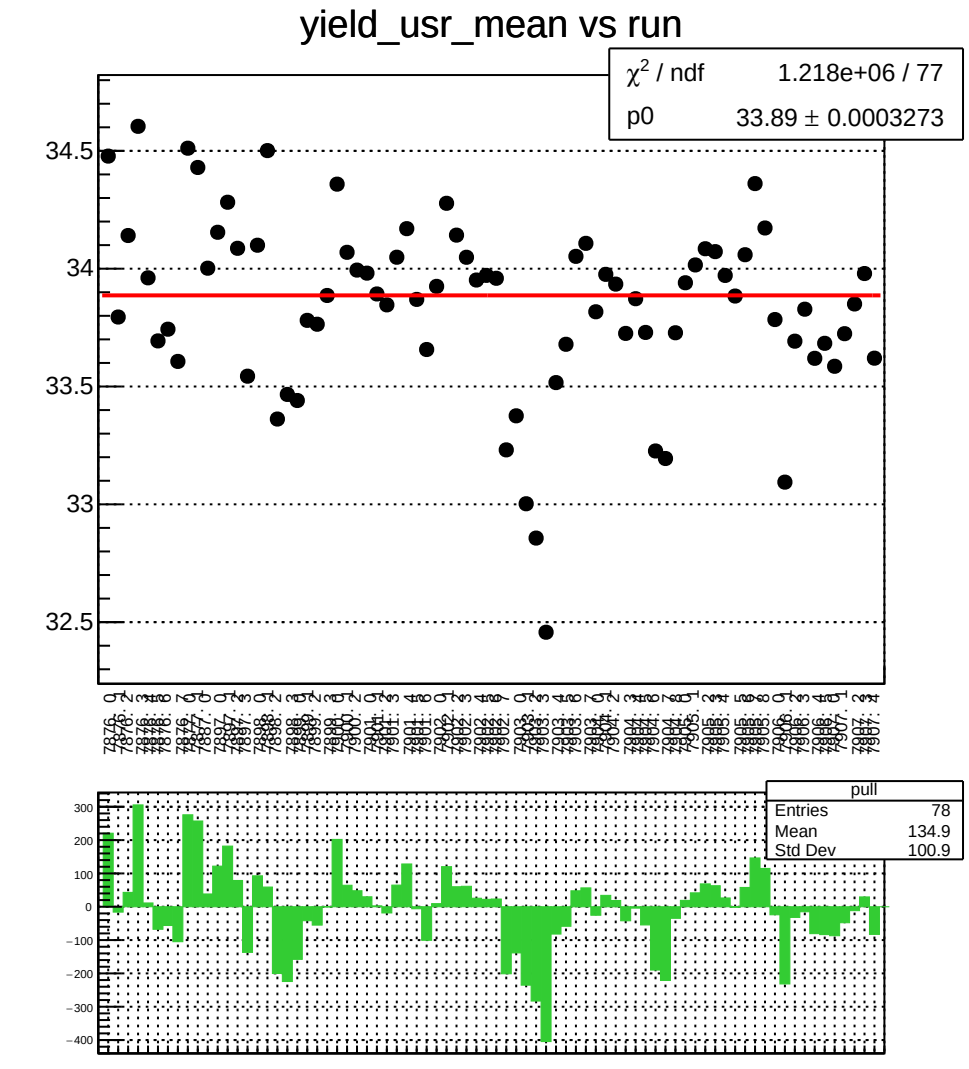

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 67.64 / 77
p0 −20.27 ± 35.25
1000
500
0
−500
−1000
pull
Entries 78
Mean 176.9
Std Dev 147.7
3
2
1
0
−1
−2
pull1D
Entries 78
Mean −0.01343
Std Dev 0.9311
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

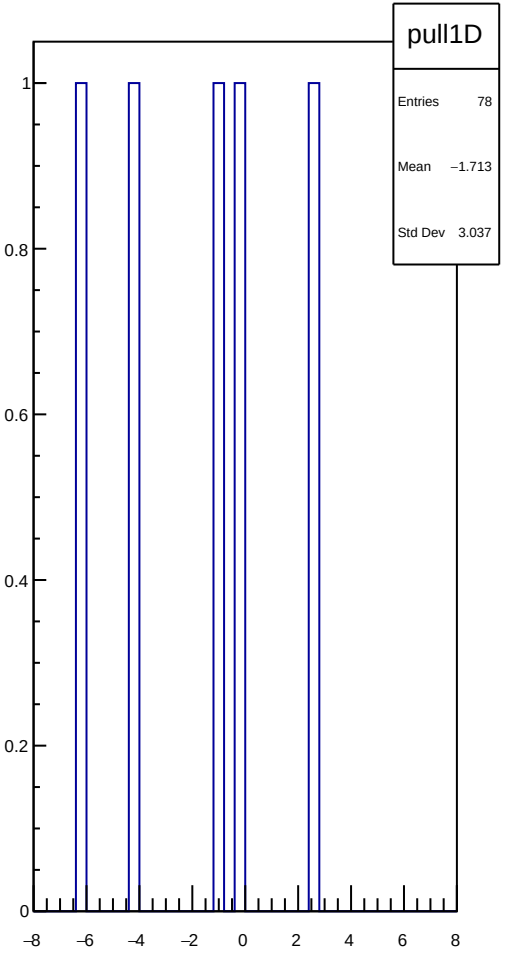

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3004 / 77
p0 30.66 ± 0.02493
35
34
33
32
31
30
29
28
27

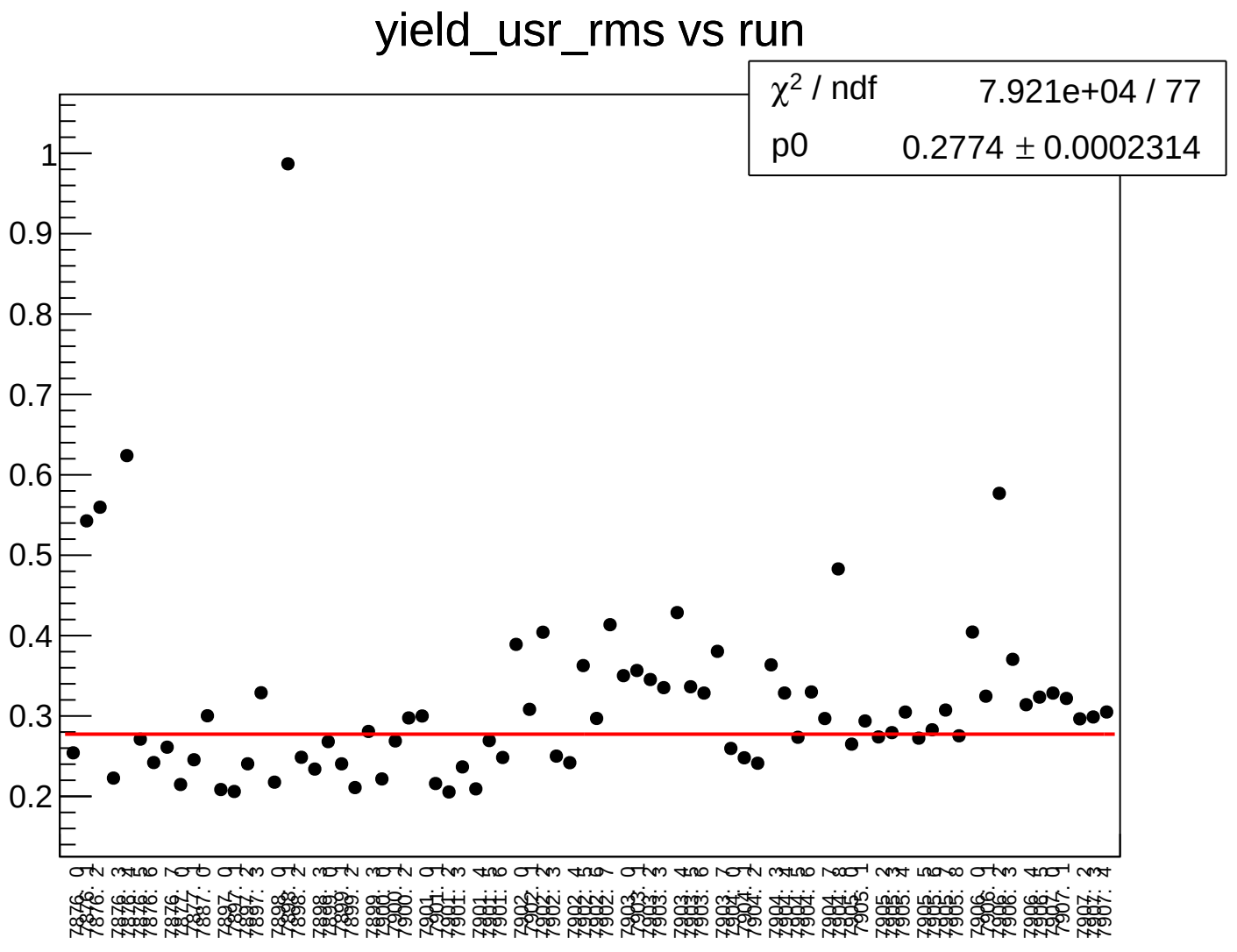

yield_usl_mean vs run
χ² / ndf 2.752e+06 / 77
p0 33.42 ± 0.0002015
34
33.5
33
32.5
32
pull
Entries 78
Mean 122.4
Std Dev 86.7
400
200
0
−200
−400
−600

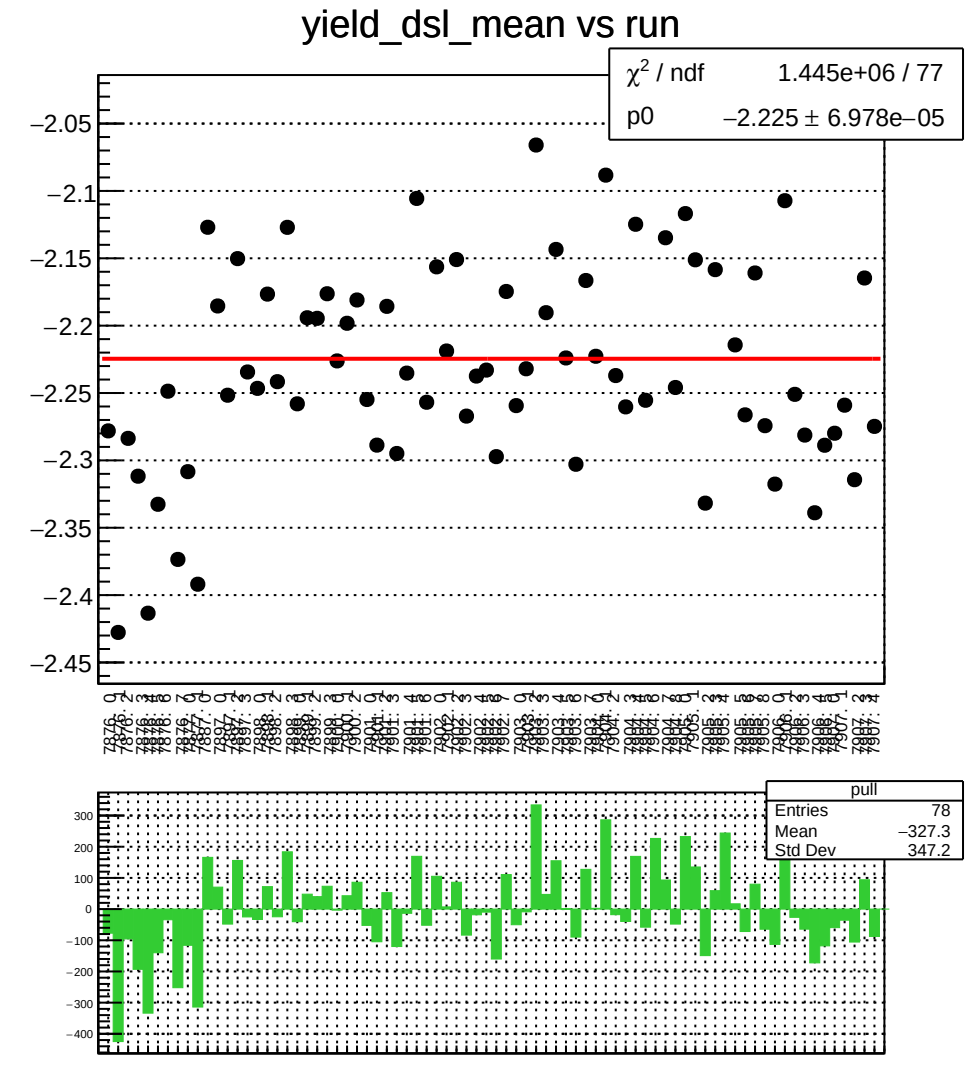

pull1D
Entries 78
Mean −1.172
Std Dev 3.695
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

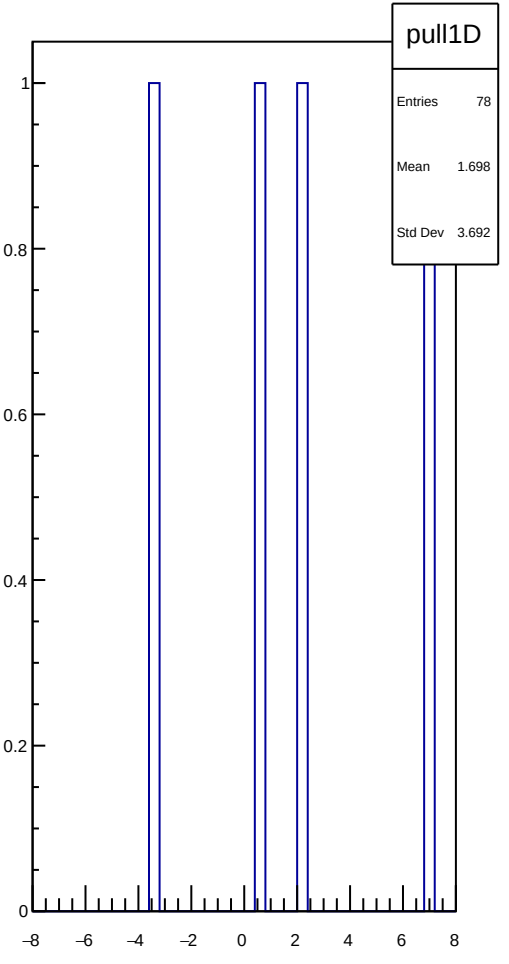

yield_usl_rms vs run
χ² / ndf 1.062e+05 / 77
p0 0.1692 ± 0.0001425
0.6
0.5
0.4
0.3
0.2
0.1

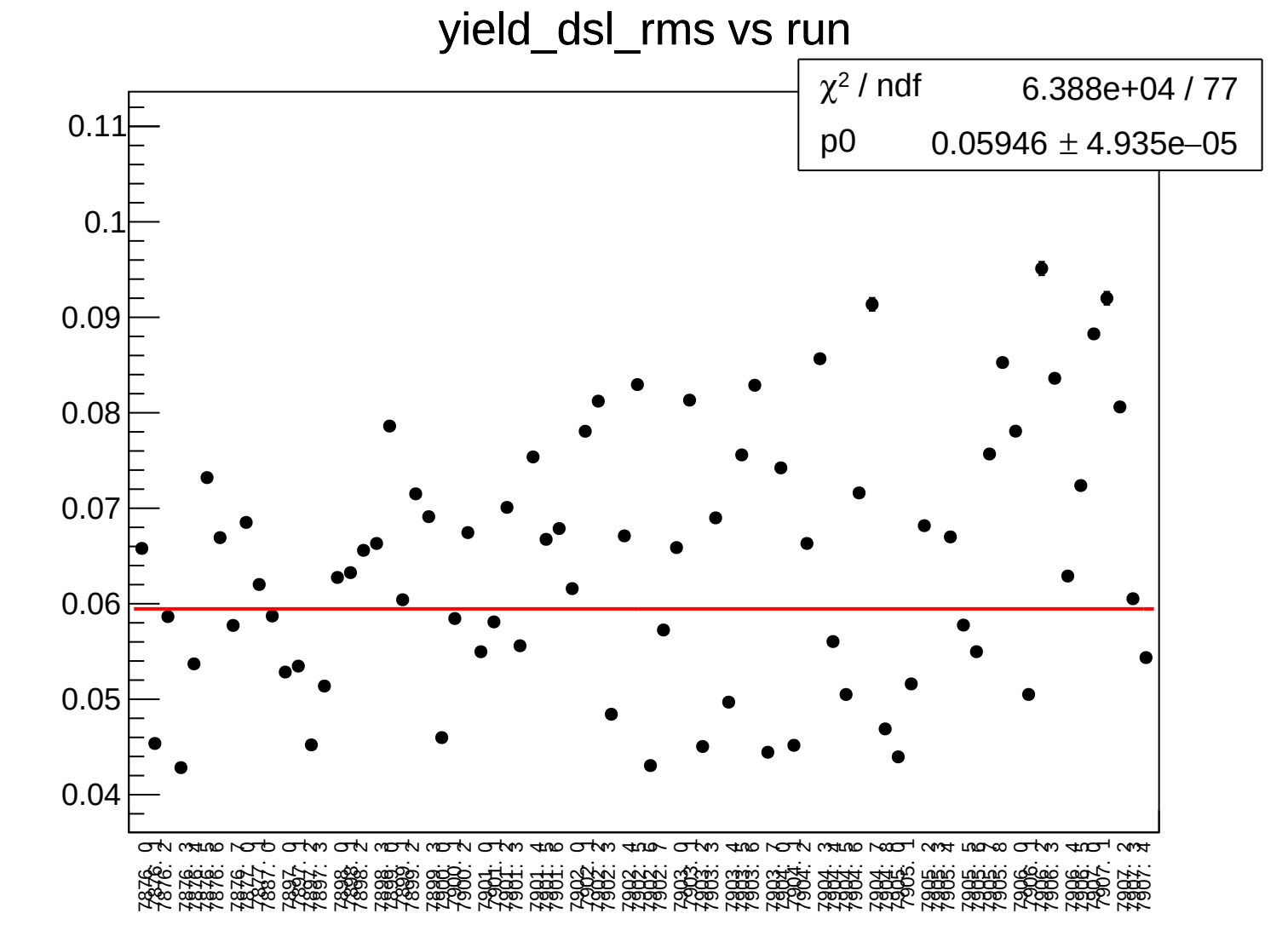

yield_usr_mean vs run
χ² / ndf 1.218e+06 / 77
p0 33.89 ± 0.0003273
34.5
34
33.5
33
32.5
pull
Entries 78
Mean 134.9
Std Dev 100.9
300
200
100
0
−100
−200
−300
−400

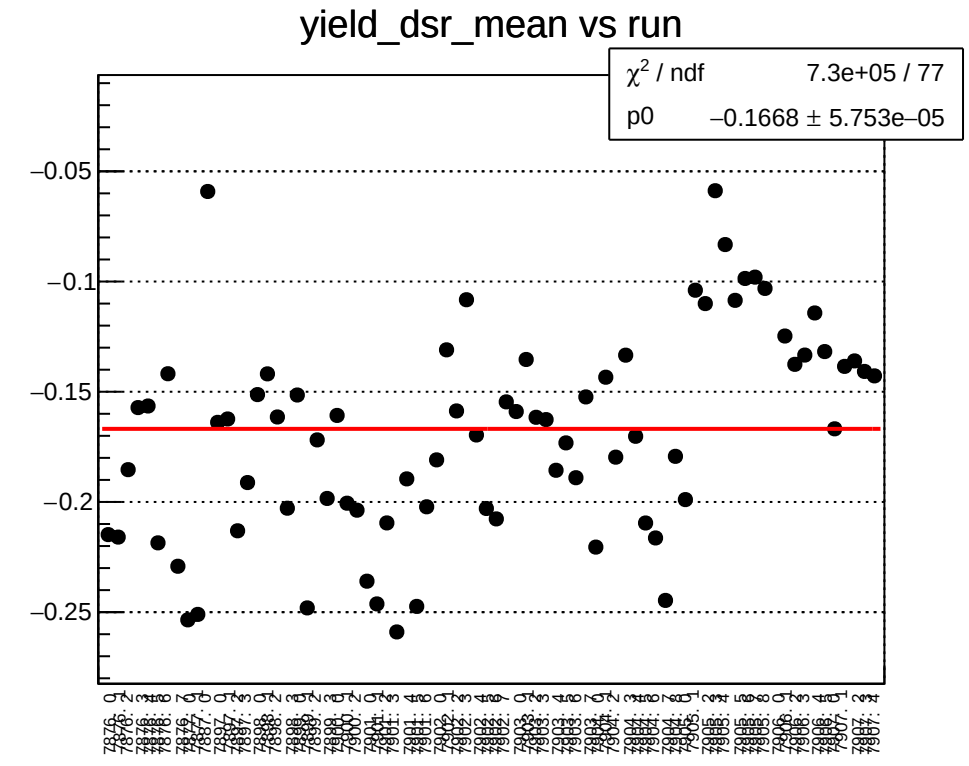

pull1D
Entries 78
Mean −1.713
Std Dev 3.037
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

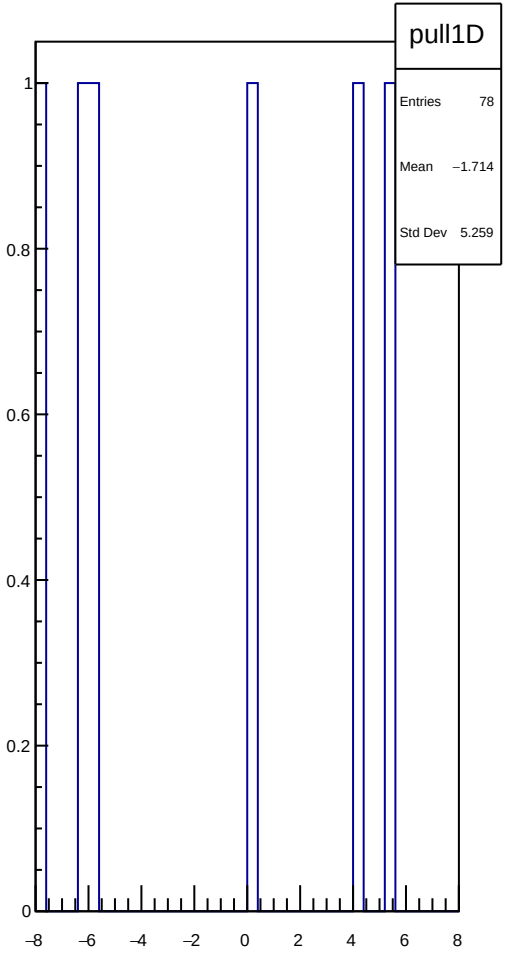

yield_usr_rms vs run
χ² / ndf 7.921e+04 / 77
p0 0.2774 ± 0.0002314
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

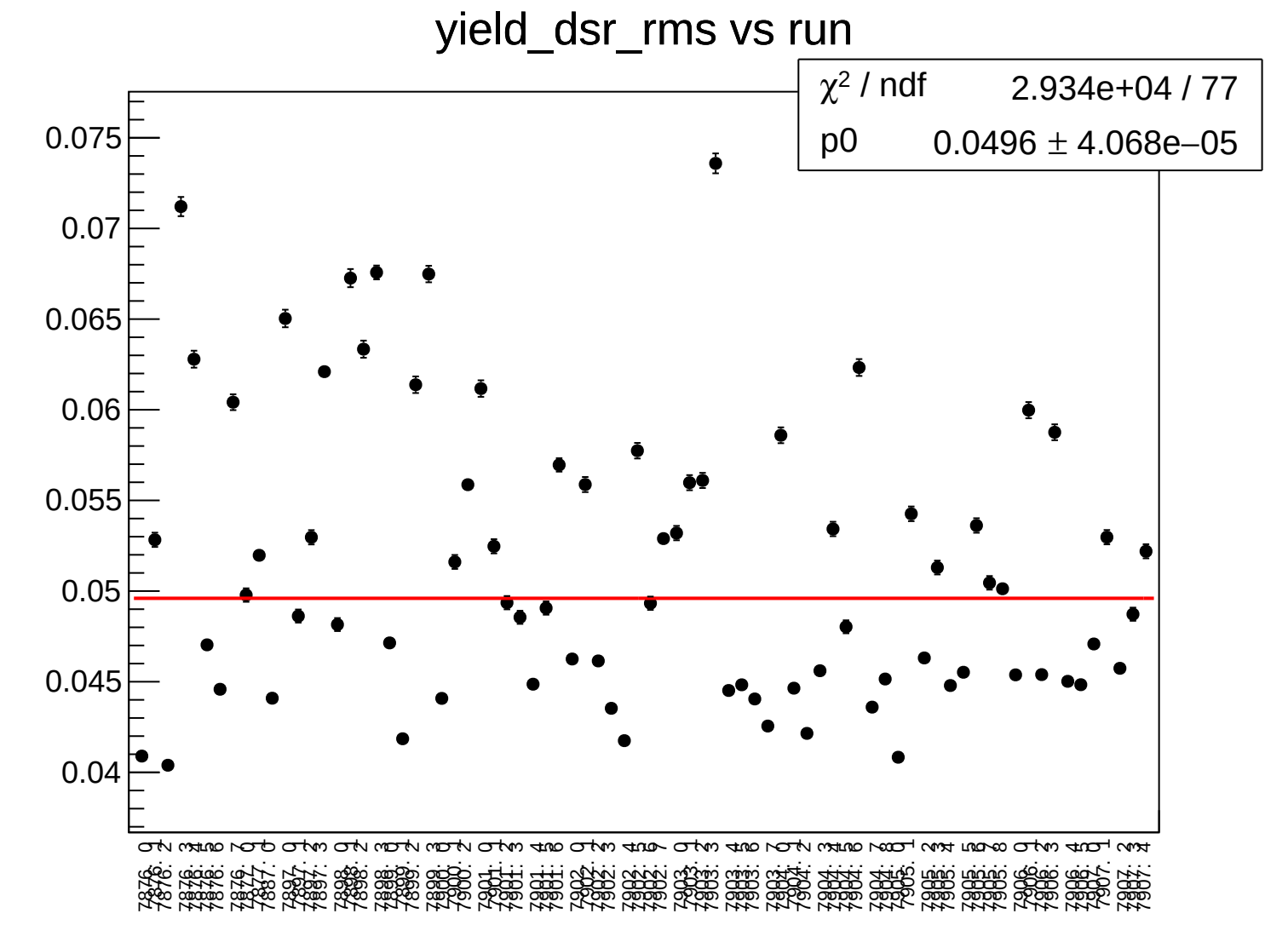

yield_dsl_mean vs run
χ² / ndf 1.445e+06 / 77
p0 −2.225 ± 6.978e−05
−2.05
−2.1
−2.15
−2.2
−2.25
−2.3
−2.35
−2.4
−2.45
pull
Entries 78
Mean −327.3
Std Dev 347.2
300
200
100
0
−100
−200
−300
−400

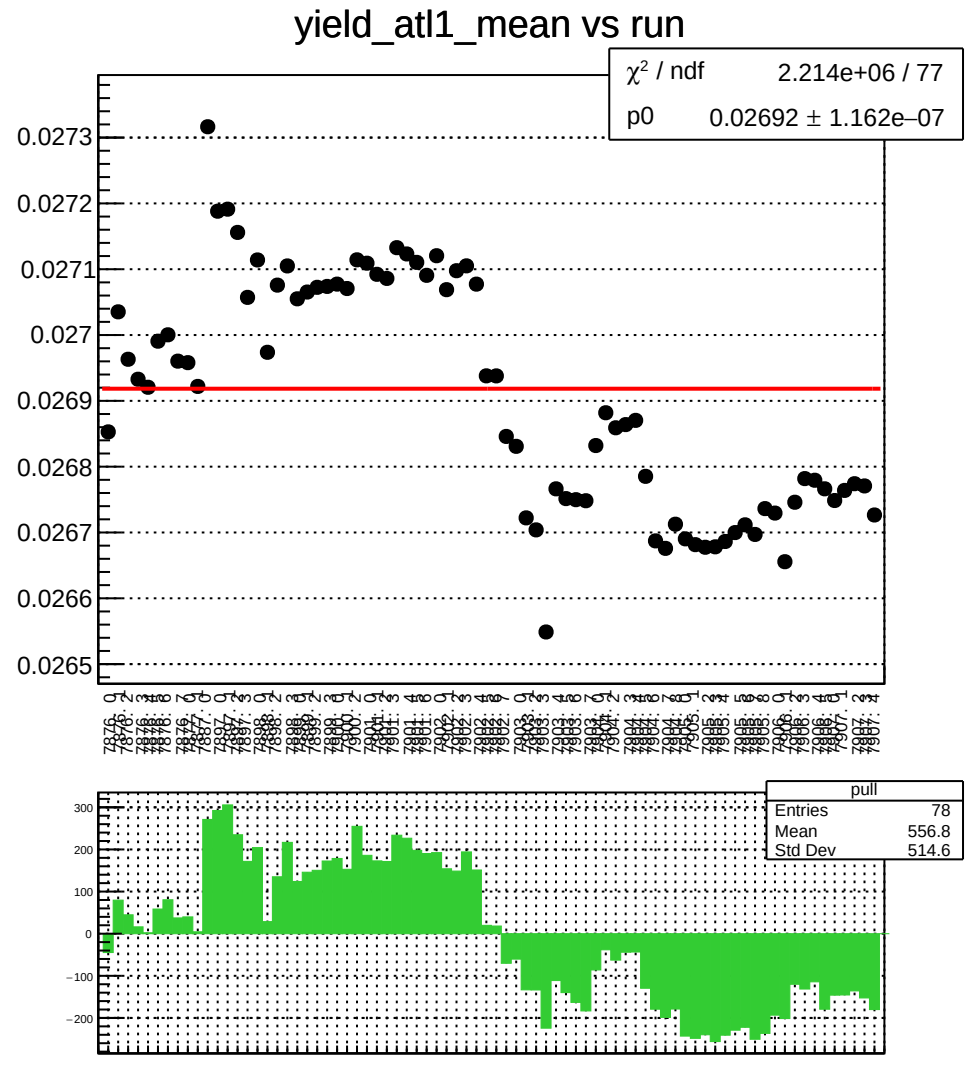

pull1D
Entries 78
Mean 1.698
Std Dev 3.692
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

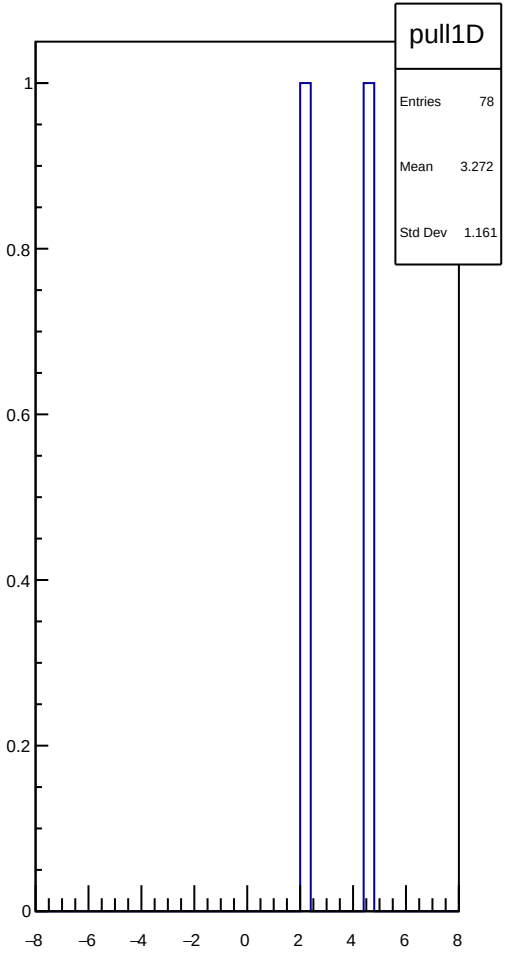

yield_dsl_rms vs run
χ² / ndf 6.388e+04 / 77
p0 0.05946 ± 4.935e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

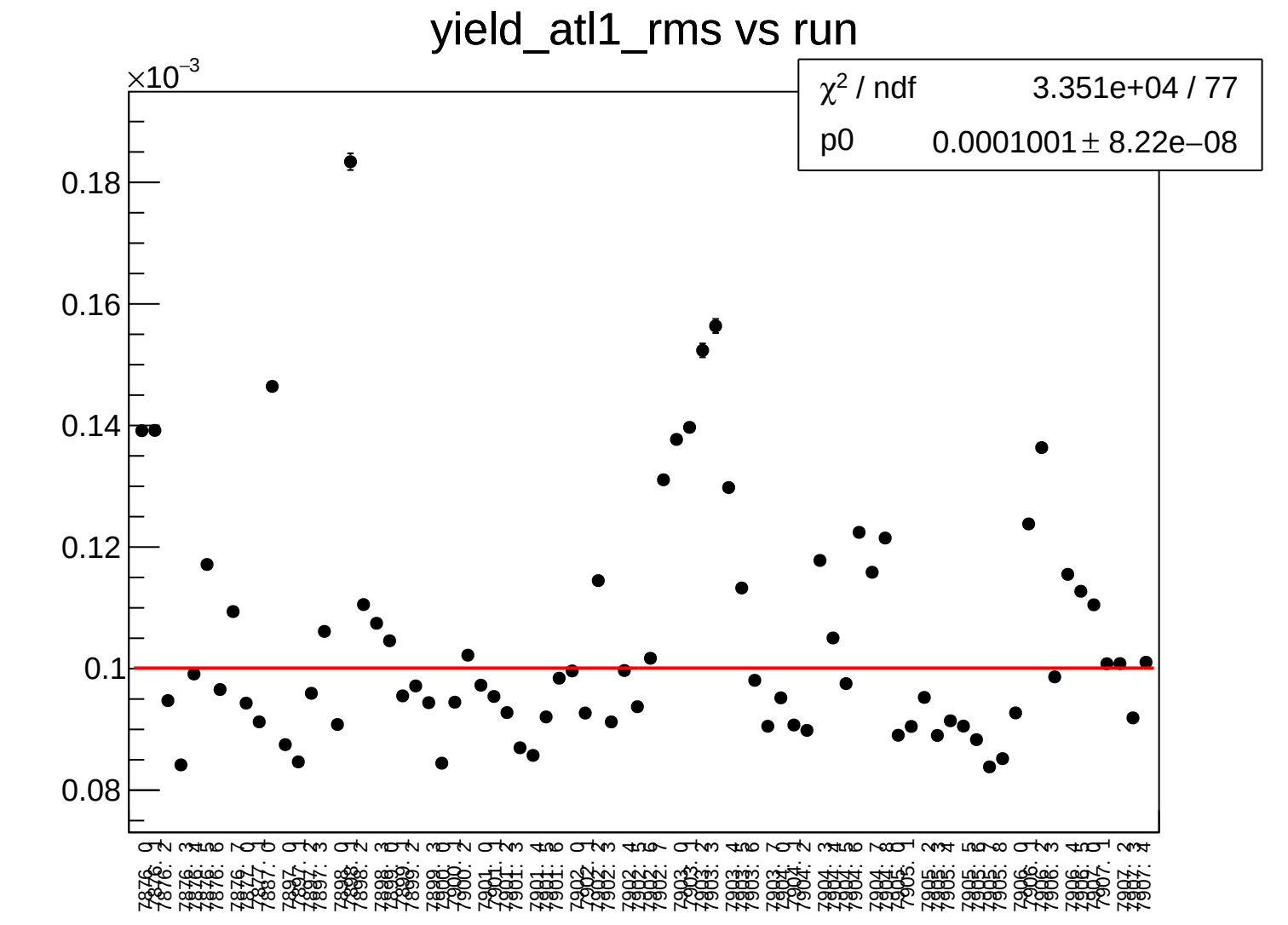

yield_dsr_mean vs run
χ² / ndf 7.3e+05 / 77
p0 −0.1668 ± 5.753e−05
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 78
Mean −1057
Std Dev 1099
300
200
100
0
−100
−200

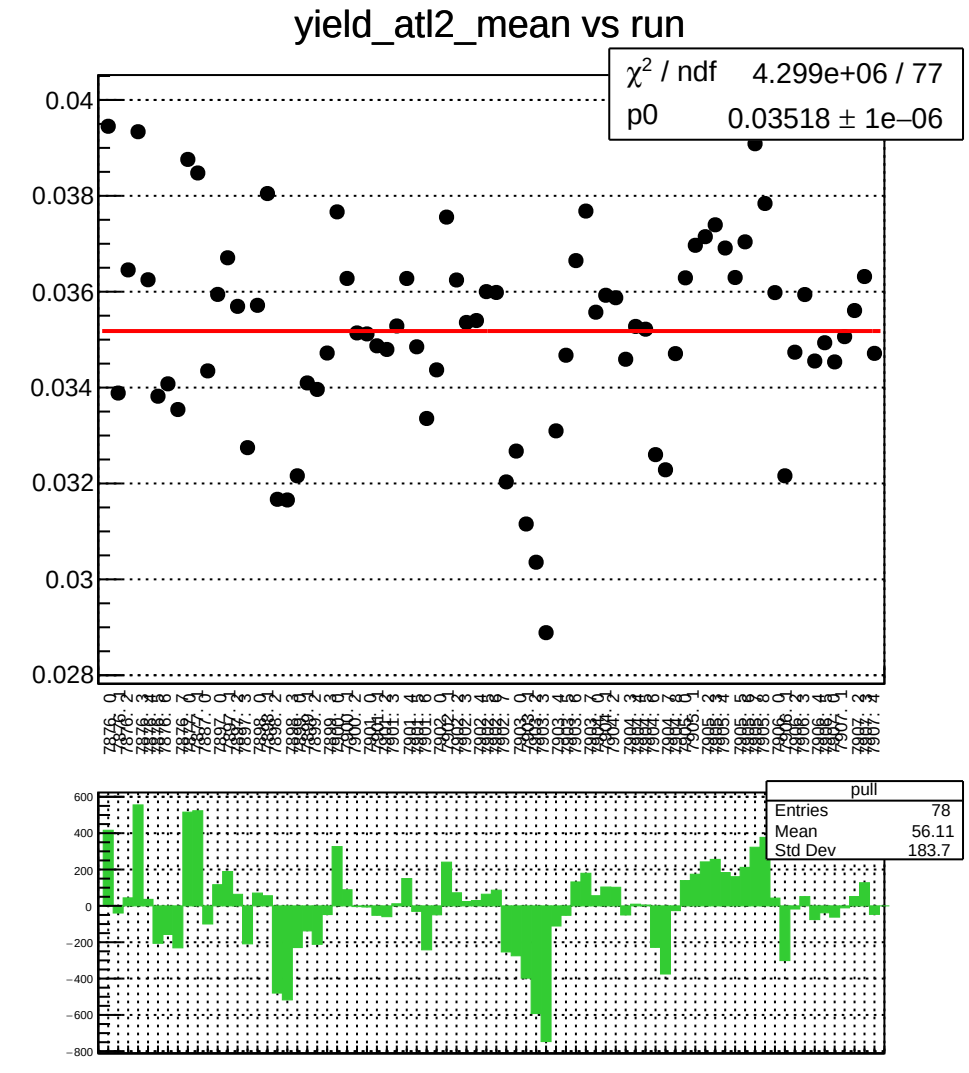

pull1D
Entries 78
Mean −1.714
Std Dev 5.259
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

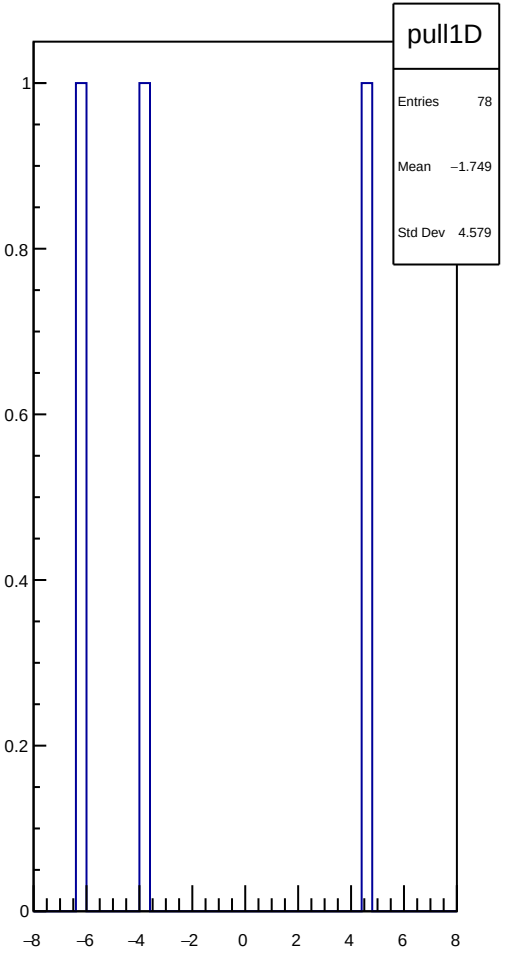

yield_dsr_rms vs run
χ² / ndf 2.934e+04 / 77
p0 0.0496 ± 4.068e−05
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04

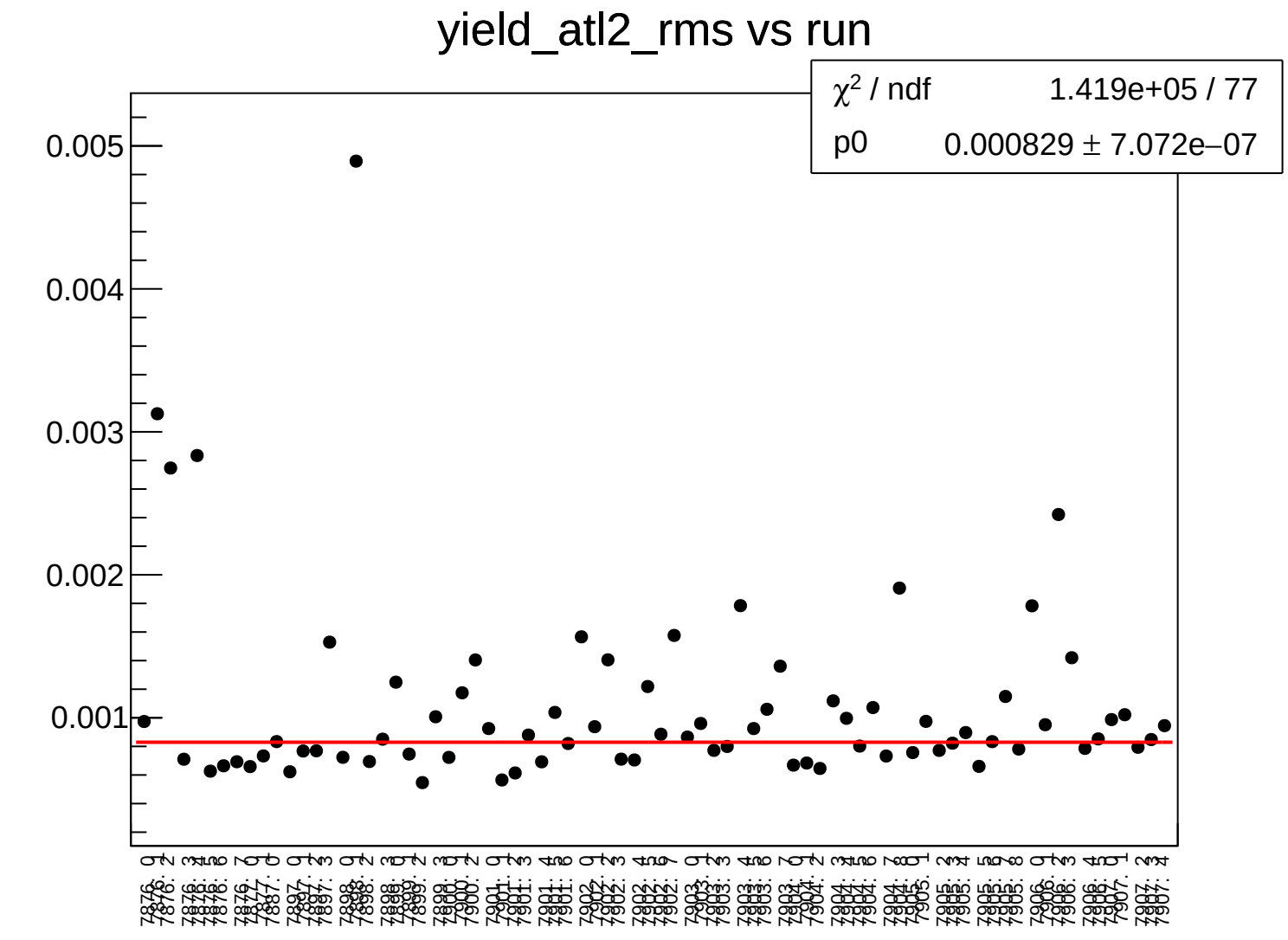

yield_atl1_mean vs run
χ² / ndf 2.214e+06 / 77
p0 0.02692 ± 1.162e−07
0.0273
0.0272
0.0271
0.027
0.0269
0.0268
0.0267
0.0266
0.0265
pull
Entries 78
Mean 556.8
Std Dev 514.6
300
200
100
0
−100
−200

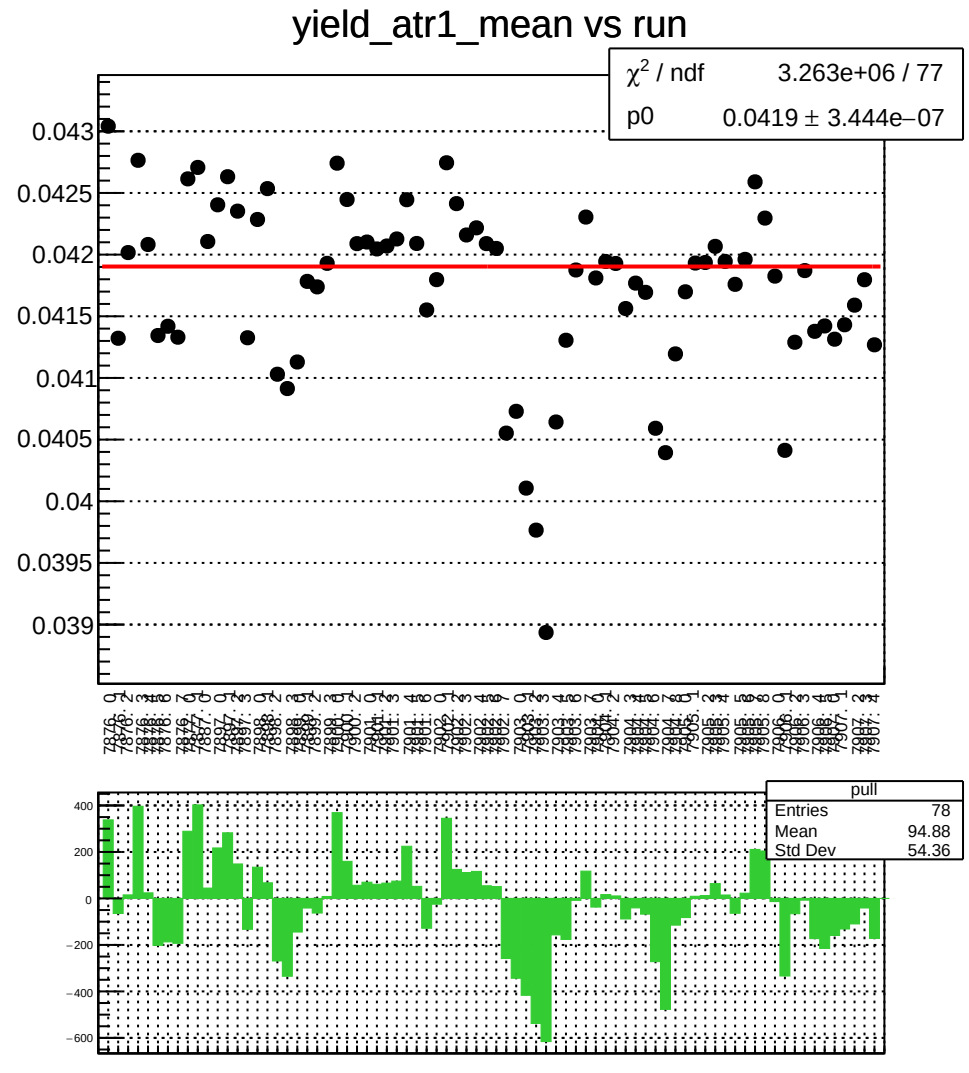

pull1D
Entries 78
Mean 3.272
Std Dev 1.161
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

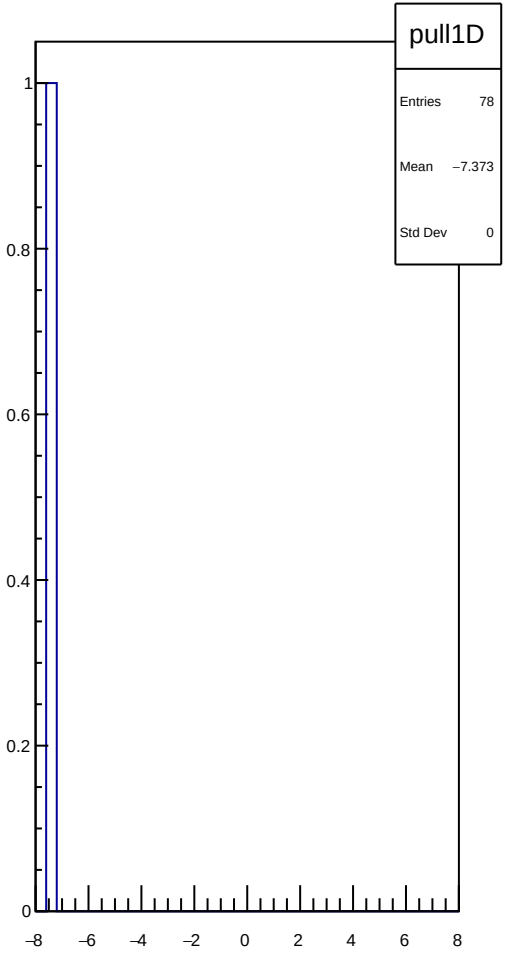

yield_atl1_rms vs run
×10⁻³
χ² / ndf 3.351e+04 / 77
p0 0.0001001 ± 8.22e−08
0.18
0.16
0.14
0.12
0.1
0.08

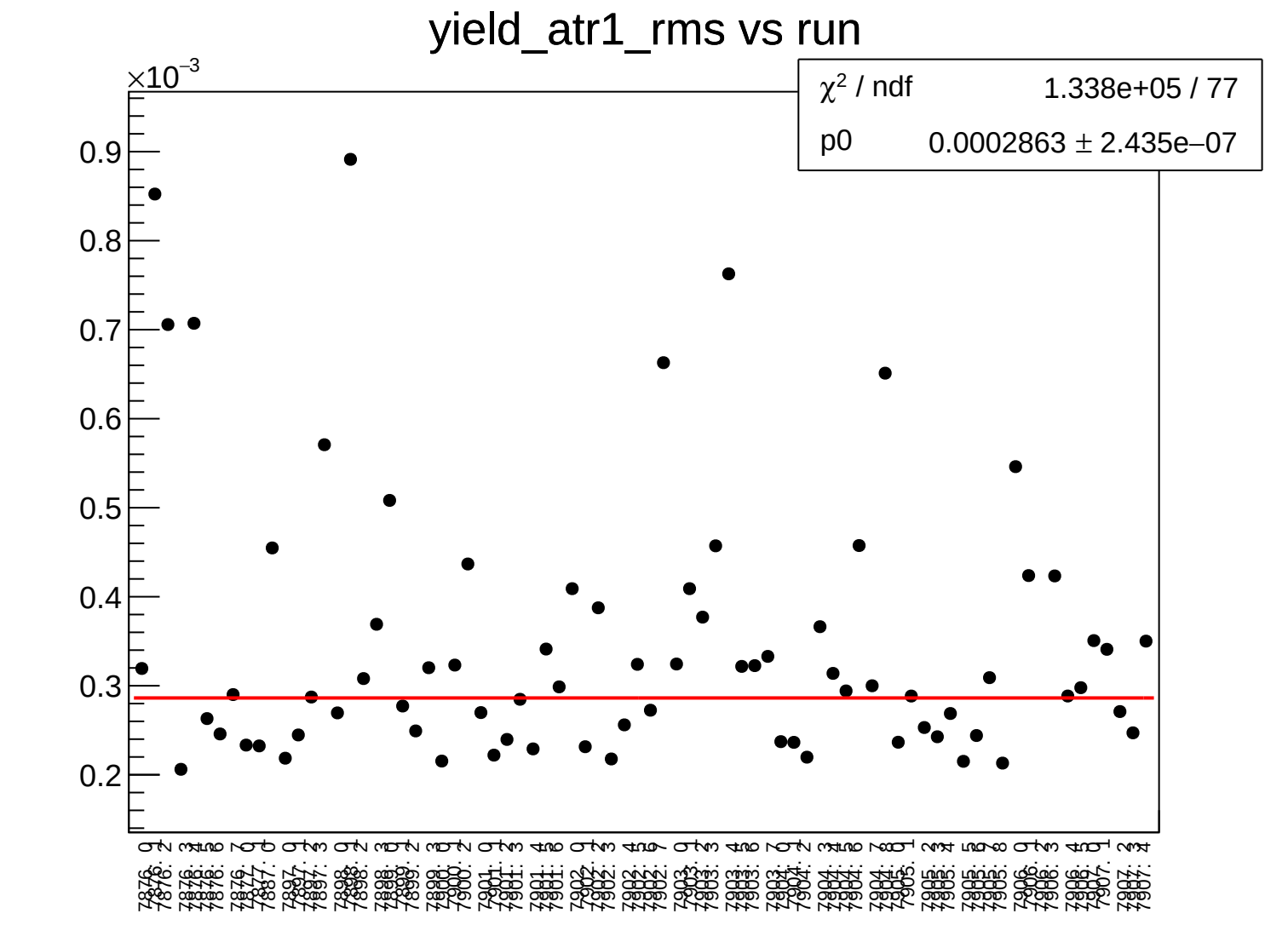

yield_atl2_mean vs run
χ² / ndf 4.299e+06 / 77
p0 0.03518 ± 1e−06
0.04
0.038
0.036
0.034
0.032
0.03
0.028
pull
Entries 78
Mean 56.11
Std Dev 183.7
600
400
200
0
−200
−400
−600
−800

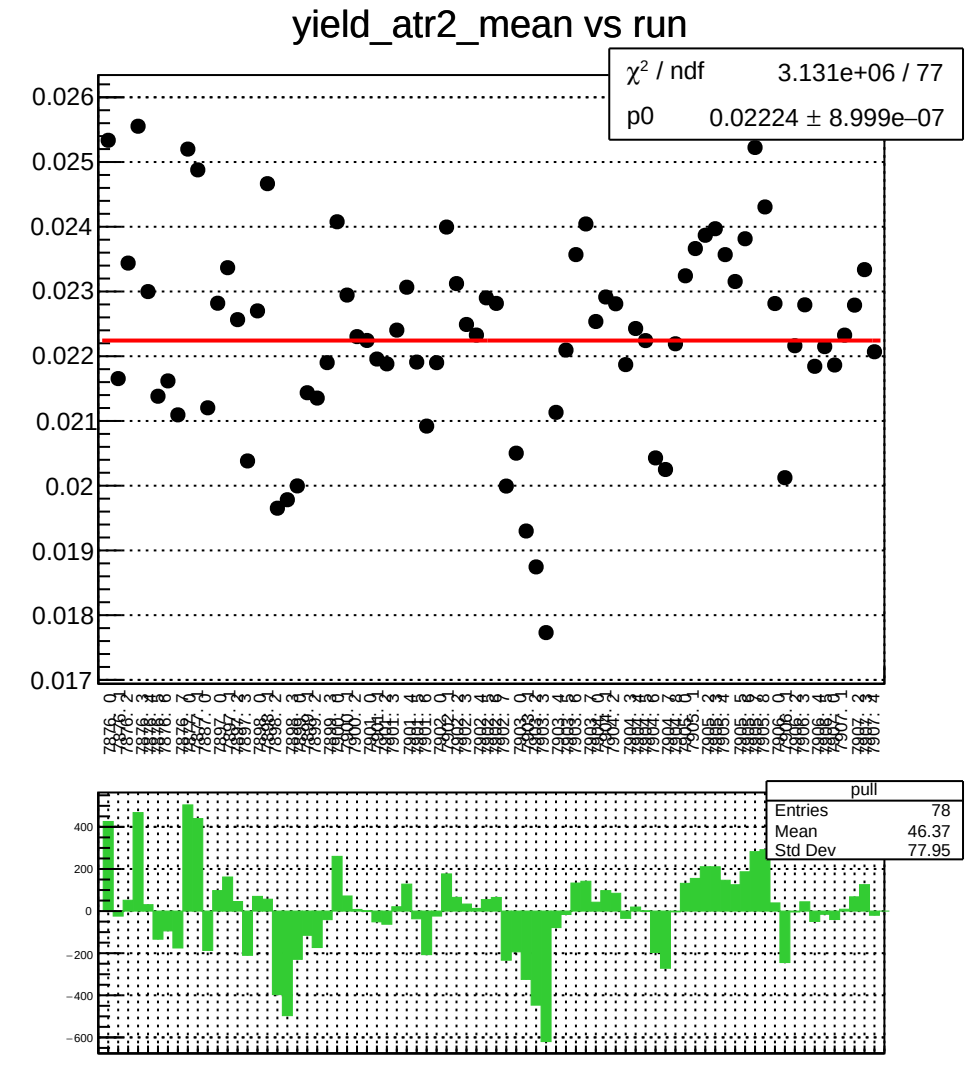

pull1D
Entries 78
Mean −1.749
Std Dev 4.579
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

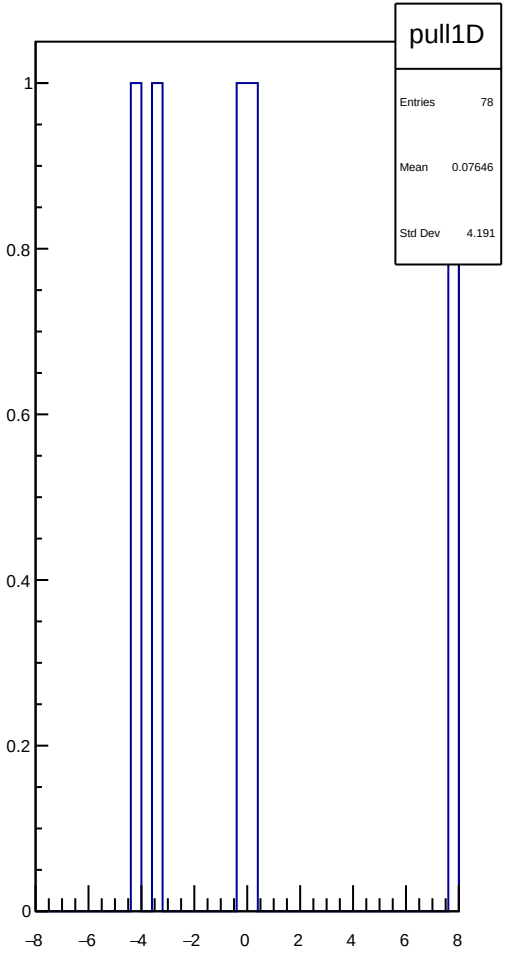

yield_atl2_rms vs run
χ² / ndf 1.419e+05 / 77
p0 0.000829 ± 7.072e−07
0.005
0.004
0.003
0.002
0.001

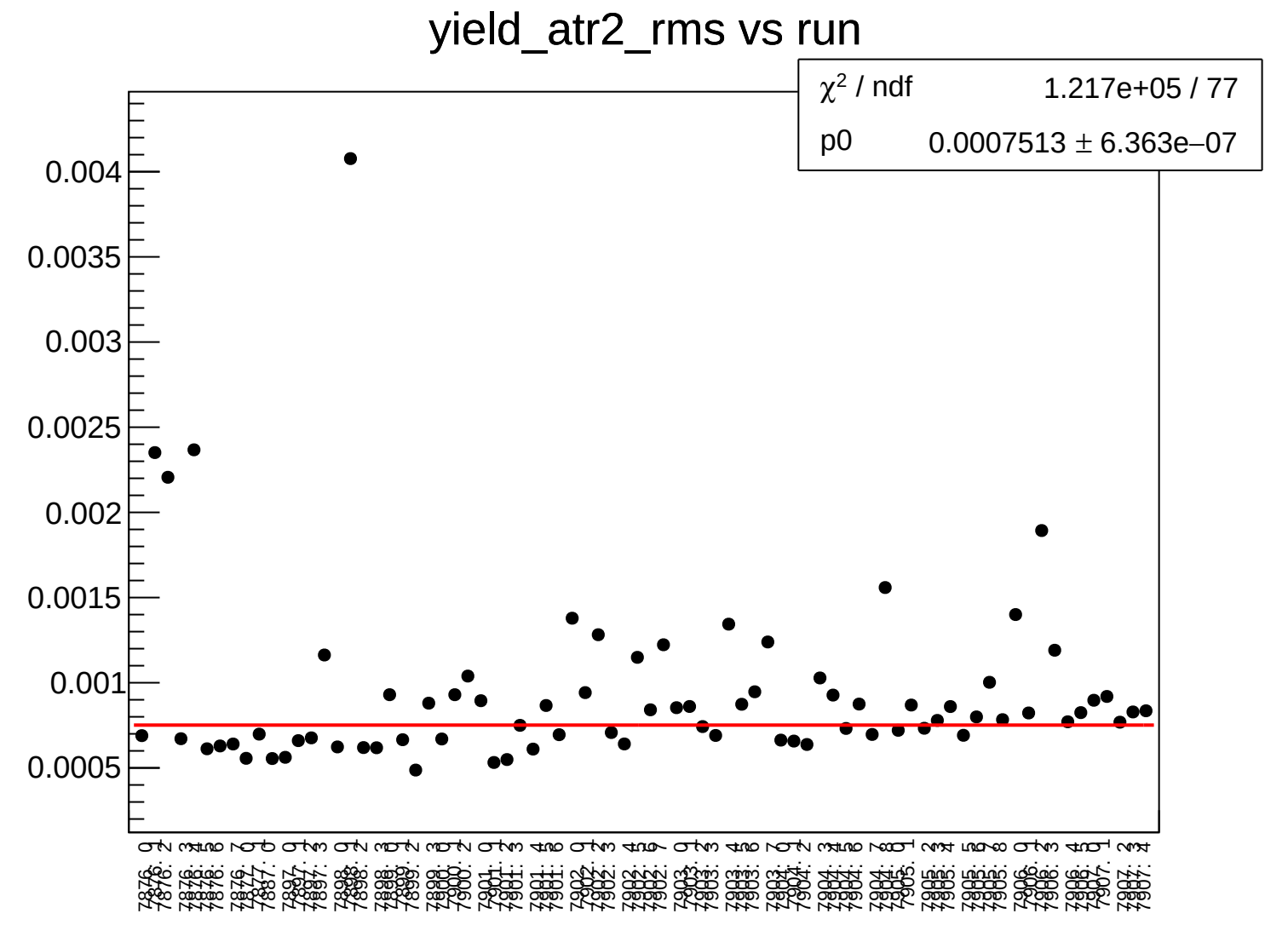

yield_atr1_mean vs run
χ² / ndf 3.263e+06 / 77
p0 0.0419 ± 3.444e−07
0.043
0.0425
0.042
0.0415
0.041
0.0405
0.04
0.0395
0.039
pull
Entries 78
Mean 94.88
Std Dev 54.36
400
200
0
−200
−400
−600

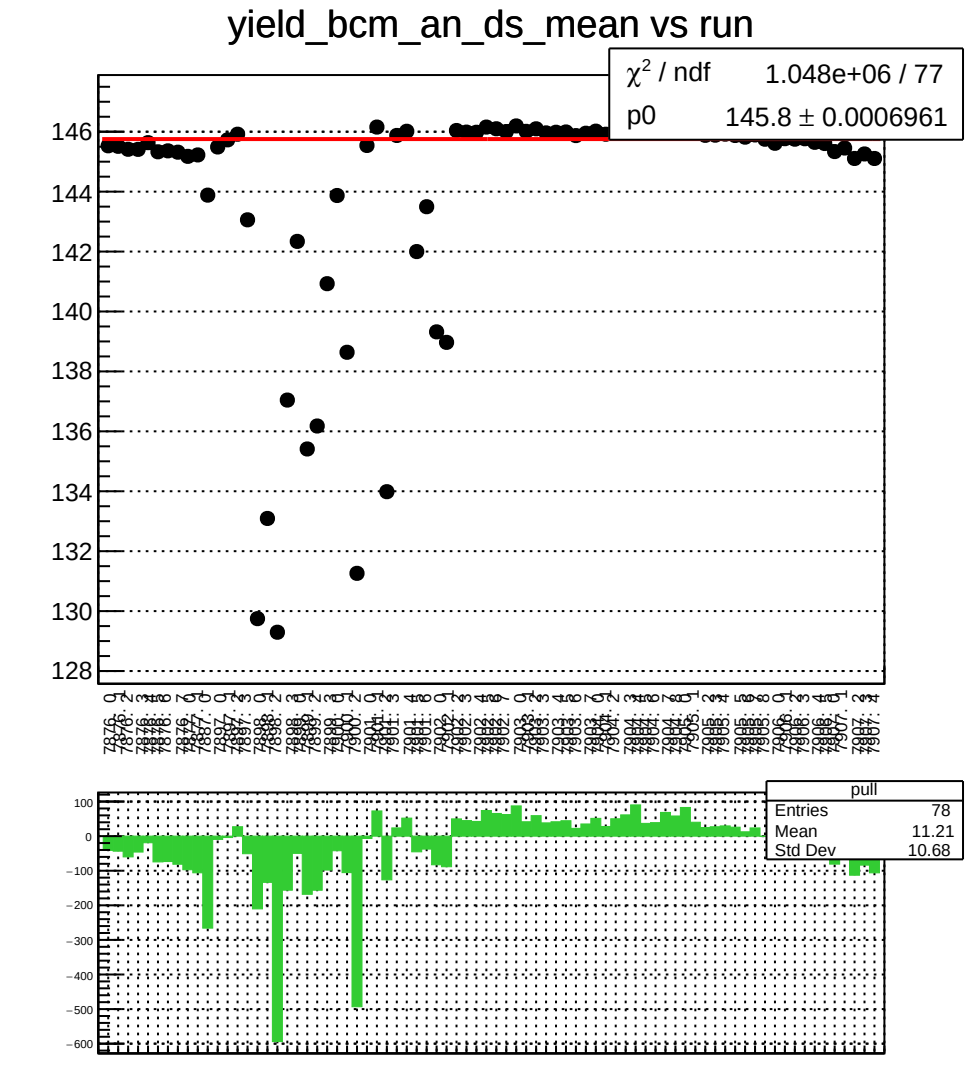

pull1D
Entries 78
Mean −7.373
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

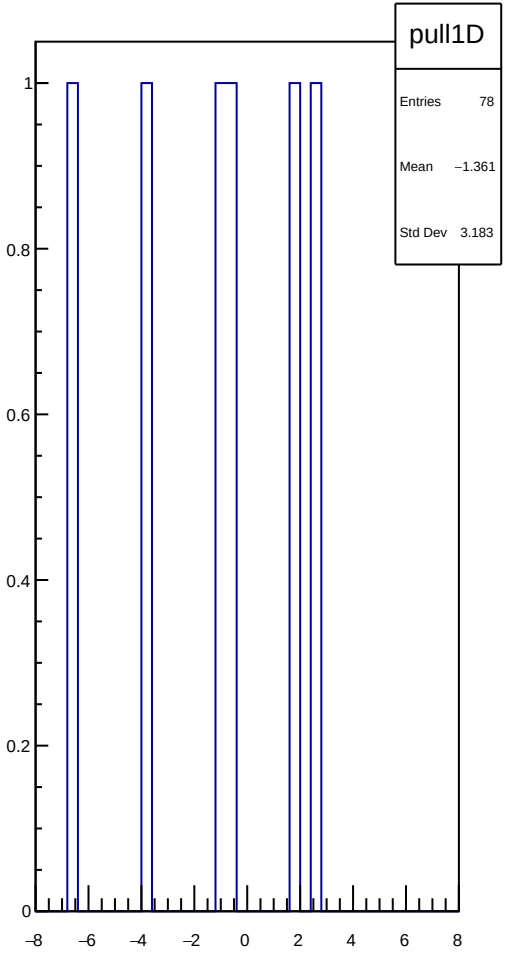

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.338e+05 / 77
p0 0.0002863 ± 2.435e−07
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

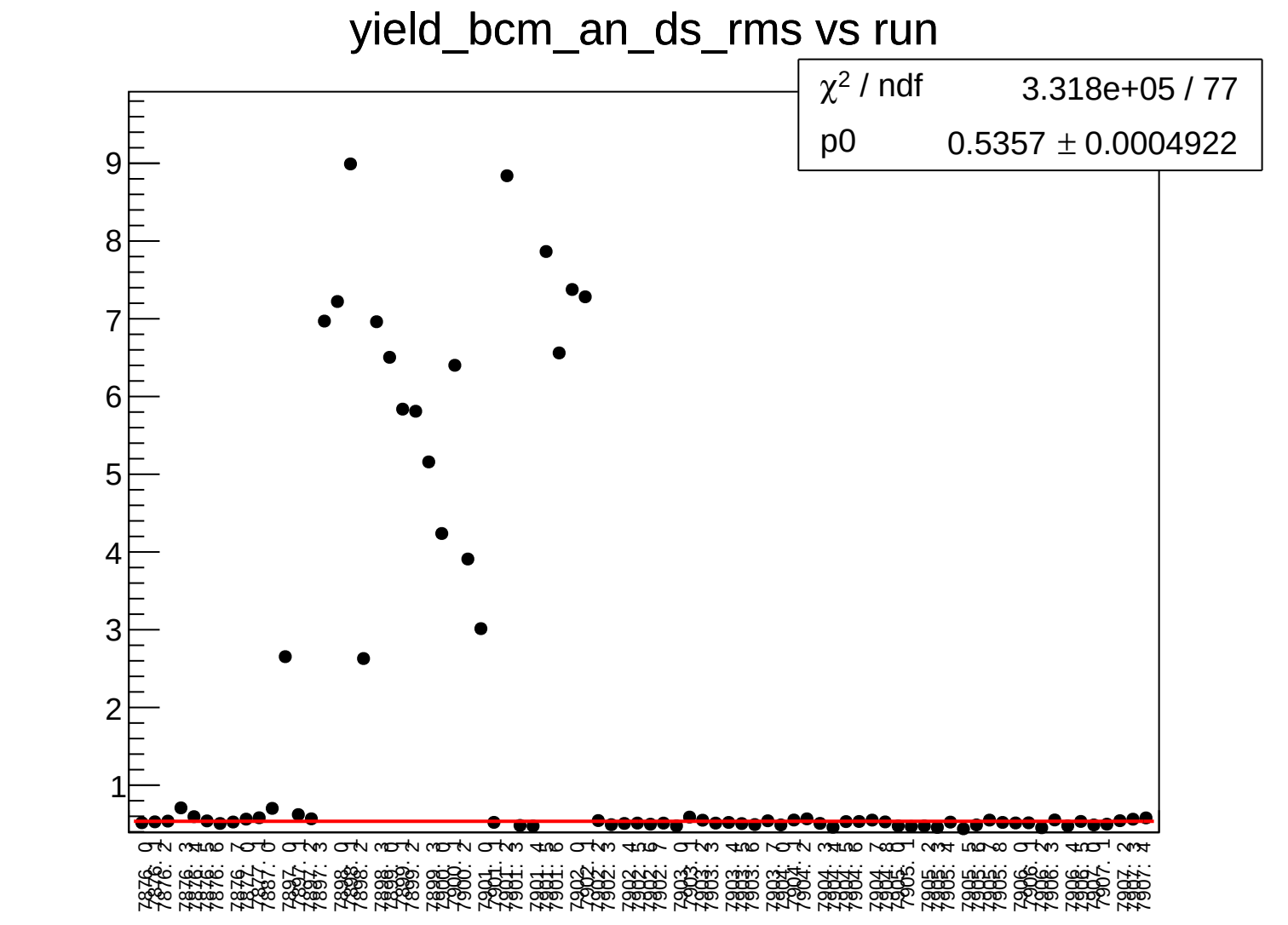

yield_atr2_mean vs run
χ² / ndf 3.131e+06 / 77
p0 0.02224 ± 8.999e−07
0.026
0.025
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017
pull
Entries 78
Mean 46.37
Std Dev 77.95
400
200
0
−200
−400
−600

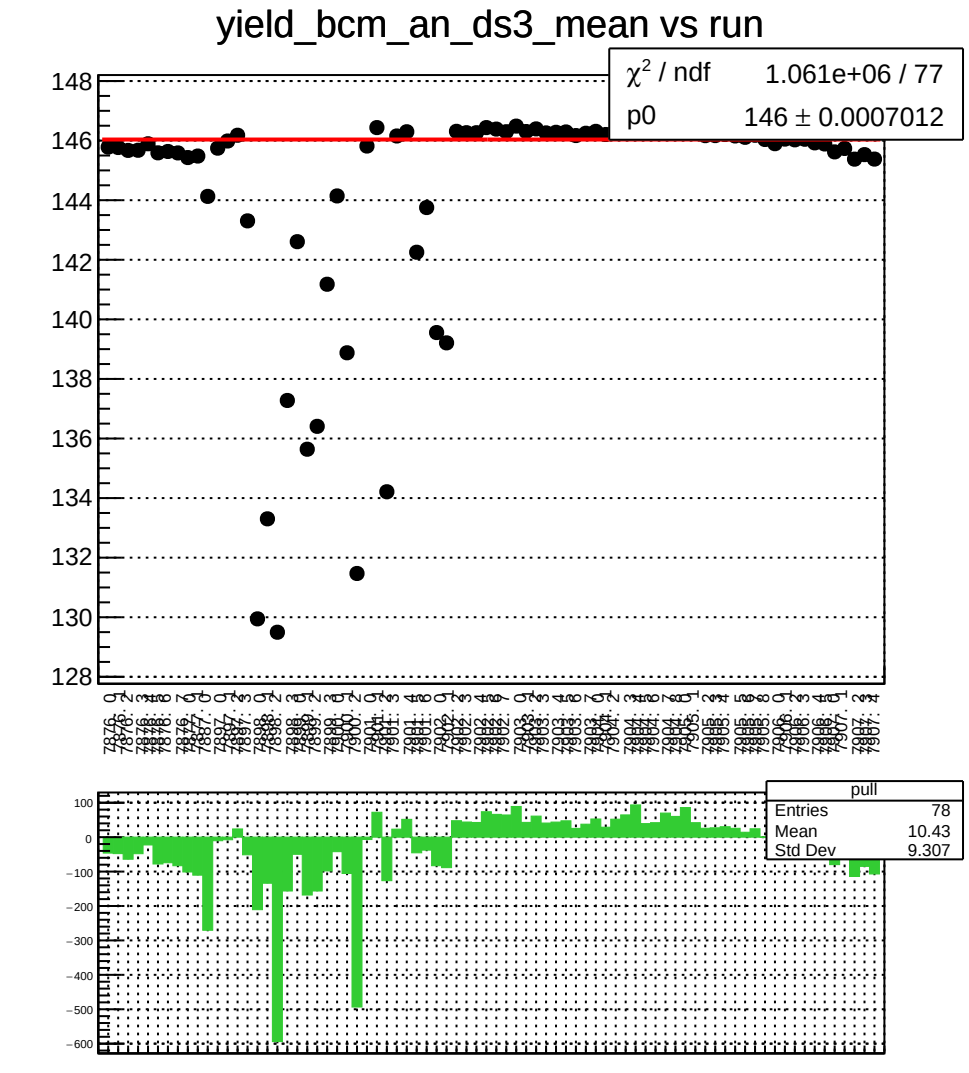

pull1D
Entries 78
Mean 0.07646
Std Dev 4.191
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

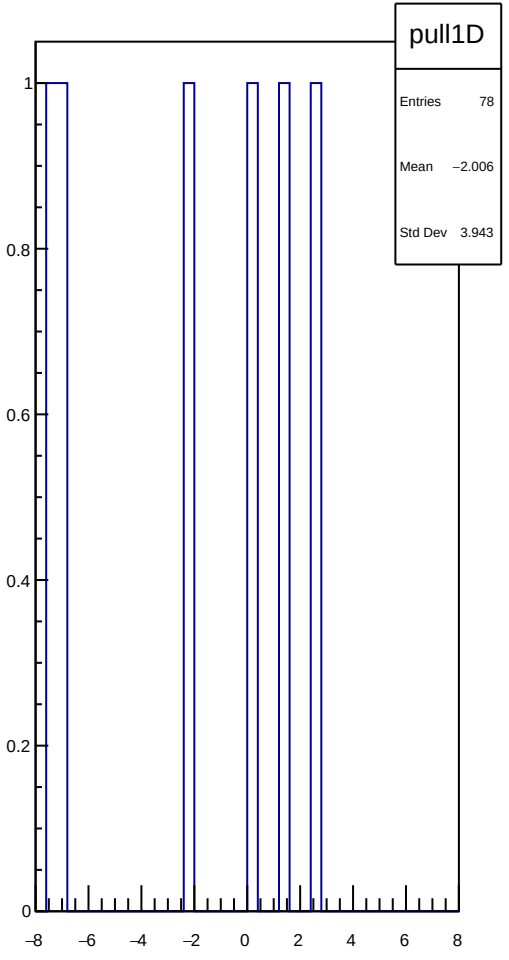

yield_atr2_rms vs run
χ² / ndf 1.217e+05 / 77
p0 0.0007513 ± 6.363e−07
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

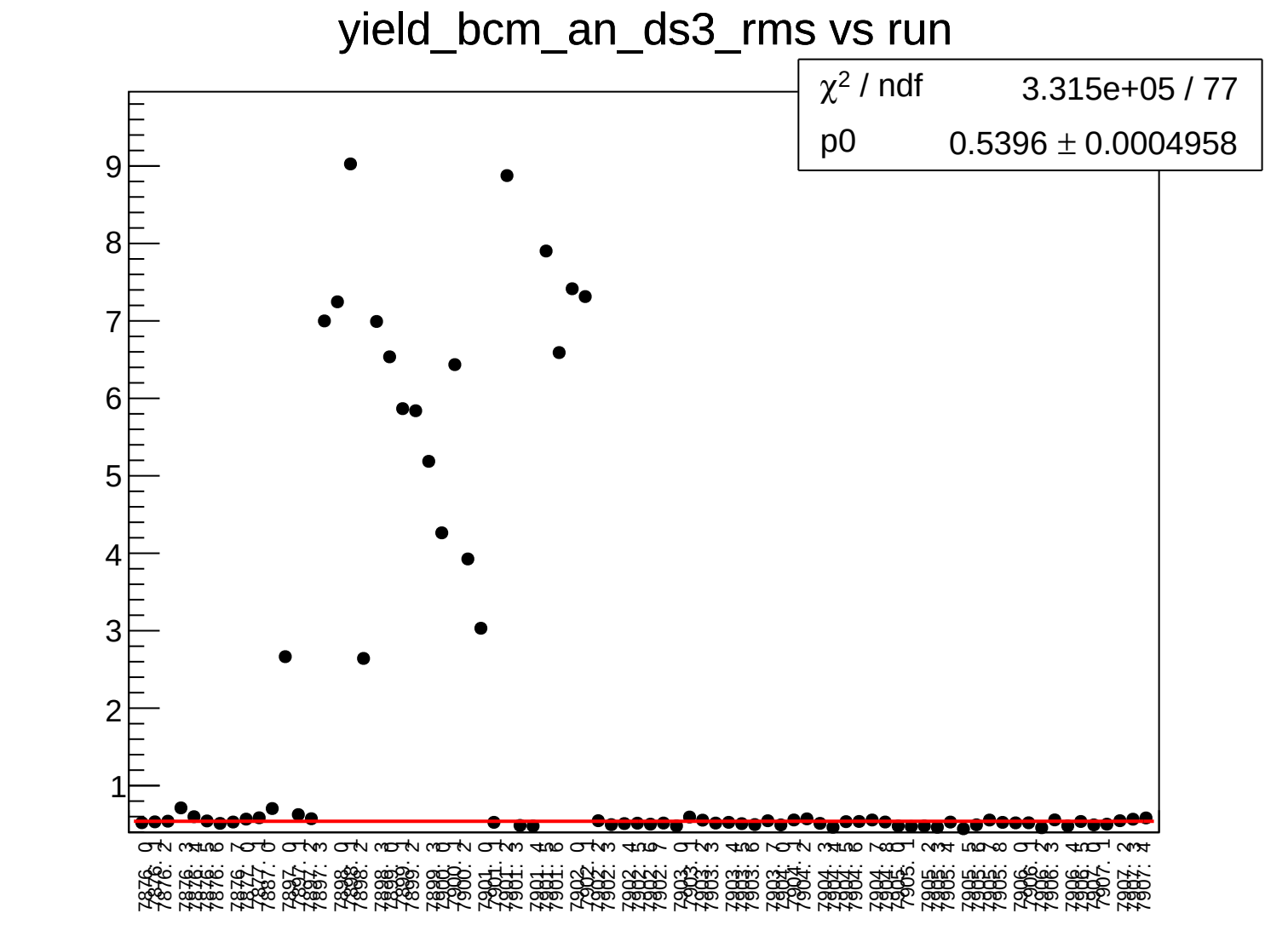

yield_bcm_an_ds_mean vs run
χ² / ndf 1.048e+06 / 77
p0 145.8 ± 0.0006961
146
144
142
140
138
136
134
132
130
128
pull
Entries 78
Mean 11.21
Std Dev 10.68
100
0
−100
−200
−300
−400
−500
−600

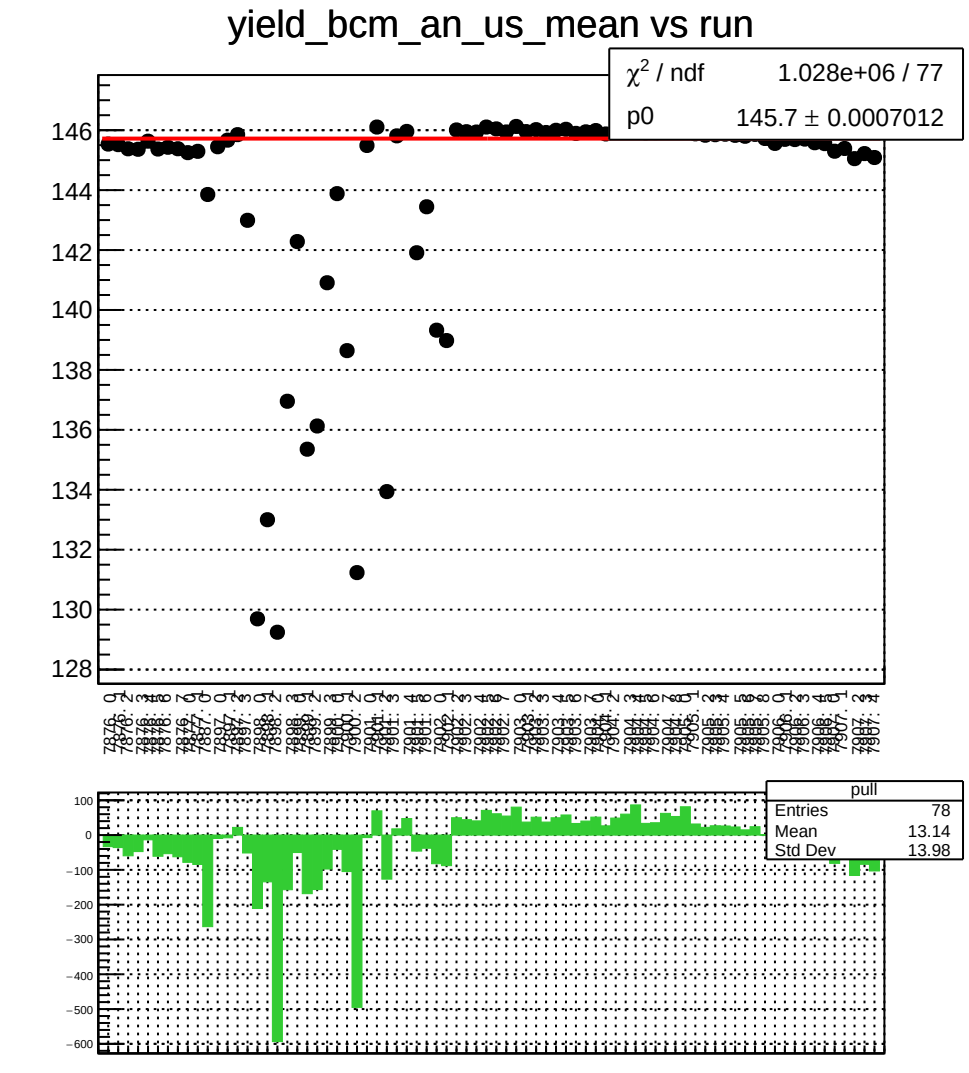

pull1D
Entries 78
Mean −1.361
Std Dev 3.183
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

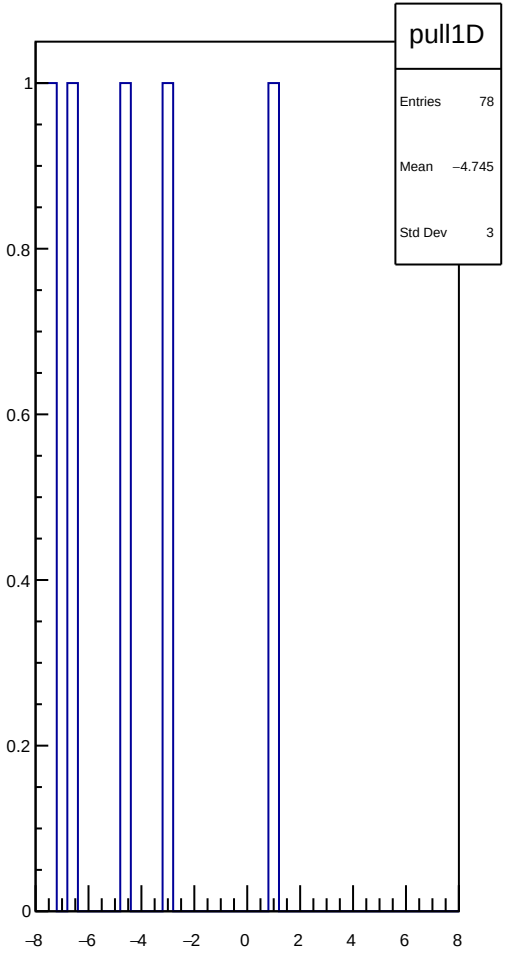

yield_bcm_an_ds_rms vs run
χ² / ndf 3.318e+05 / 77
p0 0.5357 ± 0.0004922
9
8
7
6
5
4
3
2
1

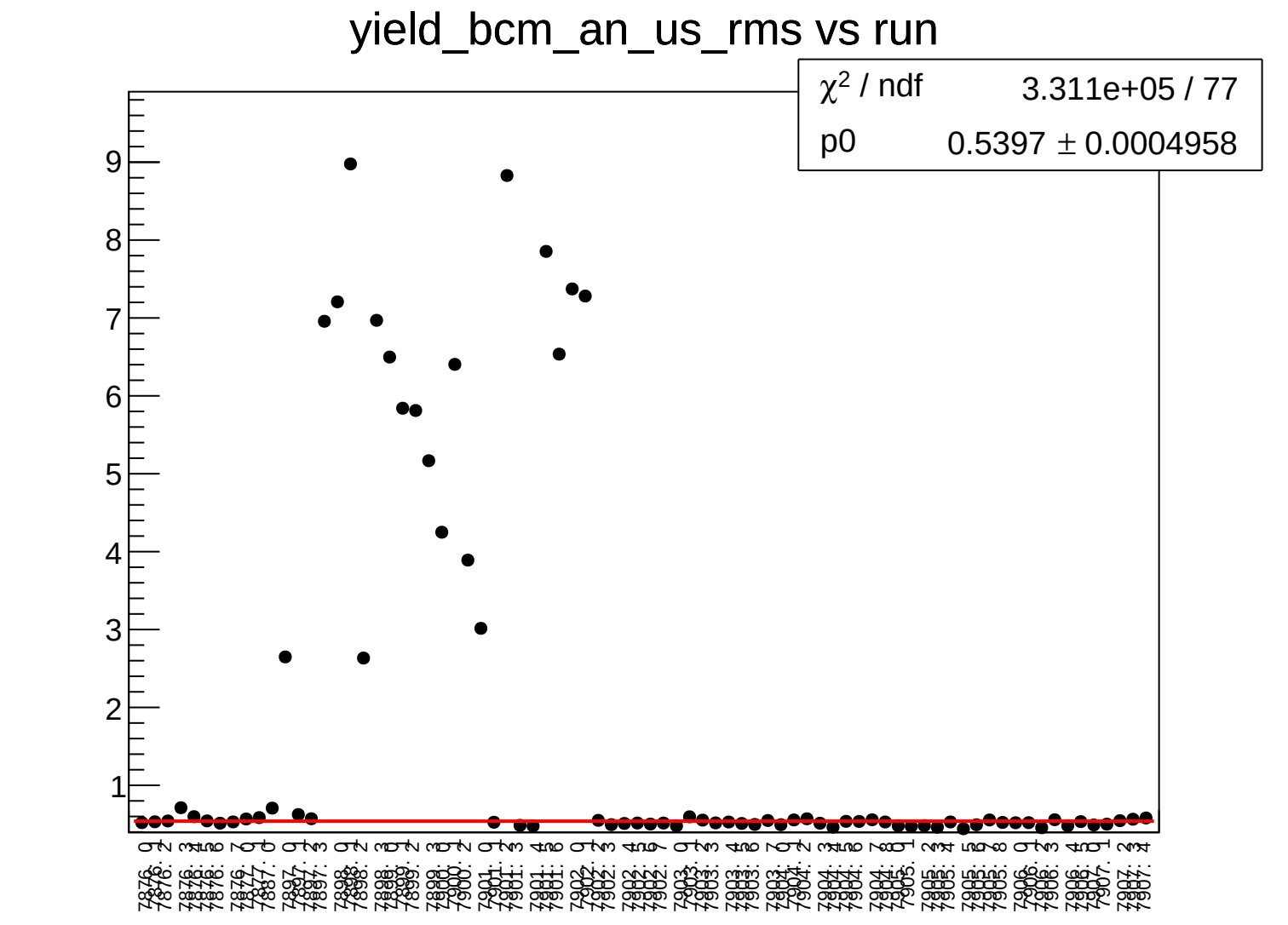

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.061e+06 / 77
p0 146 ± 0.0007012
148
146
144
142
140
138
136
134
132
130
128
pull
Entries 78
Mean 10.43
Std Dev 9.307
100
0
−100
−200
−300
−400
−500
−600

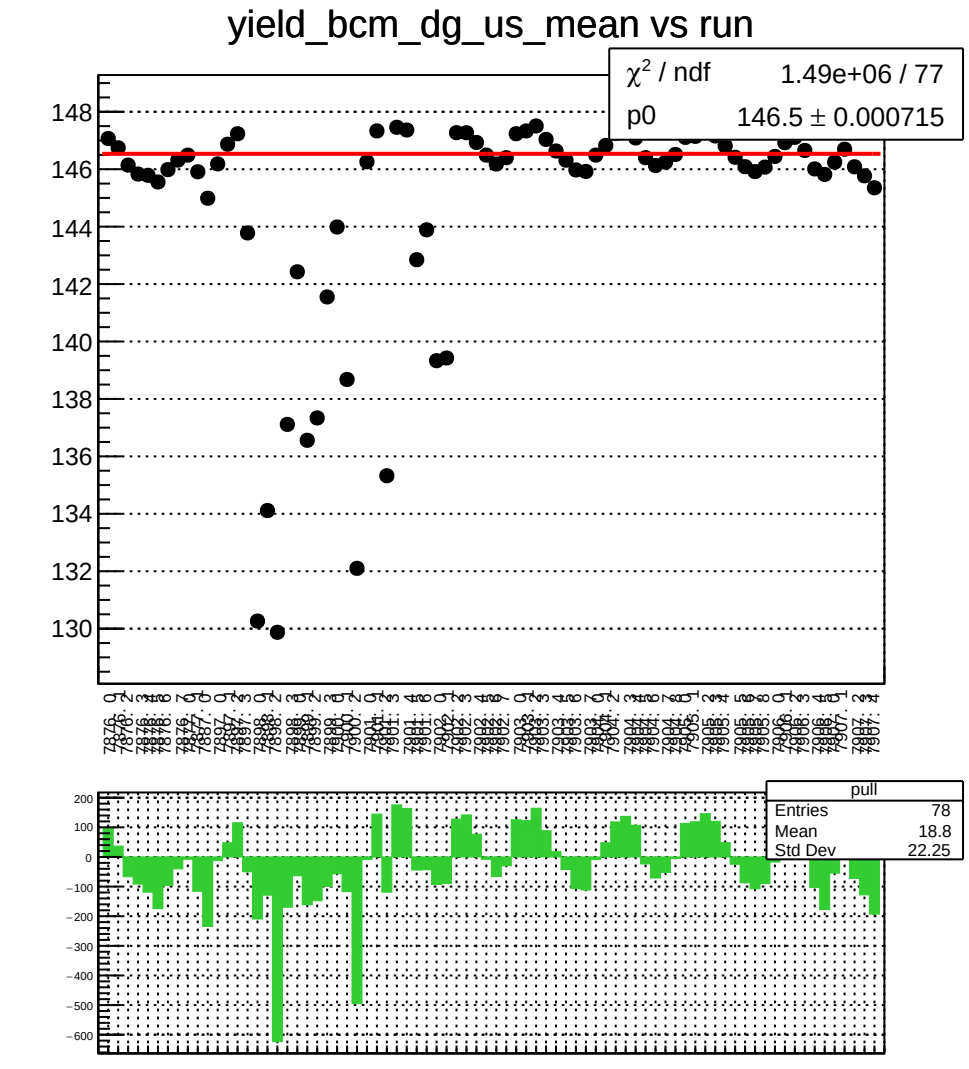

pull1D
Entries 78
Mean −2.006
Std Dev 3.943
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

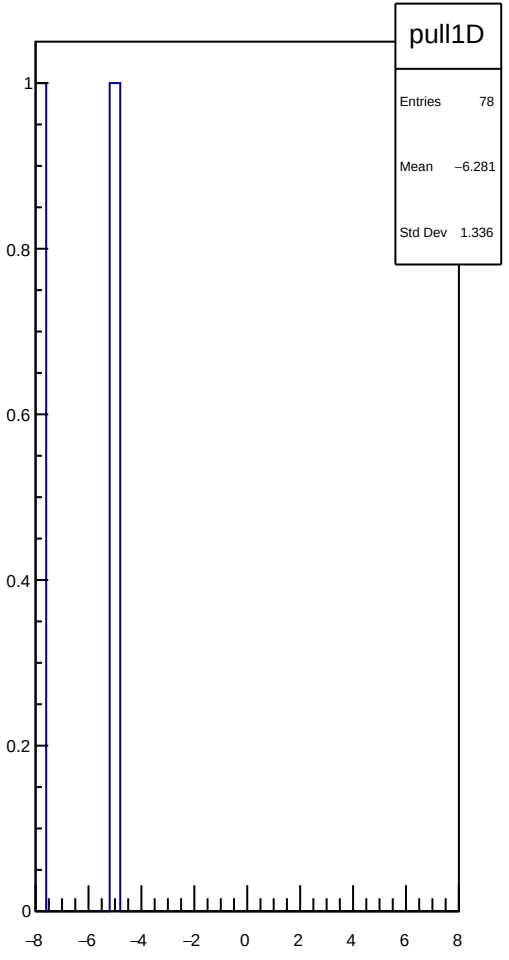

yield_bcm_an_ds3_rms vs run
χ² / ndf 3.315e+05 / 77
p0 0.5396 ± 0.0004958
9
8
7
6
5
4
3
2
1

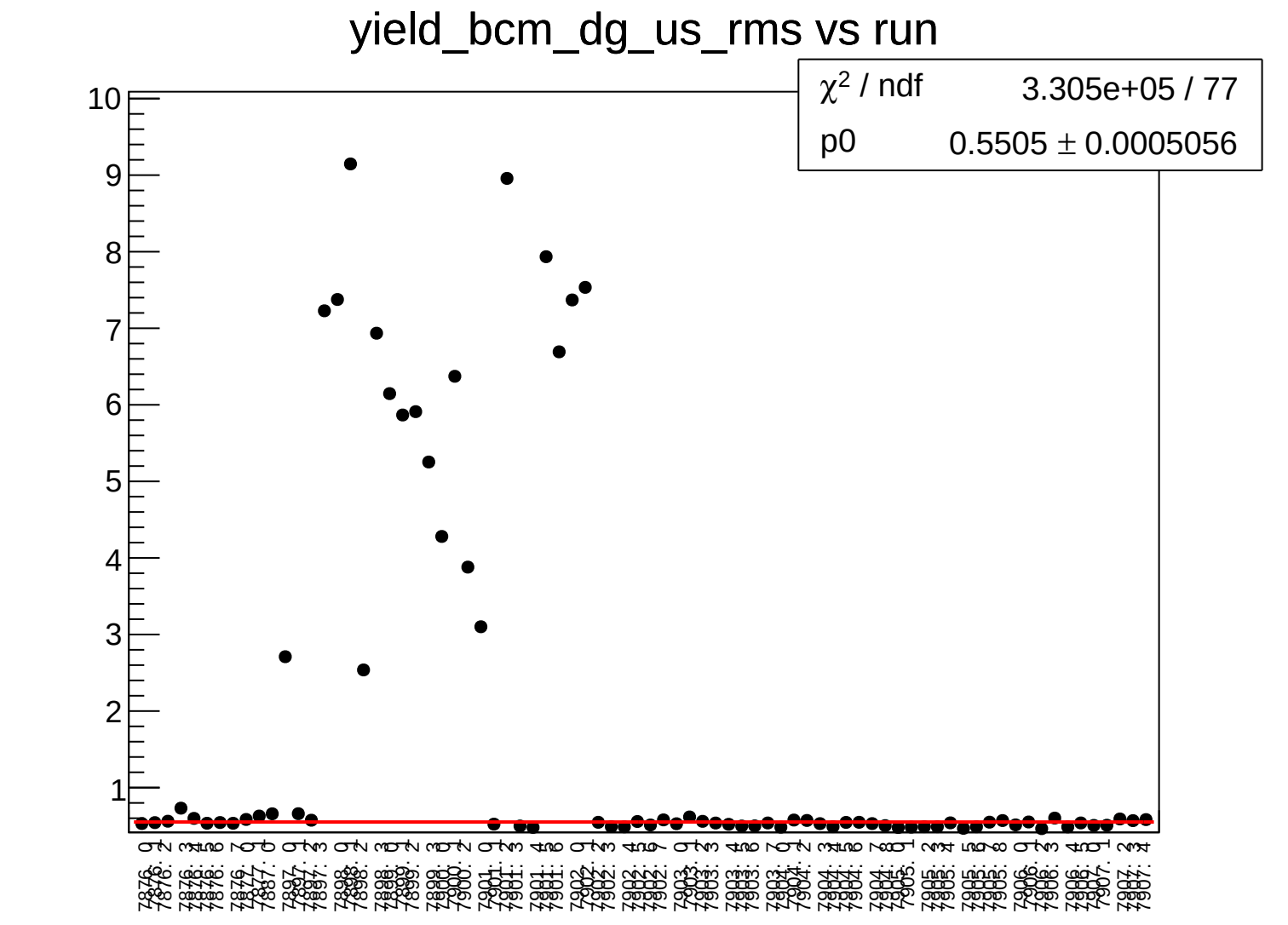

yield_bcm_an_us_mean vs run
χ² / ndf 1.028e+06 / 77
p0 145.7 ± 0.0007012
146
144
142
140
138
136
134
132
130
128
pull
Entries 78
Mean 13.14
Std Dev 13.98
100
0
−100
−200
−300
−400
−500
−600

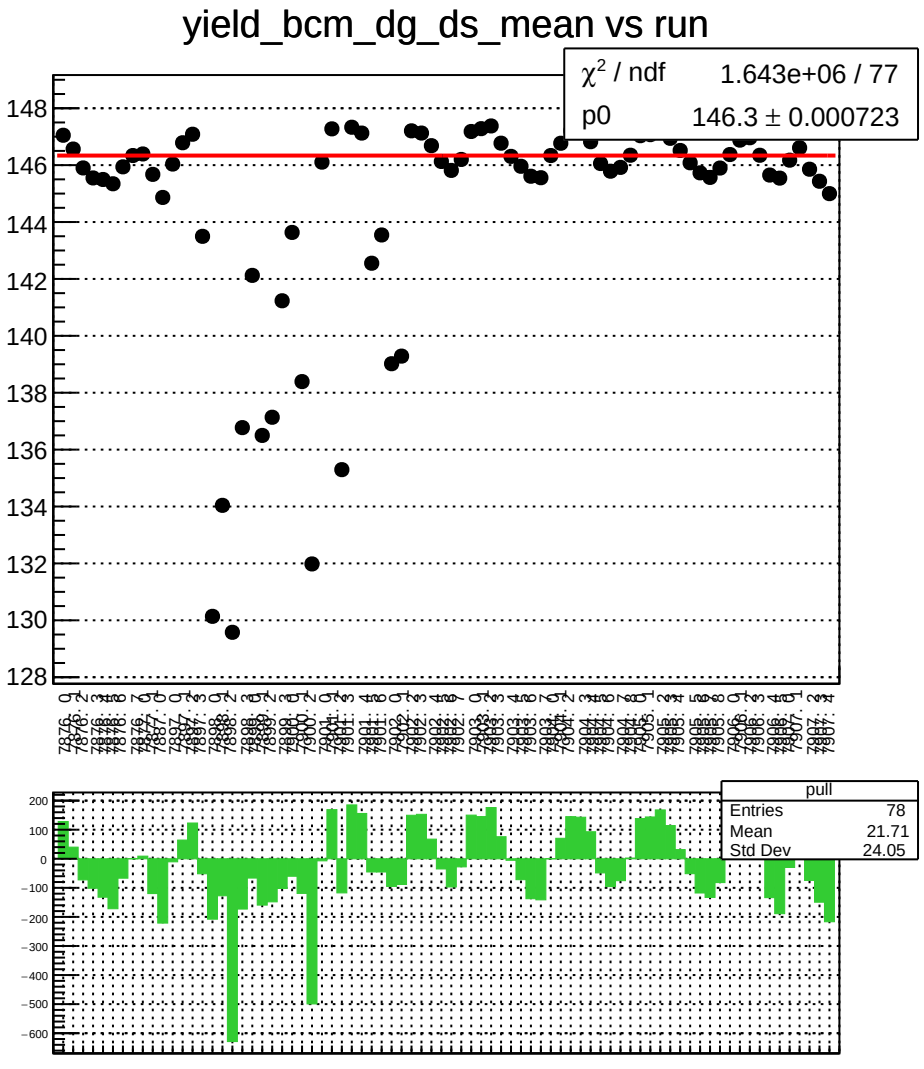

pull1D
Entries 78
Mean −4.745
Std Dev 3
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

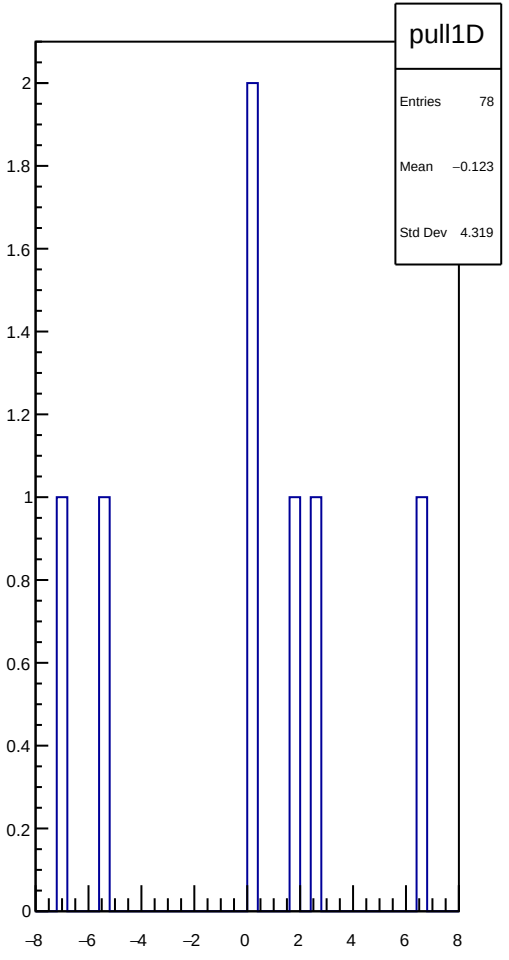

yield_bcm_an_us_rms vs run
χ² / ndf 3.311e+05 / 77
p0 0.5397 ± 0.0004958
9
8
7
6
5
4
3
2
1

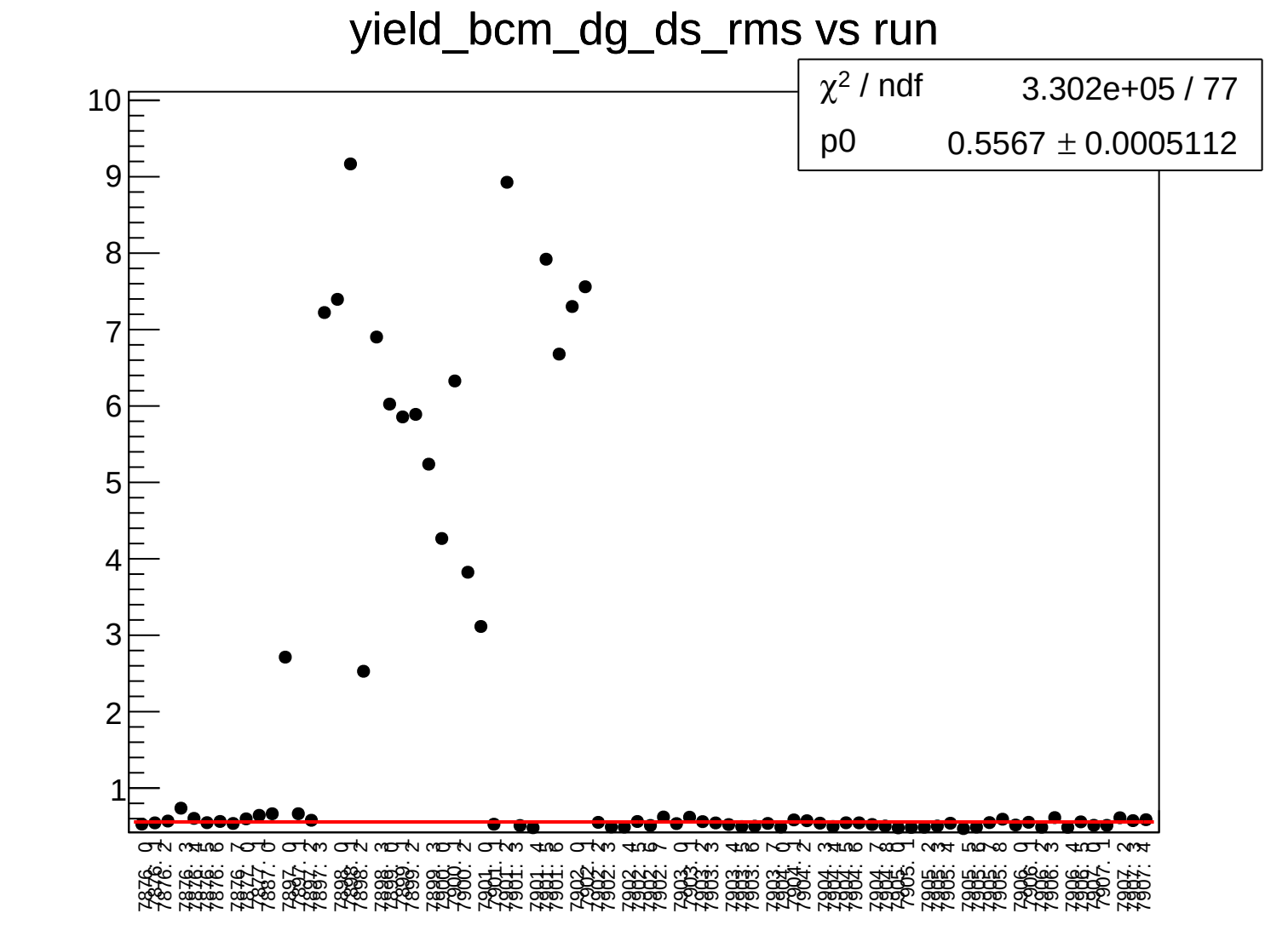

yield_bcm_dg_us_mean vs run
χ² / ndf 1.49e+06 / 77
p0 146.5 ± 0.000715
148
146
144
142
140
138
136
134
132
130
pull
Entries 78
Mean 18.8
Std Dev 22.25
200
100
0
−100
−200
−300
−400
−500
−600

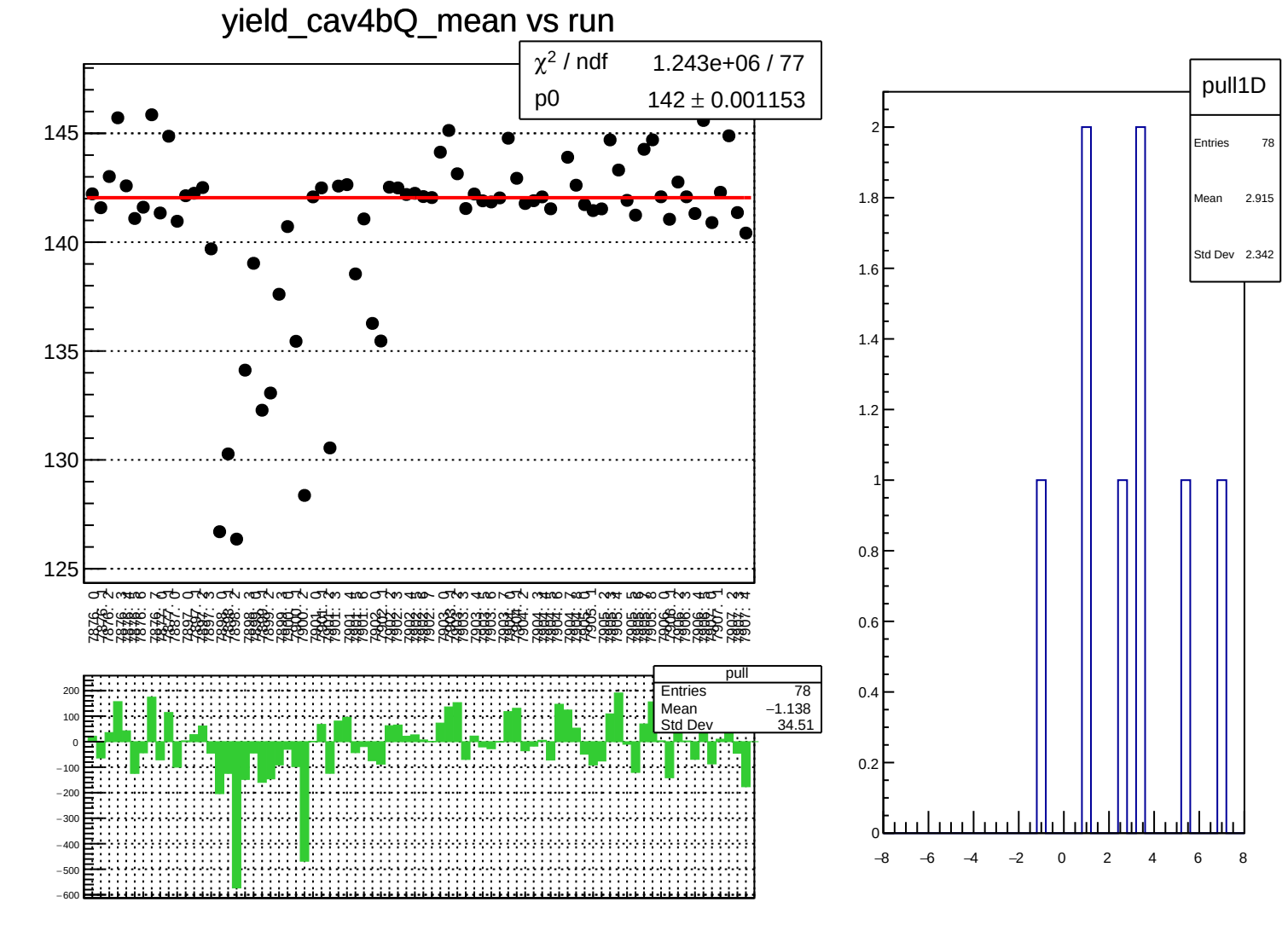

pull1D
Entries 78
Mean −6.281
Std Dev 1.336
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

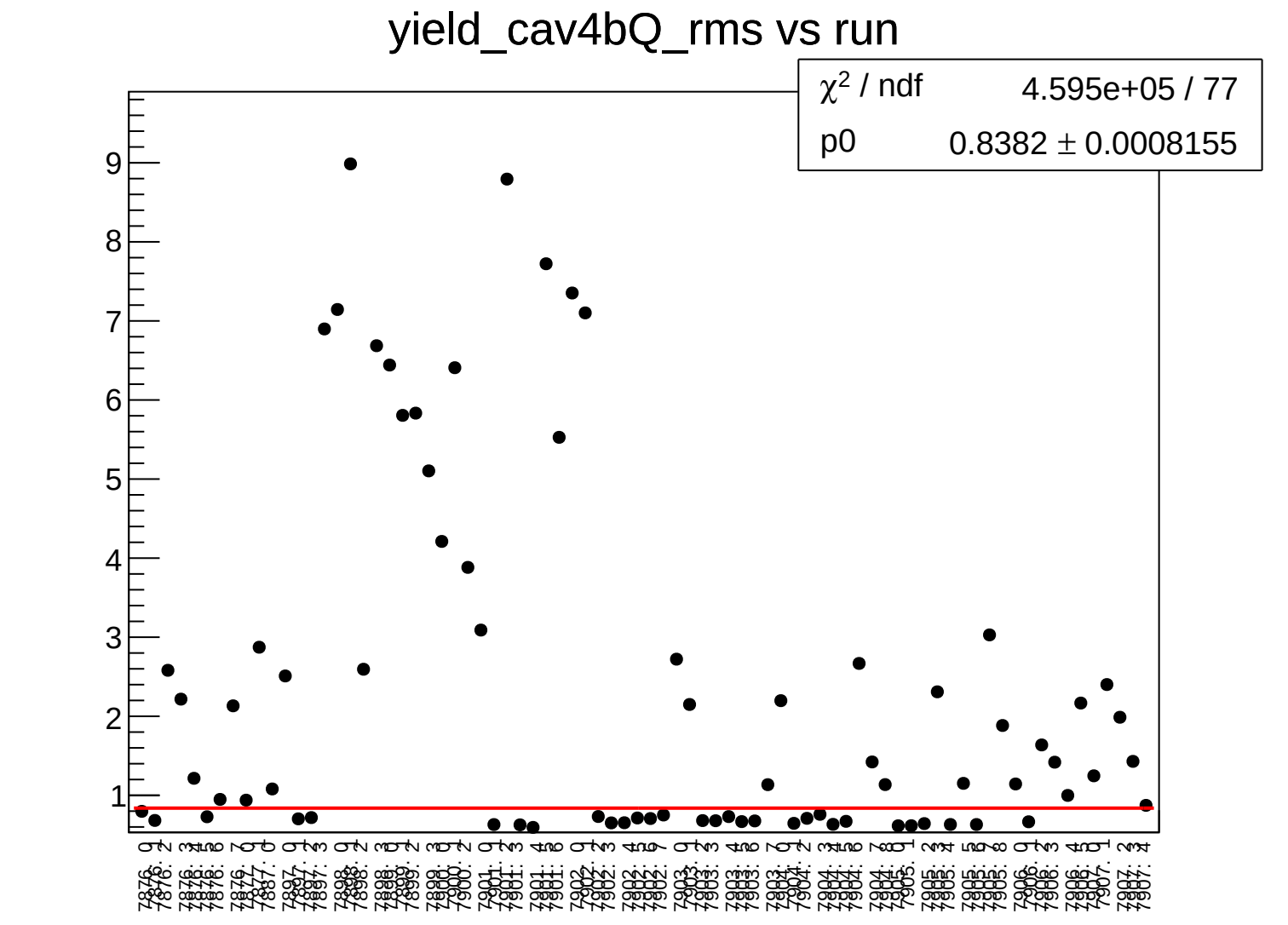

yield_bcm_dg_us_rms vs run
χ² / ndf 3.305e+05 / 77
p0 0.5505 ± 0.0005056
10
9
8
7
6
5
4
3
2
1

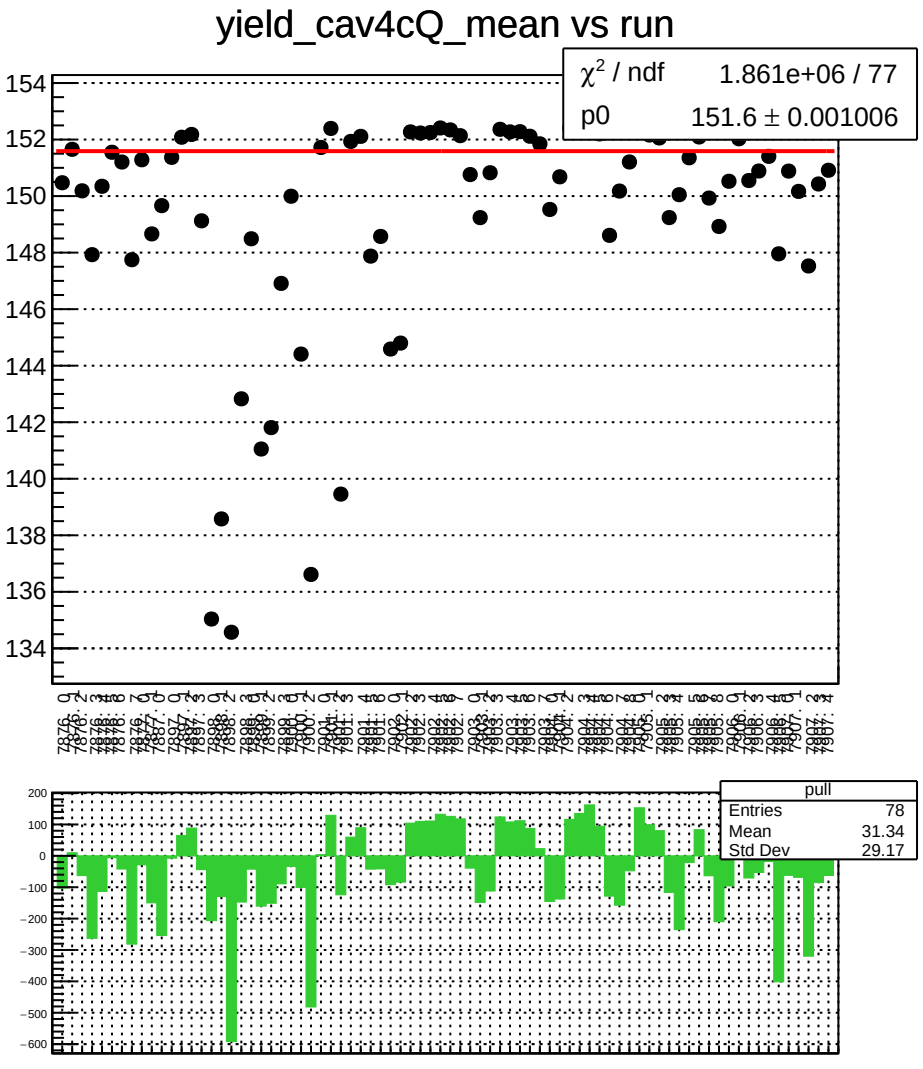

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.643e+06 / 77
p0 146.3 ± 0.000723
148
146
144
142
140
138
136
134
132
130
128
pull
Entries 78
Mean 21.71
Std Dev 24.05
200
100
0
−100
−200
−300
−400
−500
−600

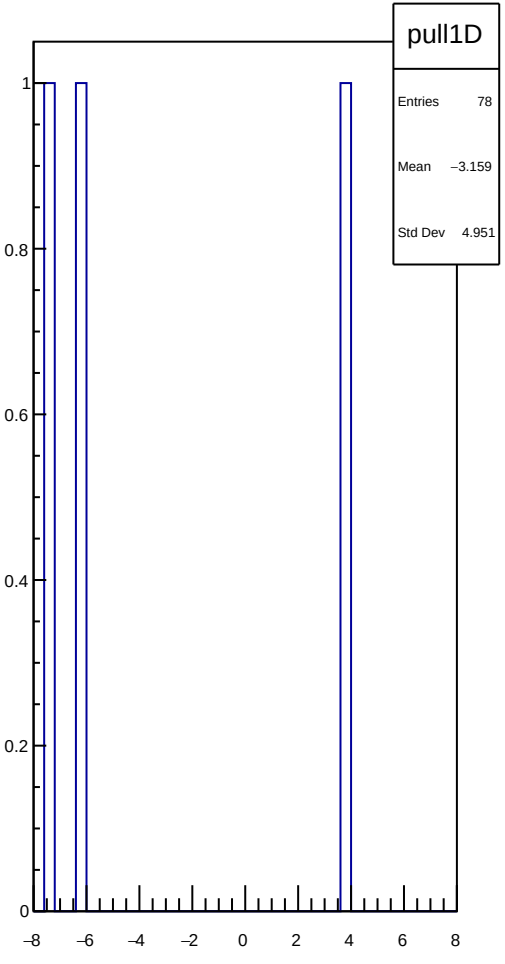

pull1D
Entries 78
Mean −0.123
Std Dev 4.319
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

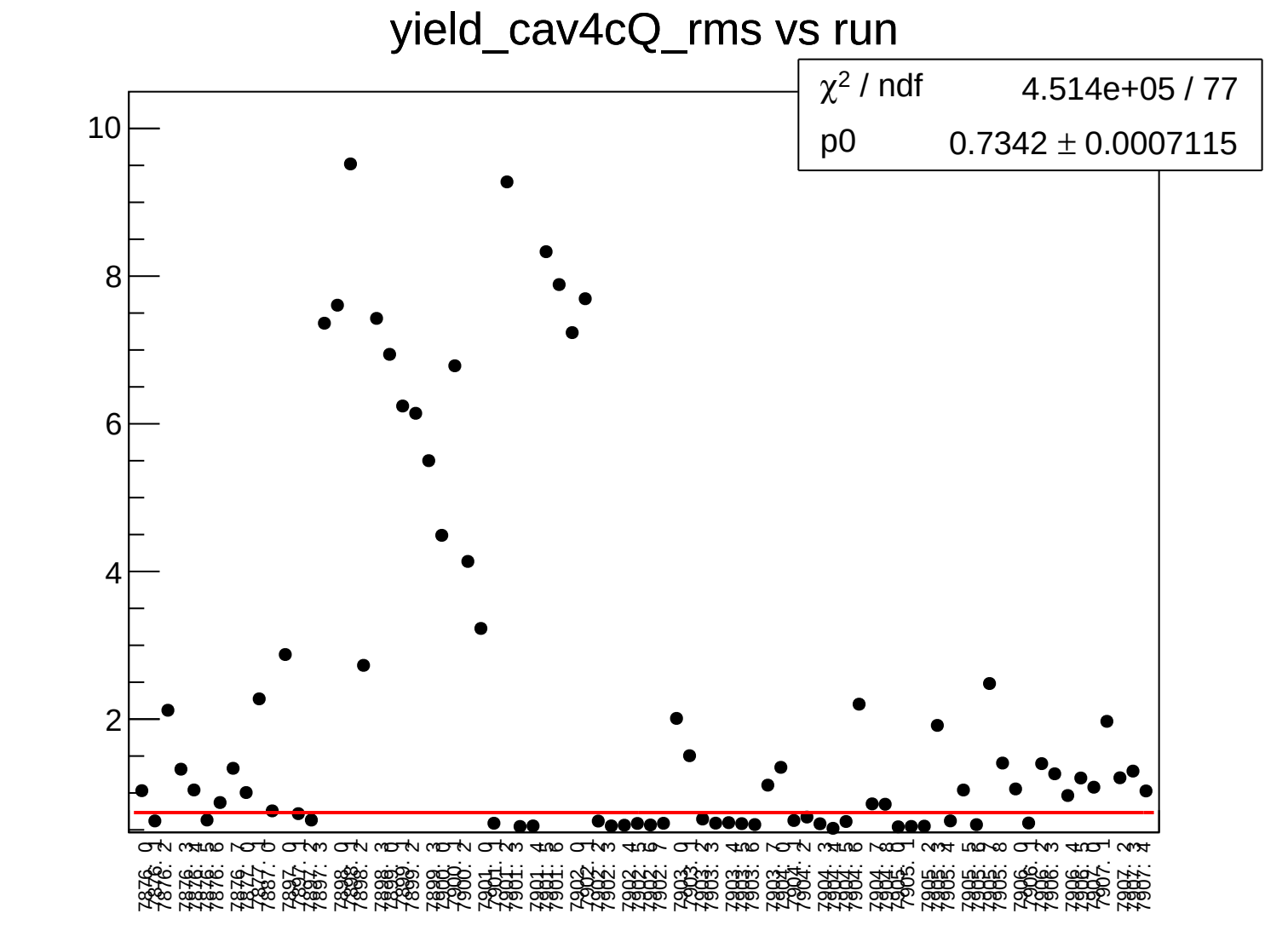

yield_bcm_dg_ds_rms vs run
χ² / ndf 3.302e+05 / 77
p0 0.5567 ± 0.0005112
10
9
8
7
6
5
4
3
2
1

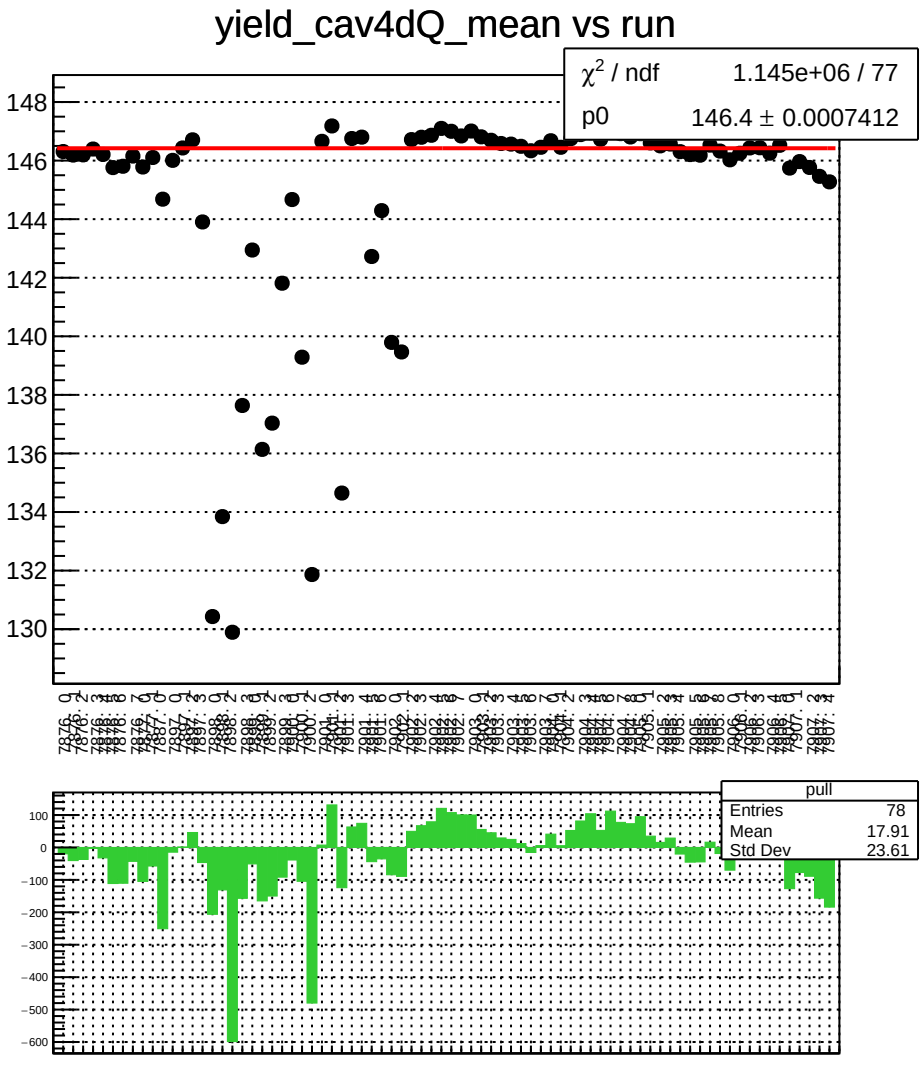

yield_cav4bQ_mean vs run
χ² / ndf 1.243e+06 / 77
p0 142 ± 0.001153
pull
Entries 78
Mean −1.138
Std Dev 34.51
pull1D
Entries 78
Mean 2.915
Std Dev 2.342

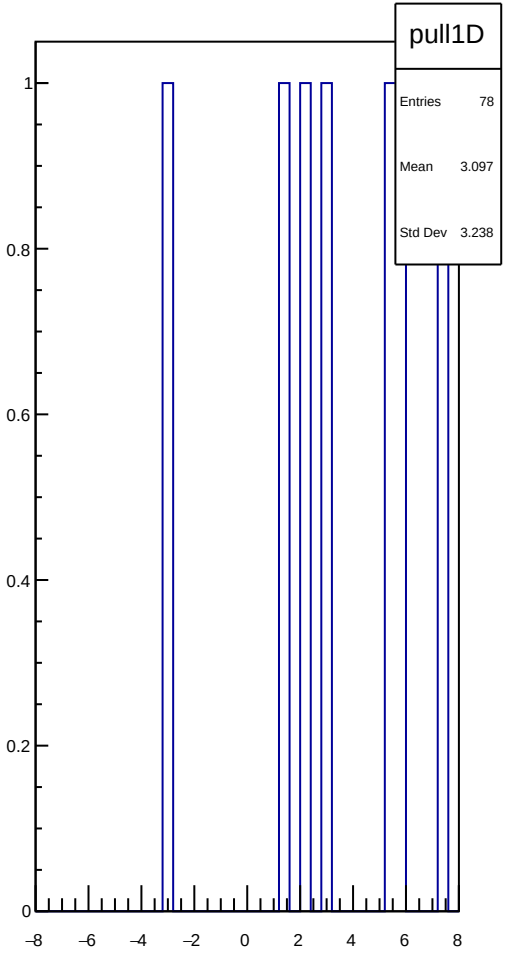

yield_cav4bQ_rms vs run
χ² / ndf 4.595e+05 / 77
p0 0.8382 ± 0.0008155
9
8
7
6
5
4
3
2
1

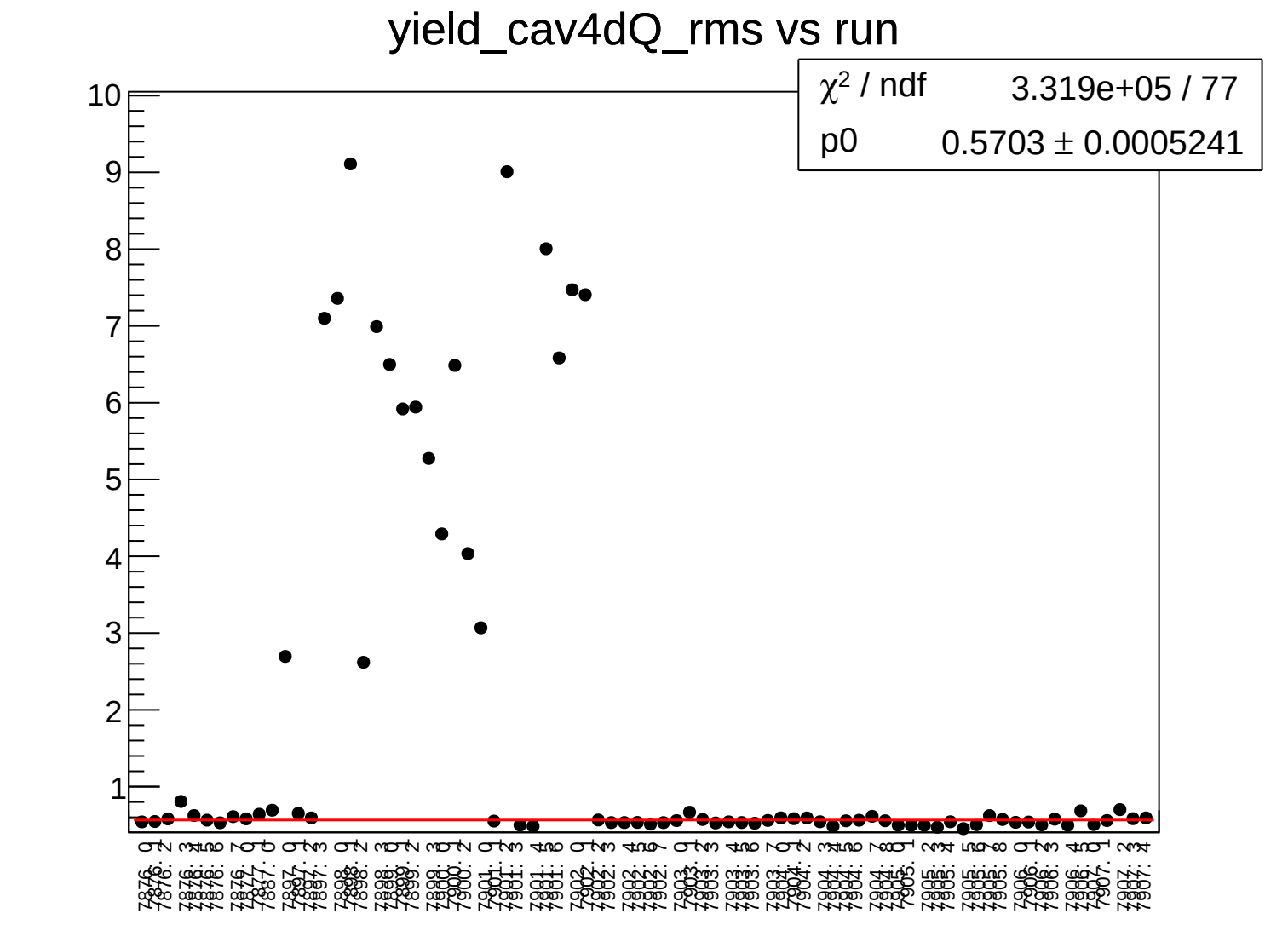

yield_cav4cQ_mean vs run
χ^2 / ndf 1.861e+06 / 77
p0 151.6 ± 0.001006
pull
Entries 78
Mean 31.34
Std Dev 29.17

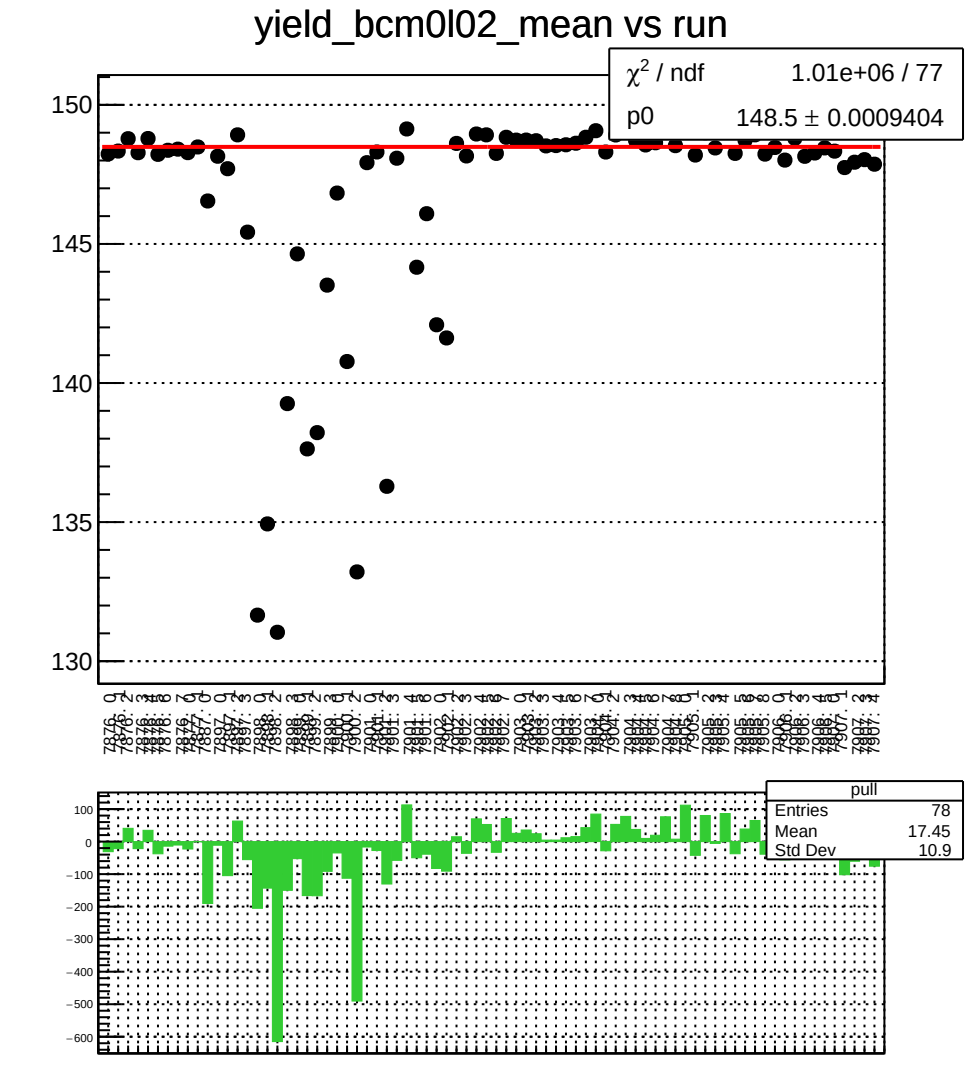

pull1D
Entries 78
Mean −3.159
Std Dev 4.951

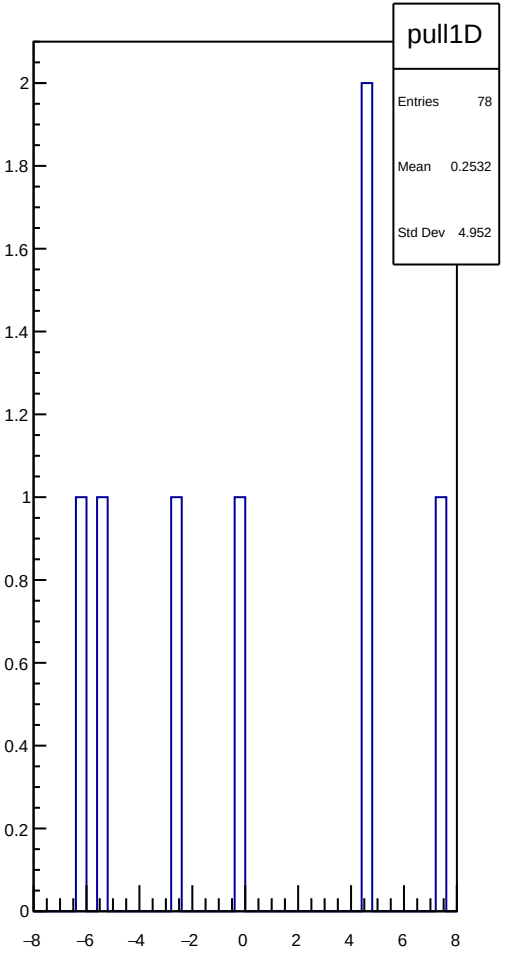

yield_cav4cQ_rms vs run
χ^2 / ndf 4.514e+05 / 77
p0 0.7342 ± 0.0007115
10
8
6
4
2

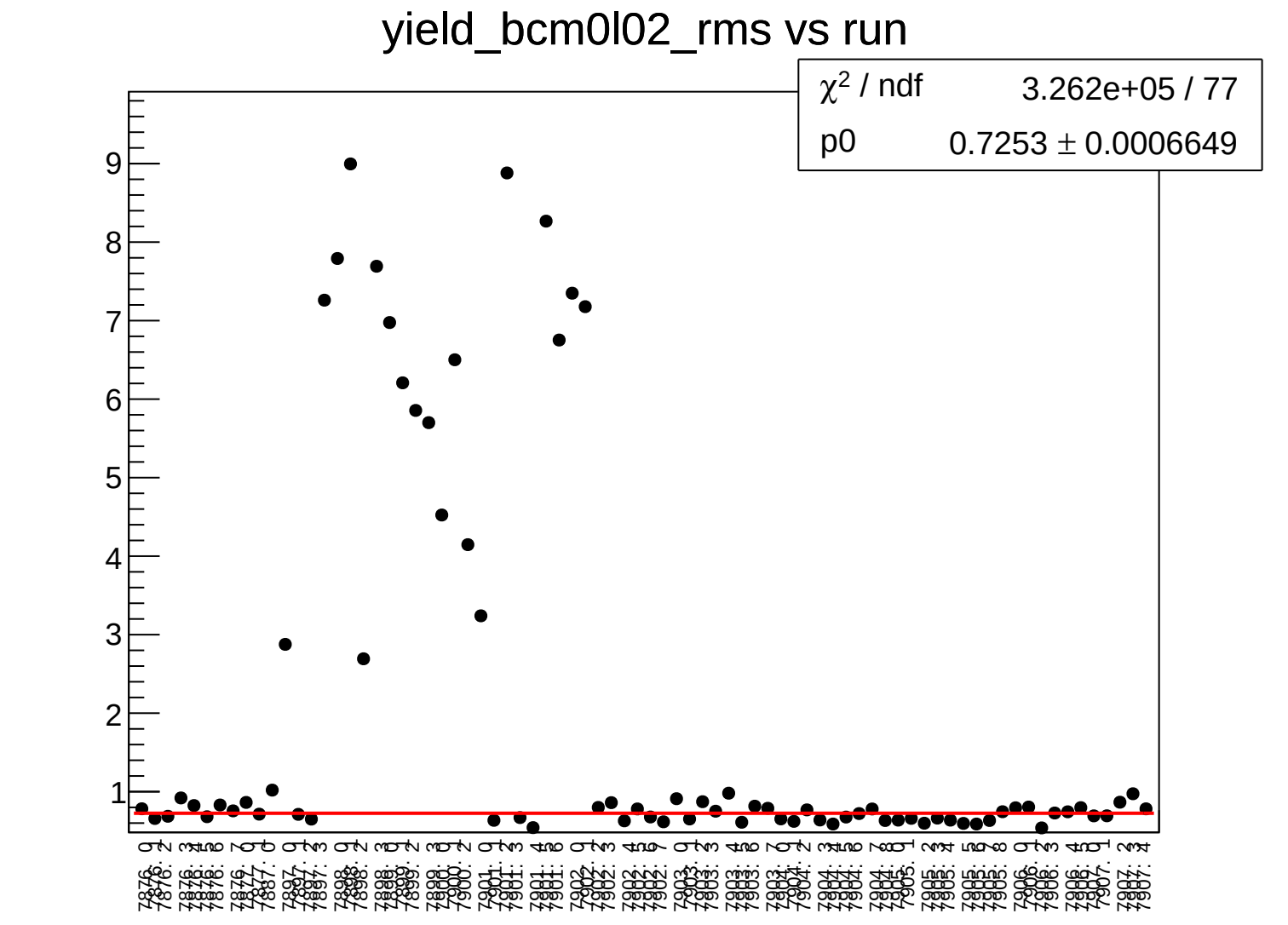

yield_cav4dQ_mean vs run
χ² / ndf 1.145e+06 / 77
p0 146.4 ± 0.0007412
148
146
144
142
140
138
136
134
132
130
pull
Entries 78
Mean 17.91
Std Dev 23.61
100
0
−100
−200
−300
−400
−500
−600

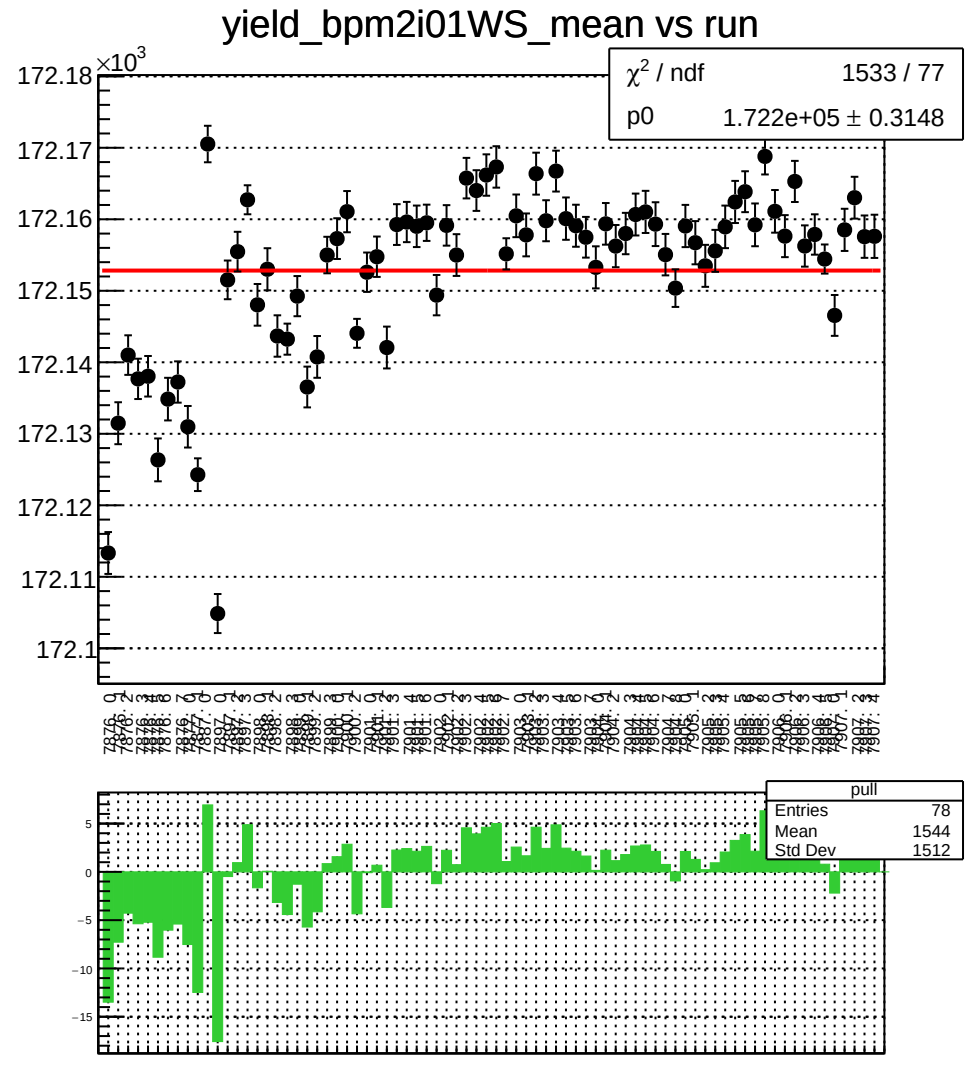

pull1D
Entries 78
Mean 3.097
Std Dev 3.238
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

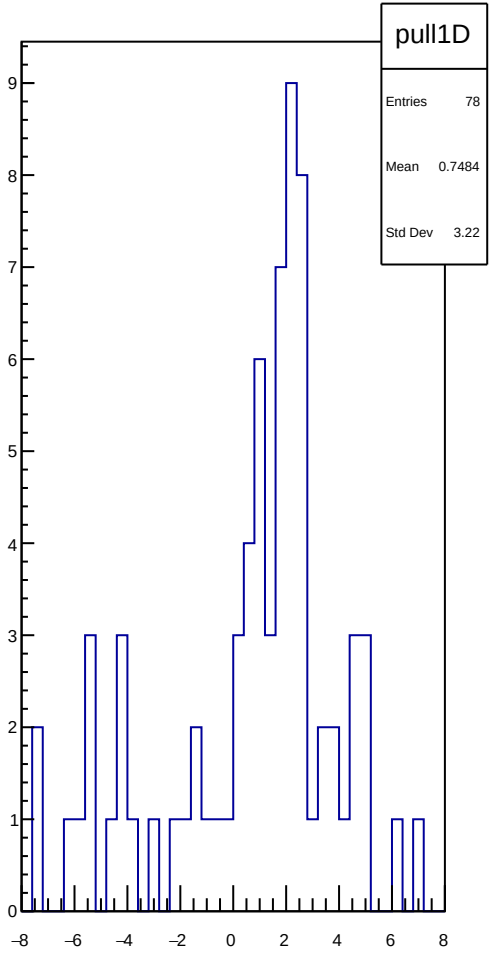

yield_cav4dQ_rms vs run
χ² / ndf 3.319e+05 / 77
p0 0.5703 ± 0.0005241
10
9
8
7
6
5
4
3
2
1

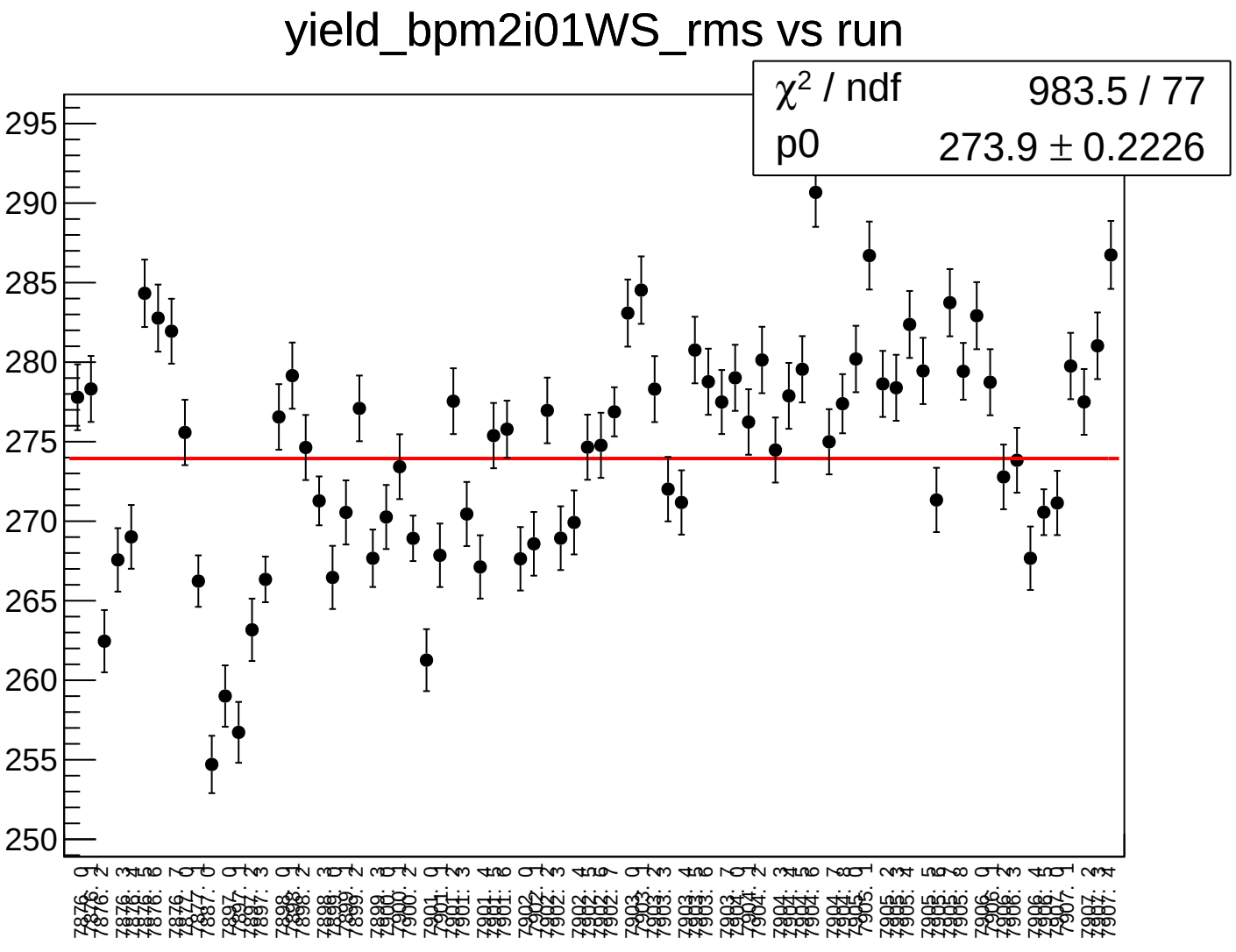

yield_bcm0l02_mean vs run
χ² / ndf 1.01e+06 / 77
p0 148.5 ± 0.0009404
150
145
140
135
130
pull
Entries 78
Mean 17.45
Std Dev 10.9
100
0
−100
−200
−300
−400
−500
−600

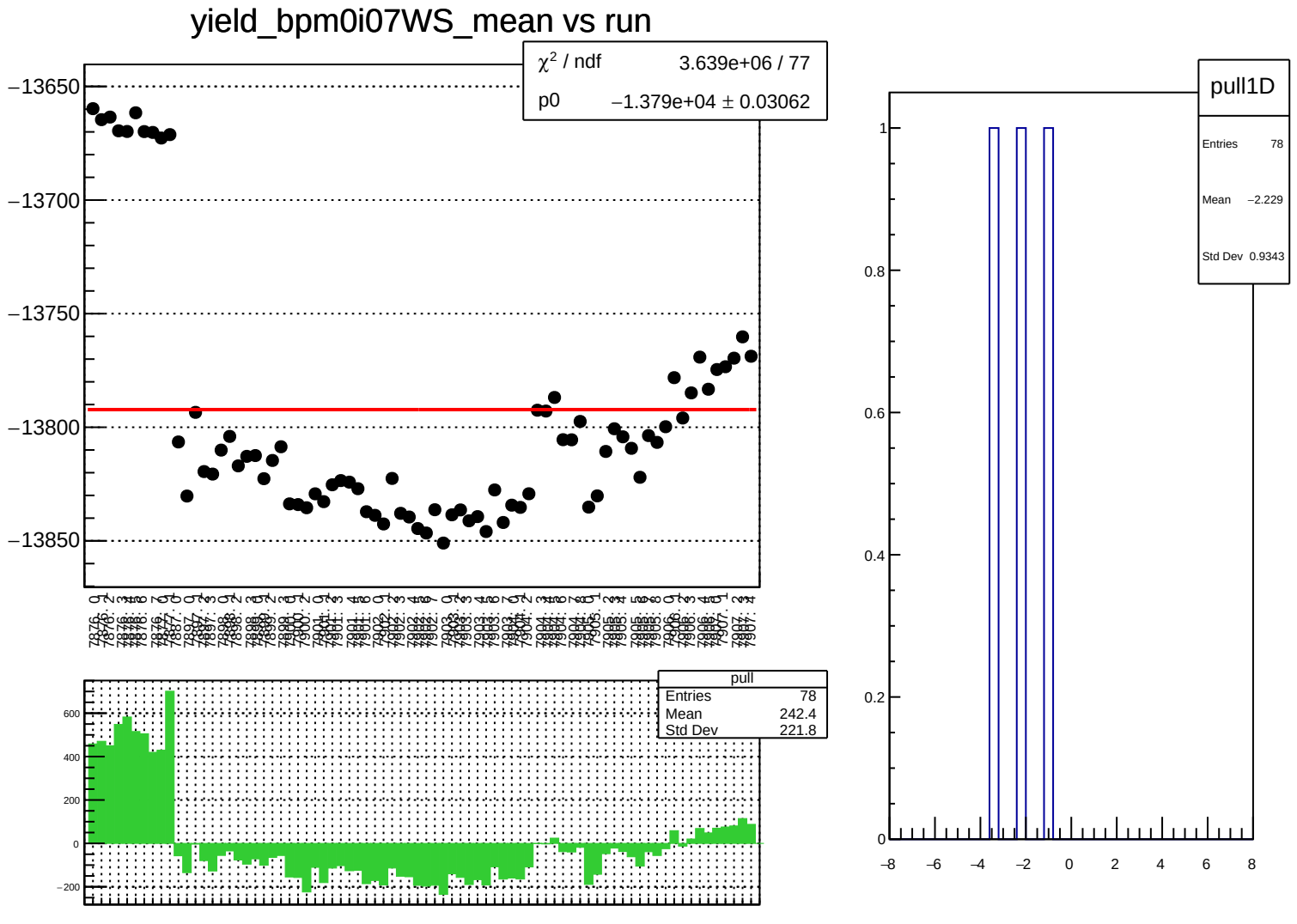

pull1D
Entries 78
Mean 0.2532
Std Dev 4.952
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

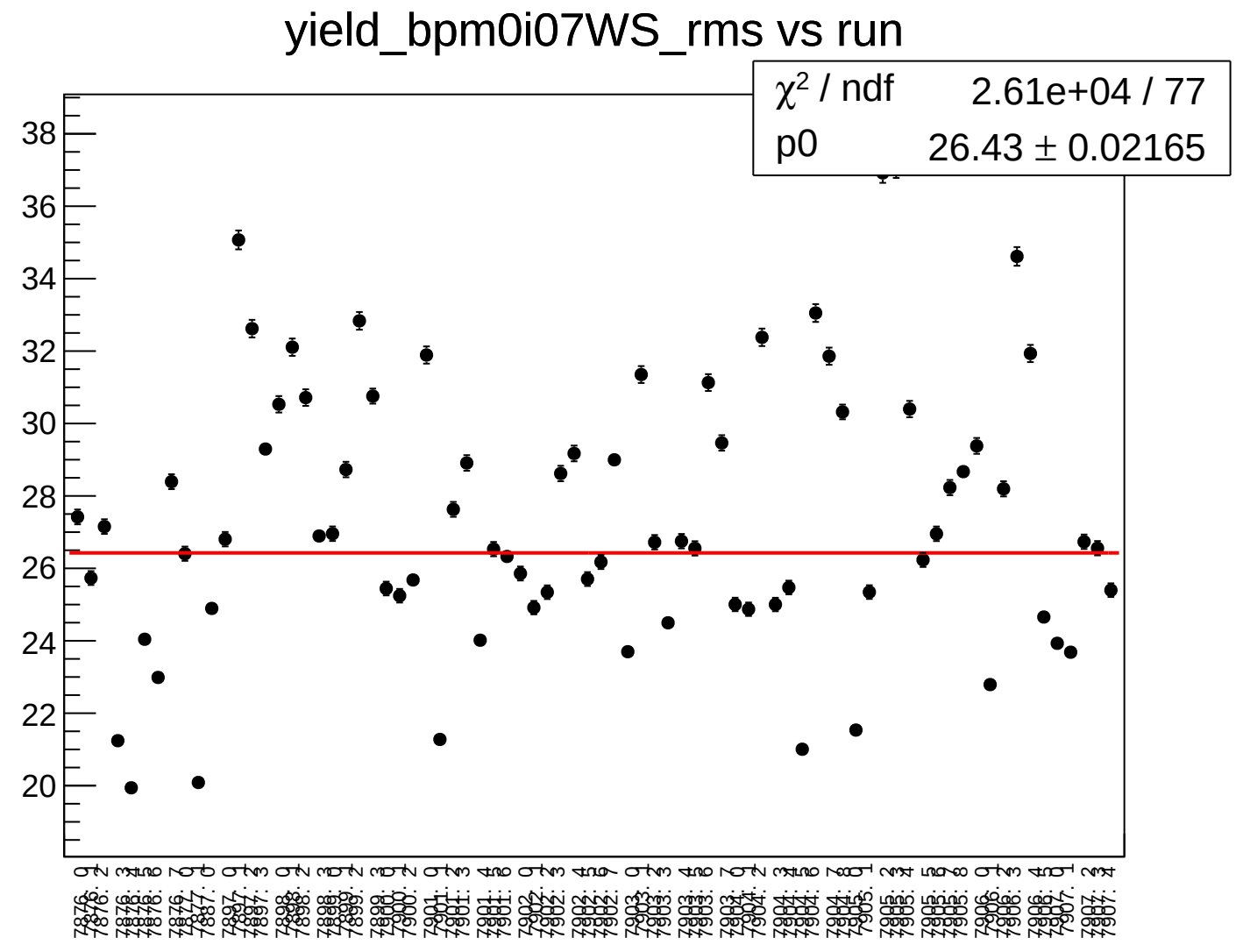

yield_bcm0l02_rms vs run
χ² / ndf 3.262e+05 / 77
p0 0.7253 ± 0.0006649
9
8
7
6
5
4
3
2
1

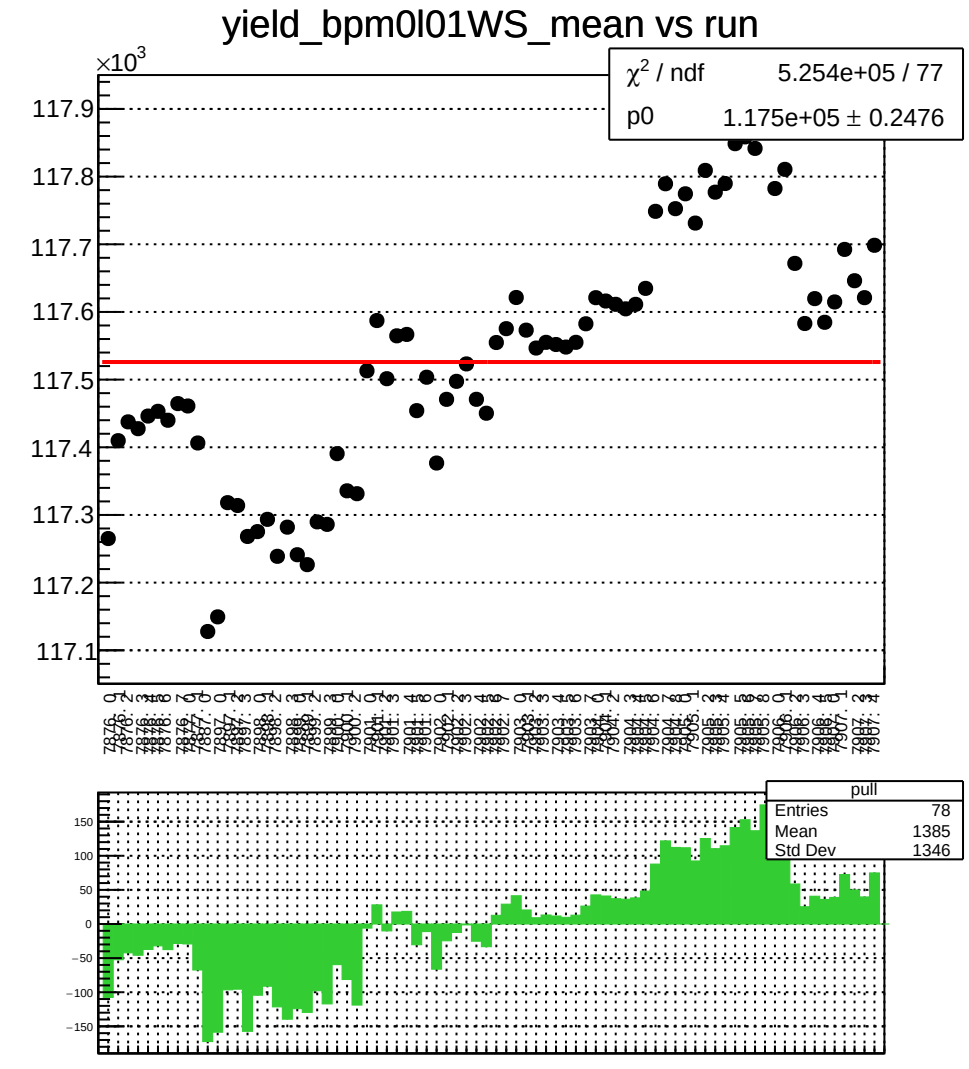

yield_bpm2i01WS_mean vs run
×10^3
172.18
172.17
172.16
172.15
172.14
172.13
172.12
172.11
172.1
χ² / ndf 1533 / 77
p0 1.722e+05 ± 0.3148
pull
Entries 78
Mean 1544
Std Dev 1512
5
0
−5
−10
−15

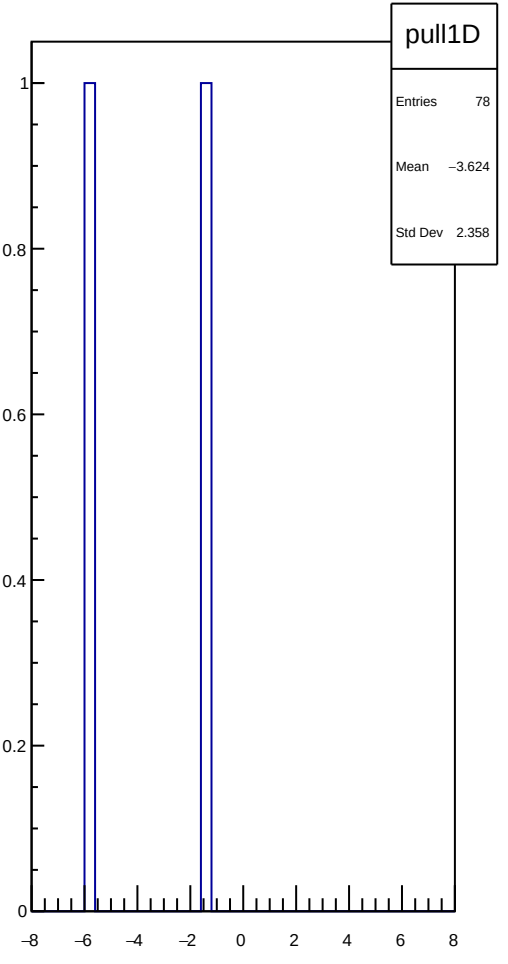

pull1D
Entries 78
Mean 0.7484
Std Dev 3.22
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

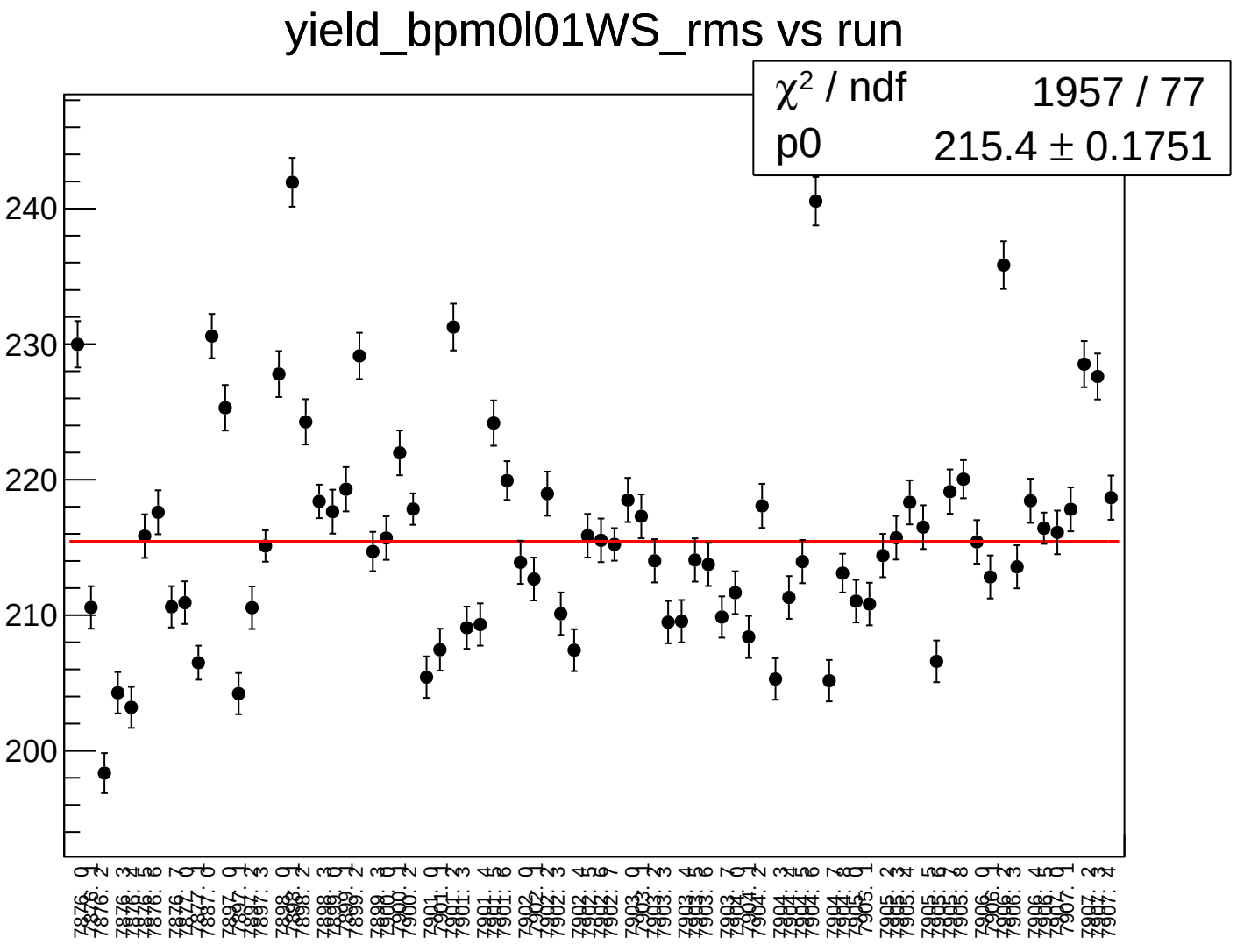

yield_bpm2i01WS_rms vs run
χ² / ndf 983.5 / 77
p0 273.9 ± 0.2226
295
290
285
280
275
270
265
260
255
250

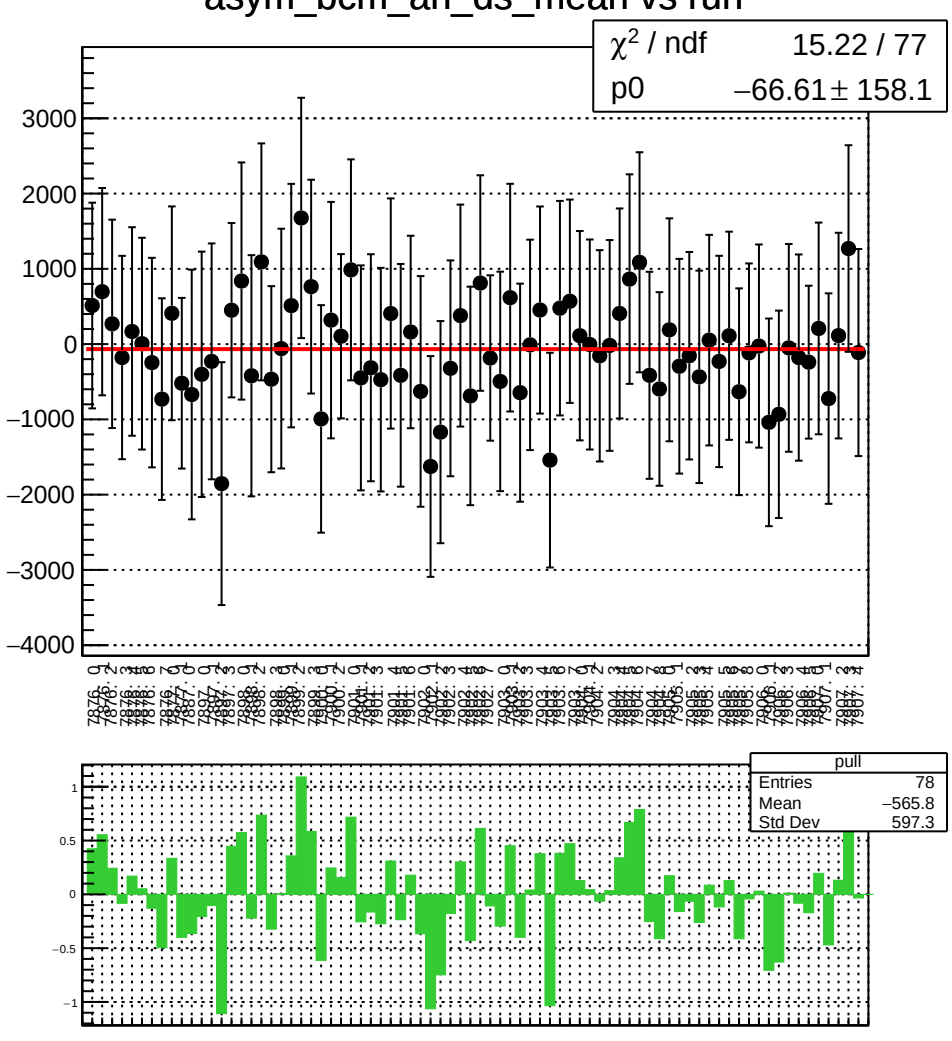

yield_bpm0i07WS_mean vs run
χ² / ndf 3.639e+06 / 77
p0 −1.379e+04 ± 0.03062
−13650
−13700
−13750
−13800
−13850
pull
Entries 78
Mean 242.4
Std Dev 221.8
600
400
200
0
−200
pull1D
Entries 78
Mean −2.229
Std Dev 0.9343
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

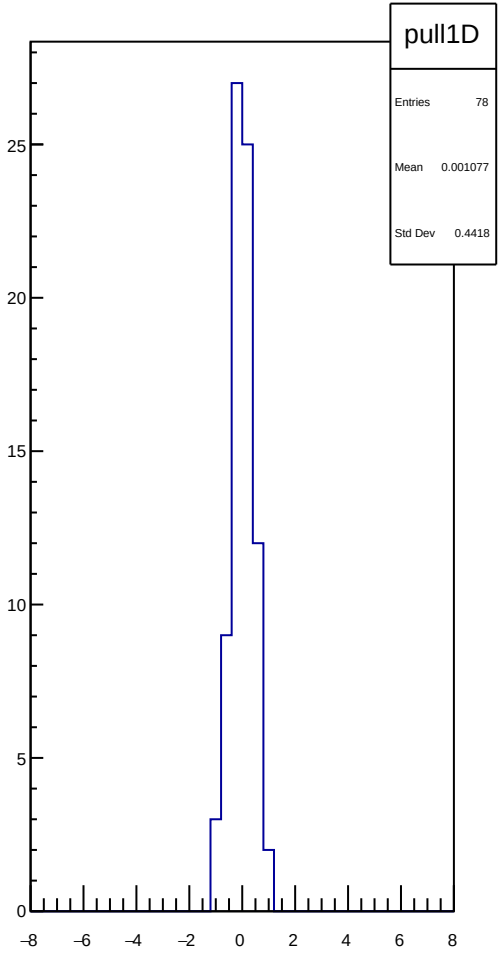

yield_bpm0i07WS_rms vs run
χ² / ndf 2.61e+04 / 77
p0 26.43 ± 0.02165
38
36
34
32
30
28
26
24
22
20

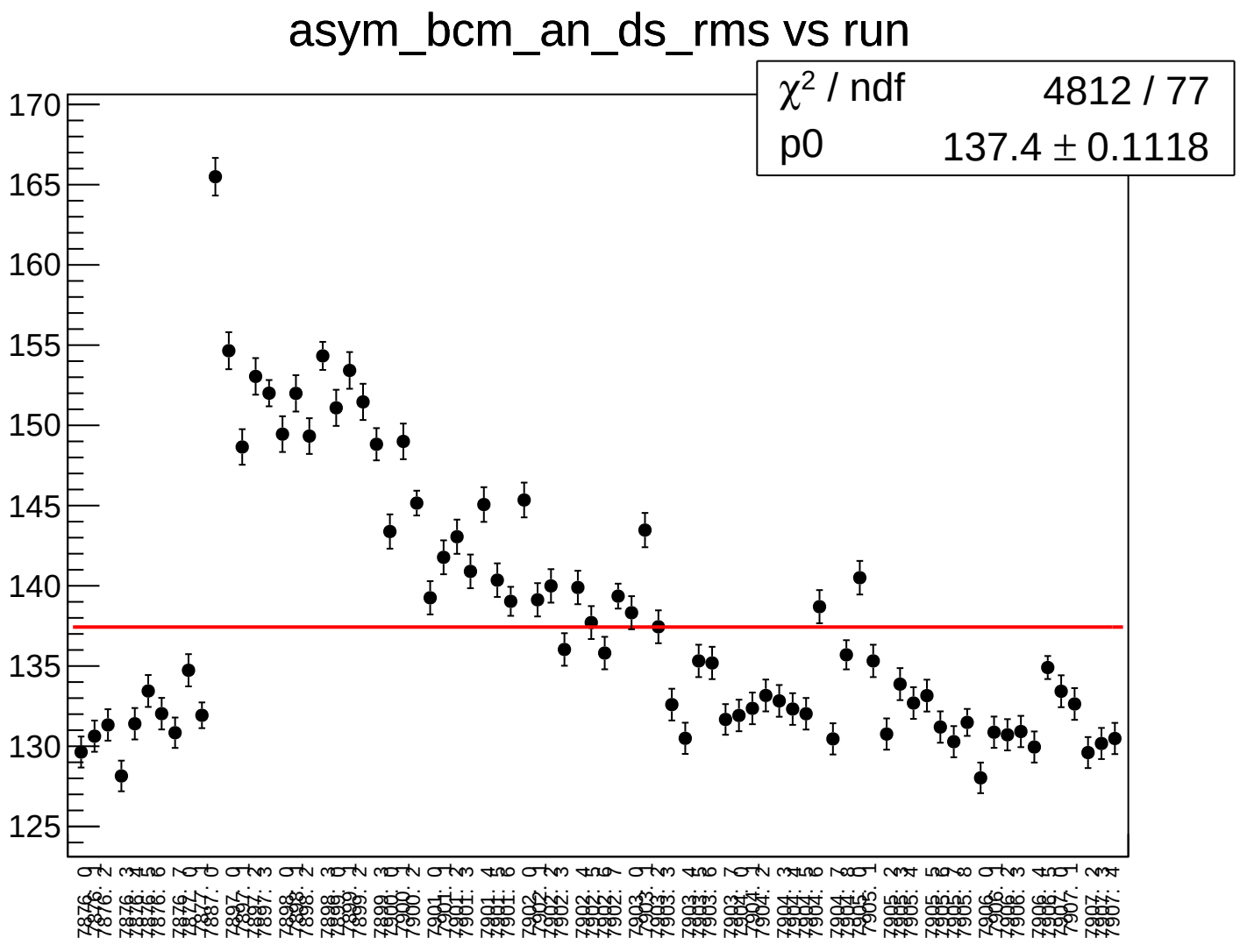

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 5.254e+05 / 77
p0 1.175e+05 ± 0.2476
117.9
117.8
117.7
117.6
117.5
117.4
117.3
117.2
117.1
pull
Entries 78
Mean 1385
Std Dev 1346
150
100
50
0
−50
−100
−150

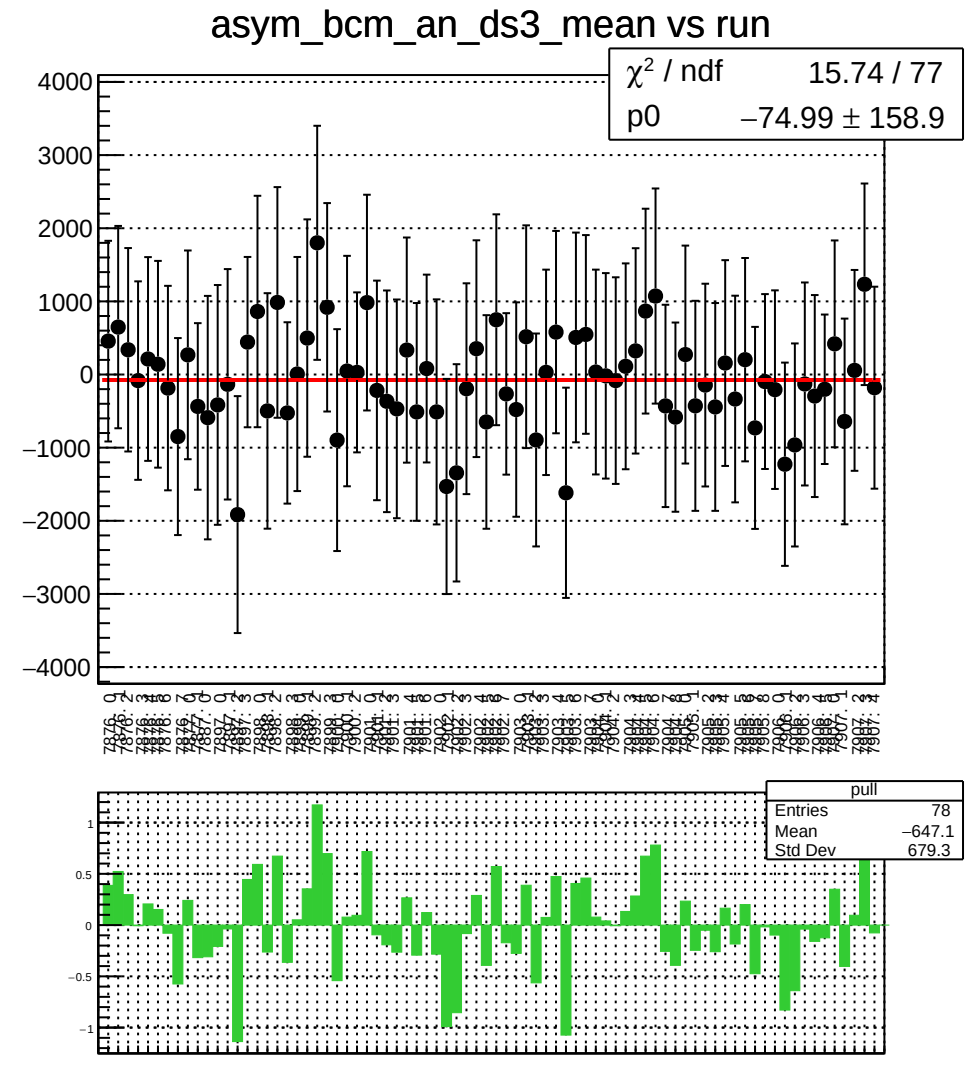

pull1D
Entries 78
Mean −3.624
Std Dev 2.358
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

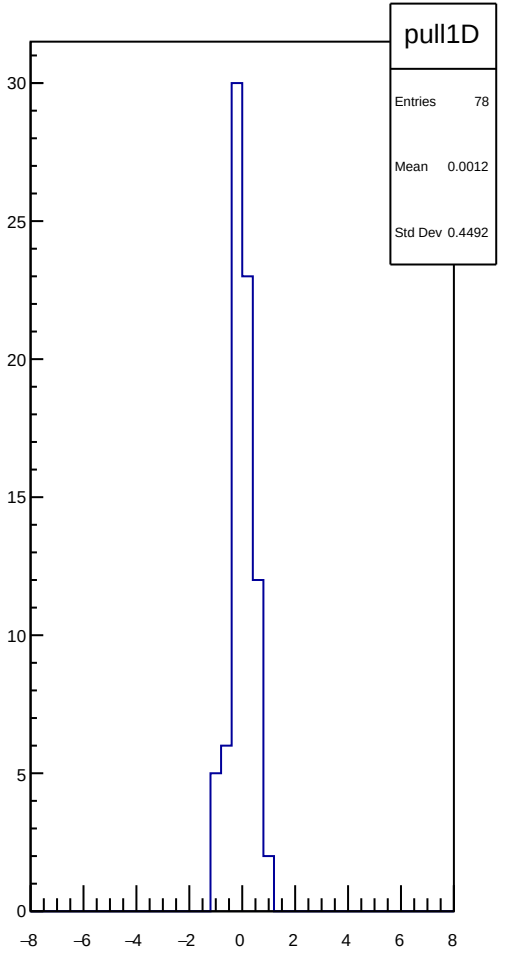

yield_bpm0l01WS_rms vs run
χ² / ndf 1957 / 77
p0 215.4 ± 0.1751
240
230
220
210
200

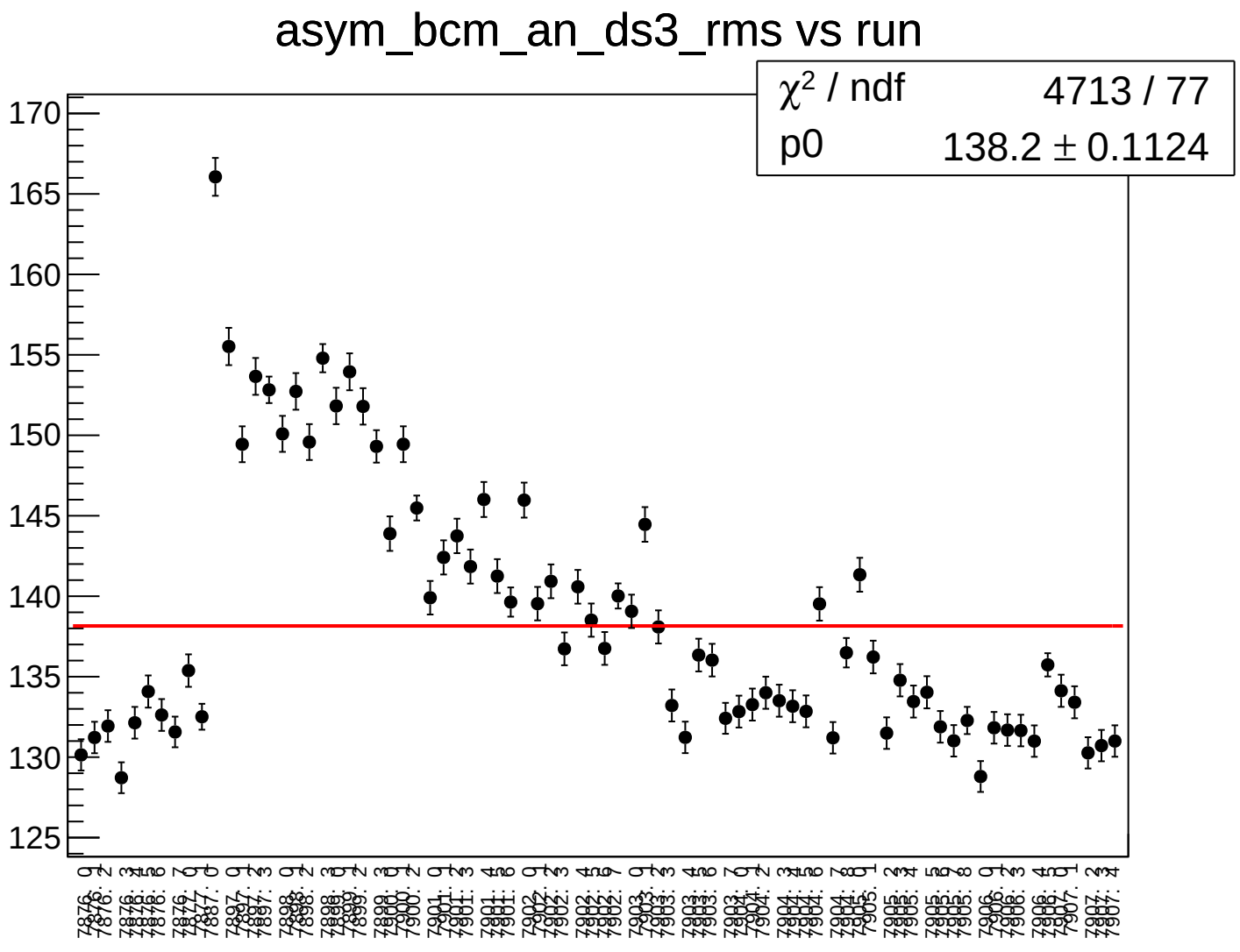

asym_bcm_an_ds_mean vs run
χ² / ndf 15.22 / 77
p0 −66.61 ± 158.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 78
Mean −565.8
Std Dev 597.3
1
0.5
0
−0.5
−1

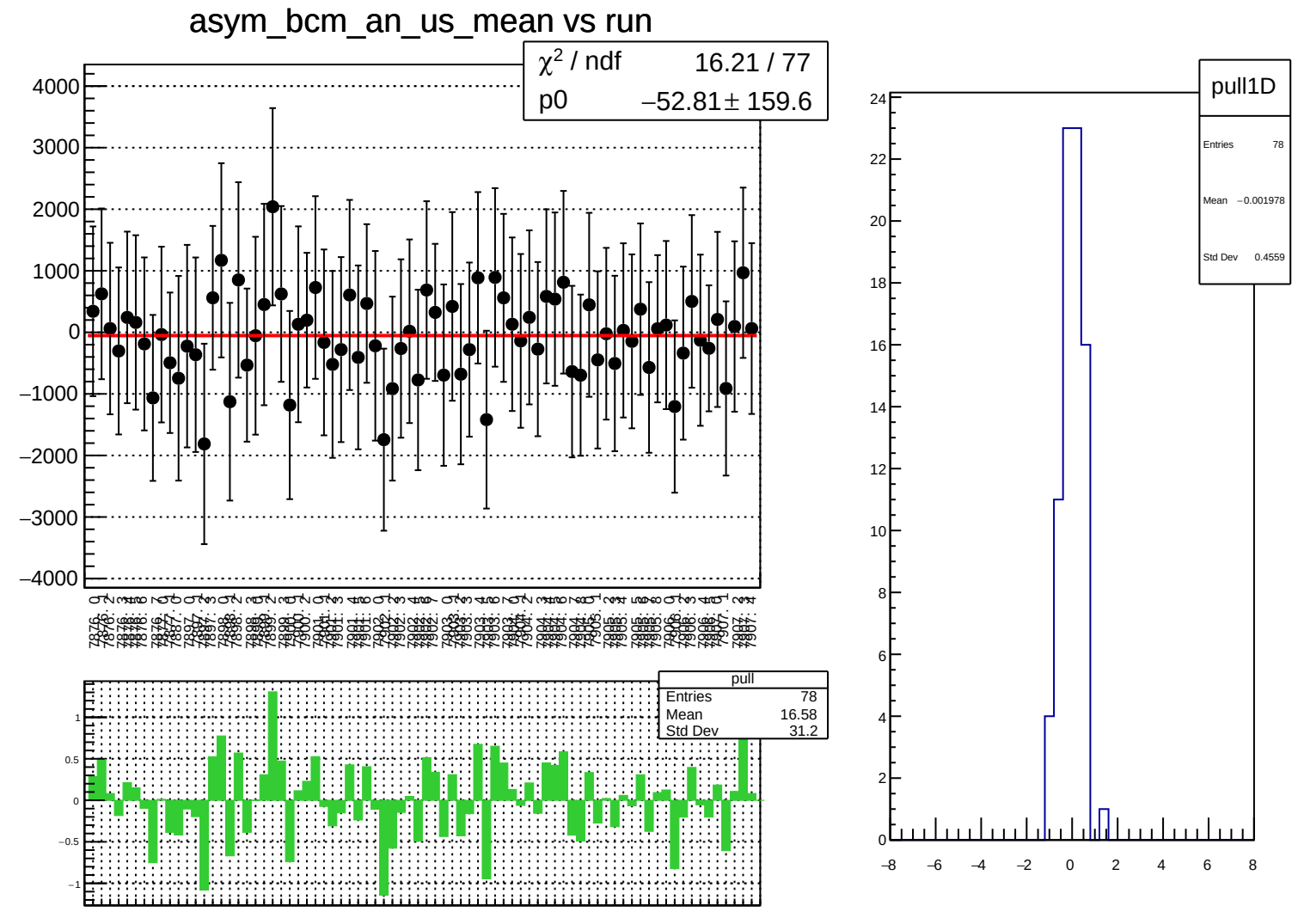

pull1D
Entries 78
Mean 0.001077
Std Dev 0.4418
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

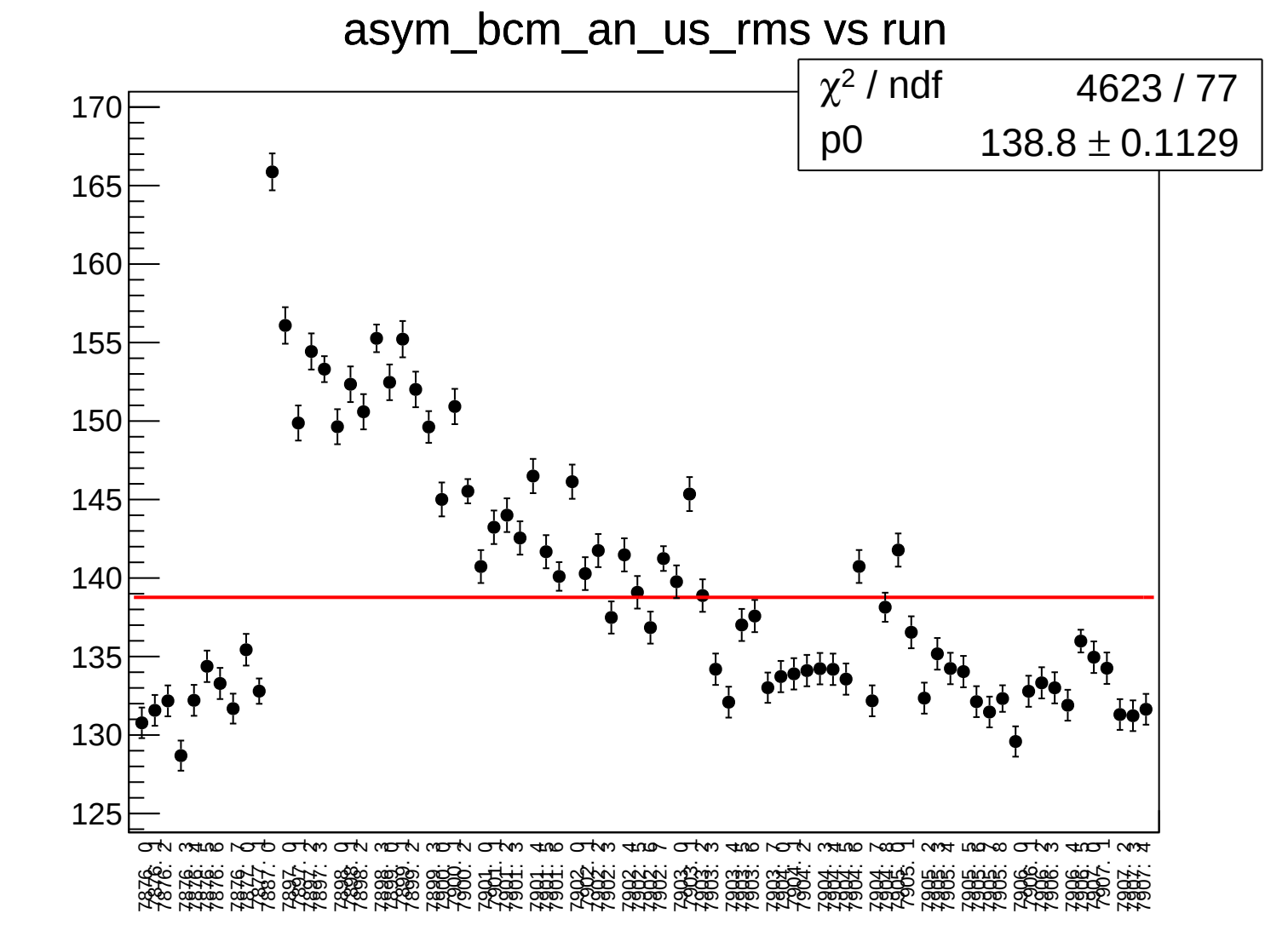

asym_bcm_an_ds_rms vs run
χ² / ndf 4812 / 77
p0 137.4 ± 0.1118
170
165
160
155
150
145
140
135
130
125

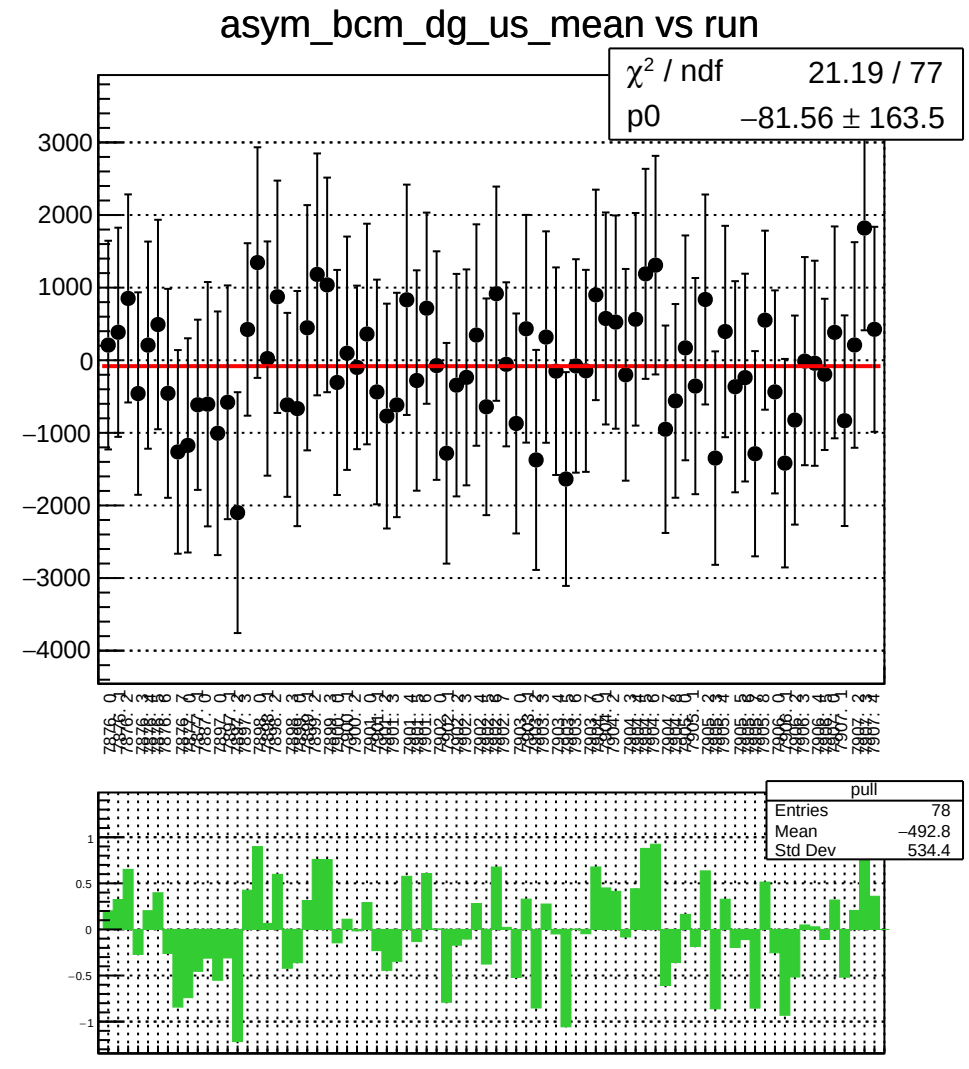

asym_bcm_an_ds3_mean vs run
χ² / ndf 15.74 / 77
p0 −74.99 ± 158.9
pull
Entries 78
Mean −647.1
Std Dev 679.3

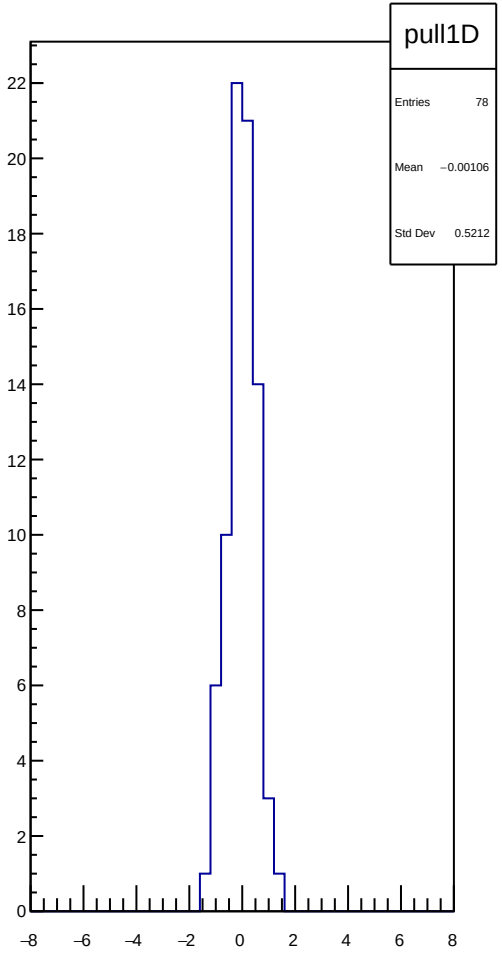

pull1D
Entries 78
Mean 0.0012
Std Dev 0.4492

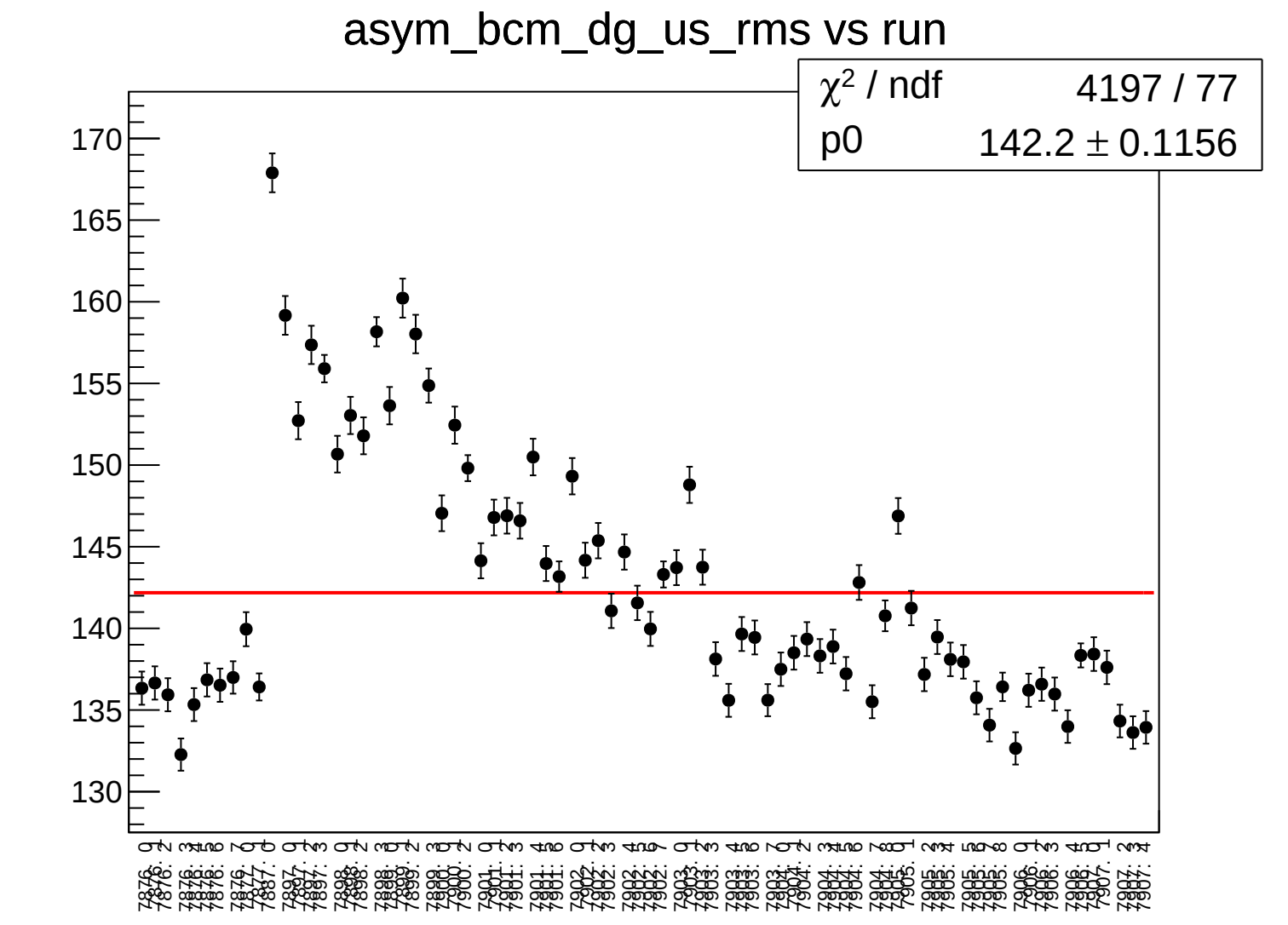

asym_bcm_an_ds3_rms vs run
χ² / ndf 4713 / 77
p0 138.2 ± 0.1124
170
165
160
155
150
145
140
135
130
125

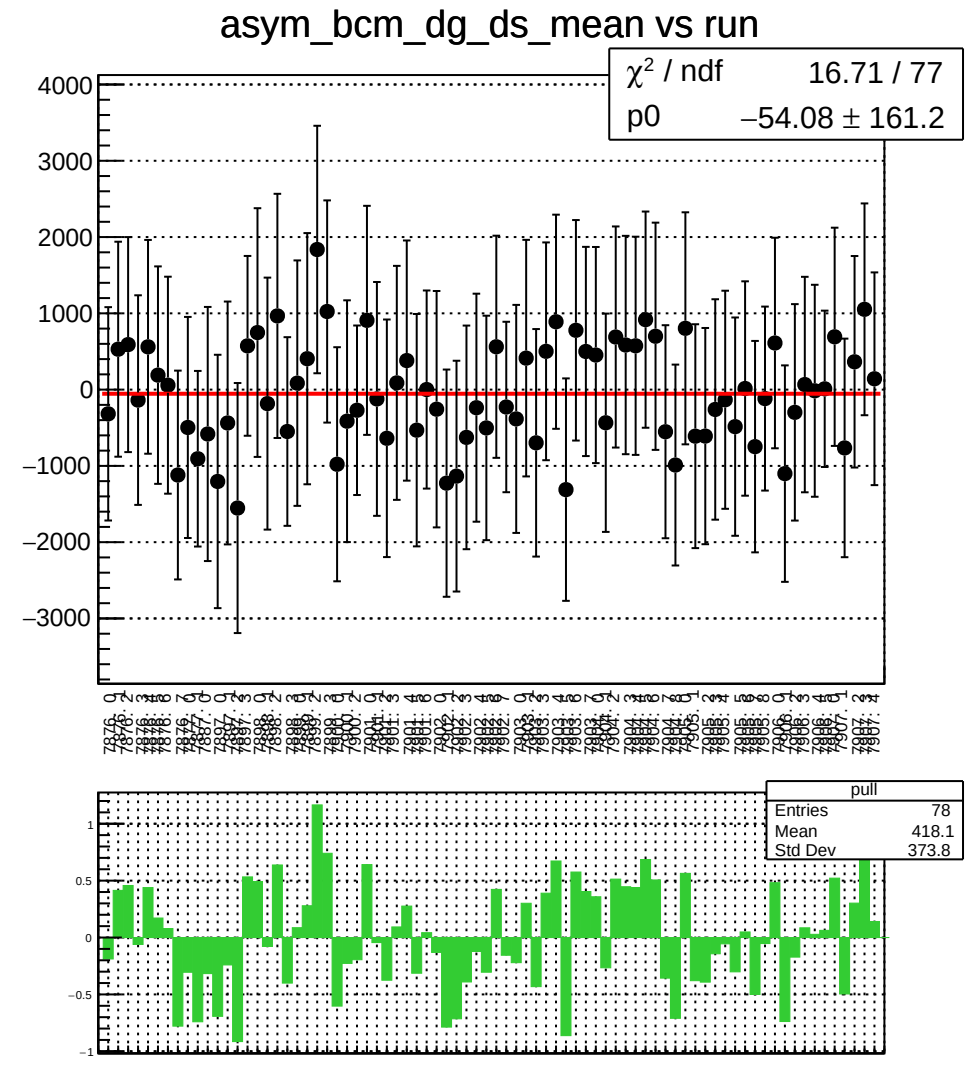

asym_bcm_an_us_mean vs run
χ² / ndf 16.21 / 77
p0 −52.81 ± 159.6
pull
Entries 78
Mean 16.58
Std Dev 31.2
pull1D
Entries 78
Mean −0.001978
Std Dev 0.4559

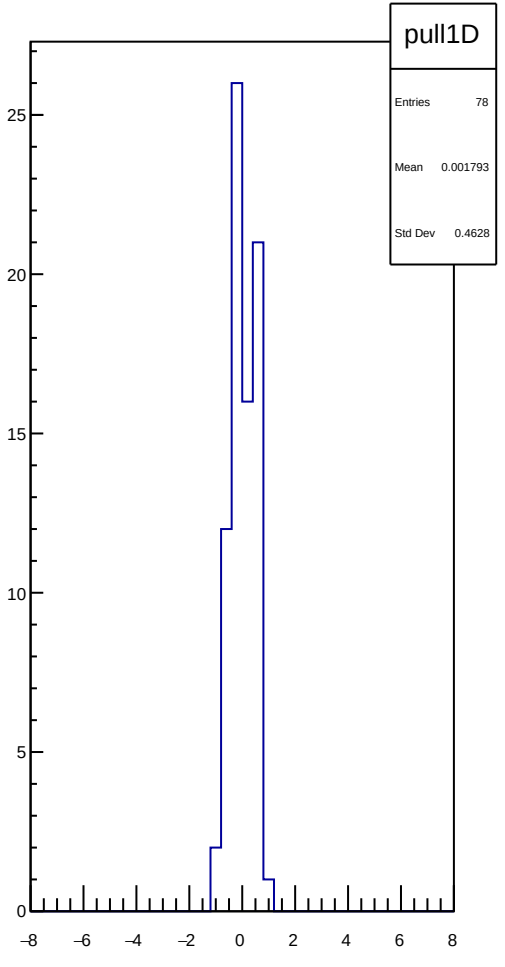

asym_bcm_an_us_rms vs run
χ² / ndf 4623 / 77
p0 138.8 ± 0.1129
170
165
160
155
150
145
140
135
130
125

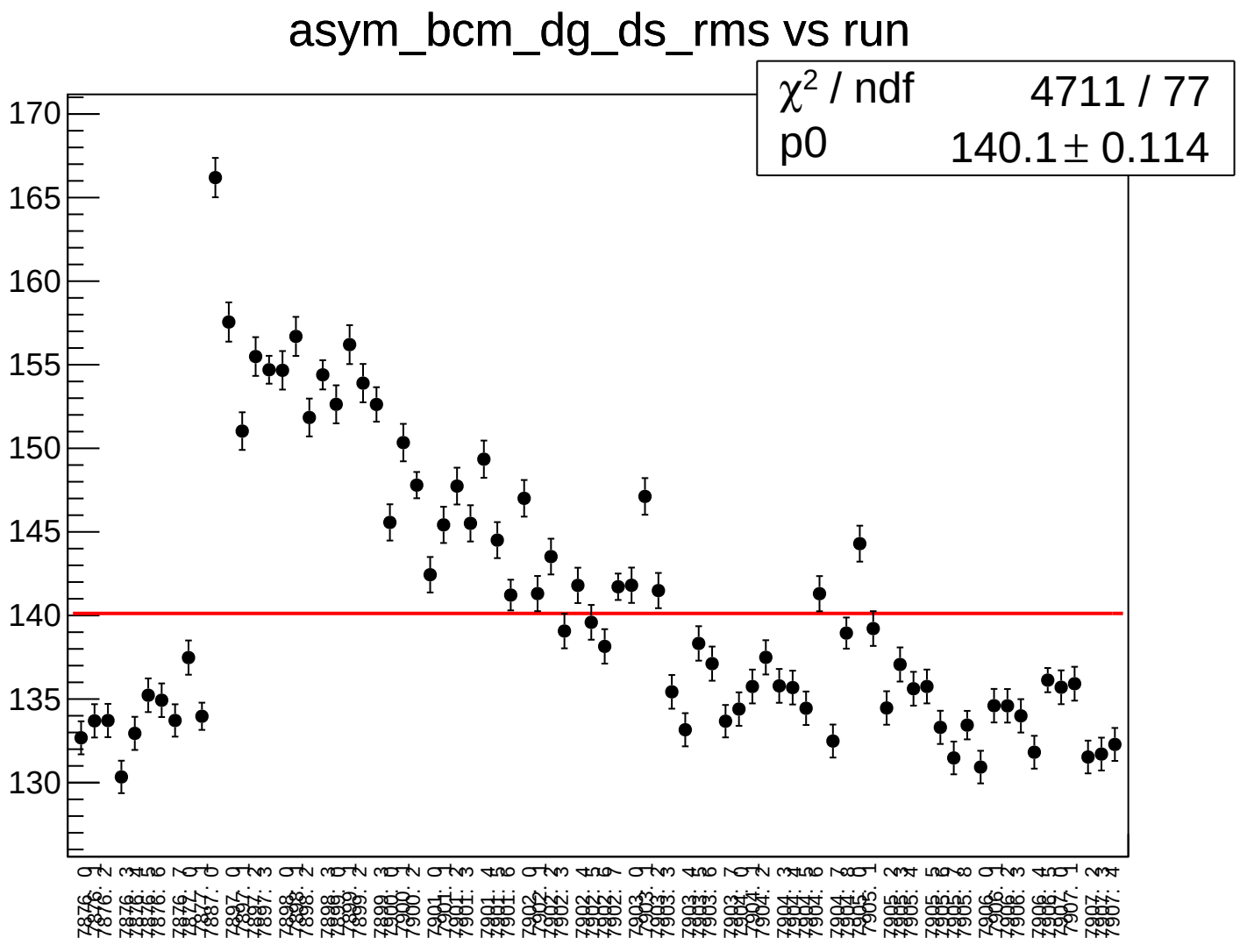

asym_bcm_dg_us_mean vs run
χ² / ndf 21.19 / 77
p0 −81.56 ± 163.5
pull
Entries 78
Mean −492.8
Std Dev 534.4

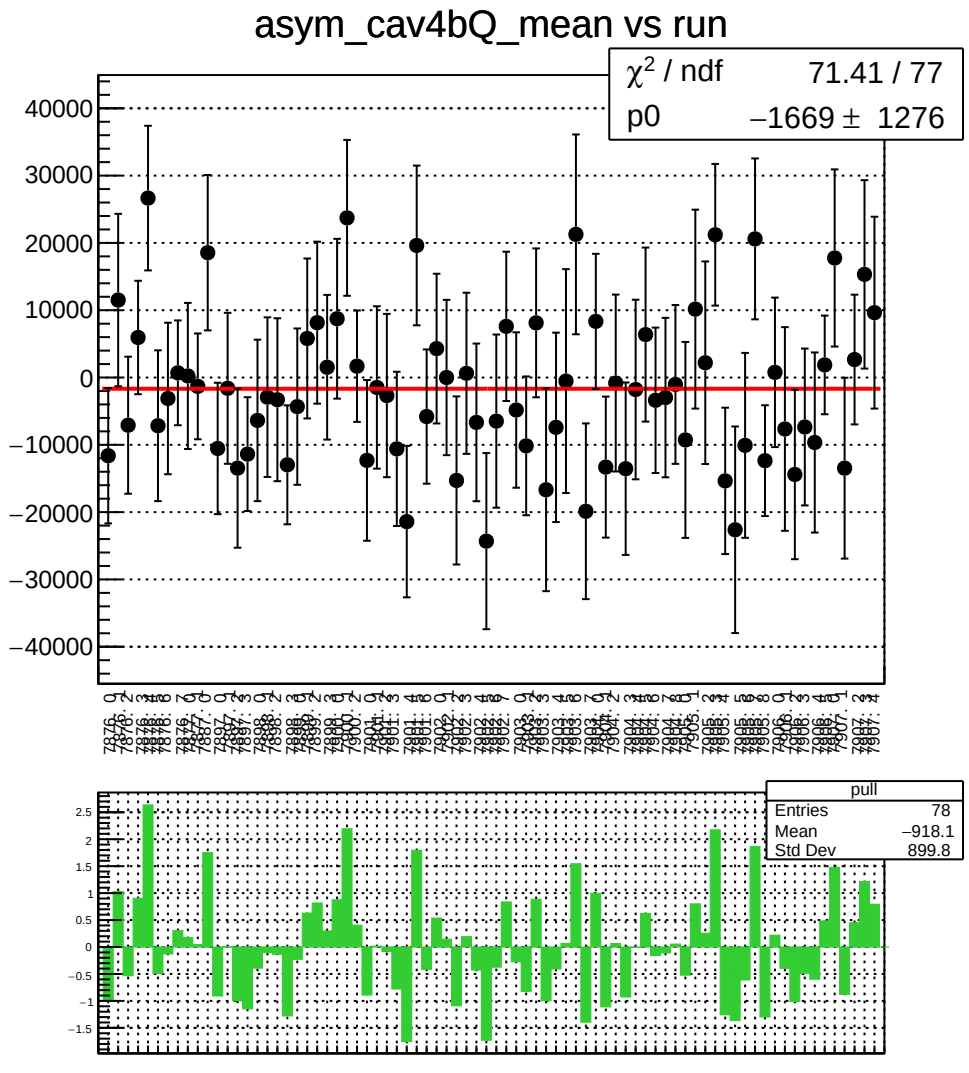

pull1D
Entries 78
Mean −0.00106
Std Dev 0.5212

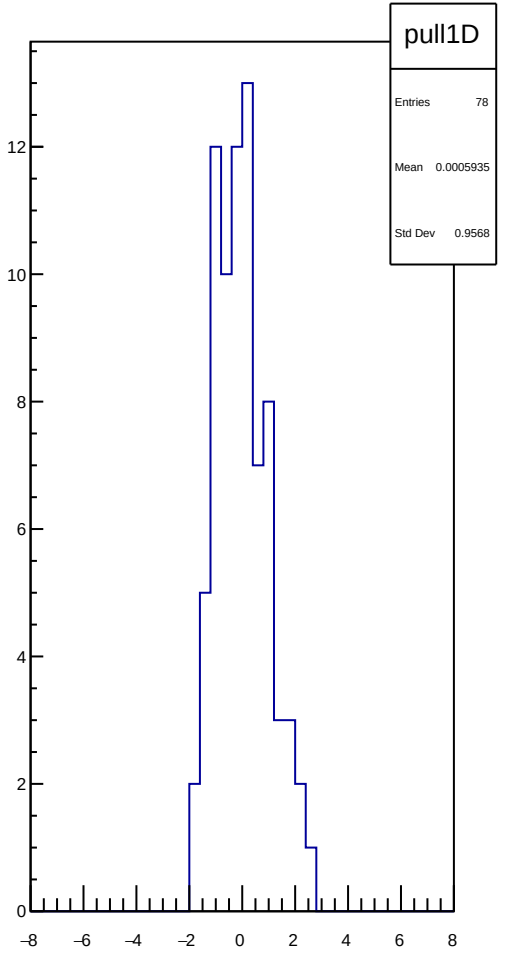

asym_bcm_dg_us_rms vs run
χ^2 / ndf 4197 / 77
p0 142.2 ± 0.1156
170
165
160
155
150
145
140
135
130

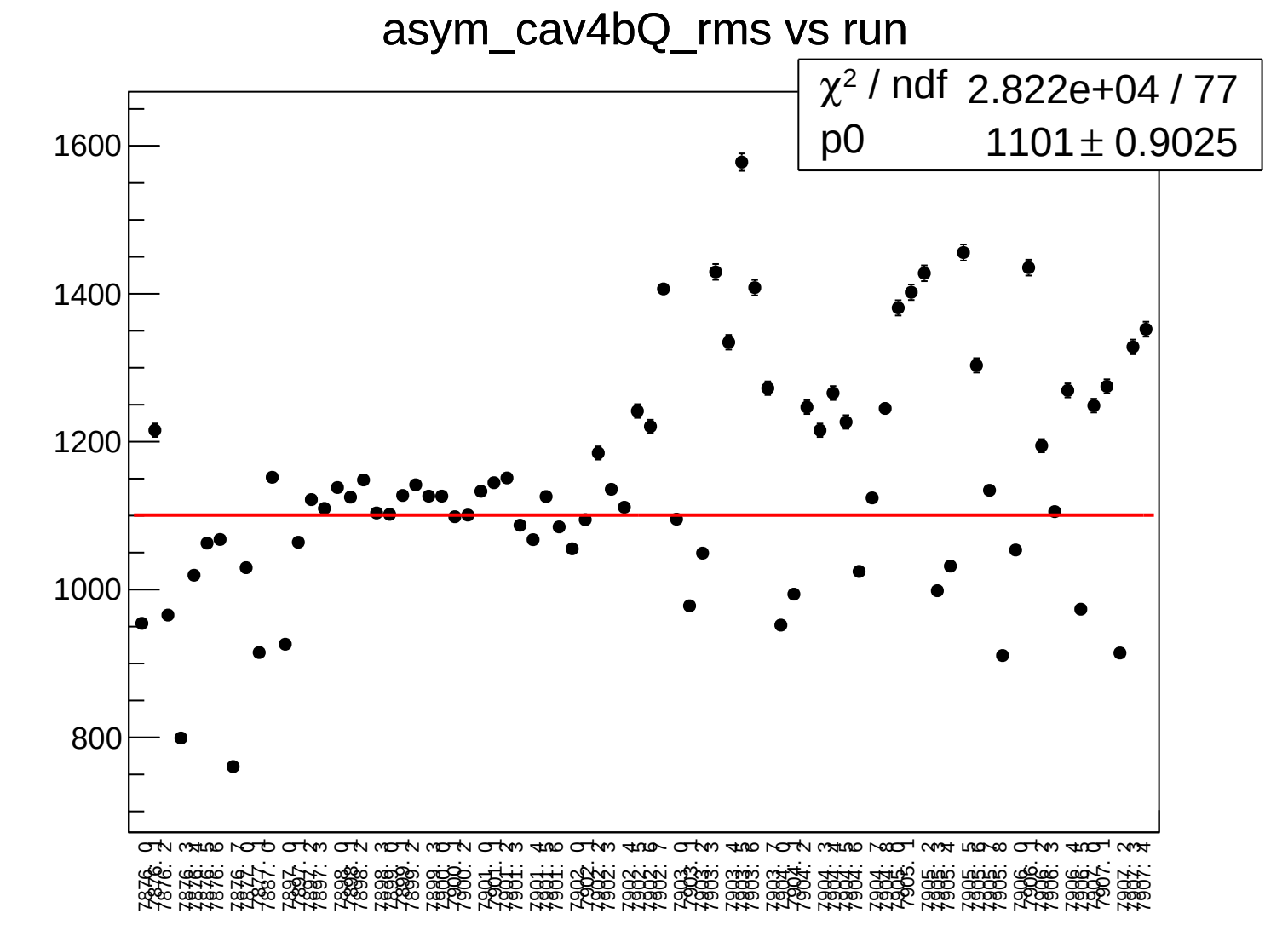

asym_bcm_dg_ds_mean vs run
χ² / ndf 16.71 / 77
p0 −54.08 ± 161.2
pull
Entries 78
Mean 418.1
Std Dev 373.8

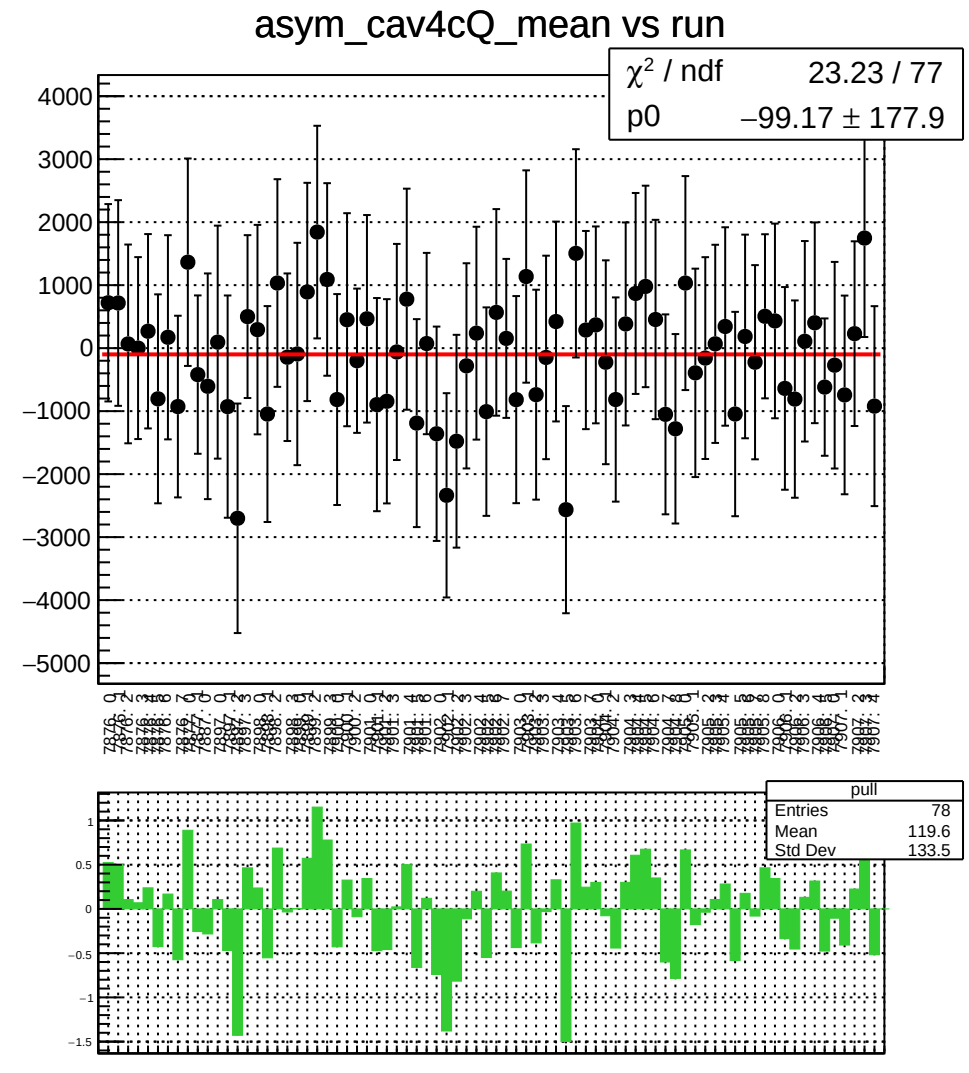

pull1D
Entries 78
Mean 0.001793
Std Dev 0.4628

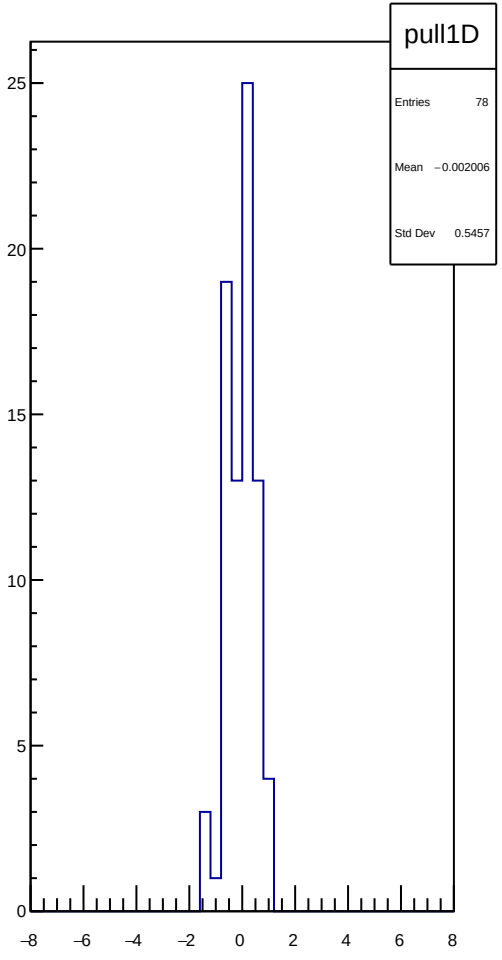

asym_bcm_dg_ds_rms vs run
χ² / ndf 4711 / 77
p0 140.1 ± 0.114
170
165
160
155
150
145
140
135
130

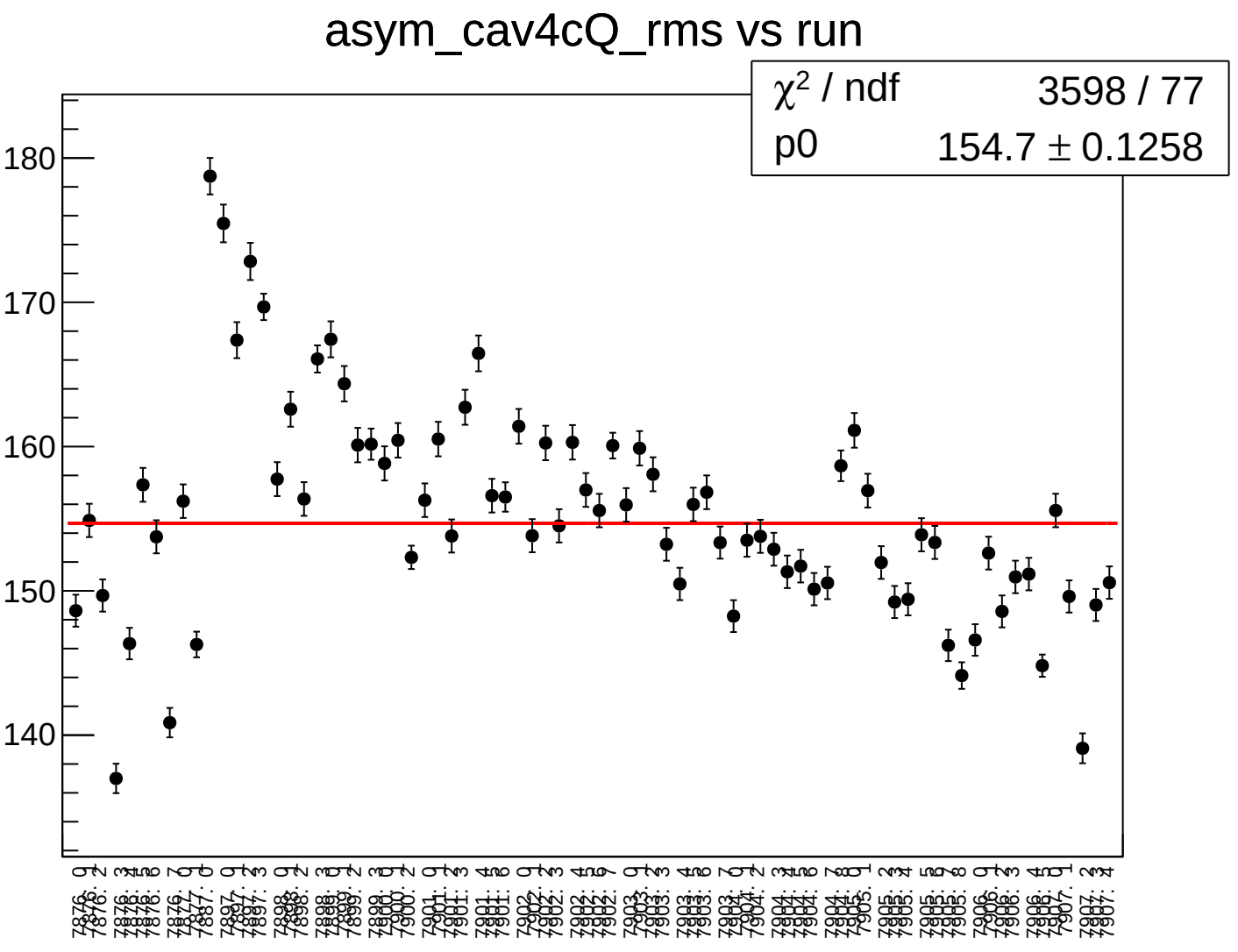

asym_cav4bQ_mean vs run
χ² / ndf 71.41 / 77
p0 −1669 ± 1276
pull
Entries 78
Mean −918.1
Std Dev 899.8

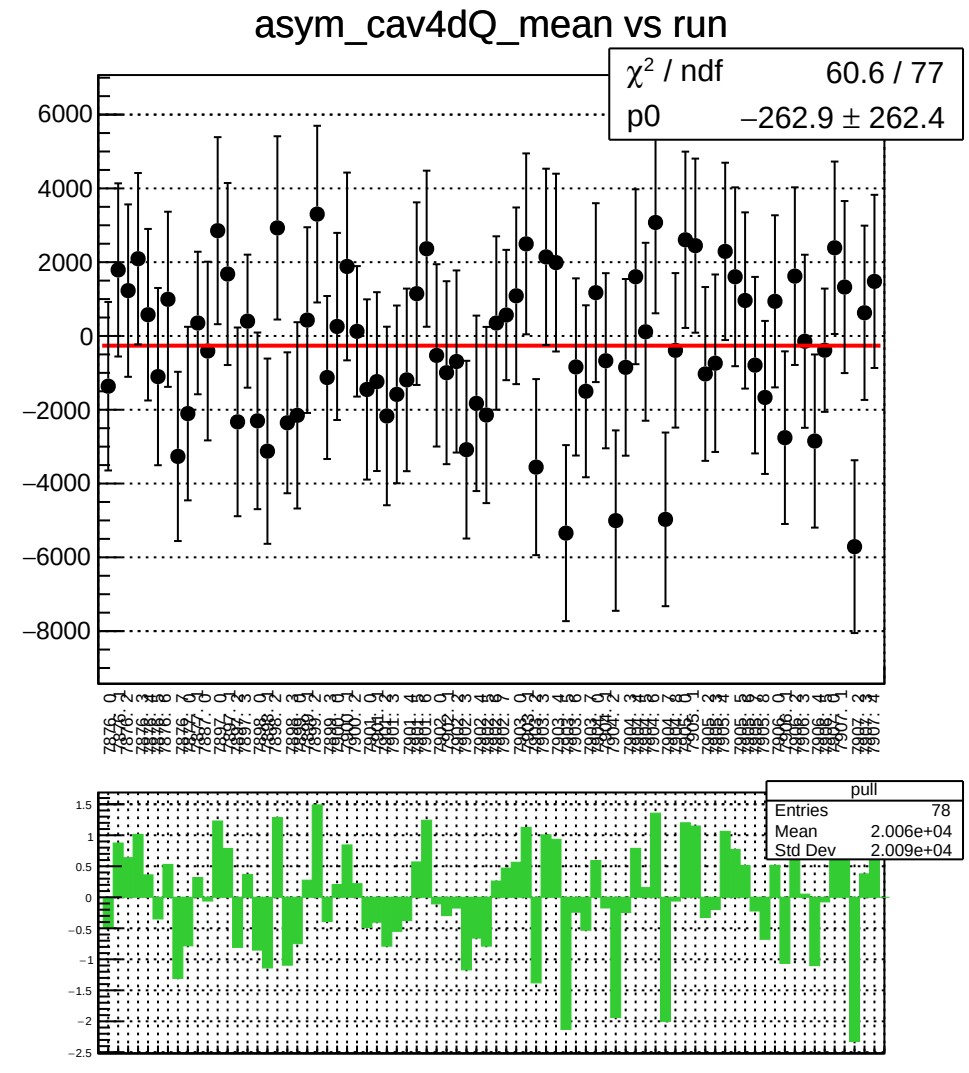

pull1D
Entries 78
Mean 0.0005935
Std Dev 0.9568

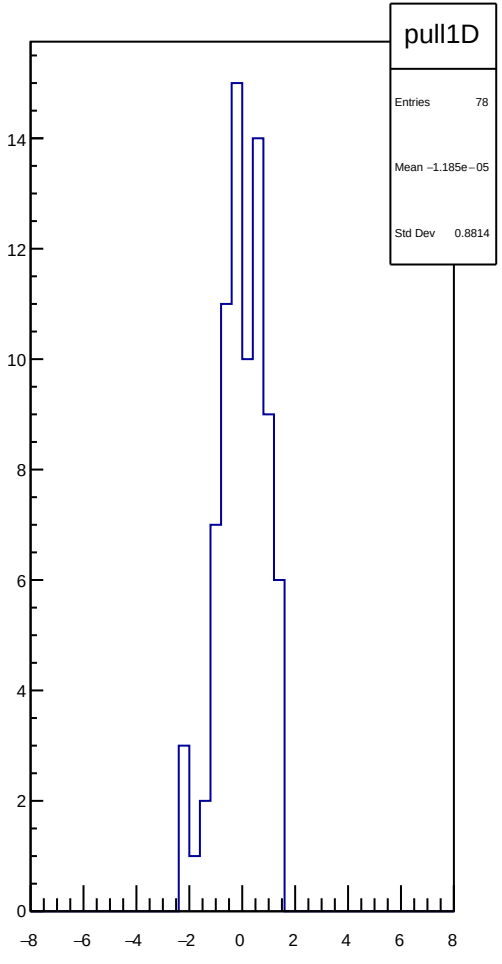

asym_cav4bQ_rms vs run
χ² / ndf 2.822e+04 / 77
p0 1101 ± 0.9025
1600
1400
1200
1000
800

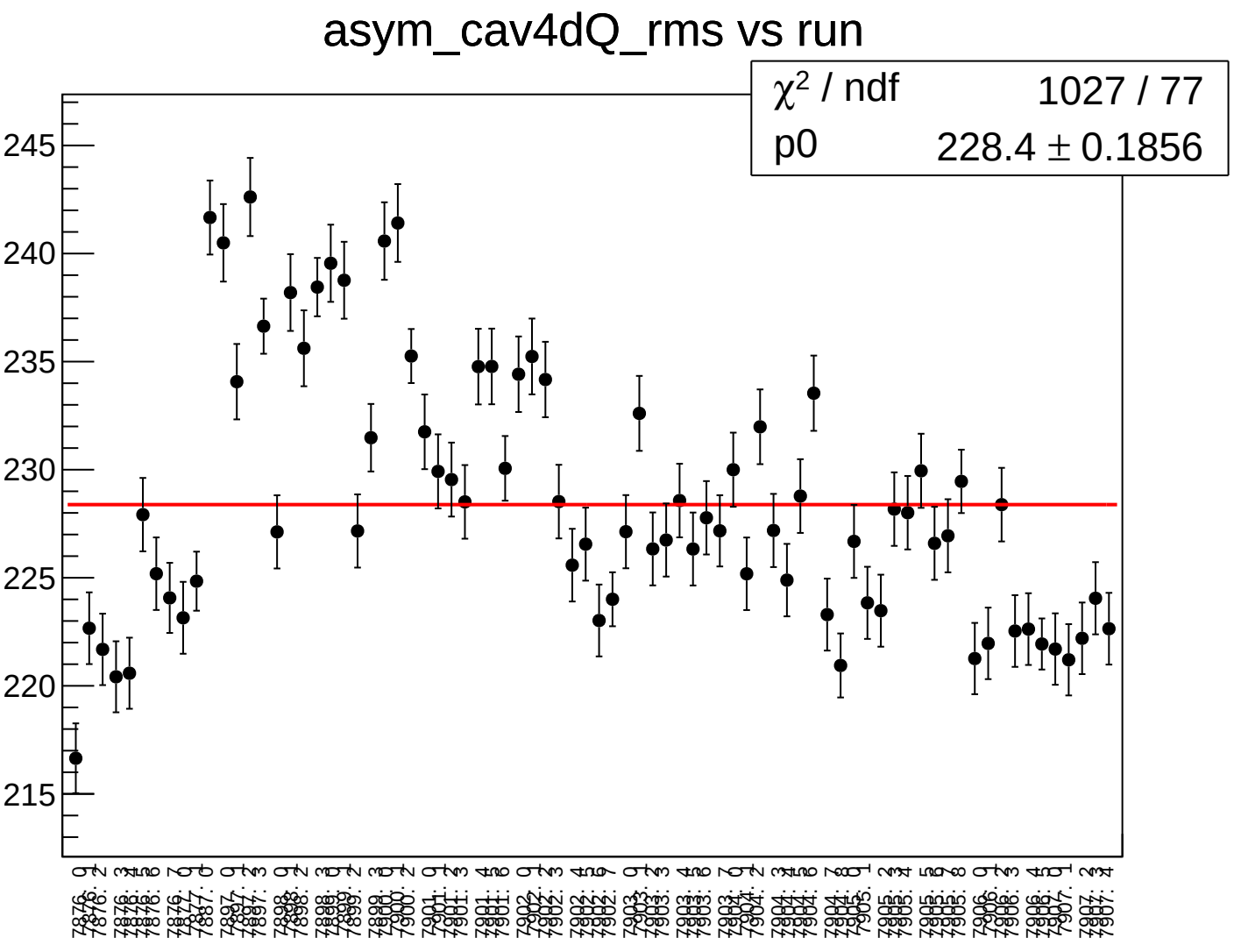

asym_cav4cQ_mean vs run
χ² / ndf 23.23 / 77
p0 −99.17 ± 177.9
pull
Entries 78
Mean 119.6
Std Dev 133.5

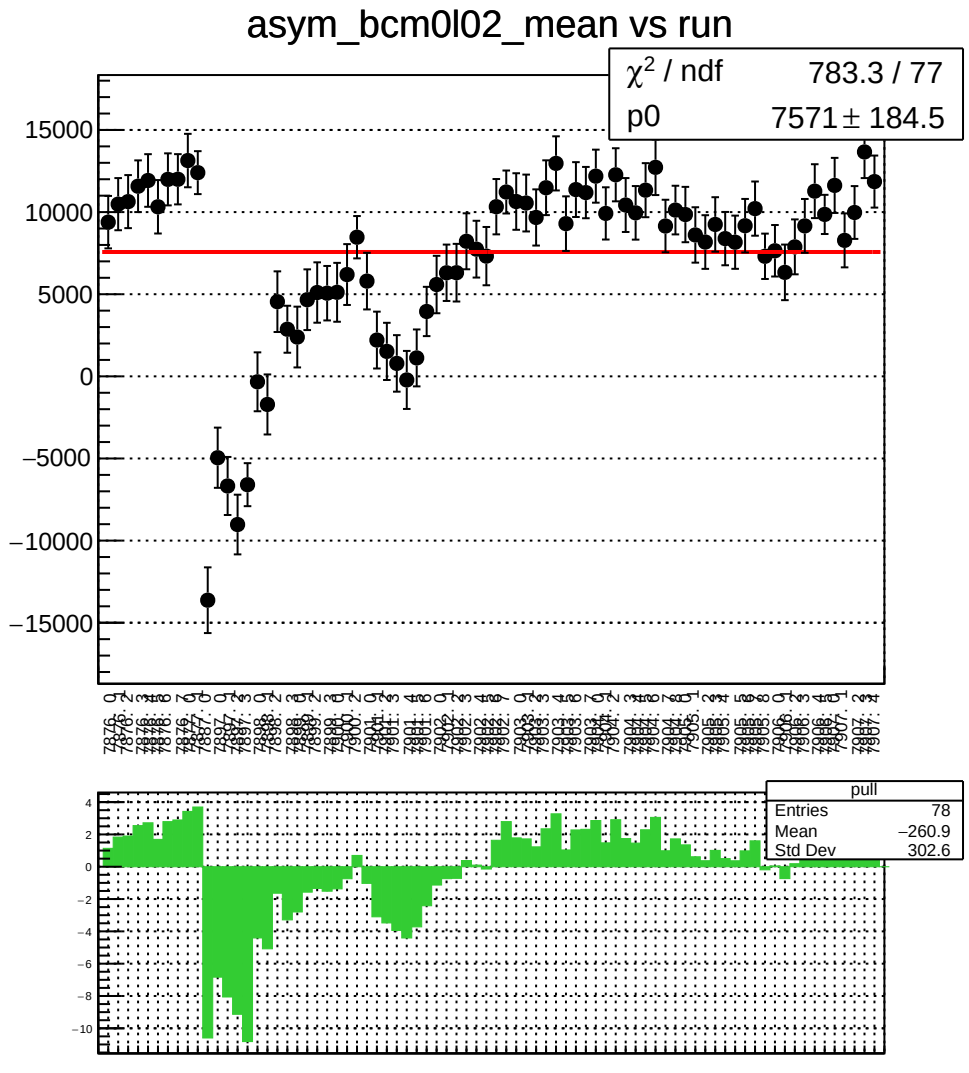

pull1D
Entries 78
Mean −0.002006
Std Dev 0.5457

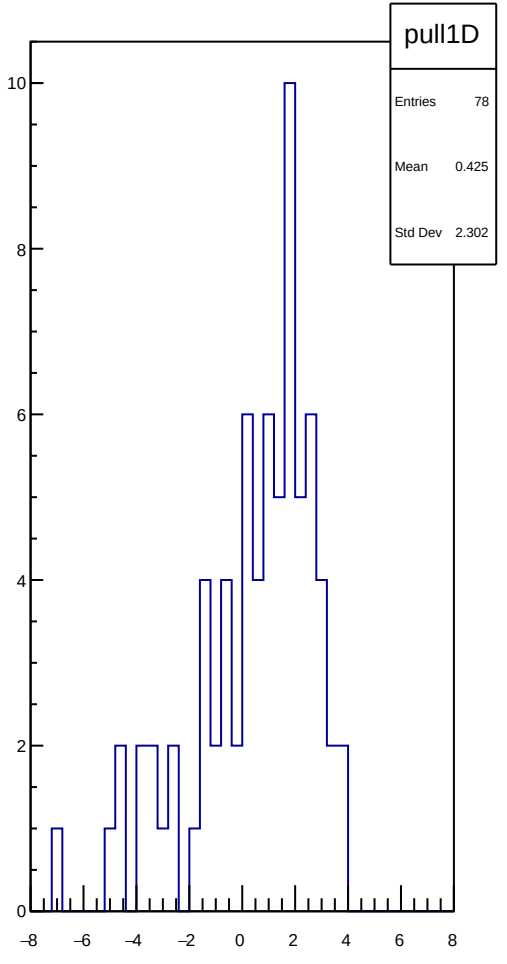

asym_cav4cQ_rms vs run
χ² / ndf 3598 / 77
p0 154.7 ± 0.1258
180
170
160
150
140

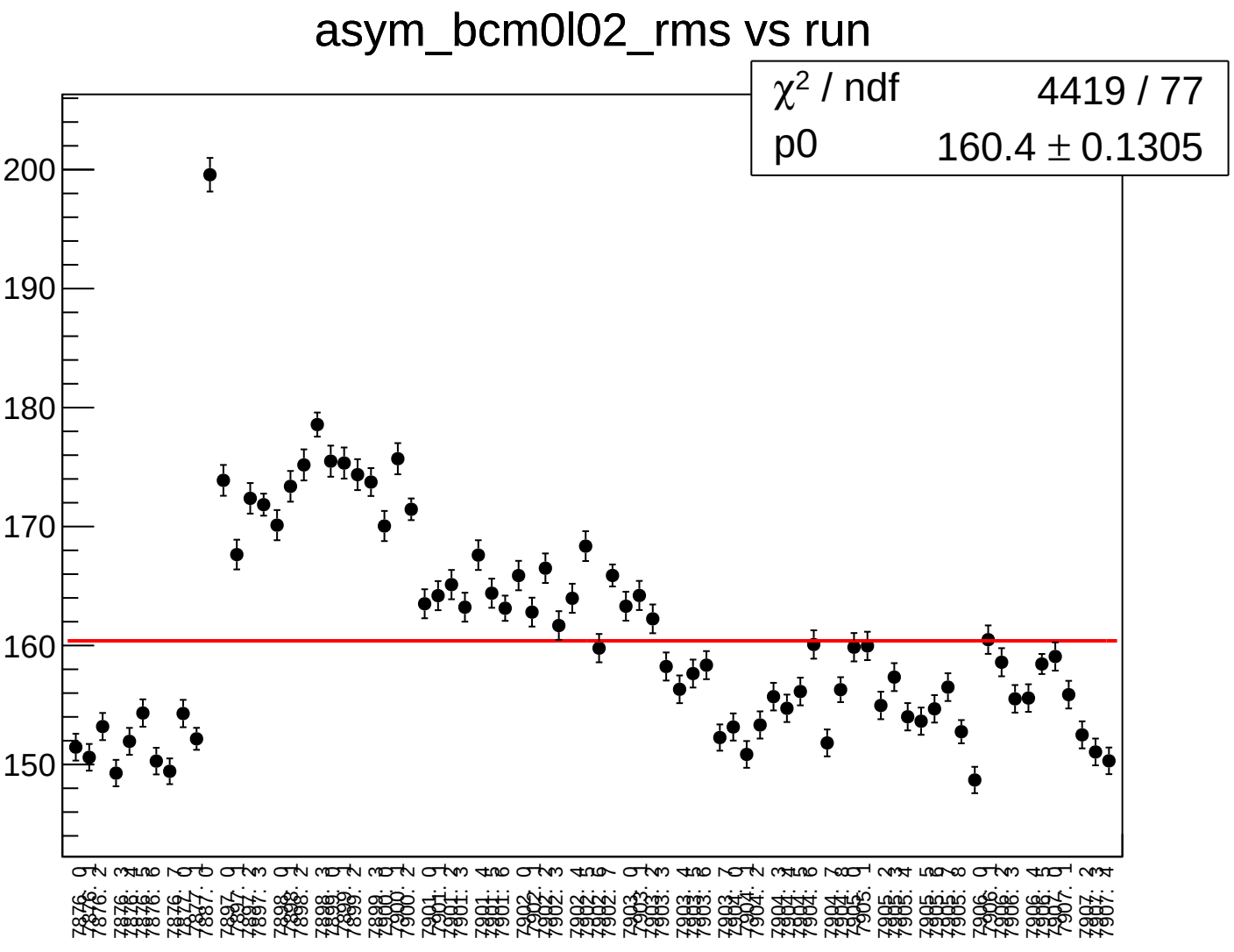

asym_cav4dQ_mean vs run
χ² / ndf 60.6 / 77
p0 −262.9 ± 262.4
pull
Entries 78
Mean 2.006e+04
Std Dev 2.009e+04

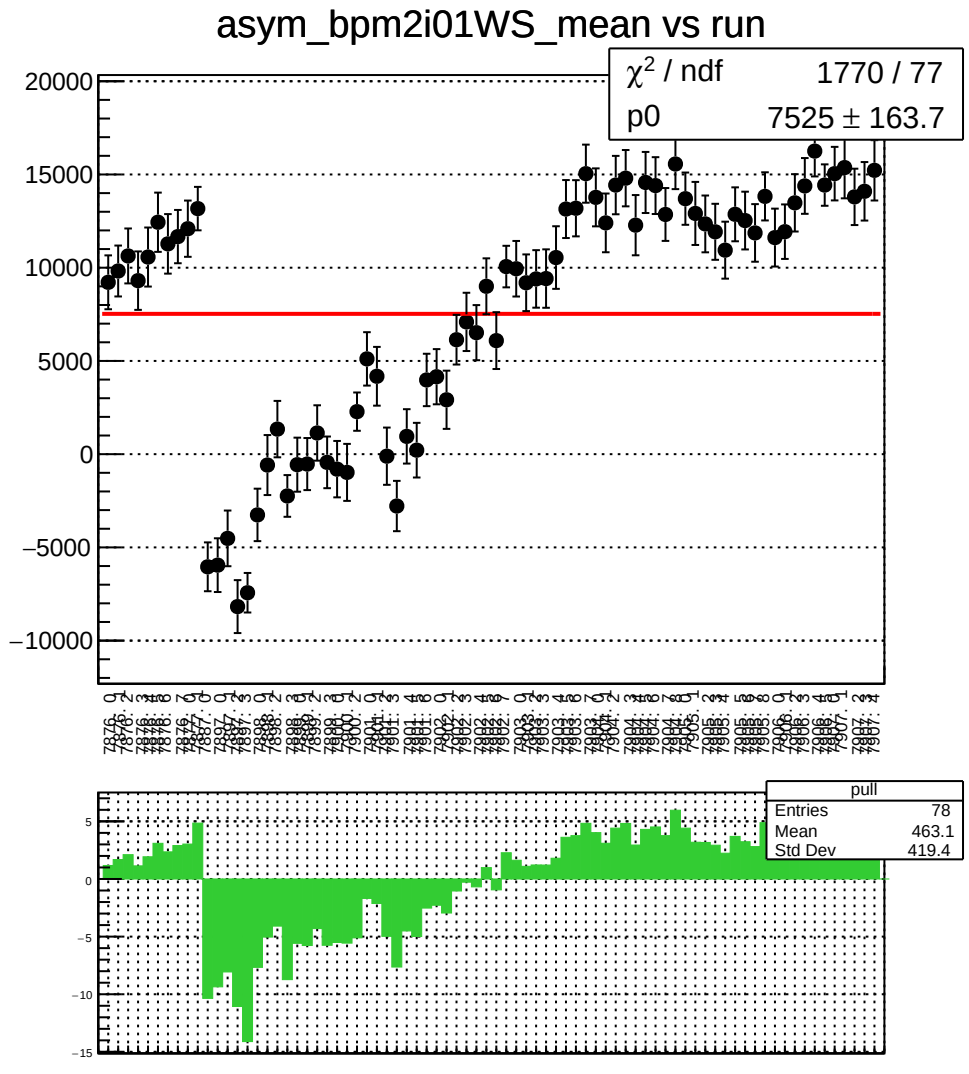

pull1D
Entries 78
Mean −1.185e−05
Std Dev 0.8814

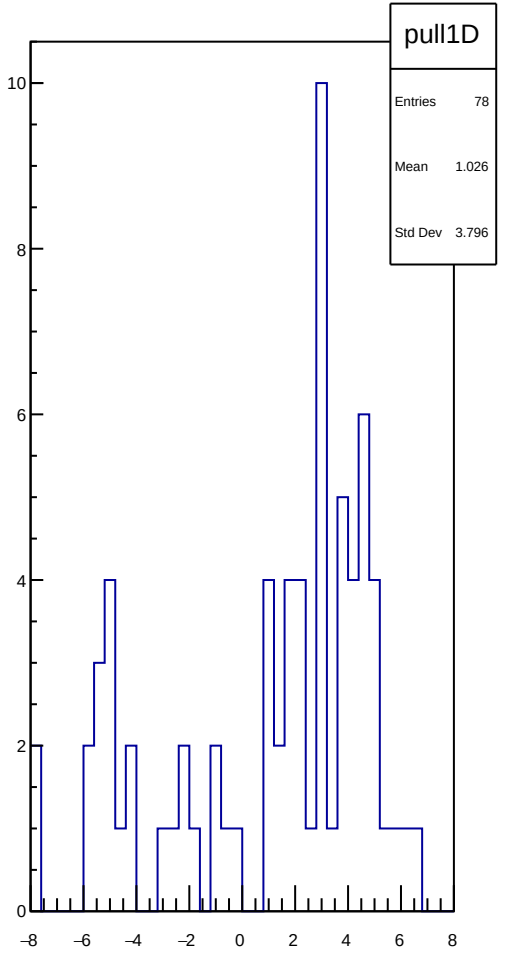

asym_cav4dQ_rms vs run
χ² / ndf 1027 / 77
p0 228.4 ± 0.1856
245
240
235
230
225
220
215

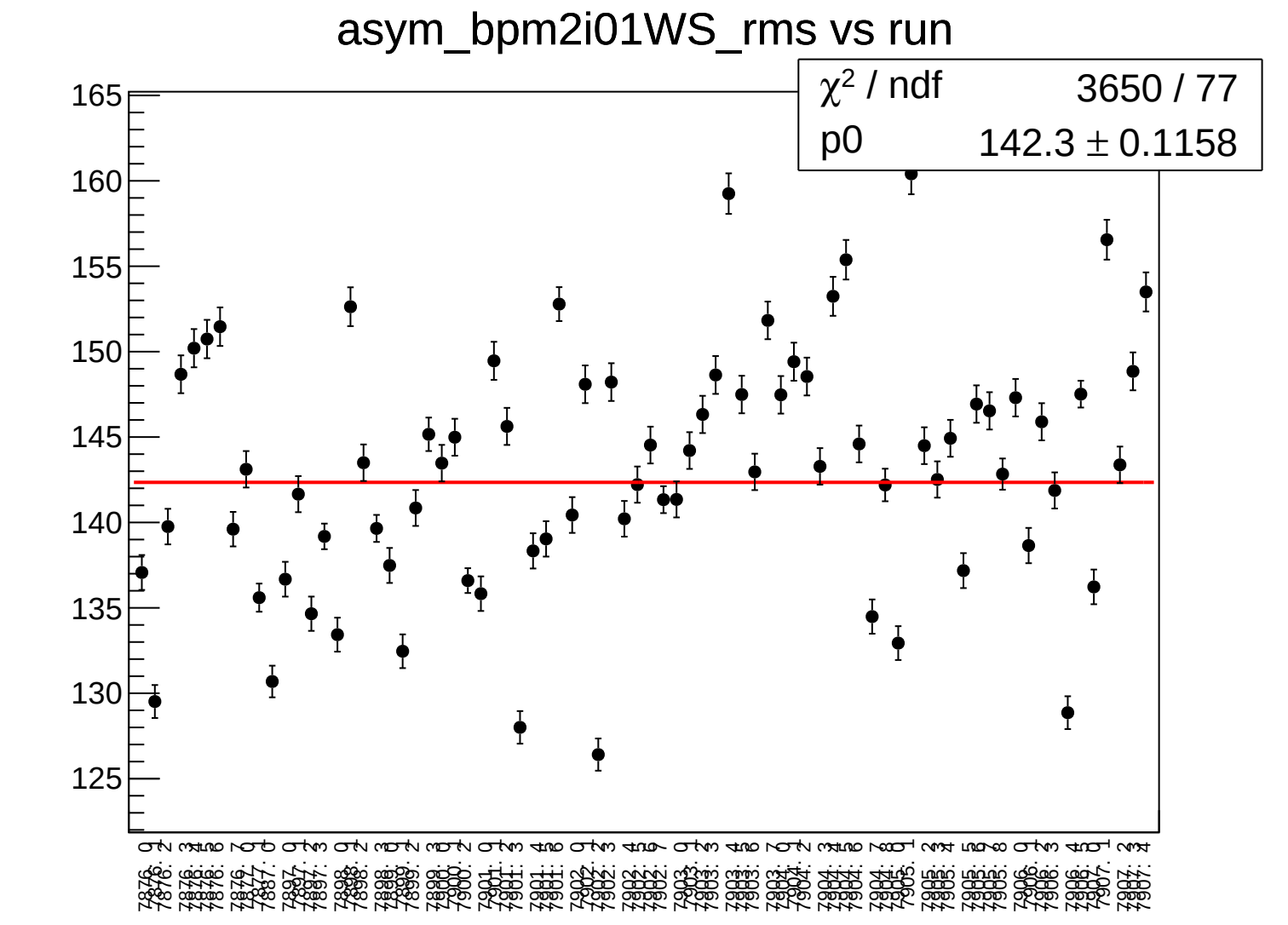

asym_bcm0l02_mean vs run
χ² / ndf 783.3 / 77
p0 7571 ± 184.5
pull
Entries 78
Mean −260.9
Std Dev 302.6

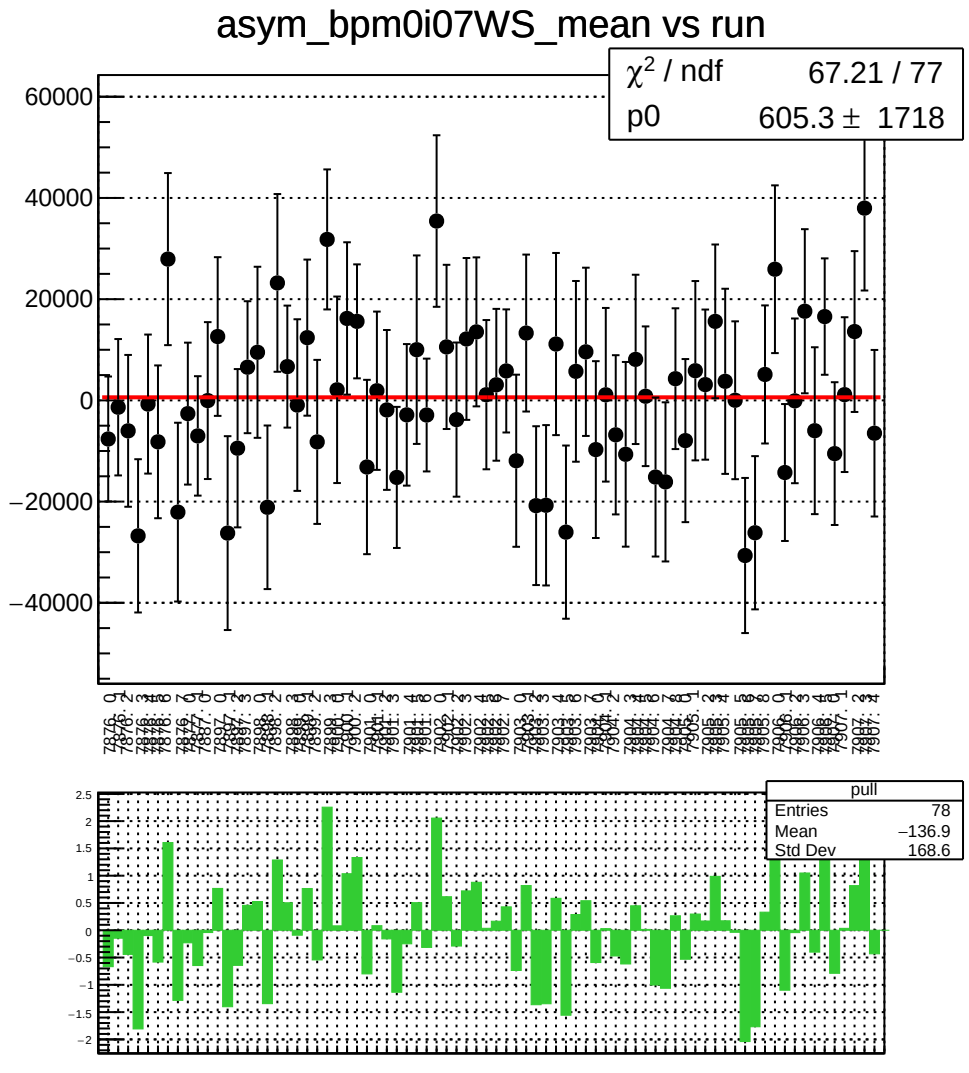

pull1D
Entries 78
Mean 0.425
Std Dev 2.302

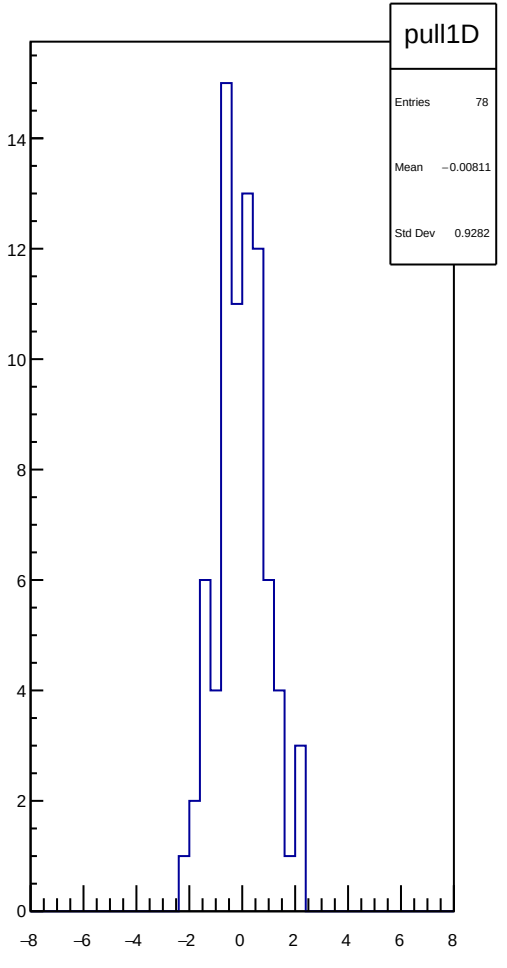

asym_bcm0l02_rms vs run
χ² / ndf 4419 / 77
p0 160.4 ± 0.1305
200
190
180
170
160
150

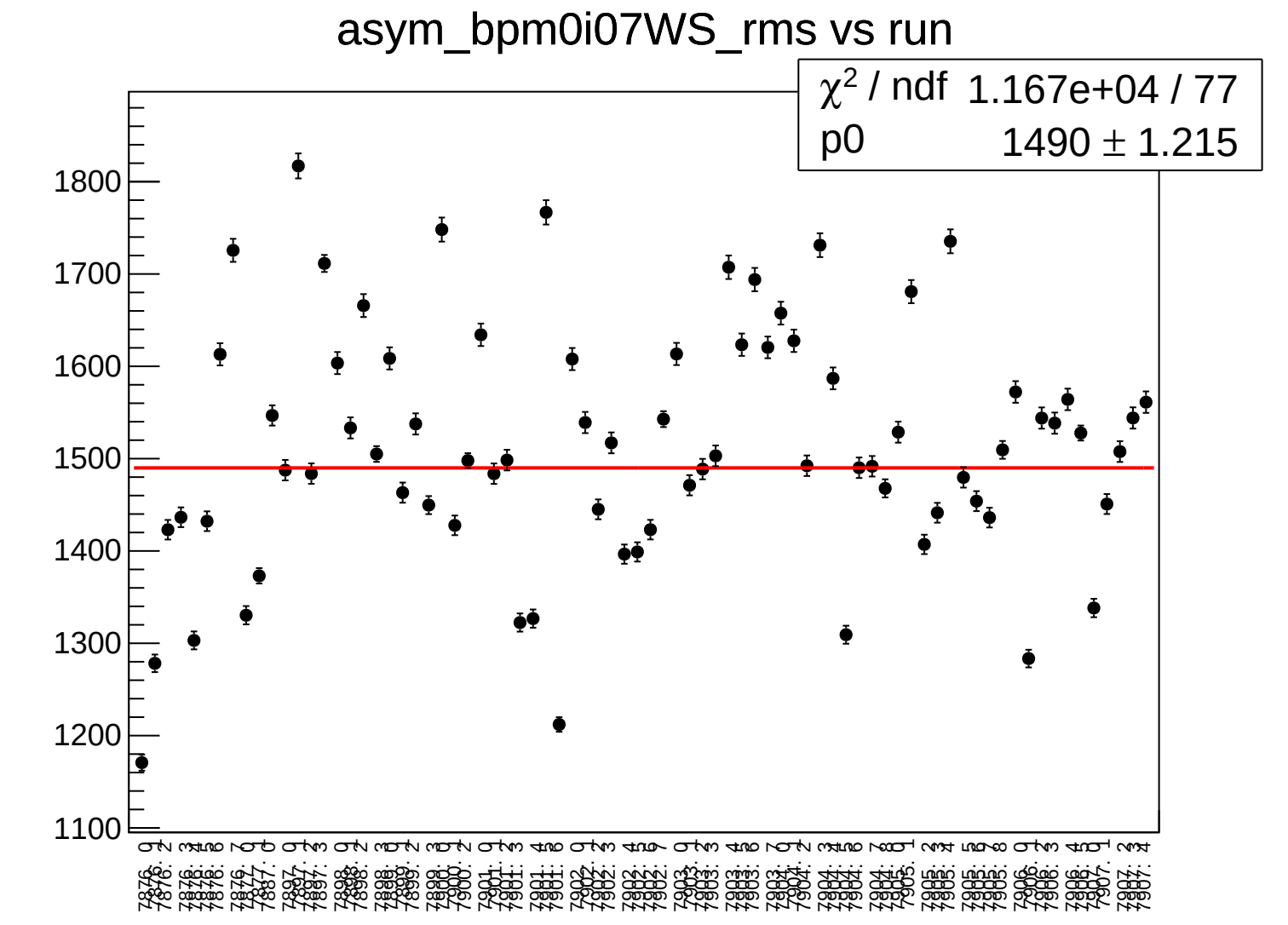

asym_bpm2i01WS_mean vs run
χ² / ndf 1770 / 77
p0 7525 ± 163.7
pull
Entries 78
Mean 463.1
Std Dev 419.4

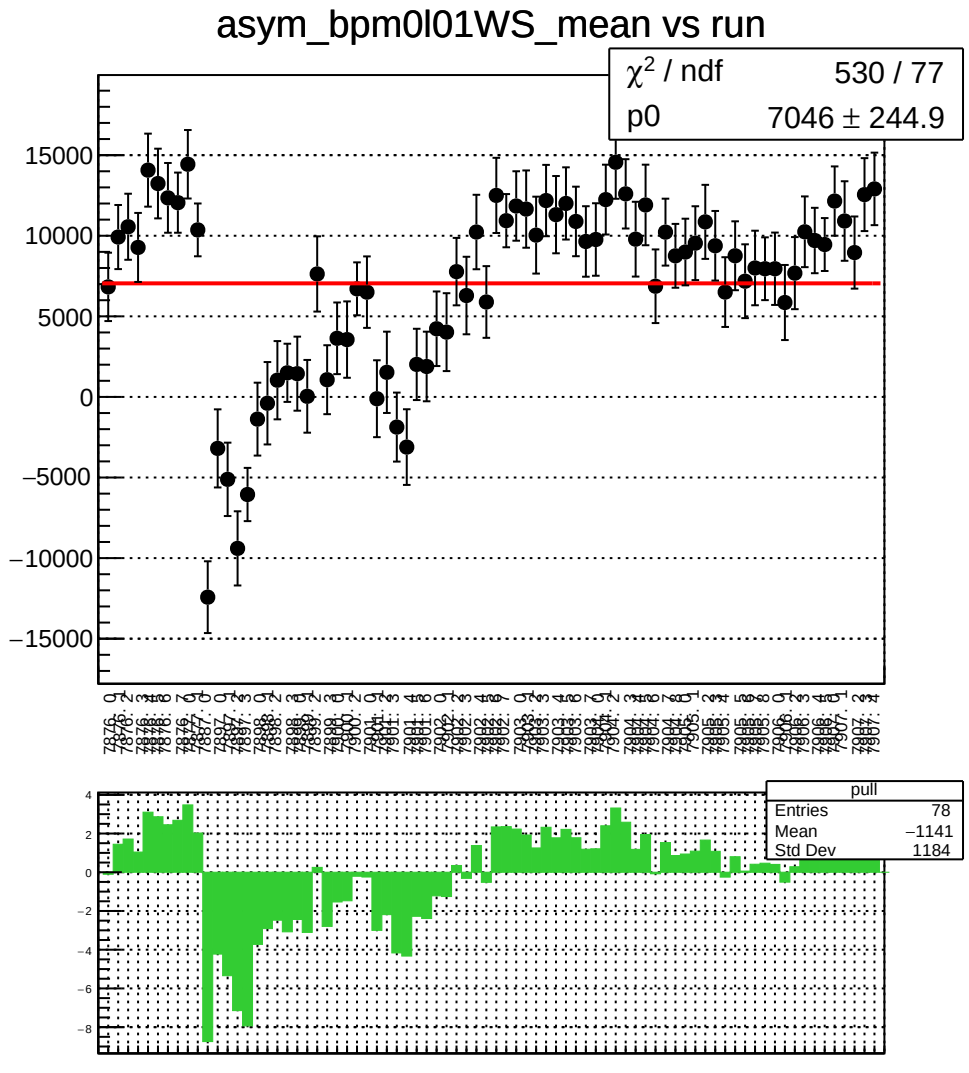

pull1D
Entries 78
Mean 1.026
Std Dev 3.796

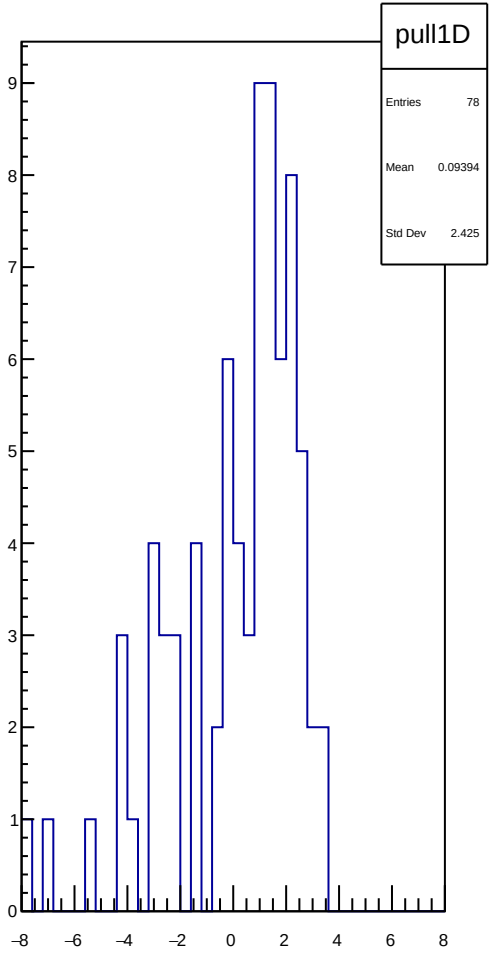

asym_bpm2i01WS_rms vs run
χ² / ndf 3650 / 77
p0 142.3 ± 0.1158
165
160
155
150
145
140
135
130
125

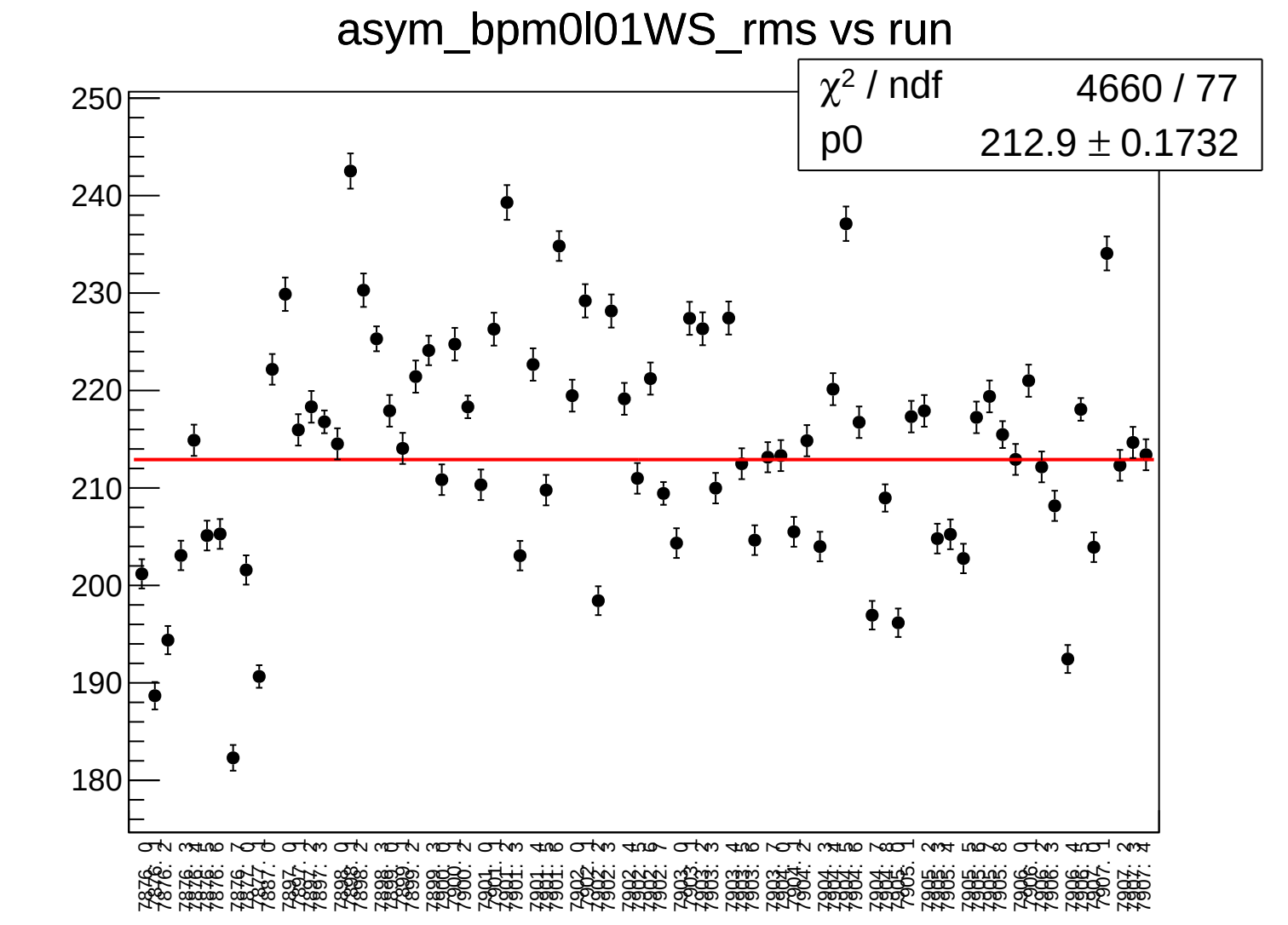

asym_bpm0i07WS_mean vs run
χ² / ndf 67.21 / 77
p0 605.3 ± 1718
60000
40000
20000
0
−20000
−40000
pull
Entries 78
Mean −136.9
Std Dev 168.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

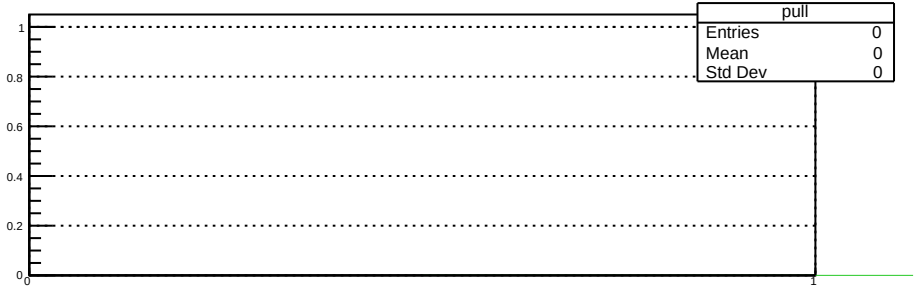

pull1D
Entries 78
Mean −0.00811
Std Dev 0.9282
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

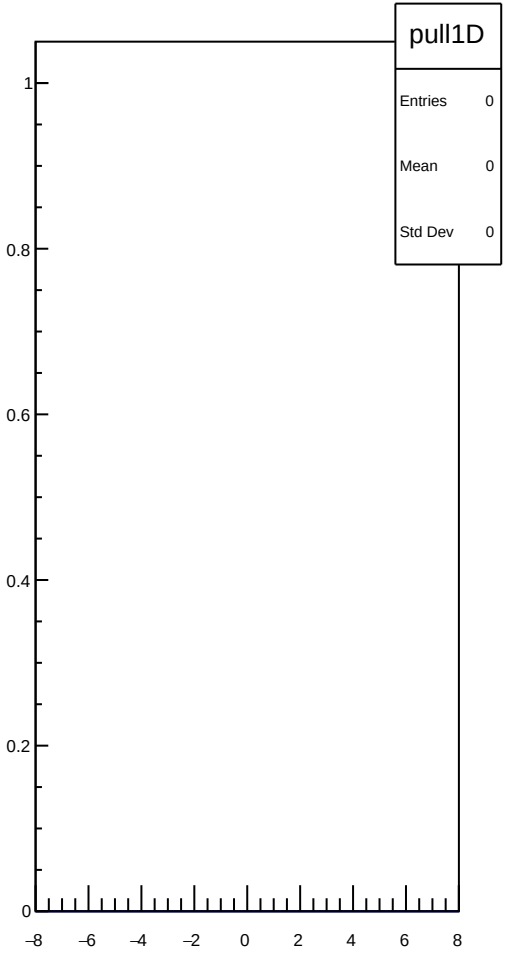

asym_bpm0i07WS_rms vs run
χ² / ndf 1.167e+04 / 77
p0 1490 ± 1.215
1800
1700
1600
1500
1400
1300
1200
1100

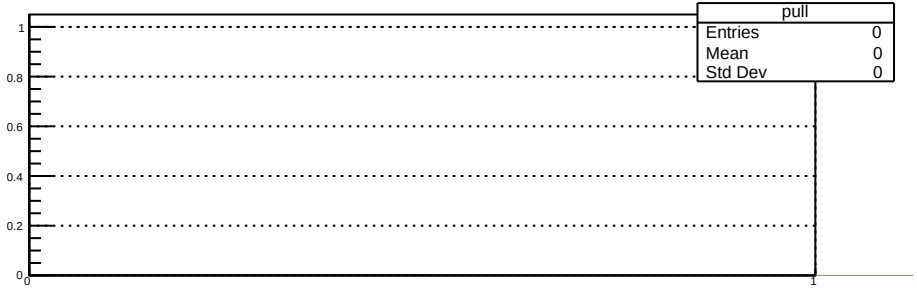

asym_bpm0l01WS_mean vs run
χ² / ndf 530 / 77
p0 7046 ± 244.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean −1141
Std Dev 1184
4
2
0
−2
−4
−6
−8

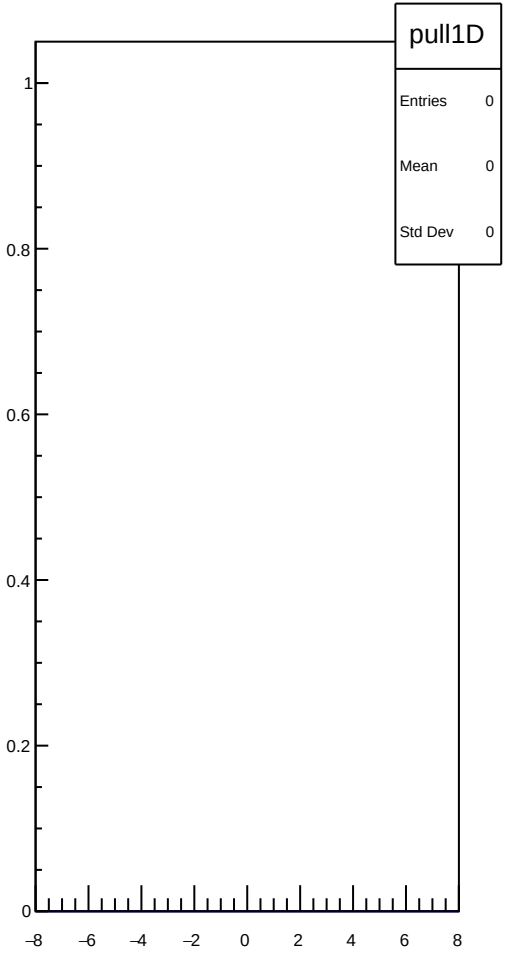

pull1D
Entries 78
Mean 0.09394
Std Dev 2.425
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

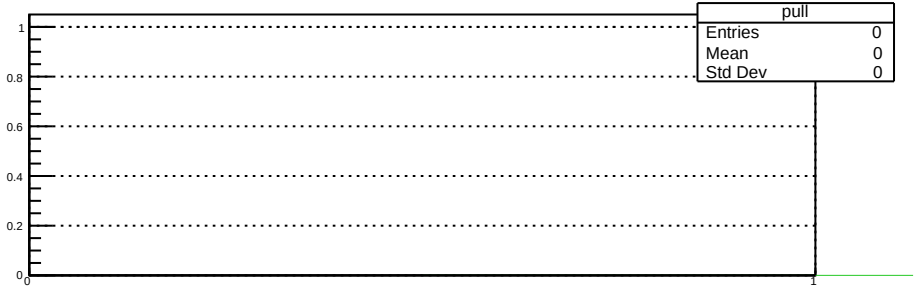

asym_bpm0l01WS_rms vs run
χ^2 / ndf 4660 / 77
p0 212.9 ± 0.1732
250
240
230
220
210
200
190
180

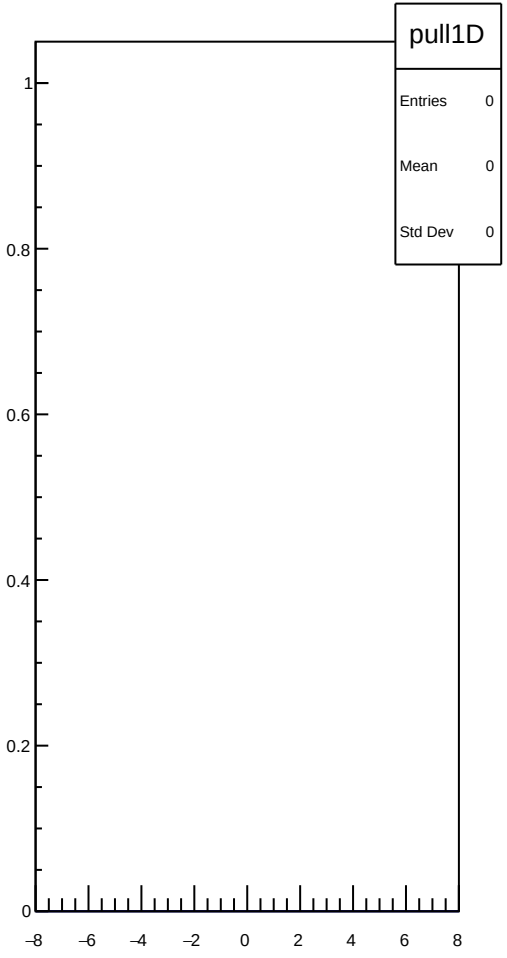

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

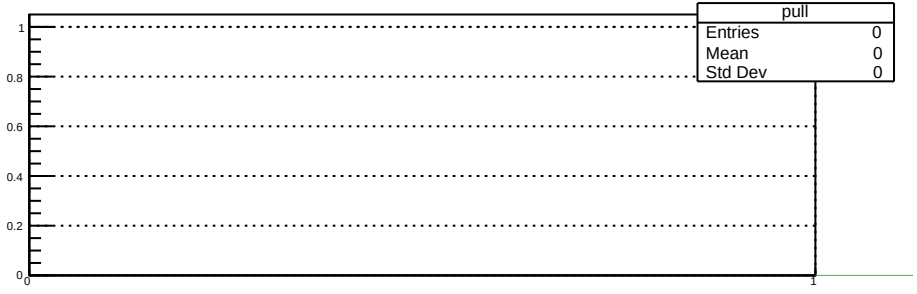

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

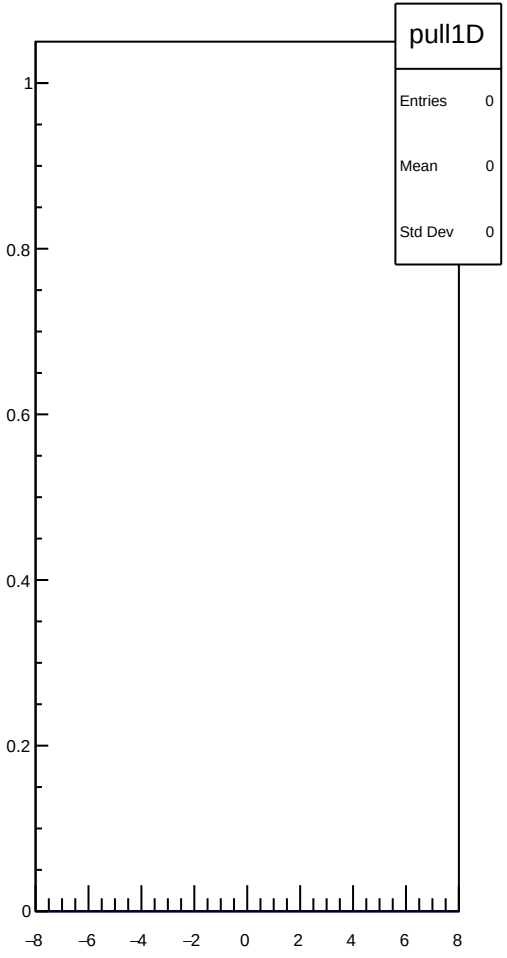

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

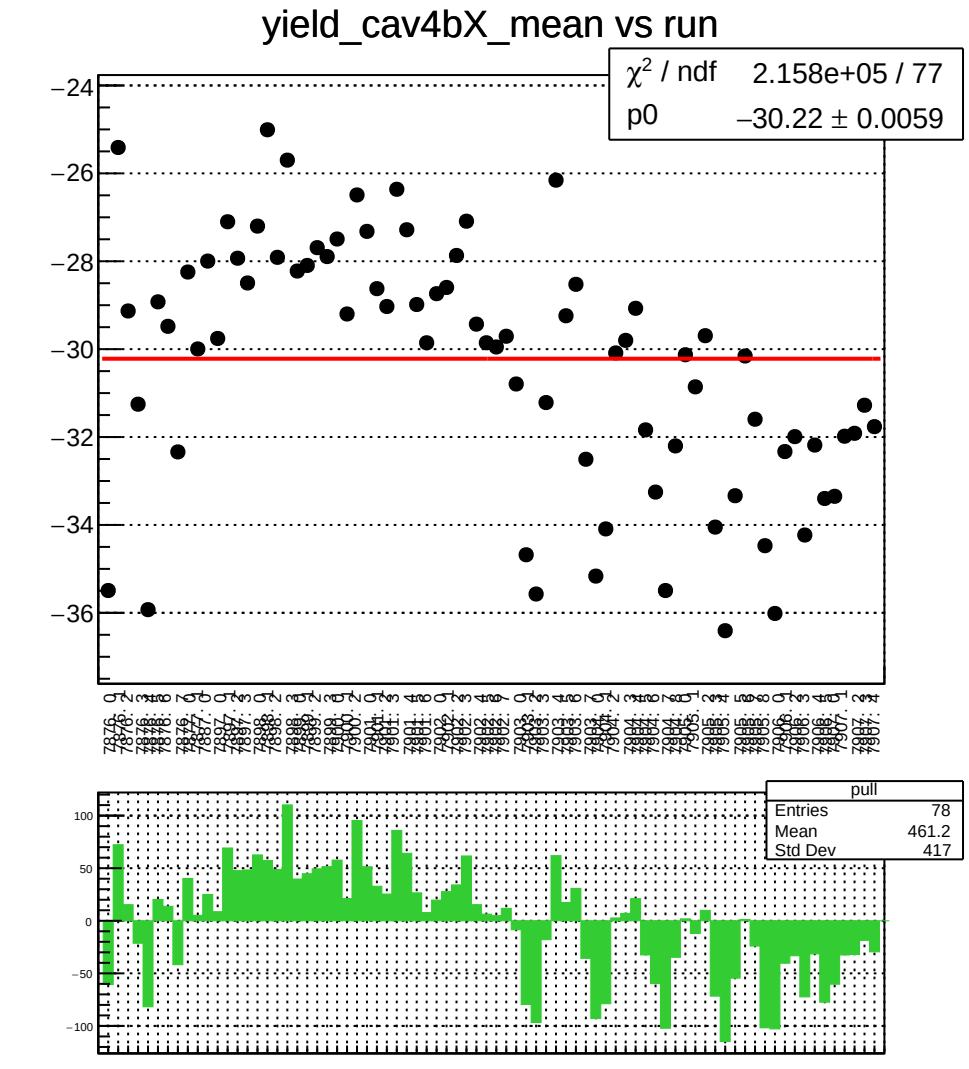

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

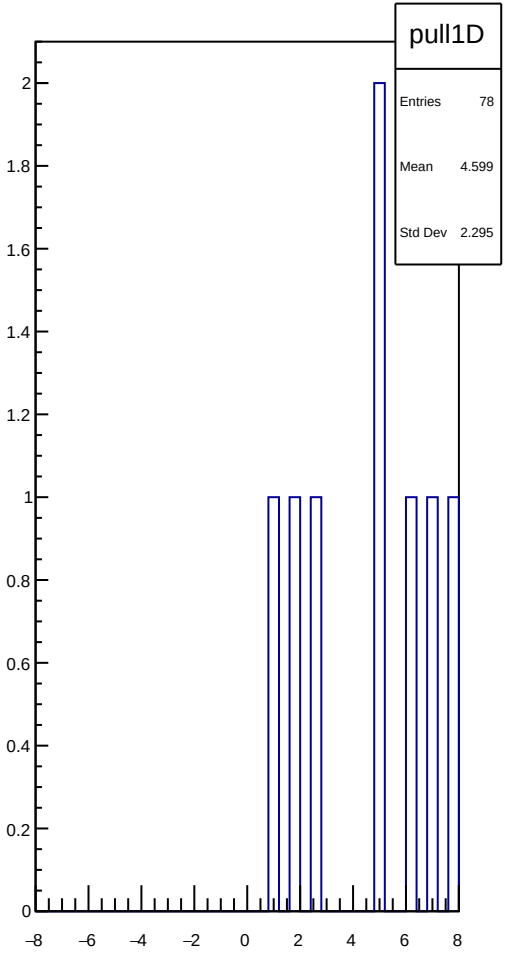

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

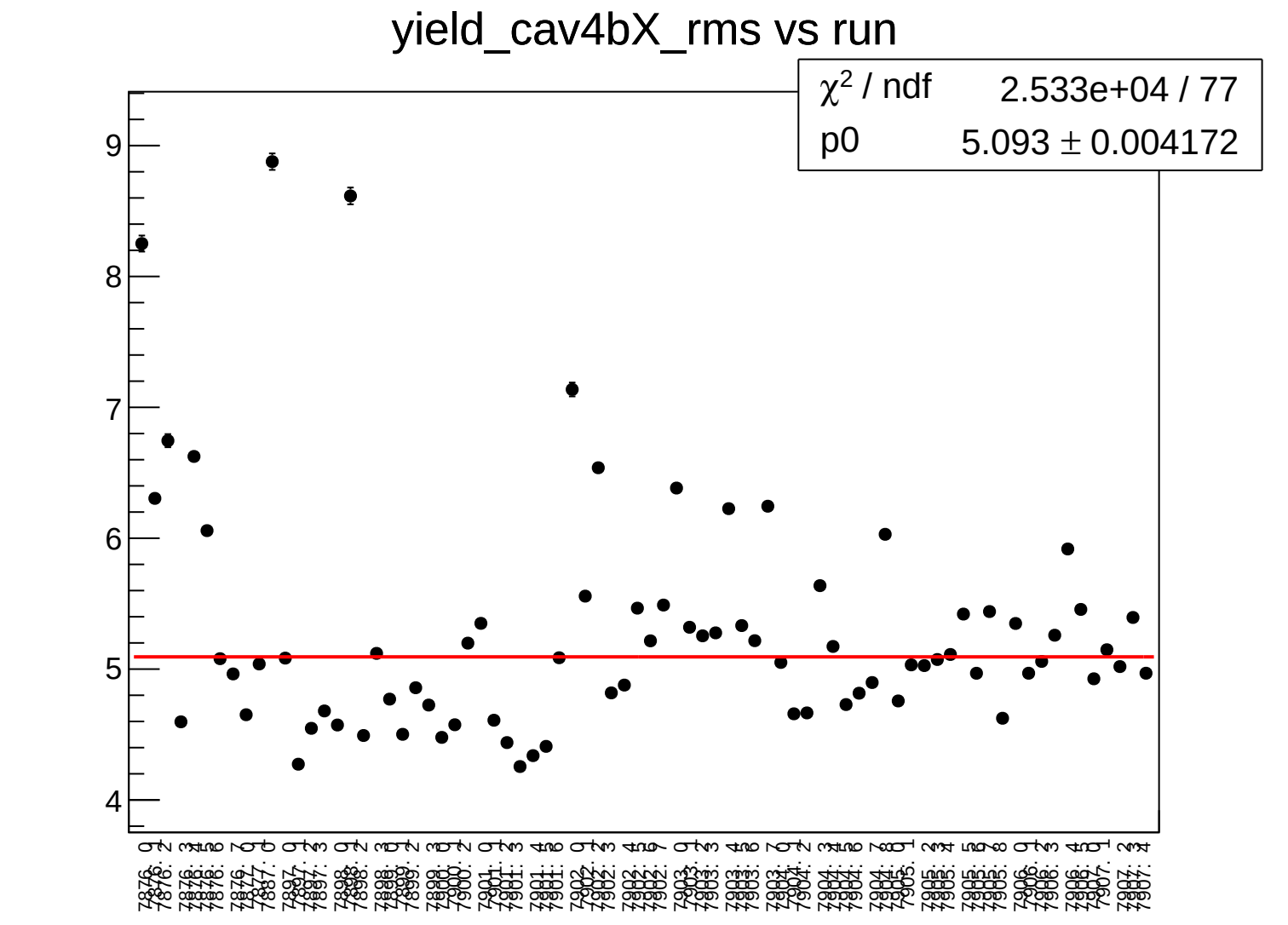

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

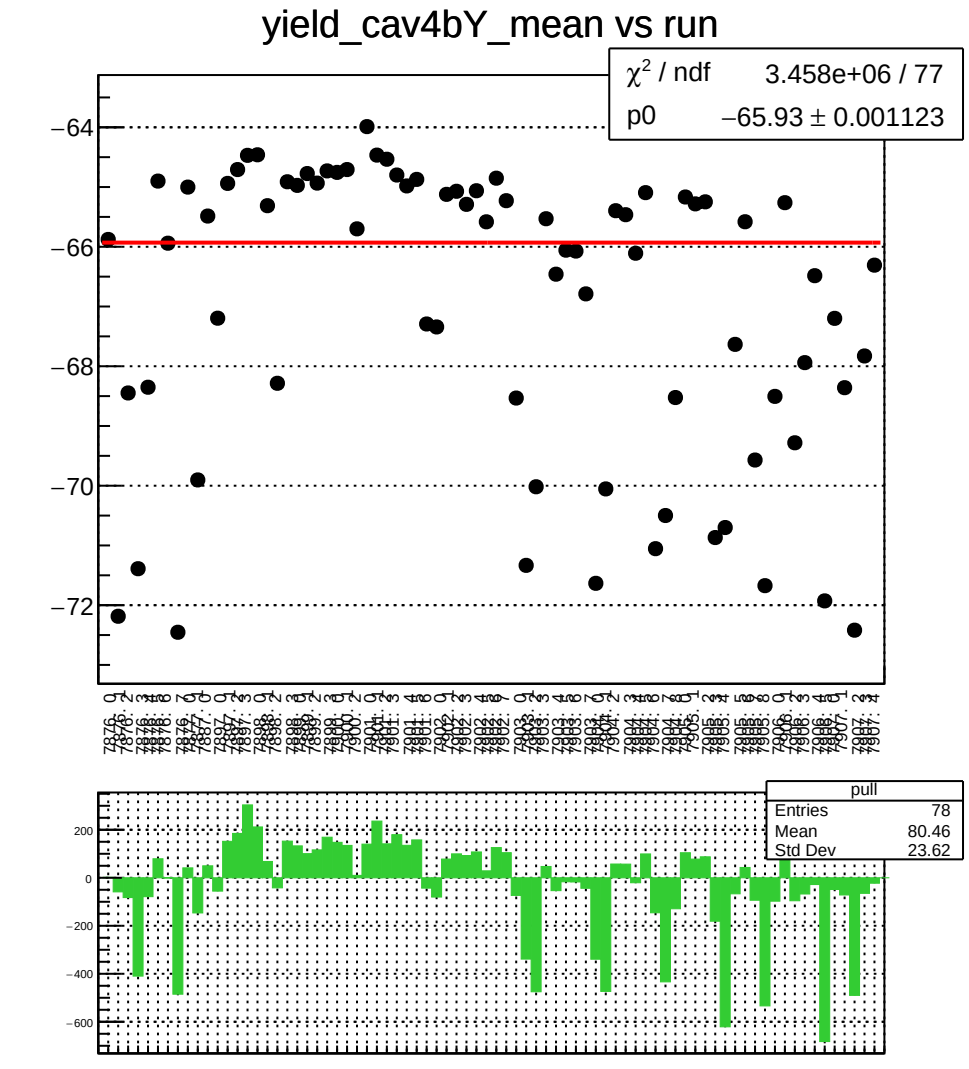

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

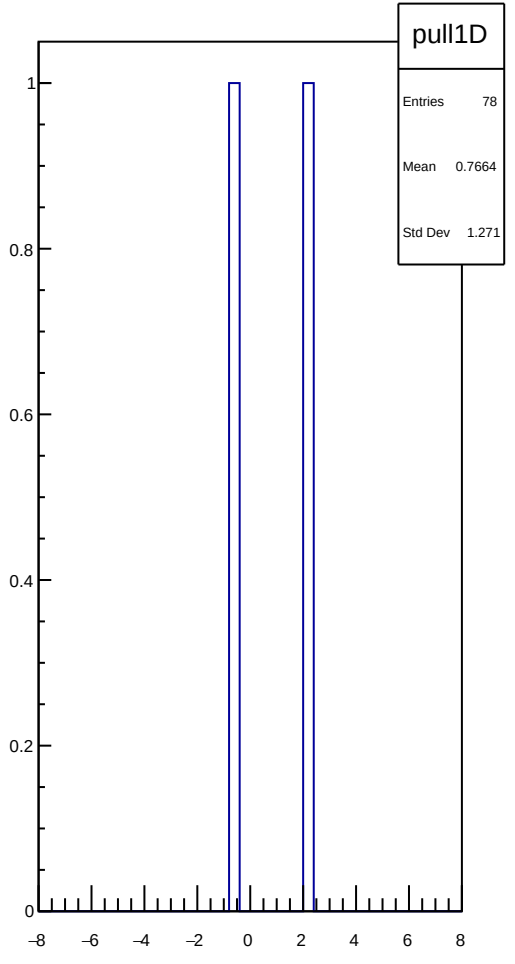

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

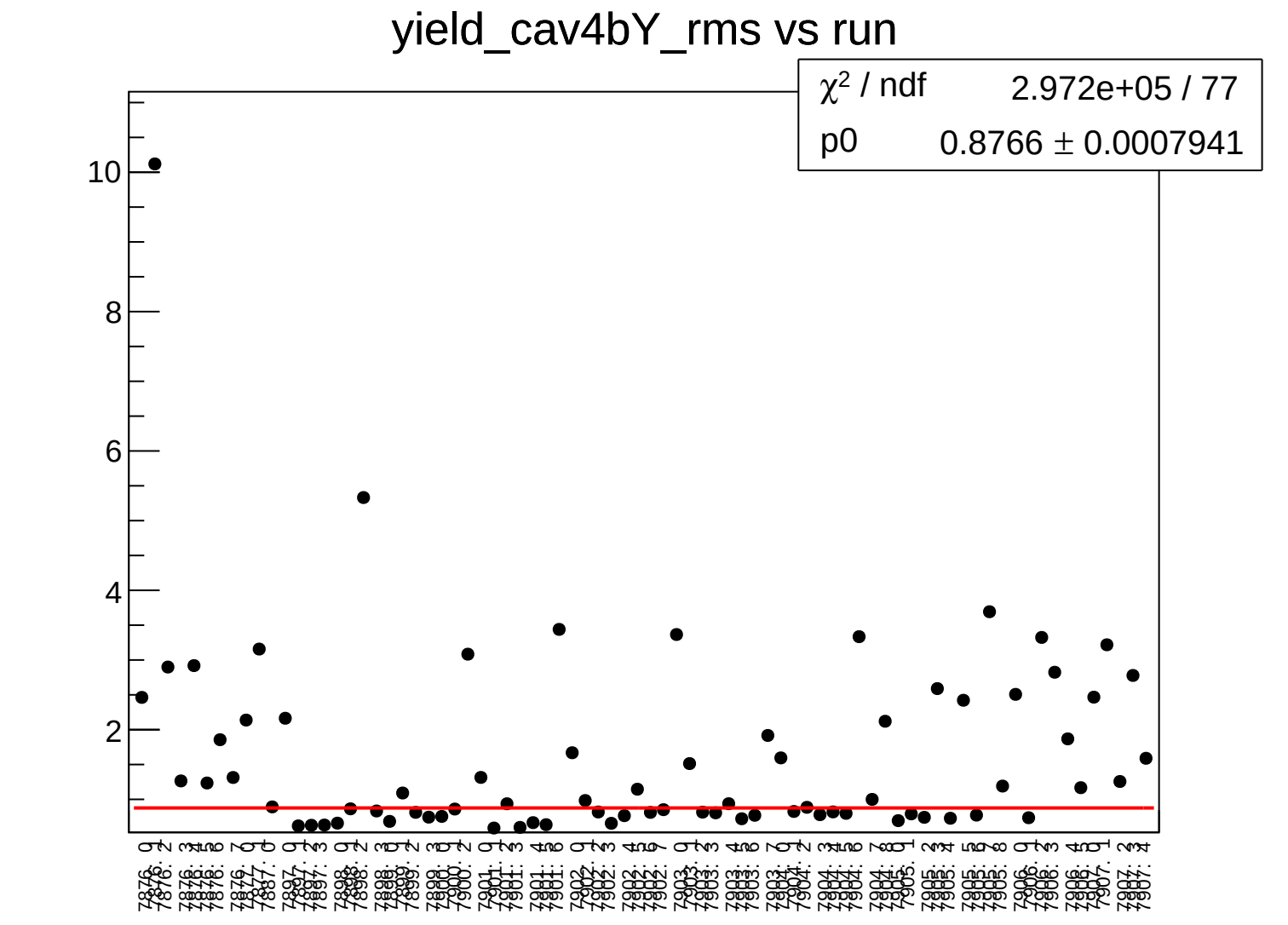

yield_cav4bX_mean vs run
χ² / ndf 2.158e+05 / 77
p0 −30.22 ± 0.0059
pull
Entries 78
Mean 461.2
Std Dev 417

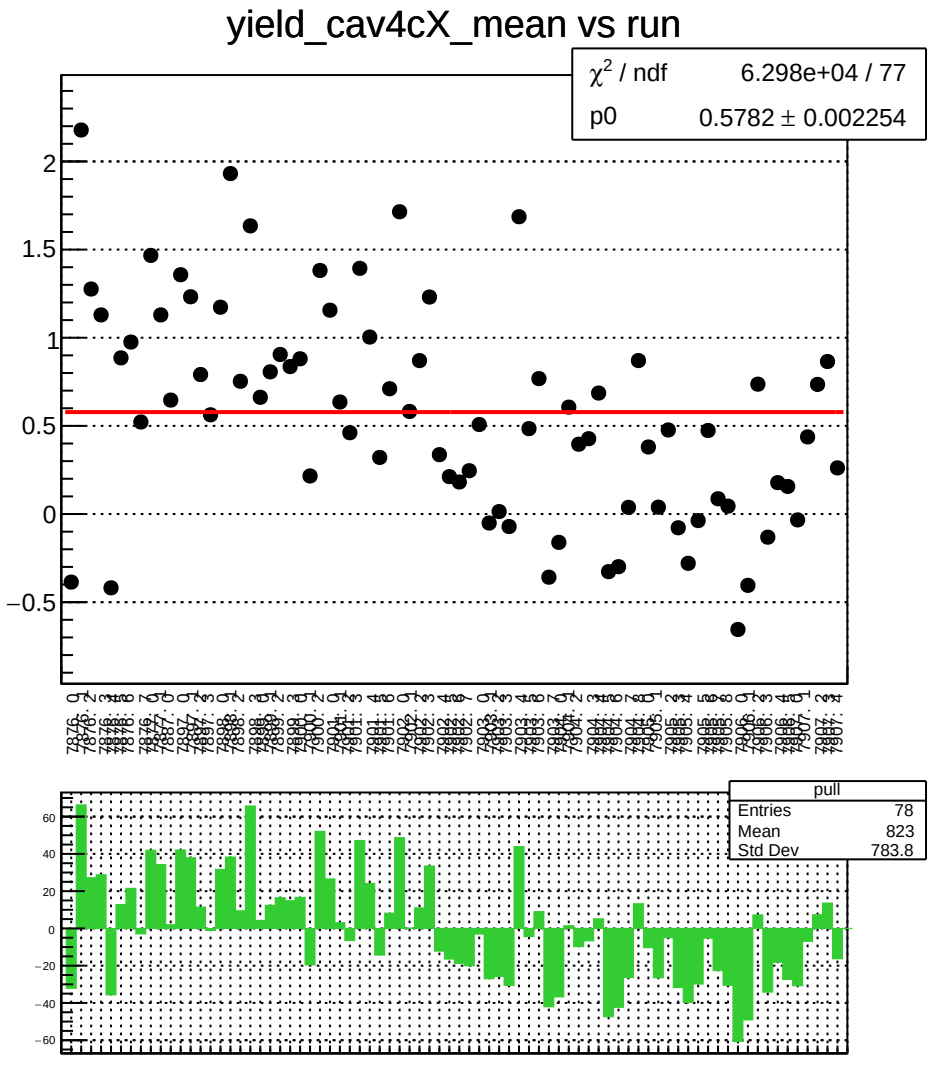

pull1D
Entries 78
Mean 4.599
Std Dev 2.295

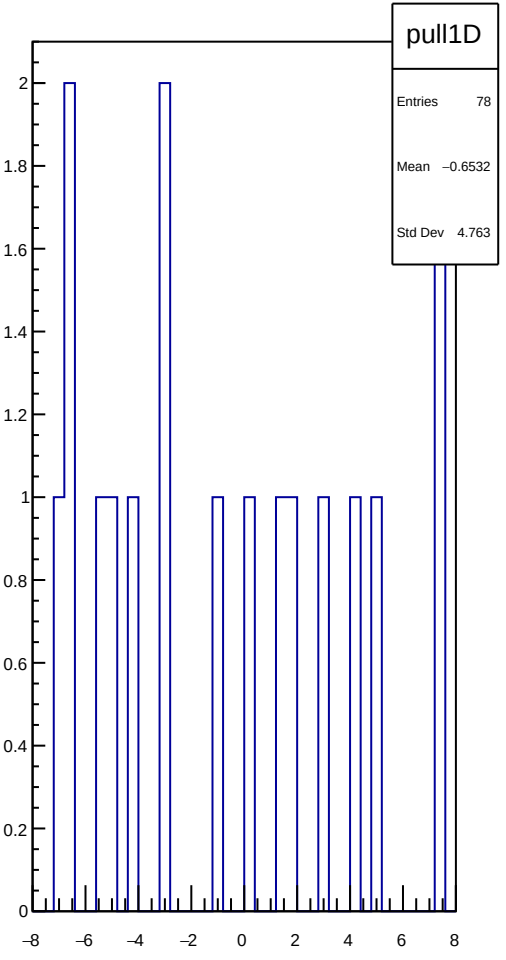

yield_cav4bX_rms vs run
χ^2 / ndf 2.533e+04 / 77
p0 5.093 ± 0.004172
9
8
7
6
5
4

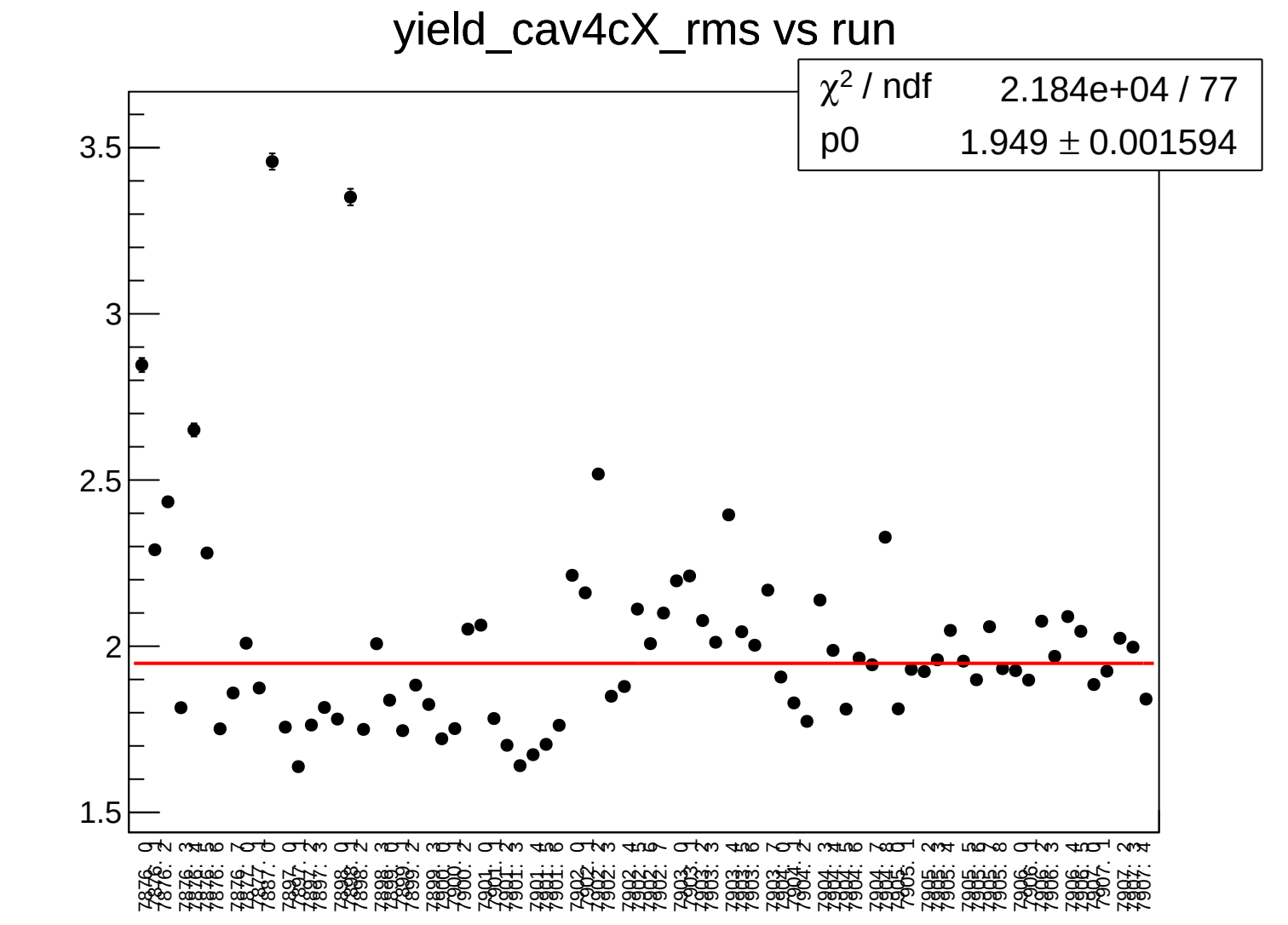

yield_cav4bY_mean vs run
χ² / ndf 3.458e+06 / 77
p0 −65.93 ± 0.001123
−64
−66
−68
−70
−72
pull
Entries 78
Mean 80.46
Std Dev 23.62
200
0
−200
−400
−600

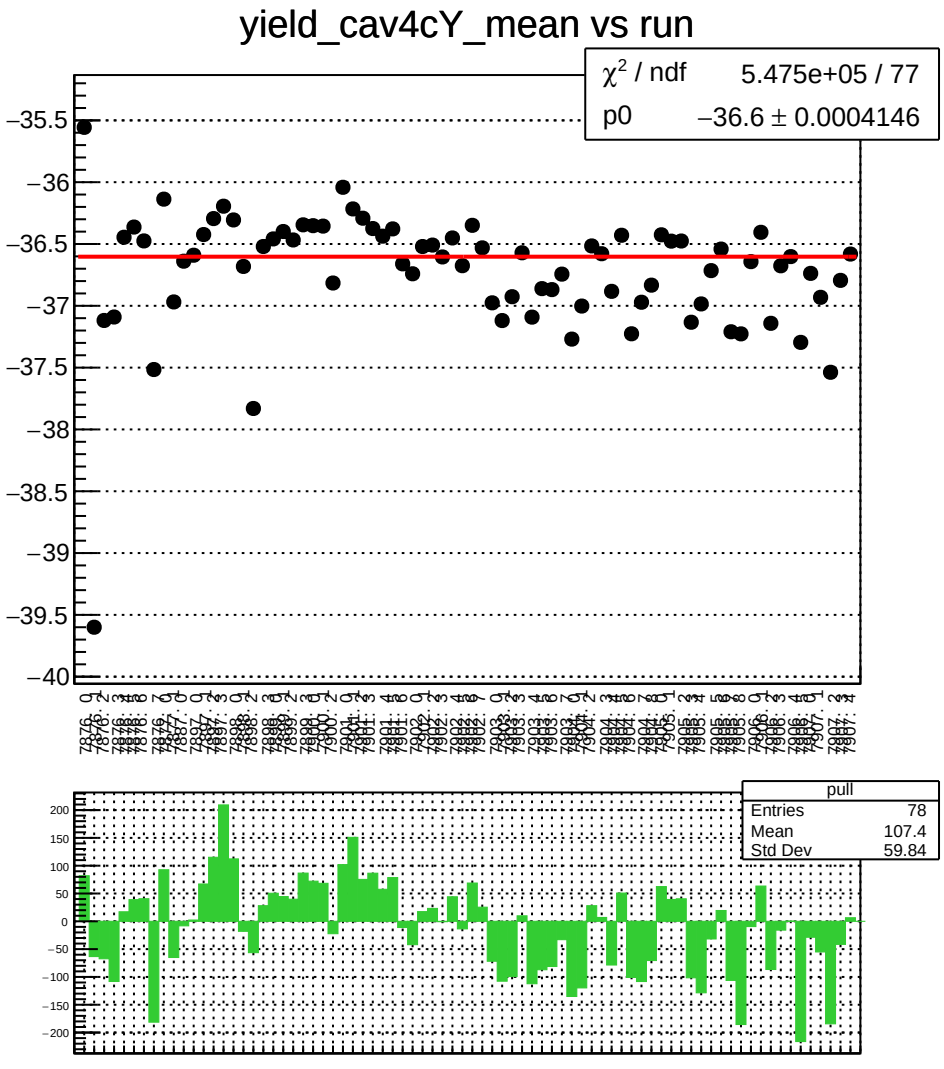

pull1D
Entries 78
Mean 0.7664
Std Dev 1.271
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

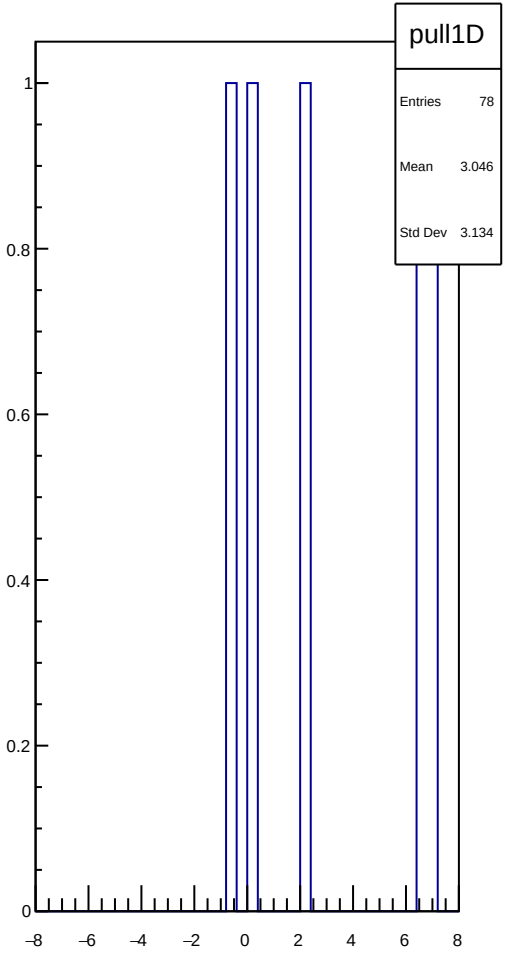

yield_cav4bY_rms vs run
χ² / ndf 2.972e+05 / 77
p0 0.8766 ± 0.0007941
10
8
6
4
2

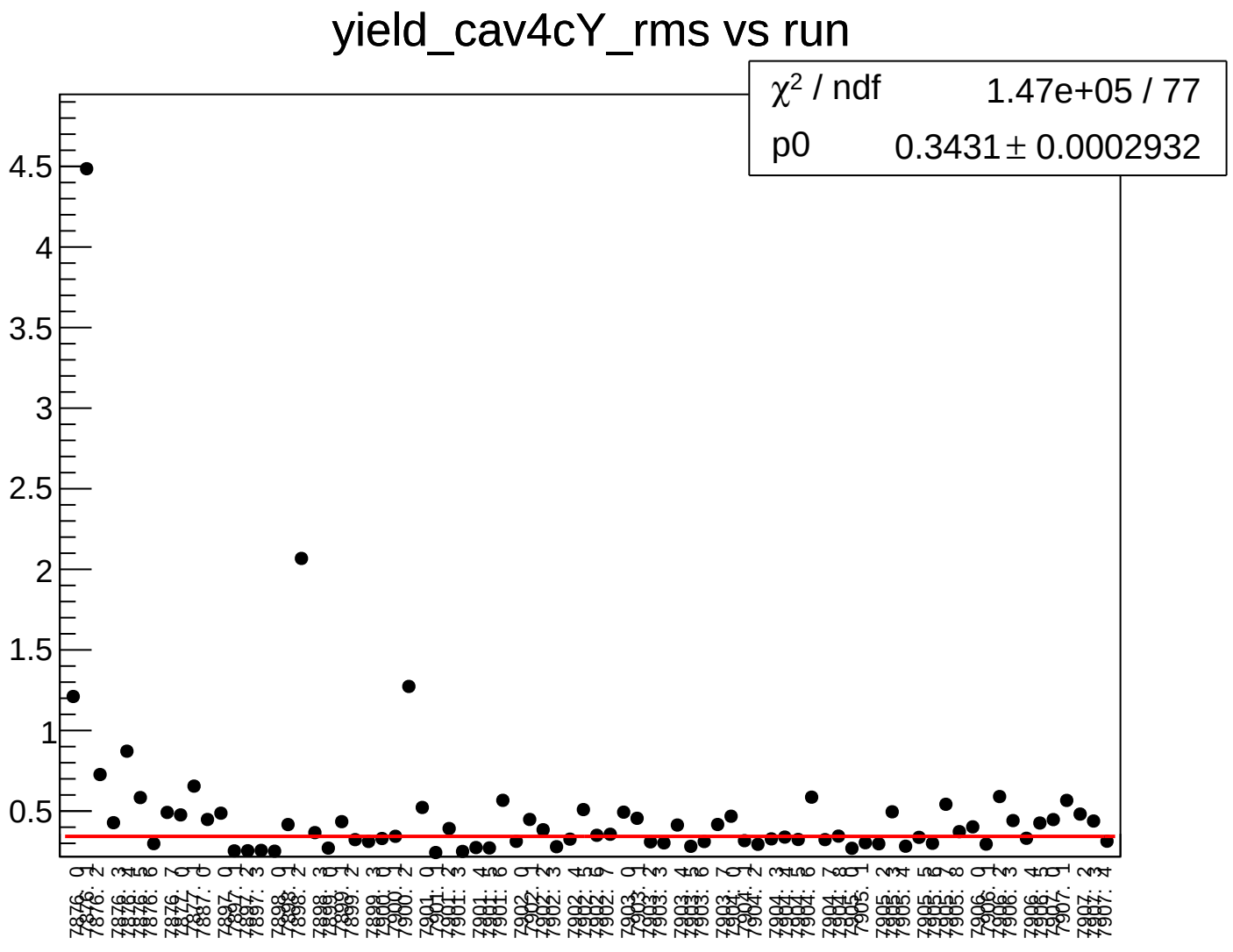

yield_cav4cX_mean vs run
χ² / ndf 6.298e+04 / 77
p0 0.5782 ± 0.002254
pull
Entries 78
Mean 823
Std Dev 783.8

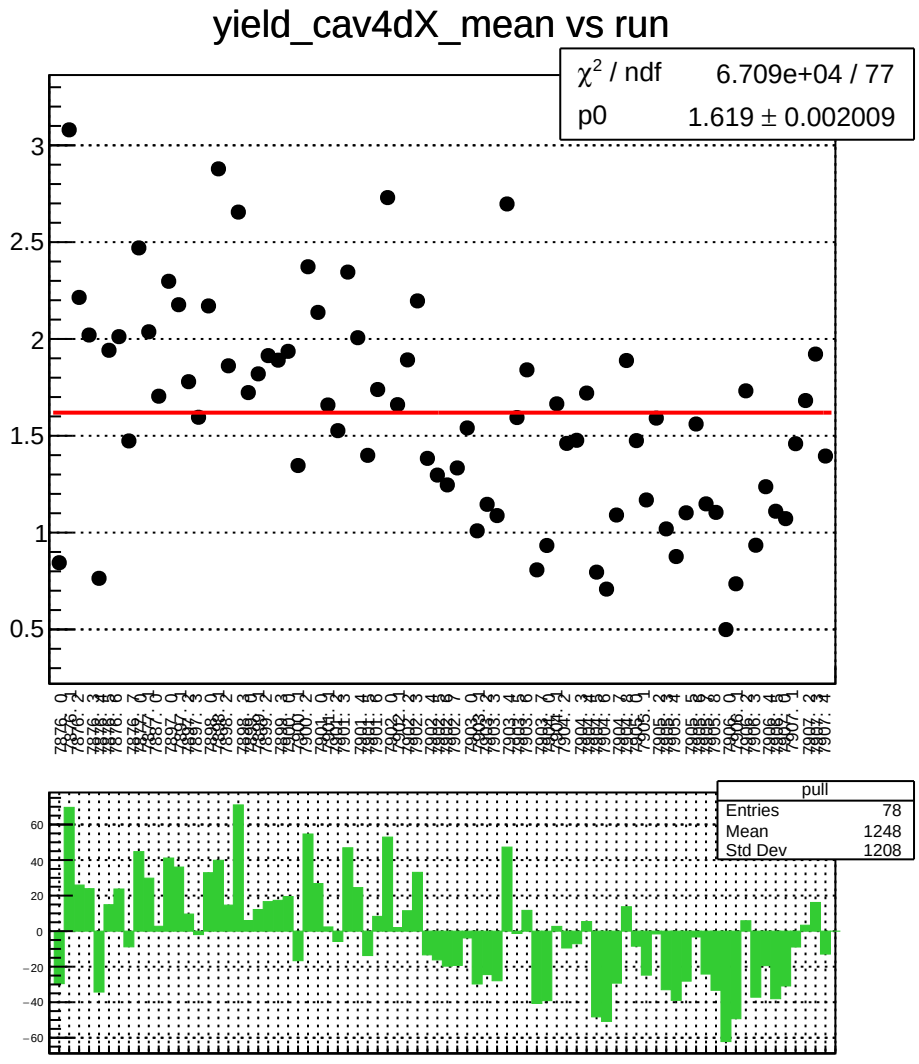

pull1D
Entries 78
Mean −0.6532
Std Dev 4.763

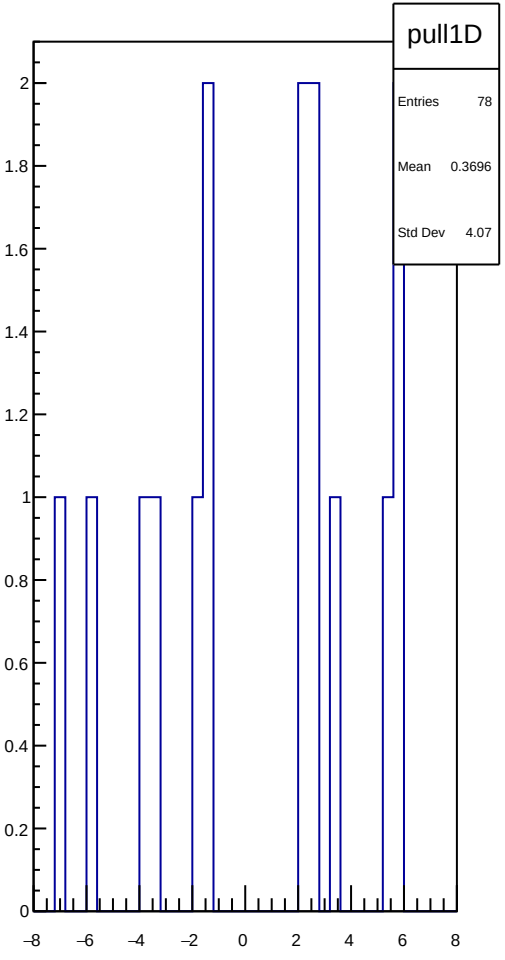

yield_cav4cX_rms vs run
χ^2 / ndf 2.184e+04 / 77
p0 1.949 ± 0.001594
3.5
3
2.5
2
1.5

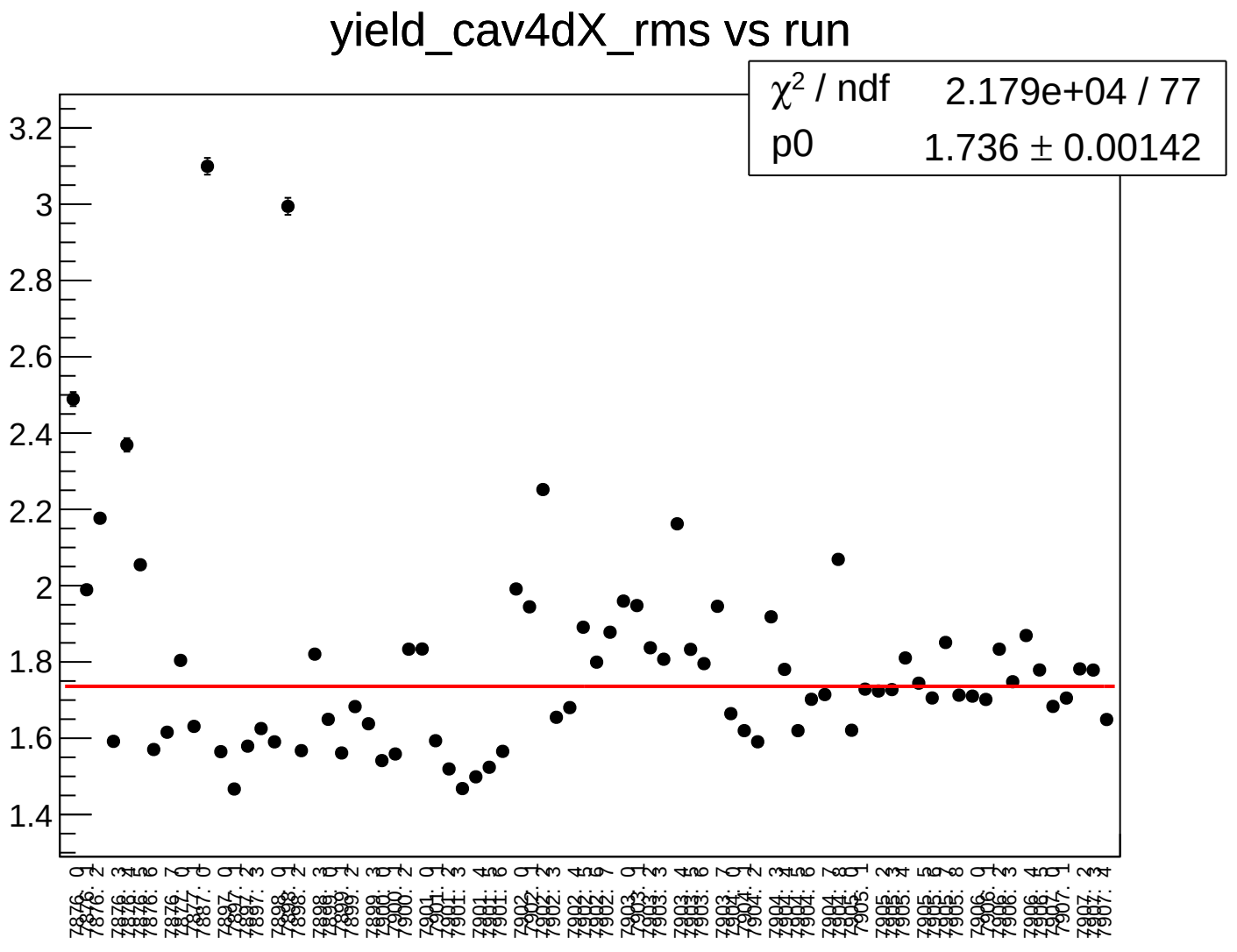

yield_cav4cY_mean vs run
χ² / ndf 5.475e+05 / 77
p0 −36.6 ± 0.0004146
−35.5
−36
−36.5
−37
−37.5
−38
−38.5
−39
−39.5
−40
pull
Entries 78
Mean 107.4
Std Dev 59.84
200
150
100
50
0
−50
−100
−150
−200

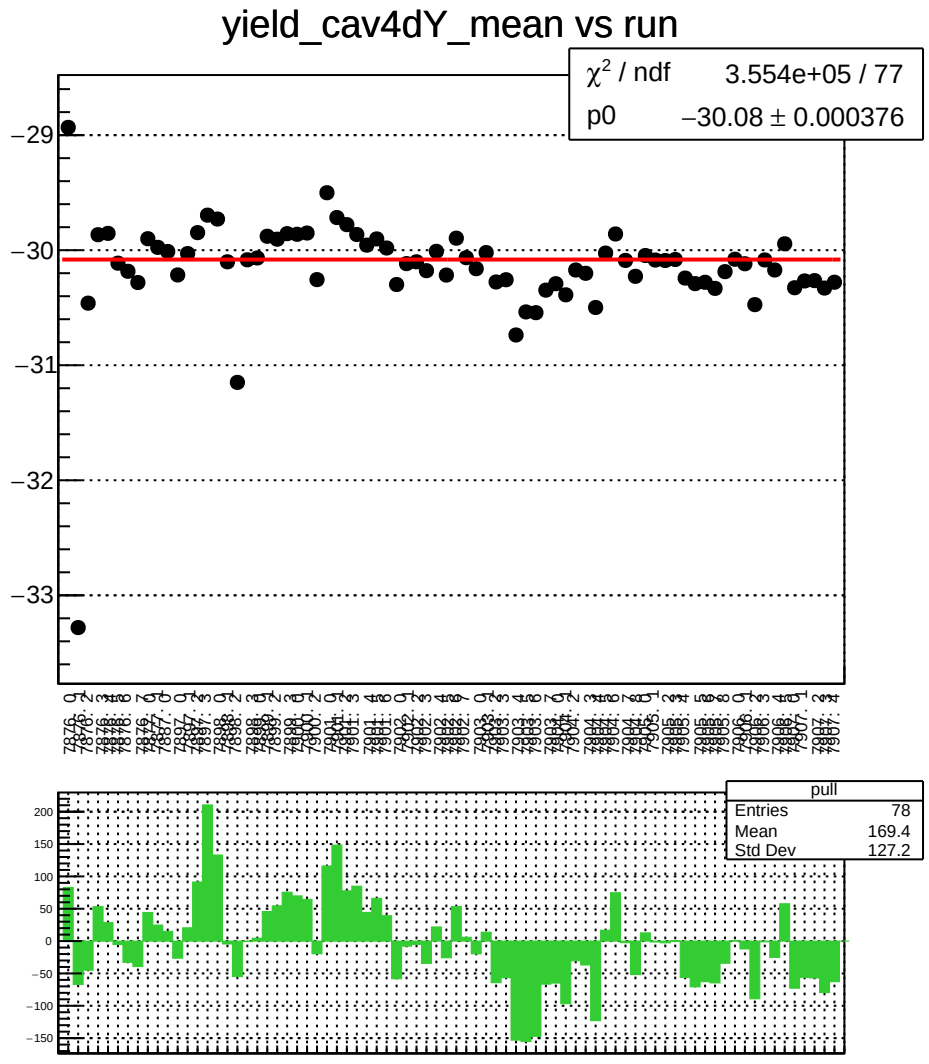

pull1D
Entries 78
Mean 3.046
Std Dev 3.134
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

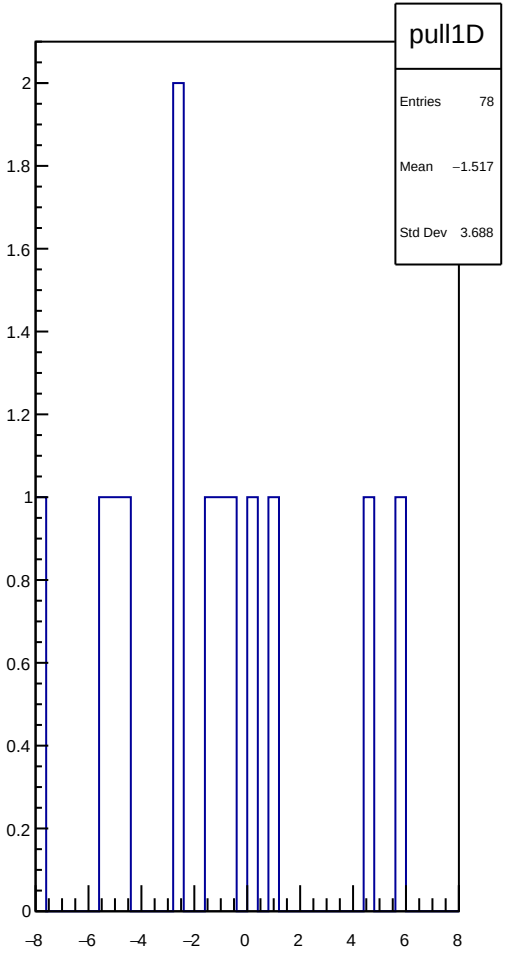

yield_cav4cY_rms vs run
χ^2 / ndf 1.47e+05 / 77
p0 0.3431 ± 0.0002932
4.5
4
3.5
3
2.5
2
1.5
1
0.5

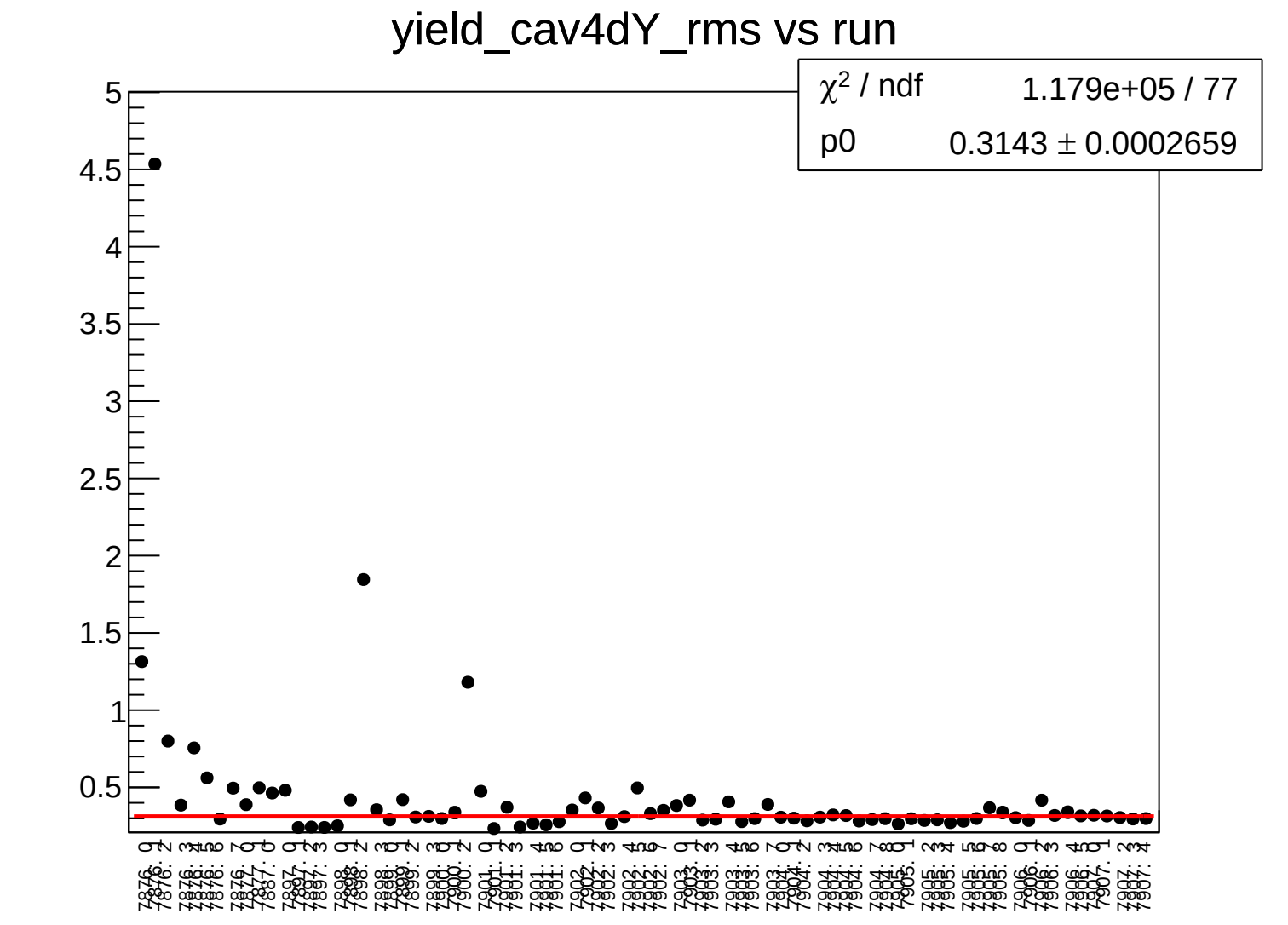

yield_cav4dX_mean vs run
χ² / ndf 6.709e+04 / 77
p0 1.619 ± 0.002009
pull
Entries 78
Mean 1248
Std Dev 1208

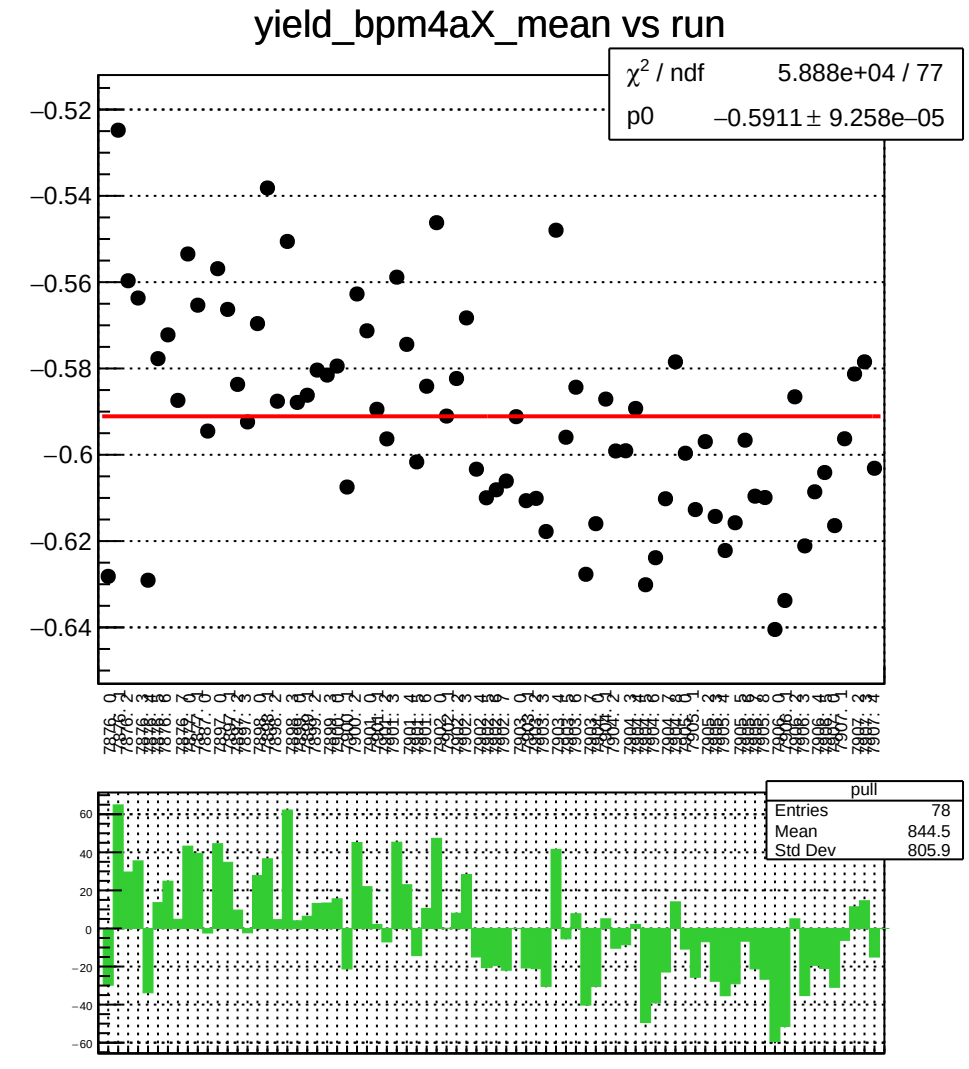

pull1D
Entries 78
Mean 0.3696
Std Dev 4.07

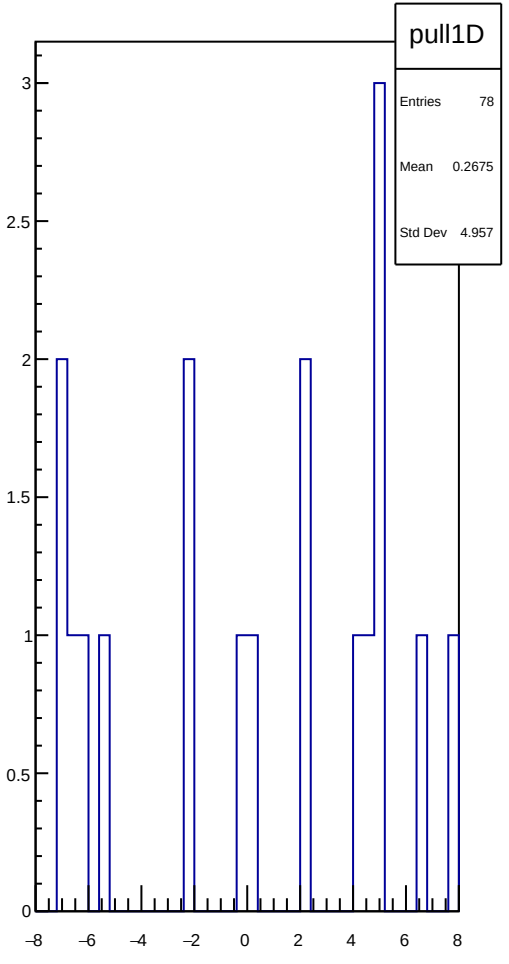

yield_cav4dX_rms vs run
χ² / ndf 2.179e+04 / 77
p0 1.736 ± 0.00142
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4

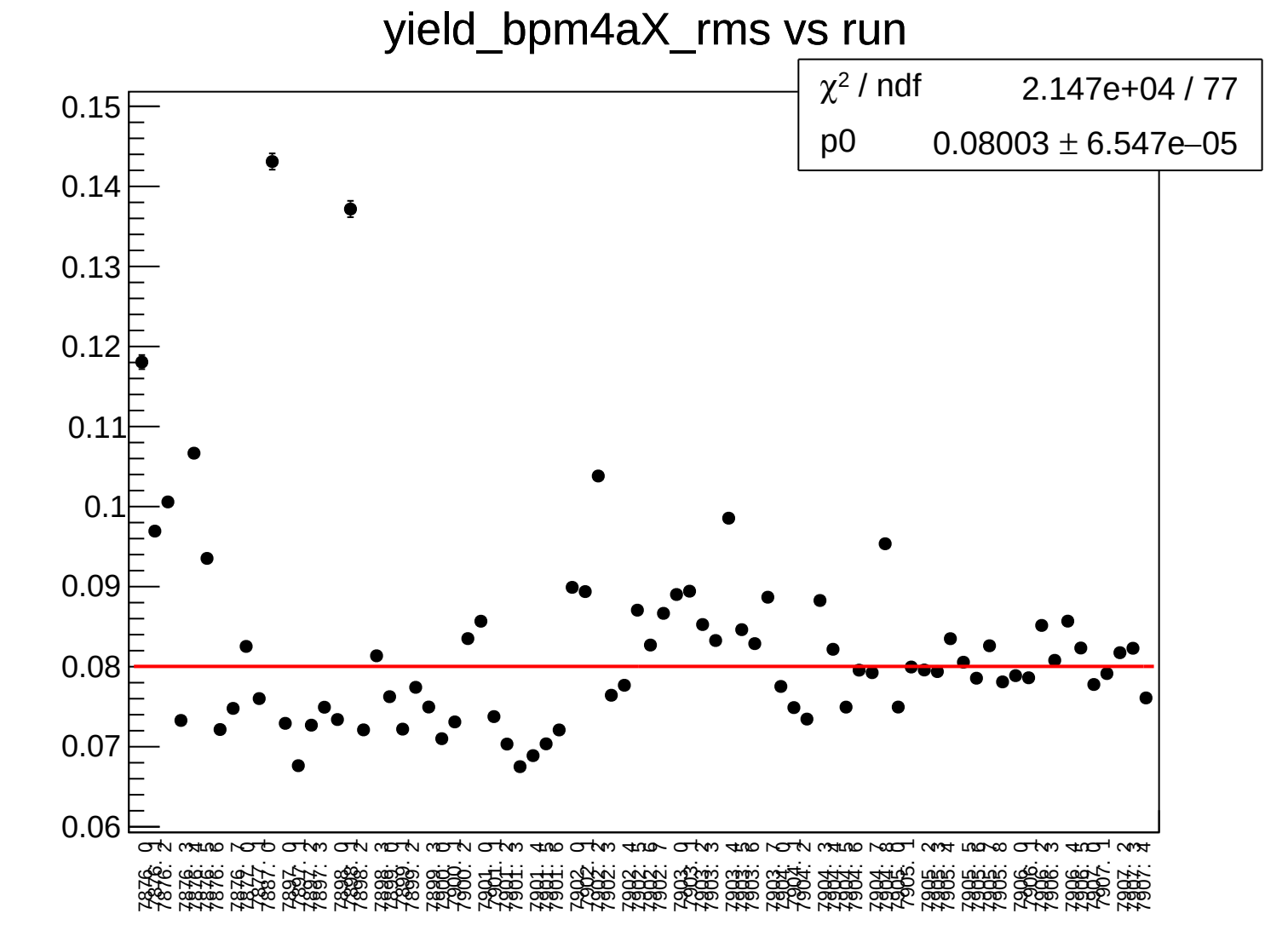

yield_cav4dY_mean vs run
χ² / ndf 3.554e+05 / 77
p0 −30.08 ± 0.000376
−29
−30
−31
−32
−33
pull
Entries 78
Mean 169.4
Std Dev 127.2
200
150
100
50
0
−50
−100
−150

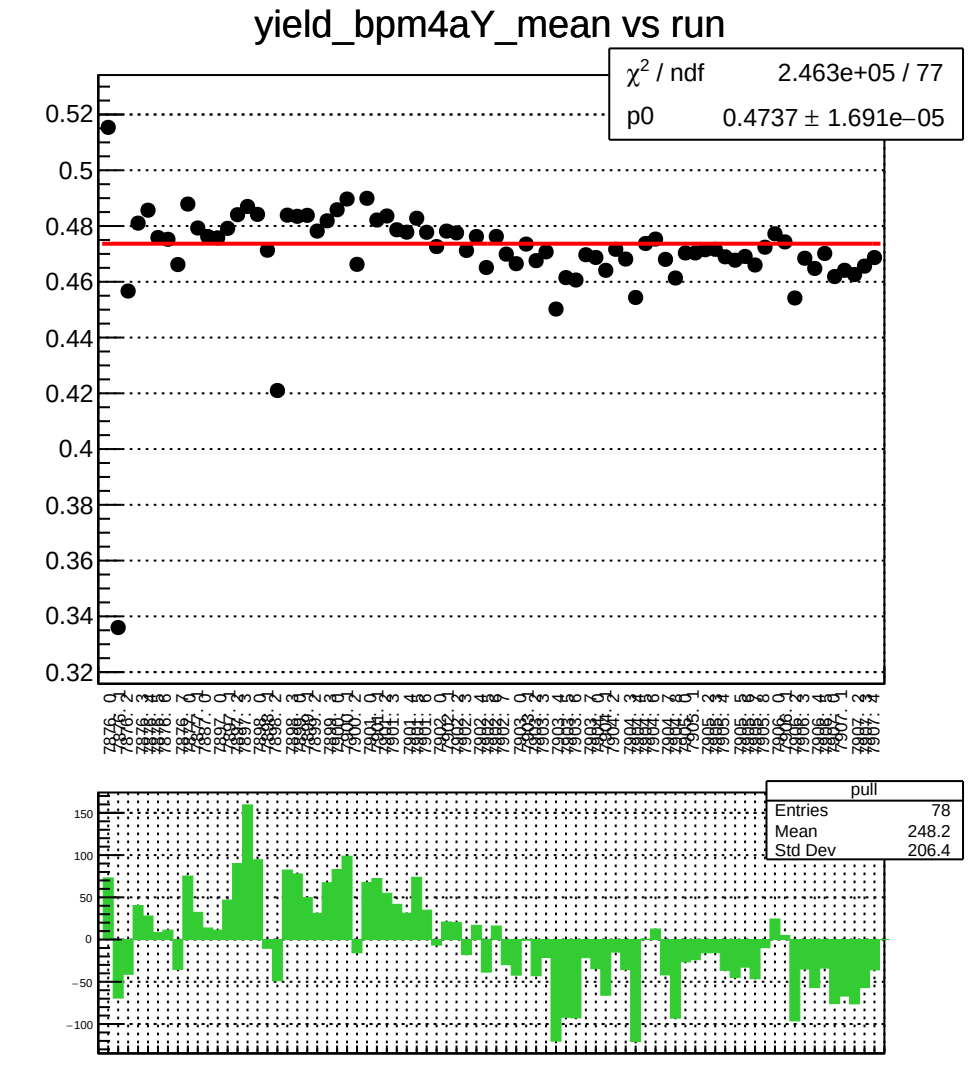

pull1D
Entries 78
Mean −1.517
Std Dev 3.688
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

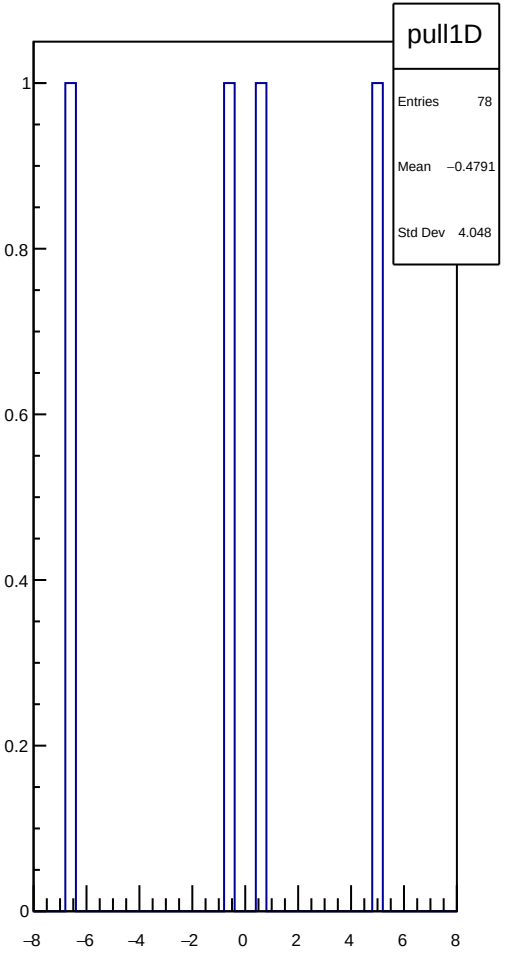

yield_cav4dY_rms vs run
χ² / ndf 1.179e+05 / 77
p0 0.3143 ± 0.0002659
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5

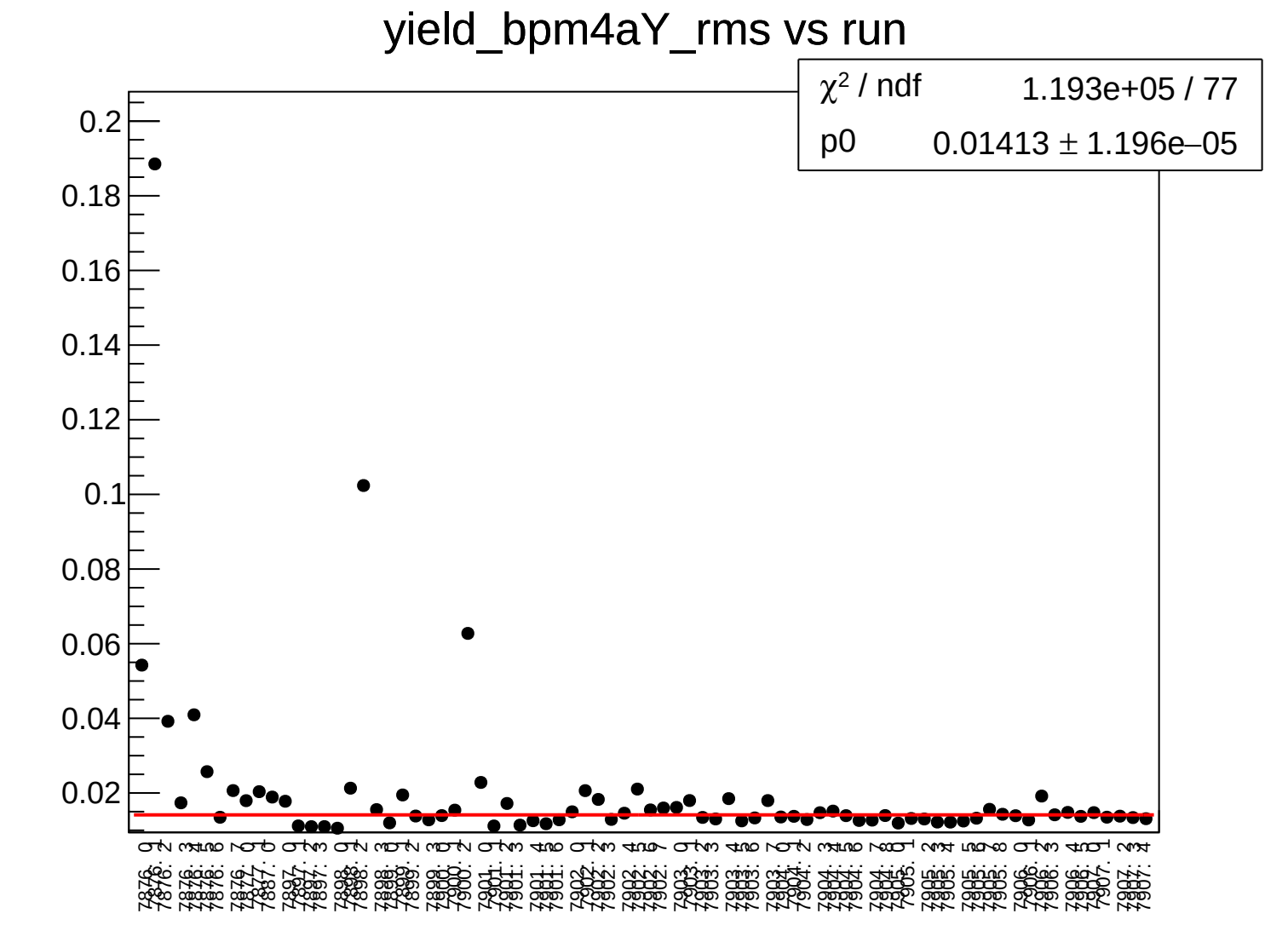

yield_bpm4aX_mean vs run
χ² / ndf 5.888e+04 / 77
p0 −0.5911 ± 9.258e−05
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
pull
Entries 78
Mean 844.5
Std Dev 805.9
60
40
20
0
−20
−40
−60

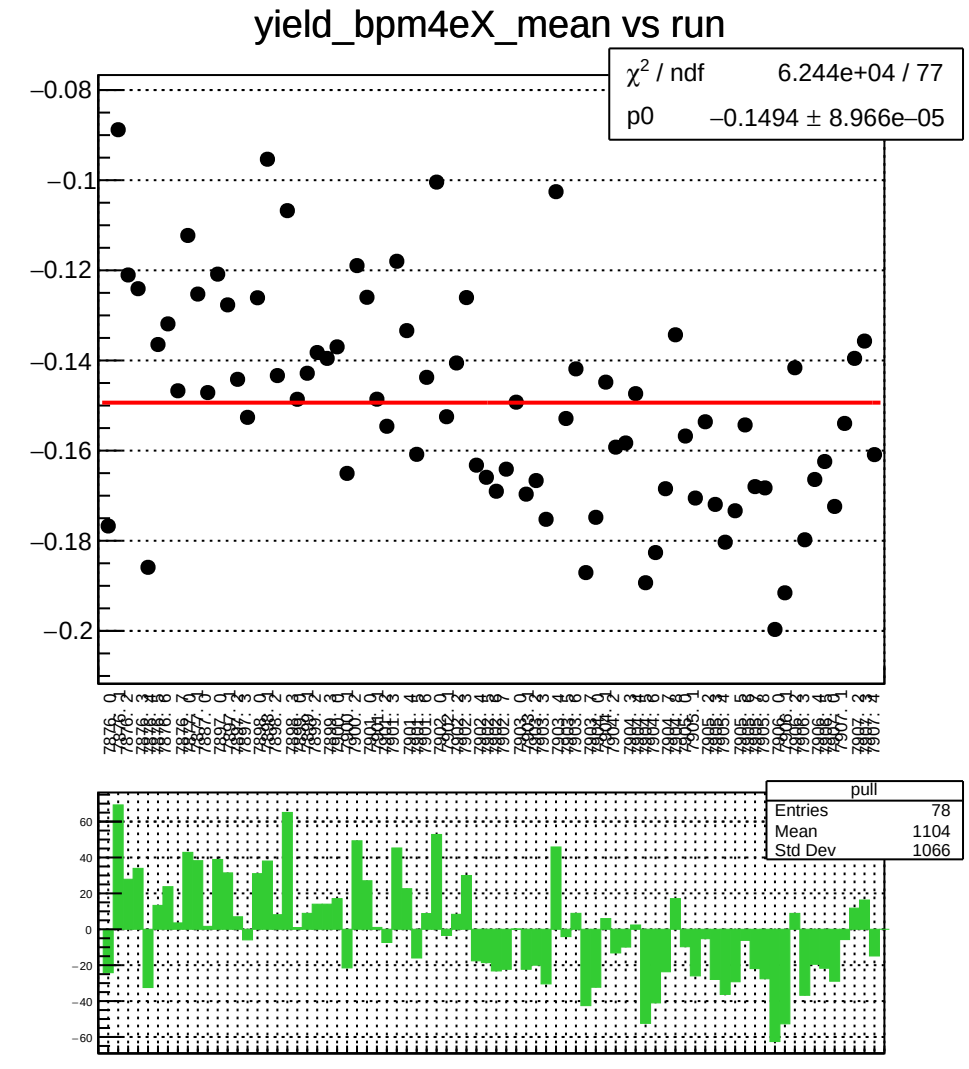

pull1D
Entries 78
Mean 0.2675
Std Dev 4.957
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

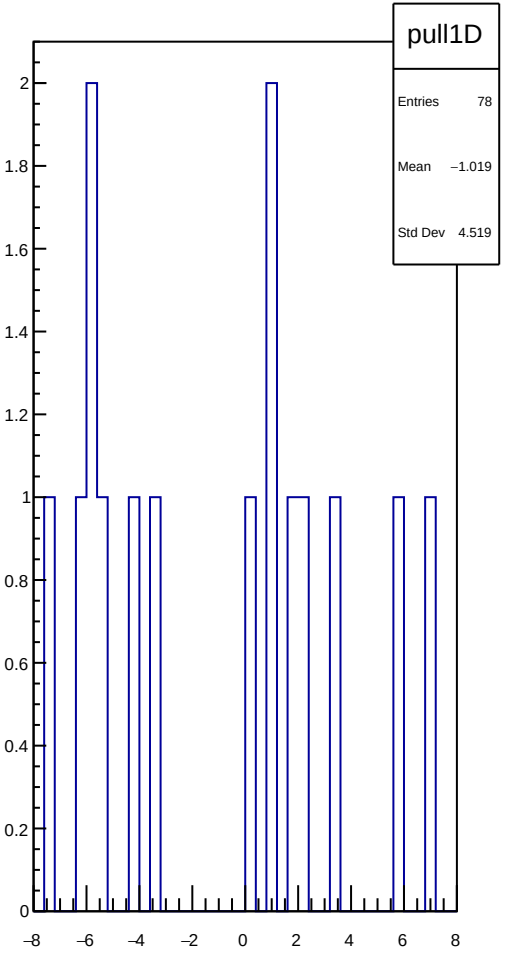

yield_bpm4aX_rms vs run
χ² / ndf 2.147e+04 / 77
p0 0.08003 ± 6.547e–05
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06

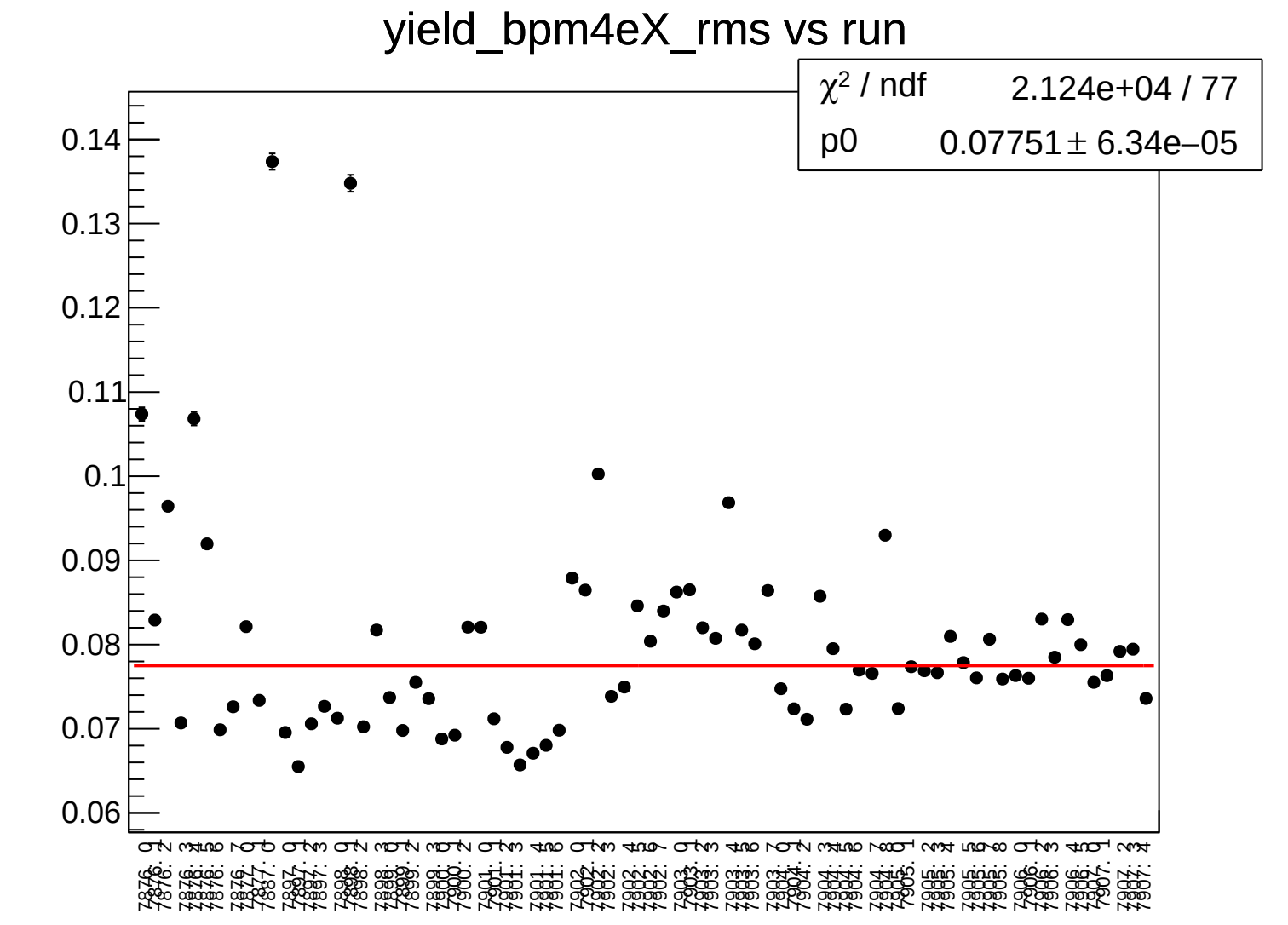

yield_bpm4aY_mean vs run
χ² / ndf 2.463e+05 / 77
p0 0.4737 ± 1.691e−05
pull
Entries 78
Mean 248.2
Std Dev 206.4

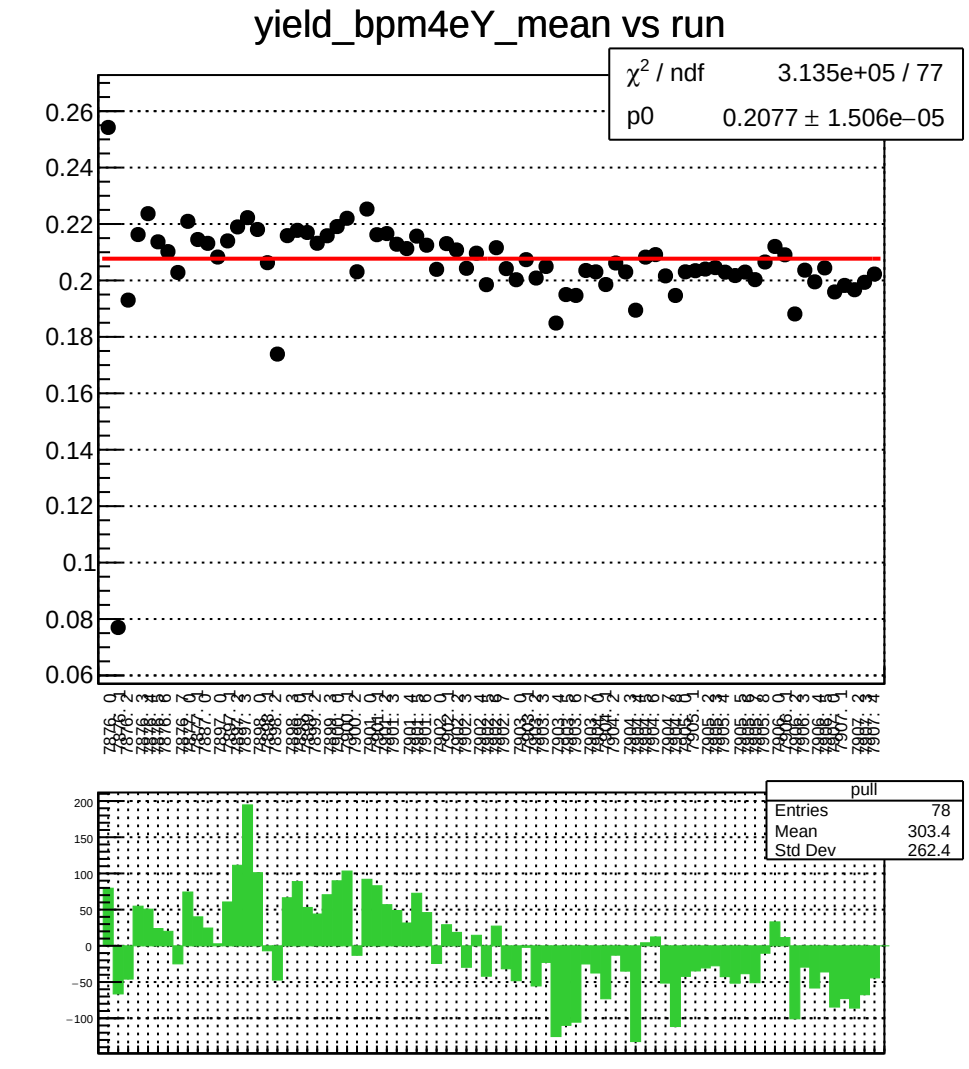

pull1D
Entries 78
Mean −0.4791
Std Dev 4.048

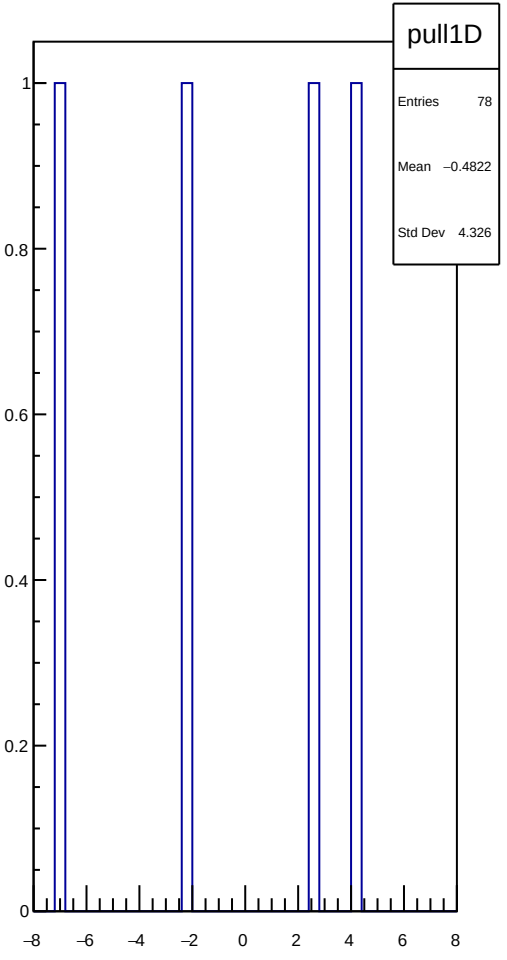

yield_bpm4aY_rms vs run
χ² / ndf 1.193e+05 / 77
p0 0.01413 ± 1.196e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

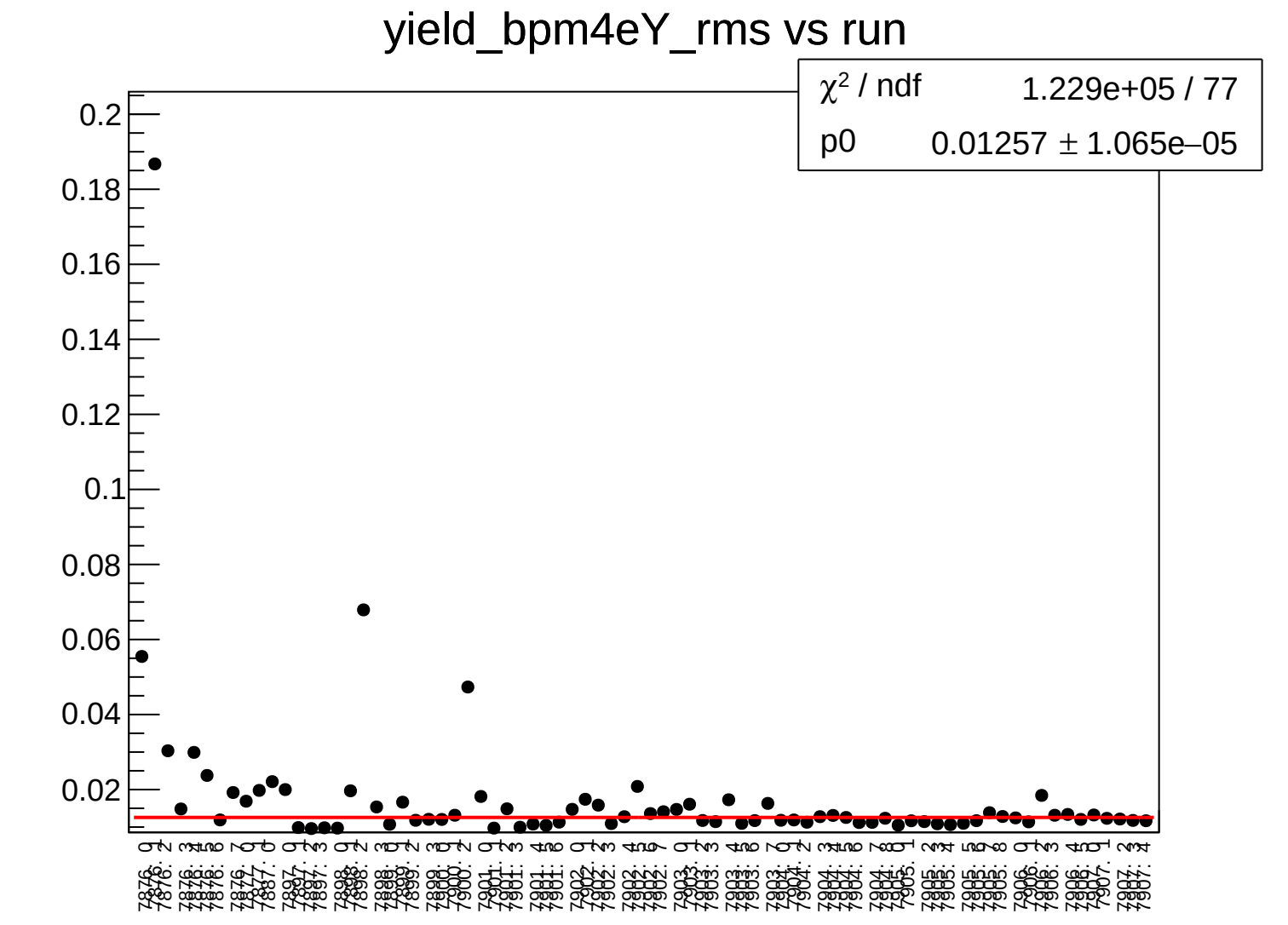

yield_bpm4eX_mean vs run
χ² / ndf 6.244e+04 / 77
p0 −0.1494 ± 8.966e−05
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
−0.2
pull
Entries 78
Mean 1104
Std Dev 1066
60
40
20
0
−20
−40
−60

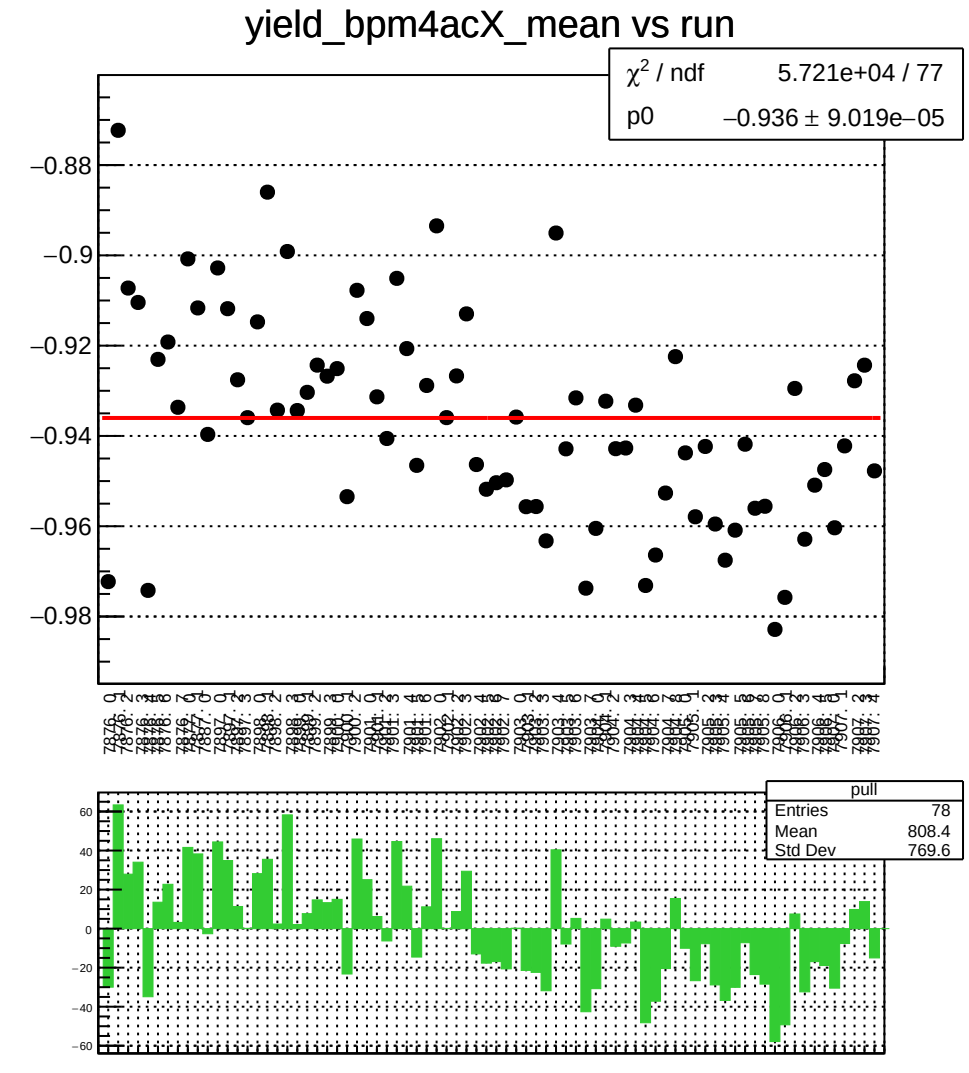

pull1D
Entries 78
Mean −1.019
Std Dev 4.519
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

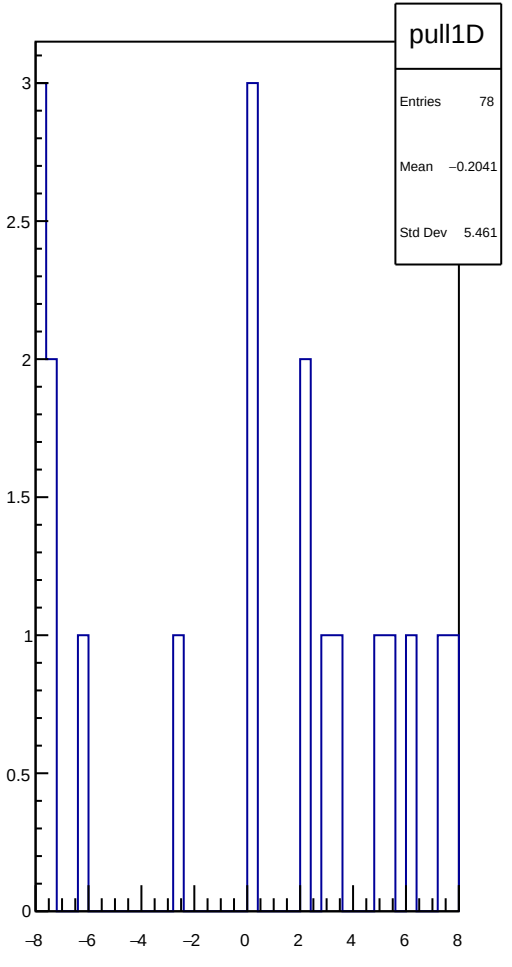

yield_bpm4eX_rms vs run
χ² / ndf 2.124e+04 / 77
p0 0.07751 ± 6.34e−05
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06

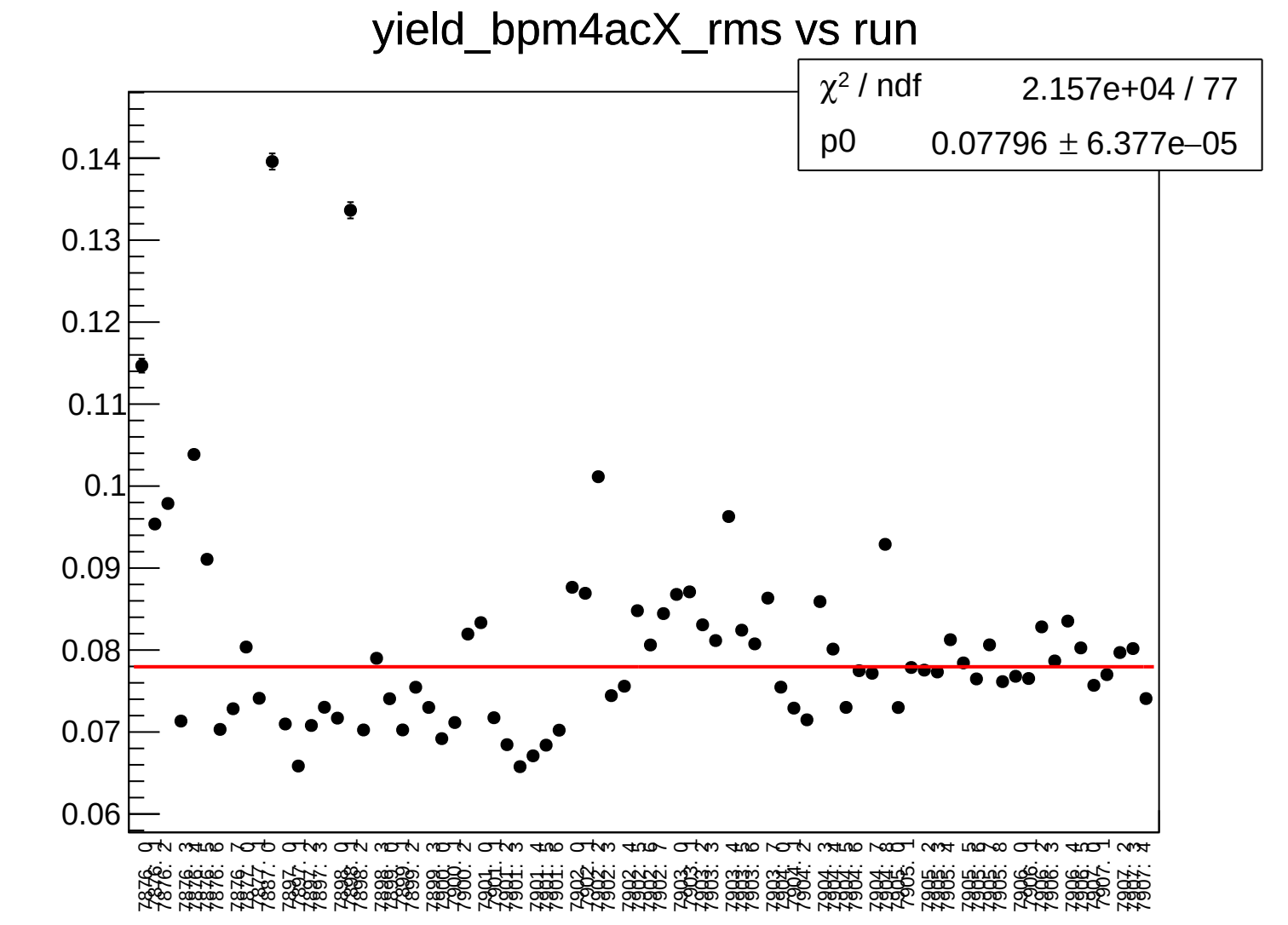

yield_bpm4eY_mean vs run
χ² / ndf 3.135e+05 / 77
p0 0.2077 ± 1.506e−05
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
pull
Entries 78
Mean 303.4
Std Dev 262.4
200
150
100
50
0
−50
−100

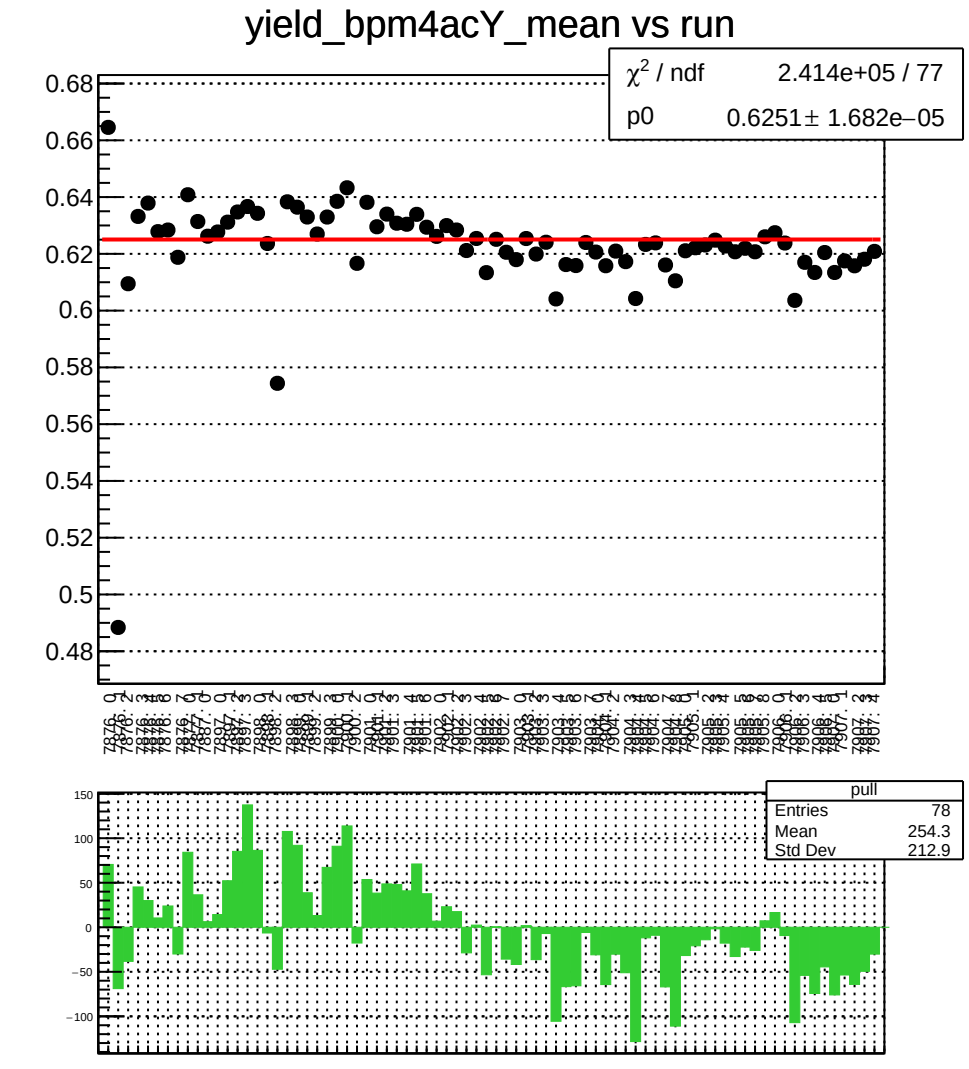

pull1D
Entries 78
Mean −0.4822
Std Dev 4.326
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

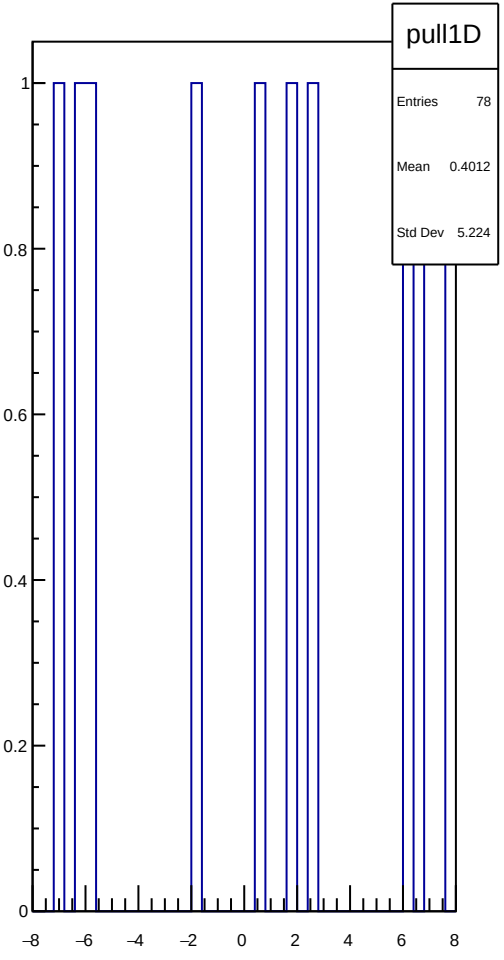

yield_bpm4eY_rms vs run
χ² / ndf 1.229e+05 / 77
p0 0.01257 ± 1.065e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

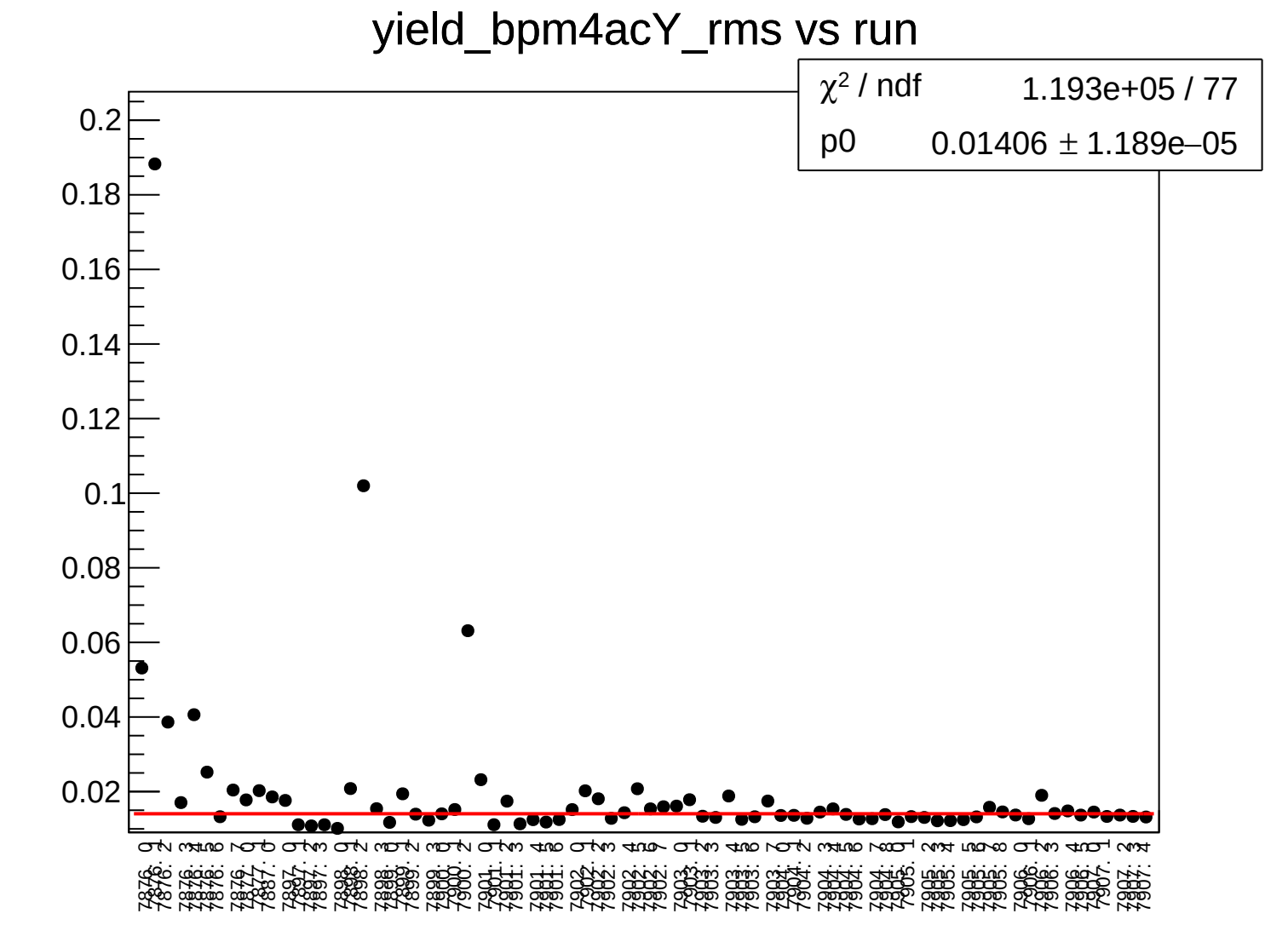

yield_bpm4acX_mean vs run
χ² / ndf 5.721e+04 / 77
p0 −0.936 ± 9.019e−05
−0.88
−0.9
−0.92
−0.94
−0.96
−0.98
pull
Entries 78
Mean 808.4
Std Dev 769.6
60
40
20
0
−20
−40
−60

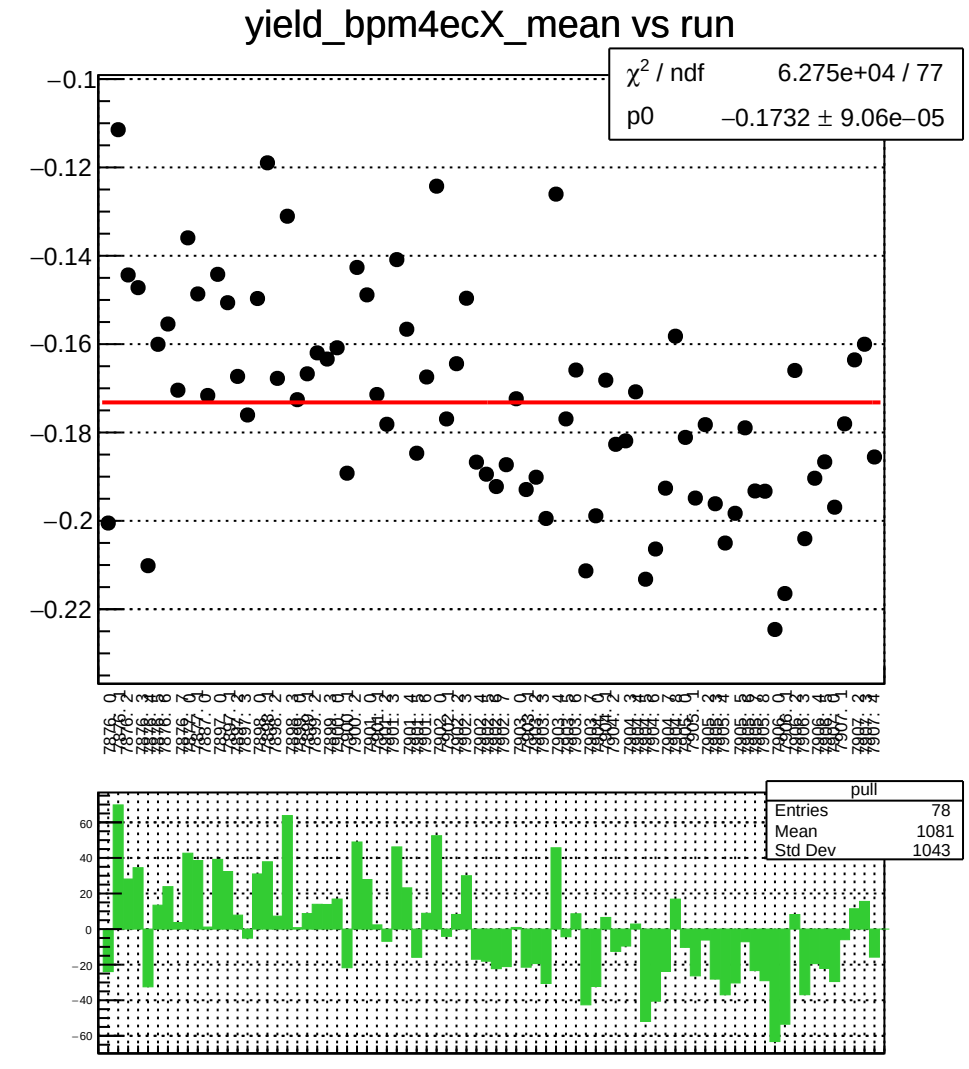

pull1D
Entries 78
Mean −0.2041
Std Dev 5.461
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

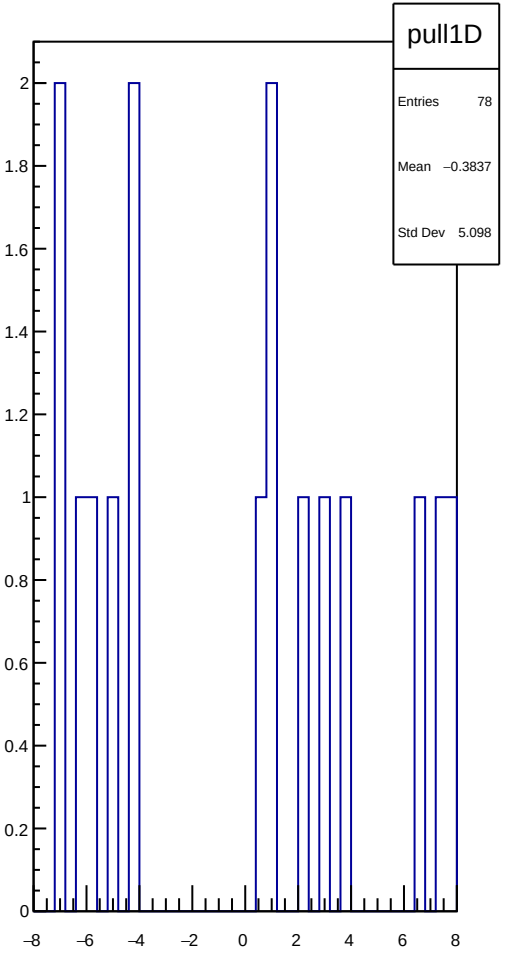

yield_bpm4acX_rms vs run
χ² / ndf 2.157e+04 / 77
p0 0.07796 ± 6.377e–05
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06

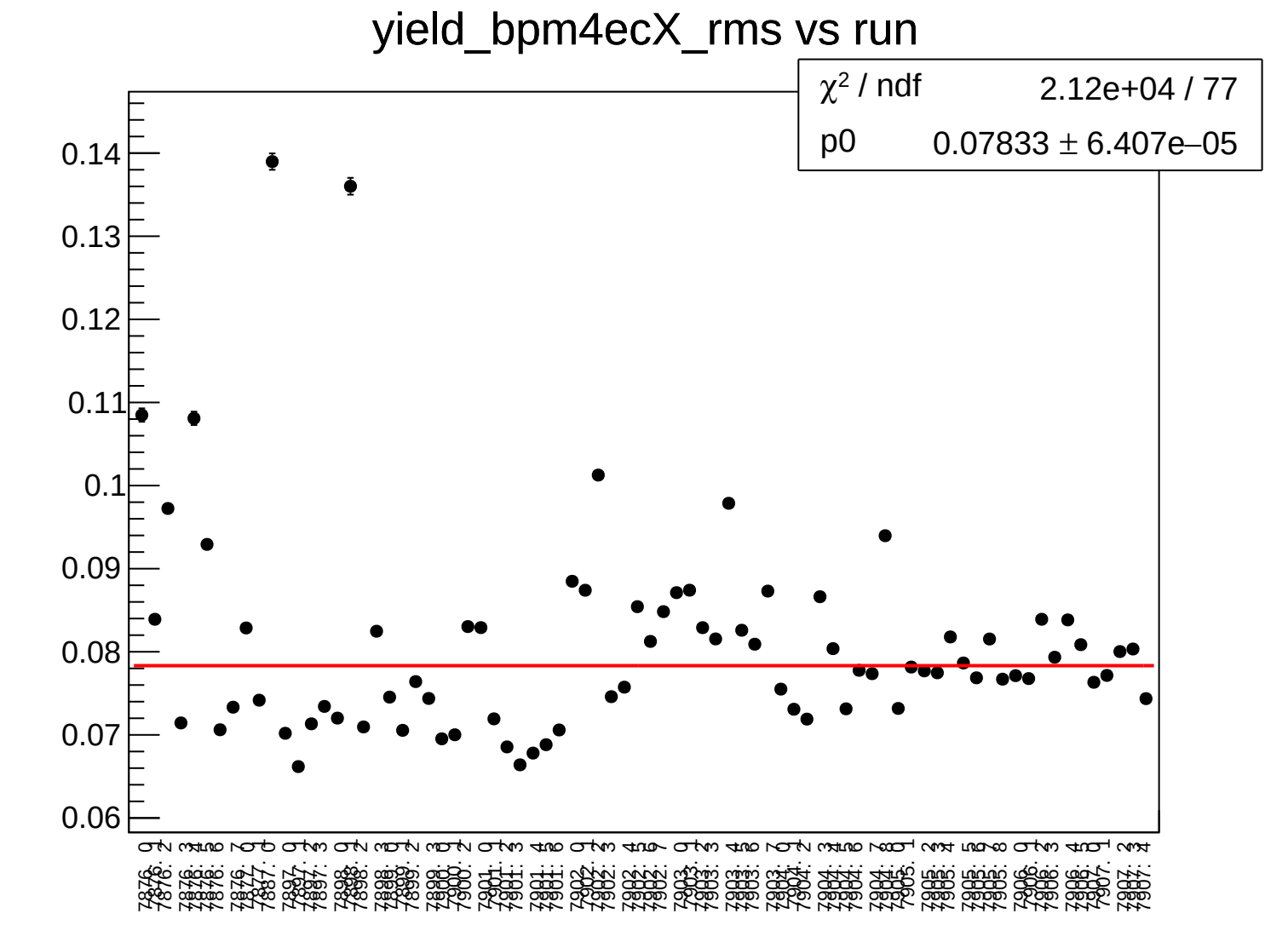

yield_bpm4acY_mean vs run
χ² / ndf 2.414e+05 / 77
p0 0.6251 ± 1.682e−05
pull
Entries 78
Mean 254.3
Std Dev 212.9

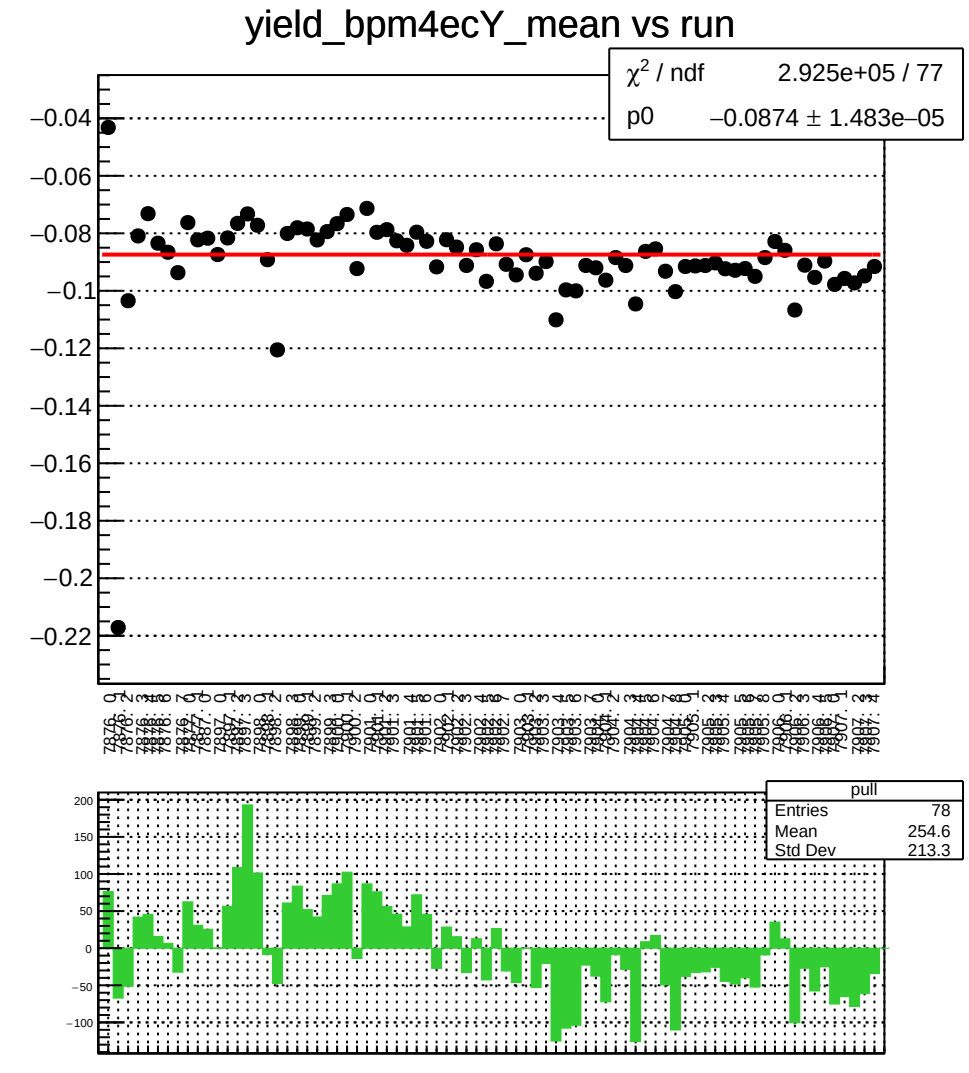

pull1D
Entries 78
Mean 0.4012
Std Dev 5.224

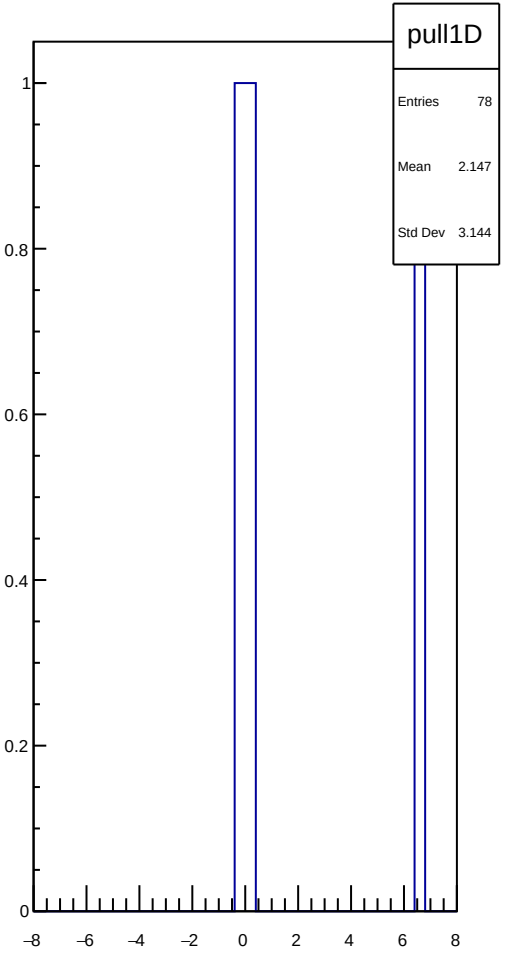

yield_bpm4acY_rms vs run
χ² / ndf 1.193e+05 / 77
p0 0.01406 ± 1.189e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

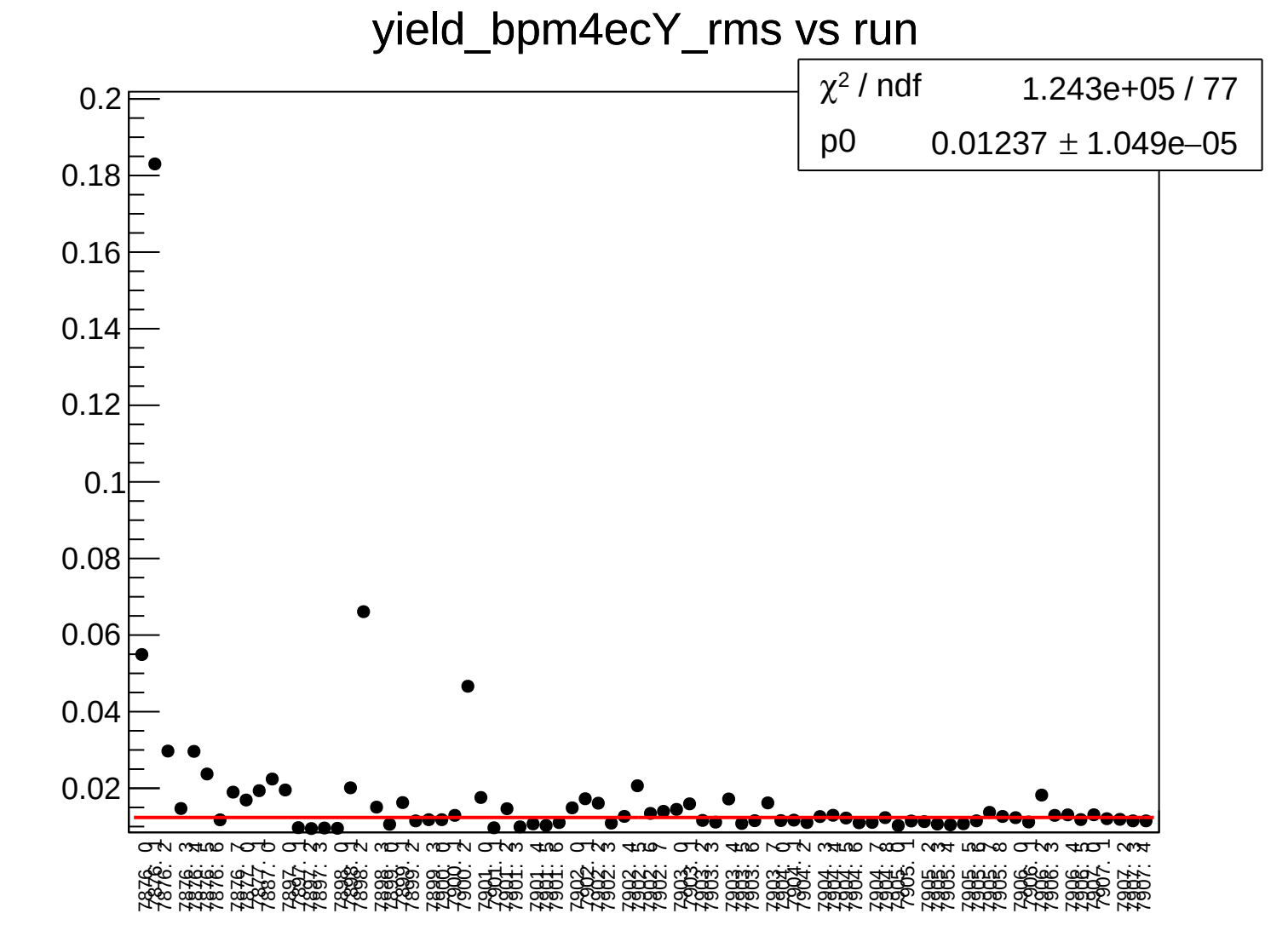

yield_bpm4ecX_mean vs run
χ² / ndf 6.275e+04 / 77
p0 −0.1732 ± 9.06e−05
pull
Entries 78
Mean 1081
Std Dev 1043

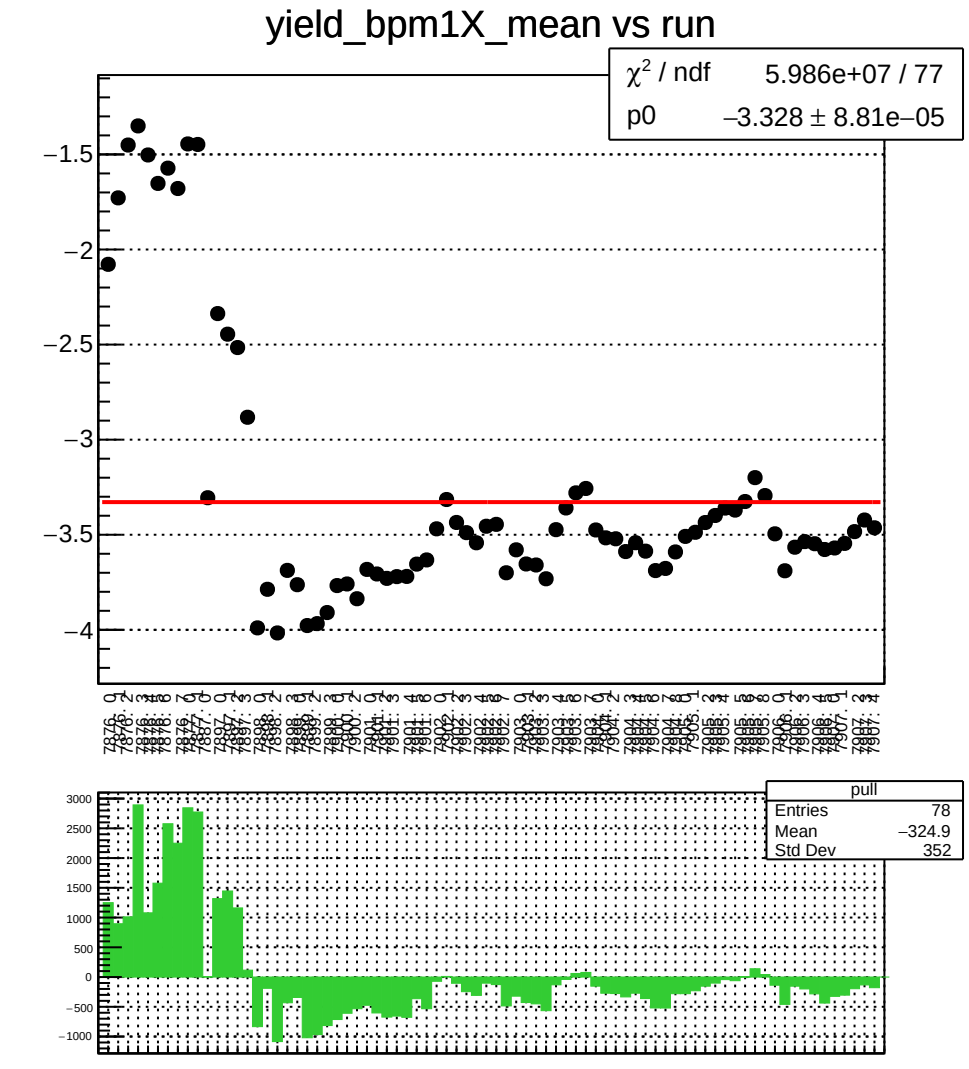

pull1D
Entries 78
Mean −0.3837
Std Dev 5.098

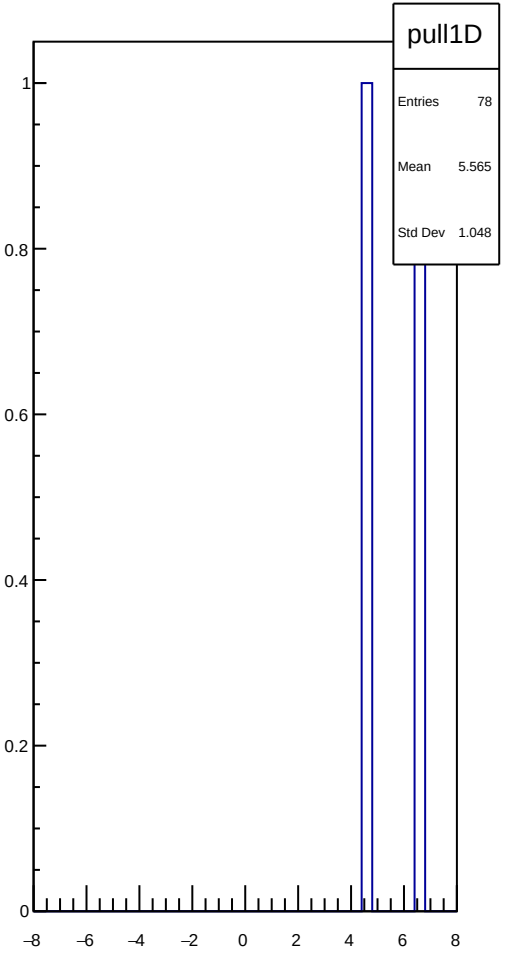

yield_bpm4ecX_rms vs run
χ² / ndf 2.12e+04 / 77
p0 0.07833 ± 6.407e−05
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06

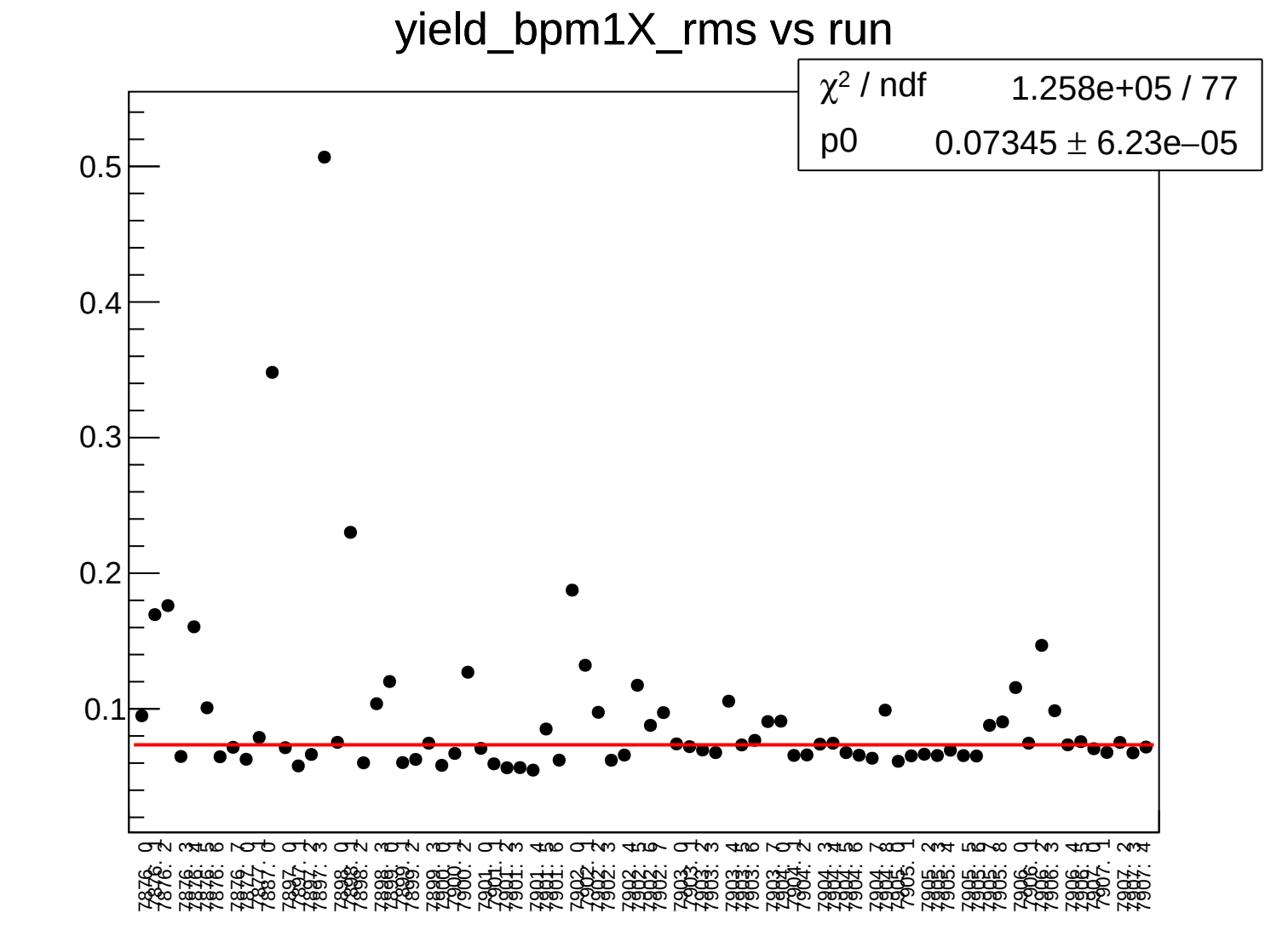

yield_bpm4ecY_mean vs run
χ² / ndf 2.925e+05 / 77
p0 −0.0874 ± 1.483e−05
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
−0.2
−0.22
pull
Entries 78
Mean 254.6
Std Dev 213.3
200
150
100
50
0
−50
−100

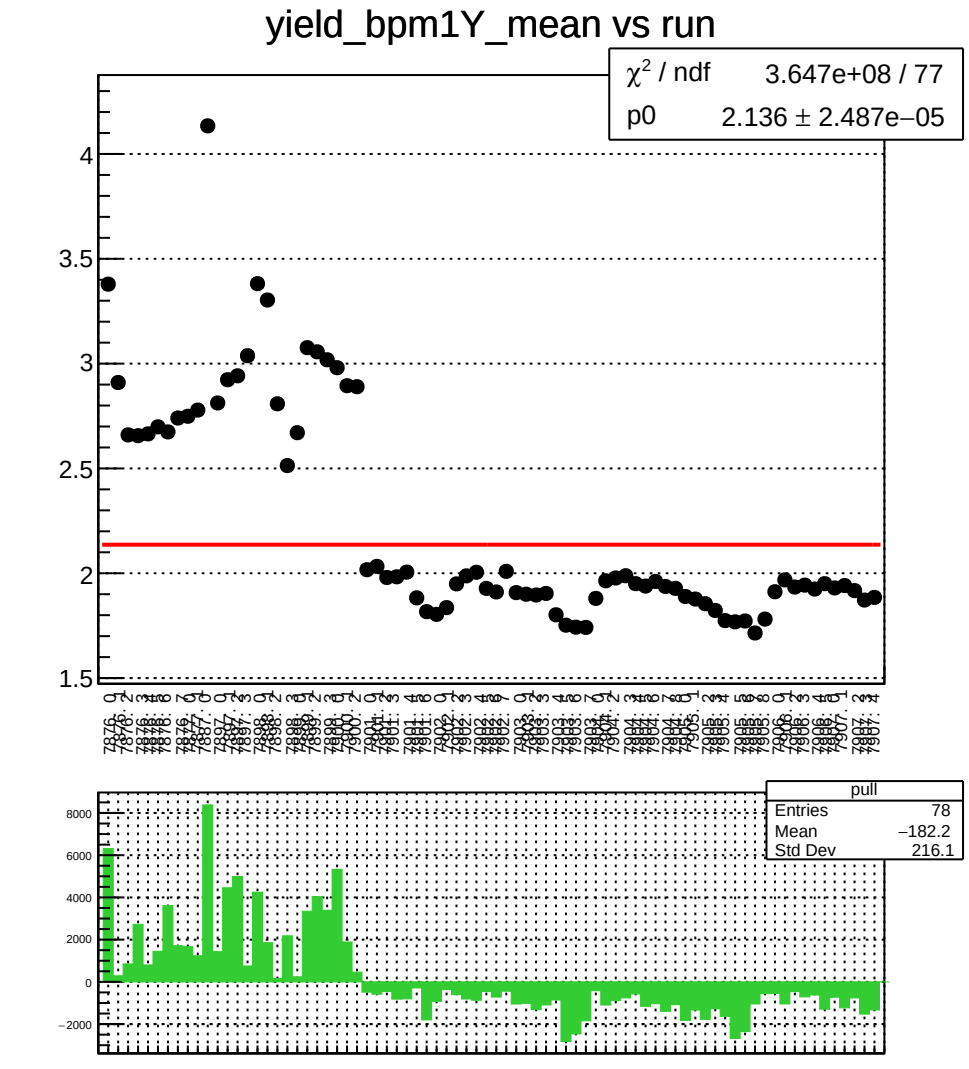

pull1D
Entries 78
Mean 2.147
Std Dev 3.144
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

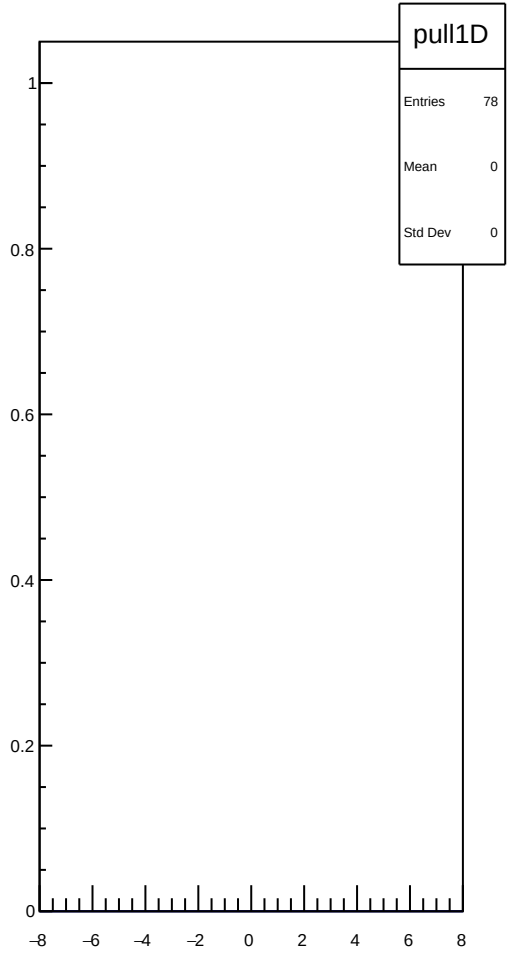

yield_bpm4ecY_rms vs run
χ² / ndf 1.243e+05 / 77
p0 0.01237 ± 1.049e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

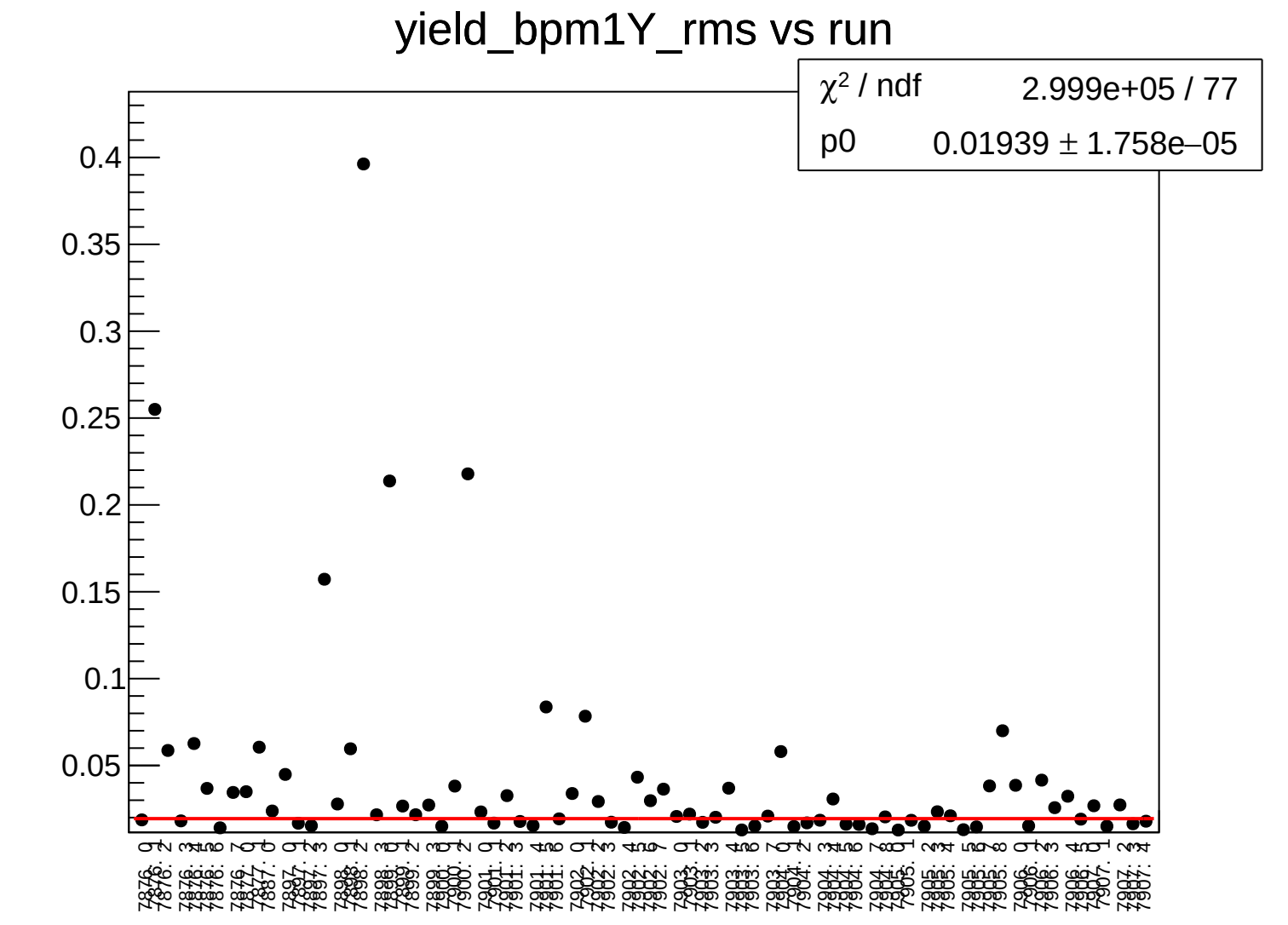

yield_bpm1X_mean vs run
χ² / ndf 5.986e+07 / 77
p0 −3.328 ± 8.81e−05
−1.5
−2
−2.5
−3
−3.5
−4
pull
Entries 78
Mean −324.9
Std Dev 352
3000
2500
2000
1500
1000
500
0
−500
−1000

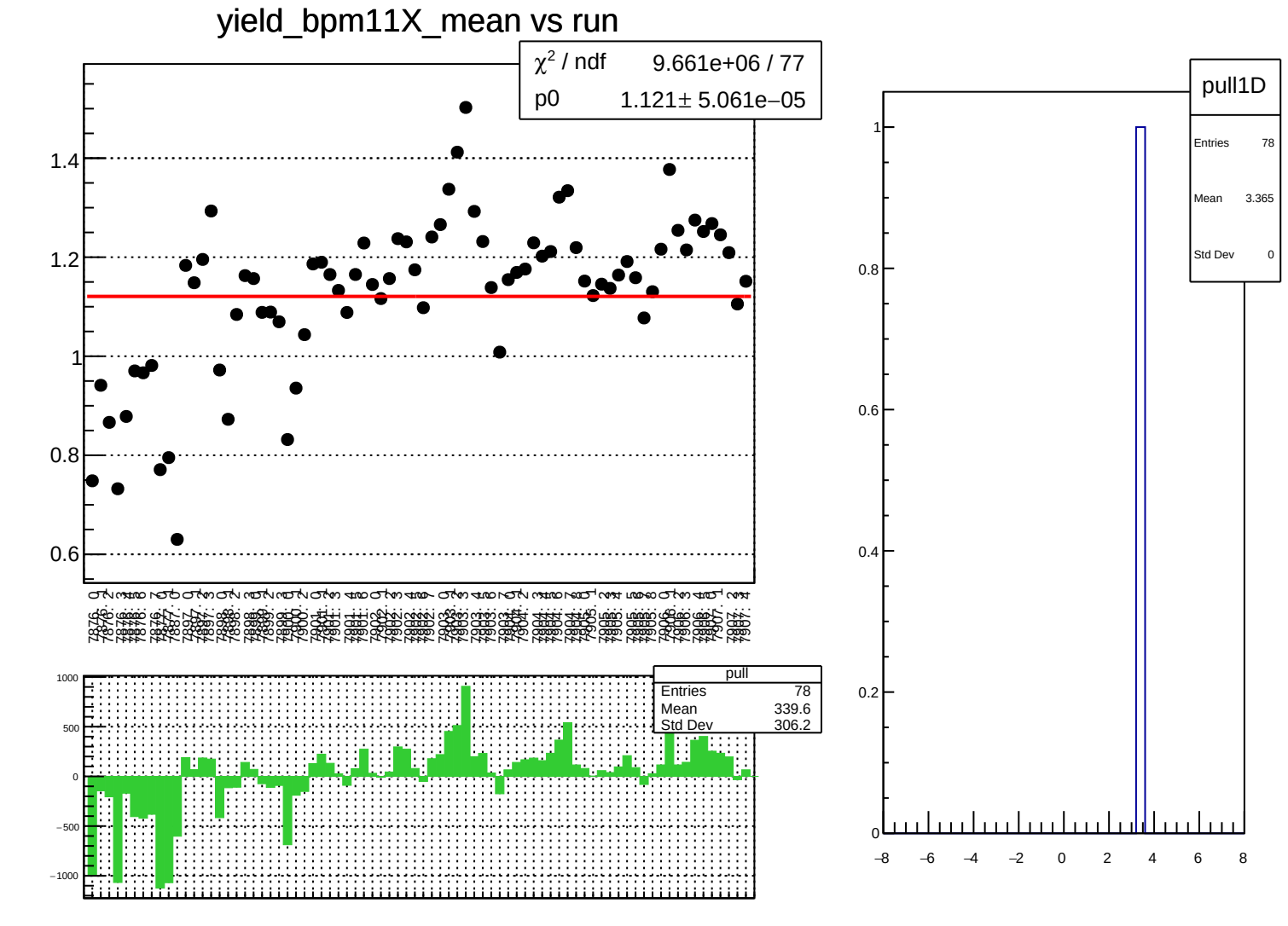

pull1D
Entries 78
Mean 5.565
Std Dev 1.048
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

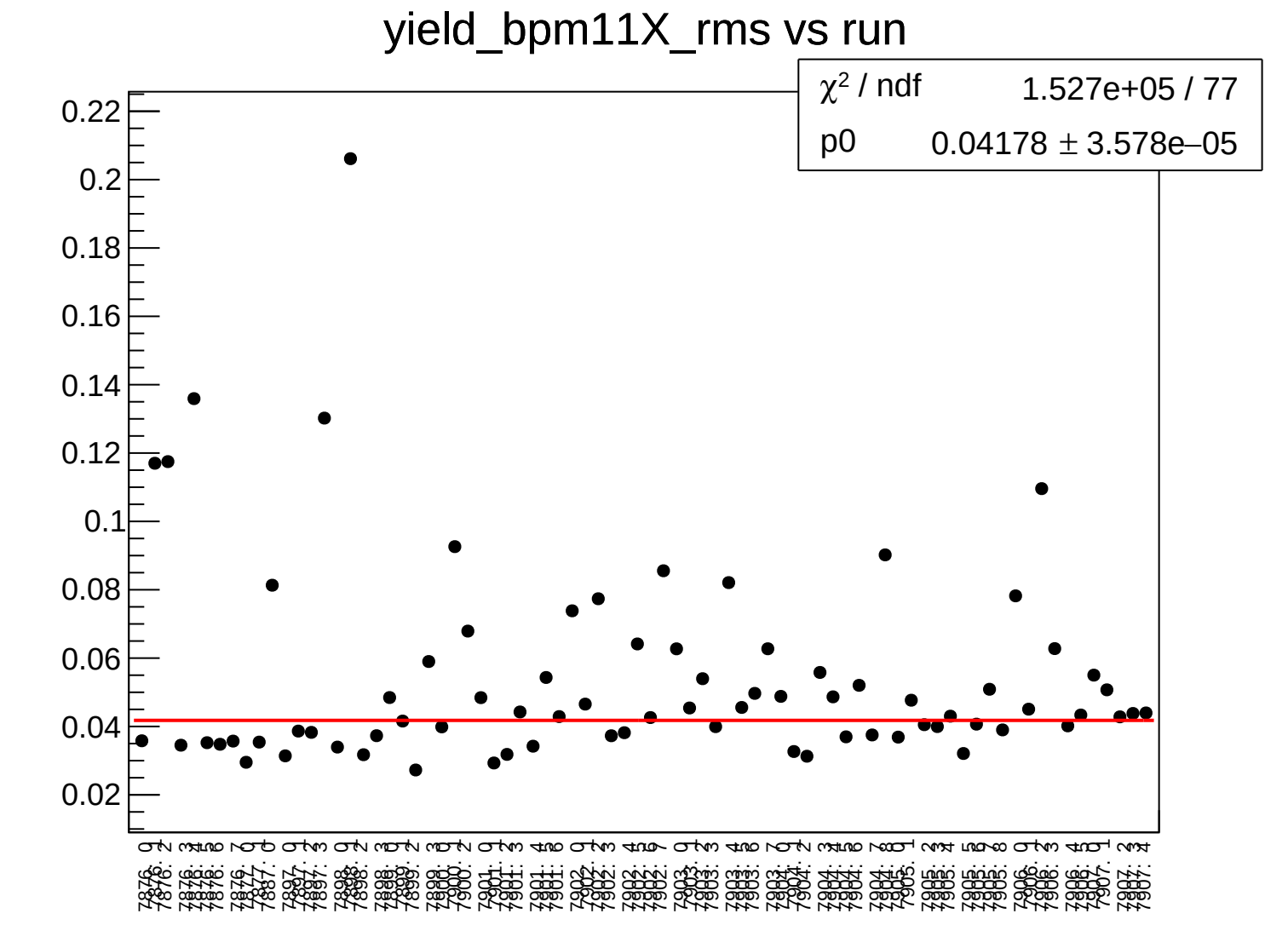

yield_bpm1X_rms vs run
χ² / ndf 1.258e+05 / 77
p0 0.07345 ± 6.23e−05
0.5
0.4
0.3
0.2
0.1

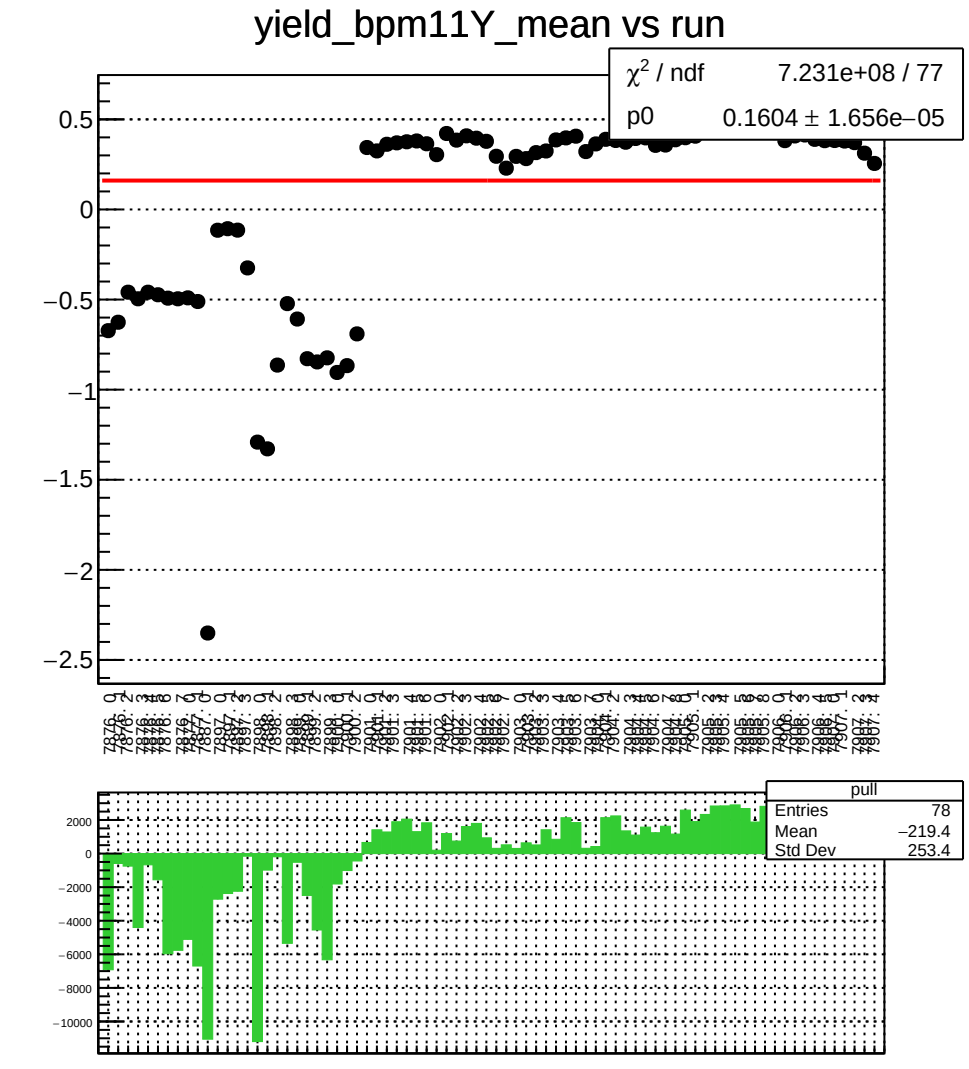

yield_bpm1Y_mean vs run
χ² / ndf 3.647e+08 / 77
p0 2.136 ± 2.487e−05
pull
Entries 78
Mean −182.2
Std Dev 216.1

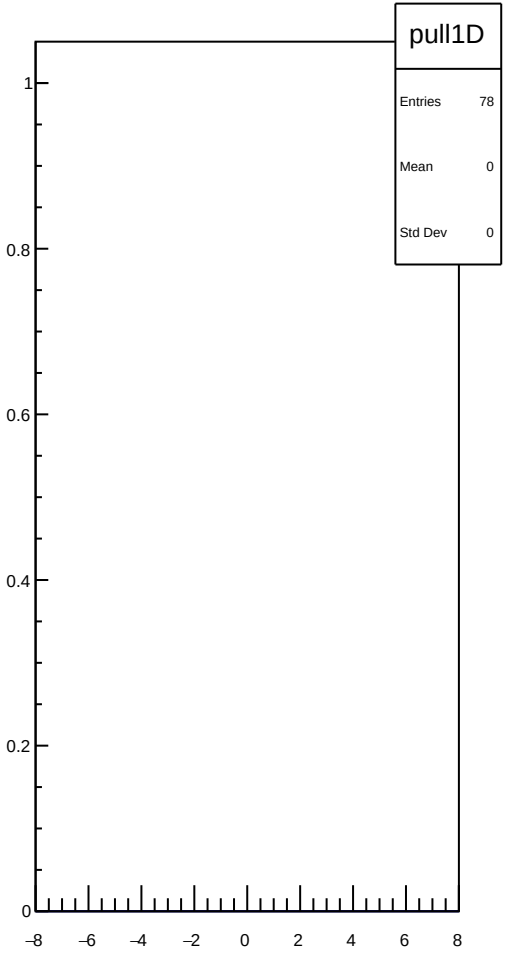

pull1D
Entries 78
Mean 0
Std Dev 0

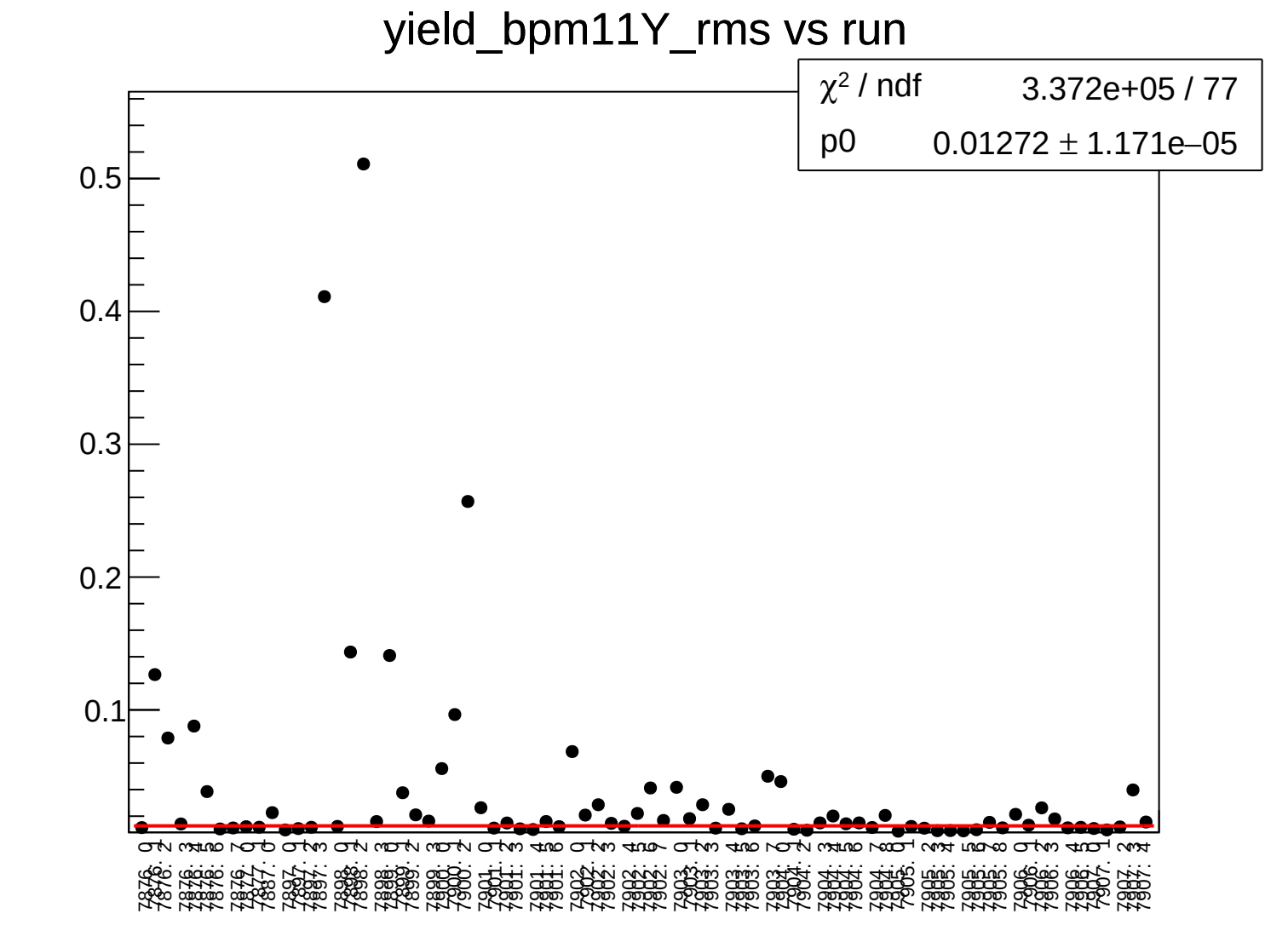

yield_bpm1Y_rms vs run
χ^2 / ndf 2.999e+05 / 77
p0 0.01939 ± 1.758e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

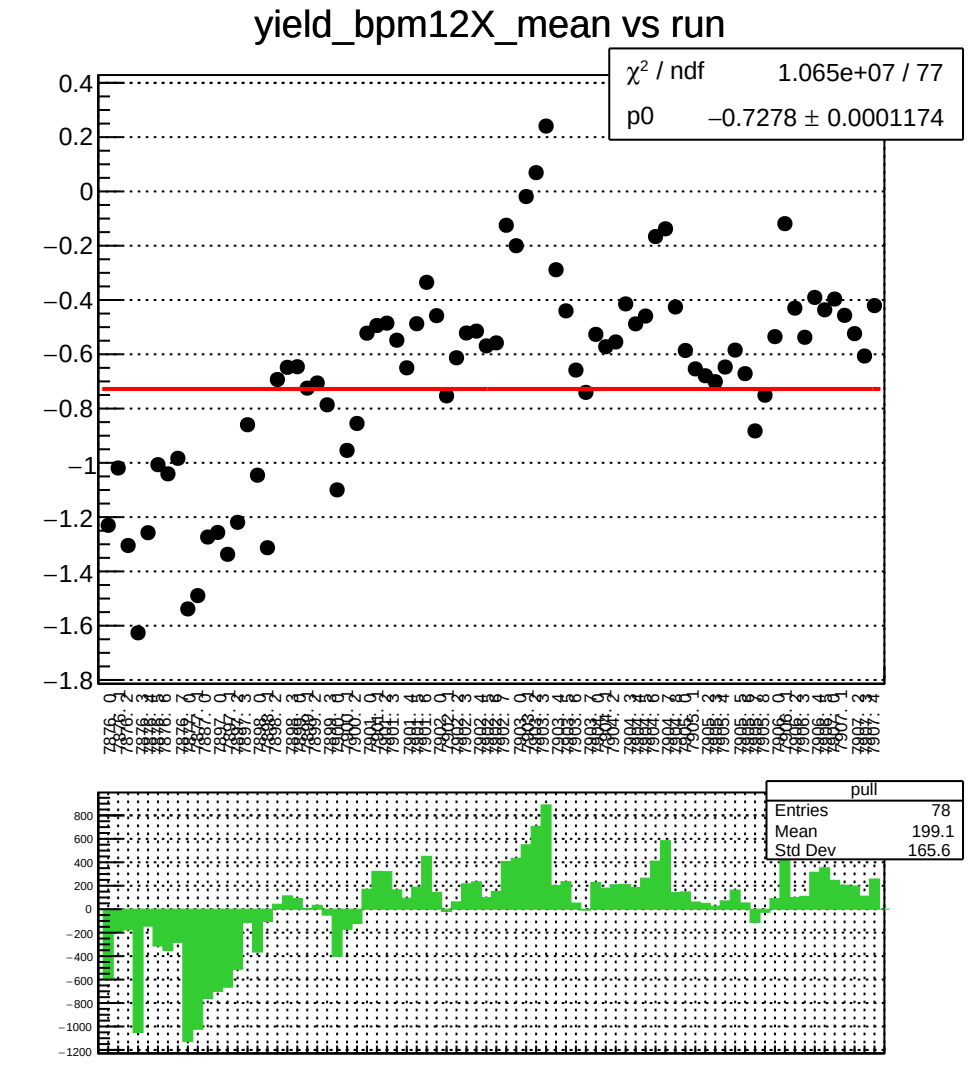

yield_bpm11X_mean vs run
χ² / ndf 9.661e+06 / 77
p0 1.121± 5.061e−05
1.4
1.2
1
0.8
0.6
pull
Entries 78
Mean 339.6
Std Dev 306.2
1000
500
0
−500
−1000
pull1D
Entries 78
Mean 3.365
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

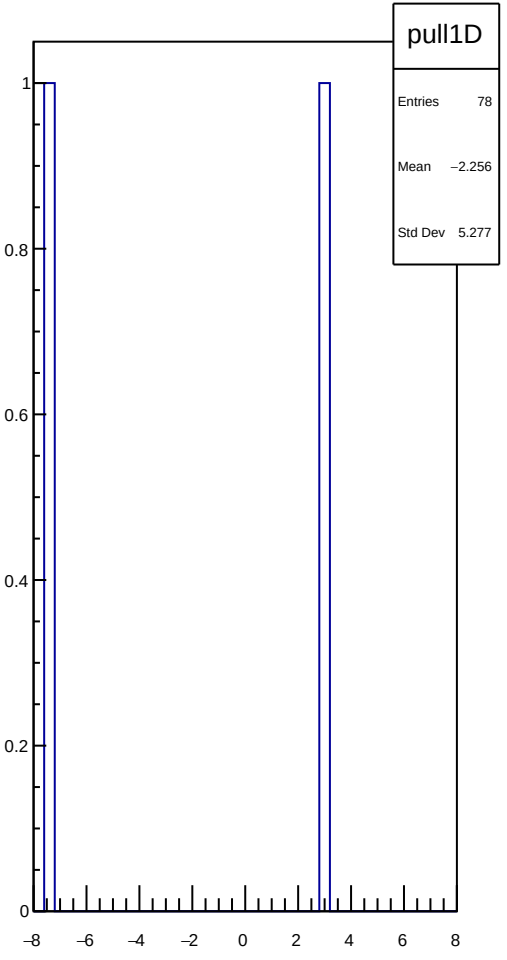

yield_bpm11X_rms vs run
χ² / ndf 1.527e+05 / 77
p0 0.04178 ± 3.578e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

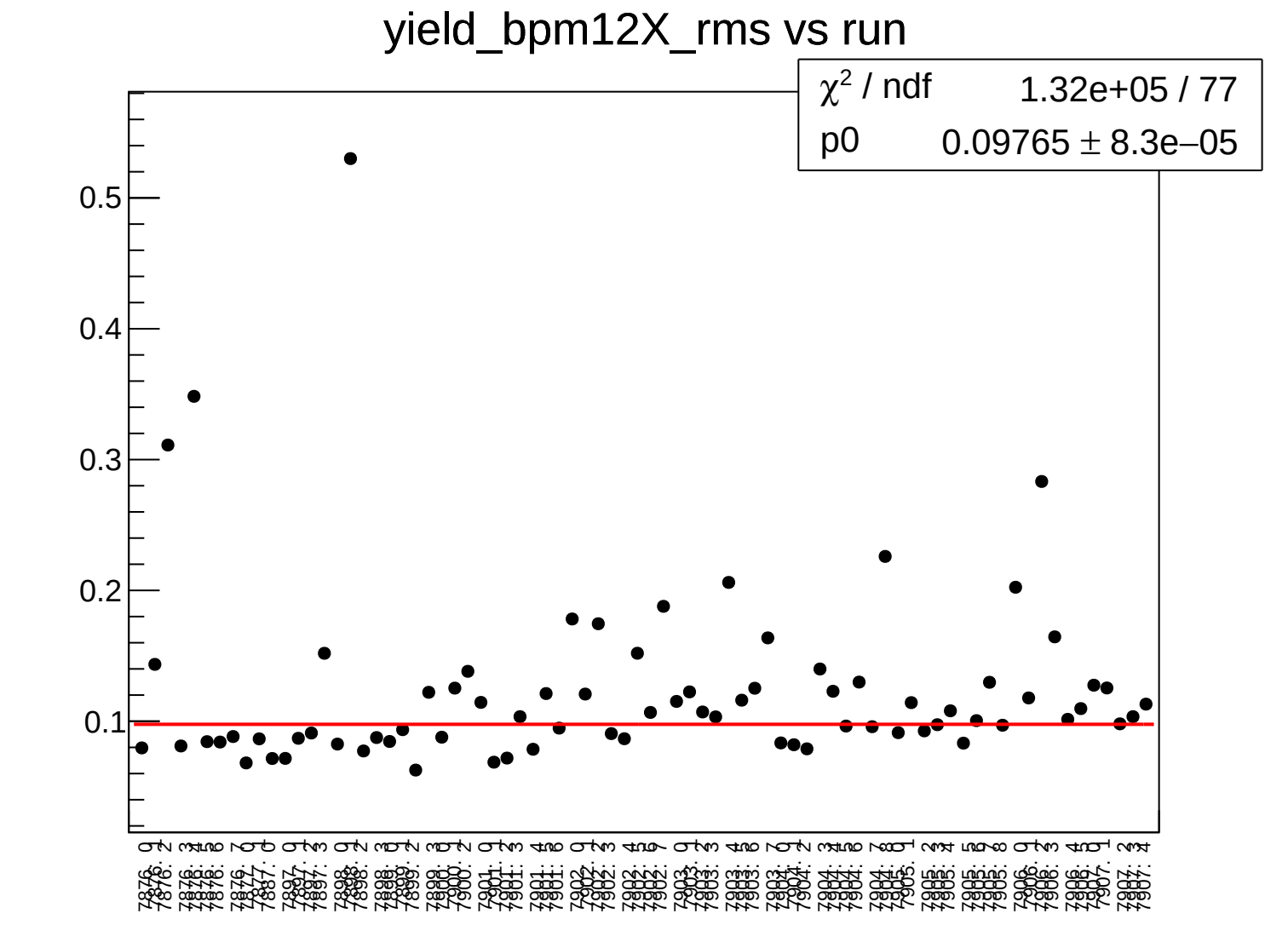

yield_bpm11Y_mean vs run
χ² / ndf 7.231e+08 / 77
p0 0.1604 ± 1.656e−05
pull
Entries 78
Mean −219.4
Std Dev 253.4

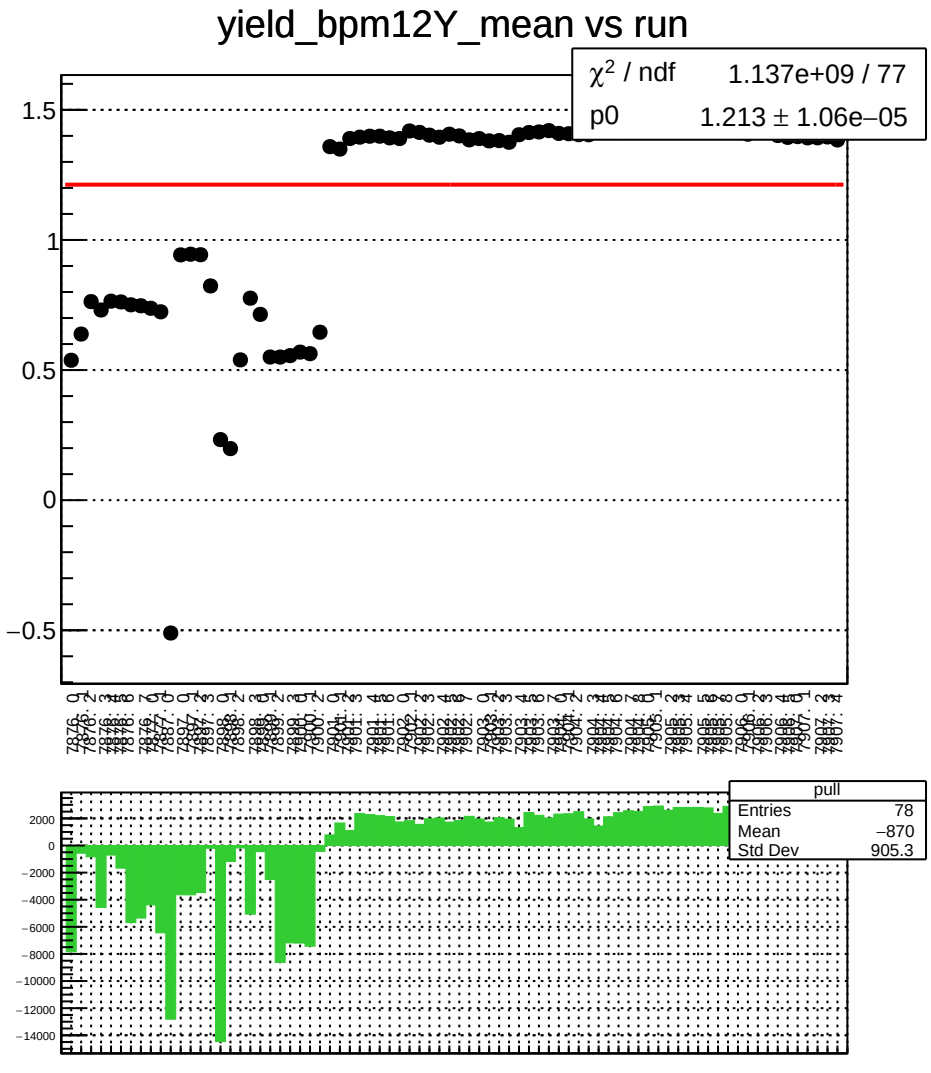

pull1D
Entries 78
Mean 0
Std Dev 0

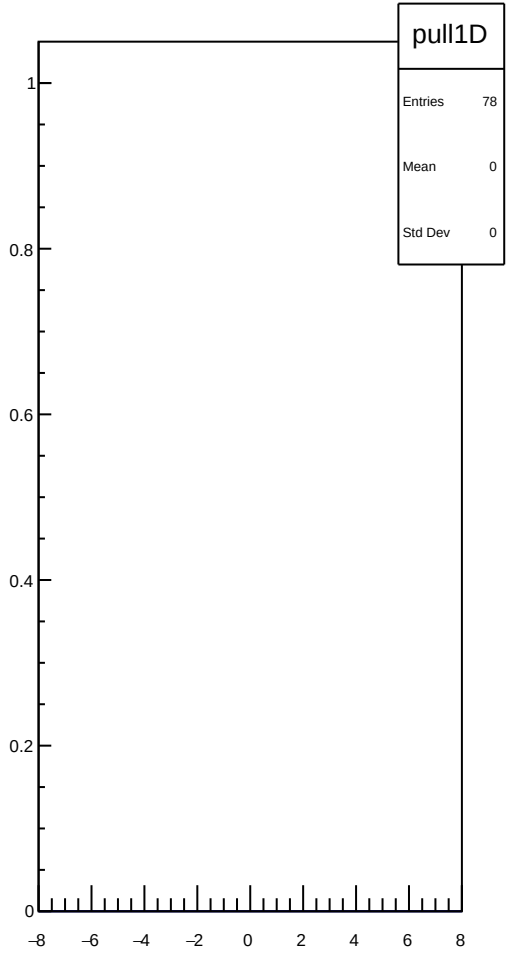

yield_bpm11Y_rms vs run
χ^2 / ndf 3.372e+05 / 77
p0 0.01272 ± 1.171e−05
0.5
0.4
0.3
0.2
0.1

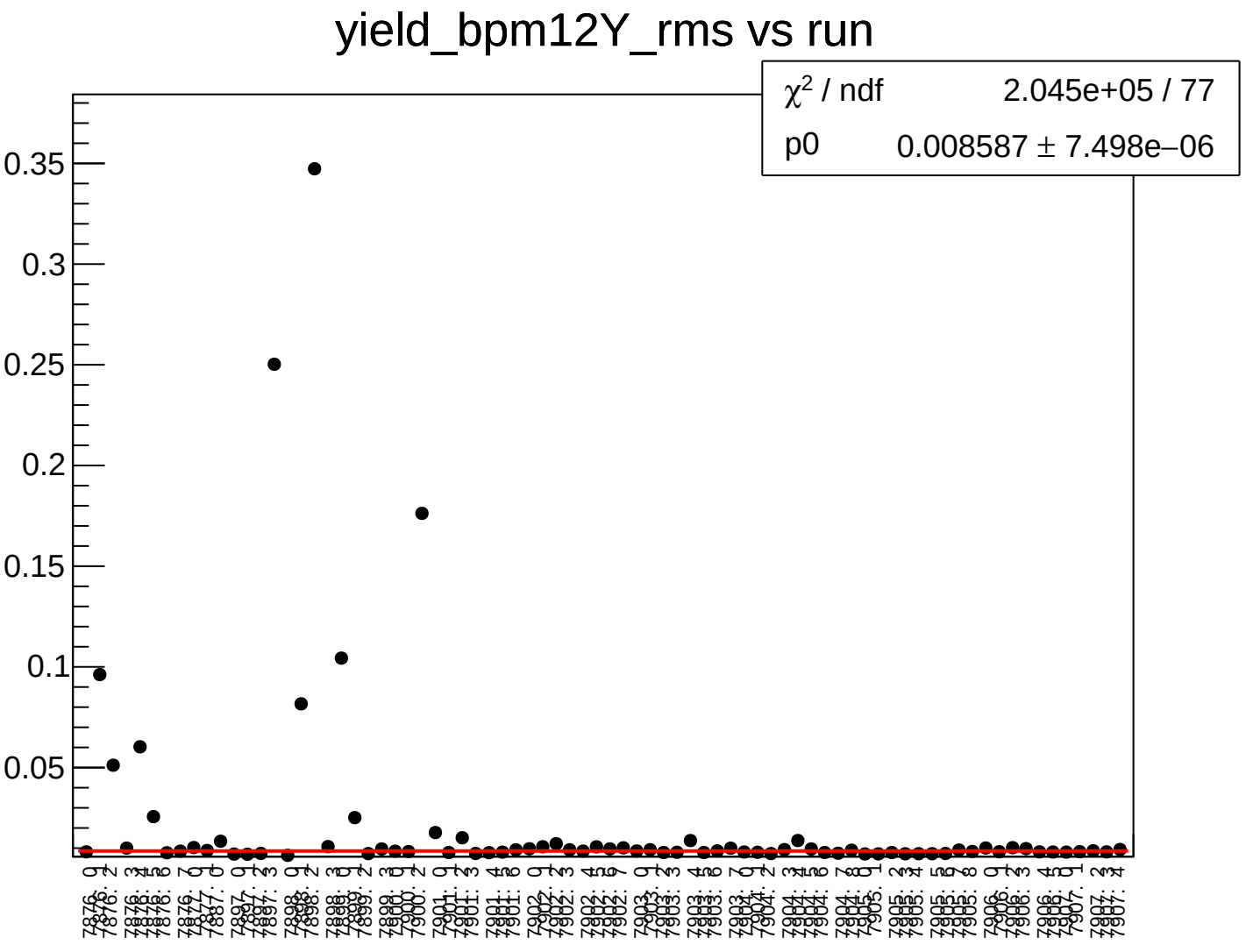

yield_bpm12X_mean vs run
χ² / ndf 1.065e+07 / 77
p0 −0.7278 ± 0.0001174
pull
Entries 78
Mean 199.1
Std Dev 165.6

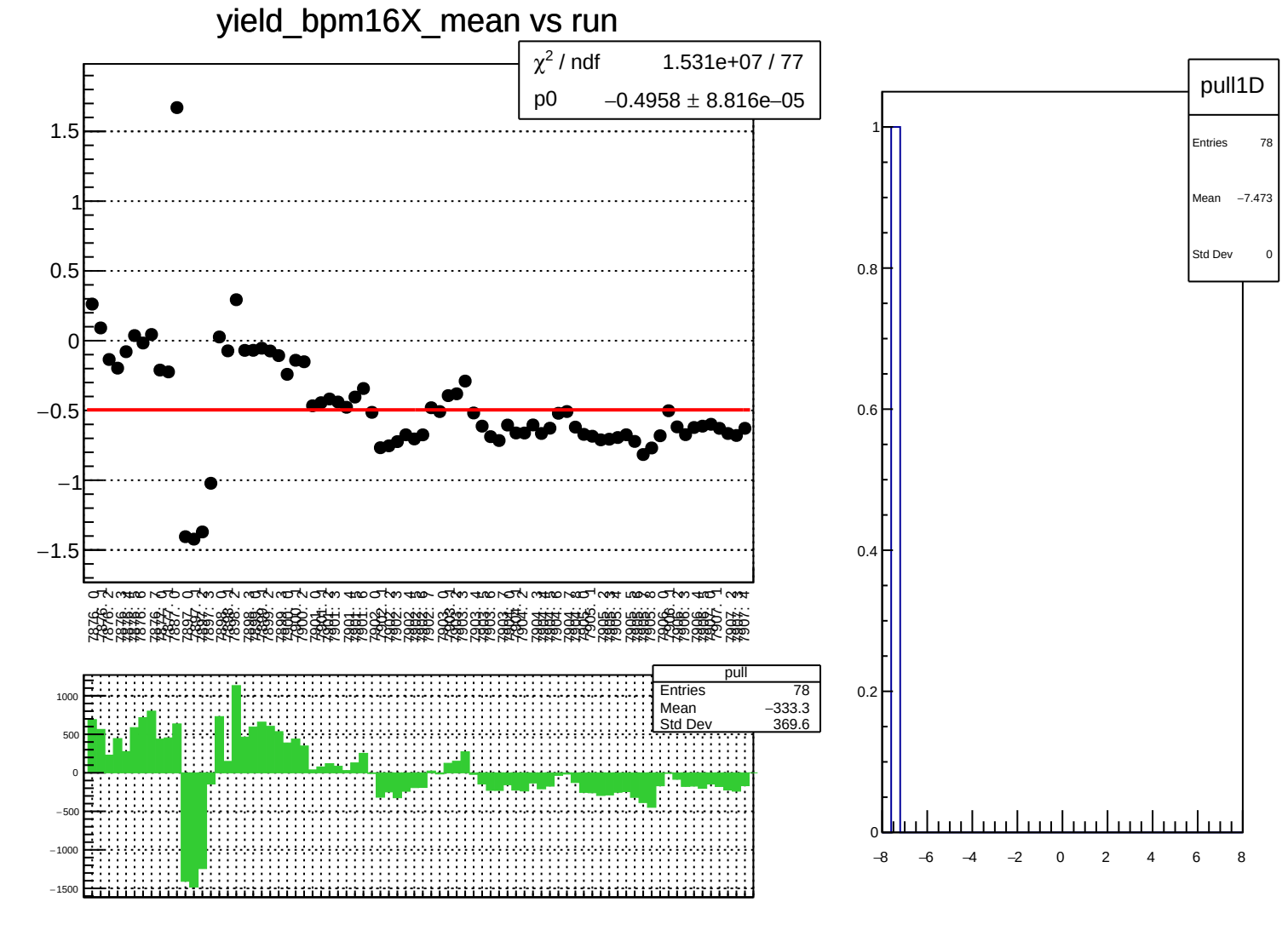

pull1D
Entries 78
Mean −2.256
Std Dev 5.277

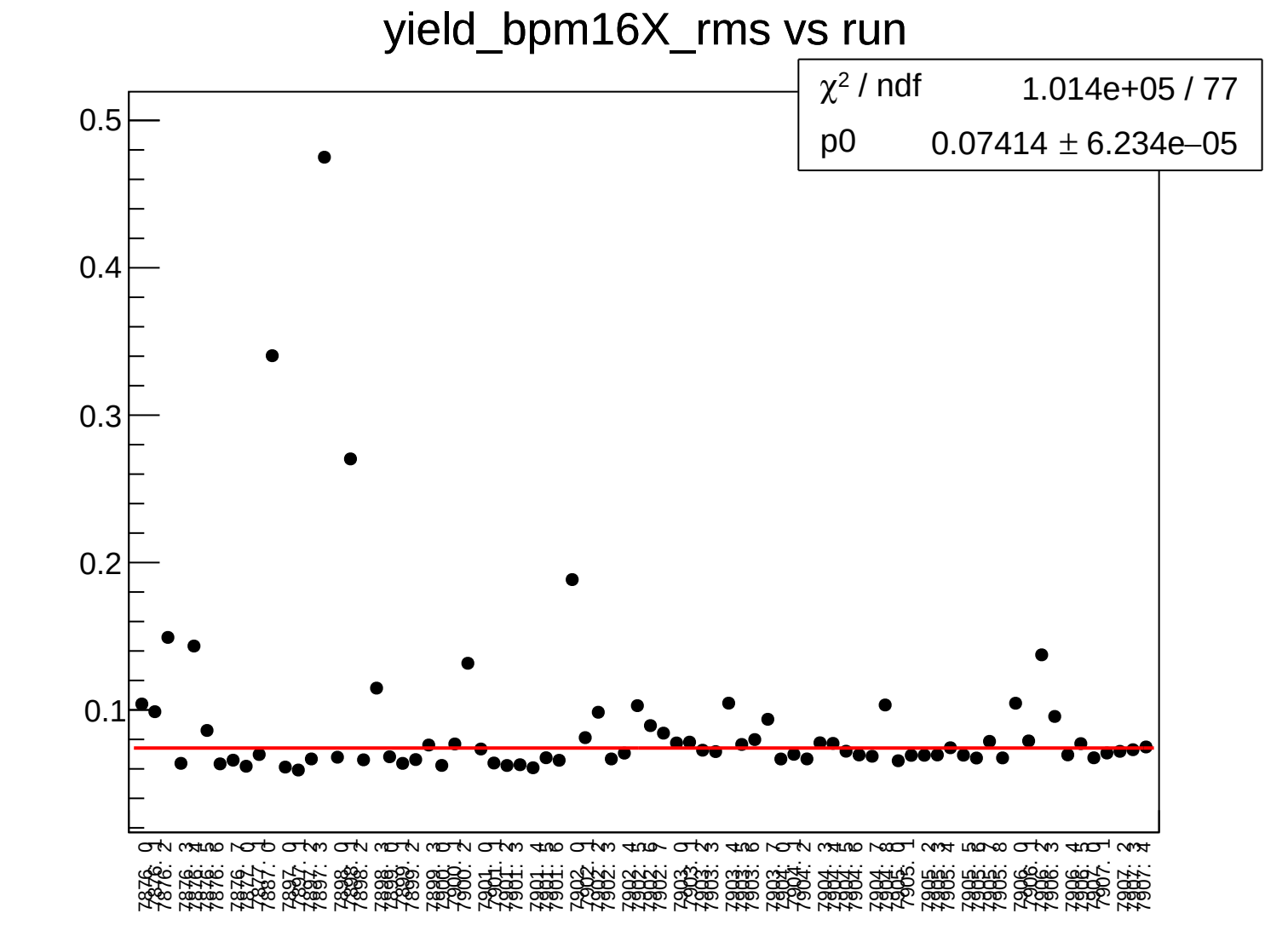

yield_bpm12X_rms vs run
χ^2 / ndf 1.32e+05 / 77
p0 0.09765 ± 8.3e−05
0.5
0.4
0.3
0.2
0.1

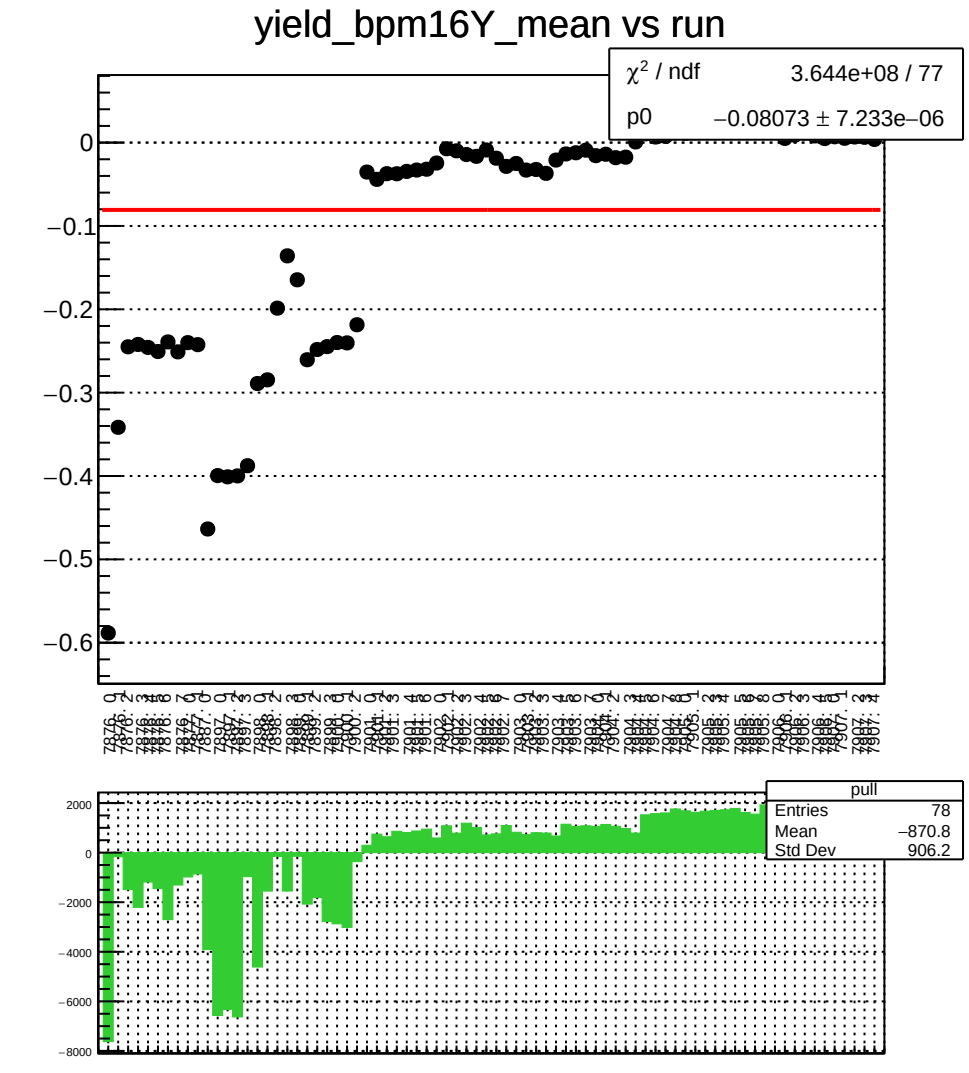

yield_bpm12Y_mean vs run
χ² / ndf 1.137e+09 / 77
p0 1.213 ± 1.06e−05
pull
Entries 78
Mean −870
Std Dev 905.3

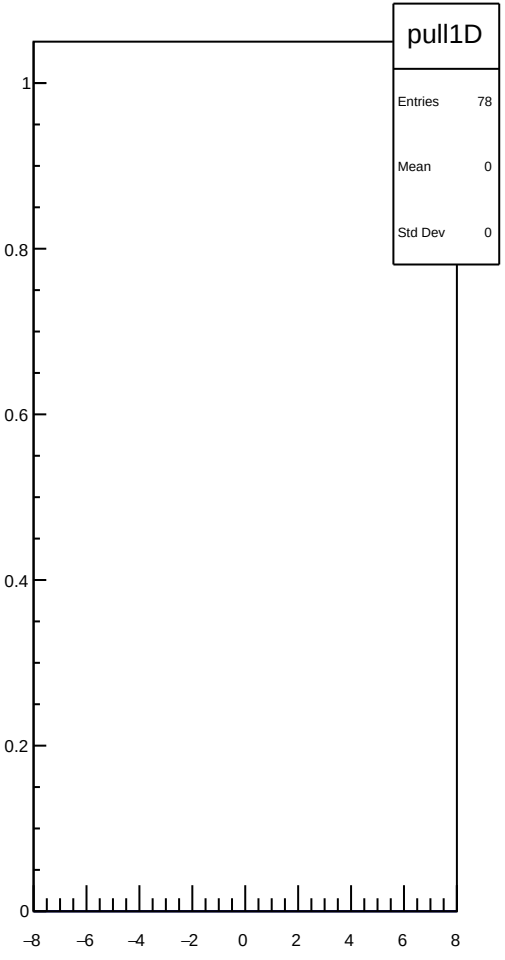

pull1D
Entries 78
Mean 0
Std Dev 0

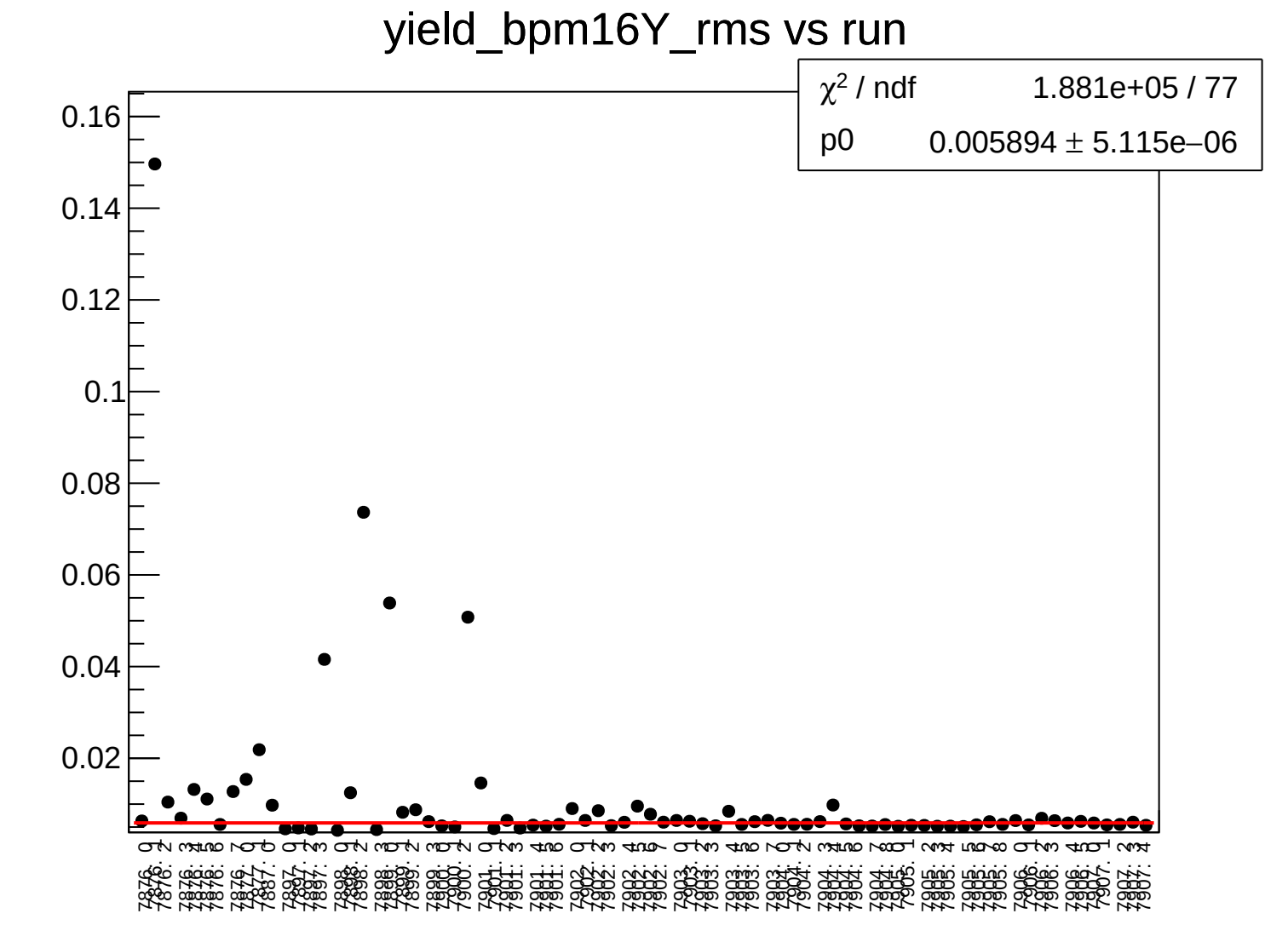

yield_bpm12Y_rms vs run
χ² / ndf 2.045e+05 / 77
p0 0.008587 ± 7.498e−06
0.35
0.3
0.25
0.2
0.15
0.1
0.05

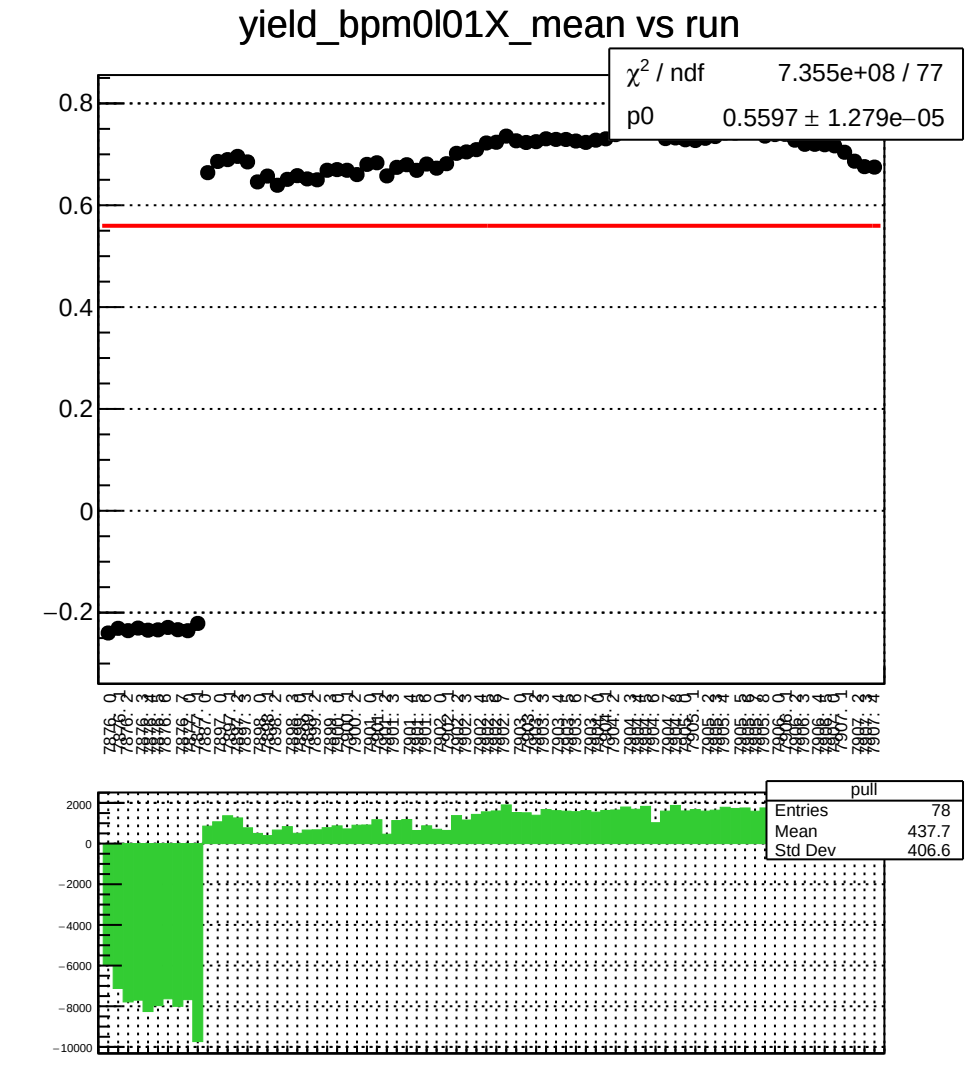

yield_bpm16X_mean vs run
χ² / ndf 1.531e+07 / 77
p0 −0.4958 ± 8.816e−05
pull
Entries 78
Mean −333.3
Std Dev 369.6
pull1D
Entries 78
Mean −7.473
Std Dev 0

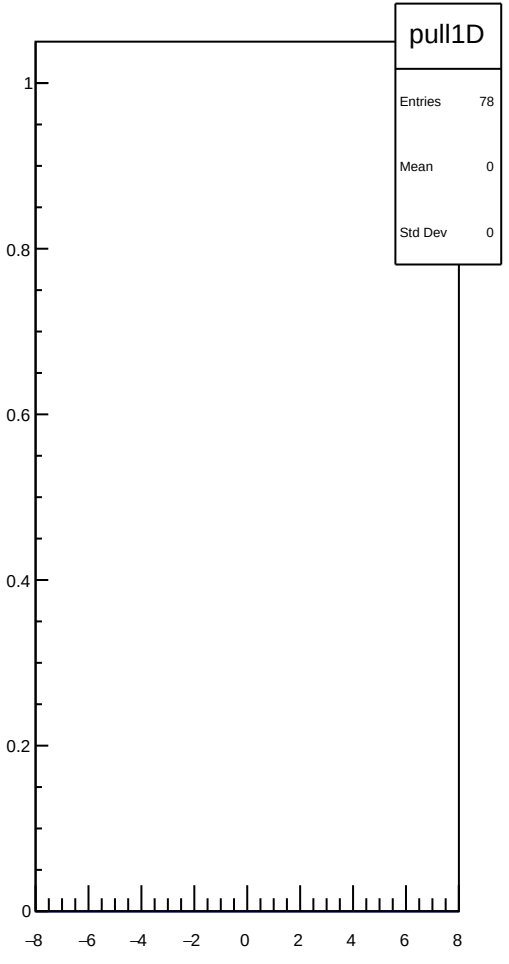

yield_bpm16X_rms vs run
χ² / ndf 1.014e+05 / 77
p0 0.07414 ± 6.234e–05
0.5
0.4
0.3
0.2
0.1

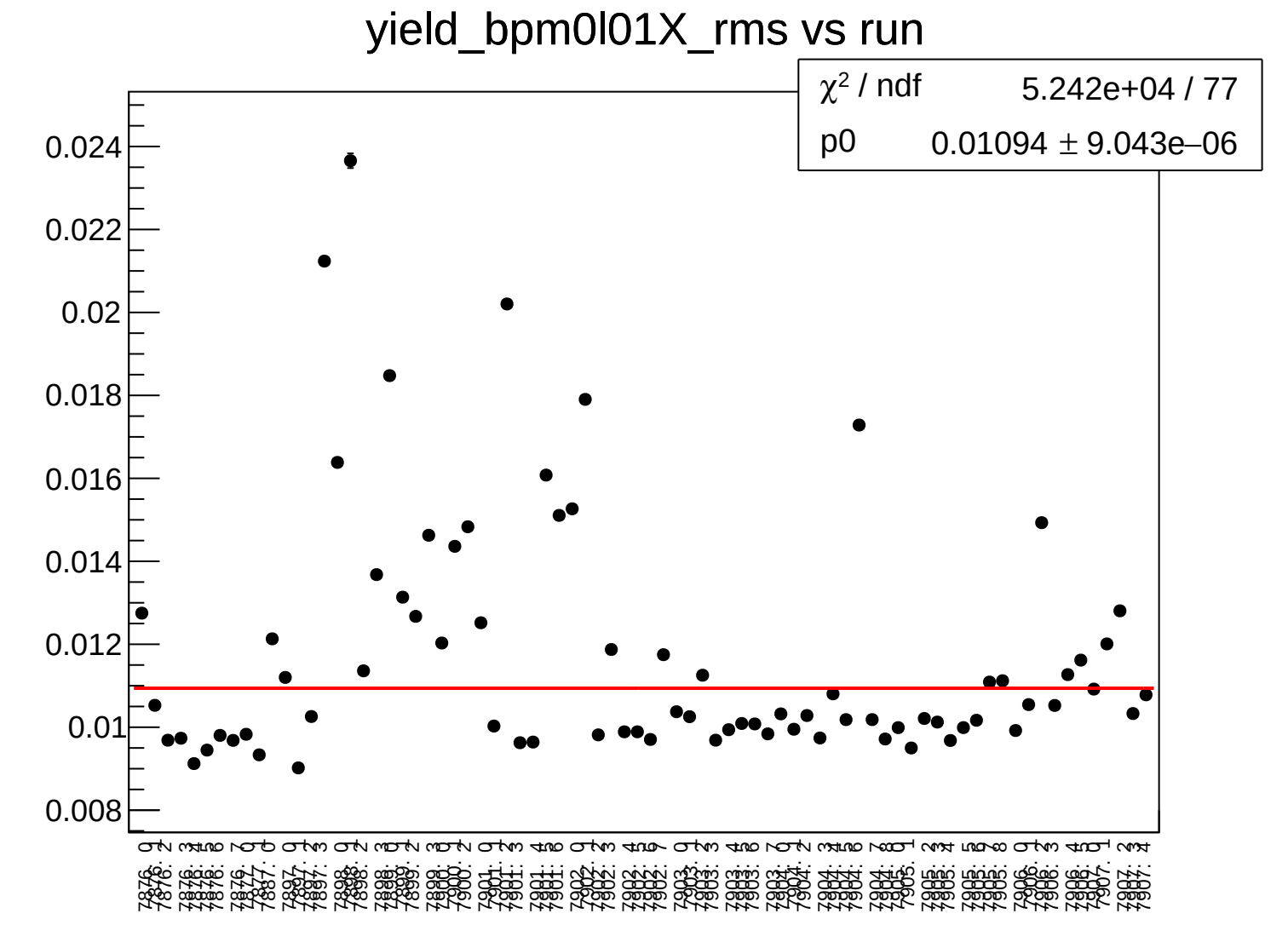

yield_bpm16Y_mean vs run
χ² / ndf 3.644e+08 / 77
p0 −0.08073 ± 7.233e−06
pull
Entries 78
Mean −870.8
Std Dev 906.2

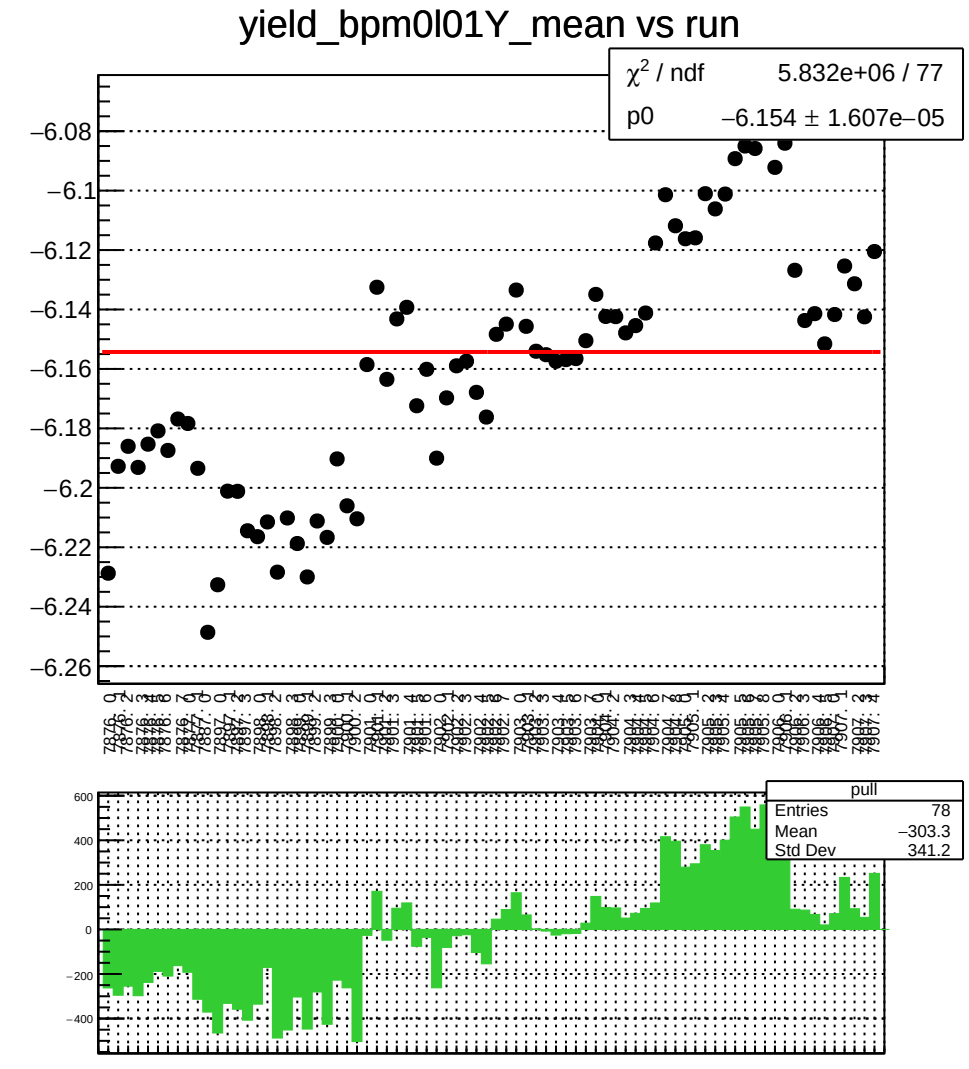

pull1D
Entries 78
Mean 0
Std Dev 0

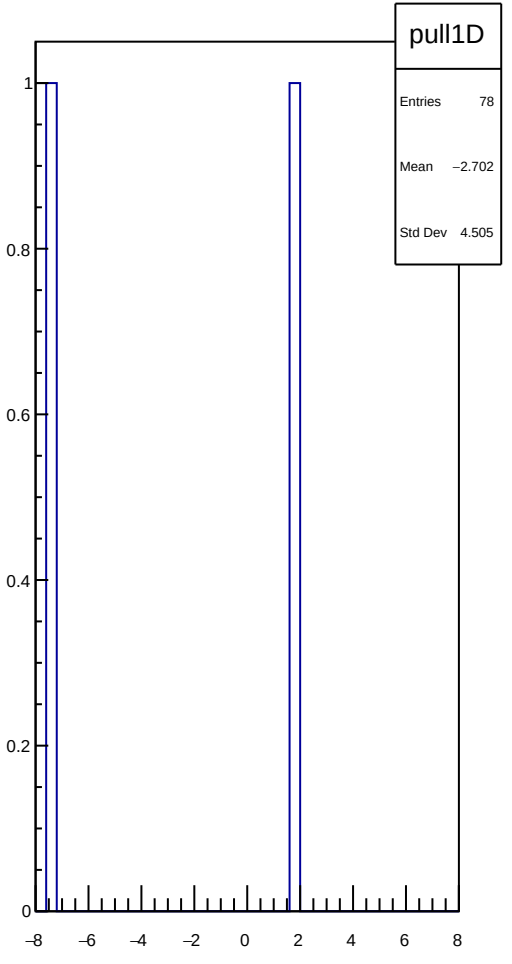

yield_bpm16Y_rms vs run
χ² / ndf 1.881e+05 / 77
p0 0.005894 ± 5.115e−06
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

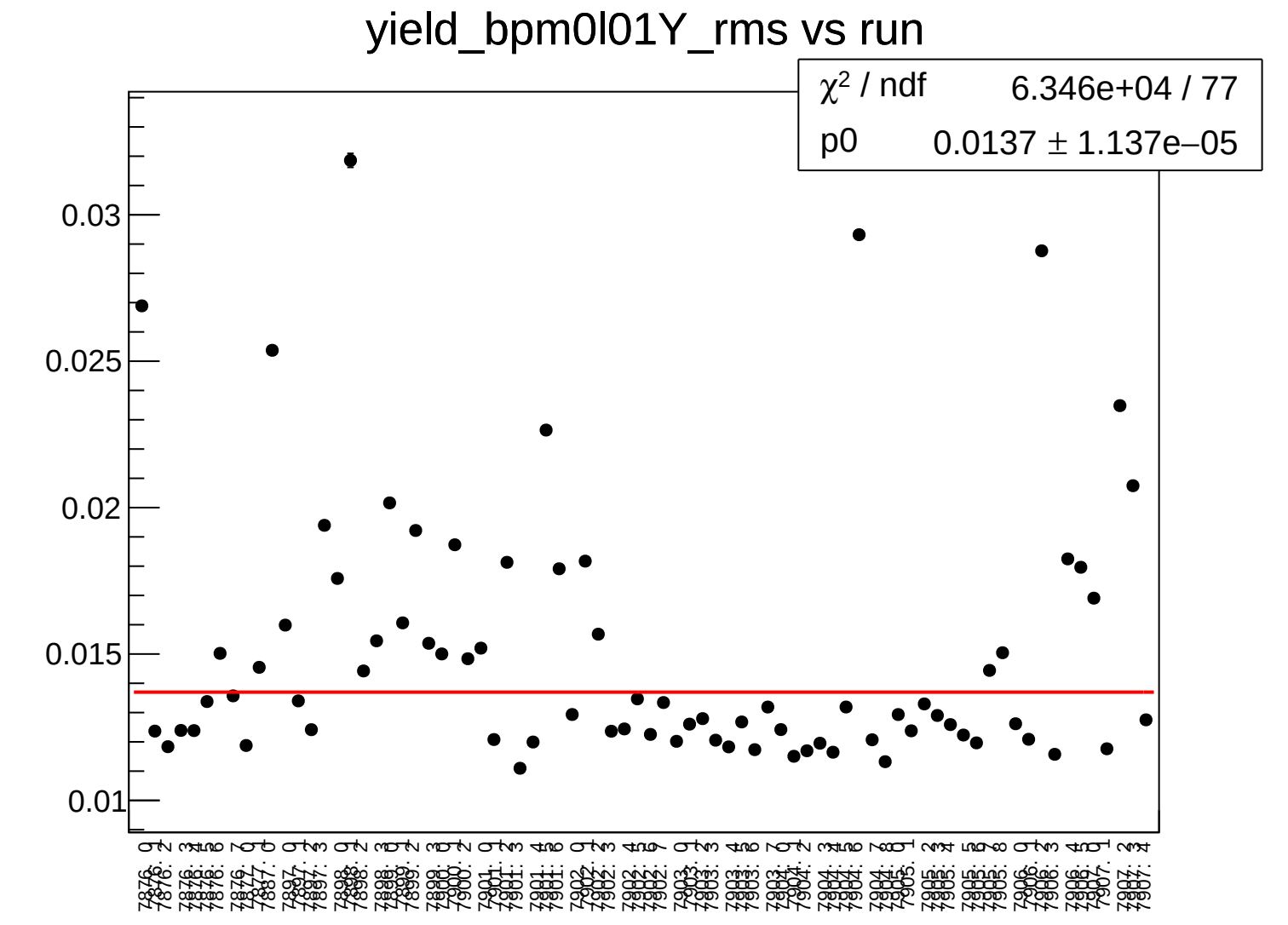

yield_bpm0l01X_mean vs run
χ² / ndf 7.355e+08 / 77
p0 0.5597 ± 1.279e−05
pull
Entries 78
Mean 437.7
Std Dev 406.6

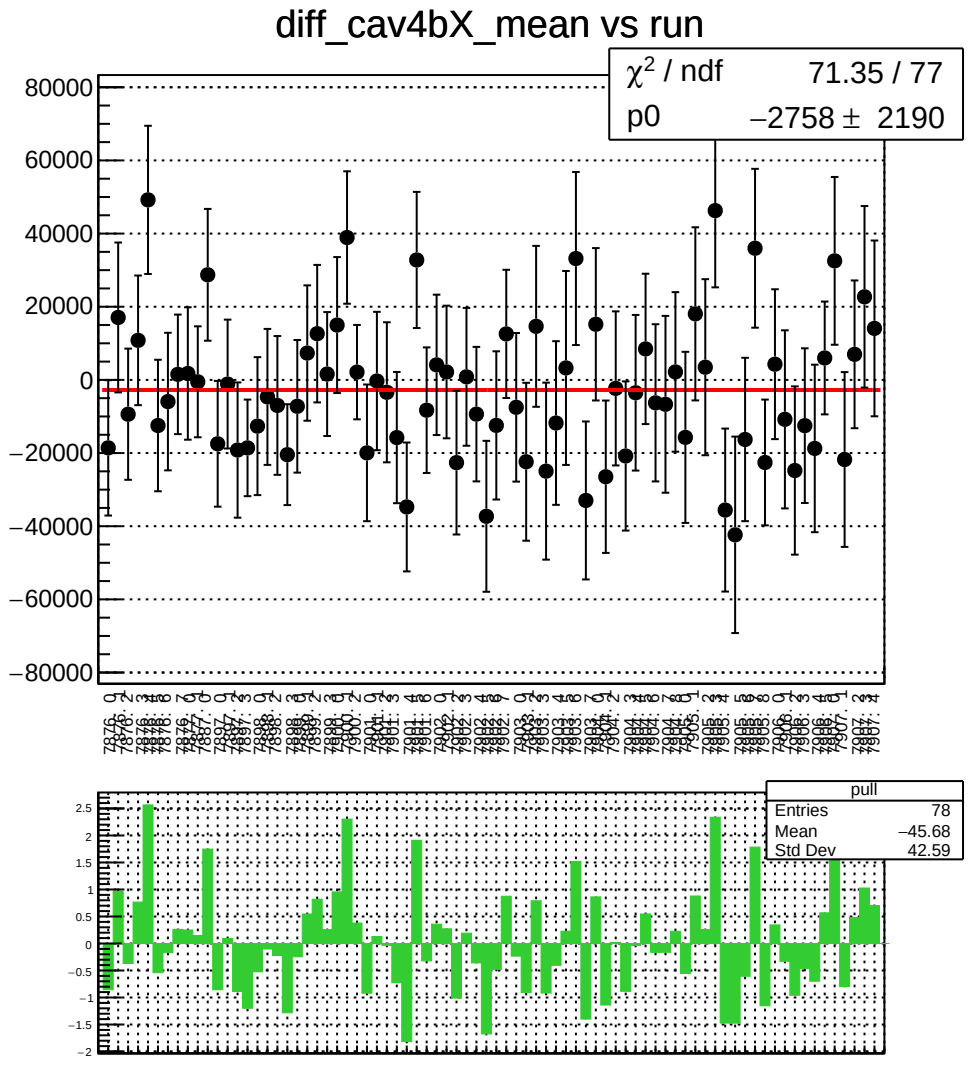

pull1D
Entries 78
Mean 0
Std Dev 0

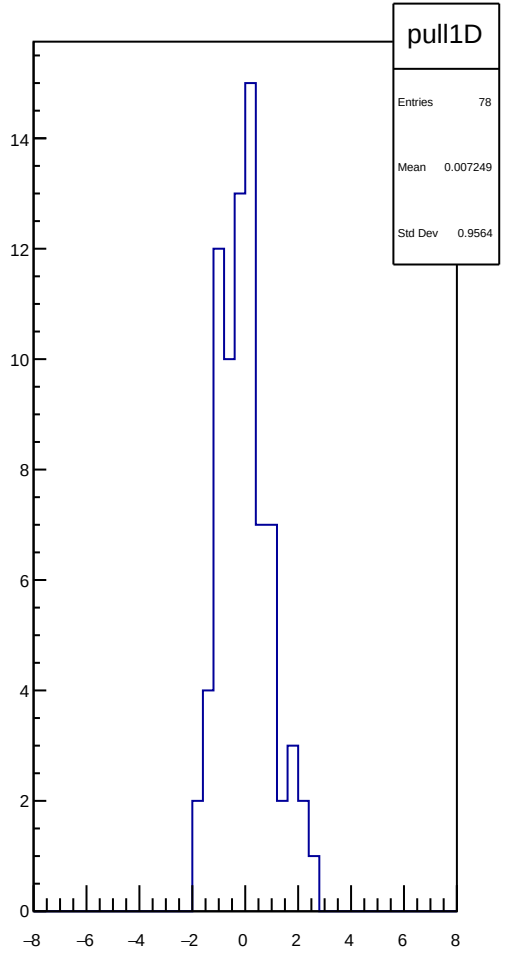

yield_bpm0l01X_rms vs run
χ² / ndf 5.242e+04 / 77
p0 0.01094 ± 9.043e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

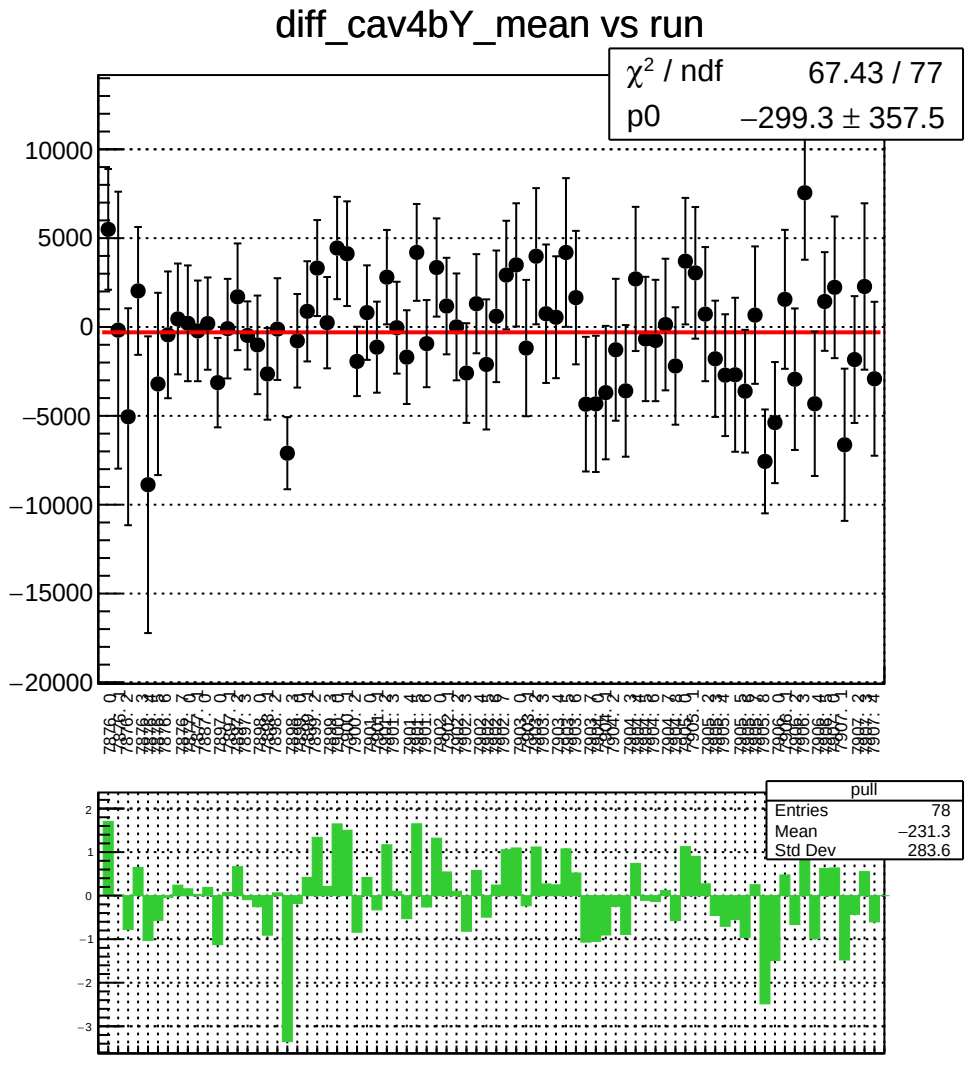

yield_bpm0l01Y_mean vs run
χ² / ndf 5.832e+06 / 77
p0 −6.154 ± 1.607e−05
−6.08
−6.1
−6.12
−6.14
−6.16
−6.18
−6.2
−6.22
−6.24
−6.26
pull
Entries 78
Mean −303.3
Std Dev 341.2
600
400
200
0
−200
−400

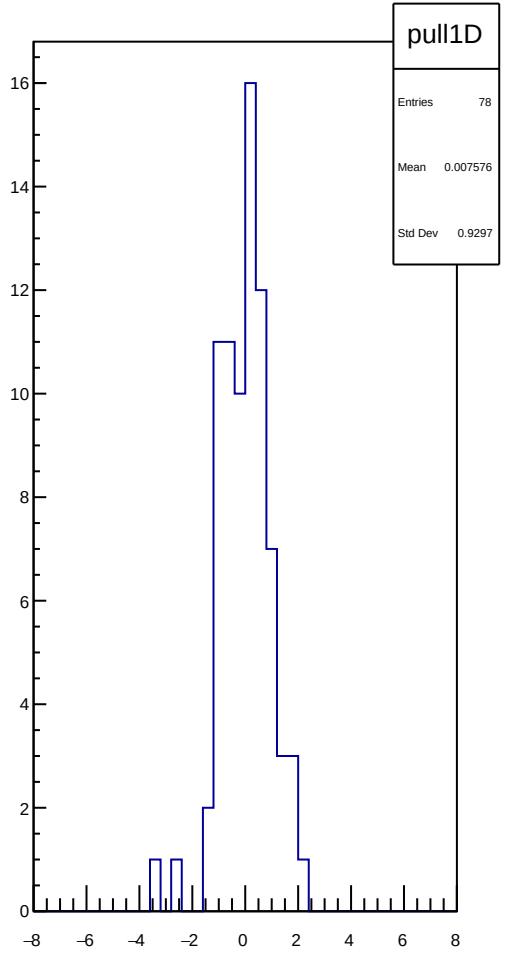

pull1D
Entries 78
Mean −2.702
Std Dev 4.505
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

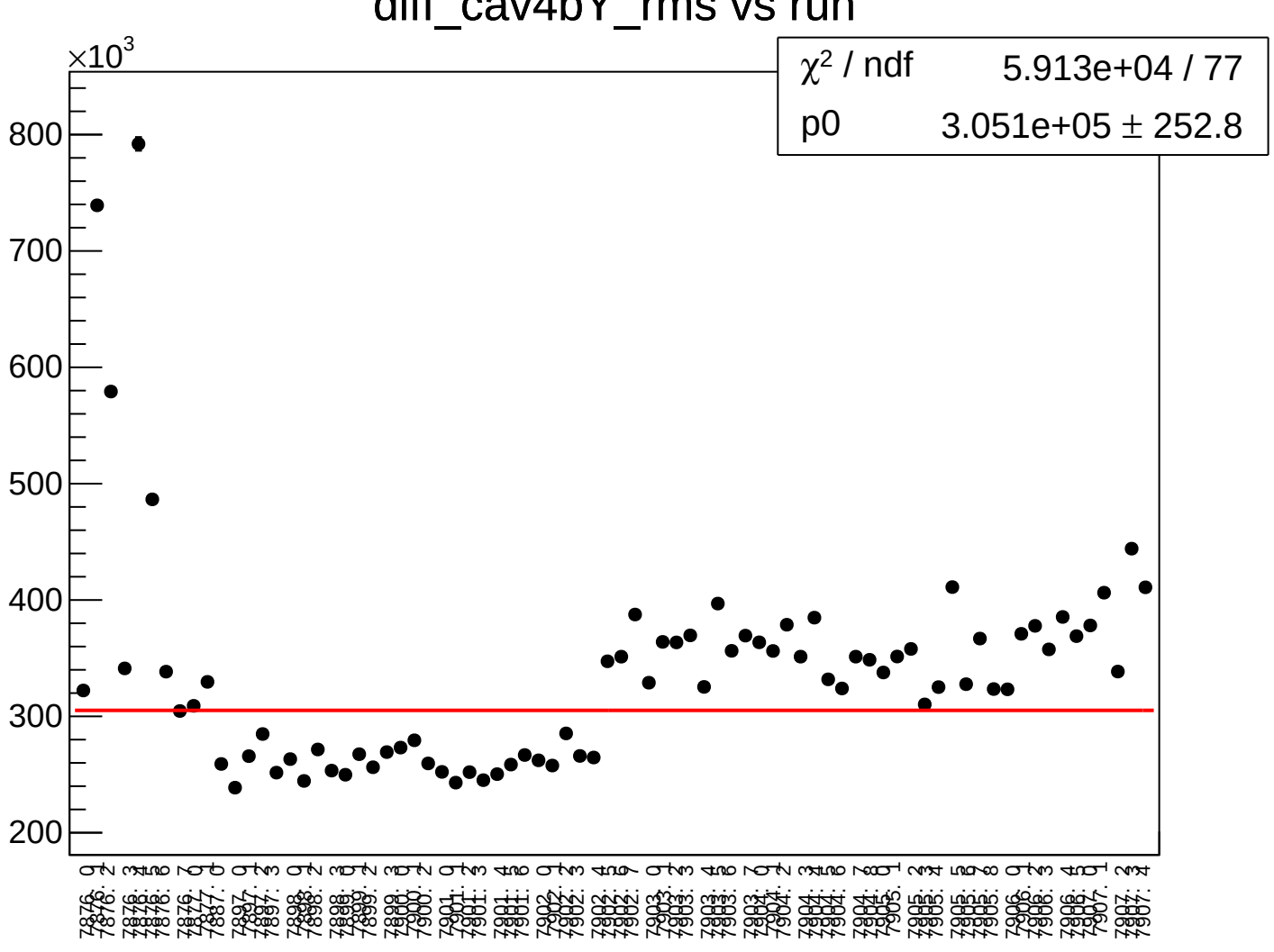

yield_bpm0l01Y_rms vs run
χ² / ndf 6.346e+04 / 77
p0 0.0137 ± 1.137e−05
0.03
0.025
0.02
0.015
0.01

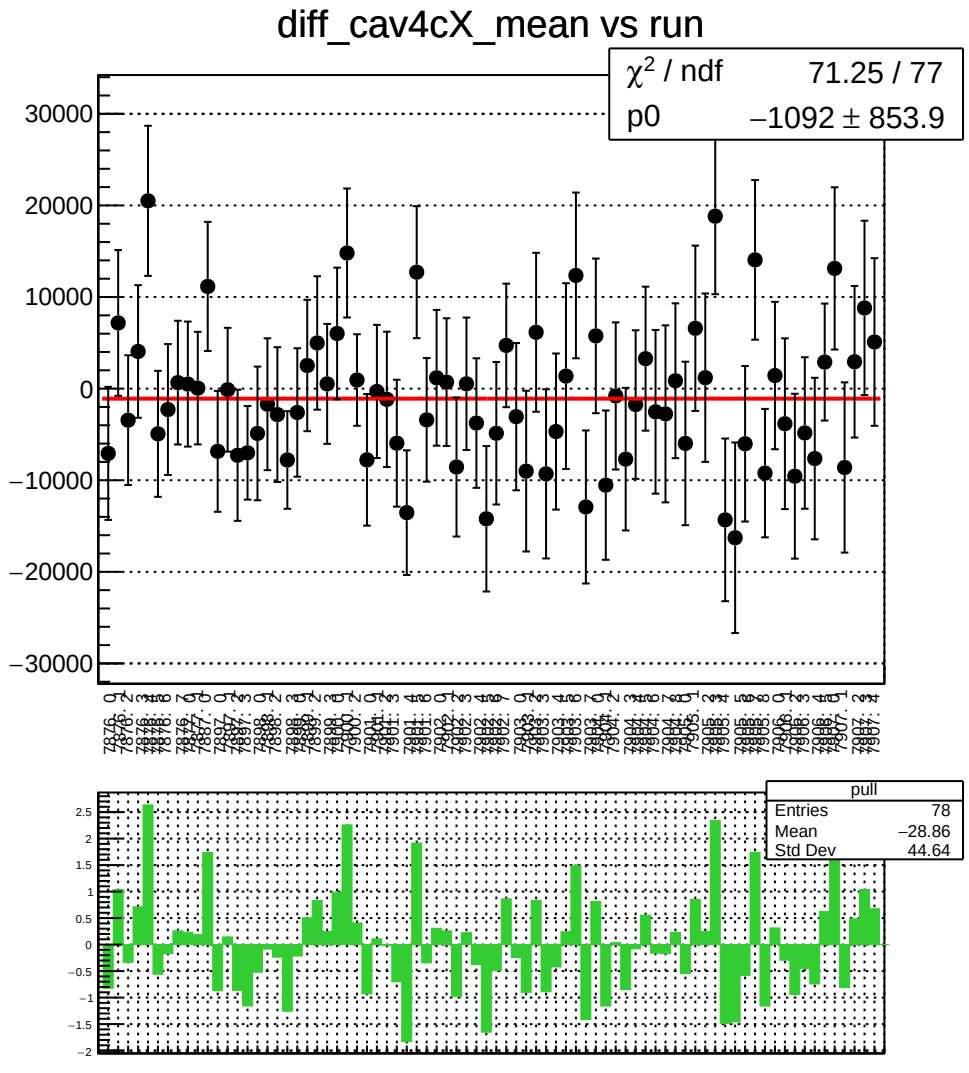

diff_cav4bX_mean vs run
χ² / ndf 71.35 / 77
p0 −2758 ± 2190
pull
Entries 78
Mean −45.68
Std Dev 42.59

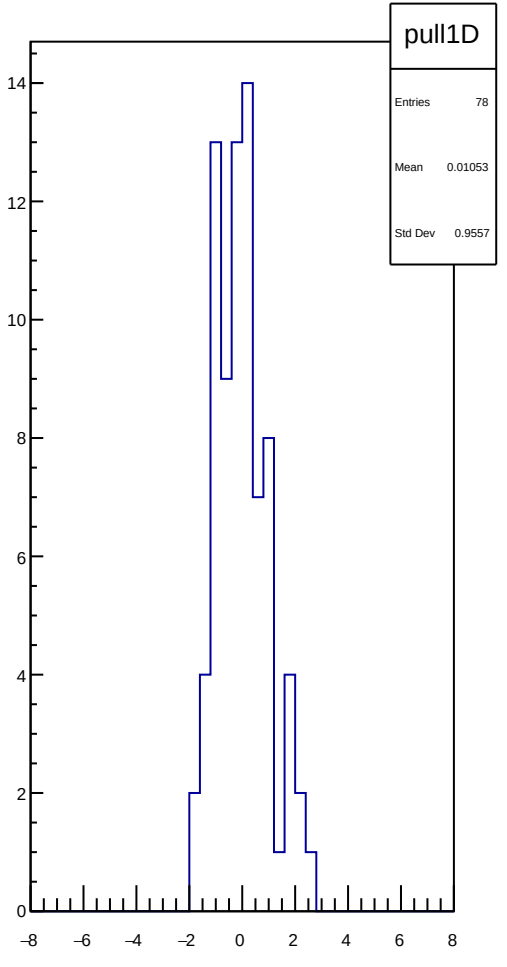

pull1D
Entries 78
Mean 0.007249
Std Dev 0.9564

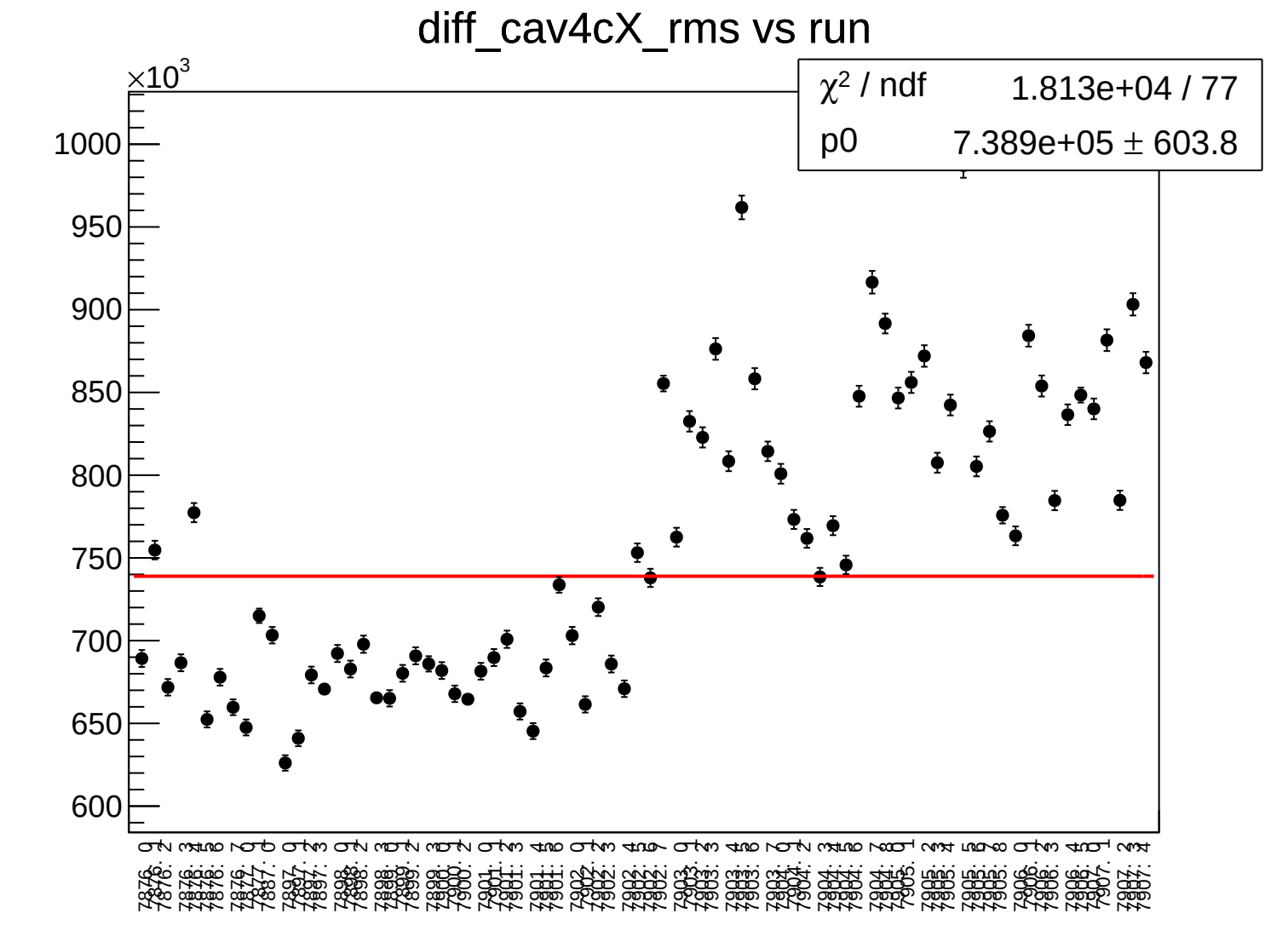

diff_cav4bY_mean vs run
χ² / ndf 67.43 / 77
p0 −299.3 ± 357.5
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 78
Mean −231.3
Std Dev 283.6
2
1
0
−1
−2
−3

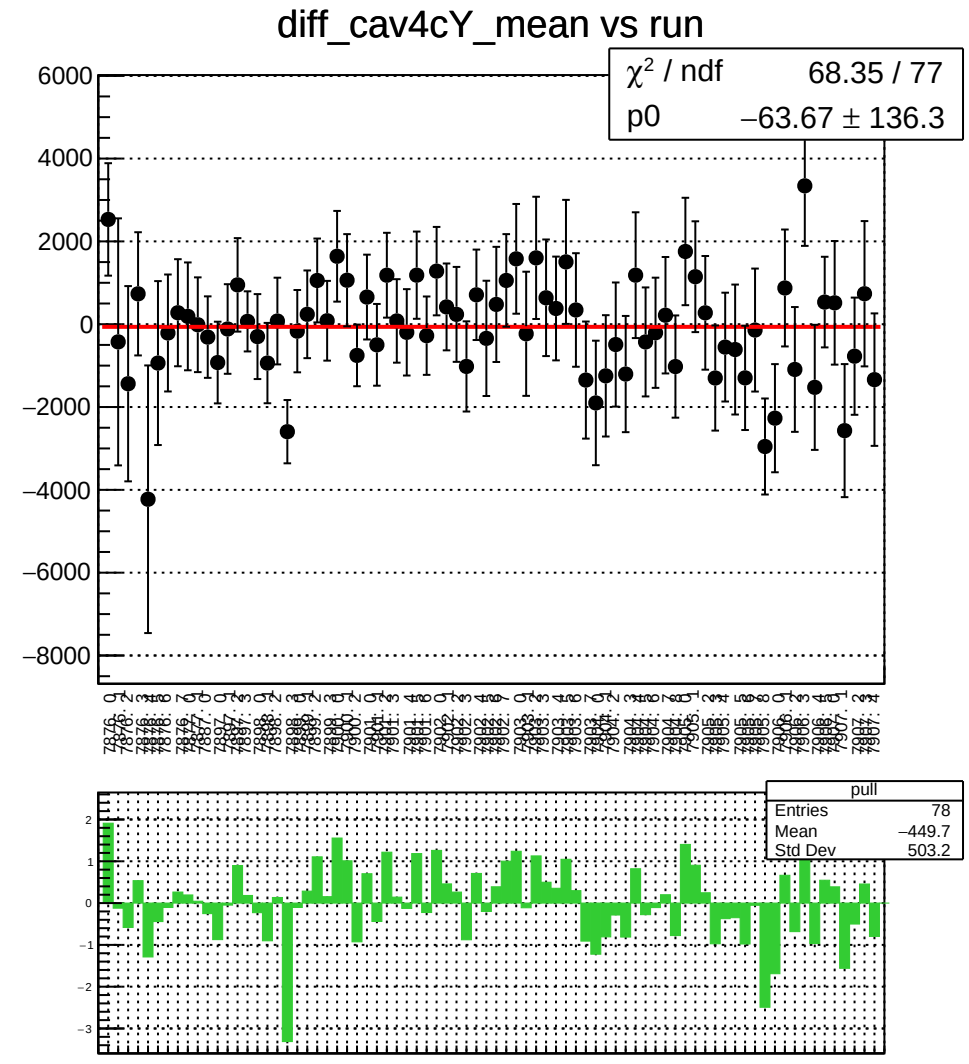

pull1D
Entries 78
Mean 0.007576
Std Dev 0.9297
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

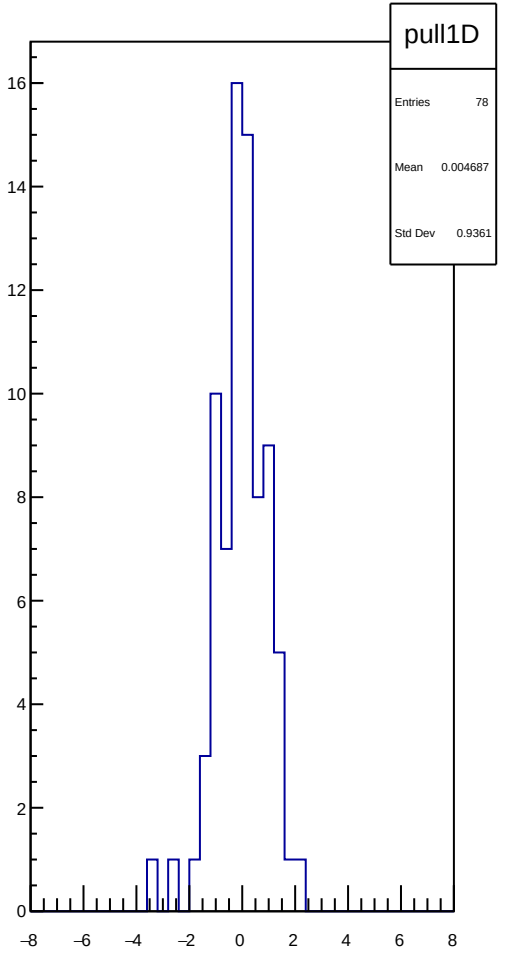

diff_cav4bY_rms vs run
×10^3
800
700
600
500
400
300
200
χ² / ndf 5.913e+04 / 77
p0 3.051e+05 ± 252.8

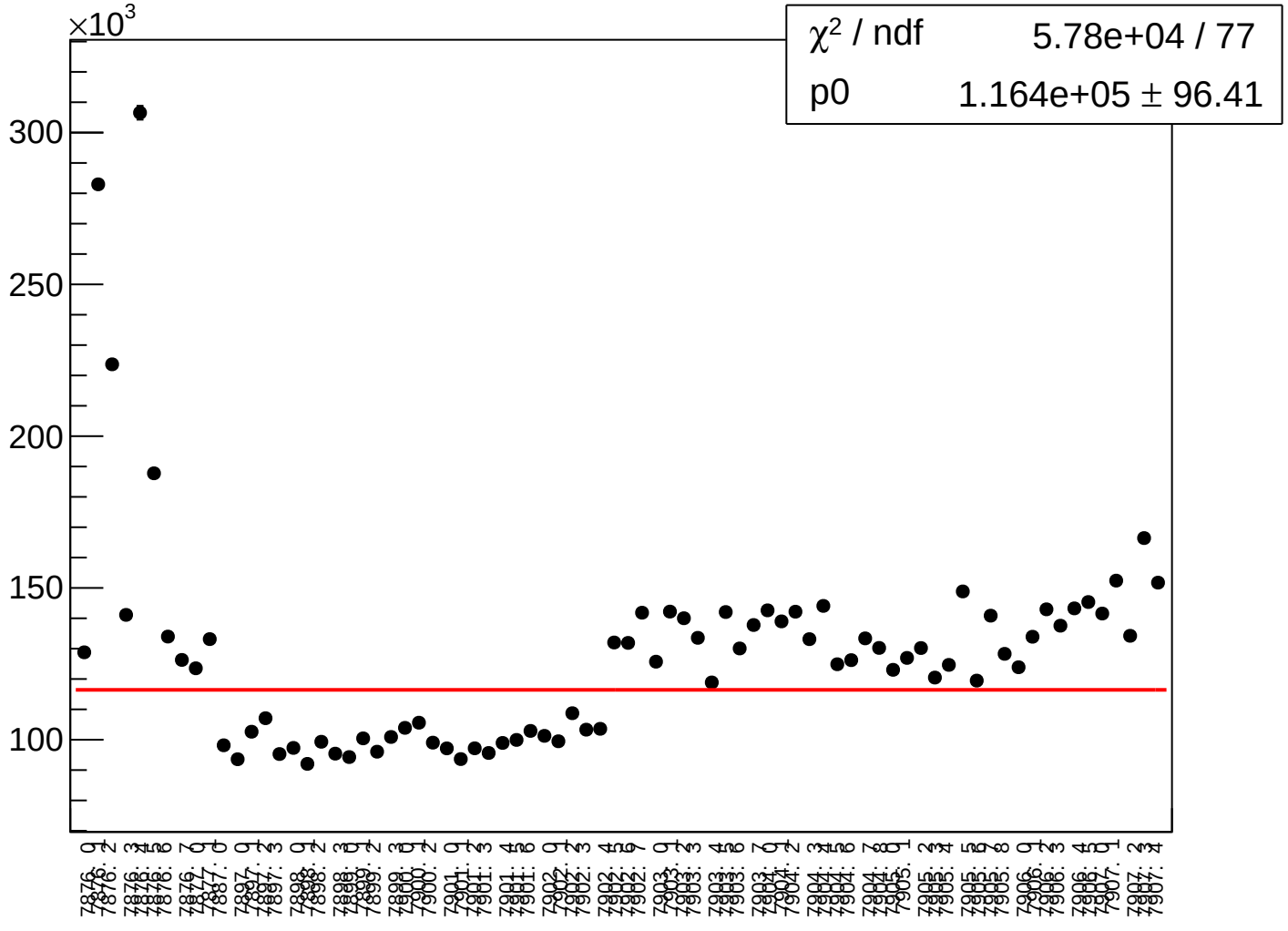

diff_cav4cX_mean vs run
χ² / ndf 71.25 / 77
p0 −1092 ± 853.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean −28.86
Std Dev 44.64
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

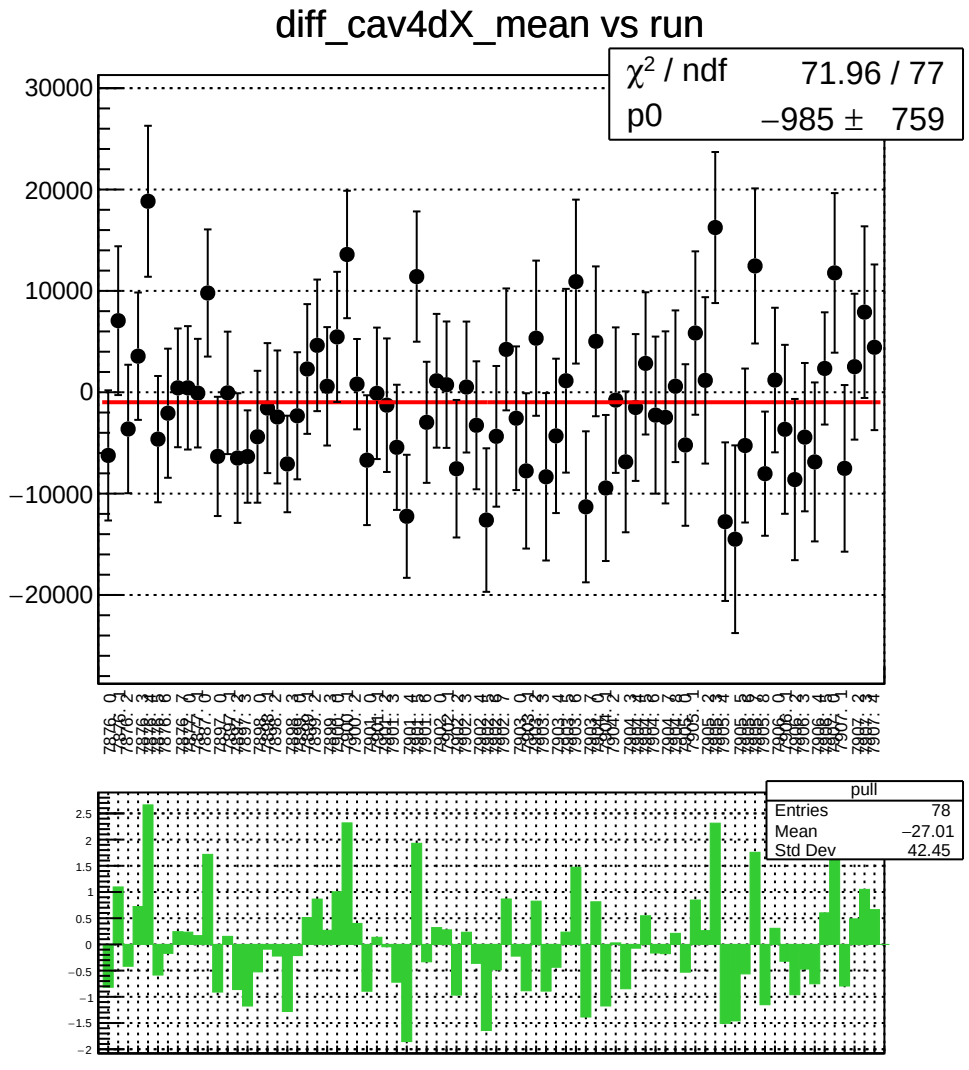

pull1D
Entries 78
Mean 0.01053
Std Dev 0.9557
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

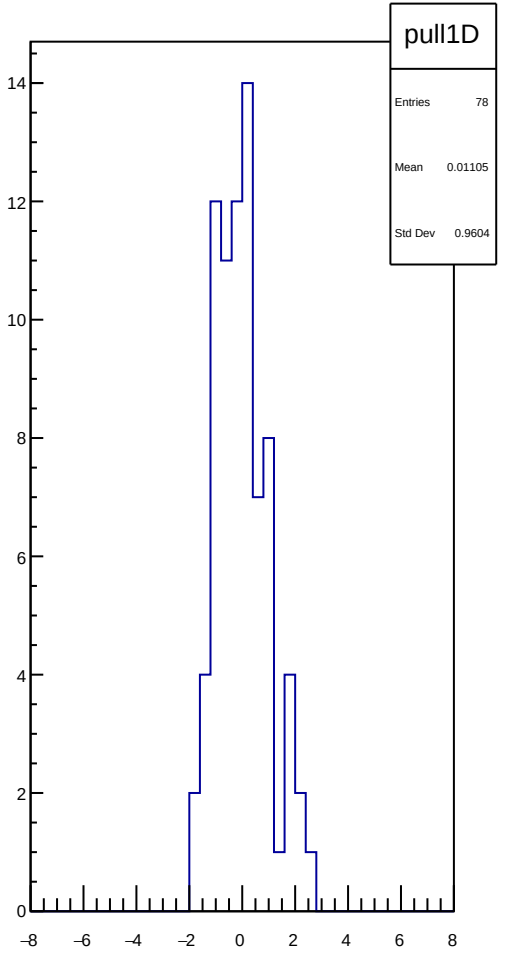

diff_cav4cX_rms vs run
×10^3
χ² / ndf 1.813e+04 / 77
p0 7.389e+05 ± 603.8
1000
950
900
850
800
750
700
650
600

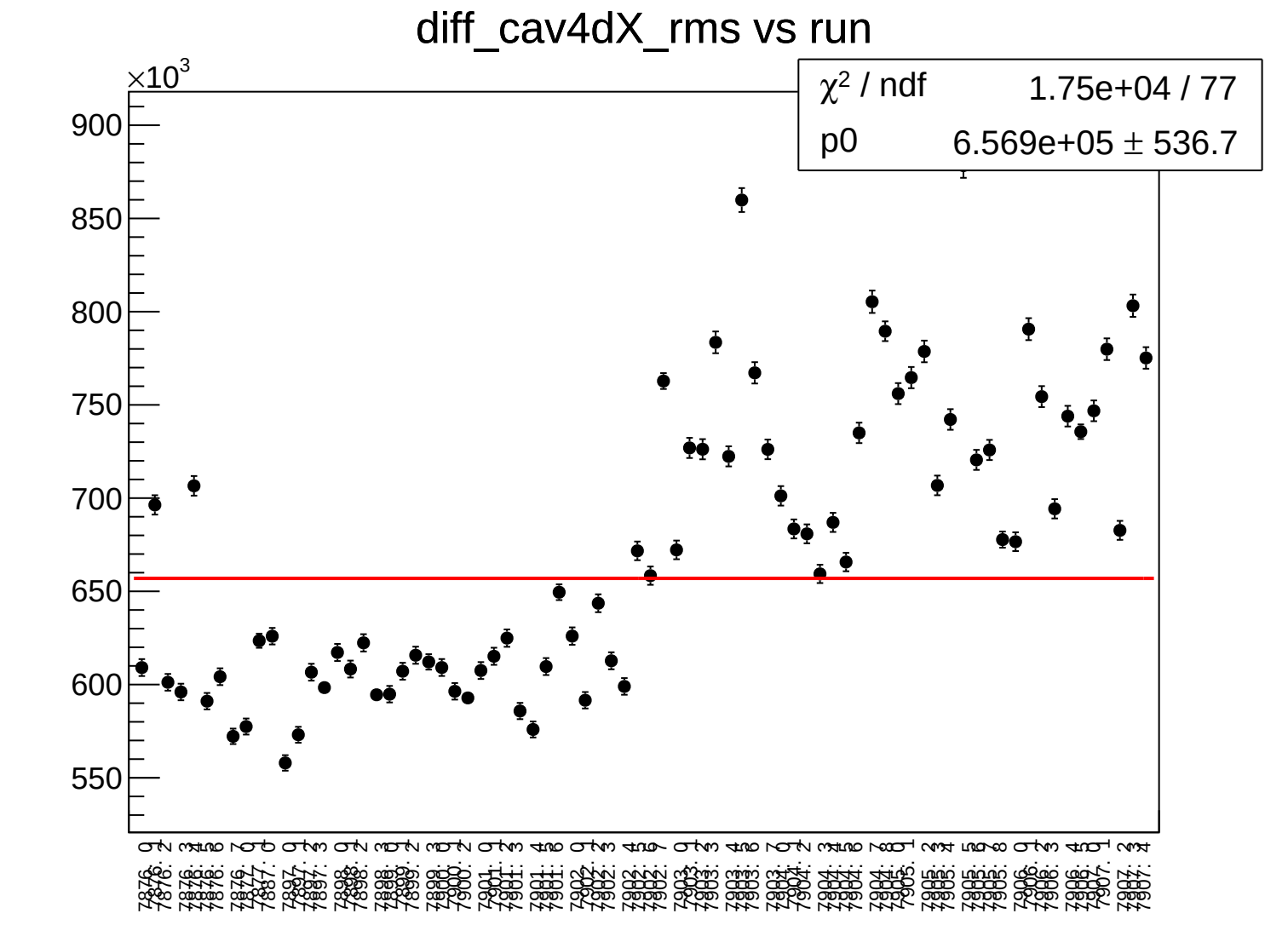

diff_cav4cY_mean vs run
χ^2 / ndf 68.35 / 77
p0 −63.67 ± 136.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 78
Mean −449.7
Std Dev 503.2
2
1
0
−1
−2
−3

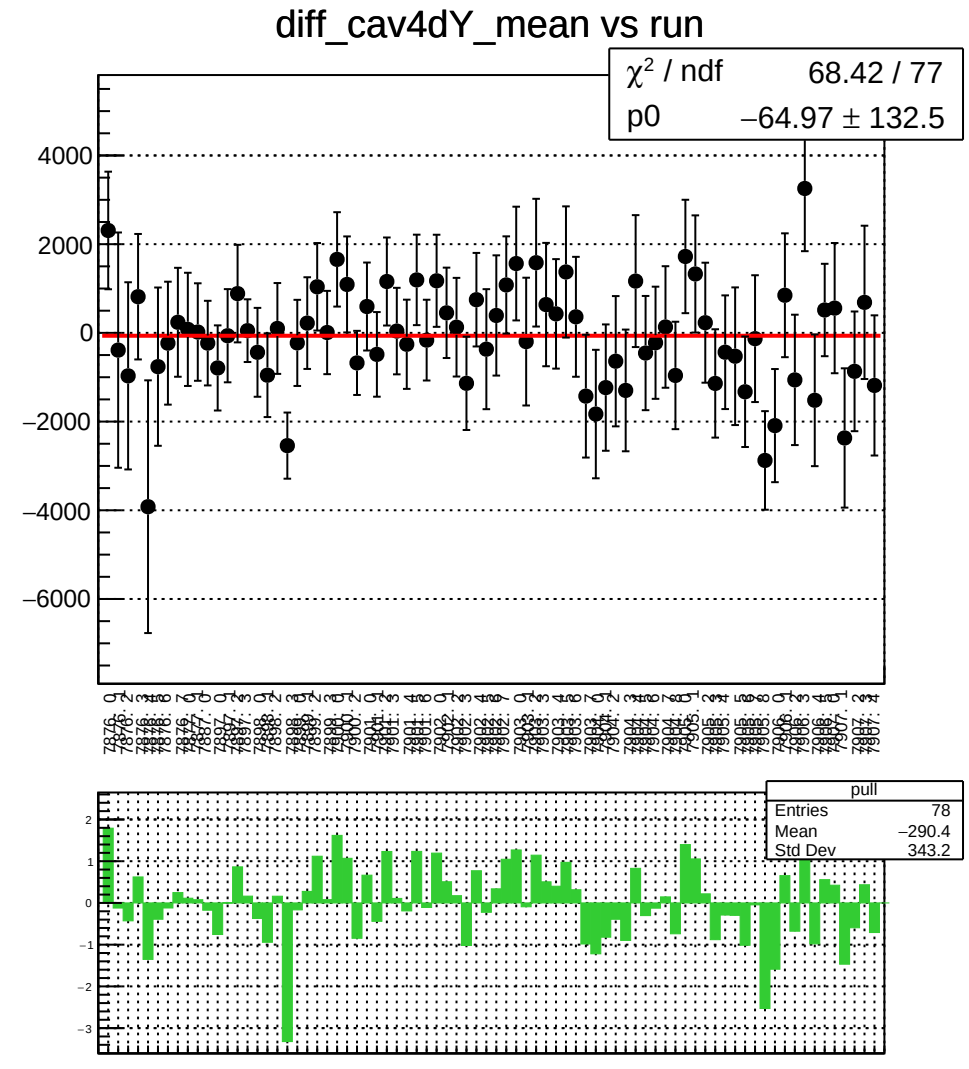

pull1D
Entries 78
Mean 0.004687
Std Dev 0.9361
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

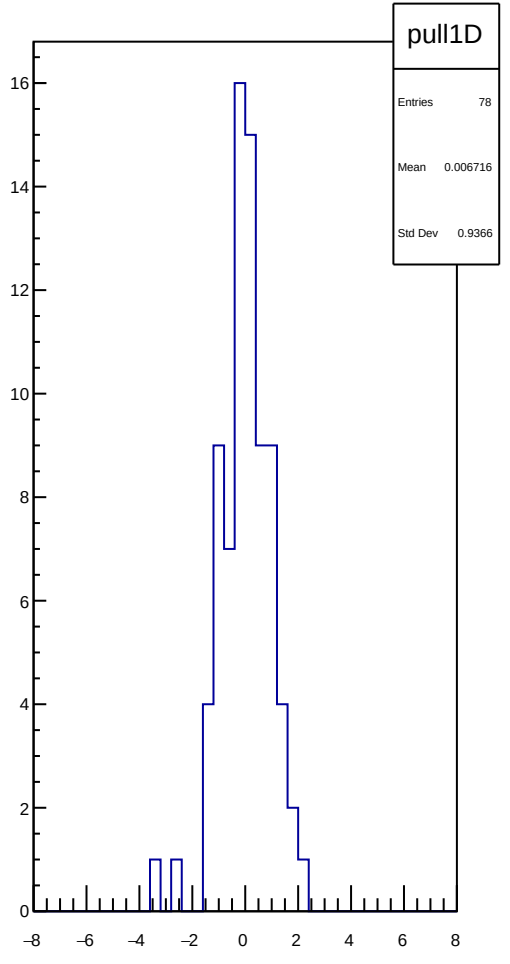

diff_cav4cY_rms vs run
×10^3
χ² / ndf 5.78e+04 / 77
p0 1.164e+05 ± 96.41
300
250
200
150
100

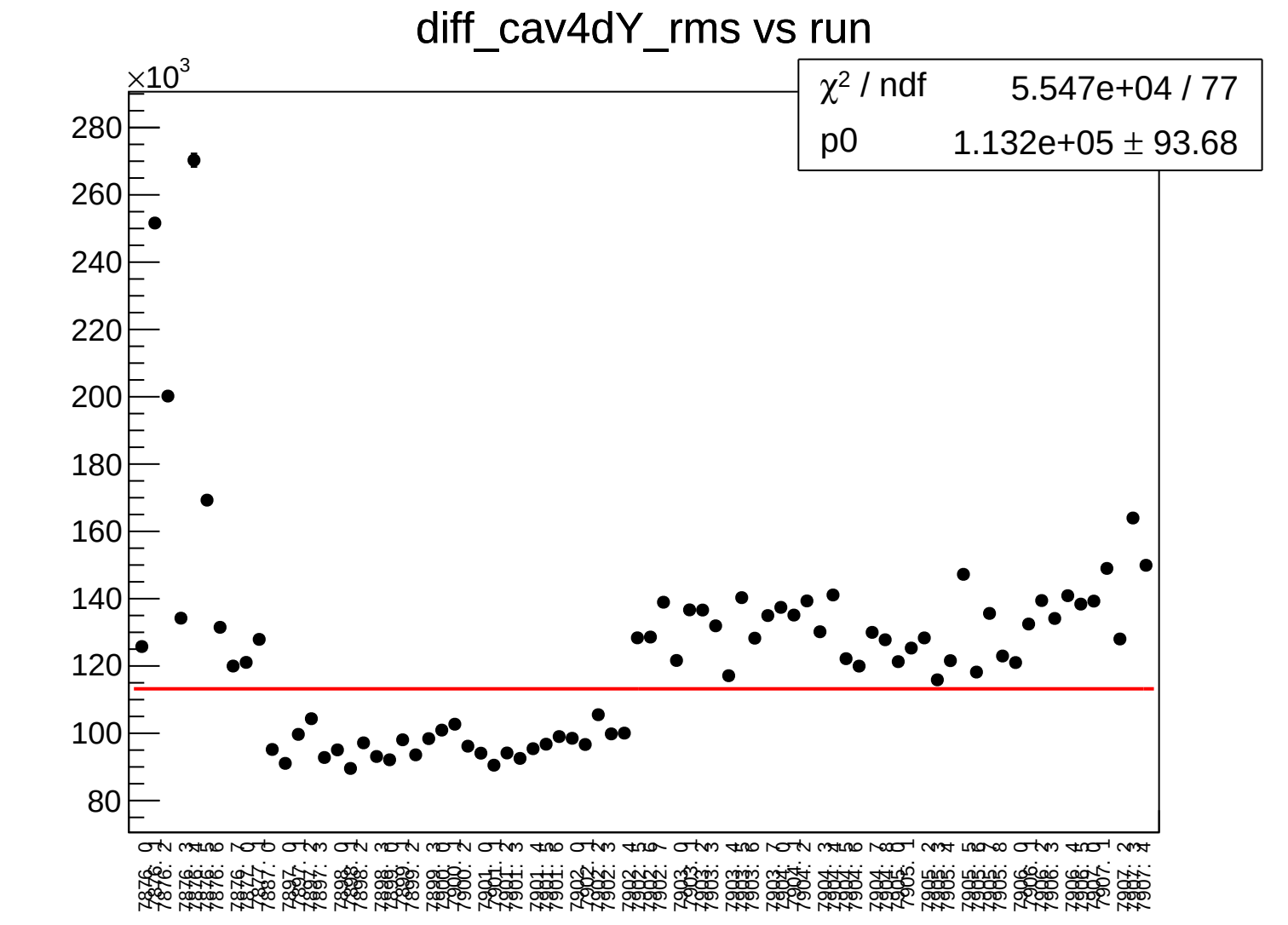

diff_cav4dX_mean vs run
χ² / ndf 71.96 / 77
p0 −985 ± 759
30000
20000
10000
0
−10000
−20000
pull
Entries 78
Mean −27.01
Std Dev 42.45
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

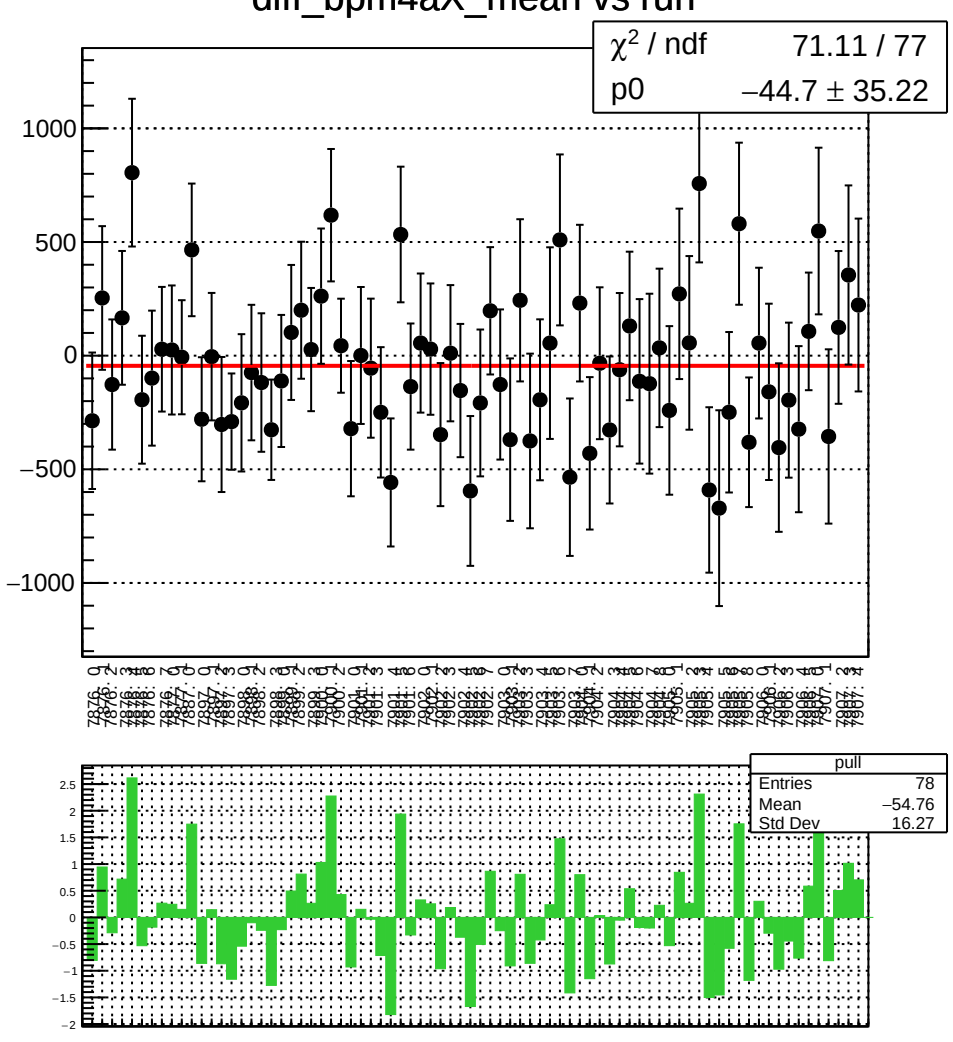

pull1D
Entries 78
Mean 0.01105
Std Dev 0.9604
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

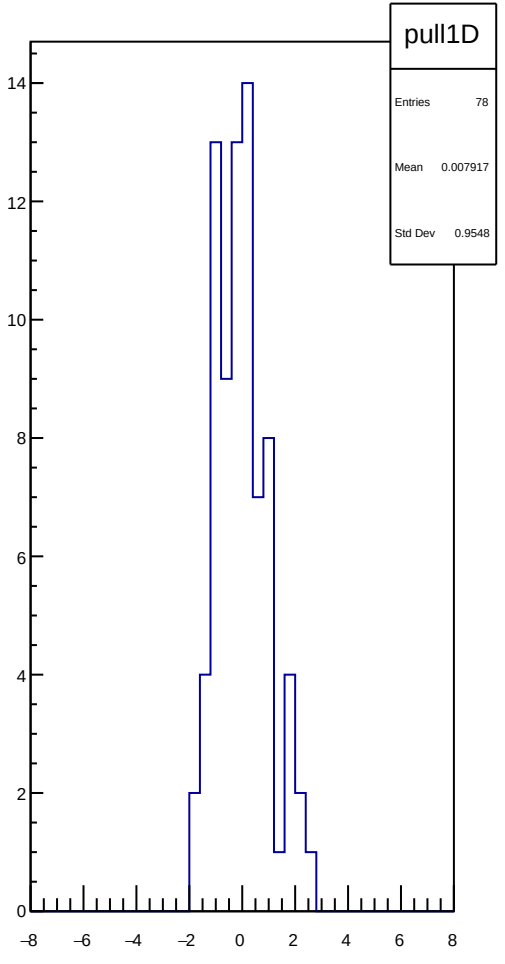

diff_cav4dX_rms vs run
×10^3
χ² / ndf 1.75e+04 / 77
p0 6.569e+05 ± 536.7
900
850
800
750
700
650
600
550

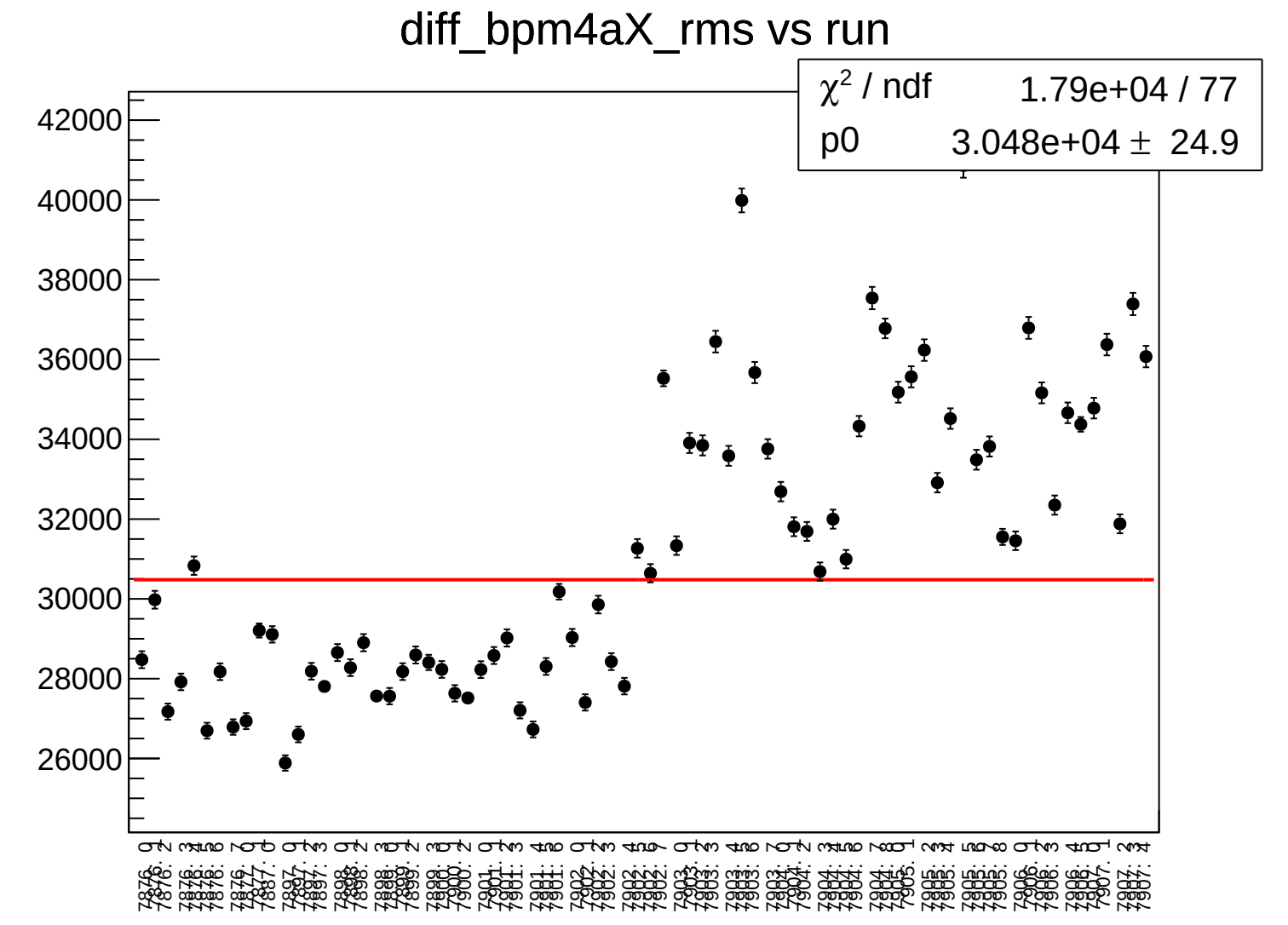

diff_cav4dY_mean vs run
χ² / ndf 68.42 / 77
p0 −64.97 ± 132.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 78
Mean −290.4
Std Dev 343.2
2
1
0
−1
−2
−3

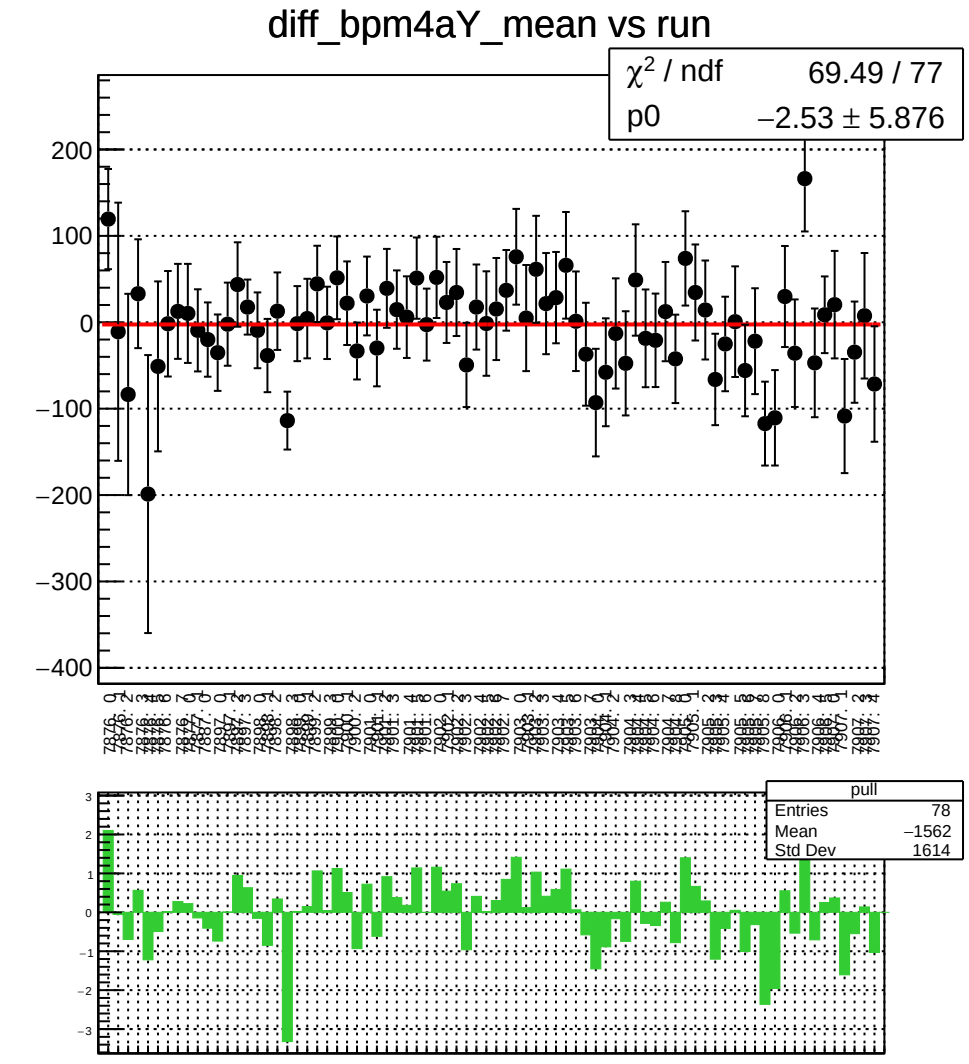

pull1D
Entries 78
Mean 0.006716
Std Dev 0.9366
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

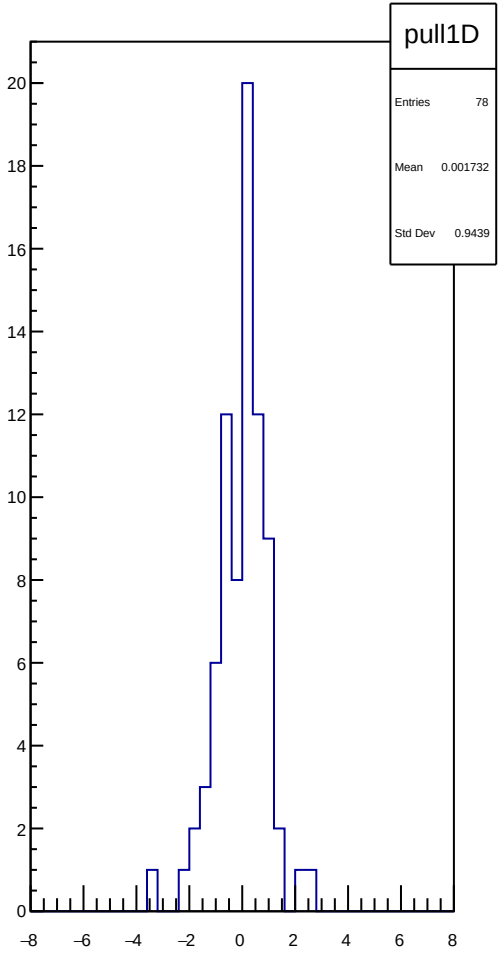

diff_cav4dY_rms vs run
×10^3
χ² / ndf 5.547e+04 / 77
p0 1.132e+05 ± 93.68
280
260
240
220
200
180
160
140
120
100
80

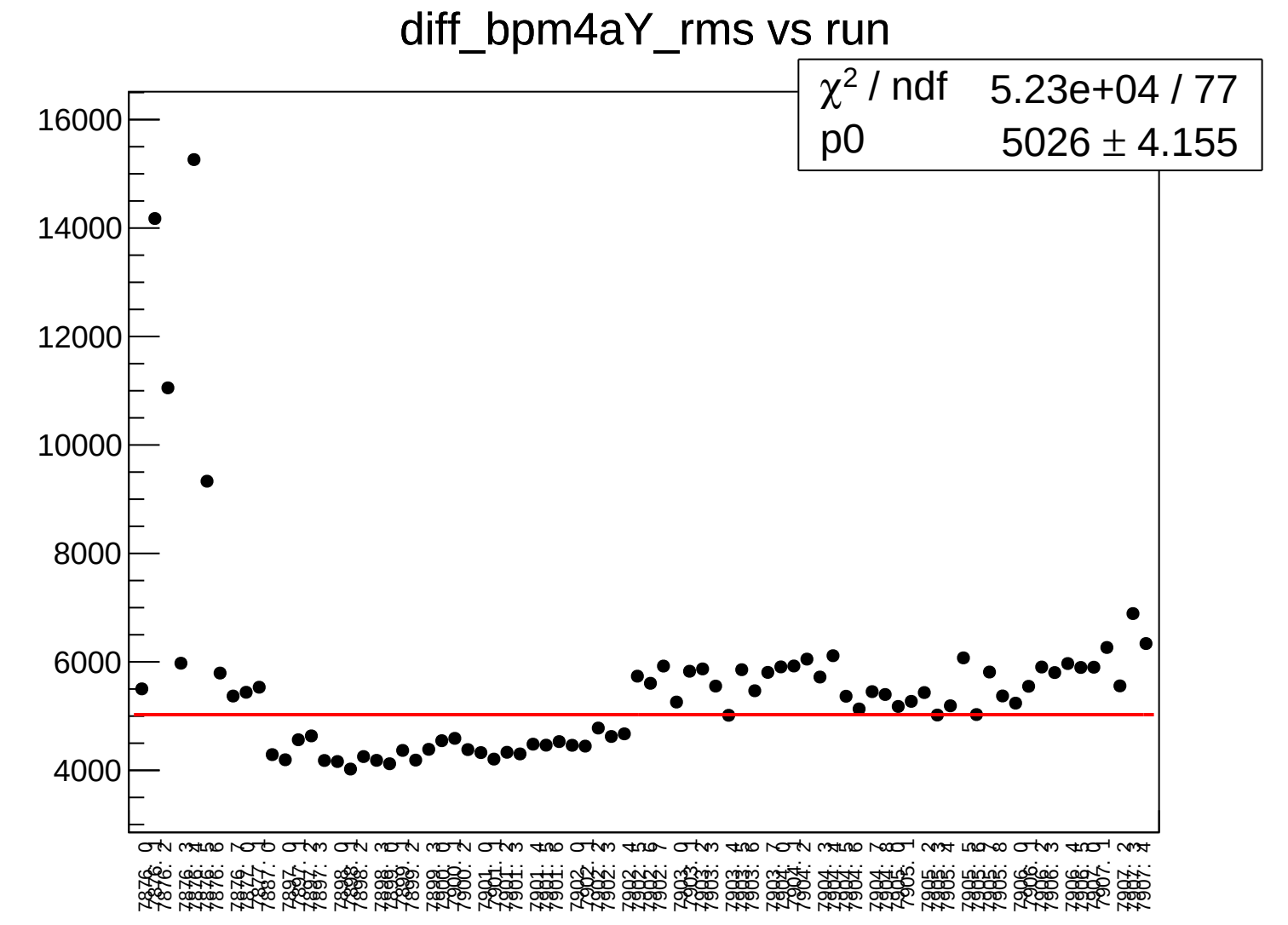

diff_bpm4aX_mean vs run
χ² / ndf 71.11 / 77
p0 −44.7 ± 35.22
1000
500
0
−500
−1000
pull
Entries 78
Mean −54.76
Std Dev 16.27
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

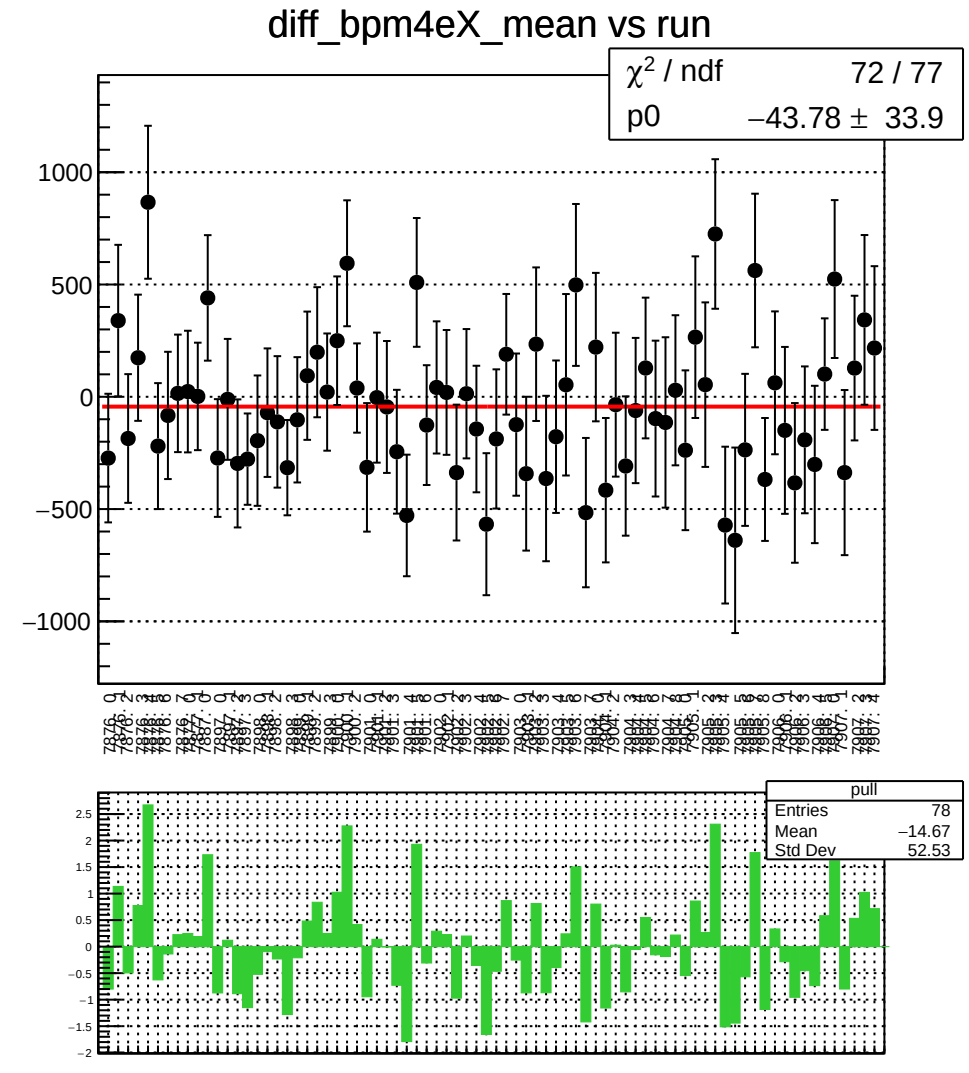

pull1D
Entries 78
Mean 0.007917
Std Dev 0.9548
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

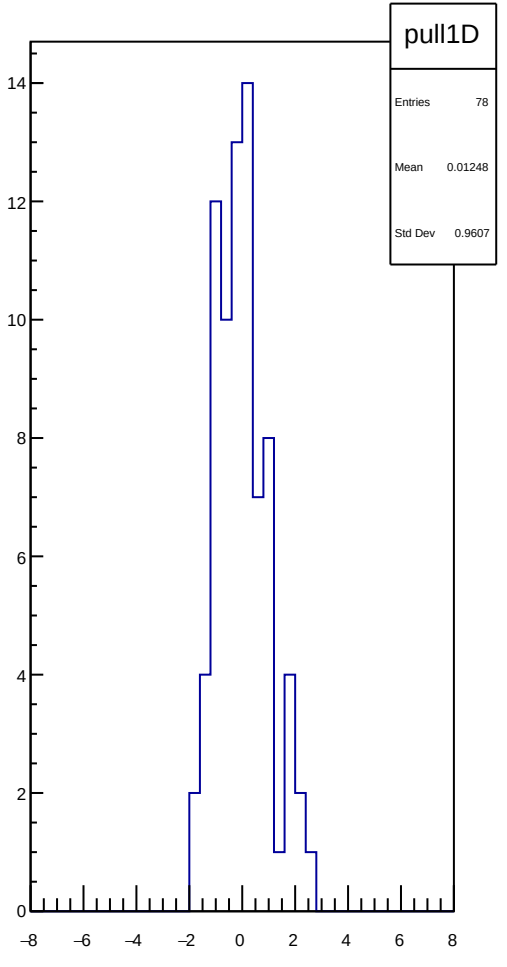

diff_bpm4aX_rms vs run
χ² / ndf 1.79e+04 / 77
p0 3.048e+04 ± 24.9
42000
40000
38000
36000
34000
32000
30000
28000
26000

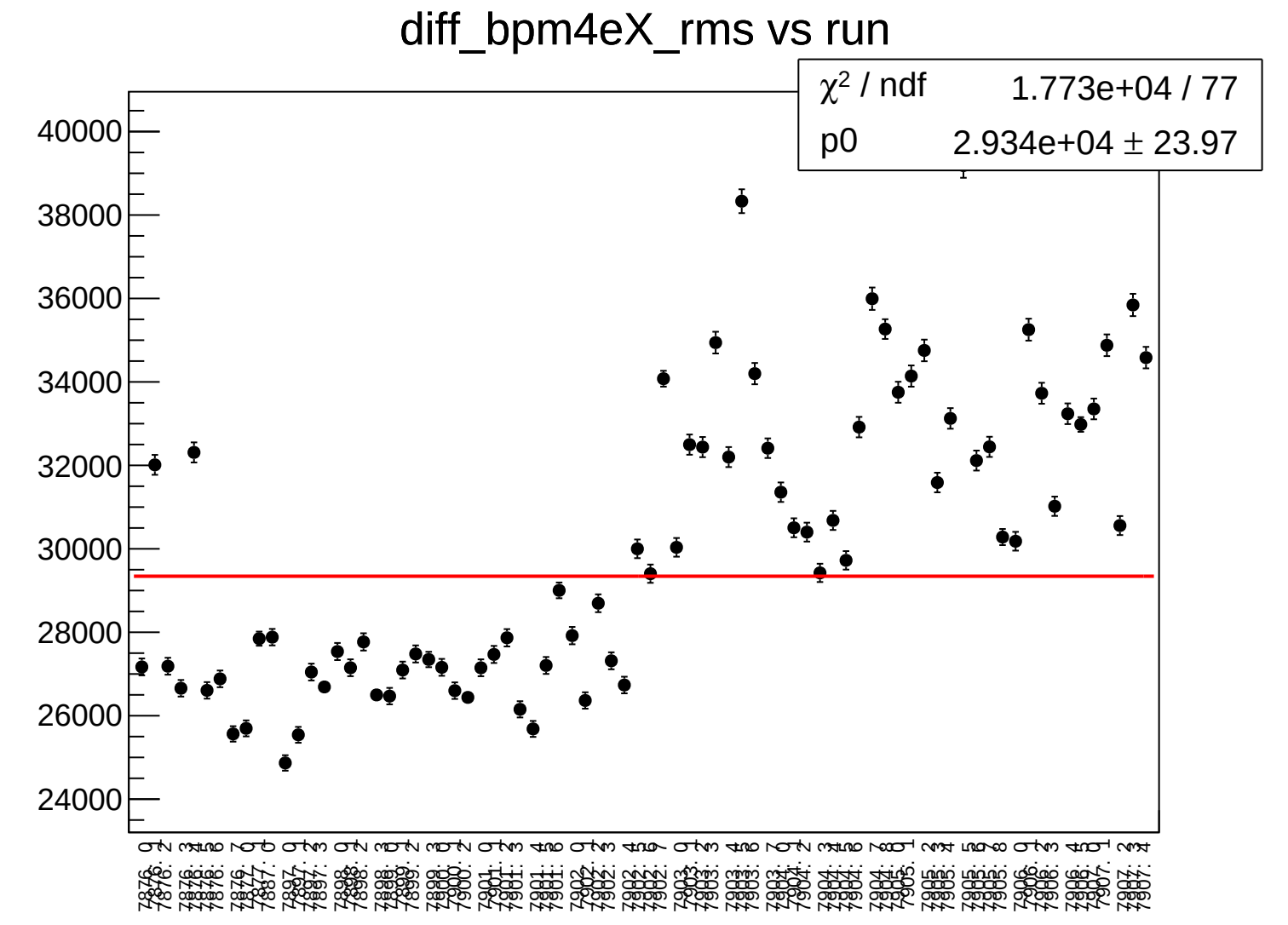

diff_bpm4aY_mean vs run
χ^2 / ndf 69.49 / 77
p0 −2.53 ± 5.876
pull
Entries 78
Mean −1562
Std Dev 1614

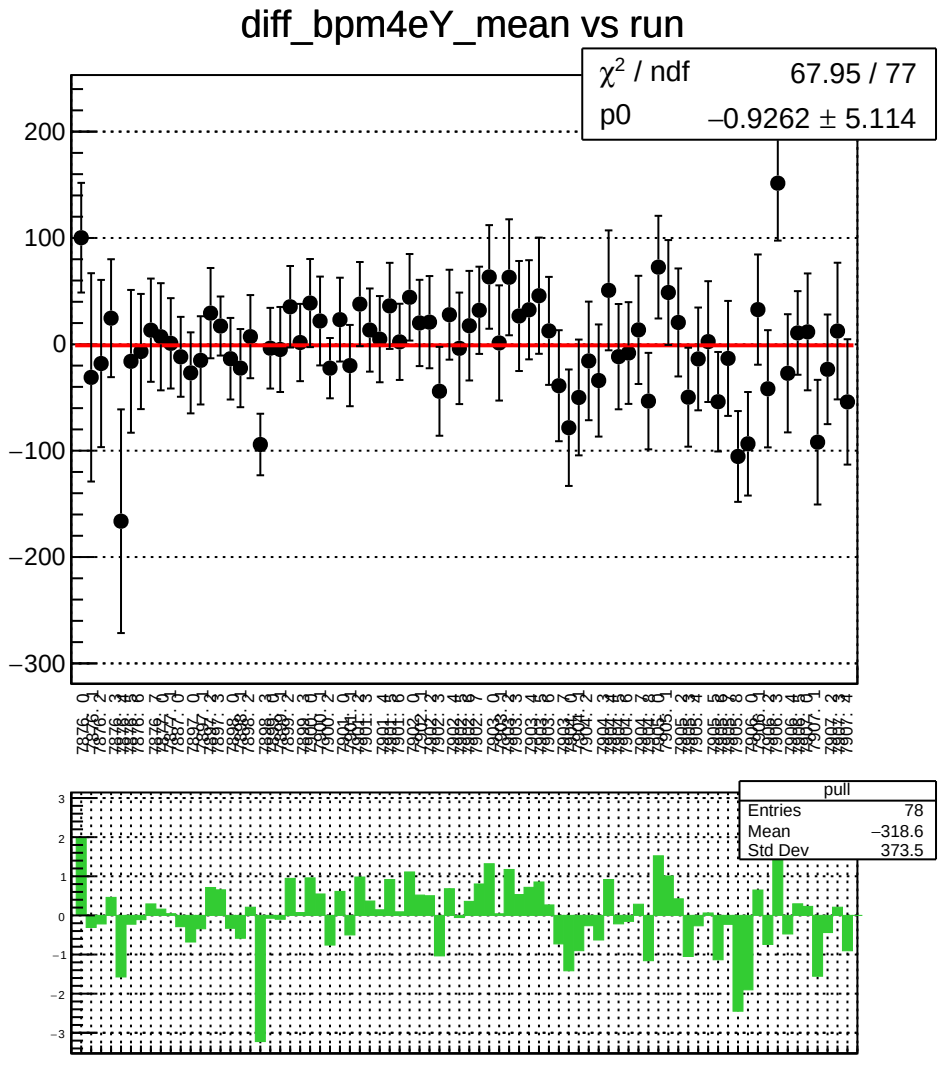

pull1D
Entries 78
Mean 0.001732
Std Dev 0.9439

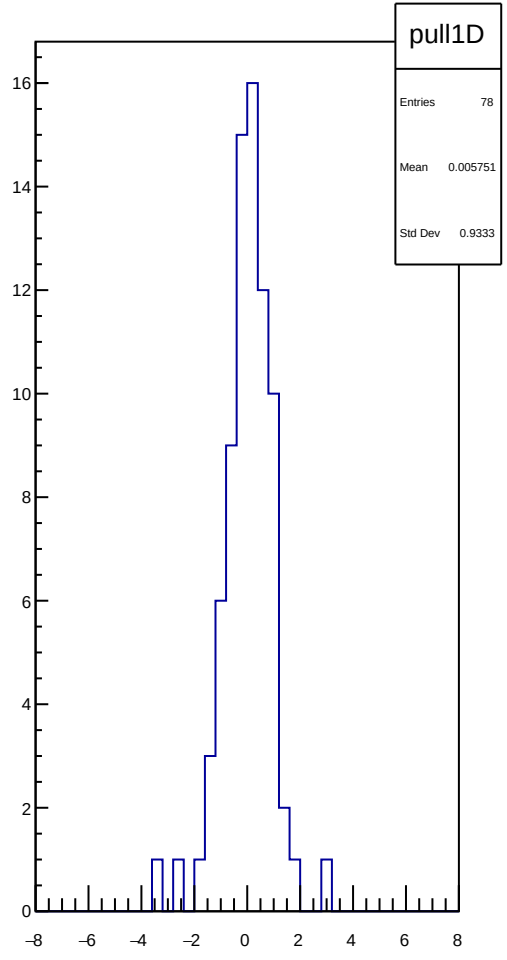

diff_bpm4aY_rms vs run
χ² / ndf 5.23e+04 / 77
p0 5026 ± 4.155
16000
14000
12000
10000
8000
6000
4000

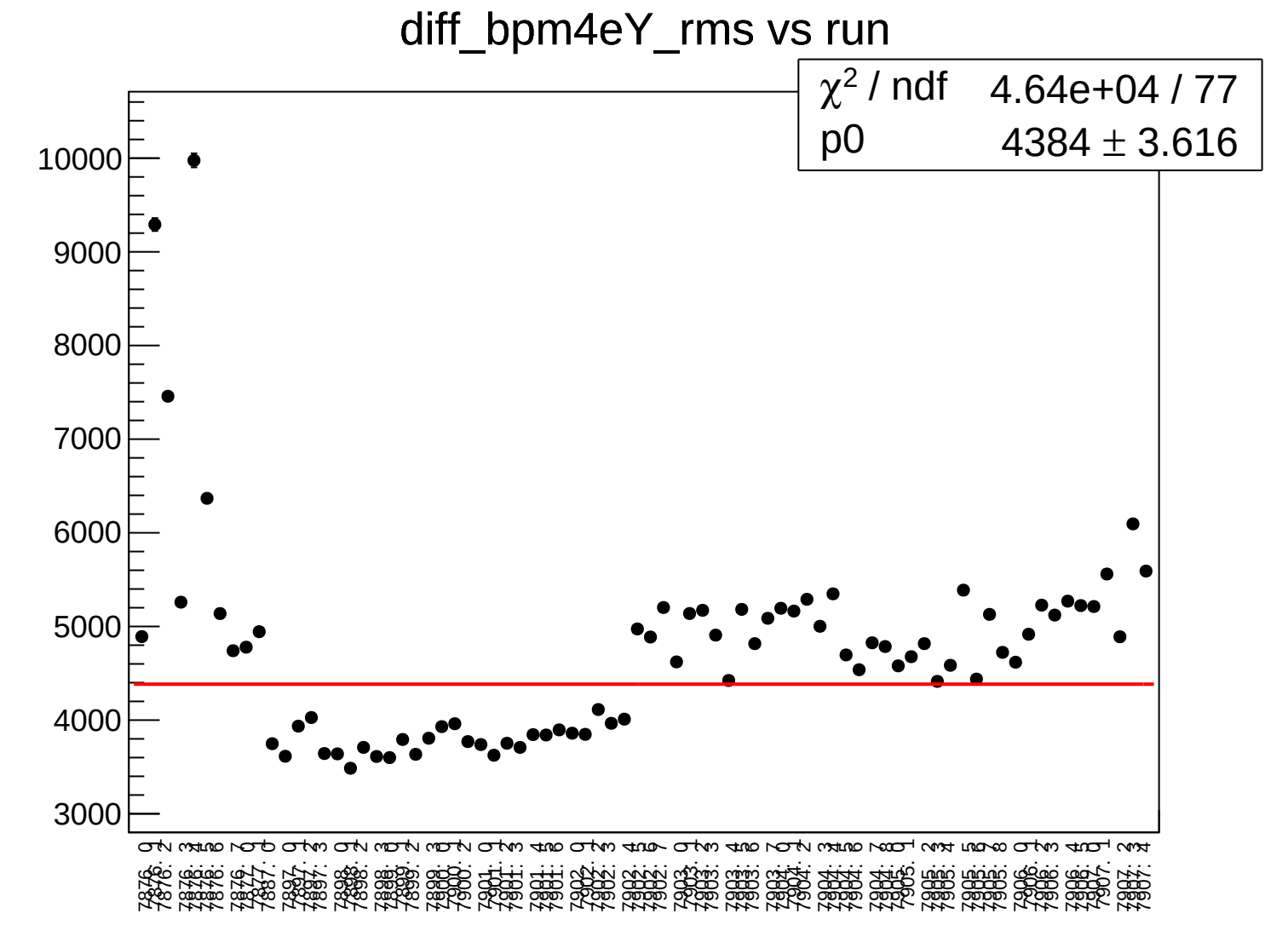

diff_bpm4eX_mean vs run
χ² / ndf 72 / 77
p0 −43.78 ± 33.9
1000
500
0
−500
−1000
pull
Entries 78
Mean −14.67
Std Dev 52.53
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

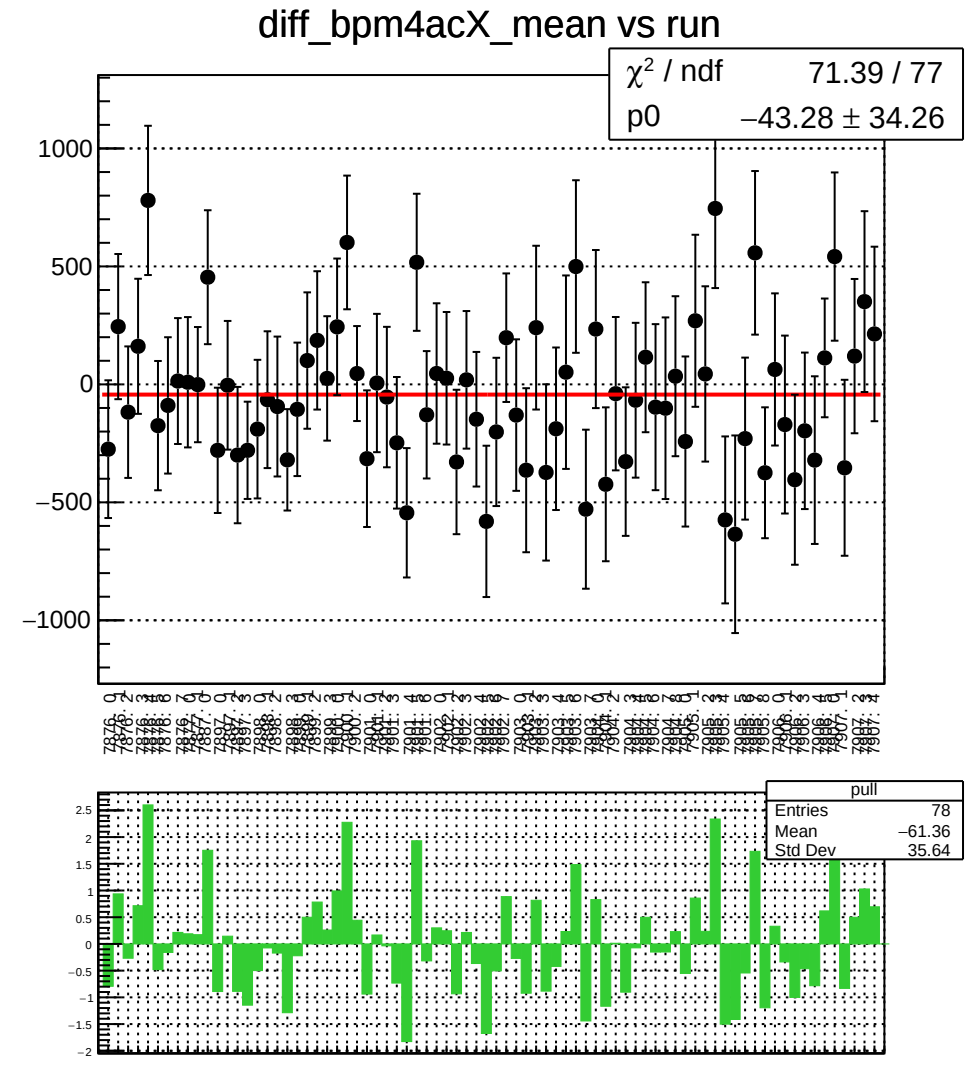

pull1D
Entries 78
Mean 0.01248
Std Dev 0.9607
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

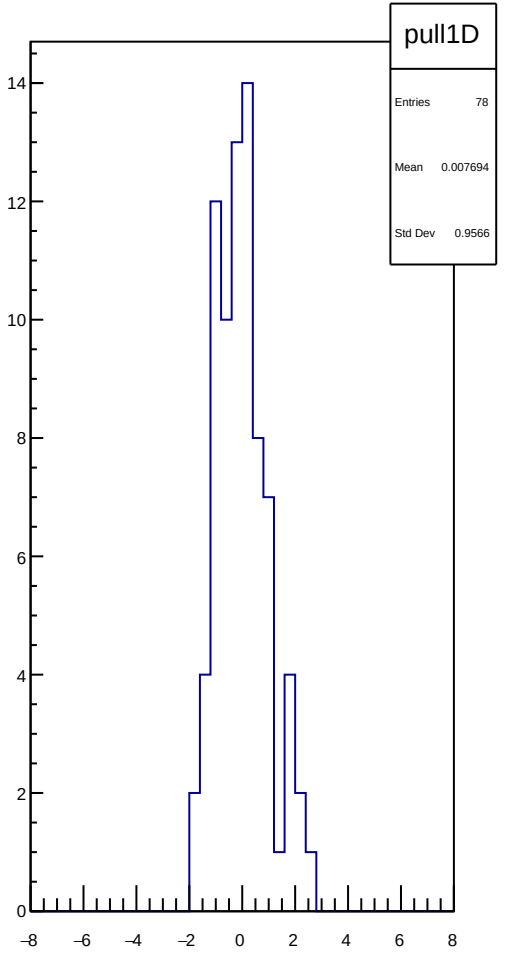

diff_bpm4eX_rms vs run
χ² / ndf 1.773e+04 / 77
p0 2.934e+04 ± 23.97
40000
38000
36000
34000
32000
30000
28000
26000
24000

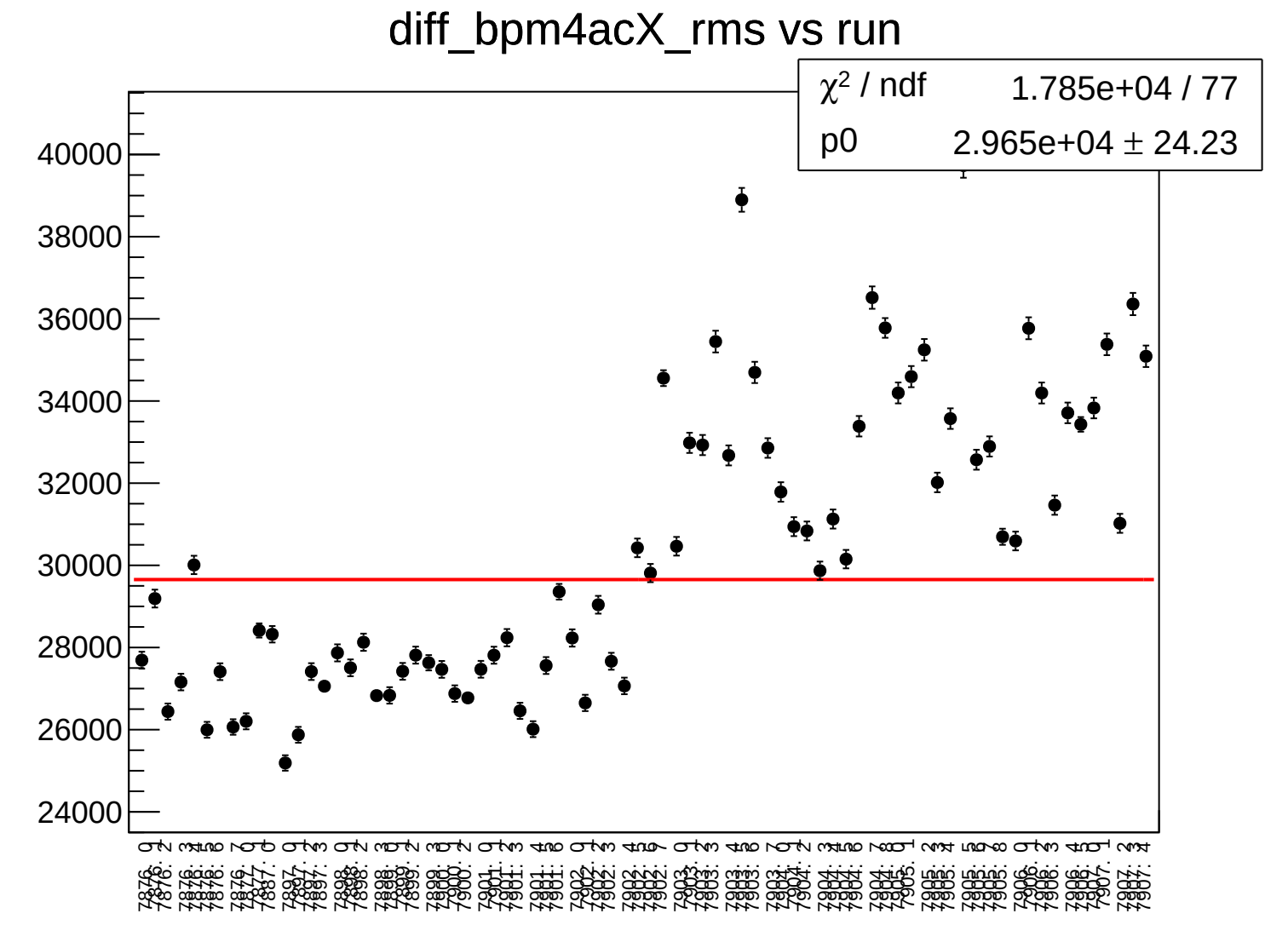

diff_bpm4eY_mean vs run
χ² / ndf 67.95 / 77
p0 −0.9262 ± 5.114
200
100
0
−100
−200
−300
pull
Entries 78
Mean −318.6
Std Dev 373.5
3
2
1
0
−1
−2
−3

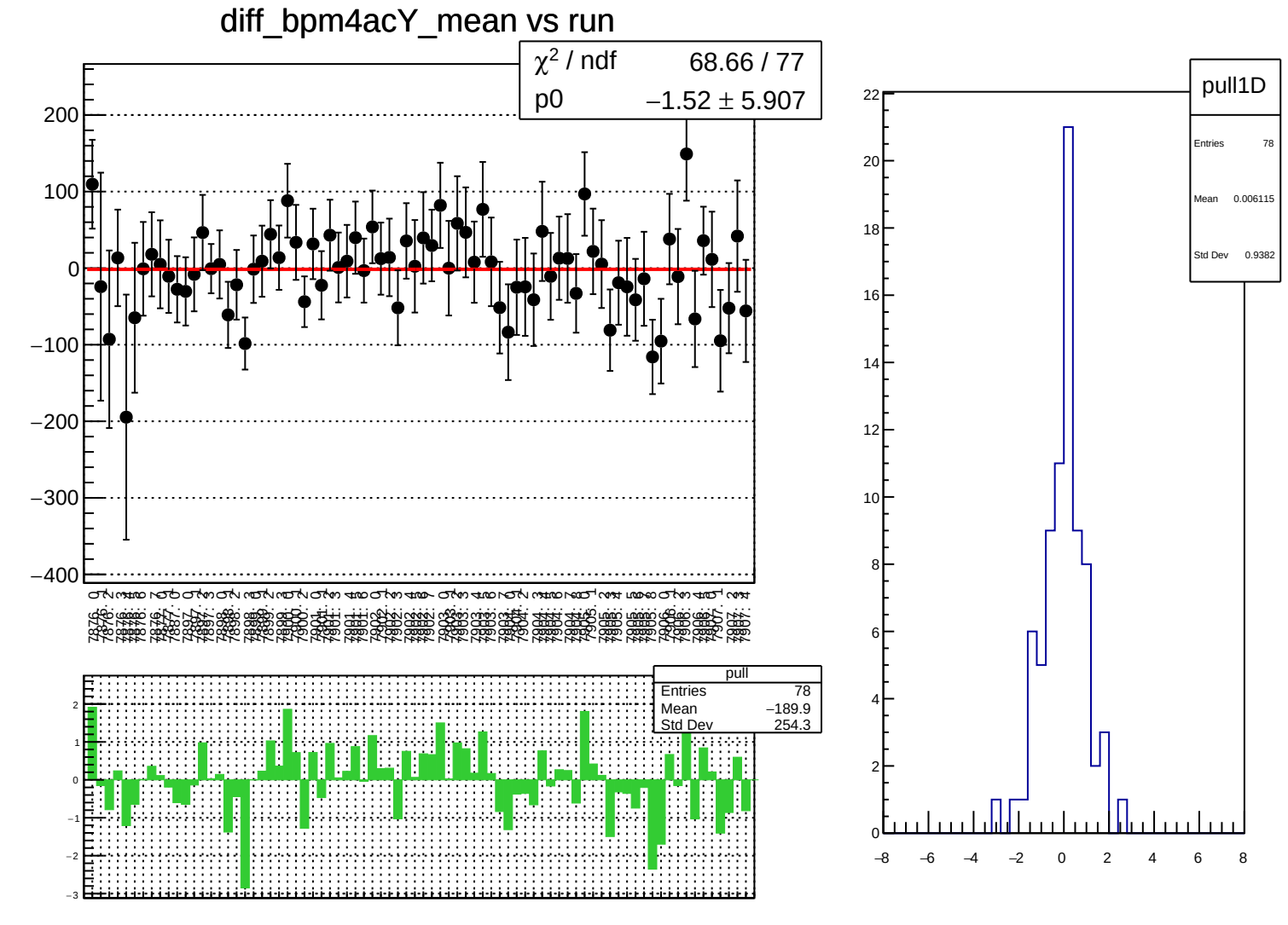

pull1D
Entries 78
Mean 0.005751
Std Dev 0.9333
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

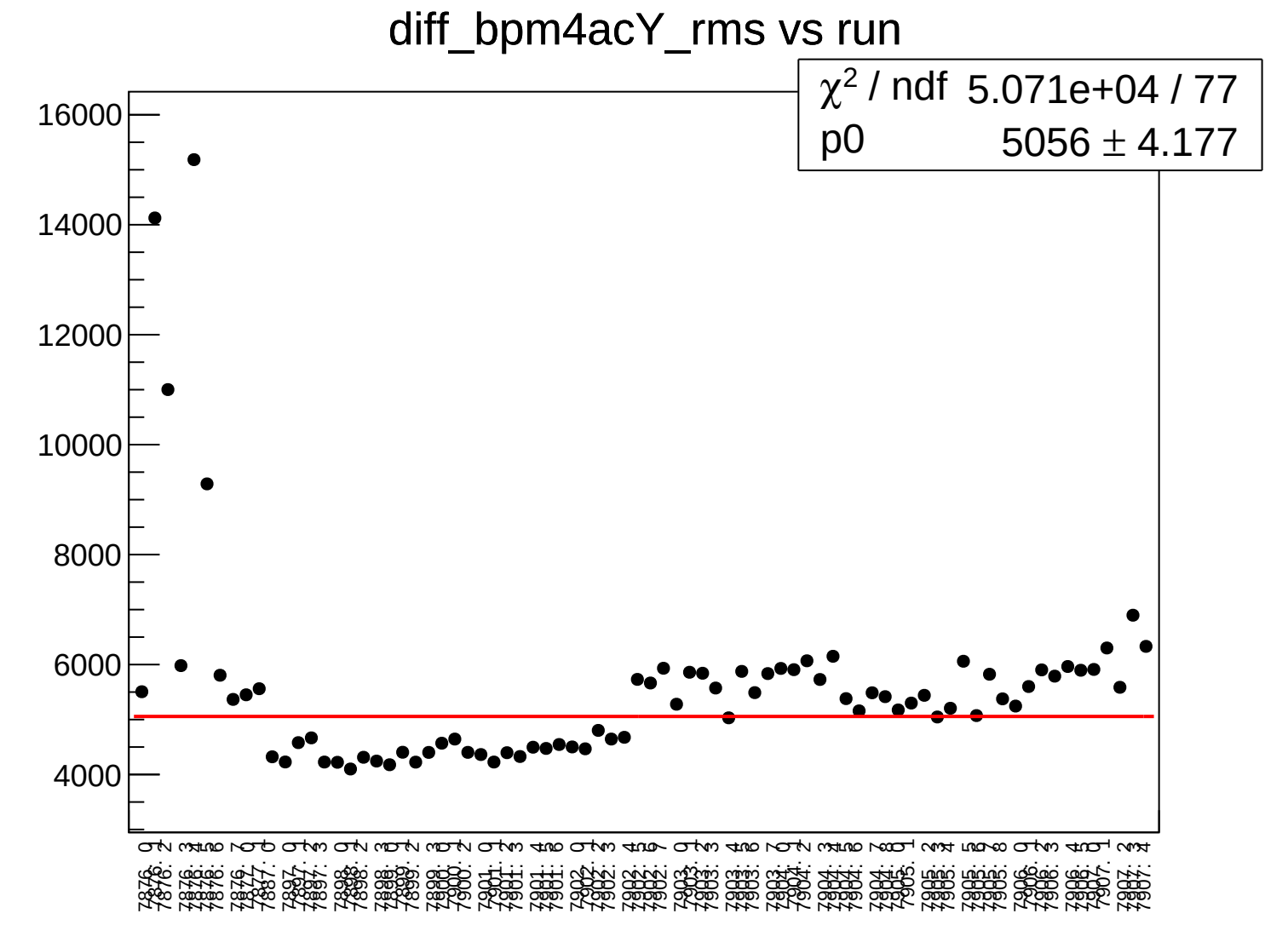

diff_bpm4eY_rms vs run
χ² / ndf 4.64e+04 / 77
p0 4384 ± 3.616
10000
9000
8000
7000
6000
5000
4000
3000

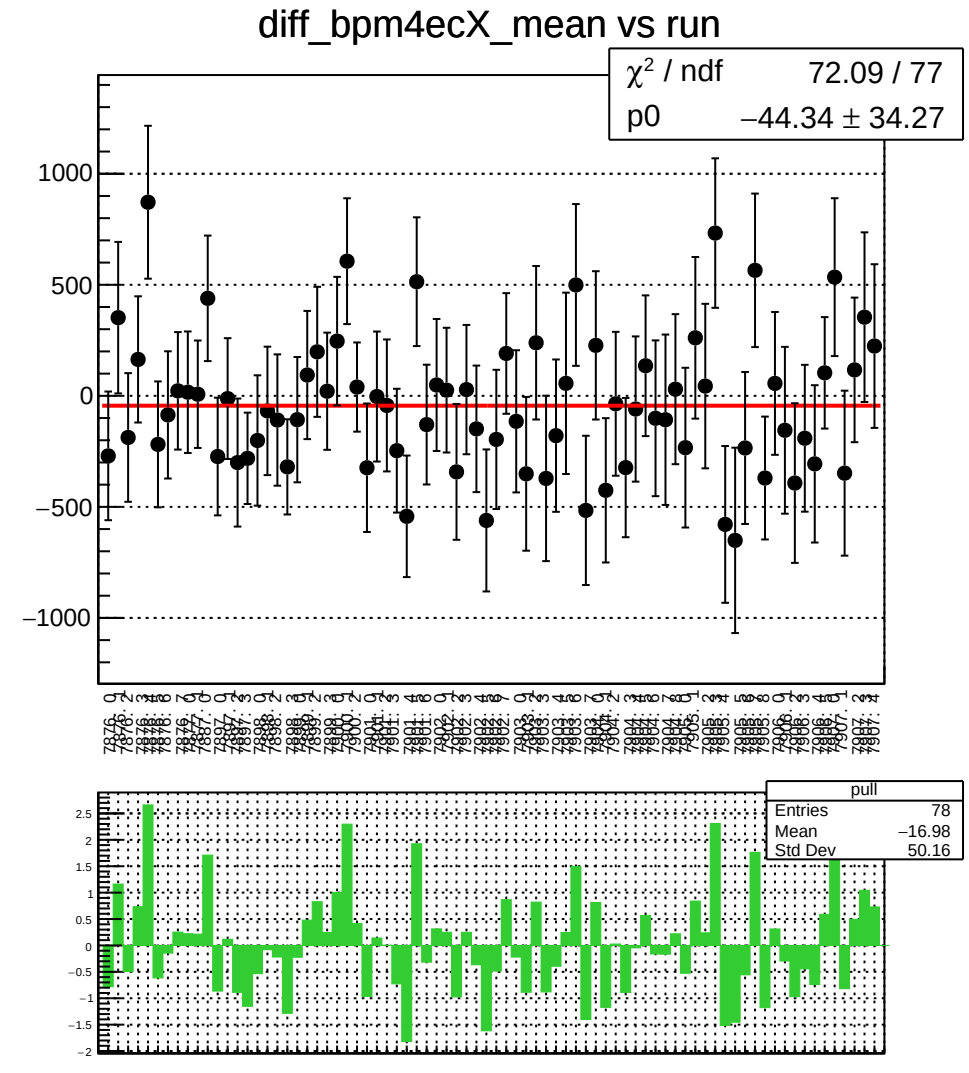

diff_bpm4acX_mean vs run
χ² / ndf 71.39 / 77
p0 −43.28 ± 34.26
1000
500
0
−500
−1000
pull
Entries 78
Mean −61.36
Std Dev 35.64
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

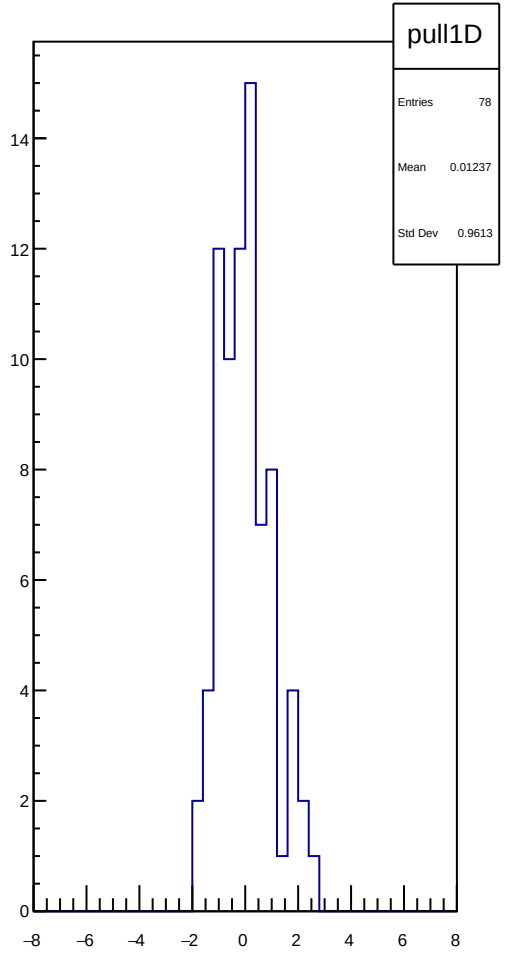

pull1D
Entries 78
Mean 0.007694
Std Dev 0.9566
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

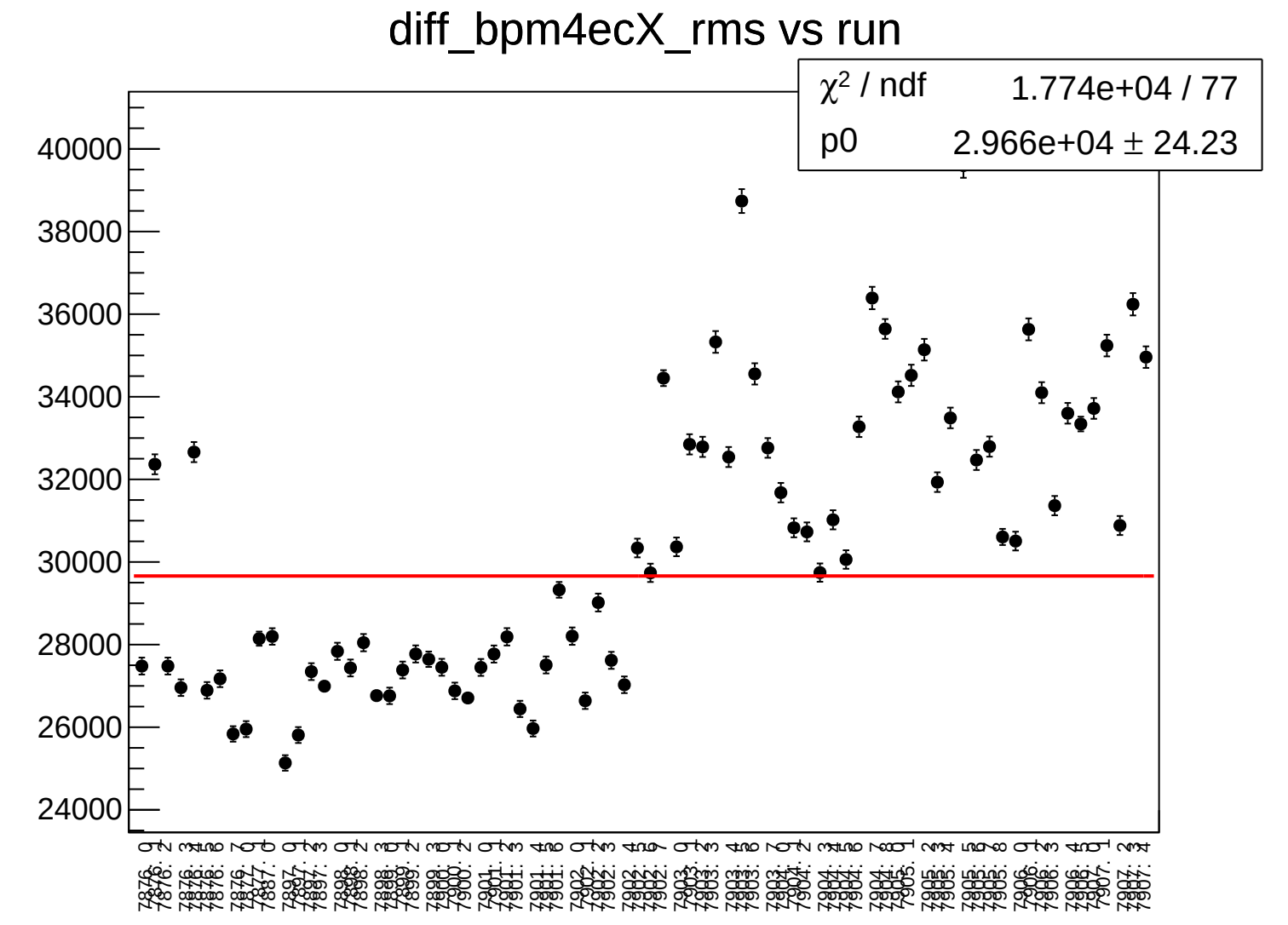

diff_bpm4acX_rms vs run
χ² / ndf 1.785e+04 / 77
p0 2.965e+04 ± 24.23
40000
38000
36000
34000
32000
30000
28000
26000
24000

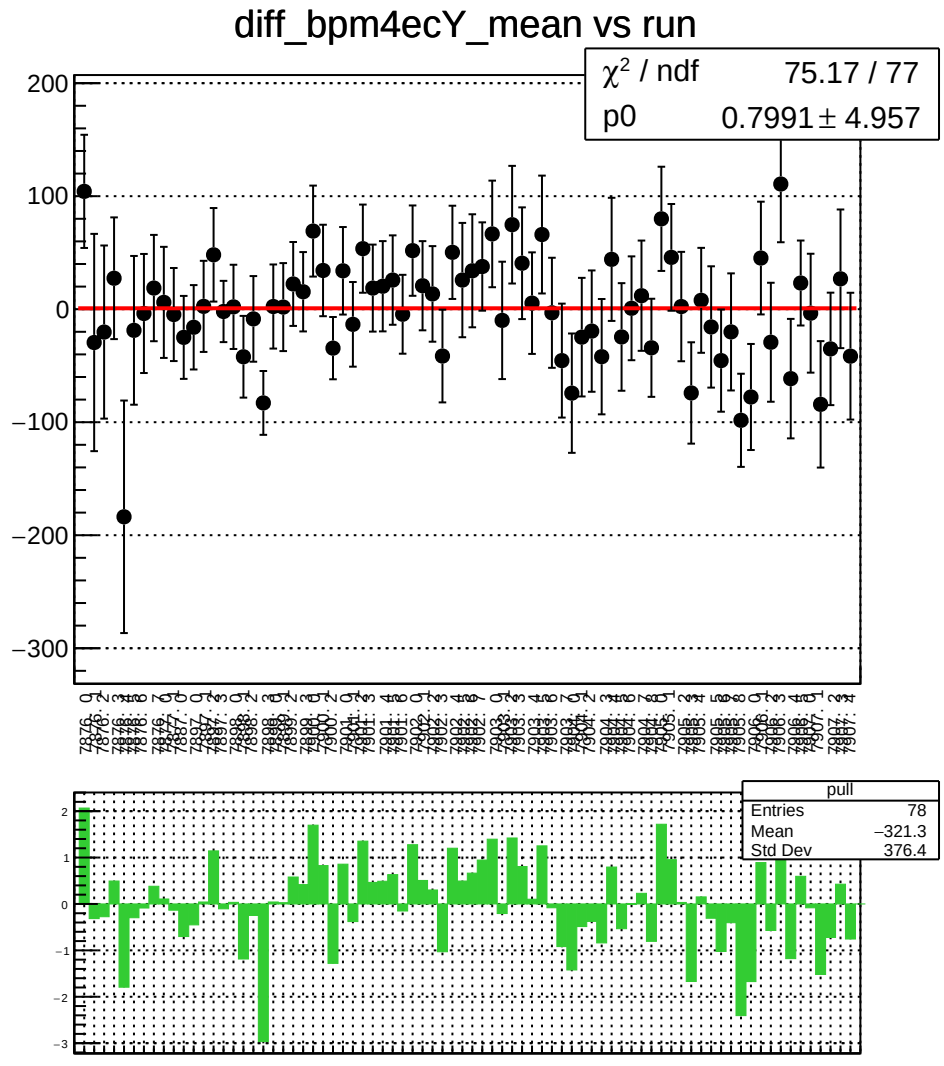

diff_bpm4acY_mean vs run
χ² / ndf 68.66 / 77
p0 −1.52 ± 5.907
pull
Entries 78
Mean −189.9
Std Dev 254.3
pull1D
Entries 78
Mean 0.006115
Std Dev 0.9382

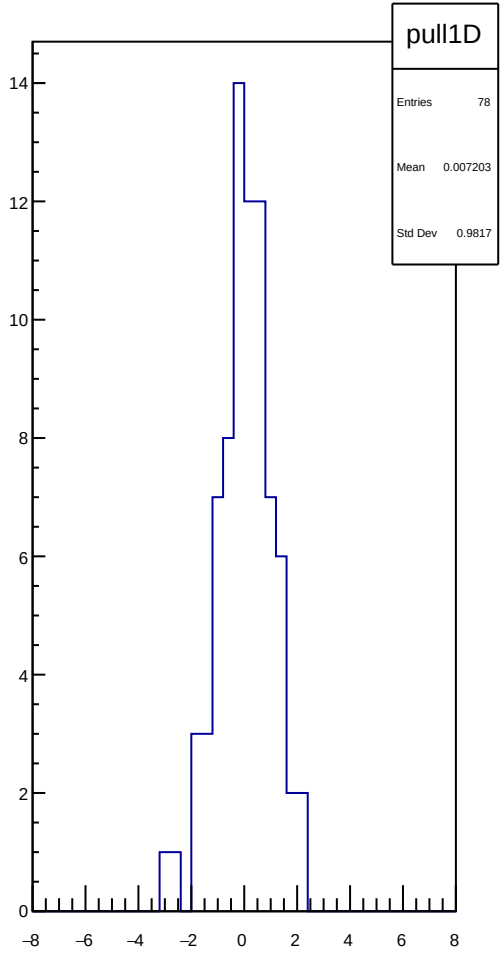

diff_bpm4acY_rms vs run
χ² / ndf 5.071e+04 / 77
p0 5056 ± 4.177
16000
14000
12000
10000
8000
6000
4000

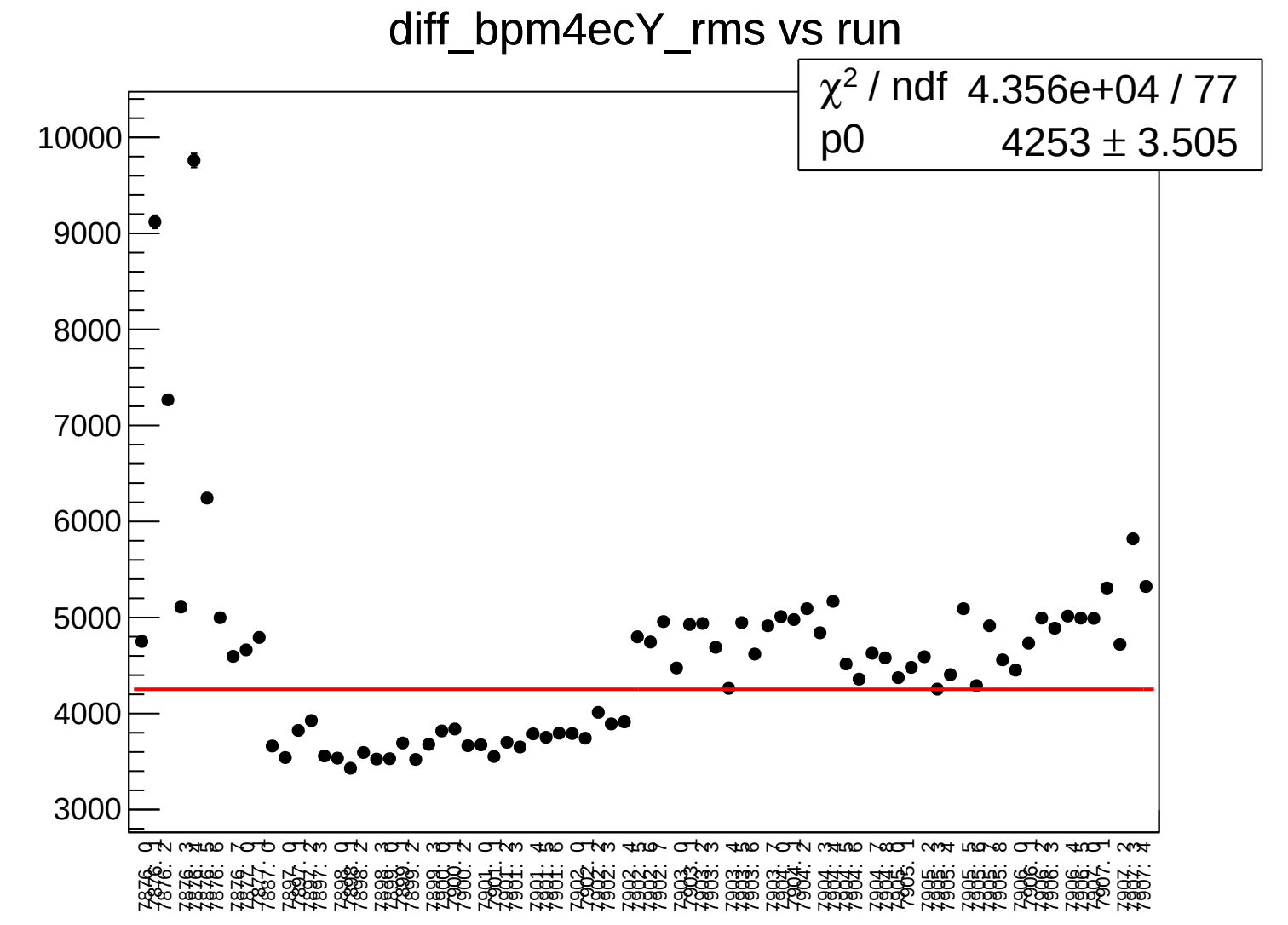

diff_bpm4ecX_mean vs run
χ² / ndf 72.09 / 77
p0 −44.34 ± 34.27
1000
500
0
−500
−1000
pull
Entries 78
Mean −16.98
Std Dev 50.16
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

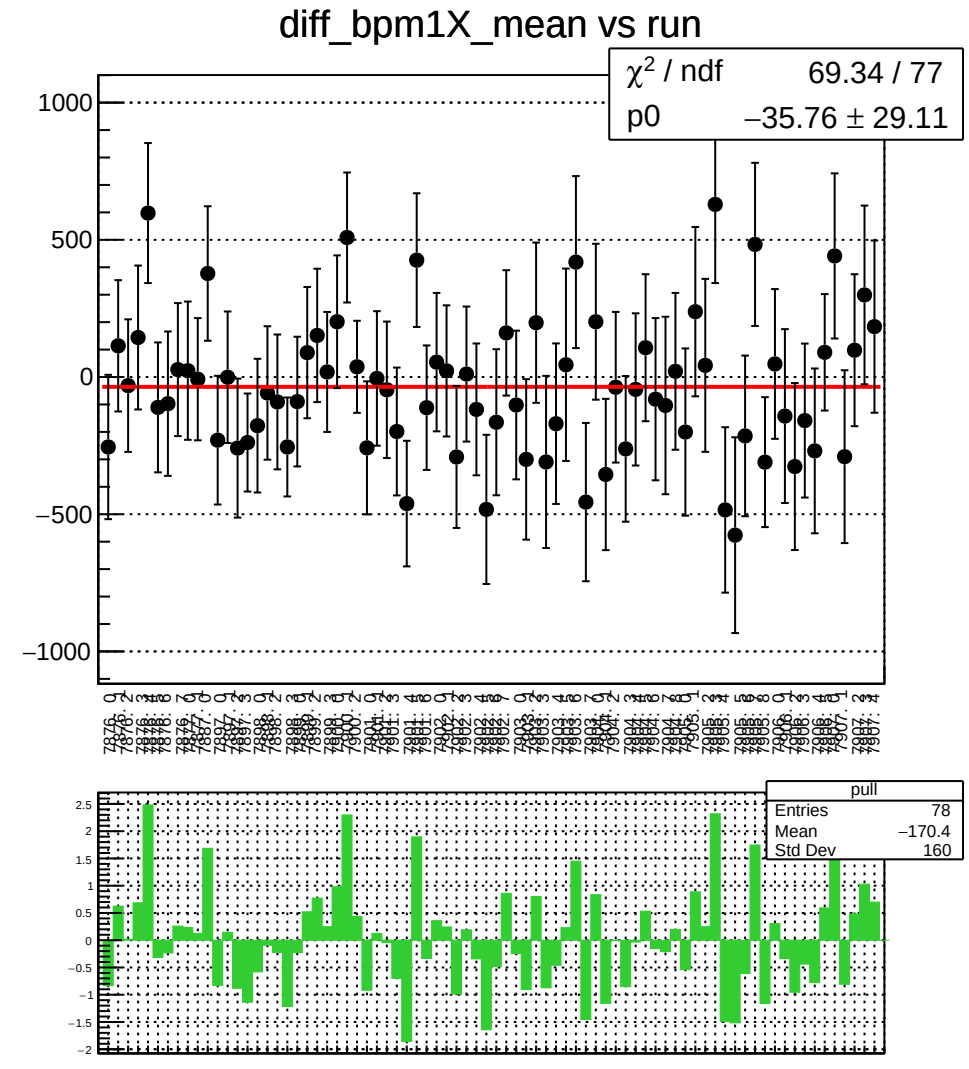

pull1D
Entries 78
Mean 0.01237
Std Dev 0.9613
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

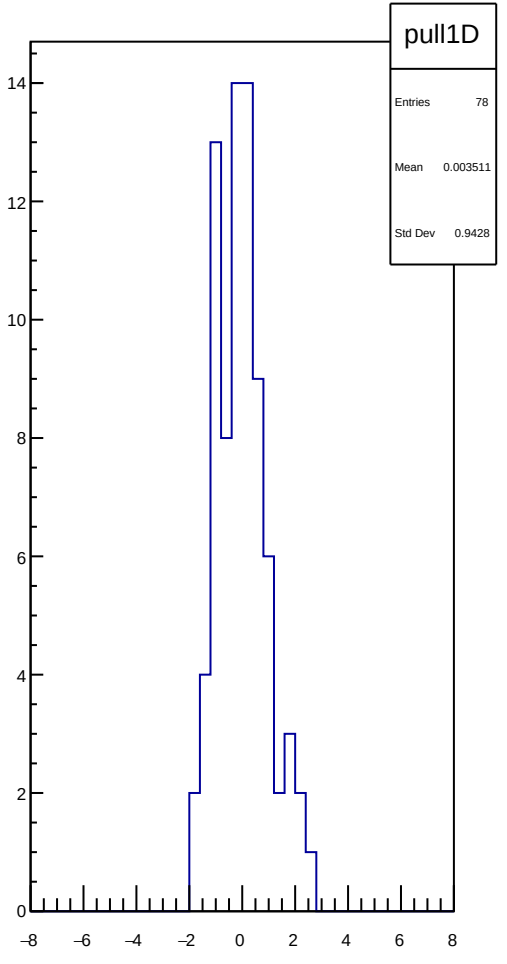

diff_bpm4ecX_rms vs run
χ² / ndf 1.774e+04 / 77
p0 2.966e+04 ± 24.23
40000
38000
36000
34000
32000
30000
28000
26000
24000

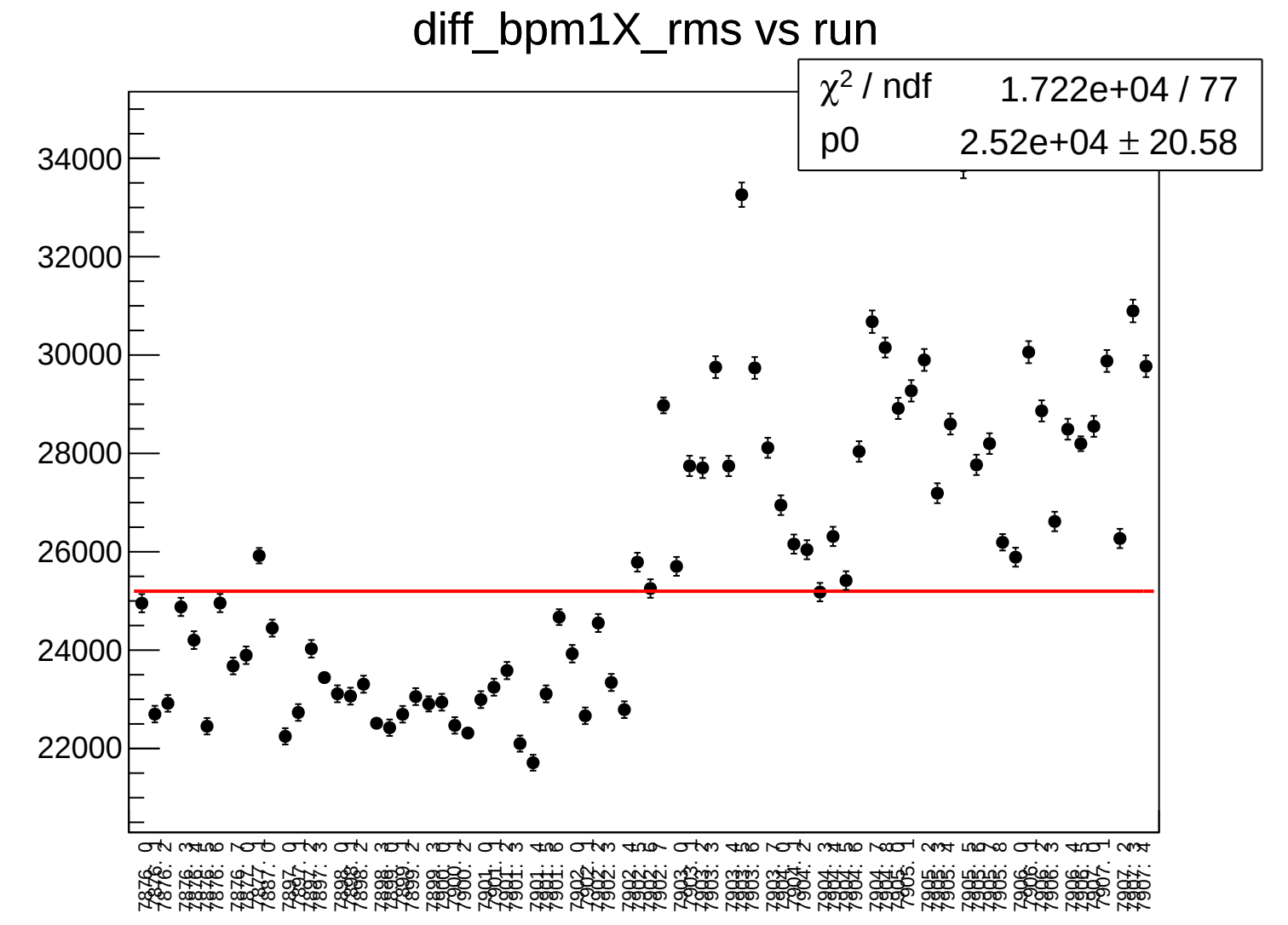

diff_bpm4ecY_mean vs run
χ² / ndf 75.17 / 77
p0 0.7991 ± 4.957
200
100
0
−100
−200
−300
pull
Entries 78
Mean −321.3
Std Dev 376.4
2
1
0
−1
−2
−3

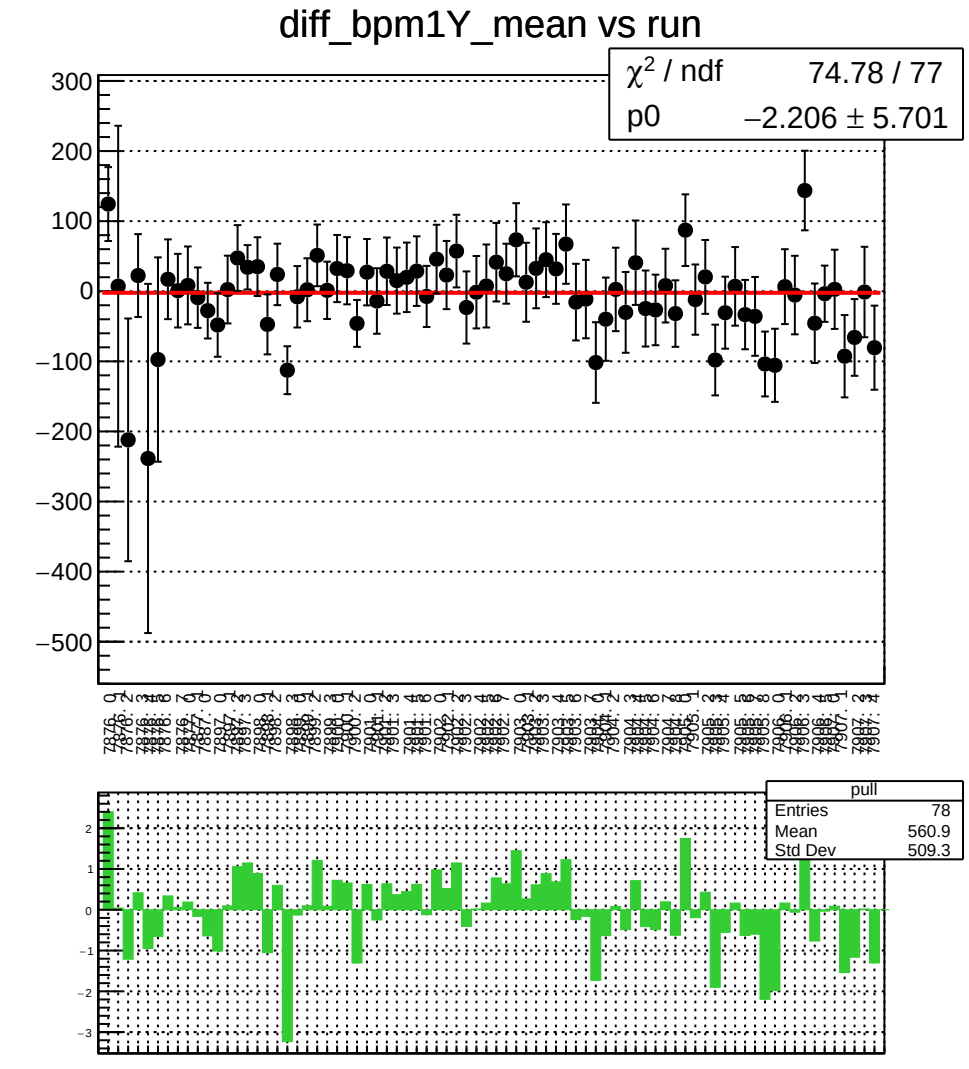

pull1D
Entries 78
Mean 0.007203
Std Dev 0.9817
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

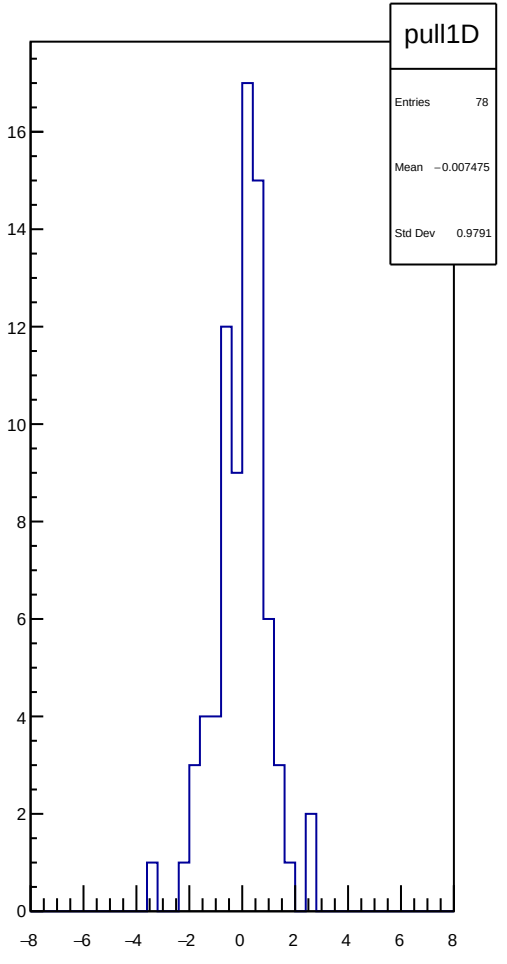

diff_bpm4ecY_rms vs run
χ² / ndf 4.356e+04 / 77
p0 4253 ± 3.505
10000
9000
8000
7000
6000
5000
4000
3000

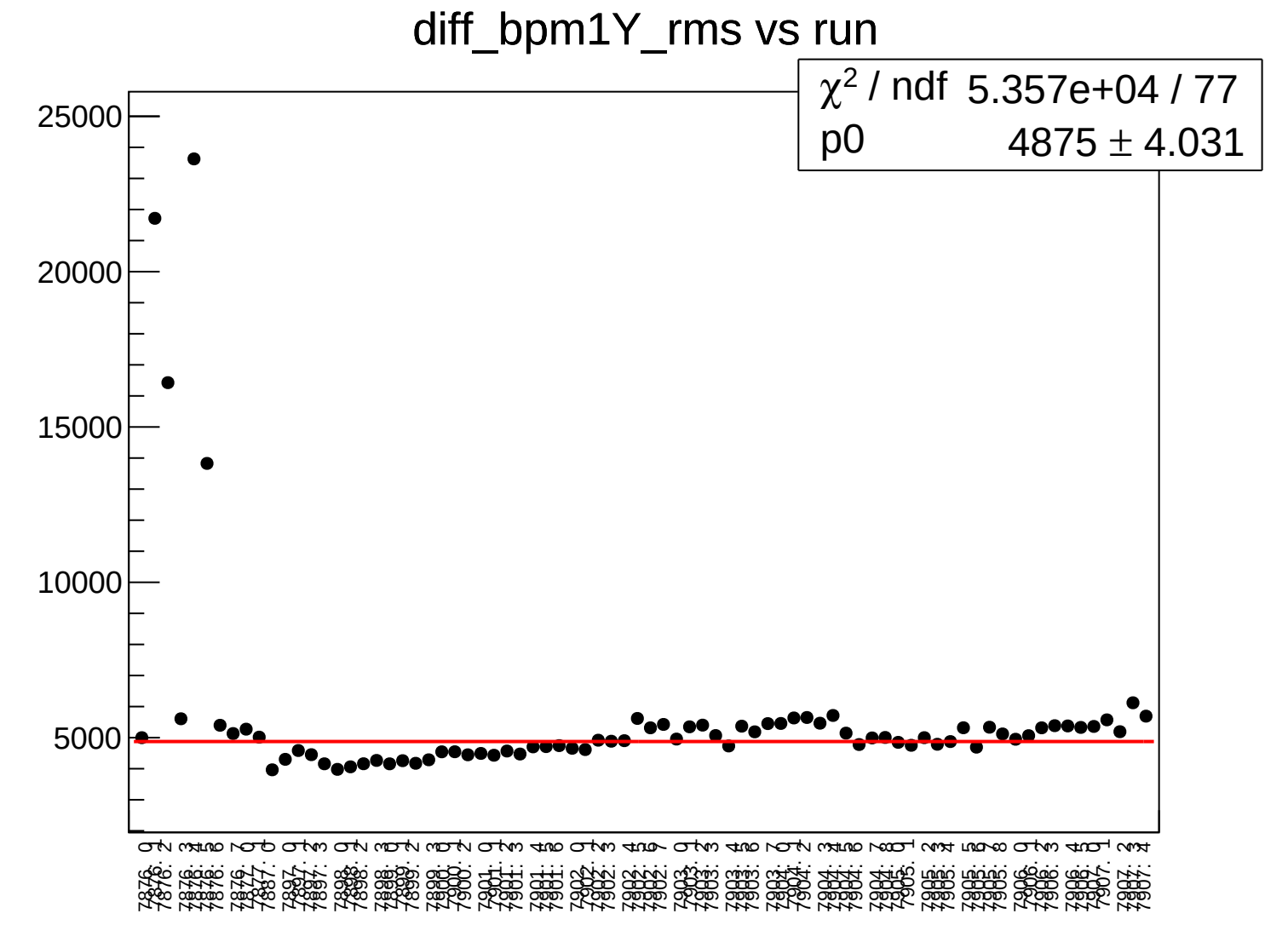

diff_bpm1X_mean vs run
χ^2 / ndf 69.34 / 77
p0 −35.76 ± 29.11
1000
500
0
−500
−1000
pull
Entries 78
Mean −170.4
Std Dev 160
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

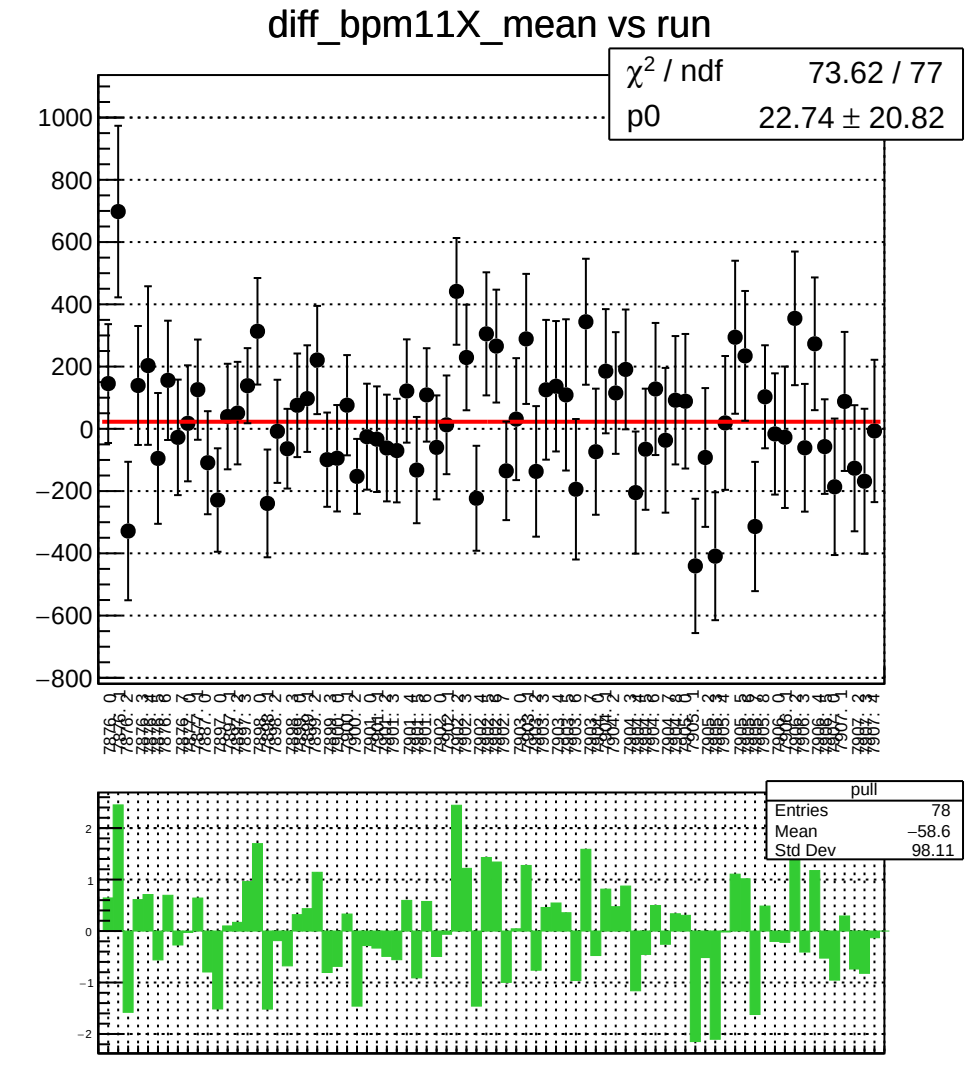

pull1D
Entries 78
Mean 0.003511
Std Dev 0.9428
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

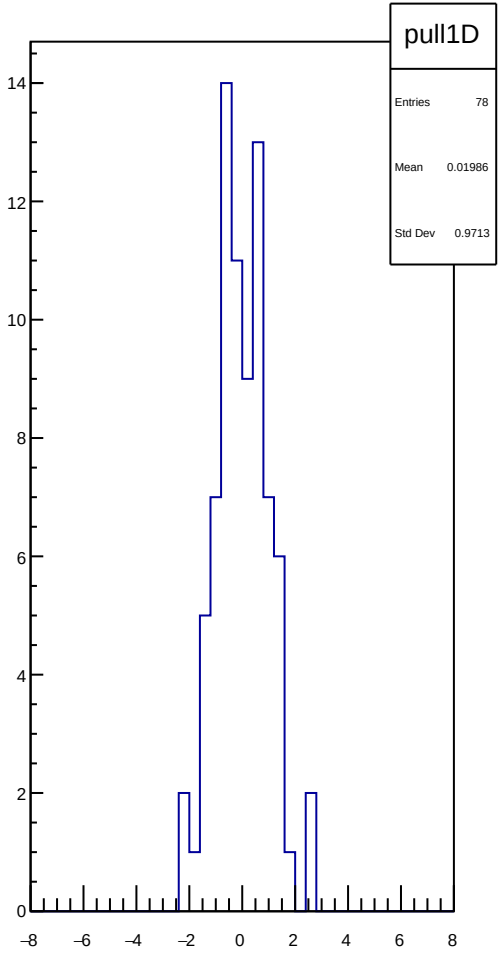

diff_bpm1X_rms vs run
χ² / ndf 1.722e+04 / 77
p0 2.52e+04 ± 20.58
34000
32000
30000
28000
26000
24000
22000

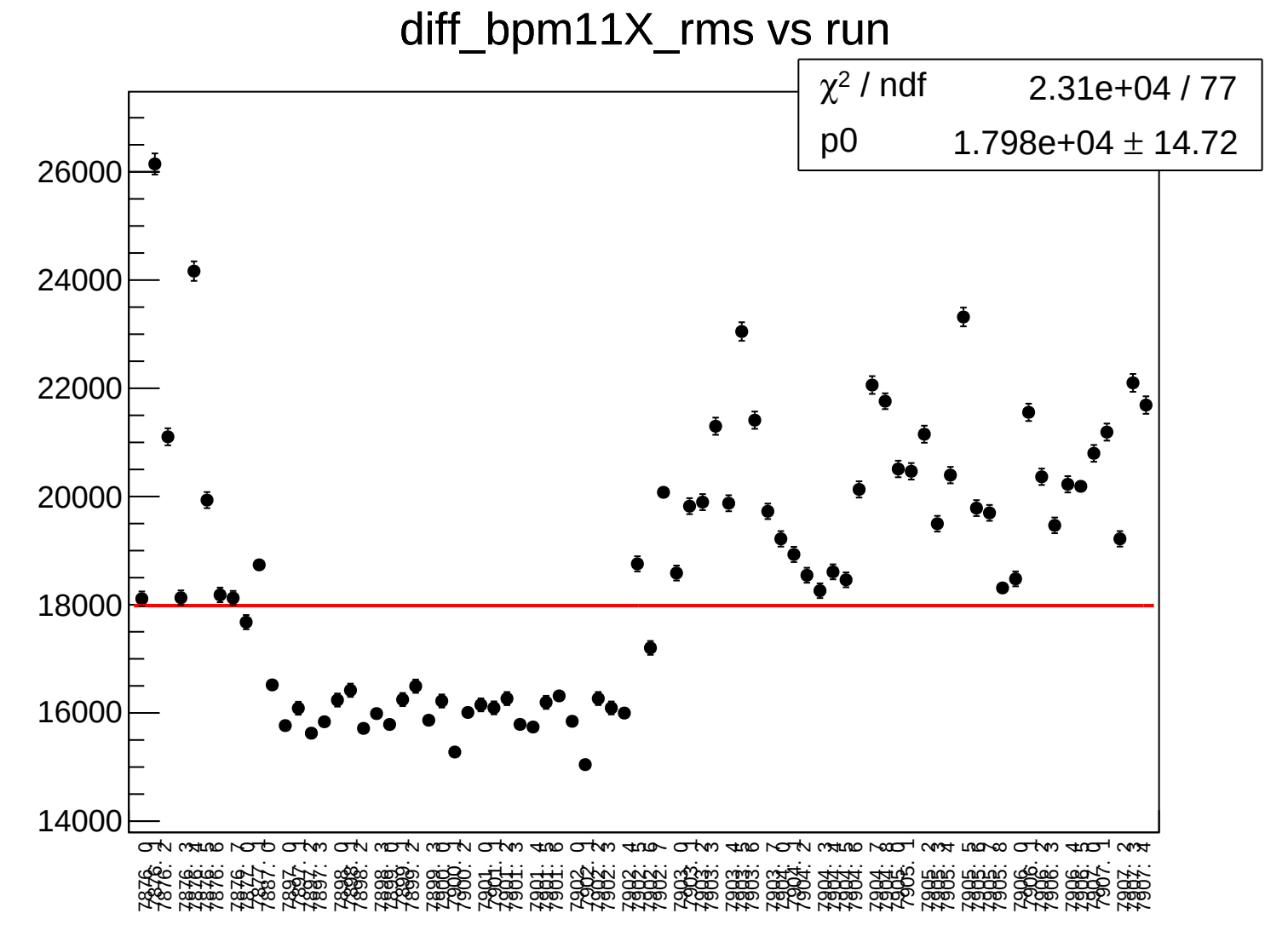

diff_bpm1Y_mean vs run
χ² / ndf 74.78 / 77
p0 −2.206 ± 5.701
pull
Entries 78
Mean 560.9
Std Dev 509.3

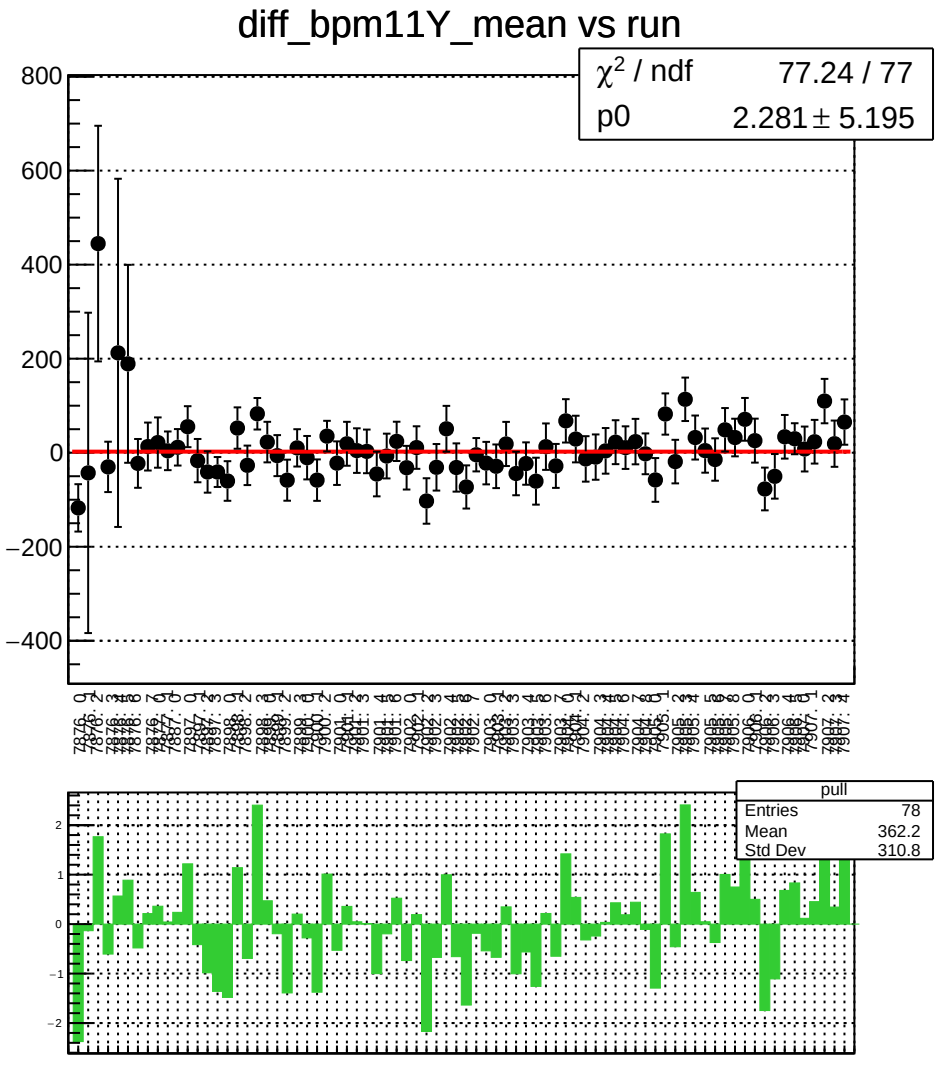

pull1D
Entries 78
Mean −0.007475
Std Dev 0.9791

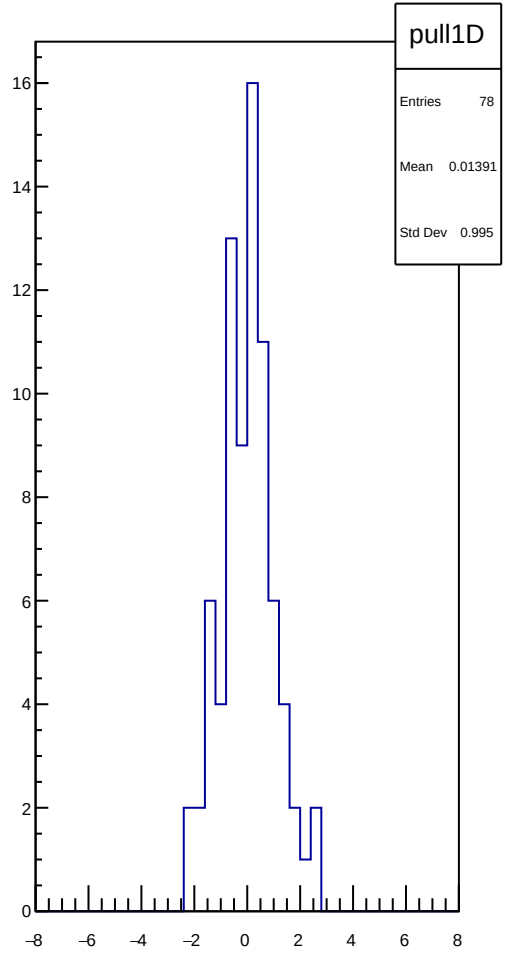

diff_bpm1Y_rms vs run
χ² / ndf 5.357e+04 / 77
p0 4875 ± 4.031
25000
20000
15000
10000
5000

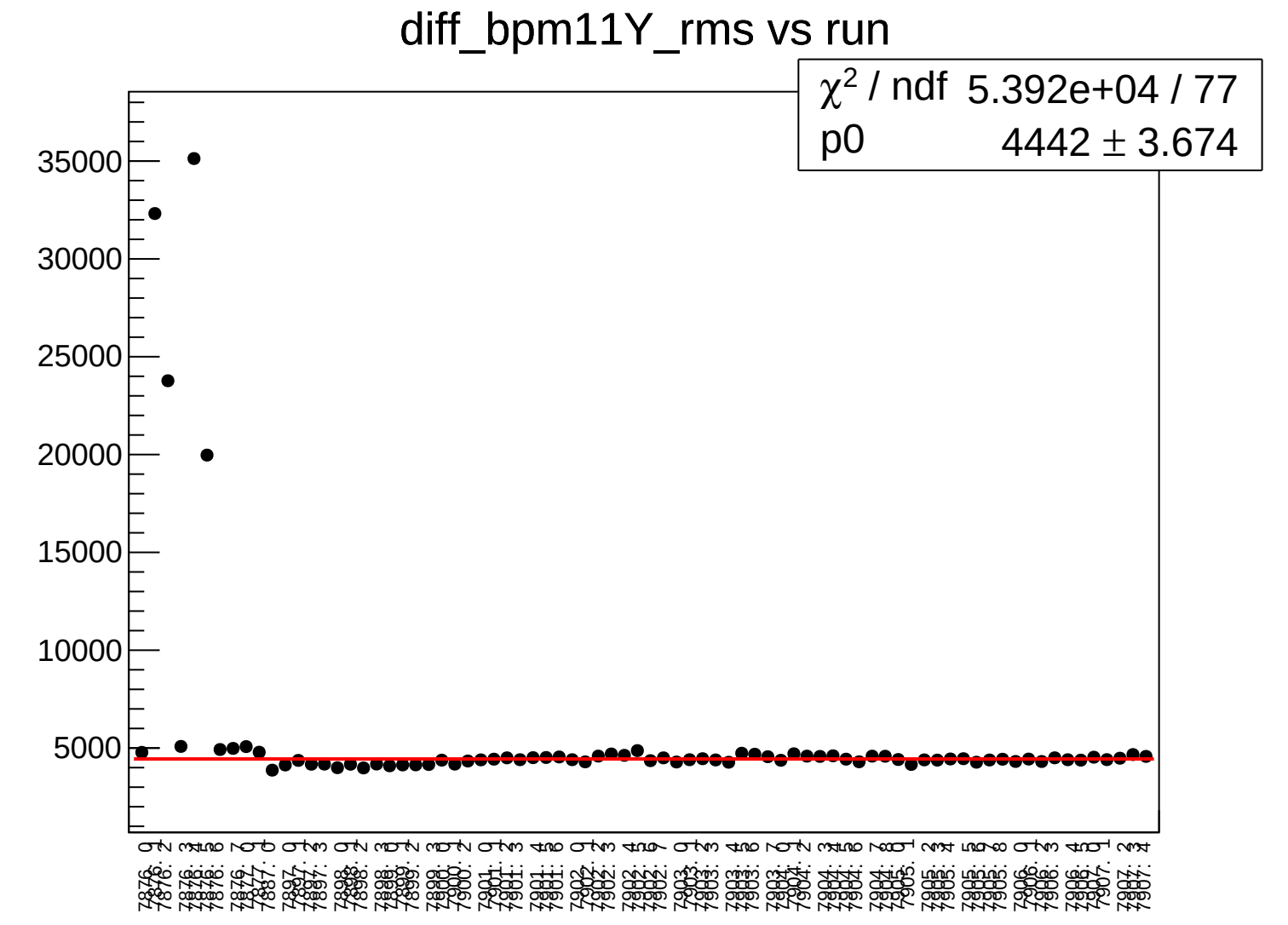

diff_bpm11X_mean vs run
χ^2 / ndf 73.62 / 77
p0 22.74 ± 20.82
pull
Entries 78
Mean −58.6
Std Dev 98.11

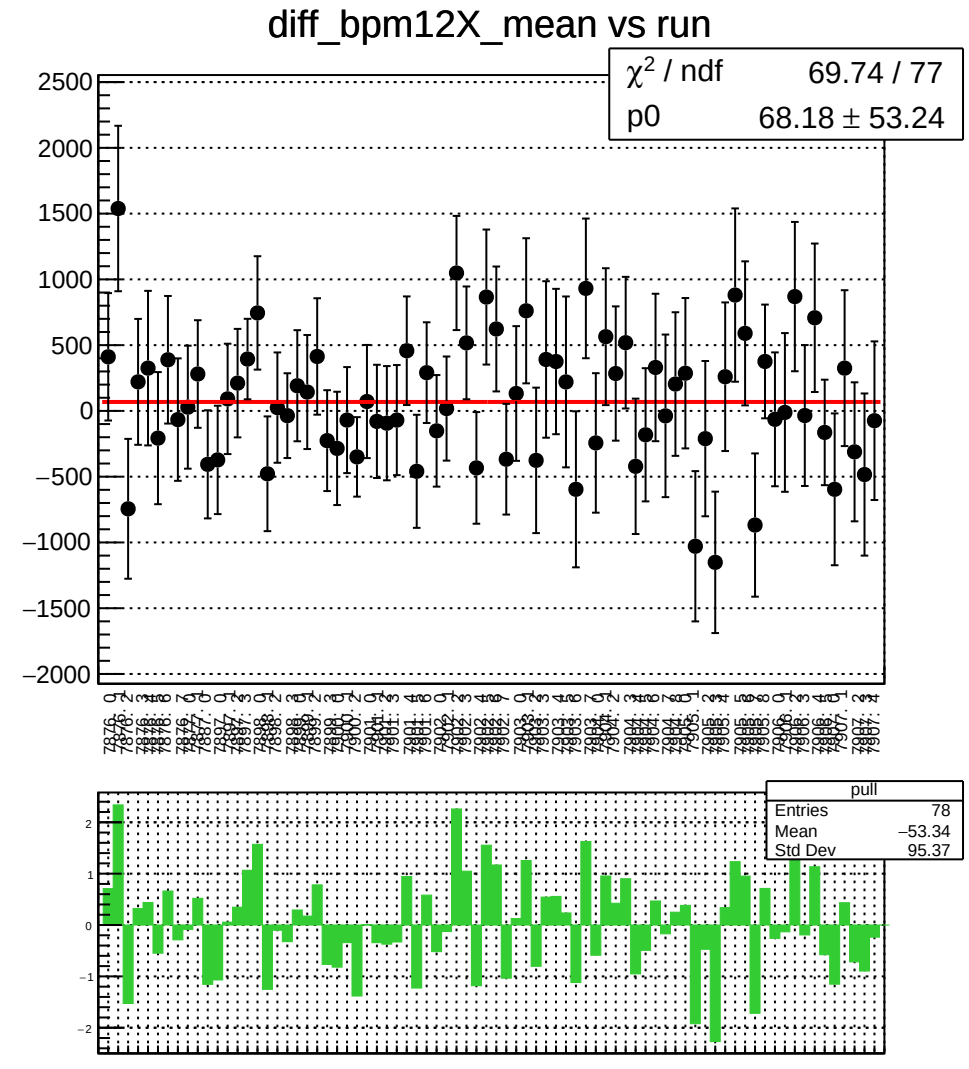

pull1D
Entries 78
Mean 0.01986
Std Dev 0.9713

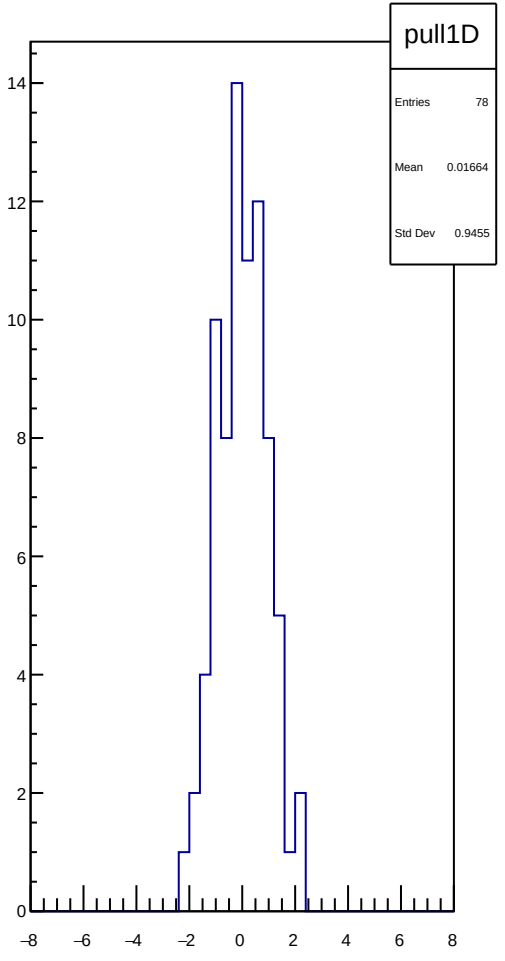

diff_bpm11X_rms vs run
χ² / ndf 2.31e+04 / 77
p0 1.798e+04 ± 14.72
26000
24000
22000
20000
18000
16000
14000

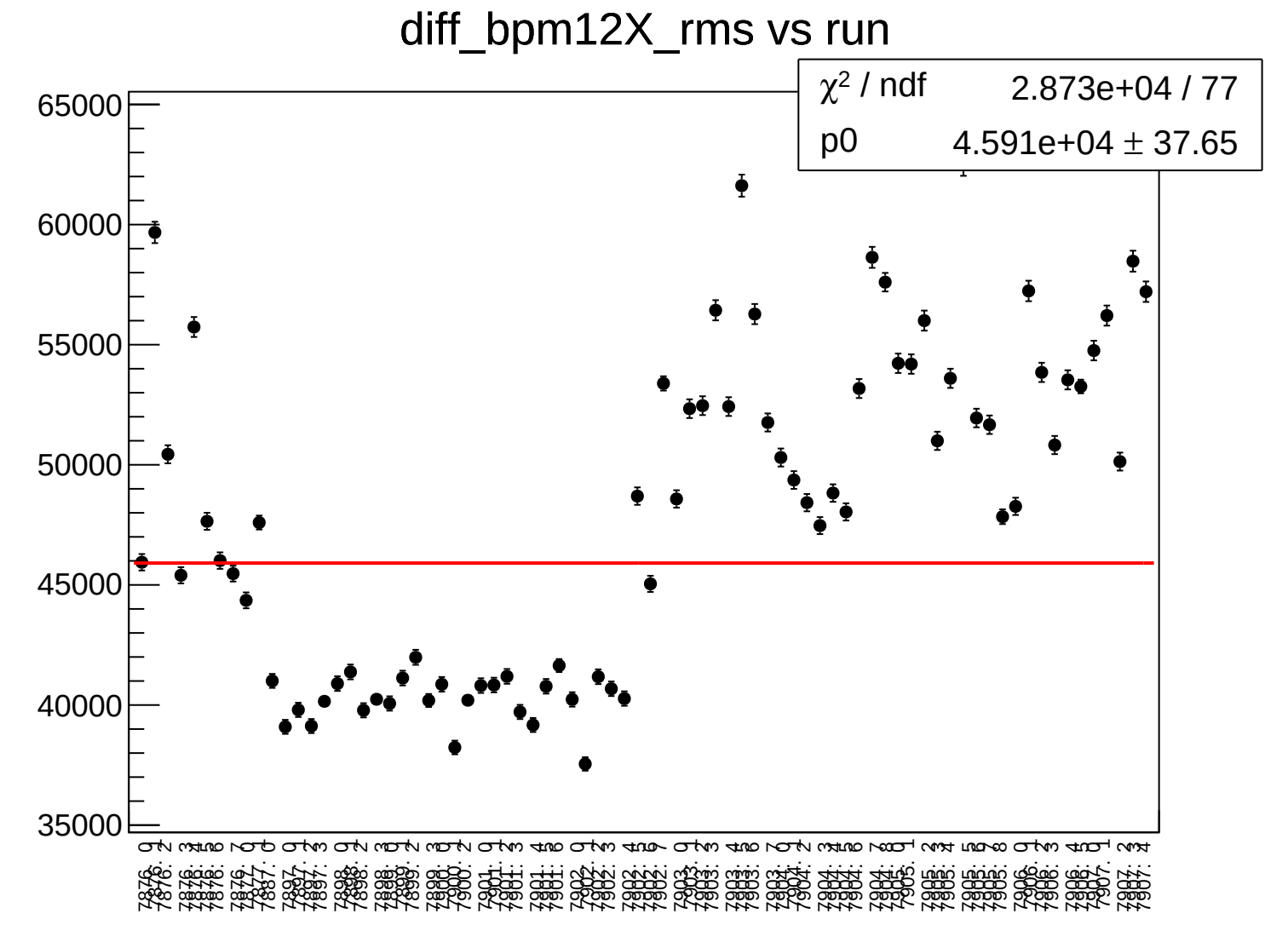

diff_bpm11Y_mean vs run
χ^2 / ndf 77.24 / 77
p0 2.281 ± 5.195
800
600
400
200
0
−200
−400
pull
Entries 78
Mean 362.2
Std Dev 310.8
2
1
0
−1
−2

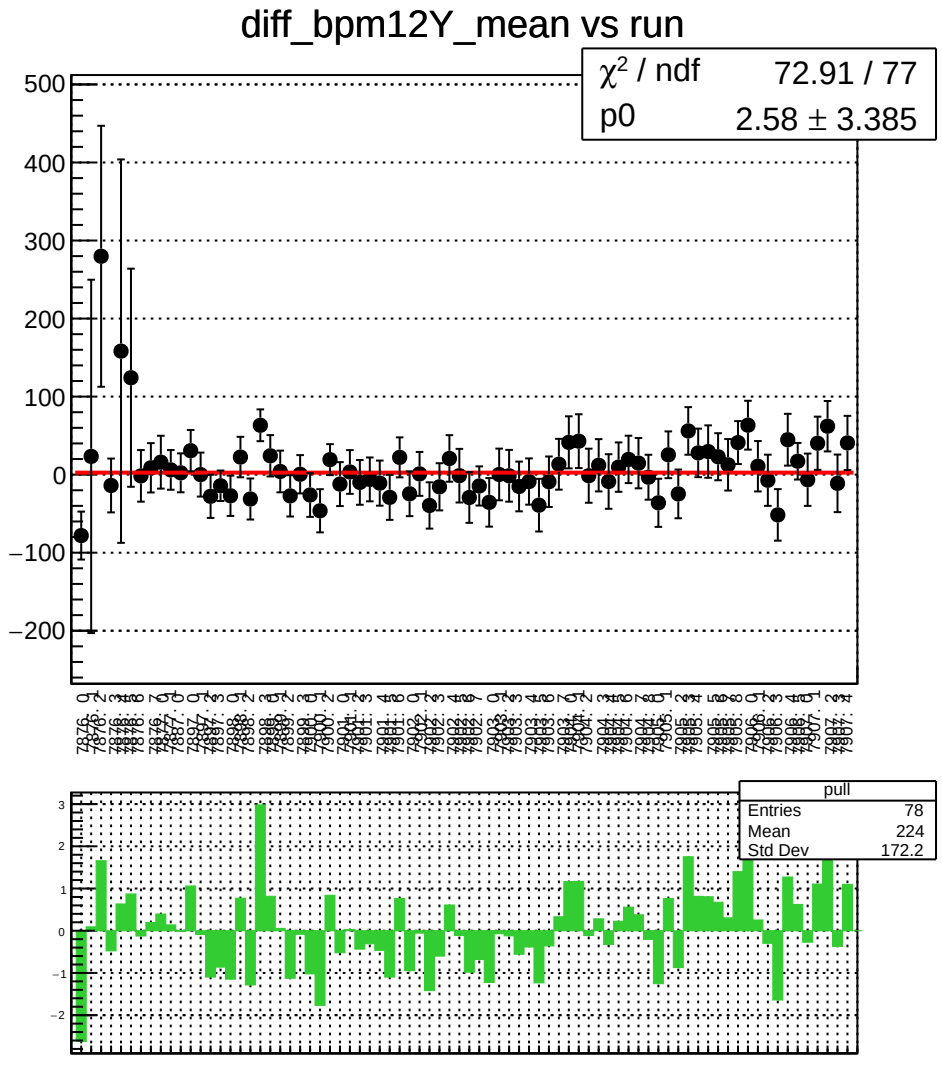

pull1D
Entries 78
Mean 0.01391
Std Dev 0.995
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

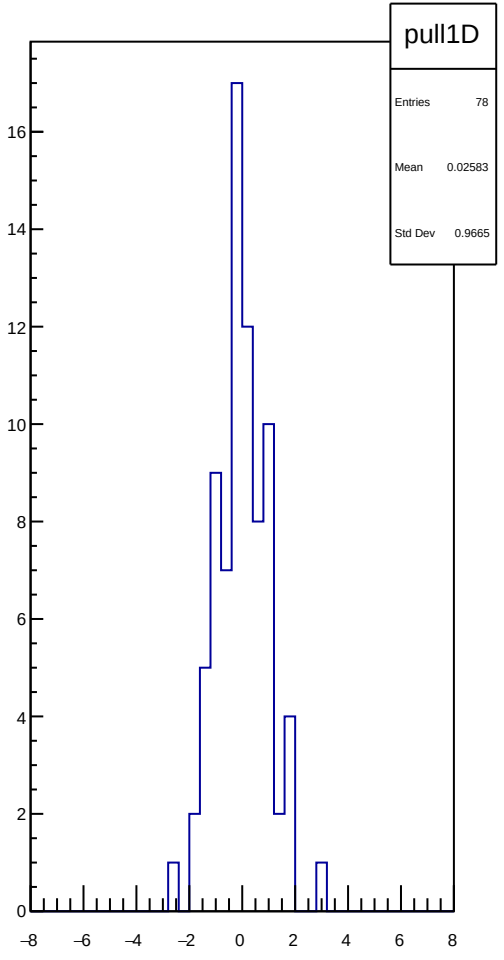

diff_bpm11Y_rms vs run
χ² / ndf 5.392e+04 / 77
p0 4442 ± 3.674
35000
30000
25000
20000
15000
10000
5000

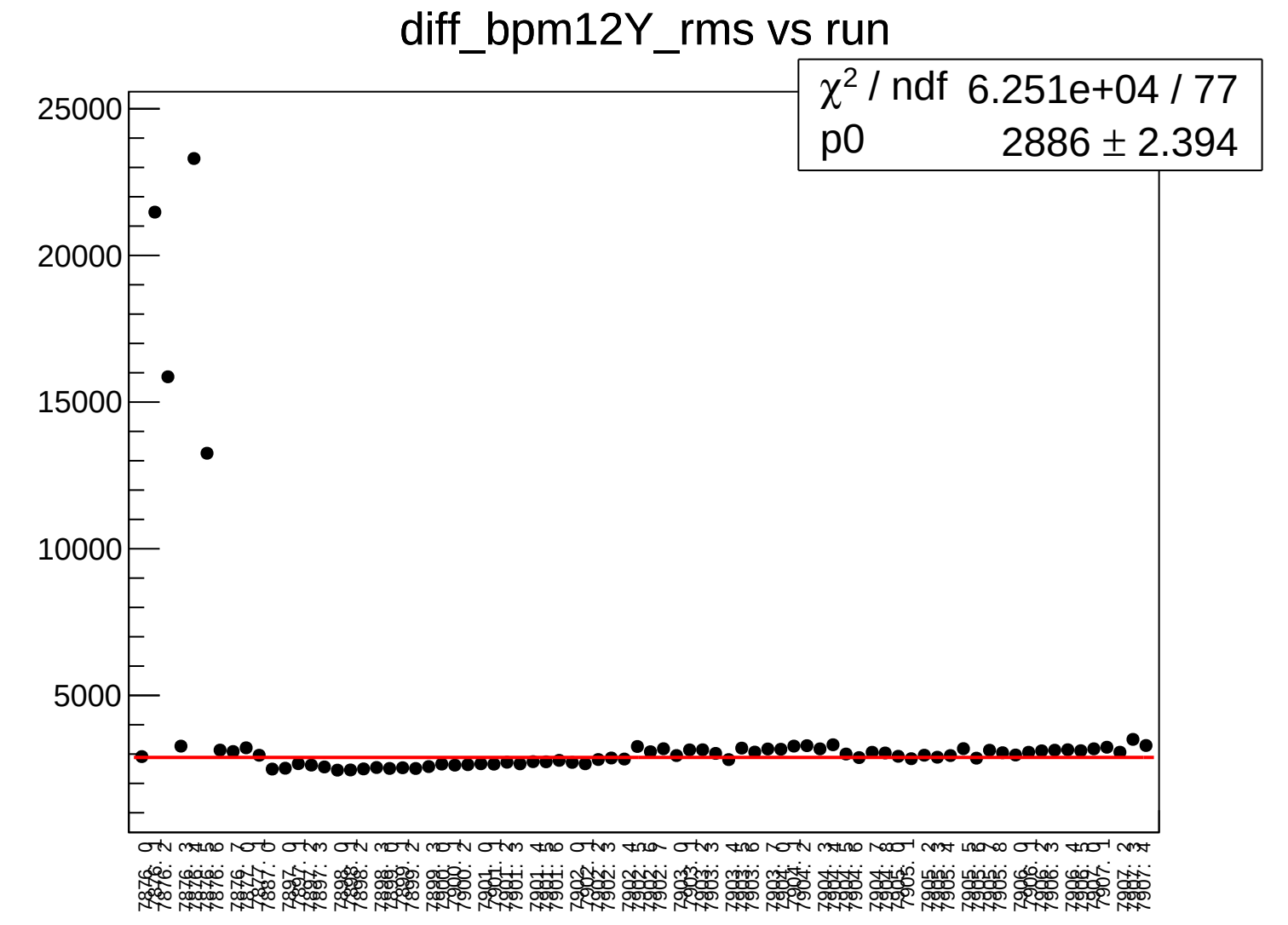

diff_bpm12X_mean vs run
χ^2 / ndf 69.74 / 77
p0 68.18 ± 53.24
pull
Entries 78
Mean −53.34
Std Dev 95.37

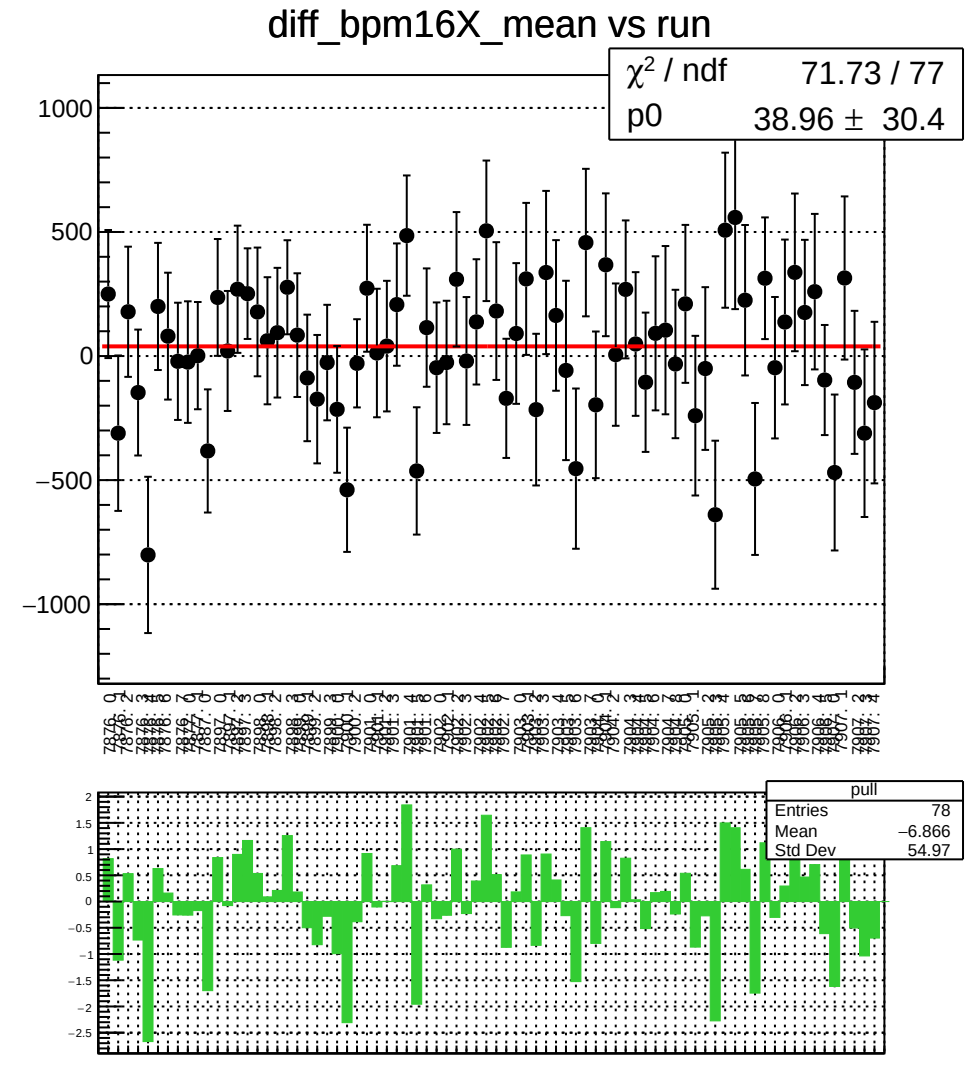

pull1D
Entries 78
Mean 0.01664
Std Dev 0.9455

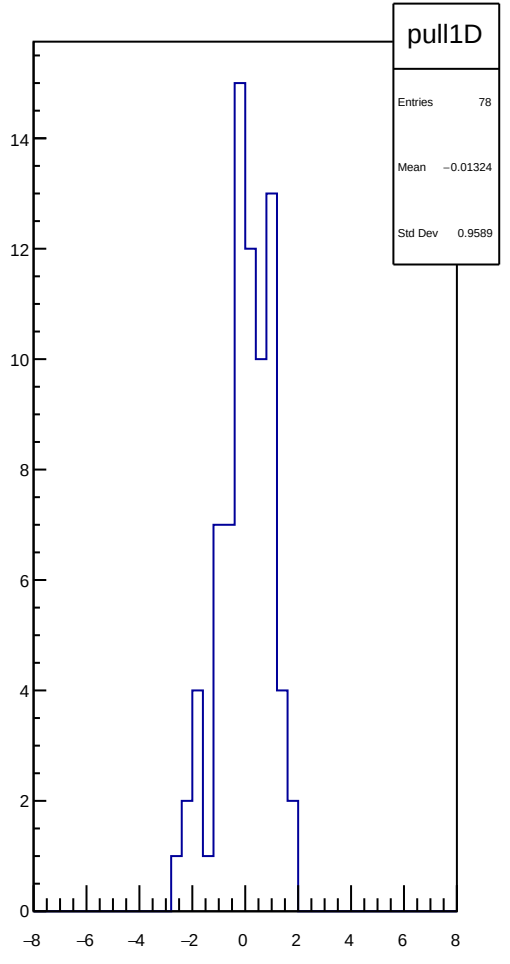

diff_bpm12X_rms vs run
χ² / ndf 2.873e+04 / 77
p0 4.591e+04 ± 37.65
65000
60000
55000
50000
45000
40000
35000

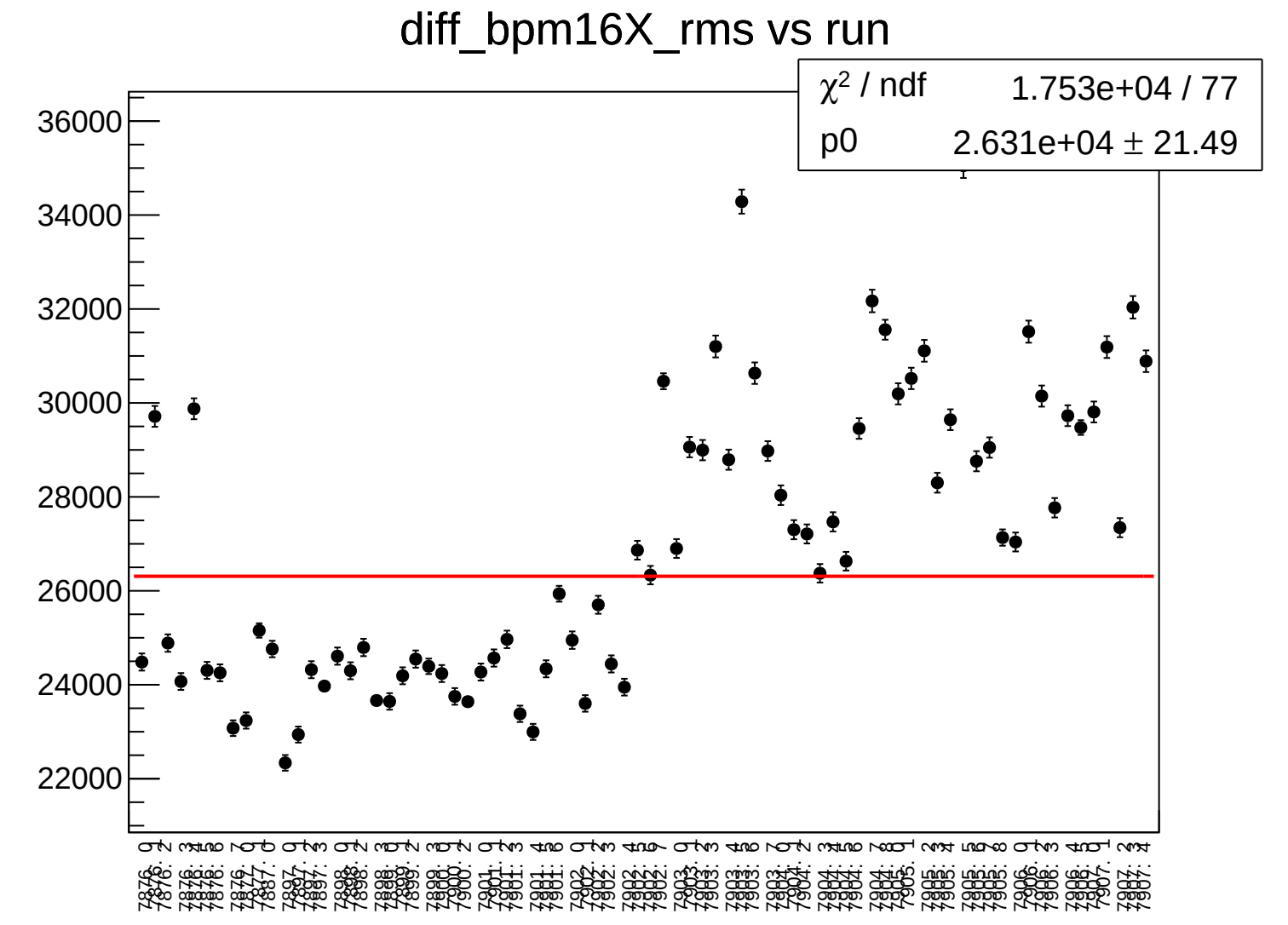

diff_bpm12Y_mean vs run
χ² / ndf 72.91 / 77
p0 2.58 ± 3.385
pull
Entries 78
Mean 224
Std Dev 172.2

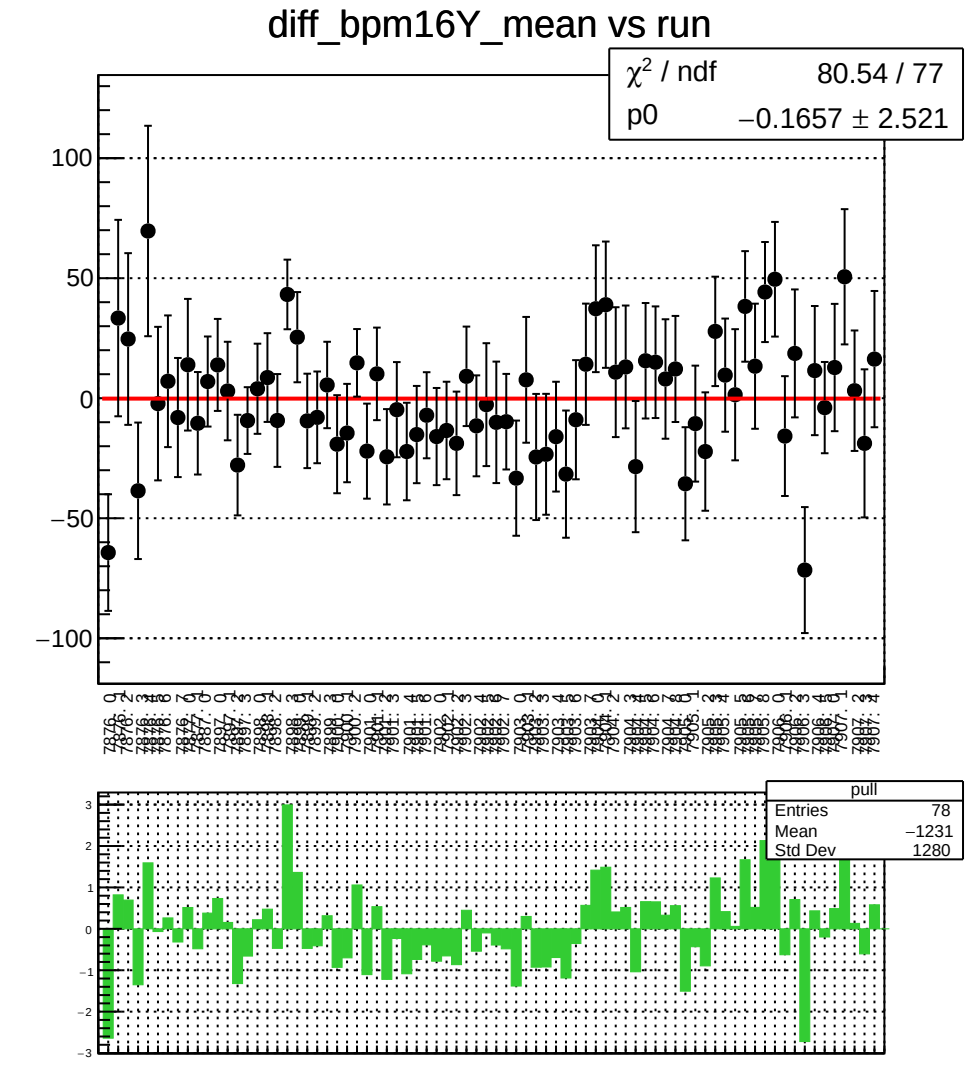

pull1D
Entries 78
Mean 0.02583
Std Dev 0.9665

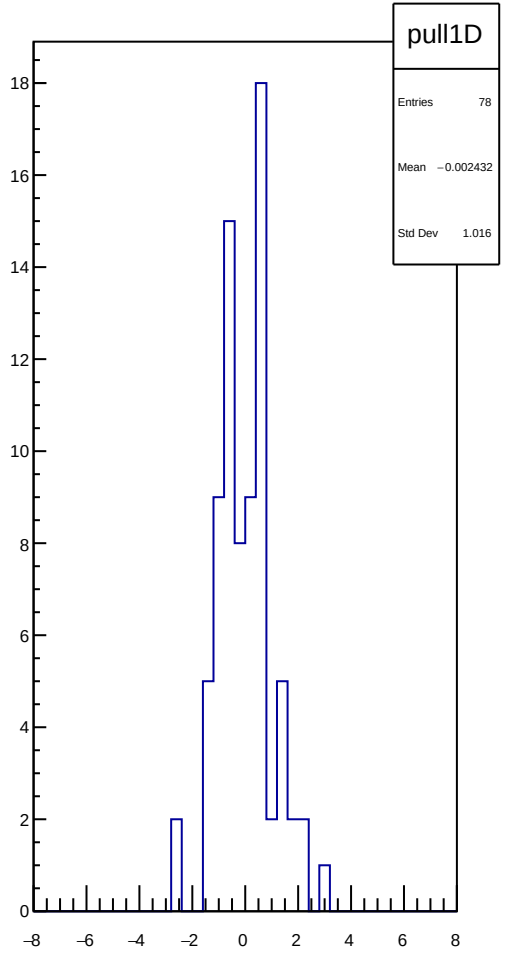

diff_bpm12Y_rms vs run
χ² / ndf 6.251e+04 / 77
p0 2886 ± 2.394
25000
20000
15000
10000
5000

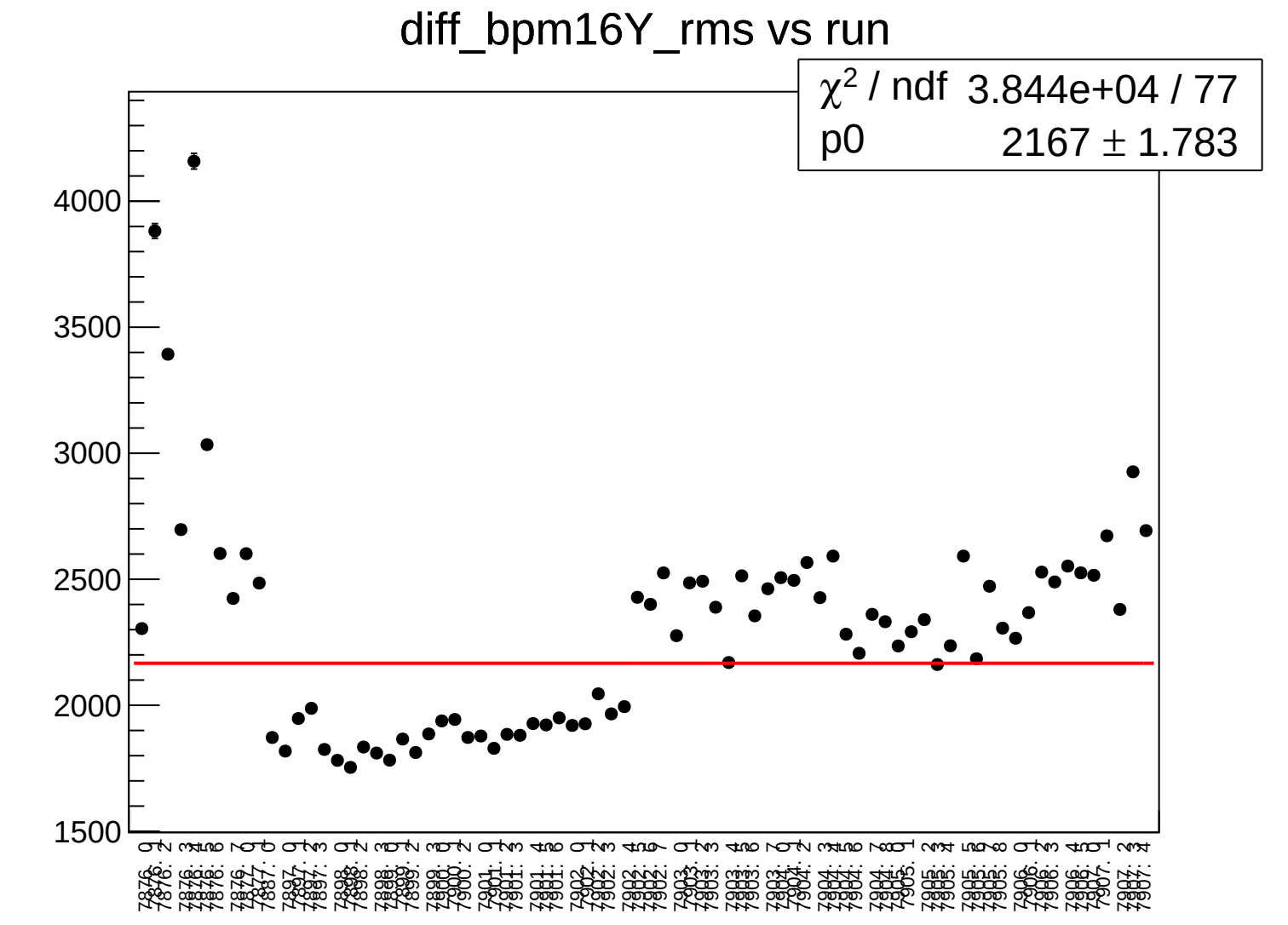

diff_bpm16X_mean vs run
χ² / ndf 71.73 / 77
p0 38.96 ± 30.4
1000
500
0
−500
−1000
pull
Entries 78
Mean −6.866
Std Dev 54.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

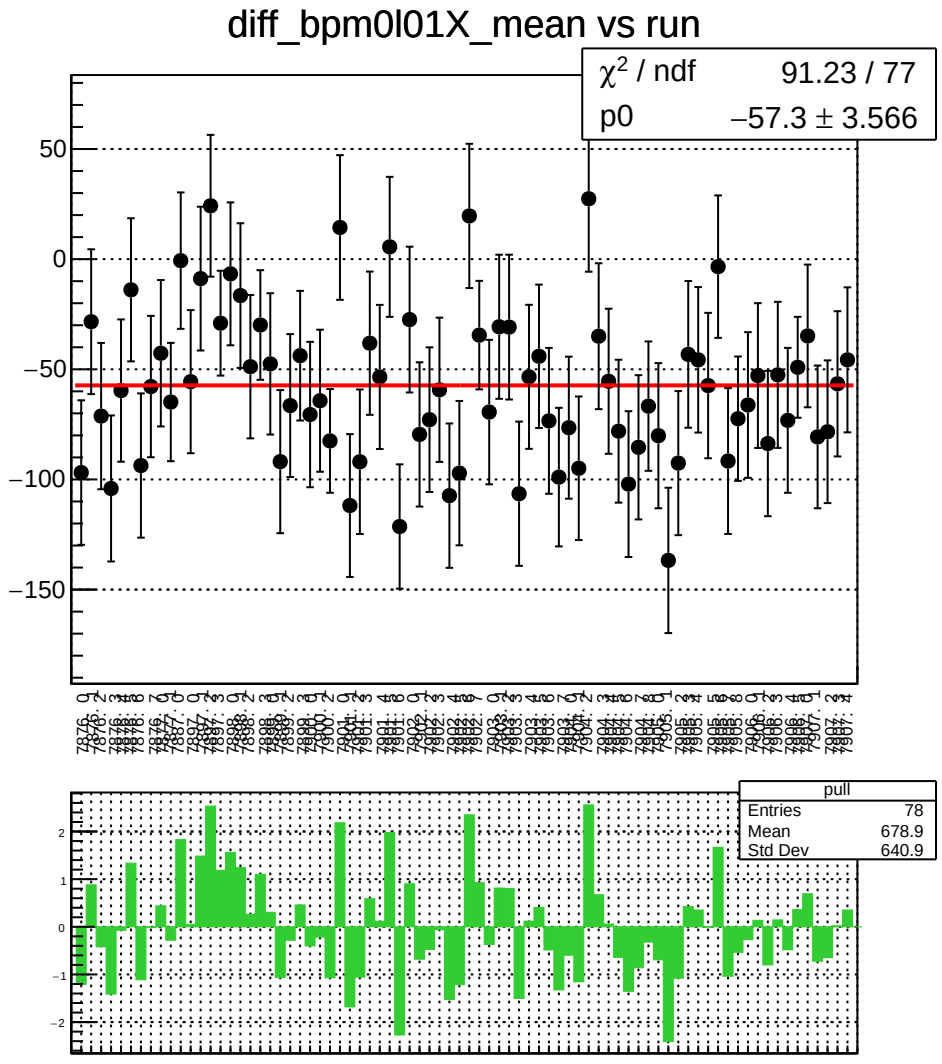

pull1D
Entries 78
Mean −0.01324
Std Dev 0.9589
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

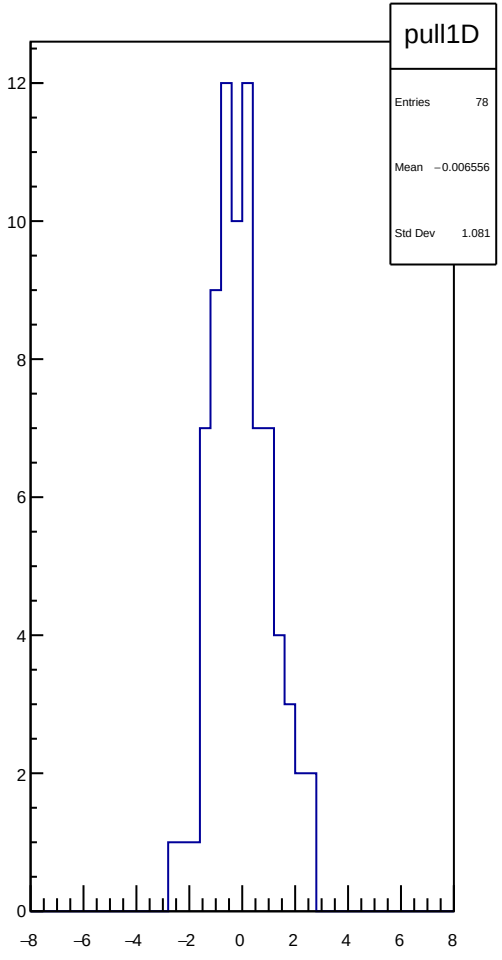

diff_bpm16X_rms vs run
χ² / ndf 1.753e+04 / 77
p0 2.631e+04 ± 21.49
36000
34000
32000
30000
28000
26000
24000
22000

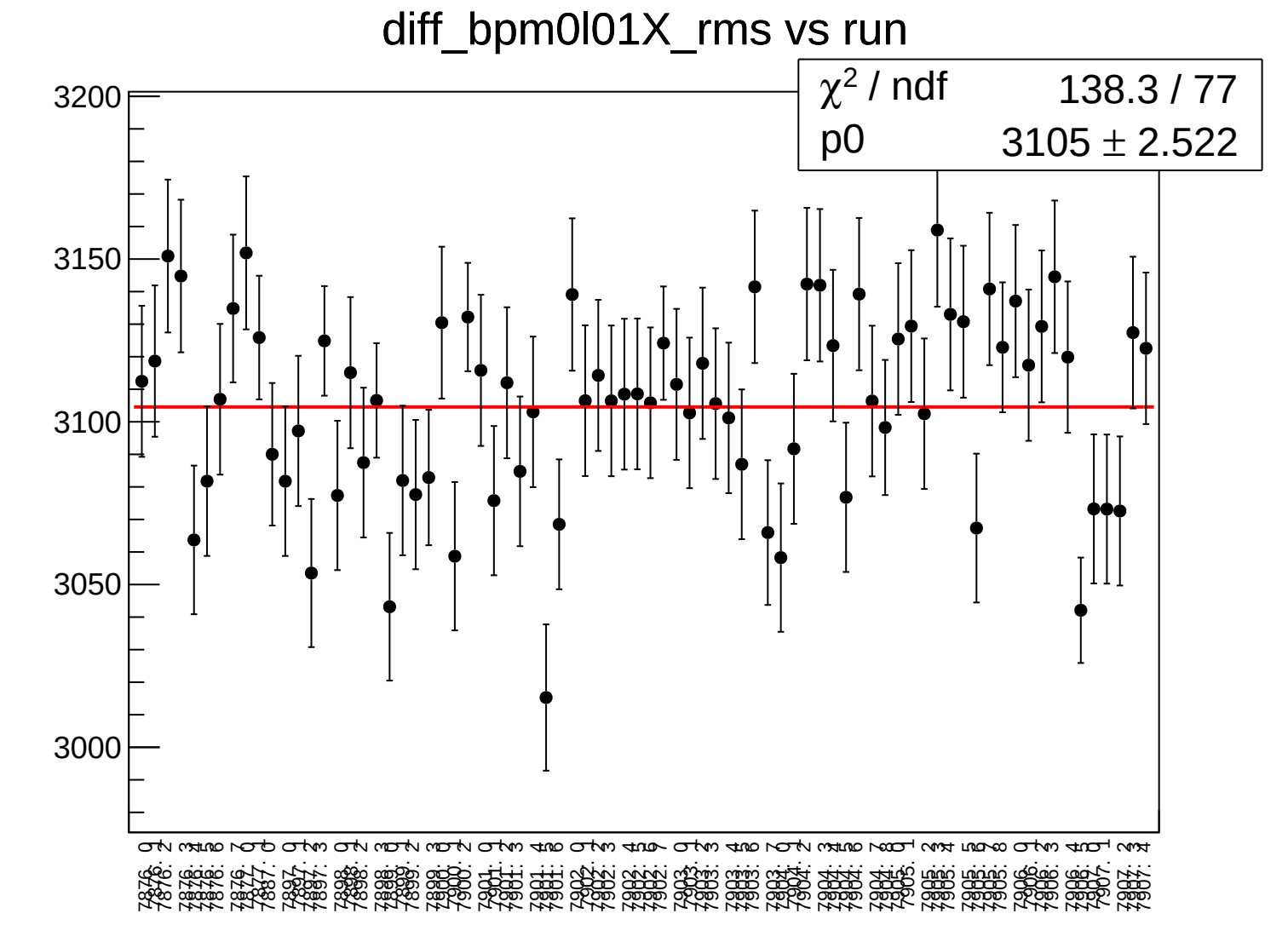

diff_bpm16Y_mean vs run
χ² / ndf 80.54 / 77
p0 −0.1657 ± 2.521
100
50
0
−50
−100
pull
Entries 78
Mean −1231
Std Dev 1280
3
2
1
0
−1
−2
−3

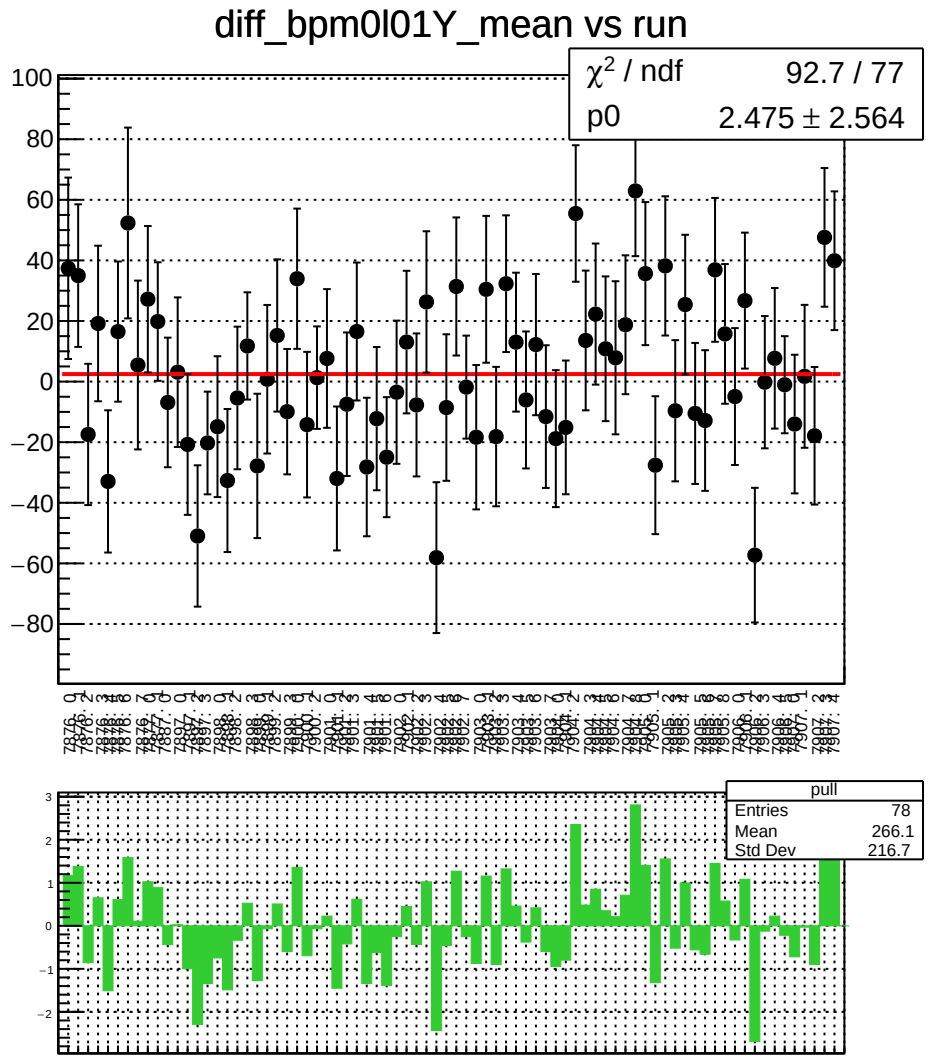

pull1D
Entries 78
Mean −0.002432
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

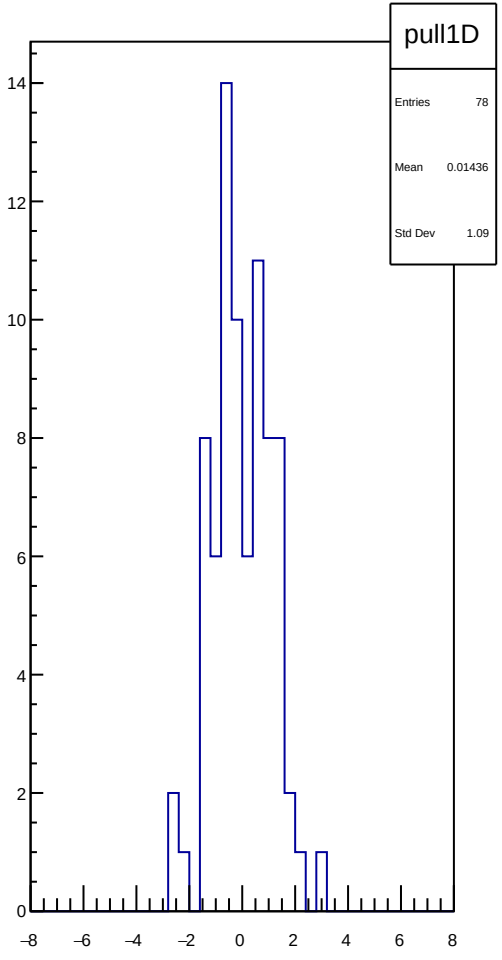

diff_bpm16Y_rms vs run
χ² / ndf 3.844e+04 / 77
p0 2167 ± 1.783
4000
3500
3000
2500
2000
1500

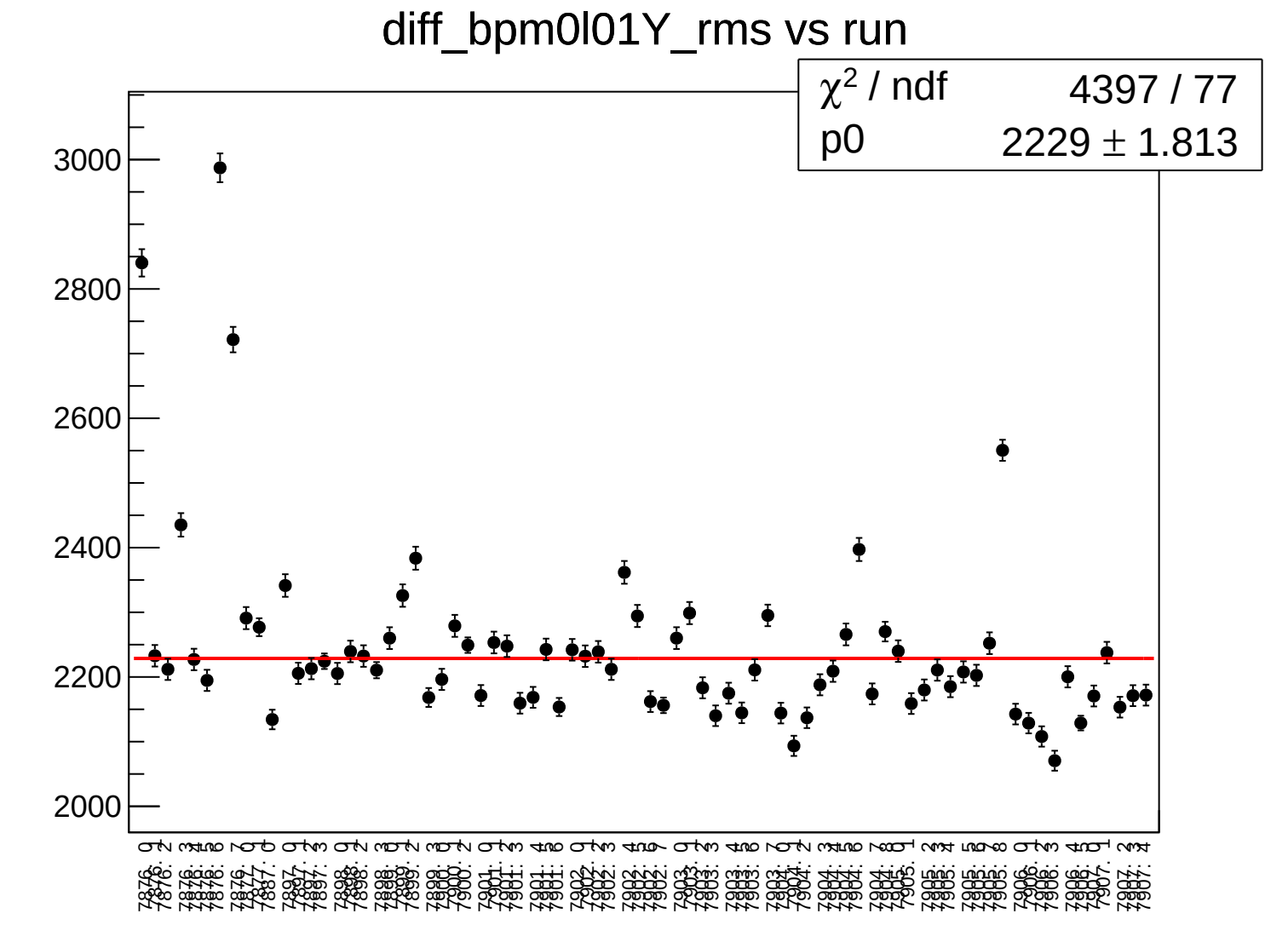

diff_bpm0l01X_mean vs run
χ² / ndf 91.23 / 77
p0 −57.3 ± 3.566
pull
Entries 78
Mean 678.9
Std Dev 640.9

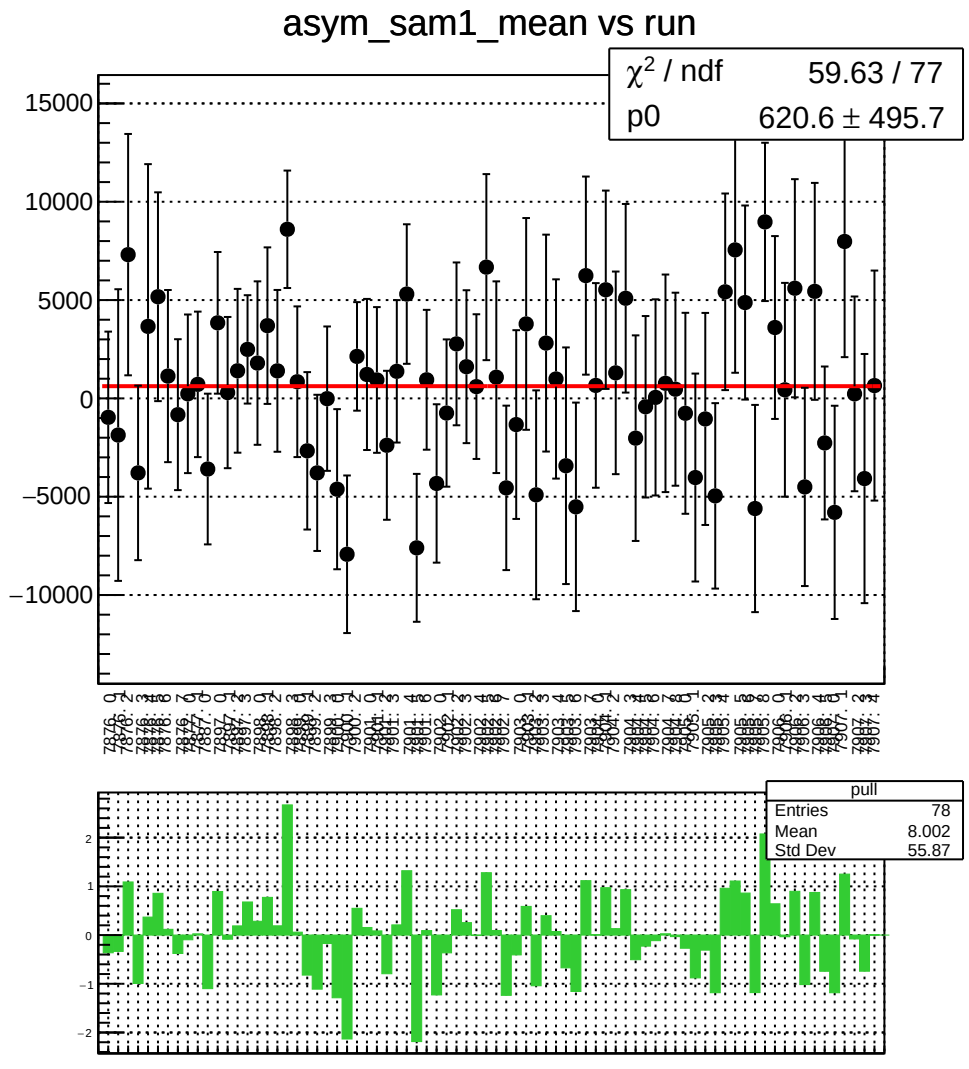

pull1D
Entries 78
Mean −0.006556
Std Dev 1.081

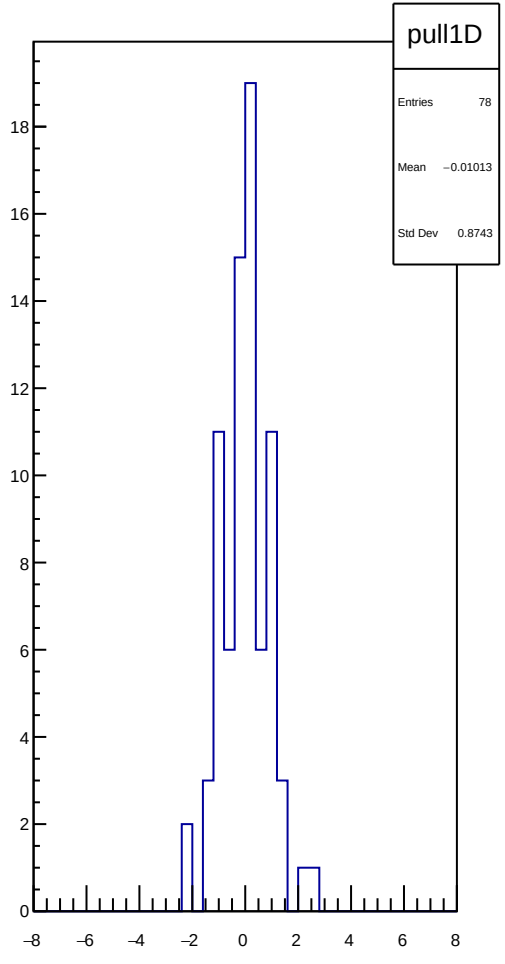

diff_bpm0l01X_rms vs run
χ² / ndf 138.3 / 77
p0 3105 ± 2.522
3200
3150
3100
3050
3000

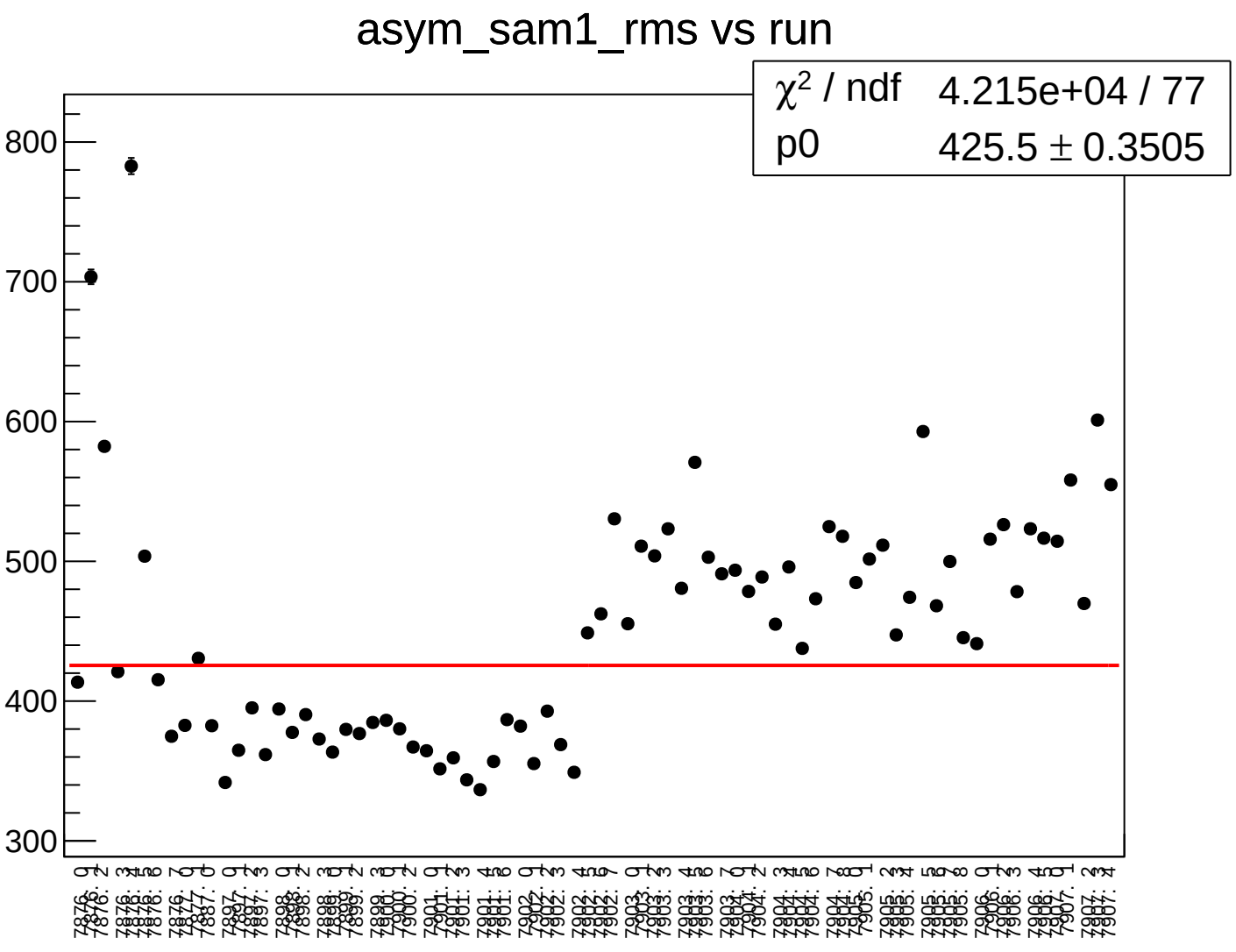

diff_bpm0l01Y_mean vs run
χ² / ndf 92.7 / 77
p0 2.475 ± 2.564
pull
Entries 78
Mean 266.1
Std Dev 216.7

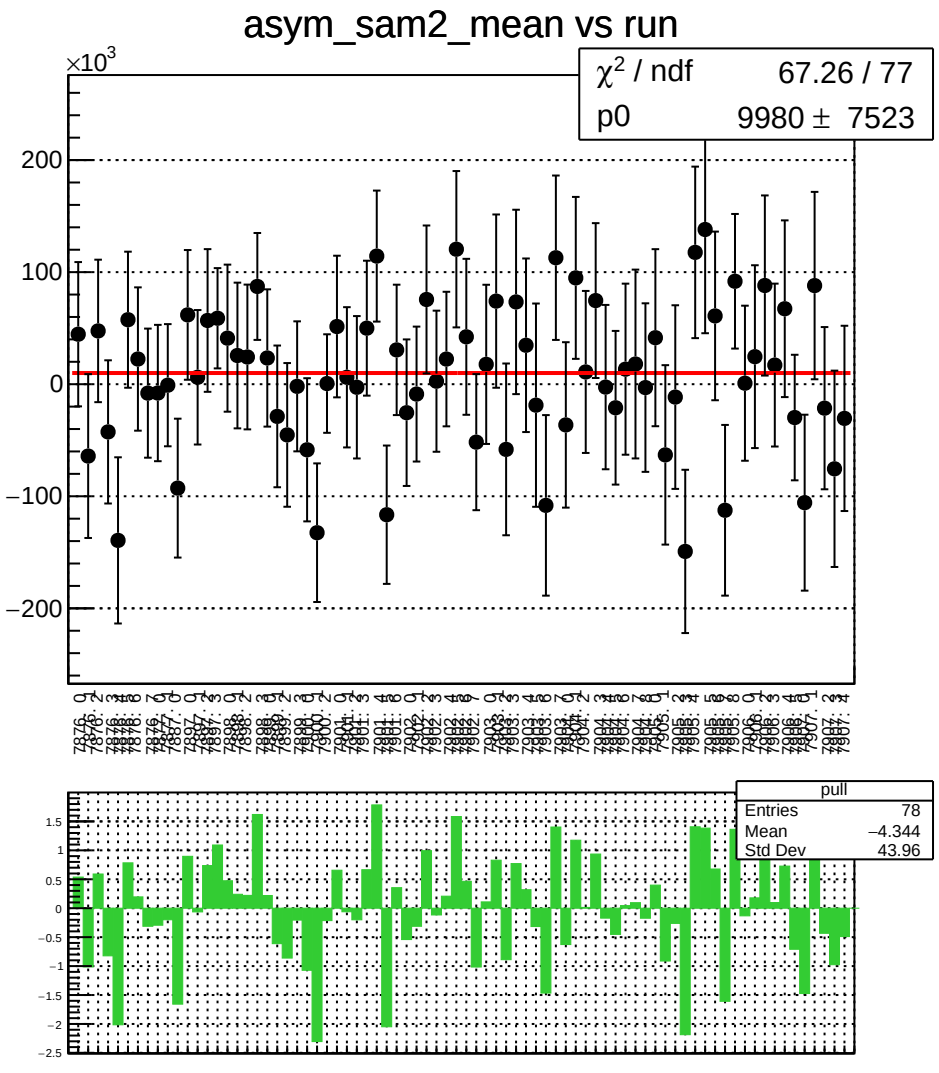

pull1D
Entries 78
Mean 0.01436
Std Dev 1.09

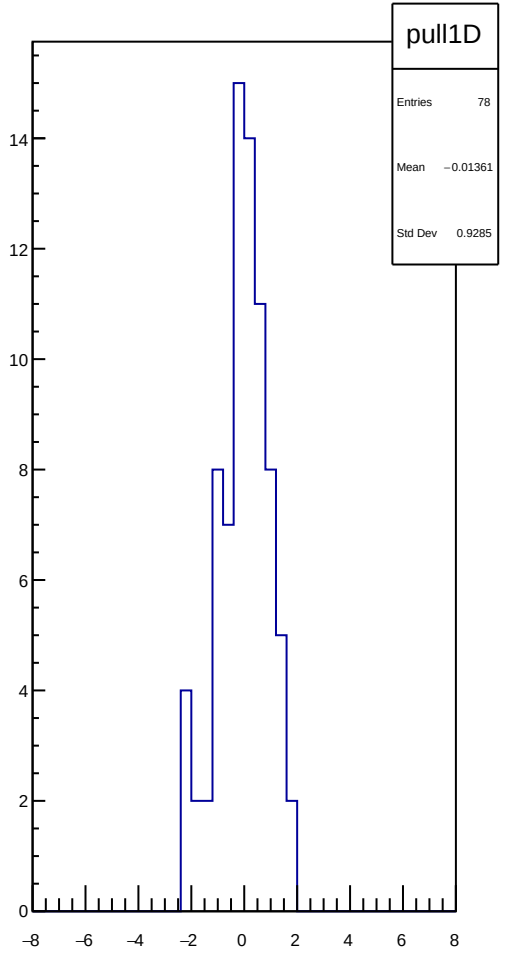

diff_bpm0l01Y_rms vs run
χ² / ndf 4397 / 77
p0 2229 ± 1.813
3000
2800
2600
2400
2200
2000

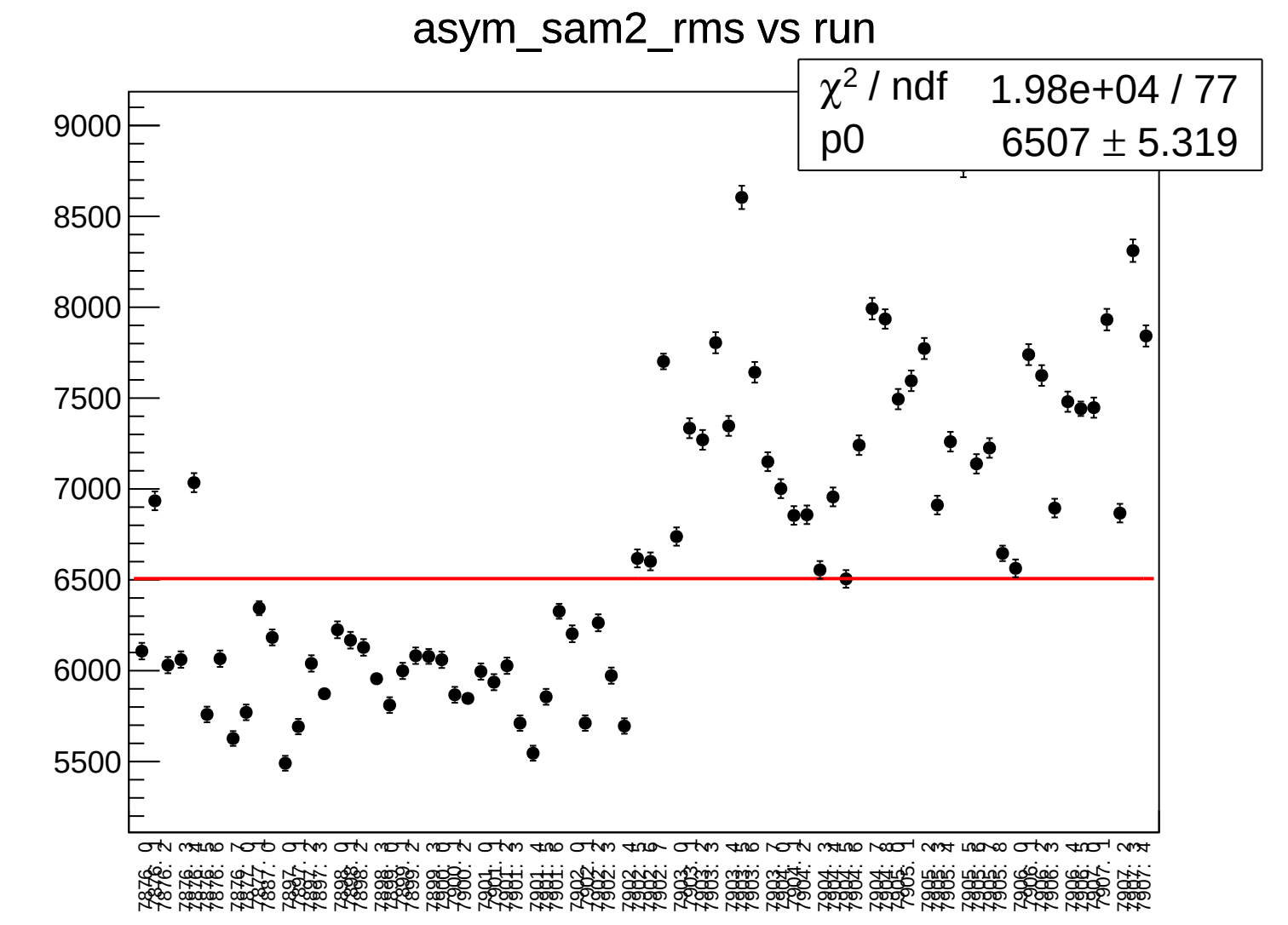

asym_sam1_mean vs run
χ² / ndf 59.63 / 77
p0 620.6 ± 495.7
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean 8.002
Std Dev 55.87
2
1
0
−1
−2

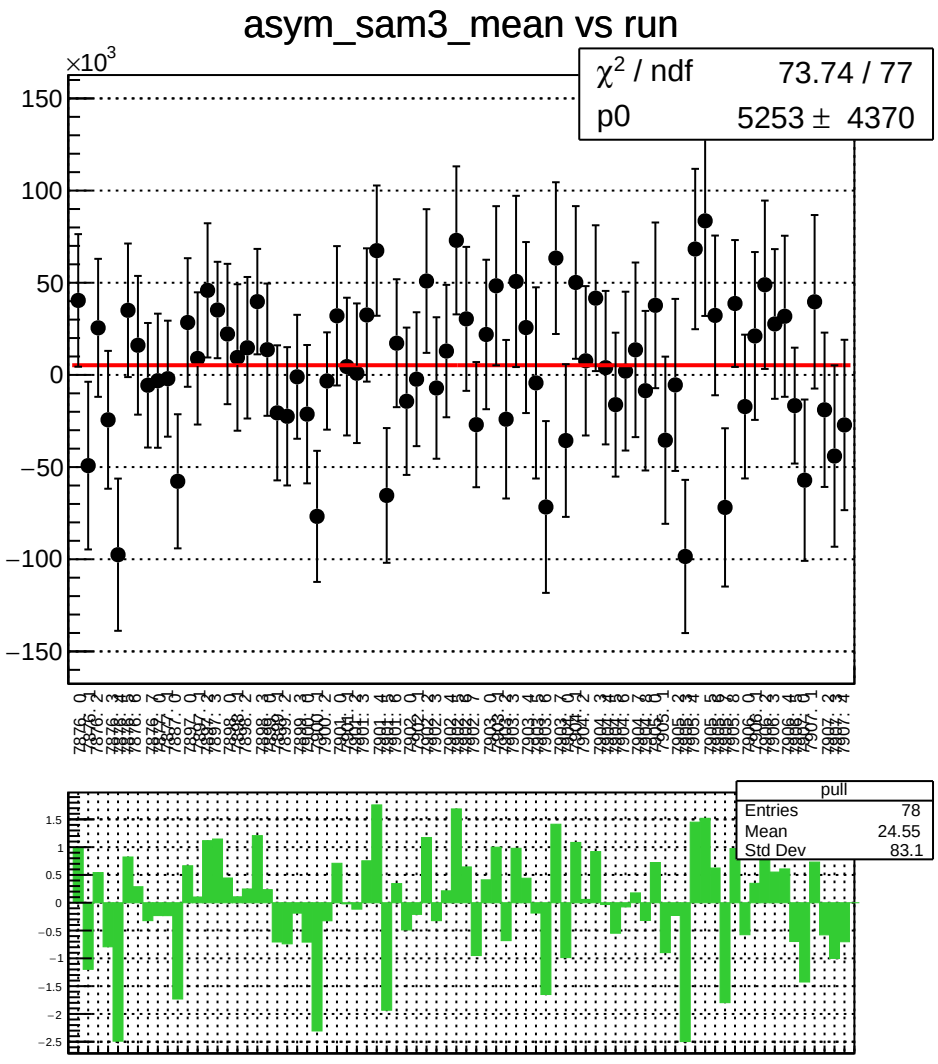

pull1D
Entries 78
Mean −0.01013
Std Dev 0.8743
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

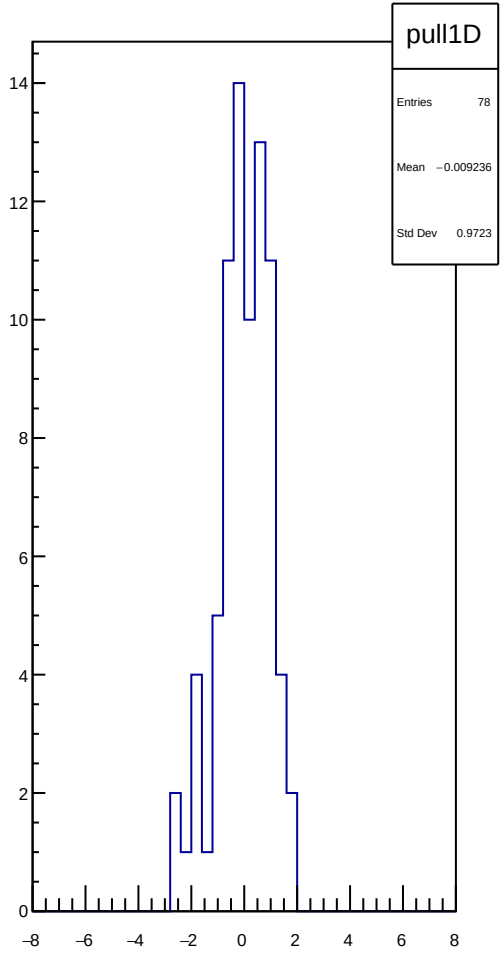

asym_sam1_rms vs run
χ² / ndf 4.215e+04 / 77
p0 425.5 ± 0.3505
800
700
600
500
400
300

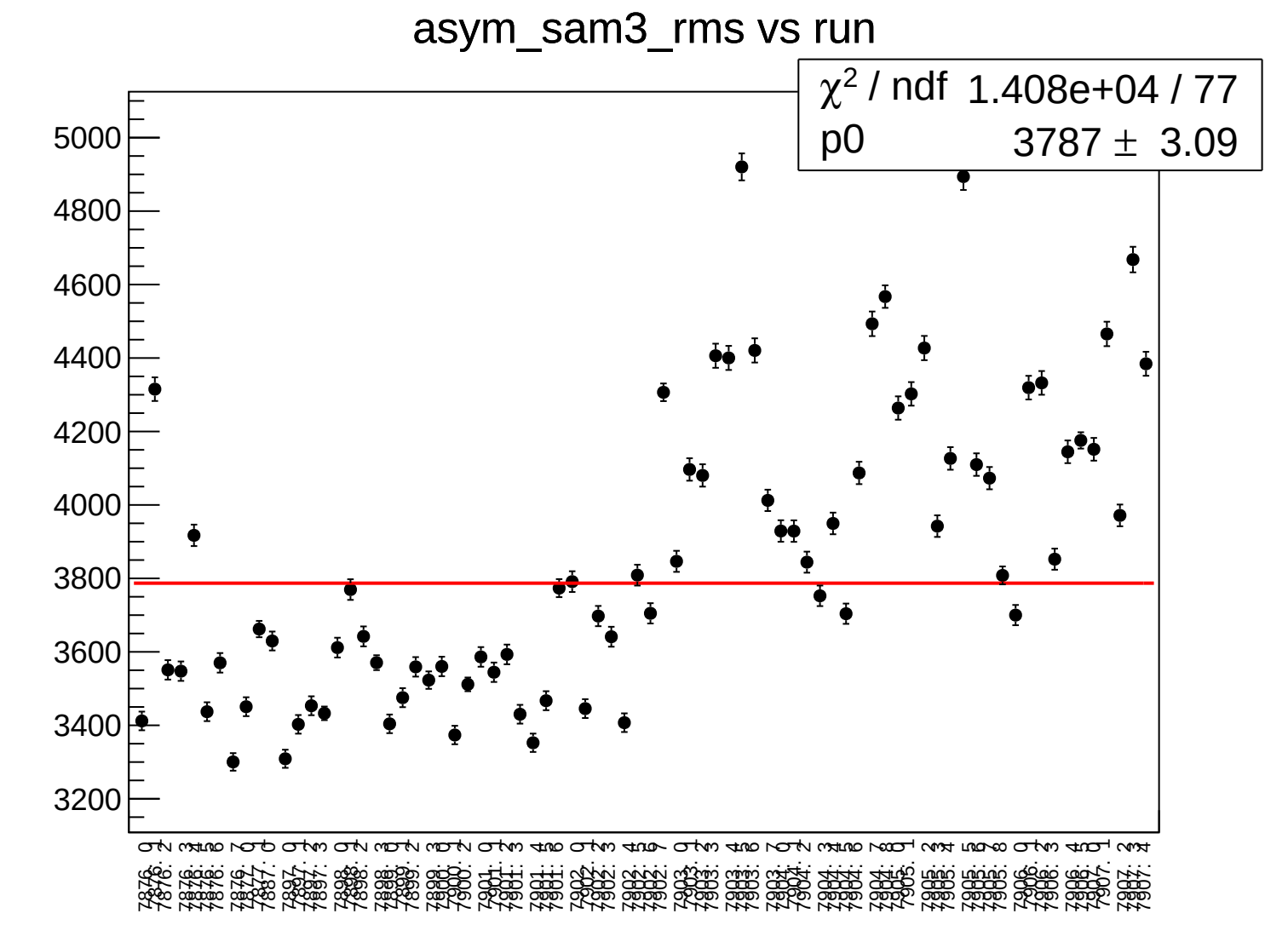

asym_sam2_mean vs run
×10^3
χ² / ndf 67.26 / 77
p0 9980 ± 7523
200
100
0
−100
−200
pull
Entries 78
Mean −4.344
Std Dev 43.96
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

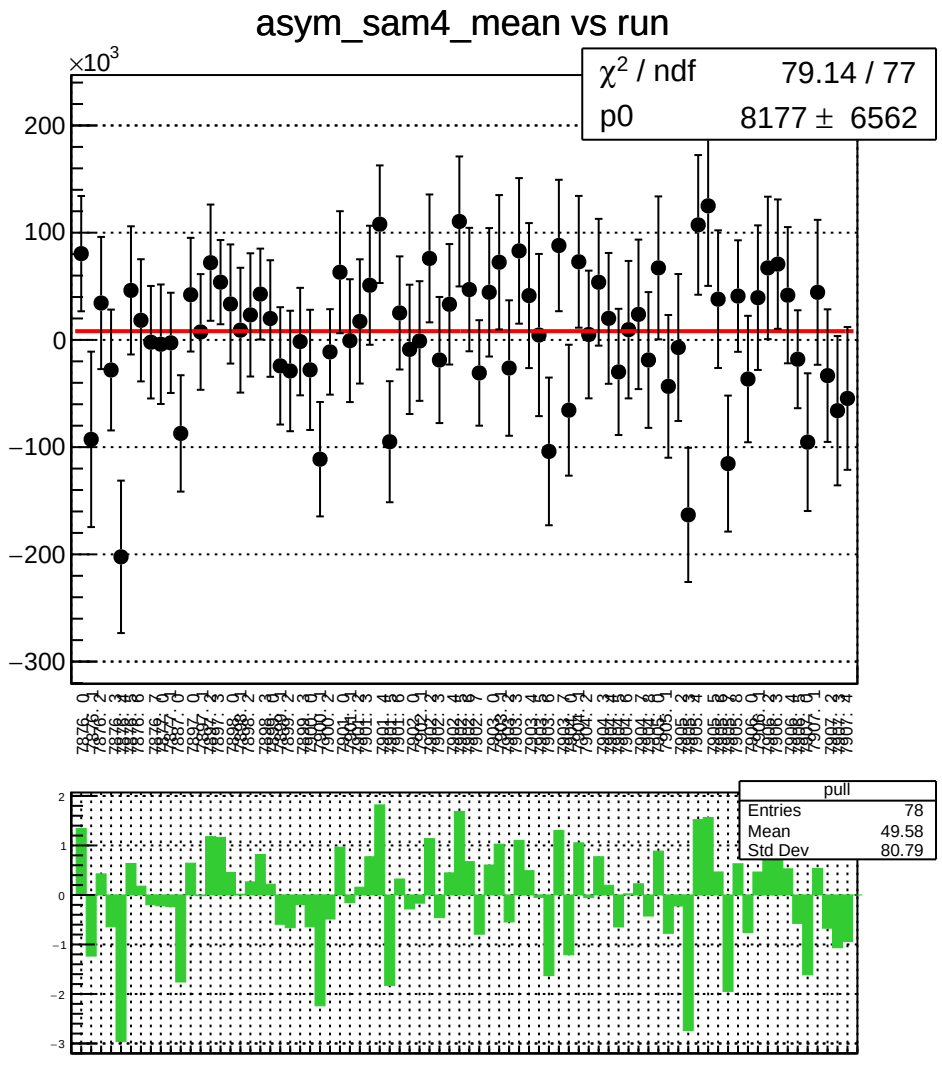

pull1D
Entries 78
Mean −0.01361
Std Dev 0.9285
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

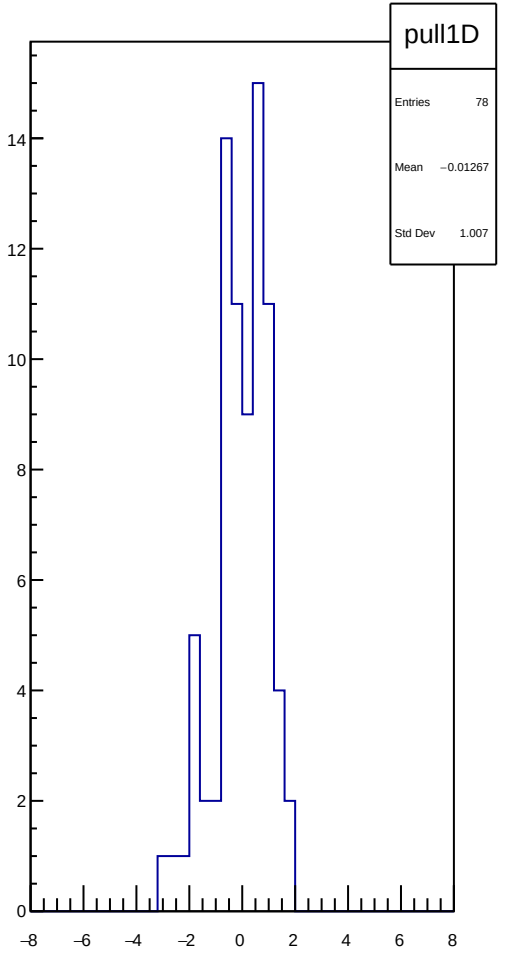

asym_sam2_rms vs run
χ² / ndf 1.98e+04 / 77
p0 6507 ± 5.319
9000
8500
8000
7500
7000
6500
6000
5500

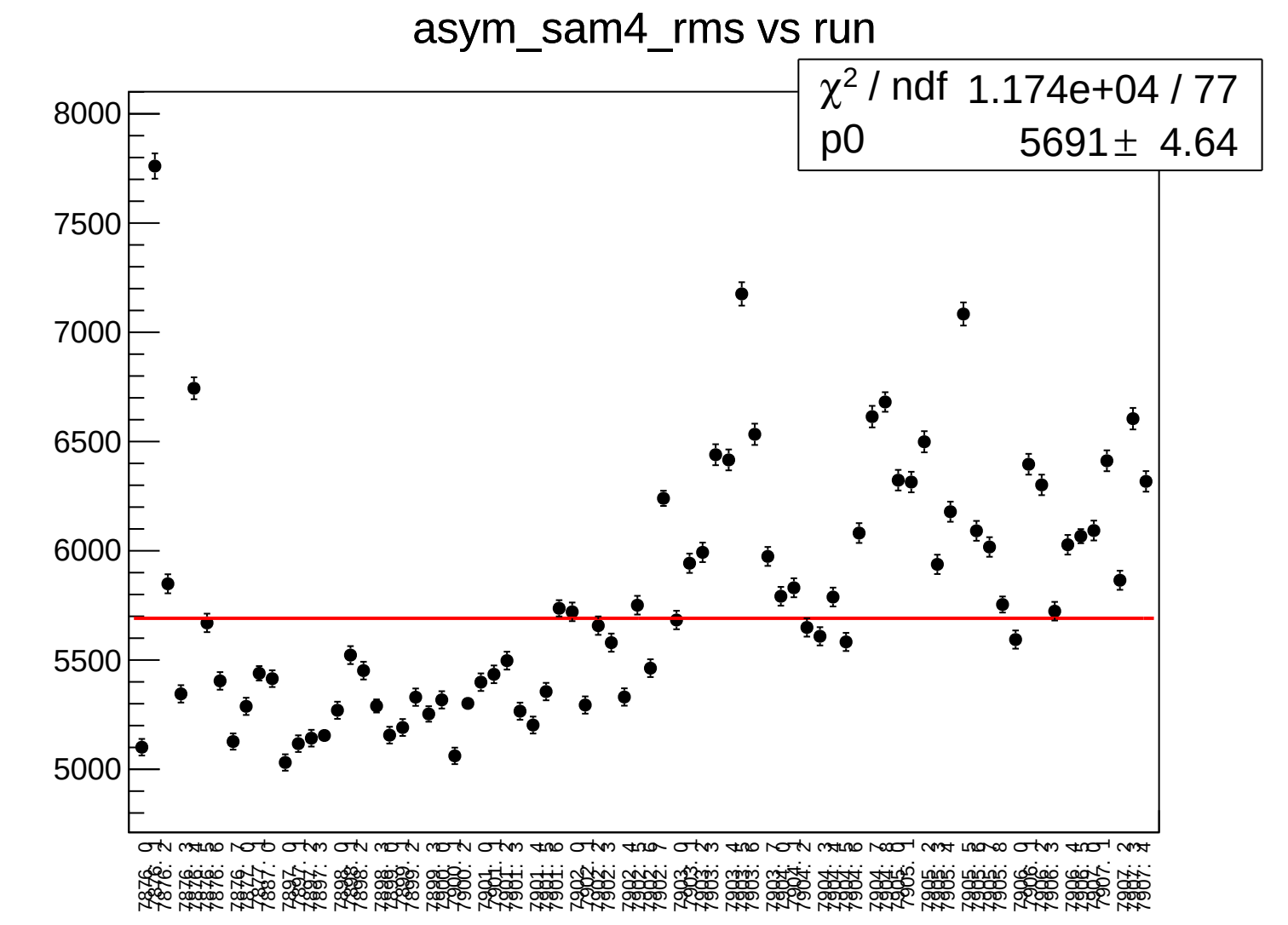

asym_sam3_mean vs run
×10^3
χ² / ndf 73.74 / 77
p0 5253 ± 4370
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 24.55
Std Dev 83.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

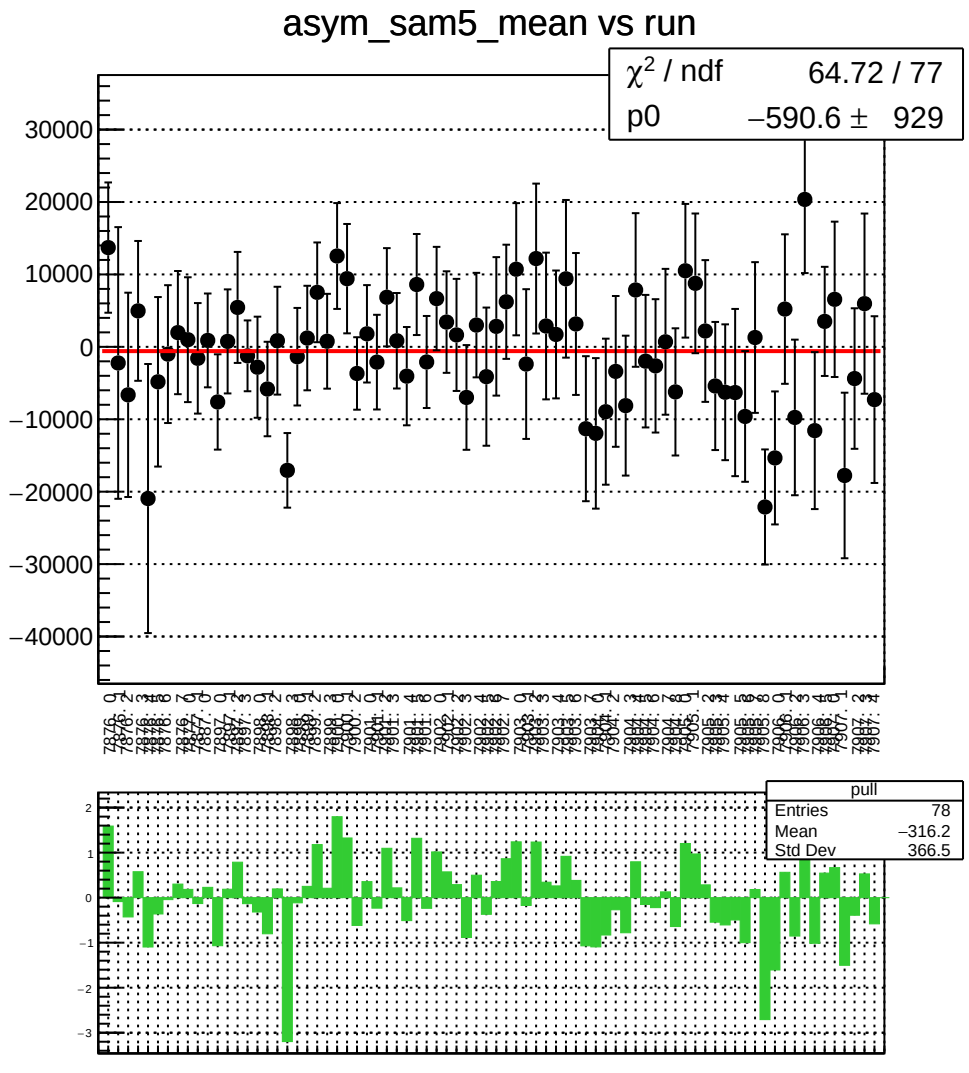

pull1D
Entries 78
Mean −0.009236
Std Dev 0.9723
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

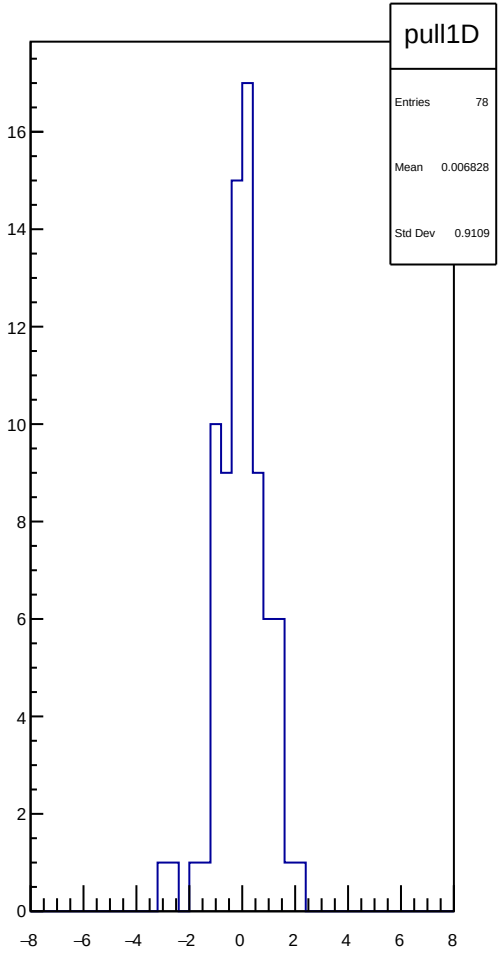

asym_sam3_rms vs run
χ² / ndf 1.408e+04 / 77
p0 3787 ± 3.09
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

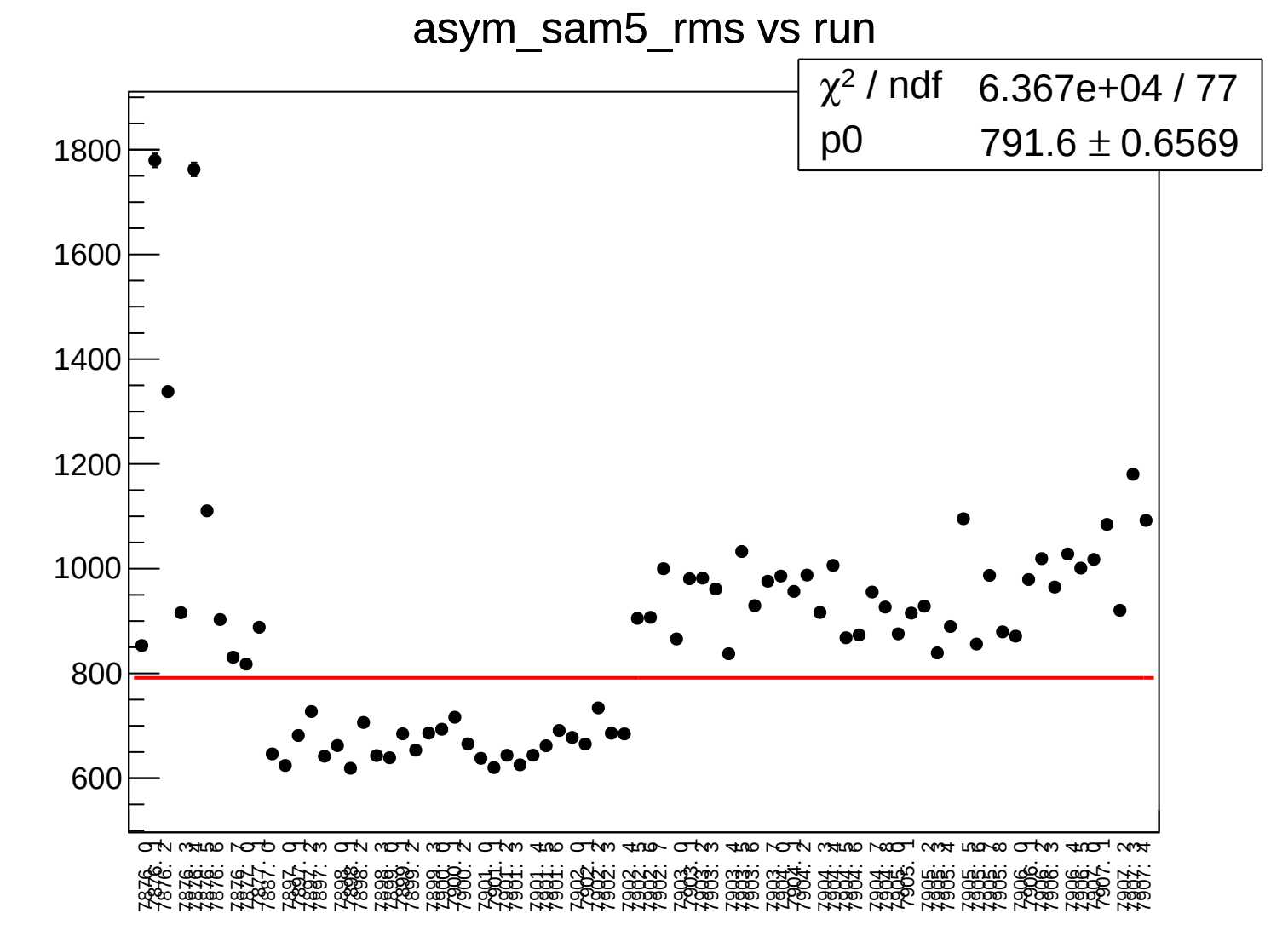

asym_sam4_mean vs run
×10^3
χ² / ndf 79.14 / 77
p0 8177 ± 6562
200
100
0
−100
−200
−300
pull
Entries 78
Mean 49.58
Std Dev 80.79
2
1
0
−1
−2
−3

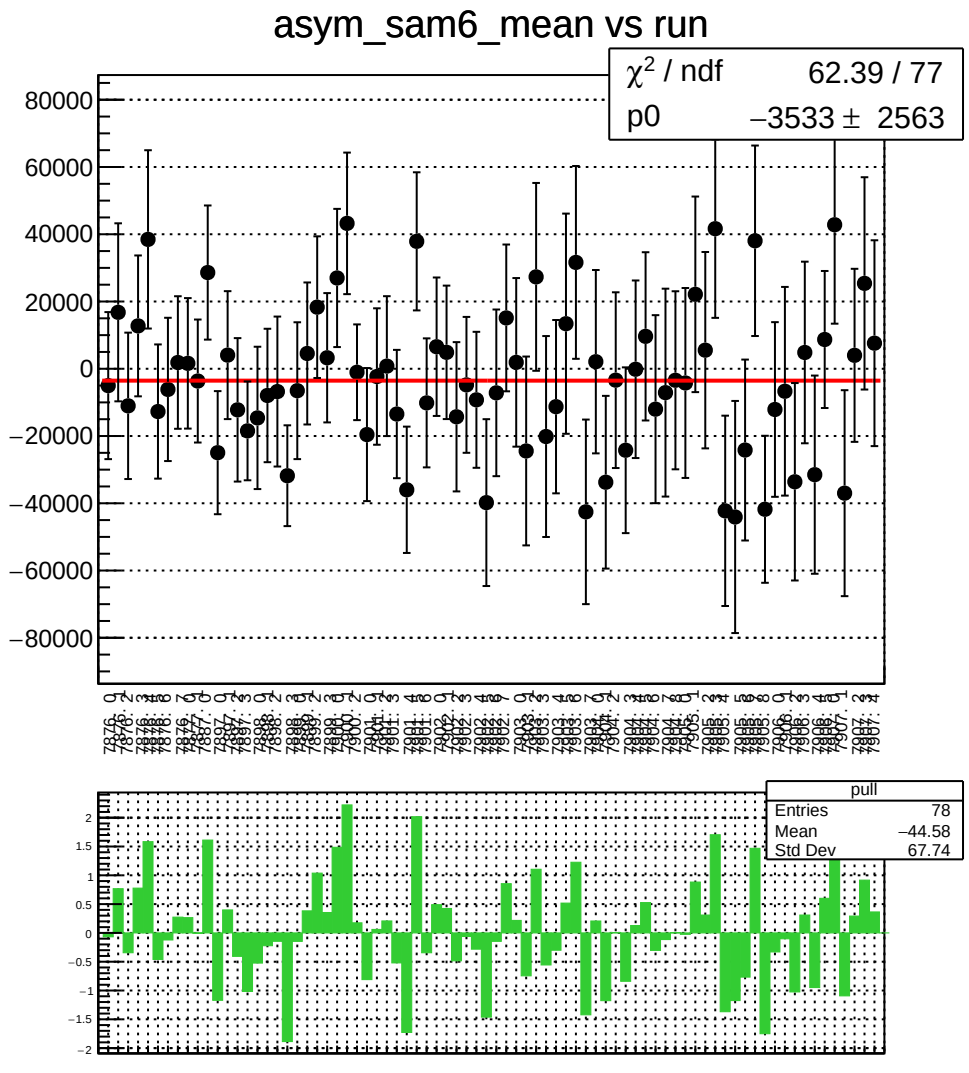

pull1D
Entries 78
Mean −0.01267
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

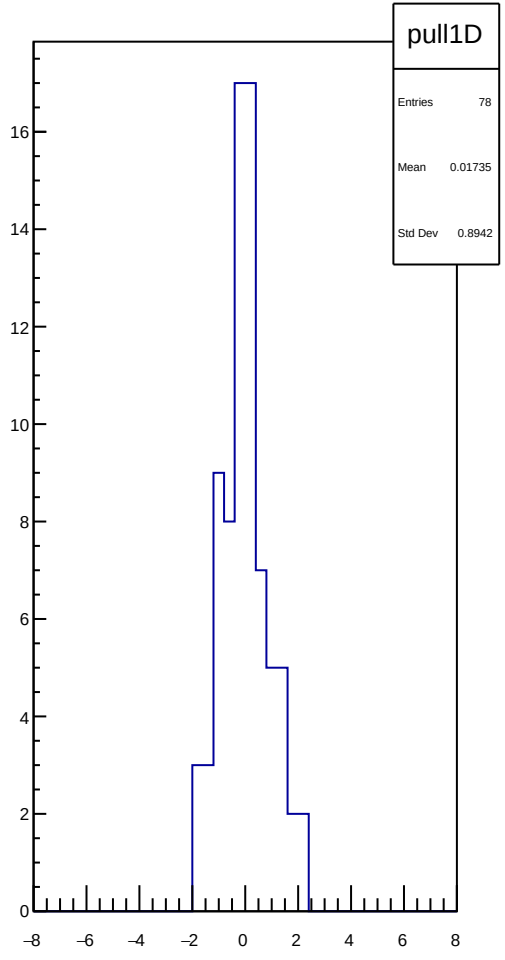

asym_sam4_rms vs run
χ² / ndf 1.174e+04 / 77
p0 5691 ± 4.64
8000
7500
7000
6500
6000
5500
5000

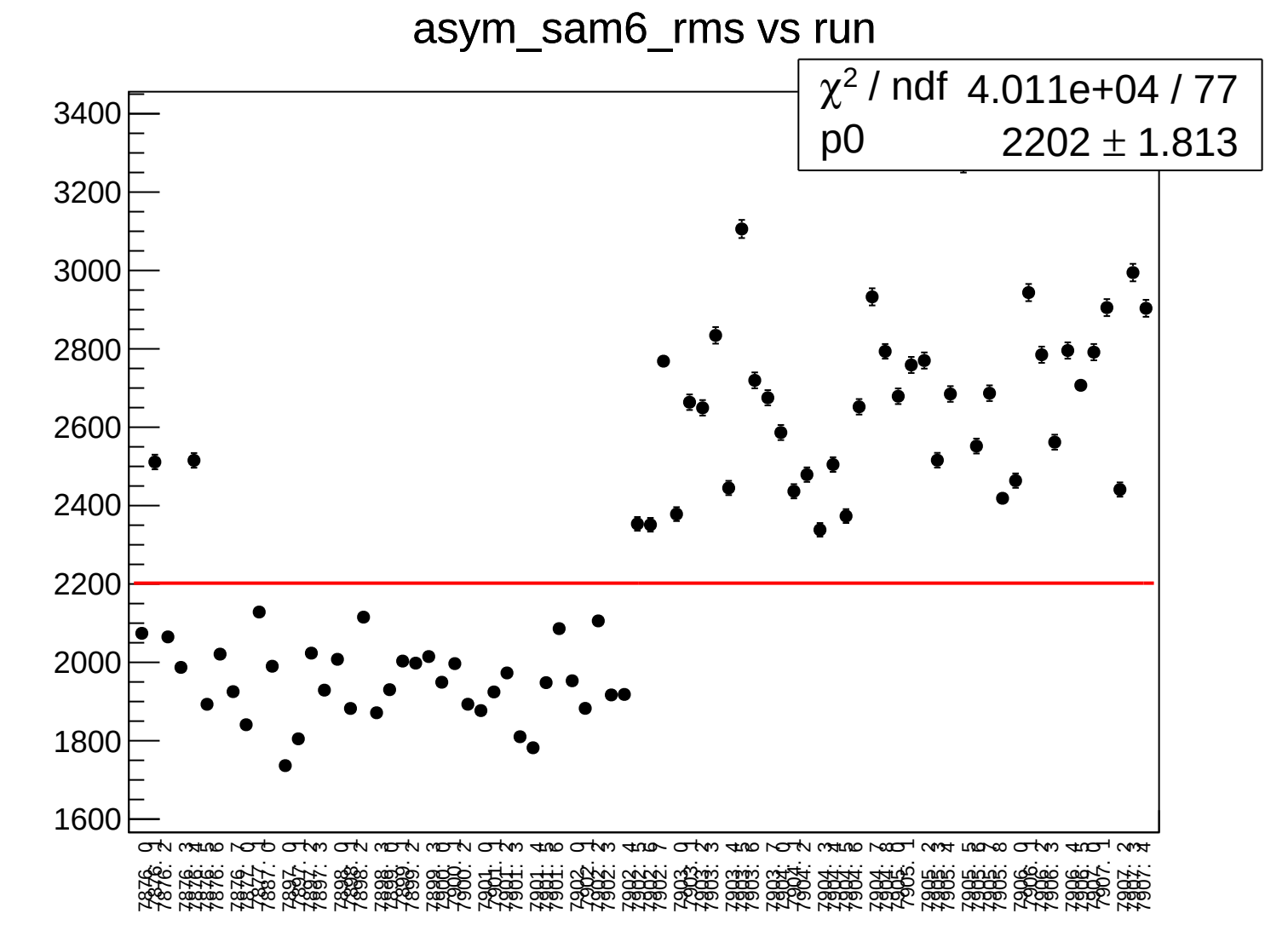

asym_sam5_mean vs run
χ² / ndf 64.72 / 77
p0 −590.6 ± 929
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 78
Mean −316.2
Std Dev 366.5
2
1
0
−1
−2
−3

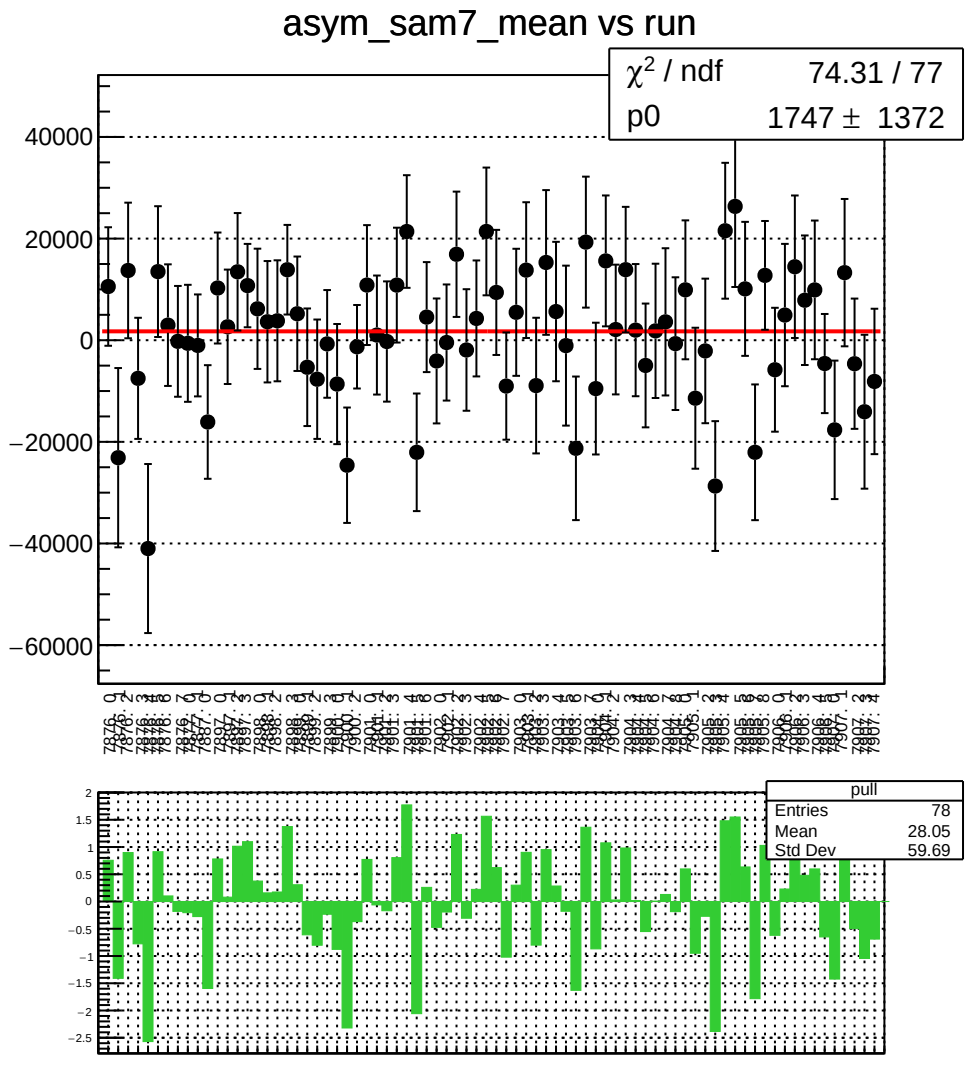

pull1D
Entries 78
Mean 0.006828
Std Dev 0.9109
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

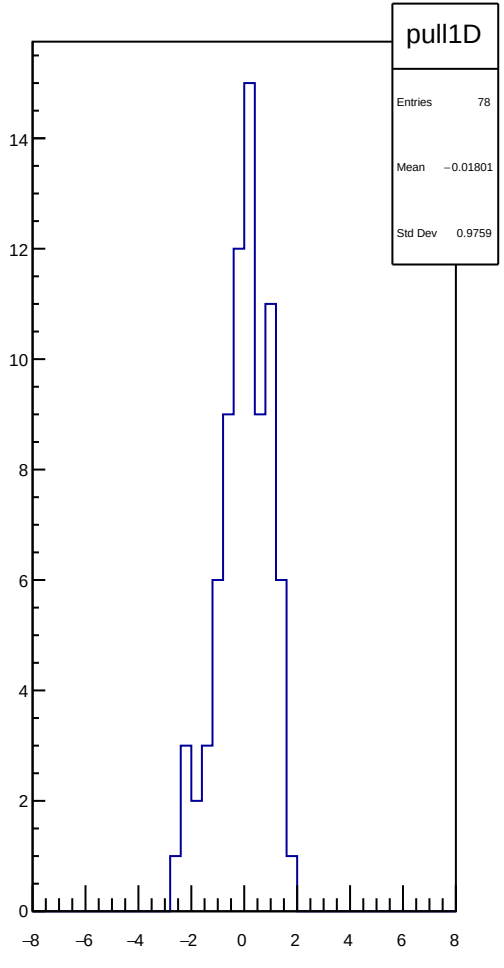

asym_sam5_rms vs run
χ² / ndf 6.367e+04 / 77
p0 791.6 ± 0.6569
1800
1600
1400
1200
1000
800
600

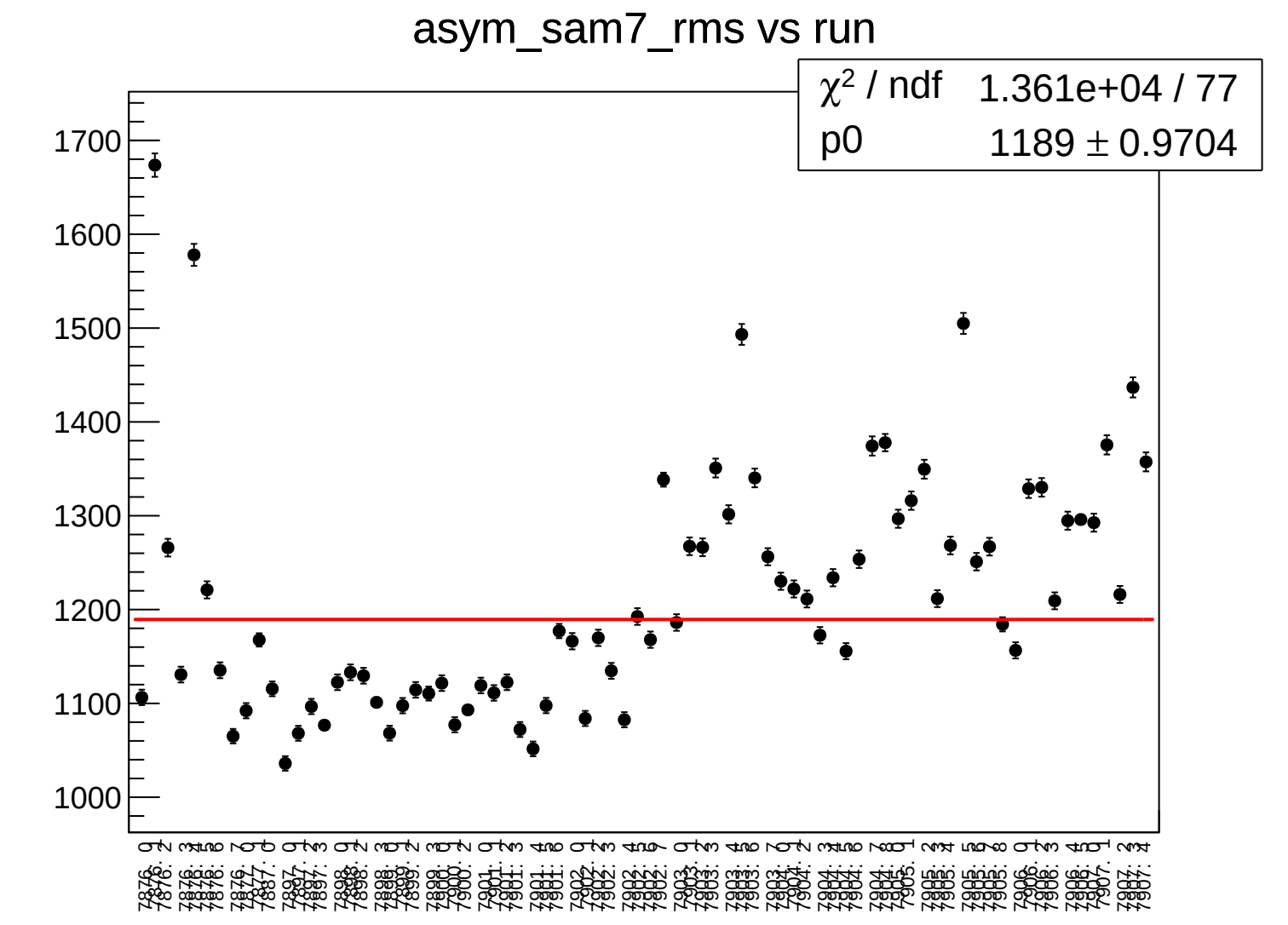

asym_sam6_mean vs run
χ² / ndf 62.39 / 77
p0 −3533 ± 2563
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 78
Mean −44.58
Std Dev 67.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

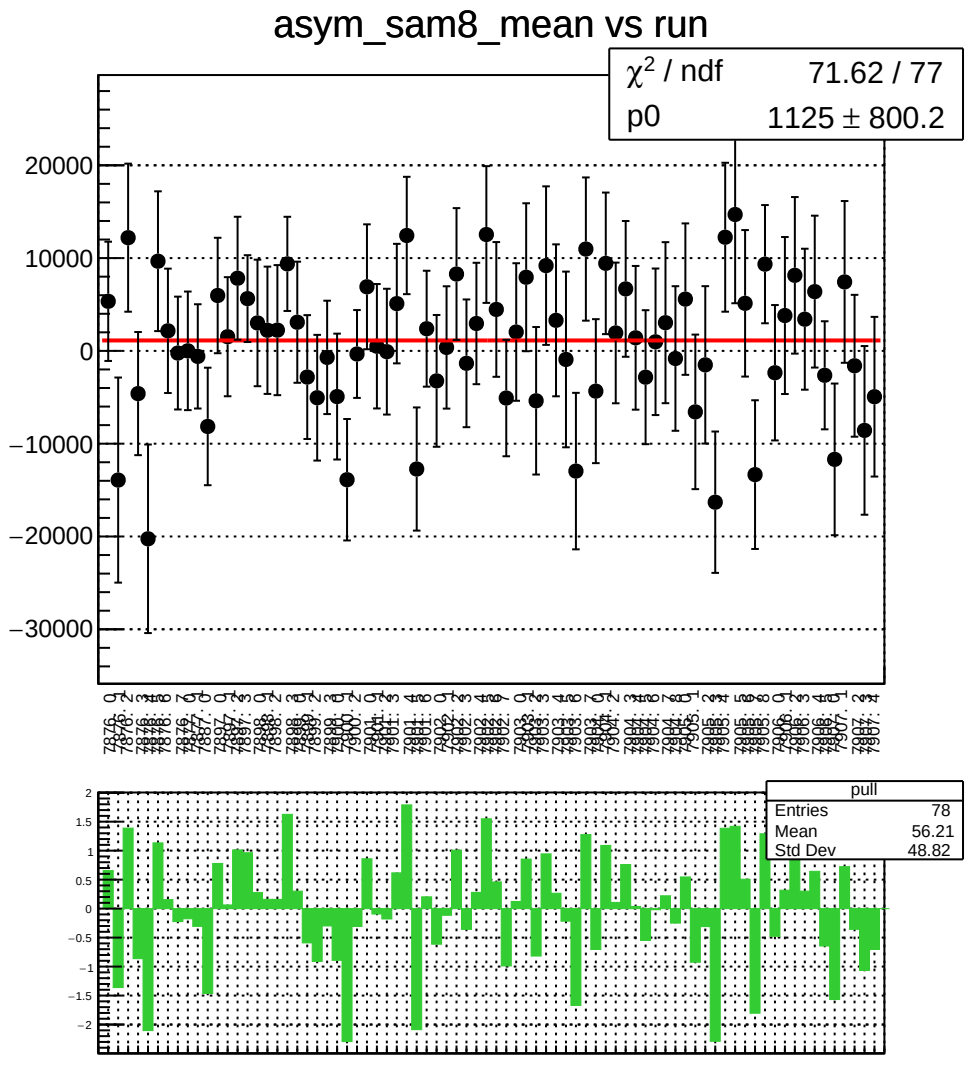

pull1D
Entries 78
Mean 0.01735
Std Dev 0.8942
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

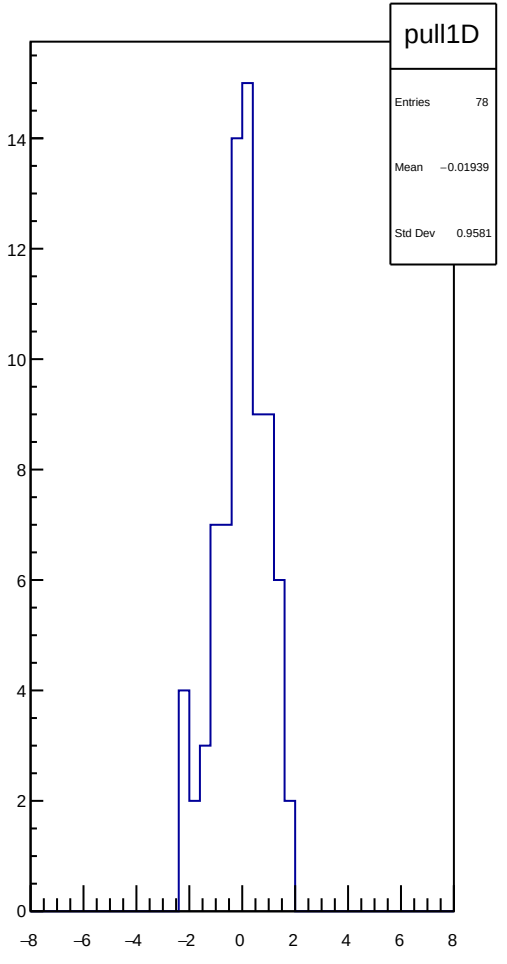

asym_sam6_rms vs run
χ² / ndf 4.011e+04 / 77
p0 2202 ± 1.813
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

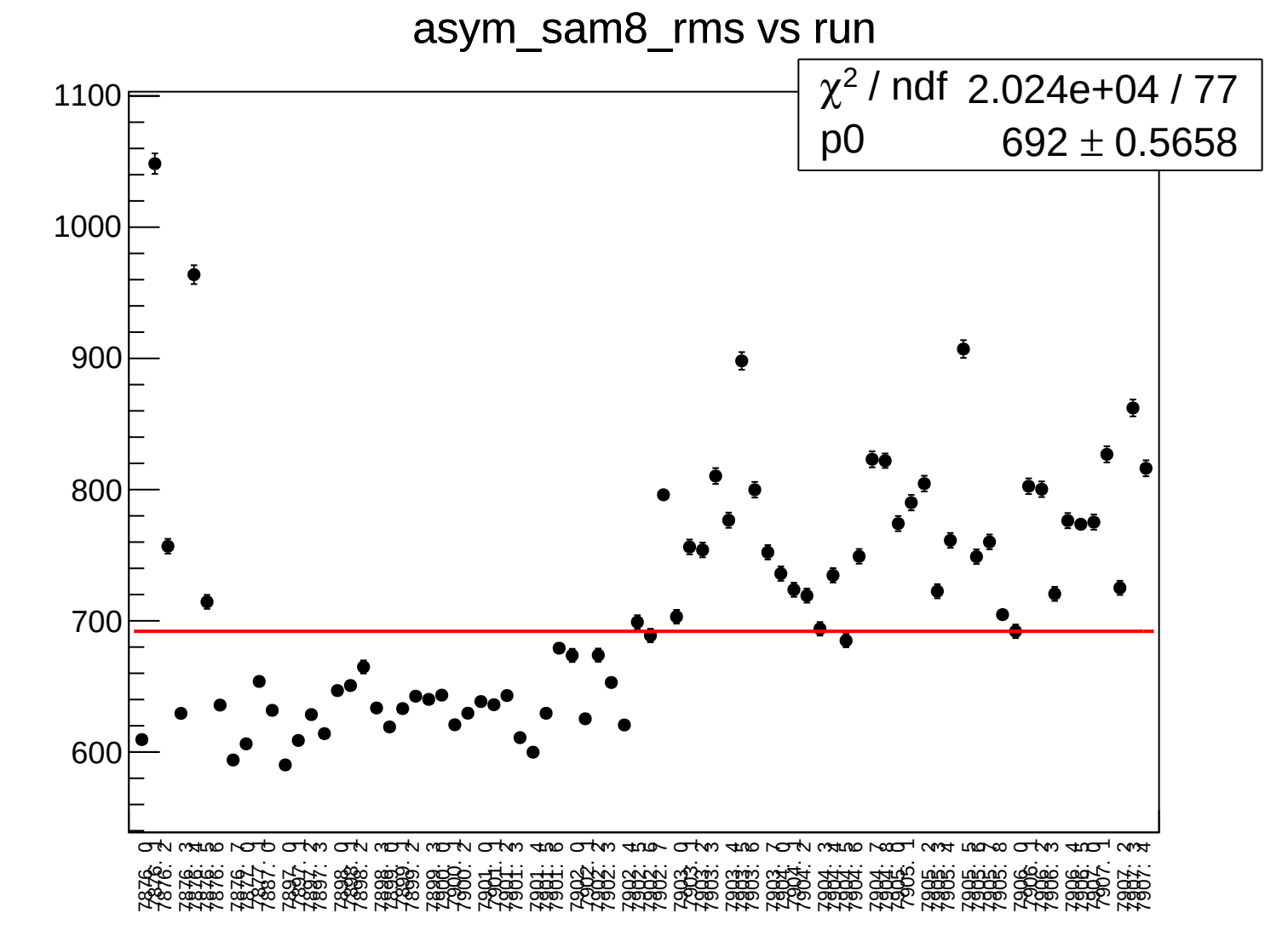

asym_sam7_mean vs run
χ^2 / ndf 74.31 / 77
p0 1747 ± 1372
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean 28.05
Std Dev 59.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

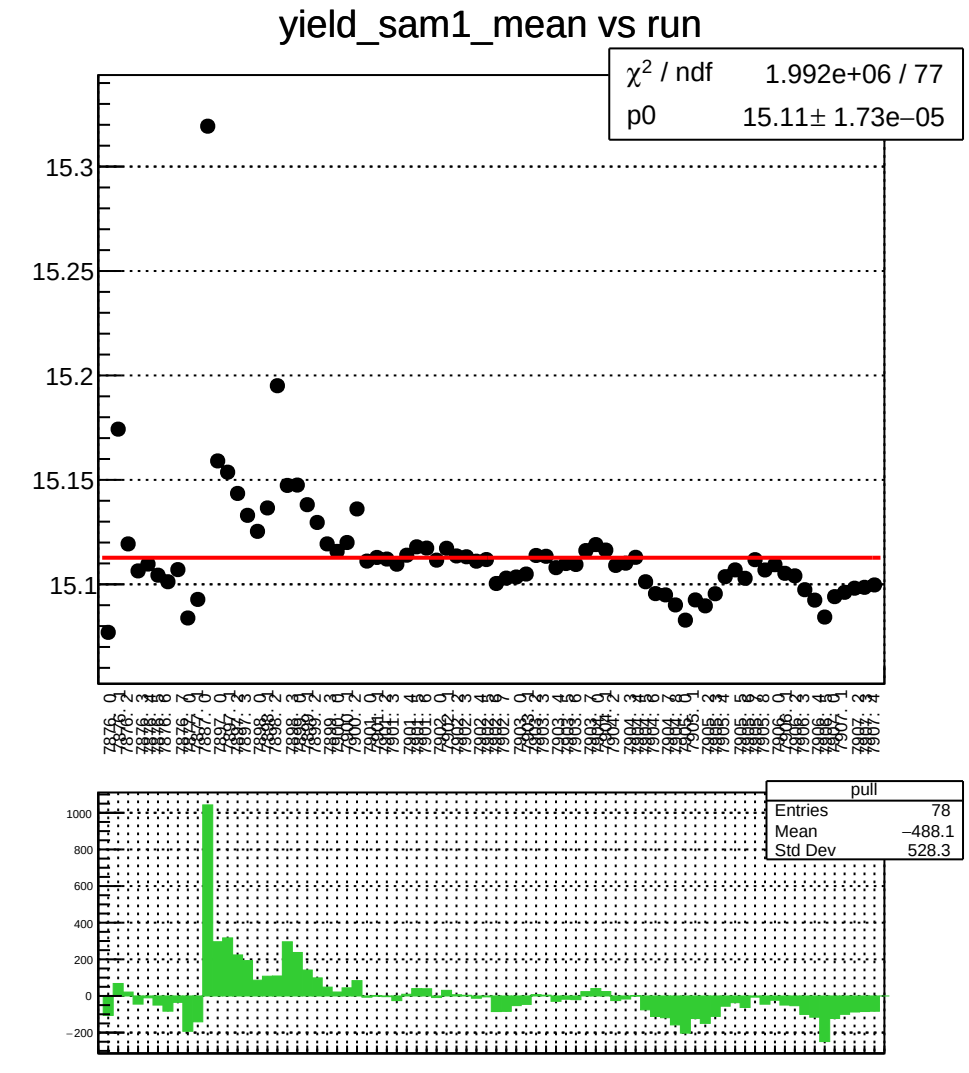

pull1D
Entries 78
Mean −0.01801
Std Dev 0.9759
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

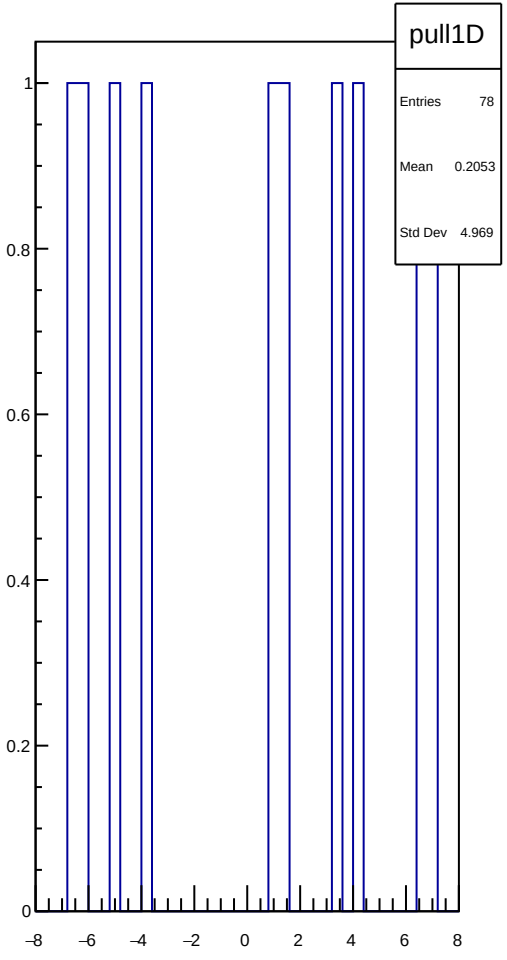

asym_sam7_rms vs run
χ² / ndf 1.361e+04 / 77
p0 1189 ± 0.9704
1700
1600
1500
1400
1300
1200
1100
1000

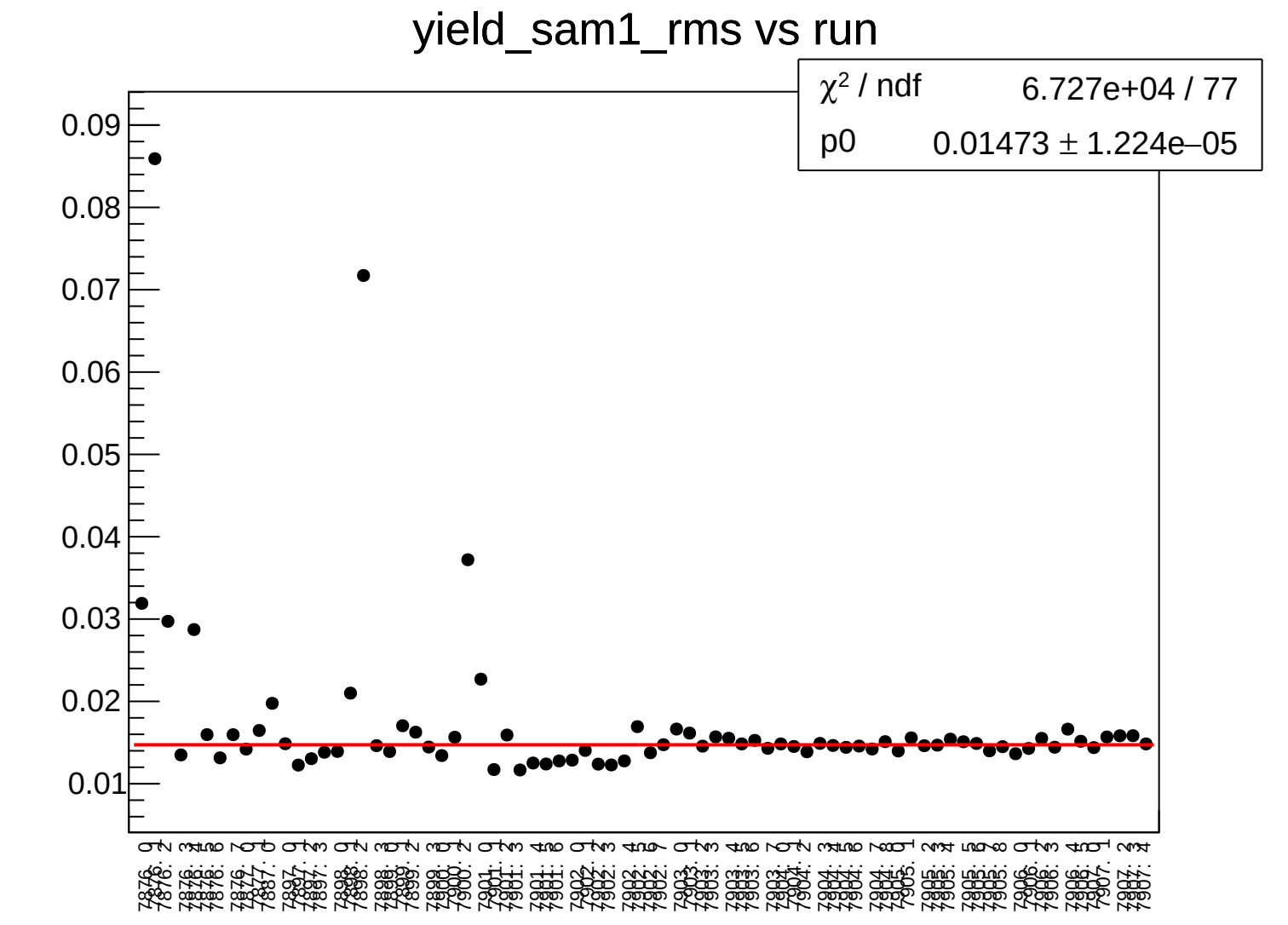

asym_sam8_mean vs run
χ^2 / ndf 71.62 / 77
p0 1125 ± 800.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean 56.21
Std Dev 48.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

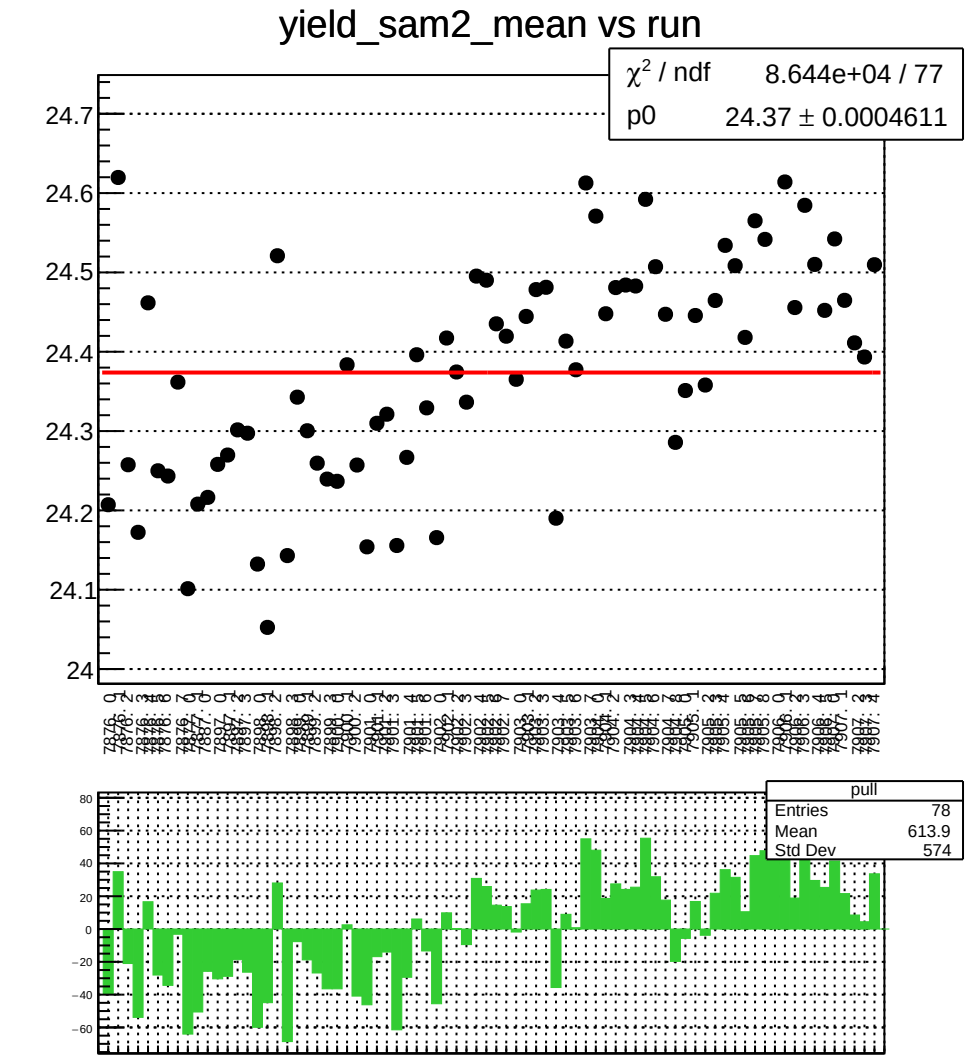

pull1D
Entries 78
Mean −0.01939
Std Dev 0.9581
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

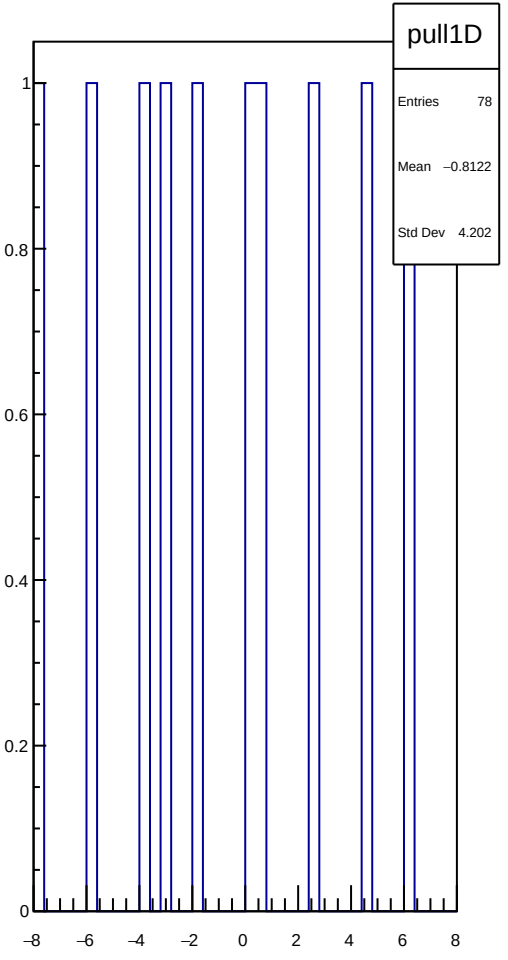

asym_sam8_rms vs run
χ² / ndf 2.024e+04 / 77
p0 692 ± 0.5658
1100
1000
900
800
700
600

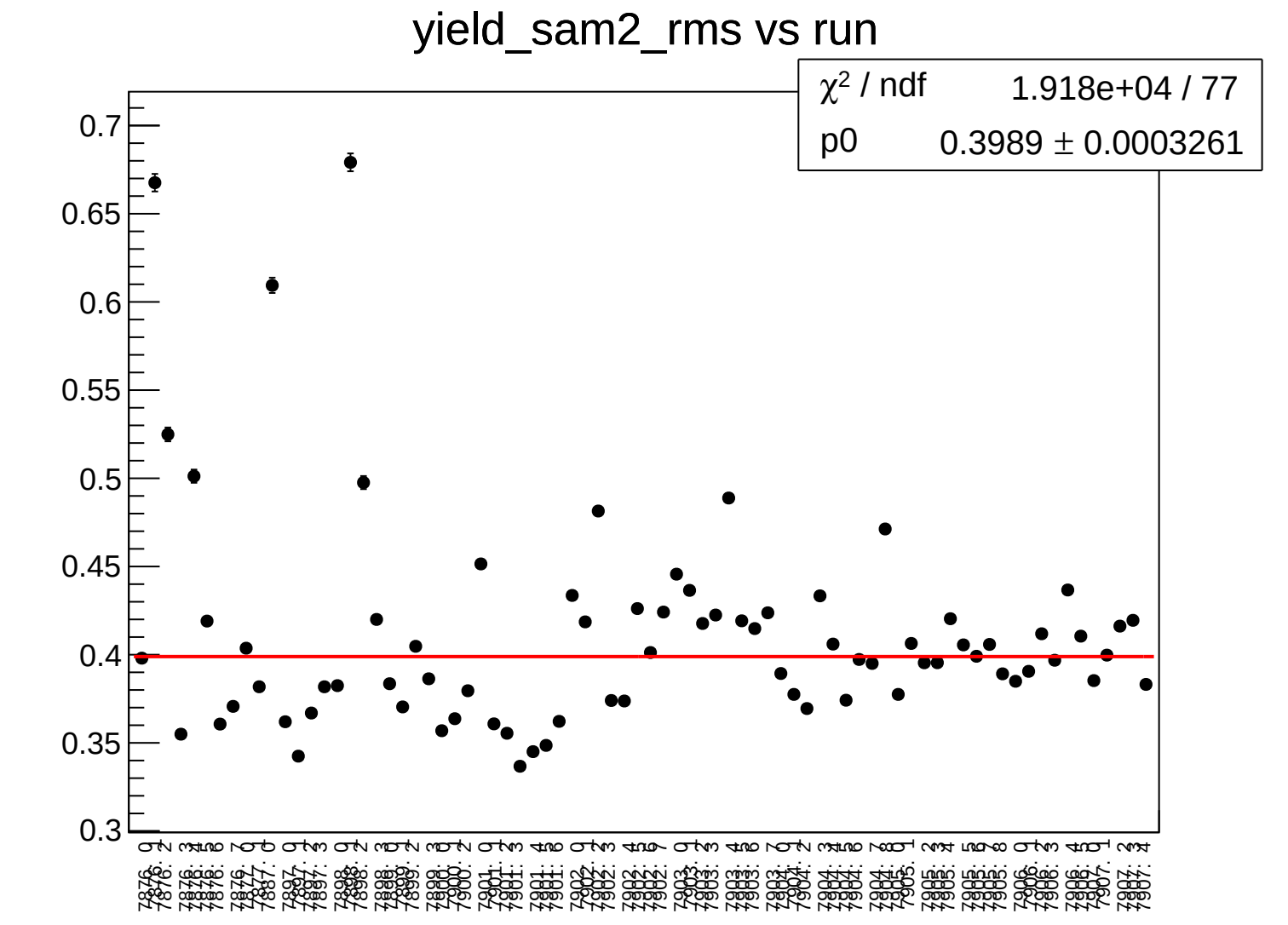

yield_sam1_mean vs run
χ² / ndf 1.992e+06 / 77
p0 15.11± 1.73e−05
15.3
15.25
15.2
15.15
15.1
pull
Entries 78
Mean −488.1
Std Dev 528.3
1000
800
600
400
200
0
−200

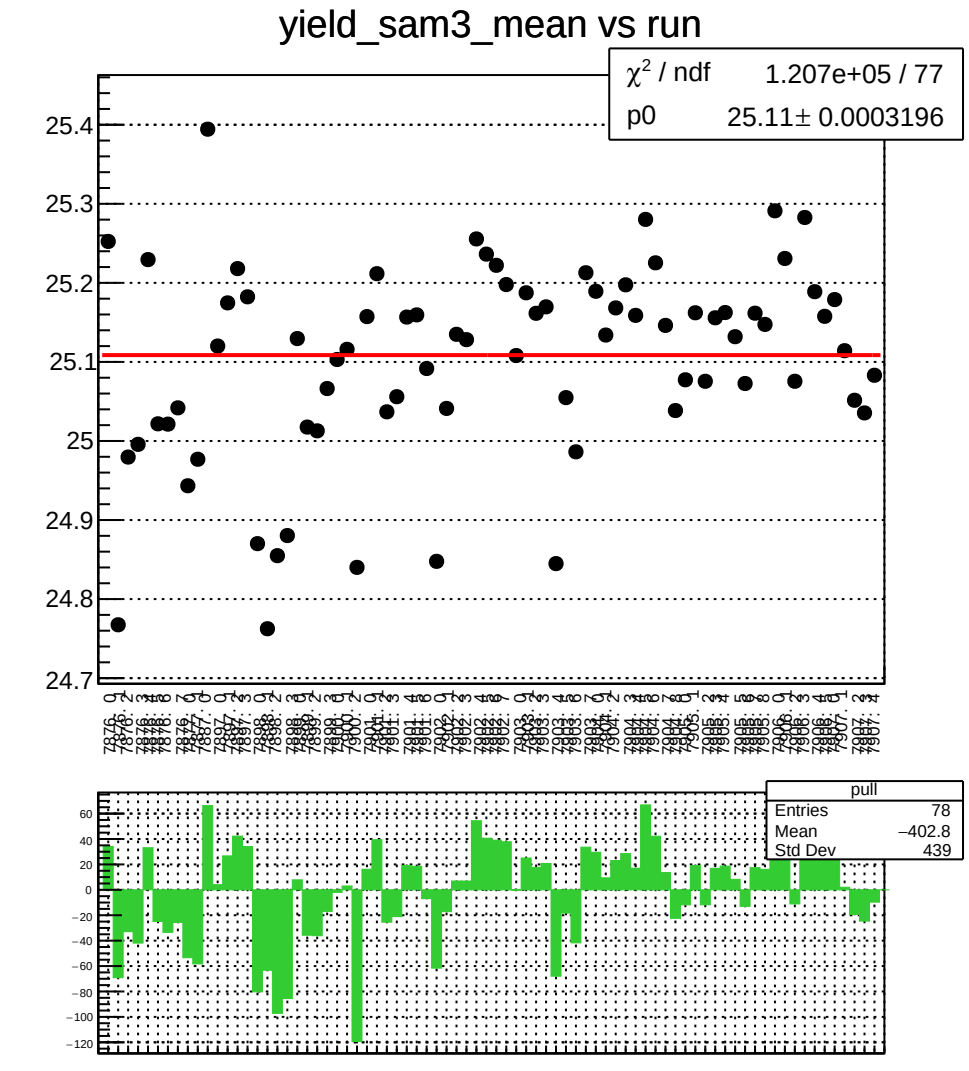

pull1D
Entries 78
Mean 0.2053
Std Dev 4.969
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

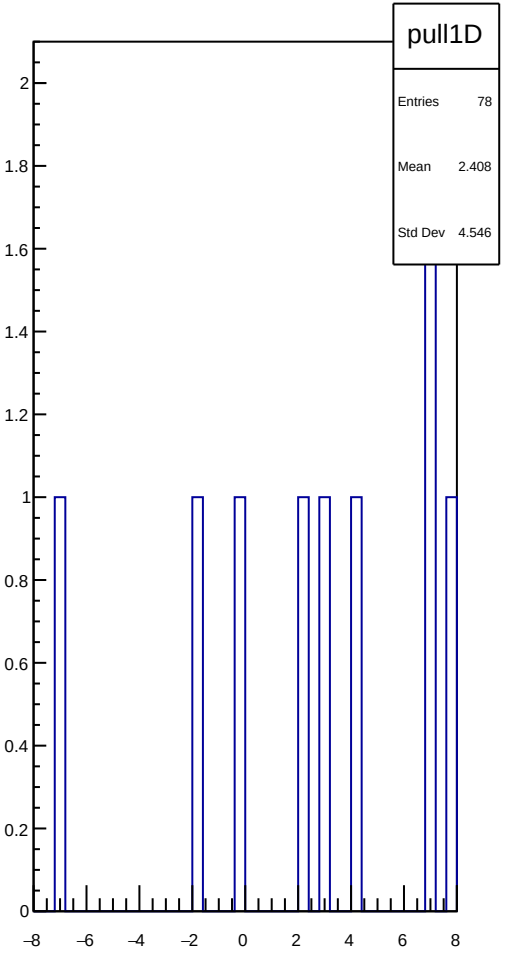

yield_sam1_rms vs run
χ² / ndf 6.727e+04 / 77
p0 0.01473 ± 1.224e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

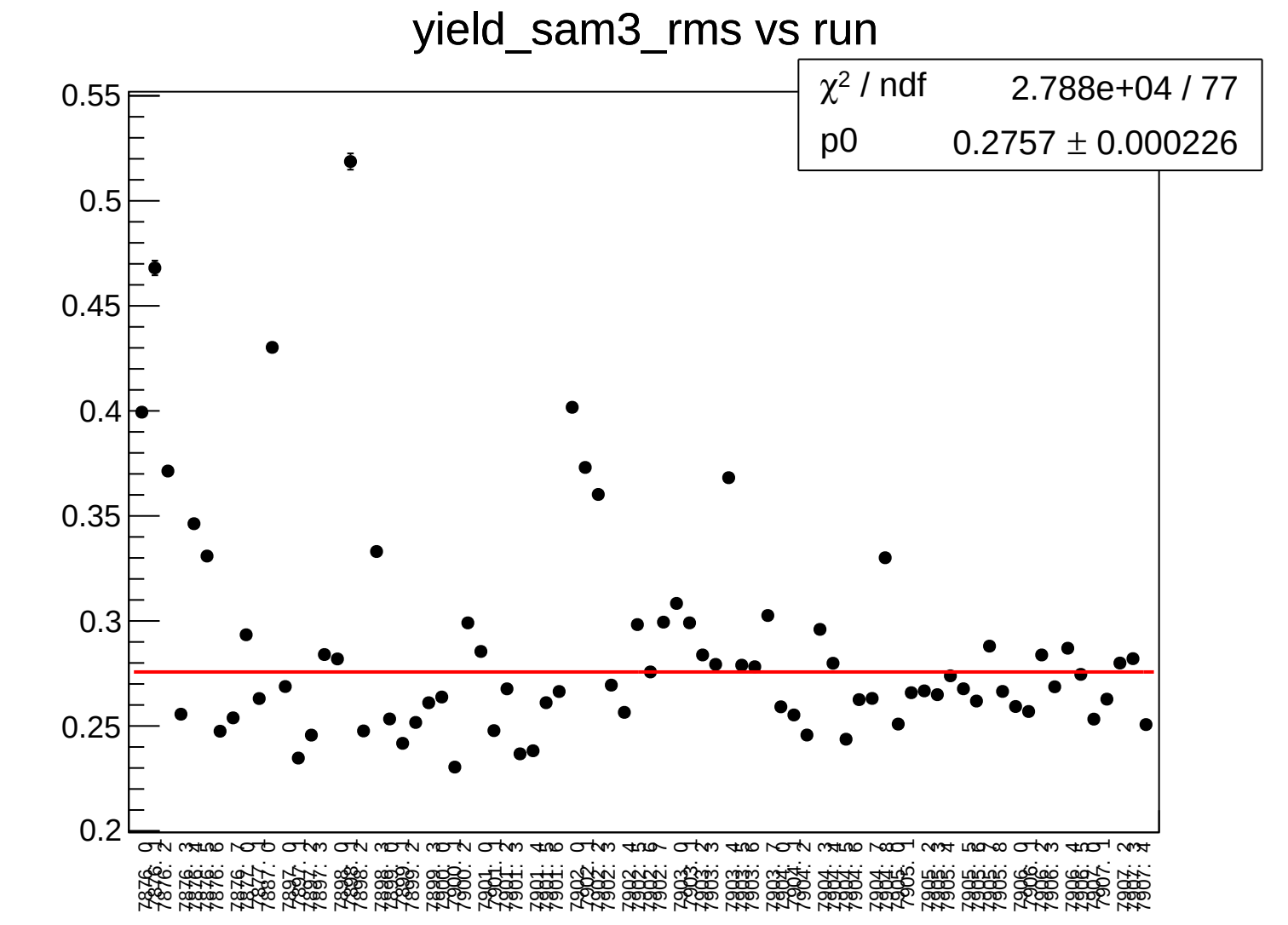

yield_sam2_mean vs run
χ² / ndf 8.644e+04 / 77
p0 24.37 ± 0.0004611
24.7
24.6
24.5
24.4
24.3
24.2
24.1
24
pull
Entries 78
Mean 613.9
Std Dev 574
80
60
40
20
0
−20
−40
−60

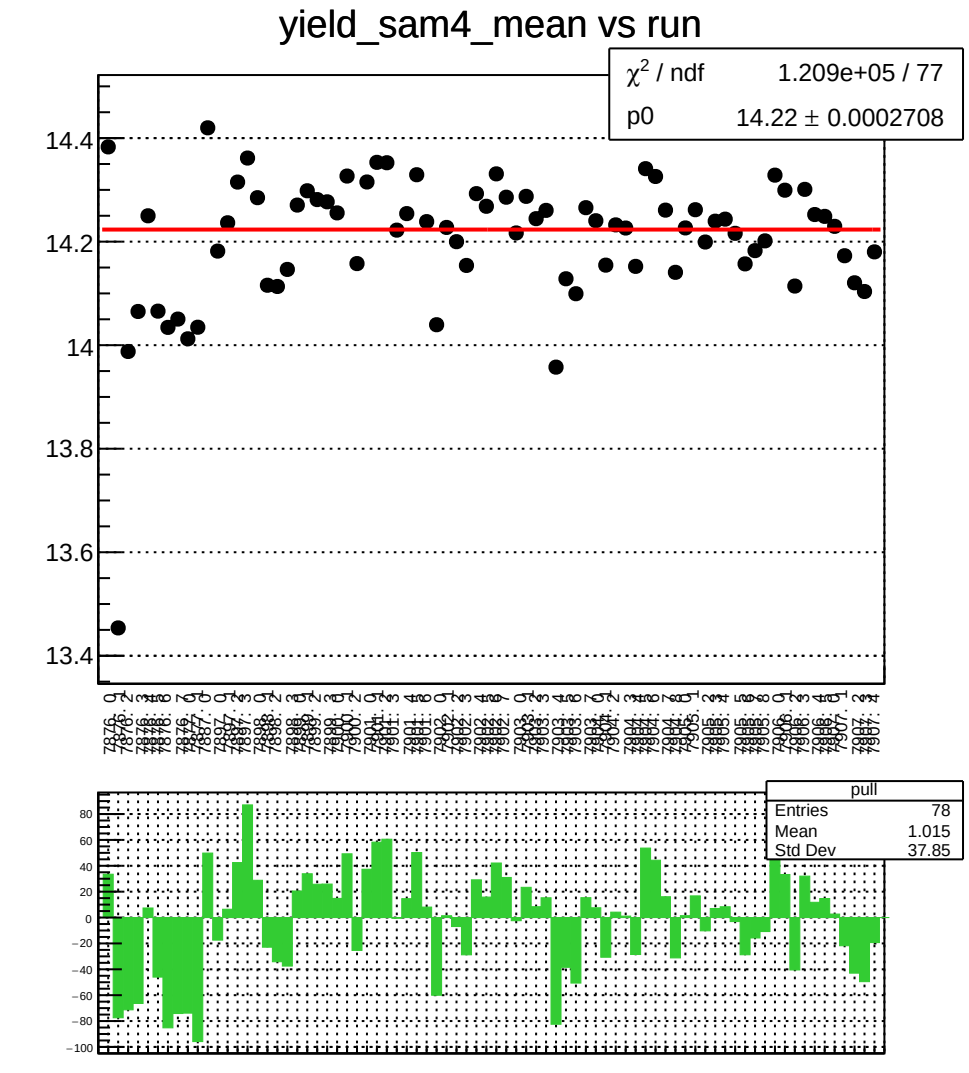

pull1D
Entries 78
Mean −0.8122
Std Dev 4.202
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

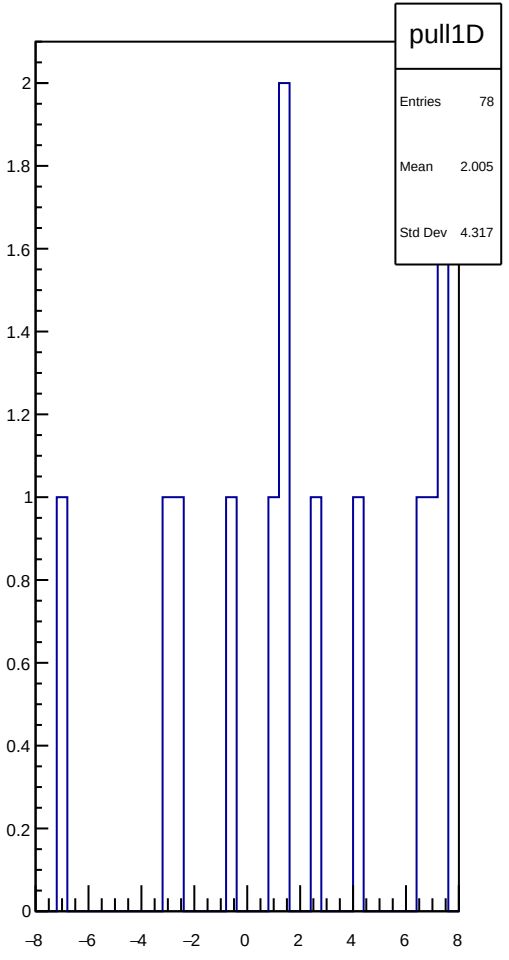

yield_sam2_rms vs run
χ² / ndf 1.918e+04 / 77
p0 0.3989 ± 0.0003261
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

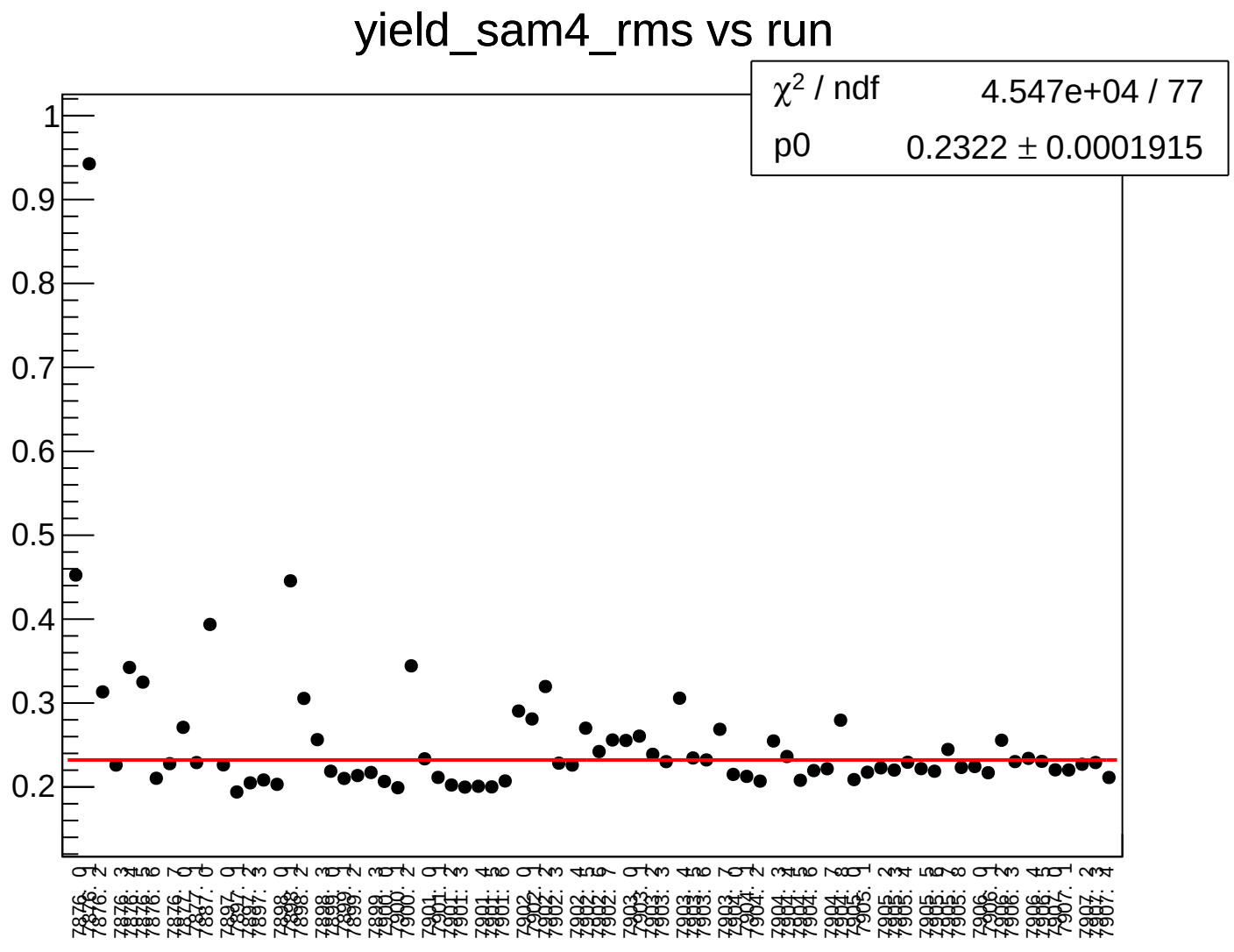

yield_sam3_mean vs run
χ² / ndf 1.207e+05 / 77
p0 25.11± 0.0003196
25.4
25.3
25.2
25.1
25
24.9
24.8
24.7
pull
Entries 78
Mean −402.8
Std Dev 439
60
40
20
0
−20
−40
−60
−80
−100
−120

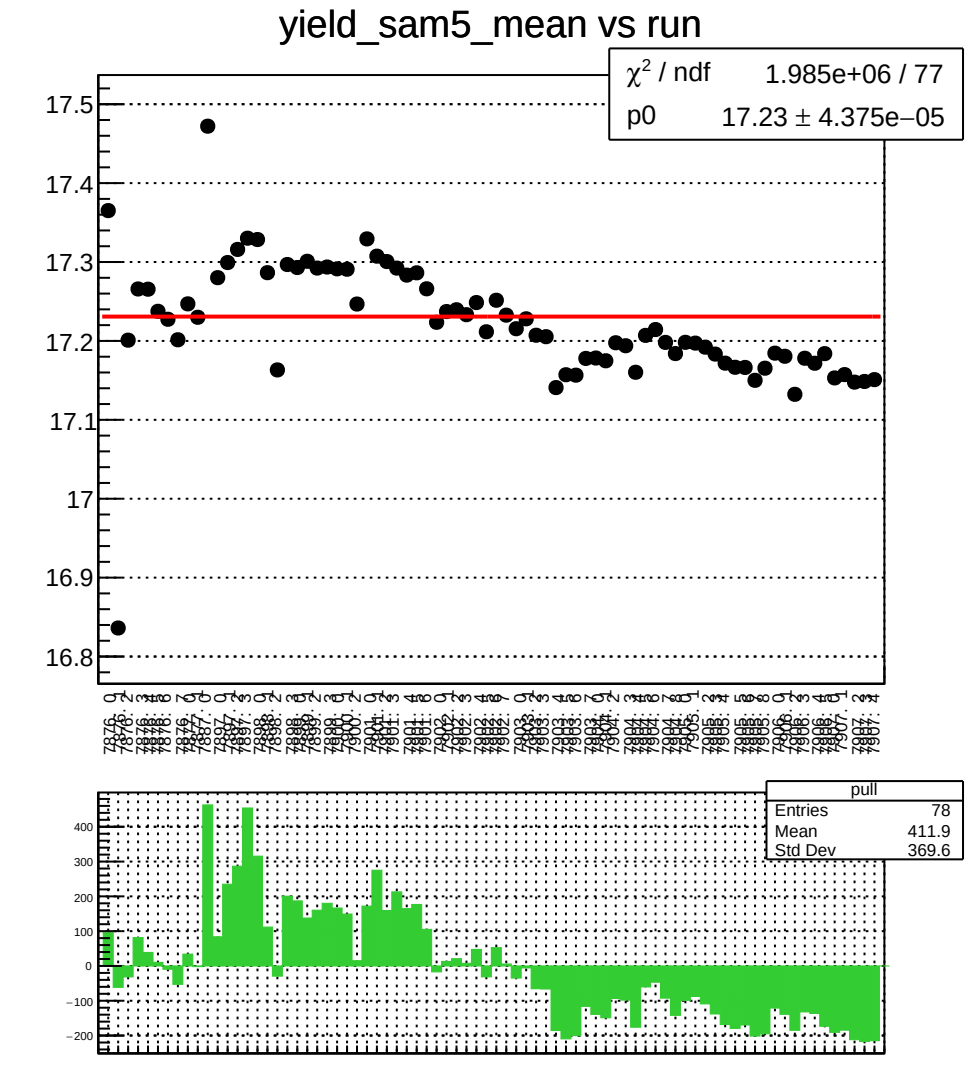

pull1D
Entries 78
Mean 2.408
Std Dev 4.546
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

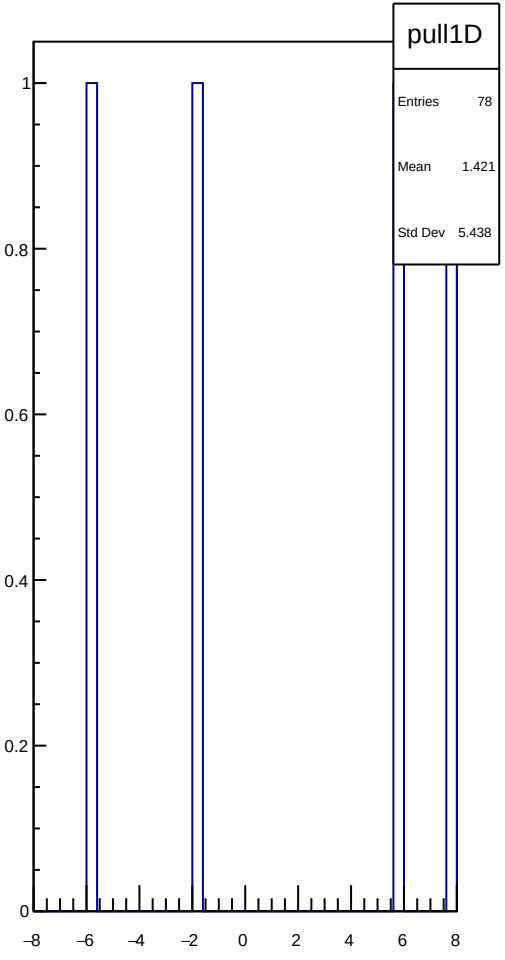

yield_sam3_rms vs run
χ² / ndf 2.788e+04 / 77
p0 0.2757 ± 0.000226
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

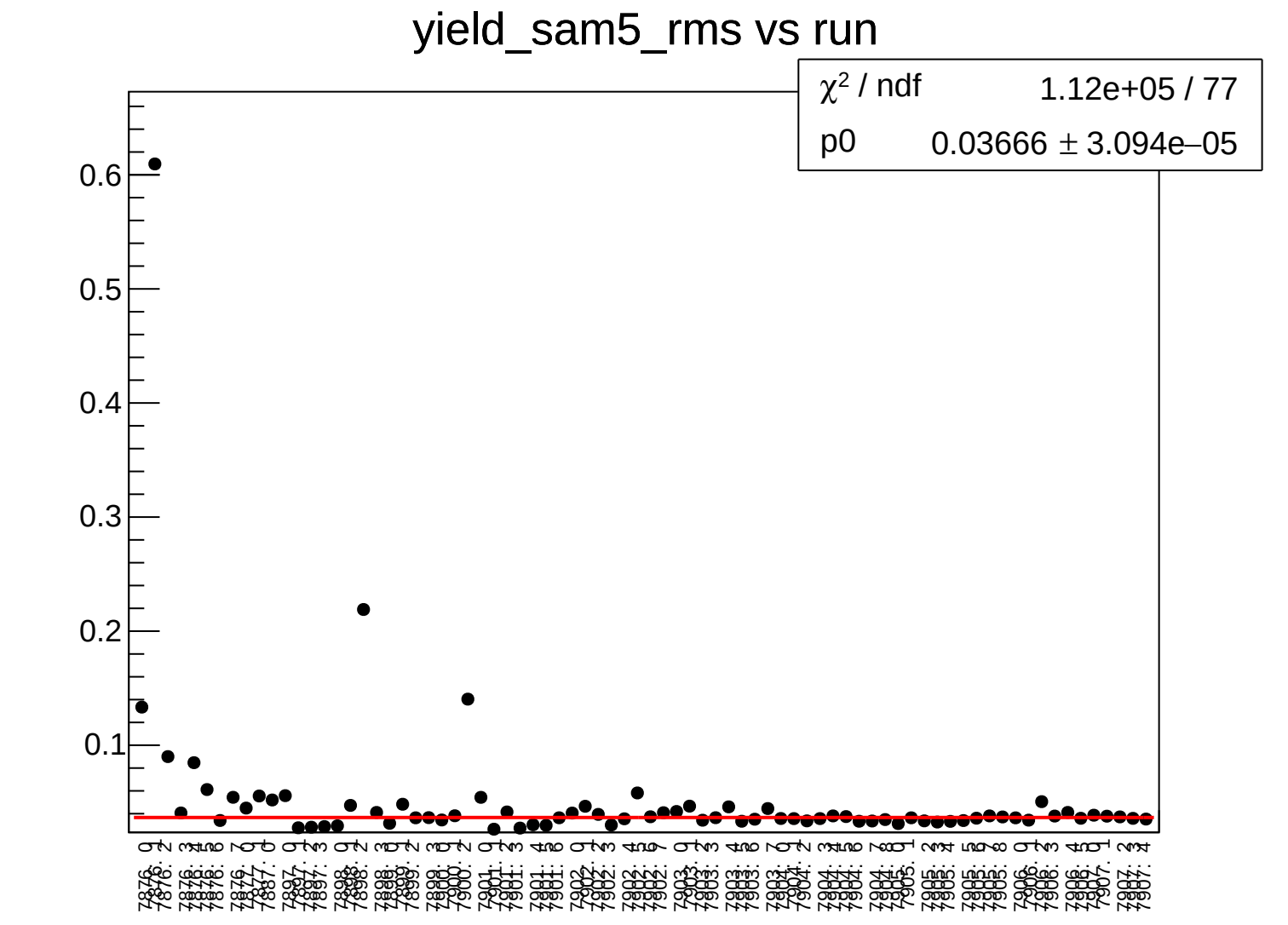

yield_sam4_mean vs run
χ² / ndf 1.209e+05 / 77
p0 14.22 ± 0.0002708
14.4
14.2
14
13.8
13.6
13.4
pull
Entries 78
Mean 1.015
Std Dev 37.85
80
60
40
20
0
−20
−40
−60
−80
−100

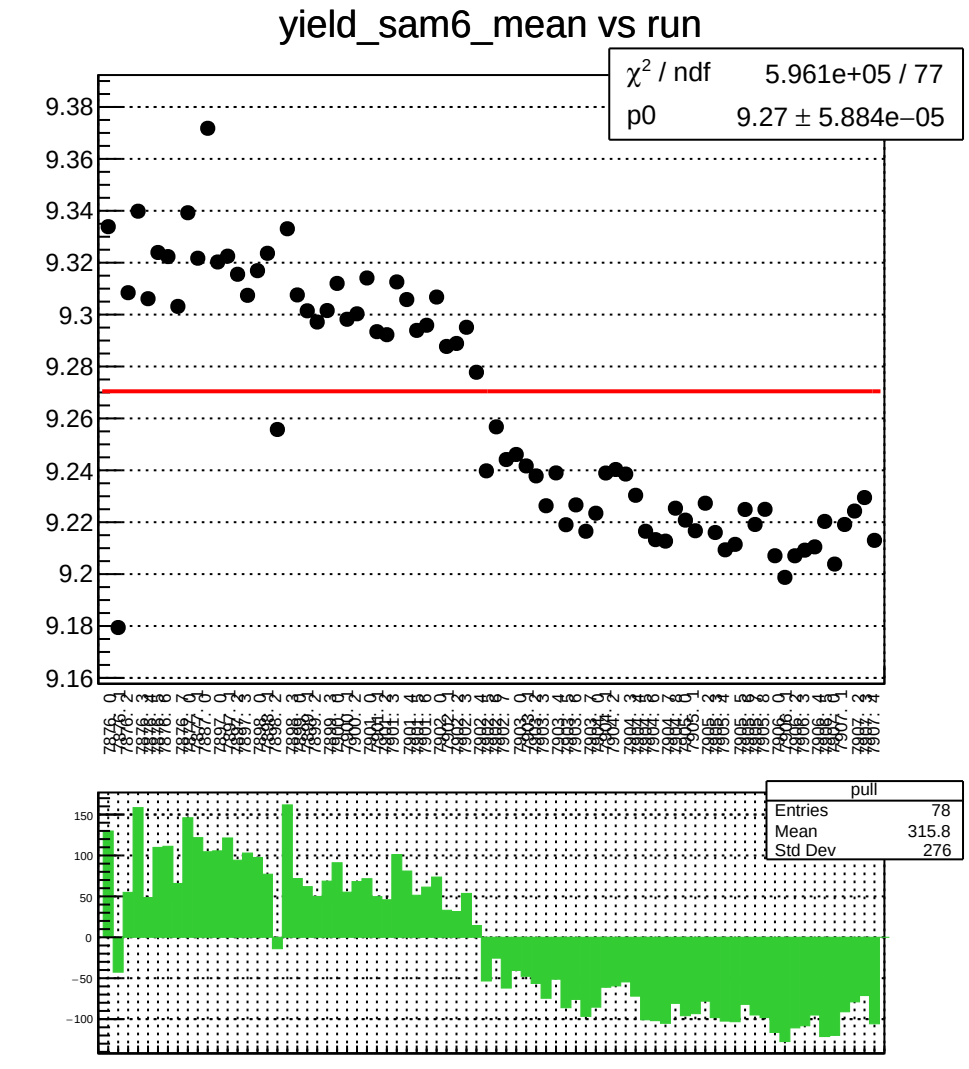

pull1D
Entries 78
Mean 2.005
Std Dev 4.317
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

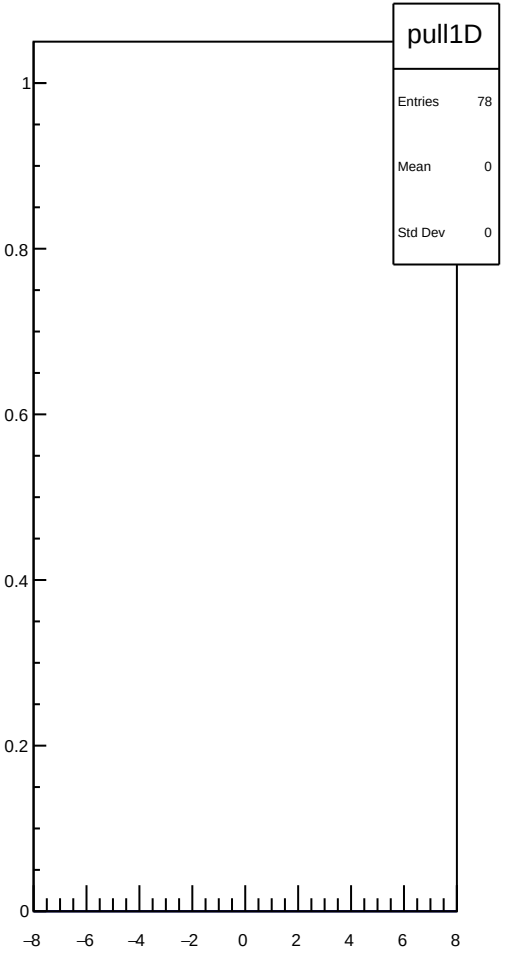

yield_sam4_rms vs run
χ² / ndf 4.547e+04 / 77
p0 0.2322 ± 0.0001915
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

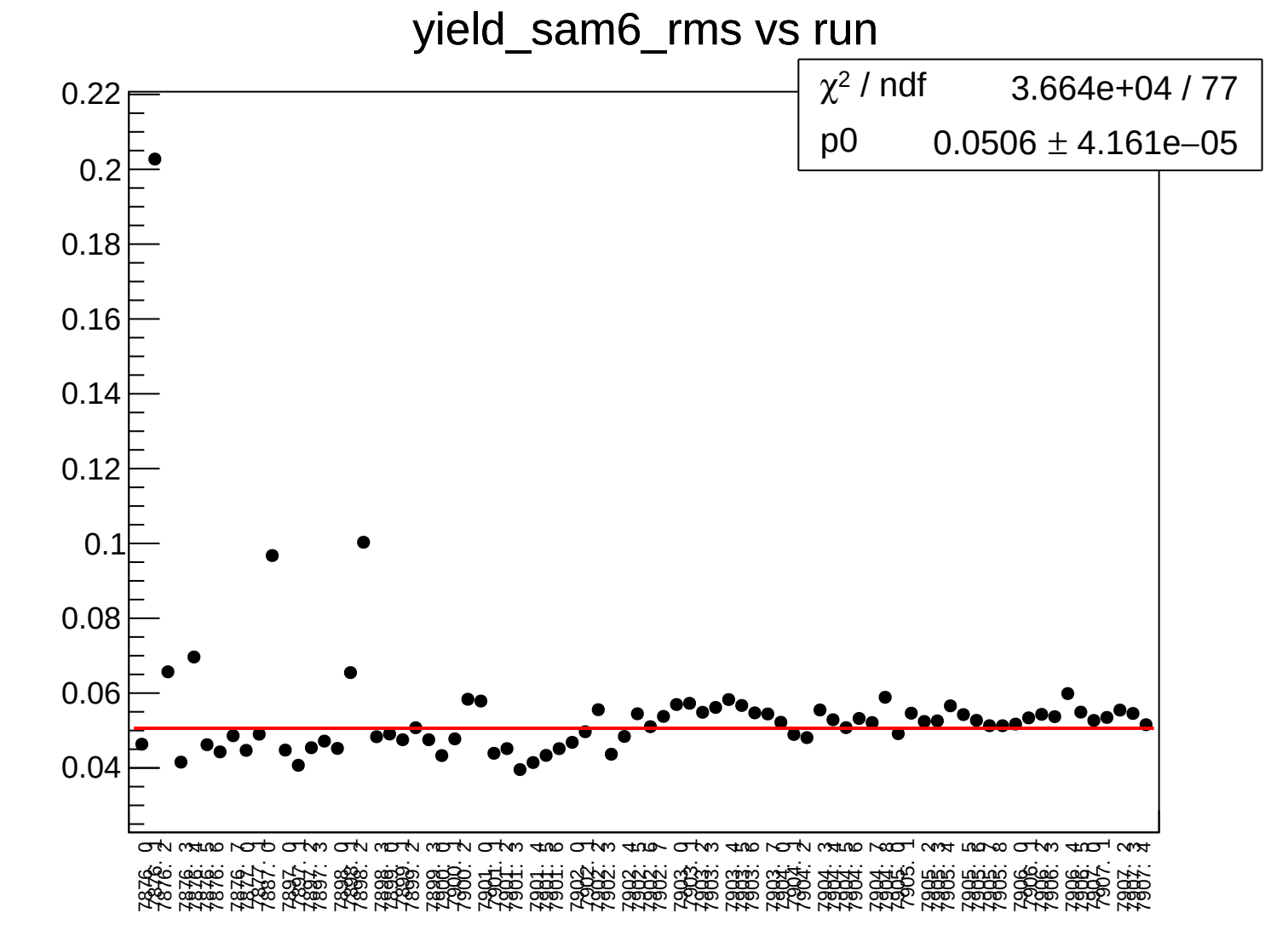

yield_sam5_mean vs run
χ² / ndf 1.985e+06 / 77
p0 17.23 ± 4.375e−05
17.5
17.4
17.3
17.2
17.1
17
16.9
16.8
pull
Entries 78
Mean 411.9
Std Dev 369.6
400
300
200
100
0
−100
−200

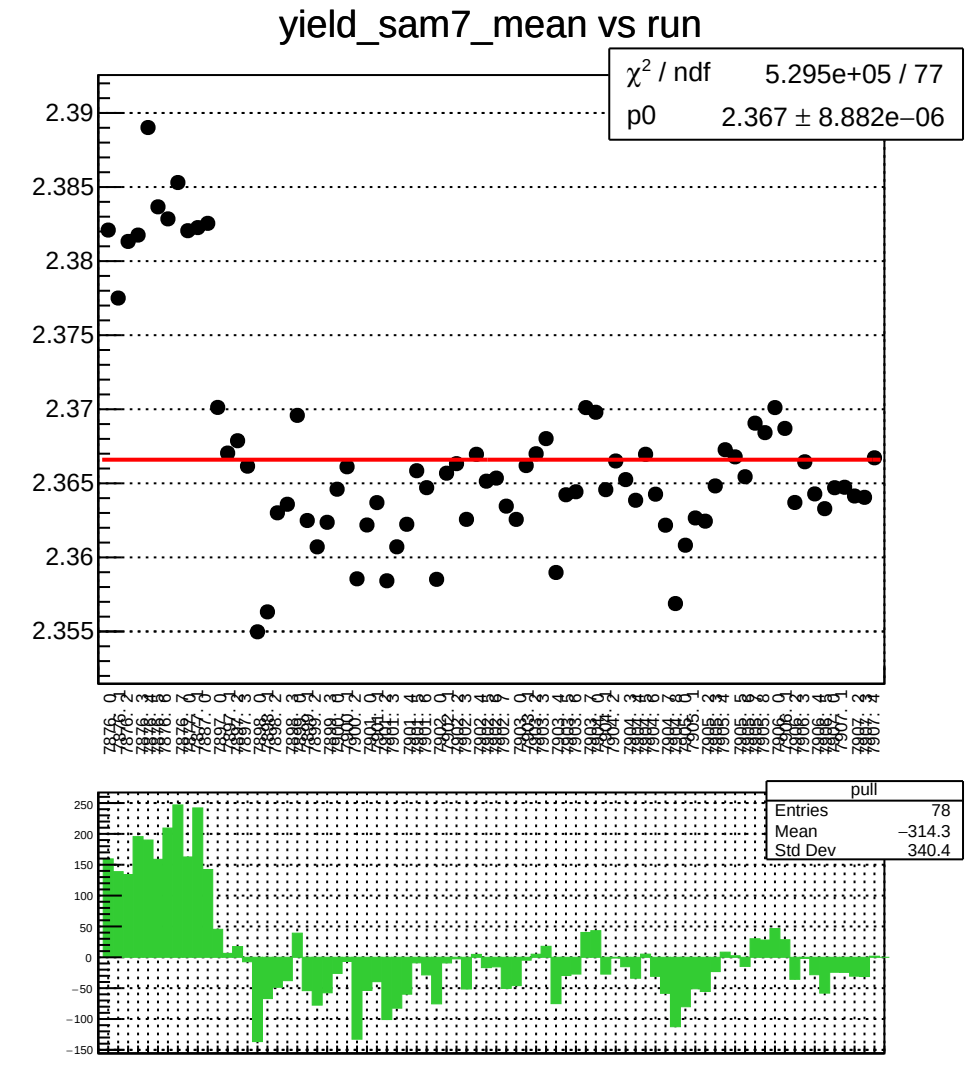

pull1D
Entries 78
Mean 1.421
Std Dev 5.438
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

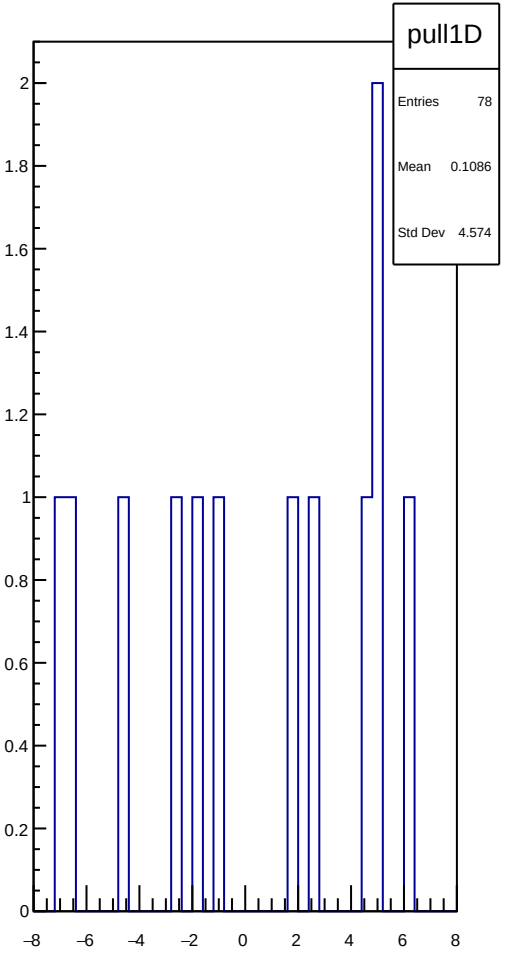

yield_sam5_rms vs run
χ² / ndf 1.12e+05 / 77
p0 0.03666 ± 3.094e−05
0.6
0.5
0.4
0.3
0.2
0.1

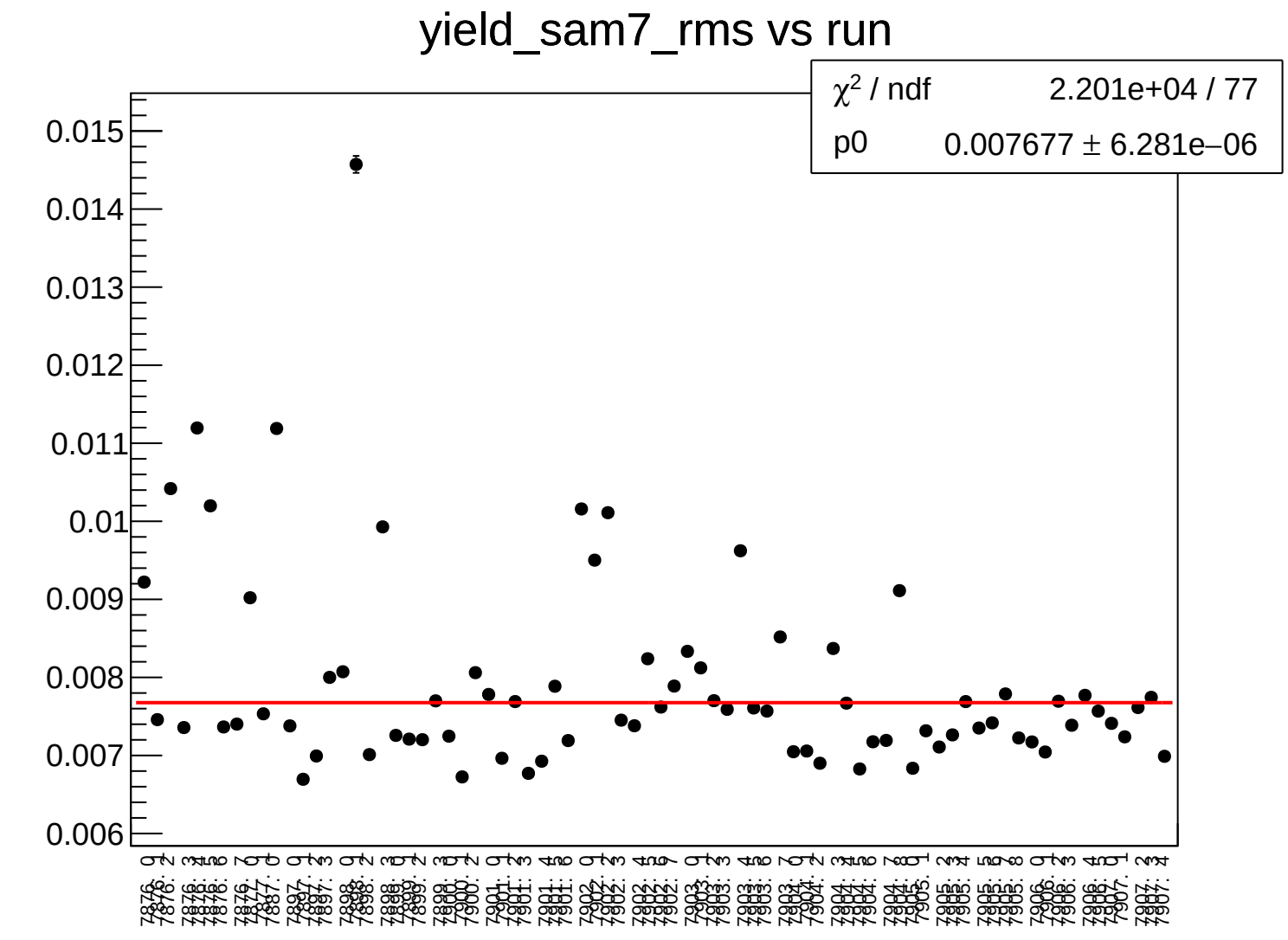

yield_sam6_mean vs run
χ² / ndf 5.961e+05 / 77
p0 9.27 ± 5.884e−05
9.38
9.36
9.34
9.32
9.3
9.28
9.26
9.24
9.22
9.2
9.18
9.16
pull
Entries 78
Mean 315.8
Std Dev 276
150
100
50
0
−50
−100

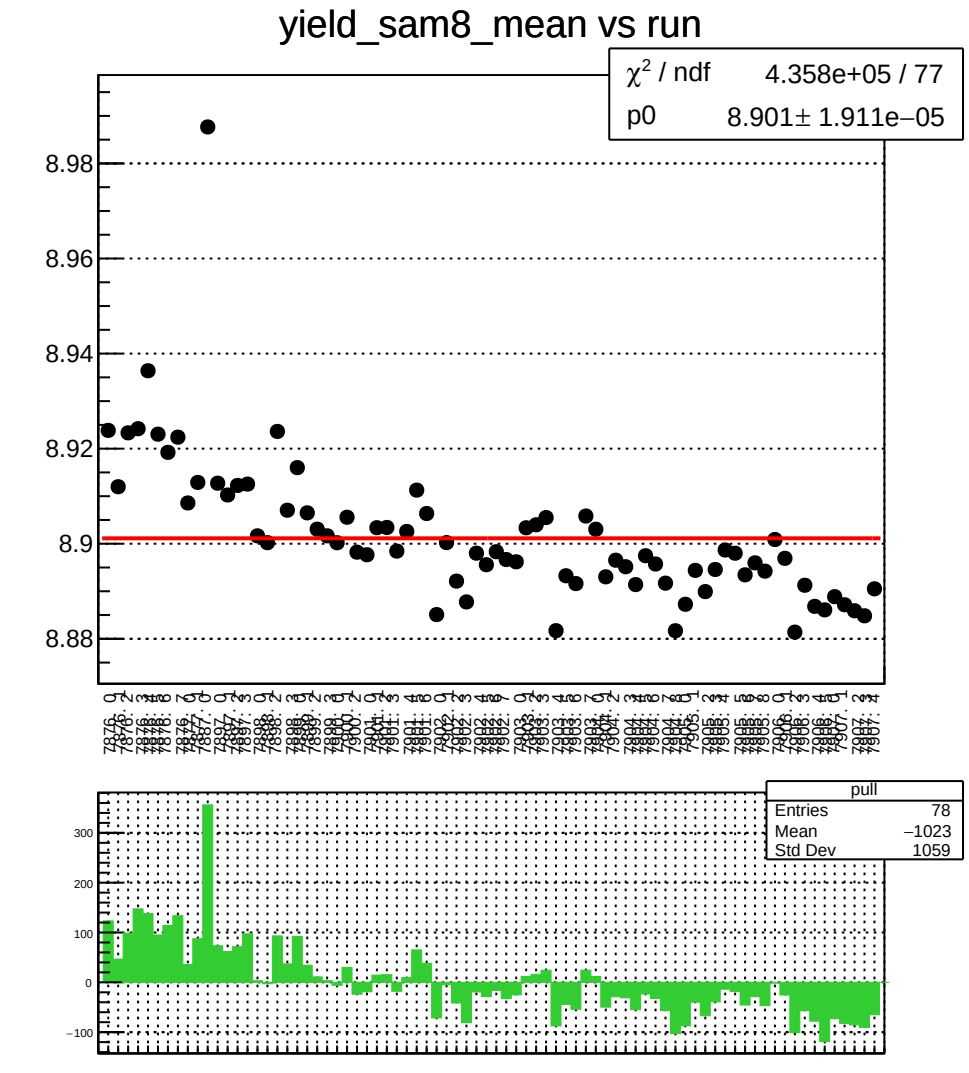

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

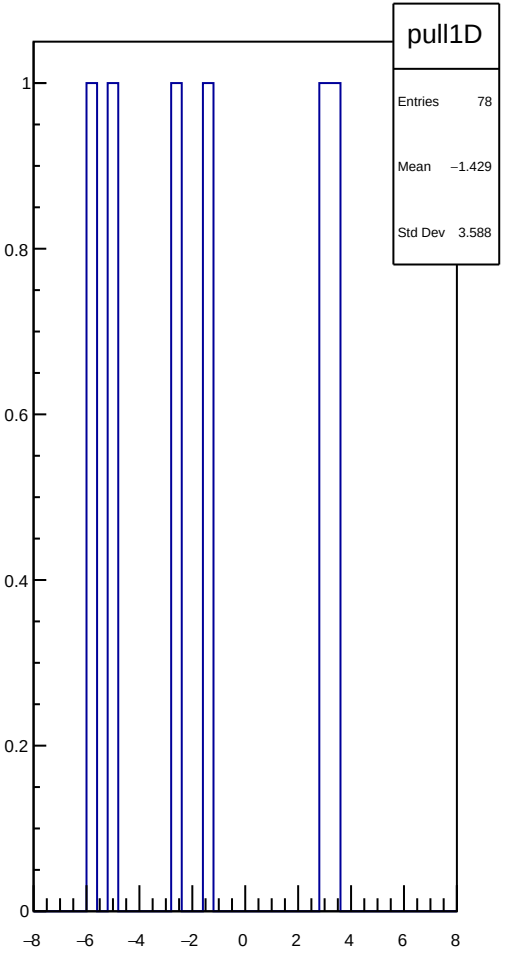

yield_sam6_rms vs run
χ² / ndf 3.664e+04 / 77
p0 0.0506 ± 4.161e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

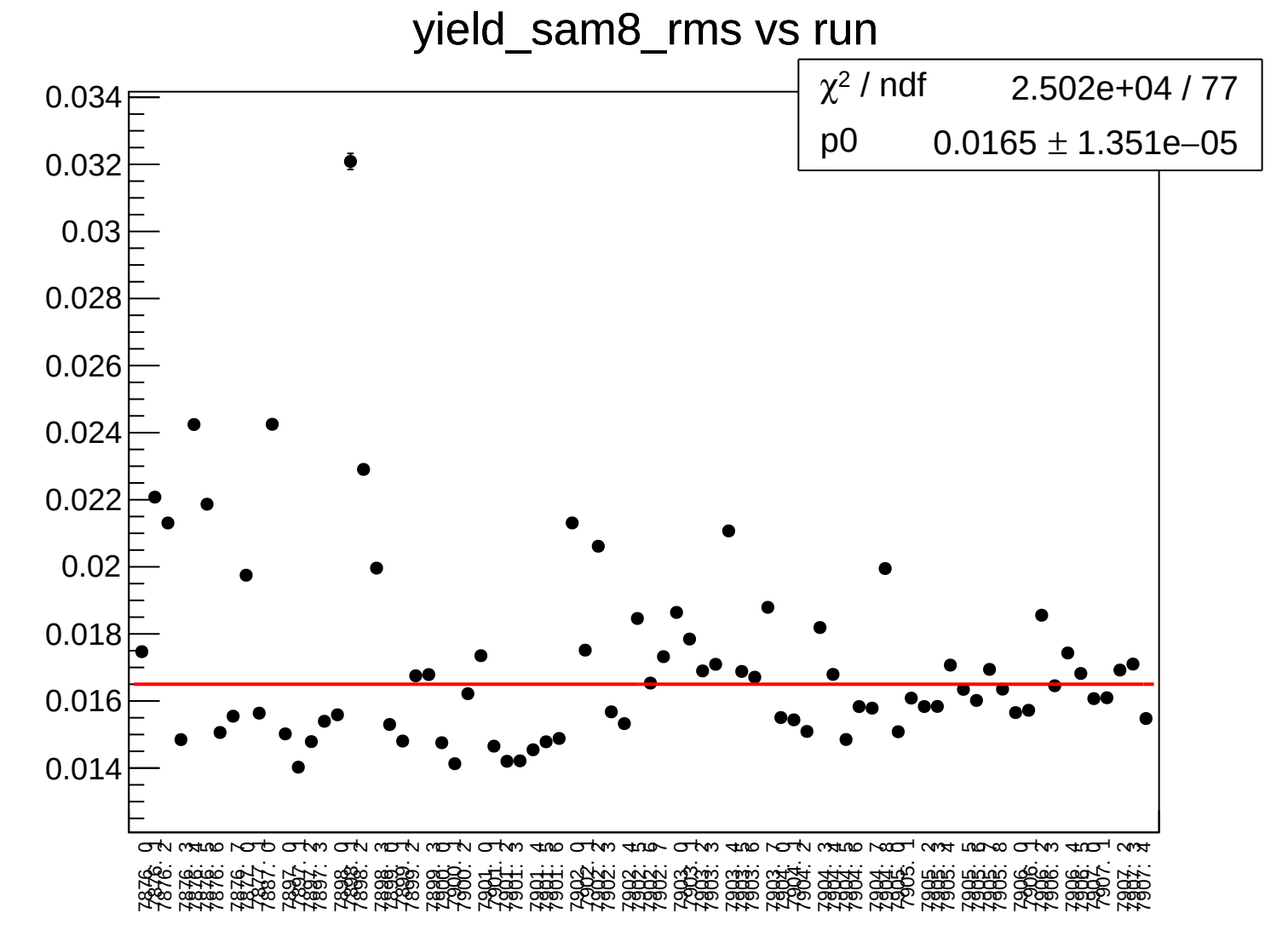

yield_sam7_mean vs run
χ² / ndf 5.295e+05 / 77
p0 2.367 ± 8.882e−06
2.39
2.385
2.38
2.375
2.37
2.365
2.36
2.355
pull
Entries 78
Mean −314.3
Std Dev 340.4
250
200
150
100
50
0
−50
−100
−150

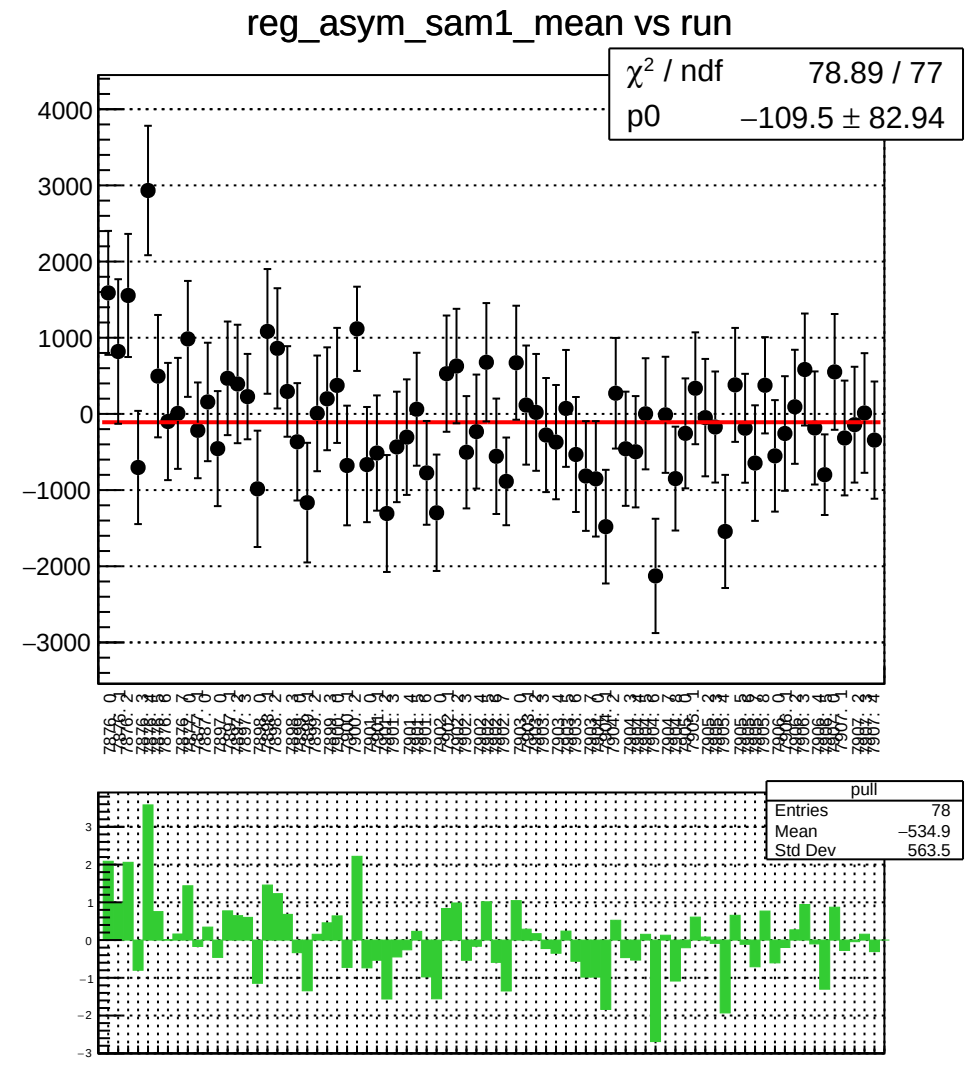

pull1D
Entries 78
Mean 0.1086
Std Dev 4.574
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

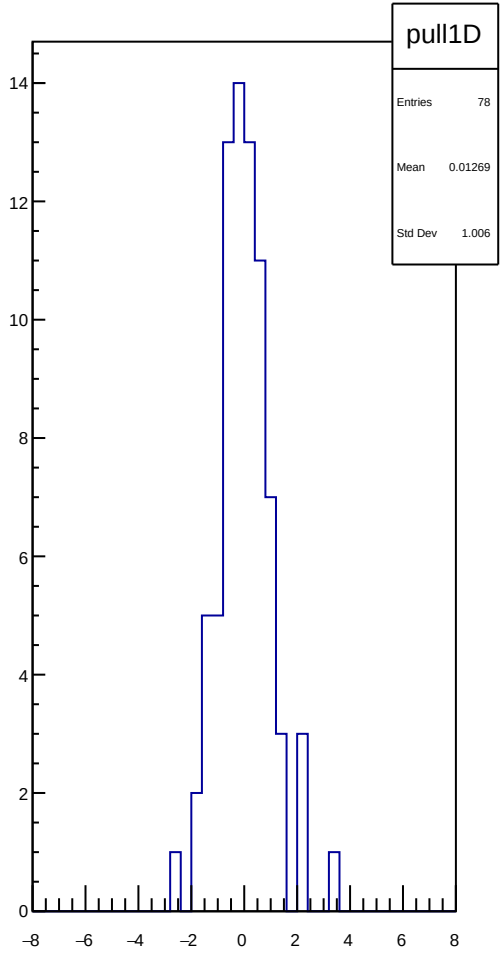

yield_sam7_rms vs run
χ^2 / ndf 2.201e+04 / 77
p0 0.007677 ± 6.281e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

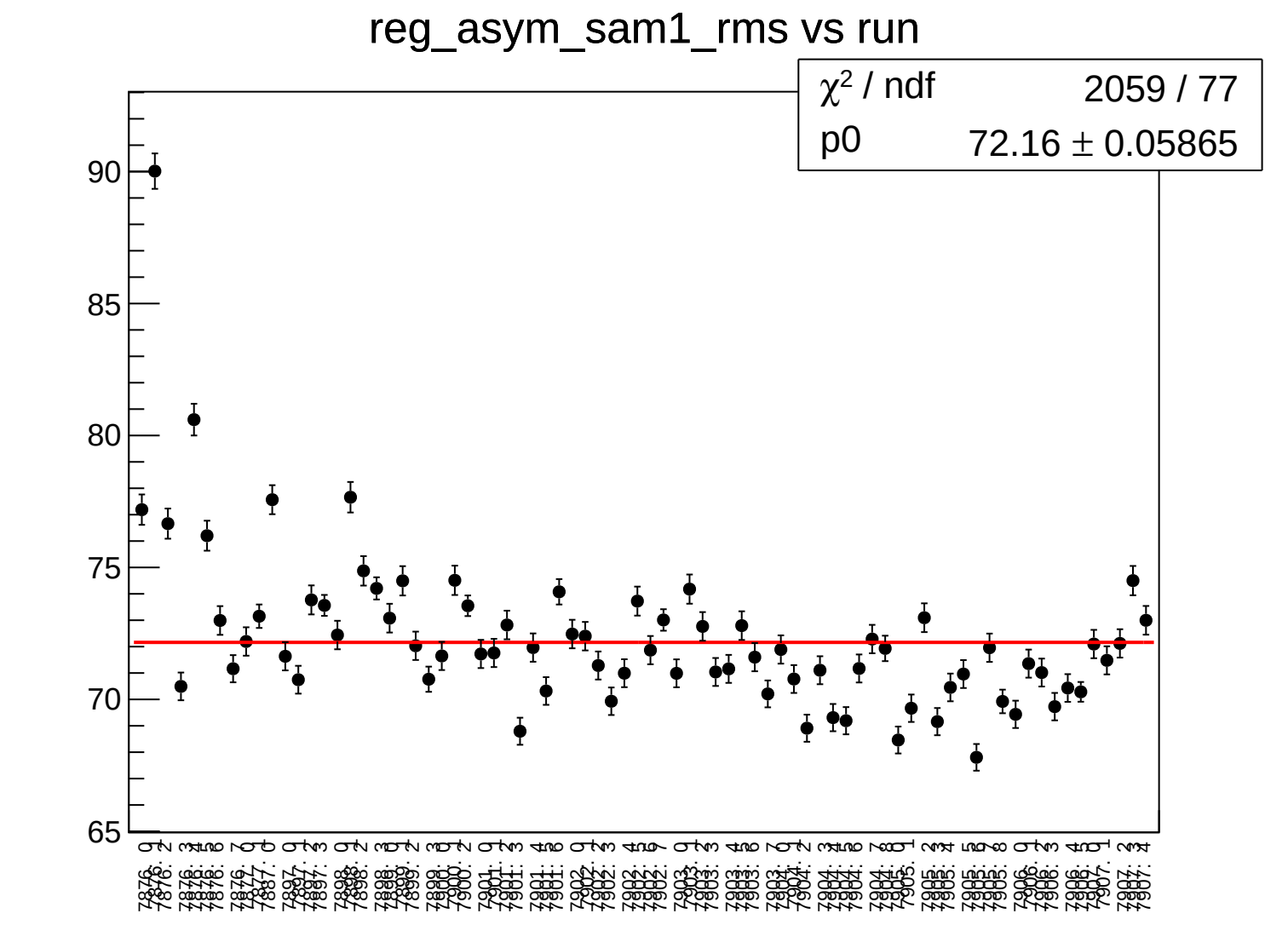

yield_sam8_mean vs run
χ² / ndf 4.358e+05 / 77
p0 8.901± 1.911e−05
8.98
8.96
8.94
8.92
8.9
8.88
pull
Entries 78
Mean −1023
Std Dev 1059
300
200
100
0
−100

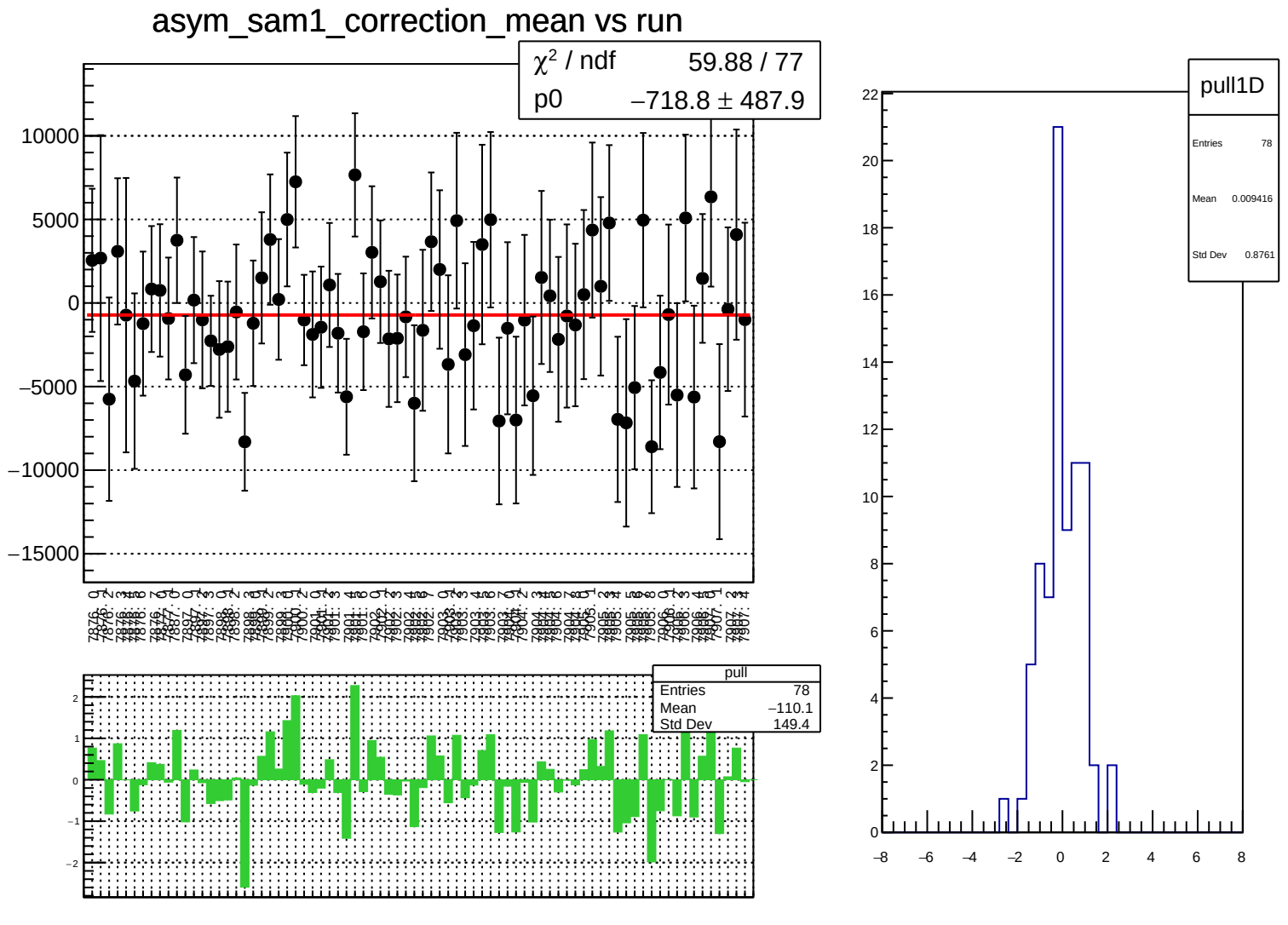

pull1D
Entries 78
Mean −1.429
Std Dev 3.588
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

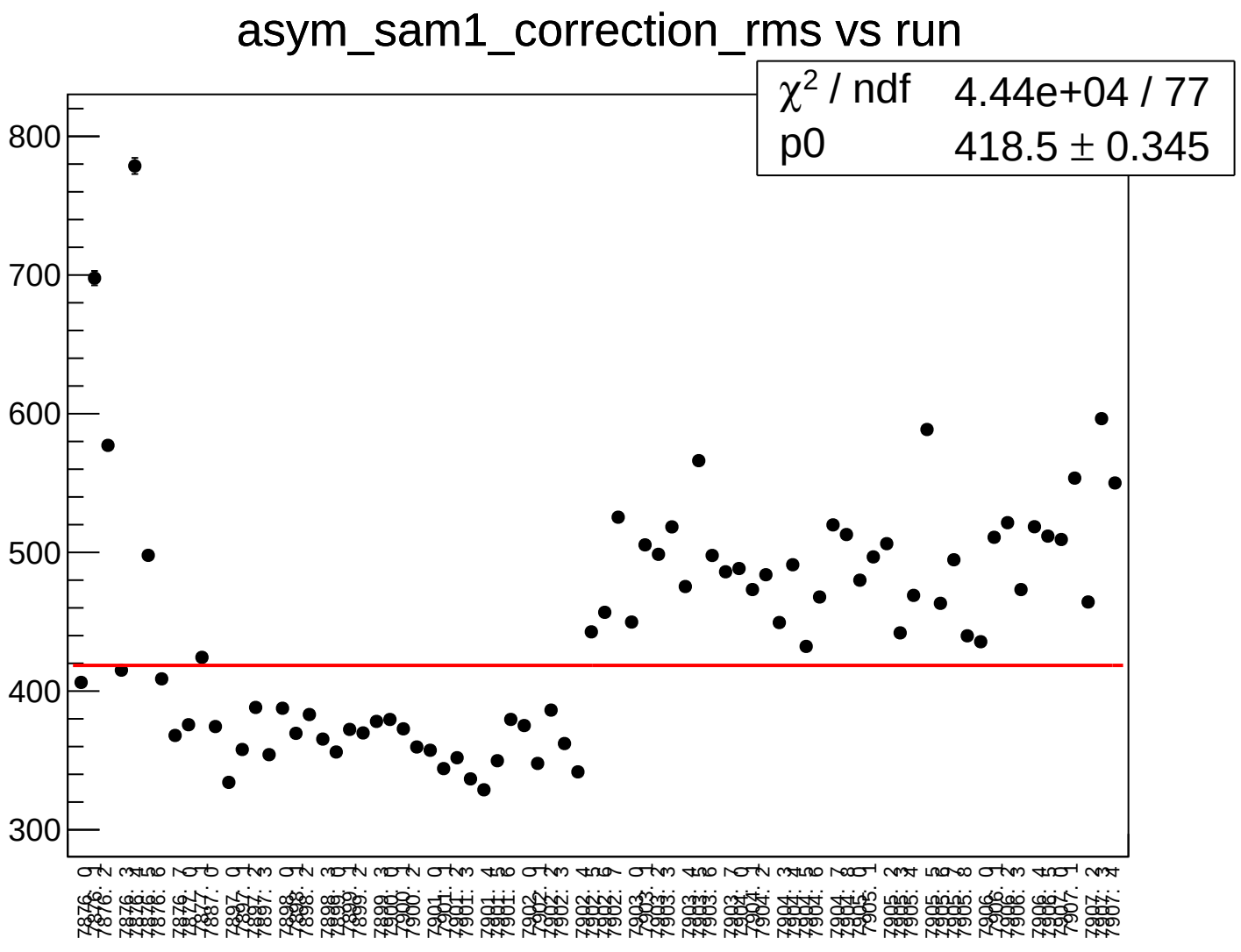

yield_sam8_rms vs run
χ² / ndf 2.502e+04 / 77
p0 0.0165 ± 1.351e−05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

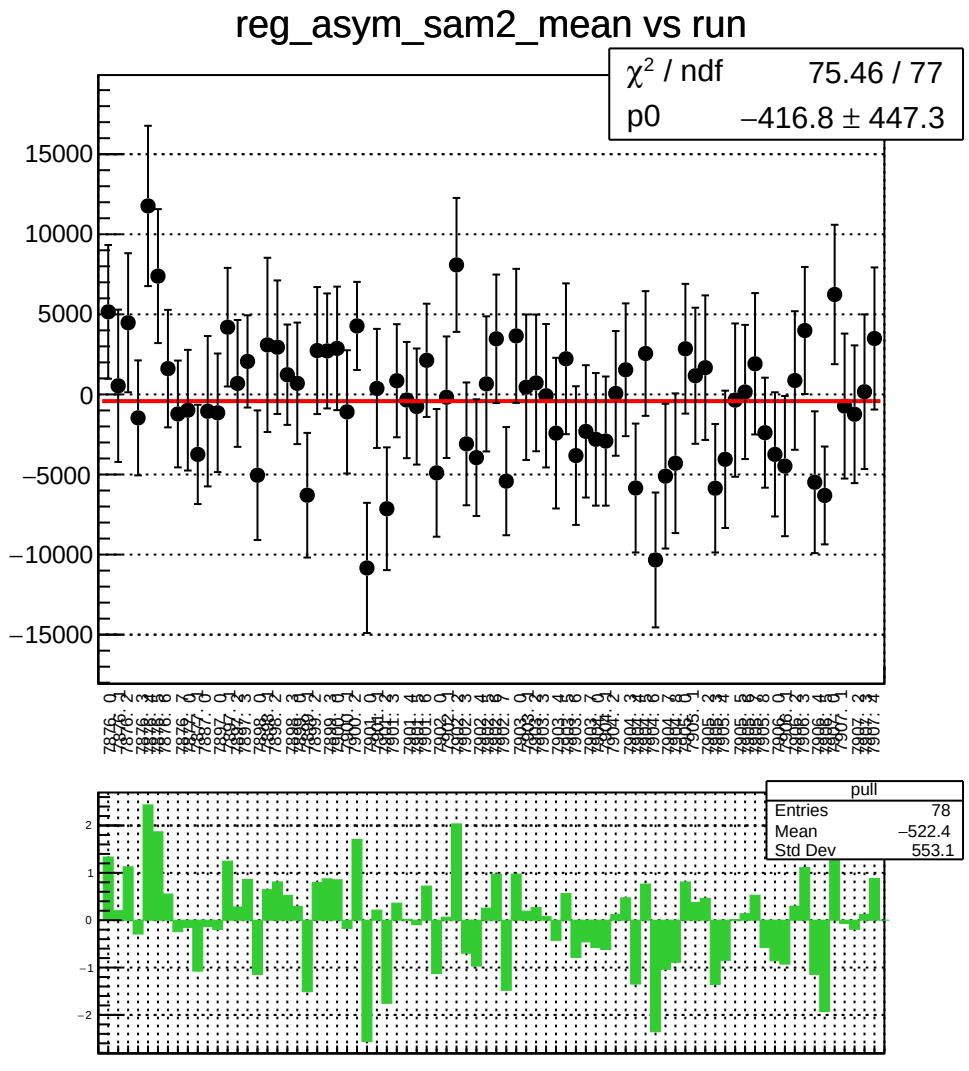

reg_asym_sam1_mean vs run
χ² / ndf 78.89 / 77
p0 −109.5 ± 82.94
pull
Entries 78
Mean −534.9
Std Dev 563.5

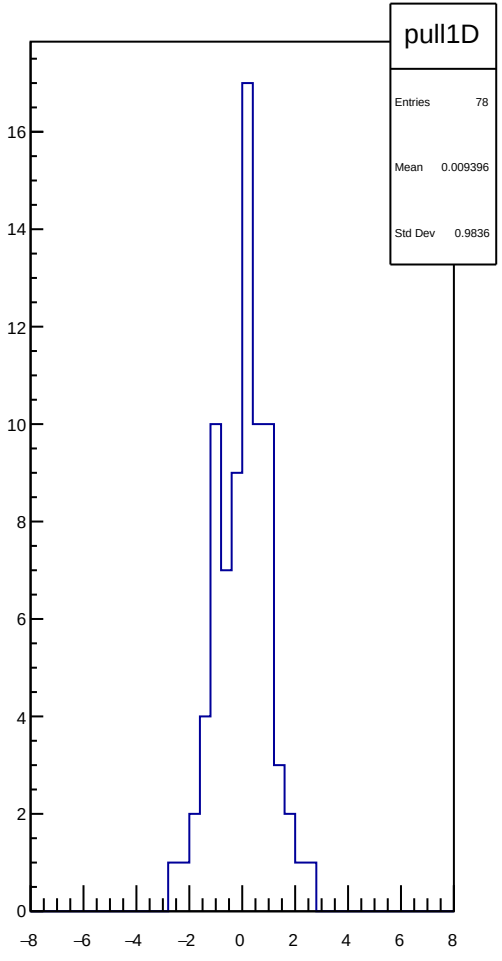

pull1D
Entries 78
Mean 0.01269
Std Dev 1.006

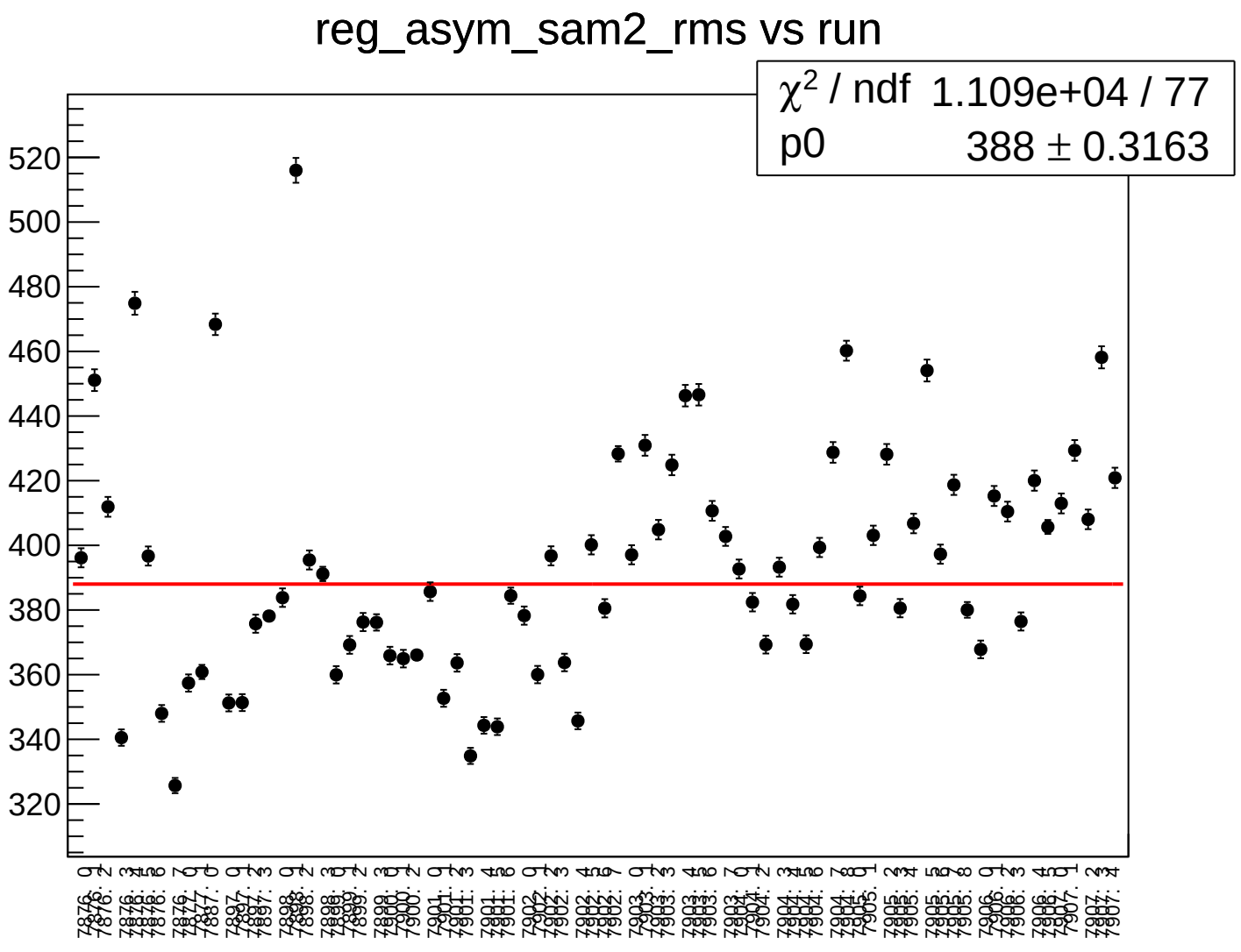

reg_asym_sam1_rms vs run
χ^2 / ndf 2059 / 77
p0 72.16 ± 0.05865
90
85
80
75
70
65

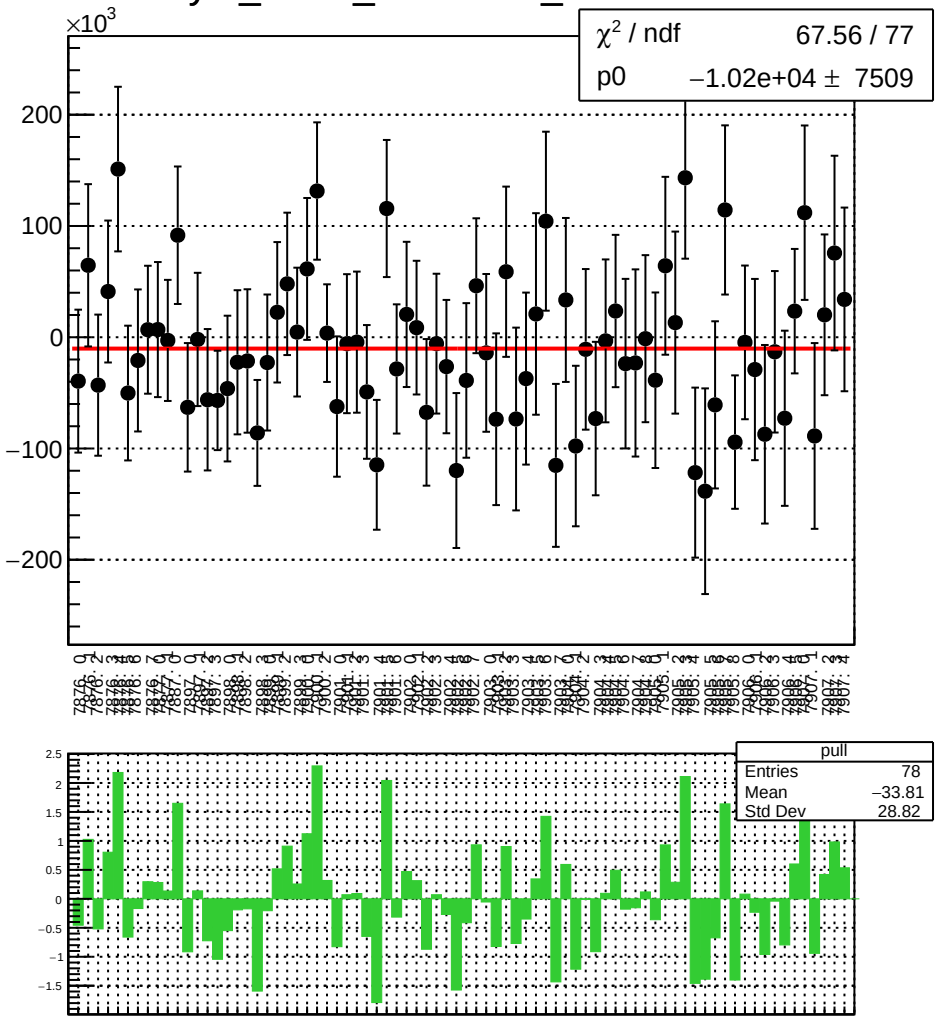

asym_sam1_correction_mean vs run
χ² / ndf 59.88 / 77
p0 −718.8 ± 487.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean −110.1
Std Dev 149.4
2
1
0
−1
−2
pull1D
Entries 78
Mean 0.009416
Std Dev 0.8761
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

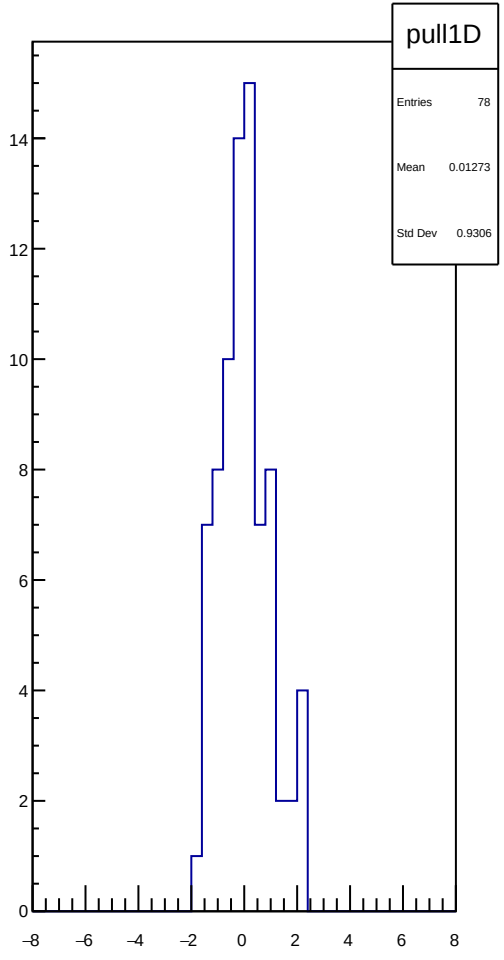

asym_sam1_correction_rms vs run
χ^2 / ndf 4.44e+04 / 77
p0 418.5 ± 0.345
800
700
600
500
400
300

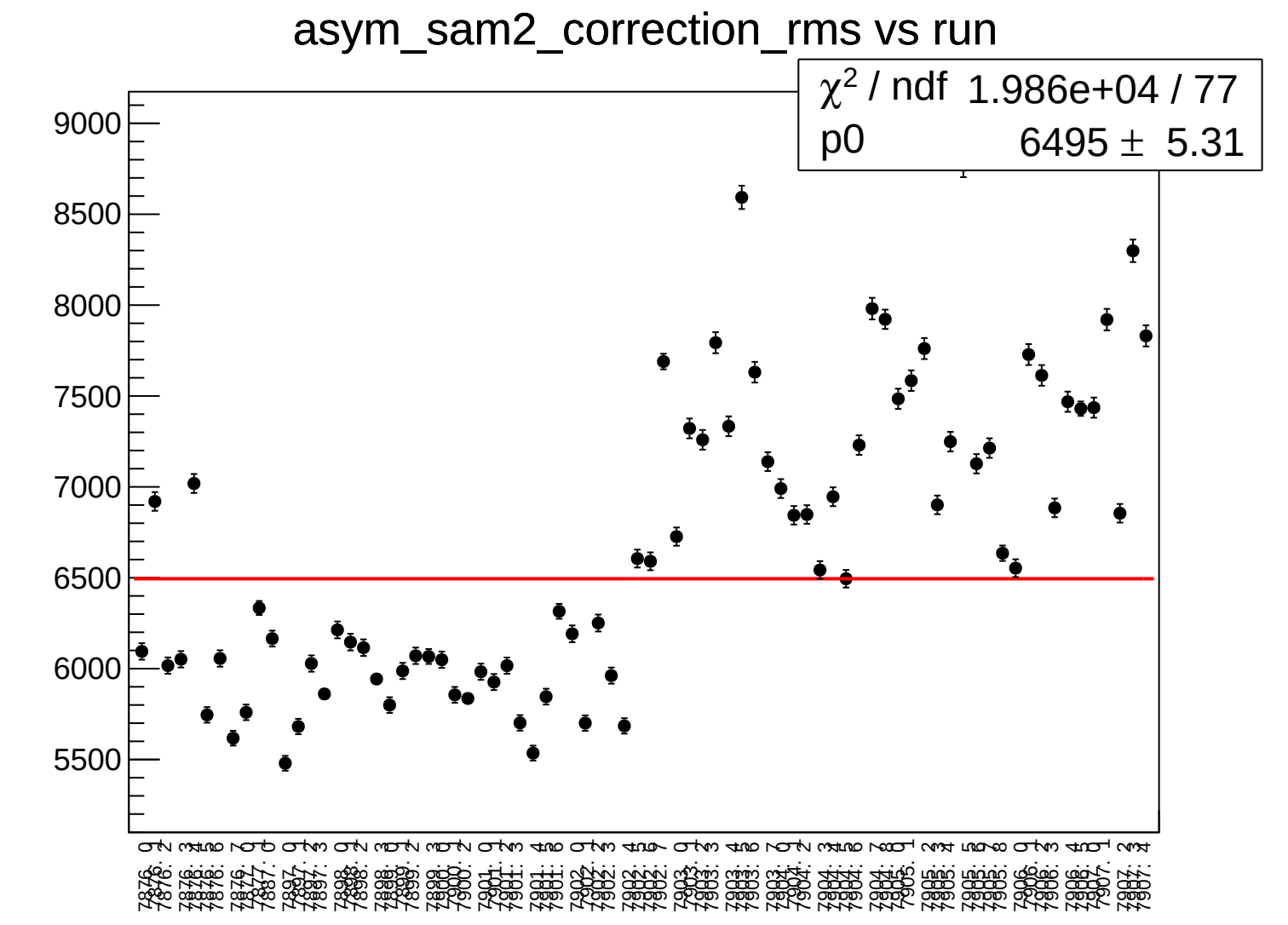

reg_asym_sam2_mean vs run
χ² / ndf 75.46 / 77
p0 −416.8 ± 447.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean −522.4
Std Dev 553.1
2
1
0
−1
−2

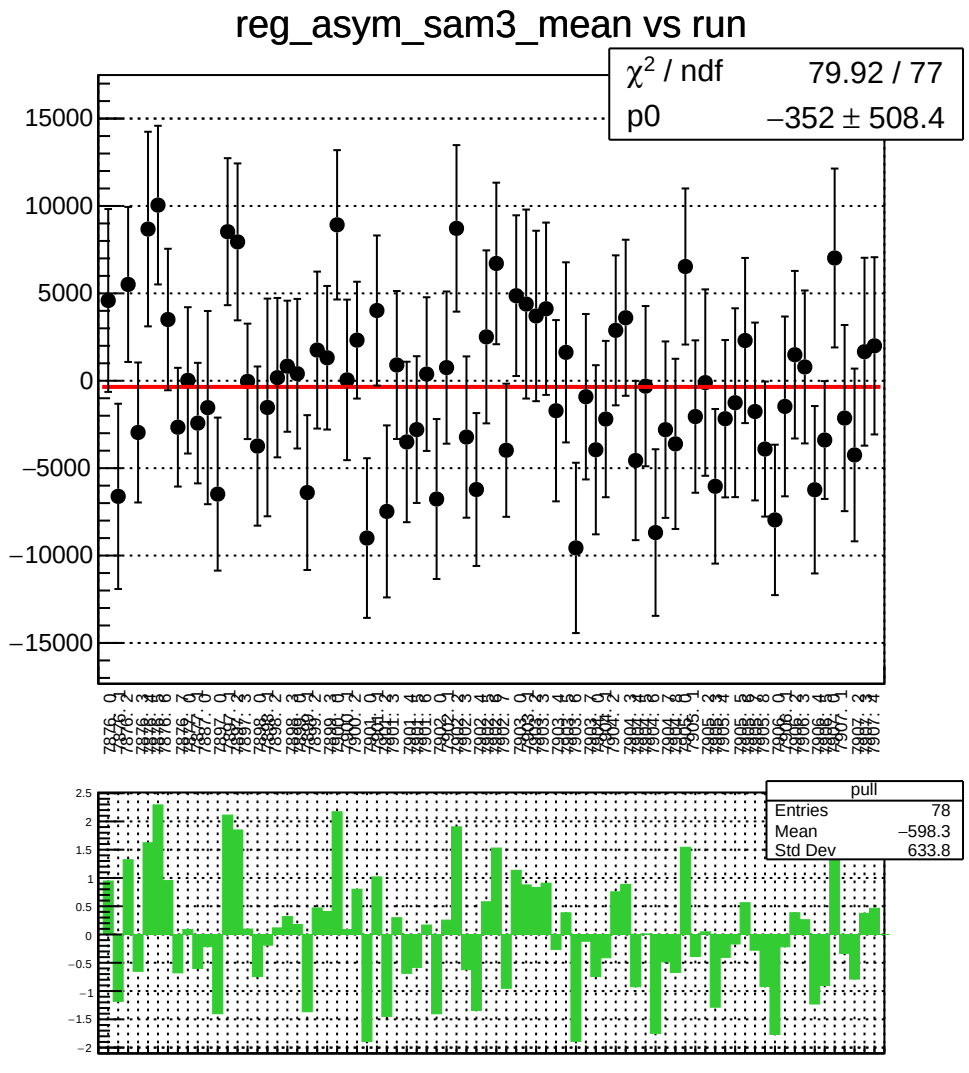

pull1D
Entries 78
Mean 0.009396
Std Dev 0.9836
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

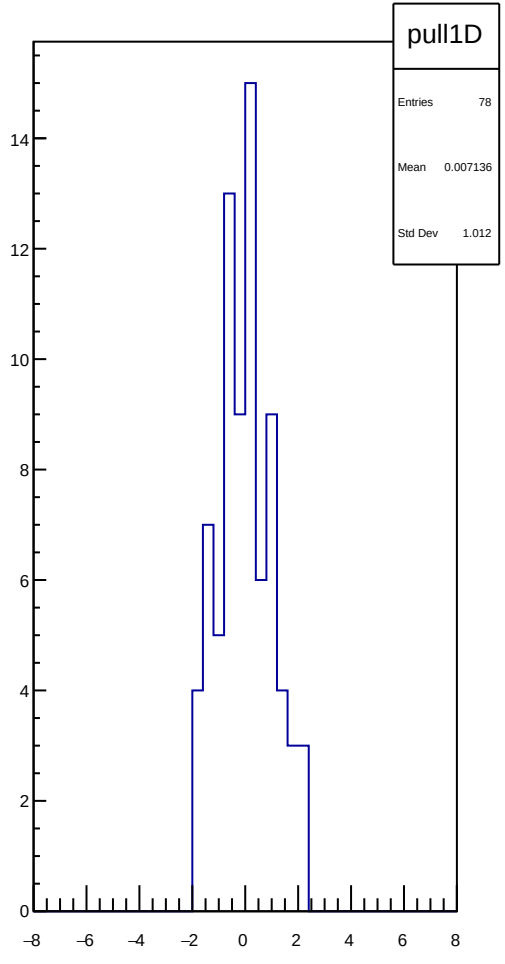

reg_asym_sam2_rms vs run
χ^2 / ndf 1.109e+04 / 77
p0 388 ± 0.3163
520
500
480
460
440
420
400
380
360
340
320

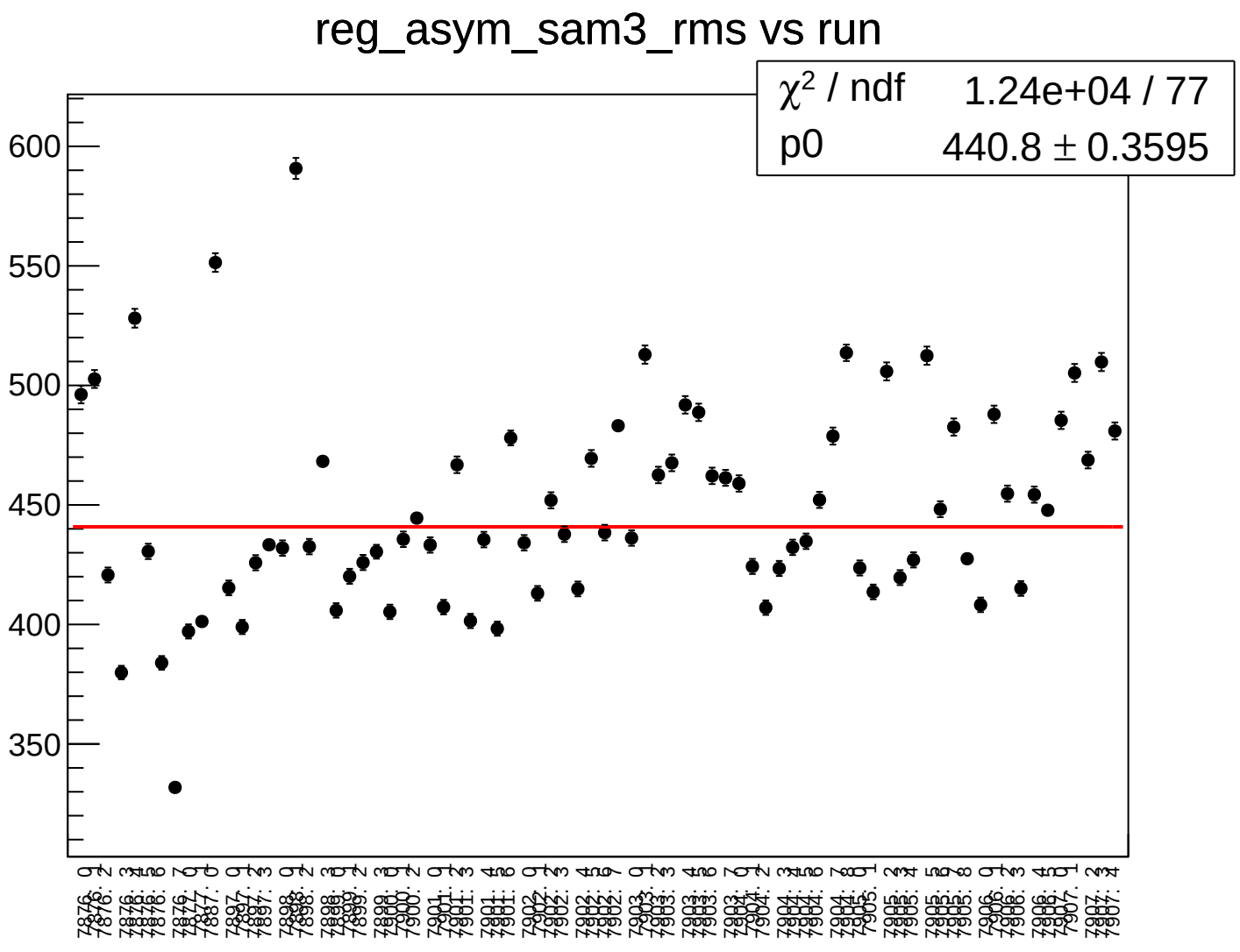

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 67.56 / 77
p0 −1.02e+04 ± 7509
200
100
0
−100
−200
pull
Entries 78
Mean −33.81
Std Dev 28.82
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

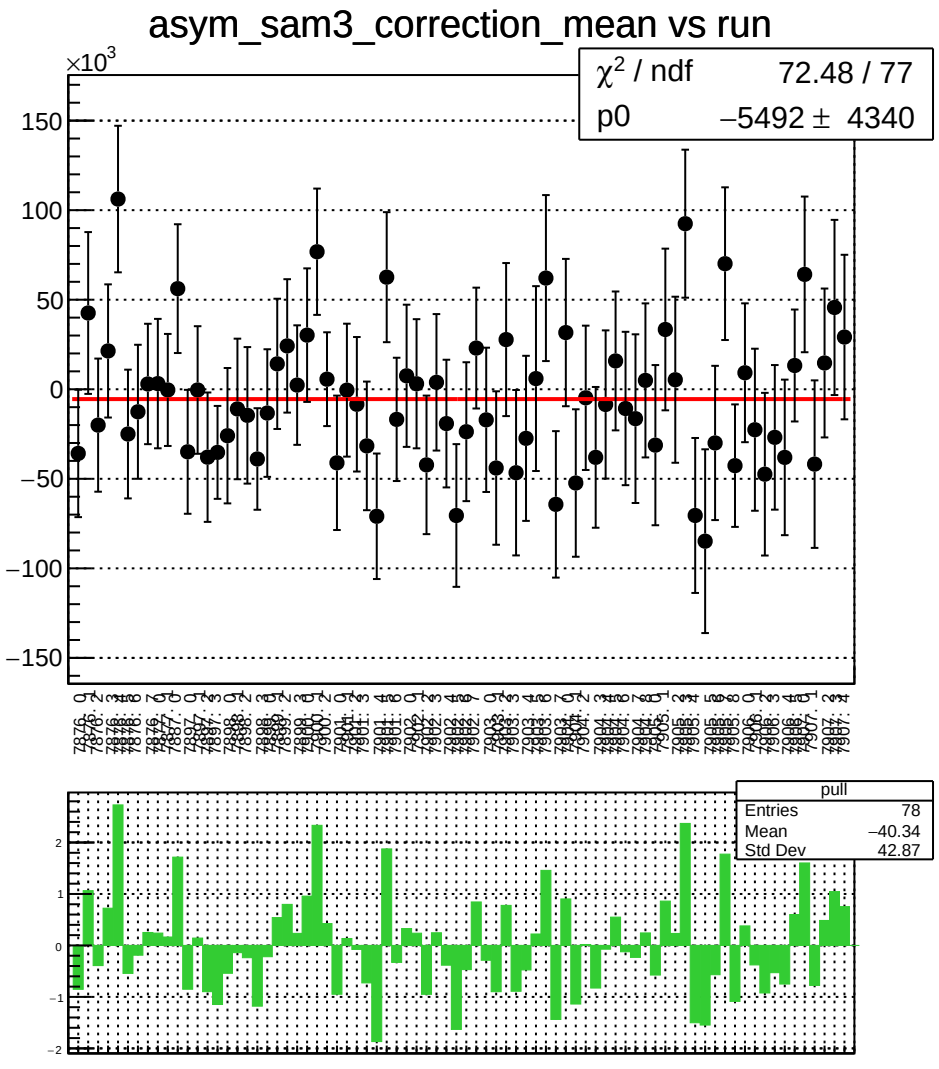

pull1D
Entries 78
Mean 0.01273
Std Dev 0.9306
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

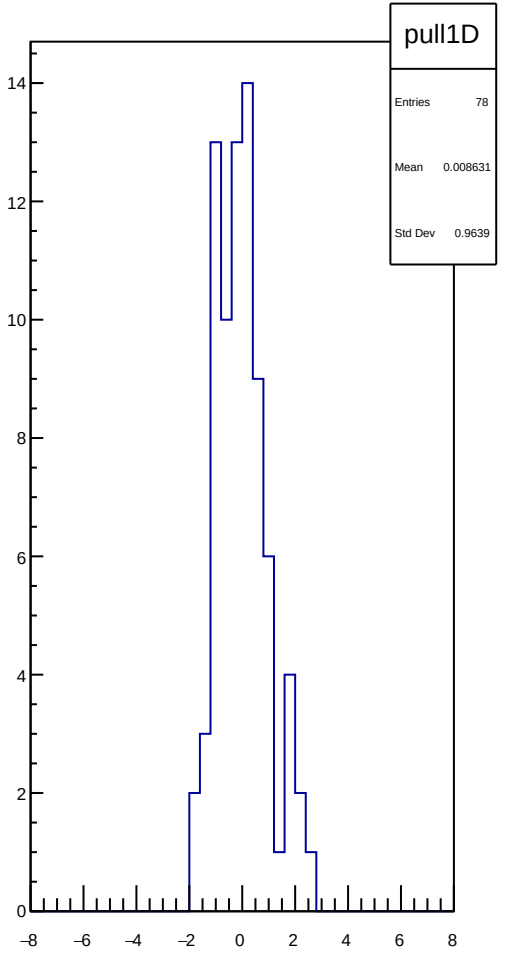

asym_sam2_correction_rms vs run
χ² / ndf 1.986e+04 / 77
p0 6495 ± 5.31
9000
8500
8000
7500
7000
6500
6000
5500

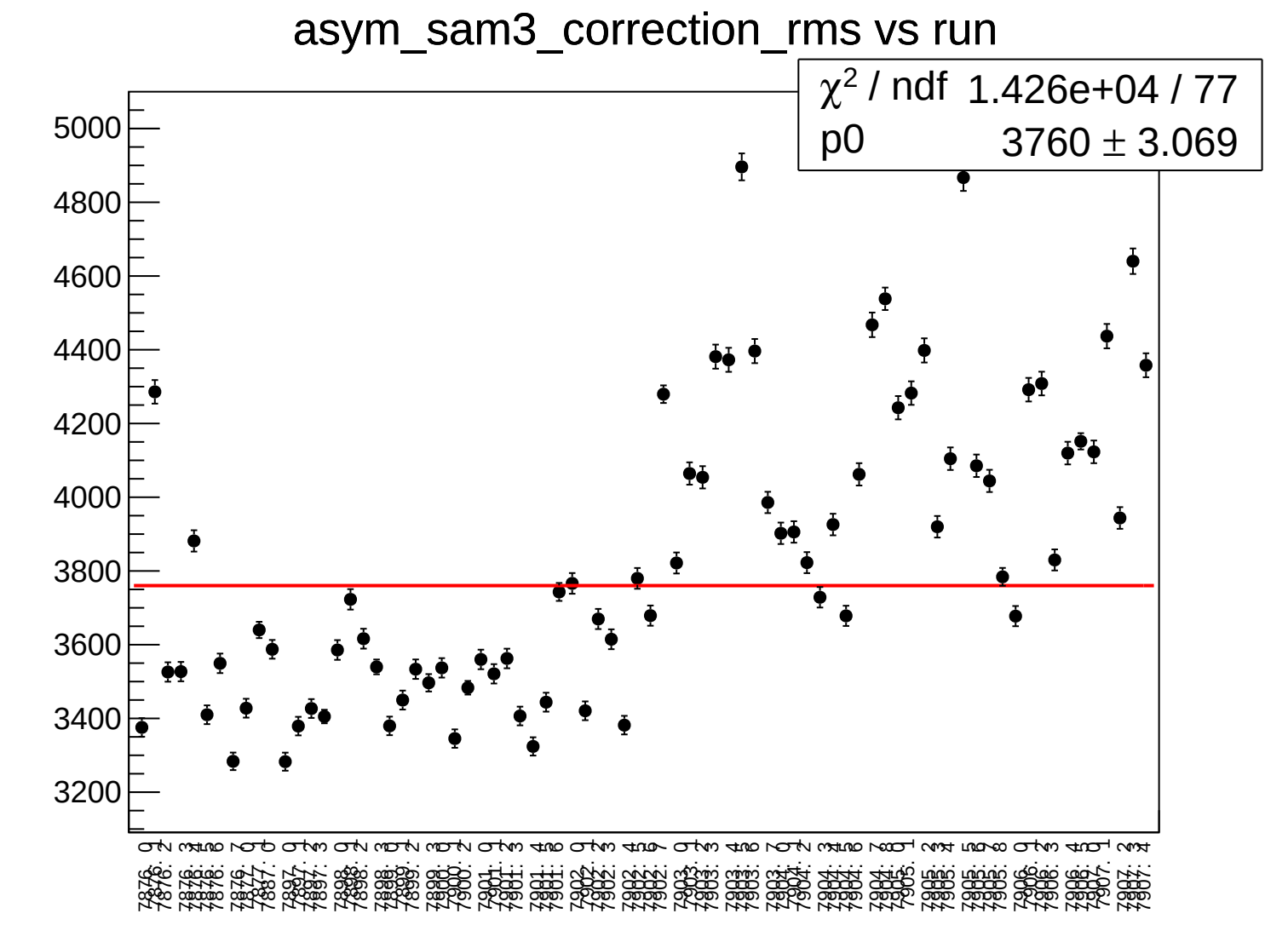

reg_asym_sam3_mean vs run
χ² / ndf 79.92 / 77
p0 −352 ± 508.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean −598.3
Std Dev 633.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

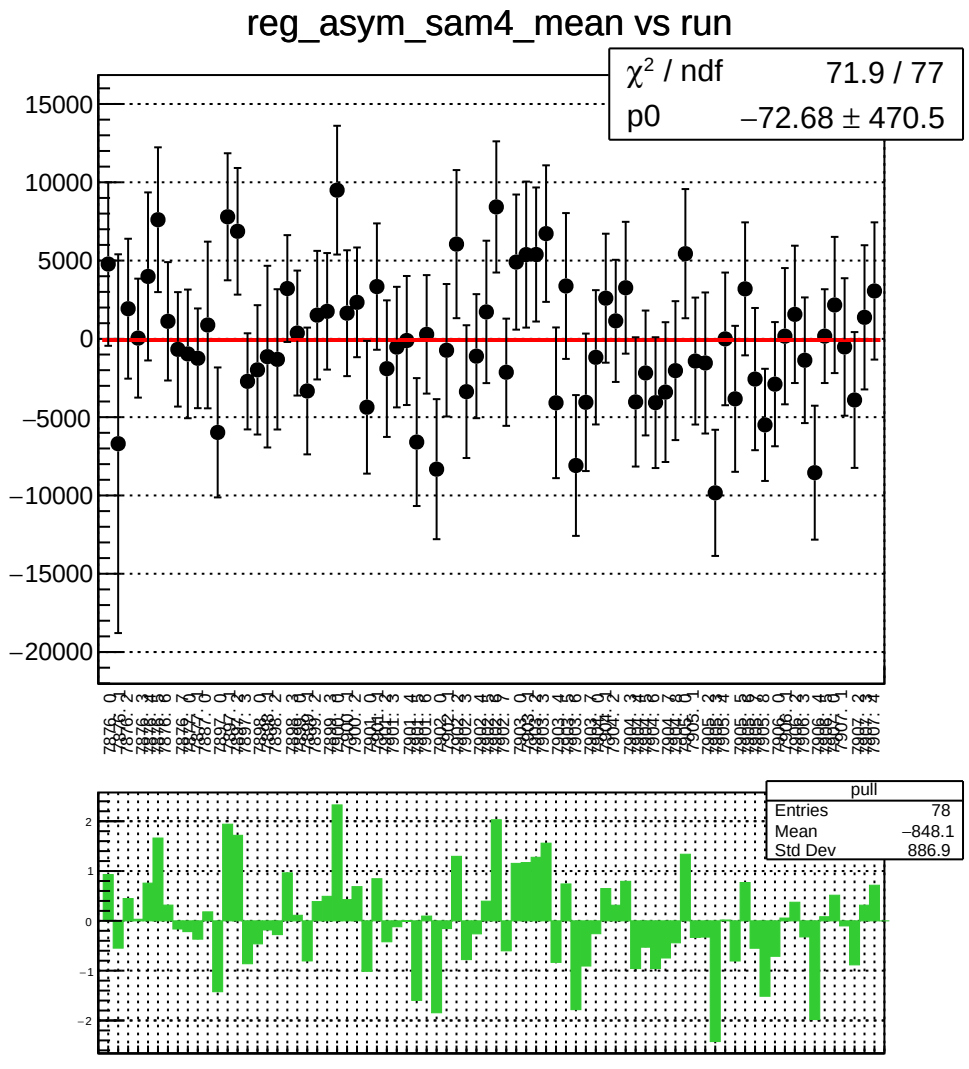

pull1D
Entries 78
Mean 0.007136
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

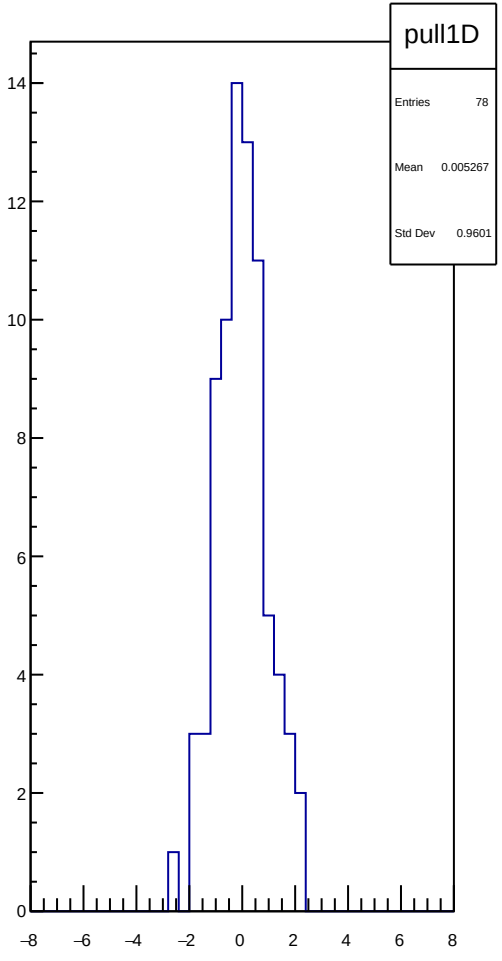

reg_asym_sam3_rms vs run
χ² / ndf 1.24e+04 / 77
p0 440.8 ± 0.3595
600
550
500
450
400
350

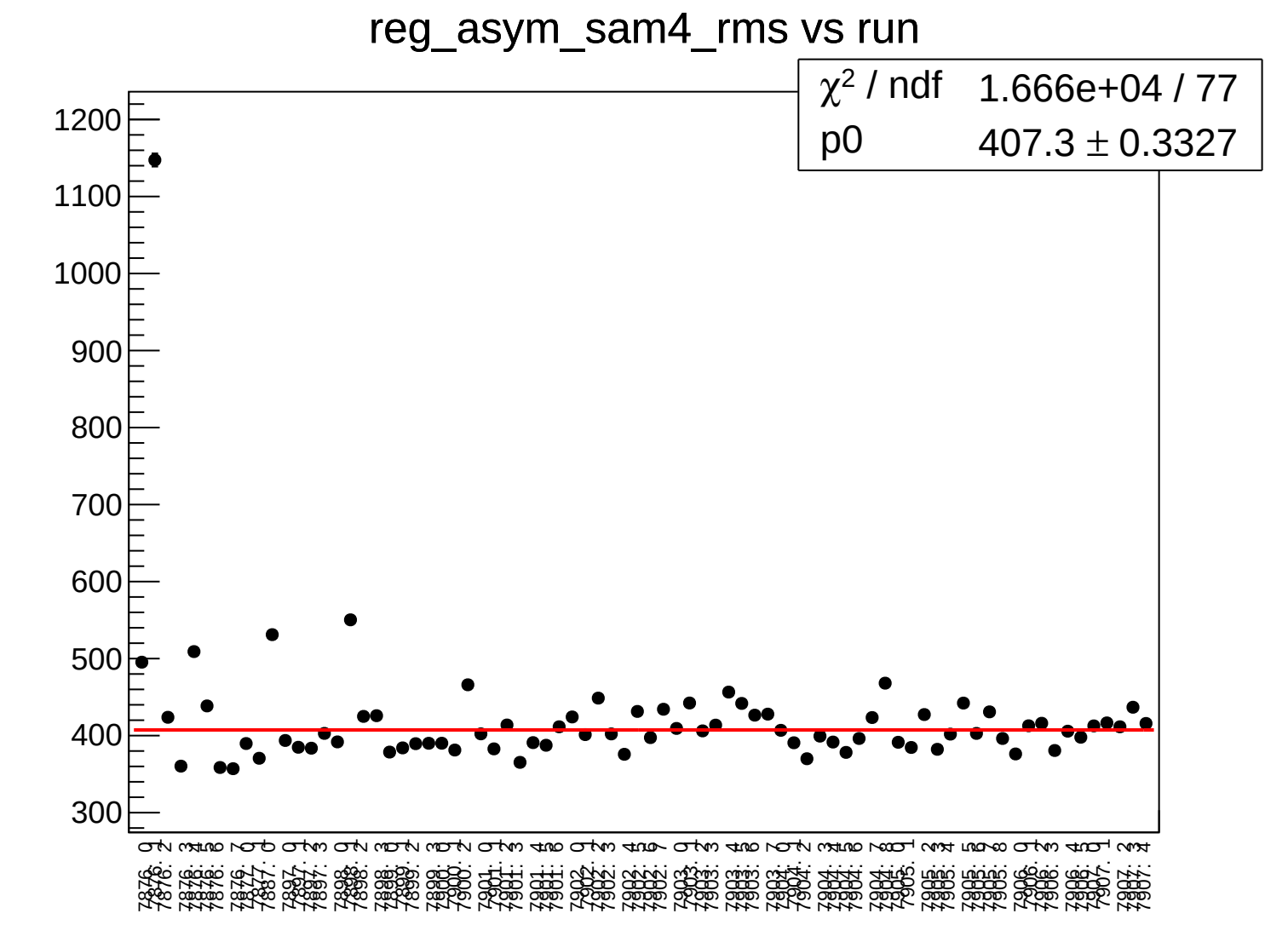

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 72.48 / 77
p0 −5492 ± 4340
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −40.34
Std Dev 42.87
2
1
0
−1
−2

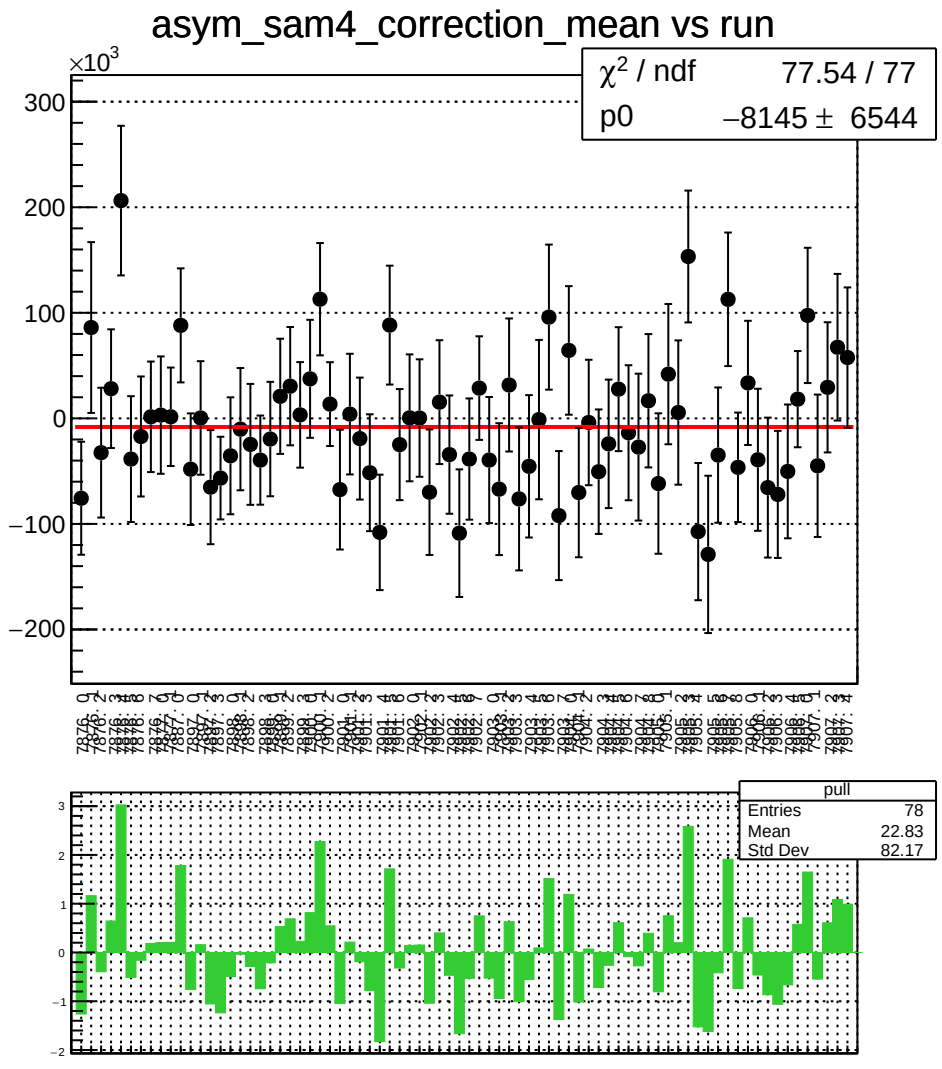

pull1D
Entries 78
Mean 0.008631
Std Dev 0.9639
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

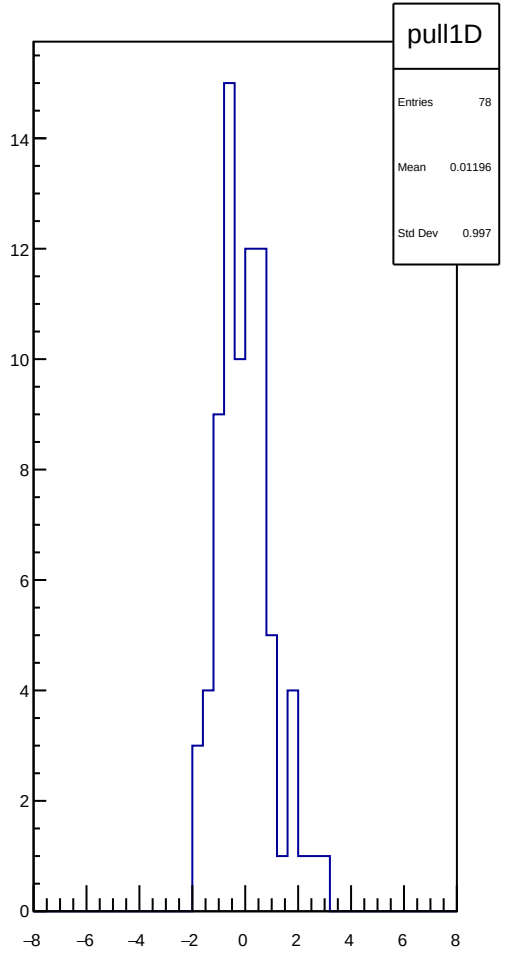

asym_sam3_correction_rms vs run
χ^2 / ndf 1.426e+04 / 77
p0 3760 ± 3.069
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

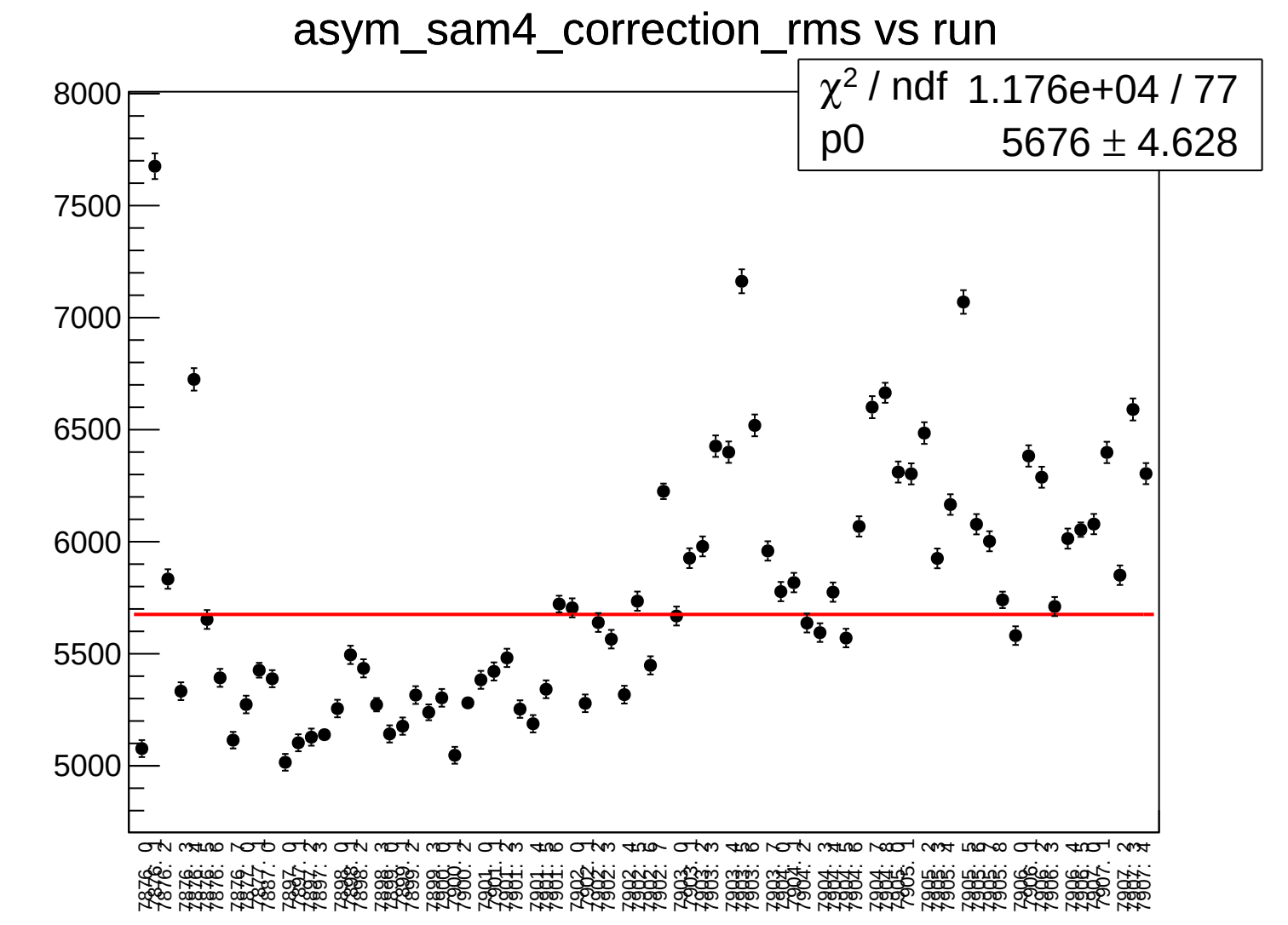

reg_asym_sam4_mean vs run
χ² / ndf 71.9 / 77
p0 −72.68 ± 470.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 78
Mean −848.1
Std Dev 886.9
2
1
0
−1
−2

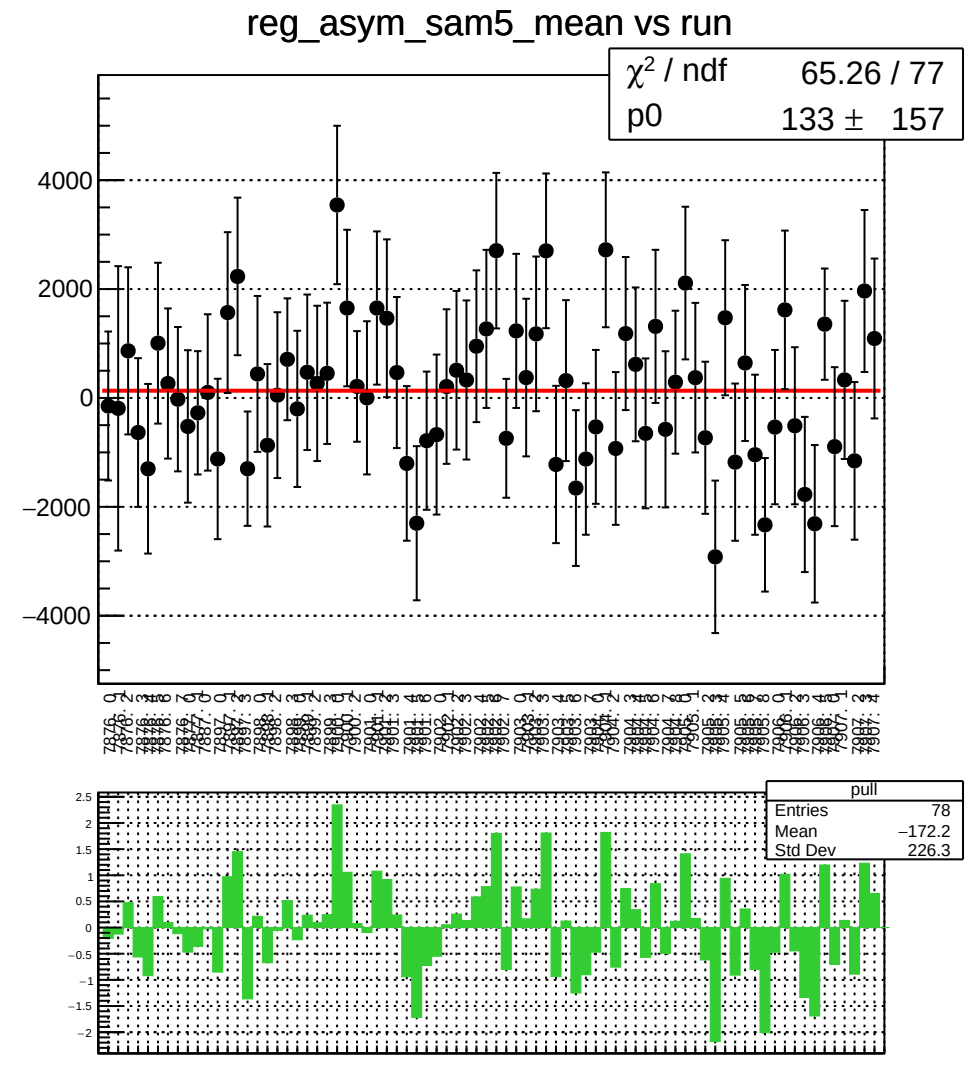

pull1D
Entries 78
Mean 0.005267
Std Dev 0.9601
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

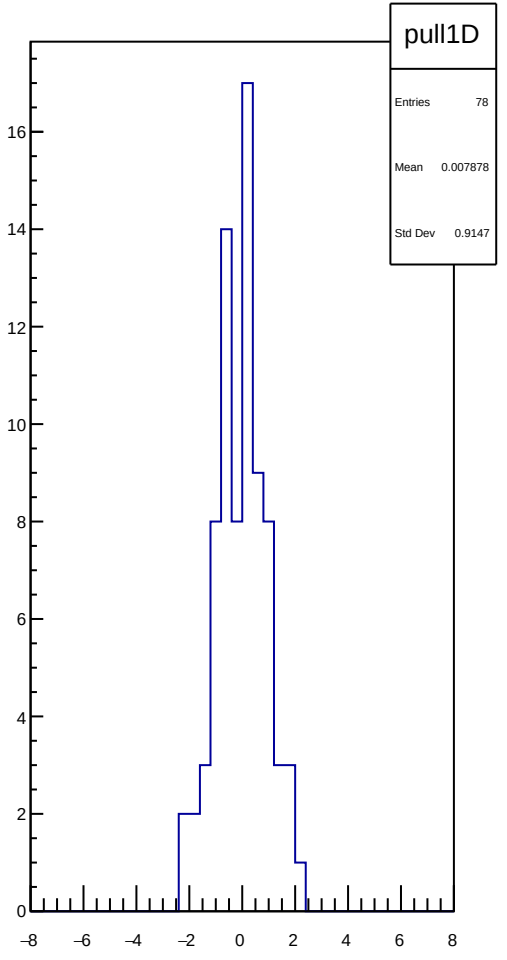

reg_asym_sam4_rms vs run
χ² / ndf 1.666e+04 / 77
p0 407.3 ± 0.3327
1200
1100
1000
900
800
700
600
500
400
300

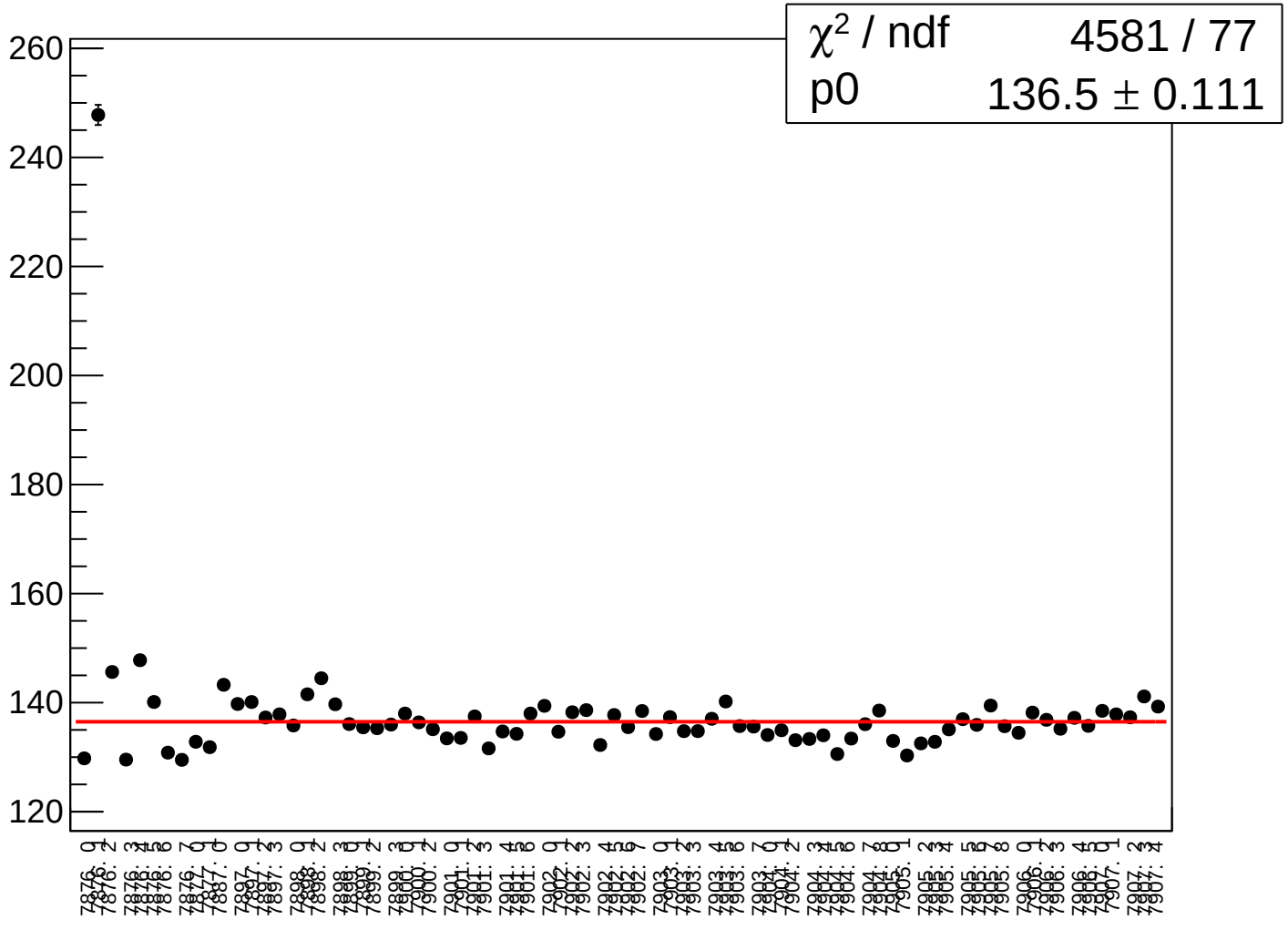

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 77.54 / 77
p0 −8145 ± 6544
300
200
100
0
−100
−200
pull
Entries 78
Mean 22.83
Std Dev 82.17
3
2
1
0
−1
−2

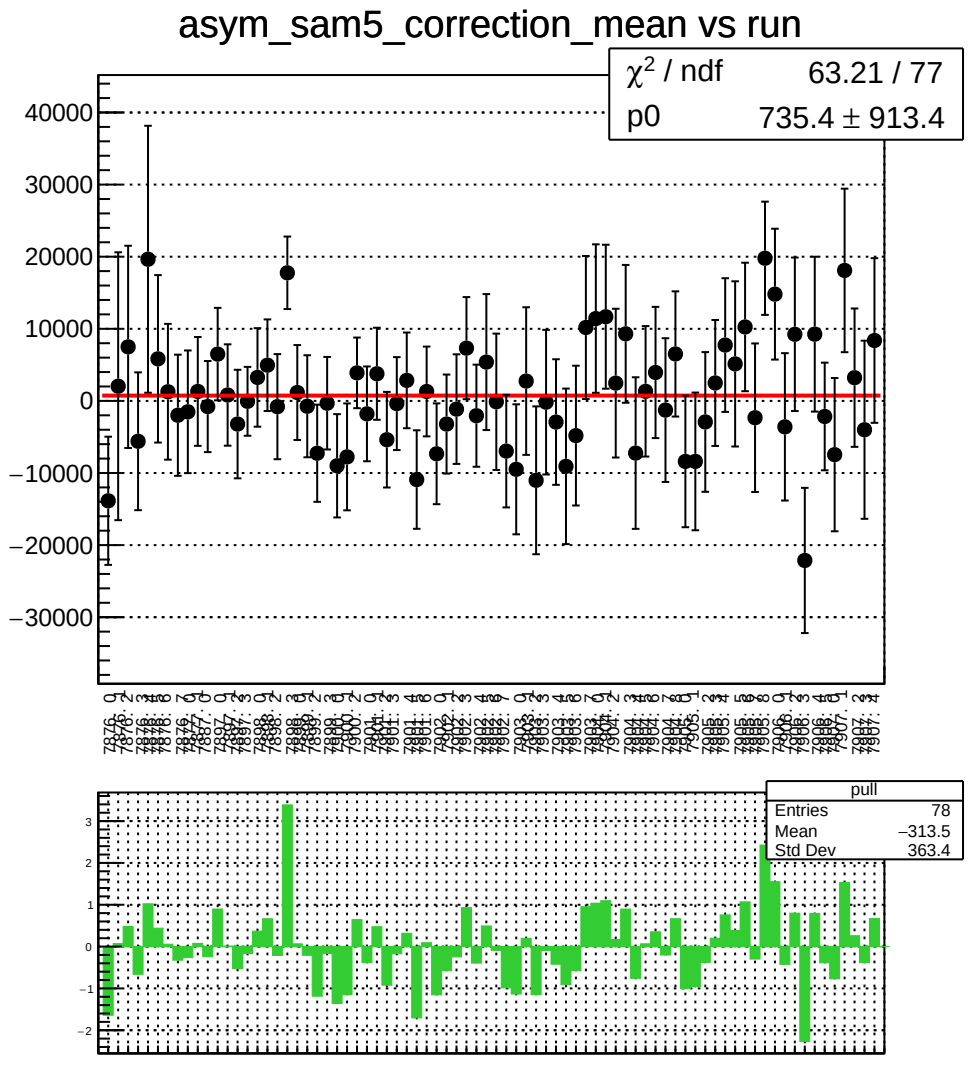

pull1D
Entries 78
Mean 0.01196
Std Dev 0.997
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

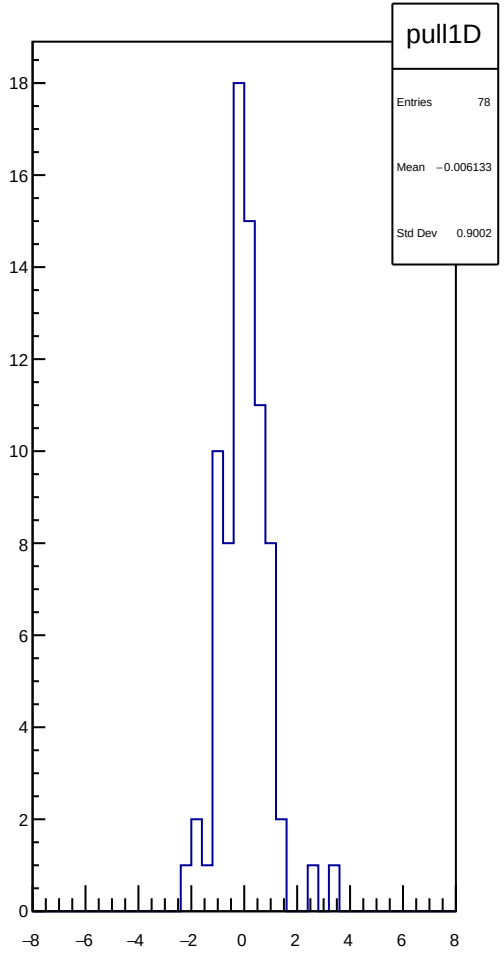

asym_sam4_correction_rms vs run
χ² / ndf 1.176e+04 / 77
p0 5676 ± 4.628
8000
7500
7000
6500
6000
5500
5000

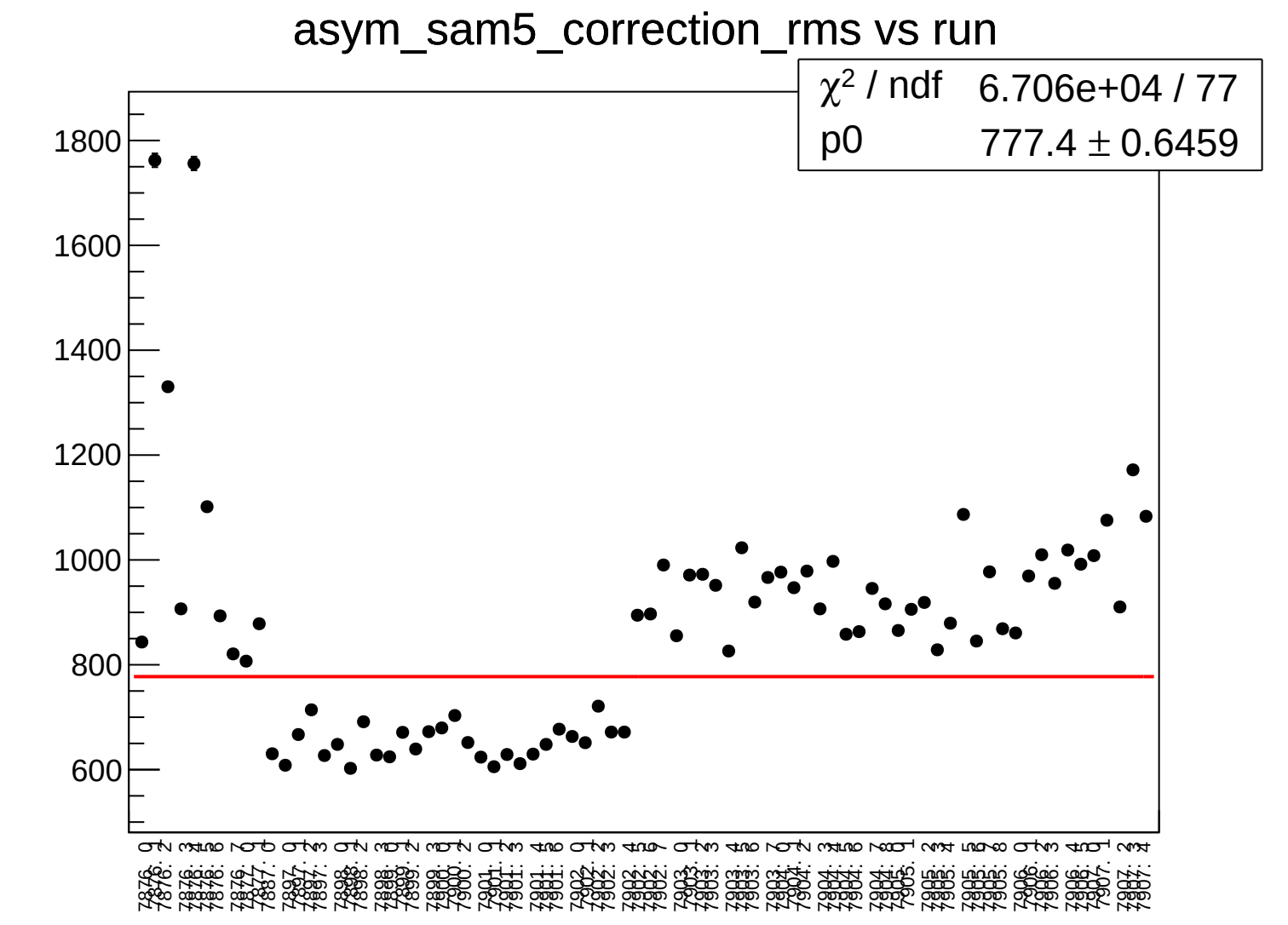

reg_asym_sam5_mean vs run
χ² / ndf 65.26 / 77
p0 133 ± 157
4000
2000
0
−2000
−4000
pull
Entries 78
Mean −172.2
Std Dev 226.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

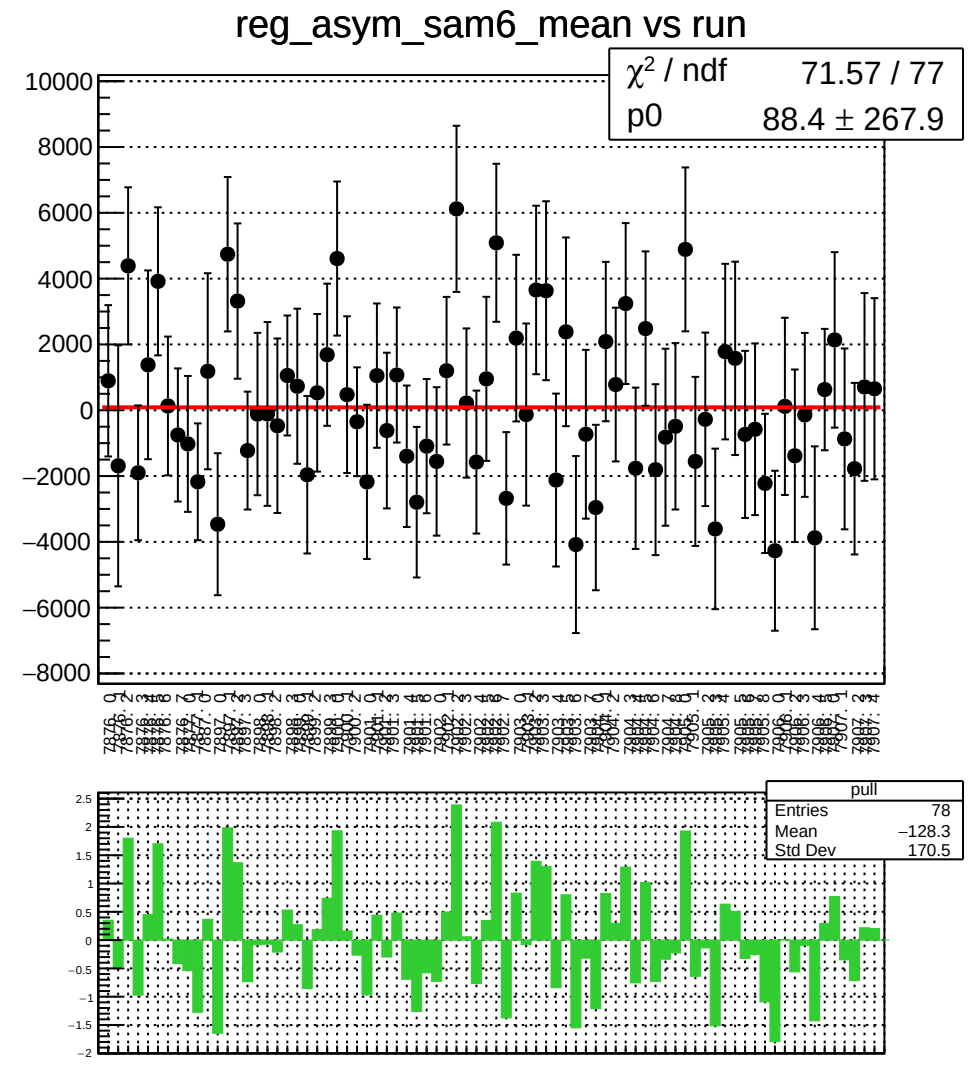

pull1D
Entries 78
Mean 0.007878
Std Dev 0.9147
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

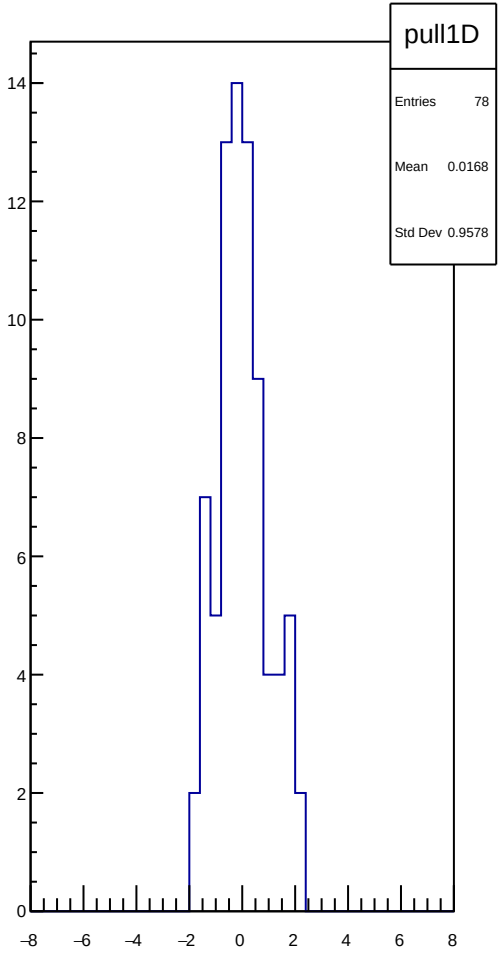

reg_asym_sam5_rms vs run
χ² / ndf 4581 / 77
p0 136.5 ± 0.111
260
240
220
200
180
160
140
120

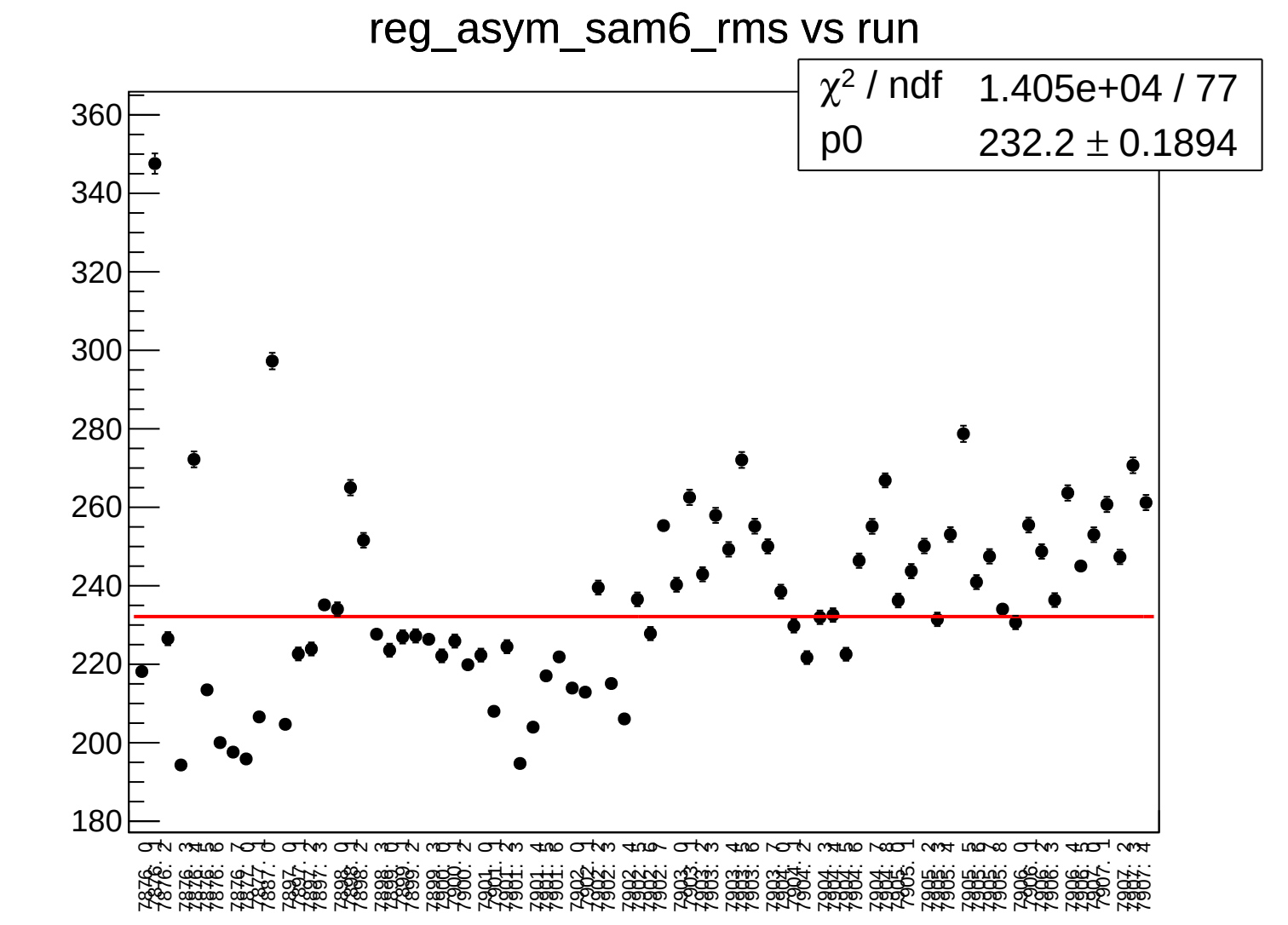

asym_sam5_correction_mean vs run
χ² / ndf 63.21 / 77
p0 735.4 ± 913.4
pull
Entries 78
Mean −313.5
Std Dev 363.4

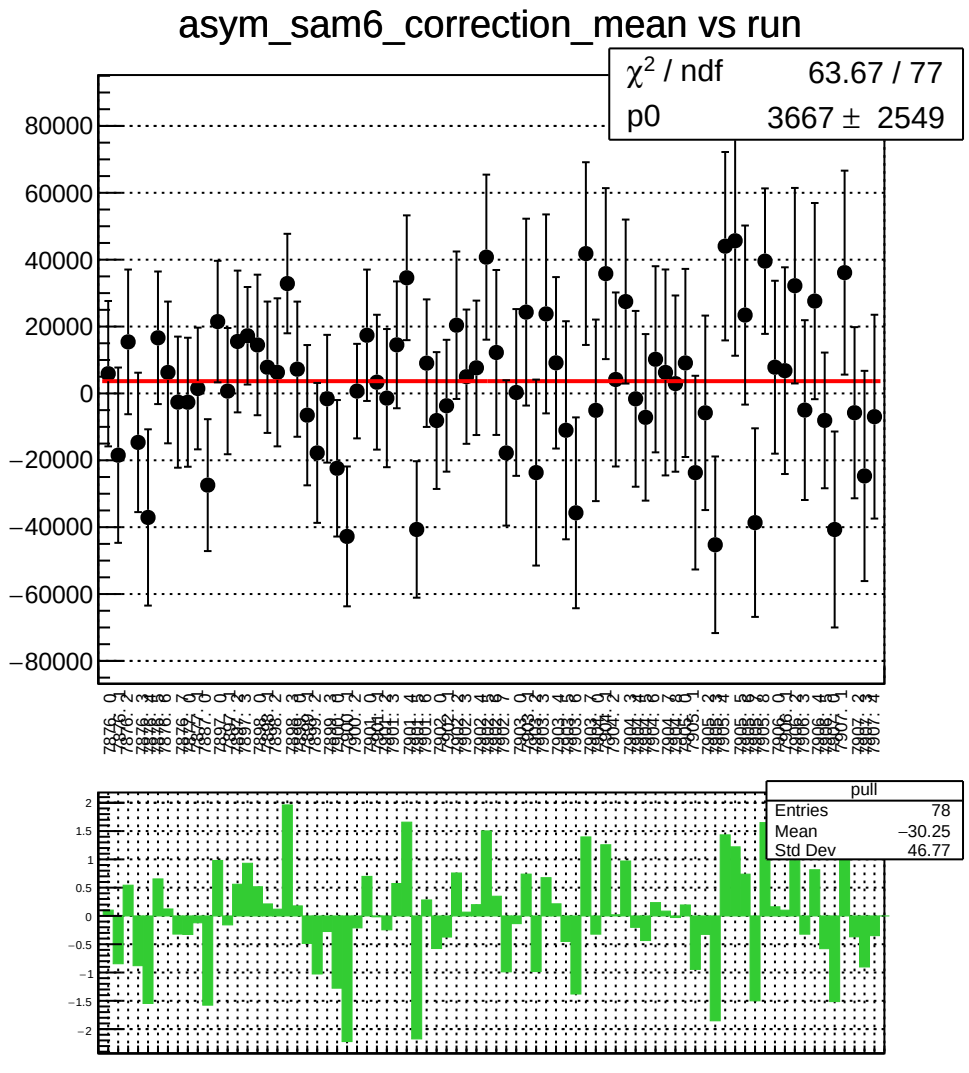

pull1D
Entries 78
Mean −0.006133
Std Dev 0.9002

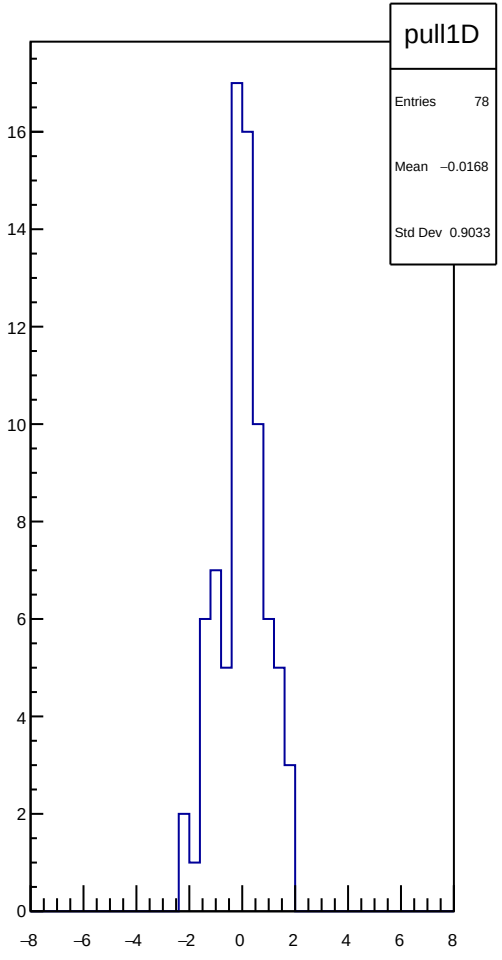

asym_sam5_correction_rms vs run
χ² / ndf 6.706e+04 / 77
p0 777.4 ± 0.6459
1800
1600
1400
1200
1000
800
600

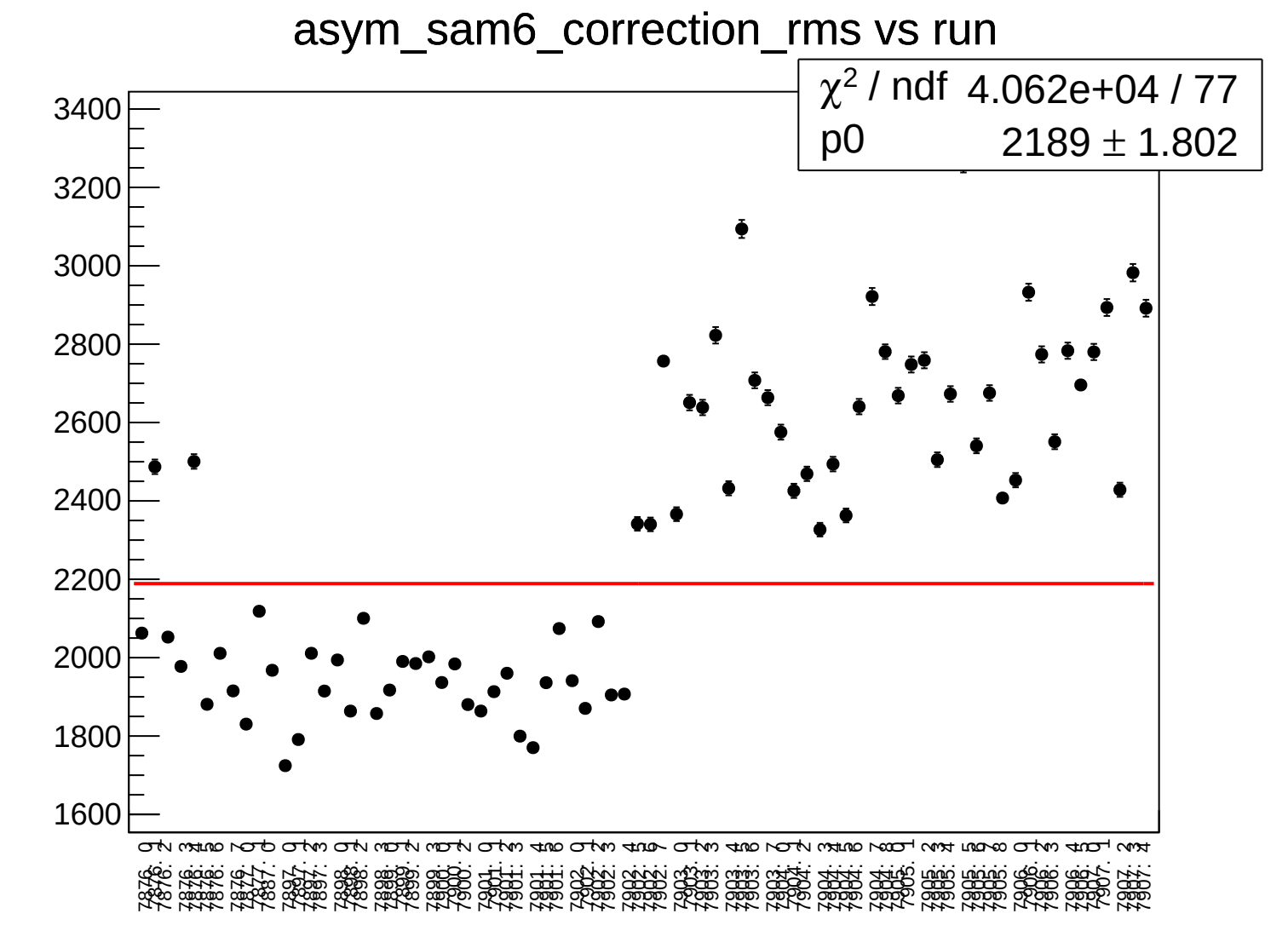

reg_asym_sam6_mean vs run
χ² / ndf 71.57 / 77
p0 88.4 ± 267.9
pull
Entries 78
Mean −128.3
Std Dev 170.5

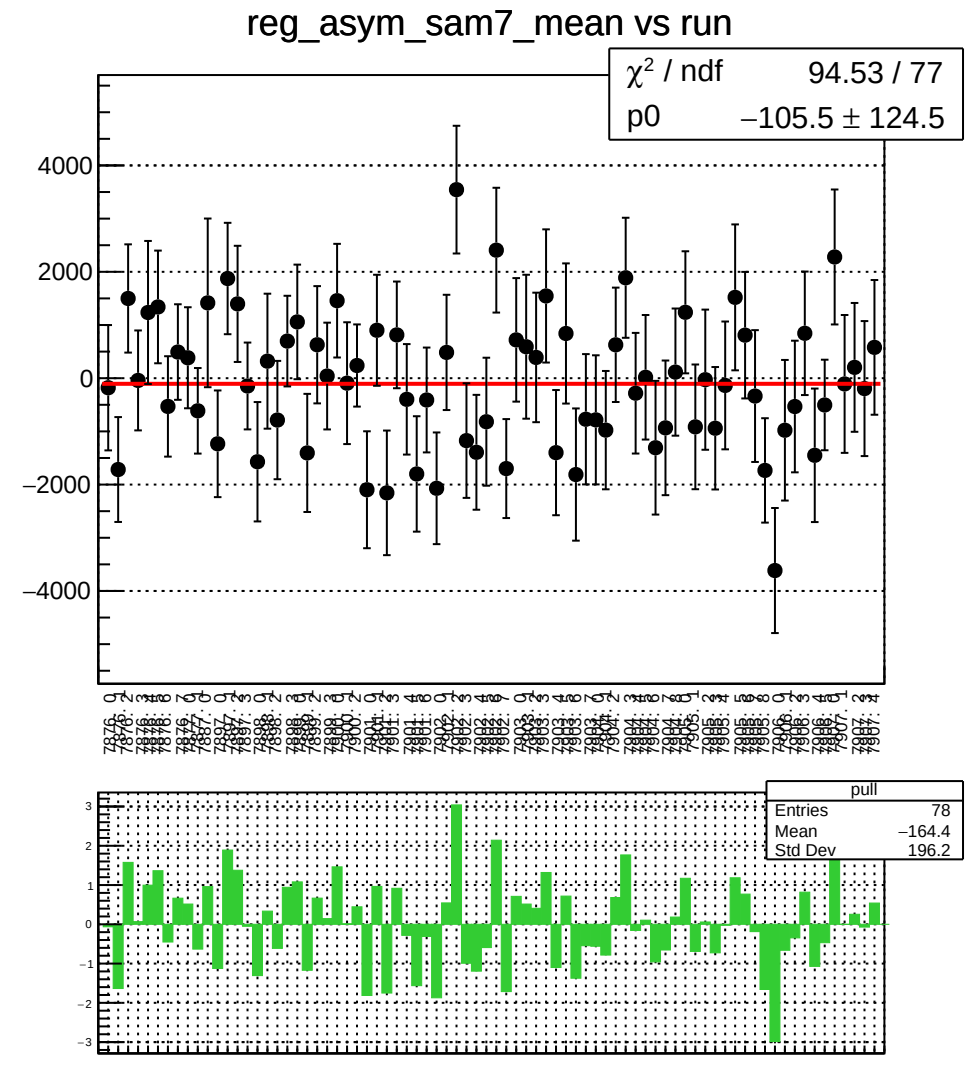

pull1D
Entries 78
Mean 0.0168
Std Dev 0.9578

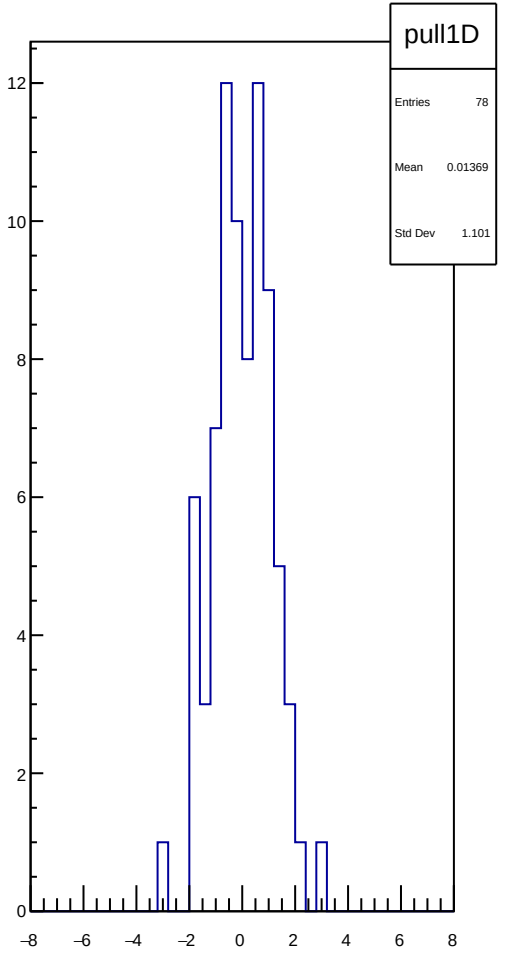

reg_asym_sam6_rms vs run
χ^2 / ndf 1.405e+04 / 77
p0 232.2 ± 0.1894
360
340
320
300
280
260
240
220
200
180

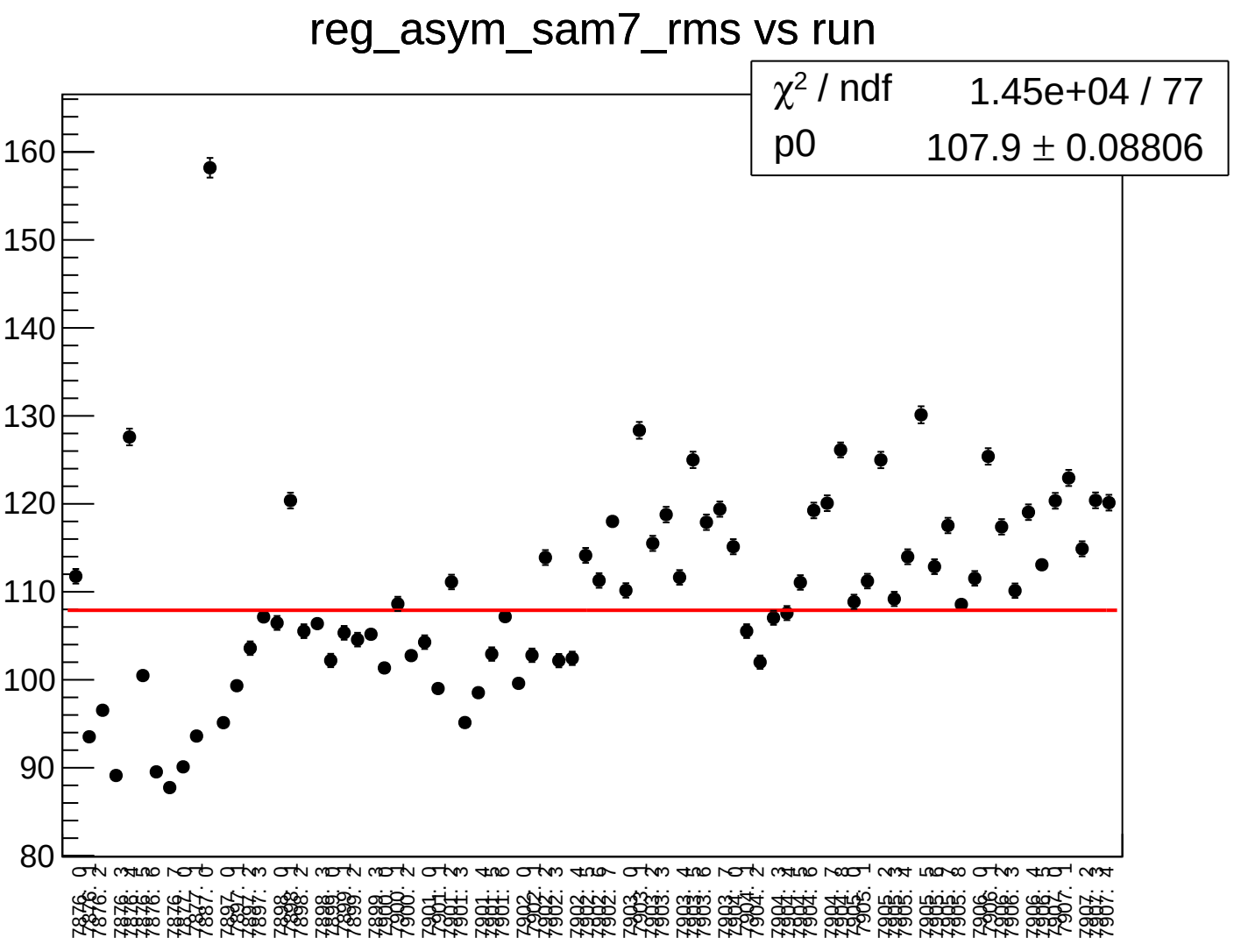

asym_sam6_correction_mean vs run
χ² / ndf 63.67 / 77
p0 3667 ± 2549
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 78
Mean −30.25
Std Dev 46.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

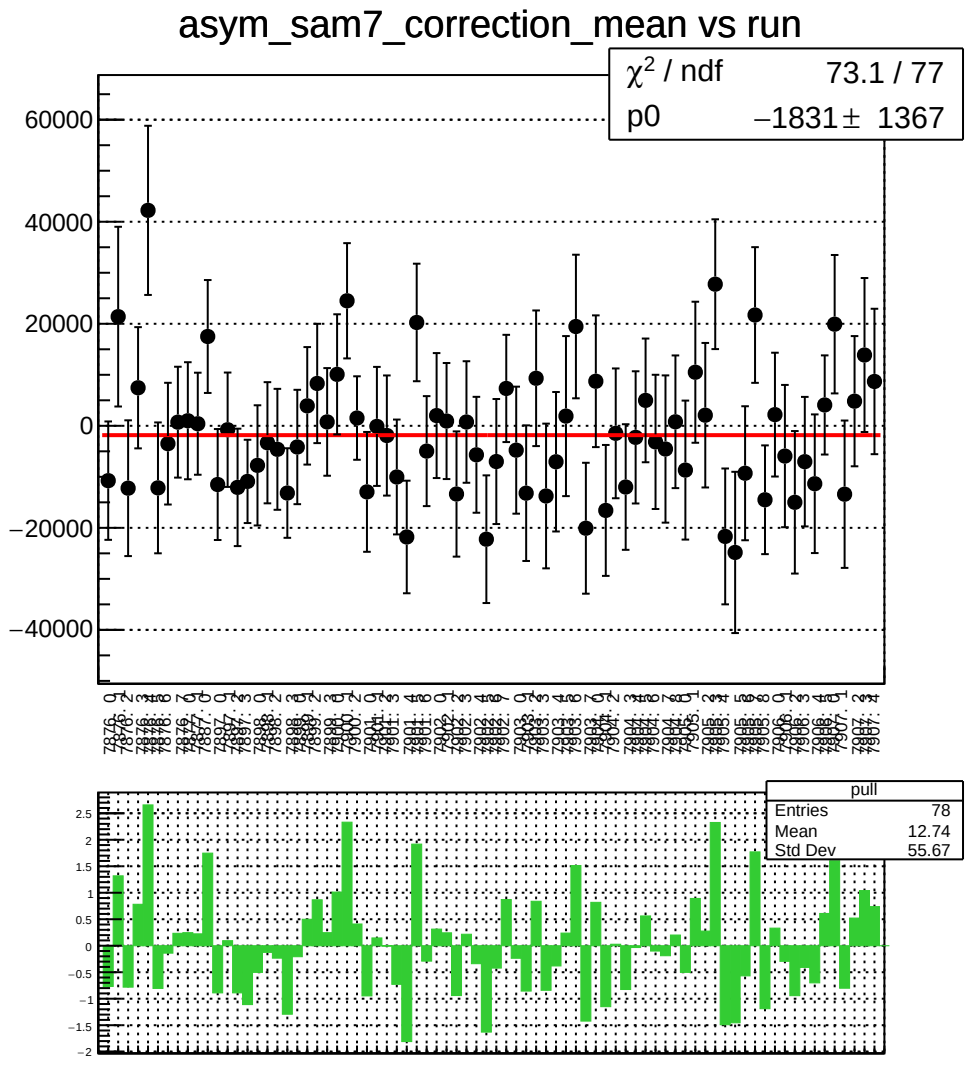

pull1D
Entries 78
Mean −0.0168
Std Dev 0.9033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

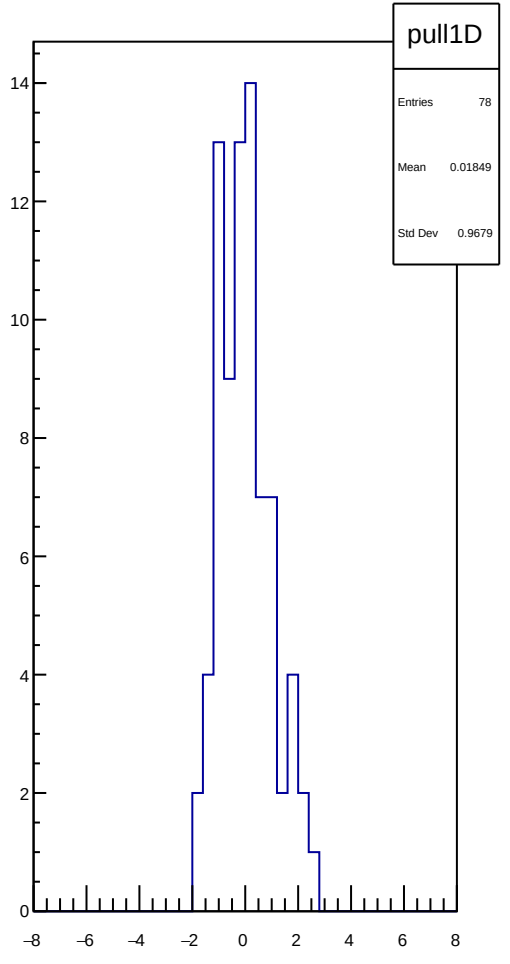

asym_sam6_correction_rms vs run
χ² / ndf 4.062e+04 / 77
p0 2189 ± 1.802
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

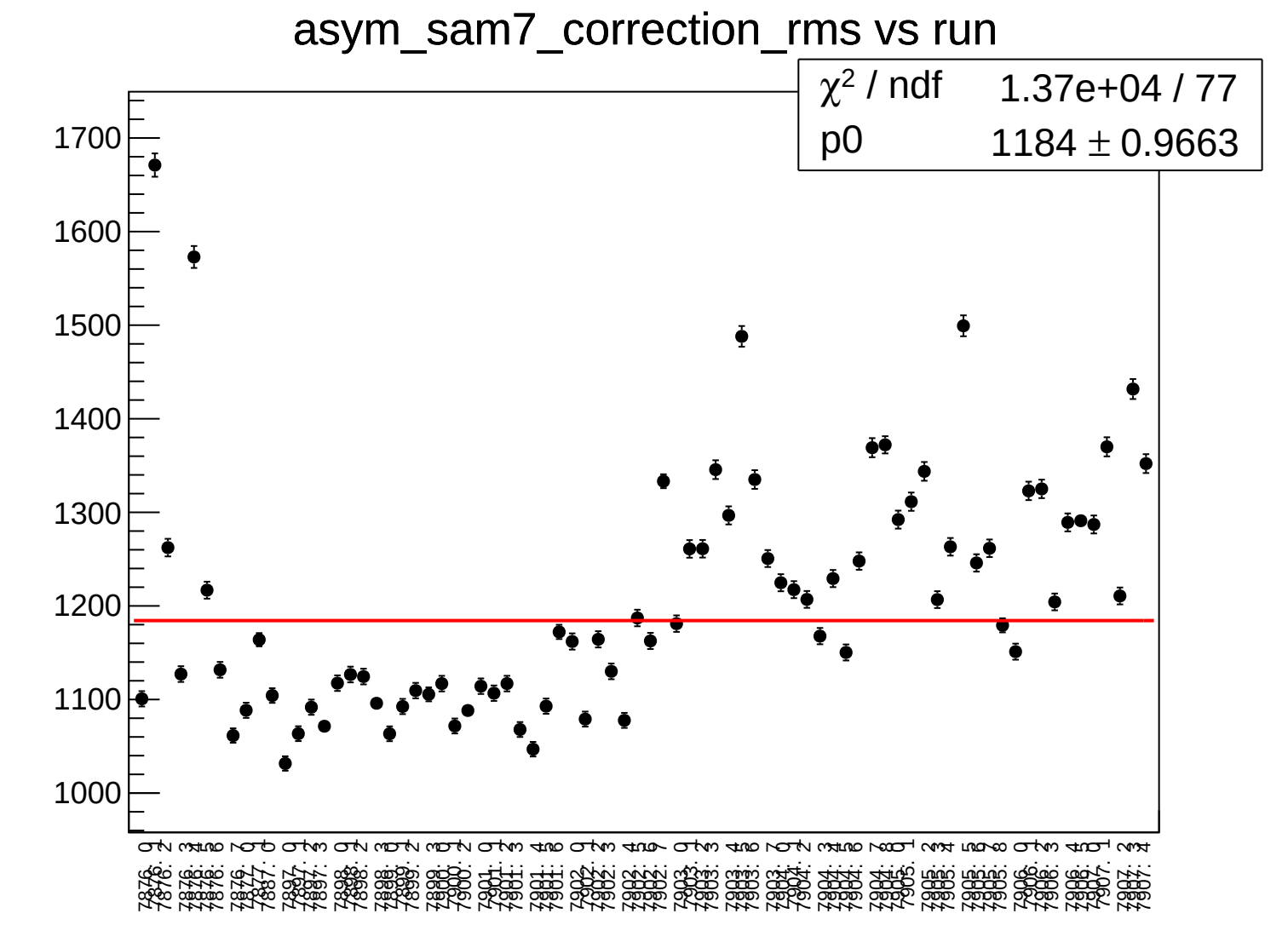

reg_asym_sam7_mean vs run
χ² / ndf 94.53 / 77
p0 −105.5 ± 124.5
4000
2000
0
−2000
−4000
pull
Entries 78
Mean −164.4
Std Dev 196.2
3
2
1
0
−1
−2
−3

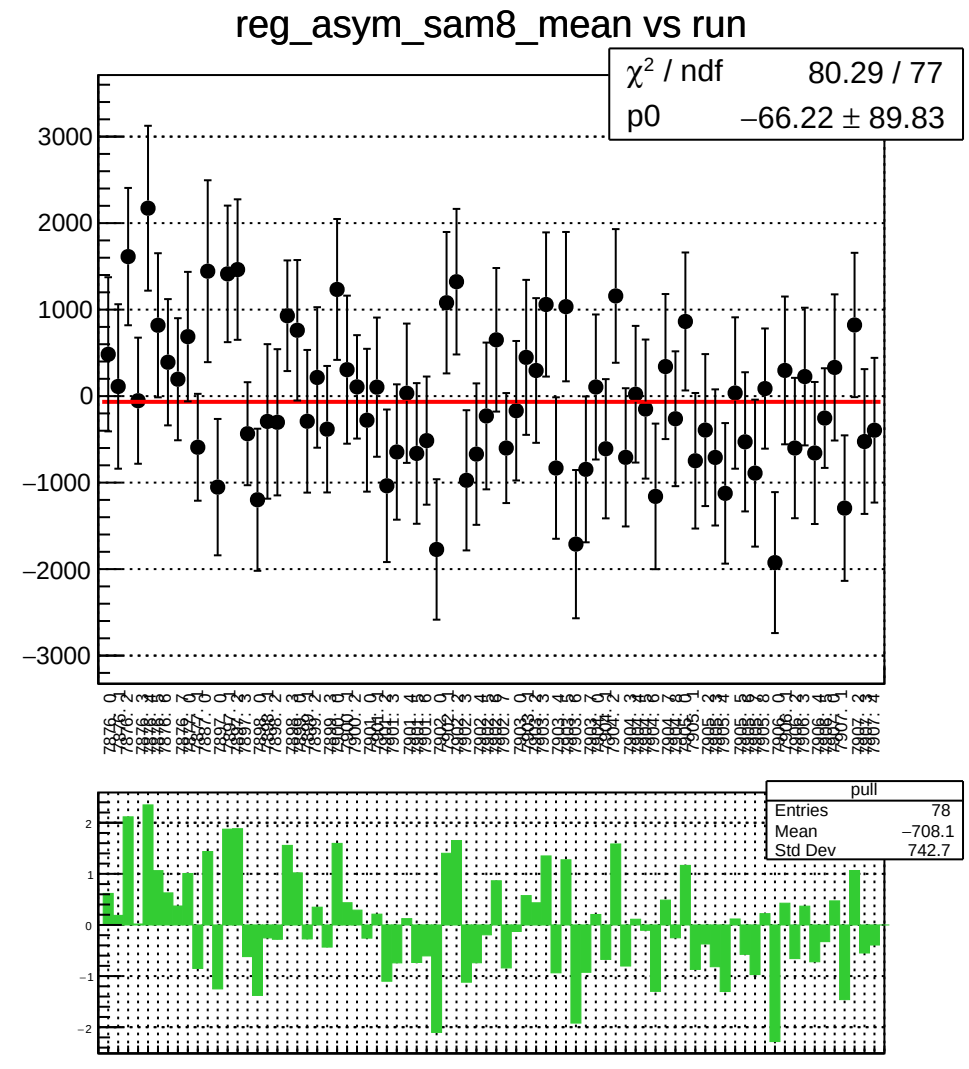

pull1D
Entries 78
Mean 0.01369
Std Dev 1.101
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

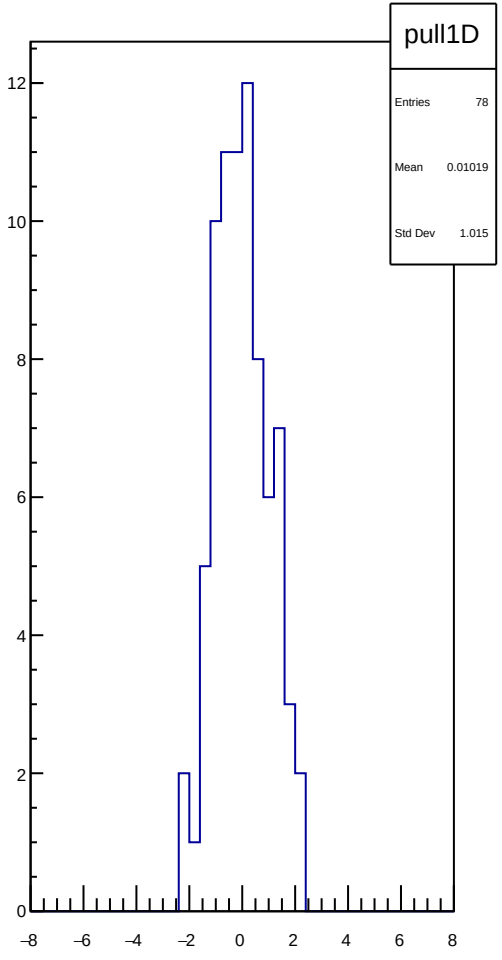

reg_asym_sam7_rms vs run
χ² / ndf 1.45e+04 / 77
p0 107.9 ± 0.08806
160
150
140
130
120
110
100
90
80

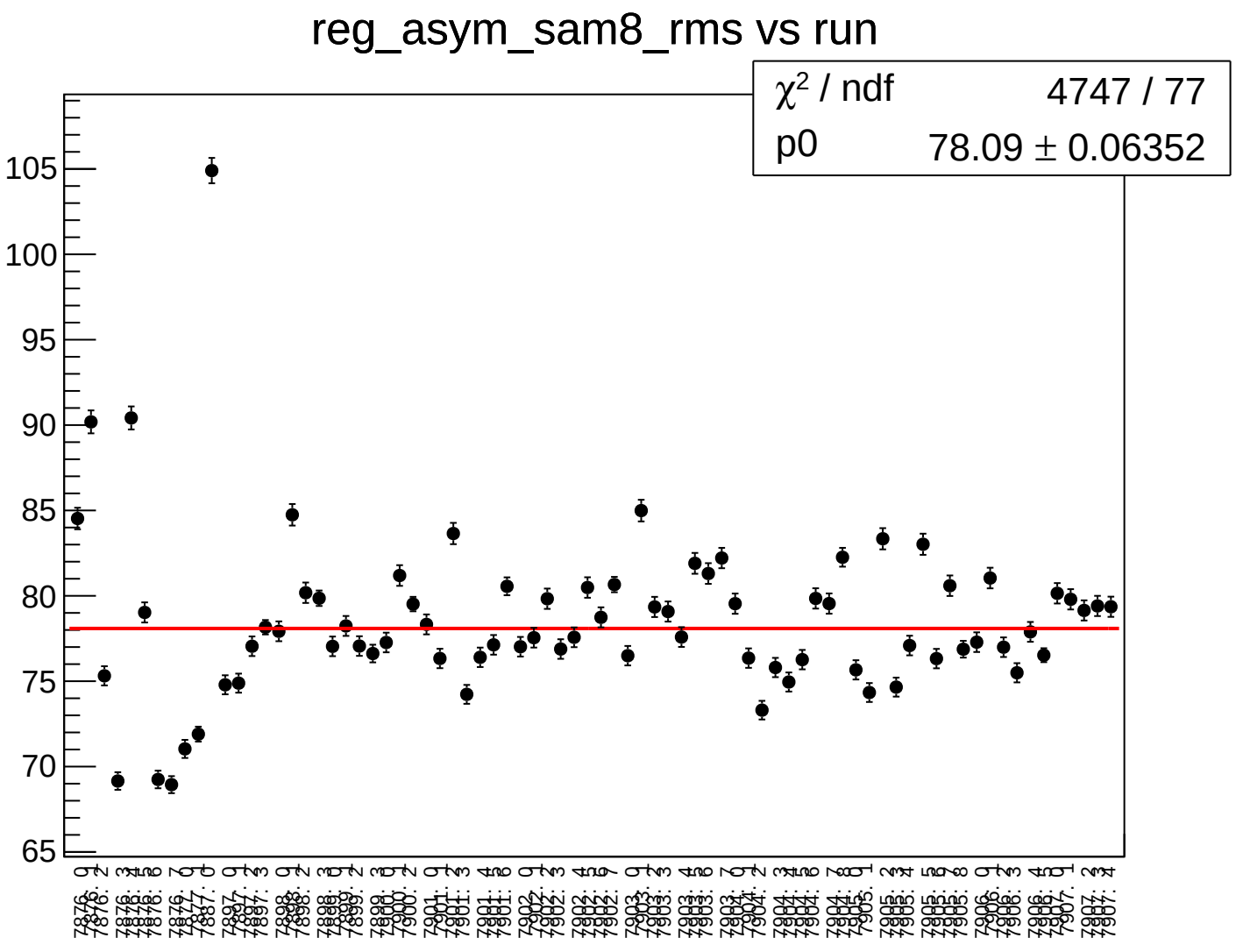

asym_sam7_correction_mean vs run
χ² / ndf 73.1 / 77
p0 −1831 ± 1367
60000
40000
20000
0
−20000
−40000
pull
Entries 78
Mean 12.74
Std Dev 55.67
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

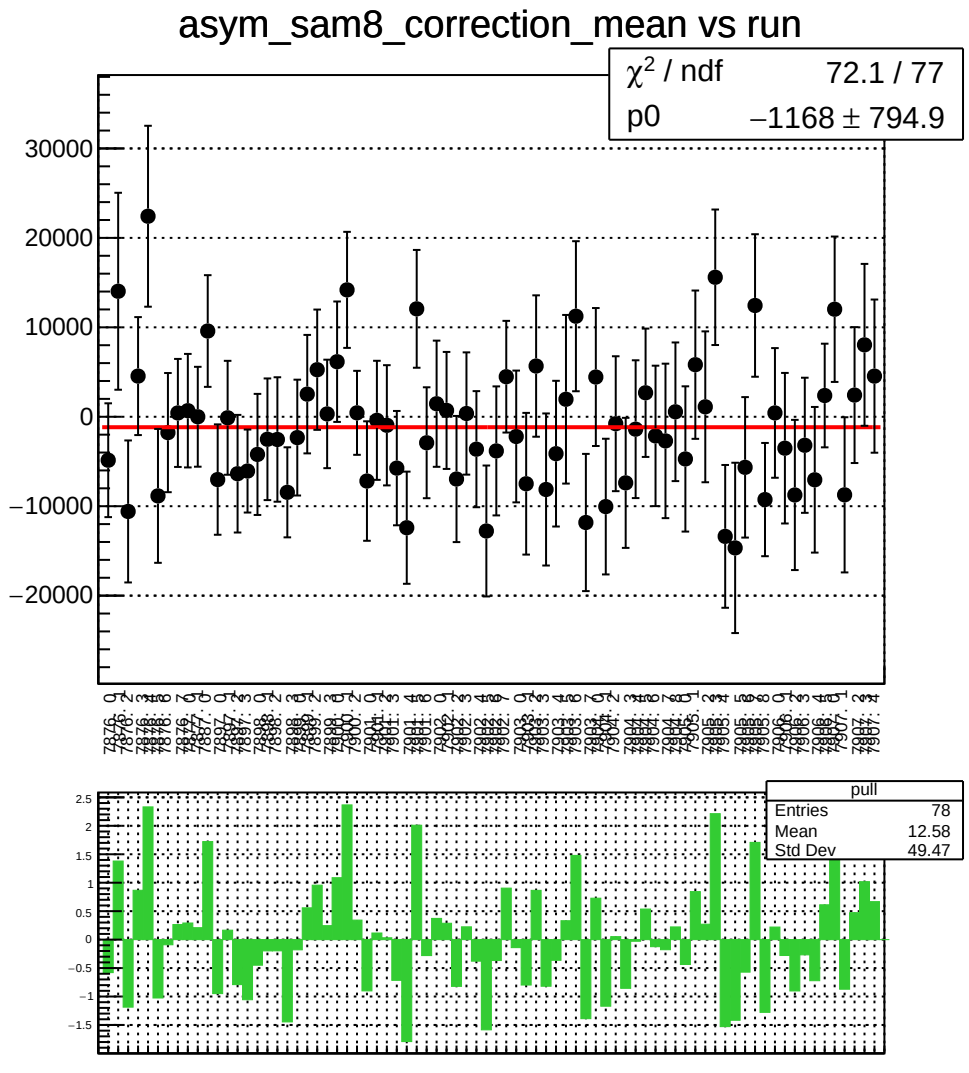

pull1D
Entries 78
Mean 0.01849
Std Dev 0.9679
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

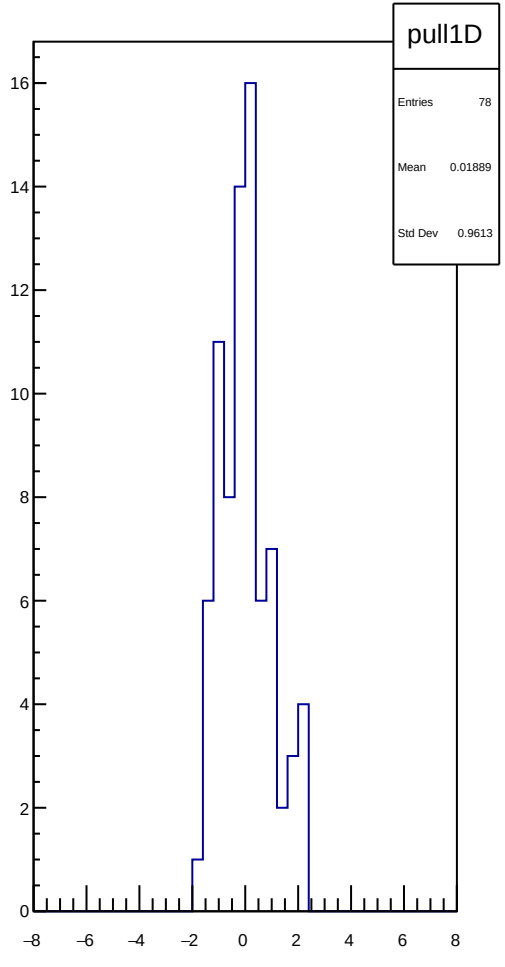

asym_sam7_correction_rms vs run
χ² / ndf 1.37e+04 / 77
p0 1184 ± 0.9663
1700
1600
1500
1400
1300
1200
1100
1000

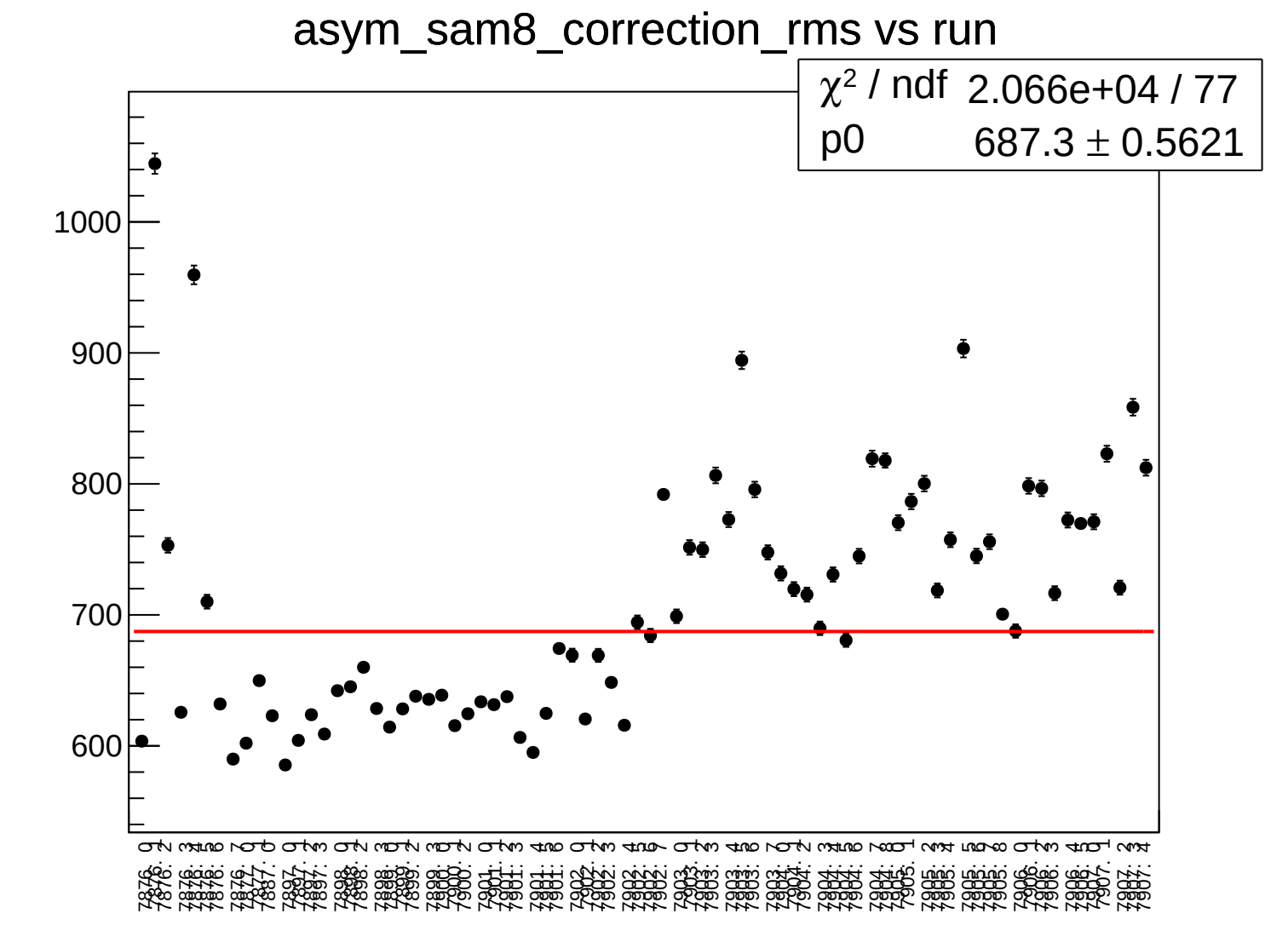

reg_asym_sam8_mean vs run
χ² / ndf 80.29 / 77
p0 −66.22 ± 89.83
pull
Entries 78
Mean −708.1
Std Dev 742.7

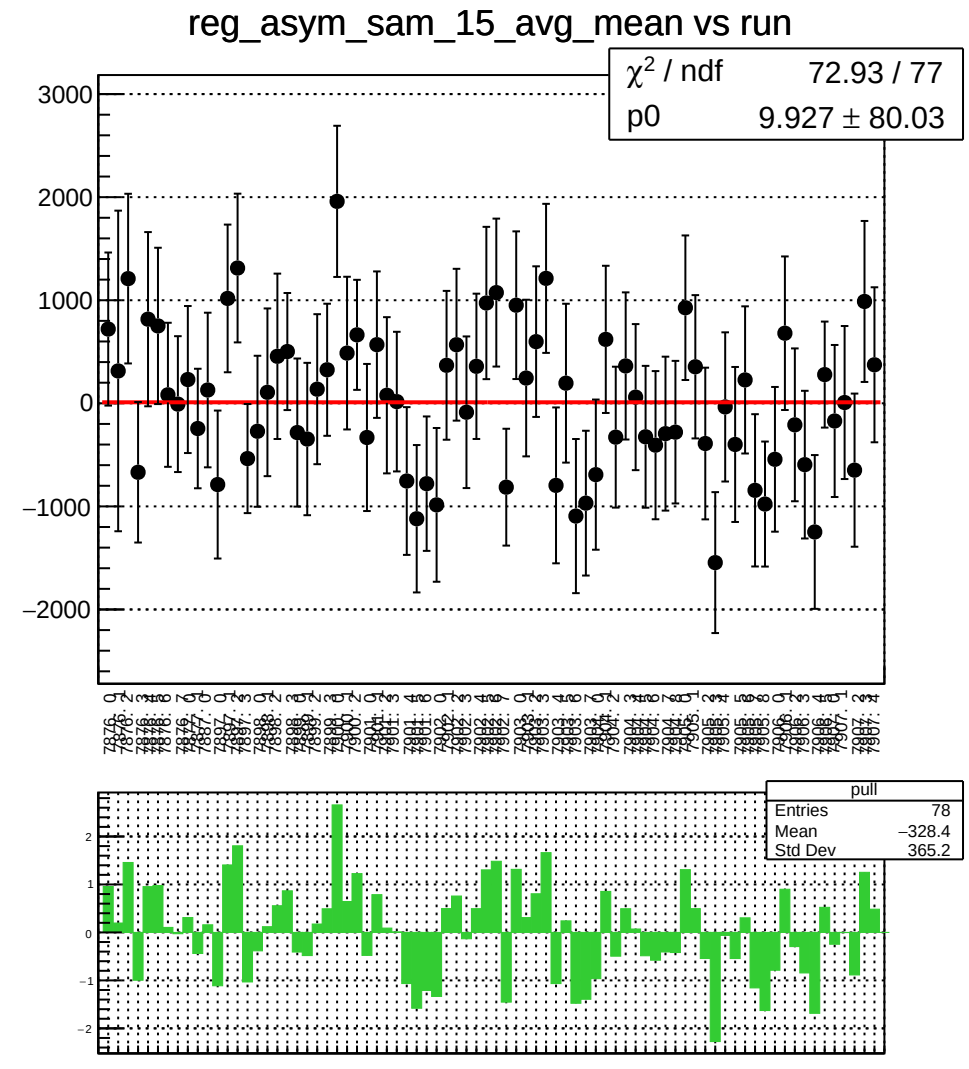

pull1D
Entries 78
Mean 0.01019
Std Dev 1.015

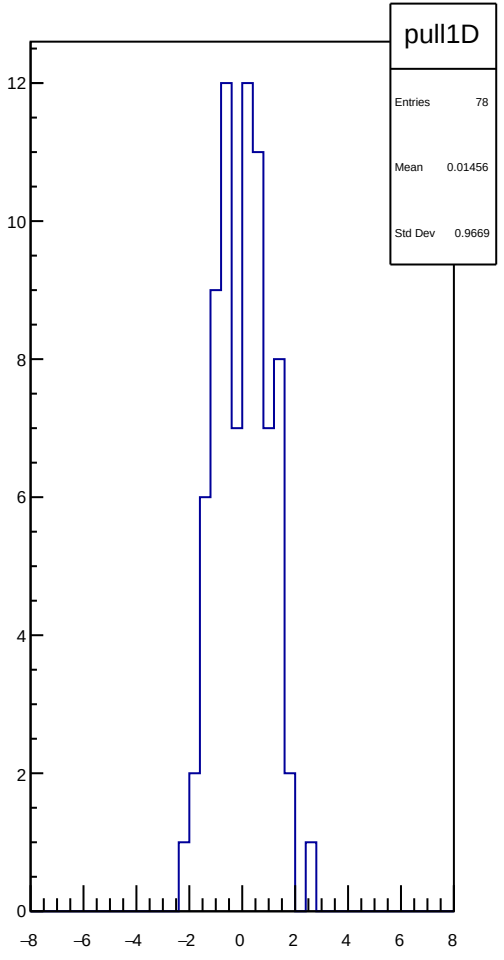

reg_asym_sam8_rms vs run
χ^2 / ndf 4747 / 77
p0 78.09 ± 0.06352
105
100
95
90
85
80
75
70
65

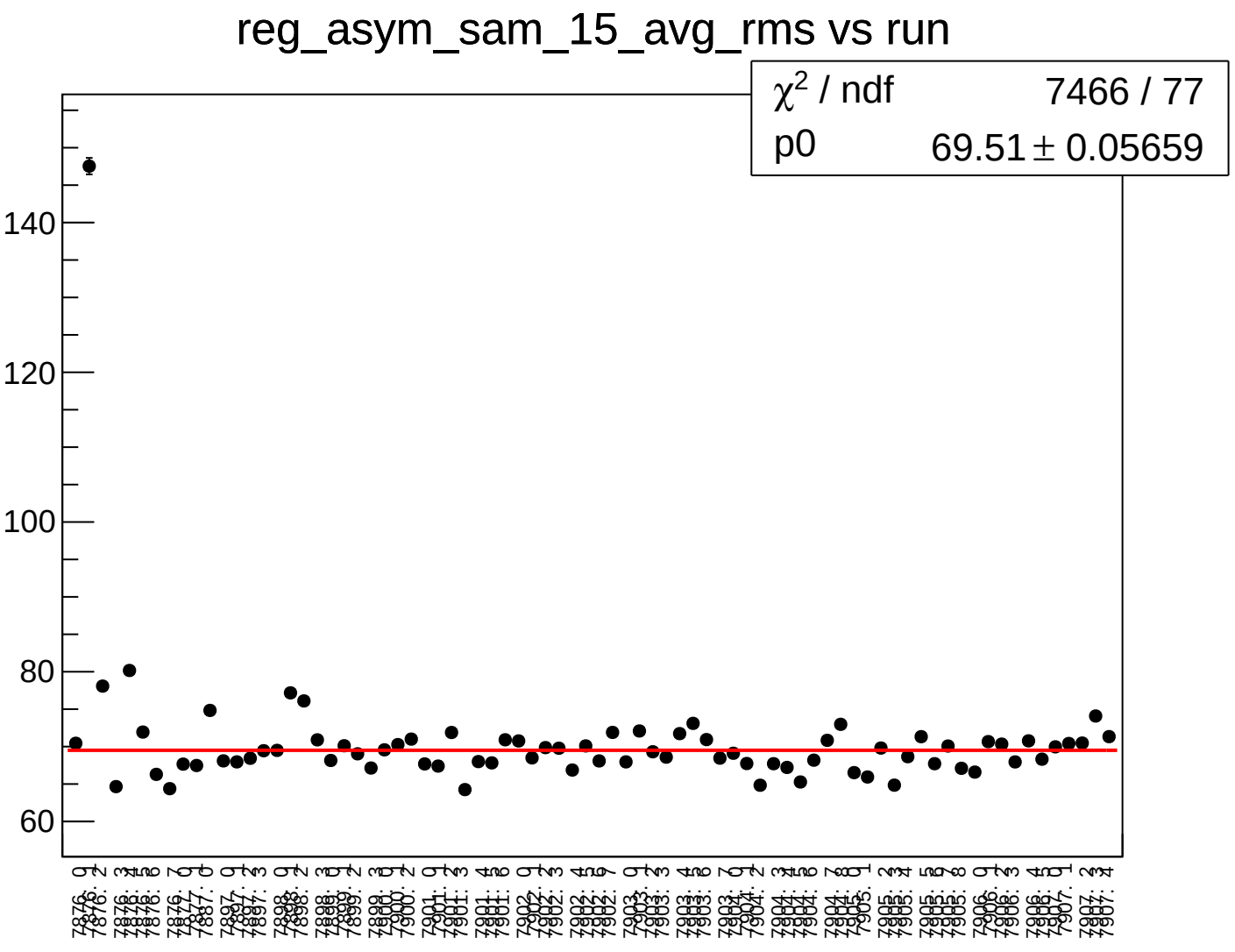

asym_sam8_correction_mean vs run
χ² / ndf 72.1 / 77
p0 −1168 ± 794.9
30000
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 12.58
Std Dev 49.47
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

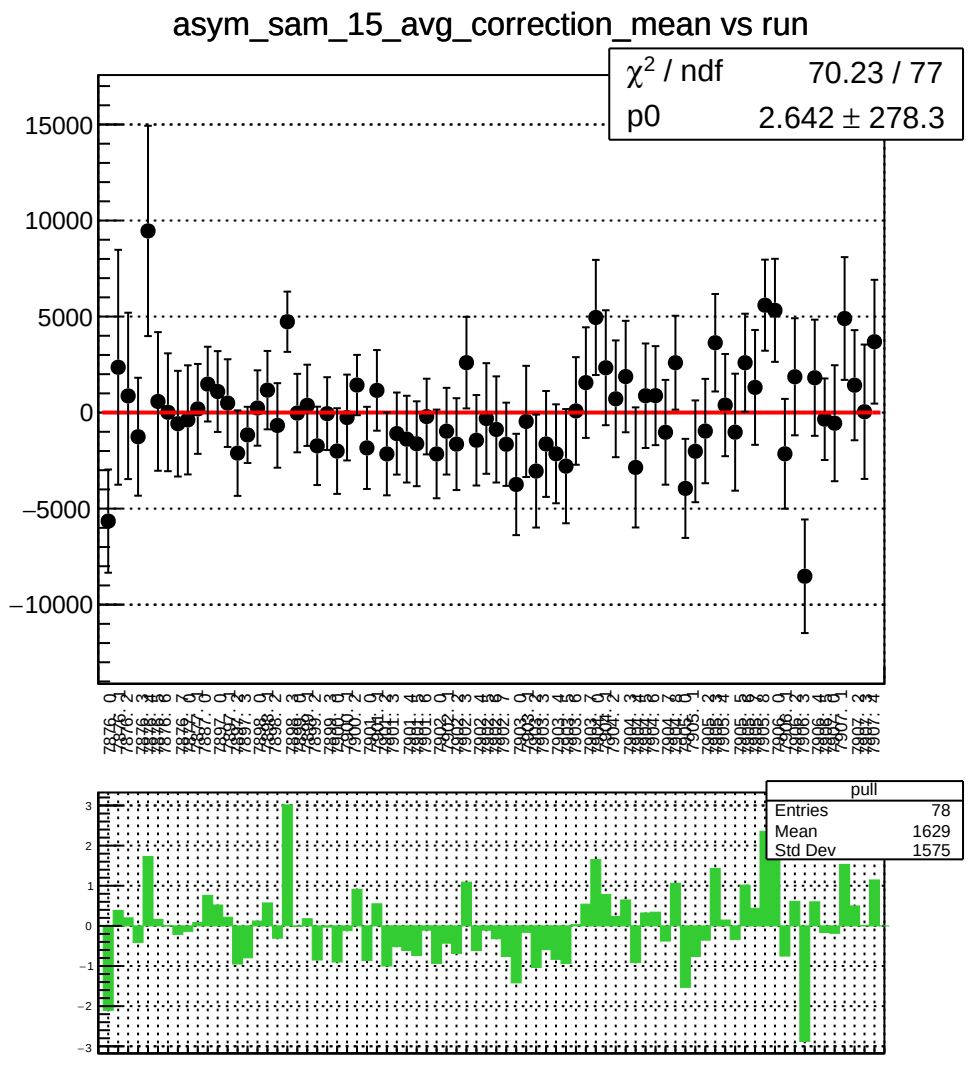

pull1D
Entries 78
Mean 0.01889
Std Dev 0.9613
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

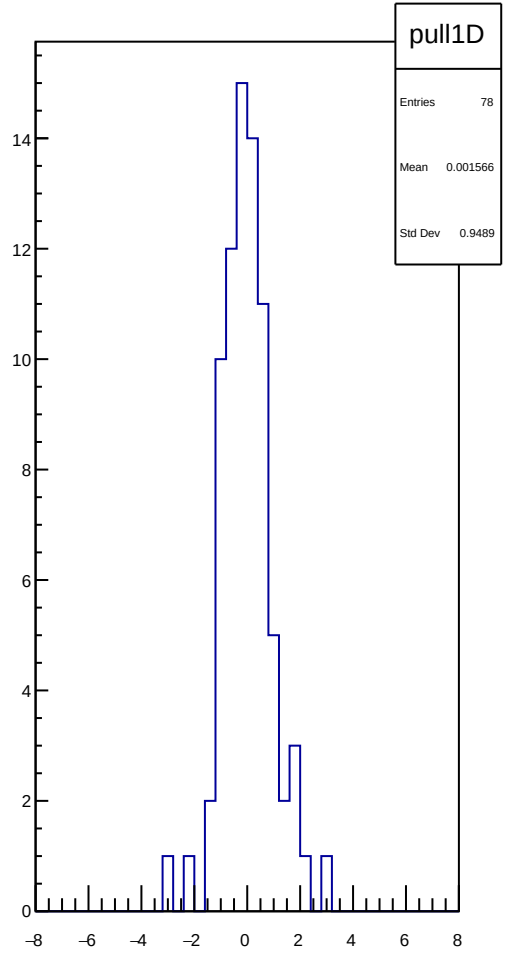

asym_sam8_correction_rms vs run
χ² / ndf 2.066e+04 / 77
p0 687.3 ± 0.5621
1000
900
800
700
600

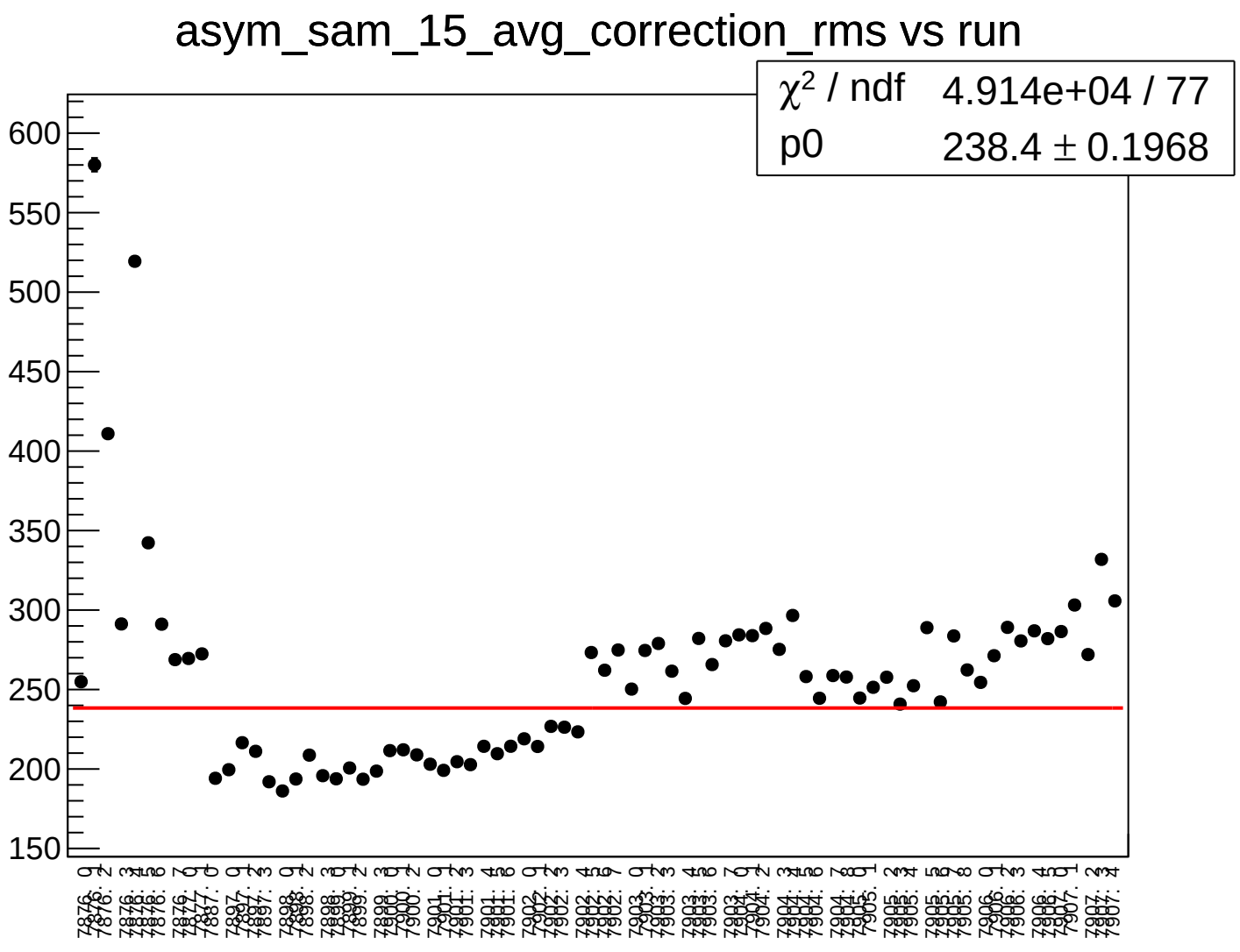

reg_asym_sam_15_avg_mean vs run
χ² / ndf 72.93 / 77
p0 9.927 ± 80.03
3000
2000
1000
0
−1000
−2000
pull
Entries 78
Mean −328.4
Std Dev 365.2
2
1
0
−1
−2

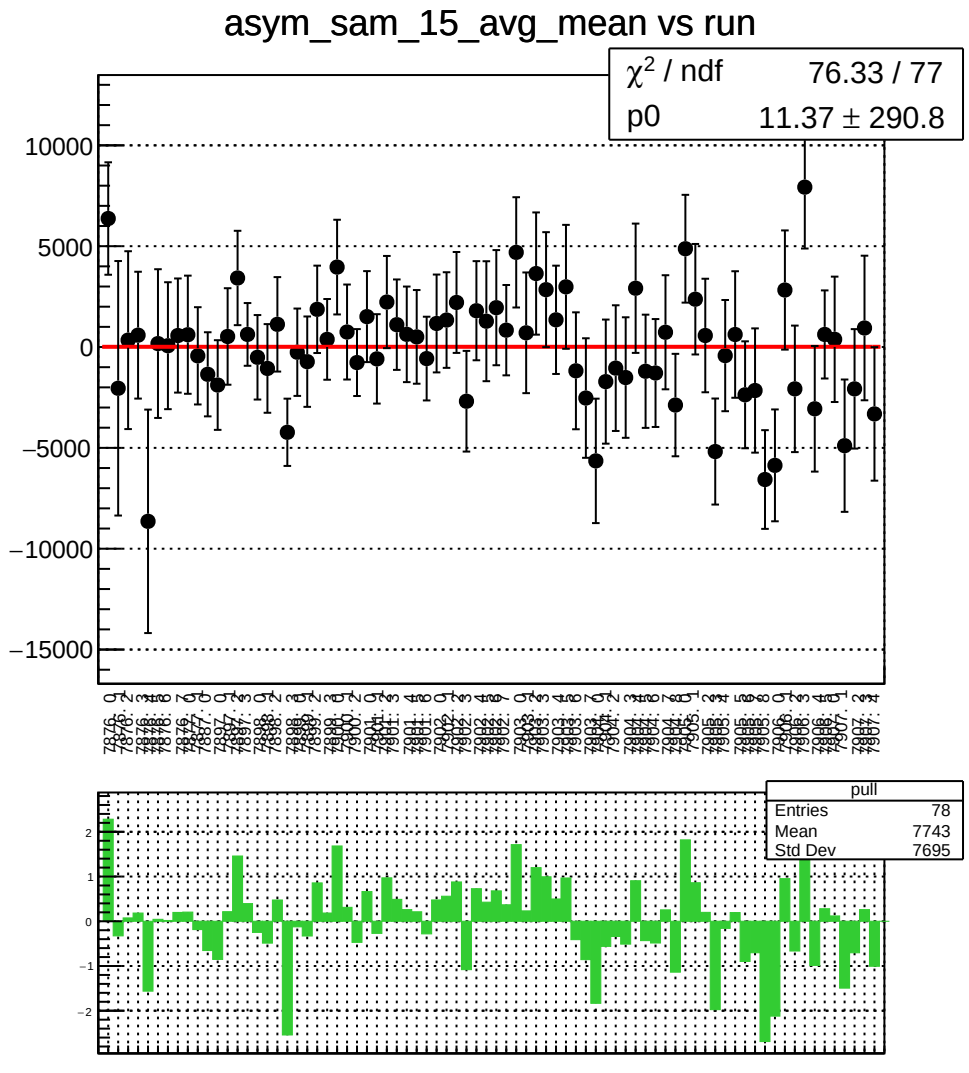

pull1D
Entries 78
Mean 0.01456
Std Dev 0.9669
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

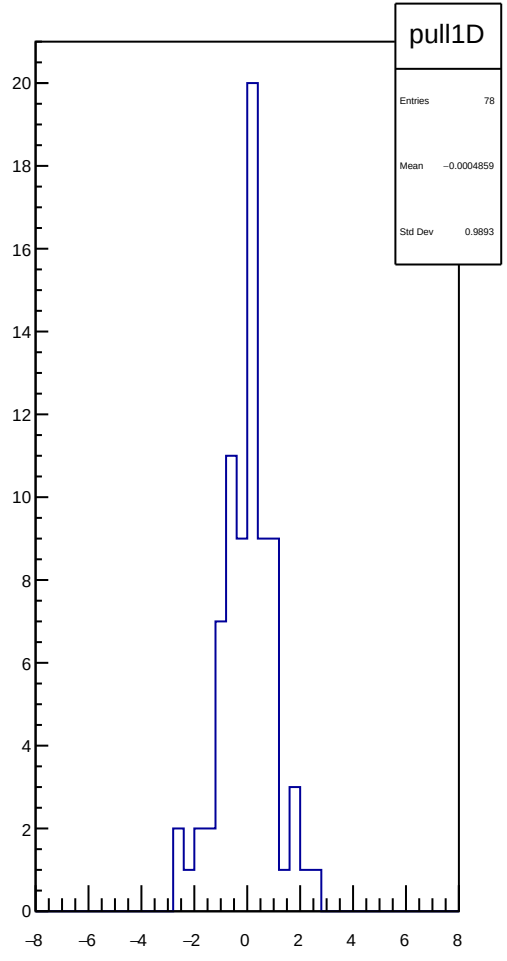

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 7466 / 77
p0 69.51 ± 0.05659
140
120
100
80
60

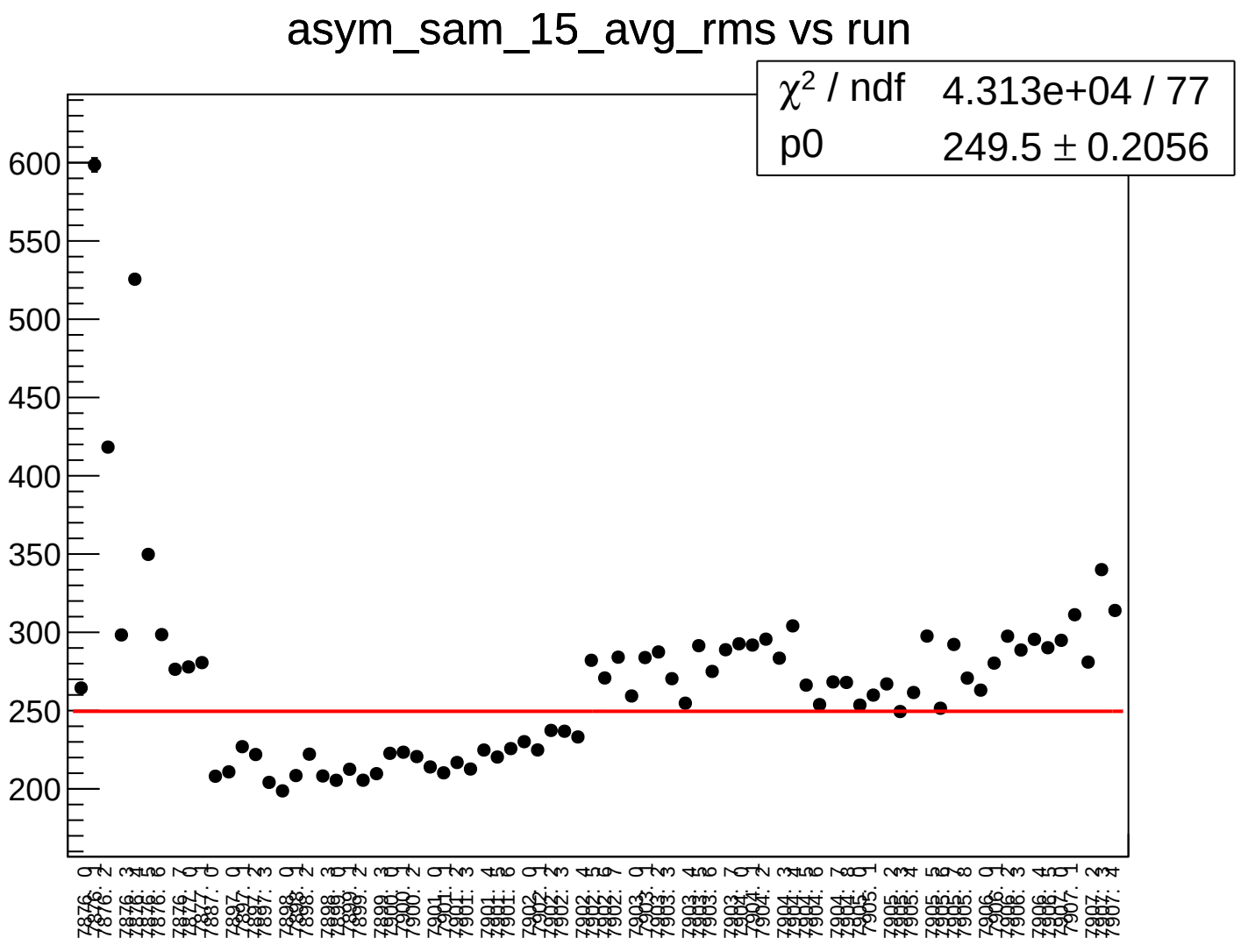

asym_sam_15_avg_correction_mean vs run
χ² / ndf 70.23 / 77
p0 2.642 ± 278.3
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean 1629
Std Dev 1575
3
2
1
0
−1
−2
−3

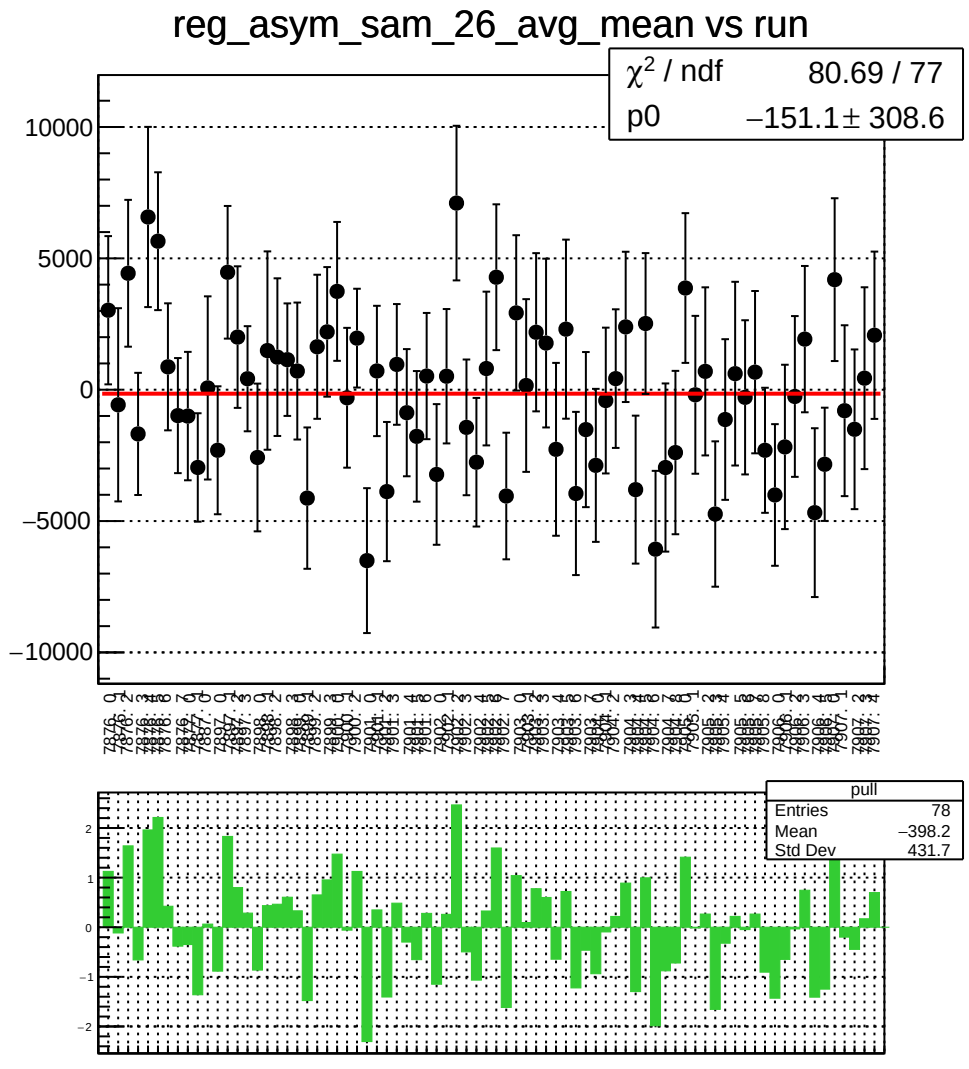

pull1D
Entries 78
Mean 0.001566
Std Dev 0.9489
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

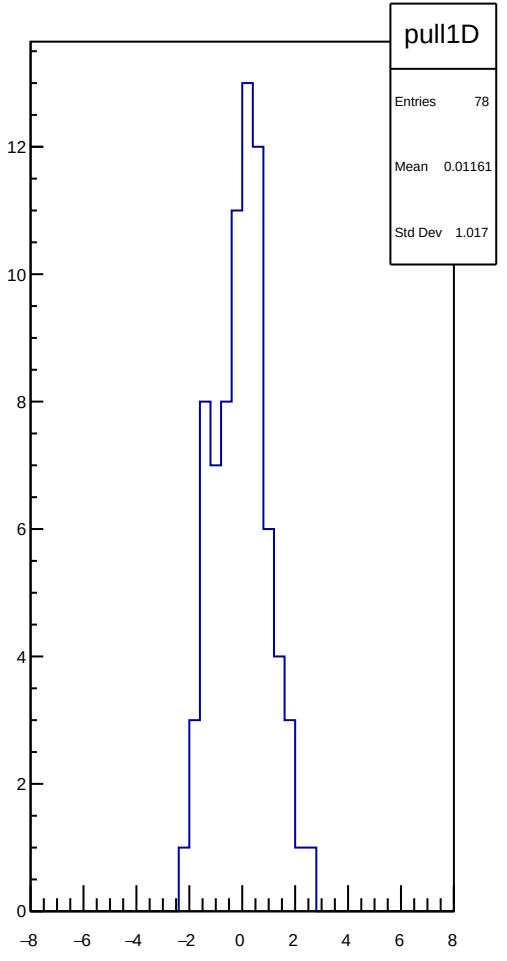

asym_sam_15_avg_correction_rms vs run
χ^2 / ndf 4.914e+04 / 77
p0 238.4 ± 0.1968
600
550
500
450
400
350
300
250
200
150

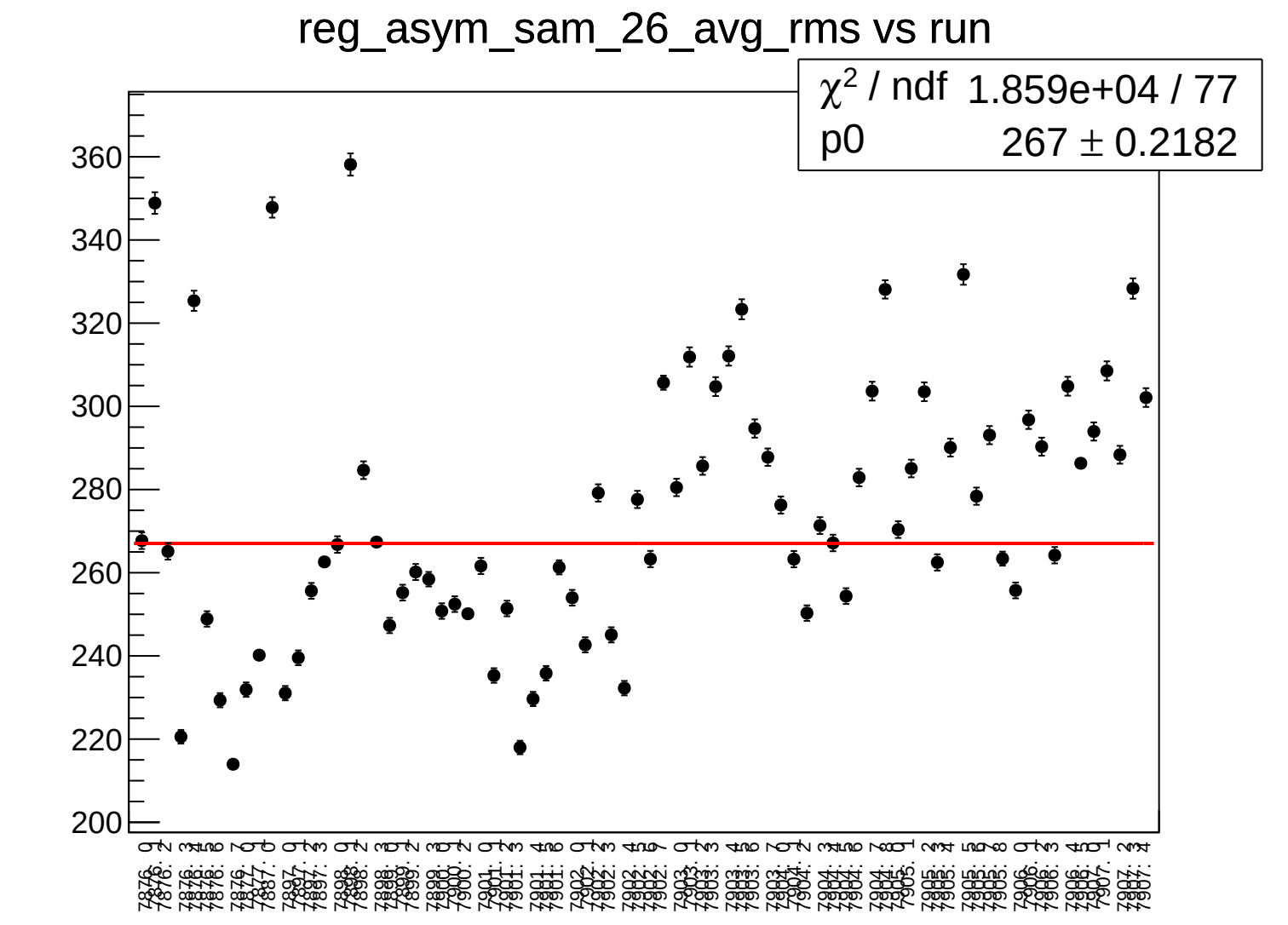

asym_sam_15_avg_mean vs run
χ^2 / ndf 76.33 / 77
p0 11.37 ± 290.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean 7743
Std Dev 7695
2
1
0
−1
−2

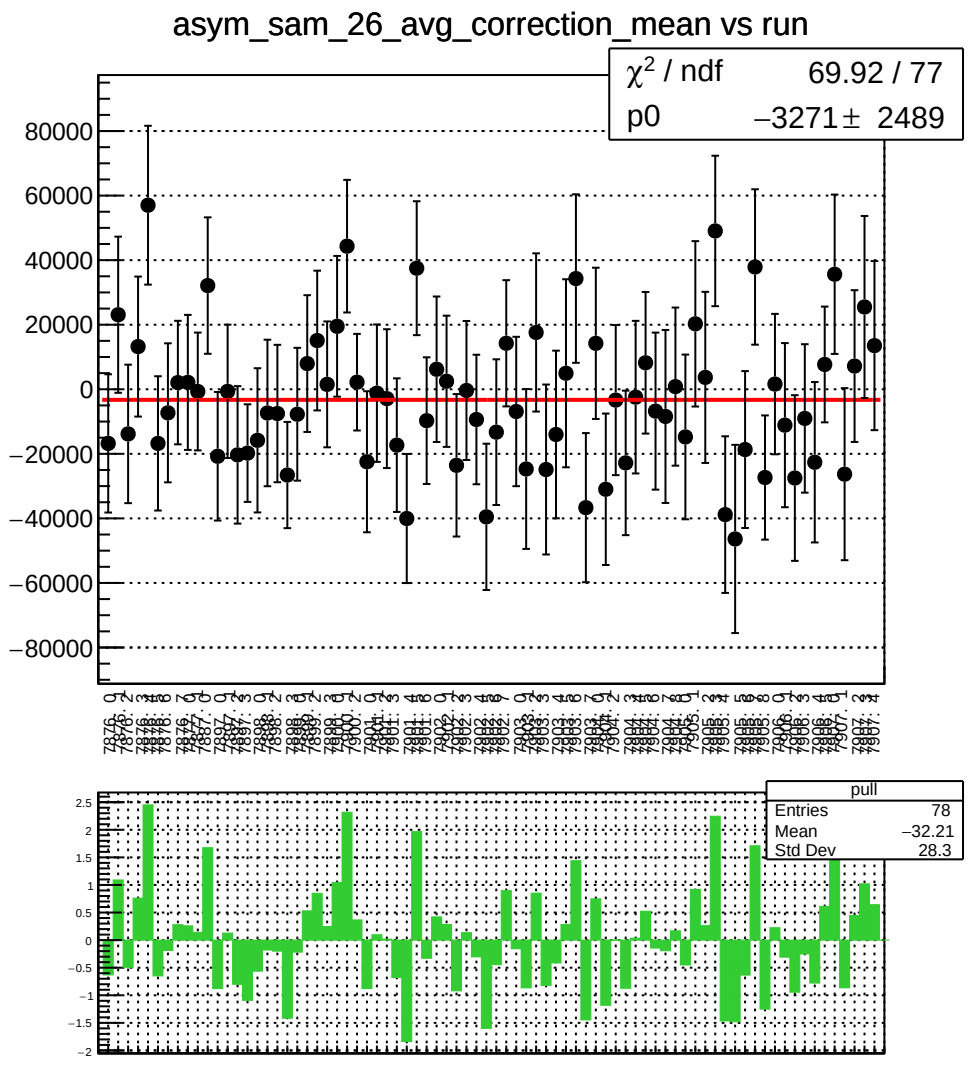

pull1D
Entries 78
Mean −0.0004859
Std Dev 0.9893
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

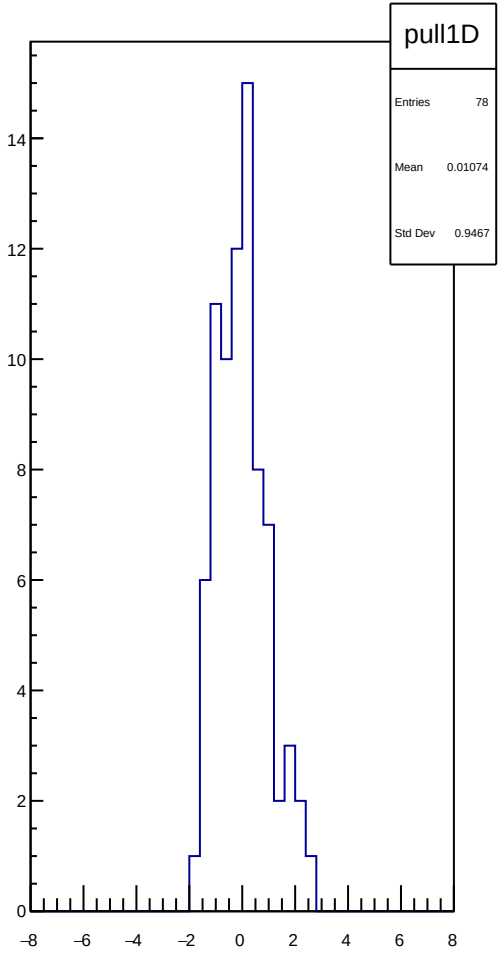

asym_sam_15_avg_rms vs run
χ^2 / ndf 4.313e+04 / 77
p0 249.5 ± 0.2056
600
550
500
450
400
350
300
250
200

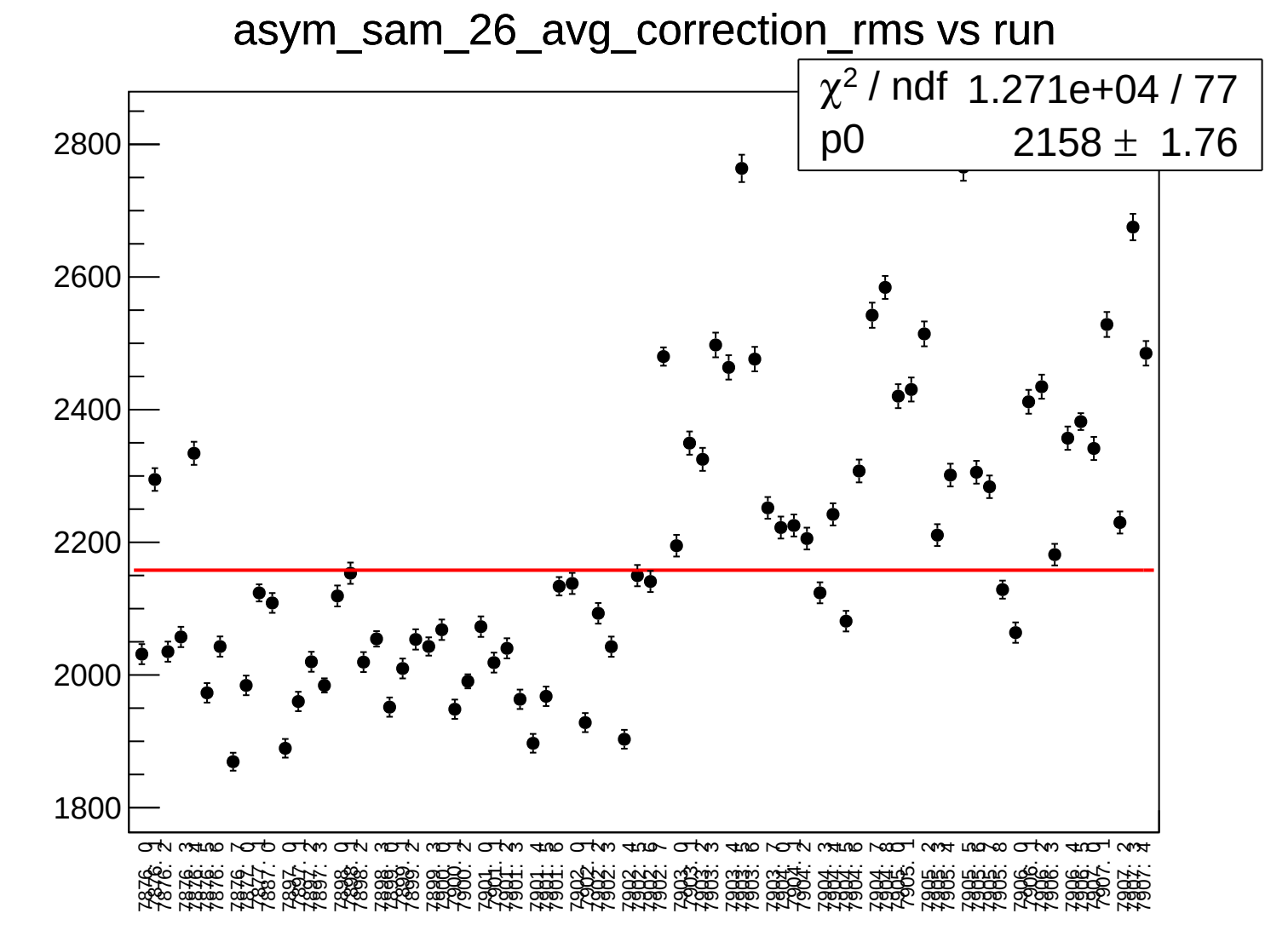

reg_asym_sam_26_avg_mean vs run
χ² / ndf 80.69 / 77
p0 −151.1± 308.6
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −398.2
Std Dev 431.7
2
1
0
−1
−2

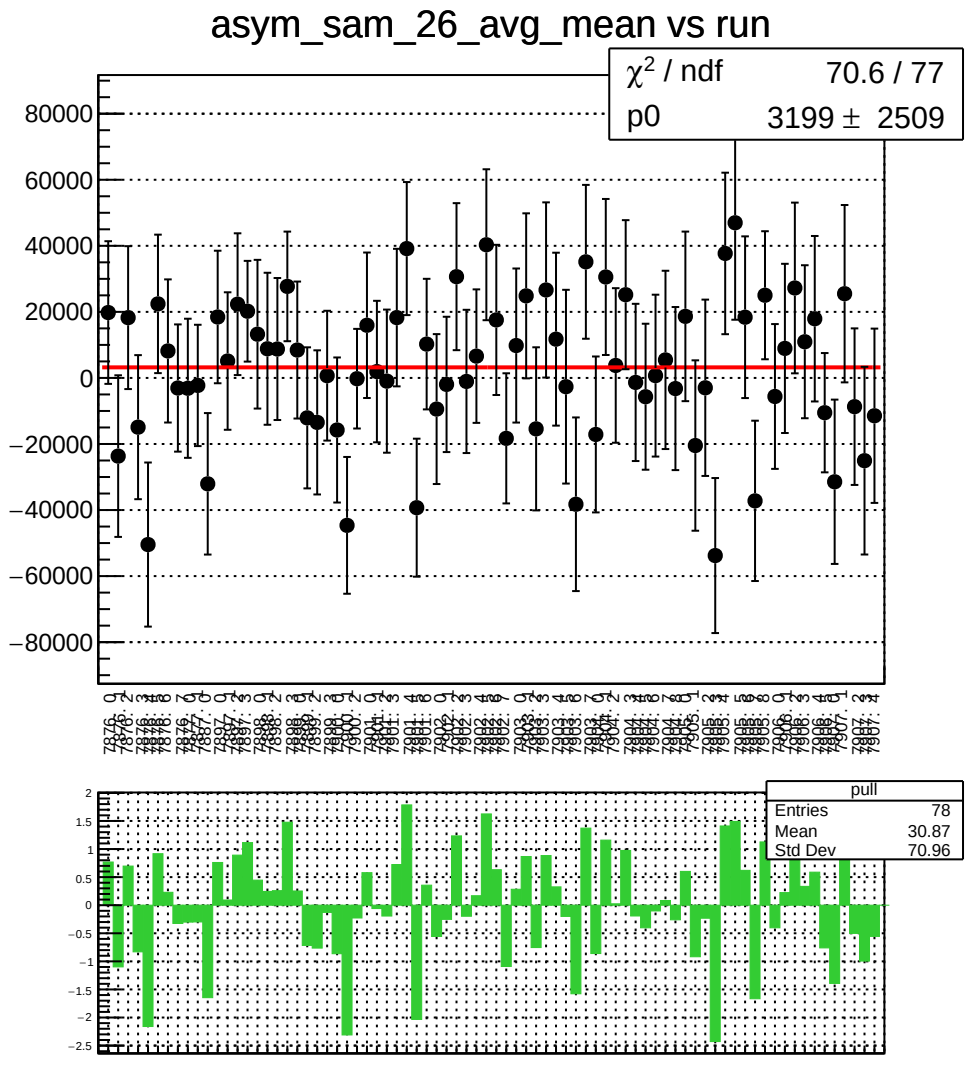

pull1D
Entries 78
Mean 0.01161
Std Dev 1.017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

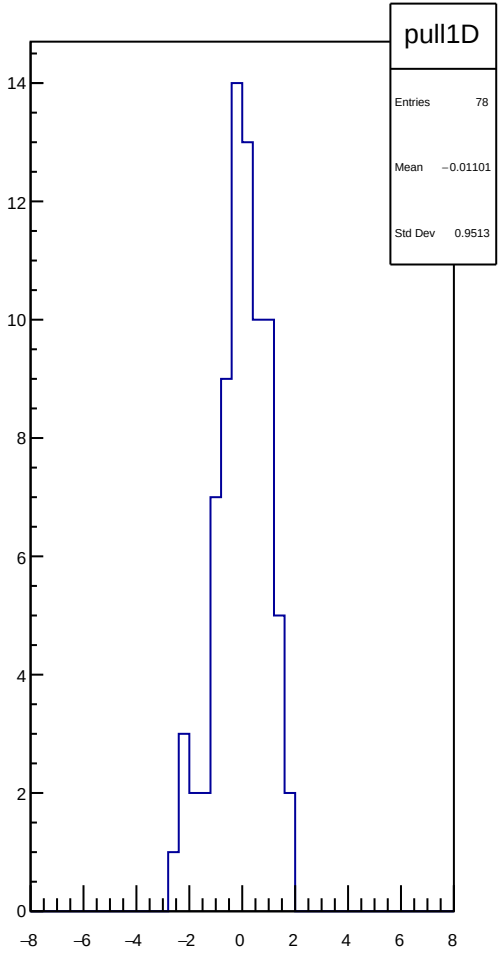

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.859e+04 / 77
p0 267 ± 0.2182
360
340
320
300
280
260
240
220
200

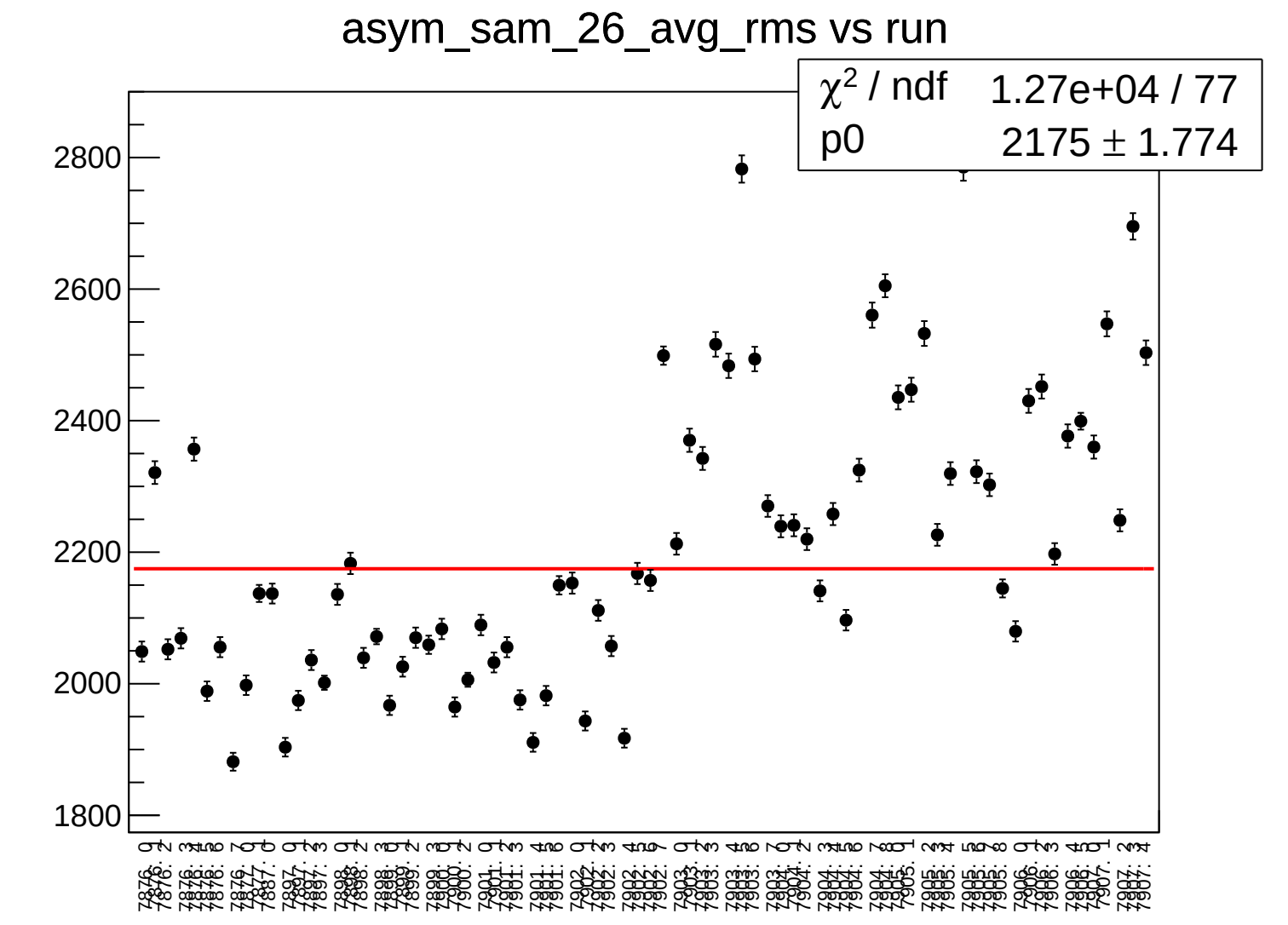

asym_sam_26_avg_correction_mean vs run
χ² / ndf 69.92 / 77
p0 −3271 ± 2489
pull
Entries 78
Mean −32.21
Std Dev 28.3

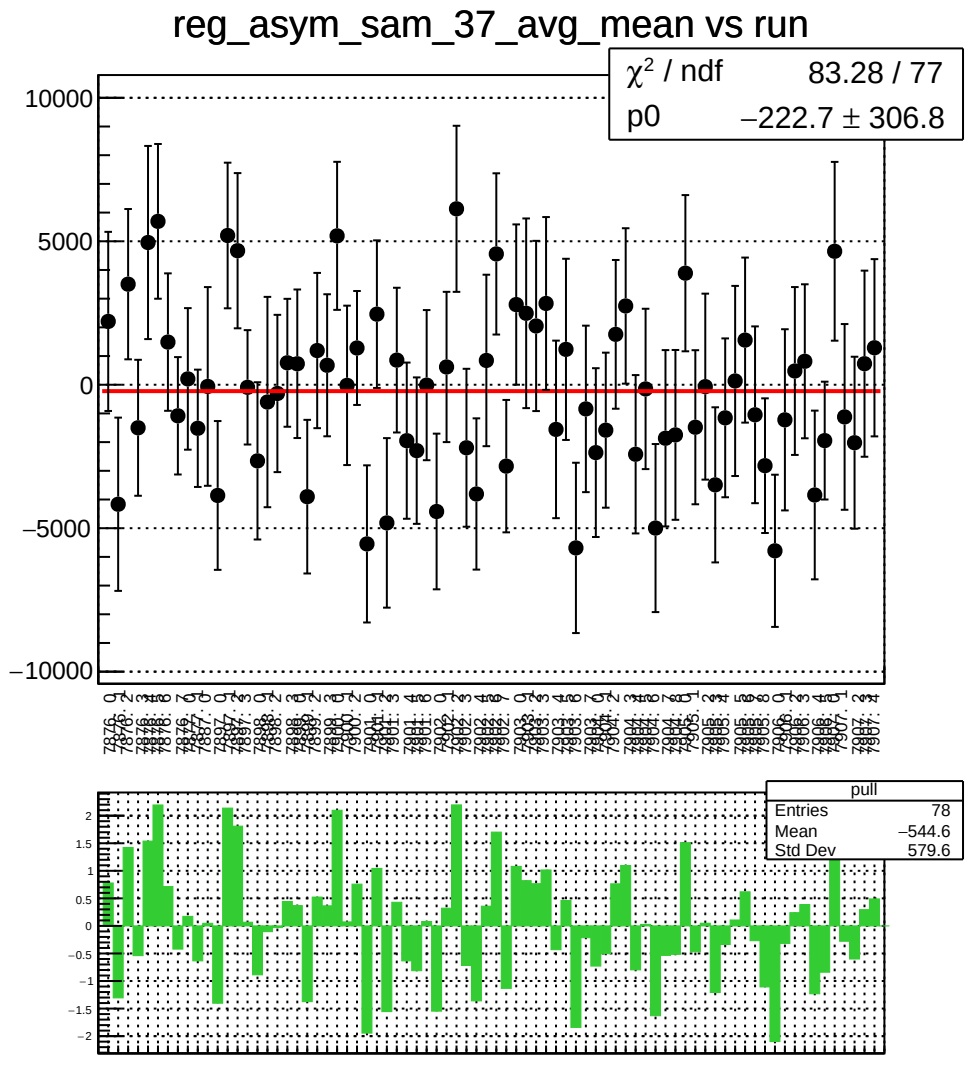

pull1D
Entries 78
Mean 0.01074
Std Dev 0.9467

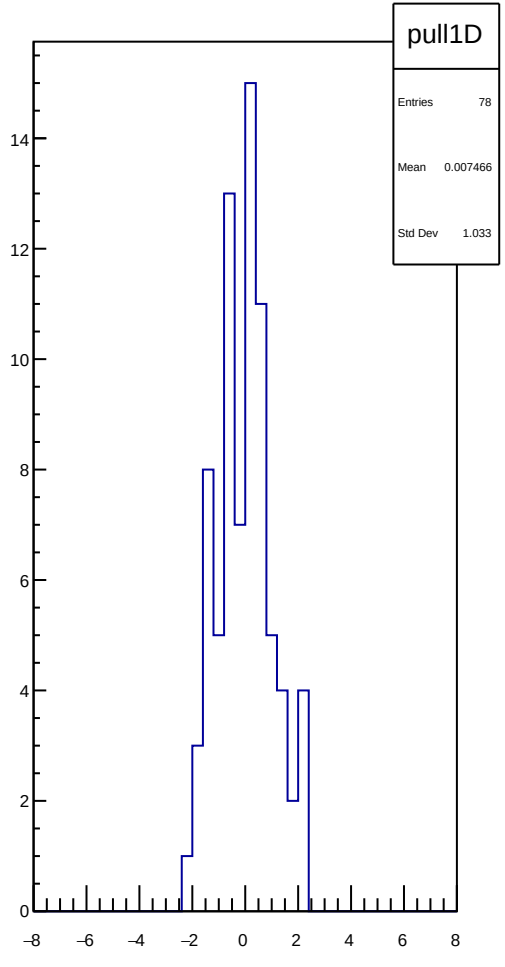

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1.271e+04 / 77
p0 2158 ± 1.76
2800
2600
2400
2200
2000
1800

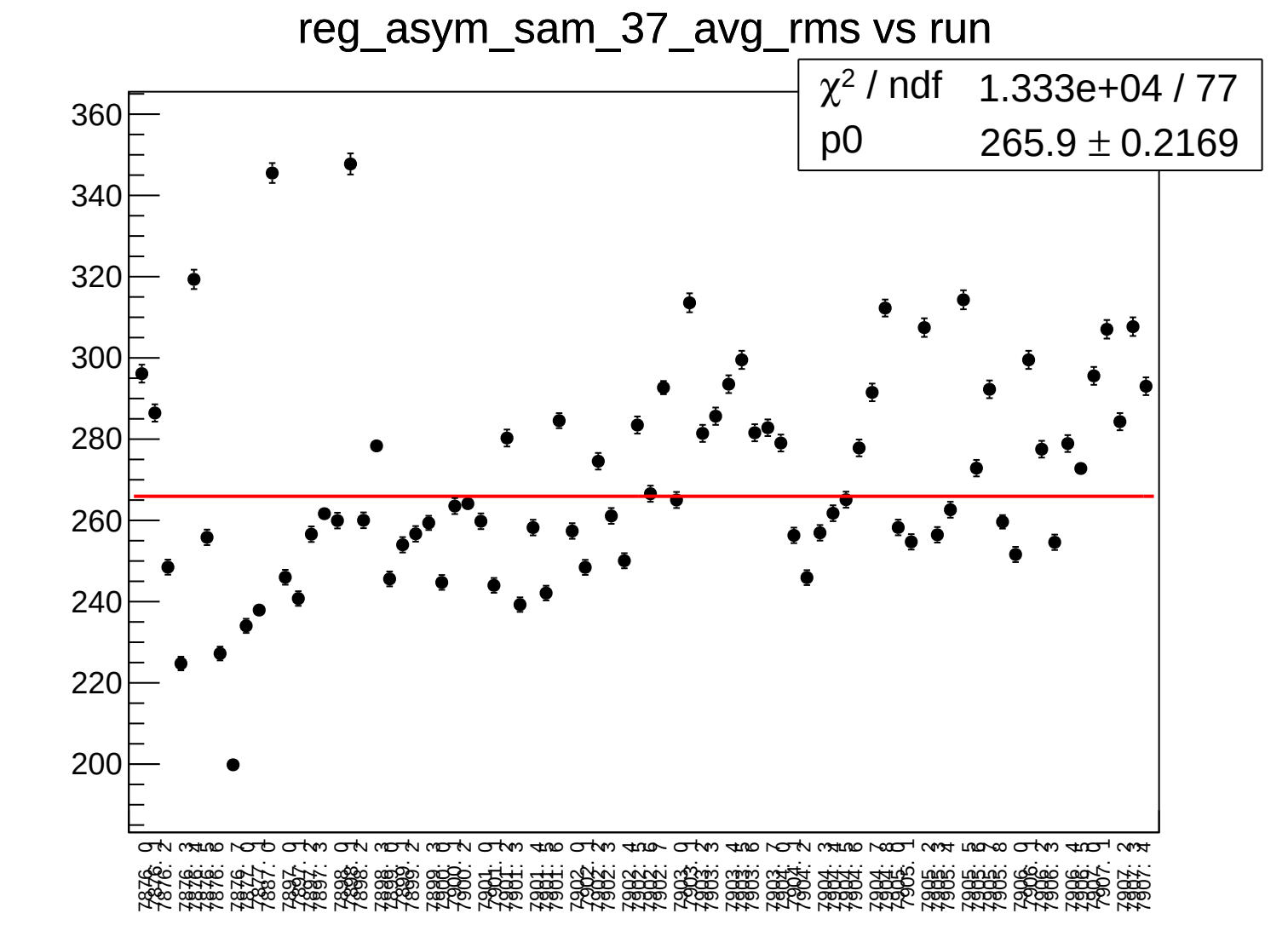

asym_sam_26_avg_mean vs run
χ² / ndf 70.6 / 77
p0 3199 ± 2509
pull
Entries 78
Mean 30.87
Std Dev 70.96

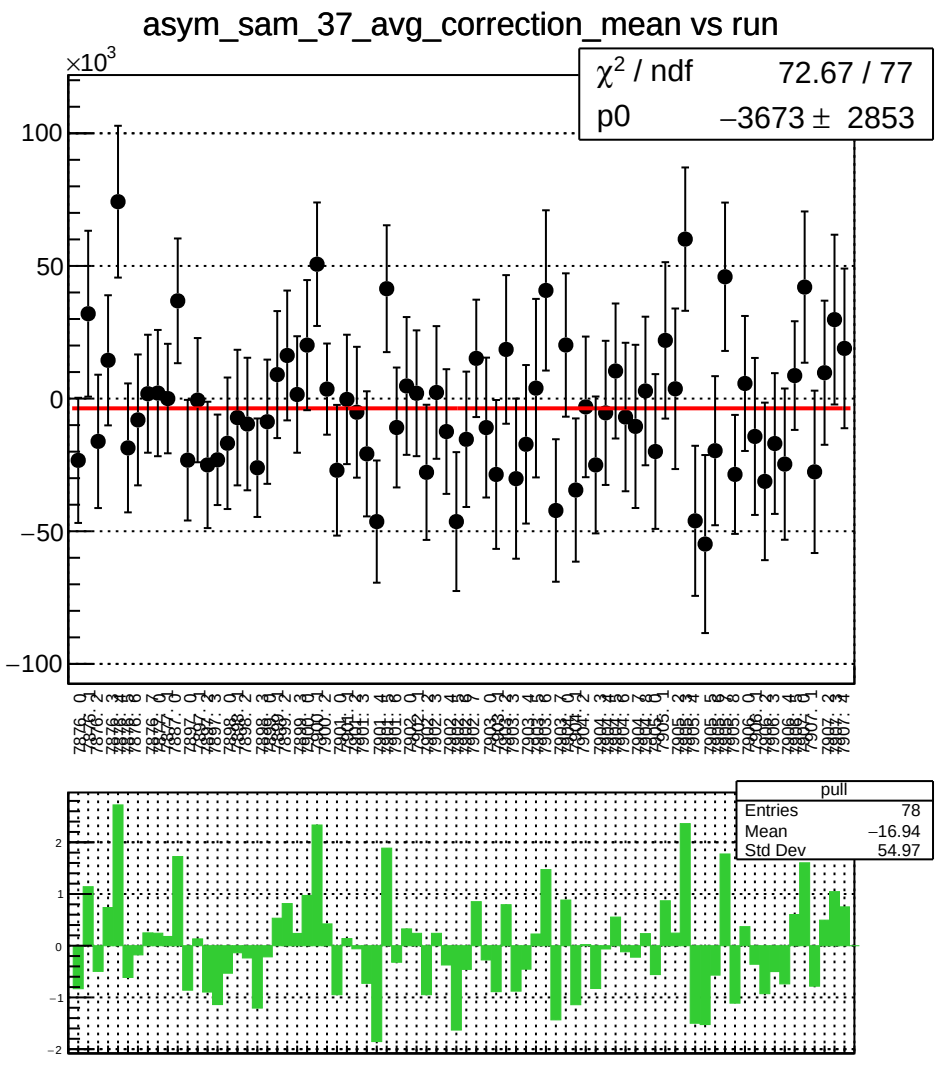

pull1D
Entries 78
Mean −0.01101
Std Dev 0.9513

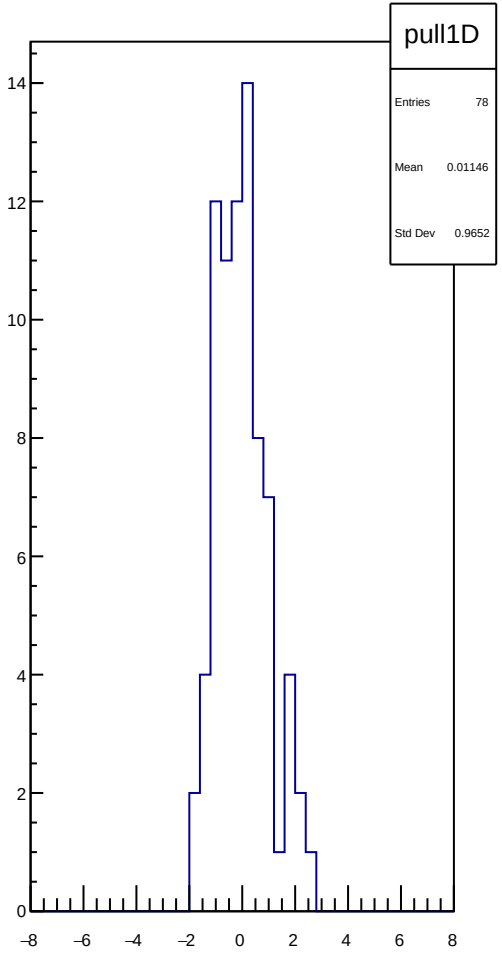

asym_sam_26_avg_rms vs run
χ² / ndf 1.27e+04 / 77
p0 2175 ± 1.774
2800
2600
2400
2200
2000
1800

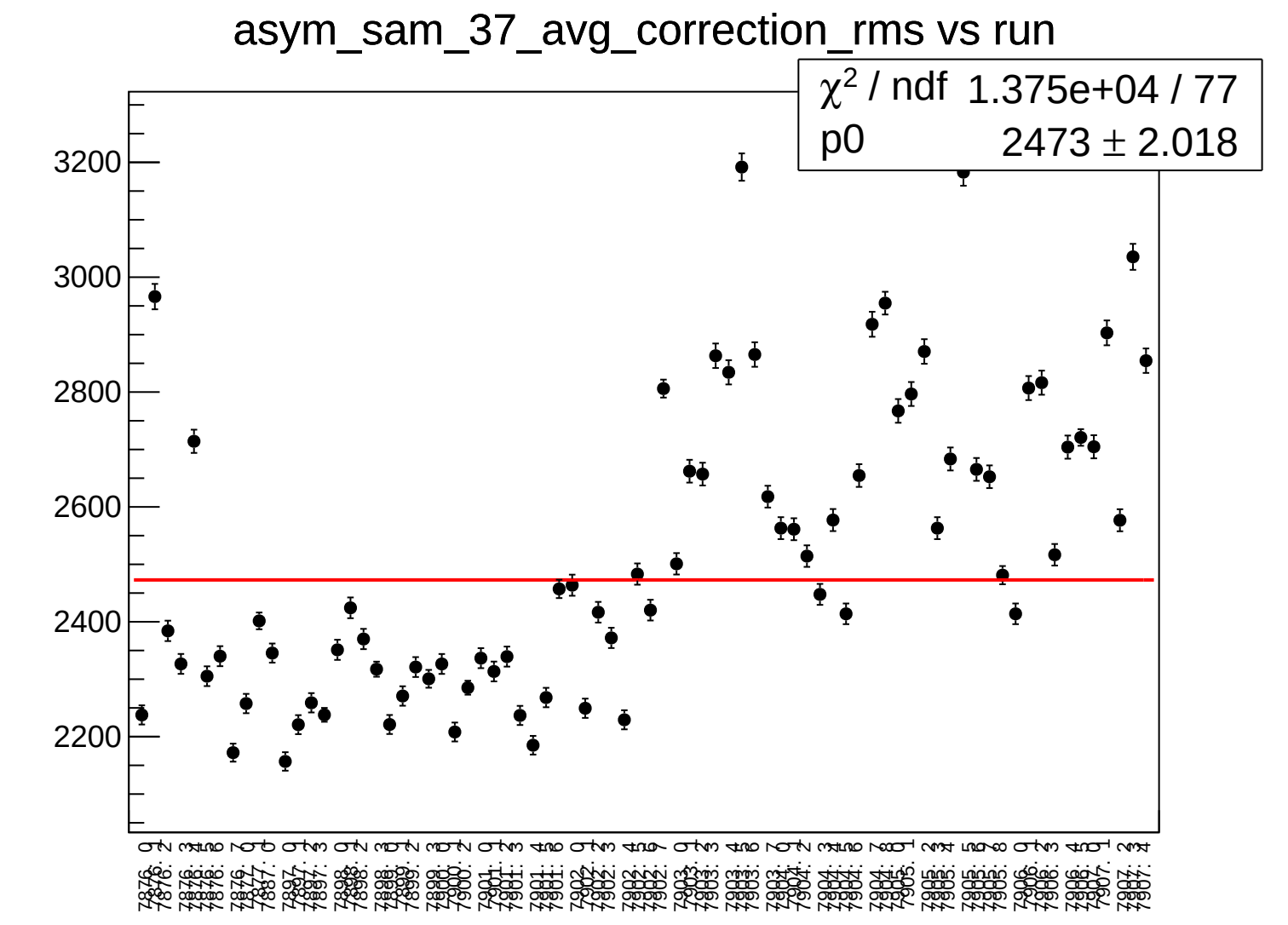

reg_asym_sam_37_avg_mean vs run
χ² / ndf 83.28 / 77
p0 −222.7 ± 306.8
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −544.6
Std Dev 579.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

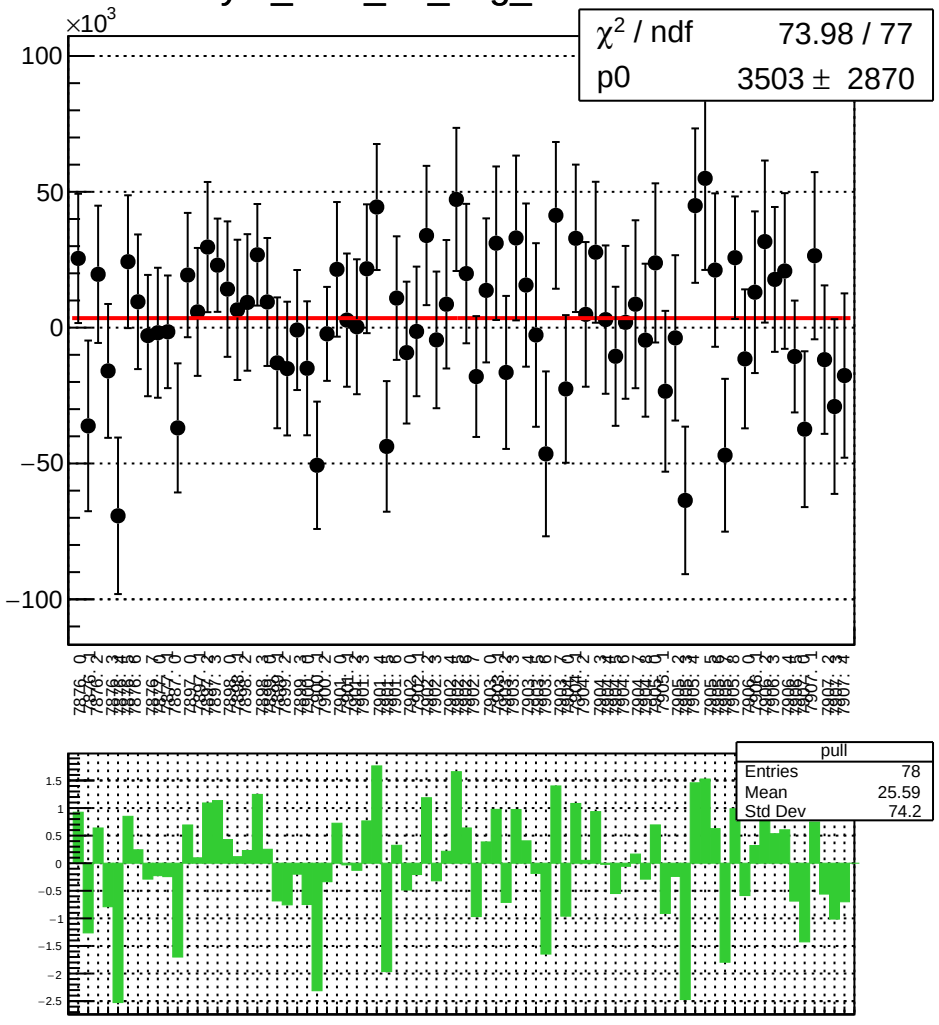

pull1D
Entries 78
Mean 0.007466
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

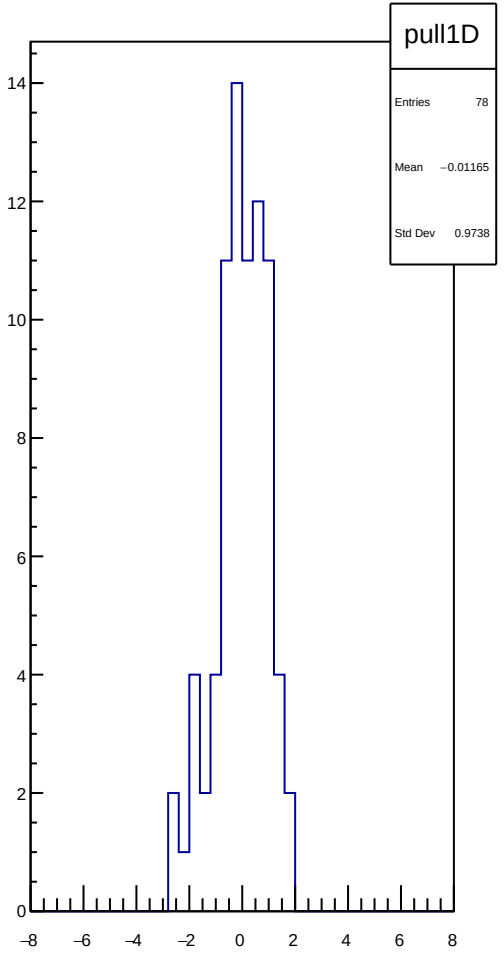

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.333e+04 / 77
p0 265.9 ± 0.2169
360
340
320
300
280
260
240
220
200

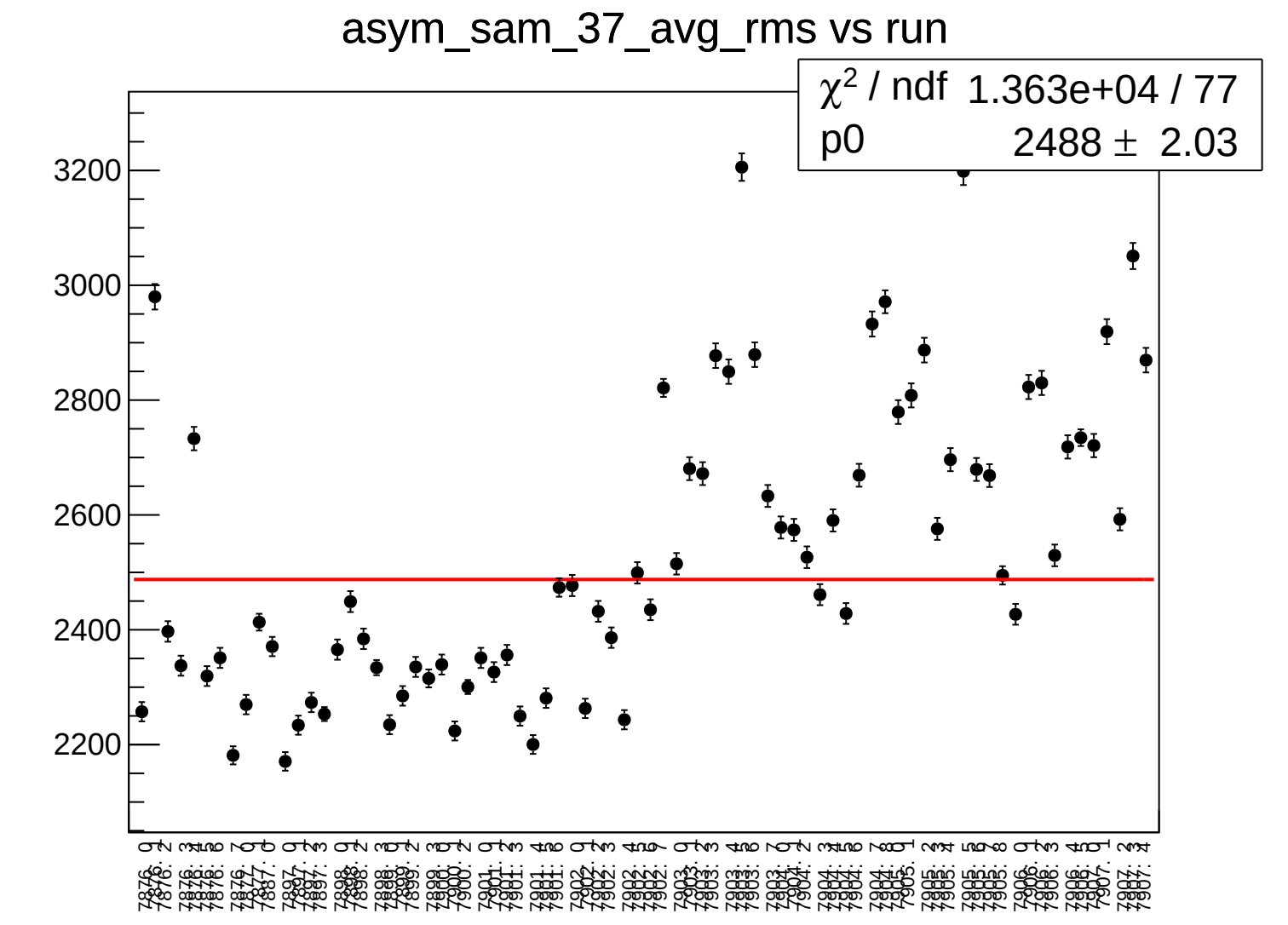

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 72.67 / 77
p0 −3673 ± 2853
100
50
0
−50
−100
pull
Entries 78
Mean −16.94
Std Dev 54.97
2
1
0
−1
−2

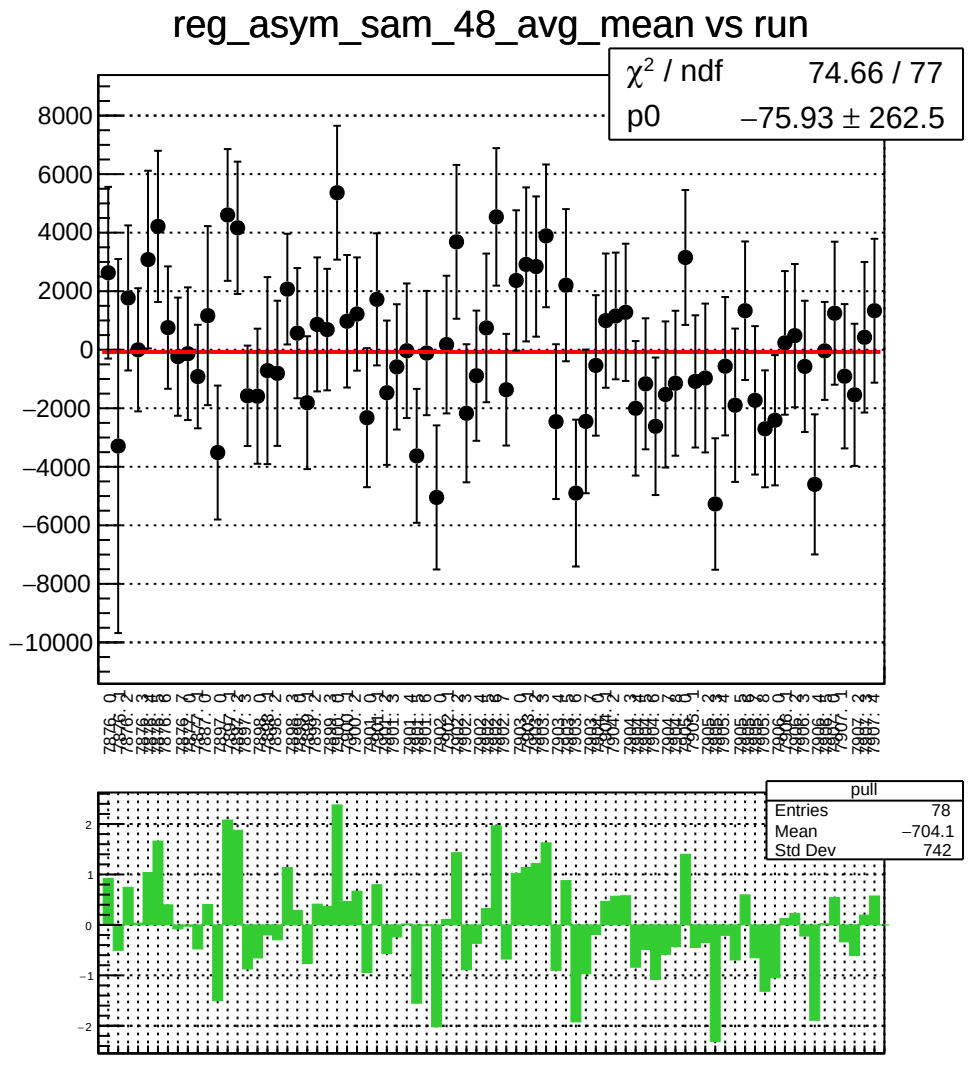

pull1D
Entries 78
Mean 0.01146
Std Dev 0.9652
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

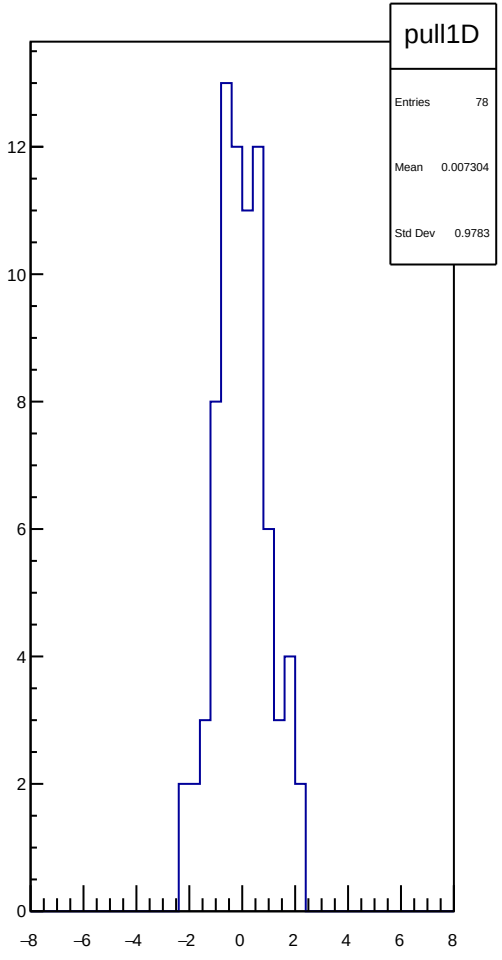

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1.375e+04 / 77
p0 2473 ± 2.018
3200
3000
2800
2600
2400
2200

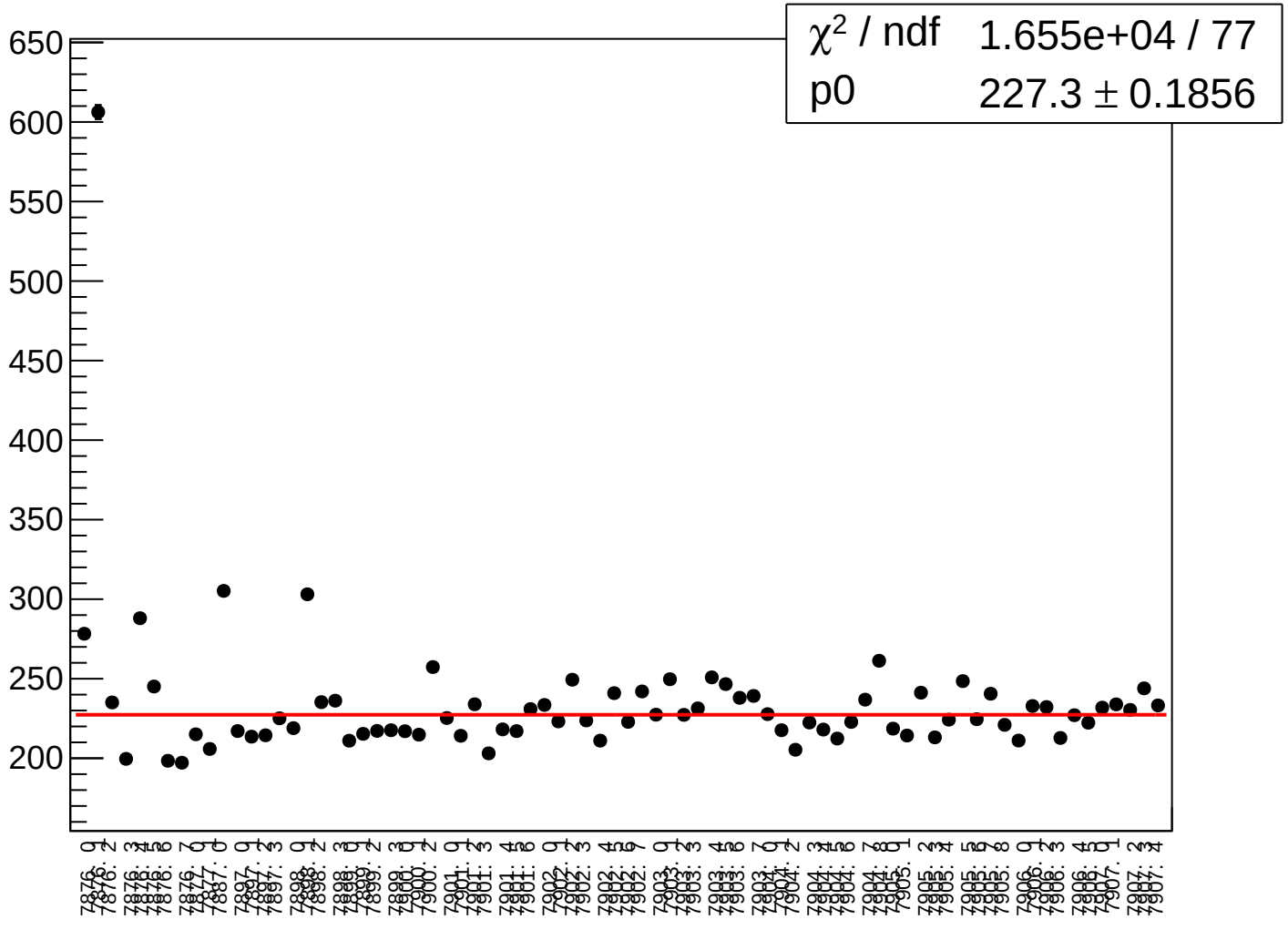

asym_sam_37_avg_mean vs run
×10^3
χ² / ndf 73.98 / 77
p0 3503 ± 2870
pull
Entries 78
Mean 25.59
Std Dev 74.2

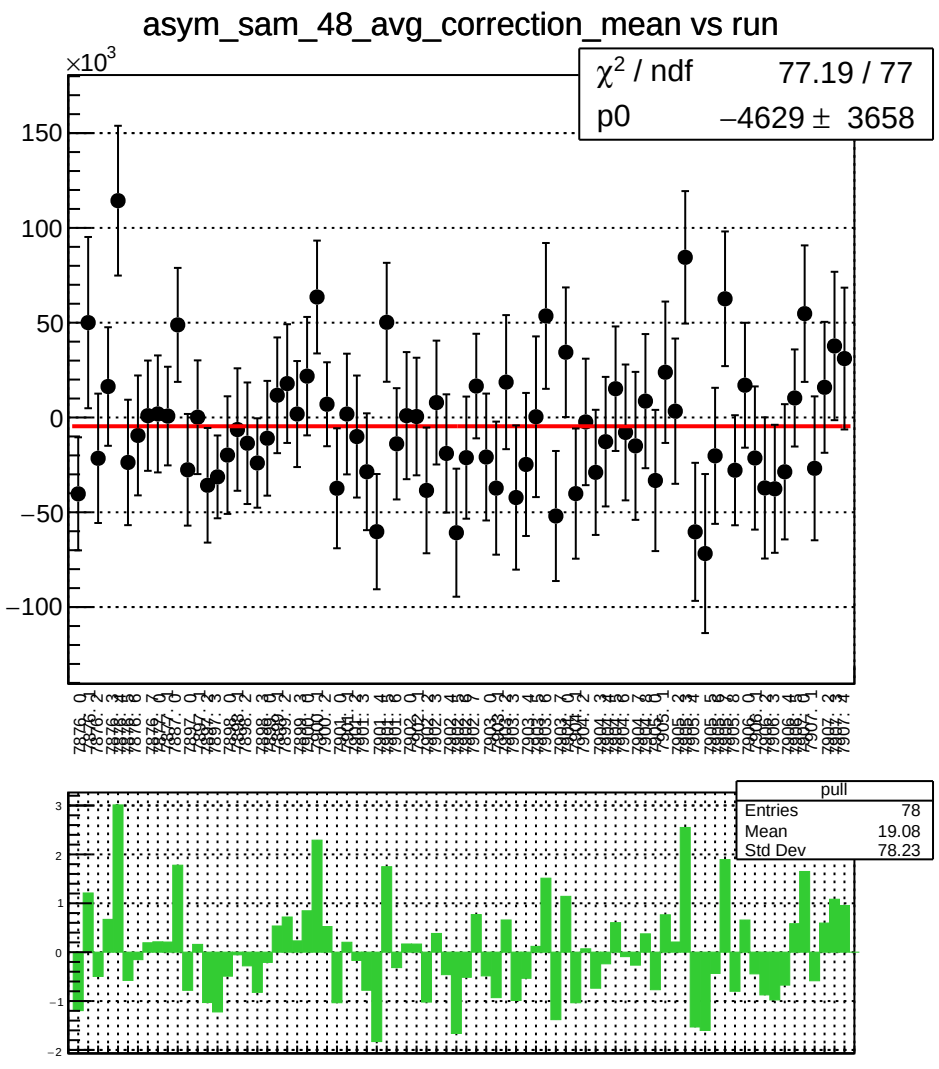

pull1D
Entries 78
Mean −0.01165
Std Dev 0.9738

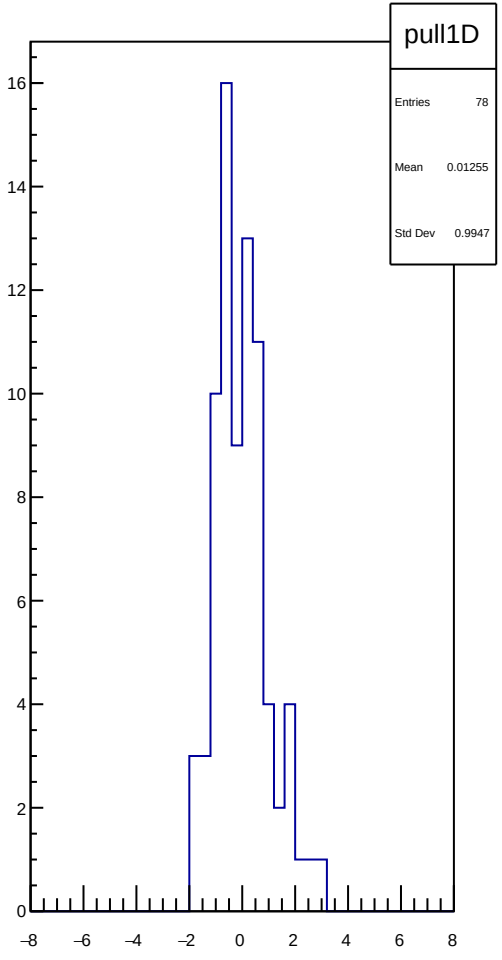

asym_sam_37_avg_rms vs run
χ² / ndf 1.363e+04 / 77
p0 2488 ± 2.03
3200
3000
2800
2600
2400
2200

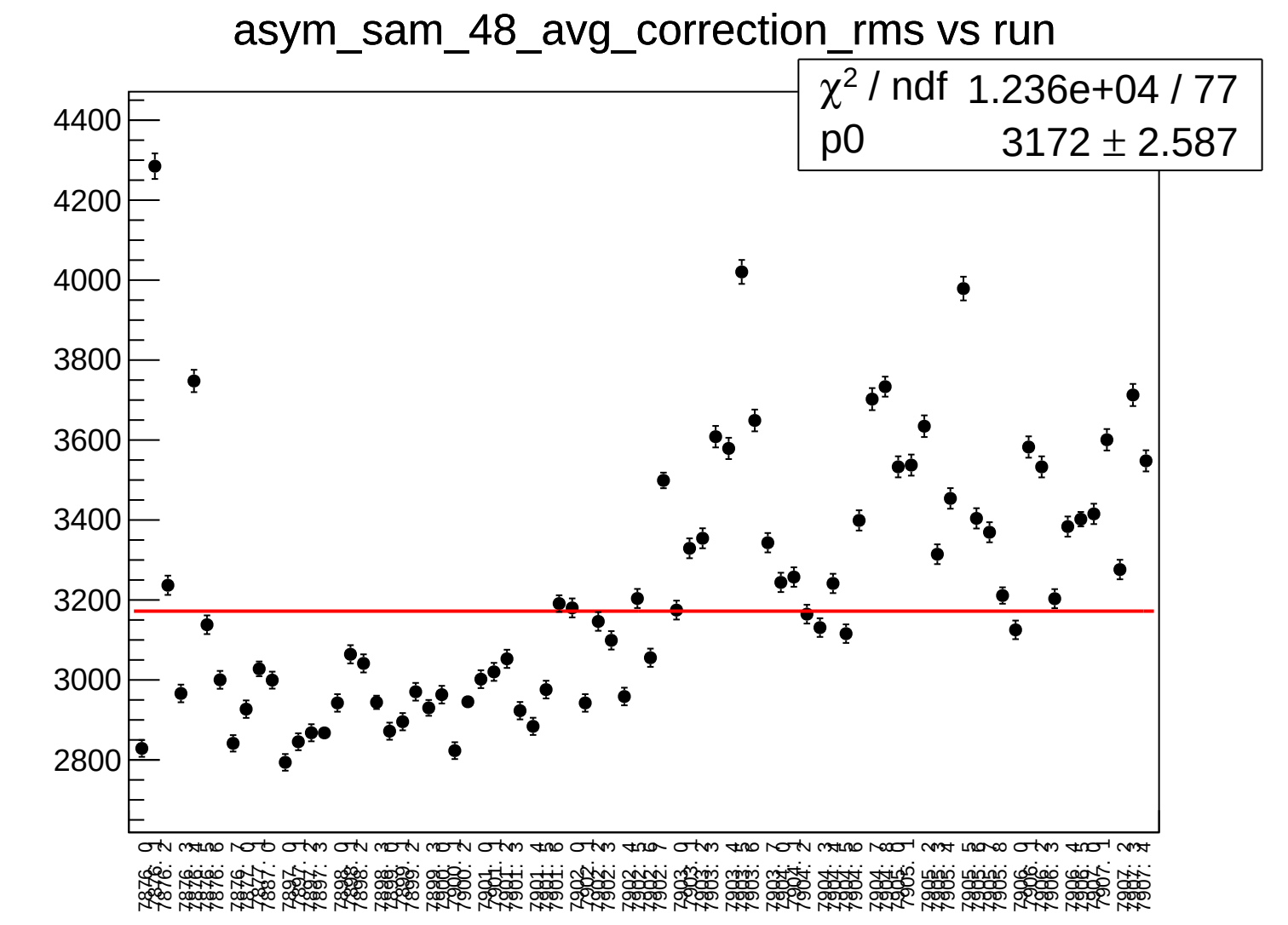

reg_asym_sam_48_avg_mean vs run
χ² / ndf 74.66 / 77
p0 −75.93 ± 262.5
pull
Entries 78
Mean −704.1
Std Dev 742

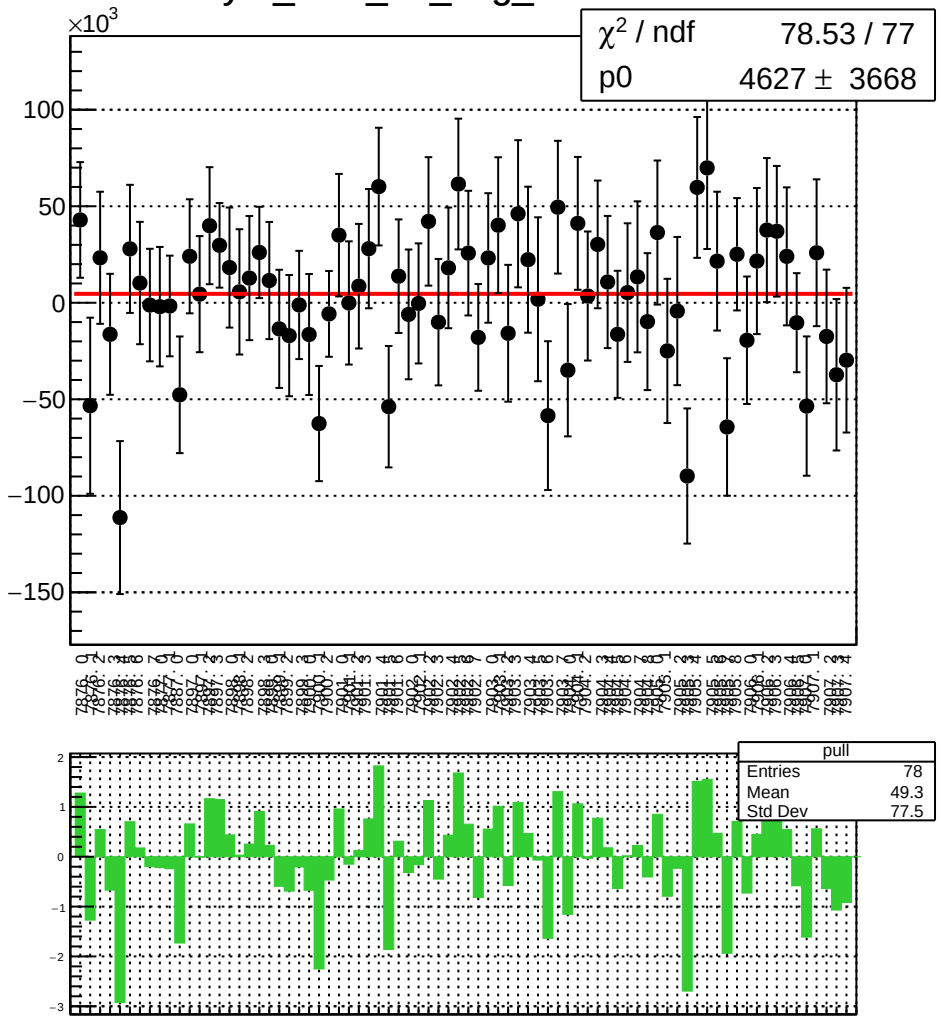

pull1D
Entries 78
Mean 0.007304
Std Dev 0.9783

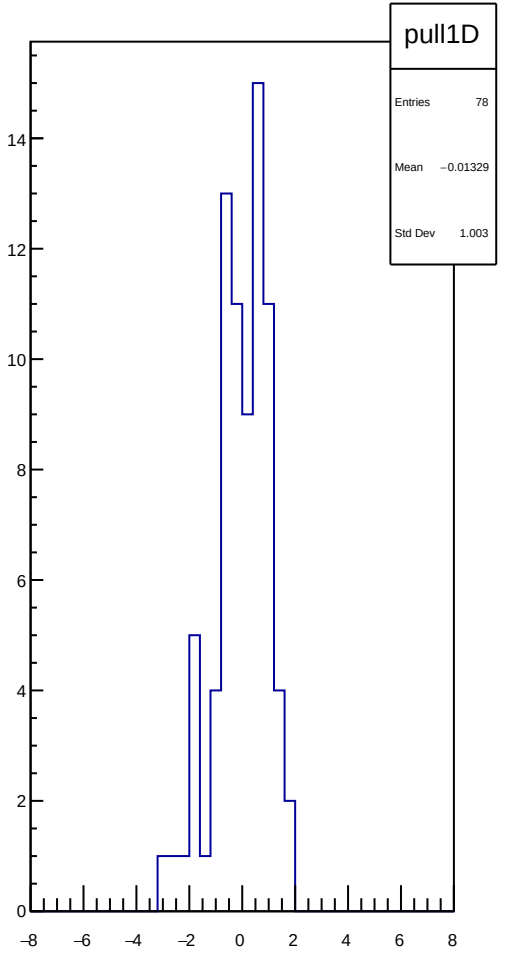

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.655e+04 / 77
p0 227.3 ± 0.1856
650
600
550
500
450
400
350
300
250
200

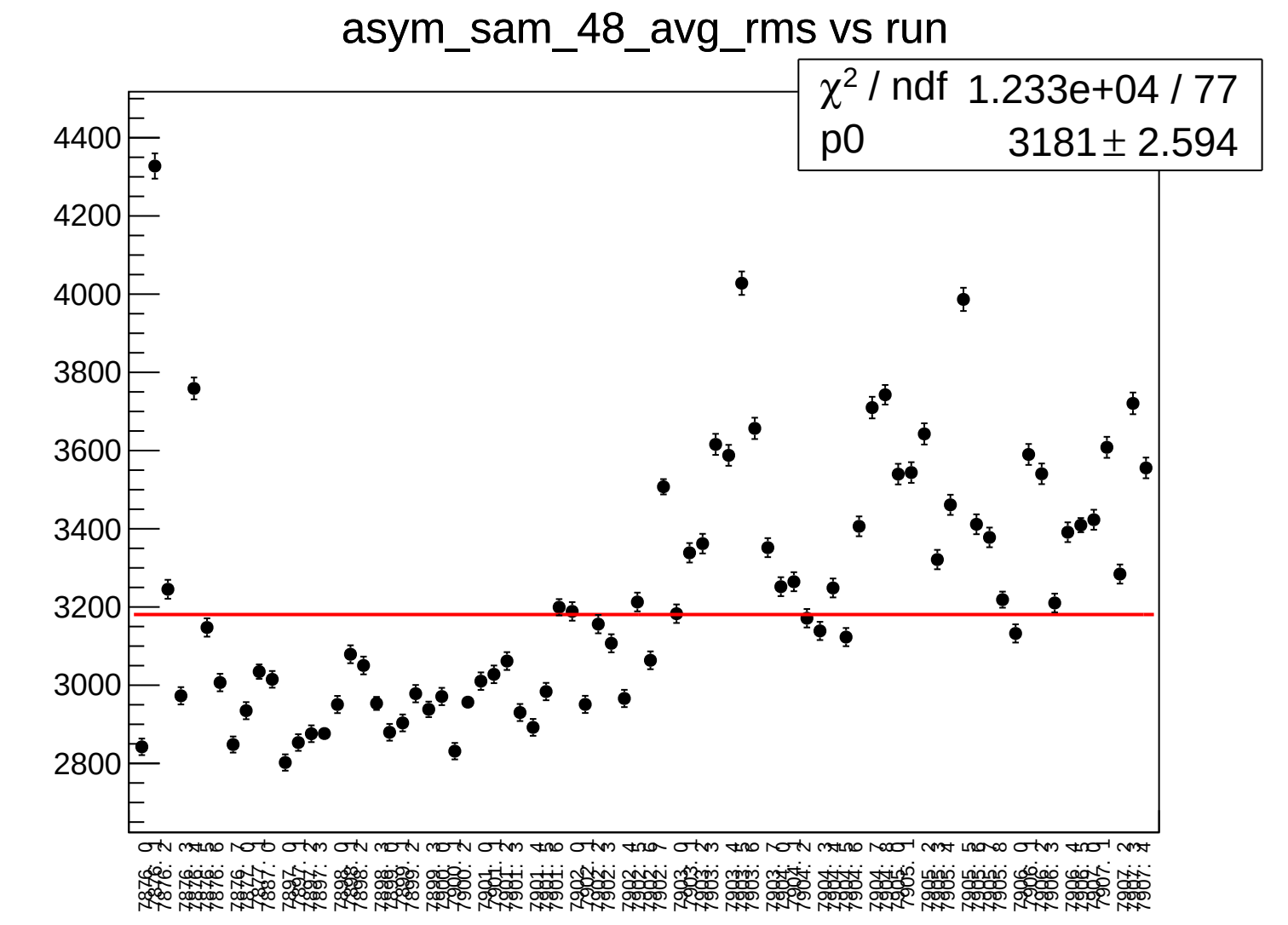

asym_sam_48_avg_correction_mean vs run
×10^3
χ² / ndf 77.19 / 77
p0 −4629 ± 3658
150
100
50
0
−50
−100
pull
Entries 78
Mean 19.08
Std Dev 78.23
3
2
1
0
−1
−2

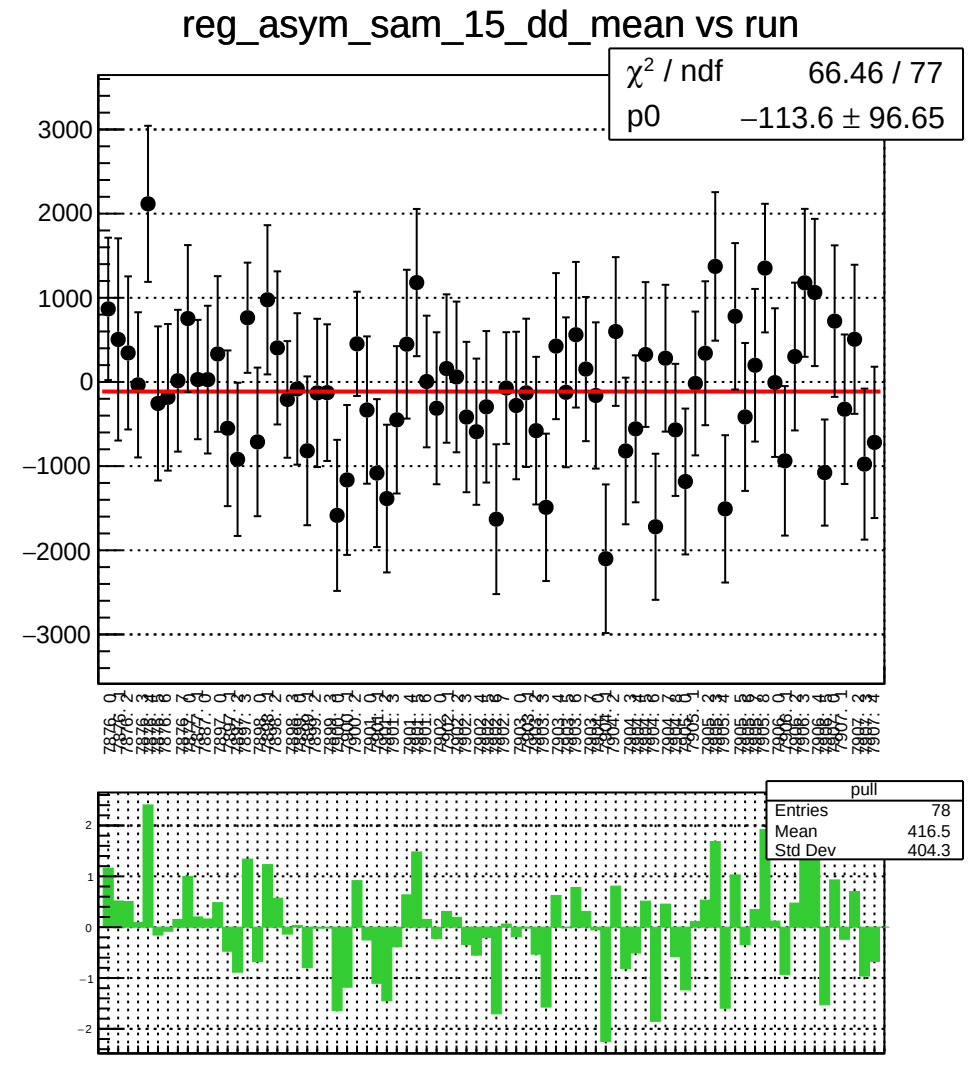

pull1D
Entries 78
Mean 0.01255
Std Dev 0.9947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

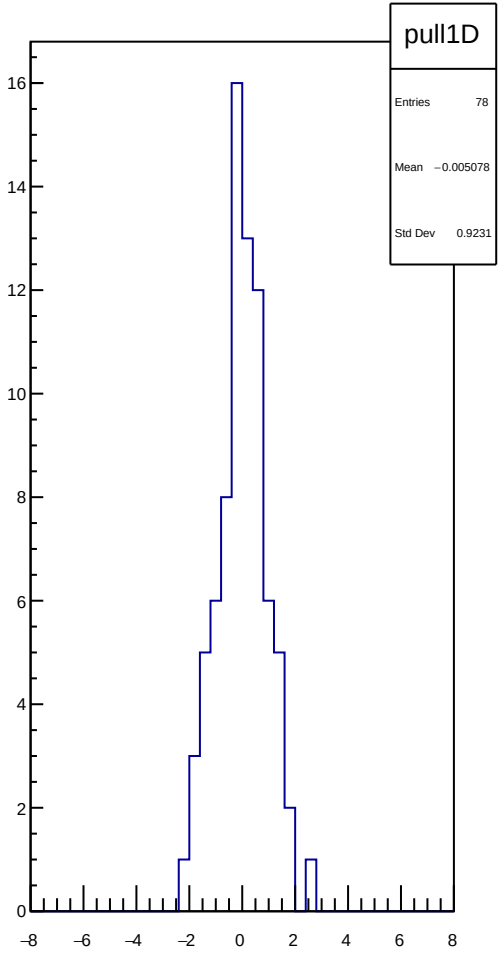

asym_sam_48_avg_correction_rms vs run
χ² / ndf 1.236e+04 / 77
p0 3172 ± 2.587
4400
4200
4000
3800
3600
3400
3200
3000
2800

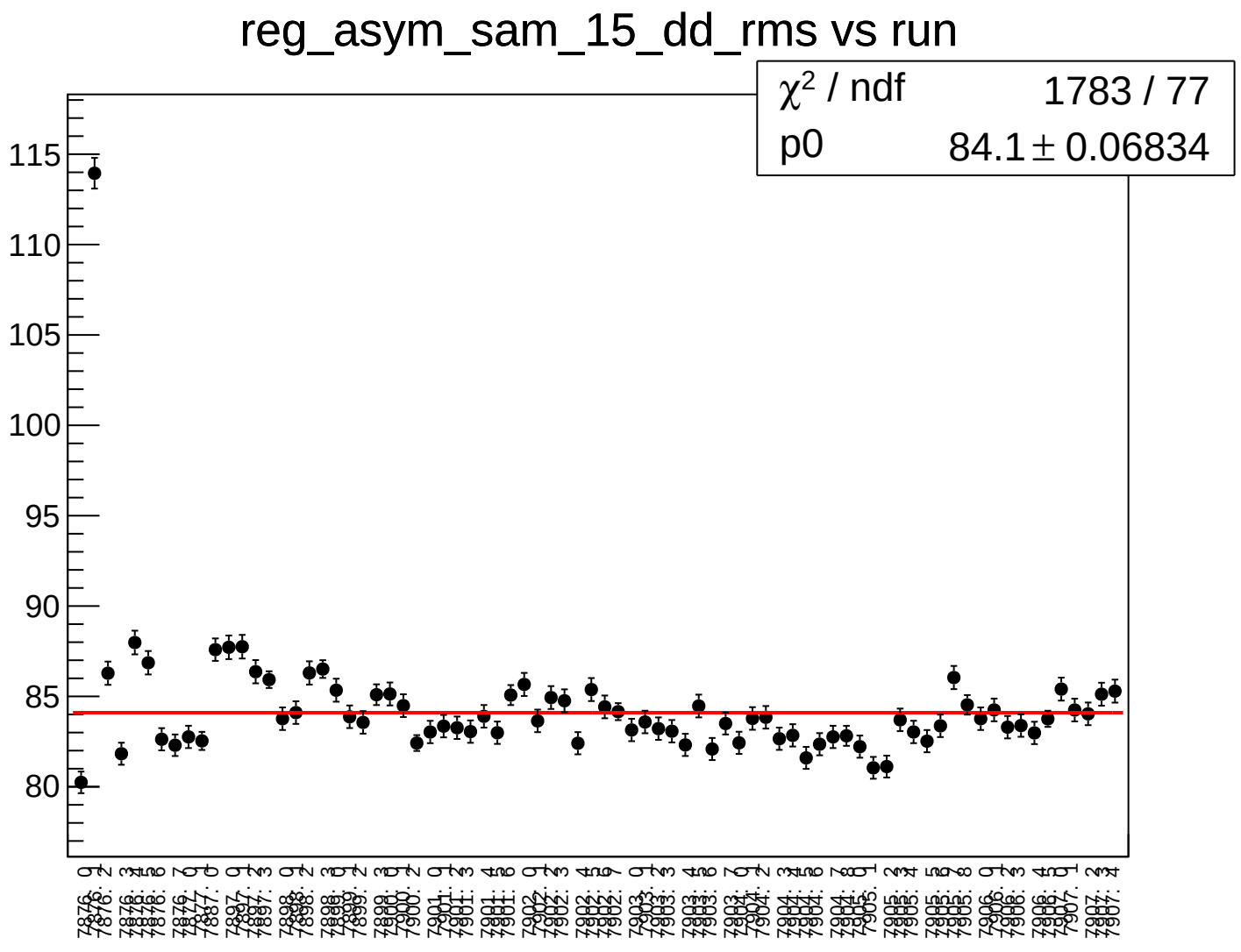

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 78.53 / 77
p0 4627 ± 3668
100
50
0
−50
−100
−150
pull
Entries 78
Mean 49.3
Std Dev 77.5
2
1
0
−1
−2
−3

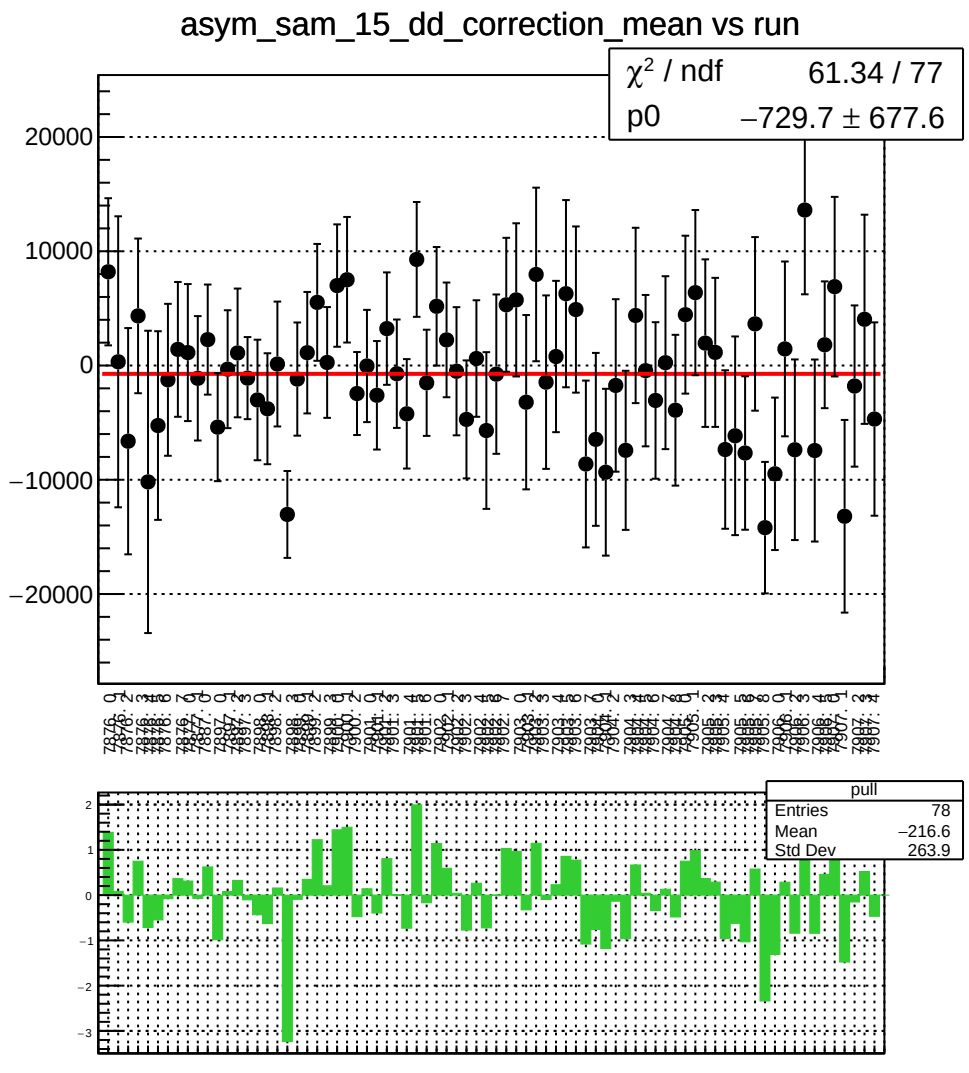

pull1D
Entries 78
Mean −0.01329
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

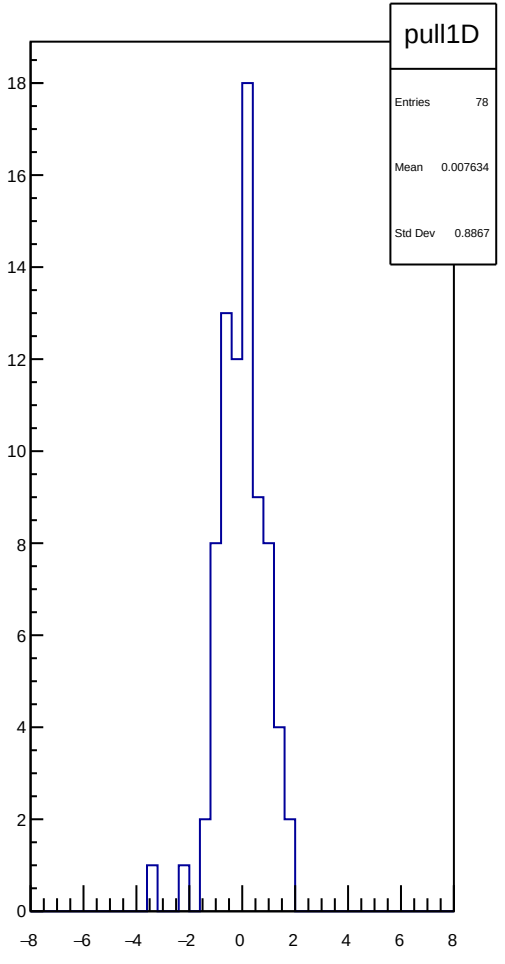

asym_sam_48_avg_rms vs run
χ^2 / ndf 1.233e+04 / 77
p0 3181 ± 2.594
4400
4200
4000
3800
3600
3400
3200
3000
2800

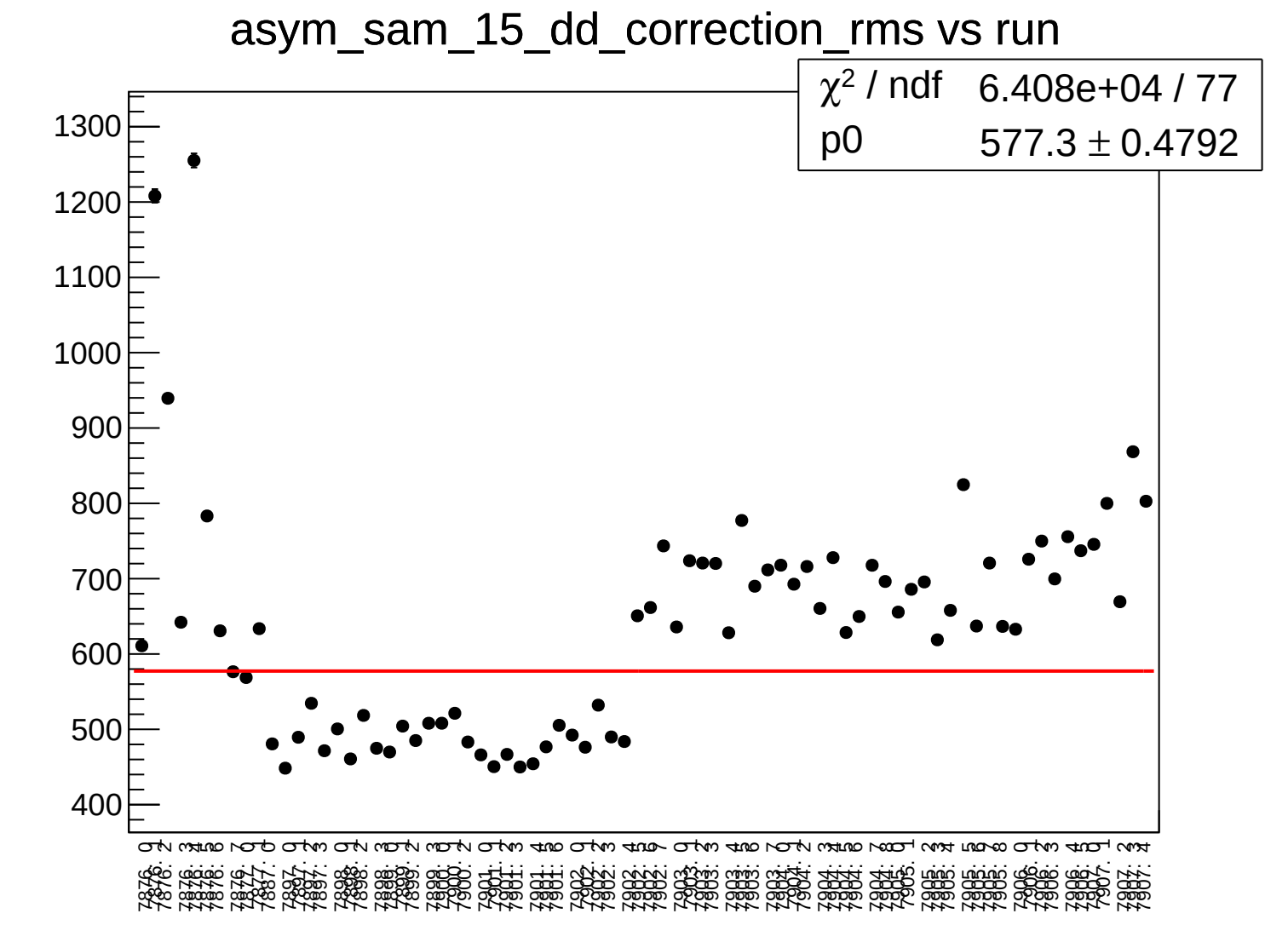

reg_asym_sam_15_dd_mean vs run
χ² / ndf 66.46 / 77
p0 −113.6 ± 96.65
pull
Entries 78
Mean 416.5
Std Dev 404.3

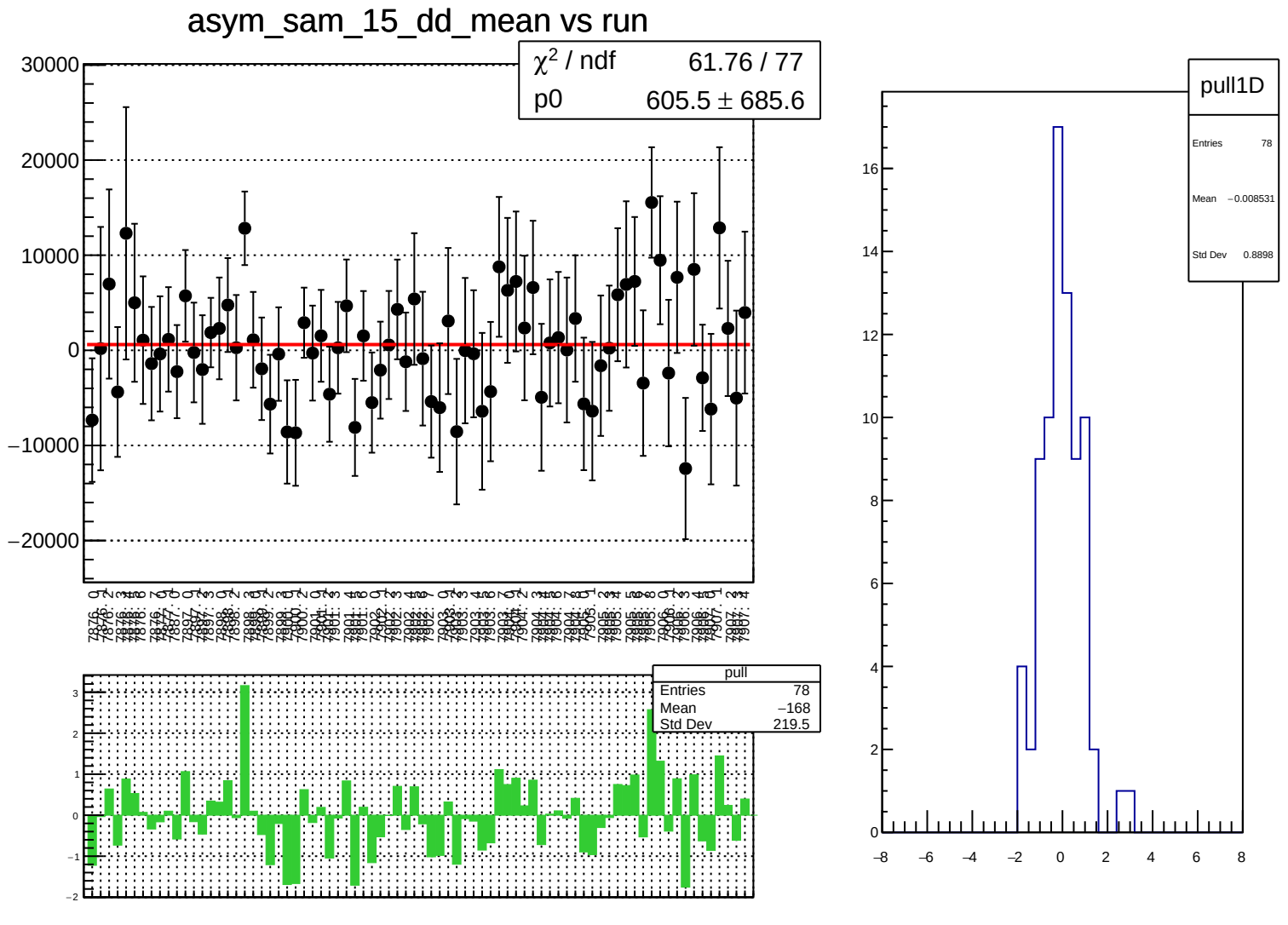

pull1D
Entries 78
Mean −0.005078
Std Dev 0.9231

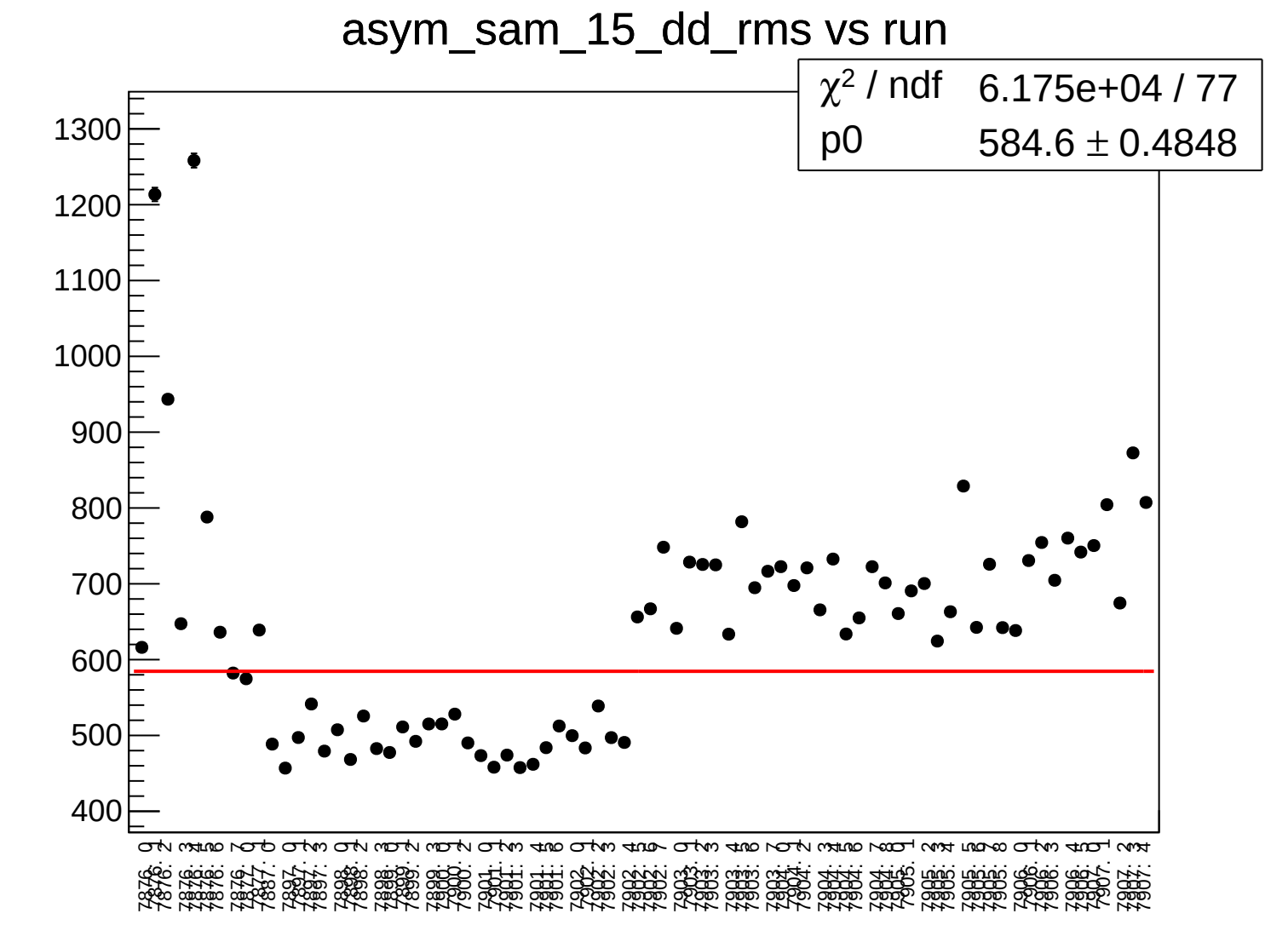

reg_asym_sam_15_dd_rms vs run
χ² / ndf 1783 / 77
p0 84.1 ± 0.06834
115
110
105
100
95
90
85
80

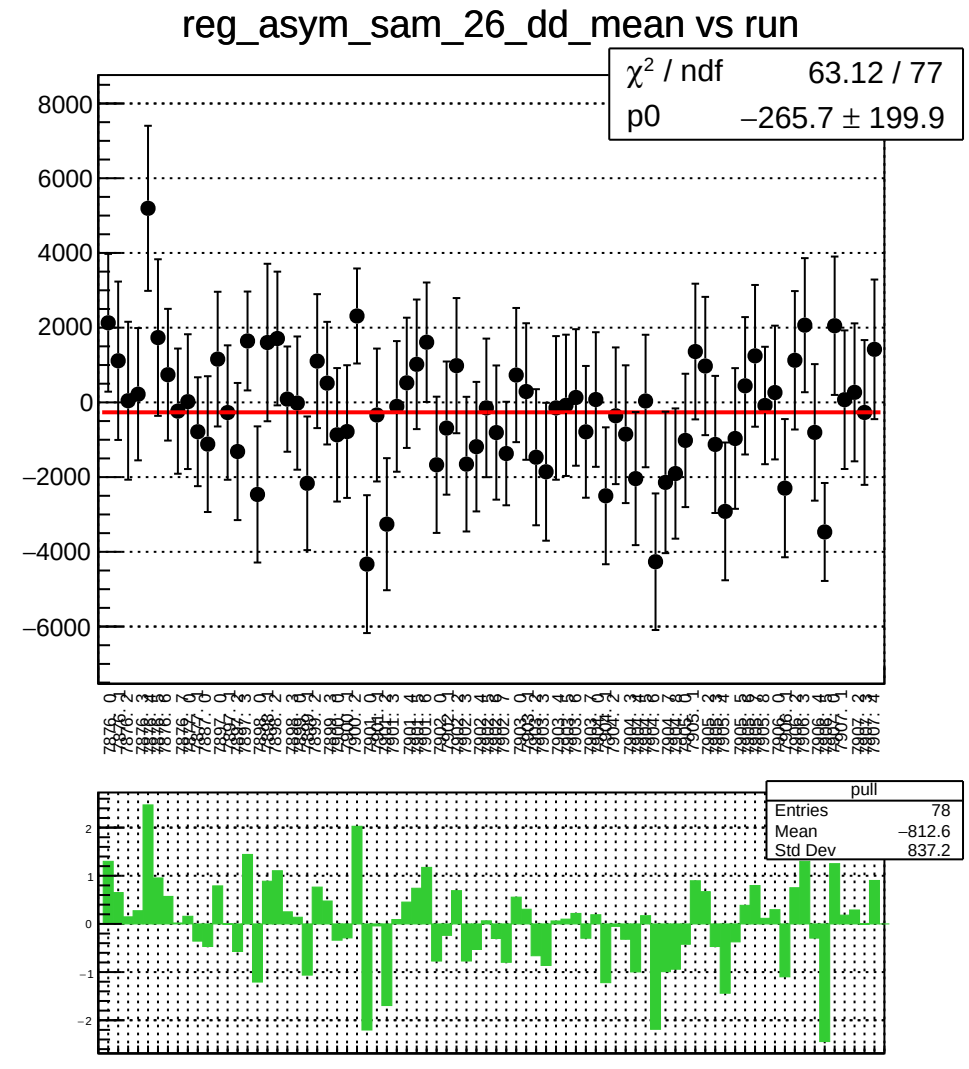

asym_sam_15_dd_correction_mean vs run
χ² / ndf 61.34 / 77
p0 −729.7 ± 677.6
20000
10000
0
−10000
−20000
pull
Entries 78
Mean −216.6
Std Dev 263.9
2
1
0
−1
−2
−3

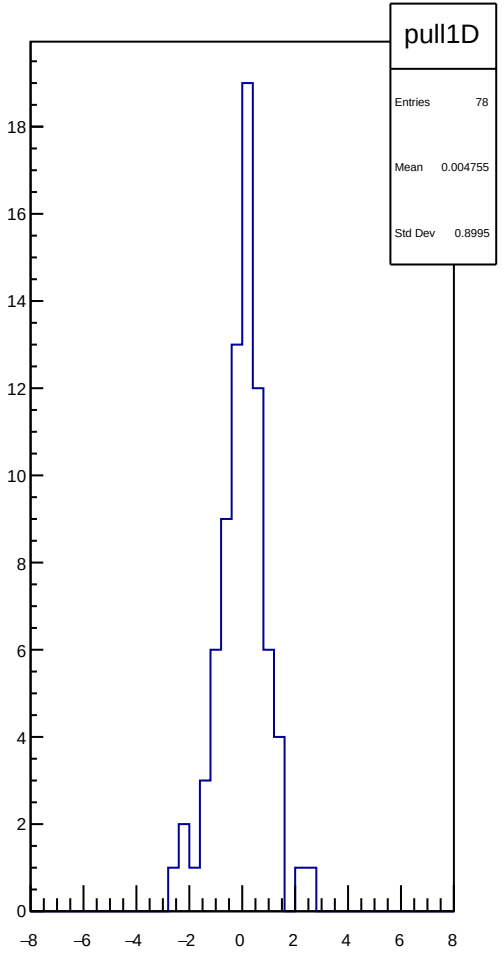

pull1D
Entries 78
Mean 0.007634
Std Dev 0.8867
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

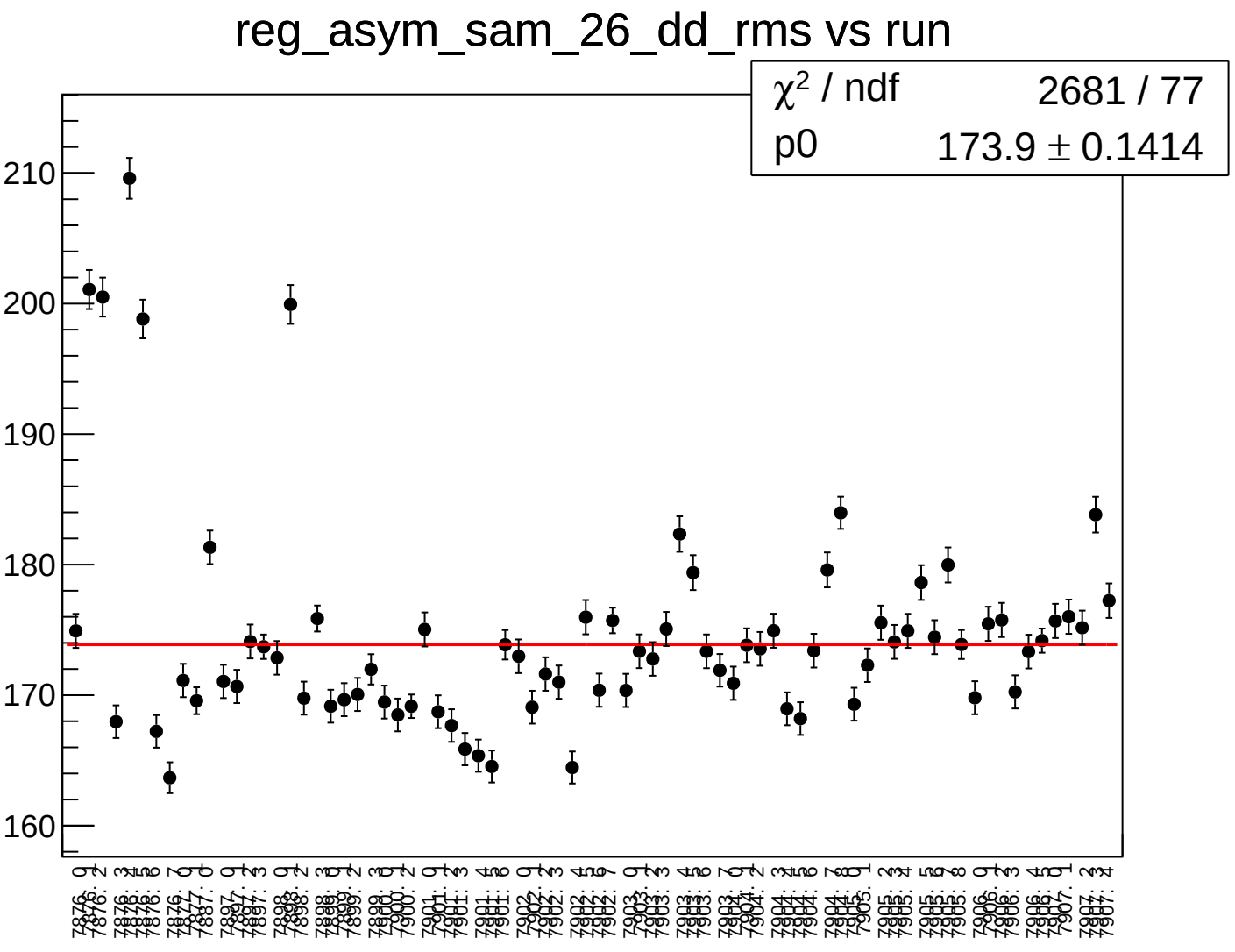

asym_sam_15_dd_correction_rms vs run
χ² / ndf 6.408e+04 / 77
p0 577.3 ± 0.4792
1300
1200
1100
1000
900
800
700
600
500
400

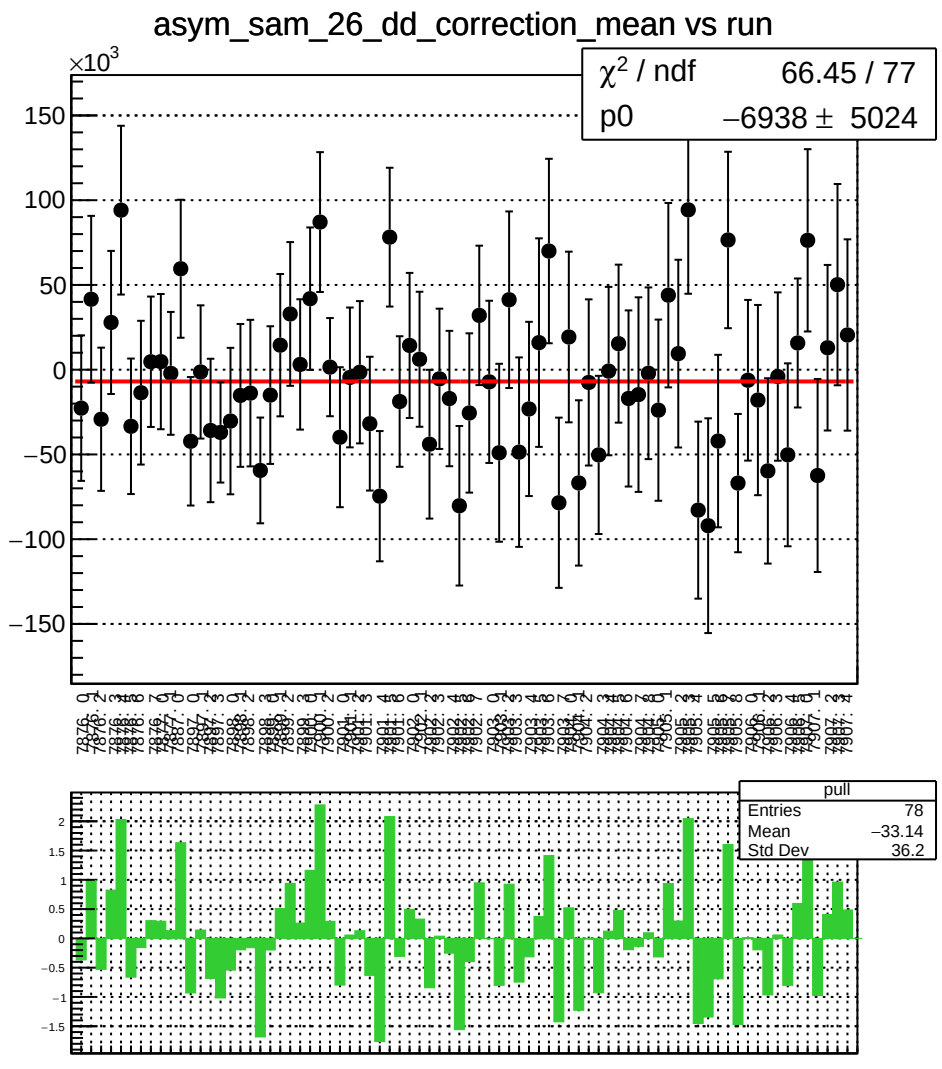

asym_sam_15_dd_mean vs run
χ² / ndf 61.76 / 77
p0 605.5 ± 685.6
30000
20000
10000
0
−10000
−20000
pull
Entries 78
Mean −168
Std Dev 219.5
3
2
1
0
−1
−2
pull1D
Entries 78
Mean −0.008531
Std Dev 0.8898
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

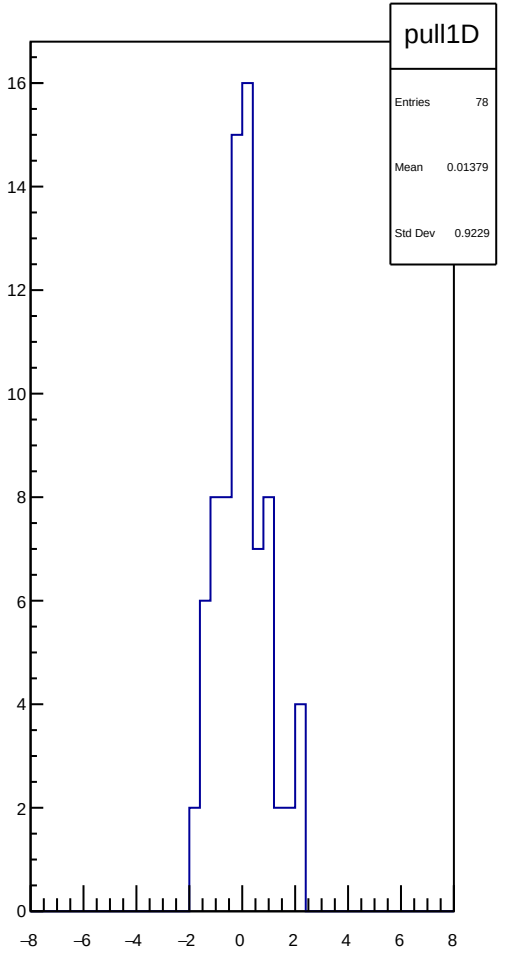

asym_sam_15_dd_rms vs run
χ² / ndf 6.175e+04 / 77
p0 584.6 ± 0.4848
1300
1200
1100
1000
900
800
700
600
500
400

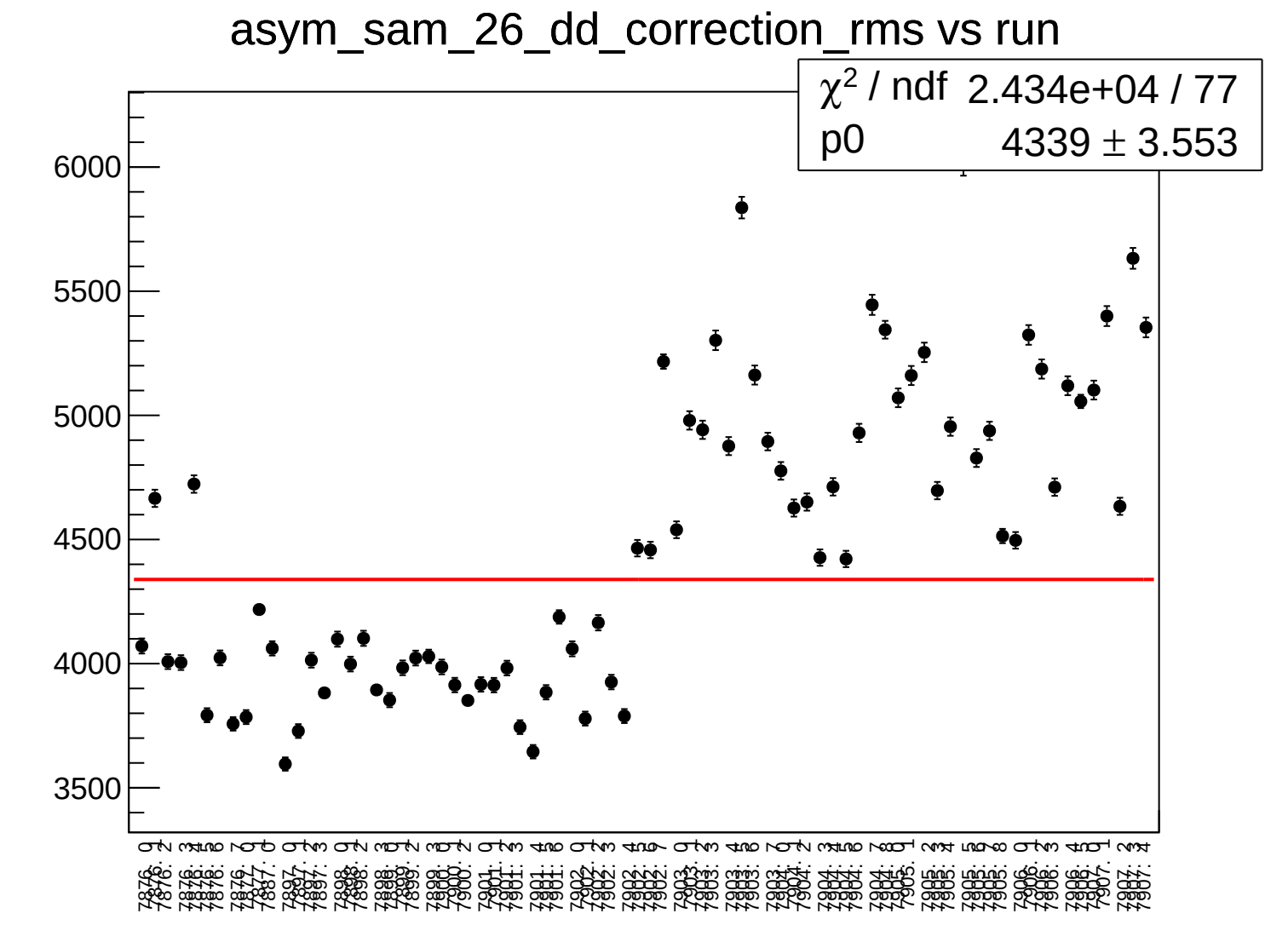

reg_asym_sam_26_dd_mean vs run
χ² / ndf 63.12 / 77
p0 −265.7 ± 199.9
pull
Entries 78
Mean −812.6
Std Dev 837.2

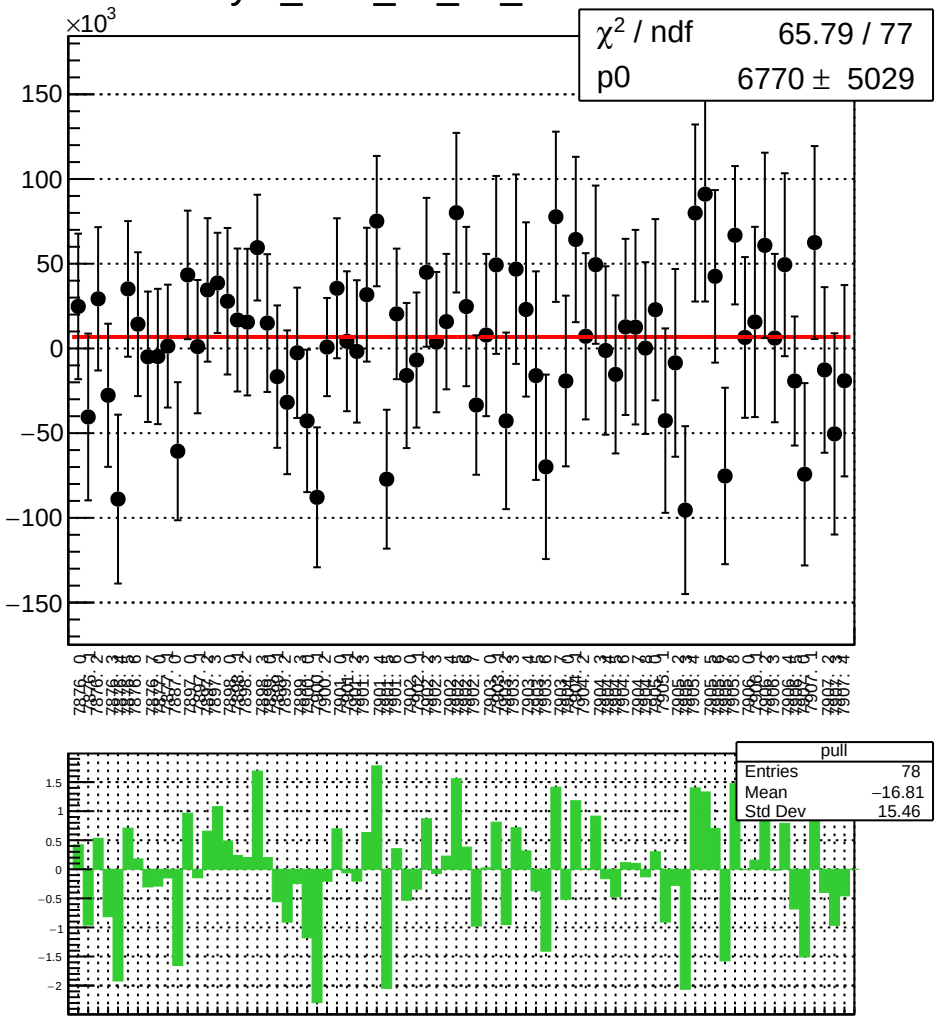

pull1D
Entries 78
Mean 0.004755
Std Dev 0.8995

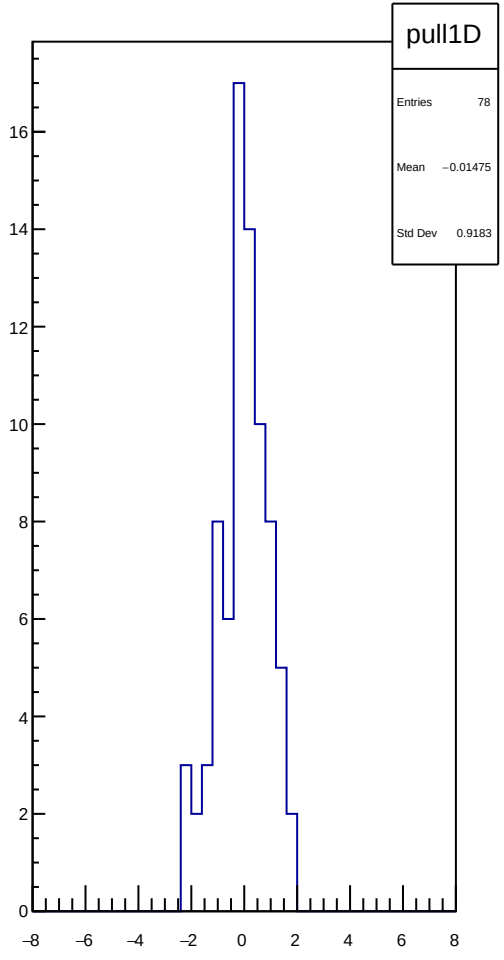

reg_asym_sam_26_dd_rms vs run
χ² / ndf 2681 / 77
p0 173.9 ± 0.1414
210
200
190
180
170
160

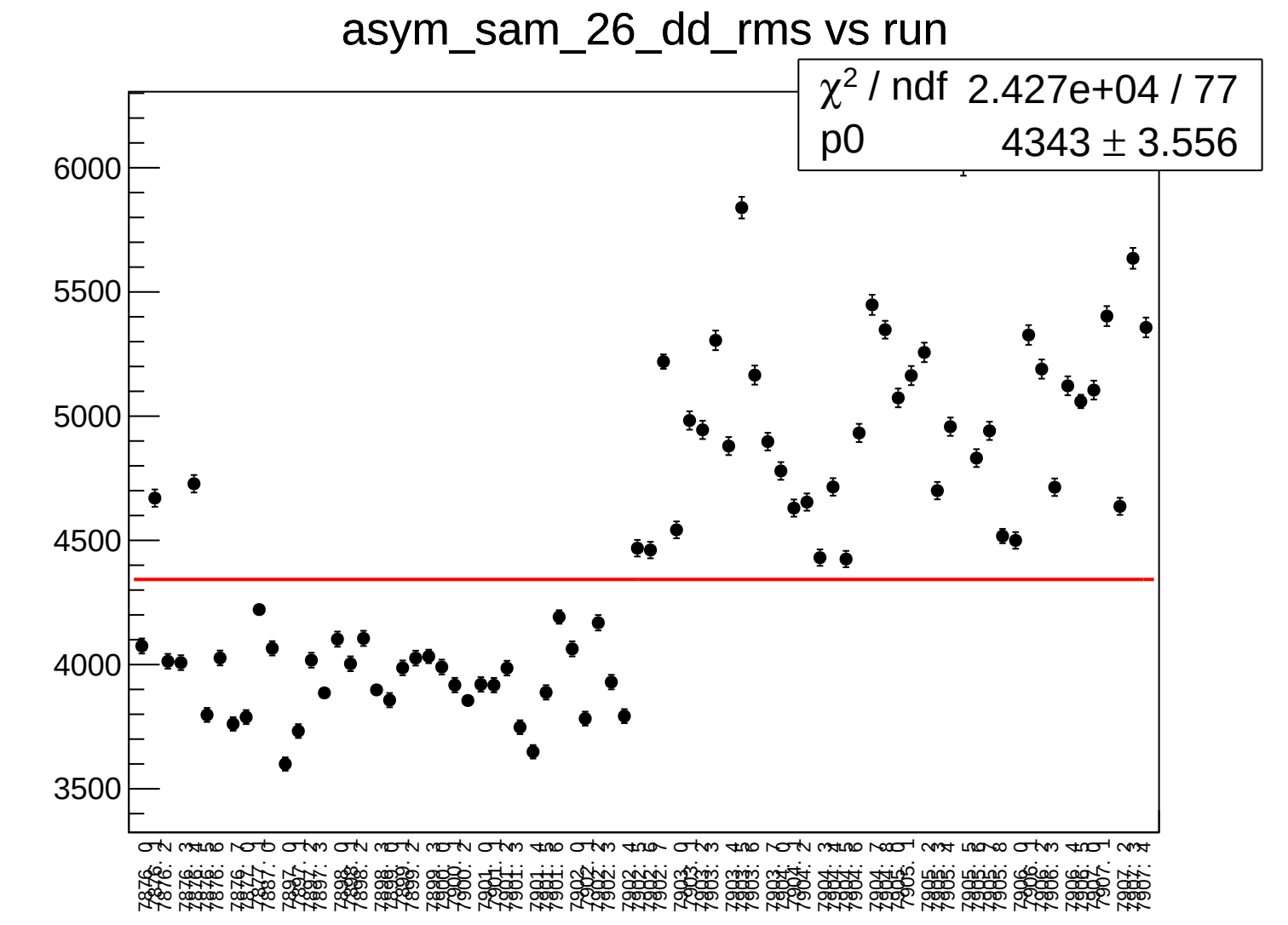

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 66.45 / 77
p0 −6938 ± 5024
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −33.14
Std Dev 36.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

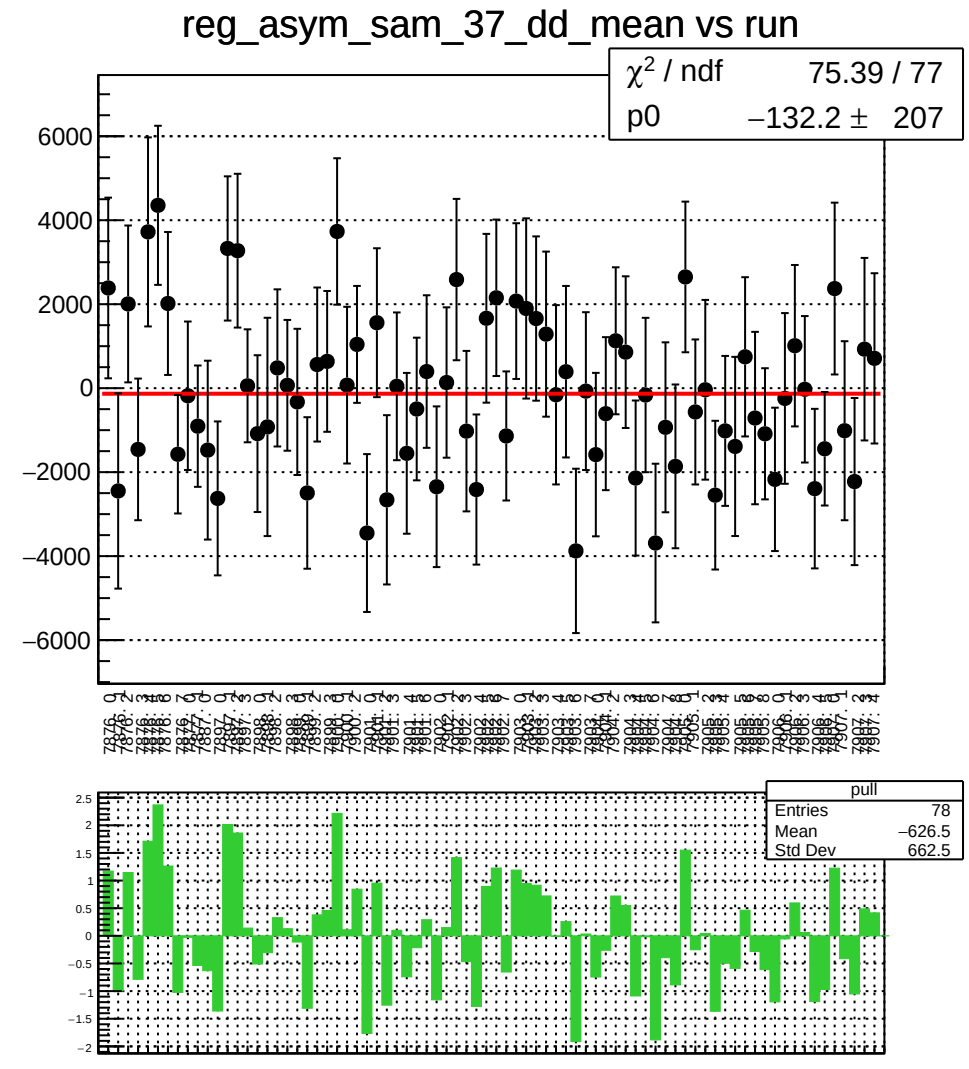

pull1D
Entries 78
Mean 0.01379
Std Dev 0.9229
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

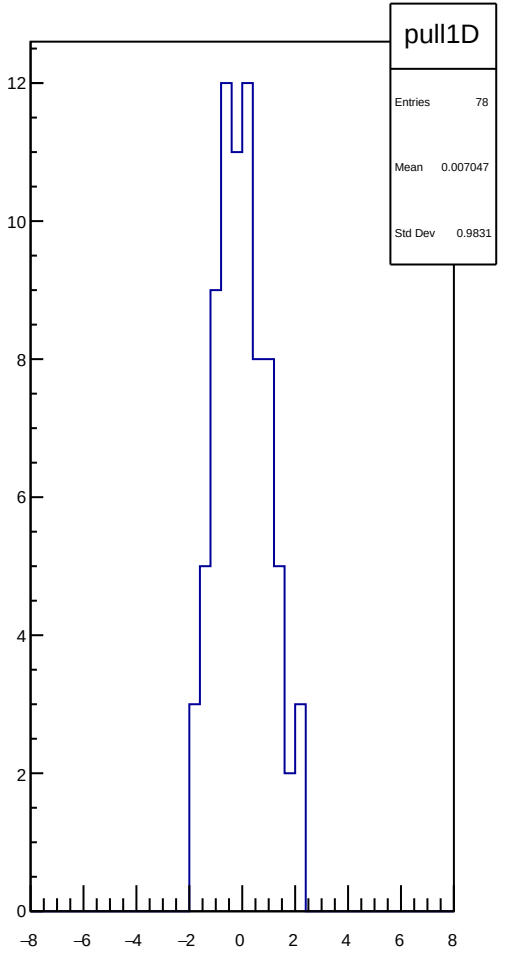

asym_sam_26_dd_correction_rms vs run
χ² / ndf 2.434e+04 / 77
p0 4339 ± 3.553
6000
5500
5000
4500
4000
3500

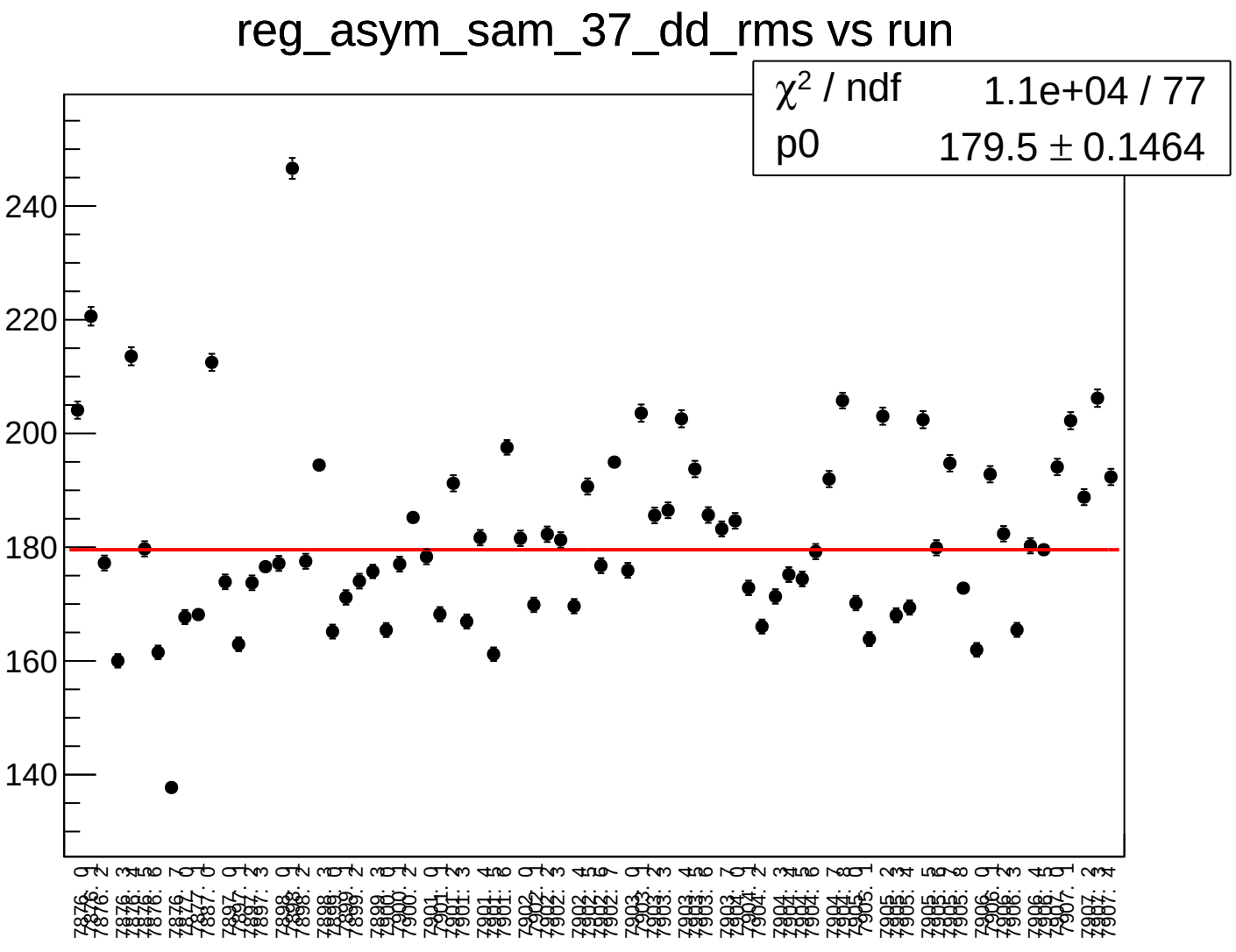

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 65.79 / 77
p0 6770 ± 5029
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −16.81
Std Dev 15.46
1.5
1
0.5
0
−0.5
−1
−1.5
−2

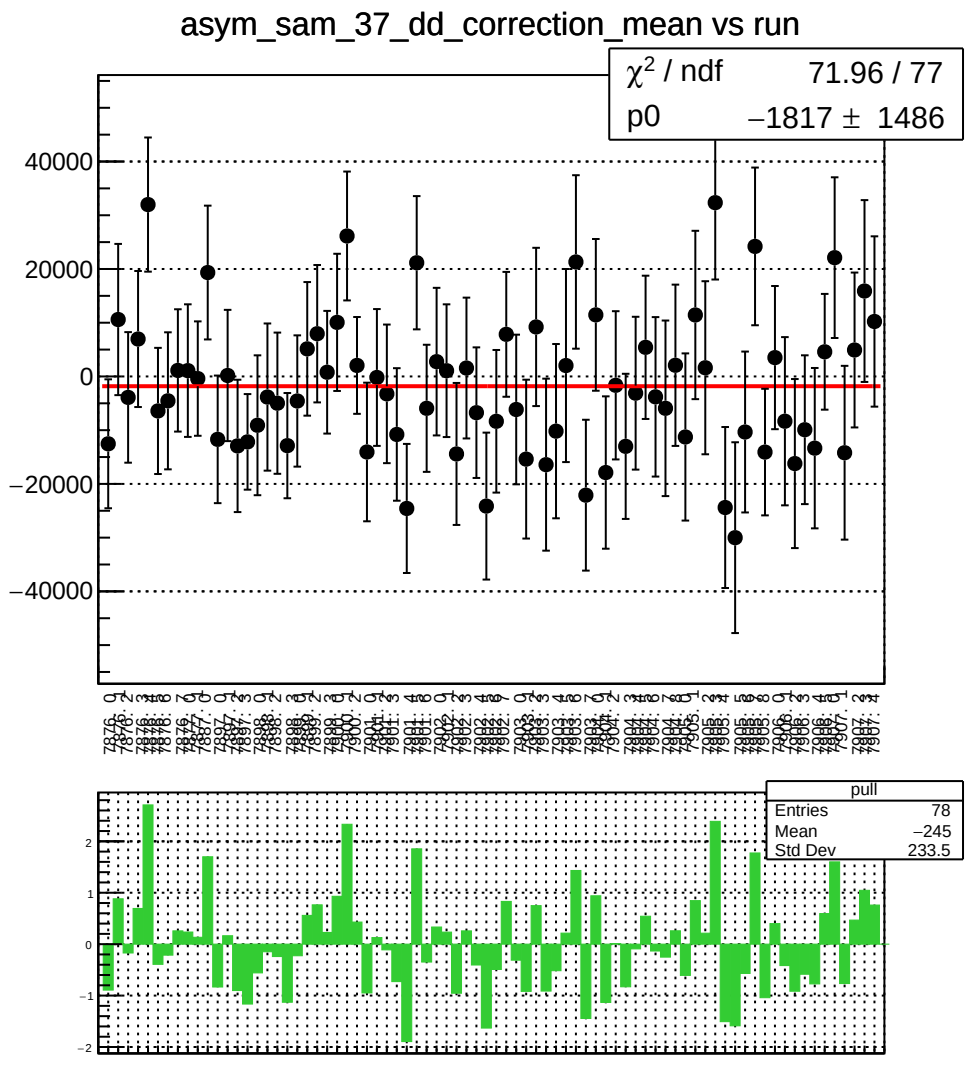

pull1D
Entries 78
Mean −0.01475
Std Dev 0.9183
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

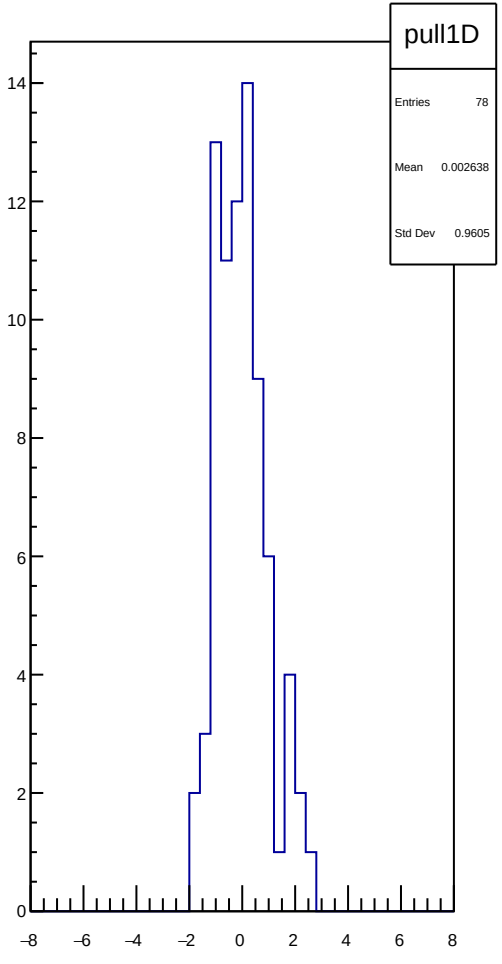

asym_sam_26_dd_rms vs run
χ² / ndf 2.427e+04 / 77
p0 4343 ± 3.556
6000
5500
5000
4500
4000
3500

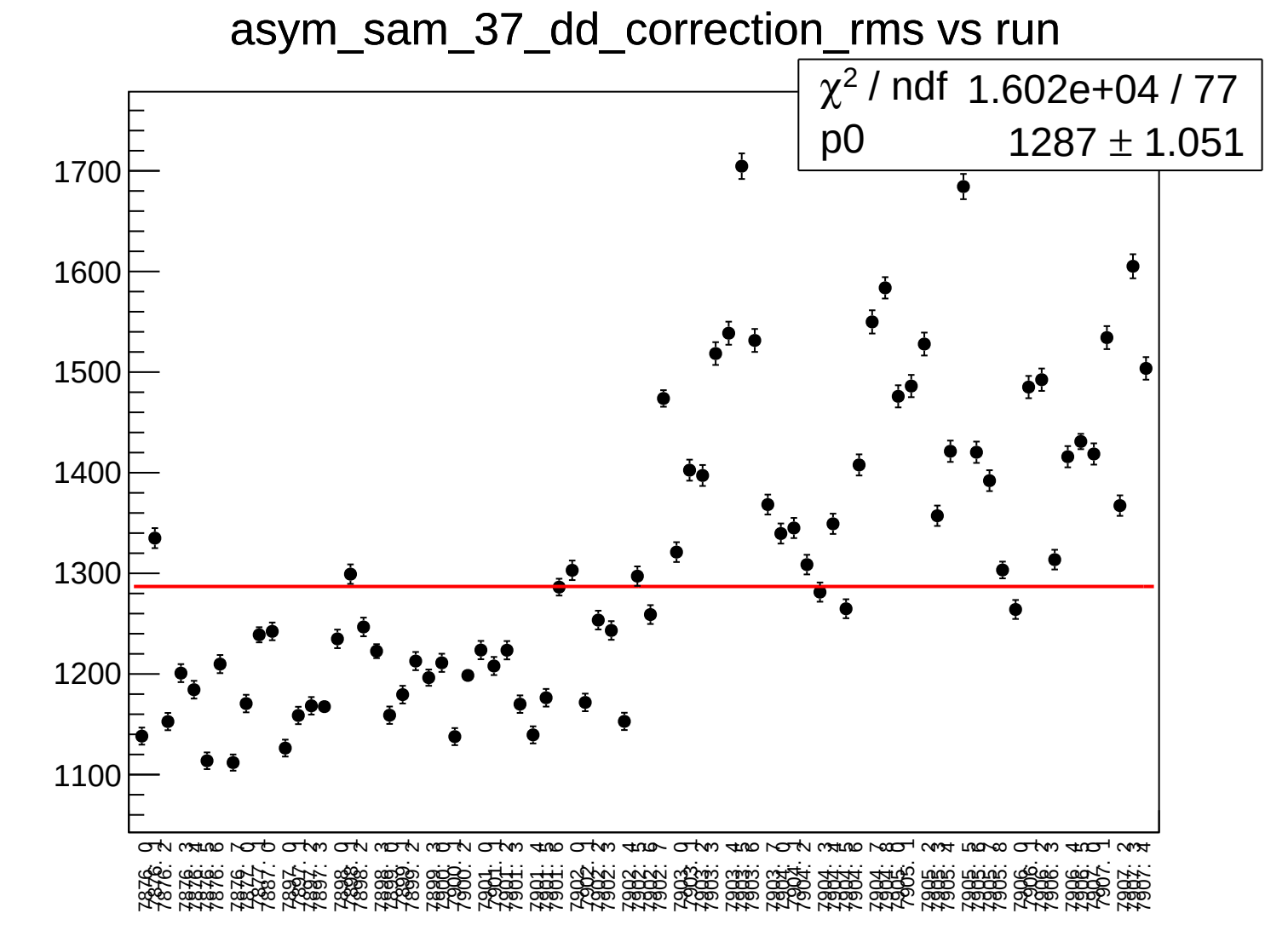

reg_asym_sam_37_dd_mean vs run
χ² / ndf 75.39 / 77
p0 −132.2 ± 207
pull
Entries 78
Mean −626.5
Std Dev 662.5

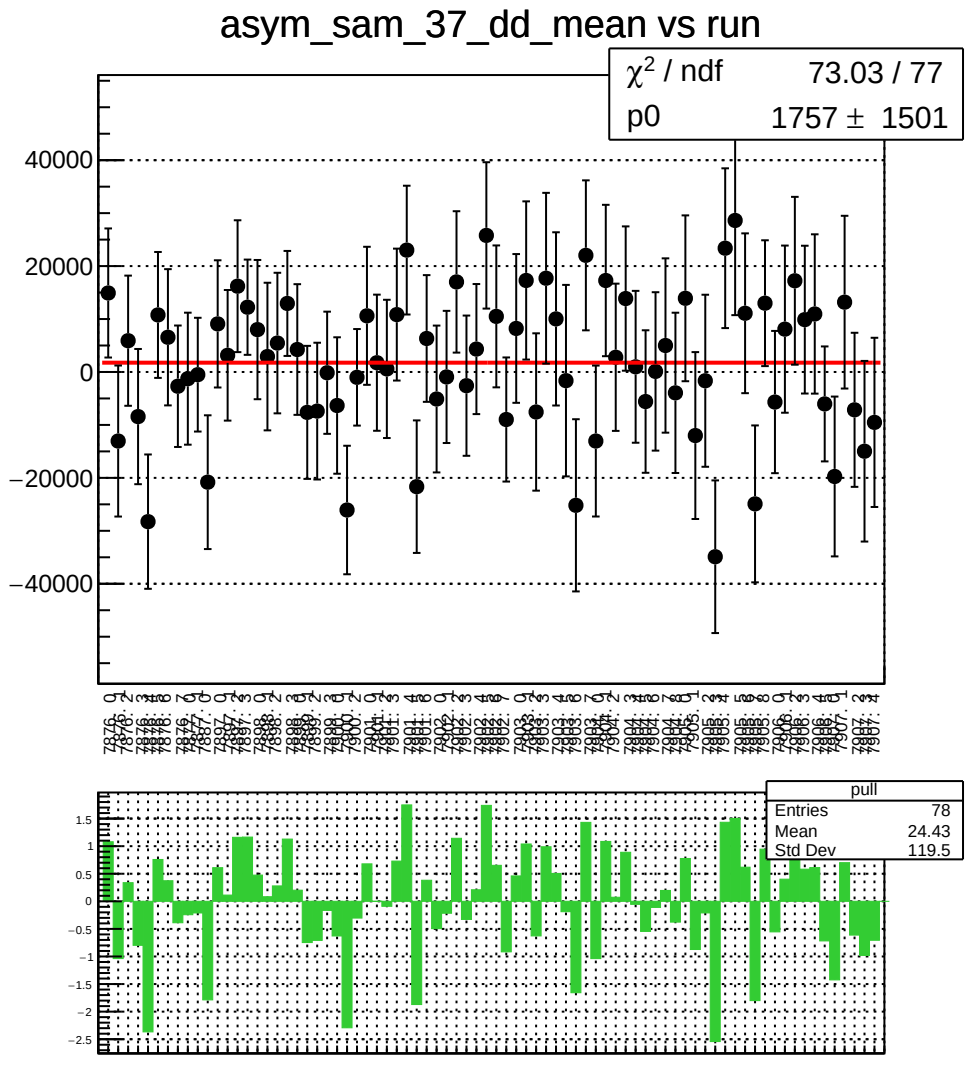

pull1D
Entries 78
Mean 0.007047
Std Dev 0.9831

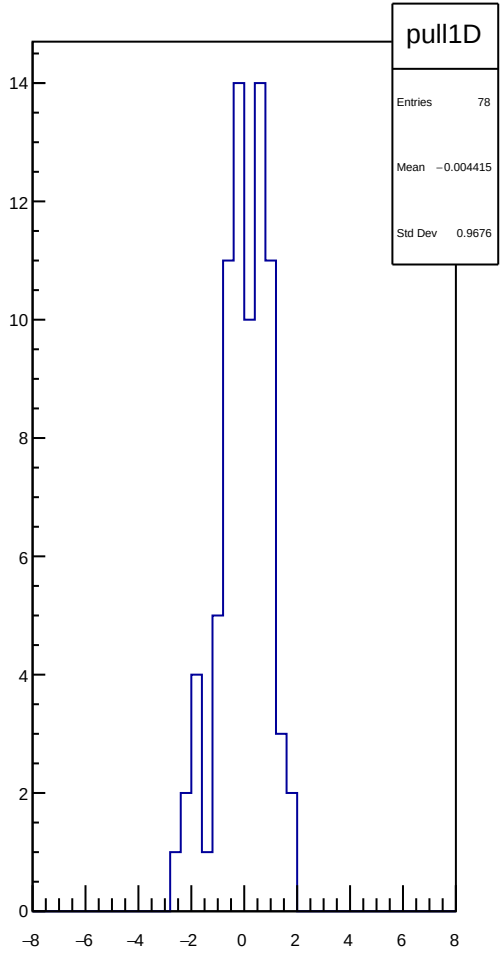

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.1e+04 / 77
p0 179.5 ± 0.1464
240
220
200
180
160
140

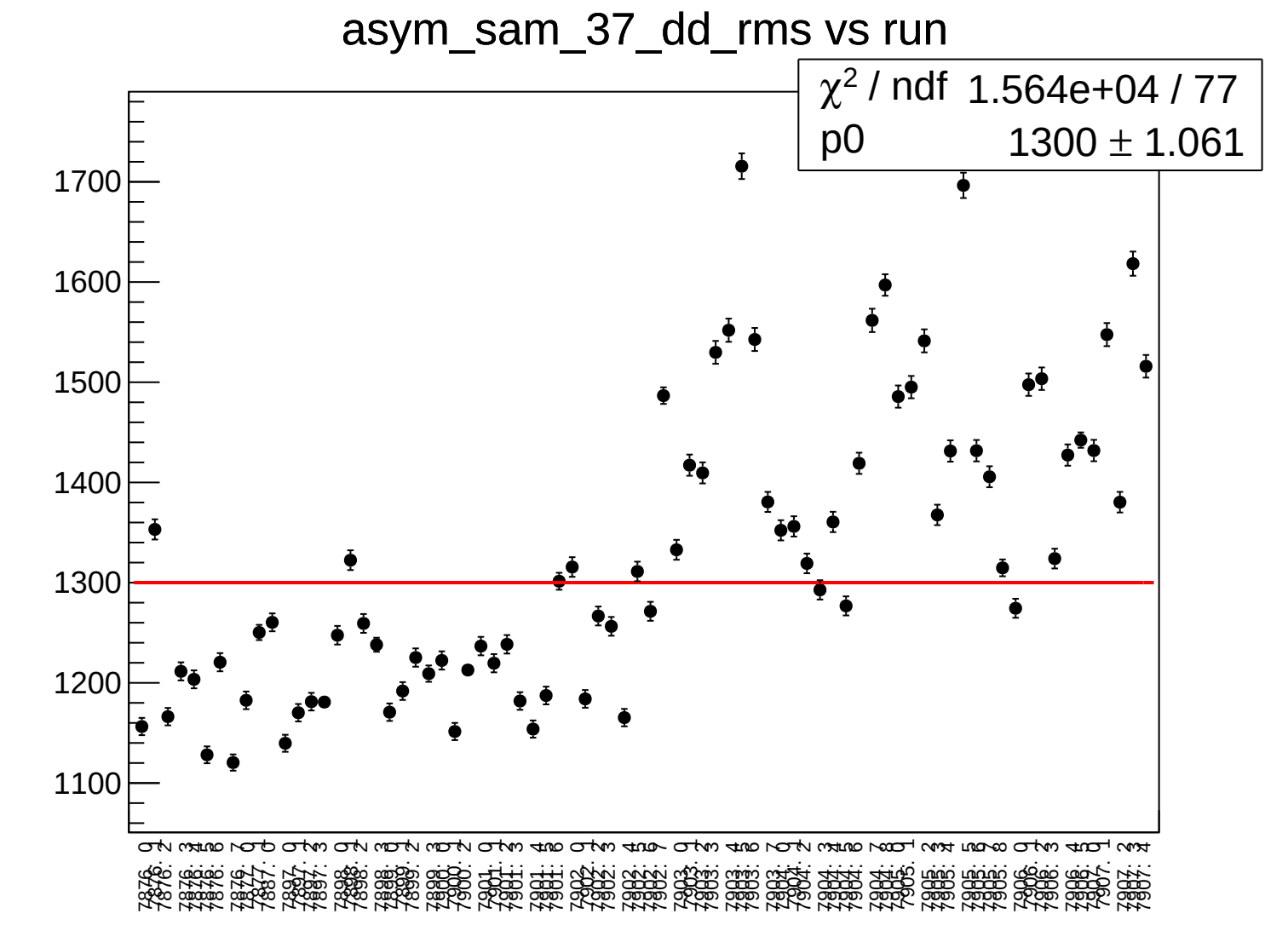

asym_sam_37_dd_correction_mean vs run
χ² / ndf 71.96 / 77
p0 −1817 ± 1486
40000
20000
0
−20000
−40000
pull
Entries 78
Mean −245
Std Dev 233.5
2
1
0
−1
−2

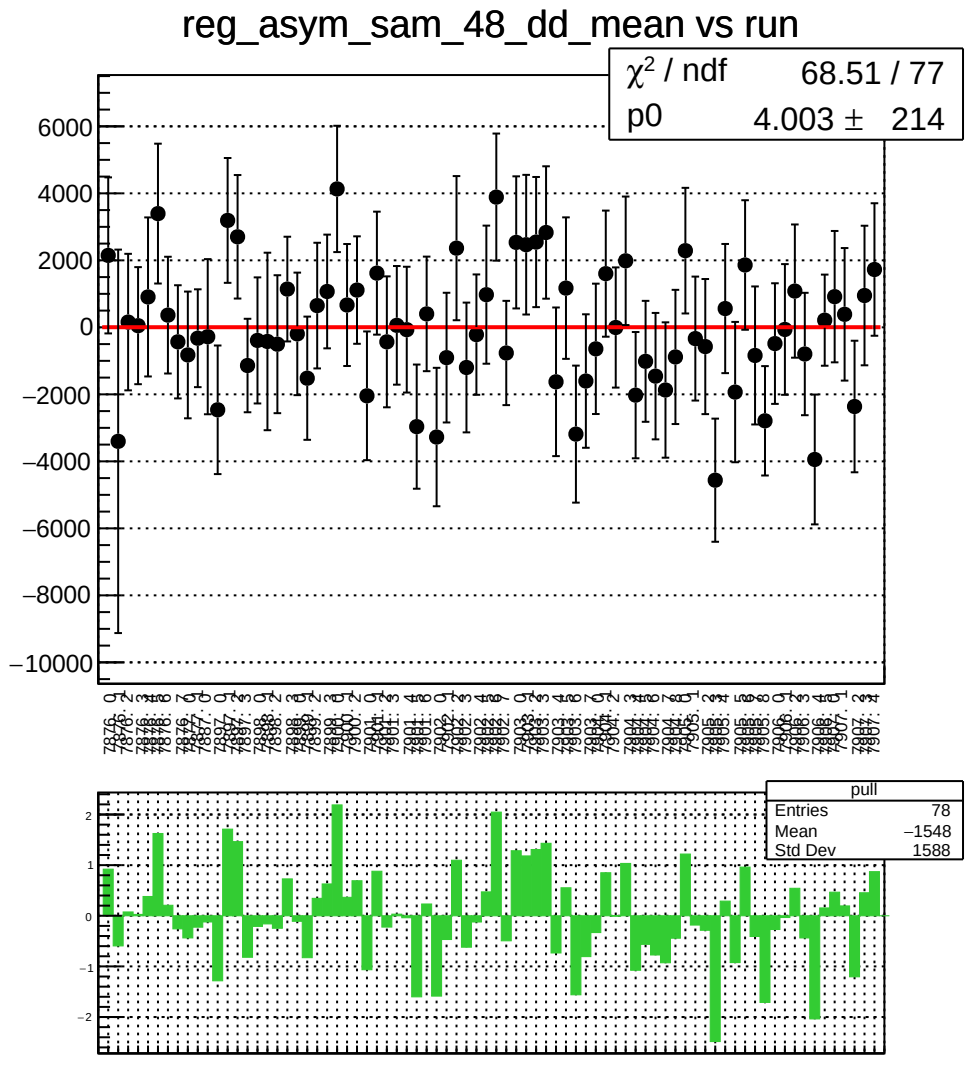

pull1D
Entries 78
Mean 0.002638
Std Dev 0.9605
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

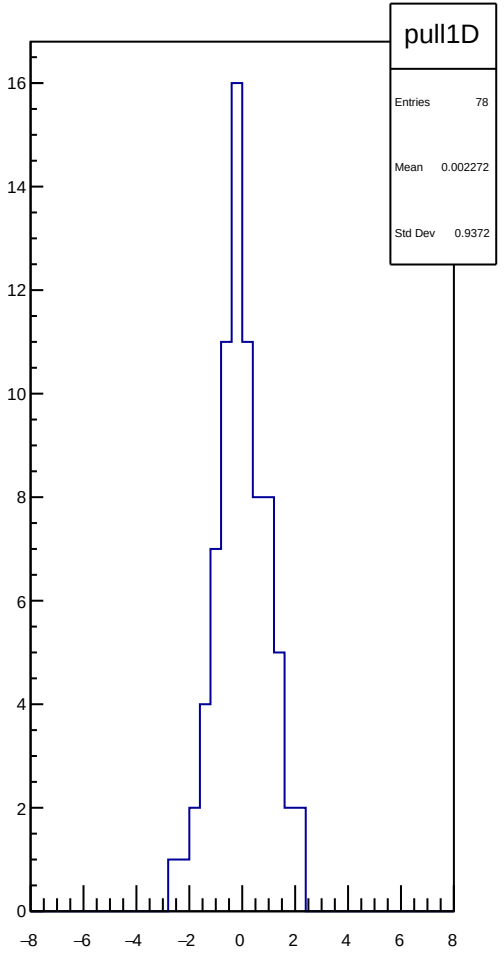

asym_sam_37_dd_correction_rms vs run
χ² / ndf 1.602e+04 / 77
p0 1287 ± 1.051
1700
1600
1500
1400
1300
1200
1100

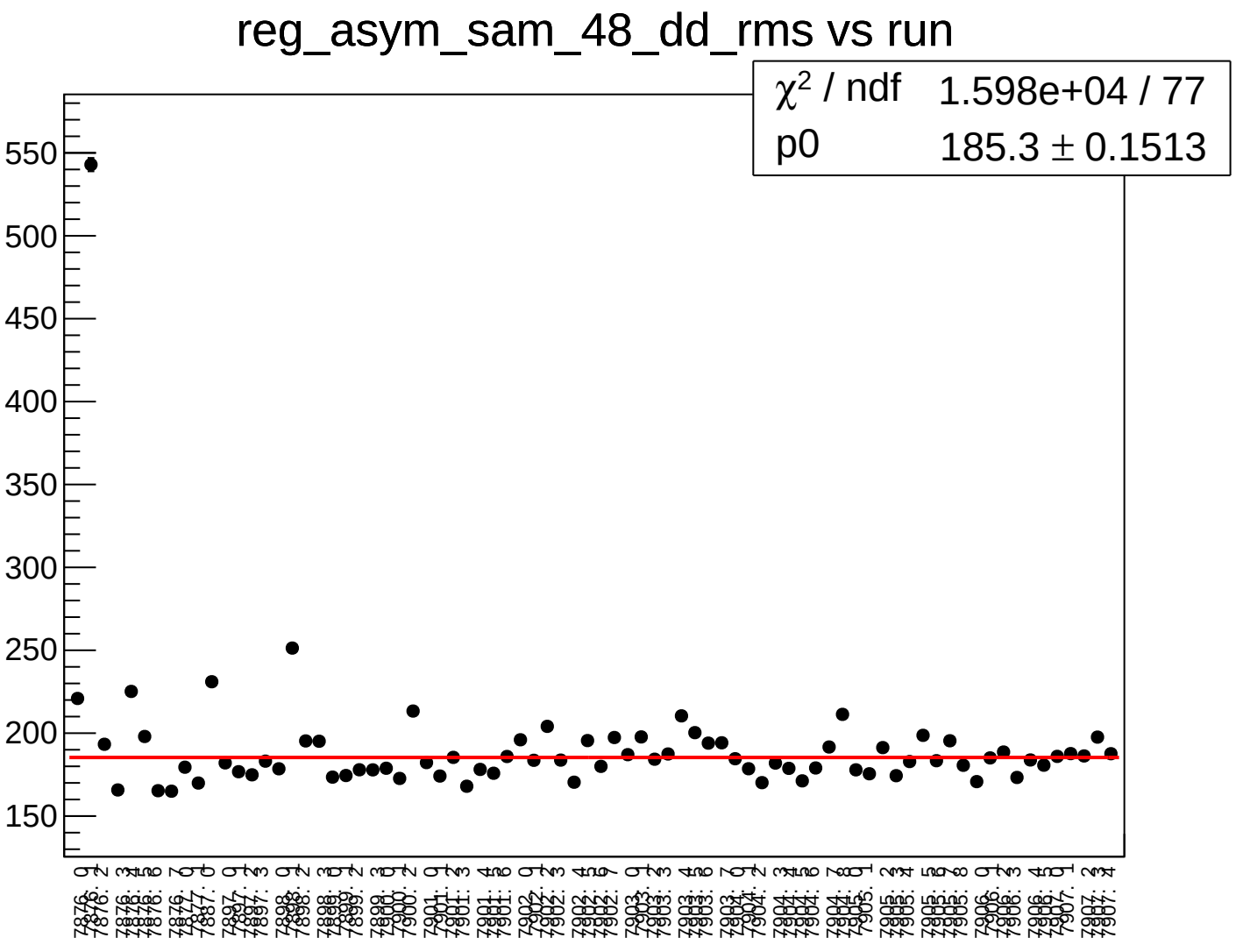

asym_sam_37_dd_mean vs run
χ² / ndf 73.03 / 77
p0 1757 ± 1501
40000
20000
0
−20000
−40000
pull
Entries 78
Mean 24.43
Std Dev 119.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

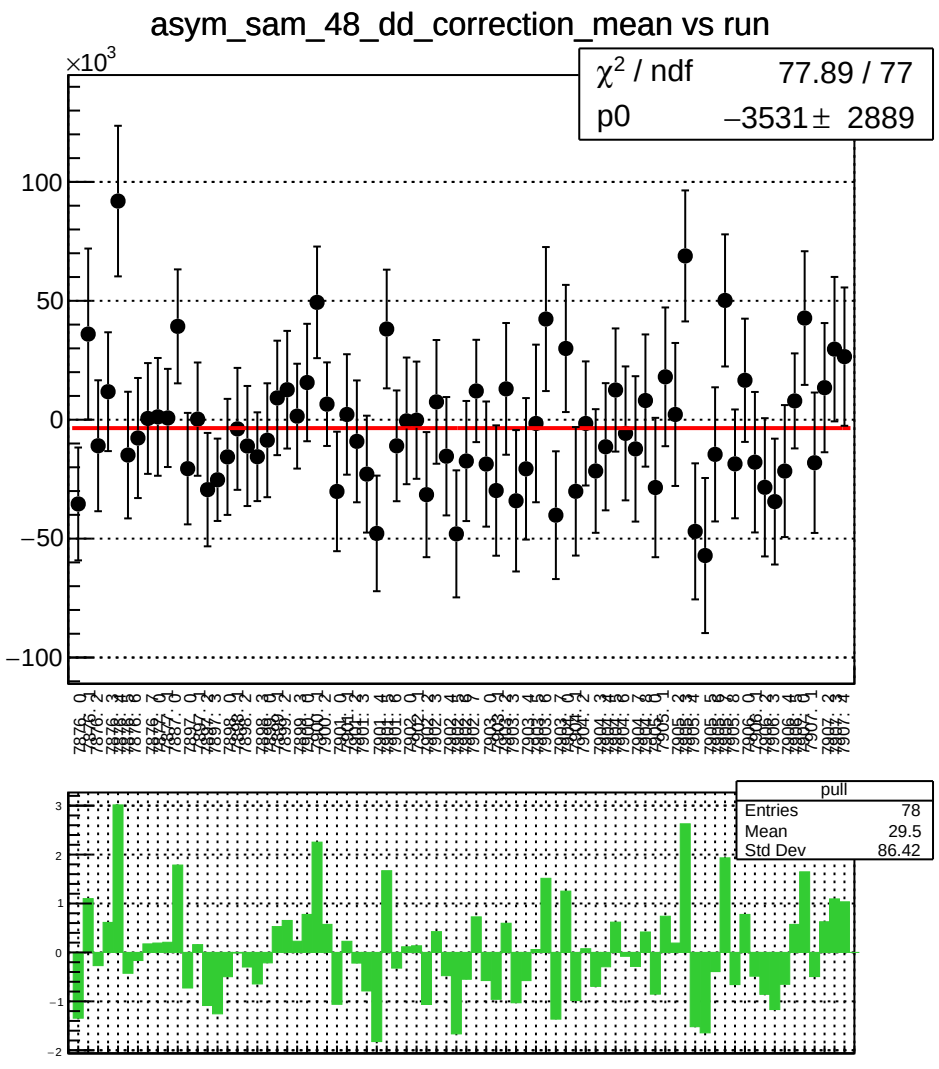

pull1D
Entries 78
Mean −0.004415
Std Dev 0.9676
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

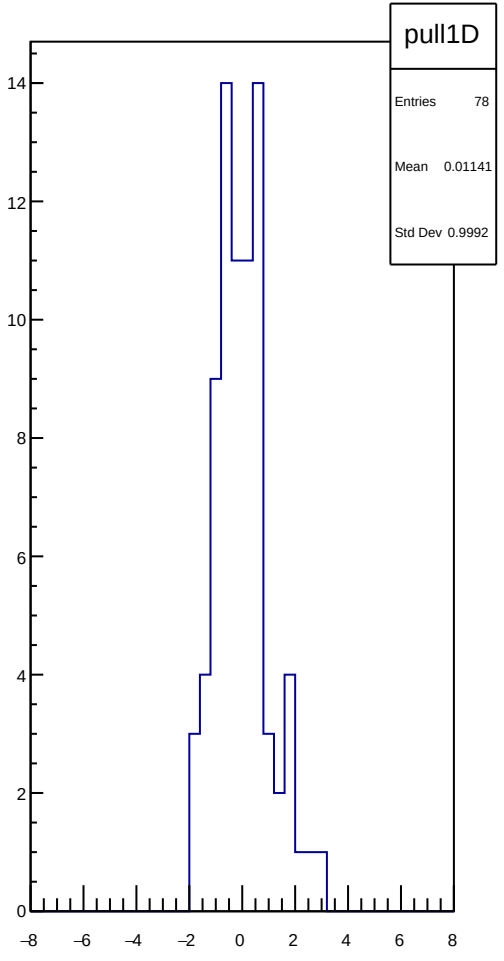

asym_sam_37_dd_rms vs run
χ² / ndf 1.564e+04 / 77
p0 1300 ± 1.061
1700
1600
1500
1400
1300
1200
1100

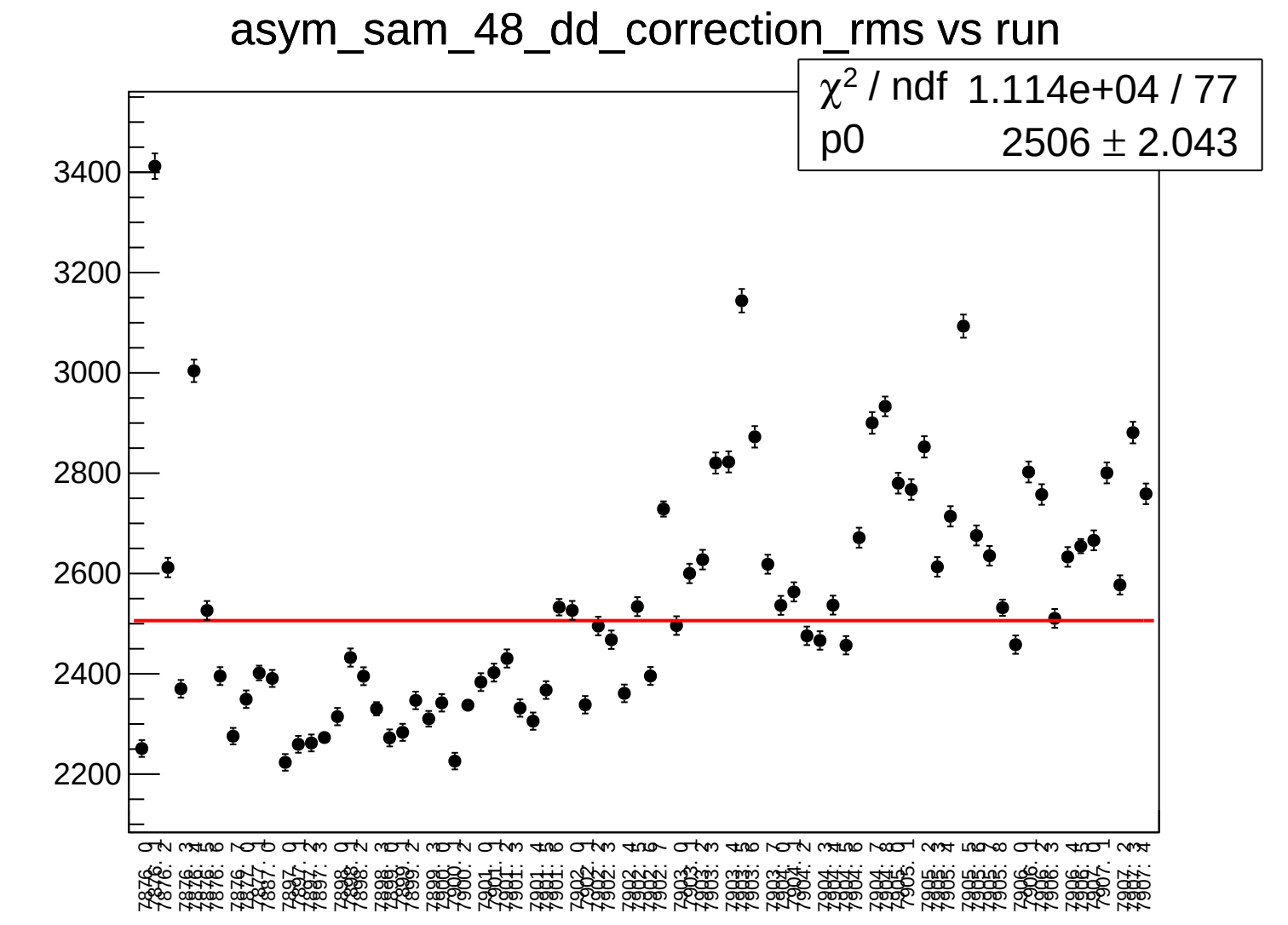

reg_asym_sam_48_dd_mean vs run
χ² / ndf 68.51 / 77
p0 4.003 ± 214
pull
Entries 78
Mean −1548
Std Dev 1588

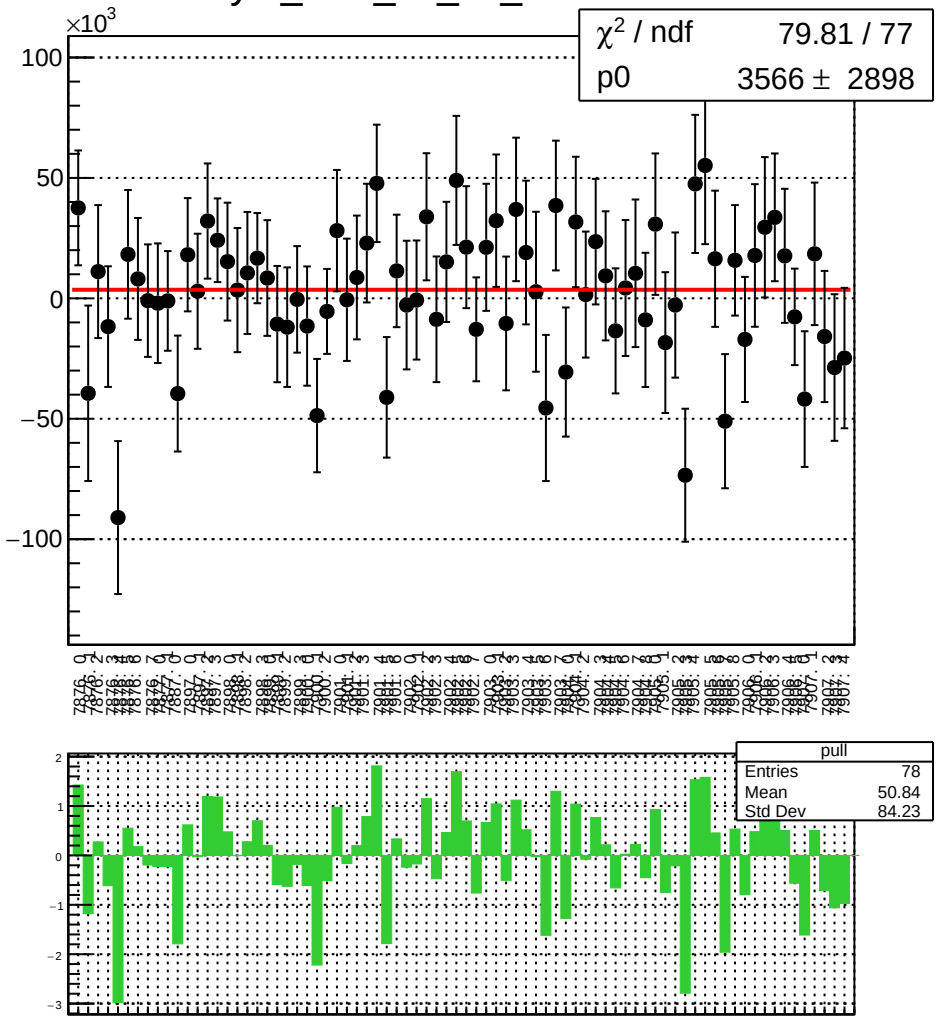

pull1D
Entries 78
Mean 0.002272
Std Dev 0.9372

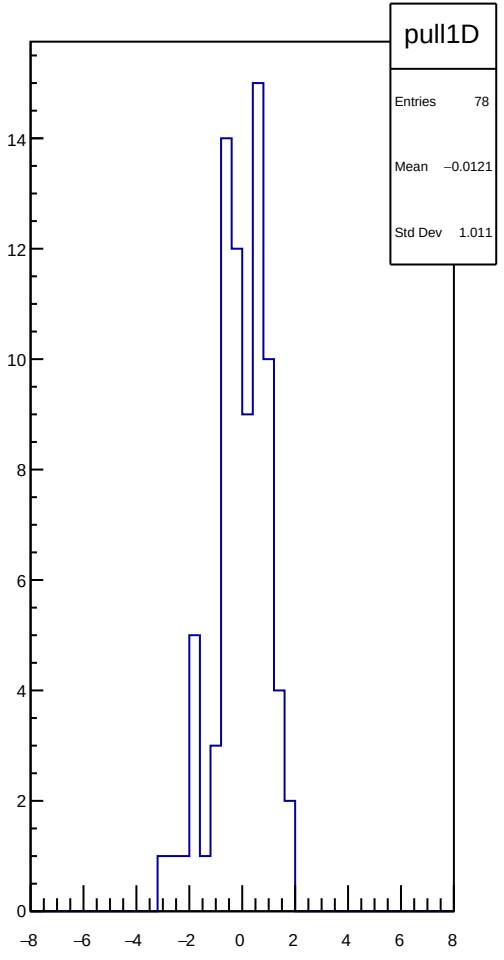

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1.598e+04 / 77
p0 185.3 ± 0.1513
550
500
450
400
350
300
250
200
150

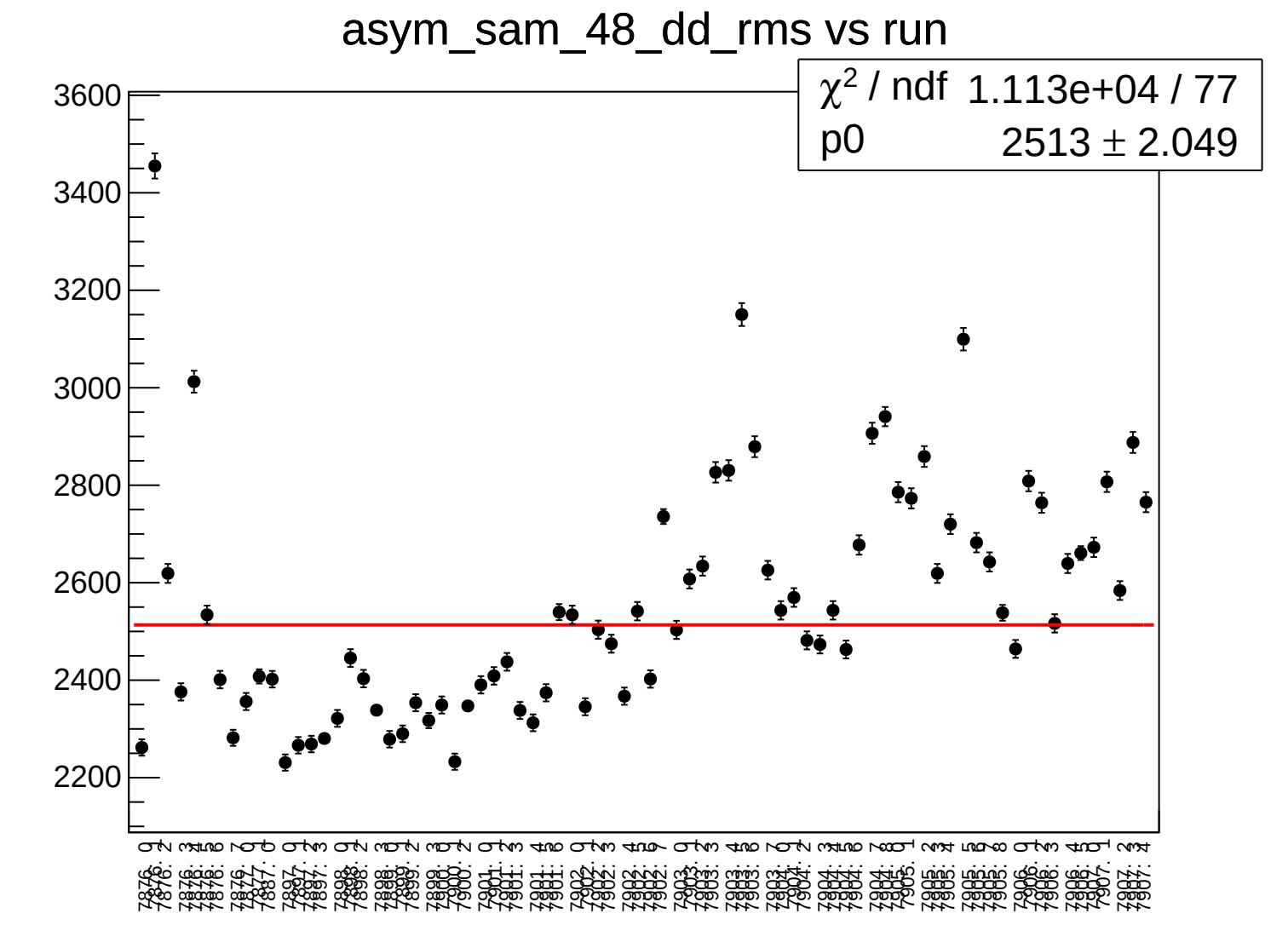

asym_sam_48_dd_correction_mean vs run
×10^3
χ^2 / ndf 77.89 / 77
p0 −3531 ± 2889
100
50
0
−50
−100
pull
Entries 78
Mean 29.5
Std Dev 86.42
3
2
1
0
−1
−2

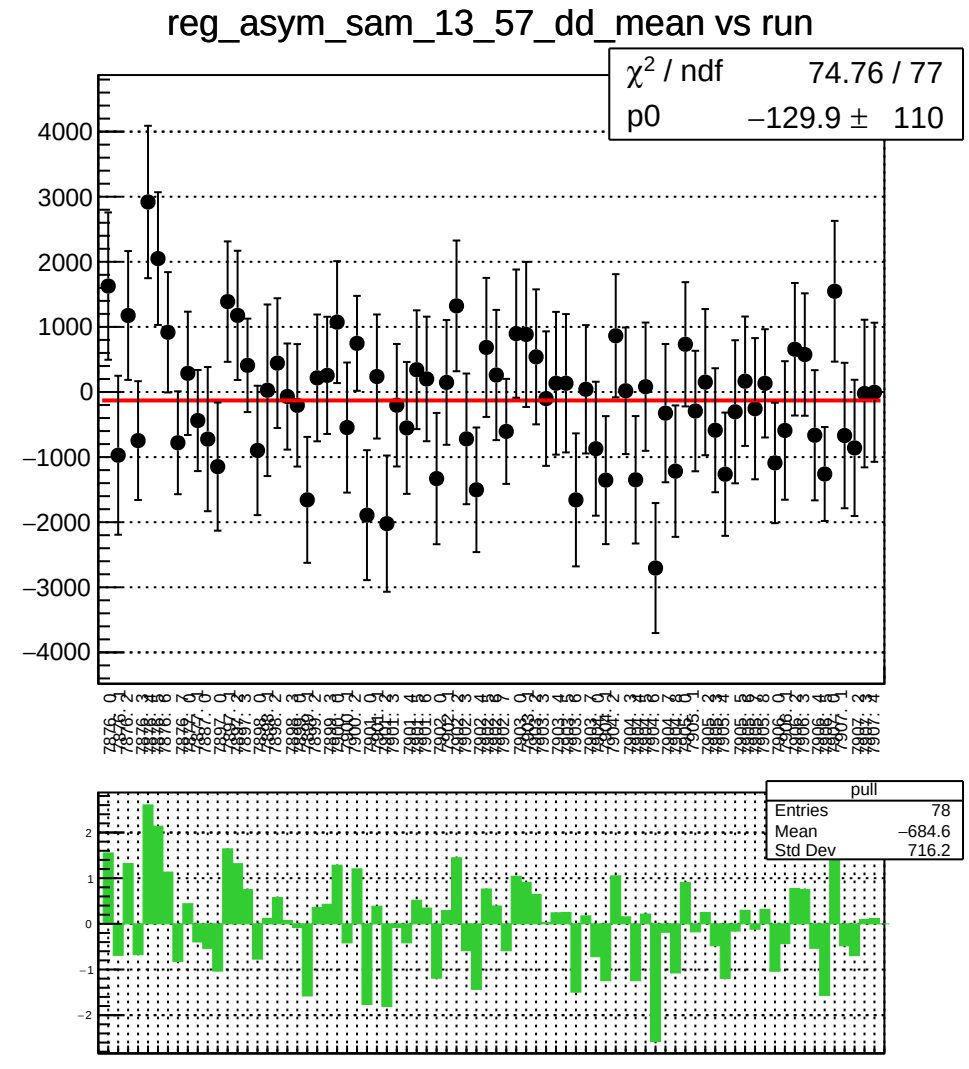

pull1D
Entries 78
Mean 0.01141
Std Dev 0.9992
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

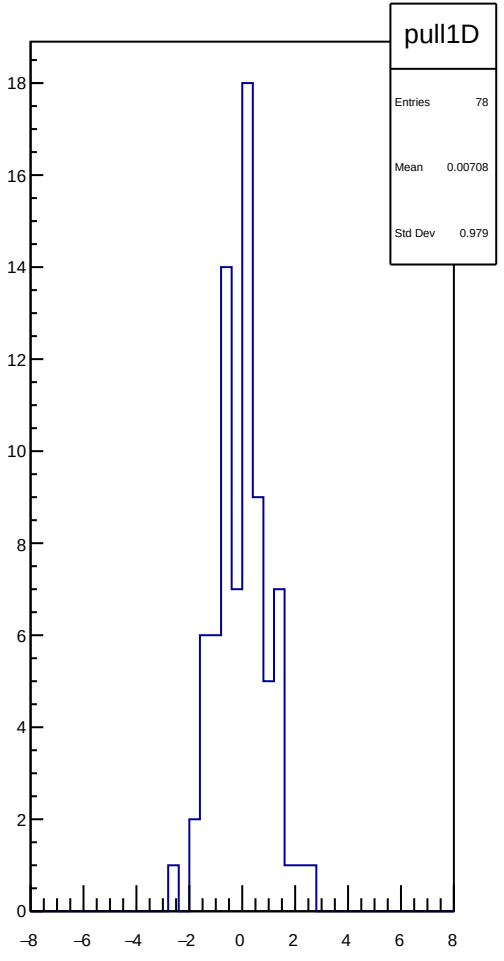

asym_sam_48_dd_correction_rms vs run
χ² / ndf 1.114e+04 / 77
p0 2506 ± 2.043
3400
3200
3000
2800
2600
2400
2200

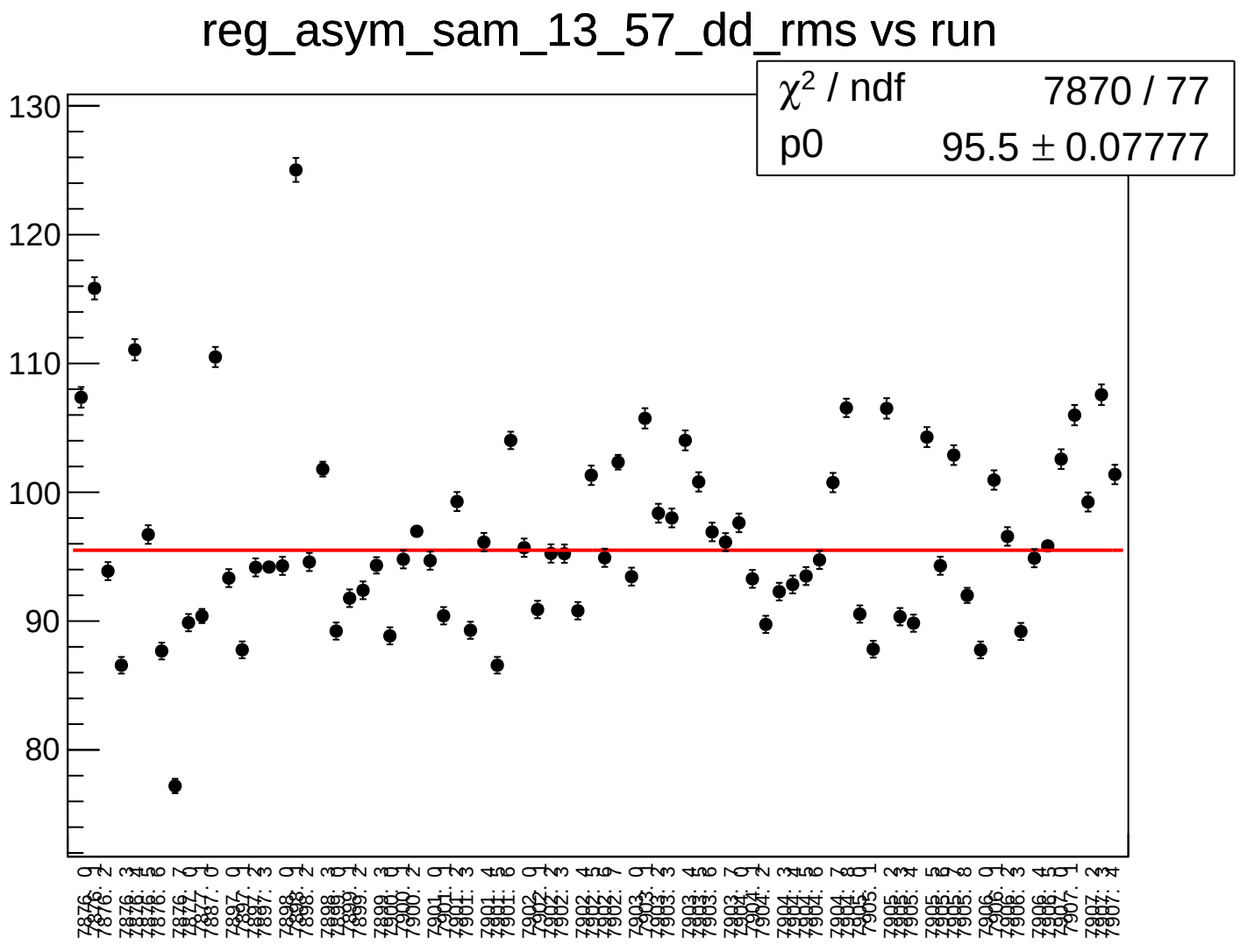

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 79.81 / 77
p0 3566 ± 2898
pull
Entries 78
Mean 50.84
Std Dev 84.23

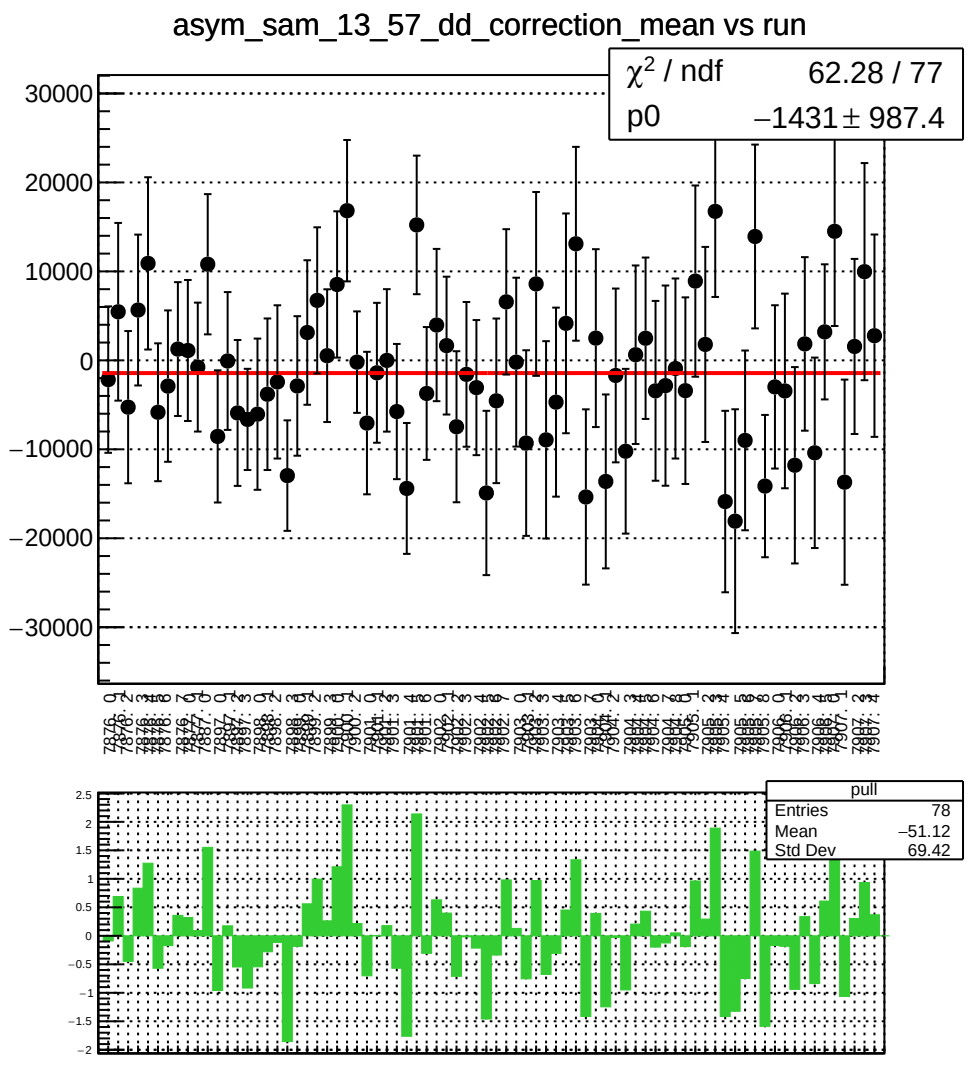

pull1D
Entries 78
Mean −0.0121
Std Dev 1.011

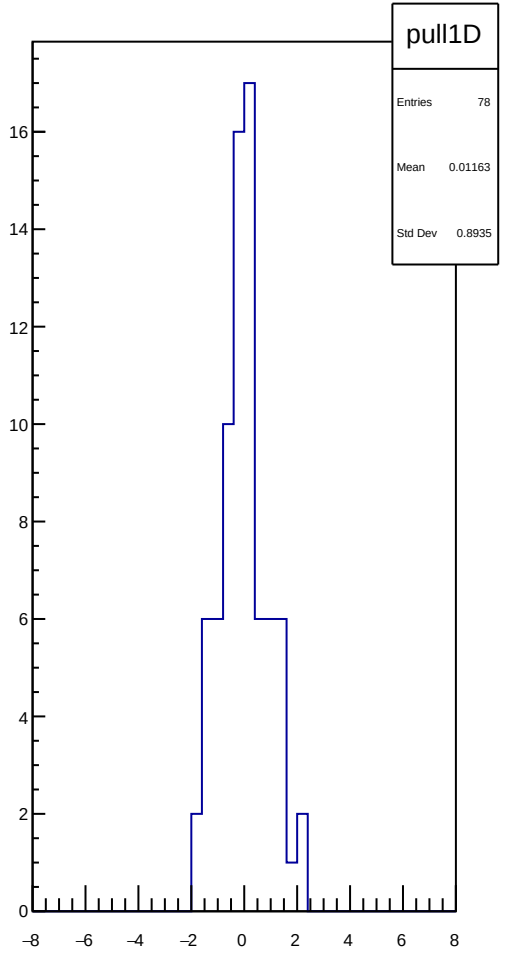

asym_sam_48_dd_rms vs run
χ² / ndf 1.113e+04 / 77
p0 2513 ± 2.049
3600
3400
3200
3000
2800
2600
2400
2200

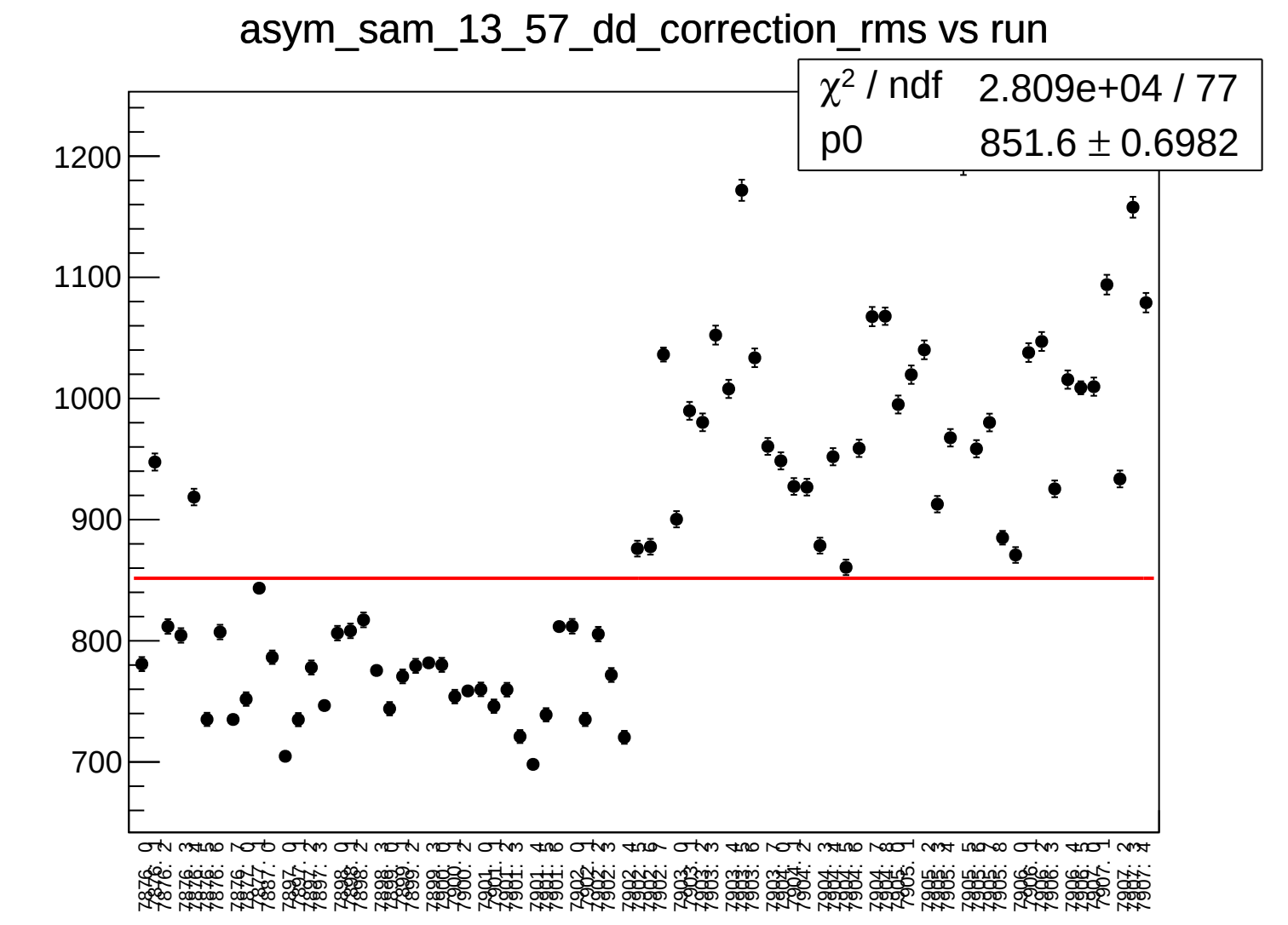

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 74.76 / 77
p0 −129.9 ± 110
pull
Entries 78
Mean −684.6
Std Dev 716.2

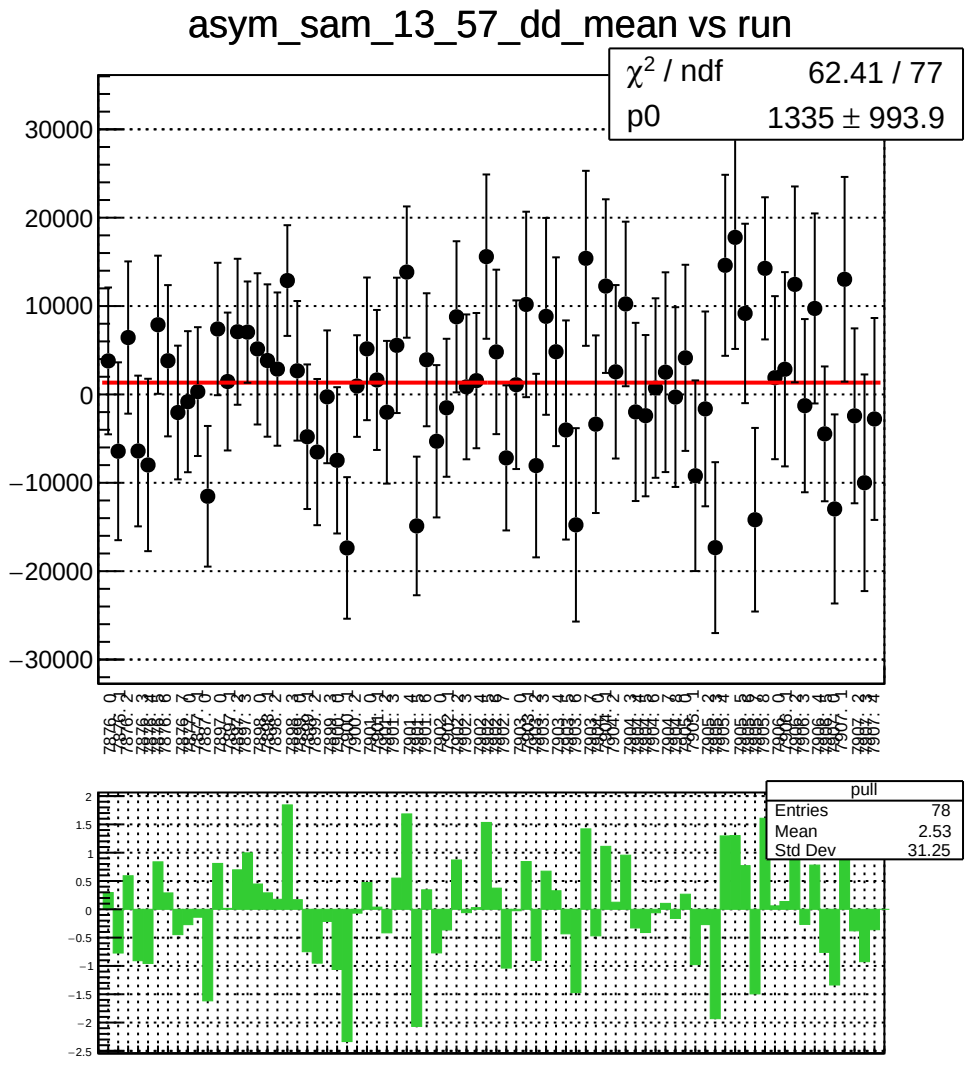

pull1D
Entries 78
Mean 0.00708
Std Dev 0.979

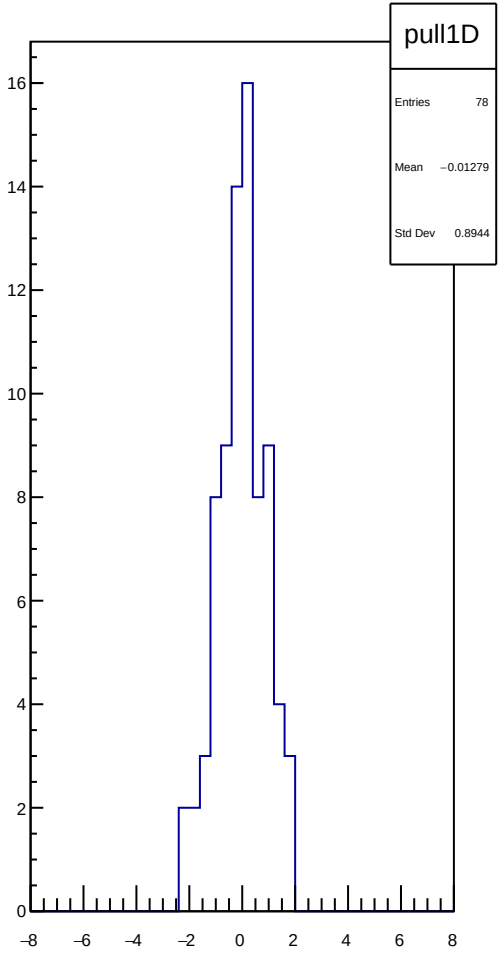

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 7870 / 77
p0 95.5 ± 0.07777
130
120
110
100
90
80

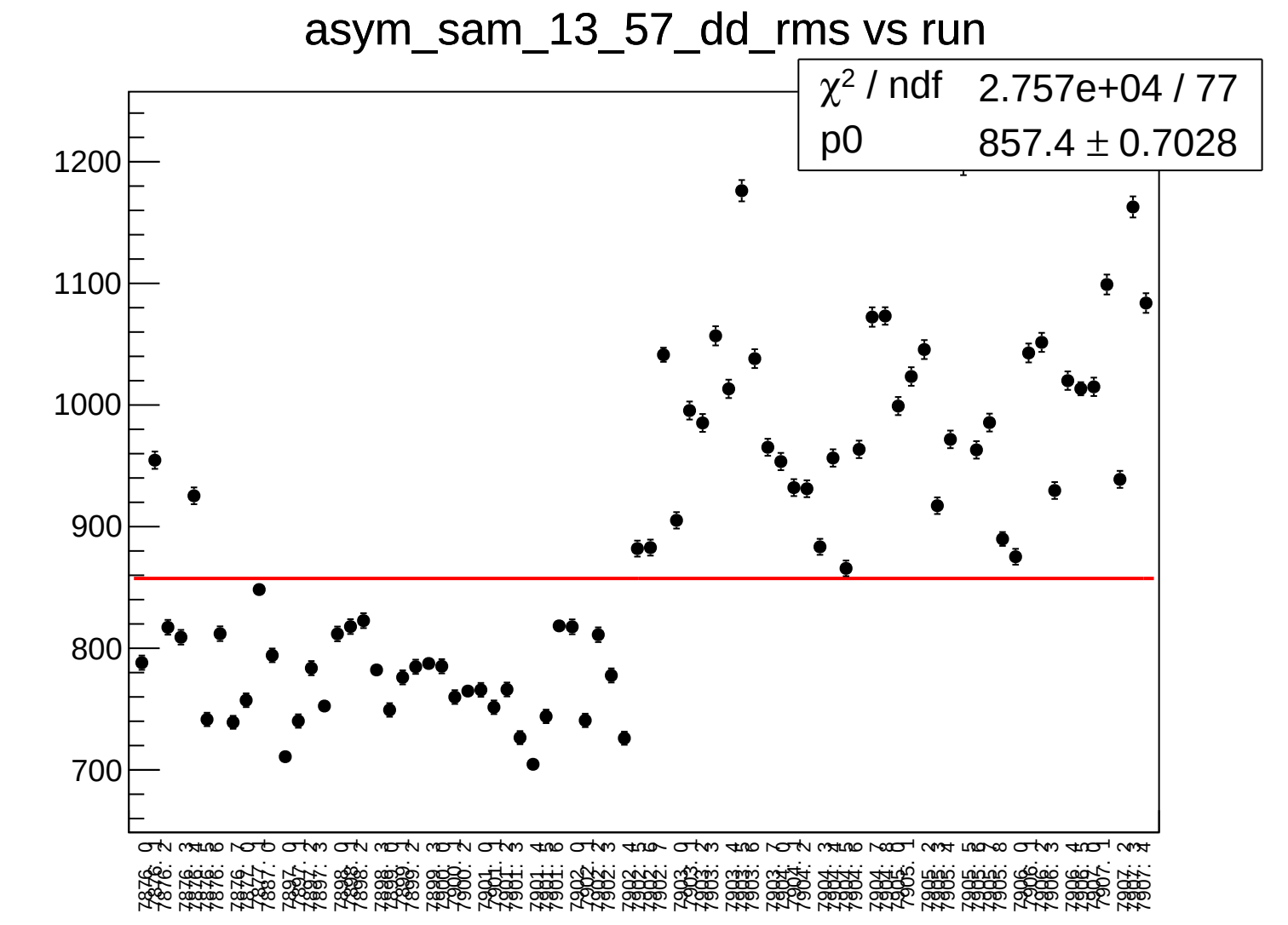

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 62.28 / 77
p0 −1431 ± 987.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean −51.12
Std Dev 69.42
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

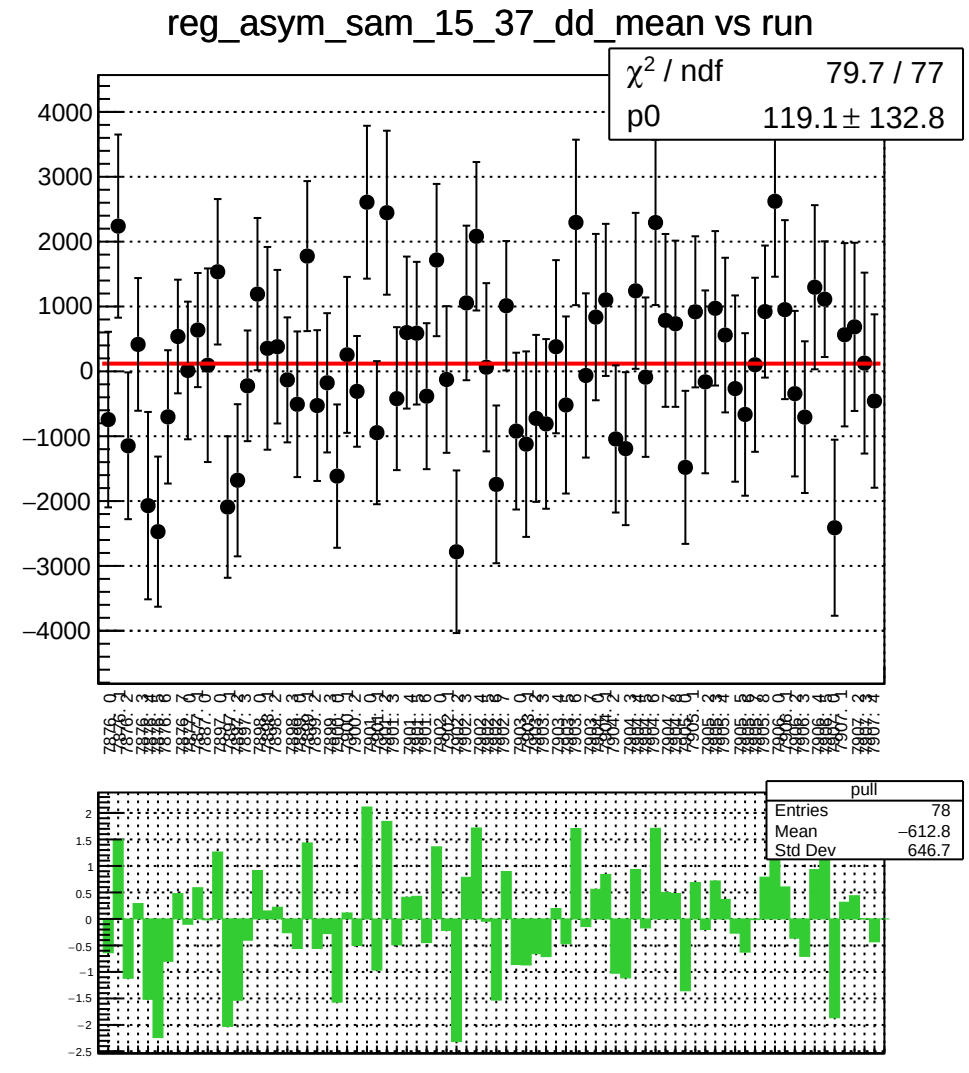

pull1D
Entries 78
Mean 0.01163
Std Dev 0.8935
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

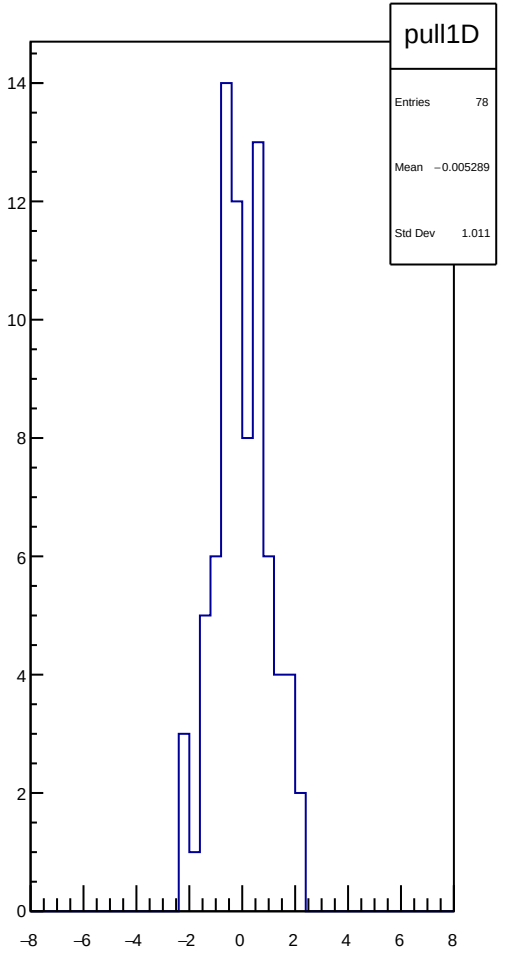

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 2.809e+04 / 77
p0 851.6 ± 0.6982
1200
1100
1000
900
800
700

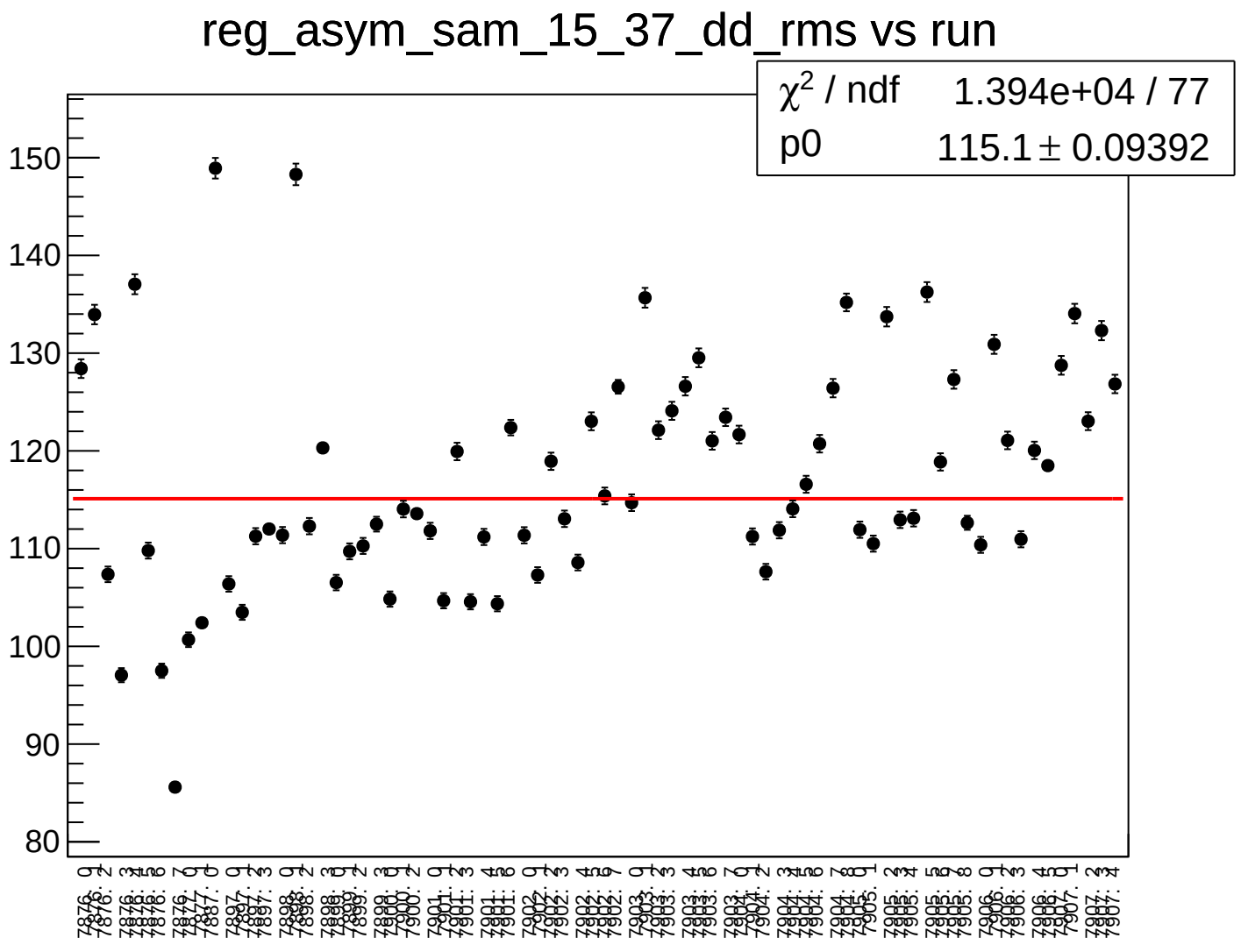

asym_sam_13_57_dd_mean vs run
χ² / ndf 62.41 / 77
p0 1335 ± 993.9
pull
Entries 78
Mean 2.53
Std Dev 31.25

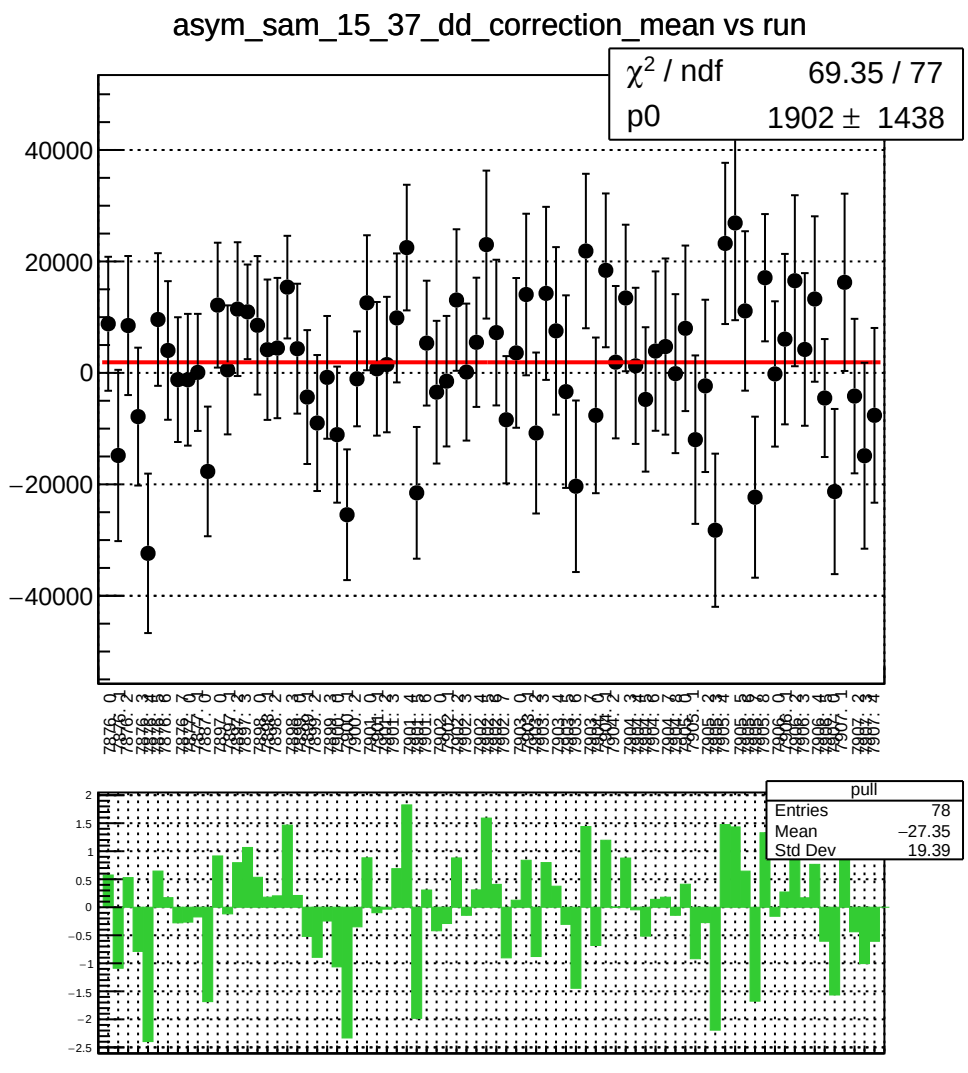

pull1D
Entries 78
Mean −0.01279
Std Dev 0.8944

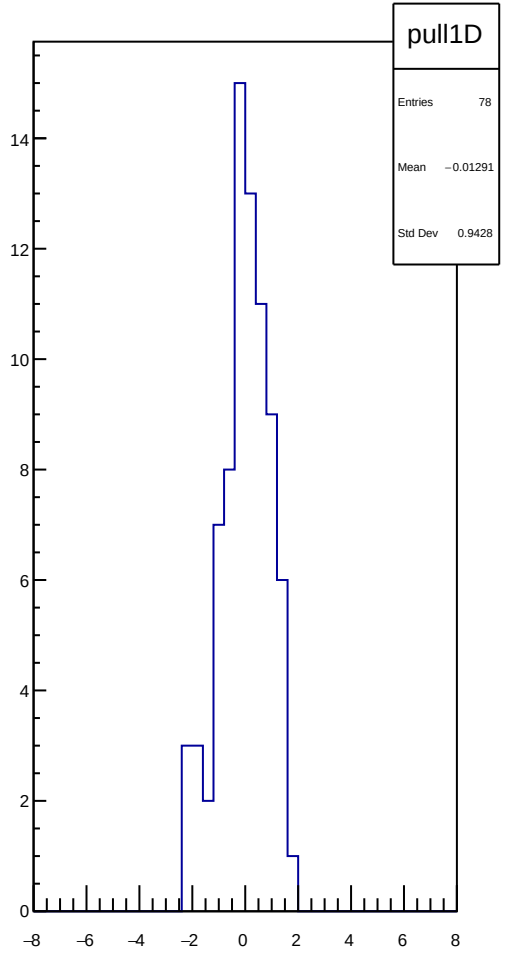

asym_sam_13_57_dd_rms vs run
χ² / ndf 2.757e+04 / 77
p0 857.4 ± 0.7028
1200
1100
1000
900
800
700

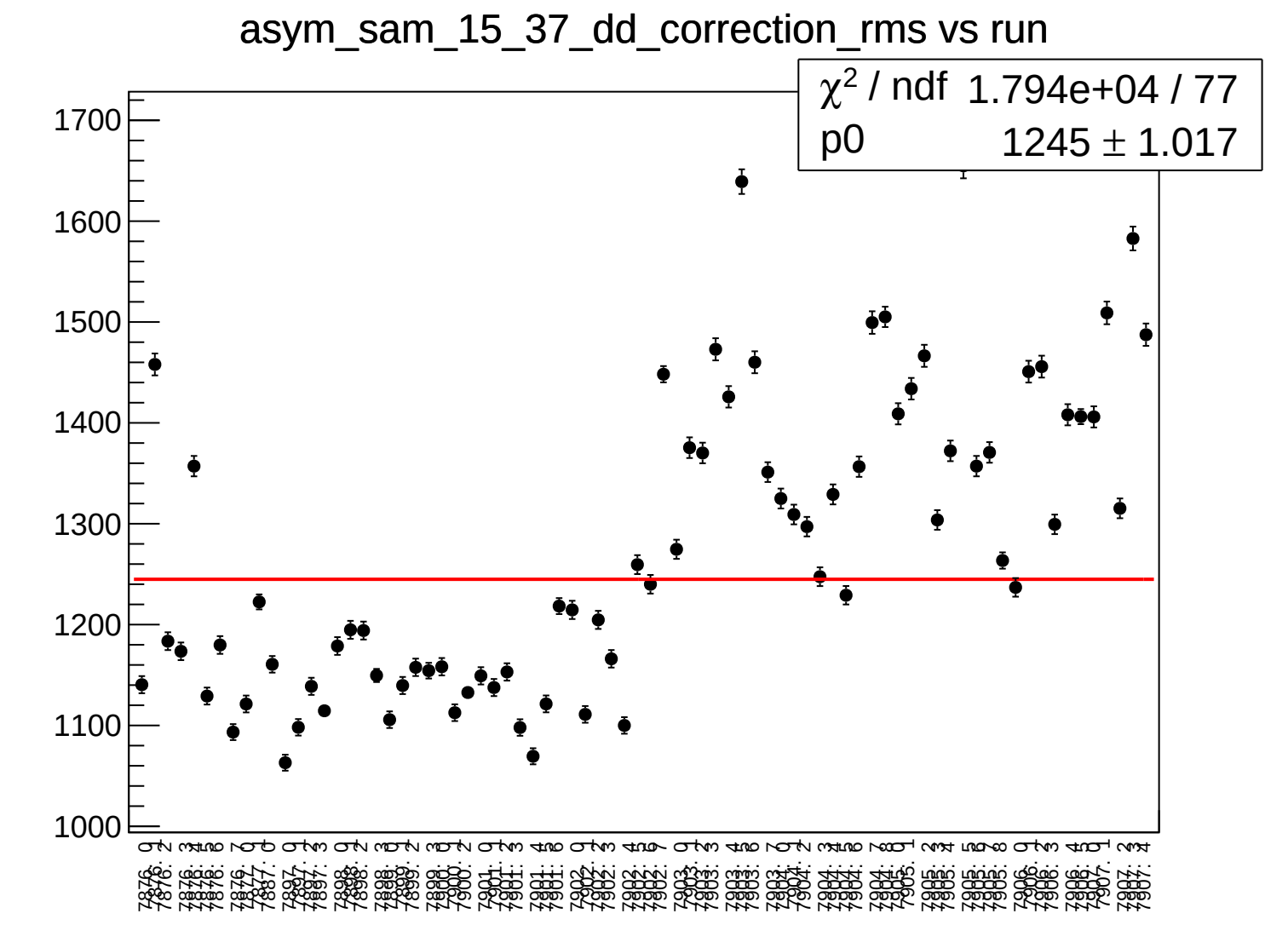

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 79.7 / 77
p0 119.1 ± 132.8
pull
Entries 78
Mean −612.8
Std Dev 646.7

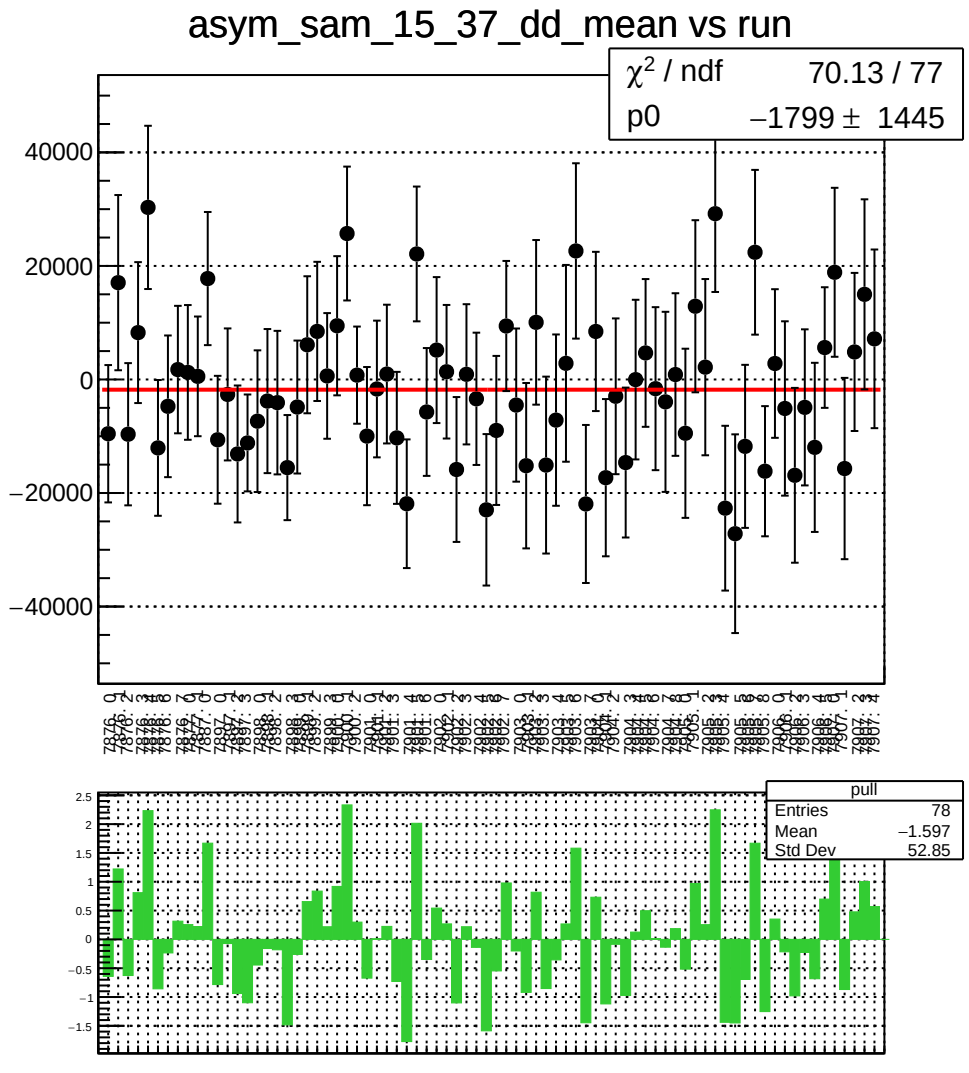

pull1D
Entries 78
Mean −0.005289
Std Dev 1.011

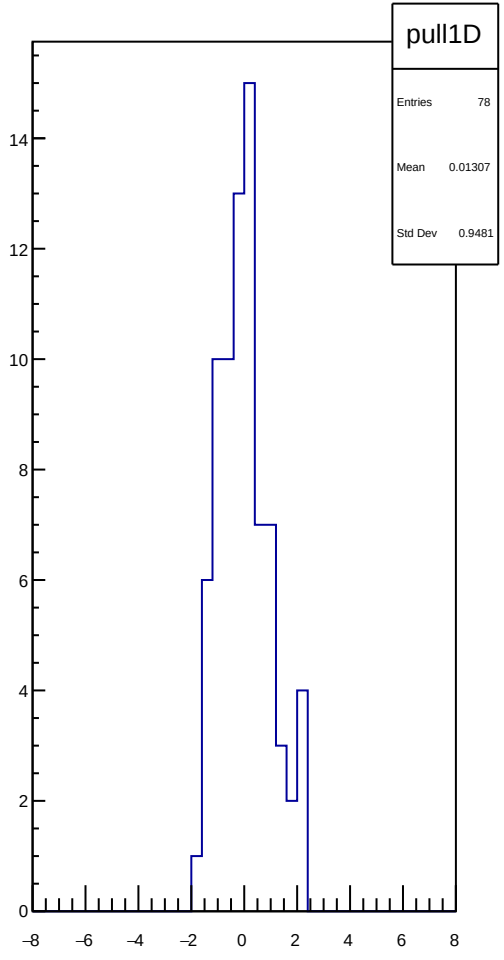

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.394e+04 / 77
p0 115.1 ± 0.09392
150
140
130
120
110
100
90
80

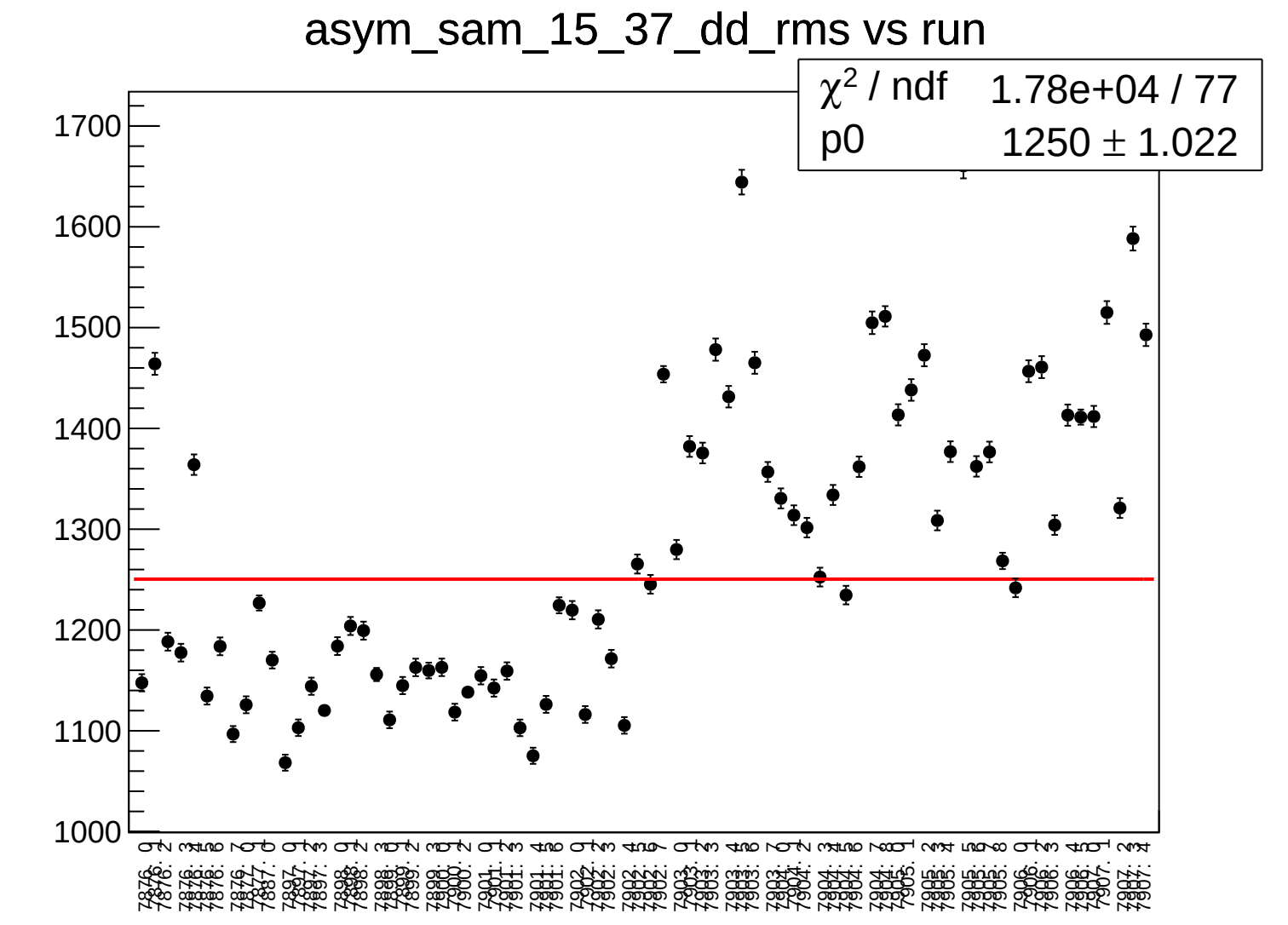

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 69.35 / 77
p0 1902 ± 1438
40000
20000
0
−20000
−40000
pull
Entries 78
Mean −27.35
Std Dev 19.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

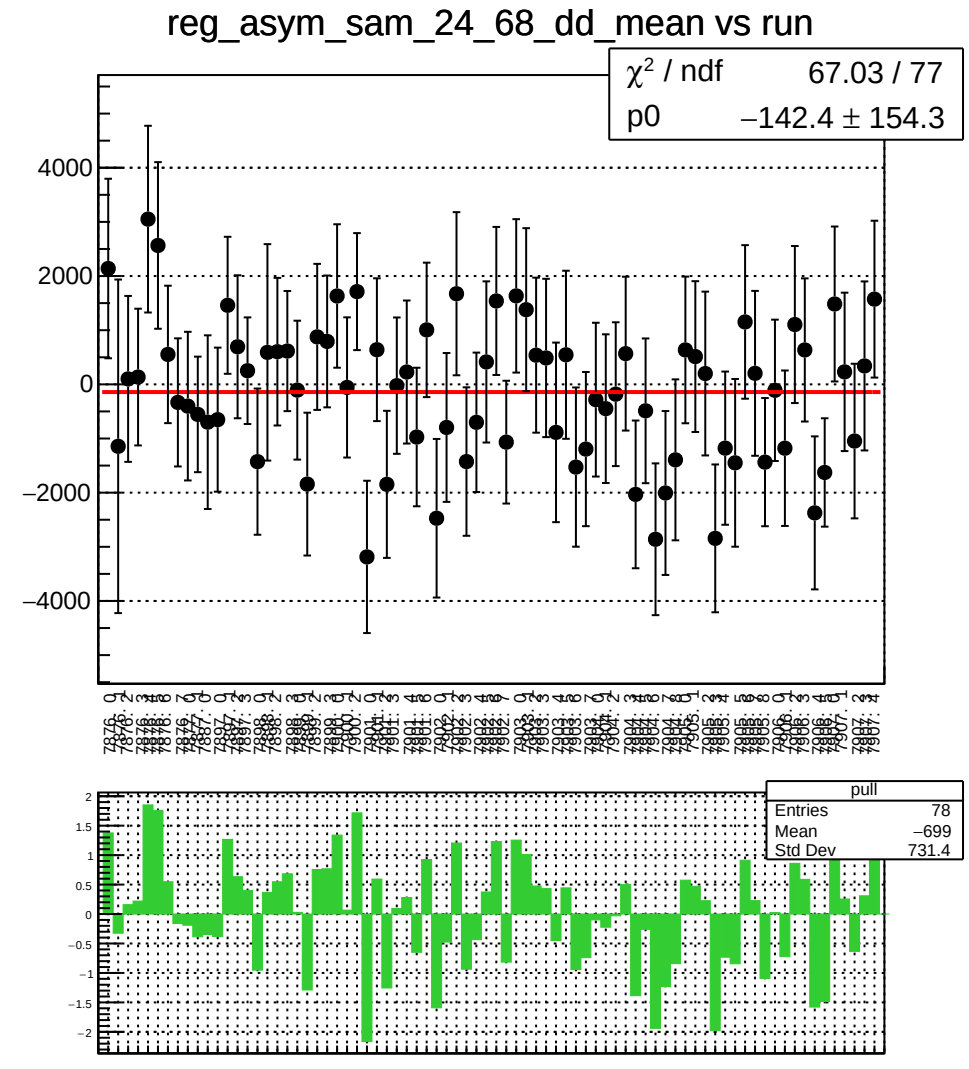

pull1D
Entries 78
Mean −0.01291
Std Dev 0.9428
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

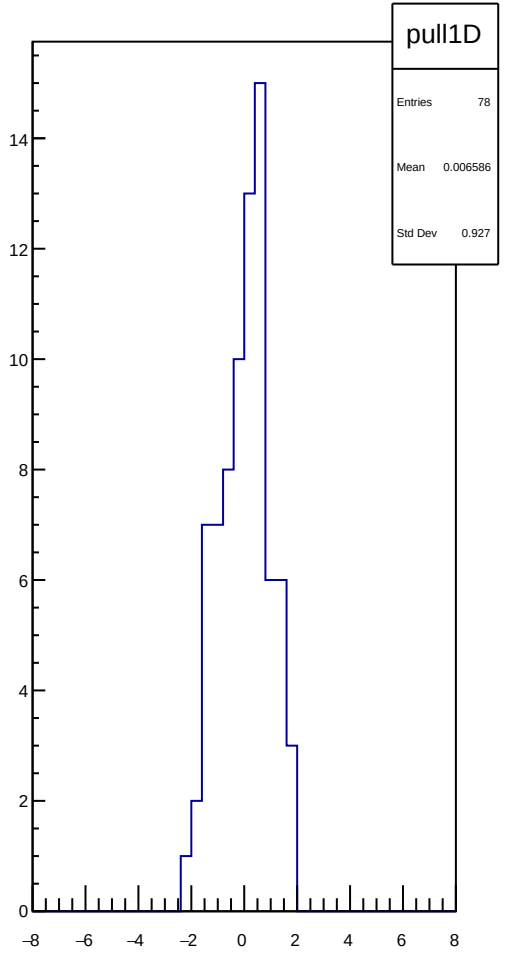

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 1.794e+04 / 77
p0 1245 ± 1.017
1700
1600
1500
1400
1300
1200
1100
1000

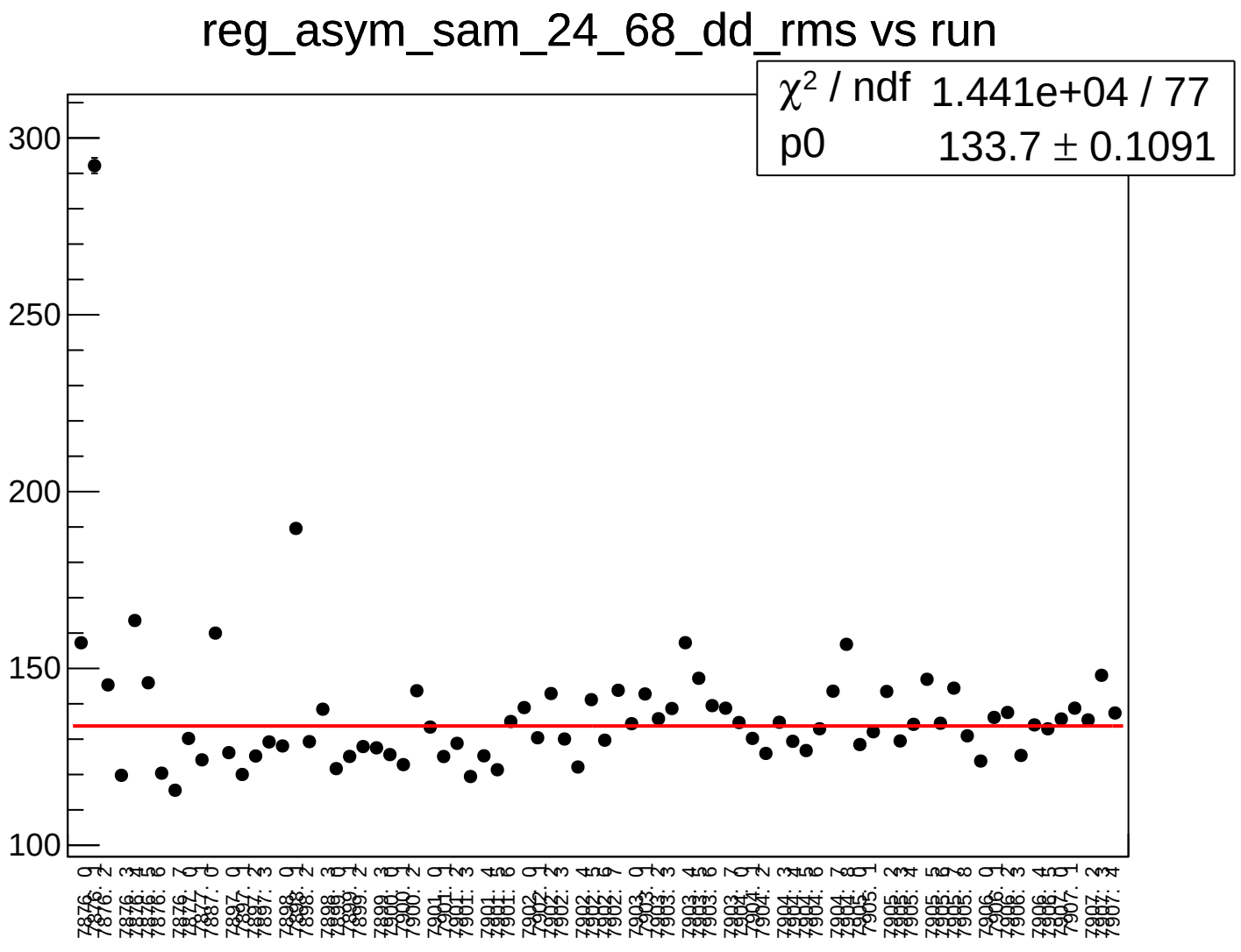

asym_sam_15_37_dd_mean vs run
χ² / ndf 70.13 / 77
p0 −1799 ± 1445
40000
20000
0
−20000
−40000
pull
Entries 78
Mean −1.597
Std Dev 52.85
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

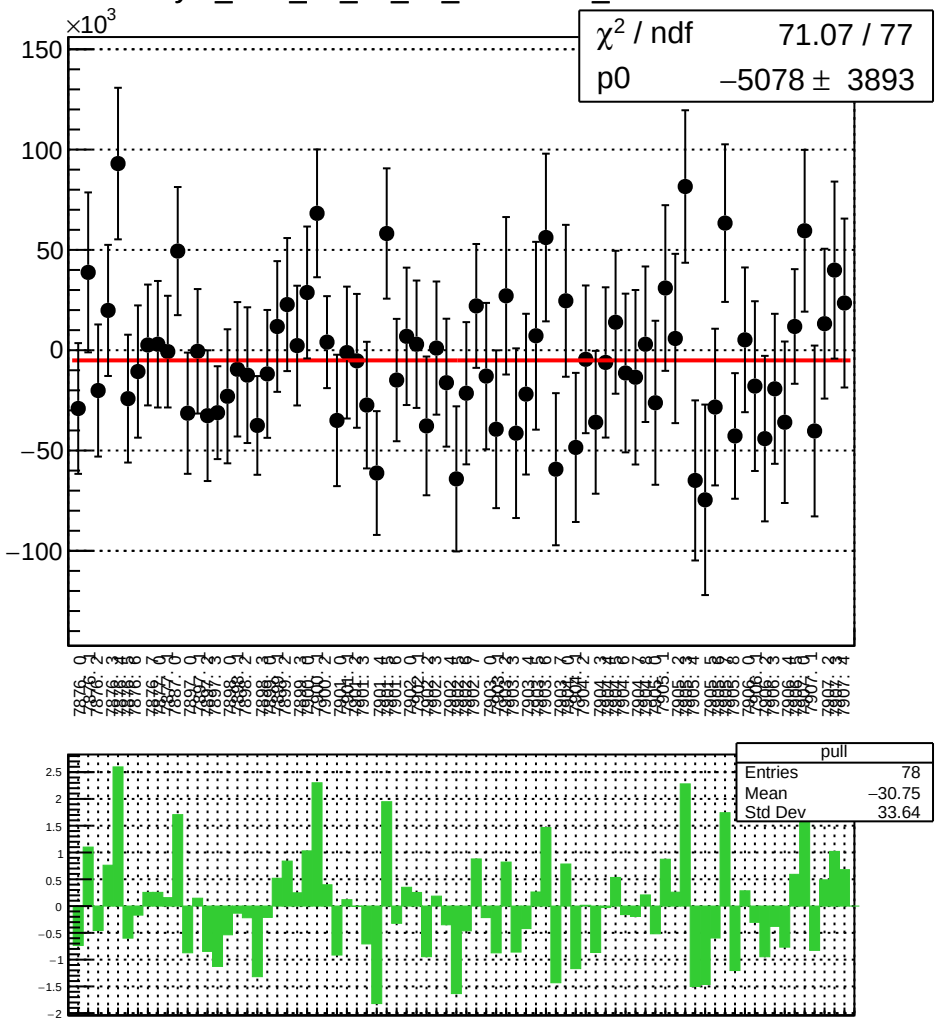

pull1D
Entries 78
Mean 0.01307
Std Dev 0.9481
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

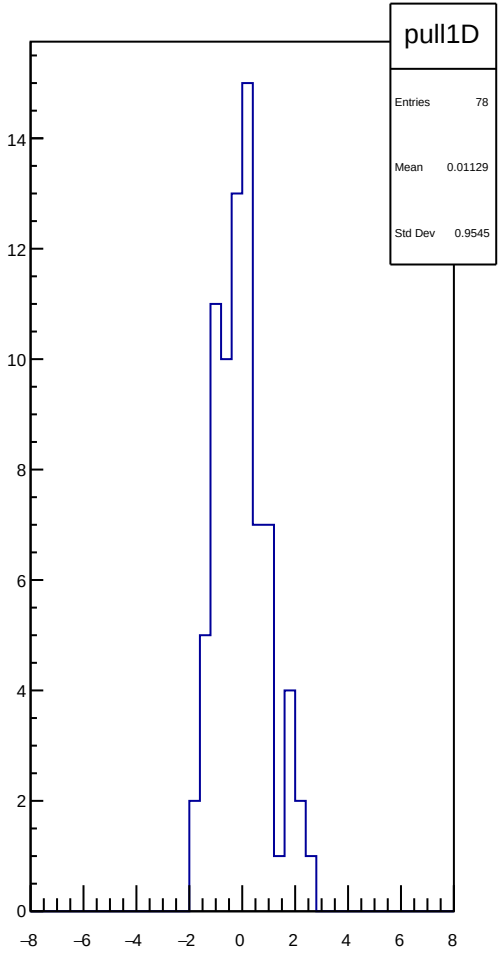

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.78e+04 / 77
p0 1250 ± 1.022
1700
1600
1500
1400
1300
1200
1100
1000

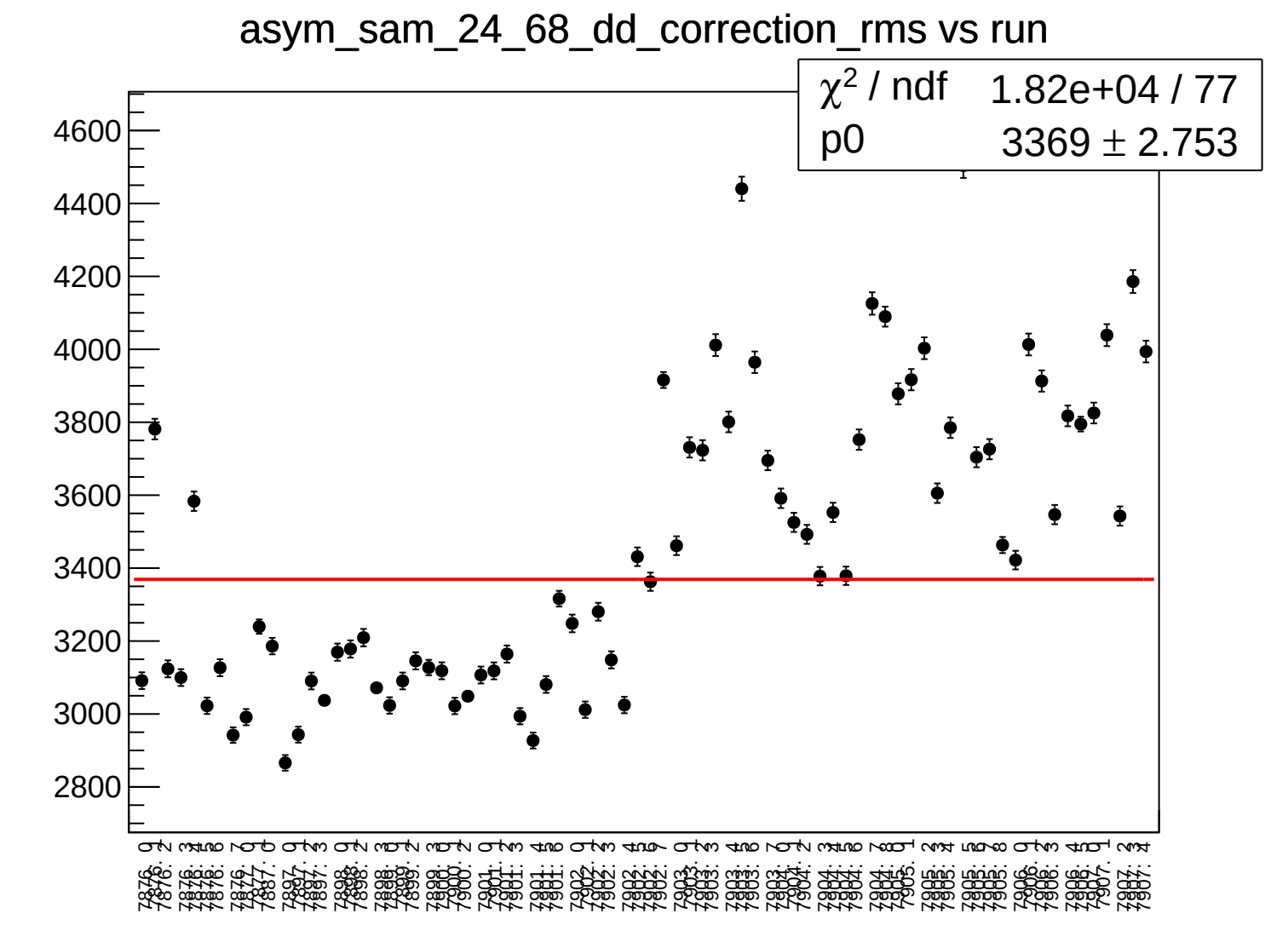

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 67.03 / 77
p0 −142.4 ± 154.3
4000
2000
0
−2000
−4000
pull
Entries 78
Mean −699
Std Dev 731.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

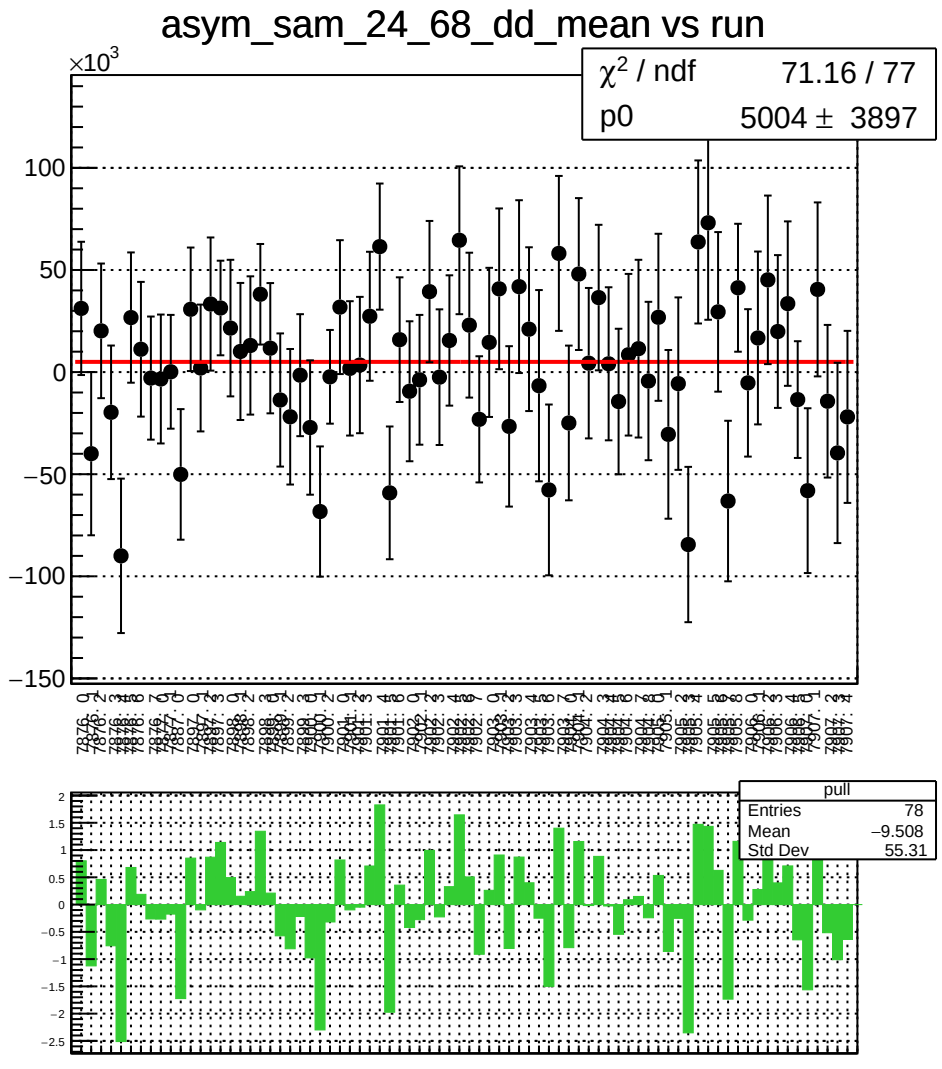

pull1D
Entries 78
Mean 0.006586
Std Dev 0.927
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

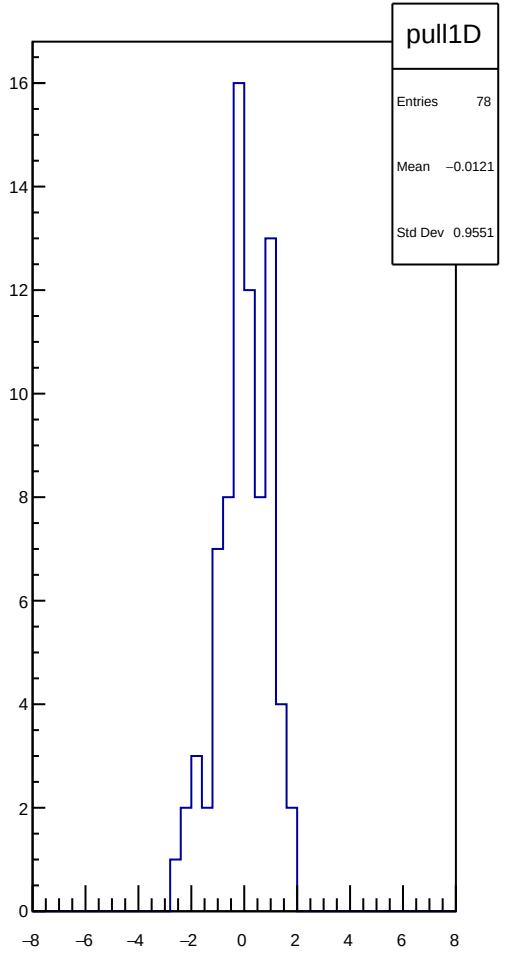

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.441e+04 / 77
p0 133.7 ± 0.1091
300
250
200
150
100

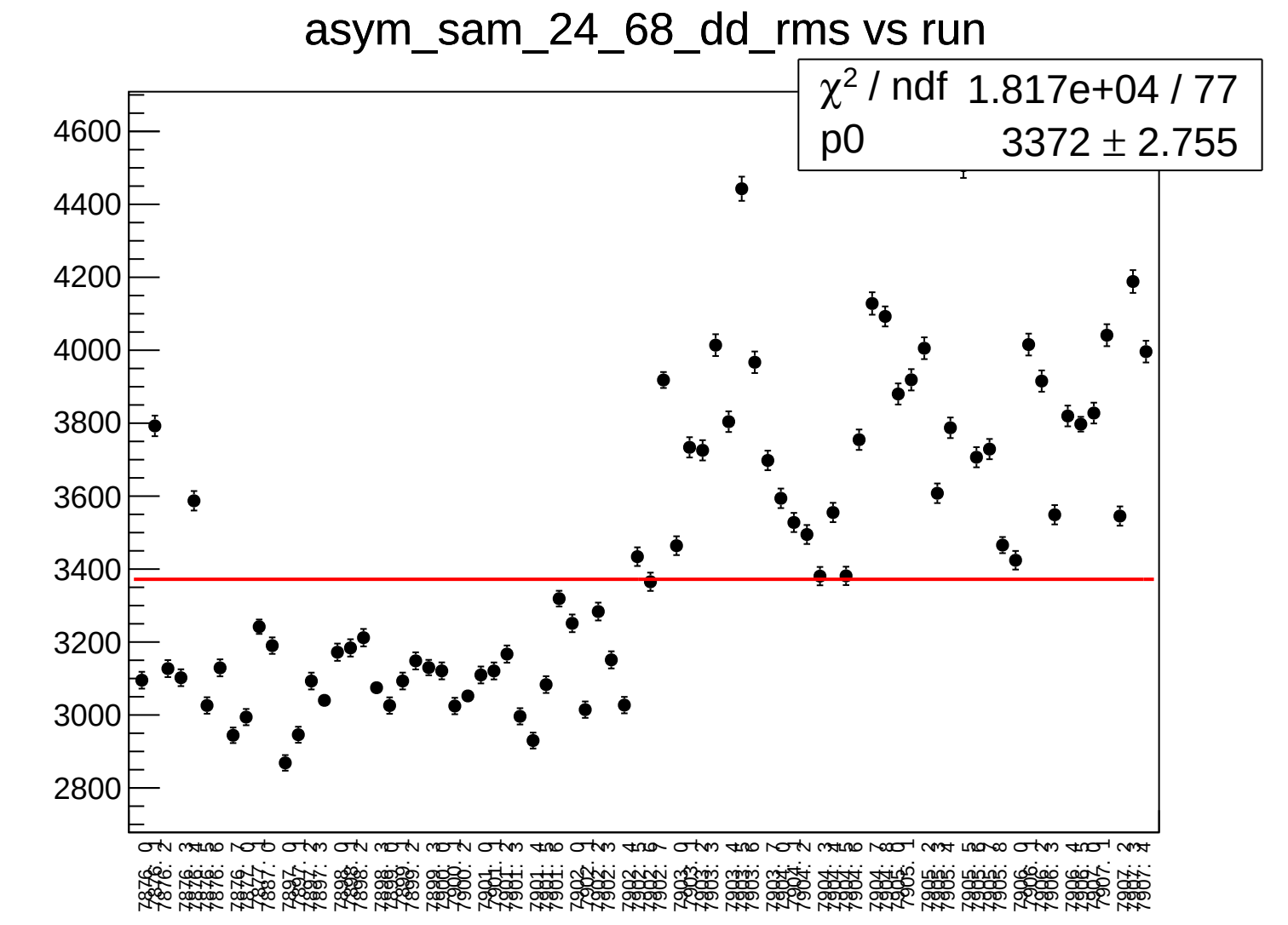

asym_sam_24_68_dd_correction_mean vs run
×10^3
χ² / ndf 71.07 / 77
p0 −5078 ± 3893
pull
Entries 78
Mean −30.75
Std Dev 33.64

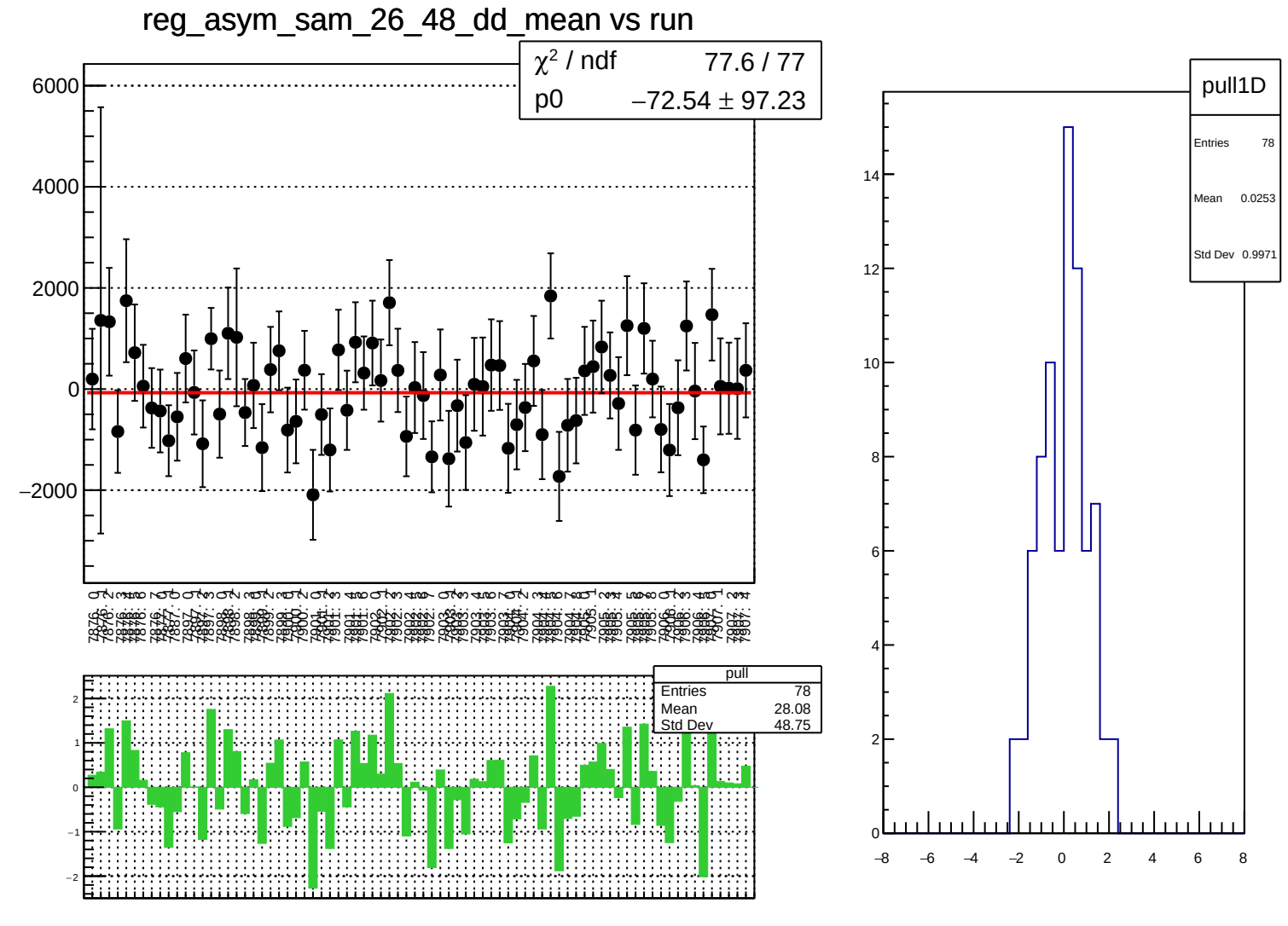

pull1D
Entries 78
Mean 0.01129
Std Dev 0.9545

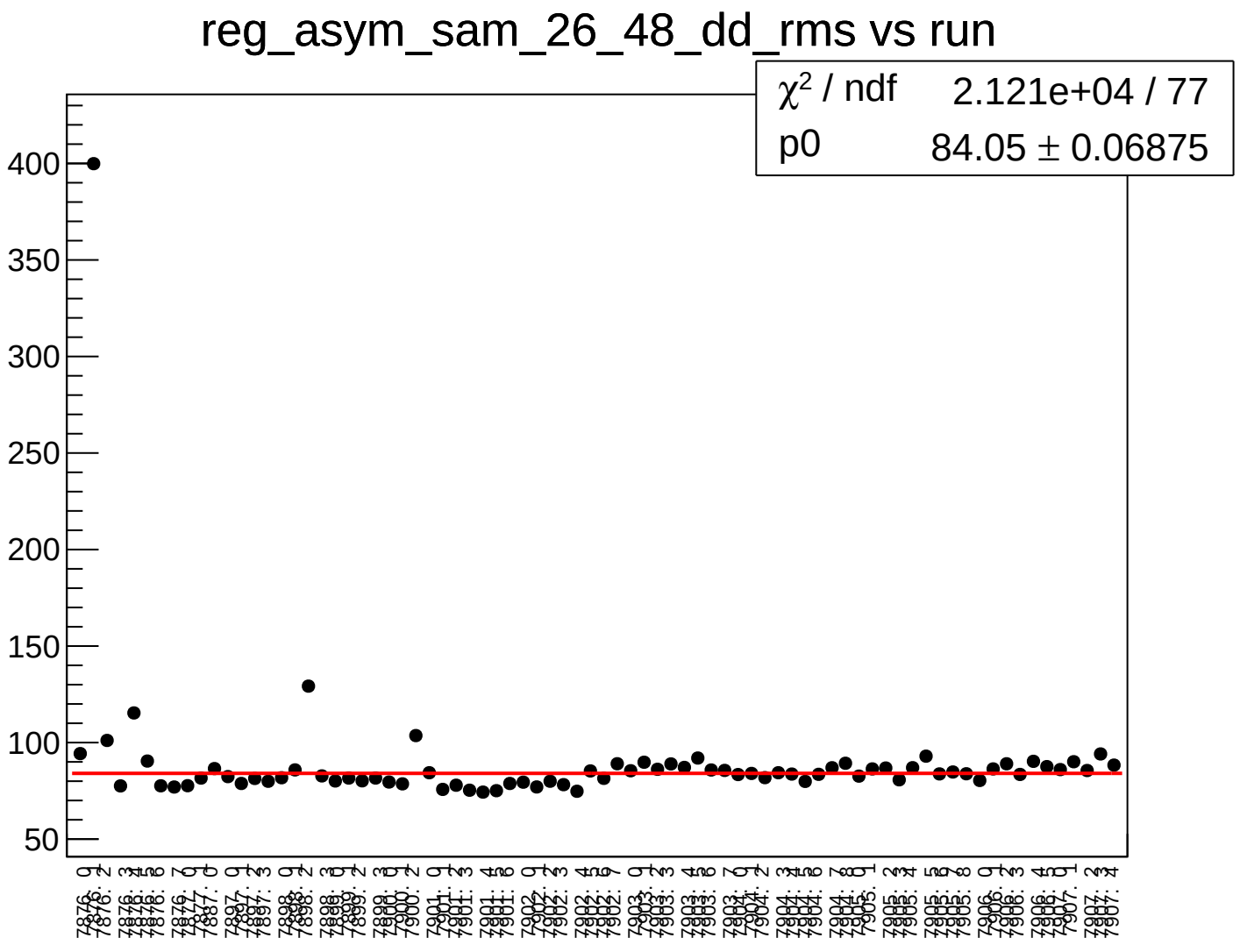

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 1.82e+04 / 77
p0 3369 ± 2.753
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

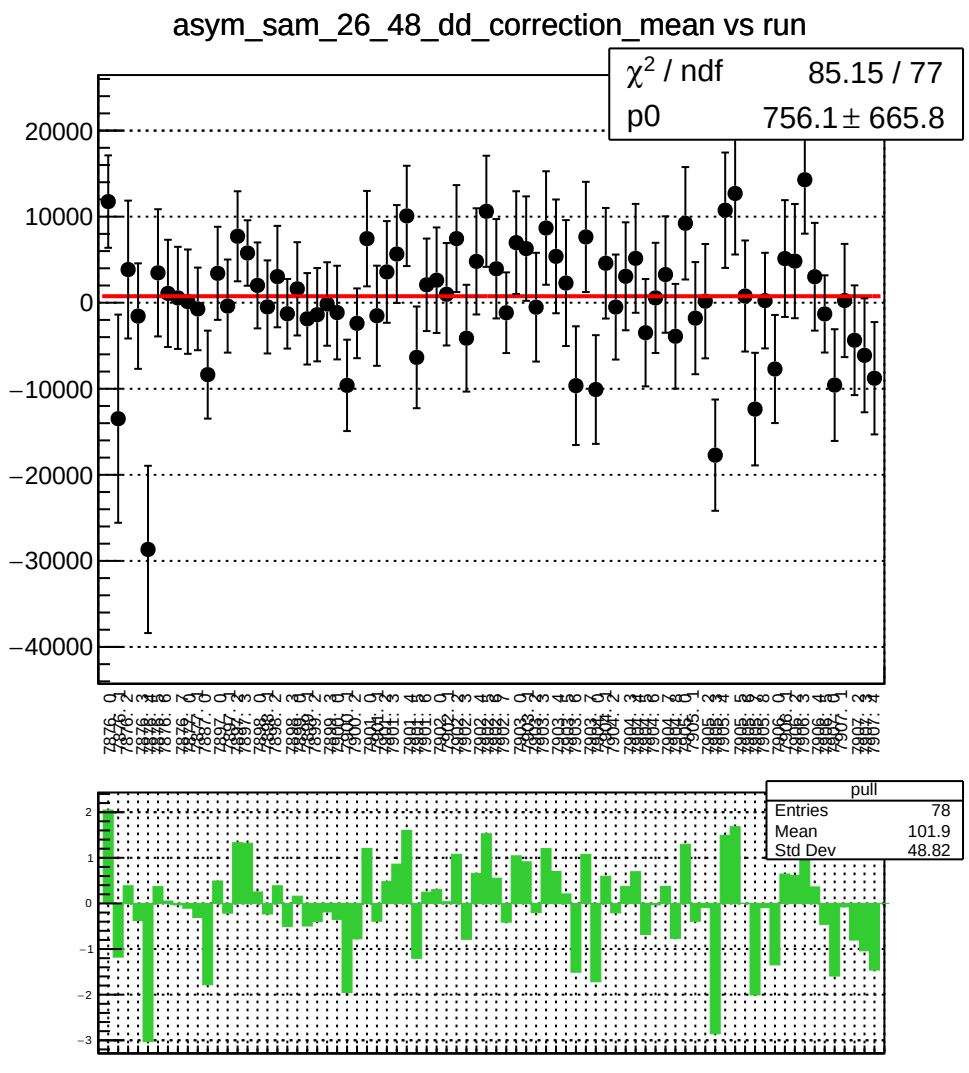

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 71.16 / 77
p0 5004 ± 3897
100
50
0
−50
−100
−150
pull
Entries 78
Mean −9.508
Std Dev 55.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

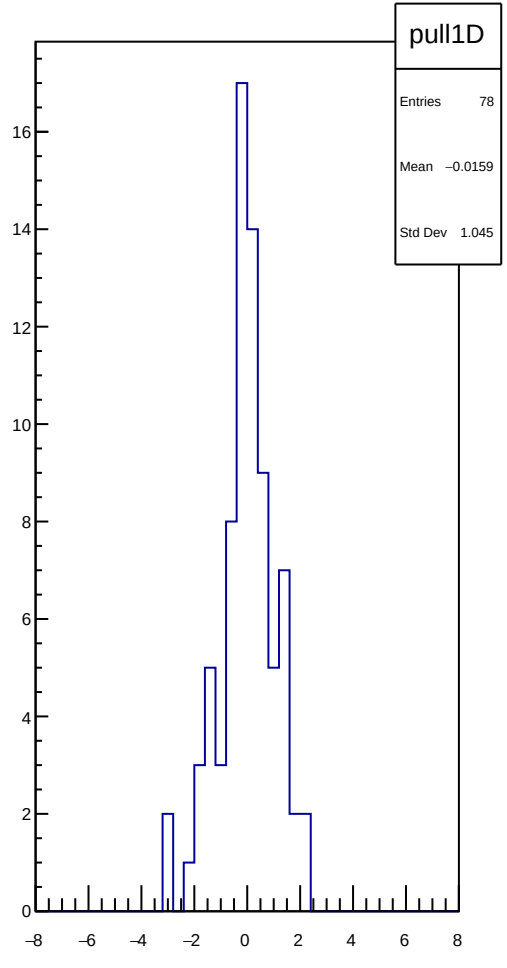

pull1D
Entries 78
Mean −0.0121
Std Dev 0.9551
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

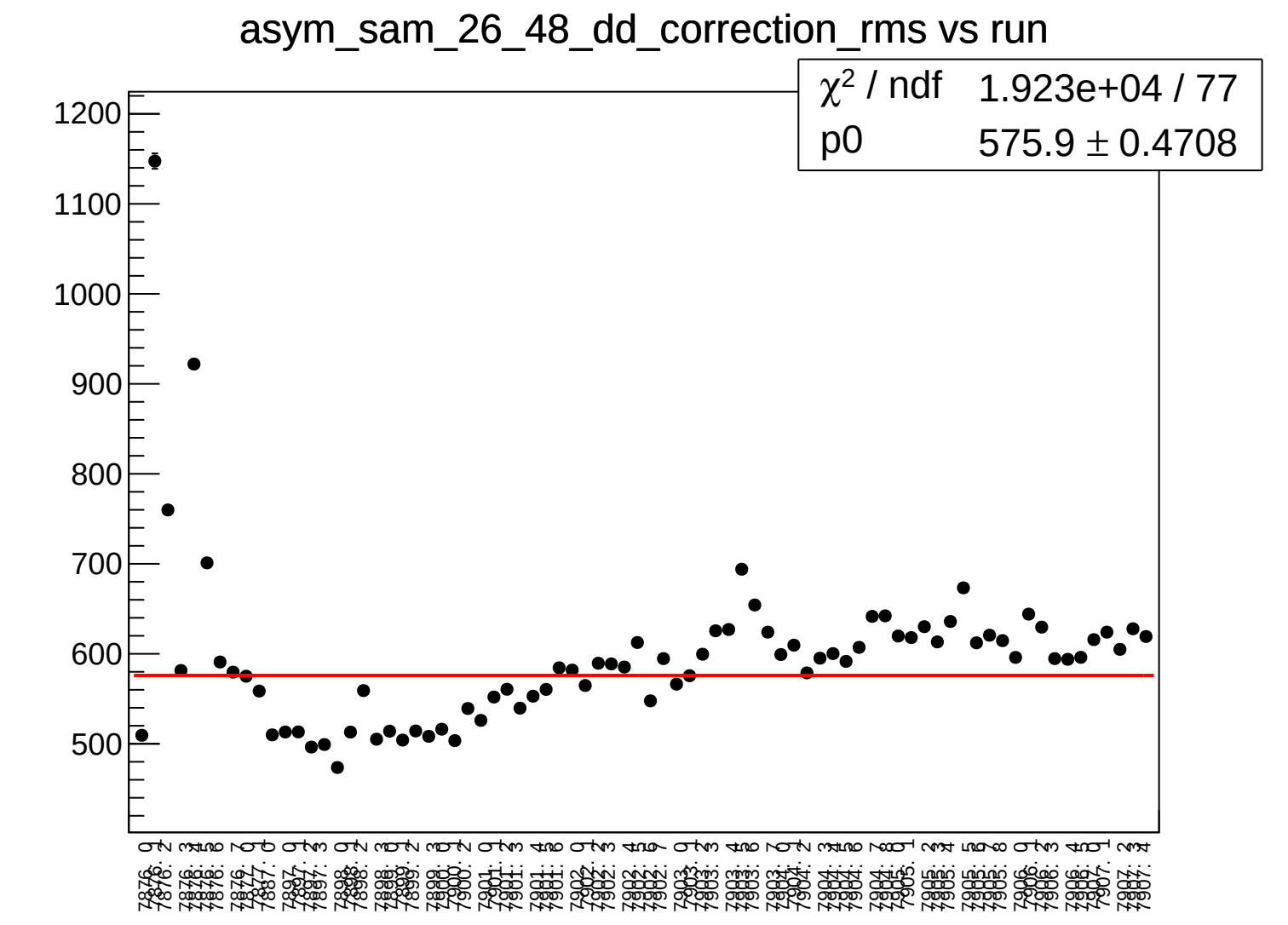

asym_sam_24_68_dd_rms vs run
χ² / ndf 1.817e+04 / 77
p0 3372 ± 2.755
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

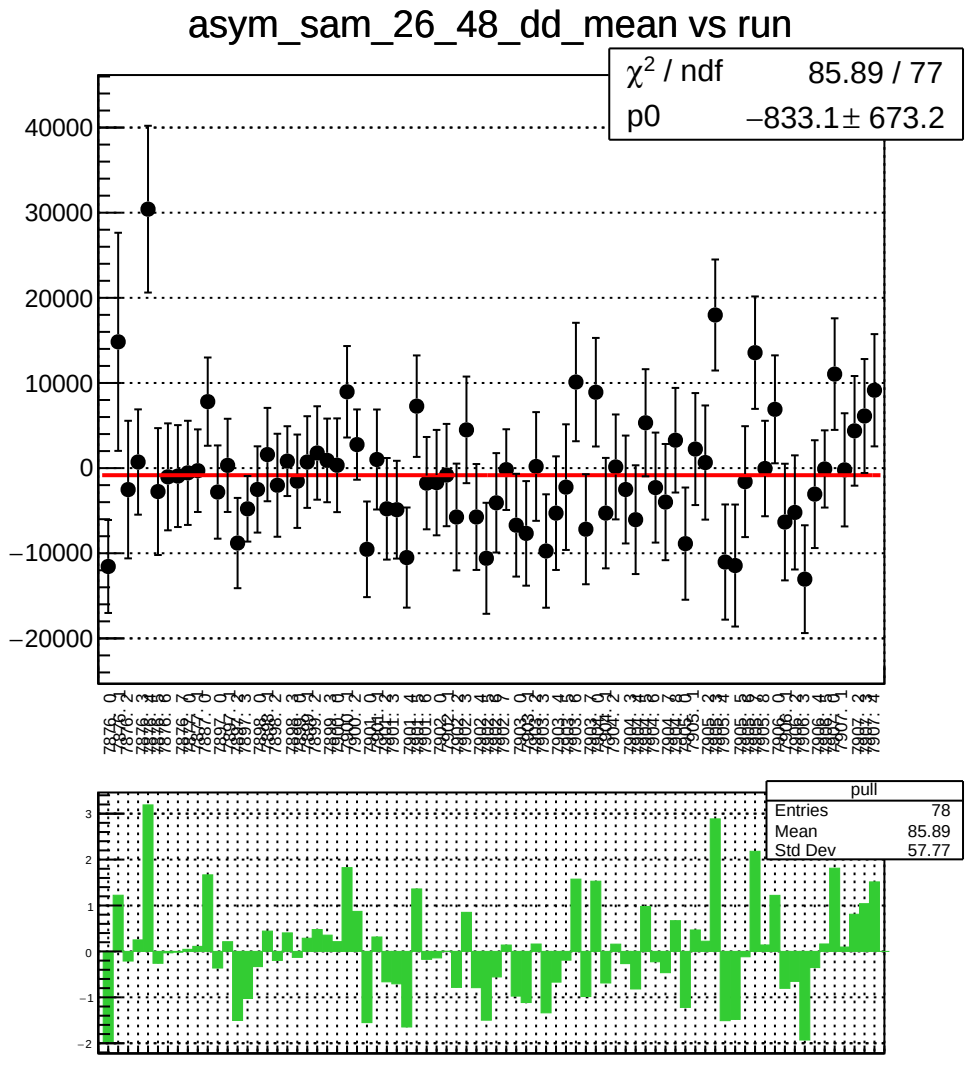

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 77.6 / 77
p0 −72.54 ± 97.23
6000
4000
2000
0
−2000
pull
Entries 78
Mean 28.08
Std Dev 48.75
pull1D
Entries 78
Mean 0.0253
Std Dev 0.9971

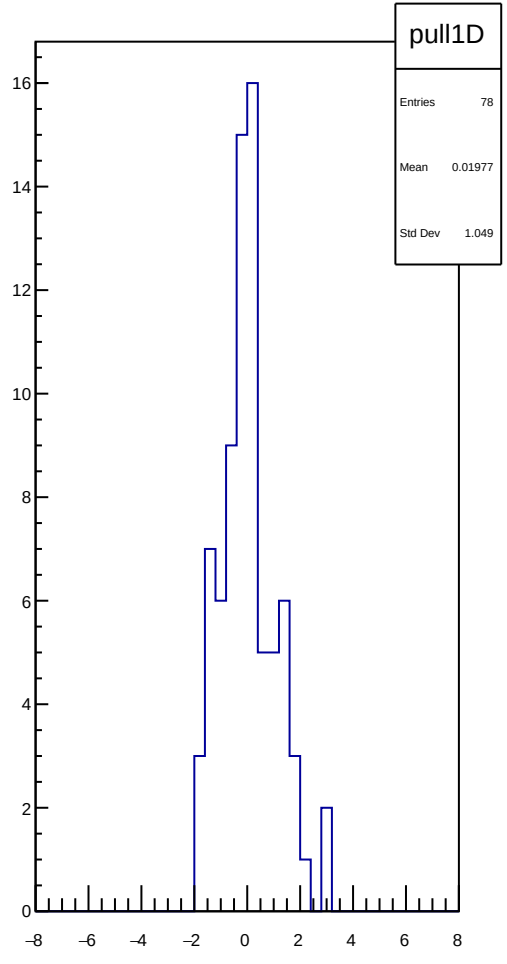

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.121e+04 / 77
p0 84.05 ± 0.06875
400
350
300
250
200
150
100
50

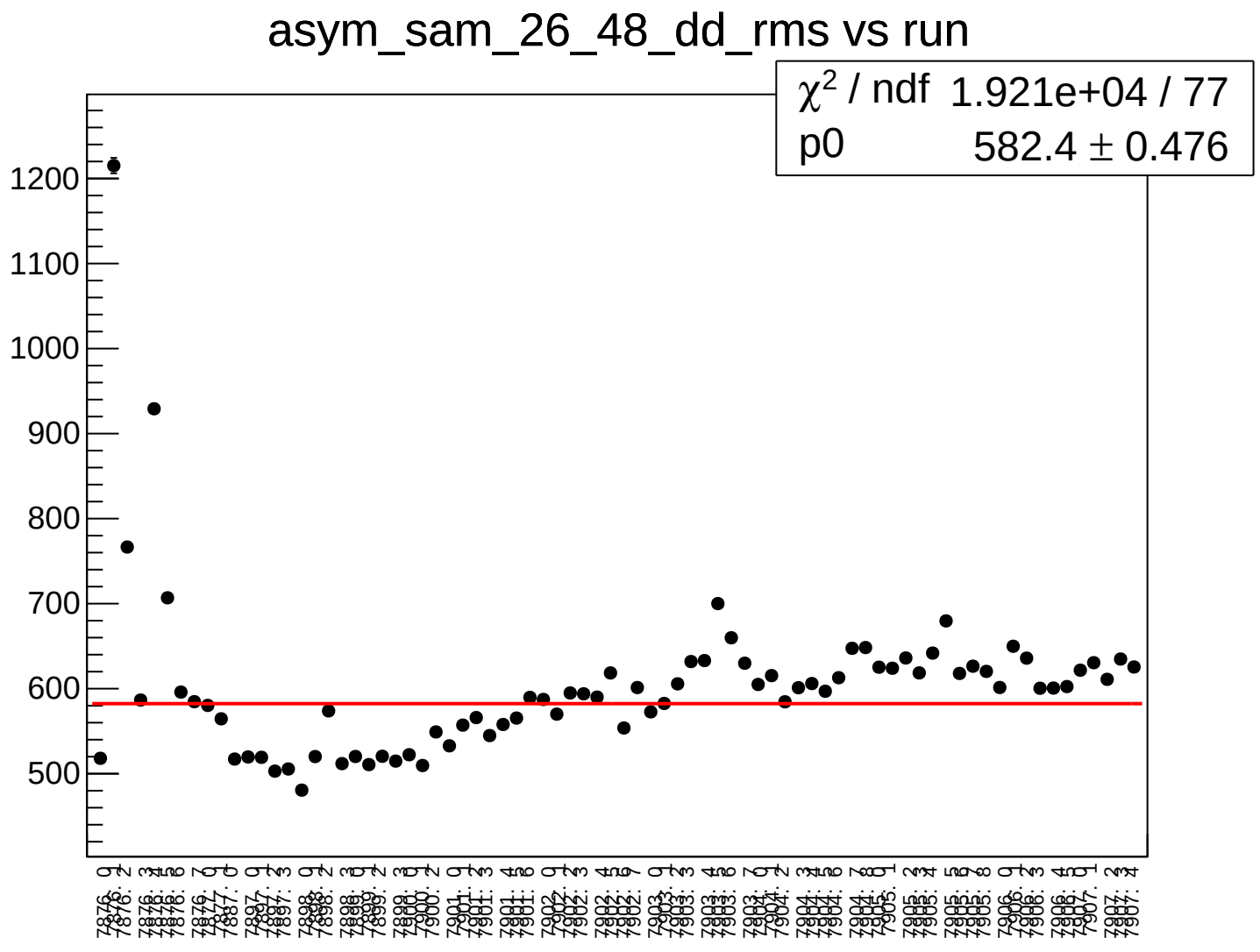

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 85.15 / 77
p0 756.1 ± 665.8
pull
Entries 78
Mean 101.9
Std Dev 48.82

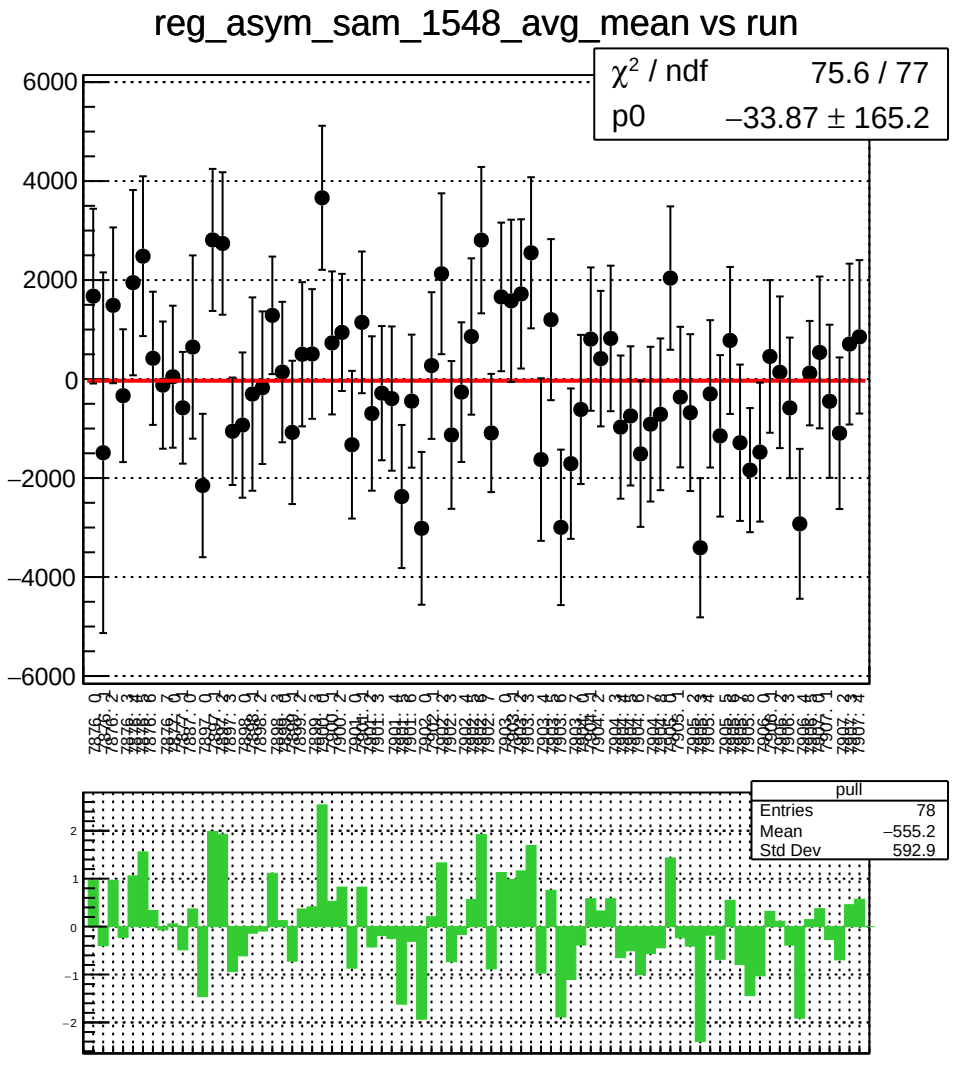

pull1D
Entries 78
Mean −0.0159
Std Dev 1.045

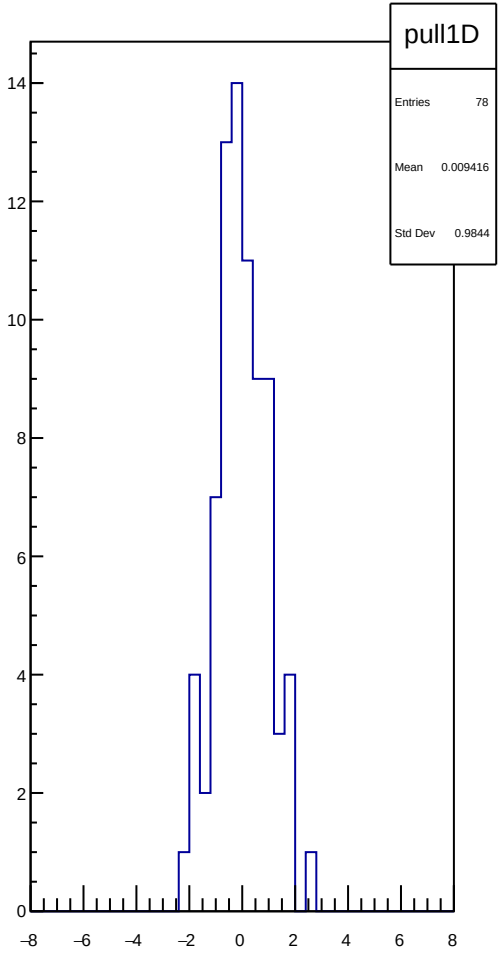

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 1.923e+04 / 77
p0 575.9 ± 0.4708
1200
1100
1000
900
800
700
600
500

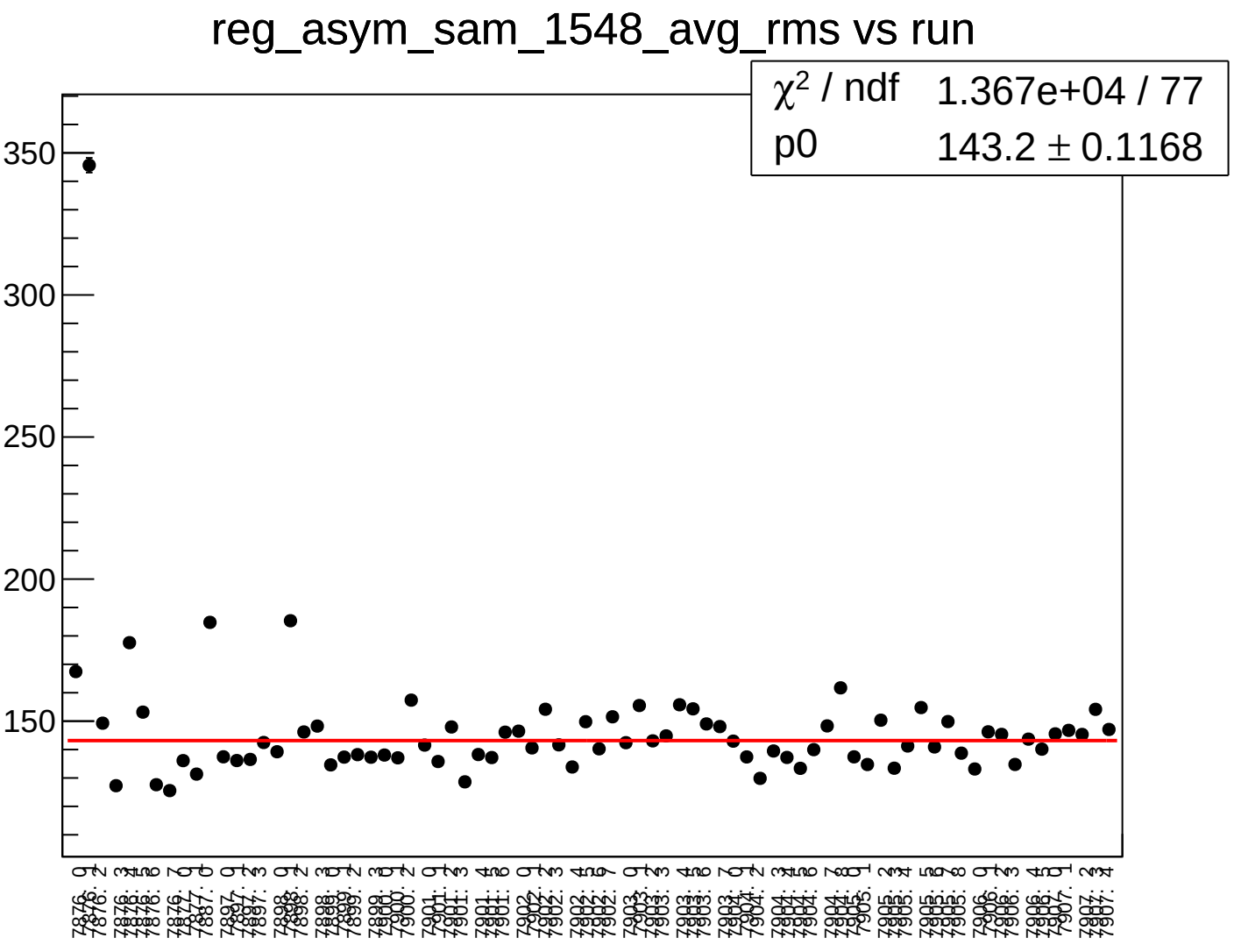

asym_sam_26_48_dd_mean vs run
χ² / ndf 85.89 / 77
p0 −833.1± 673.2
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 85.89
Std Dev 57.77
3
2
1
0
−1
−2

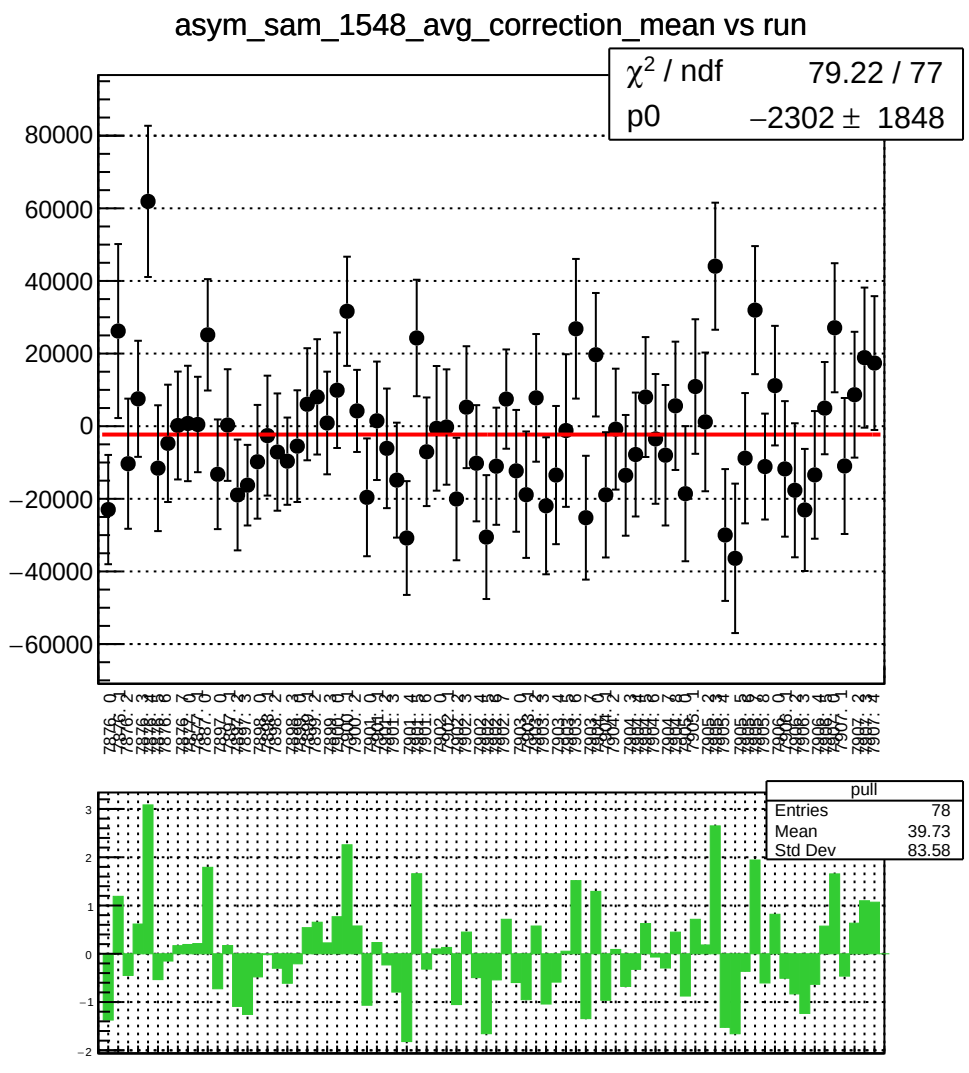

pull1D
Entries 78
Mean 0.01977
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

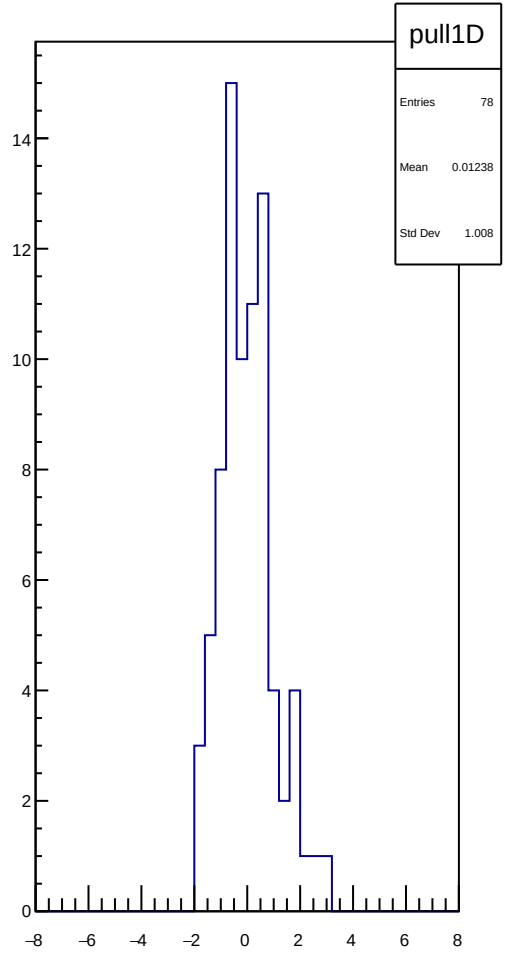

asym_sam_26_48_dd_rms vs run
χ² / ndf 1.921e+04 / 77
p0 582.4 ± 0.476
1200
1100
1000
900
800
700
600
500

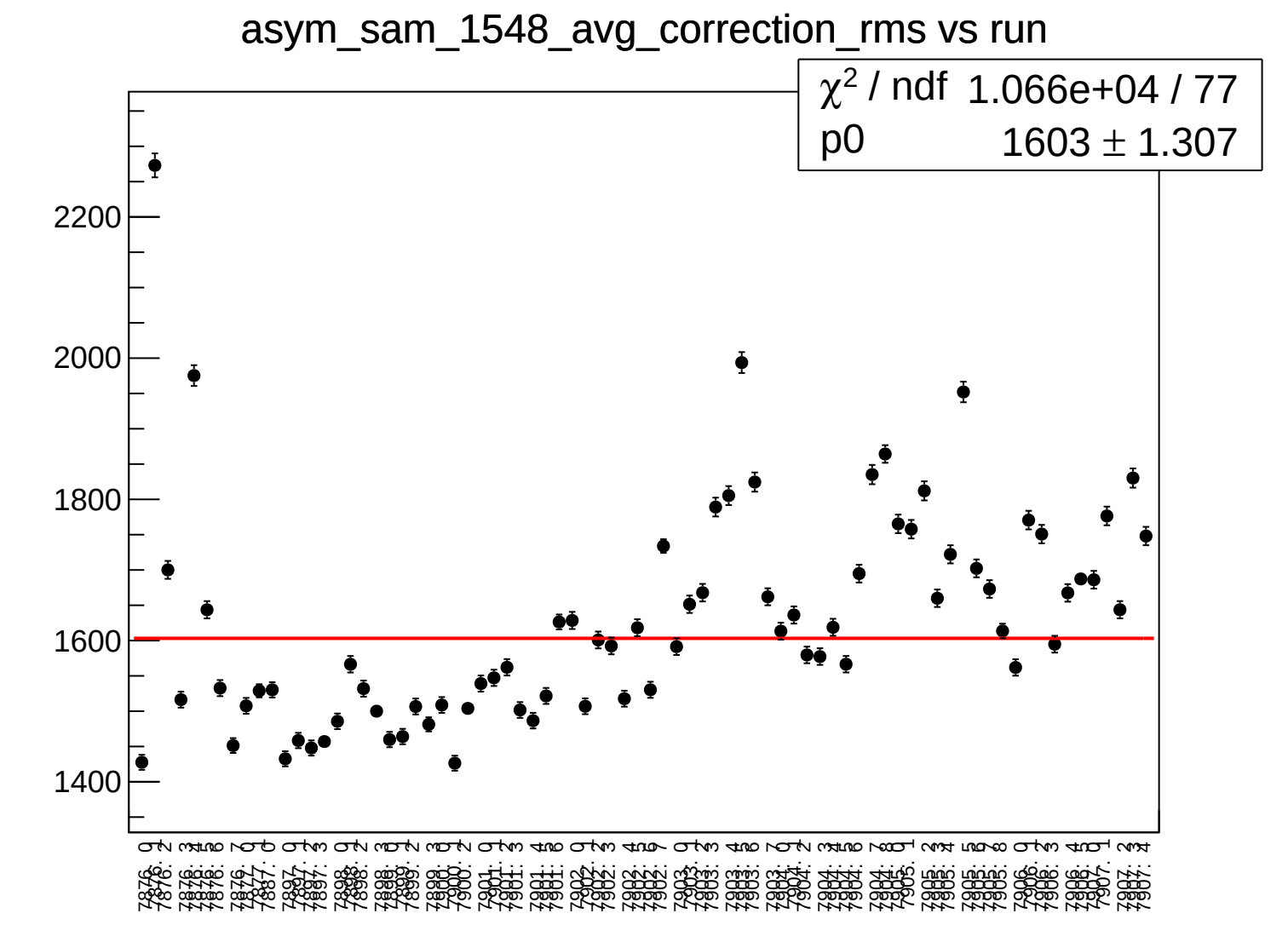

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 75.6 / 77
p0 −33.87 ± 165.2
pull
Entries 78
Mean −555.2
Std Dev 592.9

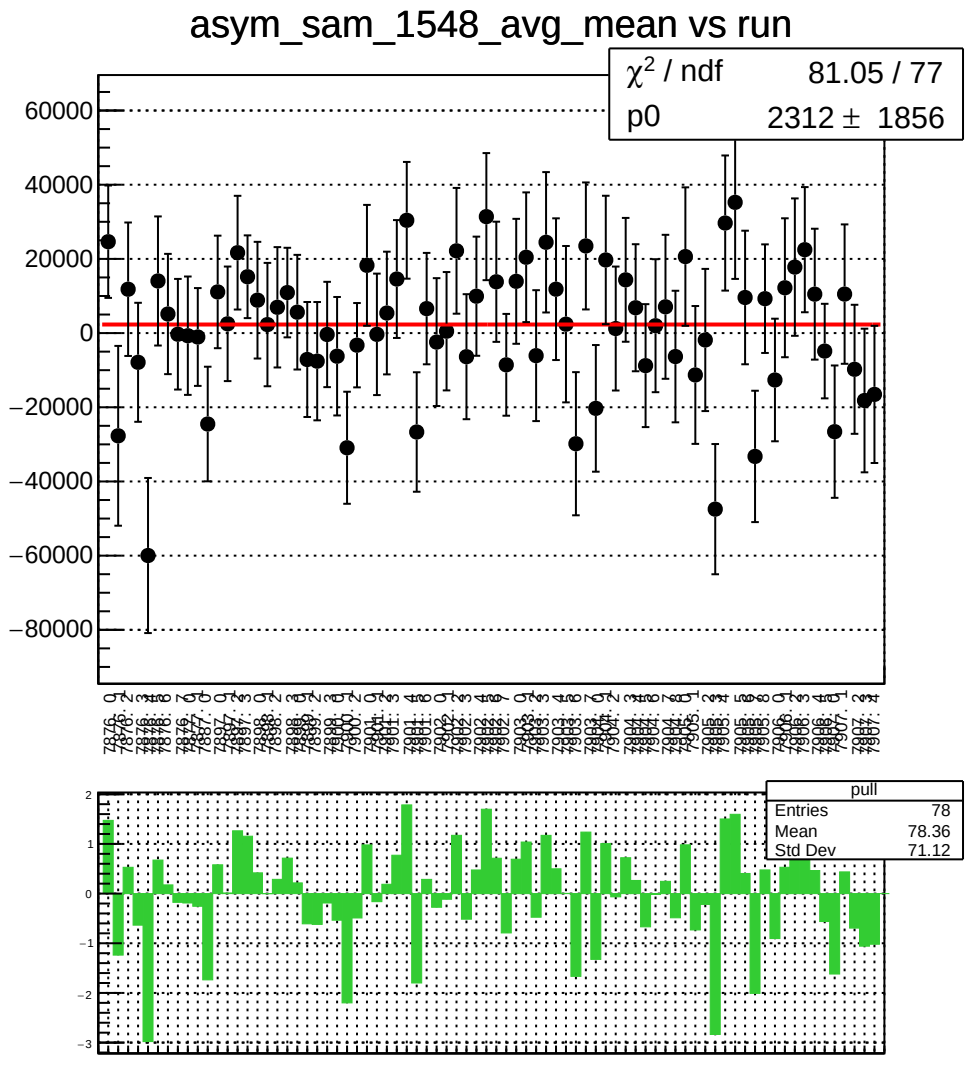

pull1D
Entries 78
Mean 0.009416
Std Dev 0.9844

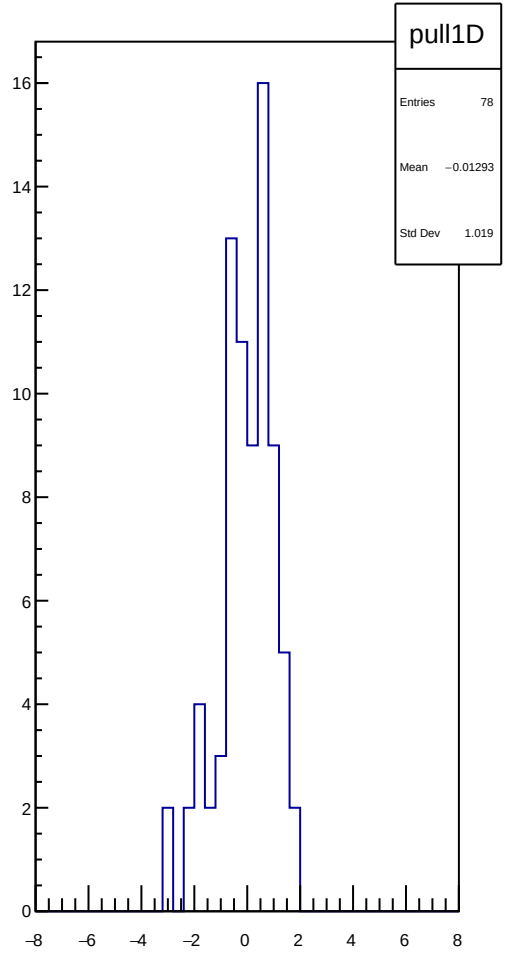

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 1.367e+04 / 77
p0 143.2 ± 0.1168
350
300
250
200
150

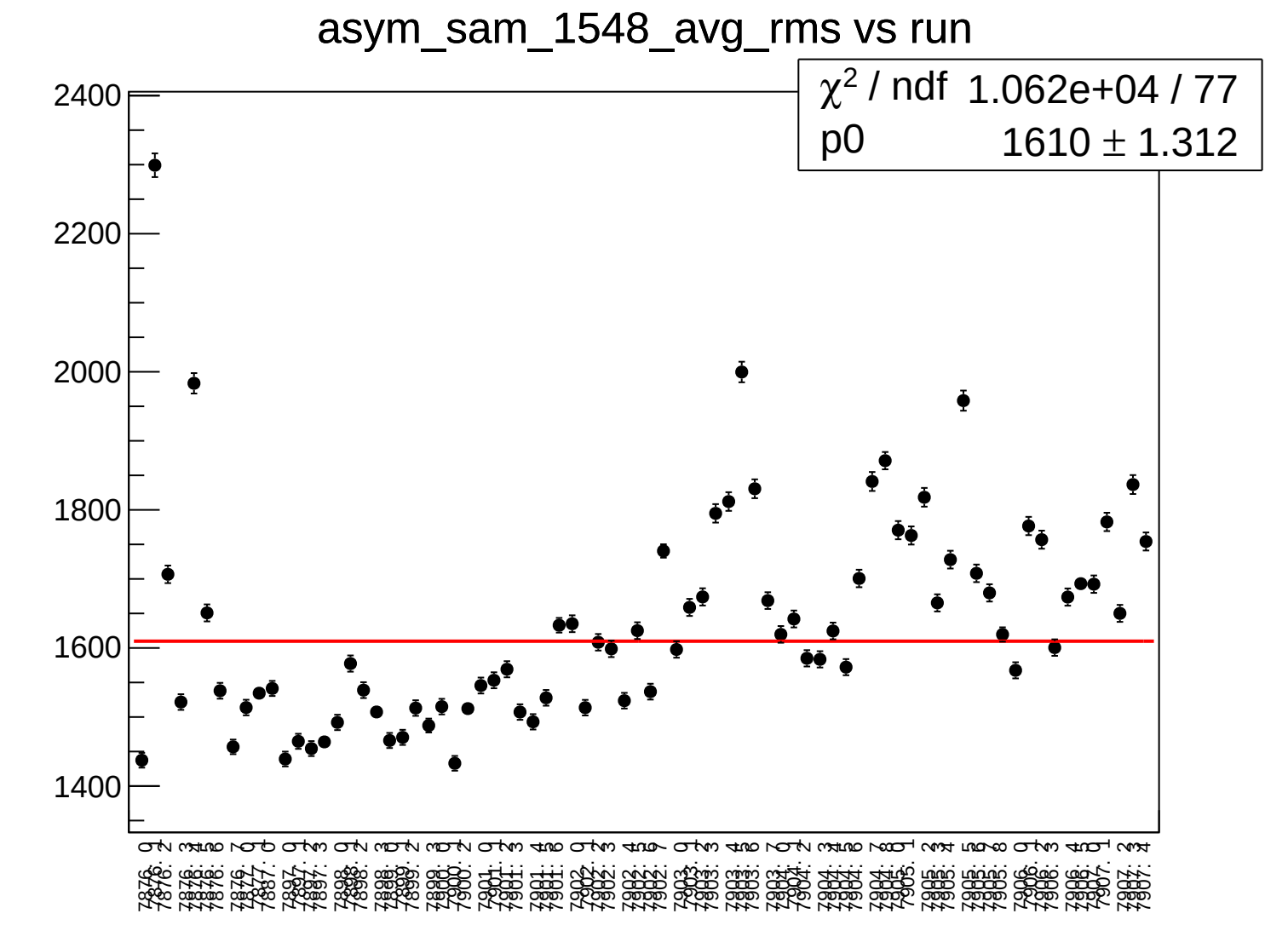

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 79.22 / 77
p0 −2302 ± 1848
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean 39.73
Std Dev 83.58
3
2
1
0
−1
−2

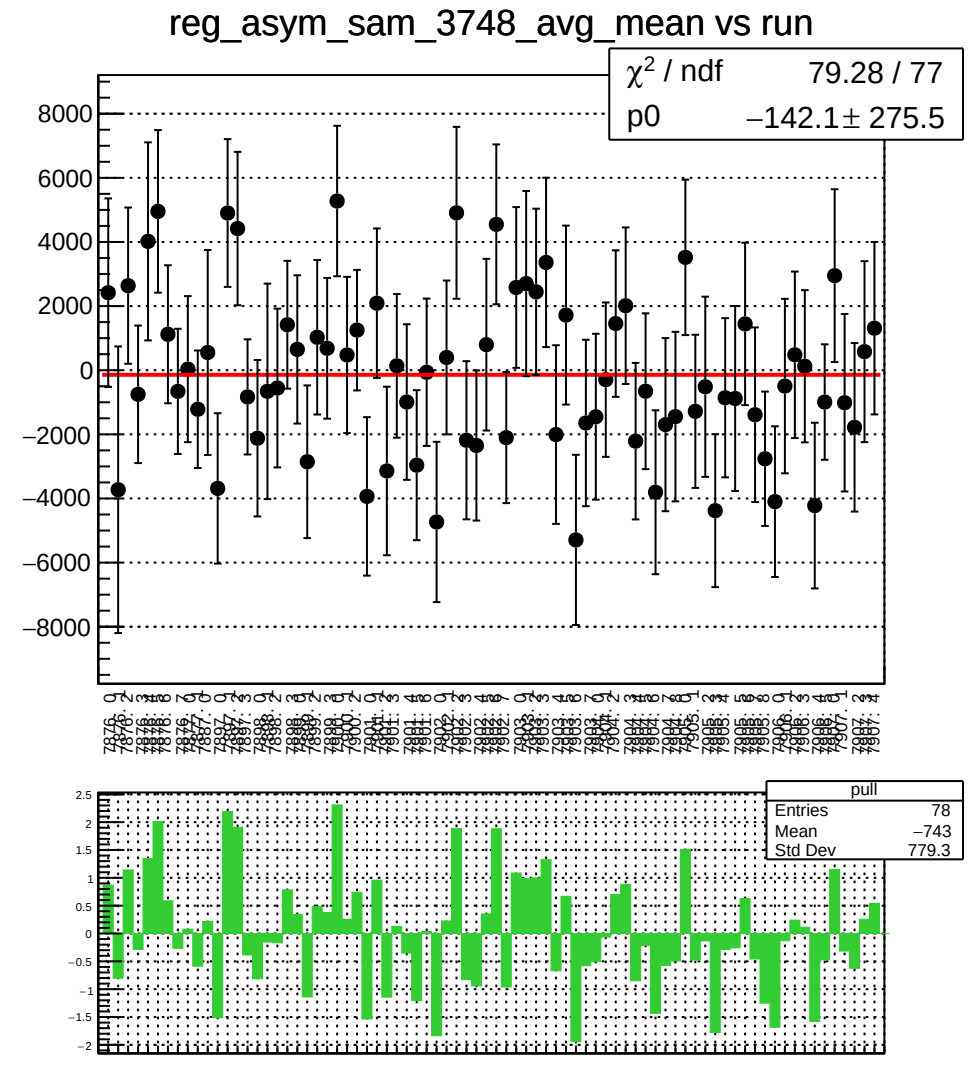

pull1D
Entries 78
Mean 0.01238
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

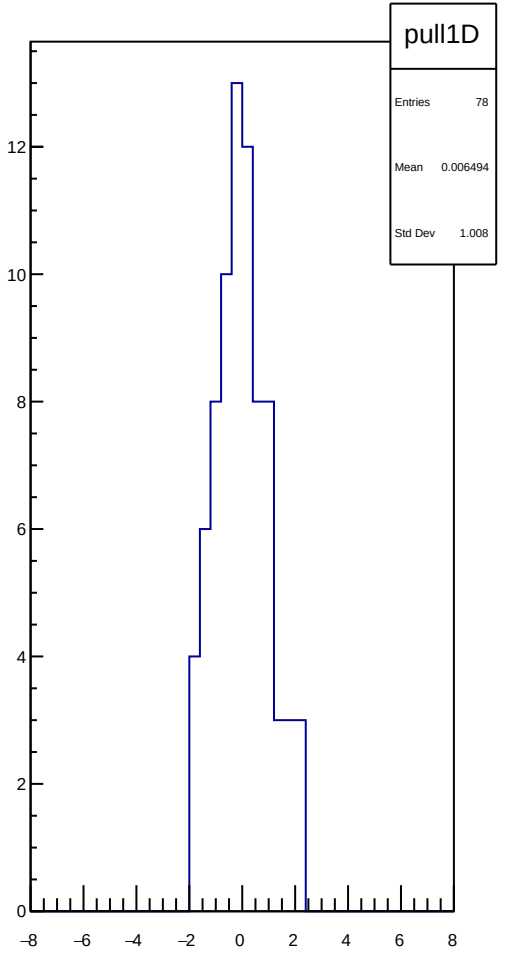

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 1.066e+04 / 77
p0 1603 ± 1.307
2200
2000
1800
1600
1400

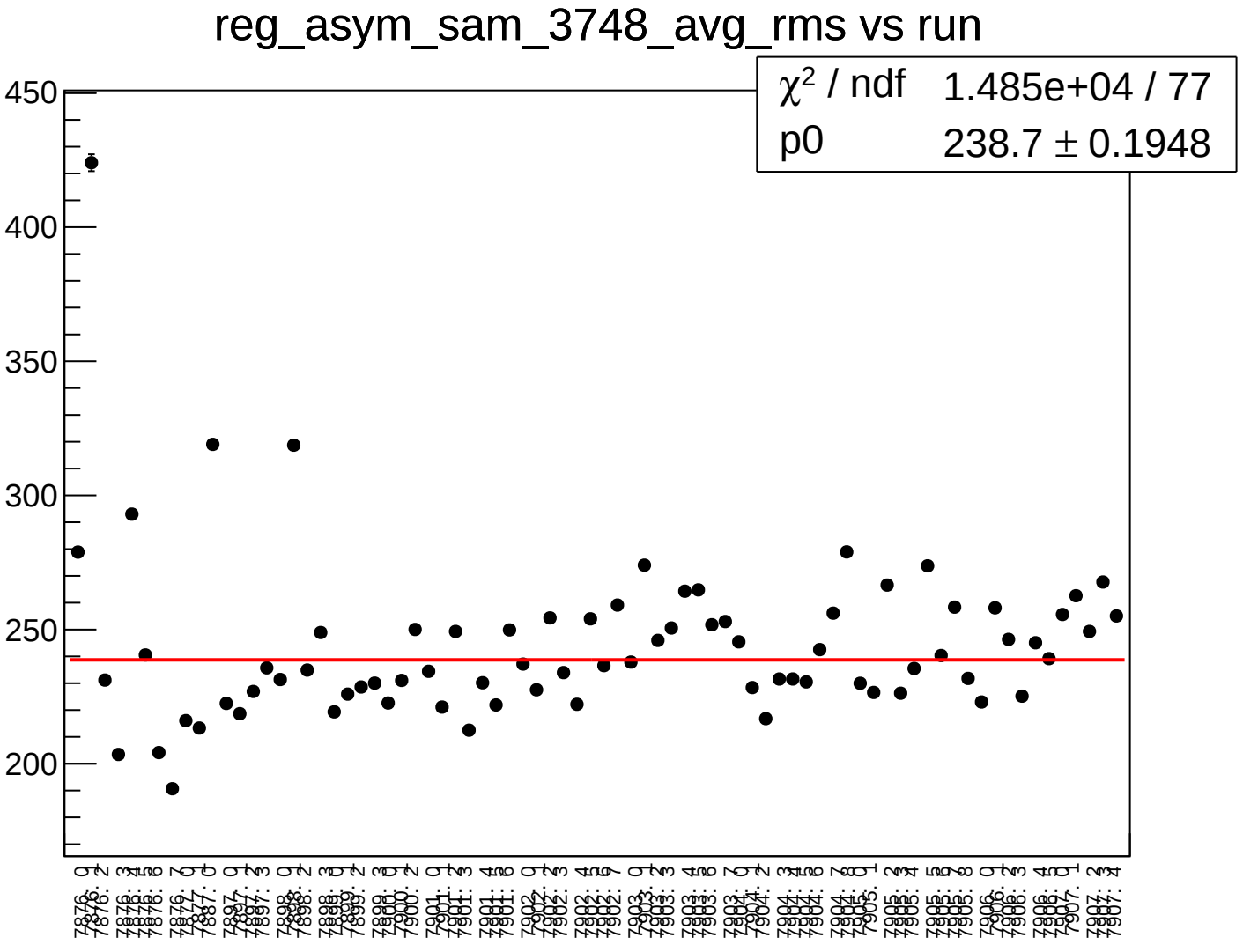

asym_sam_1548_avg_mean vs run
χ² / ndf 81.05 / 77
p0 2312 ± 1856
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 78
Mean 78.36
Std Dev 71.12
2
1
0
−1
−2
−3

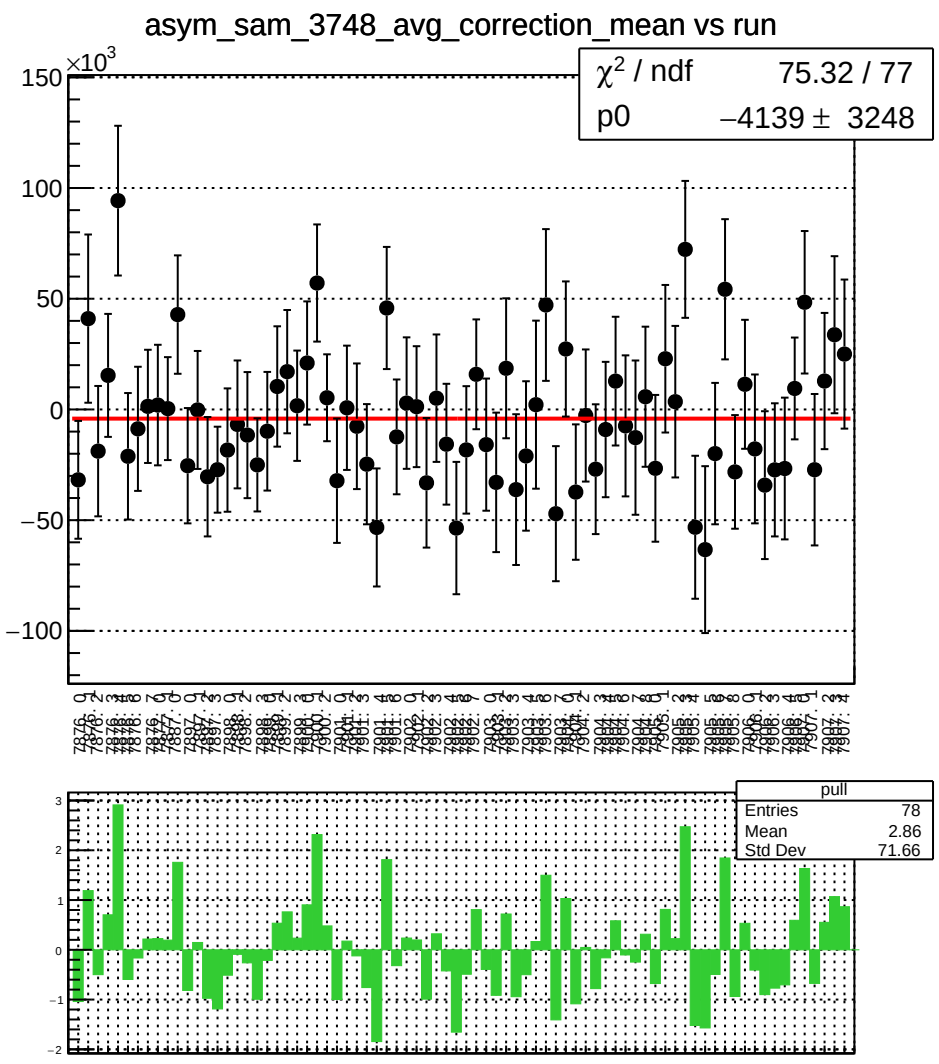

pull1D
Entries 78
Mean −0.01293
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

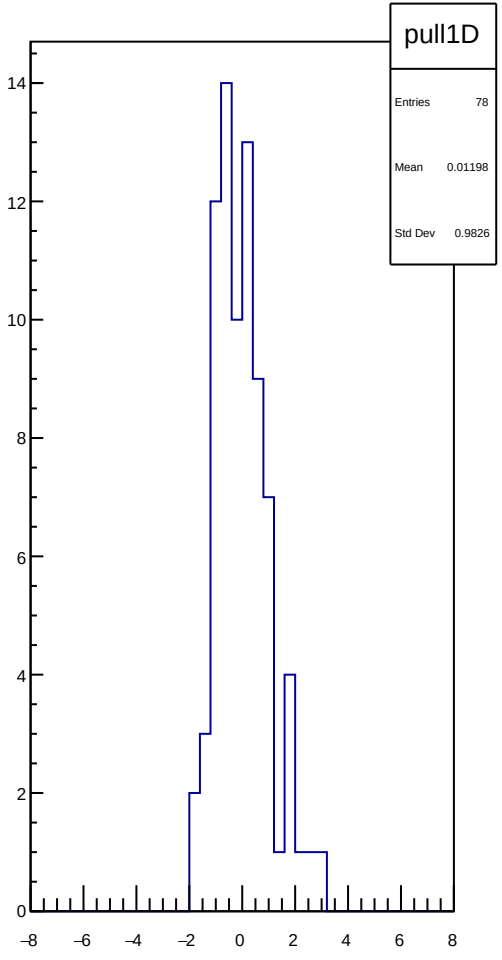

asym_sam_1548_avg_rms vs run
χ² / ndf 1.062e+04 / 77
p0 1610 ± 1.312
2400
2200
2000
1800
1600
1400

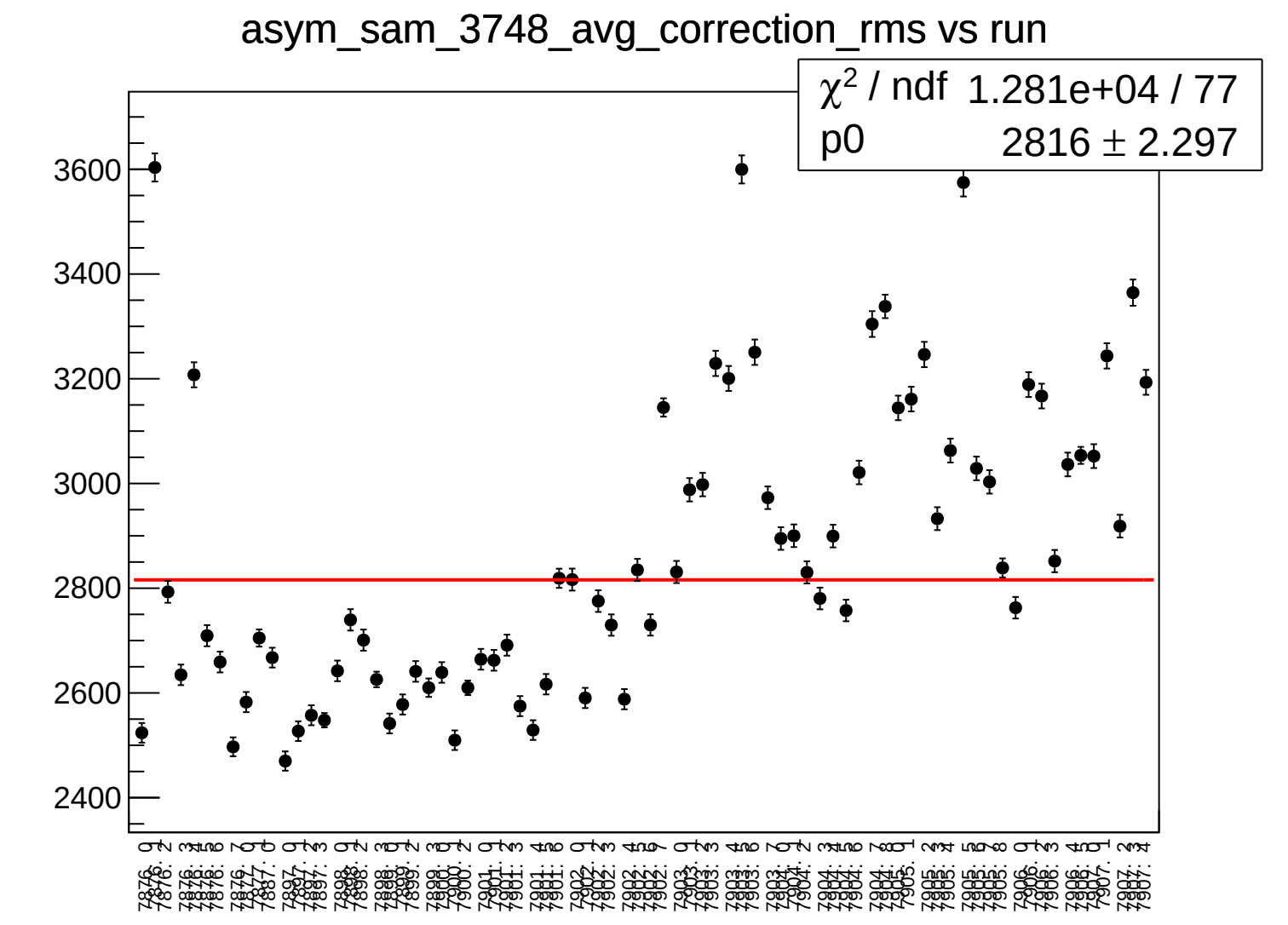

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 79.28 / 77
p0 −142.1± 275.5
pull
Entries 78
Mean −743
Std Dev 779.3

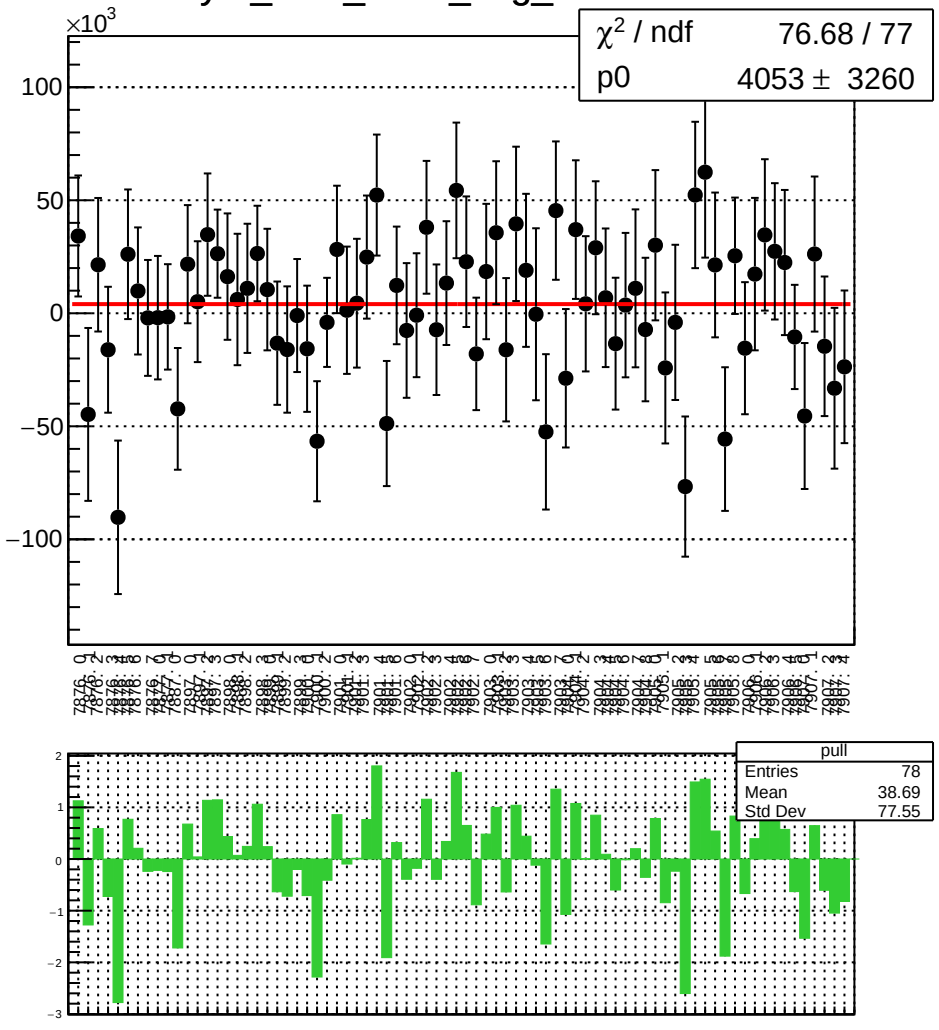

pull1D
Entries 78
Mean 0.006494
Std Dev 1.008

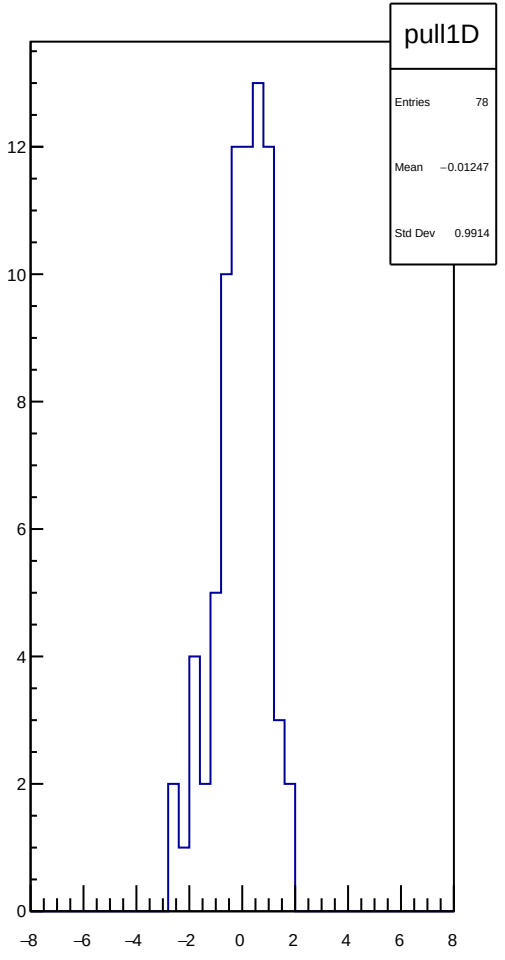

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.485e+04 / 77
p0 238.7 ± 0.1948
450
400
350
300
250
200

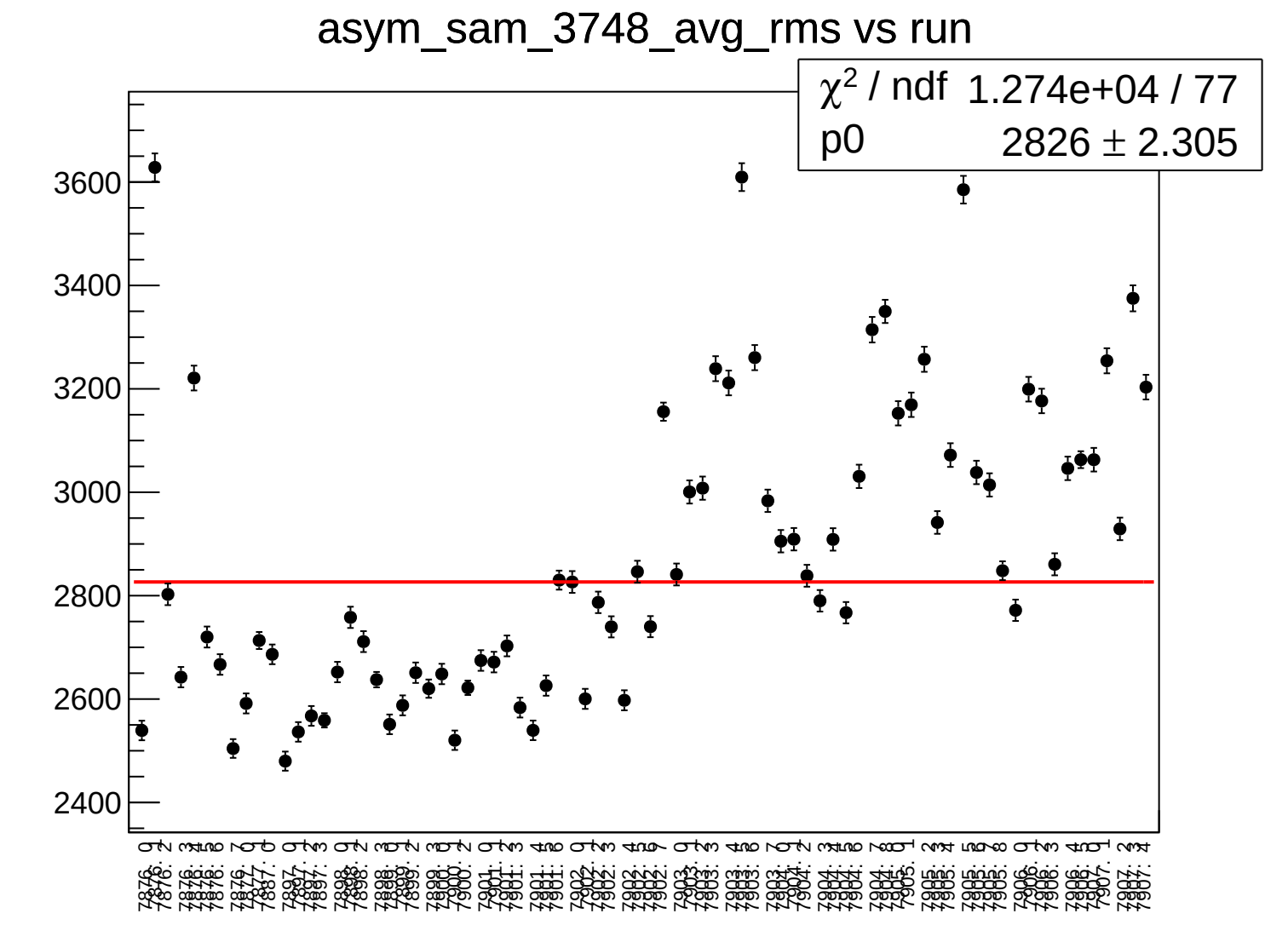

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 75.32 / 77
p0 −4139 ± 3248
×10³
150
100
50
0
−50
−100
pull
Entries 78
Mean 2.86
Std Dev 71.66
3
2
1
0
−1
−2

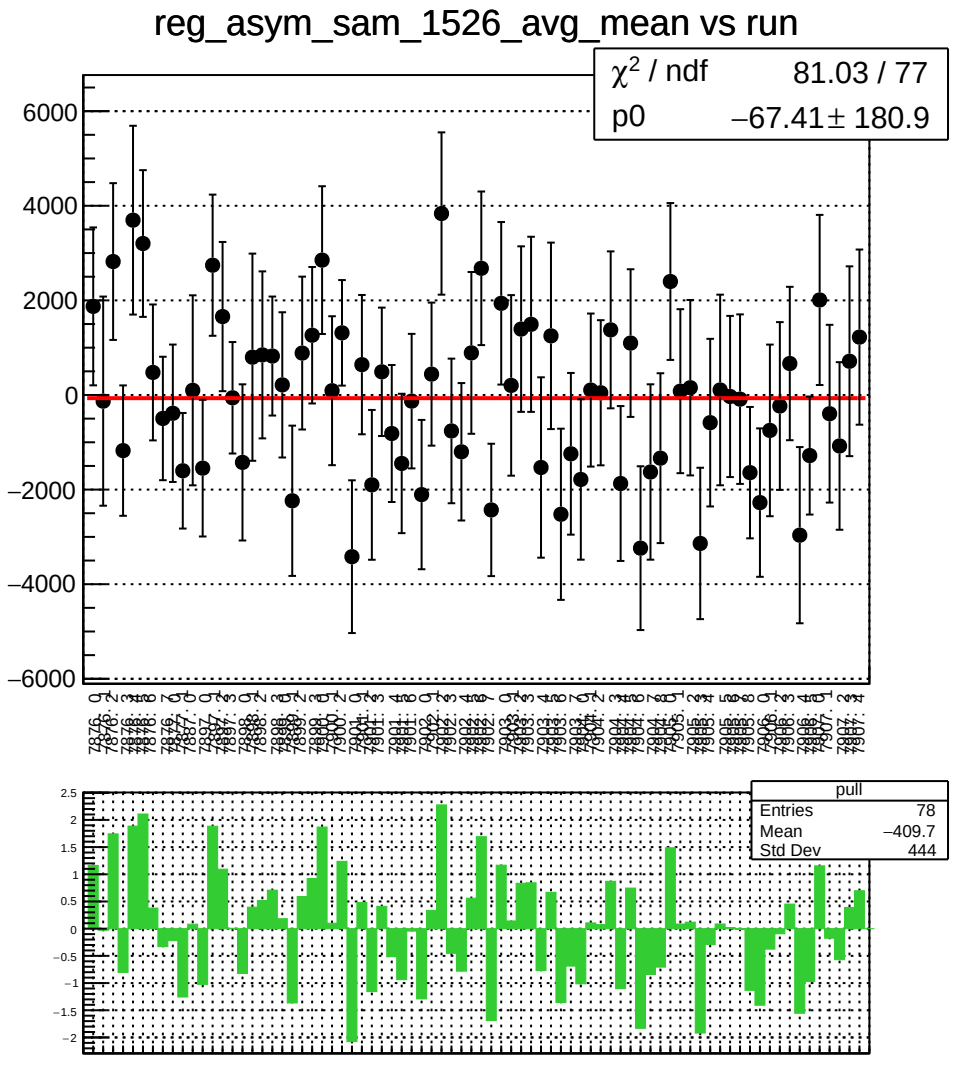

pull1D
Entries 78
Mean 0.01198
Std Dev 0.9826
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

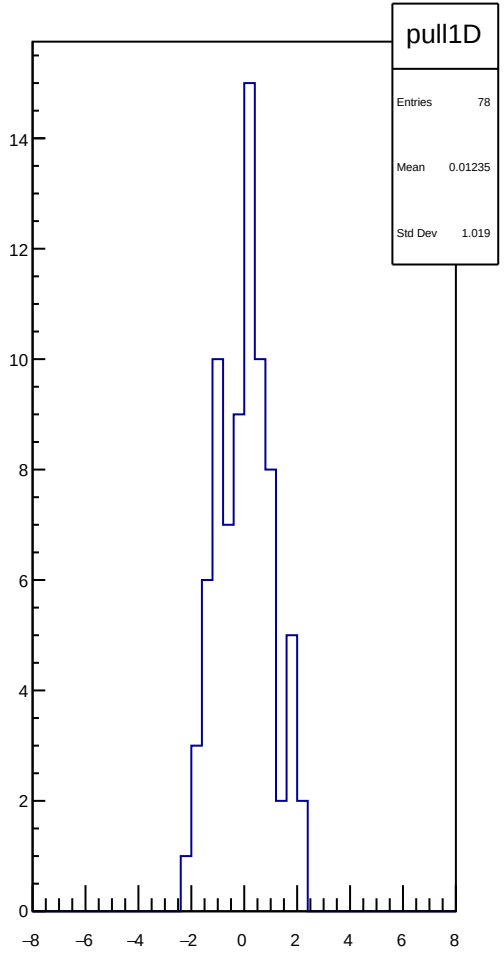

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 1.281e+04 / 77
p0 2816 ± 2.297
3600
3400
3200
3000
2800
2600
2400

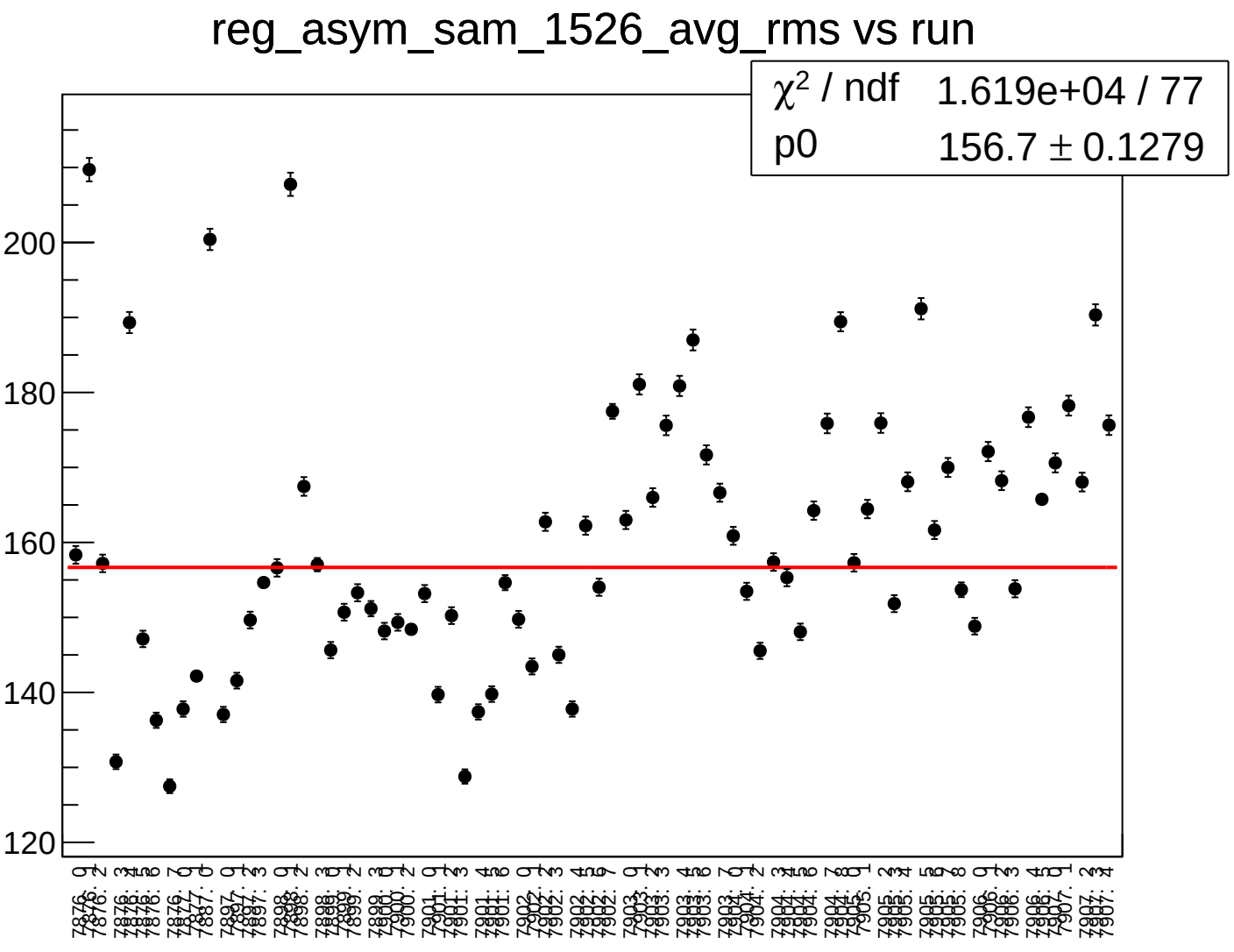

asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 76.68 / 77
p0 4053 ± 3260
100
50
0
−50
−100
pull
Entries 78
Mean 38.69
Std Dev 77.55
2
1
0
−1
−2
−3

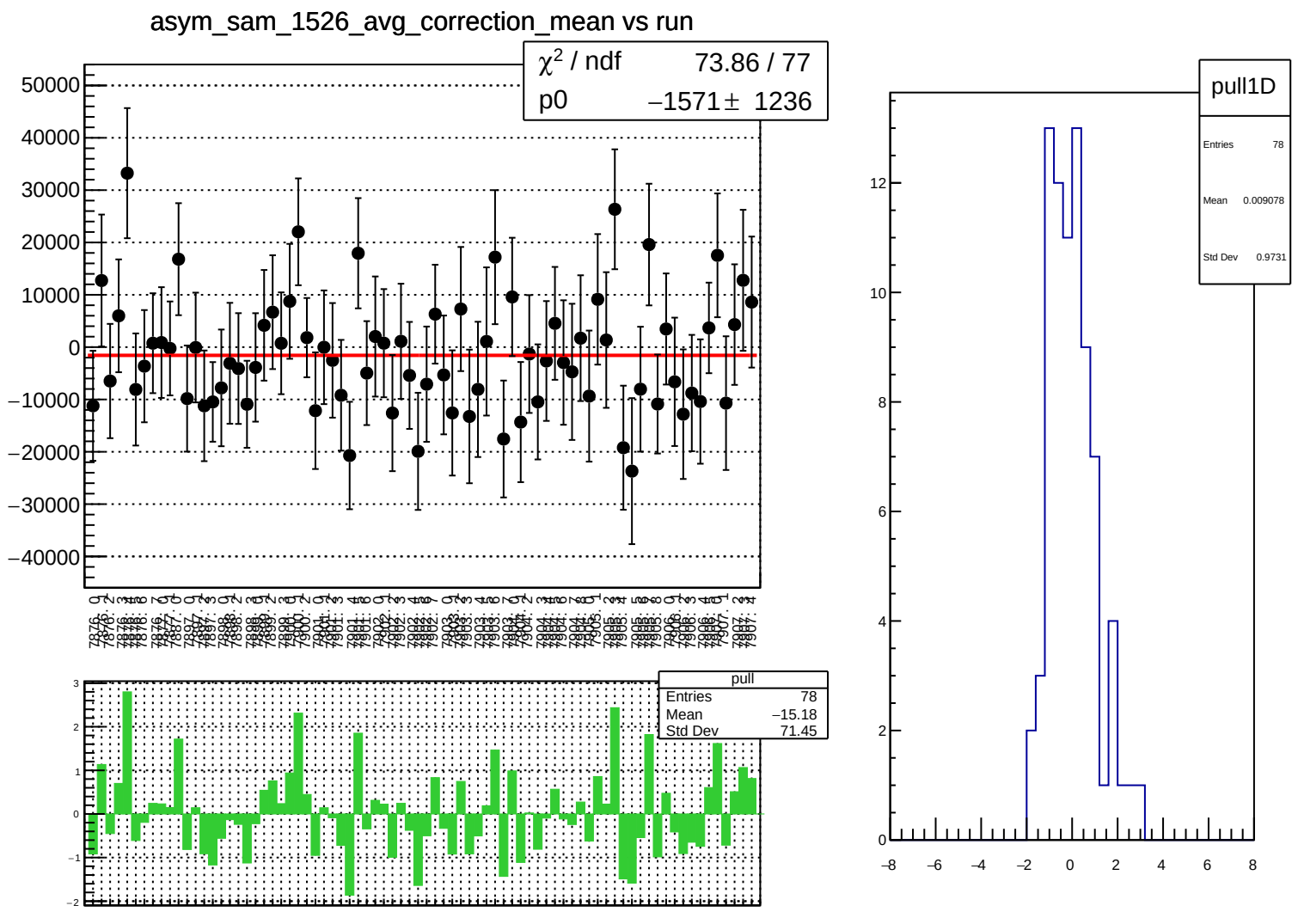

pull1D
Entries 78
Mean −0.01247
Std Dev 0.9914
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

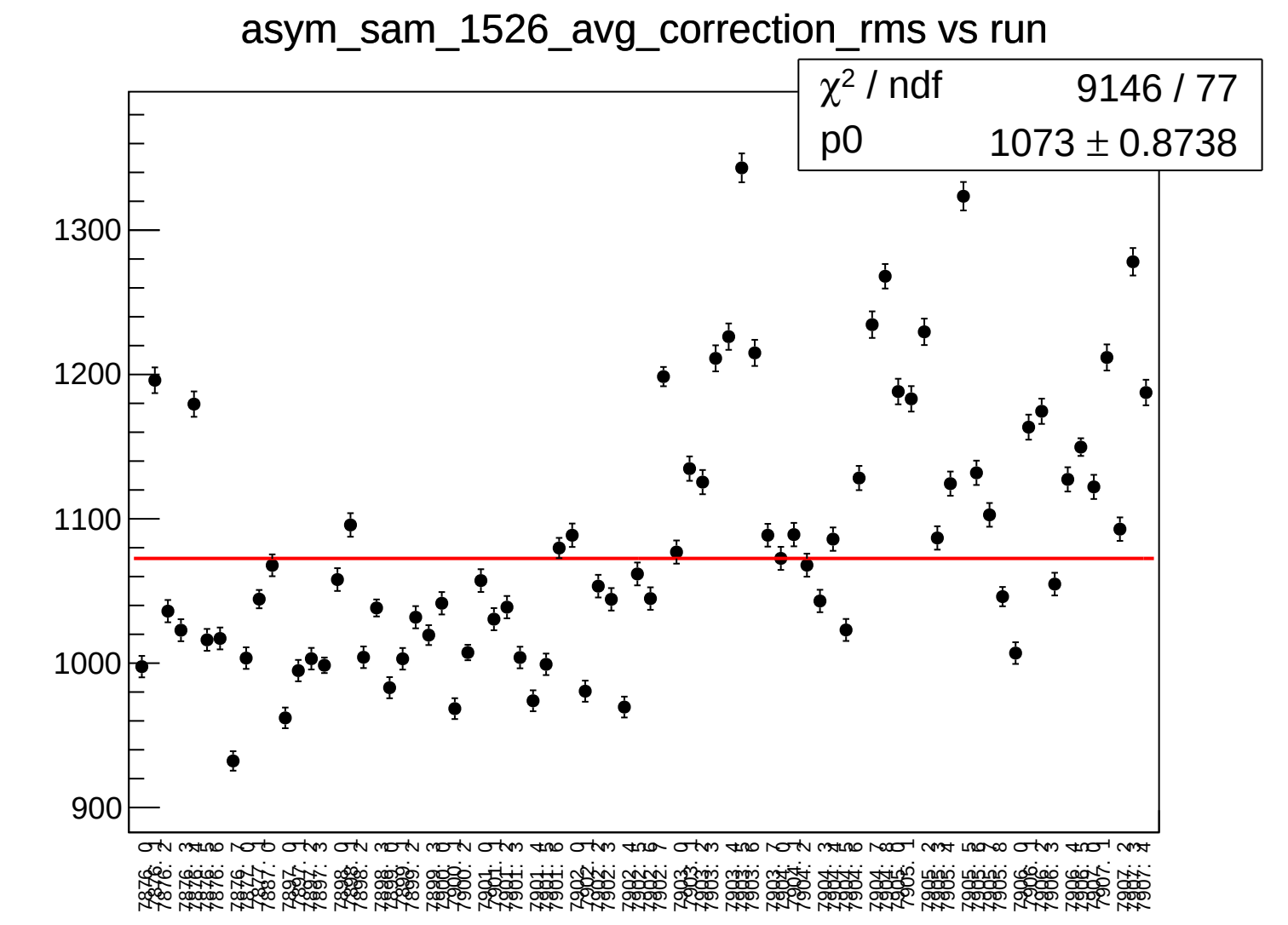

asym_sam_3748_avg_rms vs run
χ² / ndf 1.274e+04 / 77
p0 2826 ± 2.305
3600
3400
3200
3000
2800
2600
2400

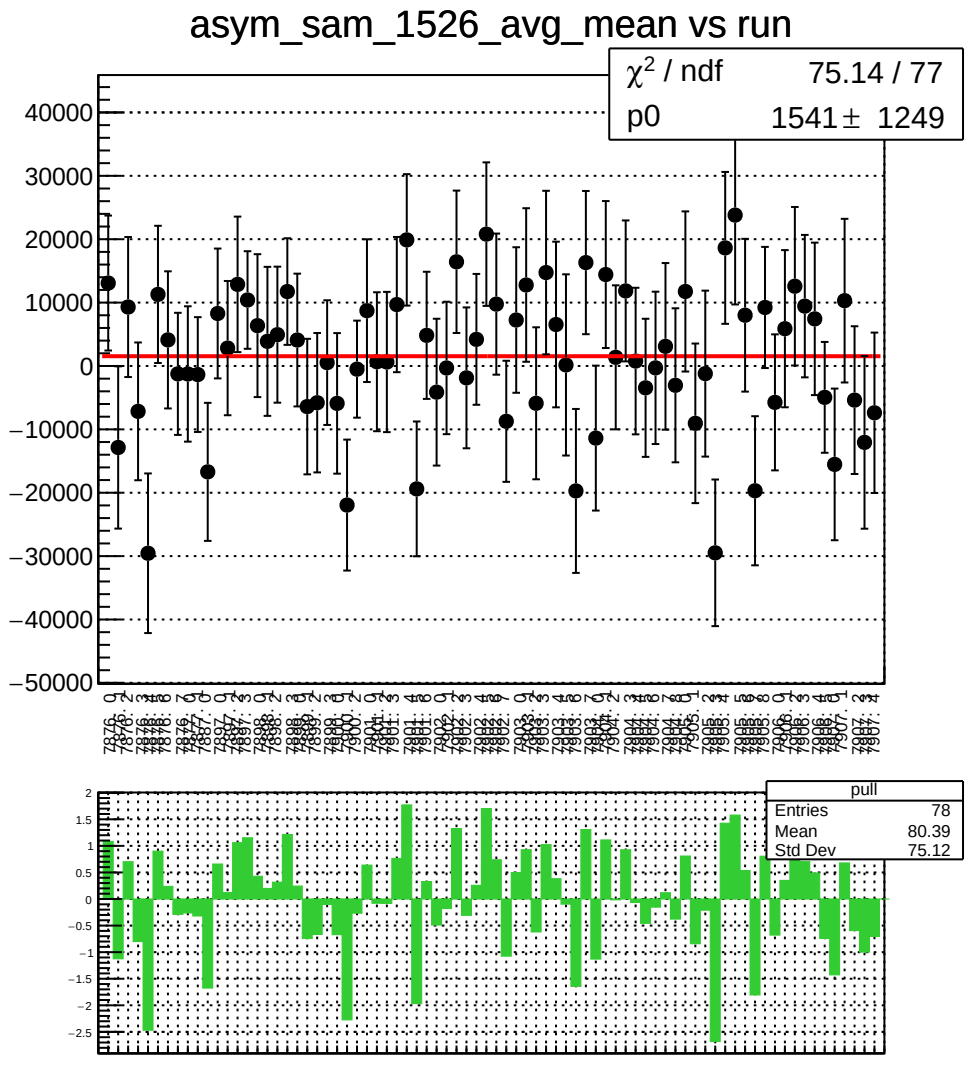

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 81.03 / 77
p0 −67.41± 180.9
pull
Entries 78
Mean −409.7
Std Dev 444

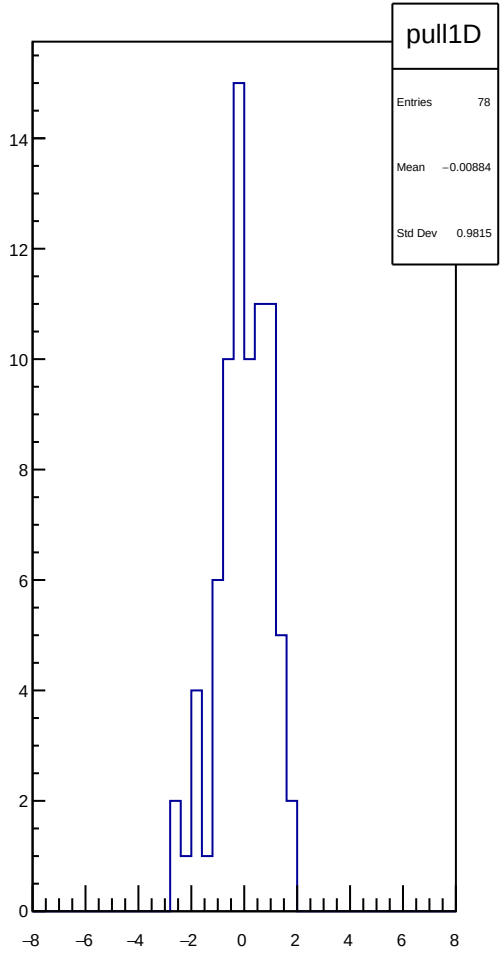

pull1D
Entries 78
Mean 0.01235
Std Dev 1.019

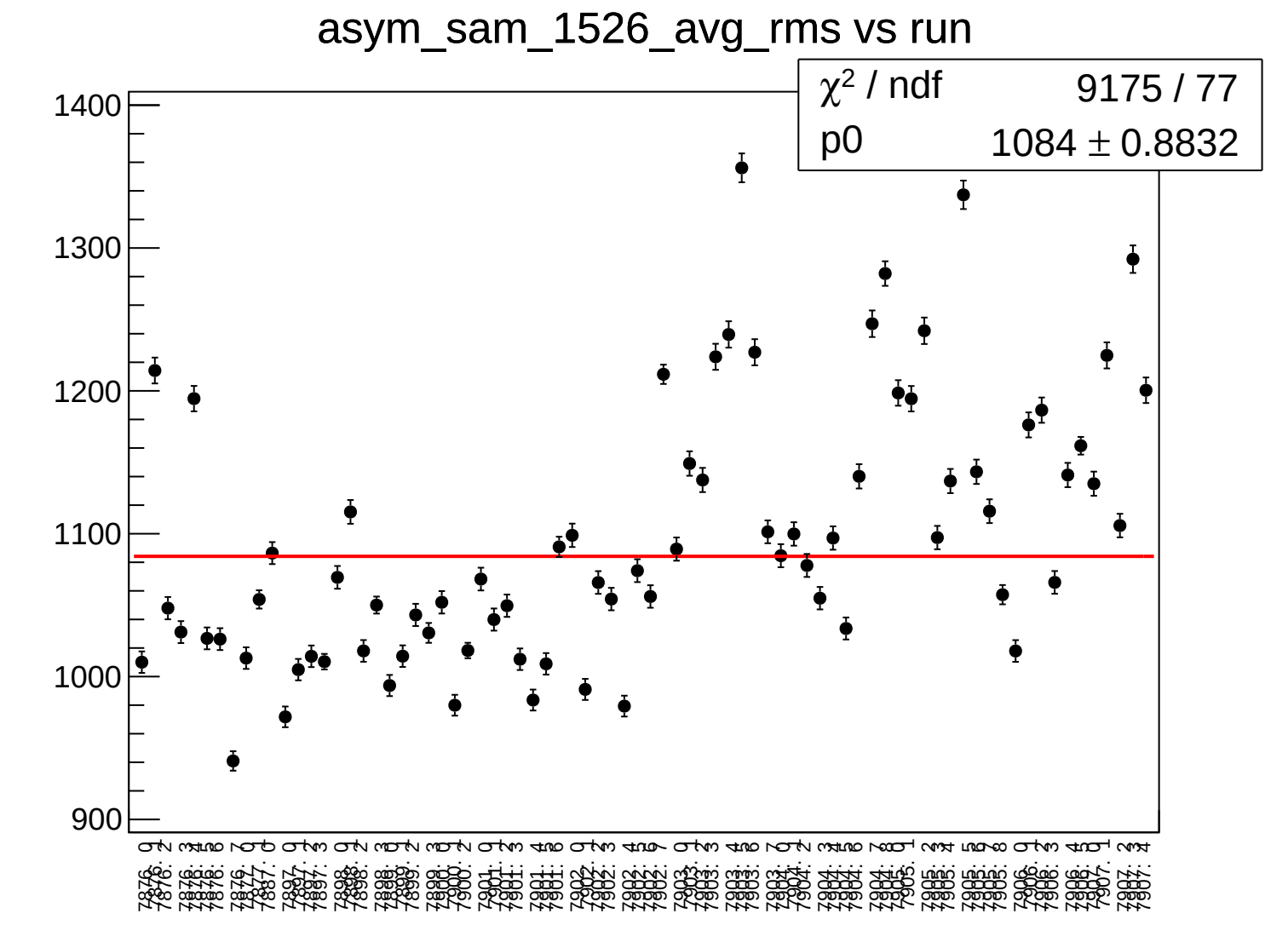

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 1.619e+04 / 77
p0 156.7 ± 0.1279
200
180
160
140
120

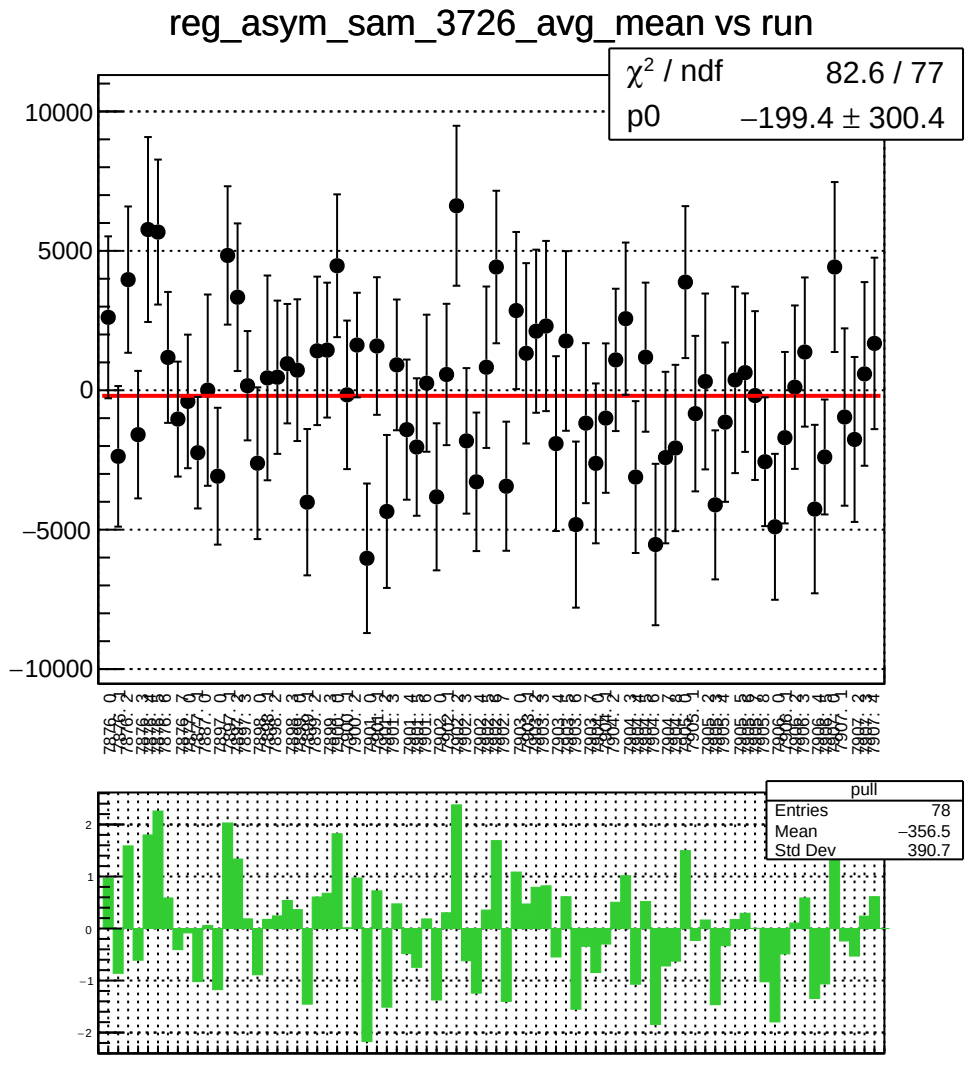

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 73.86 / 77
p0 −1571 ± 1236
pull
Entries 78
Mean −15.18
Std Dev 71.45
pull1D
Entries 78
Mean 0.009078
Std Dev 0.9731

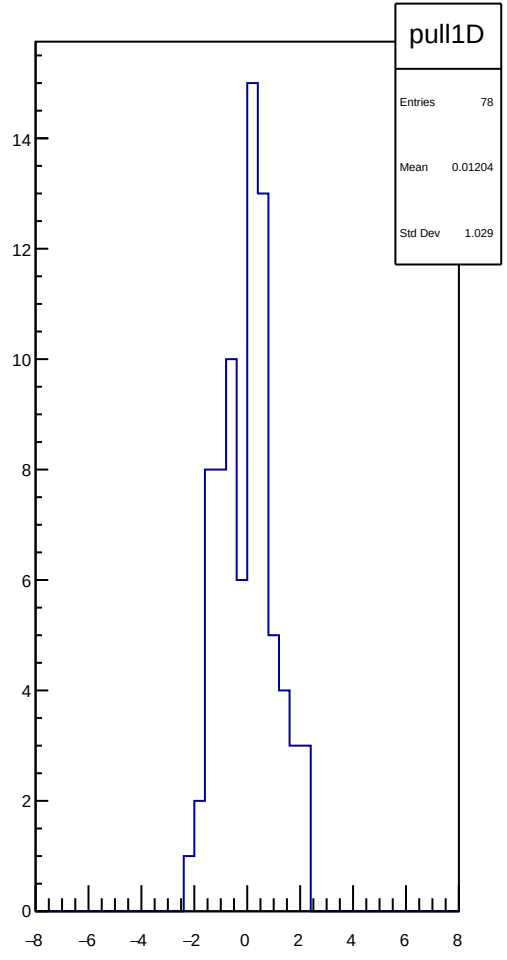

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 9146 / 77
p0 1073 ± 0.8738
1300
1200
1100
1000
900

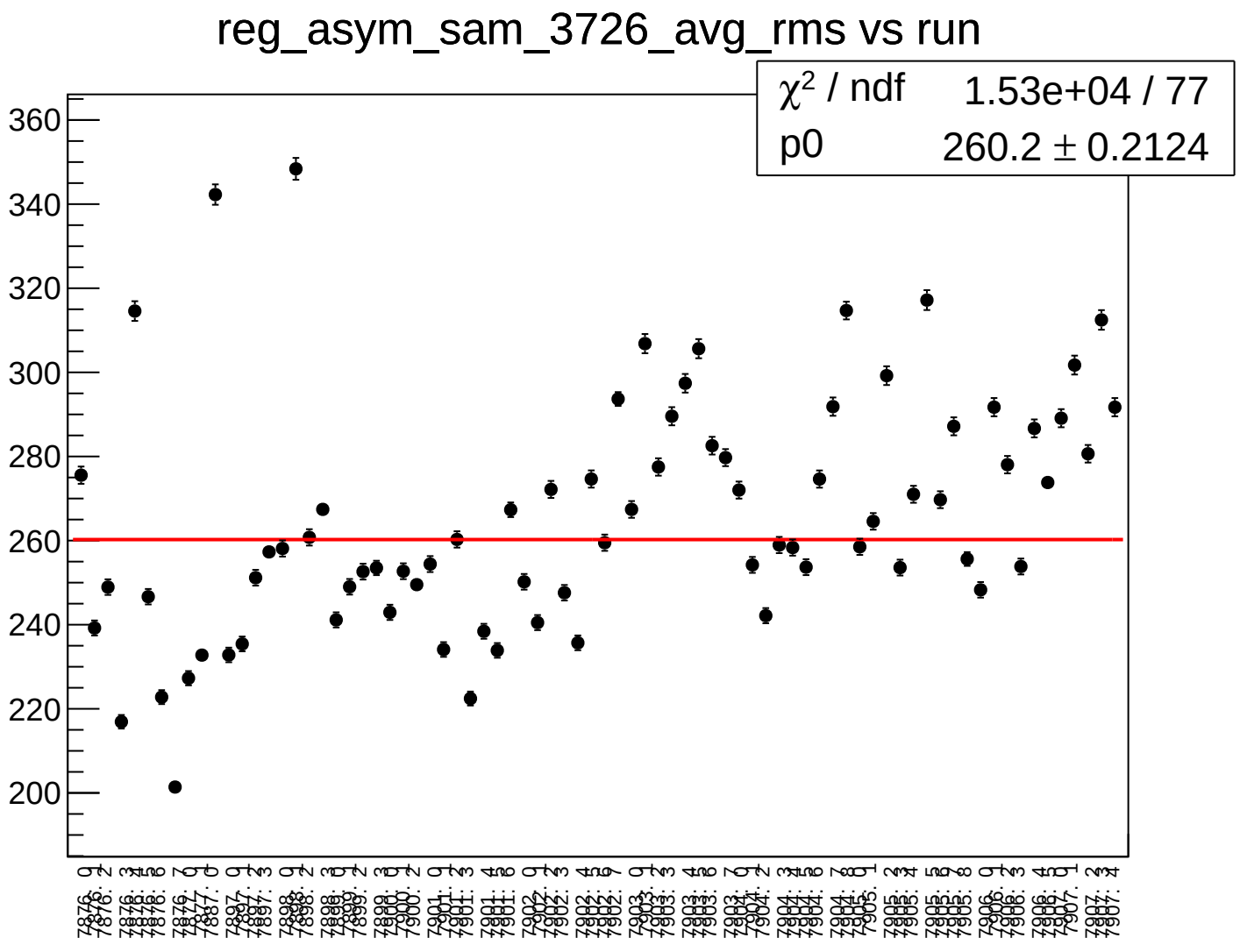

asym_sam_1526_avg_mean vs run
χ² / ndf 75.14 / 77
p0 1541 ± 1249
pull
Entries 78
Mean 80.39
Std Dev 75.12

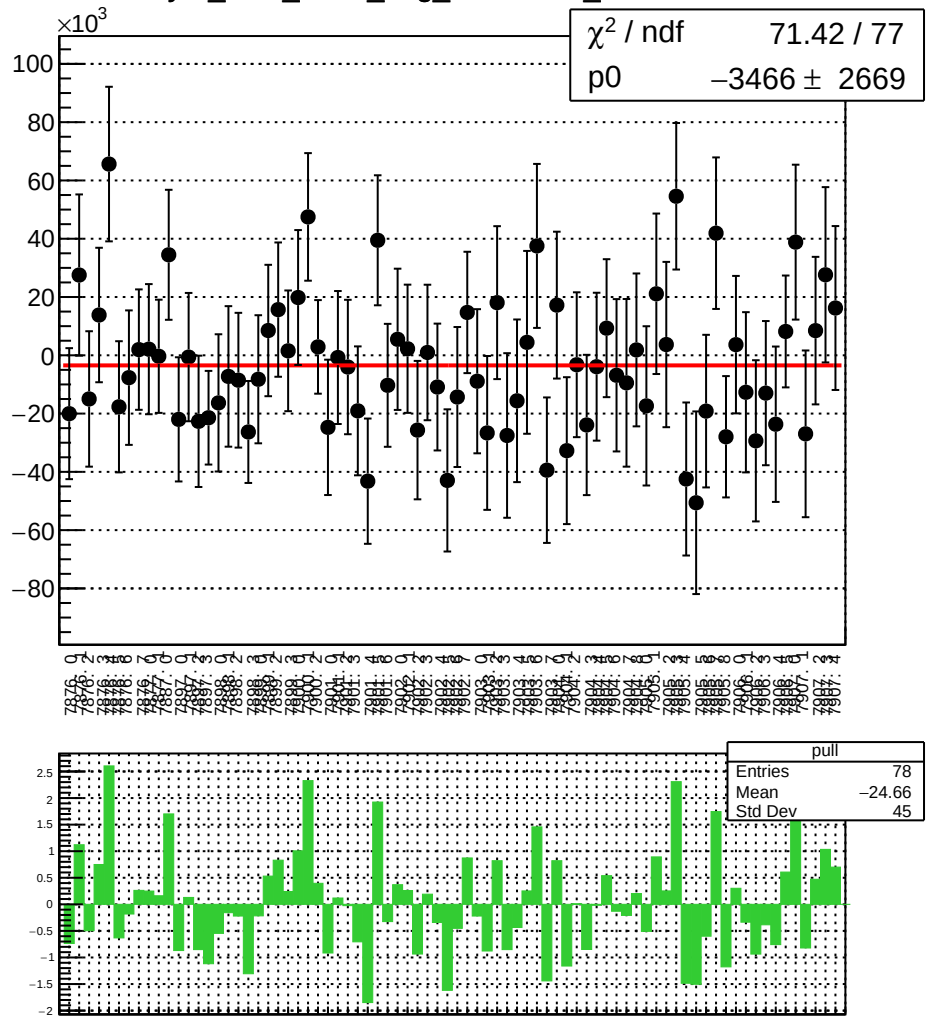

pull1D
Entries 78
Mean −0.00884
Std Dev 0.9815

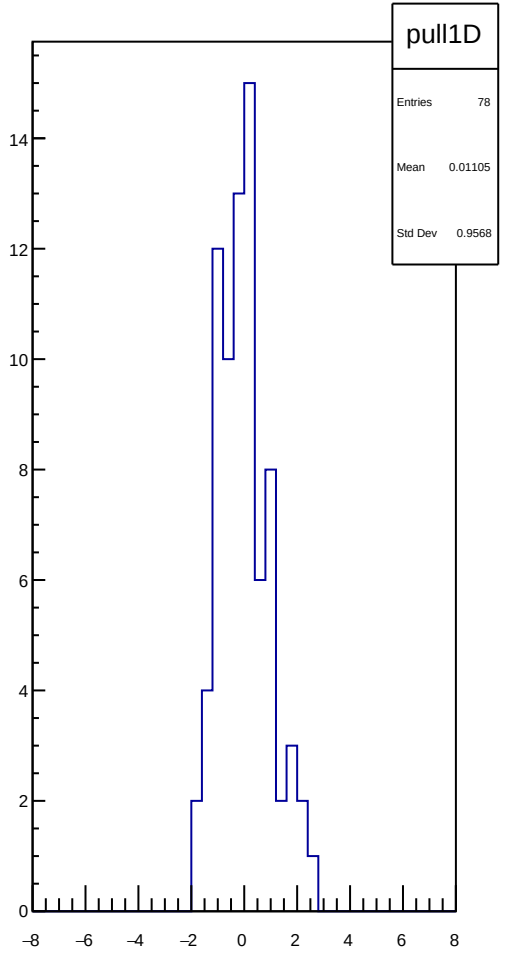

asym_sam_1526_avg_rms vs run
χ^2 / ndf 9175 / 77
p0 1084 ± 0.8832
1400
1300
1200
1100
1000
900

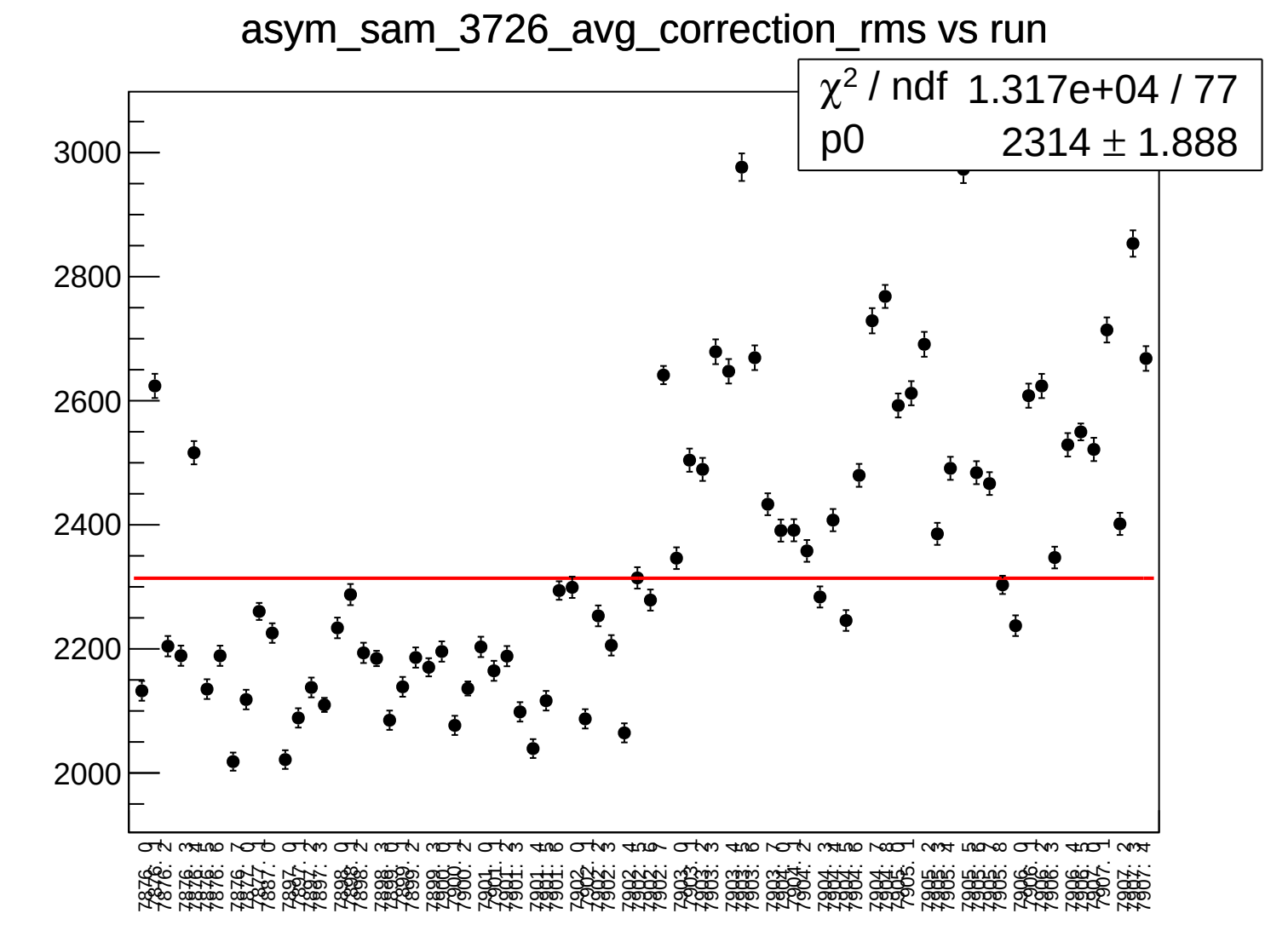

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 82.6 / 77
p0 −199.4 ± 300.4
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −356.5
Std Dev 390.7
2
1
0
−1
−2

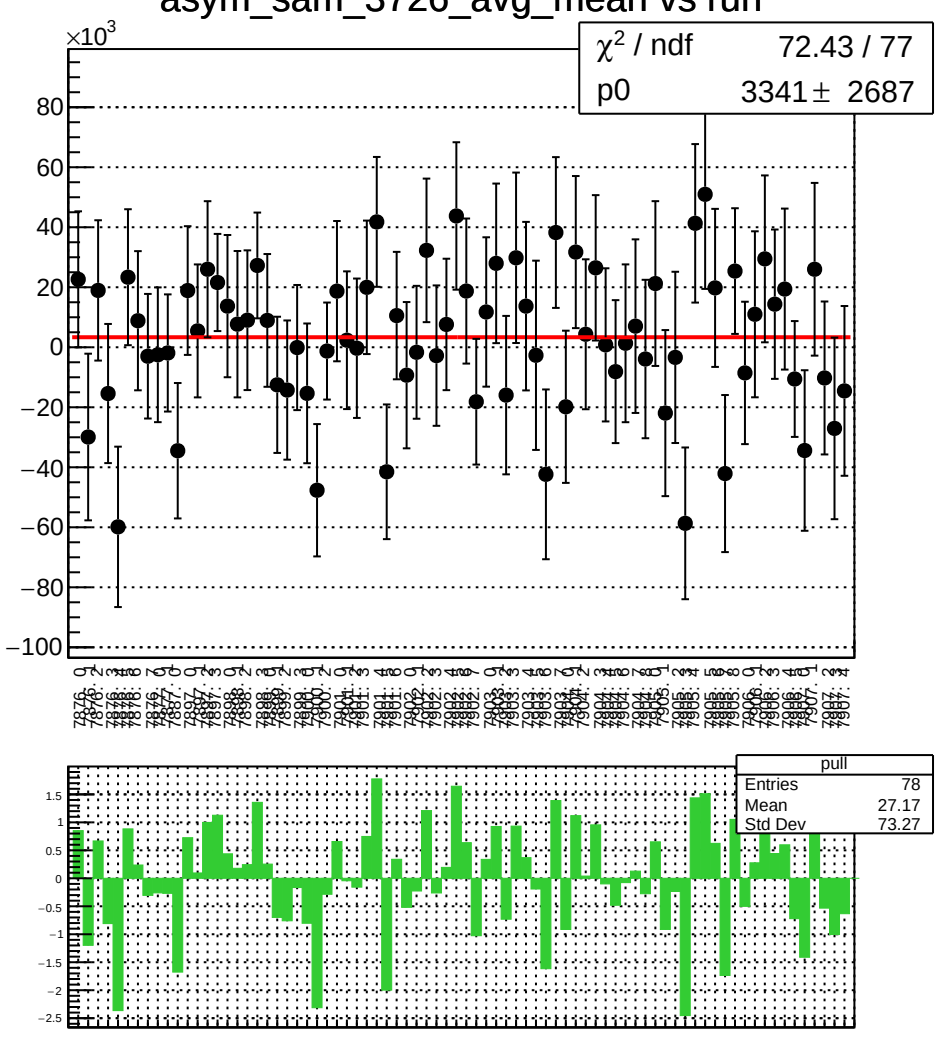

pull1D
Entries 78
Mean 0.01204
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

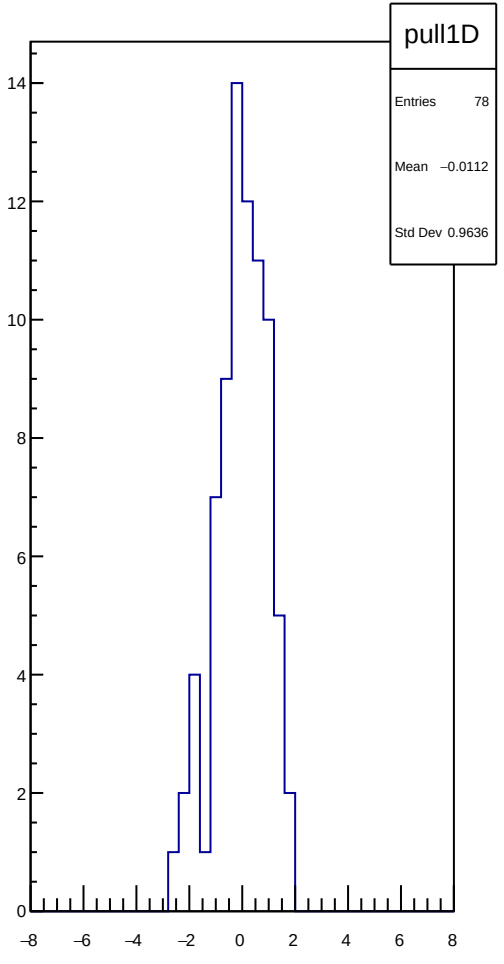

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 1.53e+04 / 77
p0 260.2 ± 0.2124
360
340
320
300
280
260
240
220
200

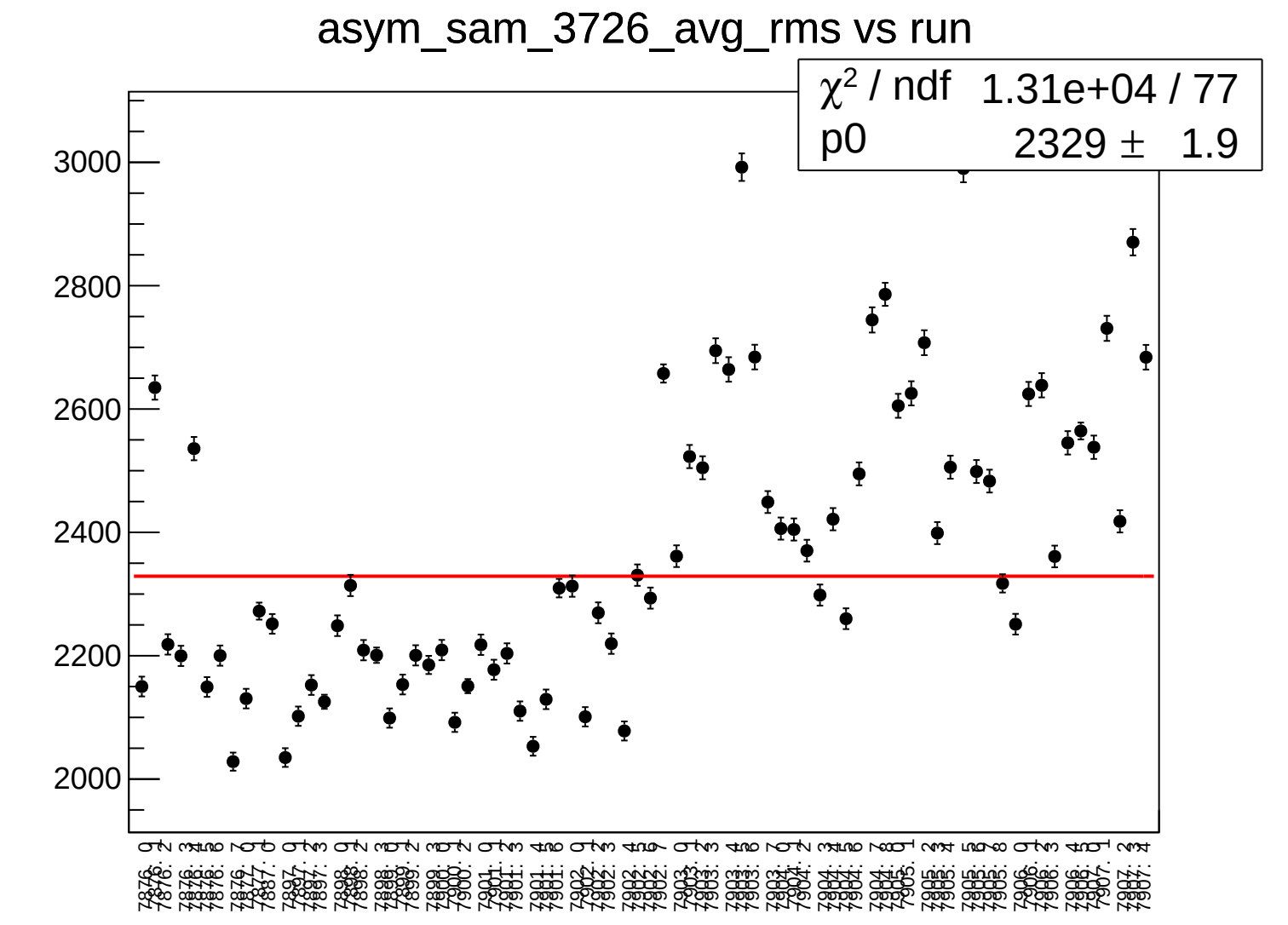

asym_sam_3726_avg_correction_mean vs run
×10^3
χ² / ndf 71.42 / 77
p0 −3466 ± 2669
pull
Entries 78
Mean −24.66
Std Dev 45

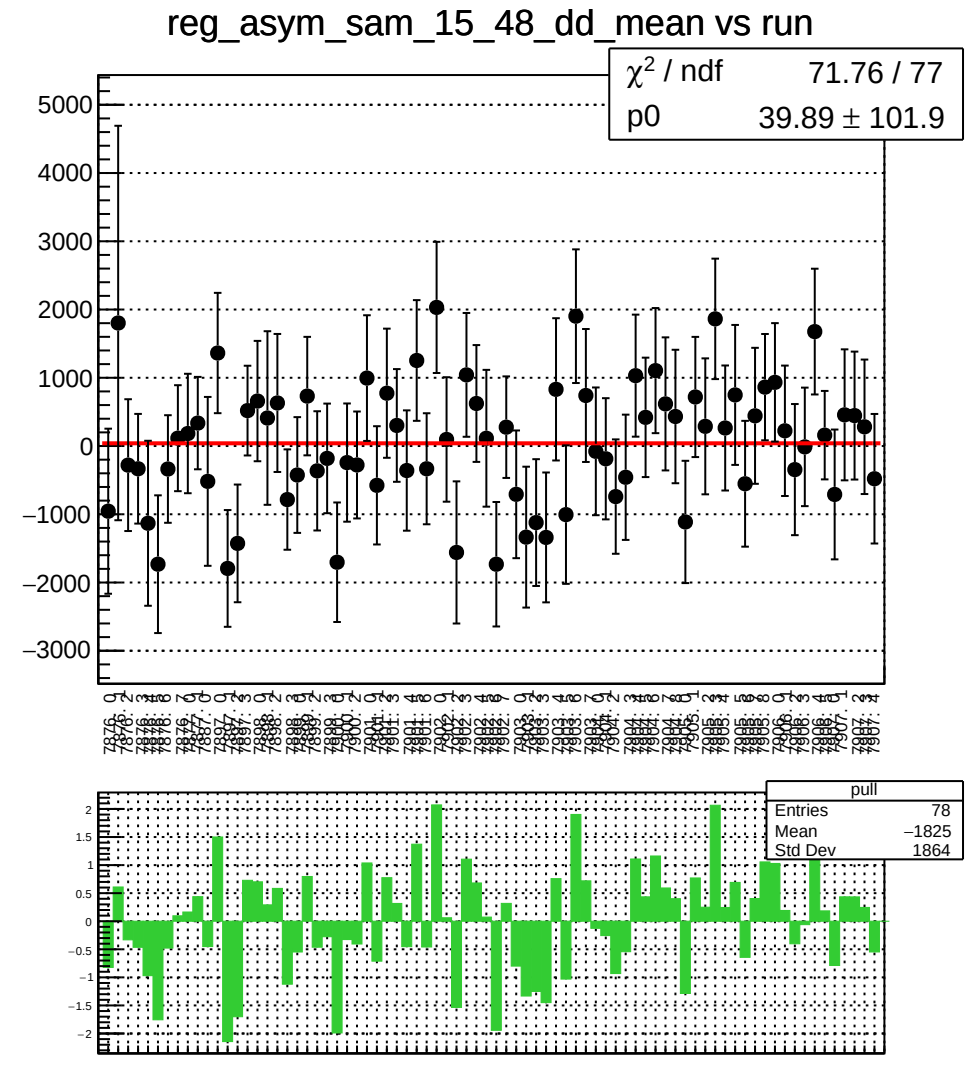

pull1D
Entries 78
Mean 0.01105
Std Dev 0.9568

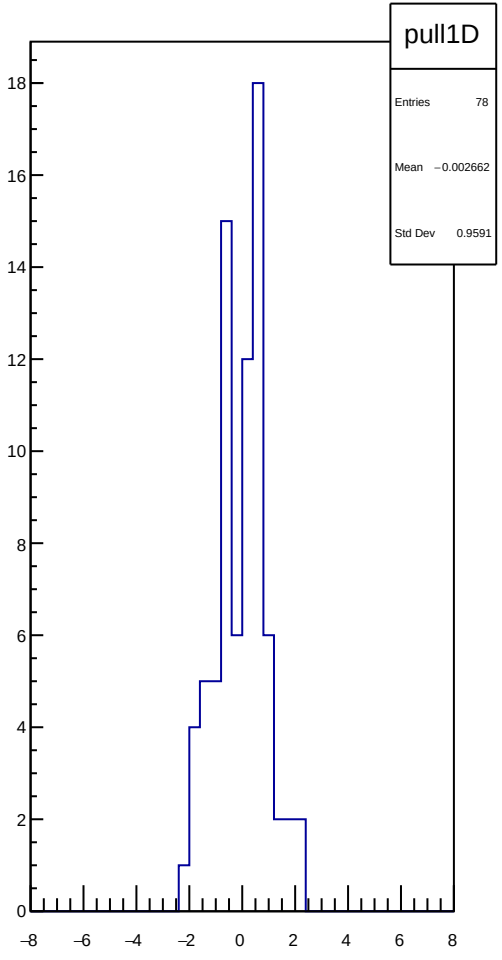

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 1.317e+04 / 77
p0 2314 ± 1.888
3000
2800
2600
2400
2200
2000

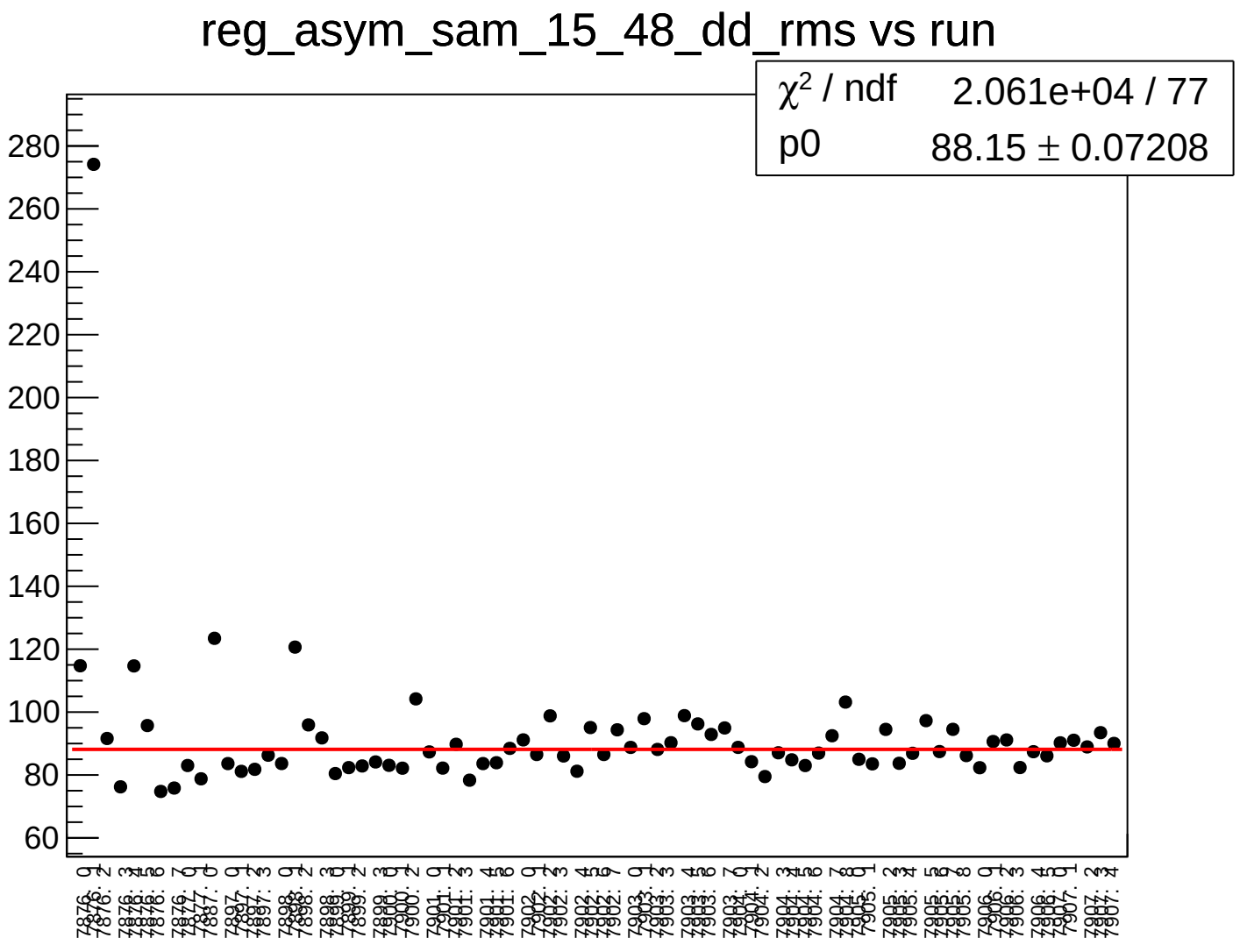

asym_sam_3726_avg_mean vs run
χ^2 / ndf 72.43 / 77
p0 3341 ± 2687
pull
Entries 78
Mean 27.17
Std Dev 73.27

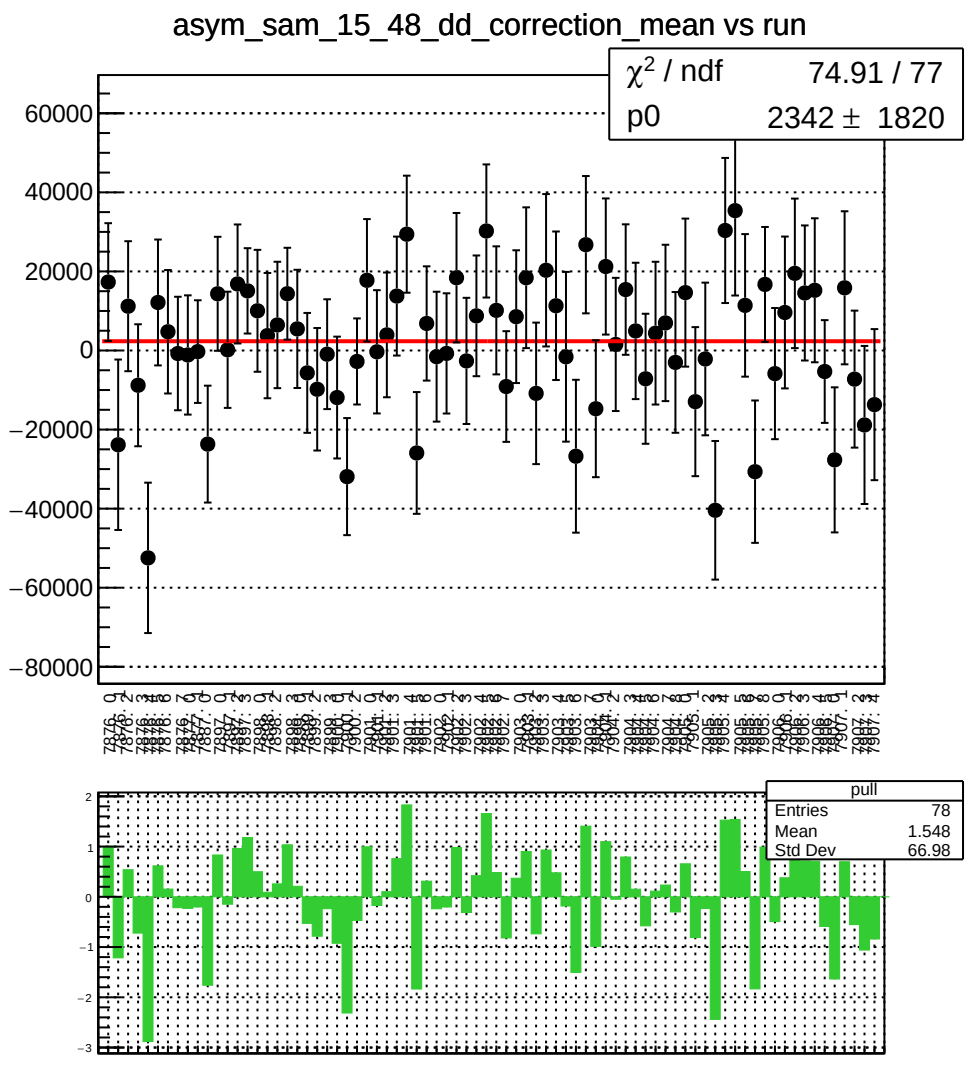

pull1D
Entries 78
Mean −0.0112
Std Dev 0.9636

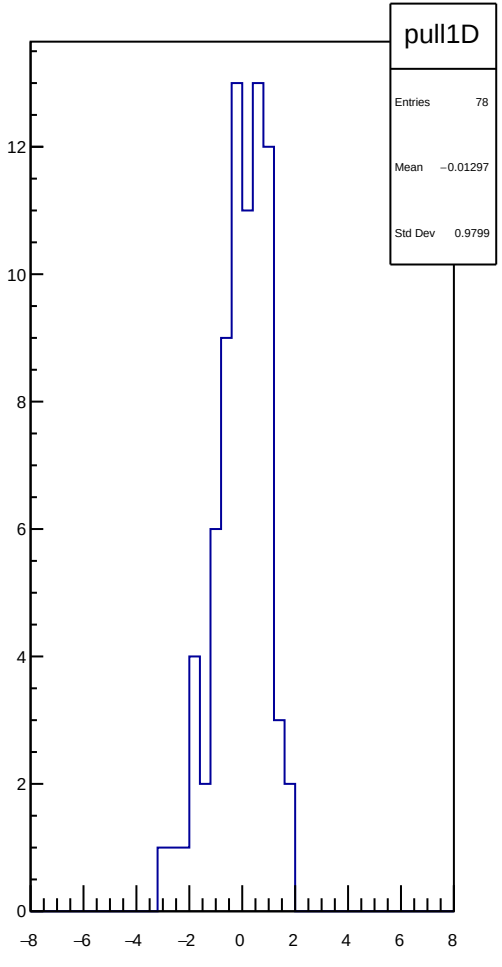

asym_sam_3726_avg_rms vs run
χ² / ndf 1.31e+04 / 77
p0 2329 ± 1.9
3000
2800
2600
2400
2200
2000

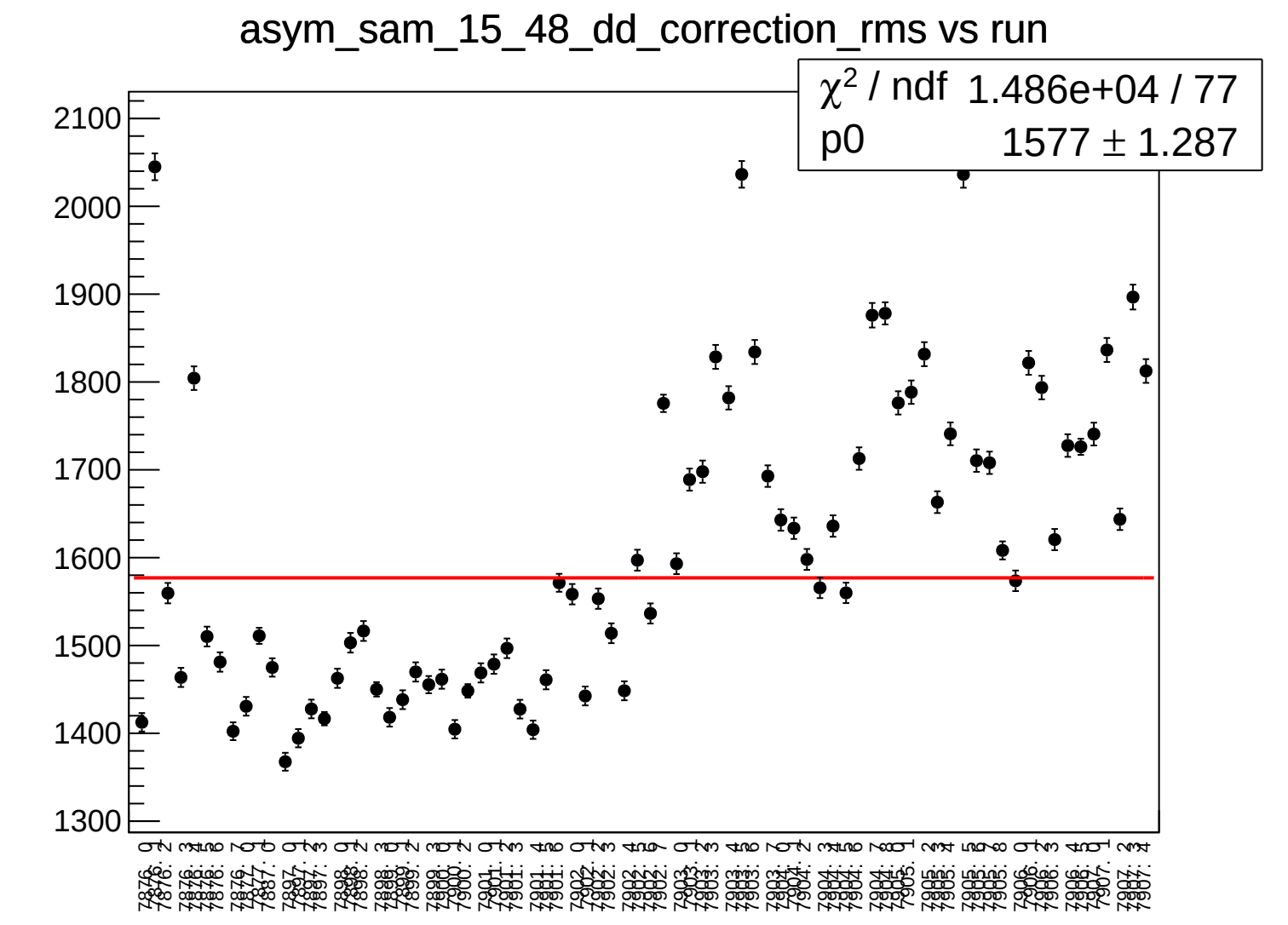

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 71.76 / 77
p0 39.89 ± 101.9
pull
Entries 78
Mean −1825
Std Dev 1864

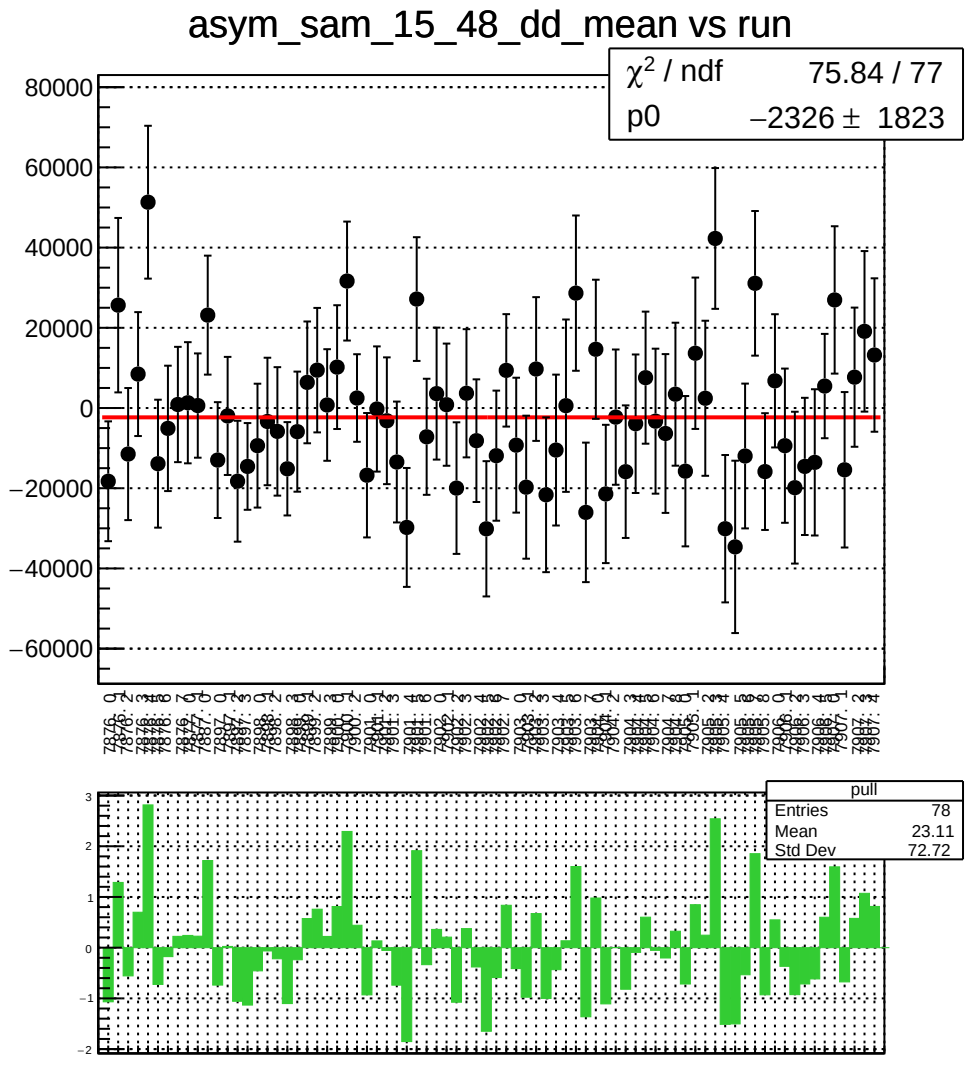

pull1D
Entries 78
Mean −0.002662
Std Dev 0.9591

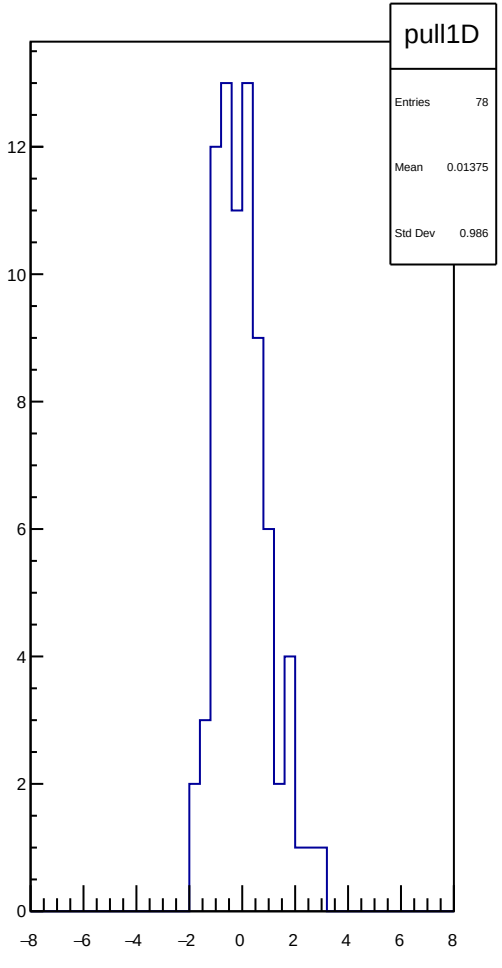

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.061e+04 / 77
p0 88.15 ± 0.07208
280
260
240
220
200
180
160
140
120
100
80
60

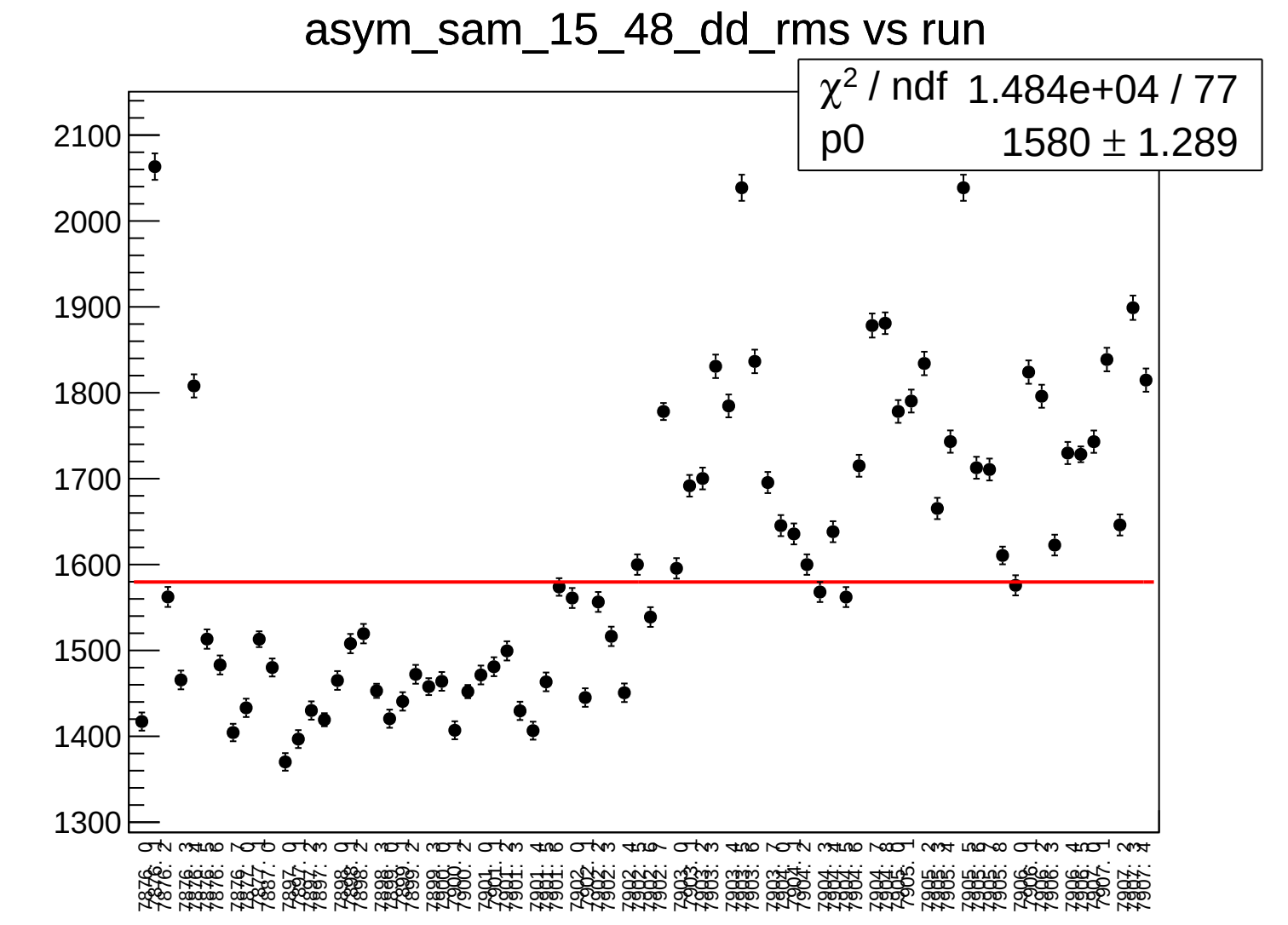

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 74.91 / 77
p0 2342 ± 1820
pull
Entries 78
Mean 1.548
Std Dev 66.98

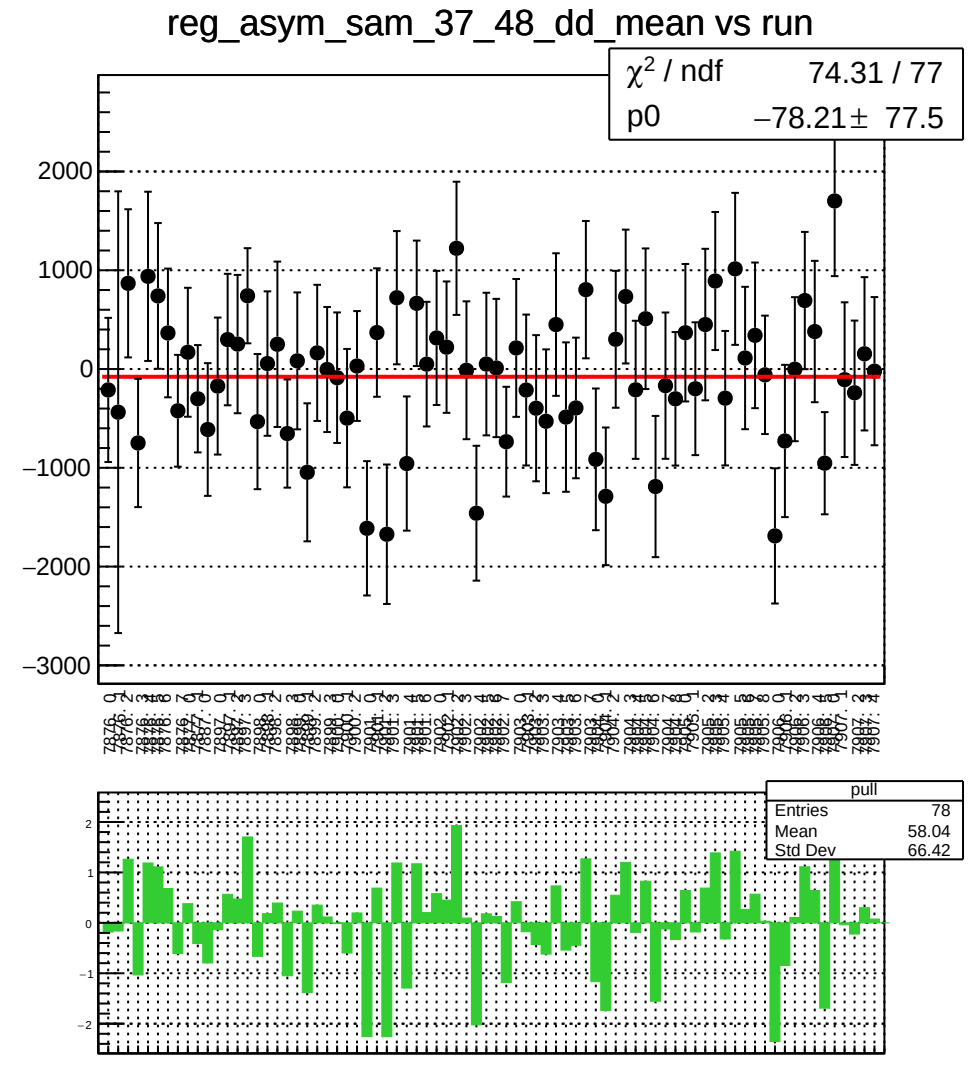

pull1D
Entries 78
Mean −0.01297
Std Dev 0.9799

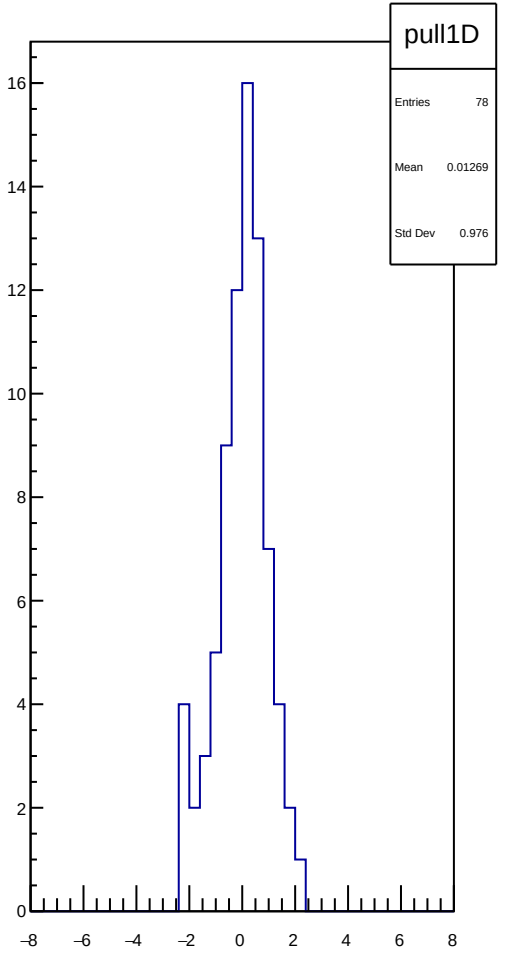

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 1.486e+04 / 77
p0 1577 ± 1.287
2100
2000
1900
1800
1700
1600
1500
1400
1300

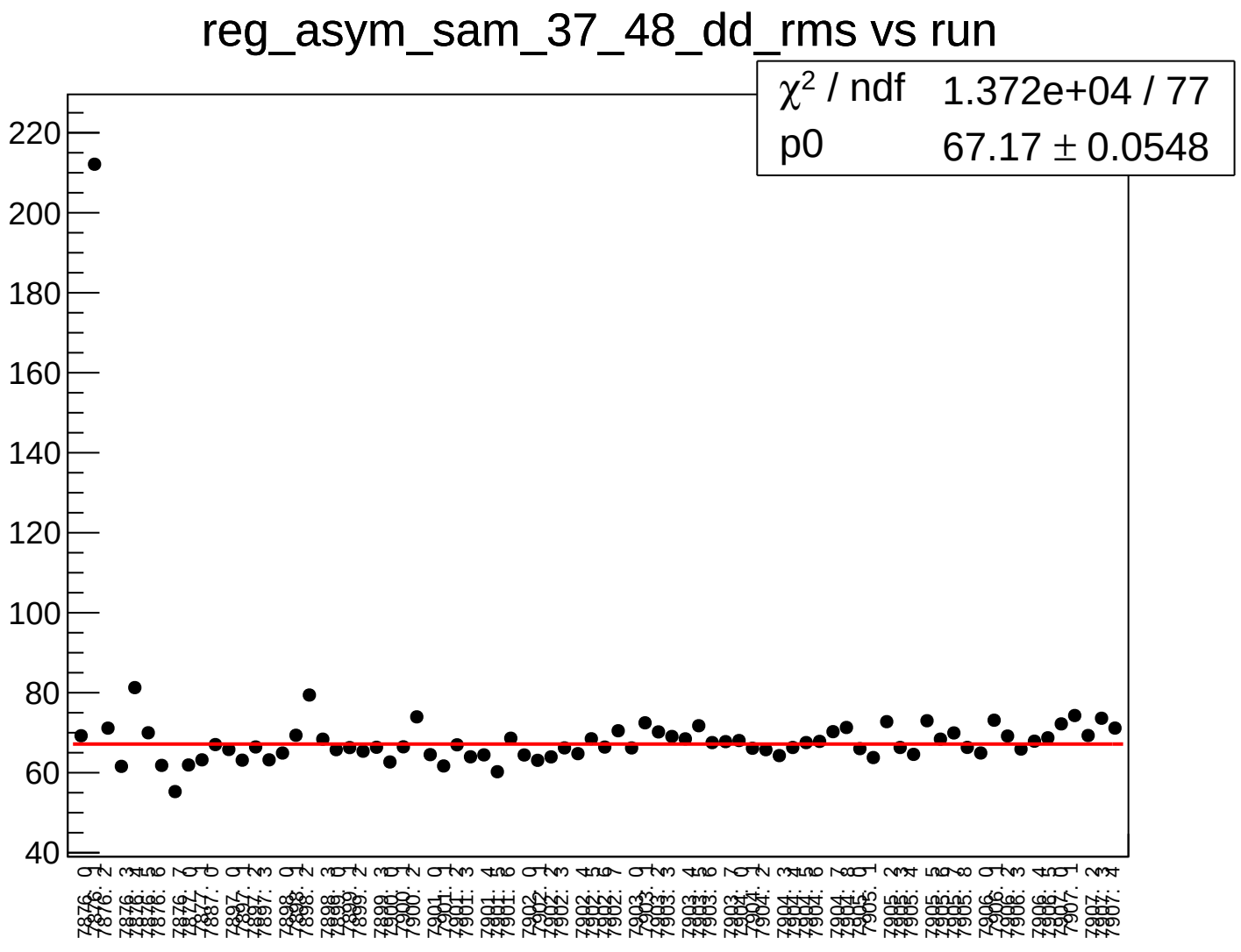

asym_sam_15_48_dd_mean vs run
χ² / ndf 75.84 / 77
p0 −2326 ± 1823
pull
Entries 78
Mean 23.11
Std Dev 72.72

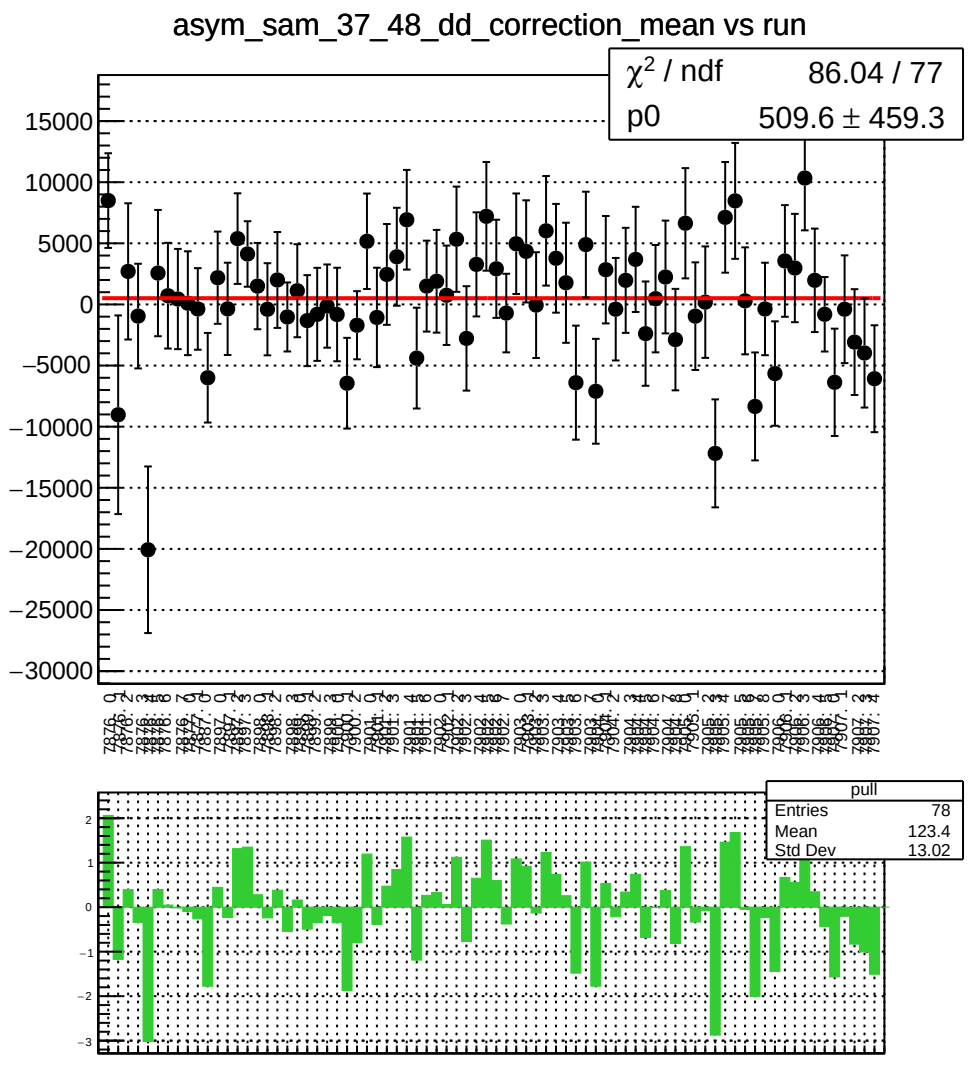

pull1D
Entries 78
Mean 0.01375
Std Dev 0.986

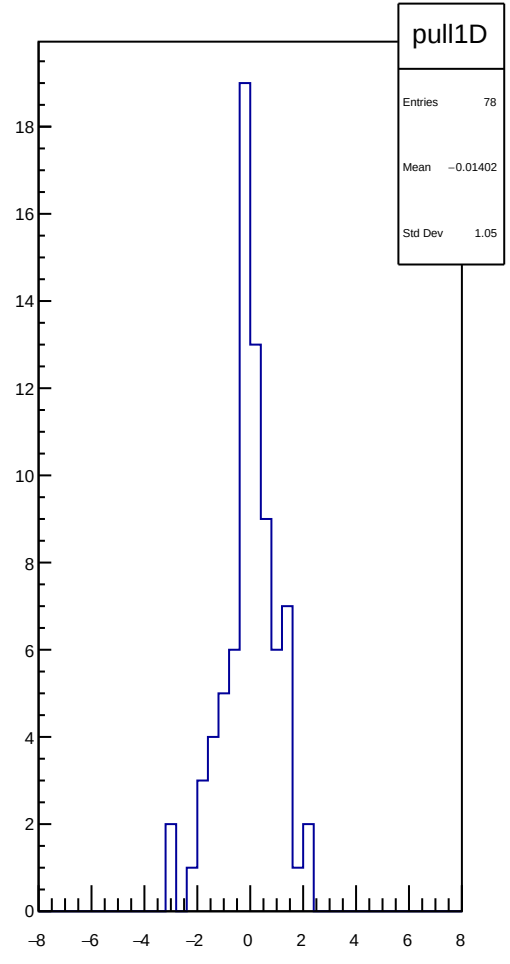

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.484e+04 / 77
p0 1580 ± 1.289
2100
2000
1900
1800
1700
1600
1500
1400
1300

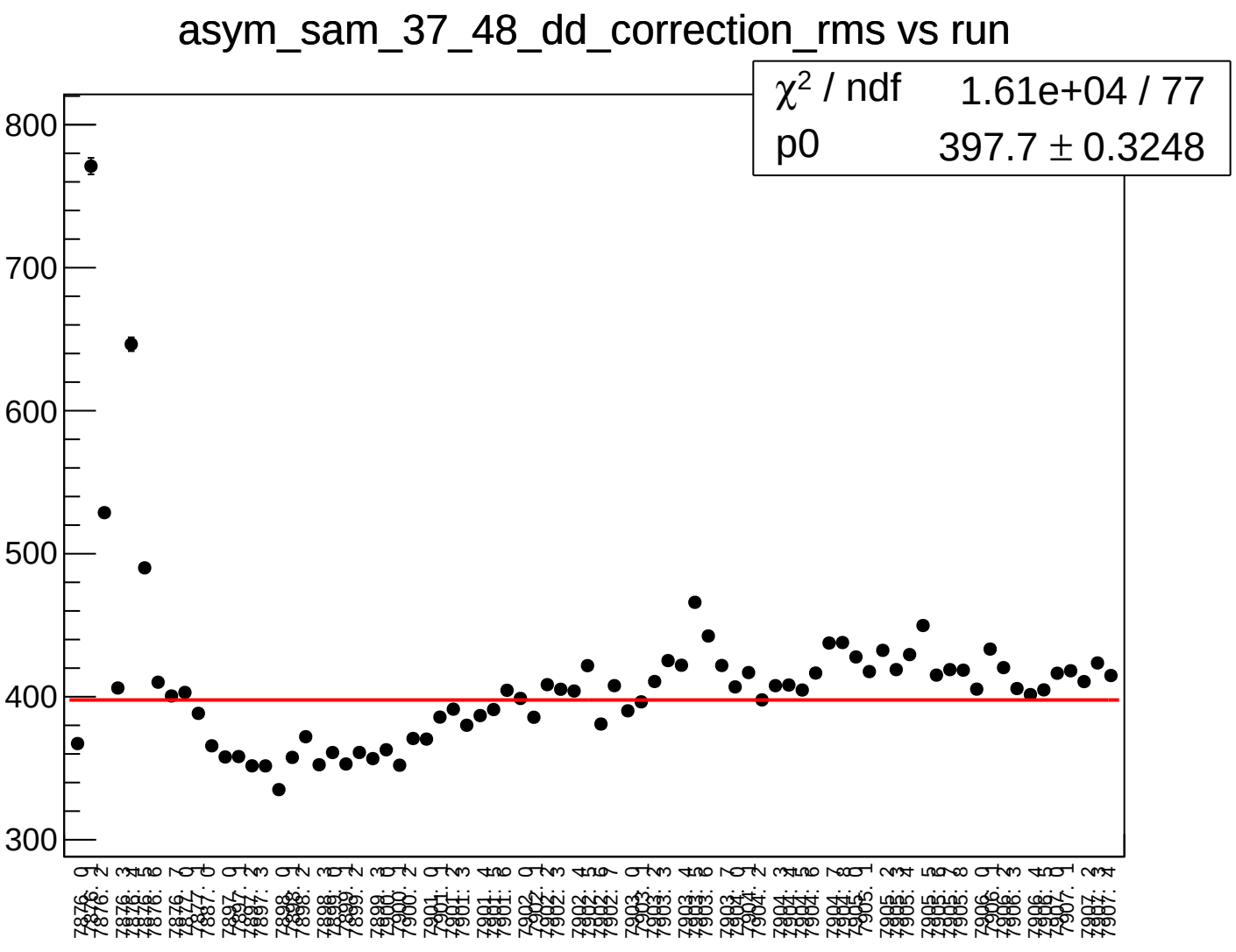

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 74.31 / 77
p0 −78.21± 77.5
2000
1000
0
−1000
−2000
−3000
pull
Entries 78
Mean 58.04
Std Dev 66.42
2
1
0
−1
−2

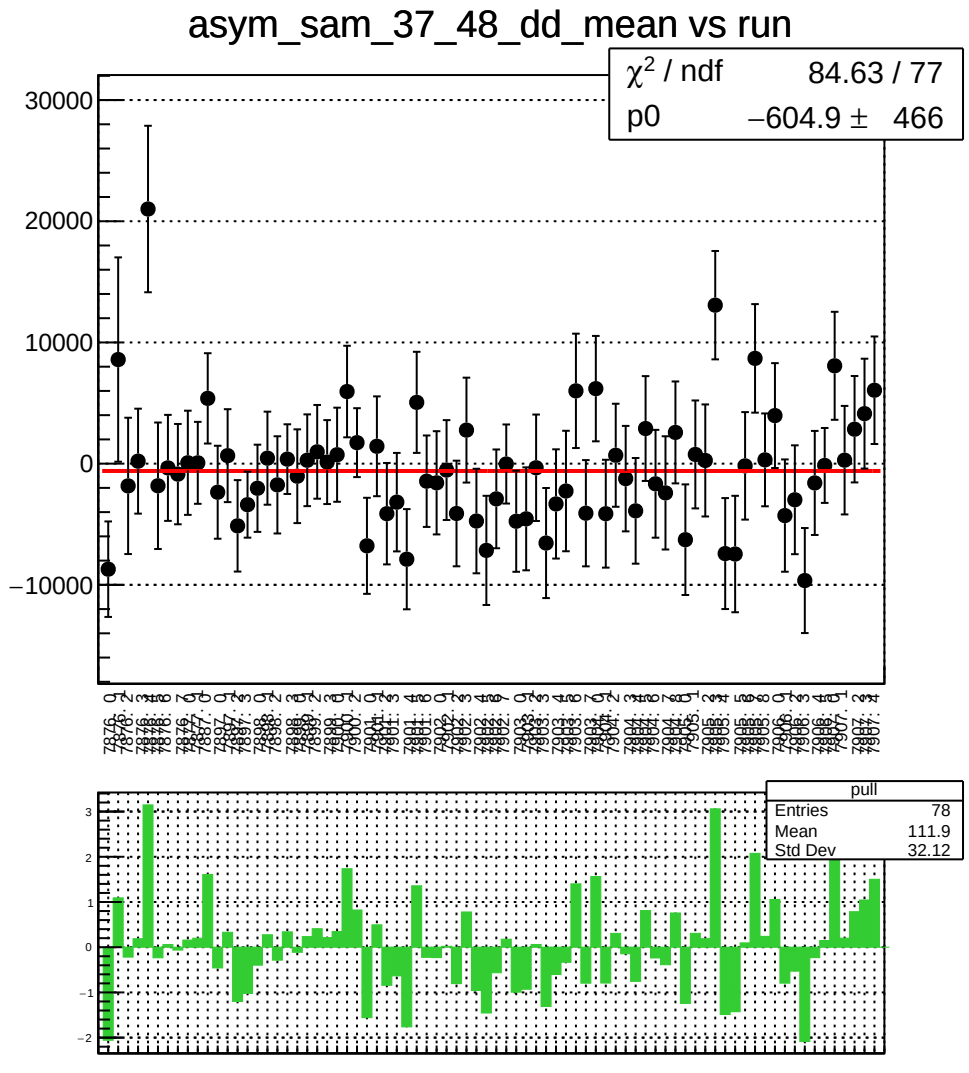

pull1D
Entries 78
Mean 0.01269
Std Dev 0.976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

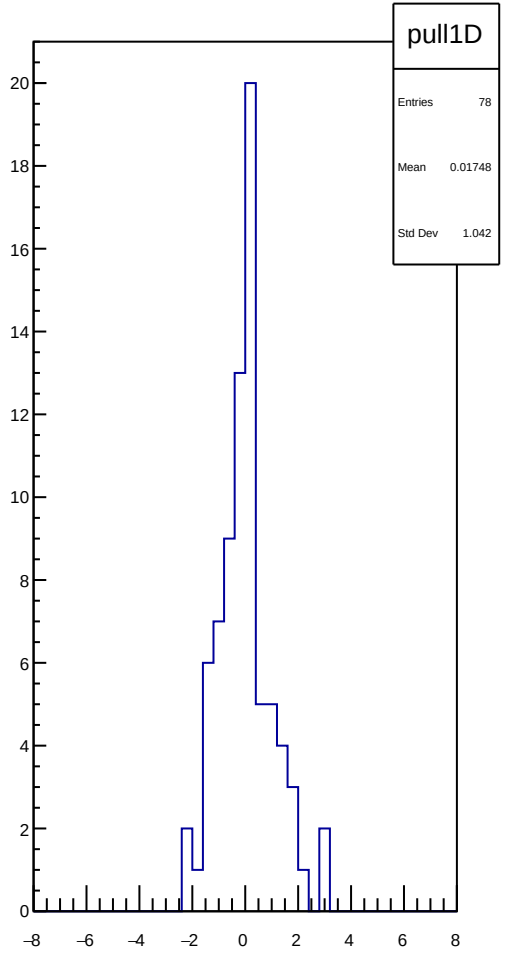

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.372e+04 / 77
p0 67.17 ± 0.0548
220
200
180
160
140
120
100
80
60
40

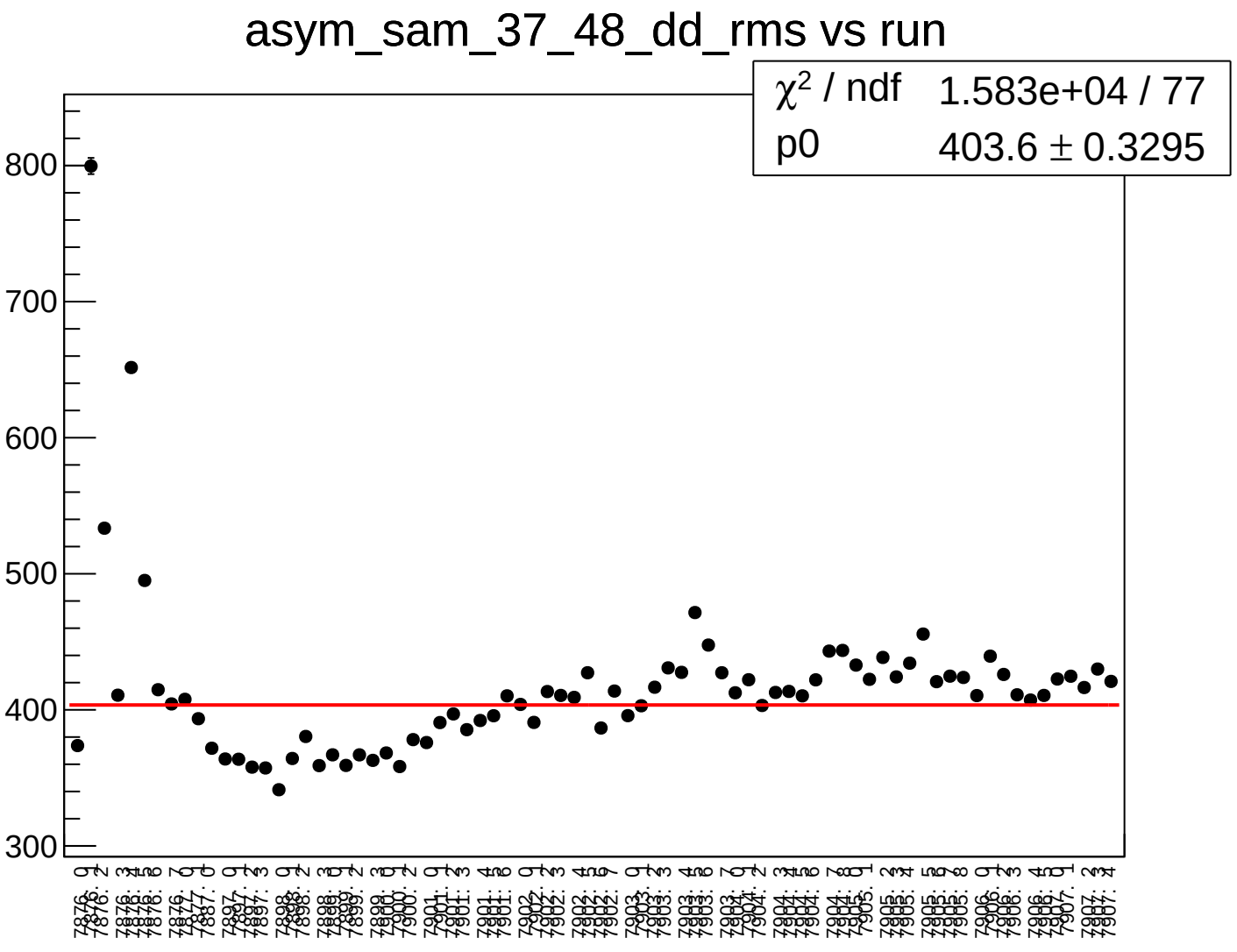

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 86.04 / 77
p0 509.6 ± 459.3
pull
Entries 78
Mean 123.4
Std Dev 13.02

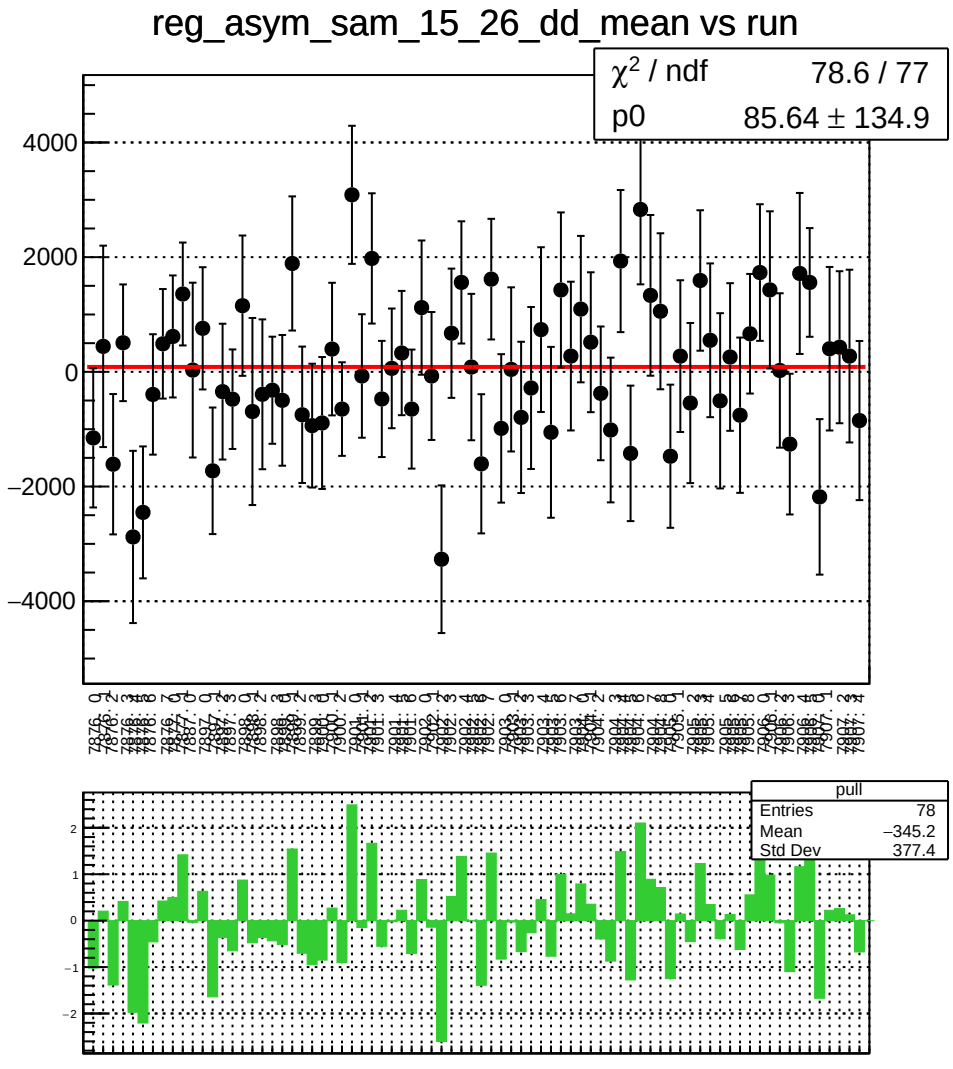

pull1D
Entries 78
Mean −0.01402
Std Dev 1.05

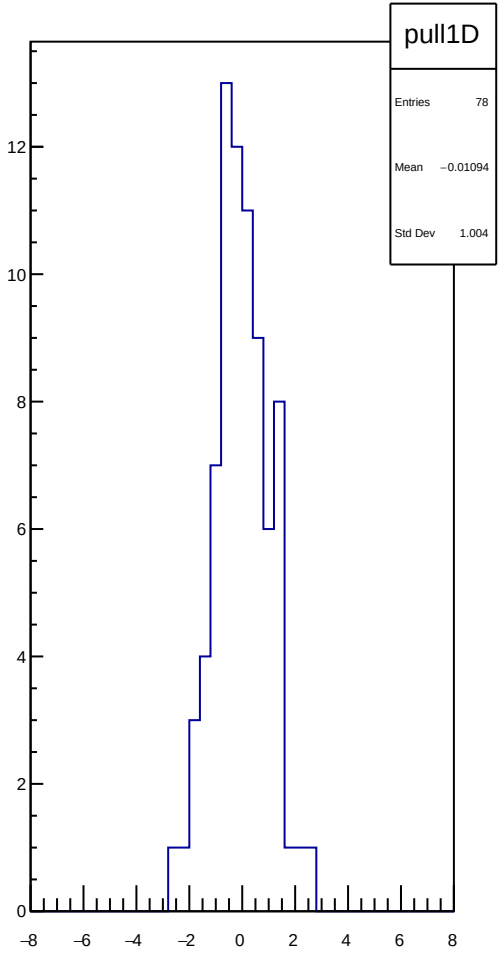

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 1.61e+04 / 77
p0 397.7 ± 0.3248
800
700
600
500
400
300

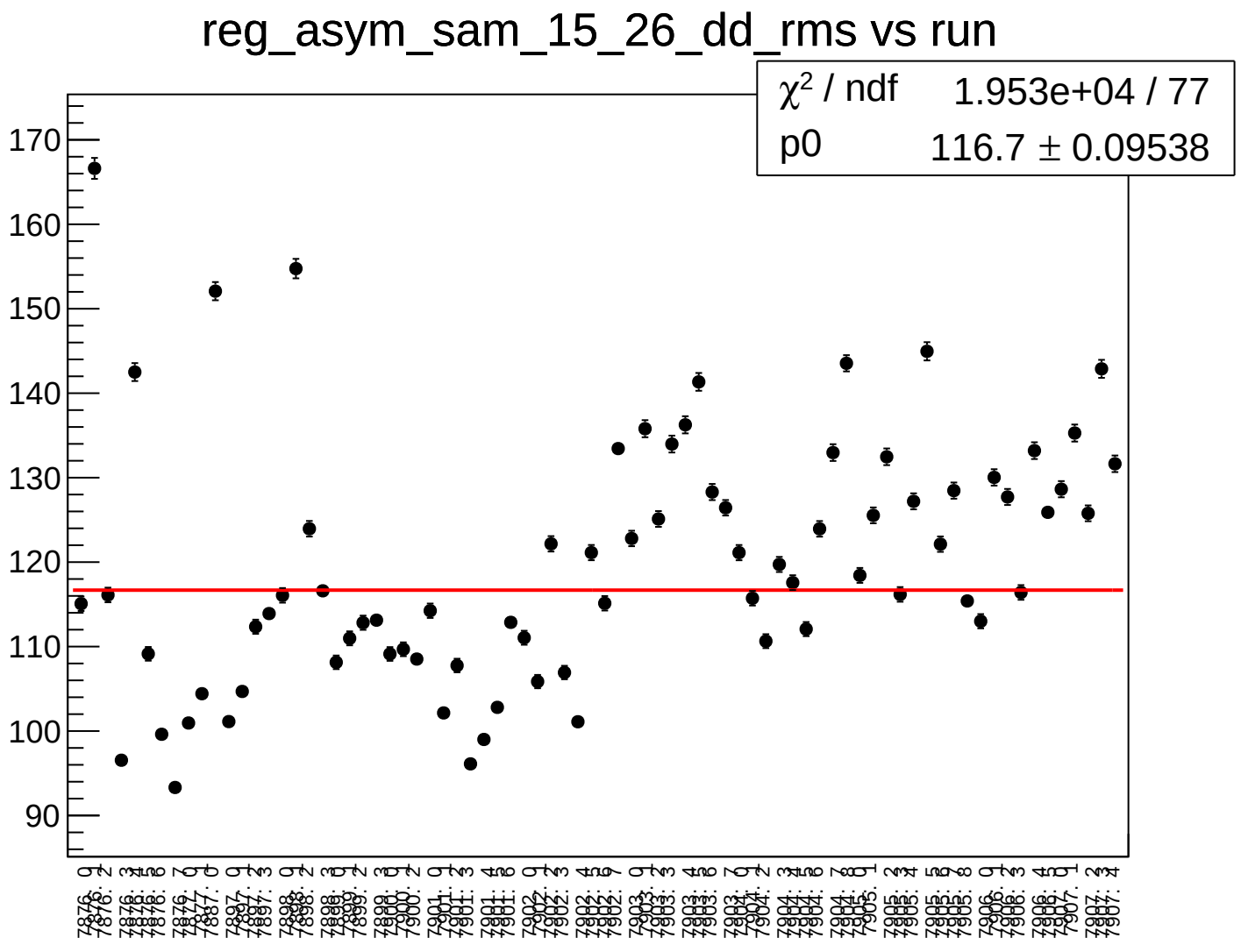

asym_sam_37_48_dd_mean vs run
χ² / ndf 84.63 / 77
p0 −604.9 ± 466
30000
20000
10000
0
−10000
pull
Entries 78
Mean 111.9
Std Dev 32.12
3
2
1
0
−1
−2

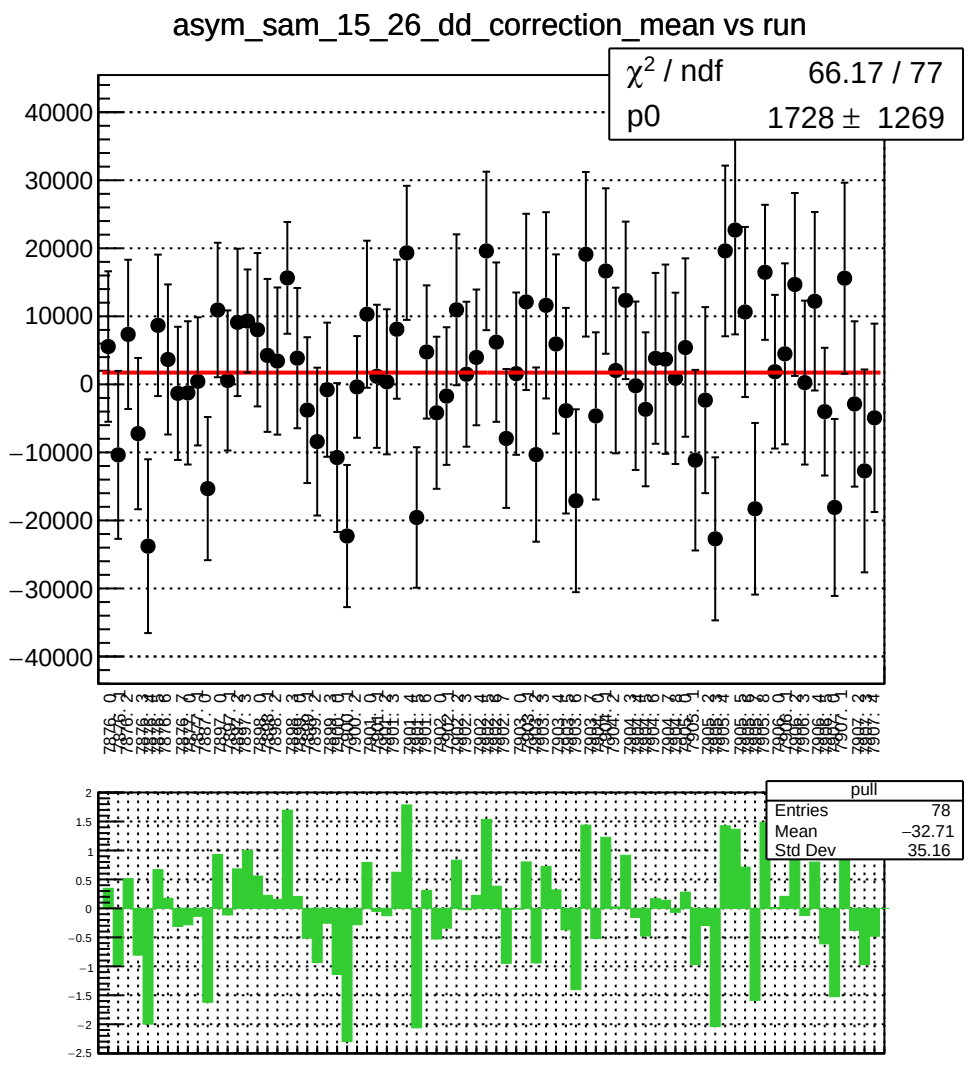

pull1D
Entries 78
Mean 0.01748
Std Dev 1.042
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

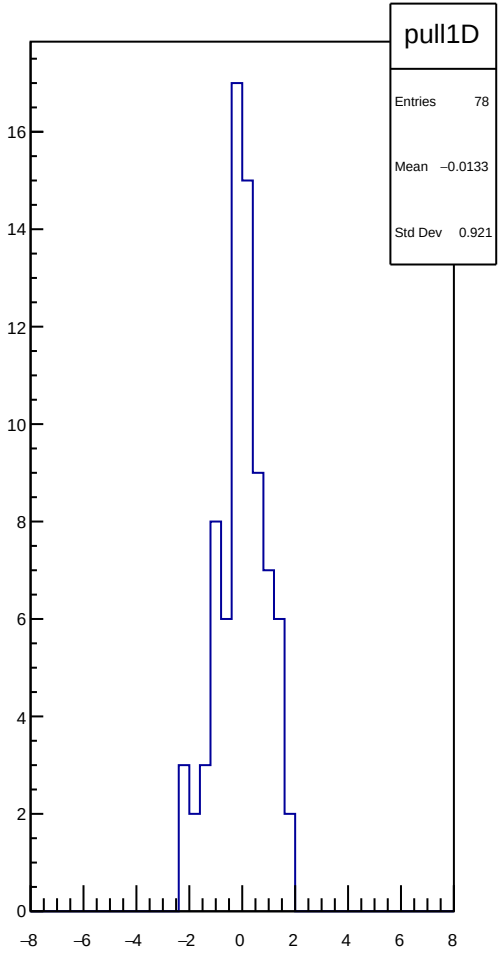

asym_sam_37_48_dd_rms vs run
χ² / ndf 1.583e+04 / 77
p0 403.6 ± 0.3295
800
700
600
500
400
300

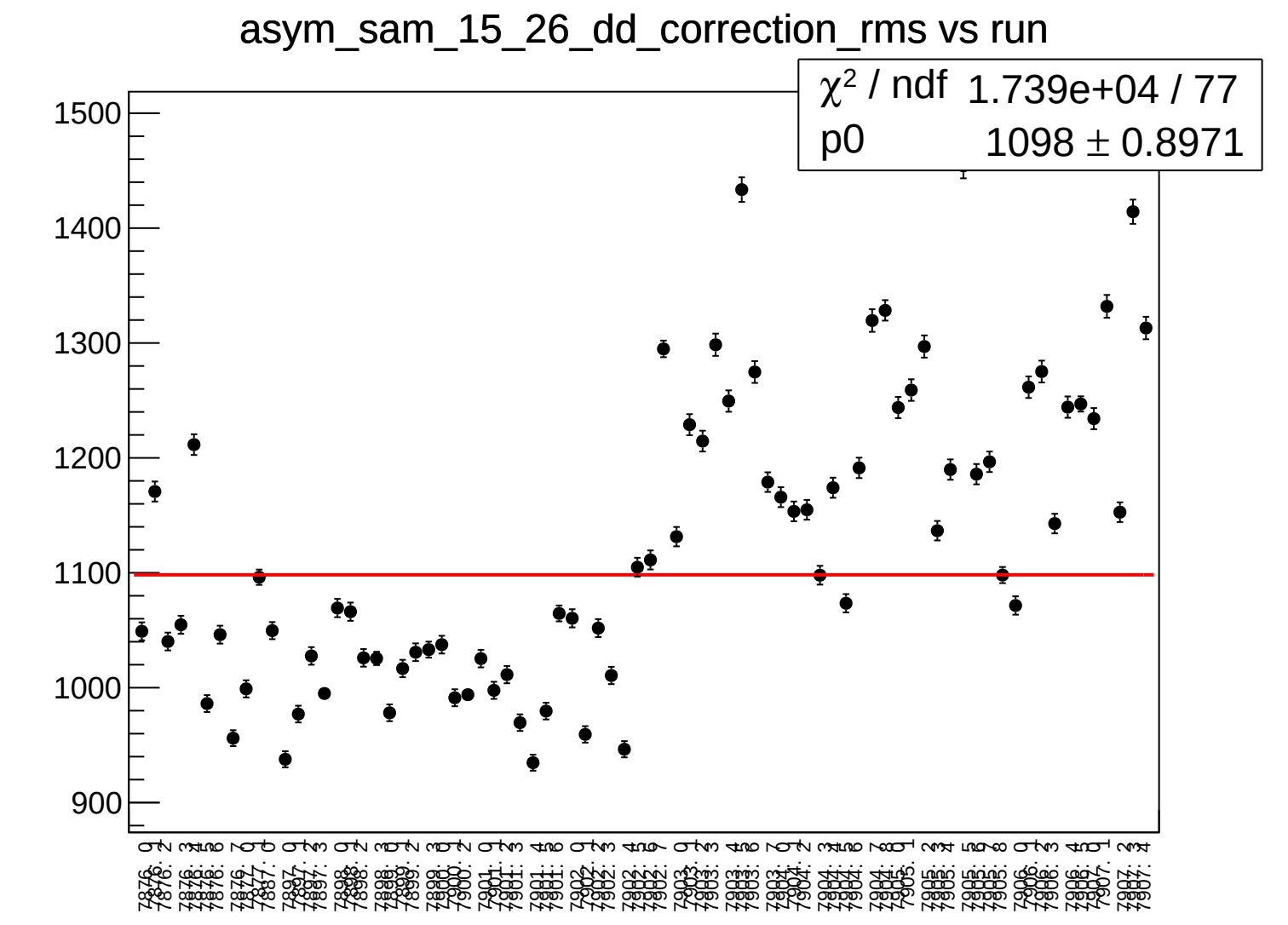

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 78.6 / 77
p0 85.64 ± 134.9
4000
2000
0
−2000
−4000
pull
Entries 78
Mean −345.2
Std Dev 377.4
2
1
0
−1
−2

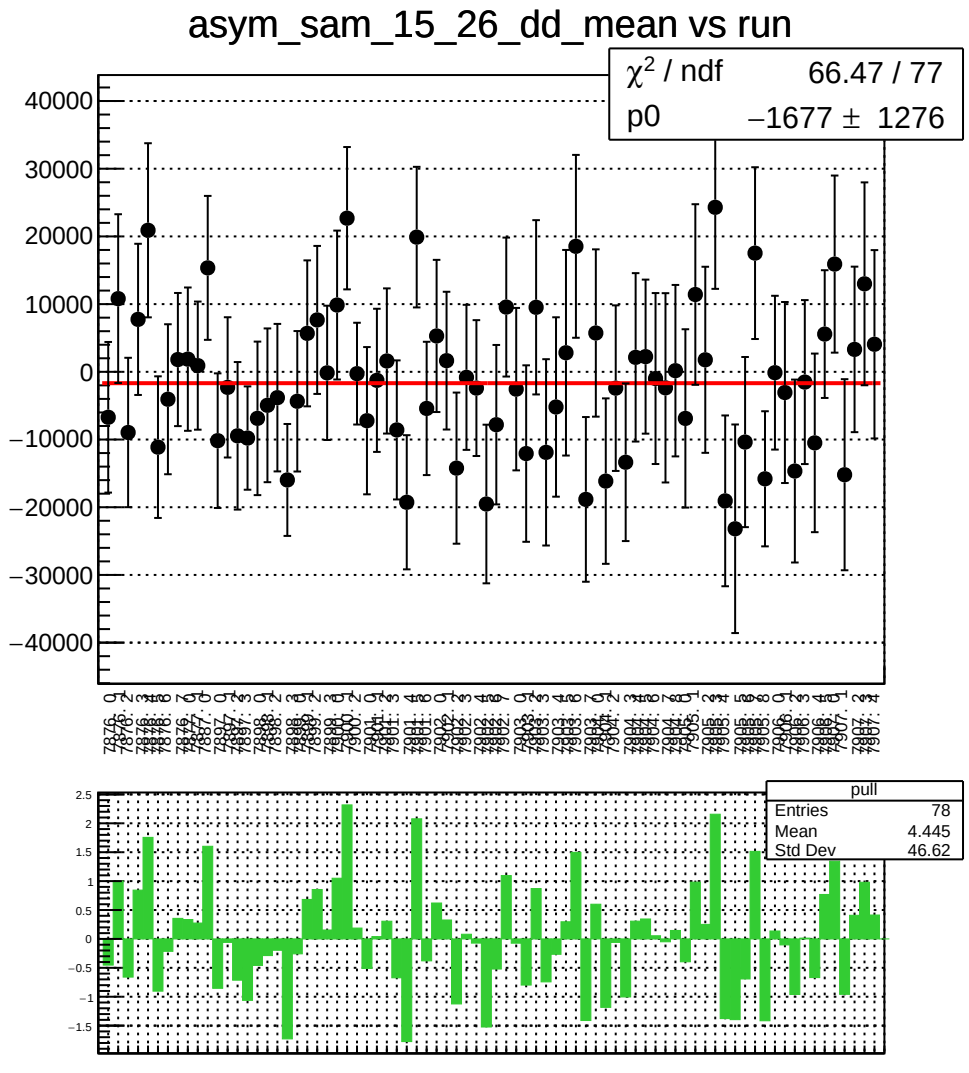

pull1D
Entries 78
Mean −0.01094
Std Dev 1.004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

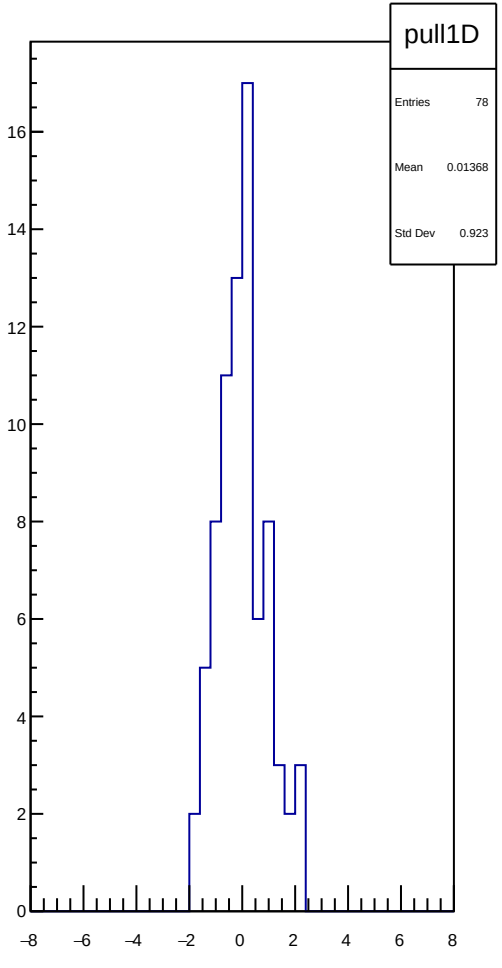

reg_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 1.953e+04 / 77
p0 116.7 ± 0.09538
170
160
150
140
130
120
110
100
90

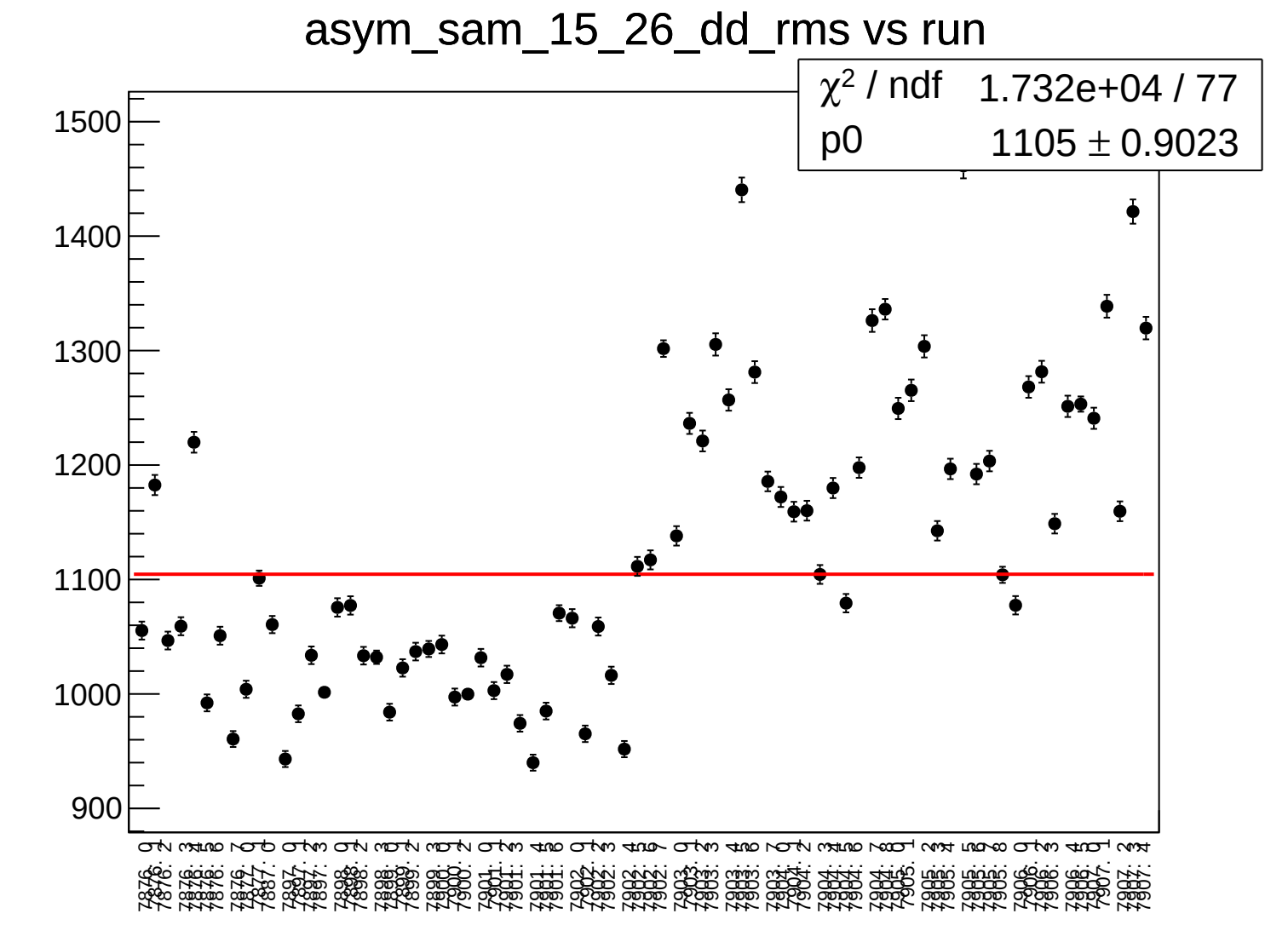

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 66.17 / 77
p0 1728 ± 1269
pull
Entries 78
Mean −32.71
Std Dev 35.16

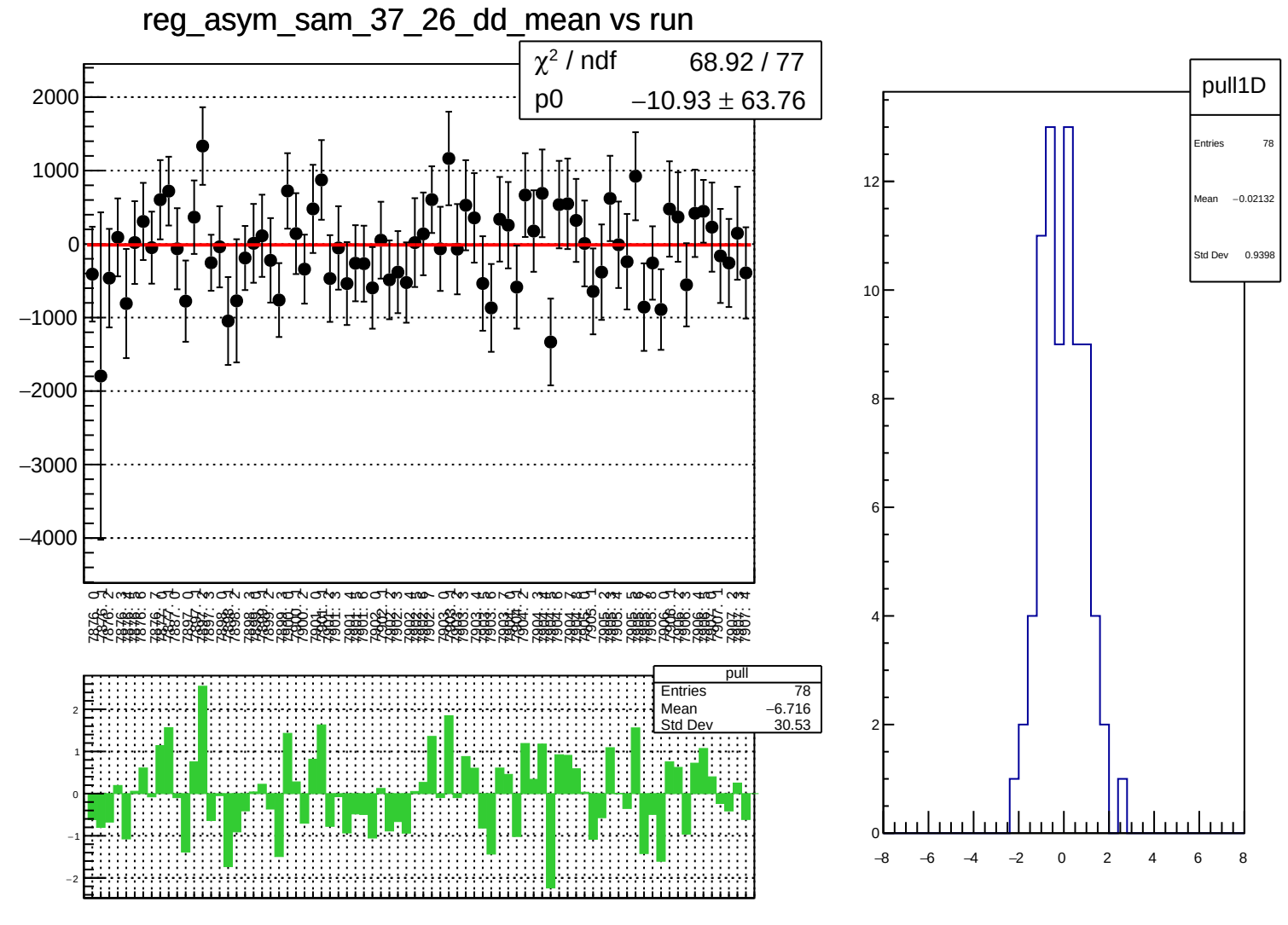

pull1D
Entries 78
Mean −0.0133
Std Dev 0.921

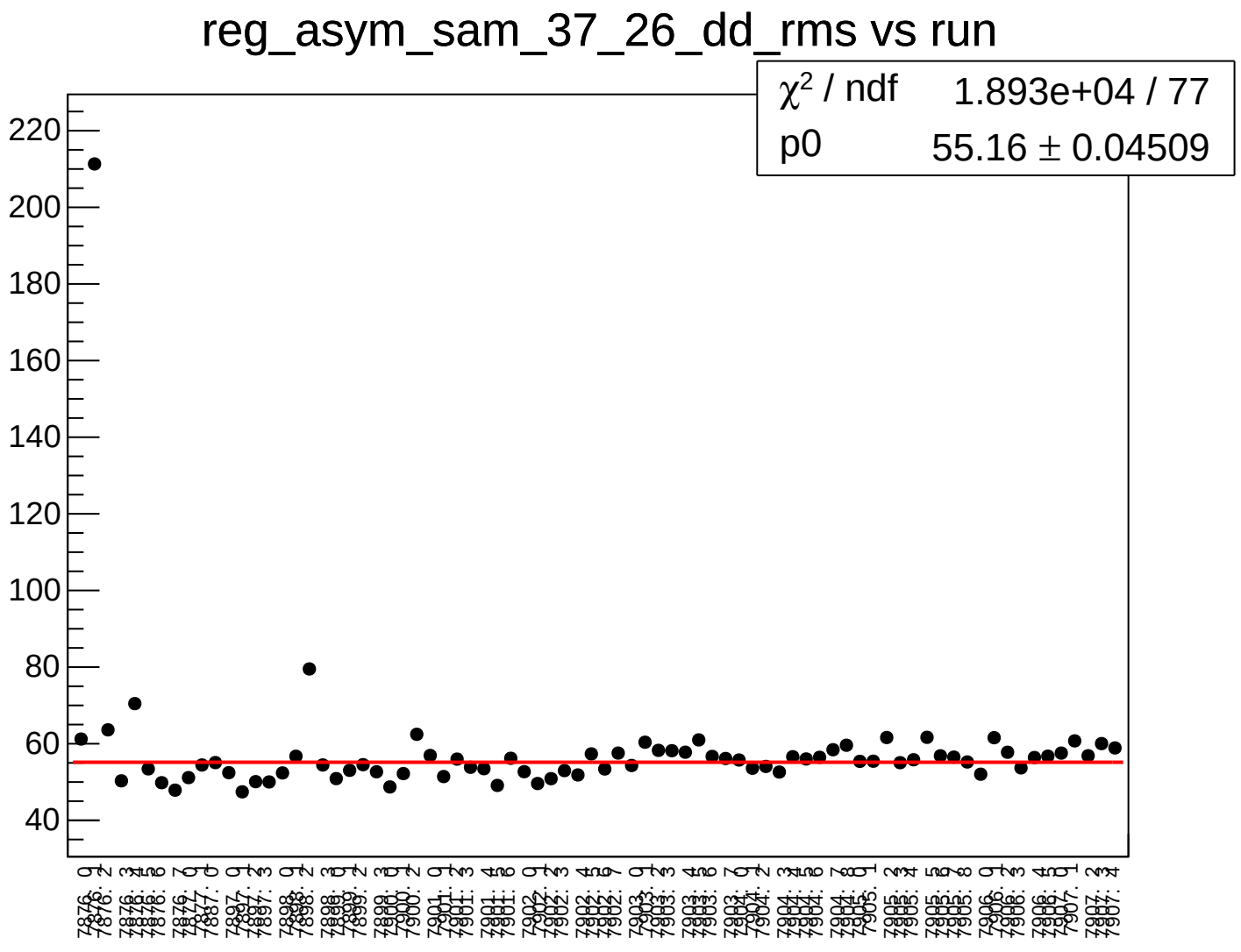

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 1.739e+04 / 77
p0 1098 ± 0.8971
1500
1400
1300
1200
1100
1000
900

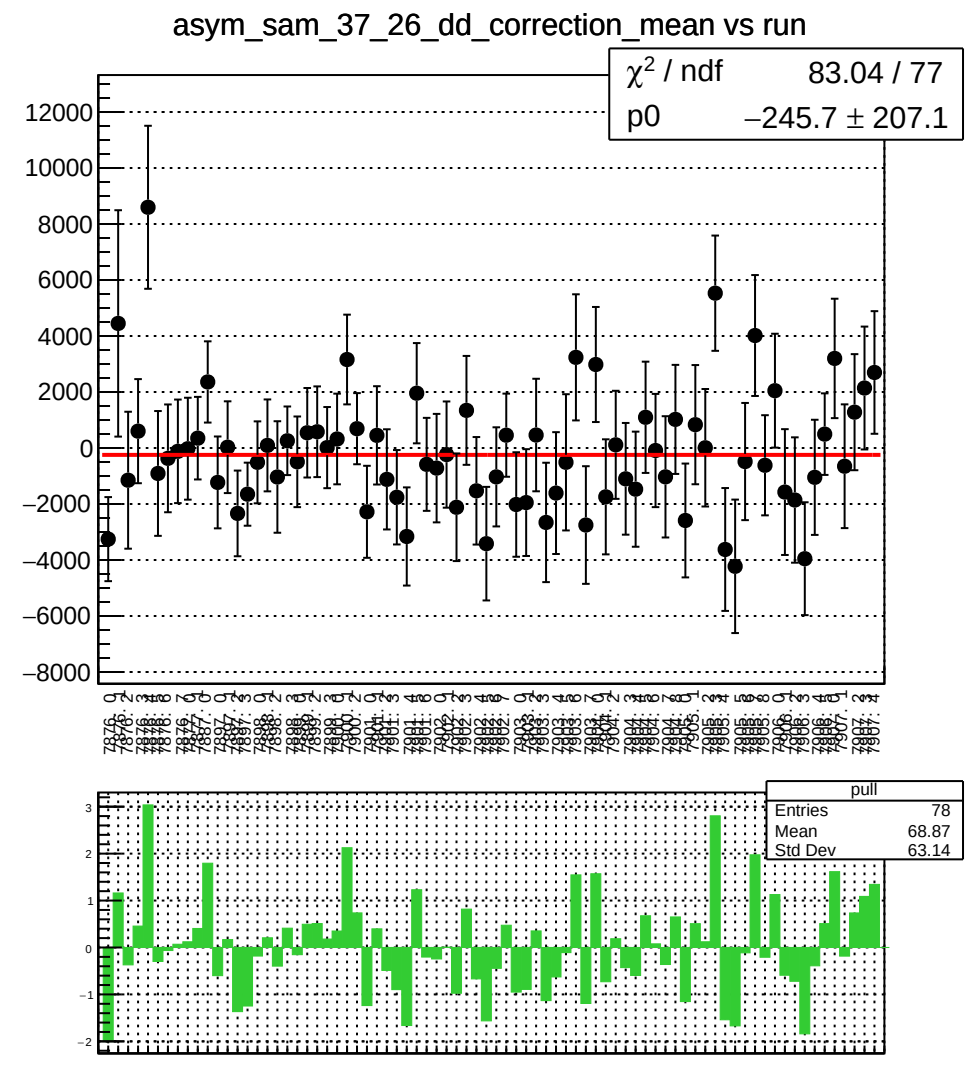

asym_sam_15_26_dd_mean vs run
χ² / ndf 66.47 / 77
p0 −1677 ± 1276
pull
Entries 78
Mean 4.445
Std Dev 46.62

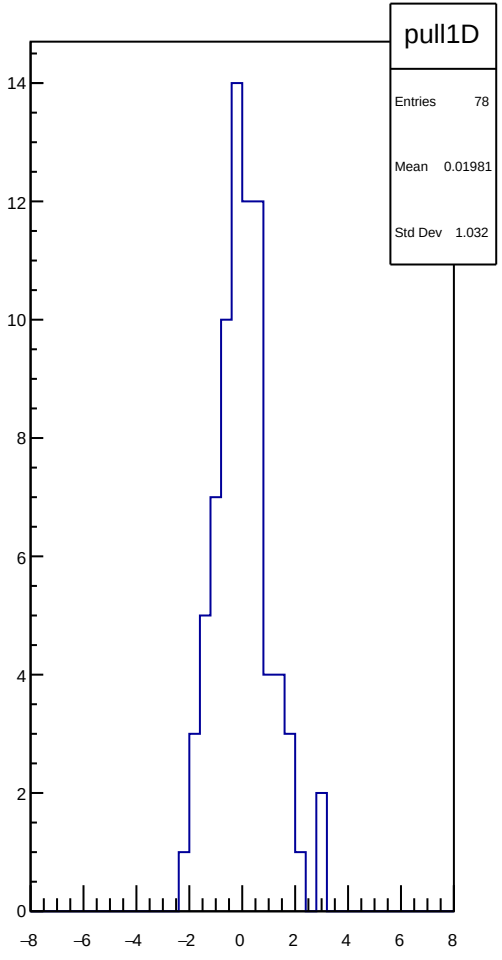

pull1D
Entries 78
Mean 0.01368
Std Dev 0.923

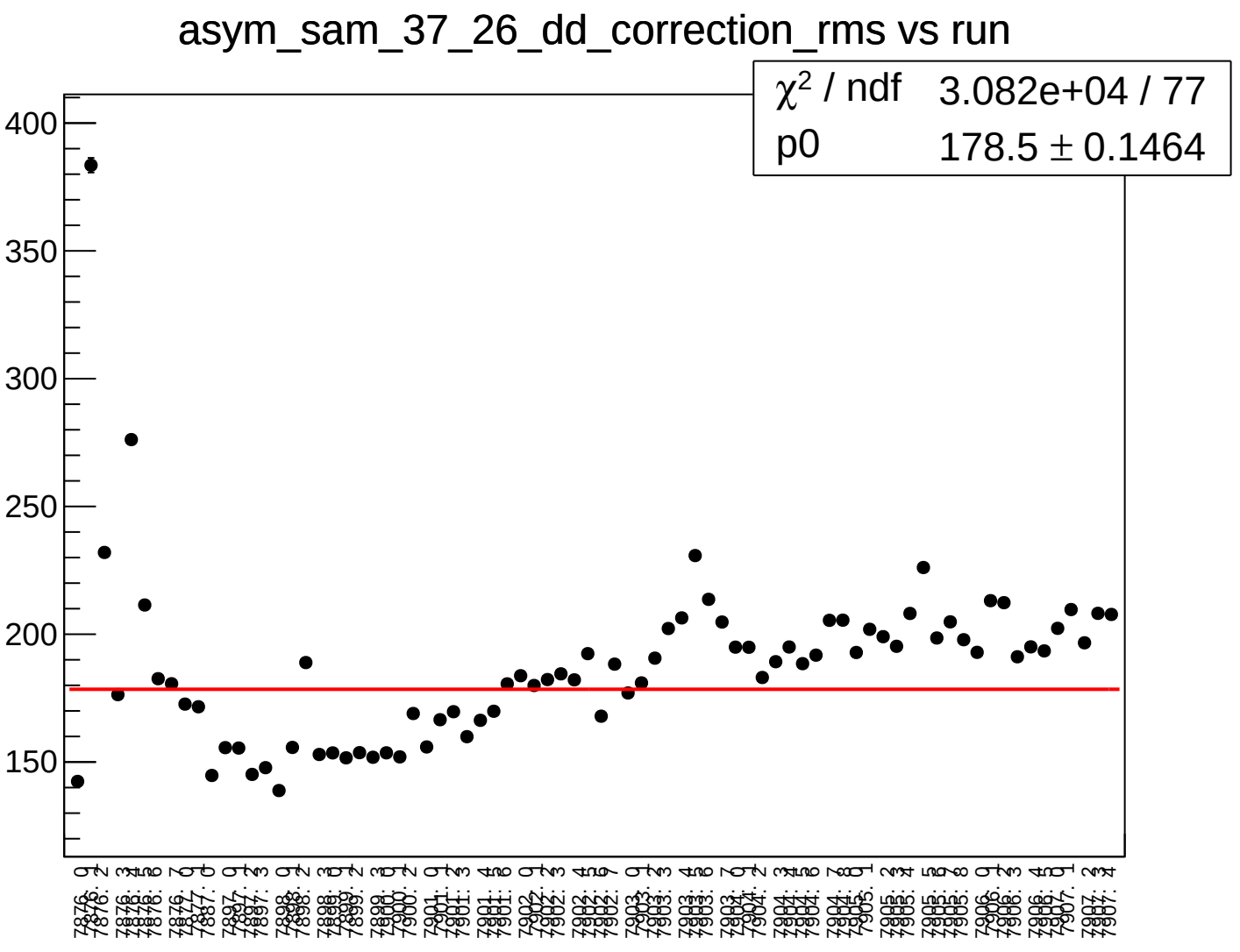

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.732e+04 / 77
p0 1105 ± 0.9023
1500
1400
1300
1200
1100
1000
900

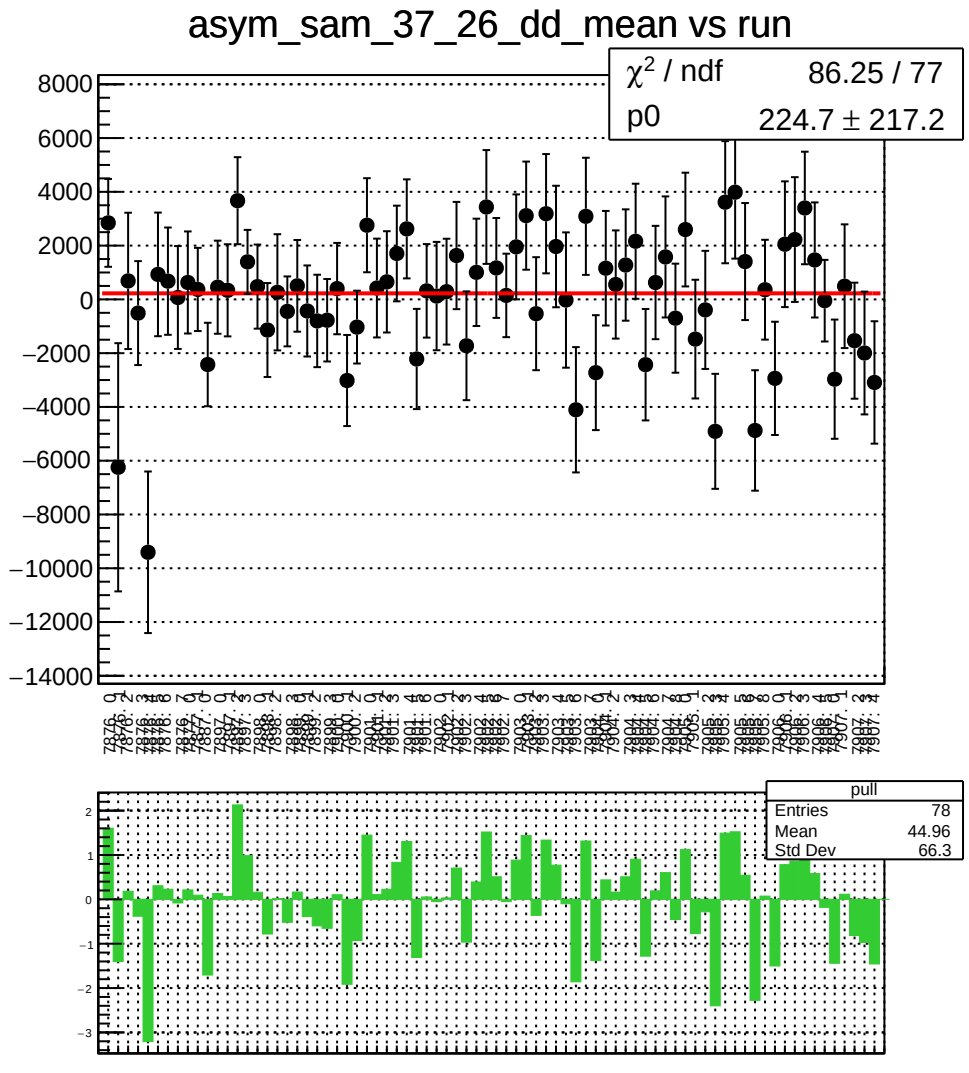

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 68.92 / 77
p0 −10.93 ± 63.76
pull
Entries 78
Mean −6.716
Std Dev 30.53
pull1D
Entries 78
Mean −0.02132
Std Dev 0.9398

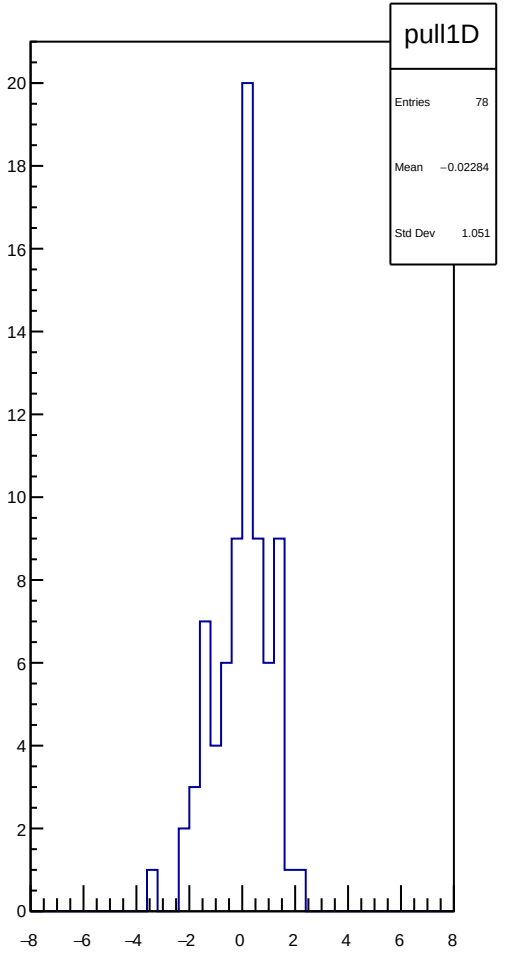

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.893e+04 / 77
p0 55.16 ± 0.04509
220
200
180
160
140
120
100
80
60
40

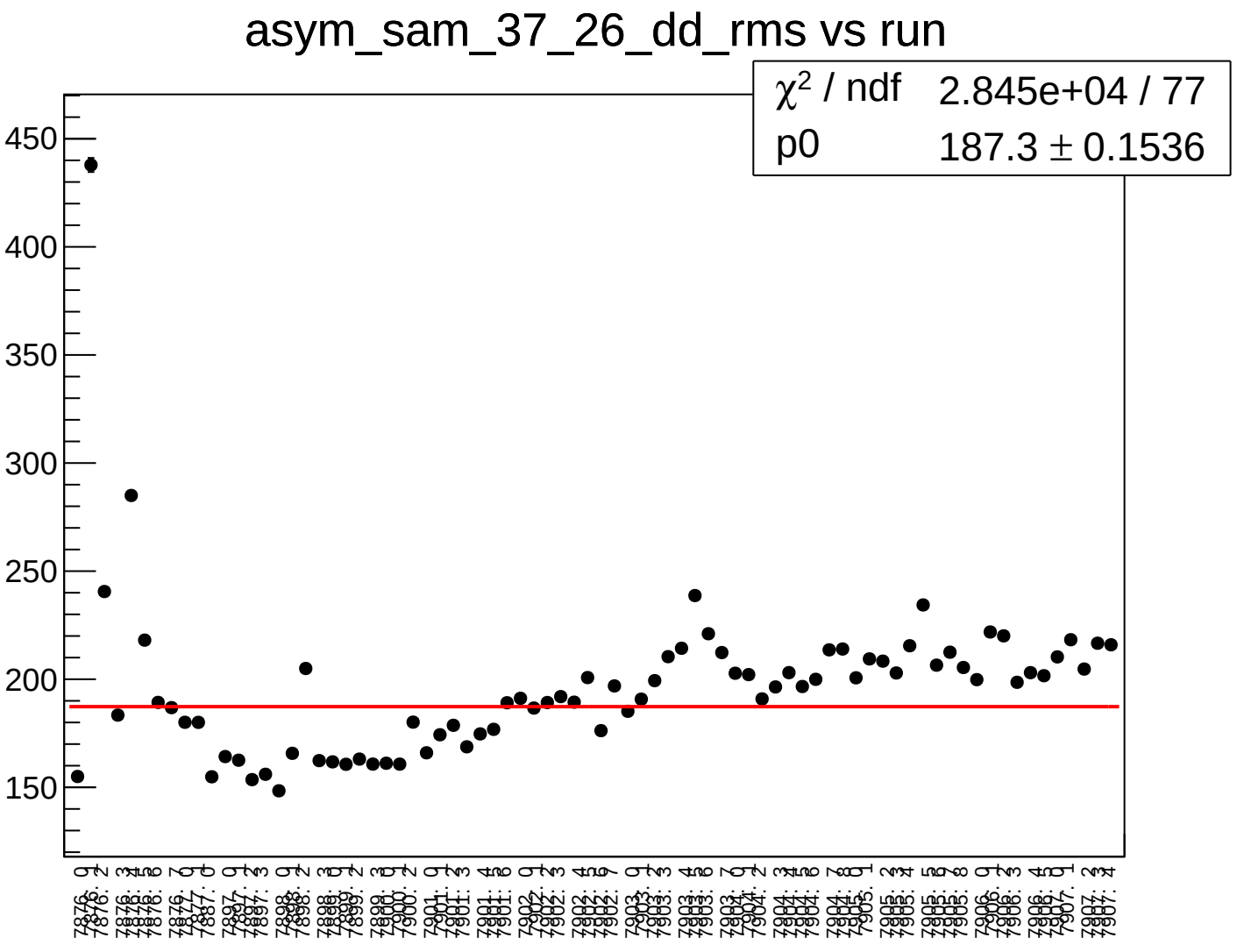

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 83.04 / 77
p0 −245.7 ± 207.1
pull
Entries 78
Mean 68.87
Std Dev 63.14

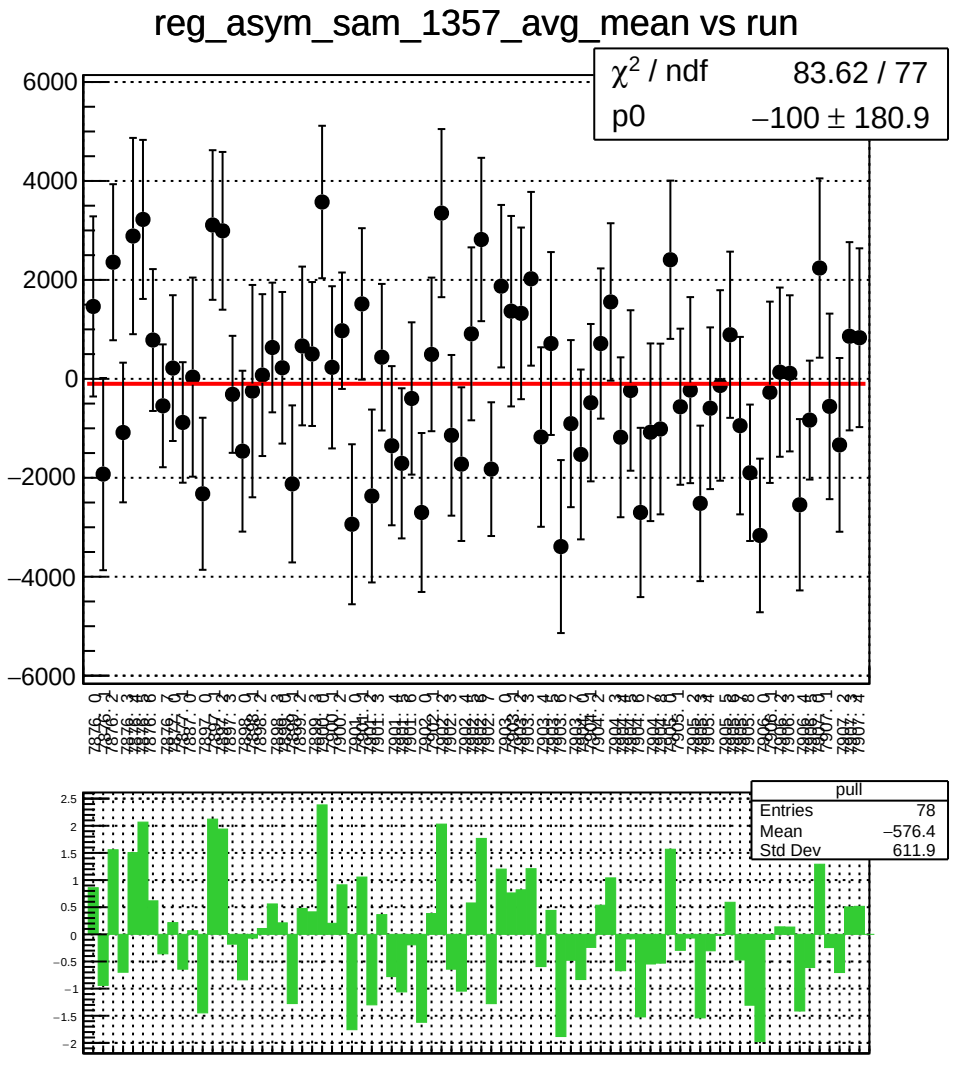

pull1D
Entries 78
Mean 0.01981
Std Dev 1.032

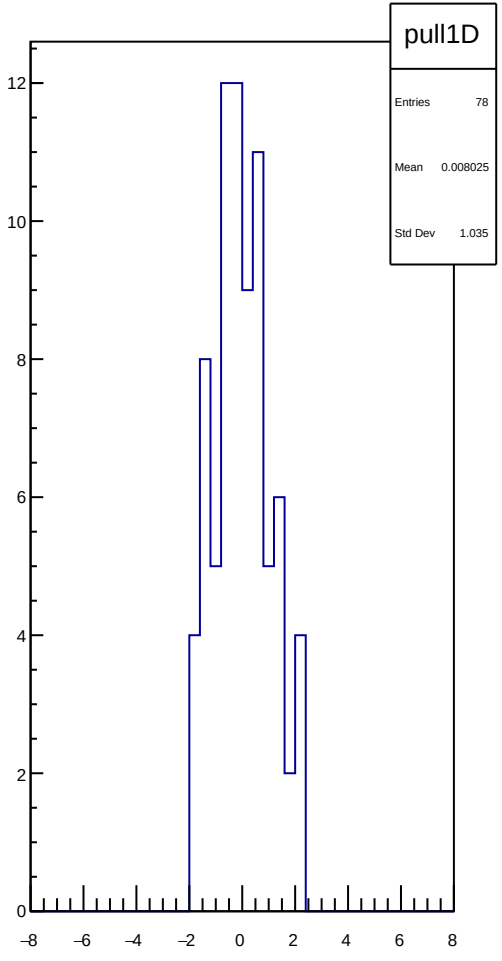

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 3.082e+04 / 77
p0 178.5 ± 0.1464
400
350
300
250
200
150

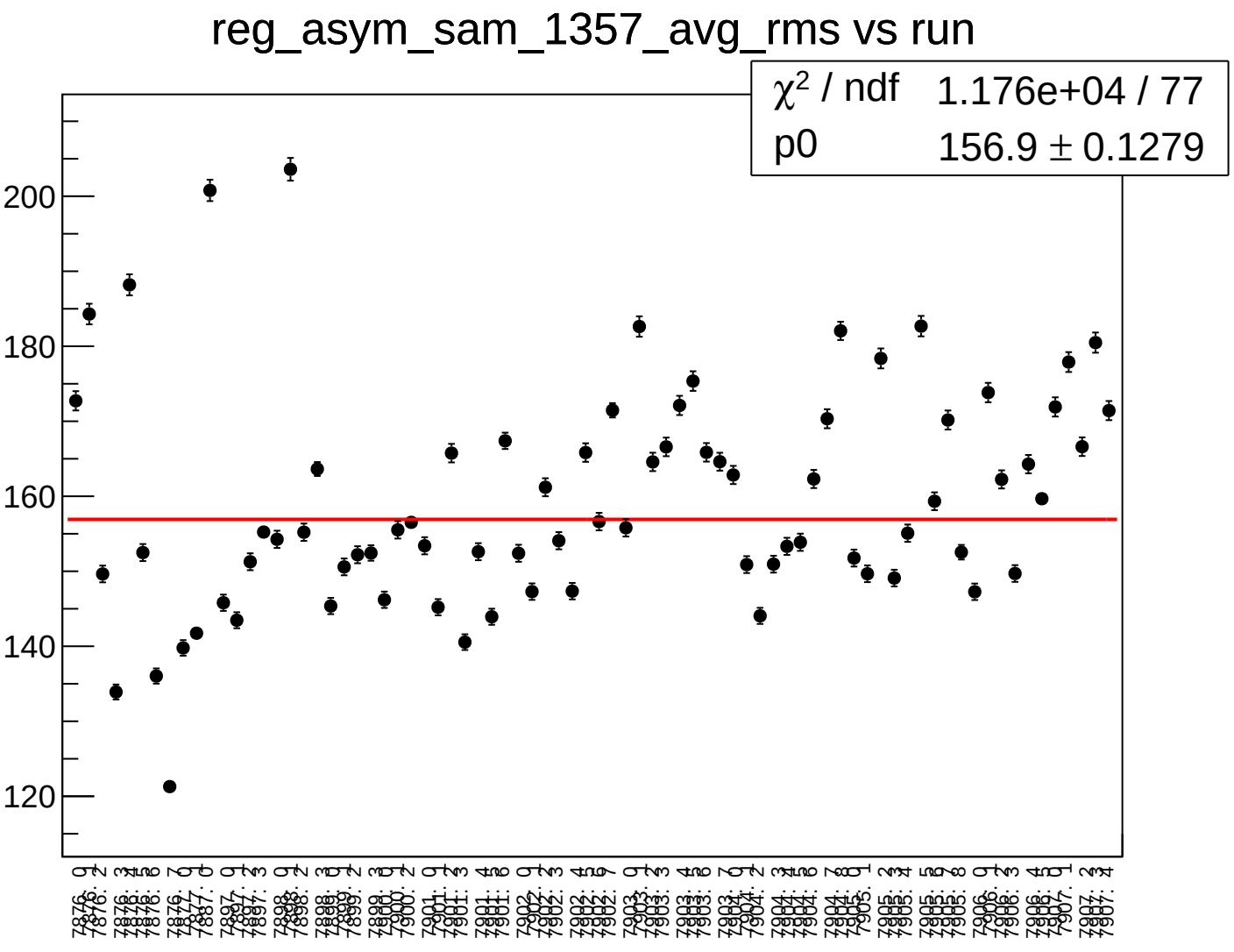

asym_sam_37_26_dd_mean vs run
χ² / ndf 86.25 / 77
p0 224.7 ± 217.2
pull
Entries 78
Mean 44.96
Std Dev 66.3

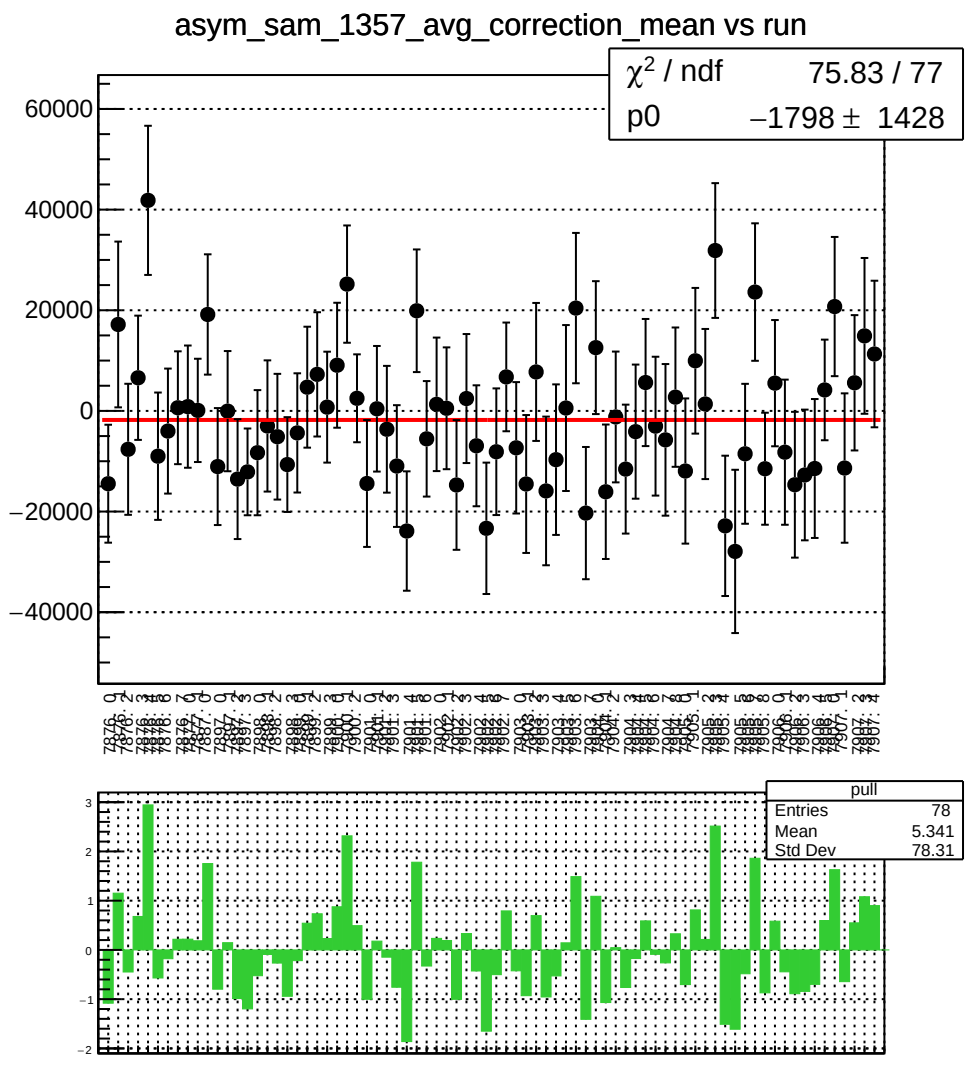

pull1D
Entries 78
Mean −0.02284
Std Dev 1.051

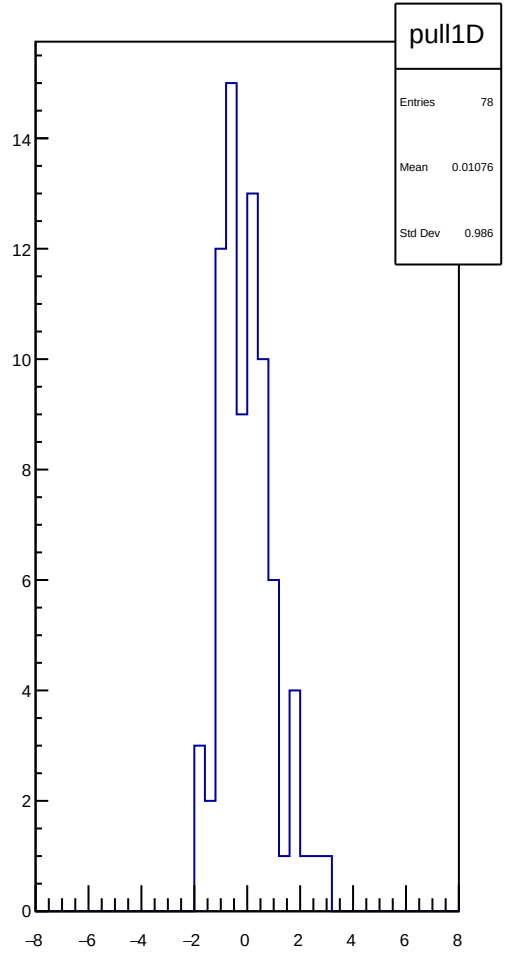

asym_sam_37_26_dd_rms vs run
χ² / ndf 2.845e+04 / 77
p0 187.3 ± 0.1536
450
400
350
300
250
200
150

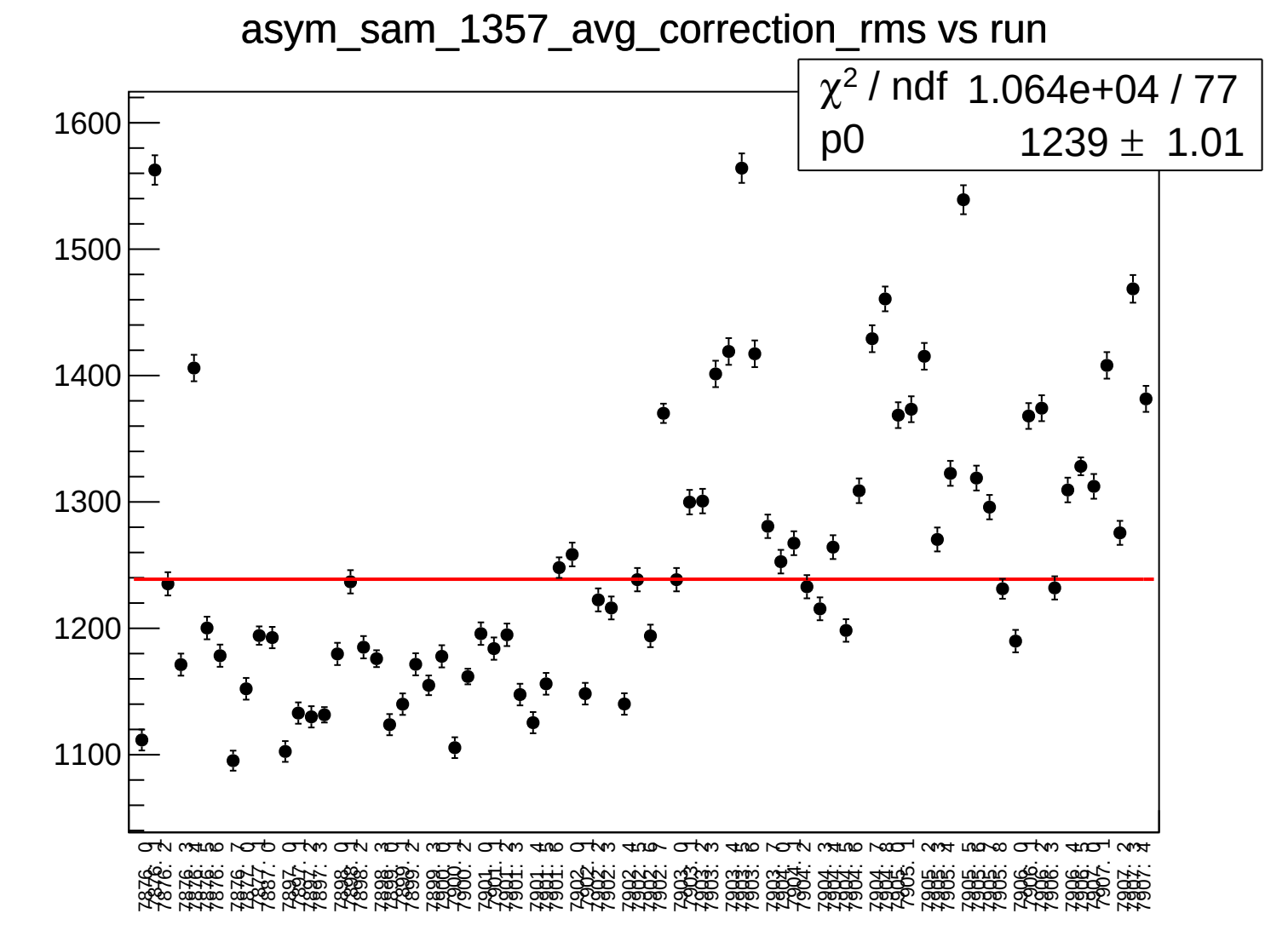

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 83.62 / 77
p0 −100 ± 180.9
pull
Entries 78
Mean −576.4
Std Dev 611.9

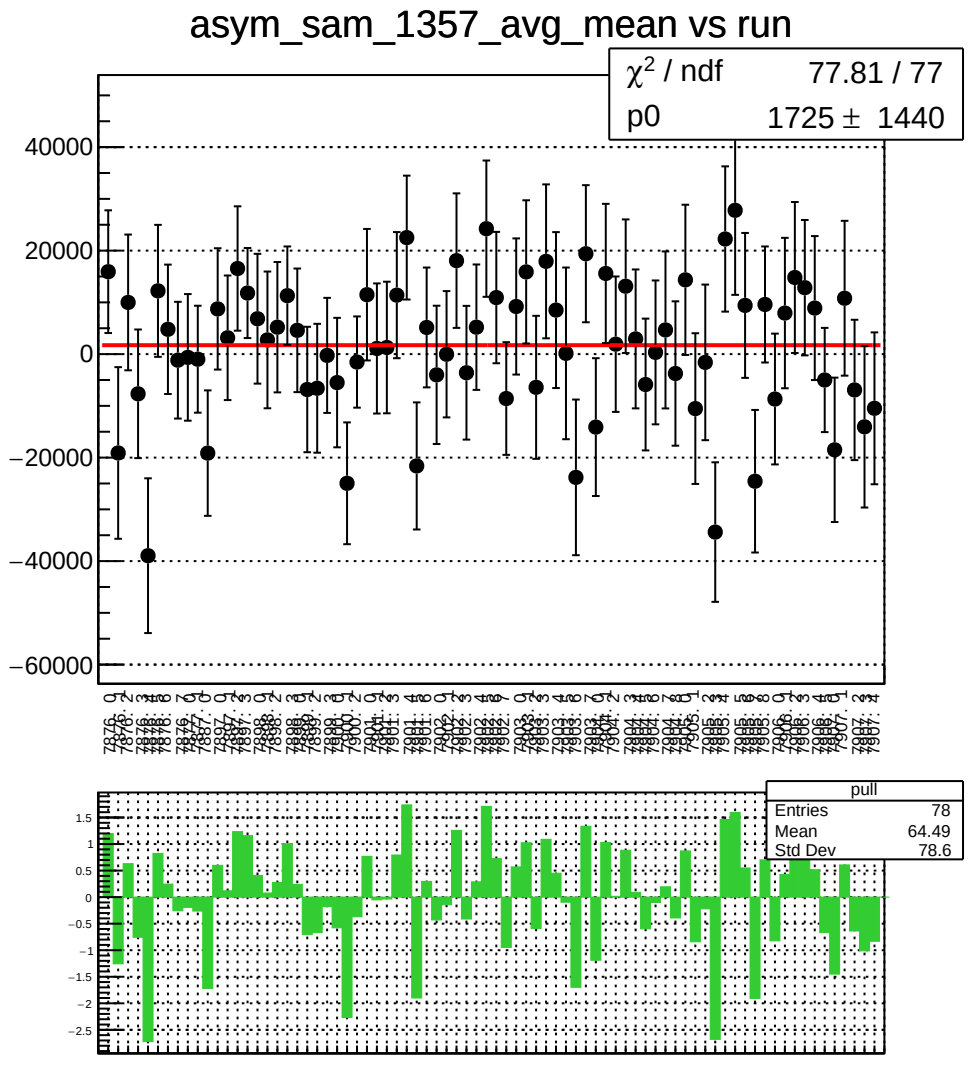

pull1D
Entries 78
Mean 0.008025
Std Dev 1.035

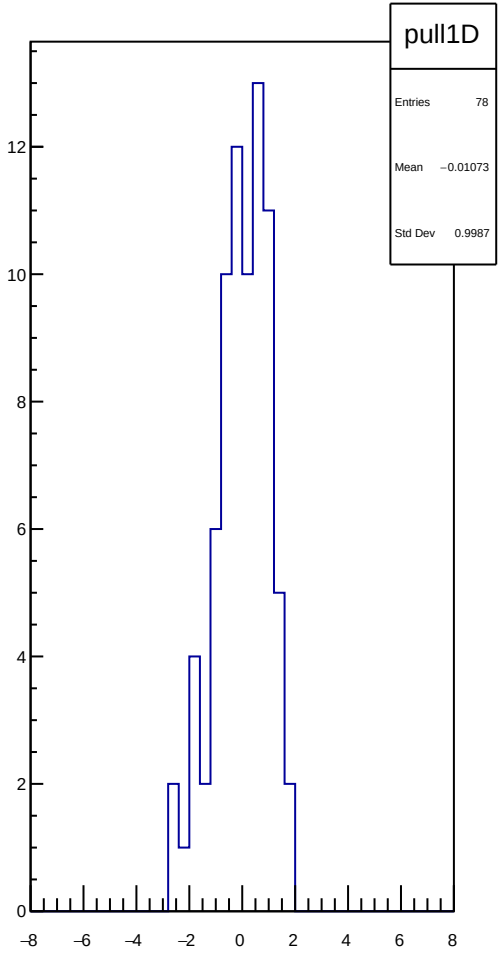

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.176e+04 / 77
p0 156.9 ± 0.1279
200
180
160
140
120

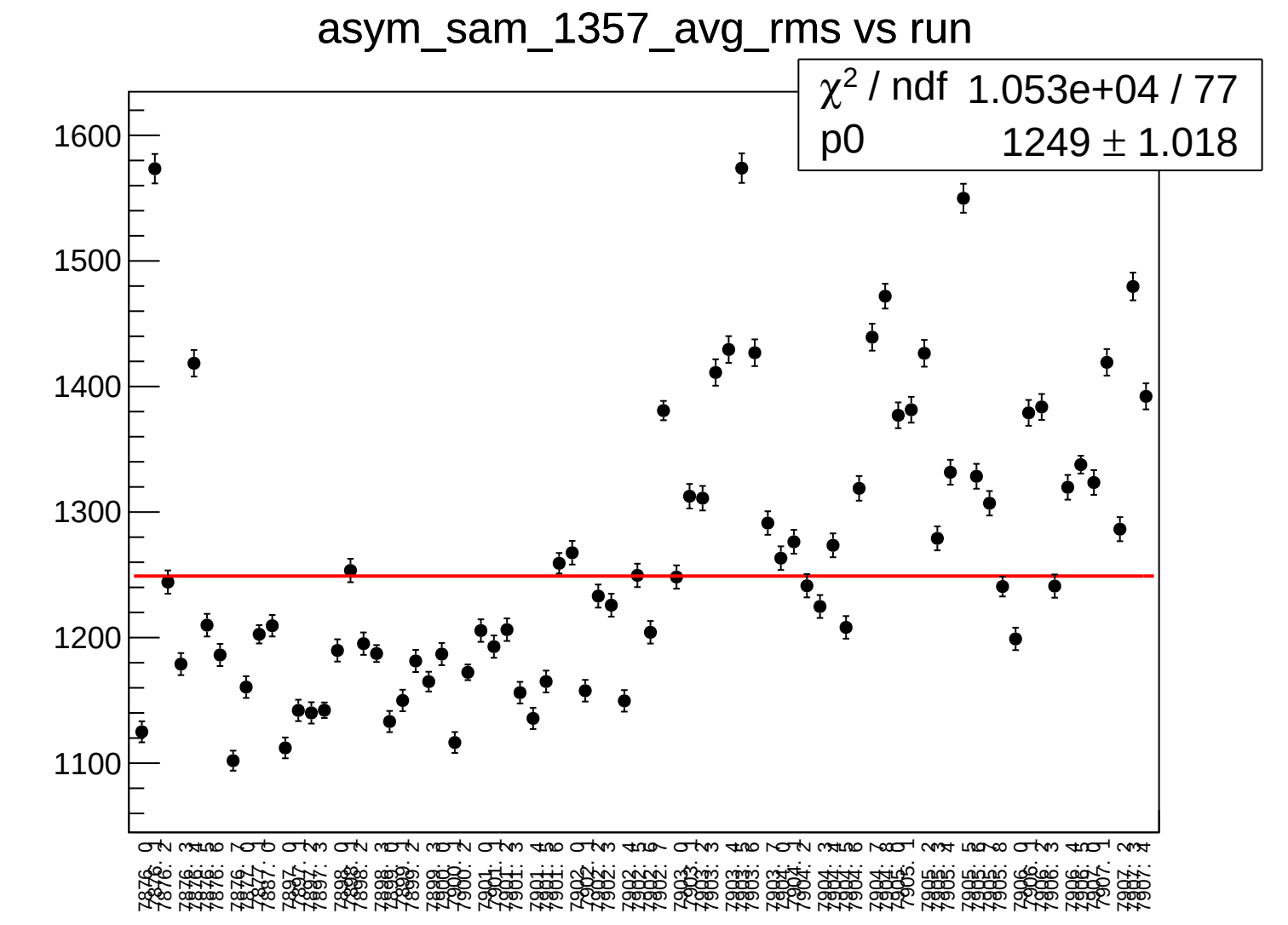

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 75.83 / 77
p0 −1798 ± 1428
60000
40000
20000
0
−20000
−40000
pull
Entries 78
Mean 5.341
Std Dev 78.31
3
2
1
0
−1
−2

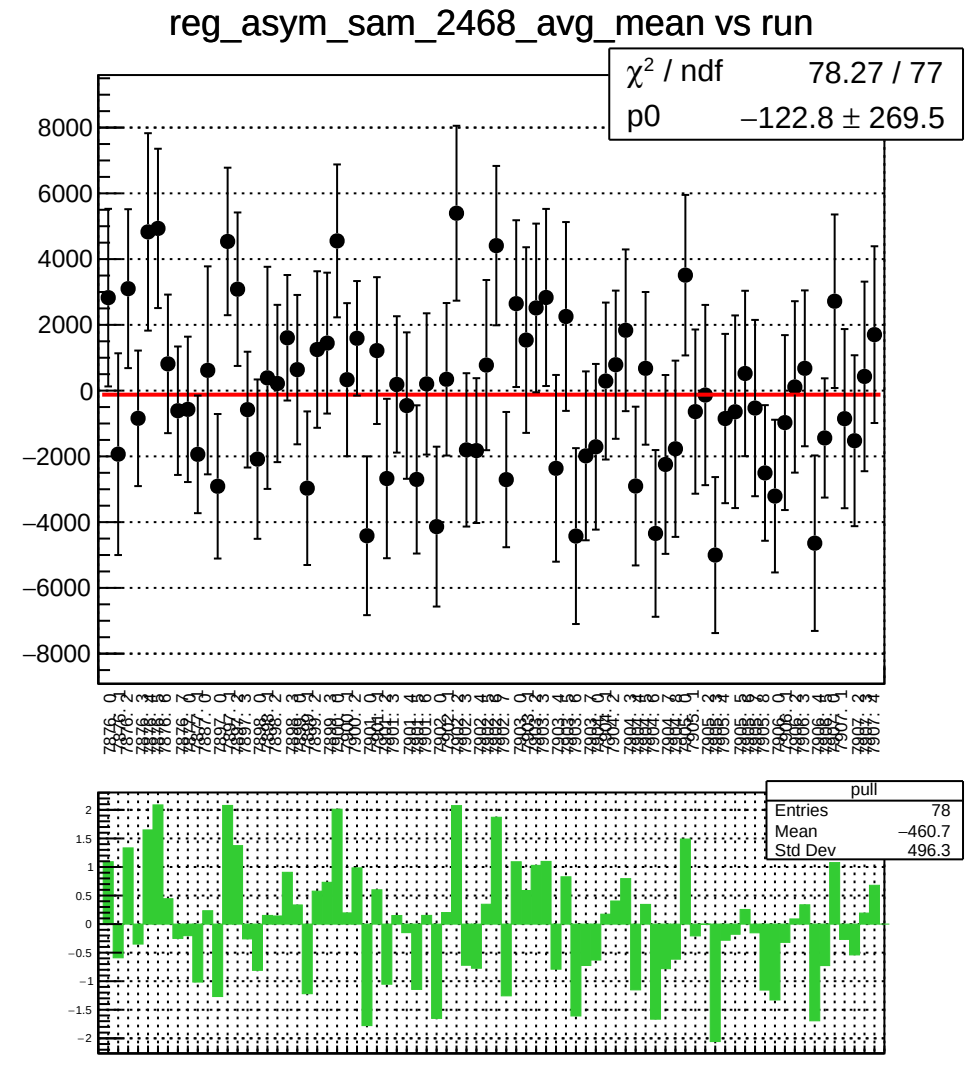

pull1D
Entries 78
Mean 0.01076
Std Dev 0.986
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

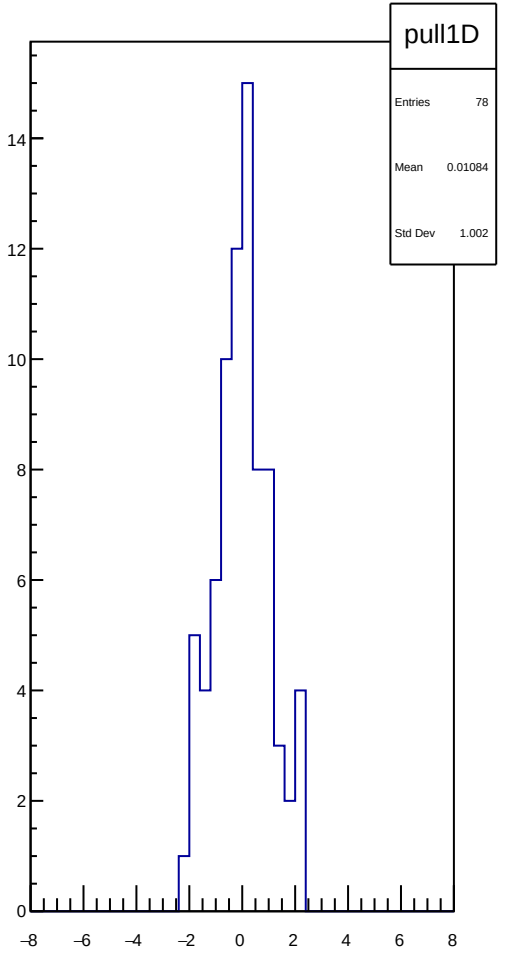

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 1.064e+04 / 77
p0 1239 ± 1.01
1600
1500
1400
1300
1200
1100

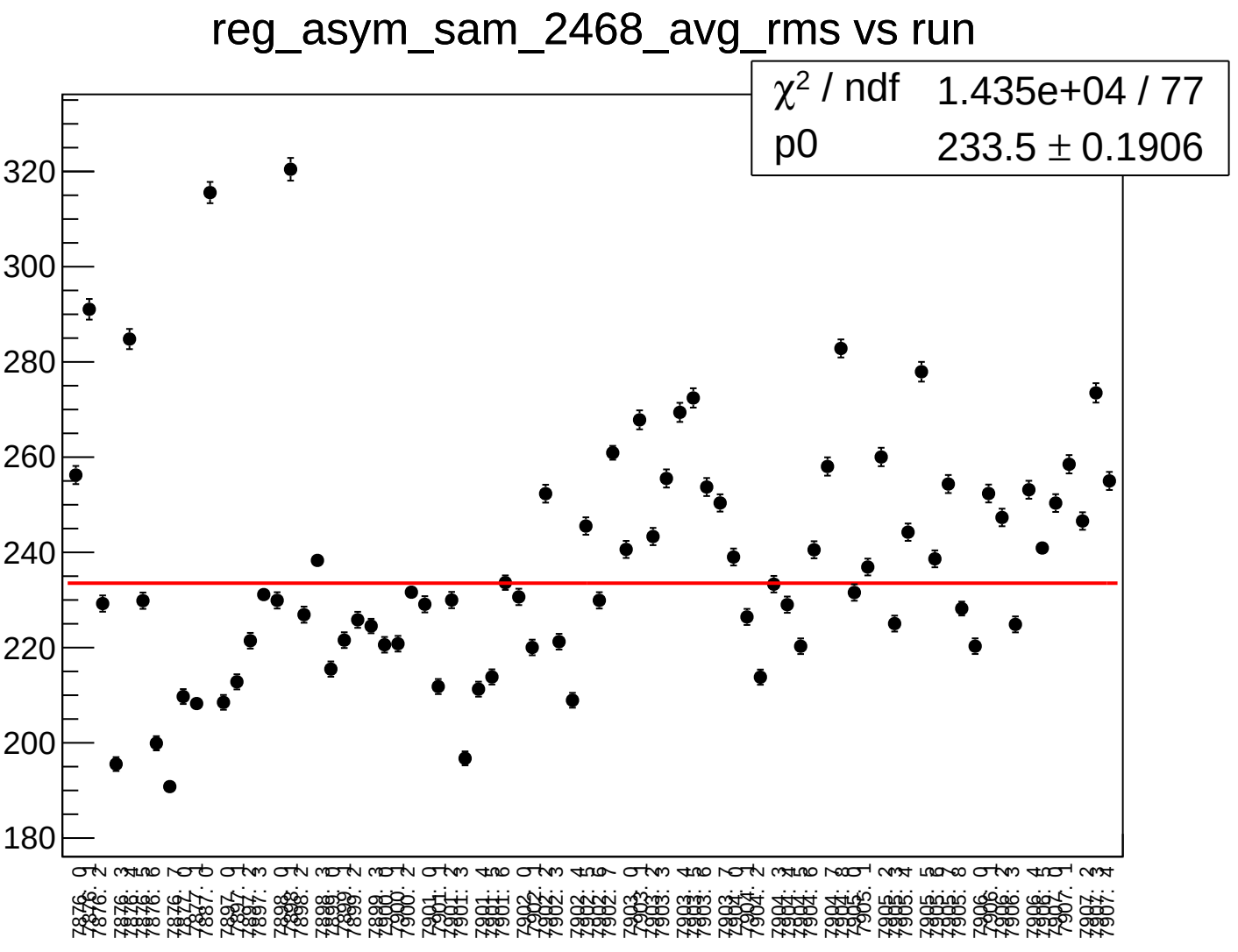

asym_sam_1357_avg_mean vs run
χ² / ndf 77.81 / 77
p0 1725 ± 1440
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean 64.49
Std Dev 78.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

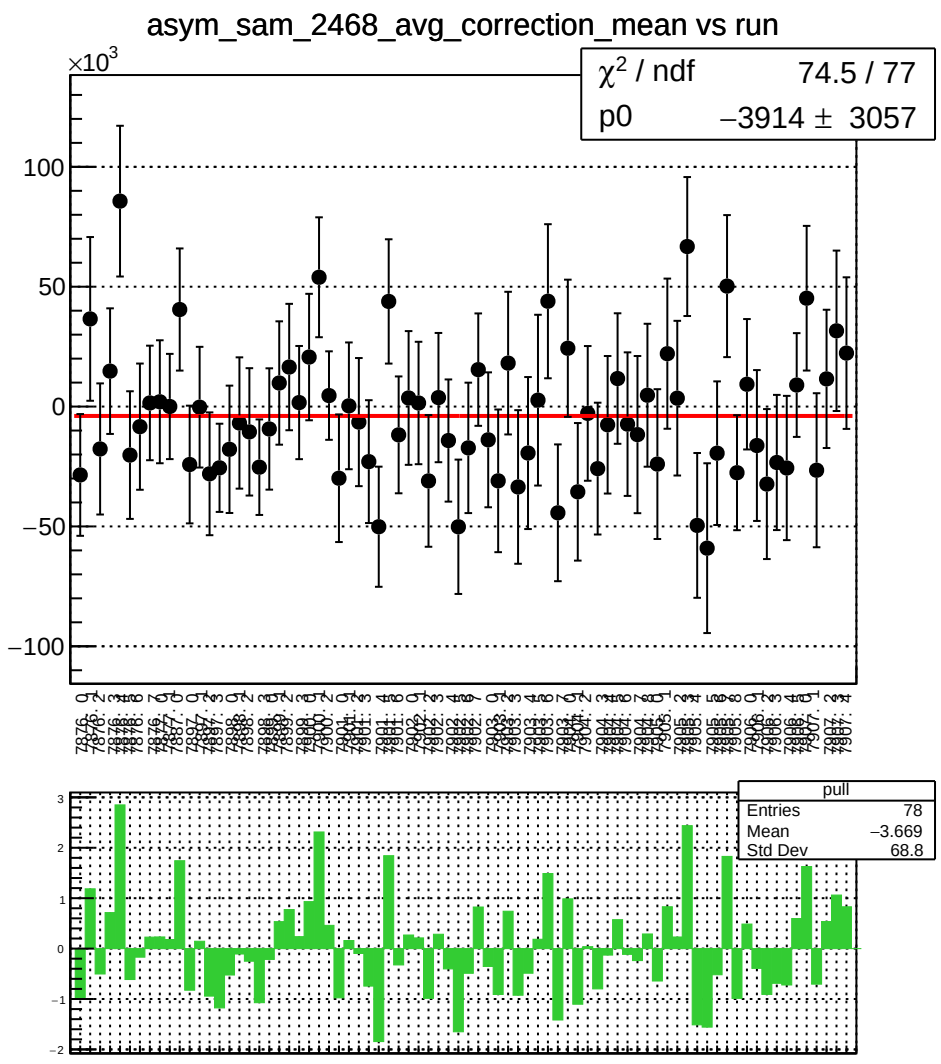

pull1D
Entries 78
Mean −0.01073
Std Dev 0.9987
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

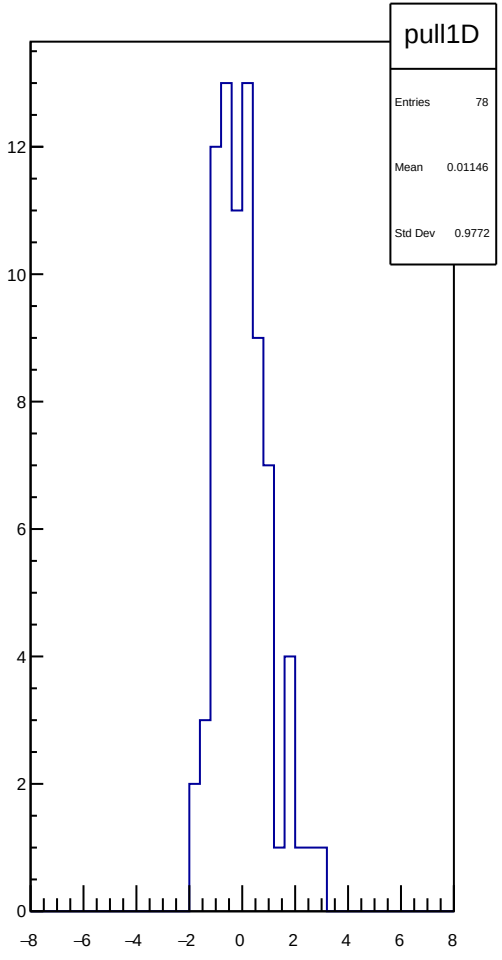

asym_sam_1357_avg_rms vs run
χ² / ndf 1.053e+04 / 77
p0 1249 ± 1.018
1600
1500
1400
1300
1200
1100

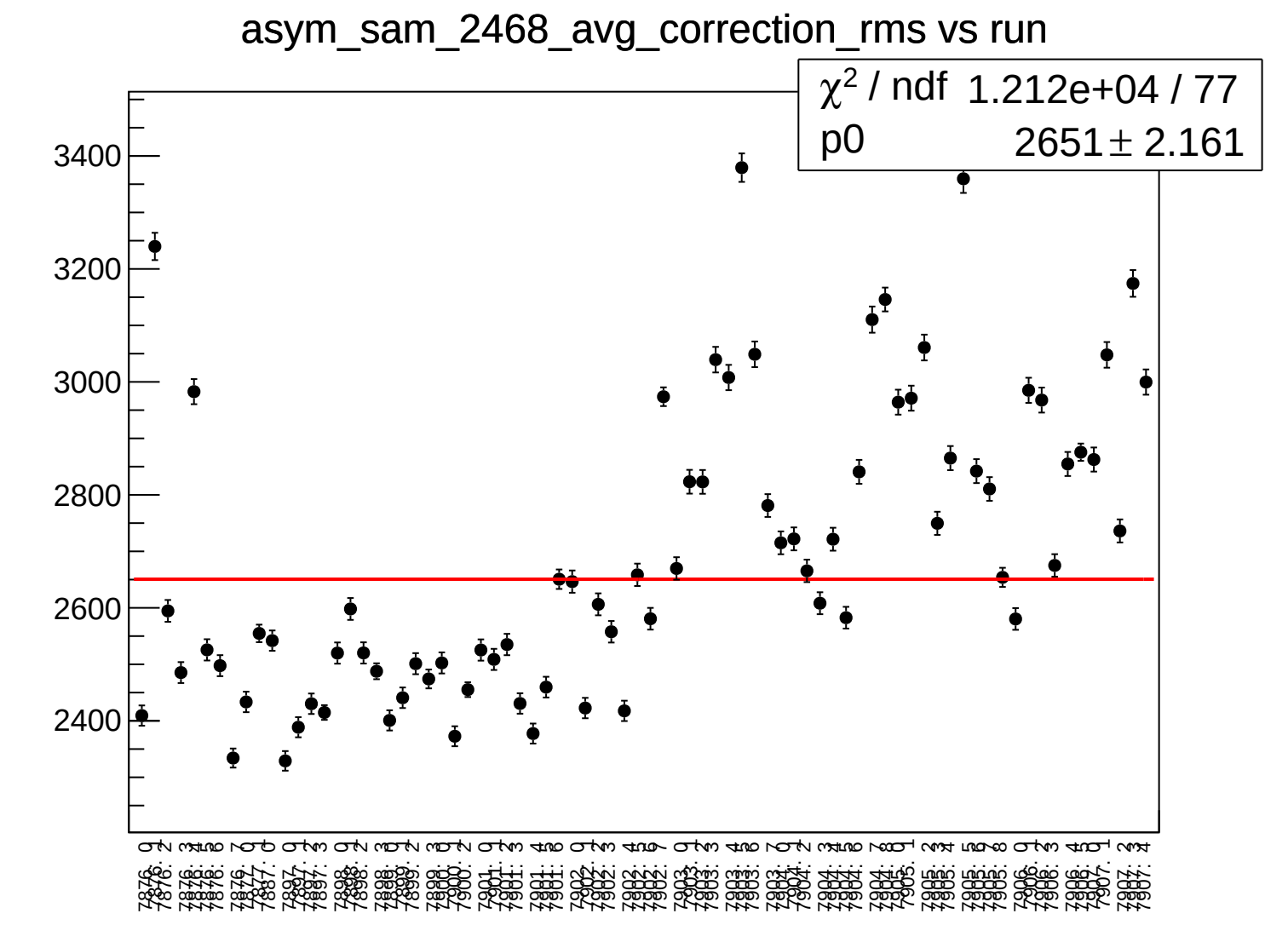

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 78.27 / 77
p0 −122.8 ± 269.5
pull
Entries 78
Mean −460.7
Std Dev 496.3

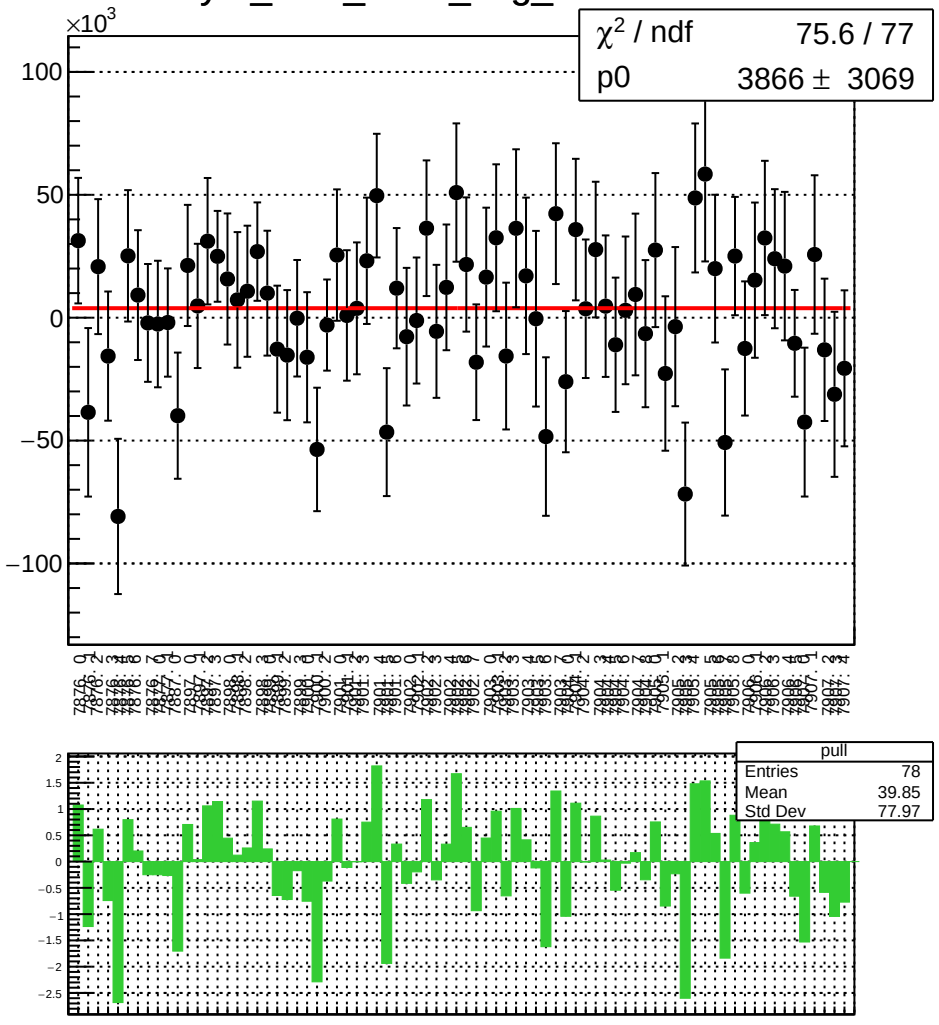

pull1D
Entries 78
Mean 0.01084
Std Dev 1.002

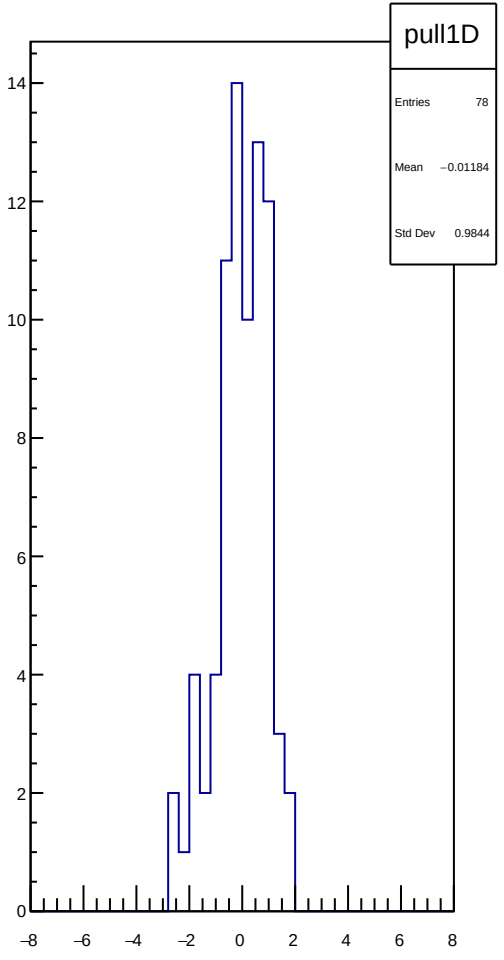

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.435e+04 / 77
p0 233.5 ± 0.1906
320
300
280
260
240
220
200
180

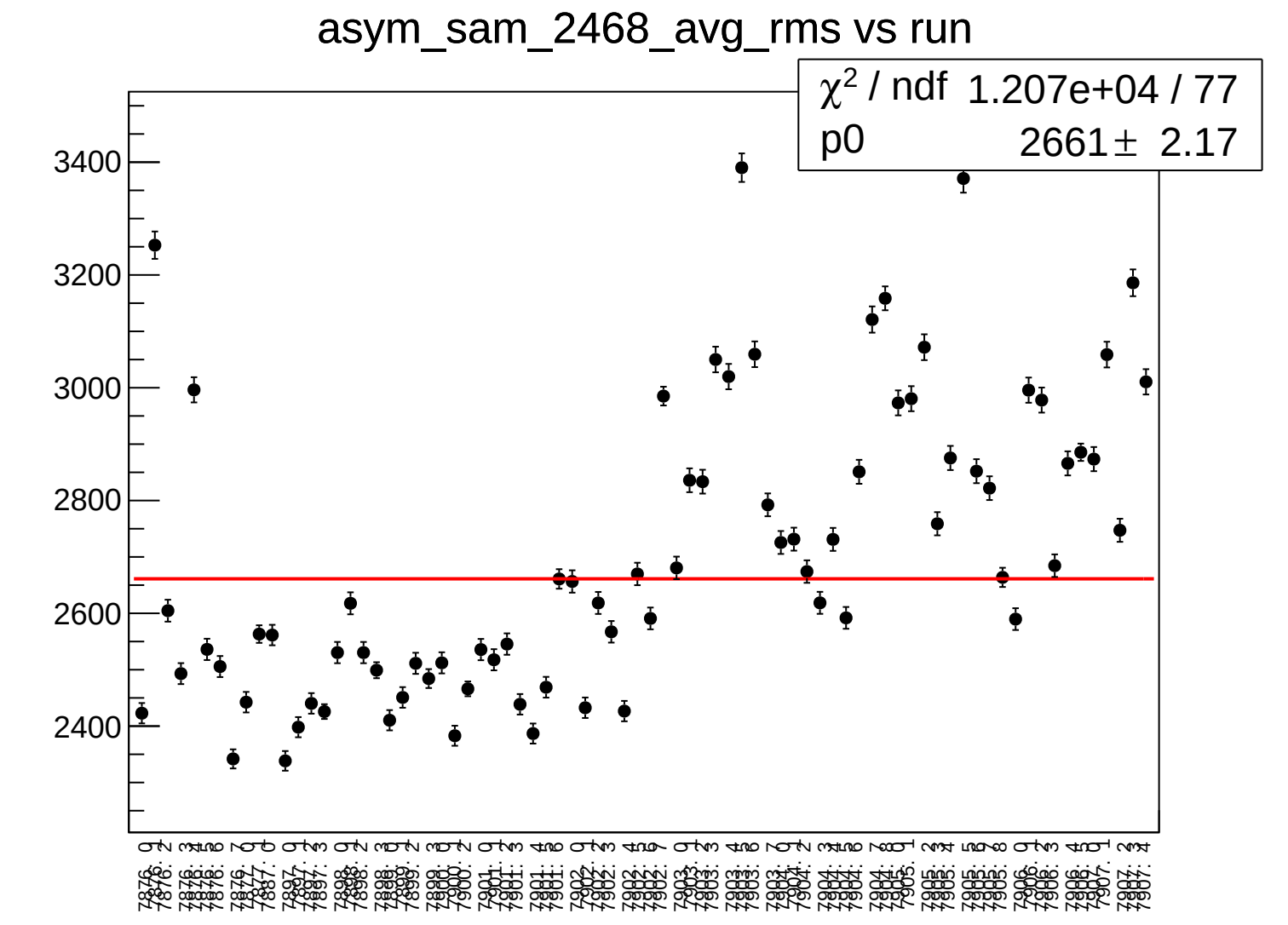

asym_sam_2468_avg_correction_mean vs run
×10^3
χ² / ndf 74.5 / 77
p0 −3914 ± 3057
100
50
0
−50
−100
pull
Entries 78
Mean −3.669
Std Dev 68.8
3
2
1
0
−1
−2

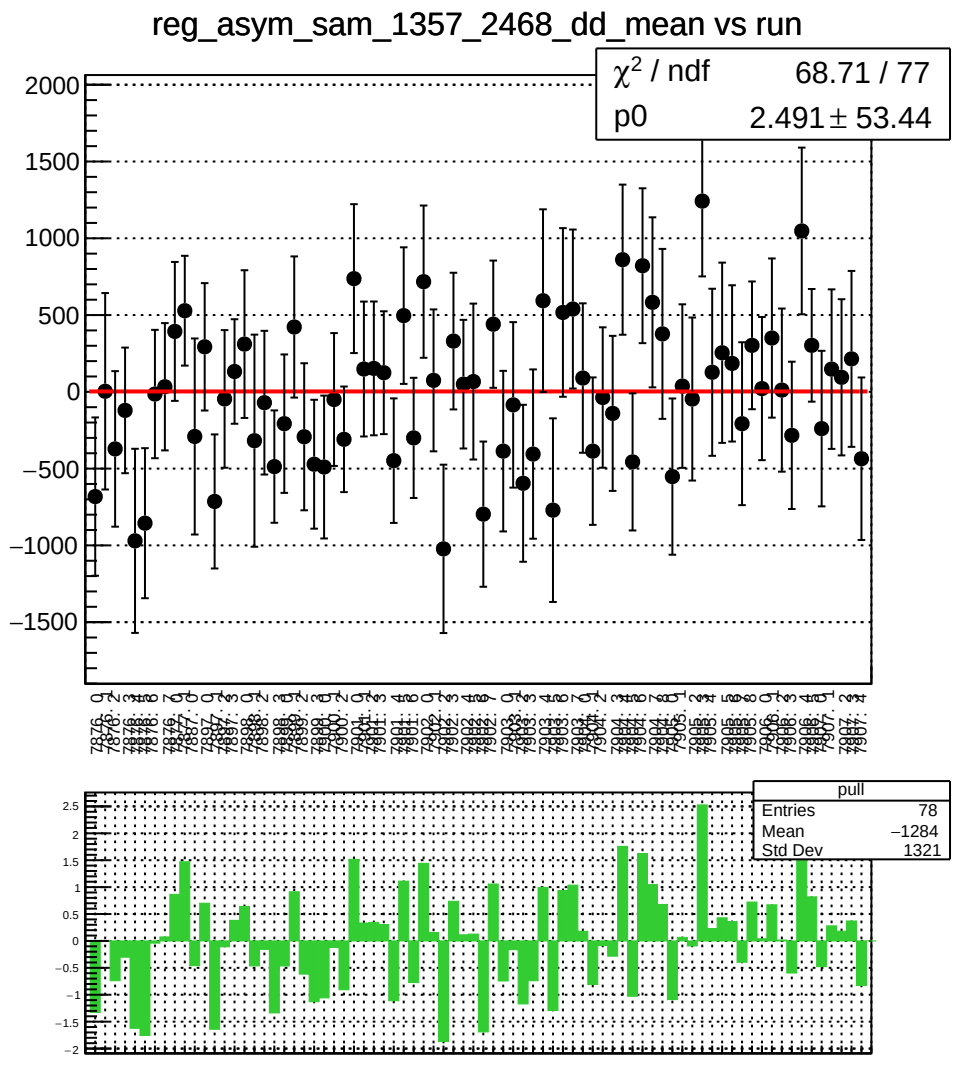

pull1D
Entries 78
Mean 0.01146
Std Dev 0.9772
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

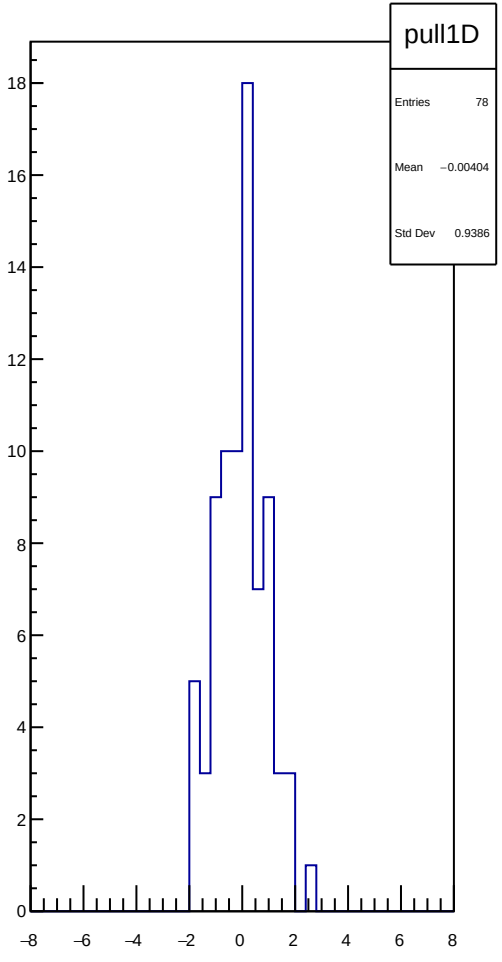

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 1.212e+04 / 77
p0 2651 ± 2.161
3400
3200
3000
2800
2600
2400

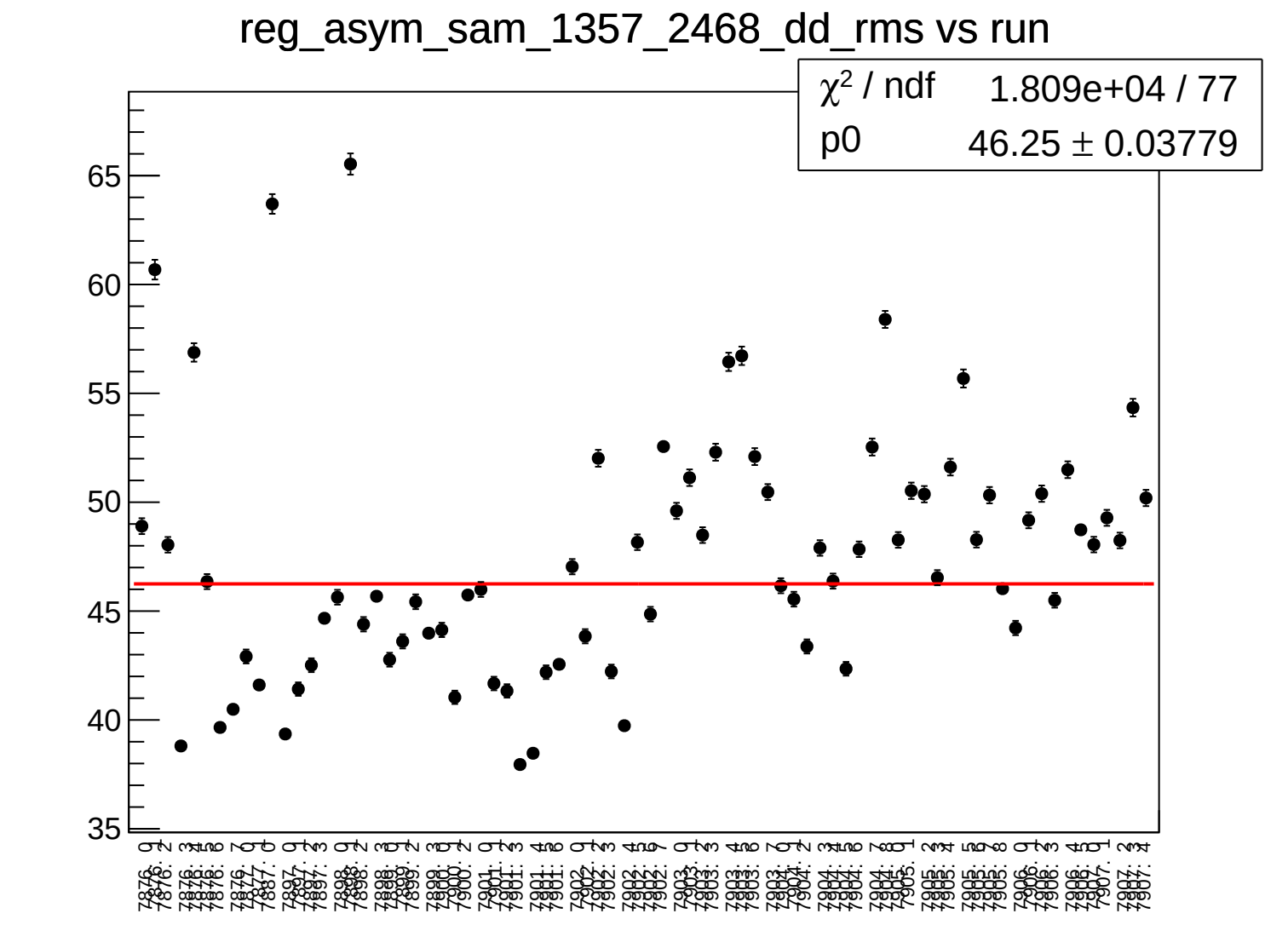

asym_sam_2468_avg_mean vs run
×10^3
χ² / ndf 75.6 / 77
p0 3866 ± 3069
pull
Entries 78
Mean 39.85
Std Dev 77.97

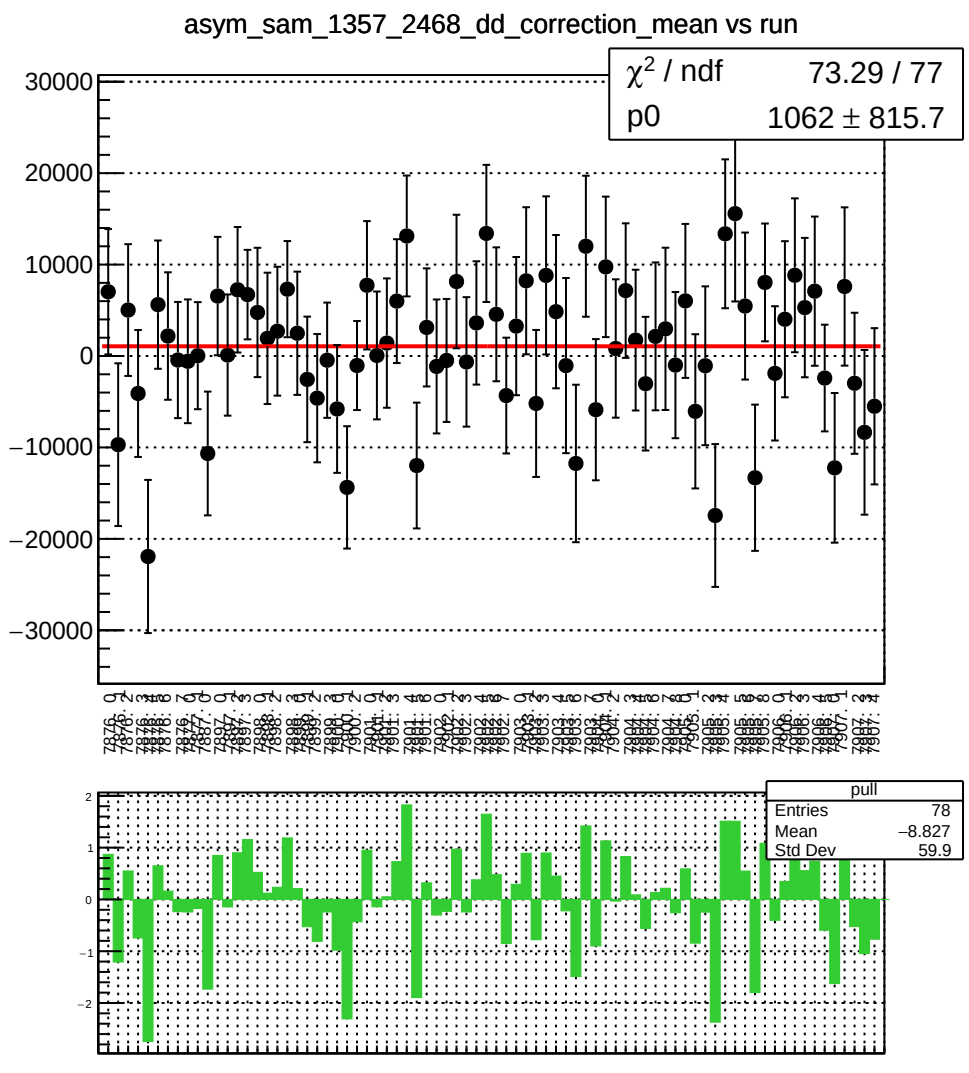

pull1D
Entries 78
Mean −0.01184
Std Dev 0.9844

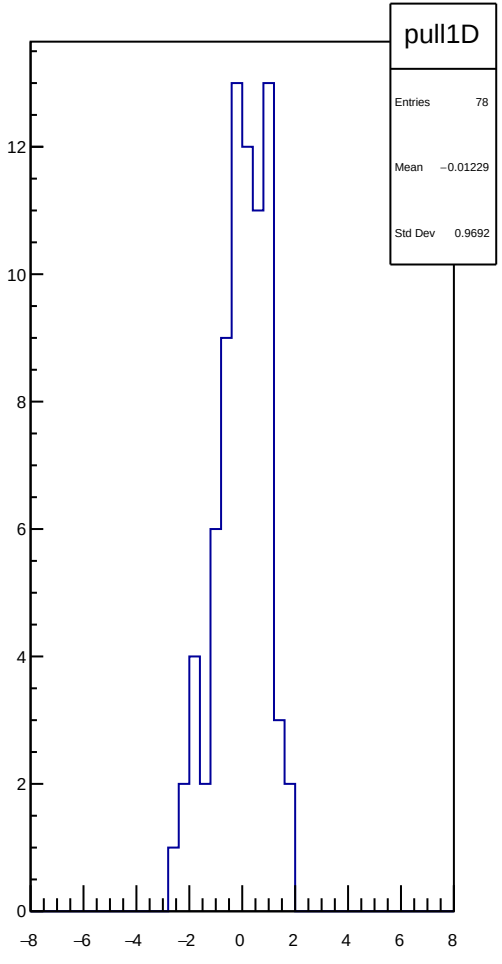

asym_sam_2468_avg_rms vs run
χ² / ndf 1.207e+04 / 77
p0 2661 ± 2.17
3400
3200
3000
2800
2600
2400

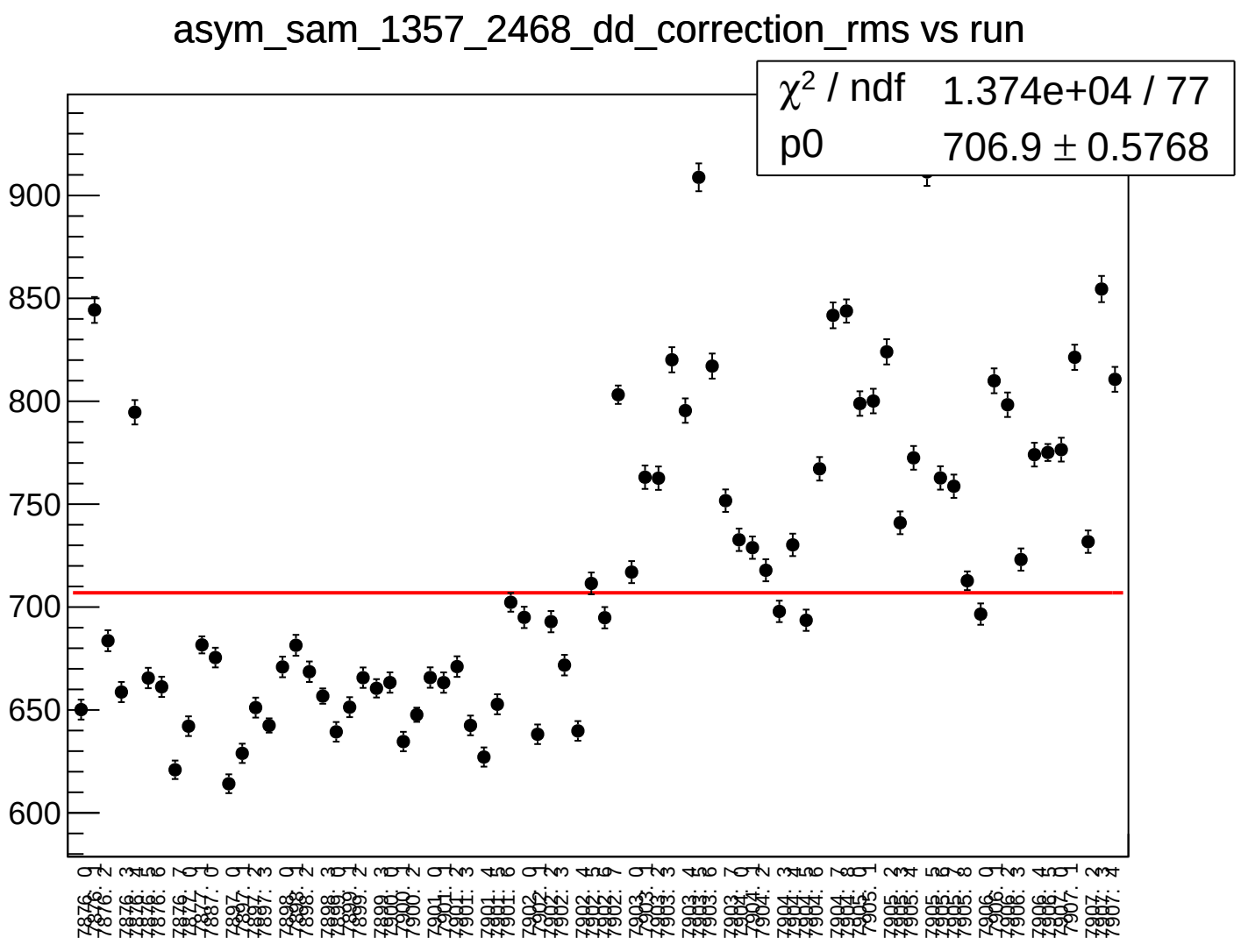

reg_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 68.71 / 77
p0 2.491 ± 53.44
pull
Entries 78
Mean −1284
Std Dev 1321

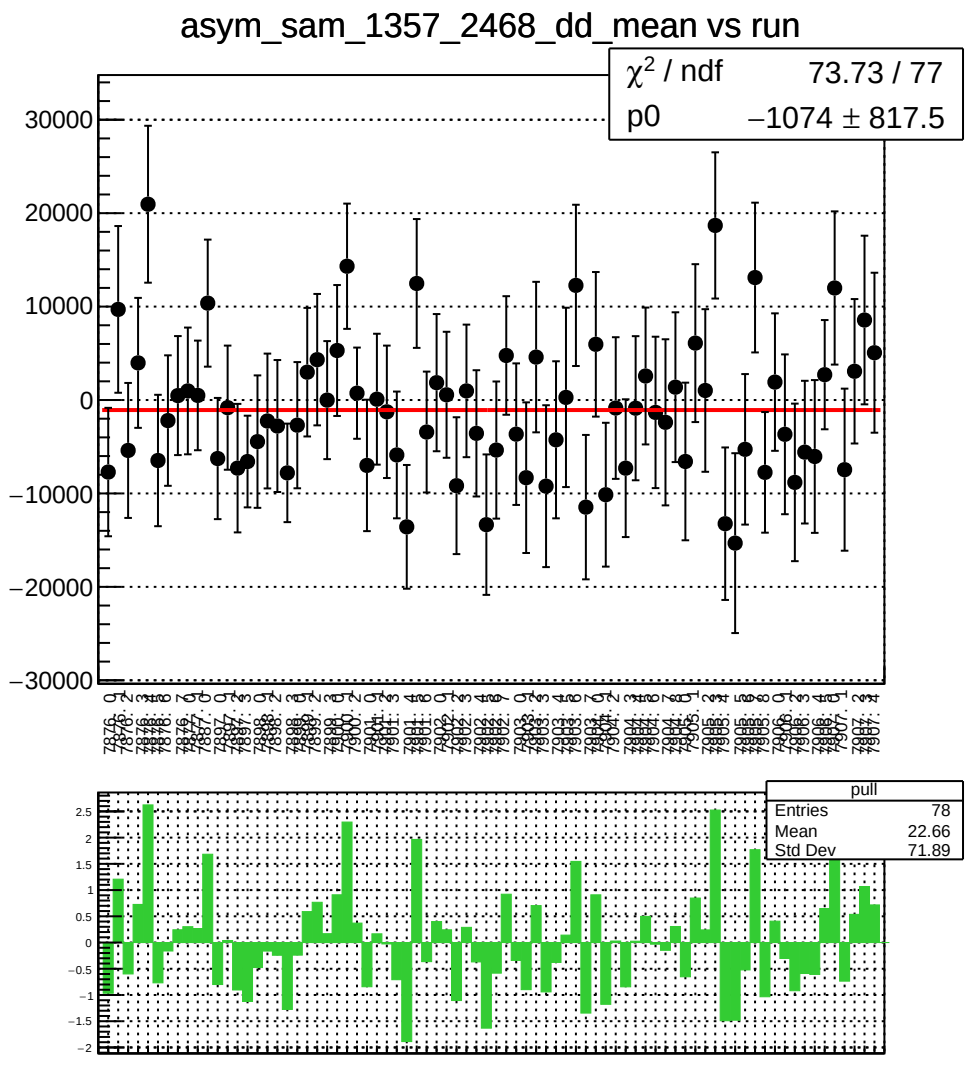

pull1D
Entries 78
Mean −0.00404
Std Dev 0.9386

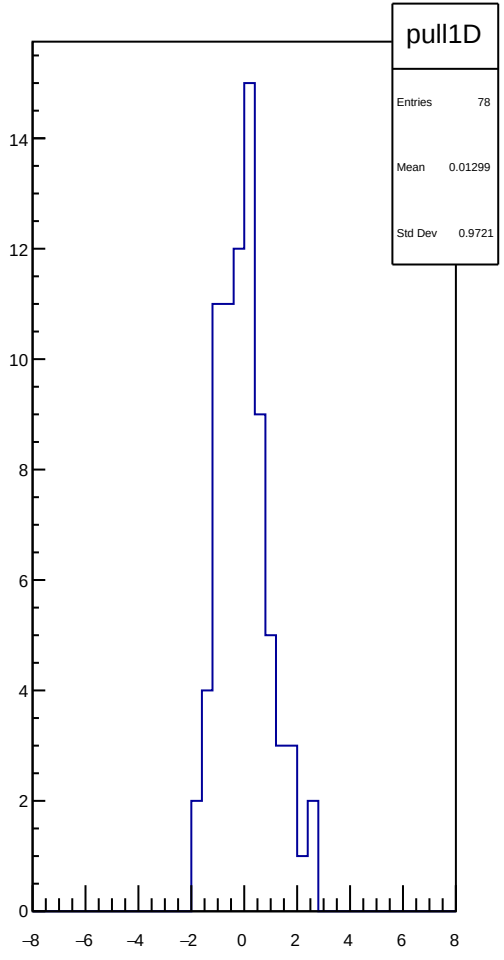

reg_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 1.809e+04 / 77
p0 46.25 ± 0.03779
65
60
55
50
45
40
35

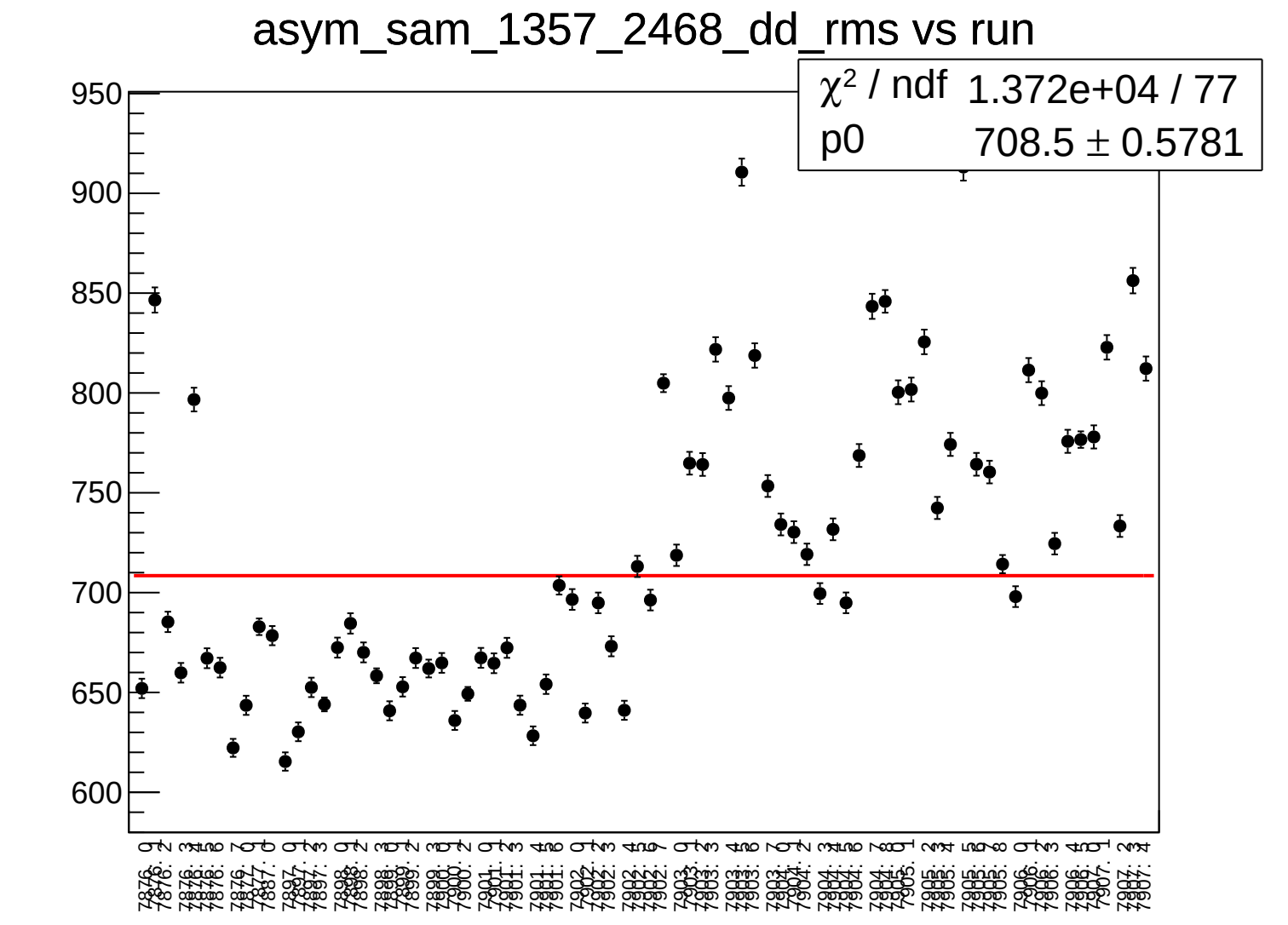

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 73.29 / 77
p0 1062 ± 815.7
pull
Entries 78
Mean −8.827
Std Dev 59.9

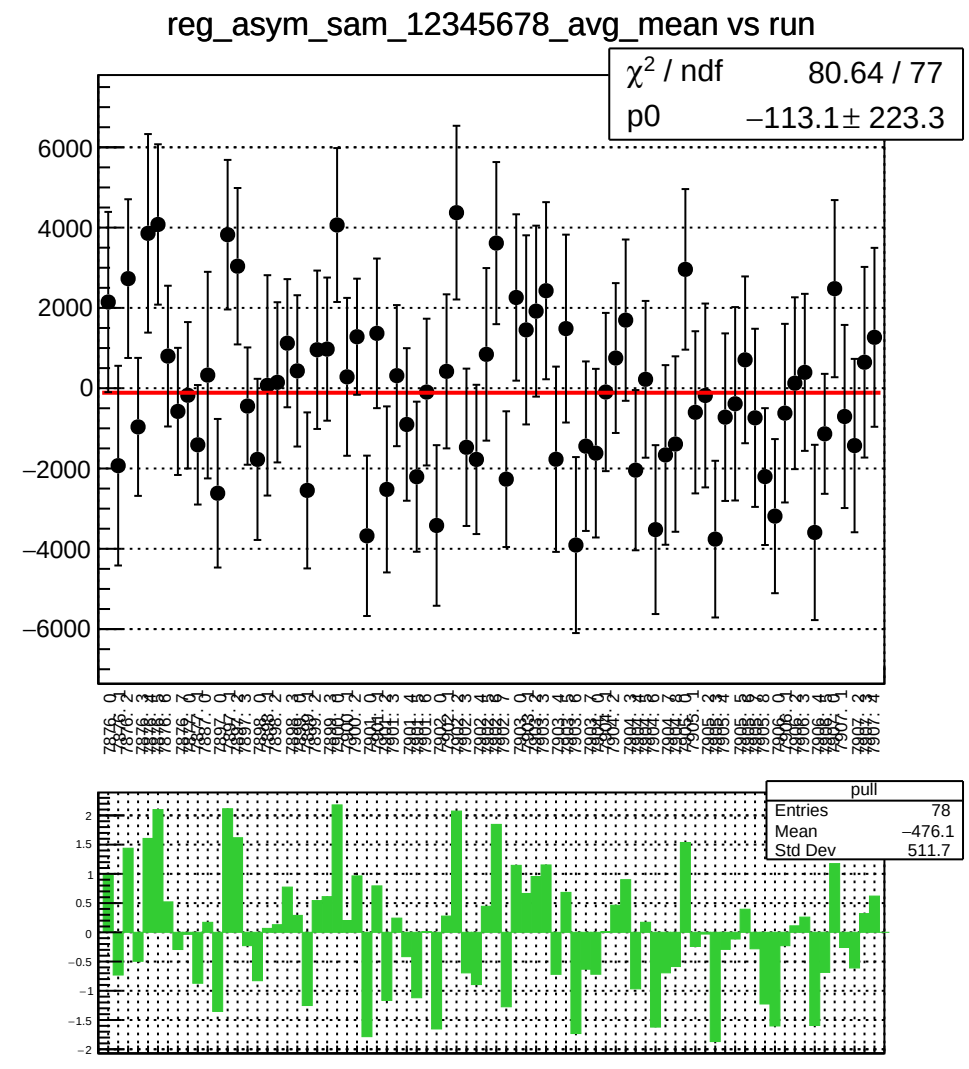

pull1D
Entries 78
Mean −0.01229
Std Dev 0.9692

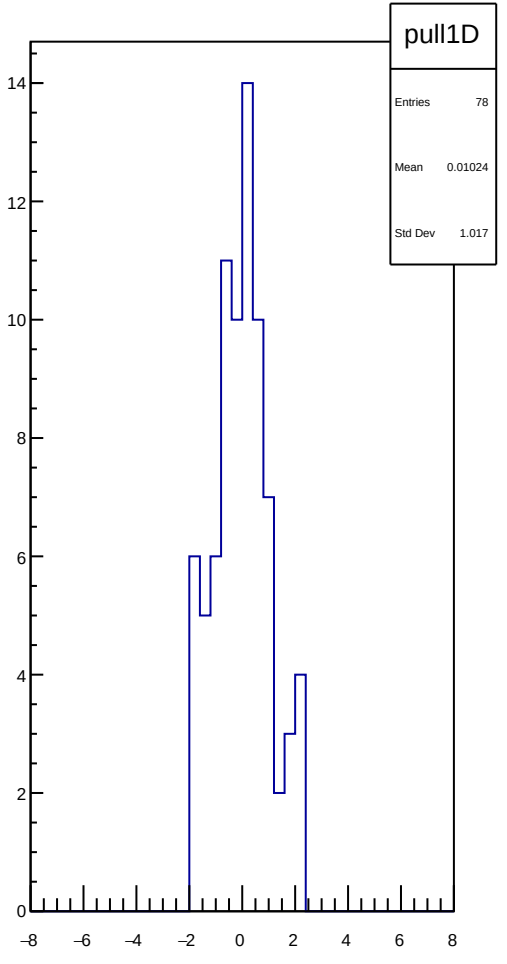

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1.374e+04 / 77
p0 706.9 ± 0.5768
900
850
800
750
700
650
600

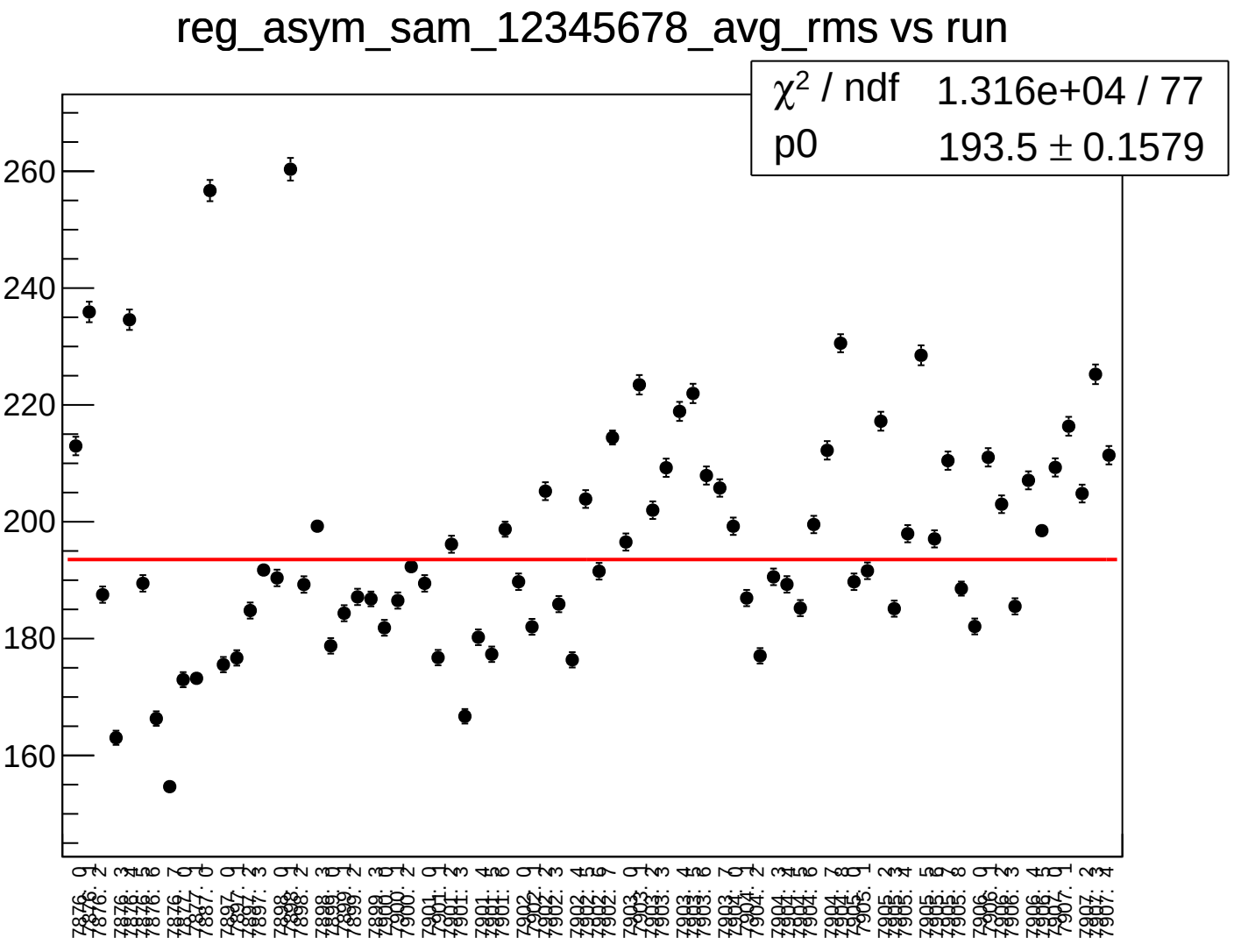

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 73.73 / 77
p0 −1074 ± 817.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean 22.66
Std Dev 71.89
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

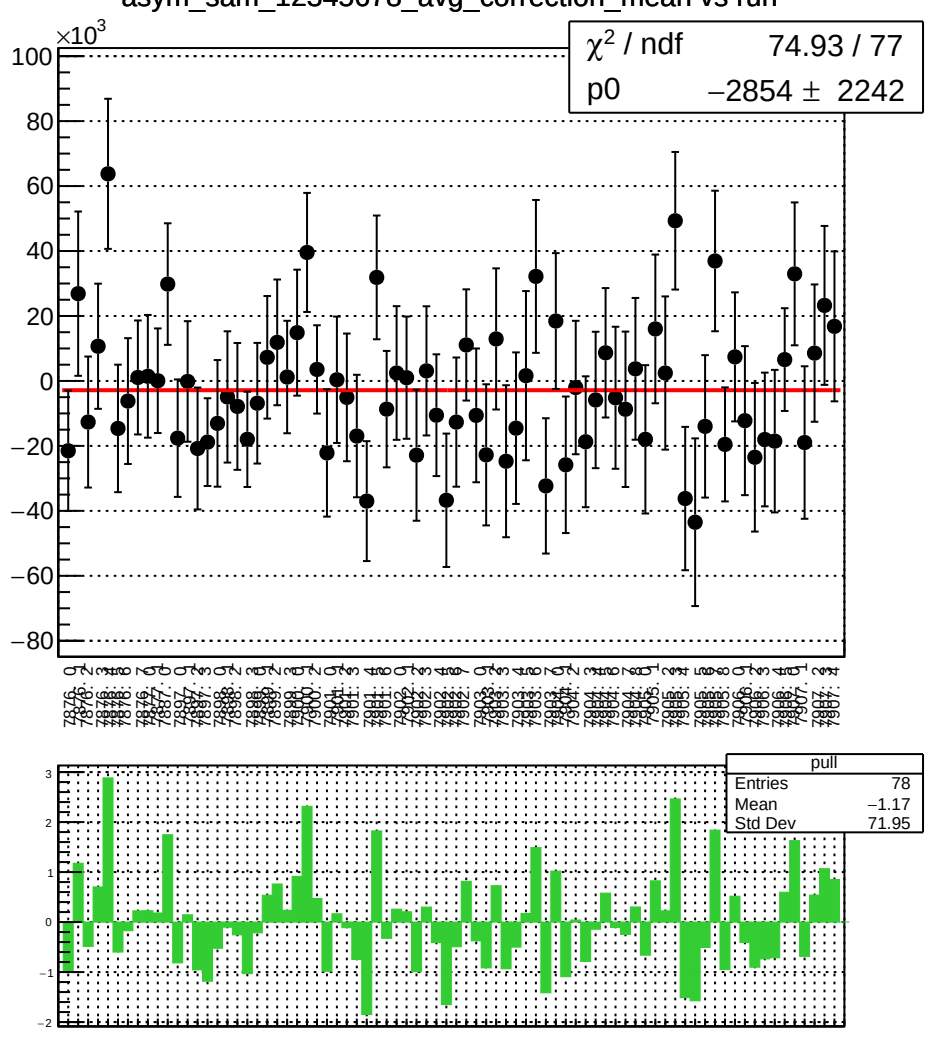

pull1D
Entries 78
Mean 0.01299
Std Dev 0.9721
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

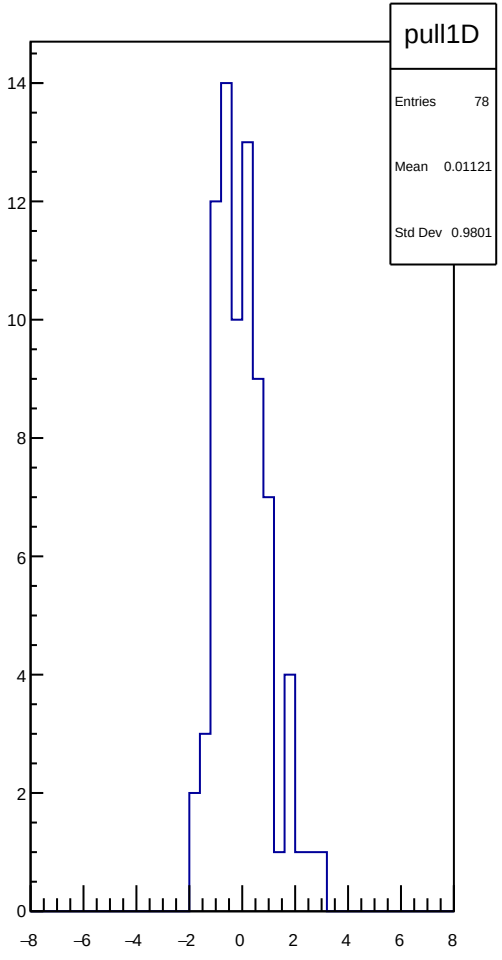

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.372e+04 / 77
p0 708.5 ± 0.5781
950
900
850
800
750
700
650
600

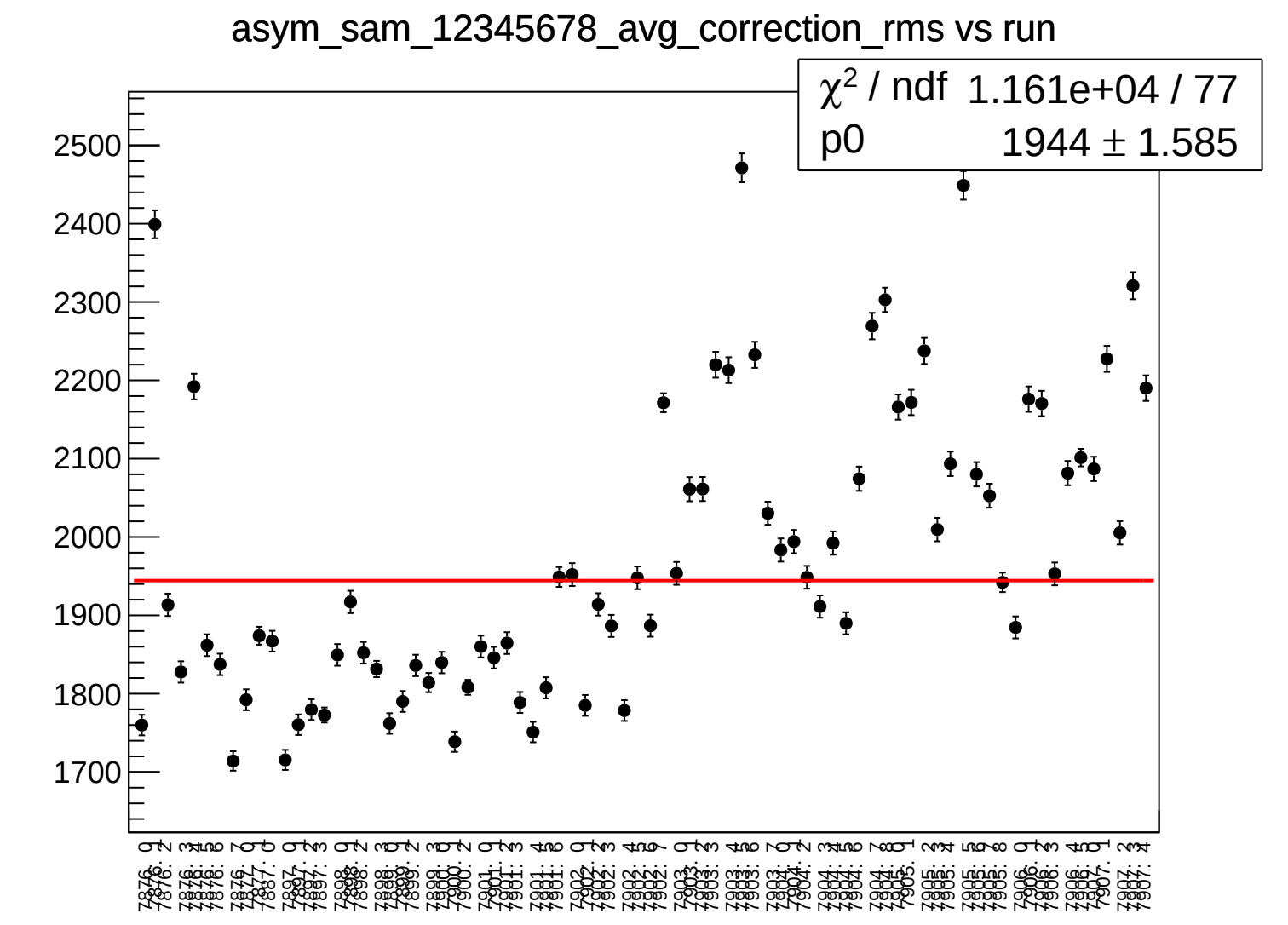

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 80.64 / 77
p0 −113.1± 223.3
pull
Entries 78
Mean −476.1
Std Dev 511.7

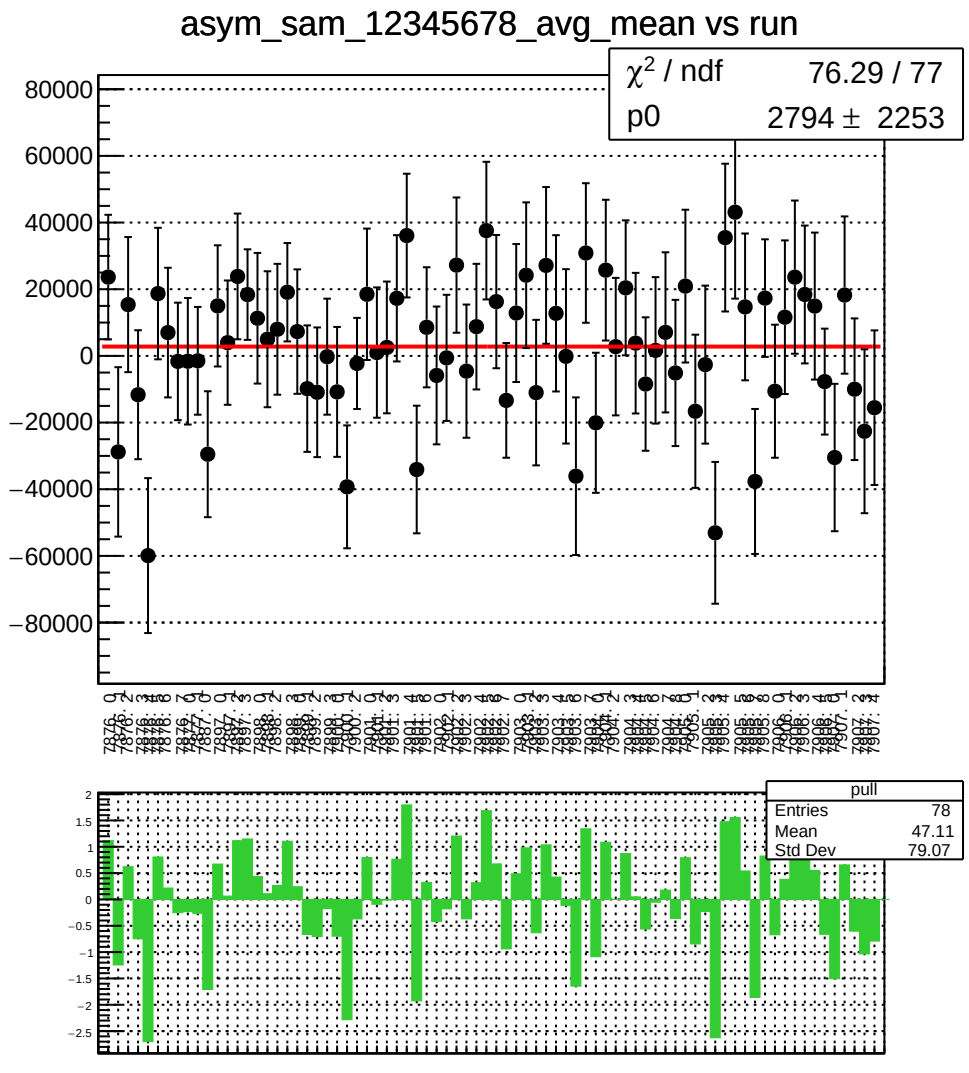

pull1D
Entries 78
Mean 0.01024
Std Dev 1.017

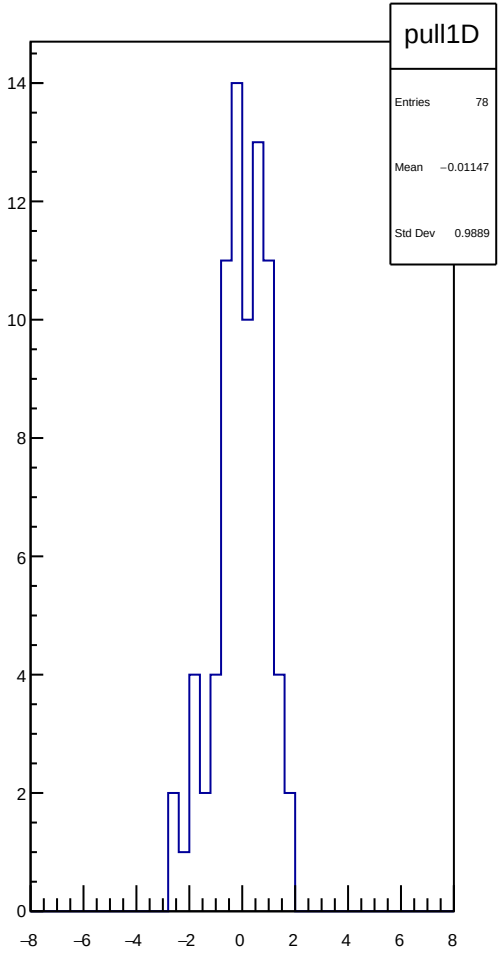

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.316e+04 / 77
p0 193.5 ± 0.1579
260
240
220
200
180
160

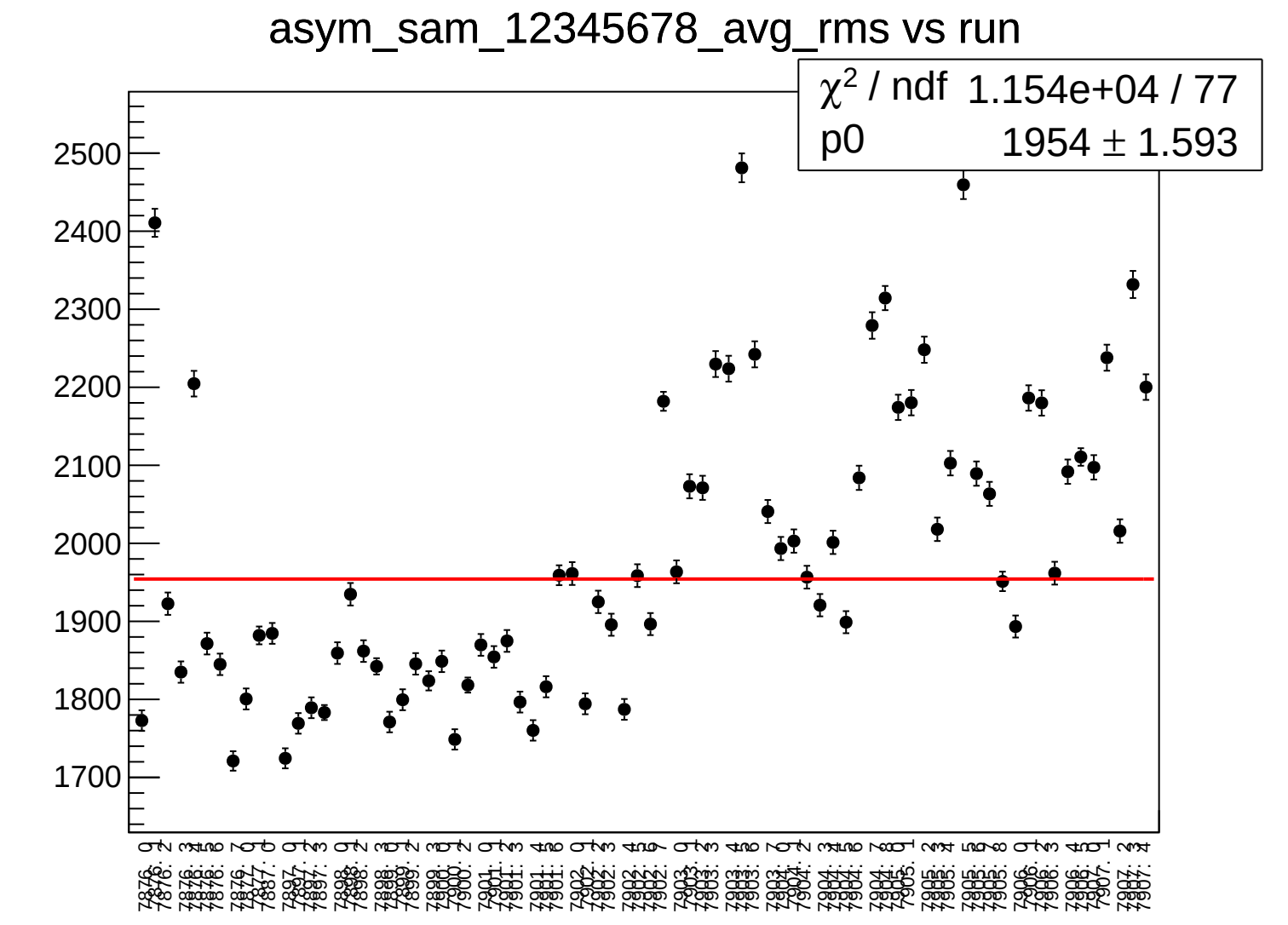

asym_sam_12345678_avg_correction_mean vs run
×10^3
χ² / ndf 74.93 / 77
p0 −2854 ± 2242
pull
Entries 78
Mean −1.17
Std Dev 71.95

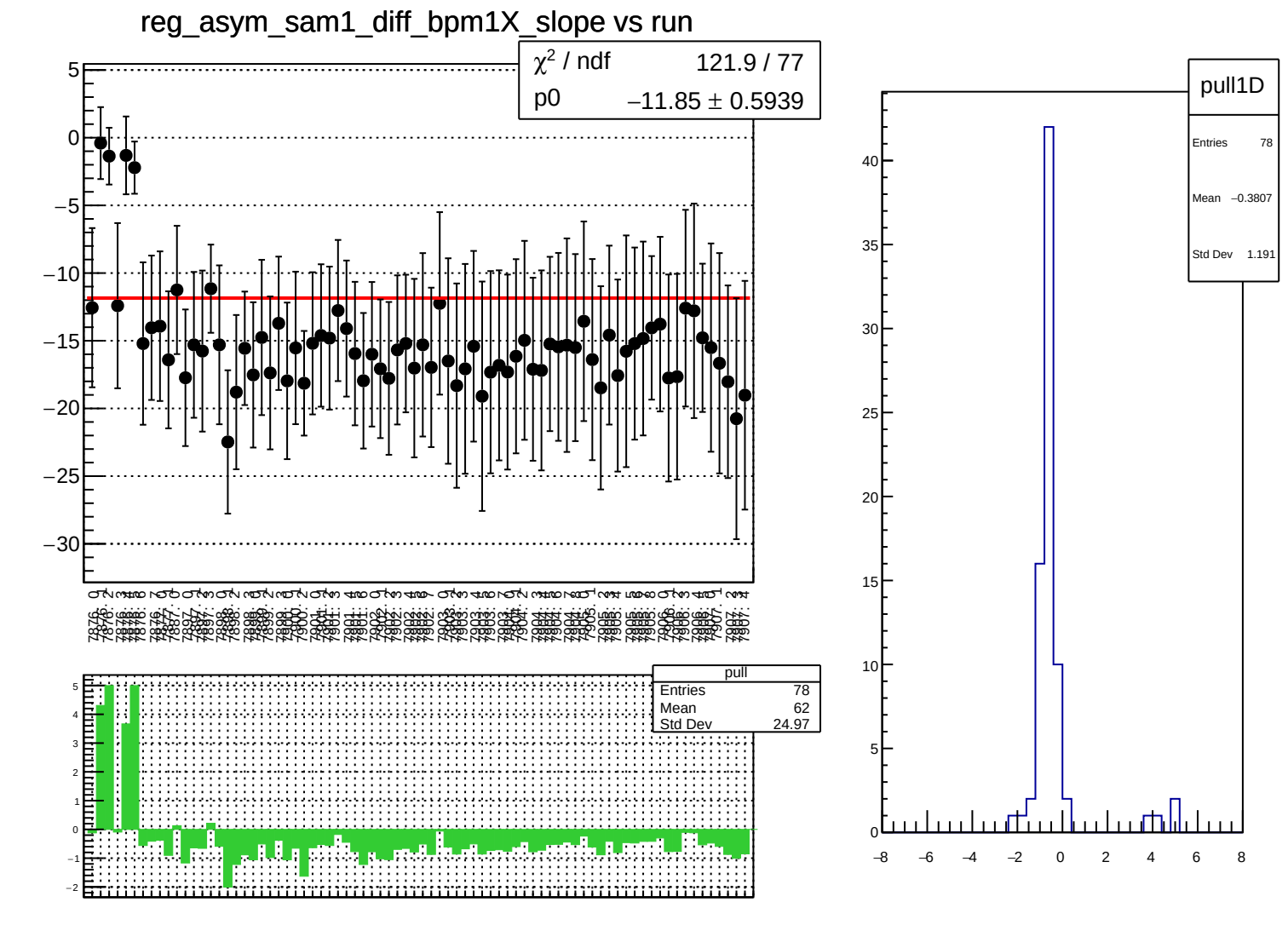

pull1D
Entries 78
Mean 0.01121
Std Dev 0.9801

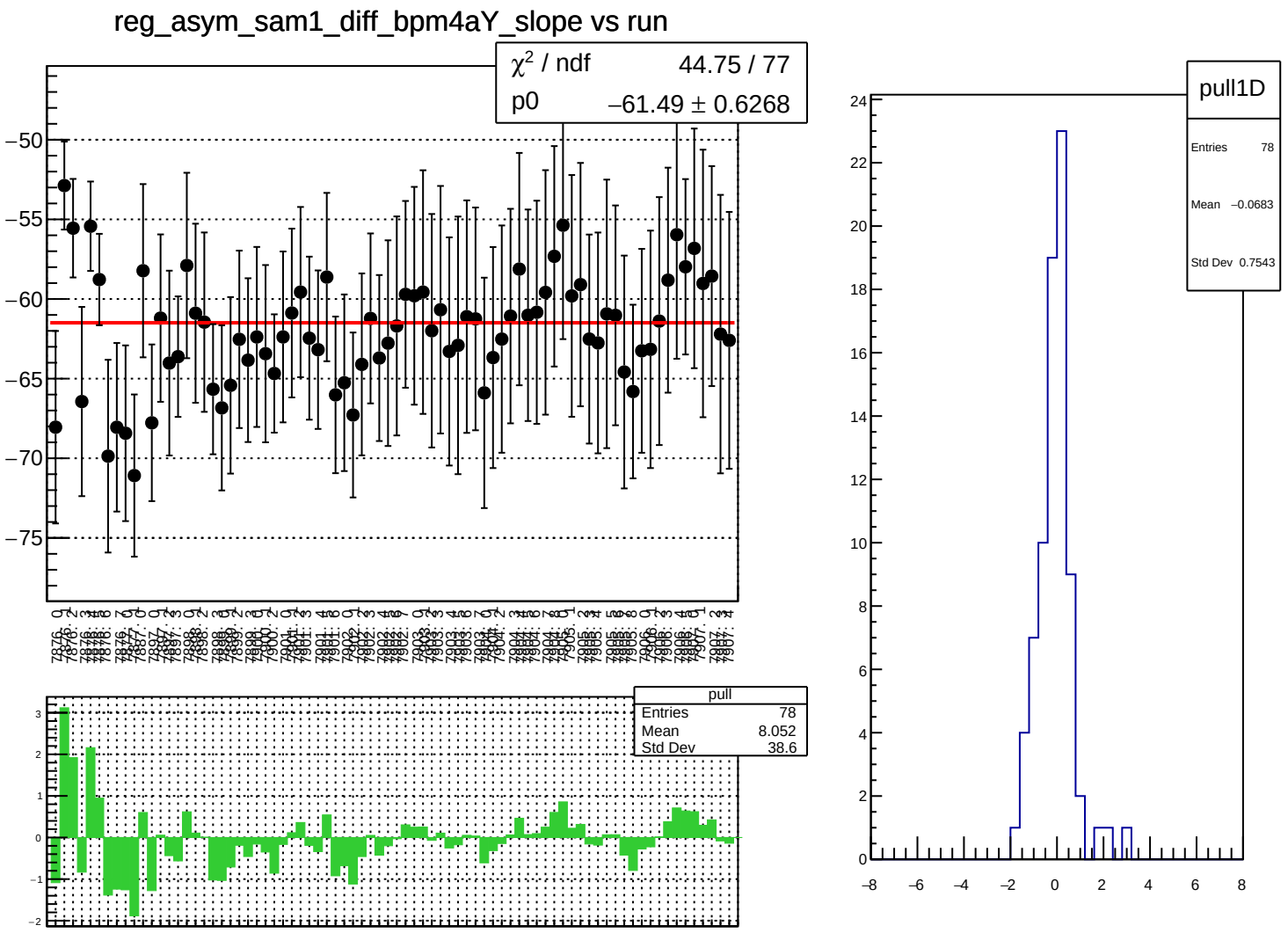

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 1.161e+04 / 77
p0 1944 ± 1.585
2500
2400
2300
2200
2100
2000
1900
1800
1700

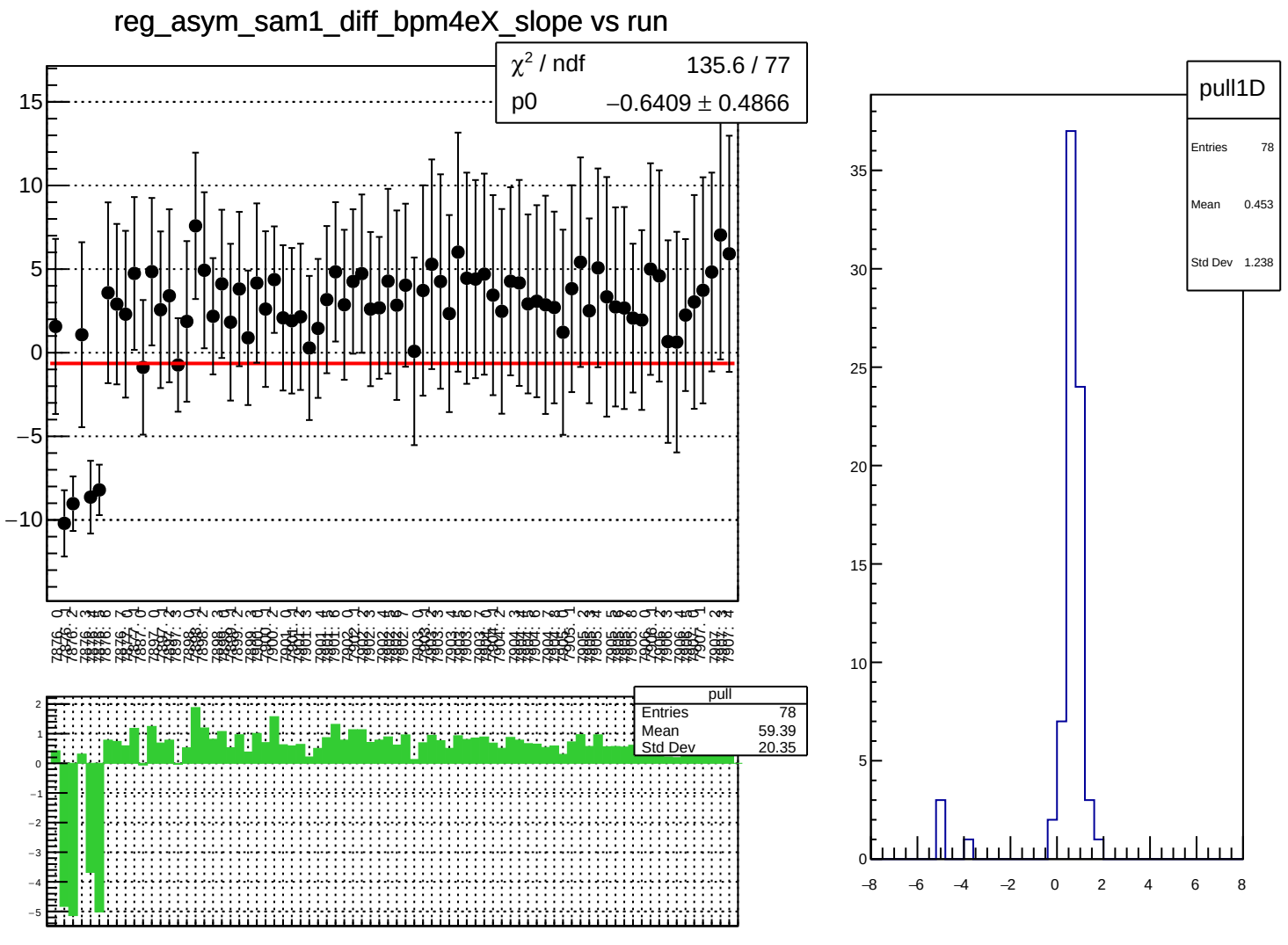

asym_sam_12345678_avg_mean vs run
χ² / ndf 76.29 / 77
p0 2794 ± 2253
pull
Entries 78
Mean 47.11
Std Dev 79.07

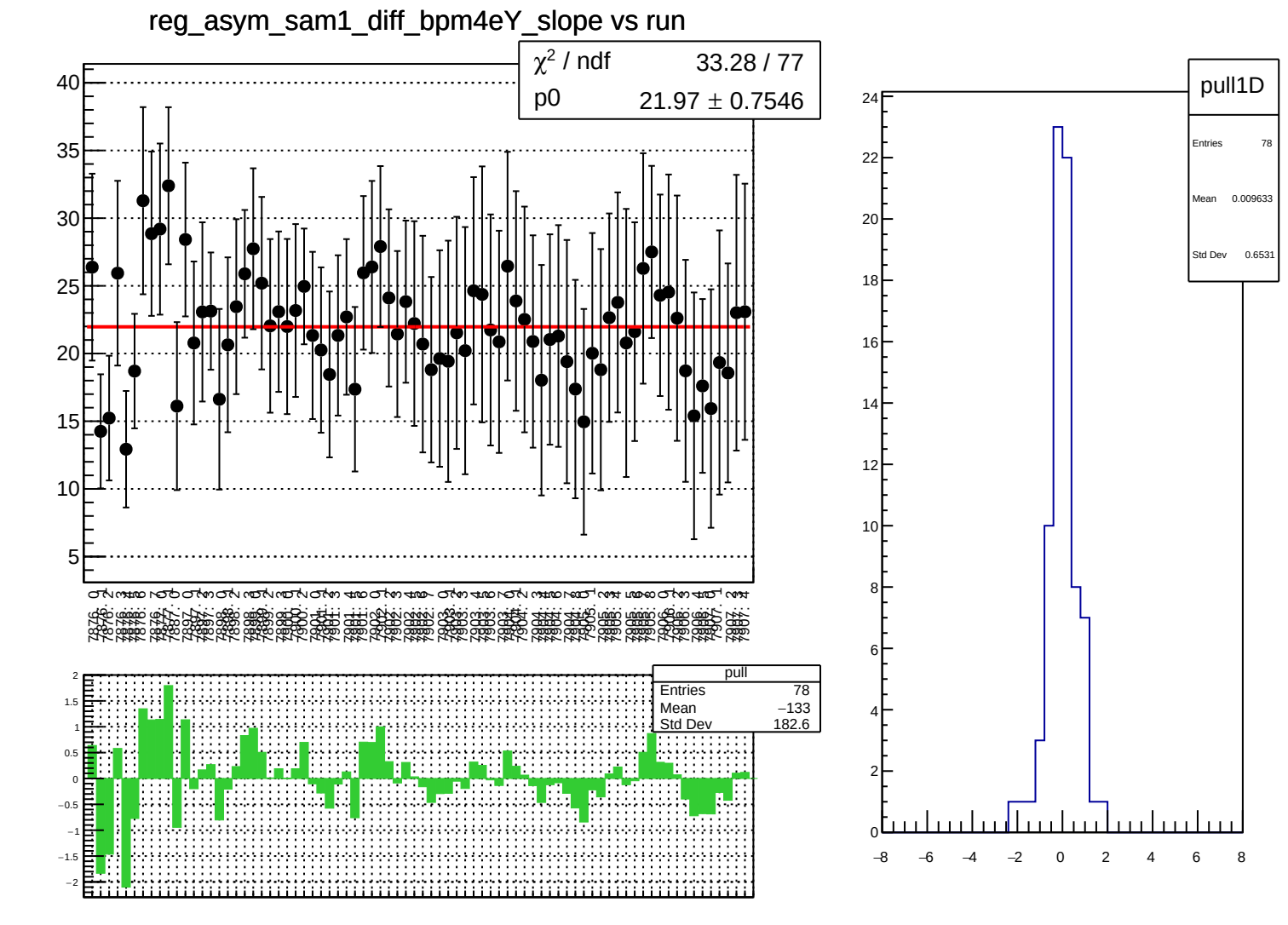

pull1D
Entries 78
Mean −0.01147
Std Dev 0.9889

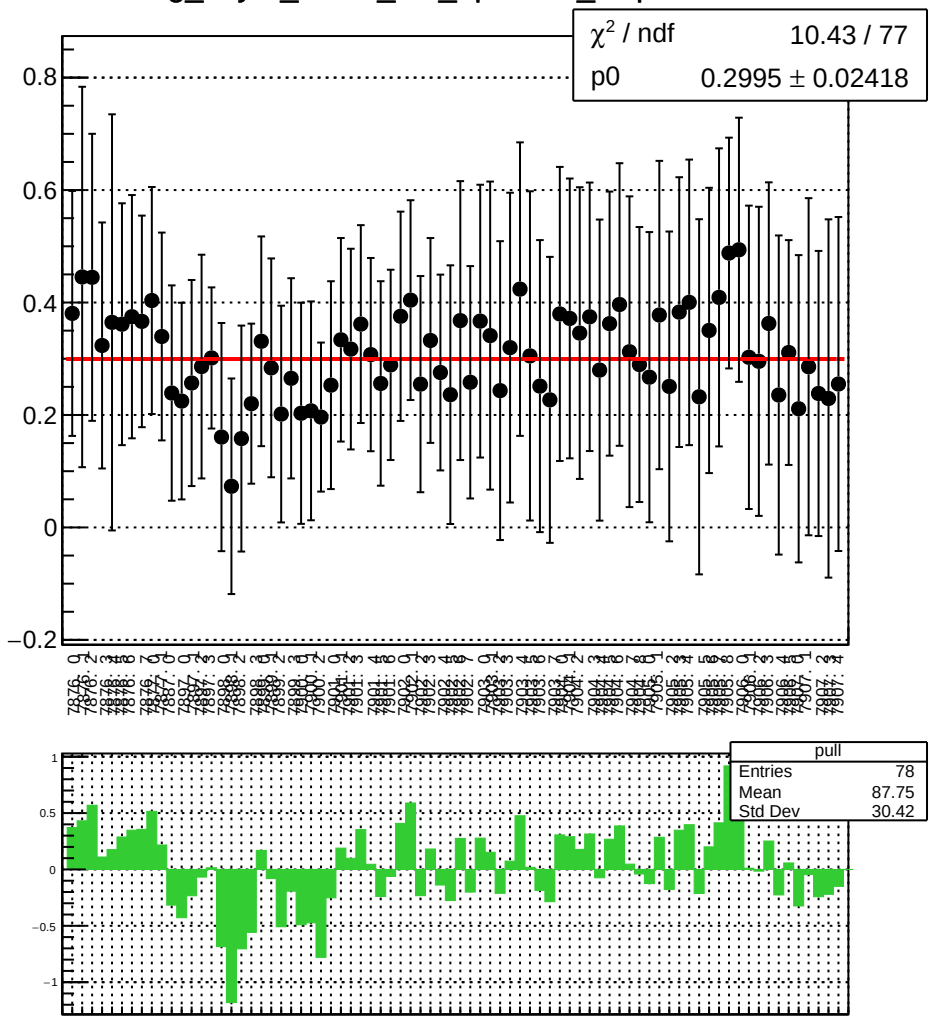

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.154e+04 / 77
p0 1954 ± 1.593
2500
2400
2300
2200
2100
2000
1900
1800
1700

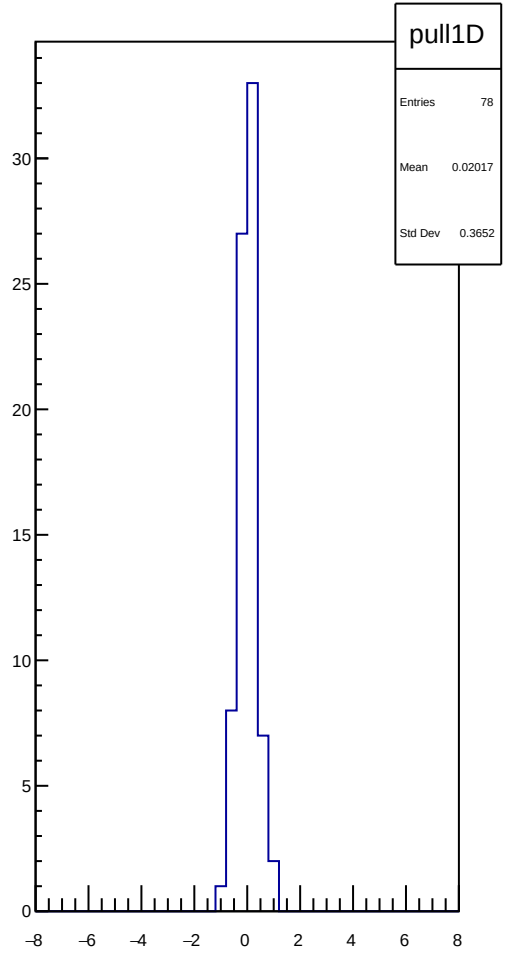

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 121.9 / 77
p0 −11.85 ± 0.5939
pull
Entries 78
Mean 62
Std Dev 24.97
pull1D
Entries 78
Mean −0.3807
Std Dev 1.191

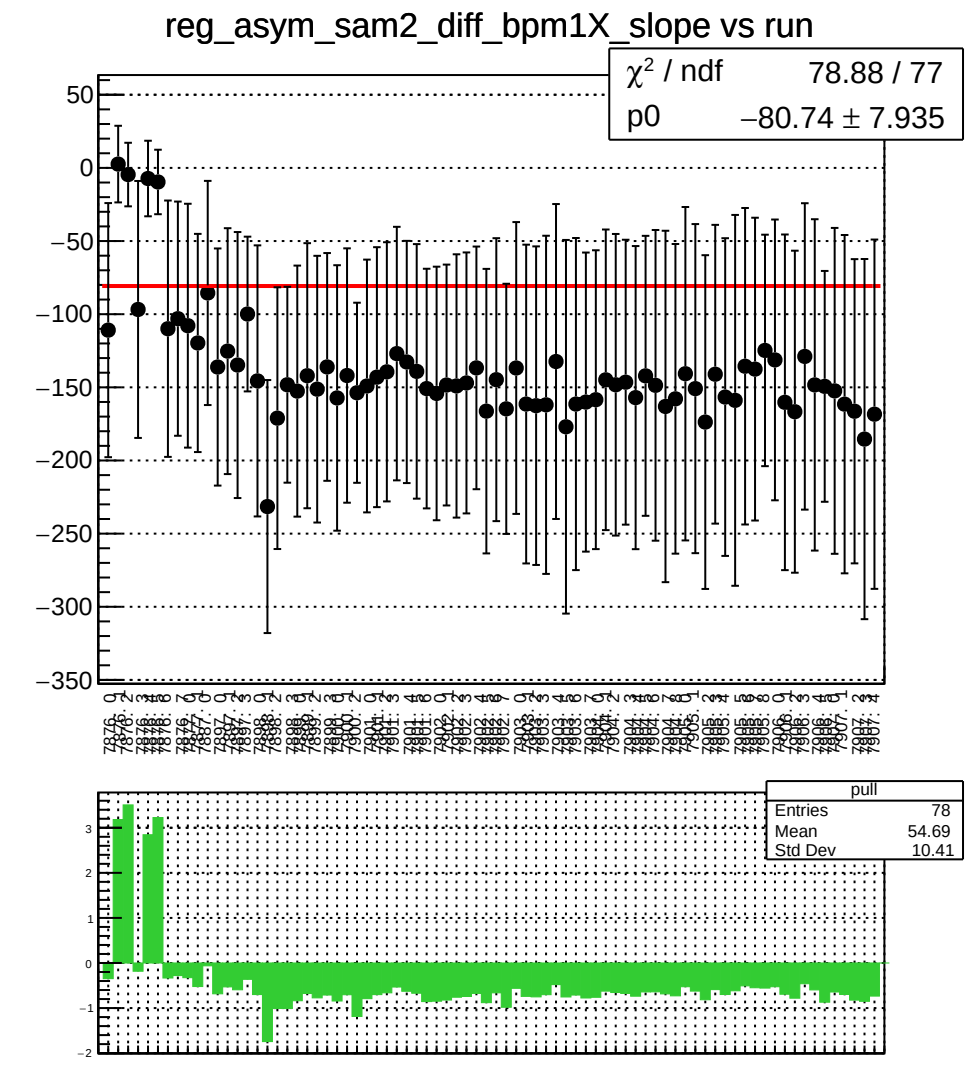

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 44.75 / 77
p0 −61.49 ± 0.6268
pull
Entries 78
Mean 8.052
Std Dev 38.6
pull1D
Entries 78
Mean −0.0683
Std Dev 0.7543

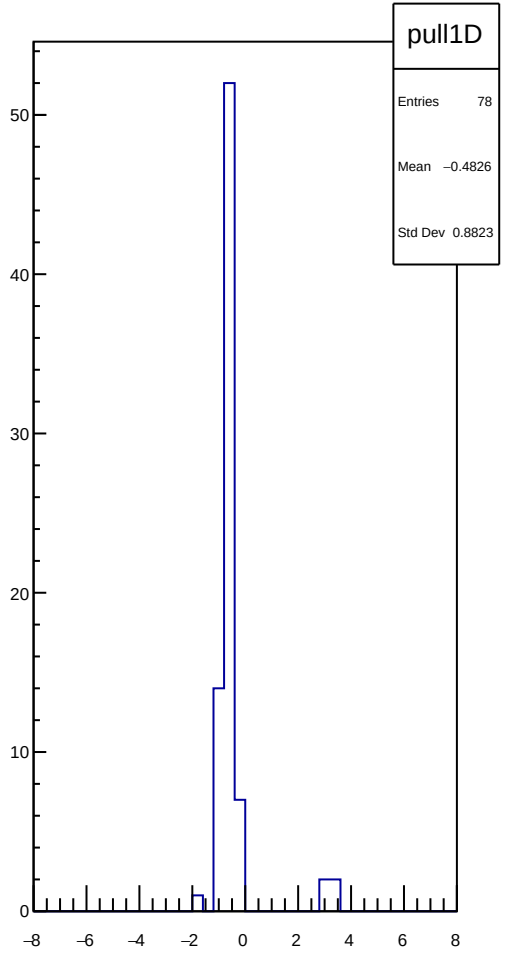

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 135.6 / 77
p0 −0.6409 ± 0.4866
pull
Entries 78
Mean 59.39
Std Dev 20.35
pull1D
Entries 78
Mean 0.453
Std Dev 1.238

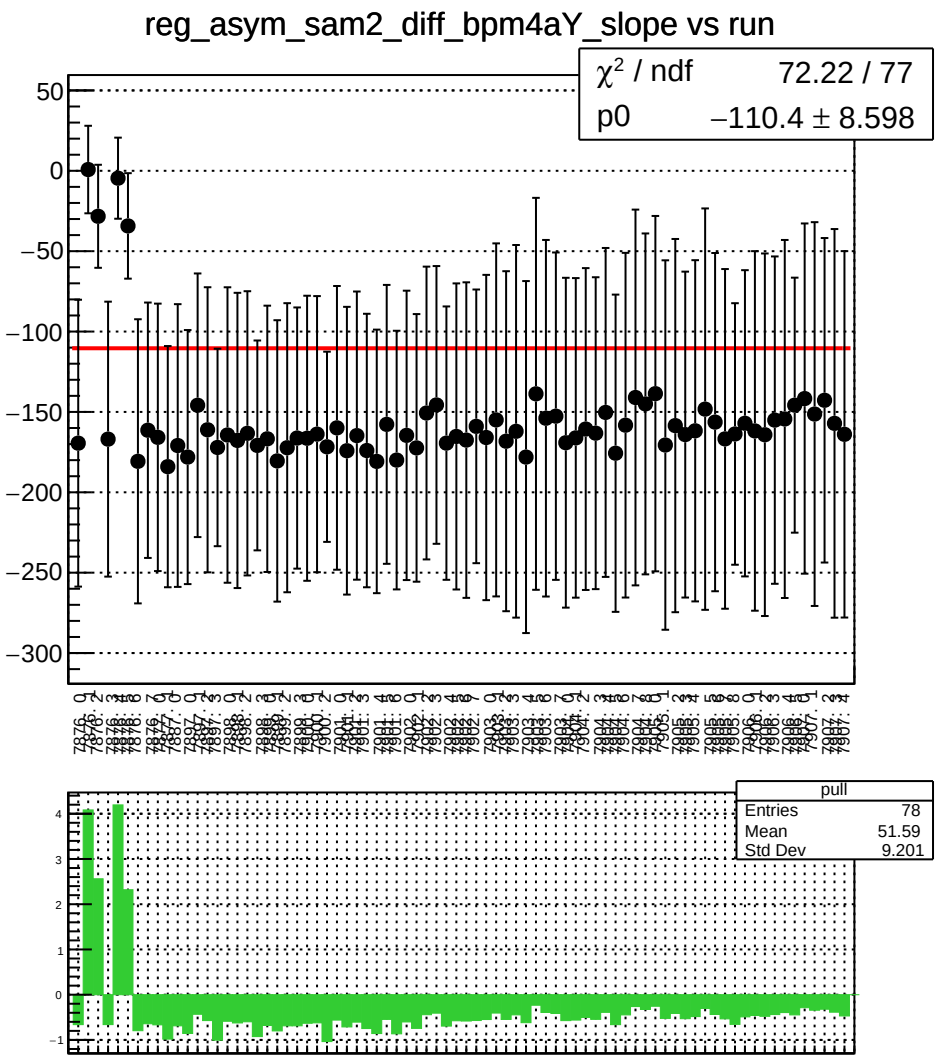

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 33.28 / 77
p0 21.97 ± 0.7546
pull
Entries 78
Mean −133
Std Dev 182.6
pull1D
Entries 78
Mean 0.009633
Std Dev 0.6531

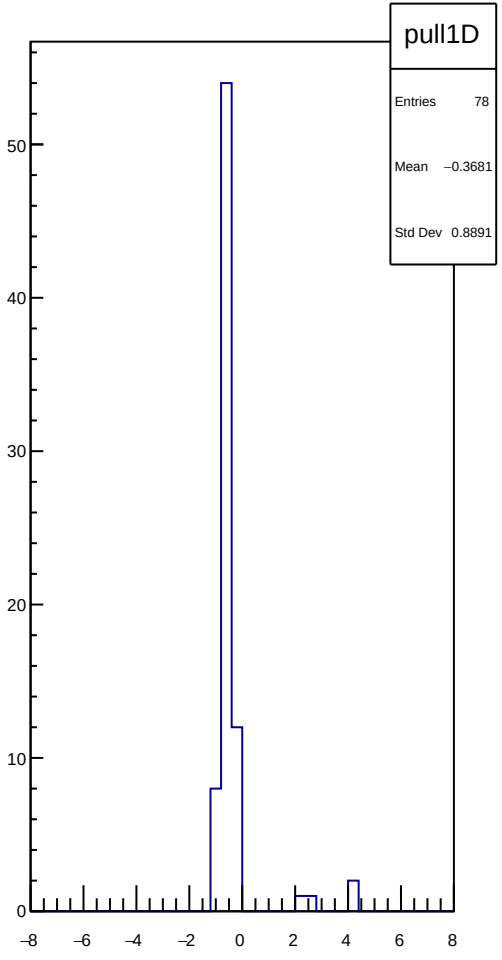

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 10.43 / 77
p0 0.2995 ± 0.02418
pull
Entries 78
Mean 87.75
Std Dev 30.42

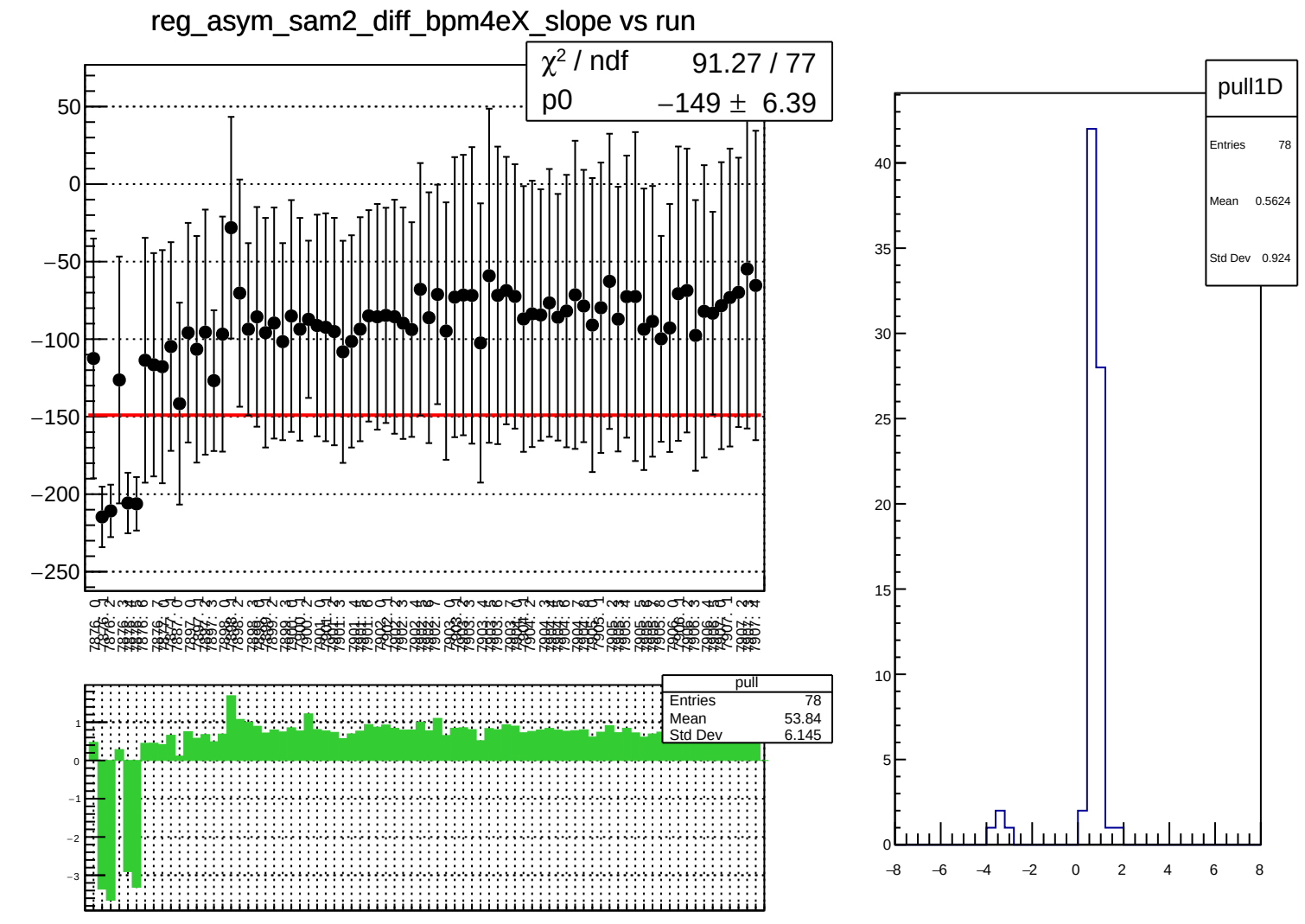

pull1D
Entries 78
Mean 0.02017
Std Dev 0.3652

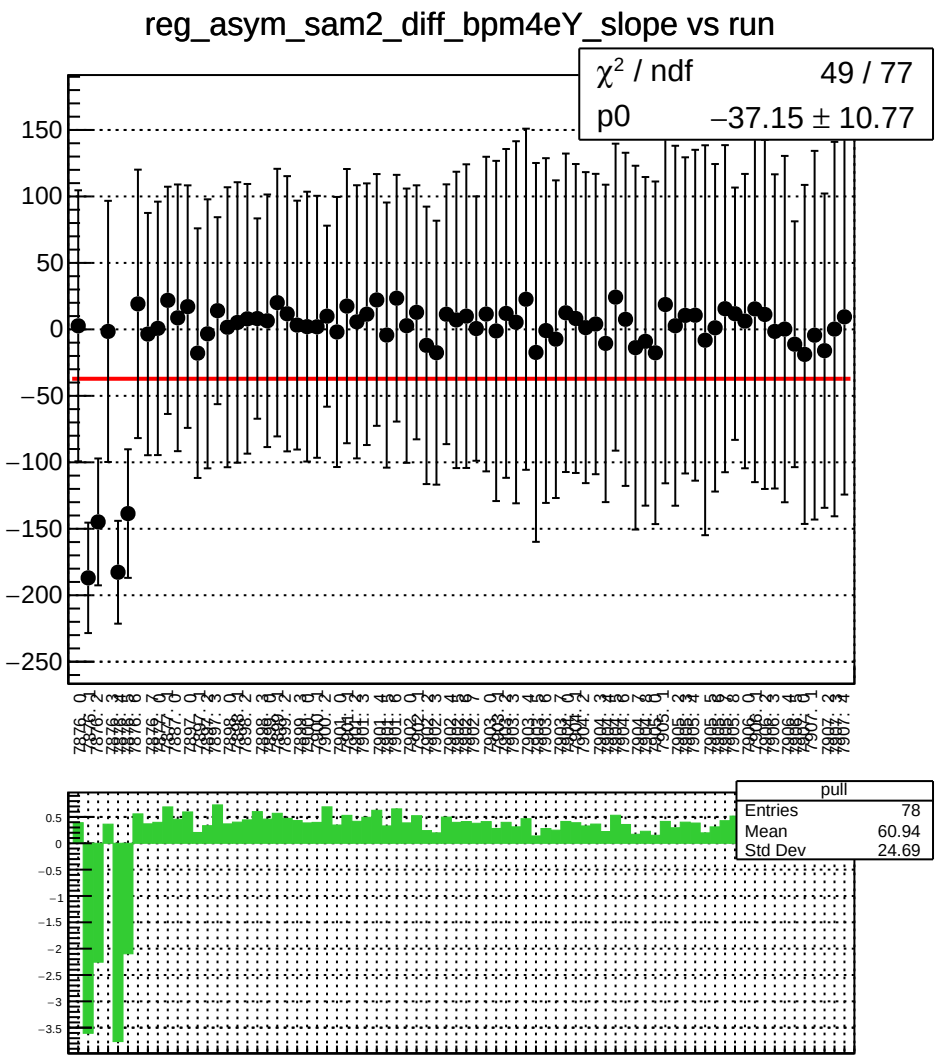

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 78.88 / 77
p0 −80.74 ± 7.935
pull
Entries 78
Mean 54.69
Std Dev 10.41

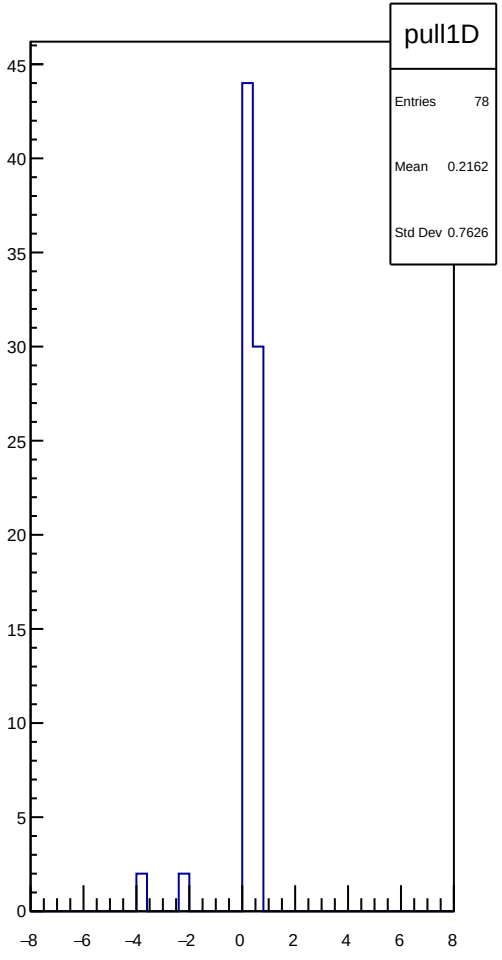

pull1D
Entries 78
Mean −0.4826
Std Dev 0.8823

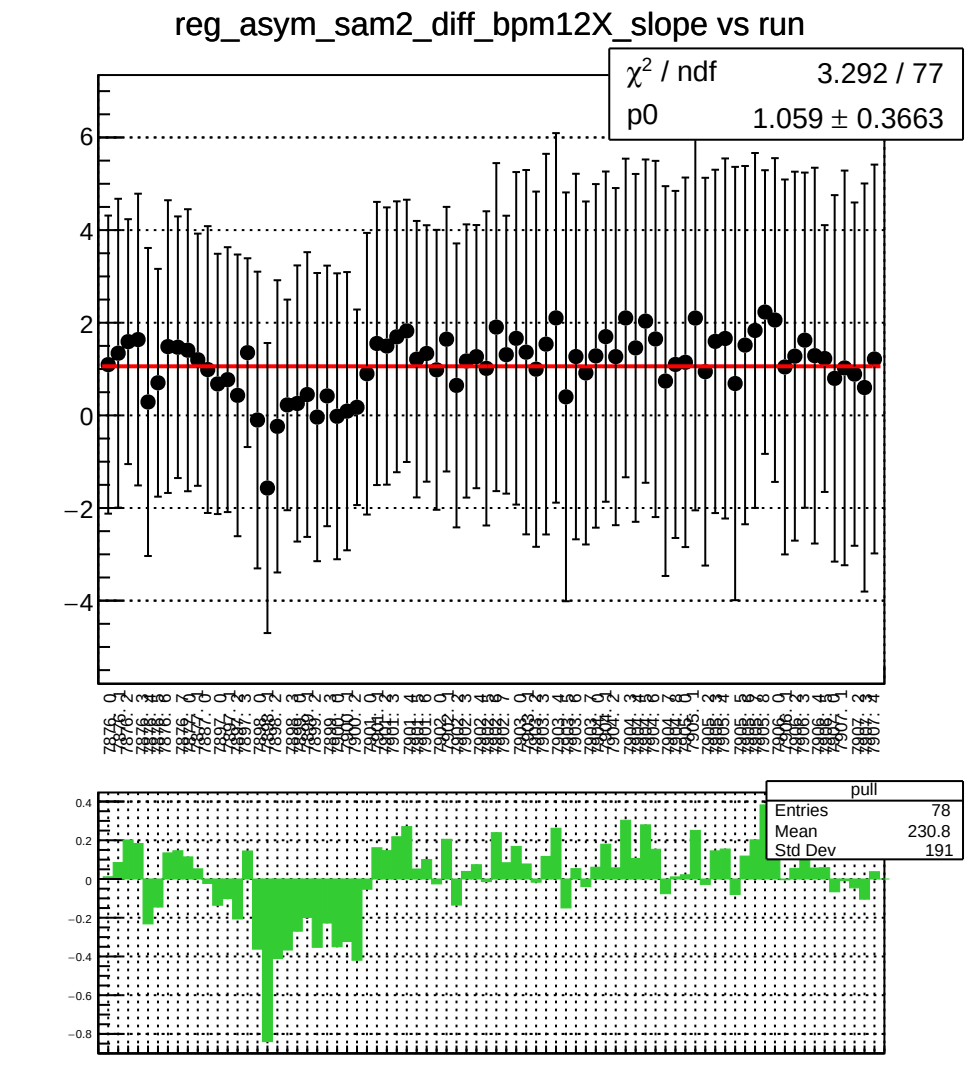

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 72.22 / 77
p0 −110.4 ± 8.598
pull
Entries 78
Mean 51.59
Std Dev 9.201

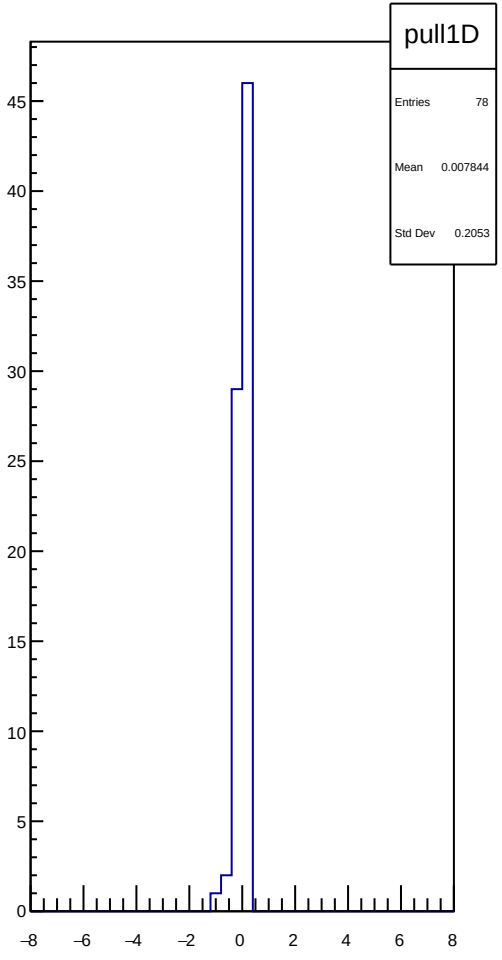

pull1D
Entries 78
Mean −0.3681
Std Dev 0.8891

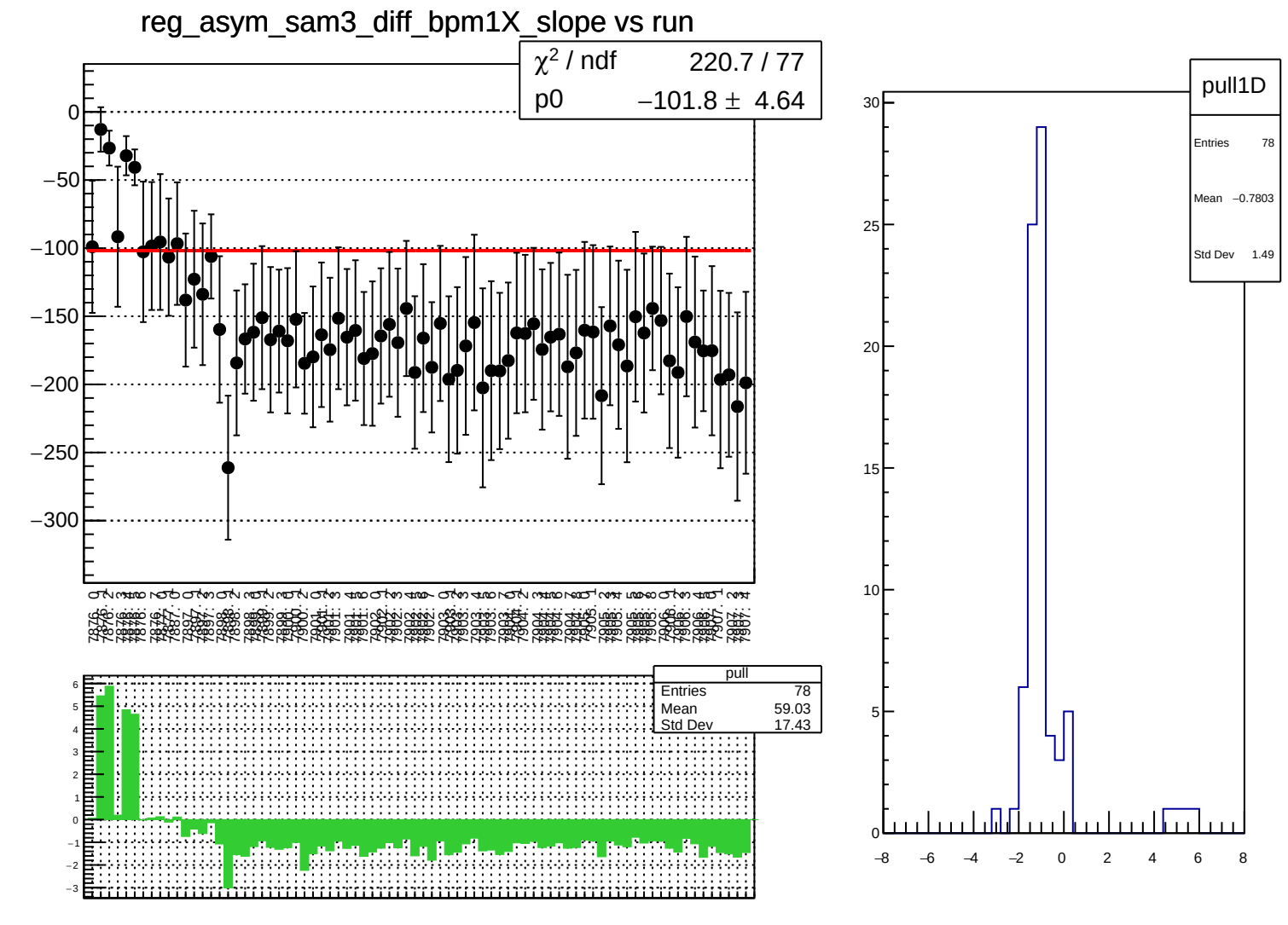

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 91.27 / 77
p0 −149 ± 6.39
pull
Entries 78
Mean 53.84
Std Dev 6.145
pull1D
Entries 78
Mean 0.5624
Std Dev 0.924

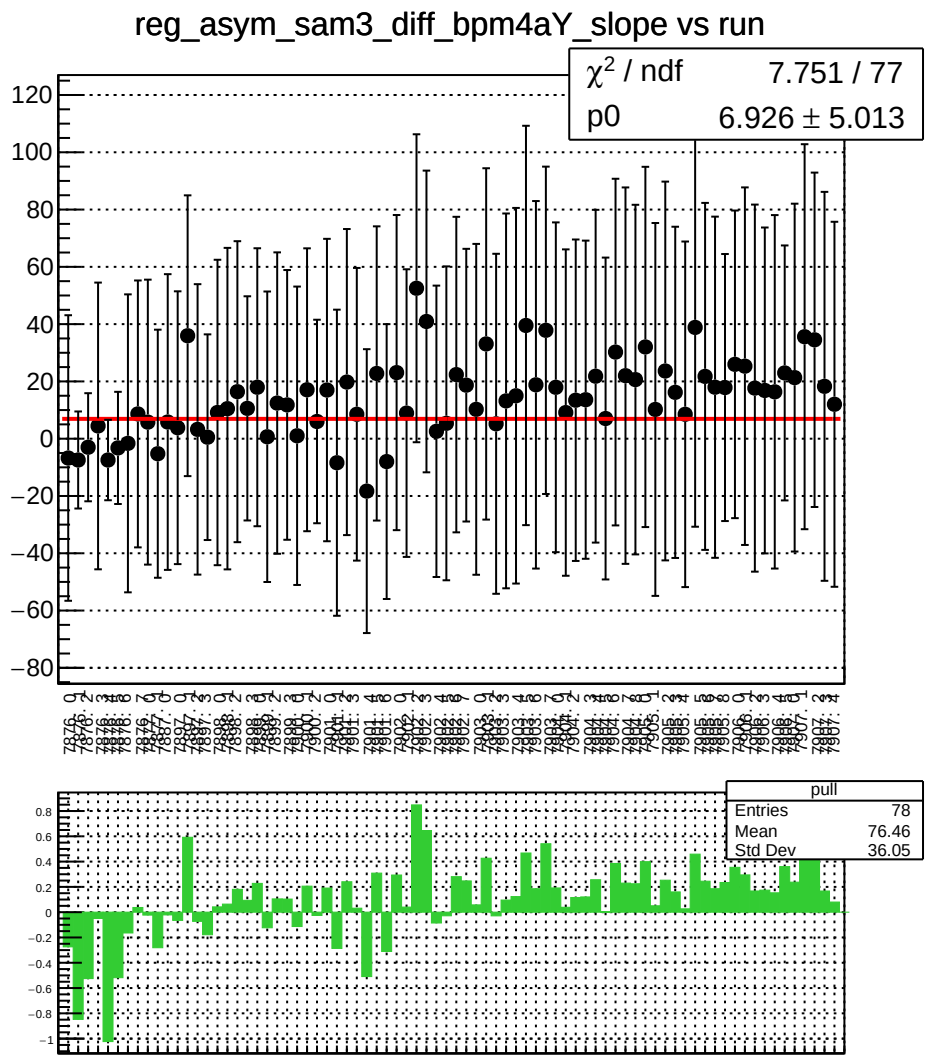

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 49 / 77
p0 −37.15 ± 10.77
pull
Entries 78
Mean 60.94
Std Dev 24.69

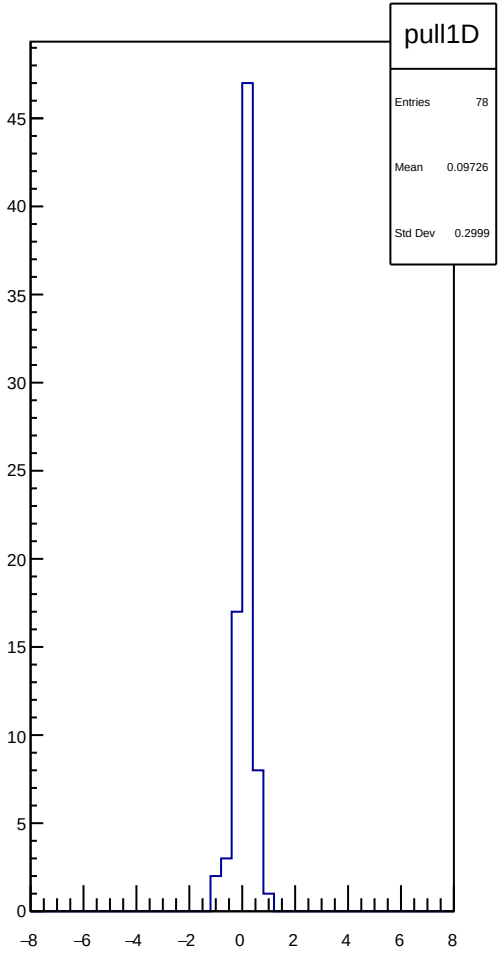

pull1D
Entries 78
Mean 0.2162
Std Dev 0.7626

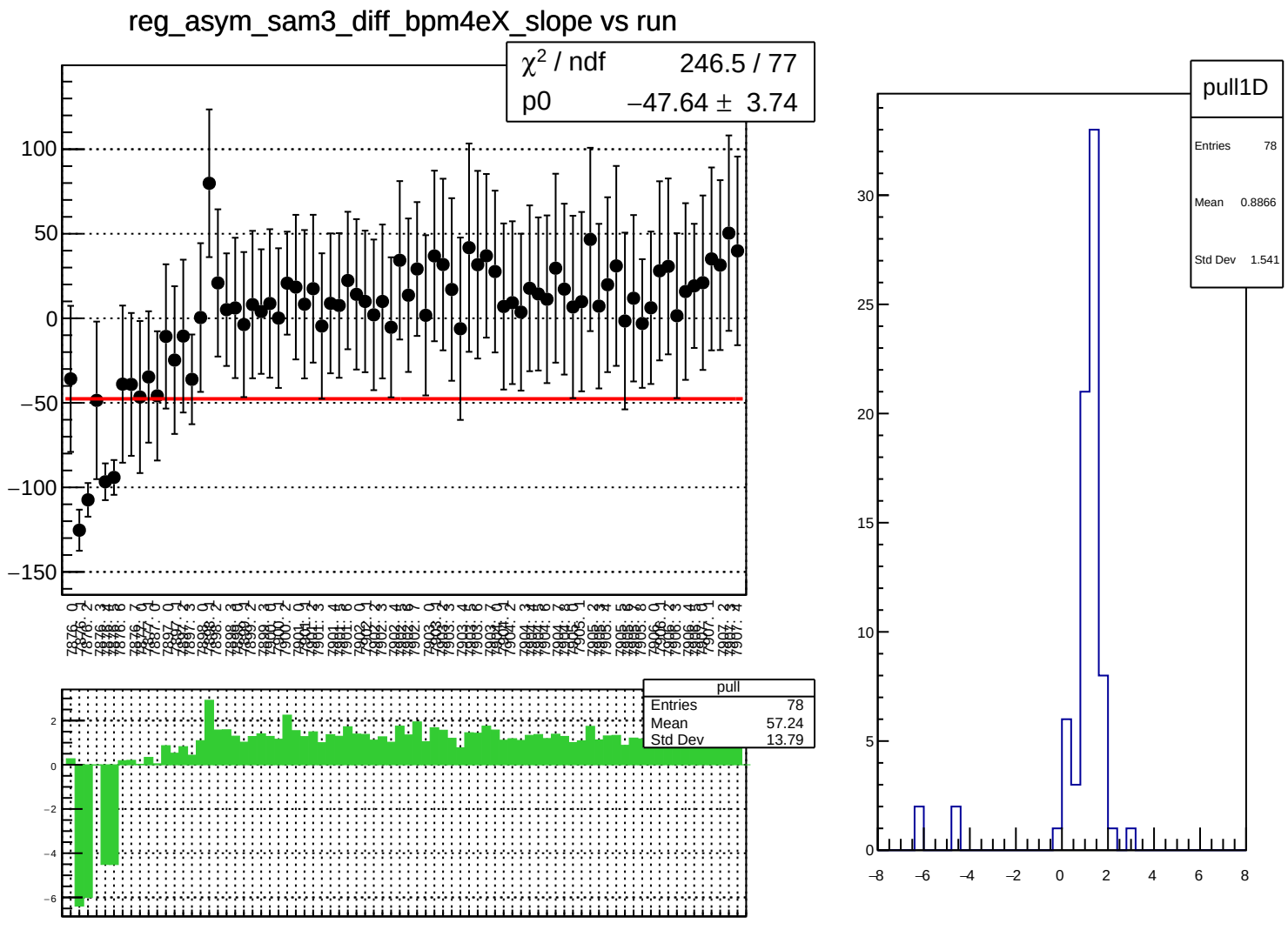

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 3.292 / 77
p0 1.059 ± 0.3663
pull
Entries 78
Mean 230.8
Std Dev 191

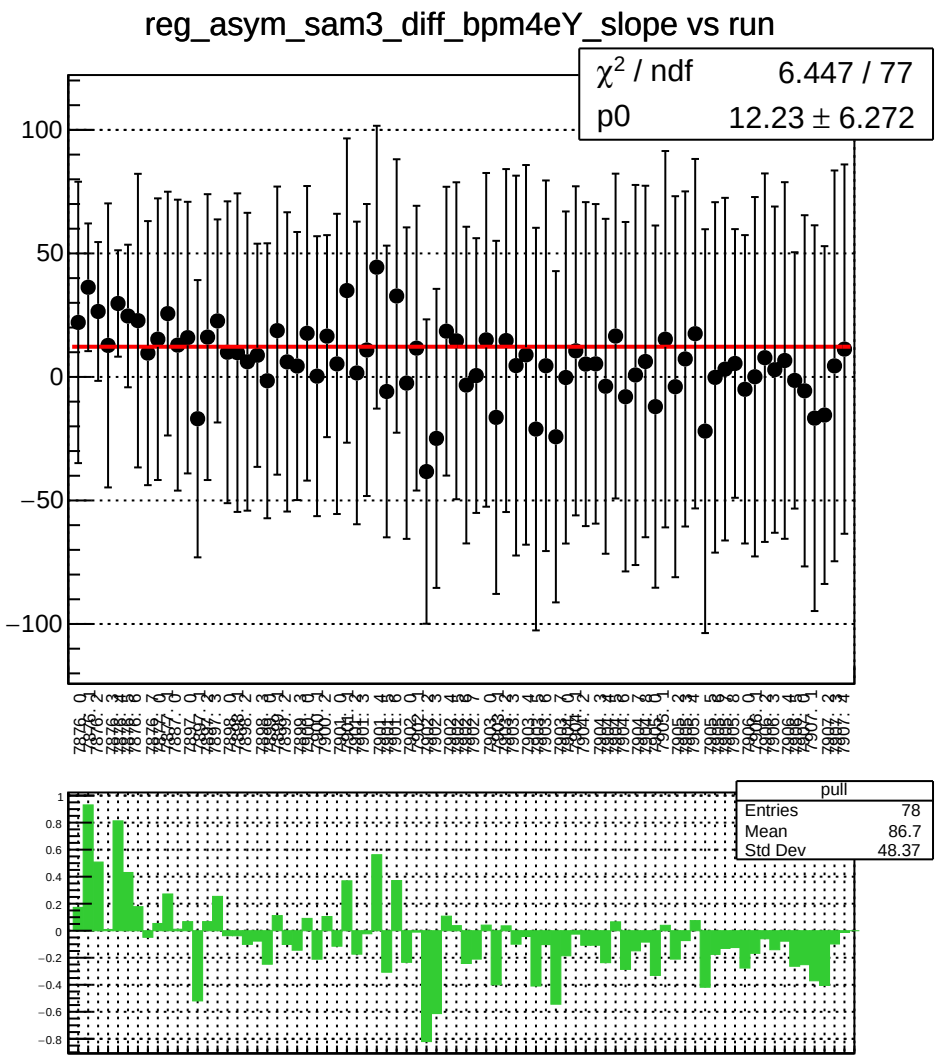

pull1D
Entries 78
Mean 0.007844
Std Dev 0.2053

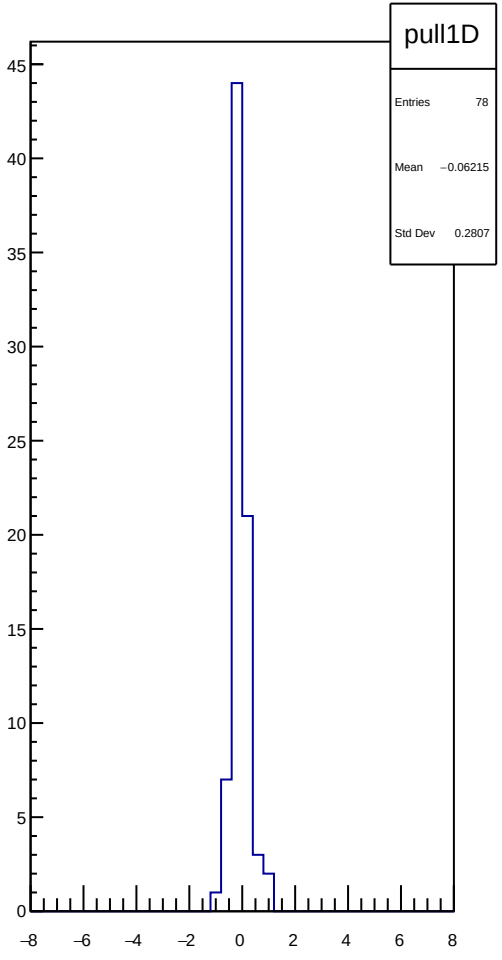

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 220.7 / 77
p0 −101.8 ± 4.64
pull
Entries 78
Mean 59.03
Std Dev 17.43
pull1D
Entries 78
Mean −0.7803
Std Dev 1.49

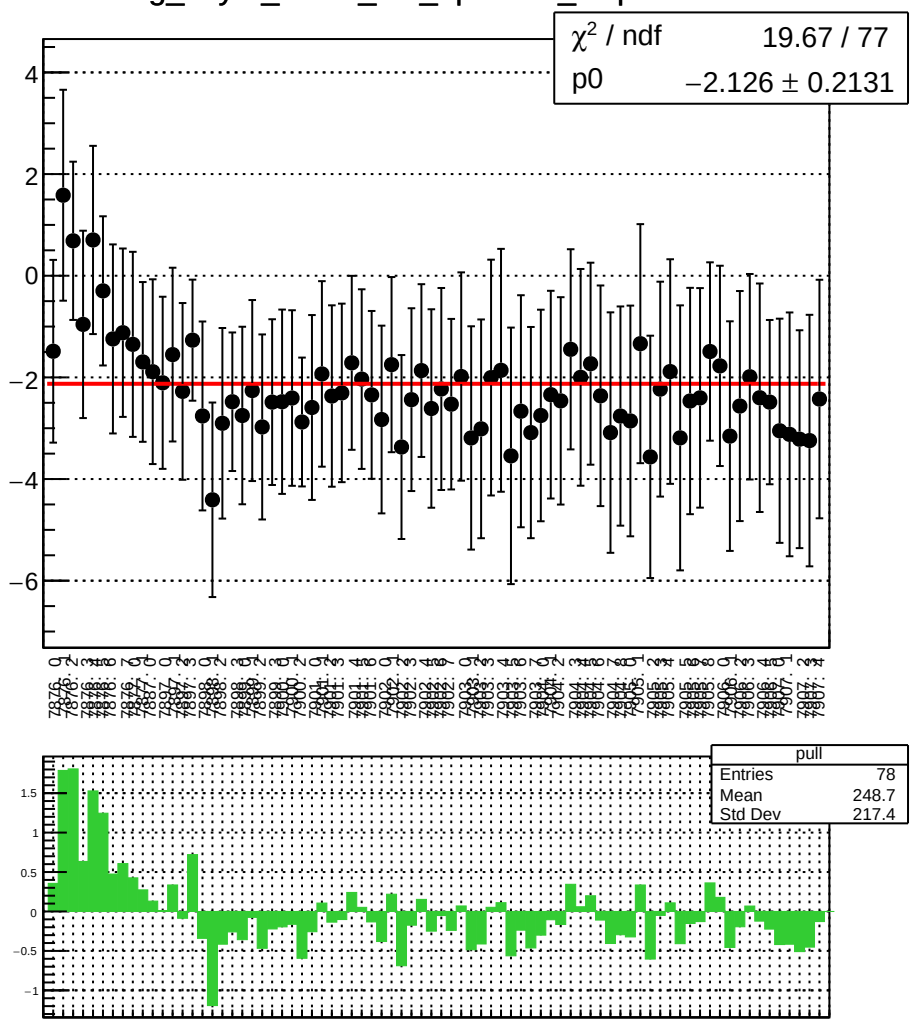

reg_asym_sam3_diff_bpm4aY_slope vs run
χ^2 / ndf 7.751 / 77
p0 6.926 ± 5.013
pull
Entries 78
Mean 76.46
Std Dev 36.05

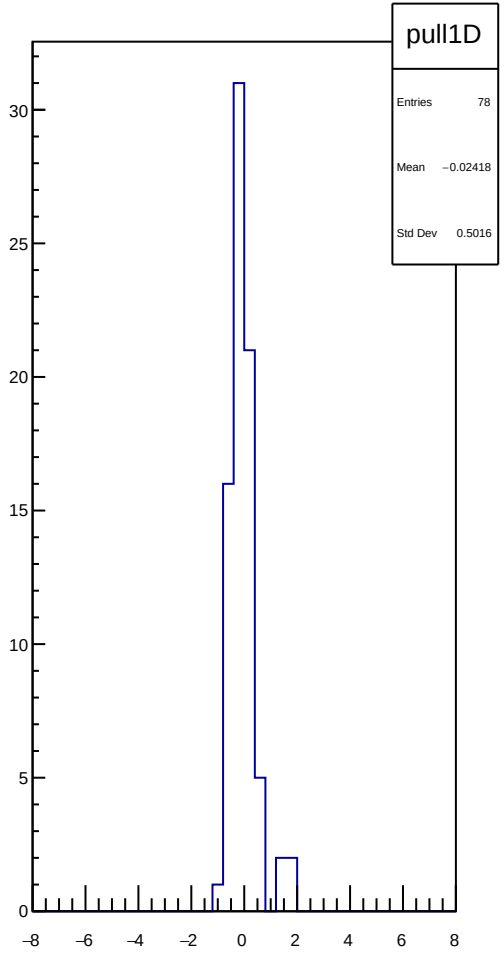

pull1D
Entries 78
Mean 0.09726
Std Dev 0.2999

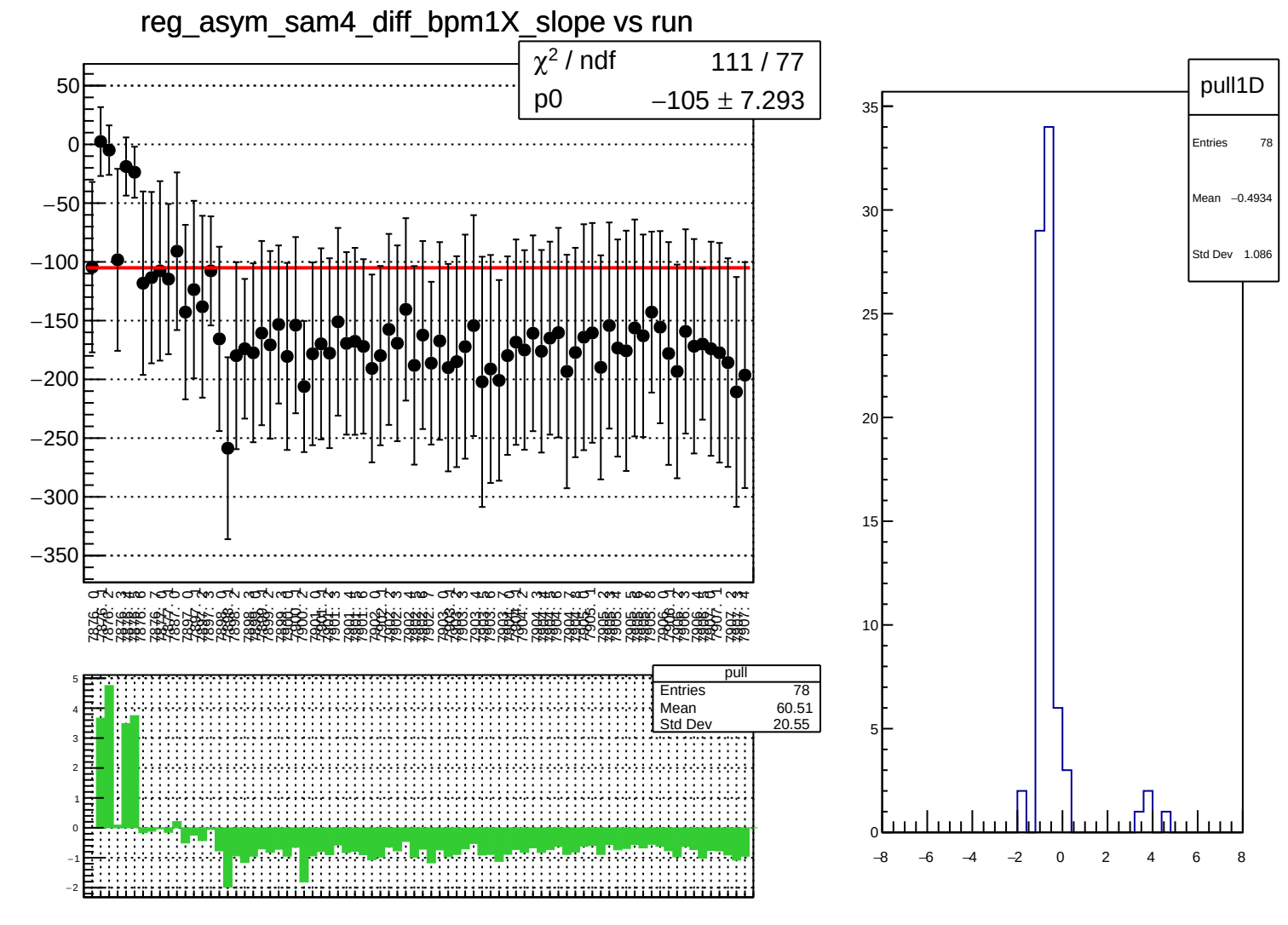

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 246.5 / 77
p0 −47.64 ± 3.74
100
50
0
−50
−100
−150
pull
Entries 78
Mean 57.24
Std Dev 13.79
2
0
−2
−4
−6
pull1D
Entries 78
Mean 0.8866
Std Dev 1.541
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

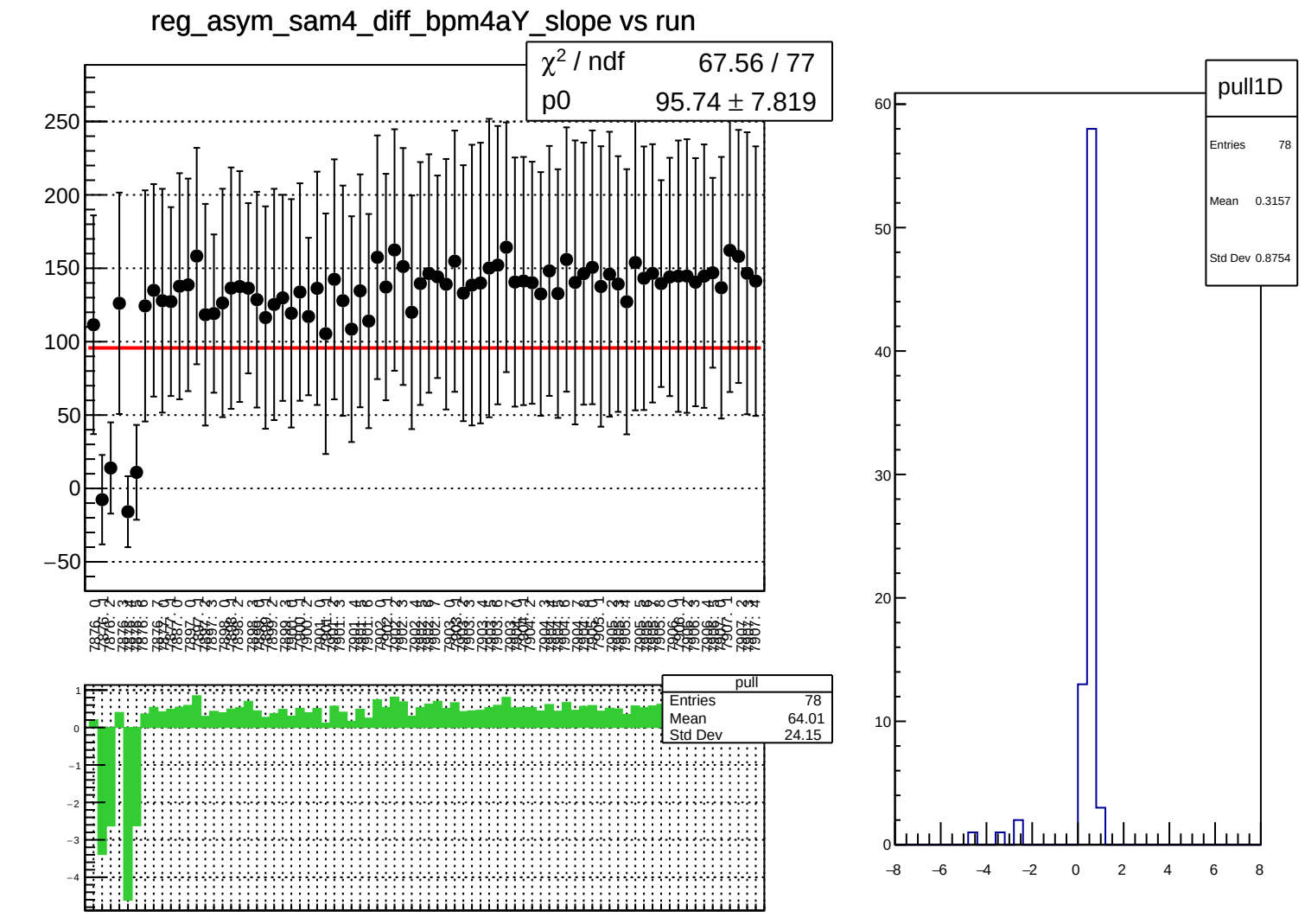

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 6.447 / 77
p0 12.23 ± 6.272
100
50
0
−50
−100
pull
Entries 78
Mean 86.7
Std Dev 48.37
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

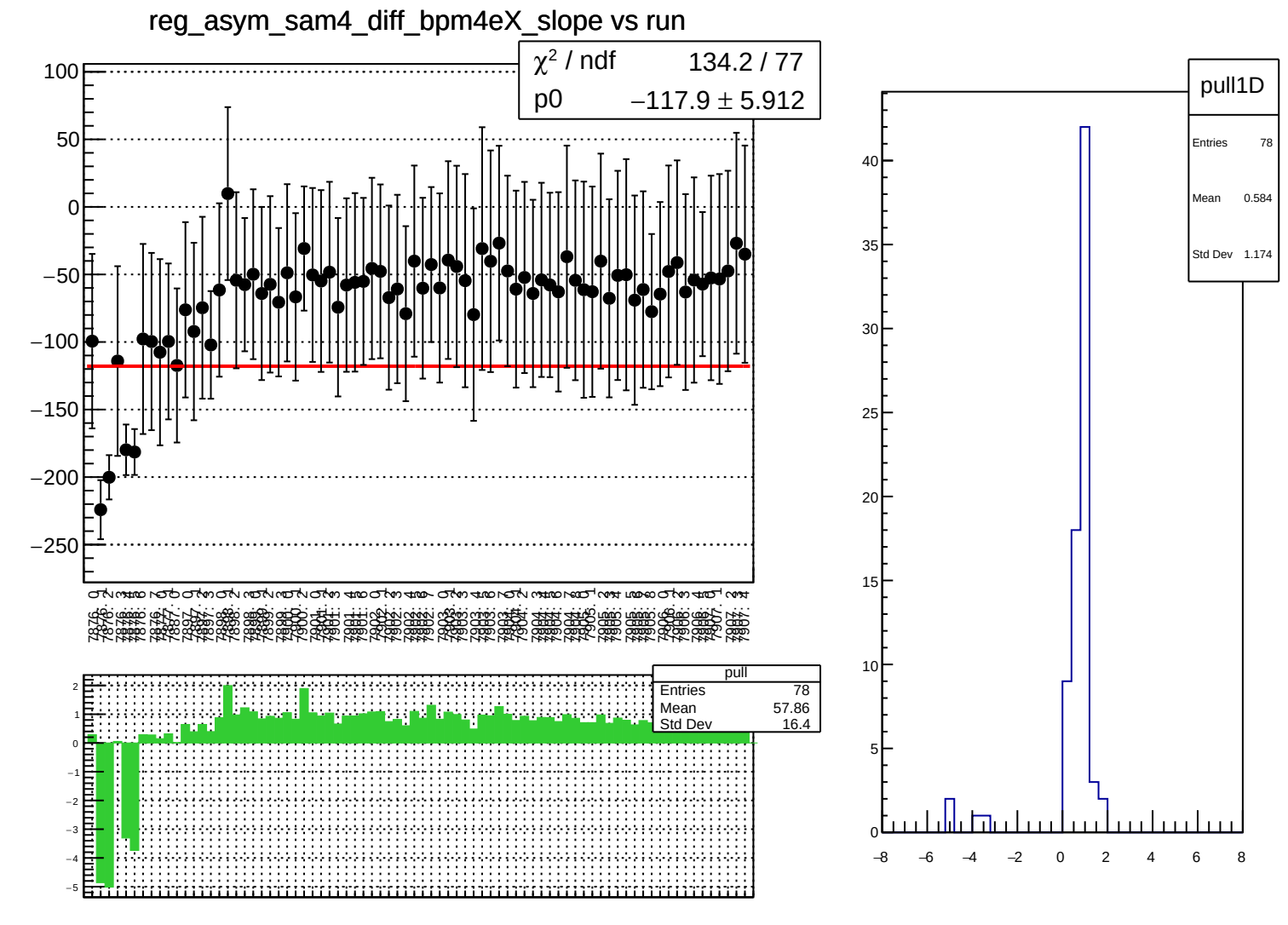

pull1D
Entries 78
Mean −0.06215
Std Dev 0.2807
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

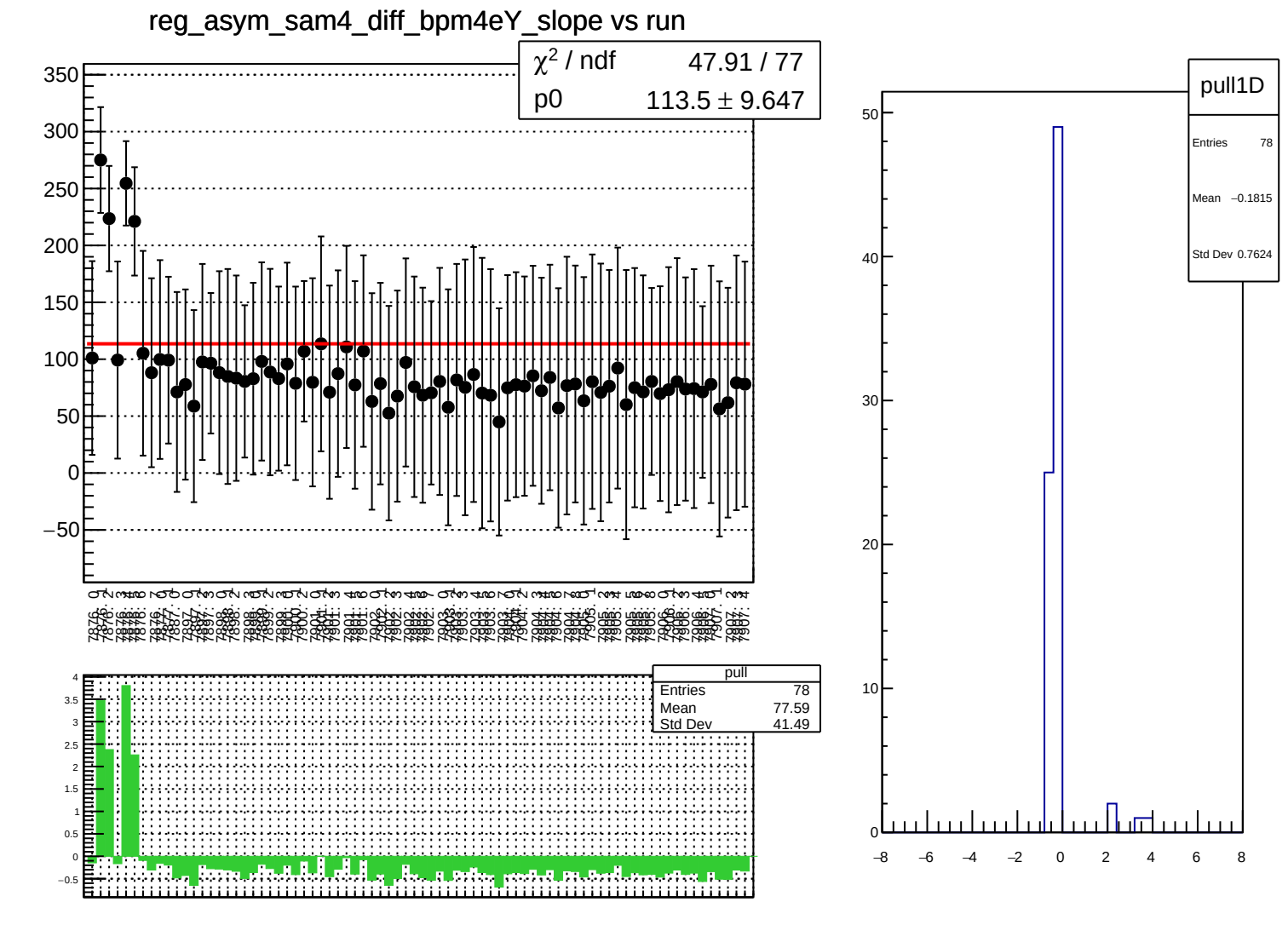

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 19.67 / 77
p0 −2.126 ± 0.2131
pull
Entries 78
Mean 248.7
Std Dev 217.4

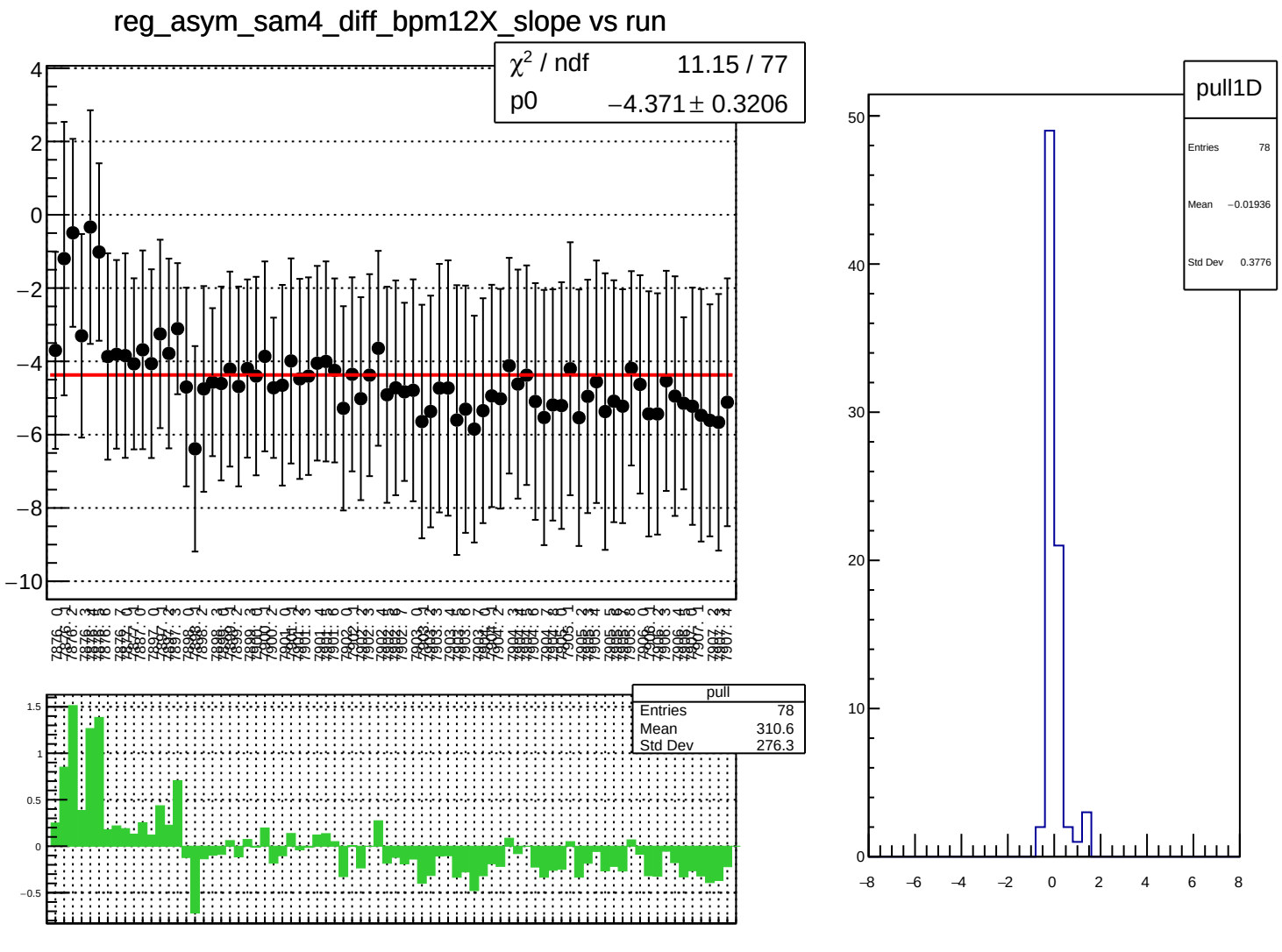

pull1D
Entries 78
Mean −0.02418
Std Dev 0.5016

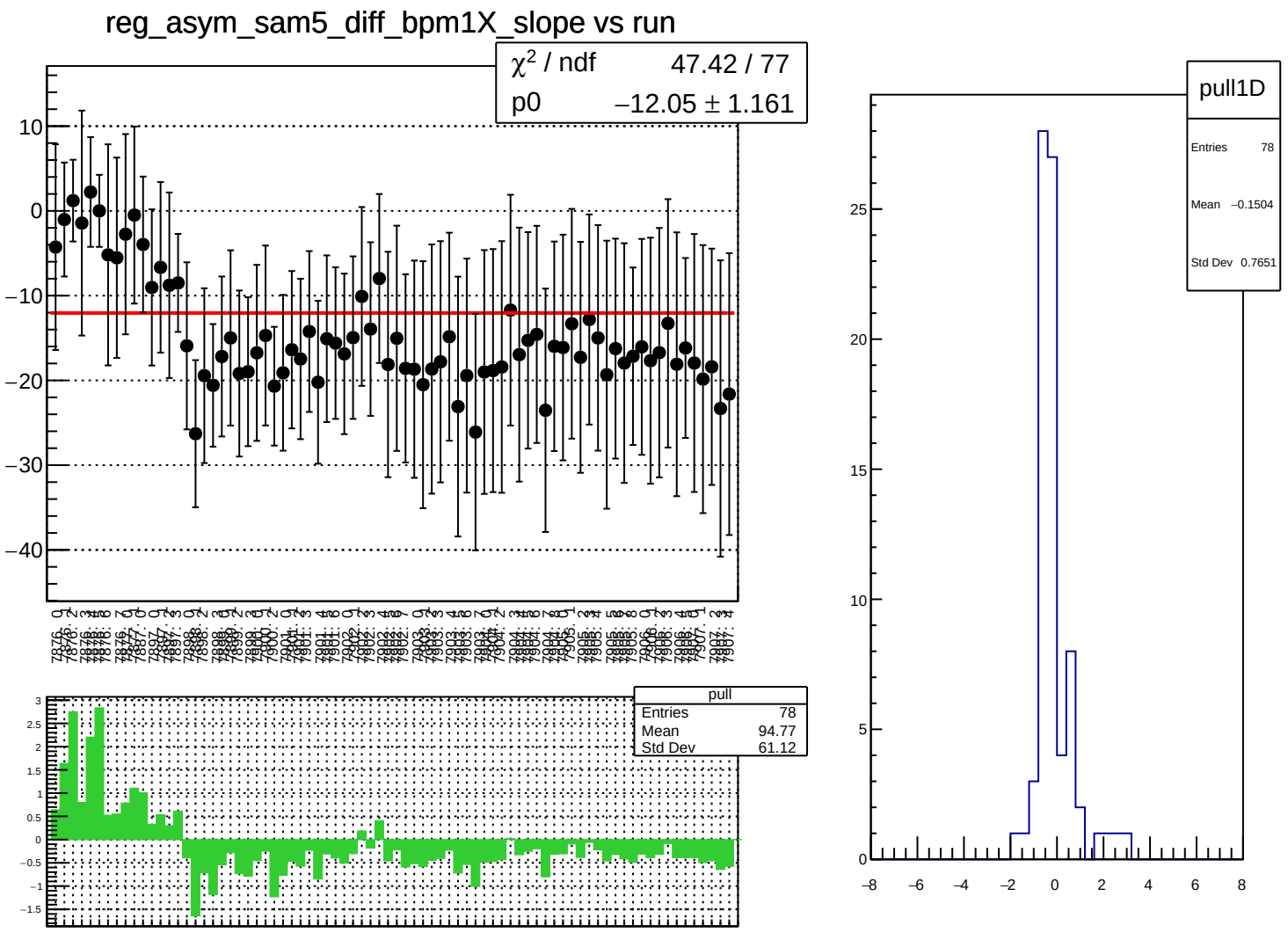

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 111 / 77
p0 −105 ± 7.293
pull
Entries 78
Mean 60.51
Std Dev 20.55
pull1D
Entries 78
Mean −0.4934
Std Dev 1.086

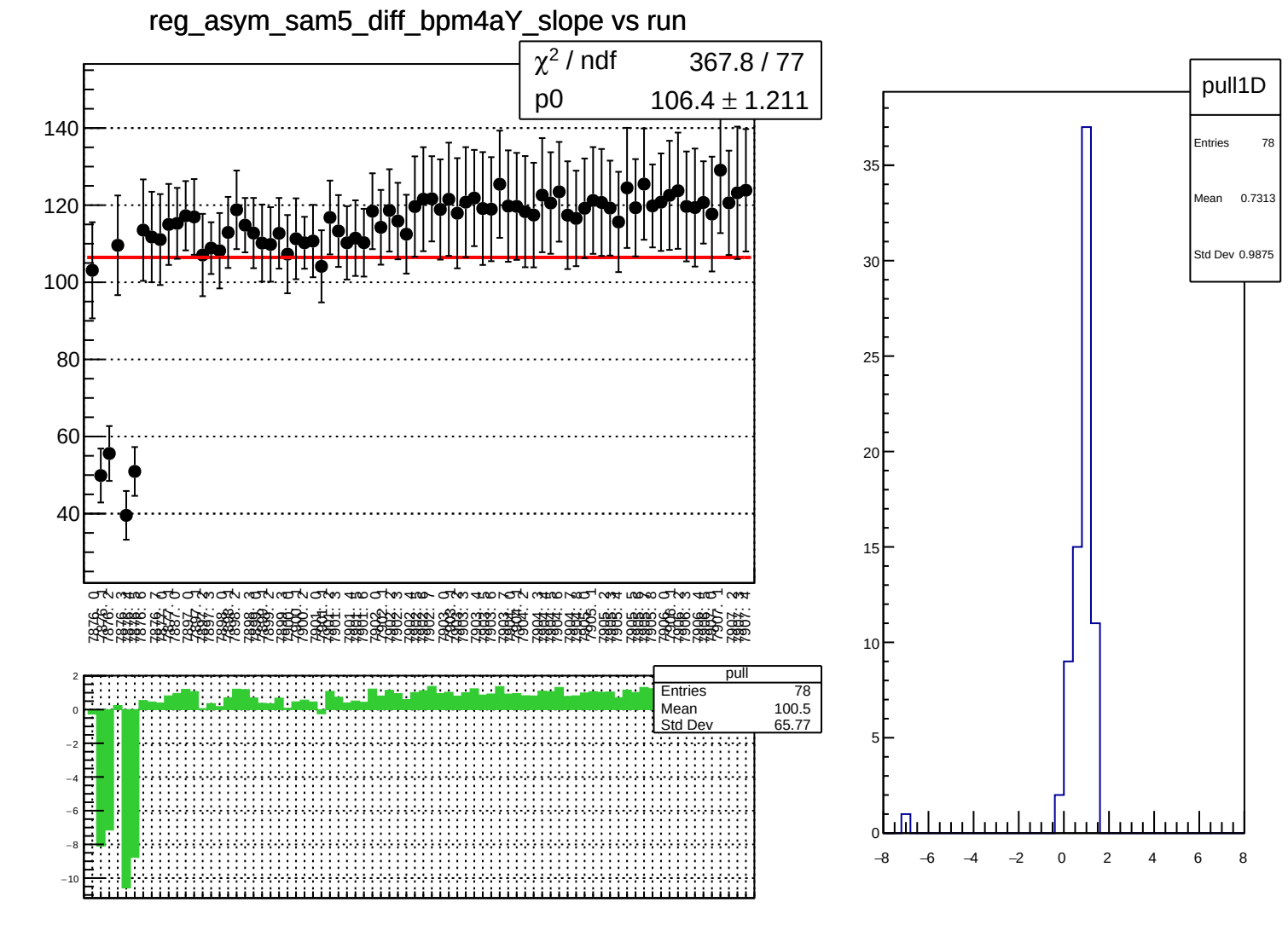

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 67.56 / 77
p0 95.74 ± 7.819
pull
Entries 78
Mean 64.01
Std Dev 24.15
pull1D
Entries 78
Mean 0.3157
Std Dev 0.8754

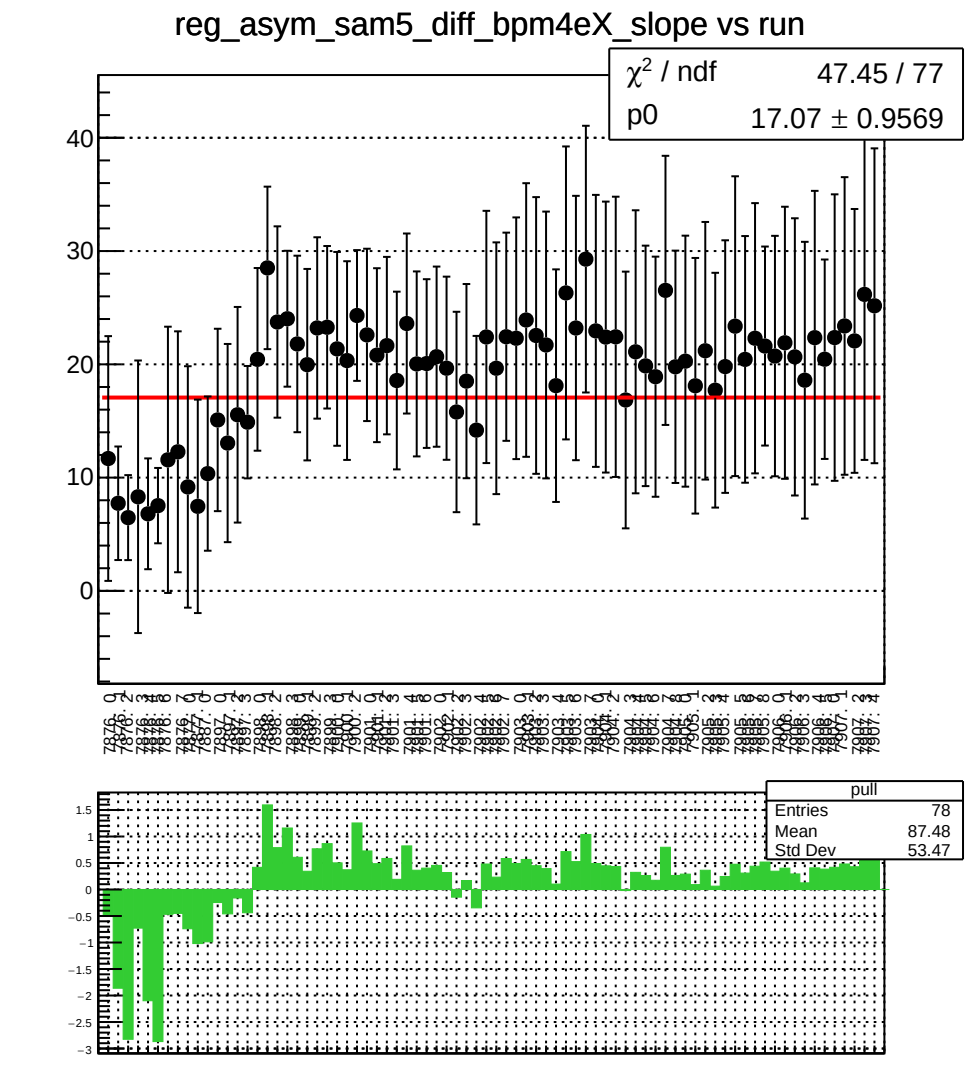

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 134.2 / 77
p0 −117.9 ± 5.912
pull
Entries 78
Mean 57.86
Std Dev 16.4
pull1D
Entries 78
Mean 0.584
Std Dev 1.174

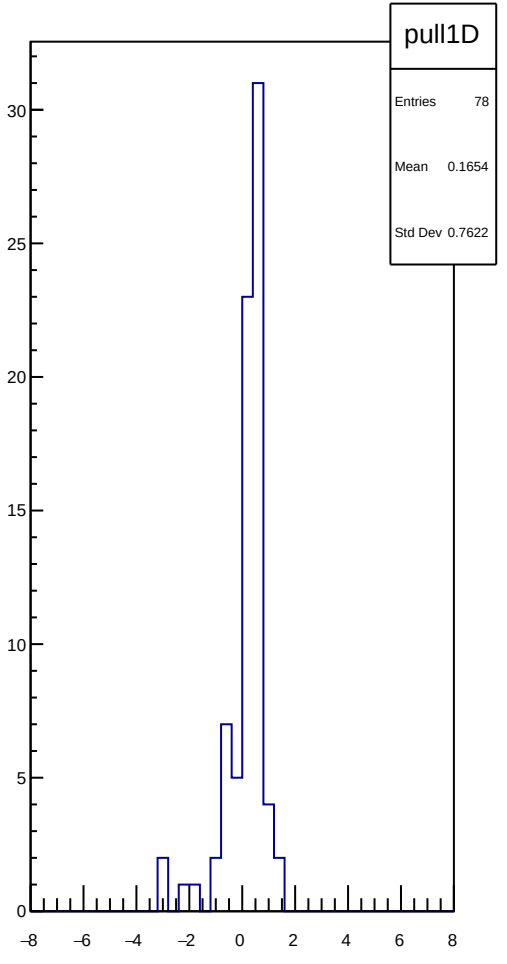

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 47.91 / 77
p0 113.5 ± 9.647
pull
Entries 78
Mean 77.59
Std Dev 41.49
pull1D
Entries 78
Mean −0.1815
Std Dev 0.7624

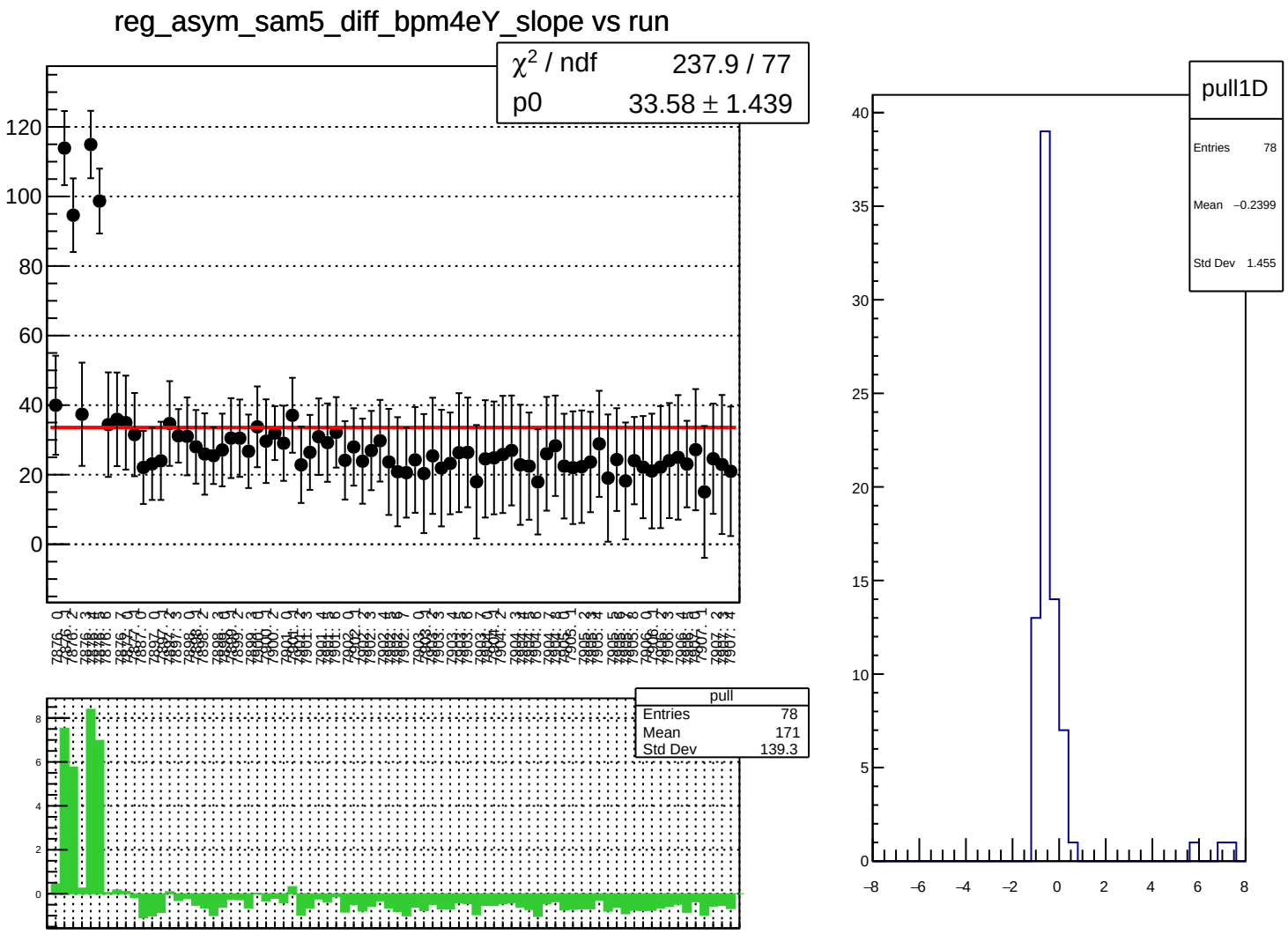

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 11.15 / 77
p0 −4.371 ± 0.3206
pull
Entries 78
Mean 310.6
Std Dev 276.3
pull1D
Entries 78
Mean −0.01936
Std Dev 0.3776

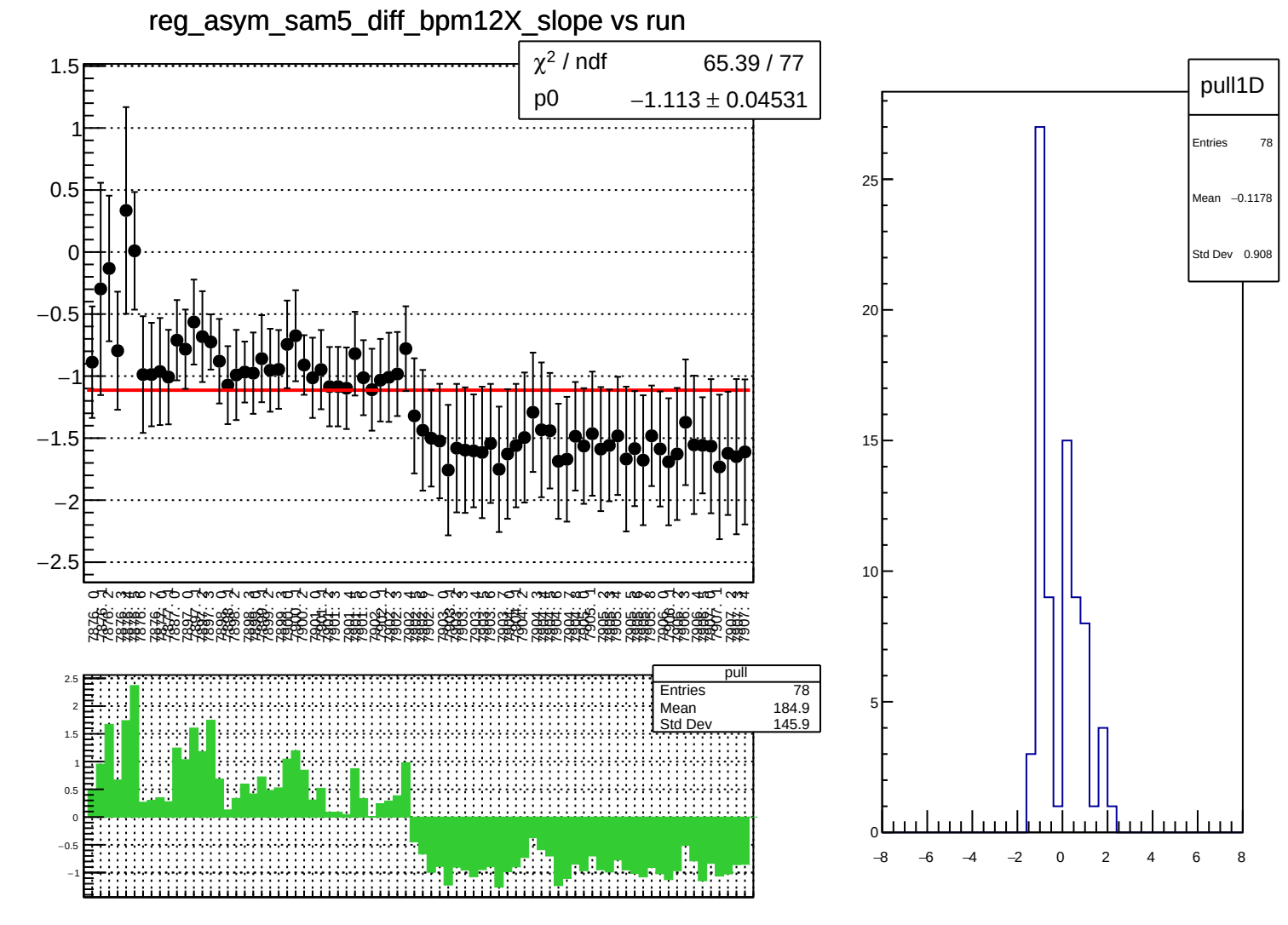

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 47.42 / 77
p0 −12.05 ± 1.161
pull
Entries 78
Mean 94.77
Std Dev 61.12
pull1D
Entries 78
Mean −0.1504
Std Dev 0.7651

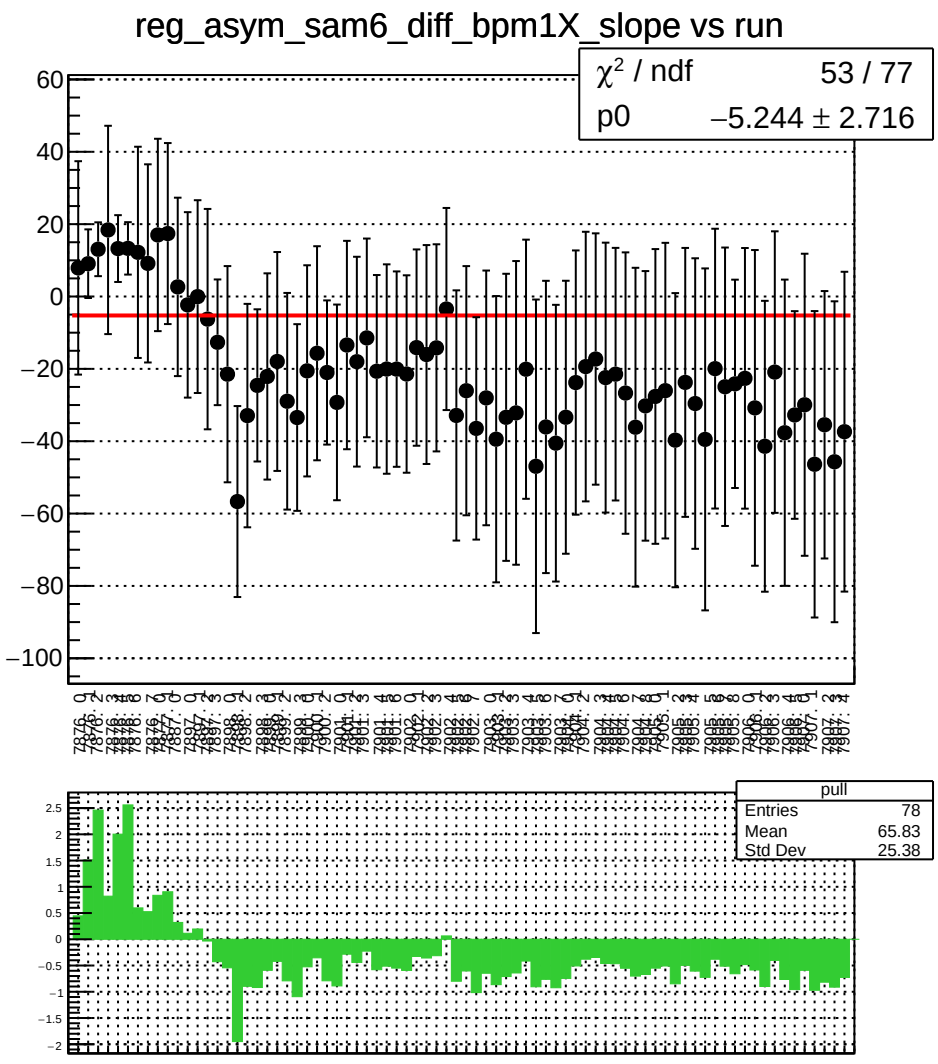

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 367.8 / 77
p0 106.4 ± 1.211
pull
Entries 78
Mean 100.5
Std Dev 65.77
pull1D
Entries 78
Mean 0.7313
Std Dev 0.9875

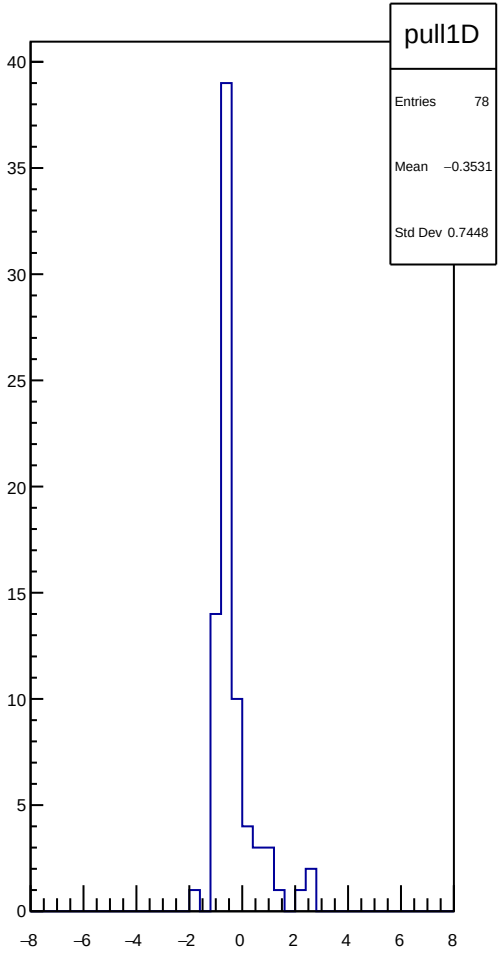

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 47.45 / 77
p0 17.07 ± 0.9569
pull
Entries 78
Mean 87.48
Std Dev 53.47

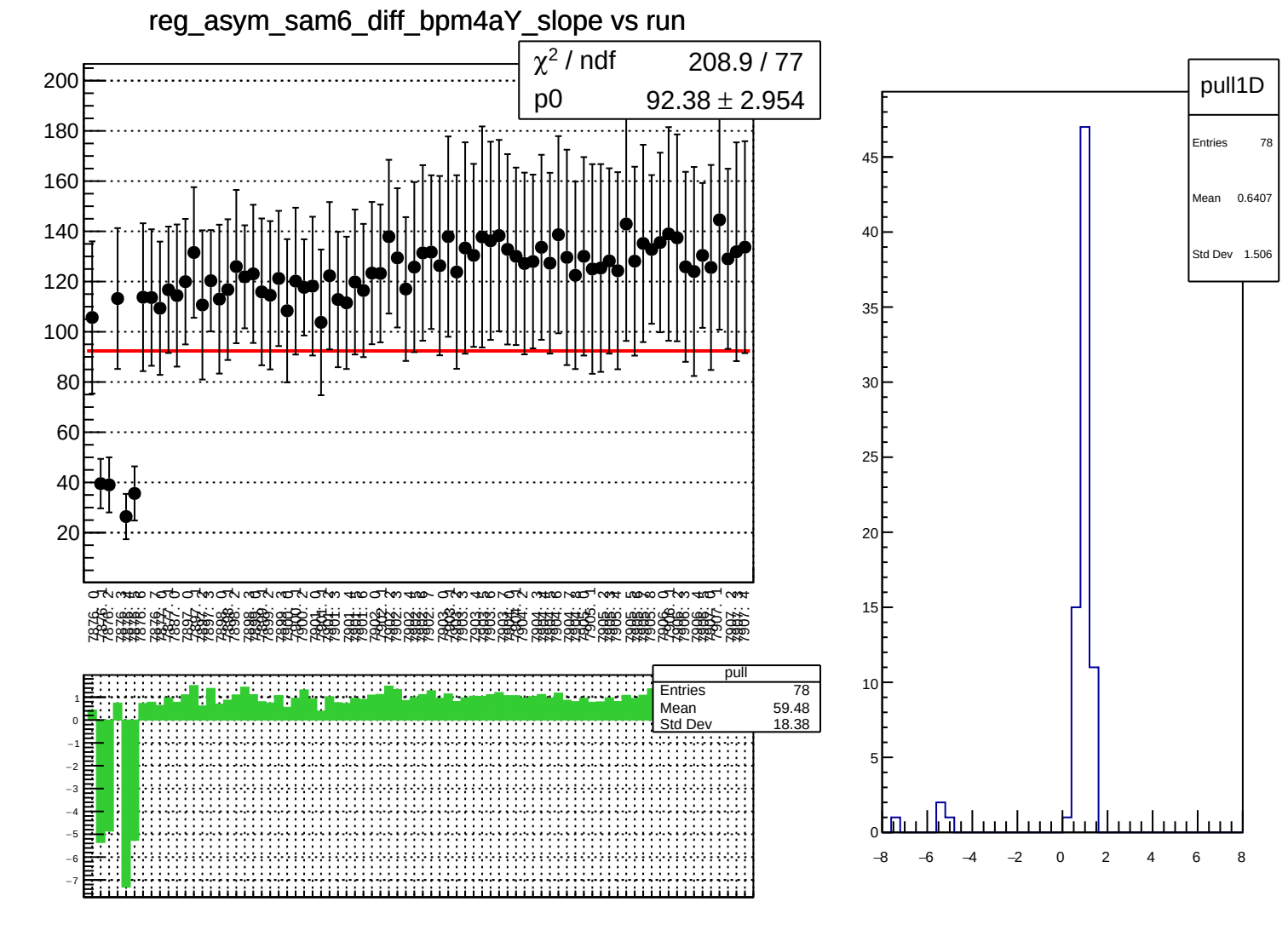

pull1D
Entries 78
Mean 0.1654
Std Dev 0.7622

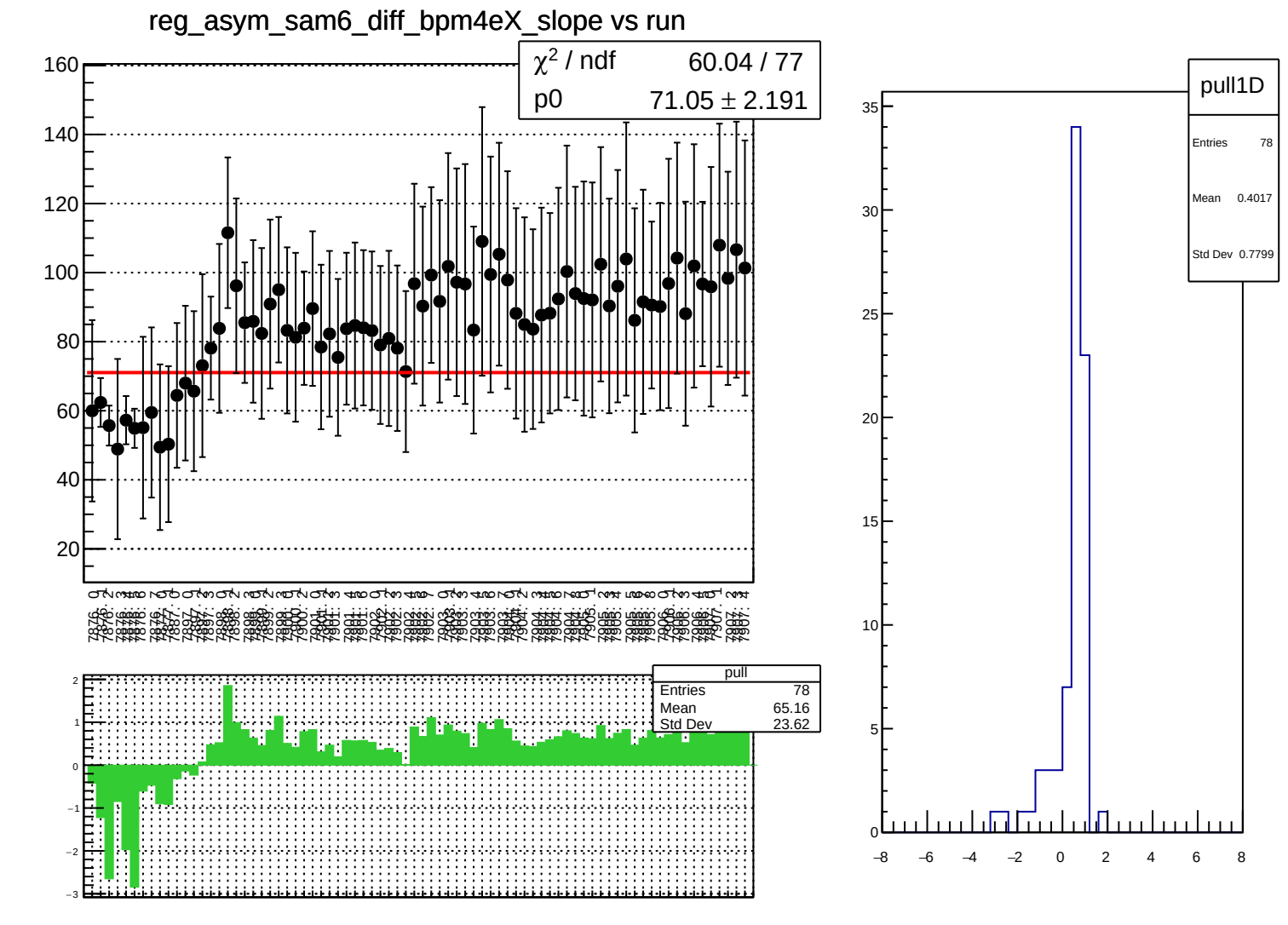

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 237.9 / 77
p0 33.58 ± 1.439
120
100
80
60
40
20
0
pull
Entries 78
Mean 171
Std Dev 139.3
8
6
4
2
0
pull1D
Entries 78
Mean −0.2399
Std Dev 1.455
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

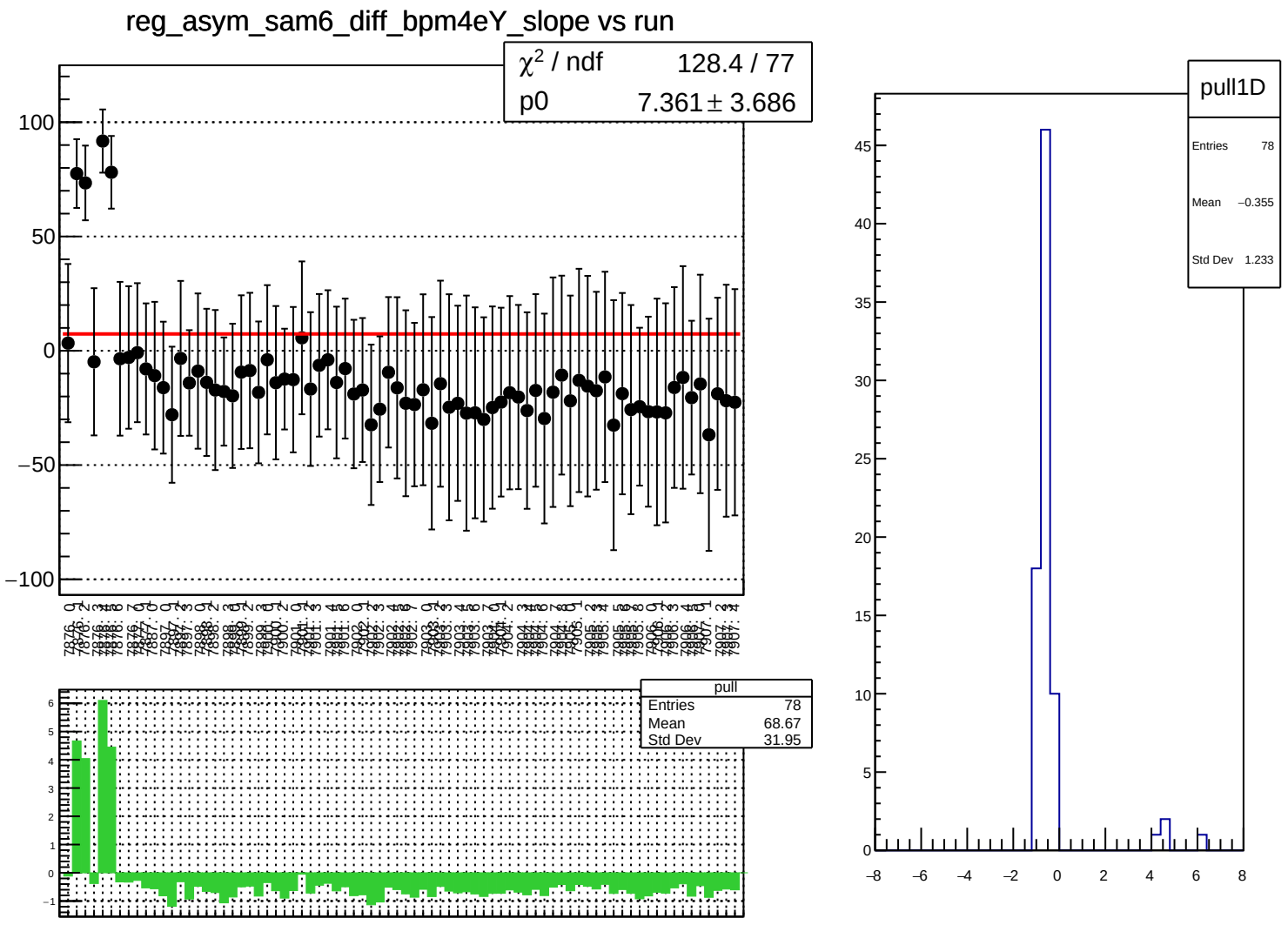

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 65.39 / 77
p0 −1.113 ± 0.04531
pull
Entries 78
Mean 184.9
Std Dev 145.9
pull1D
Entries 78
Mean −0.1178
Std Dev 0.908

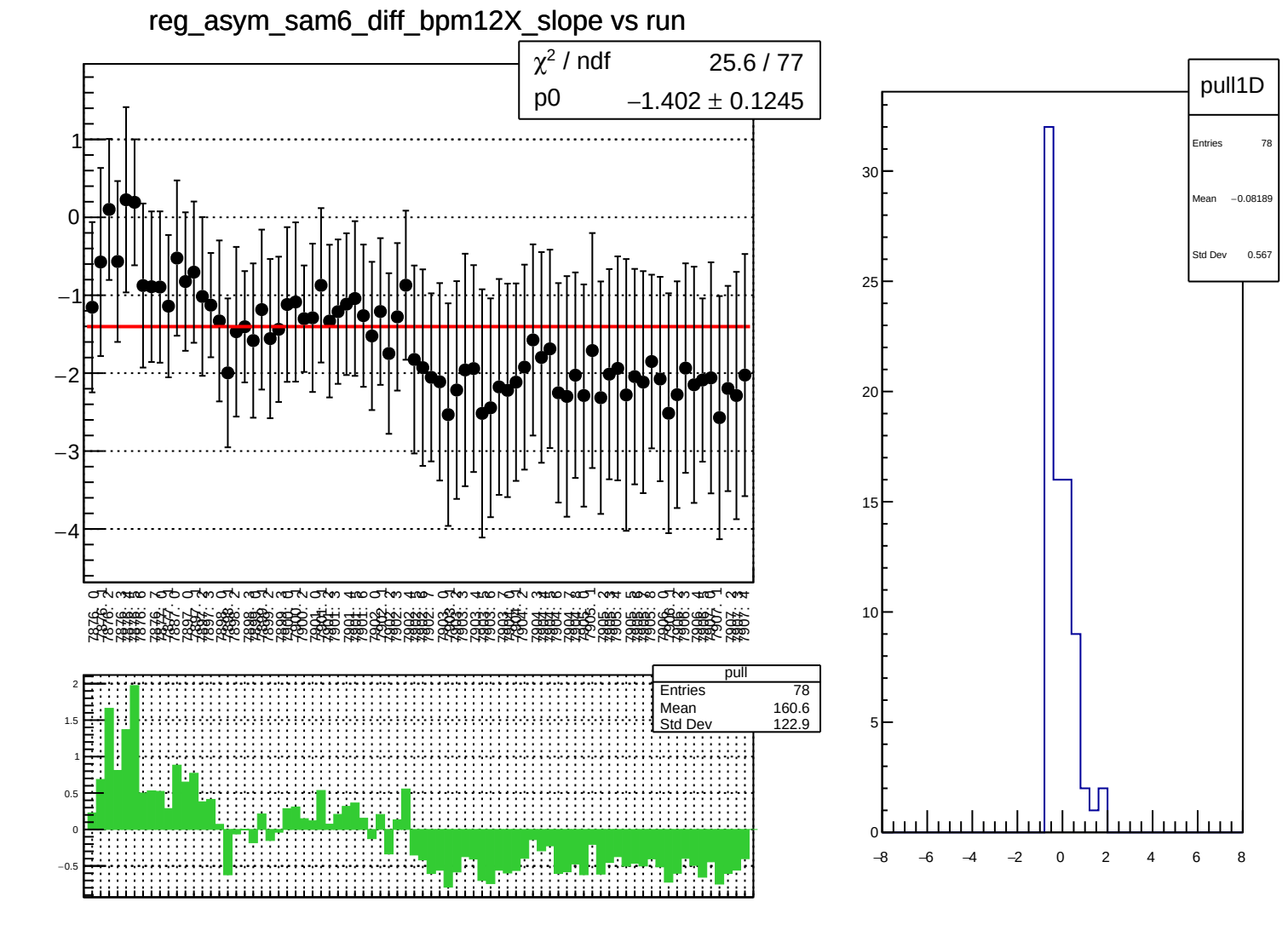

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 53 / 77
p0 −5.244 ± 2.716
pull
Entries 78
Mean 65.83
Std Dev 25.38

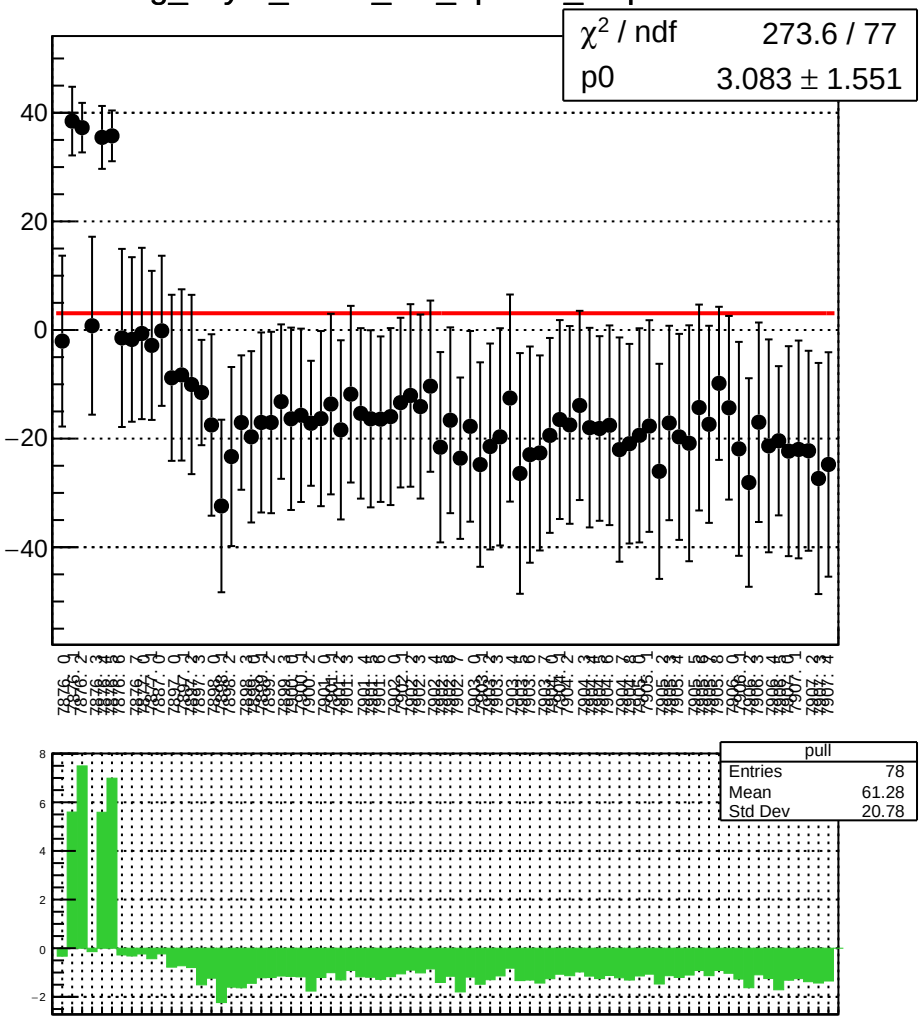

pull1D
Entries 78
Mean −0.3531
Std Dev 0.7448

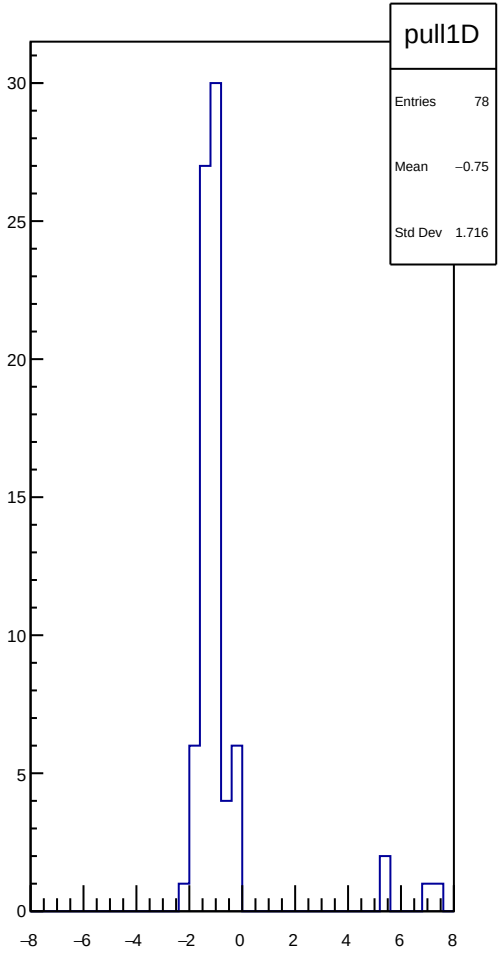

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 208.9 / 77
p0 92.38 ± 2.954
pull
Entries 78
Mean 59.48
Std Dev 18.38
pull1D
Entries 78
Mean 0.6407
Std Dev 1.506

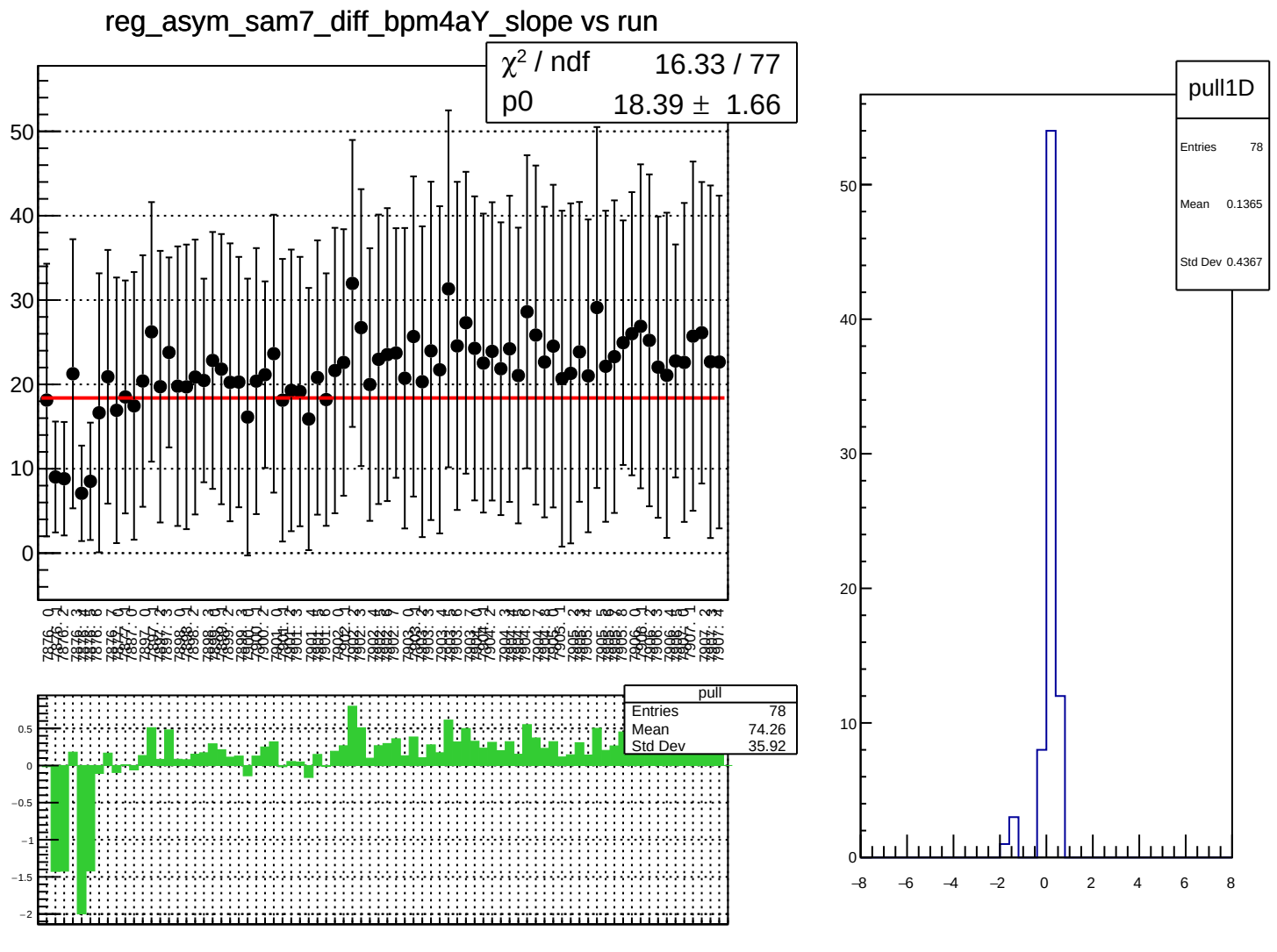

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 60.04 / 77
p0 71.05 ± 2.191
pull
Entries 78
Mean 65.16
Std Dev 23.62
pull1D
Entries 78
Mean 0.4017
Std Dev 0.7799

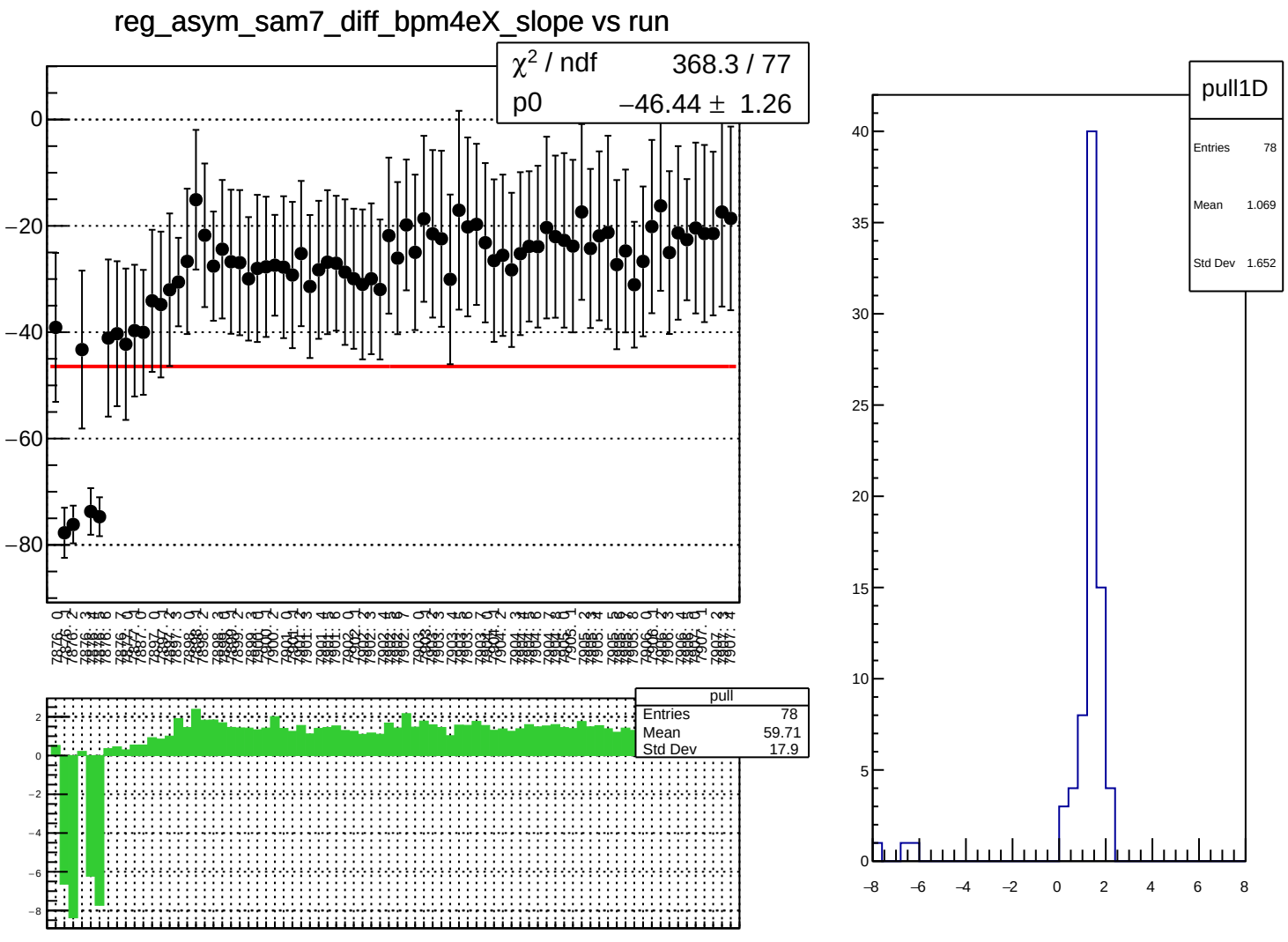

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 128.4 / 77
p0 7.361 ± 3.686
100
50
0
−50
−100
pull
Entries 78
Mean 68.67
Std Dev 31.95
6
5
4
3
2
1
0
−1
pull1D
Entries 78
Mean −0.355
Std Dev 1.233
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

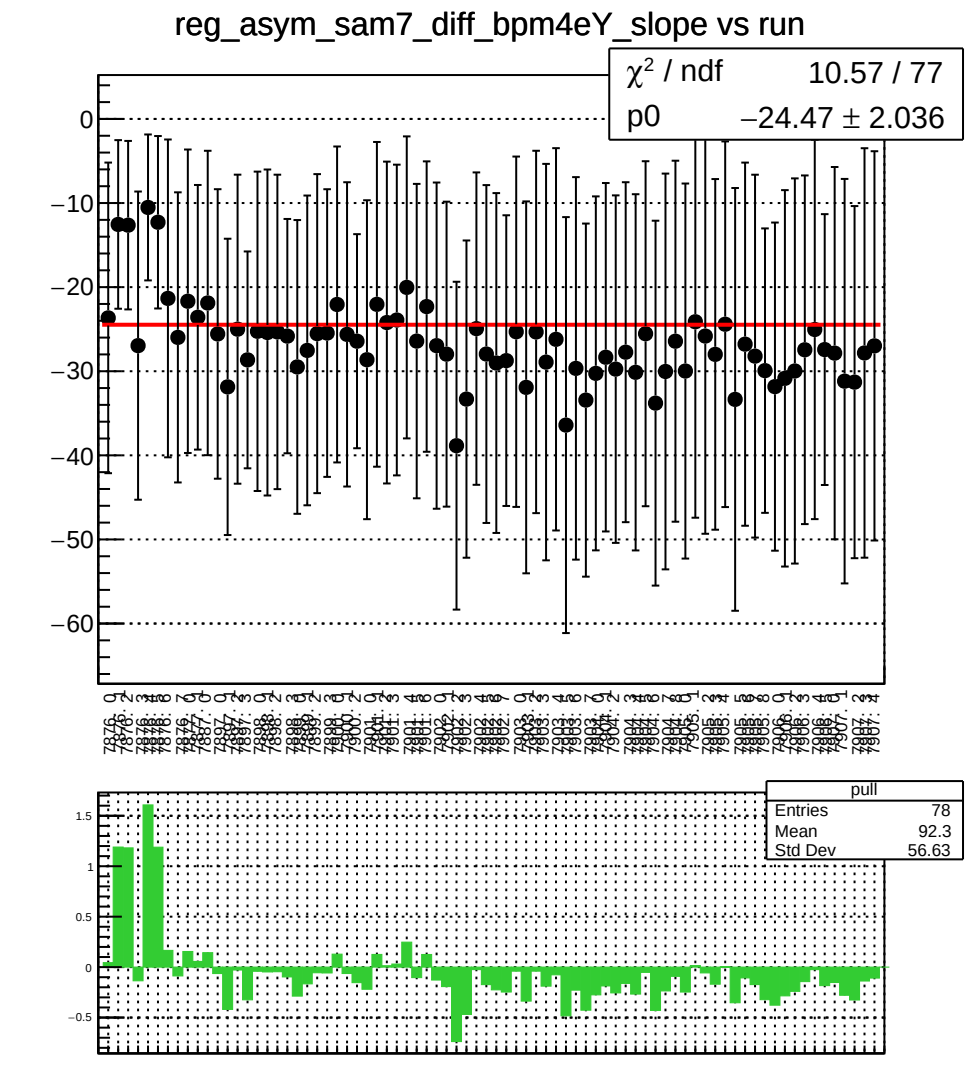

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 25.6 / 77
p0 −1.402 ± 0.1245
pull
Entries 78
Mean 160.6
Std Dev 122.9
pull1D
Entries 78
Mean −0.08189
Std Dev 0.567

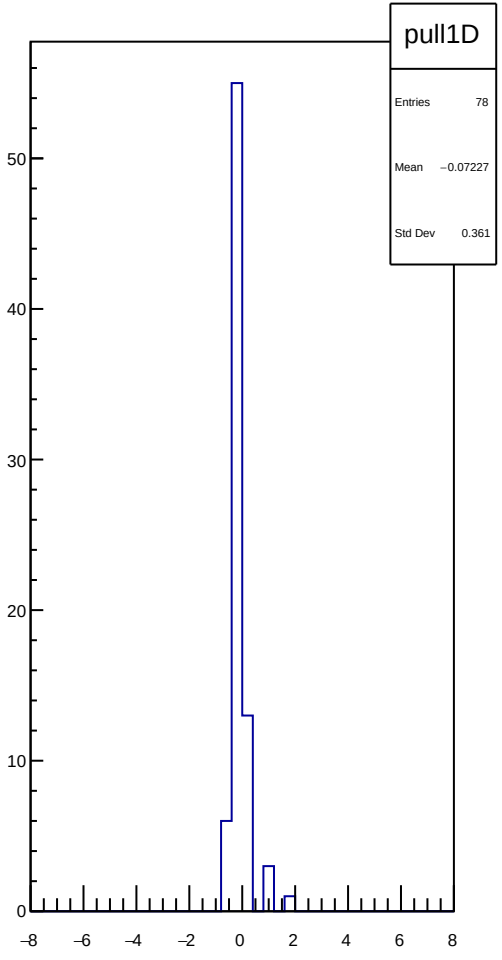

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 273.6 / 77
p0 3.083 ± 1.551
pull
Entries 78
Mean 61.28
Std Dev 20.78

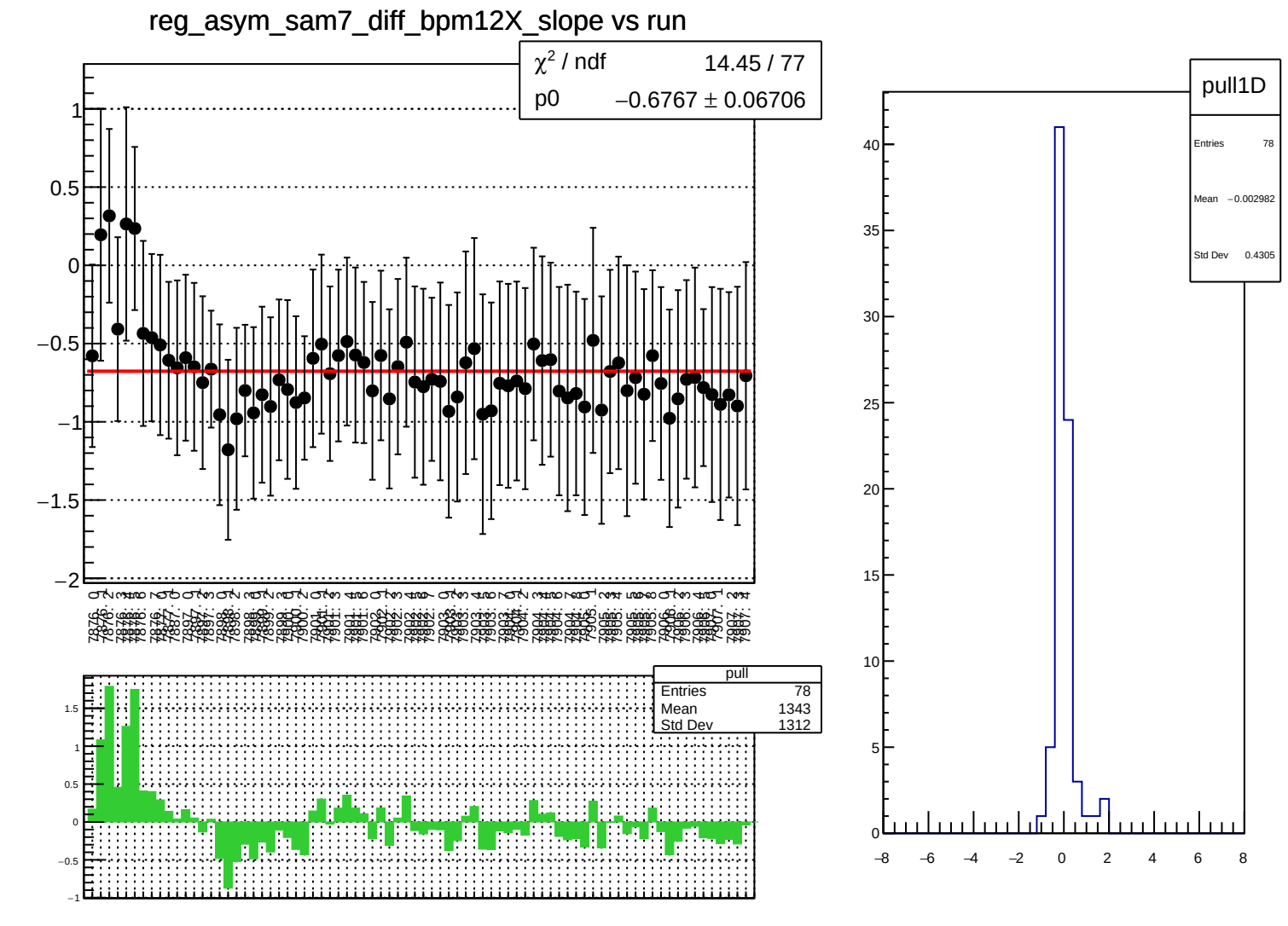

pull1D
Entries 78
Mean −0.75
Std Dev 1.716

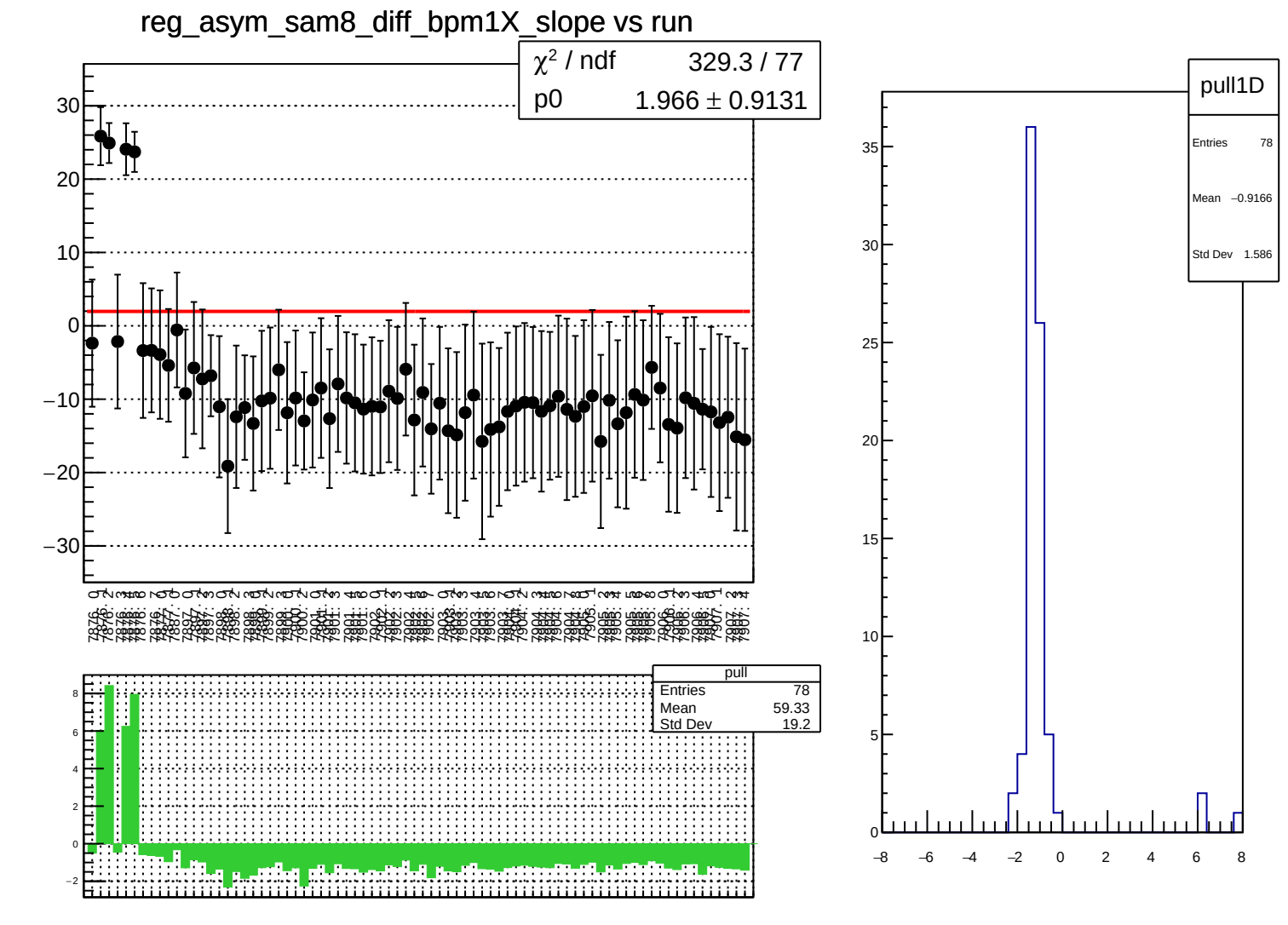

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 16.33 / 77
p0 18.39 ± 1.66
pull
Entries 78
Mean 74.26
Std Dev 35.92
pull1D
Entries 78
Mean 0.1365
Std Dev 0.4367

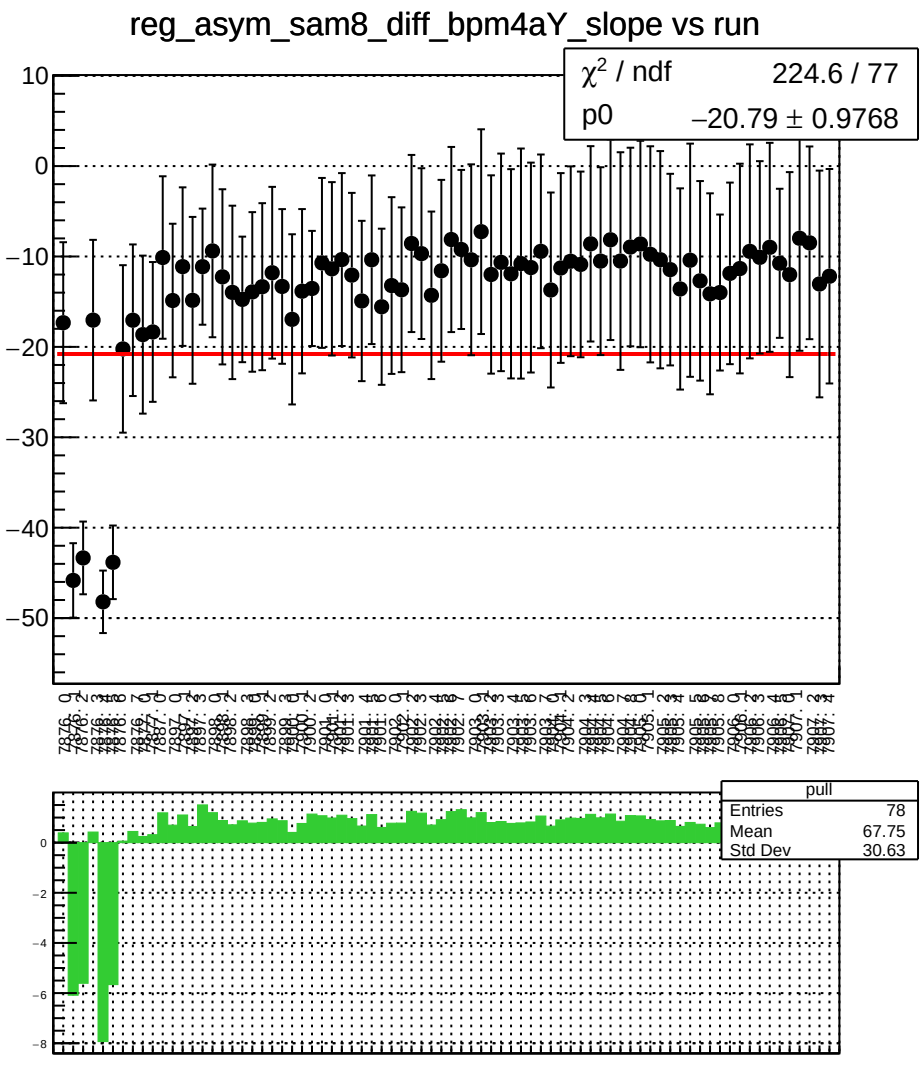

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 368.3 / 77
p0 −46.44 ± 1.26
pull
Entries 78
Mean 59.71
Std Dev 17.9
pull1D
Entries 78
Mean 1.069
Std Dev 1.652

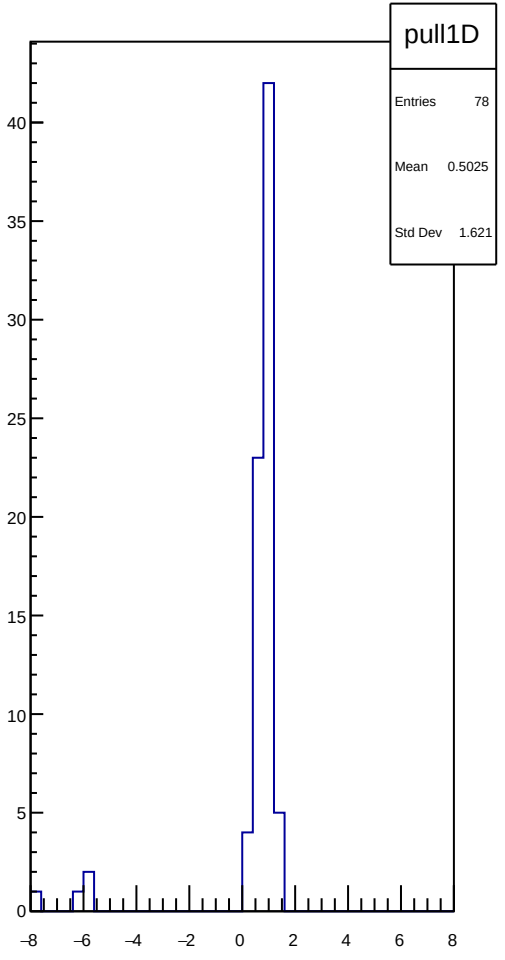

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 10.57 / 77
p0 −24.47 ± 2.036
pull
Entries 78
Mean 92.3
Std Dev 56.63

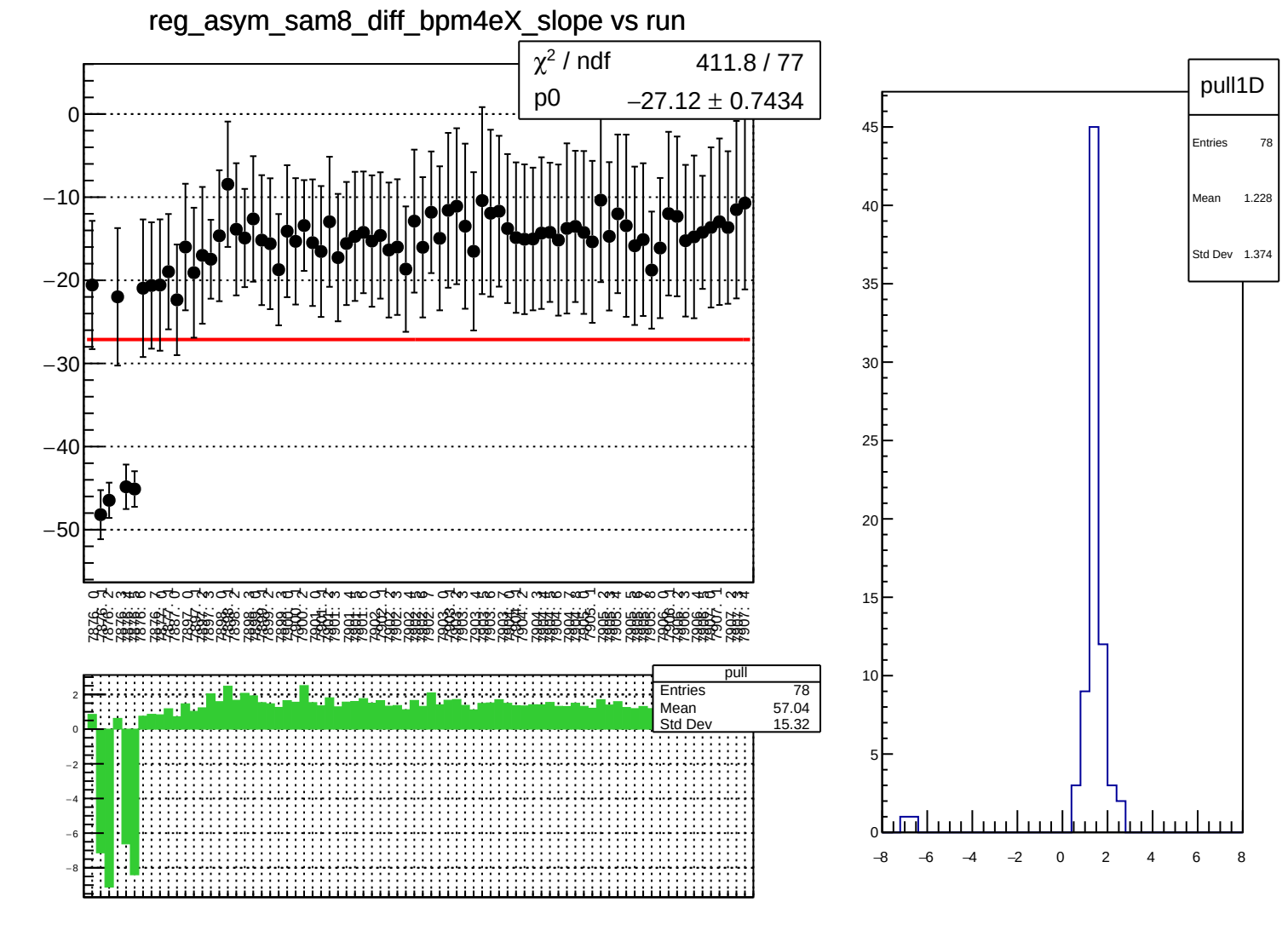

pull1D
Entries 78
Mean −0.07227
Std Dev 0.361

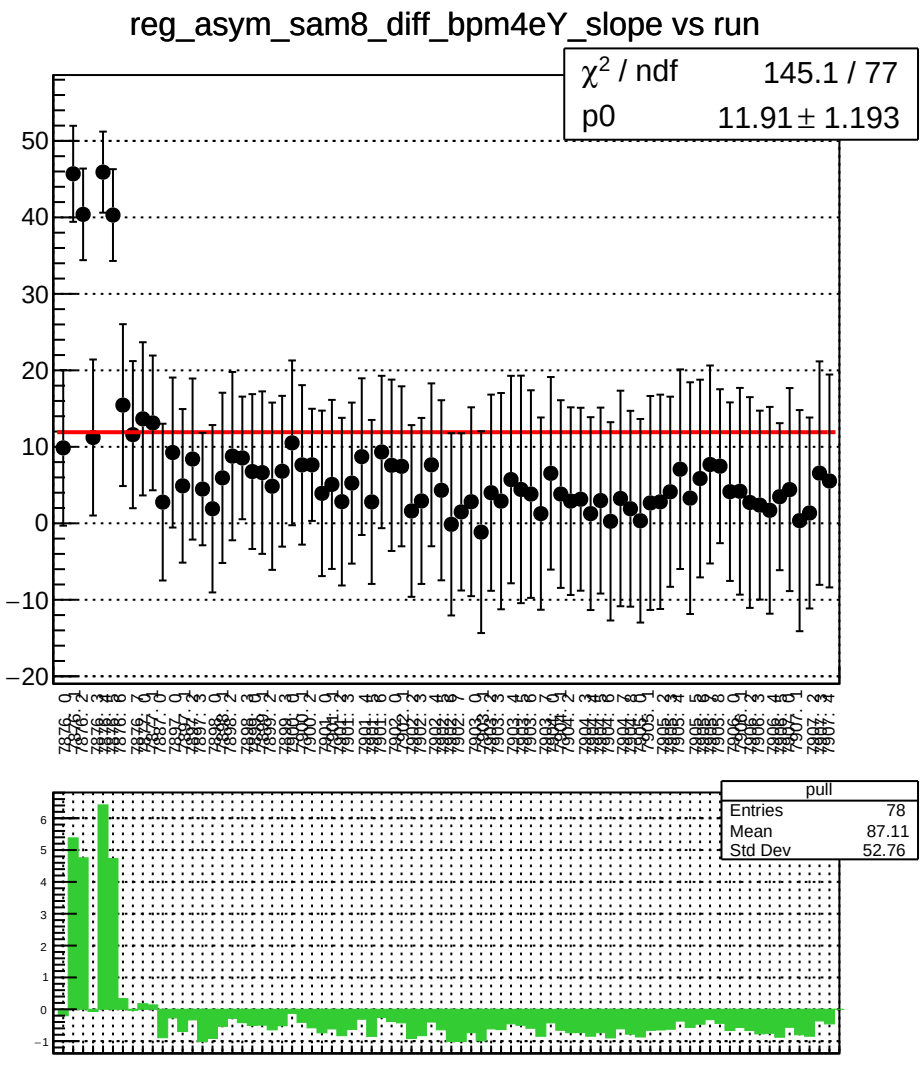

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 14.45 / 77
p0 −0.6767 ± 0.06706
pull
Entries 78
Mean 1343
Std Dev 1312
pull1D
Entries 78
Mean −0.002982
Std Dev 0.4305

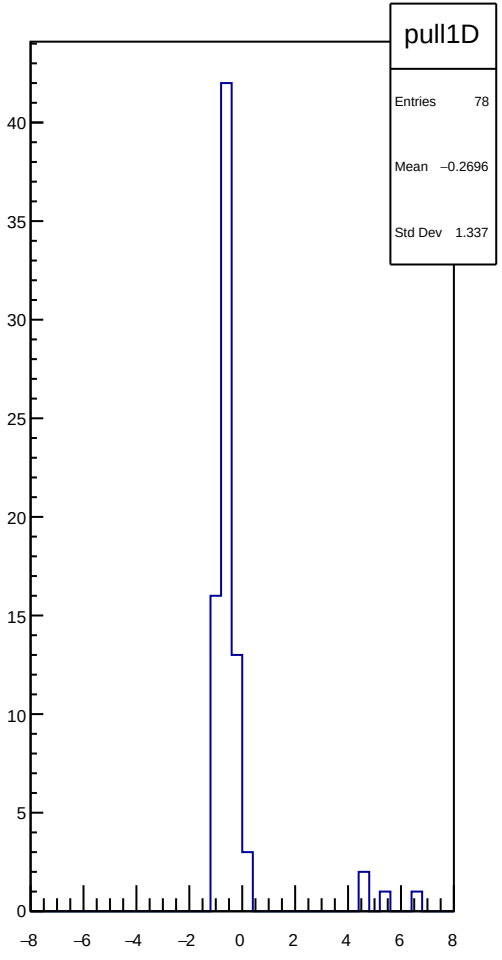

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 329.3 / 77
p0 1.966 ± 0.9131
pull
Entries 78
Mean 59.33
Std Dev 19.2
pull1D
Entries 78
Mean −0.9166
Std Dev 1.586

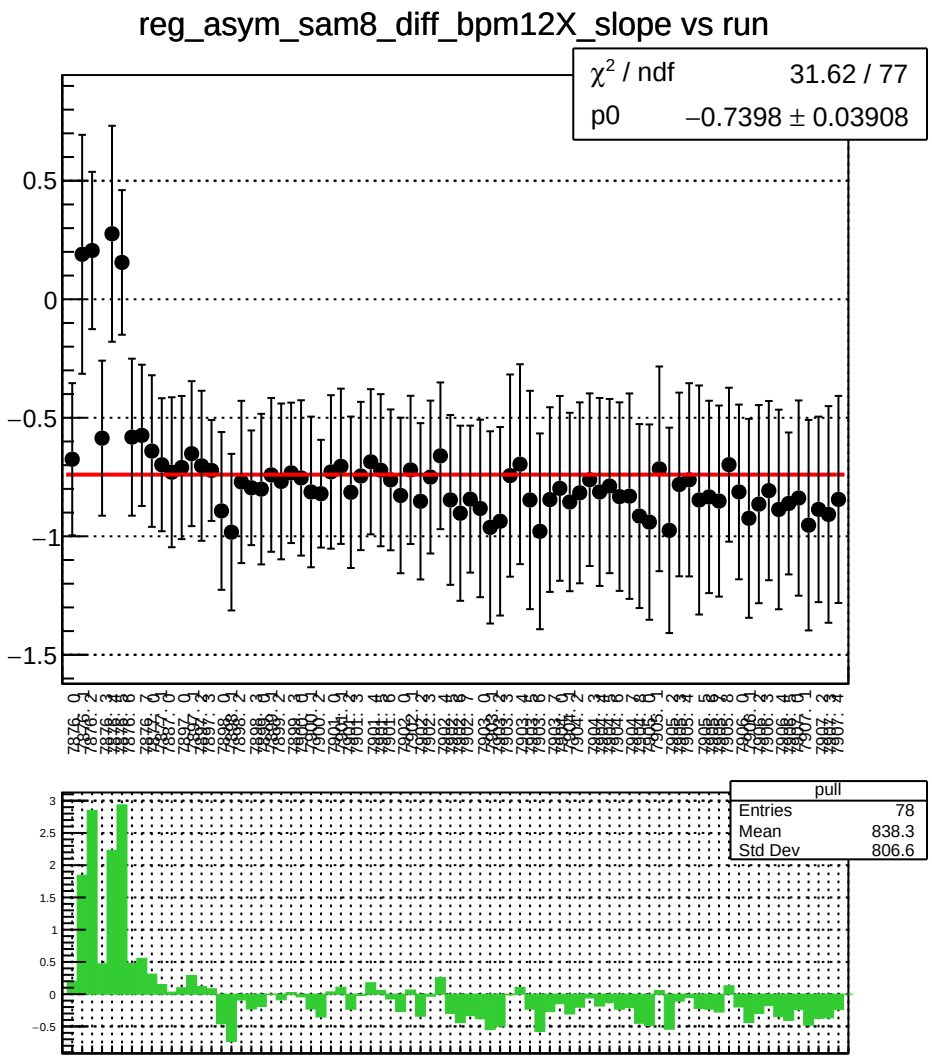

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 224.6 / 77
p0 −20.79 ± 0.9768
pull
Entries 78
Mean 67.75
Std Dev 30.63

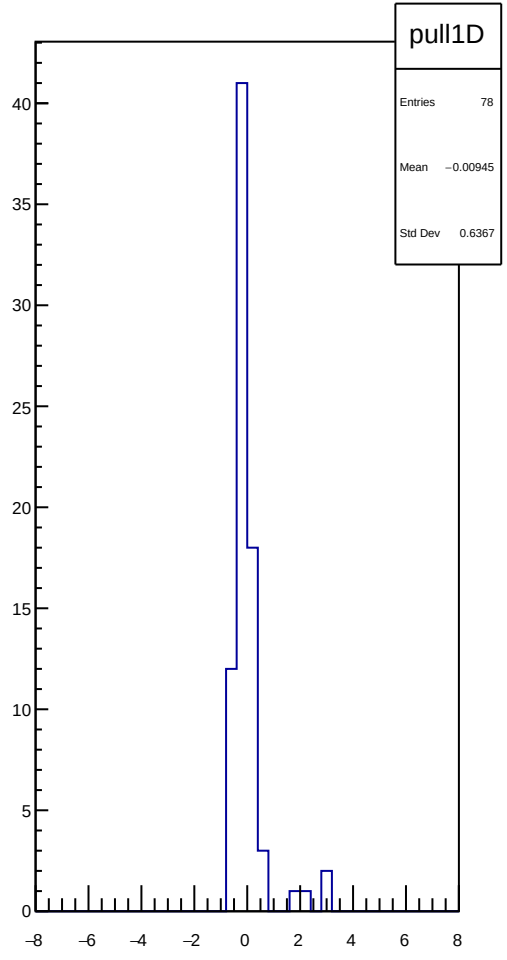

pull1D
Entries 78
Mean 0.5025
Std Dev 1.621

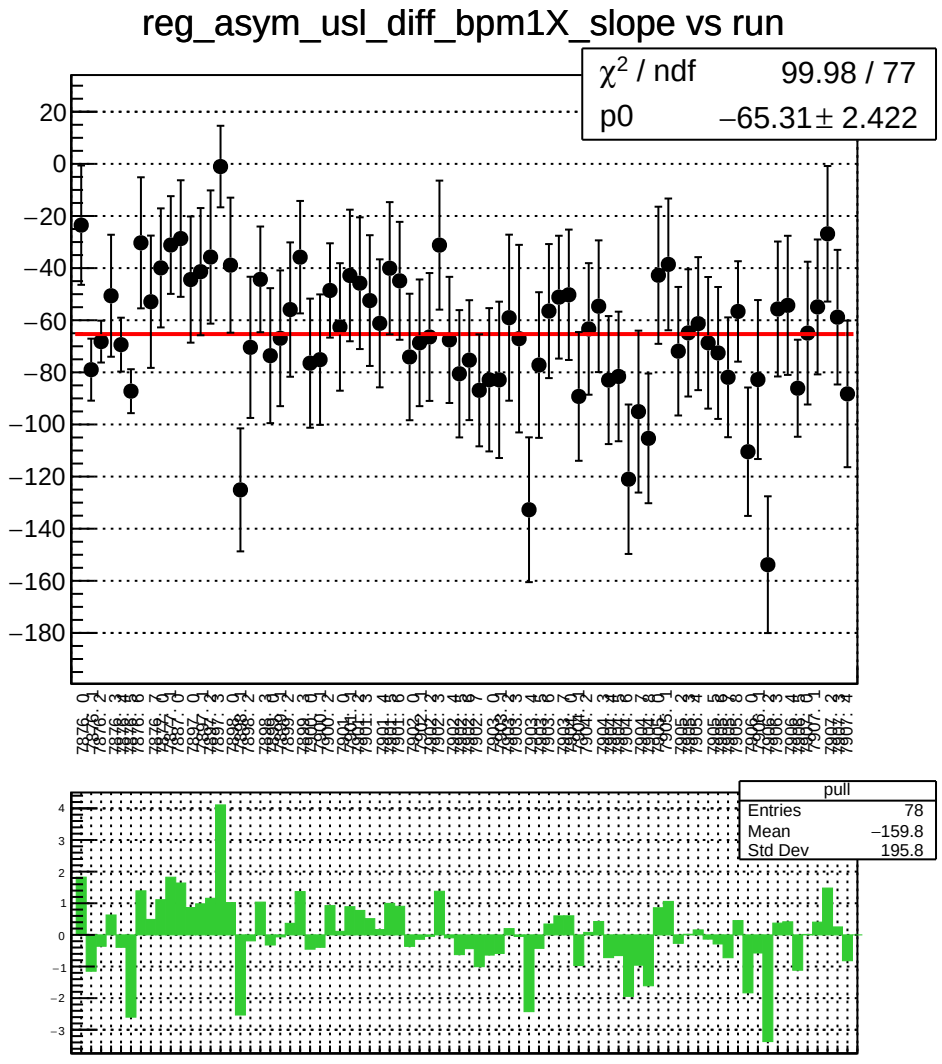

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 411.8 / 77
p0 −27.12 ± 0.7434
pull
Entries 78
Mean 57.04
Std Dev 15.32
pull1D
Entries 78
Mean 1.228
Std Dev 1.374

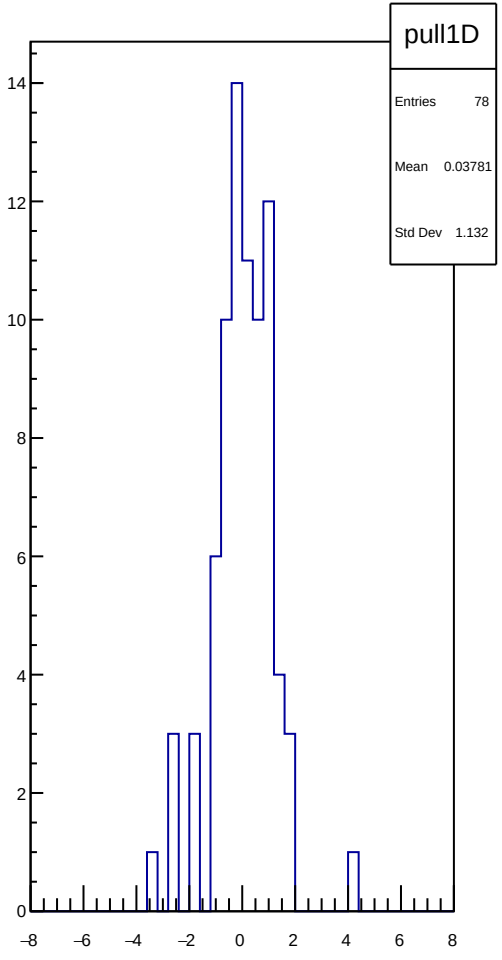

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 145.1 / 77
p0 11.91 ± 1.193
pull
Entries 78
Mean 87.11
Std Dev 52.76

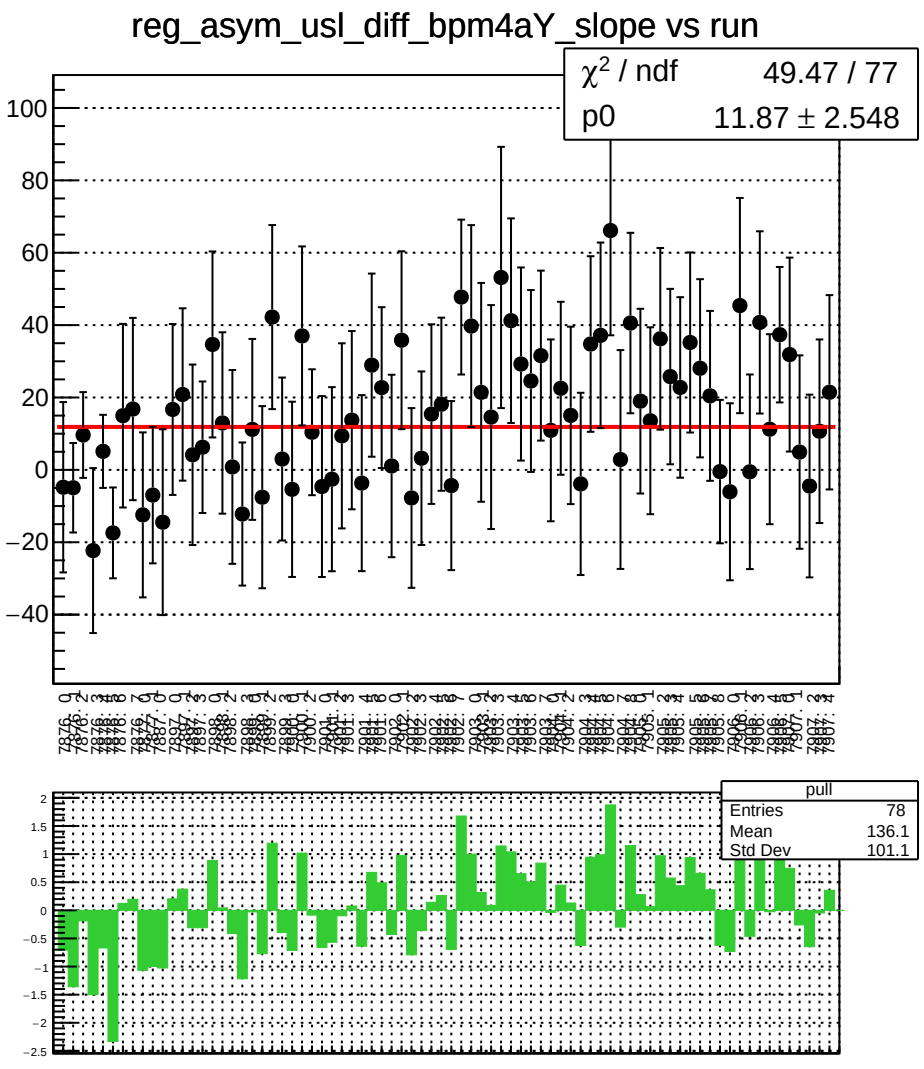

pull1D
Entries 78
Mean −0.2696
Std Dev 1.337

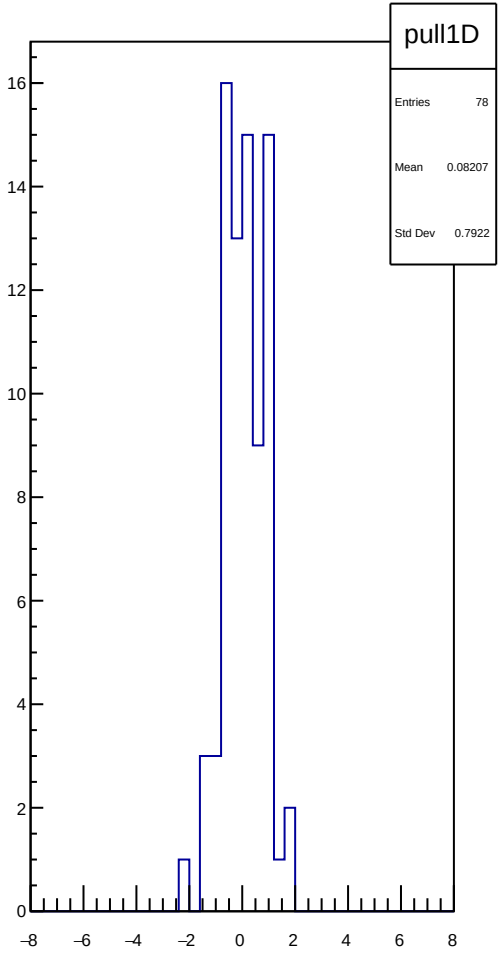

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 31.62 / 77
p0 −0.7398 ± 0.03908
pull
Entries 78
Mean 838.3
Std Dev 806.6

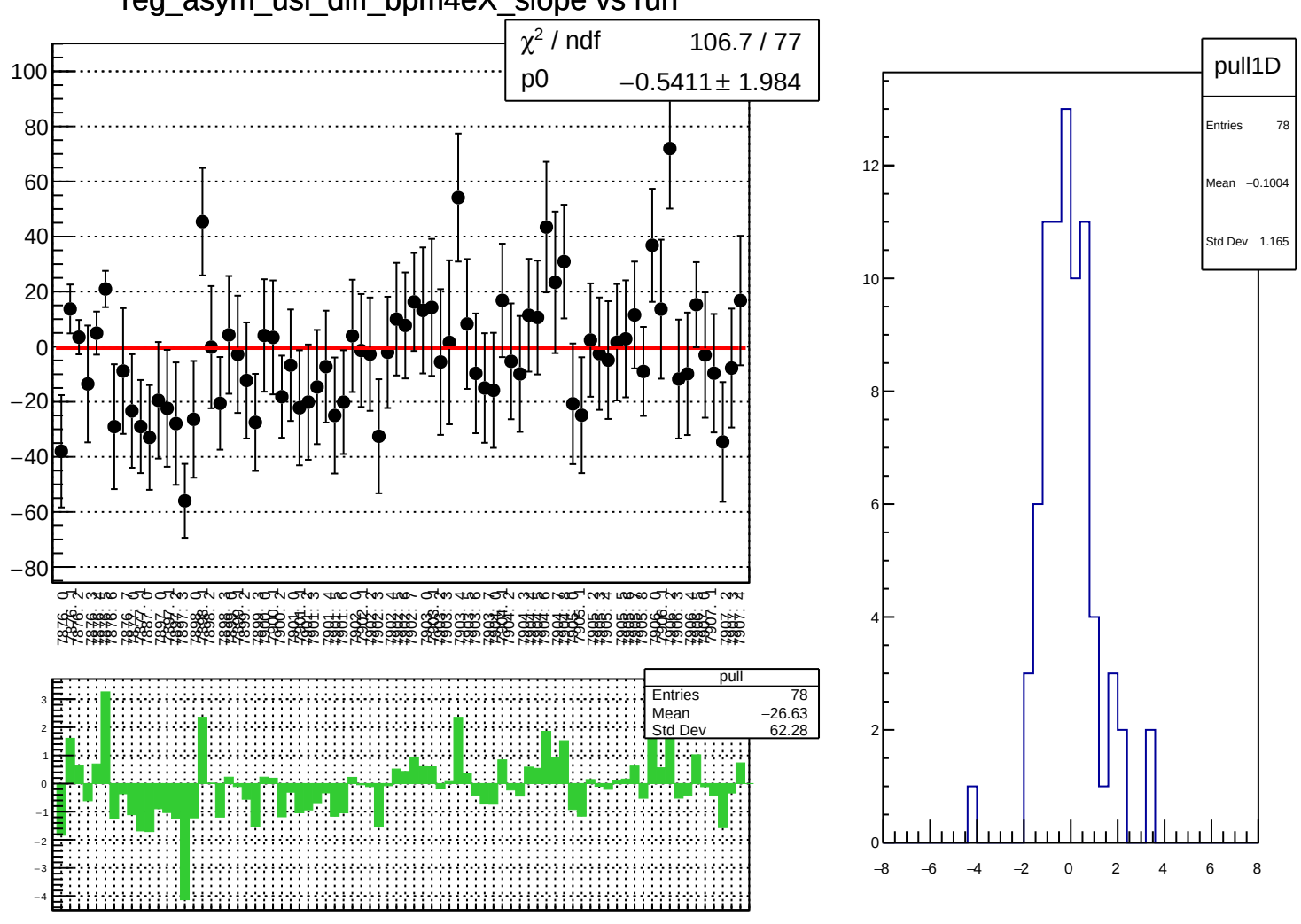

pull1D
Entries 78
Mean −0.00945
Std Dev 0.6367

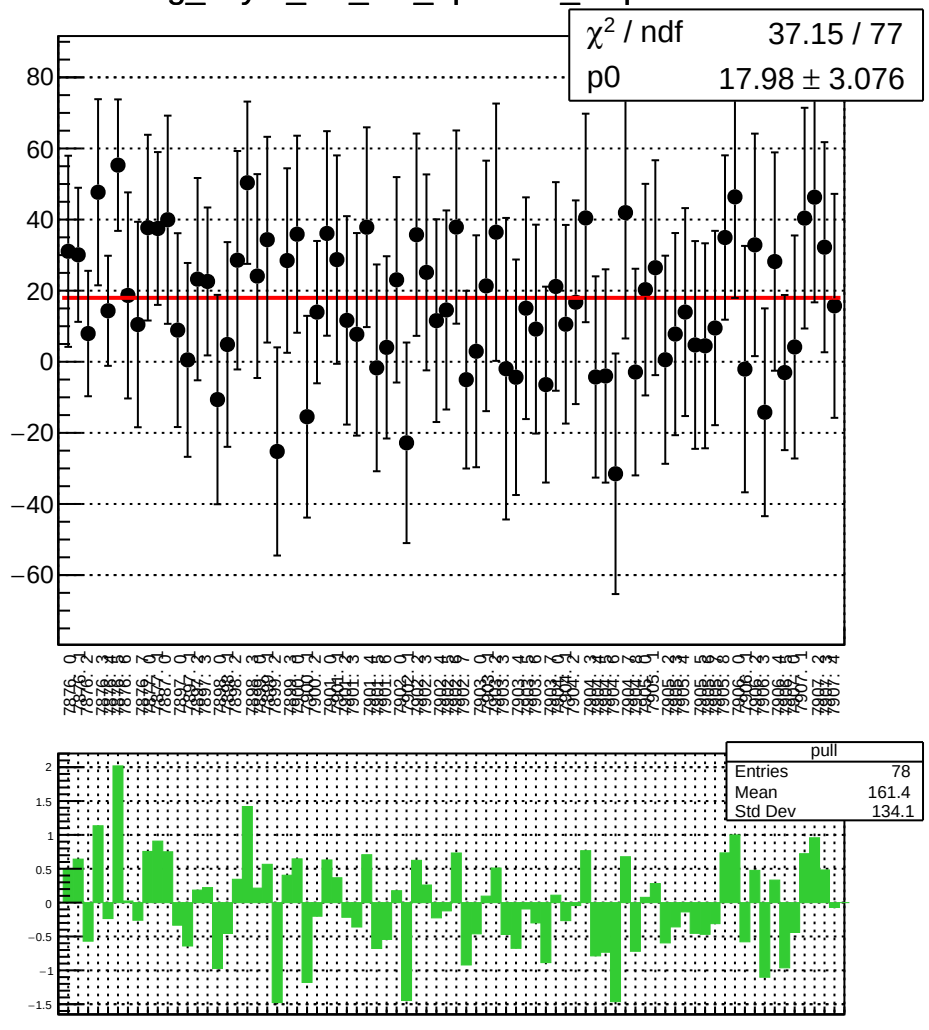

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 99.98 / 77
p0 −65.31 ± 2.422
pull
Entries 78
Mean −159.8
Std Dev 195.8

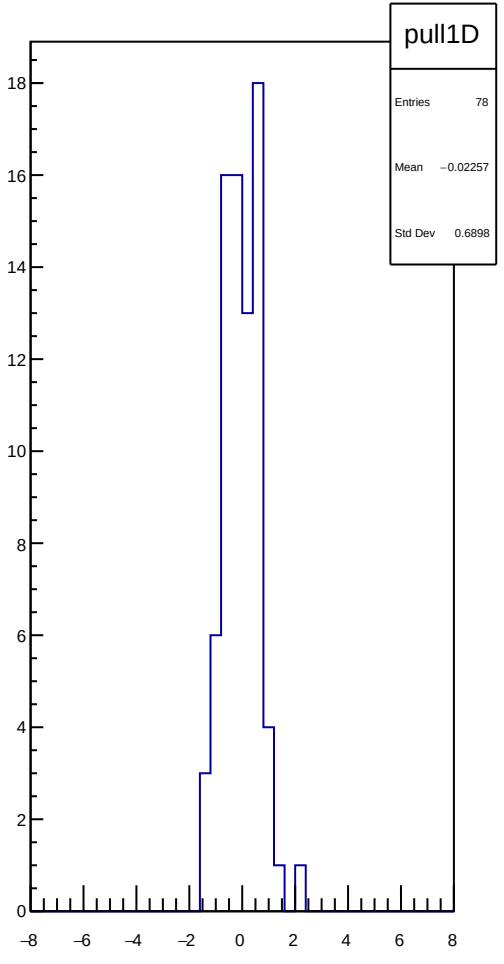

pull1D
Entries 78
Mean 0.03781
Std Dev 1.132

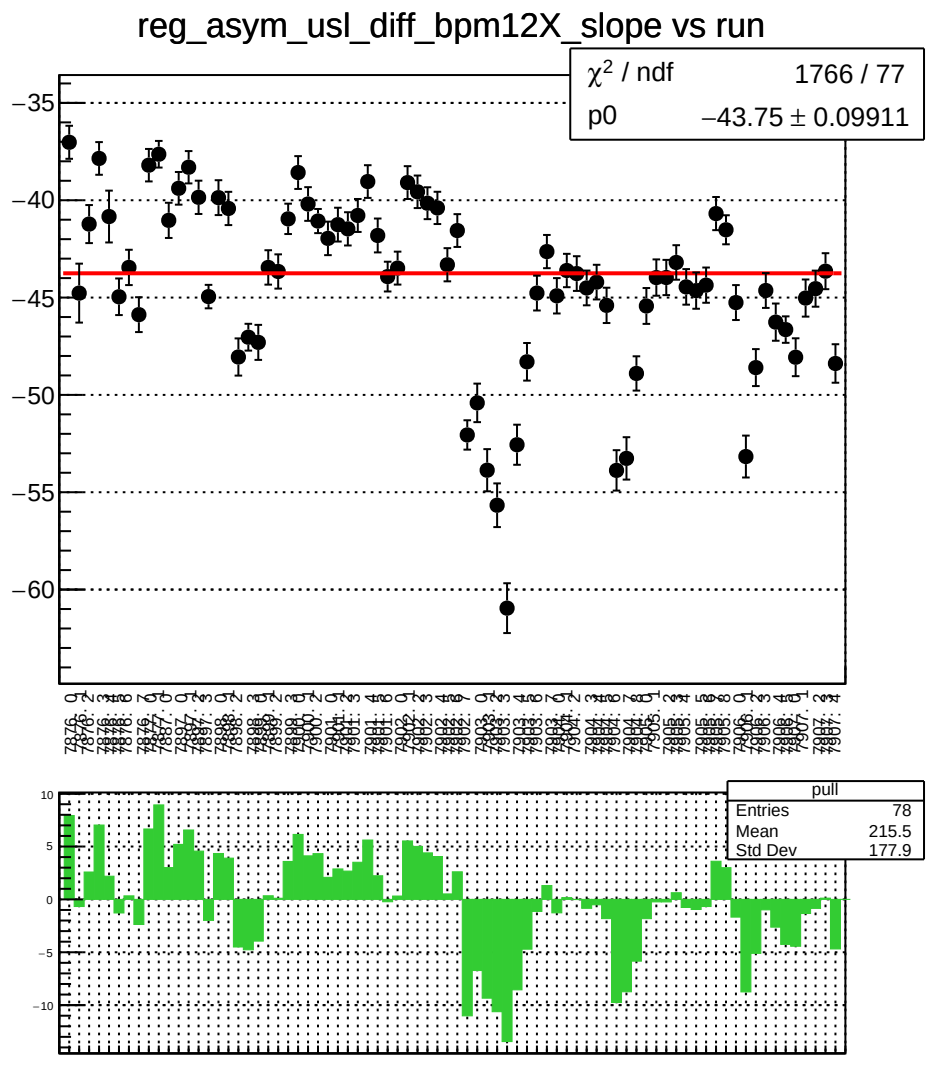

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 49.47 / 77
p0 11.87 ± 2.548
pull
Entries 78
Mean 136.1
Std Dev 101.1

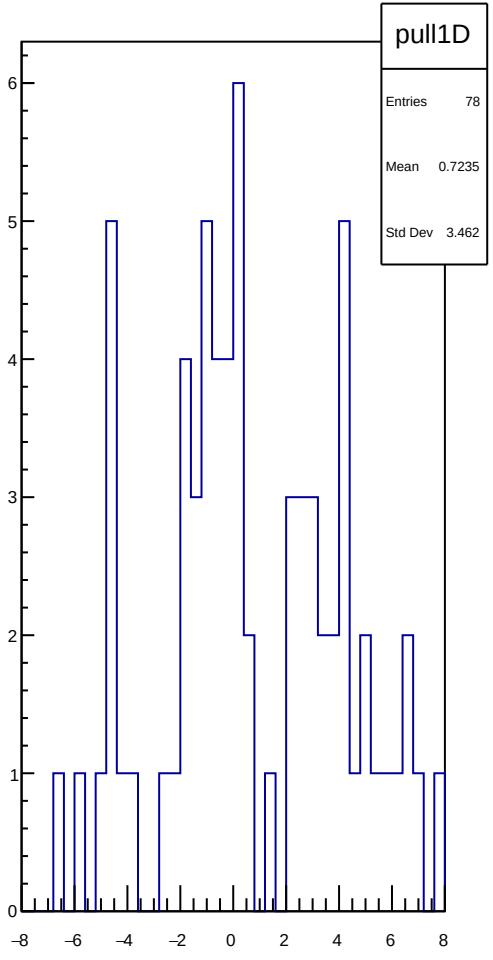

pull1D
Entries 78
Mean 0.08207
Std Dev 0.7922

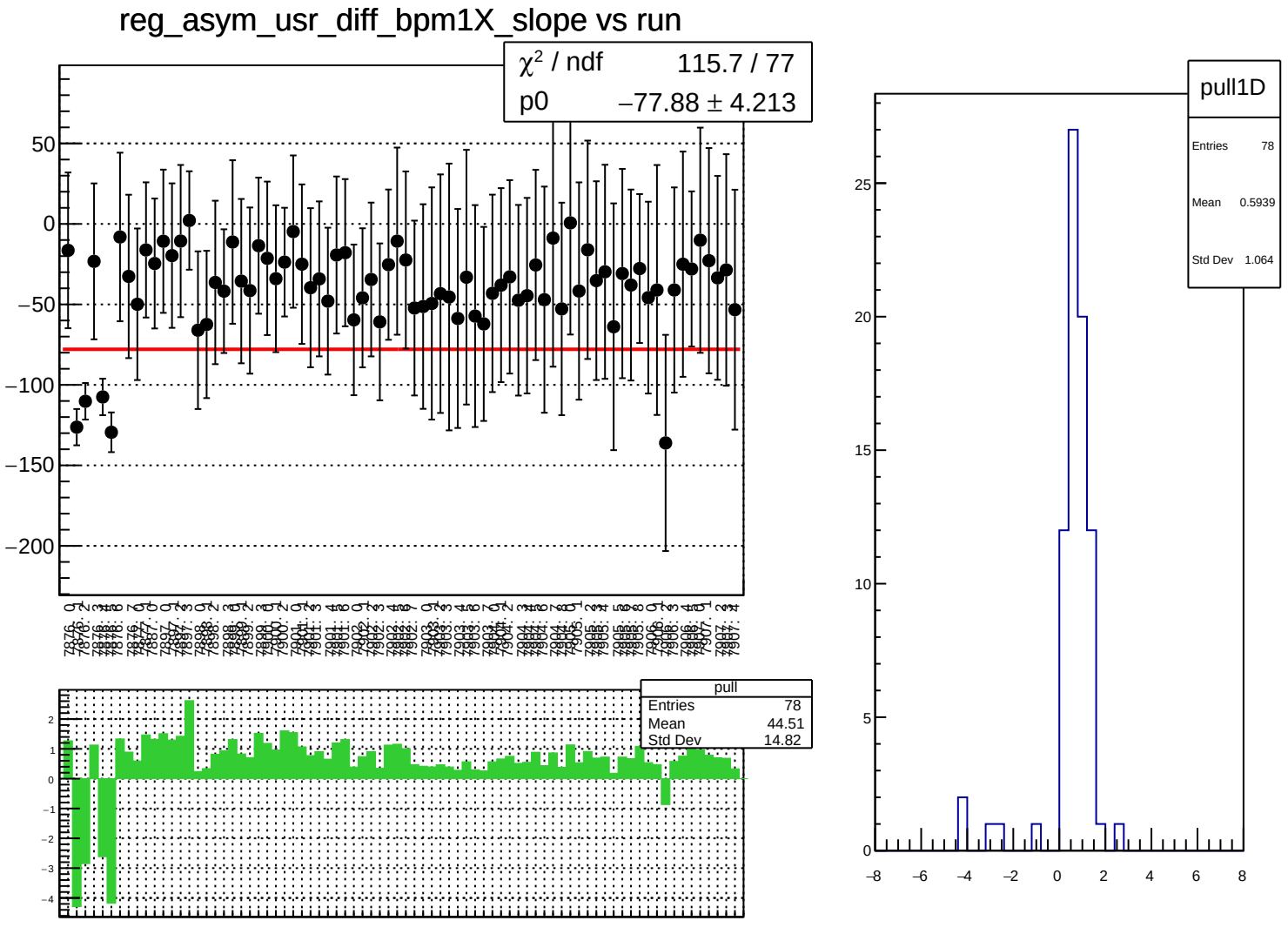

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 106.7 / 77
p0 −0.5411 ± 1.984
pull
Entries 78
Mean −26.63
Std Dev 62.28
pull1D
Entries 78
Mean −0.1004
Std Dev 1.165

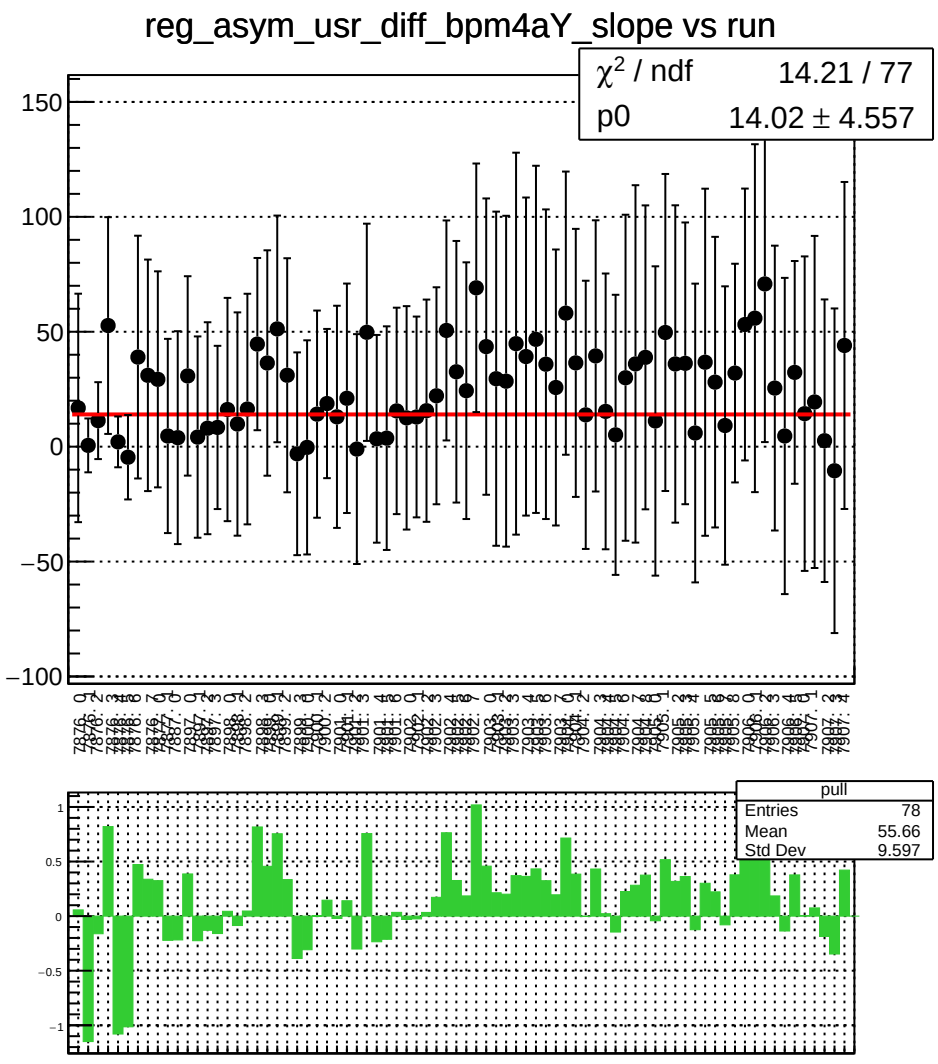

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 37.15 / 77
p0 17.98 ± 3.076
pull
Entries 78
Mean 161.4
Std Dev 134.1

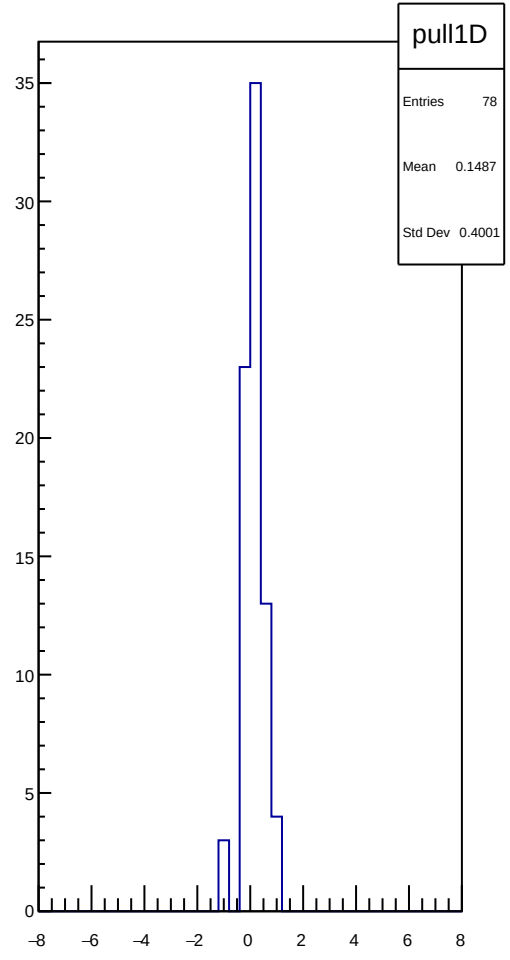

pull1D
Entries 78
Mean −0.02257
Std Dev 0.6898

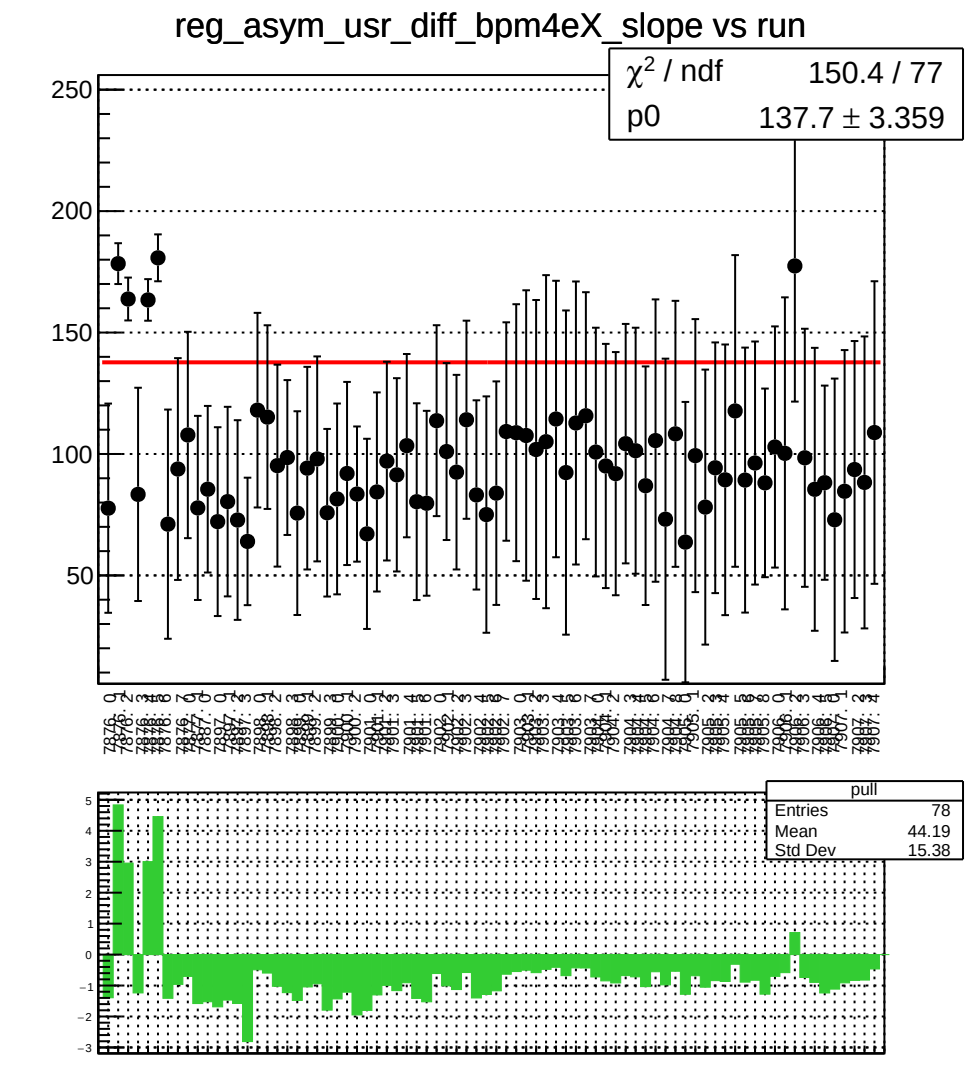

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 1766 / 77
p0 −43.75 ± 0.09911
pull
Entries 78
Mean 215.5
Std Dev 177.9

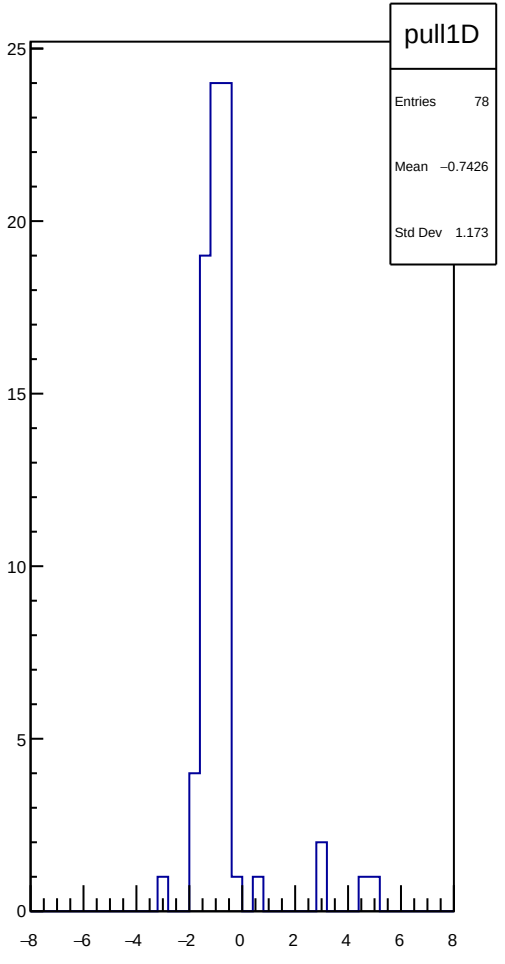

pull1D
Entries 78
Mean 0.7235
Std Dev 3.462

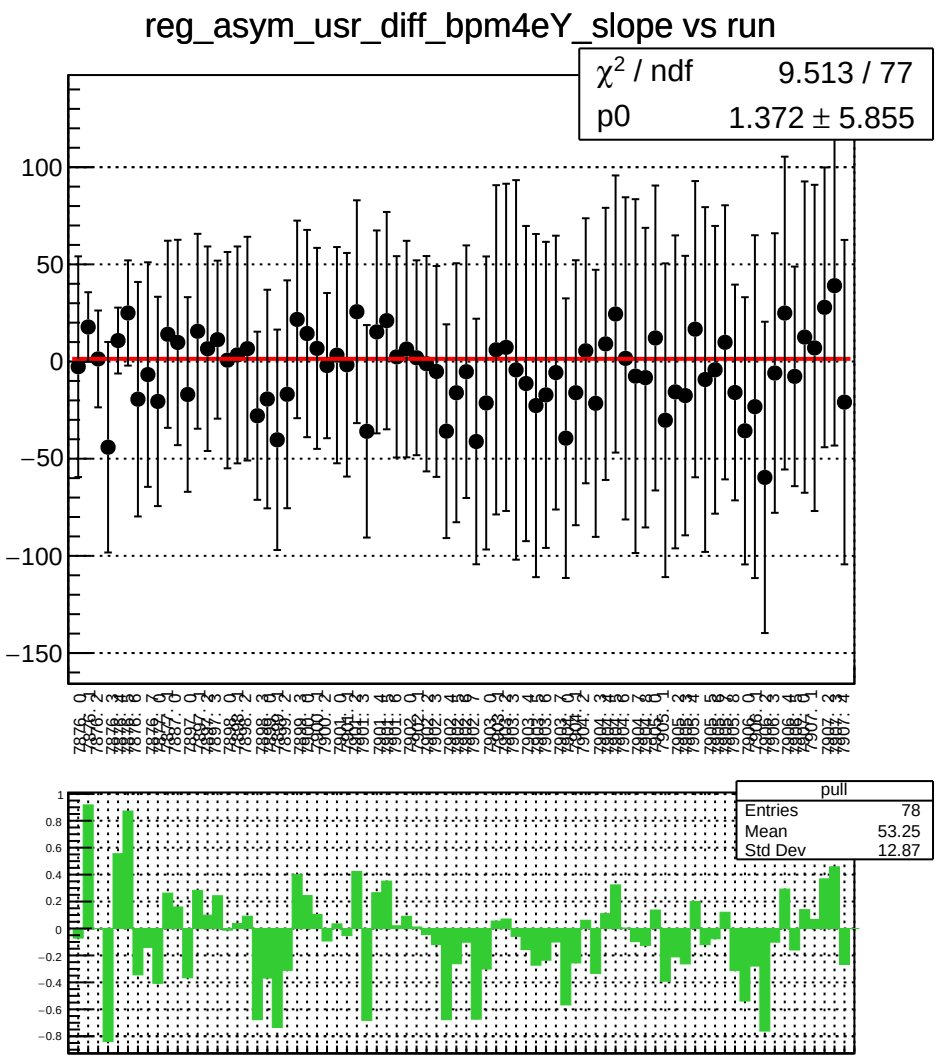

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 115.7 / 77
p0 −77.88 ± 4.213
50
0
−50
−100
−150
−200
pull
Entries 78
Mean 44.51
Std Dev 14.82
2
1
0
−1
−2
−3
−4
pull1D
Entries 78
Mean 0.5939
Std Dev 1.064
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

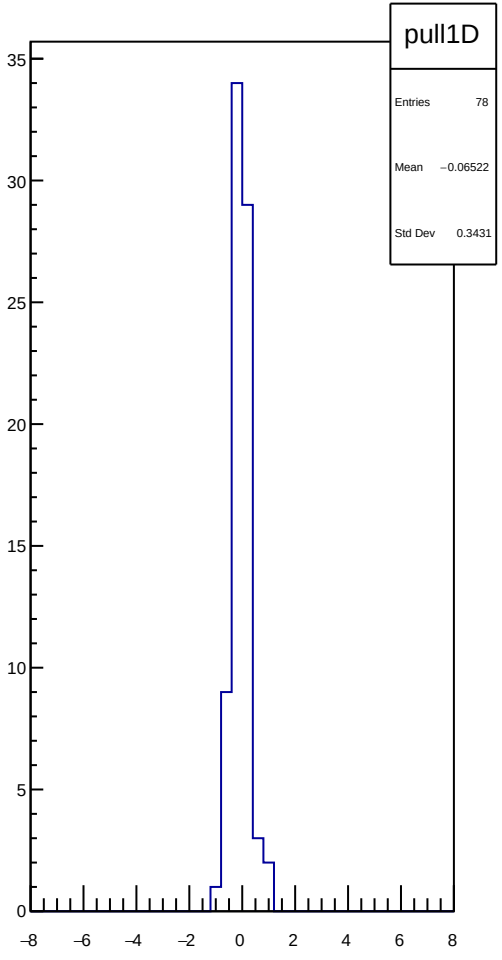

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 14.21 / 77
p0 14.02 ± 4.557
150
100
50
0
−50
−100
pull
Entries 78
Mean 55.66
Std Dev 9.597
1
0.5
0
−0.5
−1

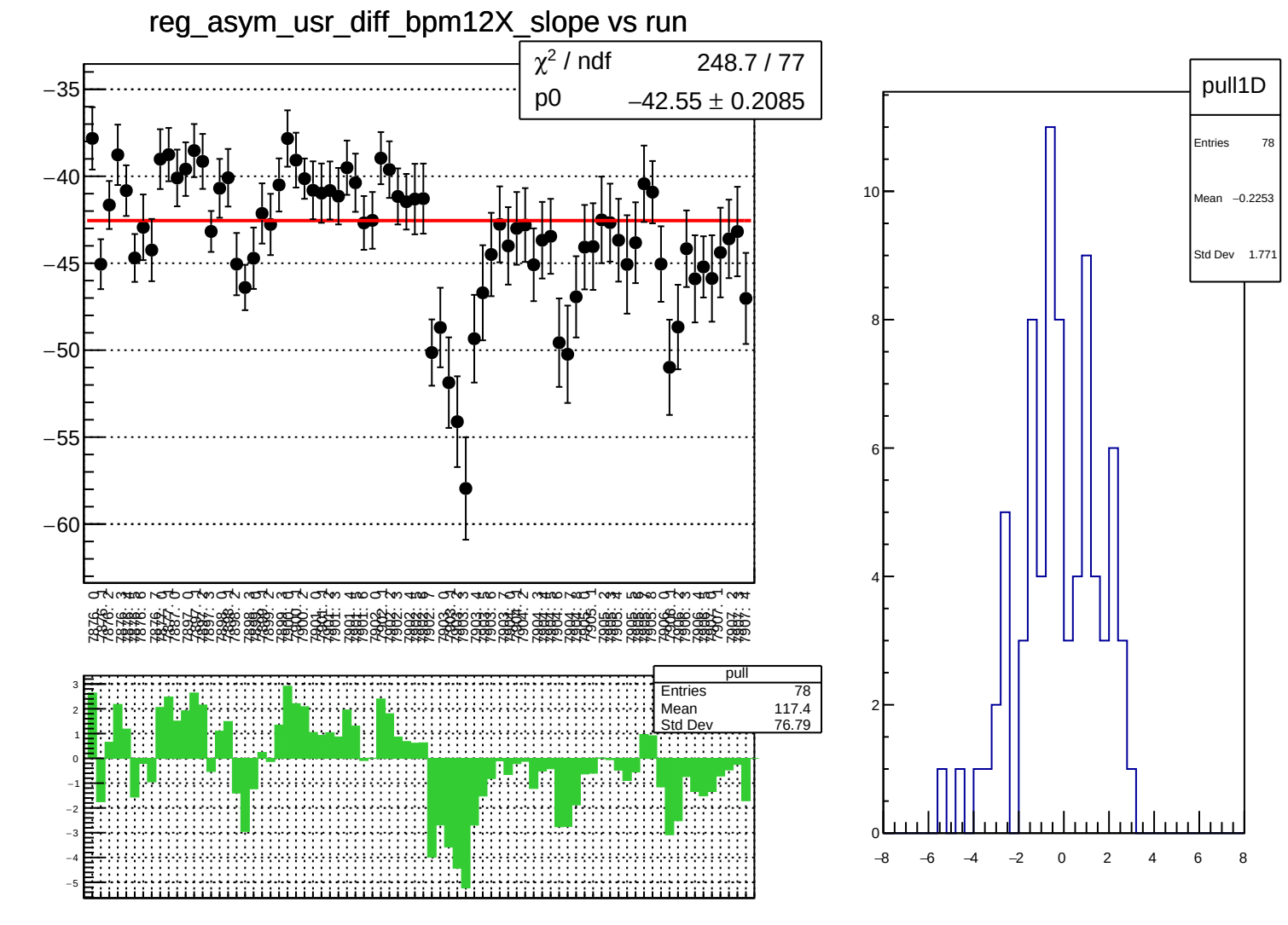

pull1D
Entries 78
Mean 0.1487
Std Dev 0.4001
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

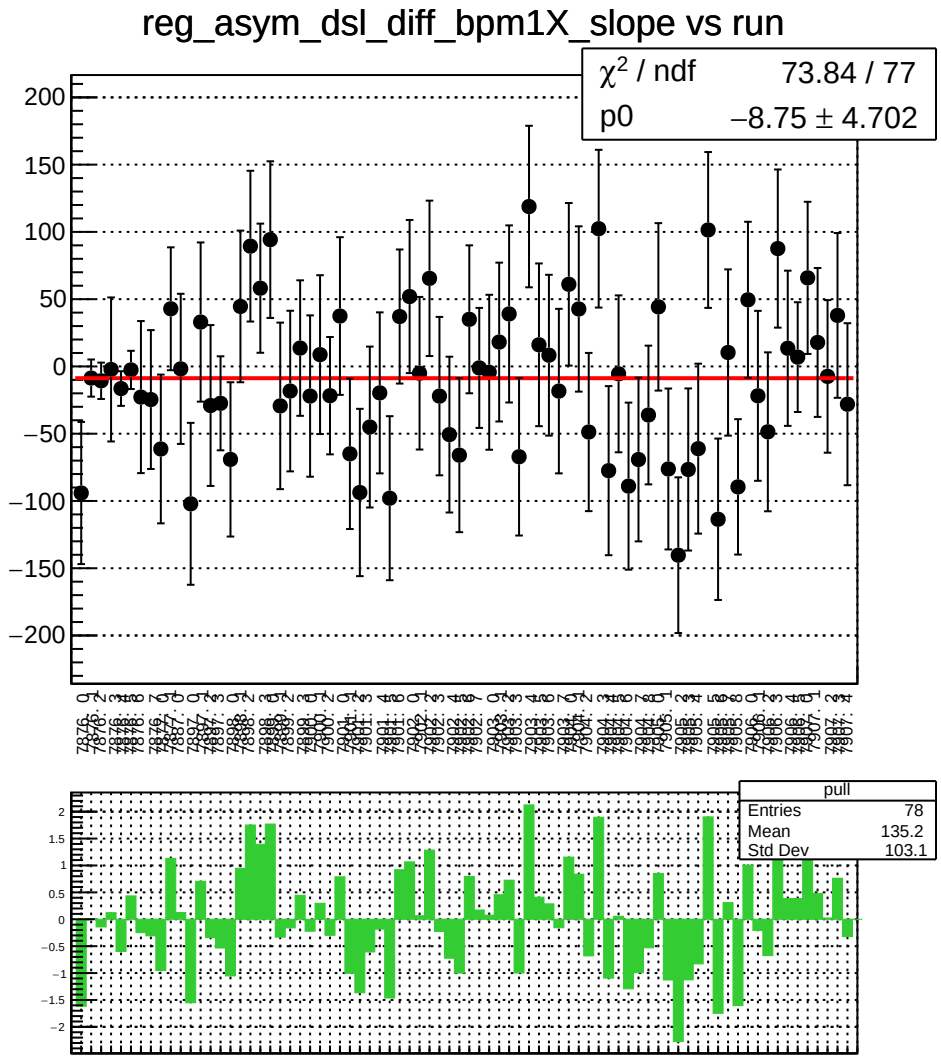

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 150.4 / 77
p0 137.7 ± 3.359
pull
Entries 78
Mean 44.19
Std Dev 15.38

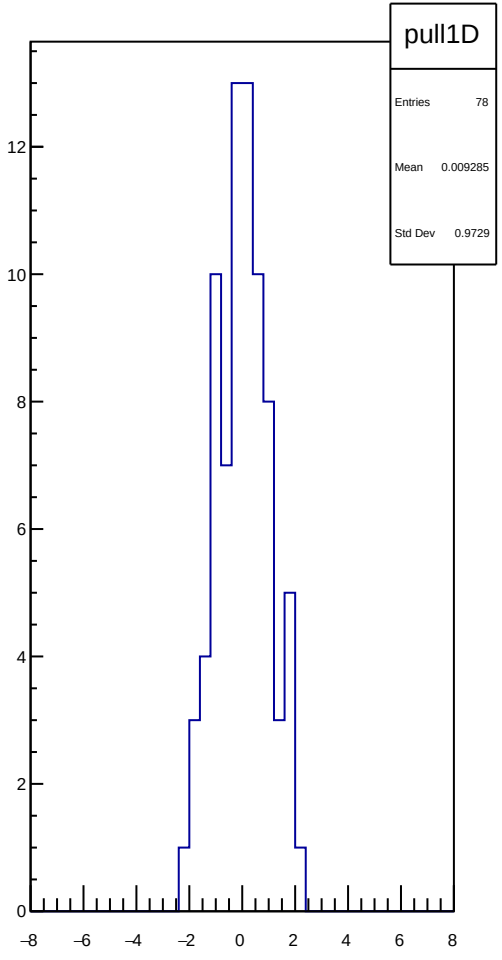

pull1D
Entries 78
Mean −0.7426
Std Dev 1.173

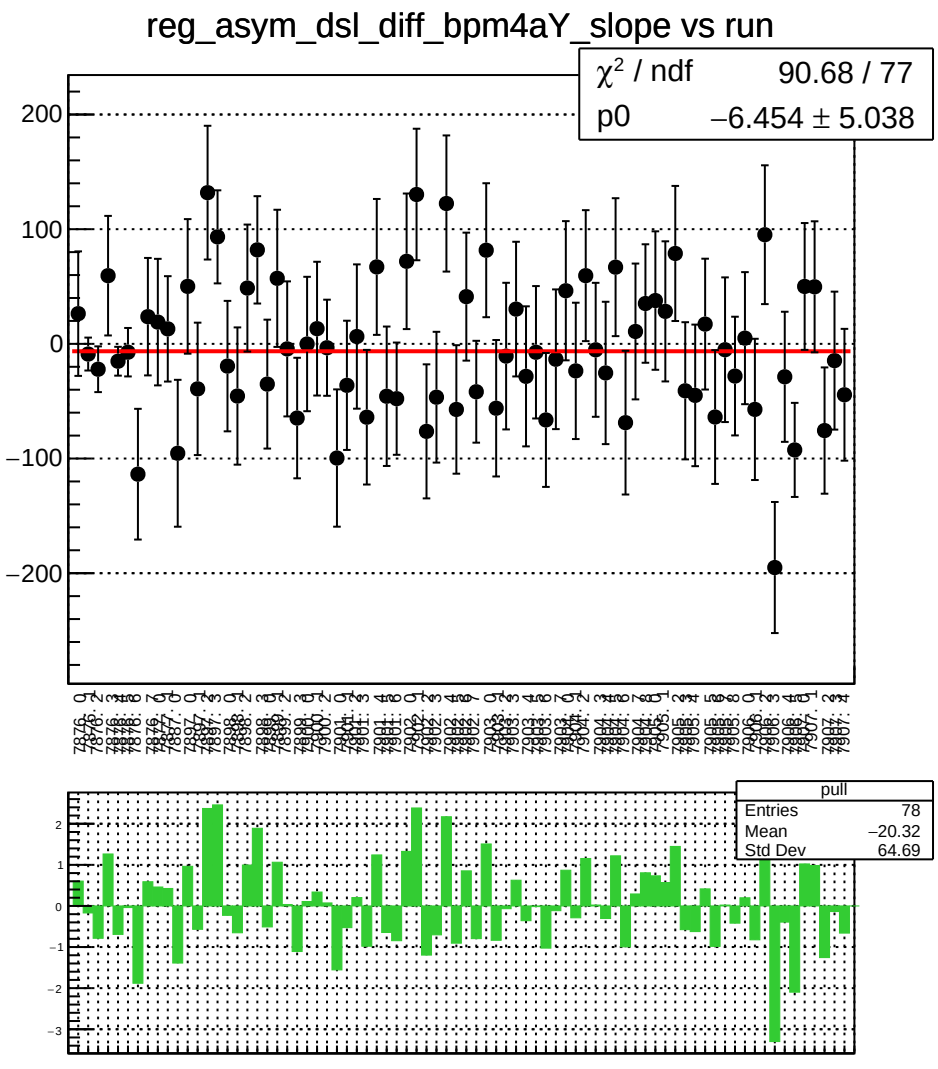

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 9.513 / 77
p0 1.372 ± 5.855
pull
Entries 78
Mean 53.25
Std Dev 12.87

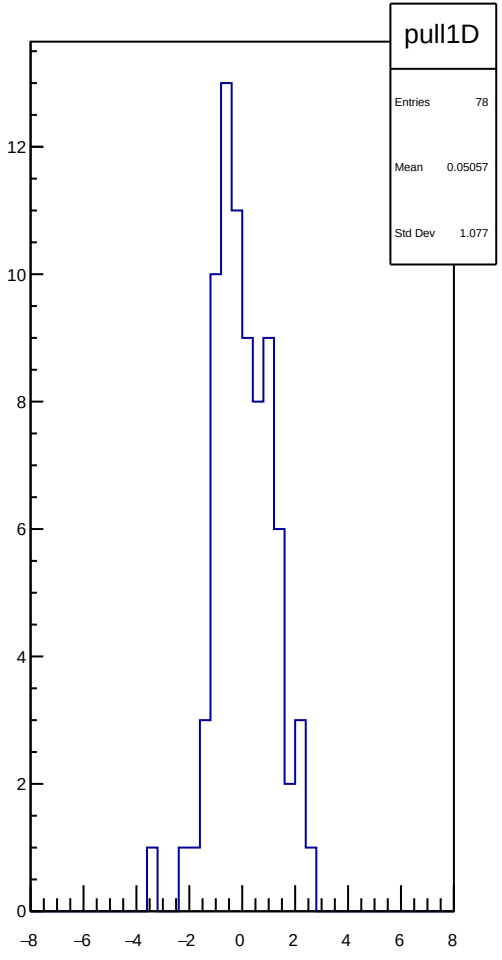

pull1D
Entries 78
Mean −0.06522
Std Dev 0.3431

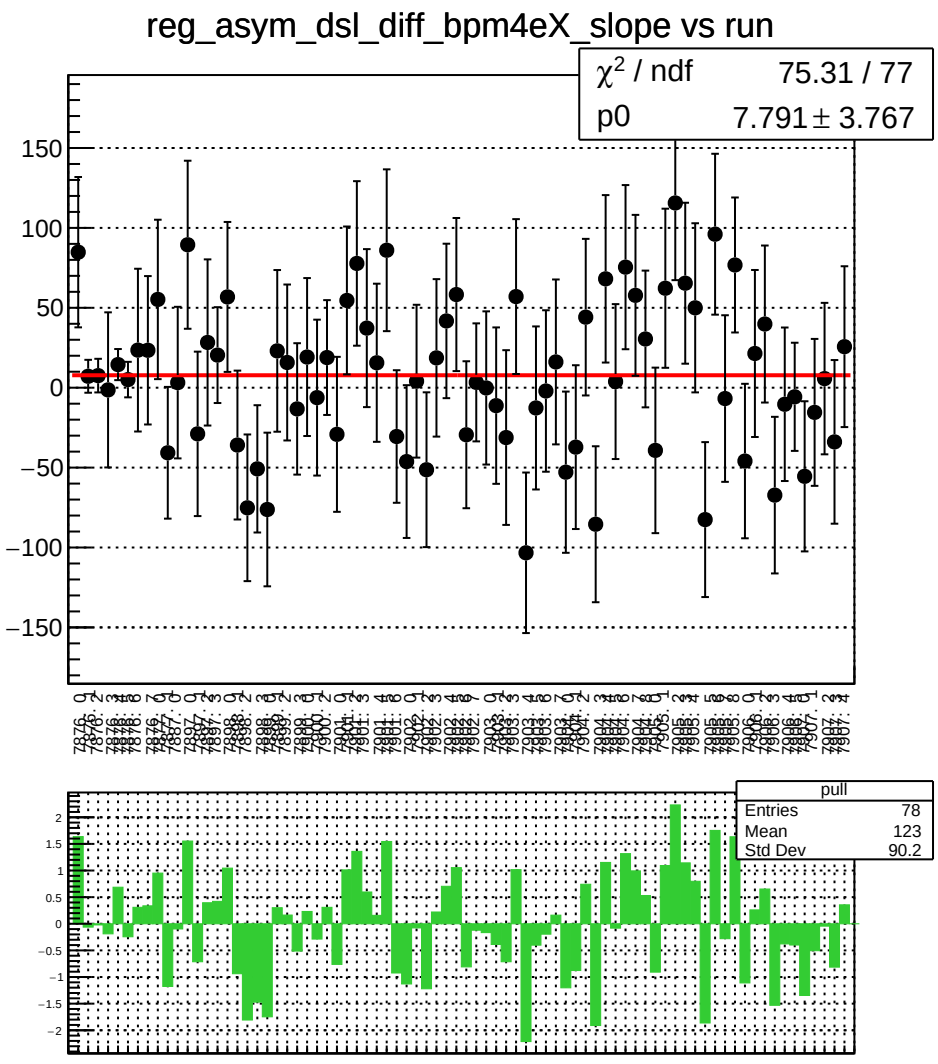

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 248.7 / 77
p0 −42.55 ± 0.2085
pull
Entries 78
Mean 117.4
Std Dev 76.79
pull1D
Entries 78
Mean −0.2253
Std Dev 1.771

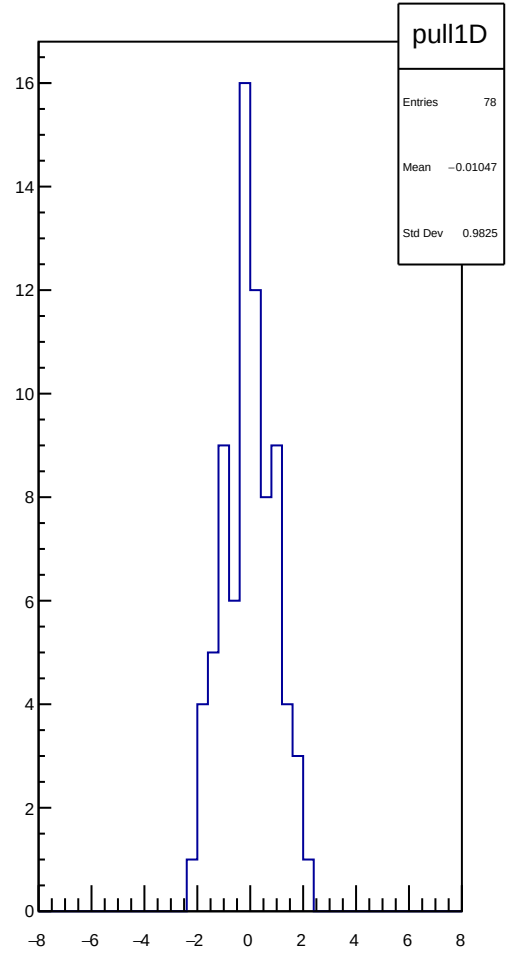

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 73.84 / 77
p0 −8.75 ± 4.702
pull
Entries 78
Mean 135.2
Std Dev 103.1

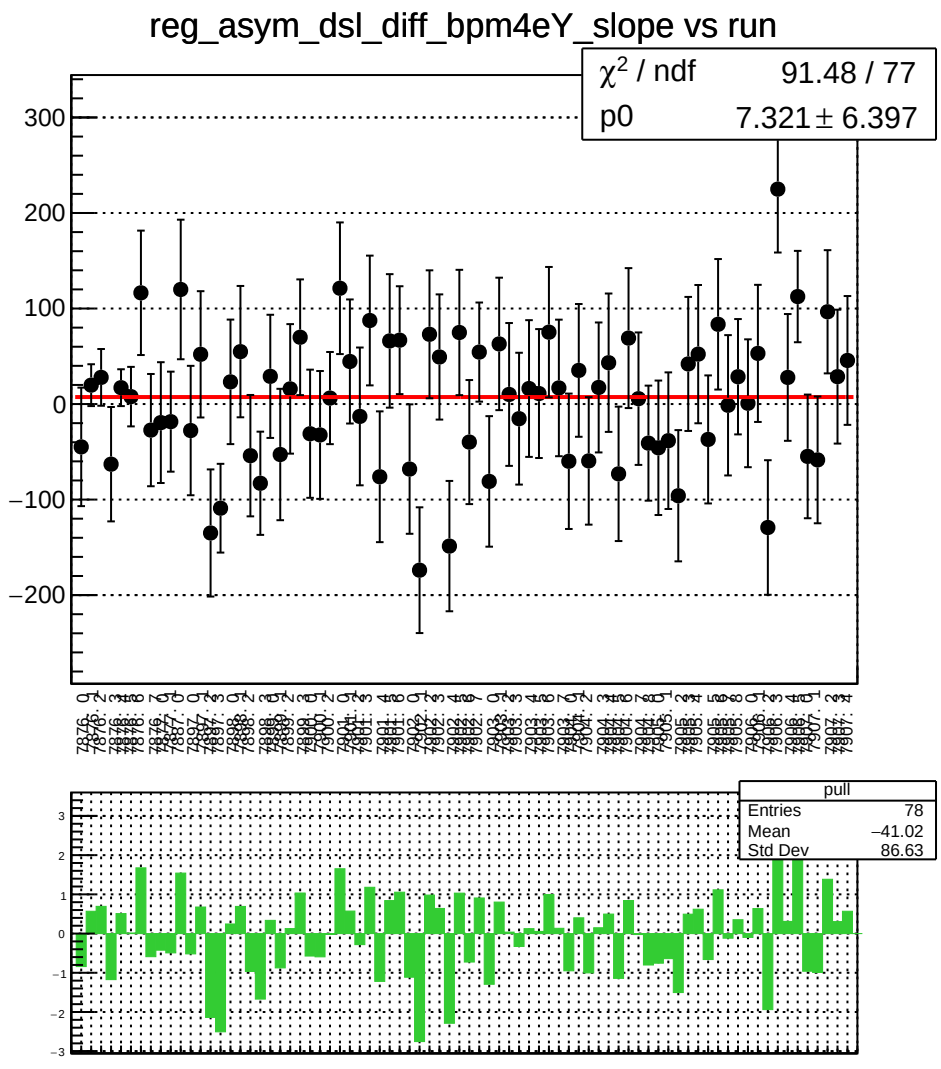

pull1D
Entries 78
Mean 0.009285
Std Dev 0.9729

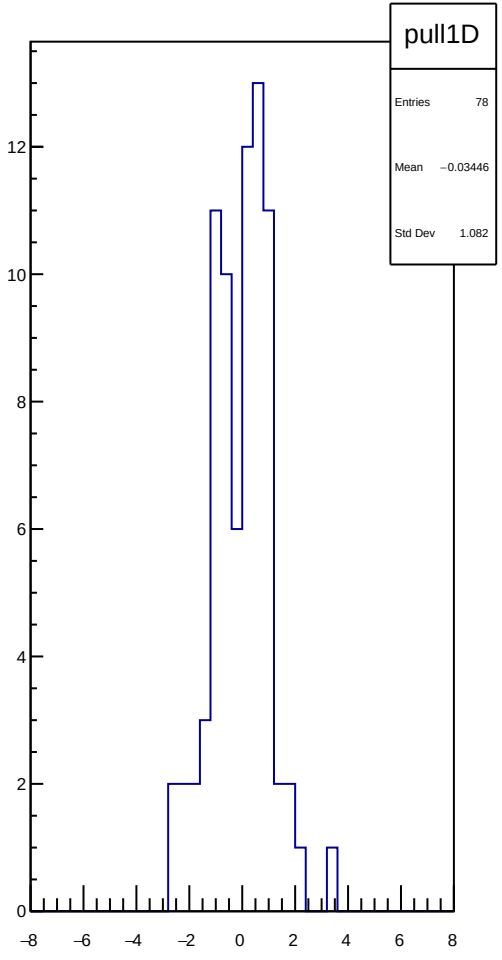

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 90.68 / 77
p0 −6.454 ± 5.038
200
100
0
−100
−200
pull
Entries 78
Mean −20.32
Std Dev 64.69
2
1
0
−1
−2
−3

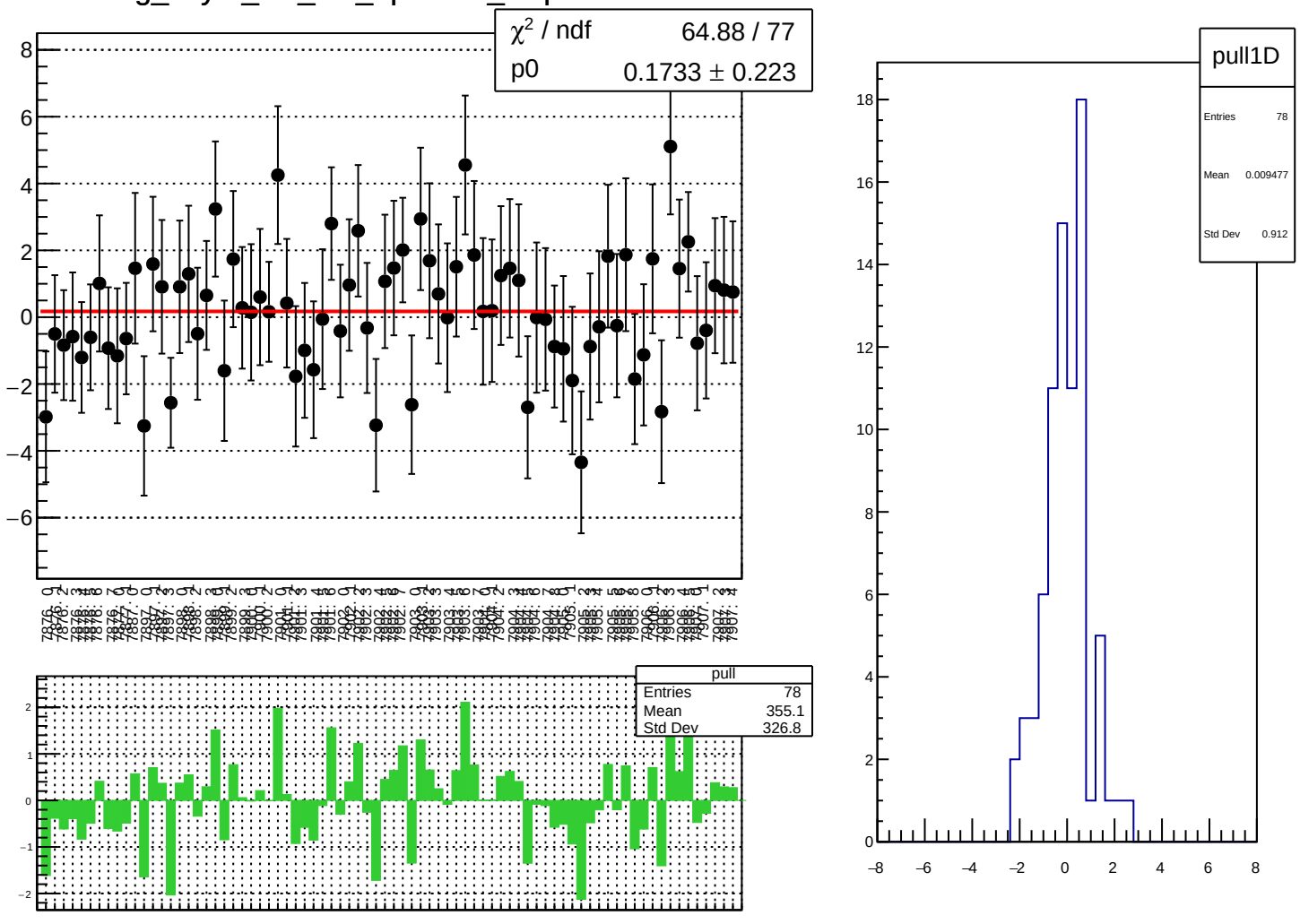

pull1D
Entries 78
Mean 0.05057
Std Dev 1.077
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

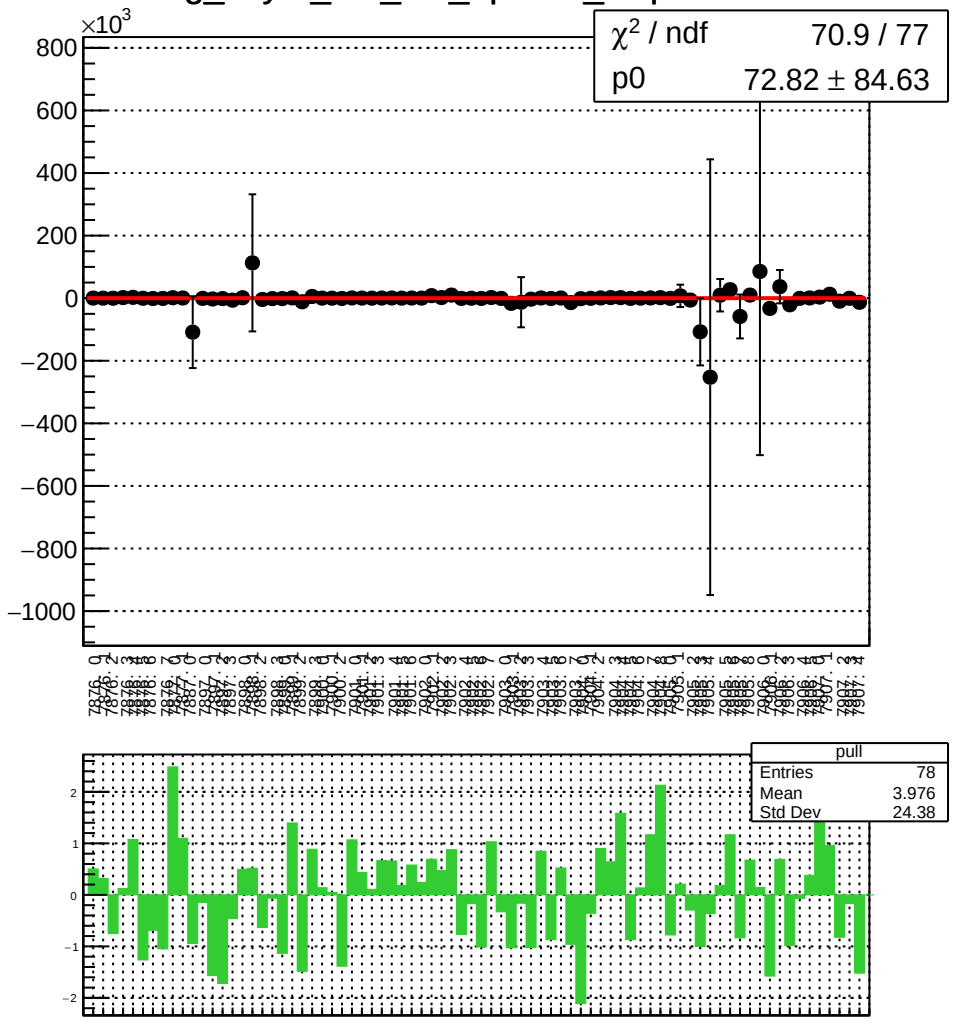

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 75.31 / 77
p0 7.791 ± 3.767
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 123
Std Dev 90.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

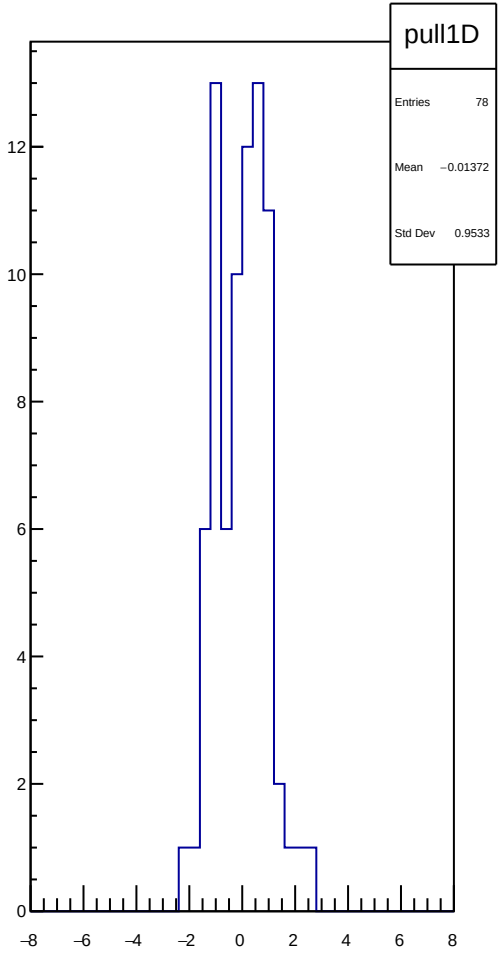

pull1D
Entries 78
Mean −0.01047
Std Dev 0.9825
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

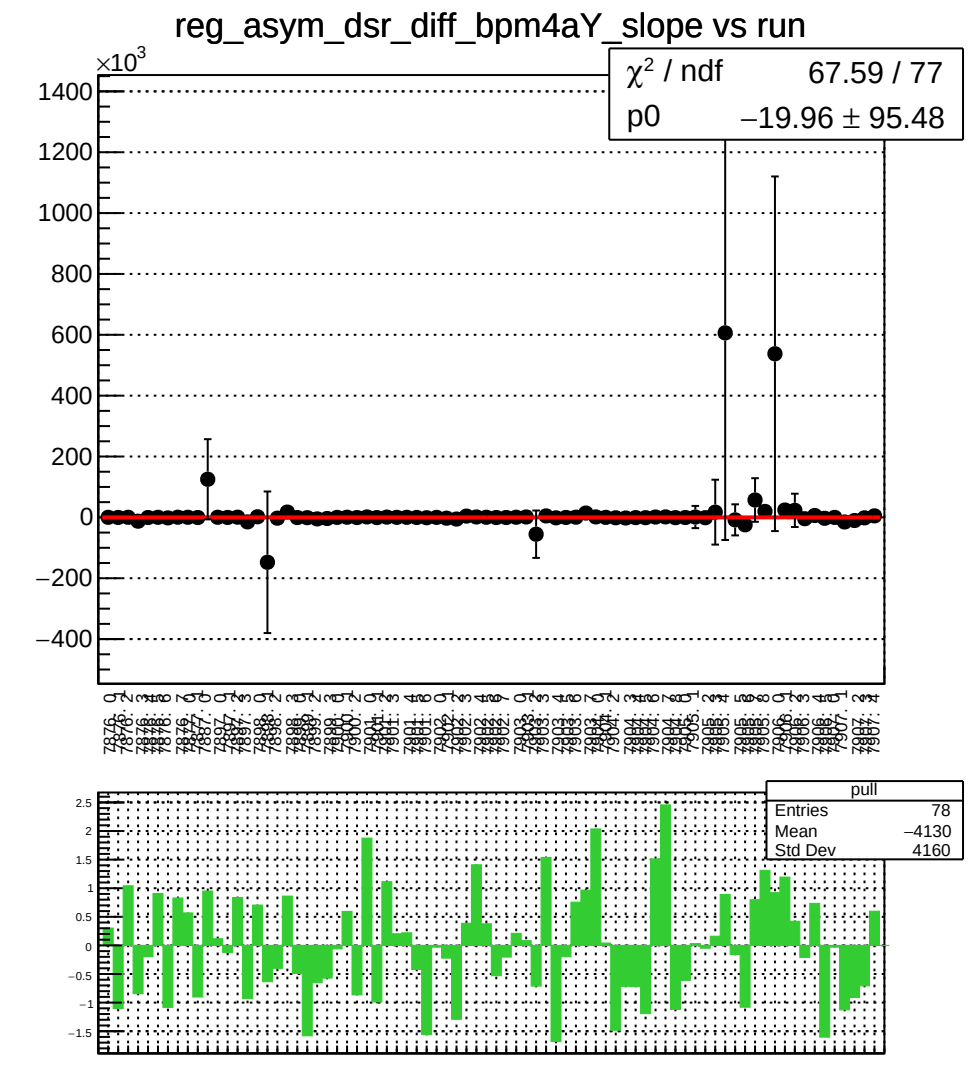

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 91.48 / 77
p0 7.321 ± 6.397
300
200
100
0
−100
−200
pull
Entries 78
Mean −41.02
Std Dev 86.63
3
2
1
0
−1
−2
−3

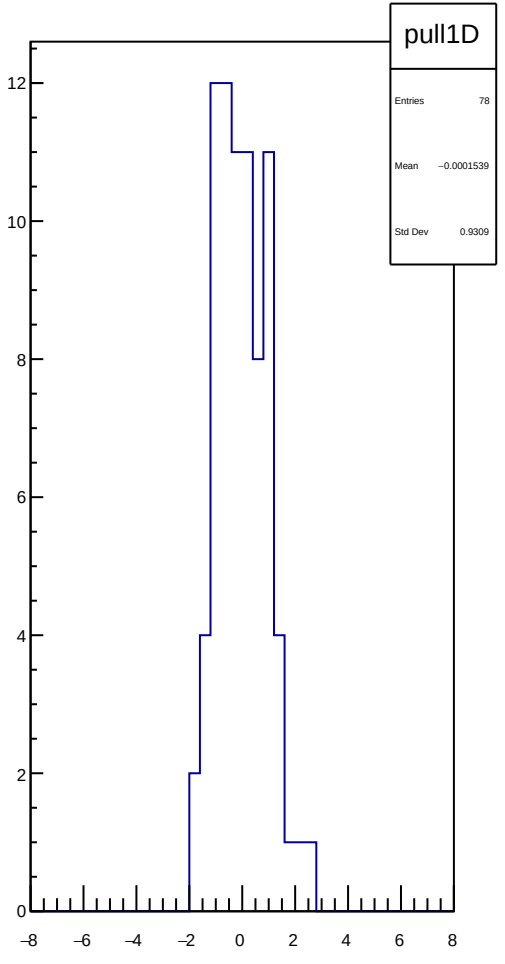

pull1D
Entries 78
Mean −0.03446
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

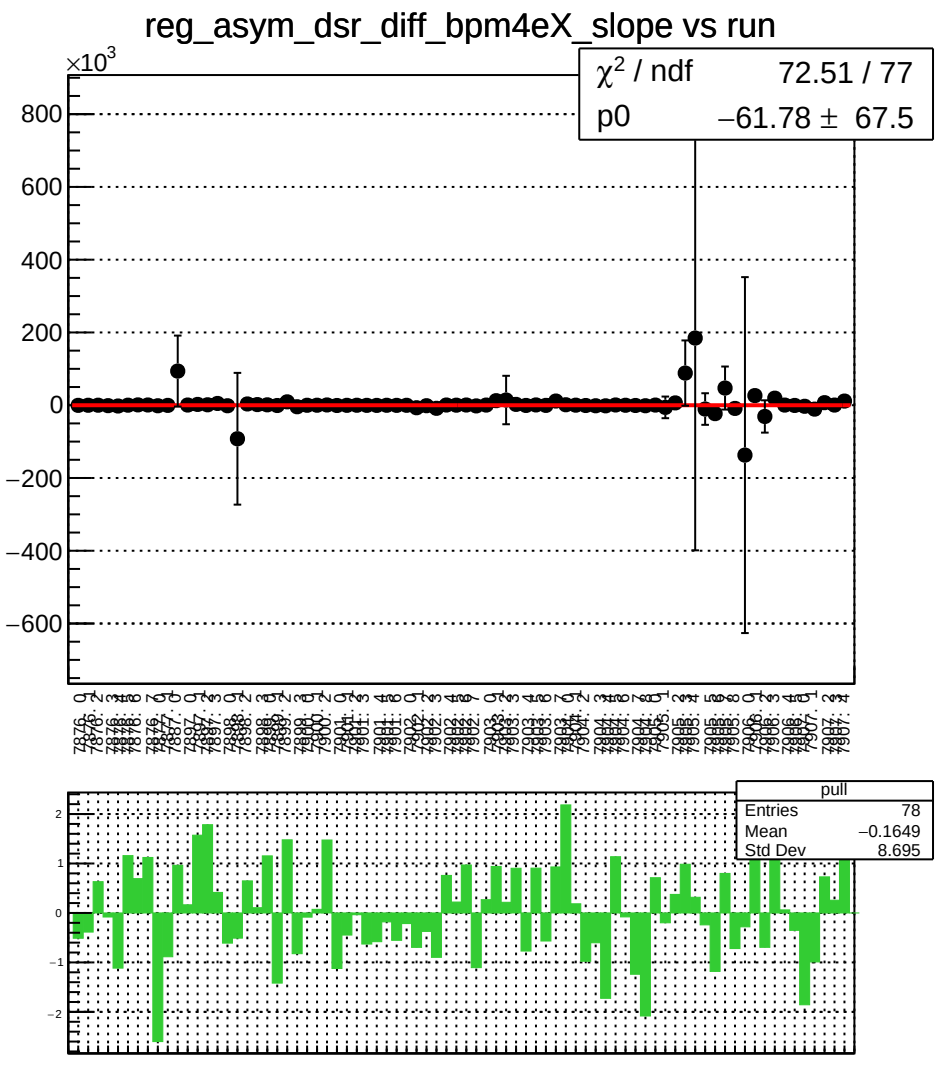

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 64.88 / 77
p0 0.1733 ± 0.223
pull
Entries 78
Mean 355.1
Std Dev 326.8
pull1D
Entries 78
Mean 0.009477
Std Dev 0.912

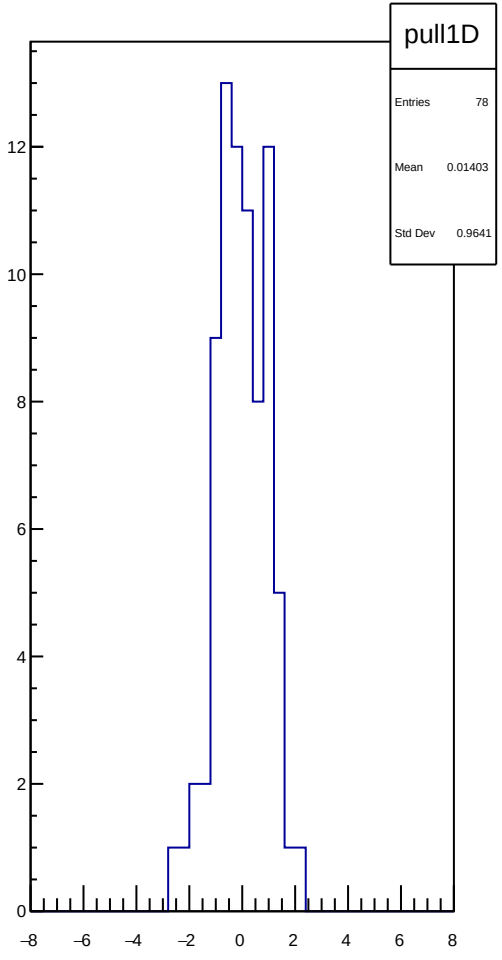

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 70.9 / 77
p0 72.82 ± 84.63
pull
Entries 78
Mean 3.976
Std Dev 24.38

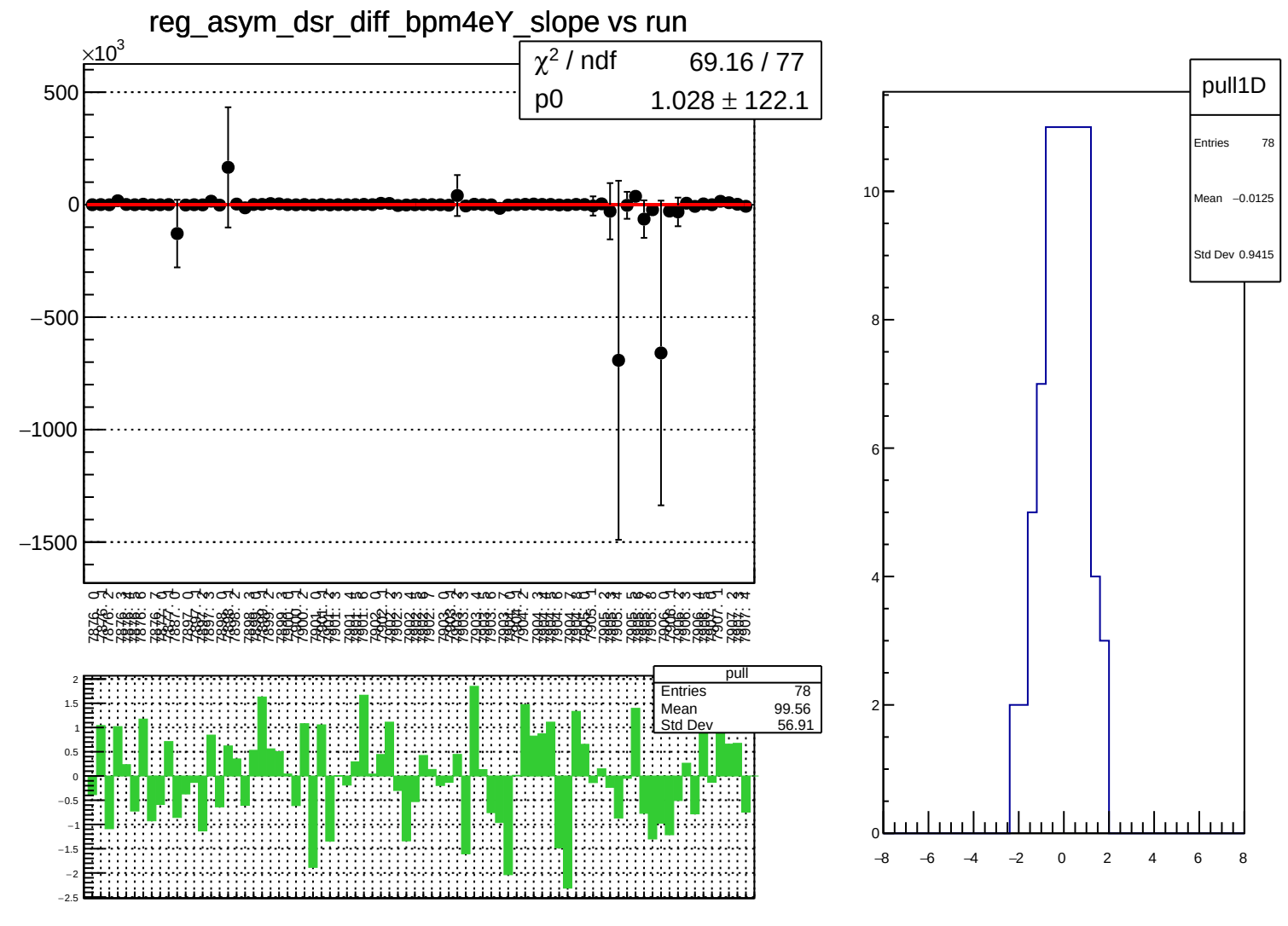

pull1D
Entries 78
Mean −0.01372
Std Dev 0.9533

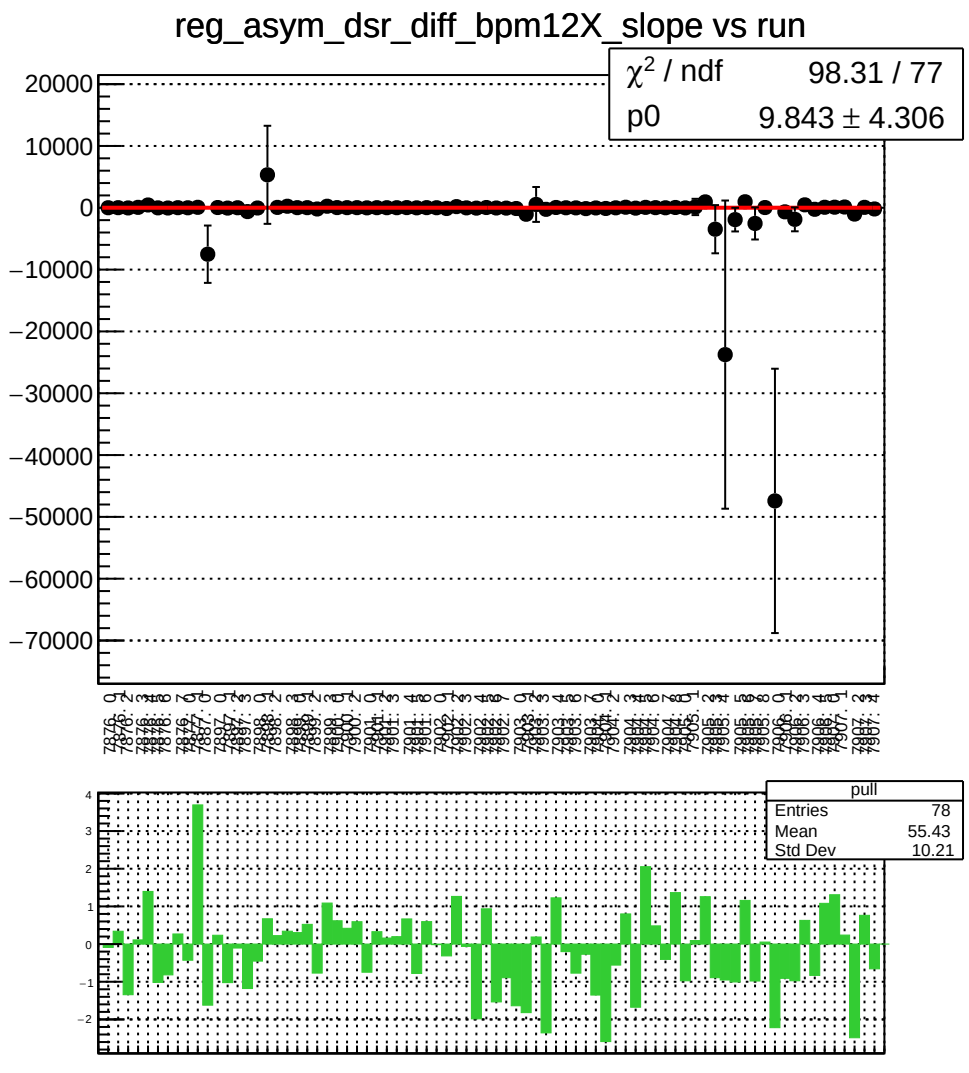

reg_asym_dsr_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 67.59 / 77
p0 −19.96 ± 95.48
pull
Entries 78
Mean −4130
Std Dev 4160

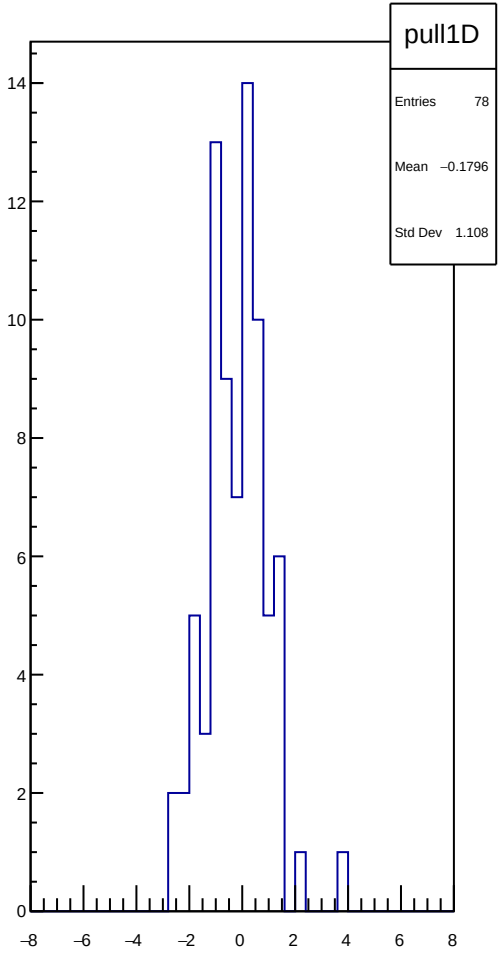

pull1D
Entries 78
Mean −0.0001539
Std Dev 0.9309

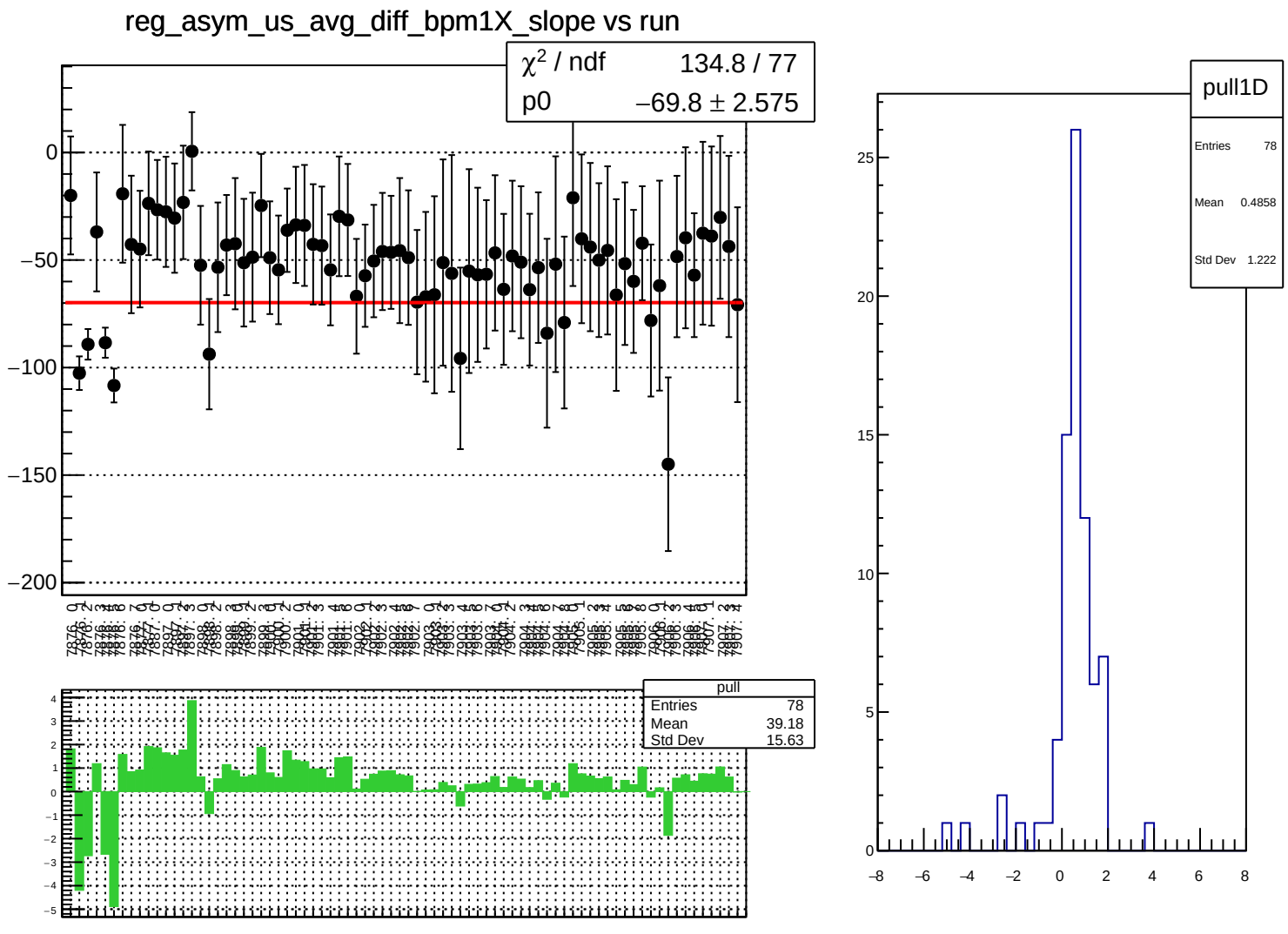

reg_asym_dsr_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 72.51 / 77
p0 −61.78 ± 67.5
800
600
400
200
0
−200
−400
−600
pull
Entries 78
Mean −0.1649
Std Dev 8.695
2
1
0
−1
−2

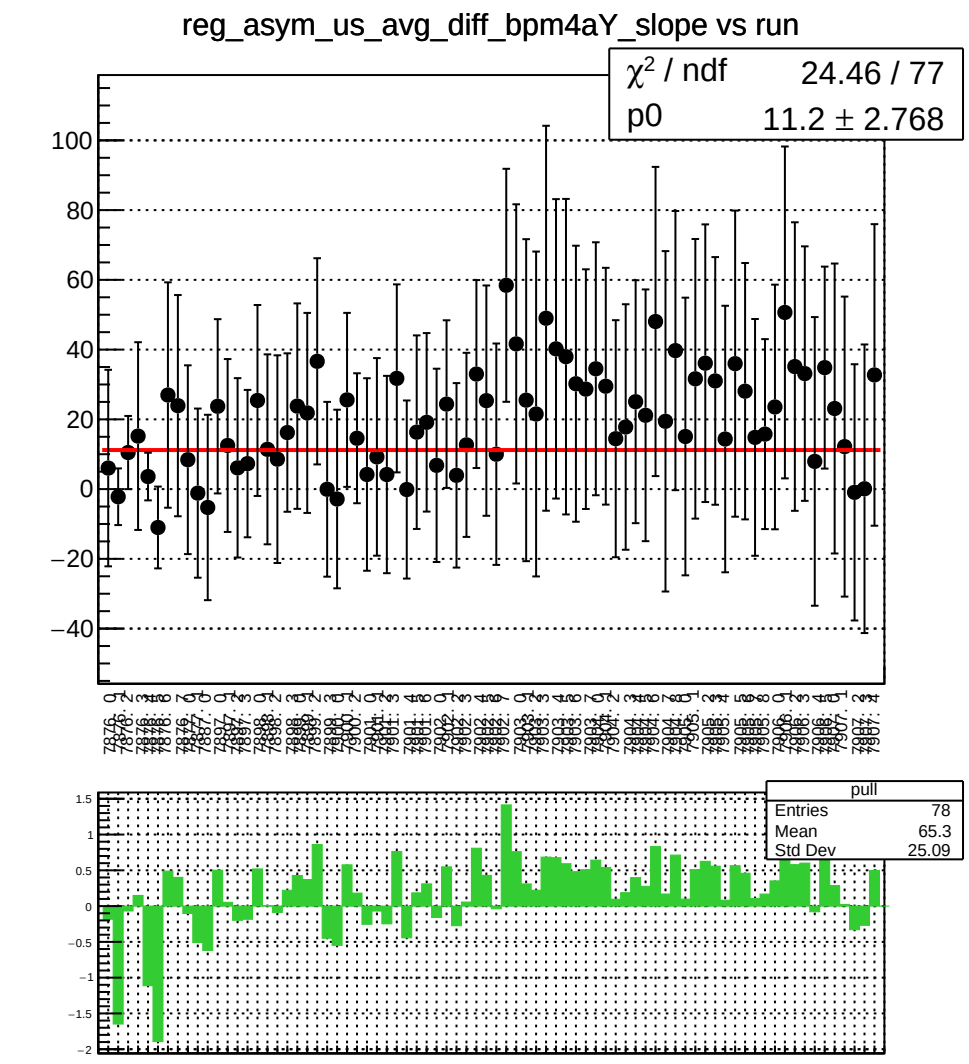

pull1D
Entries 78
Mean 0.01403
Std Dev 0.9641
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

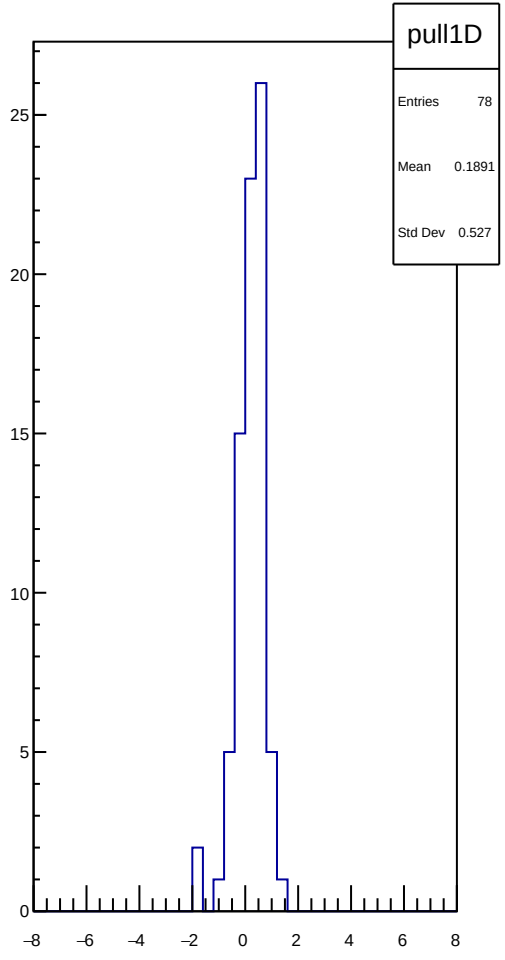

reg_asym_dsr_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 69.16 / 77
p0 1.028 ± 122.1
500
0
−500
−1000
−1500
pull
Entries 78
Mean 99.56
Std Dev 56.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 78
Mean −0.0125
Std Dev 0.9415
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

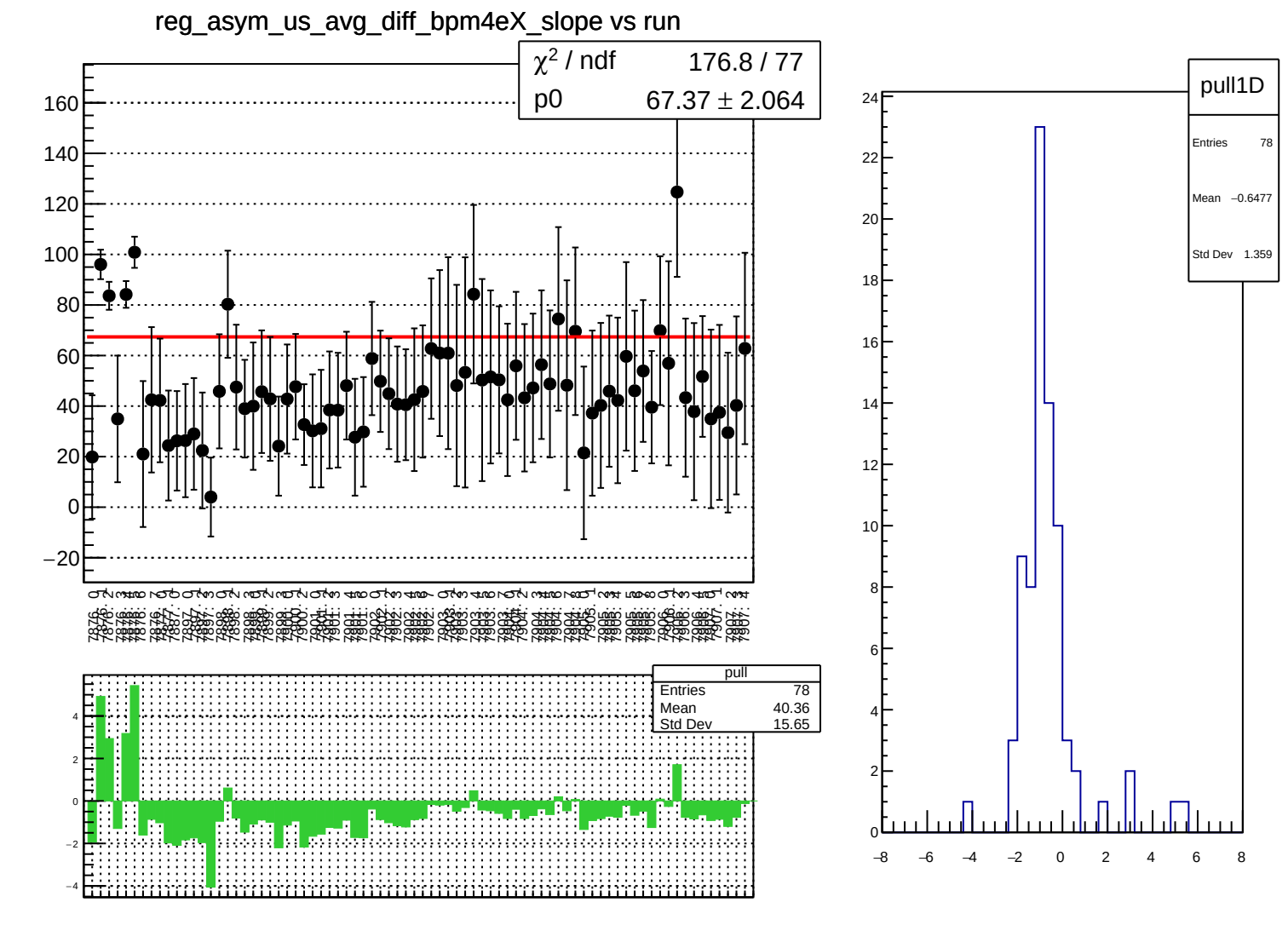

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 98.31 / 77
p0 9.843 ± 4.306
pull
Entries 78
Mean 55.43
Std Dev 10.21

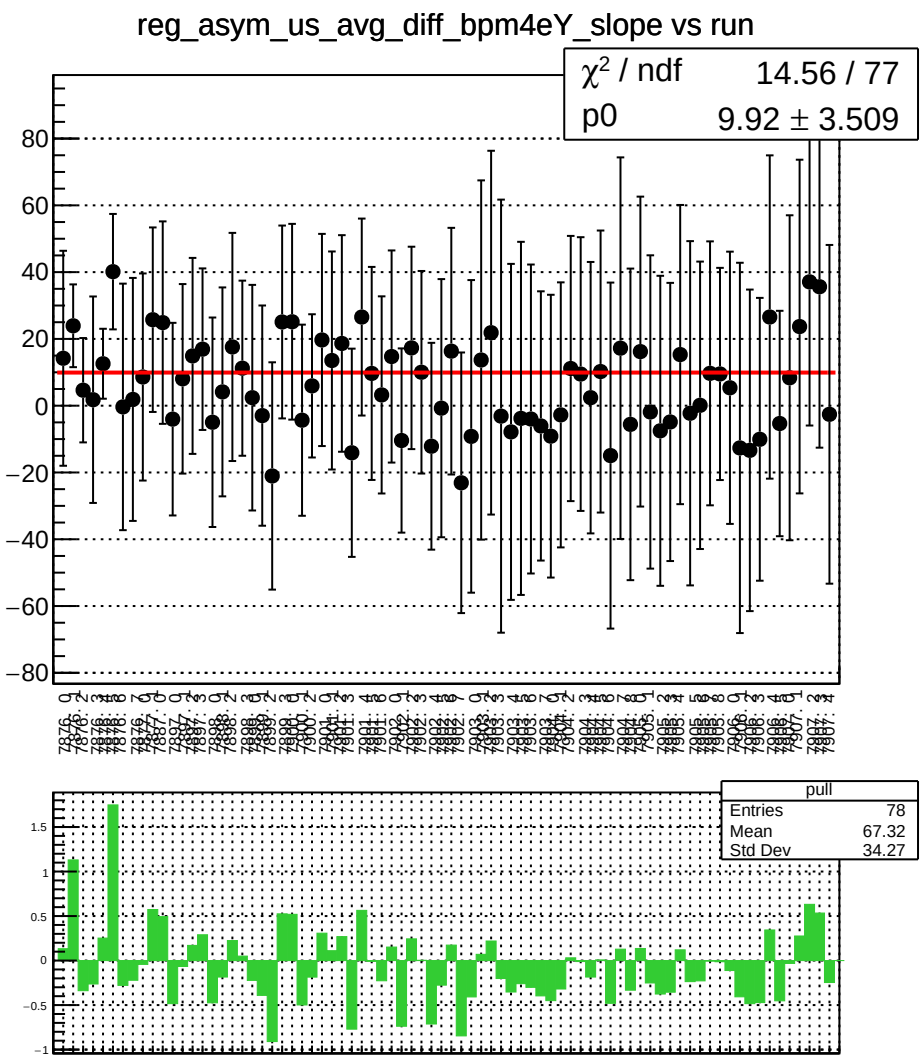

pull1D
Entries 78
Mean −0.1796
Std Dev 1.108

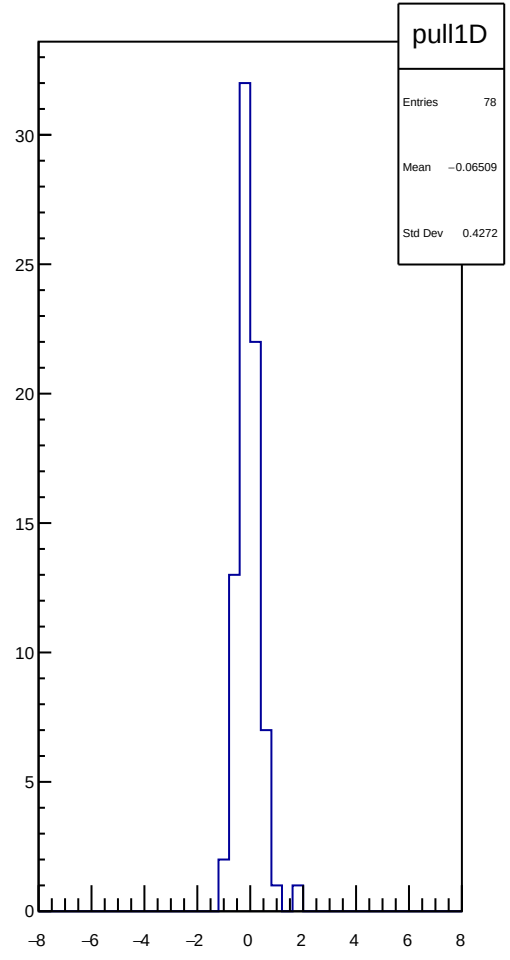

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 134.8 / 77
p0 −69.8 ± 2.575
0
−50
−100
−150
−200
pull
Entries 78
Mean 39.18
Std Dev 15.63
4
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 78
Mean 0.4858
Std Dev 1.222
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

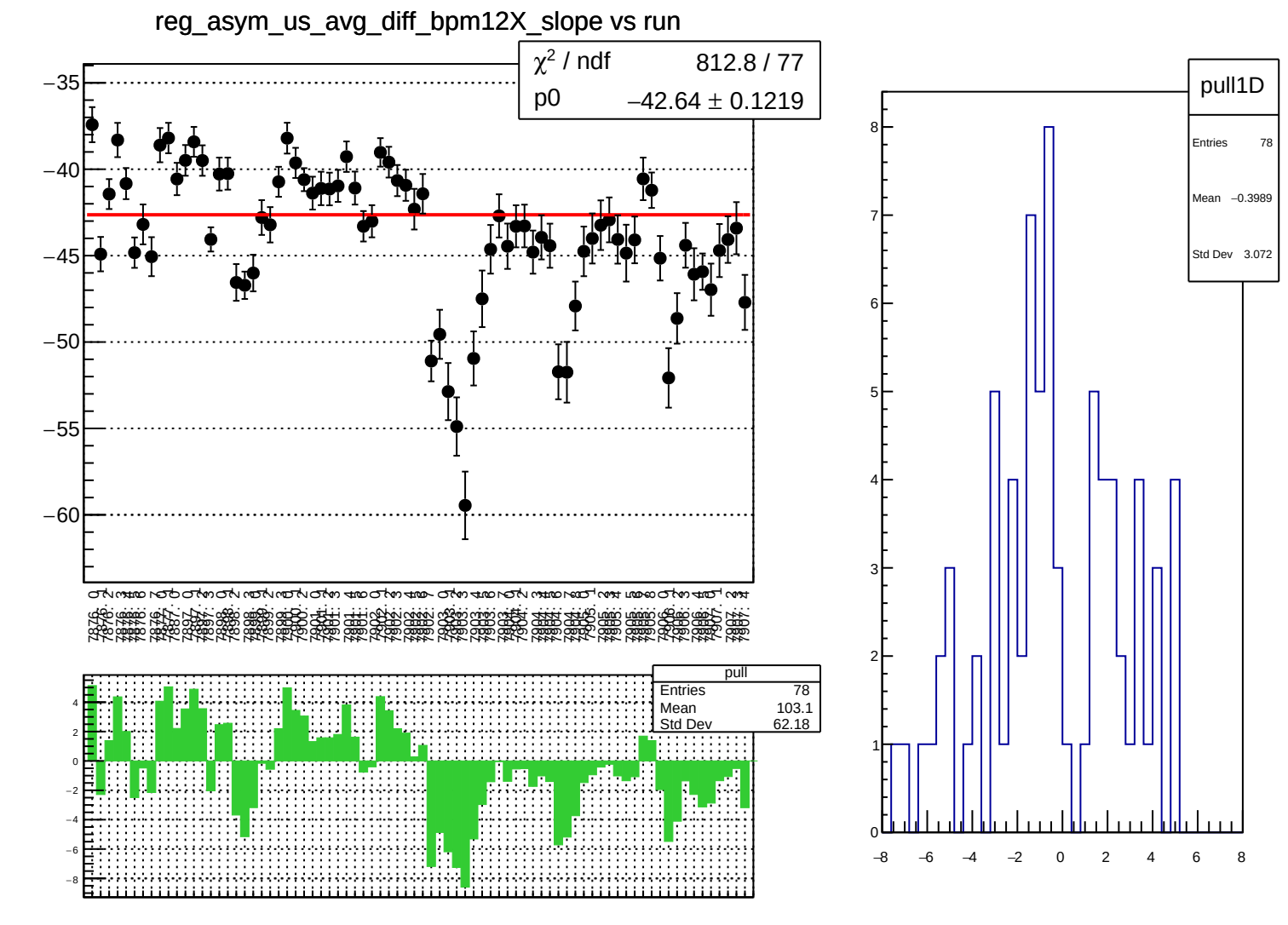

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.46 / 77
p0 11.2 ± 2.768
pull
Entries 78
Mean 65.3
Std Dev 25.09

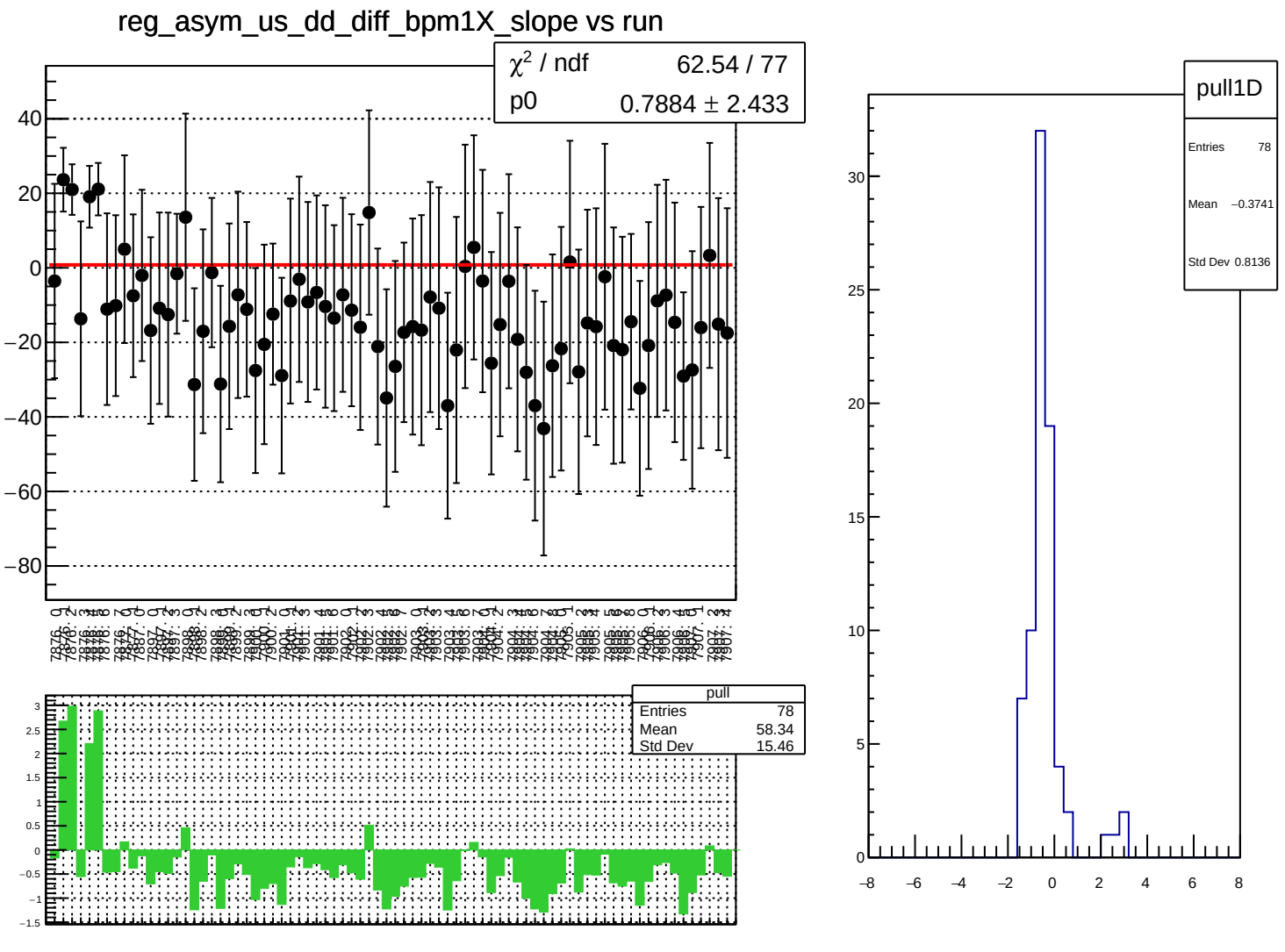

pull1D
Entries 78
Mean 0.1891
Std Dev 0.527

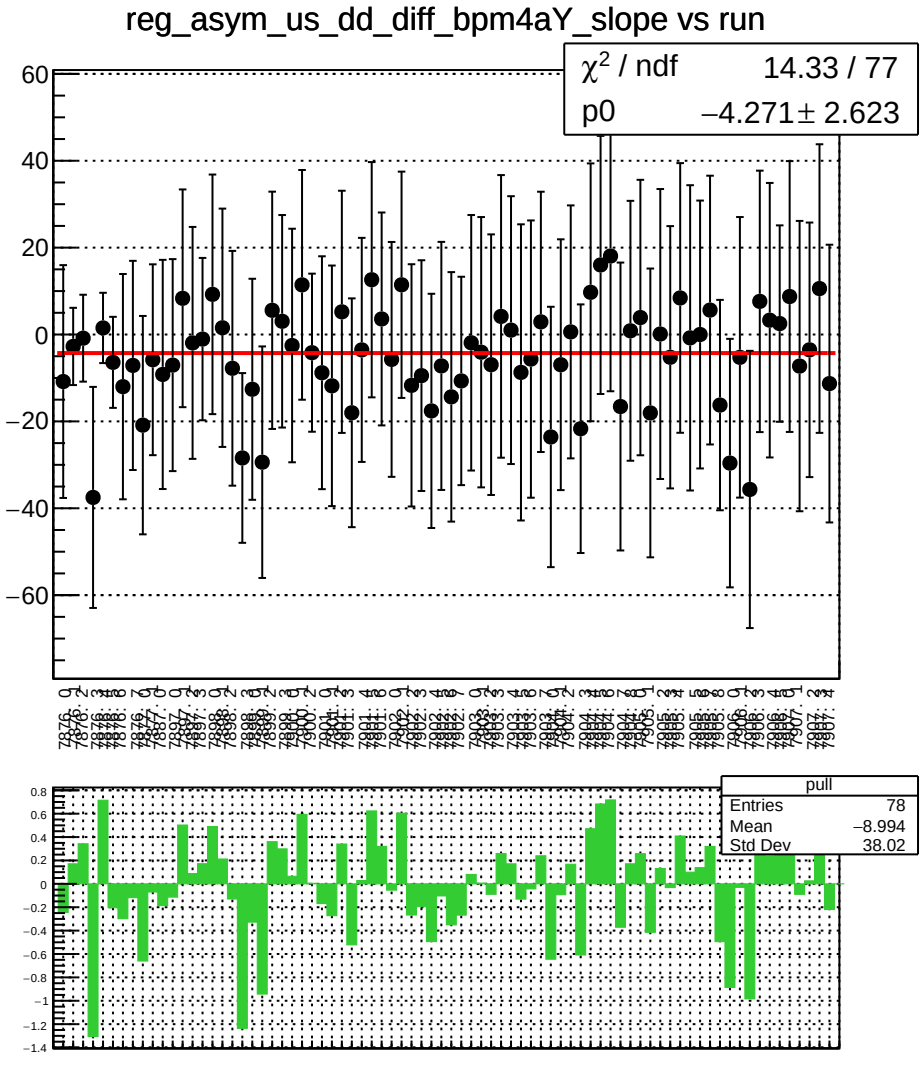

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 176.8 / 77
p0 67.37 ± 2.064
pull
Entries 78
Mean 40.36
Std Dev 15.65
pull1D
Entries 78
Mean −0.6477
Std Dev 1.359

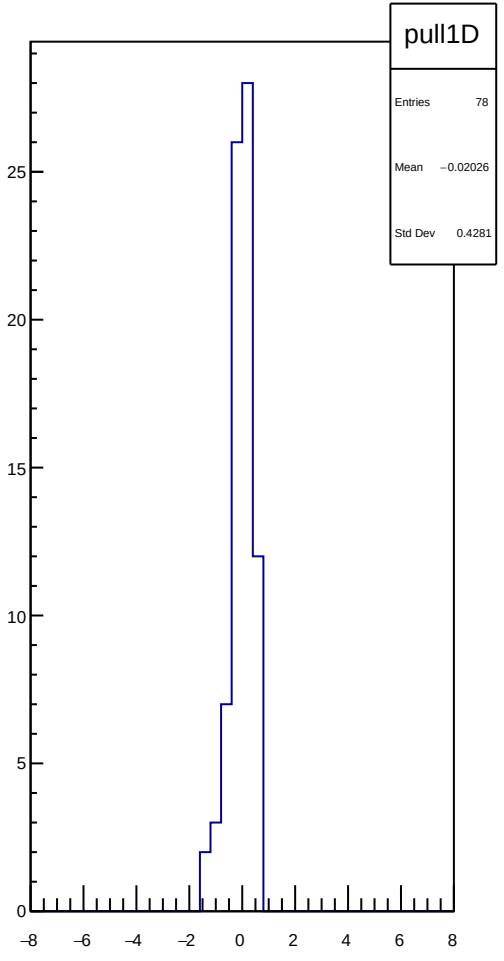

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.56 / 77
p0 9.92 ± 3.509
pull
Entries 78
Mean 67.32
Std Dev 34.27

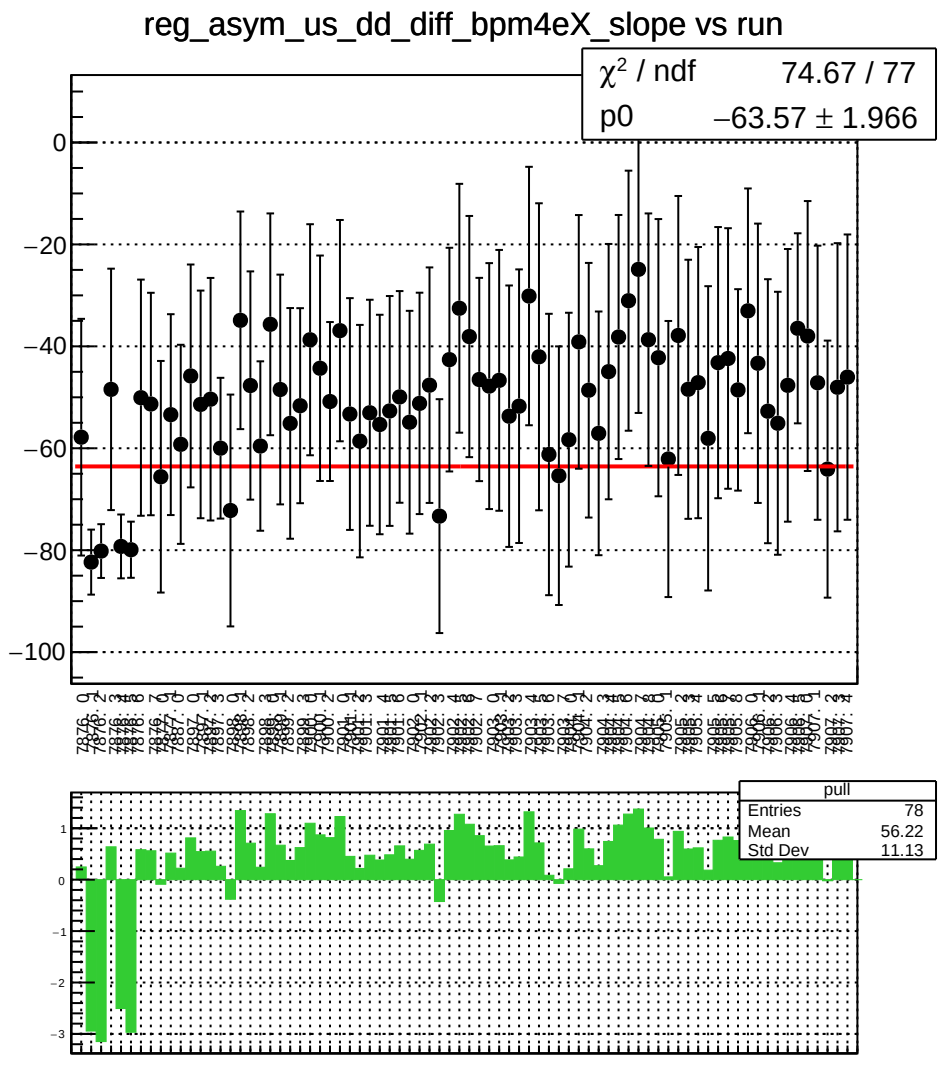

pull1D
Entries 78
Mean −0.06509
Std Dev 0.4272

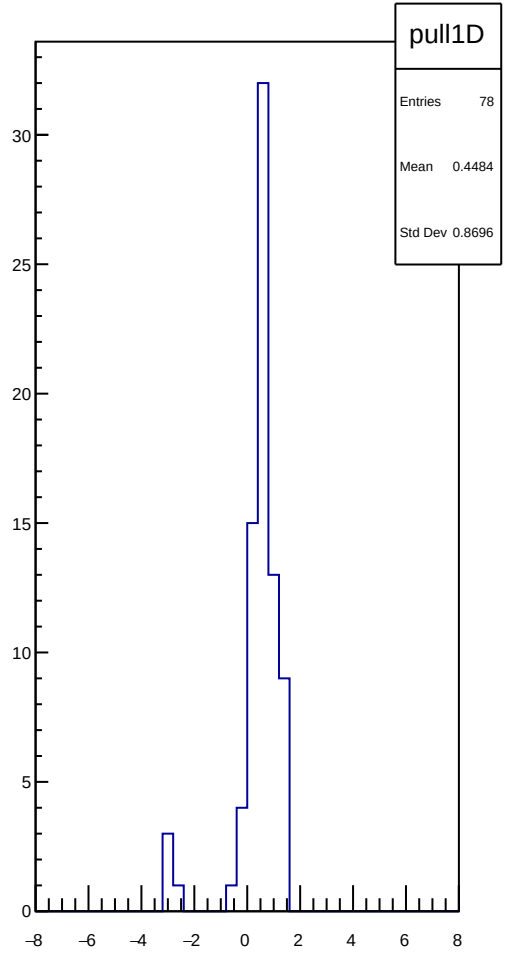

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 812.8 / 77
p0 −42.64 ± 0.1219
pull
Entries 78
Mean 103.1
Std Dev 62.18
pull1D
Entries 78
Mean −0.3989
Std Dev 3.072

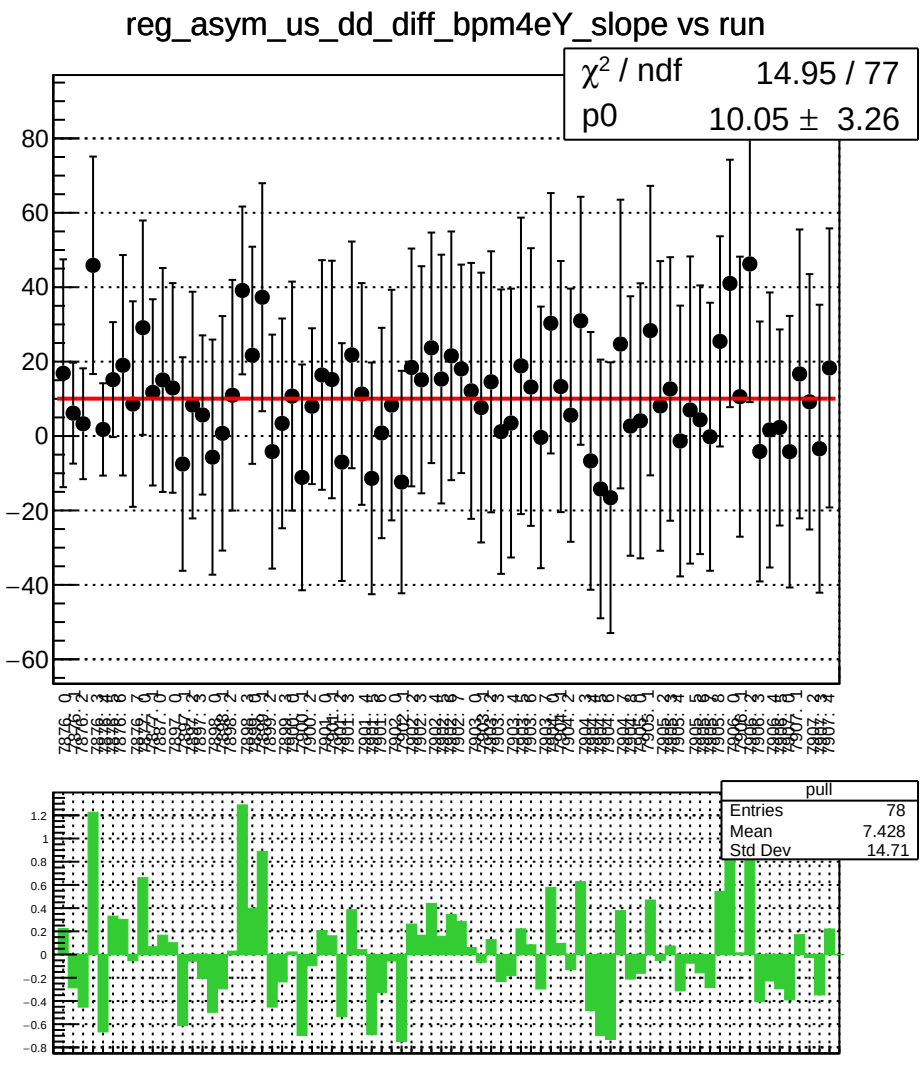

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 62.54 / 77
p0 0.7884 ± 2.433
pull
Entries 78
Mean 58.34
Std Dev 15.46
pull1D
Entries 78
Mean −0.3741
Std Dev 0.8136

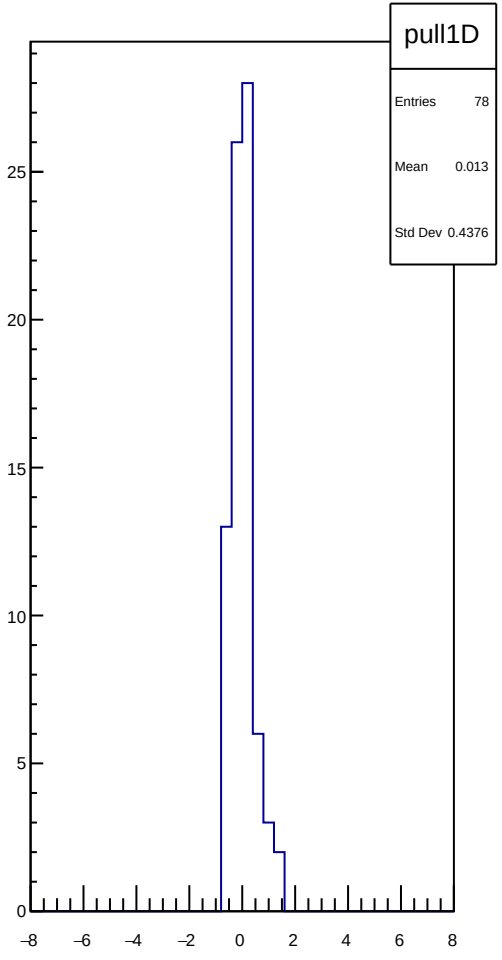

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.33 / 77
p0 −4.271 ± 2.623
pull
Entries 78
Mean −8.994
Std Dev 38.02

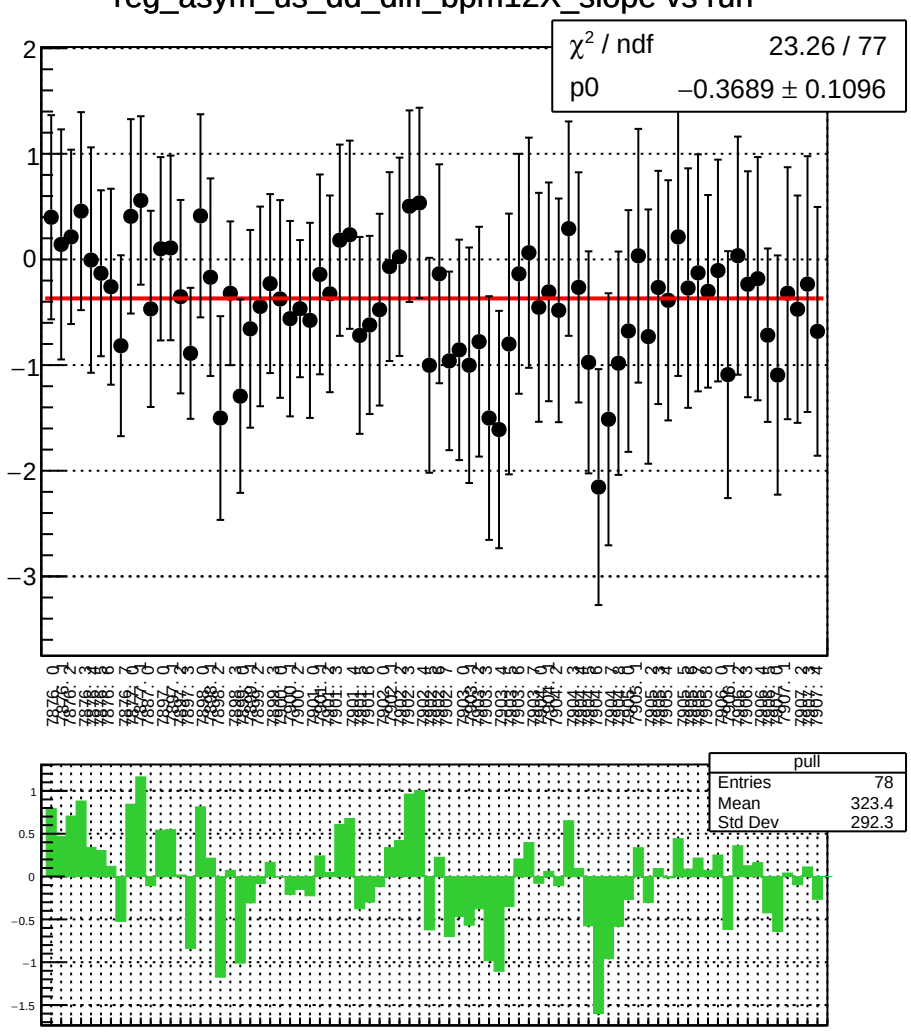

pull1D
Entries 78
Mean −0.02026
Std Dev 0.4281

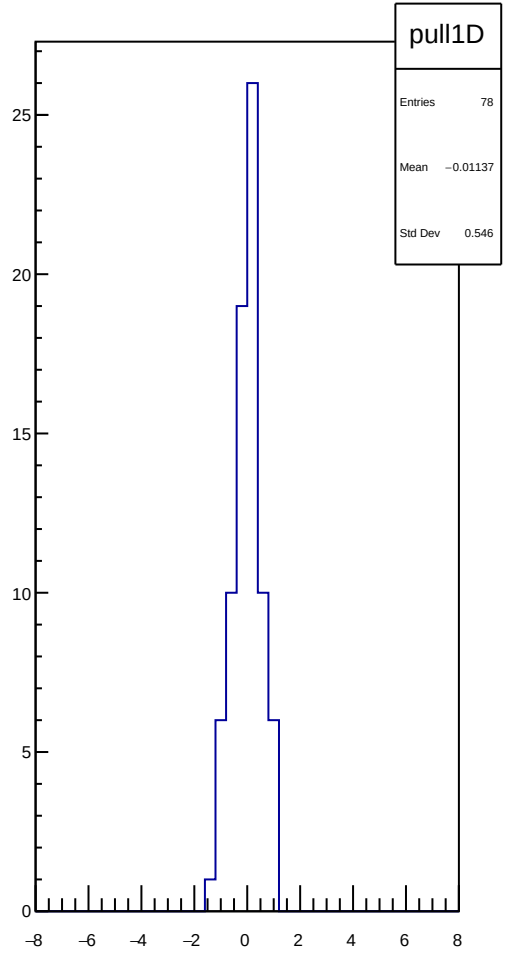

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.67 / 77
p0 −63.57 ± 1.966
pull
Entries 78
Mean 56.22
Std Dev 11.13

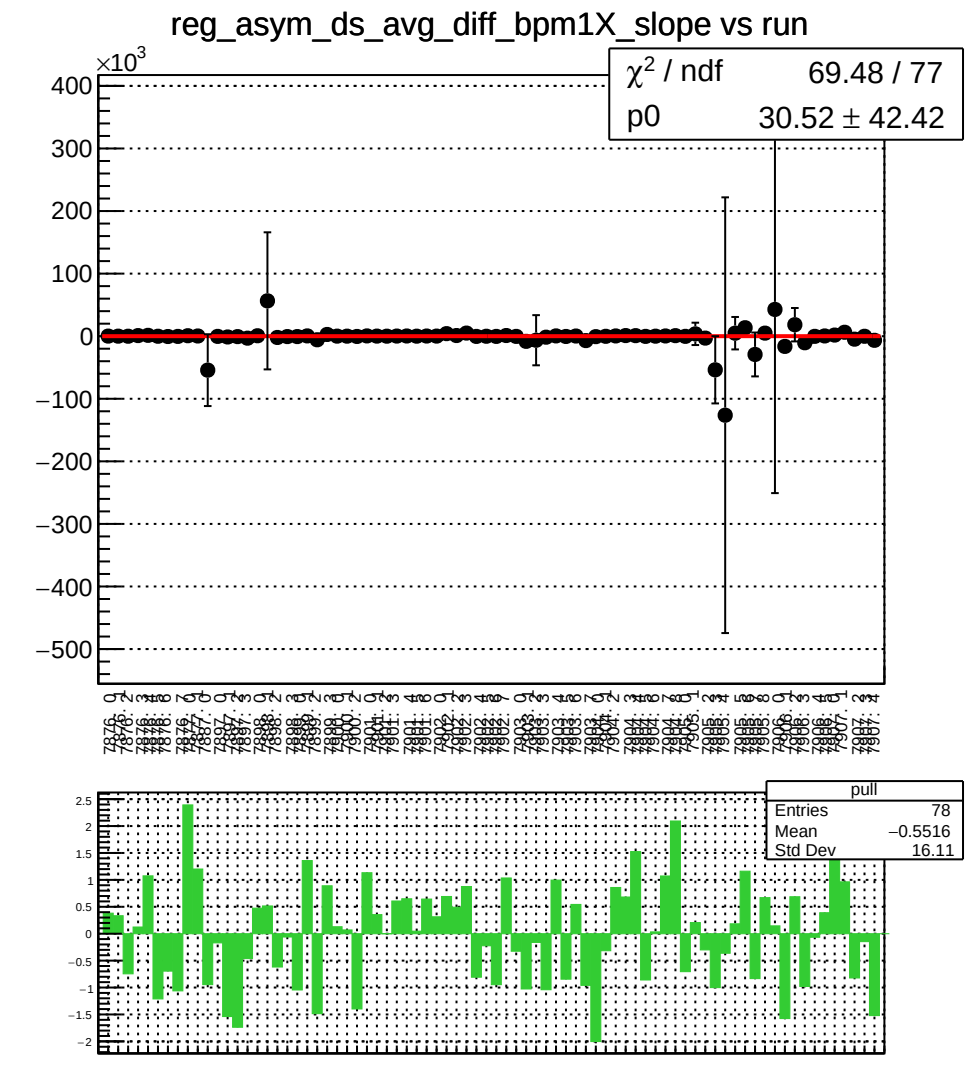

pull1D
Entries 78
Mean 0.4484
Std Dev 0.8696

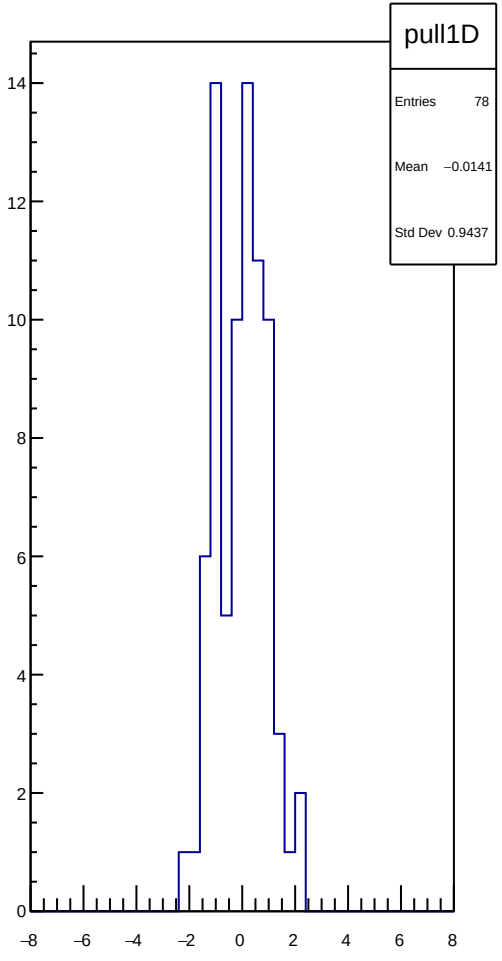

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.95 / 77
p0 10.05 ± 3.26
pull
Entries 78
Mean 7.428
Std Dev 14.71

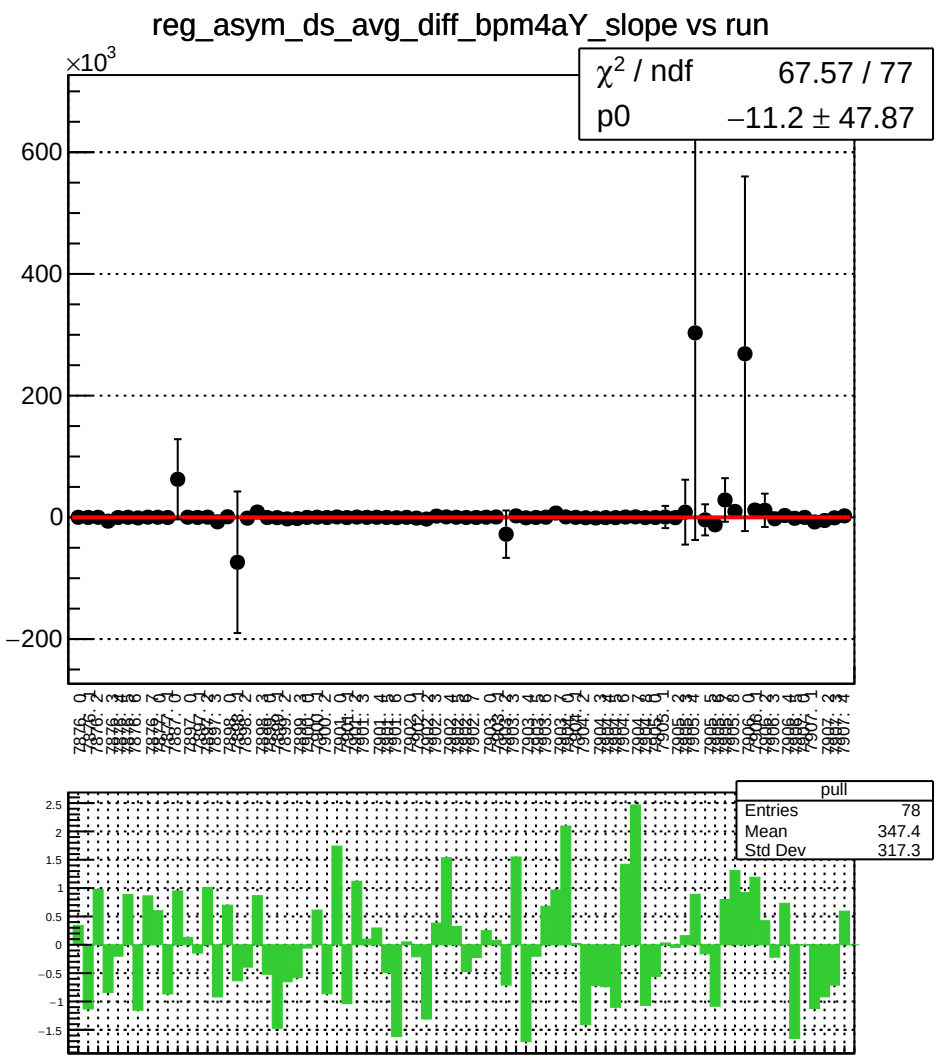

pull1D
Entries 78
Mean 0.013
Std Dev 0.4376

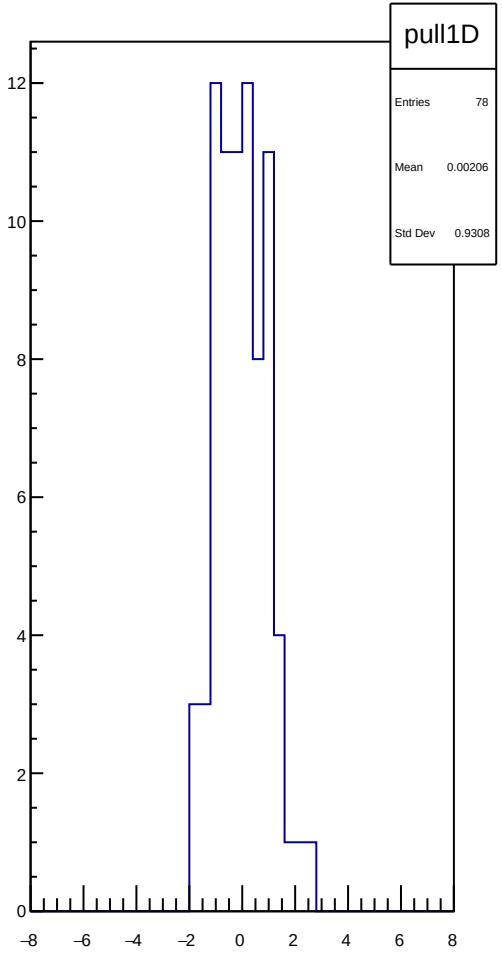

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 23.26 / 77
p0 −0.3689 ± 0.1096
pull
Entries 78
Mean 323.4
Std Dev 292.3

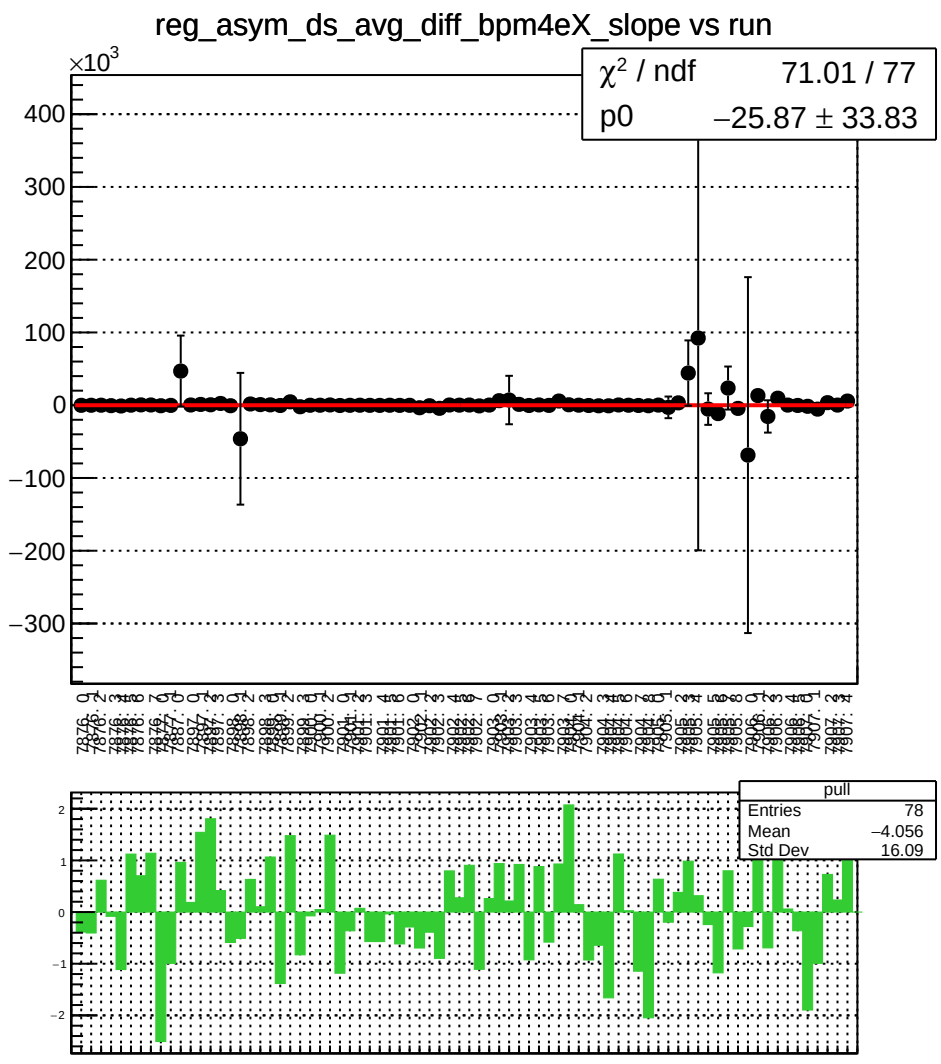

pull1D
Entries 78
Mean −0.01137
Std Dev 0.546

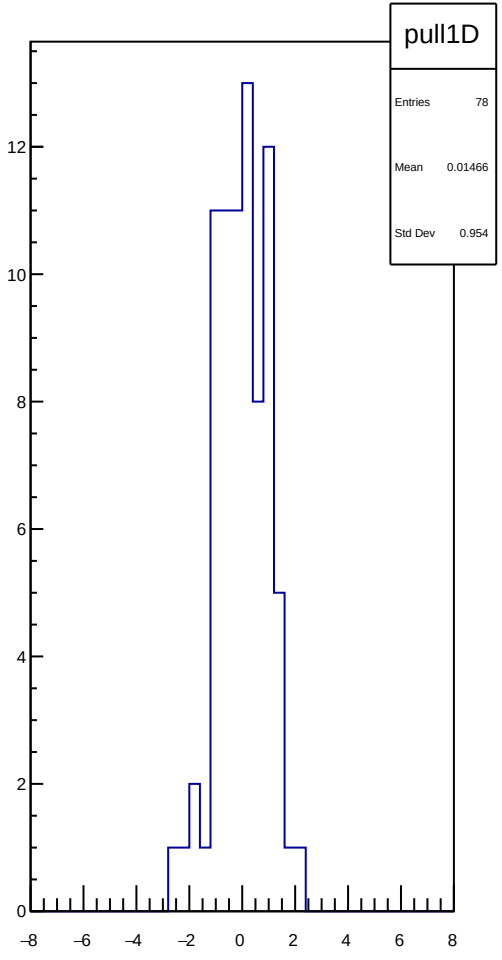

reg_asym_ds_avg_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 69.48 / 77
p0 30.52 ± 42.42
pull
Entries 78
Mean −0.5516
Std Dev 16.11

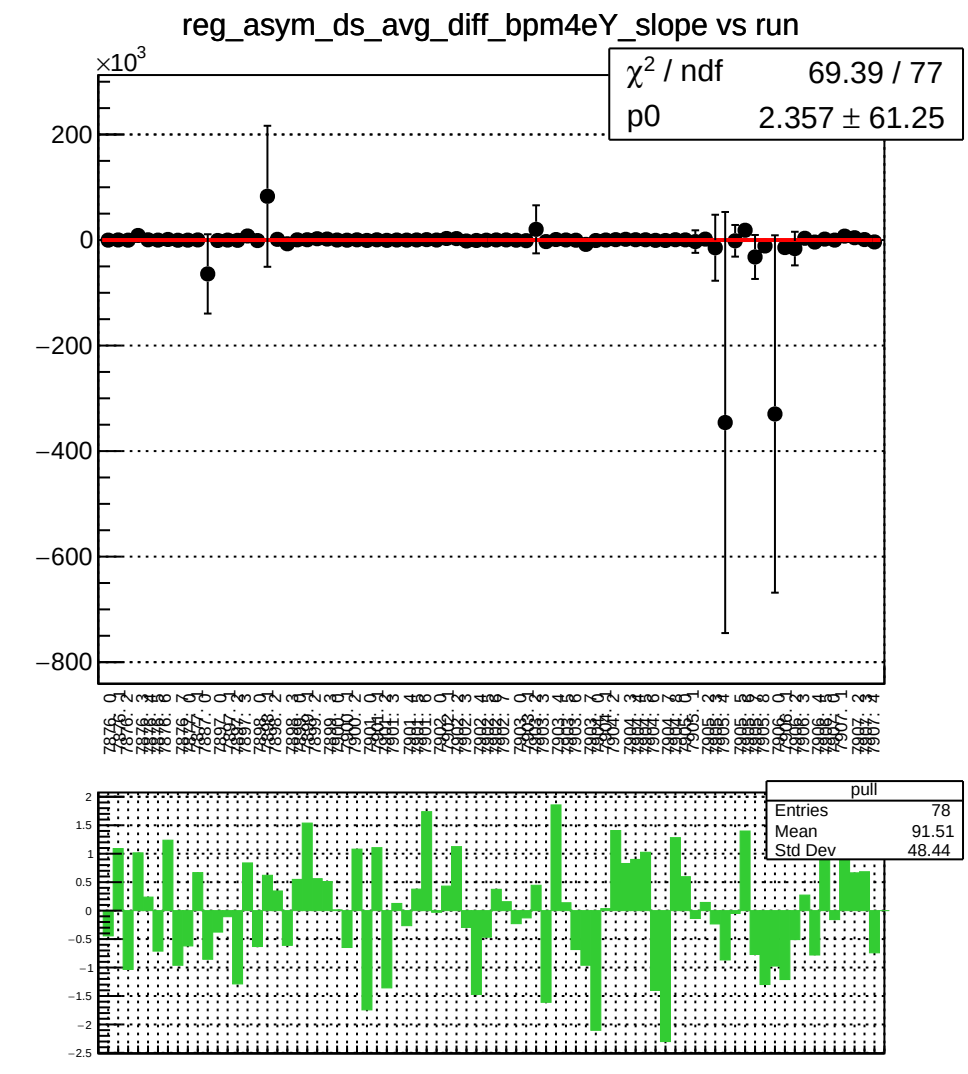

pull1D
Entries 78
Mean −0.0141
Std Dev 0.9437

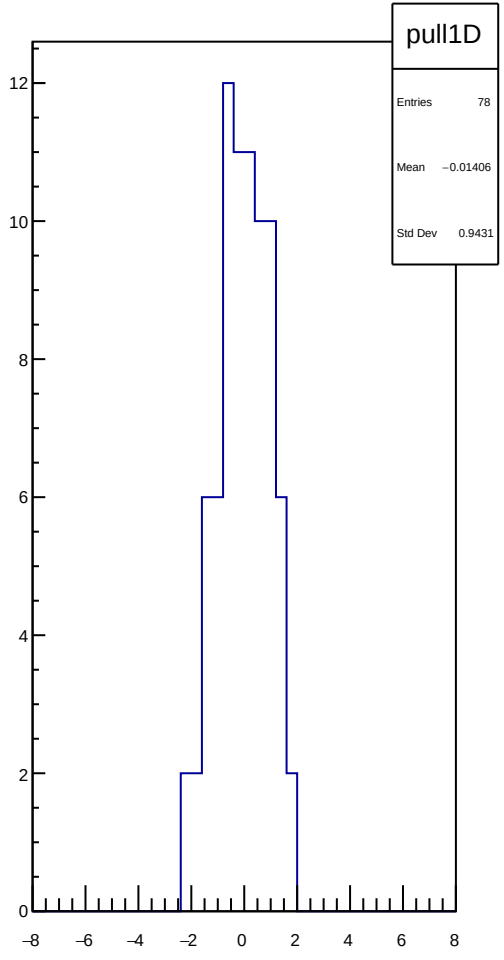

reg_asym_ds_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 67.57 / 77
p0 −11.2 ± 47.87
600
400
200
0
−200
pull
Entries 78
Mean 347.4
Std Dev 317.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

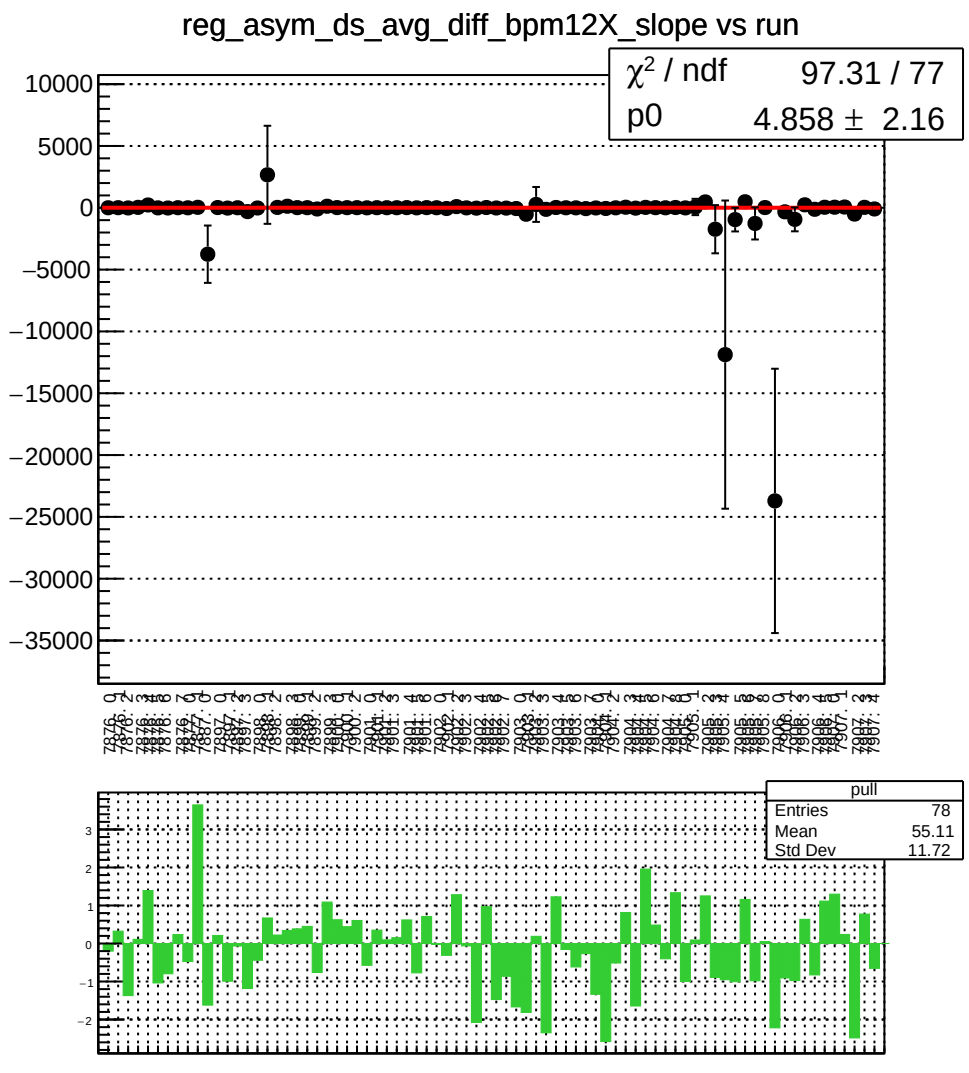

pull1D
Entries 78
Mean 0.00206
Std Dev 0.9308
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

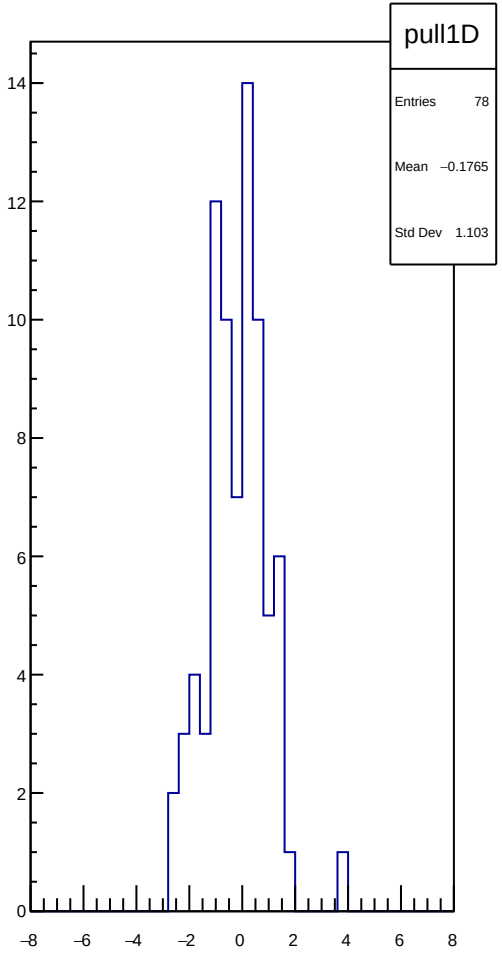

reg_asym_ds_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 71.01 / 77
p0 −25.87 ± 33.83
pull
Entries 78
Mean −4.056
Std Dev 16.09

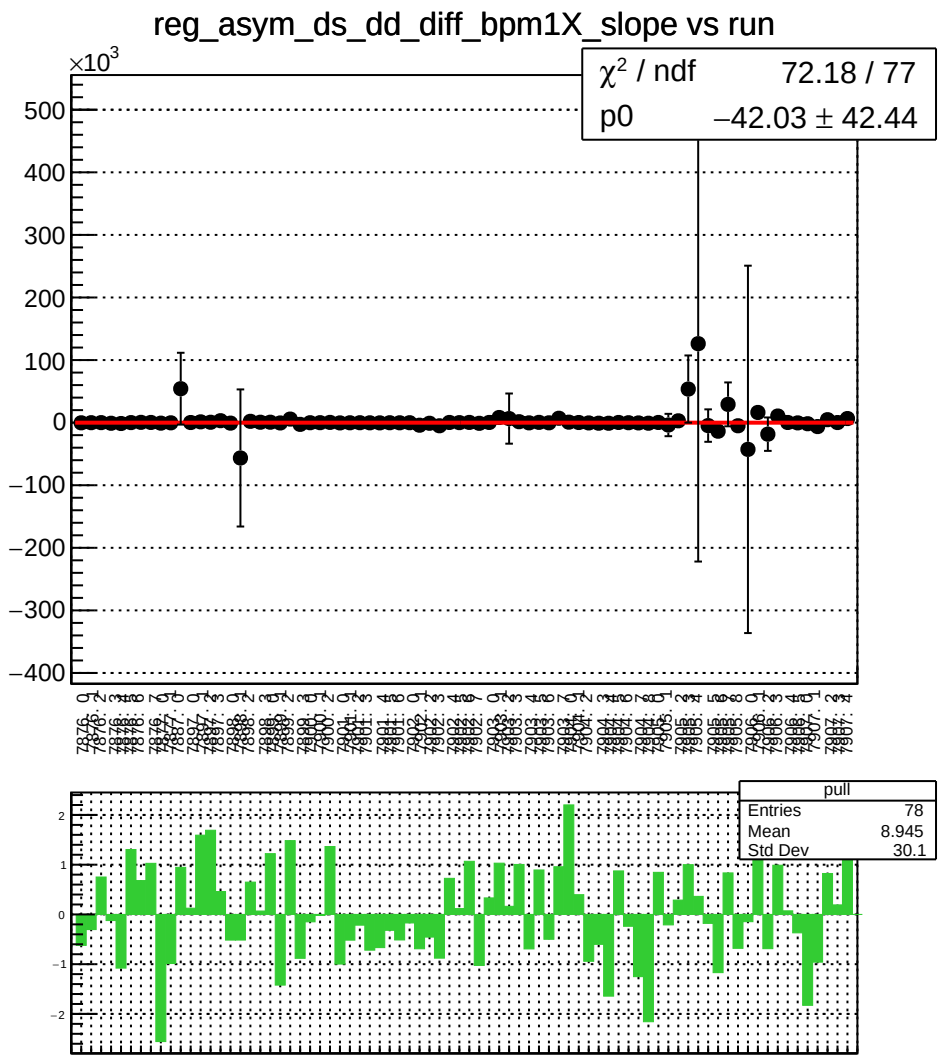

pull1D
Entries 78
Mean 0.01466
Std Dev 0.954

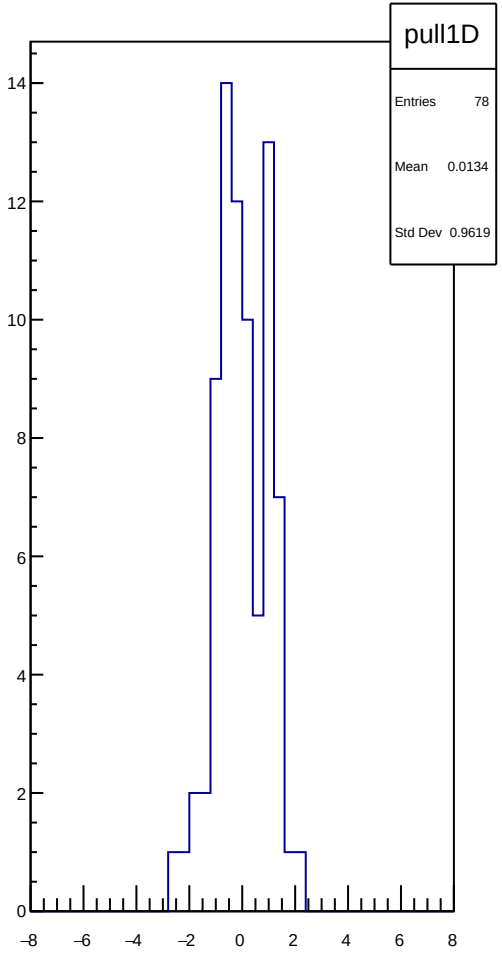

reg_asym_ds_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 69.39 / 77
p0 2.357 ± 61.25
200
0
−200
−400
−600
−800
pull
Entries 78
Mean 91.51
Std Dev 48.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

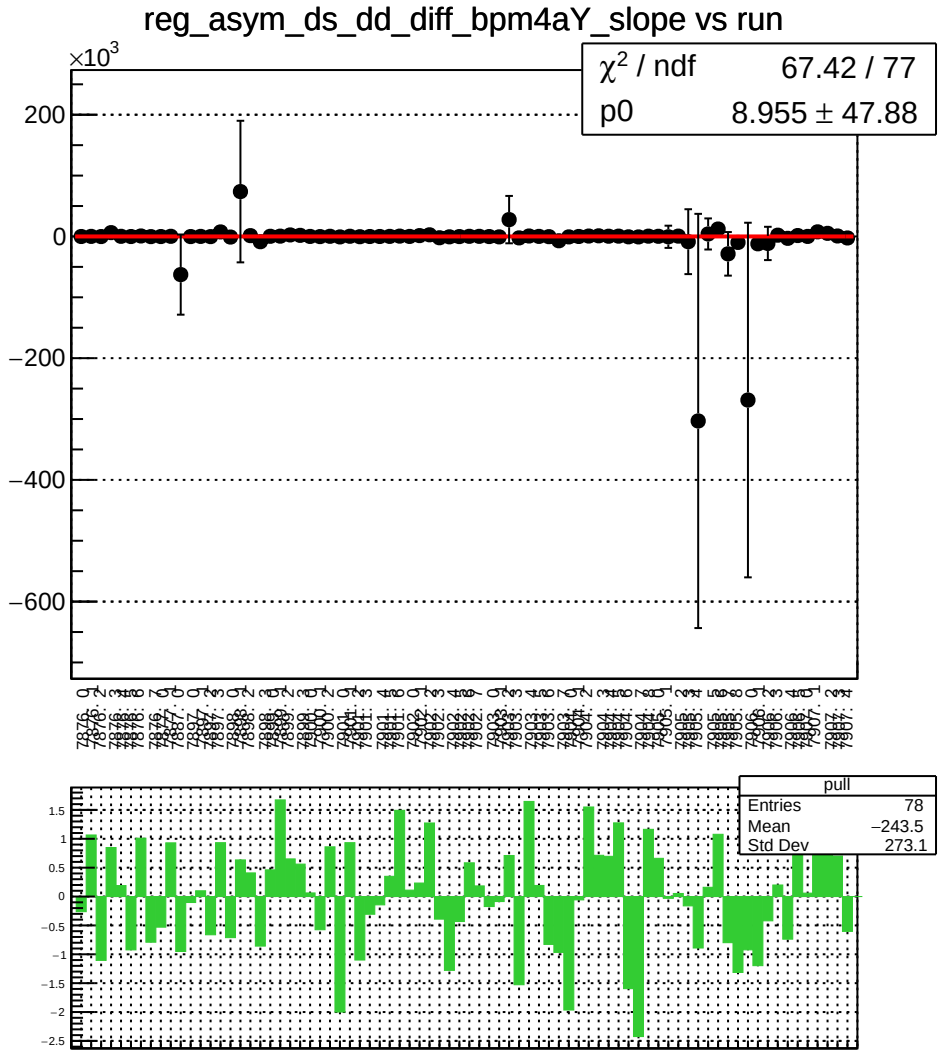

pull1D
Entries 78
Mean −0.01406
Std Dev 0.9431
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

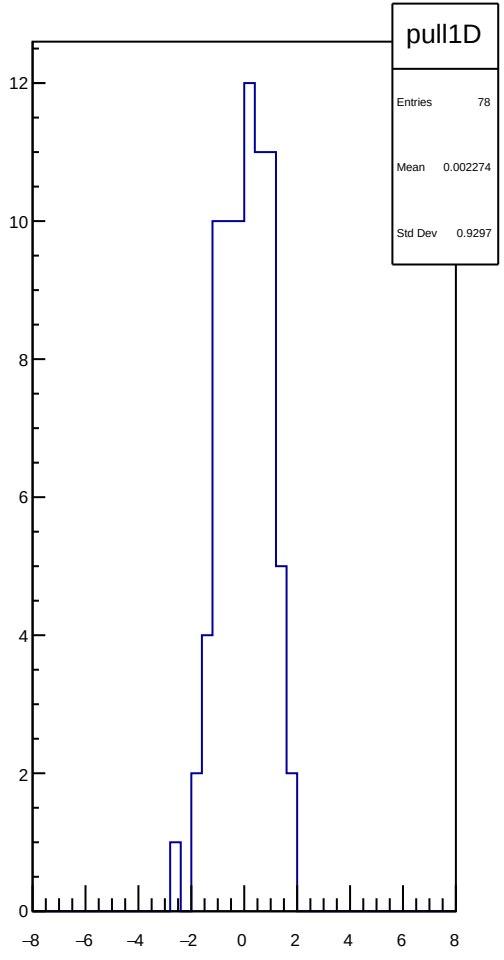

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 97.31 / 77
p0 4.858 ± 2.16
pull
Entries 78
Mean 55.11
Std Dev 11.72

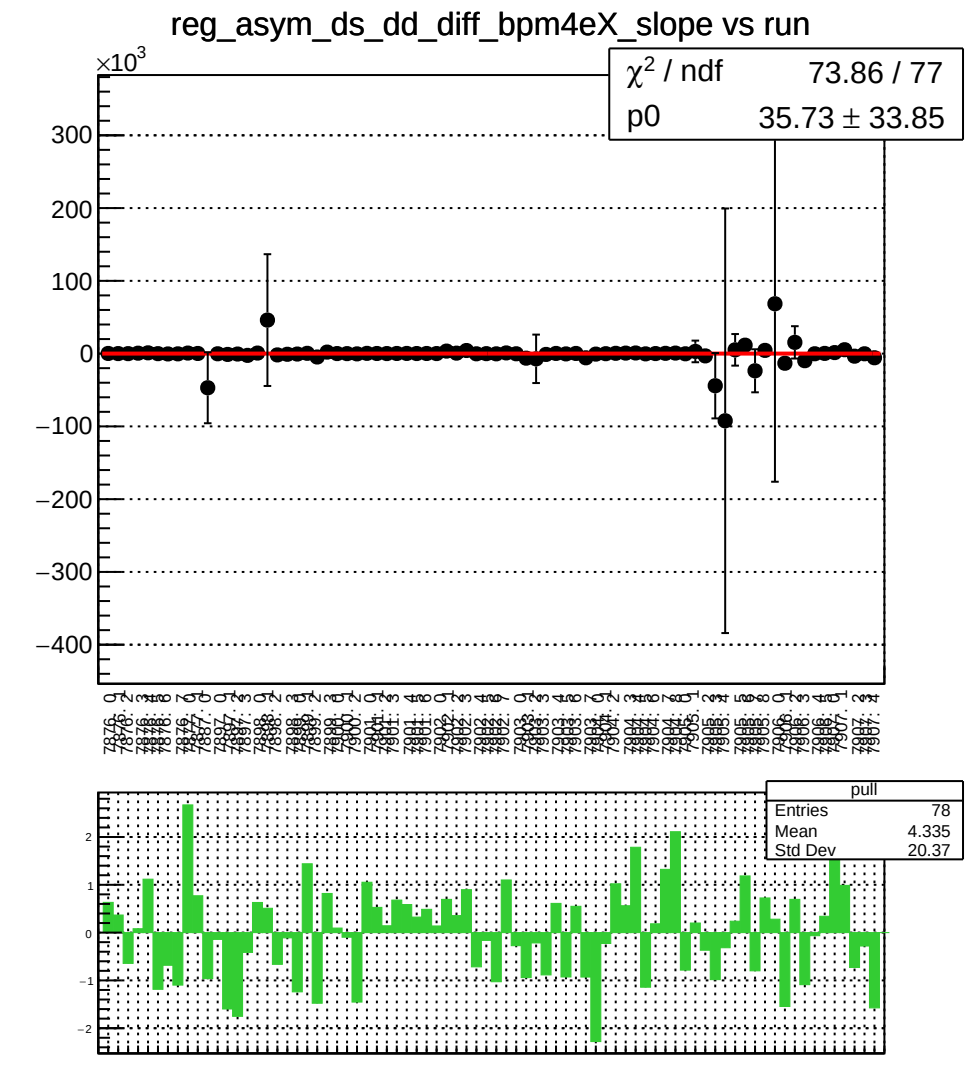

pull1D
Entries 78
Mean −0.1765
Std Dev 1.103

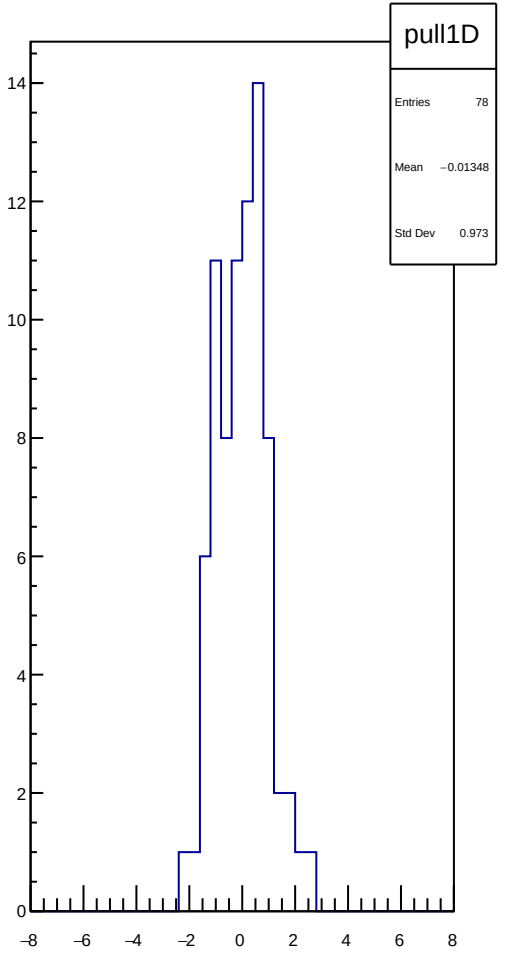

reg_asym_ds_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 72.18 / 77
p0 −42.03 ± 42.44
pull
Entries 78
Mean 8.945
Std Dev 30.1

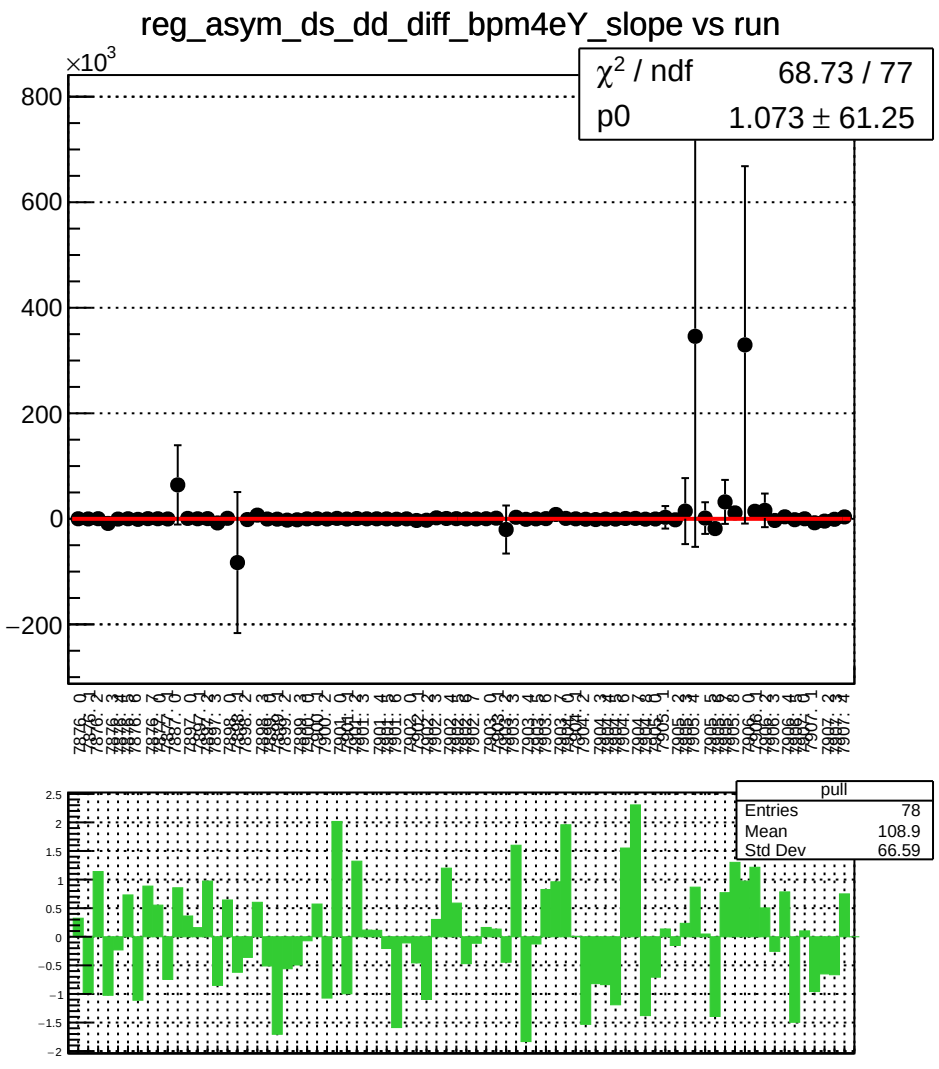

pull1D
Entries 78
Mean 0.0134
Std Dev 0.9619

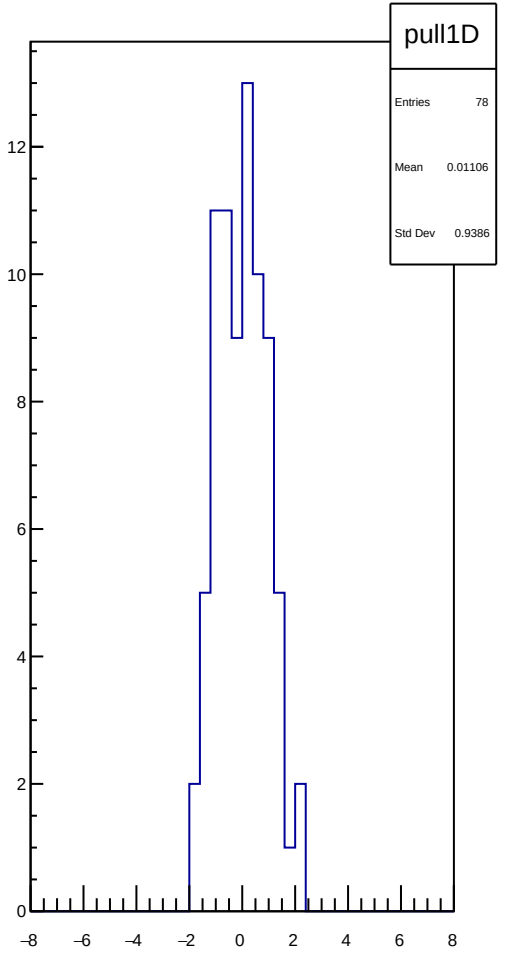

reg_asym_ds_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 67.42 / 77
p0 8.955 ± 47.88
200
0
−200
−400
−600
pull
Entries 78
Mean −243.5
Std Dev 273.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

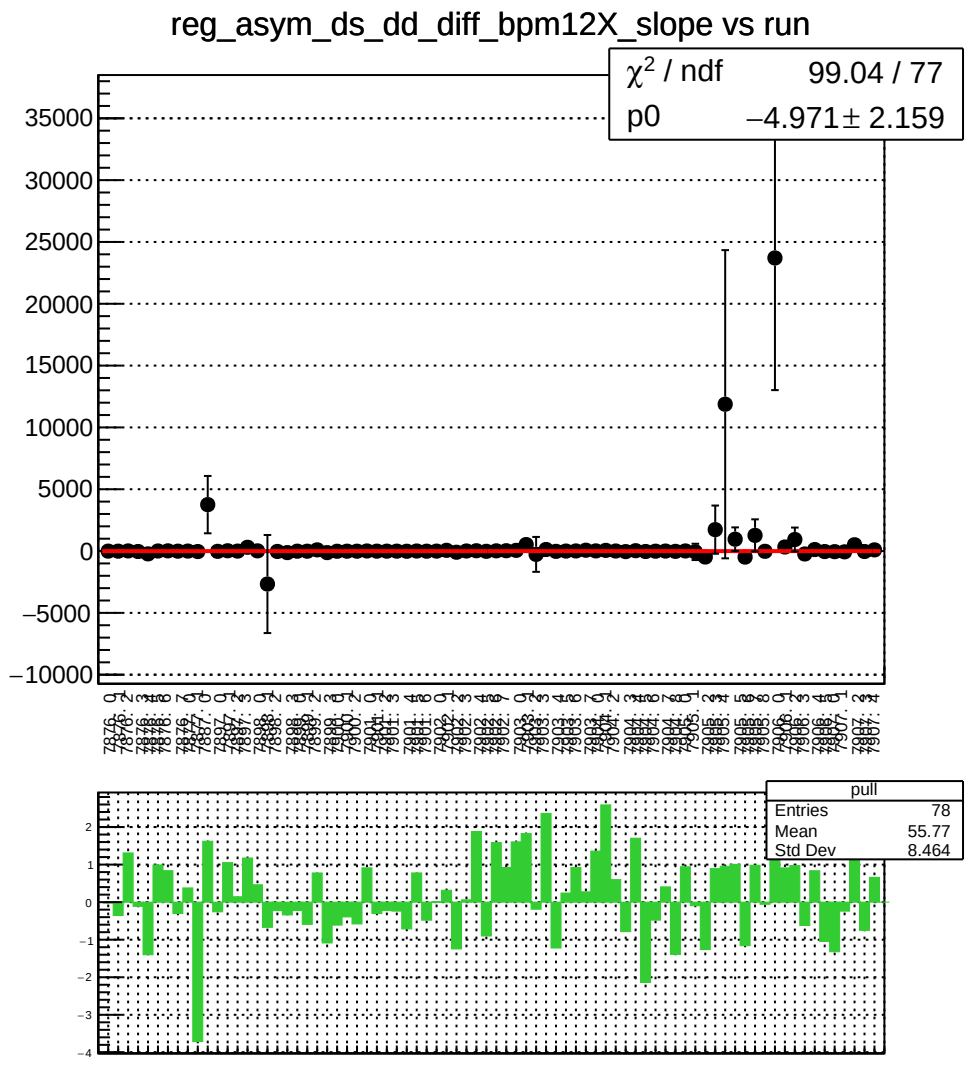

pull1D
Entries 78
Mean 0.002274
Std Dev 0.9297
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

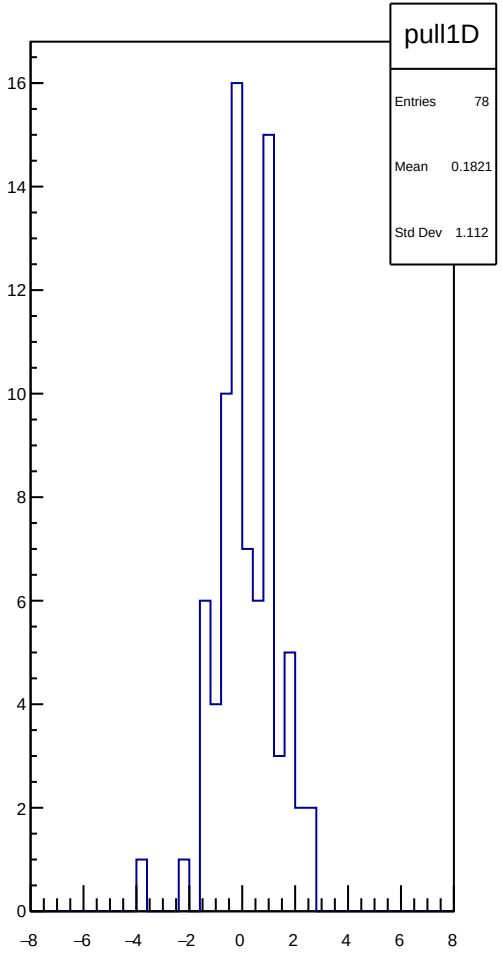

reg_asym_ds_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 73.86 / 77
p0 35.73 ± 33.85
300
200
100
0
−100
−200
−300
−400
pull
Entries 78
Mean 4.335
Std Dev 20.37
2
1
0
−1
−2

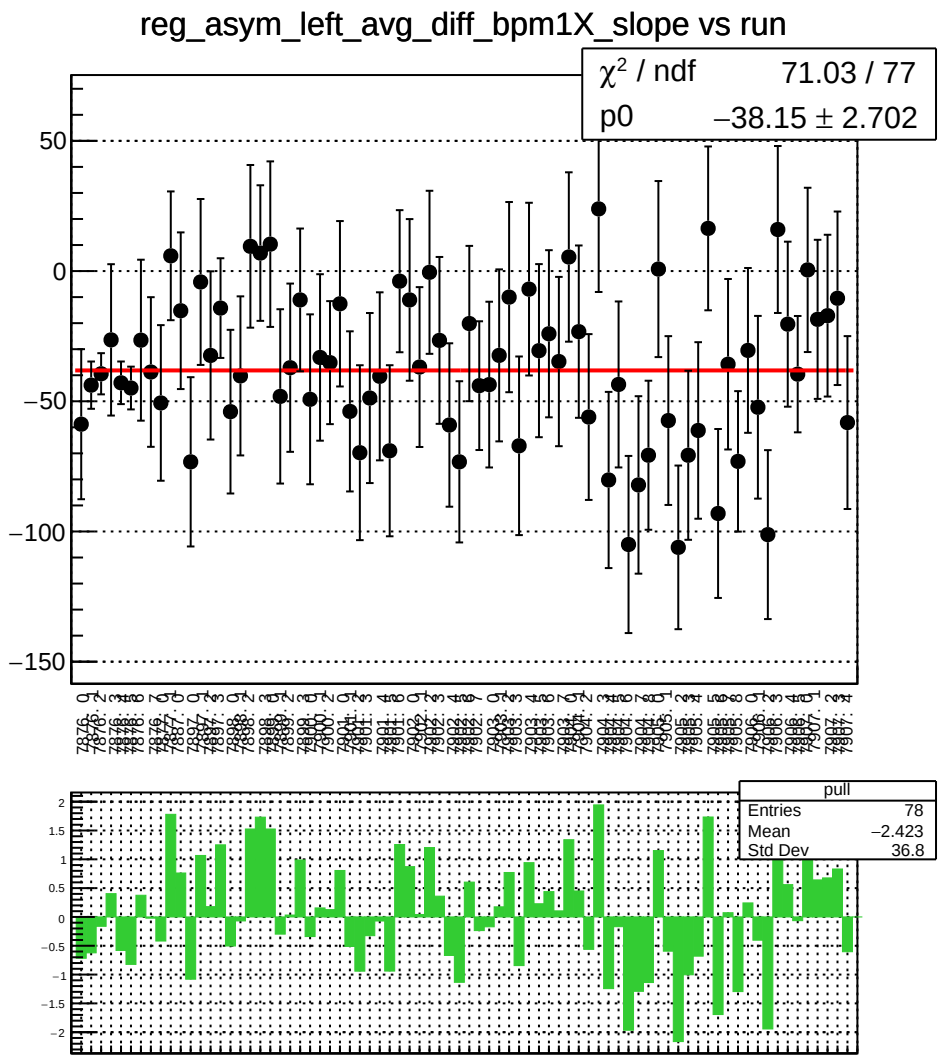

pull1D
Entries 78
Mean −0.01348
Std Dev 0.973
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

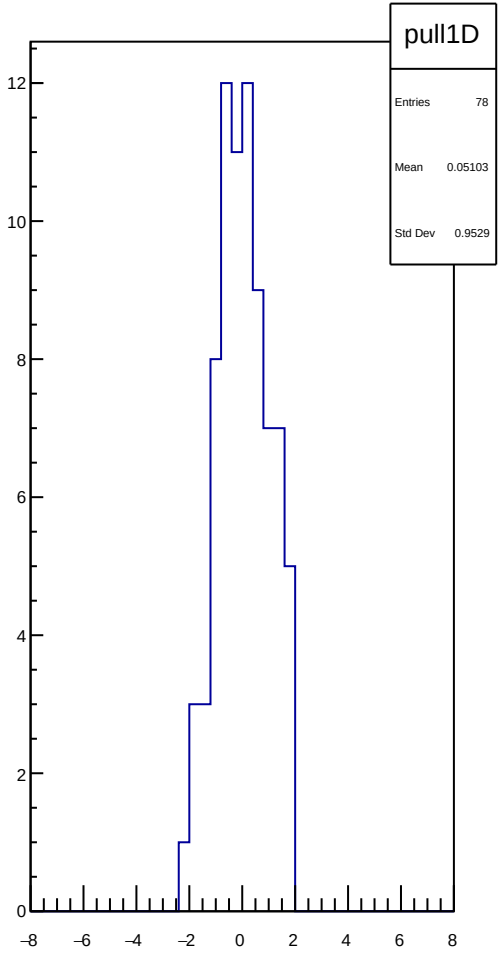

reg_asym_ds_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 68.73 / 77
p0 1.073 ± 61.25
800
600
400
200
0
−200
pull
Entries 78
Mean 108.9
Std Dev 66.59
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

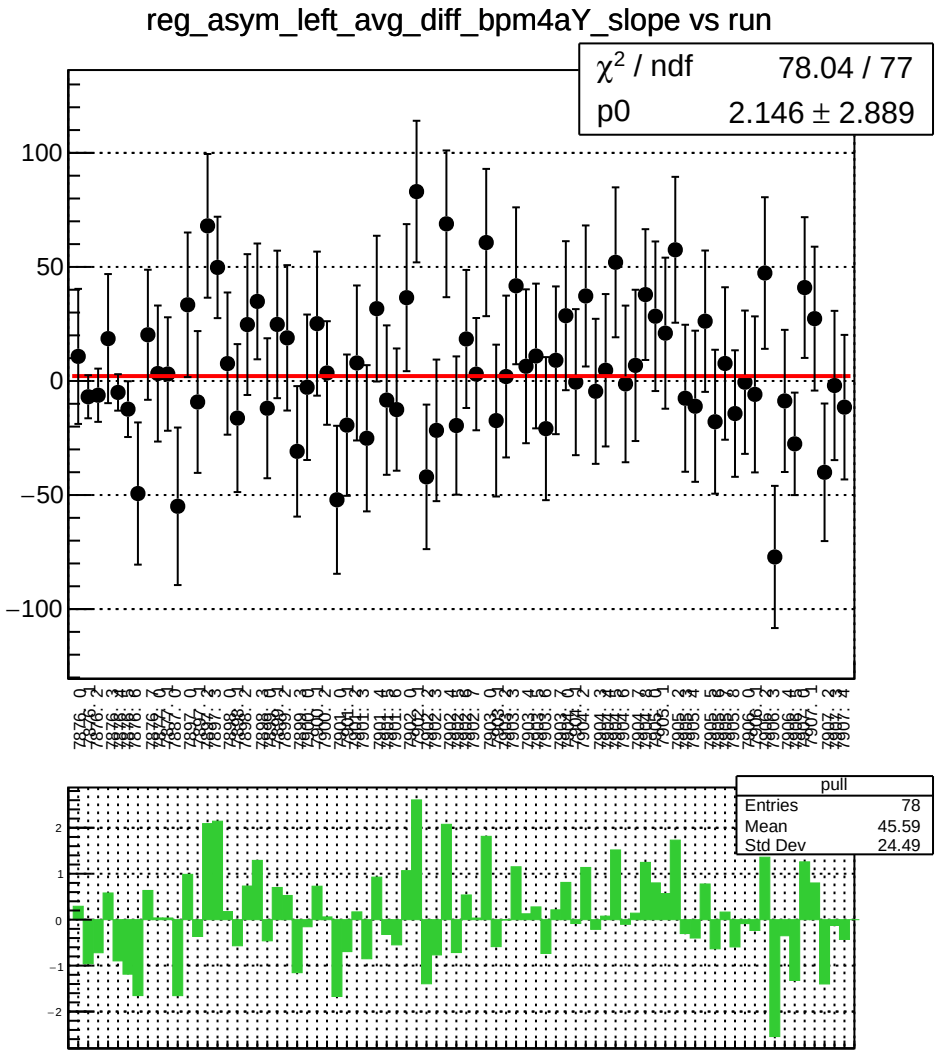

pull1D
Entries 78
Mean 0.01106
Std Dev 0.9386
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

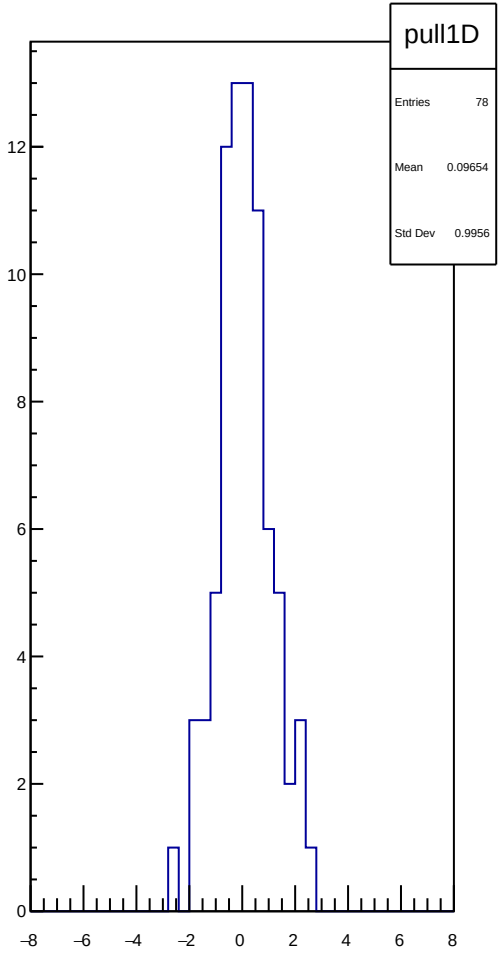

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 99.04 / 77
p0 −4.971 ± 2.159
pull
Entries 78
Mean 55.77
Std Dev 8.464

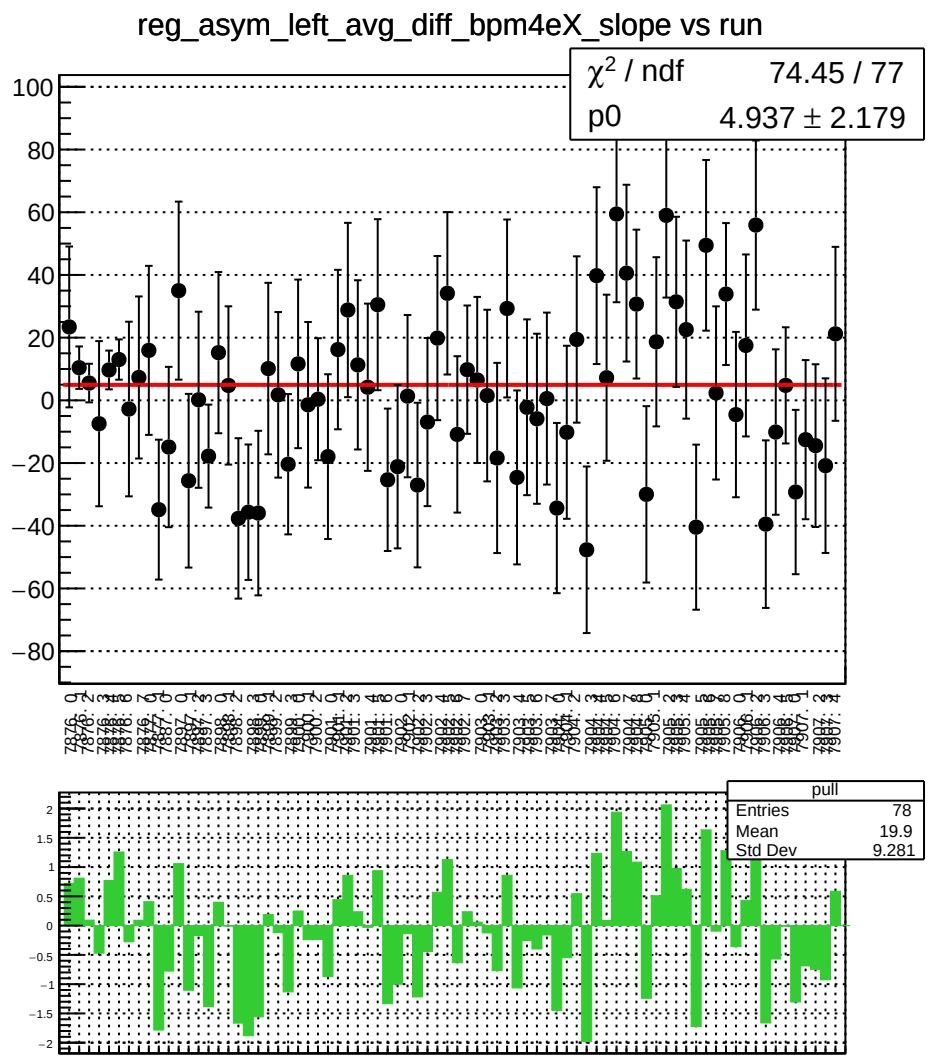

pull1D
Entries 78
Mean 0.1821
Std Dev 1.112

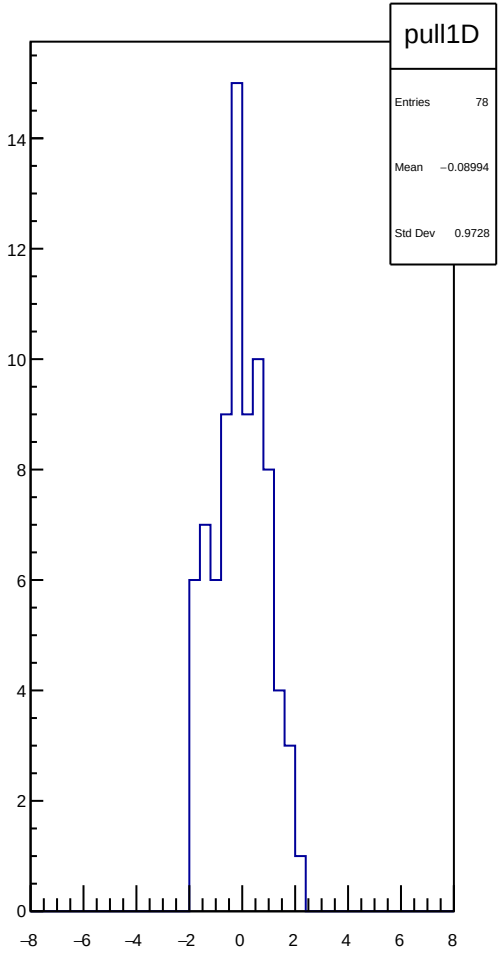

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 71.03 / 77
p0 −38.15 ± 2.702
pull
Entries 78
Mean −2.423
Std Dev 36.8

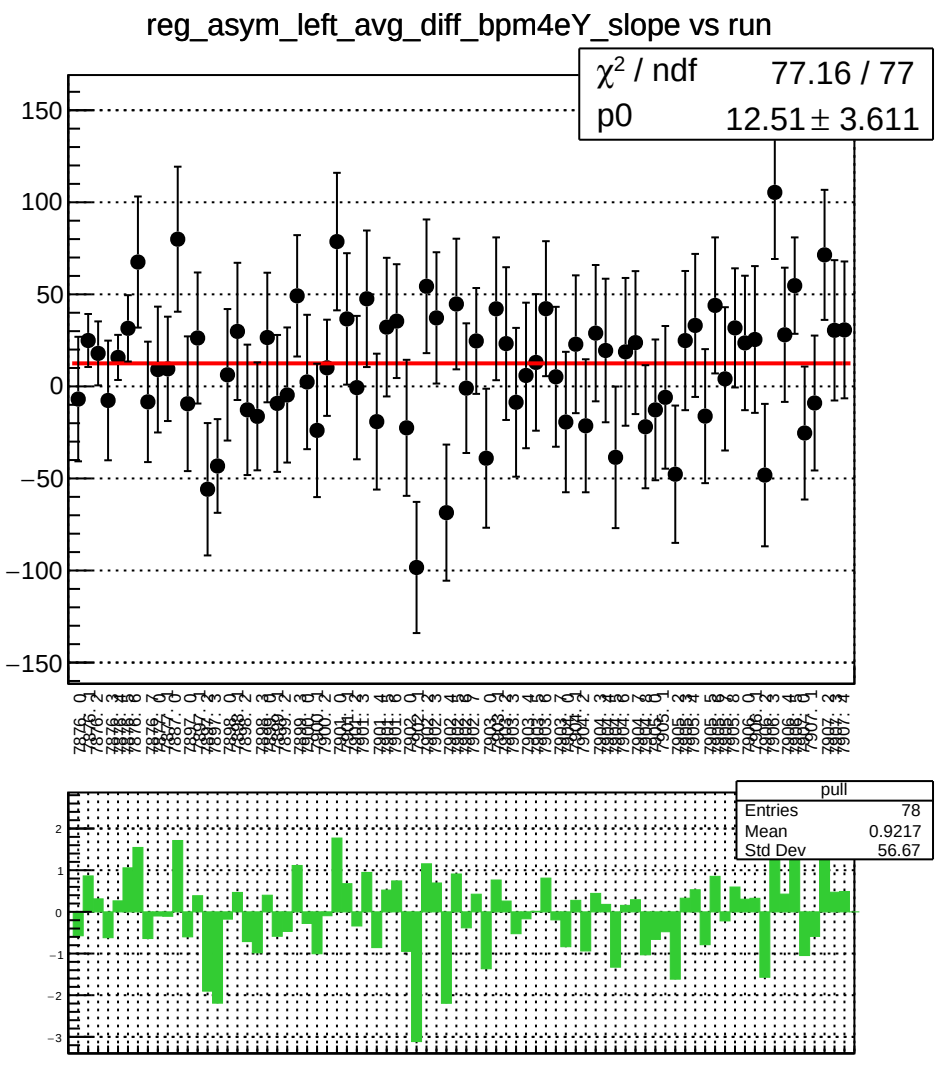

pull1D
Entries 78
Mean 0.05103
Std Dev 0.9529

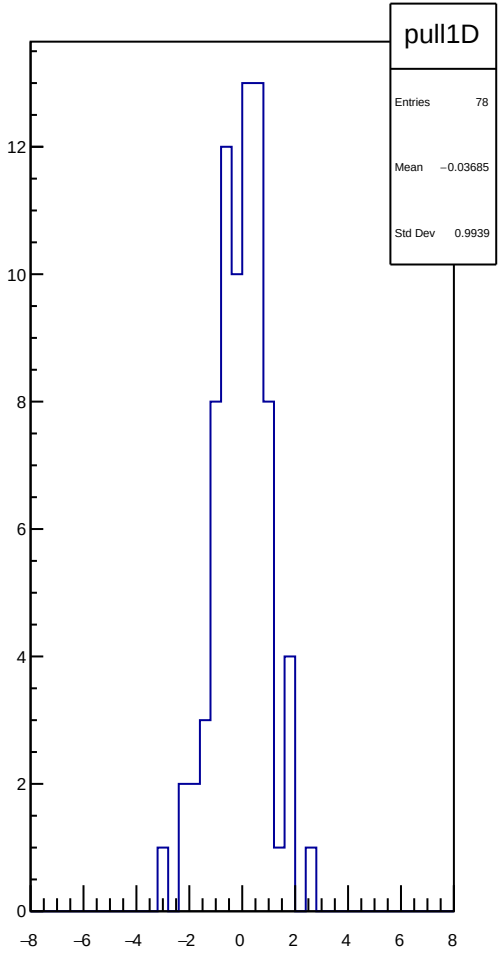

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 78.04 / 77
p0 2.146 ± 2.889
pull
Entries 78
Mean 45.59
Std Dev 24.49

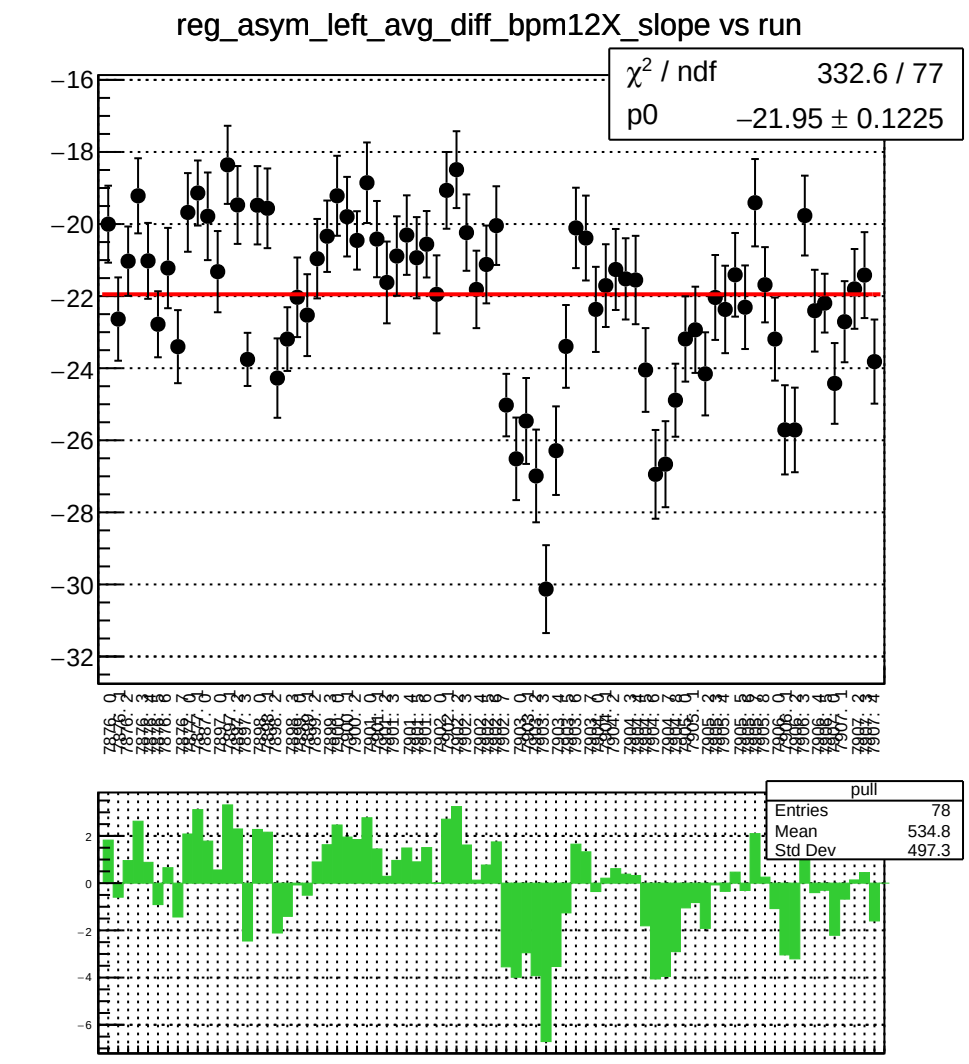

pull1D
Entries 78
Mean 0.09654
Std Dev 0.9956

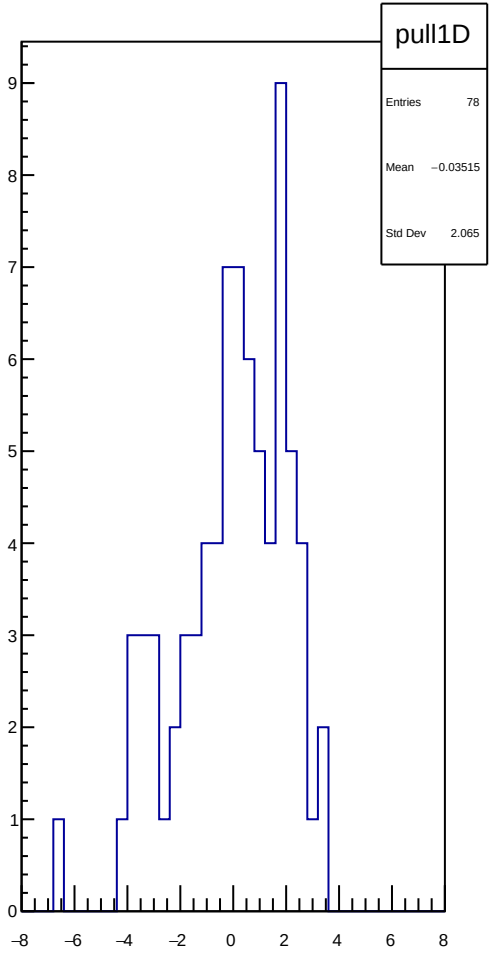

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 74.45 / 77
p0 4.937 ± 2.179
pull
Entries 78
Mean 19.9
Std Dev 9.281

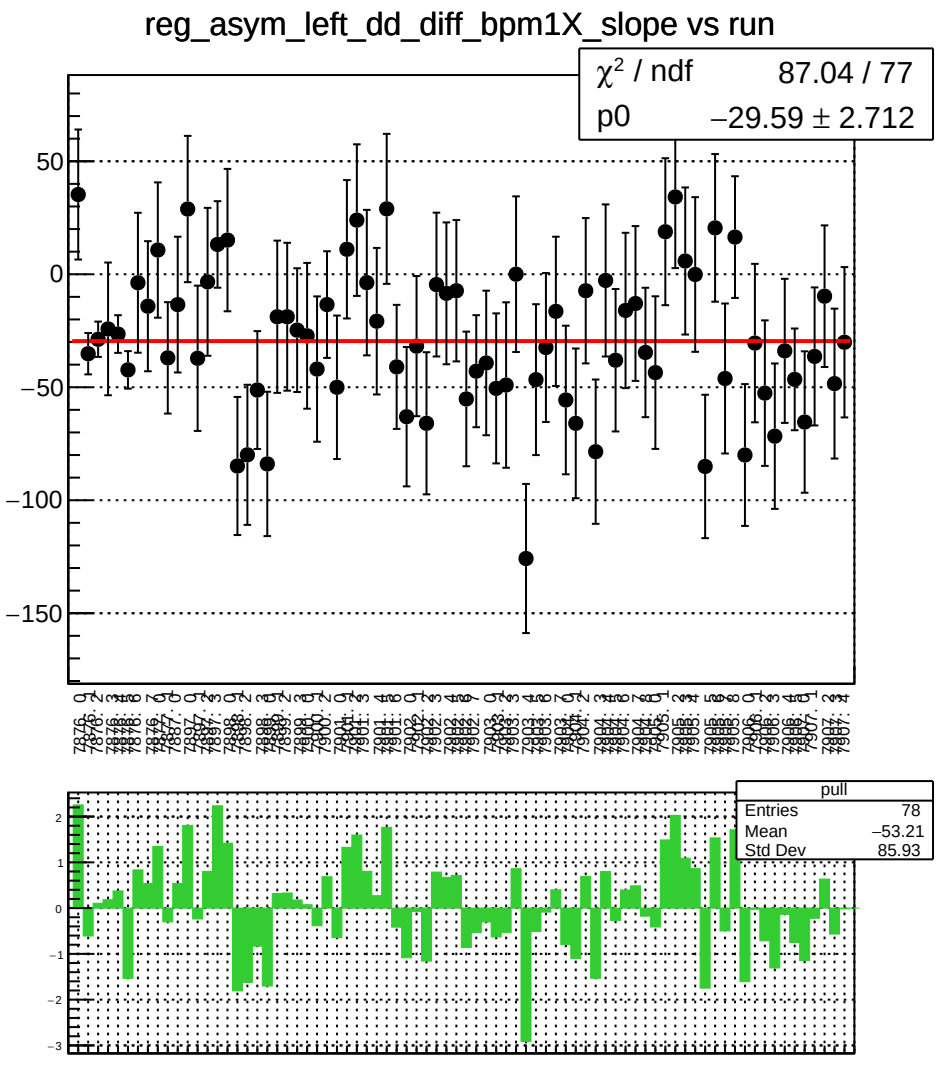

pull1D
Entries 78
Mean −0.08994
Std Dev 0.9728

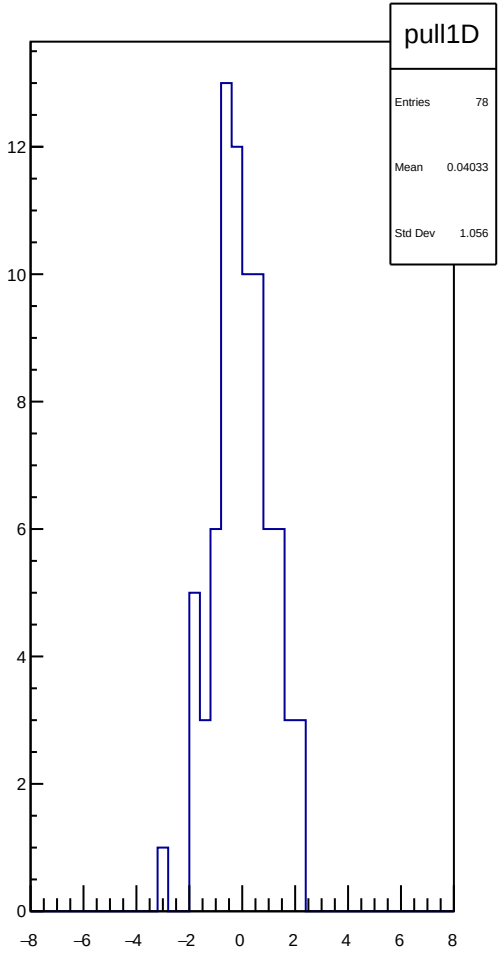

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.16 / 77
p0 12.51 ± 3.611
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 0.9217
Std Dev 56.67
2
1
0
−1
−2
−3

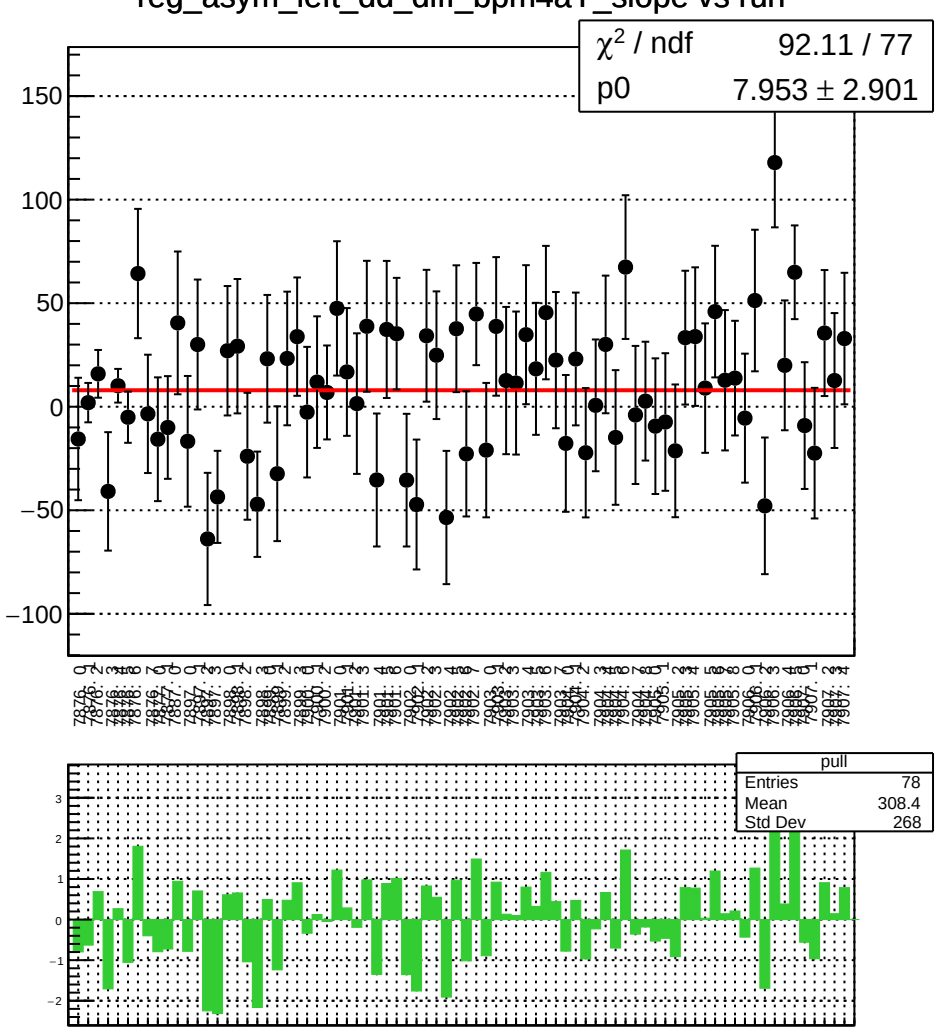

pull1D
Entries 78
Mean −0.03685
Std Dev 0.9939
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

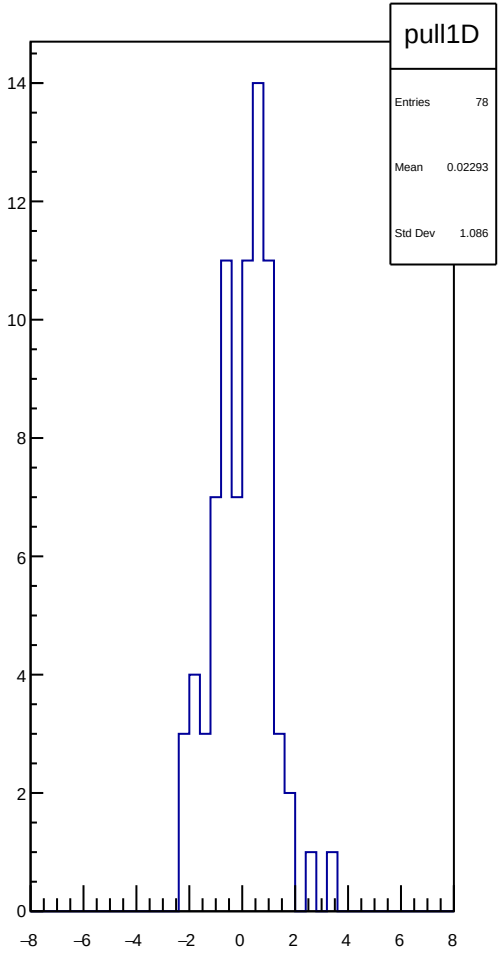

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 332.6 / 77
p0 −21.95 ± 0.1225
pull
Entries 78
Mean 534.8
Std Dev 497.3

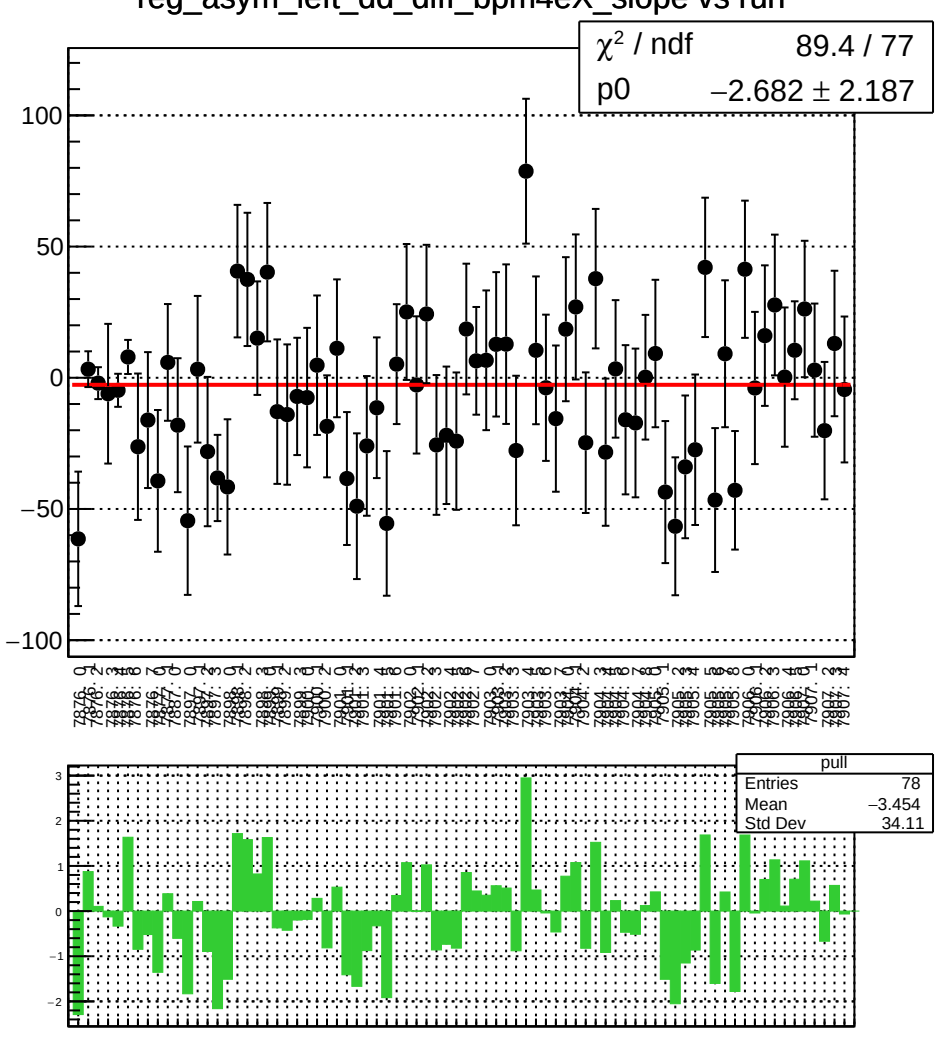

pull1D
Entries 78
Mean −0.03515
Std Dev 2.065

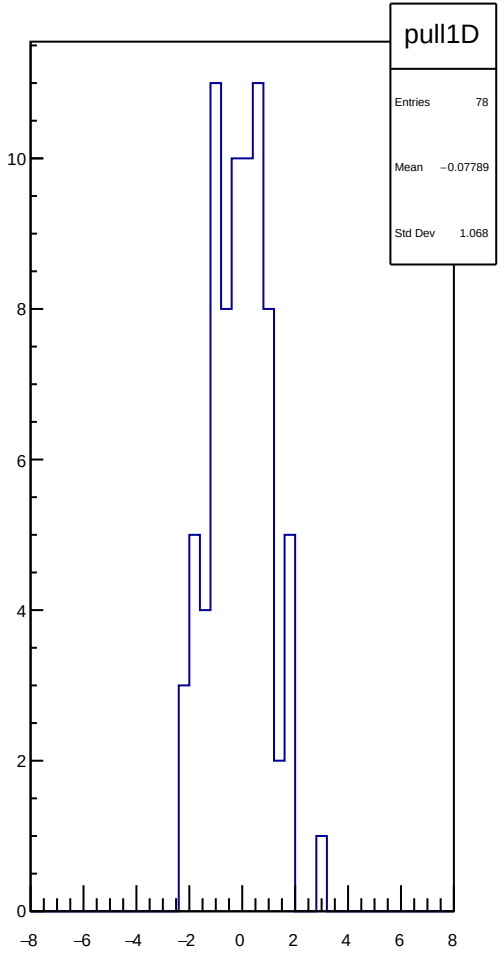

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 87.04 / 77
p0 −29.59 ± 2.712
50
0
−50
−100
−150
pull
Entries 78
Mean −53.21
Std Dev 85.93
2
1
0
−1
−2
−3

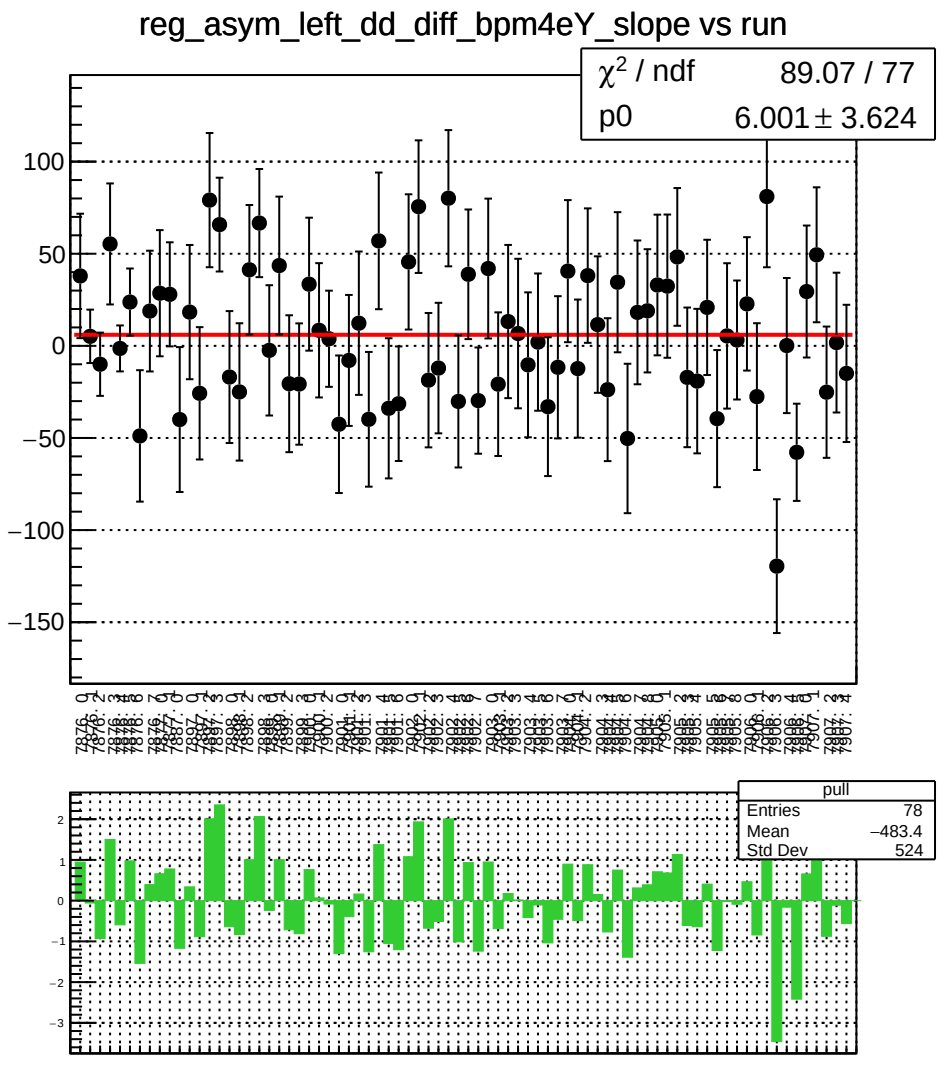

pull1D
Entries 78
Mean 0.04033
Std Dev 1.056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

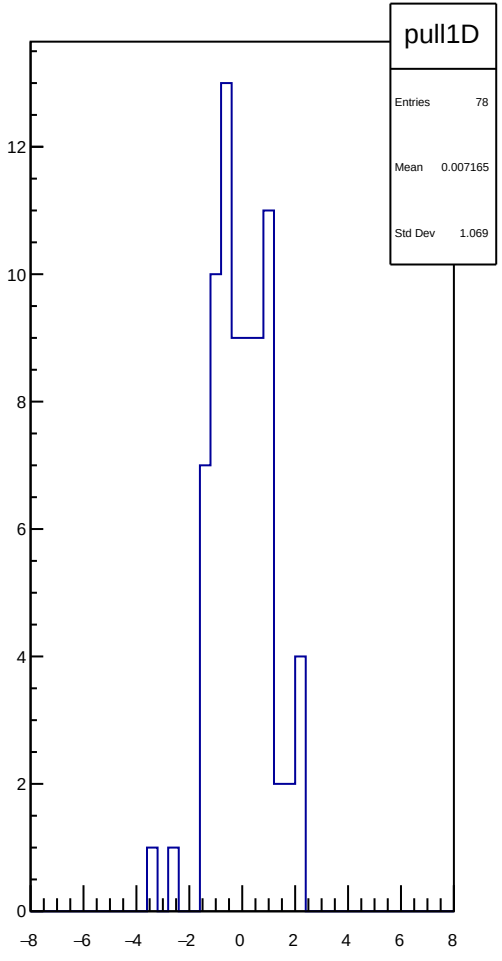

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 92.11 / 77
p0 7.953 ± 2.901
150
100
50
0
−50
−100
pull
Entries 78
Mean 308.4
Std Dev 268
3
2
1
0
−1
−2

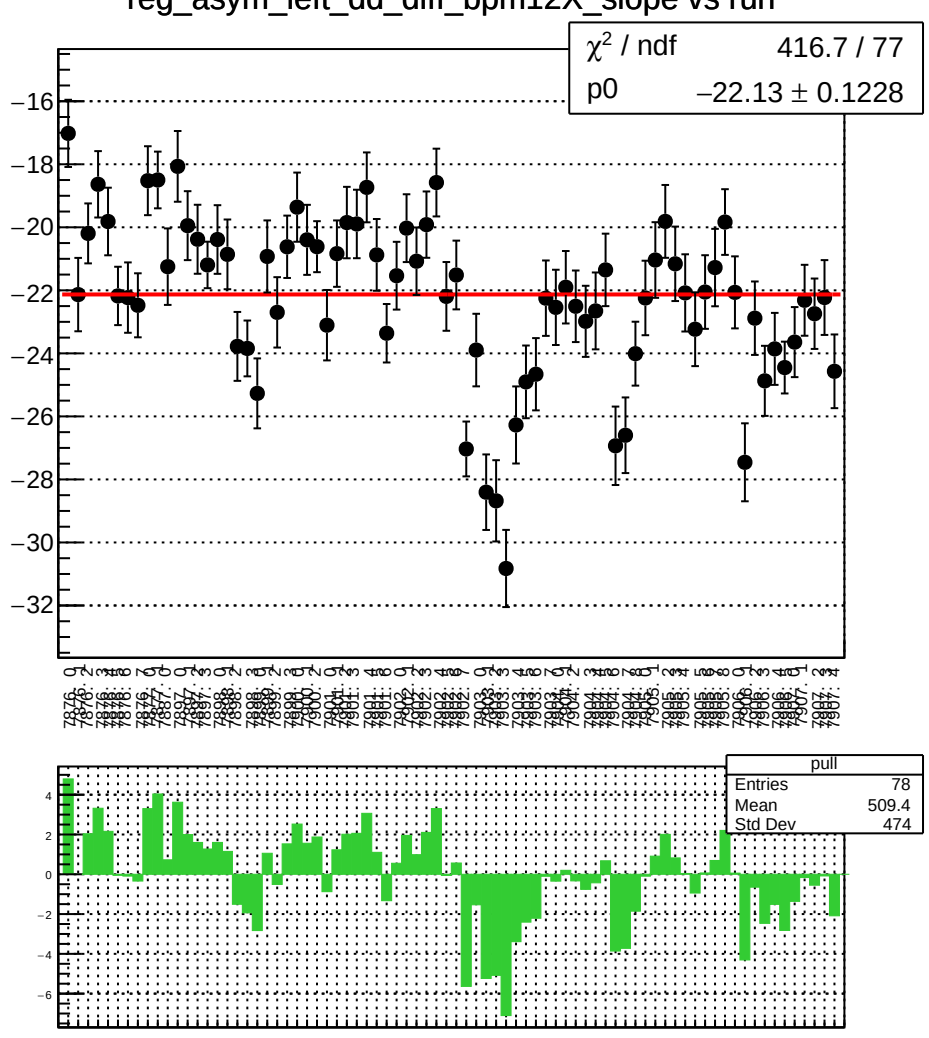

pull1D
Entries 78
Mean 0.02293
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

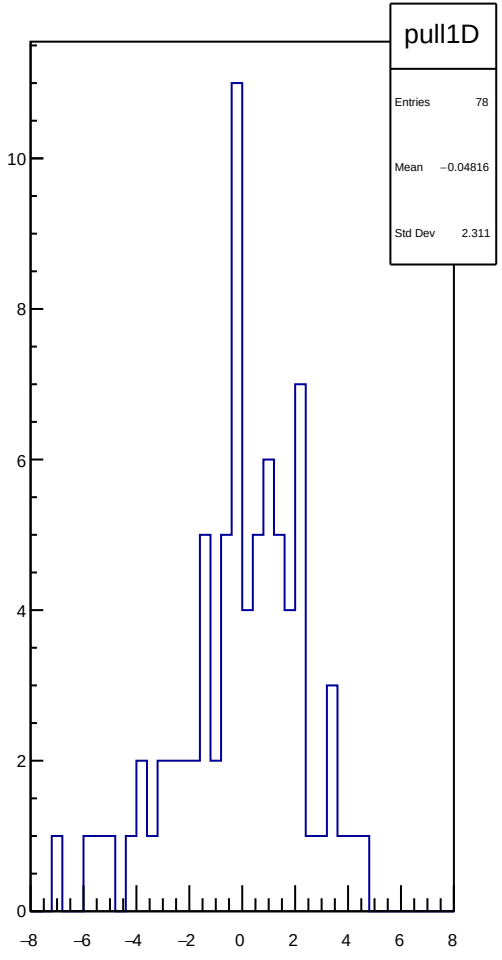

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 89.4 / 77
p0 −2.682 ± 2.187
pull
Entries 78
Mean −3.454
Std Dev 34.11

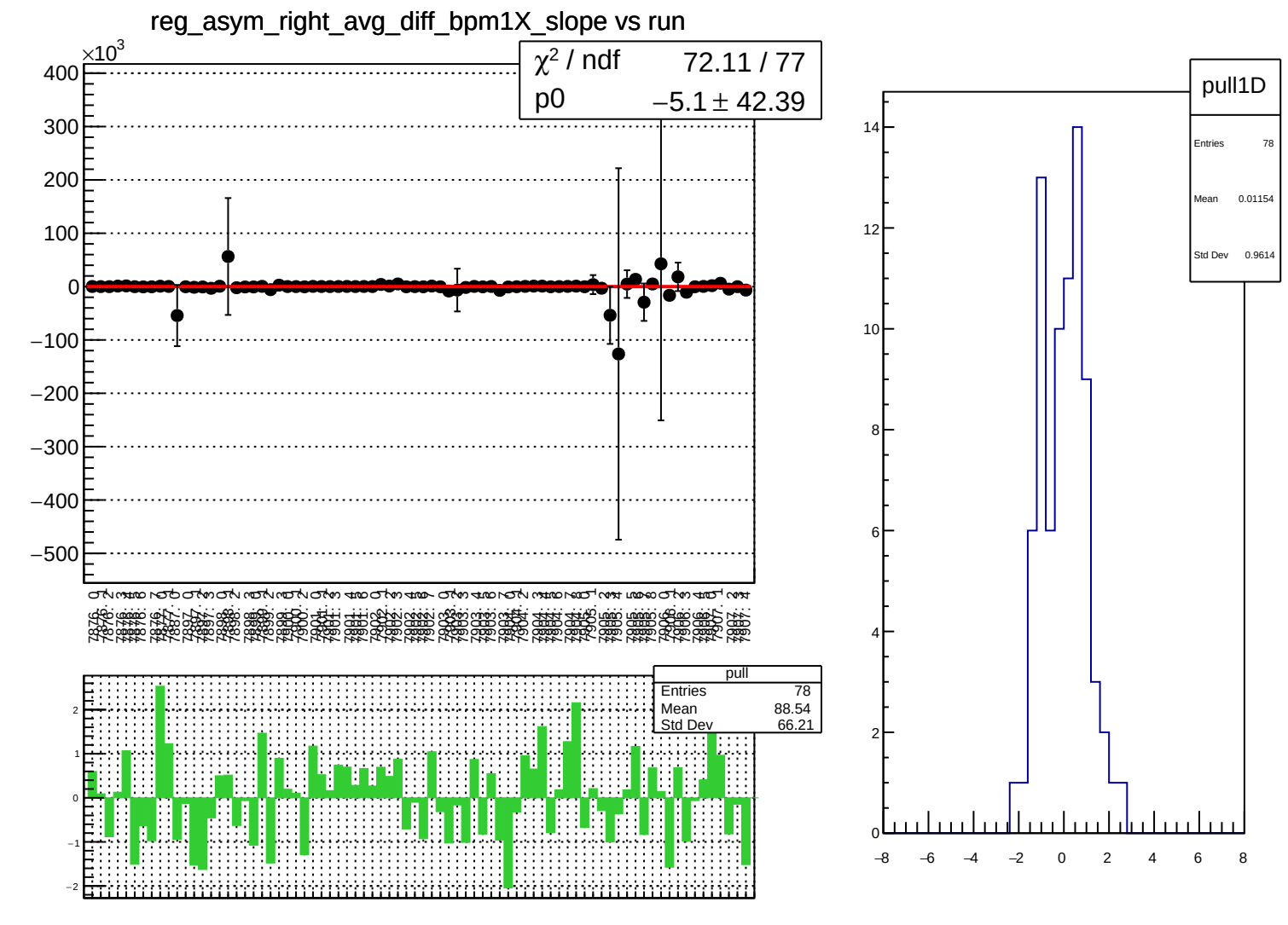

pull1D
Entries 78
Mean −0.07789
Std Dev 1.068

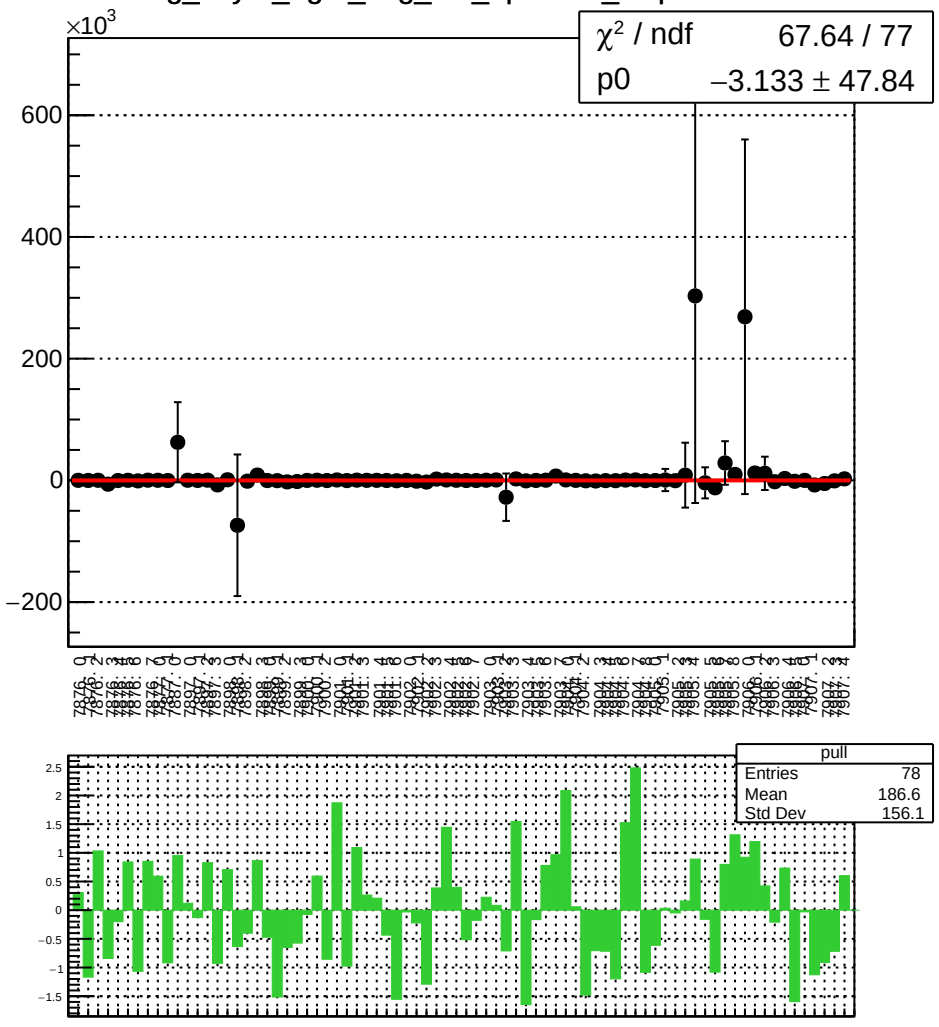

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.07 / 77
p0 6.001 ± 3.624
pull
Entries 78
Mean −483.4
Std Dev 524

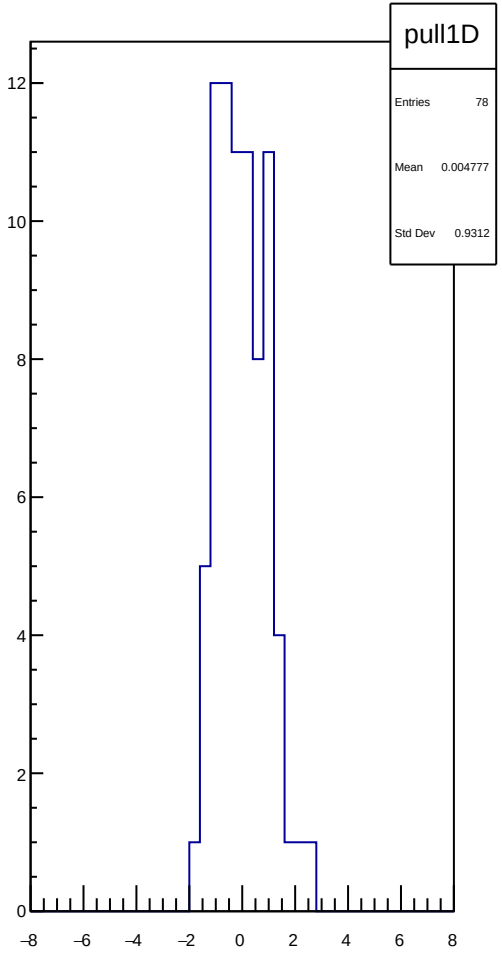

pull1D
Entries 78
Mean 0.007165
Std Dev 1.069

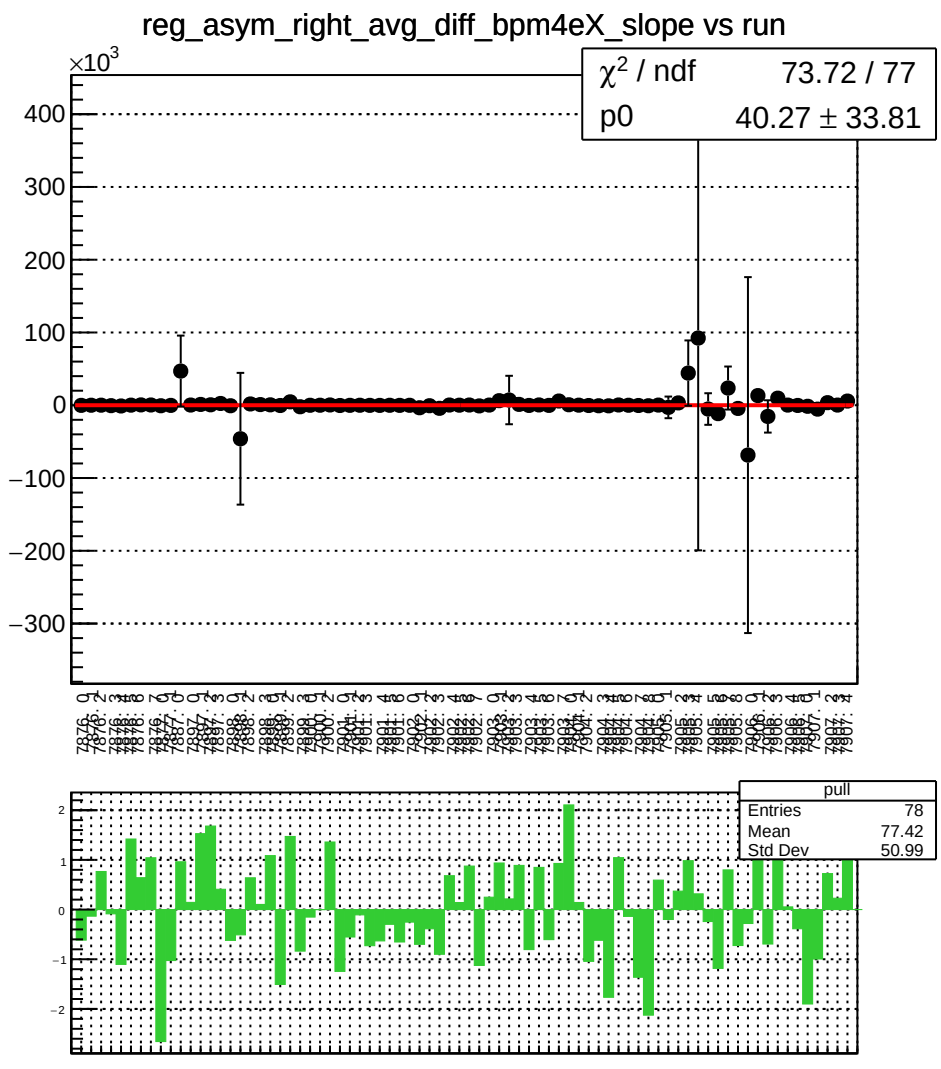

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 416.7 / 77
p0 −22.13 ± 0.1228
pull
Entries 78
Mean 509.4
Std Dev 474

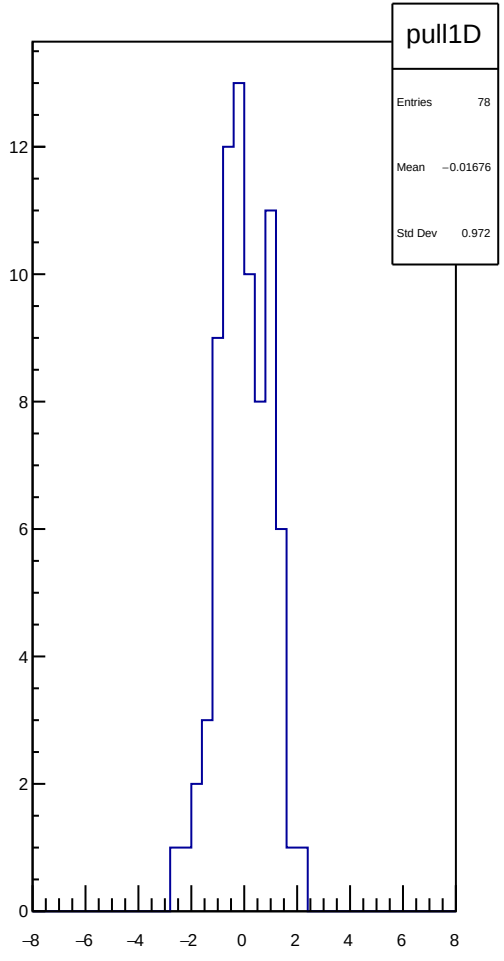

pull1D
Entries 78
Mean −0.04816
Std Dev 2.311

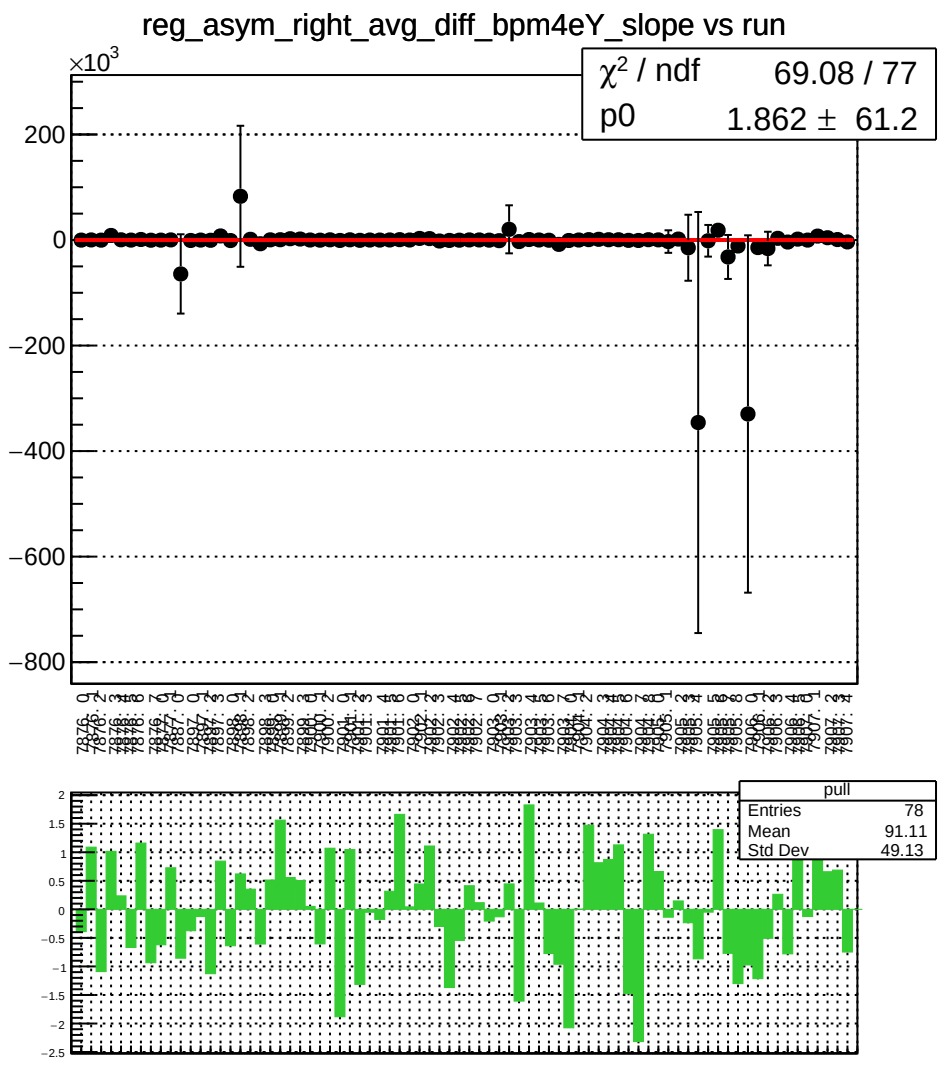

reg_asym_right_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 72.11 / 77
p0 −5.1 ± 42.39
pull
Entries 78
Mean 88.54
Std Dev 66.21
pull1D
Entries 78
Mean 0.01154
Std Dev 0.9614

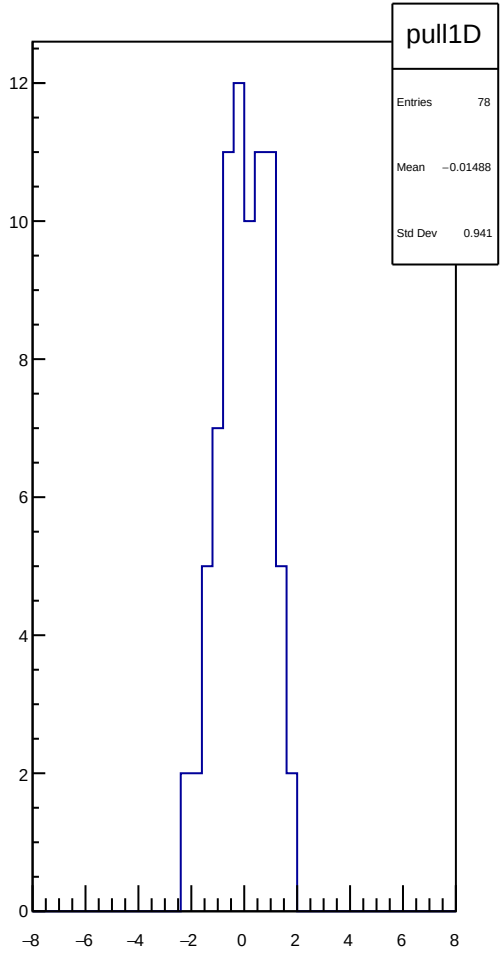

reg_asym_right_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 67.64 / 77
p0 −3.133 ± 47.84
600
400
200
0
−200
pull
Entries 78
Mean 186.6
Std Dev 156.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

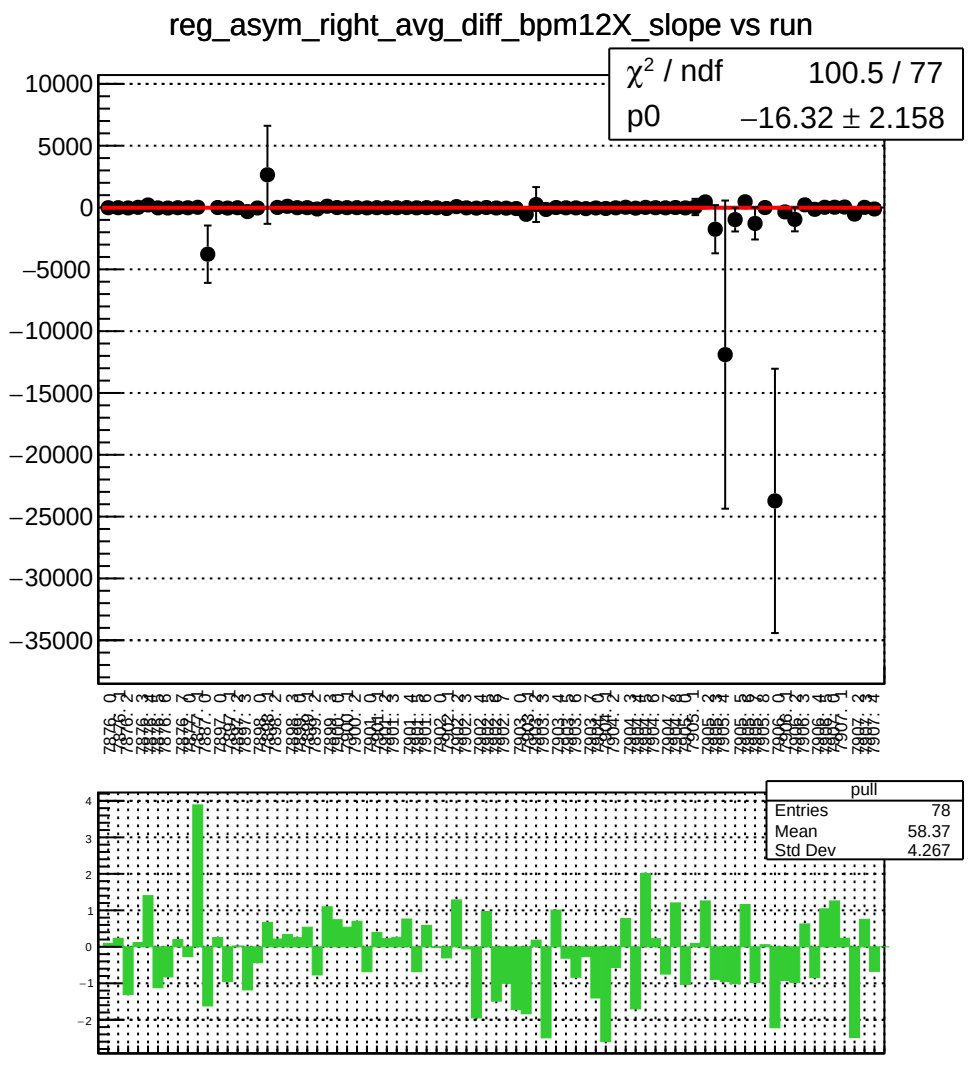

pull1D
Entries 78
Mean 0.004777
Std Dev 0.9312
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

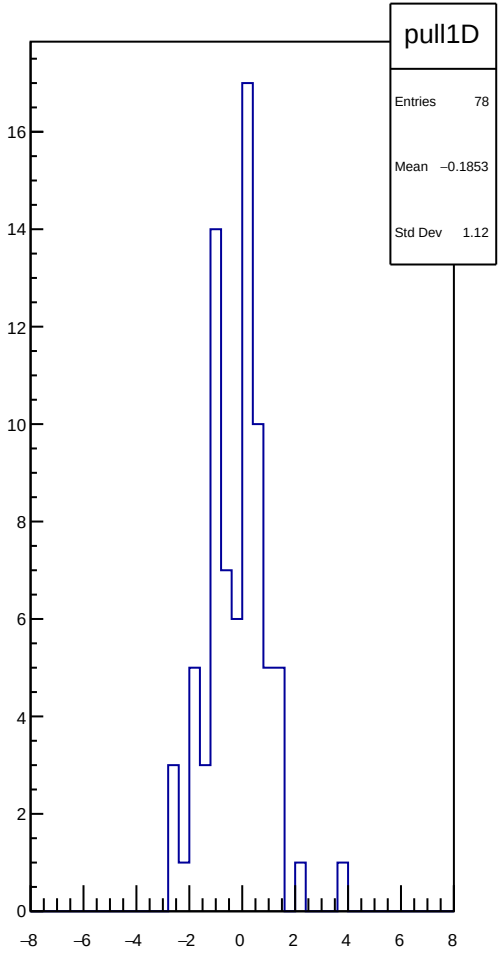

reg_asym_right_avg_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 73.72 / 77
p0 40.27 ± 33.81
pull
Entries 78
Mean 77.42
Std Dev 50.99

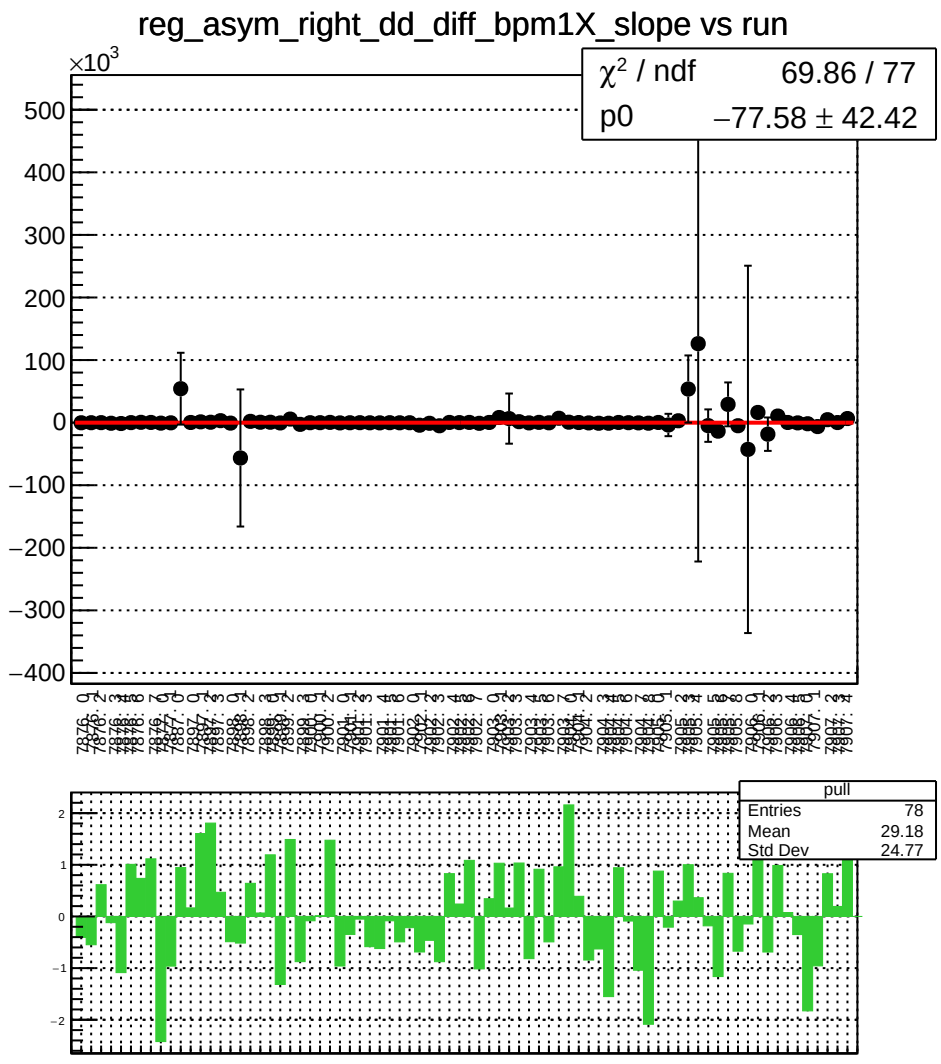

pull1D
Entries 78
Mean −0.01676
Std Dev 0.972

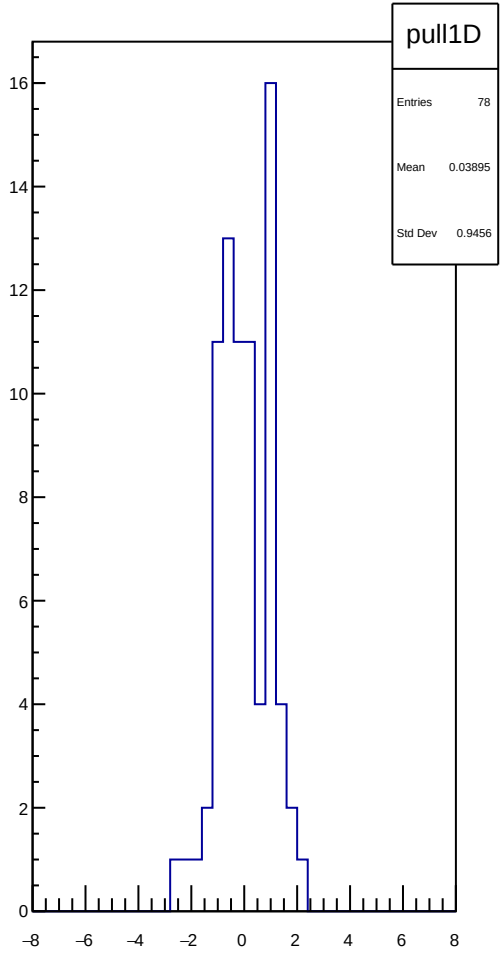

reg_asym_right_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 69.08 / 77
p0 1.862 ± 61.2
200
0
−200
−400
−600
−800
pull
Entries 78
Mean 91.11
Std Dev 49.13
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

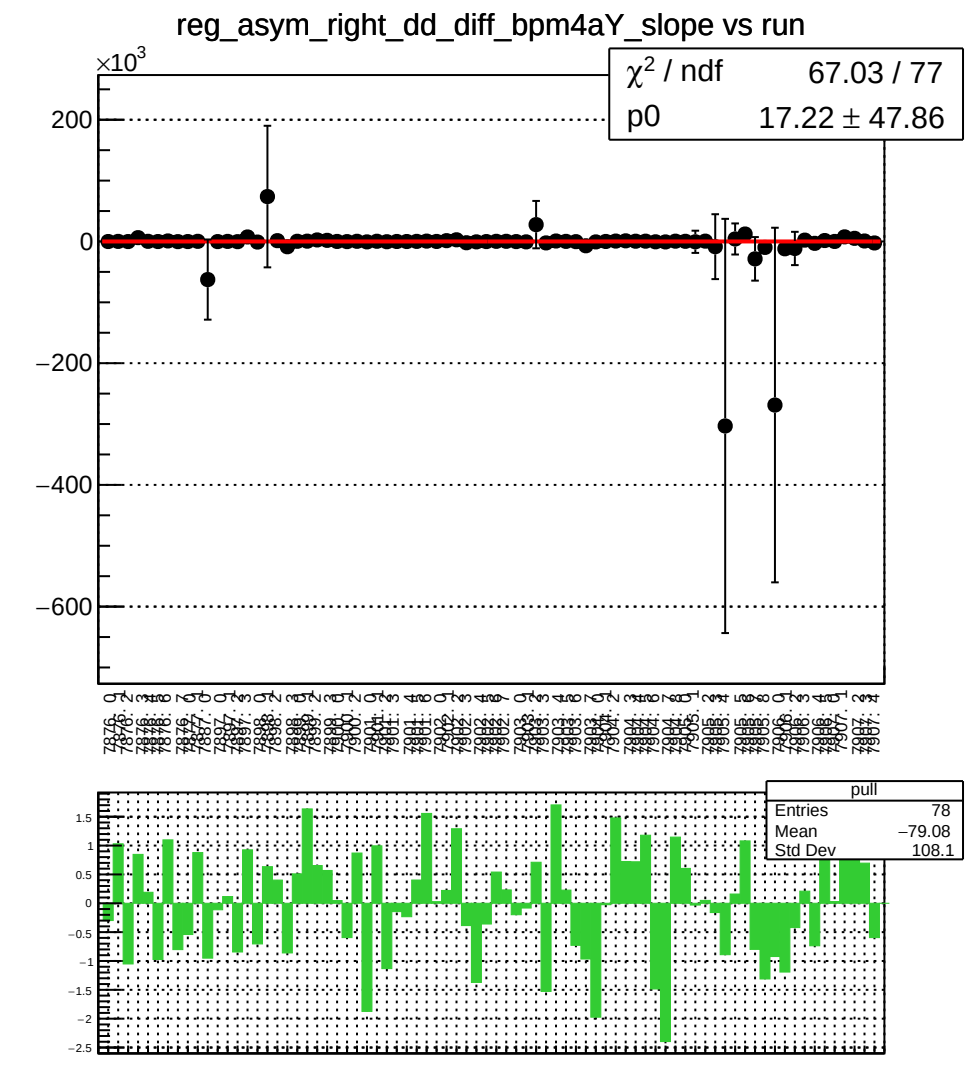

pull1D
Entries 78
Mean −0.01488
Std Dev 0.941
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

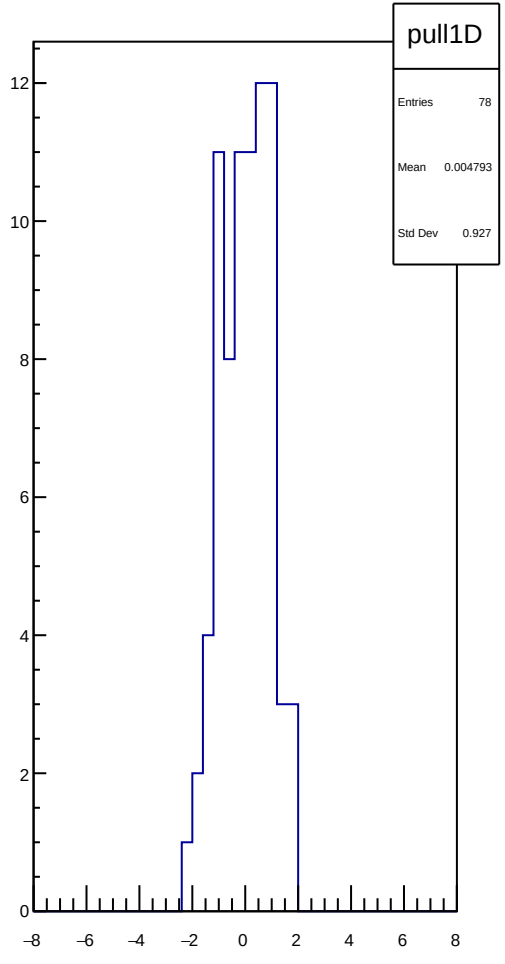

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 100.5 / 77
p0 −16.32 ± 2.158
pull
Entries 78
Mean 58.37
Std Dev 4.267

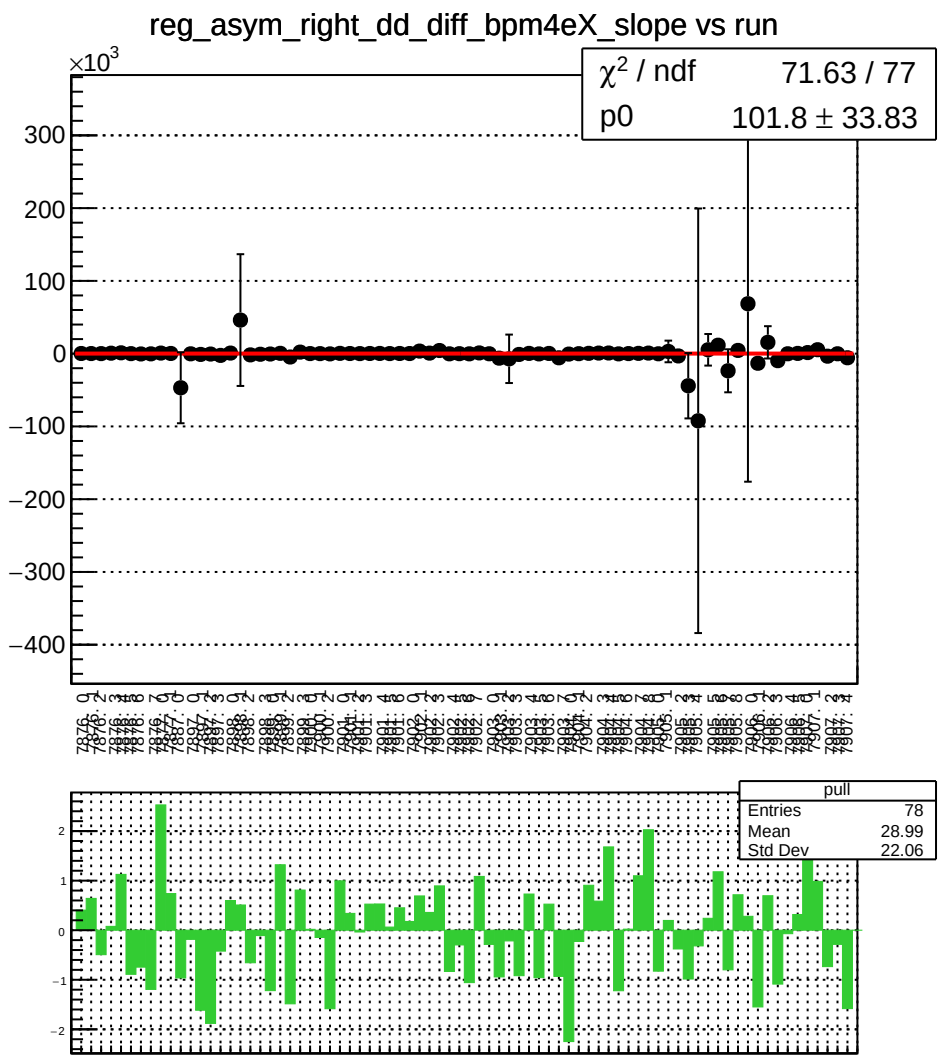

pull1D
Entries 78
Mean −0.1853
Std Dev 1.12

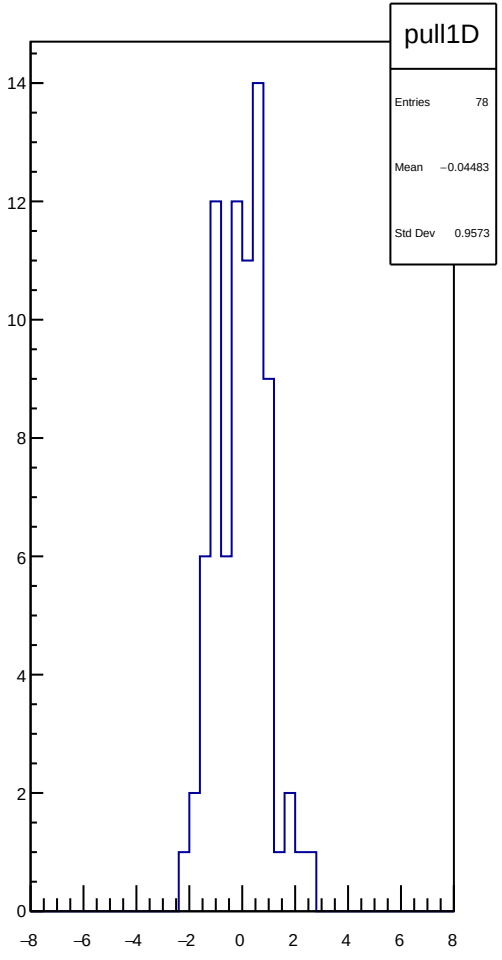

reg_asym_right_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 69.86 / 77
p0 −77.58 ± 42.42
pull
Entries 78
Mean 29.18
Std Dev 24.77

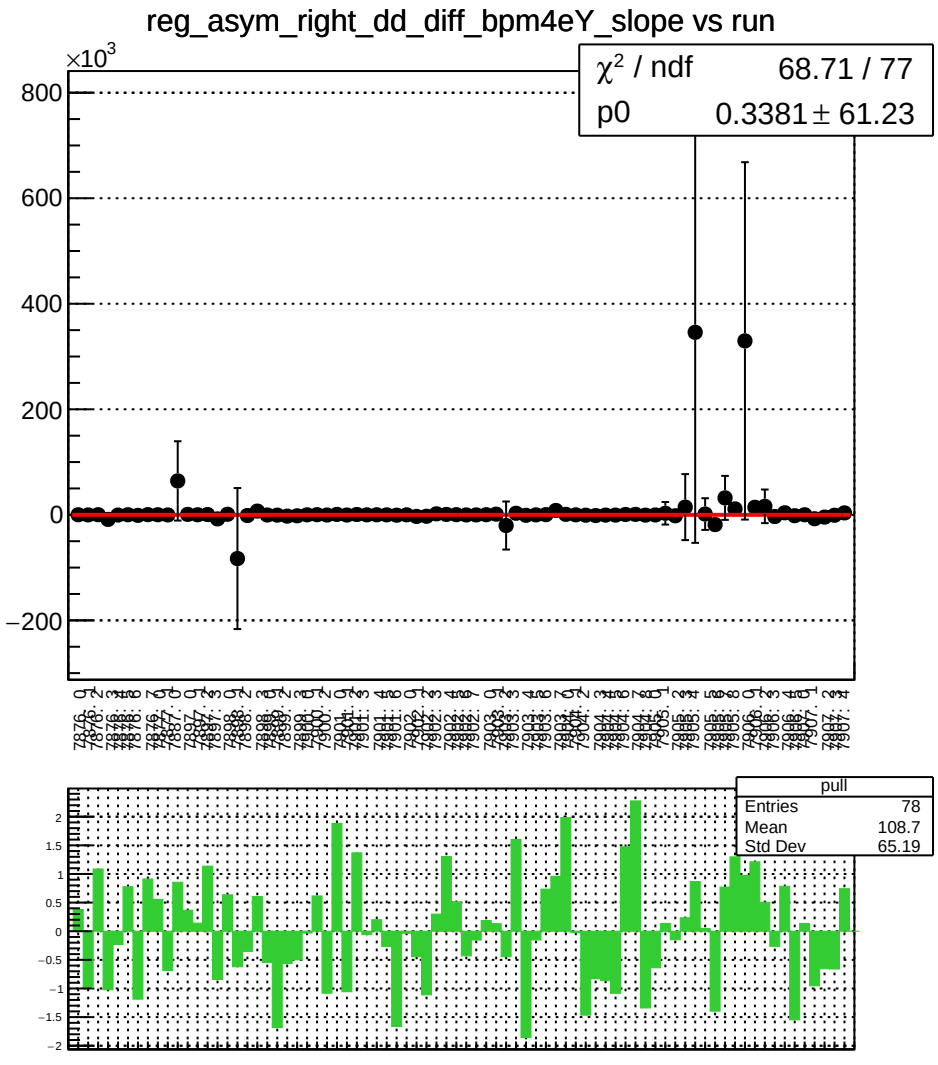

pull1D
Entries 78
Mean 0.03895
Std Dev 0.9456

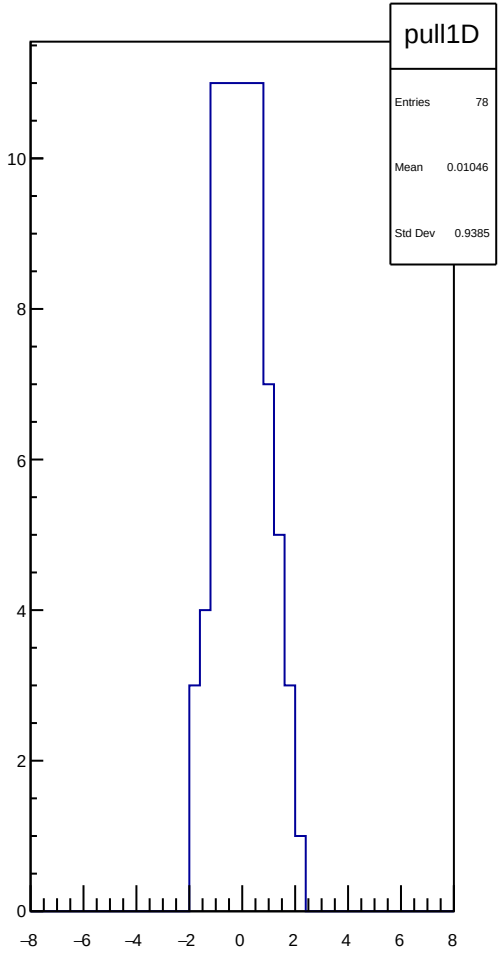

reg_asym_right_dd_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 67.03 / 77
p0 17.22 ± 47.86
200
0
−200
−400
−600
pull
Entries 78
Mean −79.08
Std Dev 108.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

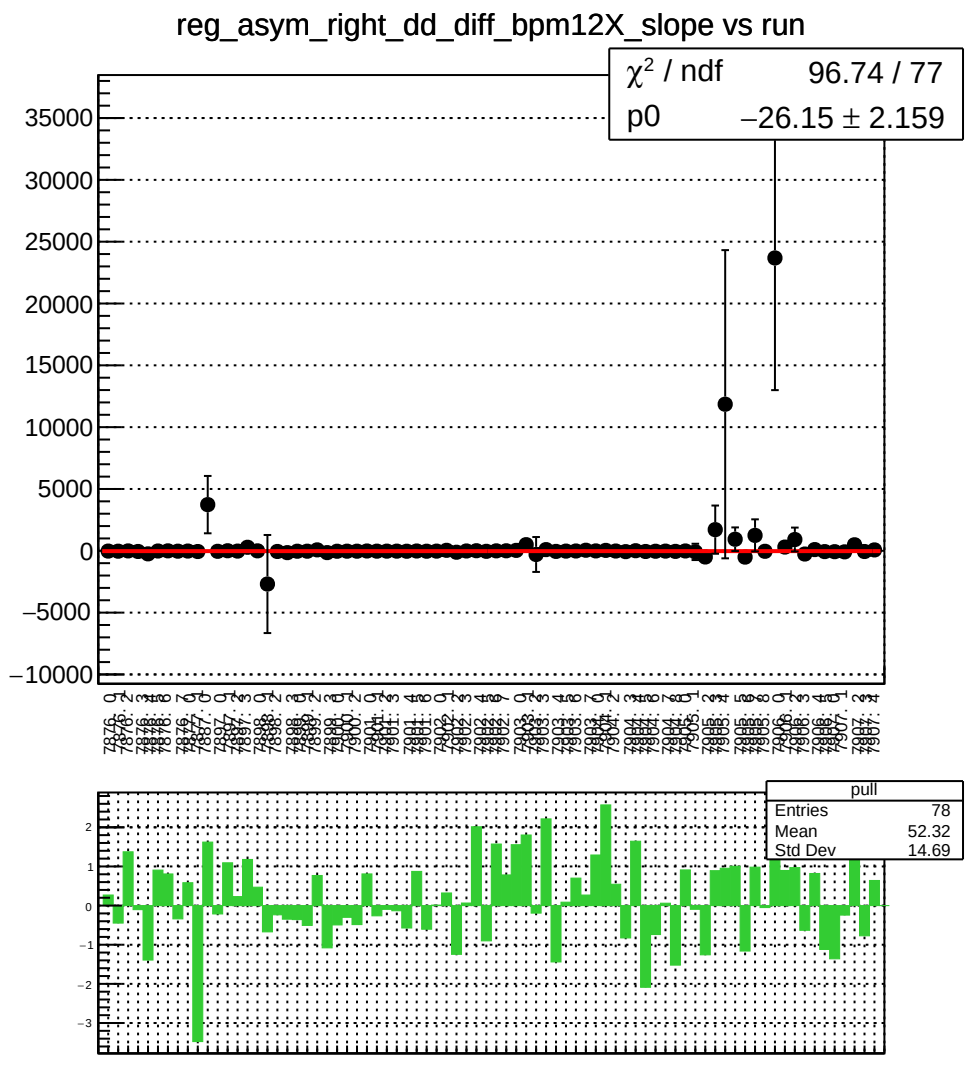

pull1D
Entries 78
Mean 0.004793
Std Dev 0.927
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

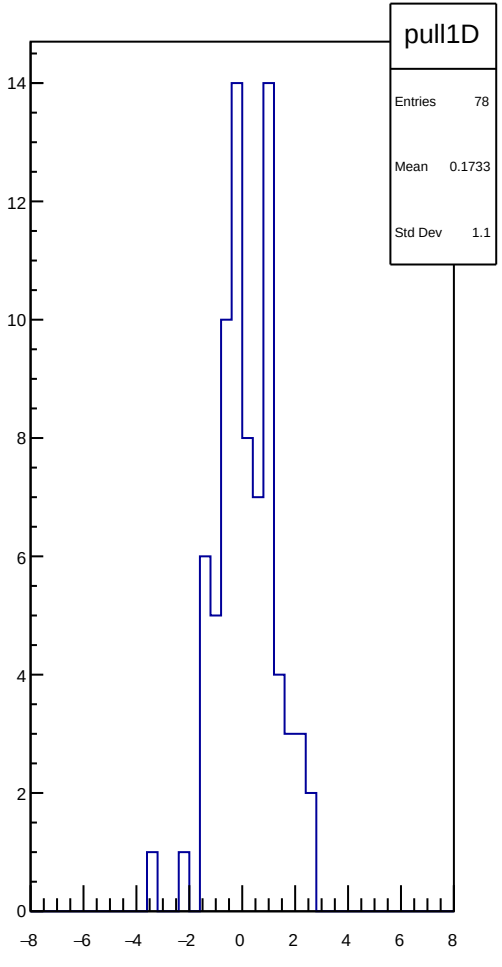

reg_asym_right_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 71.63 / 77
p0 101.8 ± 33.83
300
200
100
0
−100
−200
−300
−400
pull
Entries 78
Mean 28.99
Std Dev 22.06
2
1
0
−1
−2

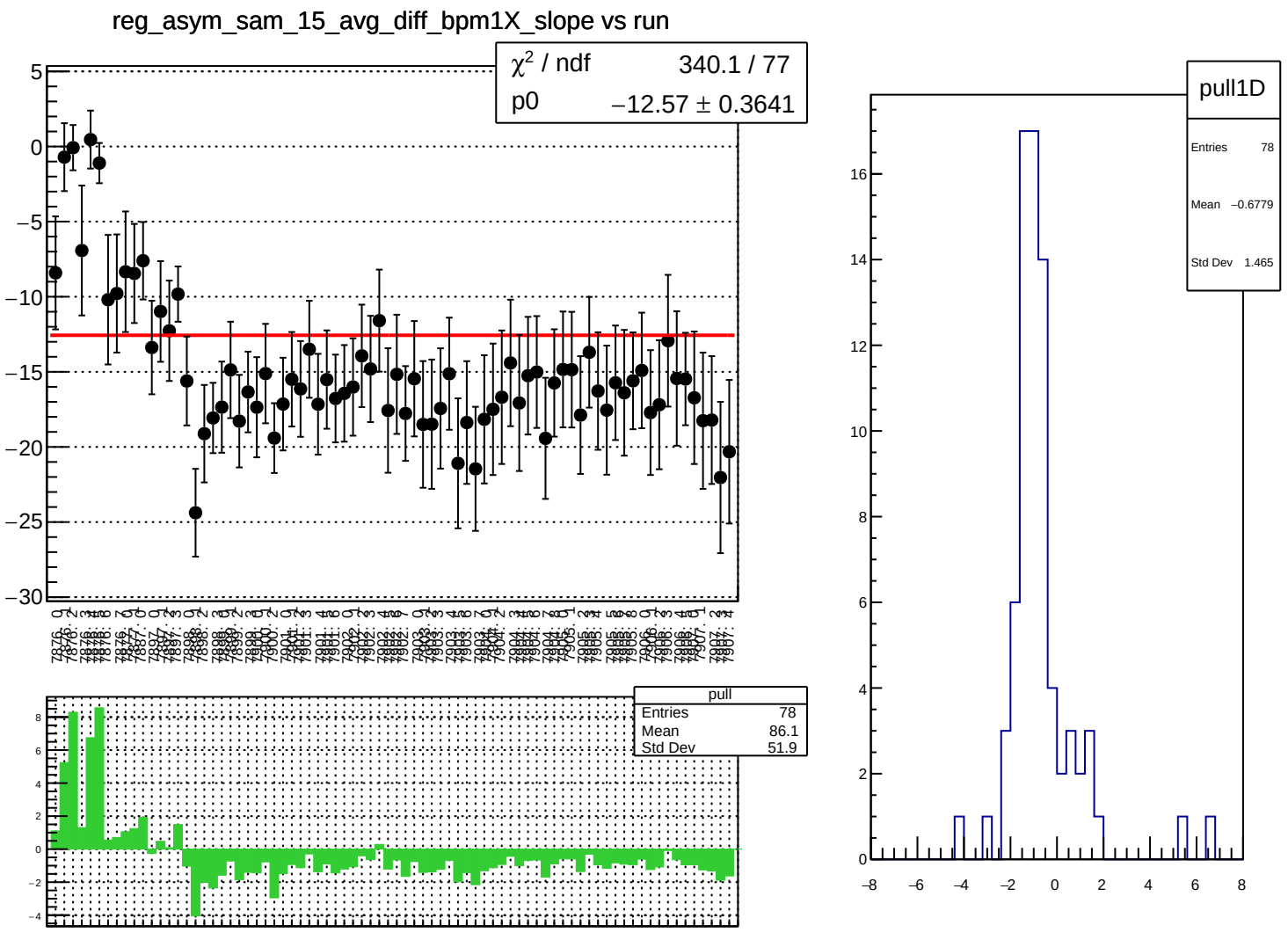

pull1D
Entries 78
Mean −0.04483
Std Dev 0.9573
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

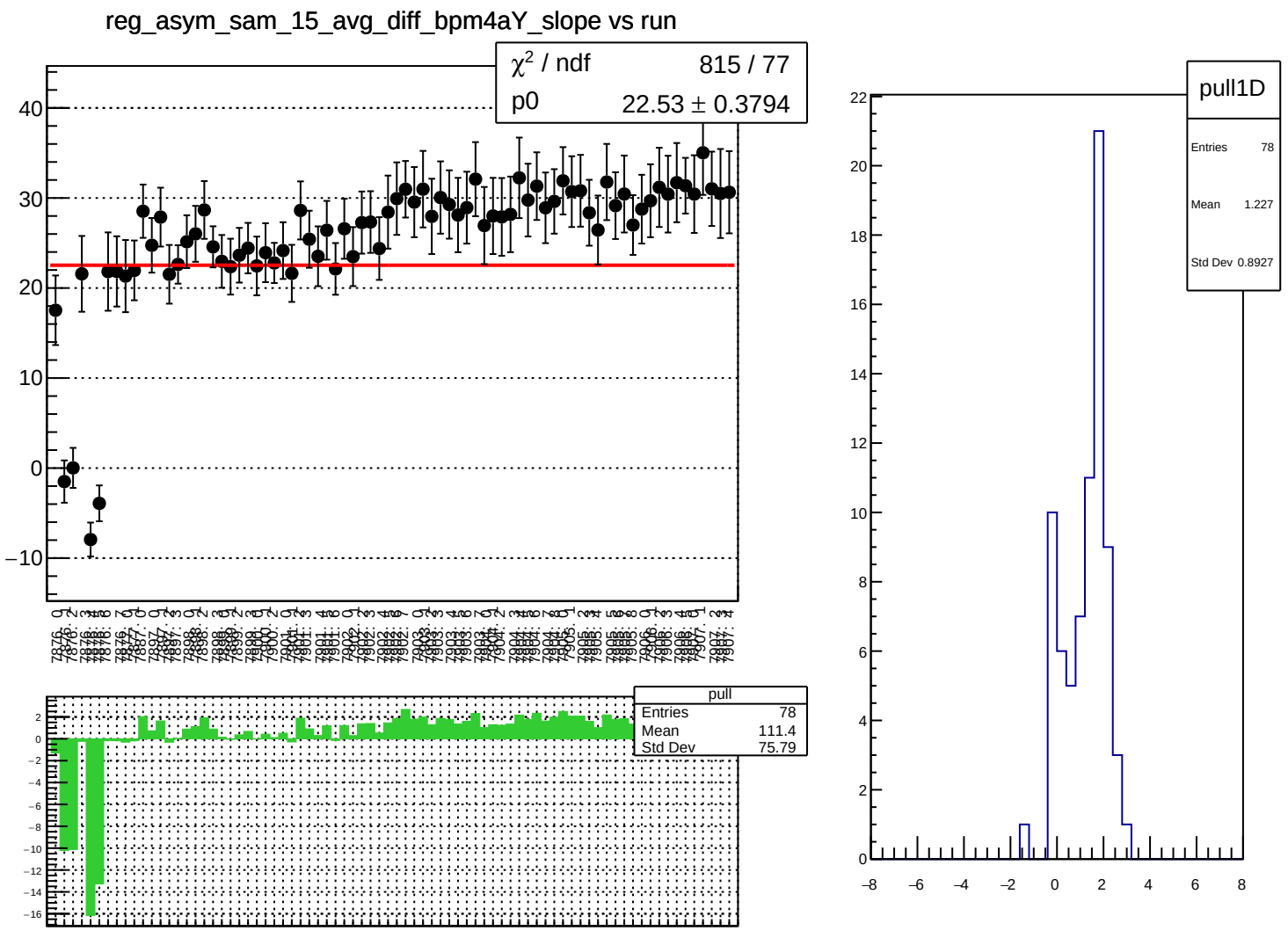

reg_asym_right_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 68.71 / 77
p0 0.3381 ± 61.23
800
600
400
200
0
−200
pull
Entries 78
Mean 108.7
Std Dev 65.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

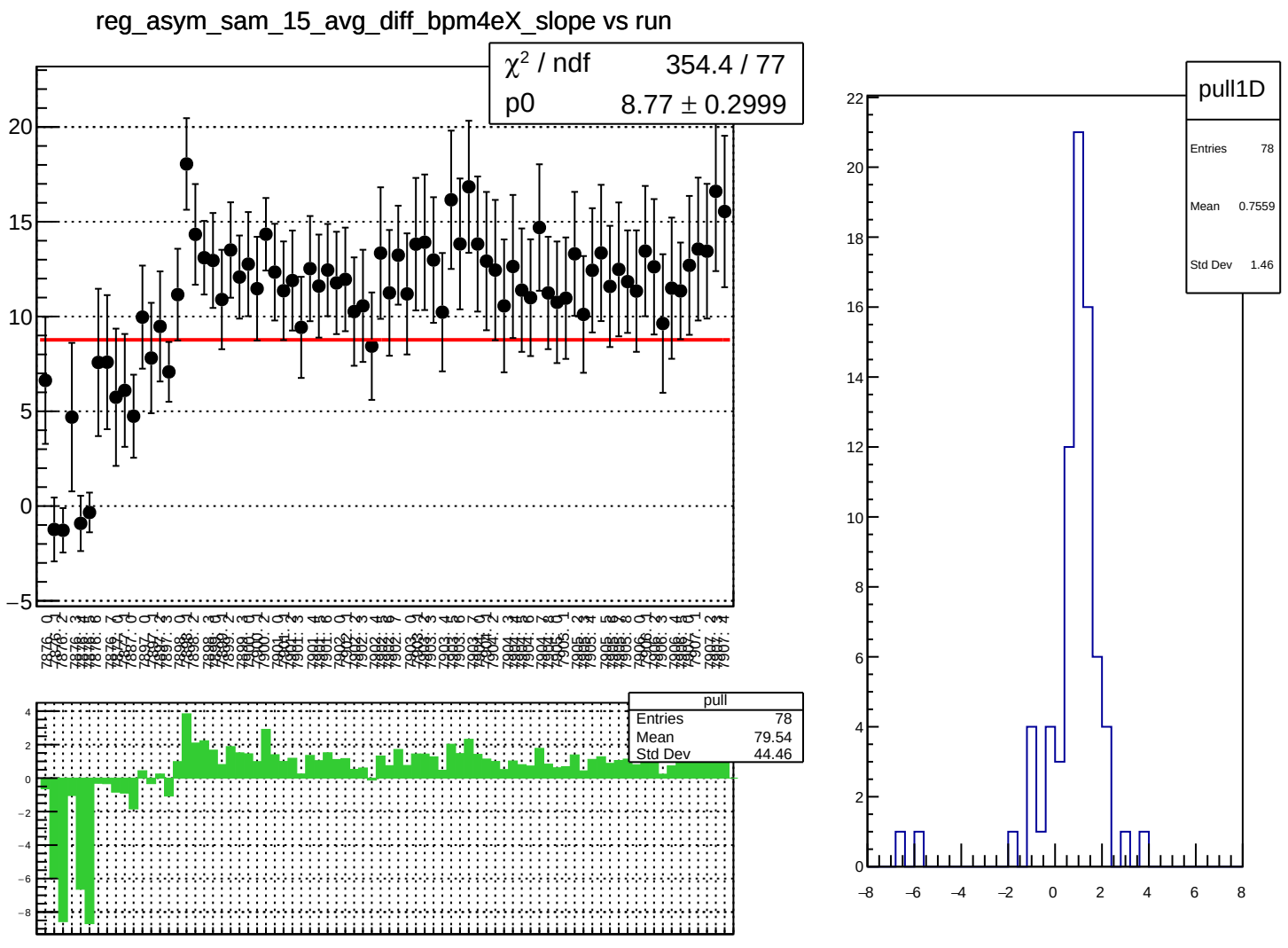

pull1D
Entries 78
Mean 0.01046
Std Dev 0.9385
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

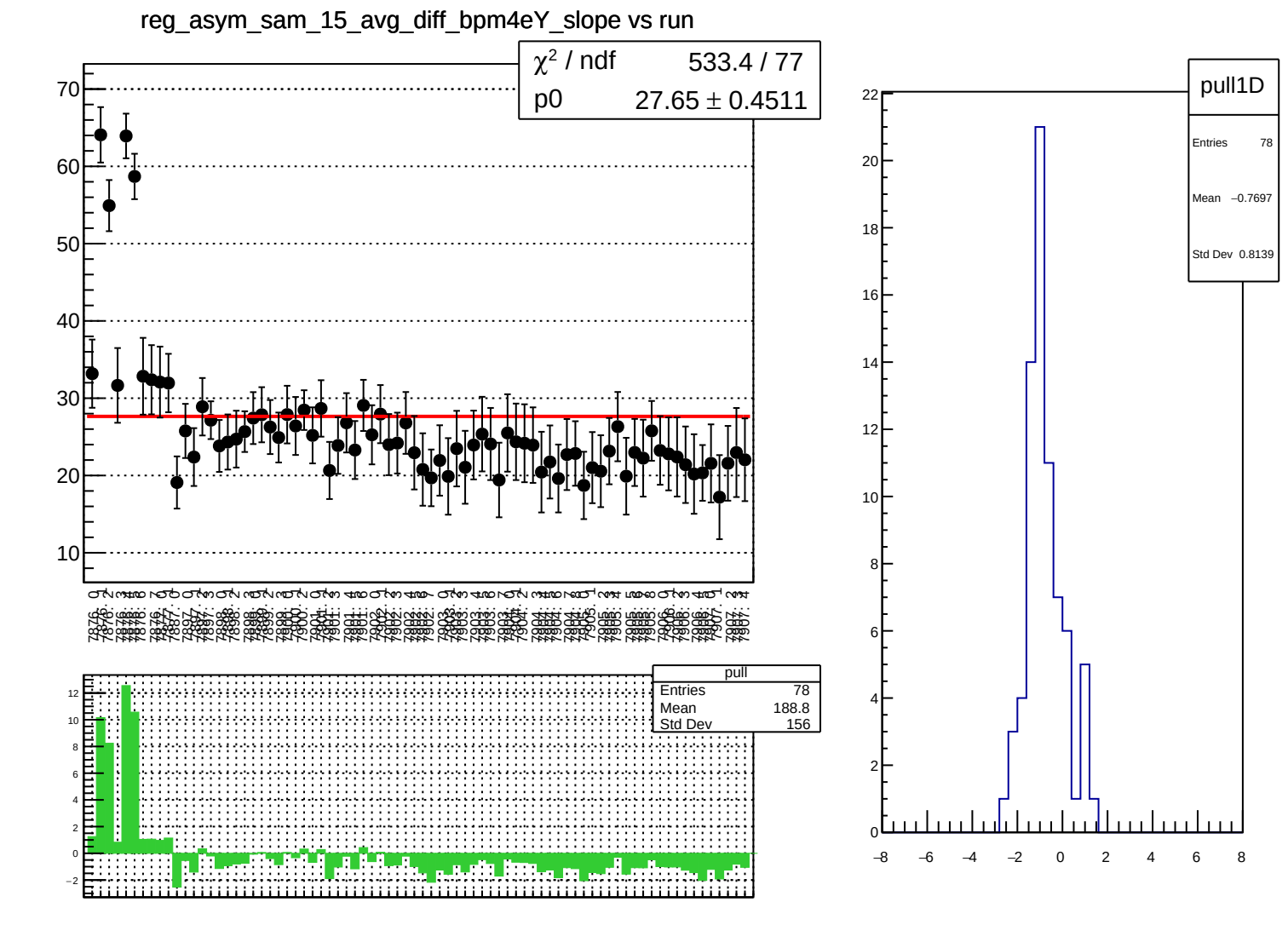

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 96.74 / 77
p0 −26.15 ± 2.159
pull
Entries 78
Mean 52.32
Std Dev 14.69

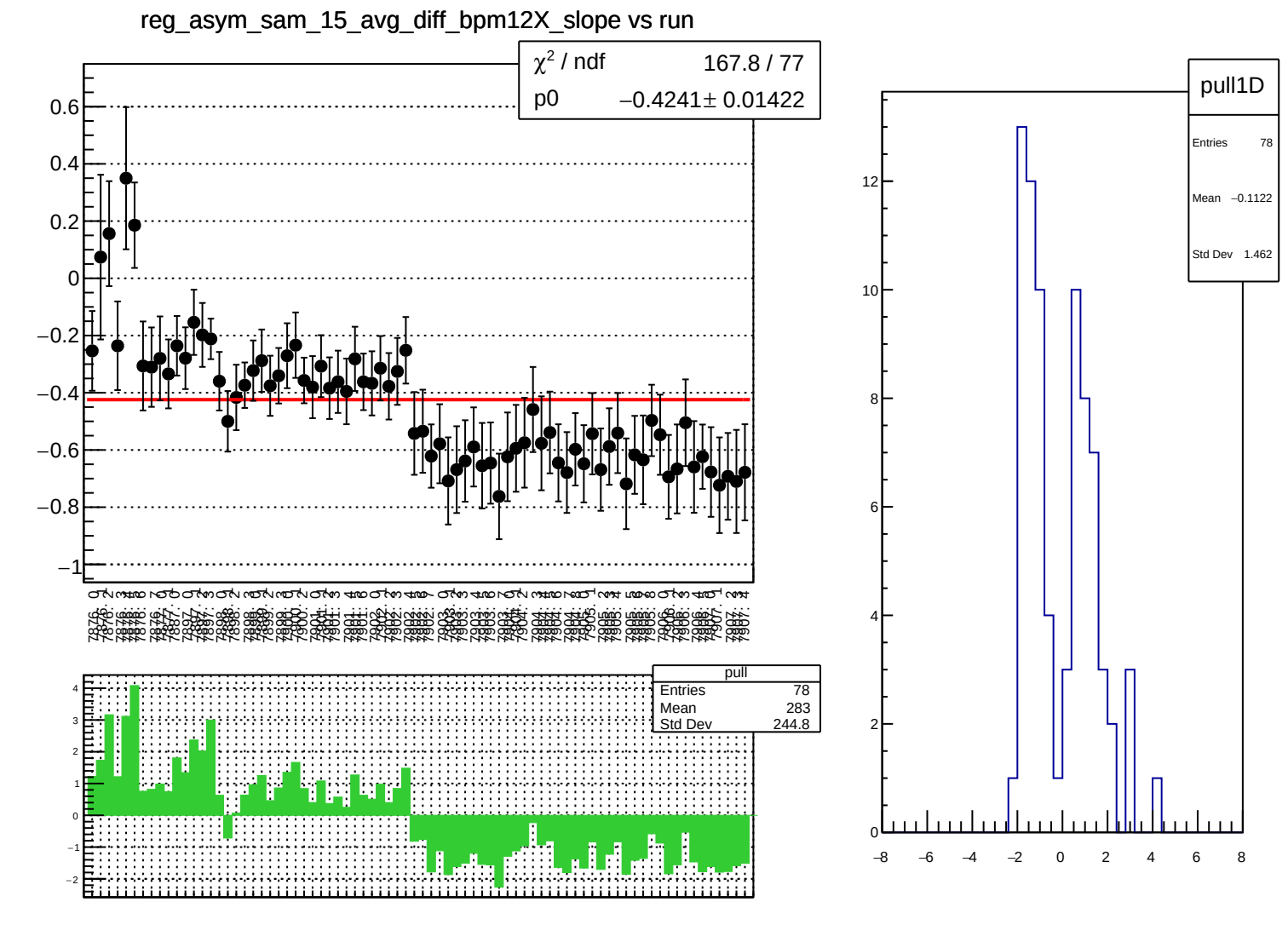

pull1D
Entries 78
Mean 0.1733
Std Dev 1.1

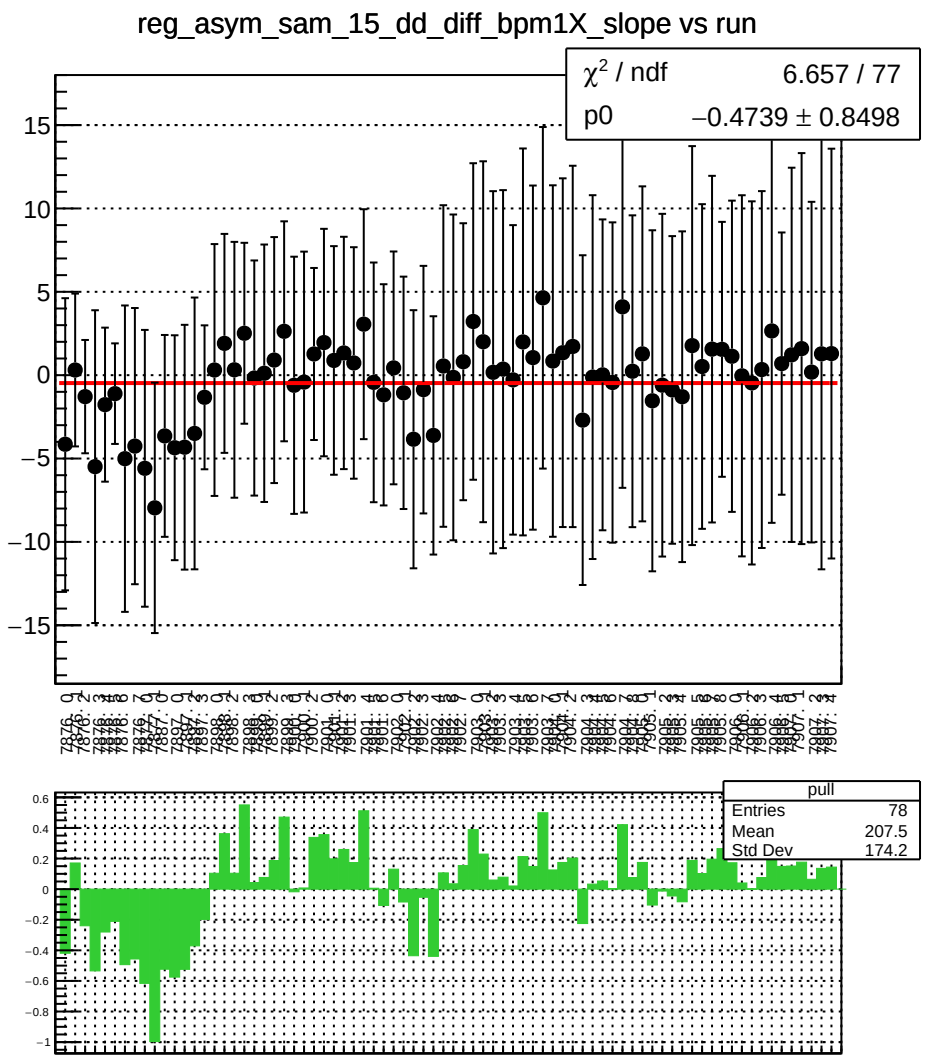

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 340.1 / 77
p0 −12.57 ± 0.3641
pull
Entries 78
Mean 86.1
Std Dev 51.9
pull1D
Entries 78
Mean −0.6779
Std Dev 1.465

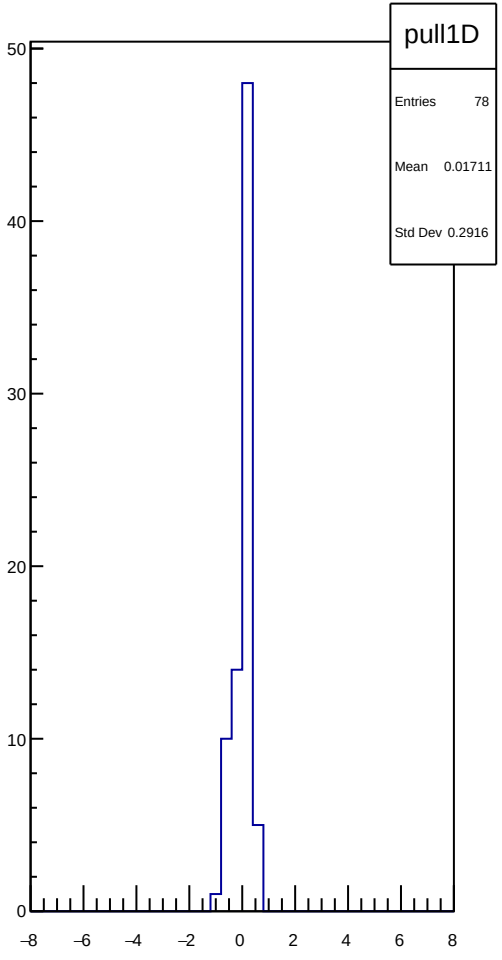

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 815 / 77
p0 22.53 ± 0.3794
pull
Entries 78
Mean 111.4
Std Dev 75.79
pull1D
Entries 78
Mean 1.227
Std Dev 0.8927

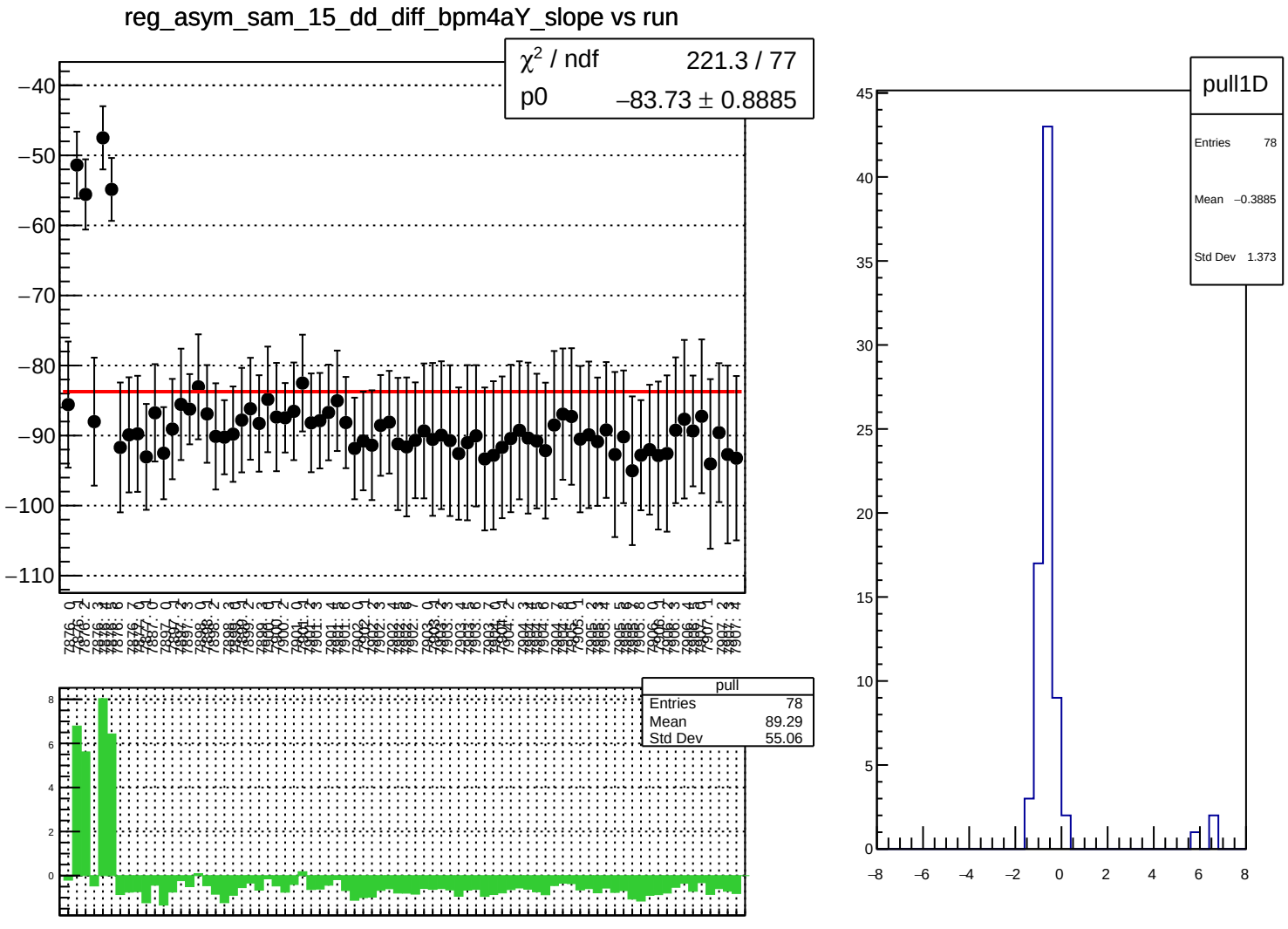

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 354.4 / 77
p0 8.77 ± 0.2999
pull
Entries 78
Mean 79.54
Std Dev 44.46
pull1D
Entries 78
Mean 0.7559
Std Dev 1.46

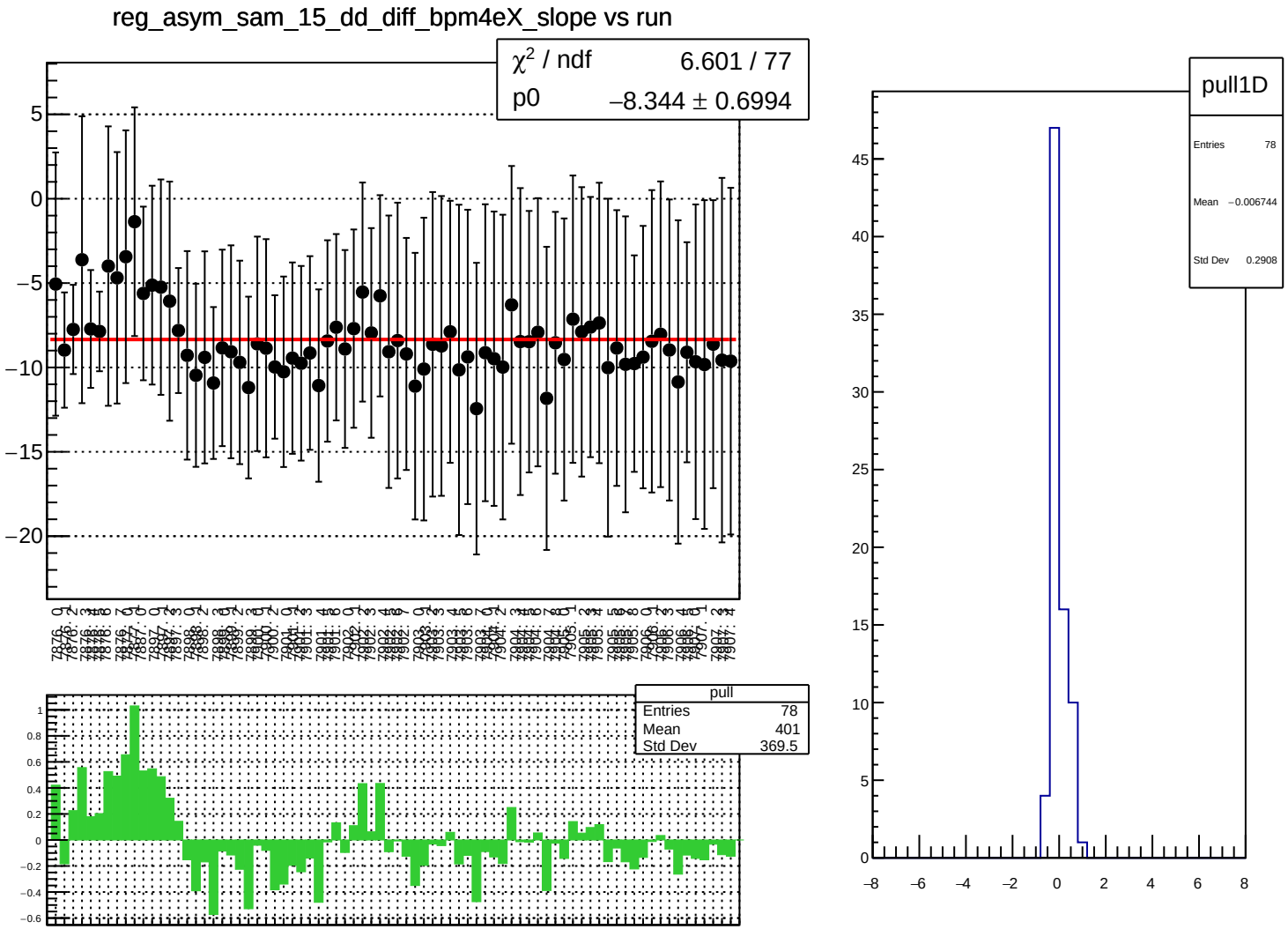

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 533.4 / 77
p0 27.65 ± 0.4511
pull
Entries 78
Mean 188.8
Std Dev 156
pull1D
Entries 78
Mean −0.7697
Std Dev 0.8139

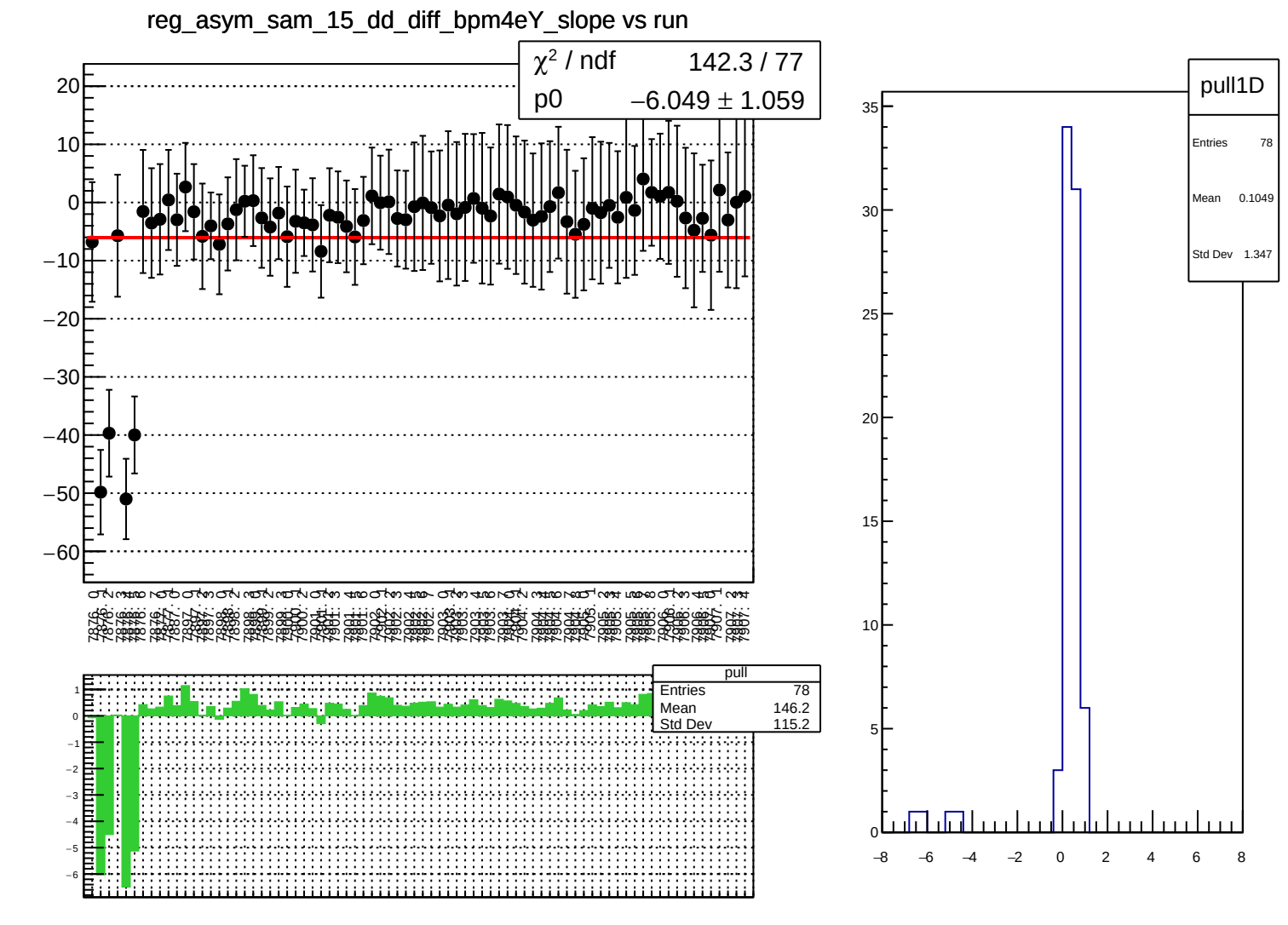

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 167.8 / 77
p0 −0.4241± 0.01422
pull
Entries 78
Mean 283
Std Dev 244.8
pull1D
Entries 78
Mean −0.1122
Std Dev 1.462

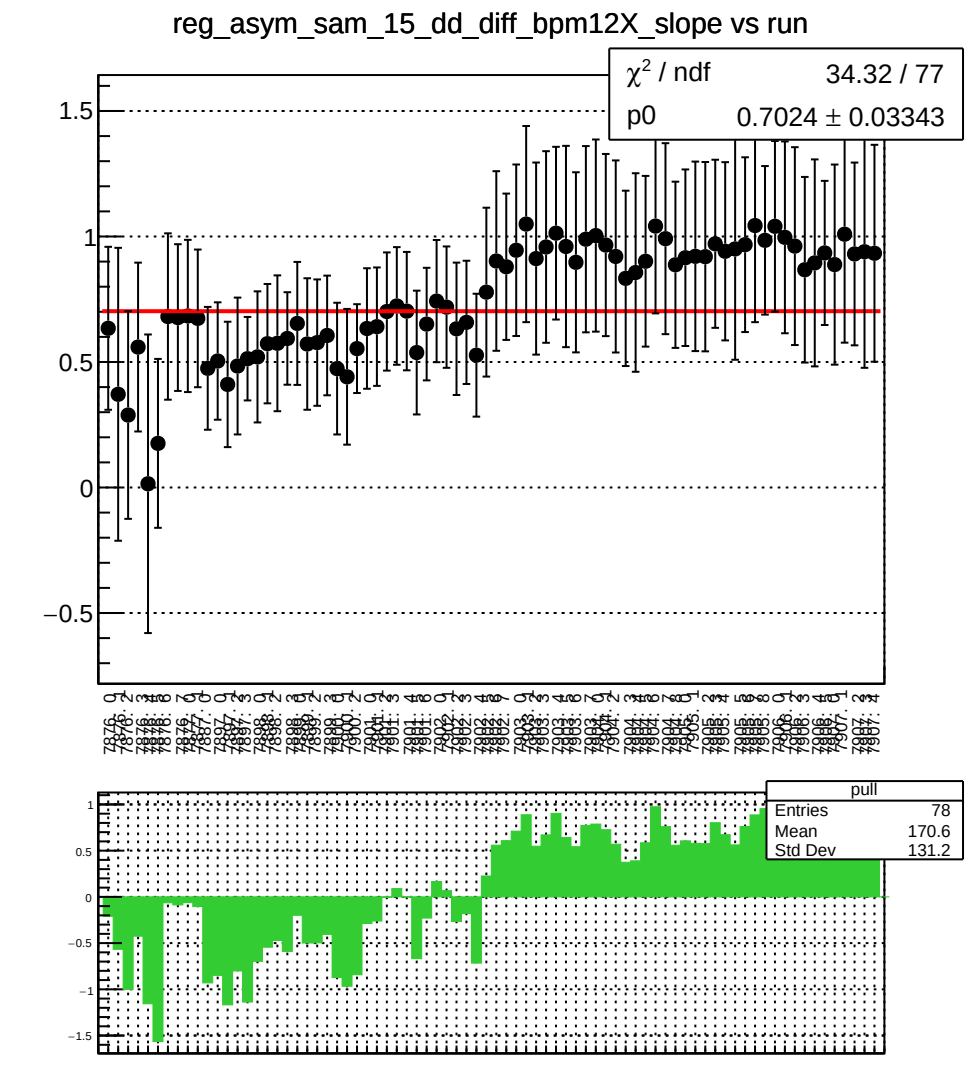

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 6.657 / 77
p0 −0.4739 ± 0.8498
pull
Entries 78
Mean 207.5
Std Dev 174.2

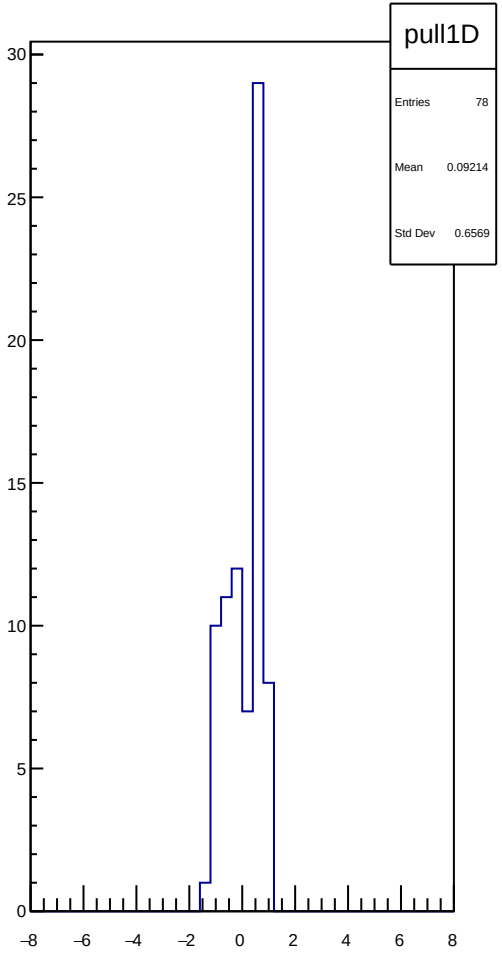

pull1D
Entries 78
Mean 0.01711
Std Dev 0.2916

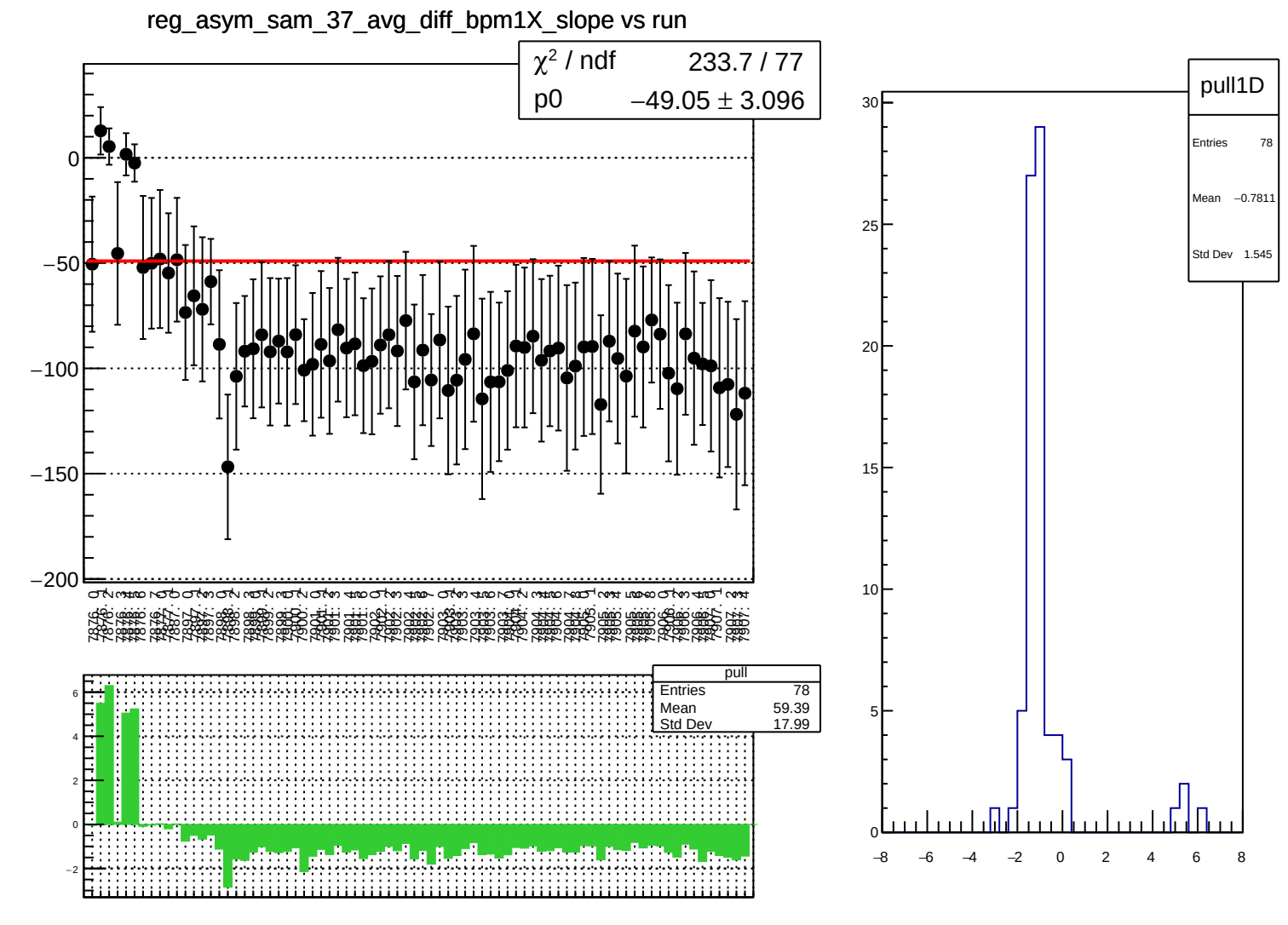

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 221.3 / 77
p0 −83.73 ± 0.8885
pull
Entries 78
Mean 89.29
Std Dev 55.06
pull1D
Entries 78
Mean −0.3885
Std Dev 1.373

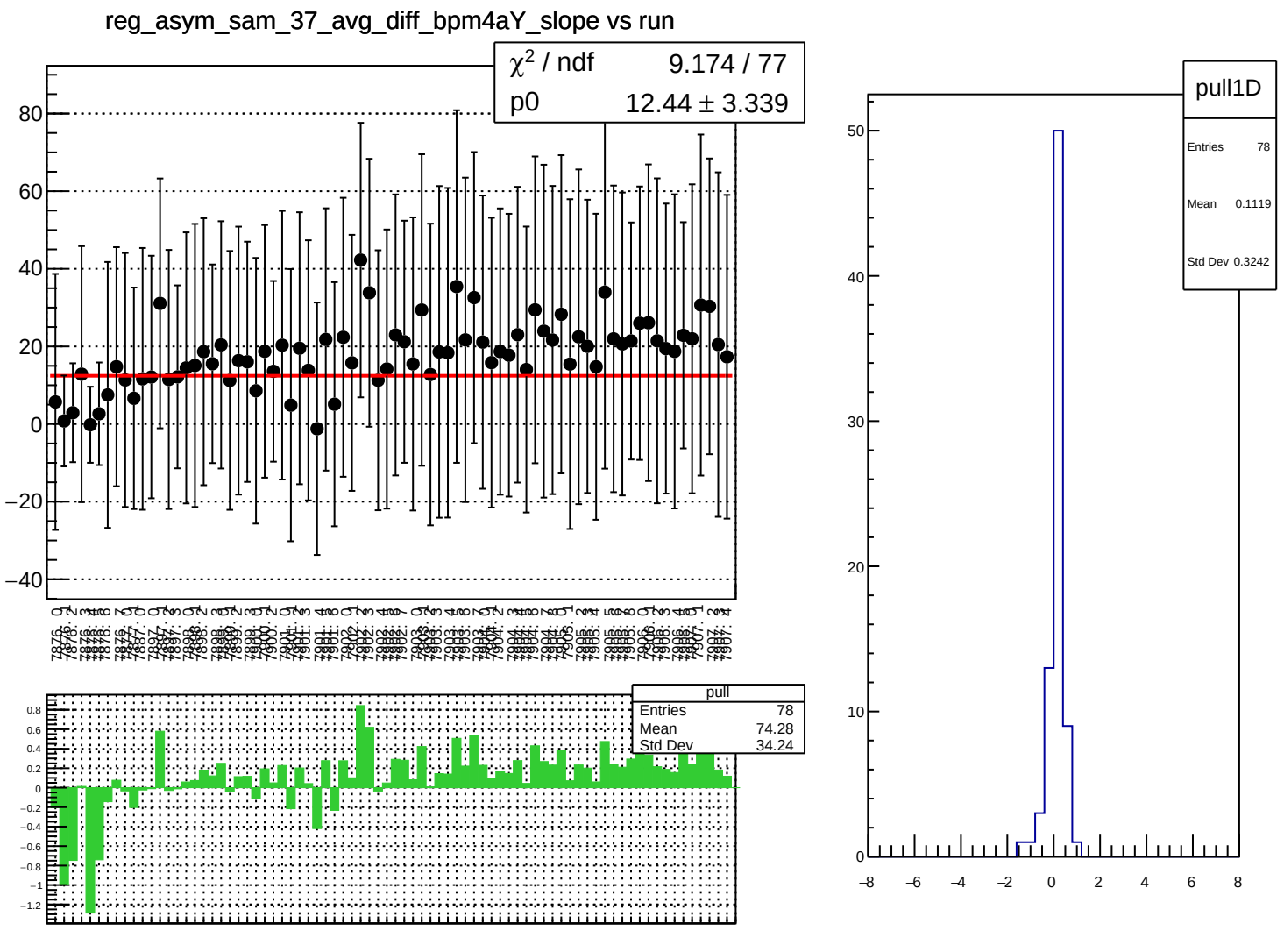

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.601 / 77
p0 −8.344 ± 0.6994
pull
Entries 78
Mean 401
Std Dev 369.5
pull1D
Entries 78
Mean −0.006744
Std Dev 0.2908

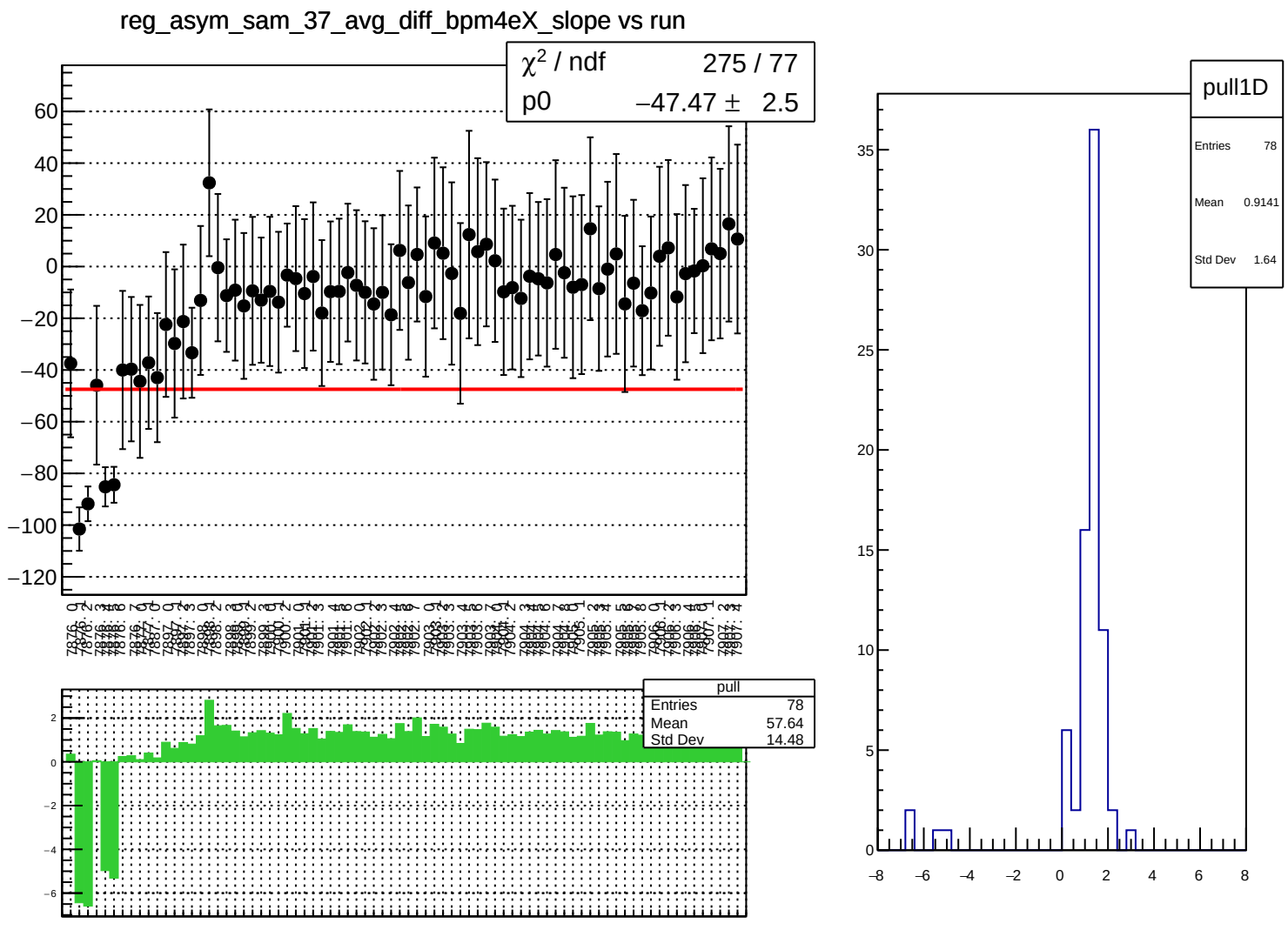

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 142.3 / 77
p0 −6.049 ± 1.059
pull
Entries 78
Mean 146.2
Std Dev 115.2
pull1D
Entries 78
Mean 0.1049
Std Dev 1.347

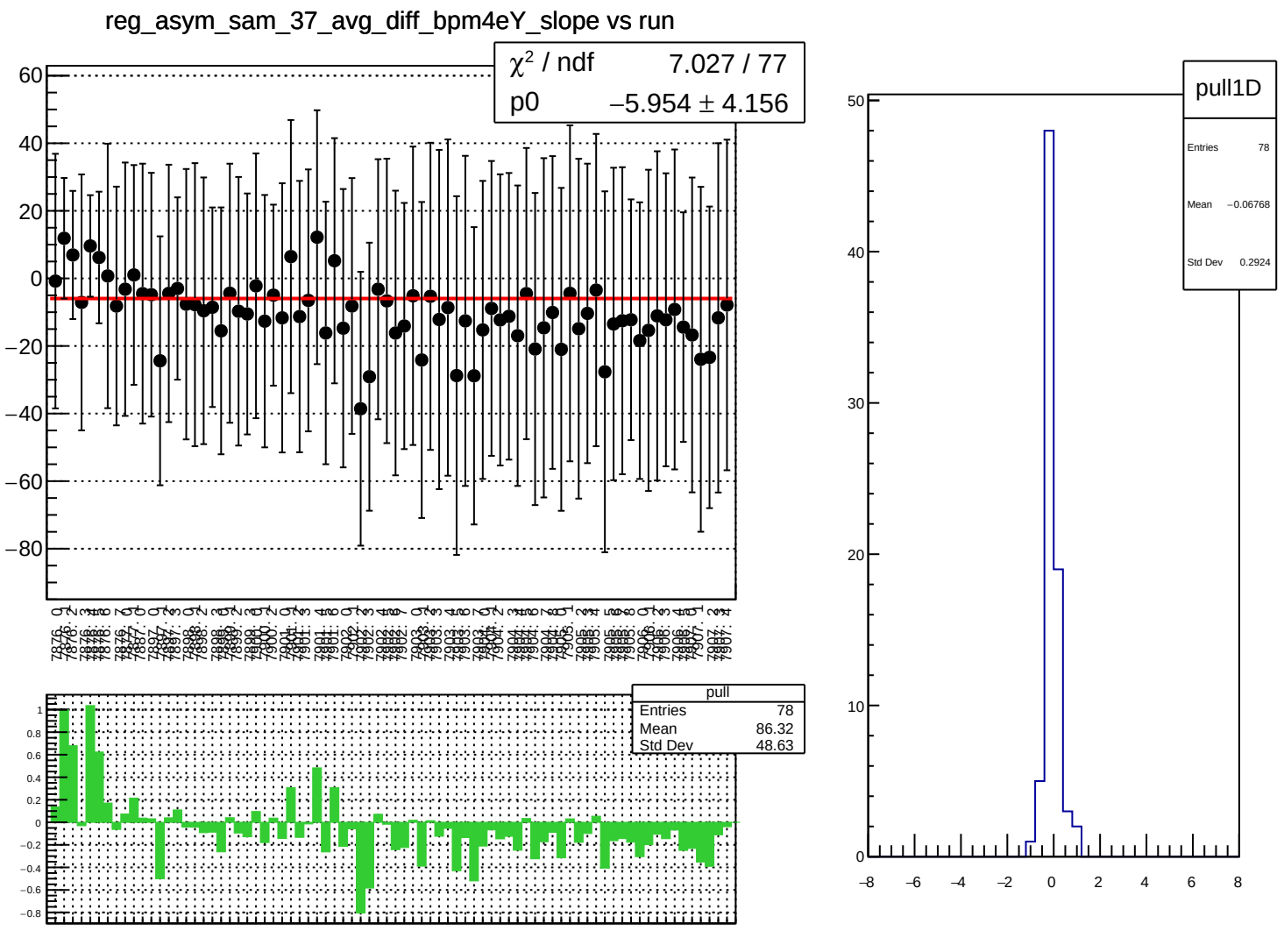

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 34.32 / 77
p0 0.7024 ± 0.03343
pull
Entries 78
Mean 170.6
Std Dev 131.2

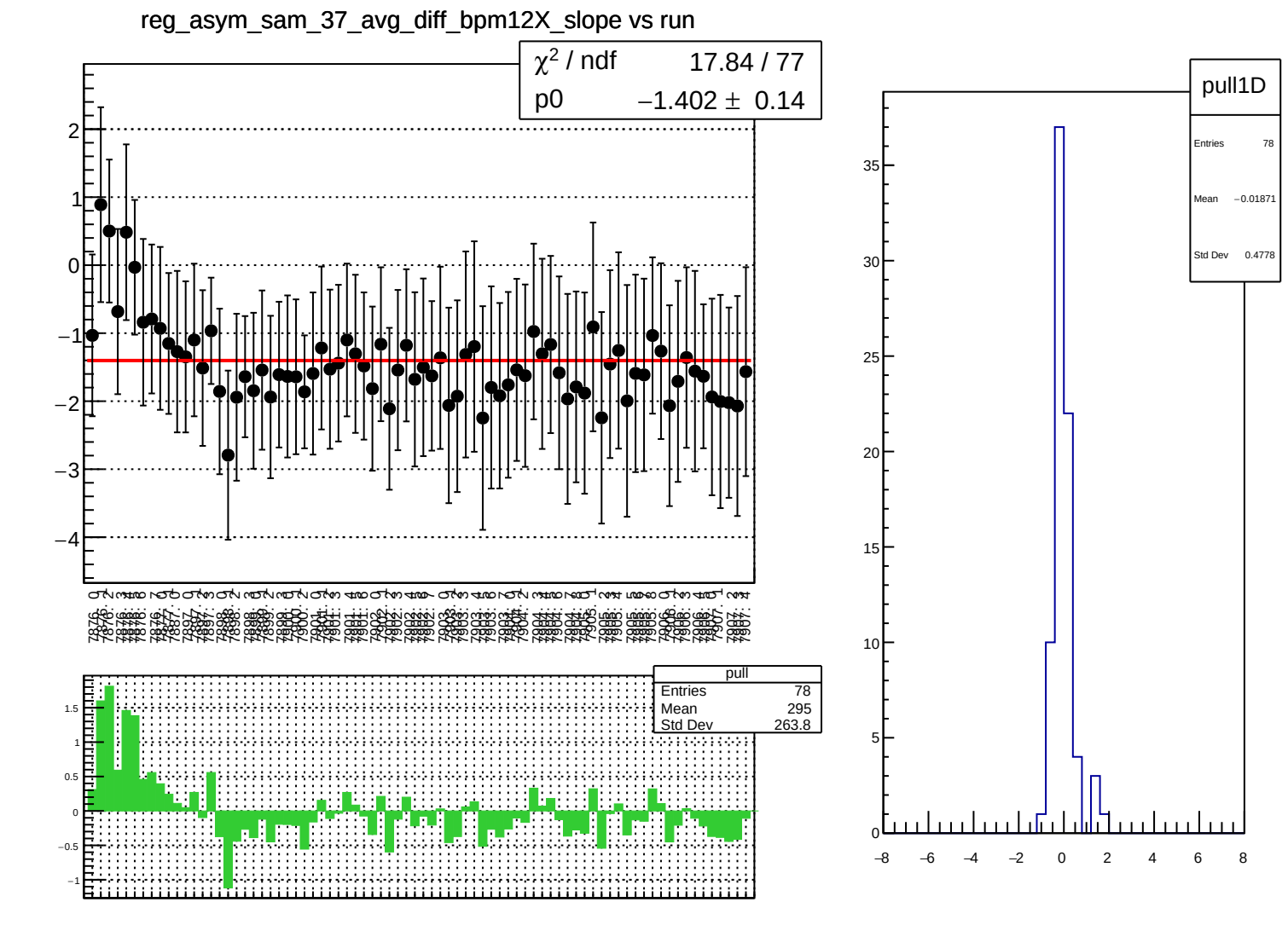

pull1D
Entries 78
Mean 0.09214
Std Dev 0.6569

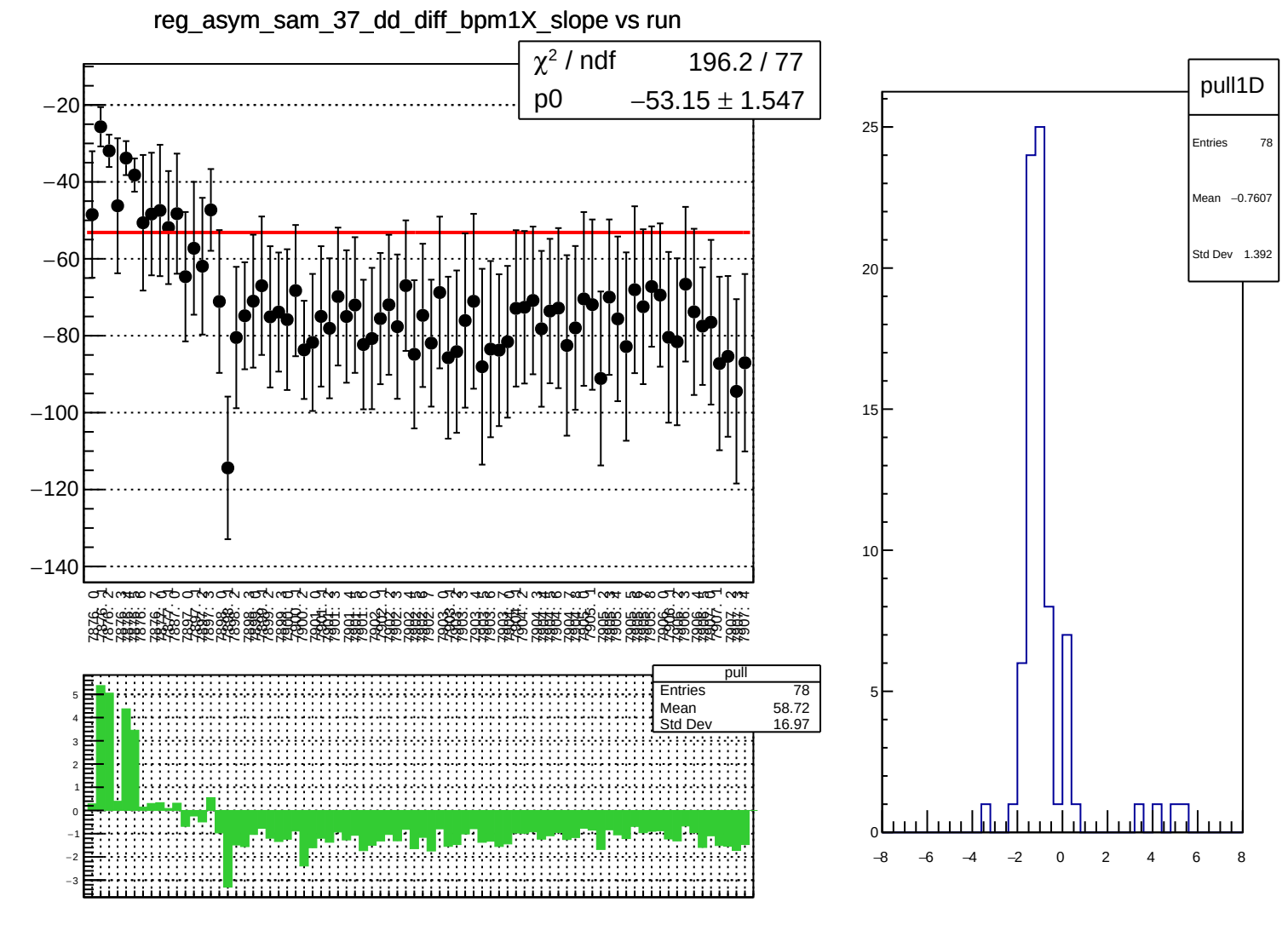

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 233.7 / 77
p0 −49.05 ± 3.096
0
−50
−100
−150
−200
pull
Entries 78
Mean 59.39
Std Dev 17.99
6
4
2
0
−2
pull1D
Entries 78
Mean −0.7811
Std Dev 1.545
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

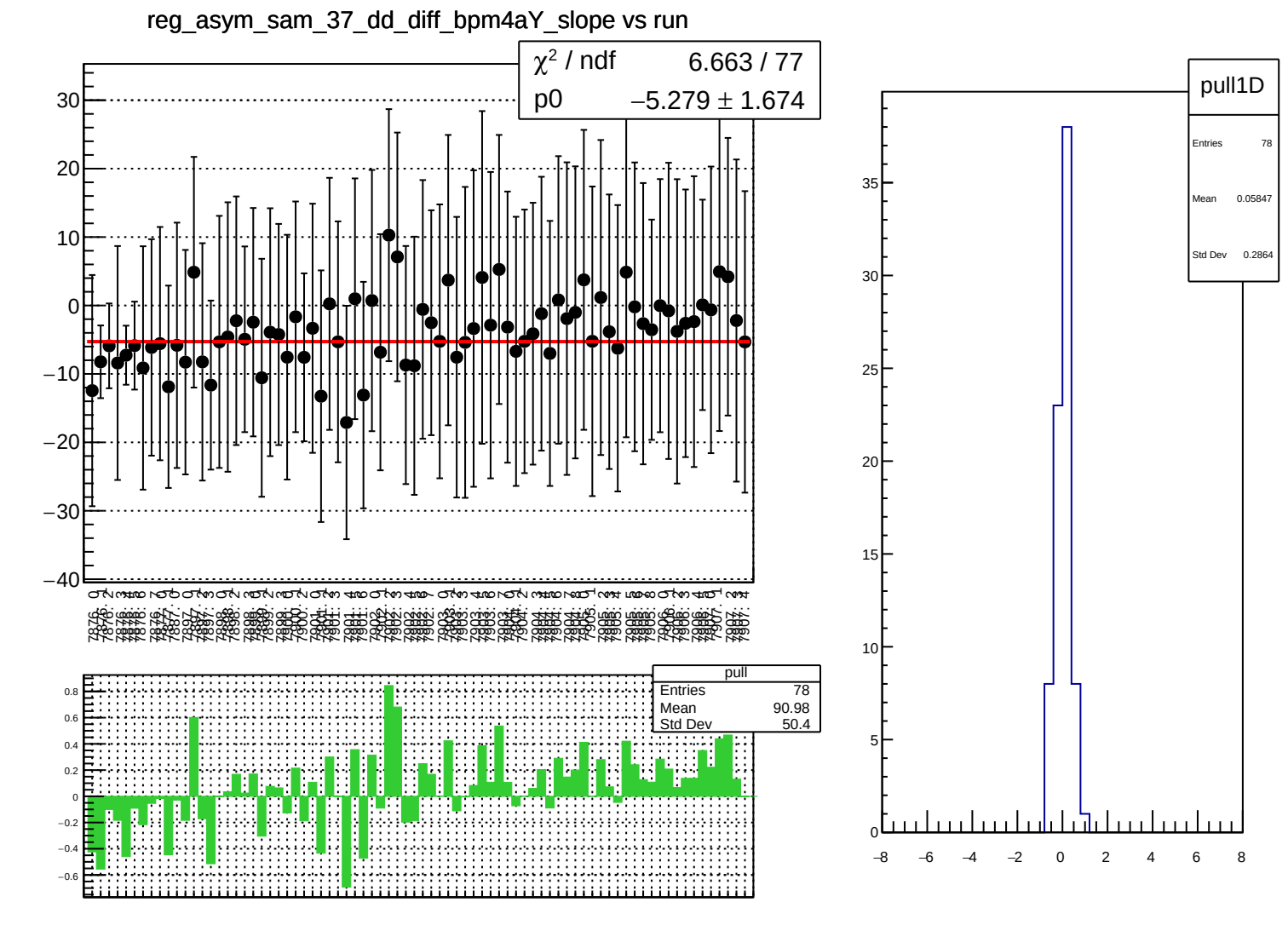

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.174 / 77
p0 12.44 ± 3.339
pull
Entries 78
Mean 74.28
Std Dev 34.24
pull1D
Entries 78
Mean 0.1119
Std Dev 0.3242

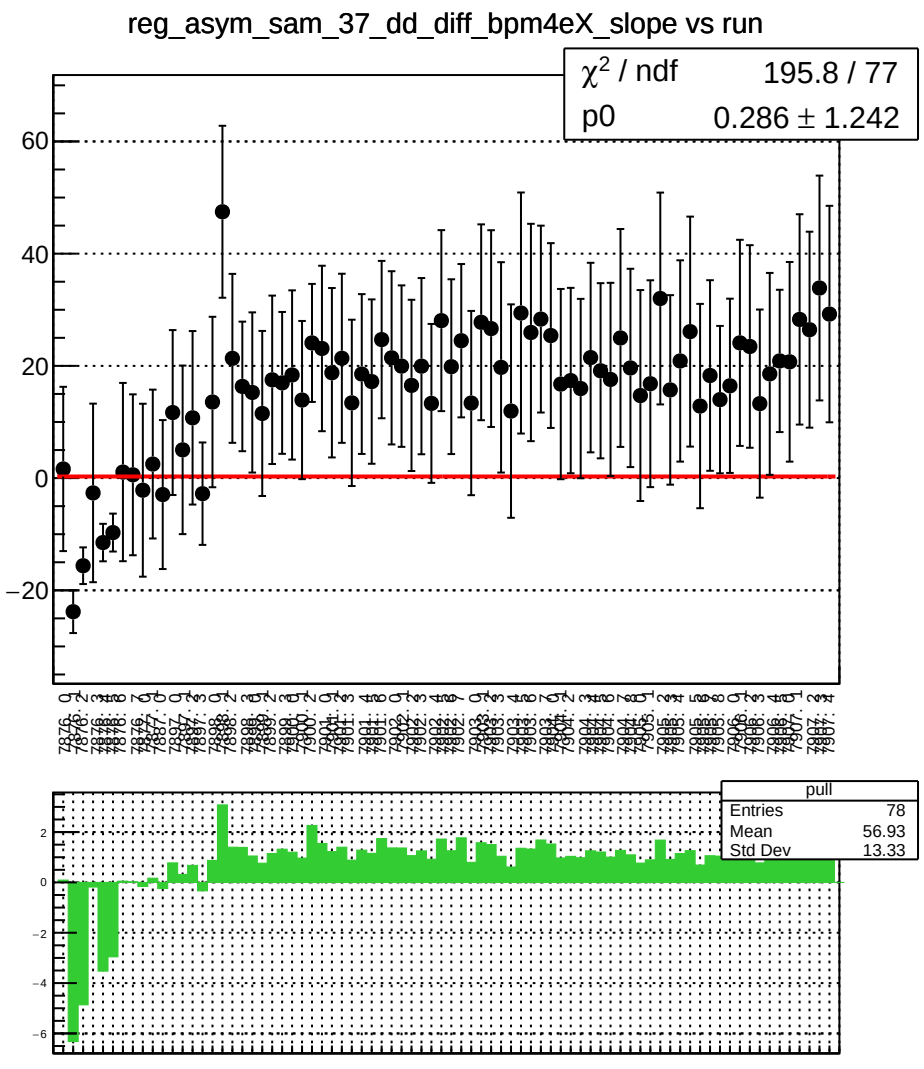

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 275 / 77
p0 −47.47 ± 2.5
pull
Entries 78
Mean 57.64
Std Dev 14.48
pull1D
Entries 78
Mean 0.9141
Std Dev 1.64

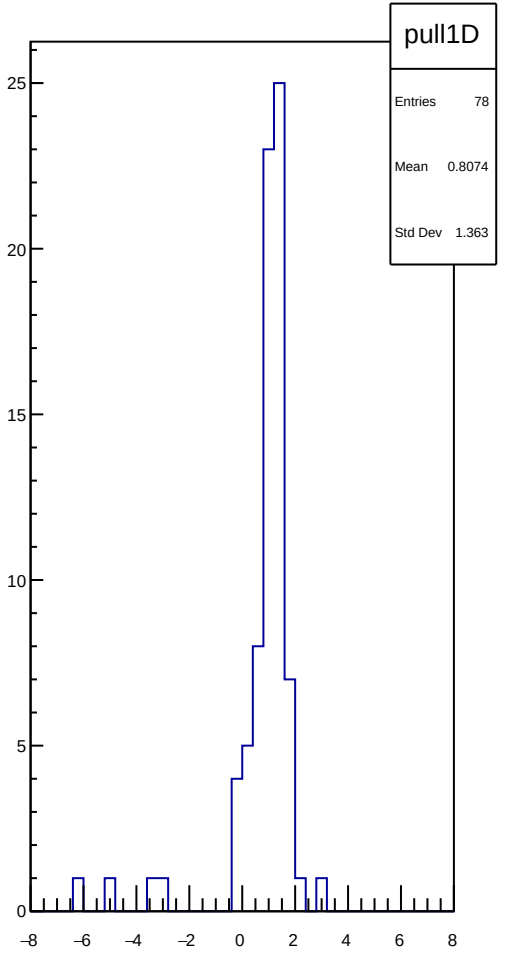

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.027 / 77
p0 −5.954 ± 4.156
pull
Entries 78
Mean 86.32
Std Dev 48.63
pull1D
Entries 78
Mean −0.06768
Std Dev 0.2924

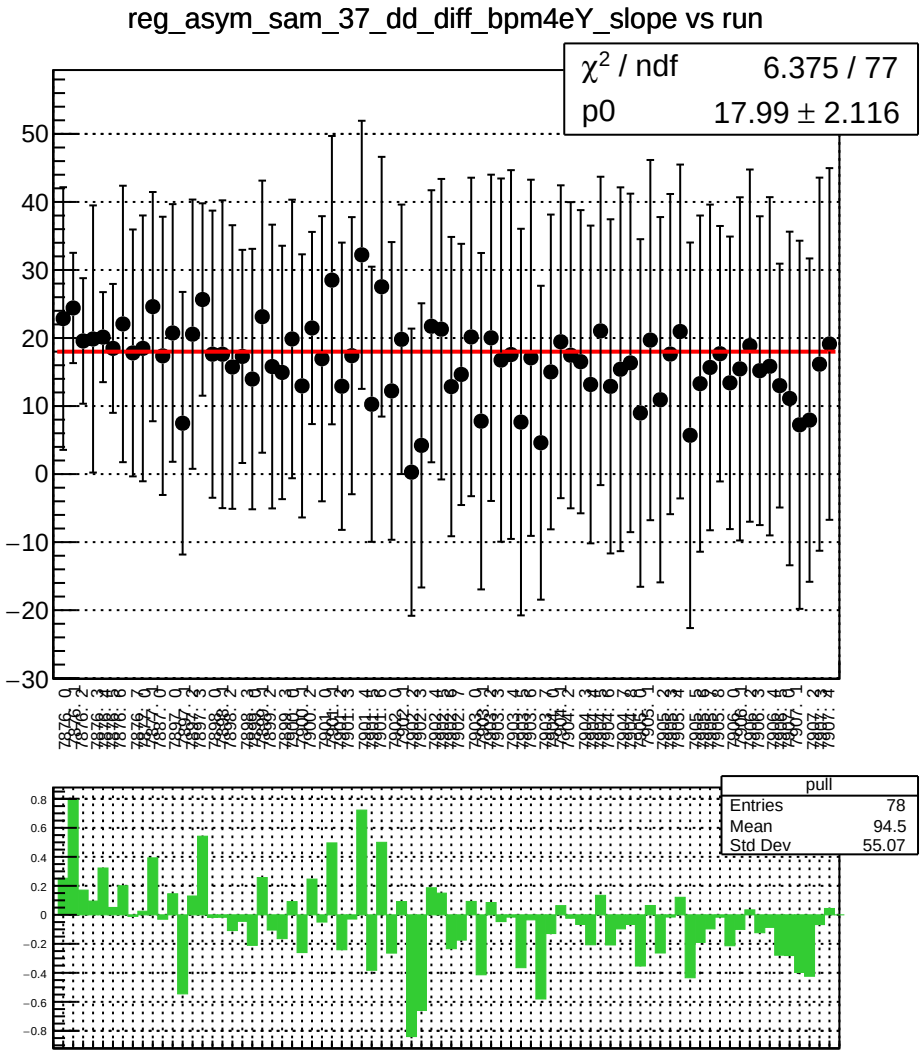

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 17.84 / 77
p0 −1.402 ± 0.14
pull
Entries 78
Mean 295
Std Dev 263.8
pull1D
Entries 78
Mean −0.01871
Std Dev 0.4778

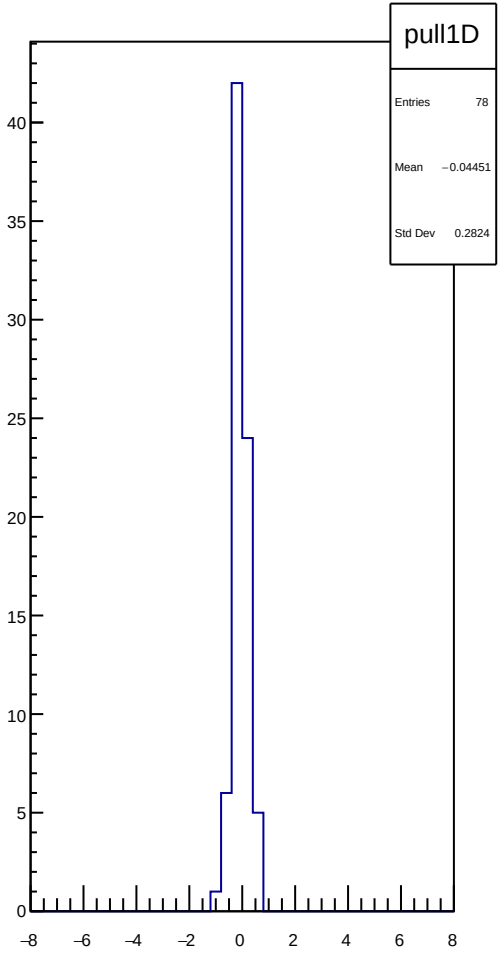

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 196.2 / 77
p0 −53.15 ± 1.547
pull
Entries 78
Mean 58.72
Std Dev 16.97
pull1D
Entries 78
Mean −0.7607
Std Dev 1.392

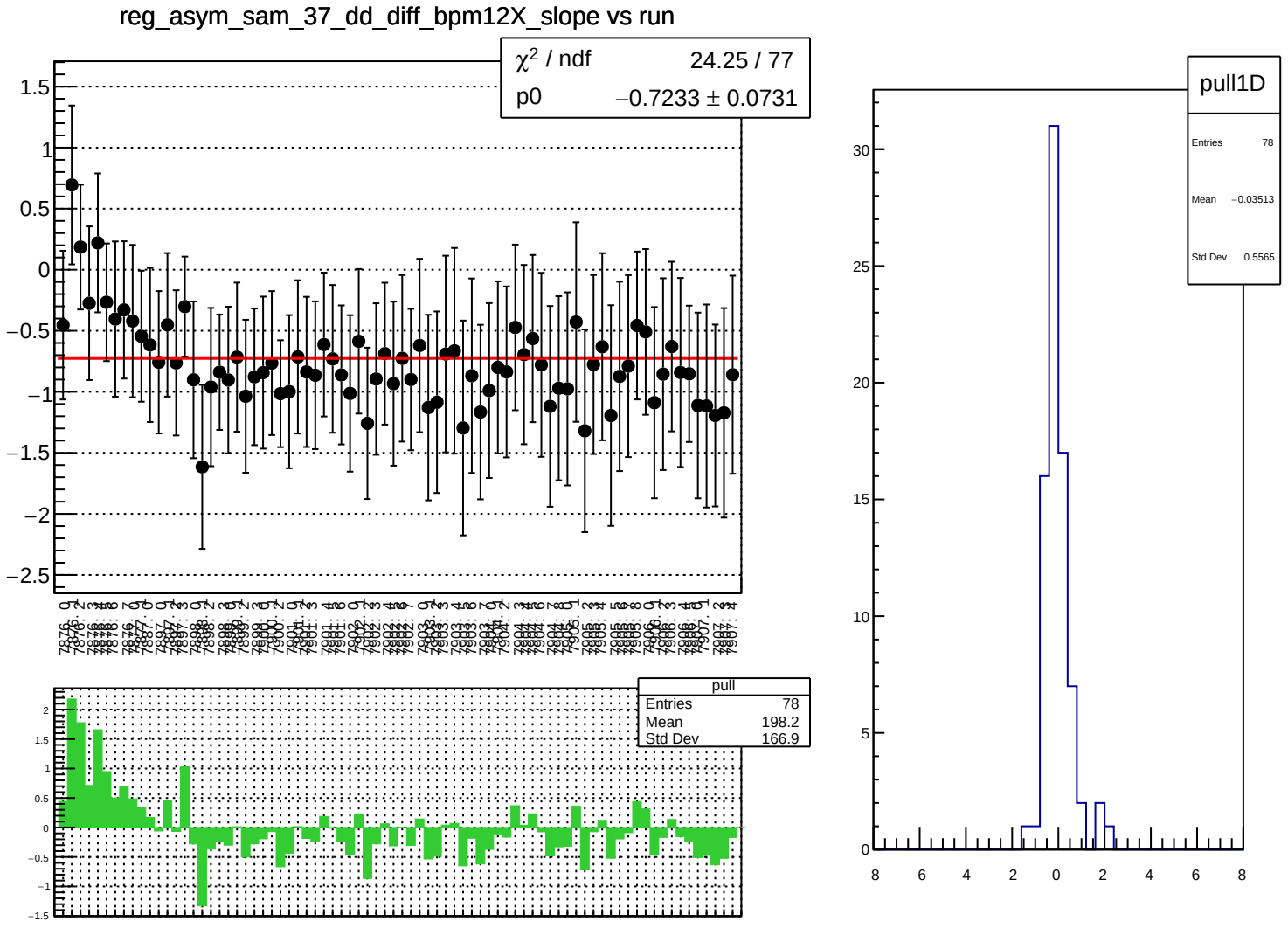

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.663 / 77
p0 −5.279 ± 1.674
pull
Entries 78
Mean 90.98
Std Dev 50.4
pull1D
Entries 78
Mean 0.05847
Std Dev 0.2864

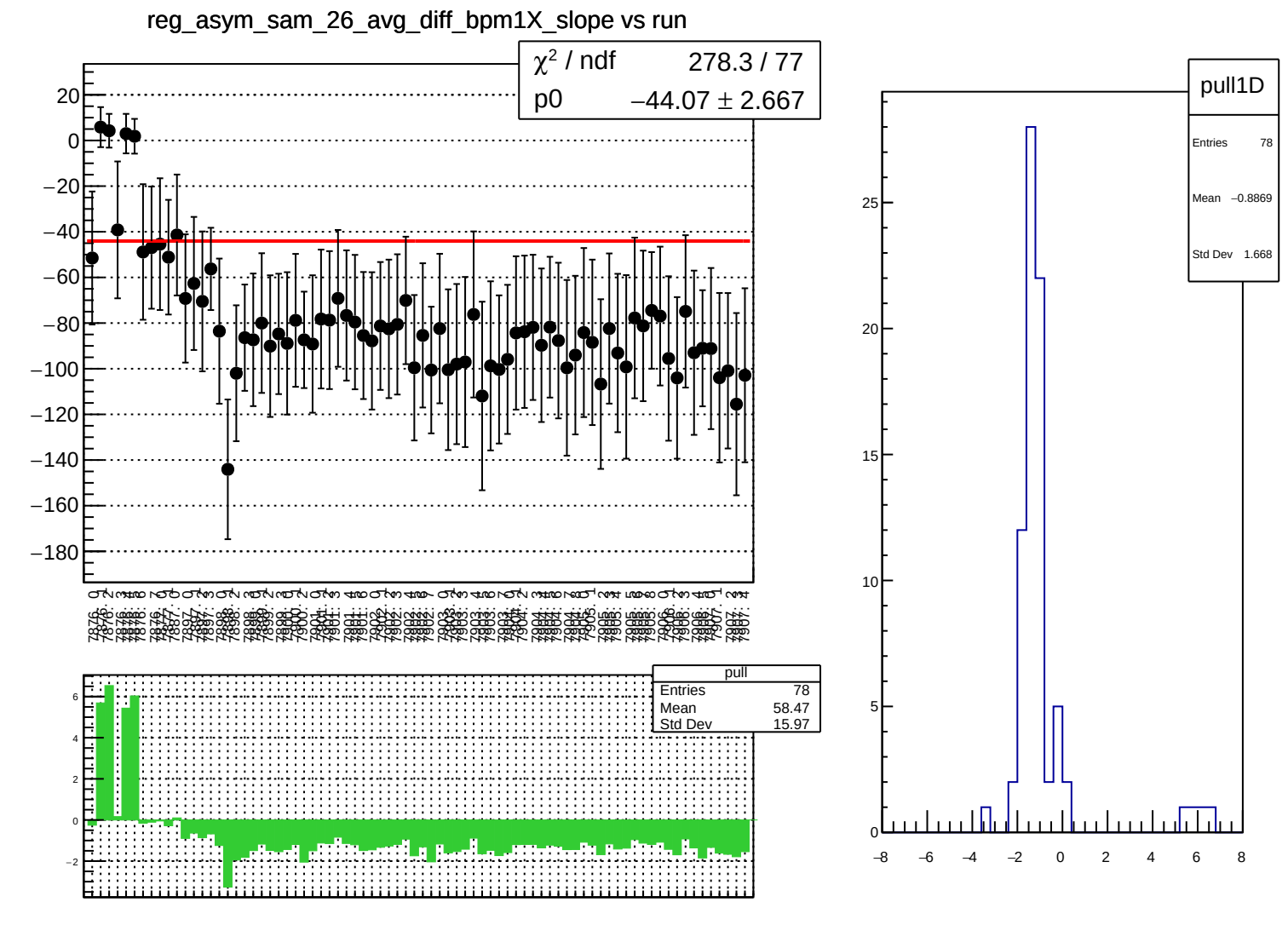

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 195.8 / 77
p0 0.286 ± 1.242
pull
Entries 78
Mean 56.93
Std Dev 13.33

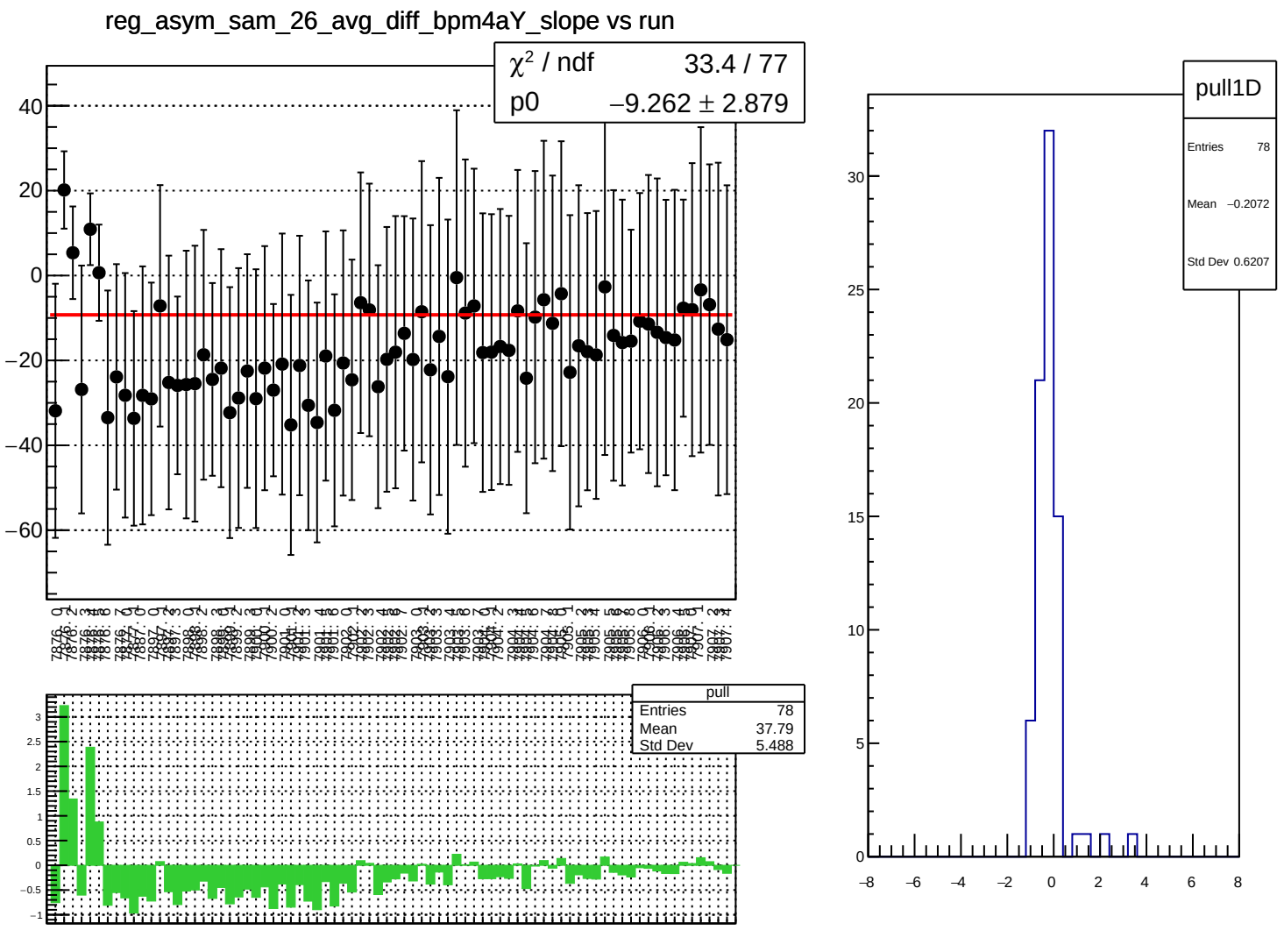

pull1D
Entries 78
Mean 0.8074
Std Dev 1.363

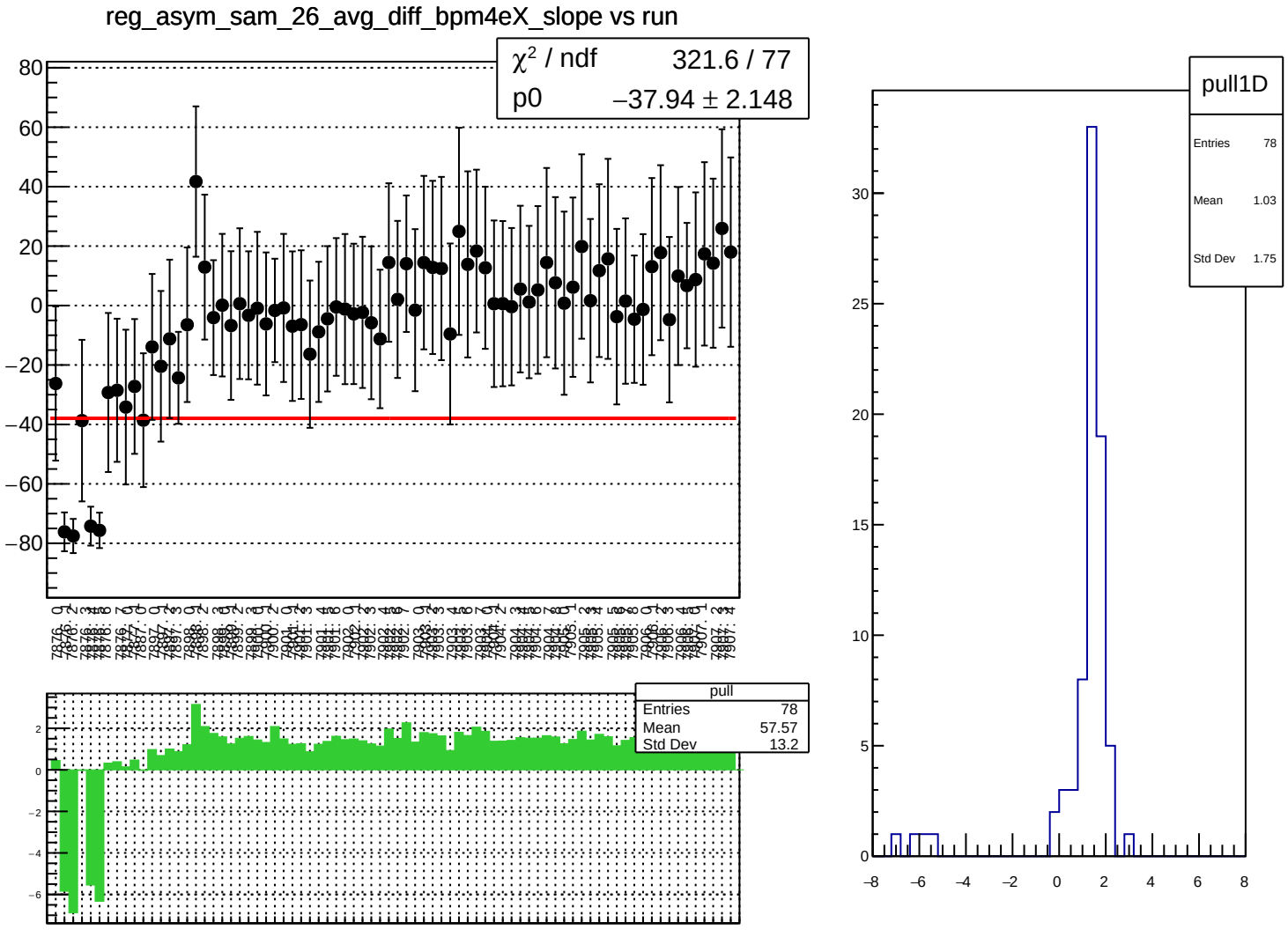

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.375 / 77
p0 17.99 ± 2.116
pull
Entries 78
Mean 94.5
Std Dev 55.07

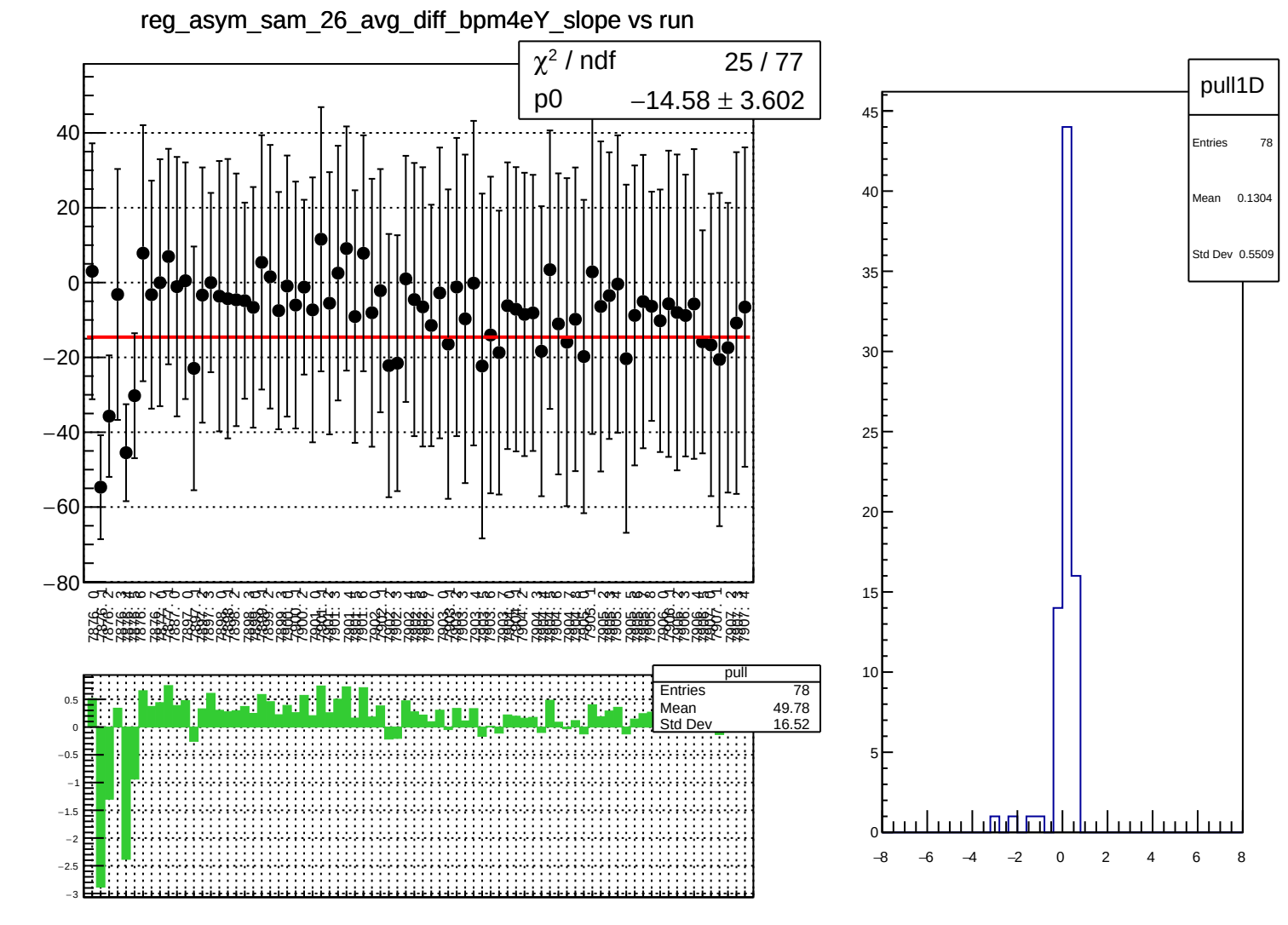

pull1D
Entries 78
Mean −0.04451
Std Dev 0.2824

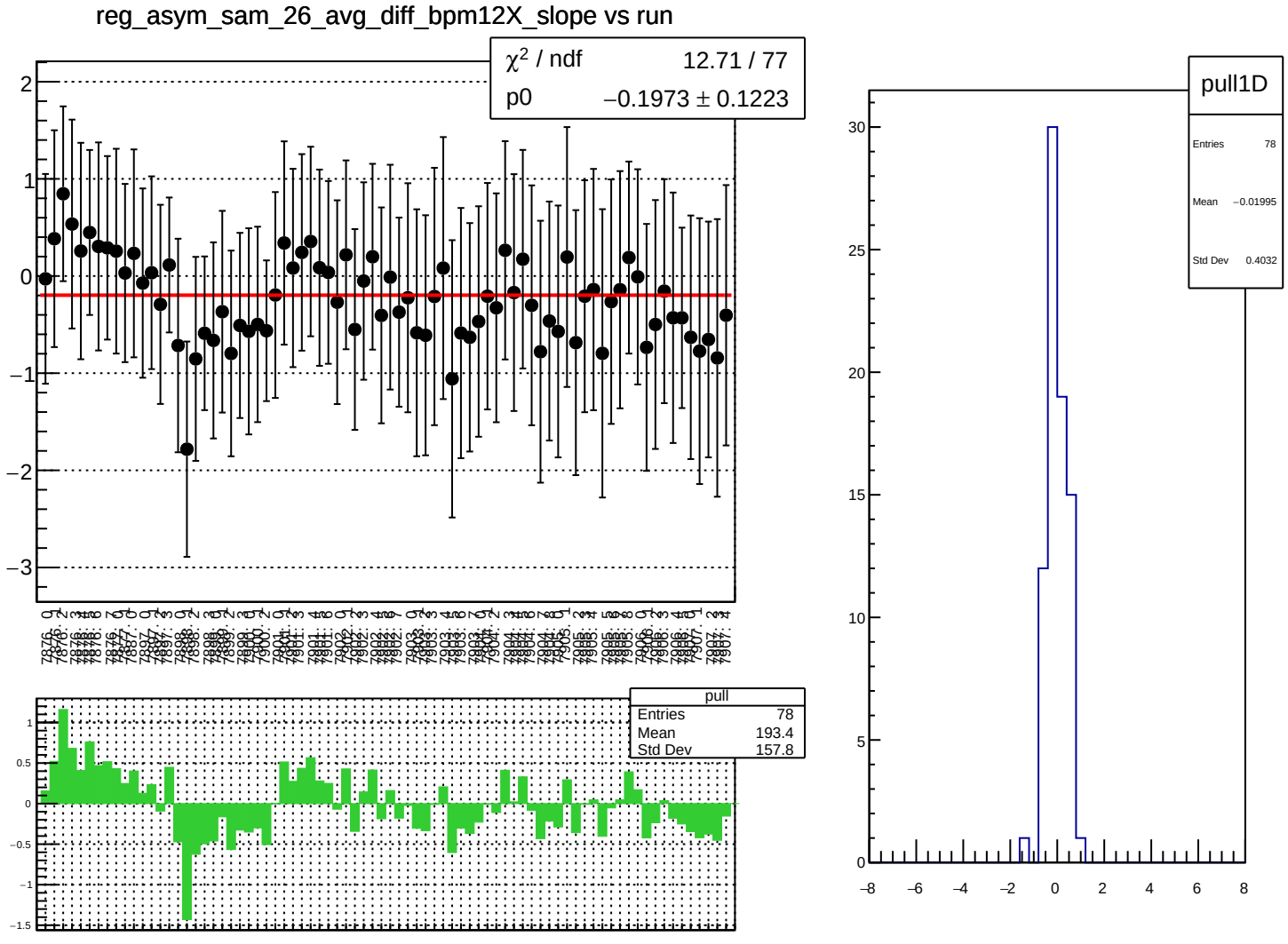

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 24.25 / 77
p0 −0.7233 ± 0.0731
pull
Entries 78
Mean 198.2
Std Dev 166.9
pull1D
Entries 78
Mean −0.03513
Std Dev 0.5565

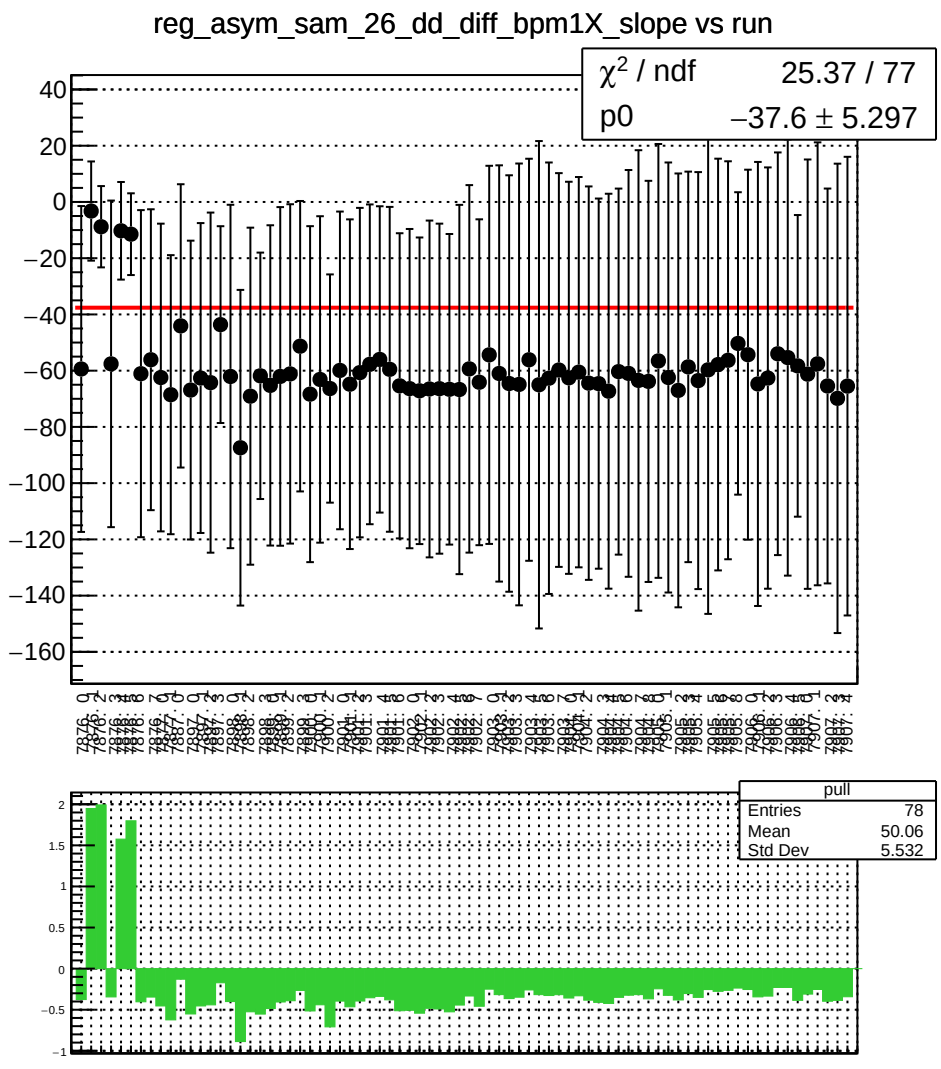

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 278.3 / 77
p0 −44.07 ± 2.667
pull
Entries 78
Mean 58.47
Std Dev 15.97
pull1D
Entries 78
Mean −0.8869
Std Dev 1.668

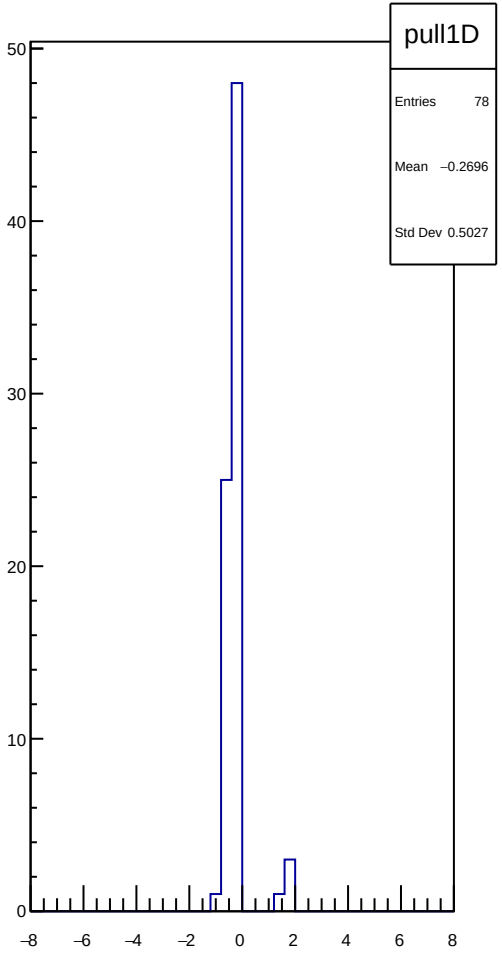

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.4 / 77
p0 −9.262 ± 2.879
pull
Entries 78
Mean 37.79
Std Dev 5.488
pull1D
Entries 78
Mean −0.2072
Std Dev 0.6207

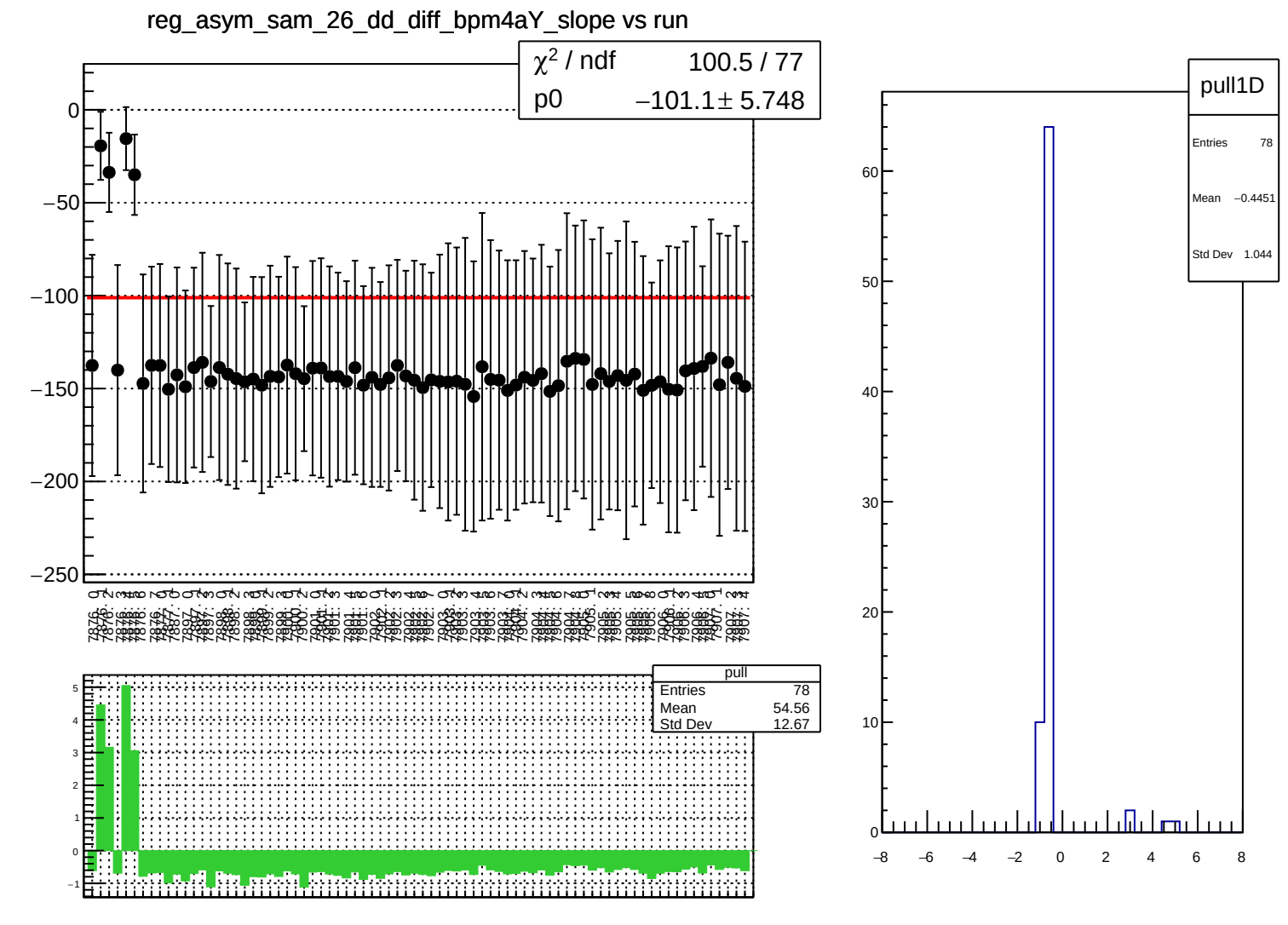

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 321.6 / 77
p0 −37.94 ± 2.148
pull
Entries 78
Mean 57.57
Std Dev 13.2
pull1D
Entries 78
Mean 1.03
Std Dev 1.75

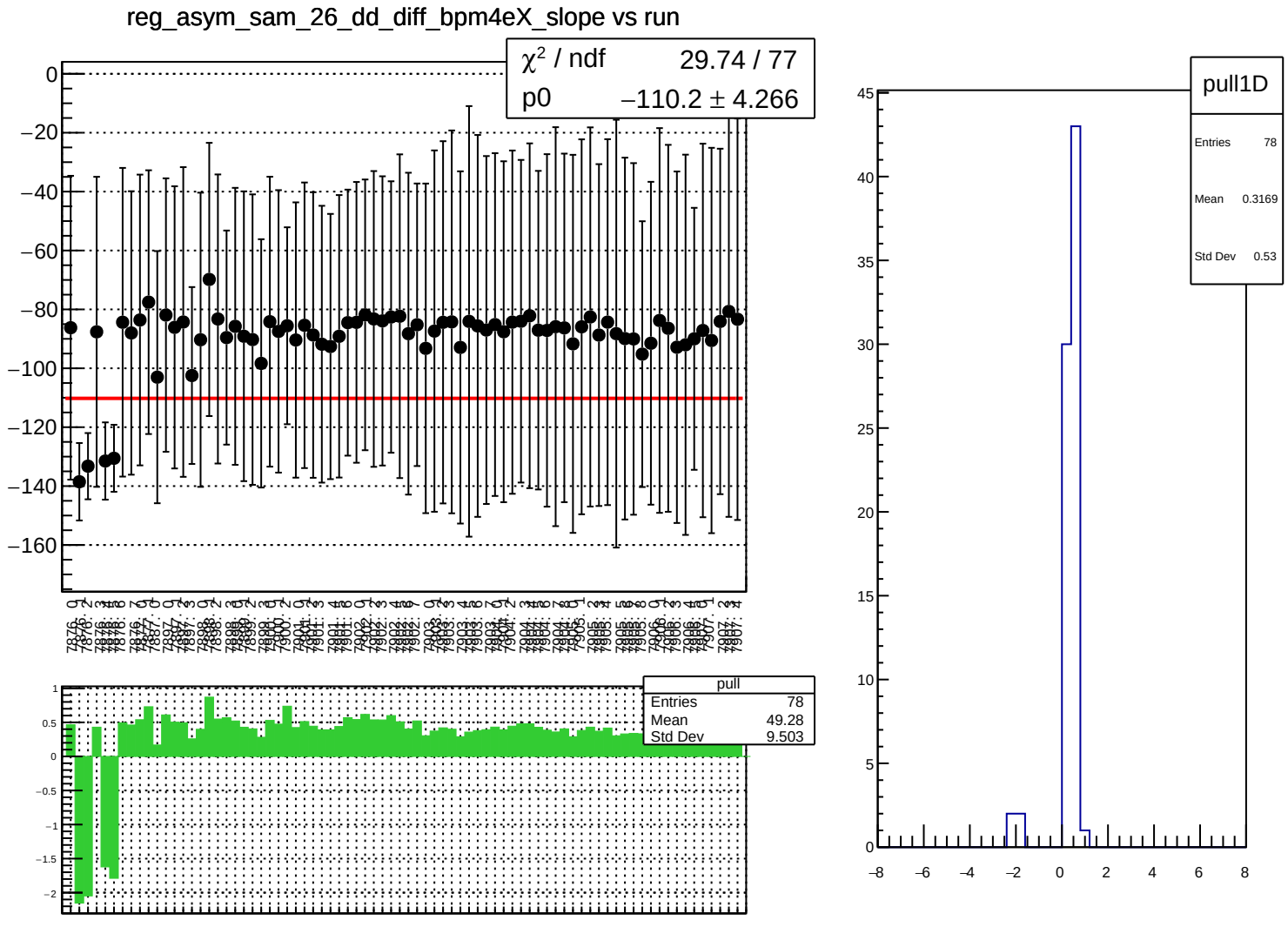

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 25 / 77
p0 −14.58 ± 3.602
pull
Entries 78
Mean 49.78
Std Dev 16.52
pull1D
Entries 78
Mean 0.1304
Std Dev 0.5509

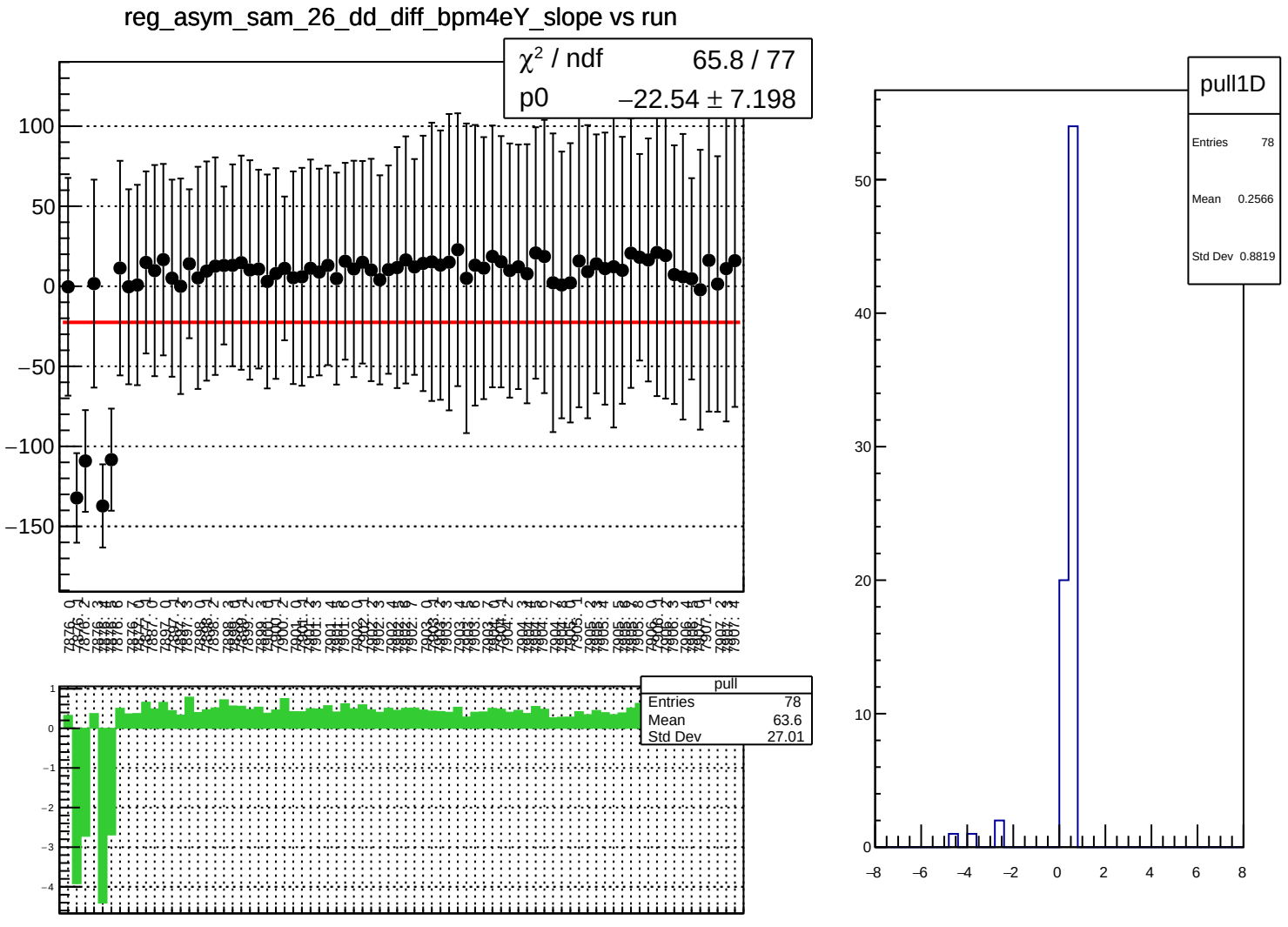

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 12.71 / 77
p0 −0.1973 ± 0.1223
pull
Entries 78
Mean 193.4
Std Dev 157.8
pull1D
Entries 78
Mean −0.01995
Std Dev 0.4032

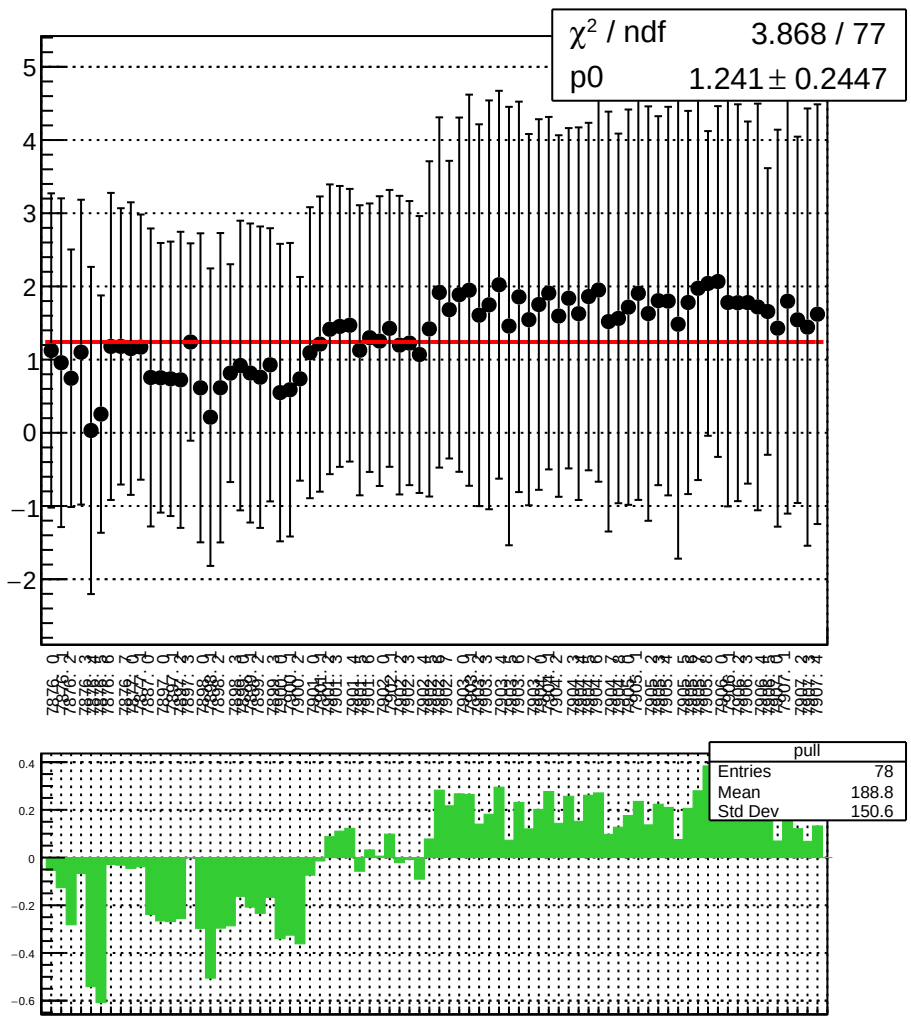

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 25.37 / 77
p0 −37.6 ± 5.297
pull
Entries 78
Mean 50.06
Std Dev 5.532

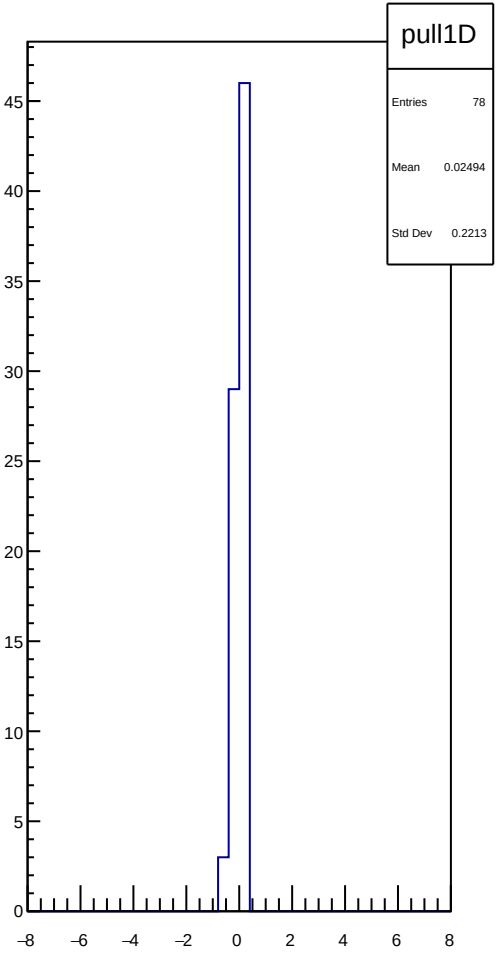

pull1D
Entries 78
Mean −0.2696
Std Dev 0.5027

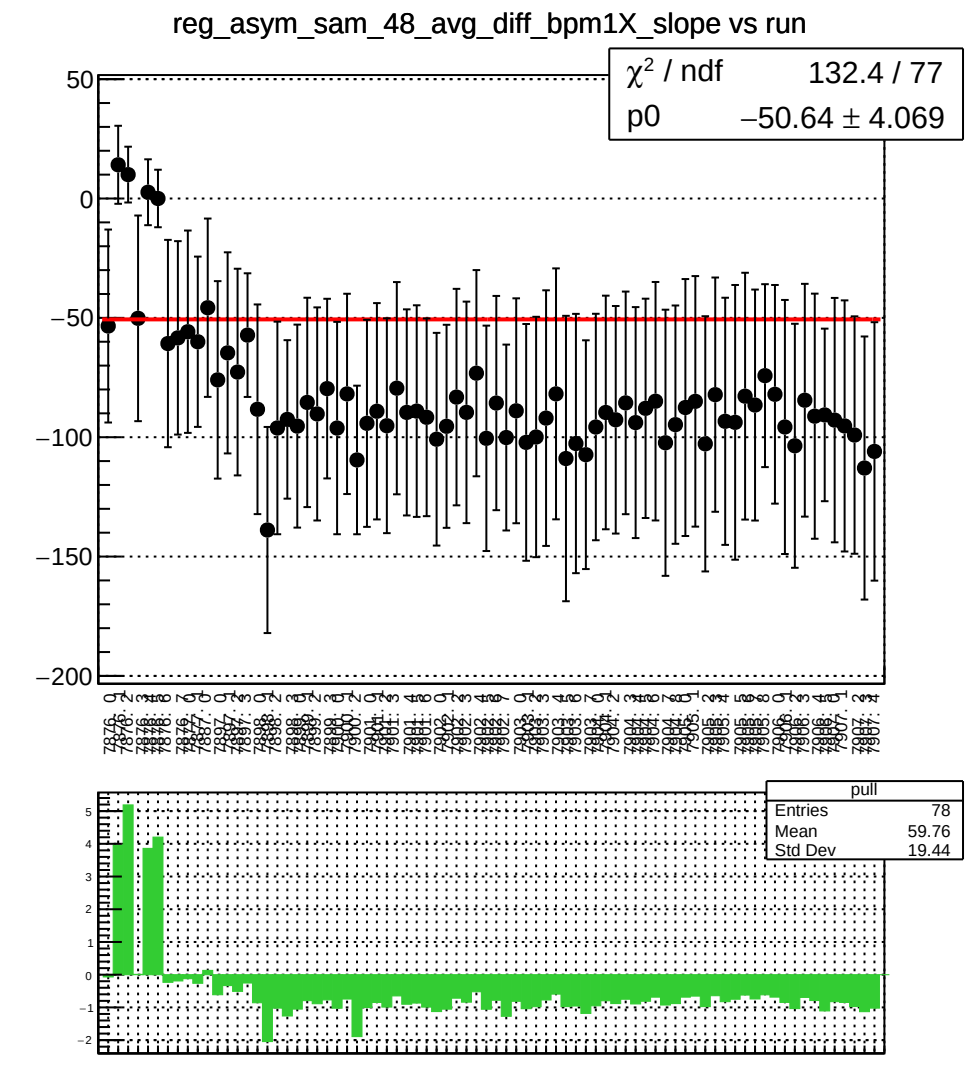

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 100.5 / 77
p0 −101.1 ± 5.748
pull
Entries 78
Mean 54.56
Std Dev 12.67
pull1D
Entries 78
Mean −0.4451
Std Dev 1.044

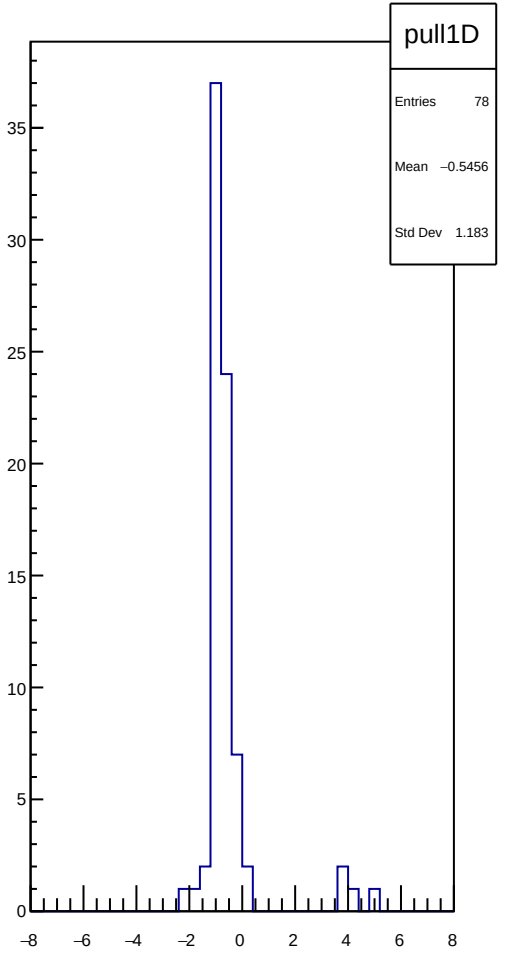

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.74 / 77
p0 −110.2 ± 4.266
pull
Entries 78
Mean 49.28
Std Dev 9.503
pull1D
Entries 78
Mean 0.3169
Std Dev 0.53

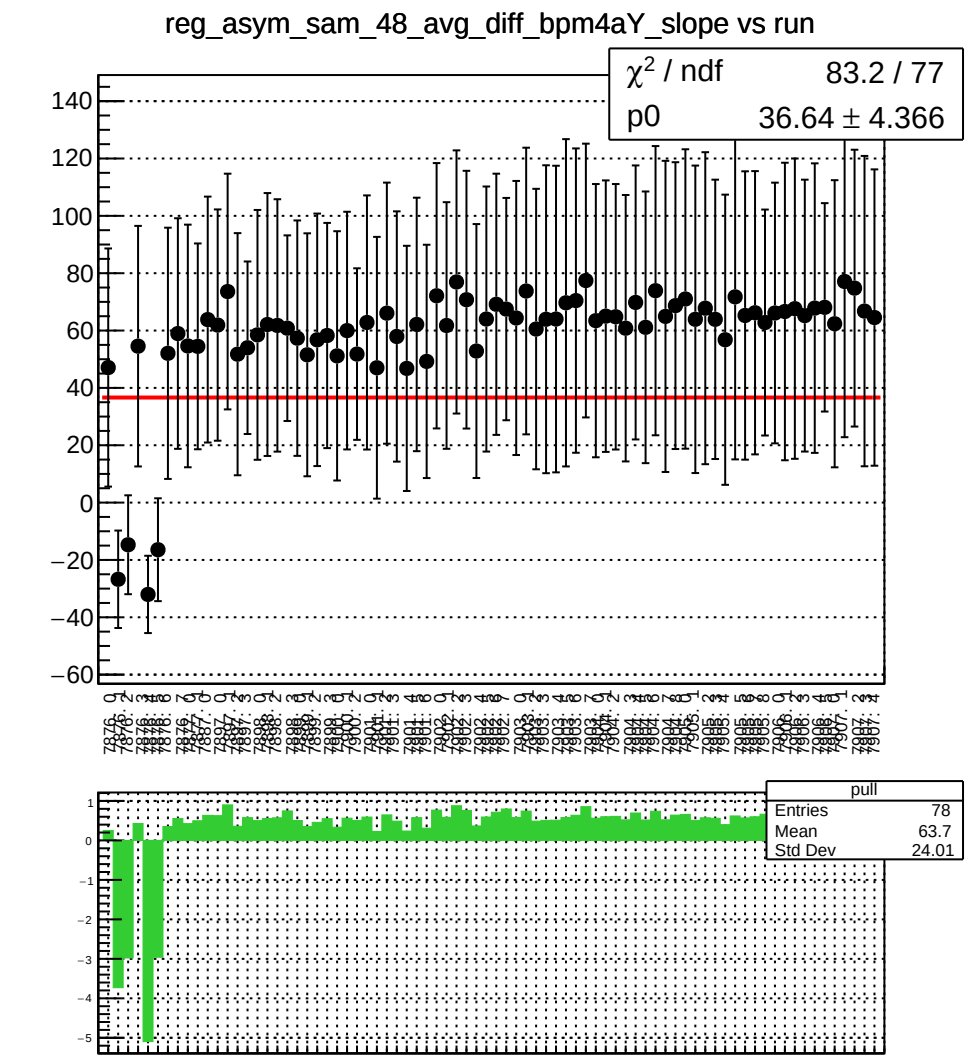

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.8 / 77
p0 −22.54 ± 7.198
100
50
0
−50
−100
−150
pull
Entries 78
Mean 63.6
Std Dev 27.01
1
0
−1
−2
−3
−4
pull1D
Entries 78
Mean 0.2566
Std Dev 0.8819
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

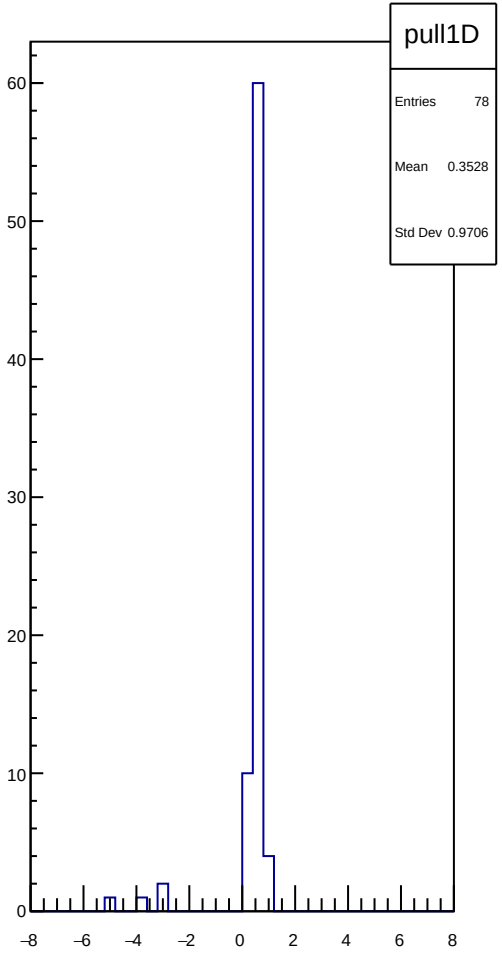

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 3.868 / 77
p0 1.241 ± 0.2447
pull
Entries 78
Mean 188.8
Std Dev 150.6

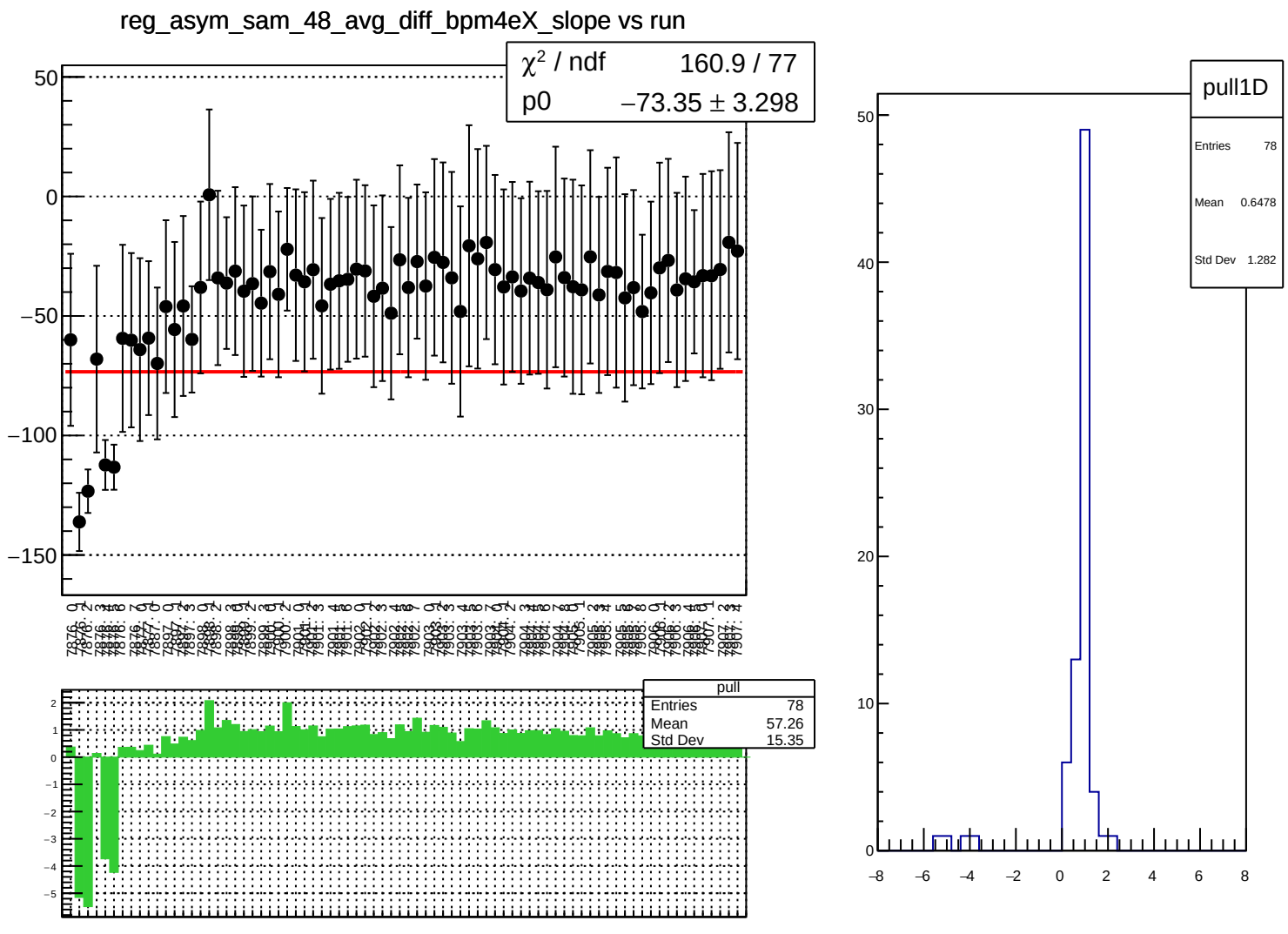

pull1D
Entries 78
Mean 0.02494
Std Dev 0.2213

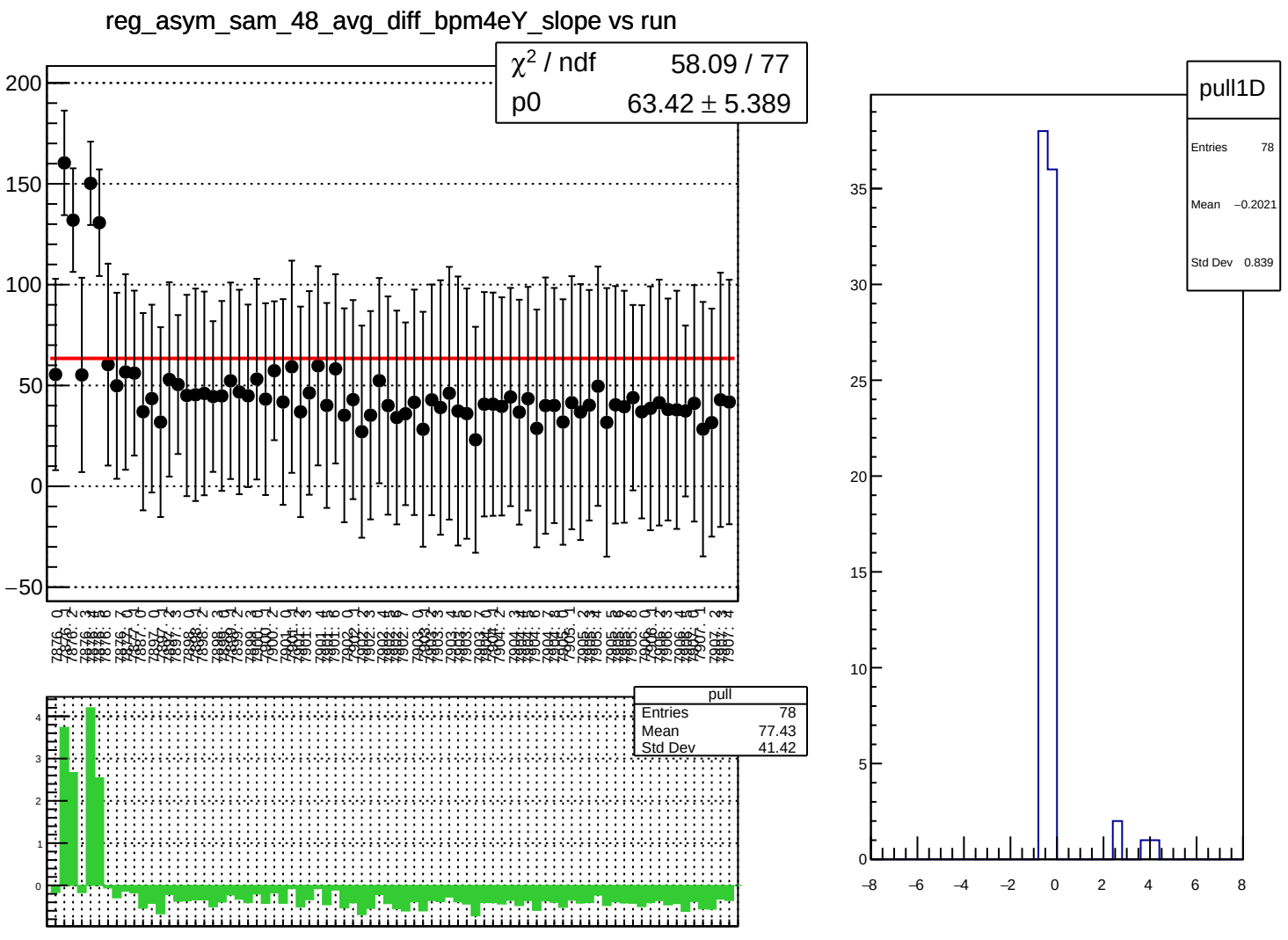

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 132.4 / 77
p0 −50.64 ± 4.069
pull
Entries 78
Mean 59.76
Std Dev 19.44

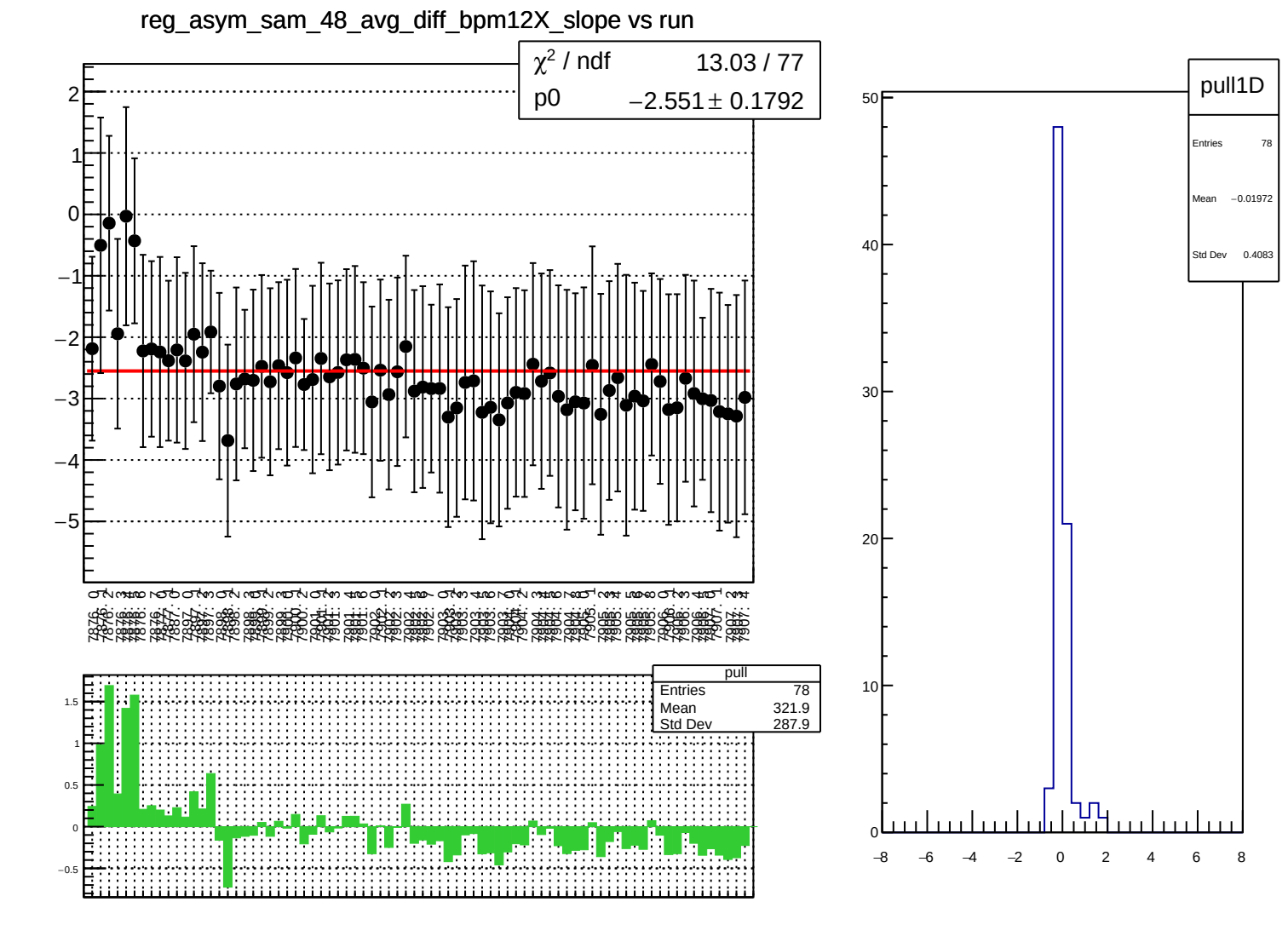

pull1D
Entries 78
Mean −0.5456
Std Dev 1.183

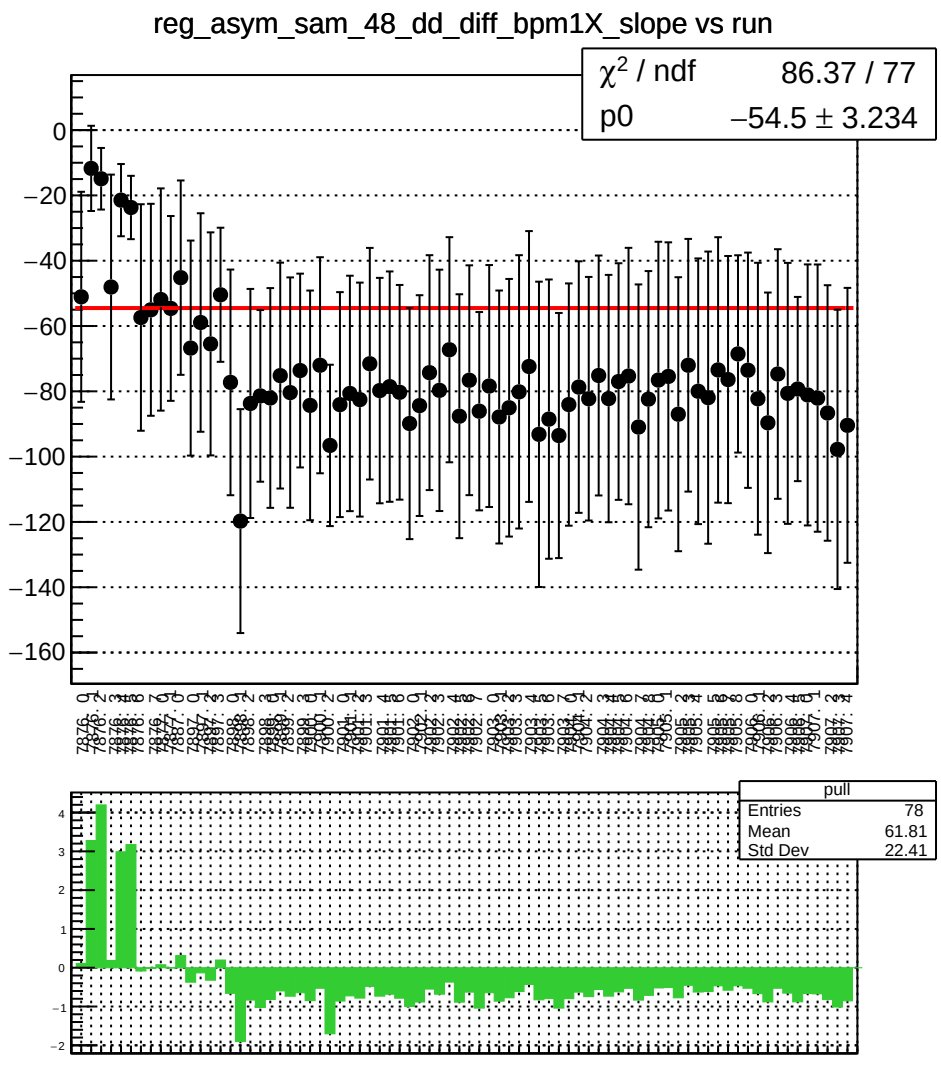

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 83.2 / 77
p0 36.64 ± 4.366
pull
Entries 78
Mean 63.7
Std Dev 24.01

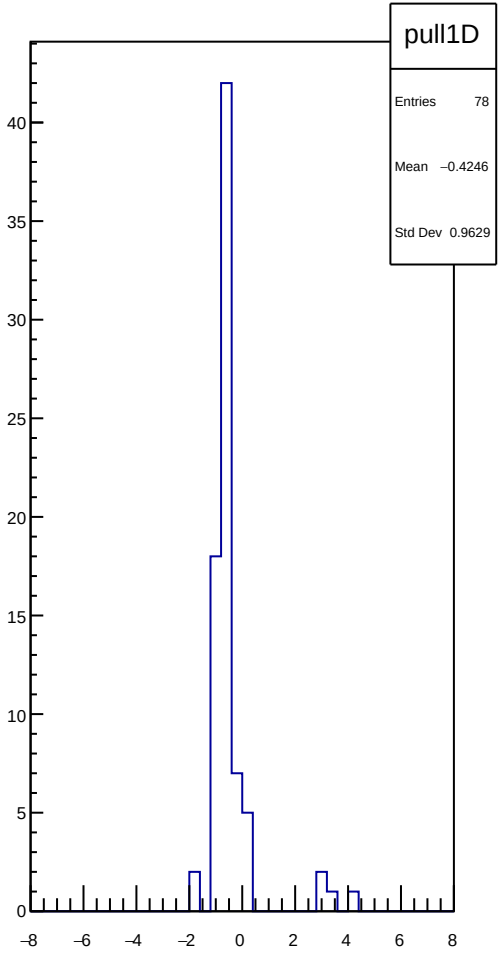

pull1D
Entries 78
Mean 0.3528
Std Dev 0.9706

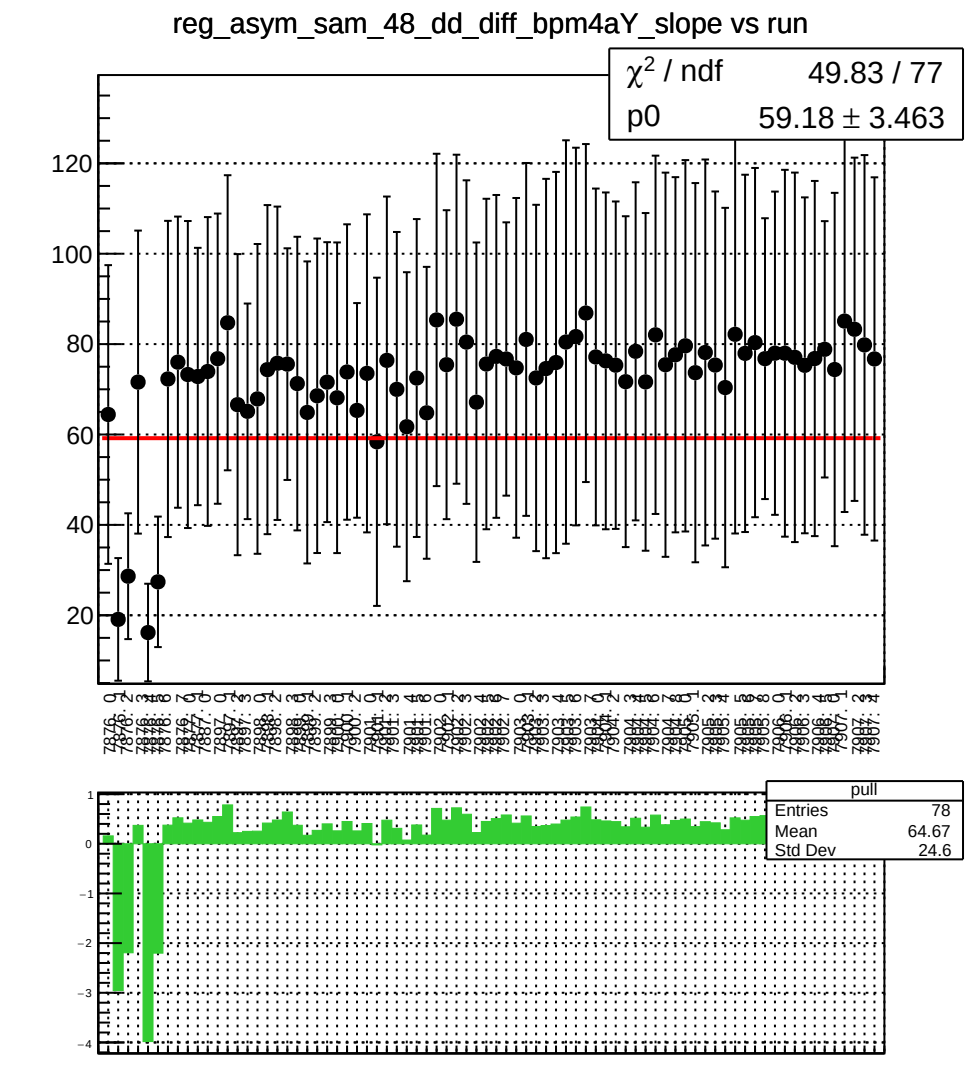

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 160.9 / 77
p0 −73.35 ± 3.298
pull
Entries 78
Mean 57.26
Std Dev 15.35
pull1D
Entries 78
Mean 0.6478
Std Dev 1.282

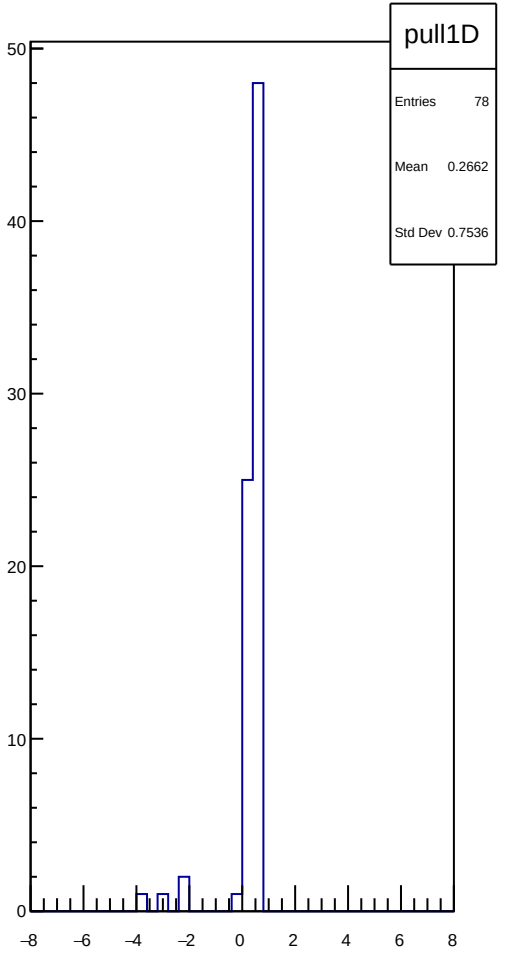

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.09 / 77
p0 63.42 ± 5.389
pull
Entries 78
Mean 77.43
Std Dev 41.42
pull1D
Entries 78
Mean −0.2021
Std Dev 0.839

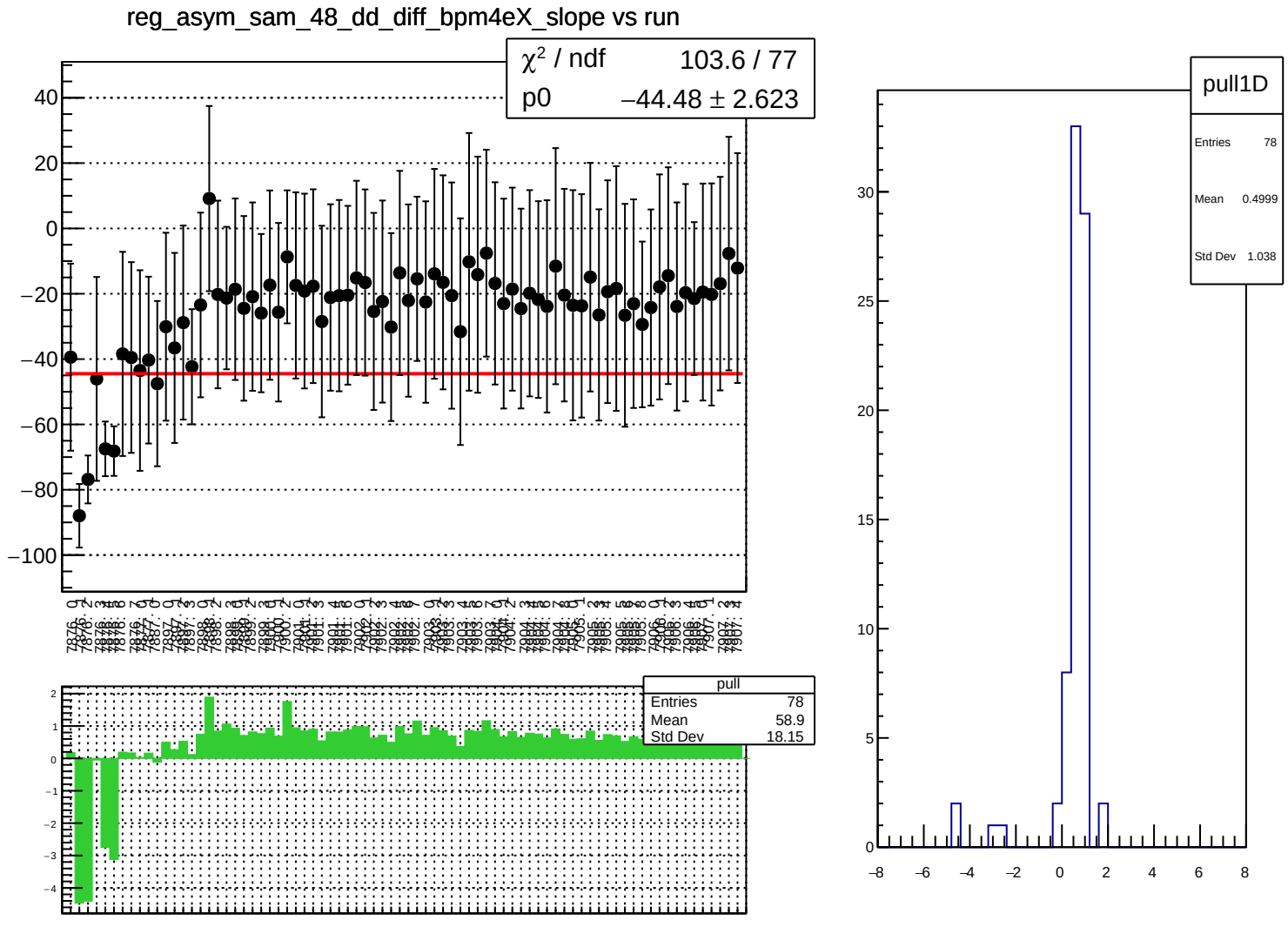

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 13.03 / 77
p0 −2.551 ± 0.1792
pull
Entries 78
Mean 321.9
Std Dev 287.9
pull1D
Entries 78
Mean −0.01972
Std Dev 0.4083

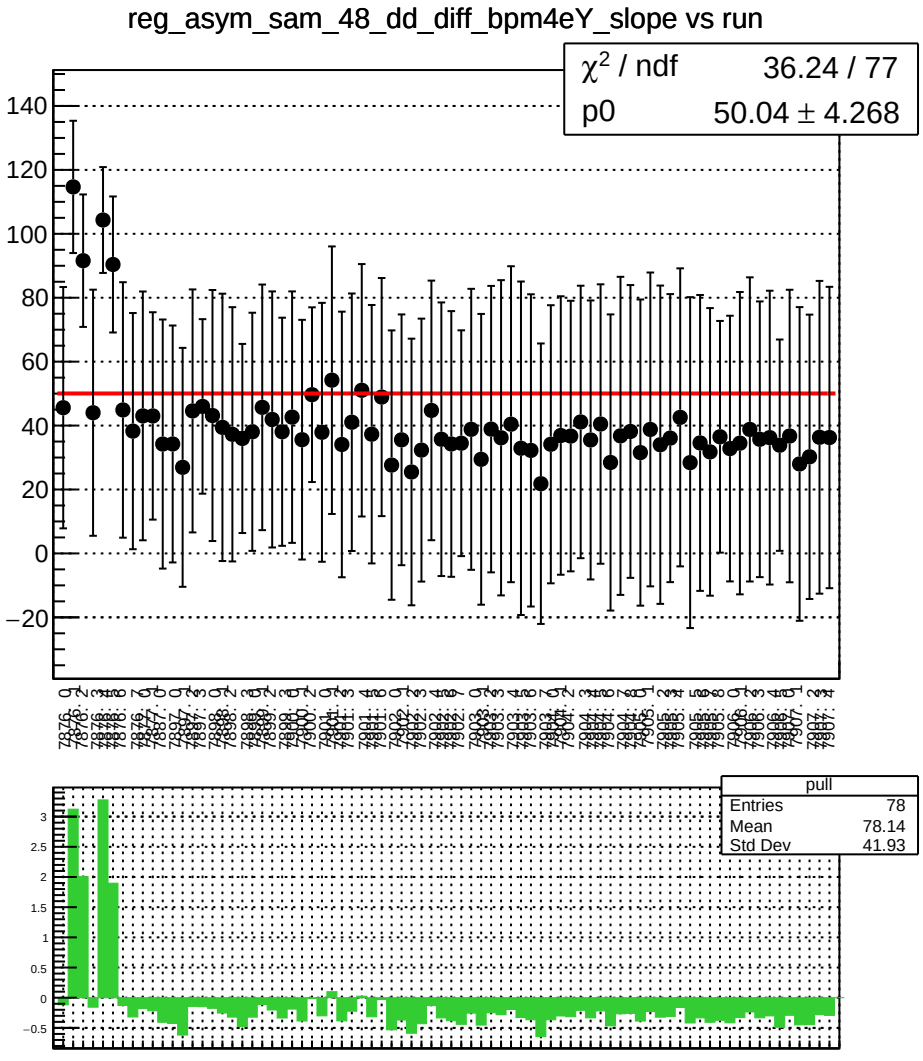

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 86.37 / 77
p0 −54.5 ± 3.234
pull
Entries 78
Mean 61.81
Std Dev 22.41

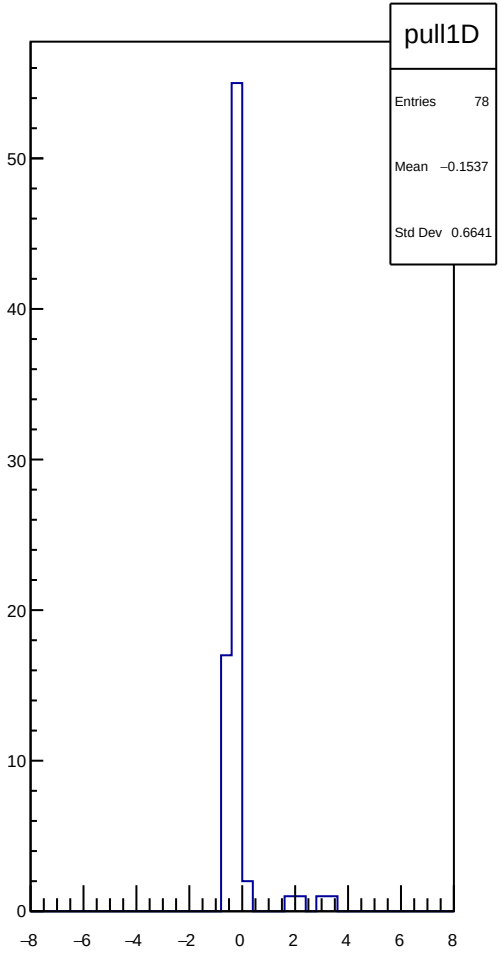

pull1D
Entries 78
Mean −0.4246
Std Dev 0.9629

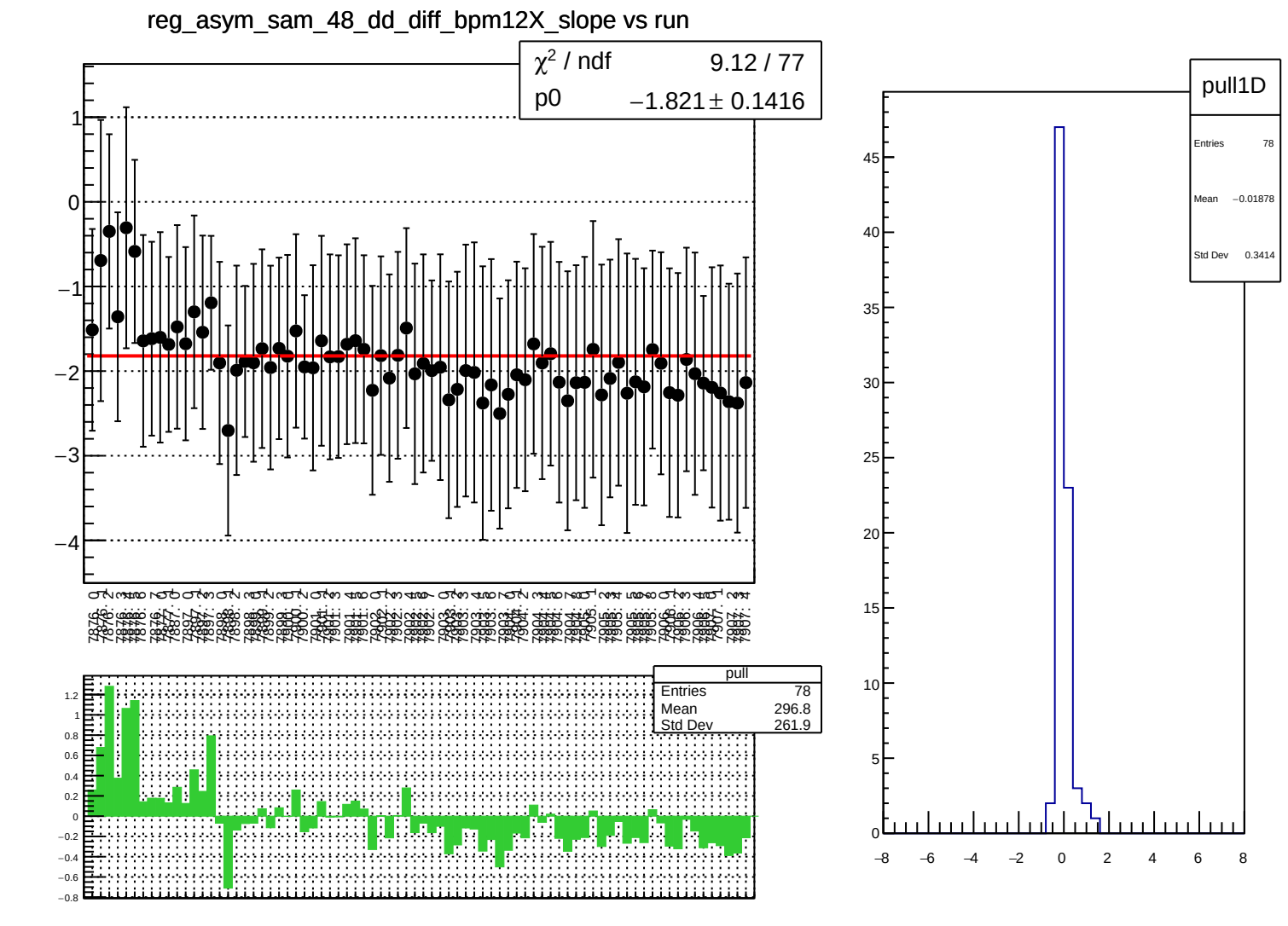

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.83 / 77
p0 59.18 ± 3.463
pull
Entries 78
Mean 64.67
Std Dev 24.6

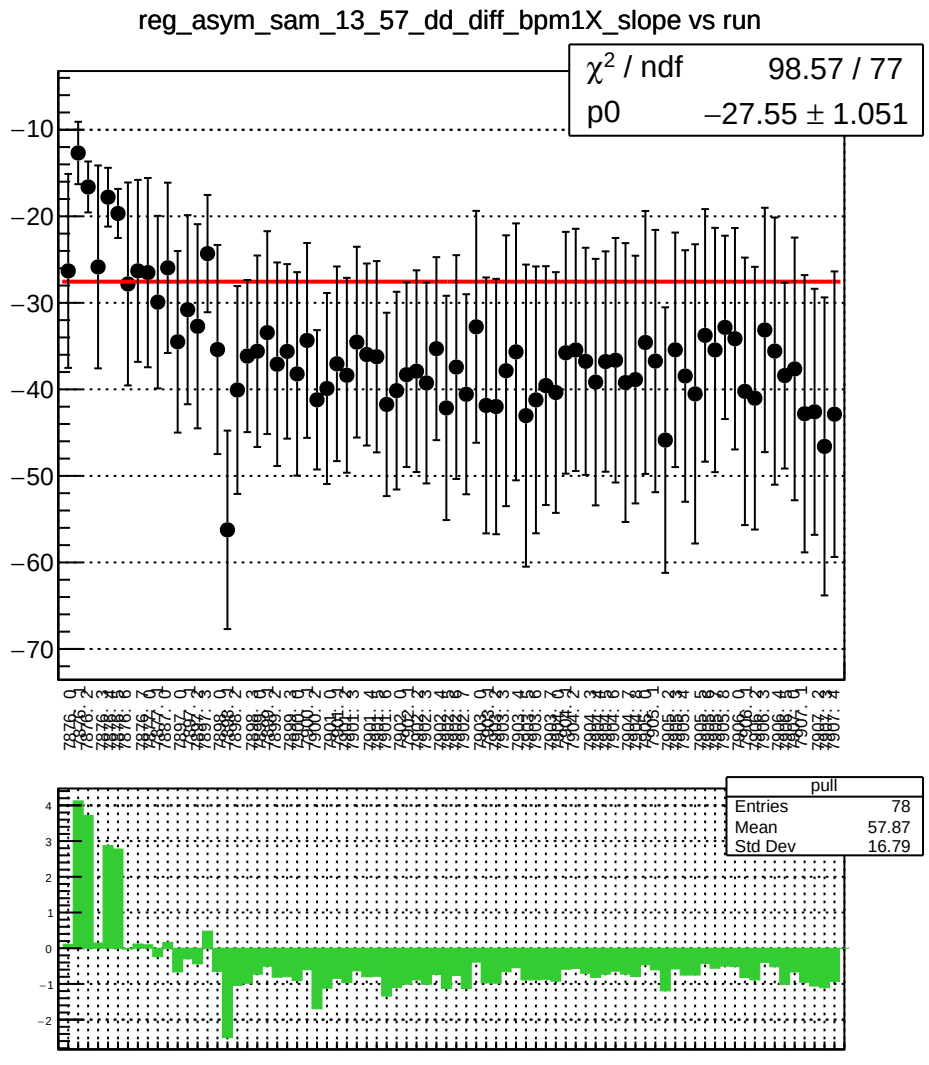

pull1D
Entries 78
Mean 0.2662
Std Dev 0.7536

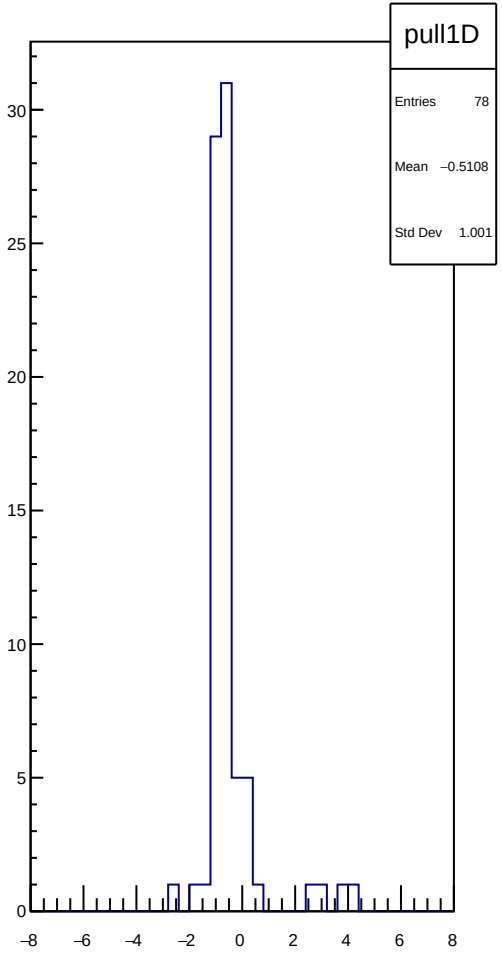

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 103.6 / 77
p0 −44.48 ± 2.623
pull
Entries 78
Mean 58.9
Std Dev 18.15
pull1D
Entries 78
Mean 0.4999
Std Dev 1.038

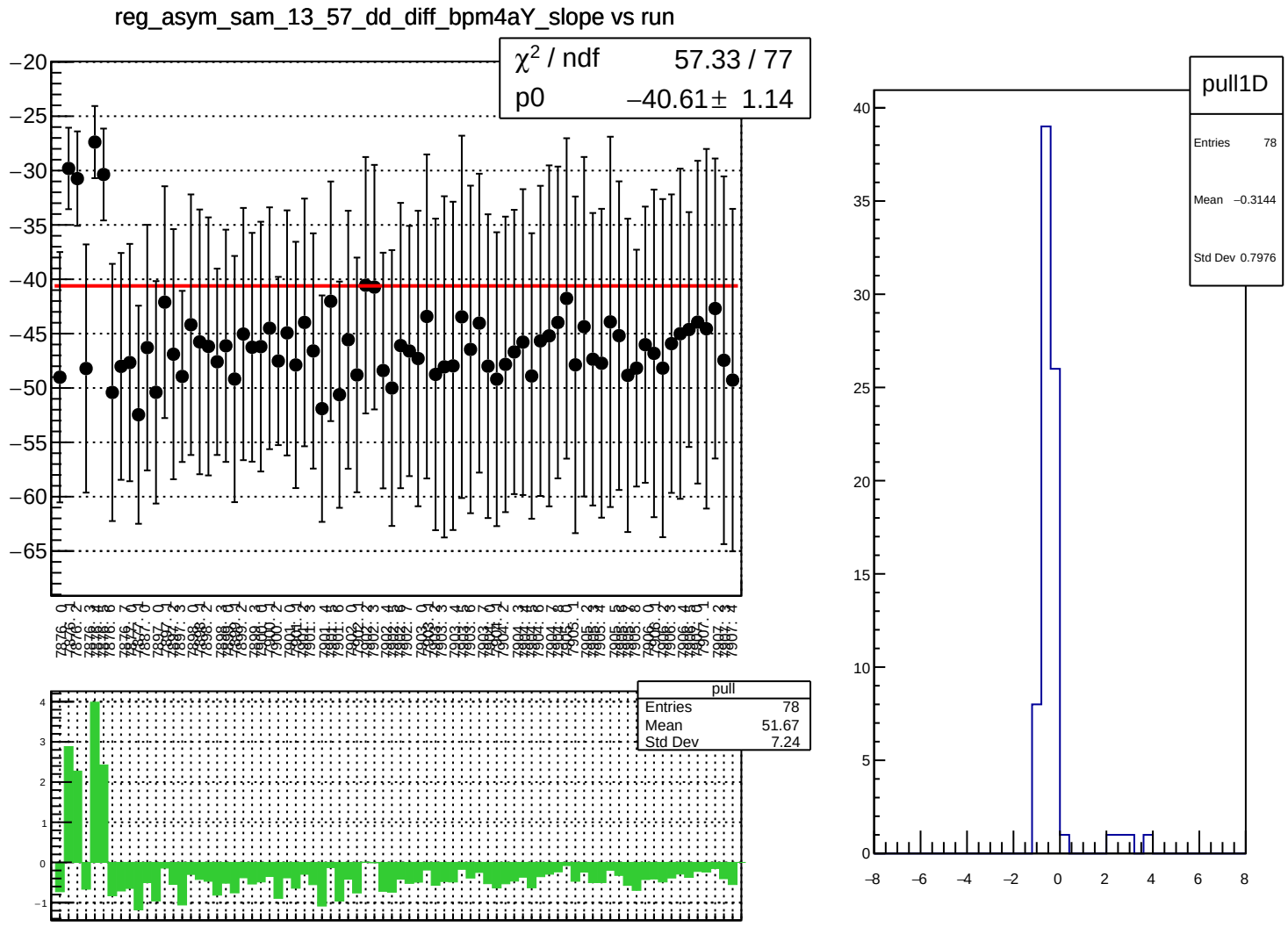

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.24 / 77
p0 50.04 ± 4.268
pull
Entries 78
Mean 78.14
Std Dev 41.93

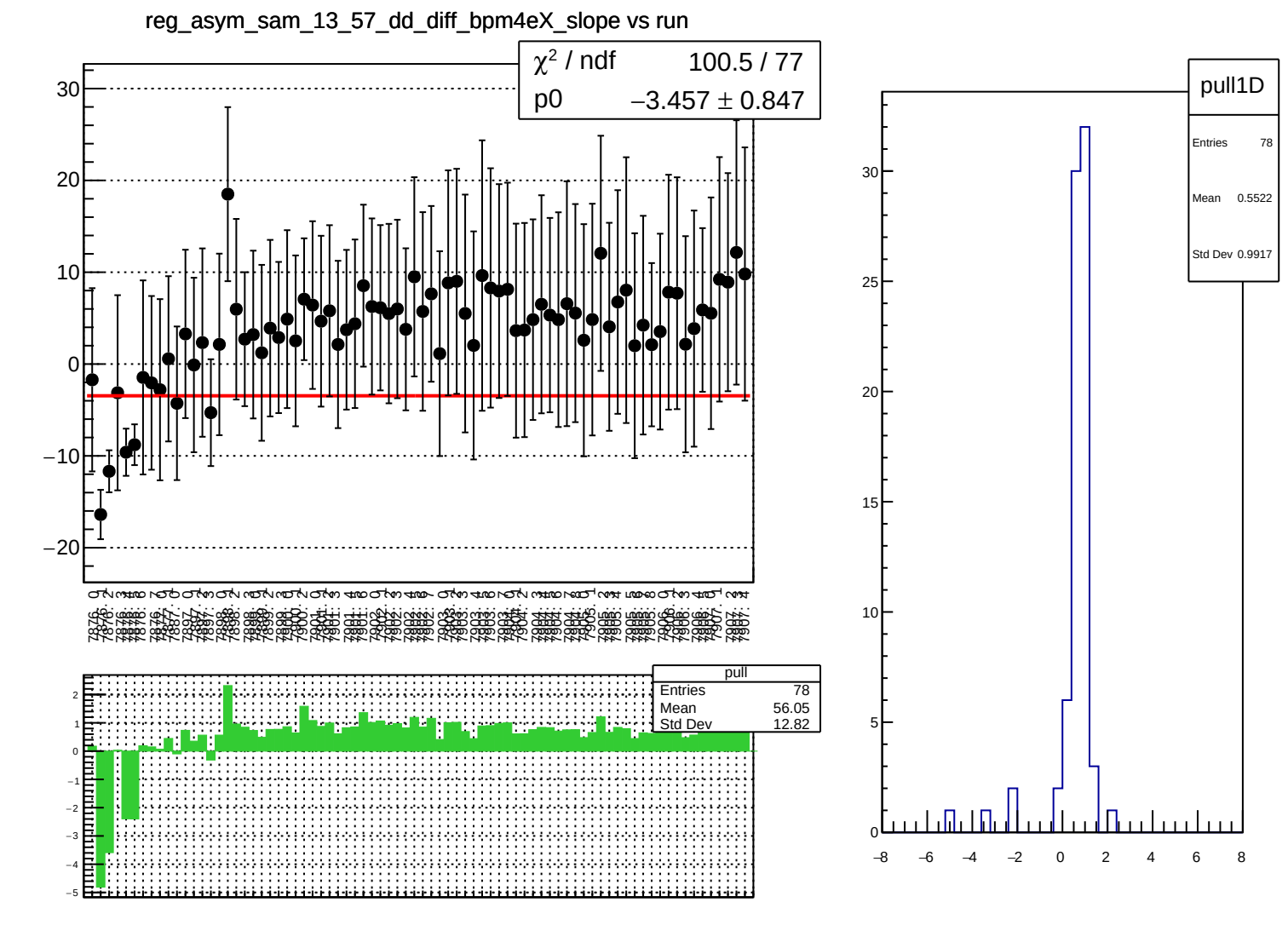

pull1D
Entries 78
Mean −0.1537
Std Dev 0.6641

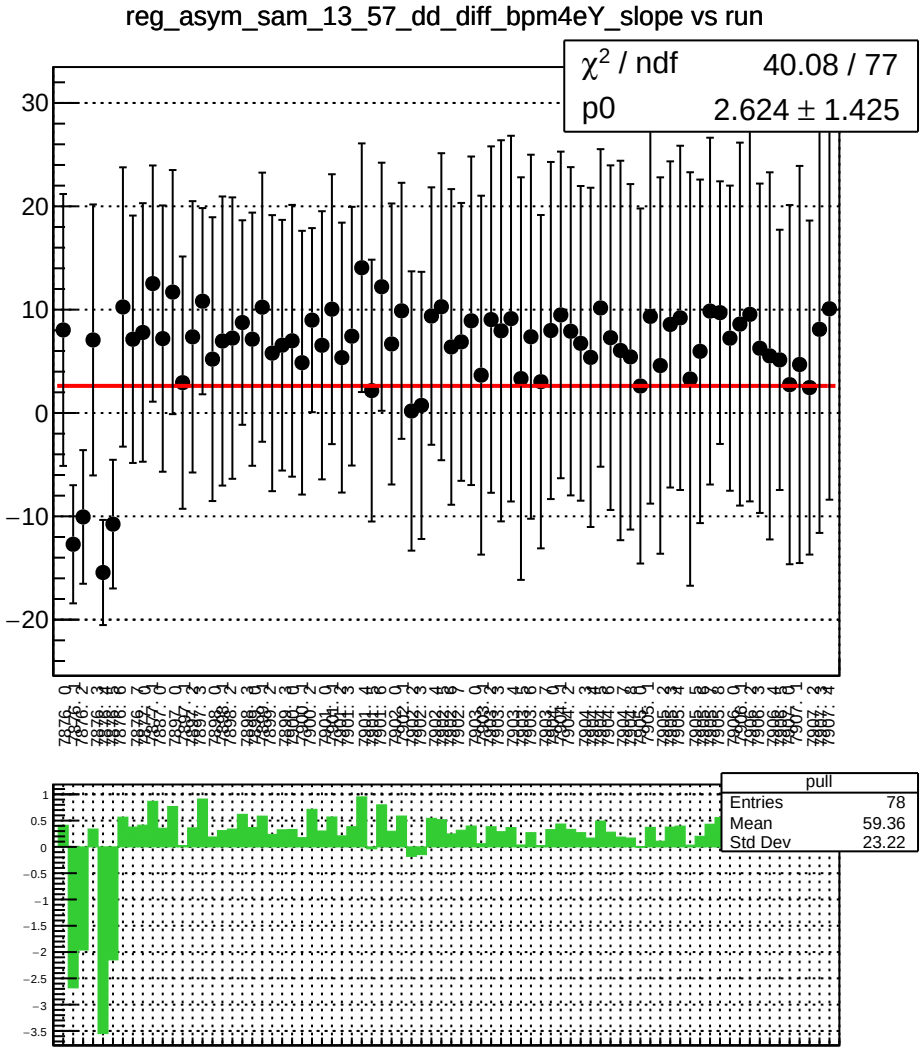

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 9.12 / 77
p0 −1.821 ± 0.1416
pull
Entries 78
Mean 296.8
Std Dev 261.9
pull1D
Entries 78
Mean −0.01878
Std Dev 0.3414

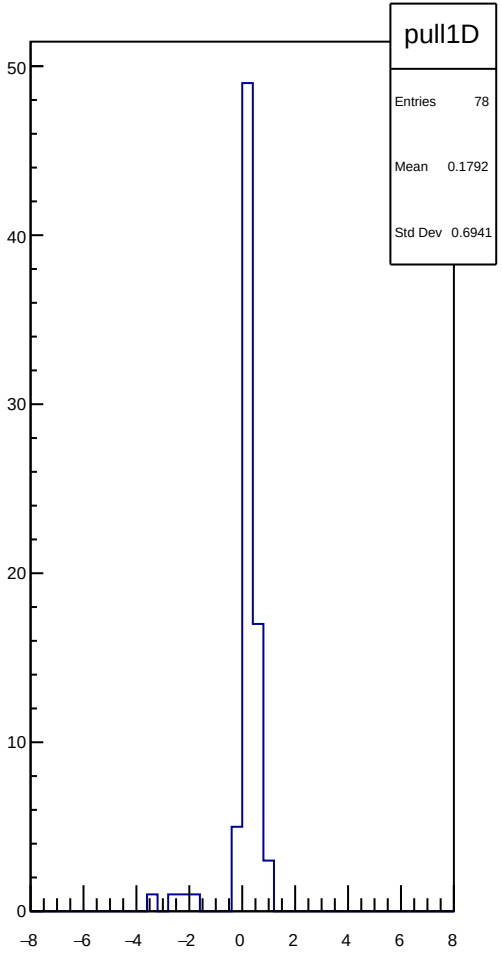

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 98.57 / 77
p0 −27.55 ± 1.051
pull
Entries 78
Mean 57.87
Std Dev 16.79

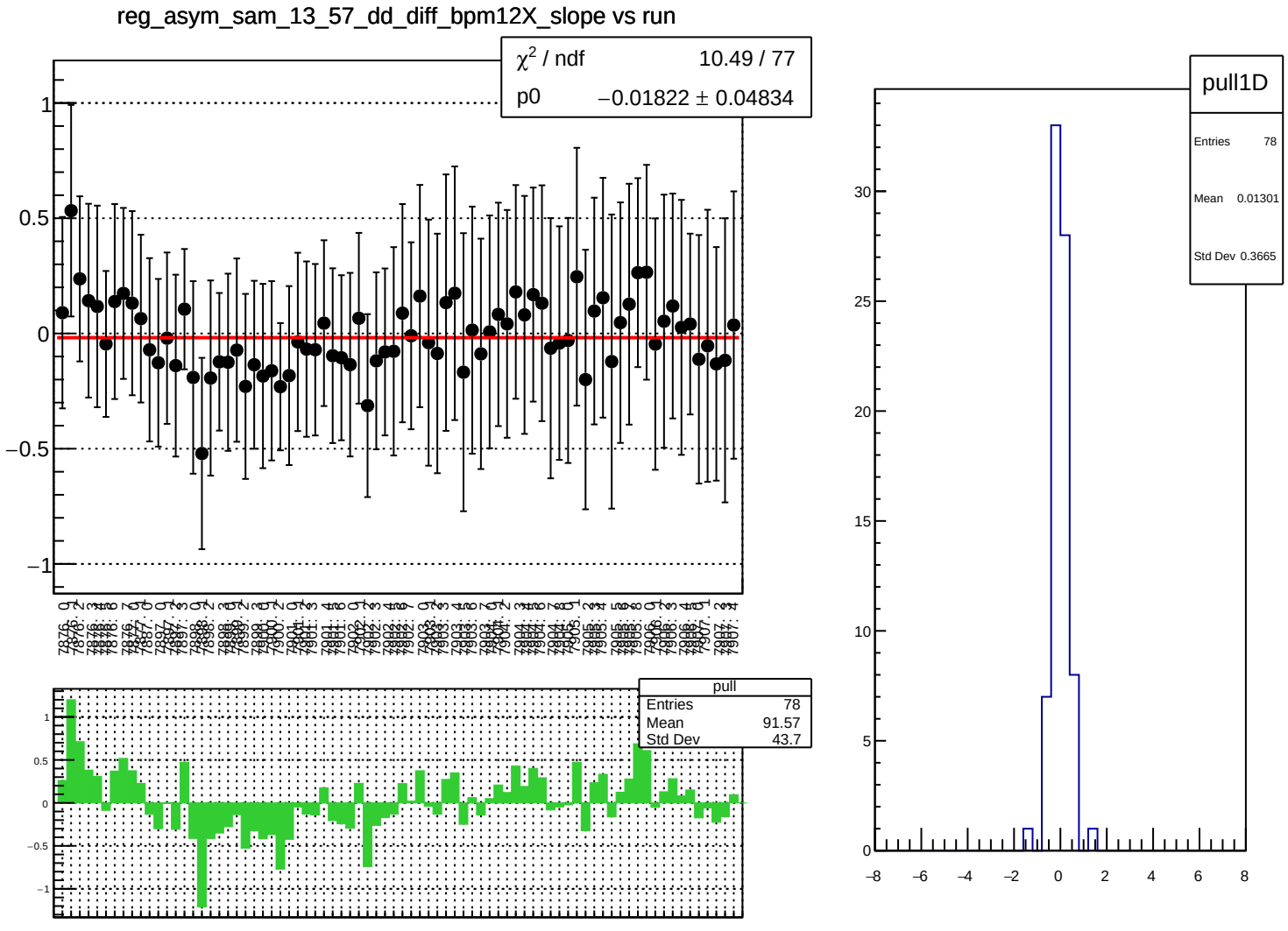

pull1D
Entries 78
Mean −0.5108
Std Dev 1.001

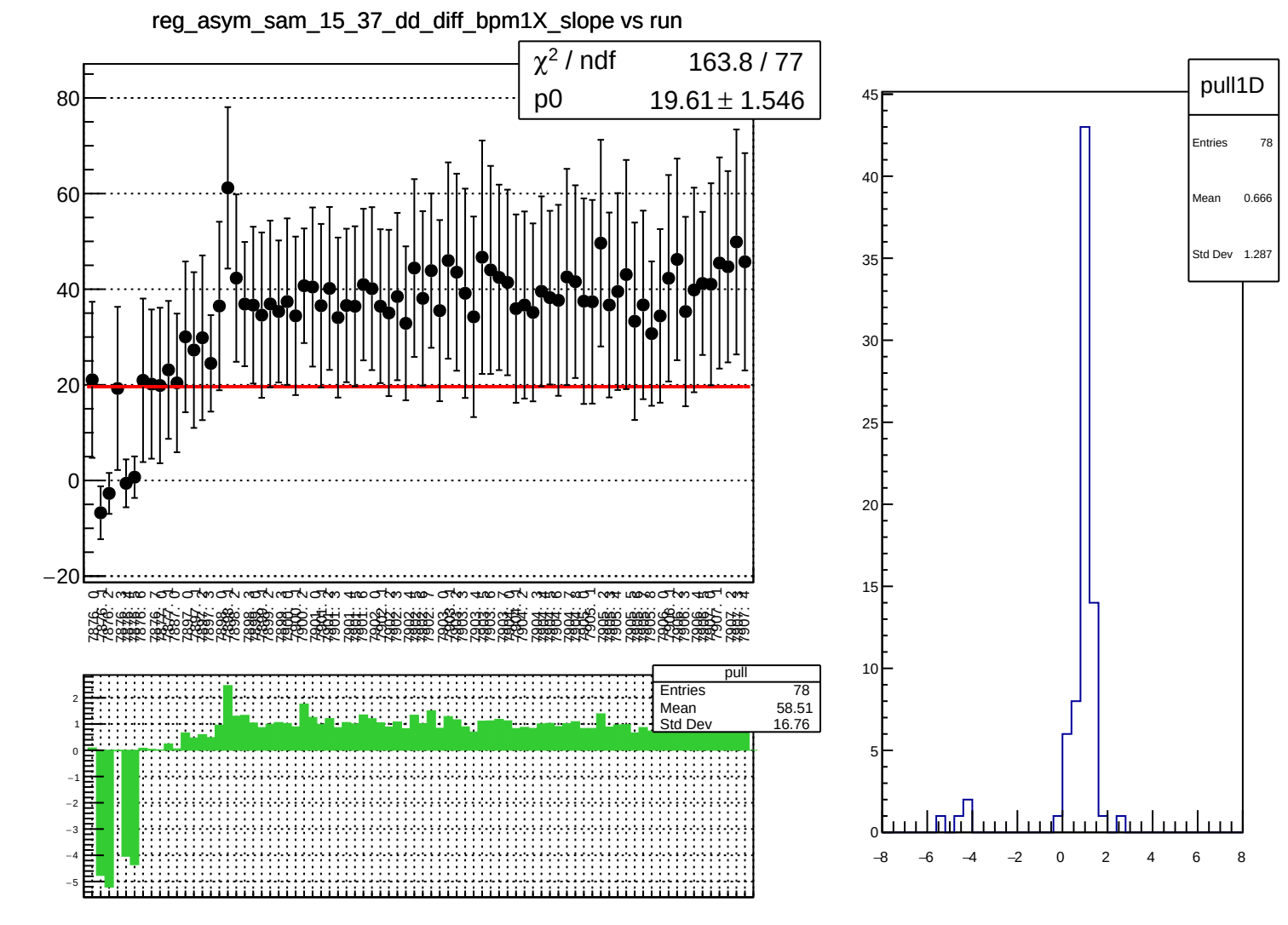

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.33 / 77
p0 −40.61 ± 1.14
pull
Entries 78
Mean 51.67
Std Dev 7.24
pull1D
Entries 78
Mean −0.3144
Std Dev 0.7976

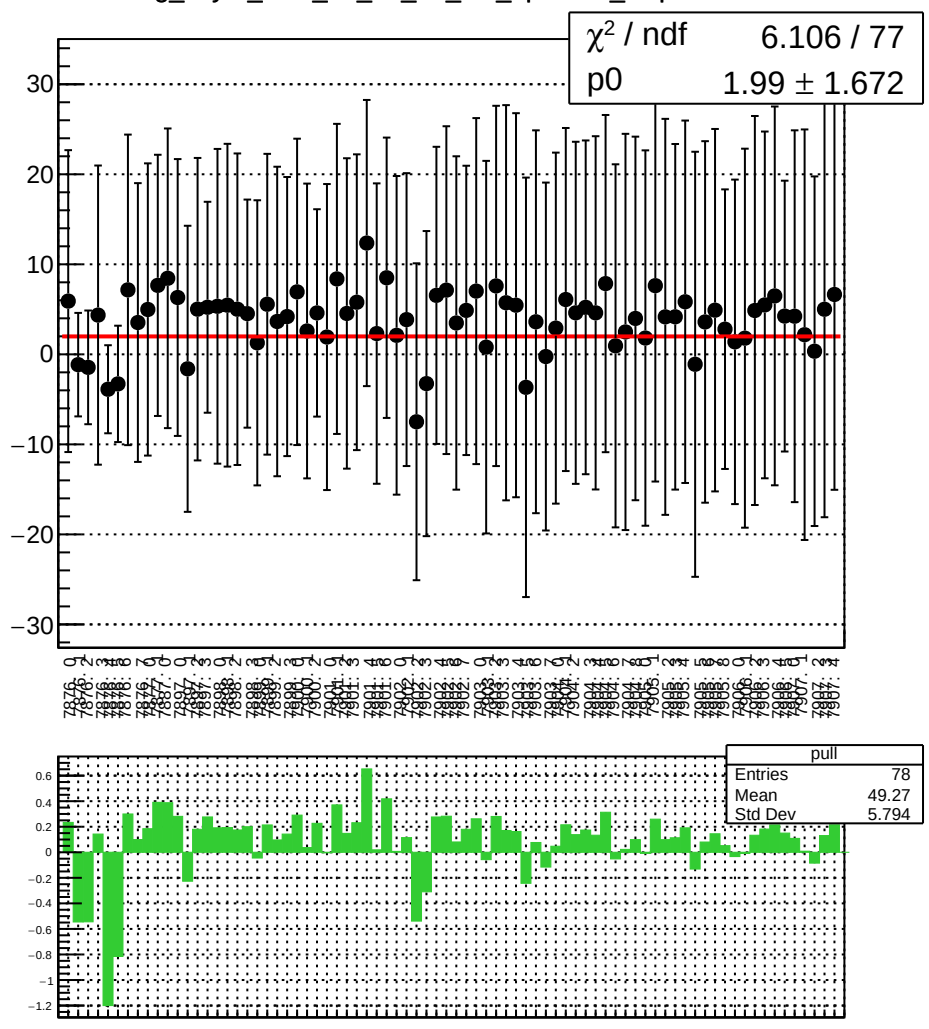

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 100.5 / 77
p0 −3.457 ± 0.847
pull
Entries 78
Mean 56.05
Std Dev 12.82
pull1D
Entries 78
Mean 0.5522
Std Dev 0.9917

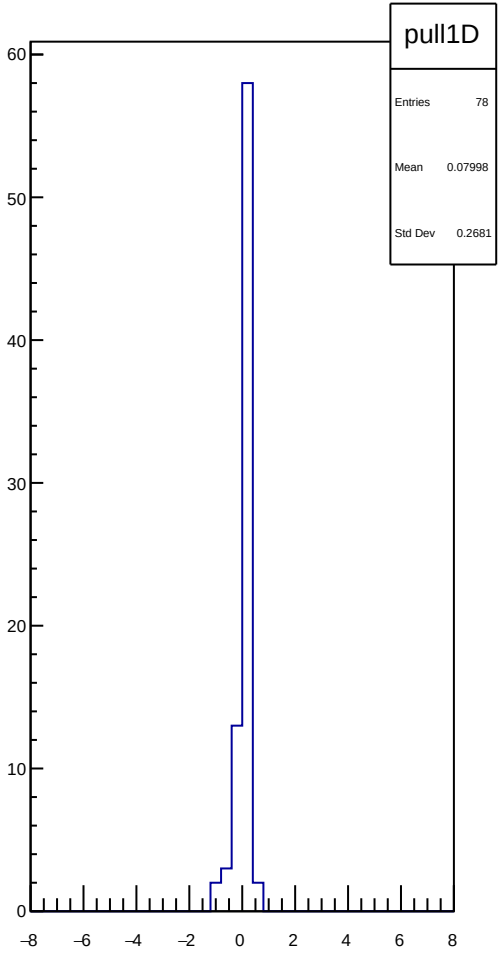

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.08 / 77
p0 2.624 ± 1.425
pull
Entries 78
Mean 59.36
Std Dev 23.22

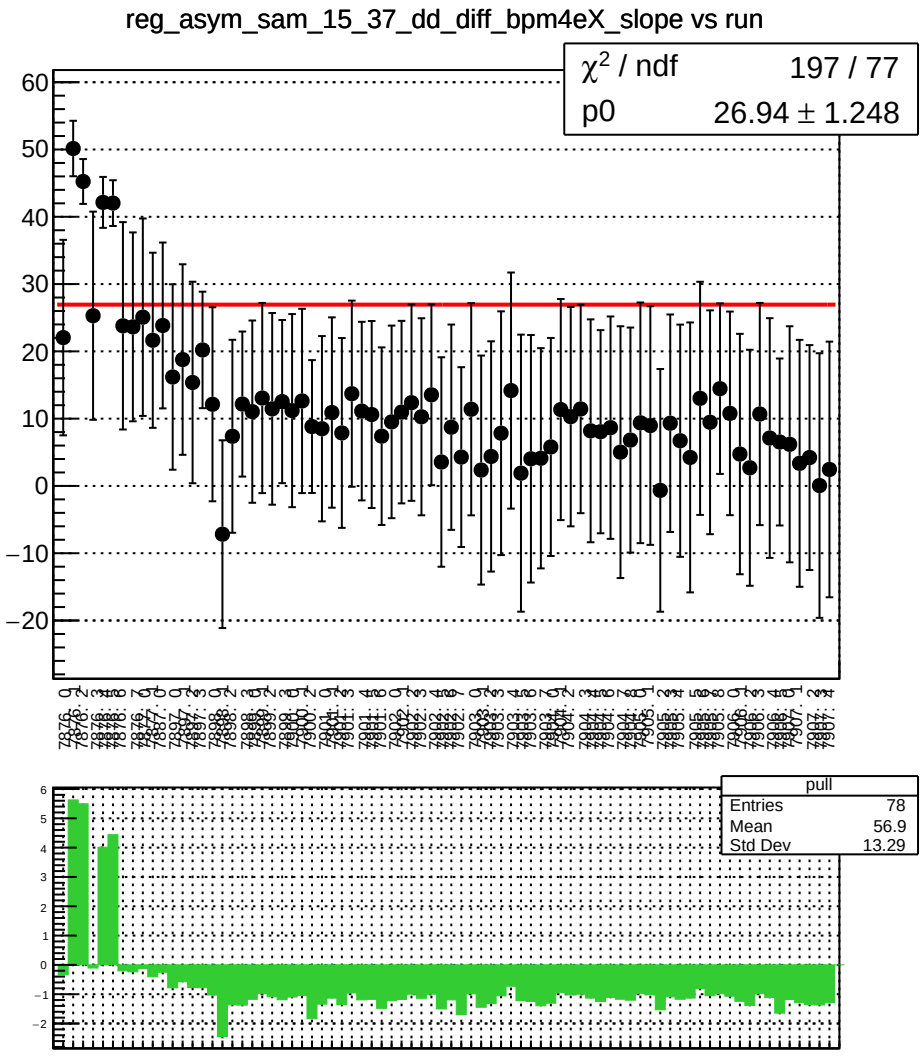

pull1D
Entries 78
Mean 0.1792
Std Dev 0.6941

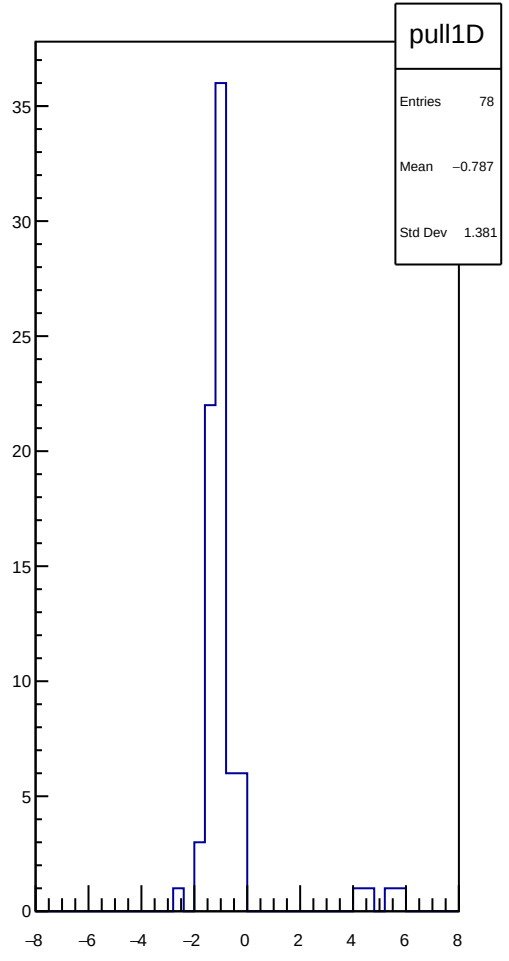

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 10.49 / 77
p0 −0.01822 ± 0.04834
pull
Entries 78
Mean 91.57
Std Dev 43.7
pull1D
Entries 78
Mean 0.01301
Std Dev 0.3665

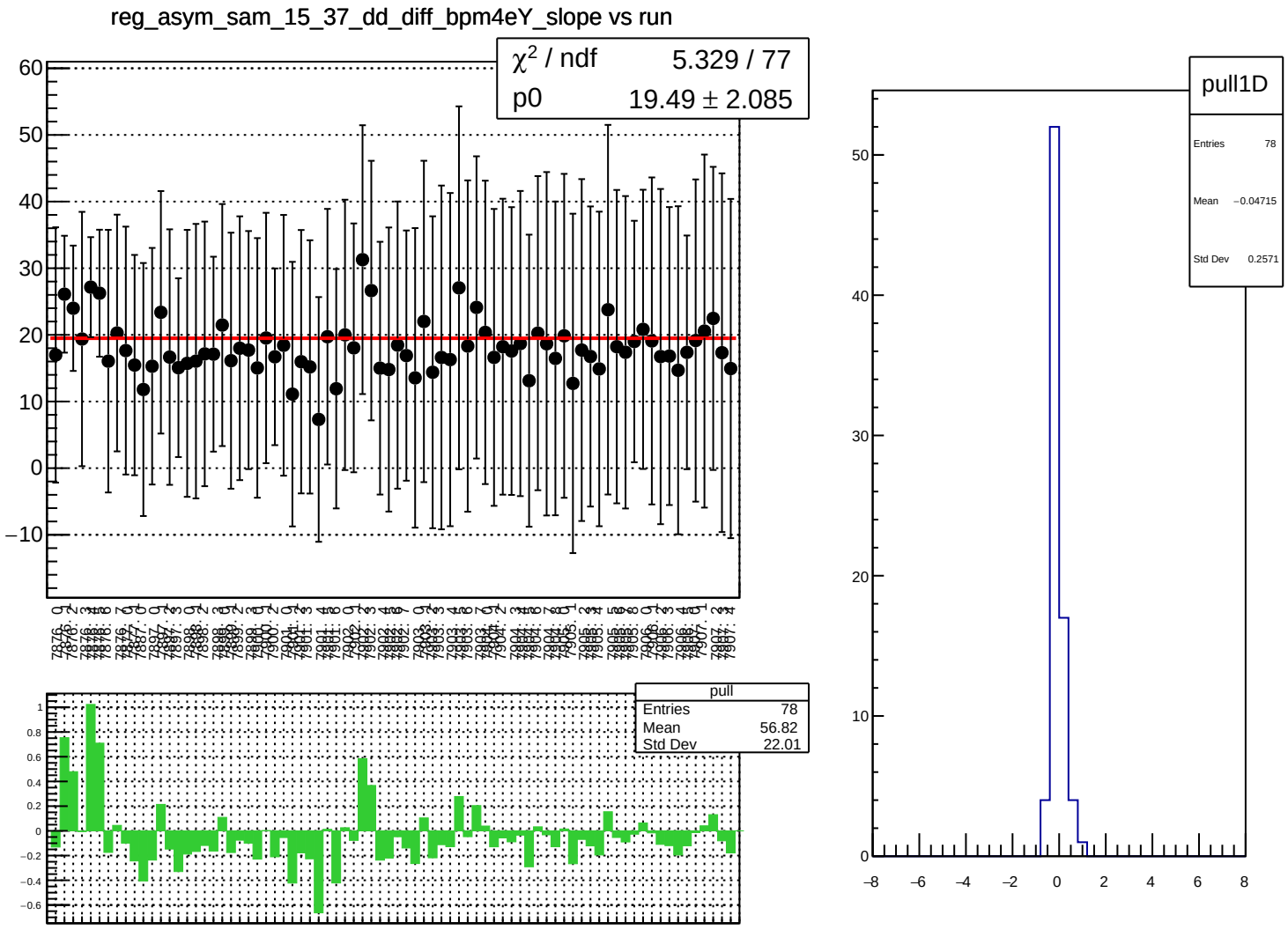

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 163.8 / 77
p0 19.61 ± 1.546
pull
Entries 78
Mean 58.51
Std Dev 16.76
pull1D
Entries 78
Mean 0.666
Std Dev 1.287

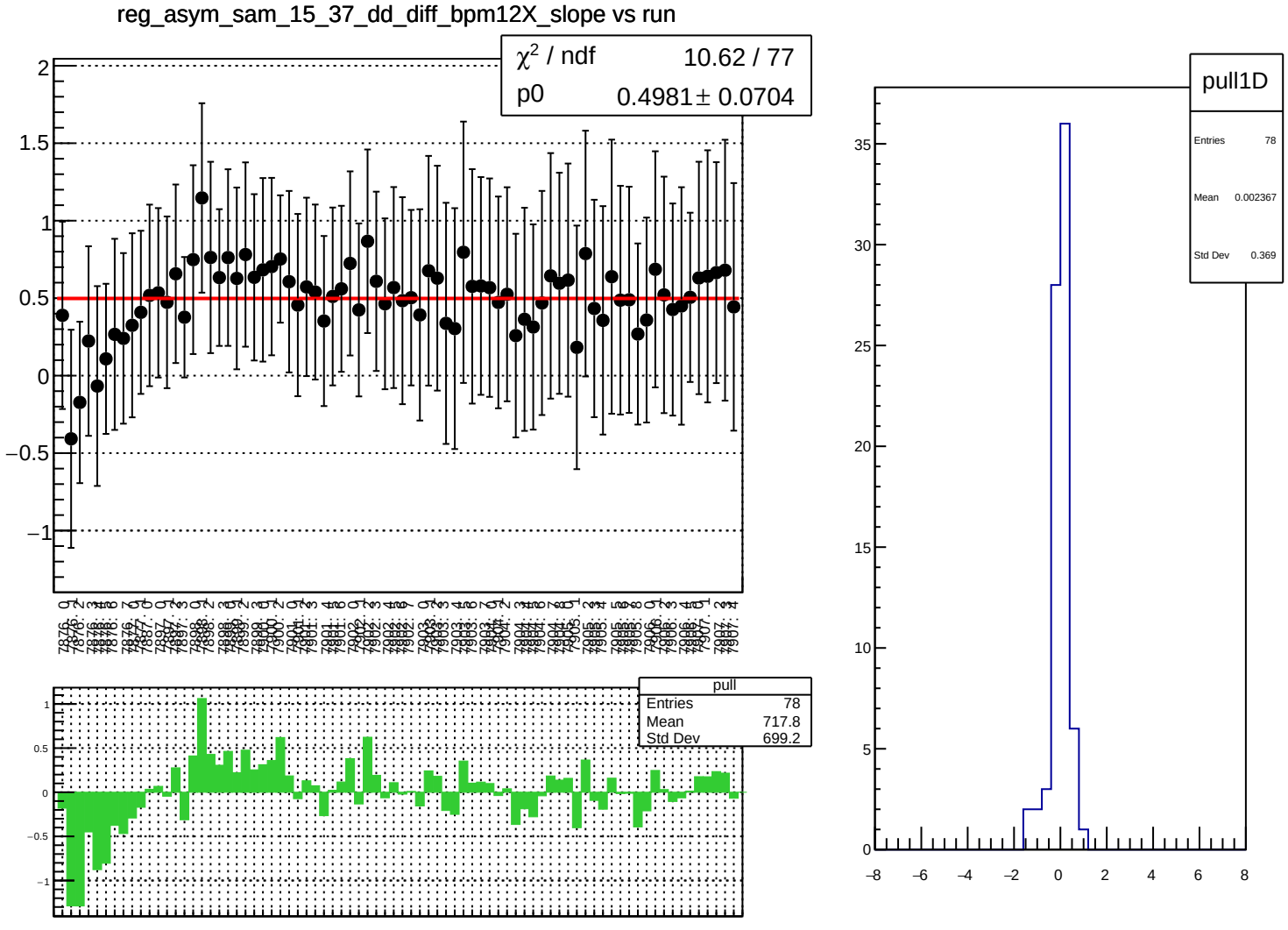

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.106 / 77
p0 1.99 ± 1.672
pull
Entries 78
Mean 49.27
Std Dev 5.794

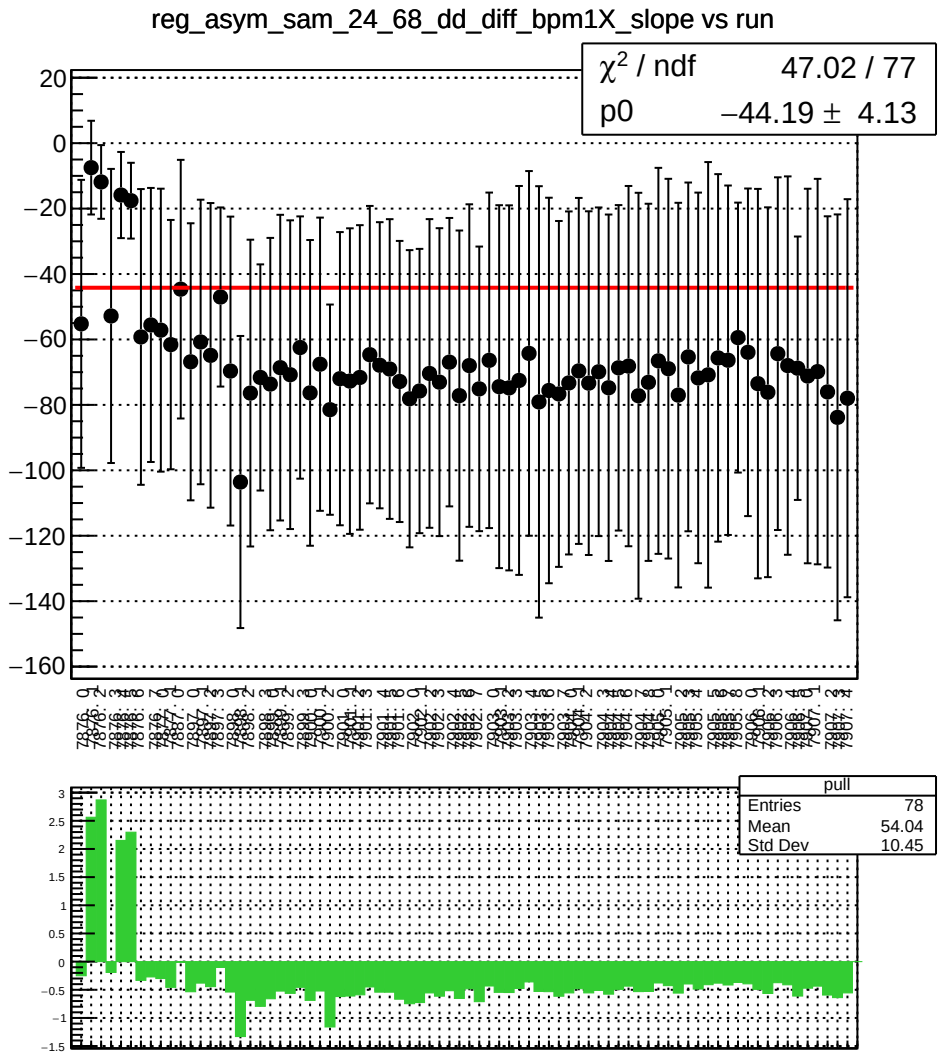

pull1D
Entries 78
Mean 0.07998
Std Dev 0.2681

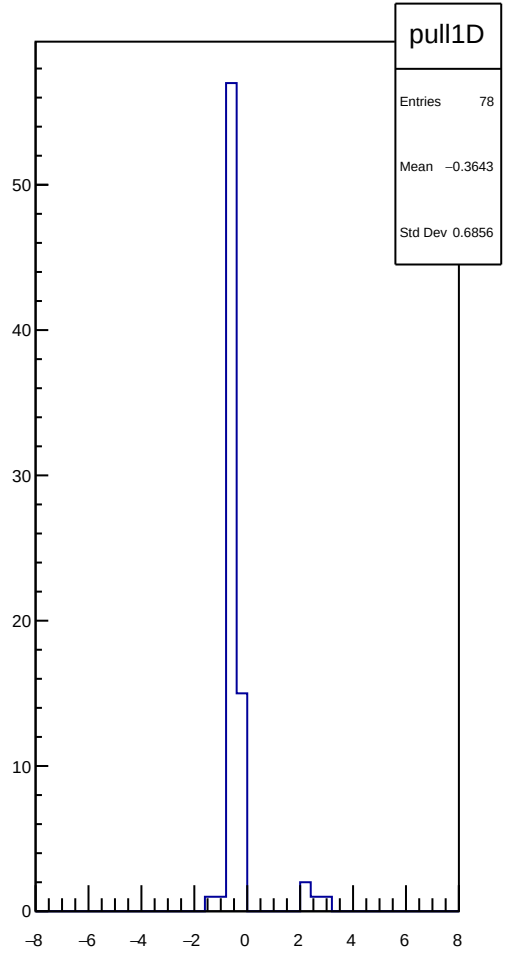

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 197 / 77
p0 26.94 ± 1.248
pull
Entries 78
Mean 56.9
Std Dev 13.29

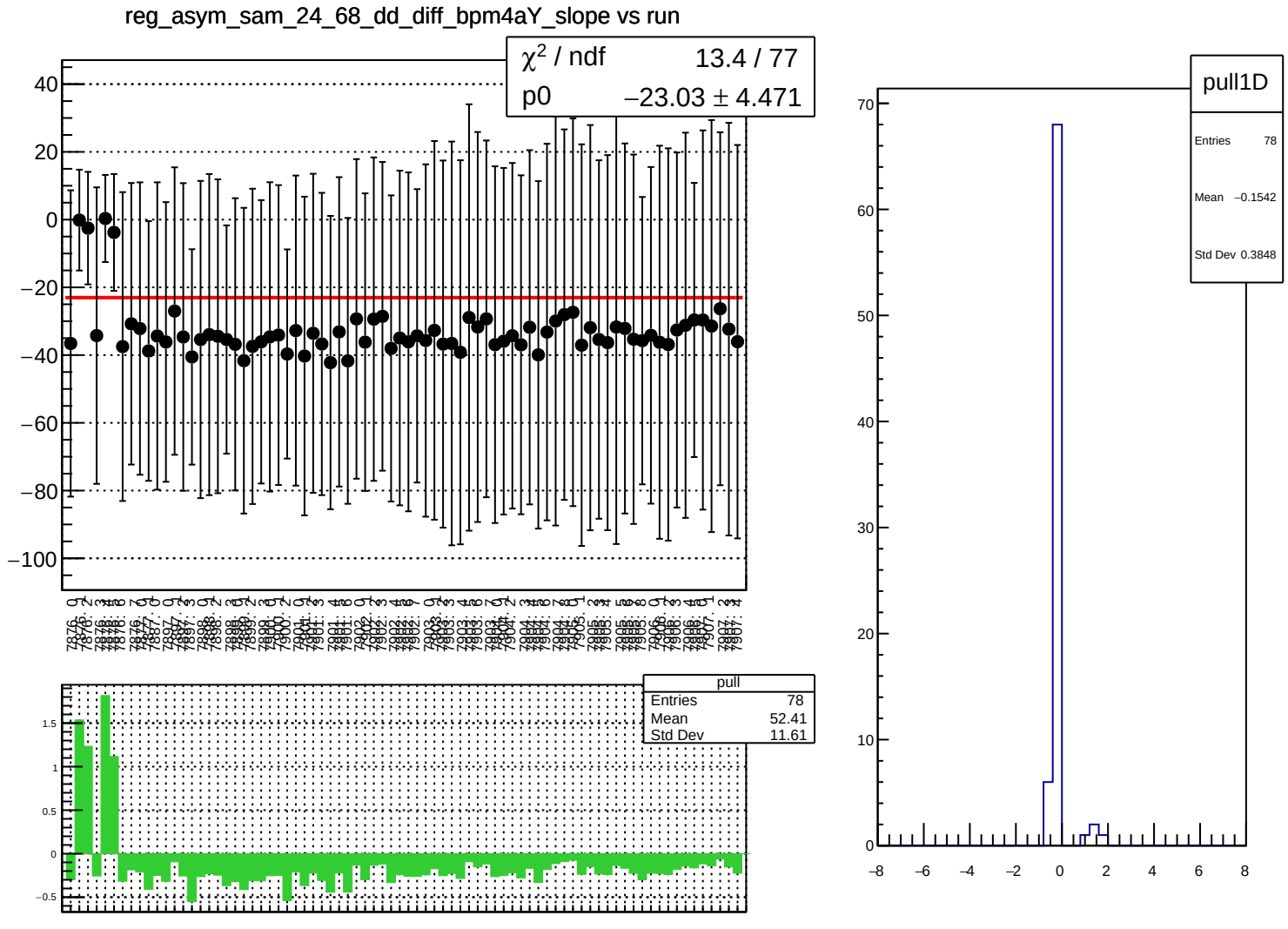

pull1D
Entries 78
Mean −0.787
Std Dev 1.381

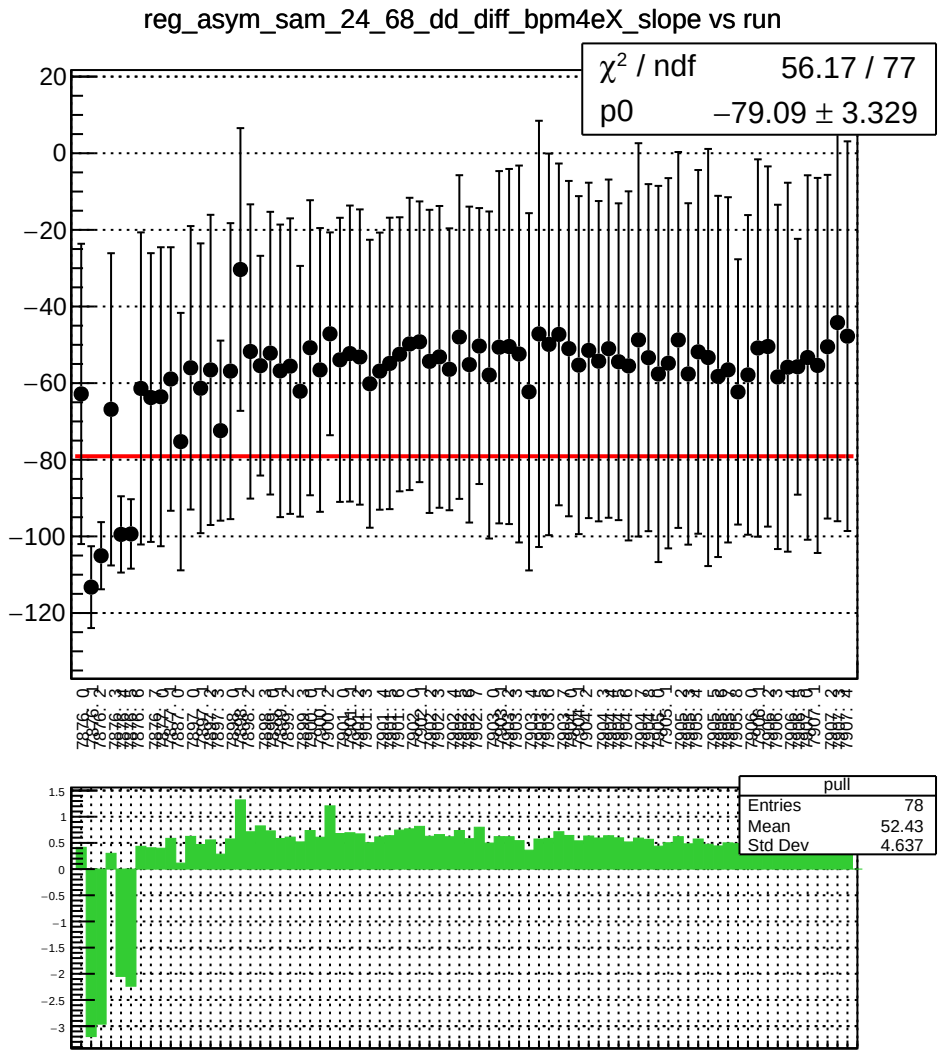

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.329 / 77
p0 19.49 ± 2.085
pull
Entries 78
Mean 56.82
Std Dev 22.01
pull1D
Entries 78
Mean −0.04715
Std Dev 0.2571

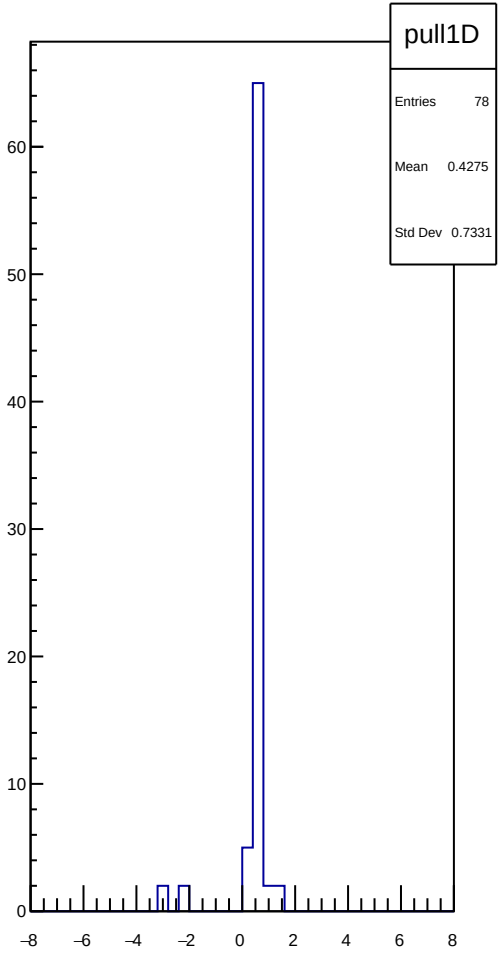

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 10.62 / 77
p0 0.4981 ± 0.0704
pull
Entries 78
Mean 717.8
Std Dev 699.2
pull1D
Entries 78
Mean 0.002367
Std Dev 0.369

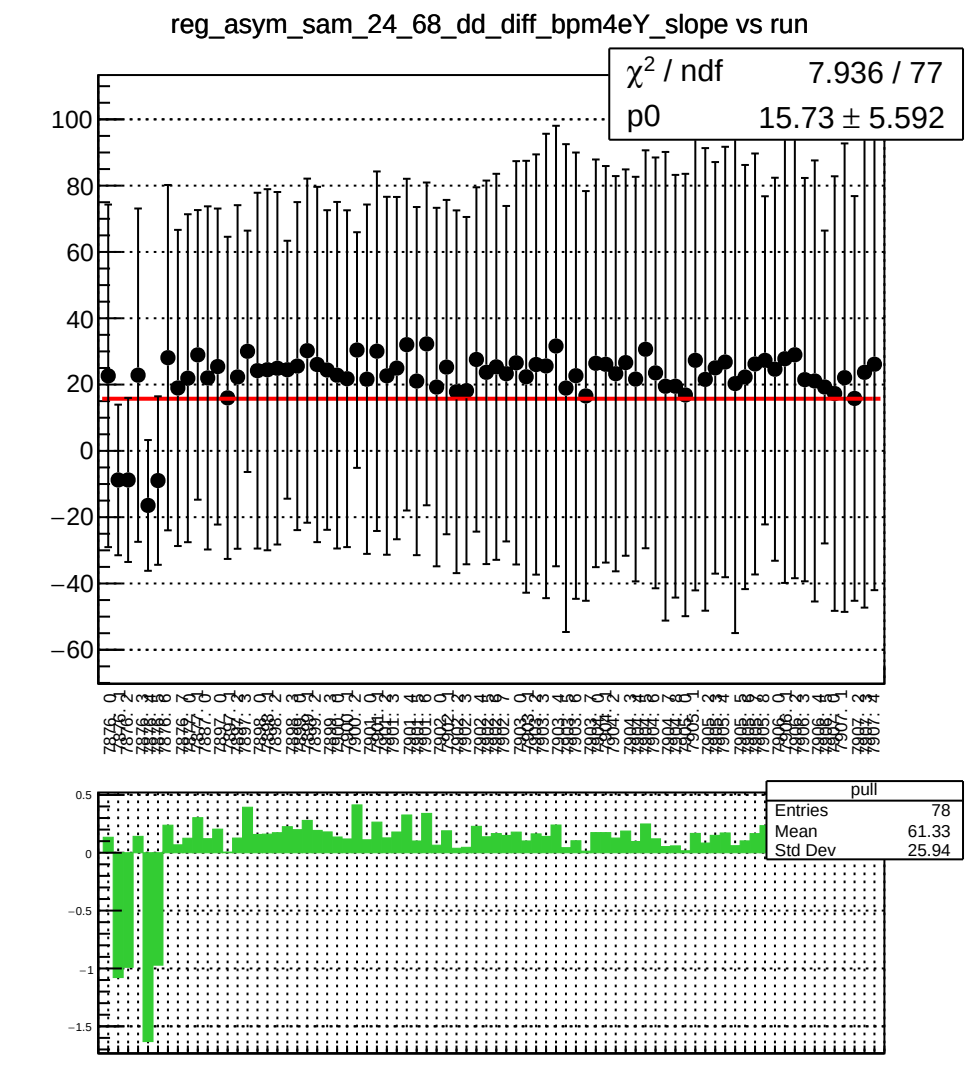

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 47.02 / 77
p0 −44.19 ± 4.13
pull
Entries 78
Mean 54.04
Std Dev 10.45

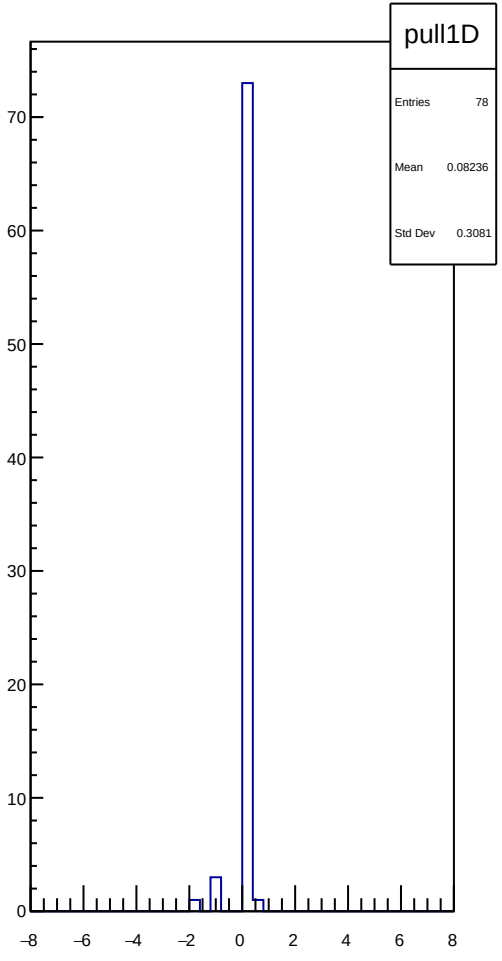

pull1D
Entries 78
Mean −0.3643
Std Dev 0.6856

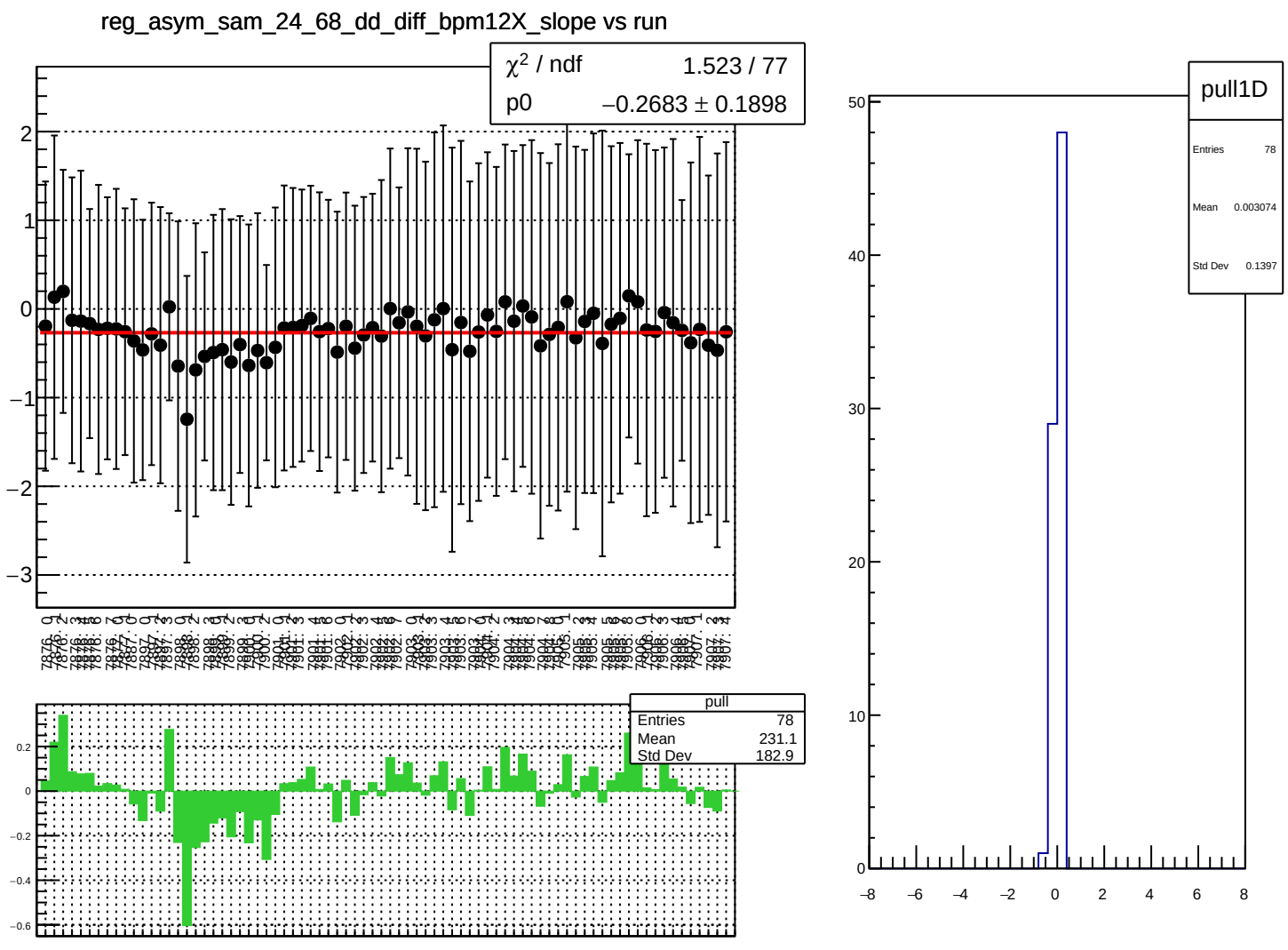

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.4 / 77
p0 −23.03 ± 4.471
pull
Entries 78
Mean 52.41
Std Dev 11.61
pull1D
Entries 78
Mean −0.1542
Std Dev 0.3848

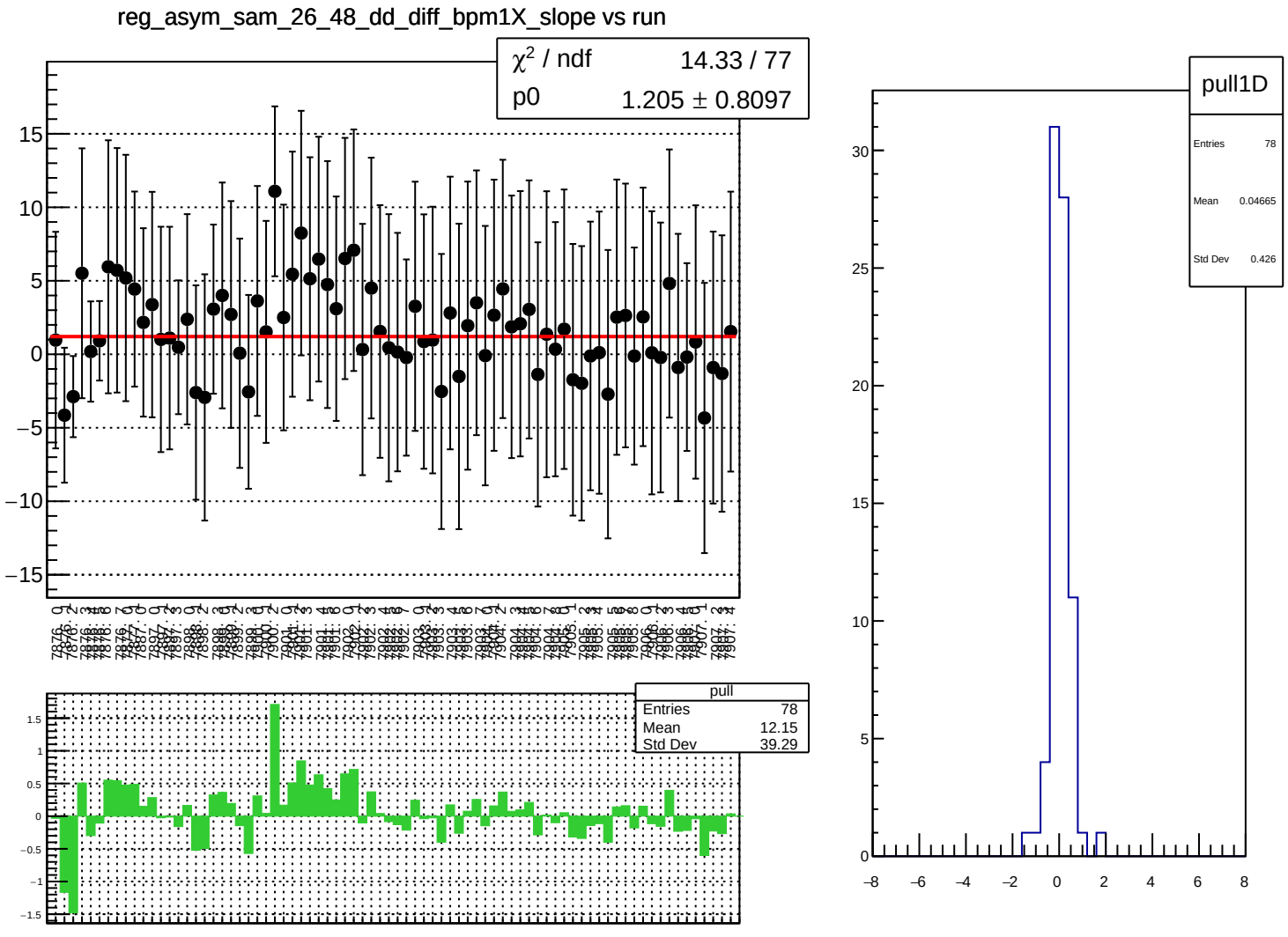

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 56.17 / 77
p0 −79.09 ± 3.329
pull
Entries 78
Mean 52.43
Std Dev 4.637

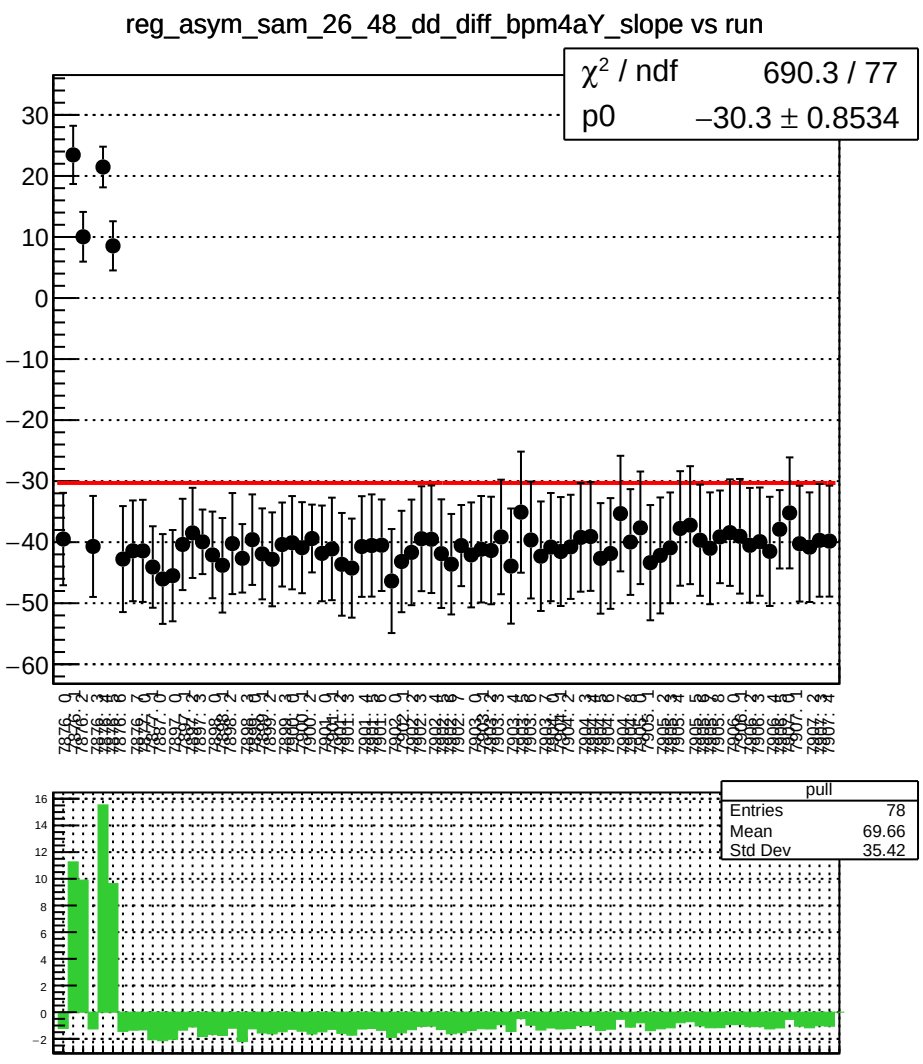

pull1D
Entries 78
Mean 0.4275
Std Dev 0.7331

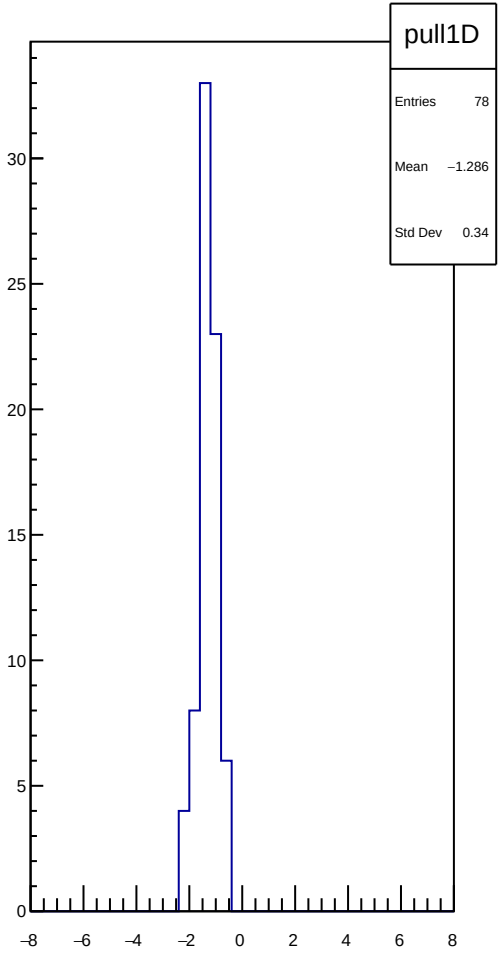

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.936 / 77
p0 15.73 ± 5.592
pull
Entries 78
Mean 61.33
Std Dev 25.94

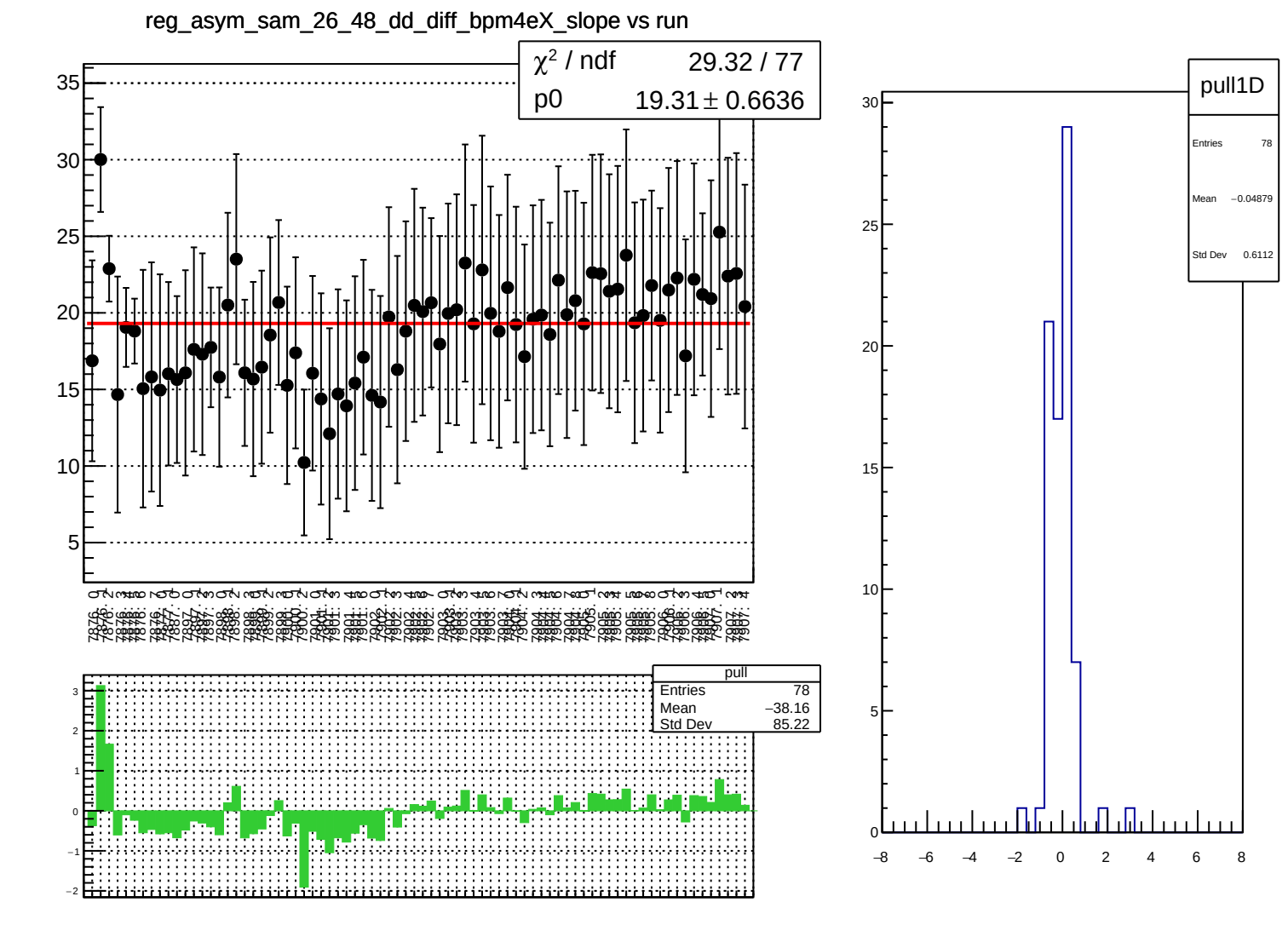

pull1D
Entries 78
Mean 0.08236
Std Dev 0.3081

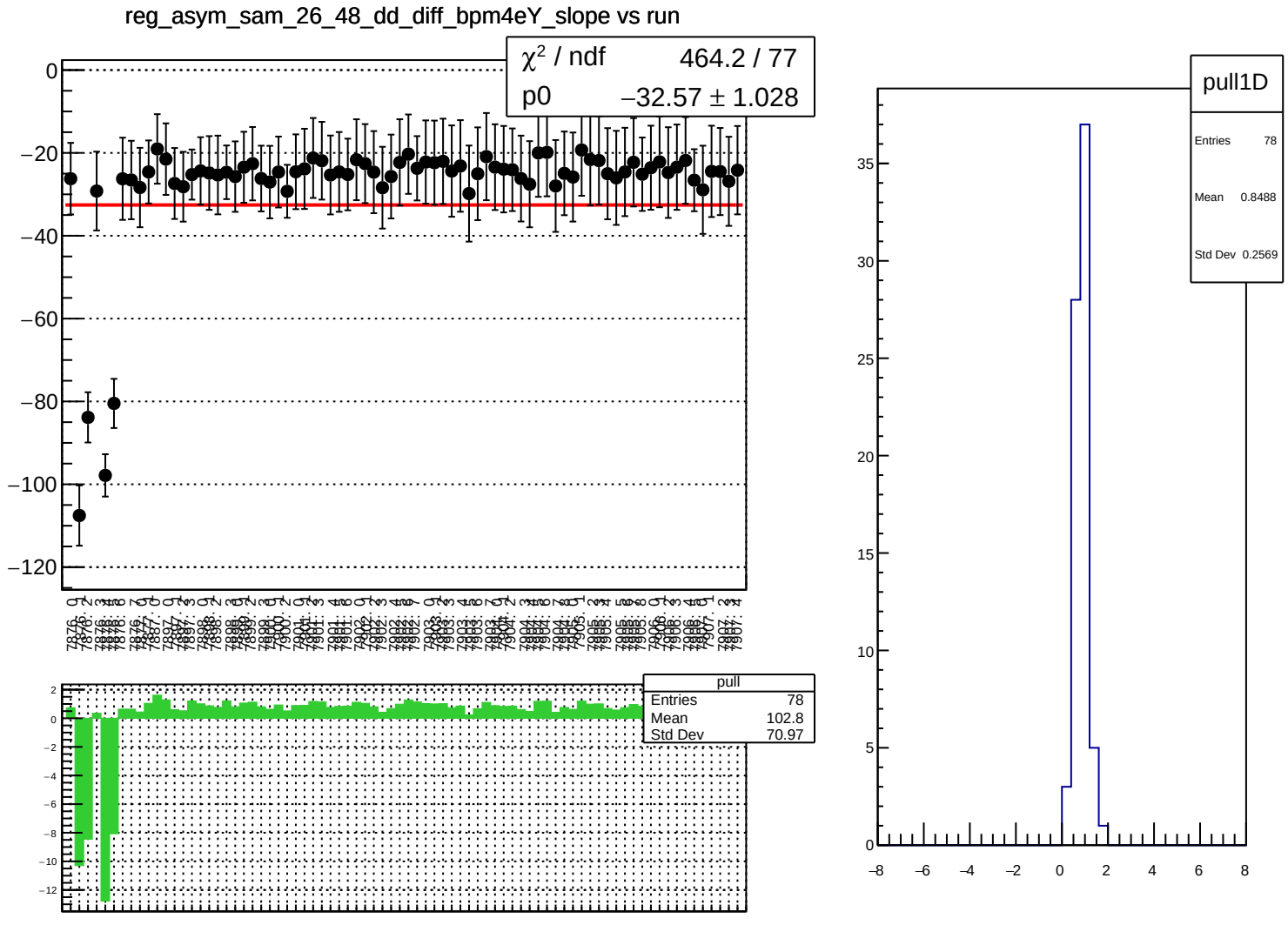

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 1.523 / 77
p0 −0.2683 ± 0.1898
pull
Entries 78
Mean 231.1
Std Dev 182.9
pull1D
Entries 78
Mean 0.003074
Std Dev 0.1397

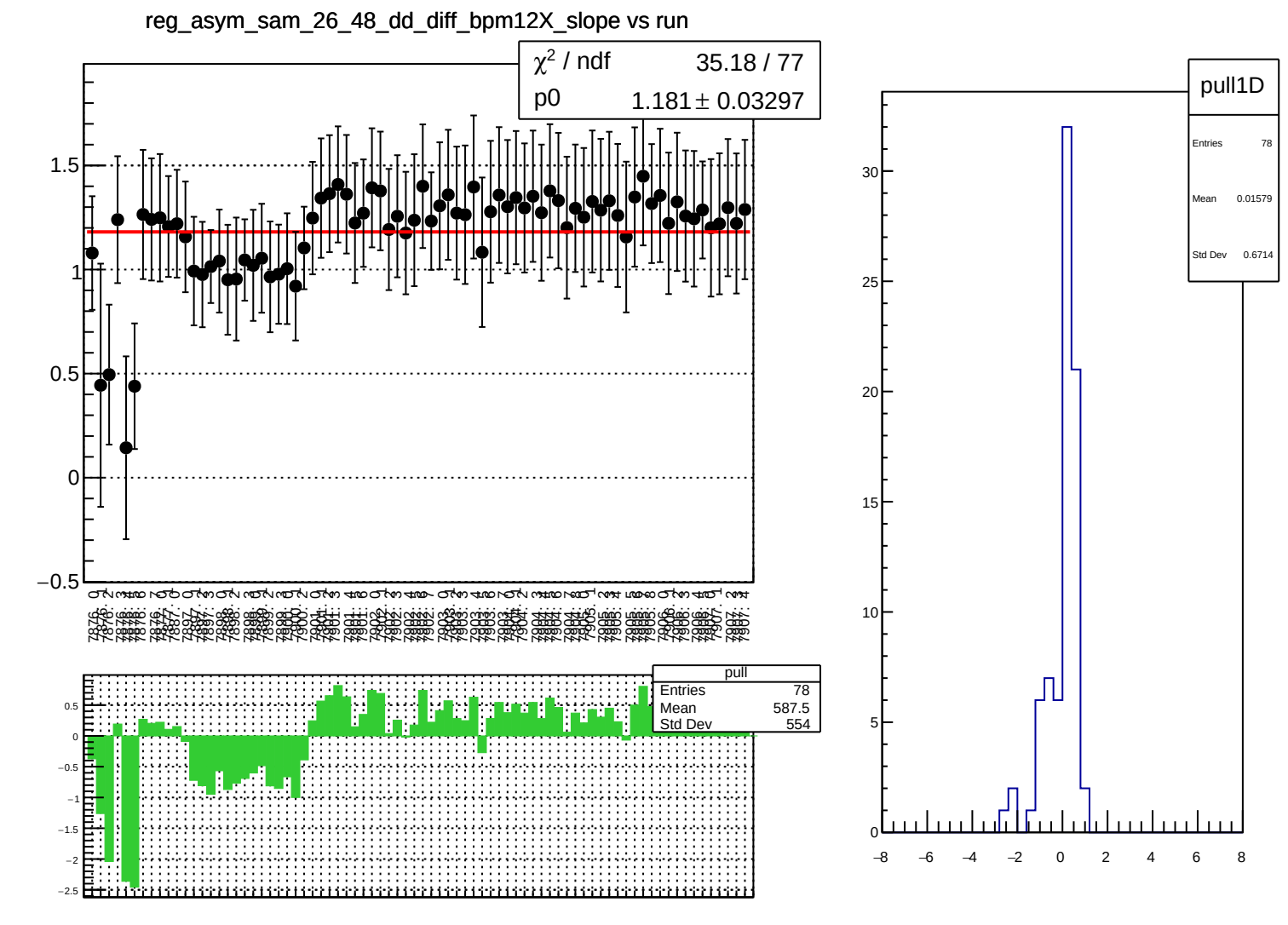

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 14.33 / 77
p0 1.205 ± 0.8097
pull
Entries 78
Mean 12.15
Std Dev 39.29
pull1D
Entries 78
Mean 0.04665
Std Dev 0.426

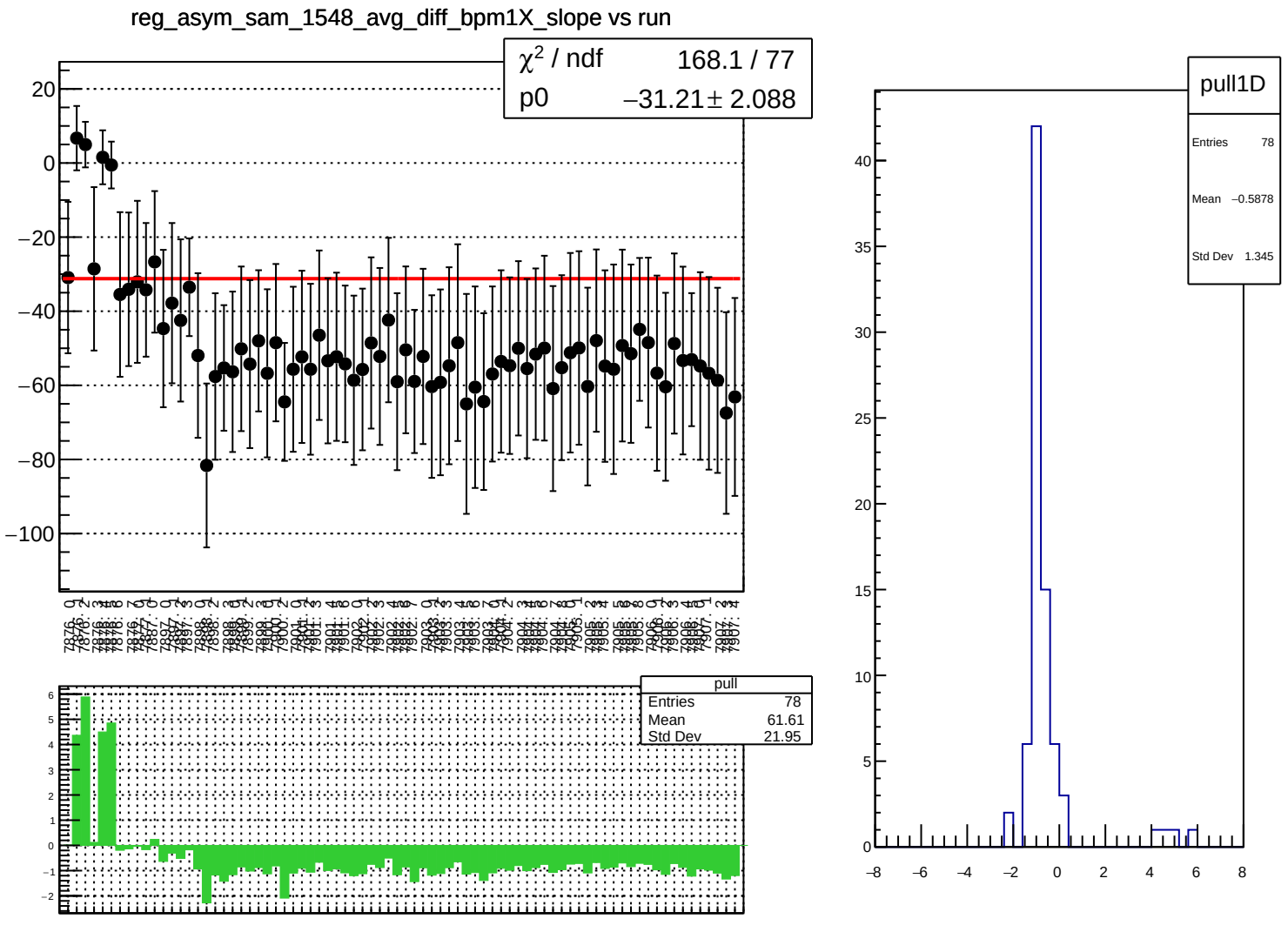

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 690.3 / 77
p0 −30.3 ± 0.8534
pull
Entries 78
Mean 69.66
Std Dev 35.42

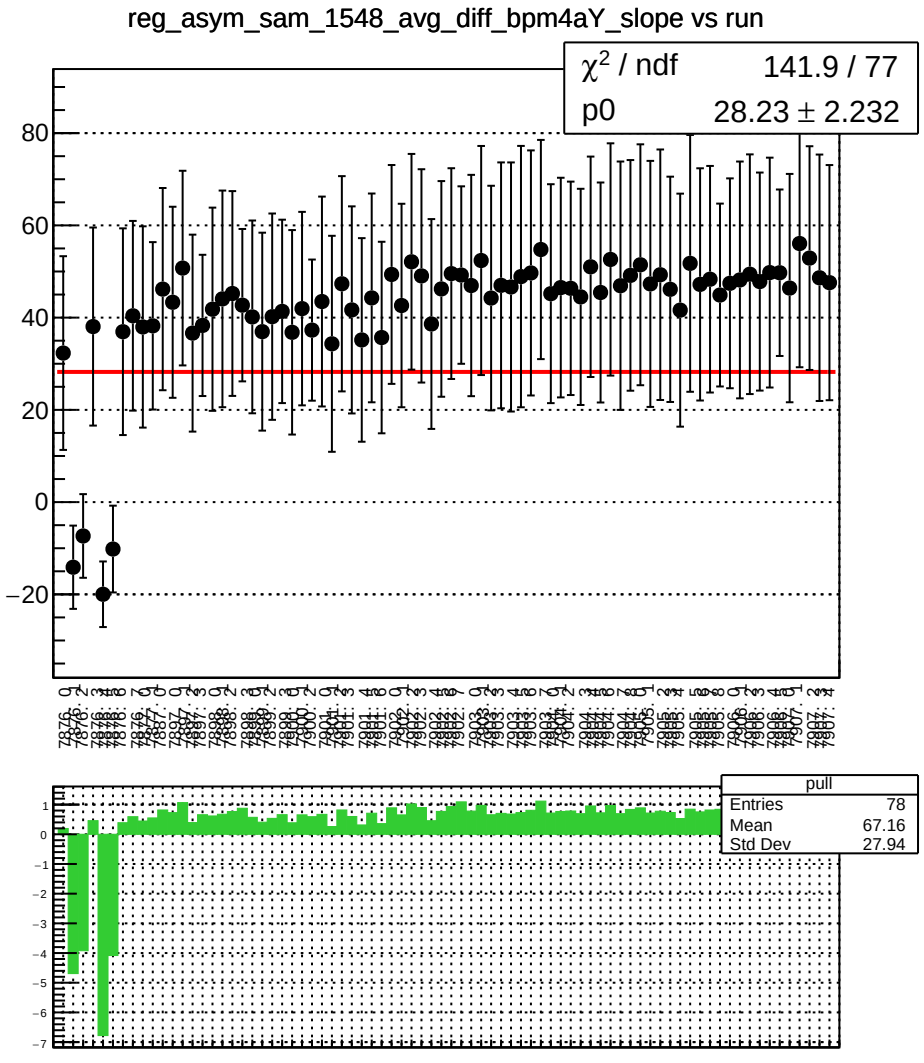

pull1D
Entries 78
Mean −1.286
Std Dev 0.34

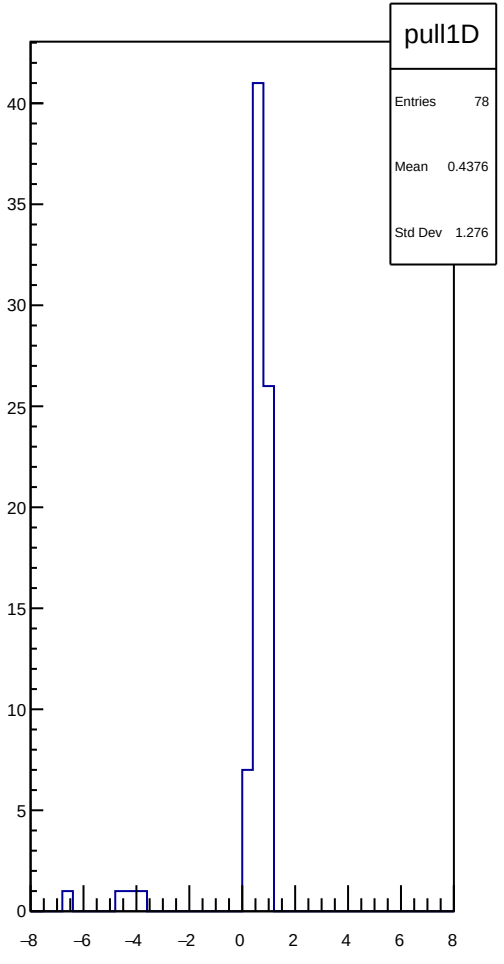

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.32 / 77
p0 19.31 ± 0.6636
pull
Entries 78
Mean −38.16
Std Dev 85.22
pull1D
Entries 78
Mean −0.04879
Std Dev 0.6112

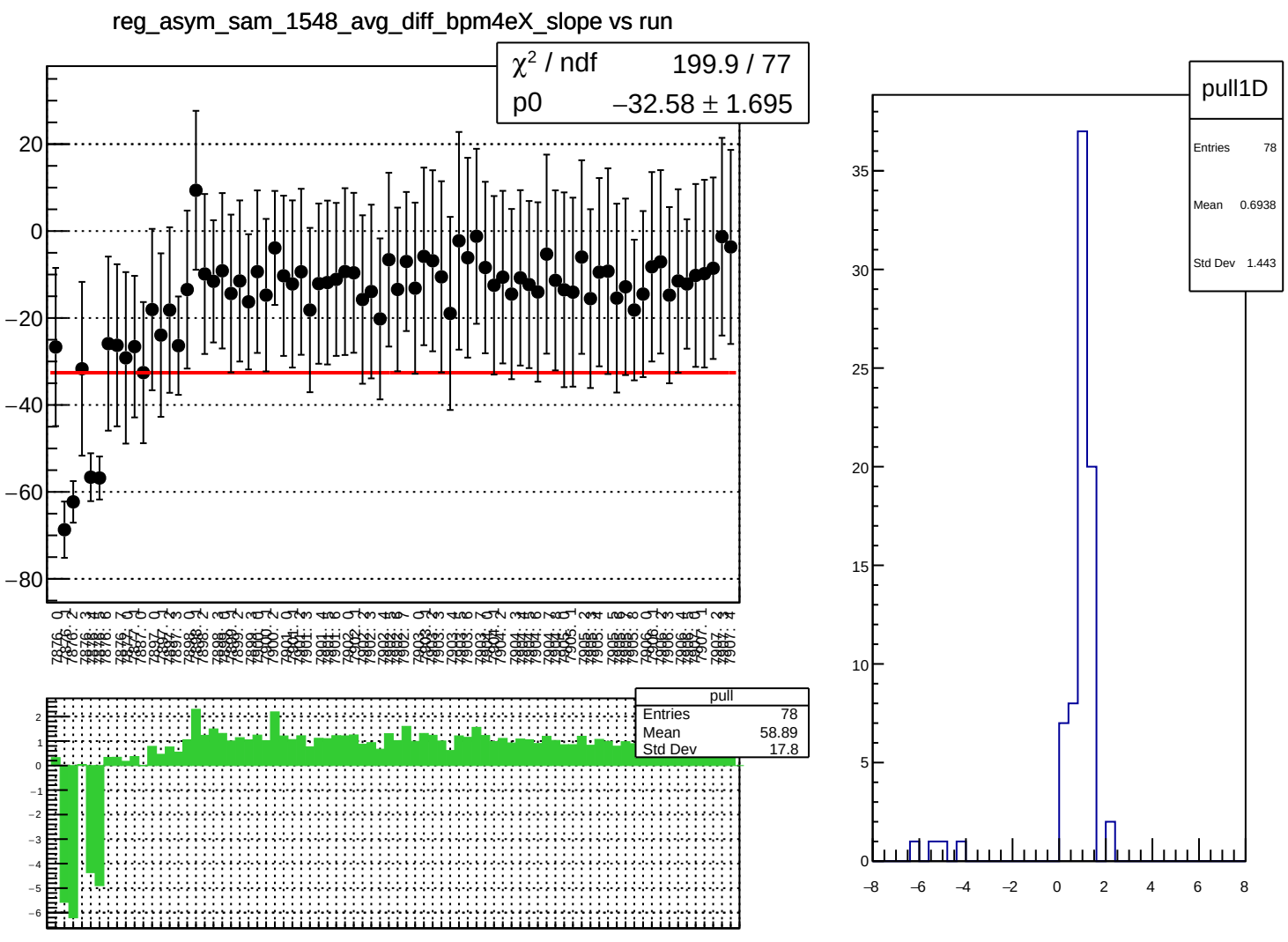

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 464.2 / 77
p0 −32.57 ± 1.028
pull
Entries 78
Mean 102.8
Std Dev 70.97
pull1D
Entries 78
Mean 0.8488
Std Dev 0.2569

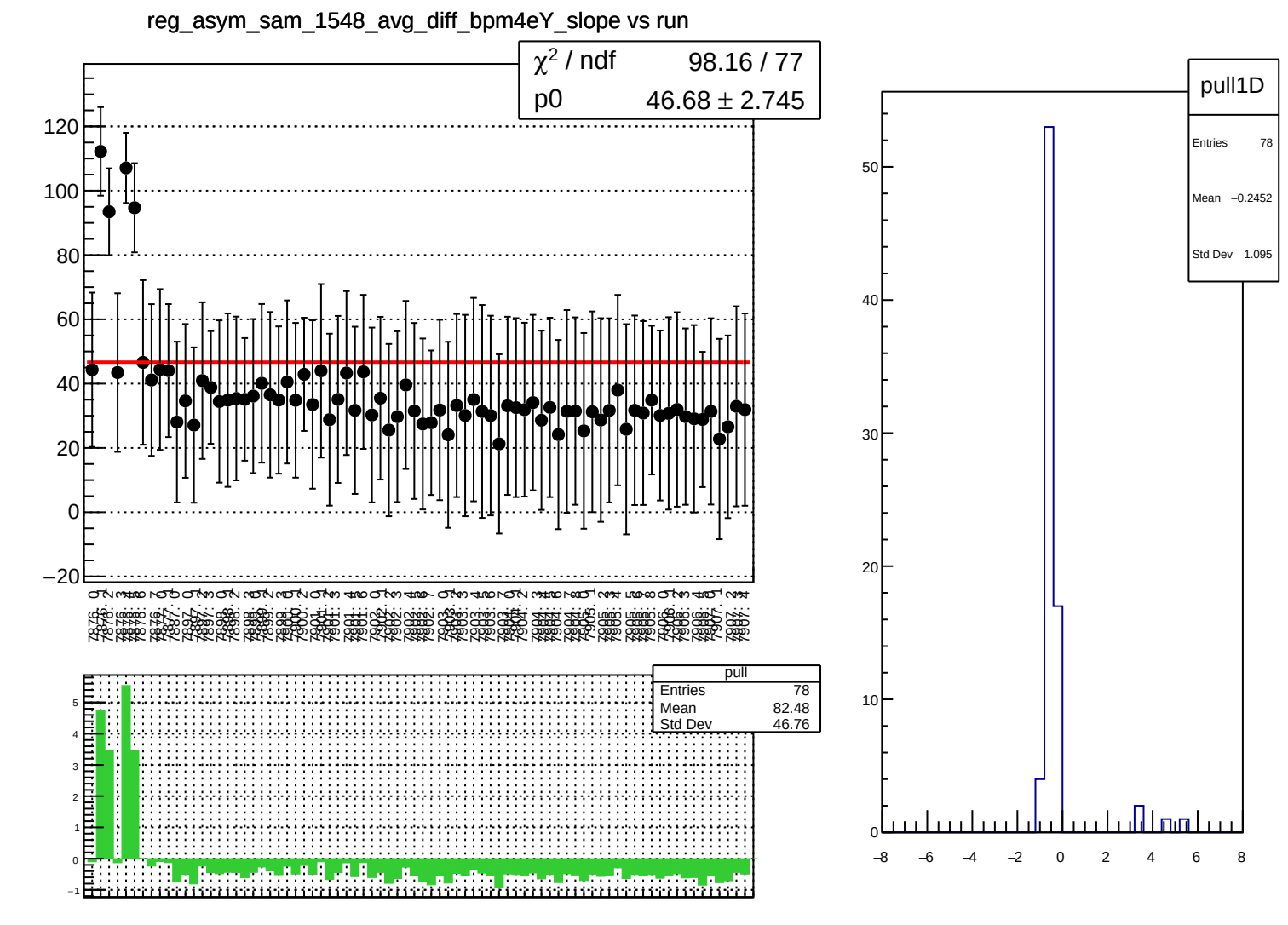

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 35.18 / 77
p0 1.181 ± 0.03297
pull
Entries 78
Mean 587.5
Std Dev 554
pull1D
Entries 78
Mean 0.01579
Std Dev 0.6714

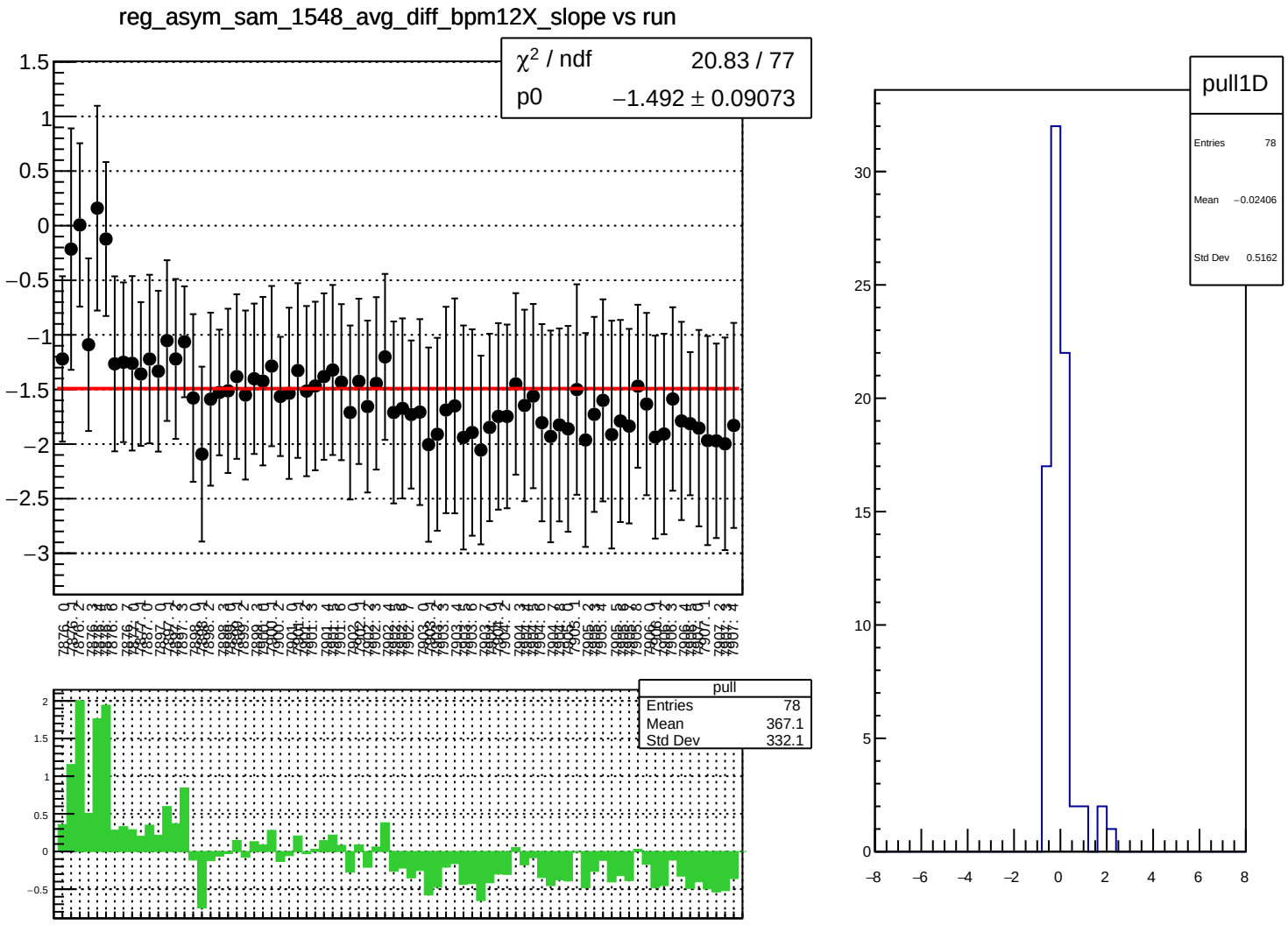

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 168.1 / 77
p0 −31.21 ± 2.088
pull
Entries 78
Mean 61.61
Std Dev 21.95
pull1D
Entries 78
Mean −0.5878
Std Dev 1.345

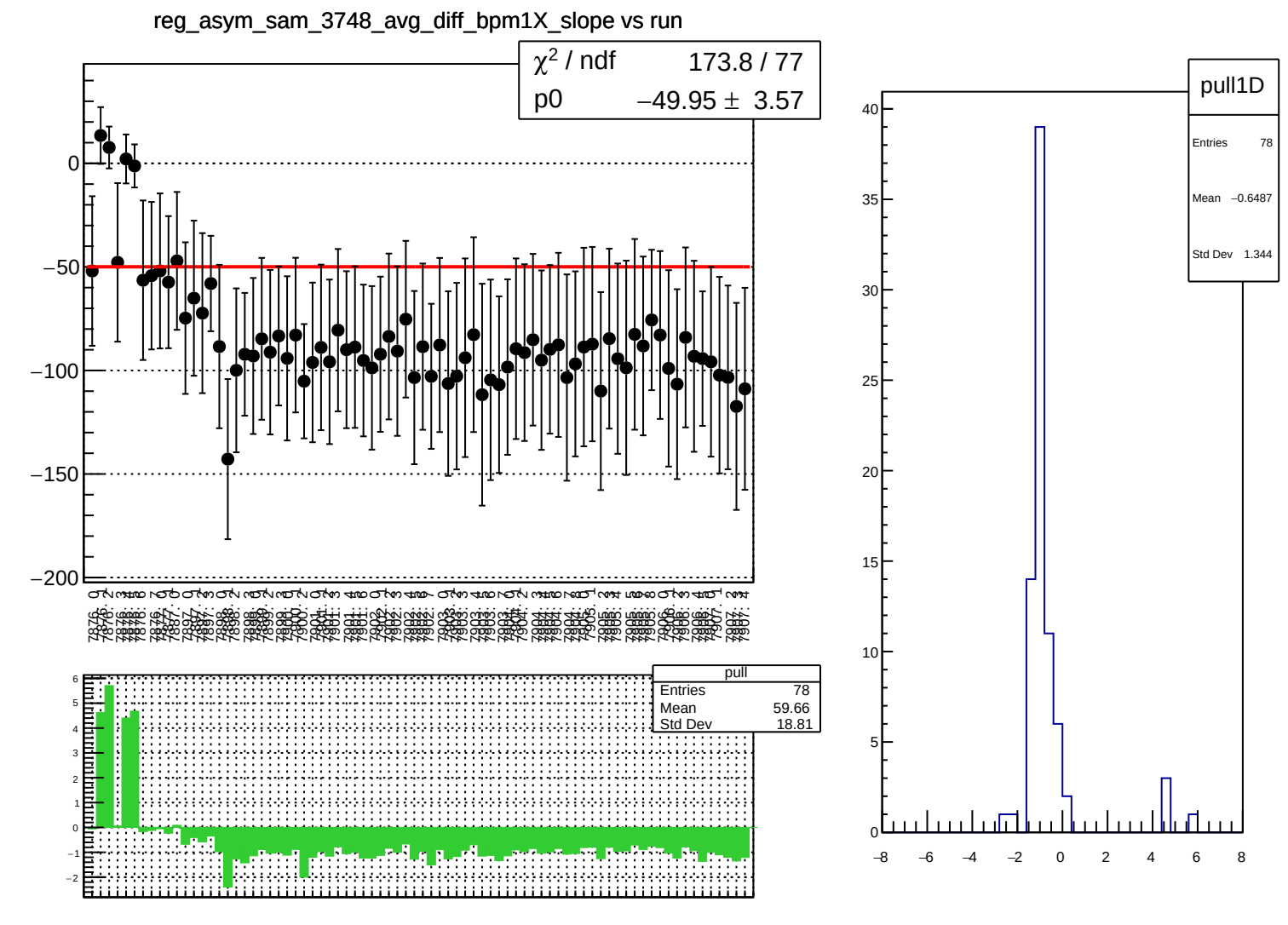

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 141.9 / 77
p0 28.23 ± 2.232
pull
Entries 78
Mean 67.16
Std Dev 27.94

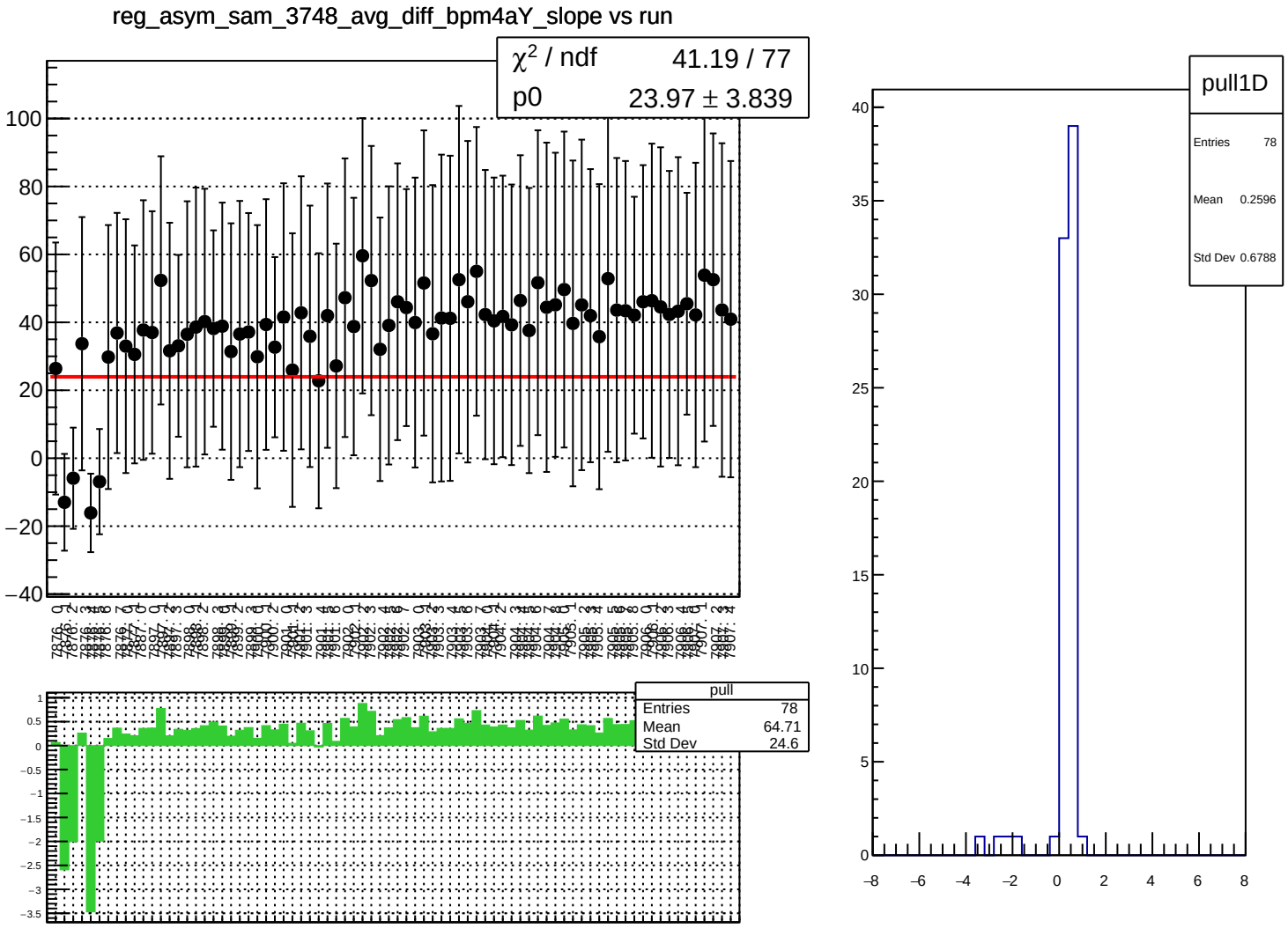

pull1D
Entries 78
Mean 0.4376
Std Dev 1.276

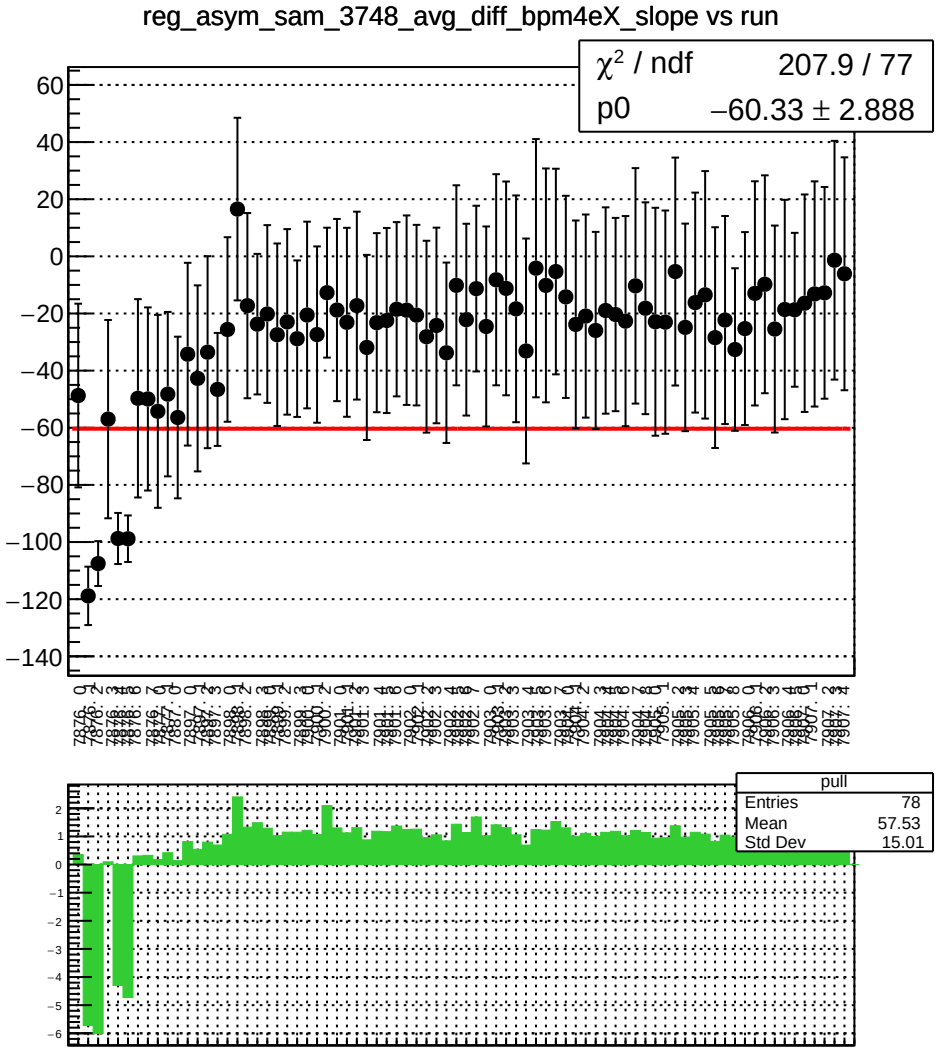

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 199.9 / 77
p0 −32.58 ± 1.695
pull
Entries 78
Mean 58.89
Std Dev 17.8
pull1D
Entries 78
Mean 0.6938
Std Dev 1.443

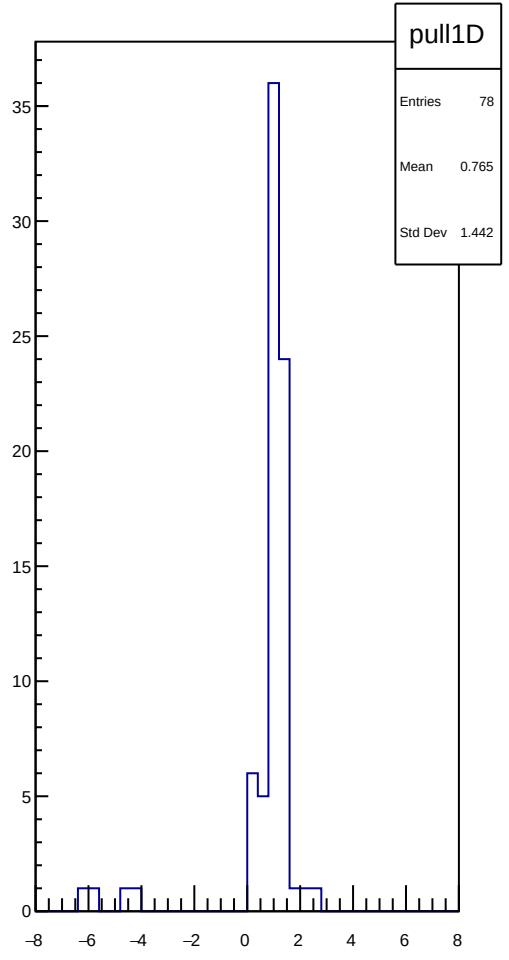

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 98.16 / 77
p0 46.68 ± 2.745
pull
Entries 78
Mean 82.48
Std Dev 46.76
pull1D
Entries 78
Mean −0.2452
Std Dev 1.095

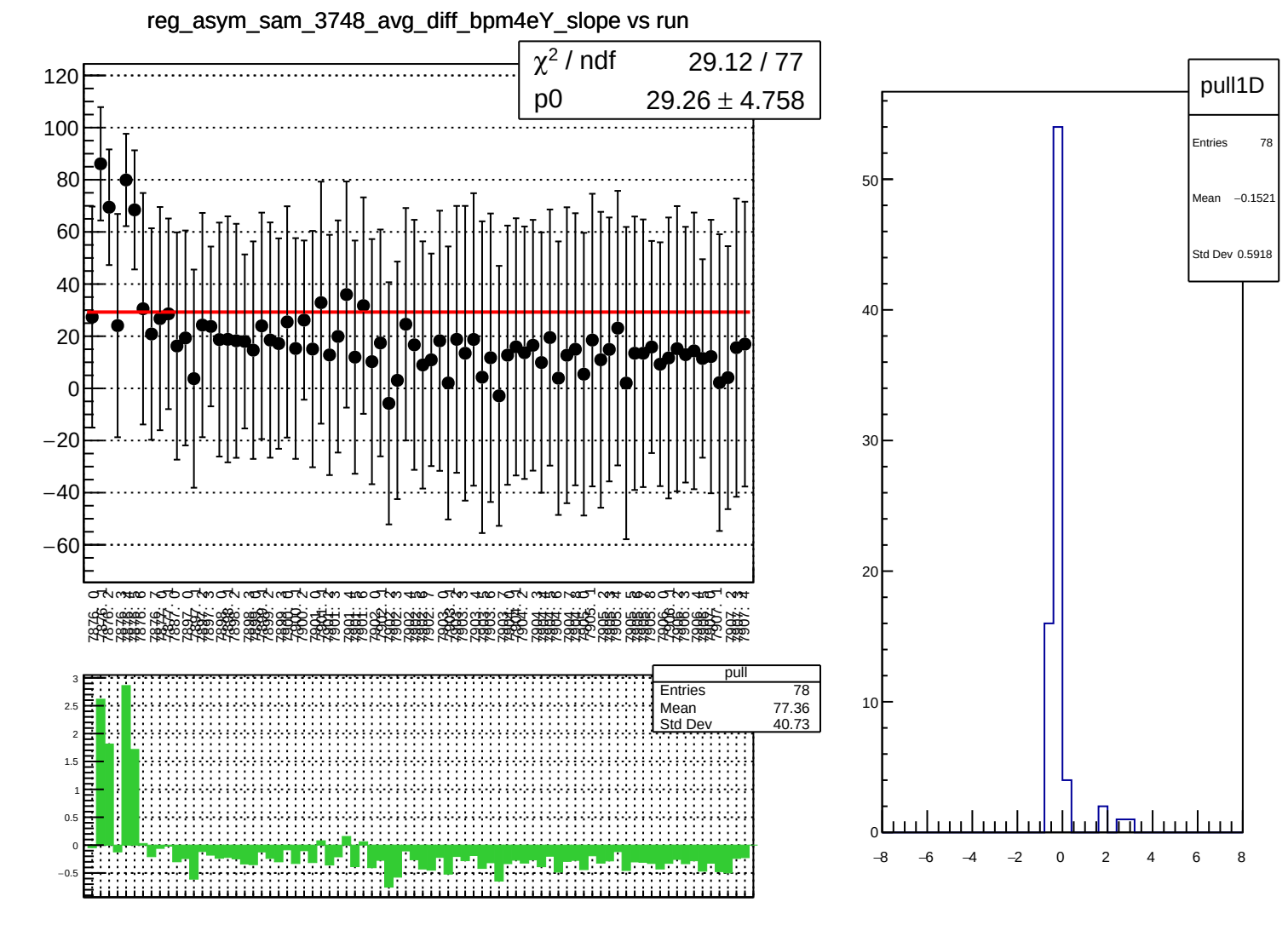

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 20.83 / 77
p0 −1.492 ± 0.09073
pull
Entries 78
Mean 367.1
Std Dev 332.1
pull1D
Entries 78
Mean −0.02406
Std Dev 0.5162

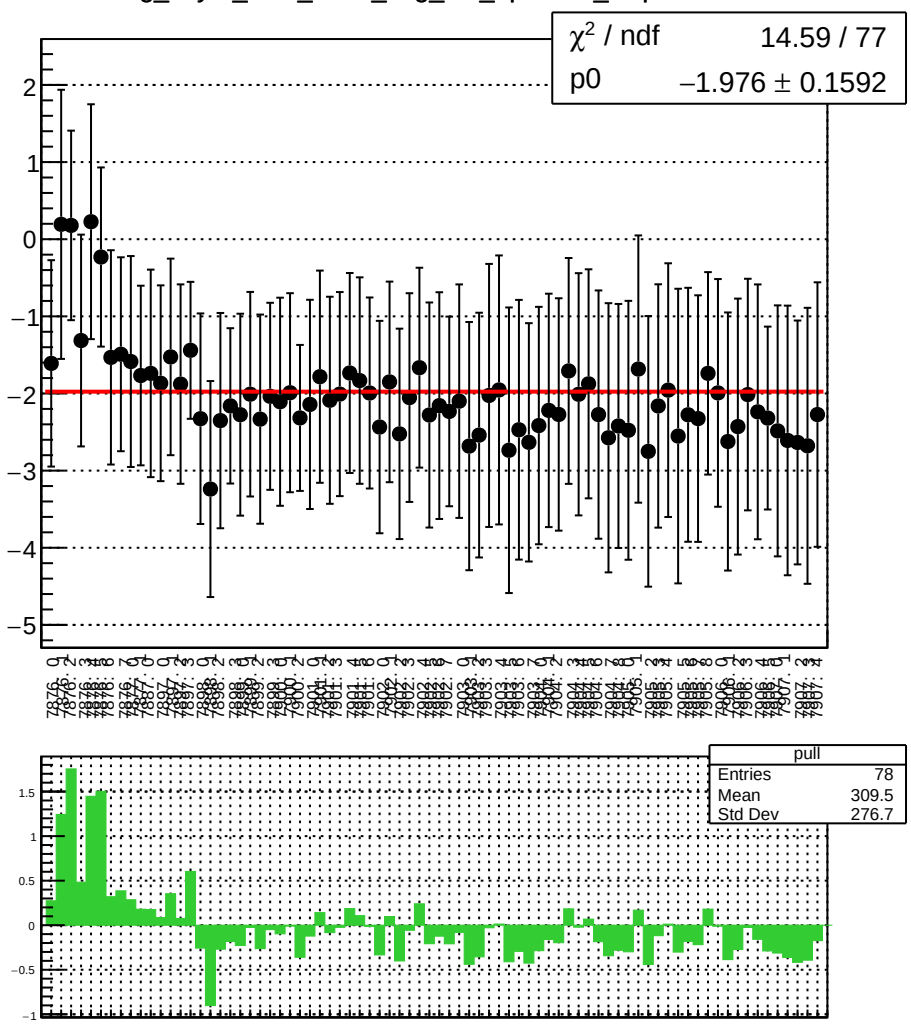

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 173.8 / 77
p0 −49.95 ± 3.57
0
−50
−100
−150
−200
pull
Entries 78
Mean 59.66
Std Dev 18.81
pull1D
Entries 78
Mean −0.6487
Std Dev 1.344

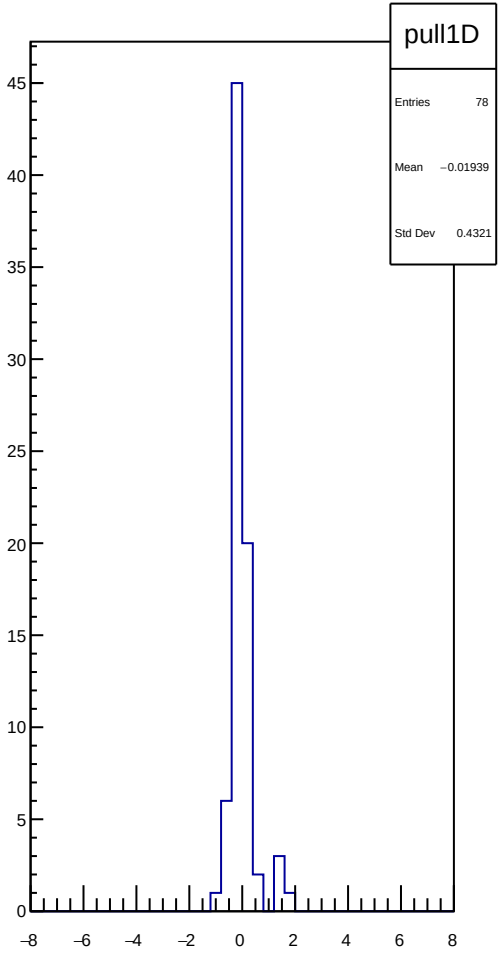

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.19 / 77
p0 23.97 ± 3.839
pull
Entries 78
Mean 64.71
Std Dev 24.6
pull1D
Entries 78
Mean 0.2596
Std Dev 0.6788

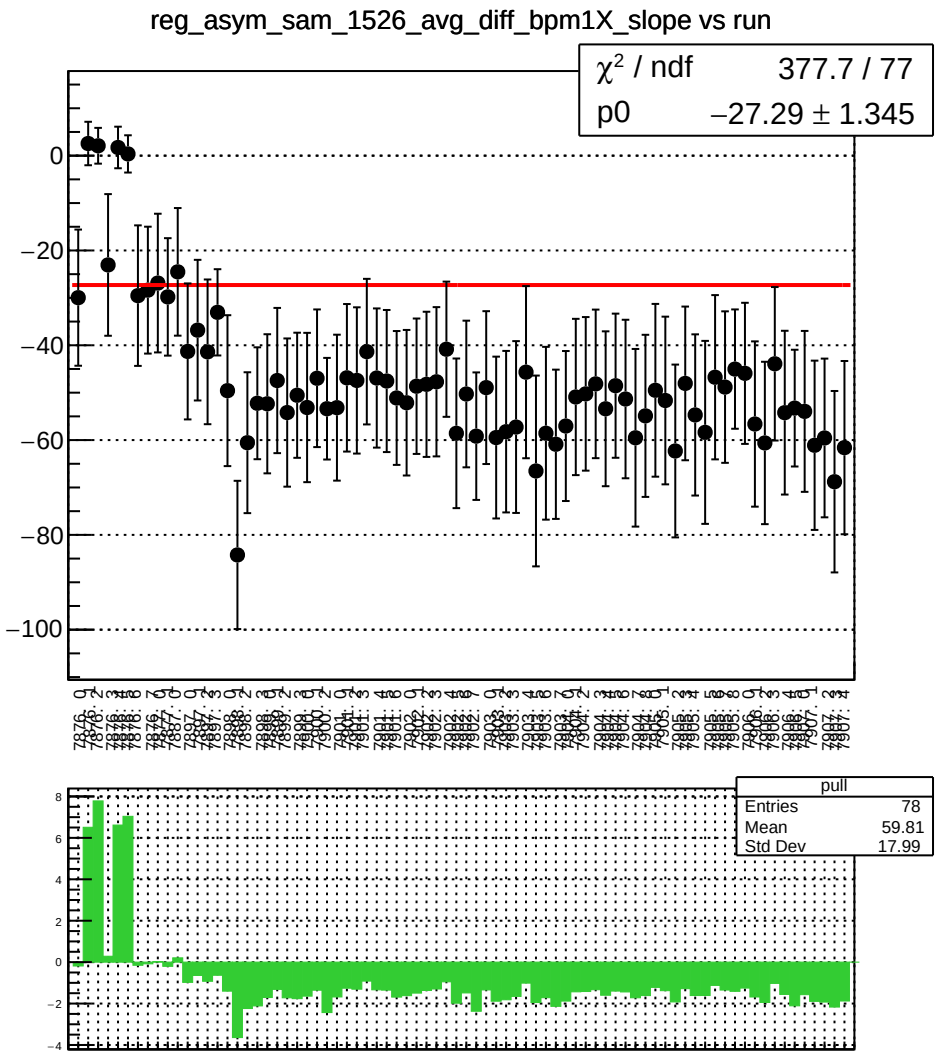

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 207.9 / 77
p0 −60.33 ± 2.888
pull
Entries 78
Mean 57.53
Std Dev 15.01

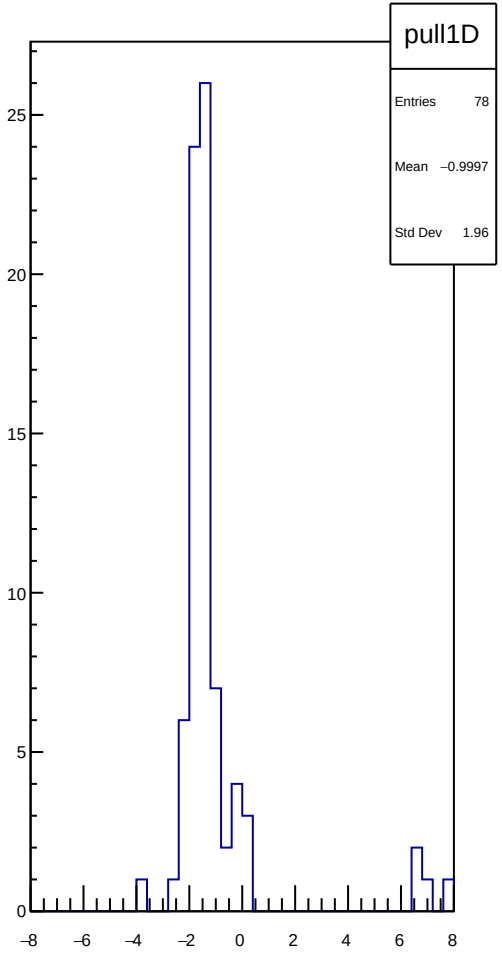

pull1D
Entries 78
Mean 0.765
Std Dev 1.442

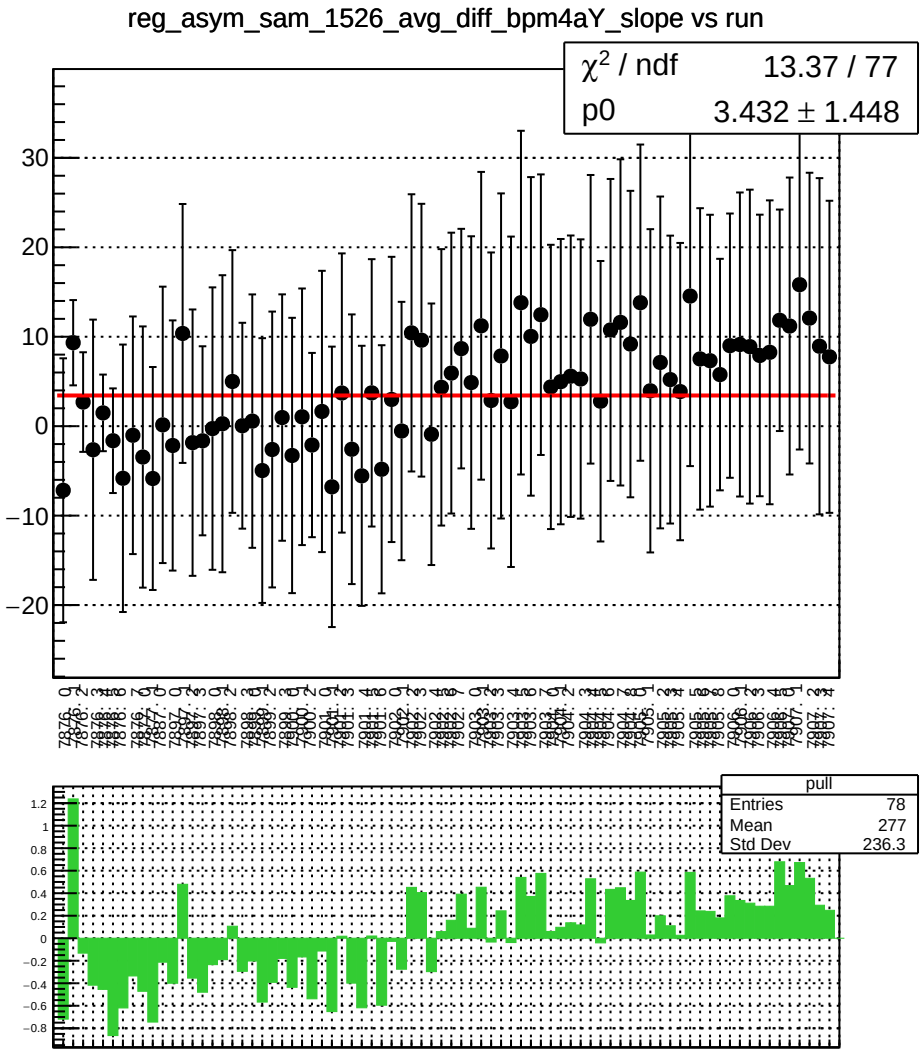

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.12 / 77
p0 29.26 ± 4.758
pull
Entries 78
Mean 77.36
Std Dev 40.73
pull1D
Entries 78
Mean −0.1521
Std Dev 0.5918

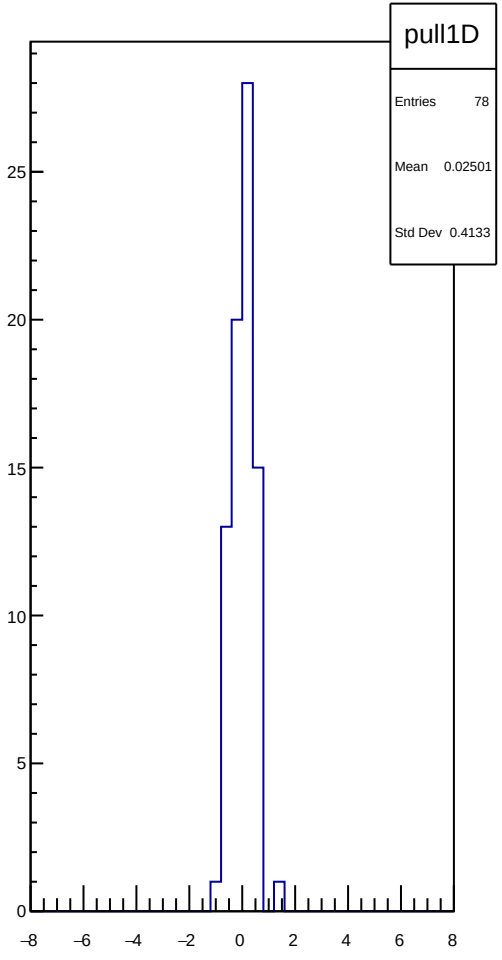

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 14.59 / 77
p0 −1.976 ± 0.1592
pull
Entries 78
Mean 309.5
Std Dev 276.7

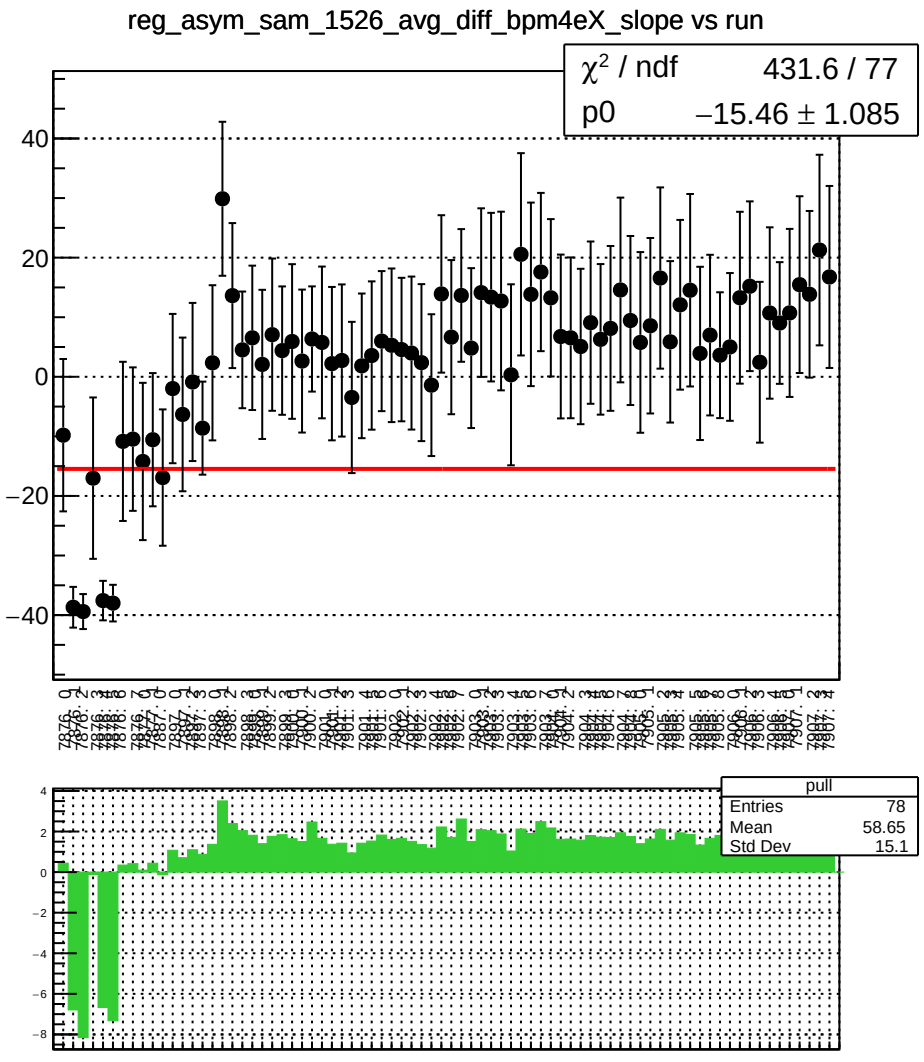

pull1D
Entries 78
Mean −0.01939
Std Dev 0.4321

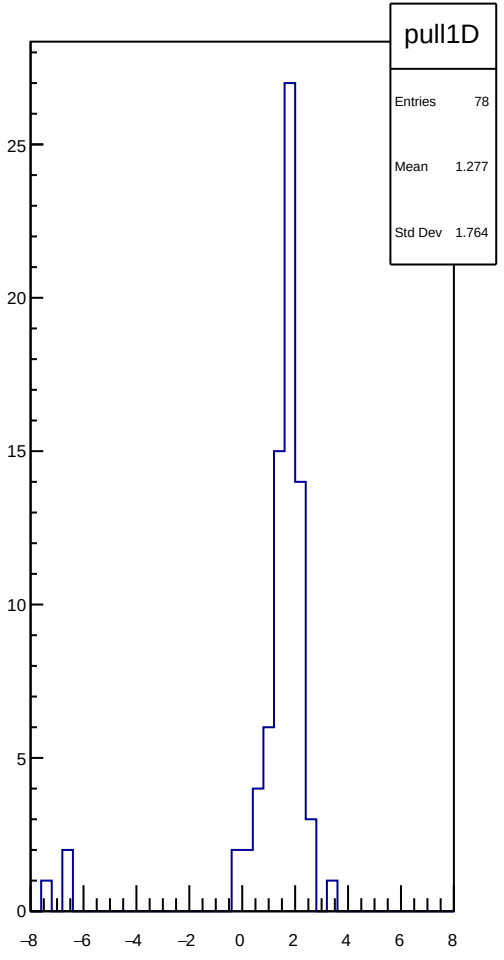

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 377.7 / 77
p0 −27.29 ± 1.345
pull
Entries 78
Mean 59.81
Std Dev 17.99

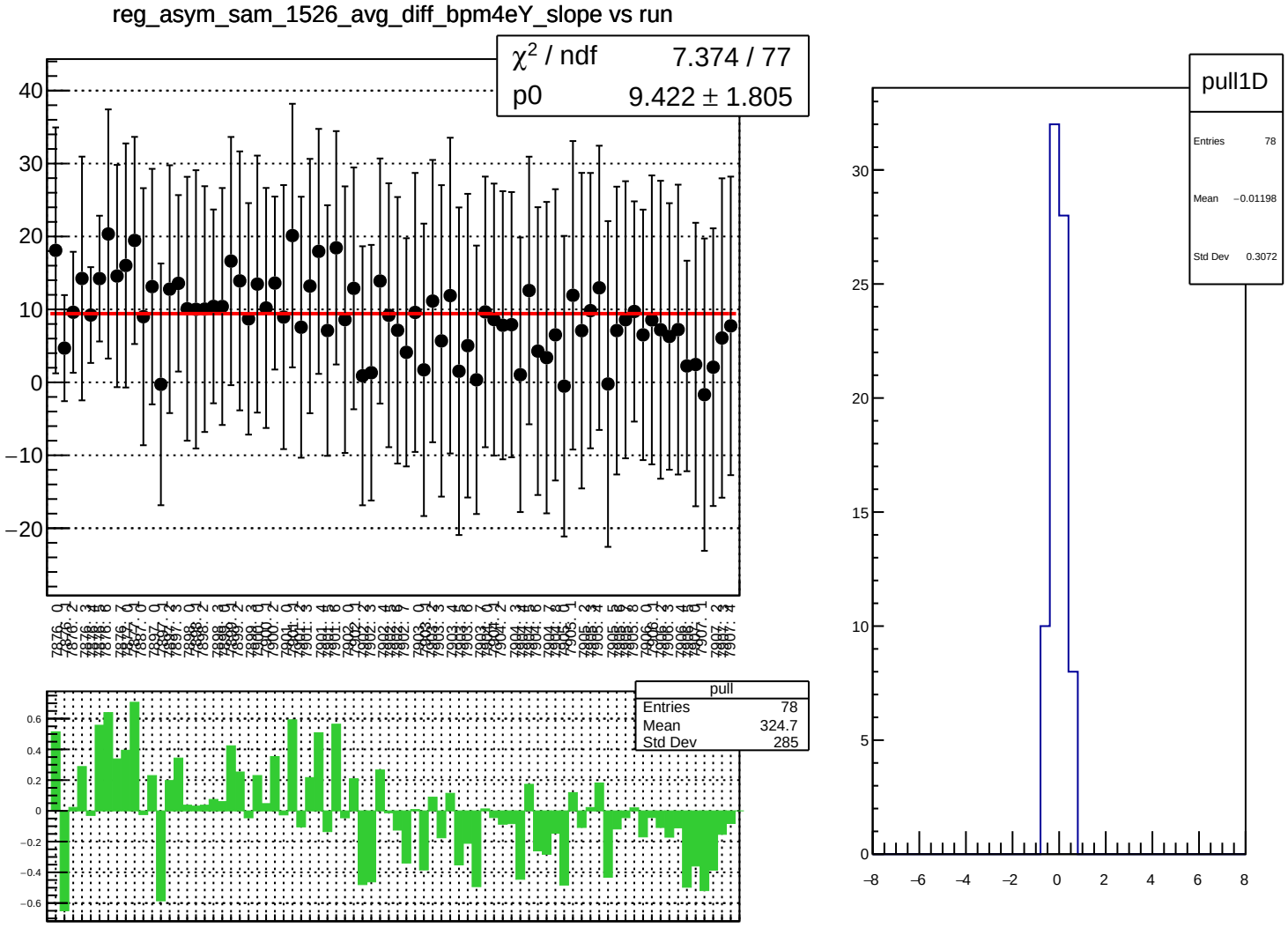

pull1D
Entries 78
Mean −0.9997
Std Dev 1.96

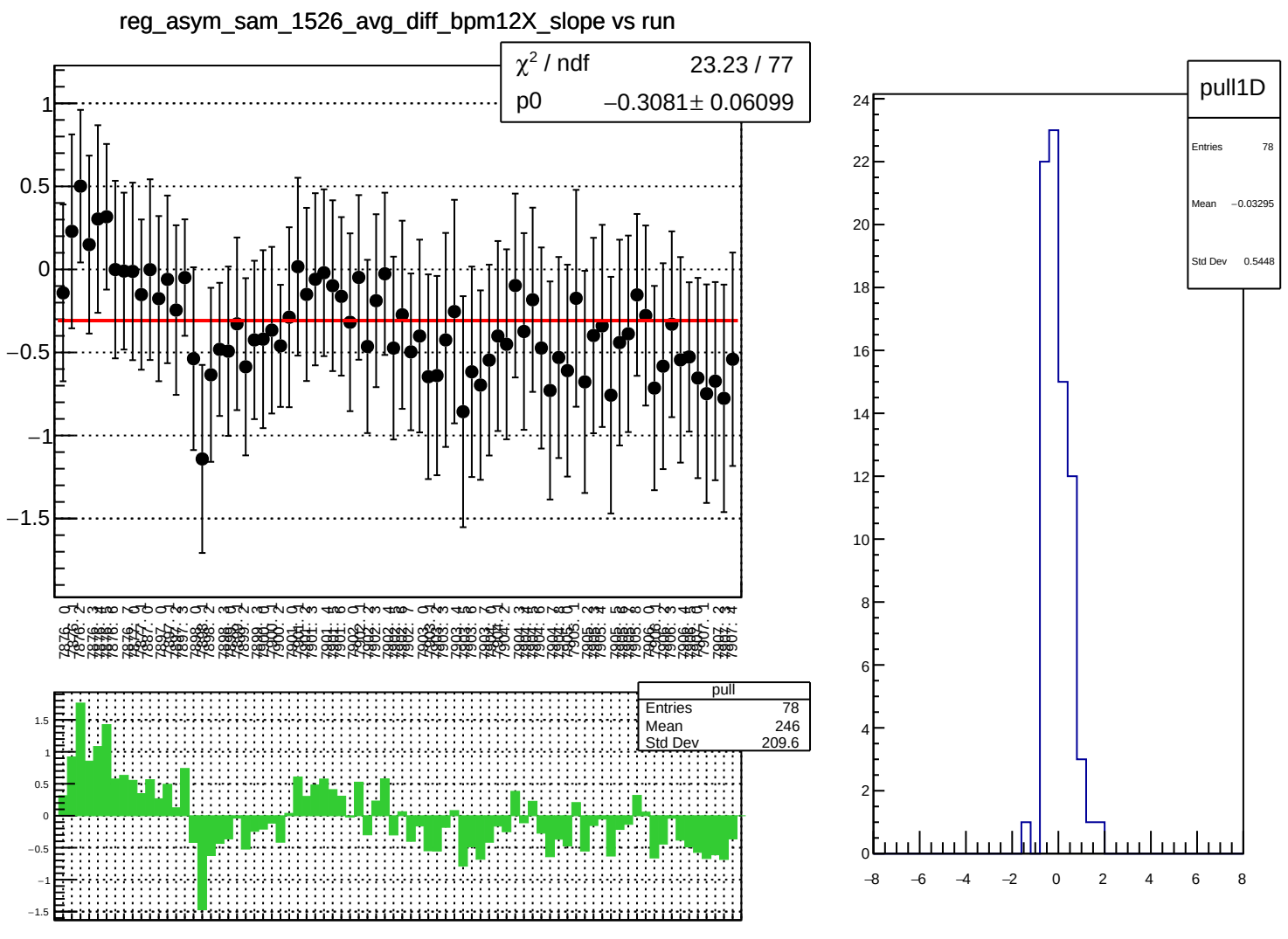

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.37 / 77
p0 3.432 ± 1.448
pull
Entries 78
Mean 277
Std Dev 236.3

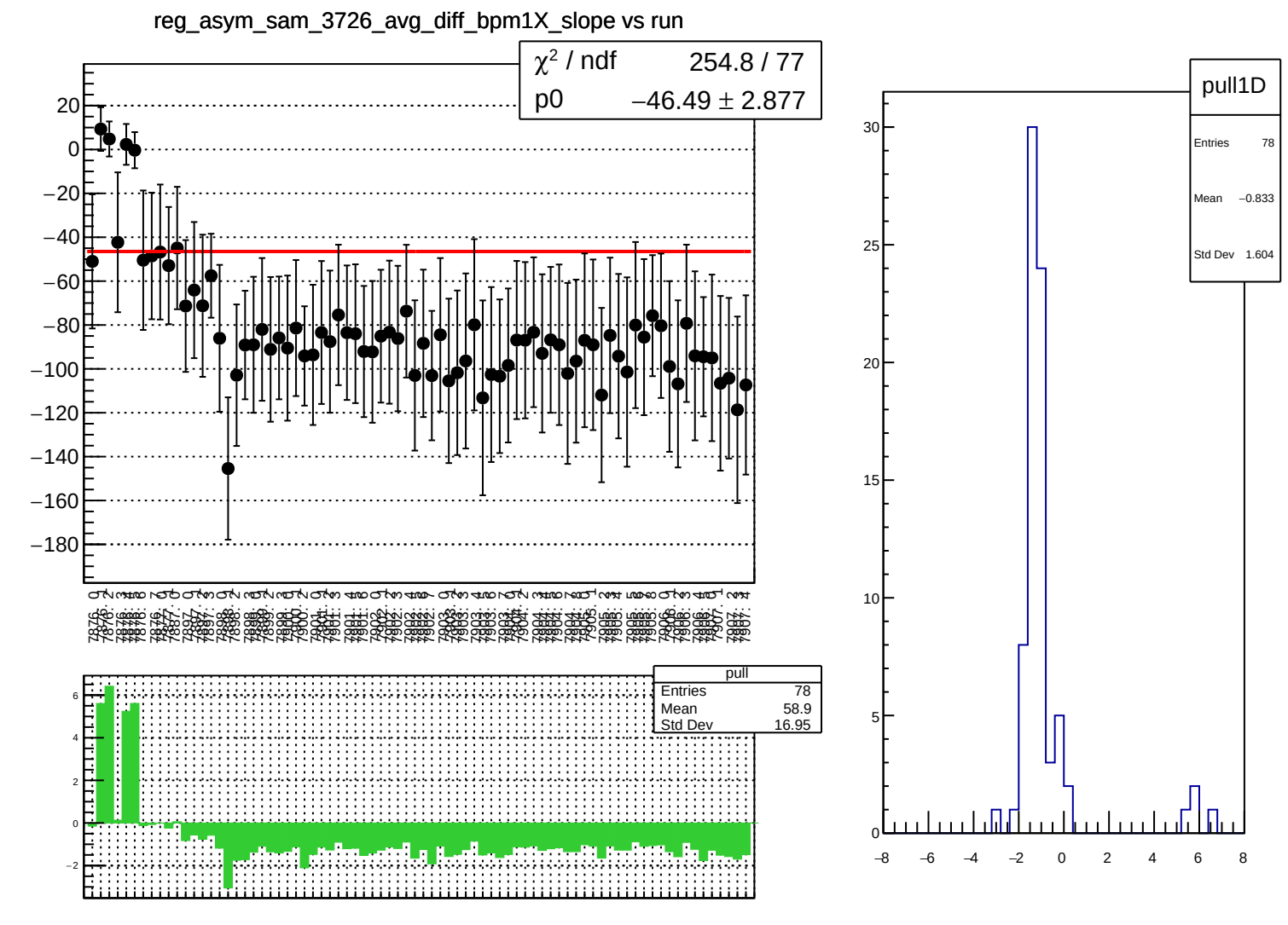

pull1D
Entries 78
Mean 0.02501
Std Dev 0.4133

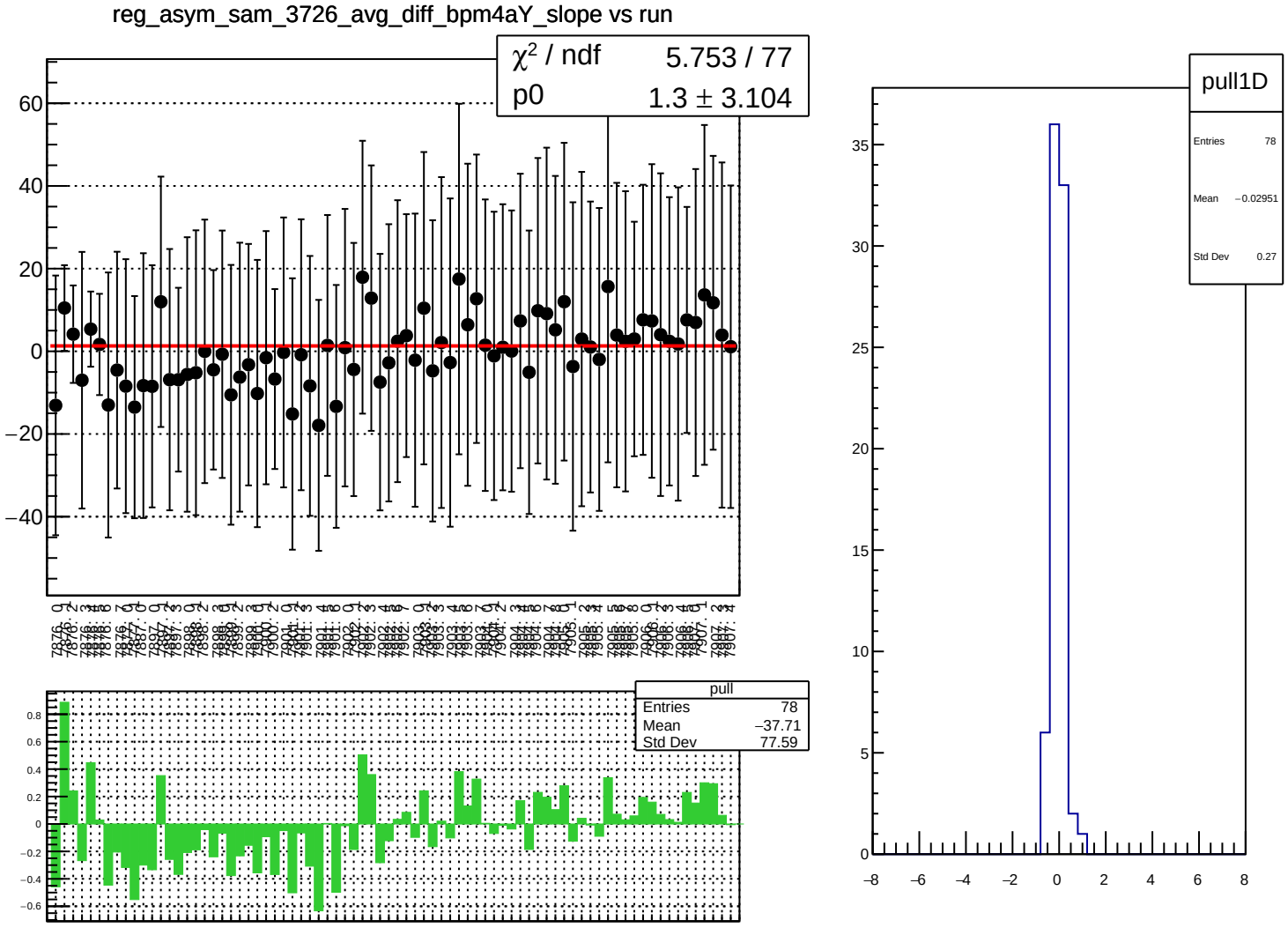

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 431.6 / 77
p0 −15.46 ± 1.085
40
20
0
−20
−40
pull
Entries 78
Mean 58.65
Std Dev 15.1
4
2
0
−2
−4
−6
−8

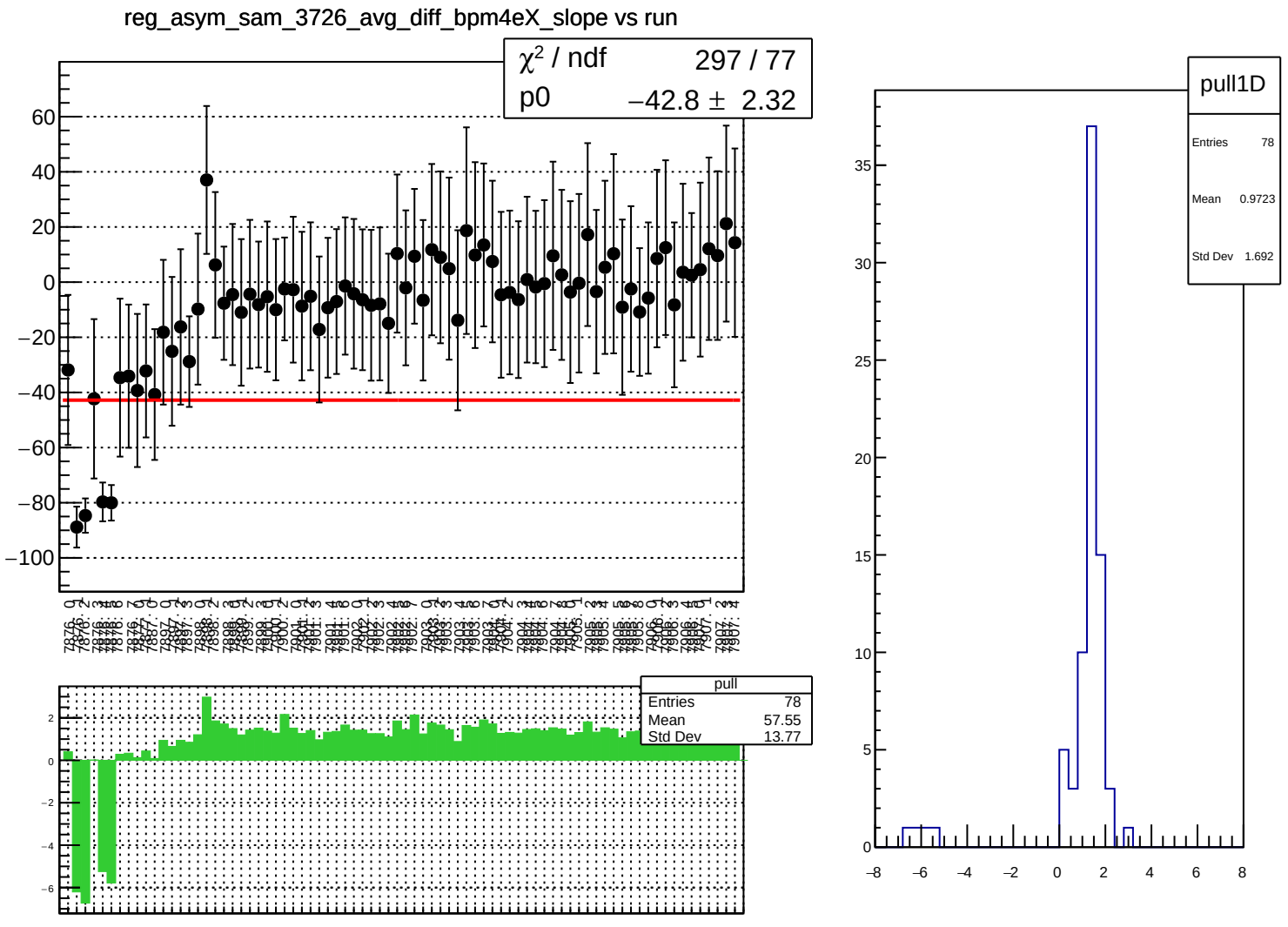

pull1D
Entries 78
Mean 1.277
Std Dev 1.764
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

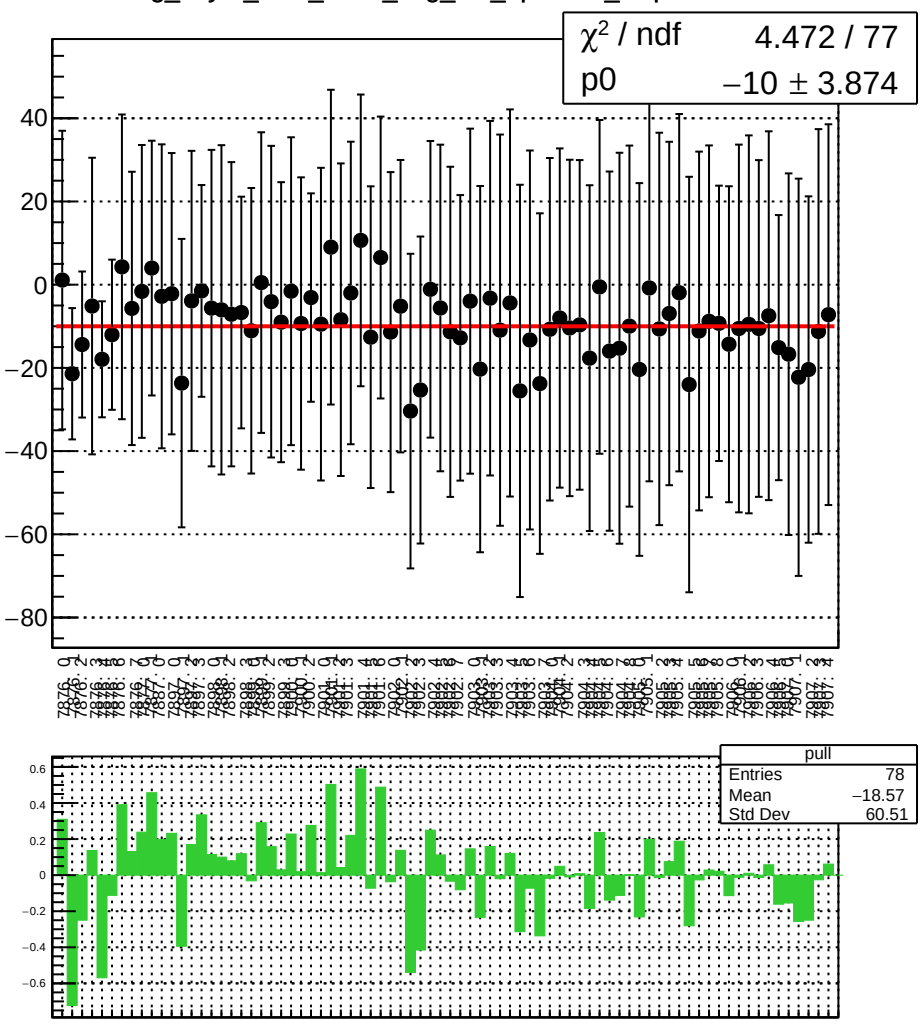

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.374 / 77
p0 9.422 ± 1.805
pull
Entries 78
Mean 324.7
Std Dev 285
pull1D
Entries 78
Mean −0.01198
Std Dev 0.3072

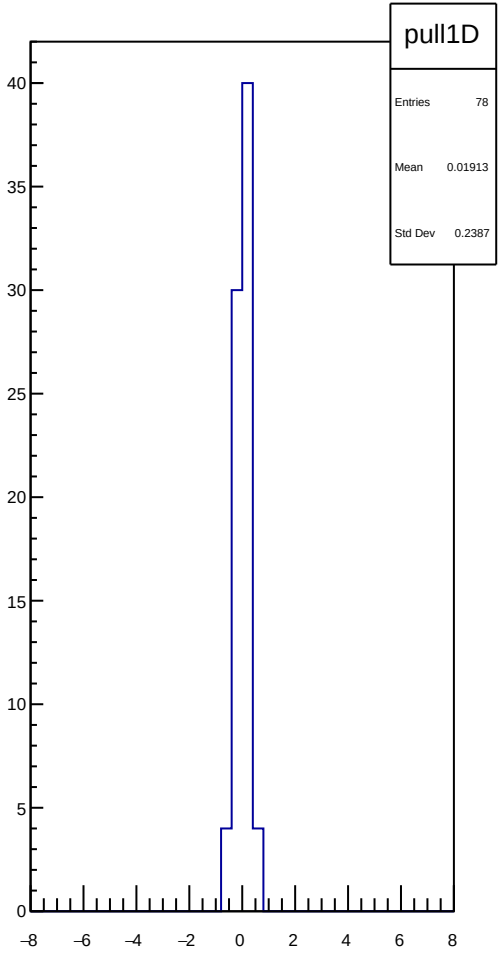

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 23.23 / 77
p0 −0.3081± 0.06099
pull
Entries 78
Mean 246
Std Dev 209.6
pull1D
Entries 78
Mean −0.03295
Std Dev 0.5448

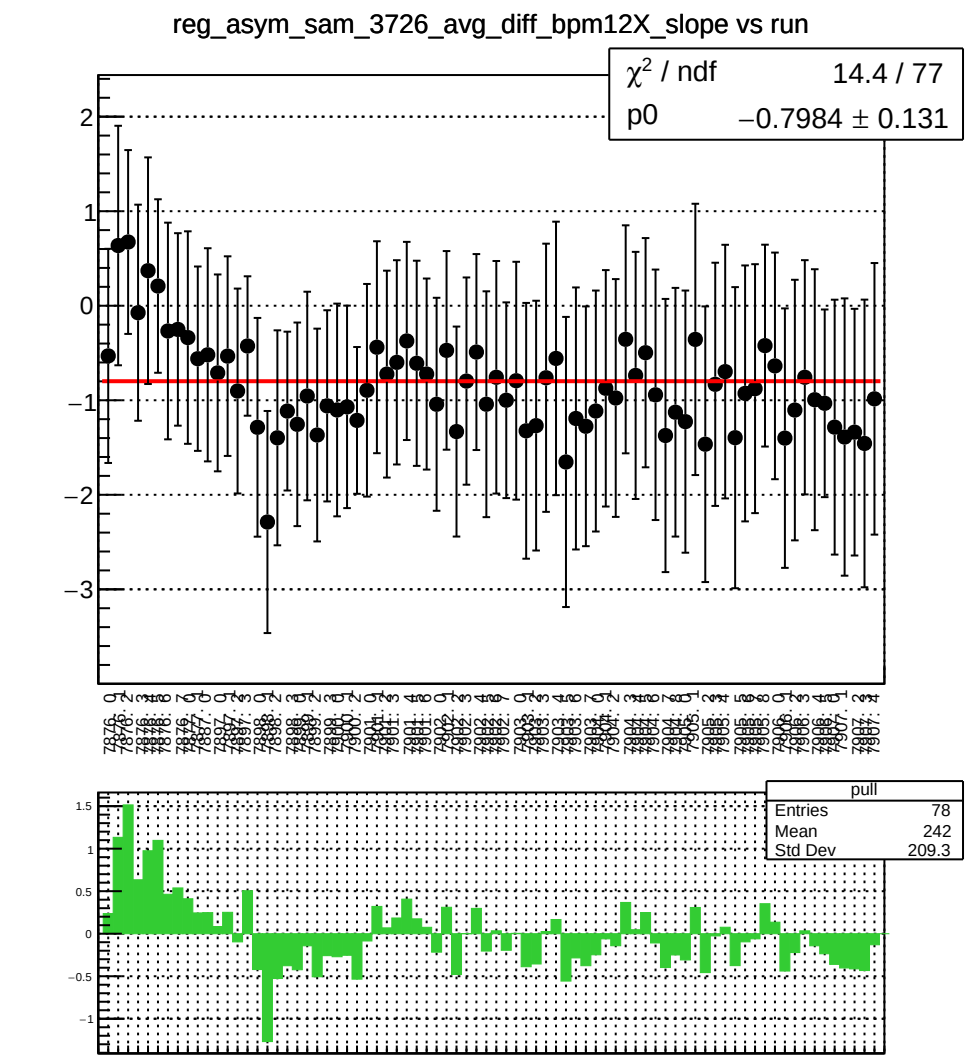

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 254.8 / 77
p0 −46.49 ± 2.877
pull
Entries 78
Mean 58.9
Std Dev 16.95
pull1D
Entries 78
Mean −0.833
Std Dev 1.604

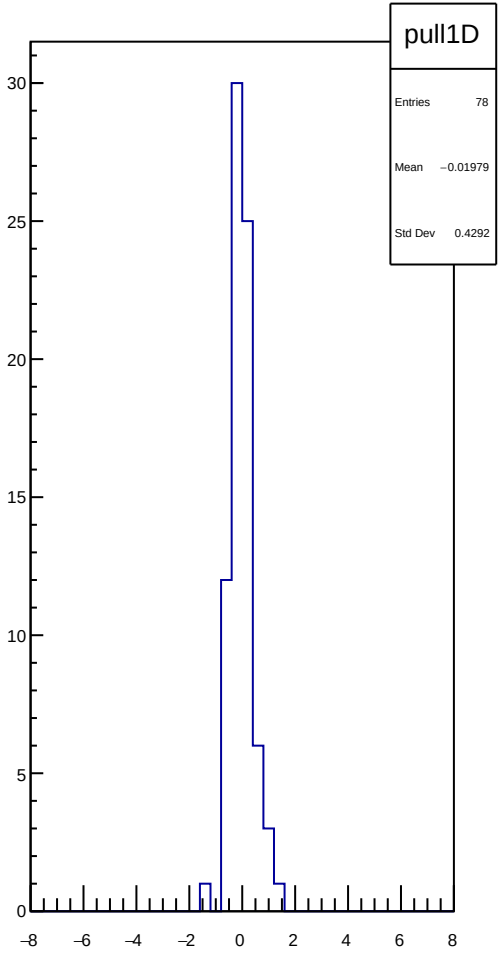

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.753 / 77
p0 1.3 ± 3.104
pull
Entries 78
Mean −37.71
Std Dev 77.59
pull1D
Entries 78
Mean −0.02951
Std Dev 0.27

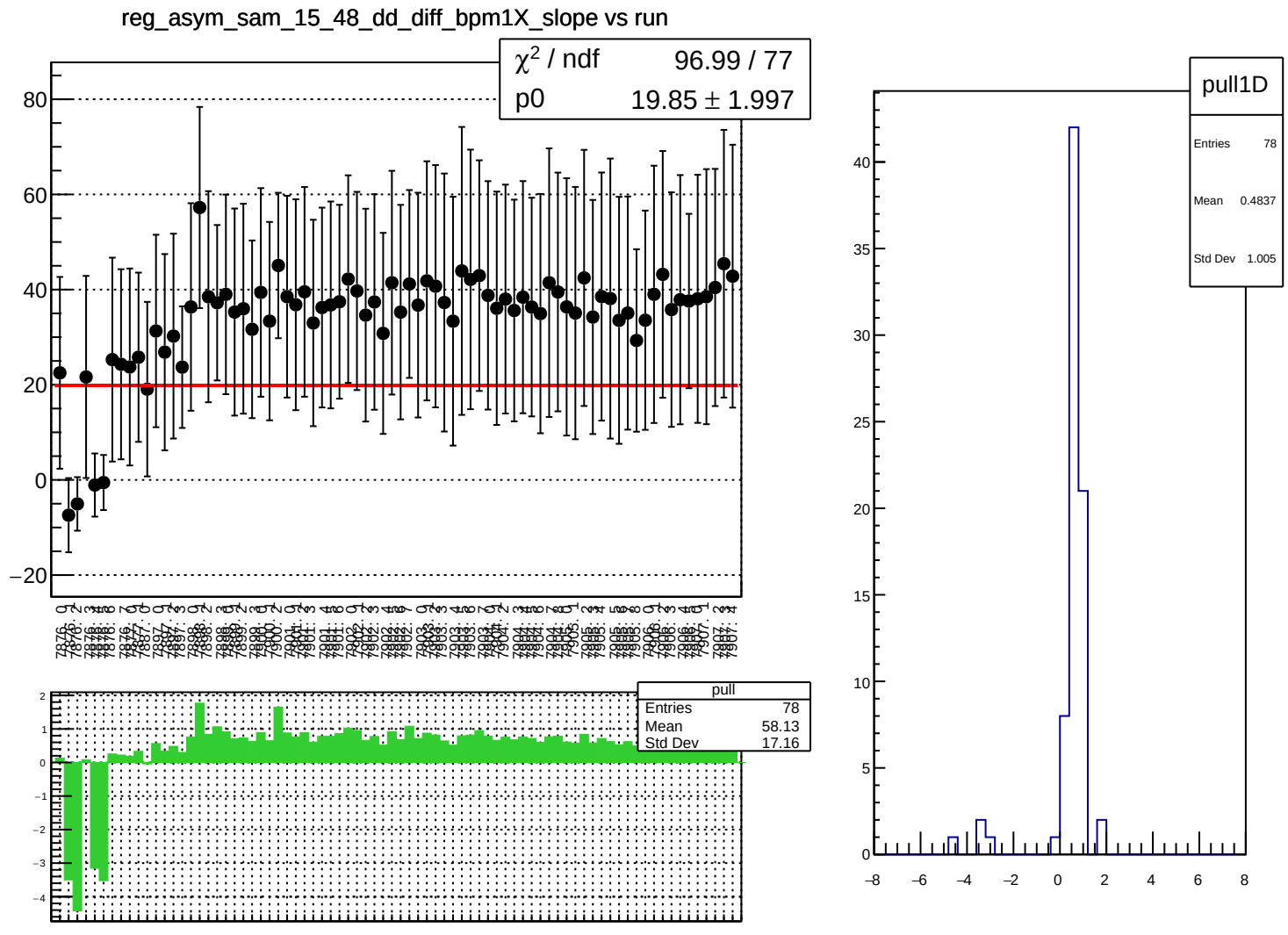

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 297 / 77
p0 −42.8 ± 2.32
pull
Entries 78
Mean 57.55
Std Dev 13.77
pull1D
Entries 78
Mean 0.9723
Std Dev 1.692

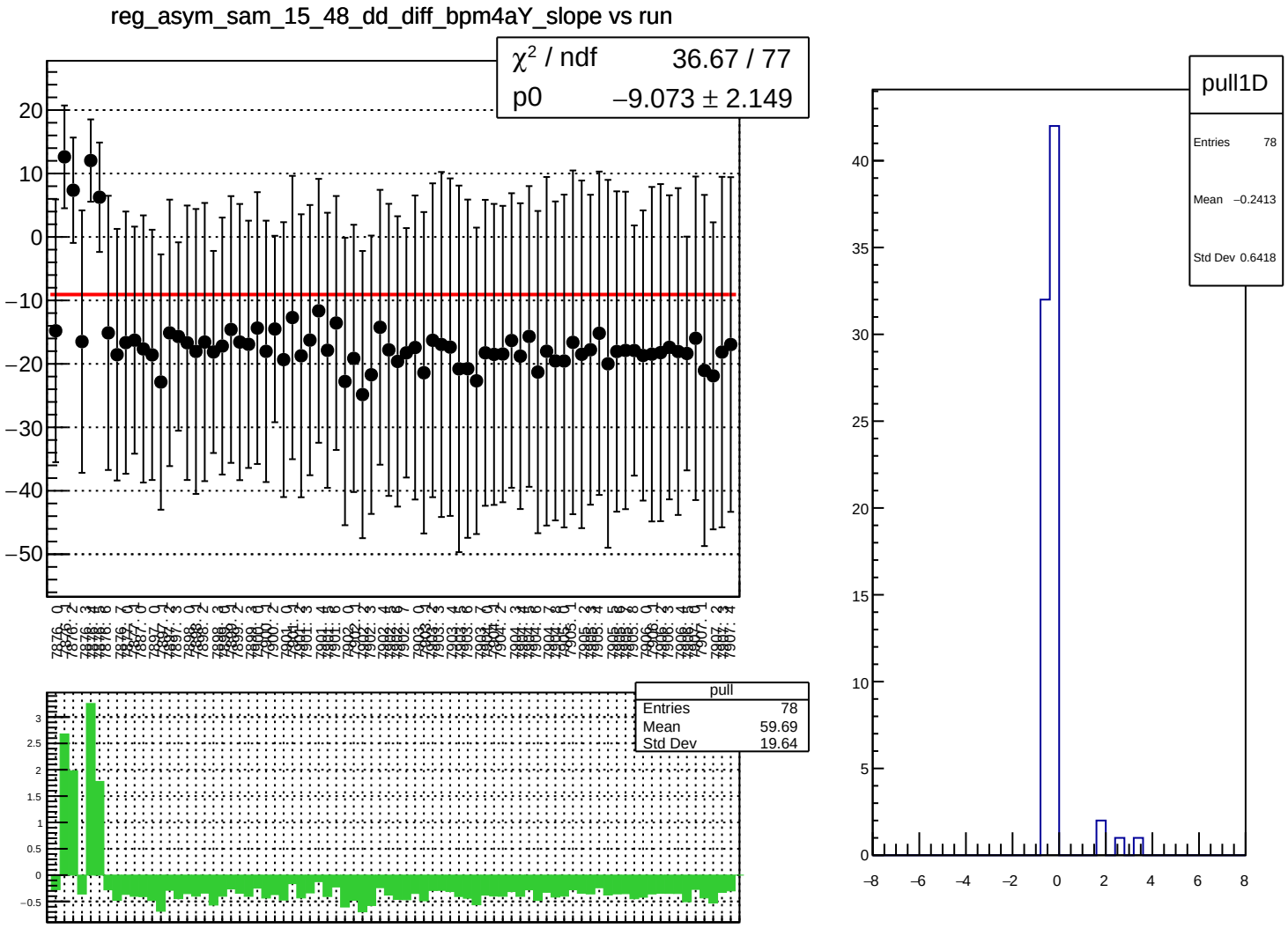

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.472 / 77
p0 −10 ± 3.874
pull
Entries 78
Mean −18.57
Std Dev 60.51

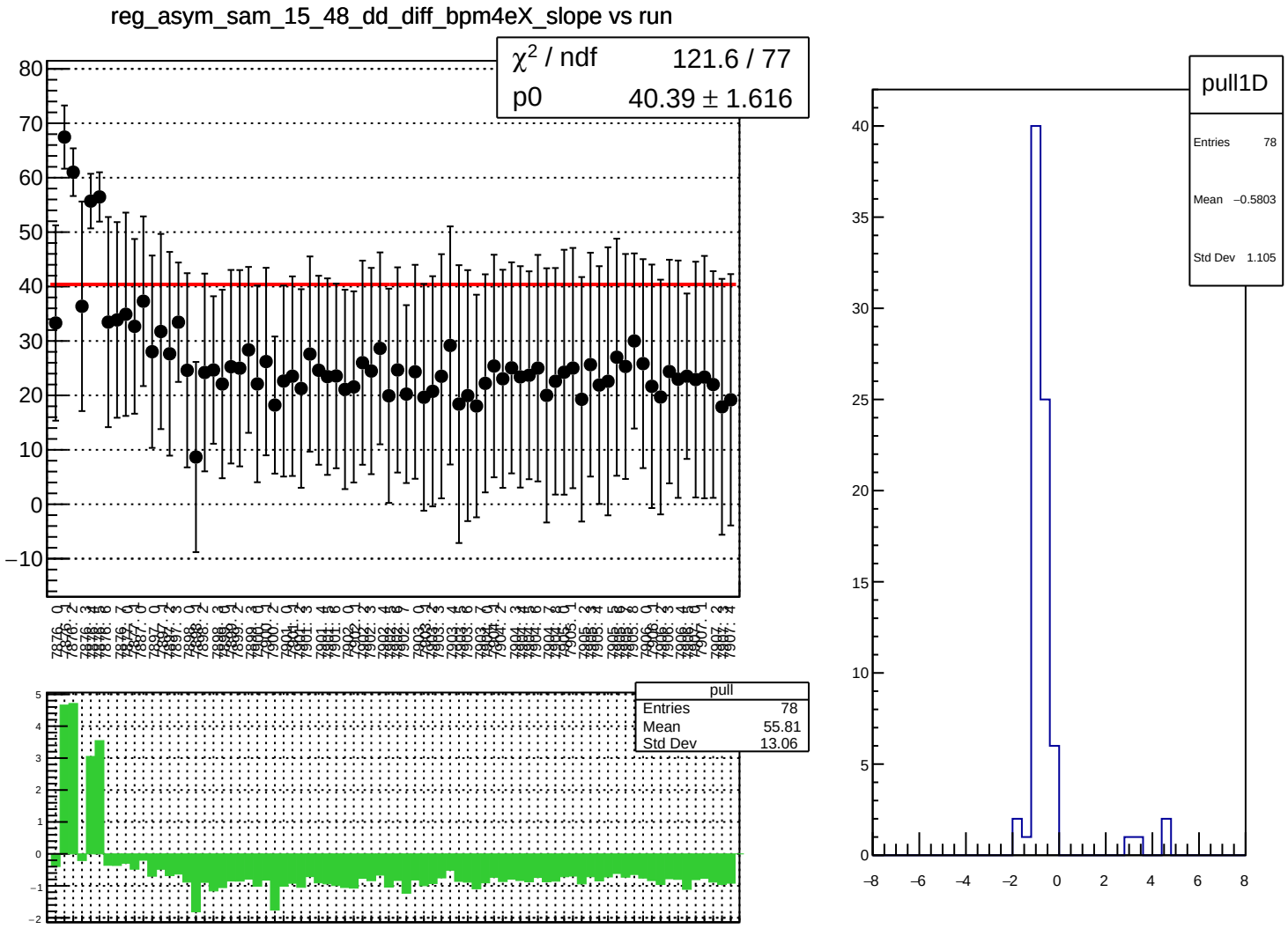

pull1D
Entries 78
Mean 0.01913
Std Dev 0.2387

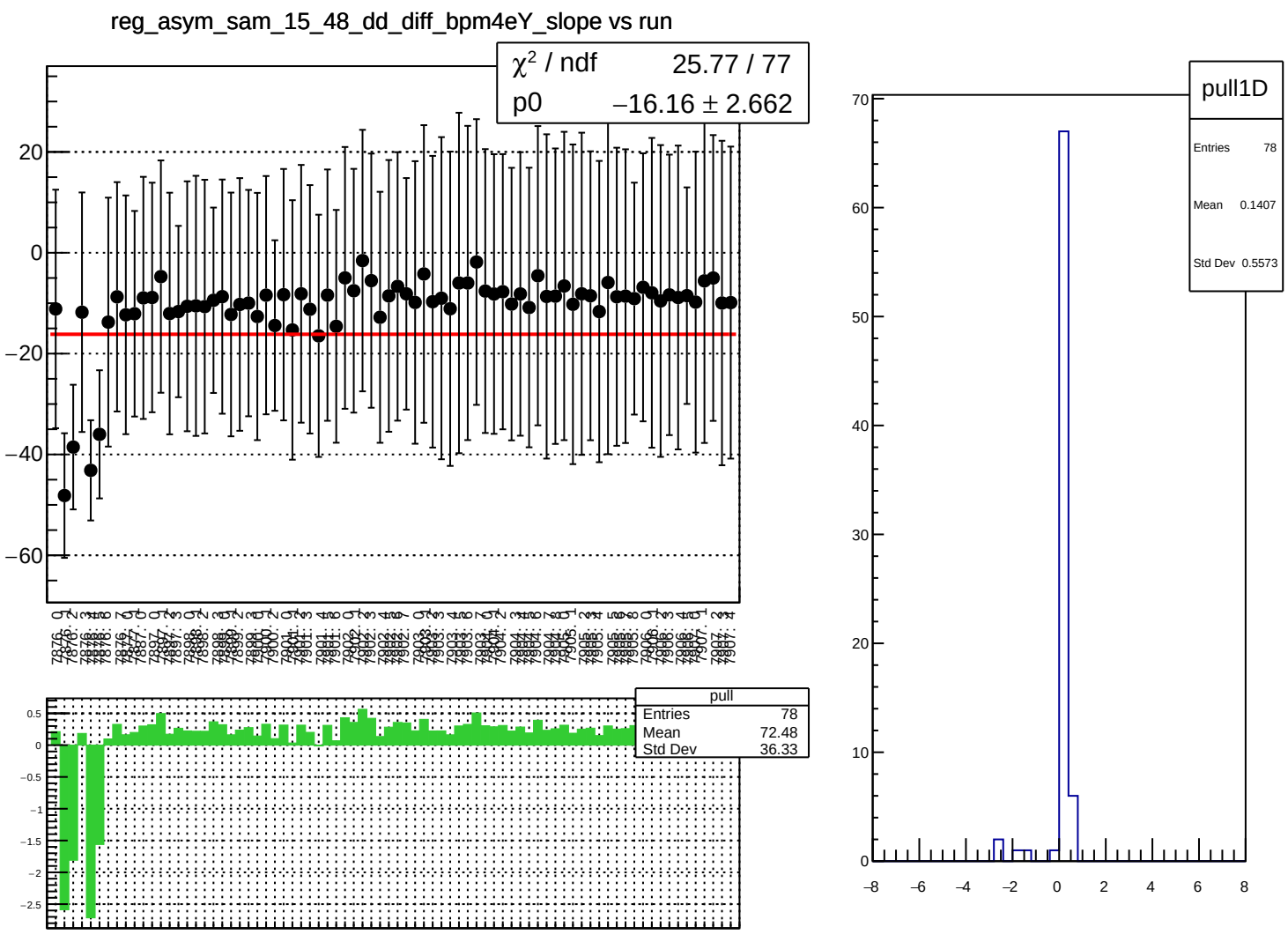

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 14.4 / 77
p0 −0.7984 ± 0.131
pull
Entries 78
Mean 242
Std Dev 209.3

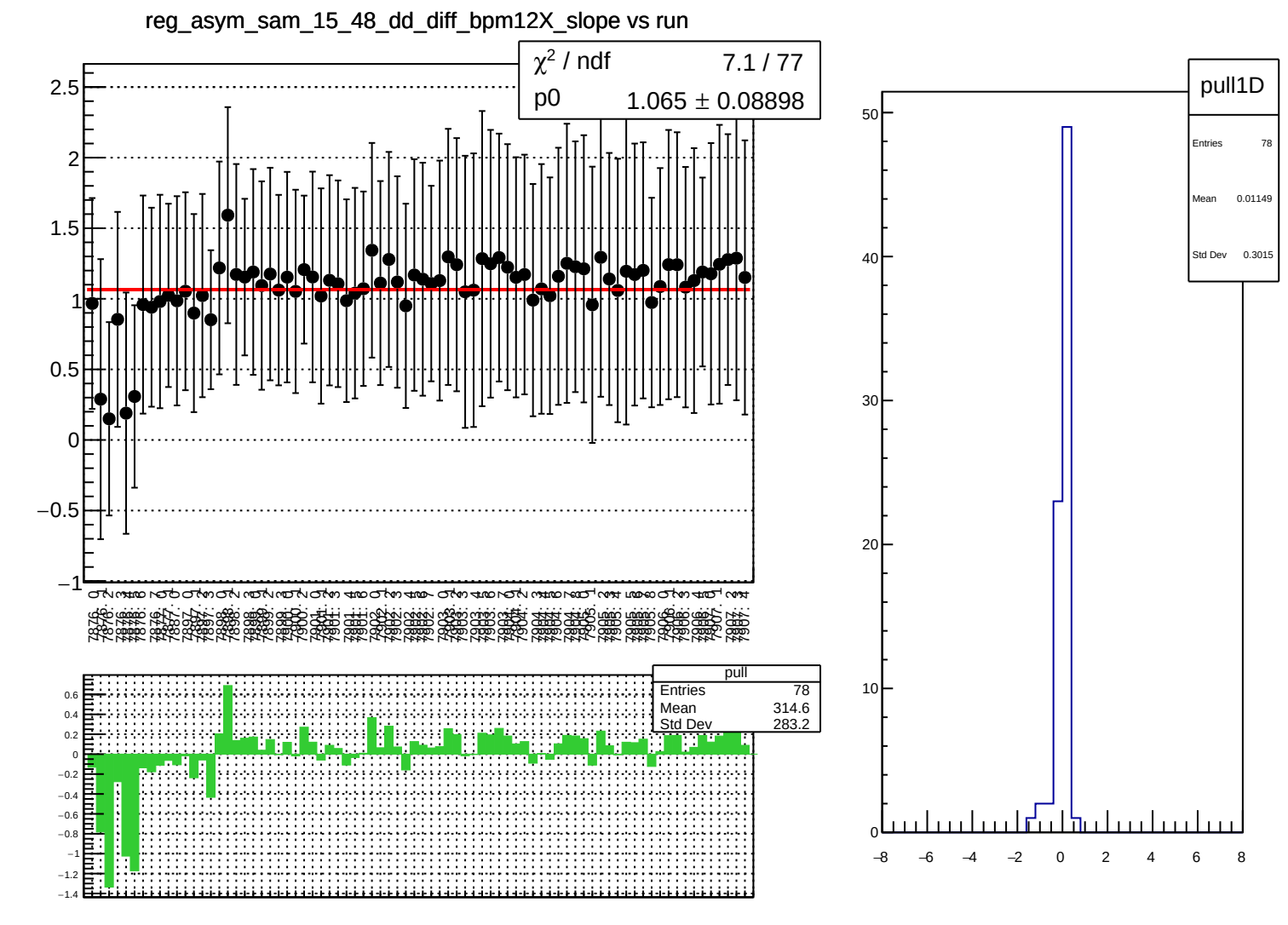

pull1D
Entries 78
Mean −0.01979
Std Dev 0.4292

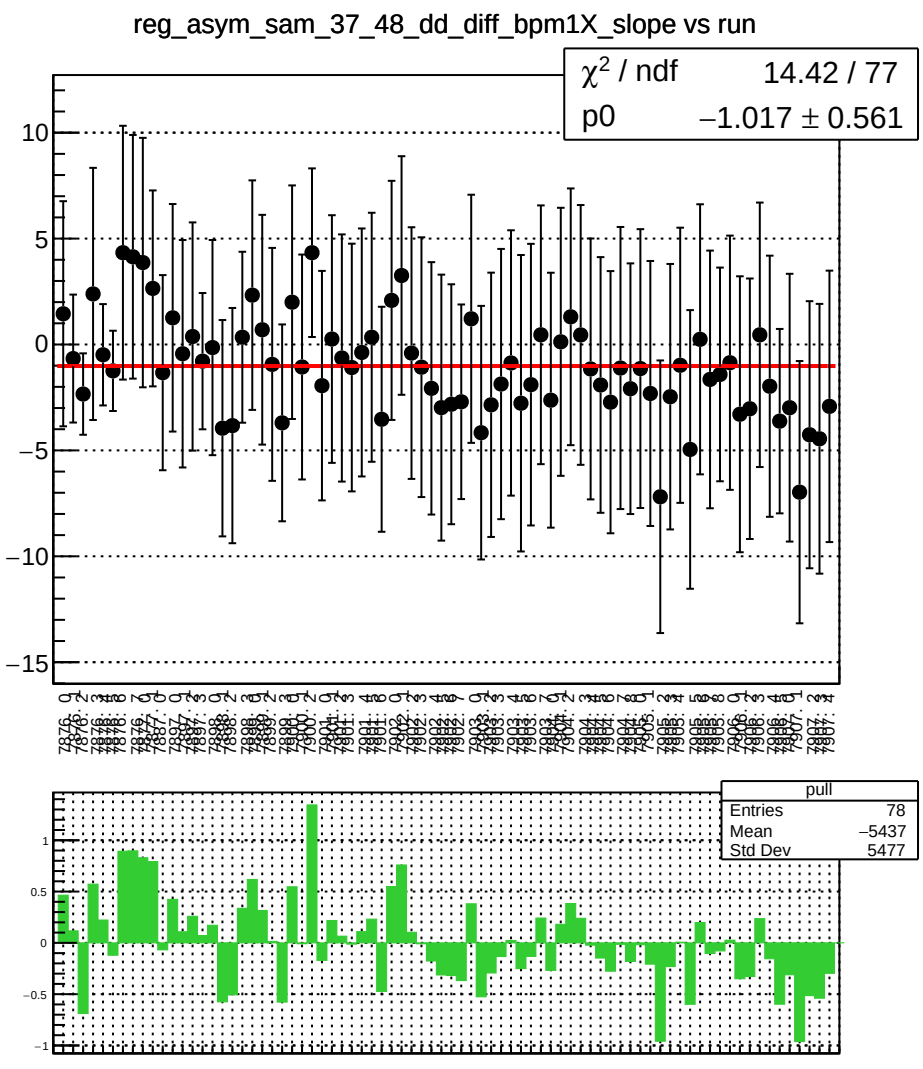

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 96.99 / 77
p0 19.85 ± 1.997
pull
Entries 78
Mean 58.13
Std Dev 17.16
pull1D
Entries 78
Mean 0.4837
Std Dev 1.005

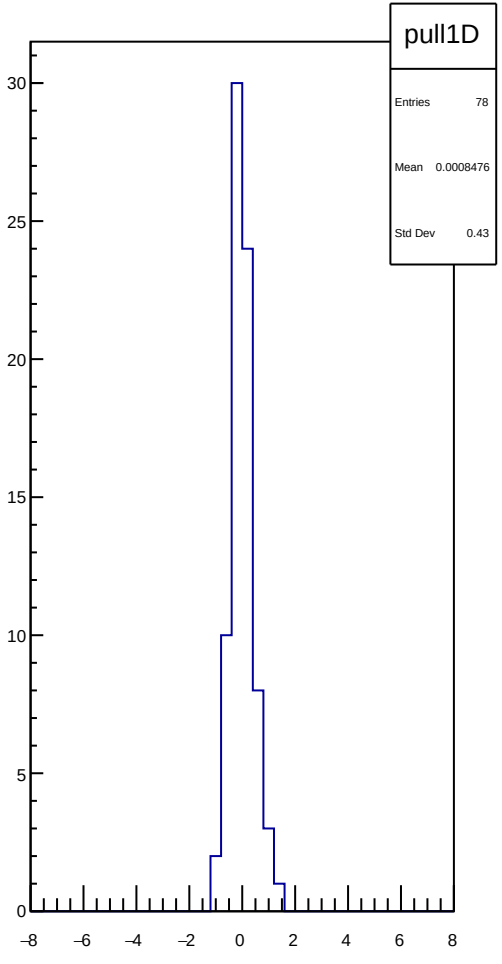

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.67 / 77
p0 −9.073 ± 2.149
pull
Entries 78
Mean 59.69
Std Dev 19.64
pull1D
Entries 78
Mean −0.2413
Std Dev 0.6418

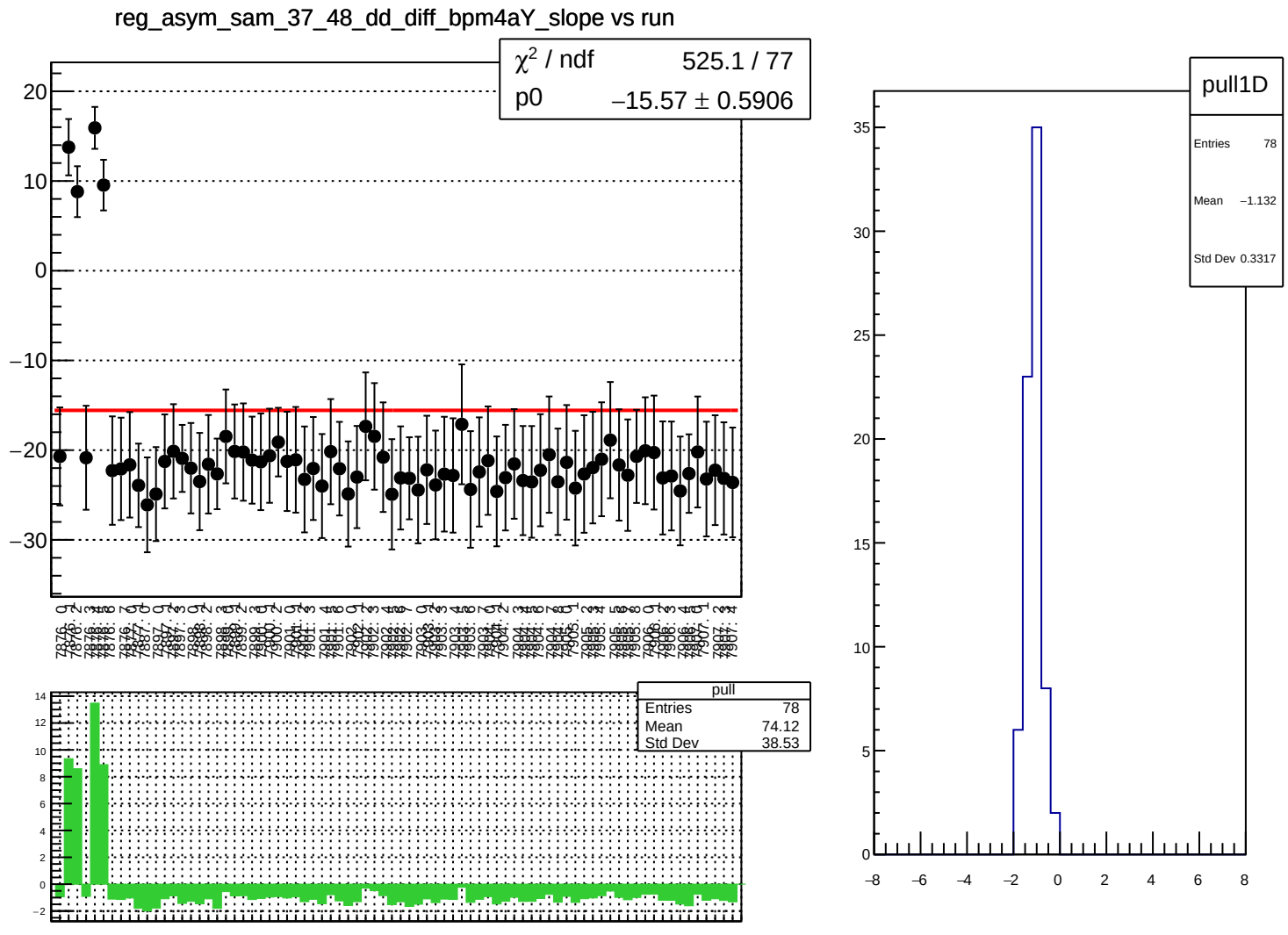

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 121.6 / 77
p0 40.39 ± 1.616
pull
Entries 78
Mean 55.81
Std Dev 13.06
pull1D
Entries 78
Mean −0.5803
Std Dev 1.105

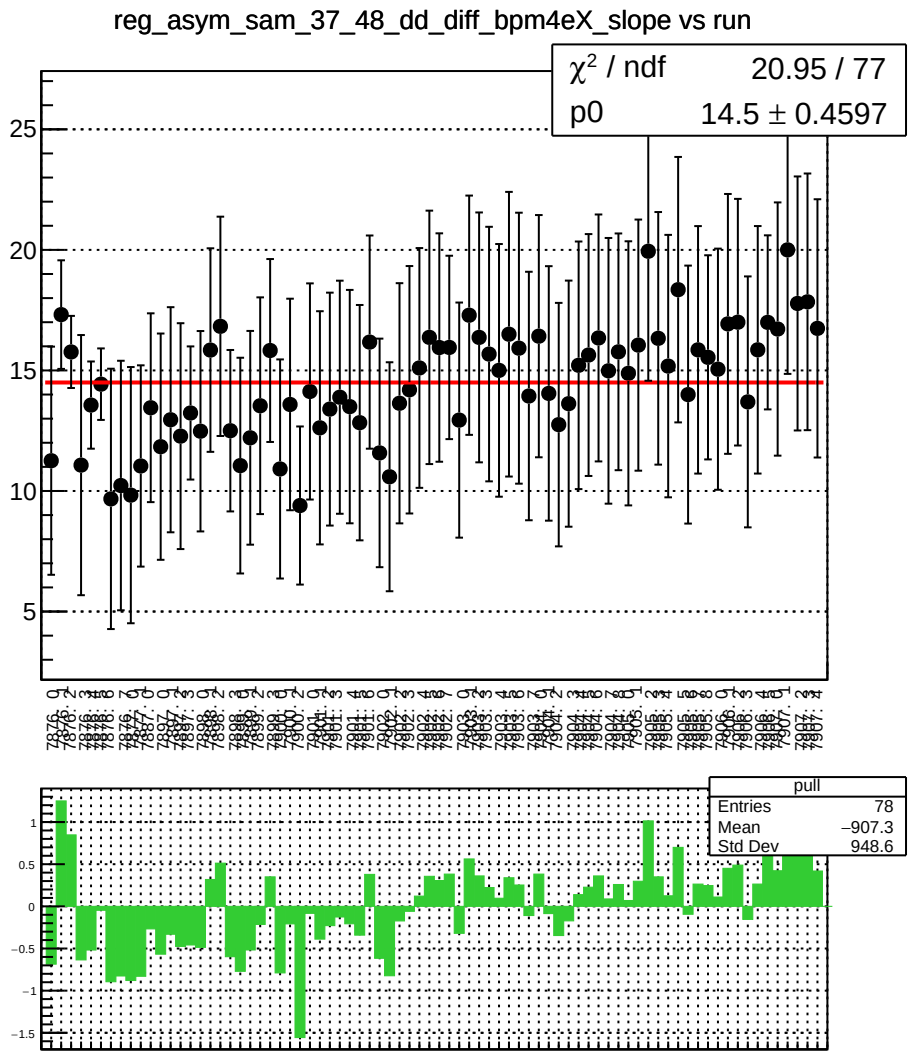

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.77 / 77
p0 −16.16 ± 2.662
pull
Entries 78
Mean 72.48
Std Dev 36.33
pull1D
Entries 78
Mean 0.1407
Std Dev 0.5573

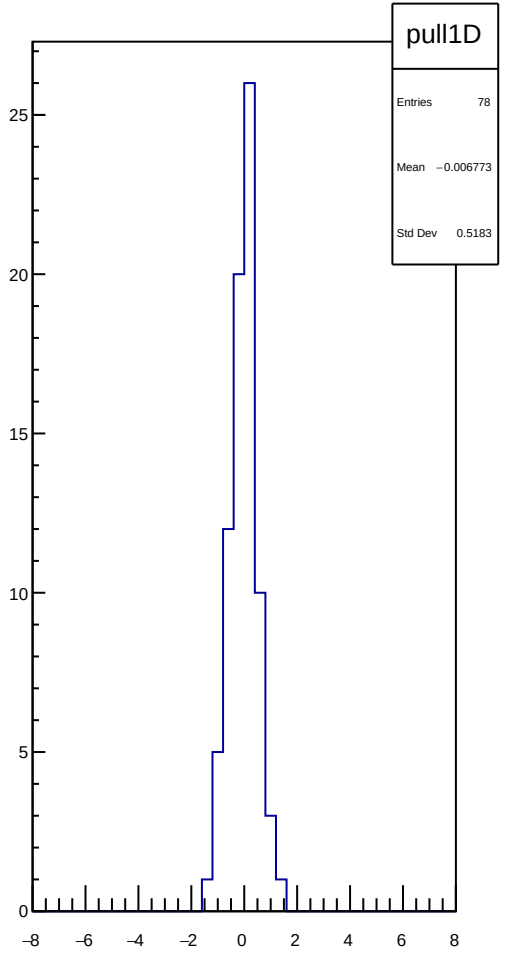

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 7.1 / 77
p0 1.065 ± 0.08898
pull
Entries 78
Mean 314.6
Std Dev 283.2
pull1D
Entries 78
Mean 0.01149
Std Dev 0.3015

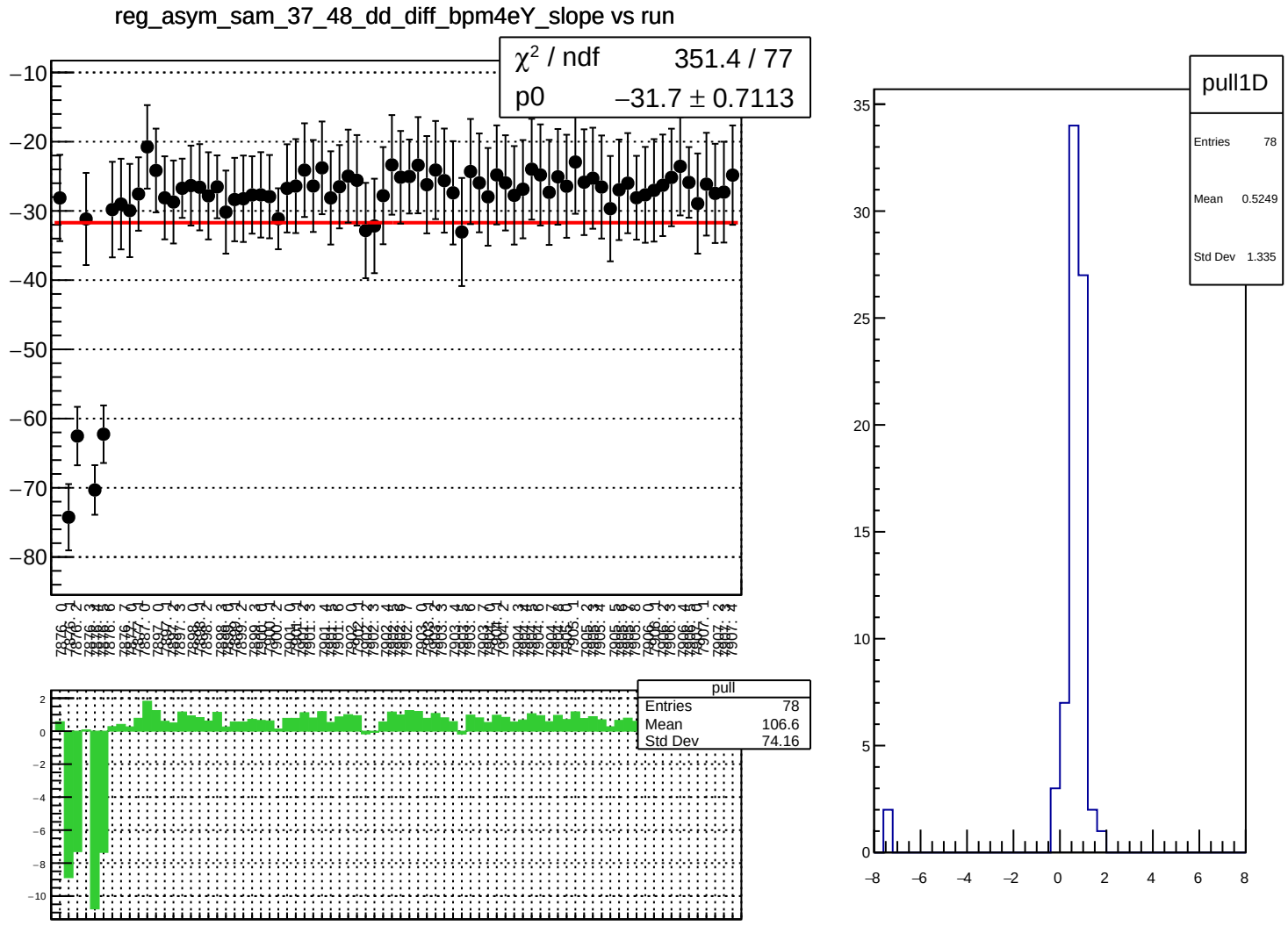

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 14.42 / 77
p0 −1.017 ± 0.561
pull
Entries 78
Mean −5437
Std Dev 5477

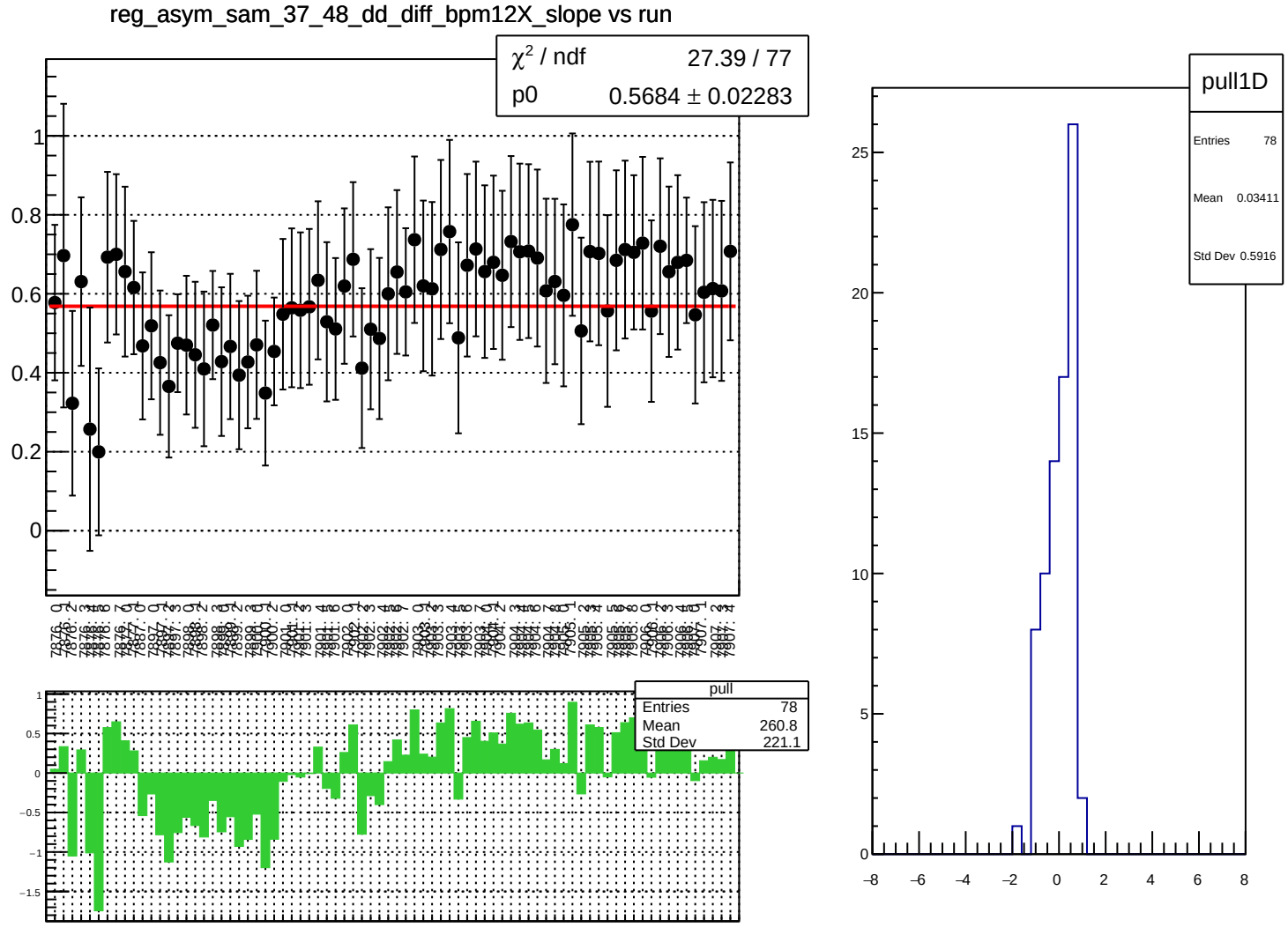

pull1D
Entries 78
Mean 0.0008476
Std Dev 0.43

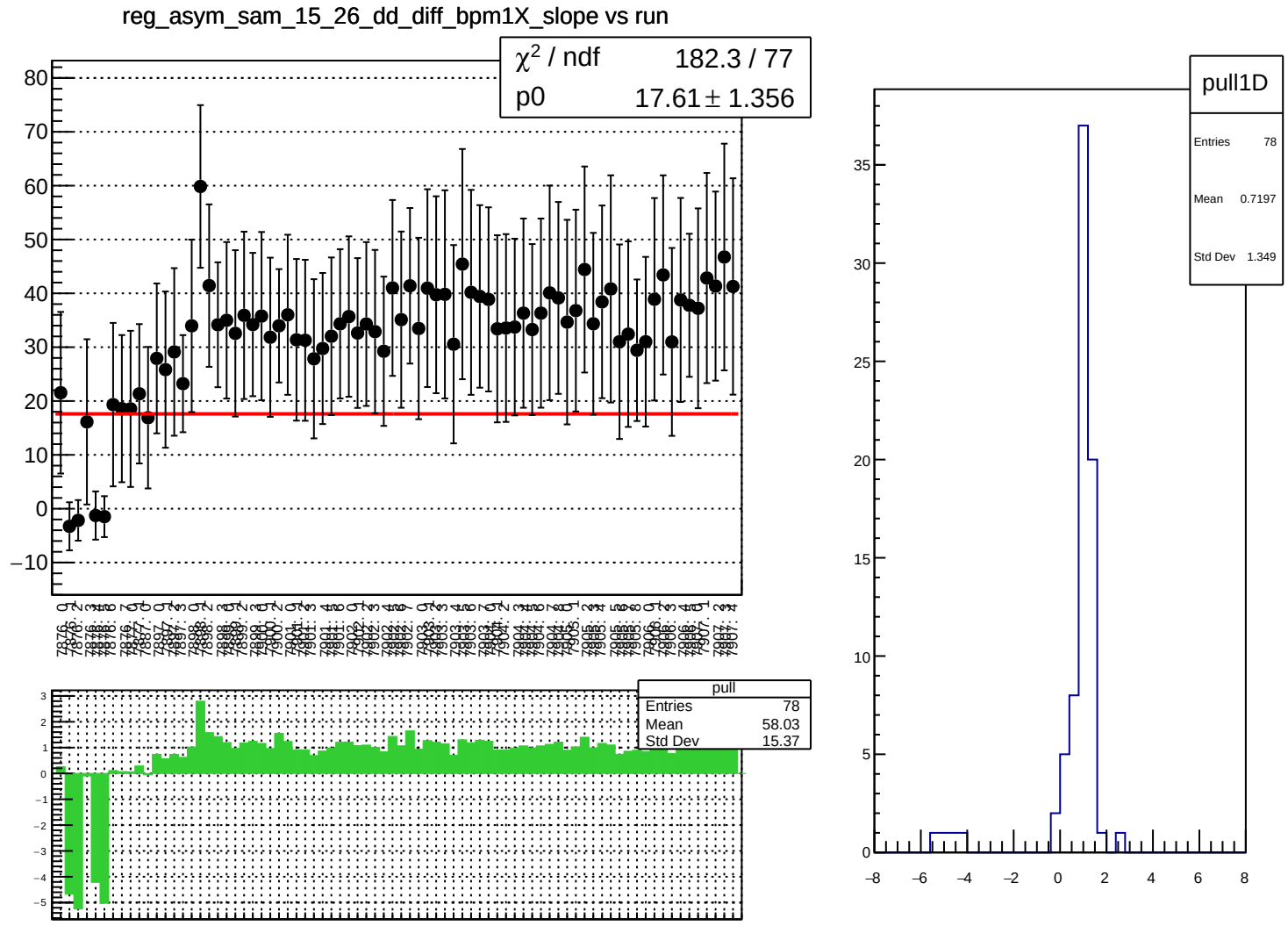

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 525.1 / 77
p0 −15.57 ± 0.5906
pull
Entries 78
Mean 74.12
Std Dev 38.53
pull1D
Entries 78
Mean −1.132
Std Dev 0.3317

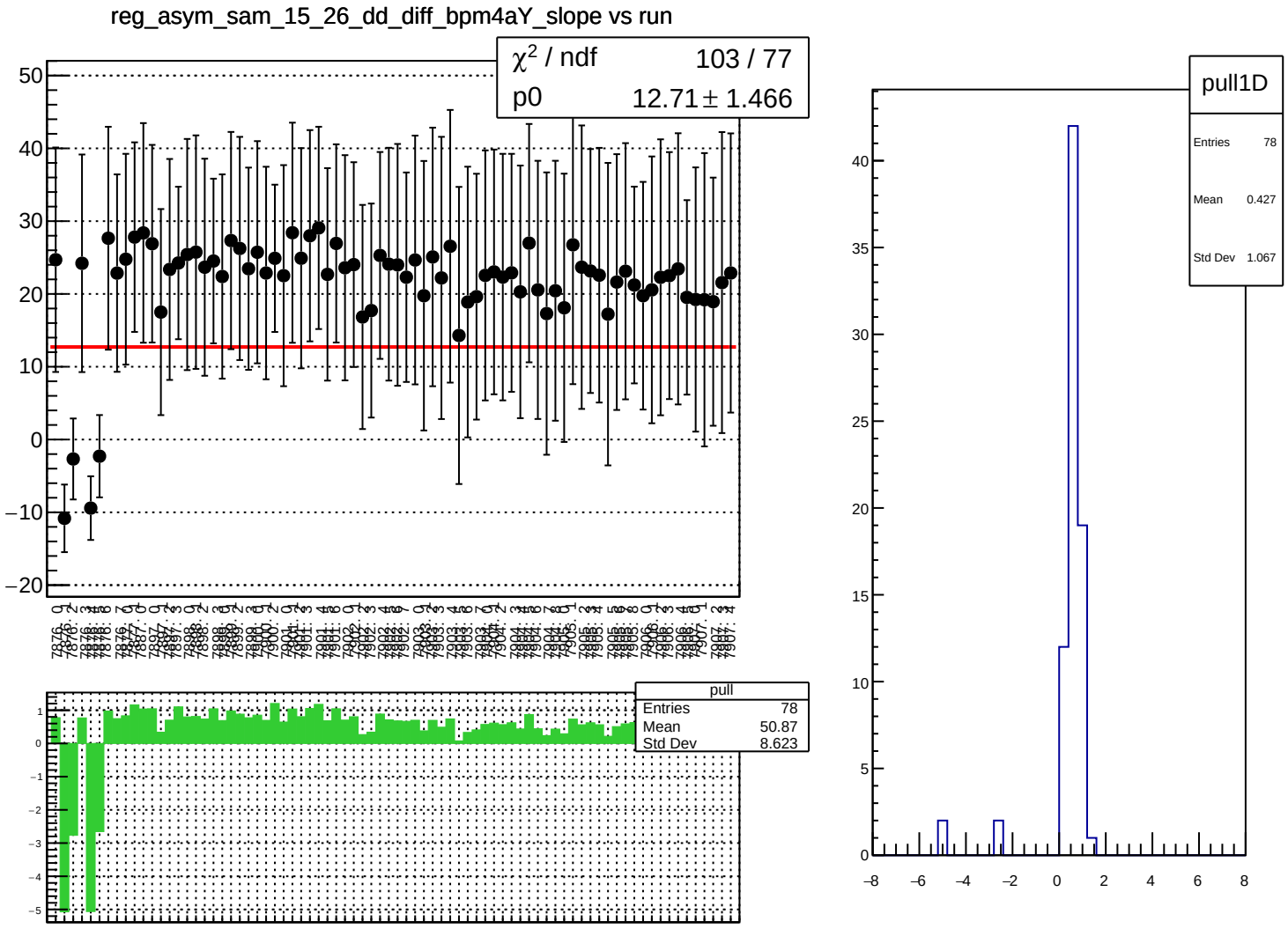

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.95 / 77
p0 14.5 ± 0.4597
pull
Entries 78
Mean −907.3
Std Dev 948.6

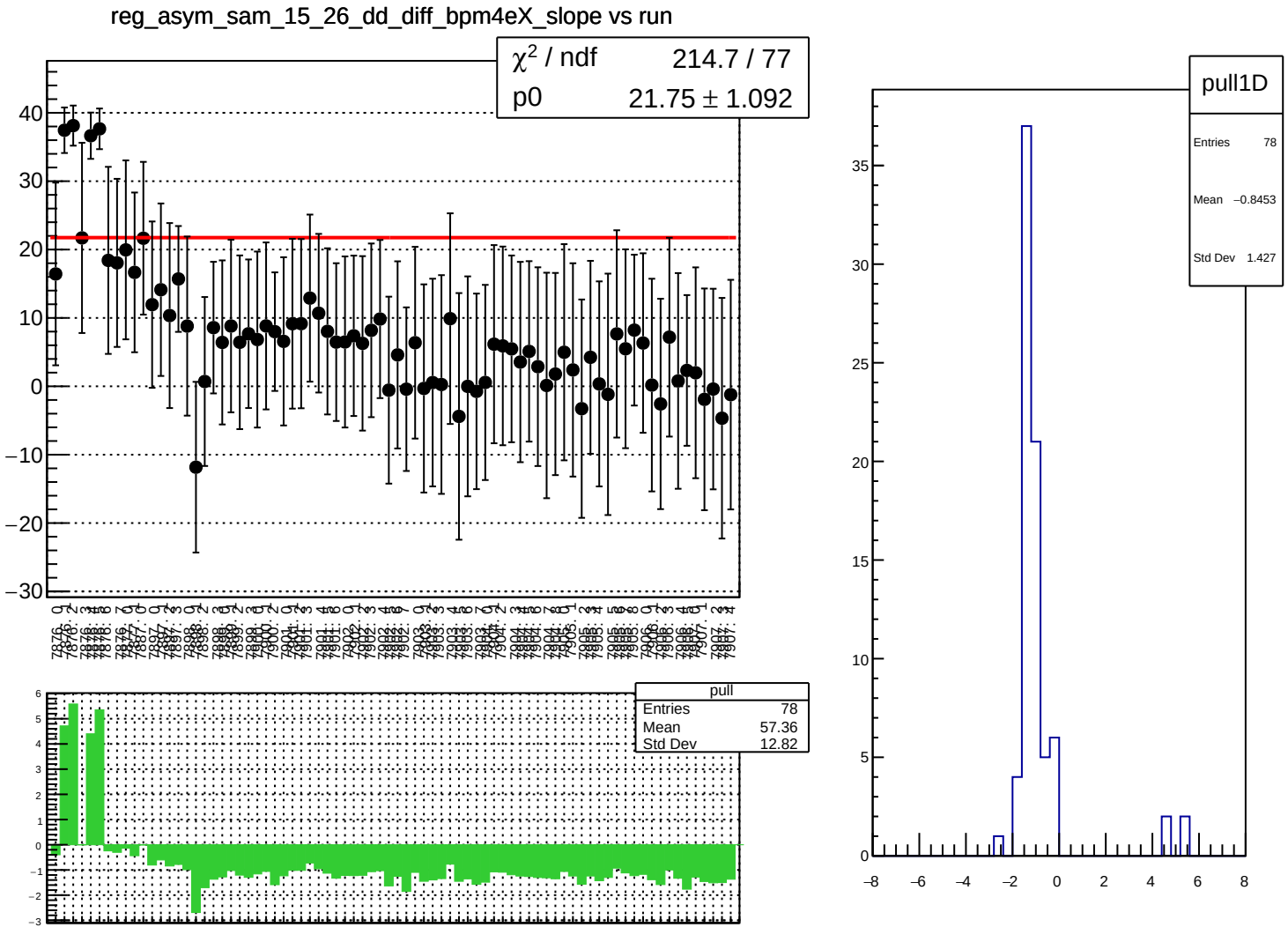

pull1D
Entries 78
Mean −0.006773
Std Dev 0.5183

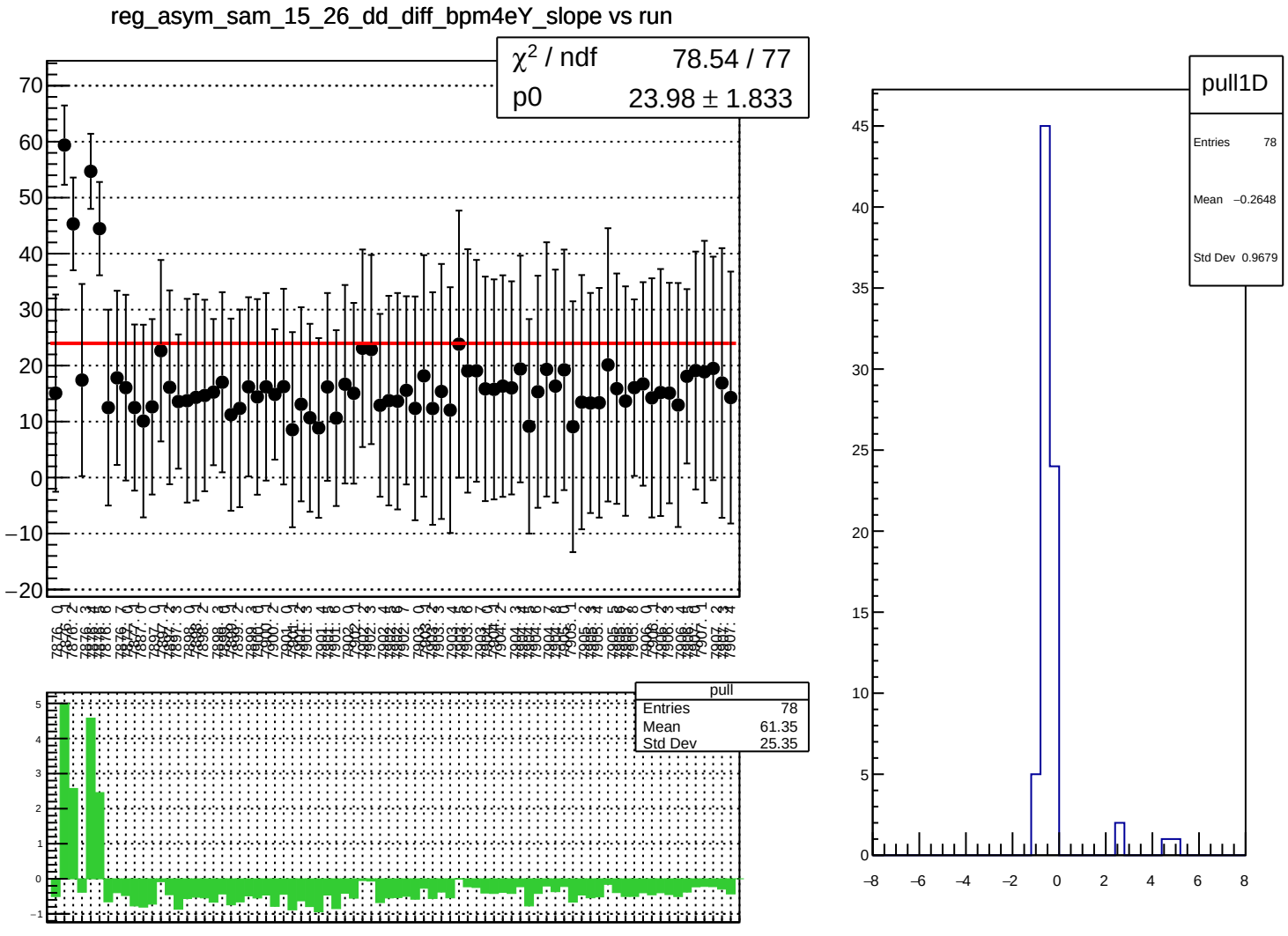

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 351.4 / 77
p0 −31.7 ± 0.7113
pull
Entries 78
Mean 106.6
Std Dev 74.16
pull1D
Entries 78
Mean 0.5249
Std Dev 1.335

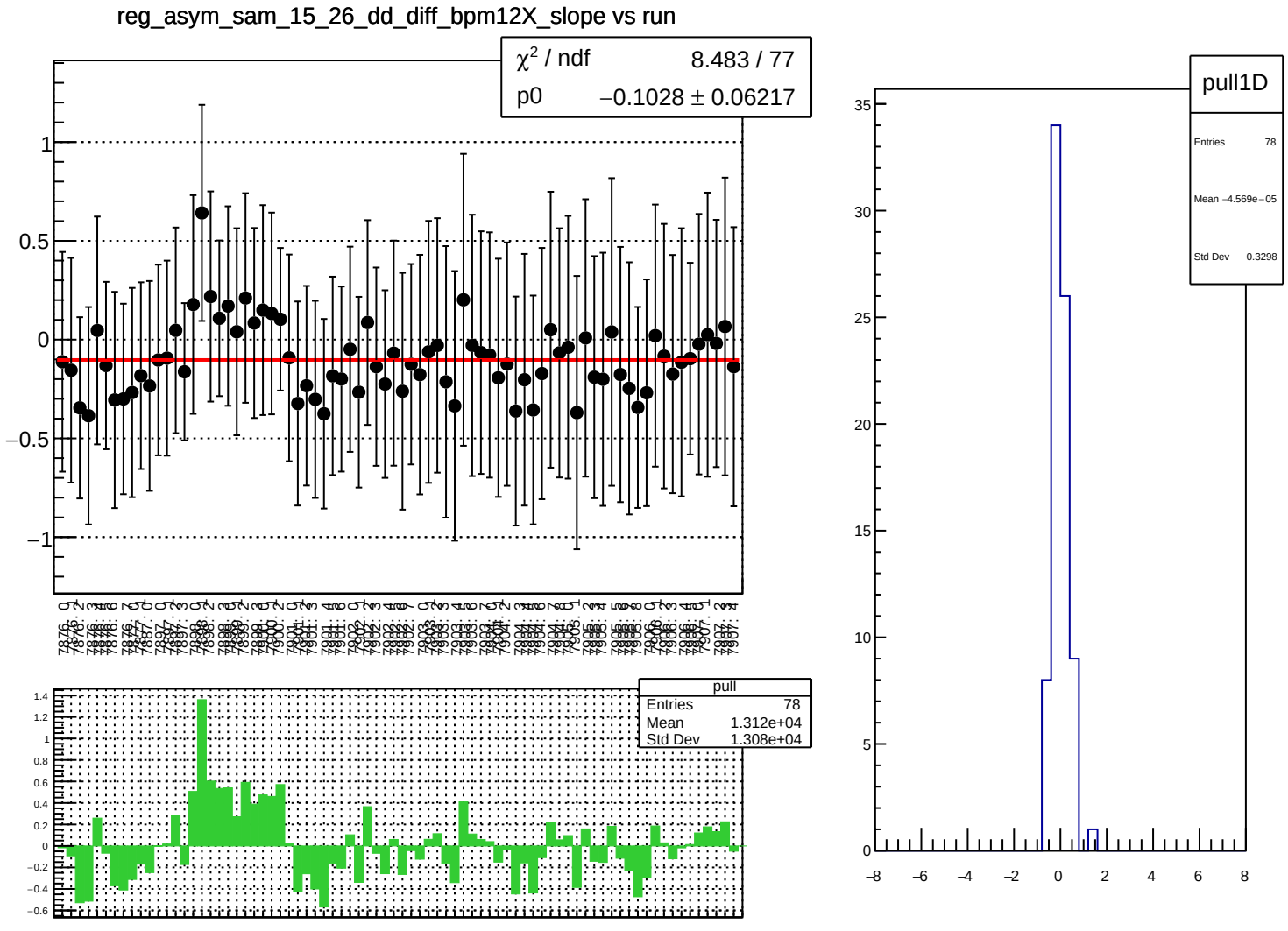

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 27.39 / 77
p0 0.5684 ± 0.02283
pull
Entries 78
Mean 260.8
Std Dev 221.1
pull1D
Entries 78
Mean 0.03411
Std Dev 0.5916

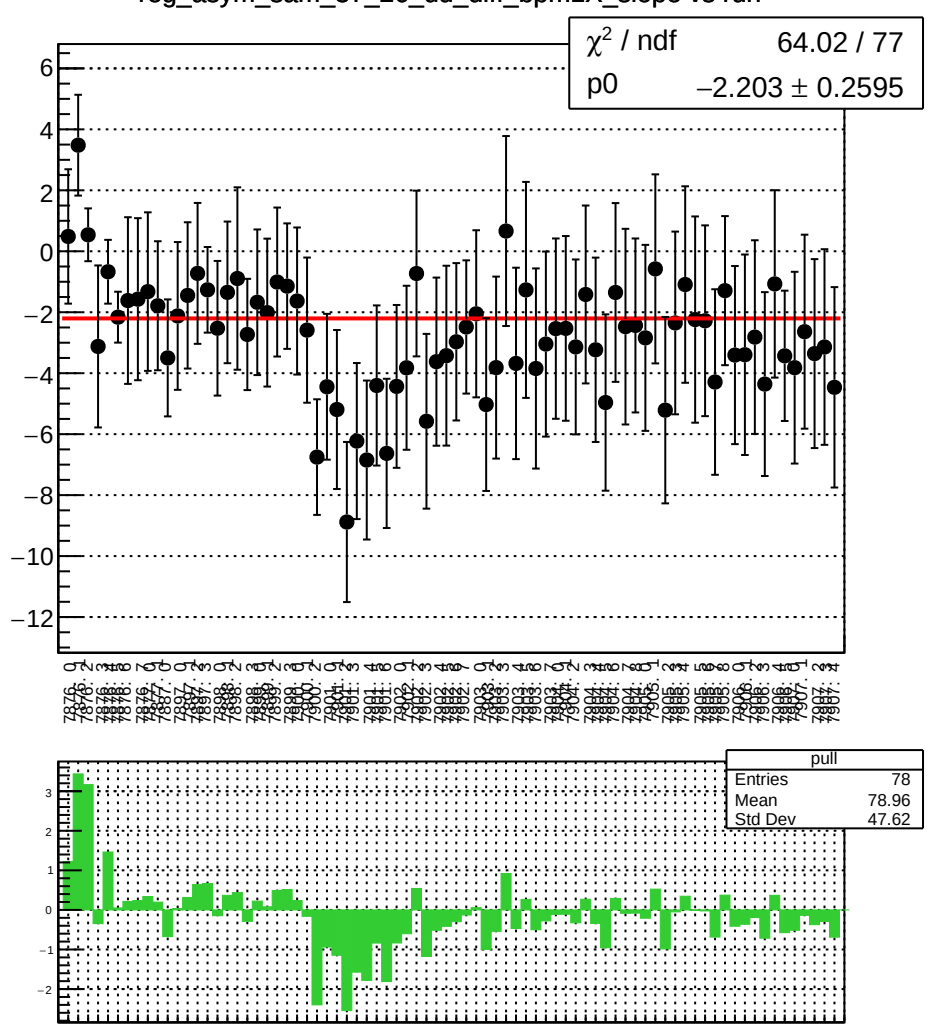

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 182.3 / 77
p0 17.61 ± 1.356
pull
Entries 78
Mean 58.03
Std Dev 15.37
pull1D
Entries 78
Mean 0.7197
Std Dev 1.349

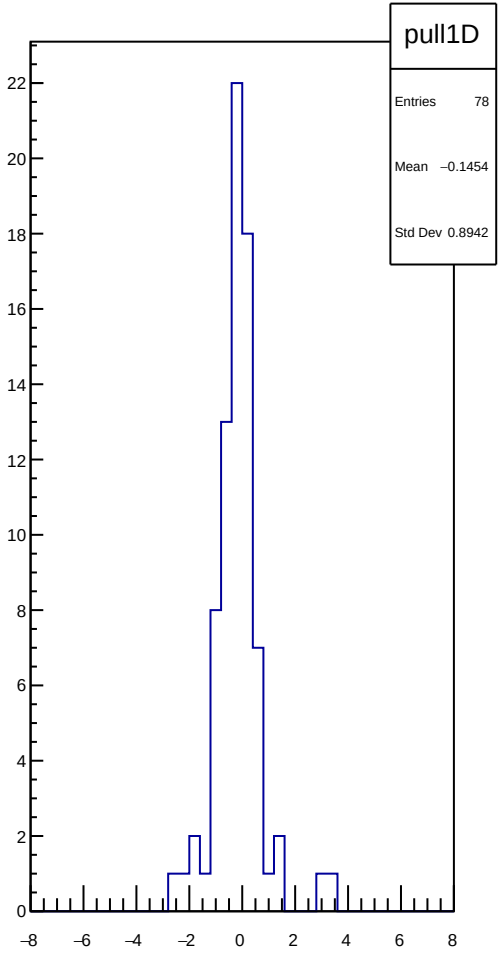

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 103 / 77
p0 12.71 ± 1.466
pull
Entries 78
Mean 50.87
Std Dev 8.623
pull1D
Entries 78
Mean 0.427
Std Dev 1.067

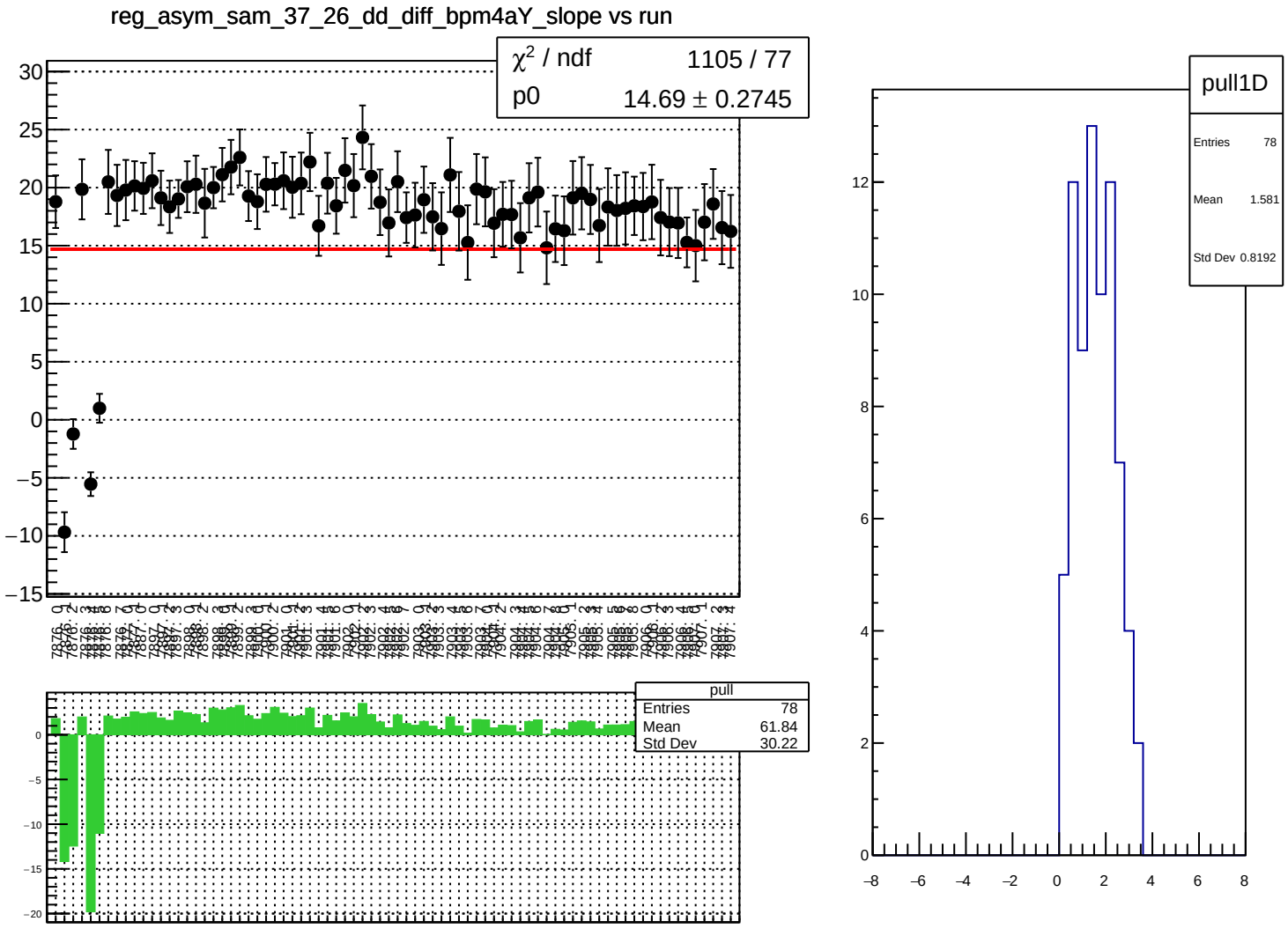

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 214.7 / 77
p0 21.75 ± 1.092
pull
Entries 78
Mean 57.36
Std Dev 12.82
pull1D
Entries 78
Mean −0.8453
Std Dev 1.427

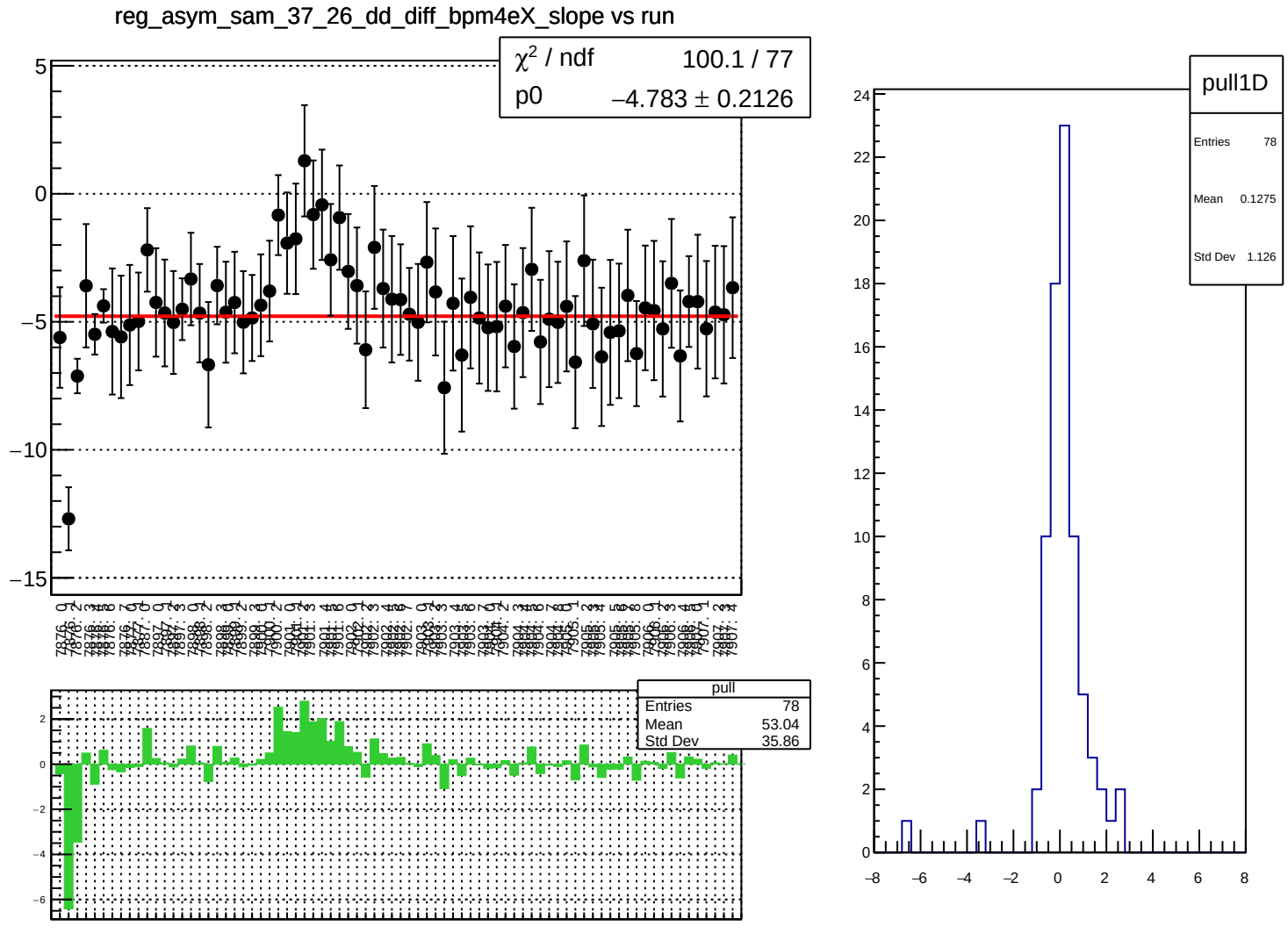

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.54 / 77
p0 23.98 ± 1.833
pull
Entries 78
Mean 61.35
Std Dev 25.35
pull1D
Entries 78
Mean −0.2648
Std Dev 0.9679

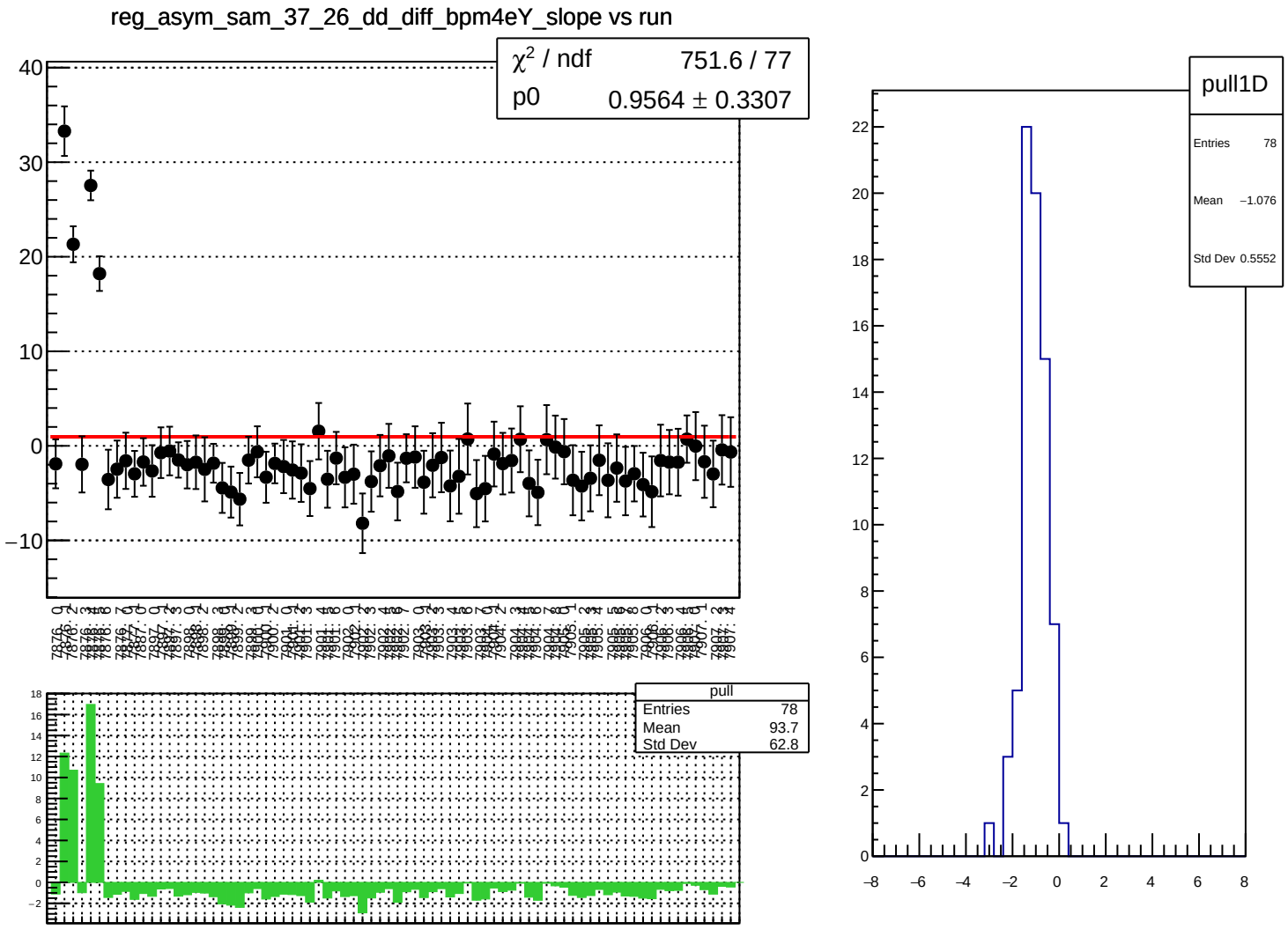

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 8.483 / 77
p0 −0.1028 ± 0.06217
pull
Entries 78
Mean 1.312e+04
Std Dev 1.308e+04
pull1D
Entries 78
Mean −4.569e−05
Std Dev 0.3298

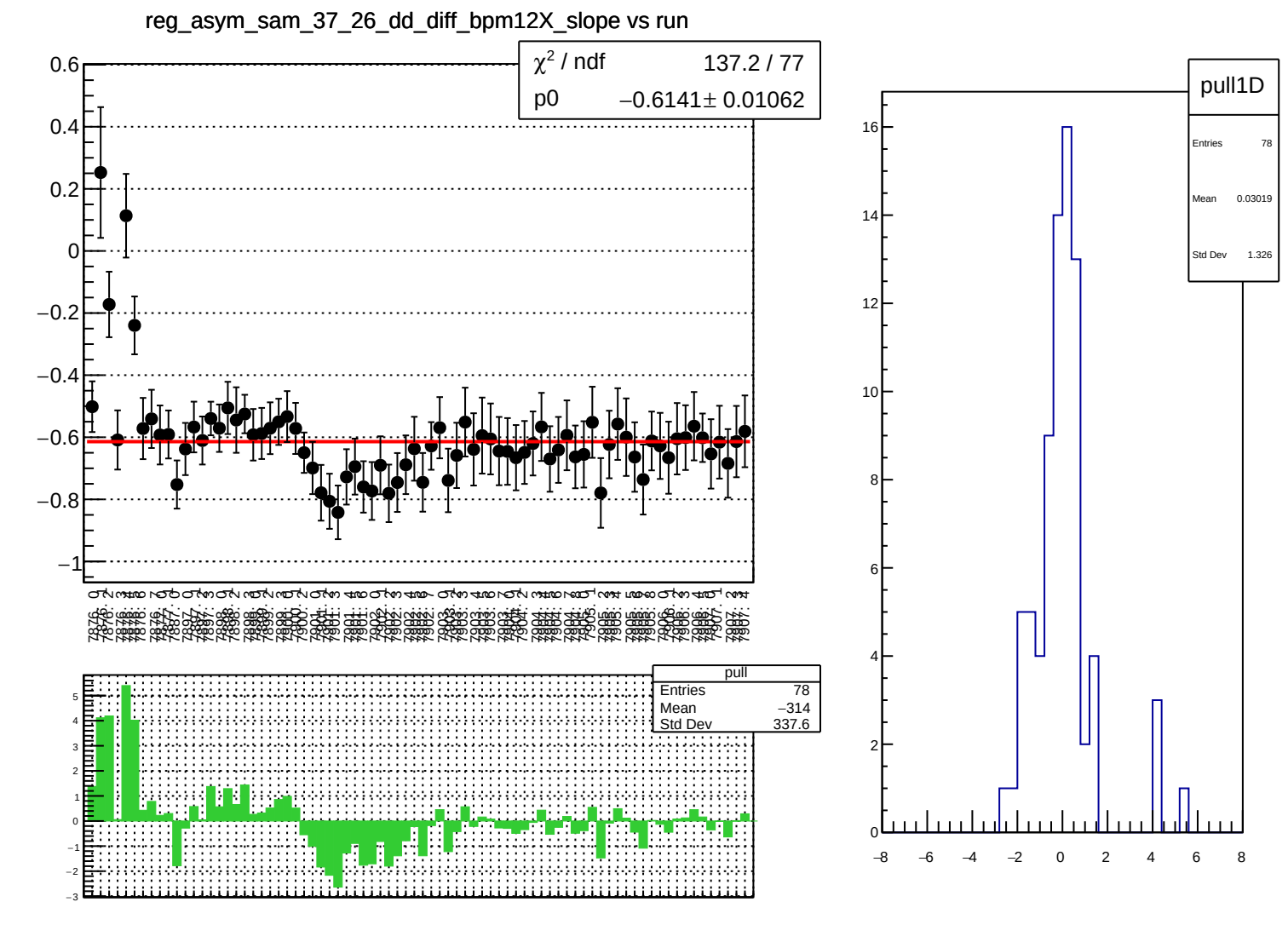

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 64.02 / 77
p0 −2.203 ± 0.2595
pull
Entries 78
Mean 78.96
Std Dev 47.62

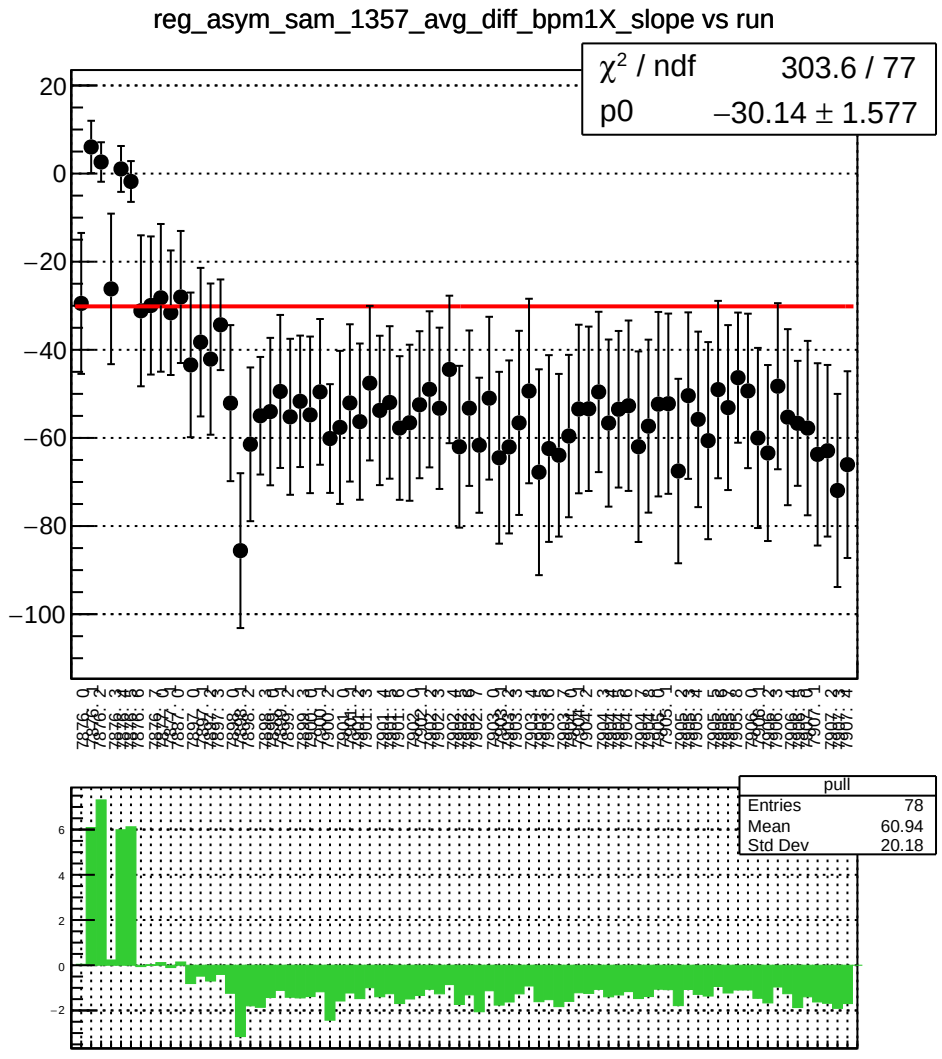

pull1D
Entries 78
Mean −0.1454
Std Dev 0.8942

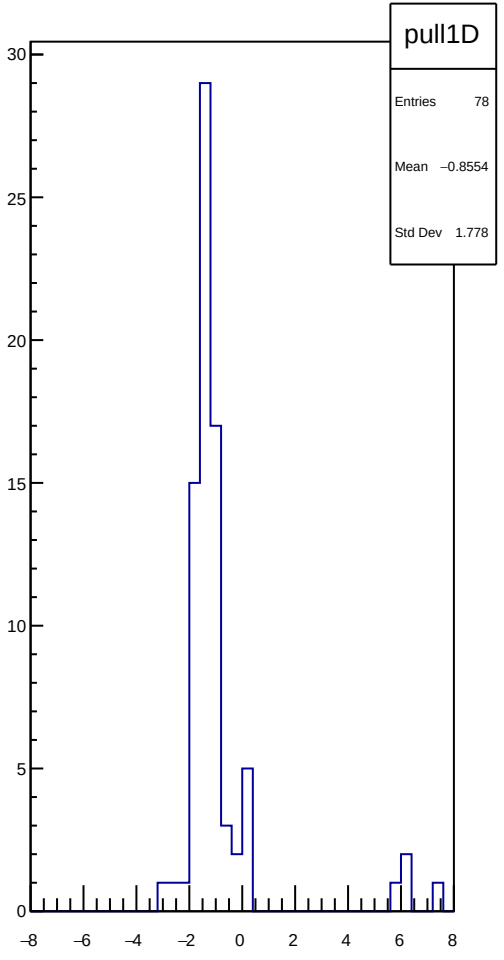

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1105 / 77
p0 14.69 ± 0.2745
pull
Entries 78
Mean 61.84
Std Dev 30.22
pull1D
Entries 78
Mean 1.581
Std Dev 0.8192

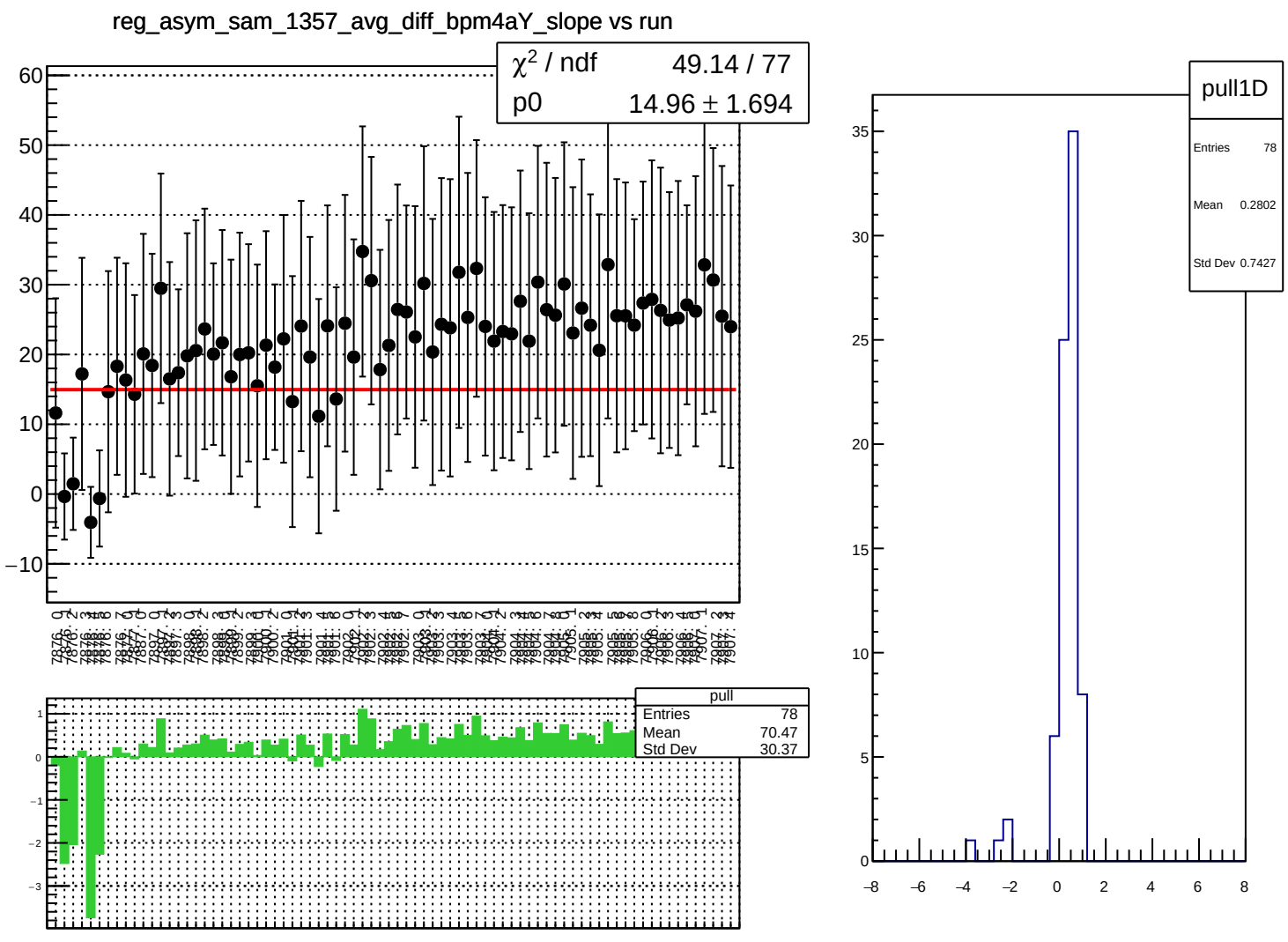

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 100.1 / 77
p0 −4.783 ± 0.2126
pull
Entries 78
Mean 53.04
Std Dev 35.86
pull1D
Entries 78
Mean 0.1275
Std Dev 1.126

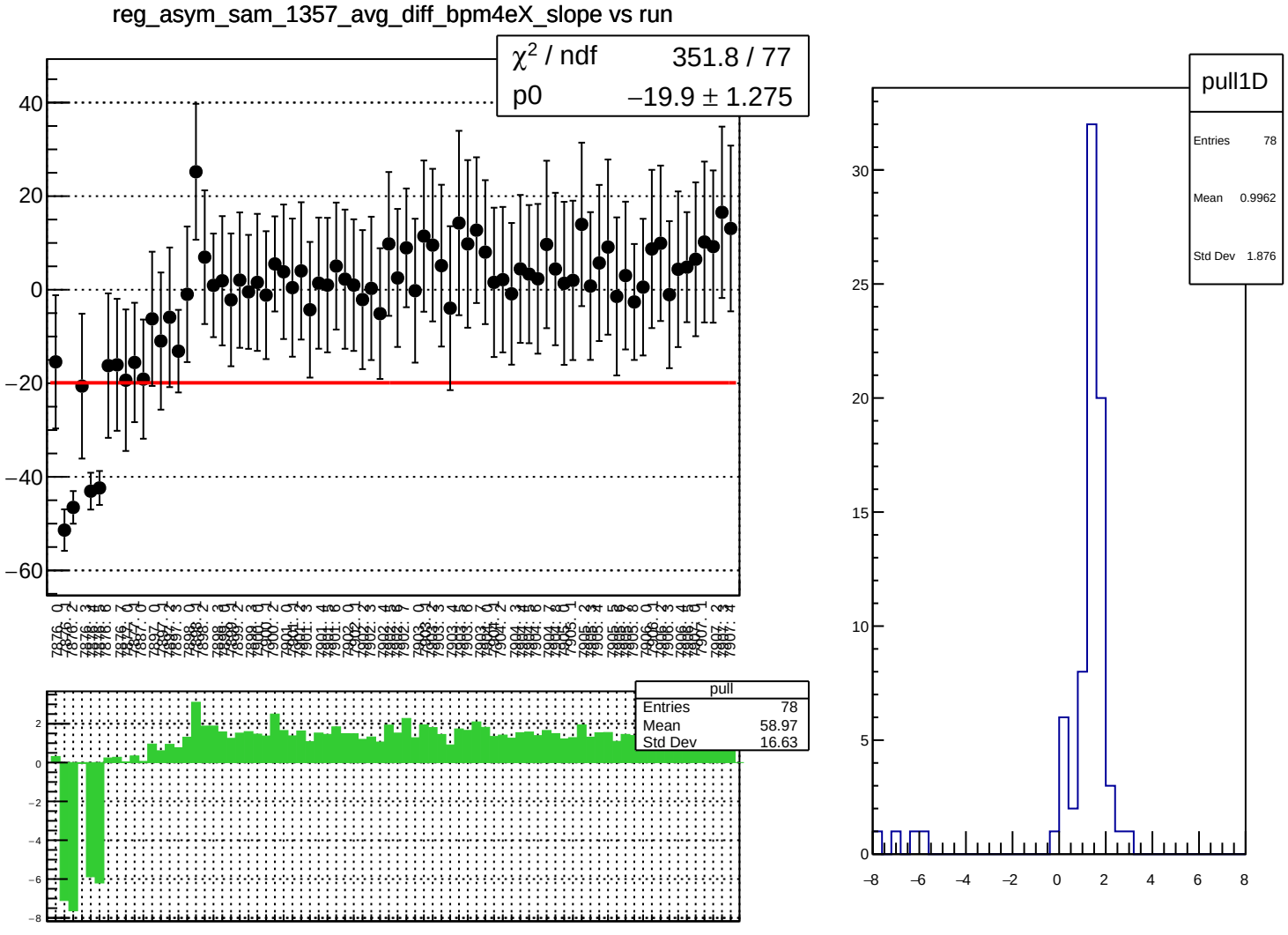

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 751.6 / 77
p0 0.9564 ± 0.3307
pull
Entries 78
Mean 93.7
Std Dev 62.8
pull1D
Entries 78
Mean −1.076
Std Dev 0.5552

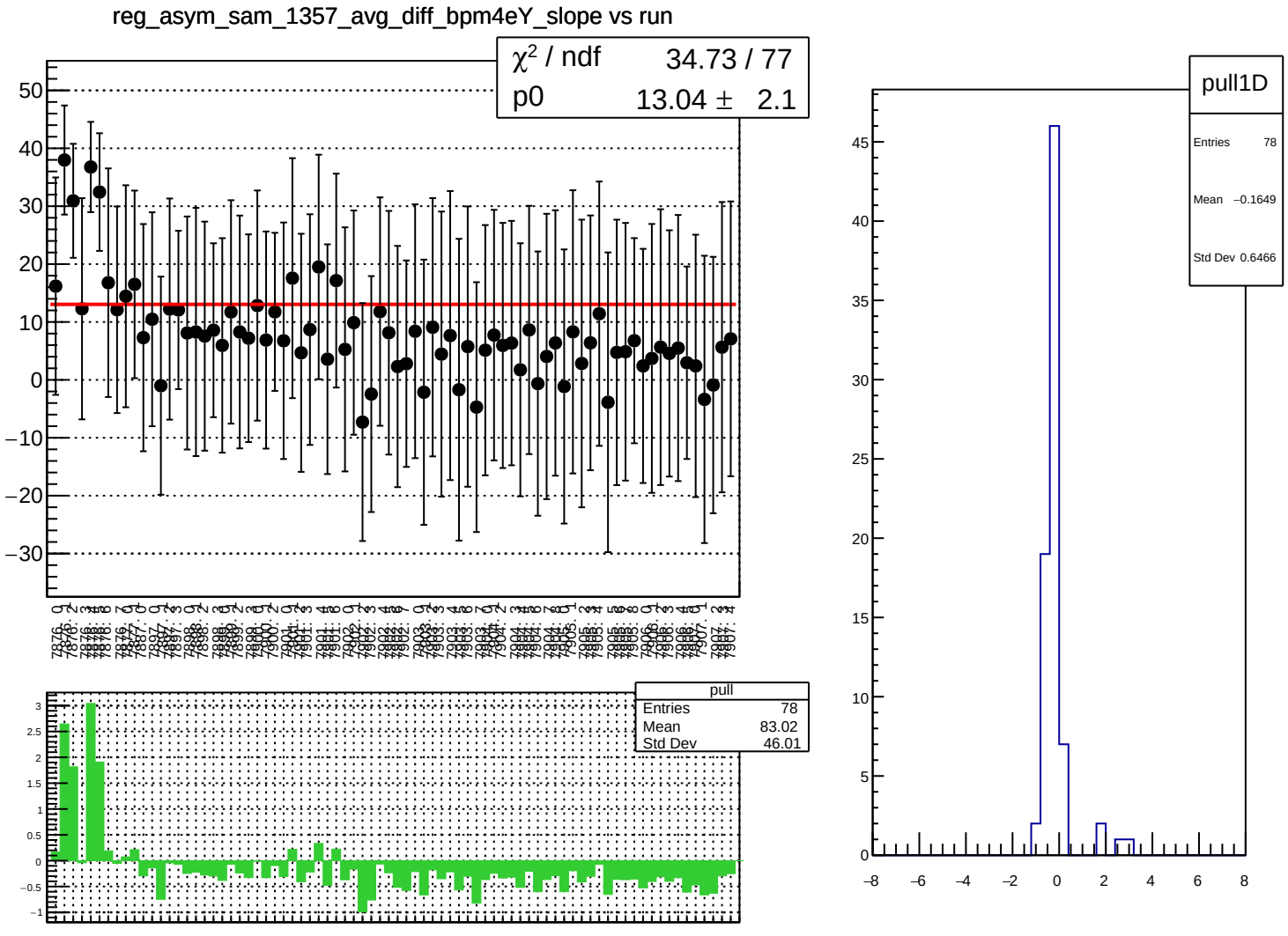

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 137.2 / 77
p0 −0.6141± 0.01062
pull
Entries 78
Mean −314
Std Dev 337.6
pull1D
Entries 78
Mean 0.03019
Std Dev 1.326

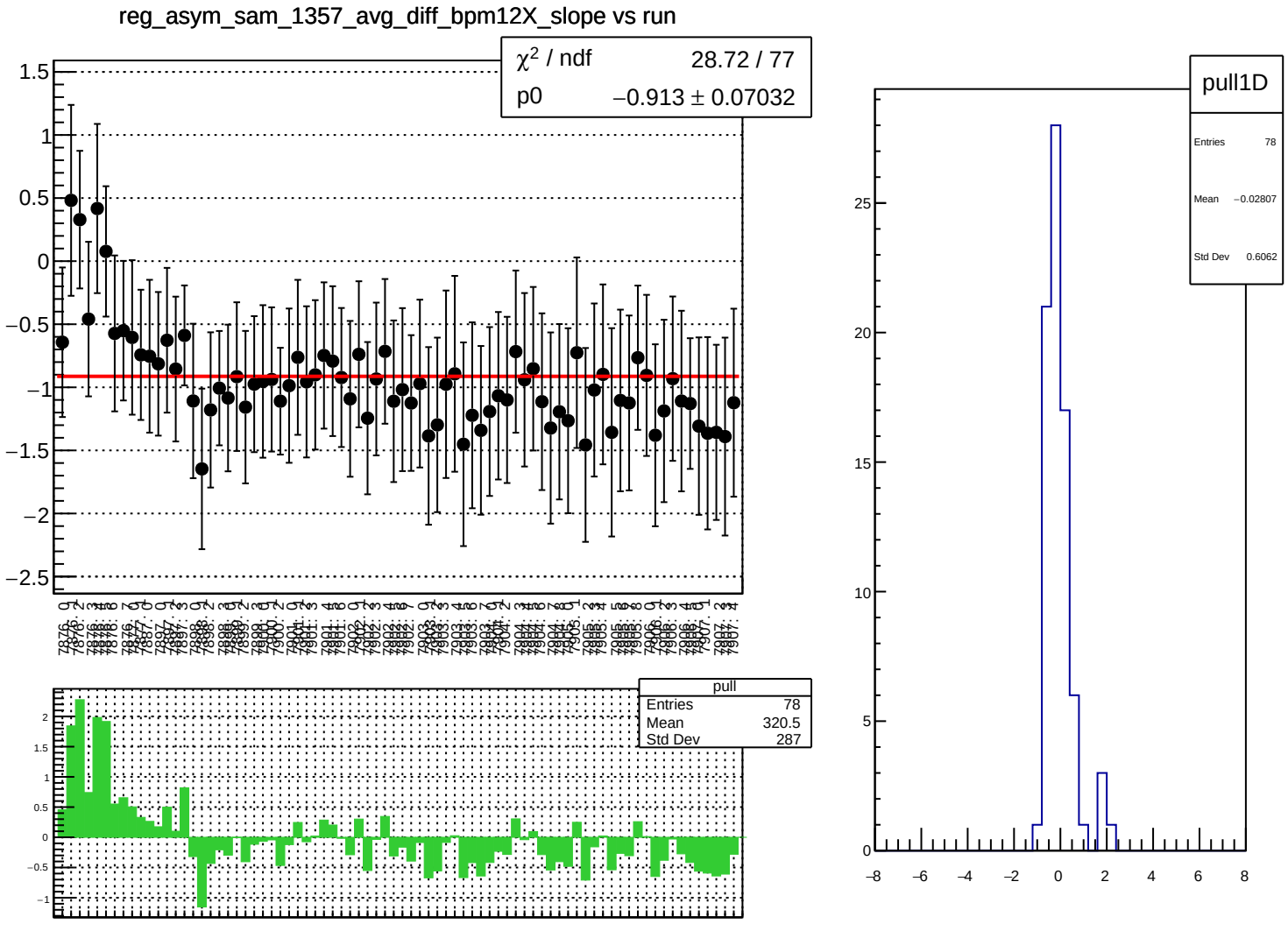

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 303.6 / 77
p0 −30.14 ± 1.577
pull
Entries 78
Mean 60.94
Std Dev 20.18

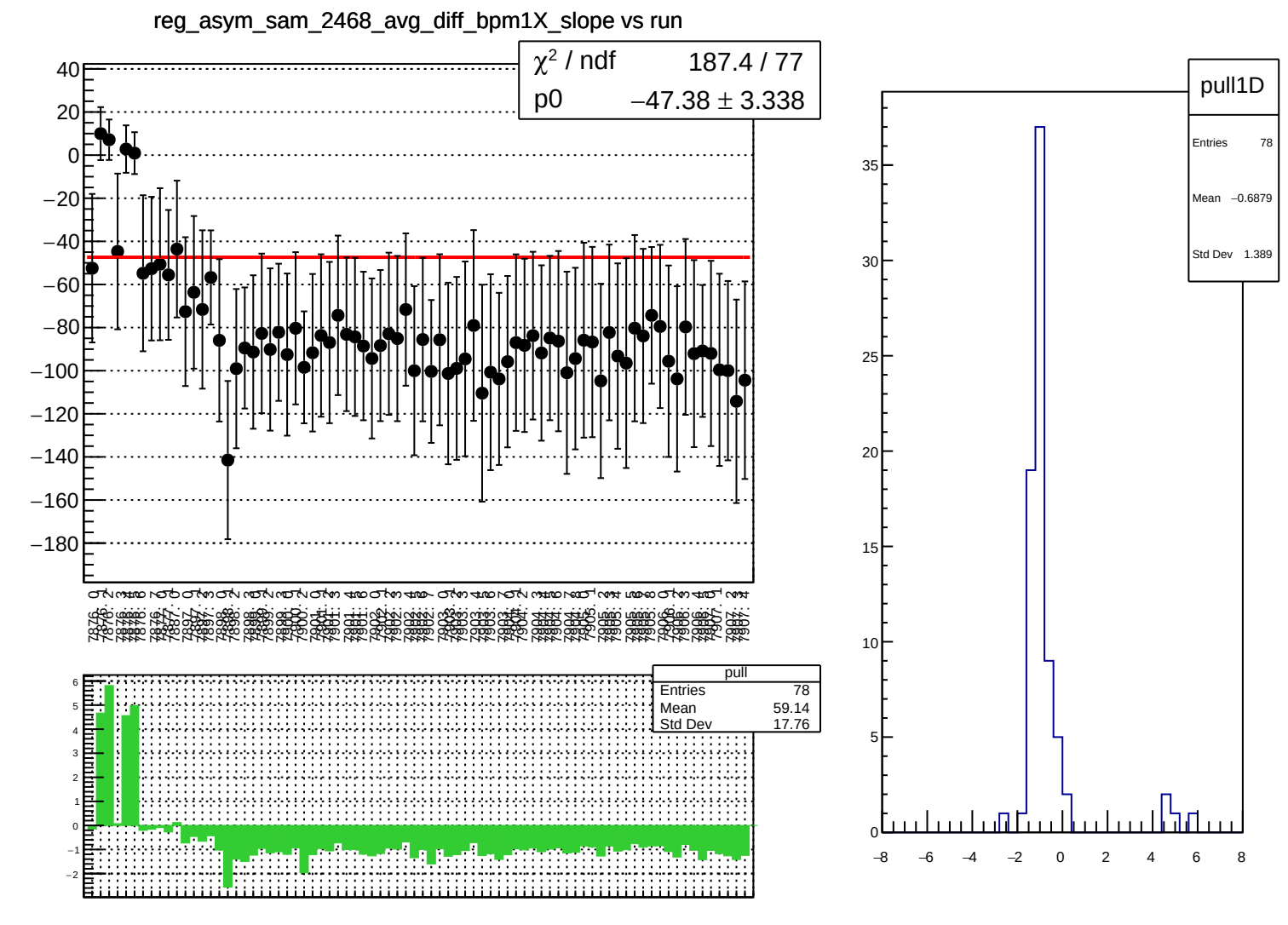

pull1D
Entries 78
Mean −0.8554
Std Dev 1.778

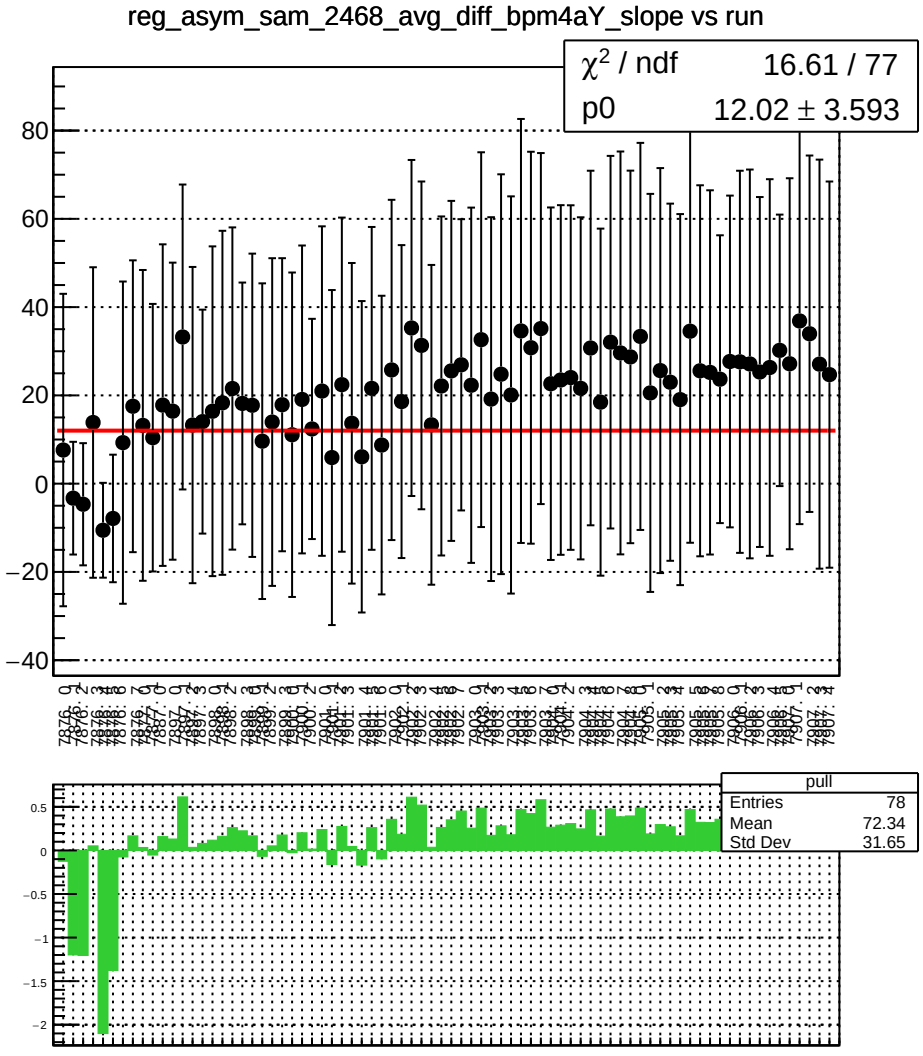

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.14 / 77
p0 14.96 ± 1.694
pull
Entries 78
Mean 70.47
Std Dev 30.37
pull1D
Entries 78
Mean 0.2802
Std Dev 0.7427

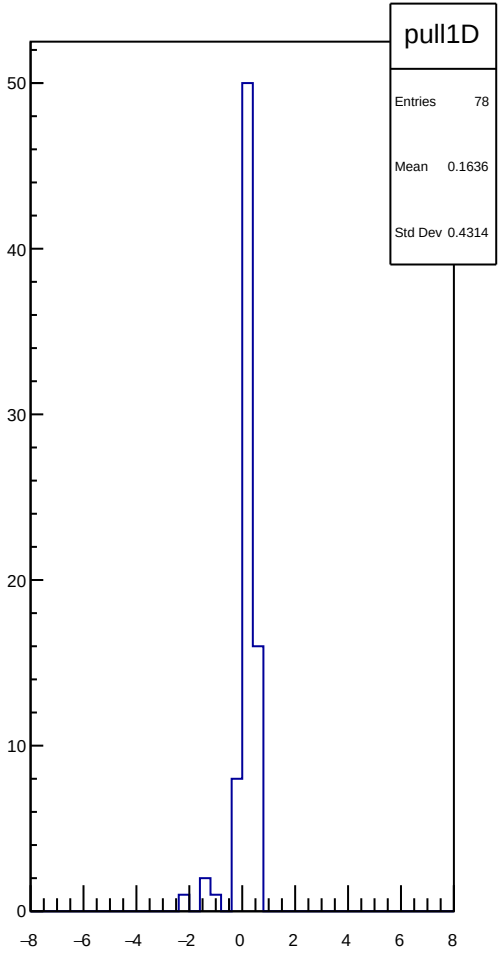

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 351.8 / 77
p0 −19.9 ± 1.275
pull
Entries 78
Mean 58.97
Std Dev 16.63
pull1D
Entries 78
Mean 0.9962
Std Dev 1.876

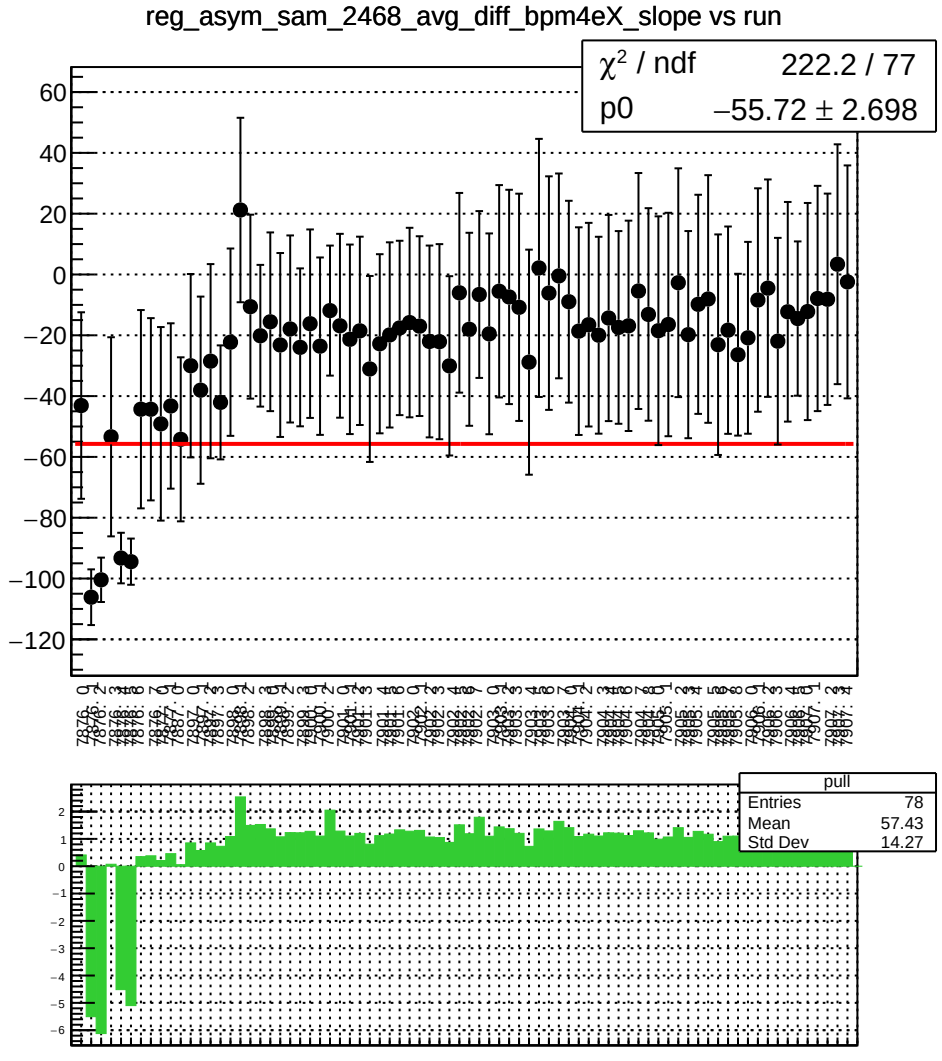

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 34.73 / 77
p0 13.04 ± 2.1
pull
Entries 78
Mean 83.02
Std Dev 46.01
pull1D
Entries 78
Mean −0.1649
Std Dev 0.6466

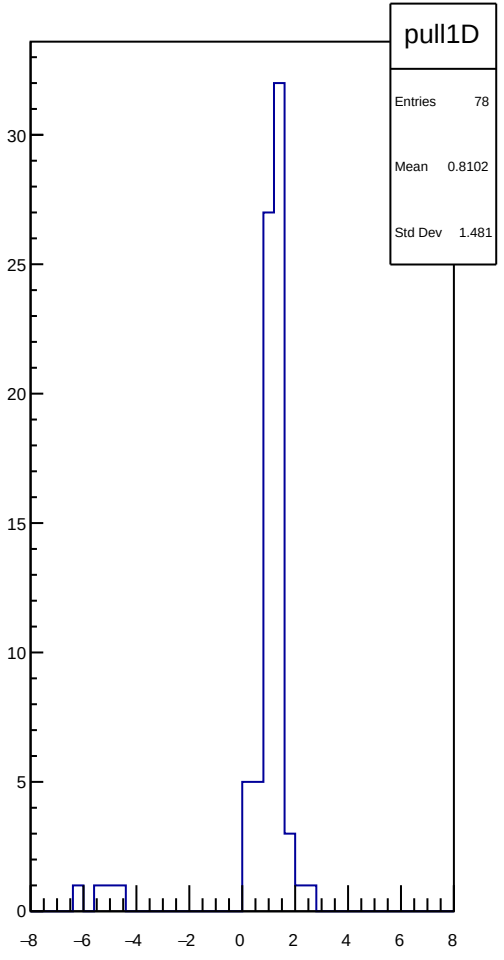

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 28.72 / 77
p0 −0.913 ± 0.07032
pull
Entries 78
Mean 320.5
Std Dev 287
pull1D
Entries 78
Mean −0.02807
Std Dev 0.6062

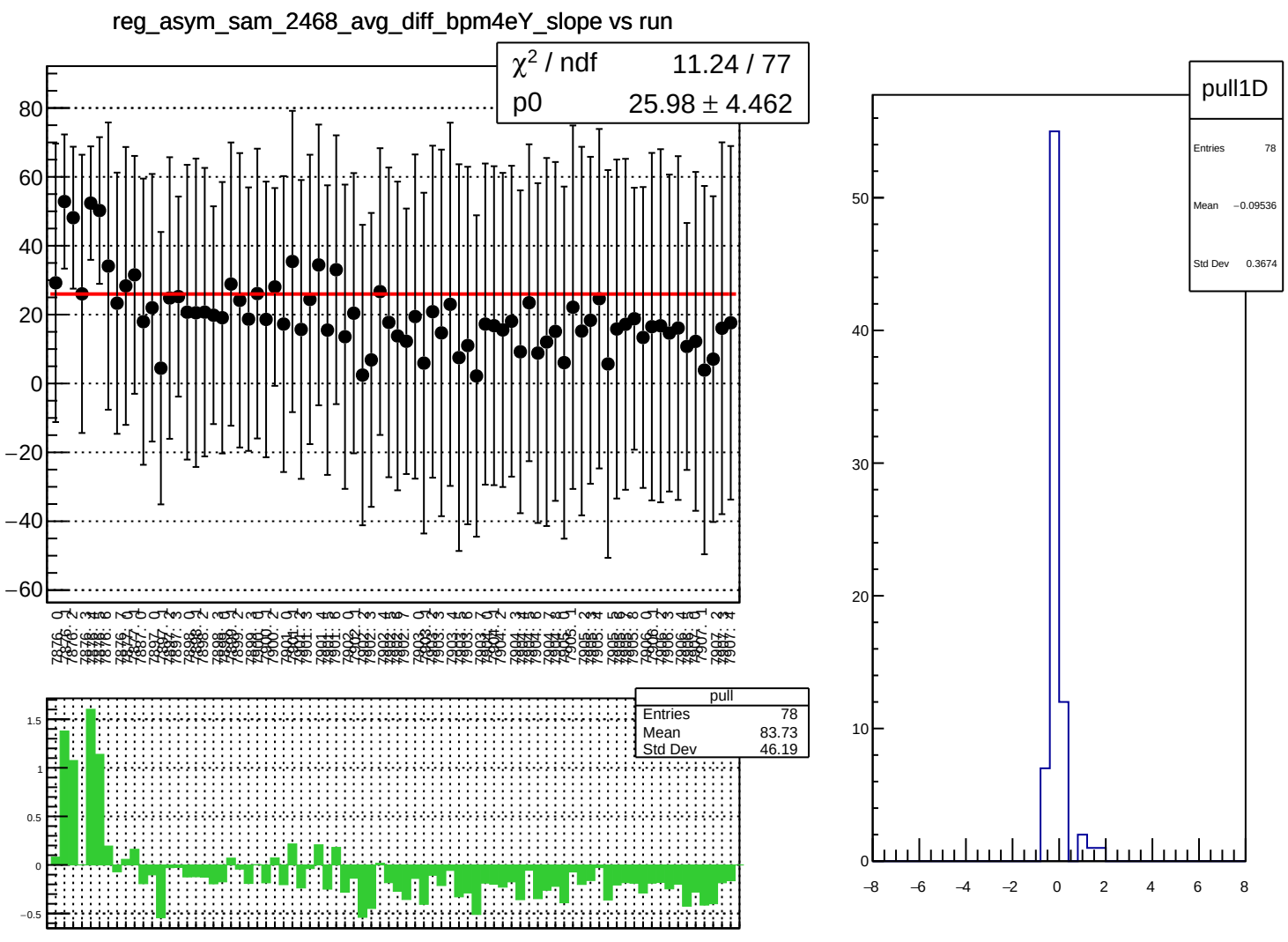

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 187.4 / 77
p0 −47.38 ± 3.338
pull
Entries 78
Mean 59.14
Std Dev 17.76
pull1D
Entries 78
Mean −0.6879
Std Dev 1.389

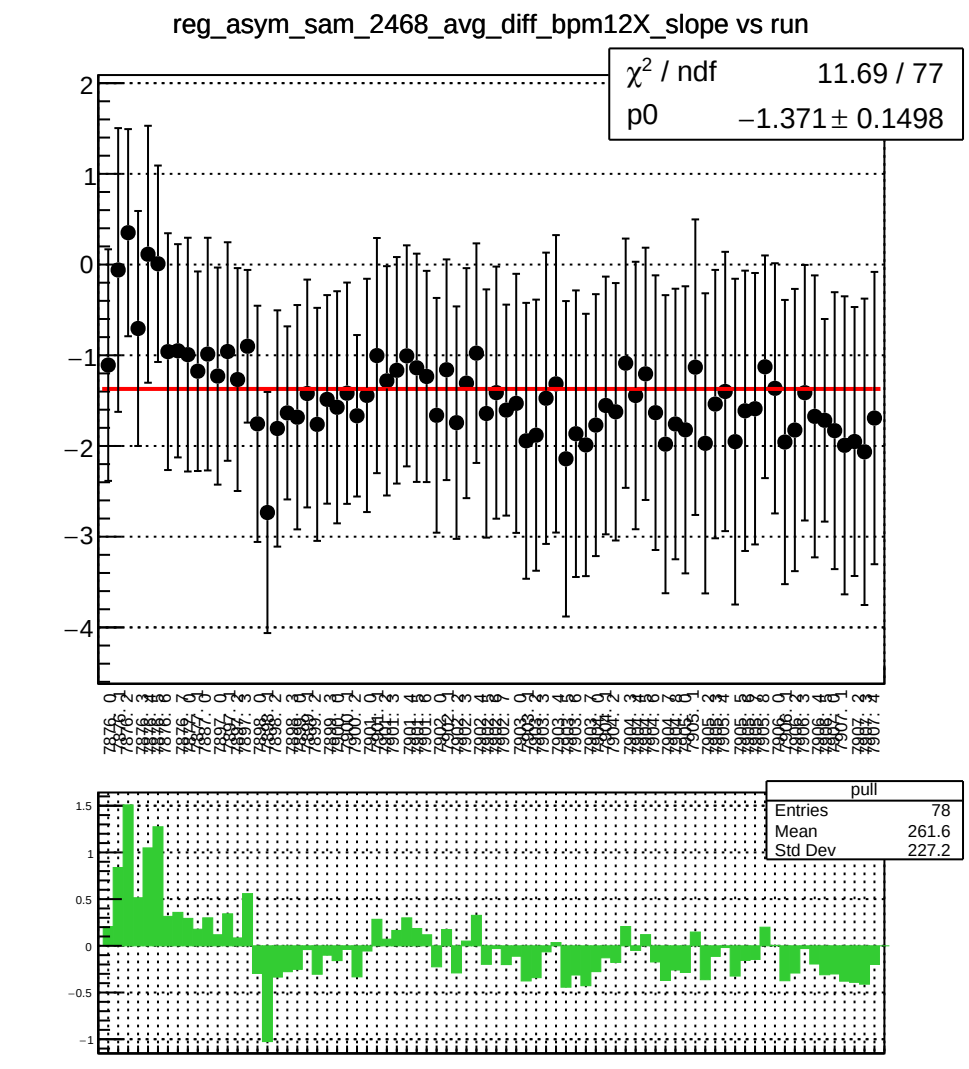

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.61 / 77
p0 12.02 ± 3.593
pull
Entries 78
Mean 72.34
Std Dev 31.65

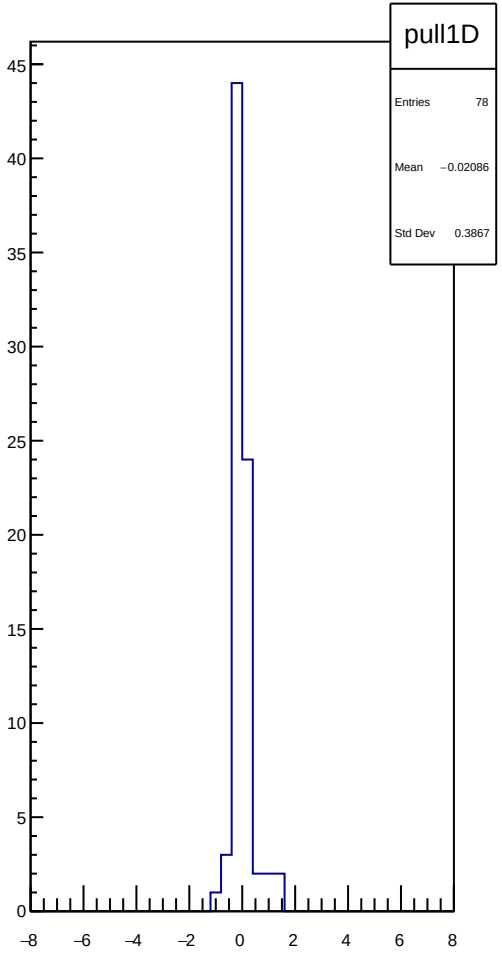

pull1D
Entries 78
Mean 0.1636
Std Dev 0.4314

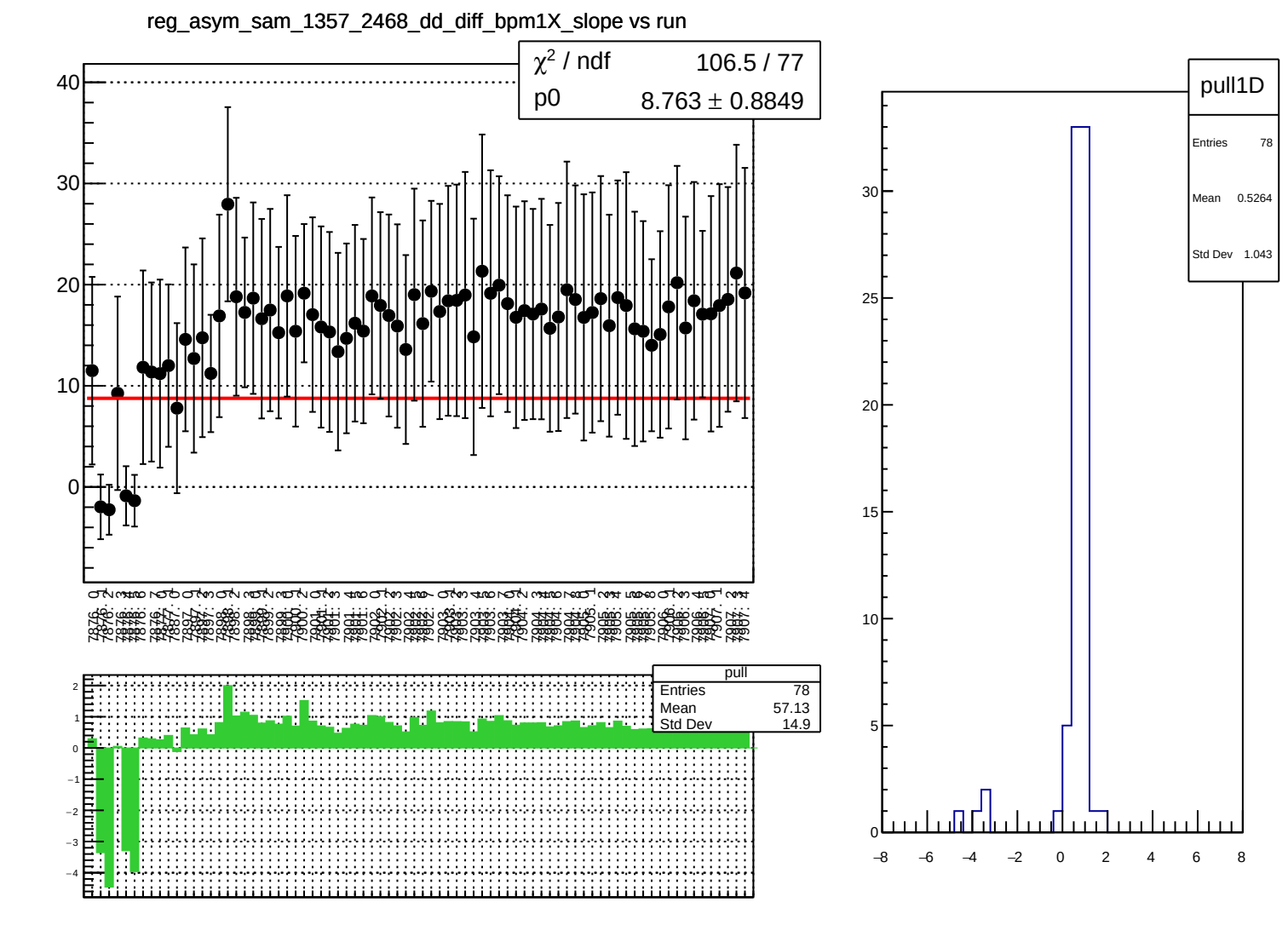

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 222.2 / 77
p0 −55.72 ± 2.698
pull
Entries 78
Mean 57.43
Std Dev 14.27

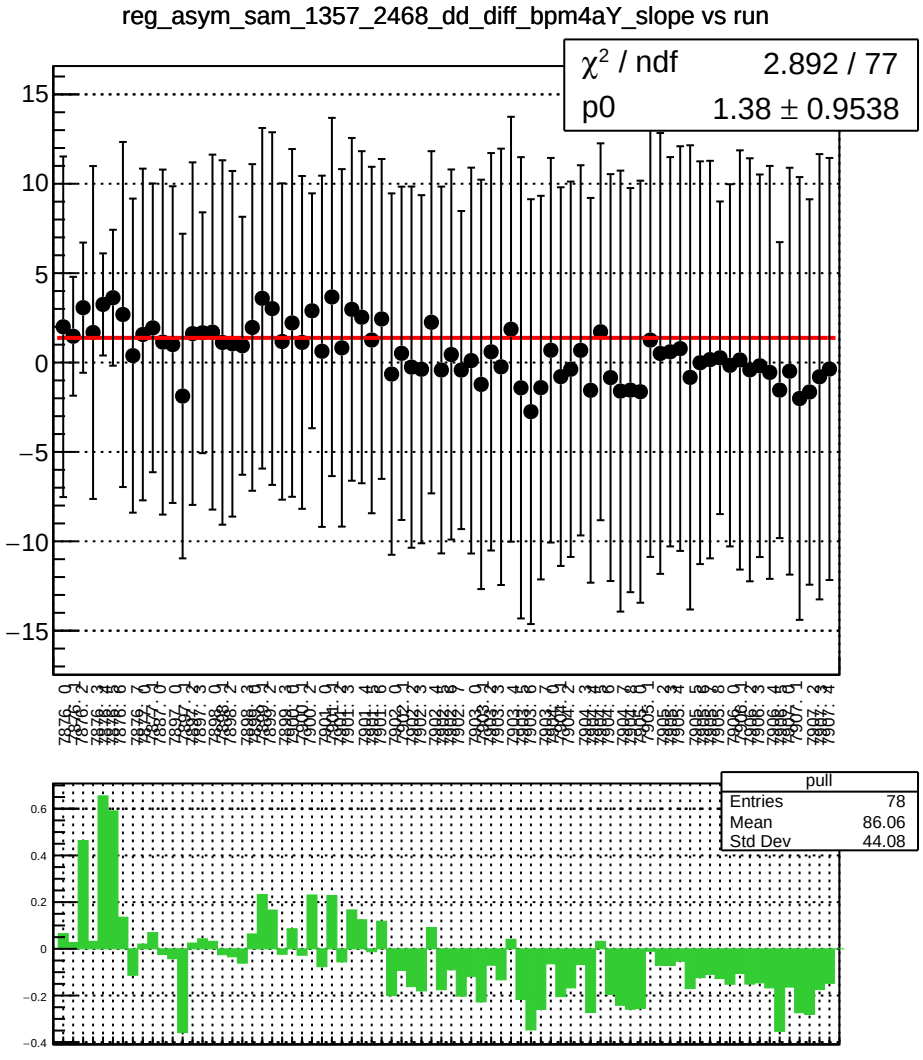

pull1D
Entries 78
Mean 0.8102
Std Dev 1.481

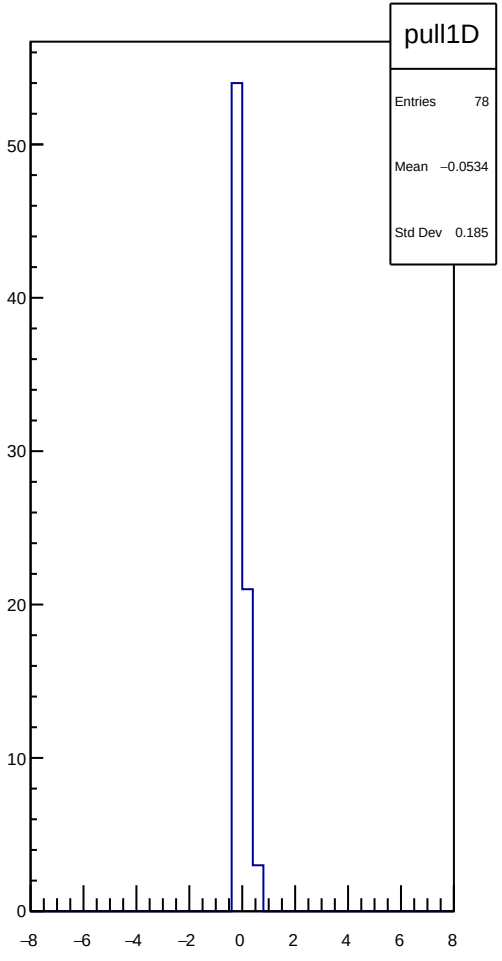

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.24 / 77
p0 25.98 ± 4.462
pull
Entries 78
Mean 83.73
Std Dev 46.19
pull1D
Entries 78
Mean −0.09536
Std Dev 0.3674

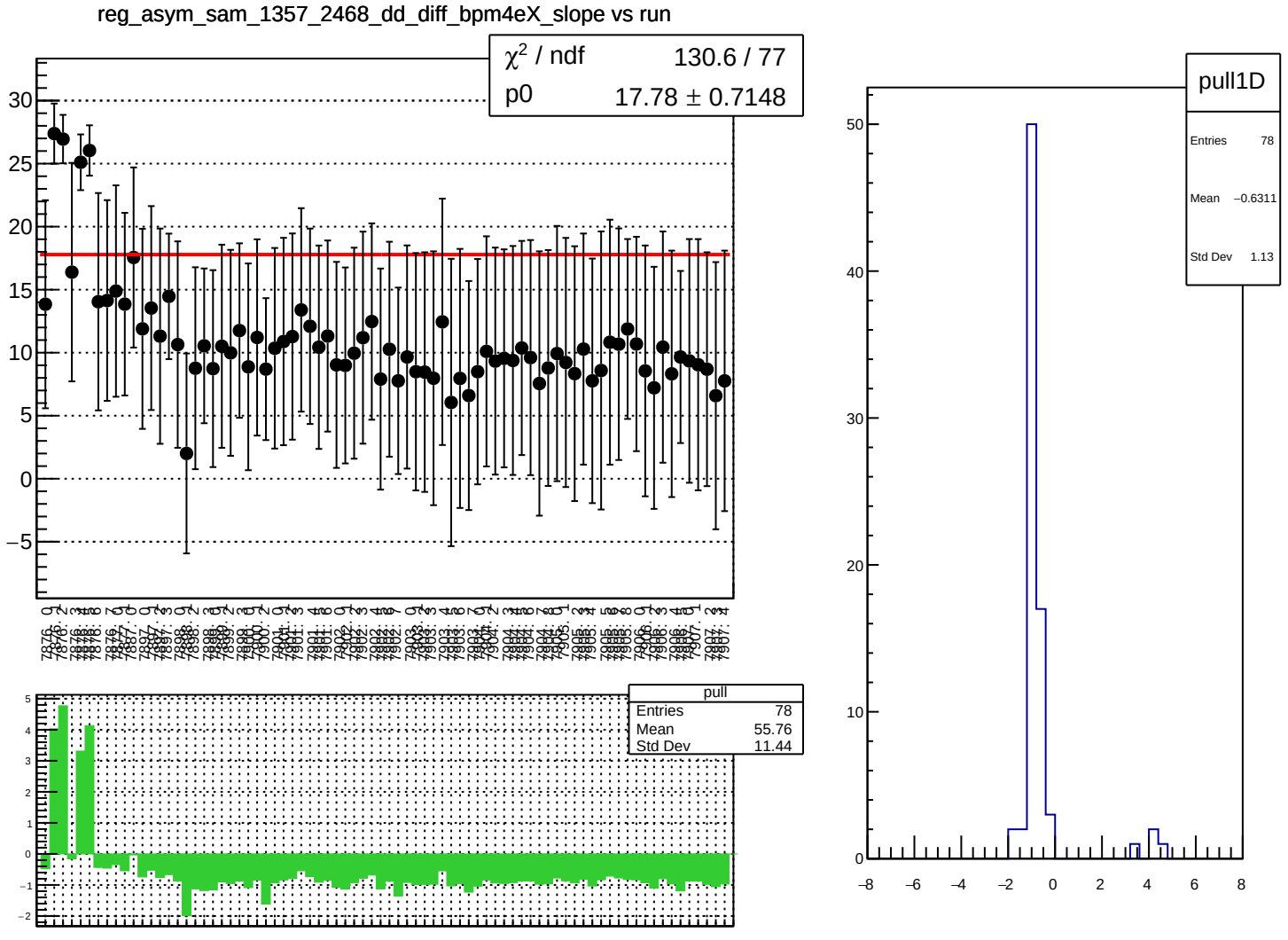

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 11.69 / 77
p0 −1.371 ± 0.1498
pull
Entries 78
Mean 261.6
Std Dev 227.2

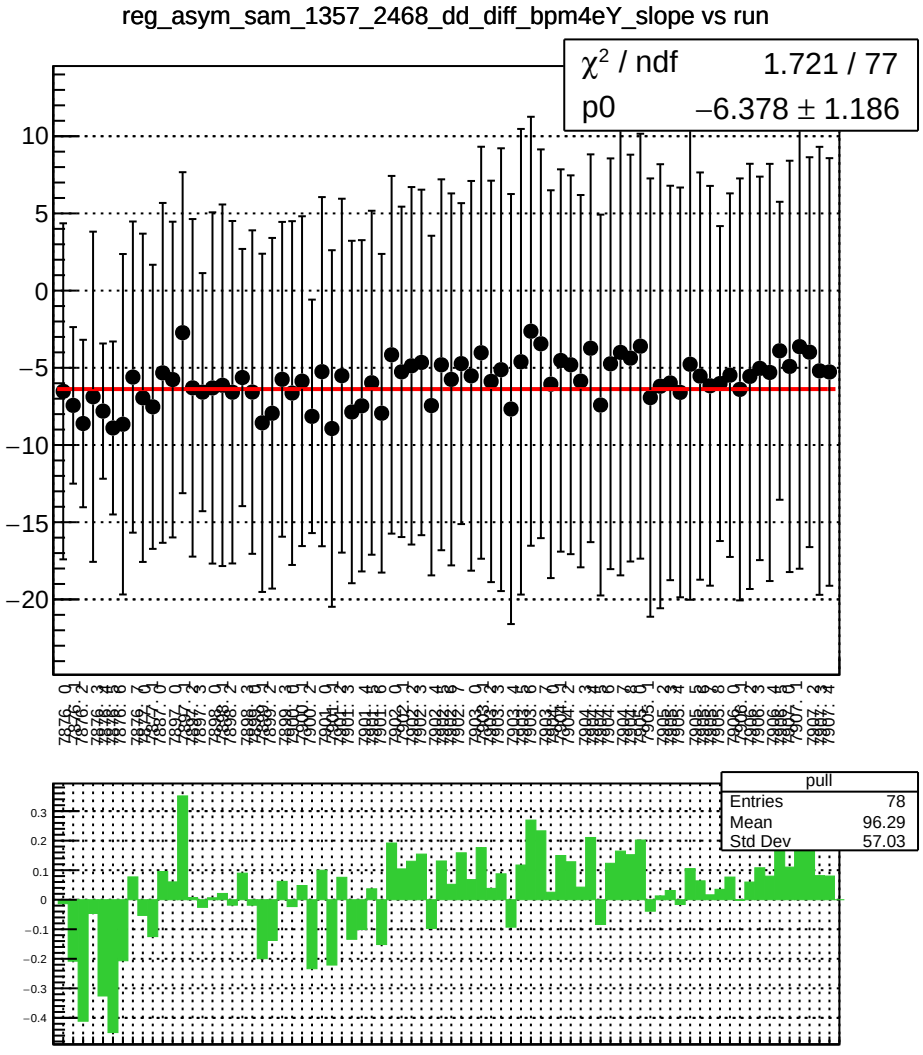

pull1D
Entries 78
Mean −0.02086
Std Dev 0.3867

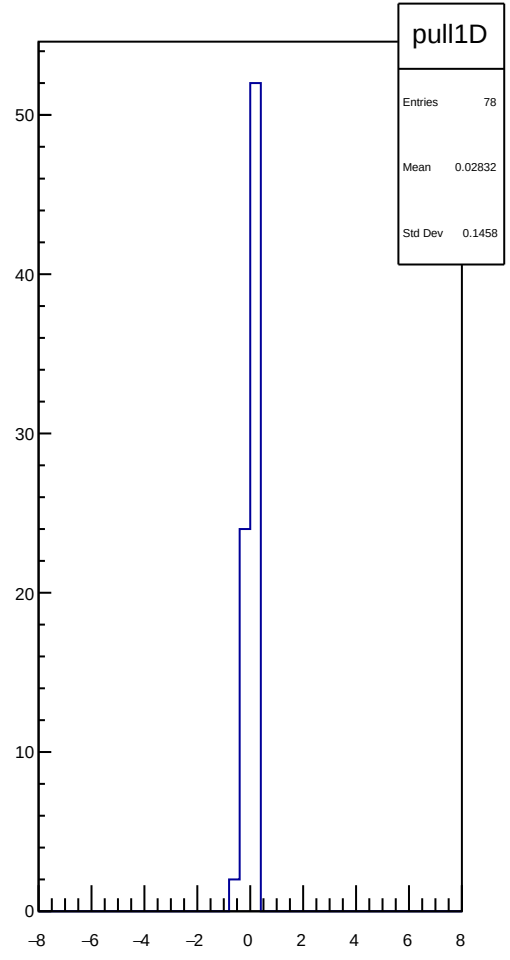

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 106.5 / 77
p0 8.763 ± 0.8849
pull
Entries 78
Mean 57.13
Std Dev 14.9
pull1D
Entries 78
Mean 0.5264
Std Dev 1.043

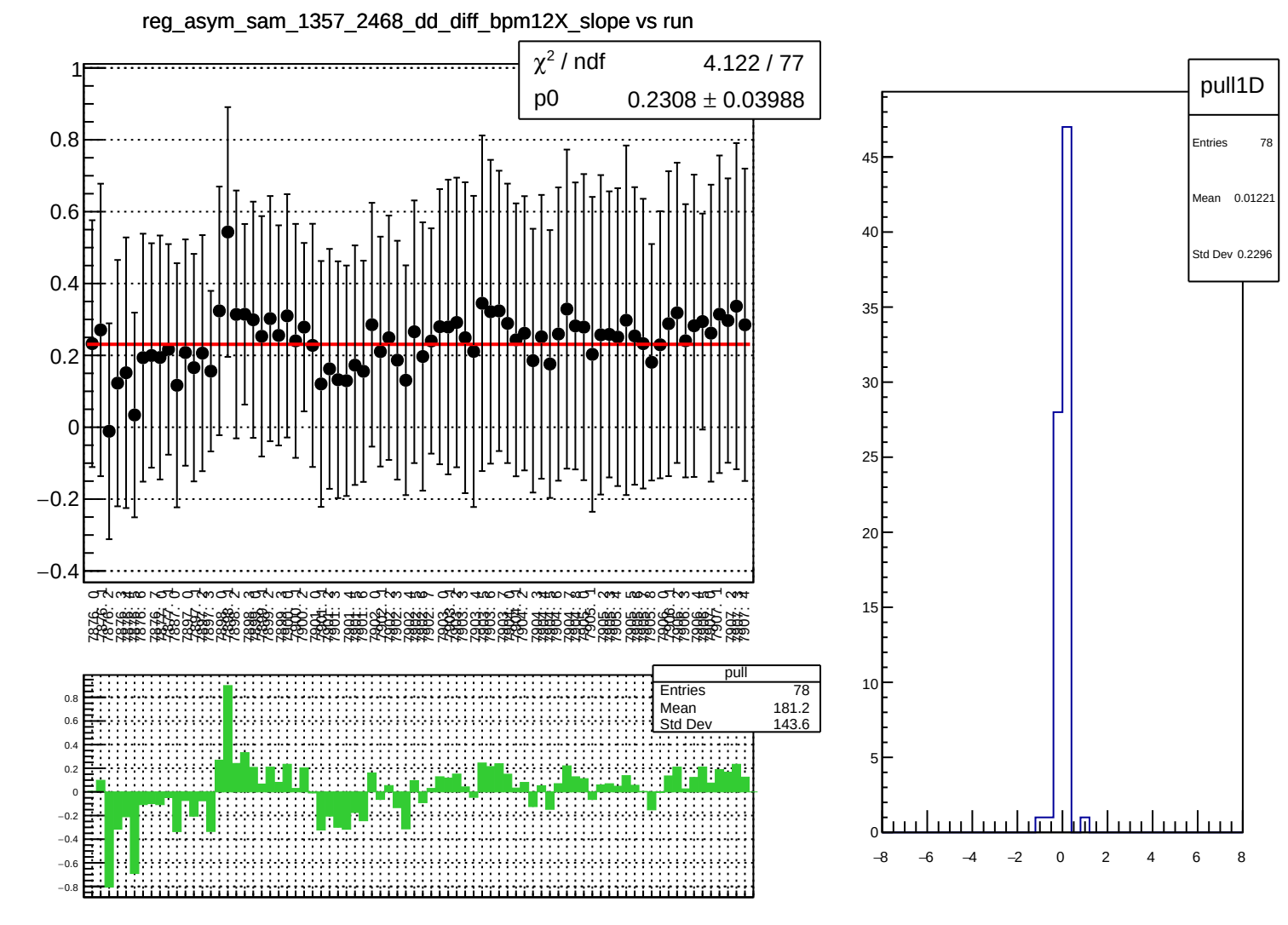

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.892 / 77
p0 1.38 ± 0.9538
pull
Entries 78
Mean 86.06
Std Dev 44.08

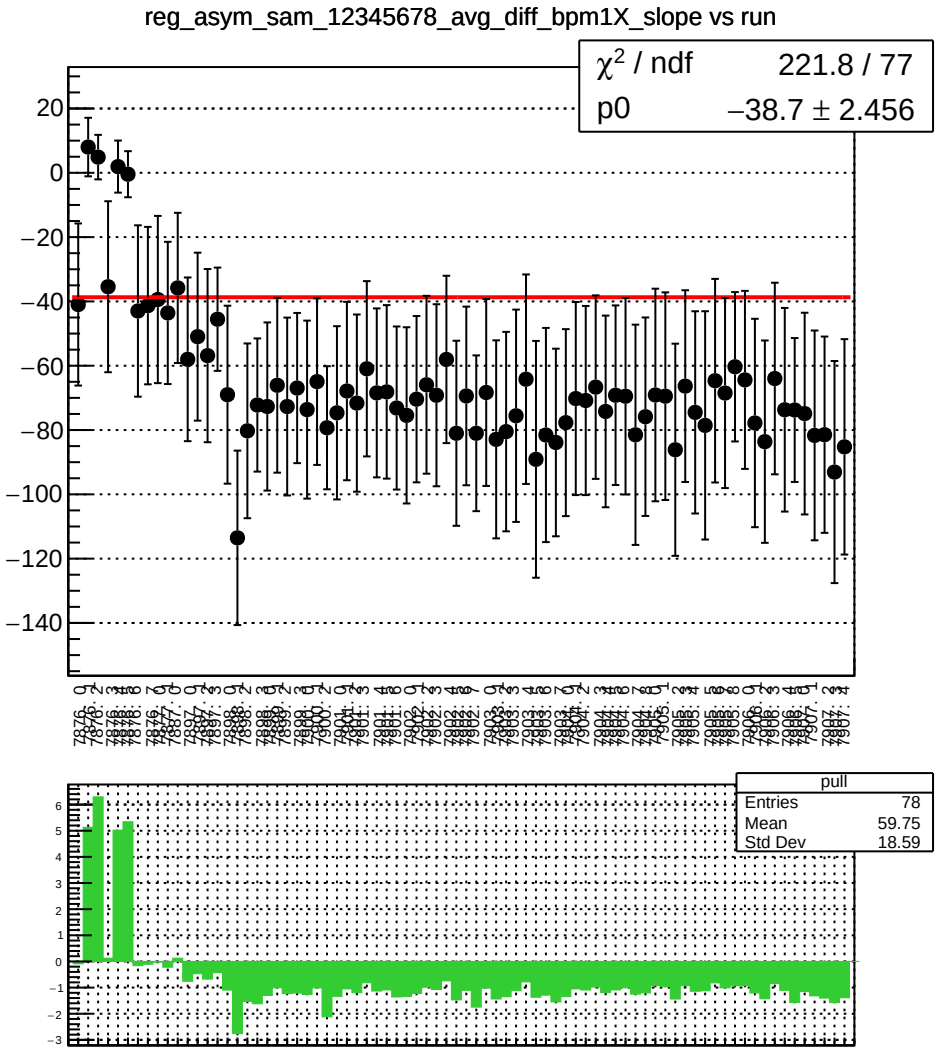

pull1D
Entries 78
Mean −0.0534
Std Dev 0.185

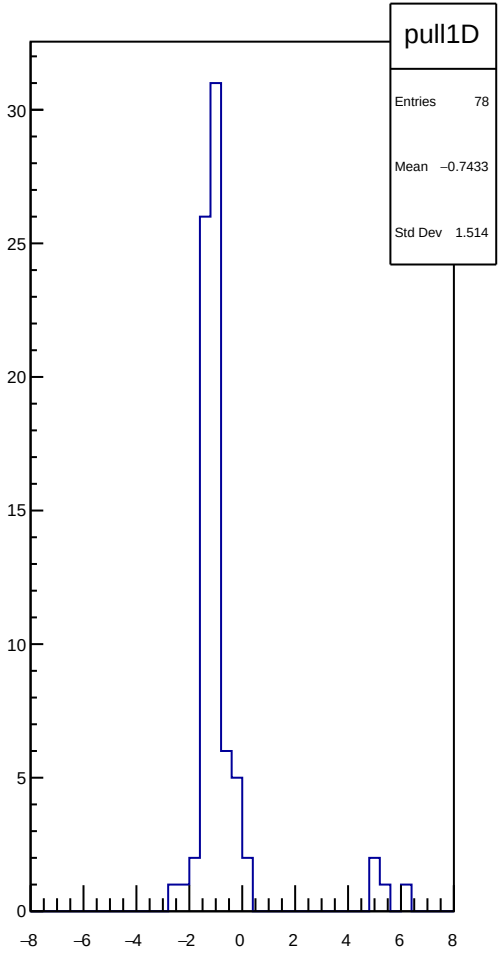

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 130.6 / 77
p0 17.78 ± 0.7148
pull
Entries 78
Mean 55.76
Std Dev 11.44
pull1D
Entries 78
Mean −0.6311
Std Dev 1.13

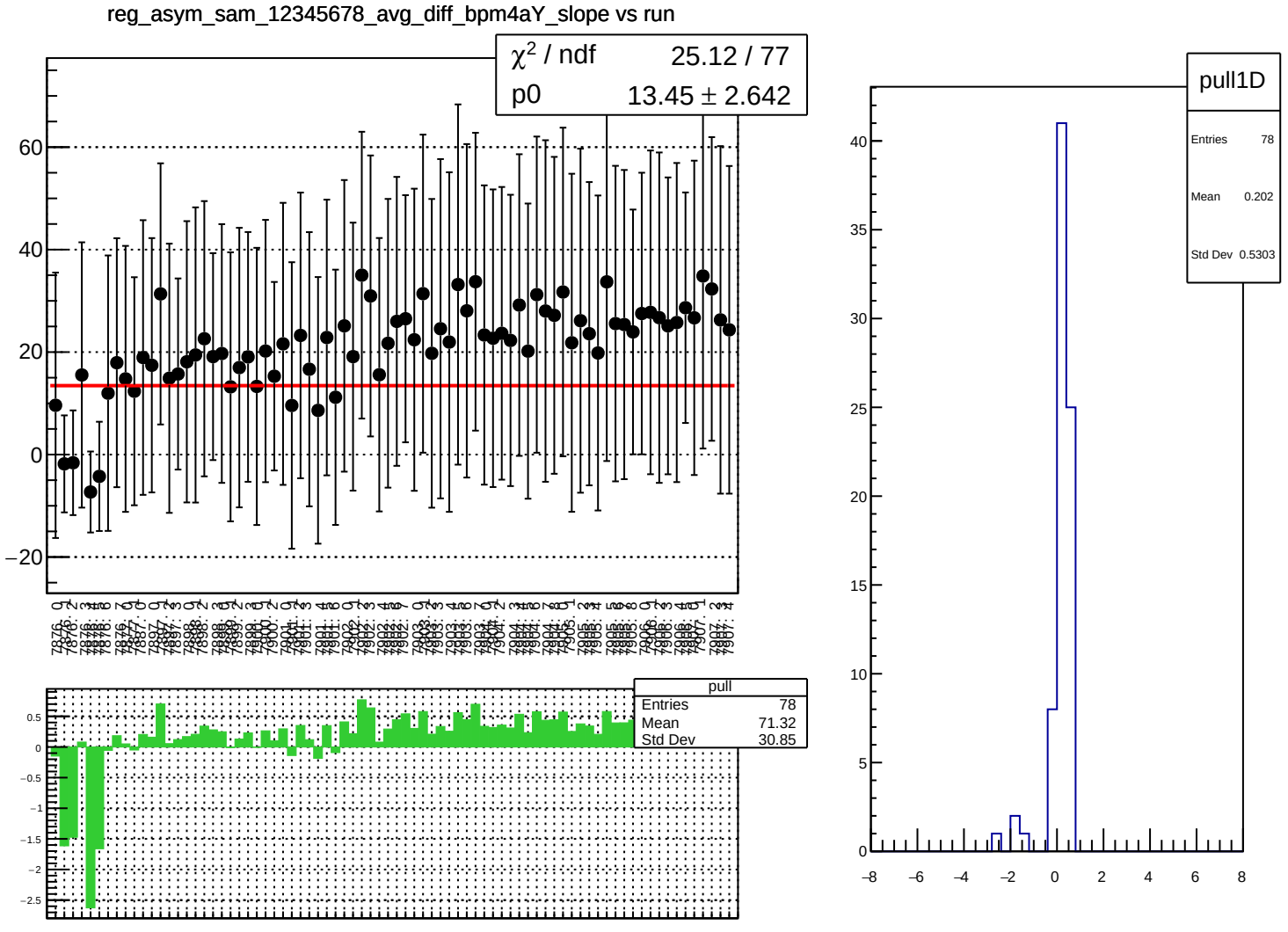

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.721 / 77
p0 −6.378 ± 1.186
pull
Entries 78
Mean 96.29
Std Dev 57.03

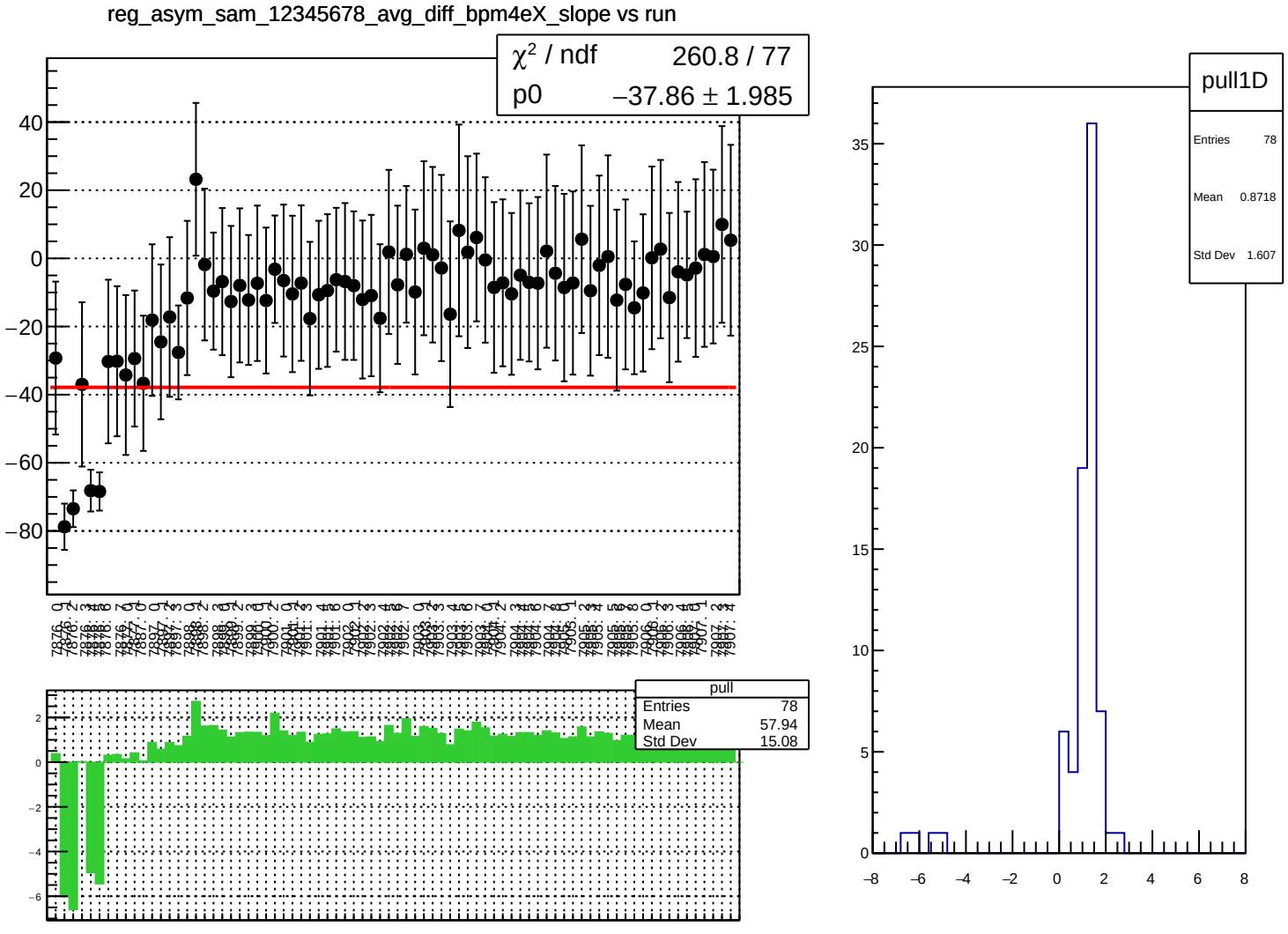

pull1D
Entries 78
Mean 0.02832
Std Dev 0.1458

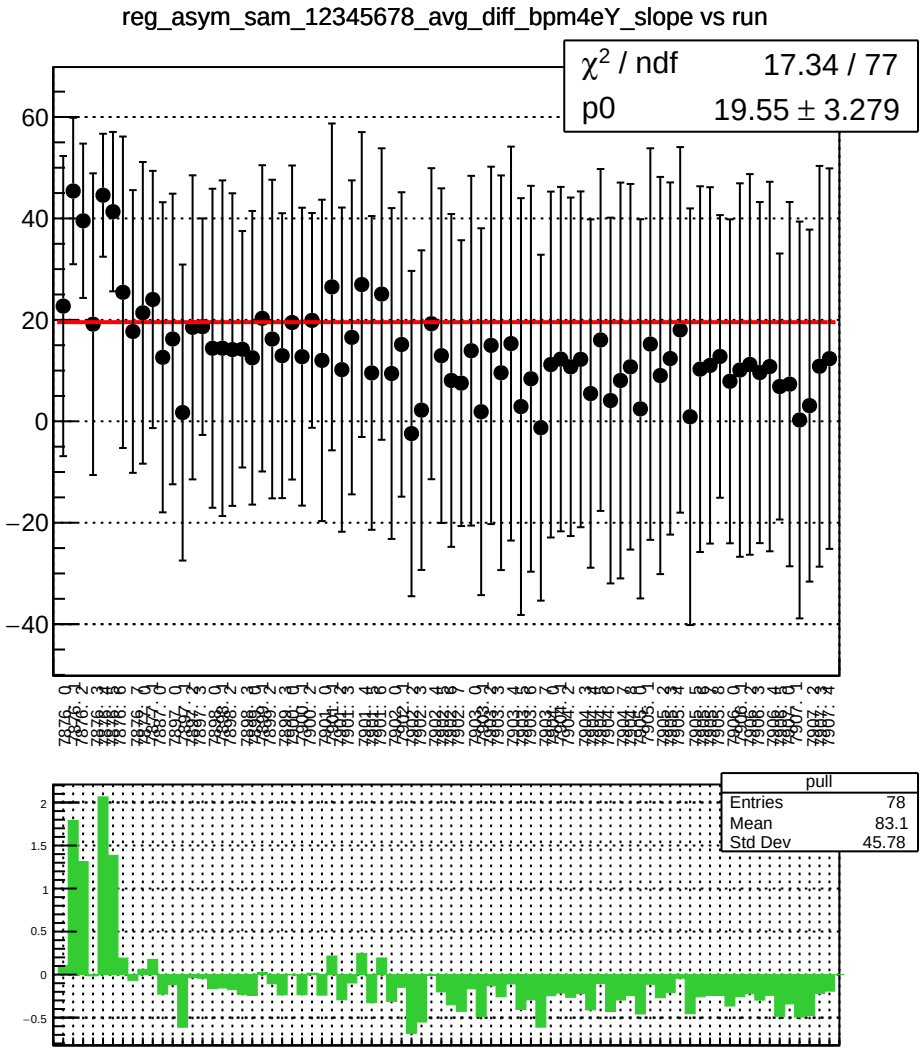

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 4.122 / 77
p0 0.2308 ± 0.03988
pull
Entries 78
Mean 181.2
Std Dev 143.6
pull1D
Entries 78
Mean 0.01221
Std Dev 0.2296

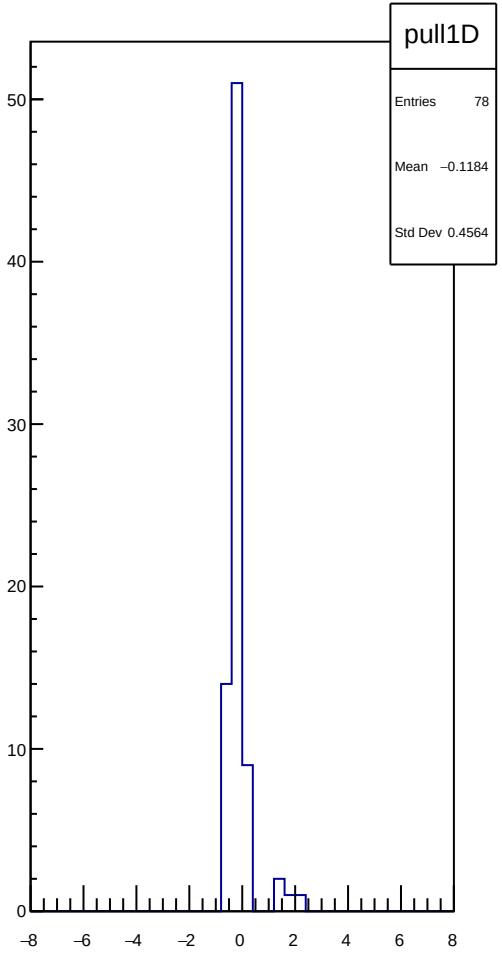

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 221.8 / 77
p0 −38.7 ± 2.456
pull
Entries 78
Mean 59.75
Std Dev 18.59

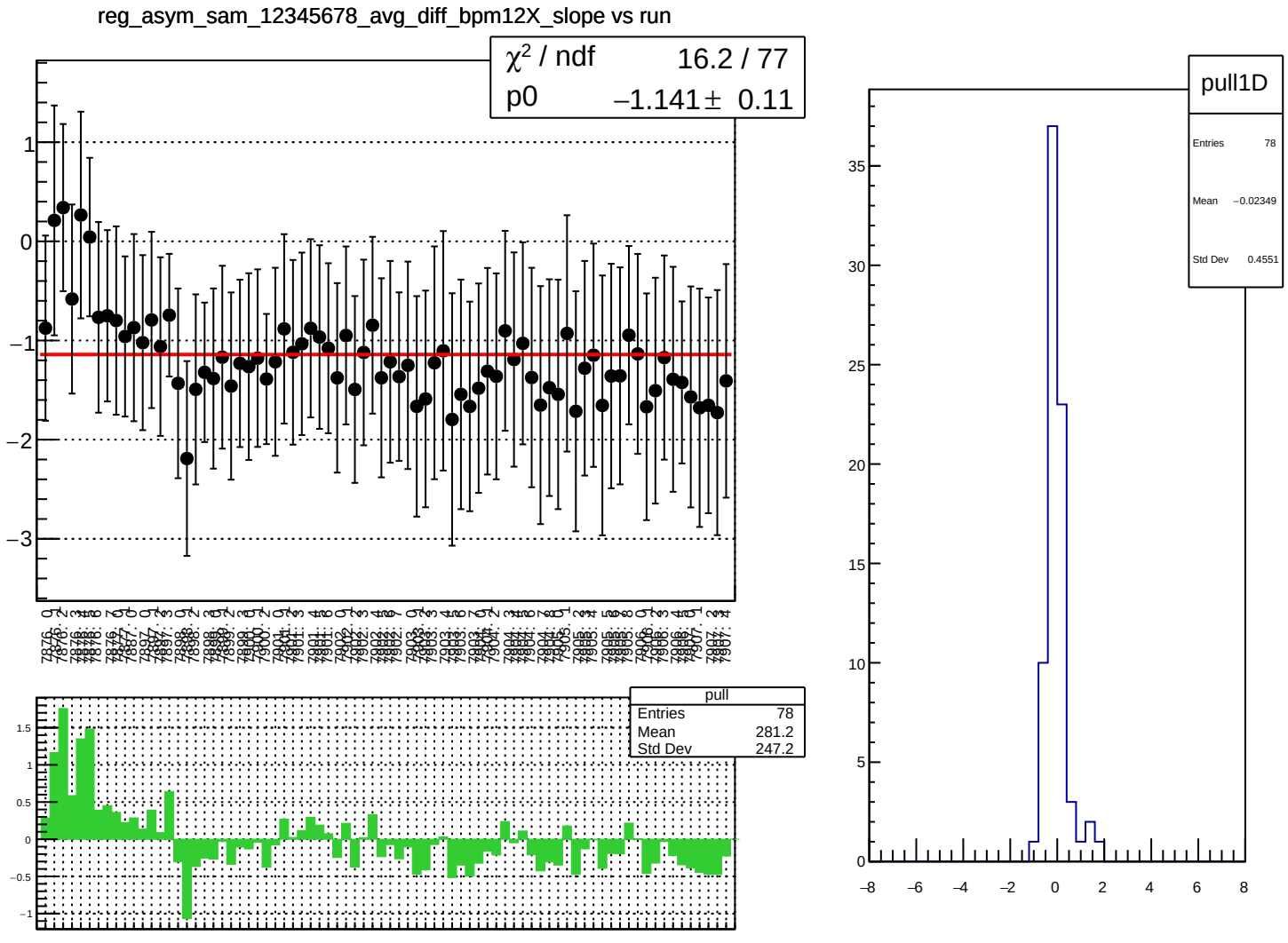

pull1D
Entries 78
Mean −0.7433
Std Dev 1.514

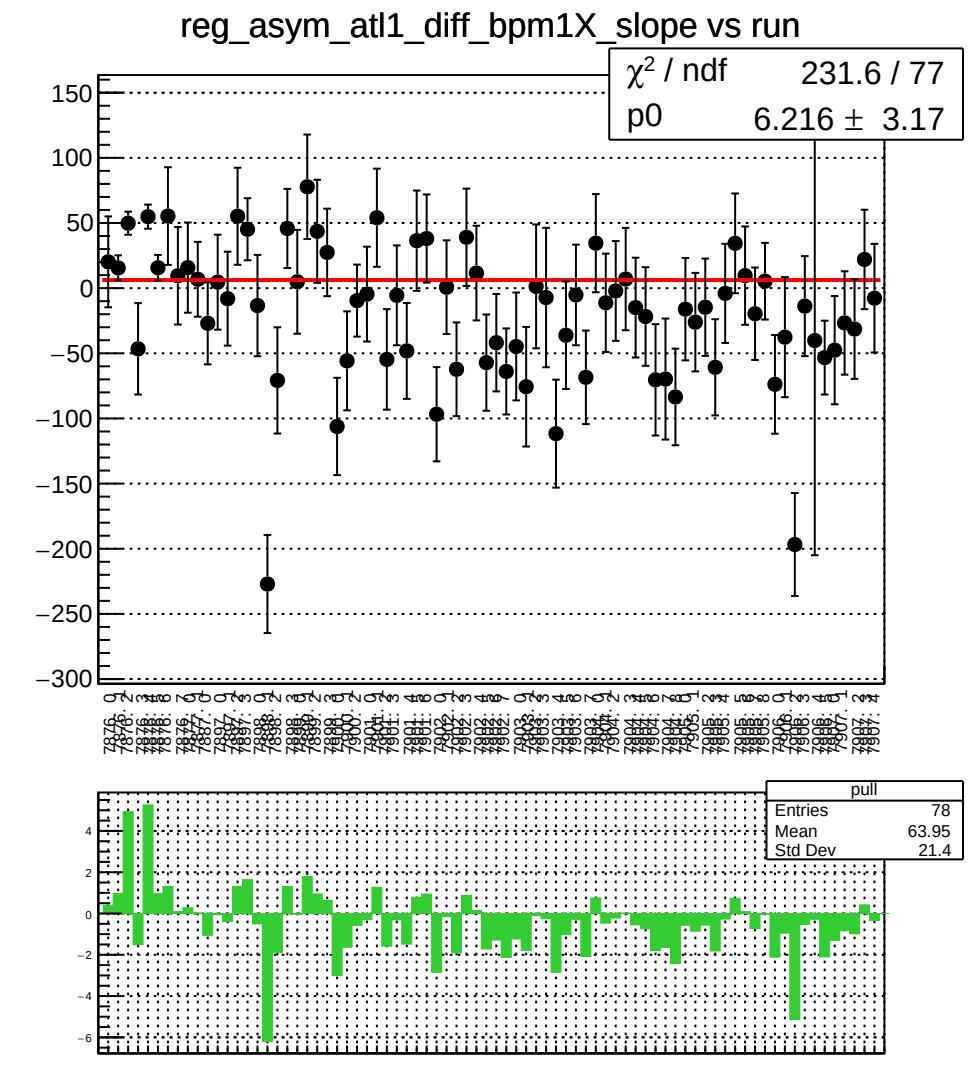

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.12 / 77
p0 13.45 ± 2.642
pull
Entries 78
Mean 71.32
Std Dev 30.85
pull1D
Entries 78
Mean 0.202
Std Dev 0.5303

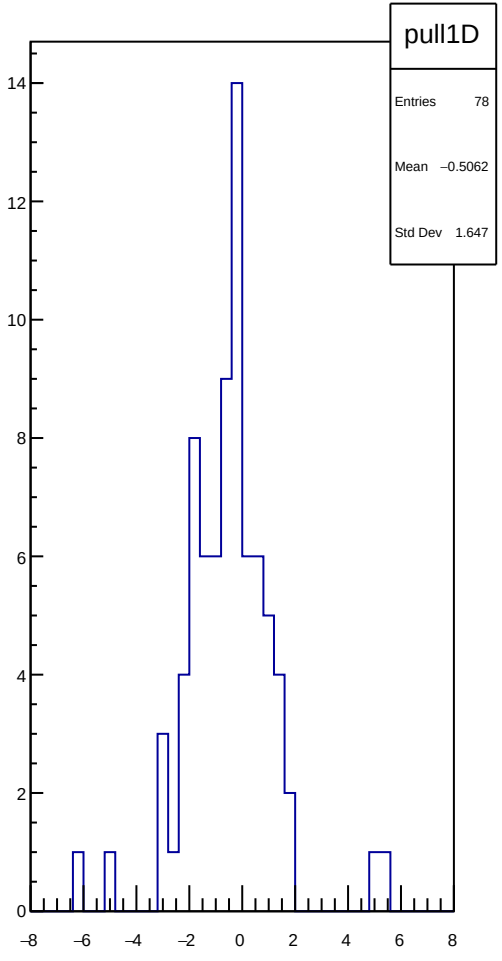

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 260.8 / 77
p0 −37.86 ± 1.985
pull
Entries 78
Mean 57.94
Std Dev 15.08
pull1D
Entries 78
Mean 0.8718
Std Dev 1.607

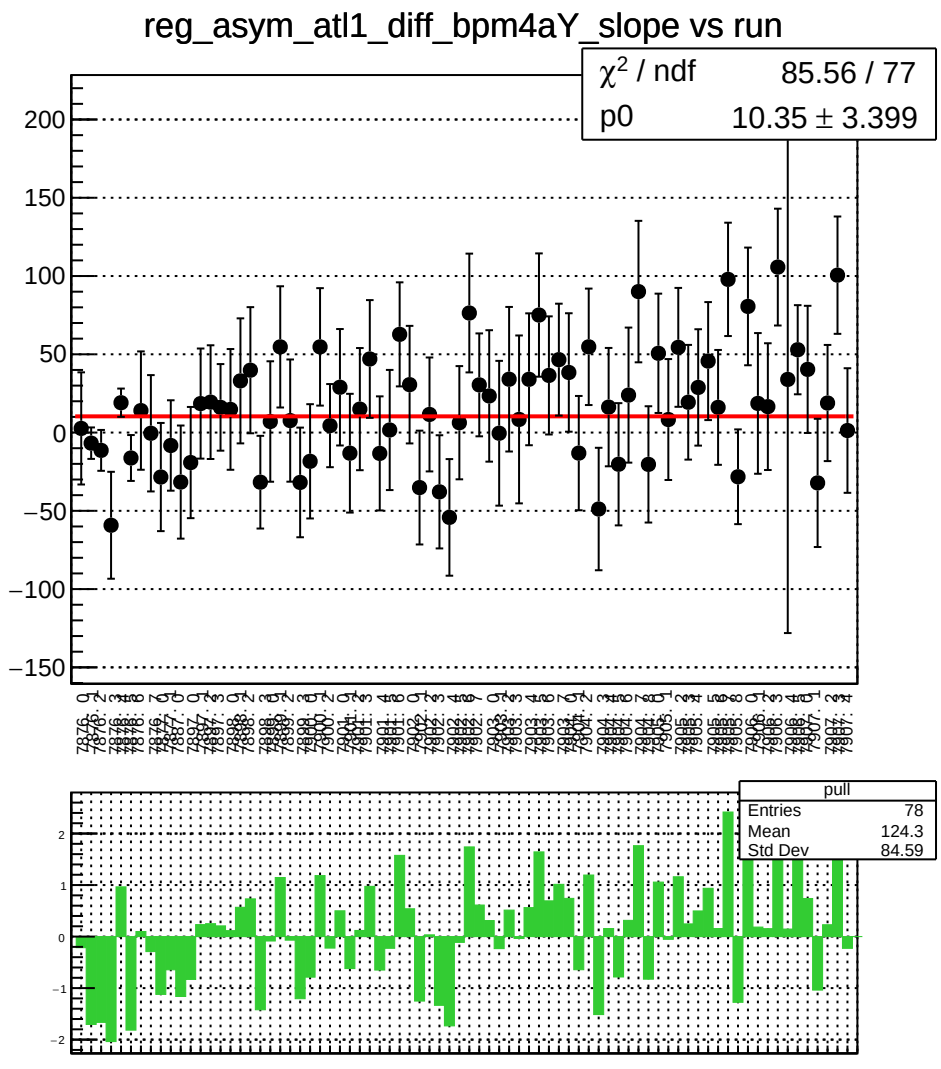

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.34 / 77
p0 19.55 ± 3.279
pull
Entries 78
Mean 83.1
Std Dev 45.78

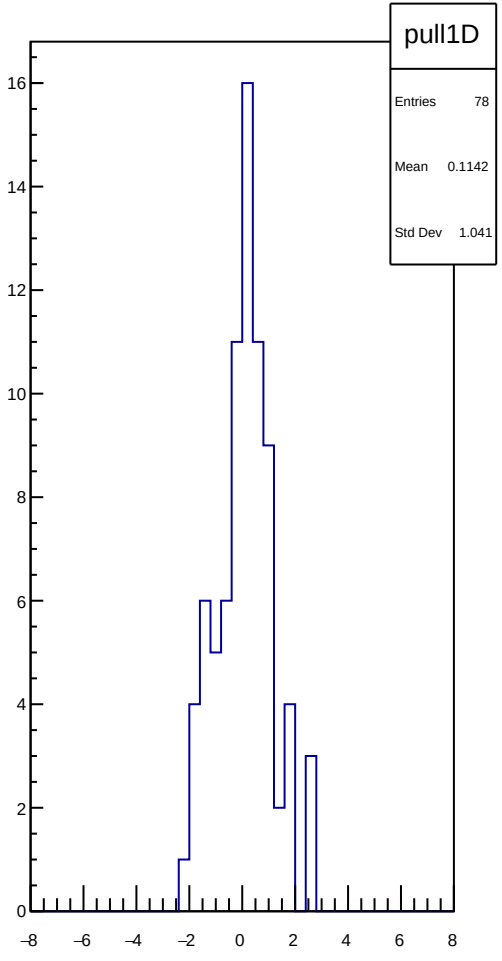

pull1D
Entries 78
Mean −0.1184
Std Dev 0.4564

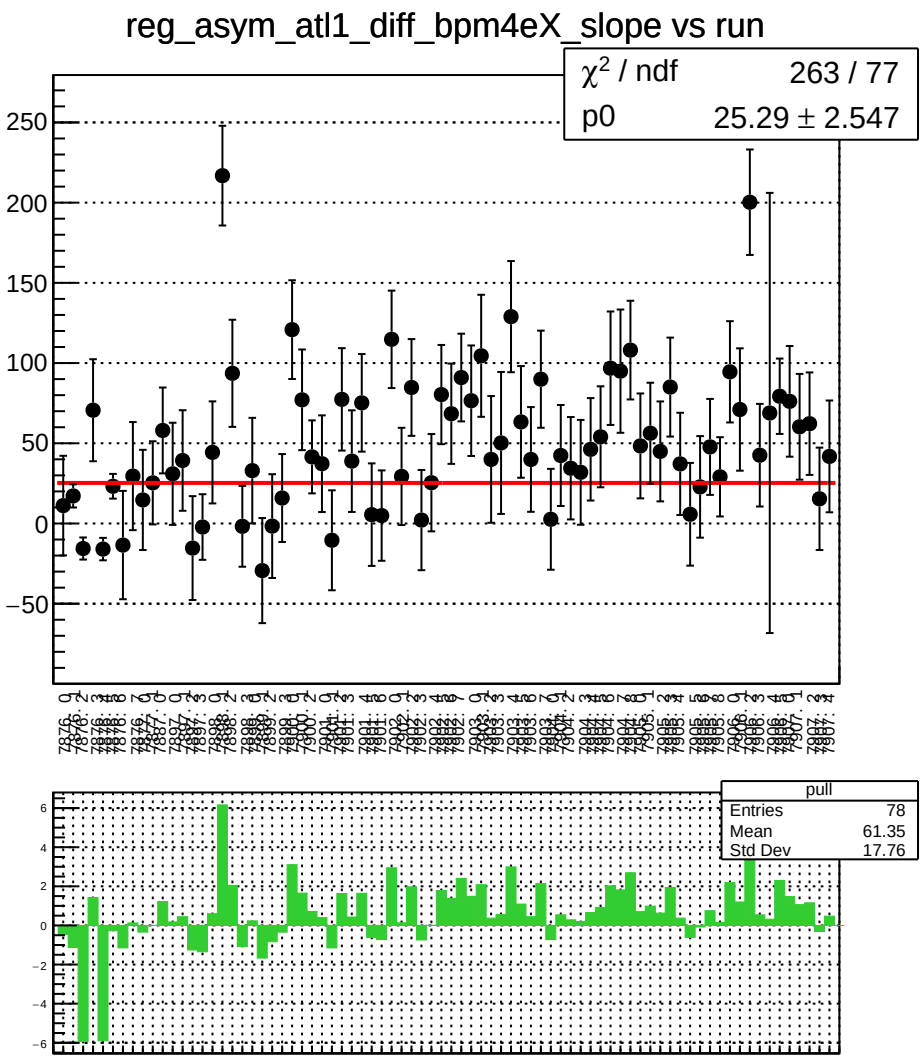

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 16.2 / 77
p0 −1.141 ± 0.11
pull
Entries 78
Mean 281.2
Std Dev 247.2
pull1D
Entries 78
Mean −0.02349
Std Dev 0.4551

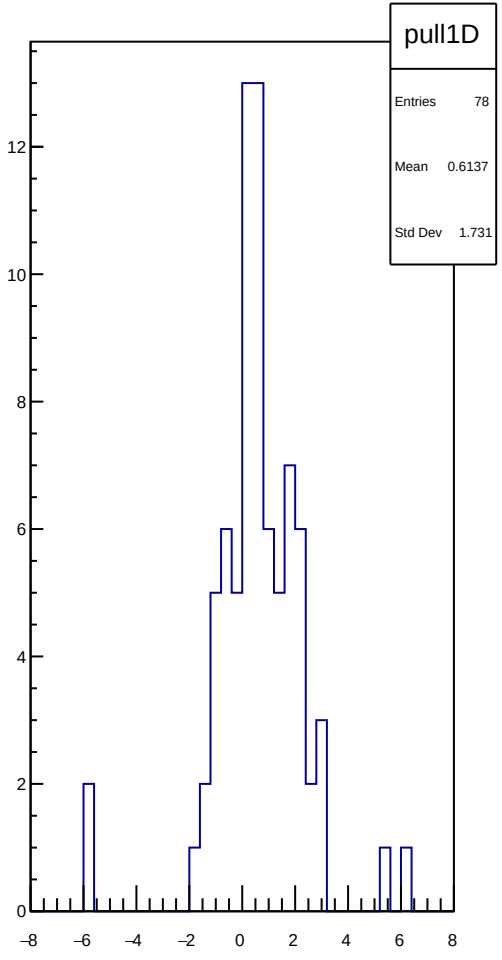

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 231.6 / 77
p0 6.216 ± 3.17
pull
Entries 78
Mean 63.95
Std Dev 21.4

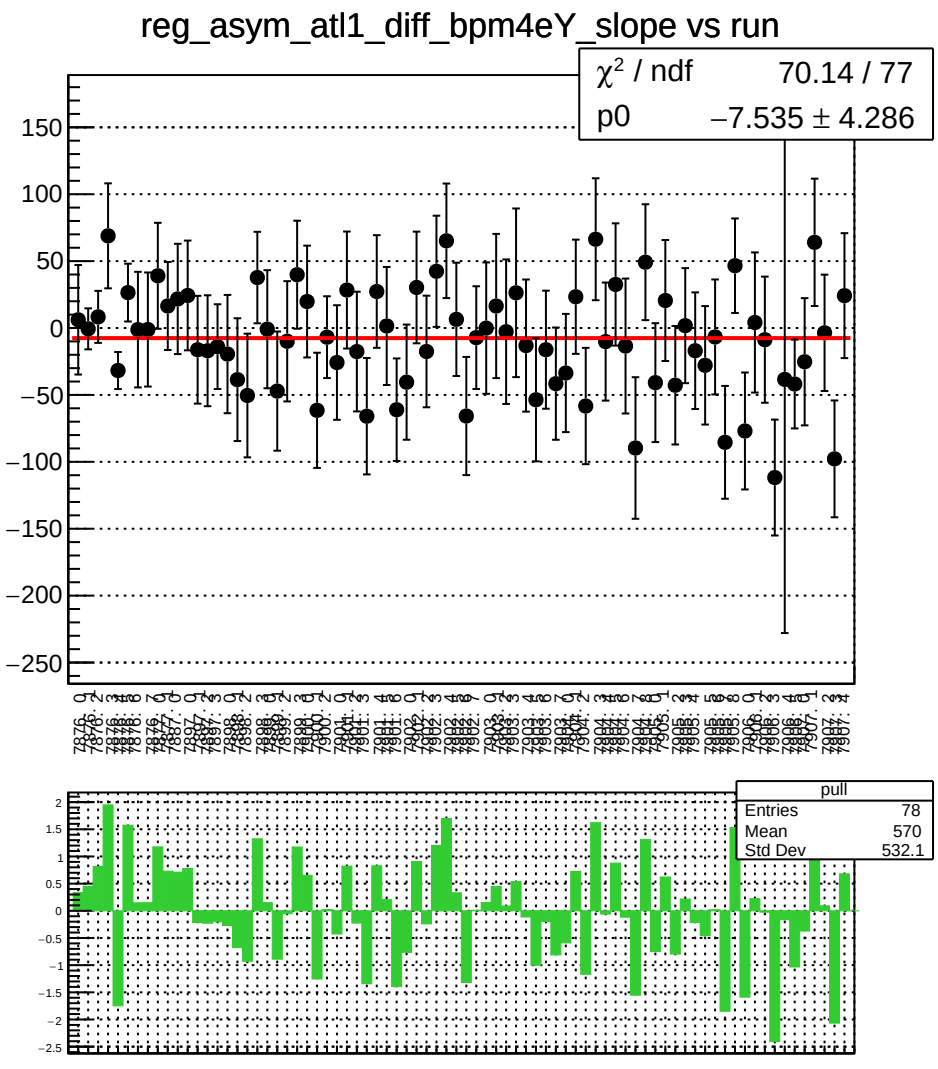

pull1D
Entries 78
Mean −0.5062
Std Dev 1.647

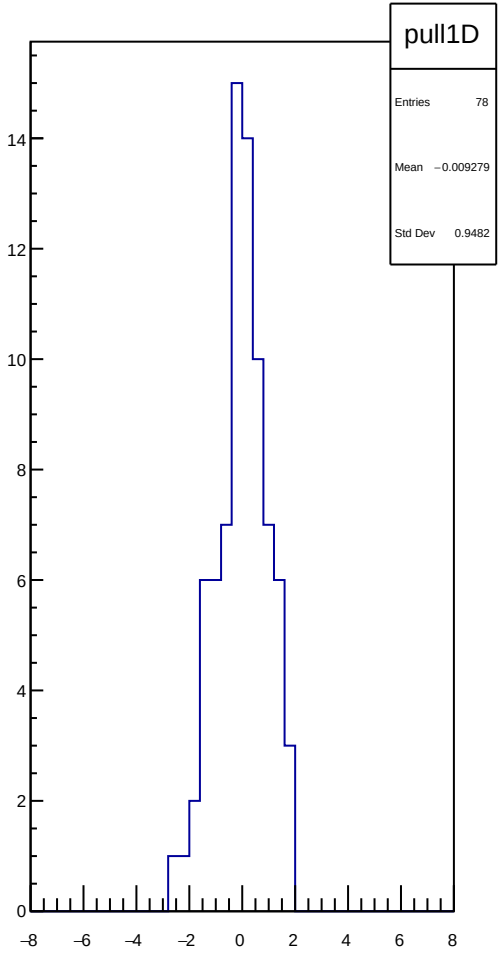

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 85.56 / 77
p0 10.35 ± 3.399
pull
Entries 78
Mean 124.3
Std Dev 84.59

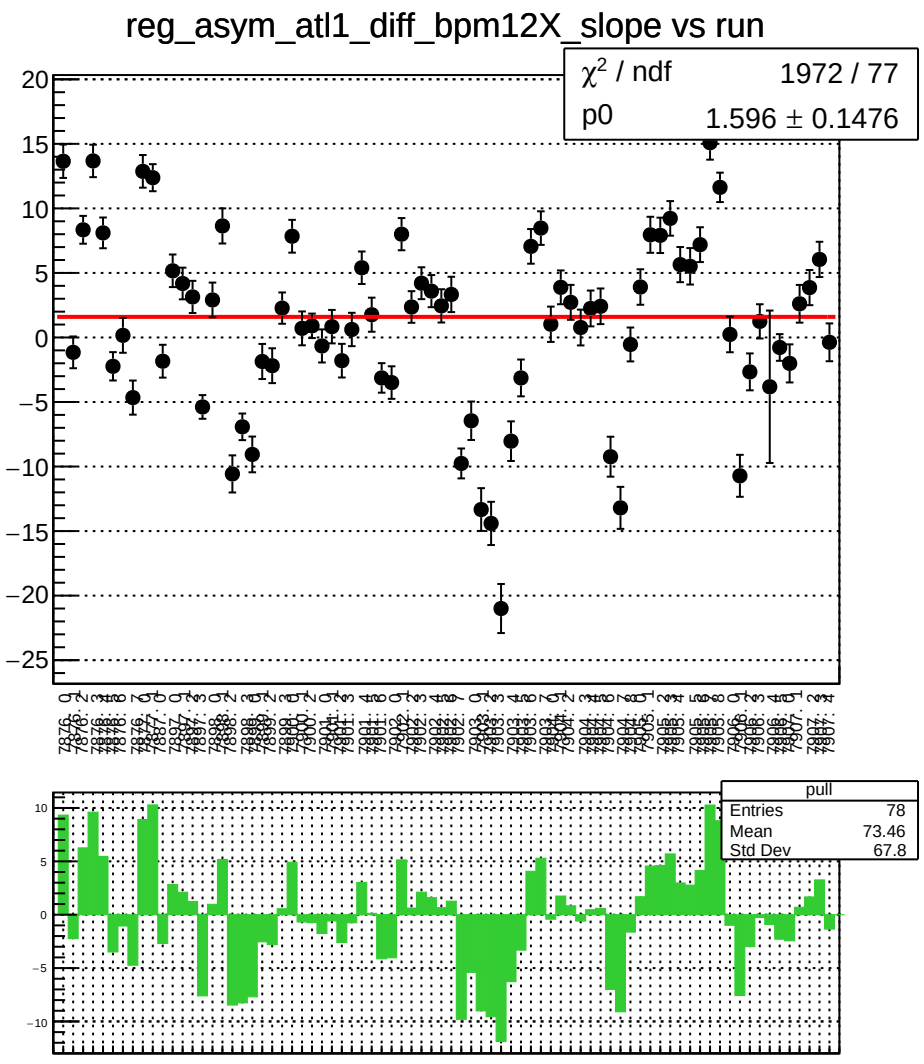

pull1D
Entries 78
Mean 0.1142
Std Dev 1.041

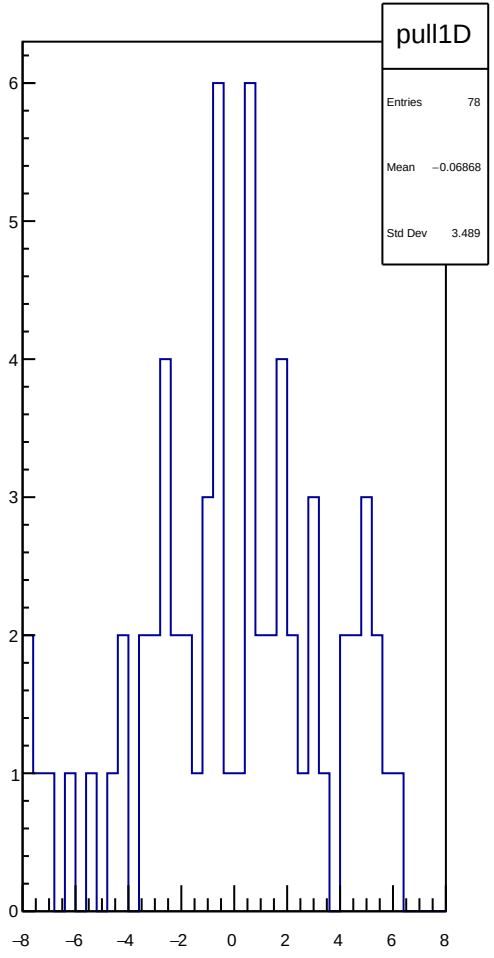

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 263 / 77
p0 25.29 ± 2.547
pull
Entries 78
Mean 61.35
Std Dev 17.76

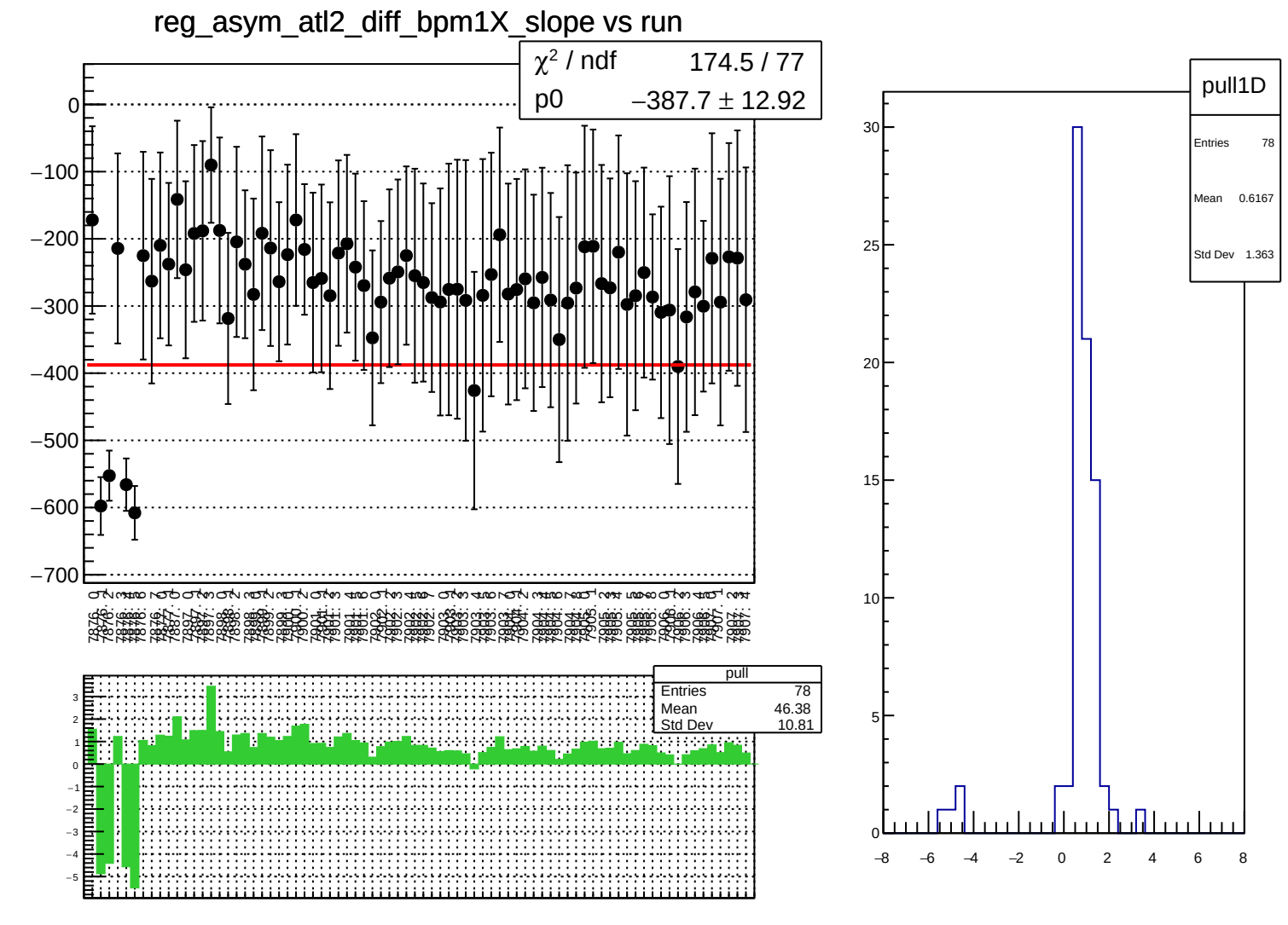

pull1D
Entries 78
Mean 0.6137
Std Dev 1.731

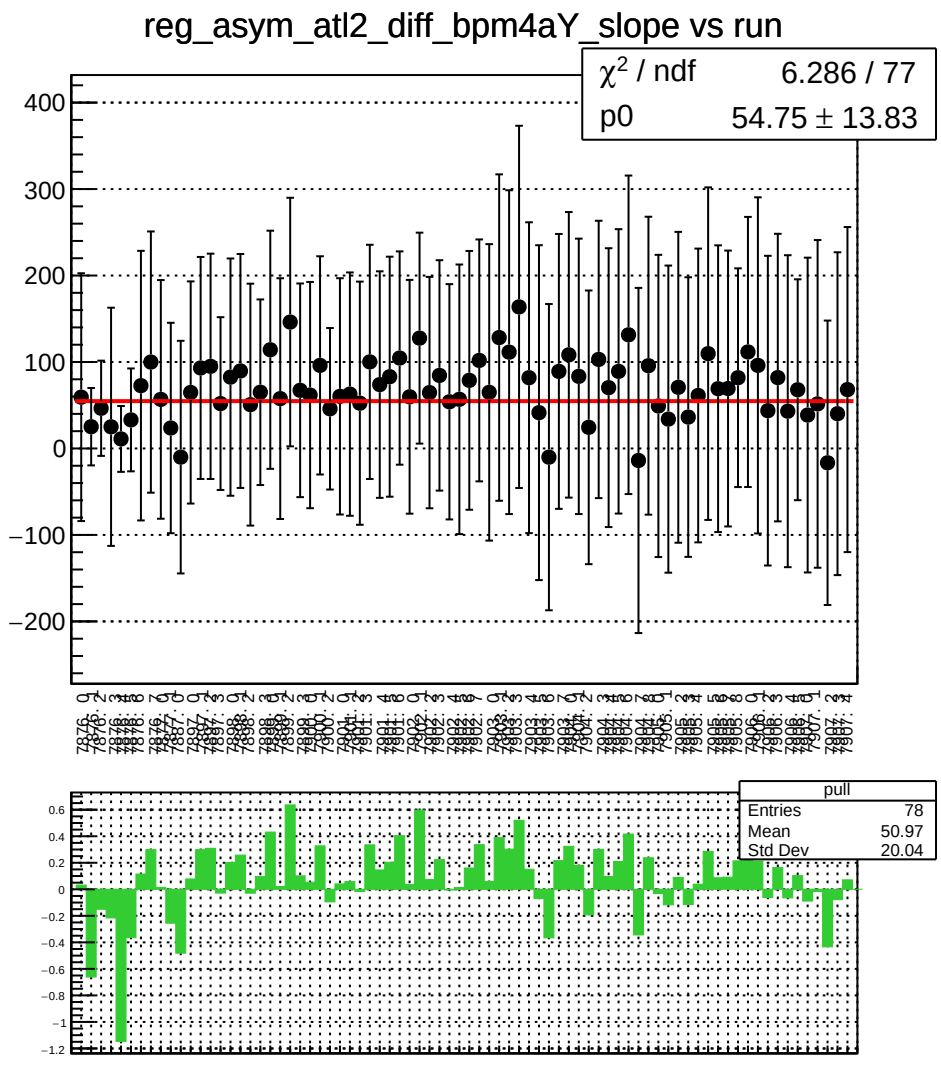

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 70.14 / 77
p0 −7.535 ± 4.286
pull
Entries 78
Mean 570
Std Dev 532.1

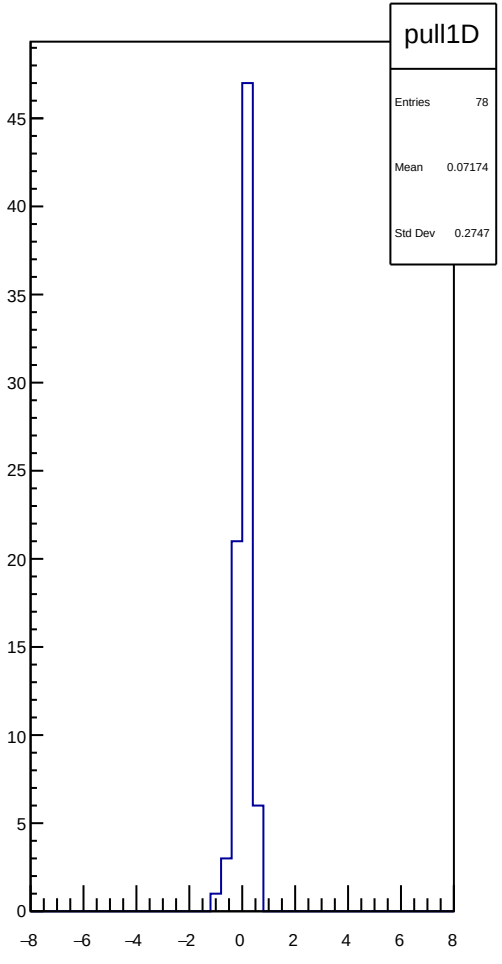

pull1D
Entries 78
Mean −0.009279
Std Dev 0.9482

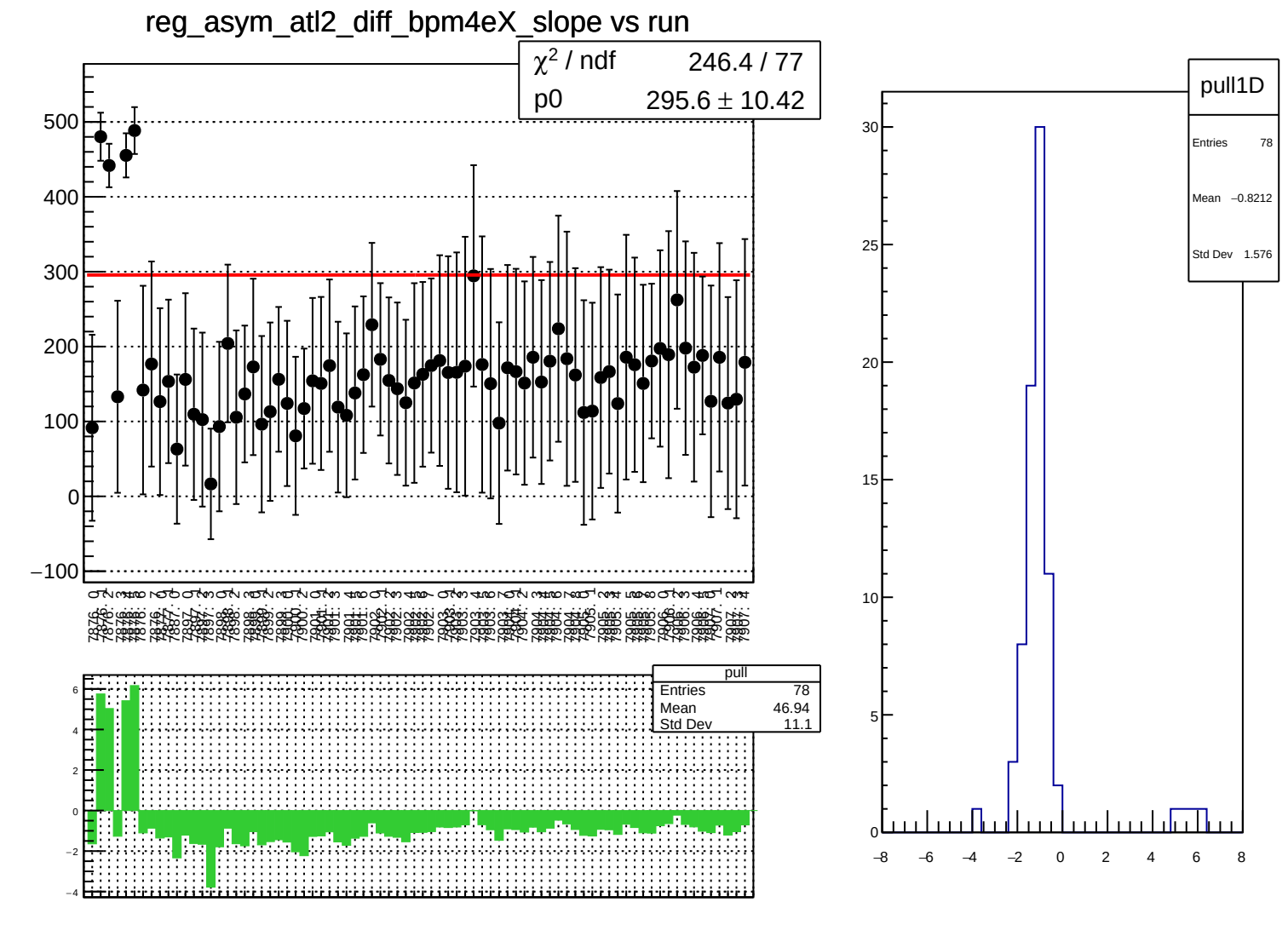

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 1972 / 77
p0 1.596 ± 0.1476
pull
Entries 78
Mean 73.46
Std Dev 67.8

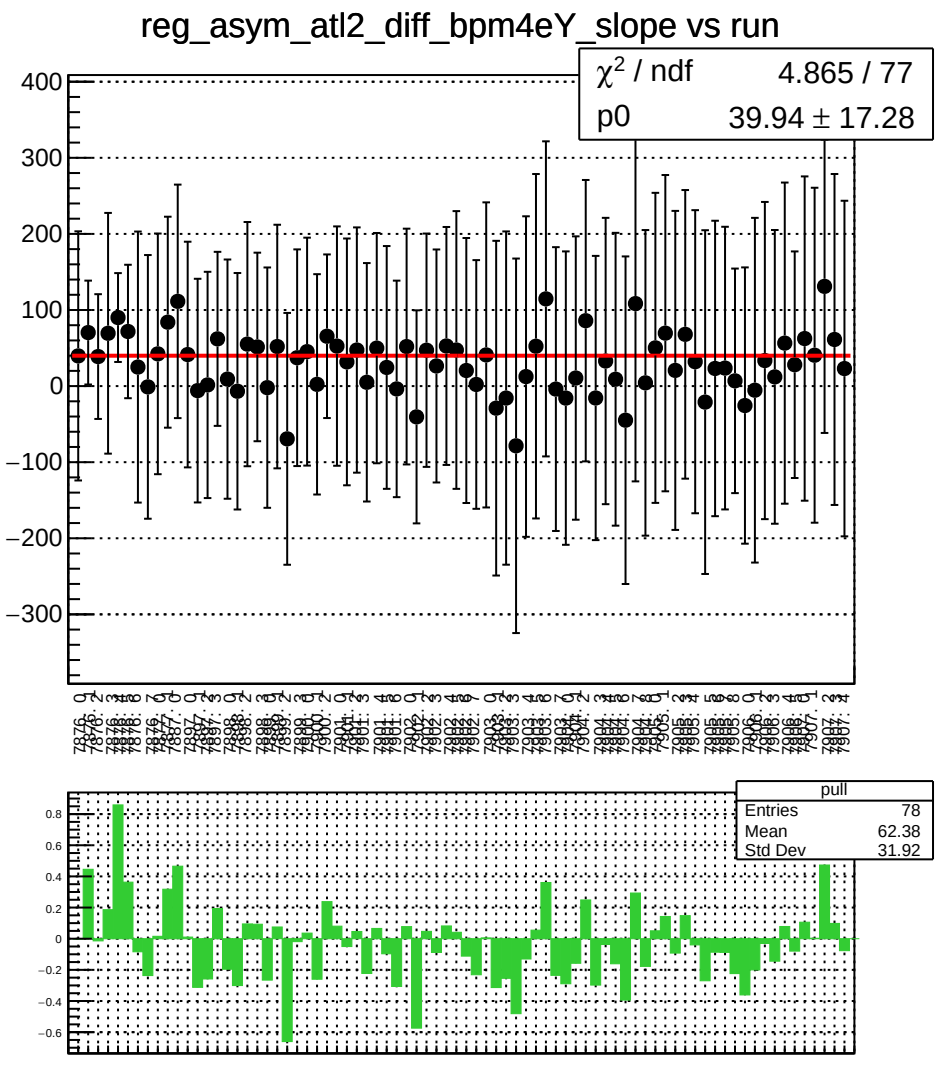

pull1D
Entries 78
Mean −0.06868
Std Dev 3.489

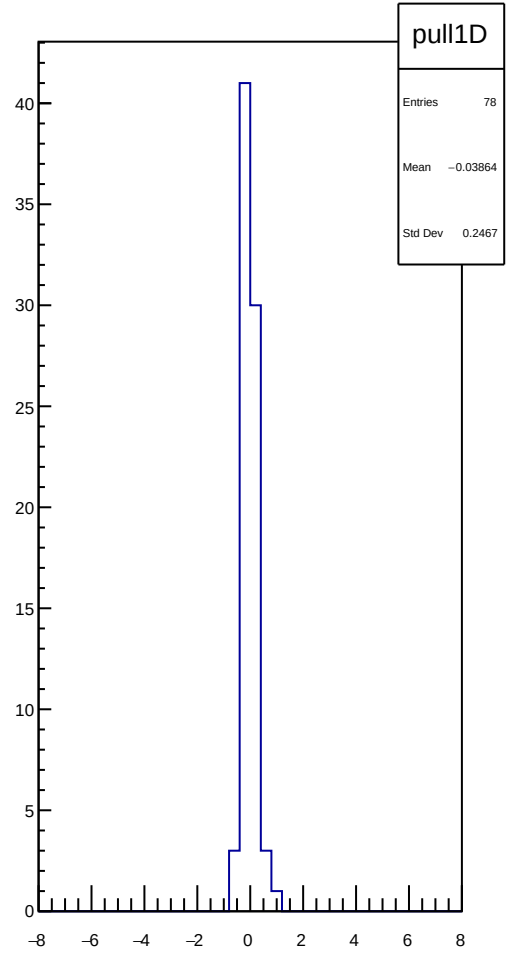

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 174.5 / 77
p0 −387.7 ± 12.92
pull
Entries 78
Mean 46.38
Std Dev 10.81
pull1D
Entries 78
Mean 0.6167
Std Dev 1.363

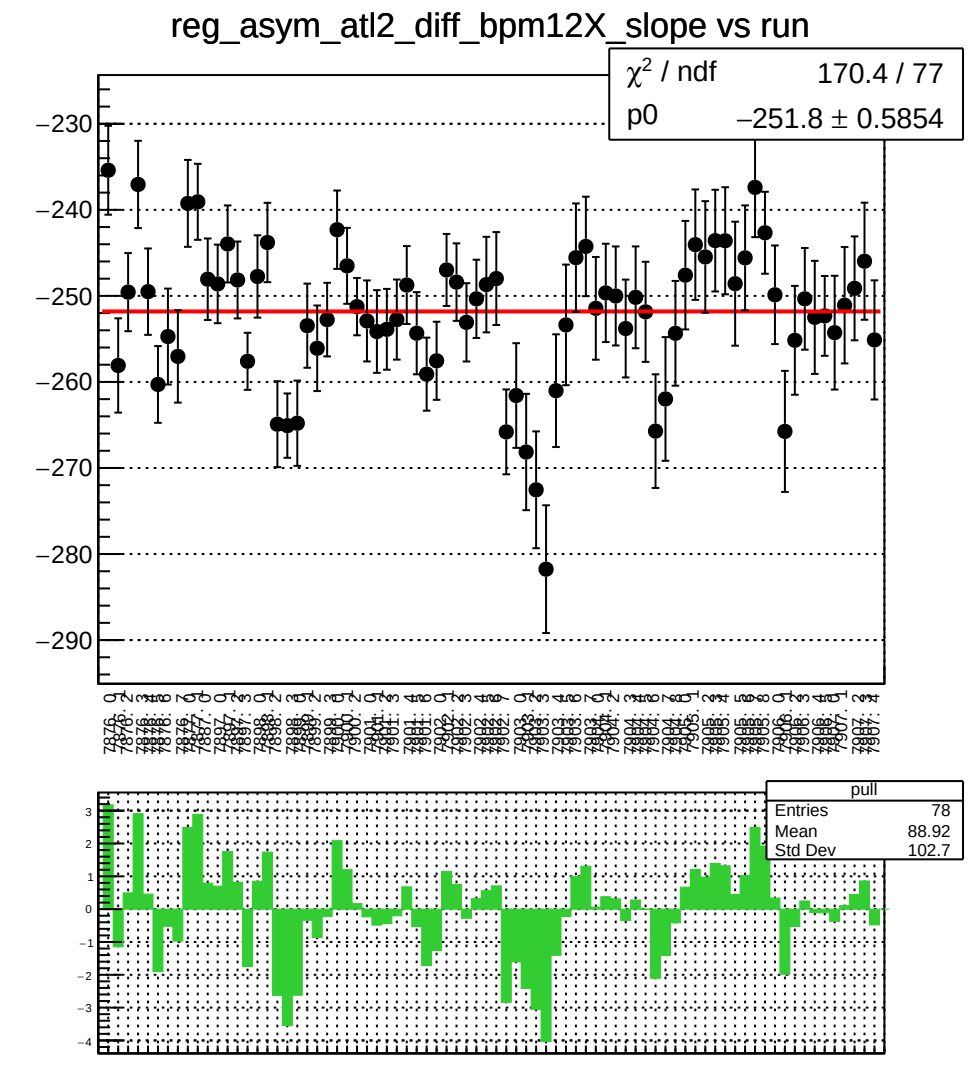

reg_asym_atl2_diff_bpm4aY_slope vs run
χ^2 / ndf 6.286 / 77
p0 54.75 ± 13.83
pull
Entries 78
Mean 50.97
Std Dev 20.04

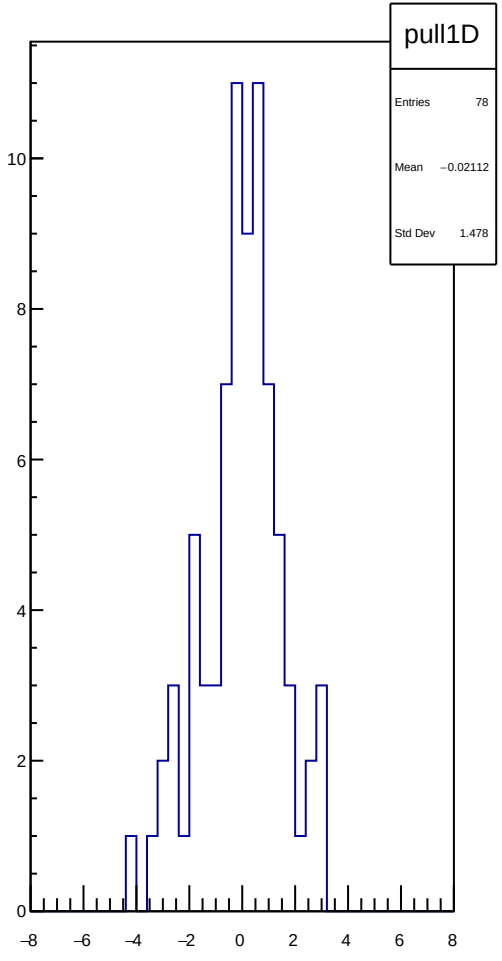

pull1D
Entries 78
Mean 0.07174
Std Dev 0.2747

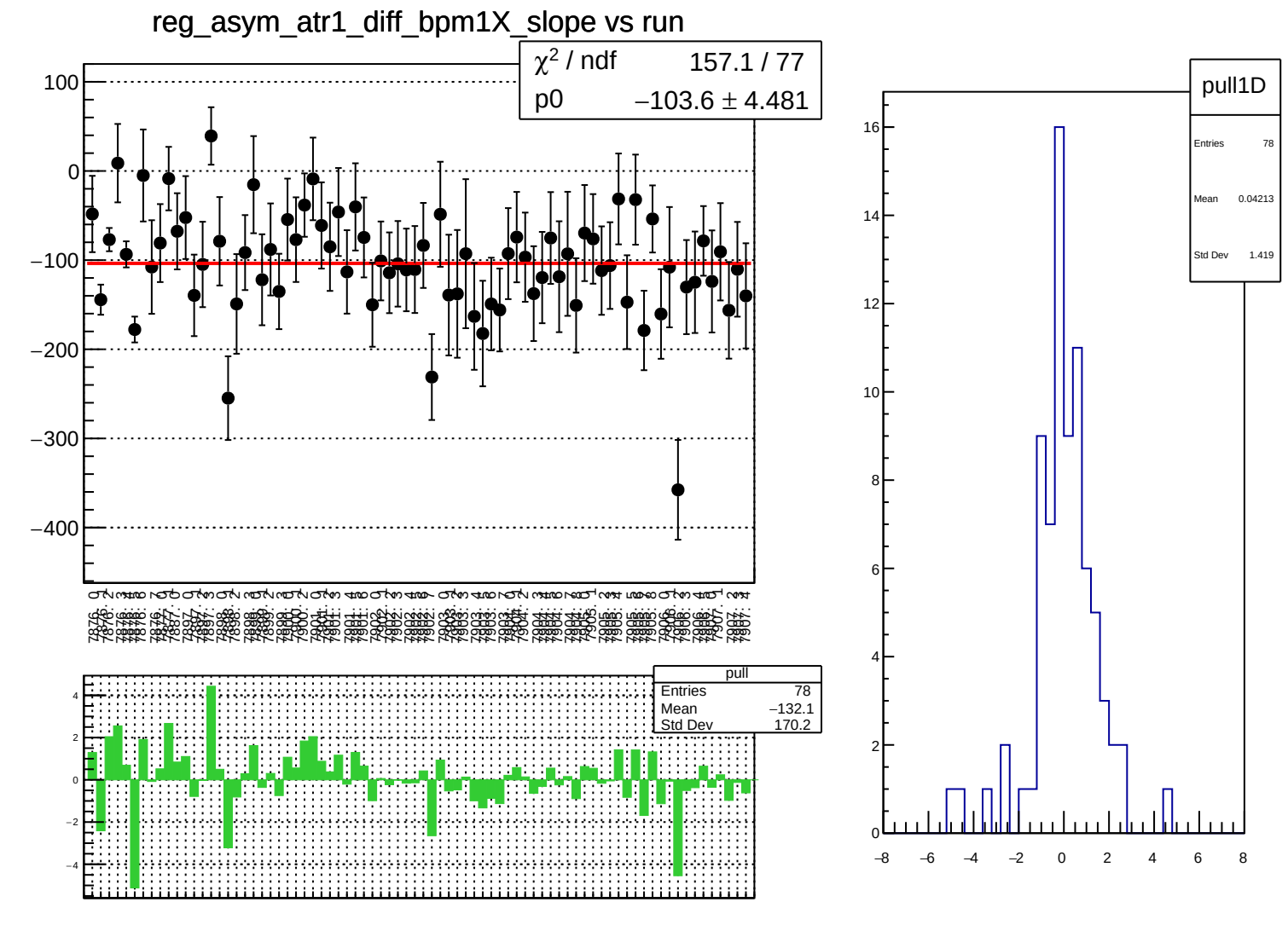

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 246.4 / 77
p0 295.6 ± 10.42
pull
Entries 78
Mean 46.94
Std Dev 11.1
pull1D
Entries 78
Mean −0.8212
Std Dev 1.576

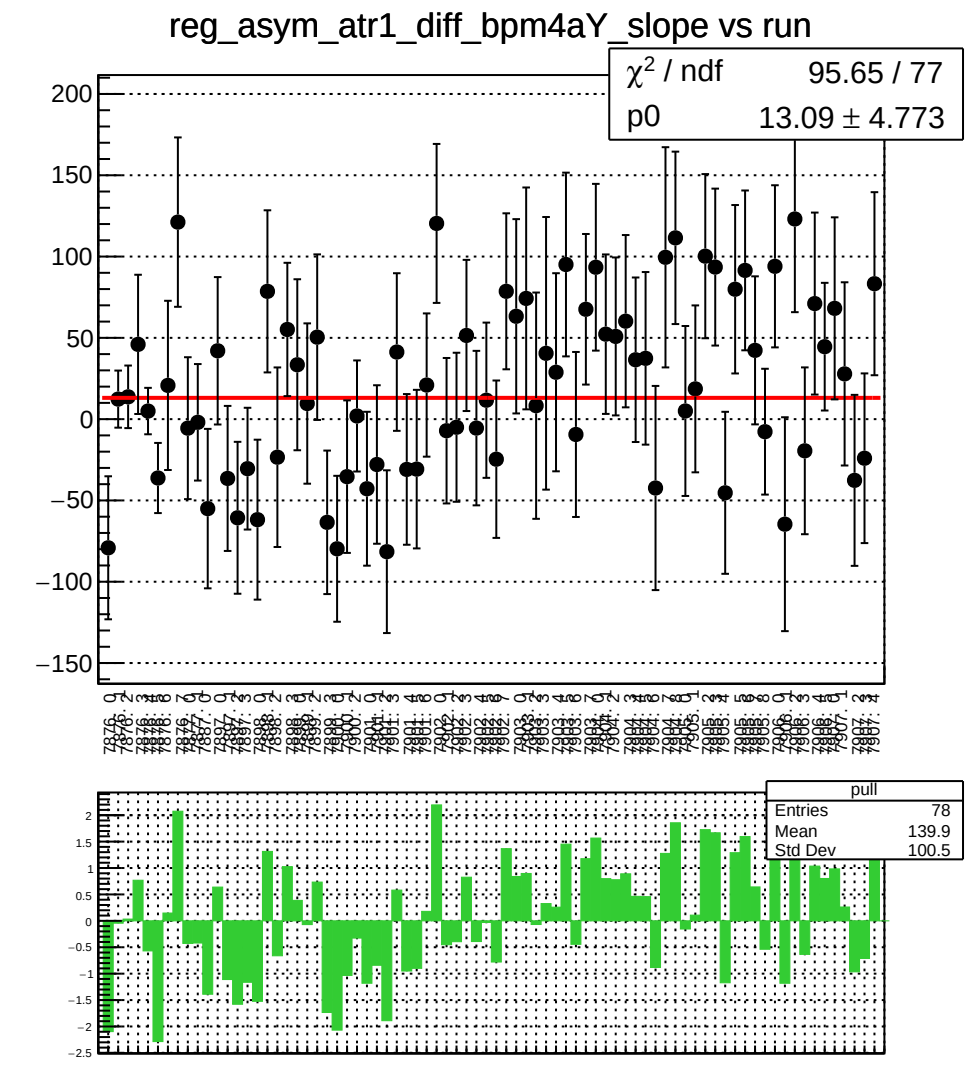

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 4.865 / 77
p0 39.94 ± 17.28
pull
Entries 78
Mean 62.38
Std Dev 31.92

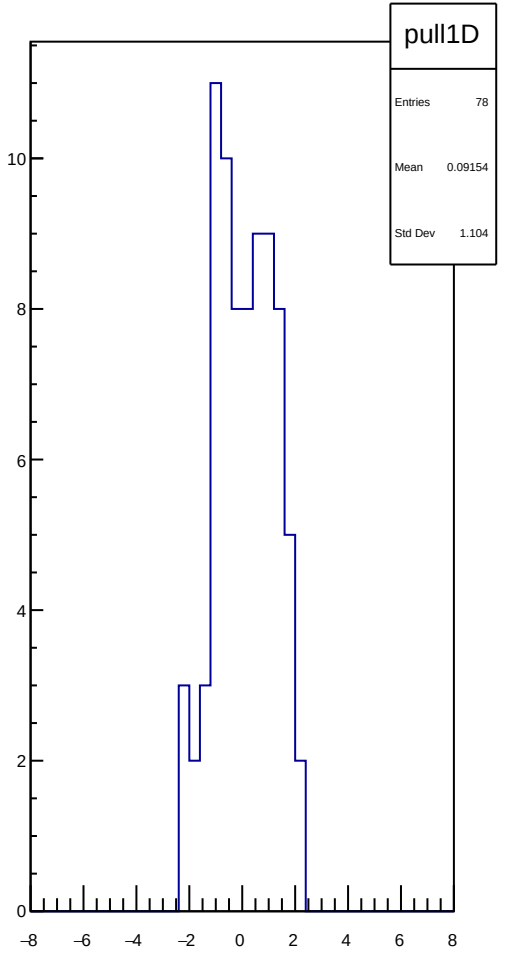

pull1D
Entries 78
Mean −0.03864
Std Dev 0.2467

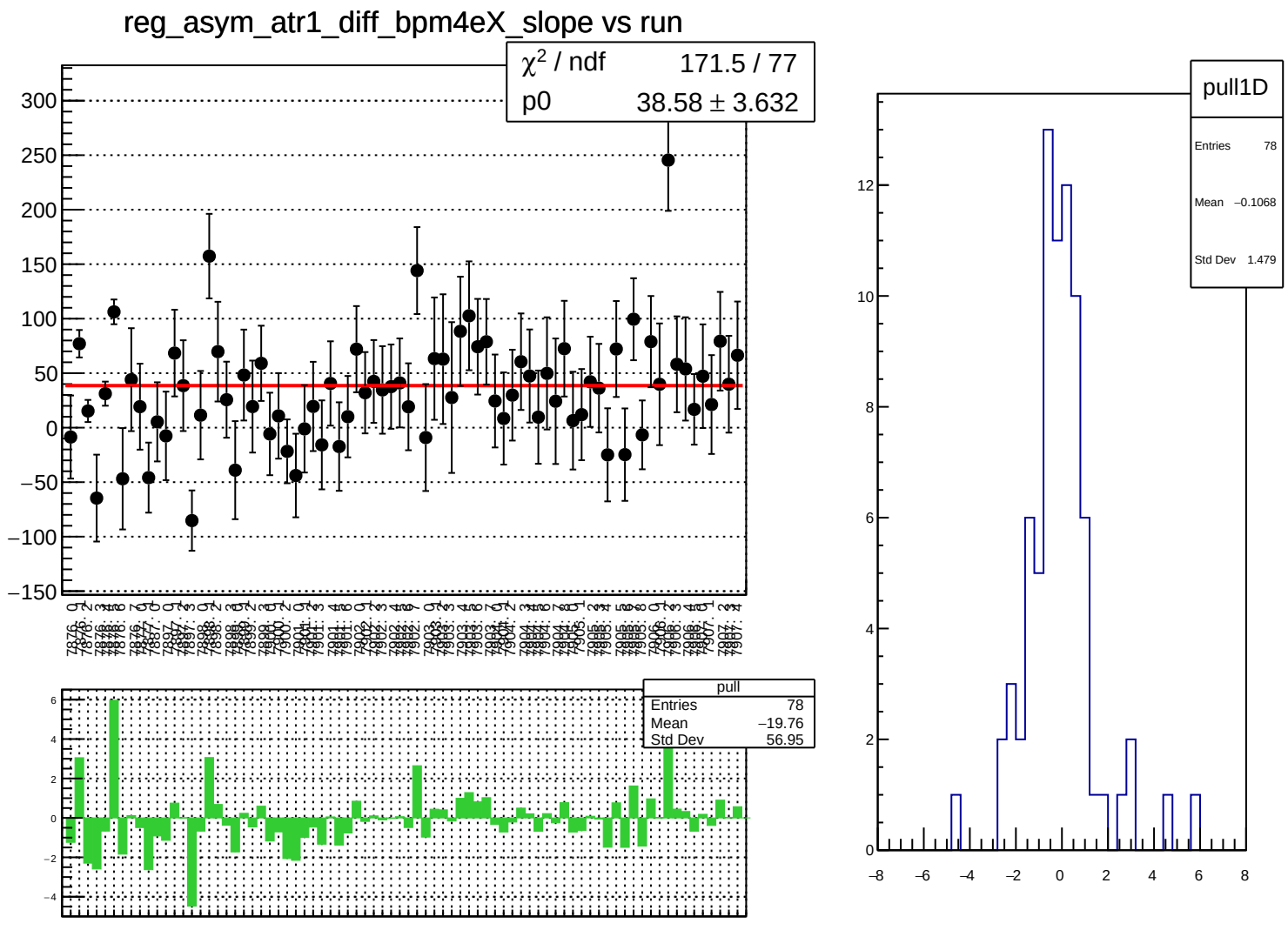

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 170.4 / 77
p0 −251.8 ± 0.5854
pull
Entries 78
Mean 88.92
Std Dev 102.7

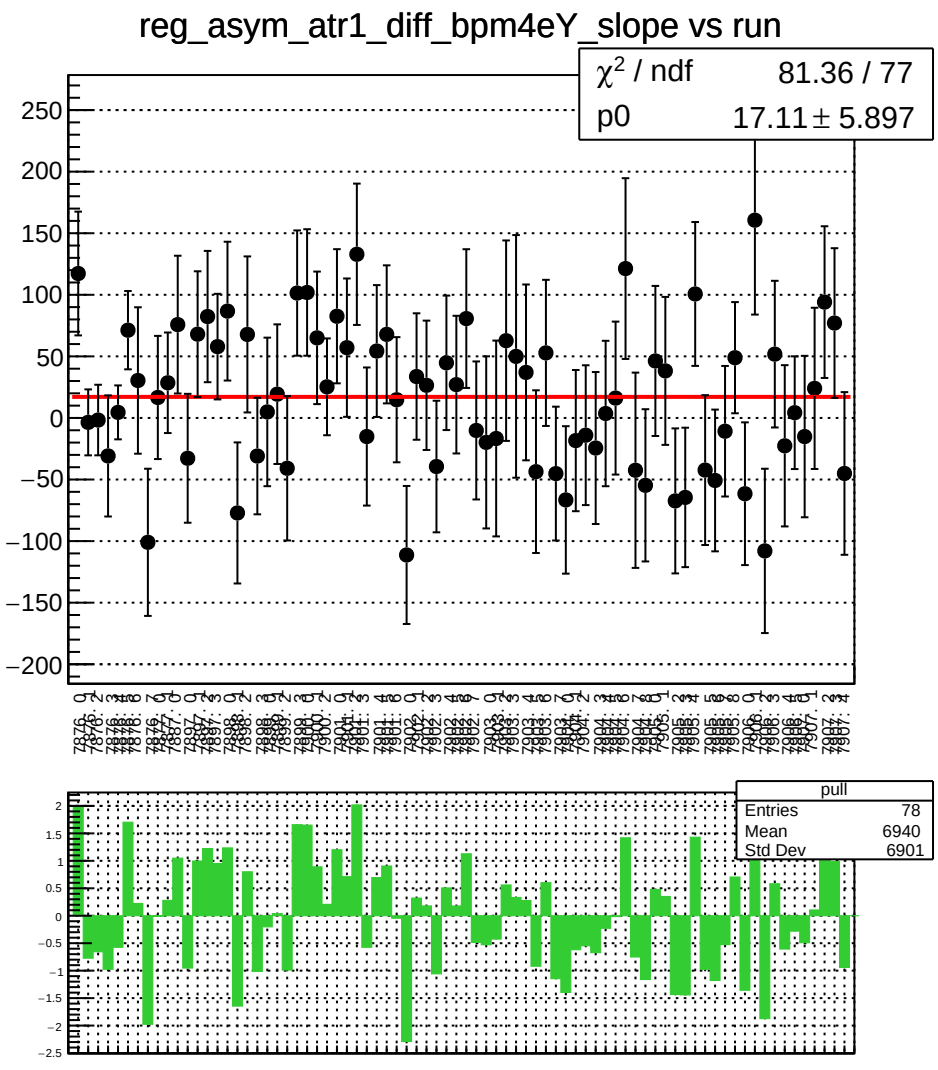

pull1D
Entries 78
Mean −0.02112
Std Dev 1.478

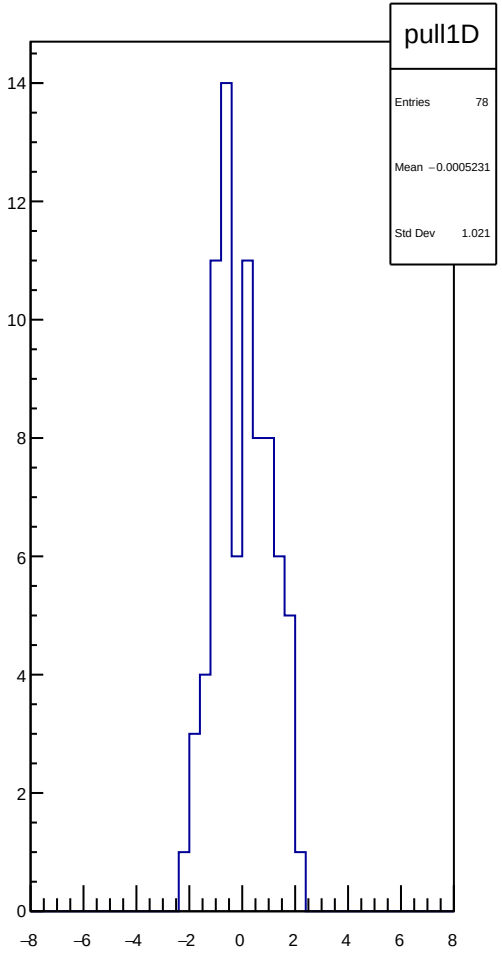

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 157.1 / 77
p0 −103.6 ± 4.481
pull
Entries 78
Mean −132.1
Std Dev 170.2
pull1D
Entries 78
Mean 0.04213
Std Dev 1.419

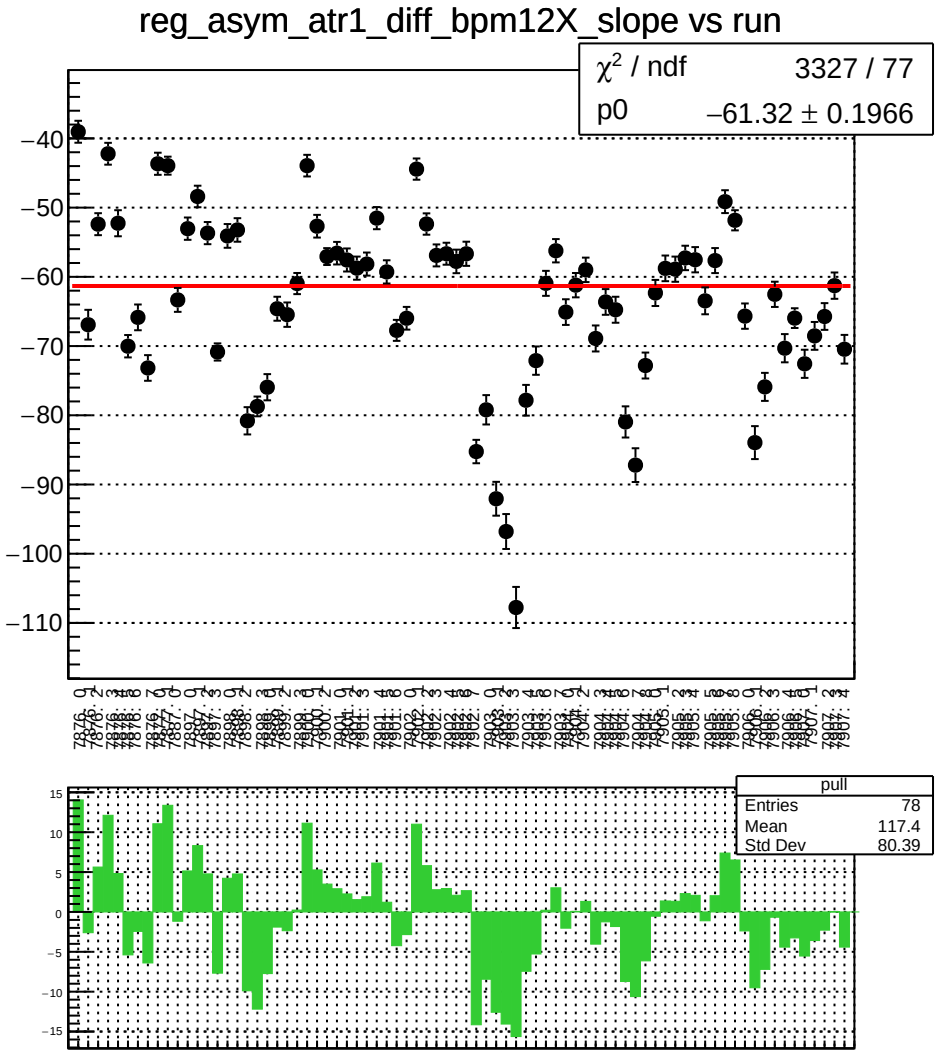

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 95.65 / 77
p0 13.09 ± 4.773
pull
Entries 78
Mean 139.9
Std Dev 100.5

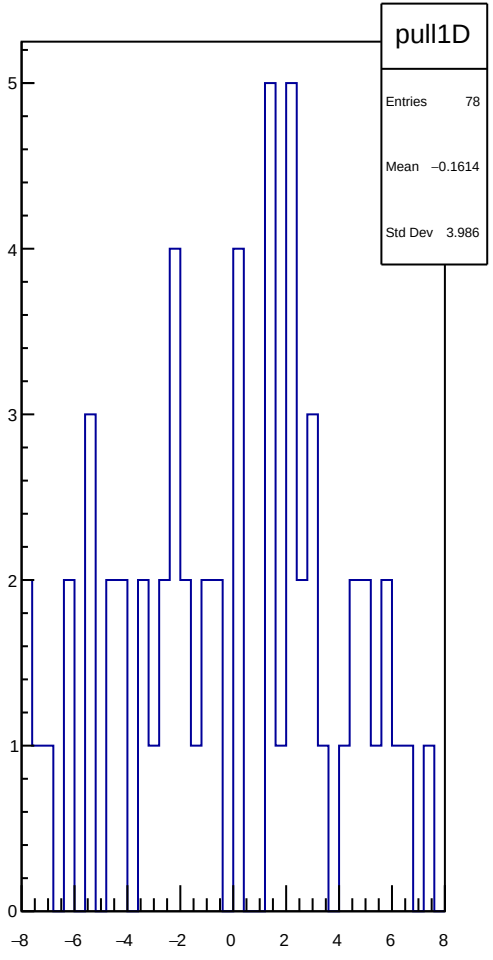

pull1D
Entries 78
Mean 0.09154
Std Dev 1.104

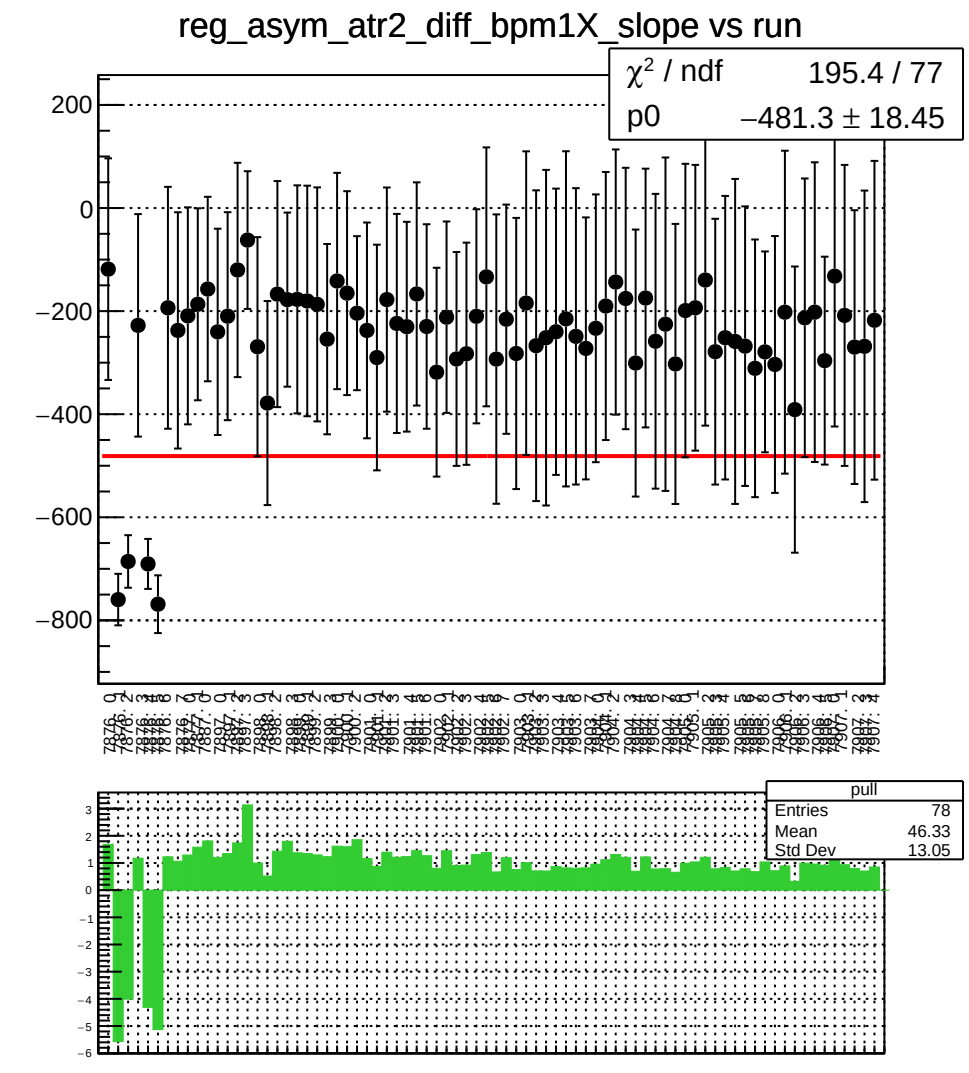

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 171.5 / 77
p0 38.58 ± 3.632
pull
Entries 78
Mean −19.76
Std Dev 56.95
pull1D
Entries 78
Mean −0.1068
Std Dev 1.479

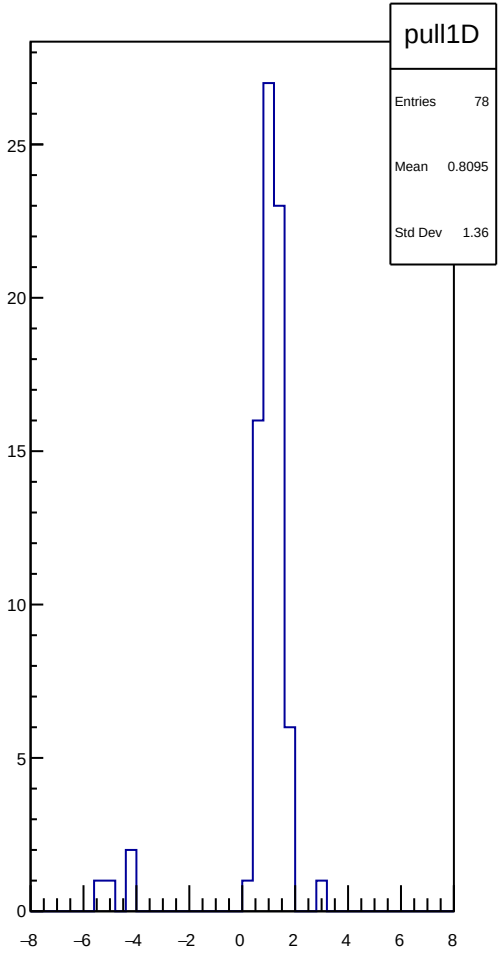

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 81.36 / 77
p0 17.11 ± 5.897
pull
Entries 78
Mean 6940
Std Dev 6901

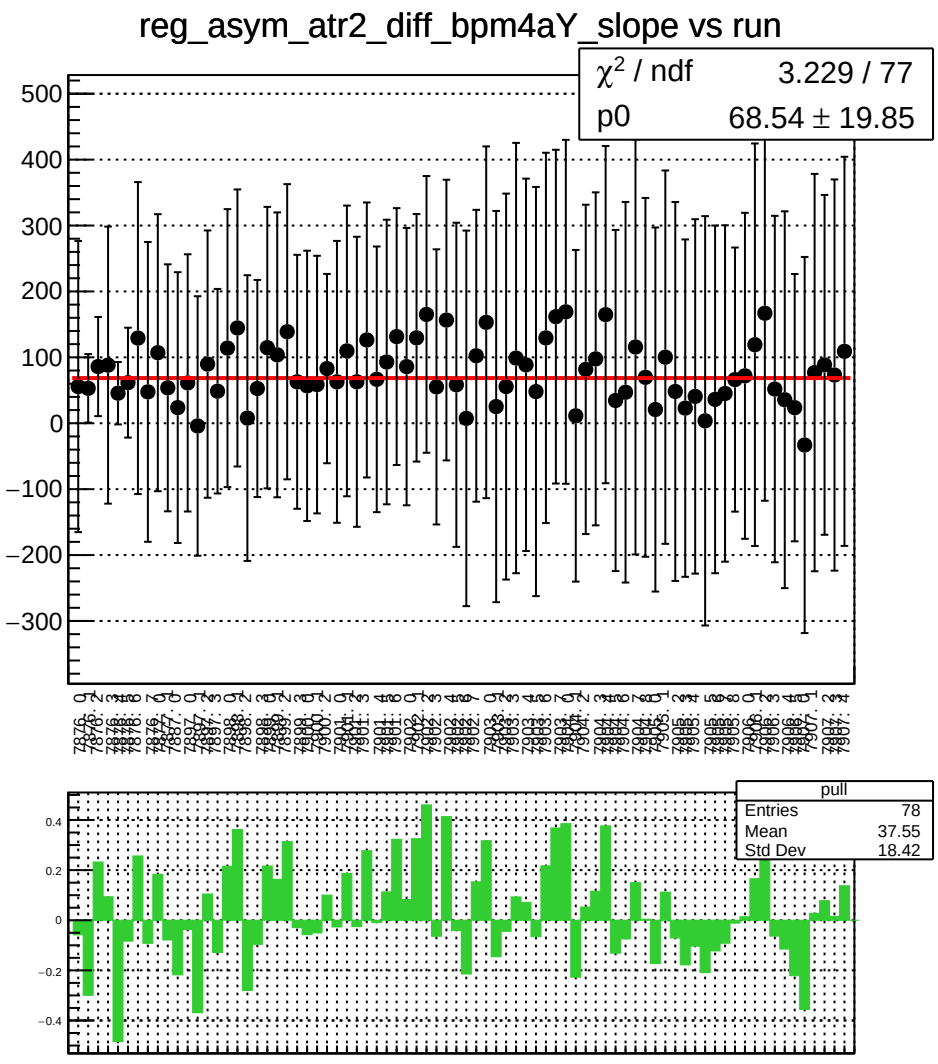

pull1D
Entries 78
Mean −0.0005231
Std Dev 1.021

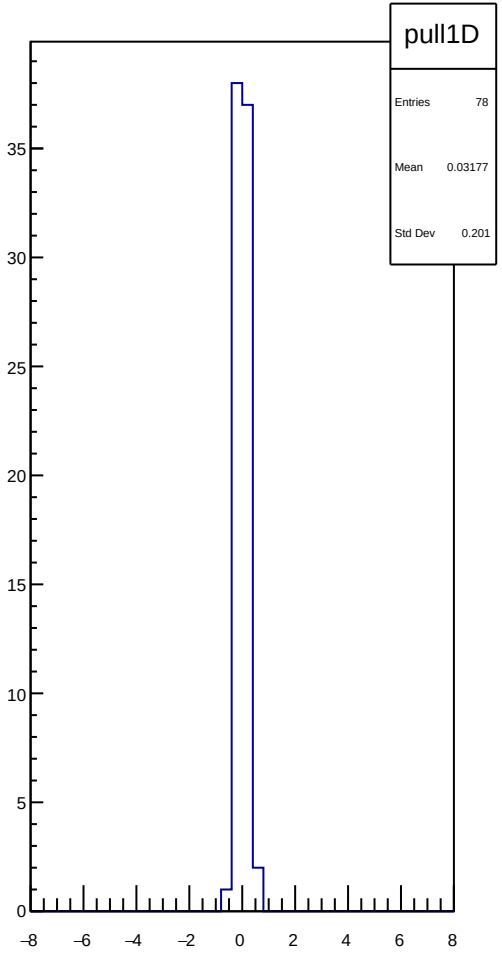

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 3327 / 77
p0 −61.32 ± 0.1966
pull
Entries 78
Mean 117.4
Std Dev 80.39

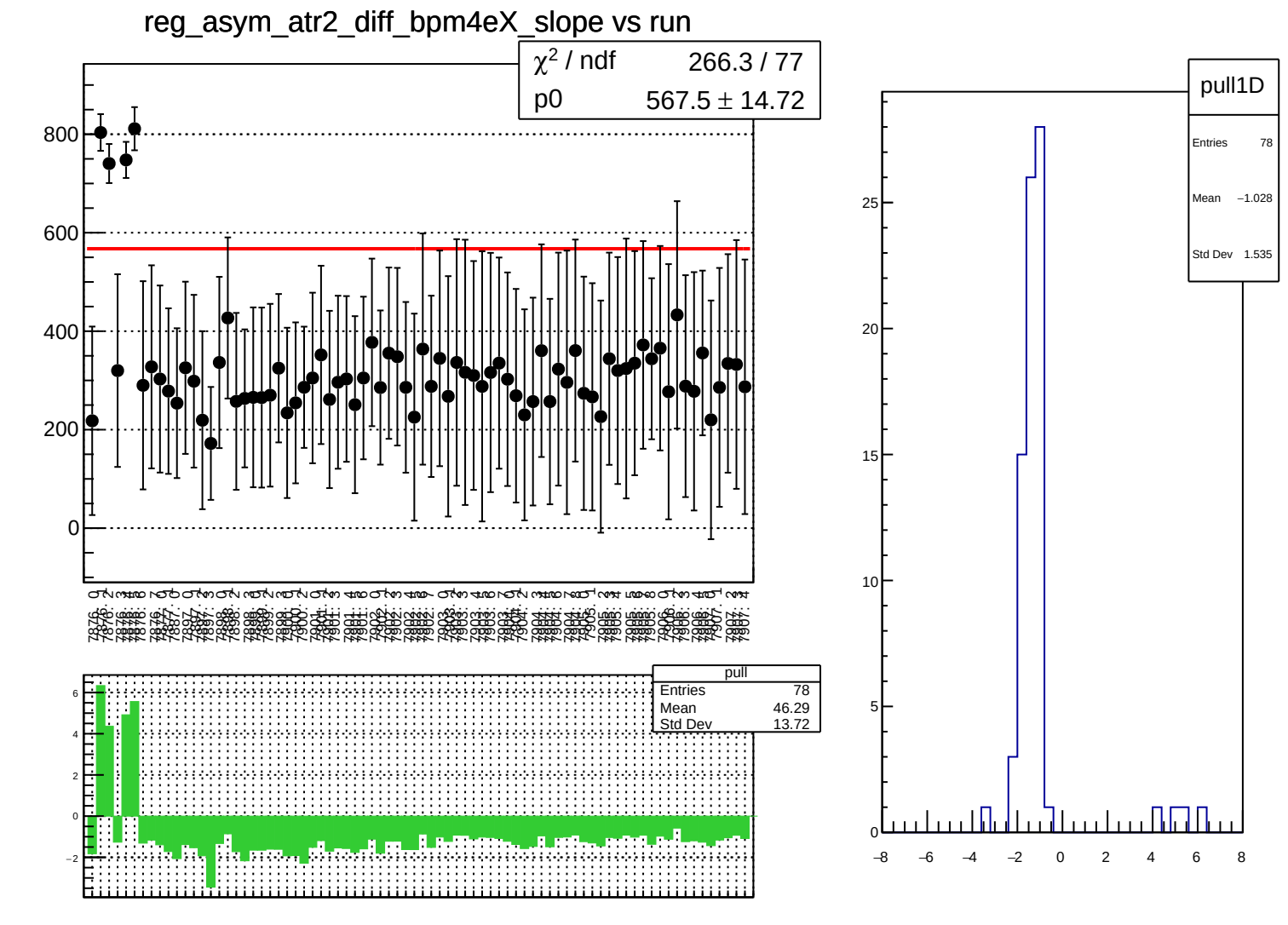

pull1D
Entries 78
Mean −0.1614
Std Dev 3.986

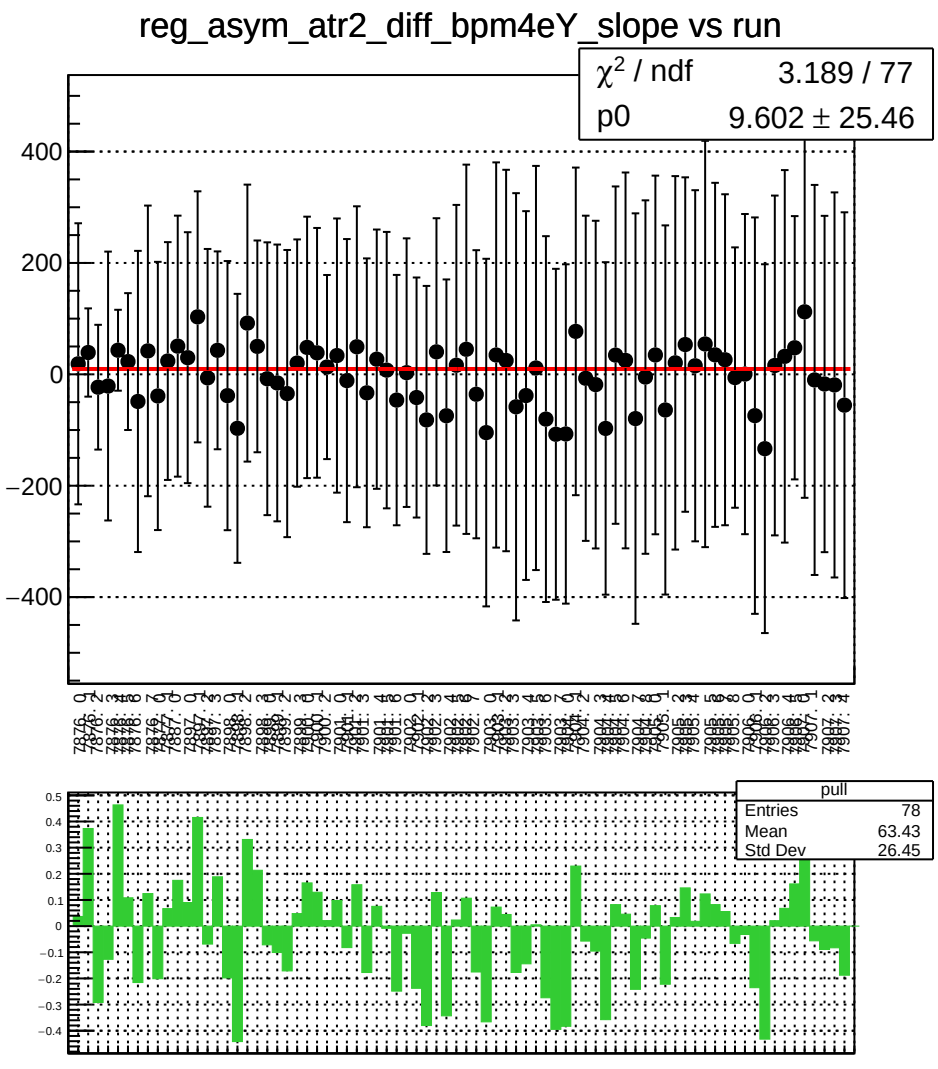

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 195.4 / 77
p0 −481.3 ± 18.45
pull
Entries 78
Mean 46.33
Std Dev 13.05

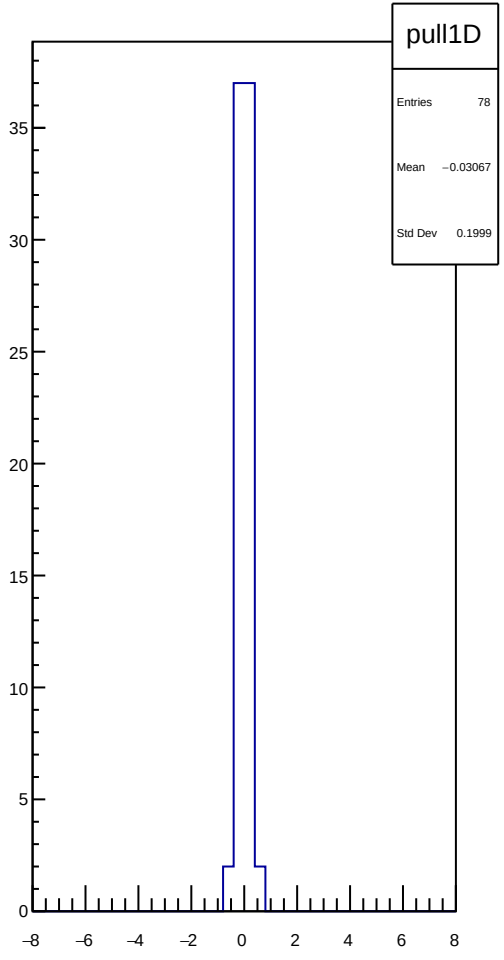

pull1D
Entries 78
Mean 0.8095
Std Dev 1.36

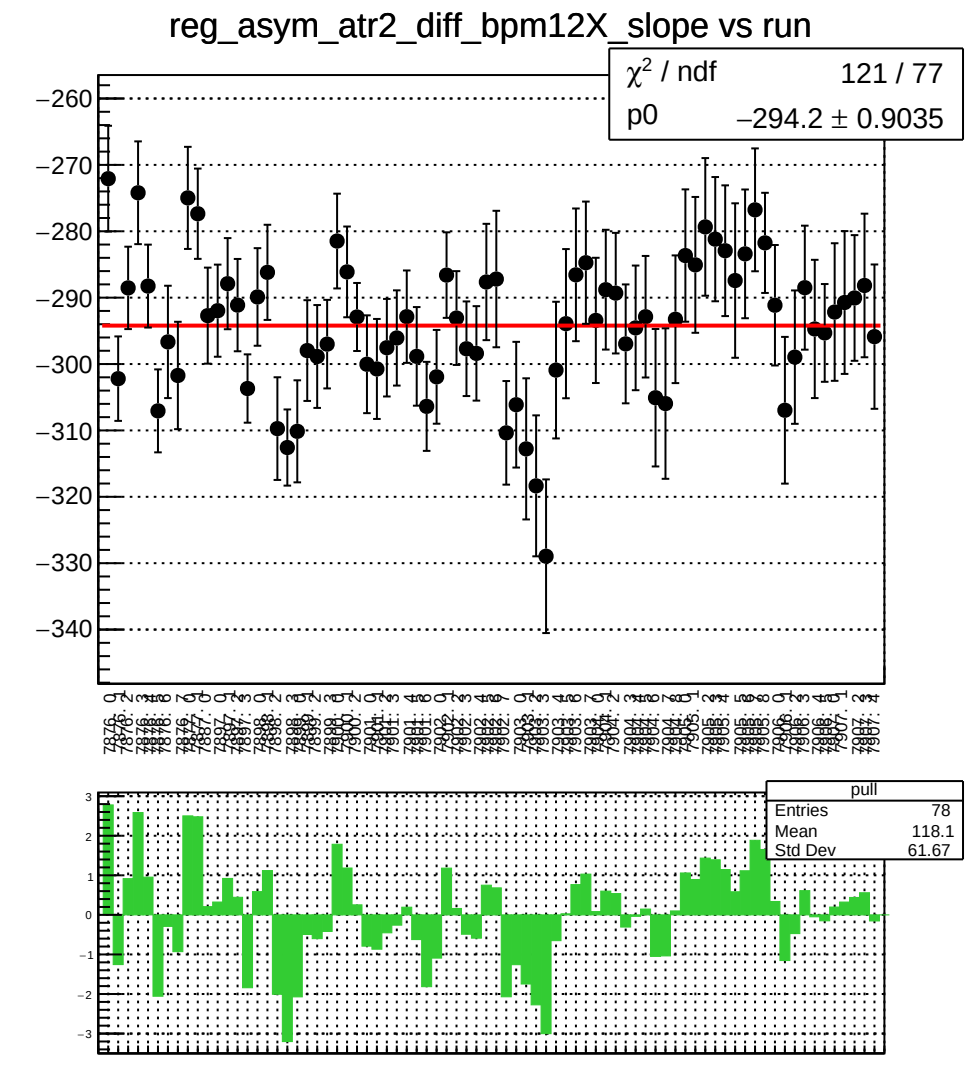

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.229 / 77
p0 68.54 ± 19.85
pull
Entries 78
Mean 37.55
Std Dev 18.42

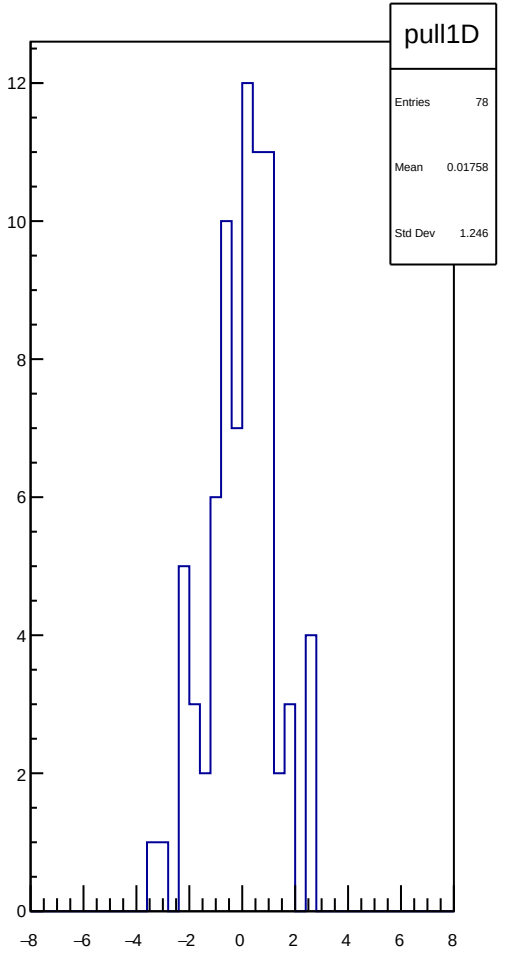

pull1D
Entries 78
Mean 0.03177
Std Dev 0.201

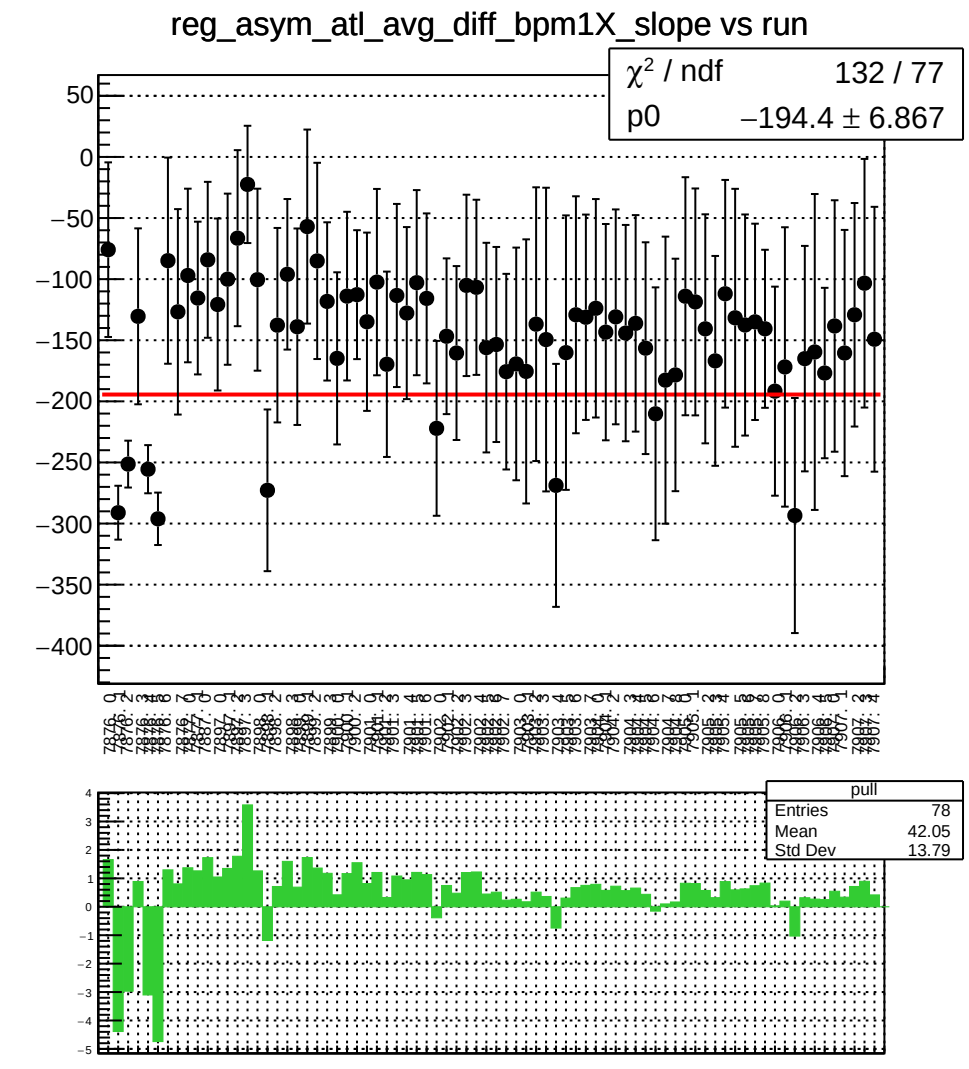

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 266.3 / 77
p0 567.5 ± 14.72
800
600
400
200
0
pull
Entries 78
Mean 46.29
Std Dev 13.72
6
4
2
0
−2
pull1D
Entries 78
Mean −1.028
Std Dev 1.535
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

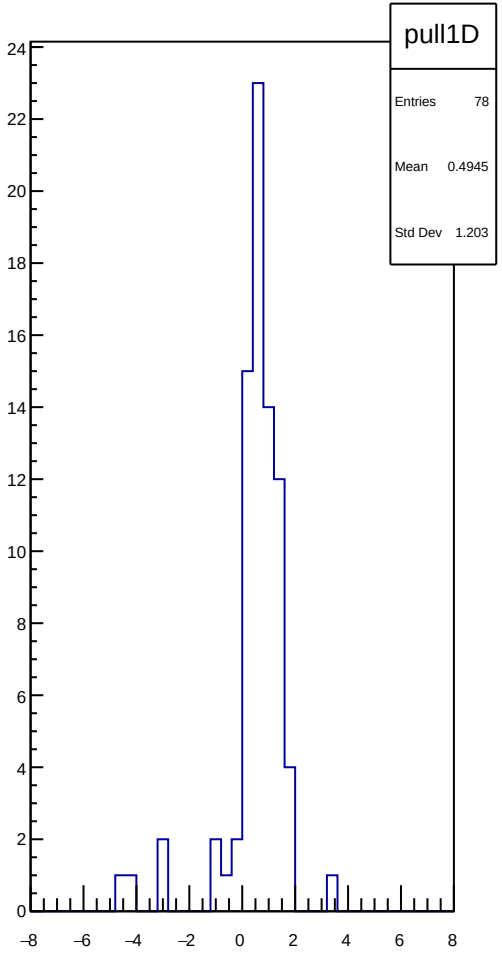

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.189 / 77
p0 9.602 ± 25.46
400
200
0
−200
−400
pull
Entries 78
Mean 63.43
Std Dev 26.45
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

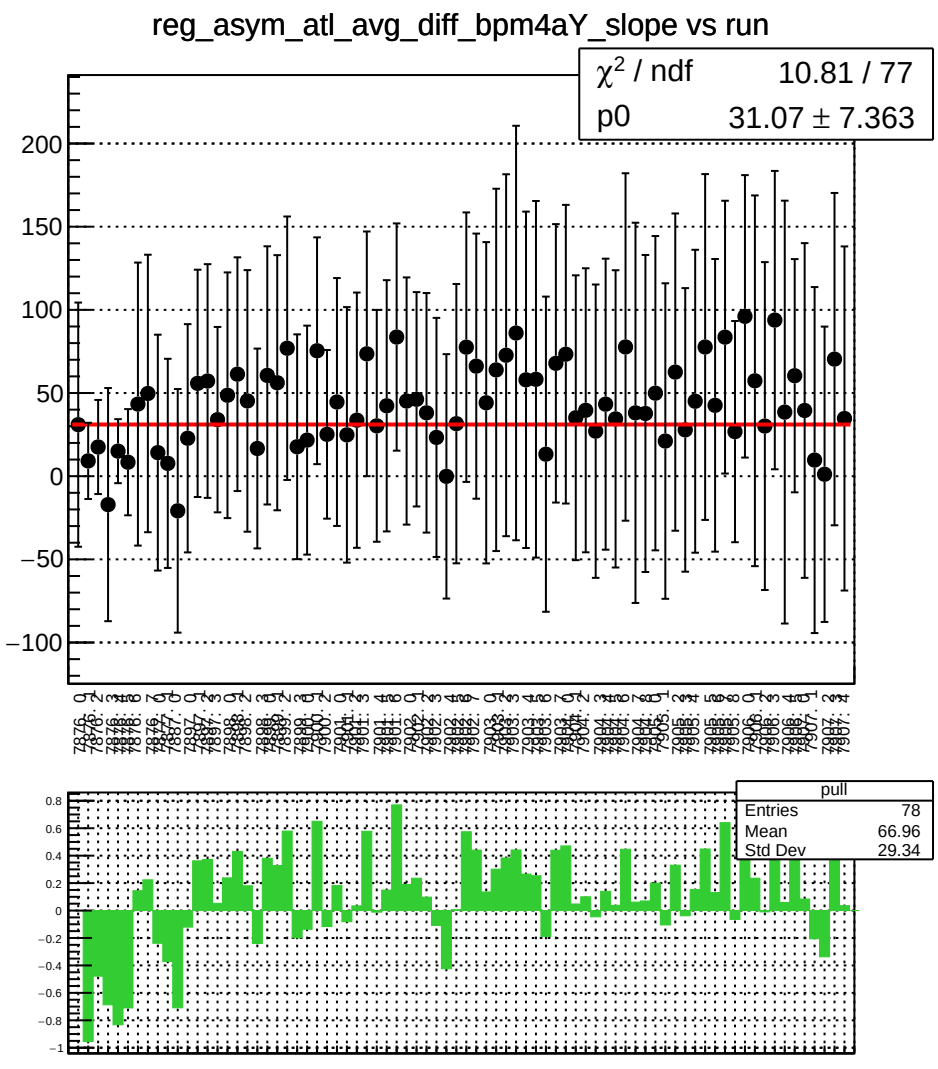

pull1D
Entries 78
Mean −0.03067
Std Dev 0.1999
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

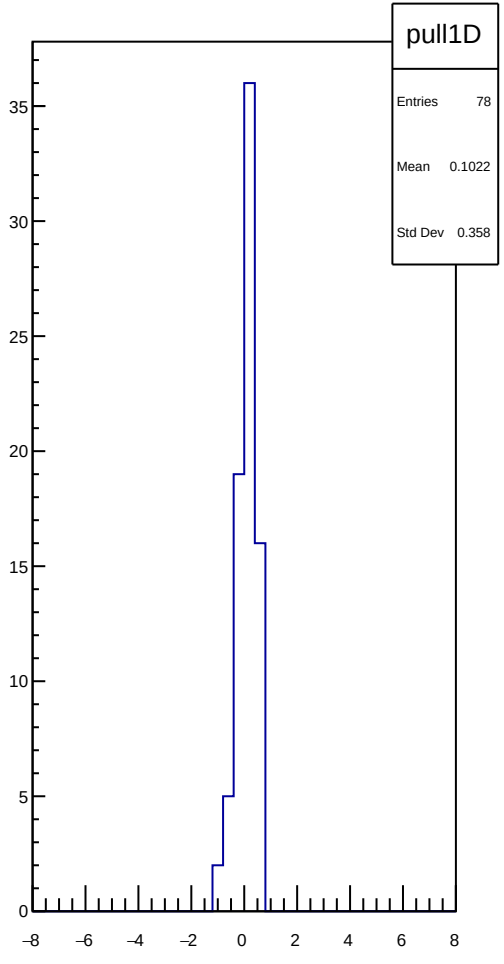

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 121 / 77
p0 −294.2 ± 0.9035
pull
Entries 78
Mean 118.1
Std Dev 61.67

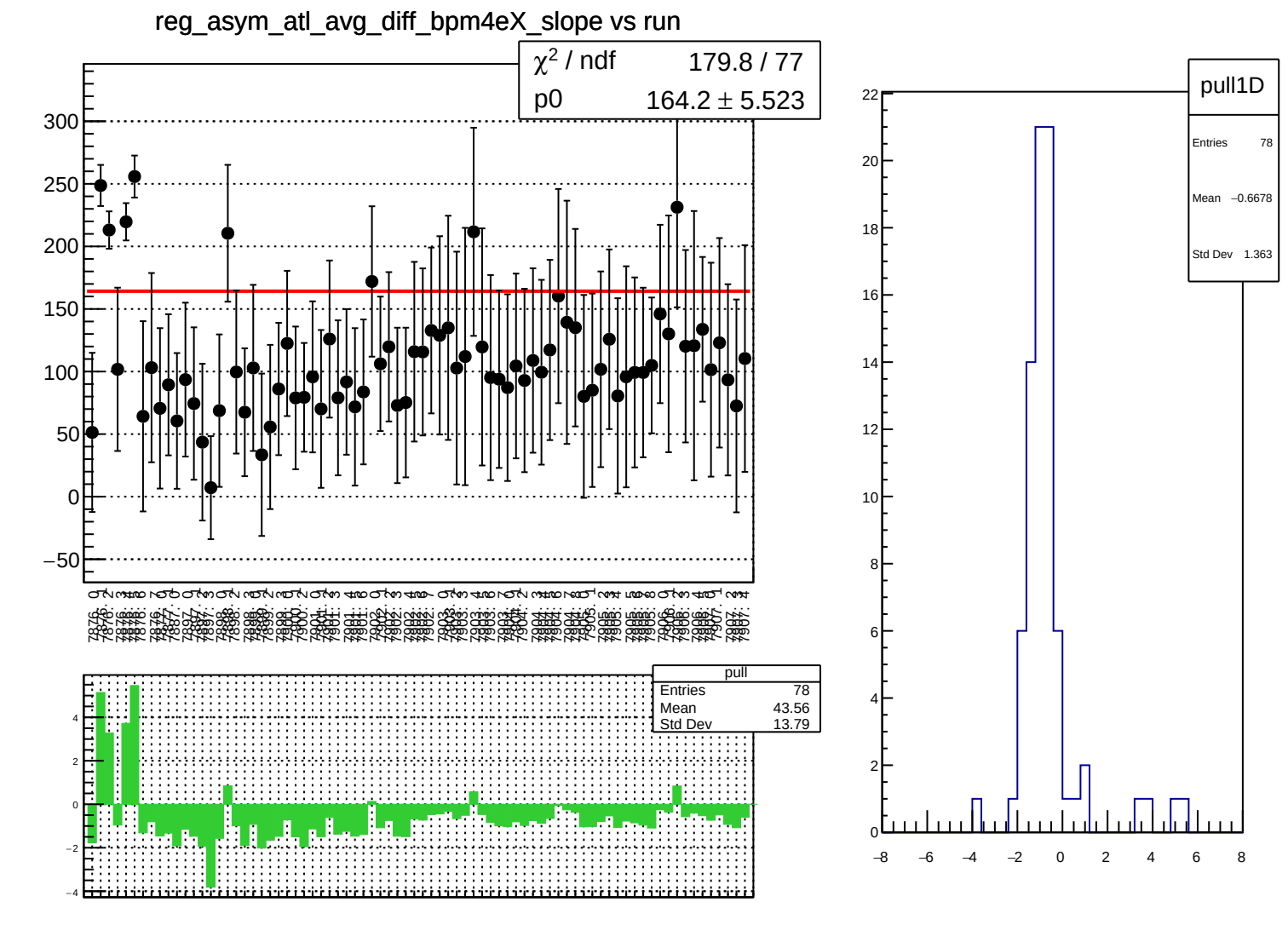

pull1D
Entries 78
Mean 0.01758
Std Dev 1.246

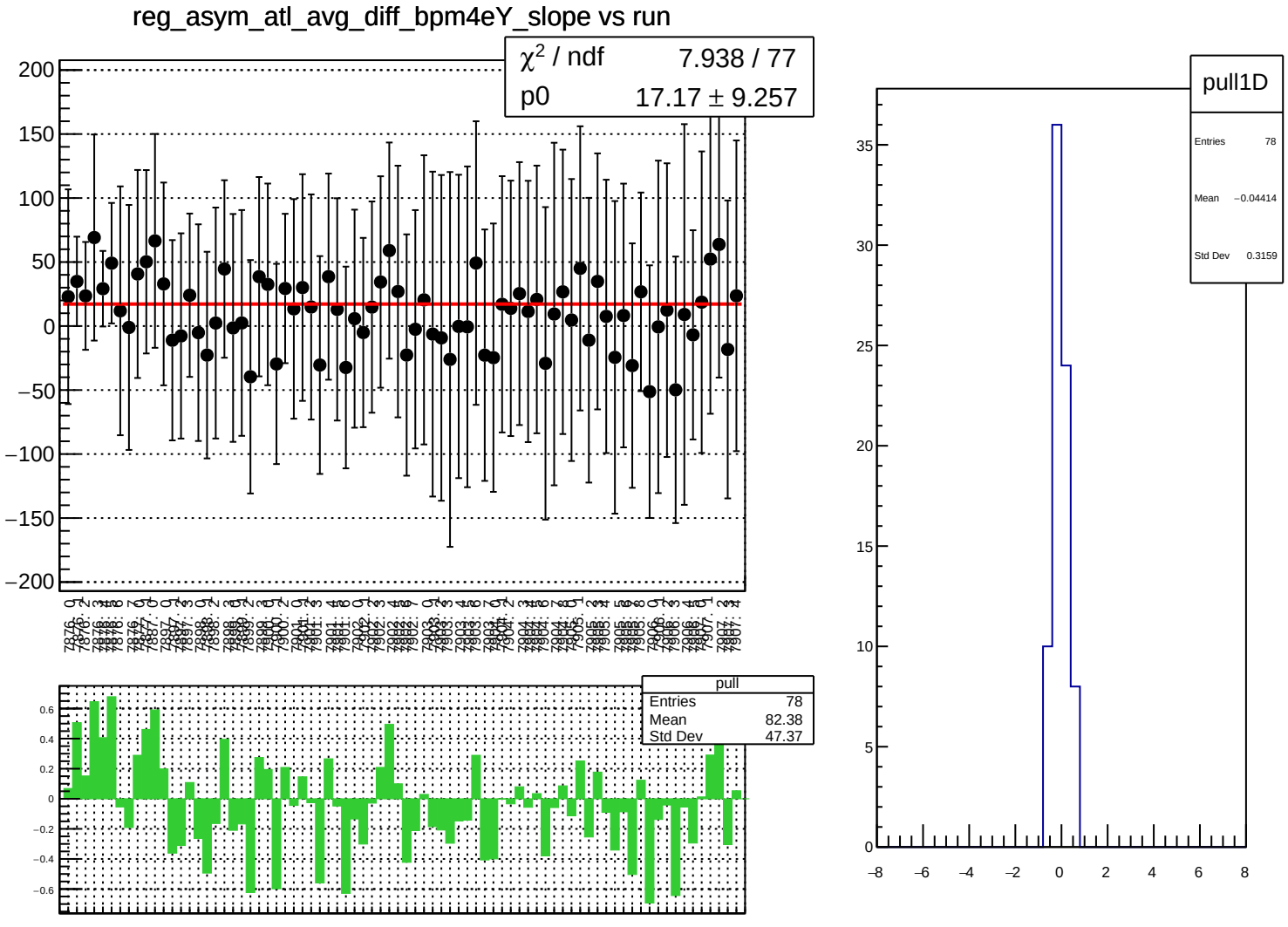

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 132 / 77
p0 −194.4 ± 6.867
pull
Entries 78
Mean 42.05
Std Dev 13.79

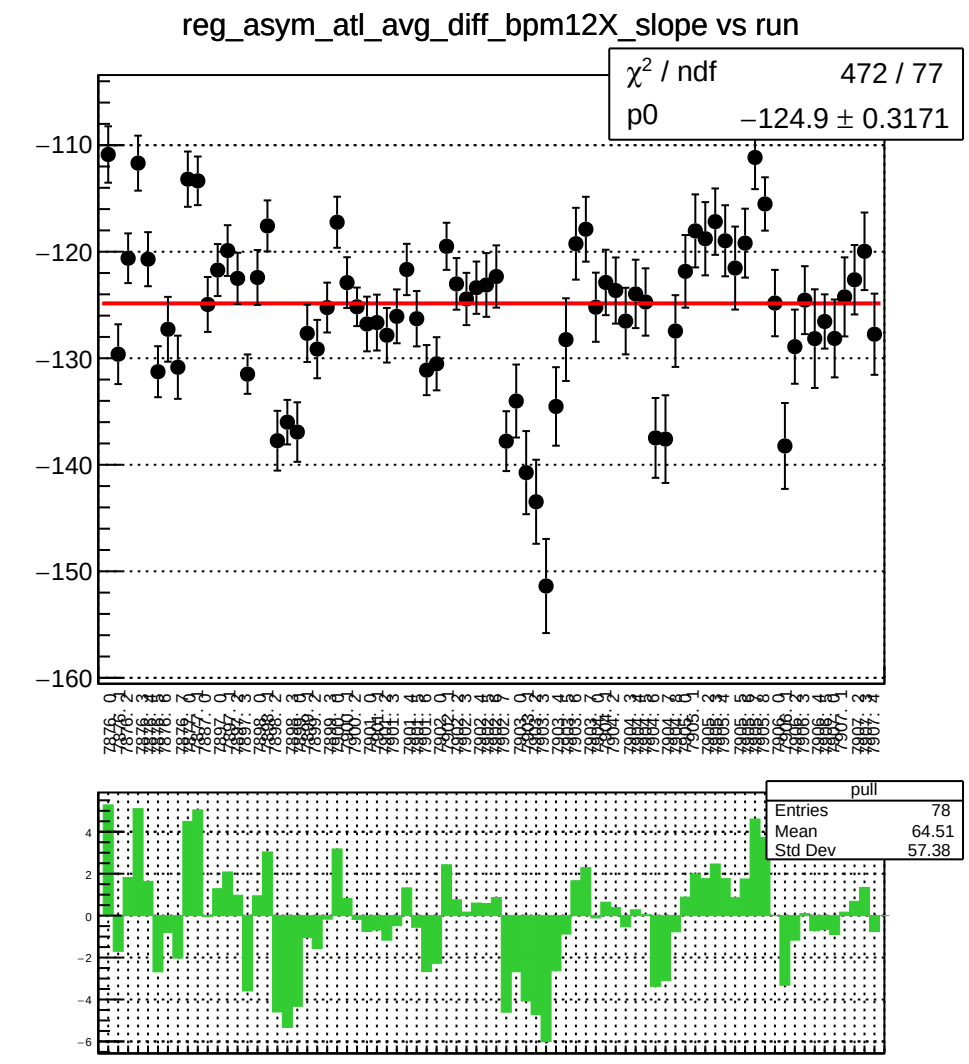

pull1D
Entries 78
Mean 0.4945
Std Dev 1.203

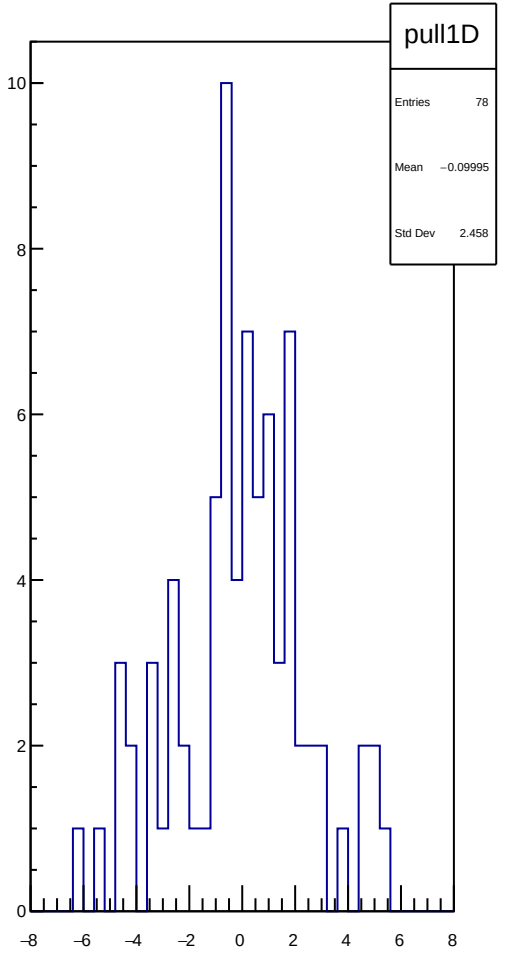

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.81 / 77
p0 31.07 ± 7.363
pull
Entries 78
Mean 66.96
Std Dev 29.34

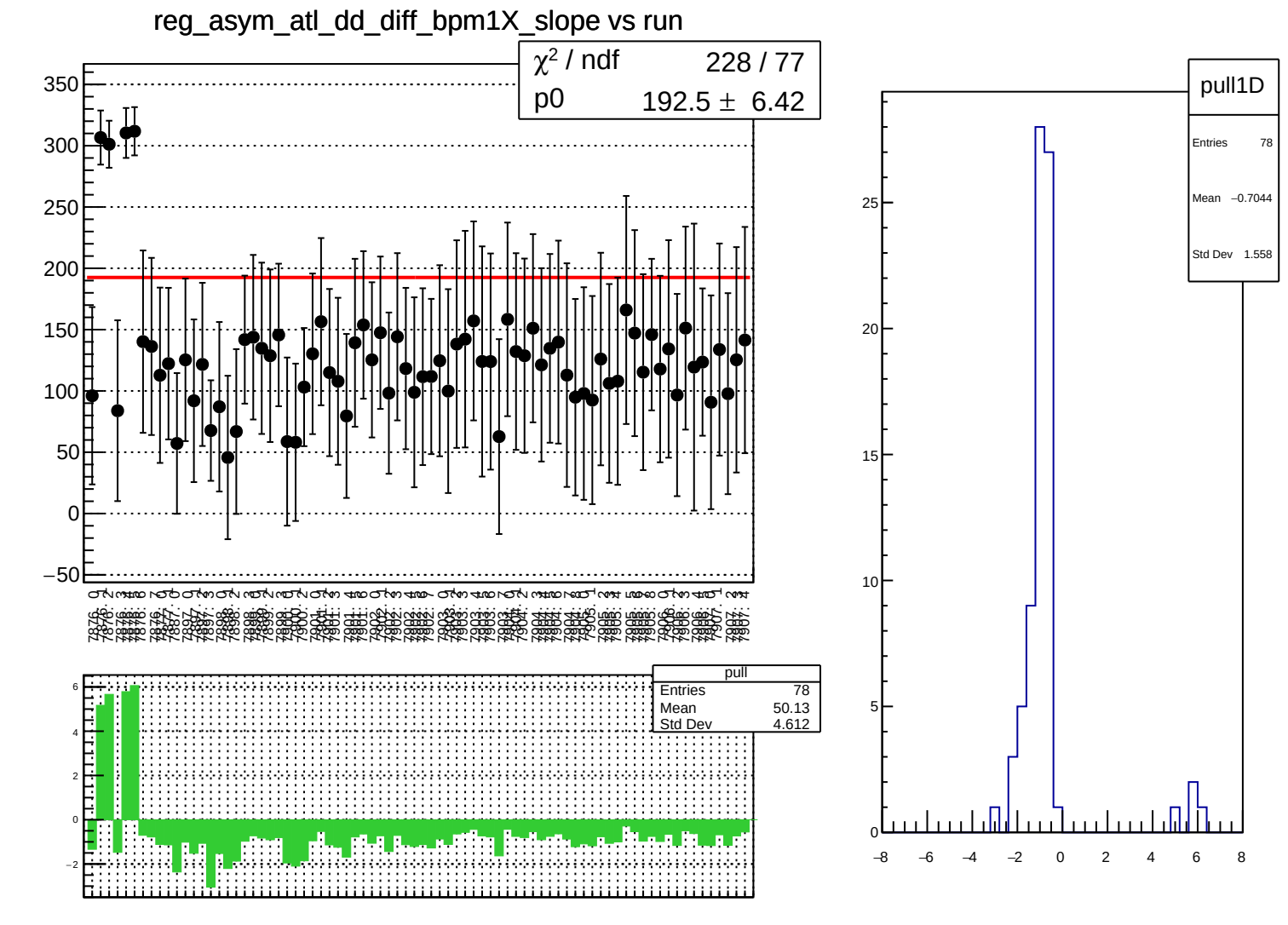

pull1D
Entries 78
Mean 0.1022
Std Dev 0.358

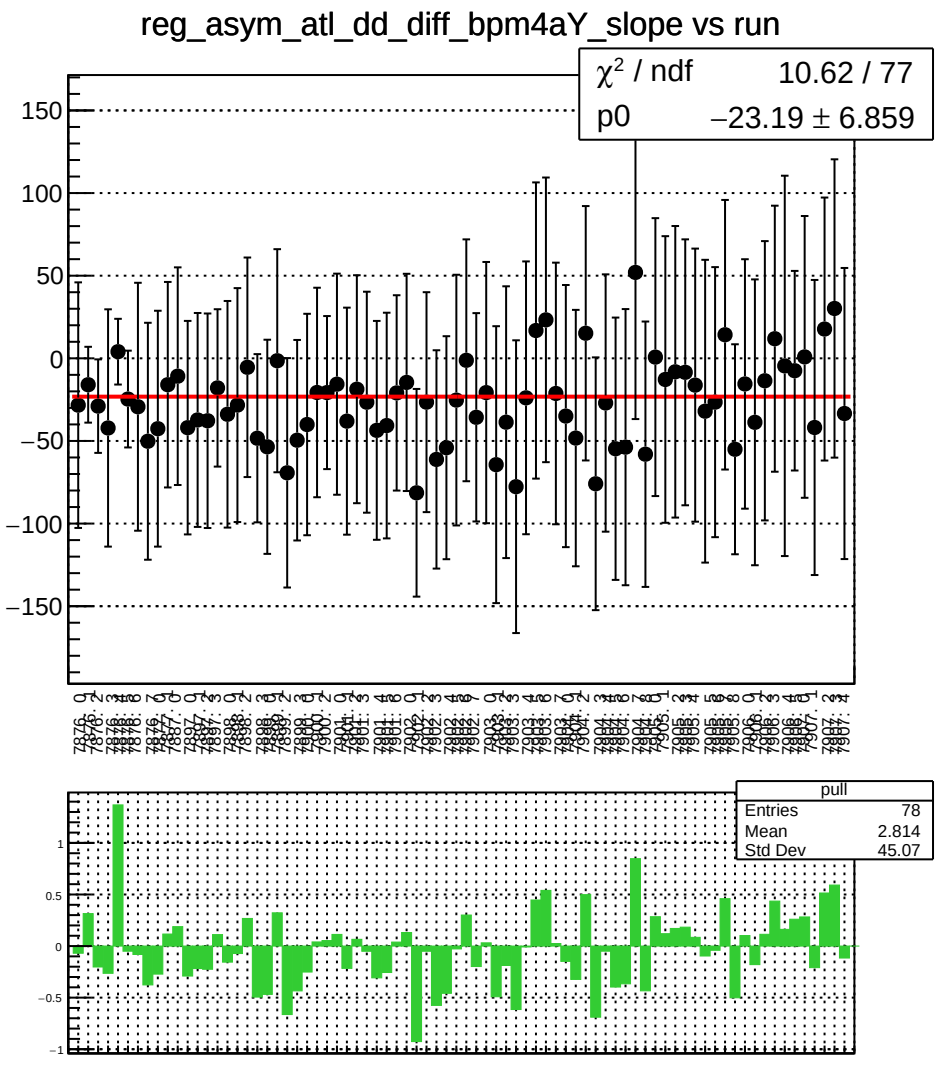

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 179.8 / 77
p0 164.2 ± 5.523
pull
Entries 78
Mean 43.56
Std Dev 13.79
pull1D
Entries 78
Mean −0.6678
Std Dev 1.363

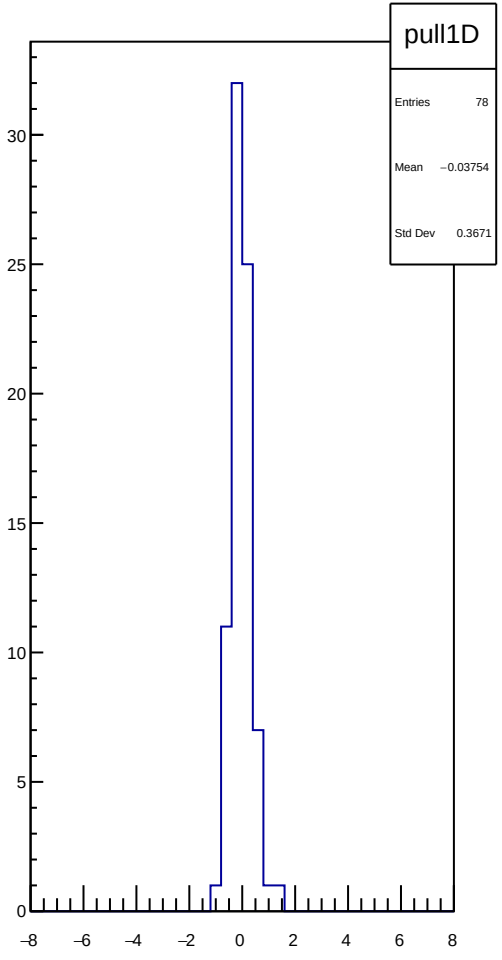

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.938 / 77
p0 17.17 ± 9.257
pull
Entries 78
Mean 82.38
Std Dev 47.37
pull1D
Entries 78
Mean −0.04414
Std Dev 0.3159

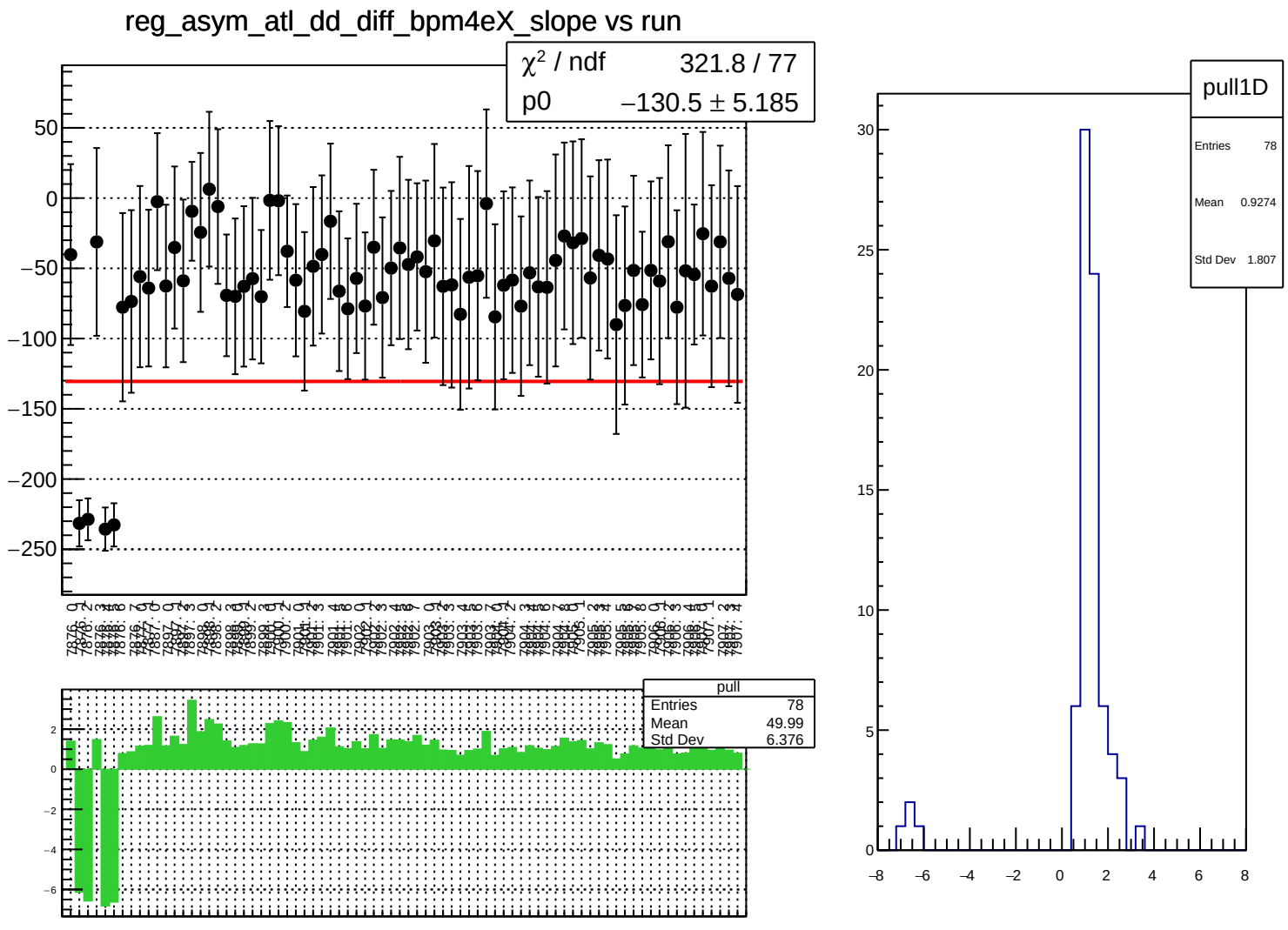

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 472 / 77
p0 −124.9 ± 0.3171
pull
Entries 78
Mean 64.51
Std Dev 57.38

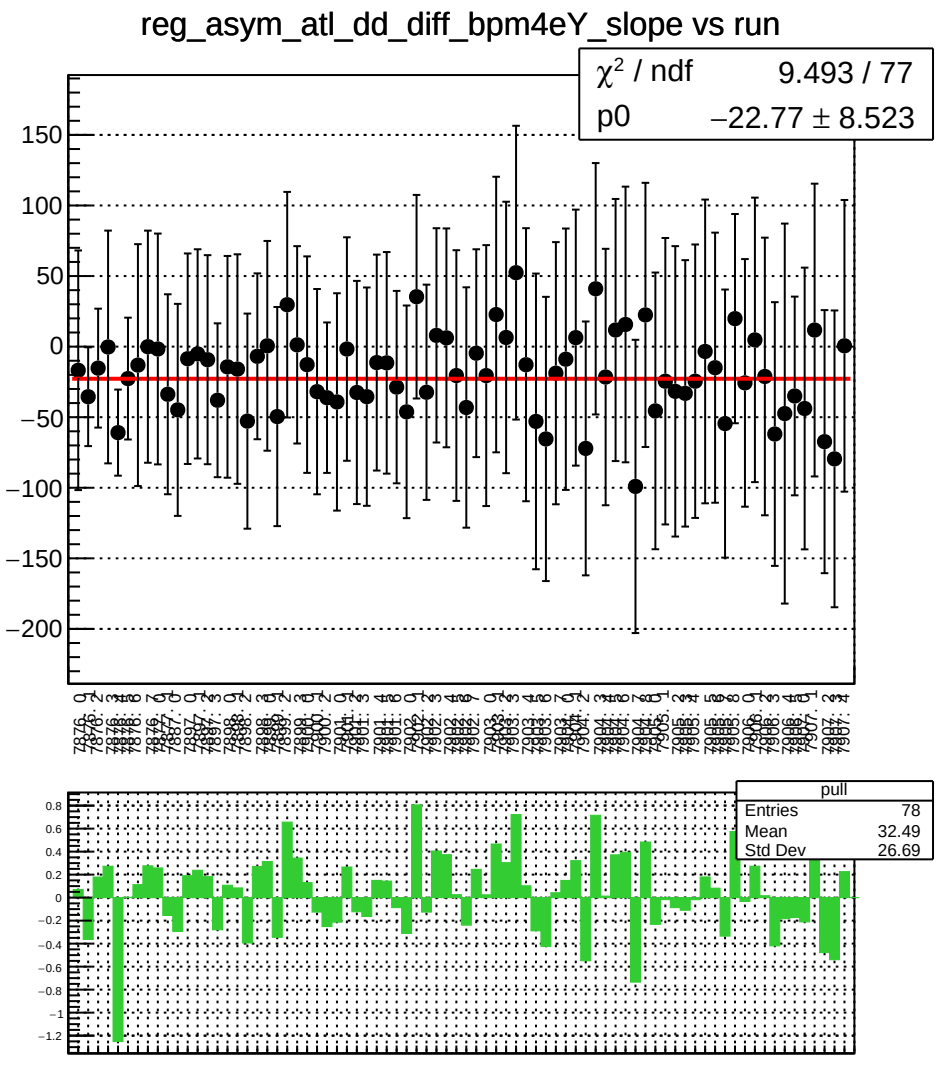

pull1D
Entries 78
Mean −0.09995
Std Dev 2.458

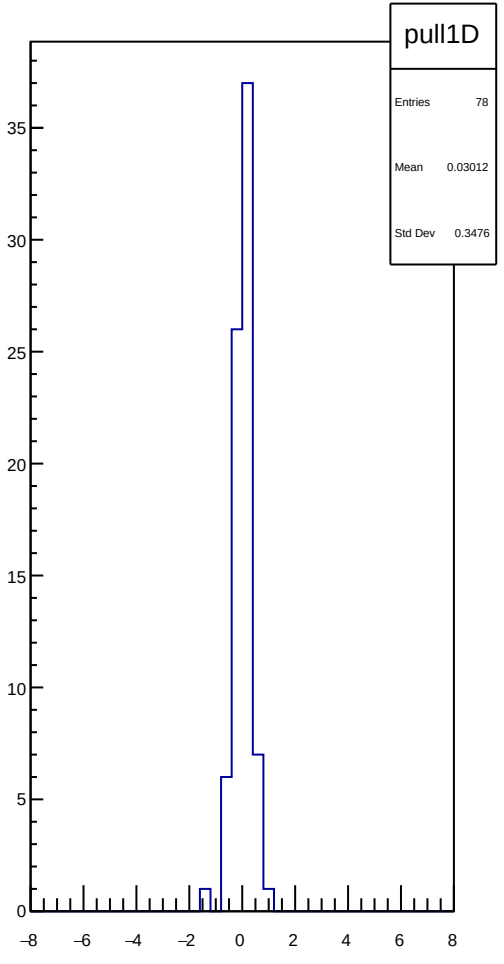

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 228 / 77
p0 192.5 ± 6.42
pull
Entries 78
Mean 50.13
Std Dev 4.612
pull1D
Entries 78
Mean −0.7044
Std Dev 1.558

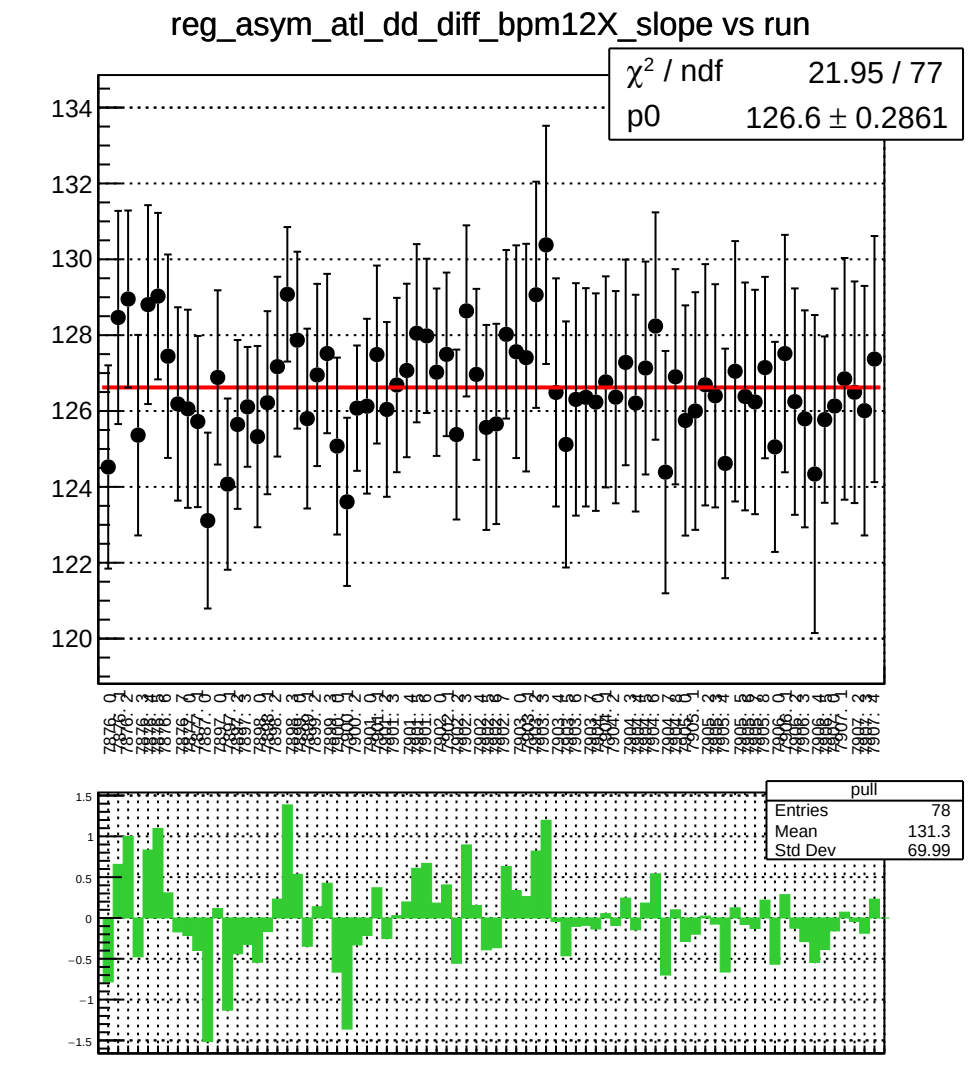

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.62 / 77
p0 −23.19 ± 6.859
pull
Entries 78
Mean 2.814
Std Dev 45.07

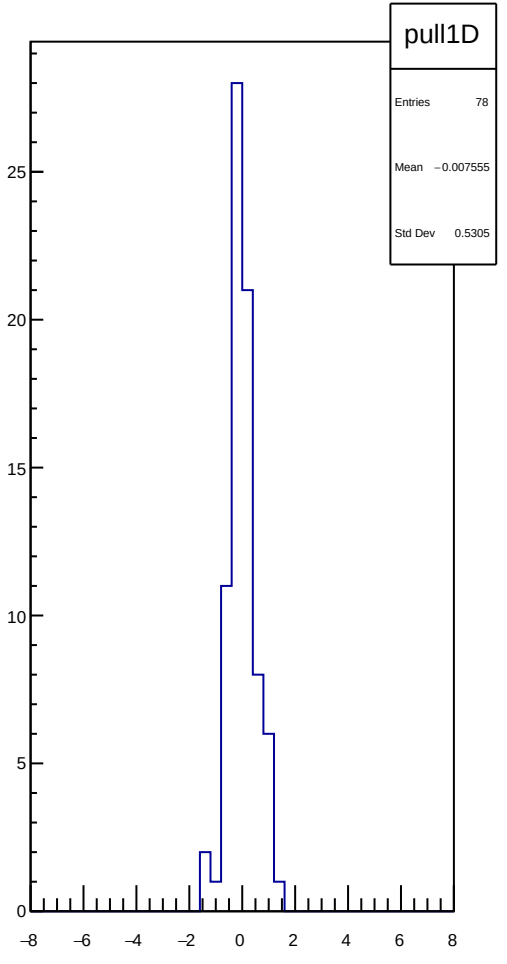

pull1D
Entries 78
Mean −0.03754
Std Dev 0.3671

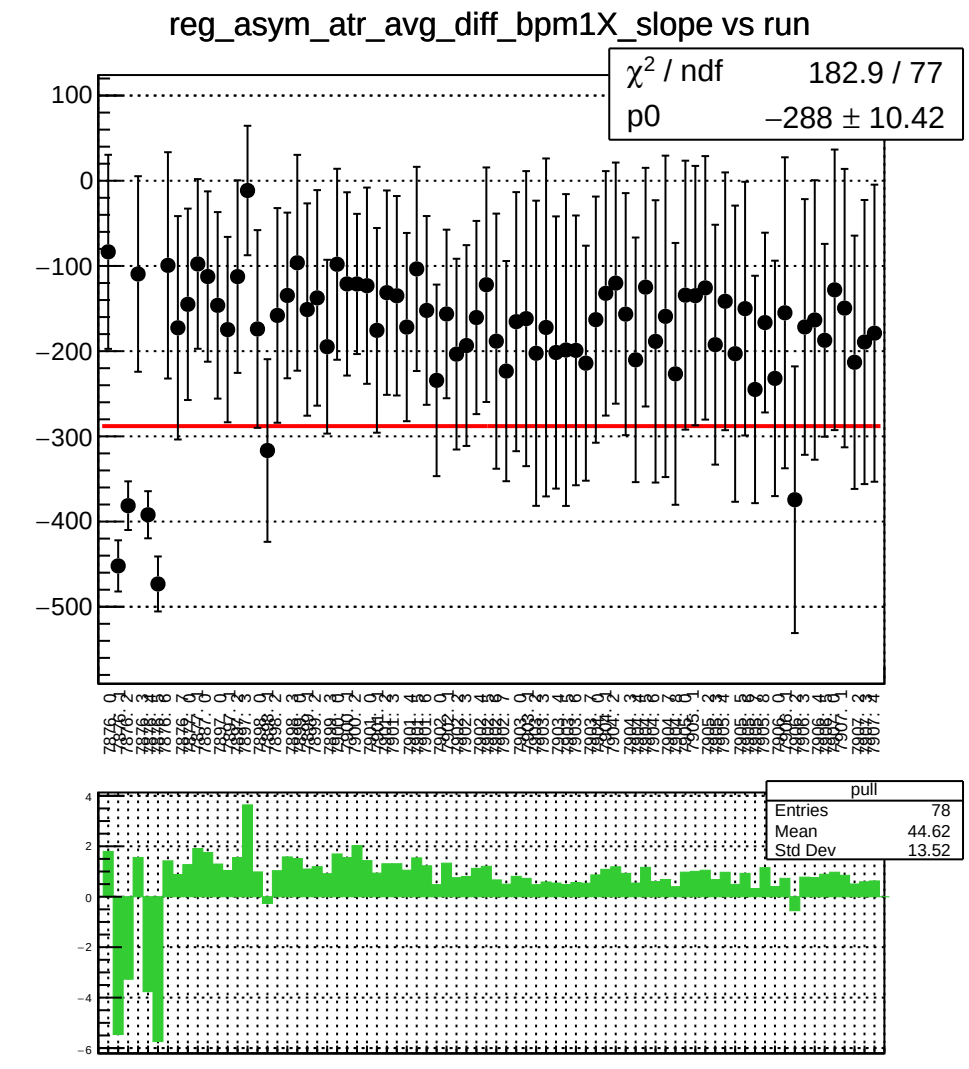

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 321.8 / 77
p0 −130.5 ± 5.185
pull
Entries 78
Mean 49.99
Std Dev 6.376
pull1D
Entries 78
Mean 0.9274
Std Dev 1.807

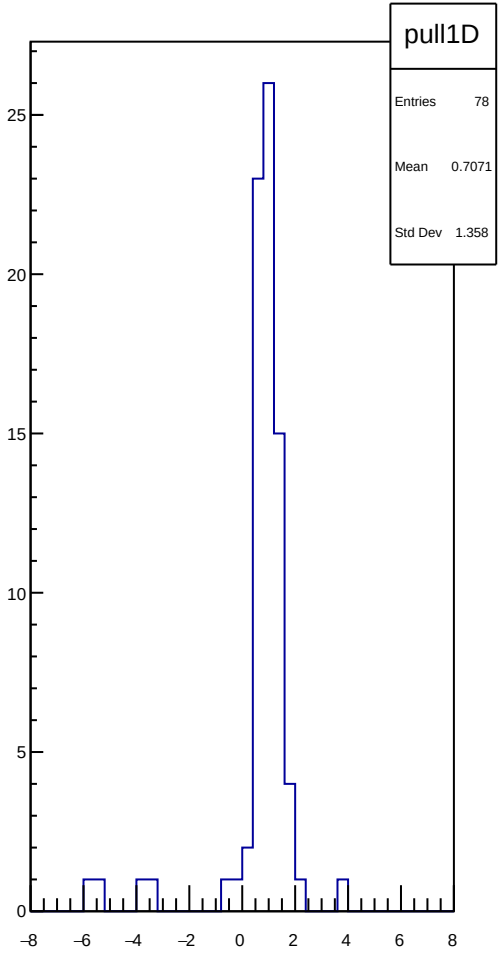

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.493 / 77
p0 −22.77 ± 8.523
150
100
50
0
−50
−100
−150
−200
pull
Entries 78
Mean 32.49
Std Dev 26.69
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

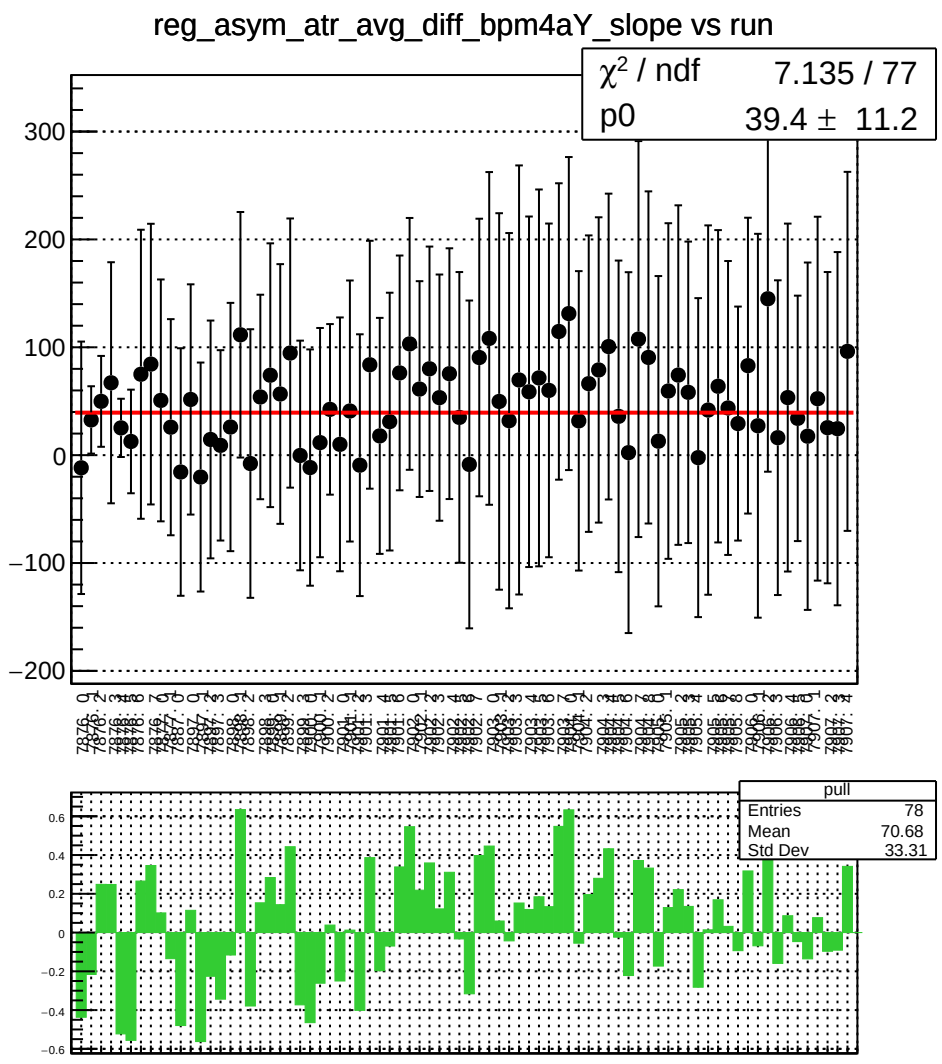

pull1D
Entries 78
Mean 0.03012
Std Dev 0.3476
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

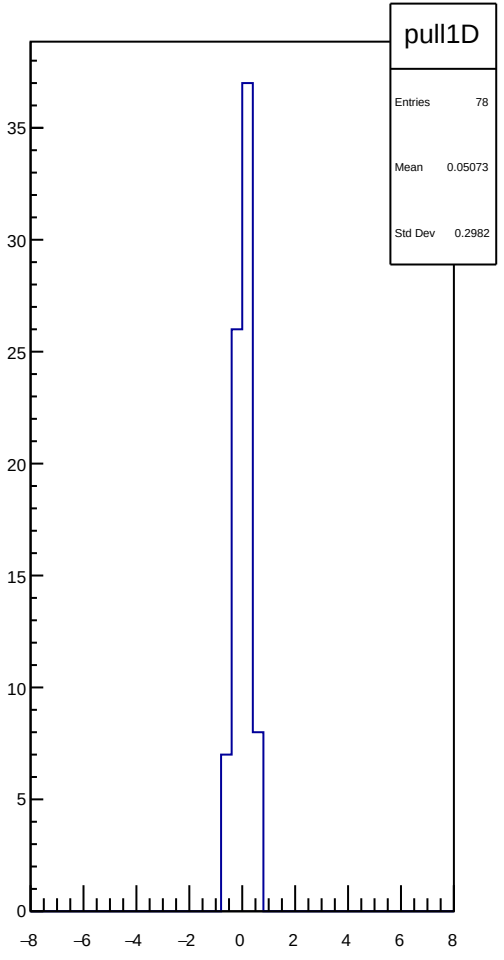

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 21.95 / 77
p0 126.6 ± 0.2861
pull
Entries 78
Mean 131.3
Std Dev 69.99

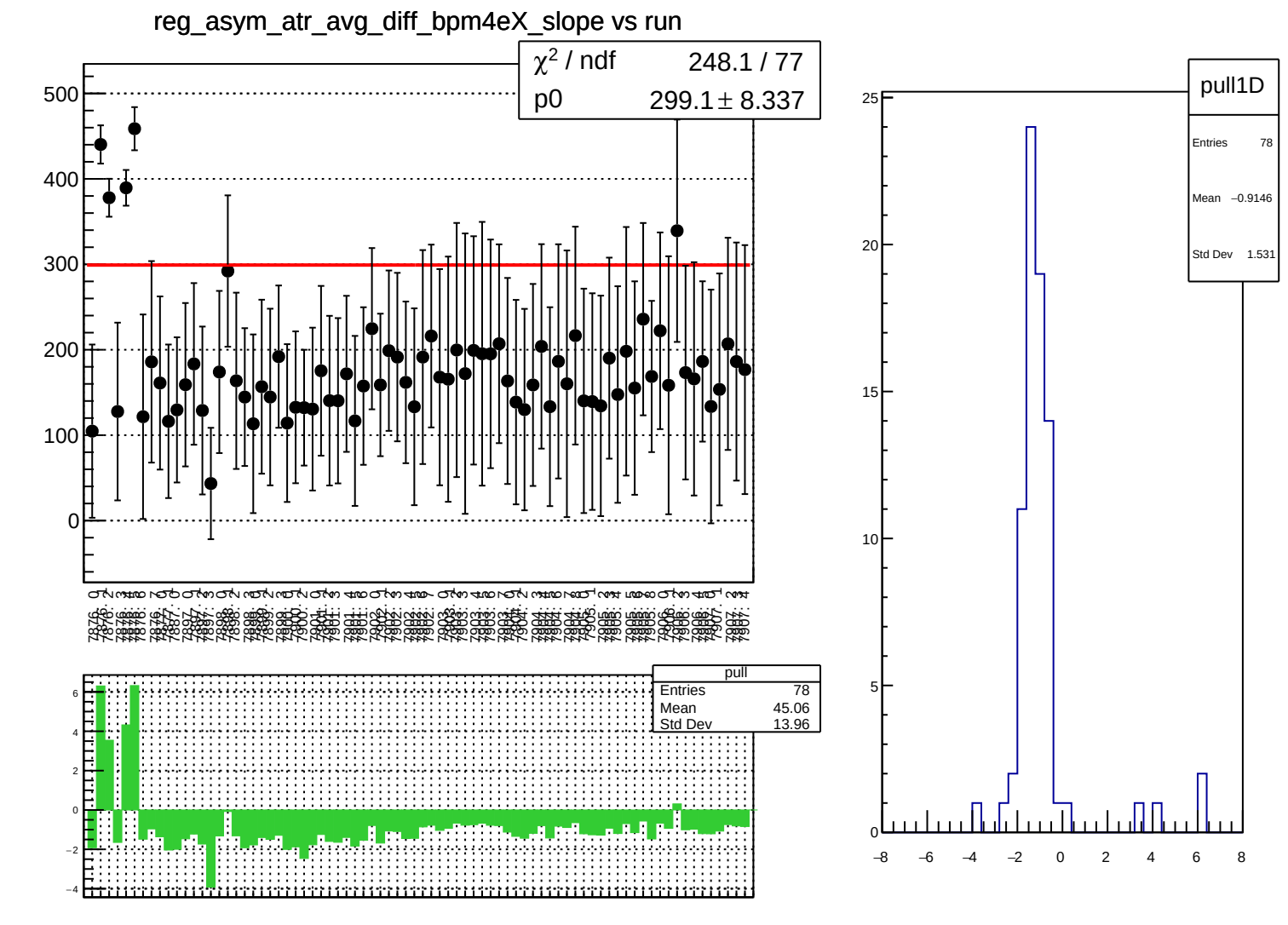

pull1D
Entries 78
Mean −0.007555
Std Dev 0.5305

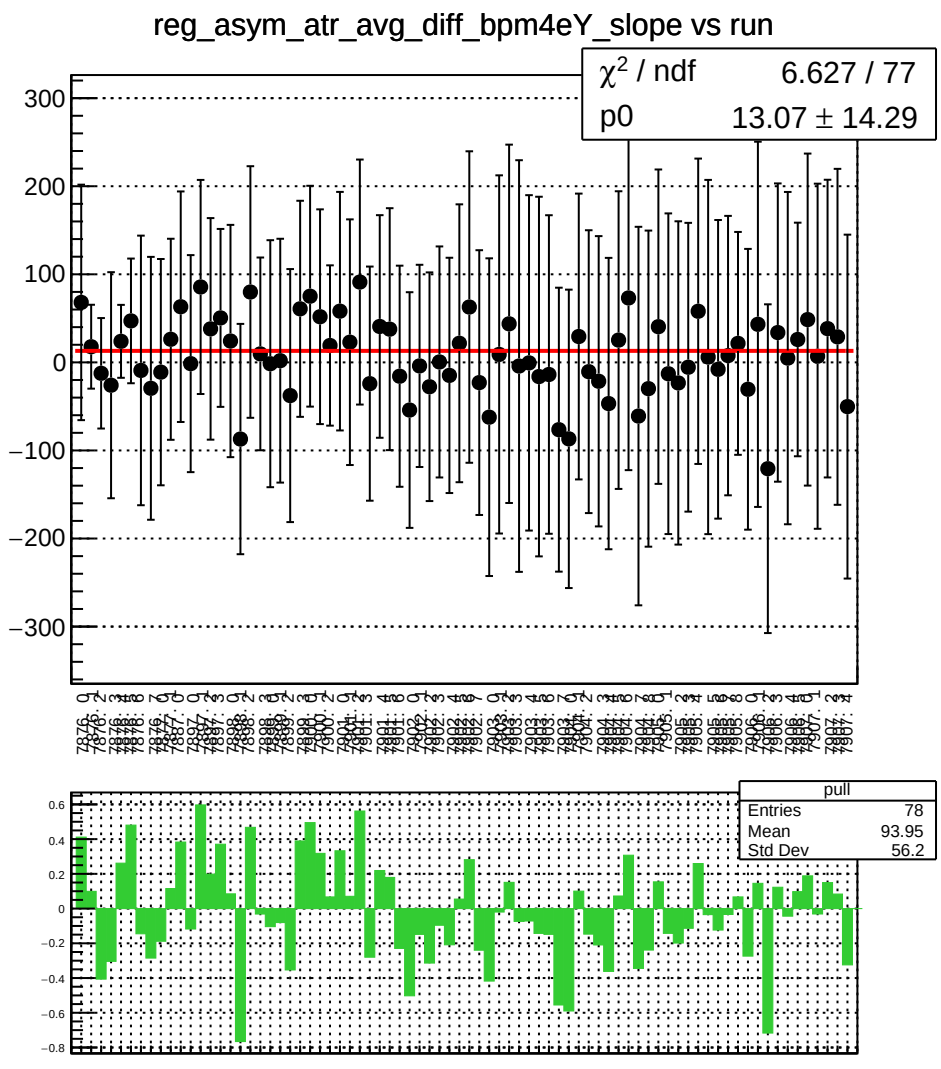

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 182.9 / 77
p0 −288 ± 10.42
pull
Entries 78
Mean 44.62
Std Dev 13.52

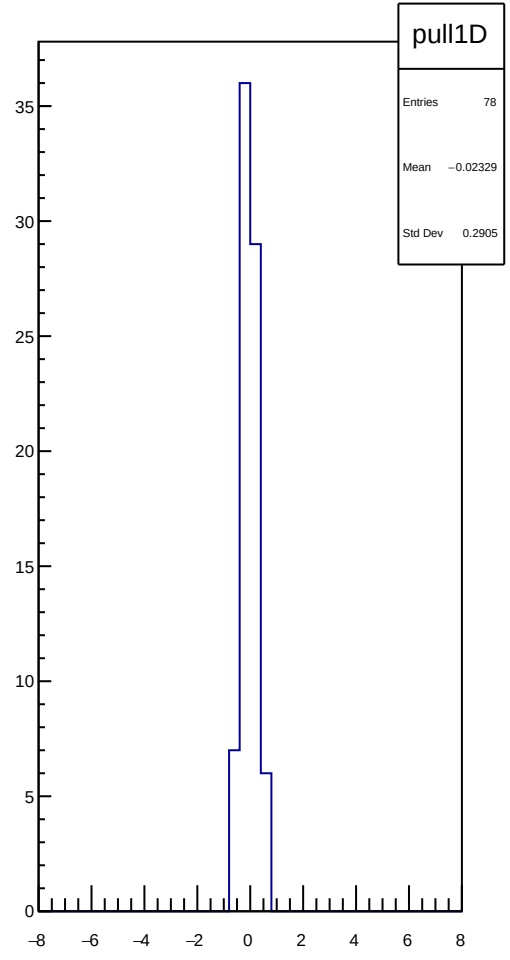

pull1D
Entries 78
Mean 0.7071
Std Dev 1.358

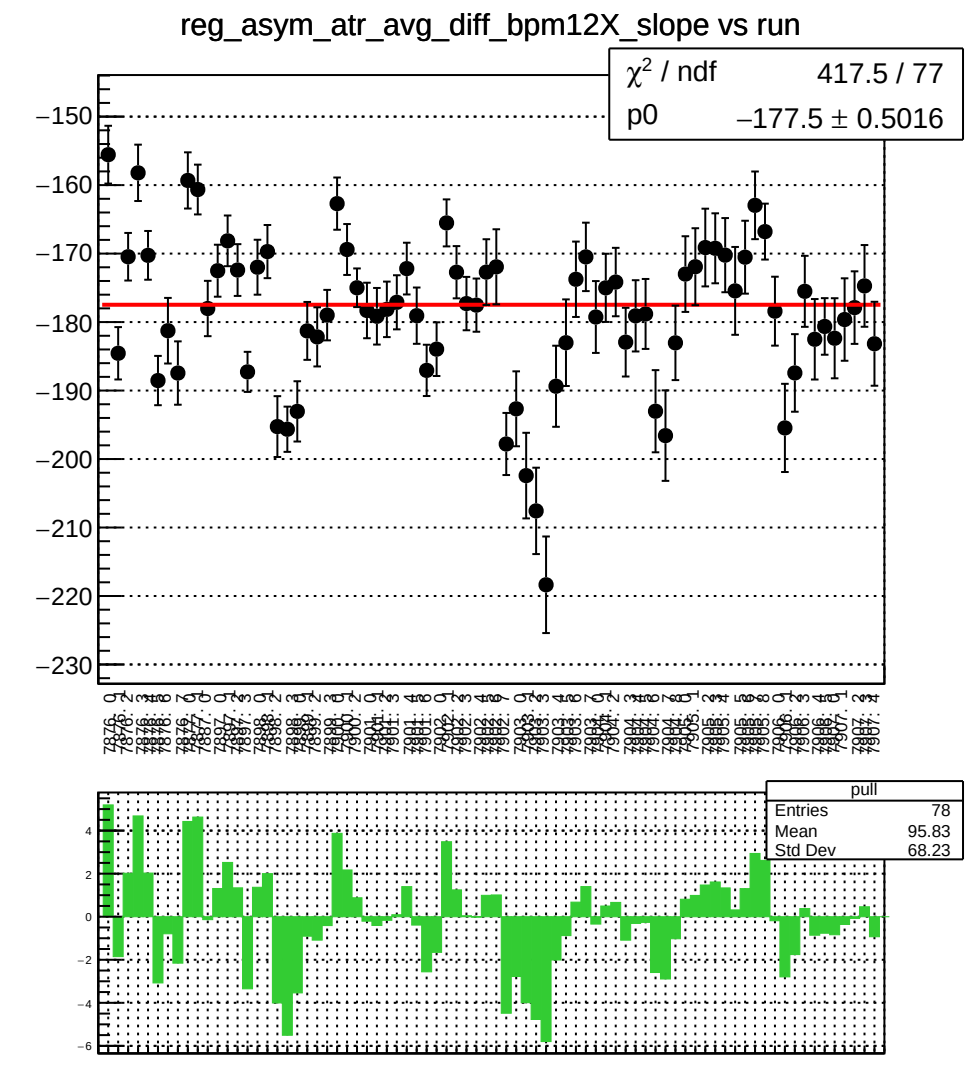

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.135 / 77
p0 39.4 ± 11.2
pull
Entries 78
Mean 70.68
Std Dev 33.31

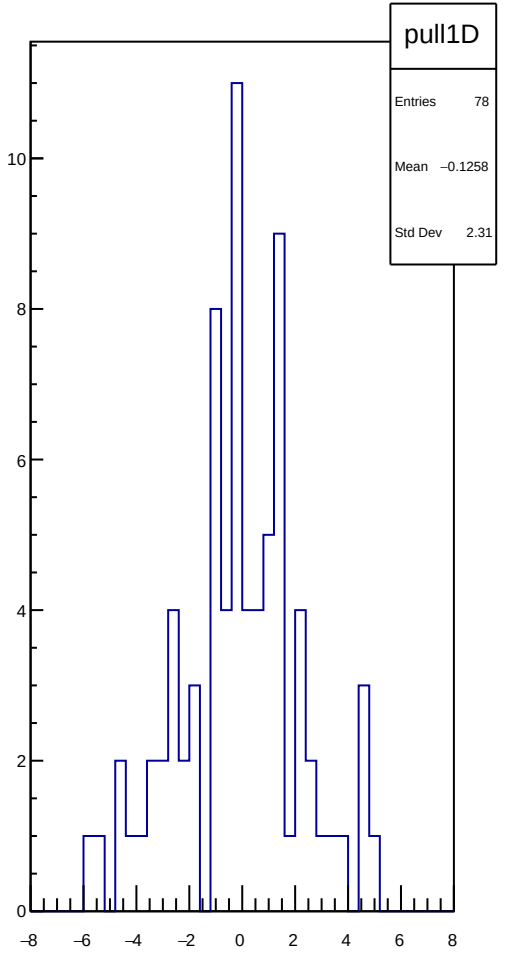

pull1D
Entries 78
Mean 0.05073
Std Dev 0.2982

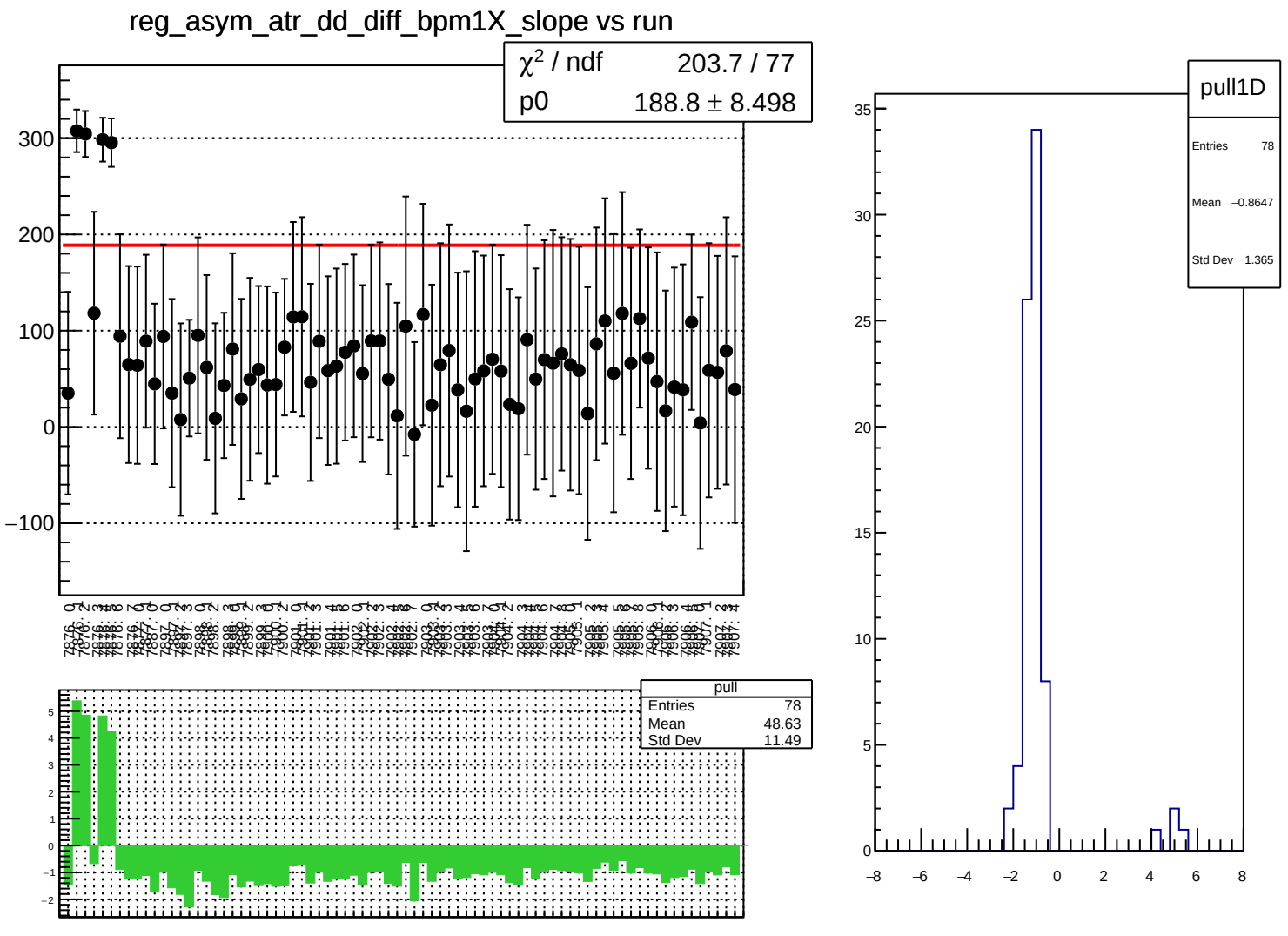

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 248.1 / 77
p0 299.1 ± 8.337
pull
Entries 78
Mean 45.06
Std Dev 13.96
pull1D
Entries 78
Mean −0.9146
Std Dev 1.531

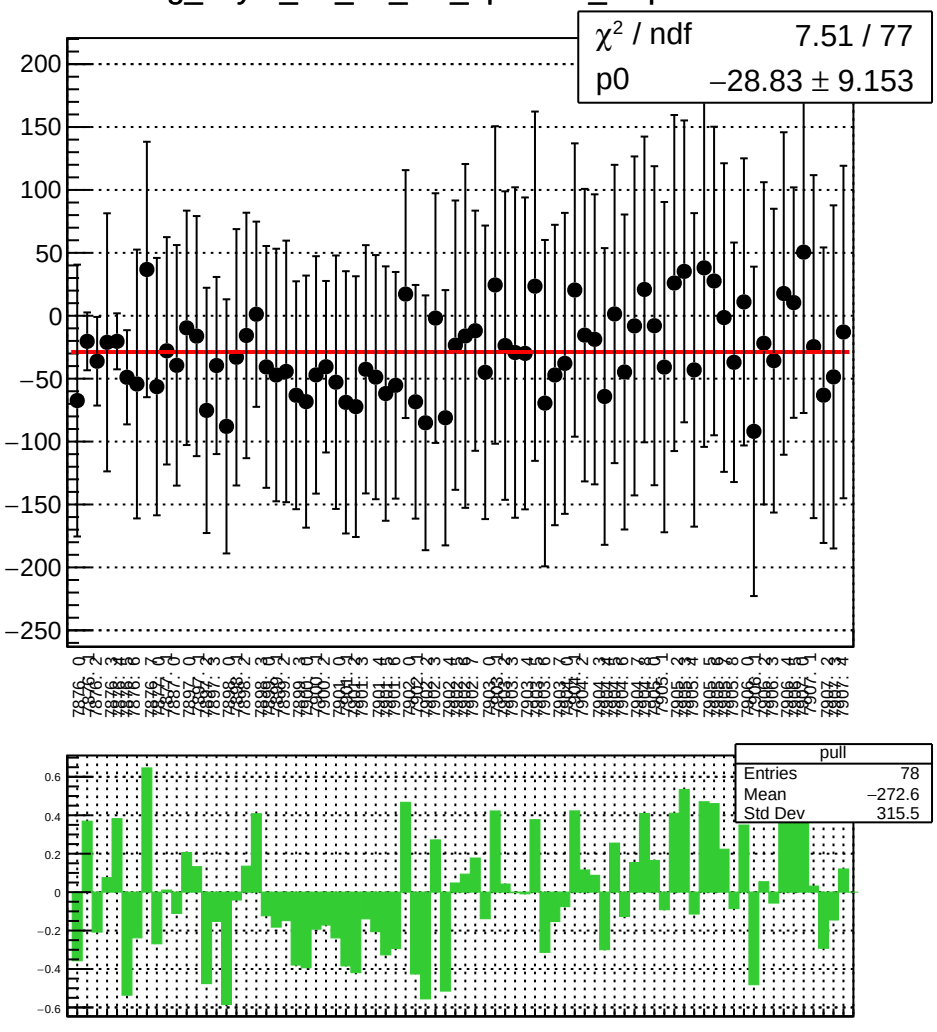

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.627 / 77
p0 13.07 ± 14.29
pull
Entries 78
Mean 93.95
Std Dev 56.2

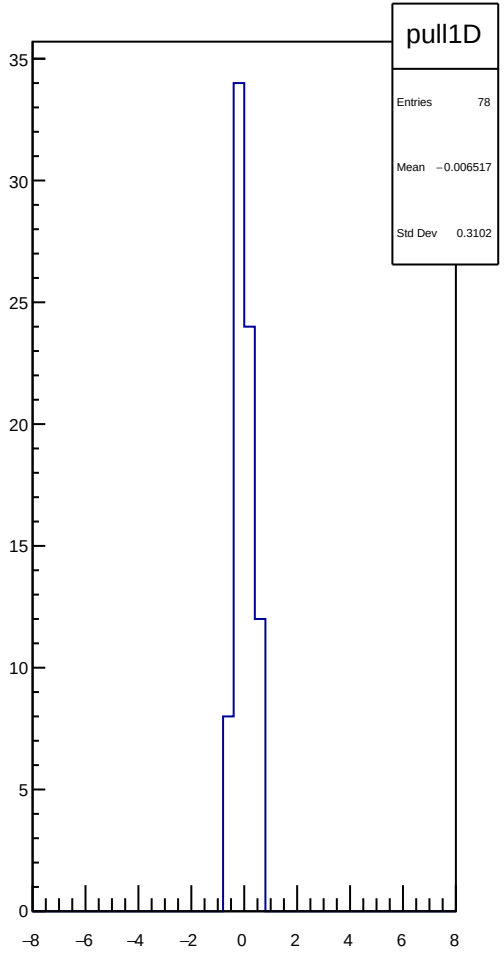

pull1D
Entries 78
Mean −0.02329
Std Dev 0.2905

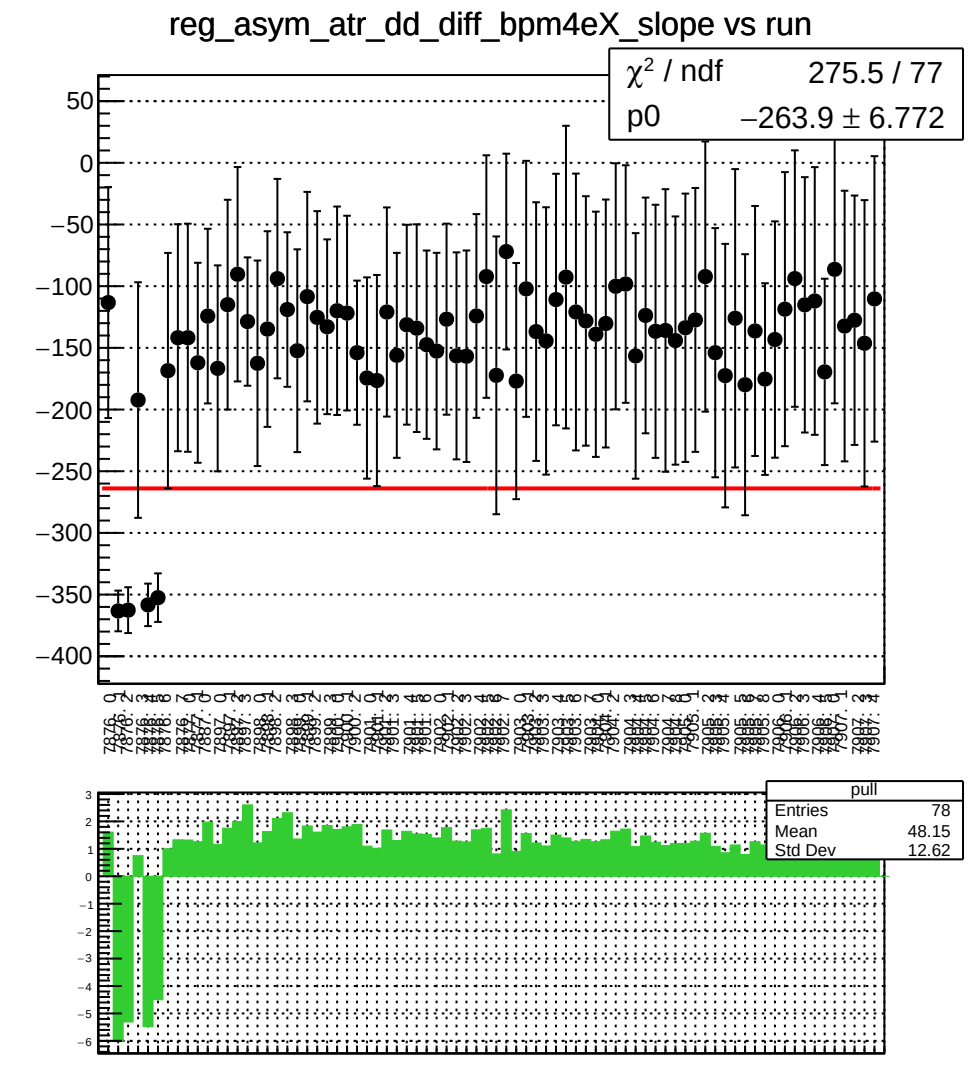

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ^2 / ndf 417.5 / 77
p0 −177.5 ± 0.5016
pull
Entries 78
Mean 95.83
Std Dev 68.23

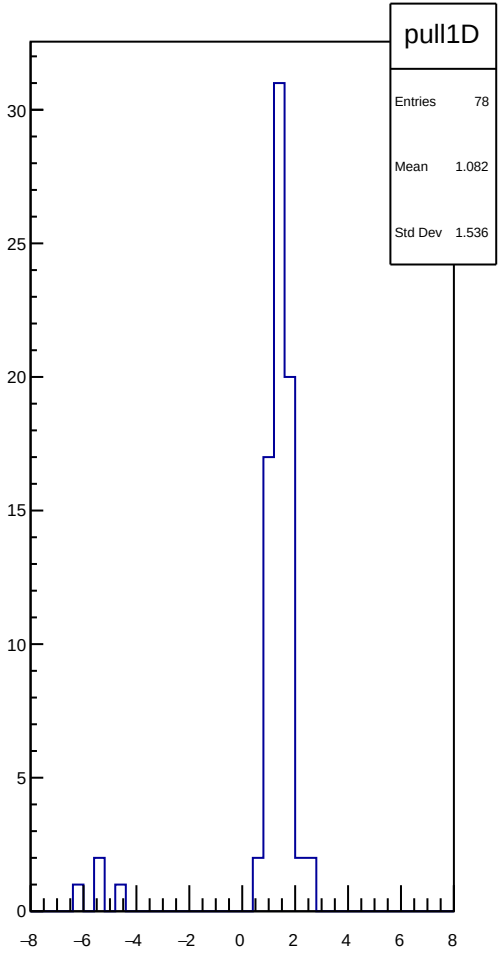

pull1D
Entries 78
Mean −0.1258
Std Dev 2.31

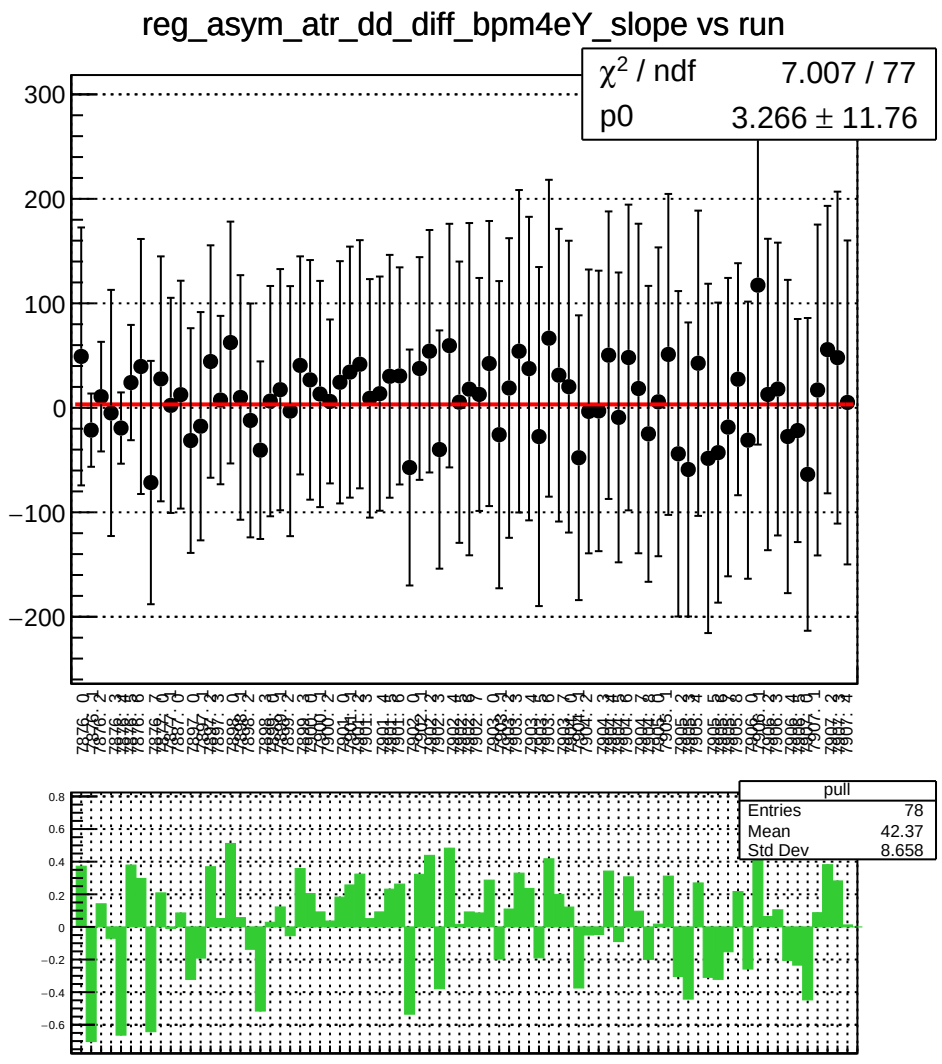

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 203.7 / 77
p0 188.8 ± 8.498
300
200
100
0
−100
pull
Entries 78
Mean 48.63
Std Dev 11.49
5
4
3
2
1
0
−1
−2
pull1D
Entries 78
Mean −0.8647
Std Dev 1.365
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

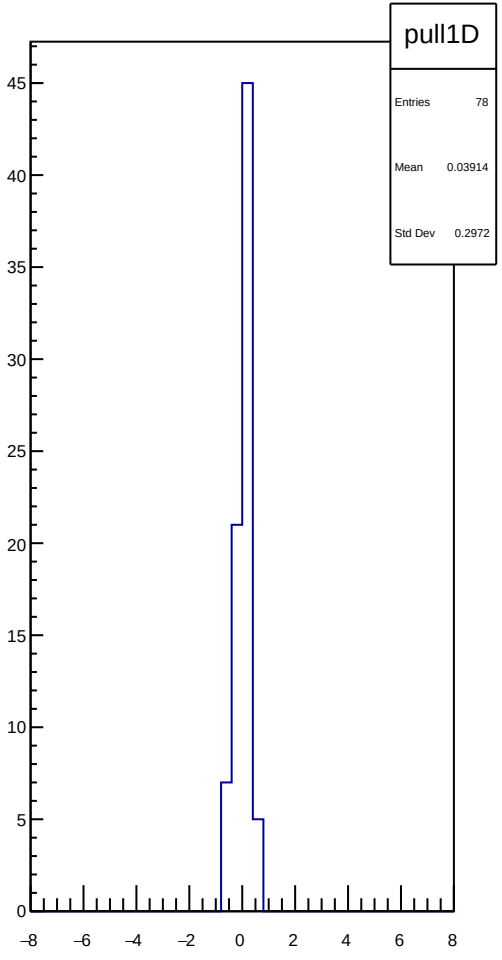

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.51 / 77
p0 −28.83 ± 9.153
pull
Entries 78
Mean −272.6
Std Dev 315.5

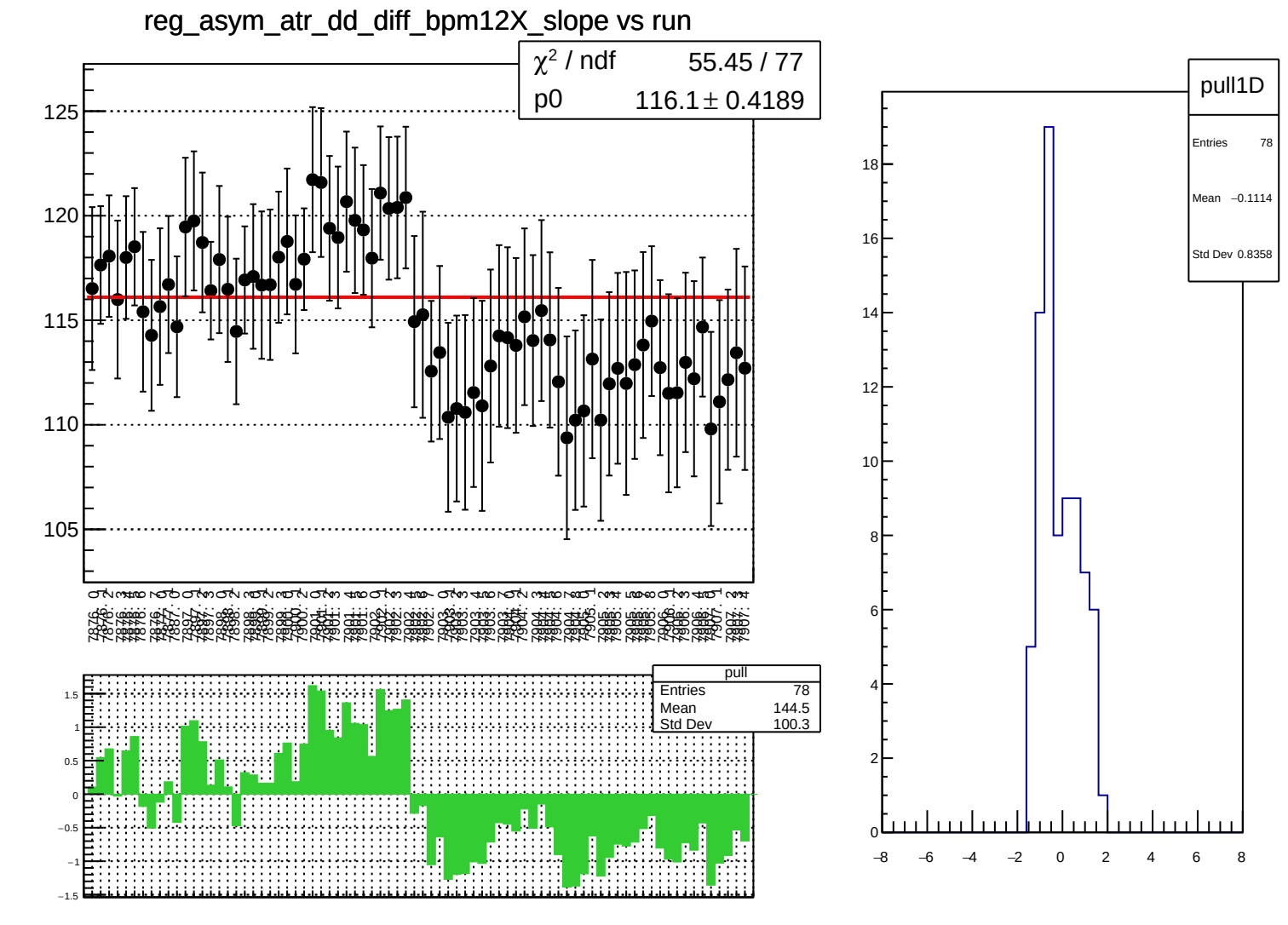

pull1D
Entries 78
Mean −0.006517
Std Dev 0.3102

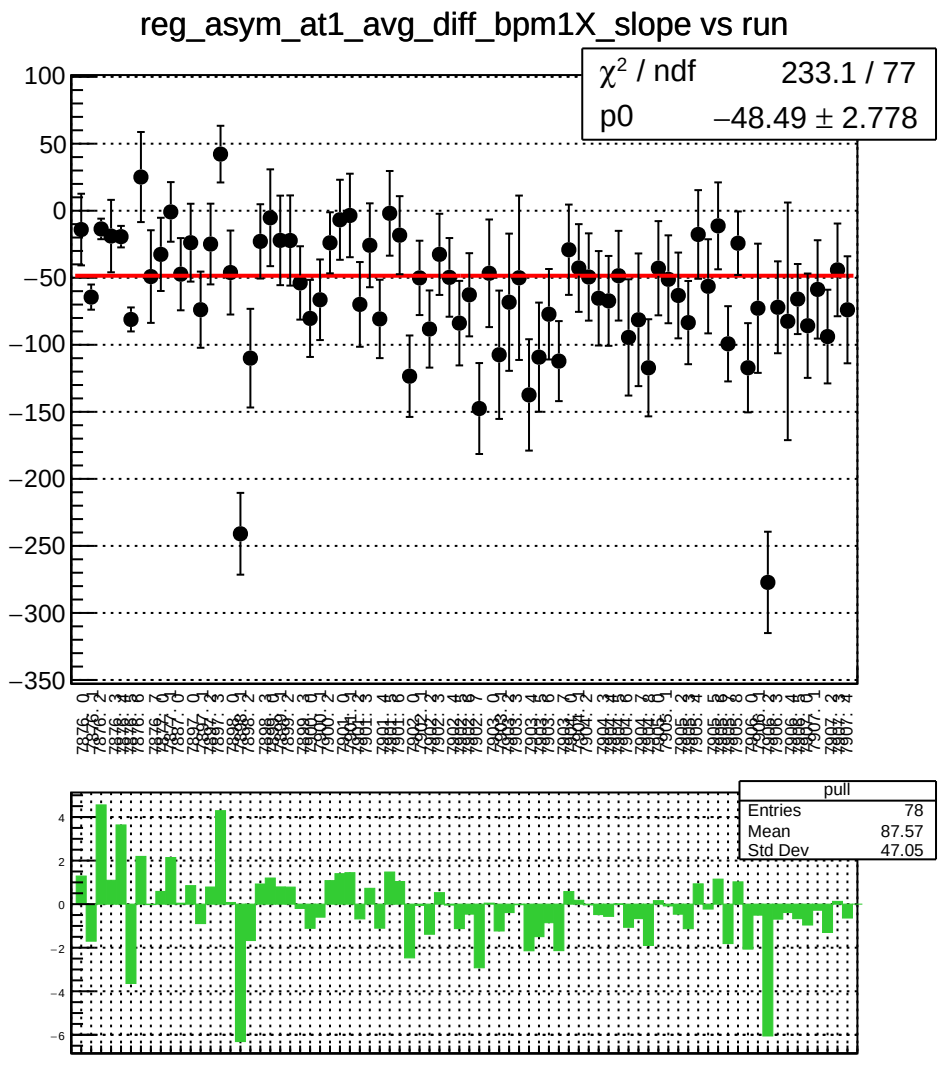

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 275.5 / 77
p0 −263.9 ± 6.772
pull
Entries 78
Mean 48.15
Std Dev 12.62

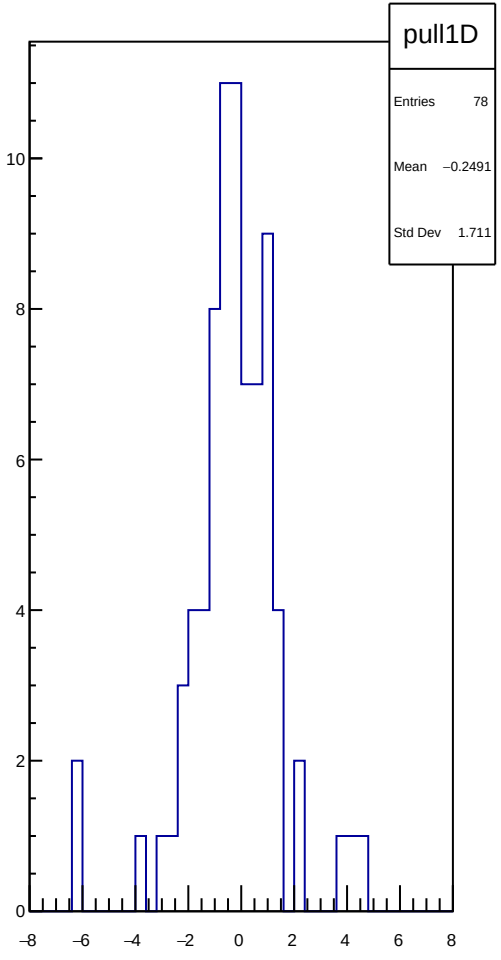

pull1D
Entries 78
Mean 1.082
Std Dev 1.536

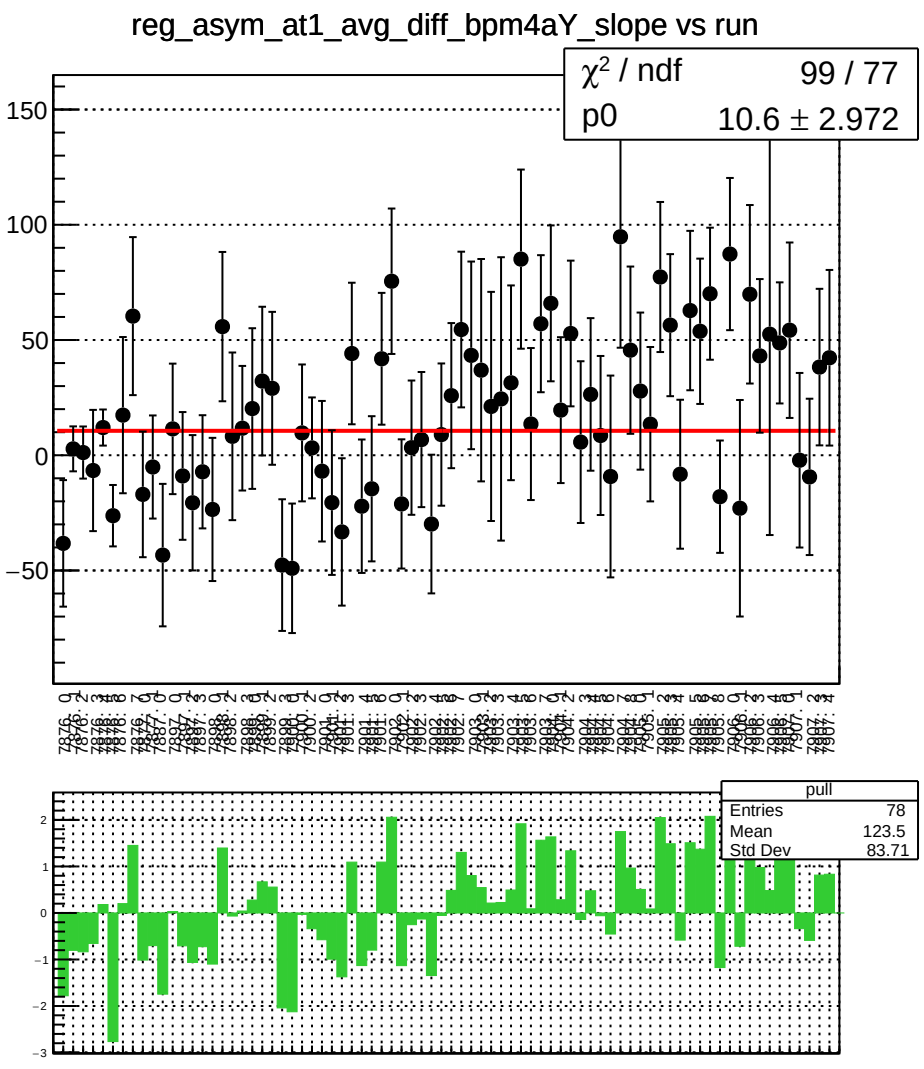

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.007 / 77
p0 3.266 ± 11.76
pull
Entries 78
Mean 42.37
Std Dev 8.658

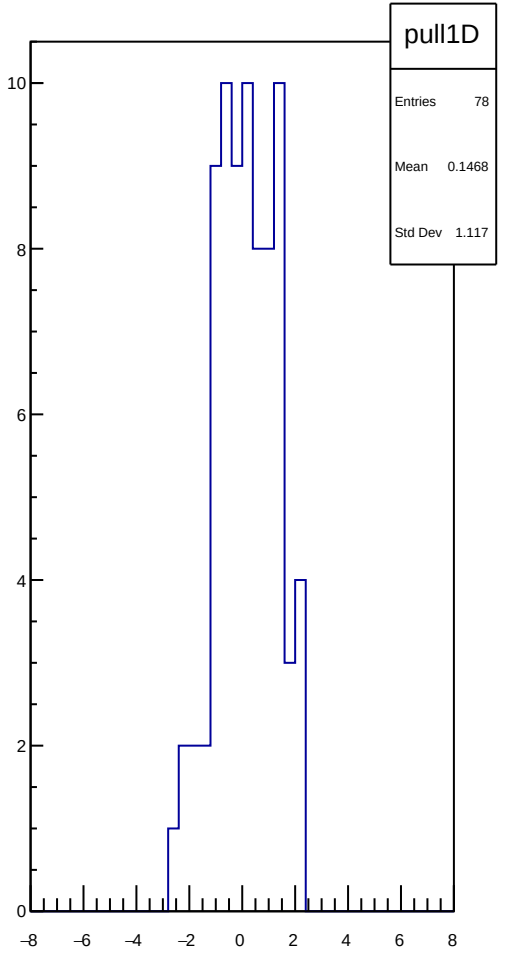

pull1D
Entries 78
Mean 0.03914
Std Dev 0.2972

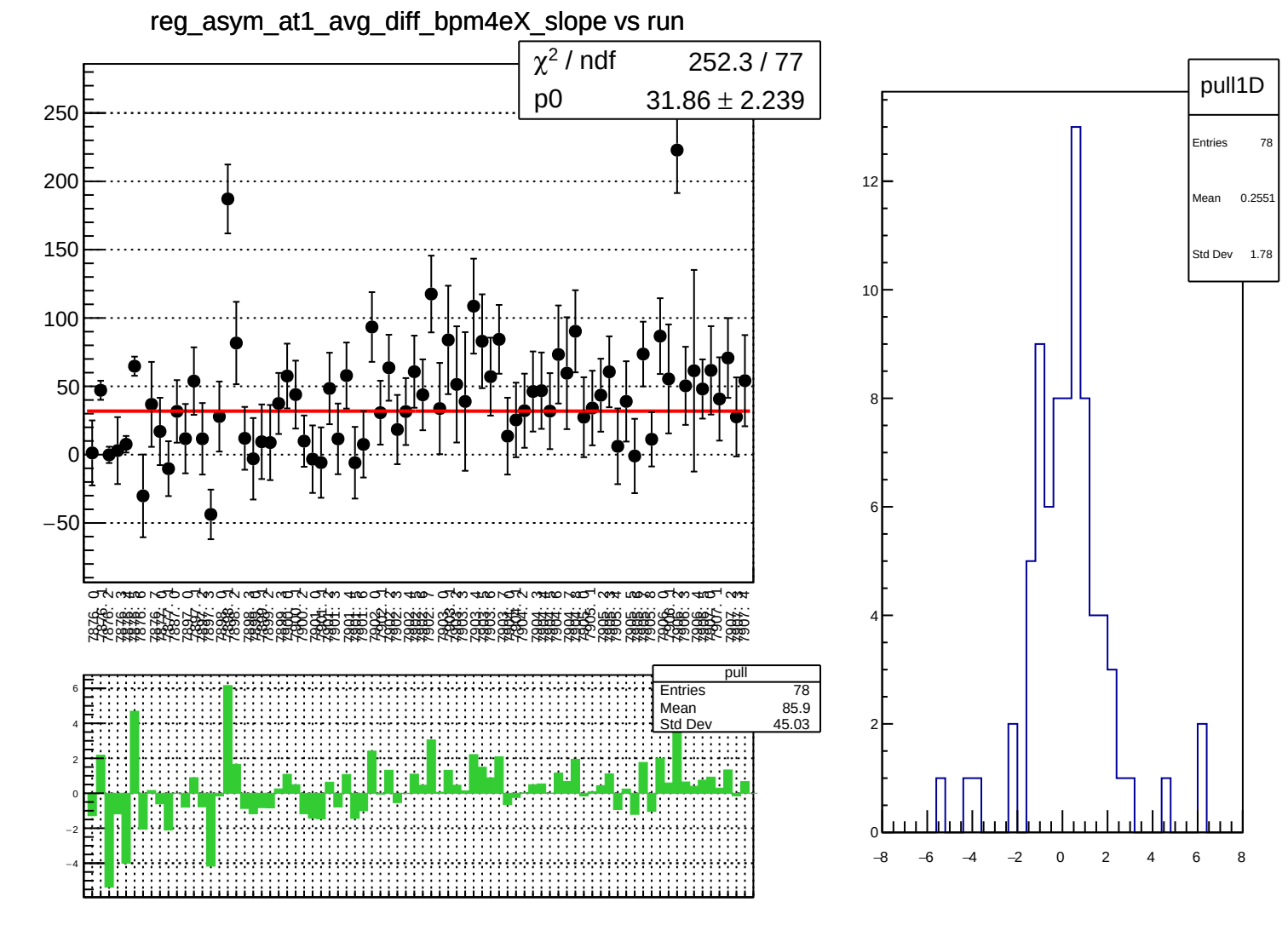

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 55.45 / 77
p0 116.1 ± 0.4189
125
120
115
110
105
pull
Entries 78
Mean 144.5
Std Dev 100.3
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 78
Mean −0.1114
Std Dev 0.8358
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

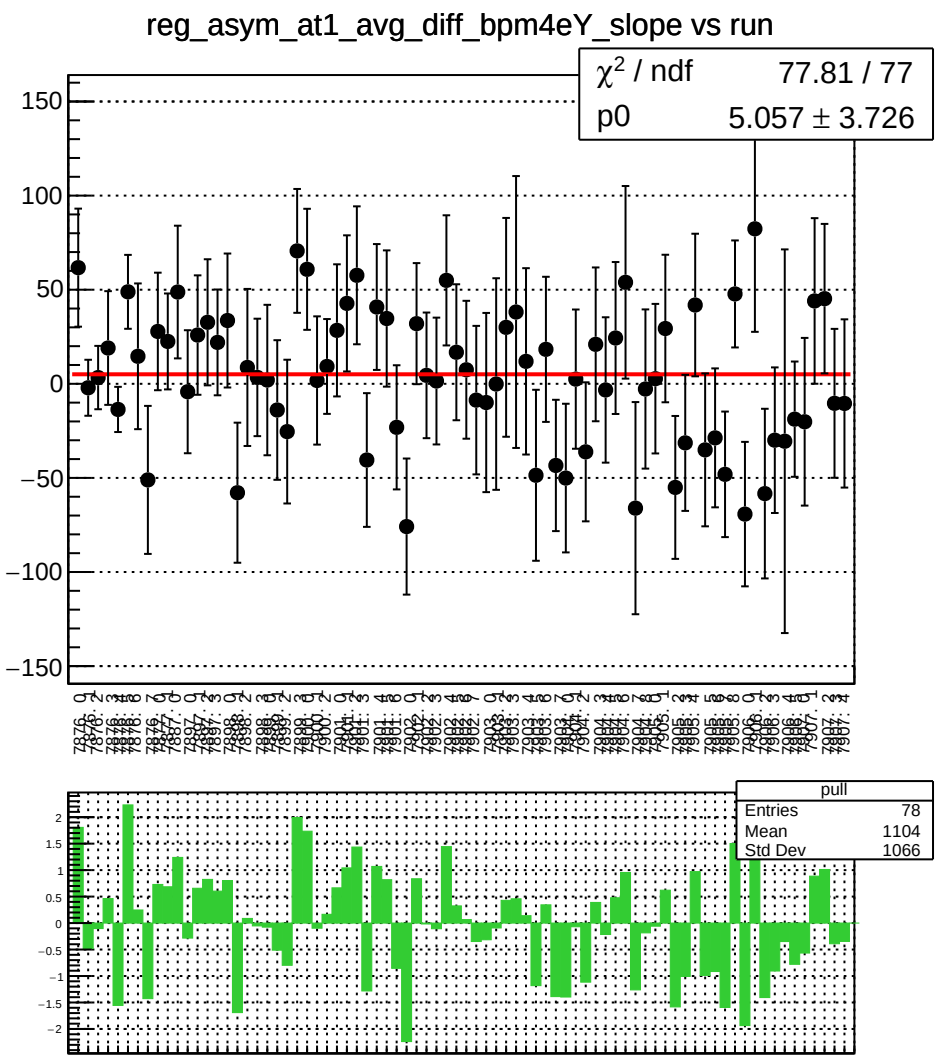

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 233.1 / 77
p0 −48.49 ± 2.778
pull
Entries 78
Mean 87.57
Std Dev 47.05

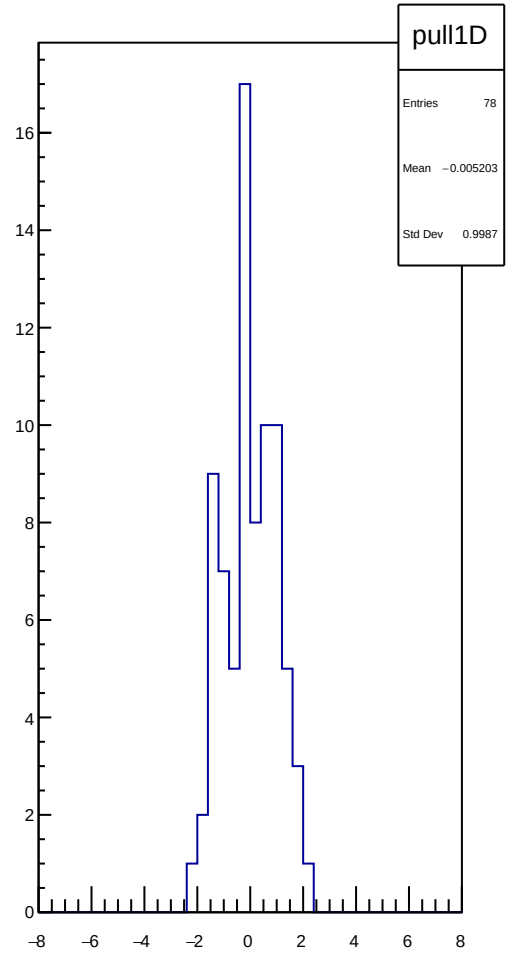

pull1D
Entries 78
Mean −0.2491
Std Dev 1.711

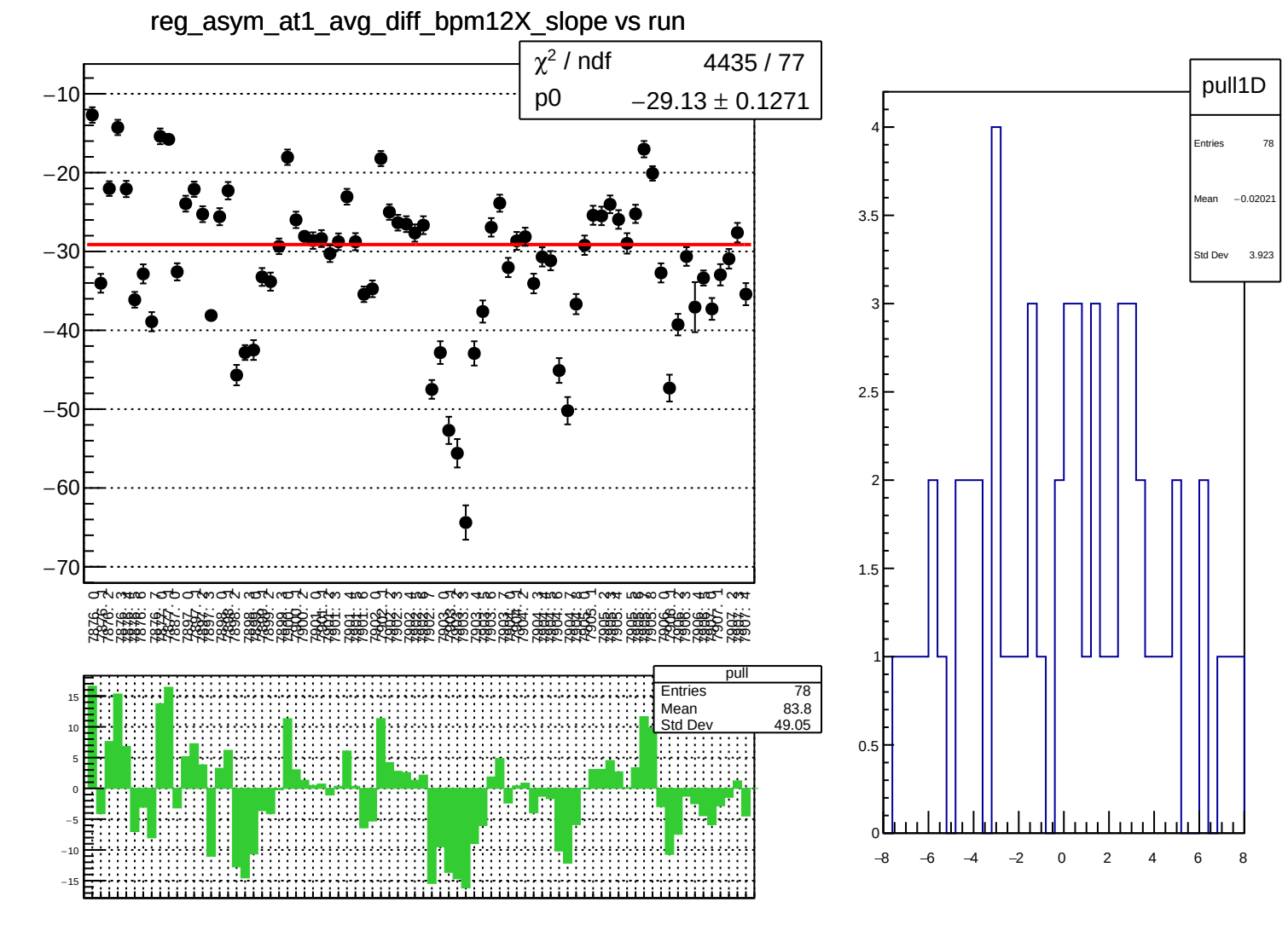

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 99 / 77
p0 10.6 ± 2.972
150
100
50
0
−50
pull
Entries 78
Mean 123.5
Std Dev 83.71
2
1
0
−1
−2
−3

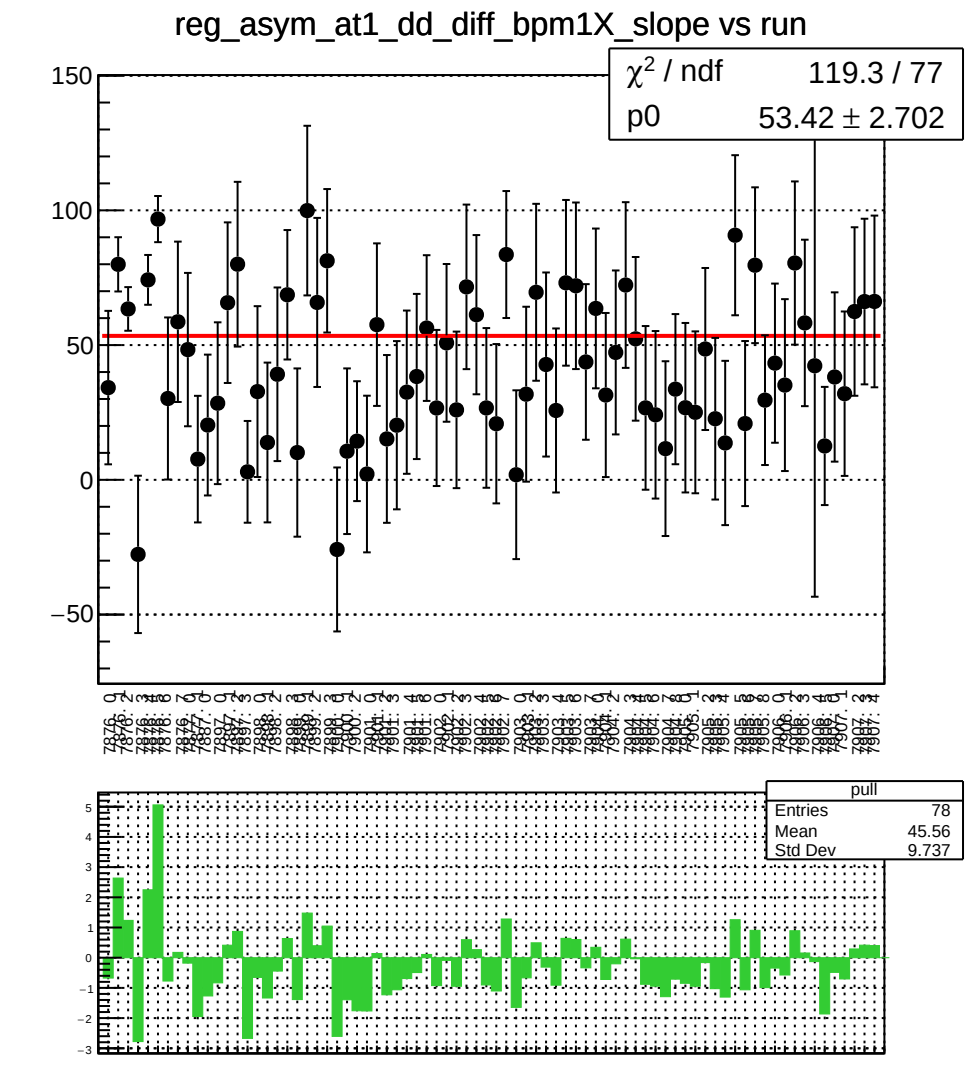

pull1D
Entries 78
Mean 0.1468
Std Dev 1.117
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

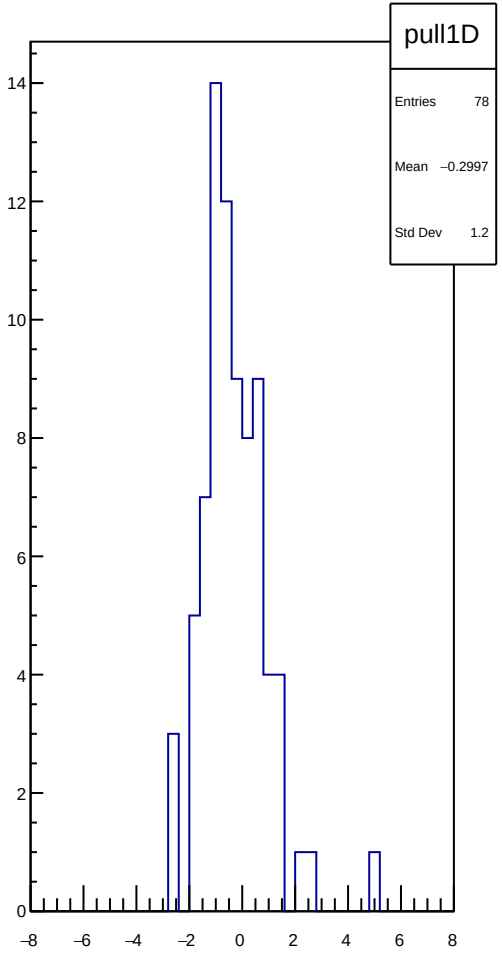

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 252.3 / 77
p0 31.86 ± 2.239
250
200
150
100
50
0
−50
pull
Entries 78
Mean 85.9
Std Dev 45.03
6
4
2
0
−2
−4
pull1D
Entries 78
Mean 0.2551
Std Dev 1.78
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

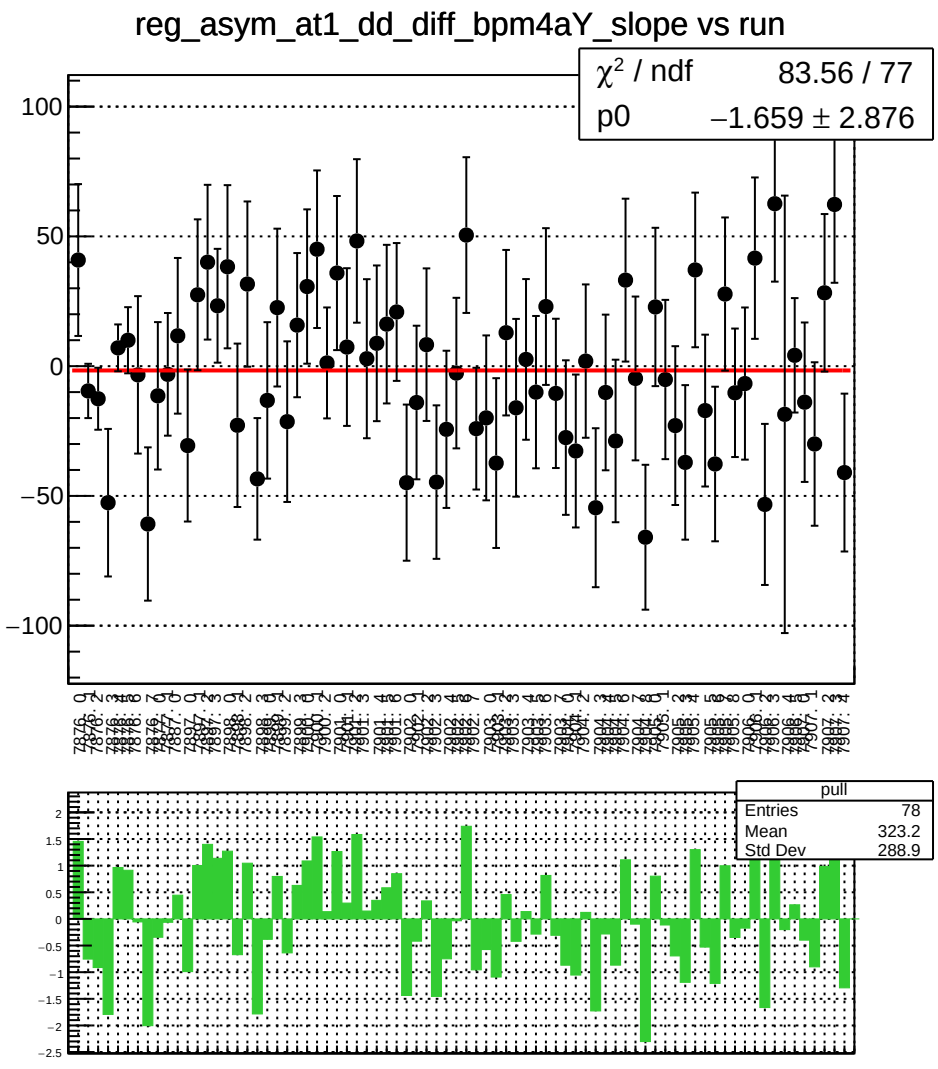

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.81 / 77
p0 5.057 ± 3.726
pull
Entries 78
Mean 1104
Std Dev 1066

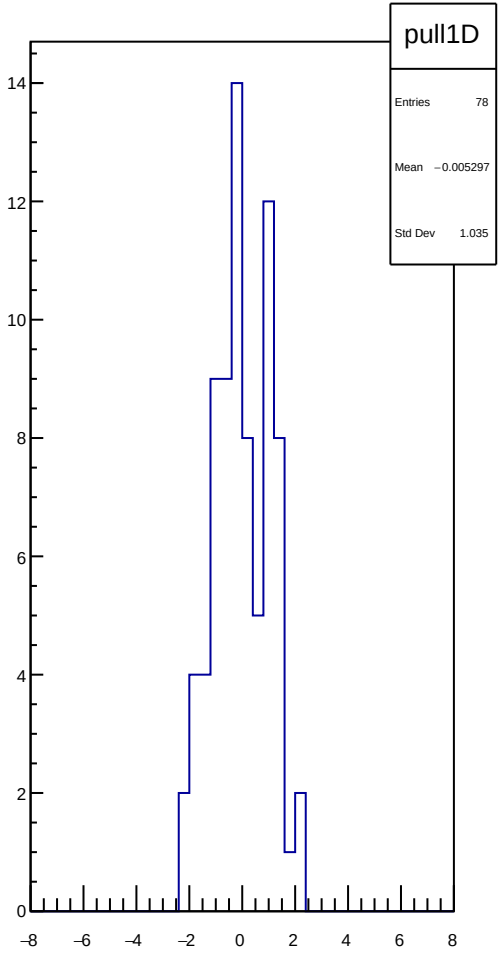

pull1D
Entries 78
Mean −0.005203
Std Dev 0.9987

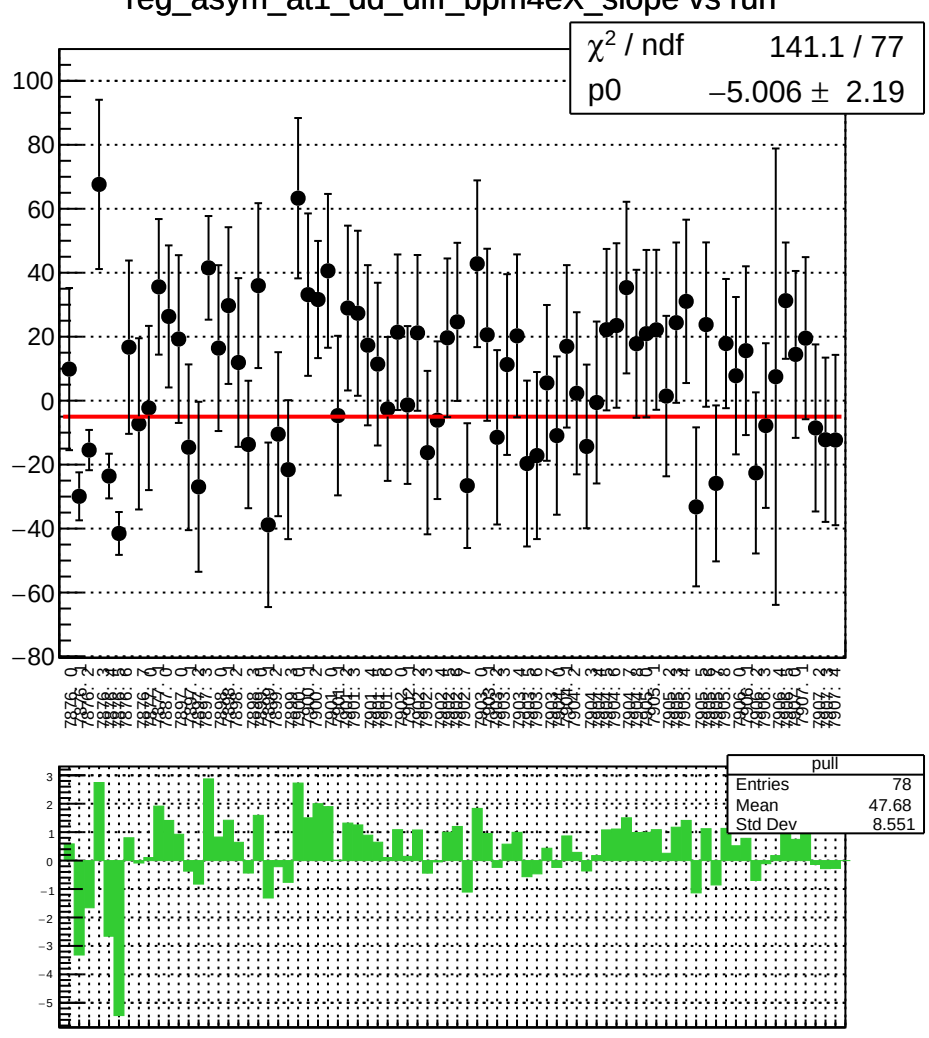

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 4435 / 77
p0 −29.13 ± 0.1271
pull
Entries 78
Mean 83.8
Std Dev 49.05
pull1D
Entries 78
Mean −0.02021
Std Dev 3.923

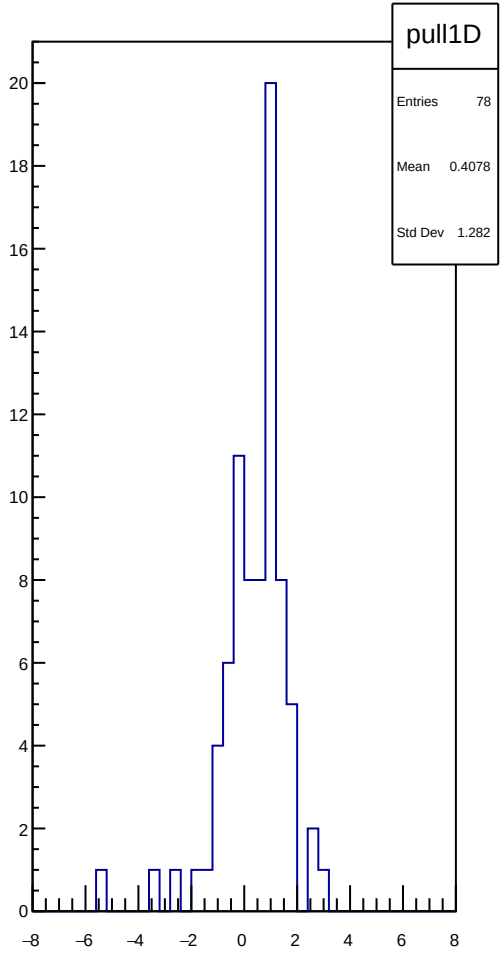

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 119.3 / 77
p0 53.42 ± 2.702
150
100
50
0
−50
pull
Entries 78
Mean 45.56
Std Dev 9.737
5
4
3
2
1
0
−1
−2
−3

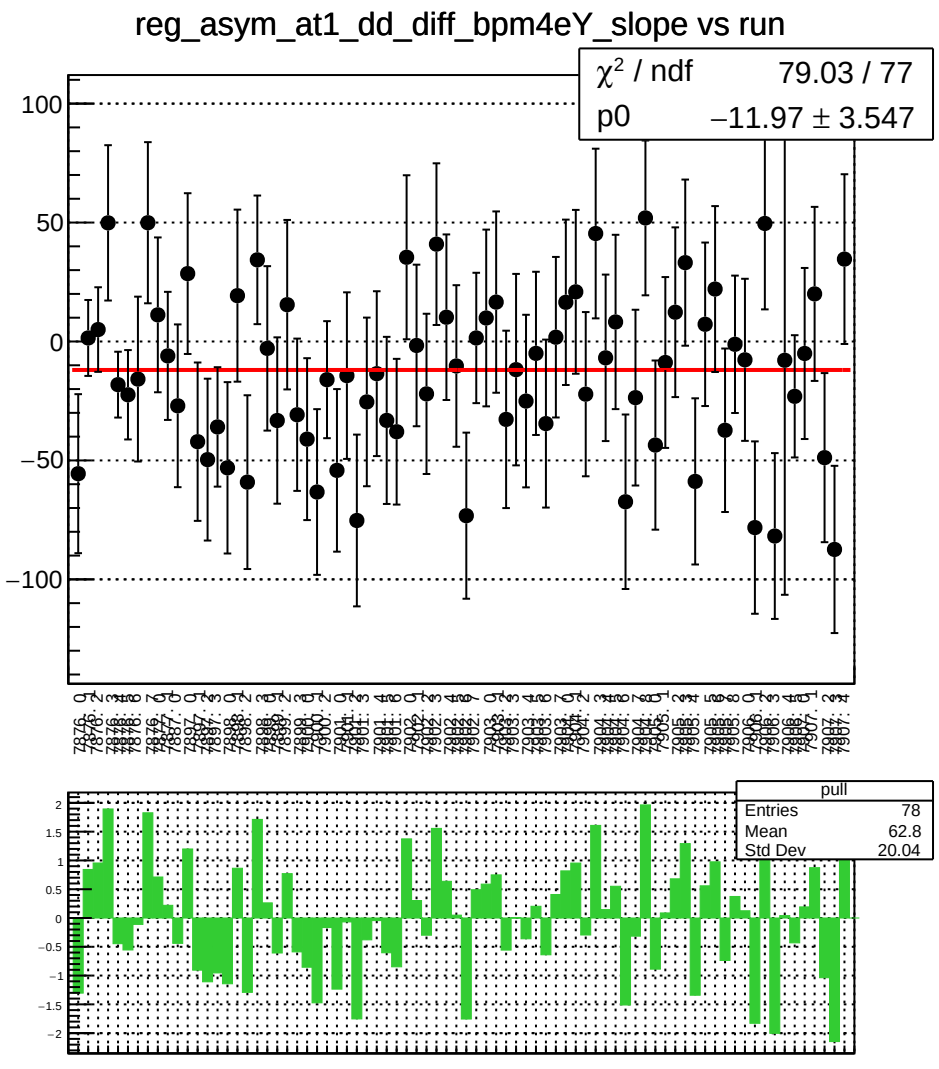

pull1D
Entries 78
Mean −0.2997
Std Dev 1.2
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

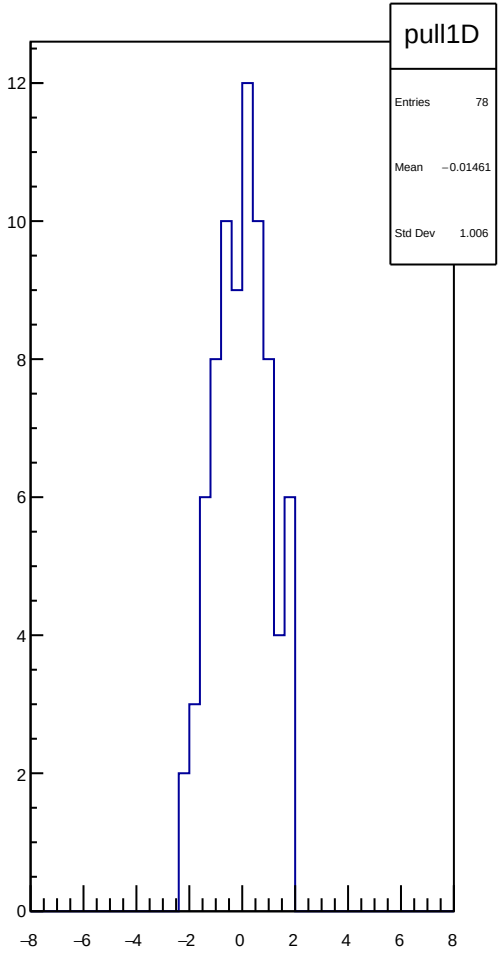

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.56 / 77
p0 −1.659 ± 2.876
pull
Entries 78
Mean 323.2
Std Dev 288.9

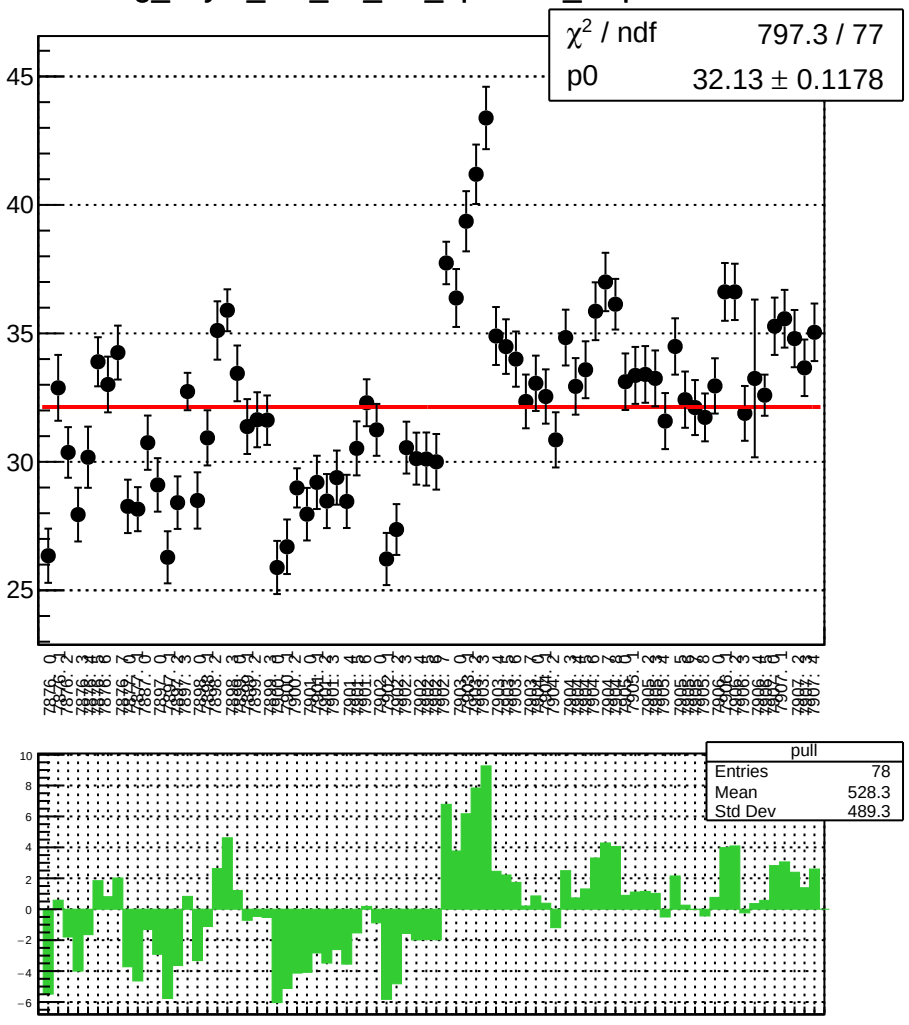

pull1D
Entries 78
Mean −0.005297
Std Dev 1.035

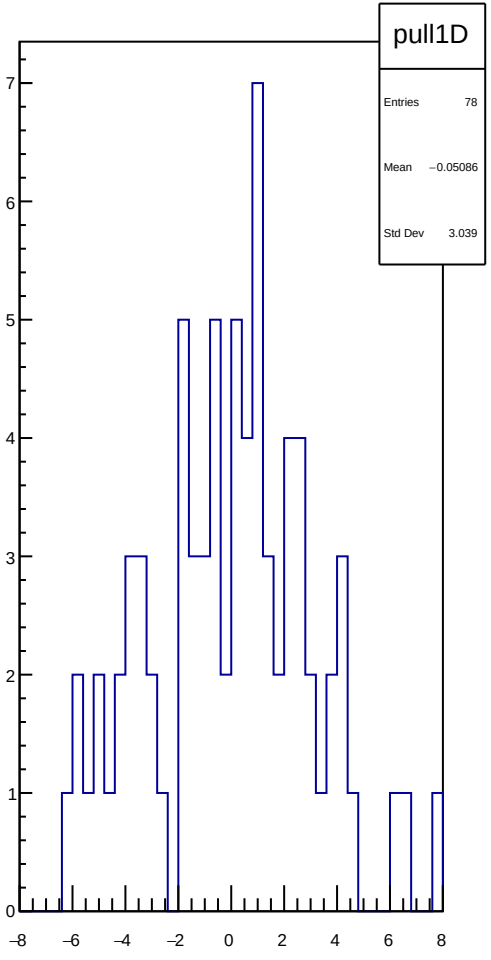

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 141.1 / 77
p0 −5.006 ± 2.19
pull
Entries 78
Mean 47.68
Std Dev 8.551

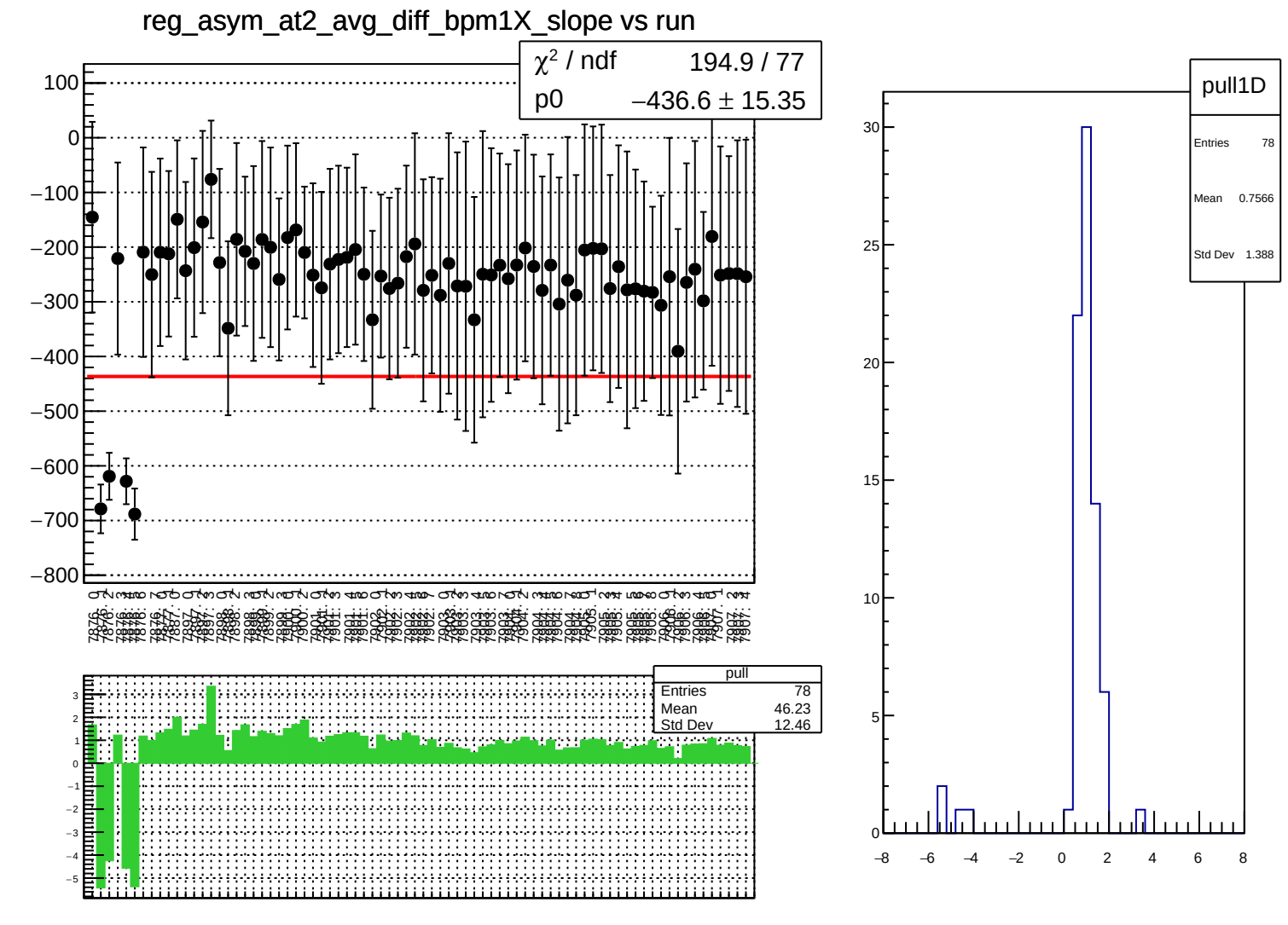

pull1D
Entries 78
Mean 0.4078
Std Dev 1.282

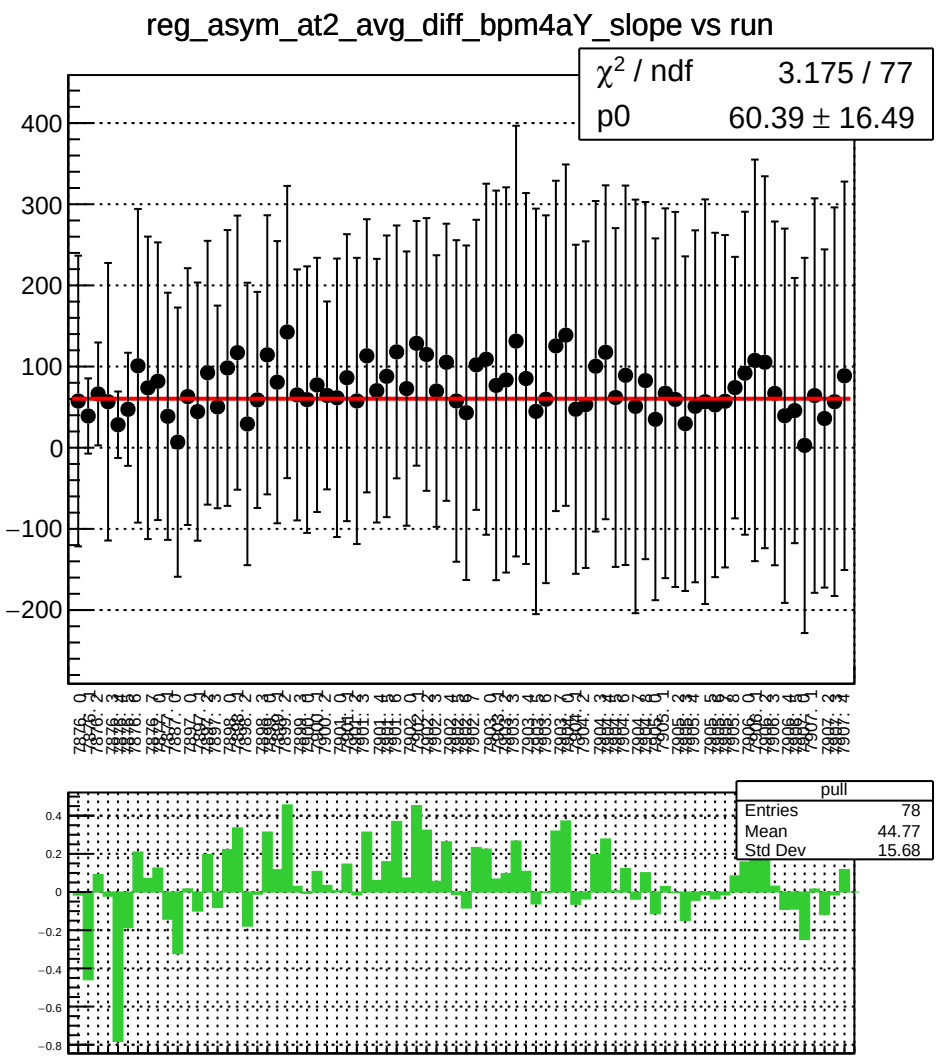

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.03 / 77
p0 −11.97 ± 3.547
pull
Entries 78
Mean 62.8
Std Dev 20.04

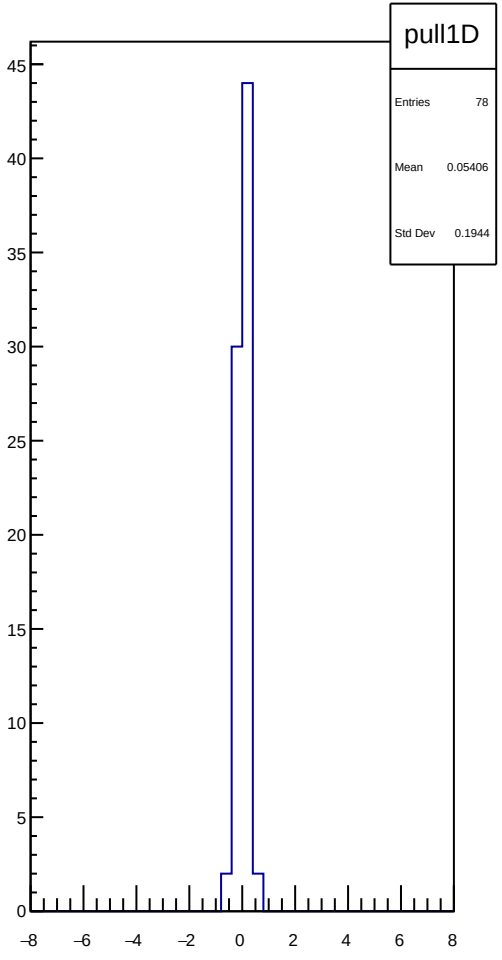

pull1D
Entries 78
Mean −0.01461
Std Dev 1.006

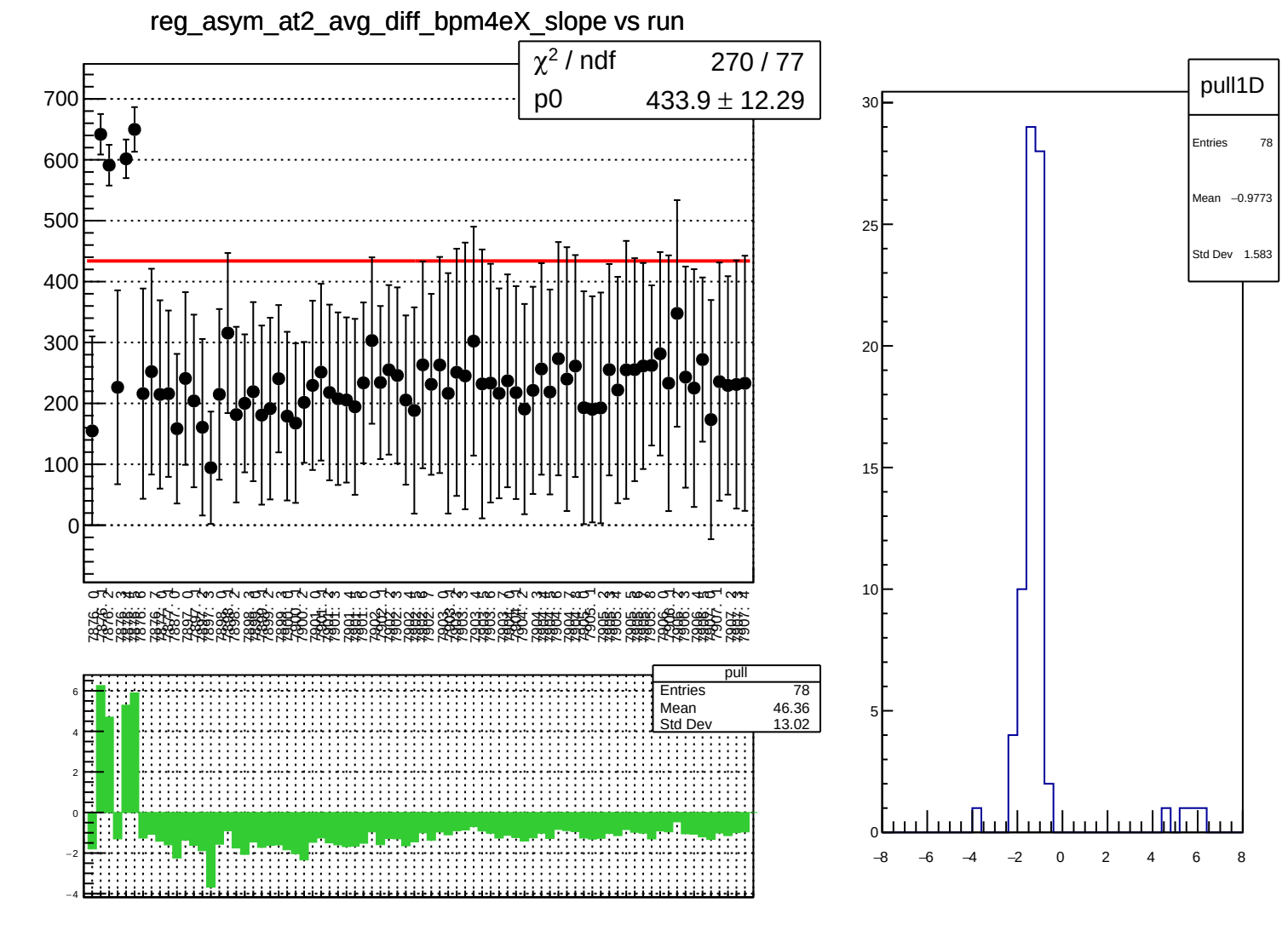

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 797.3 / 77
p0 32.13 ± 0.1178
pull
Entries 78
Mean 528.3
Std Dev 489.3

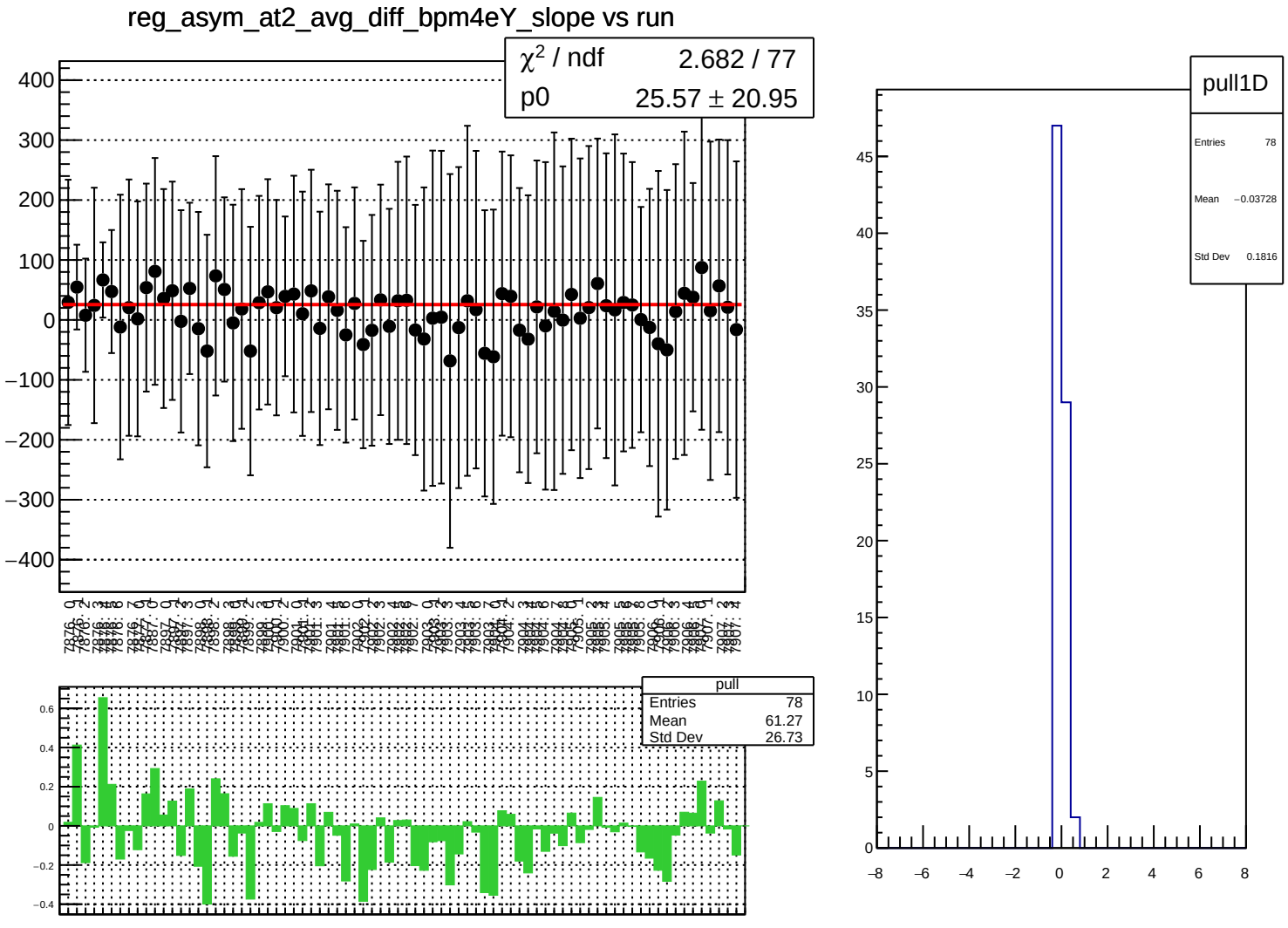

pull1D
Entries 78
Mean −0.05086
Std Dev 3.039

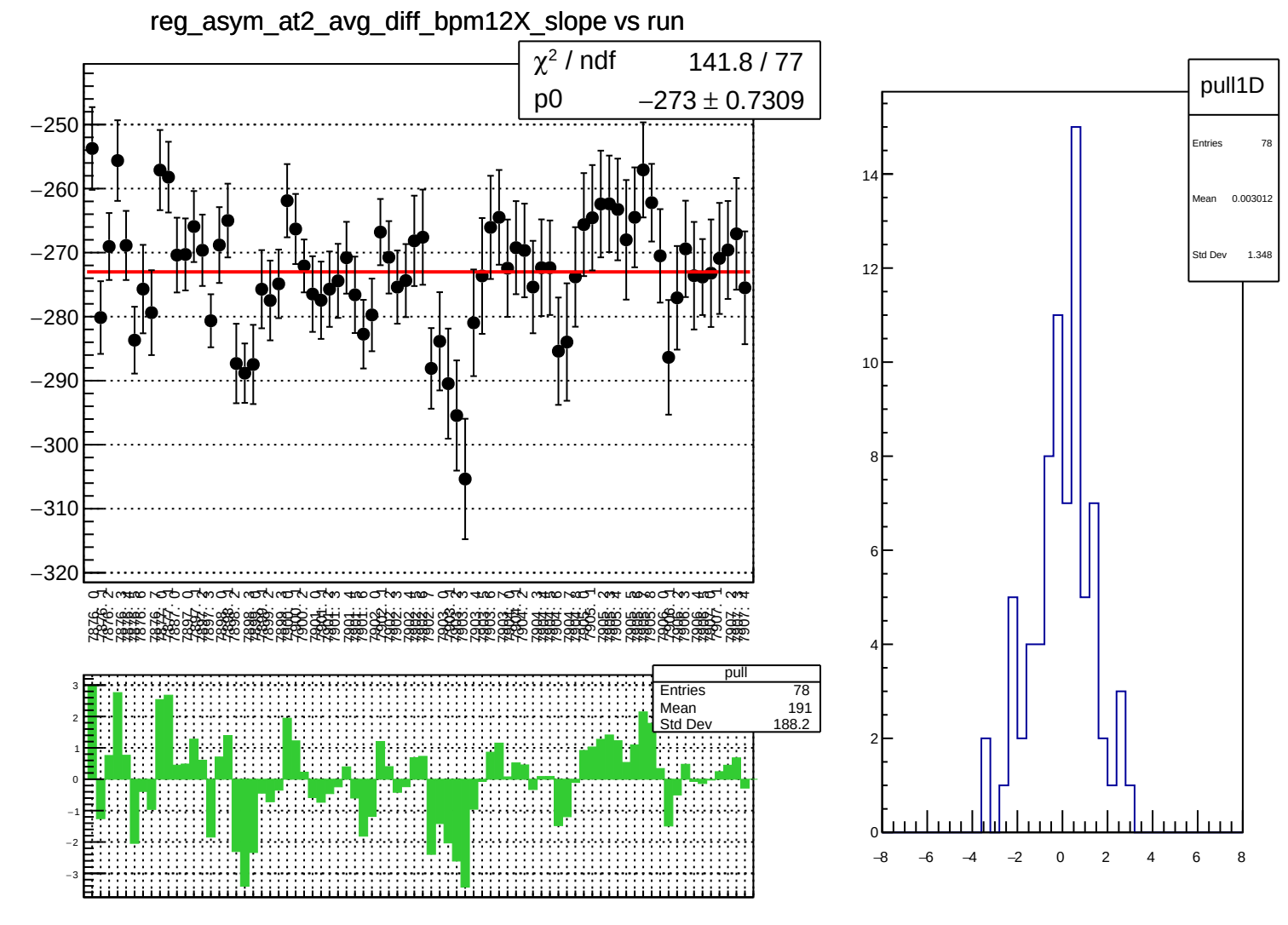

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 194.9 / 77
p0 −436.6 ± 15.35
pull
Entries 78
Mean 46.23
Std Dev 12.46
pull1D
Entries 78
Mean 0.7566
Std Dev 1.388

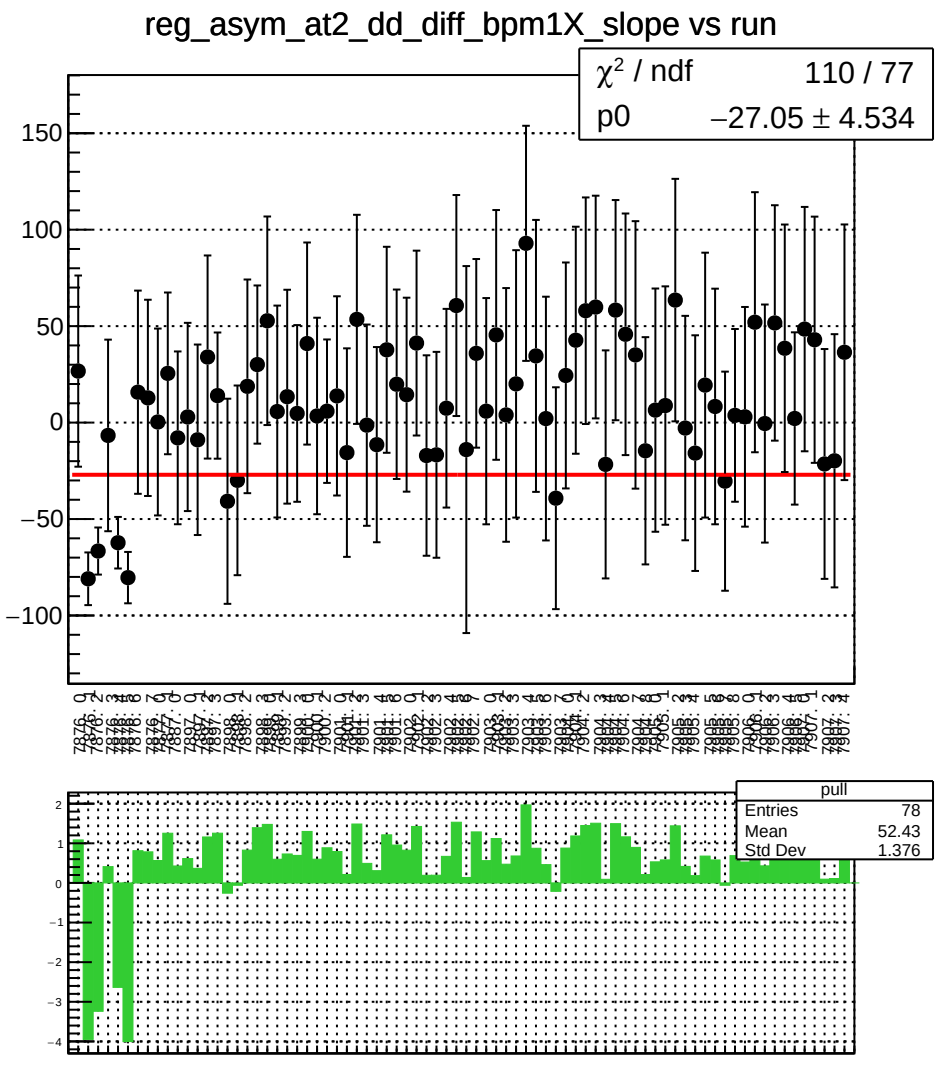

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 3.175 / 77
p0 60.39 ± 16.49
pull
Entries 78
Mean 44.77
Std Dev 15.68

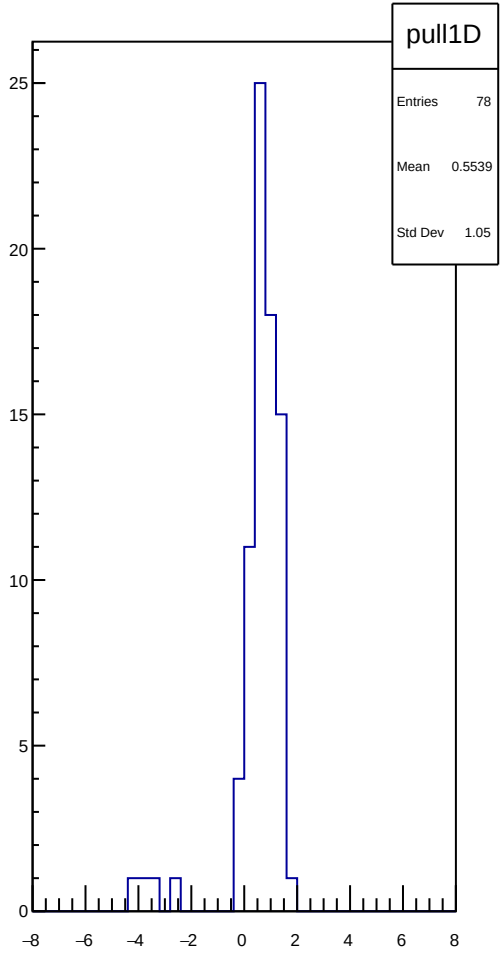

pull1D
Entries 78
Mean 0.05406
Std Dev 0.1944

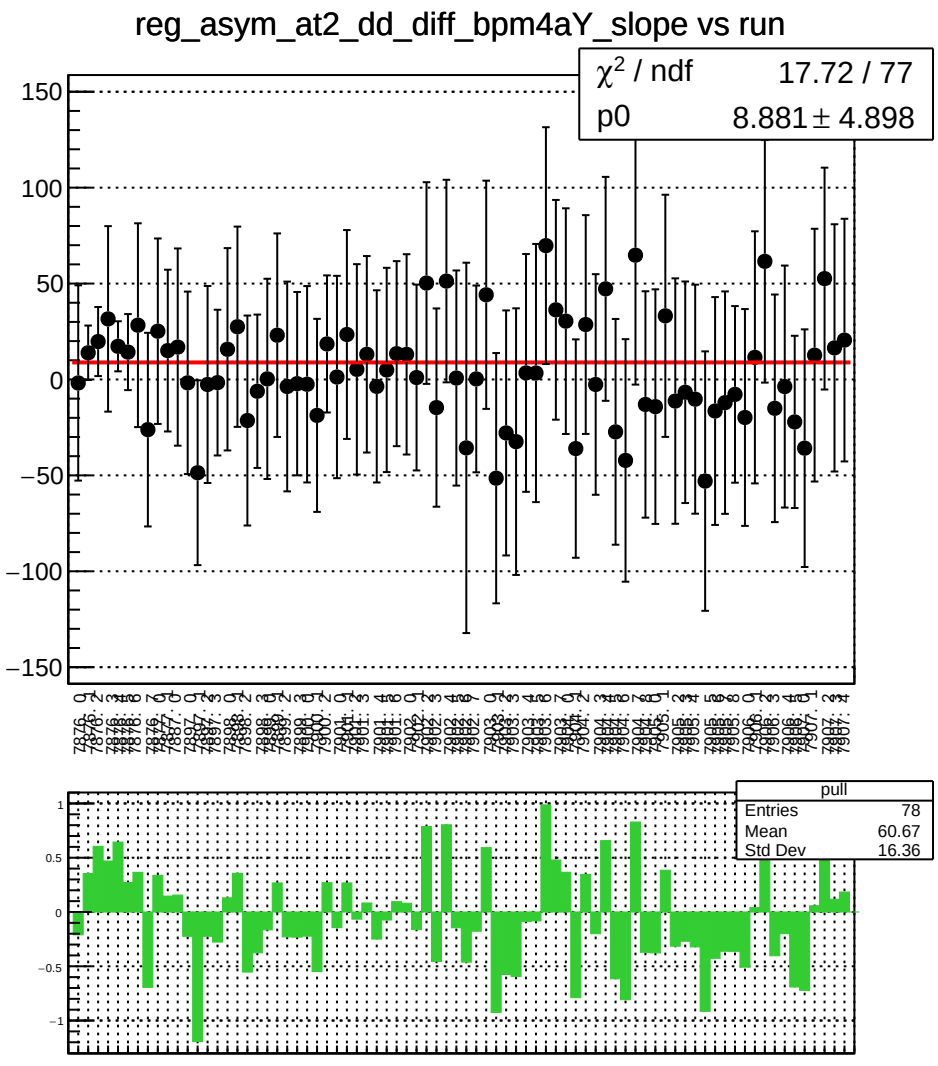

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 270 / 77
p0 433.9 ± 12.29
pull
Entries 78
Mean 46.36
Std Dev 13.02
pull1D
Entries 78
Mean −0.9773
Std Dev 1.583

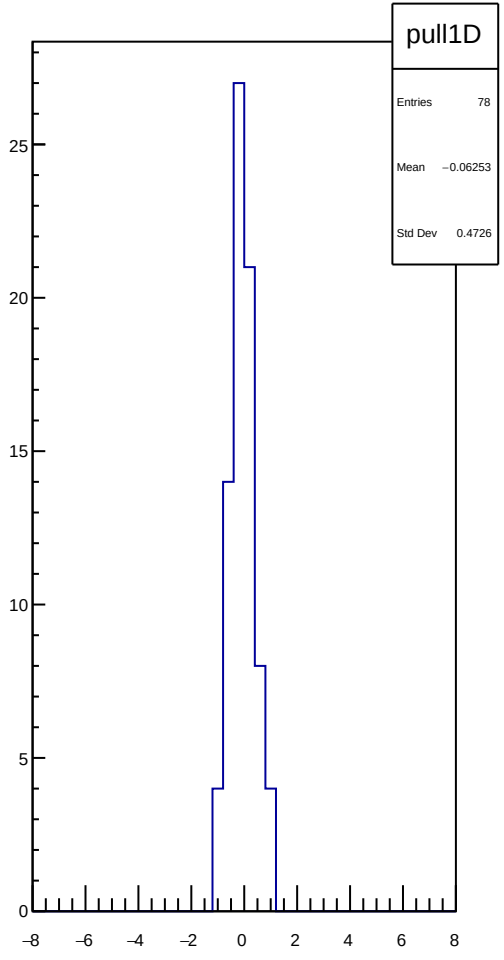

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.682 / 77
p0 25.57 ± 20.95
pull
Entries 78
Mean 61.27
Std Dev 26.73
pull1D
Entries 78
Mean −0.03728
Std Dev 0.1816

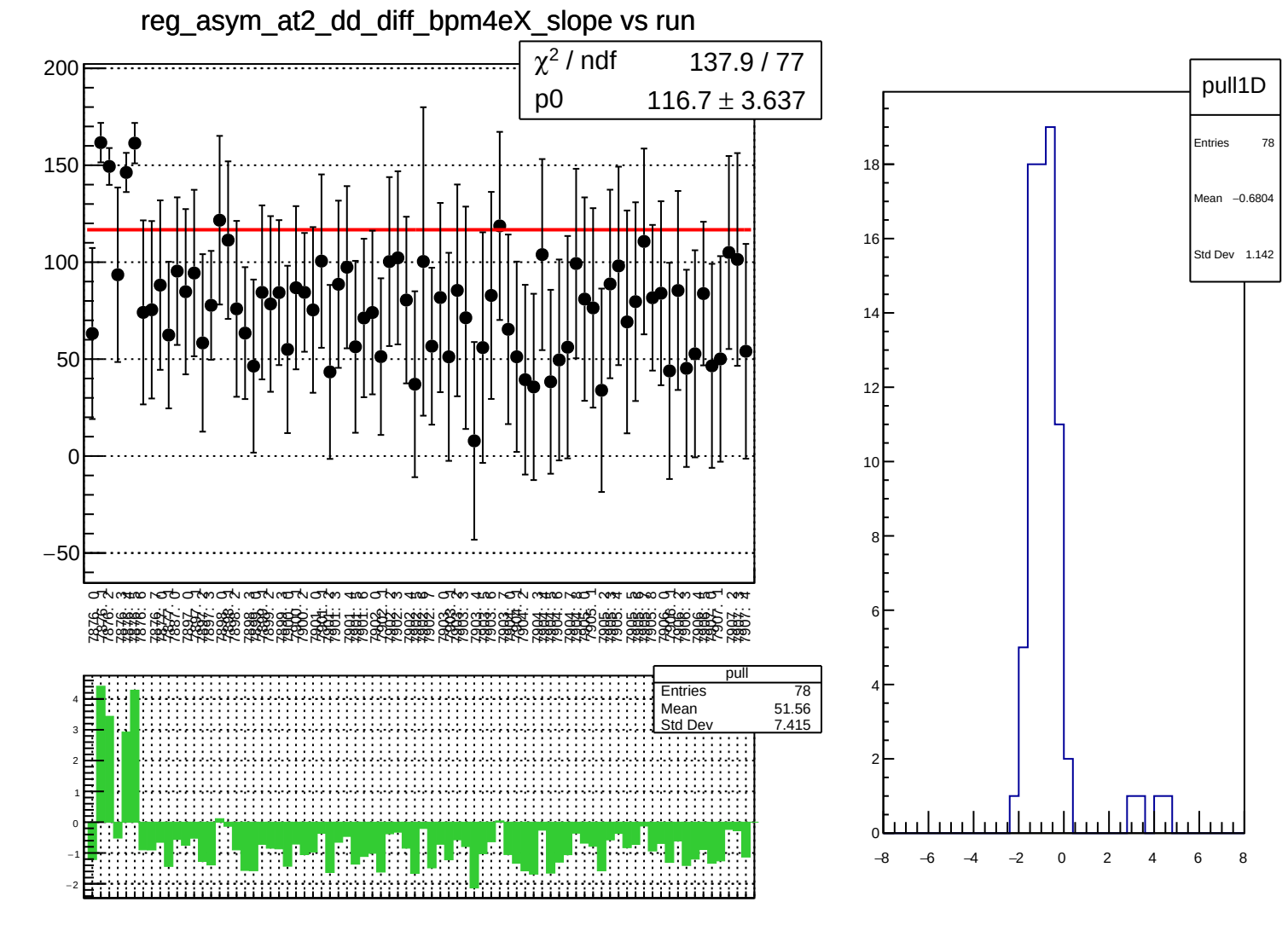

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 141.8 / 77
p0 −273 ± 0.7309
−250
−260
−270
−280
−290
−300
−310
−320
pull
Entries 78
Mean 191
Std Dev 188.2
3
2
1
0
−1
−2
−3
pull1D
Entries 78
Mean 0.003012
Std Dev 1.348
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

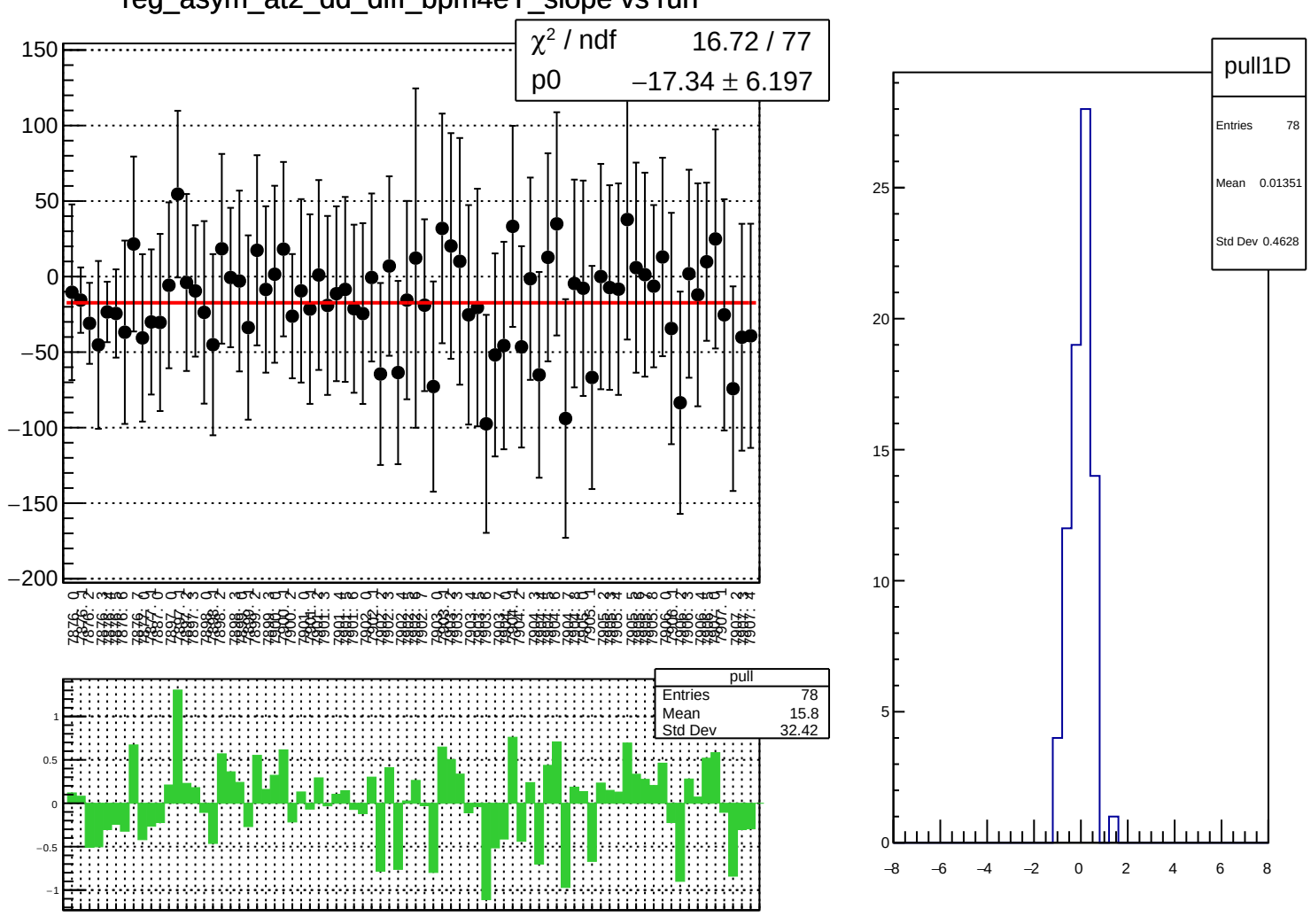

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 110 / 77
p0 −27.05 ± 4.534
150
100
50
0
−50
−100
pull
Entries 78
Mean 52.43
Std Dev 1.376
2
1
0
−1
−2
−3
−4

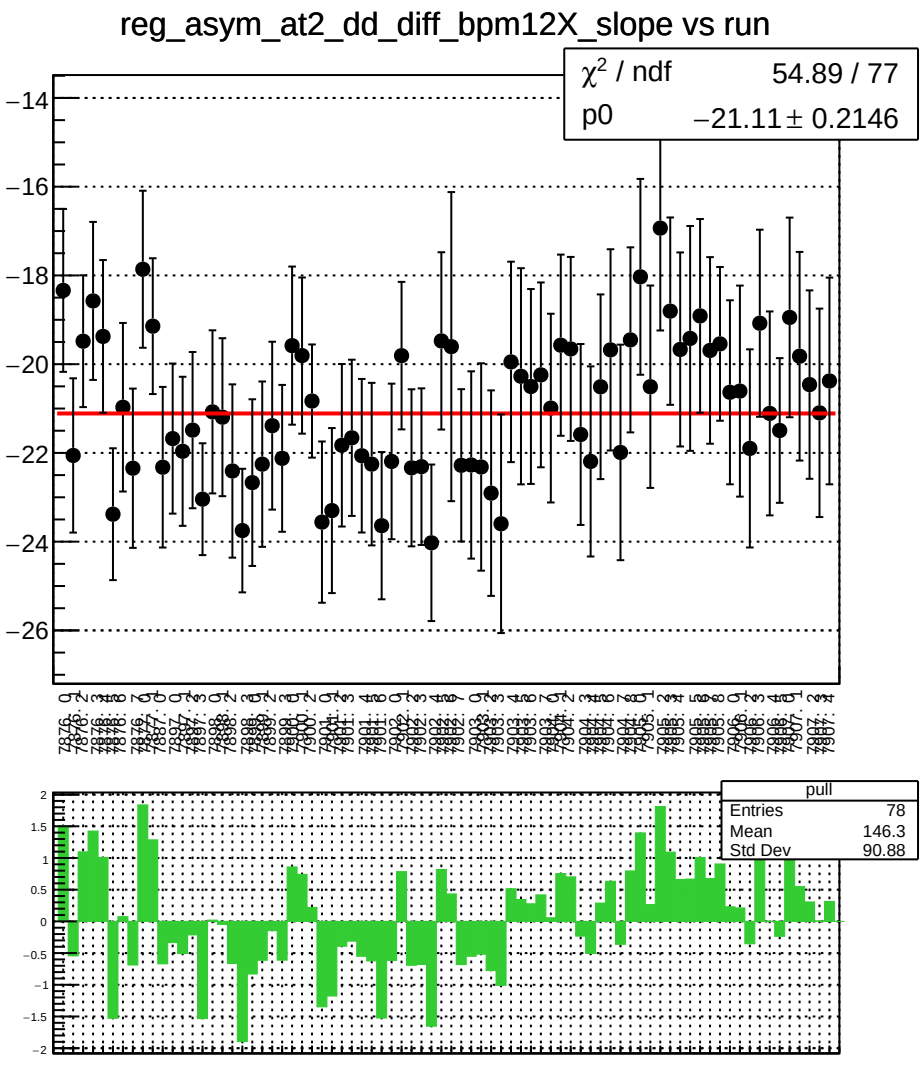

pull1D
Entries 78
Mean 0.5539
Std Dev 1.05
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

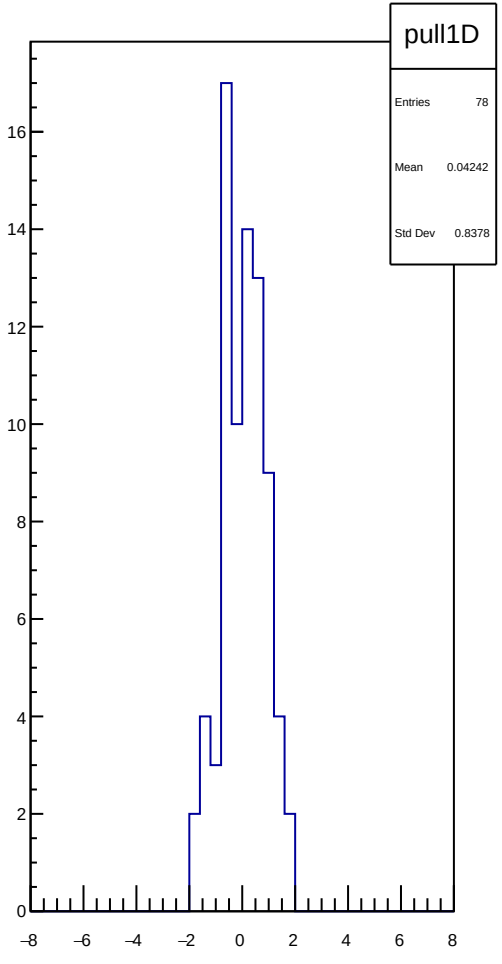

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.72 / 77
p0 8.881 ± 4.898
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 60.67
Std Dev 16.36
1
0.5
0
−0.5
−1

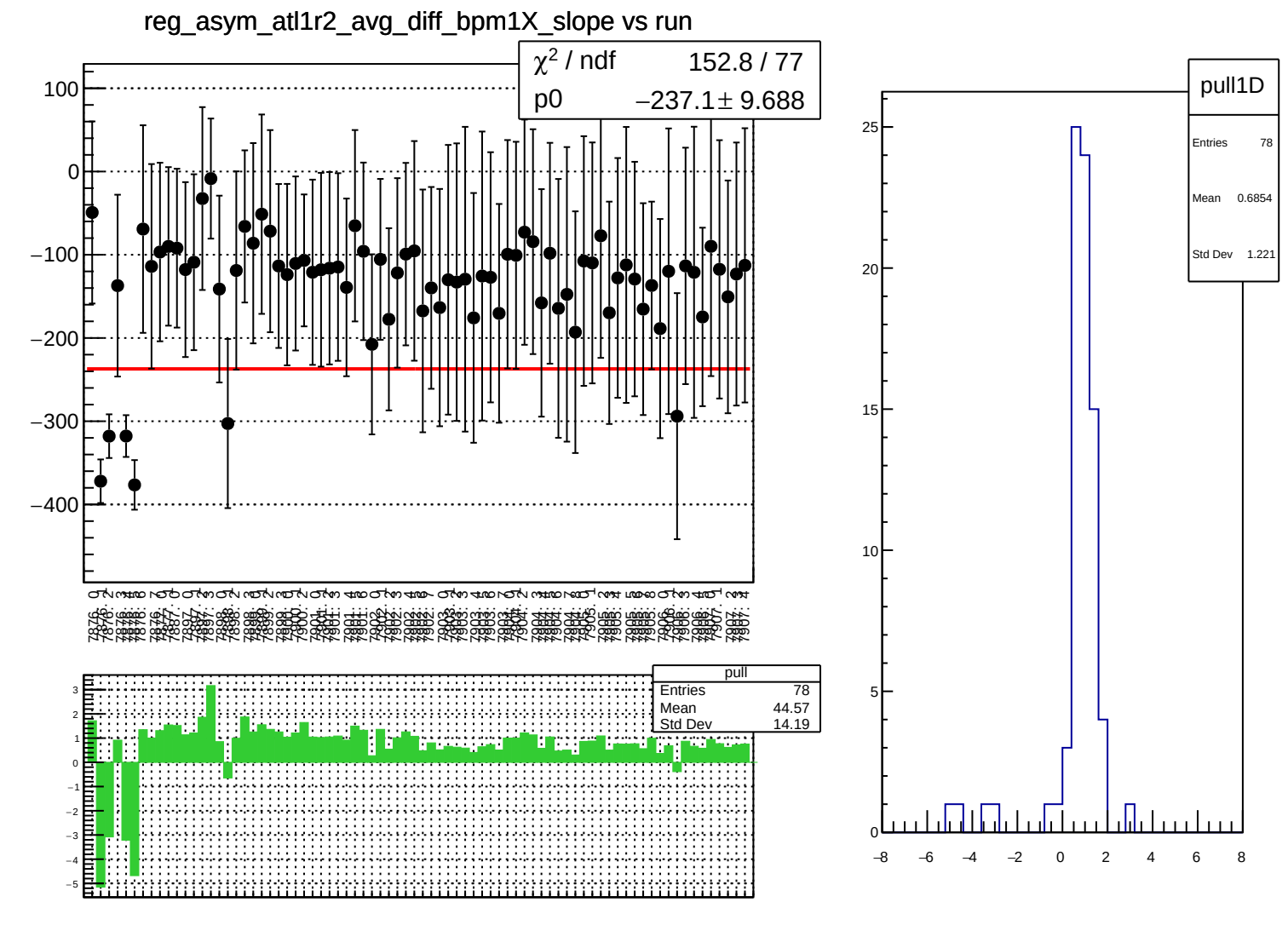

pull1D
Entries 78
Mean −0.06253
Std Dev 0.4726
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

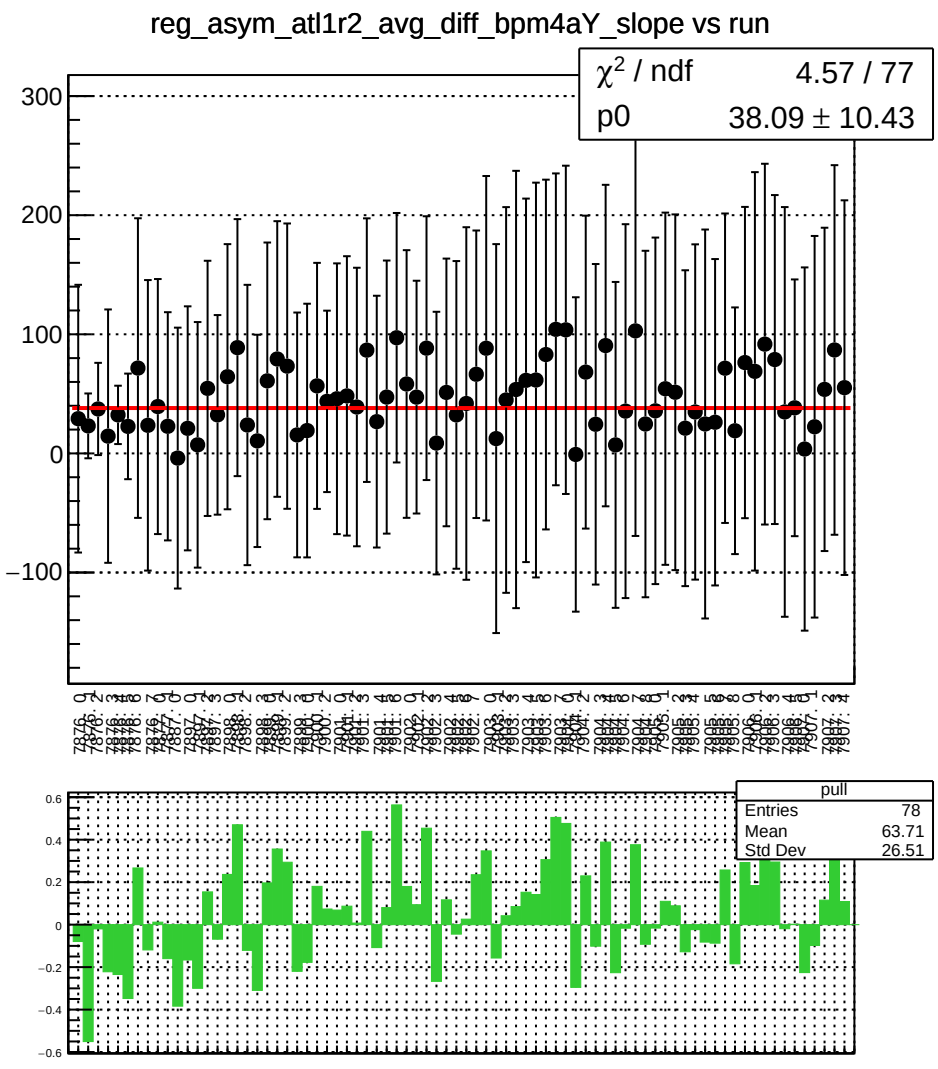

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 137.9 / 77
p0 116.7 ± 3.637
pull
Entries 78
Mean 51.56
Std Dev 7.415
pull1D
Entries 78
Mean −0.6804
Std Dev 1.142

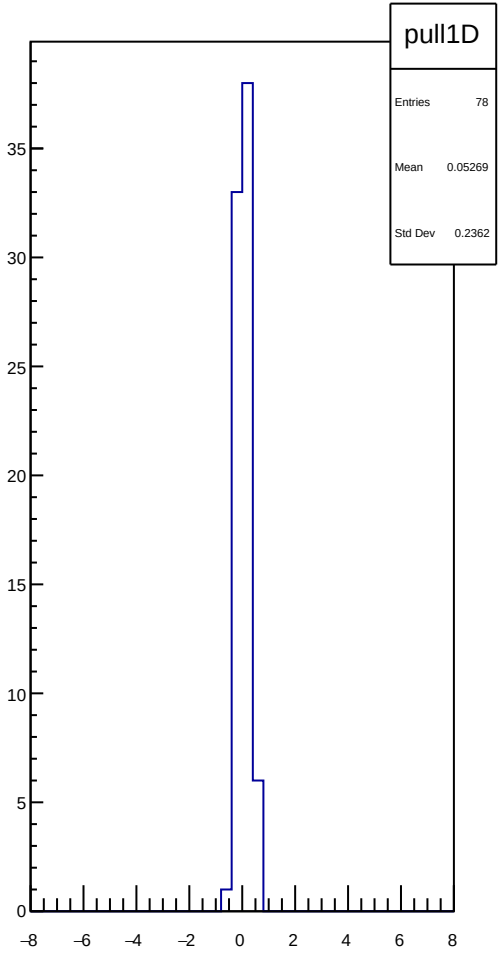

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.72 / 77
p0 −17.34 ± 6.197
150
100
50
0
−50
−100
−150
−200
pull
Entries 78
Mean 15.8
Std Dev 32.42
1
0.5
0
−0.5
−1
pull1D
Entries 78
Mean 0.01351
Std Dev 0.4628
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

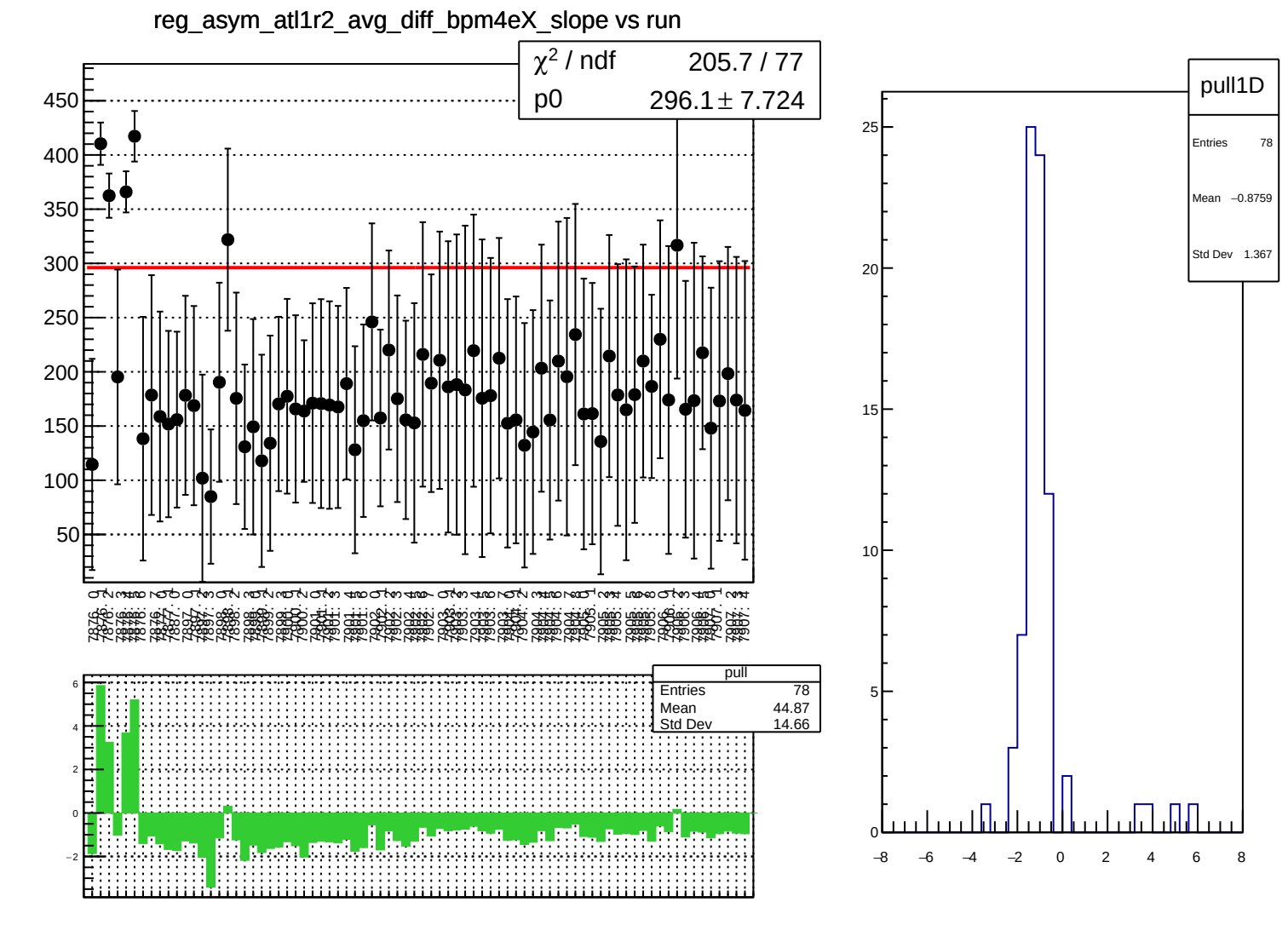

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 54.89 / 77
p0 −21.11 ± 0.2146
pull
Entries 78
Mean 146.3
Std Dev 90.88

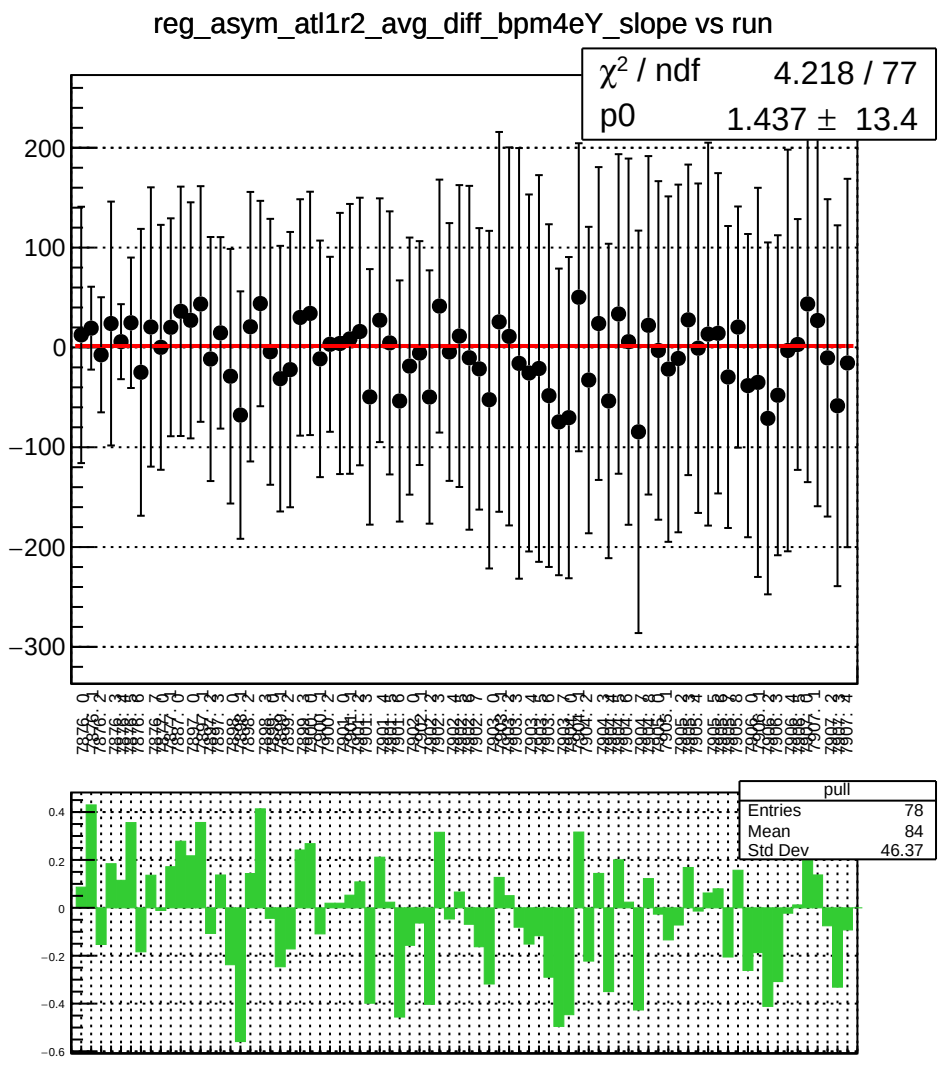

pull1D
Entries 78
Mean 0.04242
Std Dev 0.8378

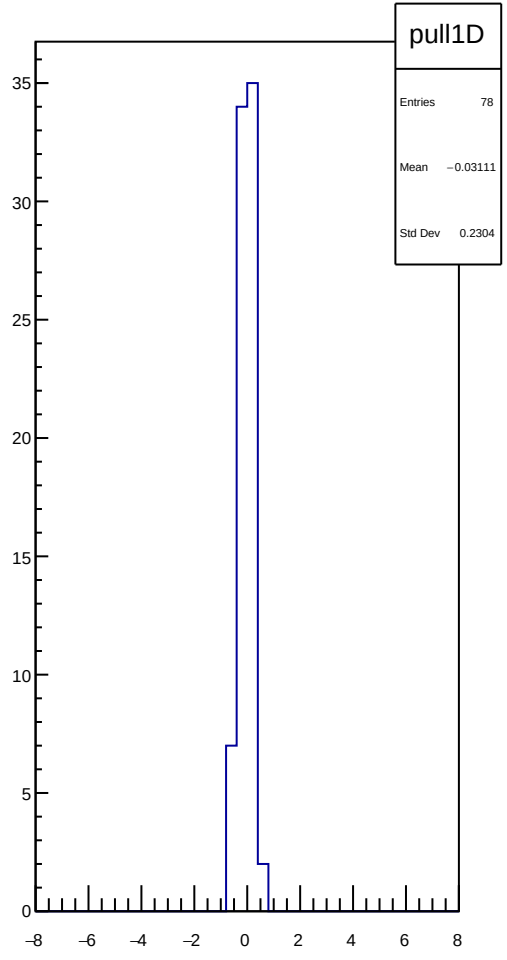

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 152.8 / 77
p0 −237.1± 9.688
pull
Entries 78
Mean 44.57
Std Dev 14.19
pull1D
Entries 78
Mean 0.6854
Std Dev 1.221

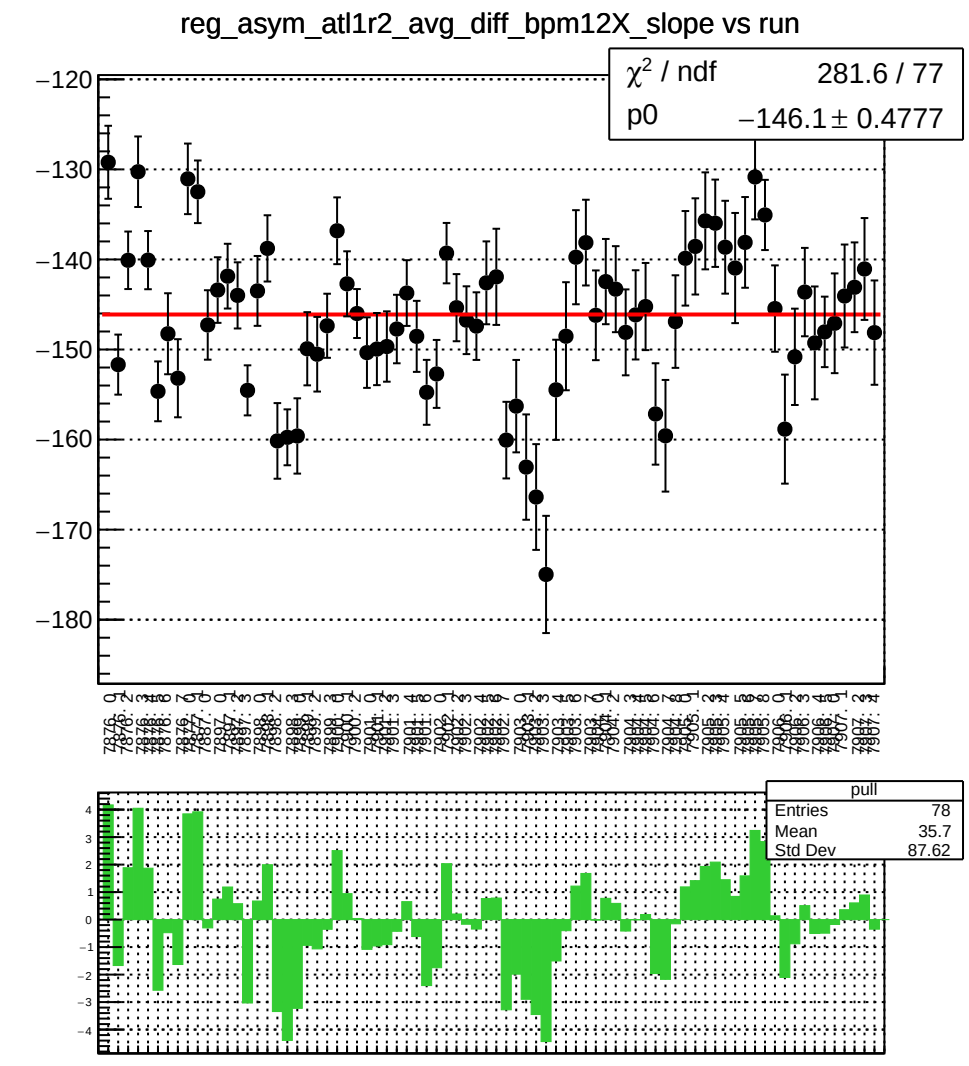

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.57 / 77
p0 38.09 ± 10.43
pull
Entries 78
Mean 63.71
Std Dev 26.51

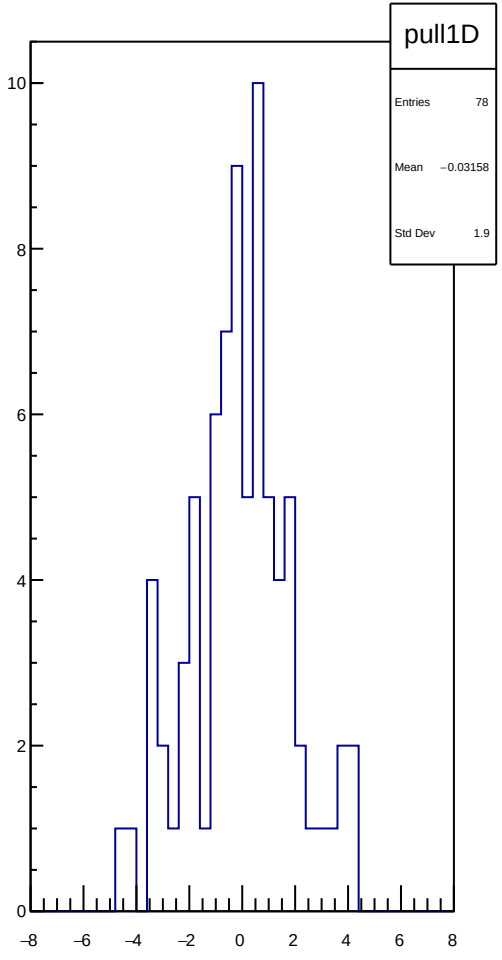

pull1D
Entries 78
Mean 0.05269
Std Dev 0.2362

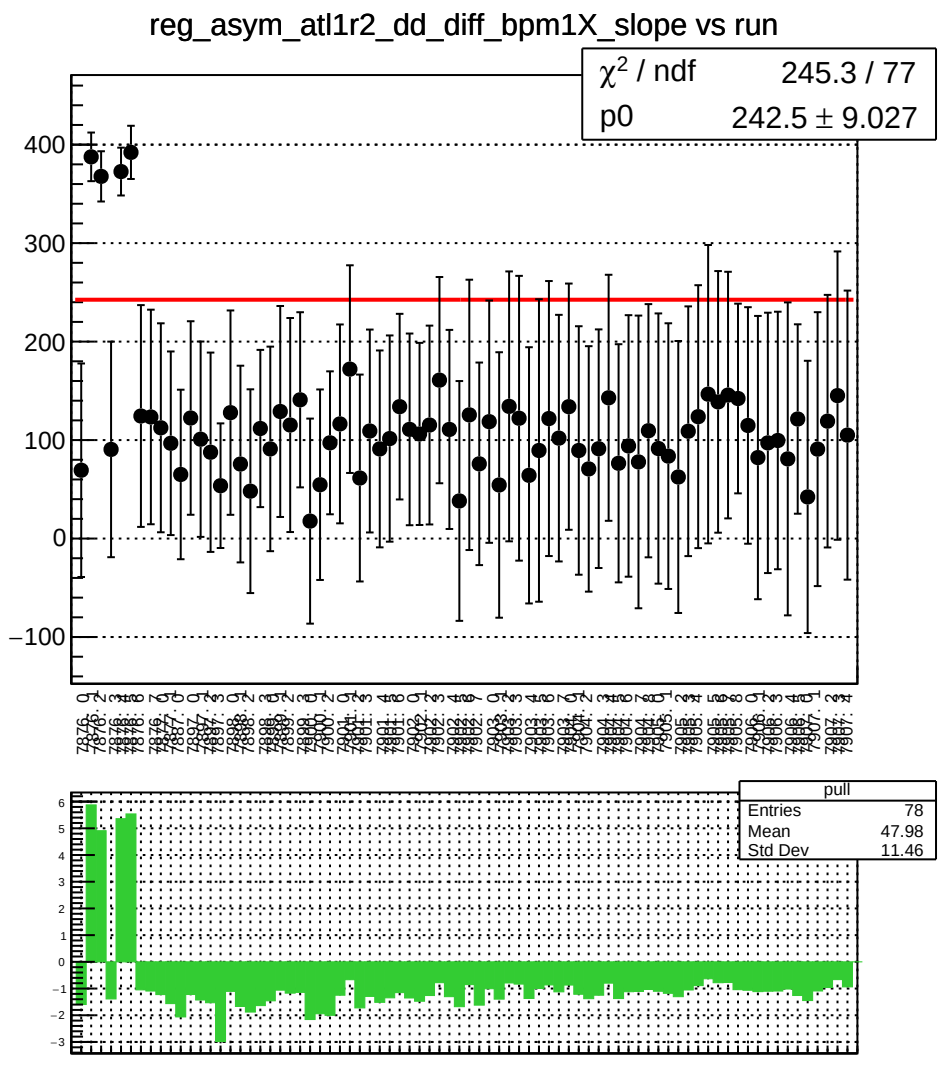

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 205.7 / 77
p0 296.1 ± 7.724
pull
Entries 78
Mean 44.87
Std Dev 14.66
pull1D
Entries 78
Mean −0.8759
Std Dev 1.367

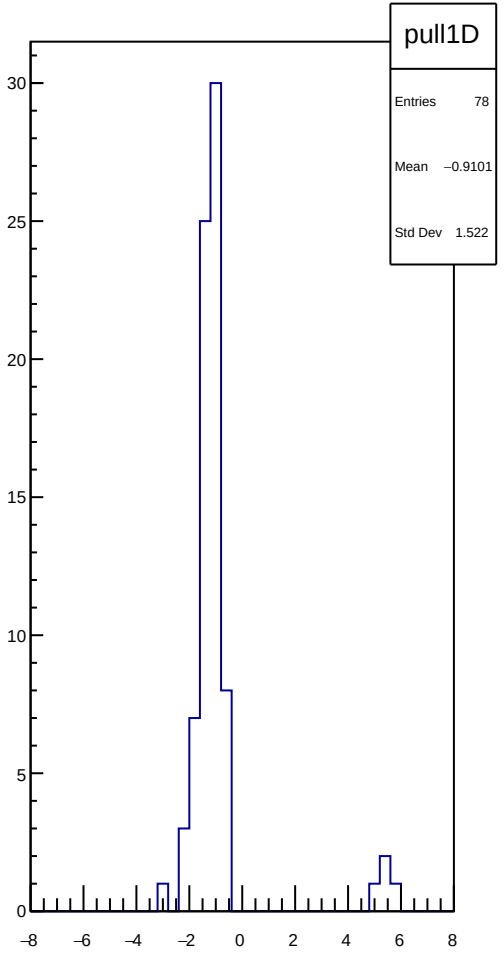

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.218 / 77
p0 1.437 ± 13.4
200
100
0
−100
−200
−300
pull
Entries 78
Mean 84
Std Dev 46.37
0.4
0.2
0
−0.2
−0.4
−0.6

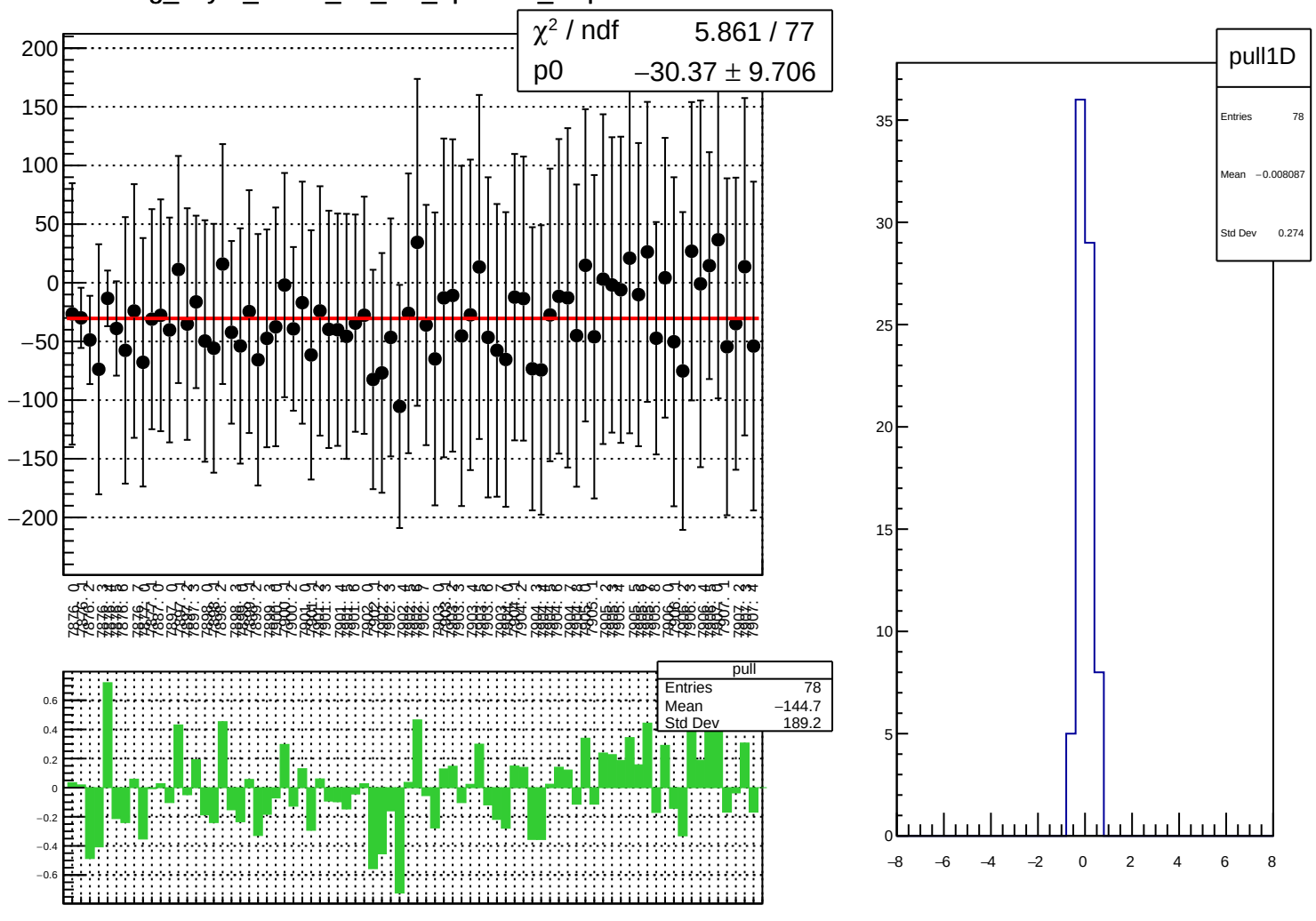

pull1D
Entries 78
Mean −0.03111
Std Dev 0.2304
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

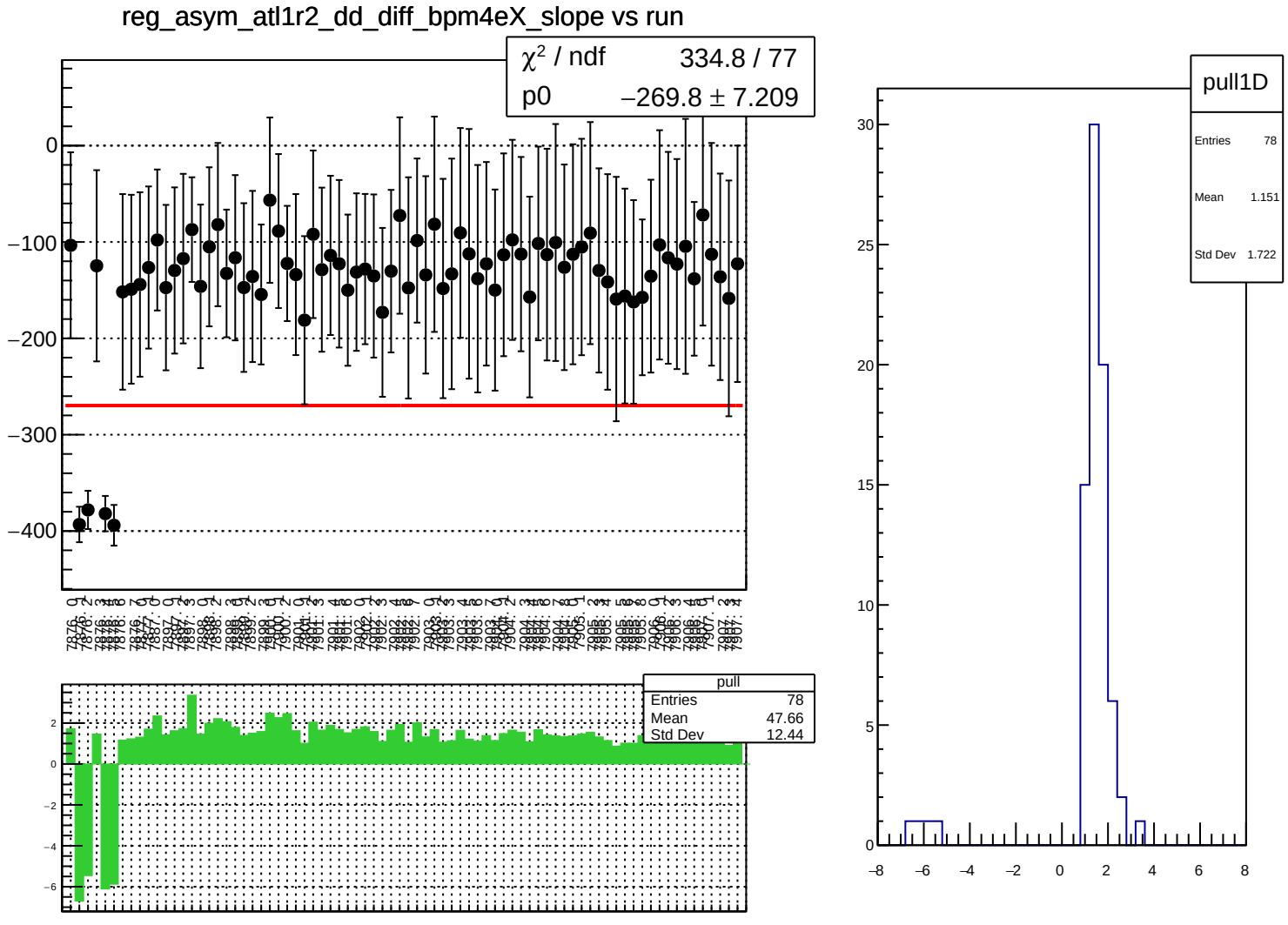

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 281.6 / 77
p0 −146.1 ± 0.4777
pull
Entries 78
Mean 35.7
Std Dev 87.62

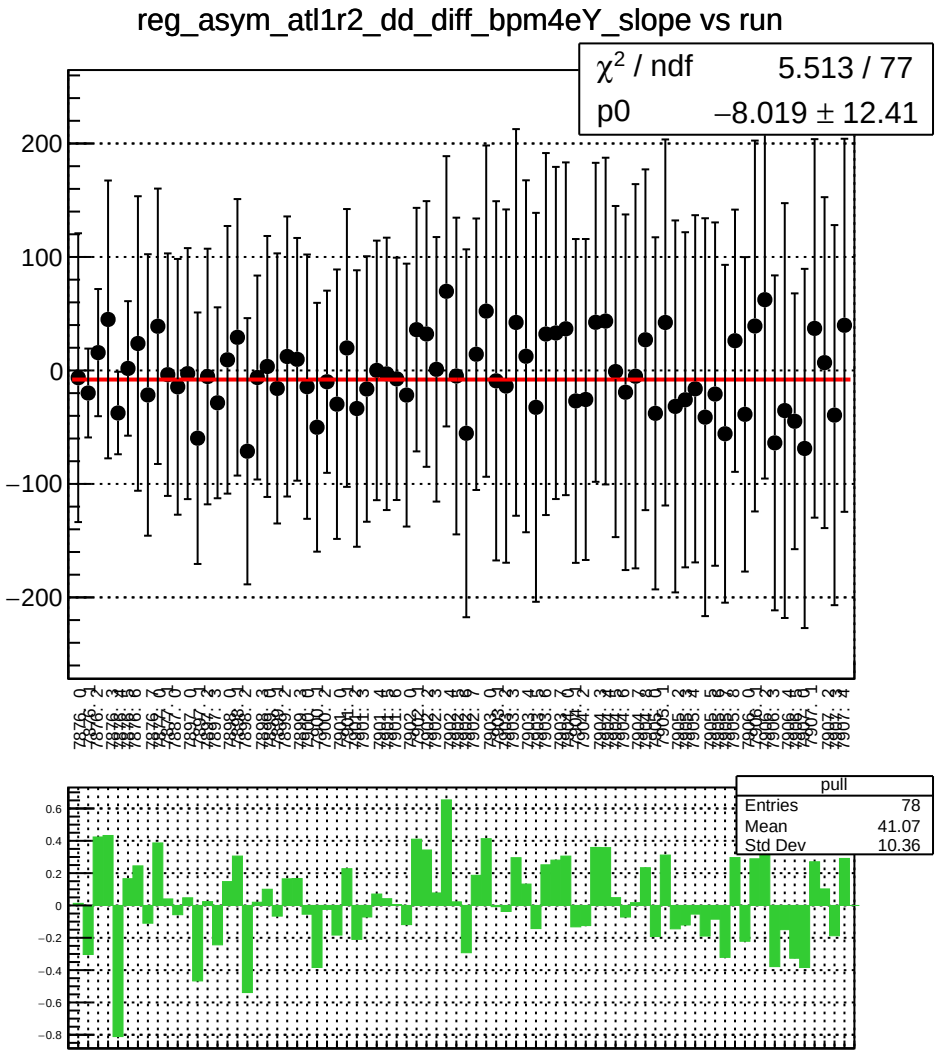

pull1D
Entries 78
Mean −0.03158
Std Dev 1.9

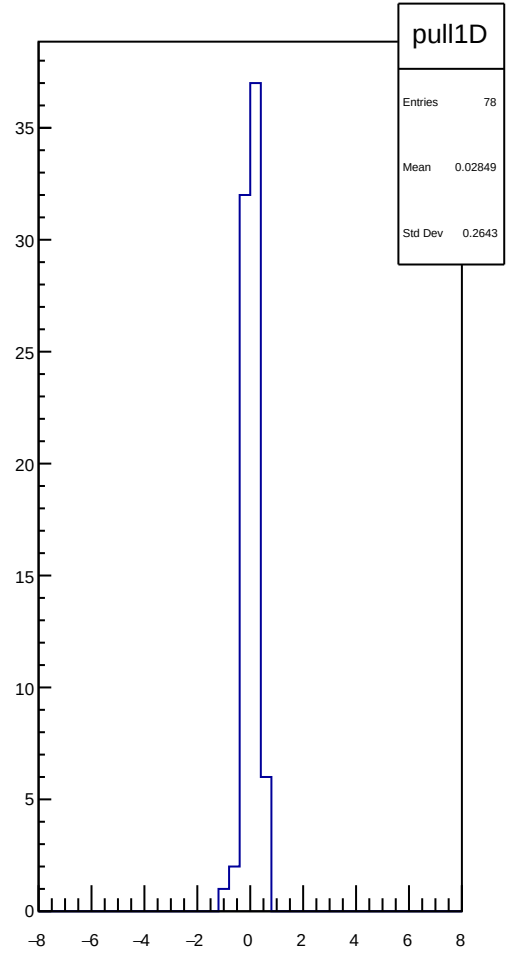

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 245.3 / 77
p0 242.5 ± 9.027
pull
Entries 78
Mean 47.98
Std Dev 11.46

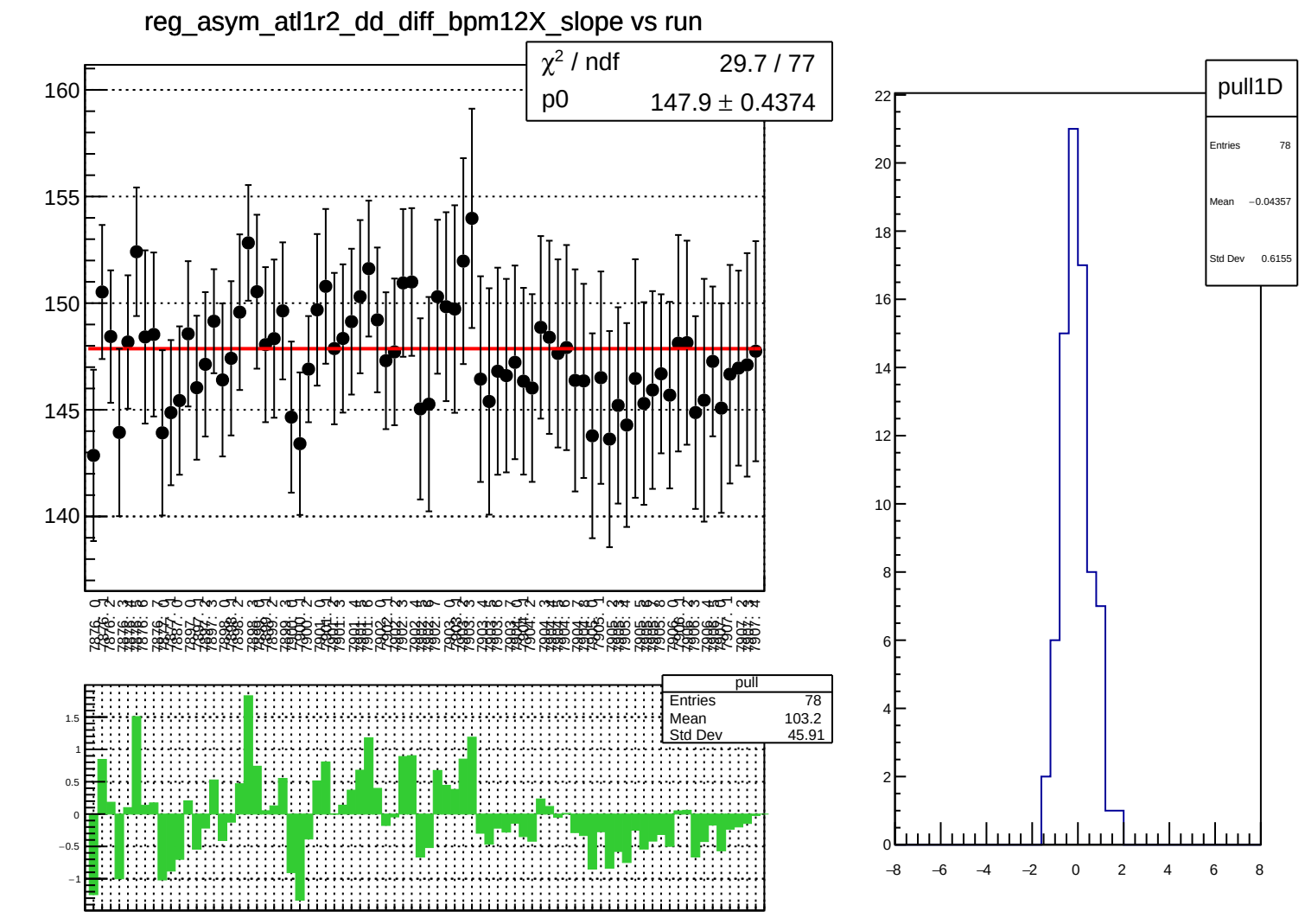

pull1D
Entries 78
Mean −0.9101
Std Dev 1.522

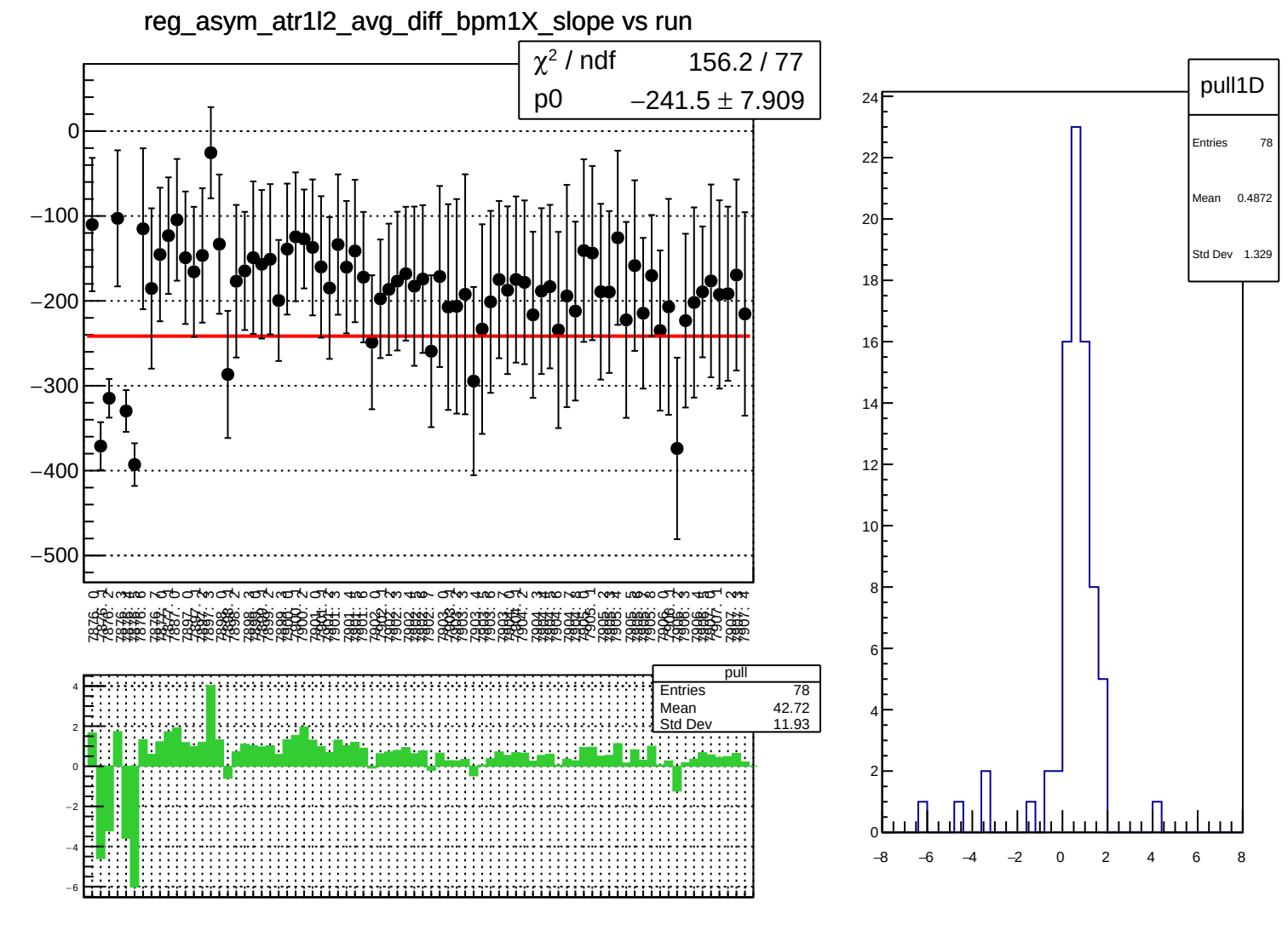

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.861 / 77
p0 −30.37 ± 9.706
pull
Entries 78
Mean −144.7
Std Dev 189.2
pull1D
Entries 78
Mean −0.008087
Std Dev 0.274

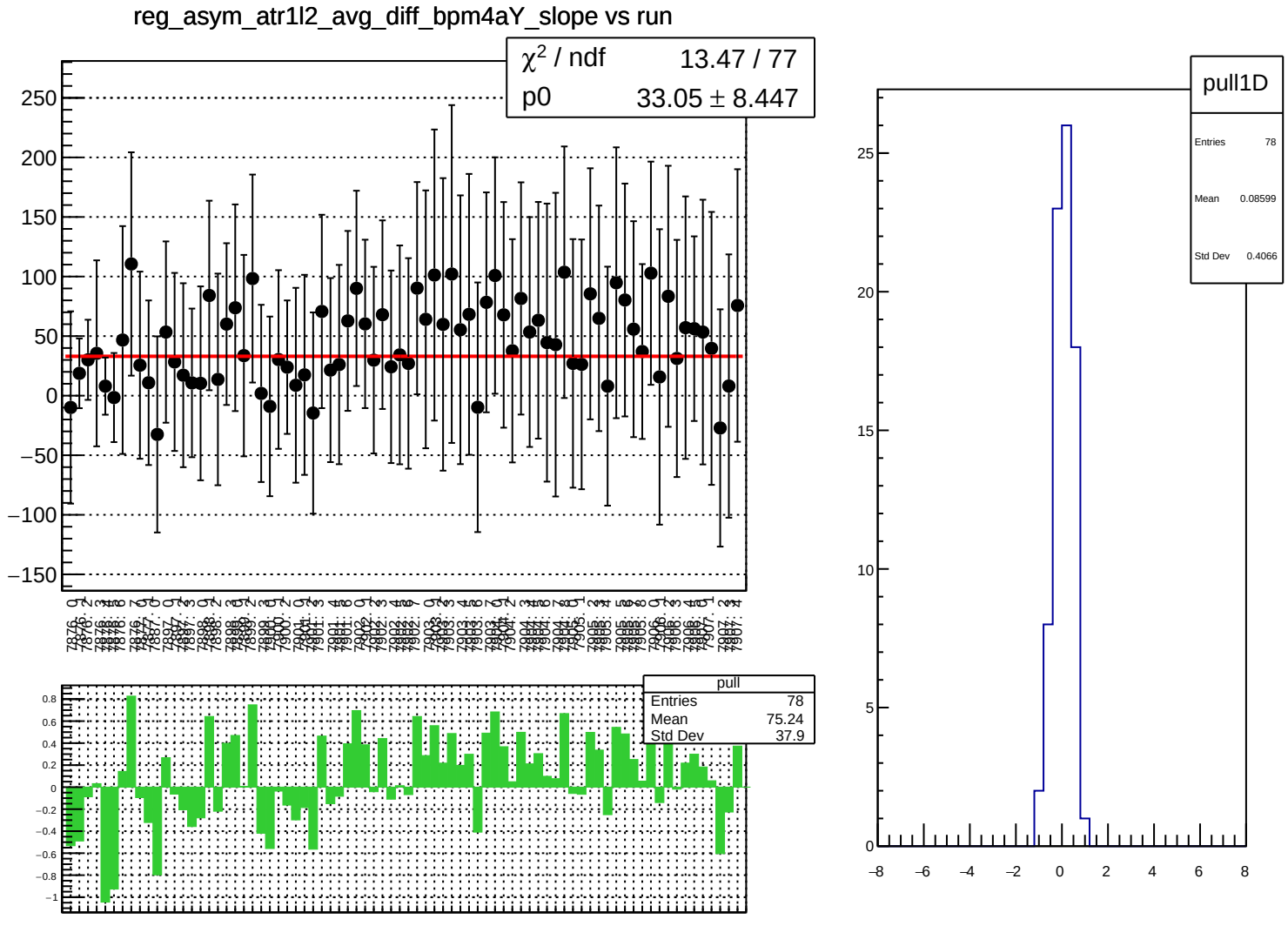

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 334.8 / 77
p0 −269.8 ± 7.209
0
−100
−200
−300
−400
pull
Entries 78
Mean 47.66
Std Dev 12.44
2
0
−2
−4
−6
pull1D
Entries 78
Mean 1.151
Std Dev 1.722
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

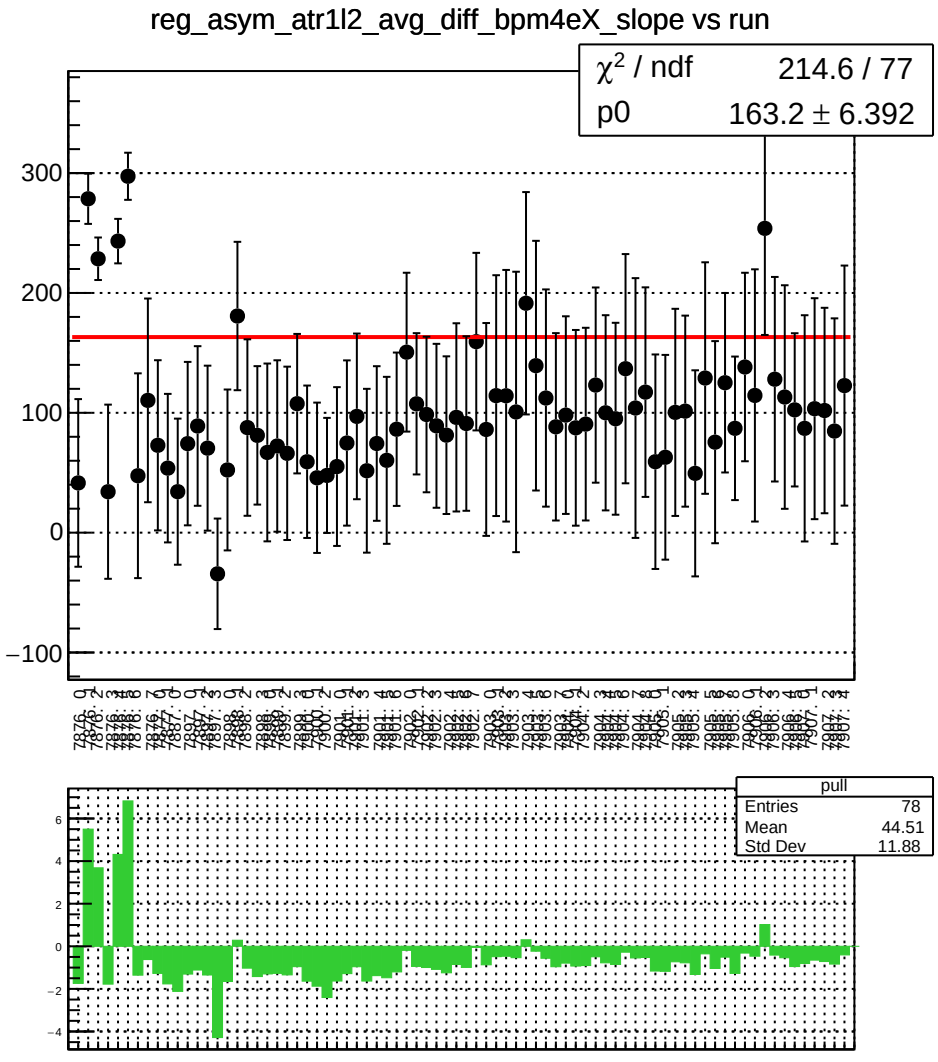

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.513 / 77
p0 −8.019 ± 12.41
pull
Entries 78
Mean 41.07
Std Dev 10.36

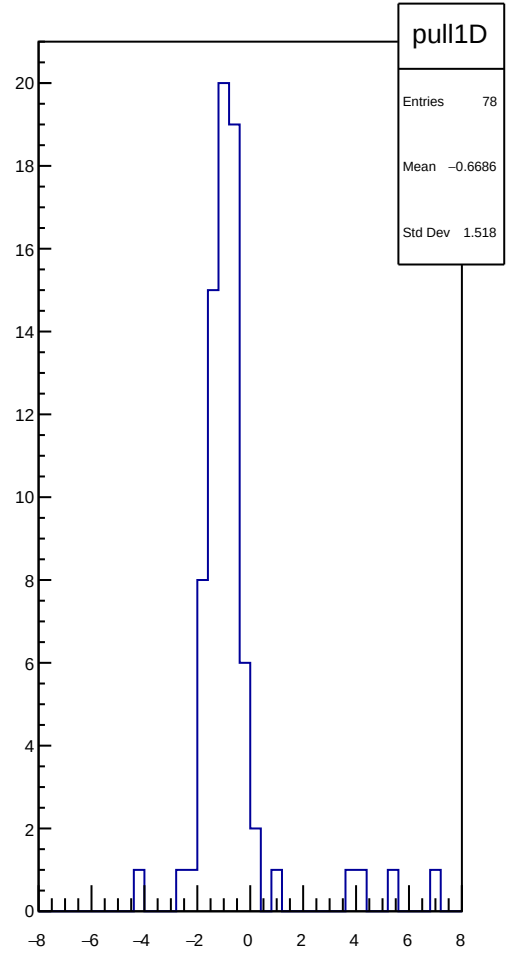

pull1D
Entries 78
Mean 0.02849
Std Dev 0.2643

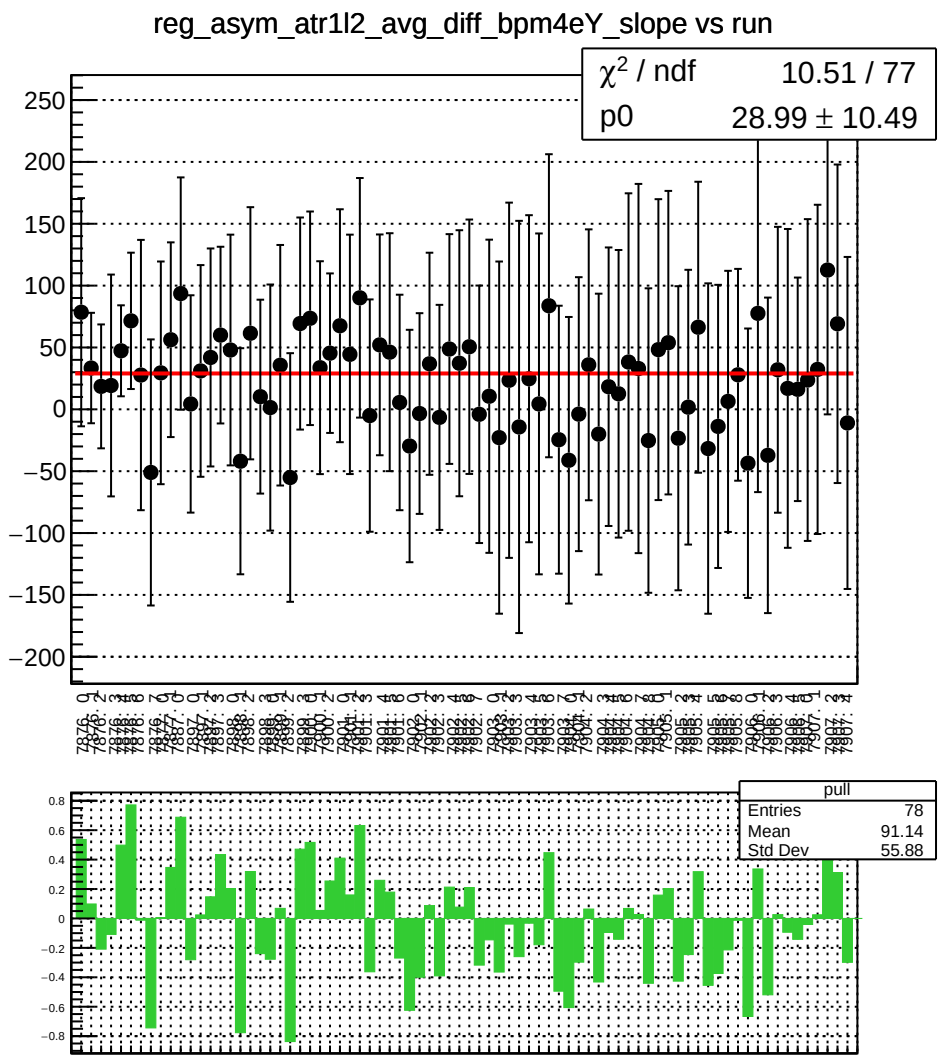

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 29.7 / 77
p0 147.9 ± 0.4374
160
155
150
145
140
pull
Entries 78
Mean 103.2
Std Dev 45.91
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 78
Mean −0.04357
Std Dev 0.6155
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

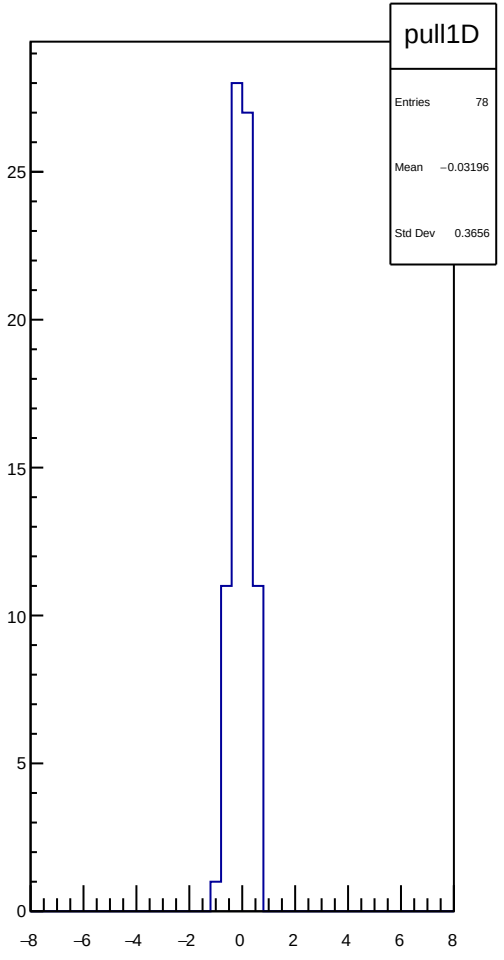

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 156.2 / 77
p0 −241.5 ± 7.909
pull
Entries 78
Mean 42.72
Std Dev 11.93
pull1D
Entries 78
Mean 0.4872
Std Dev 1.329

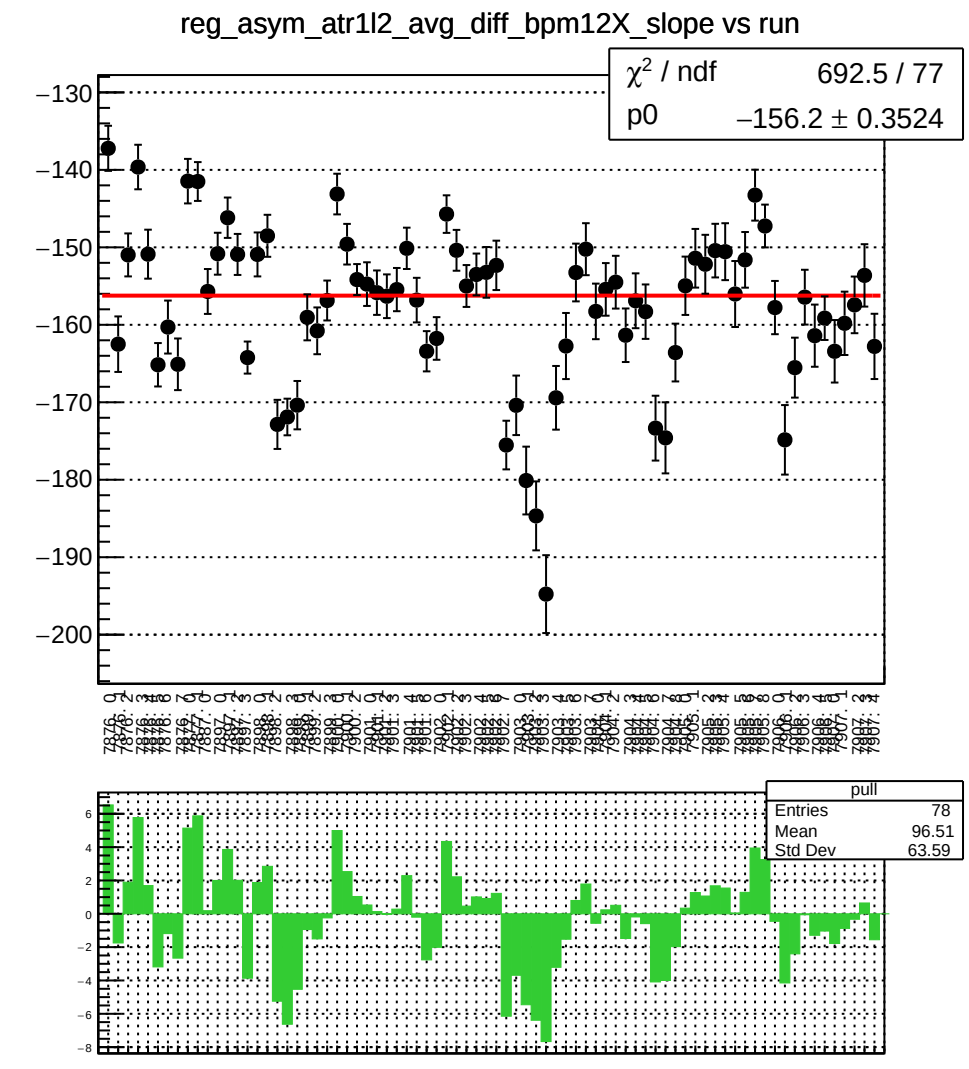

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.47 / 77
p0 33.05 ± 8.447
pull
Entries 78
Mean 75.24
Std Dev 37.9
pull1D
Entries 78
Mean 0.08599
Std Dev 0.4066

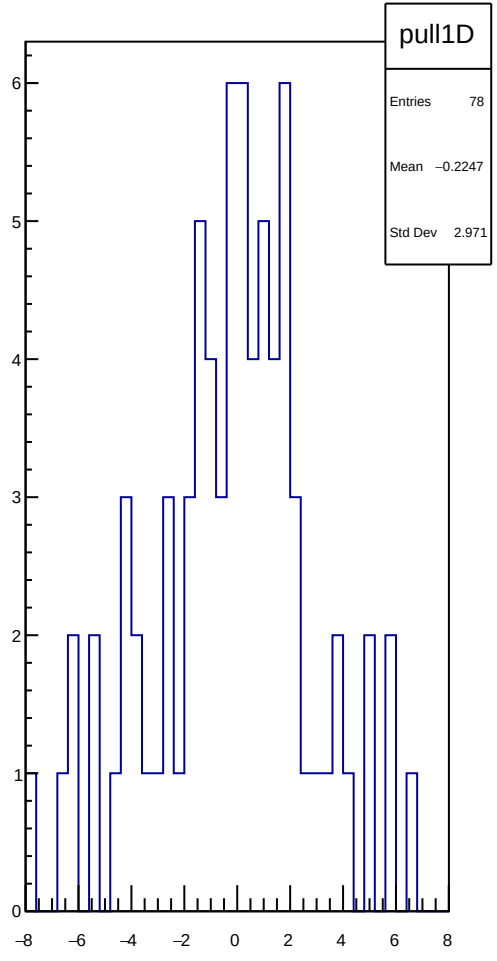

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 214.6 / 77
p0 163.2 ± 6.392
300
200
100
0
−100
pull
Entries 78
Mean 44.51
Std Dev 11.88
6
4
2
0
−2
−4

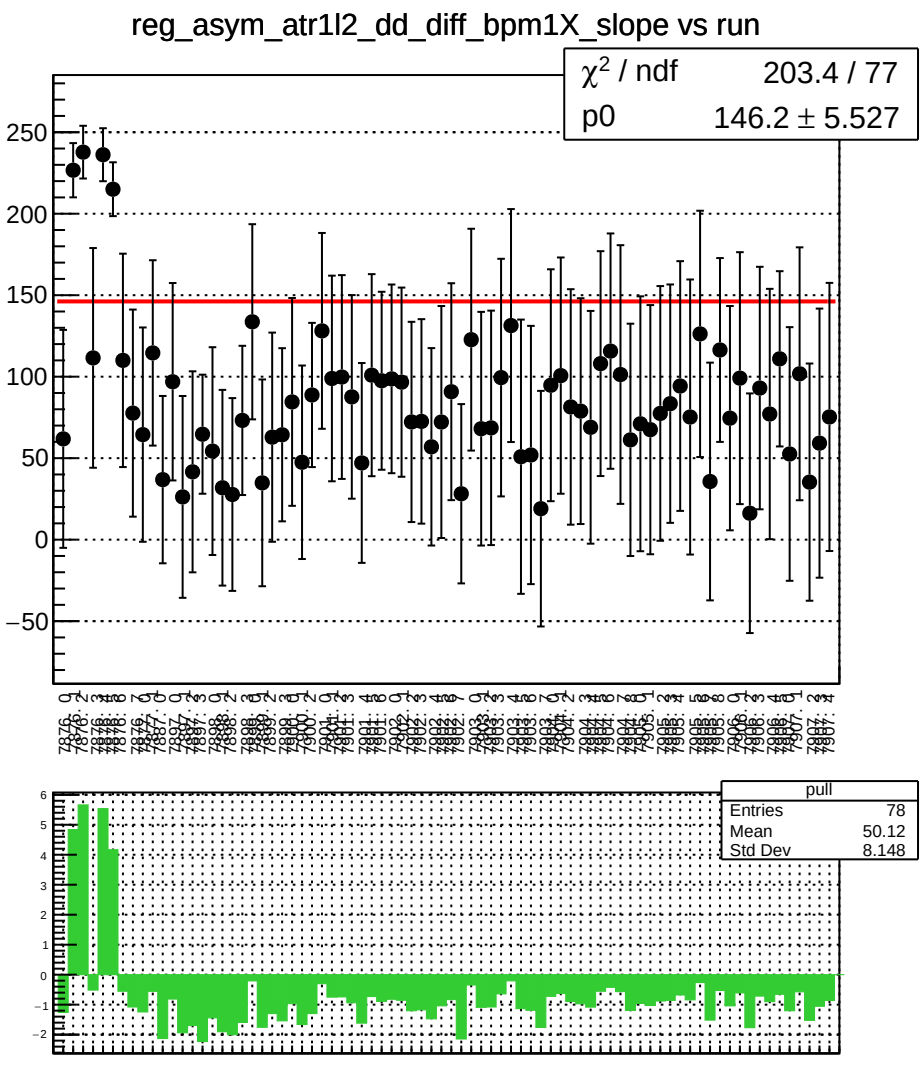

pull1D
Entries 78
Mean −0.6686
Std Dev 1.518
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

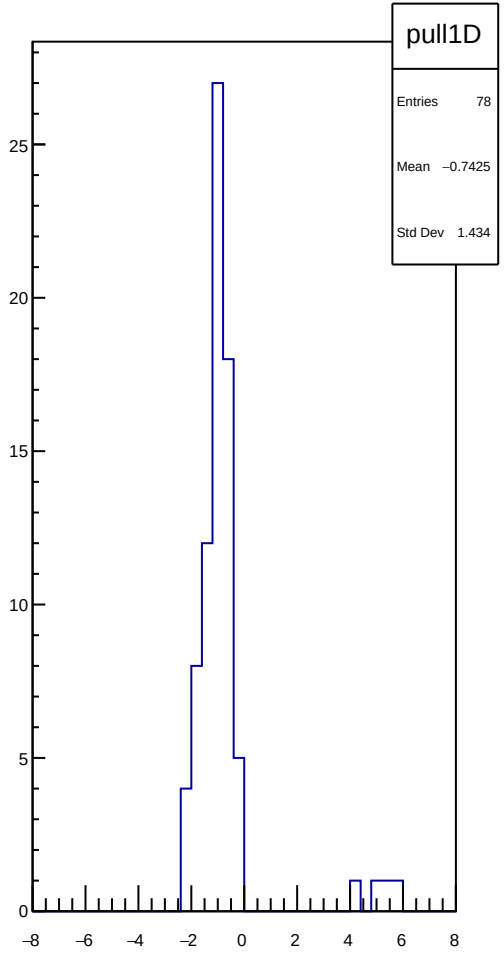

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.51 / 77
p0 28.99 ± 10.49
pull
Entries 78
Mean 91.14
Std Dev 55.88

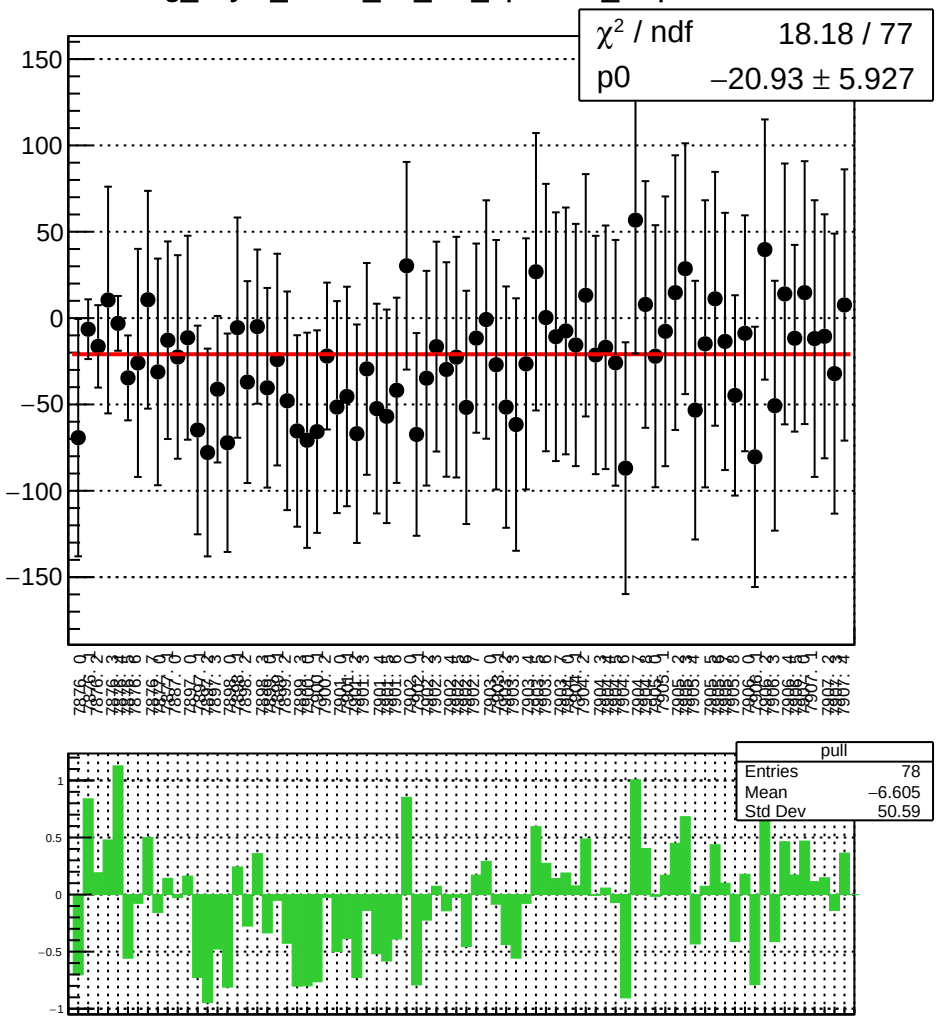

pull1D
Entries 78
Mean −0.03196
Std Dev 0.3656

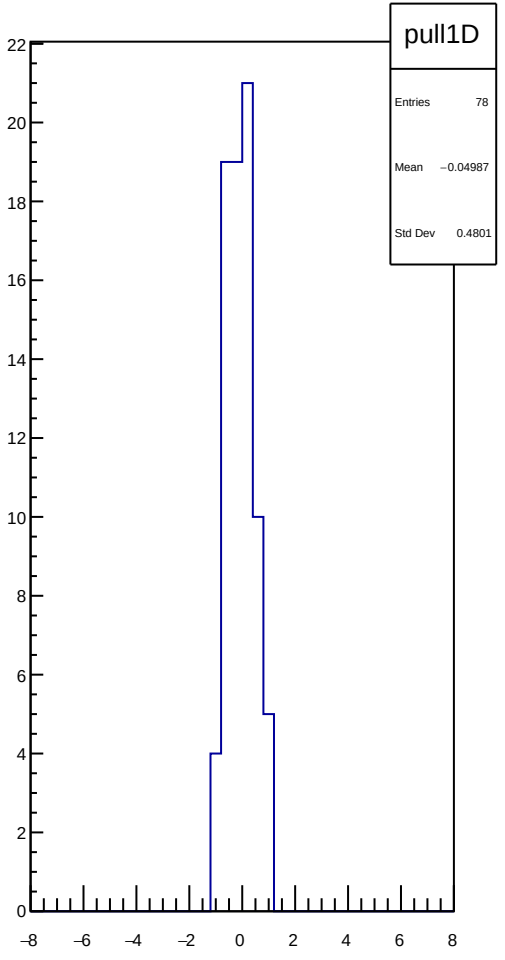

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 692.5 / 77
p0 −156.2 ± 0.3524
pull
Entries 78
Mean 96.51
Std Dev 63.59

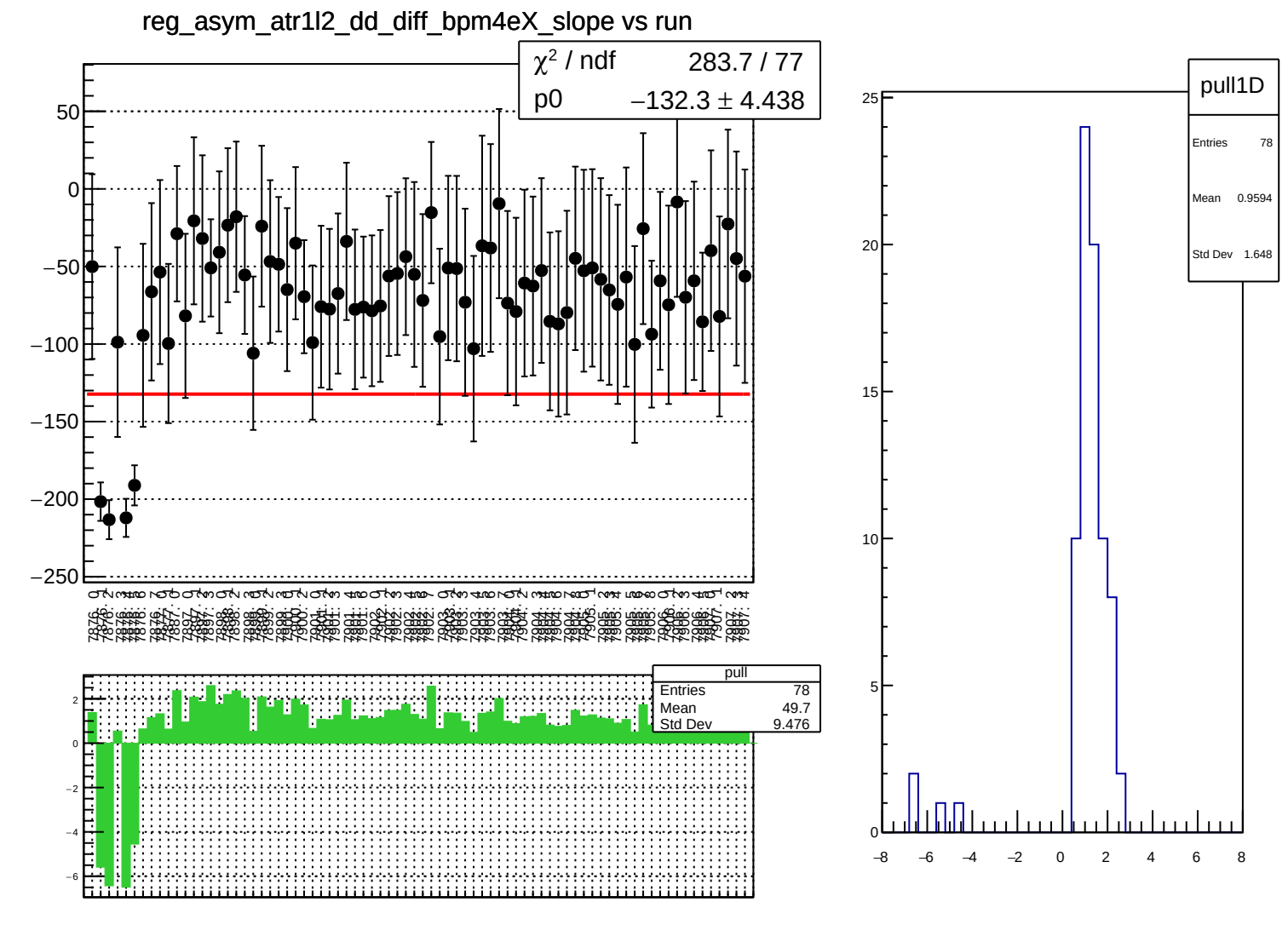

pull1D
Entries 78
Mean −0.2247
Std Dev 2.971

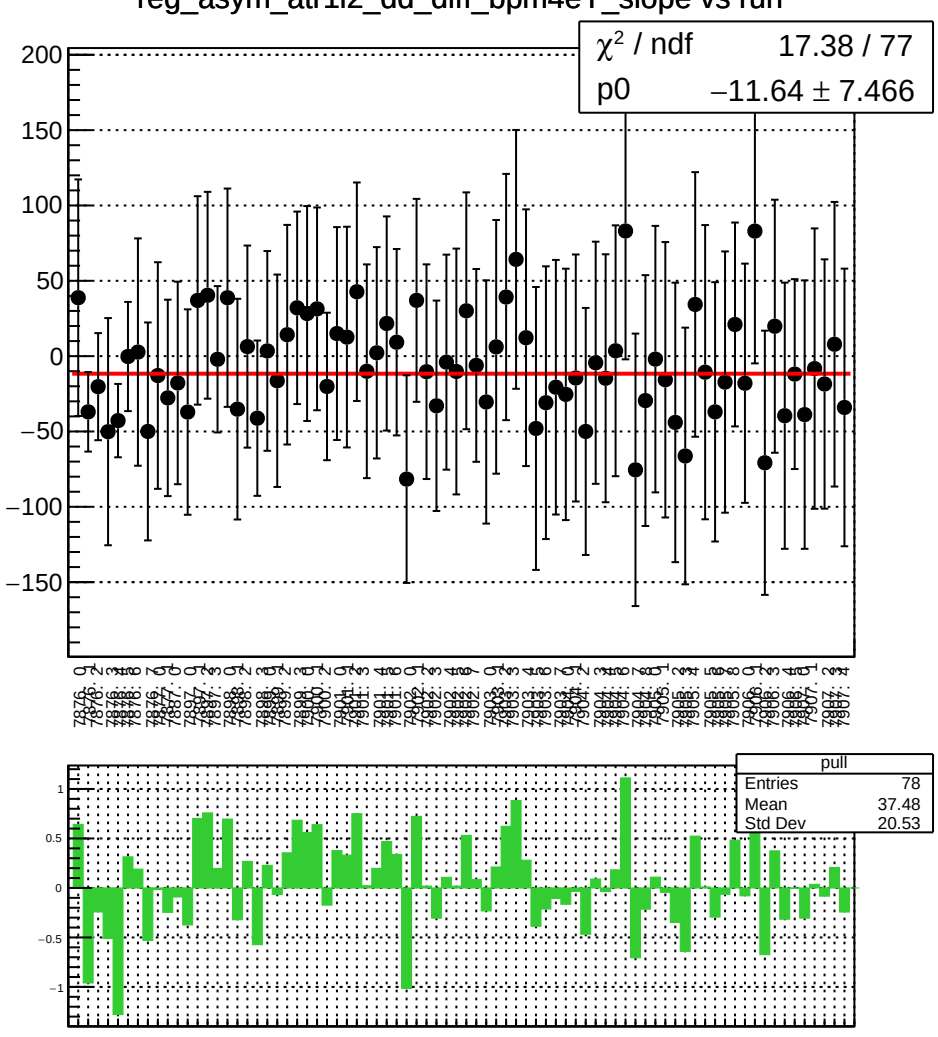

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 203.4 / 77
p0 146.2 ± 5.527
250
200
150
100
50
0
−50
pull
Entries 78
Mean 50.12
Std Dev 8.148
6
5
4
3
2
1
0
−1
−2

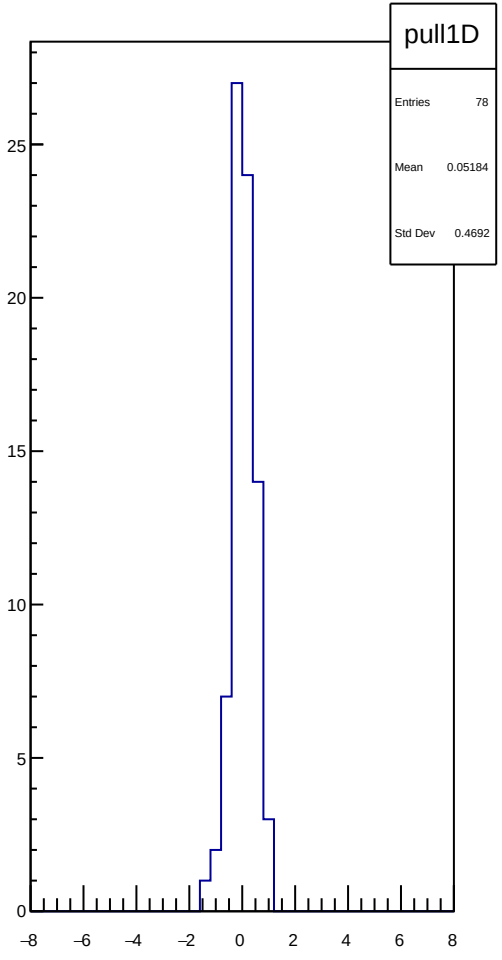

pull1D
Entries 78
Mean −0.7425
Std Dev 1.434
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

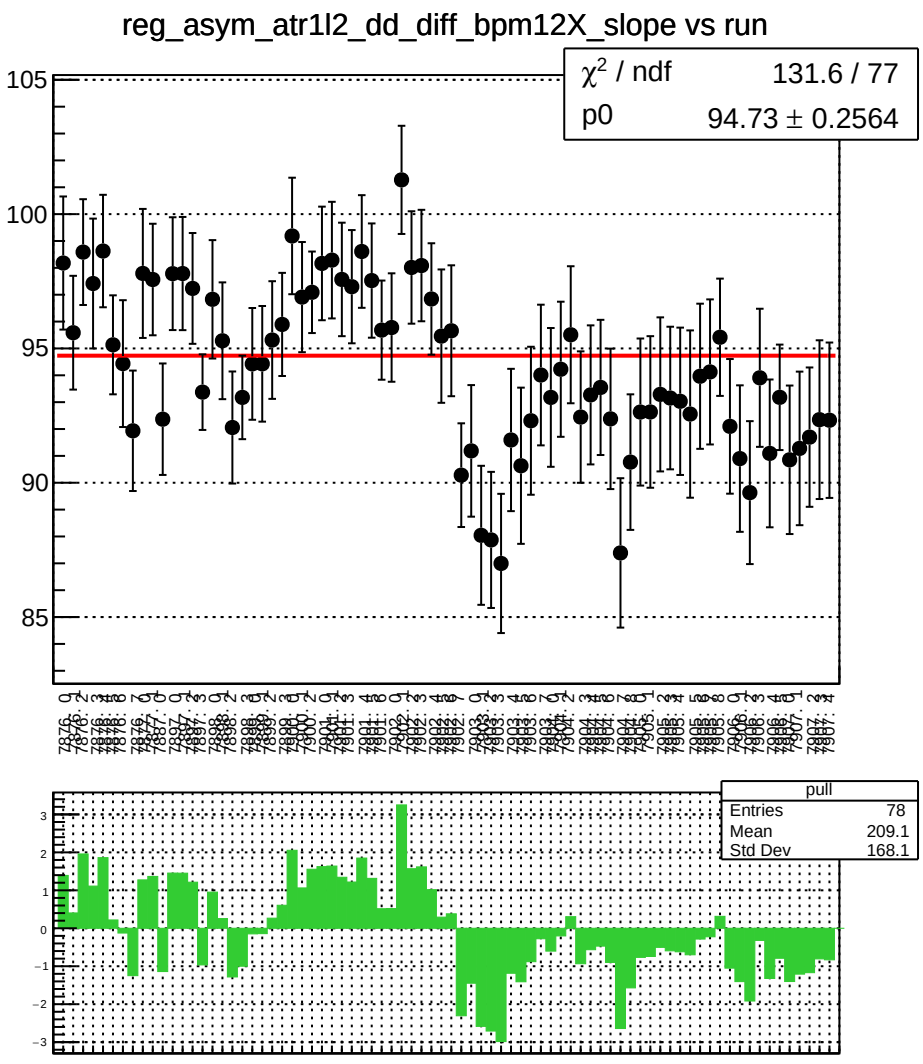

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.18 / 77
p0 −20.93 ± 5.927
pull
Entries 78
Mean −6.605
Std Dev 50.59

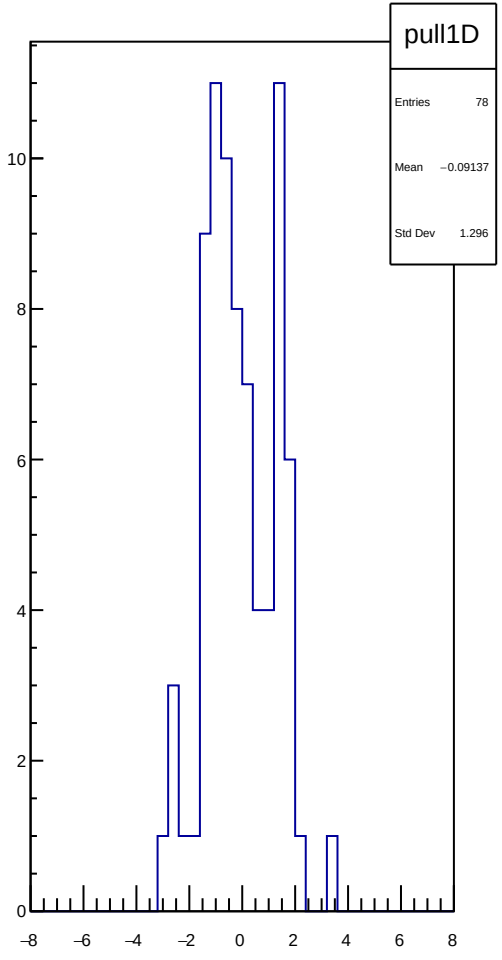

pull1D
Entries 78
Mean −0.04987
Std Dev 0.4801

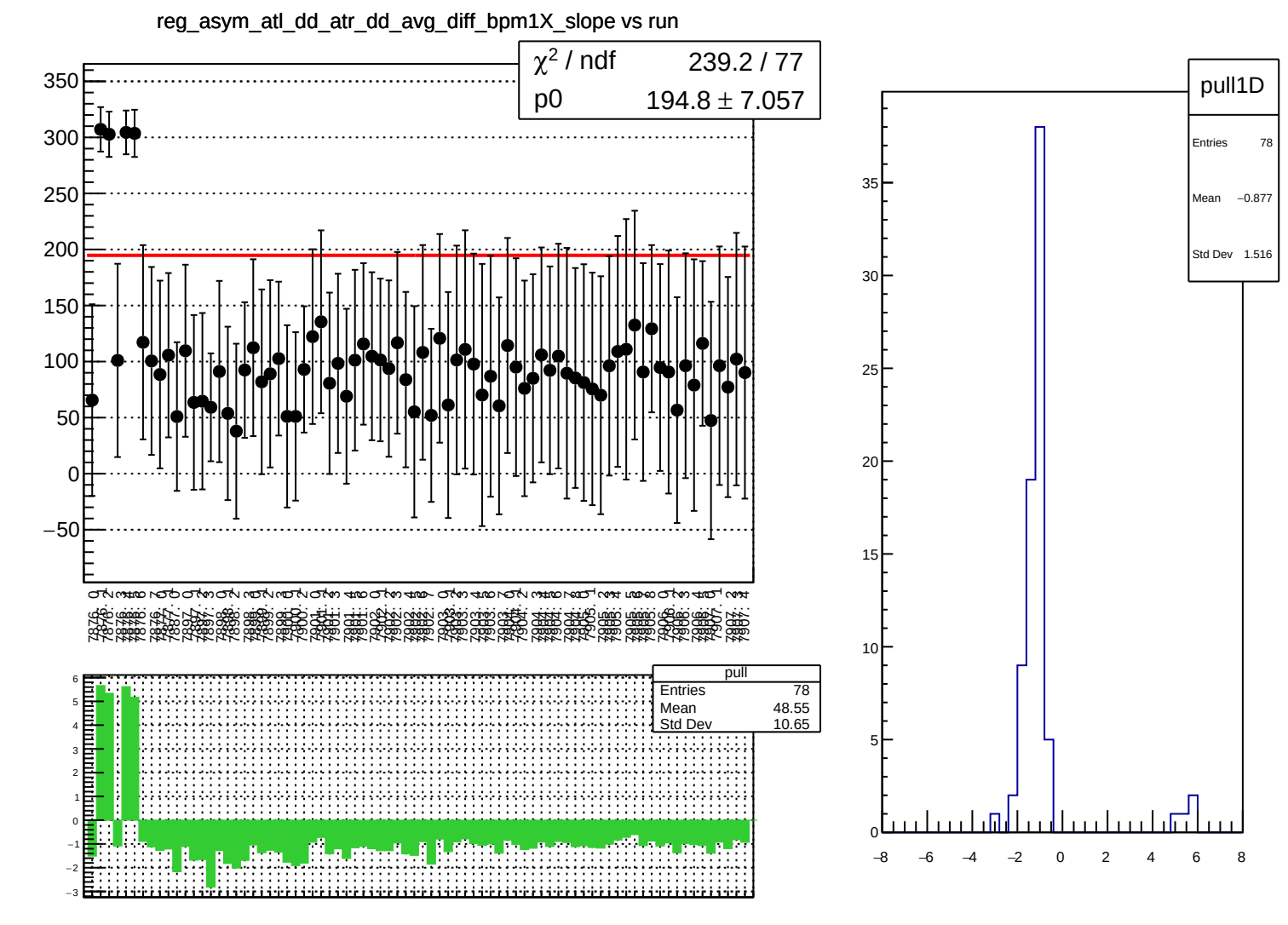

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 283.7 / 77
p0 −132.3 ± 4.438
pull
Entries 78
Mean 49.7
Std Dev 9.476
pull1D
Entries 78
Mean 0.9594
Std Dev 1.648

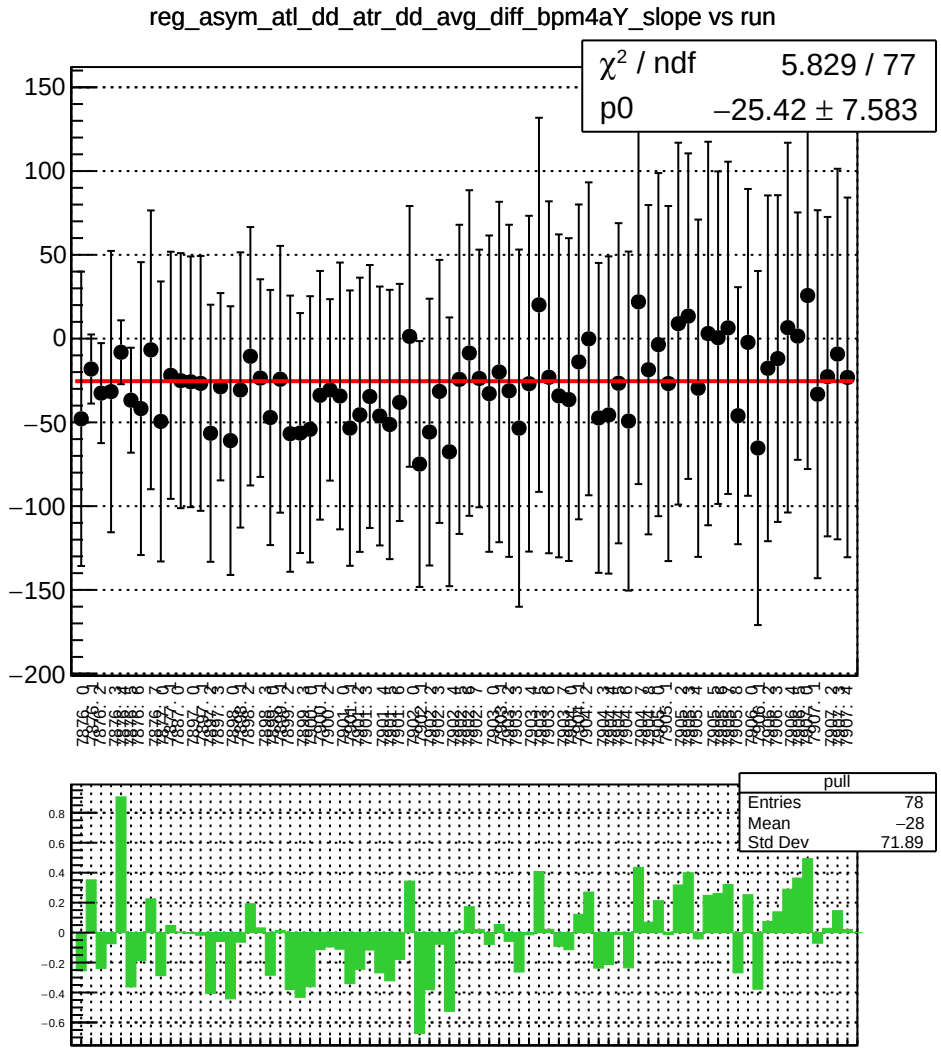

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.38 / 77
p0 −11.64 ± 7.466
pull
Entries 78
Mean 37.48
Std Dev 20.53

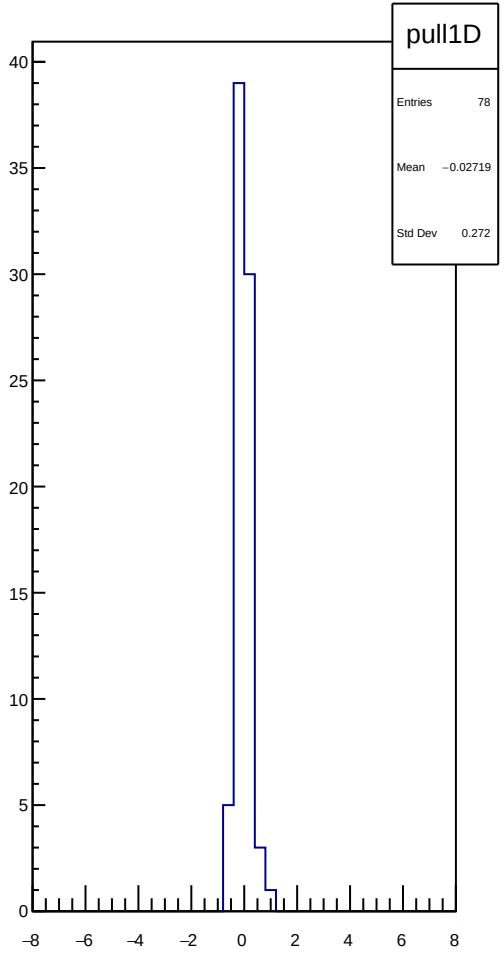

pull1D
Entries 78
Mean 0.05184
Std Dev 0.4692

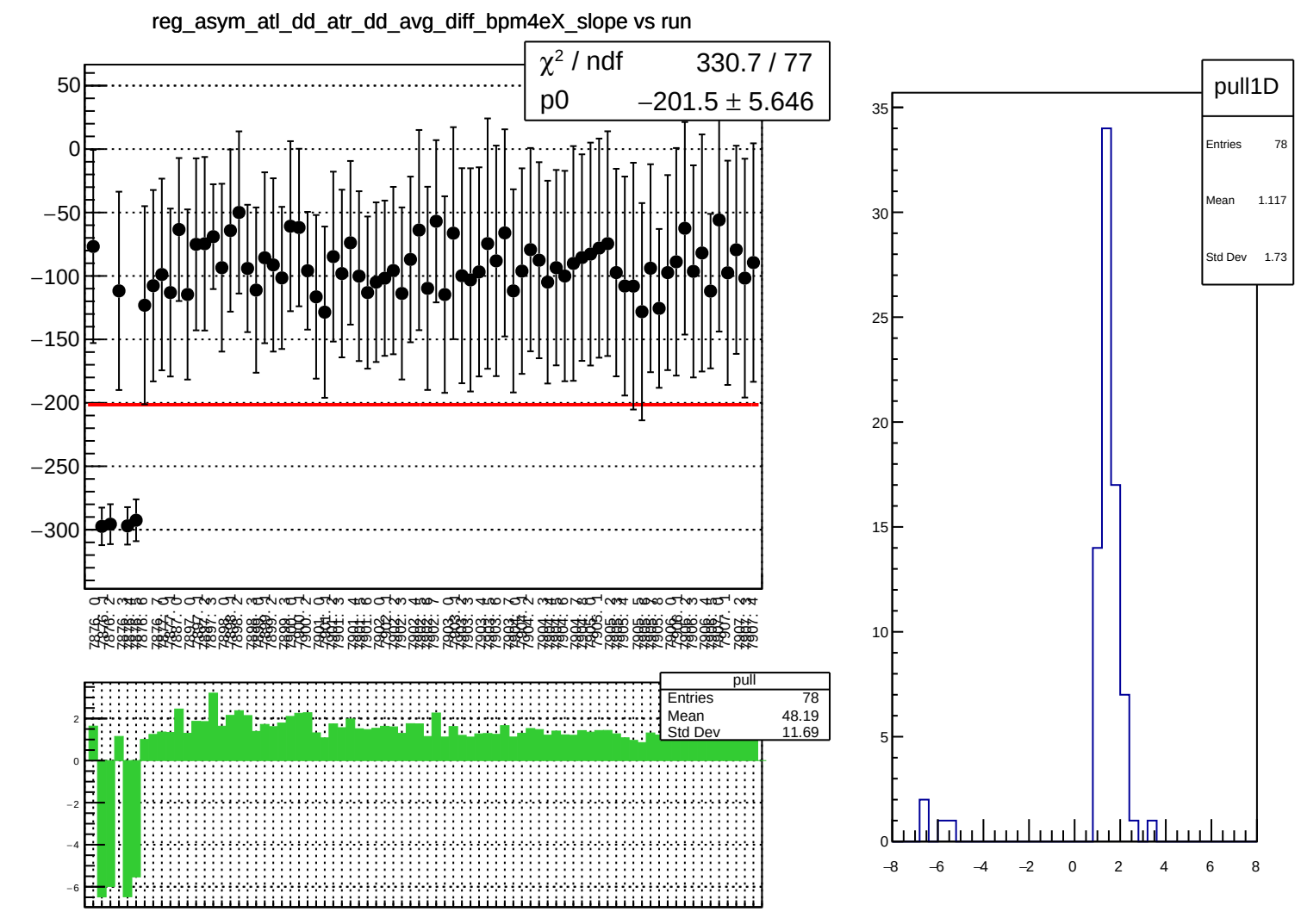

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 131.6 / 77
p0 94.73 ± 0.2564
105
100
95
90
85
pull
Entries 78
Mean 209.1
Std Dev 168.1
3
2
1
0
−1
−2
−3

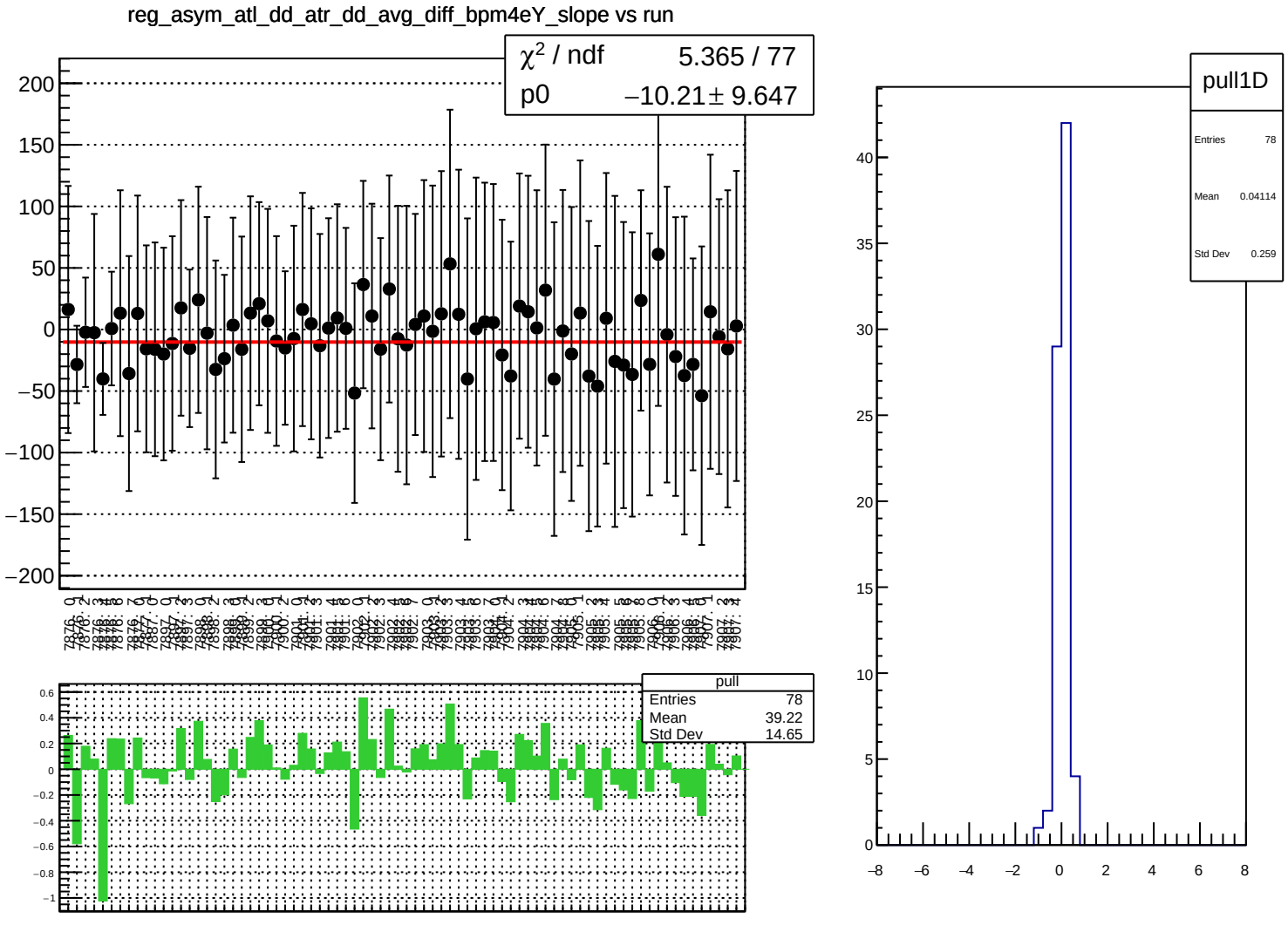

pull1D
Entries 78
Mean −0.09137
Std Dev 1.296
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

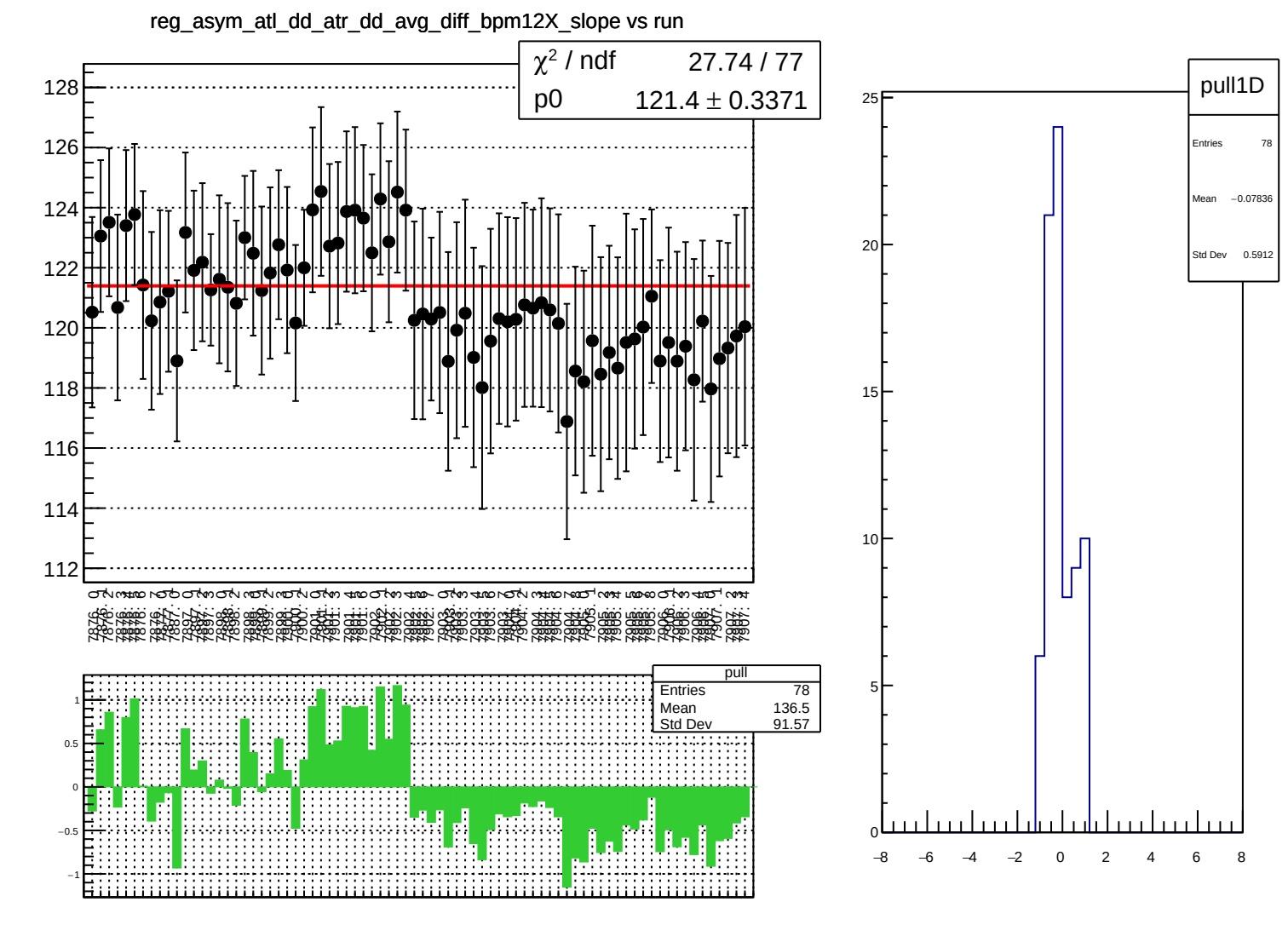

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 239.2 / 77
p0 194.8 ± 7.057
pull
Entries 78
Mean 48.55
Std Dev 10.65
pull1D
Entries 78
Mean −0.877
Std Dev 1.516

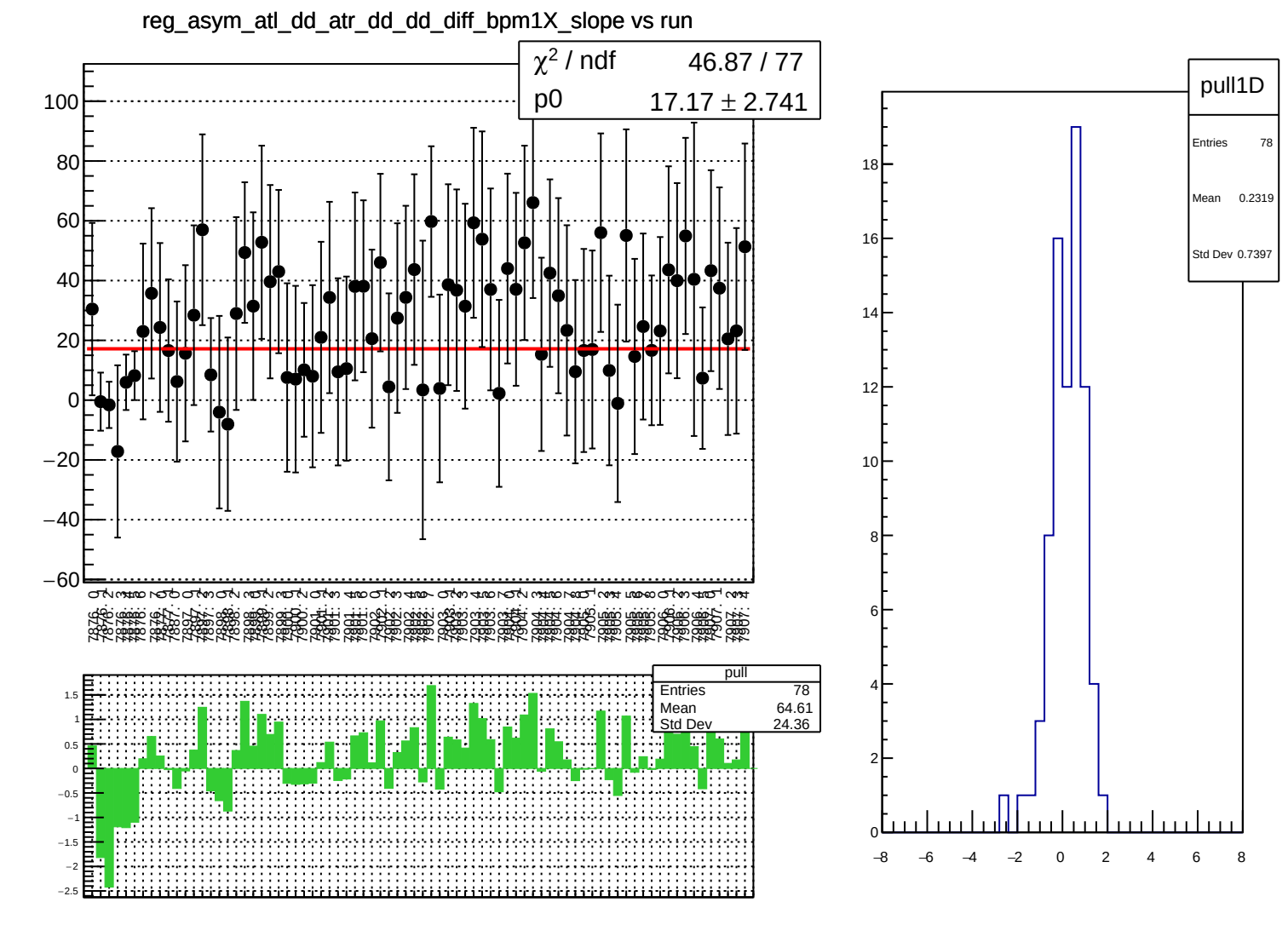

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.829 / 77
p0 −25.42 ± 7.583
pull
Entries 78
Mean −28
Std Dev 71.89

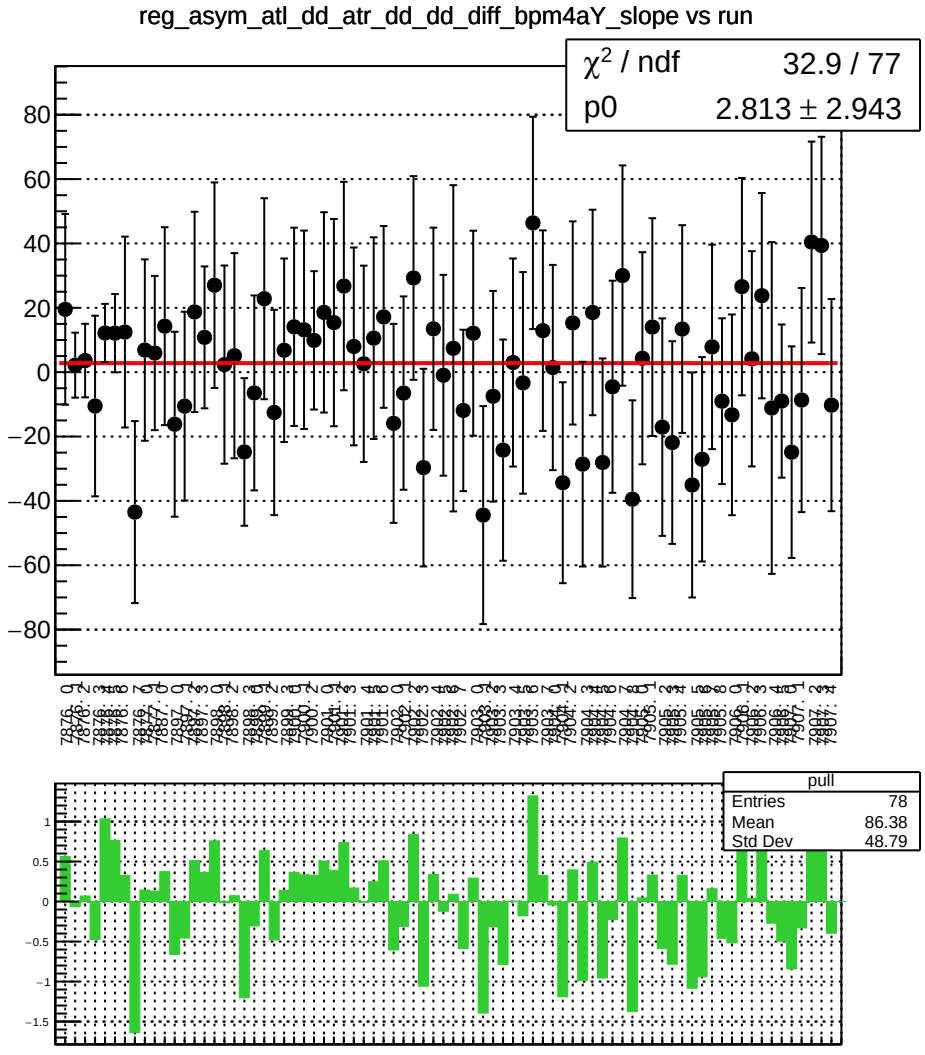

pull1D
Entries 78
Mean −0.02719
Std Dev 0.272

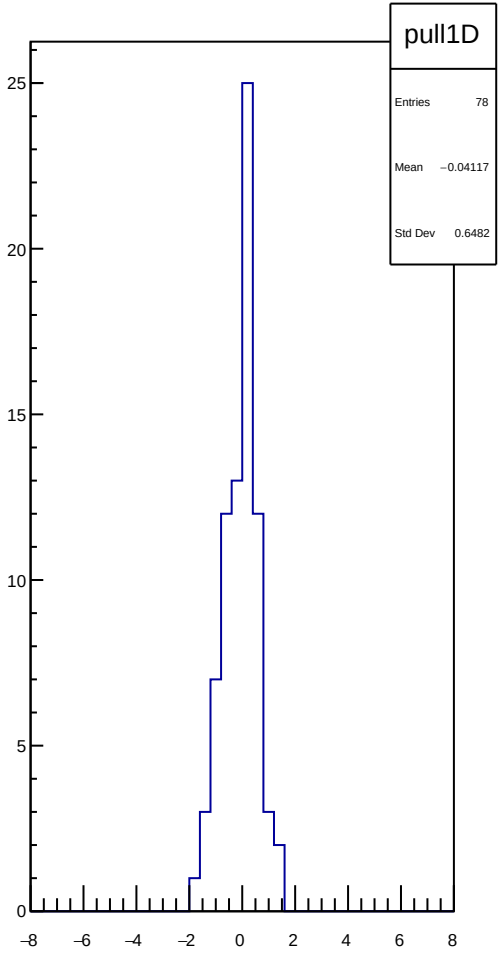

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 330.7 / 77
p0 −201.5 ± 5.646
pull
Entries 78
Mean 48.19
Std Dev 11.69
pull1D
Entries 78
Mean 1.117
Std Dev 1.73

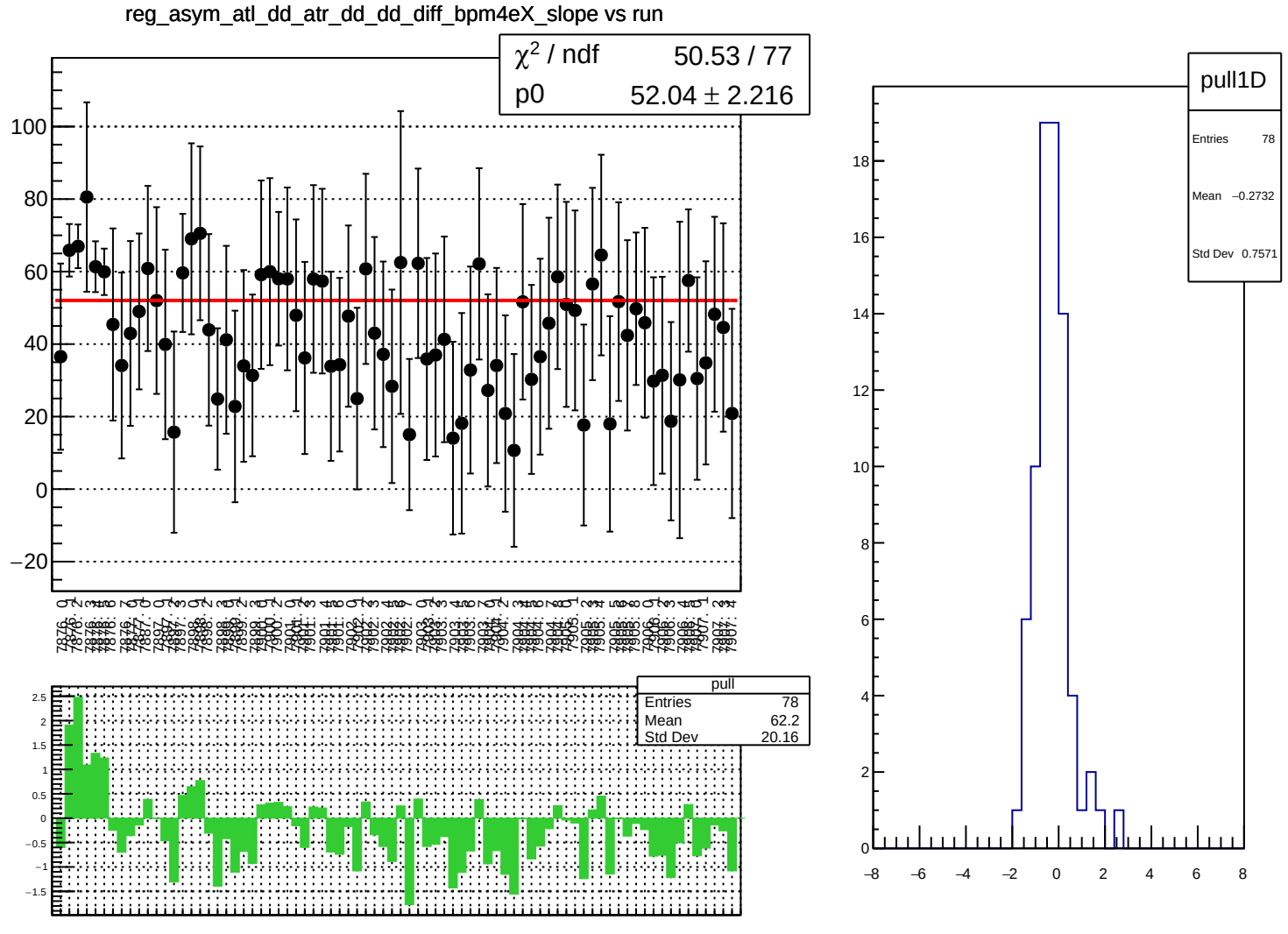

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.365 / 77
p0 −10.21 ± 9.647
pull
Entries 78
Mean 39.22
Std Dev 14.65
pull1D
Entries 78
Mean 0.04114
Std Dev 0.259

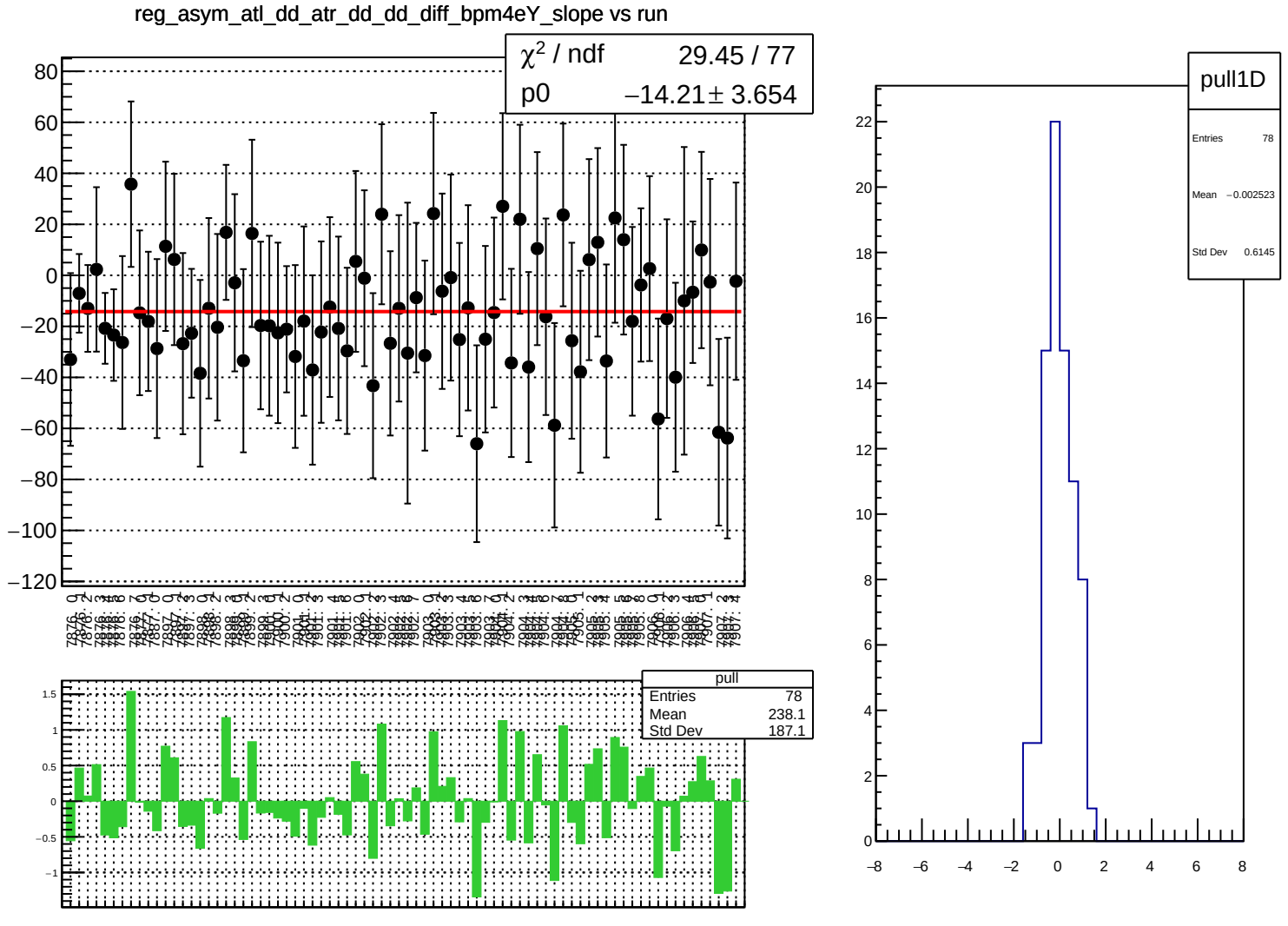

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 27.74 / 77
p0 121.4 ± 0.3371
pull
Entries 78
Mean 136.5
Std Dev 91.57
pull1D
Entries 78
Mean −0.07836
Std Dev 0.5912

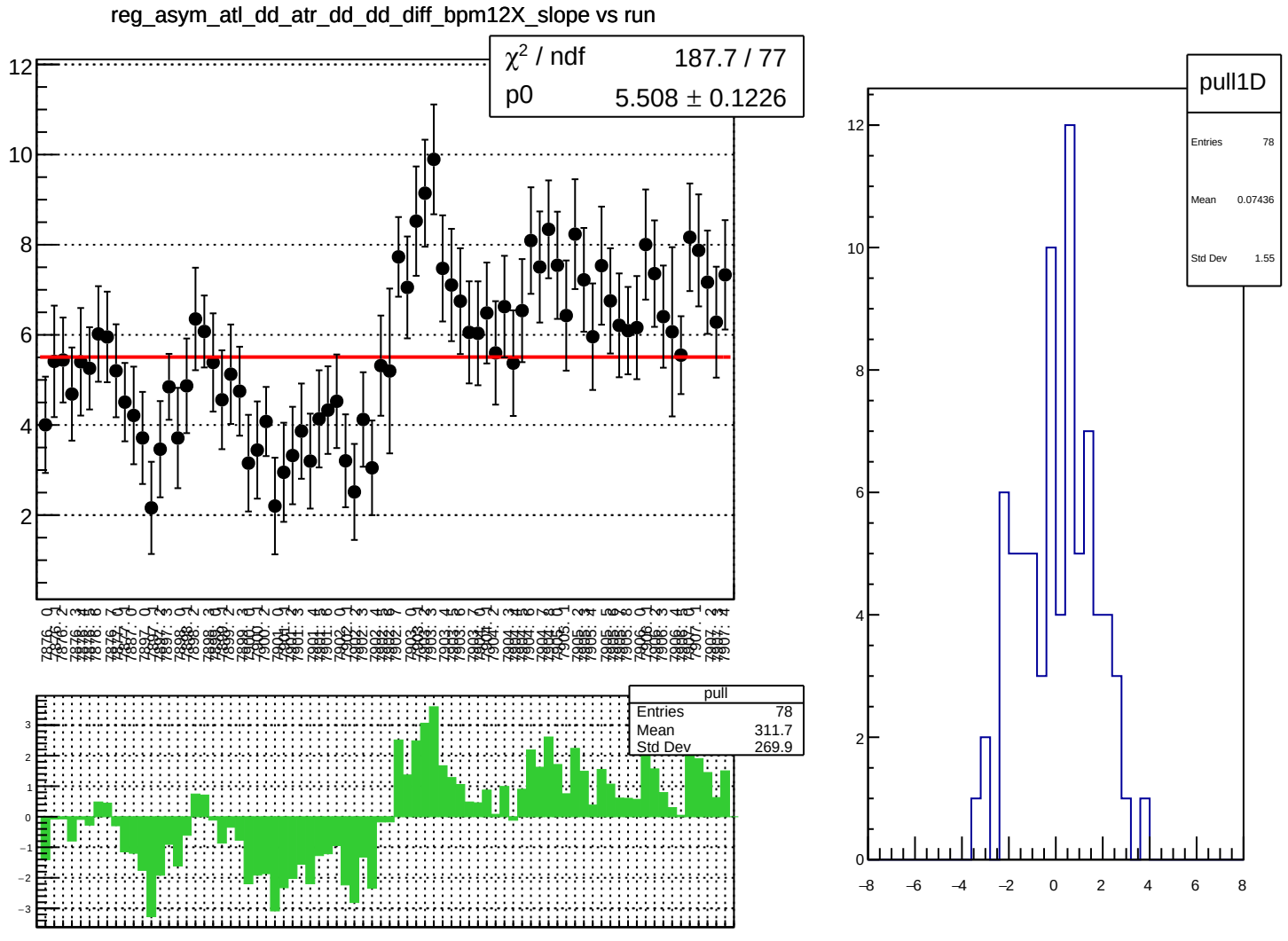

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 46.87 / 77
p0 17.17 ± 2.741
pull
Entries 78
Mean 64.61
Std Dev 24.36
pull1D
Entries 78
Mean 0.2319
Std Dev 0.7397

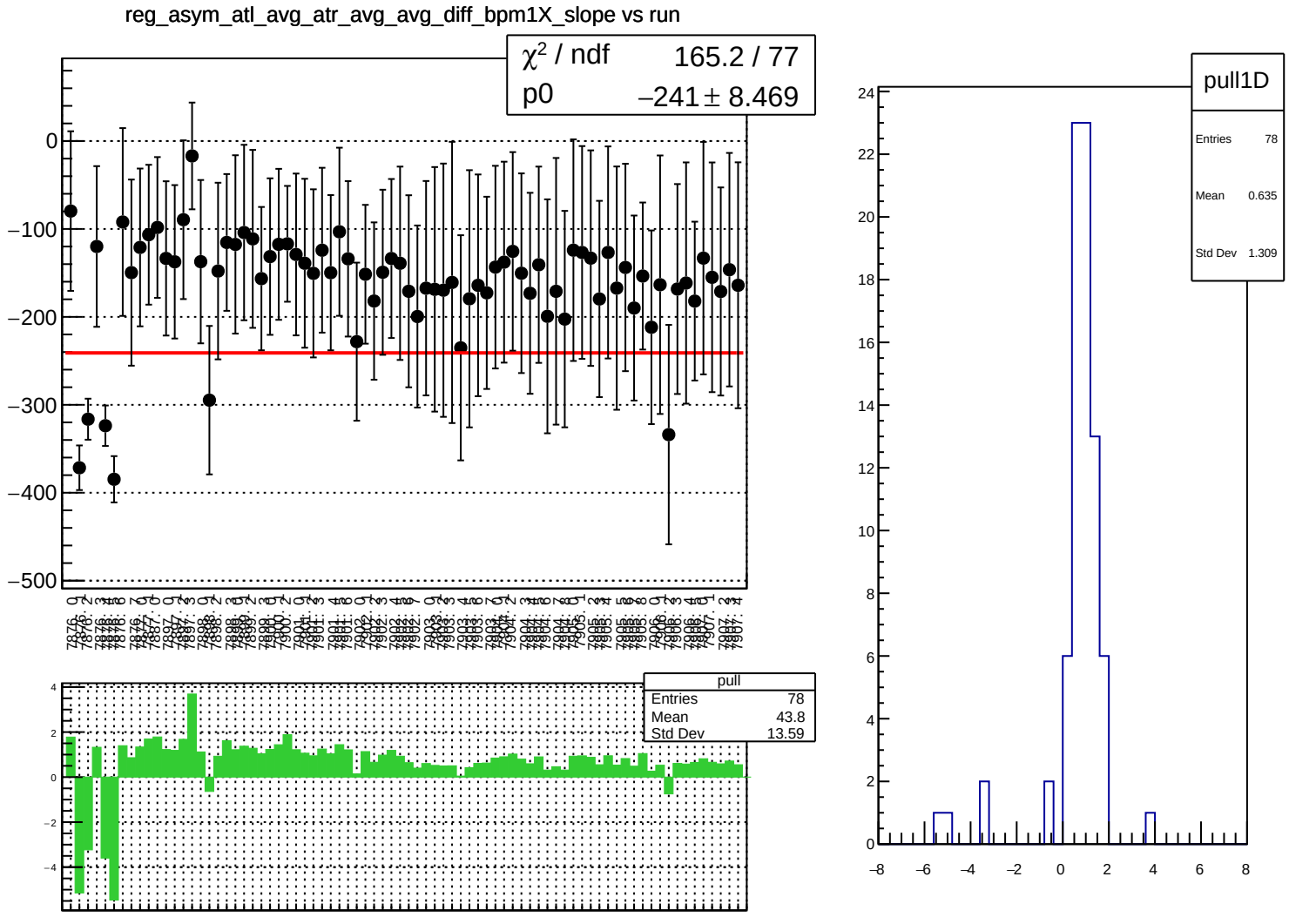

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.9 / 77
p0 2.813 ± 2.943
pull
Entries 78
Mean 86.38
Std Dev 48.79

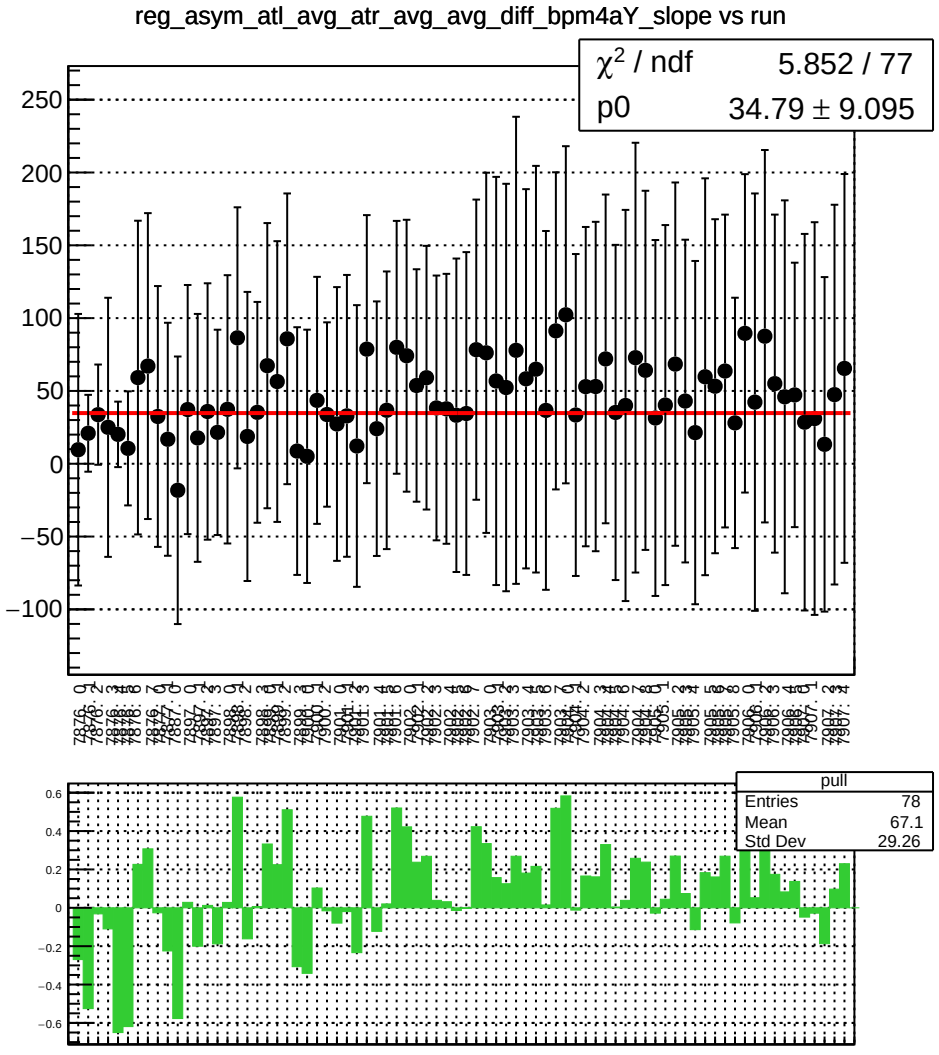

pull1D
Entries 78
Mean −0.04117
Std Dev 0.6482

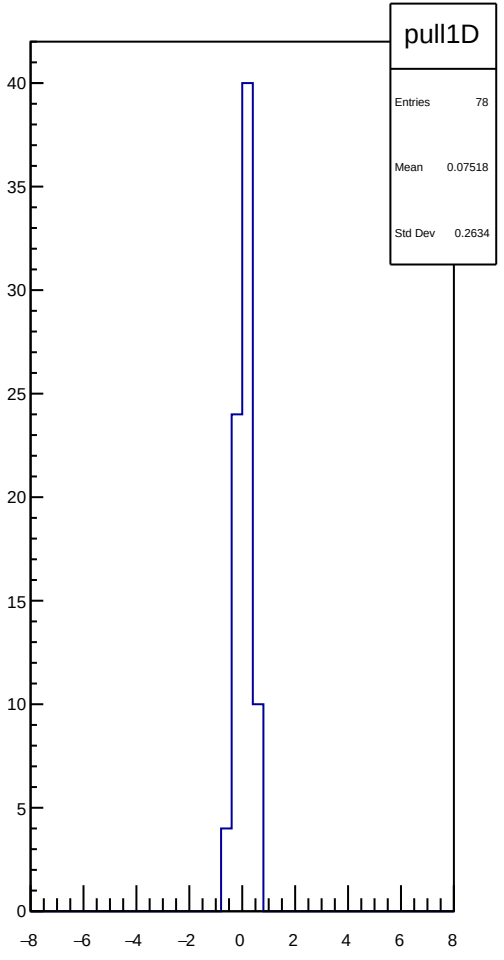

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.53 / 77
p0 52.04 ± 2.216
pull
Entries 78
Mean 62.2
Std Dev 20.16
pull1D
Entries 78
Mean −0.2732
Std Dev 0.7571

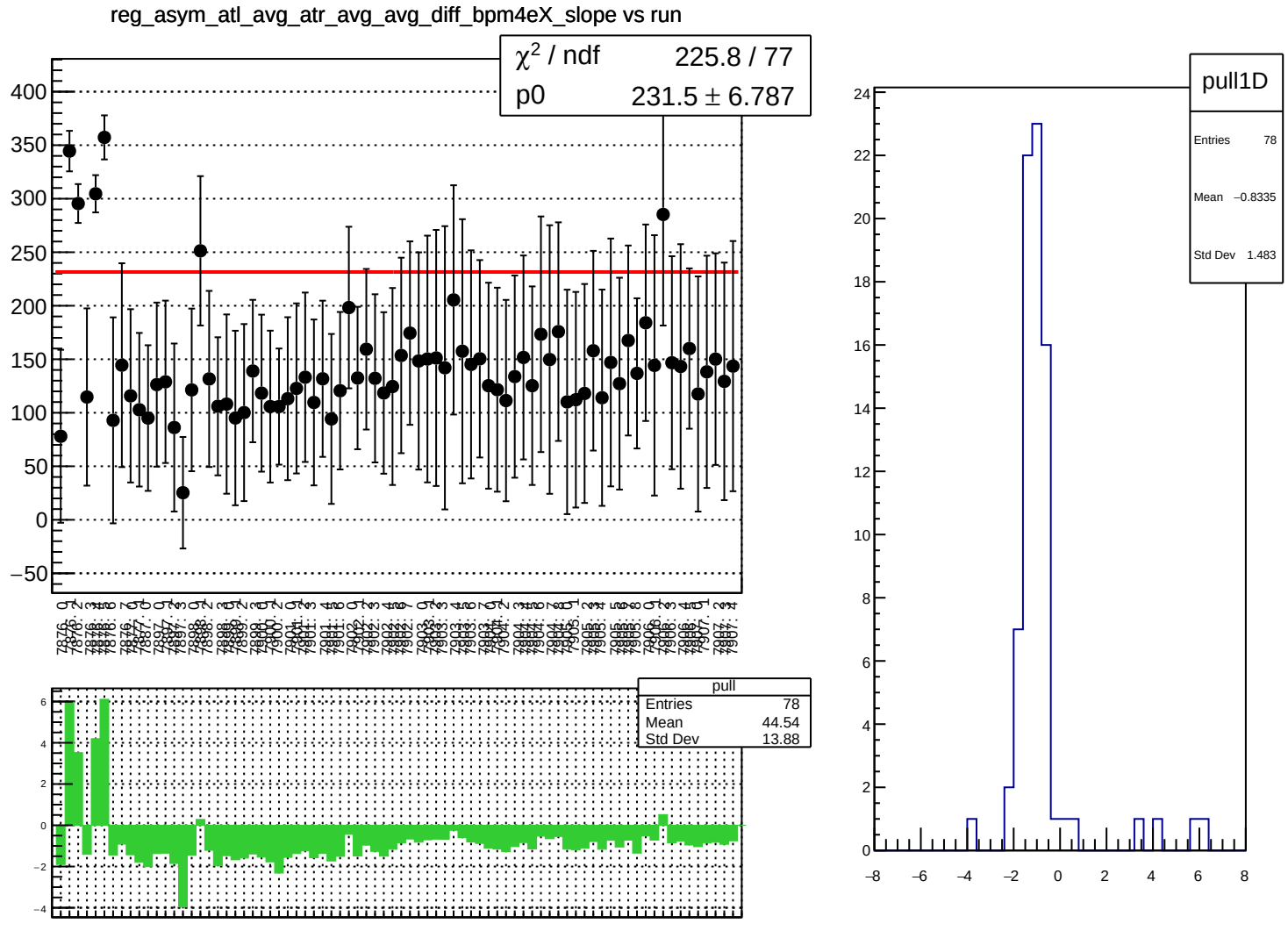

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.45 / 77
p0 −14.21± 3.654
pull
Entries 78
Mean 238.1
Std Dev 187.1
pull1D
Entries 78
Mean −0.002523
Std Dev 0.6145

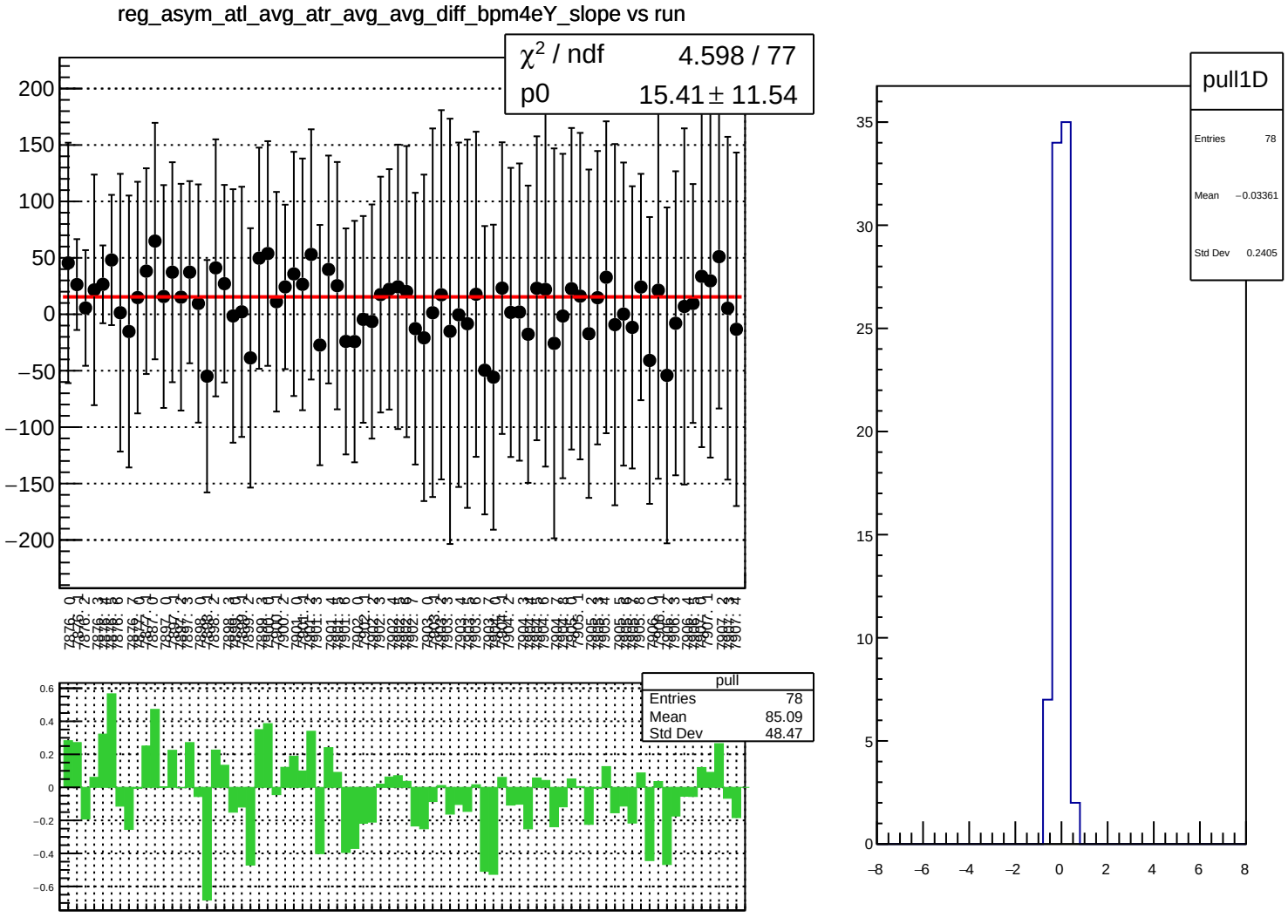

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 187.7 / 77
p0 5.508 ± 0.1226
pull
Entries 78
Mean 311.7
Std Dev 269.9
pull1D
Entries 78
Mean 0.07436
Std Dev 1.55

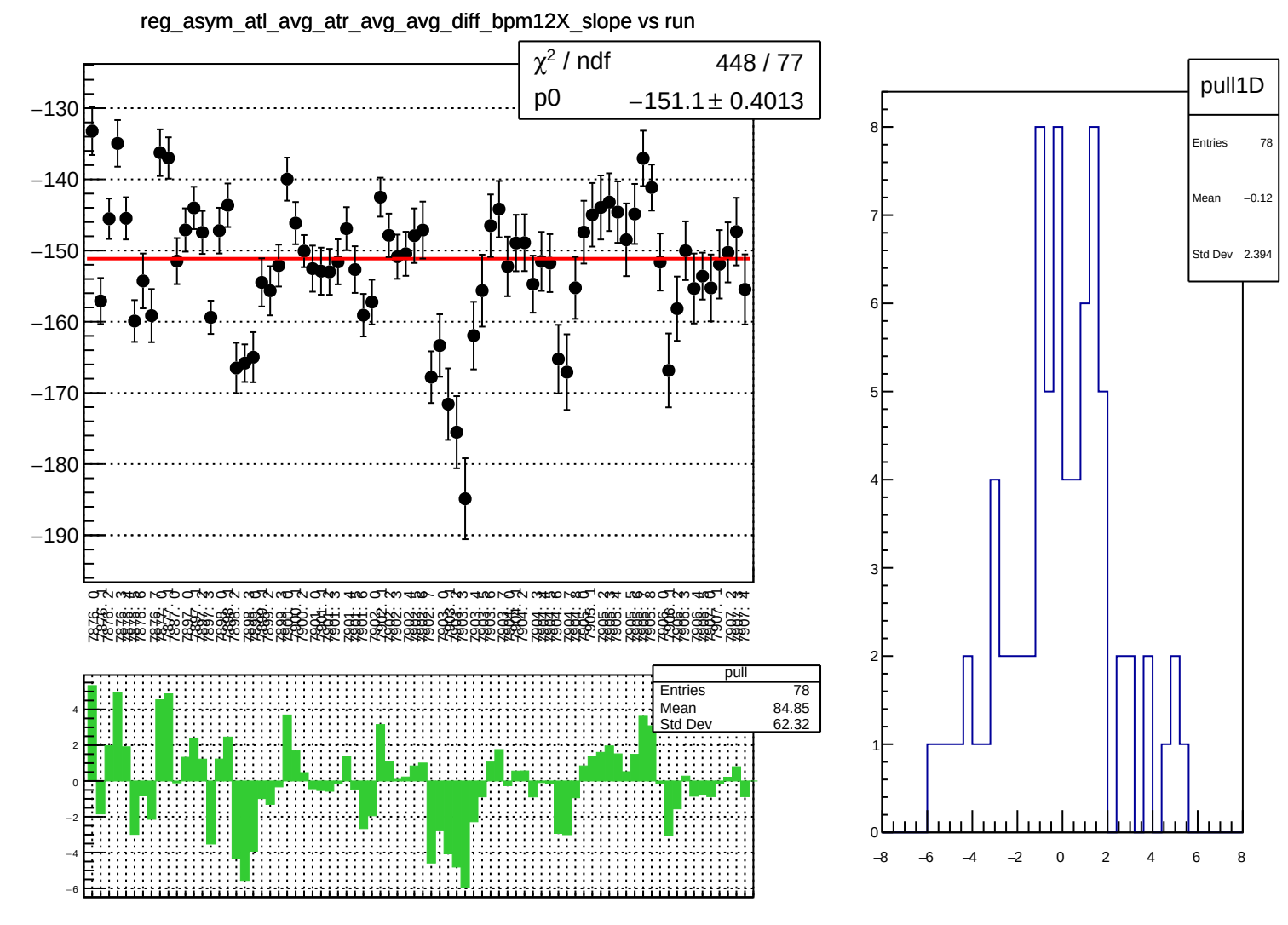

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 165.2 / 77
p0 −241 ± 8.469
pull
Entries 78
Mean 43.8
Std Dev 13.59
pull1D
Entries 78
Mean 0.635
Std Dev 1.309

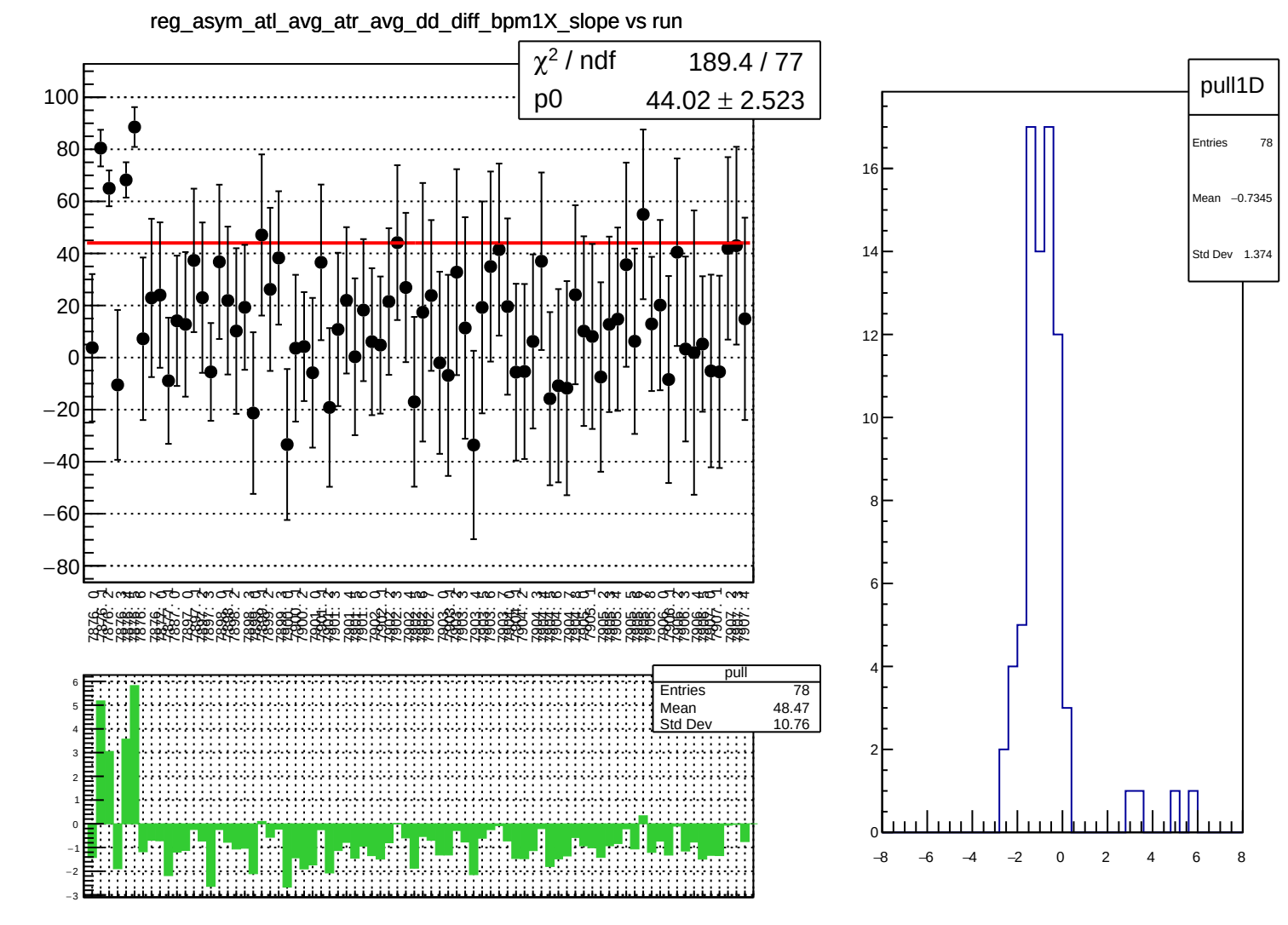

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.852 / 77
p0 34.79 ± 9.095
pull
Entries 78
Mean 67.1
Std Dev 29.26

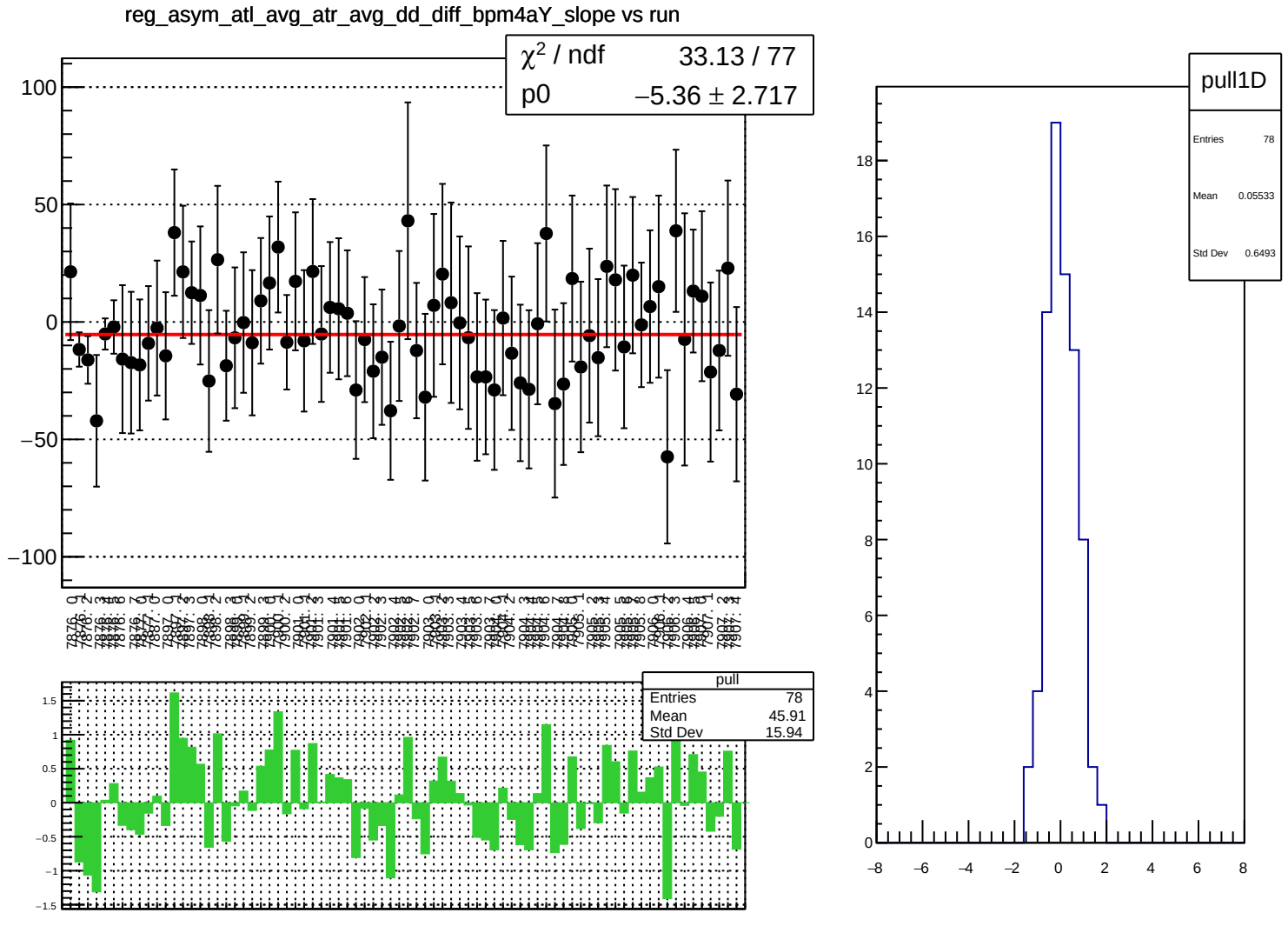

pull1D
Entries 78
Mean 0.07518
Std Dev 0.2634

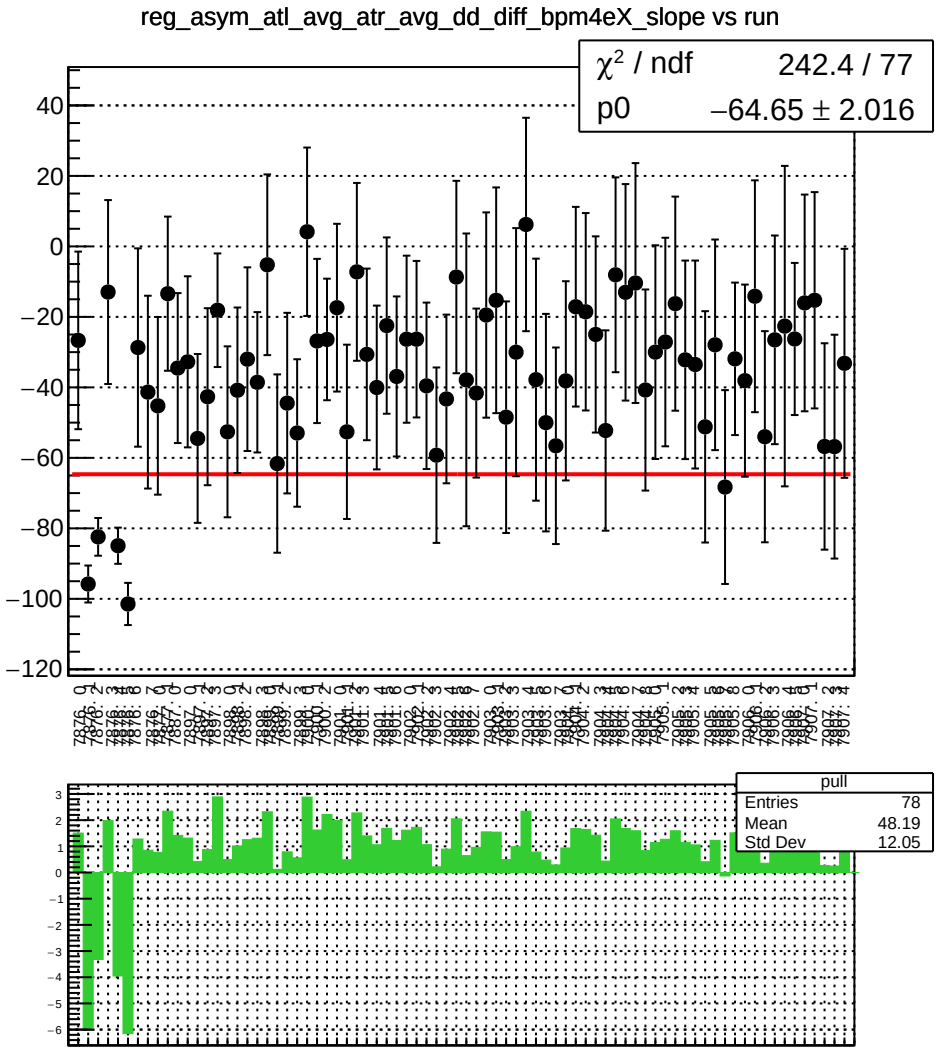

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 225.8 / 77
p0 231.5 ± 6.787
pull
Entries 78
Mean 44.54
Std Dev 13.88
pull1D
Entries 78
Mean −0.8335
Std Dev 1.483

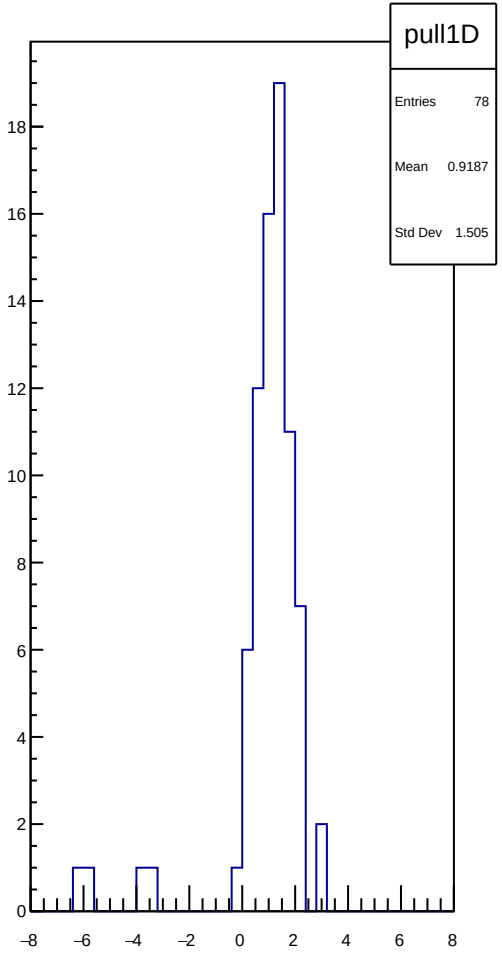

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.598 / 77
p0 15.41 ± 11.54
pull
Entries 78
Mean 85.09
Std Dev 48.47
pull1D
Entries 78
Mean −0.03361
Std Dev 0.2405

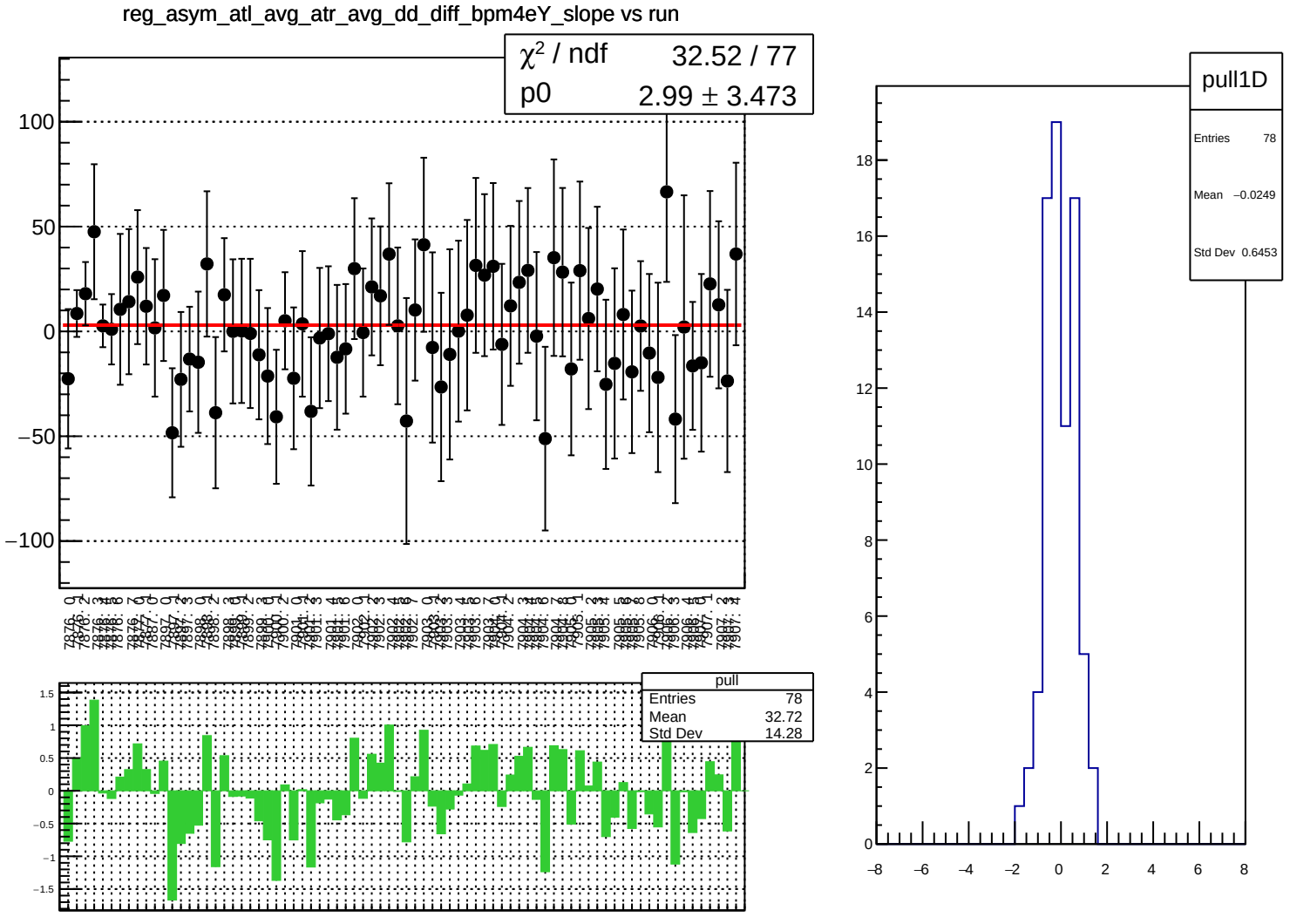

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 448 / 77
p0 −151.1 ± 0.4013
pull
Entries 78
Mean 84.85
Std Dev 62.32
pull1D
Entries 78
Mean −0.12
Std Dev 2.394

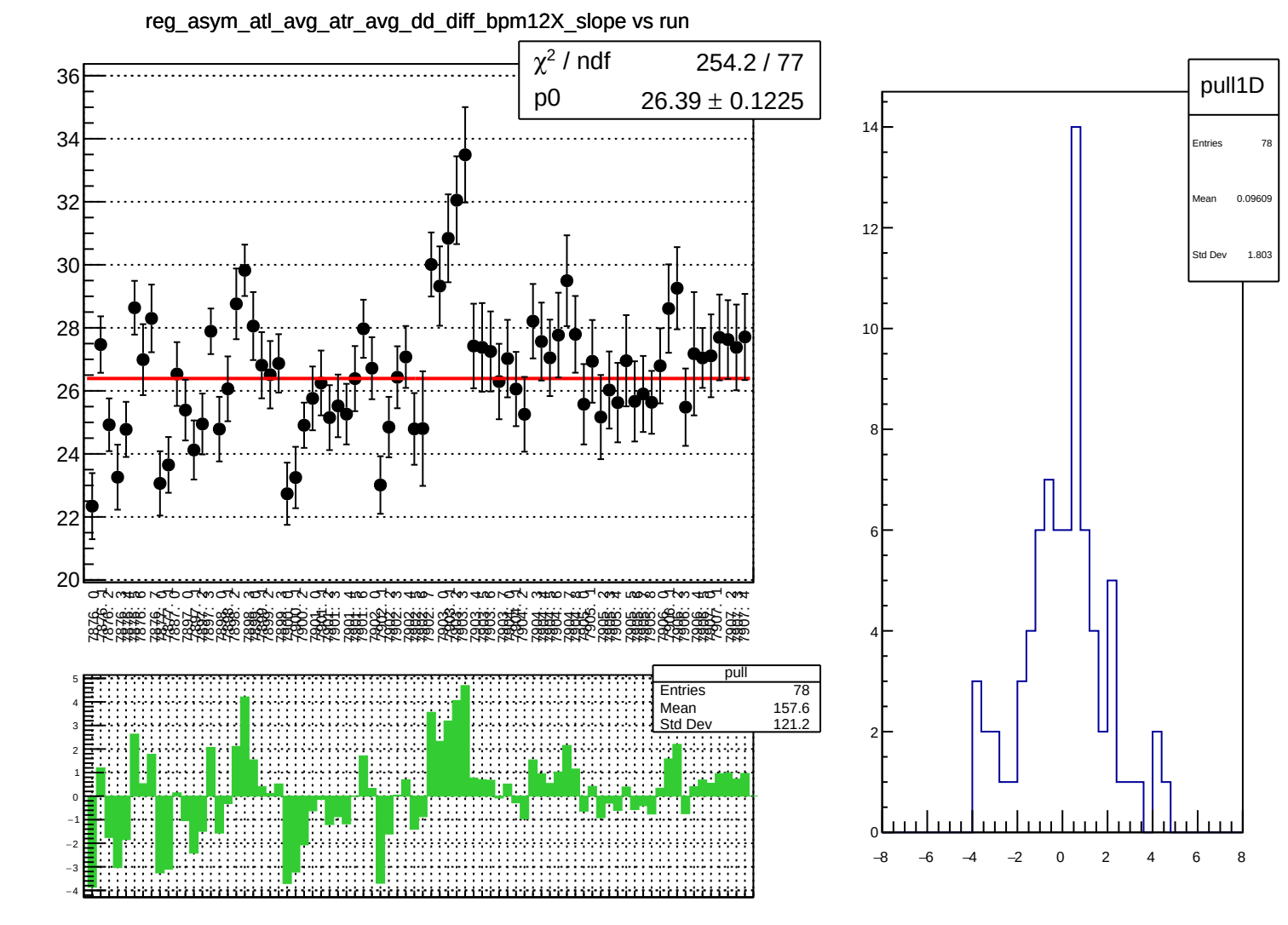

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 189.4 / 77
p0 44.02 ± 2.523
pull
Entries 78
Mean 48.47
Std Dev 10.76
pull1D
Entries 78
Mean −0.7345
Std Dev 1.374

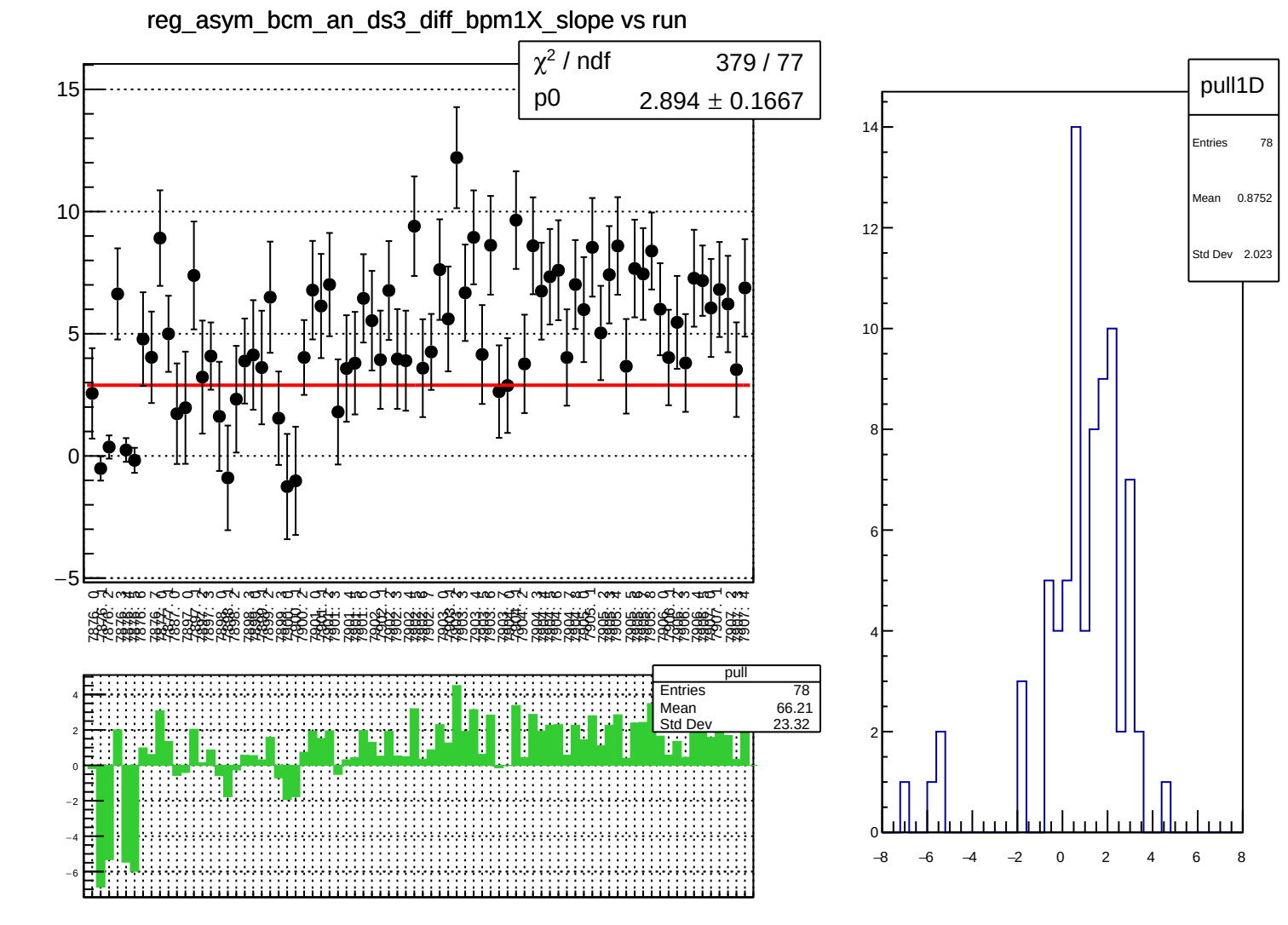

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.13 / 77
p0 −5.36 ± 2.717
pull
Entries 78
Mean 45.91
Std Dev 15.94
pull1D
Entries 78
Mean 0.05533
Std Dev 0.6493

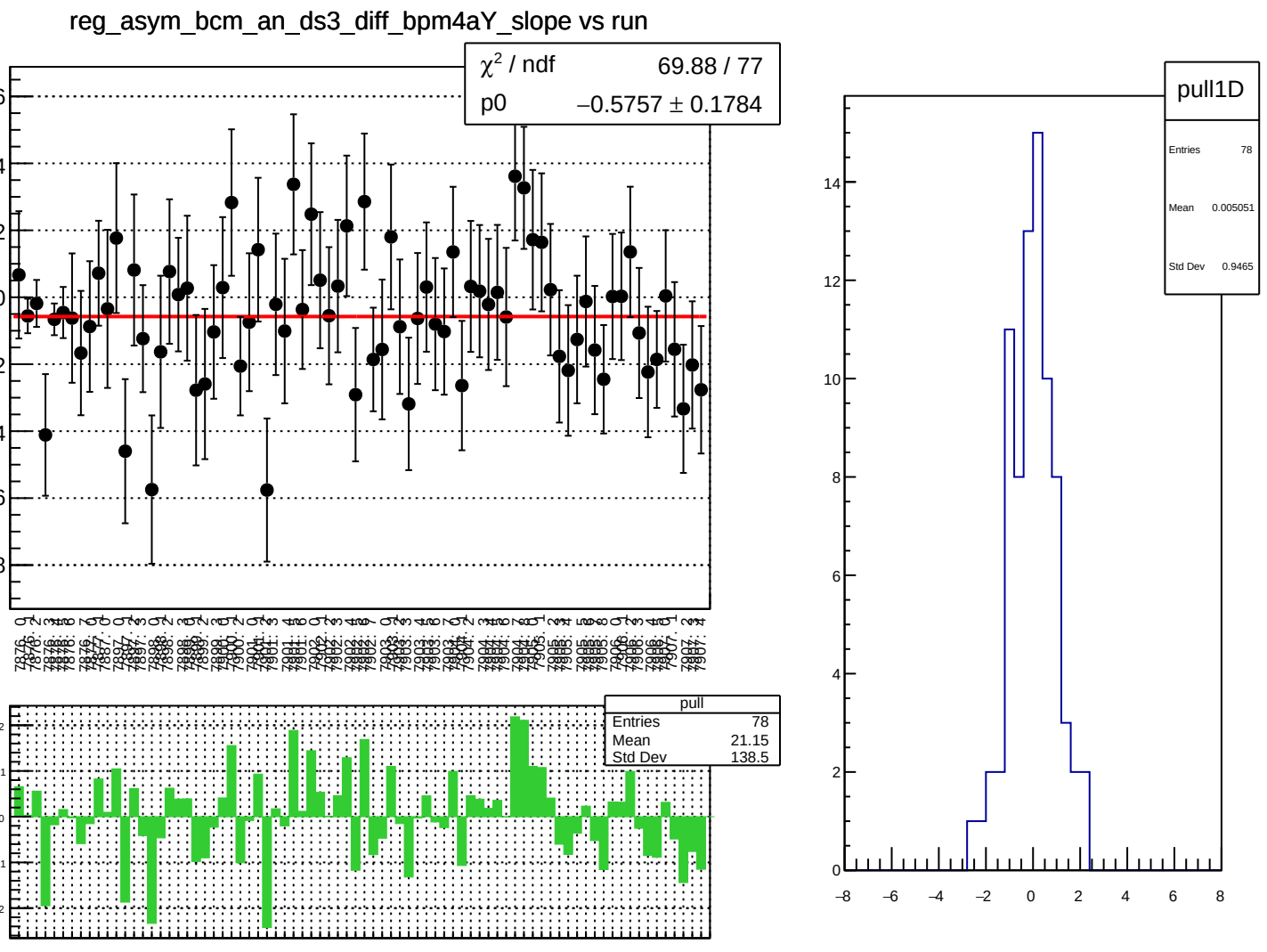

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 242.4 / 77
p0 −64.65 ± 2.016
pull
Entries 78
Mean 48.19
Std Dev 12.05

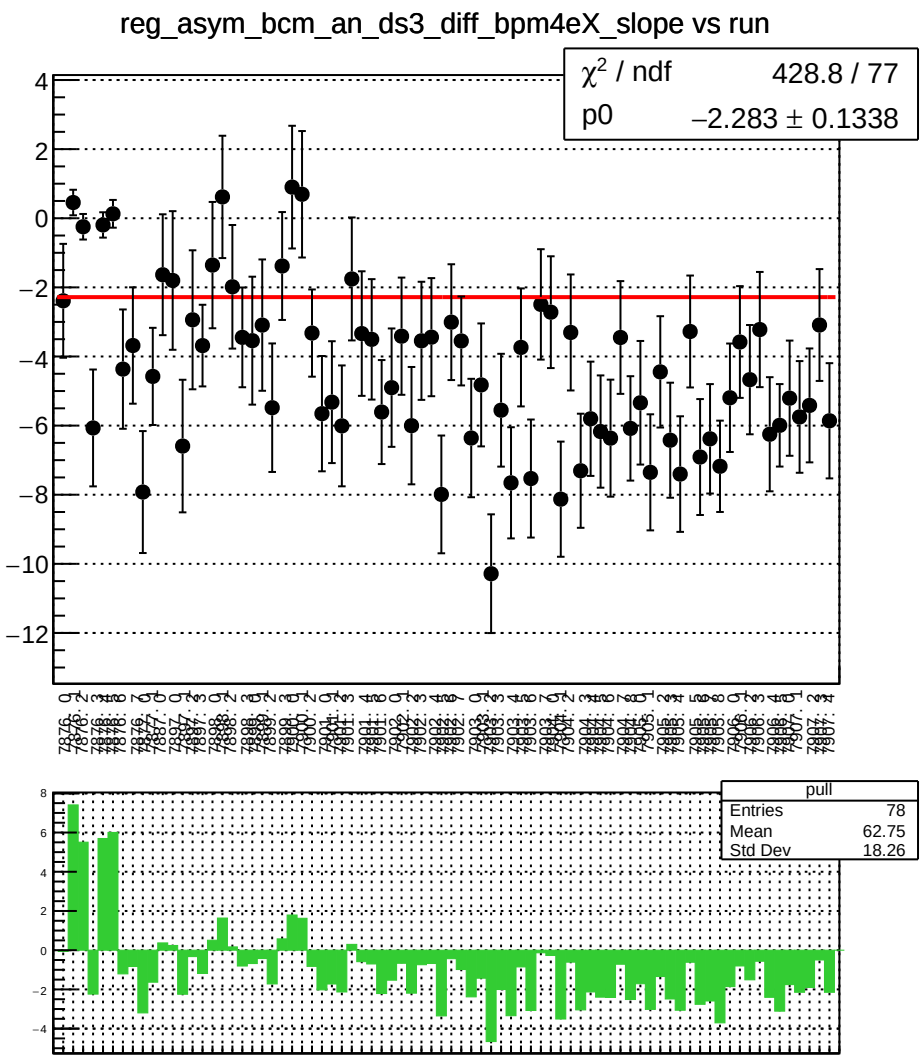

pull1D
Entries 78
Mean 0.9187
Std Dev 1.505

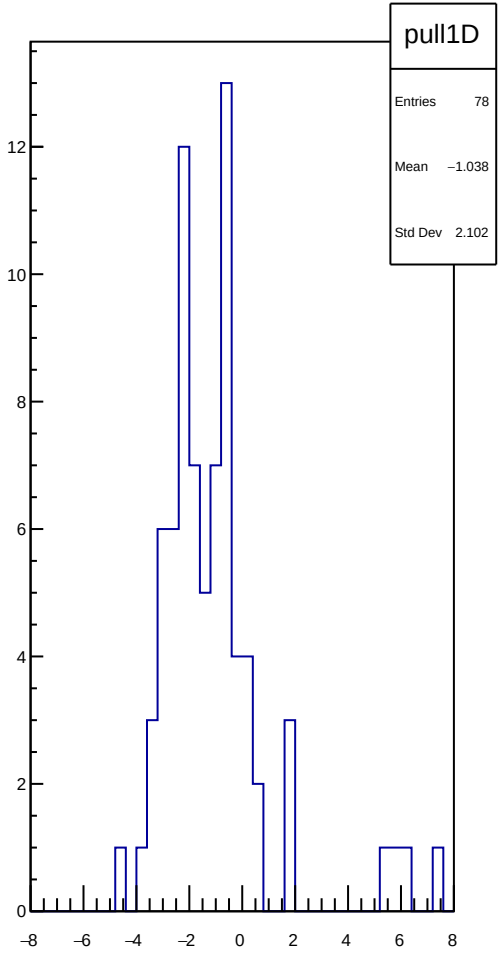

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.52 / 77
p0 2.99 ± 3.473
pull
Entries 78
Mean 32.72
Std Dev 14.28
pull1D
Entries 78
Mean −0.0249
Std Dev 0.6453

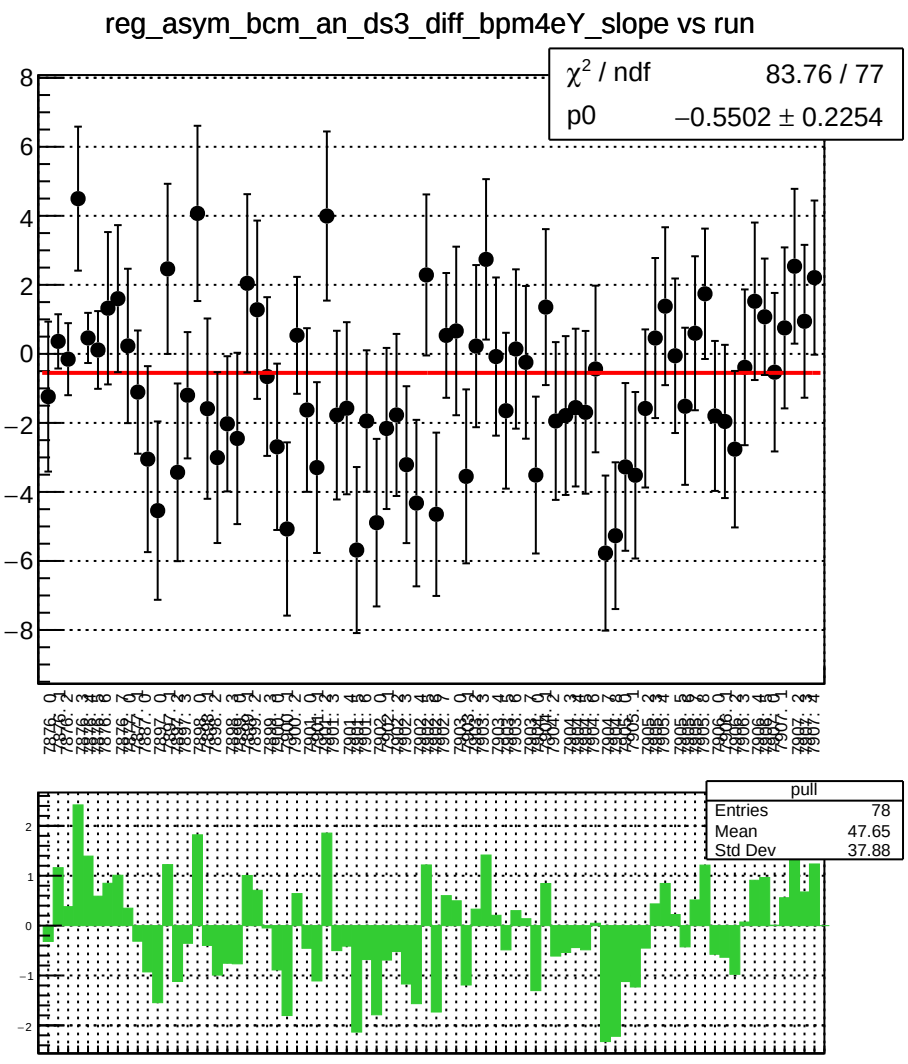

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 254.2 / 77
p0 26.39 ± 0.1225
pull
Entries 78
Mean 157.6
Std Dev 121.2
pull1D
Entries 78
Mean 0.09609
Std Dev 1.803

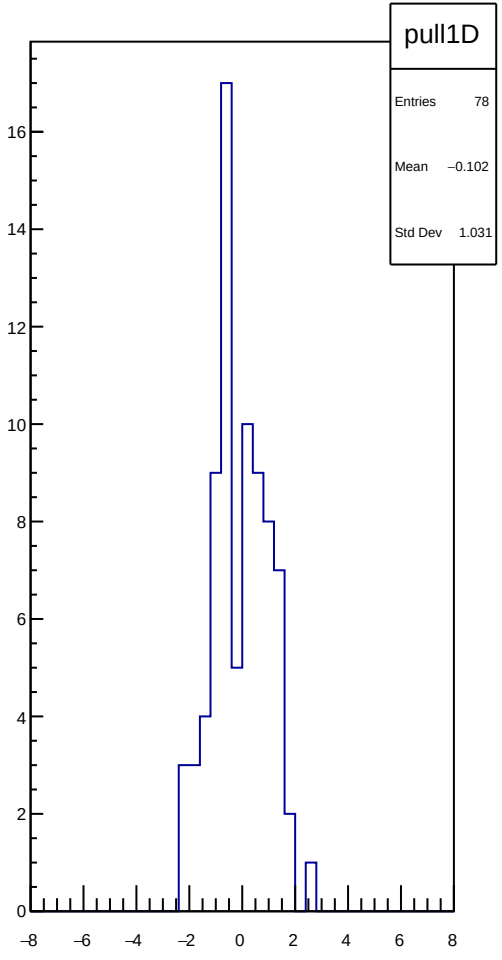

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 379 / 77
p0 2.894 ± 0.1667
pull
Entries 78
Mean 66.21
Std Dev 23.32
pull1D
Entries 78
Mean 0.8752
Std Dev 2.023

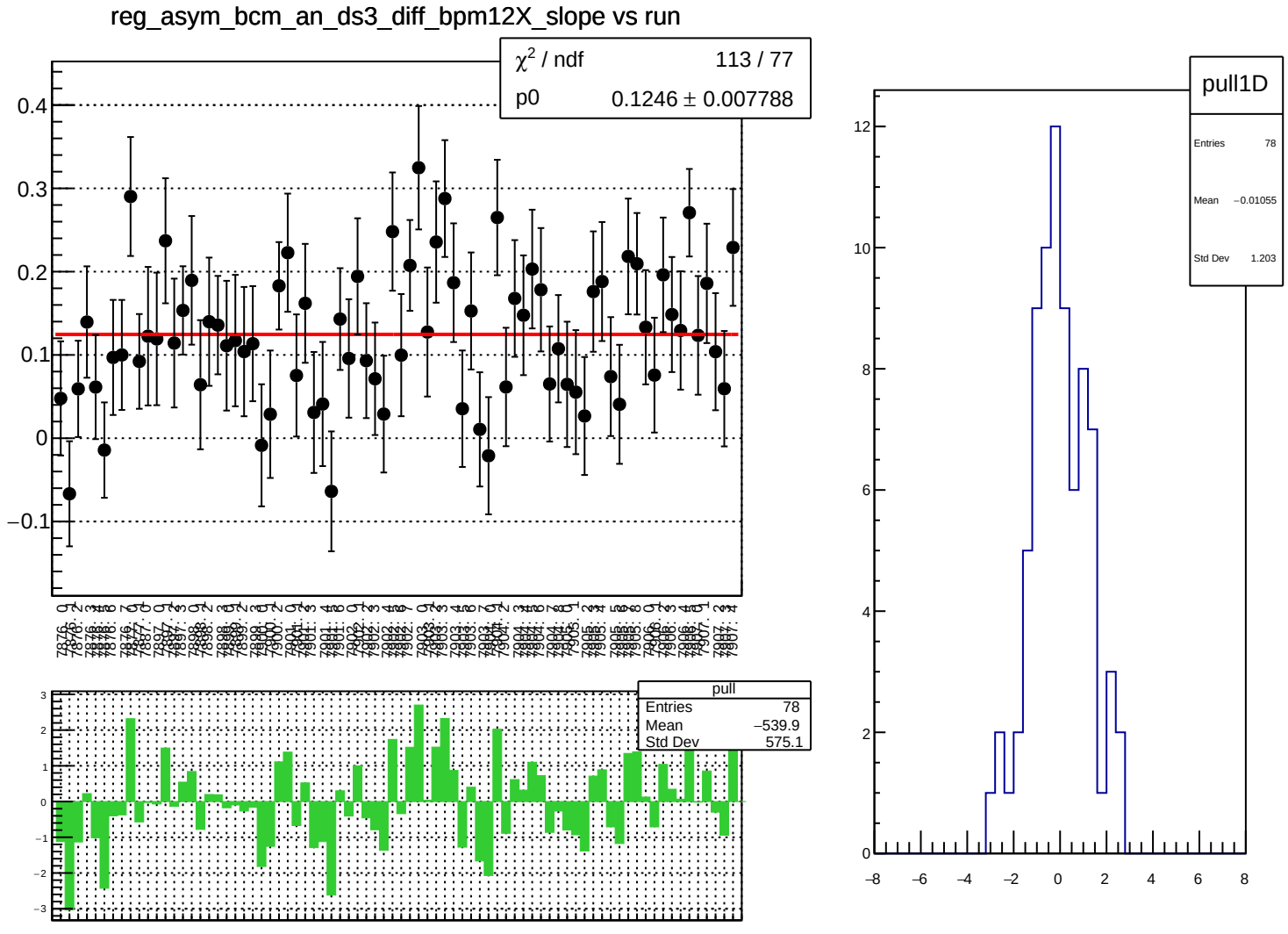

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 69.88 / 77
p0 −0.5757 ± 0.1784
pull
Entries 78
Mean 21.15
Std Dev 138.5
pull1D
Entries 78
Mean 0.005051
Std Dev 0.9465

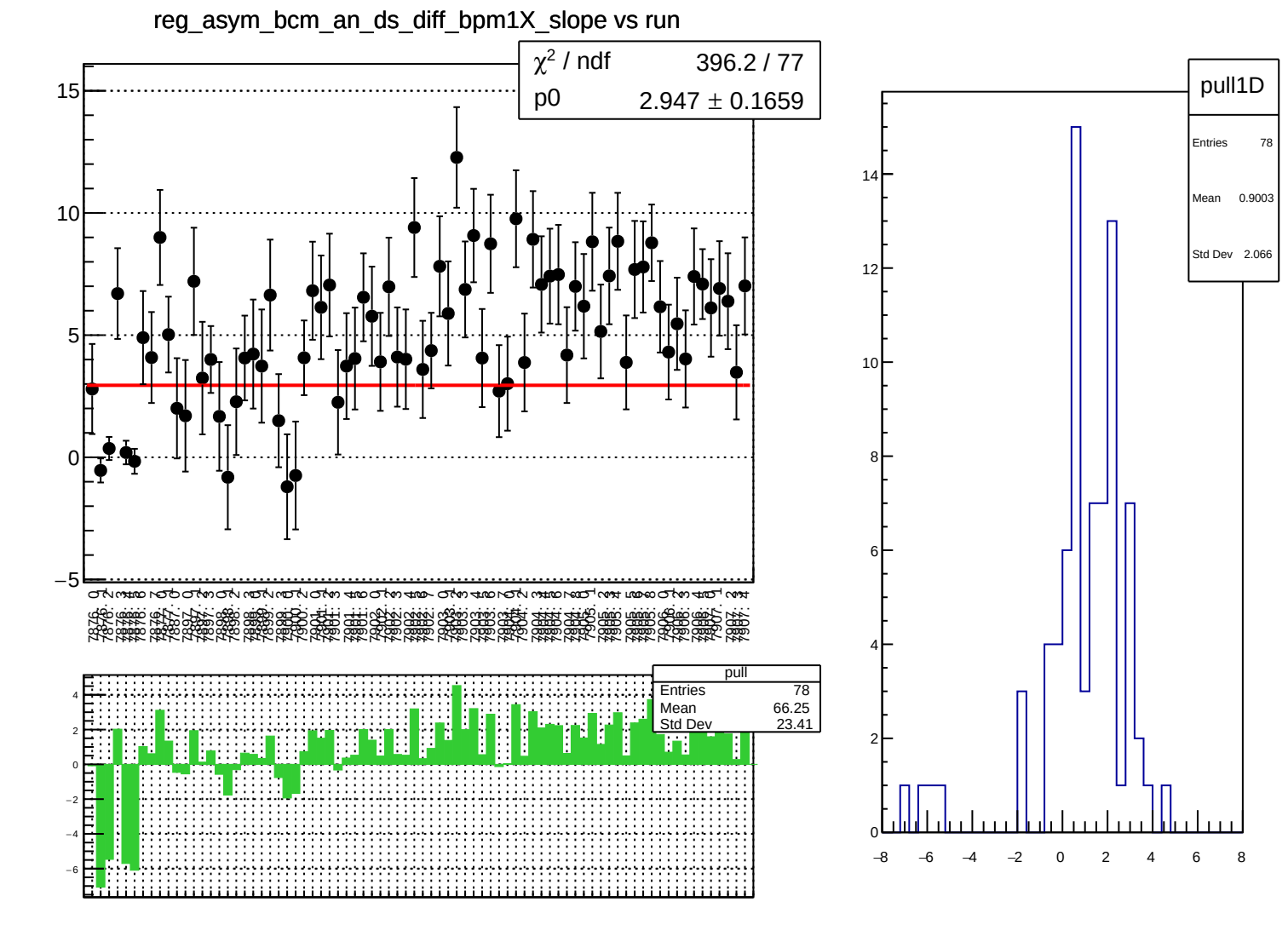

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 428.8 / 77
p0 −2.283 ± 0.1338
pull
Entries 78
Mean 62.75
Std Dev 18.26

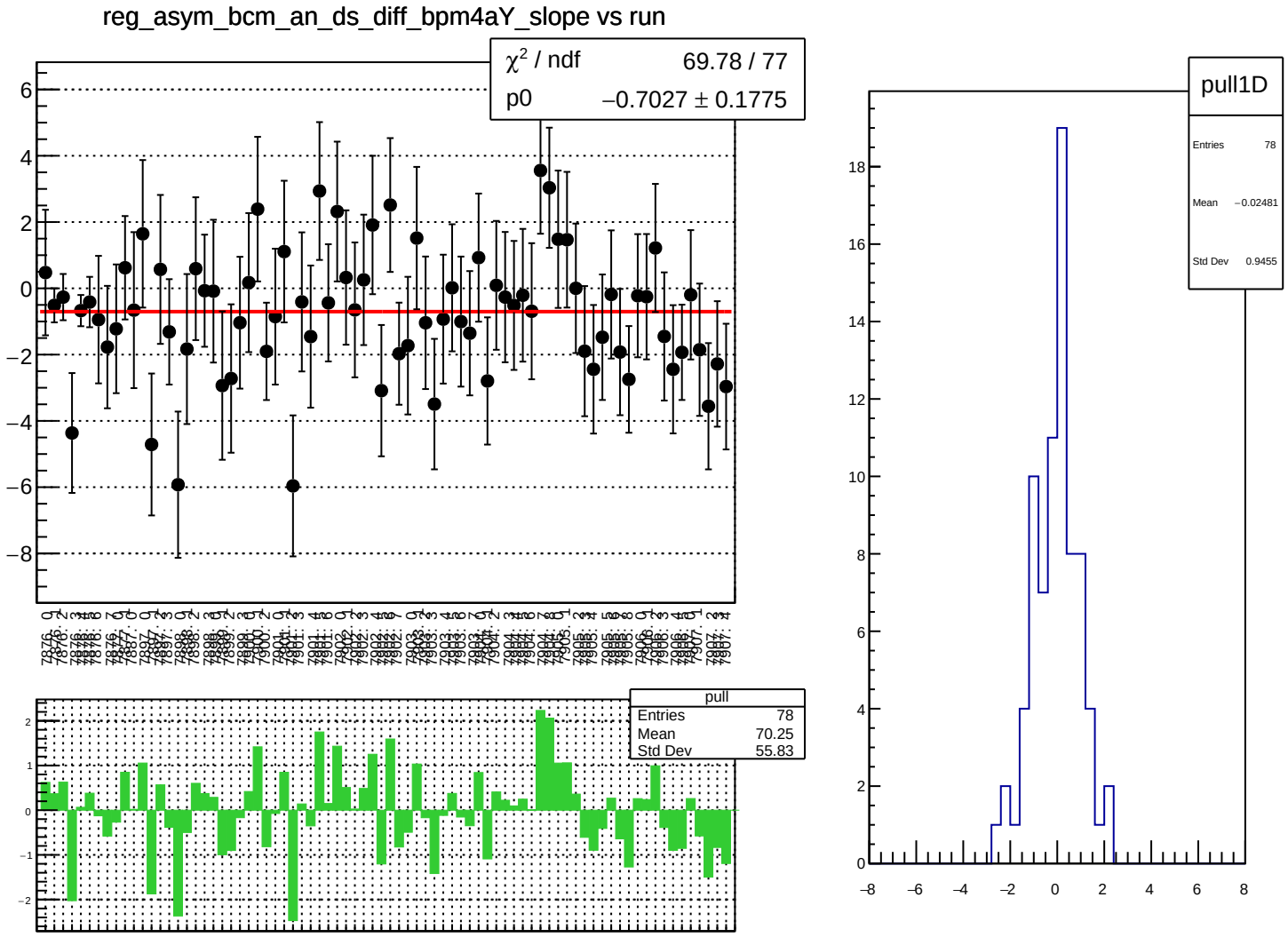

pull1D
Entries 78
Mean −1.038
Std Dev 2.102

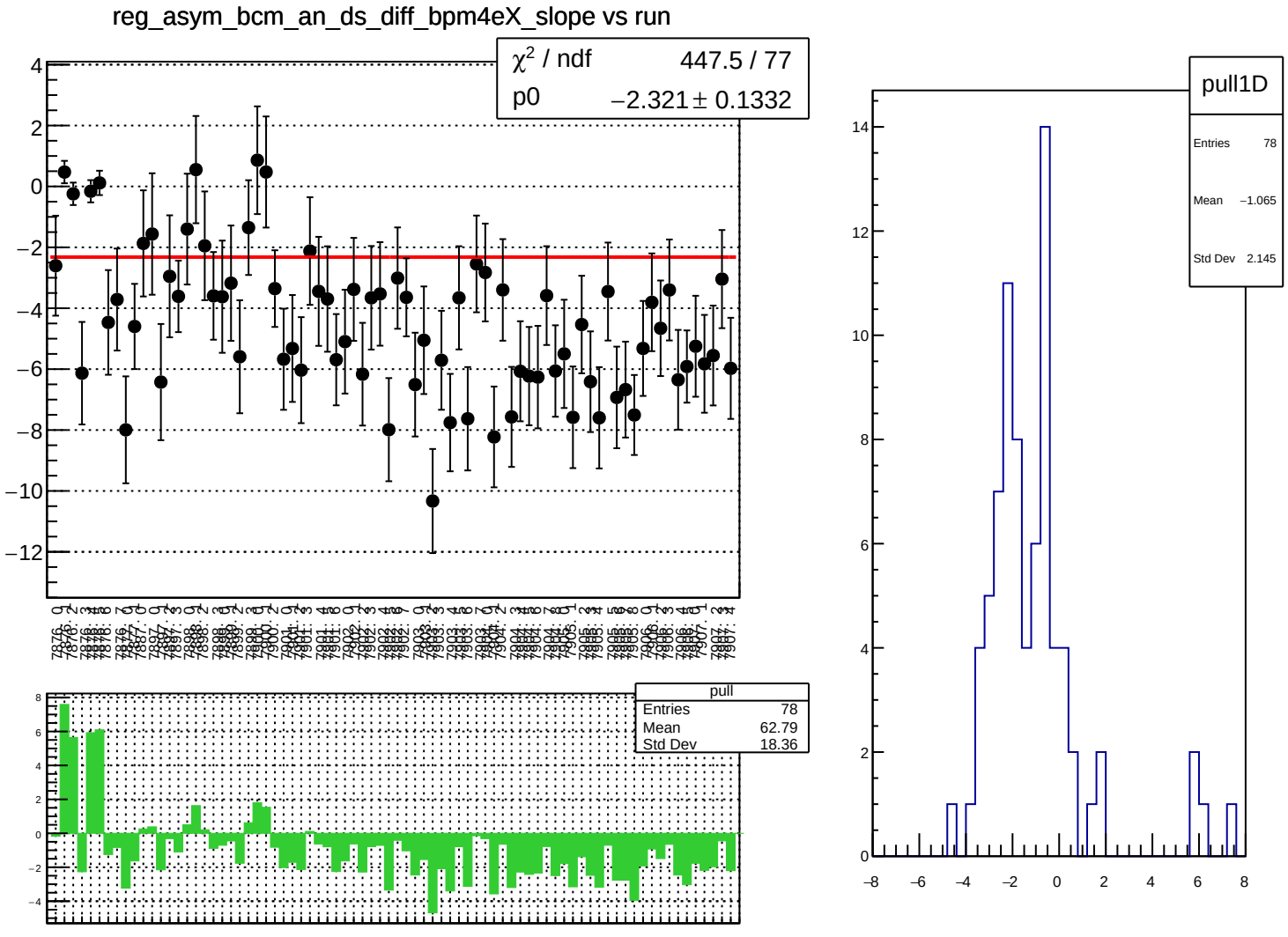

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 83.76 / 77
p0 −0.5502 ± 0.2254
pull
Entries 78
Mean 47.65
Std Dev 37.88

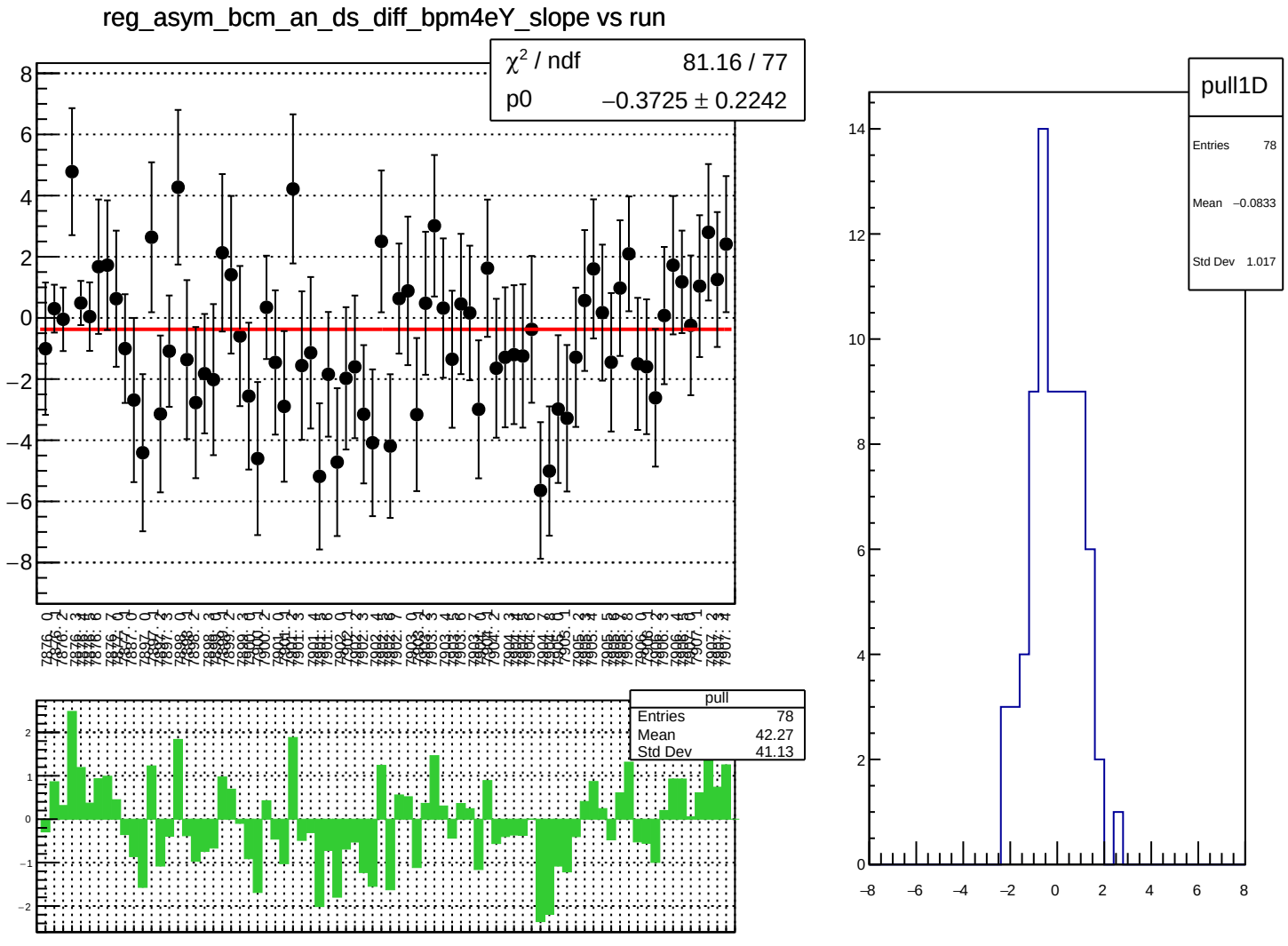

pull1D
Entries 78
Mean −0.102
Std Dev 1.031

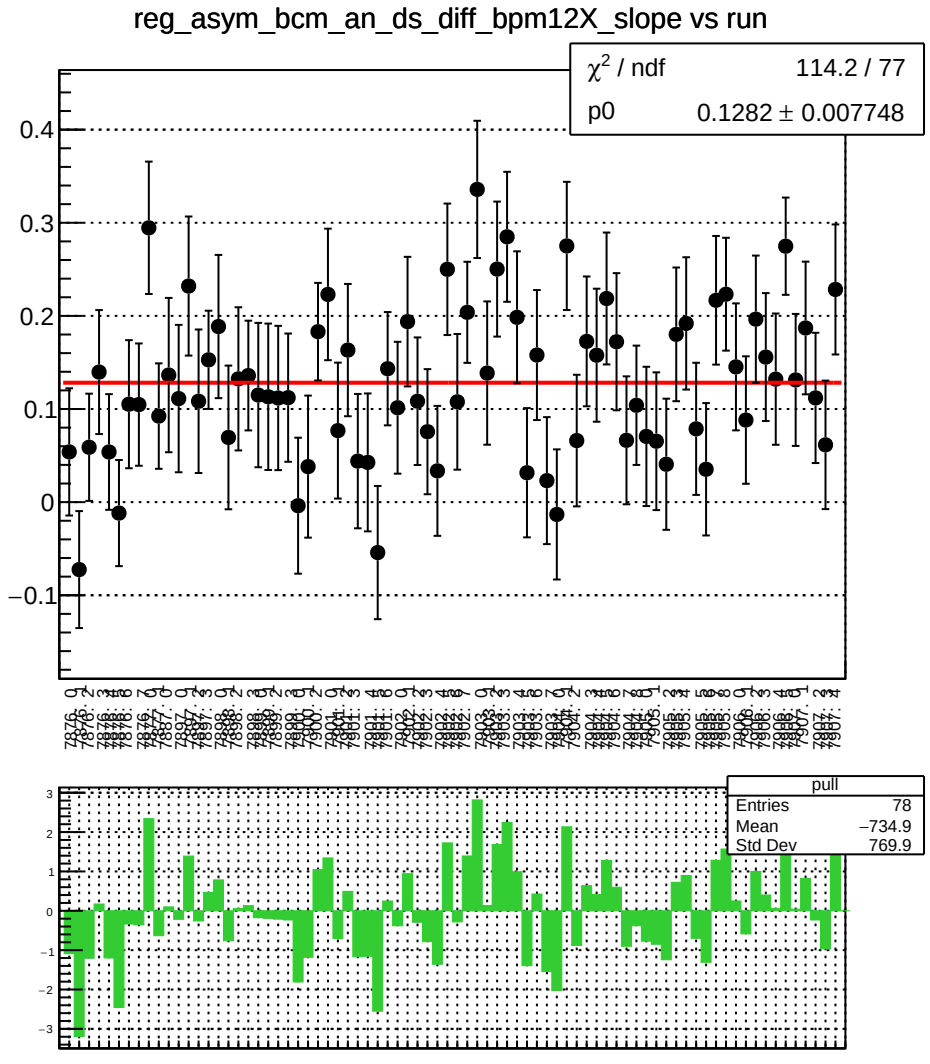

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 113 / 77
p0 0.1246 ± 0.007788
pull
Entries 78
Mean −539.9
Std Dev 575.1
pull1D
Entries 78
Mean −0.01055
Std Dev 1.203

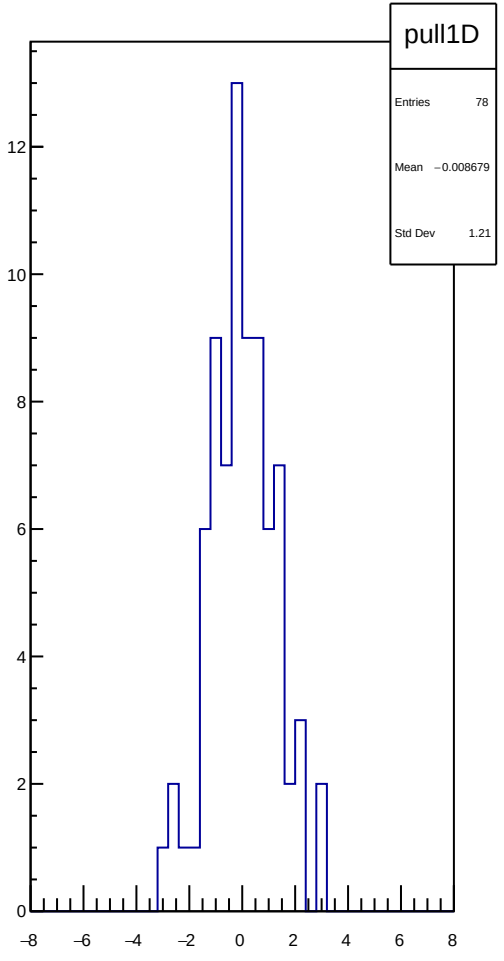

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 396.2 / 77
p0 2.947 ± 0.1659
pull
Entries 78
Mean 66.25
Std Dev 23.41
pull1D
Entries 78
Mean 0.9003
Std Dev 2.066

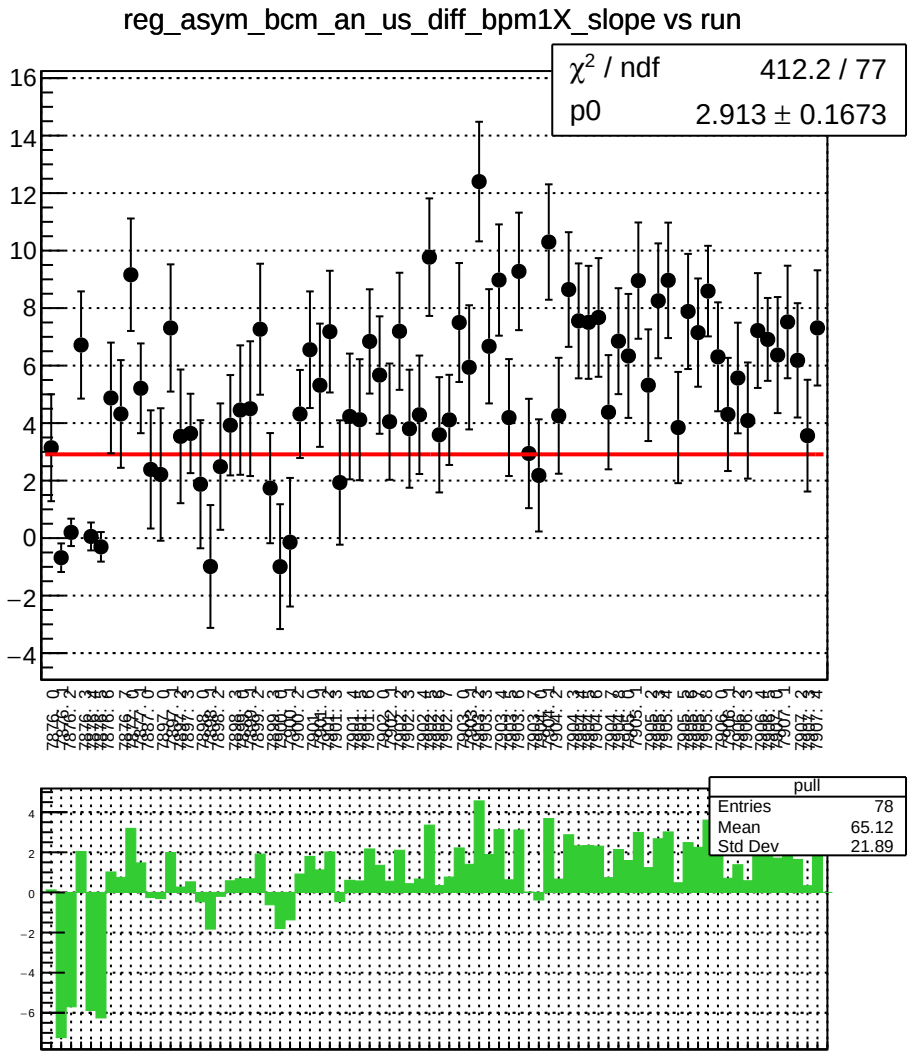

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 69.78 / 77
p0 −0.7027 ± 0.1775
pull
Entries 78
Mean 70.25
Std Dev 55.83
pull1D
Entries 78
Mean −0.02481
Std Dev 0.9455

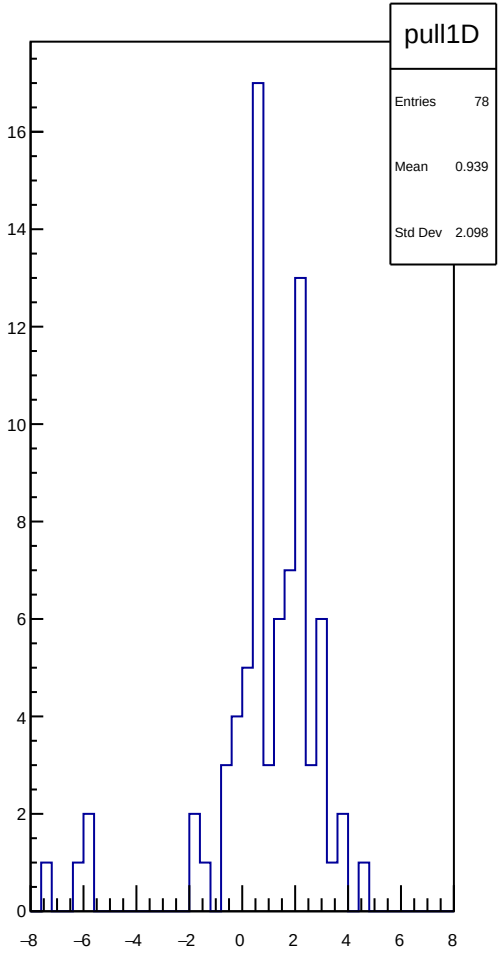

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 447.5 / 77
p0 −2.321 ± 0.1332
pull
Entries 78
Mean 62.79
Std Dev 18.36
pull1D
Entries 78
Mean −1.065
Std Dev 2.145

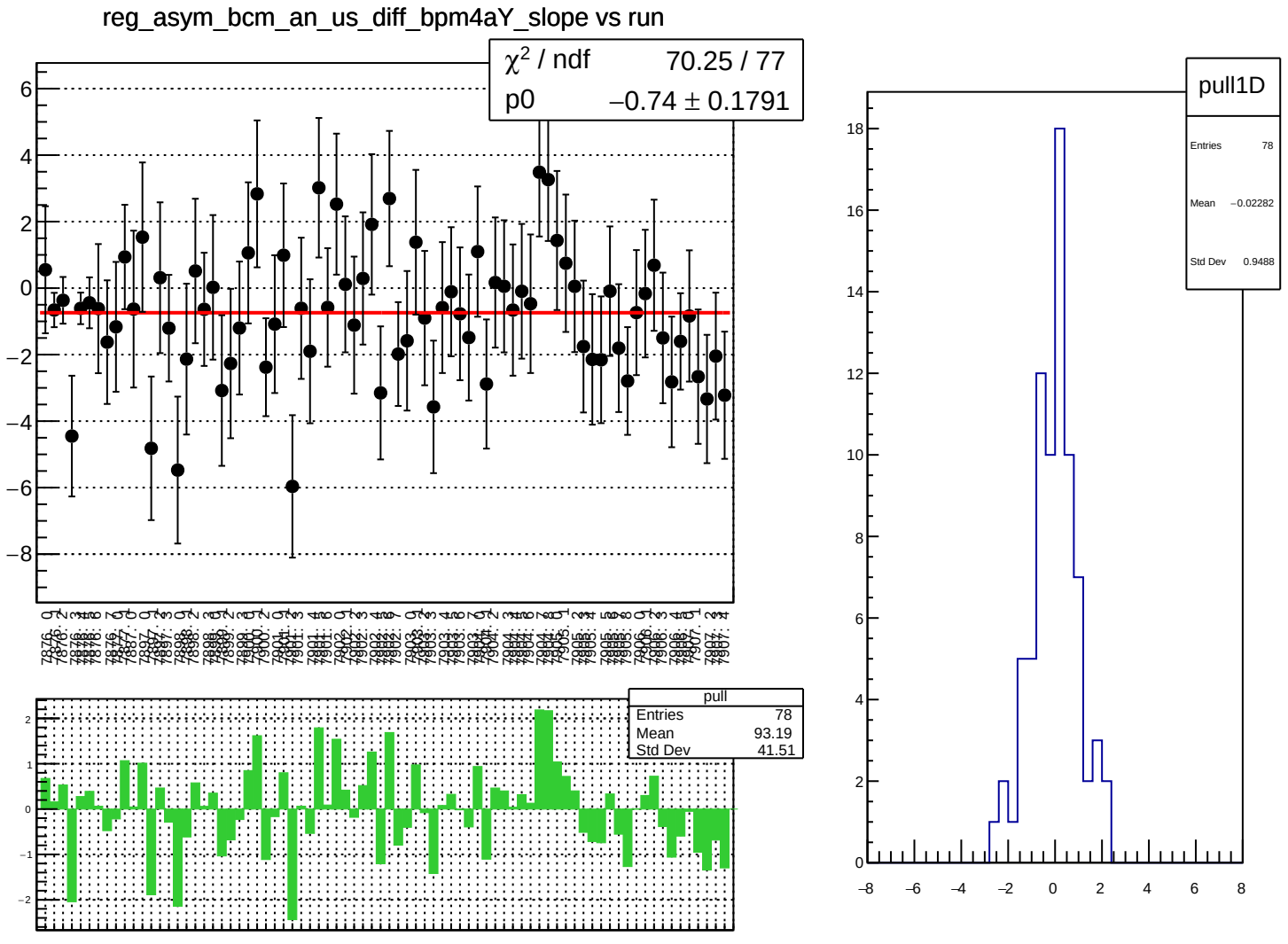

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 81.16 / 77
p0 −0.3725 ± 0.2242
pull
Entries 78
Mean 42.27
Std Dev 41.13
pull1D
Entries 78
Mean −0.0833
Std Dev 1.017

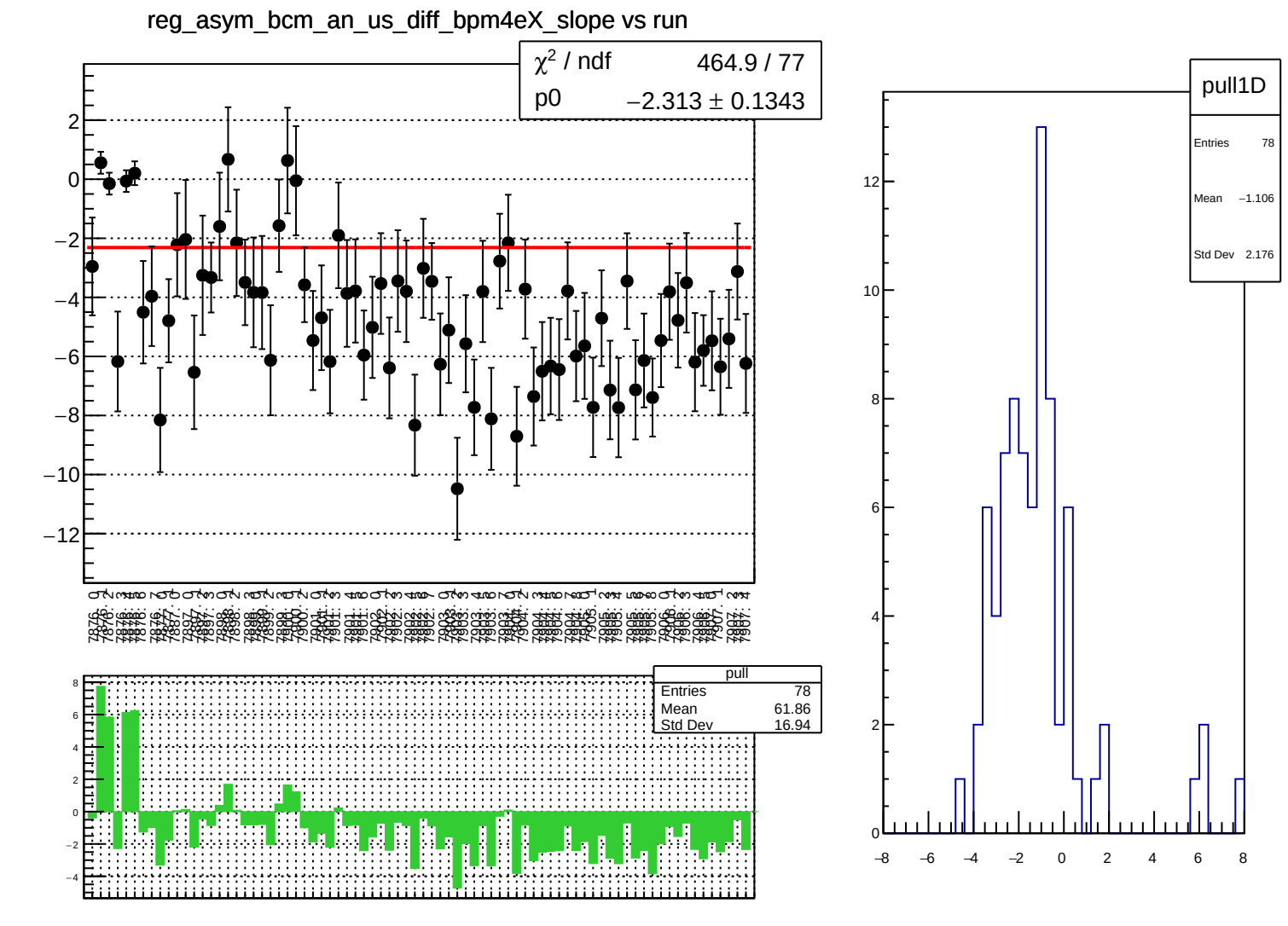

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 114.2 / 77
p0 0.1282 ± 0.007748
pull
Entries 78
Mean −734.9
Std Dev 769.9

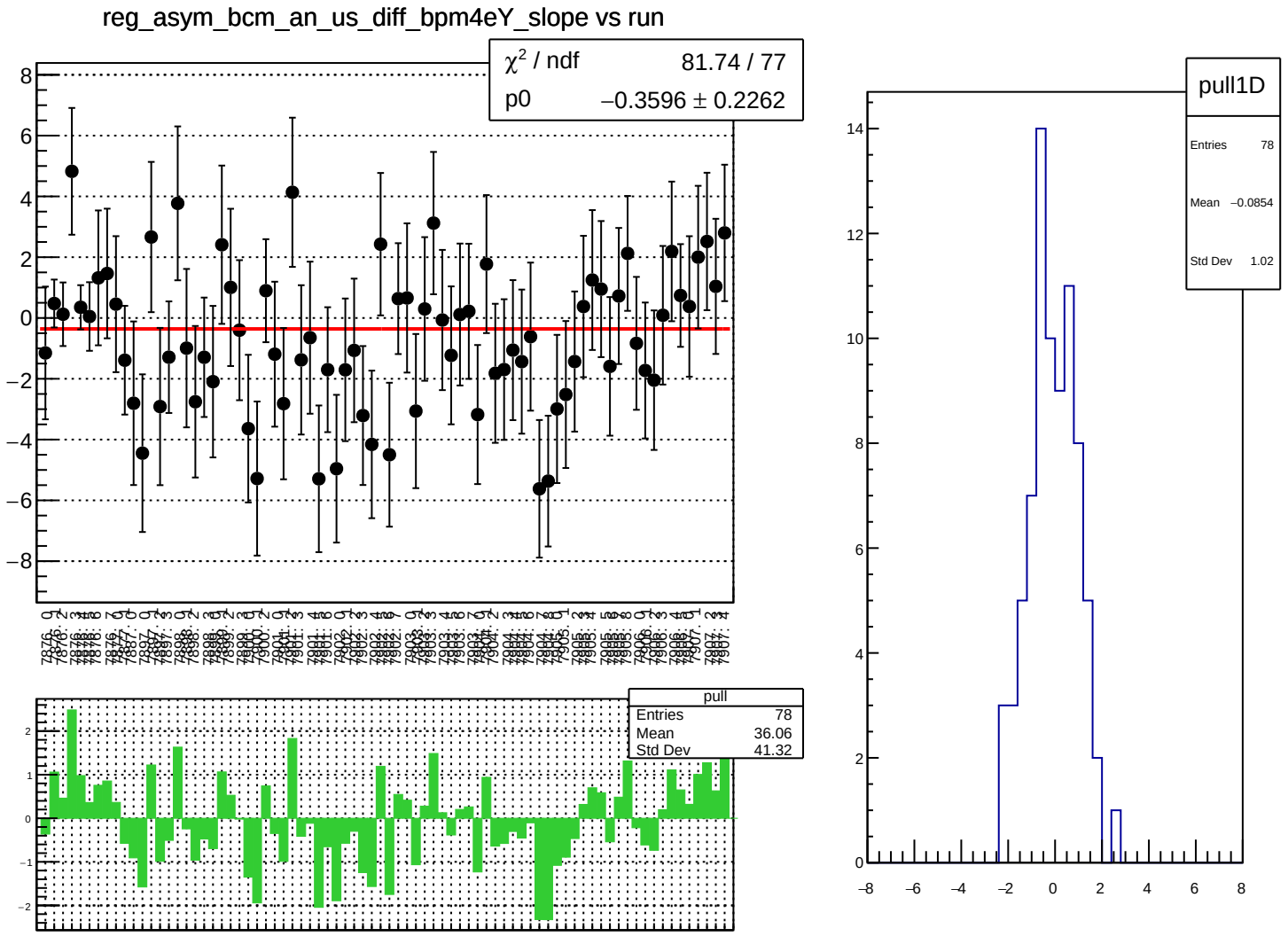

pull1D
Entries 78
Mean −0.008679
Std Dev 1.21

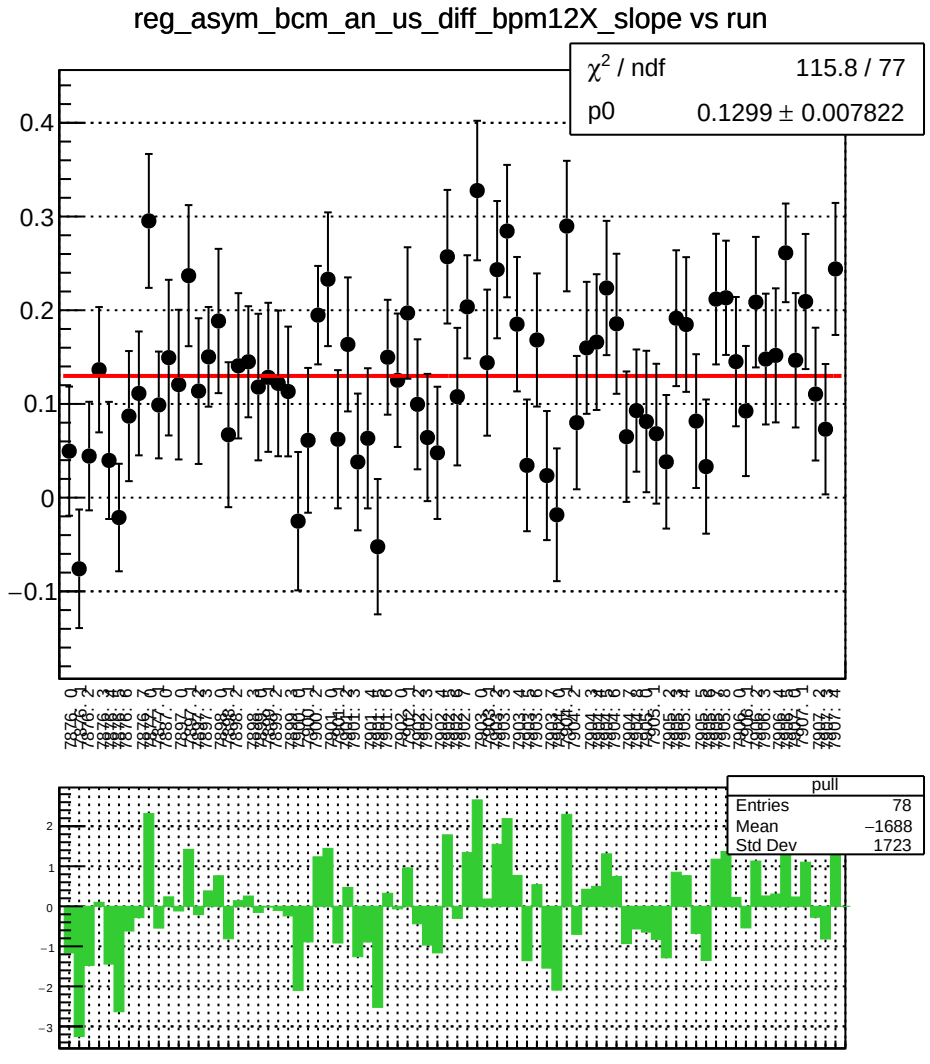

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 412.2 / 77
p0 2.913 ± 0.1673
pull
Entries 78
Mean 65.12
Std Dev 21.89

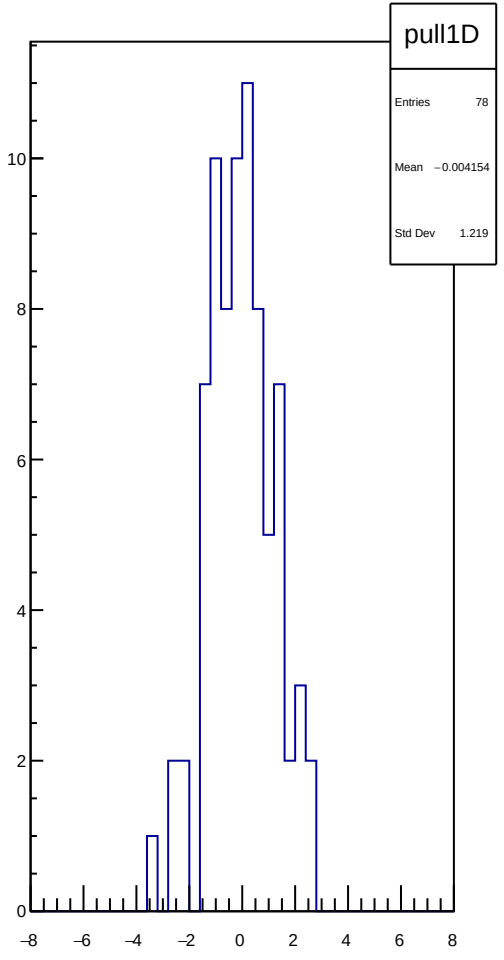

pull1D
Entries 78
Mean 0.939
Std Dev 2.098

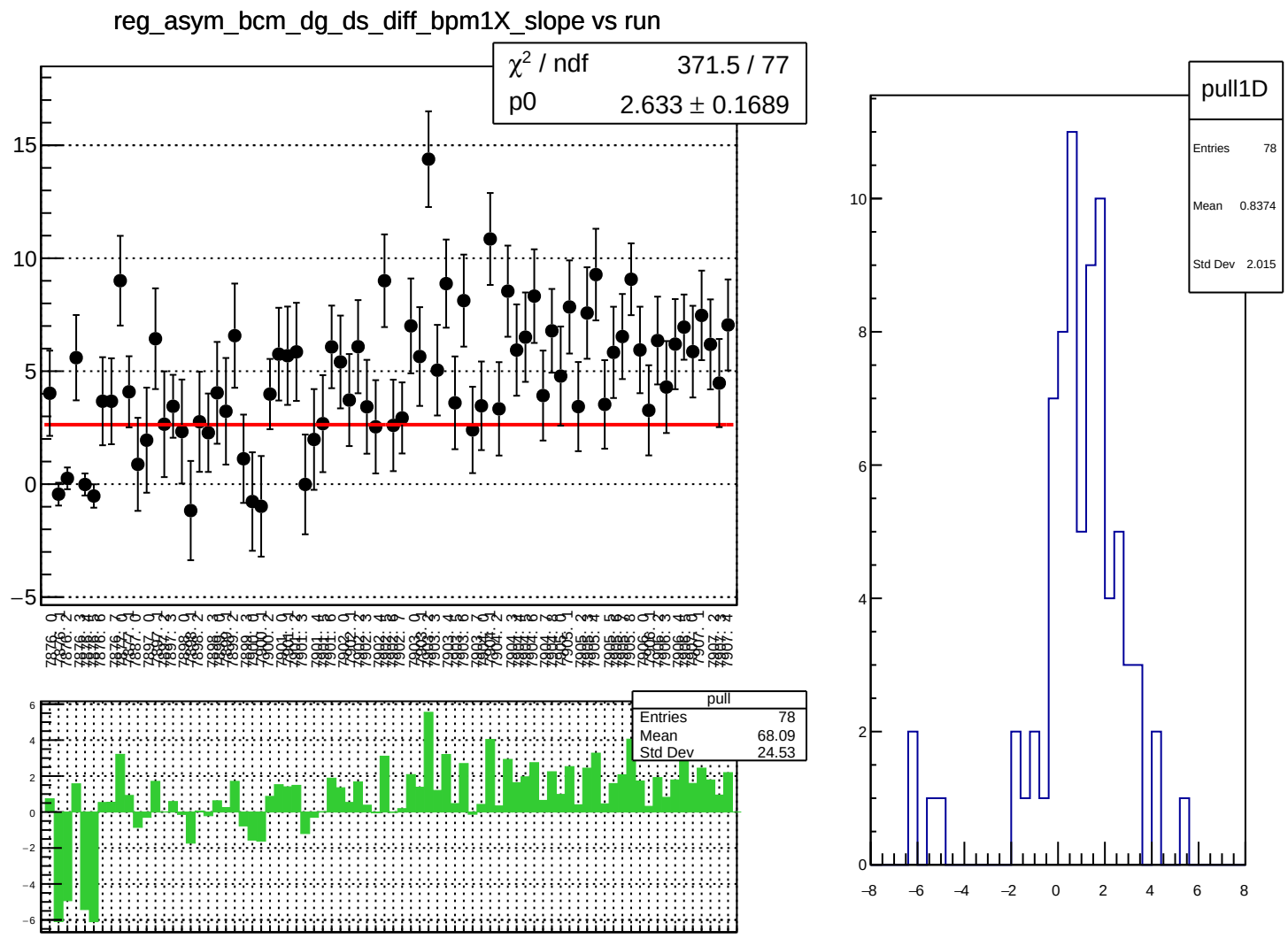

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 70.25 / 77
p0 −0.74 ± 0.1791
pull
Entries 78
Mean 93.19
Std Dev 41.51
pull1D
Entries 78
Mean −0.02282
Std Dev 0.9488

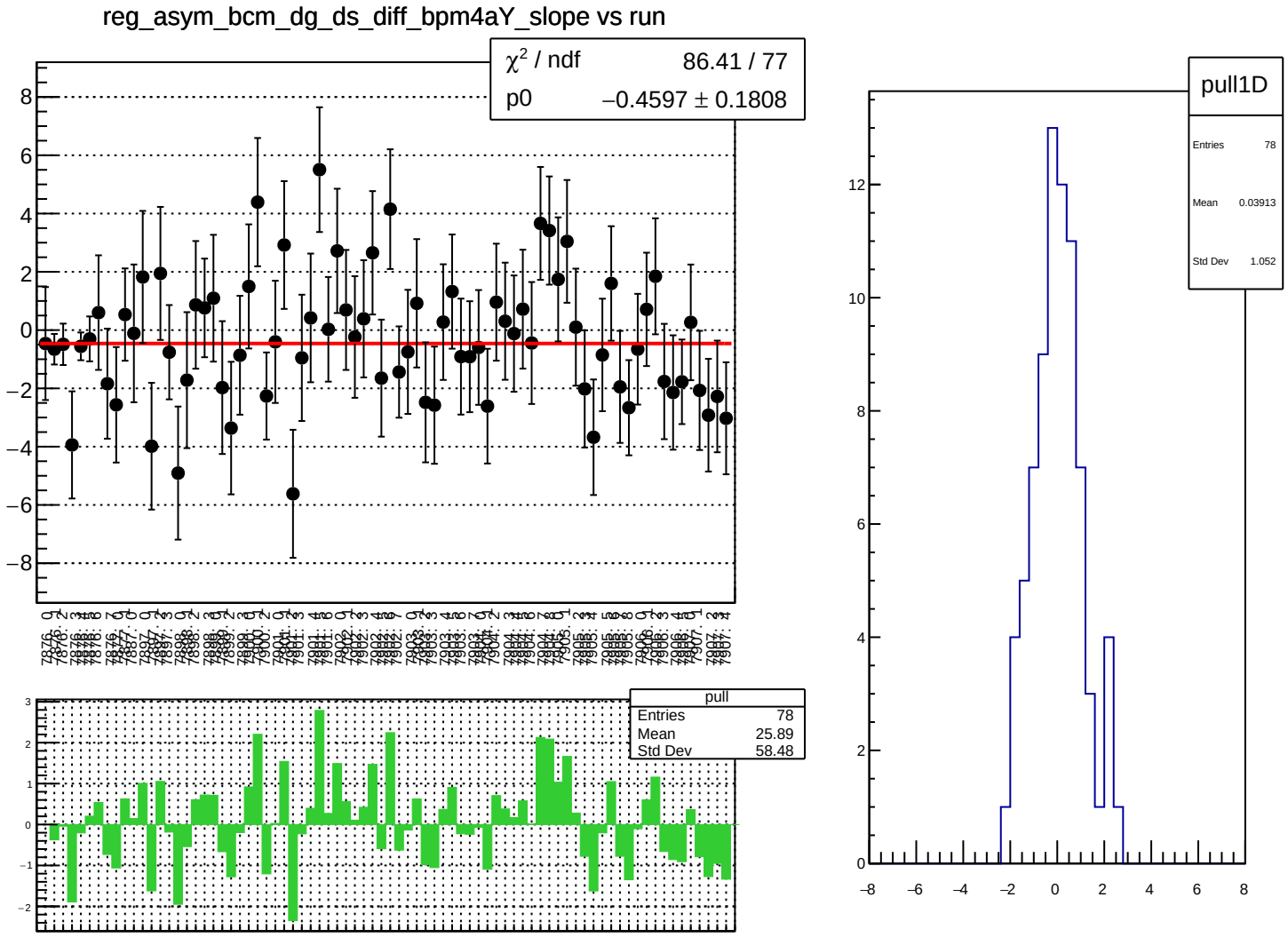

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 464.9 / 77
p0 −2.313 ± 0.1343
pull
Entries 78
Mean 61.86
Std Dev 16.94
pull1D
Entries 78
Mean −1.106
Std Dev 2.176

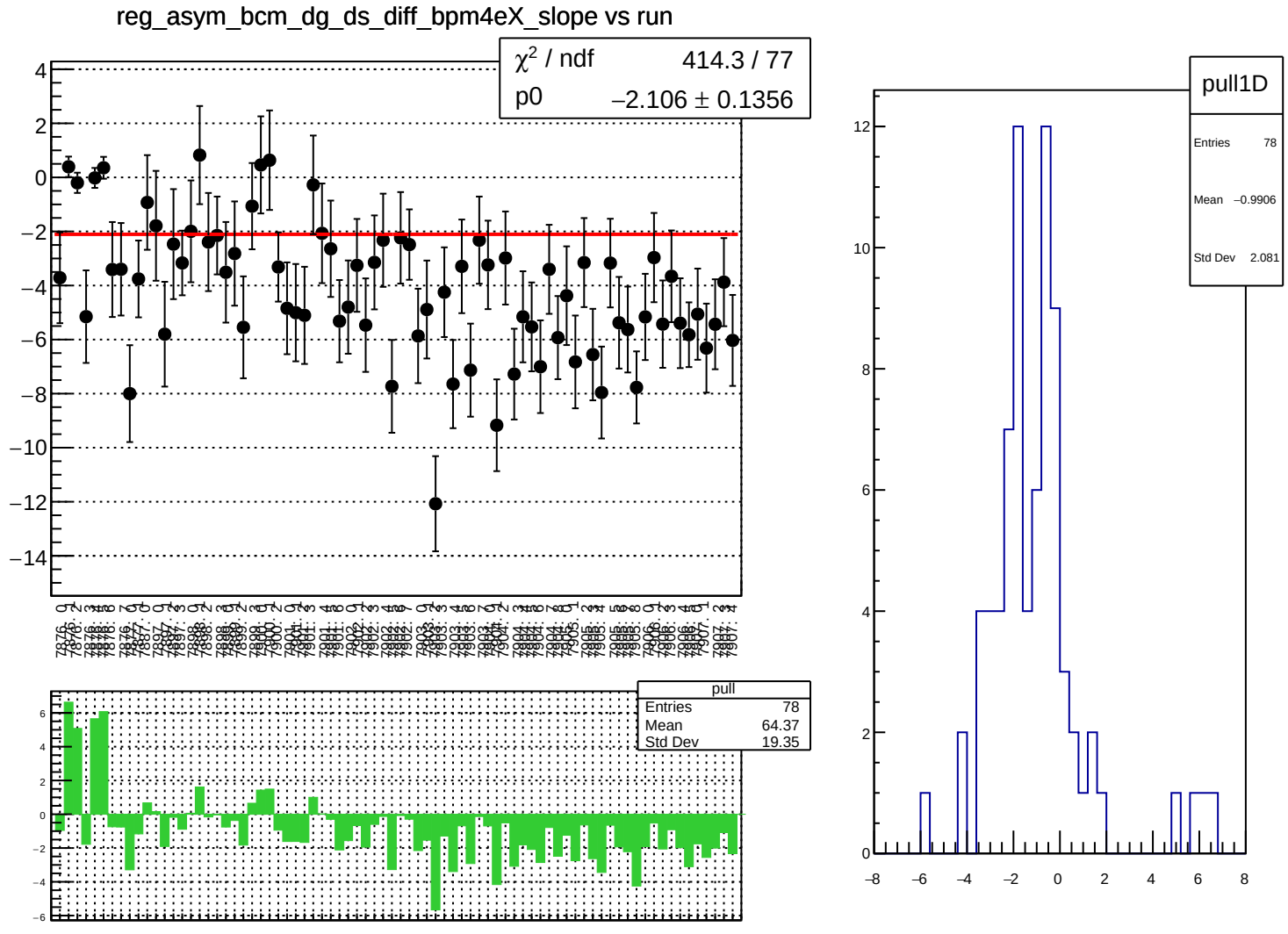

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 81.74 / 77
p0 −0.3596 ± 0.2262
pull
Entries 78
Mean 36.06
Std Dev 41.32
pull1D
Entries 78
Mean −0.0854
Std Dev 1.02

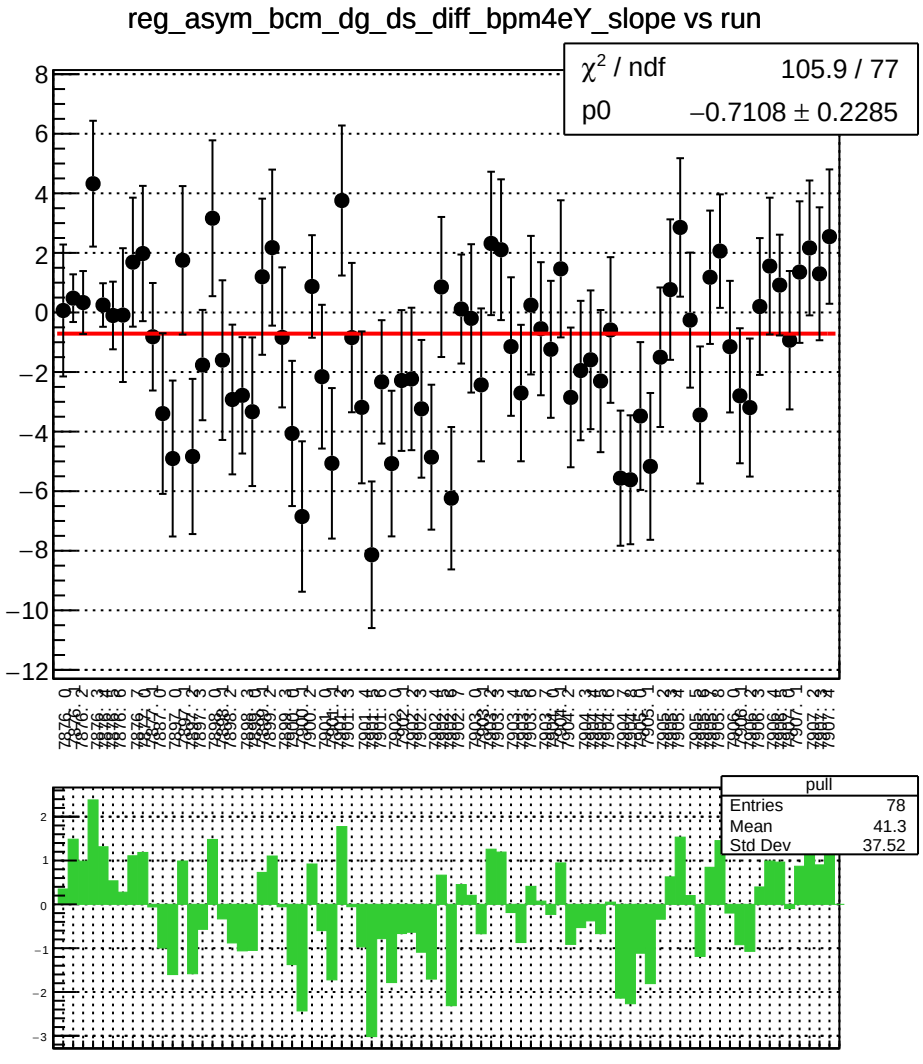

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 115.8 / 77
p0 0.1299 ± 0.007822
pull
Entries 78
Mean −1688
Std Dev 1723

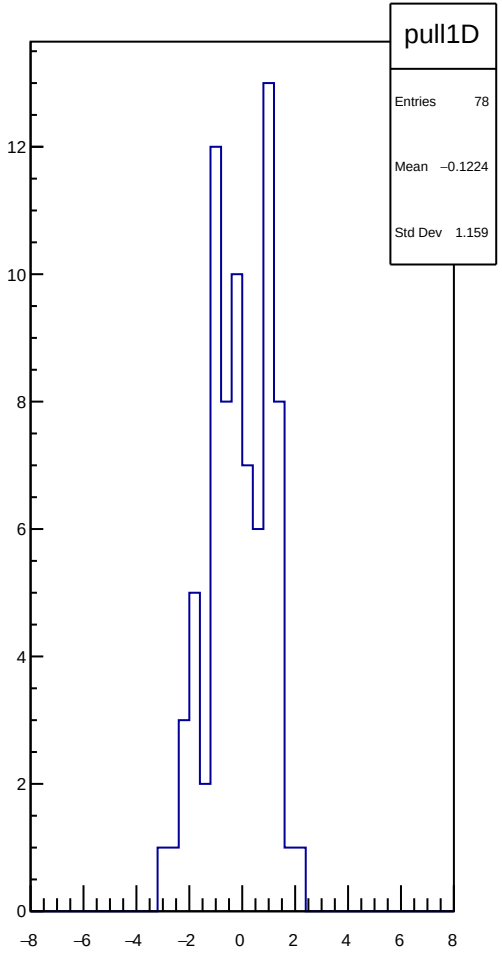

pull1D
Entries 78
Mean −0.004154
Std Dev 1.219

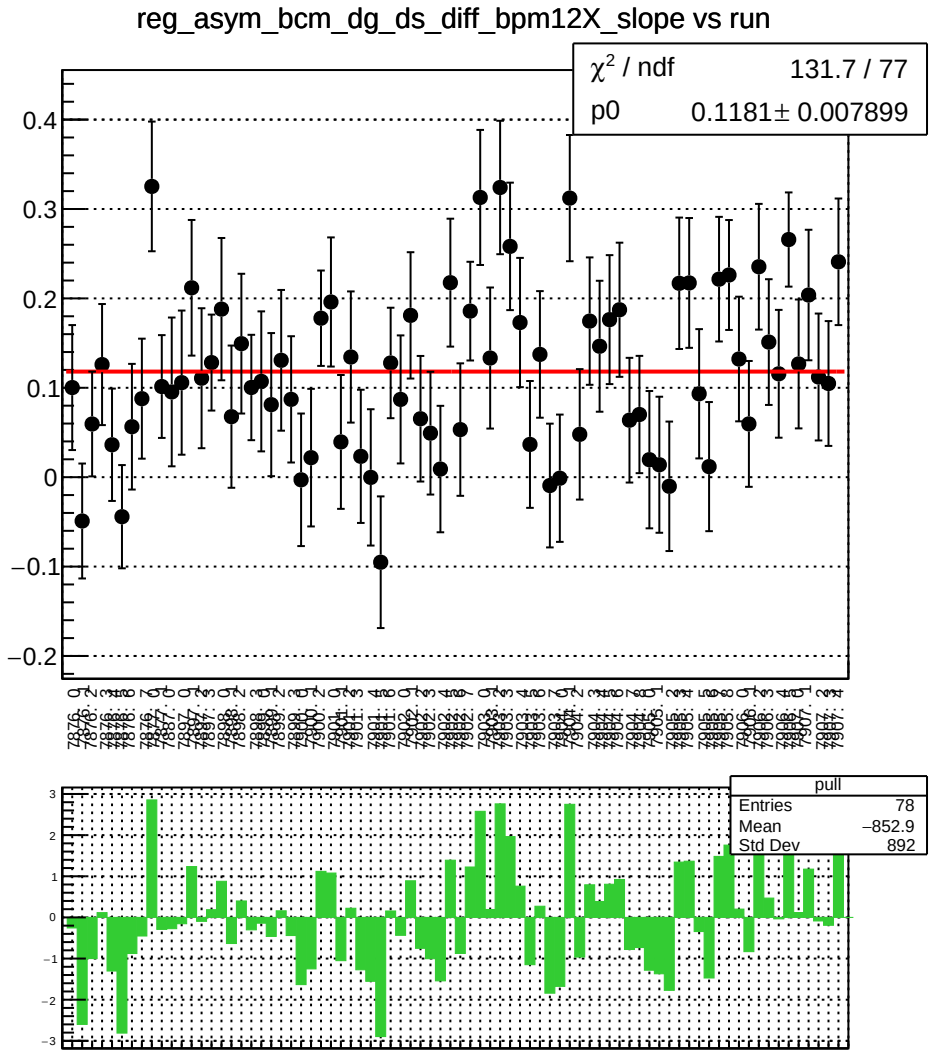

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 371.5 / 77
p0 2.633 ± 0.1689
pull
Entries 78
Mean 68.09
Std Dev 24.53
pull1D
Entries 78
Mean 0.8374
Std Dev 2.015

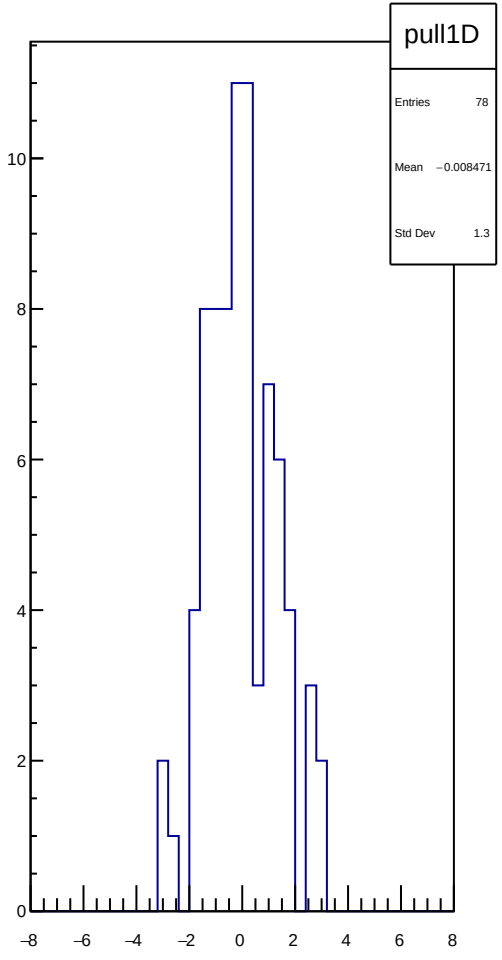

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 86.41 / 77
p0 −0.4597 ± 0.1808
pull
Entries 78
Mean 25.89
Std Dev 58.48
pull1D
Entries 78
Mean 0.03913
Std Dev 1.052

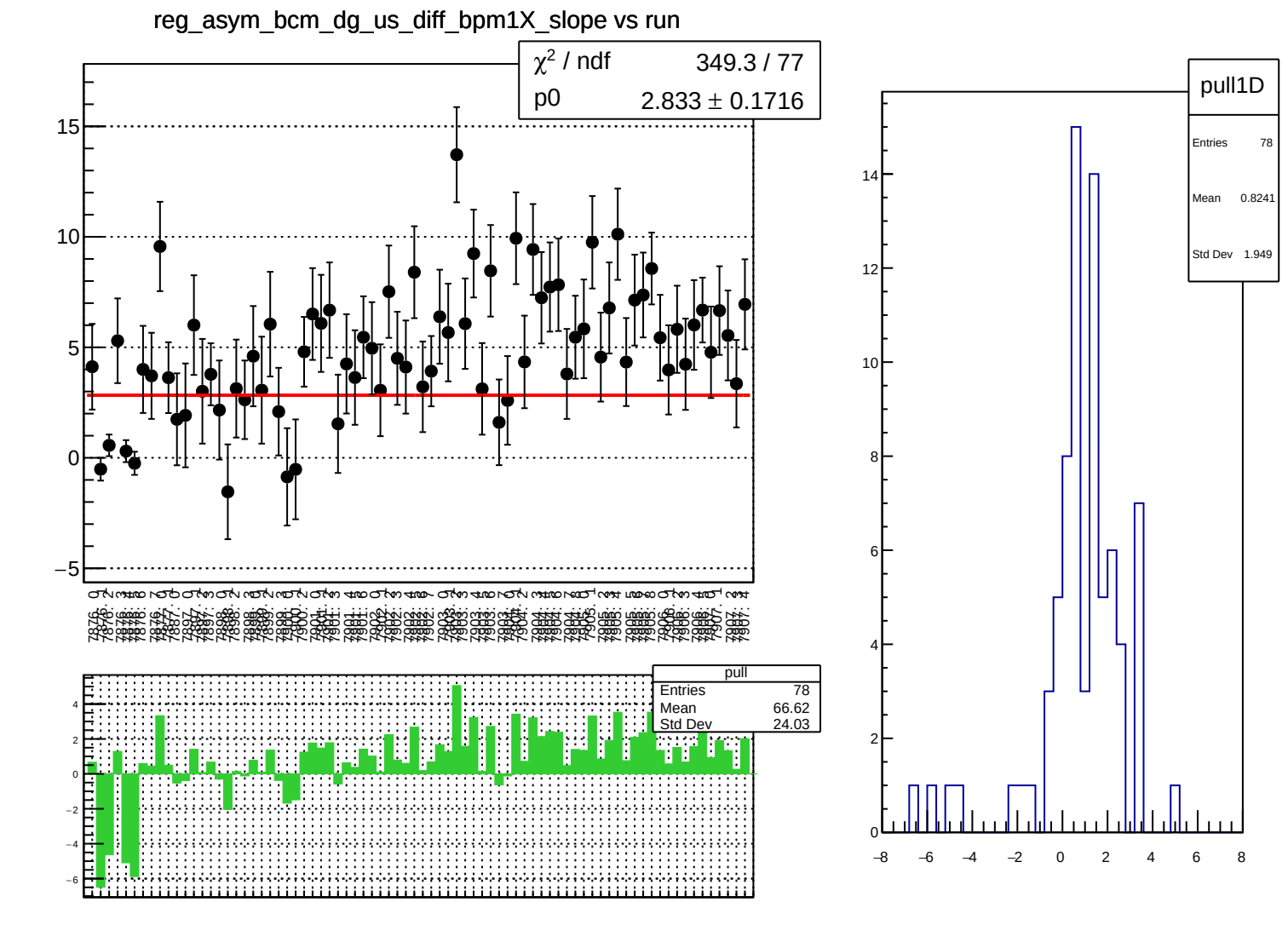

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 414.3 / 77
p0 −2.106 ± 0.1356
pull
Entries 78
Mean 64.37
Std Dev 19.35
pull1D
Entries 78
Mean −0.9906
Std Dev 2.081

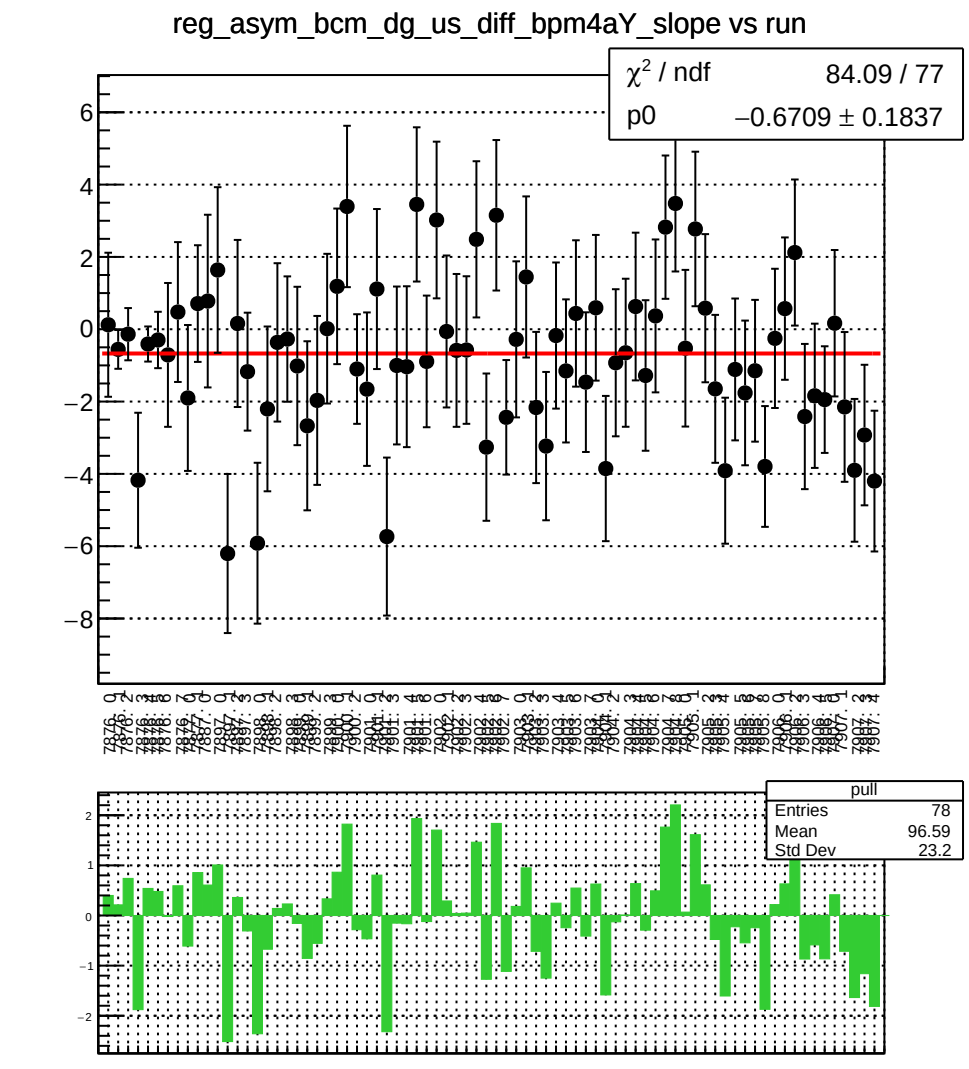

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 105.9 / 77
p0 −0.7108 ± 0.2285
pull
Entries 78
Mean 41.3
Std Dev 37.52

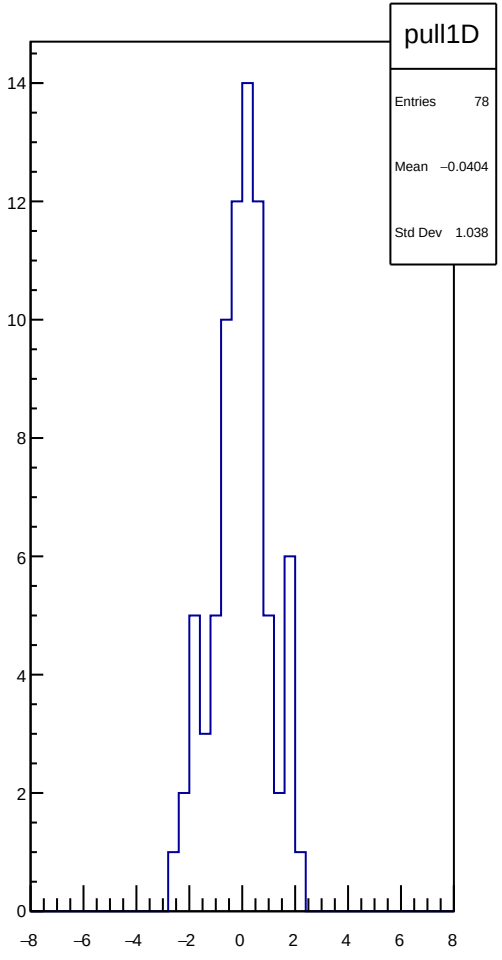

pull1D
Entries 78
Mean −0.1224
Std Dev 1.159

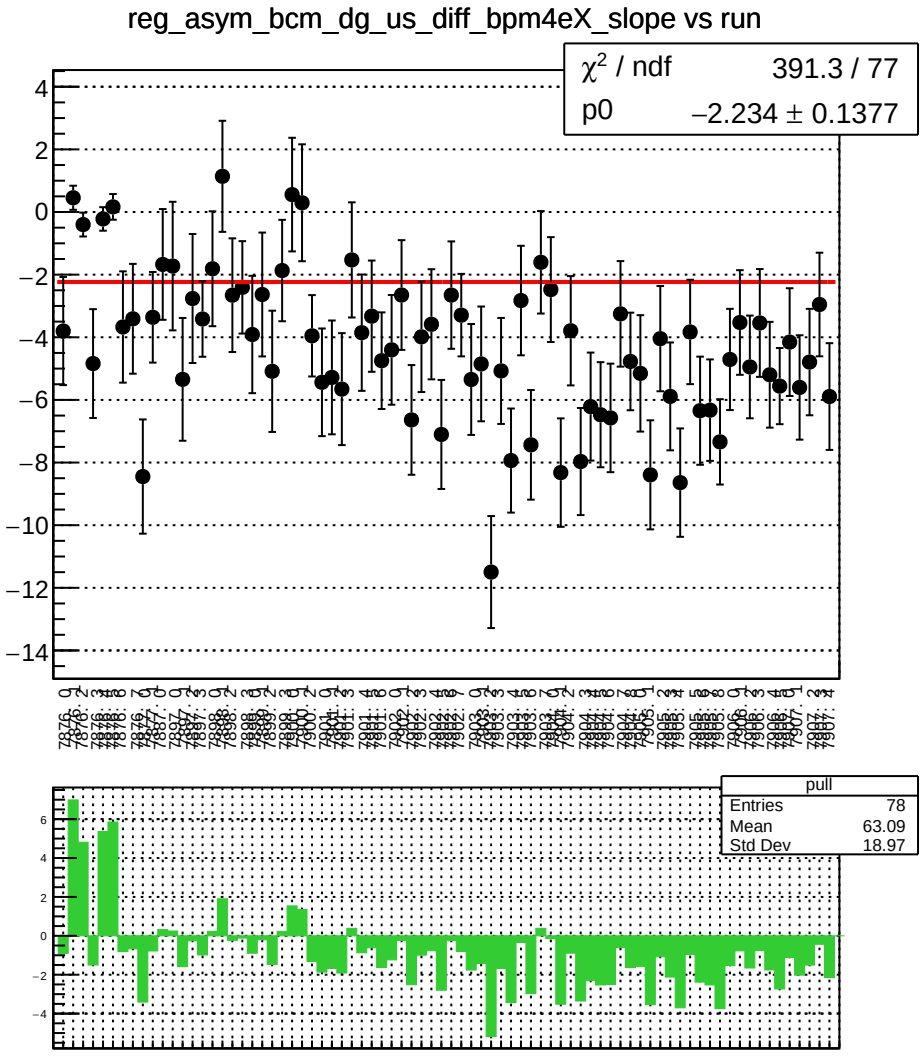

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 131.7 / 77
p0 0.1181± 0.007899
pull
Entries 78
Mean −852.9
Std Dev 892

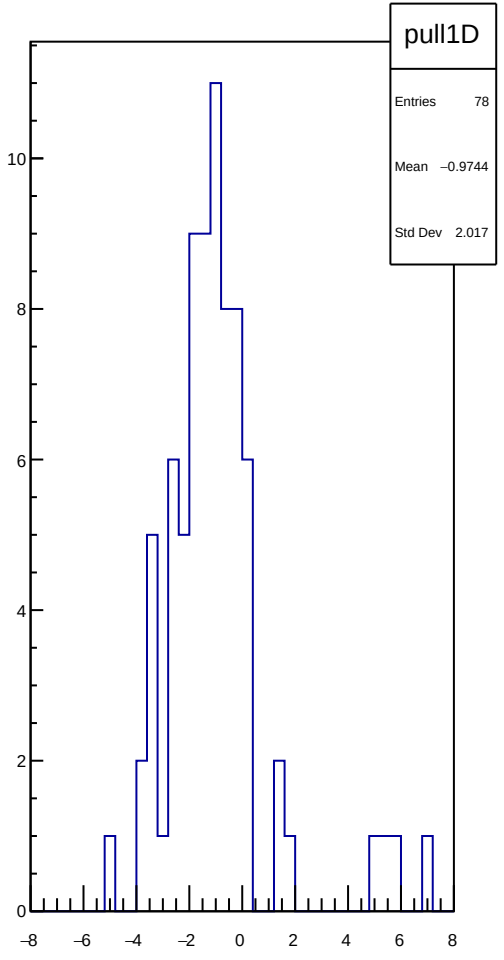

pull1D
Entries 78
Mean −0.008471
Std Dev 1.3

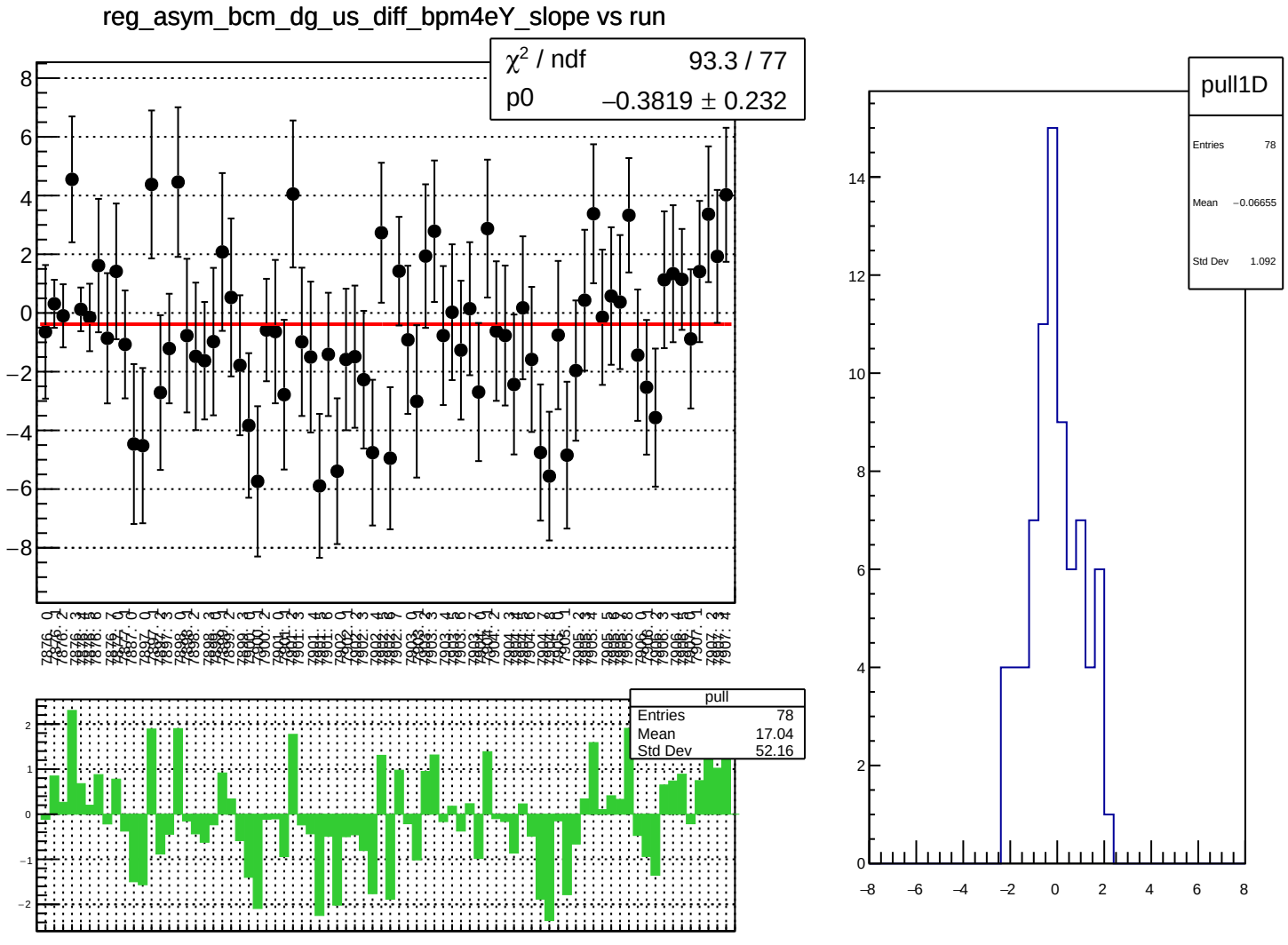

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 349.3 / 77
p0 2.833 ± 0.1716
pull
Entries 78
Mean 66.62
Std Dev 24.03
pull1D
Entries 78
Mean 0.8241
Std Dev 1.949

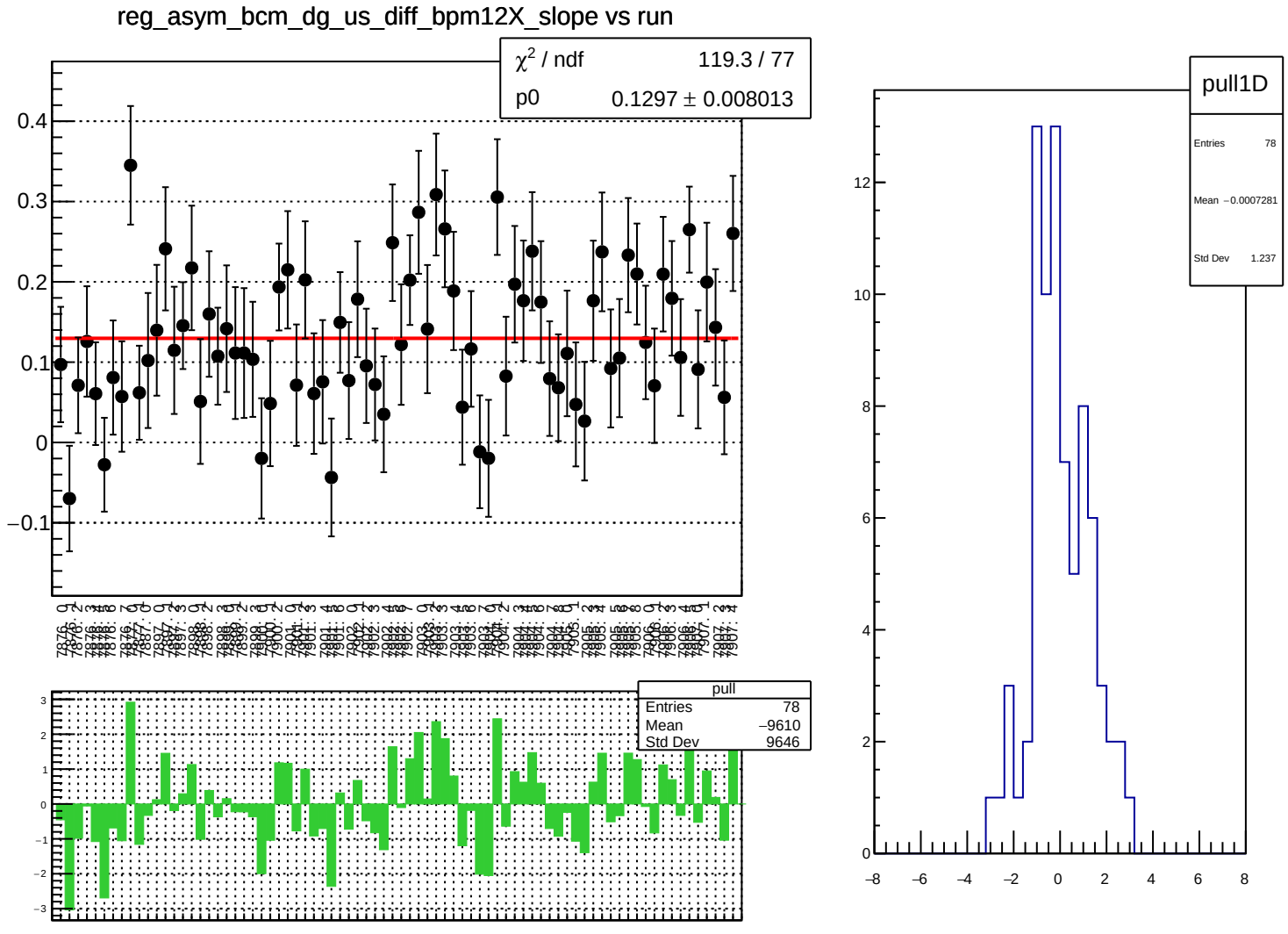

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 84.09 / 77
p0 −0.6709 ± 0.1837
pull
Entries 78
Mean 96.59
Std Dev 23.2

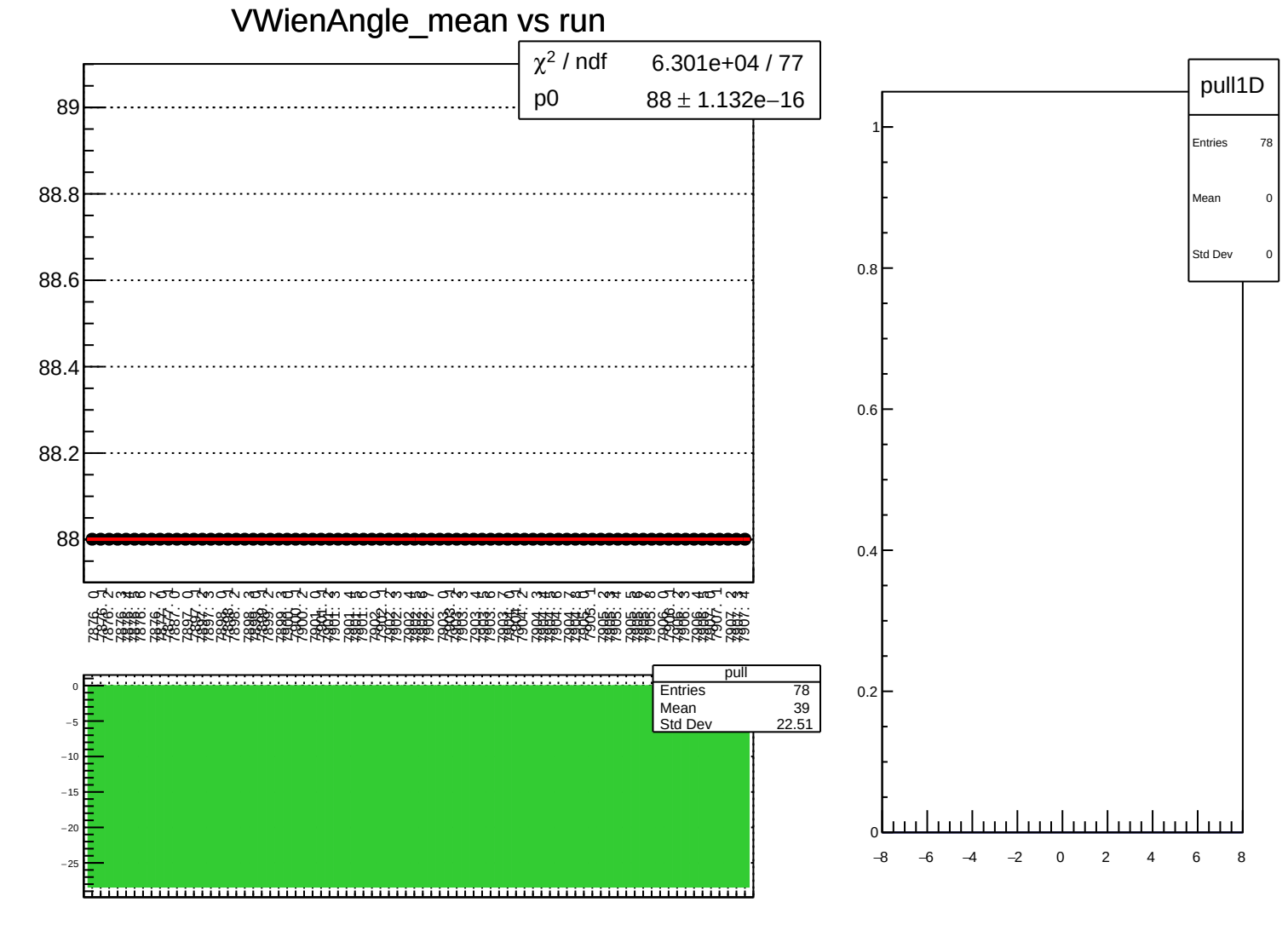

pull1D
Entries 78
Mean −0.0404
Std Dev 1.038

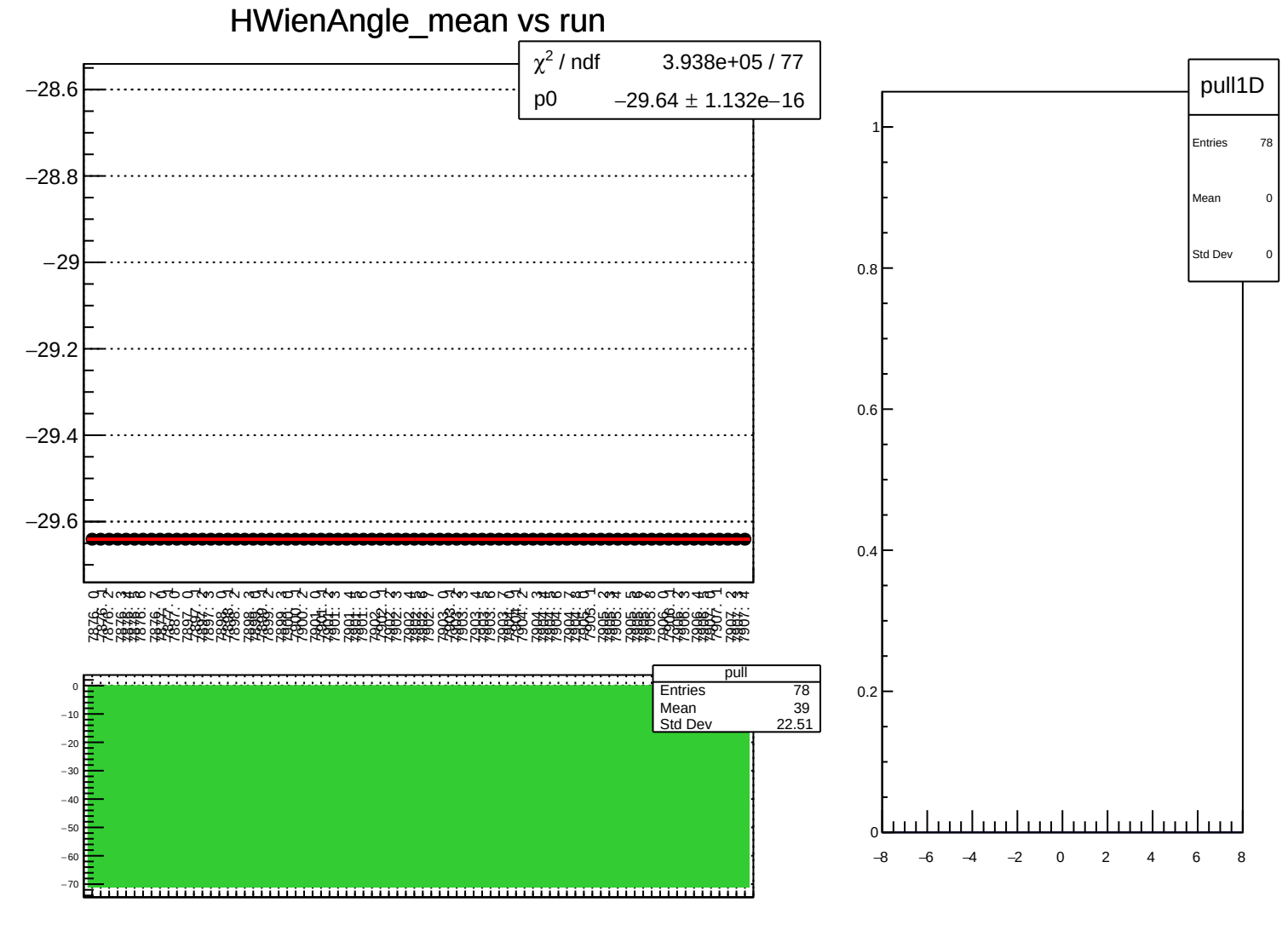

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 391.3 / 77
p0 −2.234 ± 0.1377
pull
Entries 78
Mean 63.09
Std Dev 18.97

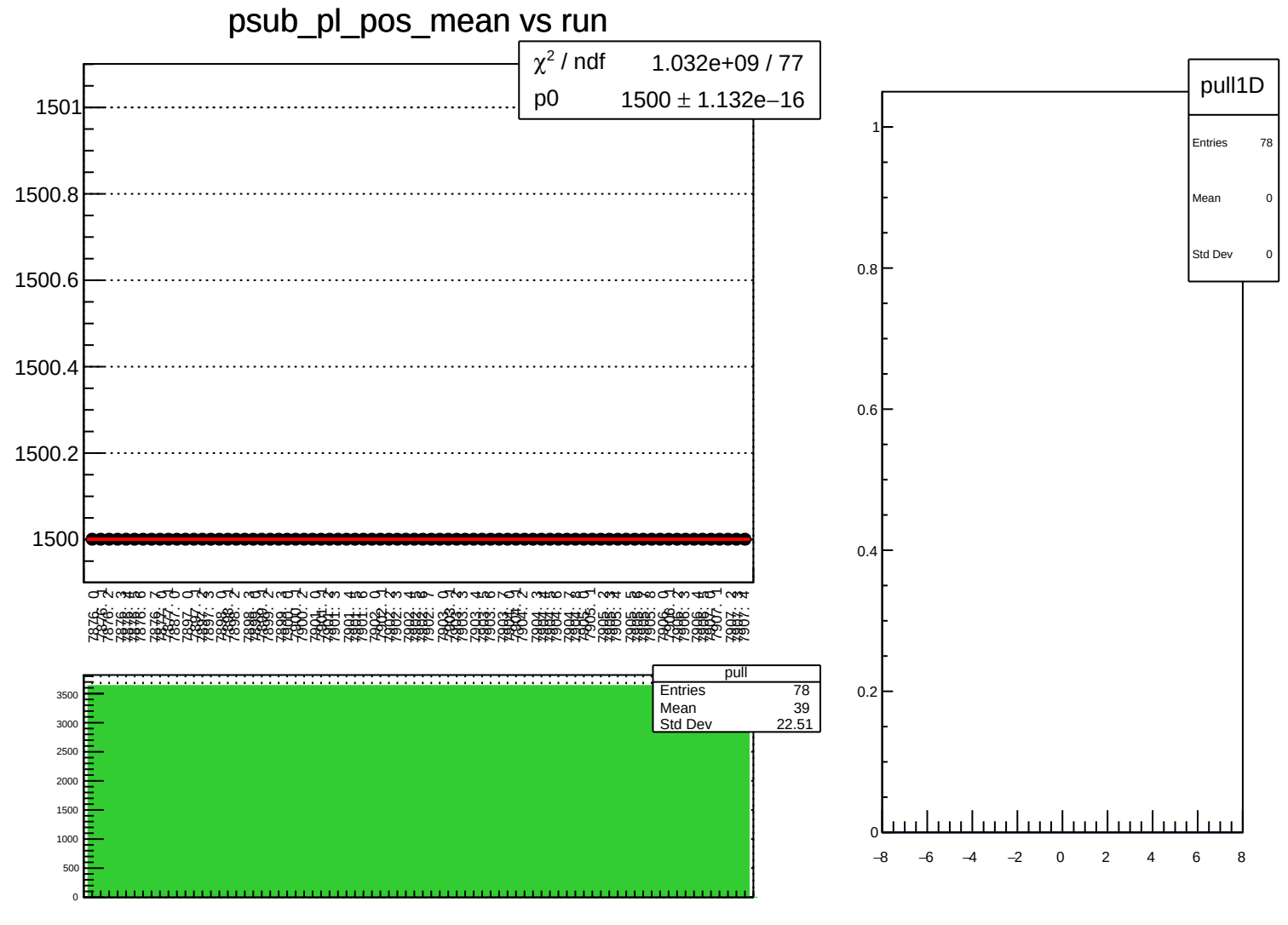

pull1D
Entries 78
Mean −0.9744
Std Dev 2.017

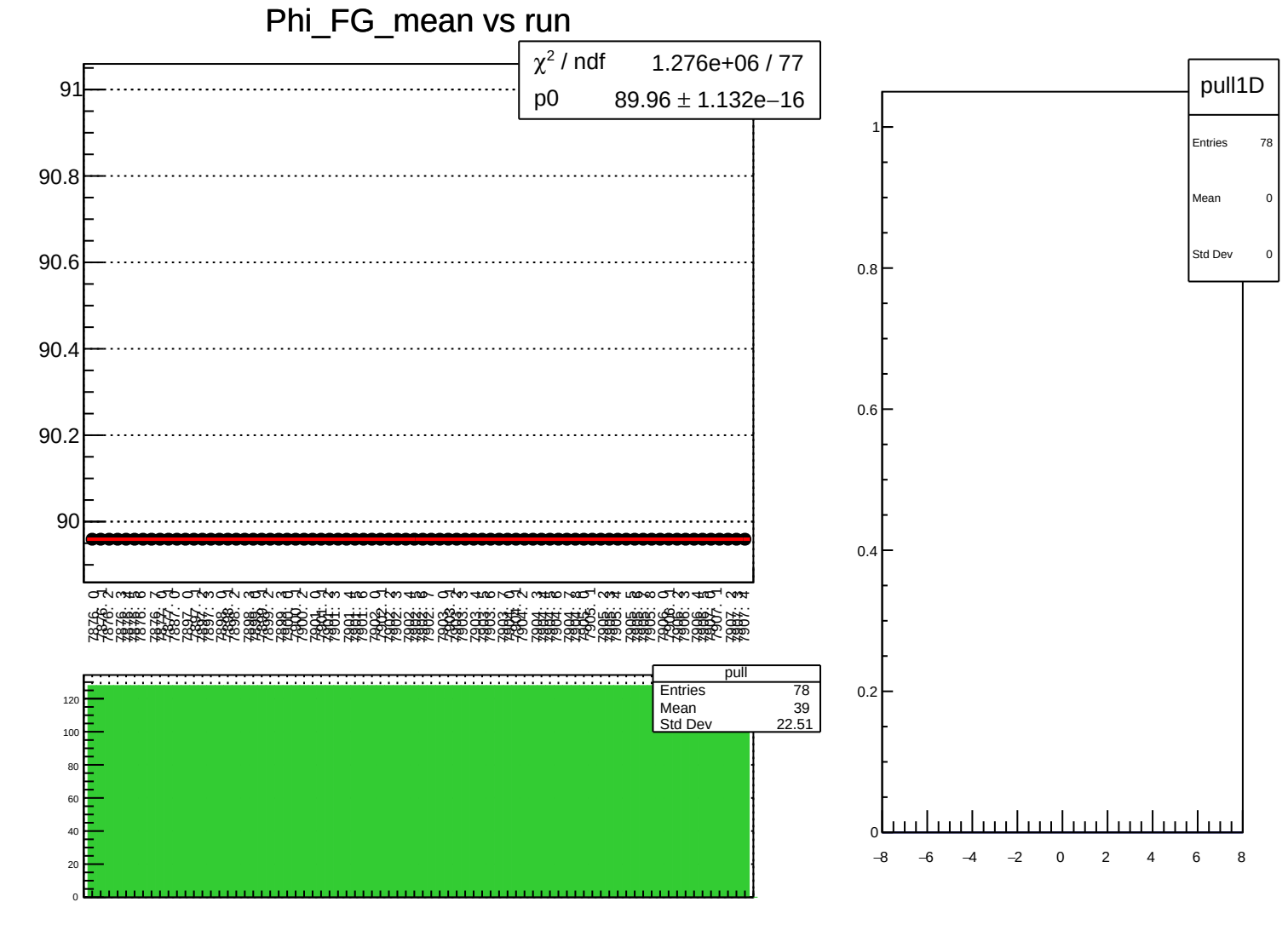

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 93.3 / 77
p0 −0.3819 ± 0.232
pull
Entries 78
Mean 17.04
Std Dev 52.16
pull1D
Entries 78
Mean −0.06655
Std Dev 1.092

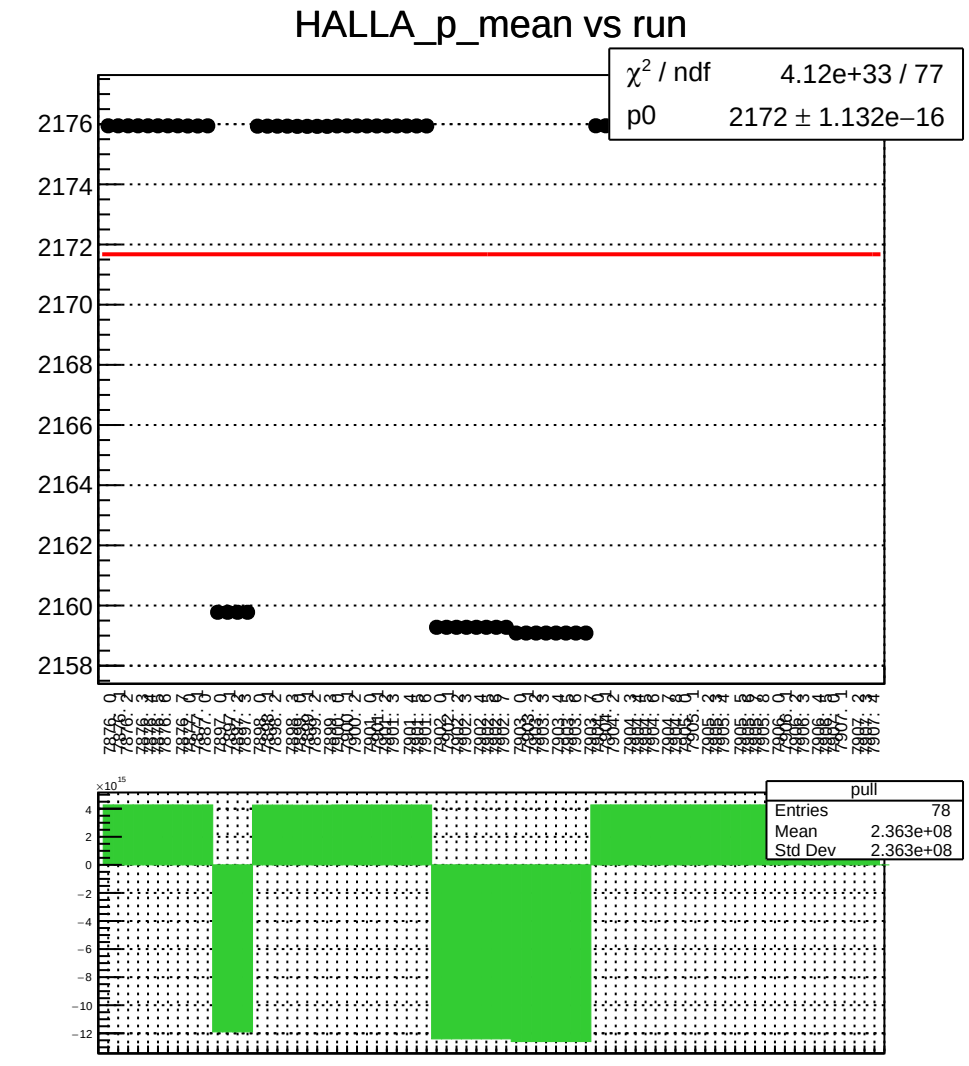

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 119.3 / 77
p0 0.1297 ± 0.008013
pull
Entries 78
Mean −9610
Std Dev 9646
pull1D
Entries 78
Mean −0.0007281
Std Dev 1.237

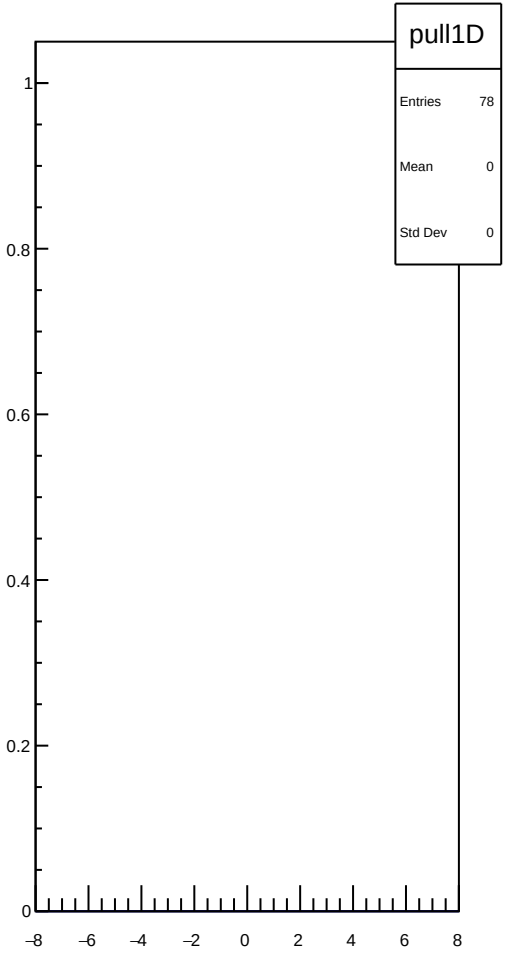

VWienAngle_mean vs run
χ² / ndf 6.301e+04 / 77
p0 88 ± 1.132e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 78
Mean 39
Std Dev 22.51
0
−5
−10
−15
−20
−25
pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

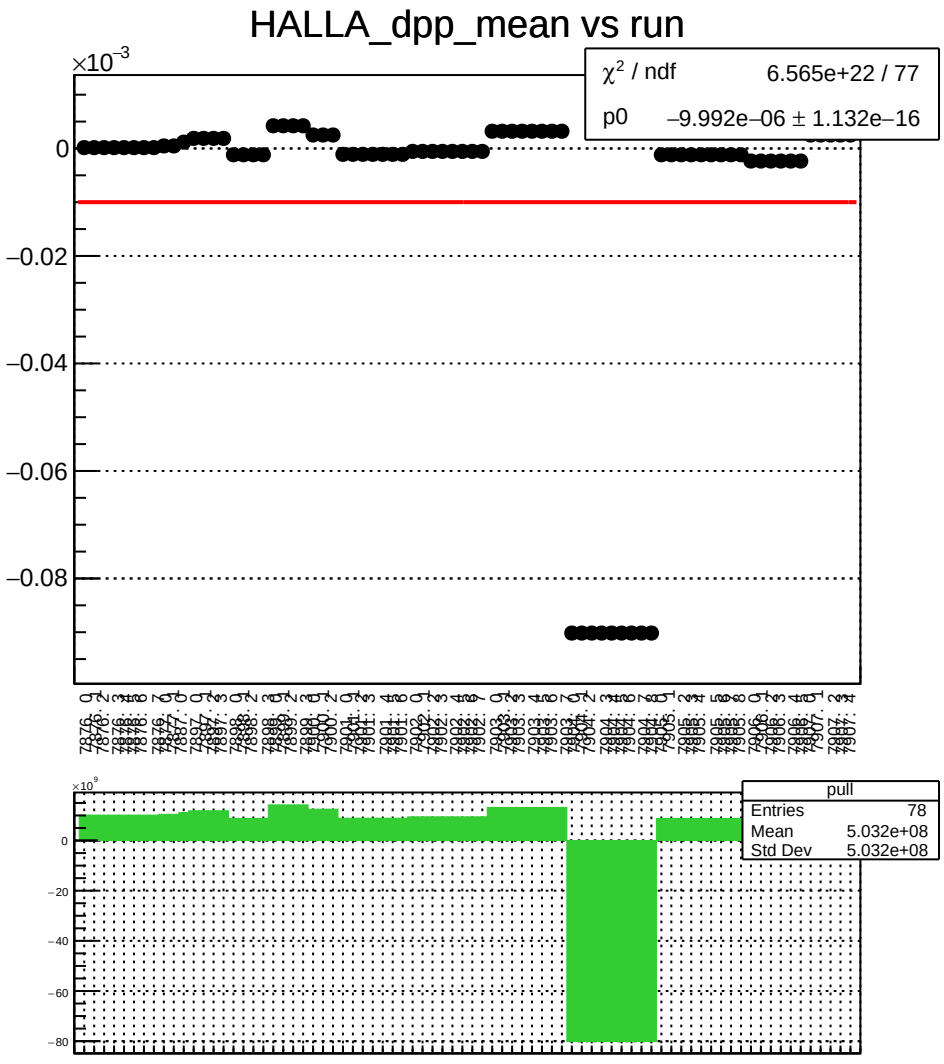

HWienAngle_mean vs run
χ² / ndf 3.938e+05 / 77
p0 −29.64 ± 1.132e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 78
Mean 39
Std Dev 22.51
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

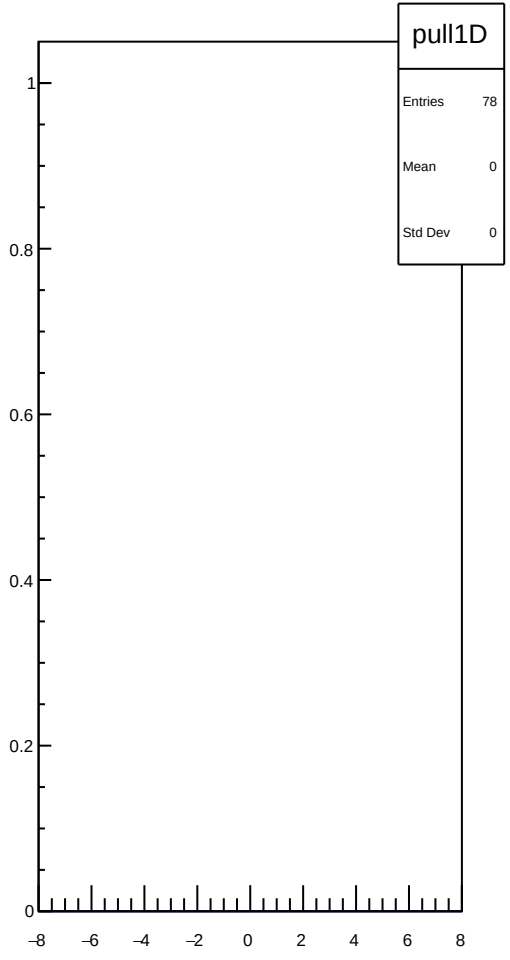

psub_pl_pos_mean vs run
χ² / ndf 1.032e+09 / 77
p0 1500 ± 1.132e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 78
Mean 39
Std Dev 22.51
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

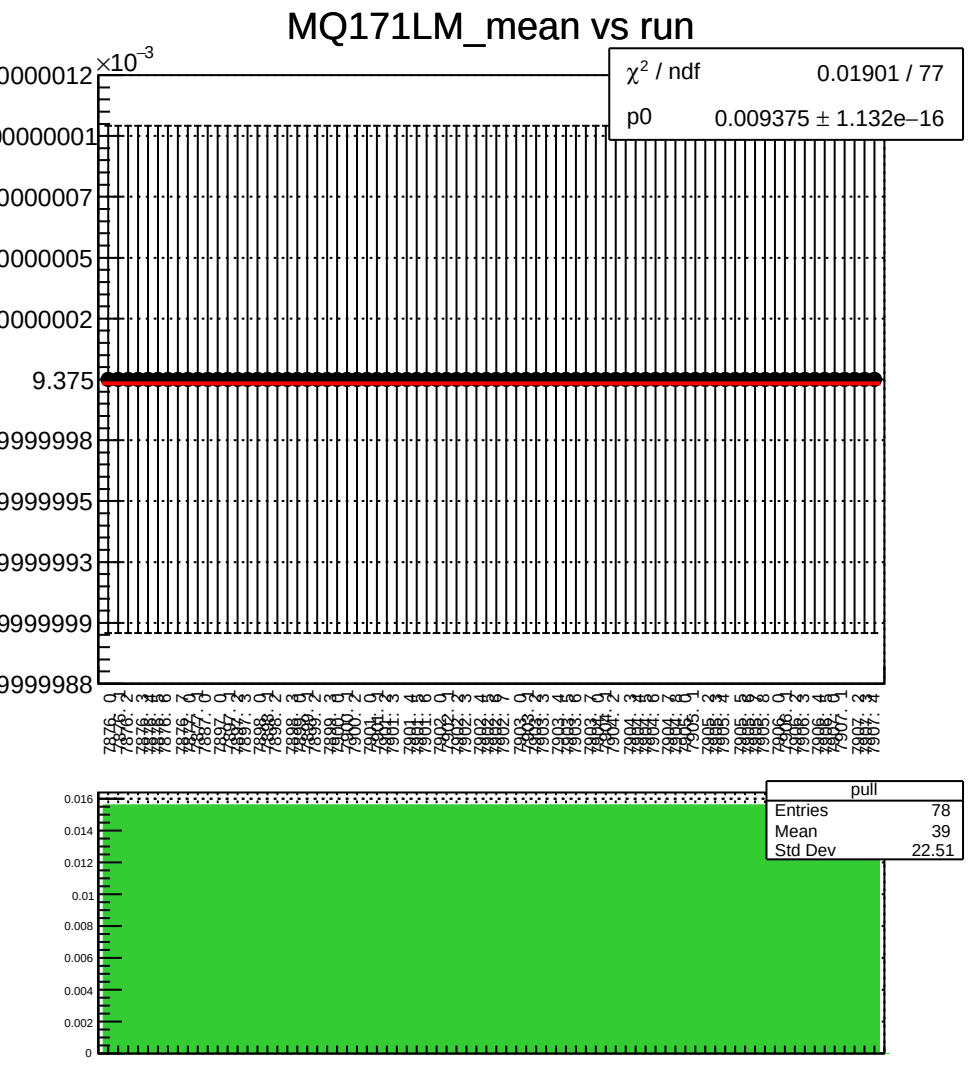

Phi_FG_mean vs run
χ² / ndf 1.276e+06 / 77
p0 89.96 ± 1.132e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 78
Mean 39
Std Dev 22.51
120
100
80
60
40
20
0
pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

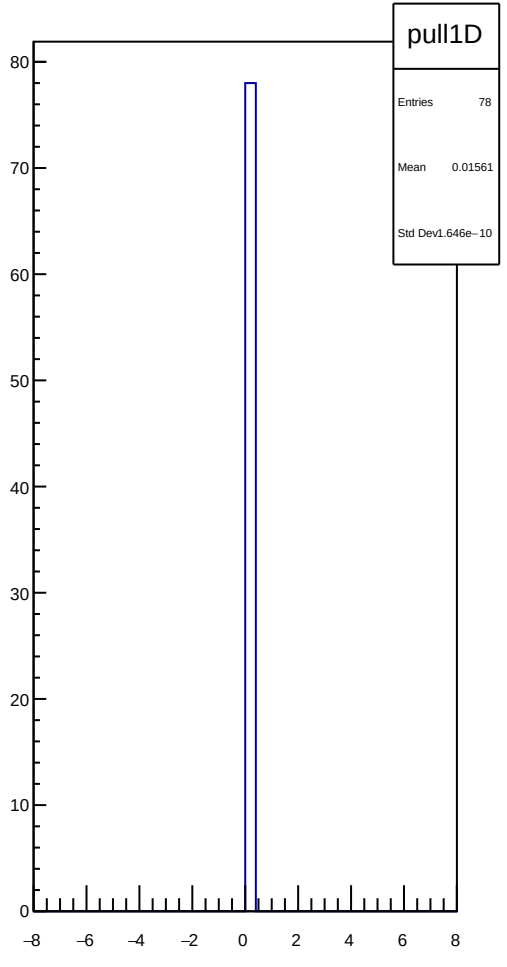

HALLA_p_mean vs run
χ² / ndf 4.12e+33 / 77
p0 2172 ± 1.132e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 78
Mean 2.363e+08
Std Dev 2.363e+08
×10¹⁵
4
2
0
−2
−4
−6
−8
−10
−12

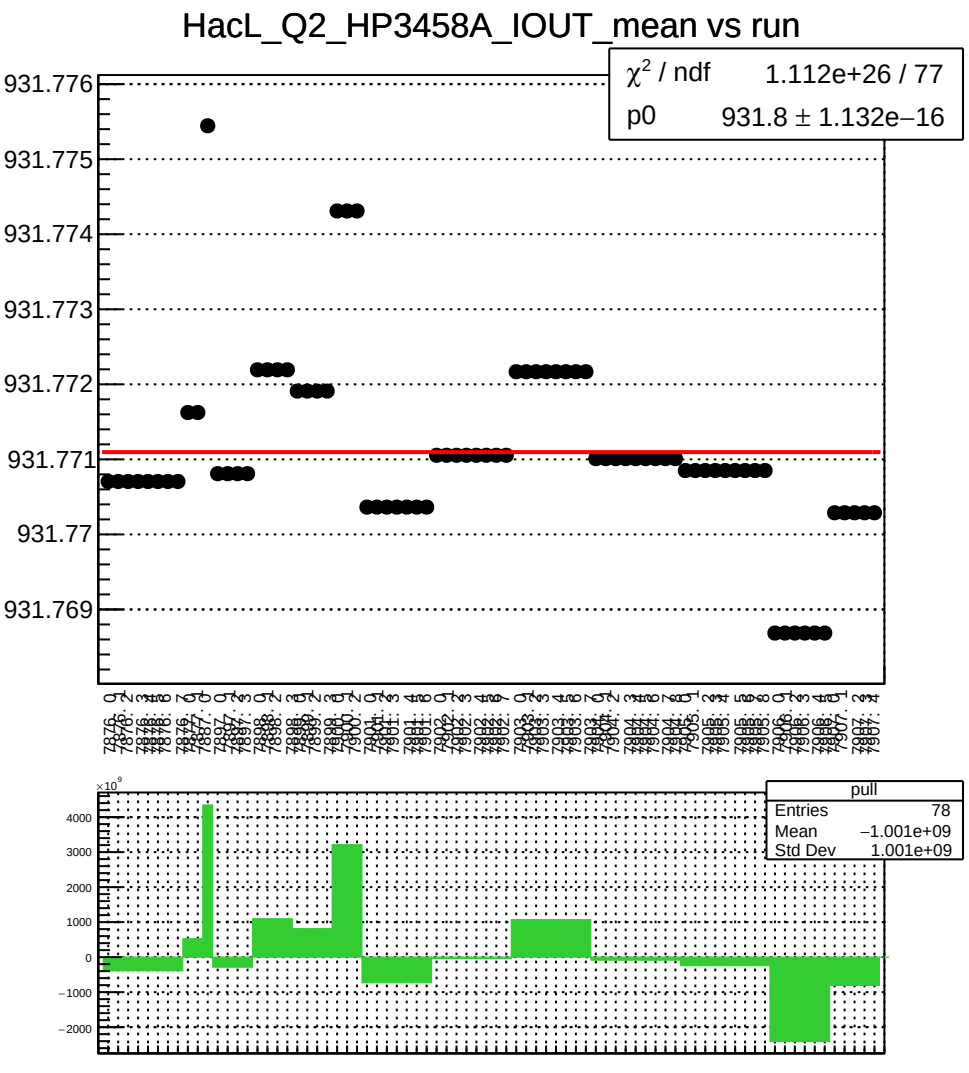

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

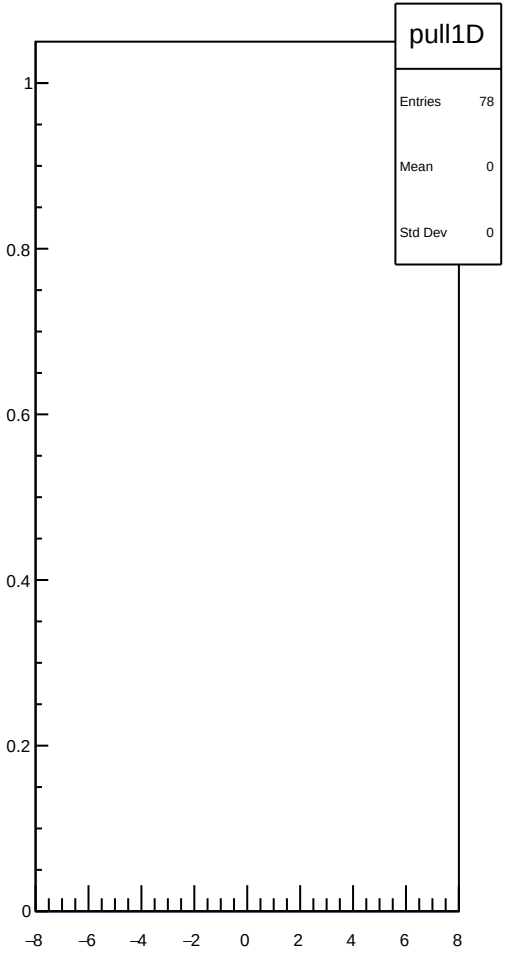

HALLA_dpp_mean vs run
χ² / ndf 6.565e+22 / 77
p0 −9.992e−06 ± 1.132e−16
×10⁻³
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 78
Mean 5.032e+08
Std Dev 5.032e+08
×10⁹
0
−20
−40
−60
−80

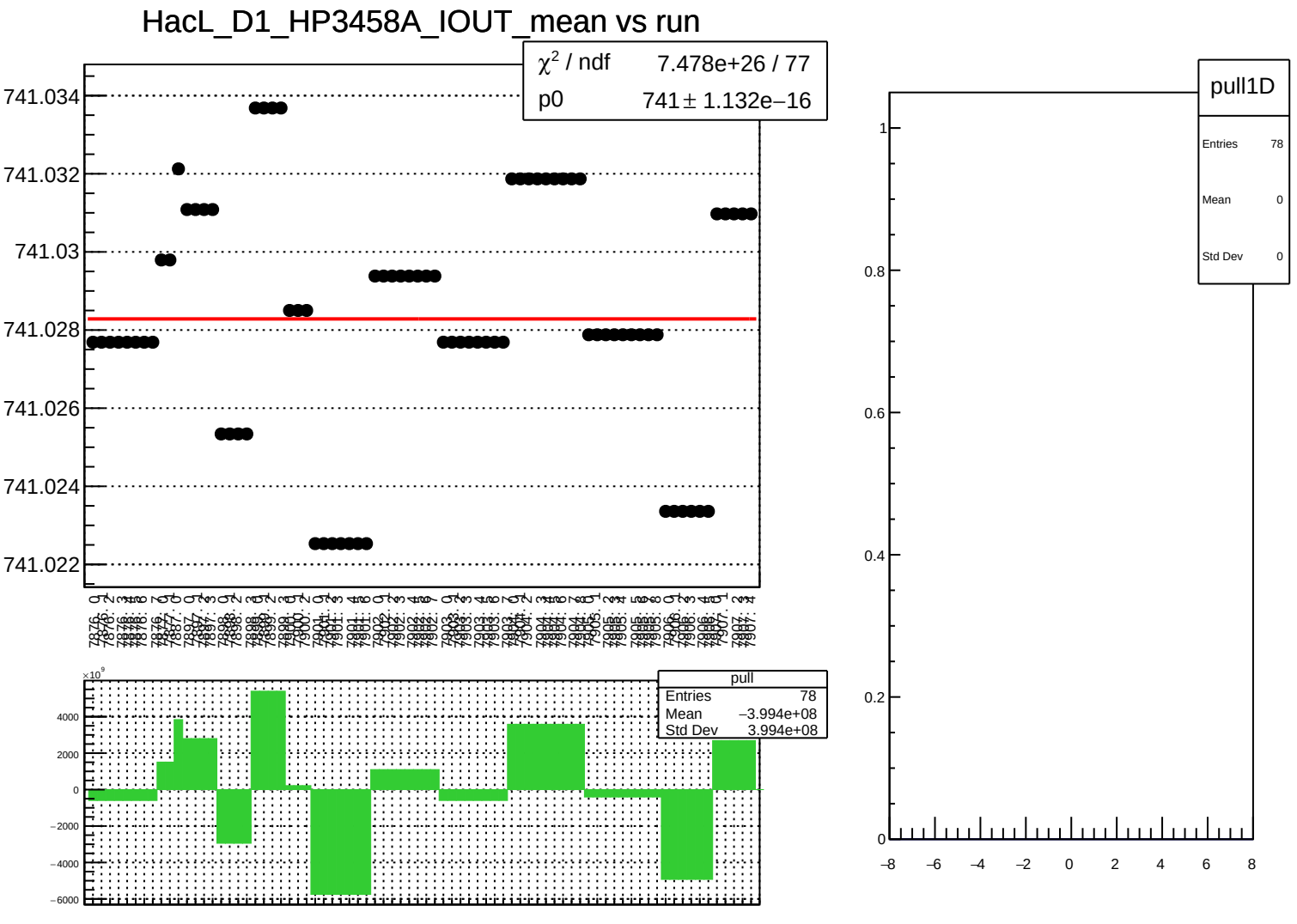

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

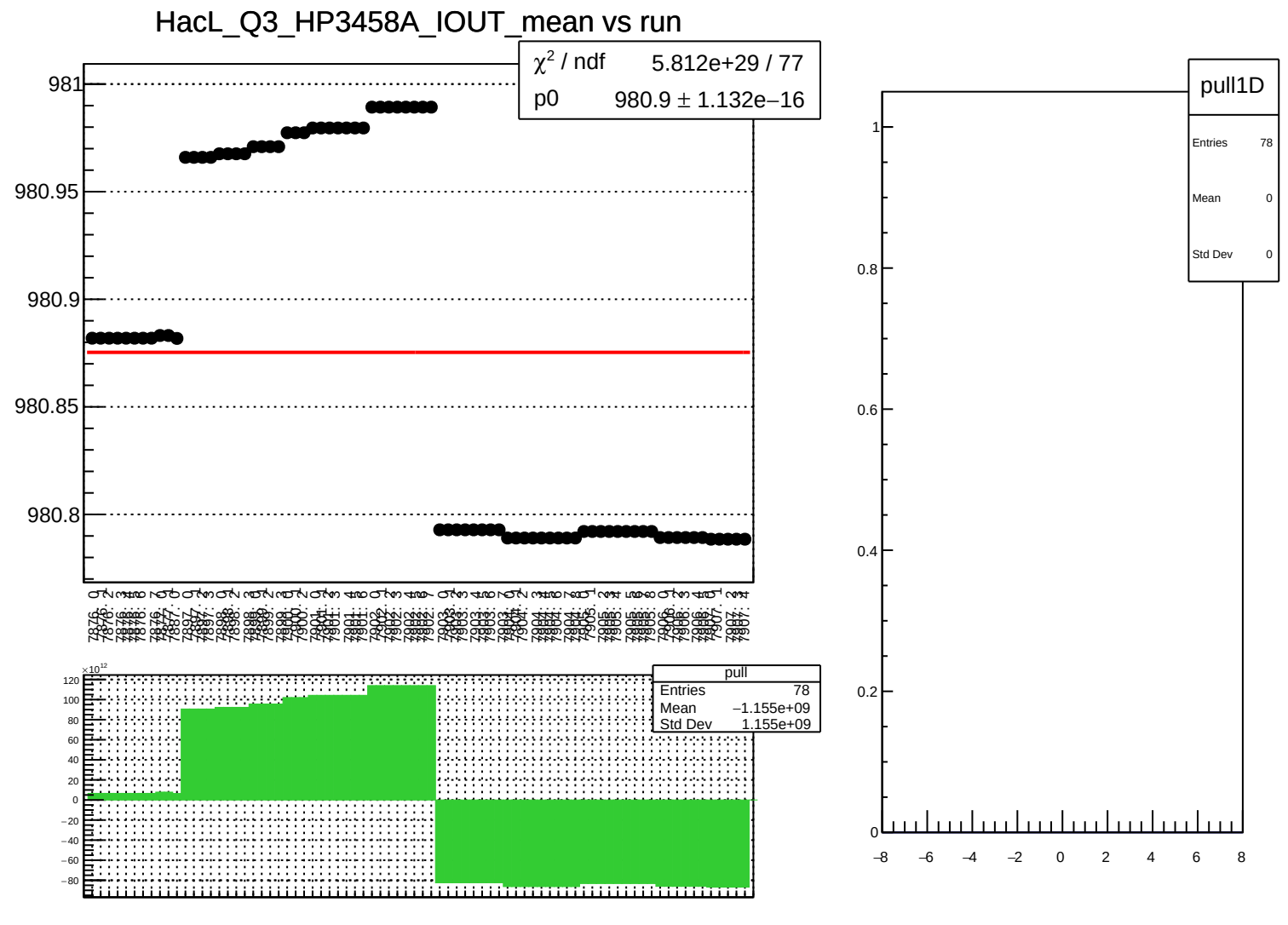

MQ171LM_mean vs run
χ² / ndf 0.01901 / 77
p0 0.009375 ± 1.132e−16
×10⁻³
9.375
pull
Entries 78
Mean 39
Std Dev 22.51

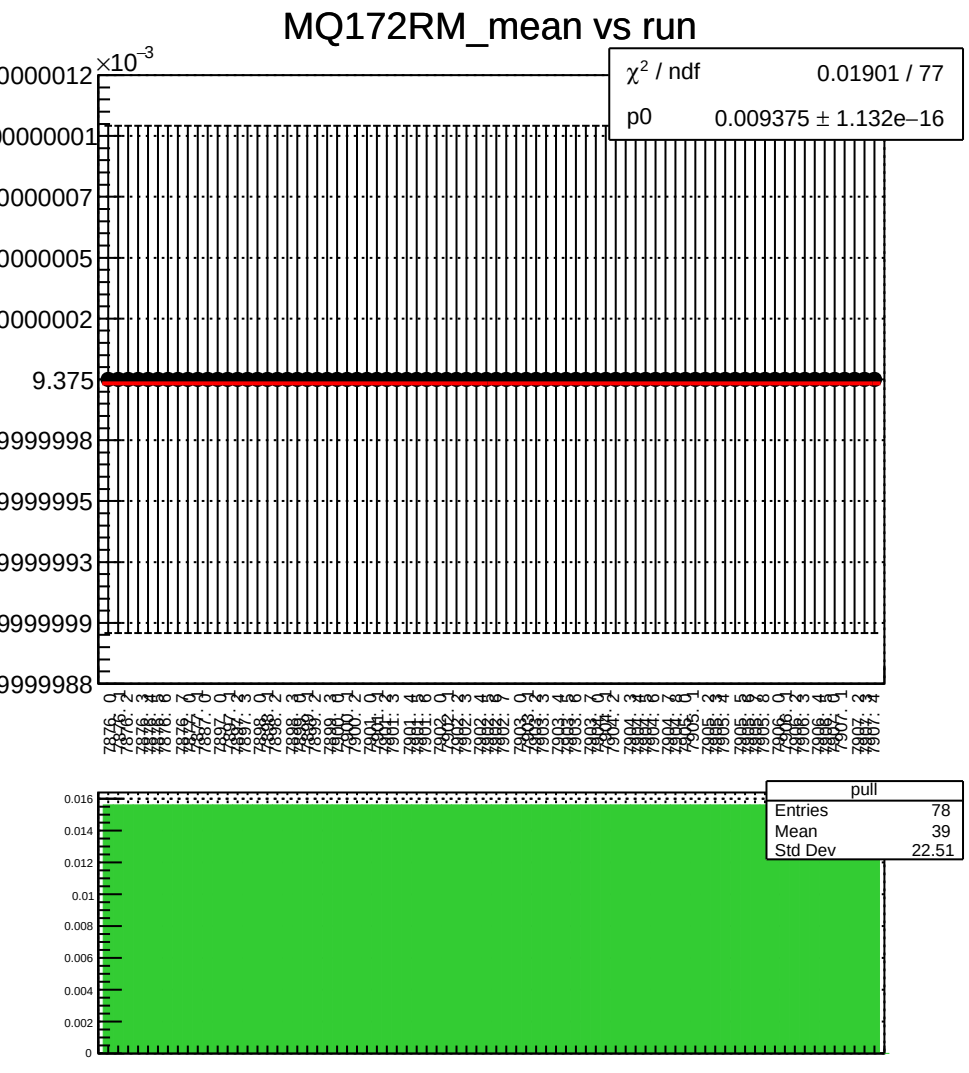

pull1D
Entries 78
Mean 0.01561
Std Dev1.646e−10

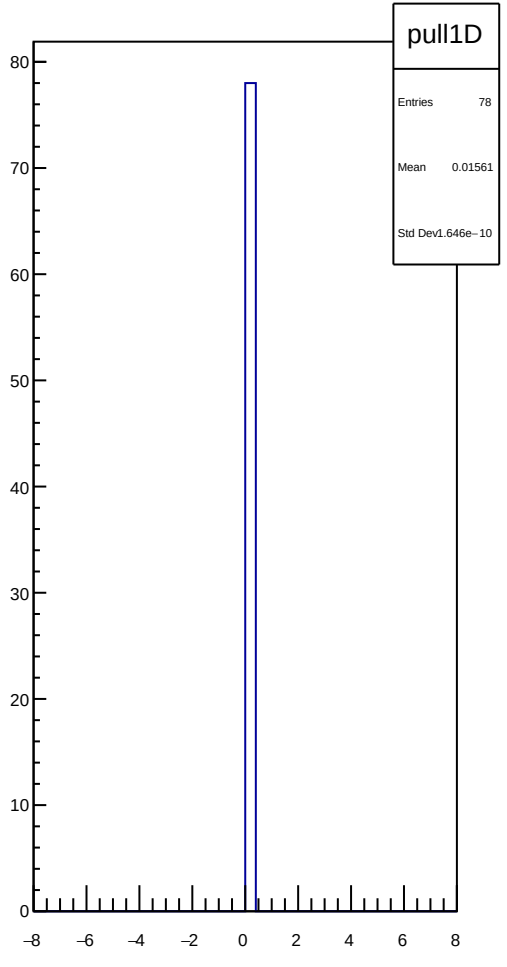

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.112e+26 / 77
p0 931.8 ± 1.132e−16
931.776
931.775
931.774
931.773
931.772
931.771
931.77
931.769
×10⁹
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 78
Mean −1.001e+09
Std Dev 1.001e+09

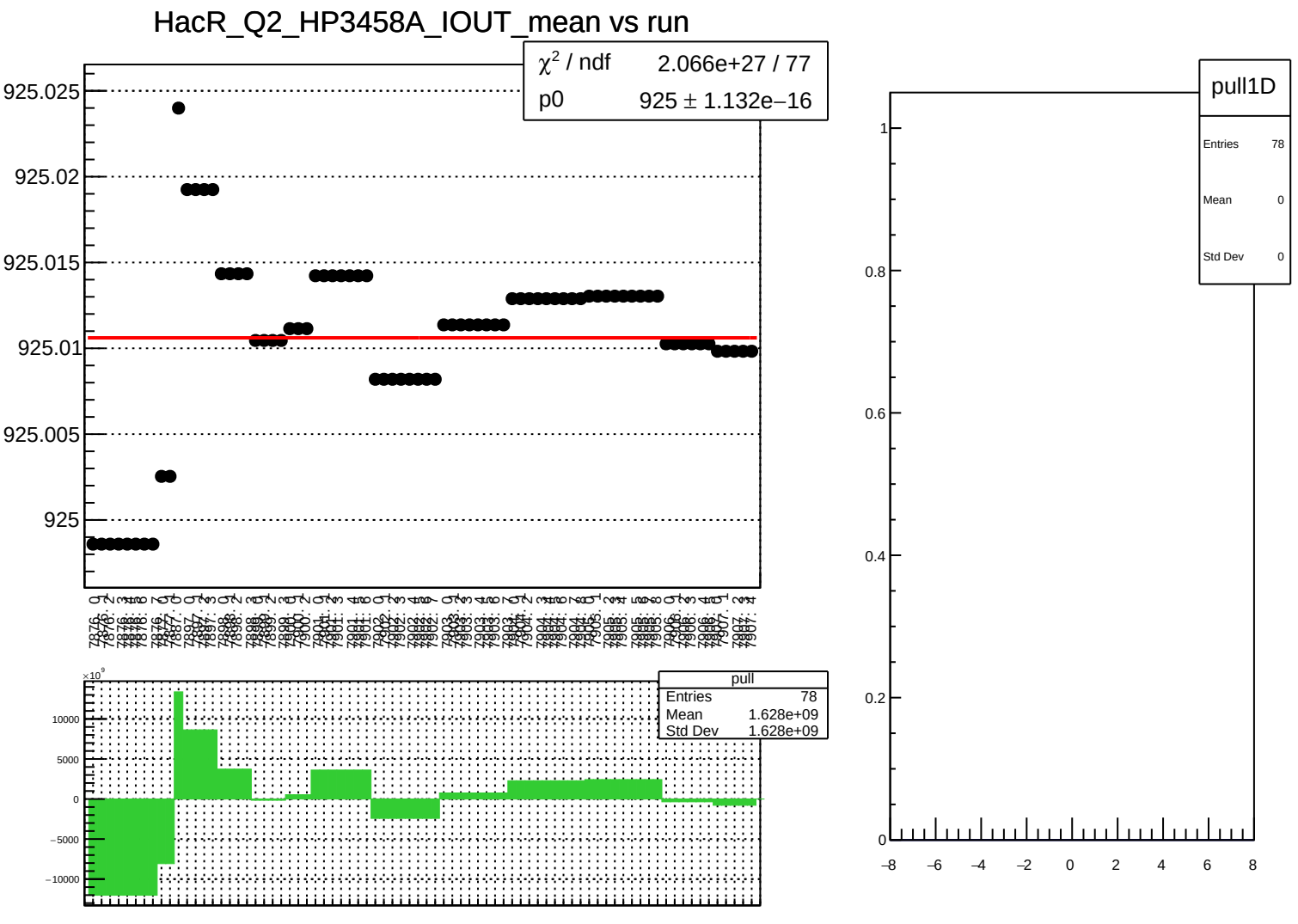

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

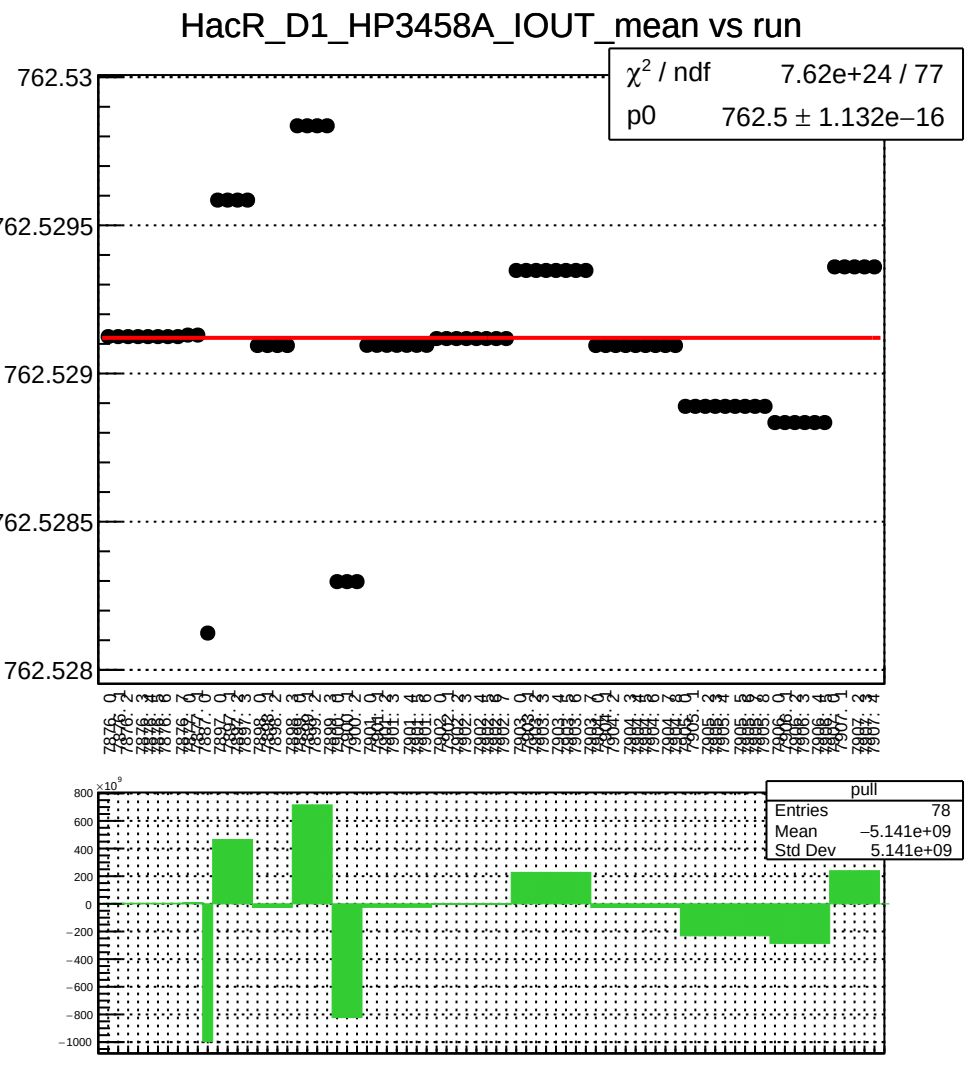

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 7.478e+26 / 77
p0 741 ± 1.132e−16
741.034
741.032
741.03
741.028
741.026
741.024
741.022
×10⁹
4000
2000
0
−2000
−4000
−6000
pull
Entries 78
Mean −3.994e+08
Std Dev 3.994e+08
pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

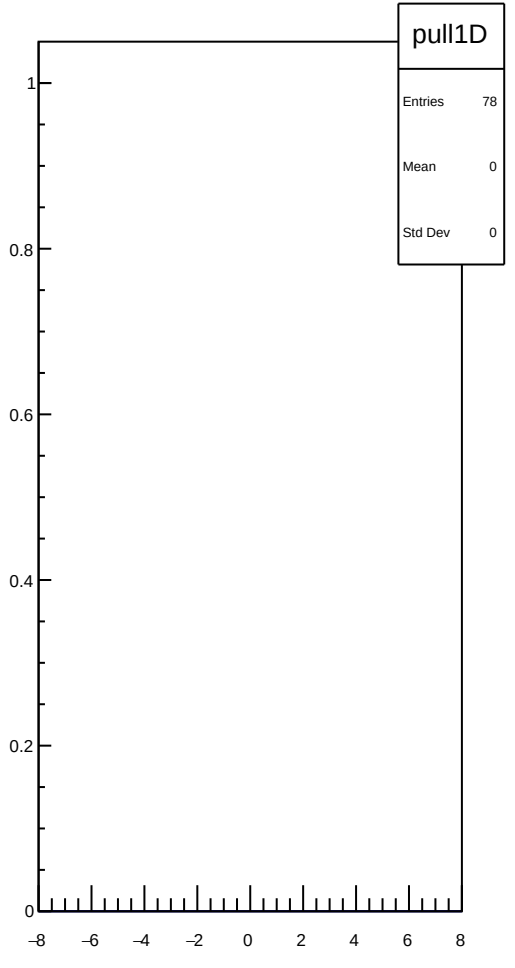

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.812e+29 / 77
p0 980.9 ± 1.132e−16
981
980.95
980.9
980.85
980.8
pull
Entries 78
Mean −1.155e+09
Std Dev 1.155e+09
×10¹²
120
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

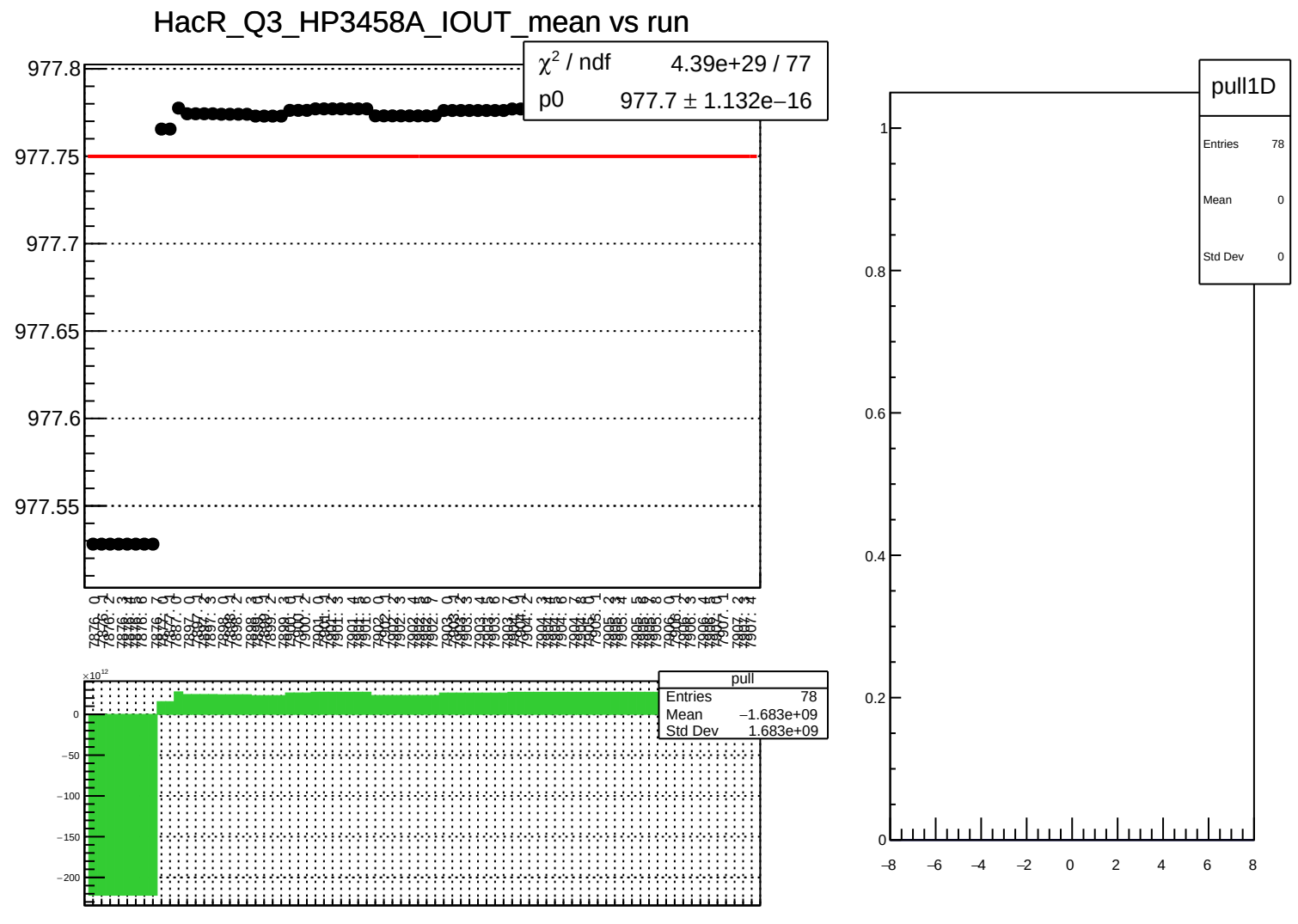

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.01901 / 77
p0 0.009375 ± 1.132e−16
9.375
pull
Entries 78
Mean 39
Std Dev 22.51

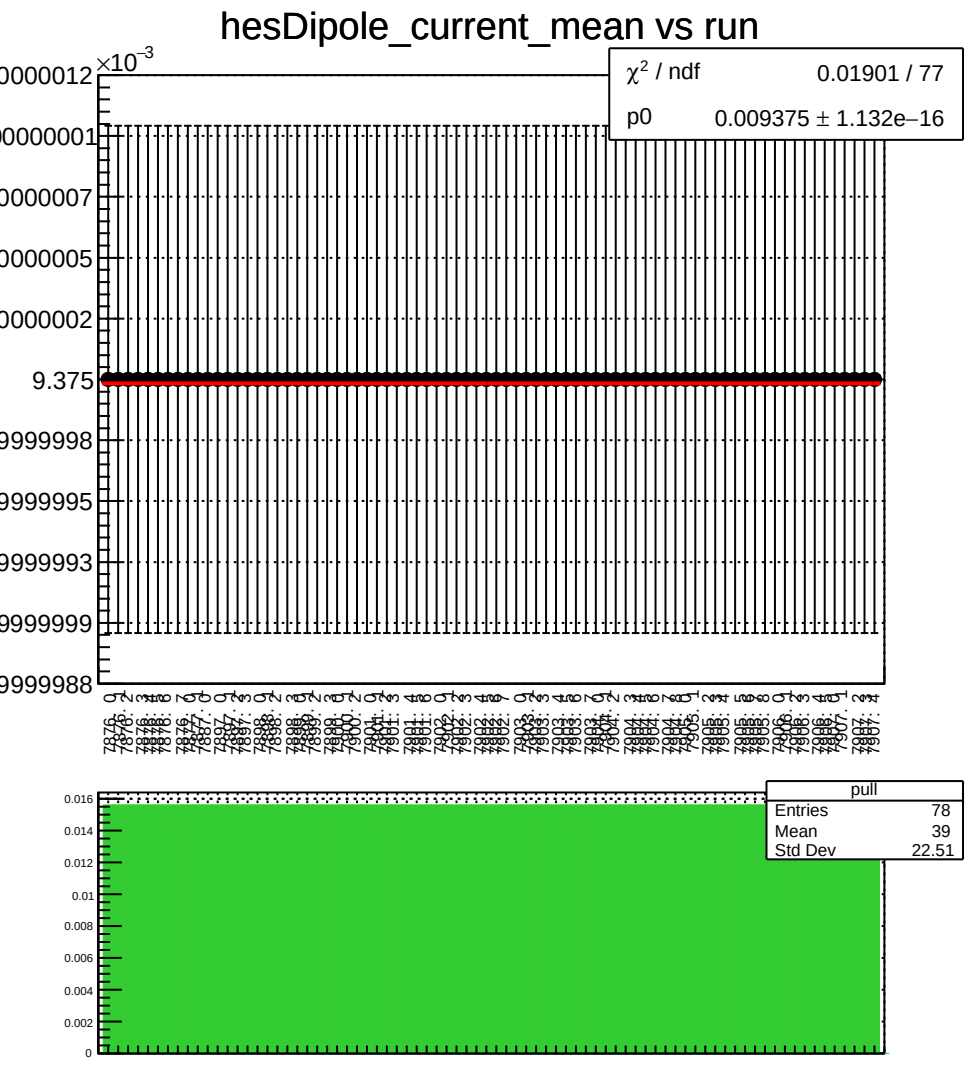

pull1D
Entries 78
Mean 0.01561
Std Dev1.646e−10

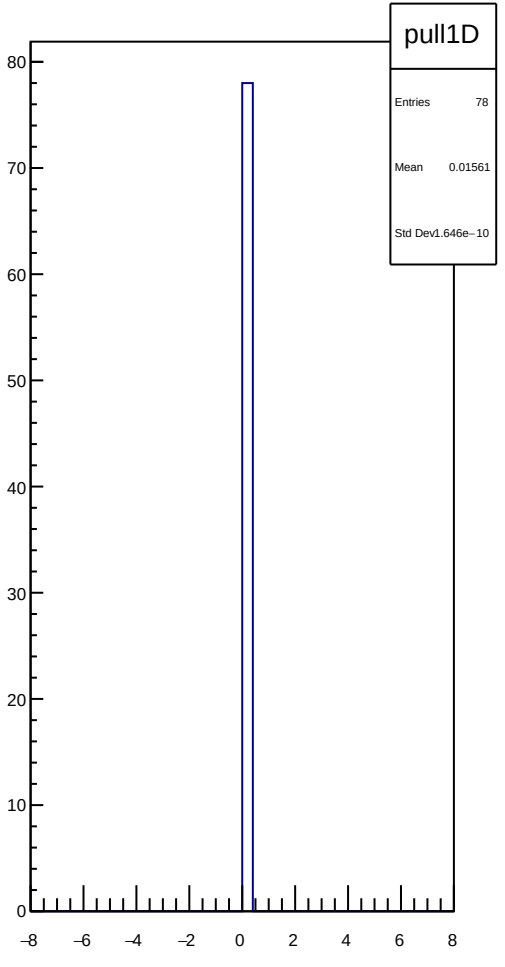

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.066e+27 / 77
p0 925 ± 1.132e−16
925.025
925.02
925.015
925.01
925.005
925
pull
Entries 78
Mean 1.628e+09
Std Dev 1.628e+09
×10⁹
10000
5000
0
−5000
−10000
pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

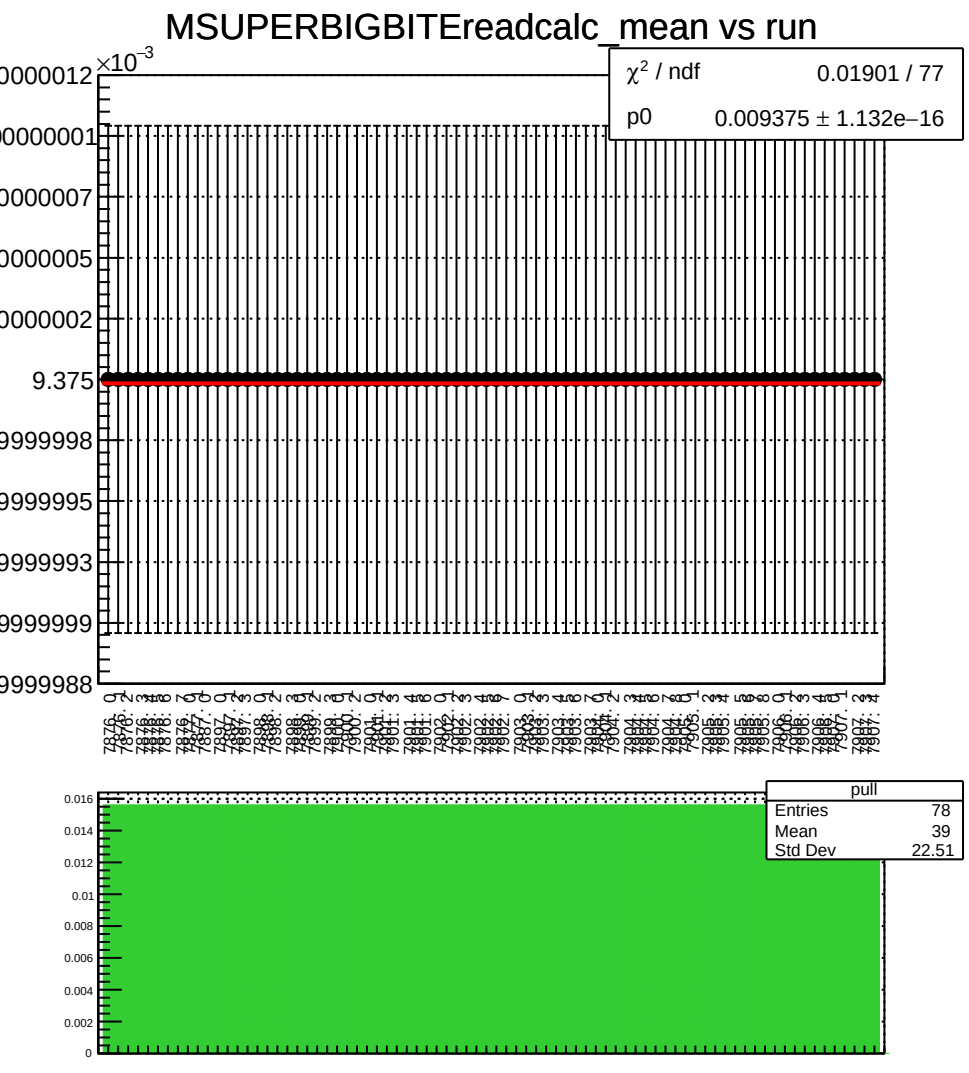

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 7.62e+24 / 77
p0 762.5 ± 1.132e−16
762.53
762.5295
762.529
762.5285
762.528
×10⁹
800
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 78
Mean −5.141e+09
Std Dev 5.141e+09

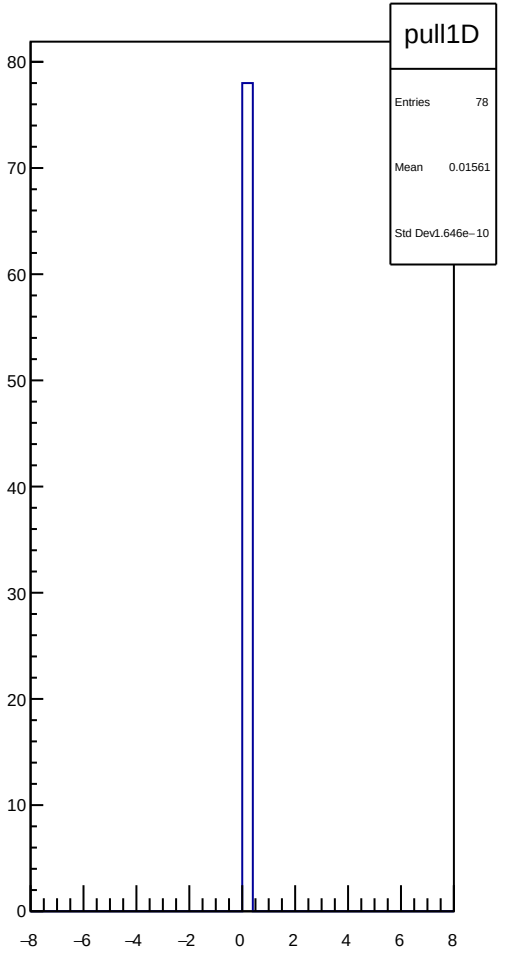

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

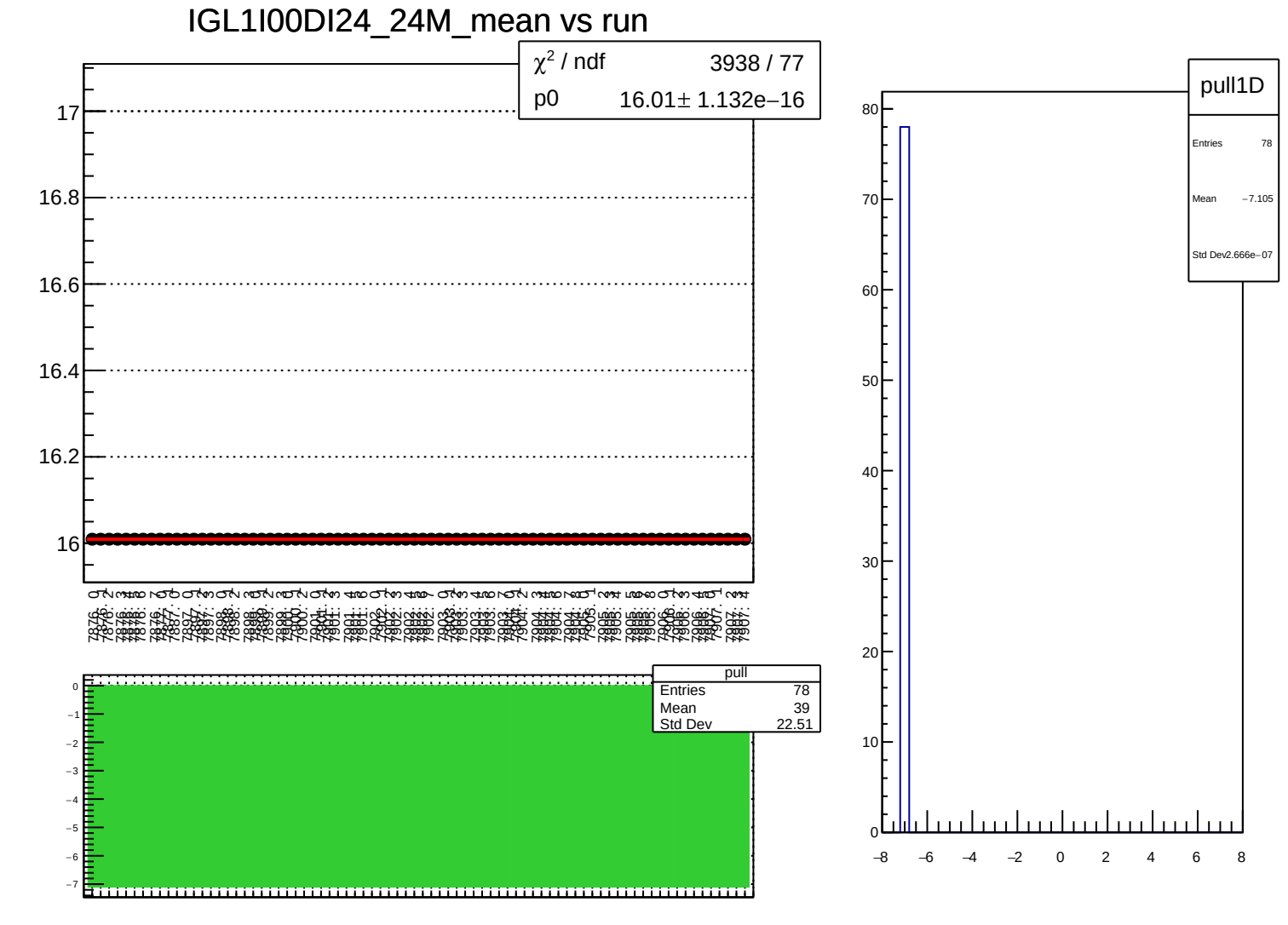

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 4.39e+29 / 77
p0 977.7 ± 1.132e−16
977.8
977.75
977.7
977.65
977.6
977.55
pull
Entries 78
Mean −1.683e+09
Std Dev 1.683e+09
×10¹²
0
−50
−100
−150
−200
pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

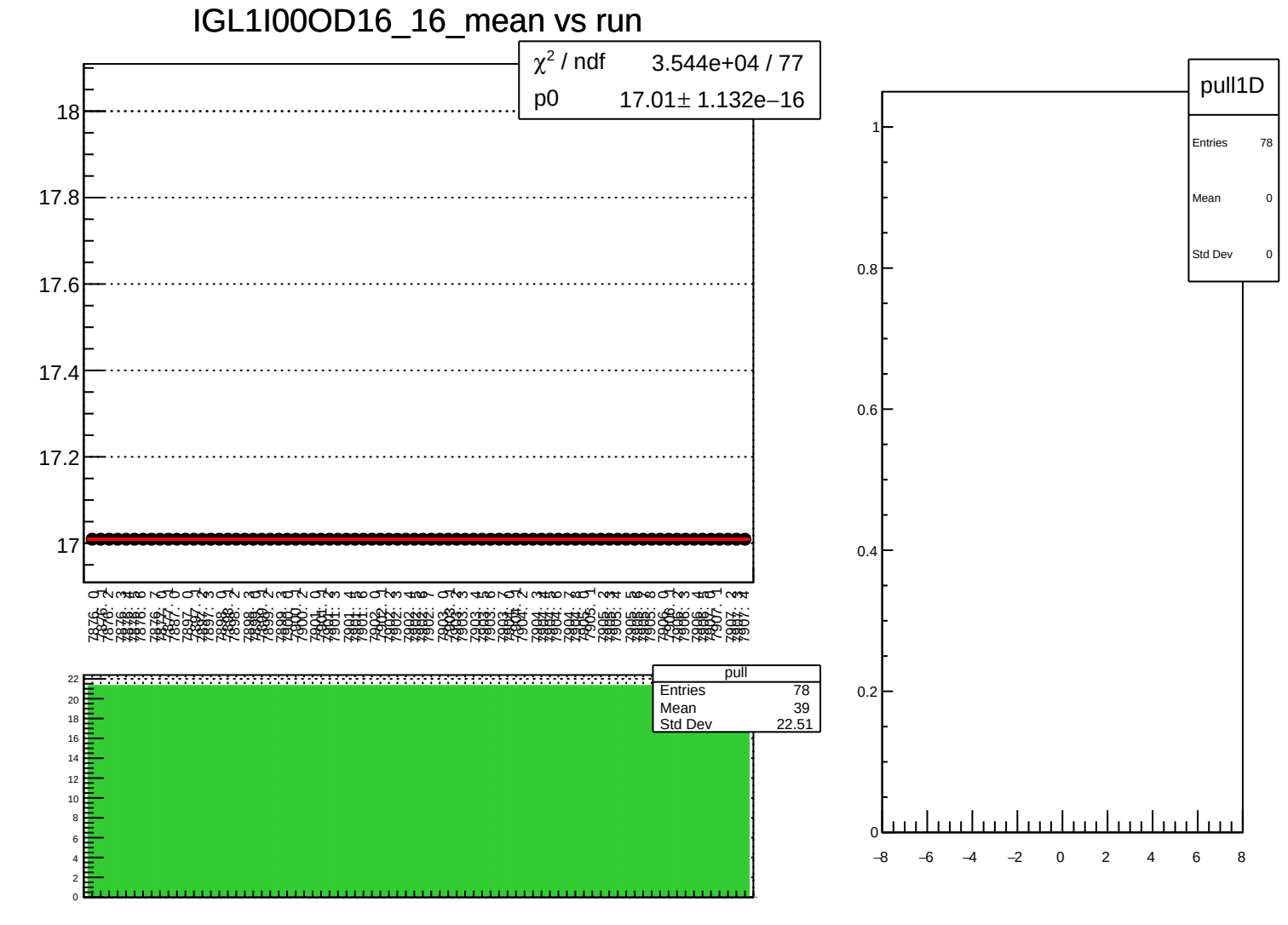

hesDipole_current_mean vs run
χ² / ndf 0.01901 / 77
p0 0.009375 ± 1.132e−16
×10⁻³
pull
Entries 78
Mean 39
Std Dev 22.51

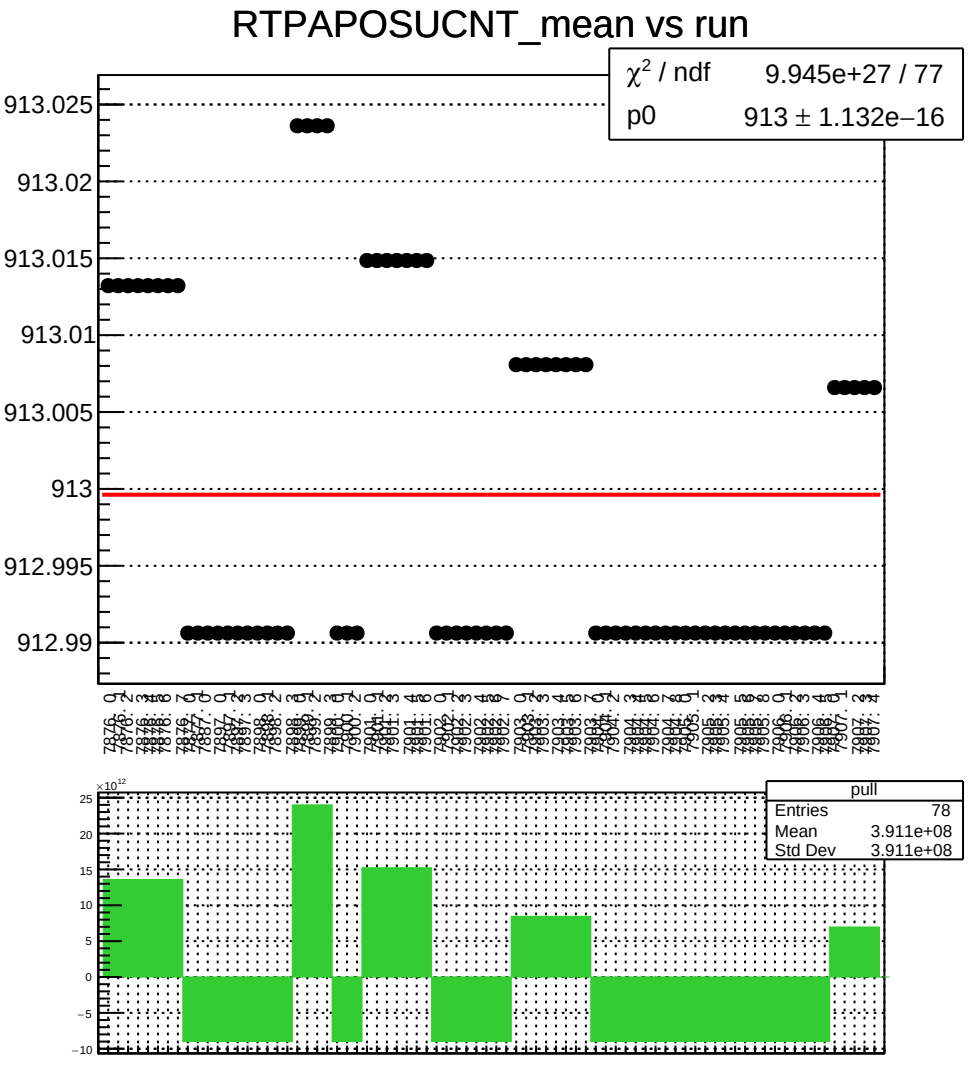

pull1D
Entries 78
Mean 0.01561
Std Dev1.646e−10

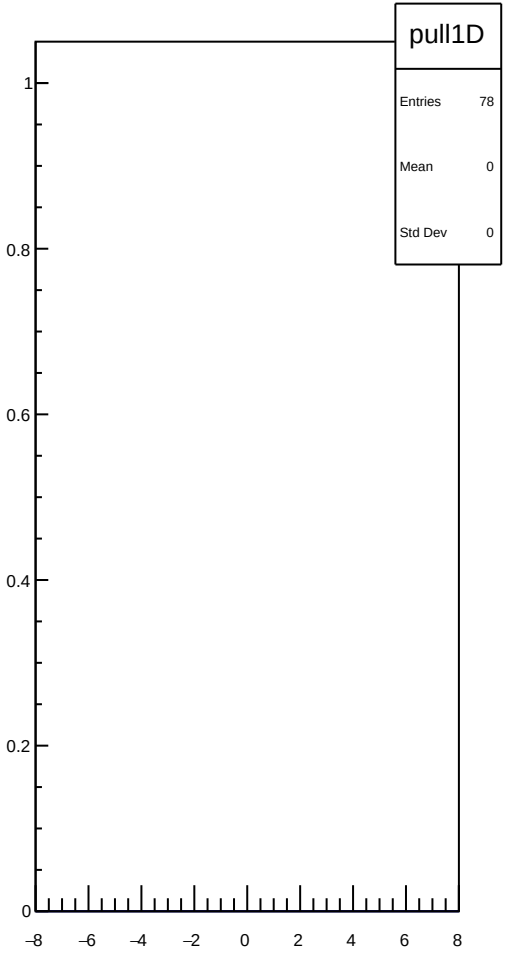

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.01901 / 77
p0 0.009375 ± 1.132e−16
×10⁻³
9.375
pull
Entries 78
Mean 39
Std Dev 22.51

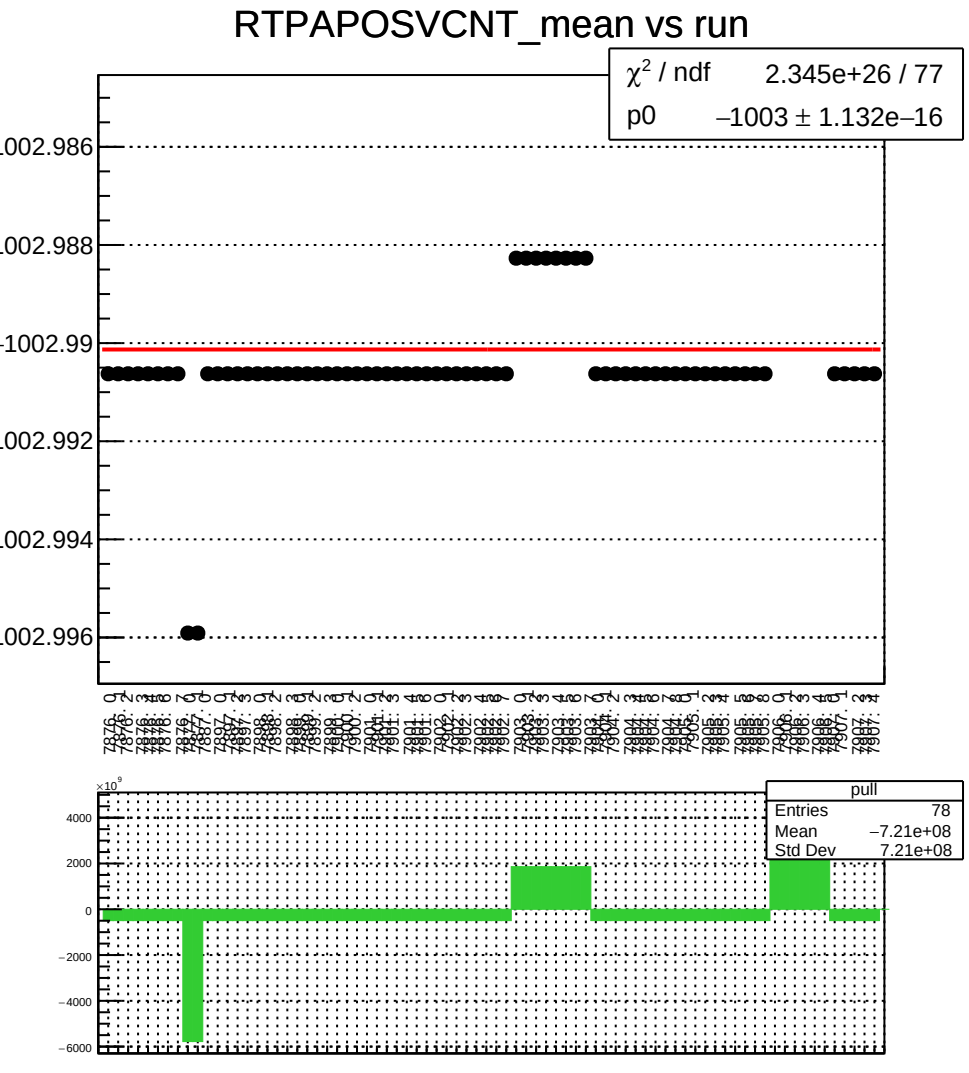

pull1D
Entries 78
Mean 0.01561
Std Dev1.646e−10

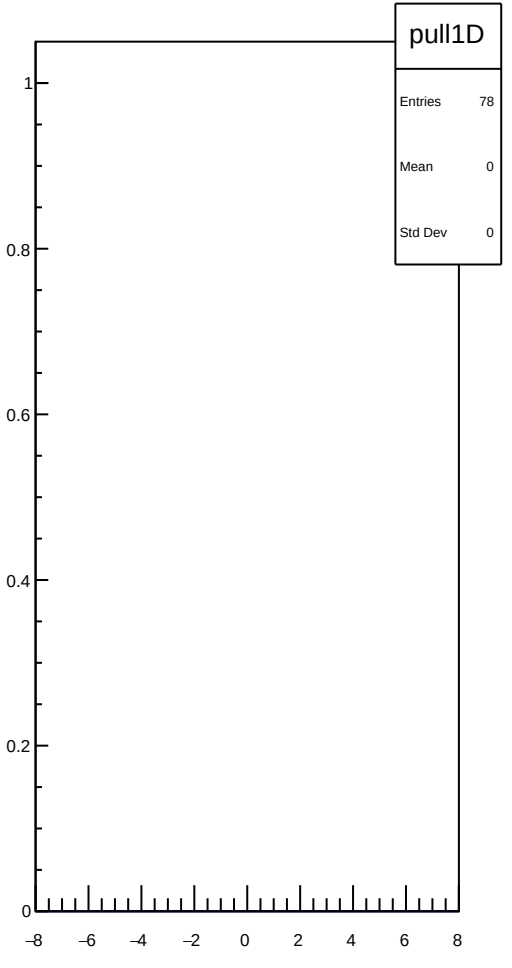

IGL1I00DI24_24M_mean vs run
χ² / ndf 3938 / 77
p0 16.01± 1.132e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 78
Mean 39
Std Dev 22.51
0
−1
−2
−3
−4
−5
−6
−7
pull1D
Entries 78
Mean −7.105
Std Dev 2.666e−07
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00OD16_16_mean vs run
χ² / ndf 3.544e+04 / 77
p0 17.01± 1.132e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 78
Mean 39
Std Dev 22.51
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 9.945e+27 / 77
p0 913 ± 1.132e−16
913.025
913.02
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 78
Mean 3.911e+08
Std Dev 3.911e+08
×10¹²
25
20
15
10
5
0
−5
−10


pull1D
Entries 78
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 2.345e+26 / 77
p0 −1003 ± 1.132e−16
−1002.986
−1002.988
−1002.99
−1002.992
−1002.994
−1002.996
pull
Entries 78
Mean −7.21e+08
Std Dev 7.21e+08
×10⁹
4000
2000
0
−2000
−4000
−6000


pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8