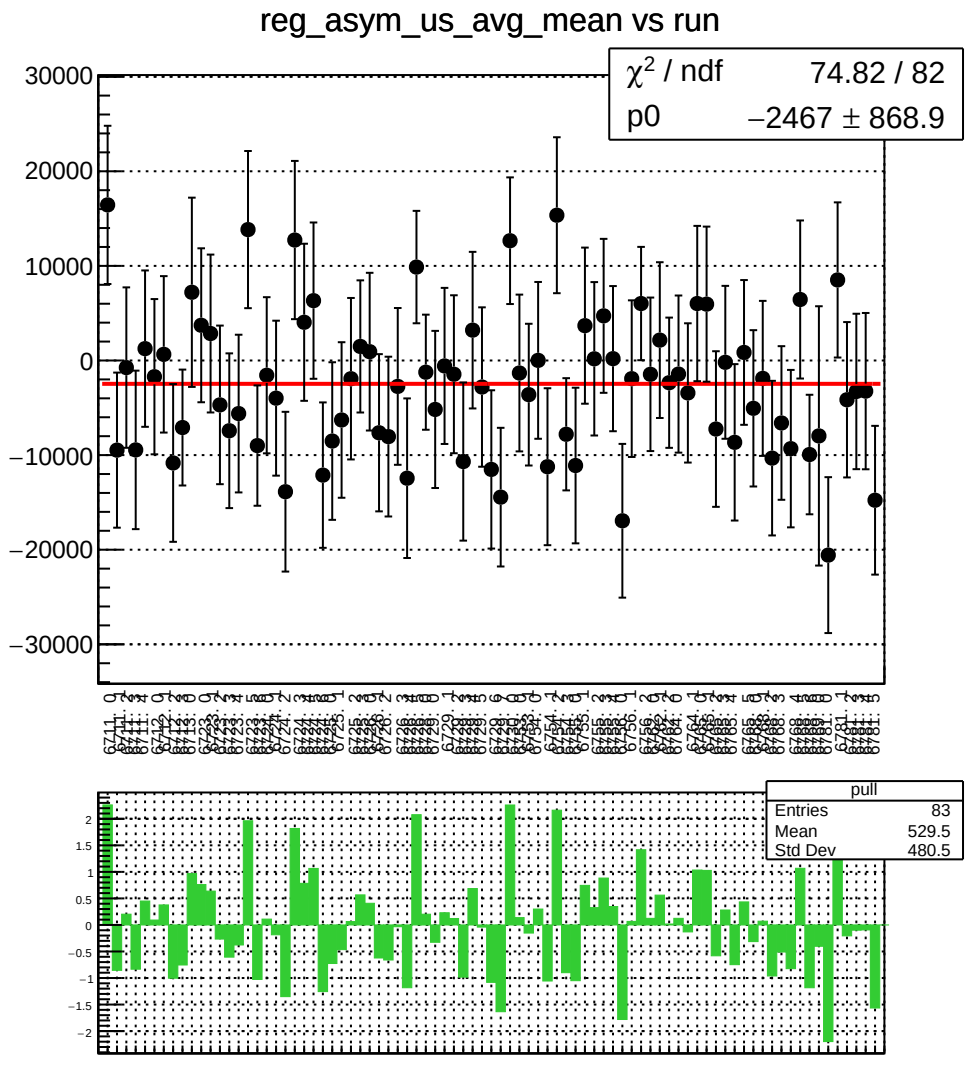
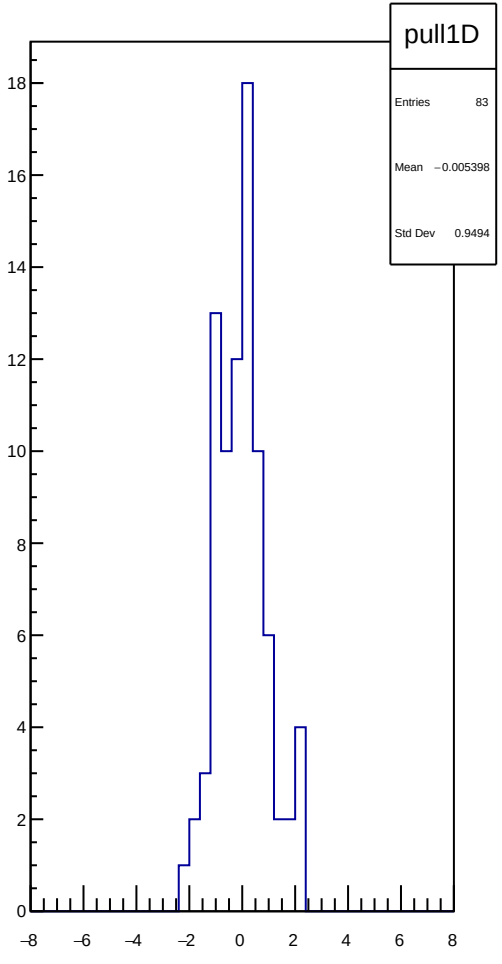
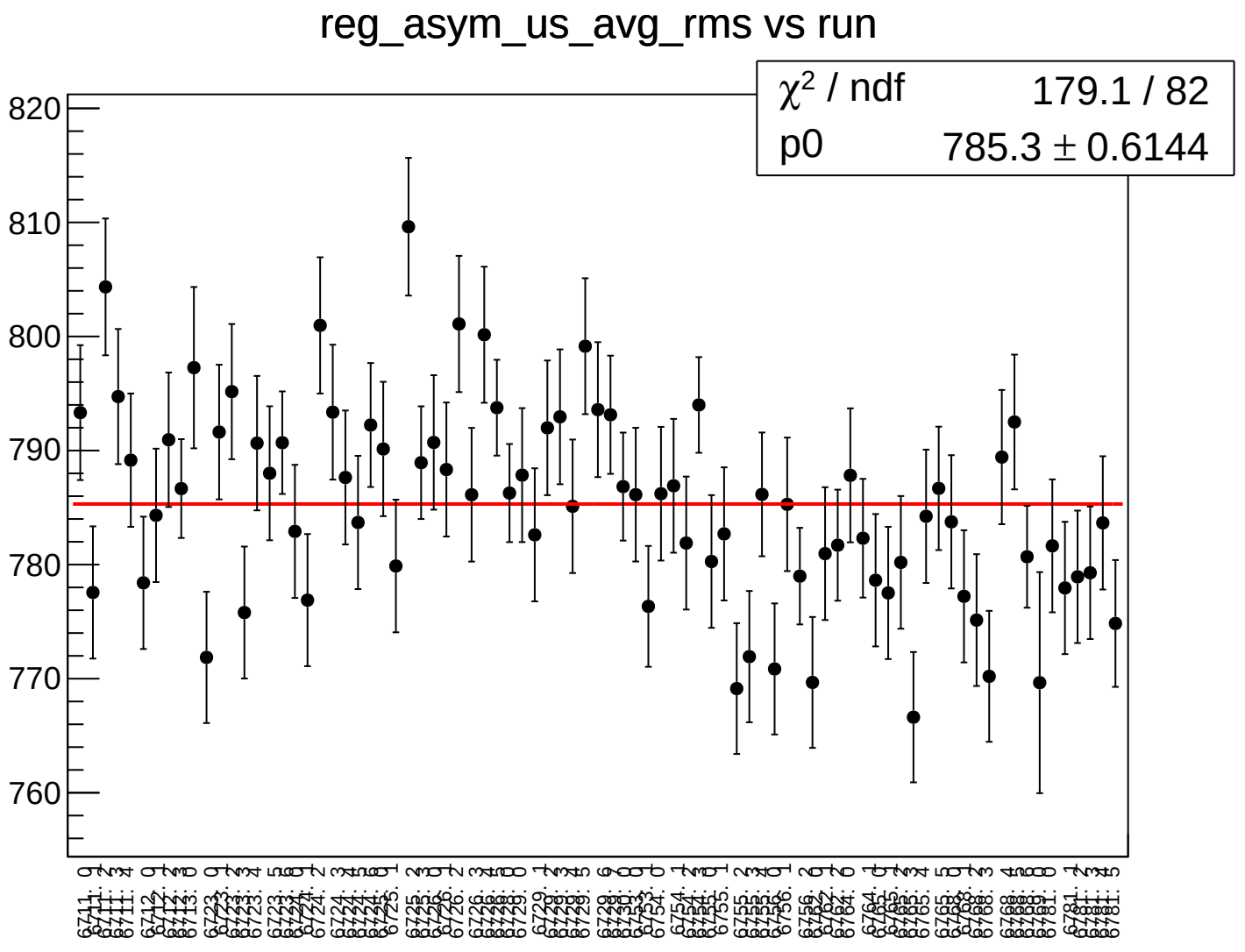
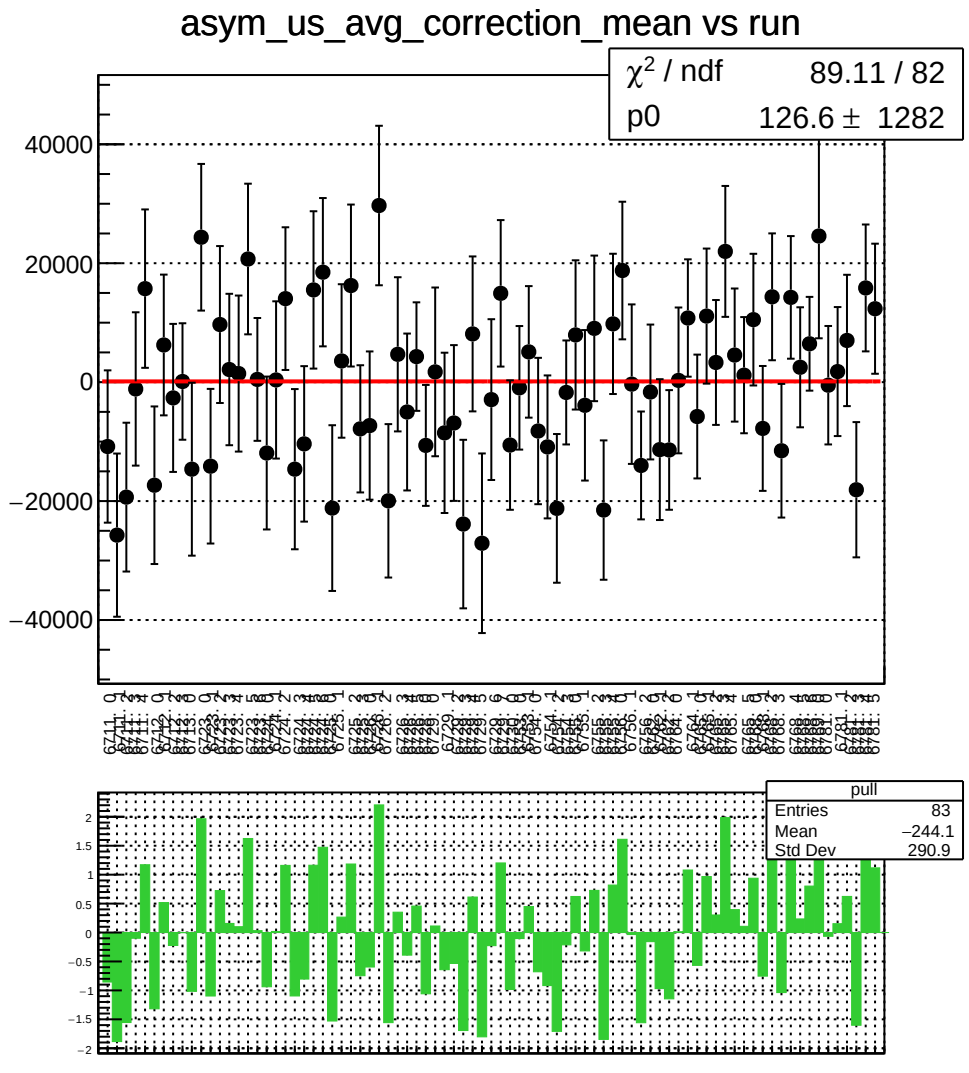
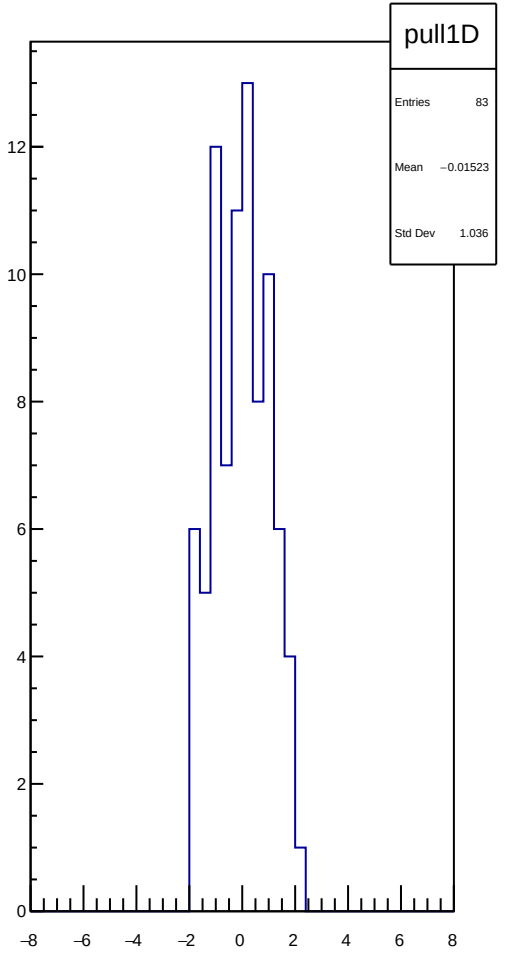
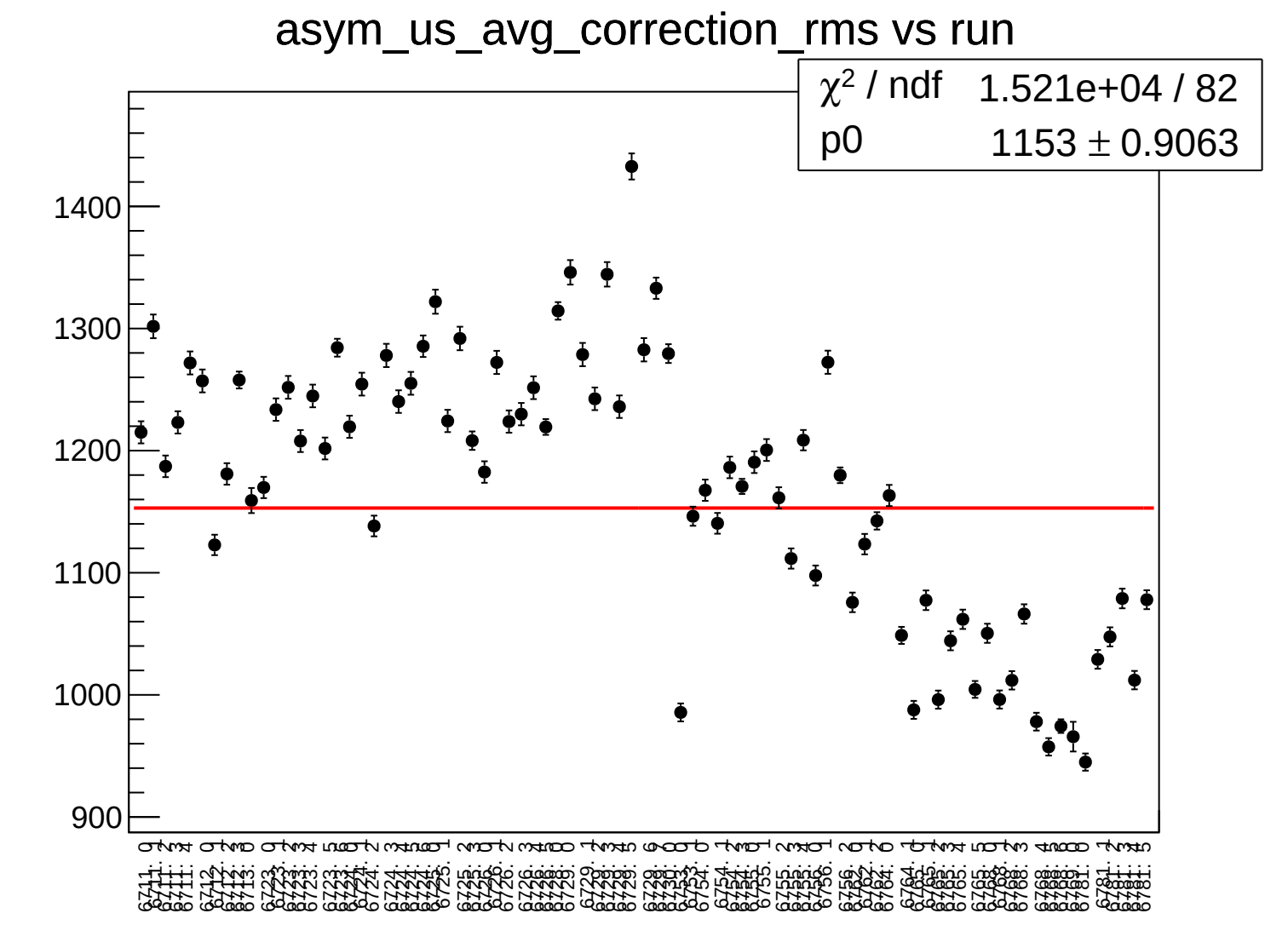

reg_asym_us_avg_mean vs run
χ² / ndf 74.82 / 82
p0 −2467 ± 868.9
pull
Entries 83
Mean 529.5
Std Dev 480.5

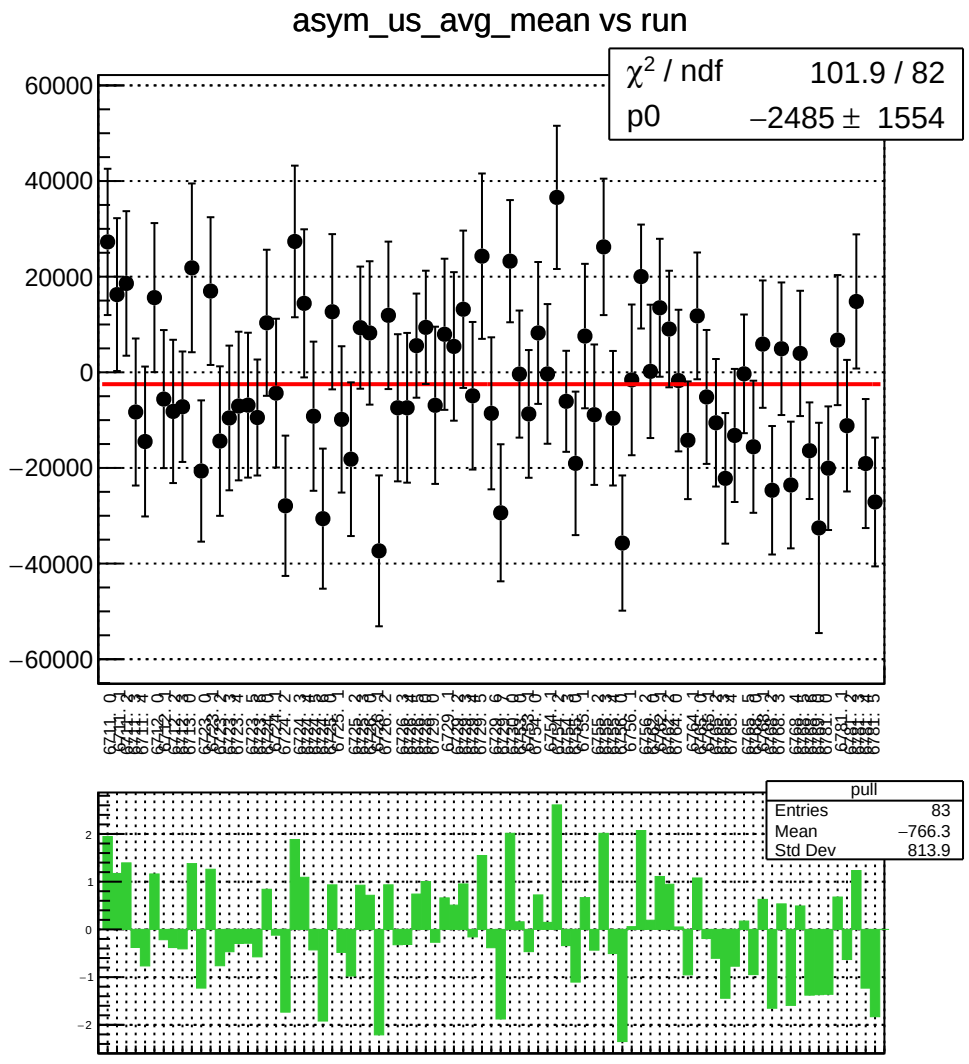

pull1D
Entries 83
Mean −0.005398
Std Dev 0.9494

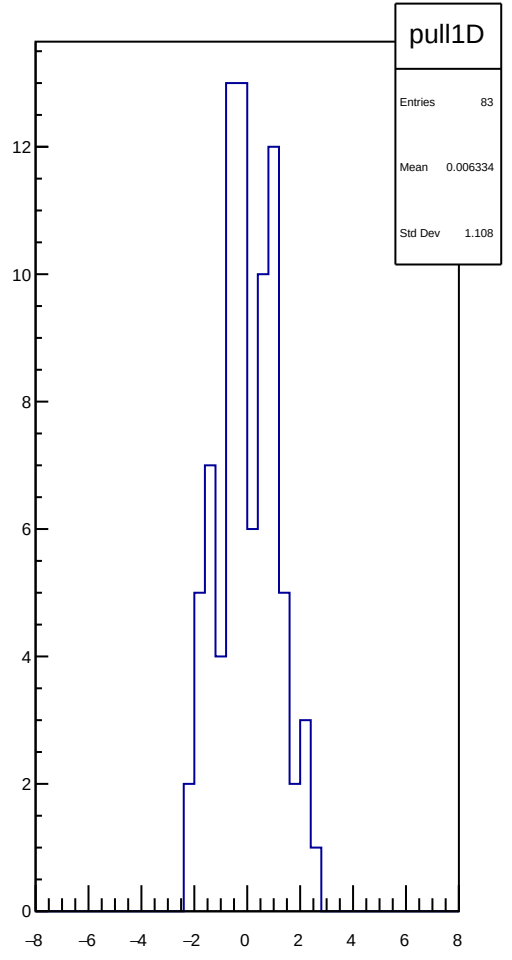

reg_asym_us_avg_rms vs run
χ^2 / ndf 179.1 / 82
p0 785.3 ± 0.6144
820
810
800
790
780
770
760

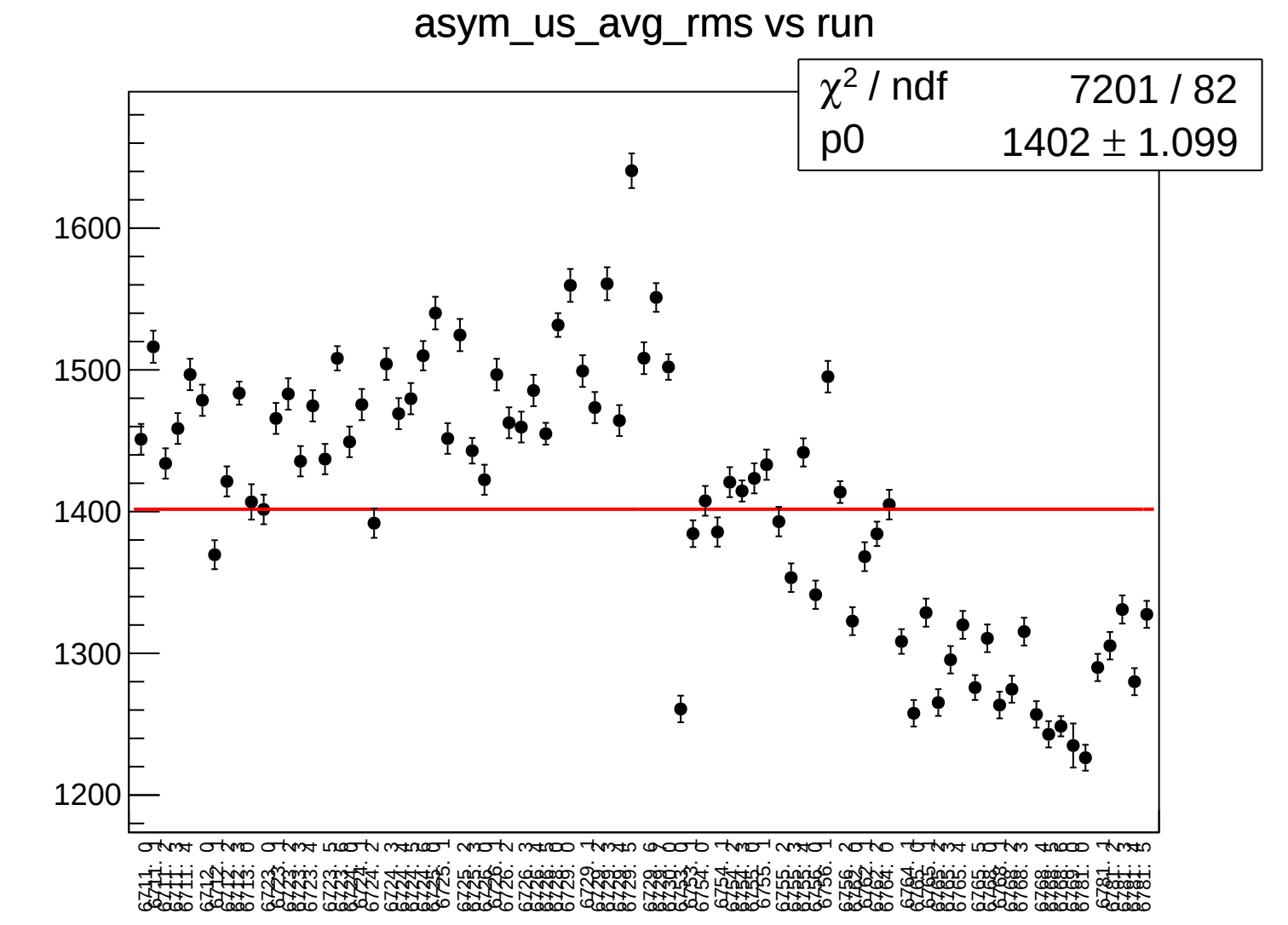

asym_us_avg_correction_mean vs run
χ² / ndf 89.11 / 82
p0 126.6 ± 1282
40000
20000
0
−20000
−40000
pull
Entries 83
Mean −244.1
Std Dev 290.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

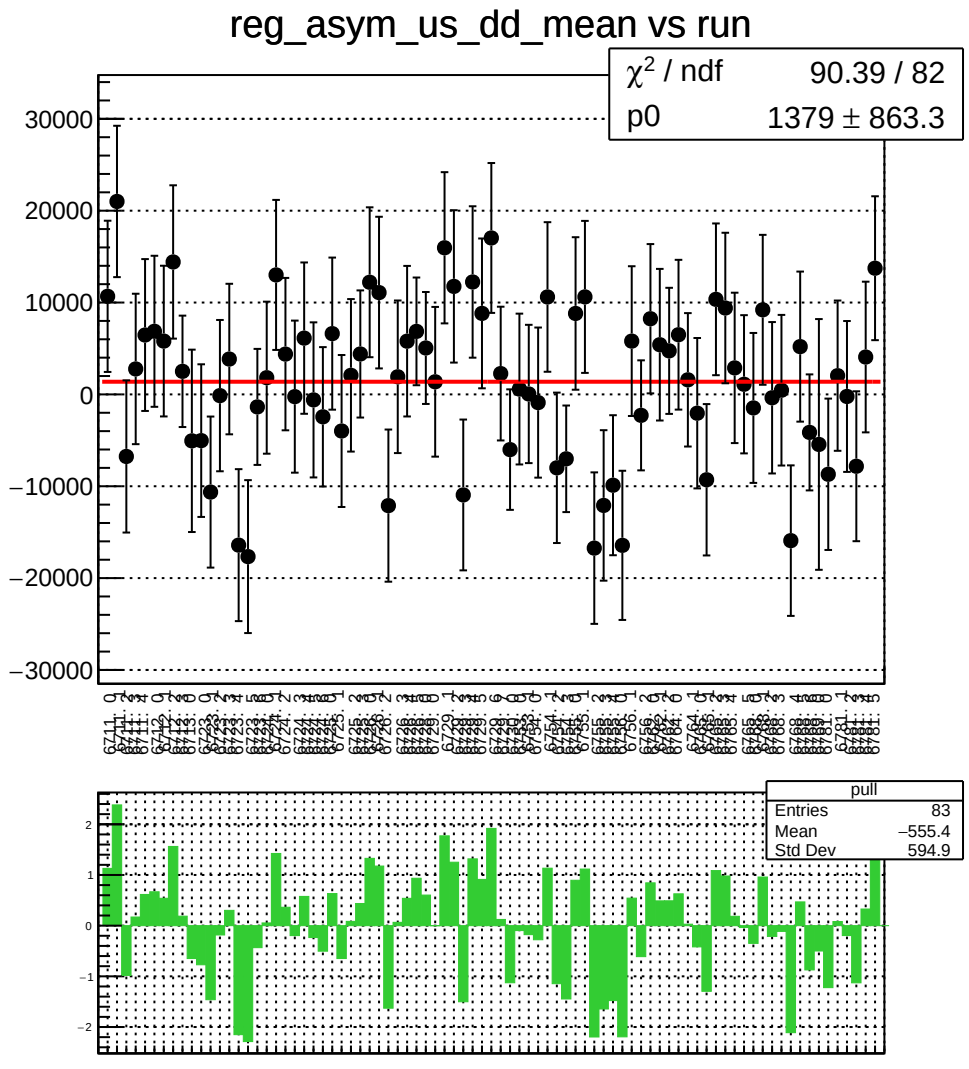

pull1D
Entries 83
Mean −0.01523
Std Dev 1.036
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

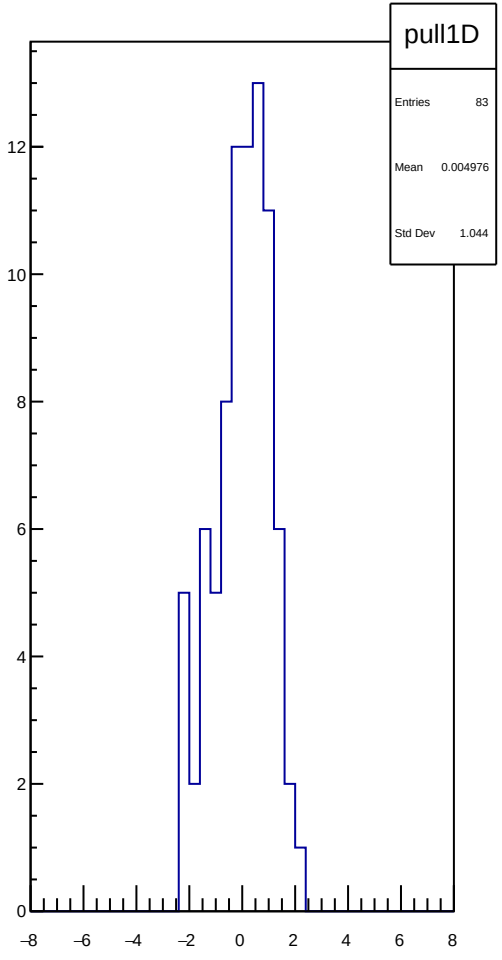

asym_us_avg_correction_rms vs run
χ² / ndf 1.521e+04 / 82
p0 1153 ± 0.9063
1400
1300
1200
1100
1000
900

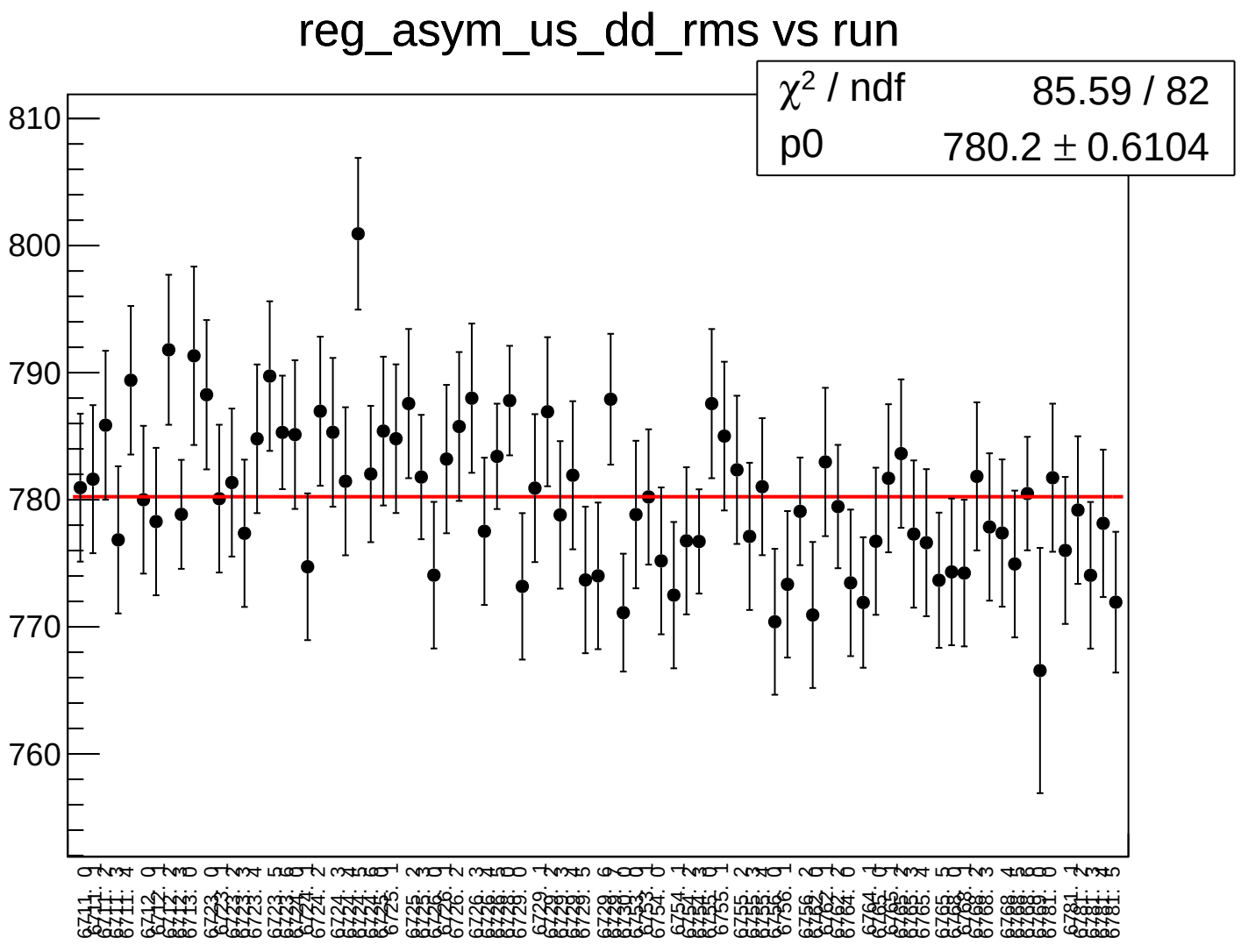

asym_us_avg_mean vs run
χ² / ndf 101.9 / 82
p0 −2485 ± 1554
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean −766.3
Std Dev 813.9
2
1
0
−1
−2

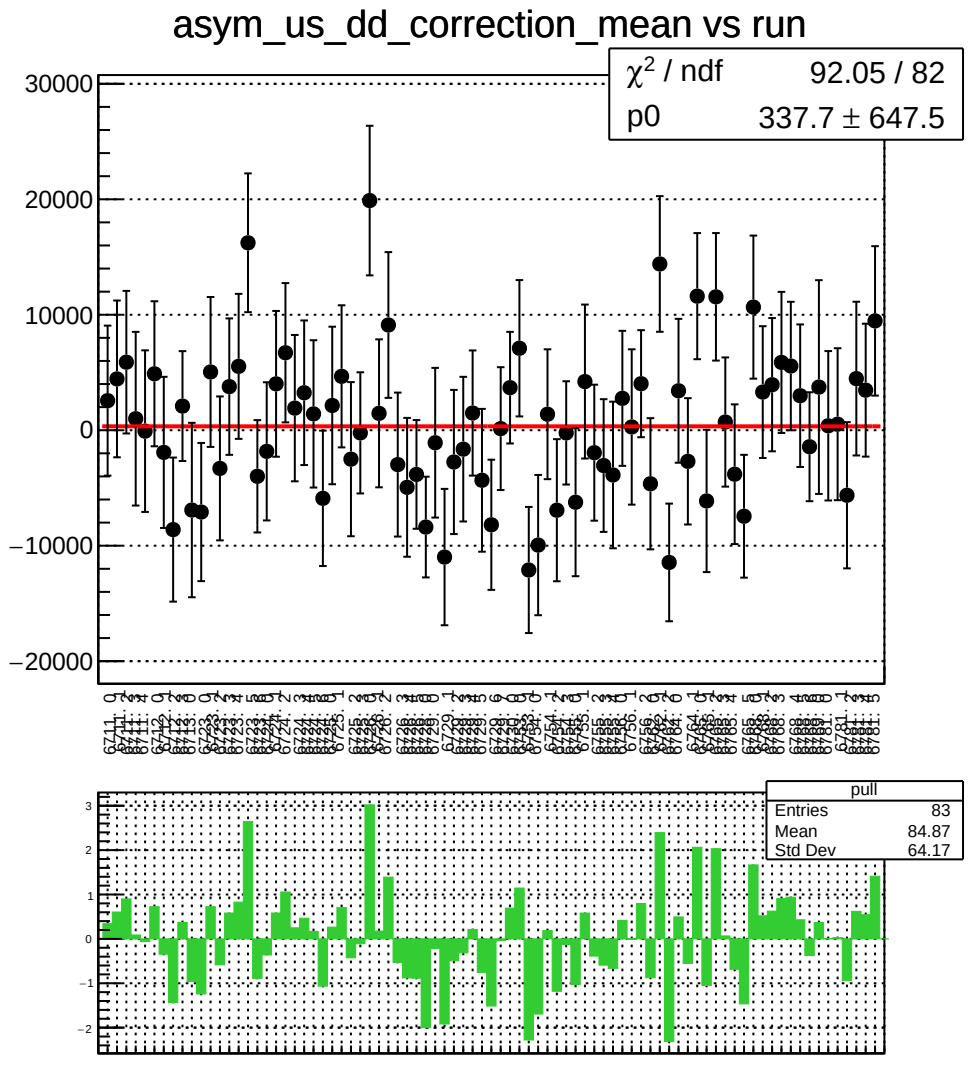

pull1D
Entries 83
Mean 0.006334
Std Dev 1.108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

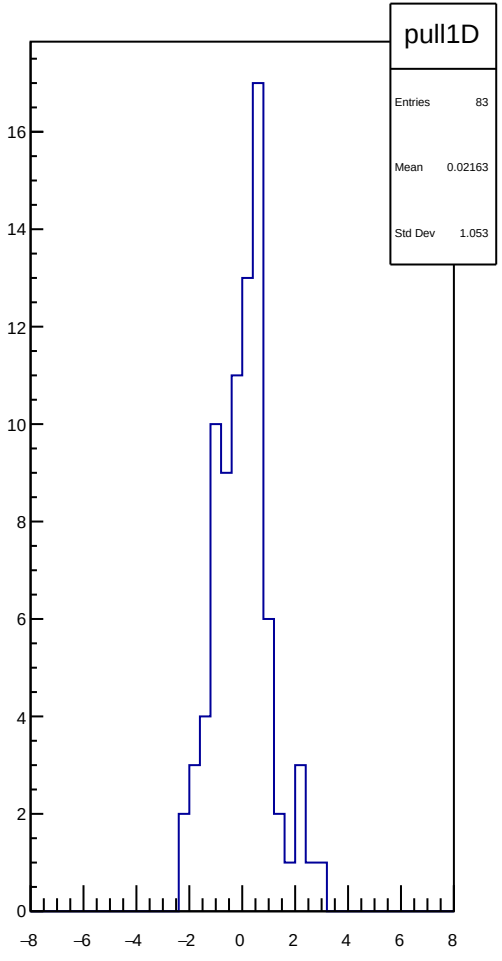

asym_us_avg_rms vs run
χ² / ndf 7201 / 82
p0 1402 ± 1.099
1600
1500
1400
1300
1200

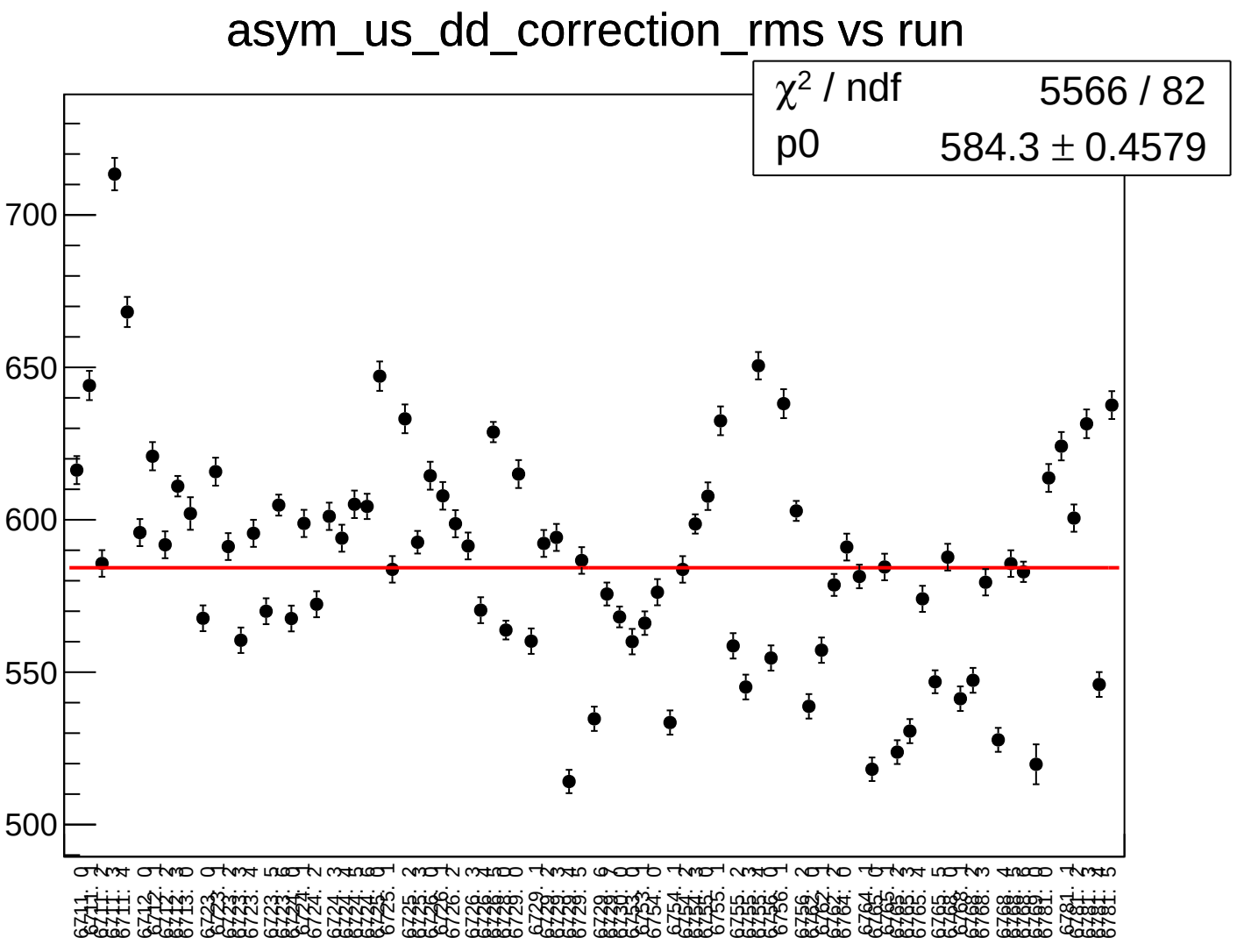

reg_asym_us_dd_mean vs run
χ^2 / ndf 90.39 / 82
p0 1379 ± 863.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean −555.4
Std Dev 594.9
2
1
0
−1
−2

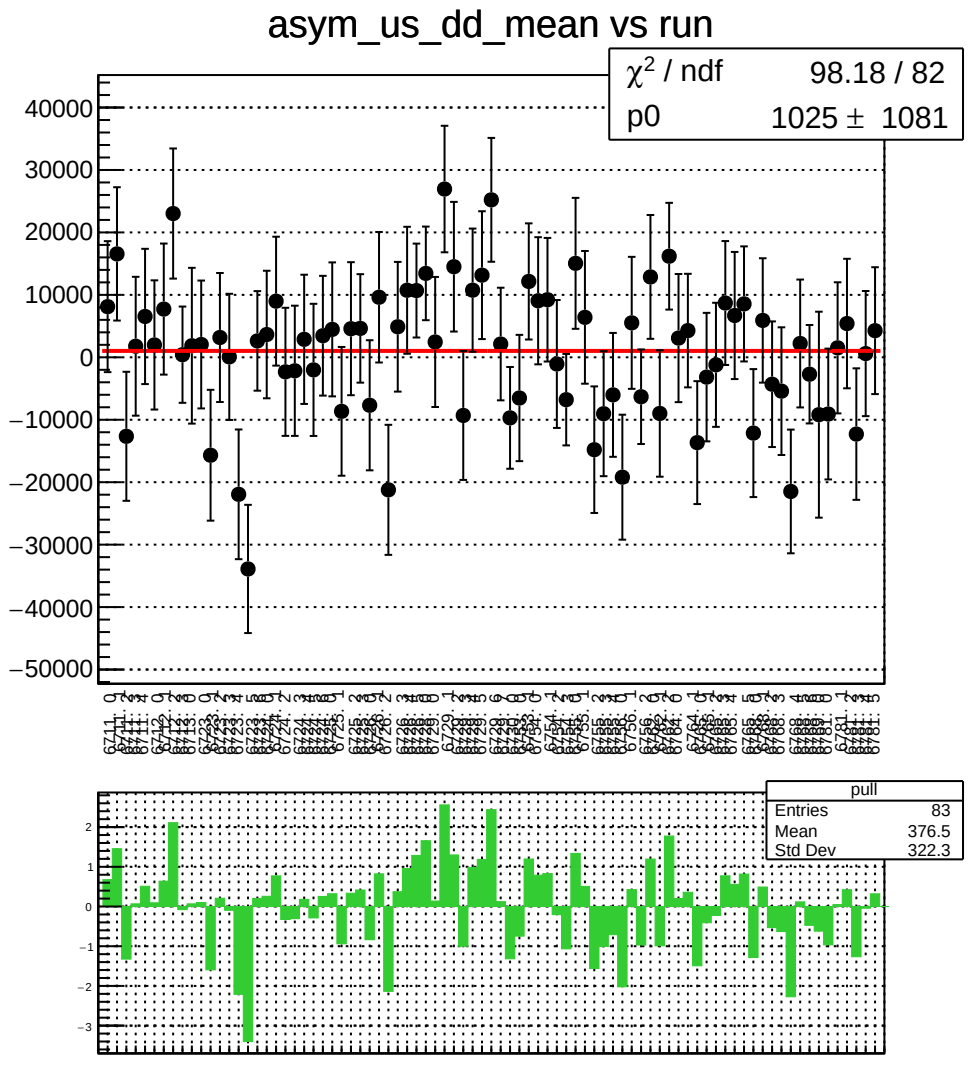

pull1D
Entries 83
Mean 0.004976
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

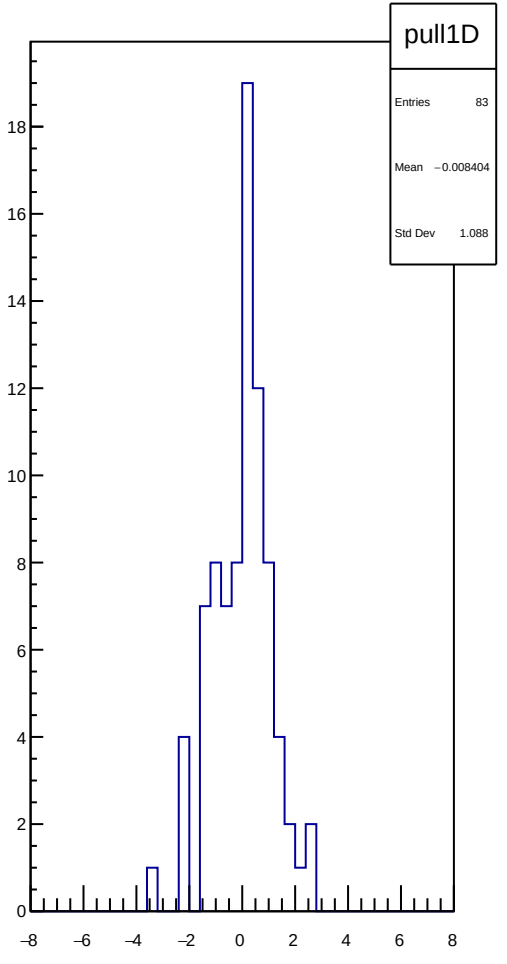

reg_asym_us_dd_rms vs run
χ^2 / ndf 85.59 / 82
p0 780.2 ± 0.6104
810
800
790
780
770
760

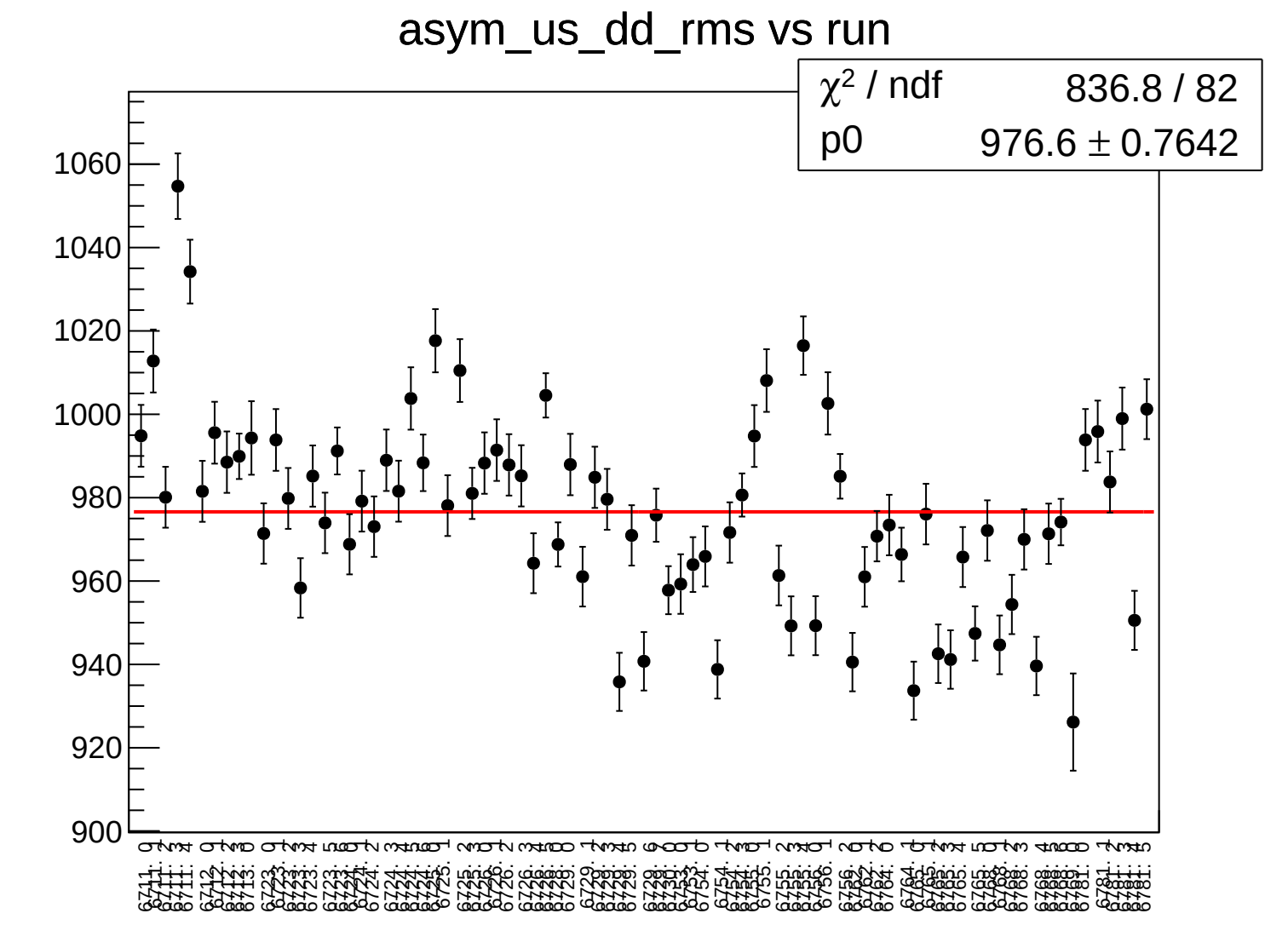

asym_us_dd_correction_mean vs run
χ² / ndf 92.05 / 82
p0 337.7 ± 647.5
pull
Entries 83
Mean 84.87
Std Dev 64.17

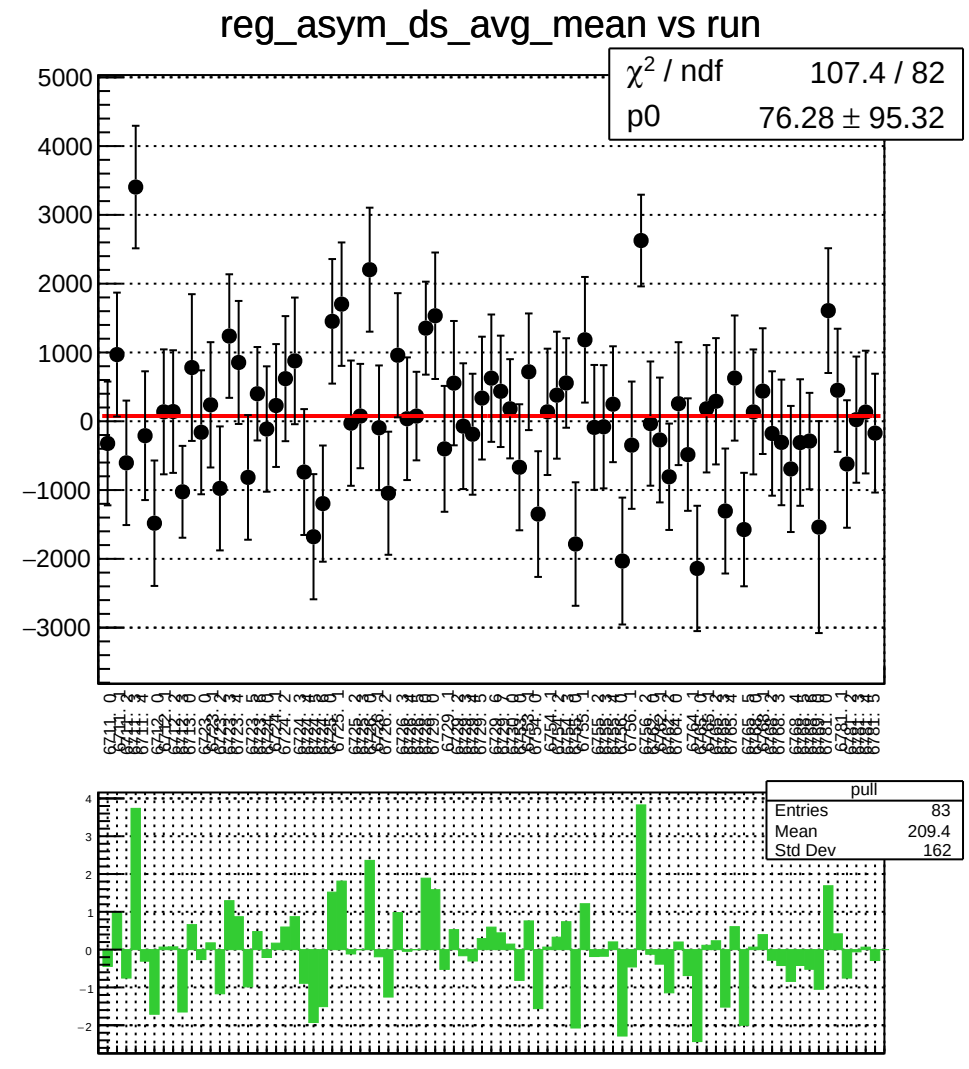

pull1D
Entries 83
Mean 0.02163
Std Dev 1.053

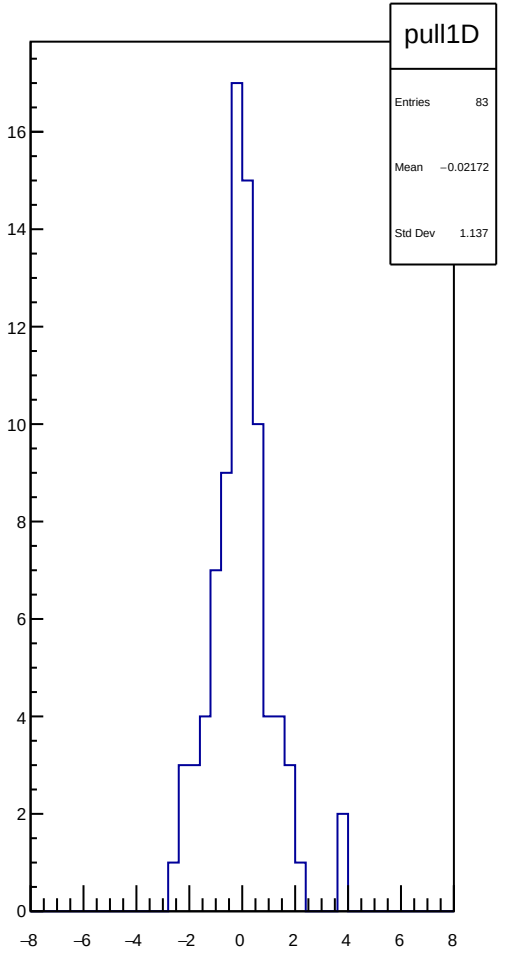

asym_us_dd_correction_rms vs run
χ² / ndf 5566 / 82
p0 584.3 ± 0.4579
700
650
600
550
500

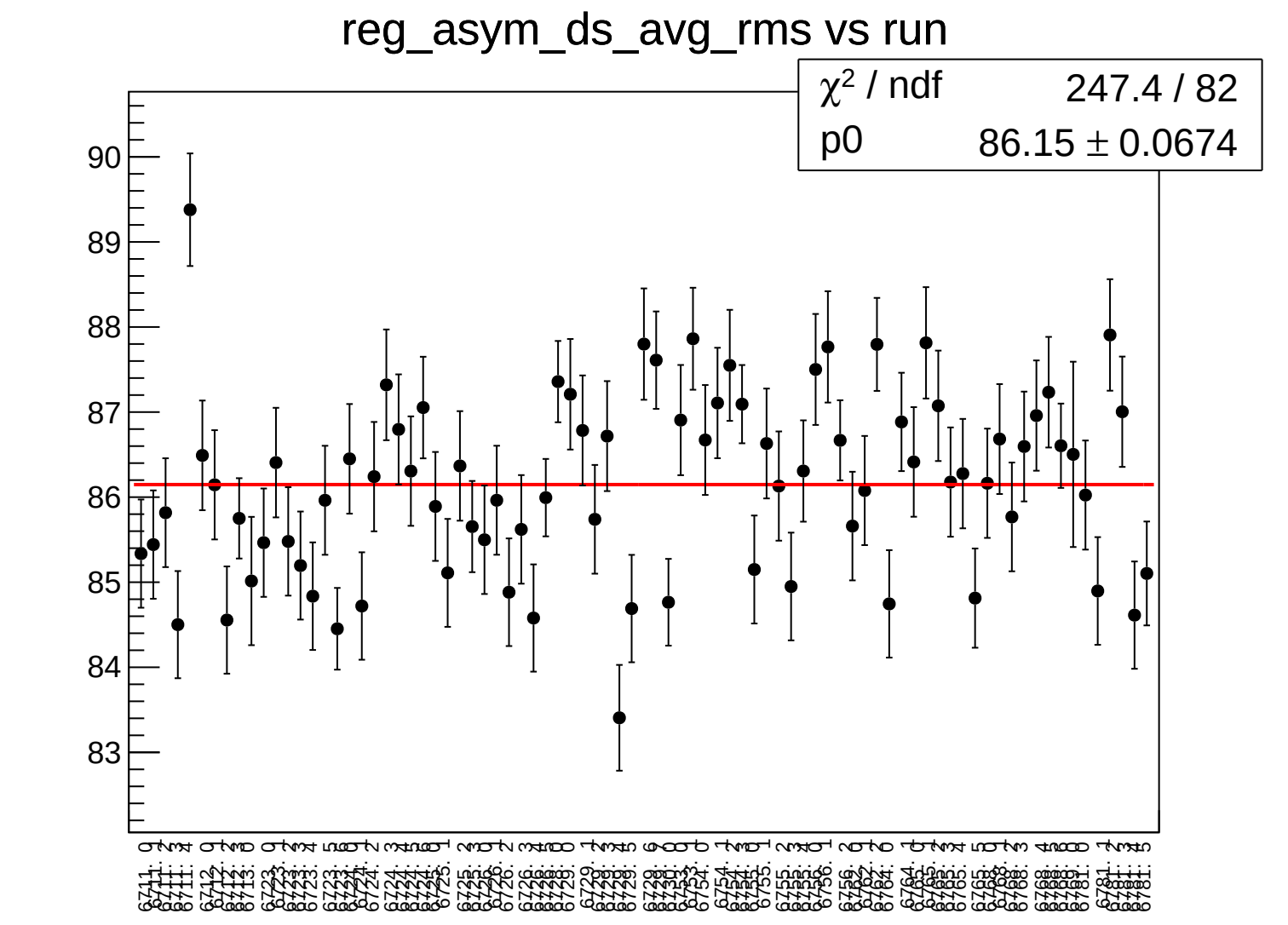

asym_us_dd_mean vs run
χ² / ndf 98.18 / 82
p0 1025 ± 1081
pull
Entries 83
Mean 376.5
Std Dev 322.3

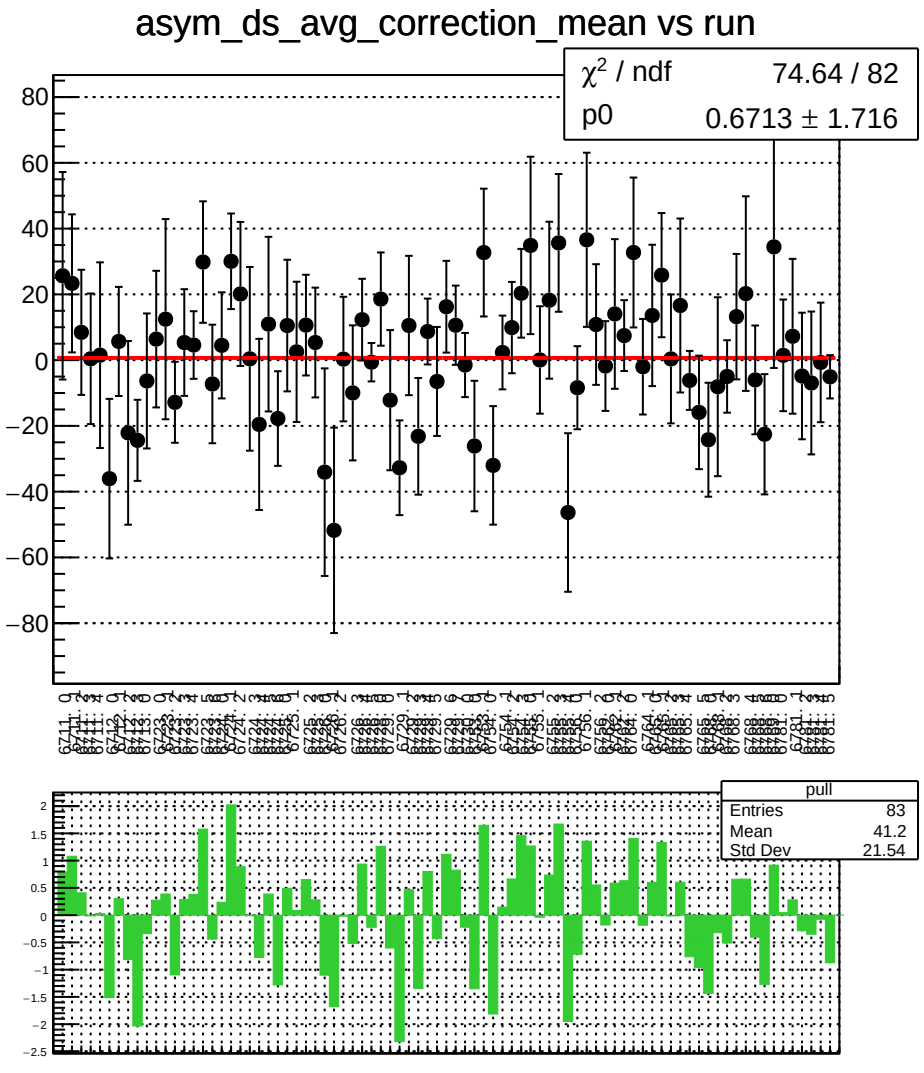

pull1D
Entries 83
Mean −0.008404
Std Dev 1.088

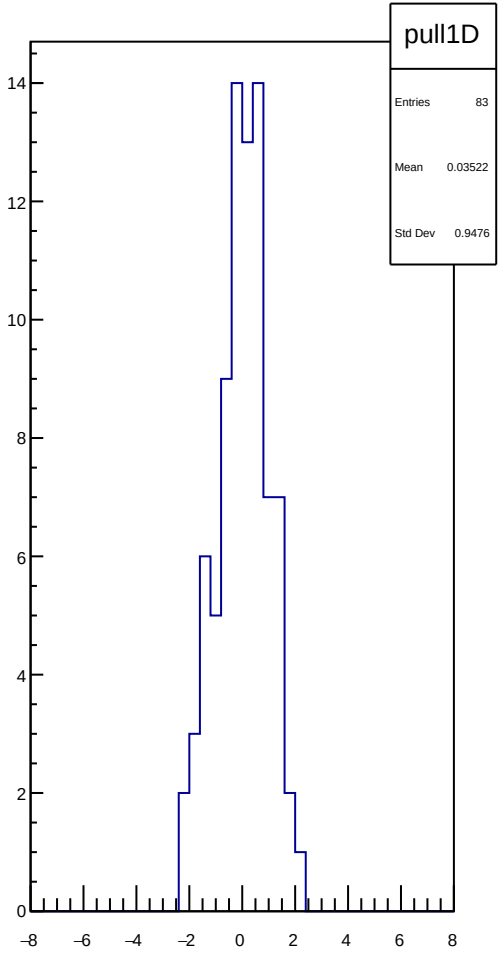

asym_us_dd_rms vs run
χ² / ndf 836.8 / 82
p0 976.6 ± 0.7642
1060
1040
1020
1000
980
960
940
920
900

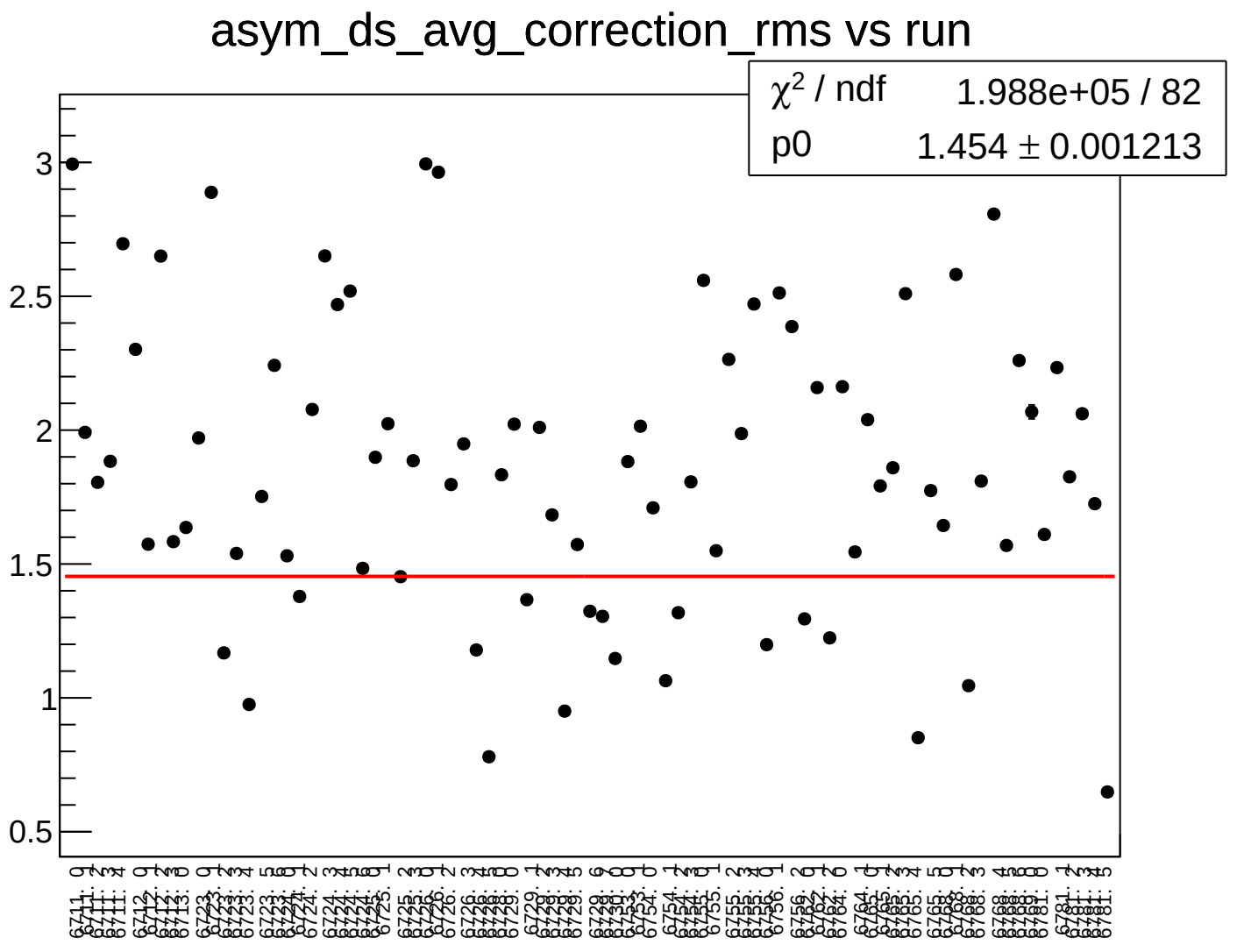

reg_asym_ds_avg_mean vs run
χ^2 / ndf 107.4 / 82
p0 76.28 ± 95.32
pull
Entries 83
Mean 209.4
Std Dev 162

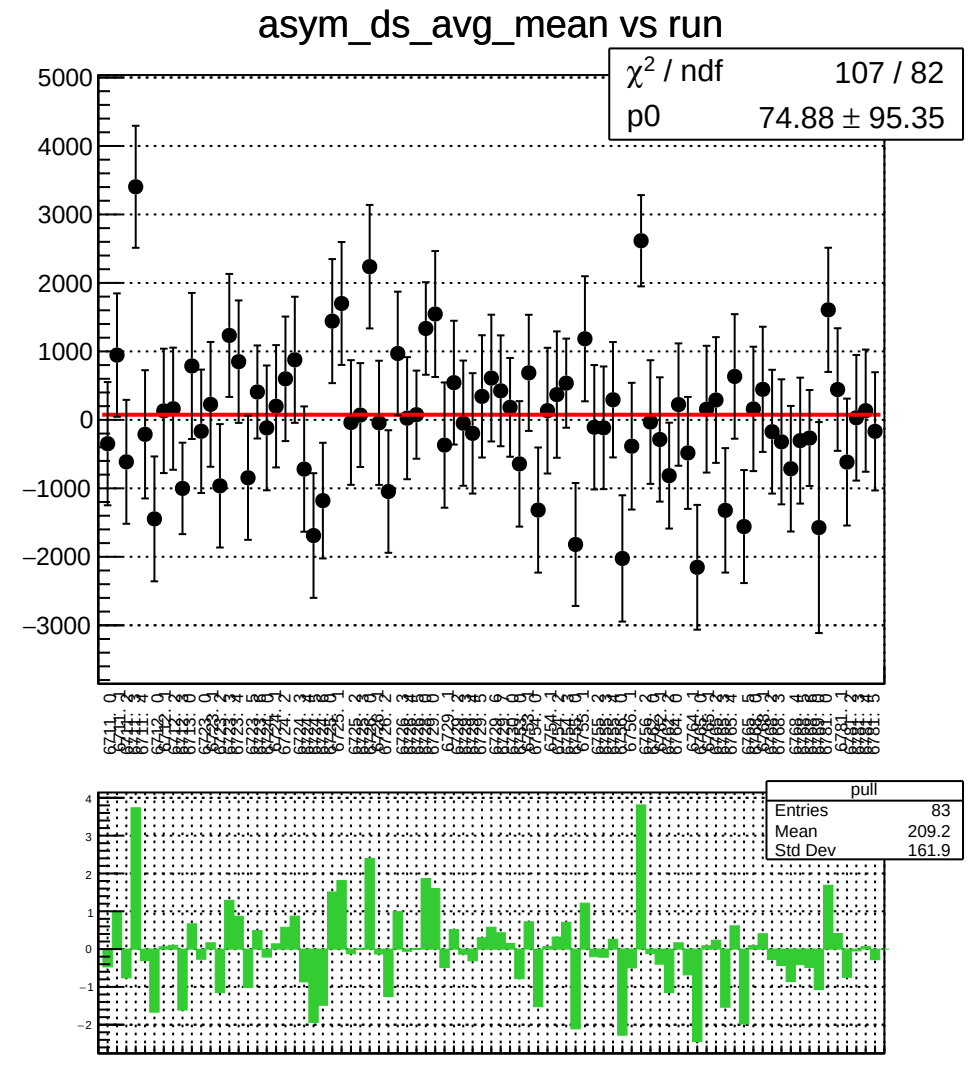

pull1D
Entries 83
Mean −0.02172
Std Dev 1.137

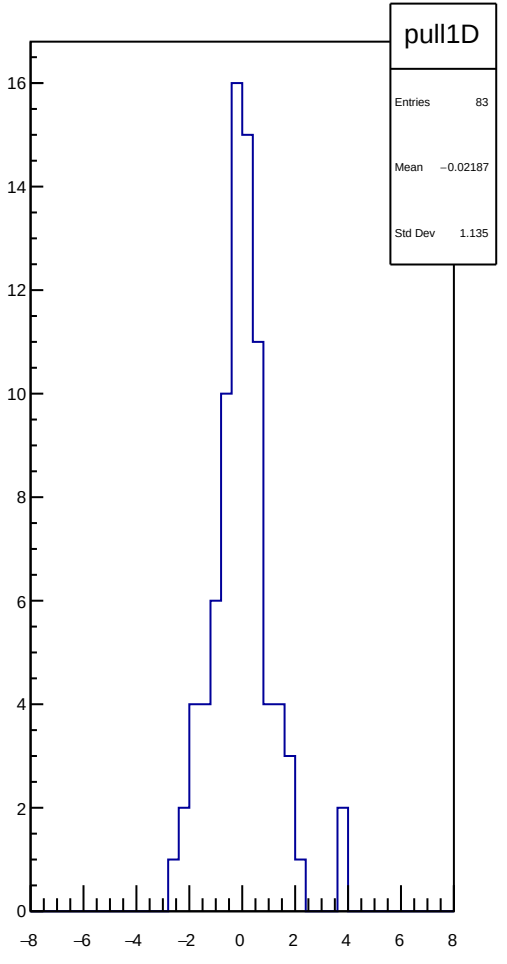

reg_asym_ds_avg_rms vs run
χ² / ndf 247.4 / 82
p0 86.15 ± 0.0674
90
89
88
87
86
85
84
83

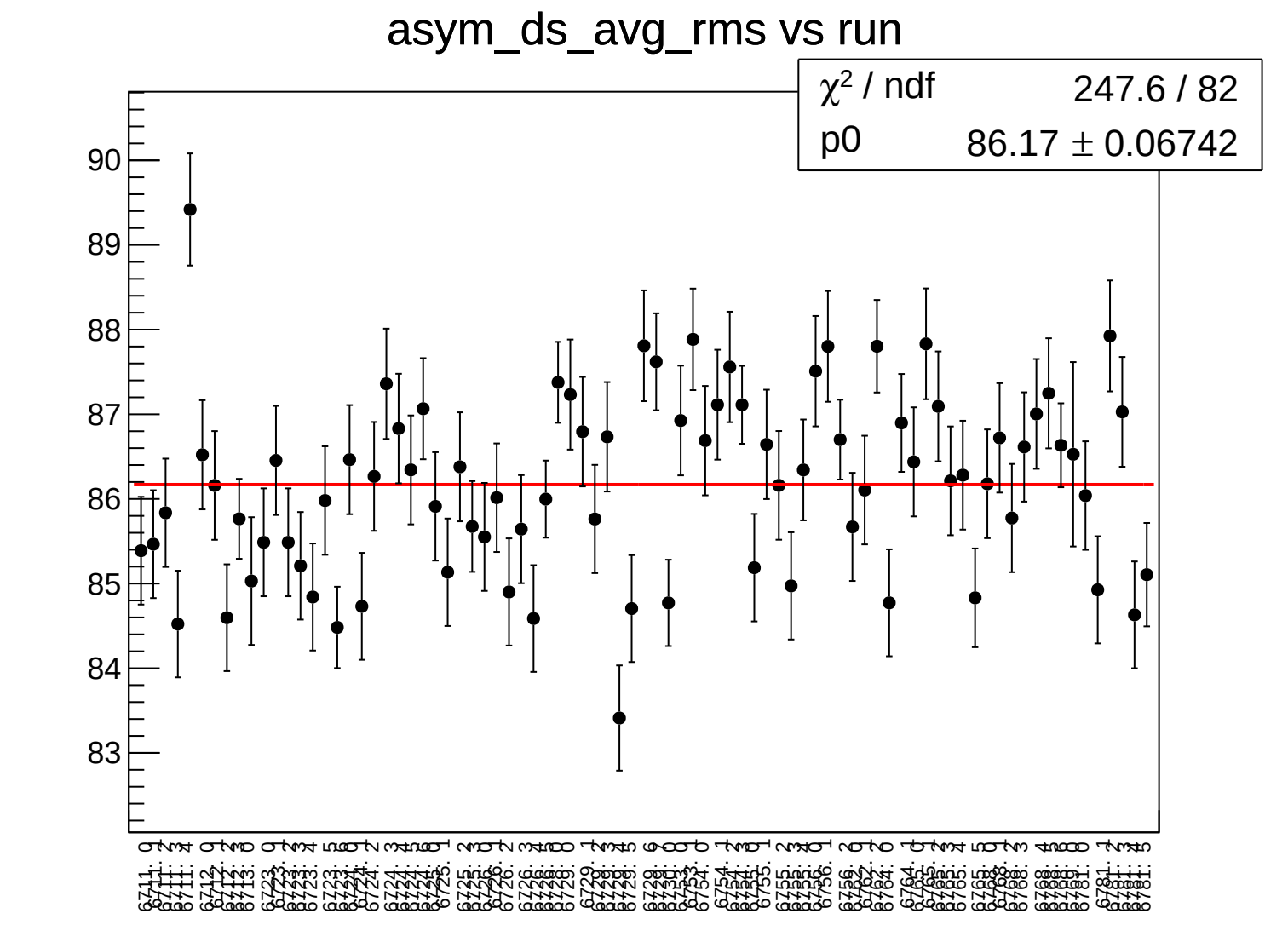

asym_ds_avg_correction_mean vs run
χ² / ndf 74.64 / 82
p0 0.6713 ± 1.716
pull
Entries 83
Mean 41.2
Std Dev 21.54

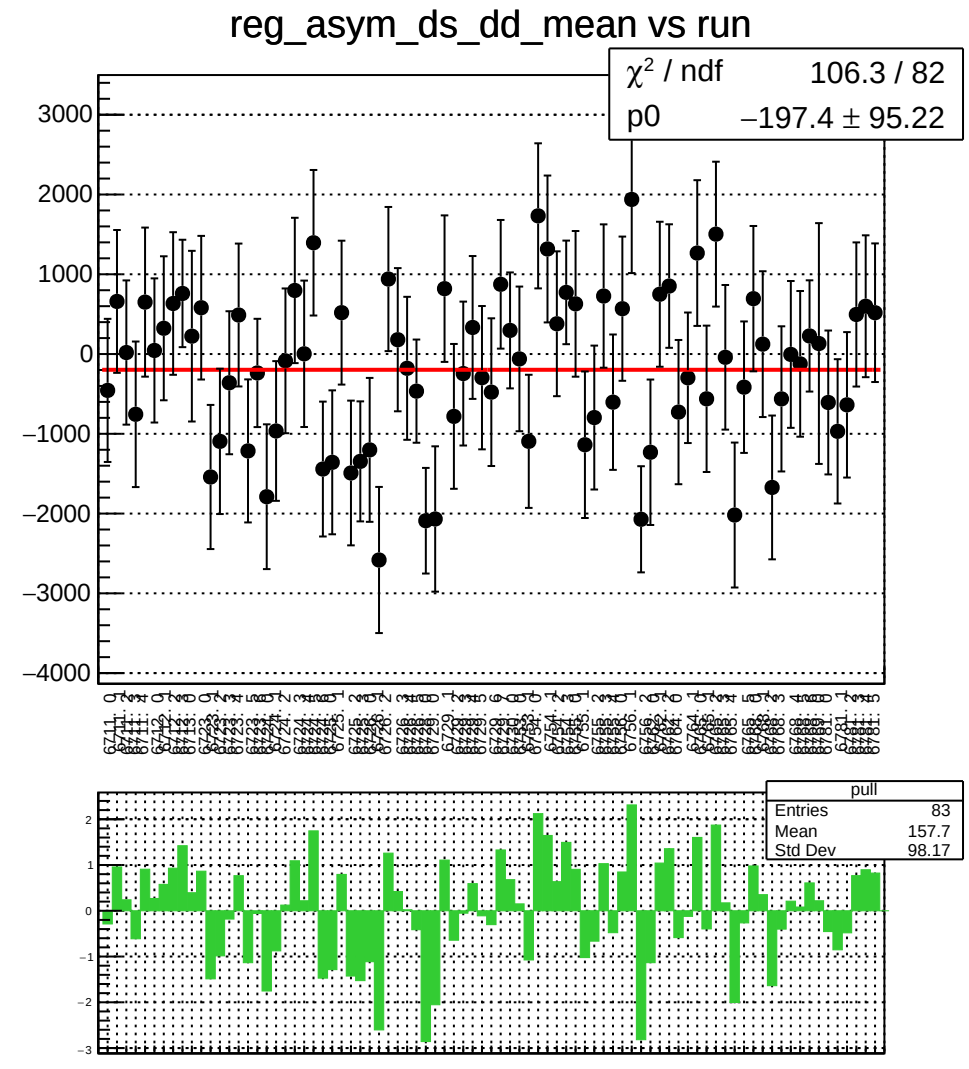

pull1D
Entries 83
Mean 0.03522
Std Dev 0.9476

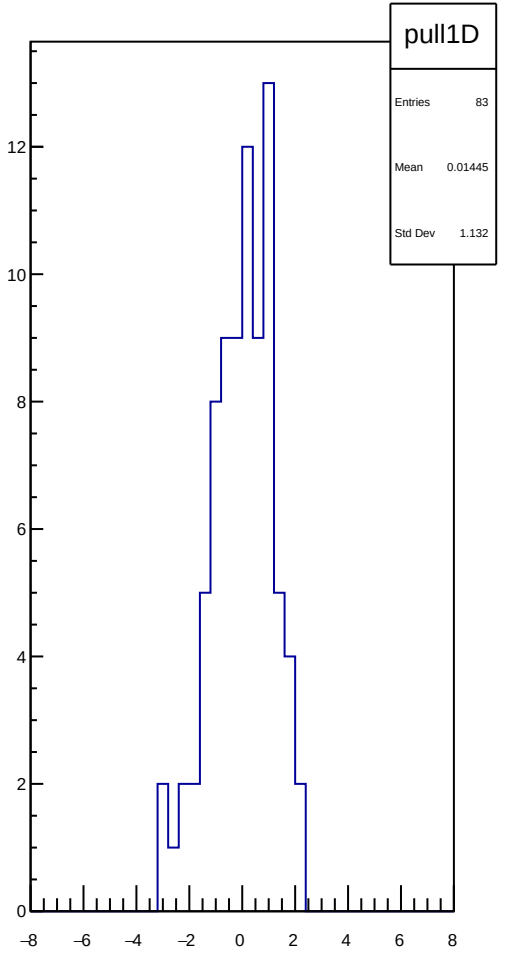

asym_ds_avg_correction_rms vs run
χ^2 / ndf 1.988e+05 / 82
p0 1.454 ± 0.001213
3
2.5
2
1.5
1
0.5

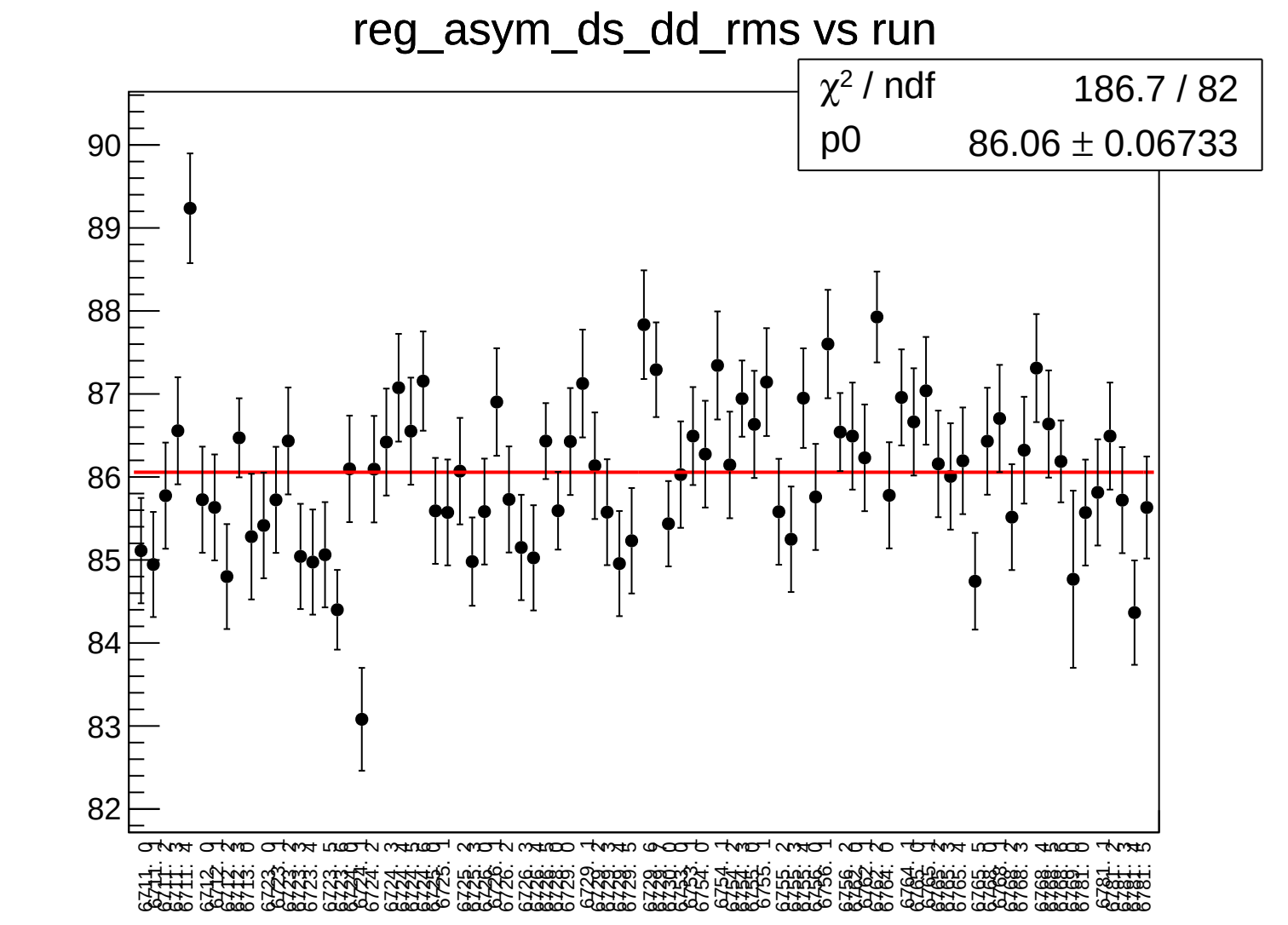

asym_ds_avg_mean vs run
χ^2 / ndf 107 / 82
p0 74.88 ± 95.35
pull
Entries 83
Mean 209.2
Std Dev 161.9

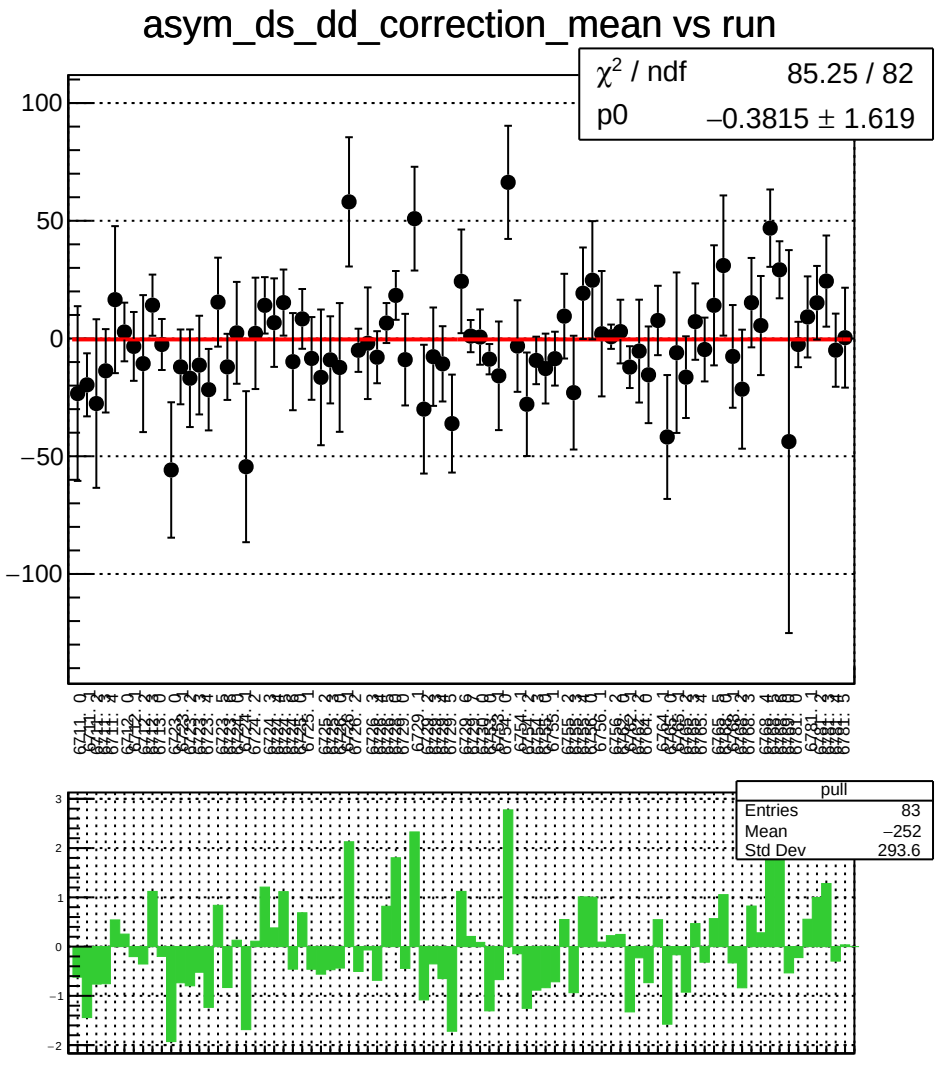

pull1D
Entries 83
Mean −0.02187
Std Dev 1.135

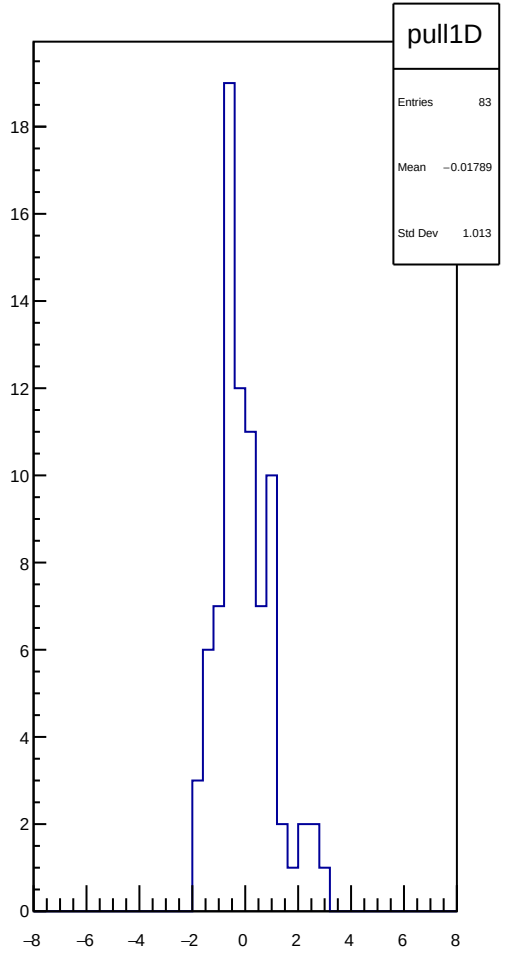

asym_ds_avg_rms vs run
χ² / ndf 247.6 / 82
p0 86.17 ± 0.06742
90
89
88
87
86
85
84
83

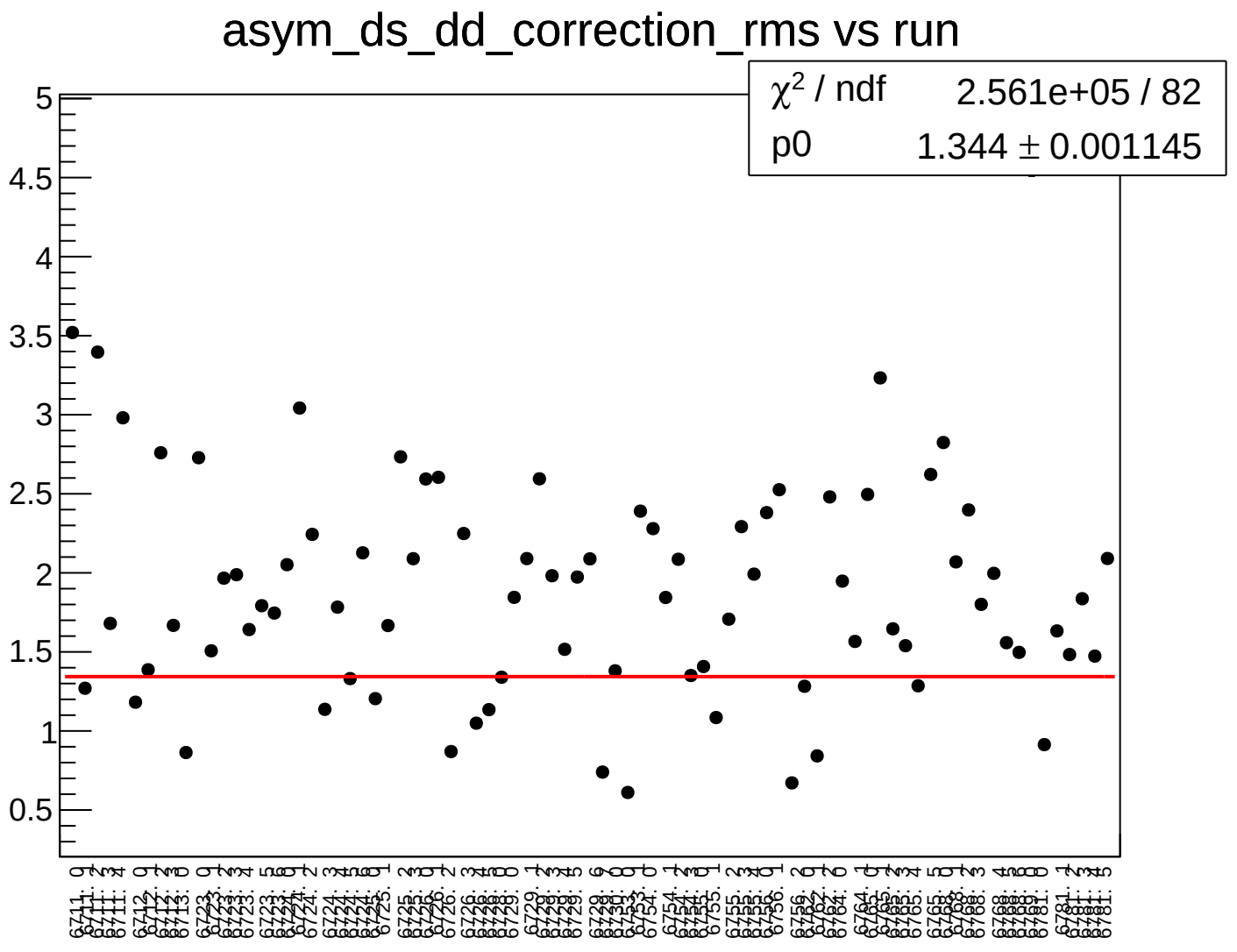

reg_asym_ds_dd_mean vs run
χ² / ndf 106.3 / 82
p0 −197.4 ± 95.22
pull
Entries 83
Mean 157.7
Std Dev 98.17

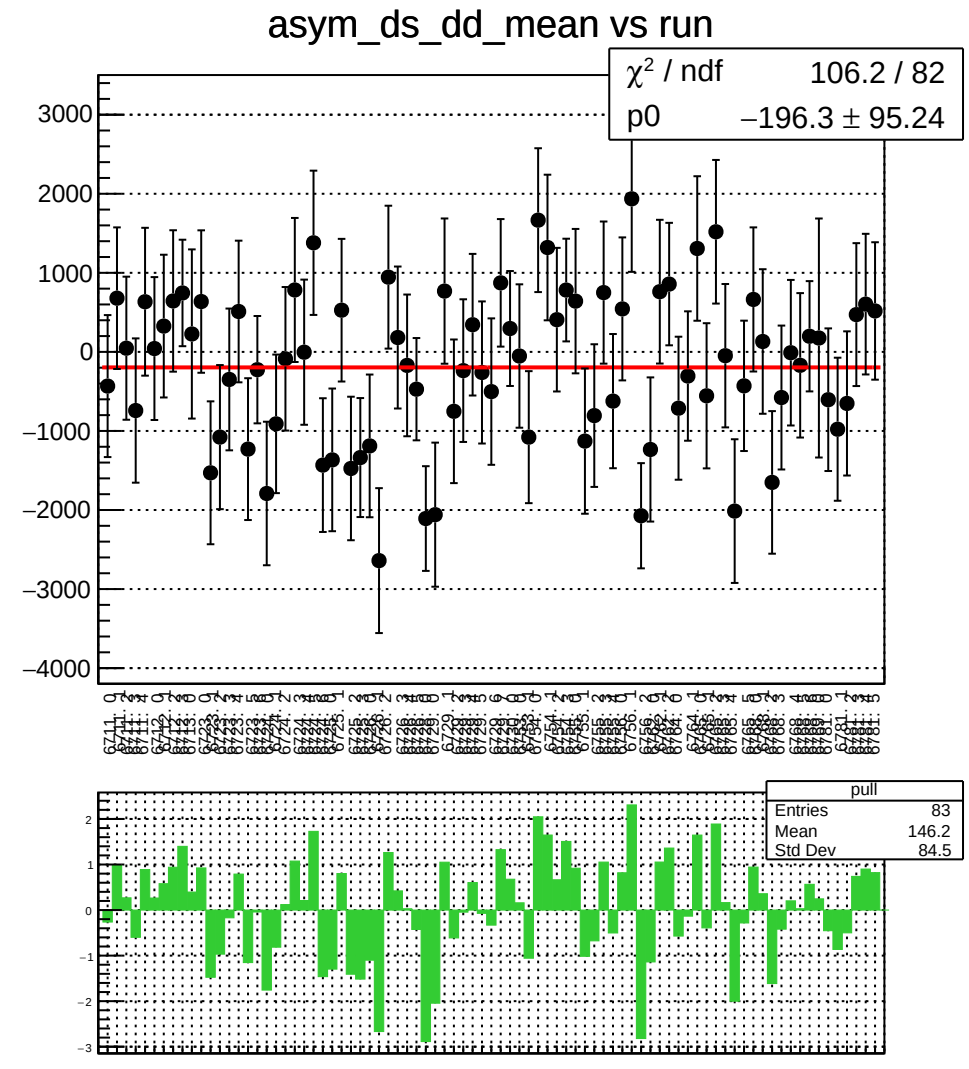

pull1D
Entries 83
Mean 0.01445
Std Dev 1.132

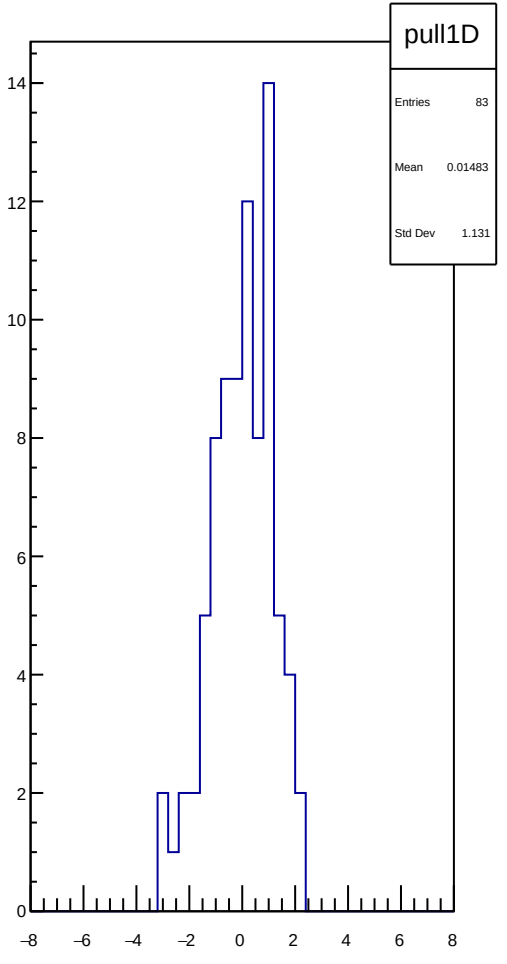

reg_asym_ds_dd_rms vs run
χ² / ndf 186.7 / 82
p0 86.06 ± 0.06733
90
89
88
87
86
85
84
83
82

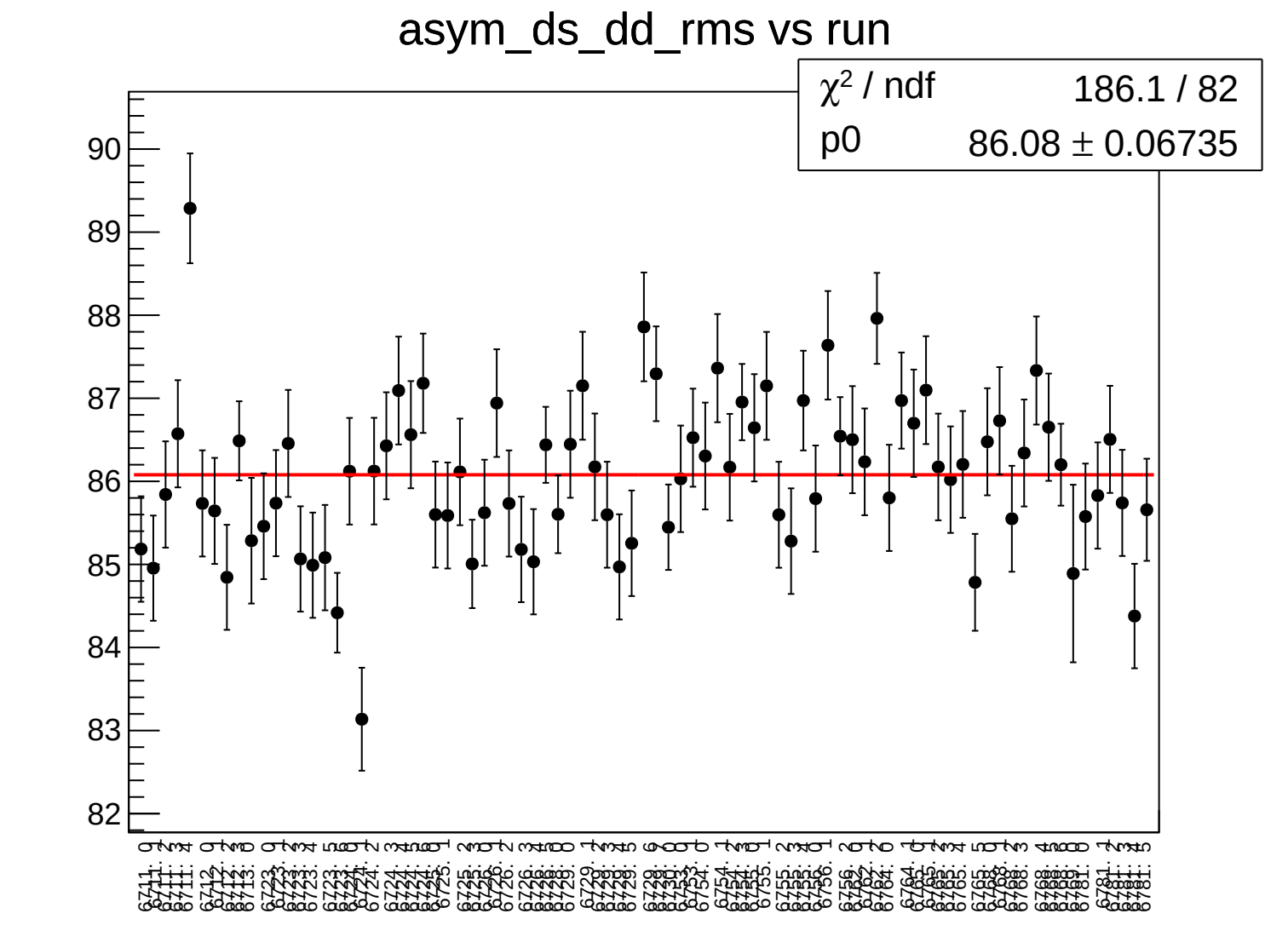

asym_ds_dd_correction_mean vs run
χ² / ndf 85.25 / 82
p0 −0.3815 ± 1.619
pull
Entries 83
Mean −252
Std Dev 293.6

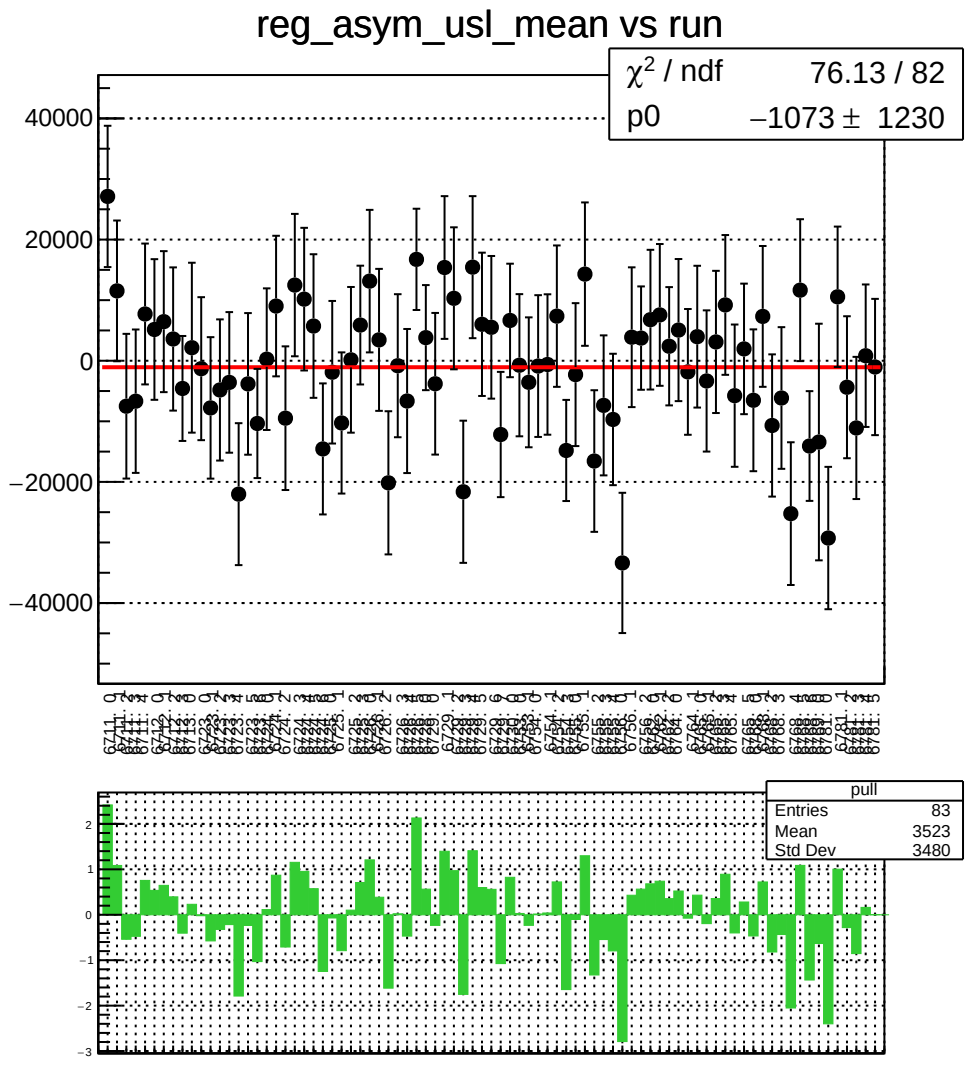

pull1D
Entries 83
Mean −0.01789
Std Dev 1.013

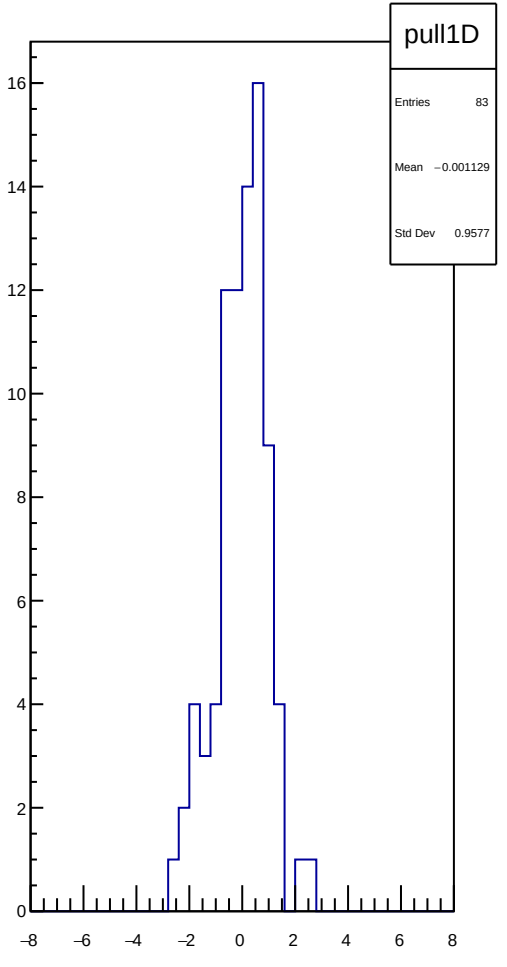

asym_ds_dd_correction_rms vs run
χ^2 / ndf 2.561e+05 / 82
p0 1.344 ± 0.001145
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5

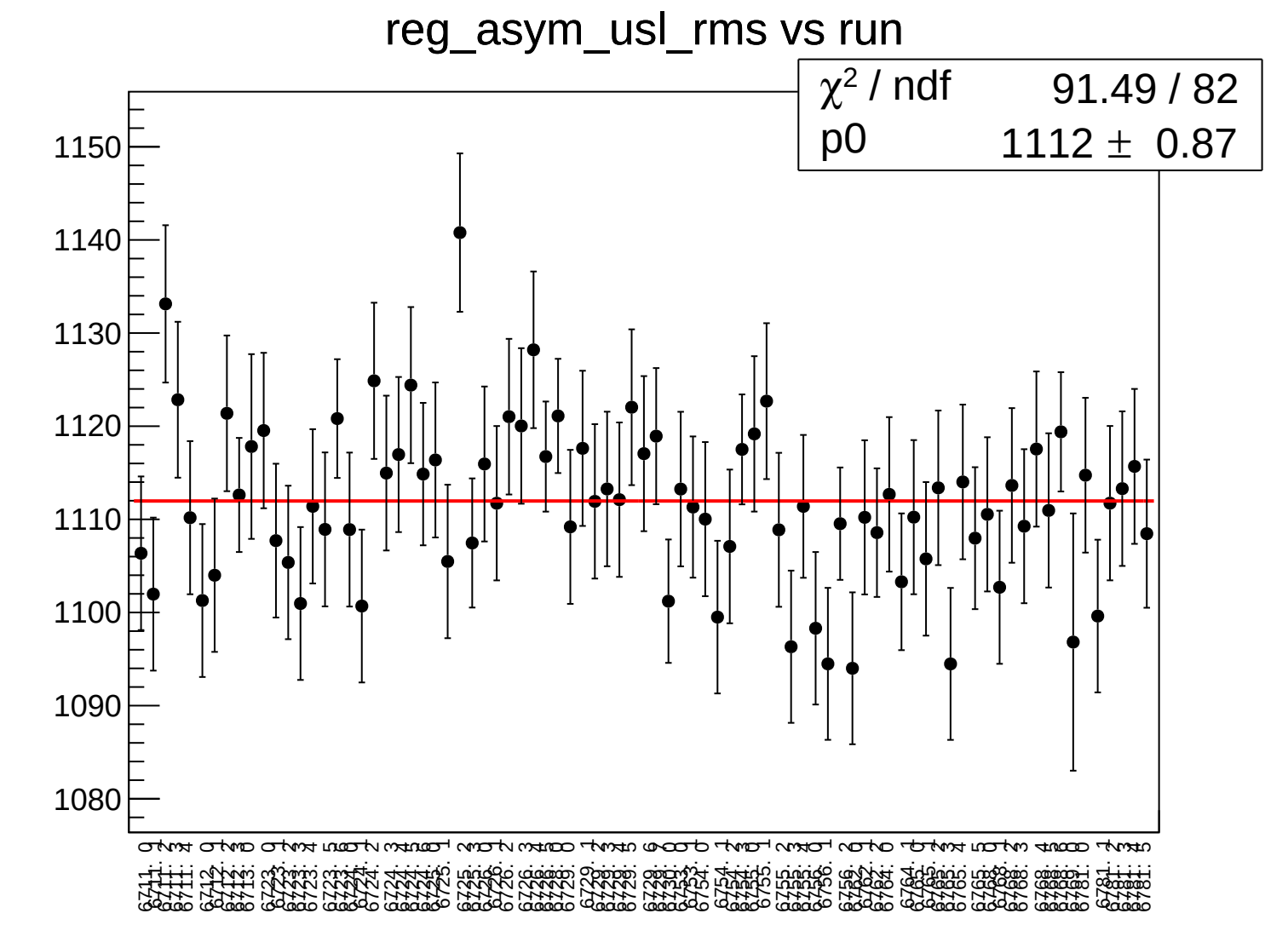

asym_ds_dd_mean vs run
χ² / ndf 106.2 / 82
p0 −196.3 ± 95.24
pull
Entries 83
Mean 146.2
Std Dev 84.5

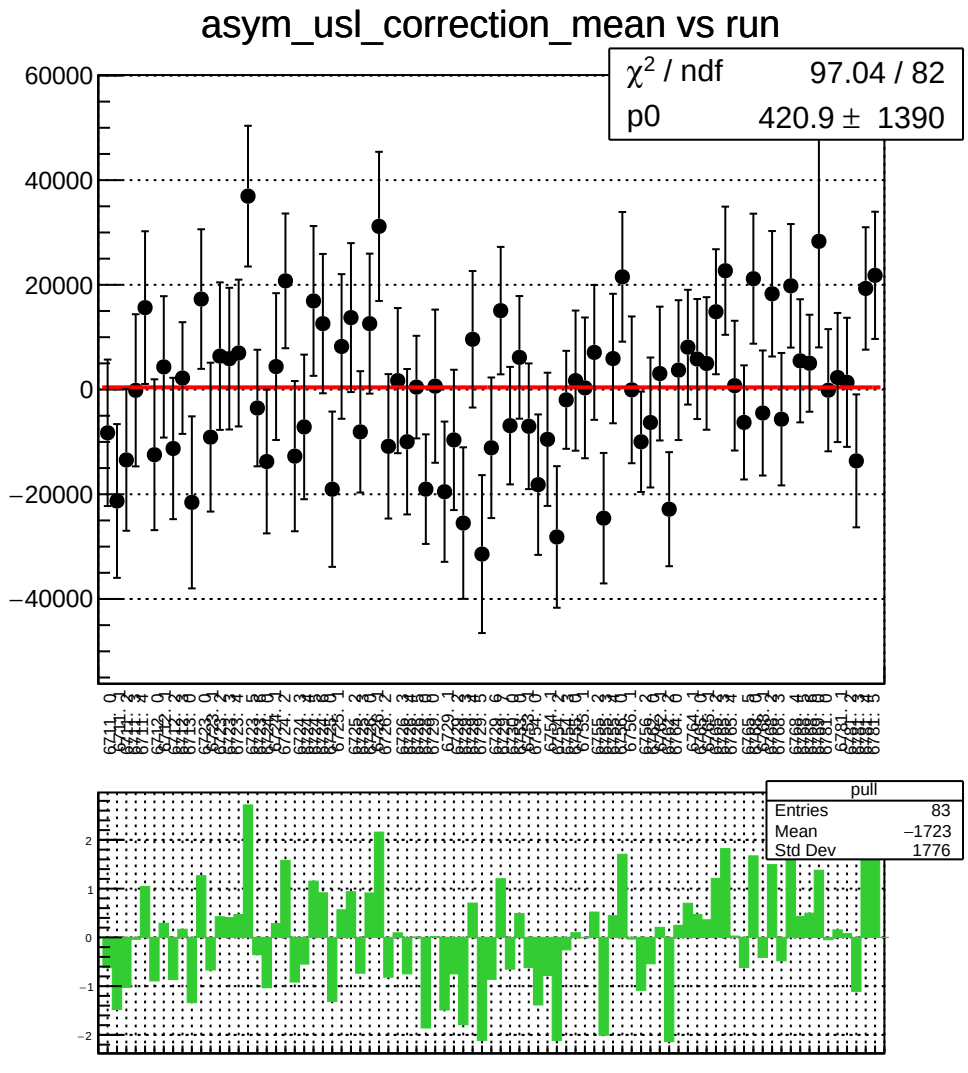

pull1D
Entries 83
Mean 0.01483
Std Dev 1.131

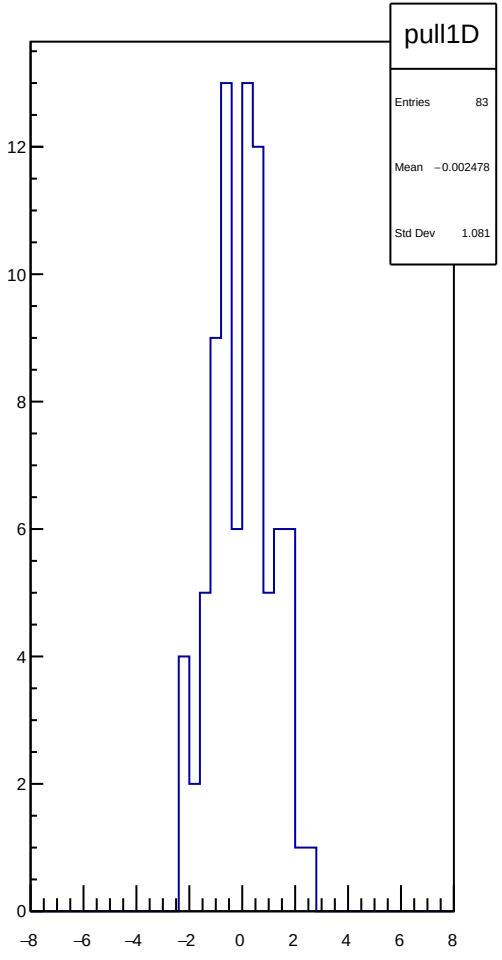

asym_ds_dd_rms vs run
χ² / ndf 186.1 / 82
p0 86.08 ± 0.06735
90
89
88
87
86
85
84
83
82

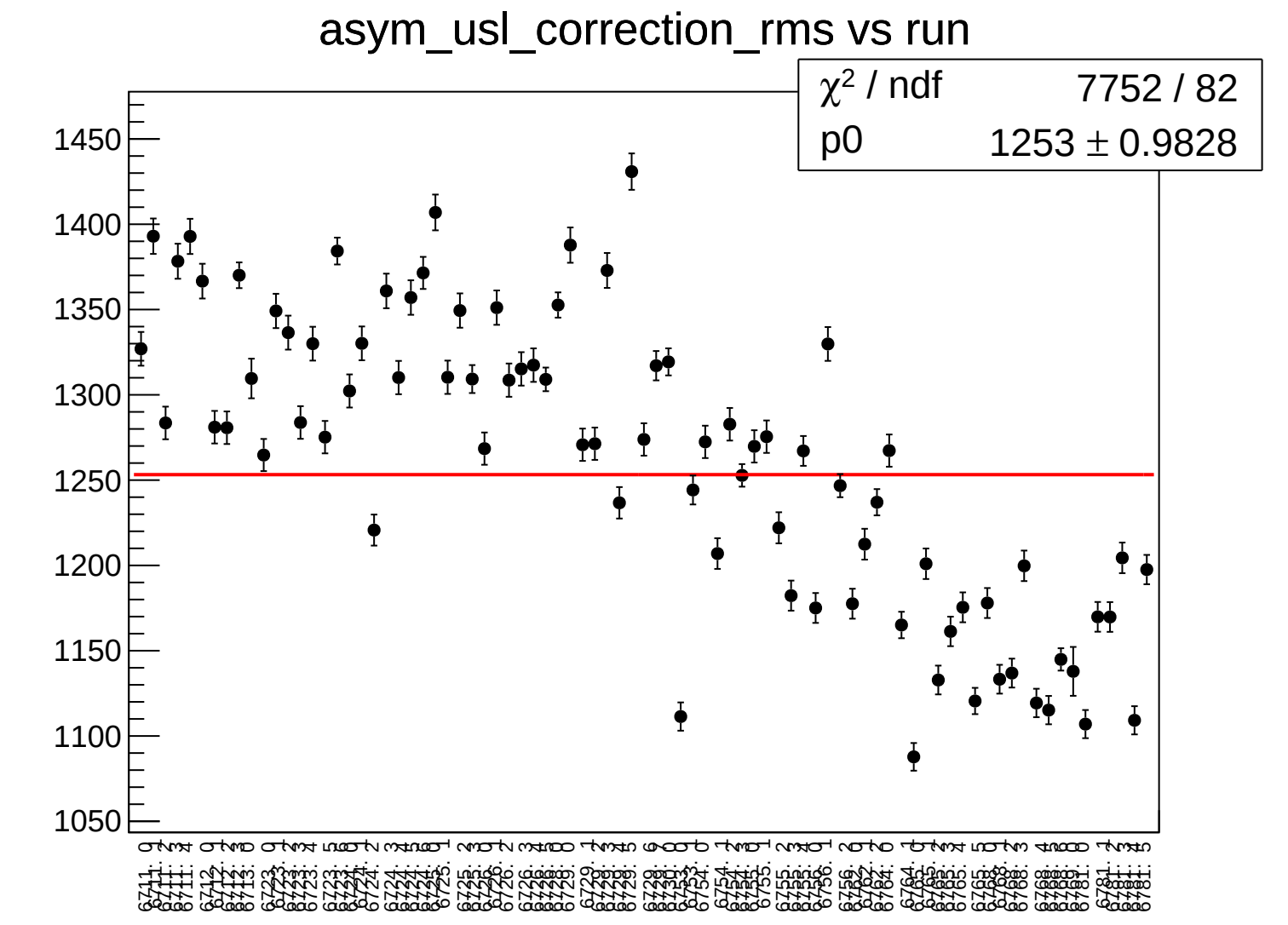

reg_asym_usl_mean vs run
χ² / ndf 76.13 / 82
p0 −1073 ± 1230
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 3523
Std Dev 3480
2
1
0
−1
−2
−3

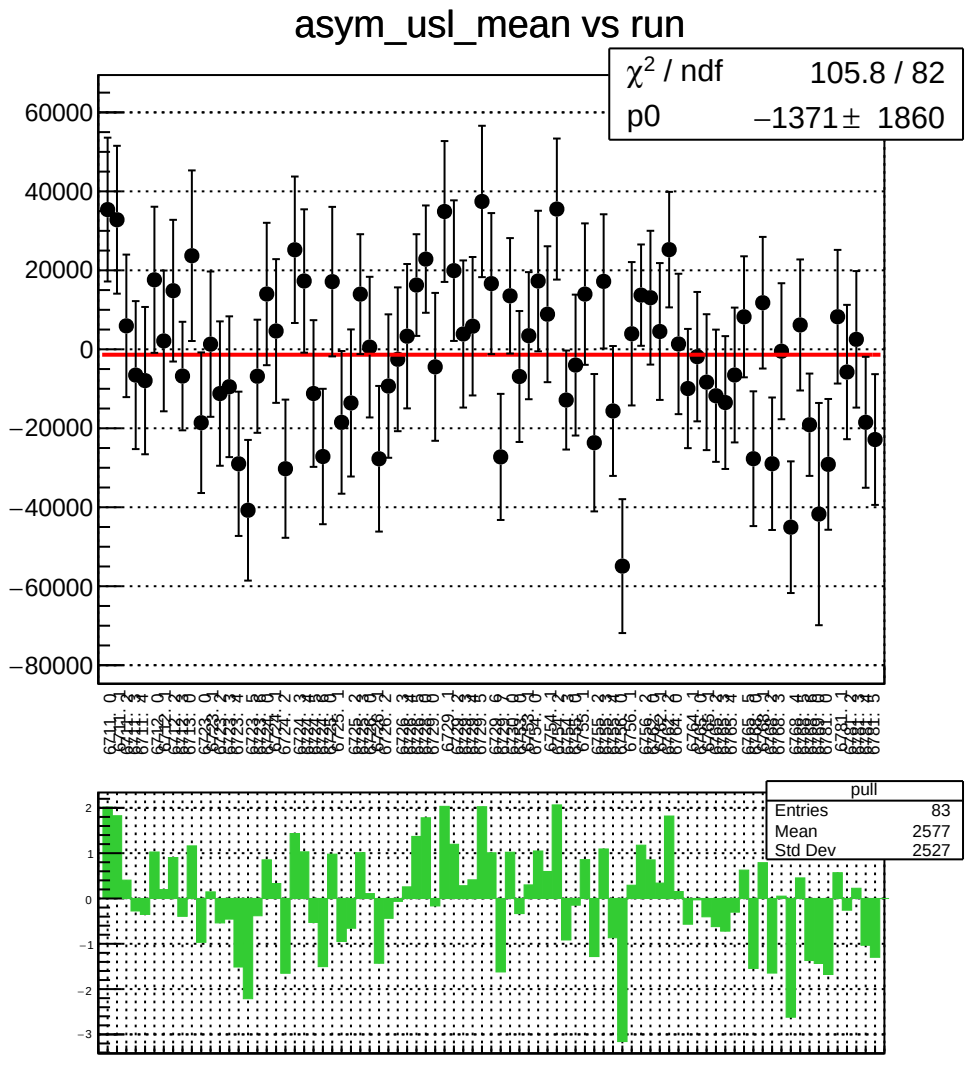

pull1D
Entries 83
Mean −0.001129
Std Dev 0.9577
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

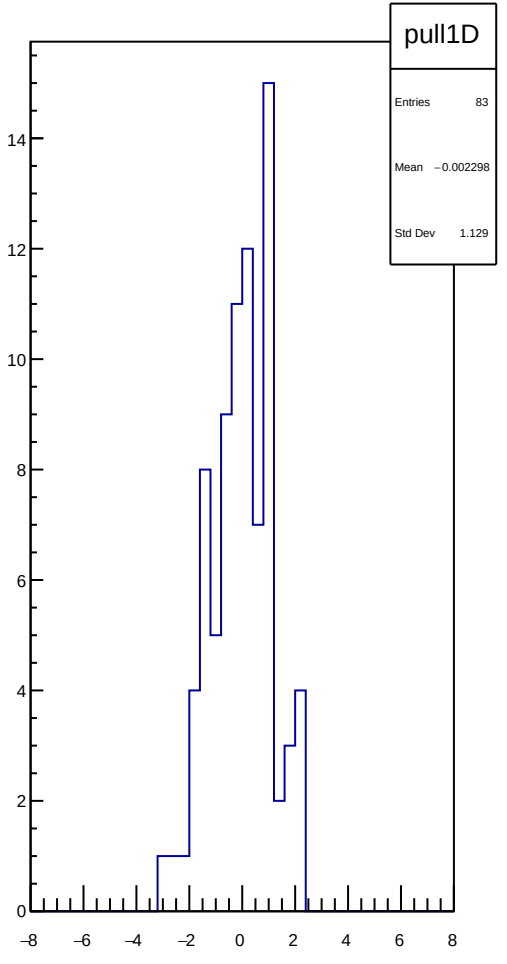

reg_asym_usl_rms vs run
χ^2 / ndf 91.49 / 82
p0 1112 ± 0.87
1150
1140
1130
1120
1110
1100
1090
1080

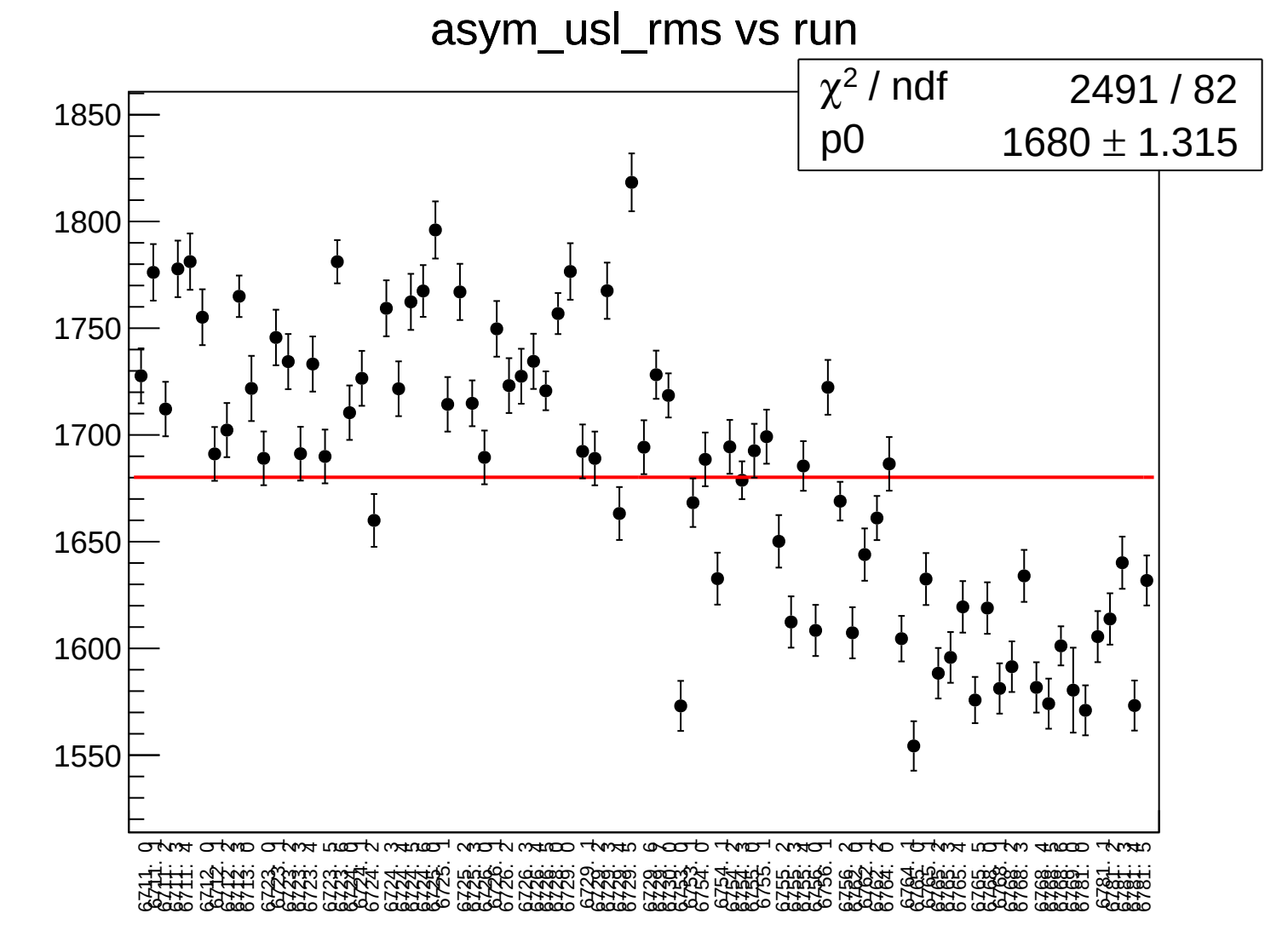

asym_usl_correction_mean vs run
χ² / ndf 97.04 / 82
p0 420.9 ± 1390
pull
Entries 83
Mean −1723
Std Dev 1776

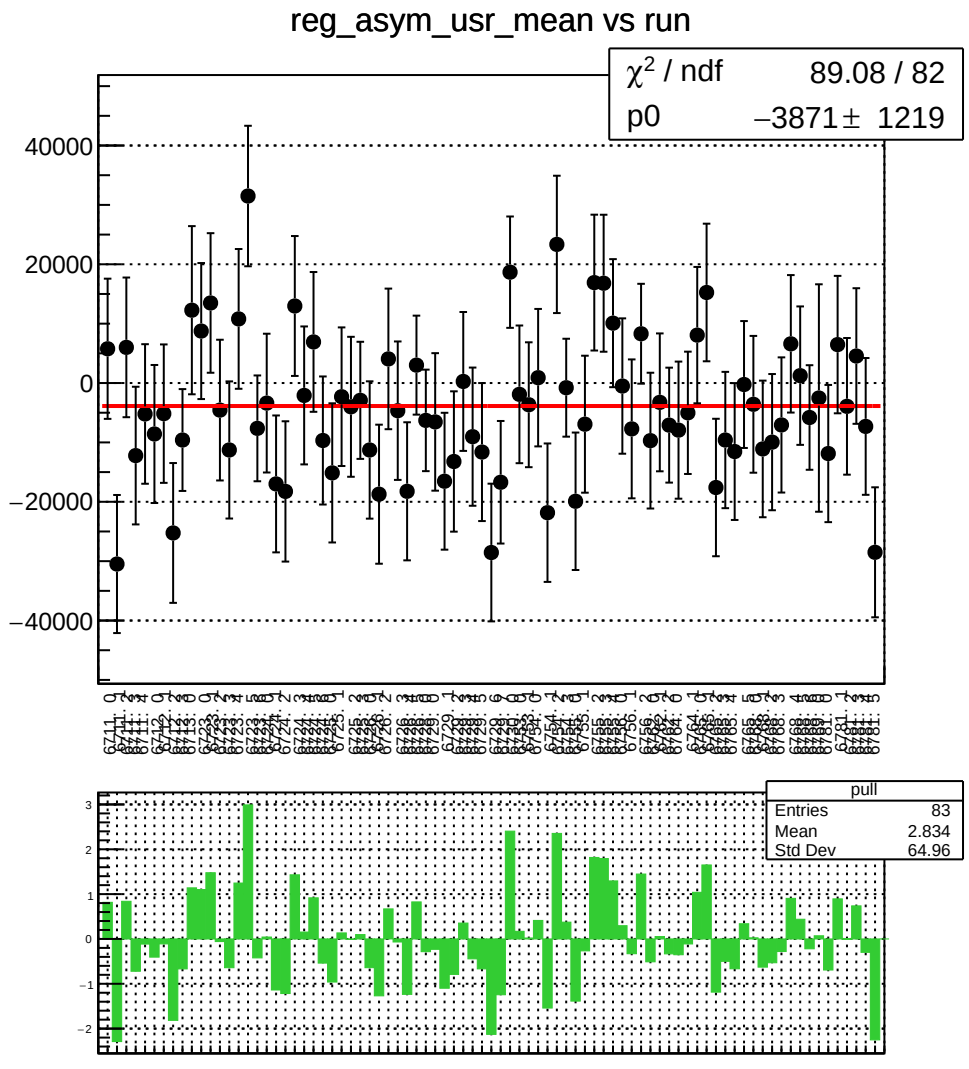

pull1D
Entries 83
Mean −0.002478
Std Dev 1.081

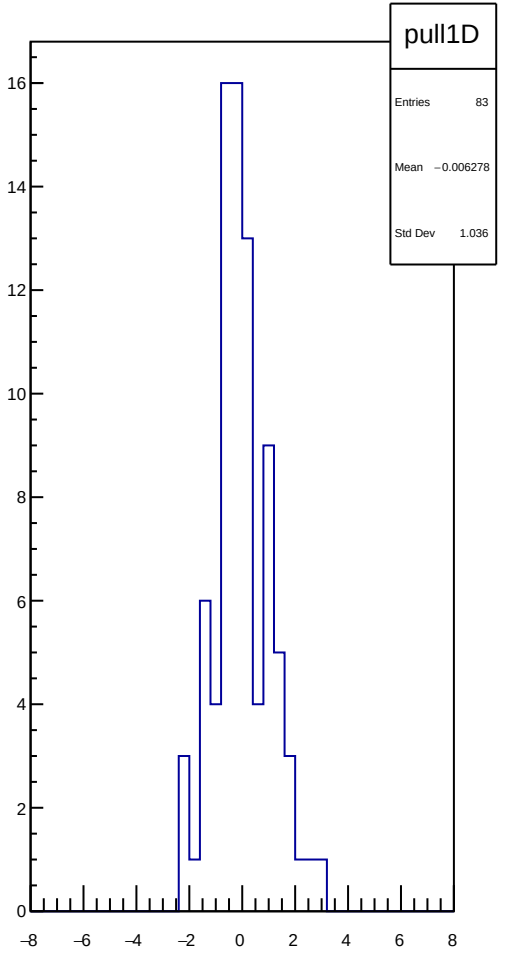

asym_usl_correction_rms vs run
χ² / ndf 7752 / 82
p0 1253 ± 0.9828
1450
1400
1350
1300
1250
1200
1150
1100
1050

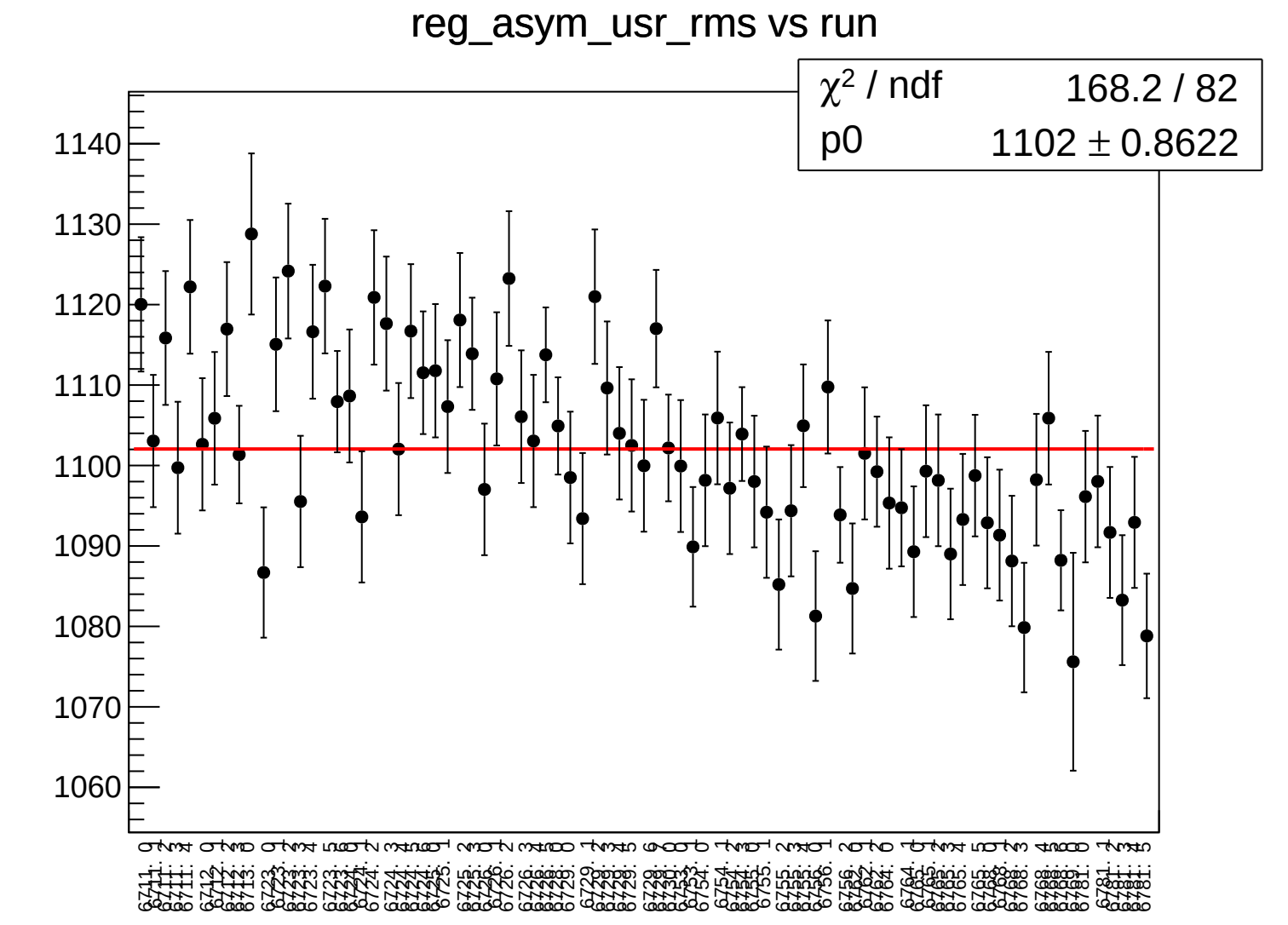

asym_usl_mean vs run
χ² / ndf 105.8 / 82
p0 −1371 ± 1860
pull
Entries 83
Mean 2577
Std Dev 2527

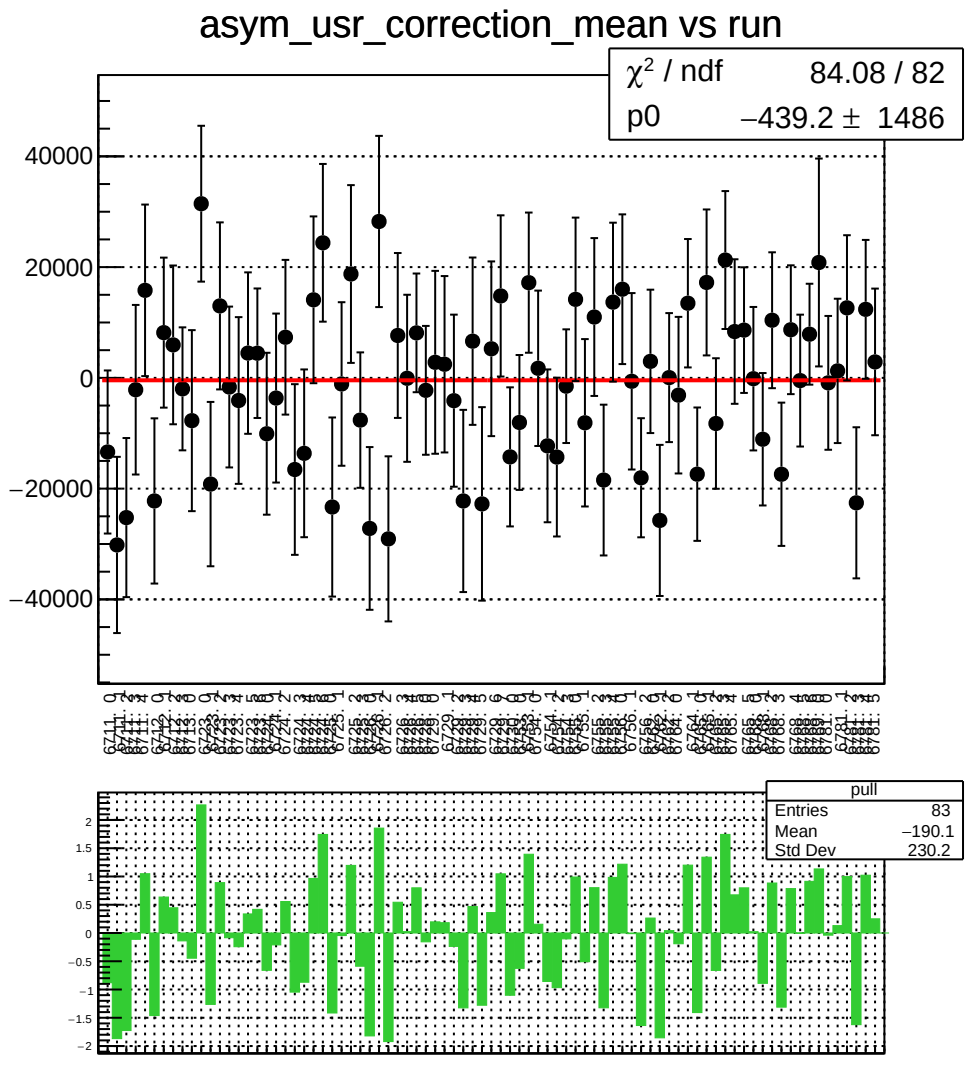

pull1D
Entries 83
Mean −0.002298
Std Dev 1.129

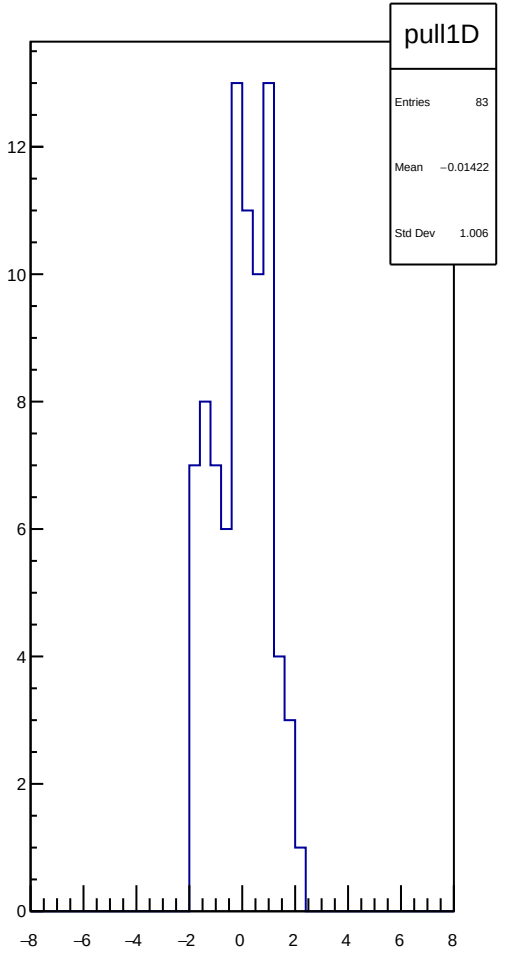

asym_usl_rms vs run
χ² / ndf 2491 / 82
p0 1680 ± 1.315
1850
1800
1750
1700
1650
1600
1550

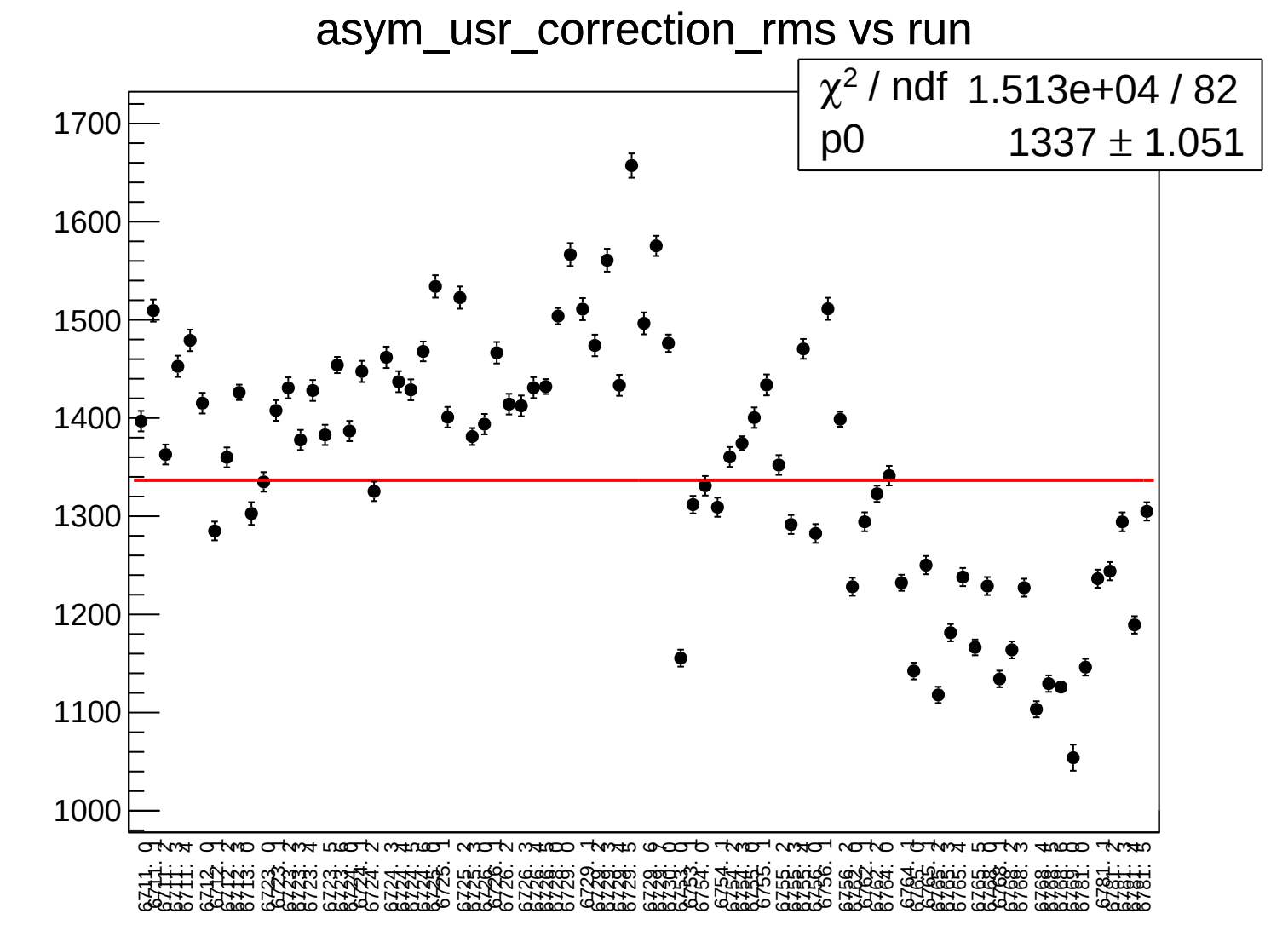

reg_asym_usr_mean vs run
χ² / ndf 89.08 / 82
p0 −3871 ± 1219
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 2.834
Std Dev 64.96
3
2
1
0
−1
−2

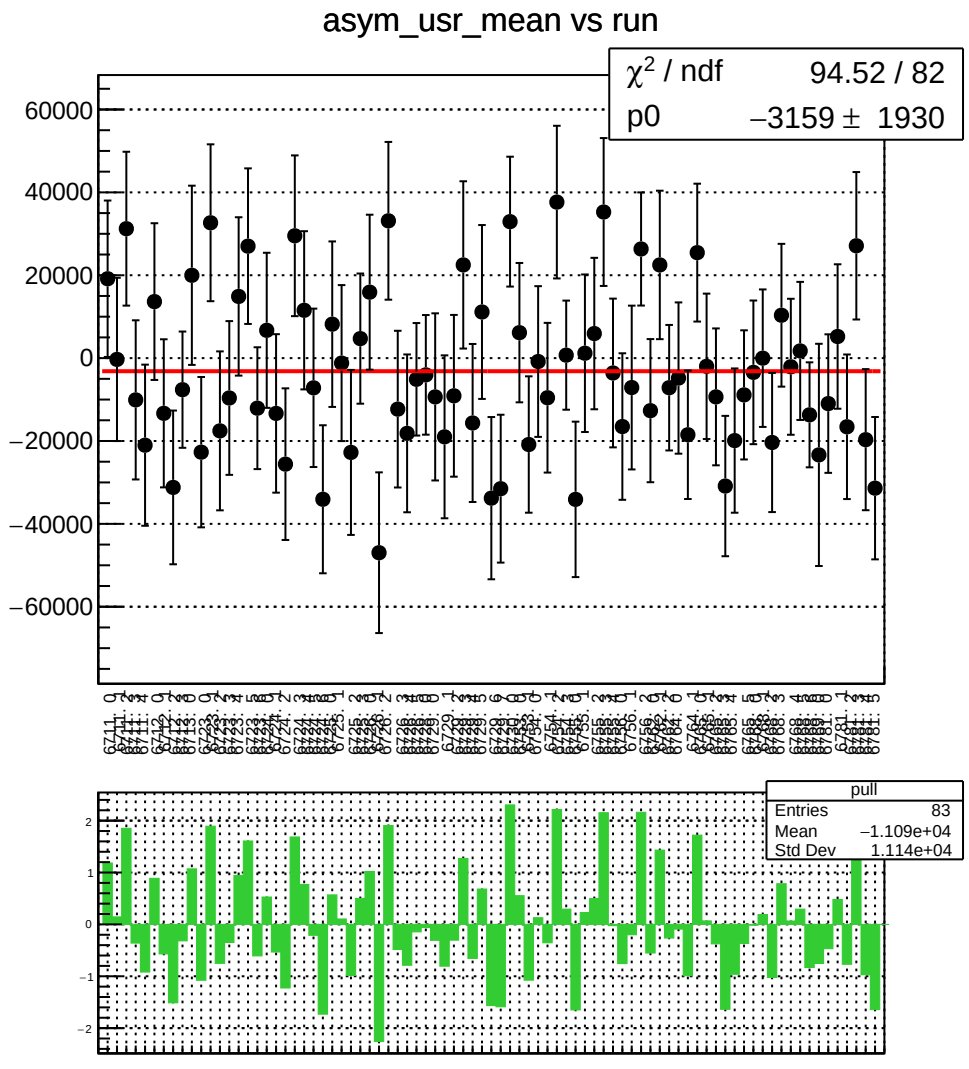

pull1D
Entries 83
Mean −0.006278
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

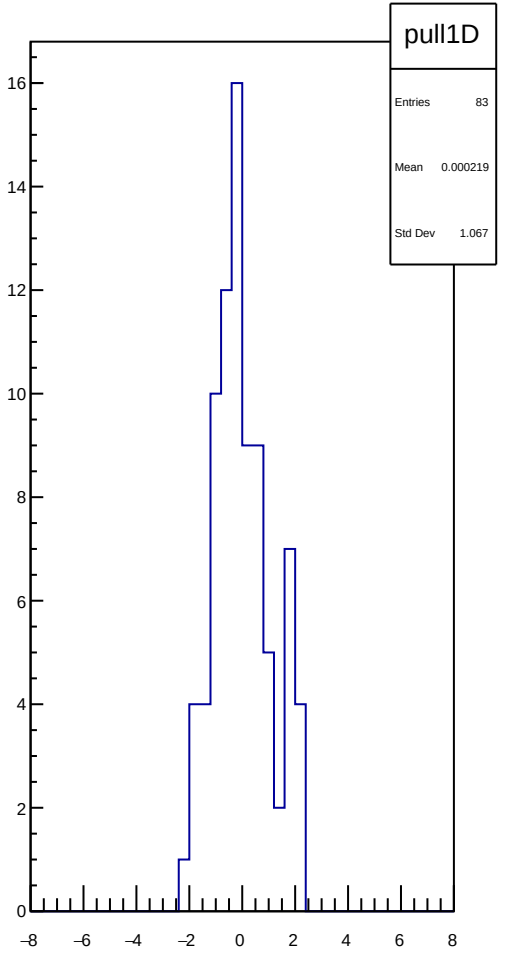

reg_asym_usr_rms vs run
χ² / ndf 168.2 / 82
p0 1102 ± 0.8622
1140
1130
1120
1110
1100
1090
1080
1070
1060

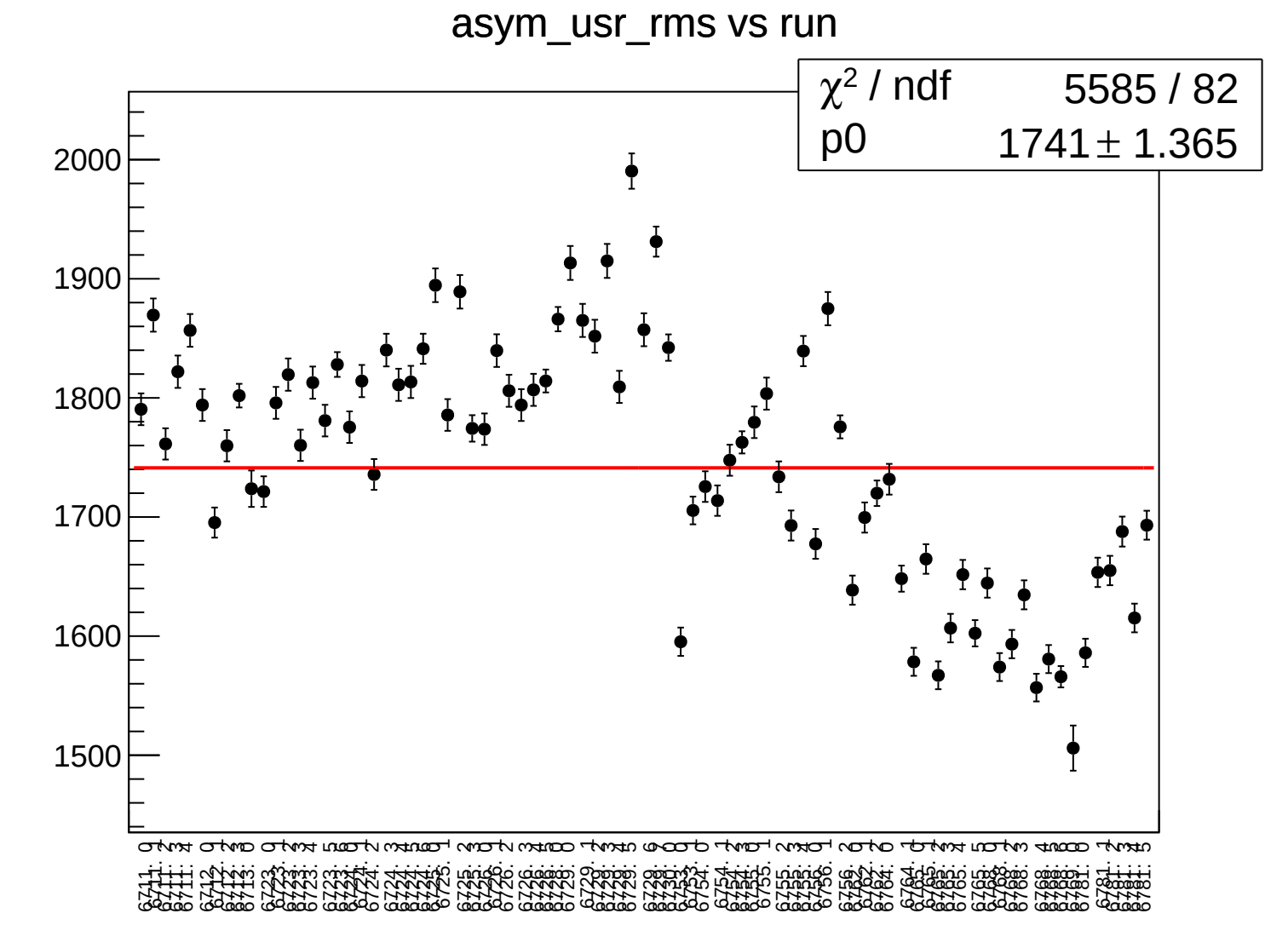

asym_usr_correction_mean vs run
χ² / ndf 84.08 / 82
p0 −439.2 ± 1486
40000
20000
0
−20000
−40000
pull
Entries 83
Mean −190.1
Std Dev 230.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

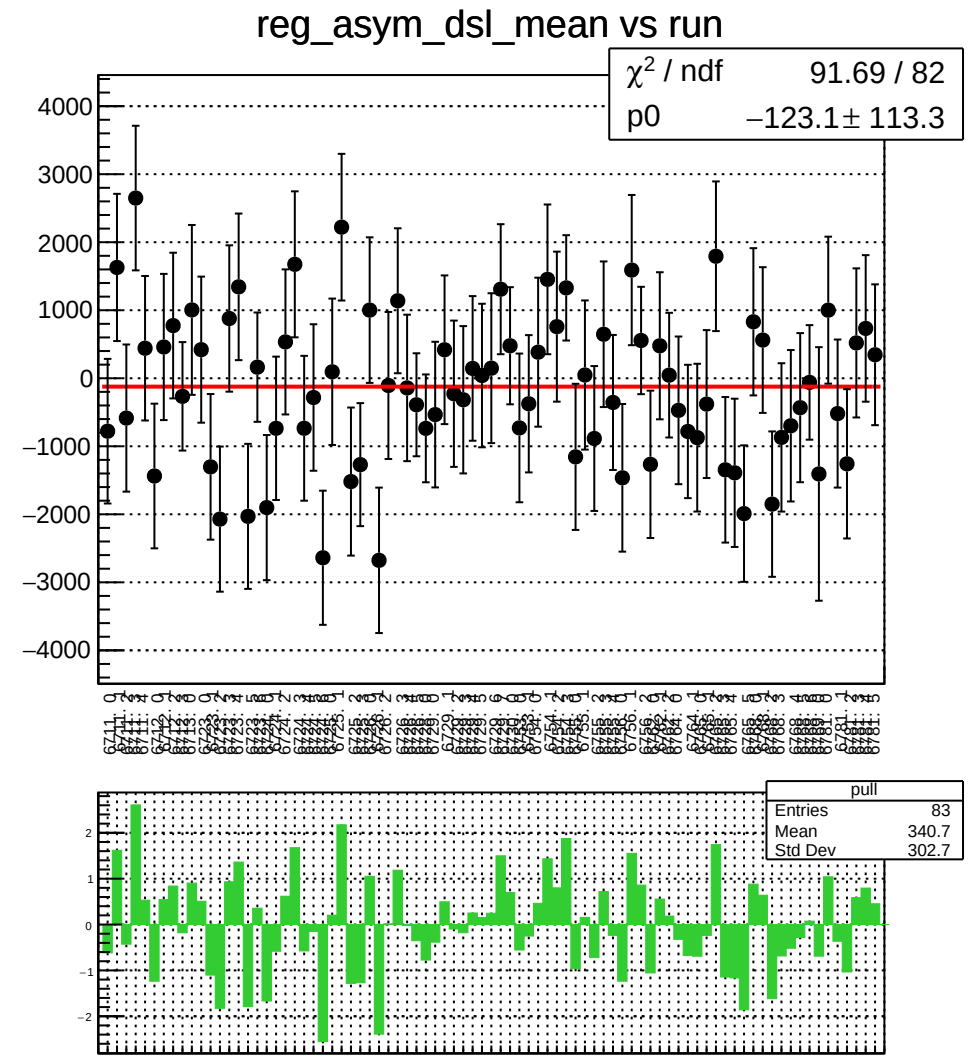

pull1D
Entries 83
Mean −0.01422
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

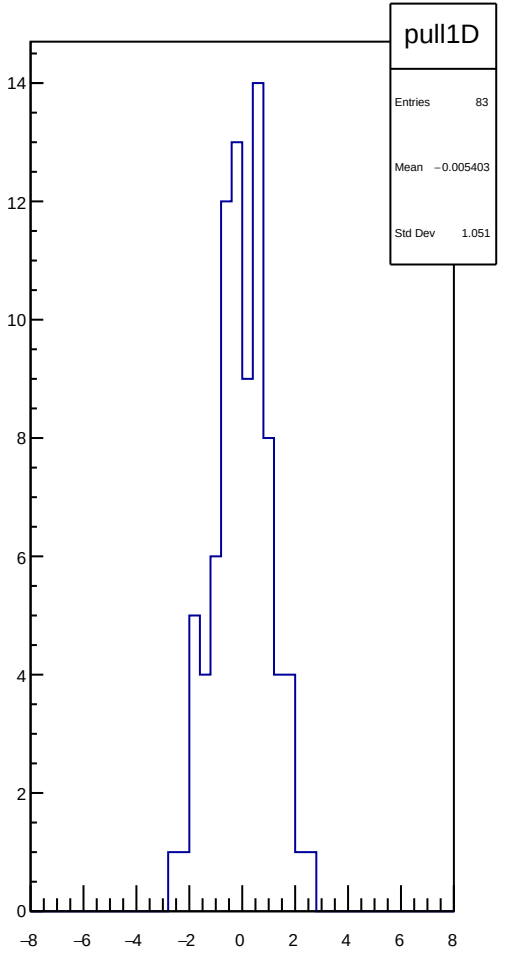

asym_usr_correction_rms vs run
χ² / ndf 1.513e+04 / 82
p0 1337 ± 1.051
1700
1600
1500
1400
1300
1200
1100
1000

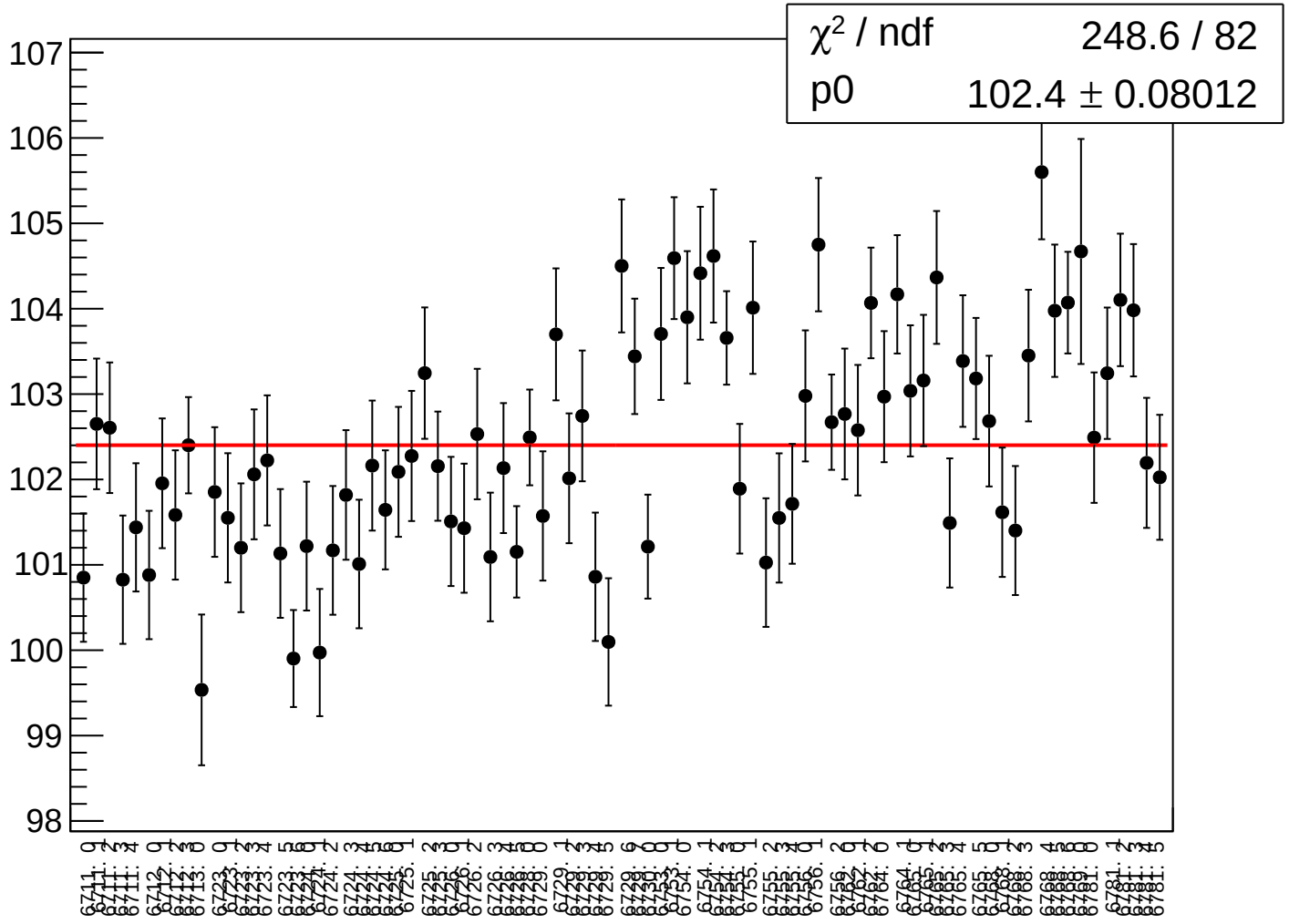

asym_usr_mean vs run
χ² / ndf 94.52 / 82
p0 −3159 ± 1930
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean −1.109e+04
Std Dev 1.114e+04
2
1
0
−1
−2

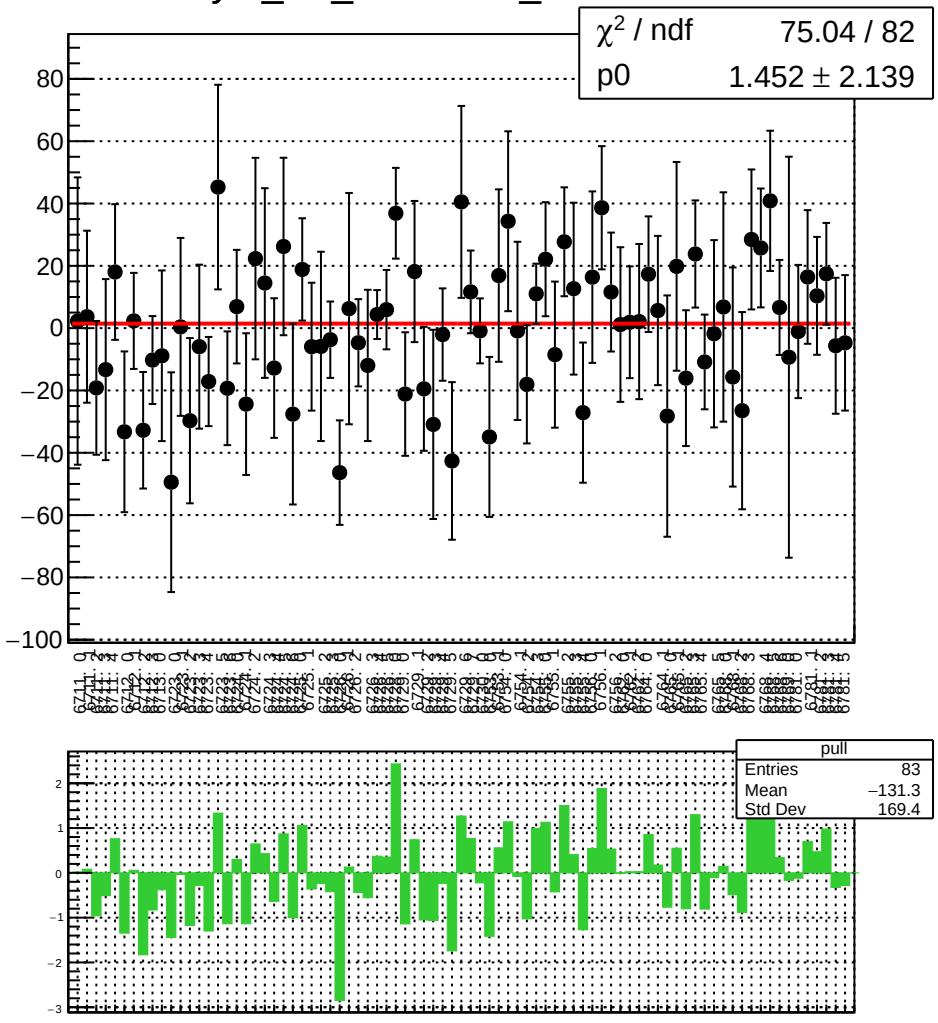

pull1D
Entries 83
Mean 0.000219
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

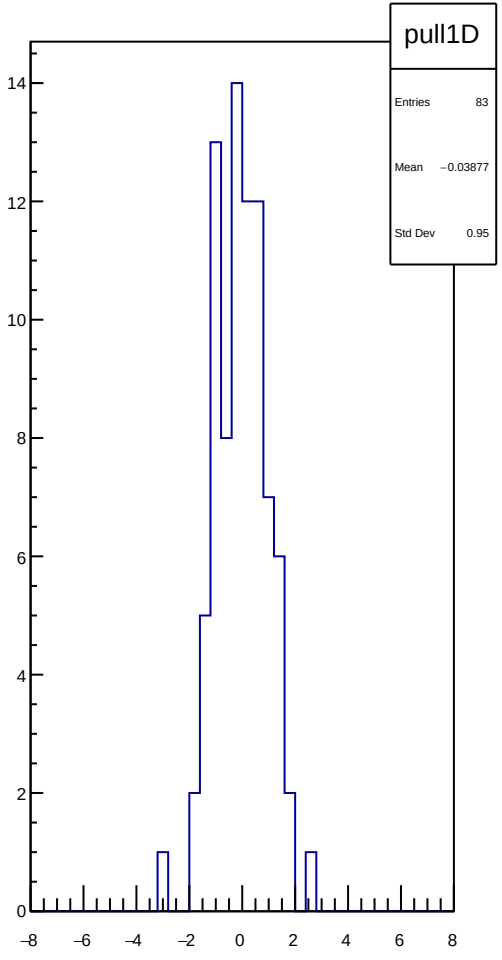

asym_usr_rms vs run
χ² / ndf 5585 / 82
p0 1741 ± 1.365
2000
1900
1800
1700
1600
1500

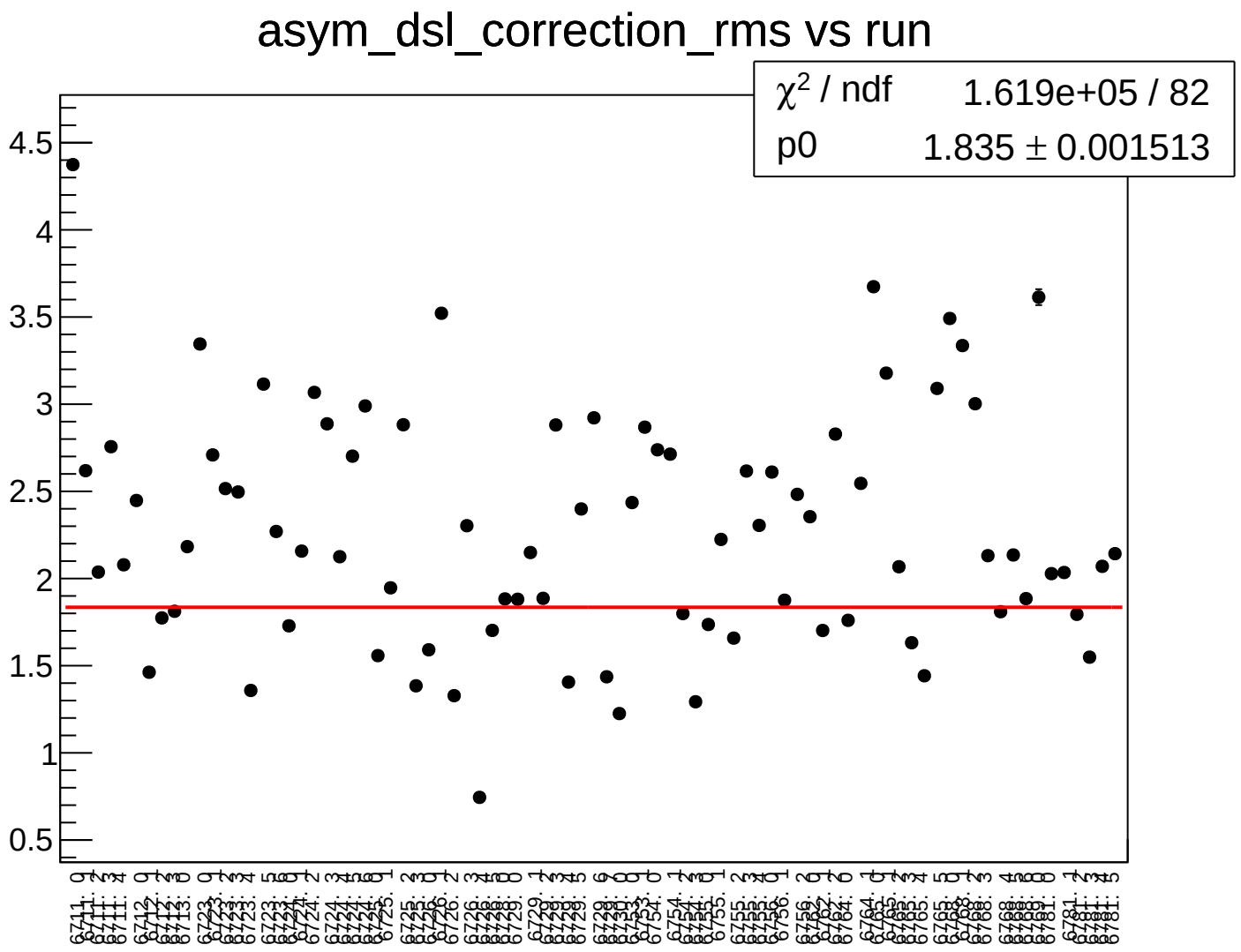

reg_asym_dsl_mean vs run
χ² / ndf 91.69 / 82
p0 −123.1± 113.3
pull
Entries 83
Mean 340.7
Std Dev 302.7

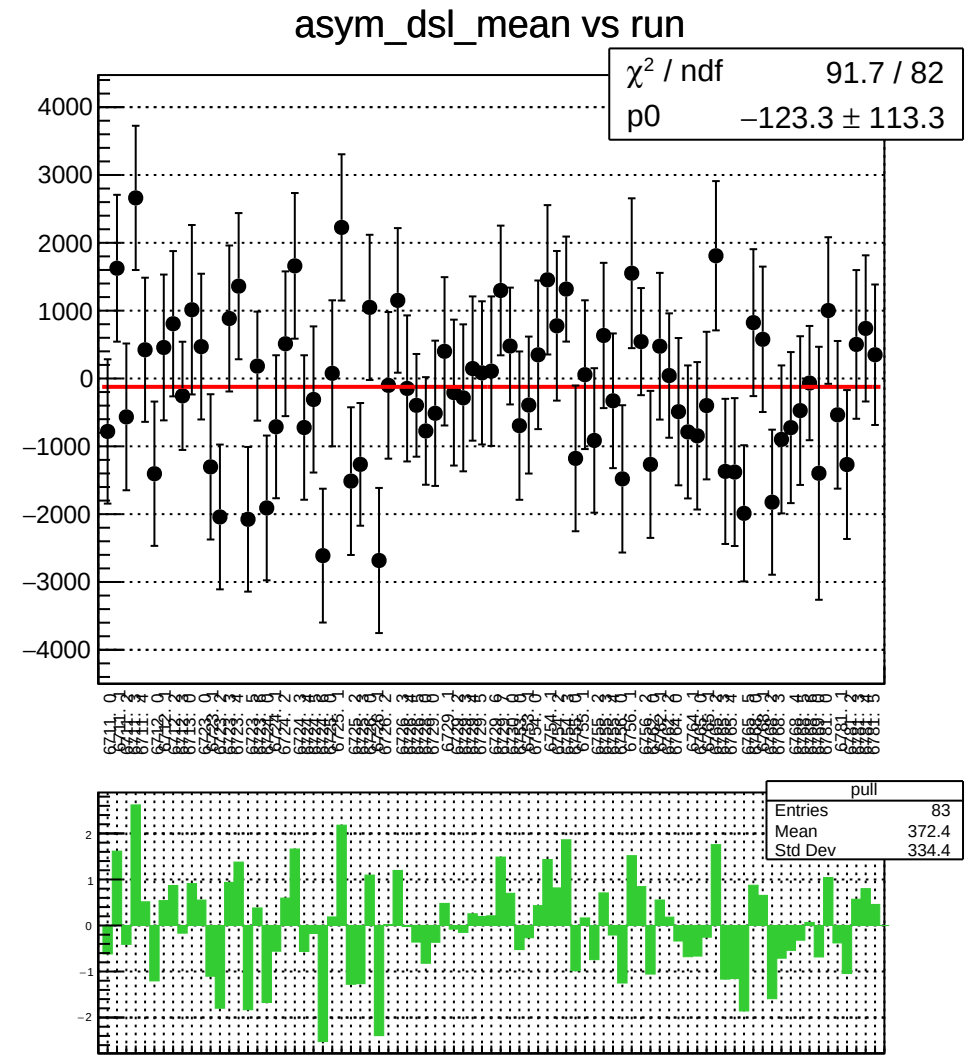

pull1D
Entries 83
Mean −0.005403
Std Dev 1.051

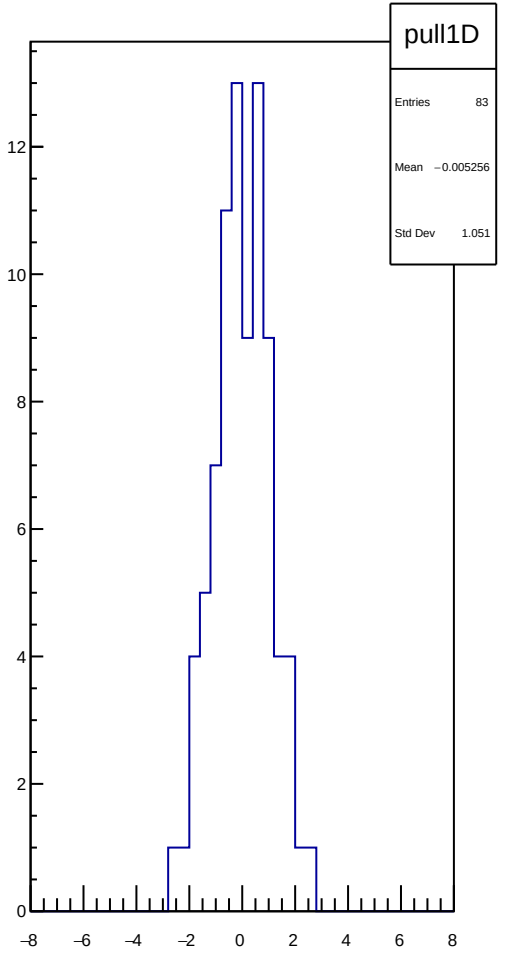

reg_asym_dsl_rms vs run
χ² / ndf 248.6 / 82
p0 102.4 ± 0.08012
107
106
105
104
103
102
101
100
99
98

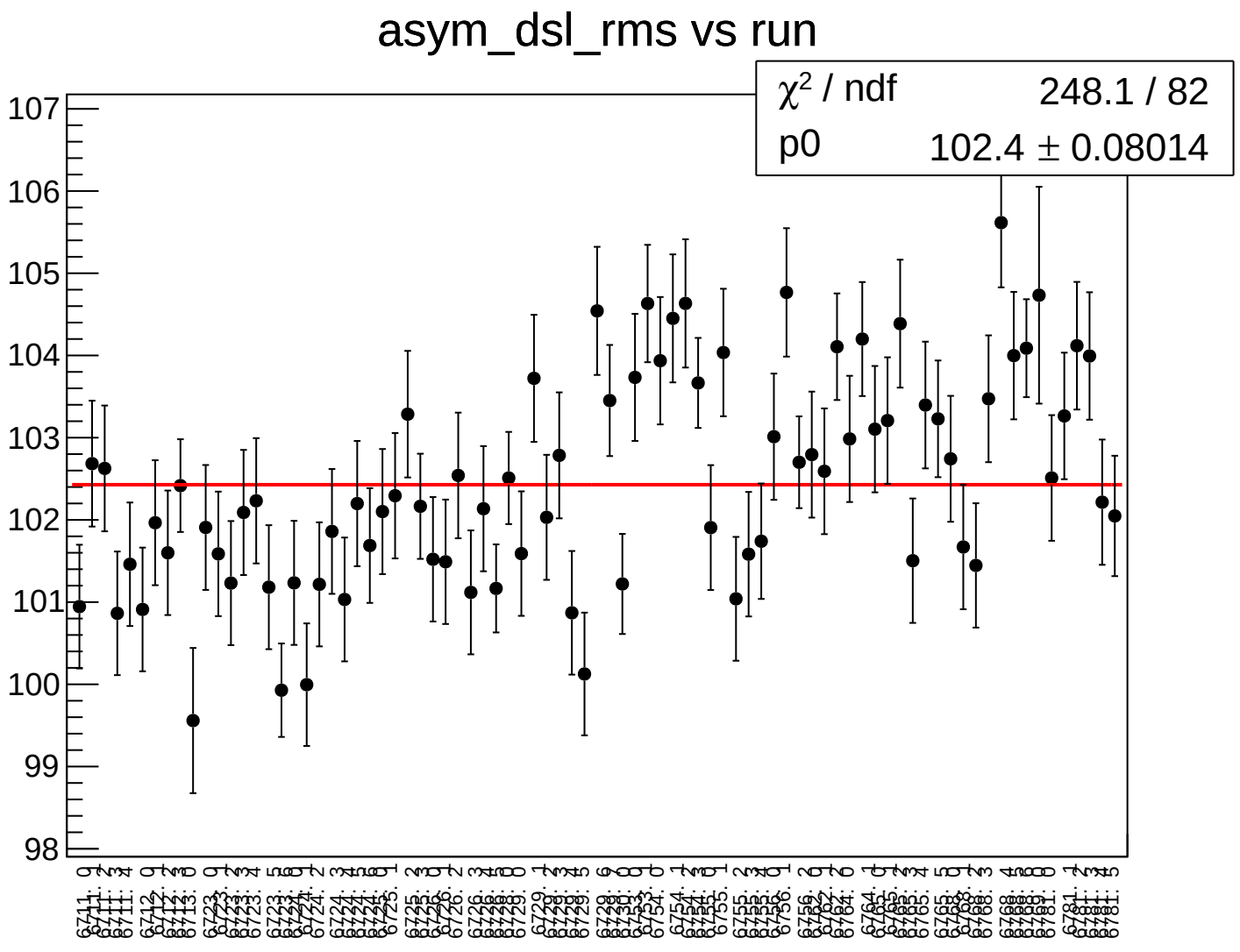

asym_dsl_correction_mean vs run
χ² / ndf 75.04 / 82
p0 1.452 ± 2.139
pull
Entries 83
Mean −131.3
Std Dev 169.4

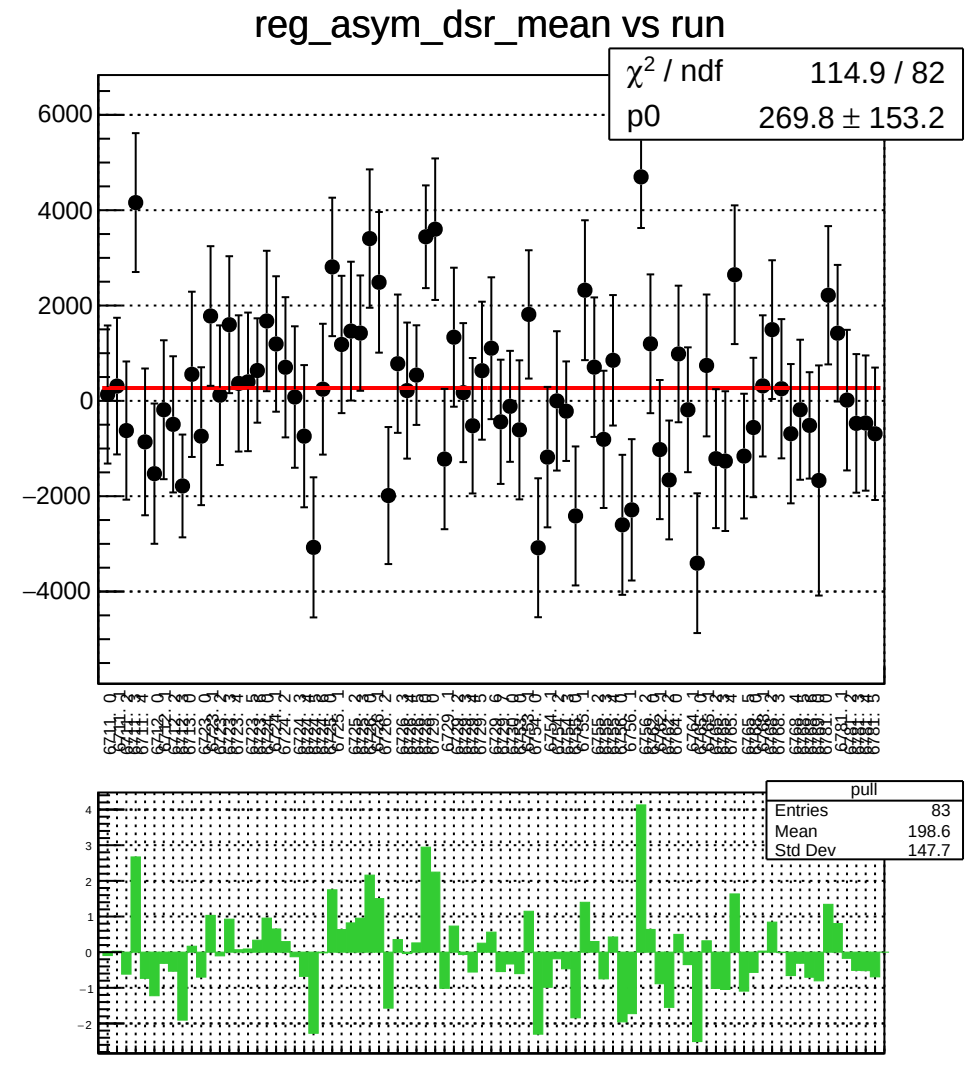

pull1D
Entries 83
Mean −0.03877
Std Dev 0.95

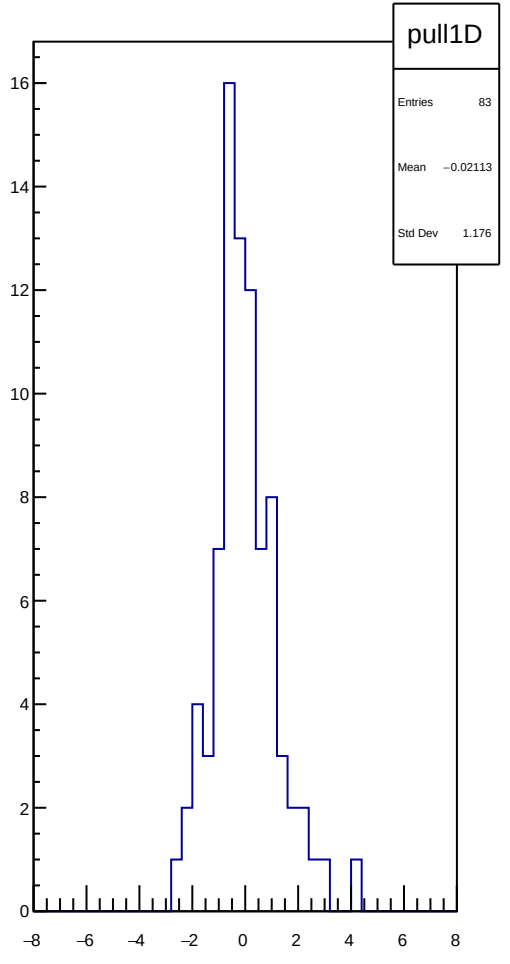

asym_dsl_correction_rms vs run
χ^2 / ndf 1.619e+05 / 82
p0 1.835 ± 0.001513
4.5
4
3.5
3
2.5
2
1.5
1
0.5

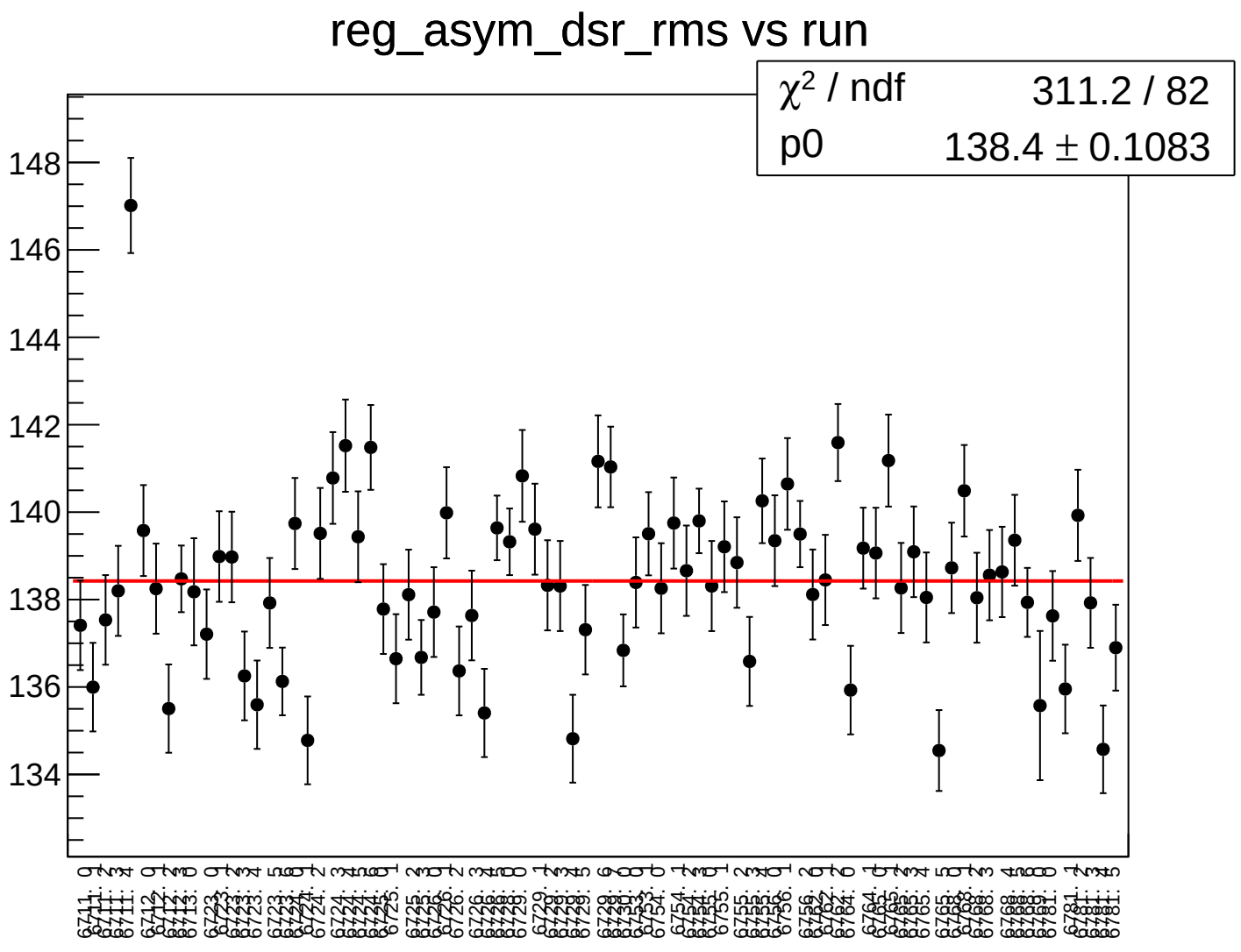

asym_dsl_mean vs run
χ² / ndf 91.7 / 82
p0 −123.3 ± 113.3
pull
Entries 83
Mean 372.4
Std Dev 334.4

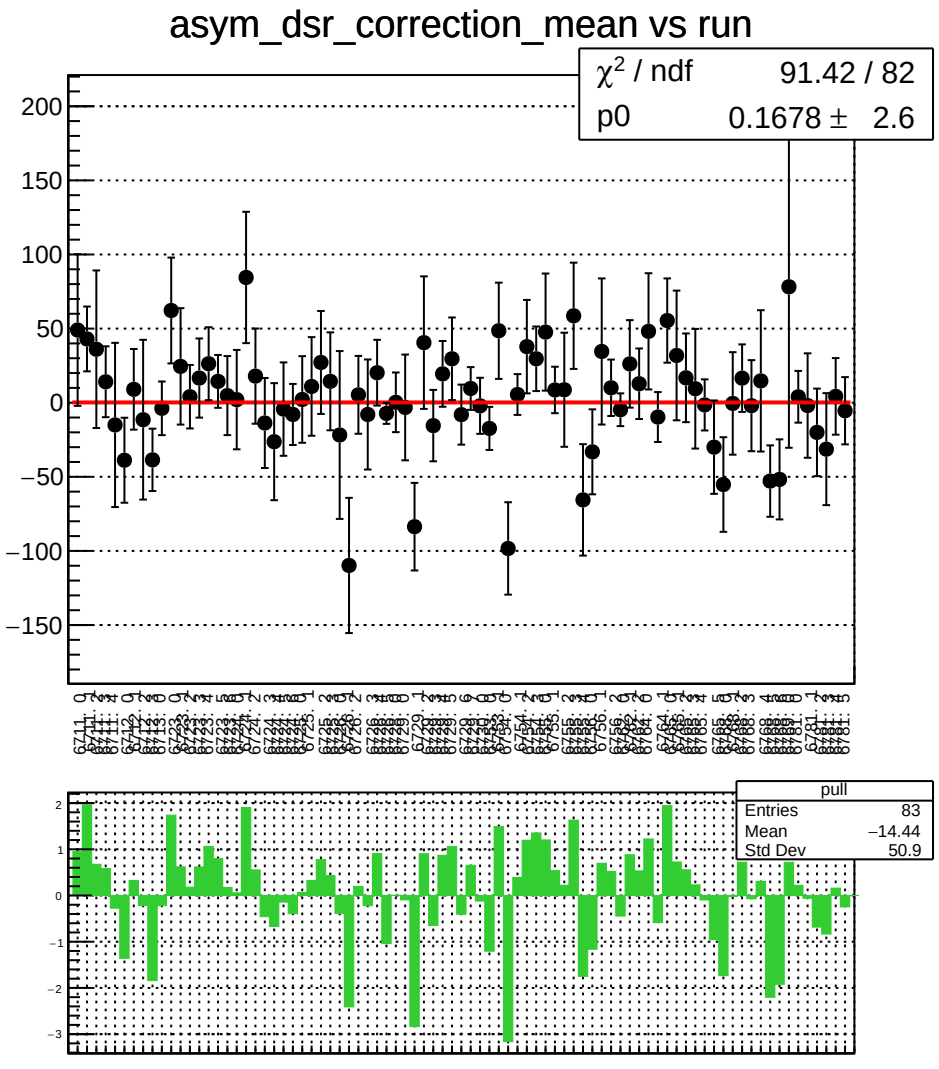

pull1D
Entries 83
Mean −0.005256
Std Dev 1.051

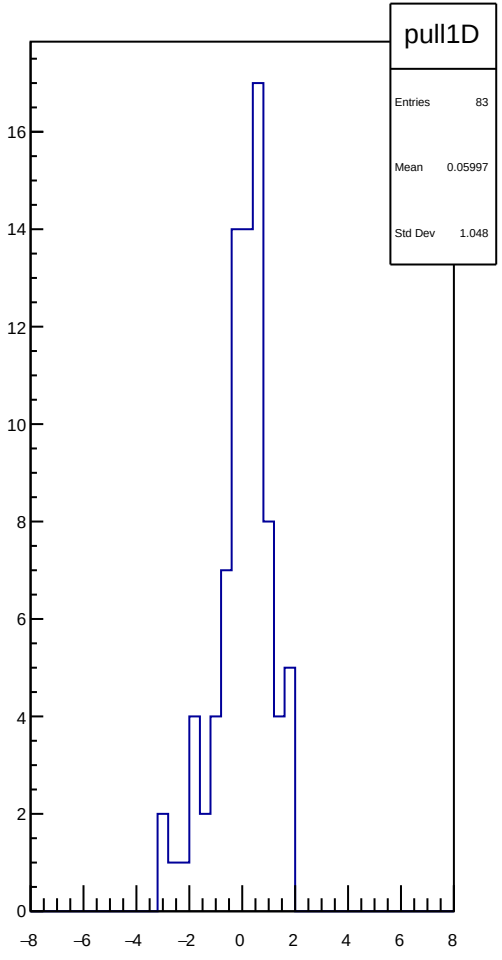

asym_dsl_rms vs run
χ² / ndf 248.1 / 82
p0 102.4 ± 0.08014
107
106
105
104
103
102
101
100
99
98


reg_asym_dsr_mean vs run
χ^2 / ndf 114.9 / 82
p0 269.8 ± 153.2
6000
4000
2000
0
−2000
−4000
pull
Entries 83
Mean 198.6
Std Dev 147.7
4
3
2
1
0
−1
−2

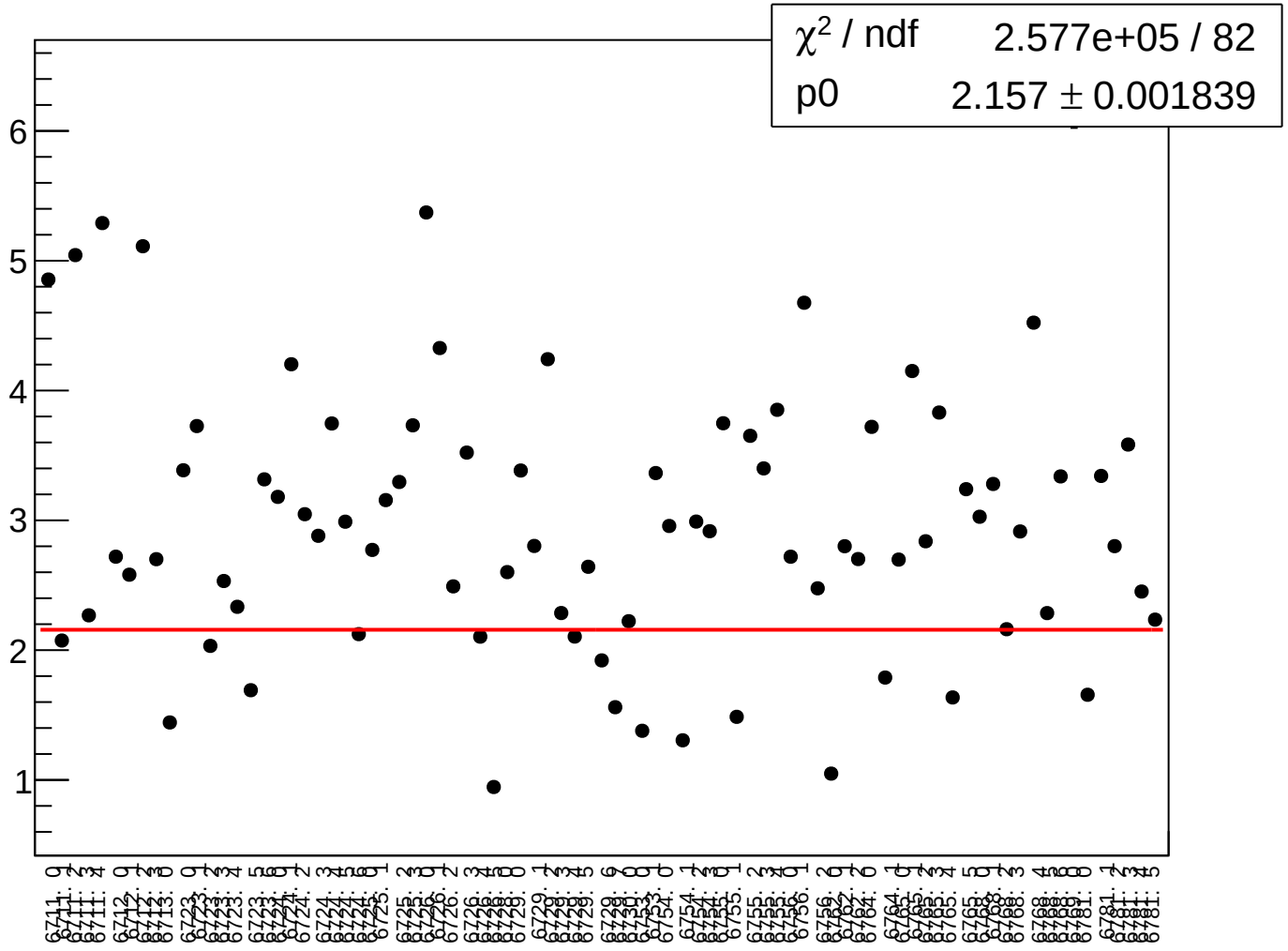

pull1D
Entries 83
Mean −0.02113
Std Dev 1.176
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

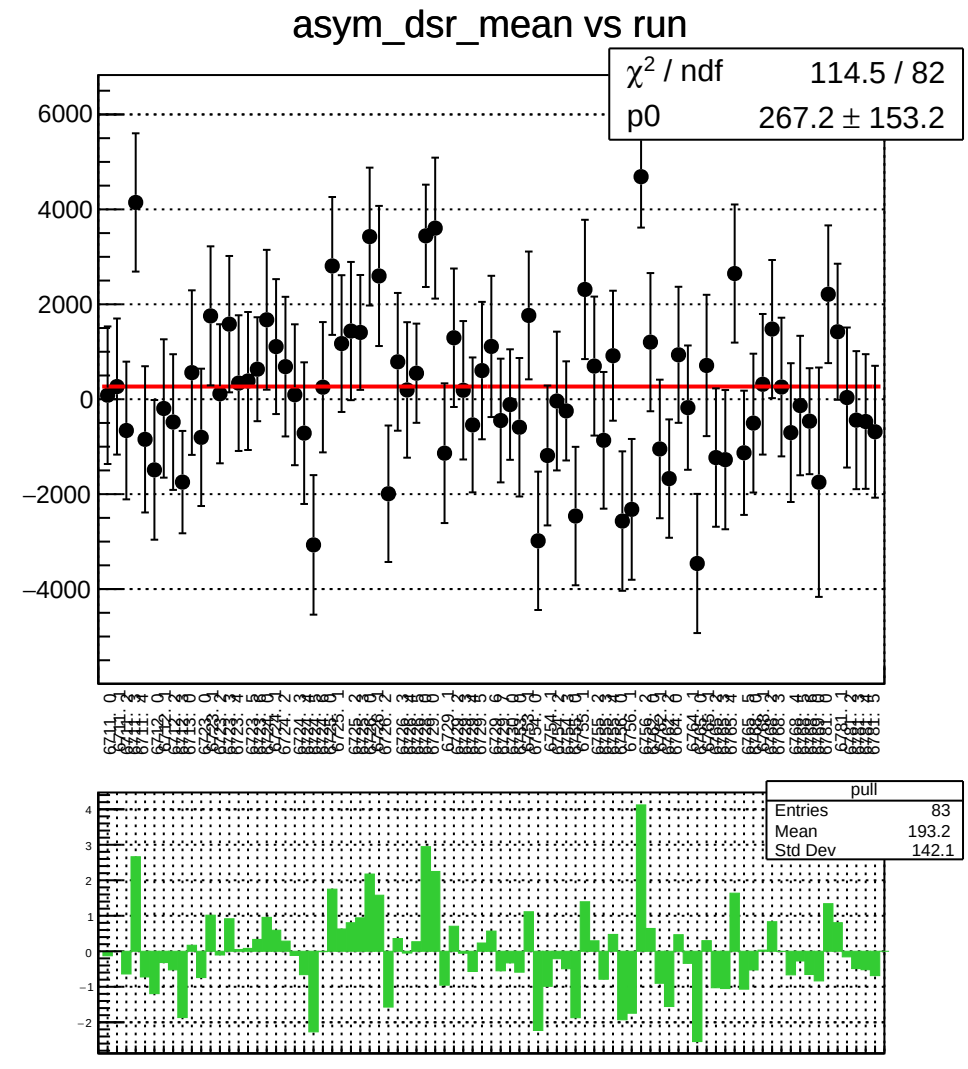

reg_asym_dsr_rms vs run
χ² / ndf 311.2 / 82
p0 138.4 ± 0.1083
148
146
144
142
140
138
136
134

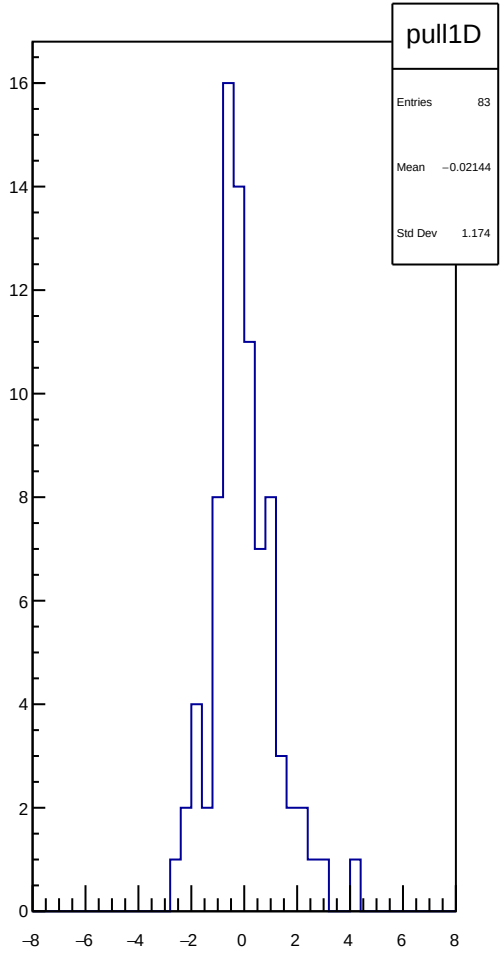

asym_dsr_correction_mean vs run
χ² / ndf 91.42 / 82
p0 0.1678 ± 2.6
pull
Entries 83
Mean −14.44
Std Dev 50.9

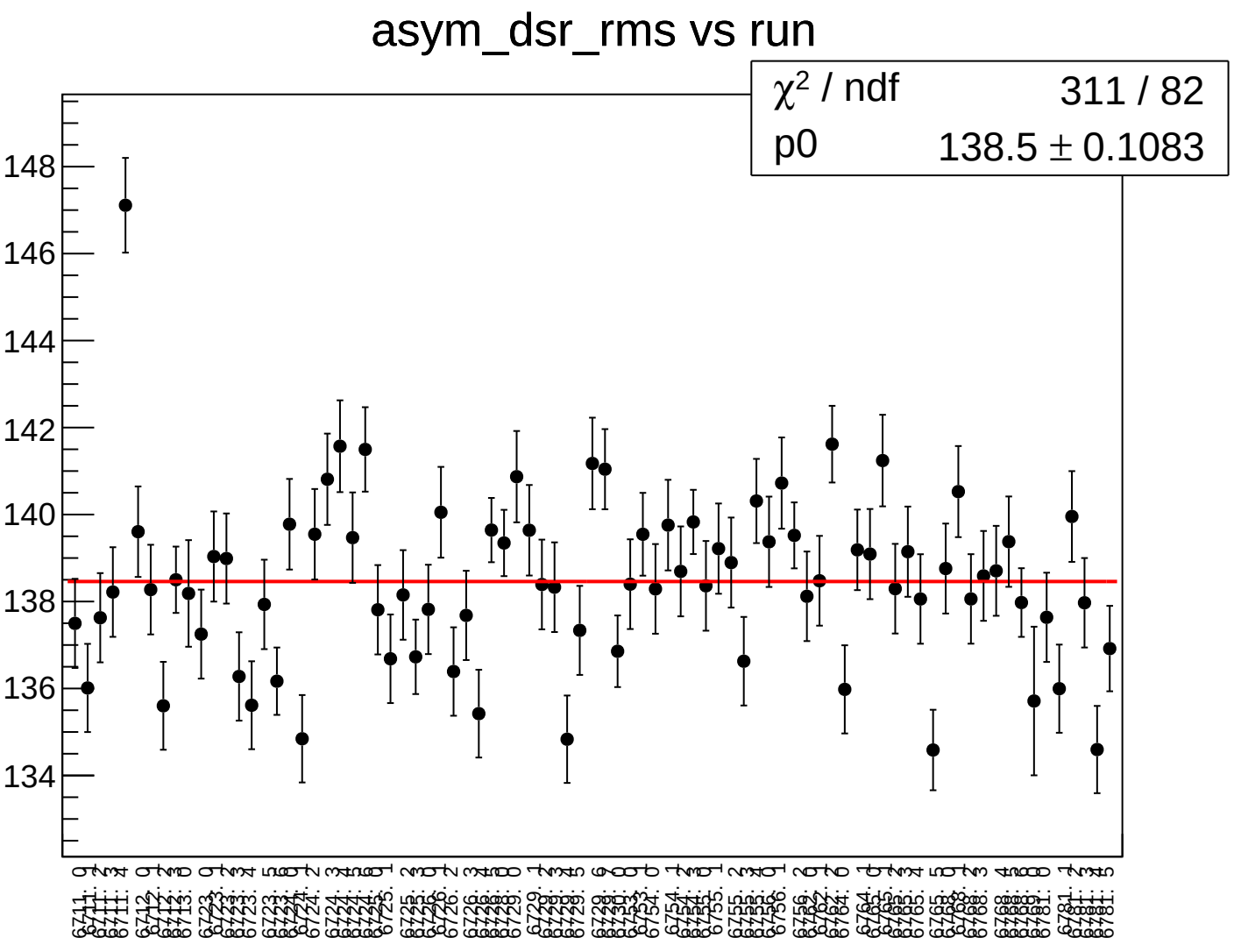

pull1D
Entries 83
Mean 0.05997
Std Dev 1.048

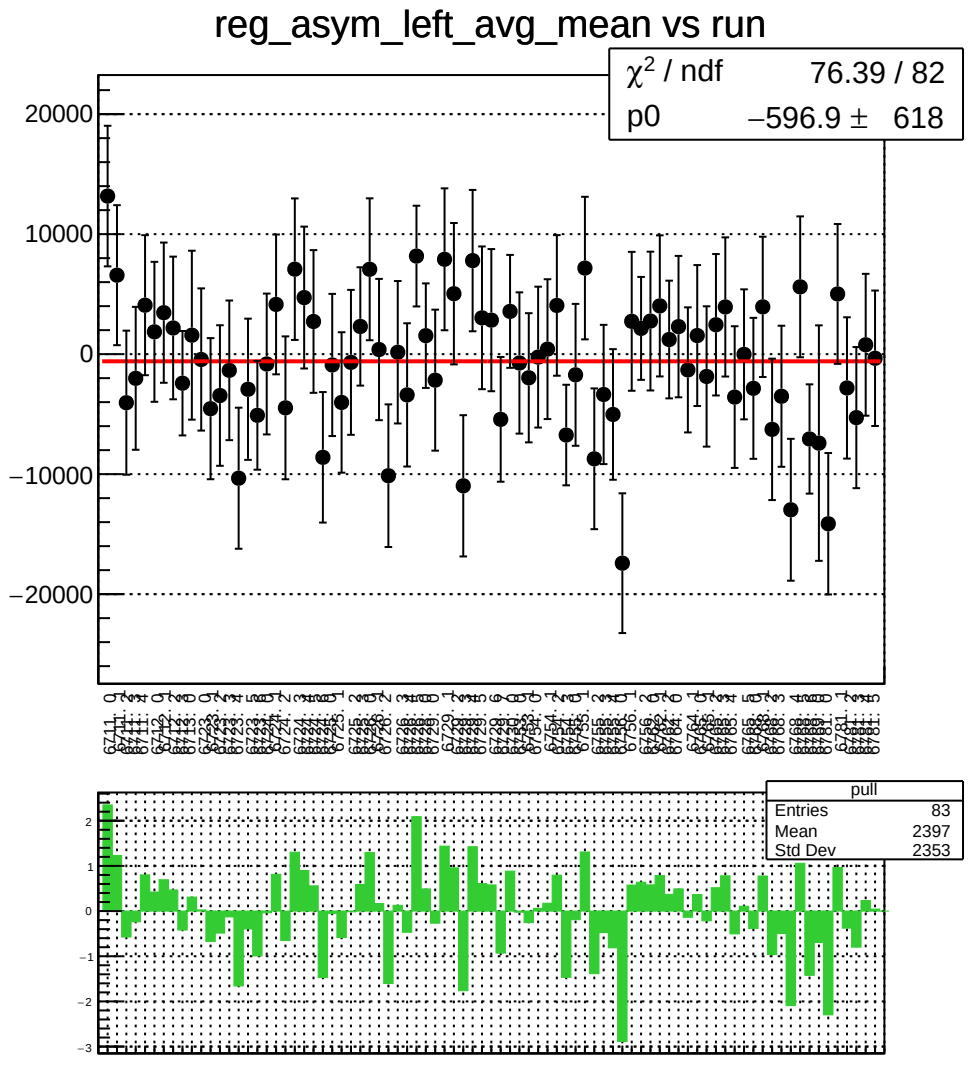
asym_dsr_correction_rms vs run

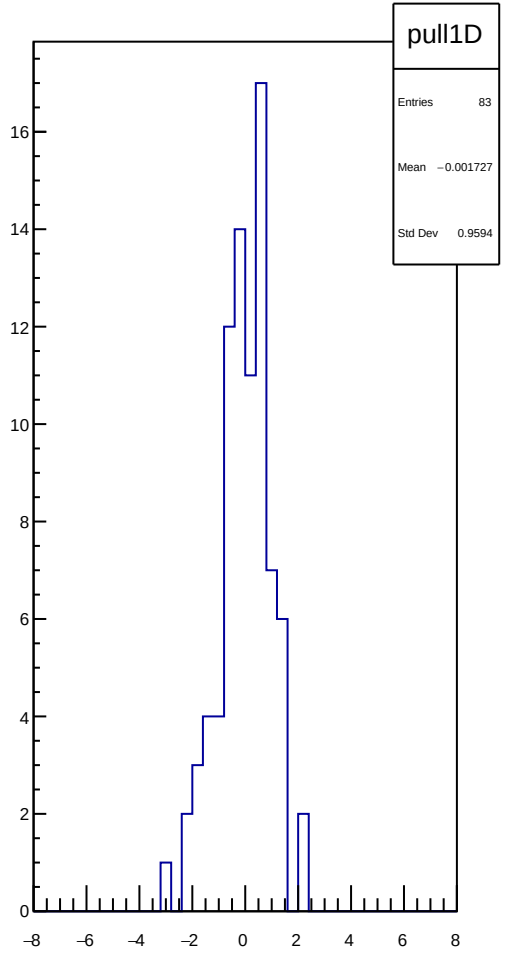


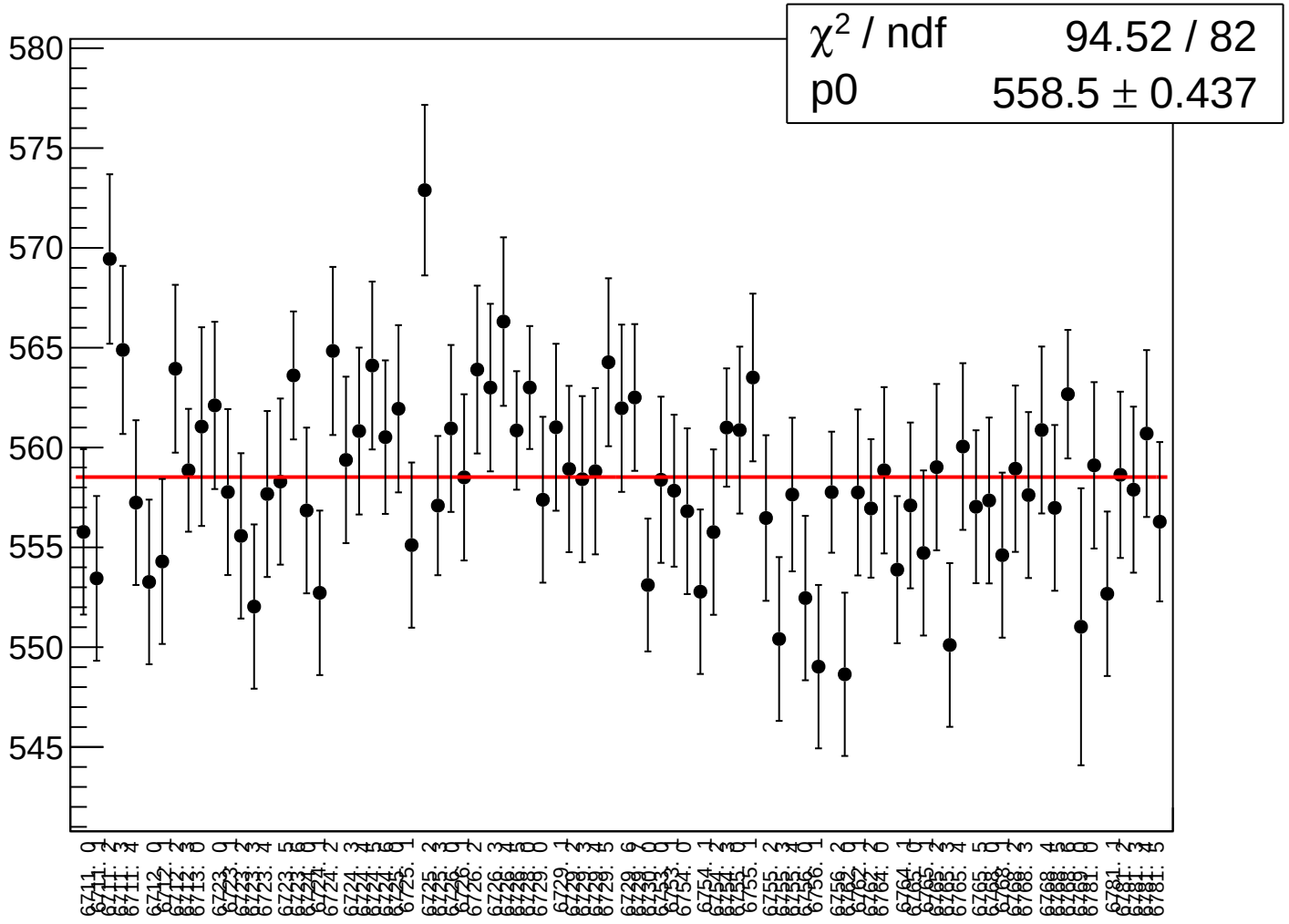

asym_dsr_mean vs run
χ² / ndf 114.5 / 82
p0 267.2 ± 153.2
6000
4000
2000
0
−2000
−4000
pull
Entries 83
Mean 193.2
Std Dev 142.1
4
3
2
1
0
−1
−2

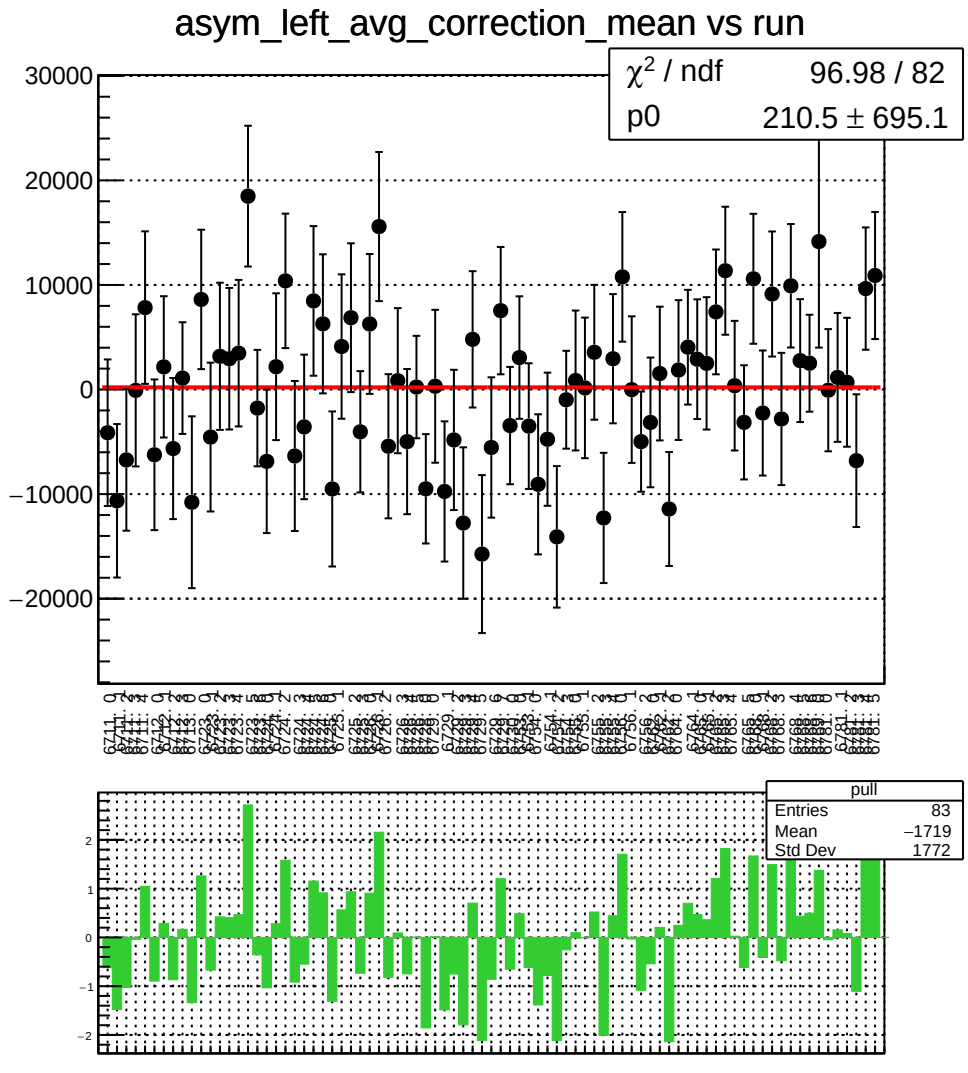

pull1D
Entries 83
Mean −0.02144
Std Dev 1.174
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

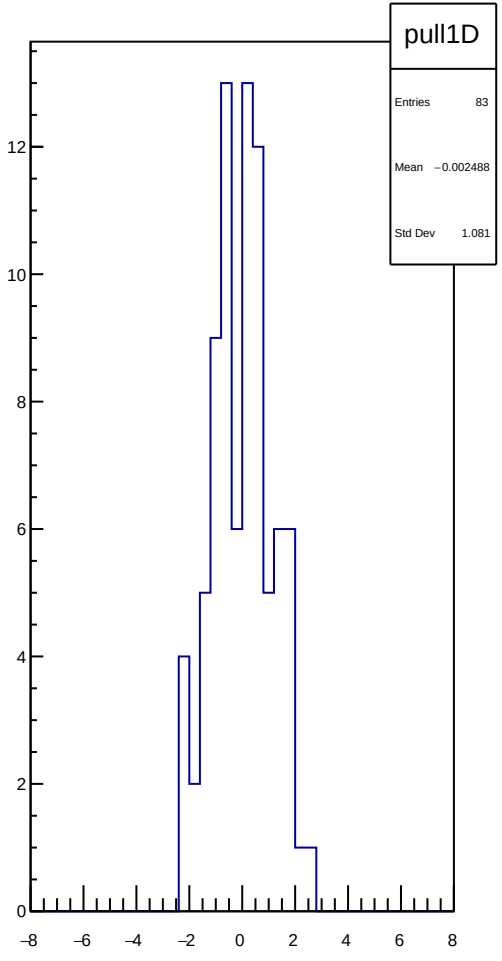

asym_dsr_rms vs run
χ² / ndf 311 / 82
p0 138.5 ± 0.1083
148
146
144
142
140
138
136
134

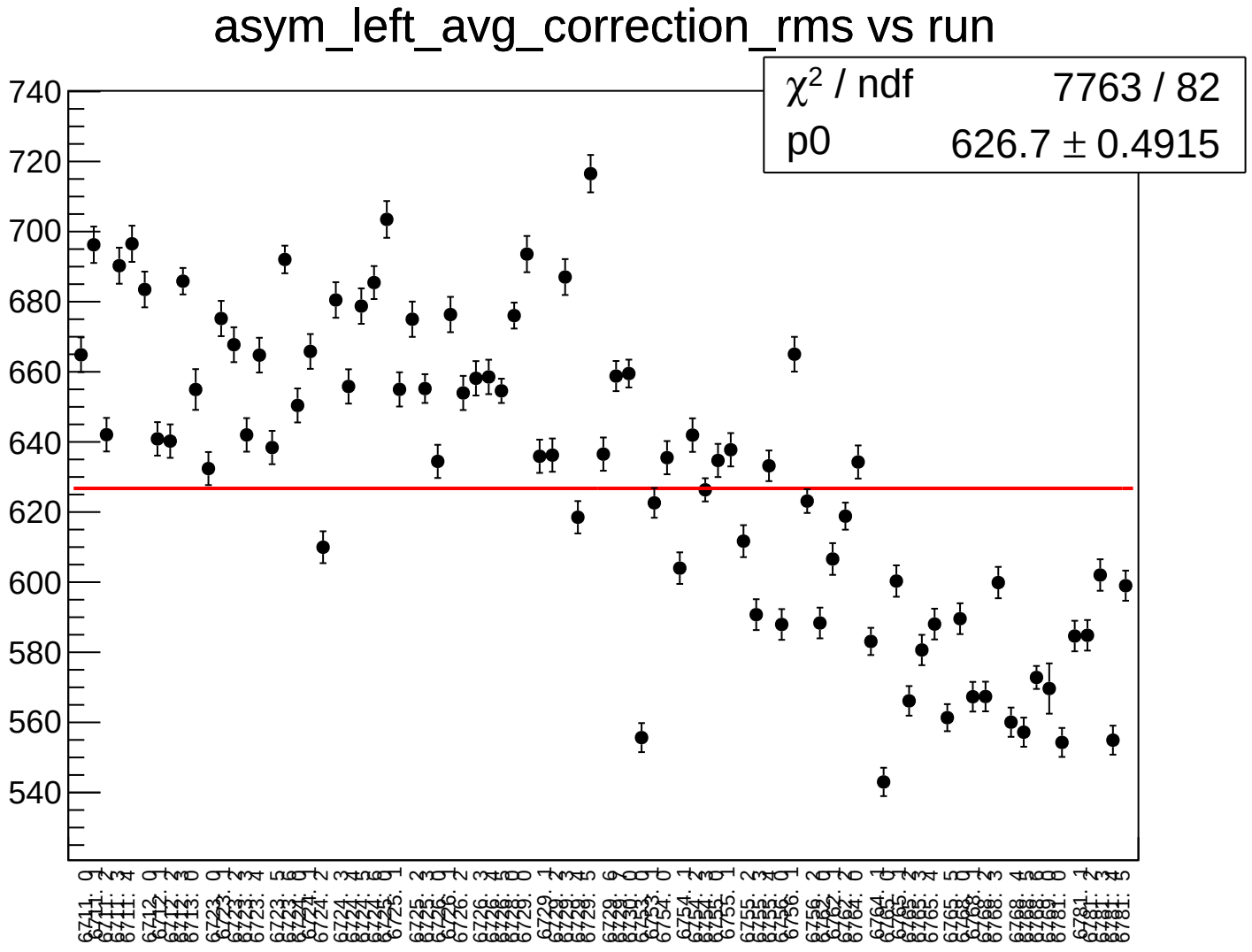

reg_asym_left_avg_mean vs run
χ² / ndf 76.39 / 82
p0 −596.9 ± 618
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 2397
Std Dev 2353
2
1
0
−1
−2
−3

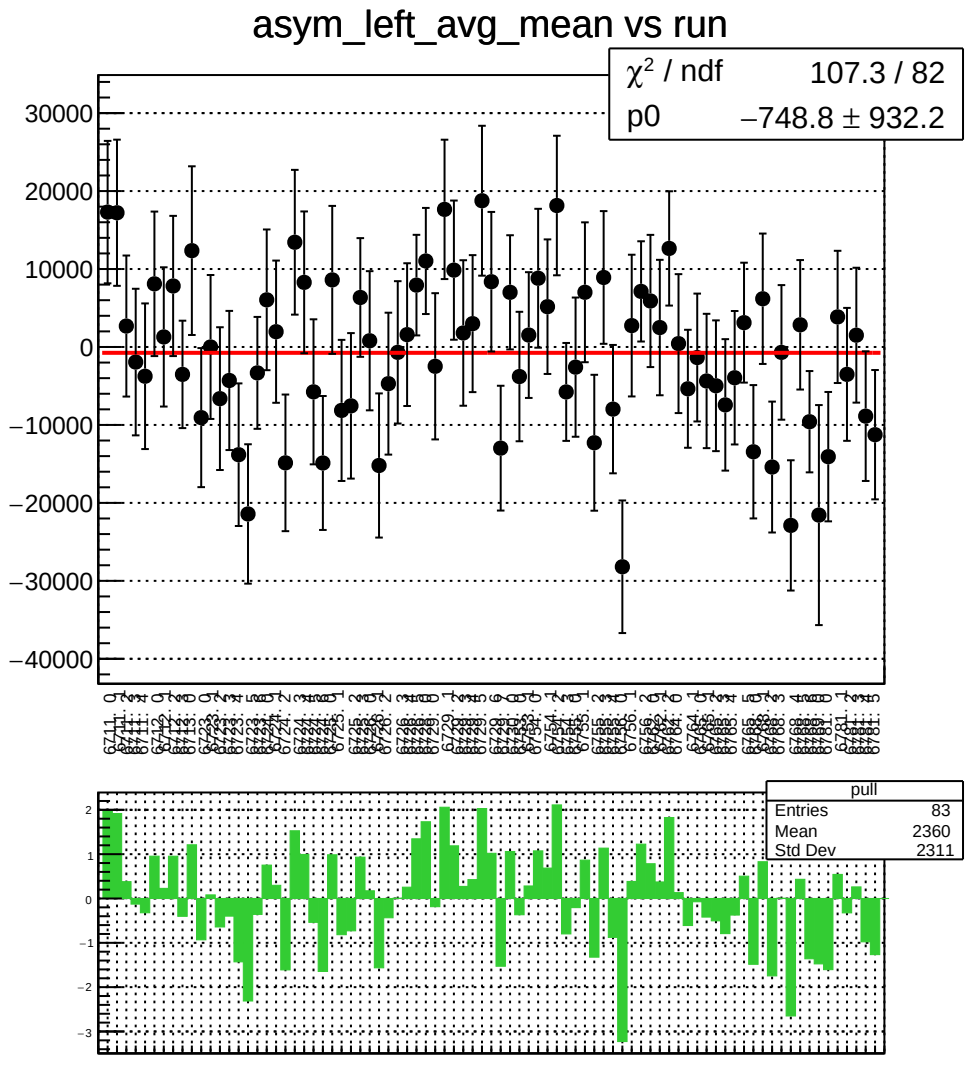

pull1D
Entries 83
Mean −0.001727
Std Dev 0.9594
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

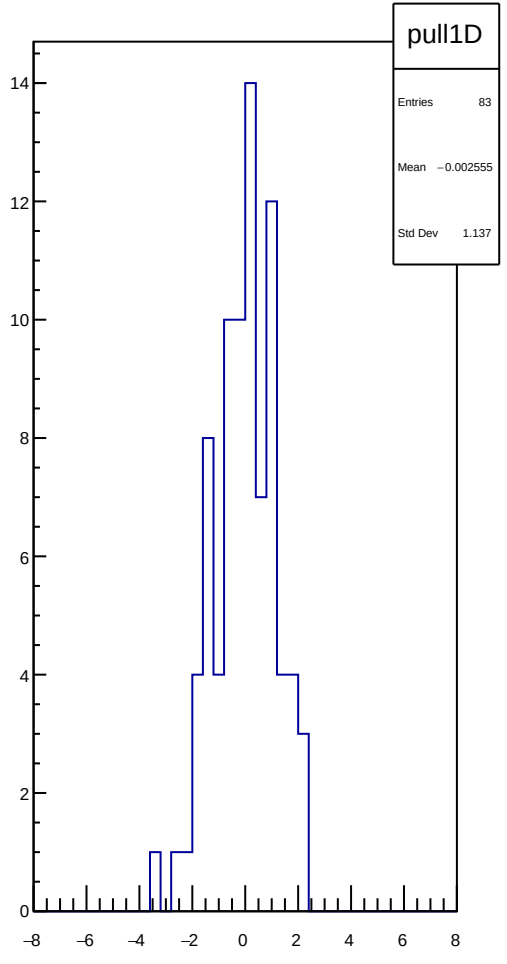

reg_asym_left_avg_rms vs run
χ² / ndf 94.52 / 82
p0 558.5 ± 0.437
580
575
570
565
560
555
550
545

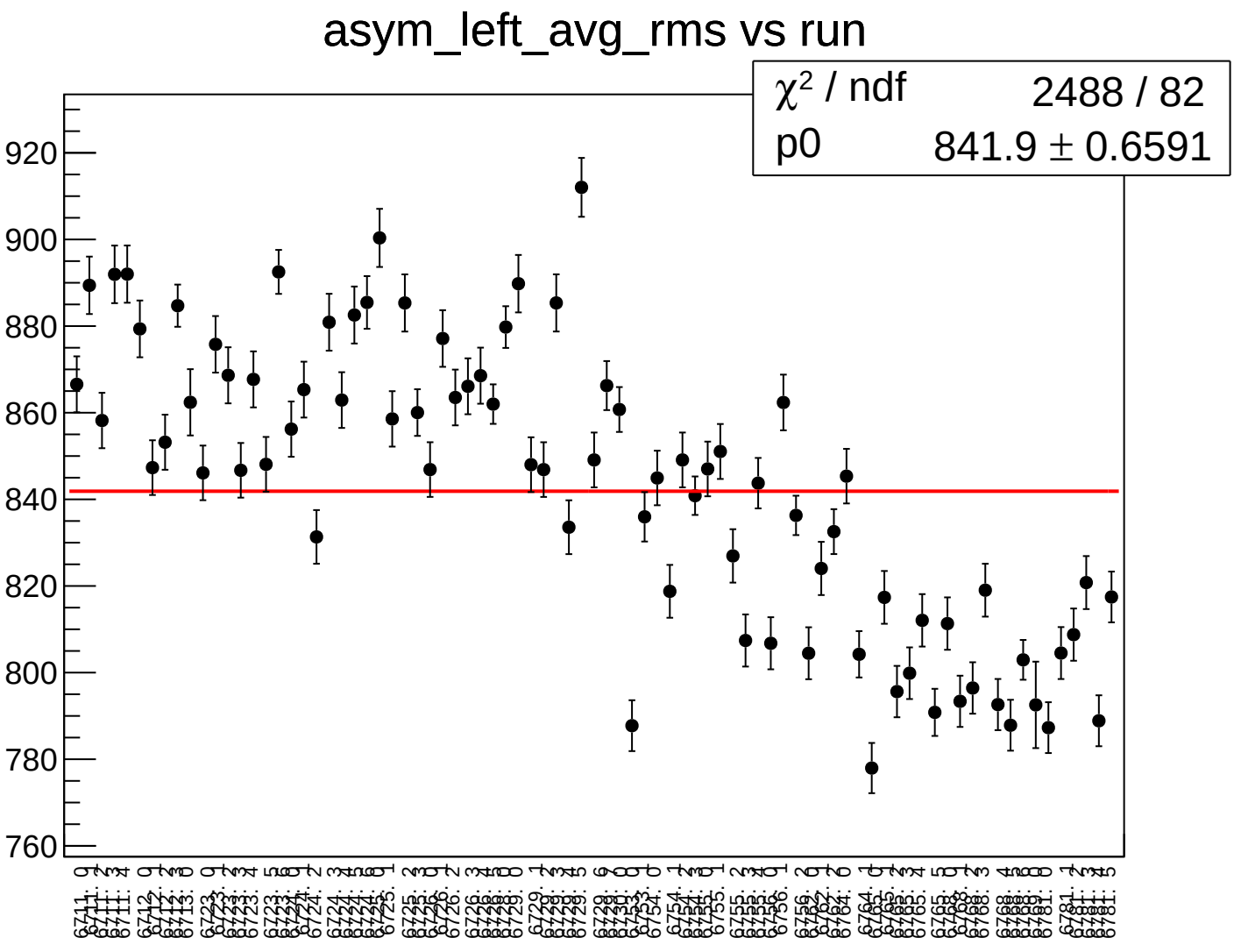

asym_left_avg_correction_mean vs run
χ² / ndf 96.98 / 82
p0 210.5 ± 695.1
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −1719
Std Dev 1772
2
1
0
−1
−2

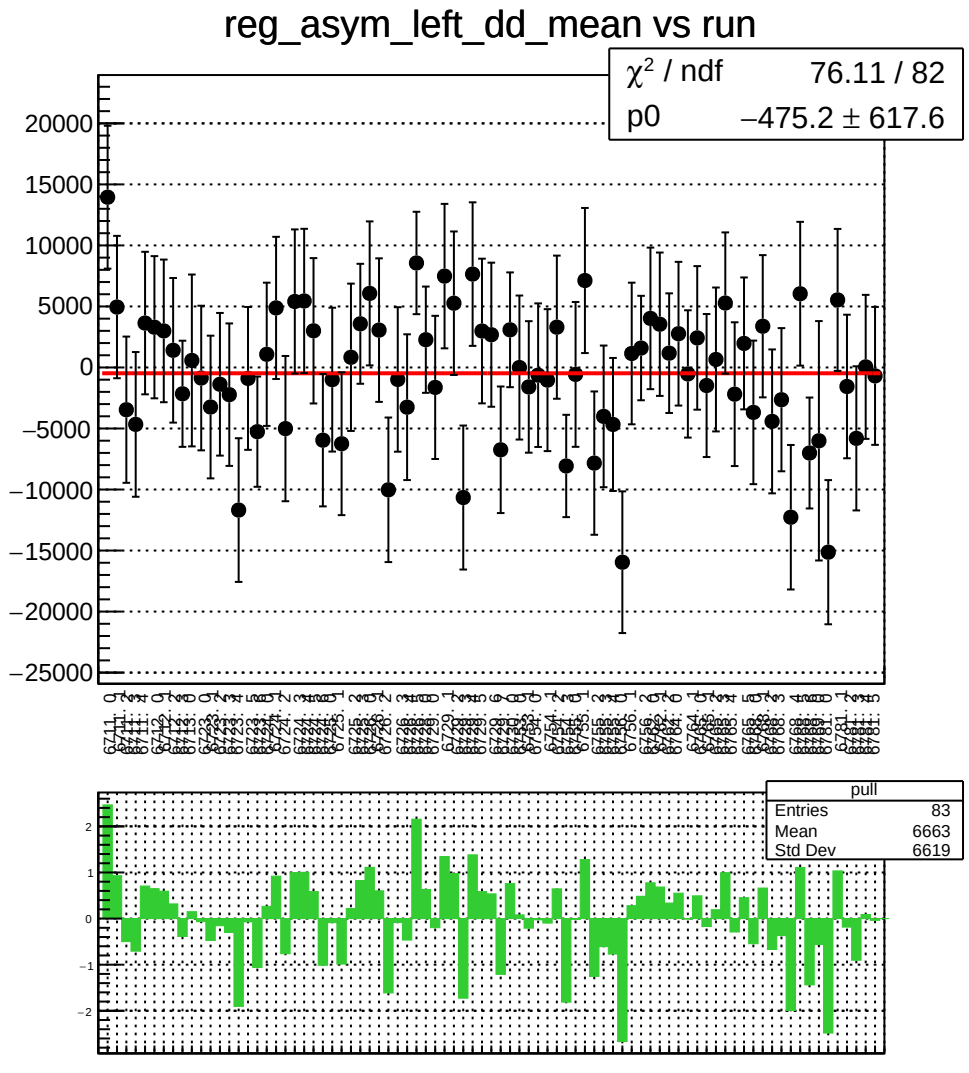

pull1D
Entries 83
Mean −0.002488
Std Dev 1.081
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

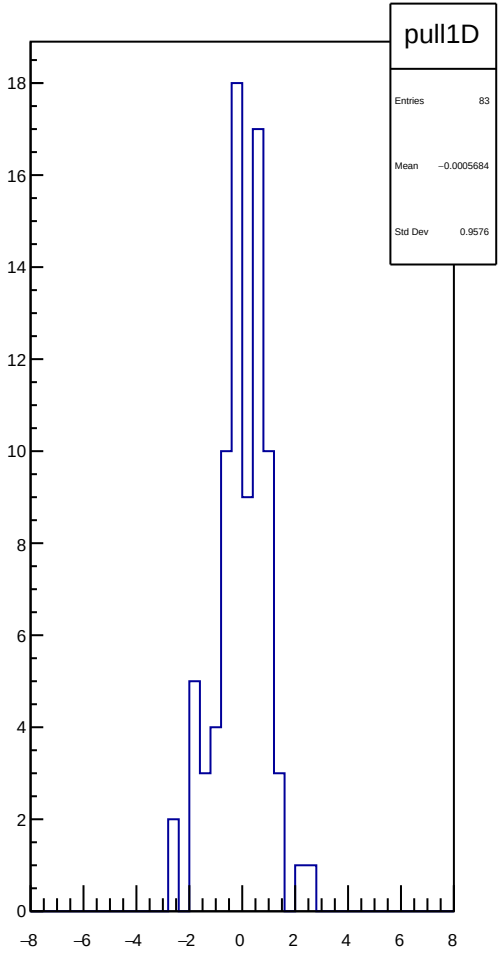

asym_left_avg_correction_rms vs run
χ² / ndf 7763 / 82
p0 626.7 ± 0.4915
740
720
700
680
660
640
620
600
580
560
540

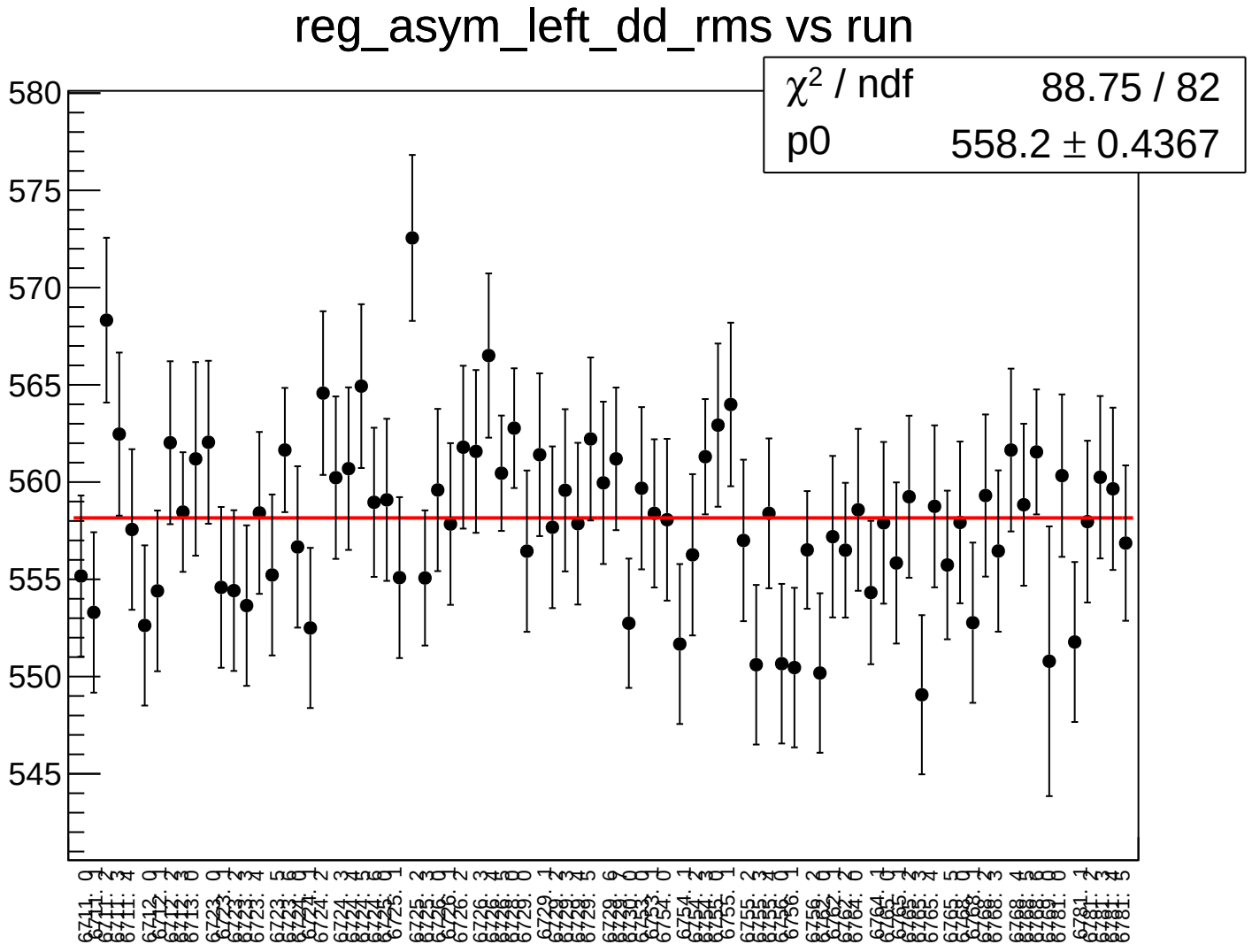

asym_left_avg_mean vs run
χ² / ndf 107.3 / 82
p0 −748.8 ± 932.2
pull
Entries 83
Mean 2360
Std Dev 2311

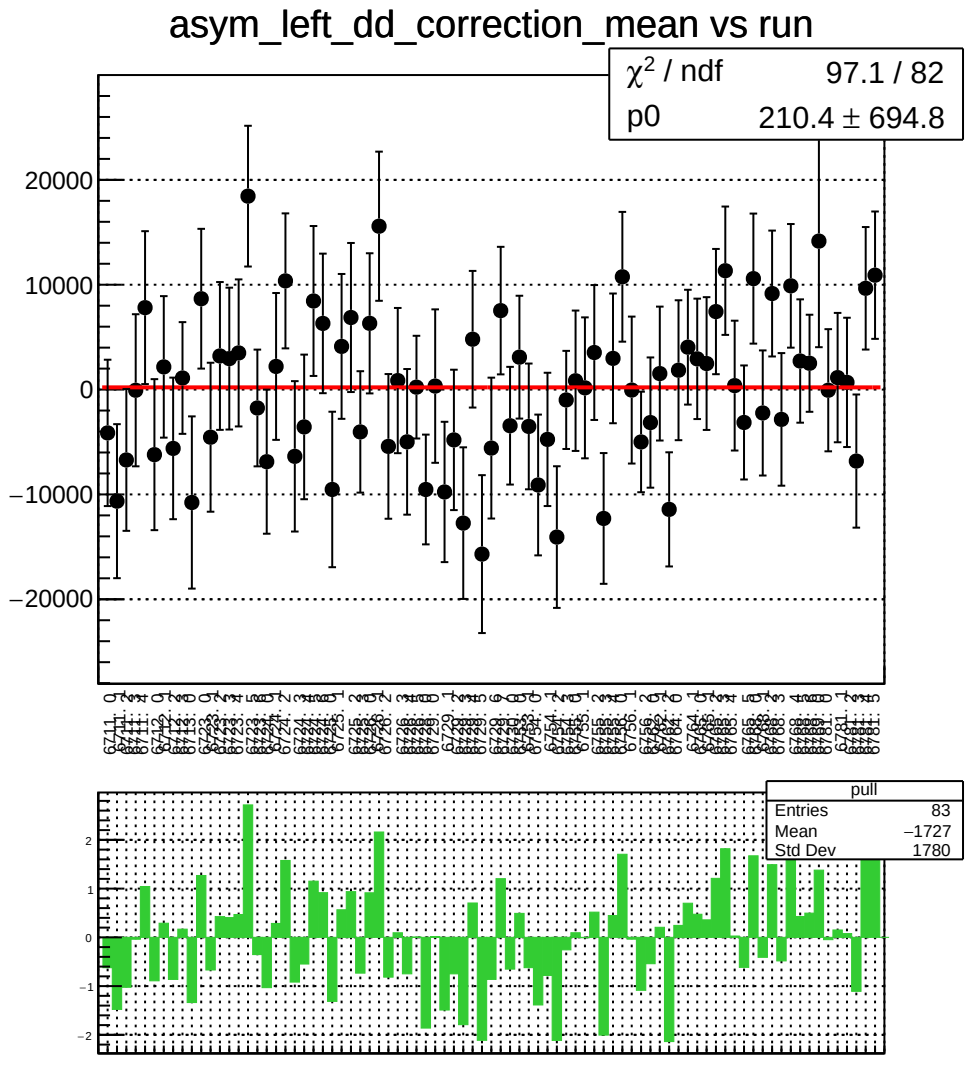

pull1D
Entries 83
Mean −0.002555
Std Dev 1.137

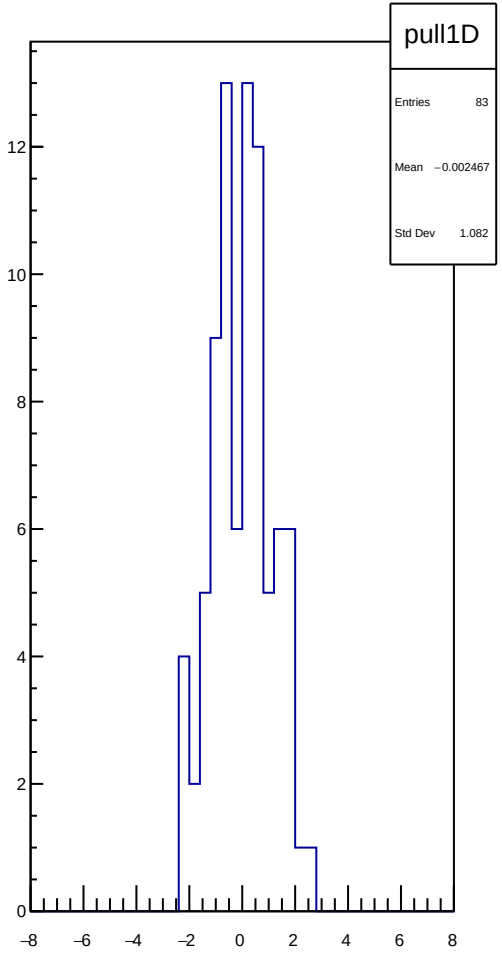

asym_left_avg_rms vs run
χ² / ndf 2488 / 82
p0 841.9 ± 0.6591
920
900
880
860
840
820
800
780
760

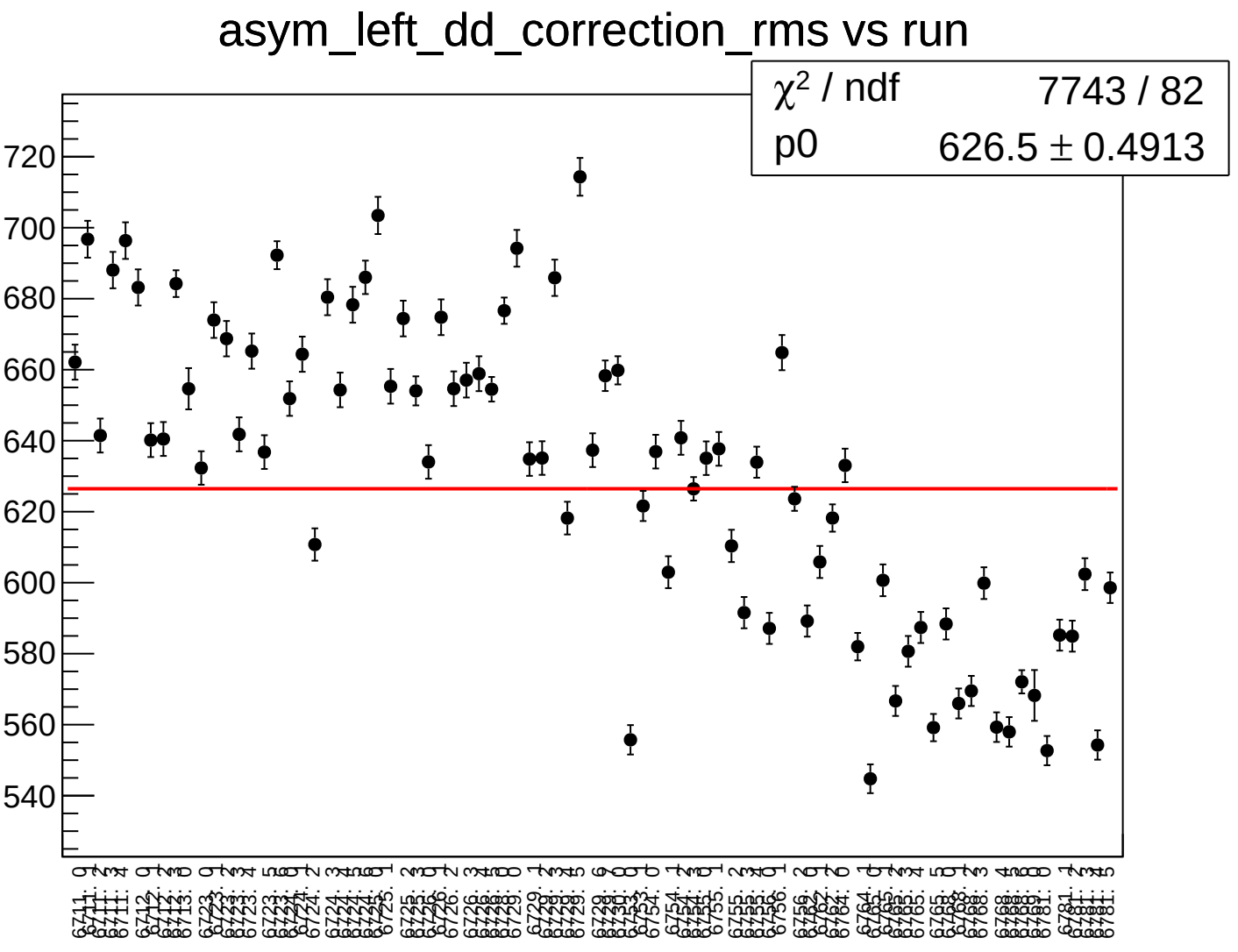

reg_asym_left_dd_mean vs run
χ² / ndf 76.11 / 82
p0 −475.2 ± 617.6
pull
Entries 83
Mean 6663
Std Dev 6619

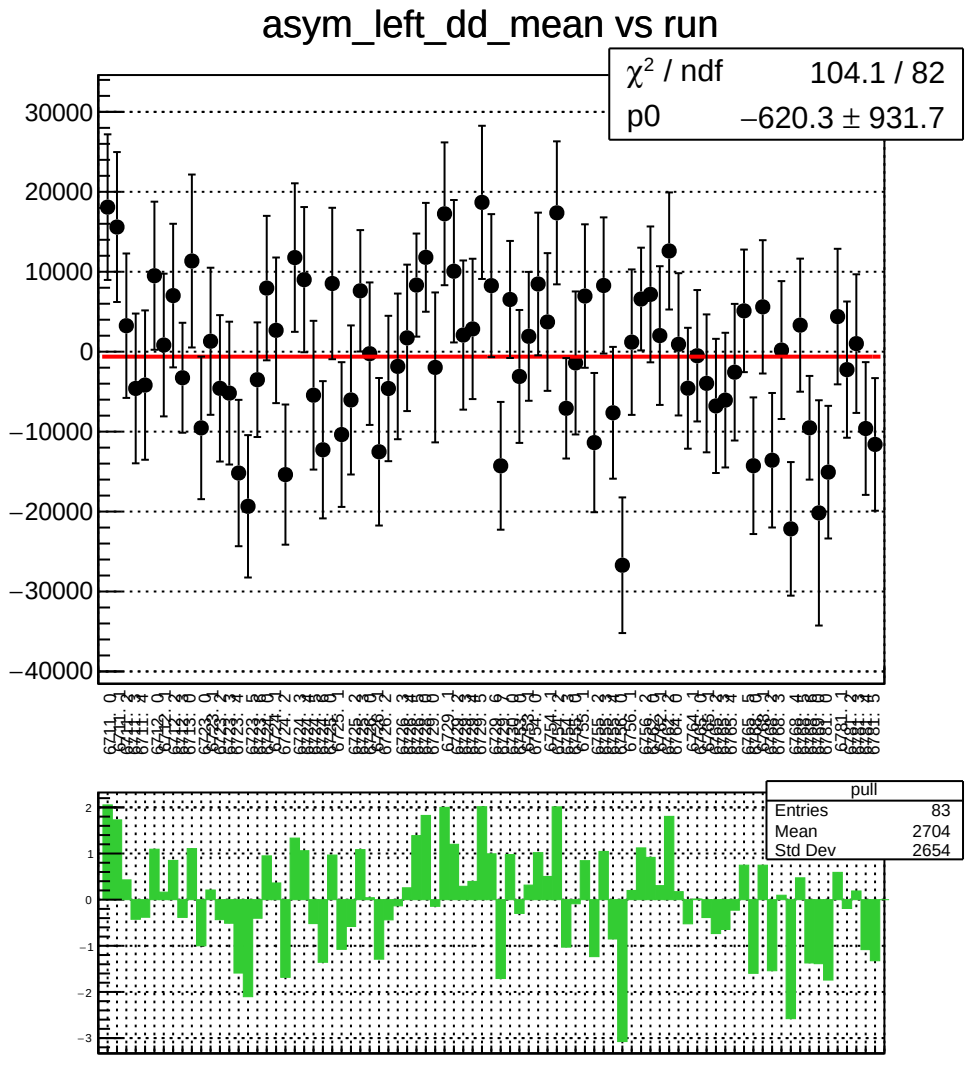

pull1D
Entries 83
Mean −0.0005684
Std Dev 0.9576

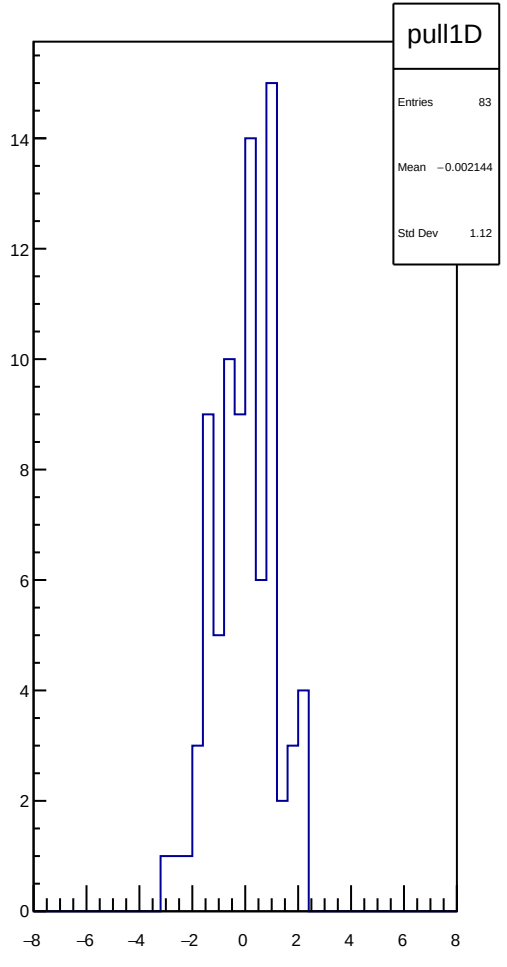

reg_asym_left_dd_rms vs run
χ² / ndf 88.75 / 82
p0 558.2 ± 0.4367
580
575
570
565
560
555
550
545

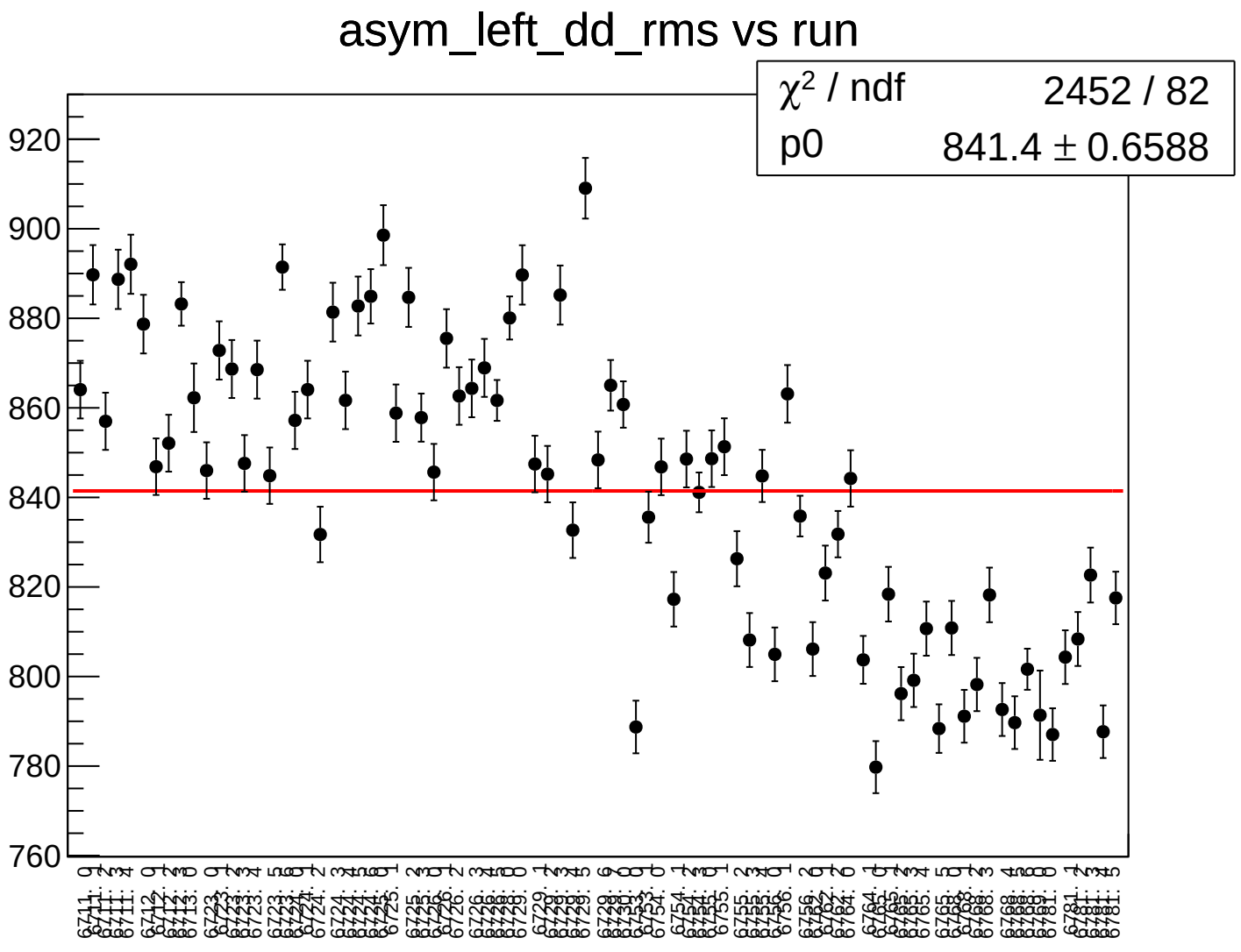

asym_left_dd_correction_mean vs run
χ² / ndf 97.1 / 82
p0 210.4 ± 694.8
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −1727
Std Dev 1780
2
1
0
−1
−2

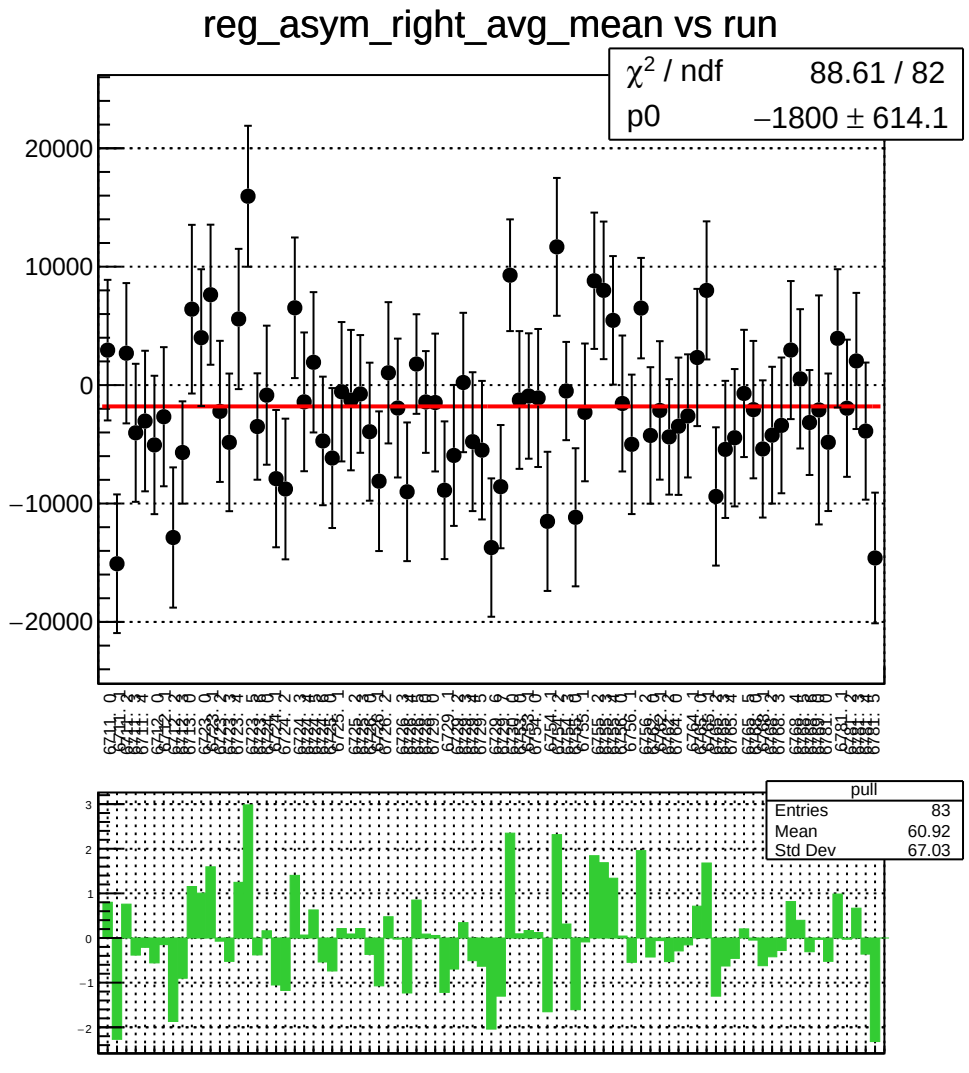

pull1D
Entries 83
Mean −0.002467
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

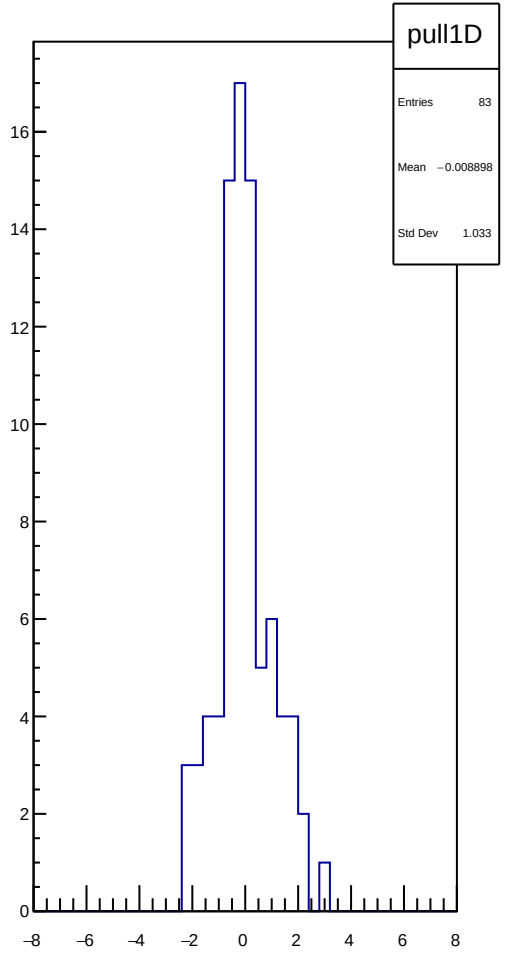

asym_left_dd_correction_rms vs run
χ² / ndf 7743 / 82
p0 626.5 ± 0.4913
720
700
680
660
640
620
600
580
560
540

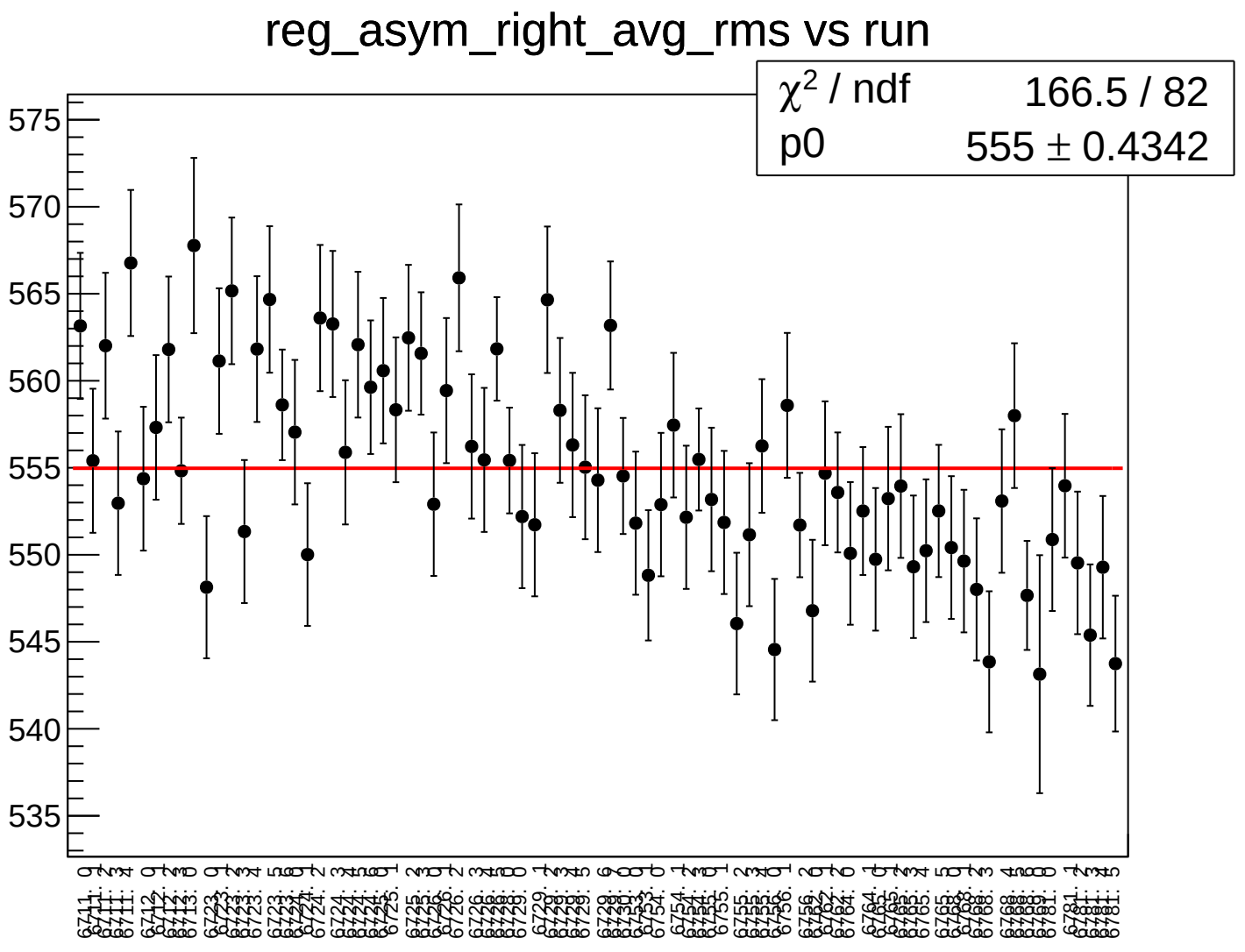

asym_left_dd_mean vs run
χ² / ndf 104.1 / 82
p0 −620.3 ± 931.7
pull
Entries 83
Mean 2704
Std Dev 2654

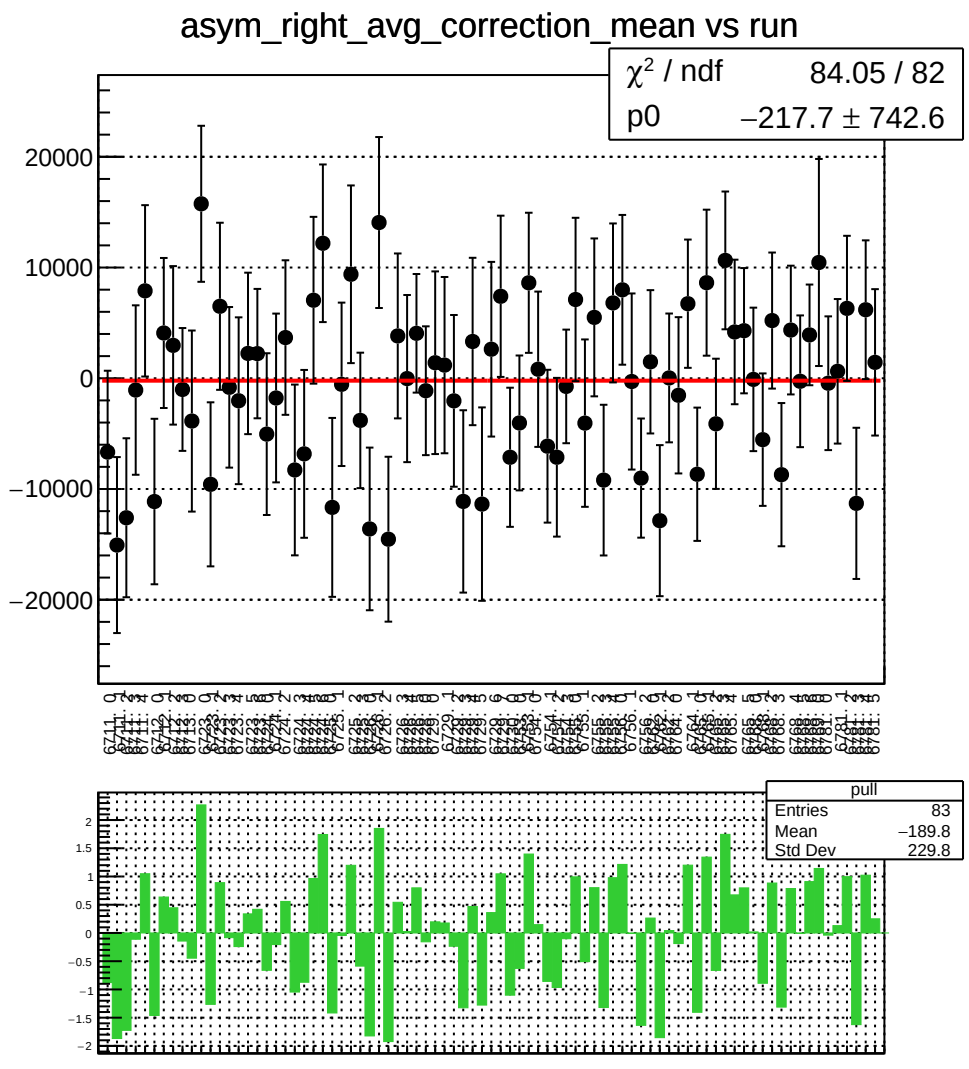

pull1D
Entries 83
Mean −0.002144
Std Dev 1.12

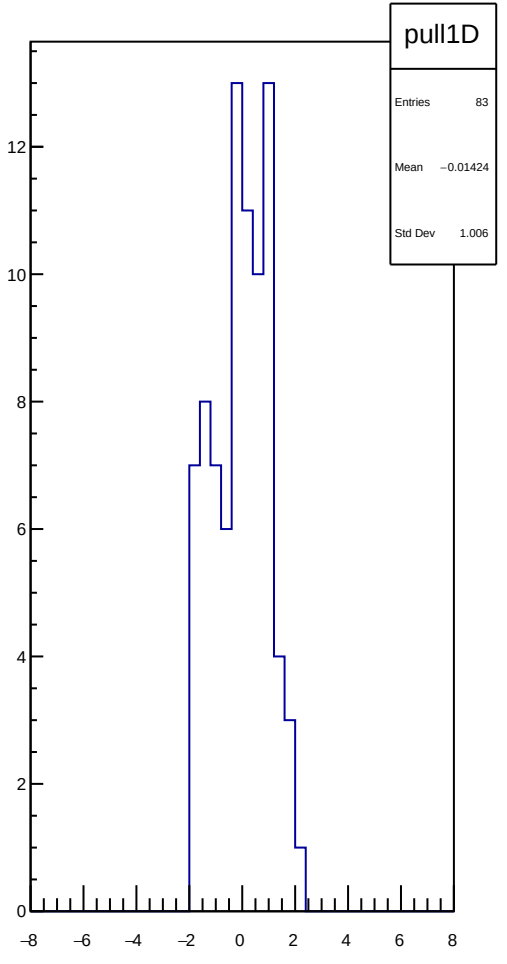

asym_left_dd_rms vs run
χ² / ndf 2452 / 82
p0 841.4 ± 0.6588
920
900
880
860
840
820
800
780
760

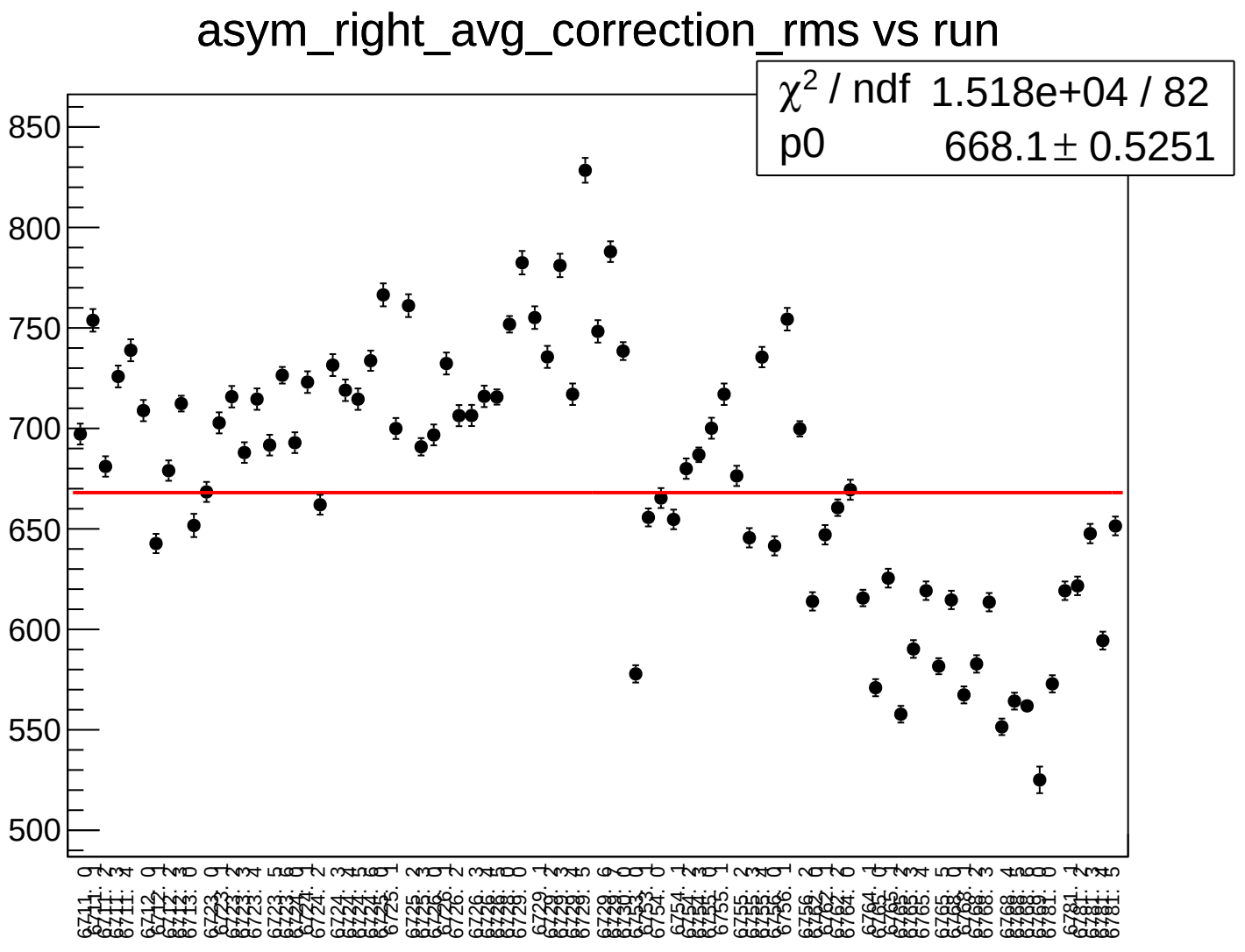

reg_asym_right_avg_mean vs run
χ² / ndf 88.61 / 82
p0 −1800 ± 614.1
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 60.92
Std Dev 67.03
3
2
1
0
−1
−2

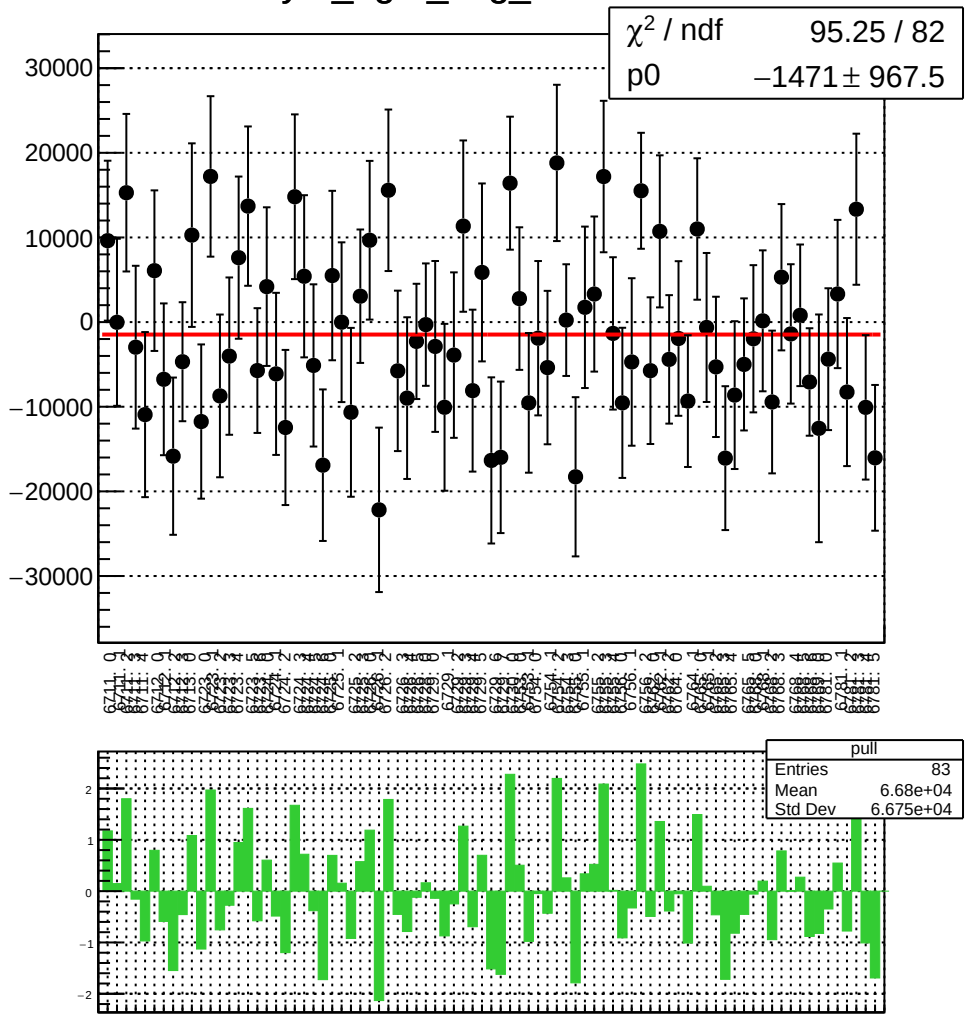

pull1D
Entries 83
Mean −0.008898
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

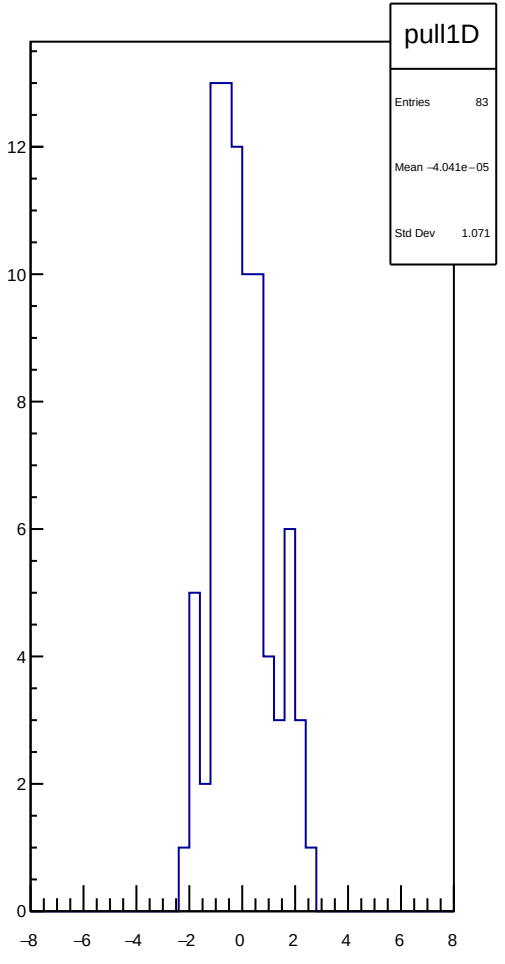

reg_asym_right_avg_rms vs run
χ^2 / ndf 166.5 / 82
p0 555 ± 0.4342
575
570
565
560
555
550
545
540
535

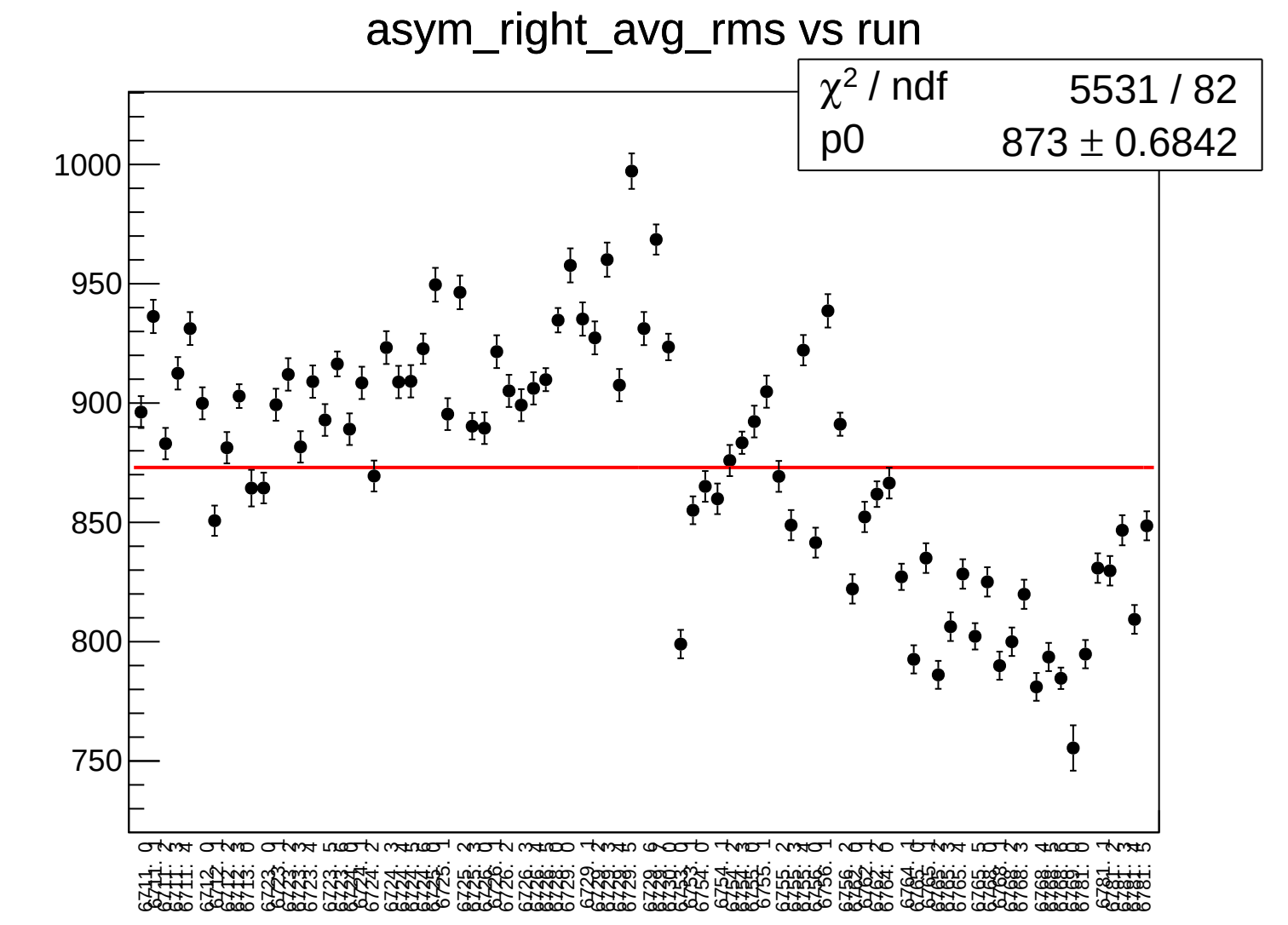

asym_right_avg_correction_mean vs run
χ² / ndf 84.05 / 82
p0 −217.7 ± 742.6
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −189.8
Std Dev 229.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

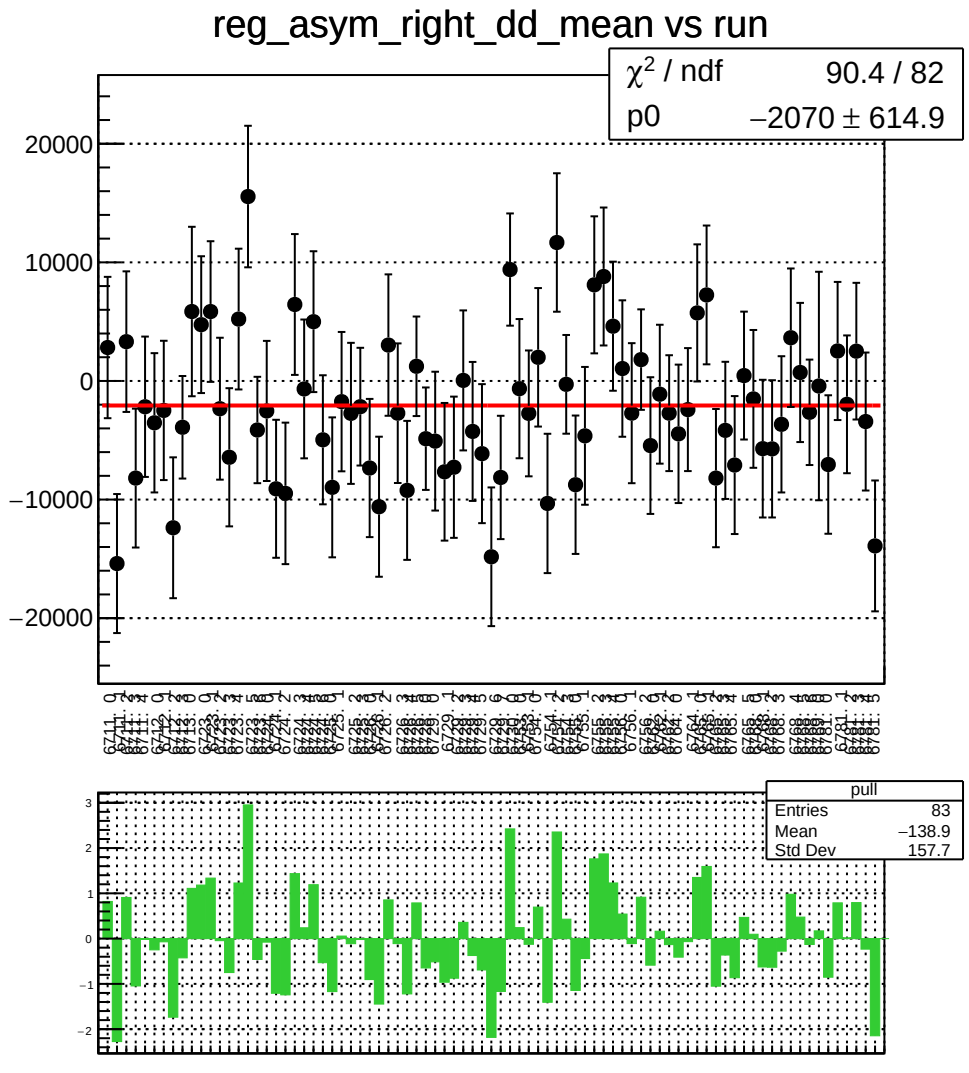

pull1D
Entries 83
Mean −0.01424
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

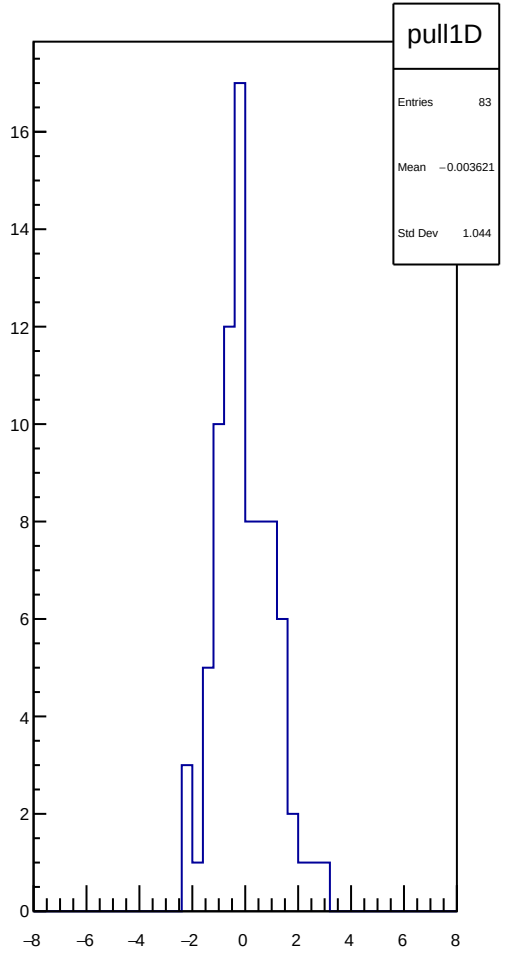

asym_right_avg_correction_rms vs run
χ² / ndf 1.518e+04 / 82
p0 668.1 ± 0.5251
850
800
750
700
650
600
550
500

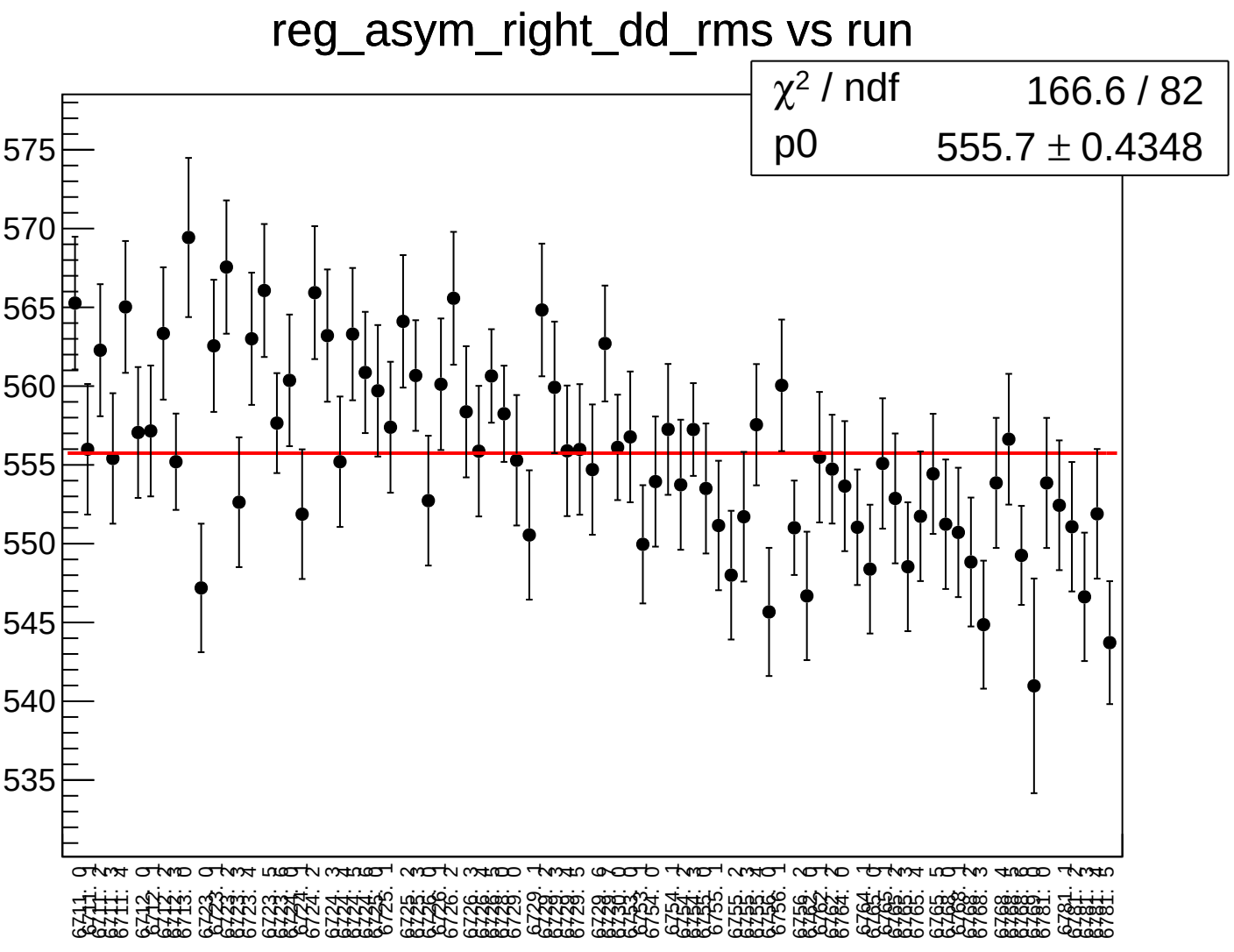

asym_right_avg_mean vs run
χ² / ndf 95.25 / 82
p0 −1471 ± 967.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean 6.68e+04
Std Dev 6.675e+04
2
1
0
−1
−2

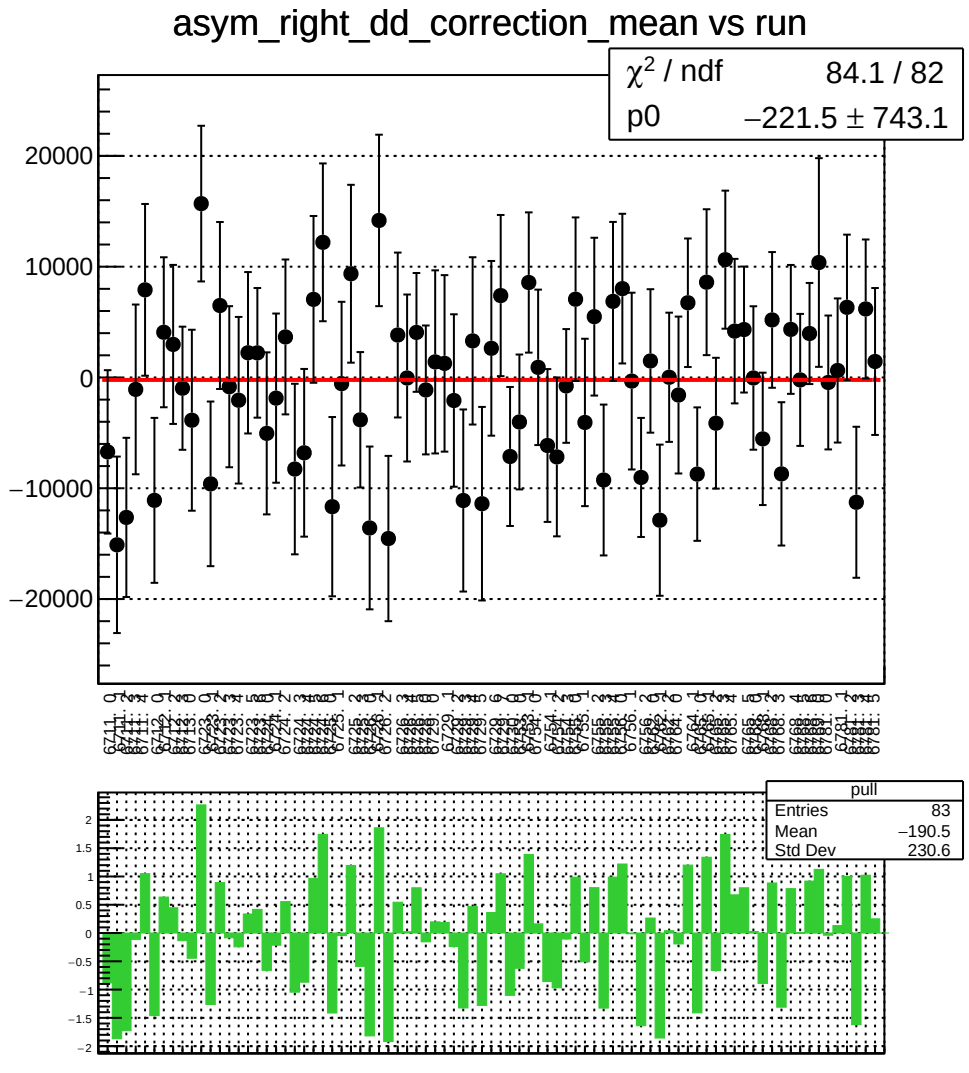

pull1D
Entries 83
Mean −4.041e−05
Std Dev 1.071
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

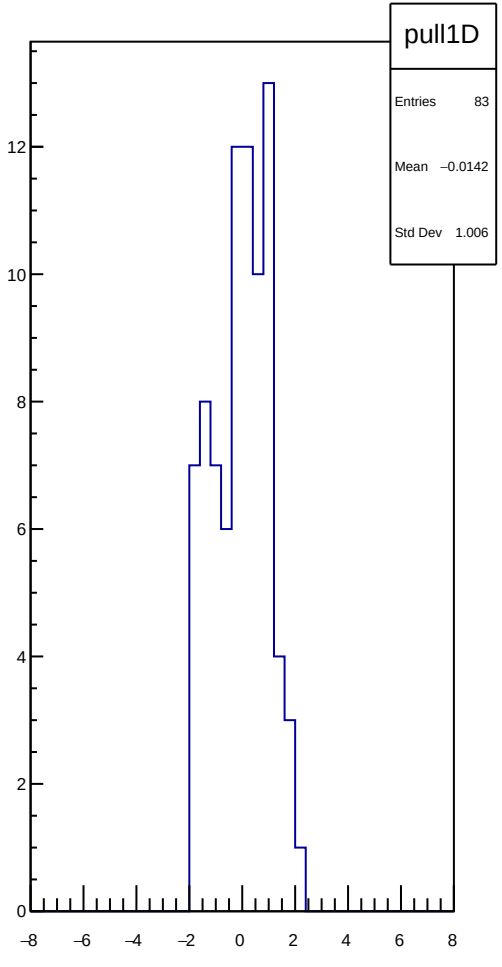

asym_right_avg_rms vs run
χ² / ndf 5531 / 82
p0 873 ± 0.6842
1000
950
900
850
800
750

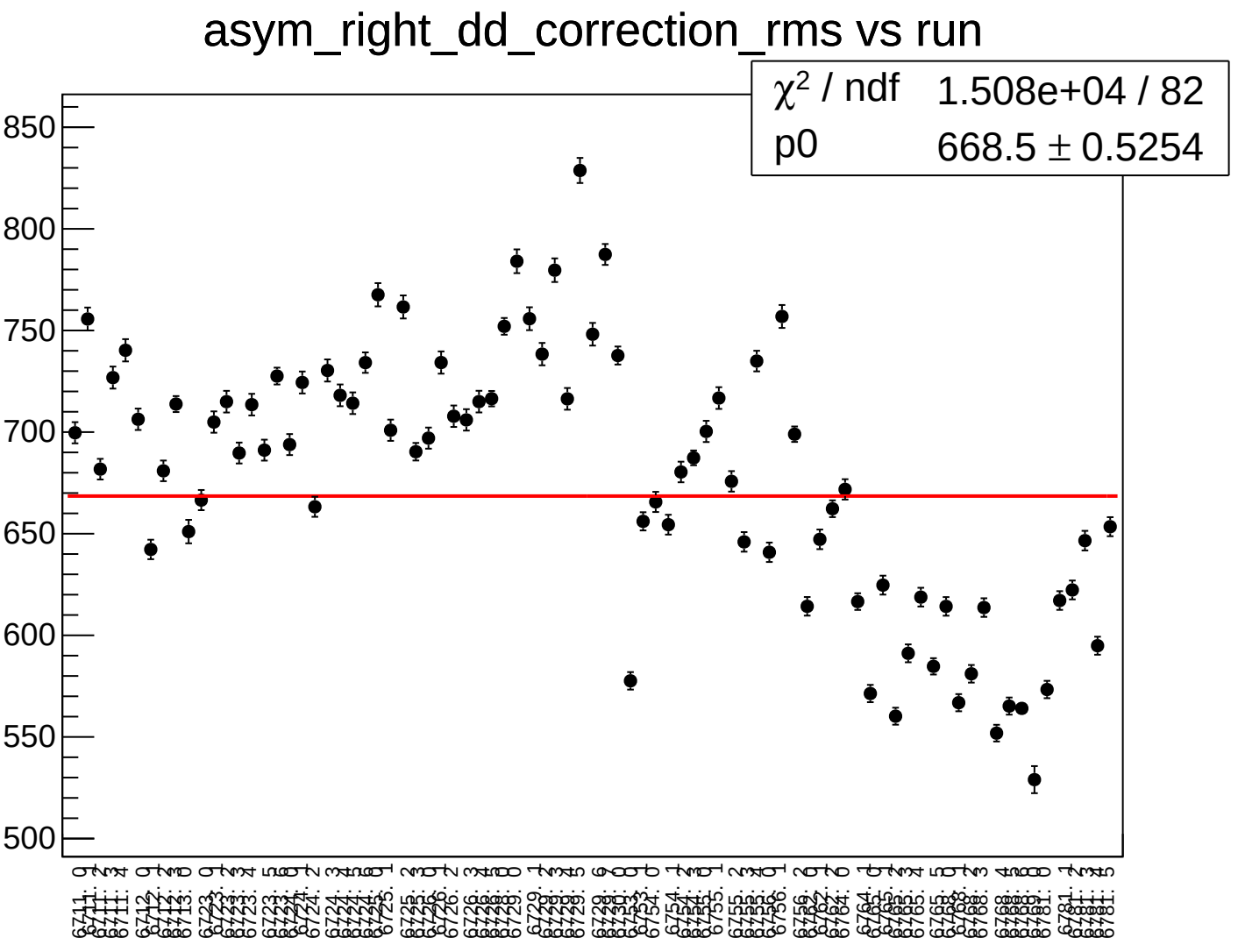

reg_asym_right_dd_mean vs run
χ² / ndf 90.4 / 82
p0 −2070 ± 614.9
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −138.9
Std Dev 157.7
3
2
1
0
−1
−2

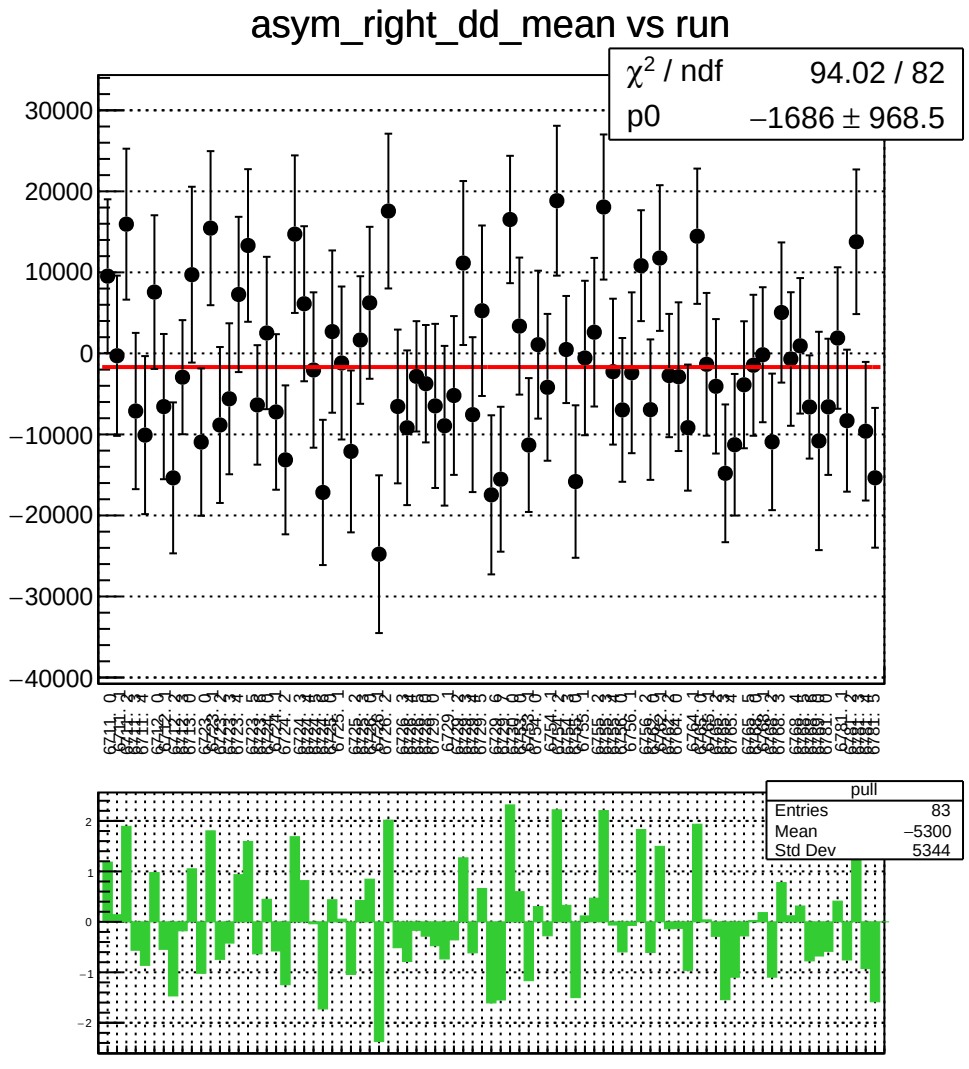

pull1D
Entries 83
Mean −0.003621
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

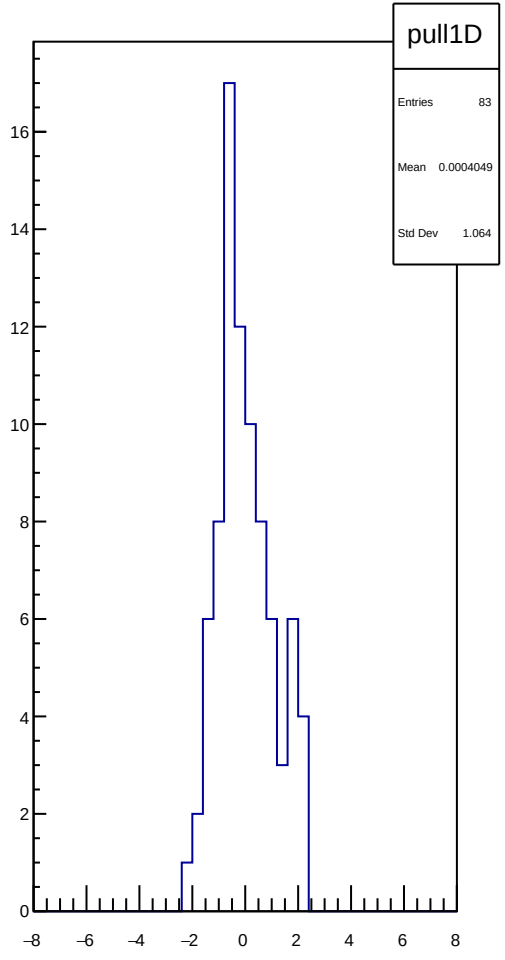

reg_asym_right_dd_rms vs run
χ² / ndf 166.6 / 82
p0 555.7 ± 0.4348
575
570
565
560
555
550
545
540
535

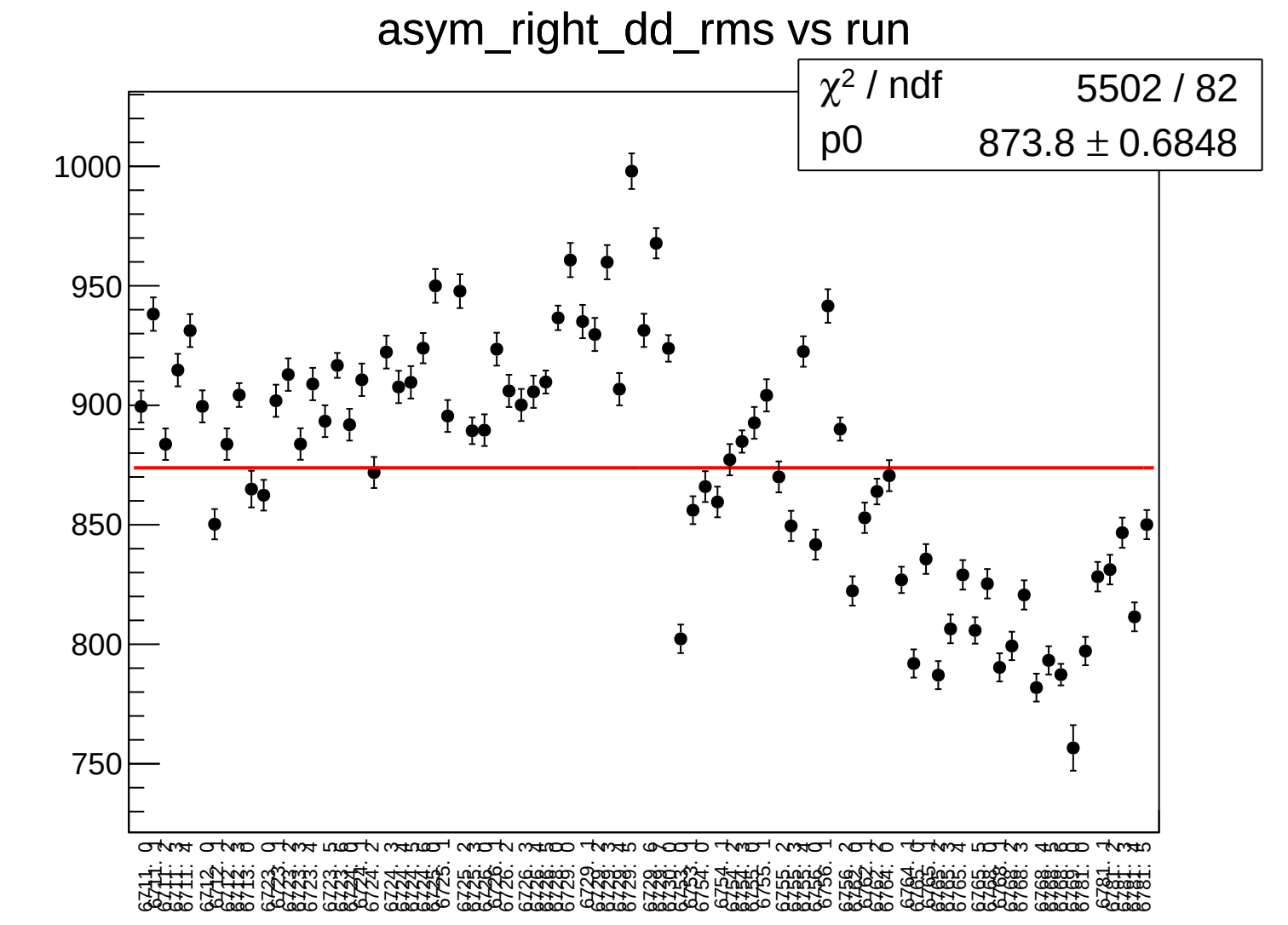

asym_right_dd_correction_mean vs run
χ² / ndf 84.1 / 82
p0 −221.5 ± 743.1
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −190.5
Std Dev 230.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

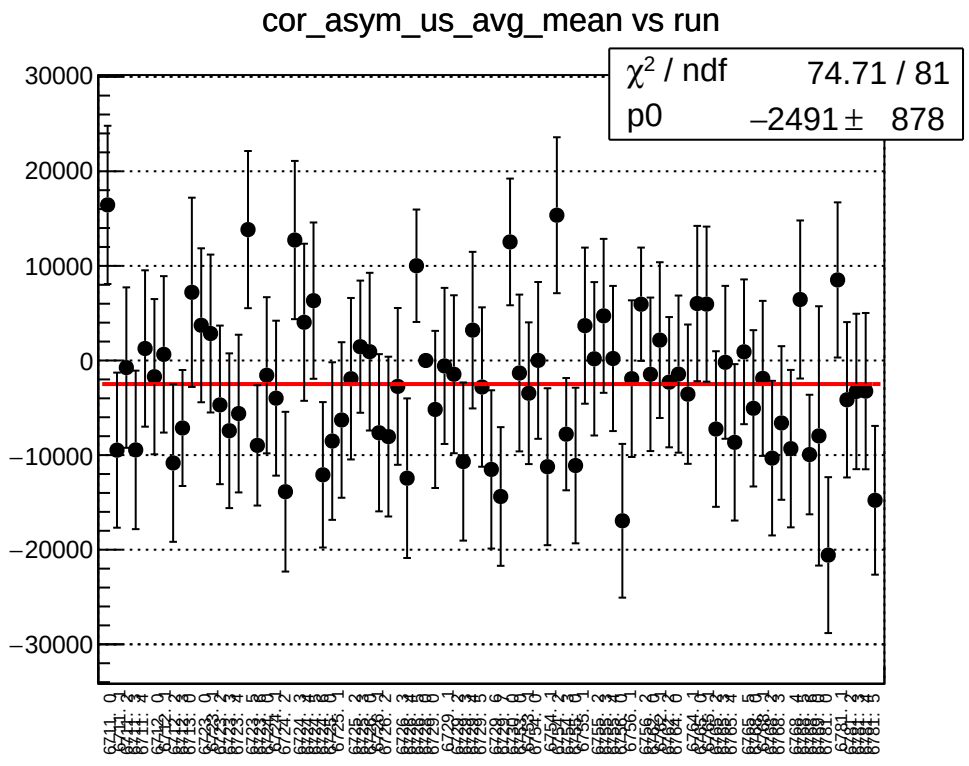

pull1D
Entries 83
Mean −0.0142
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

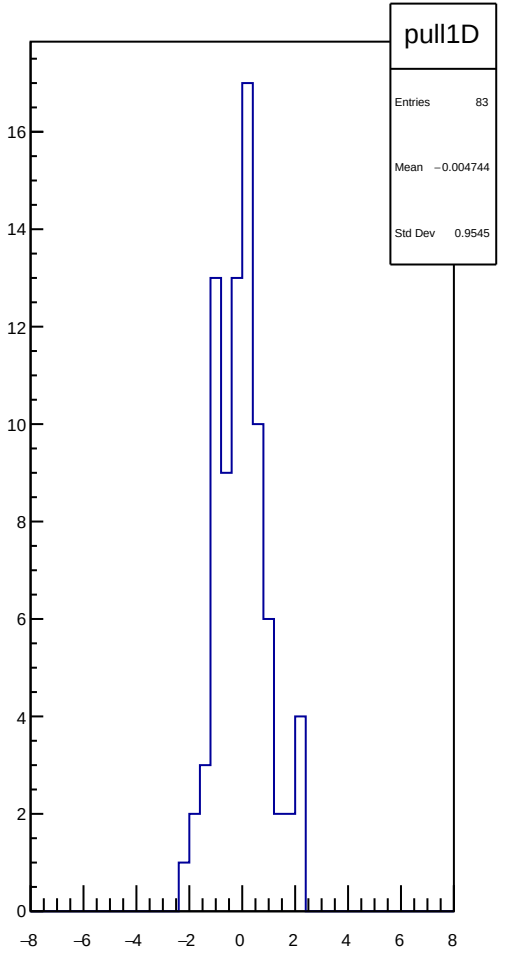

asym_right_dd_correction_rms vs run
χ² / ndf 1.508e+04 / 82
p0 668.5 ± 0.5254
850
800
750
700
650
600
550
500

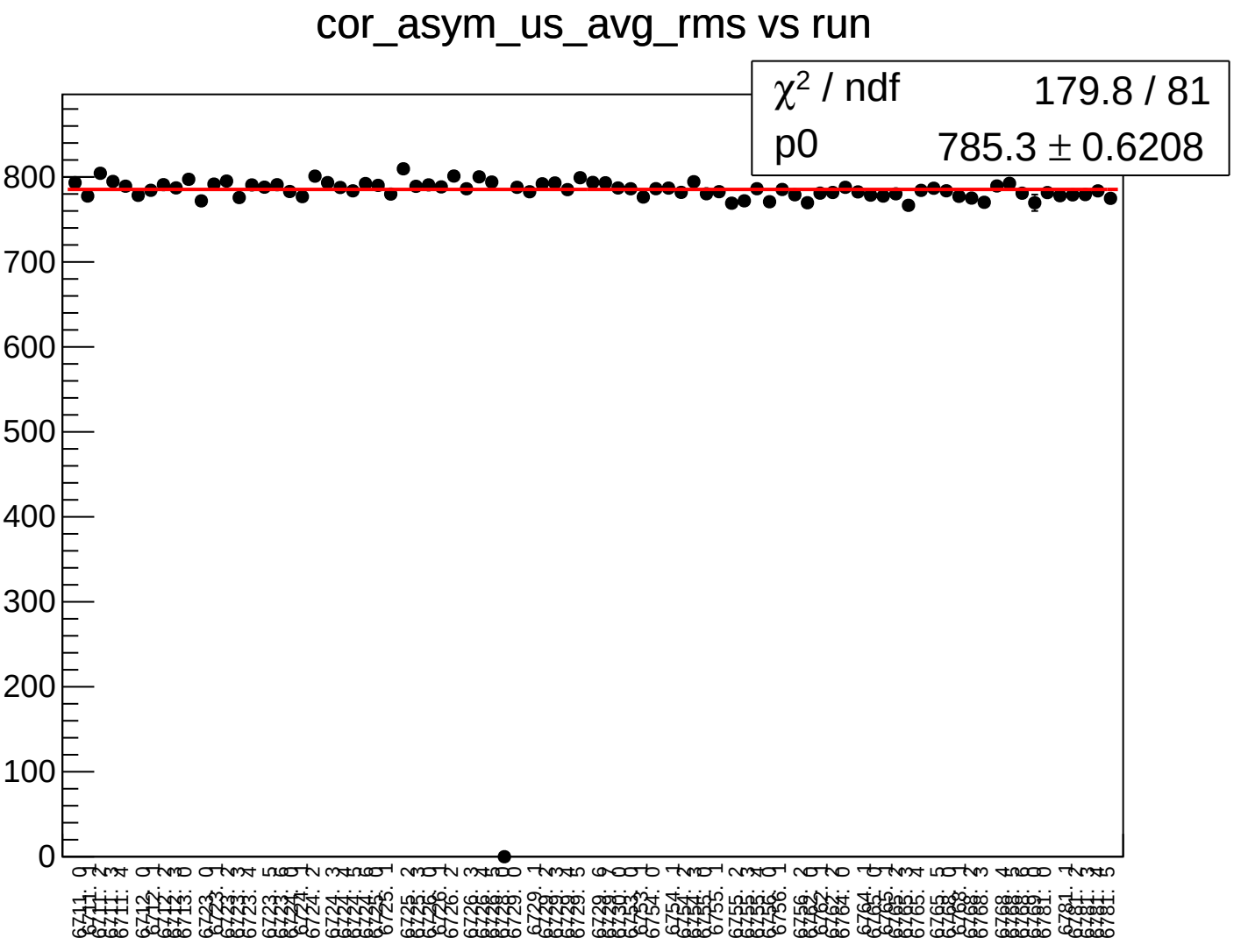

asym_right_dd_mean vs run
χ² / ndf 94.02 / 82
p0 −1686 ± 968.5
pull
Entries 83
Mean −5300
Std Dev 5344

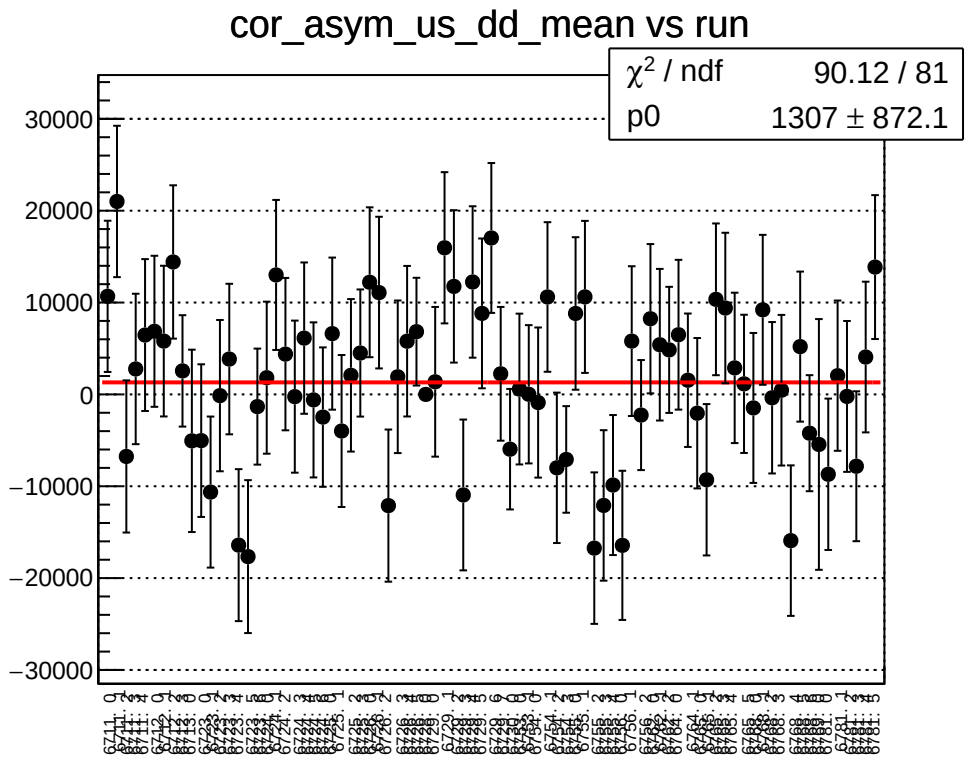

pull1D
Entries 83
Mean 0.0004049
Std Dev 1.064

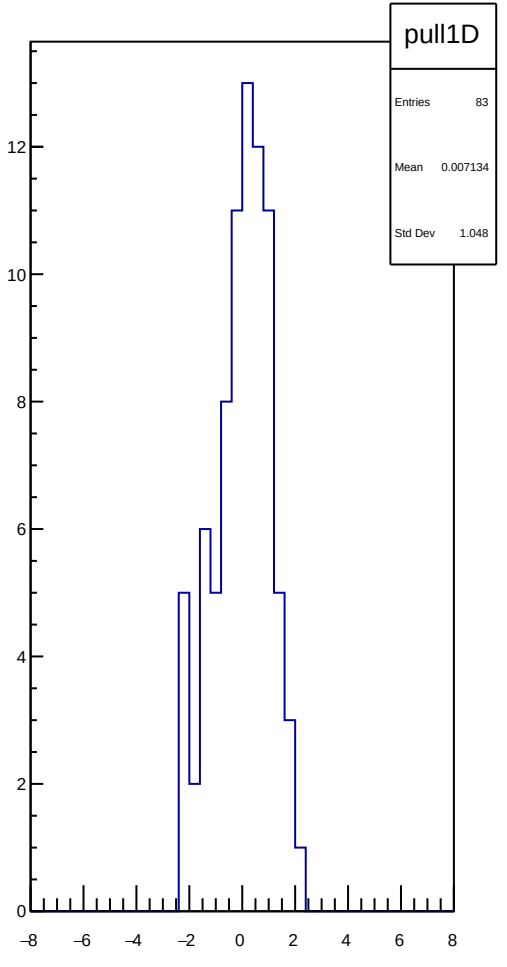

asym_right_dd_rms vs run
χ² / ndf 5502 / 82
p0 873.8 ± 0.6848
1000
950
900
850
800
750

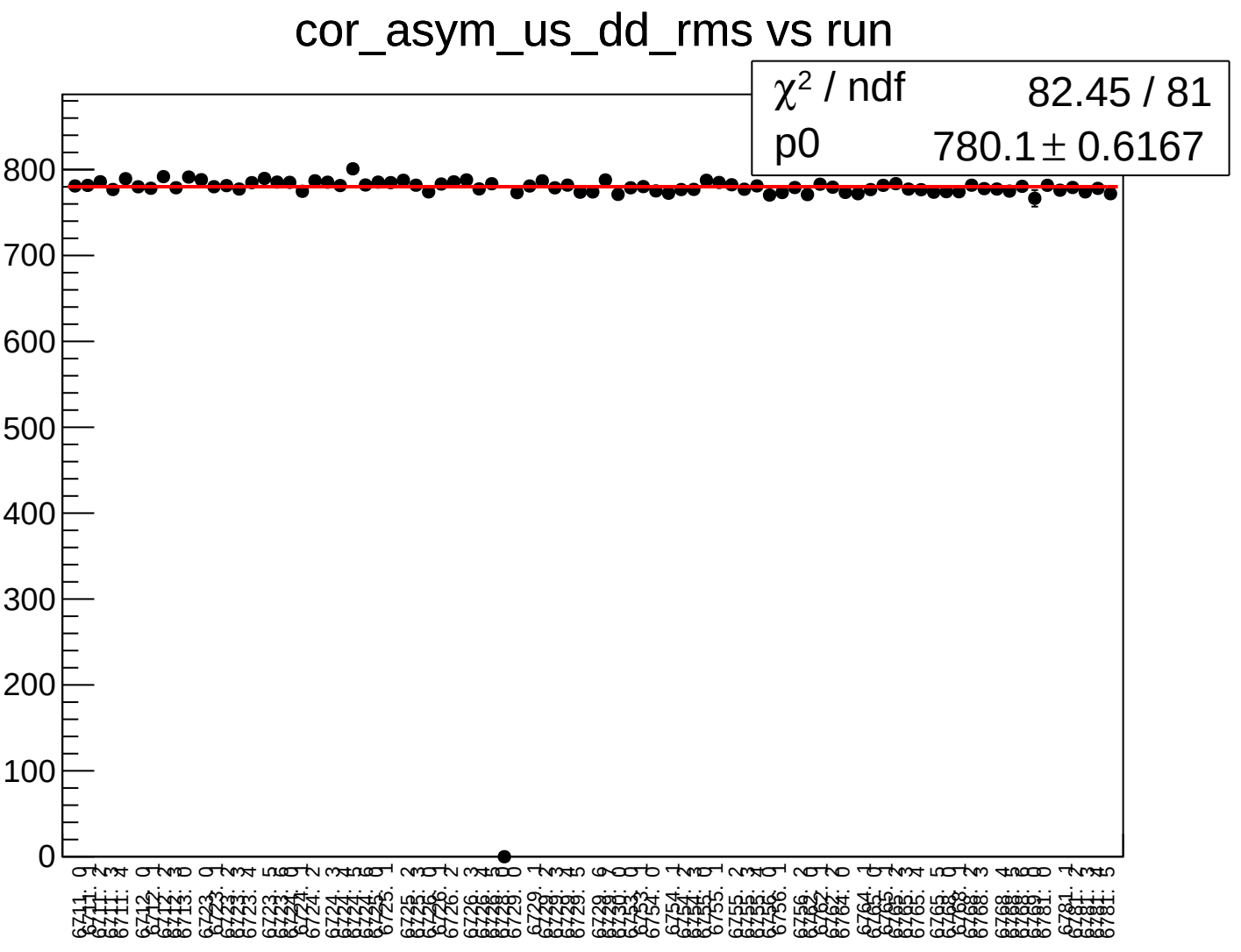

cor_asym_us_avg_mean vs run
χ² / ndf 74.71 / 81
p0 −2491 ± 878
30000
20000
10000
0
−10000
−20000
−30000

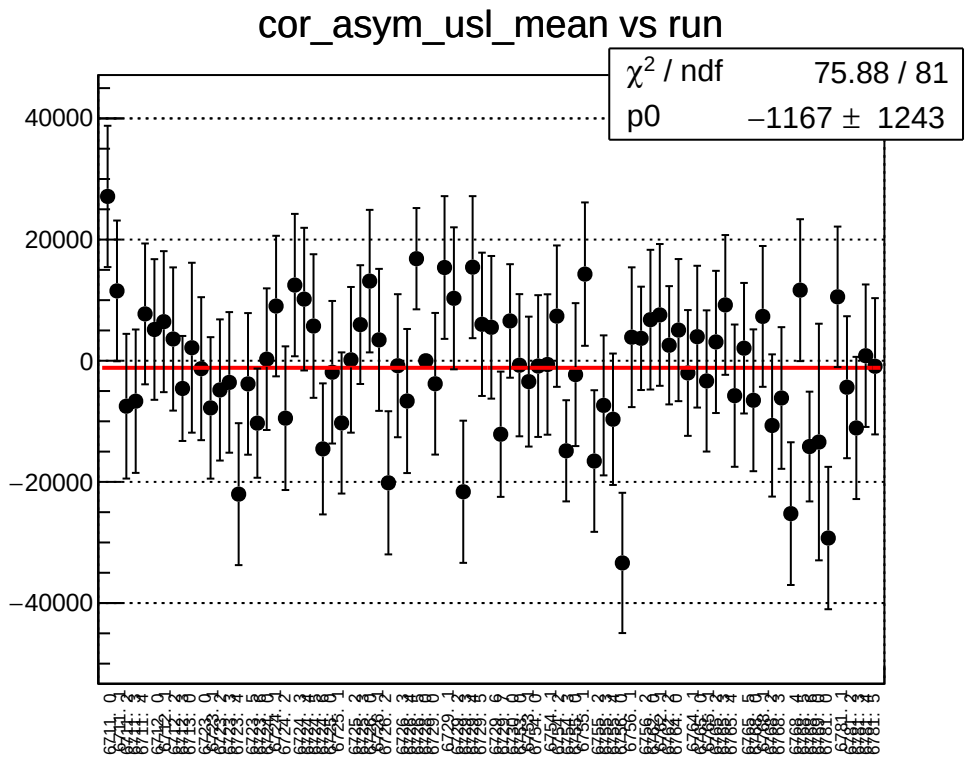

pull1D
Entries 83
Mean −0.004744
Std Dev 0.9545
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

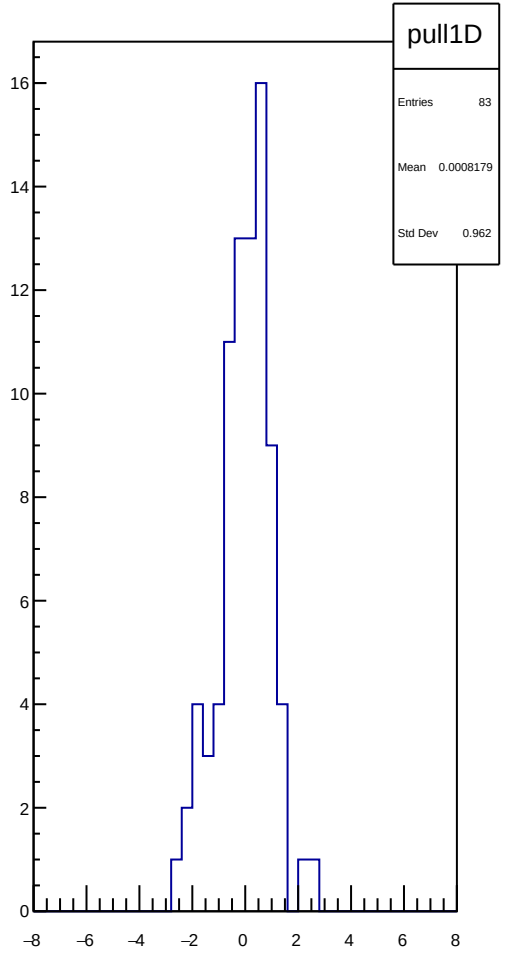

cor_asym_us_avg_rms vs run
χ² / ndf 179.8 / 81
p0 785.3 ± 0.6208
800
700
600
500
400
300
200
100
0

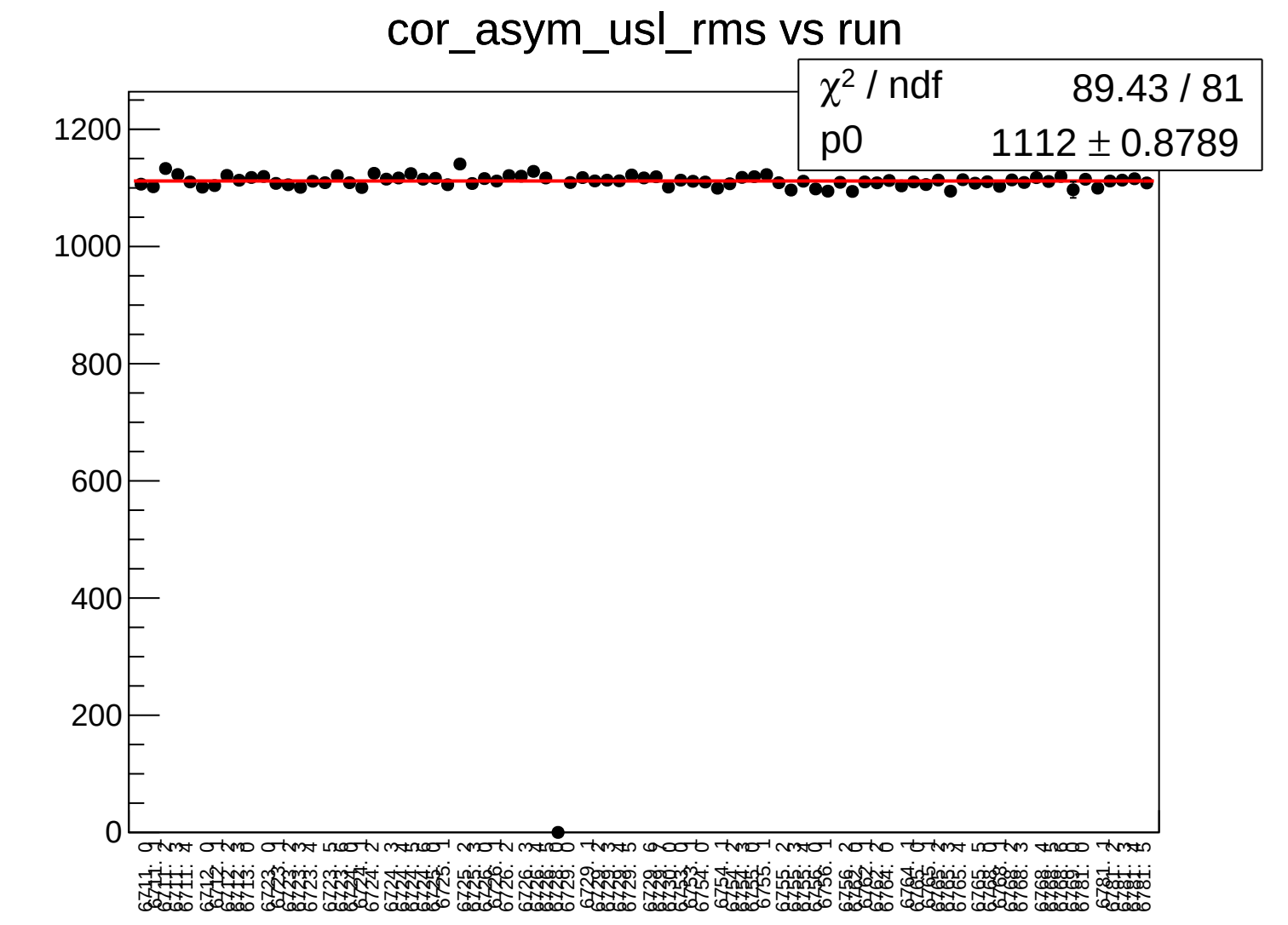

cor_asym_us_dd_mean vs run
χ² / ndf 90.12 / 81
p0 1307 ± 872.1
30000
20000
10000
0
−10000
−20000
−30000

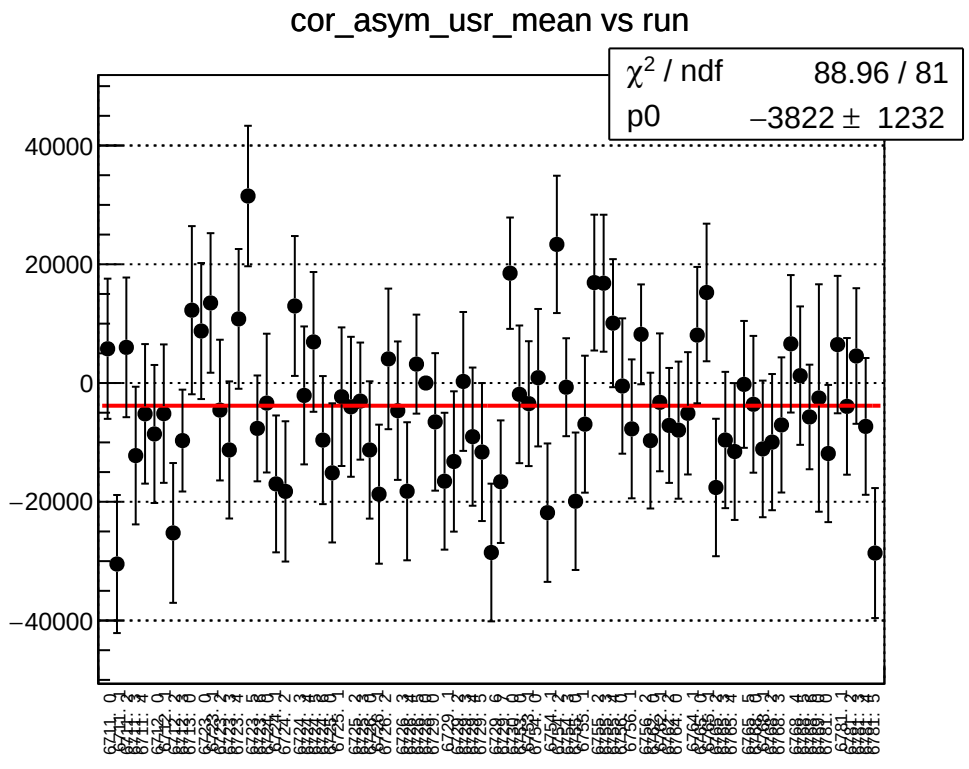

pull1D
Entries 83
Mean 0.007134
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

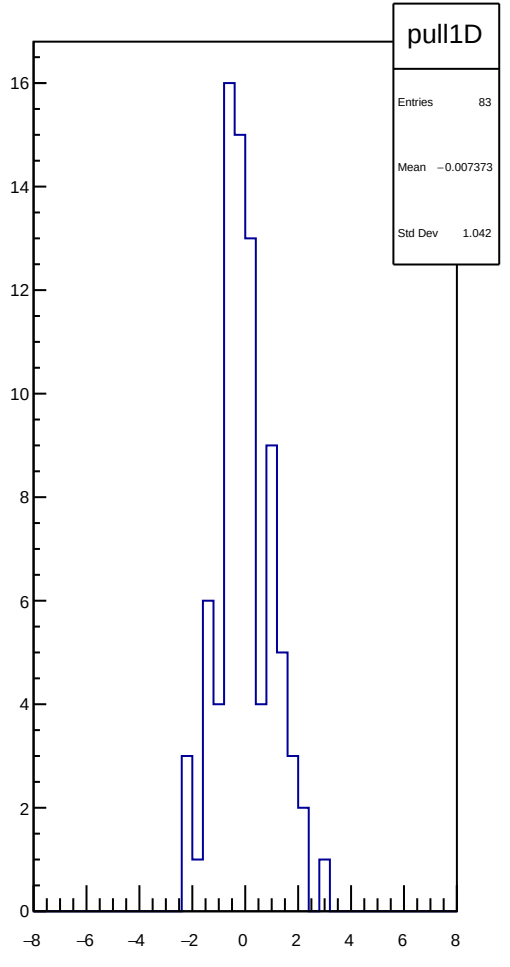

cor_asym_us_dd_rms vs run
χ² / ndf 82.45 / 81
p0 780.1 ± 0.6167
800
700
600
500
400
300
200
100
0

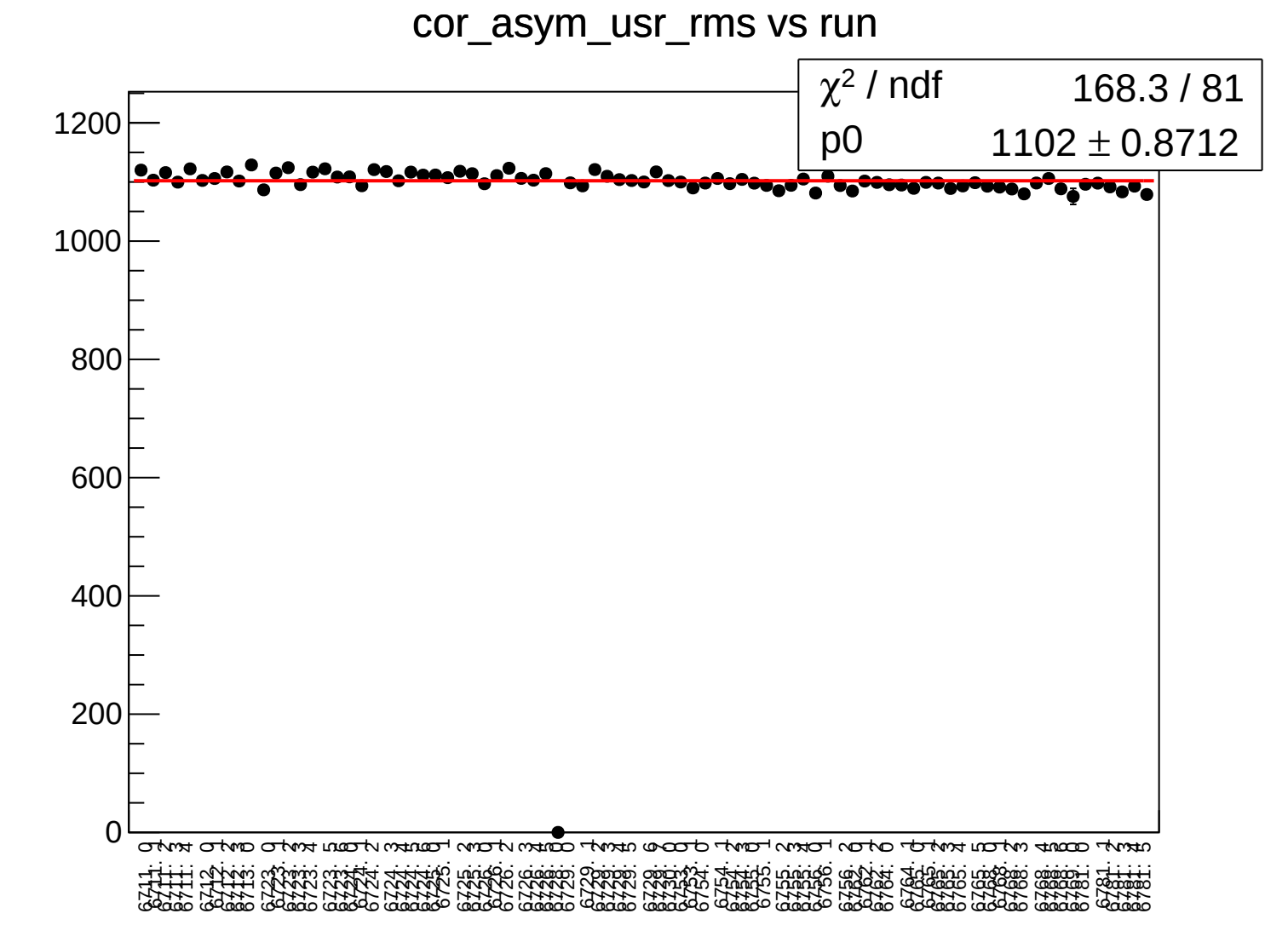

cor_asym_usl_mean vs run
χ² / ndf 75.88 / 81
p0 −1167 ± 1243
40000
20000
0
−20000
−40000

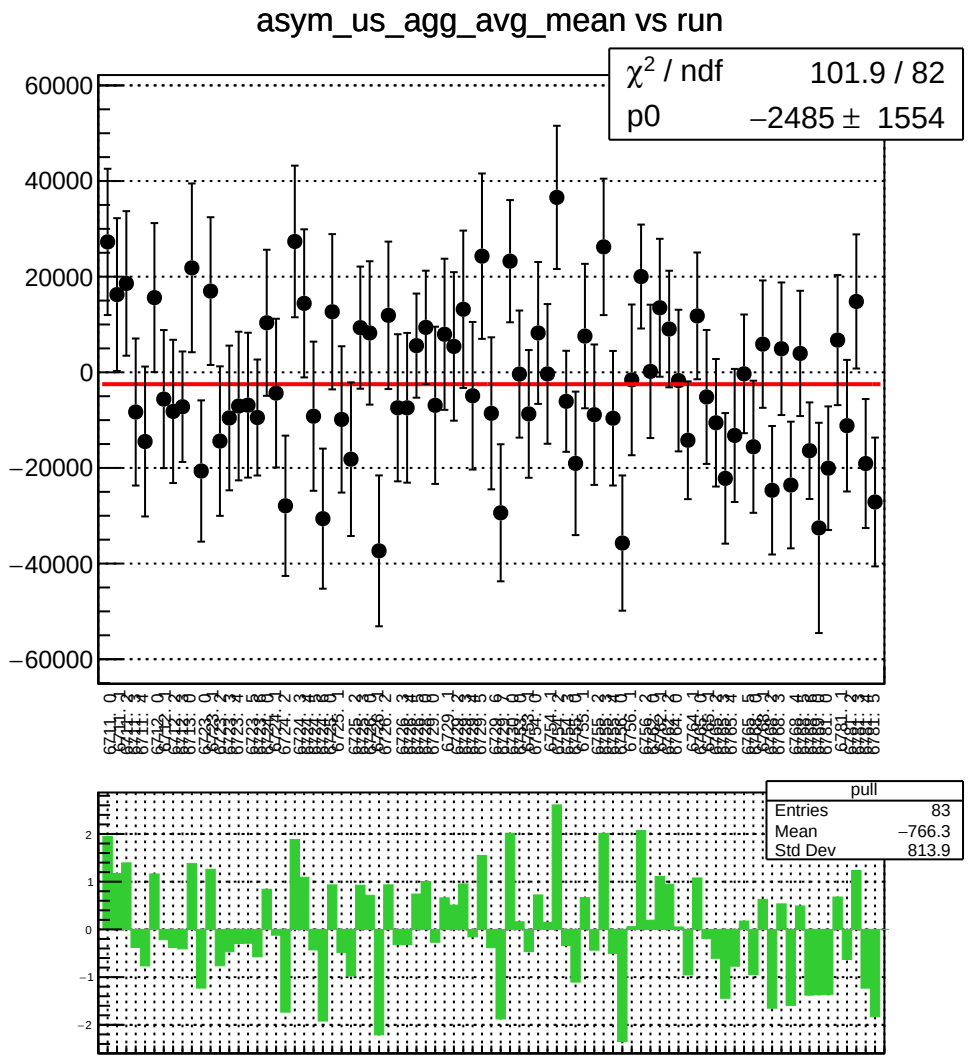

pull1D
Entries 83
Mean 0.0008179
Std Dev 0.962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

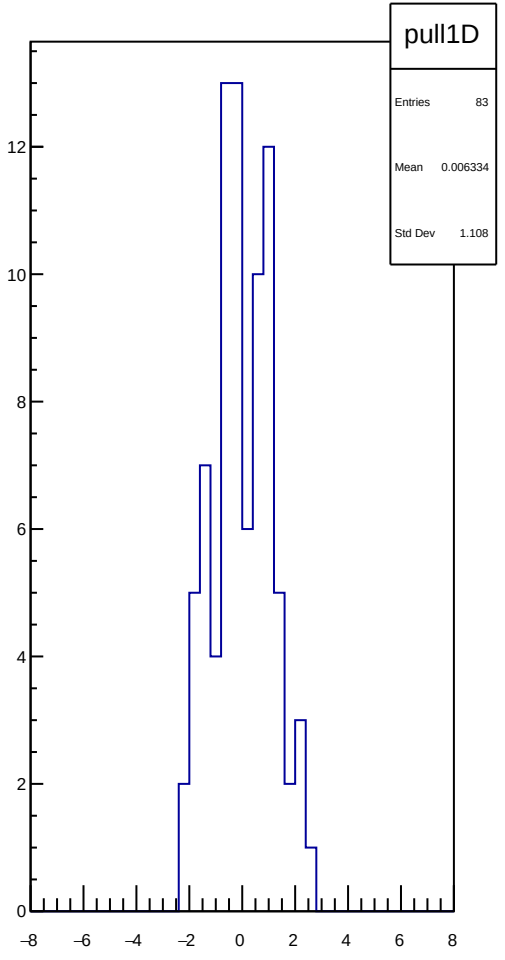

cor_asym_usl_rms vs run
χ² / ndf 89.43 / 81
p0 1112 ± 0.8789
1200
1000
800
600
400
200
0

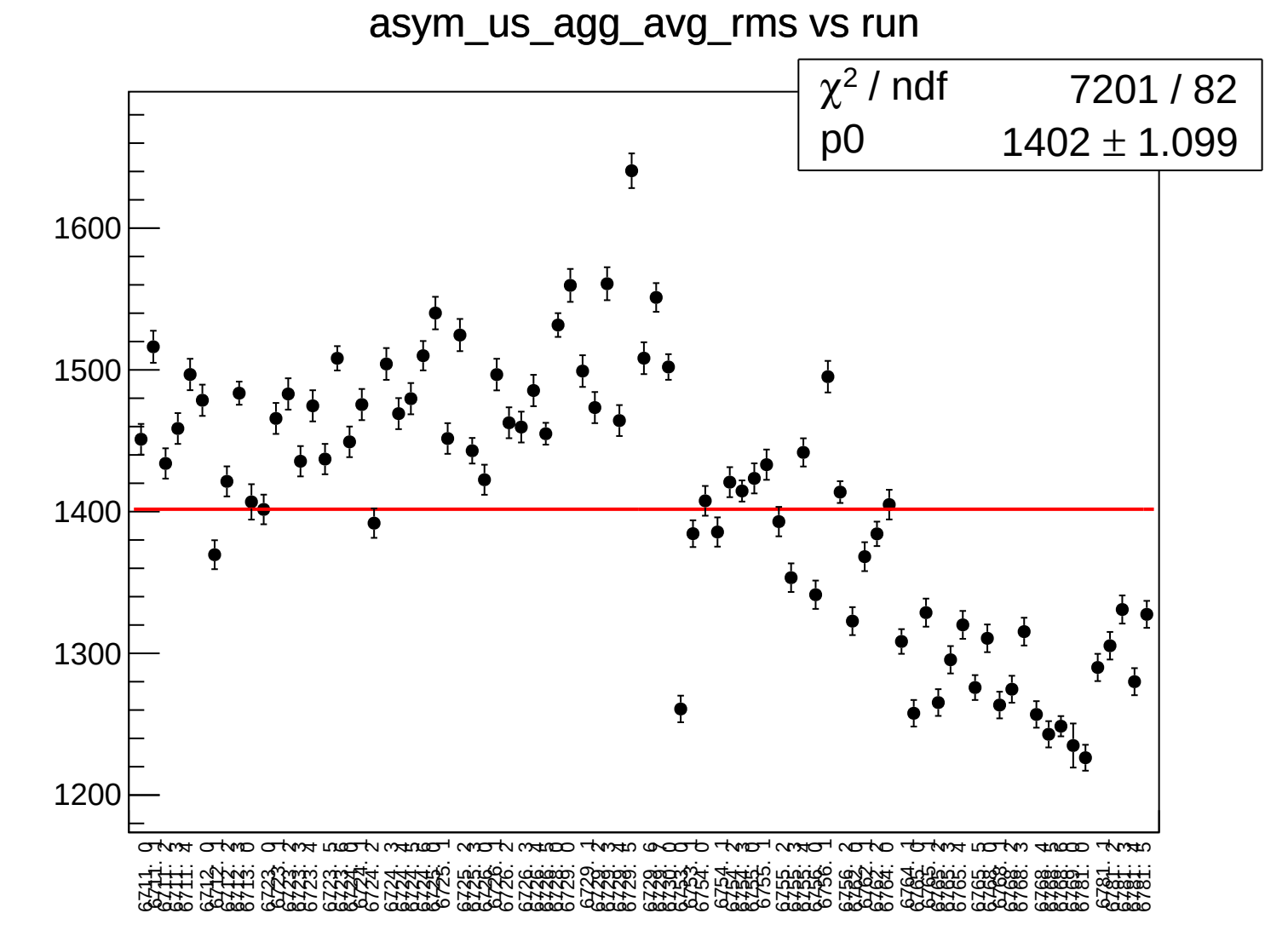

cor_asym_usr_mean vs run
χ² / ndf 88.96 / 81
p0 −3822 ± 1232
40000
20000
0
−20000
−40000

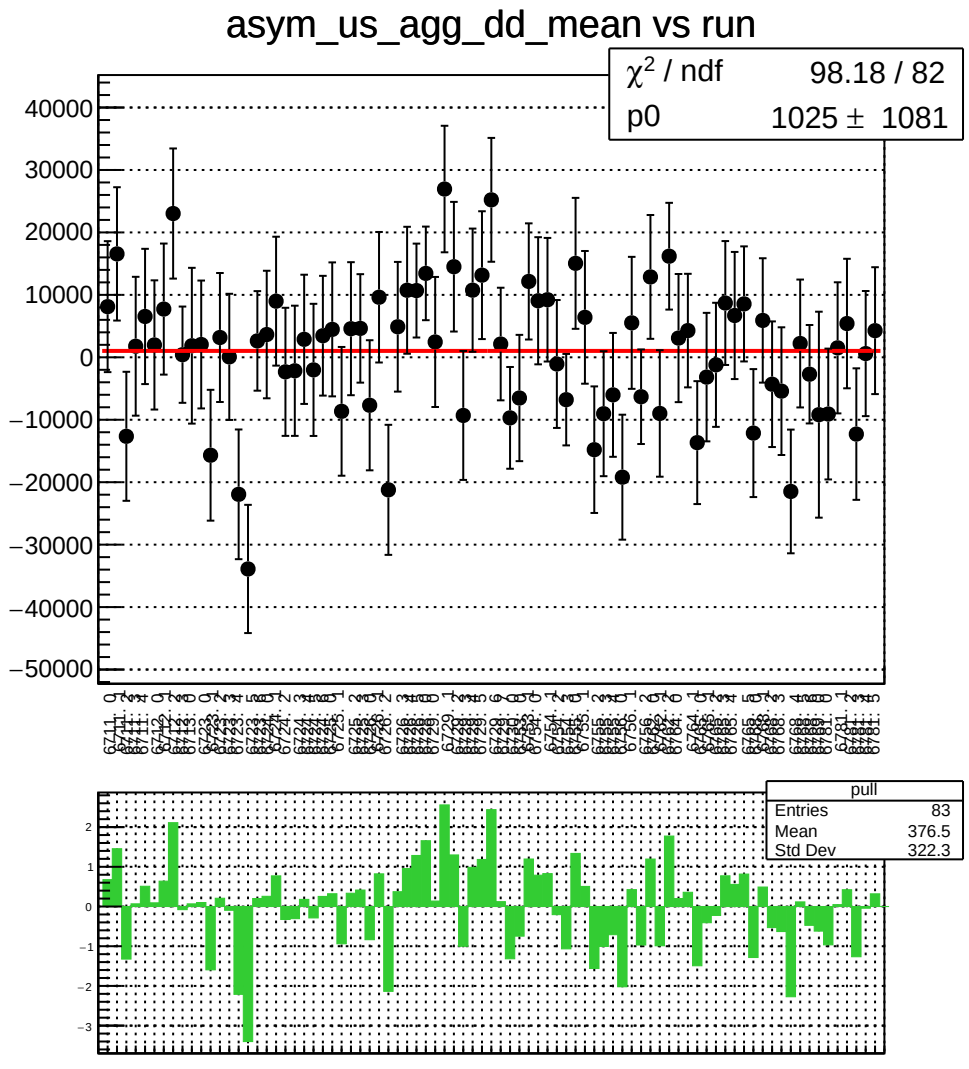

pull1D
Entries 83
Mean −0.007373
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

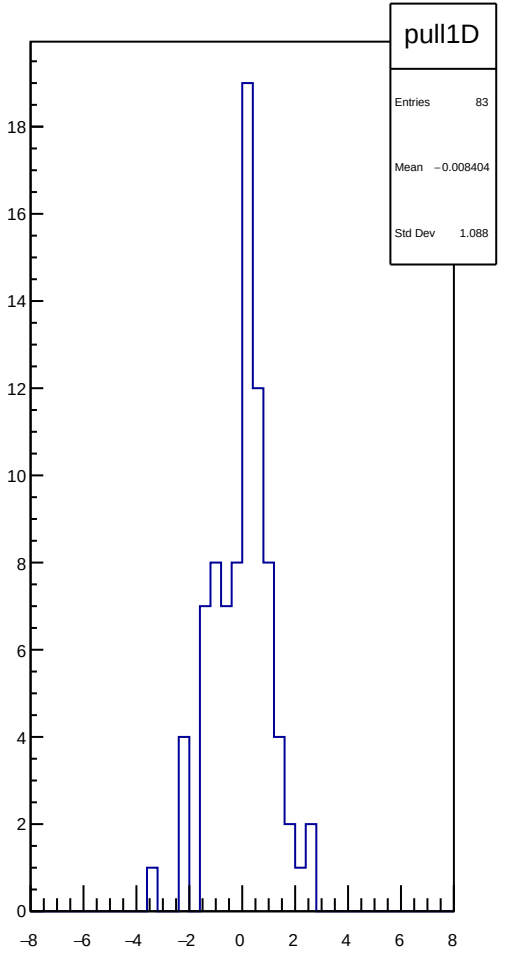

cor_asym_usr_rms vs run
χ² / ndf 168.3 / 81
p0 1102 ± 0.8712
1200
1000
800
600
400
200
0

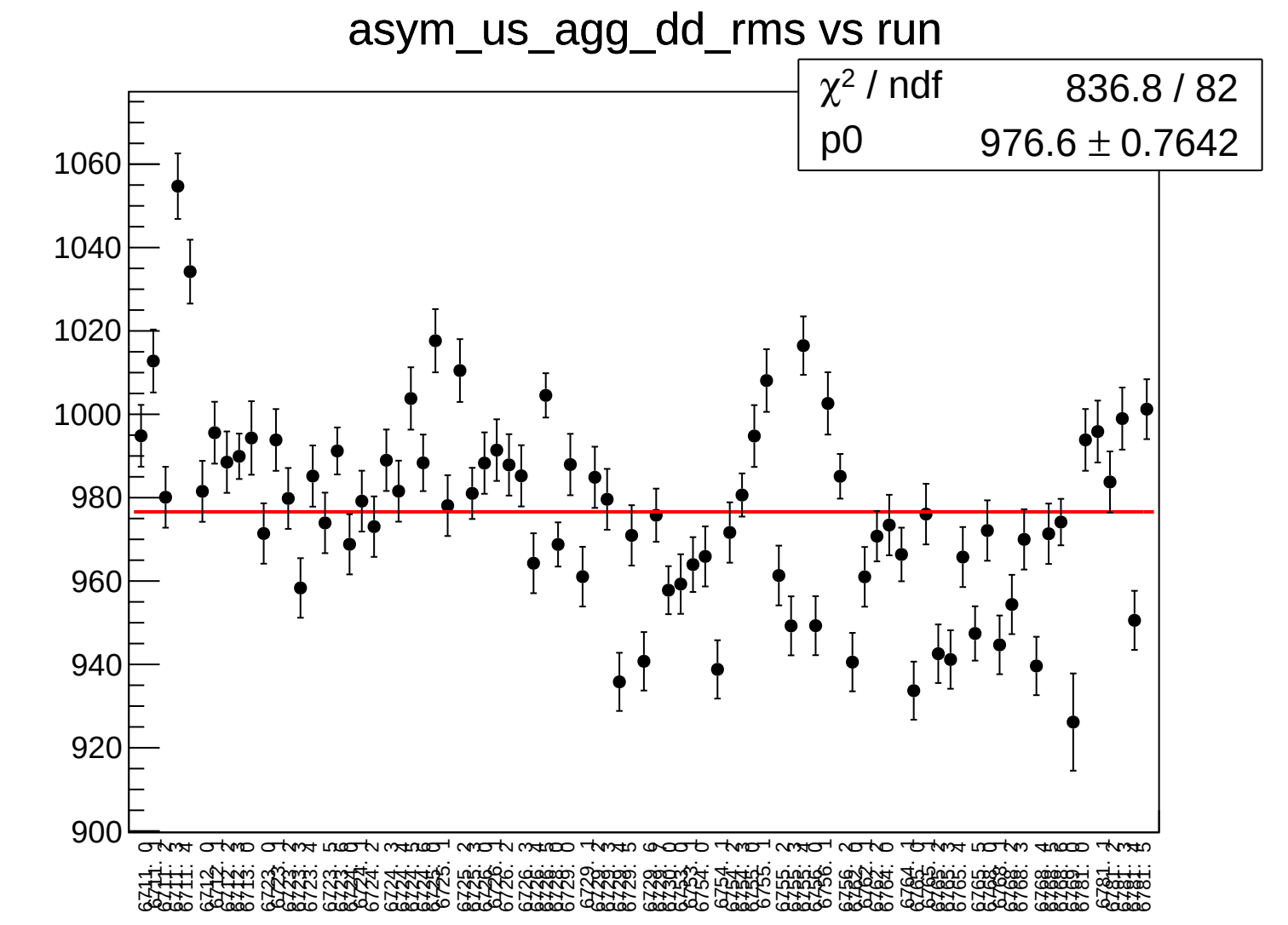

asym_us_agg_avg_mean vs run
χ² / ndf 101.9 / 82
p0 −2485 ± 1554
pull
Entries 83
Mean −766.3
Std Dev 813.9

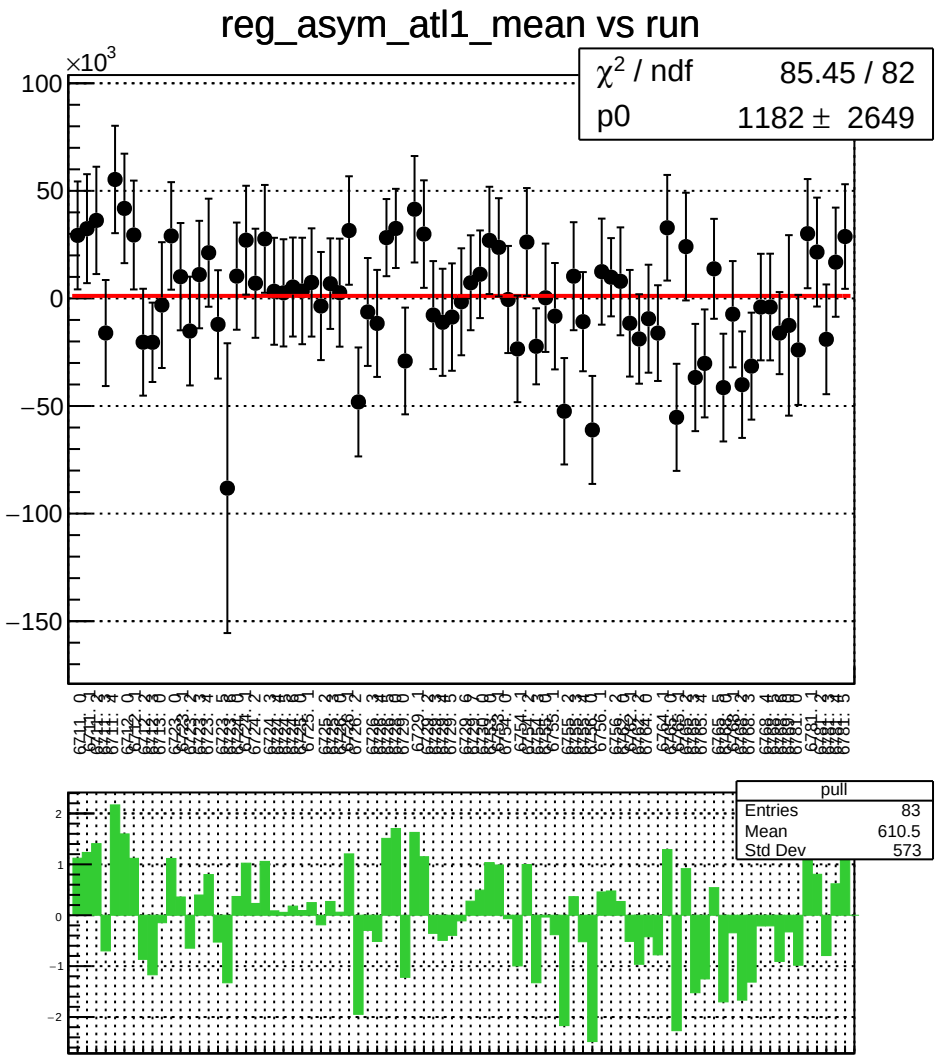

pull1D
Entries 83
Mean 0.006334
Std Dev 1.108

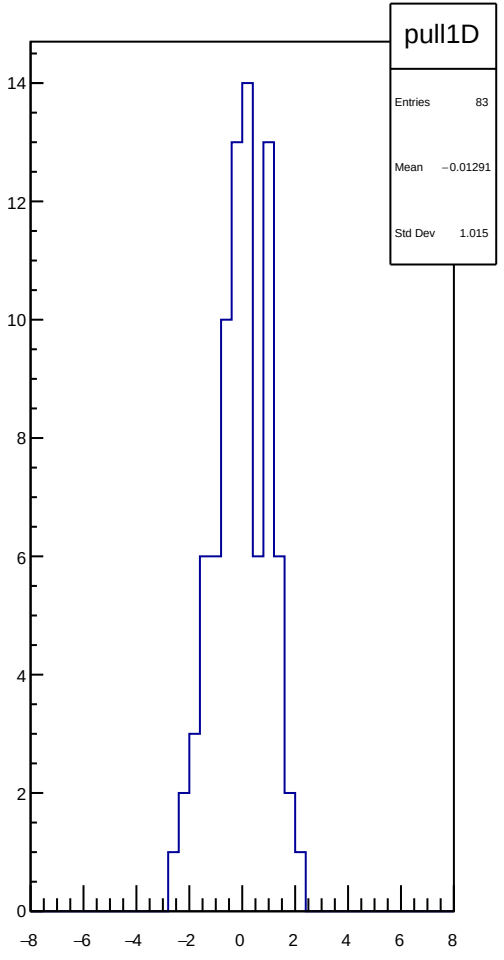

asym_us_agg_avg_rms vs run
χ^2 / ndf 7201 / 82
p0 1402 ± 1.099
1600
1500
1400
1300
1200

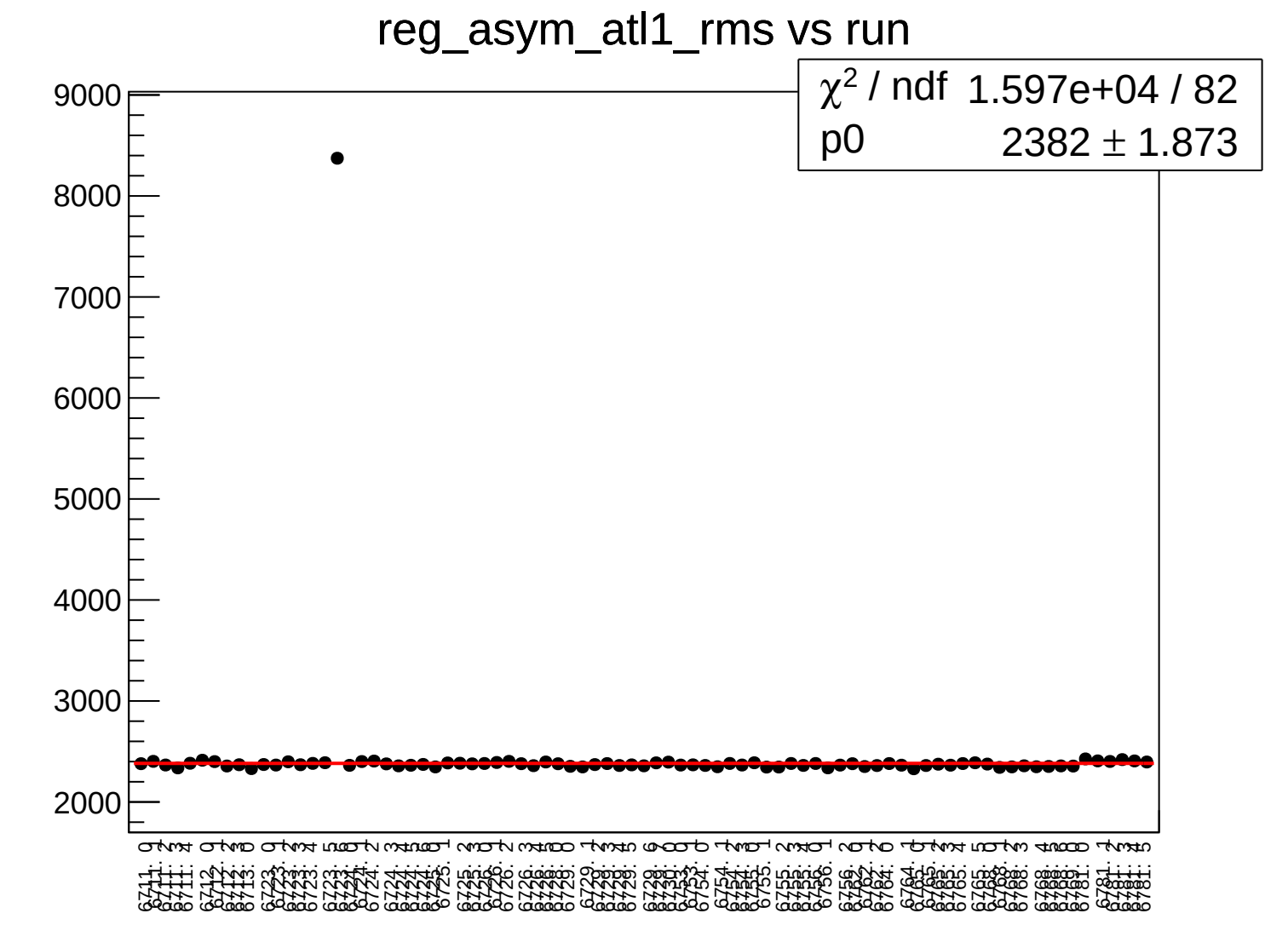

asym_us_agg_dd_mean vs run
χ² / ndf 98.18 / 82
p0 1025 ± 1081
pull
Entries 83
Mean 376.5
Std Dev 322.3

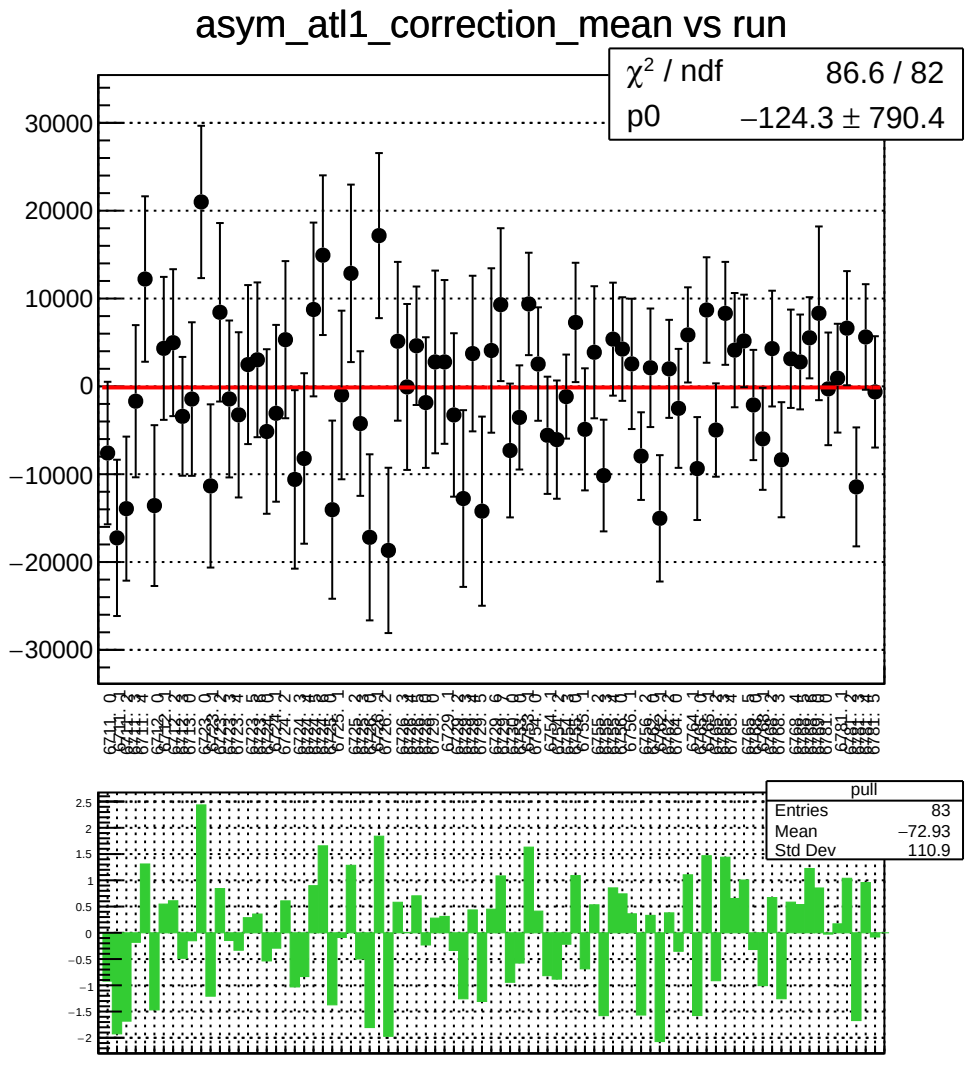

pull1D
Entries 83
Mean −0.008404
Std Dev 1.088

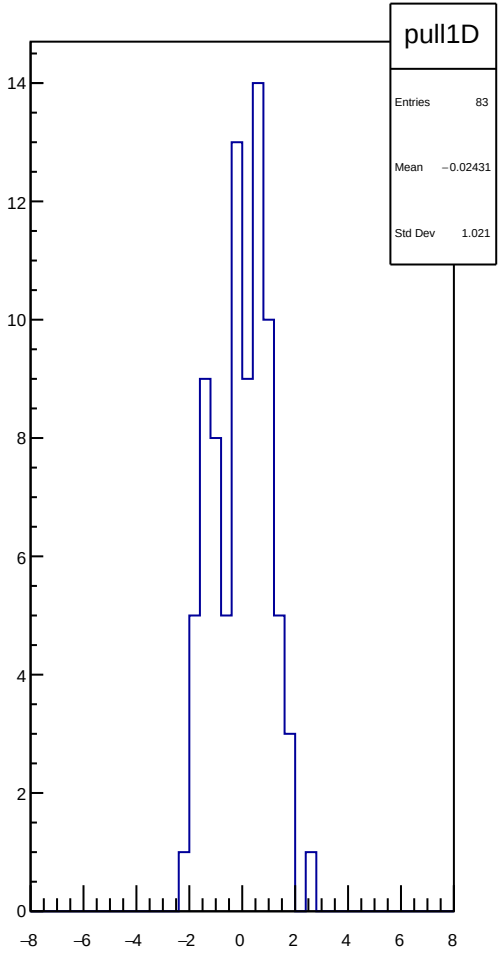

asym_us_agg_dd_rms vs run
χ² / ndf 836.8 / 82
p0 976.6 ± 0.7642
1060
1040
1020
1000
980
960
940
920
900

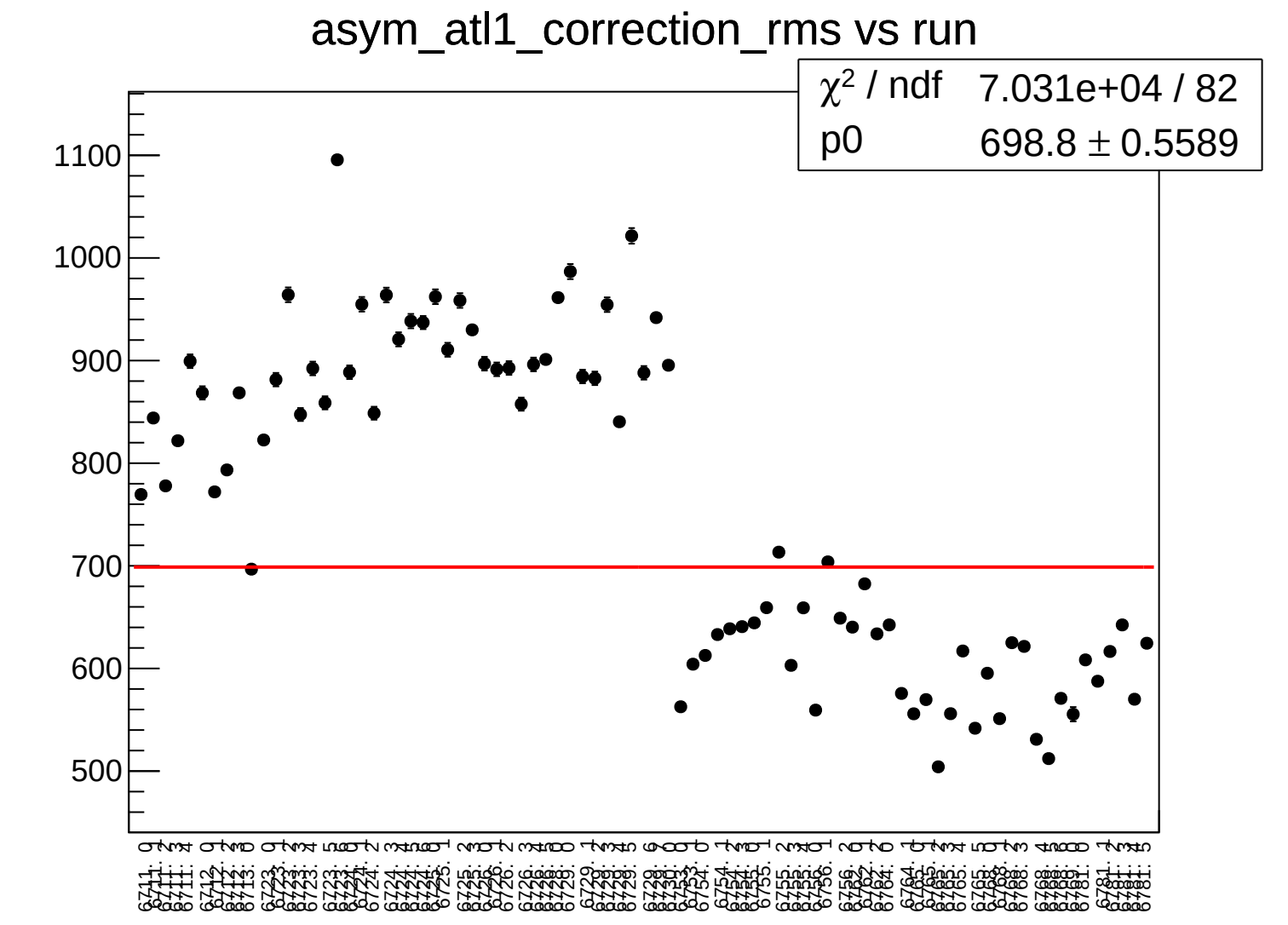

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 85.45 / 82
p0 1182 ± 2649
pull
Entries 83
Mean 610.5
Std Dev 573

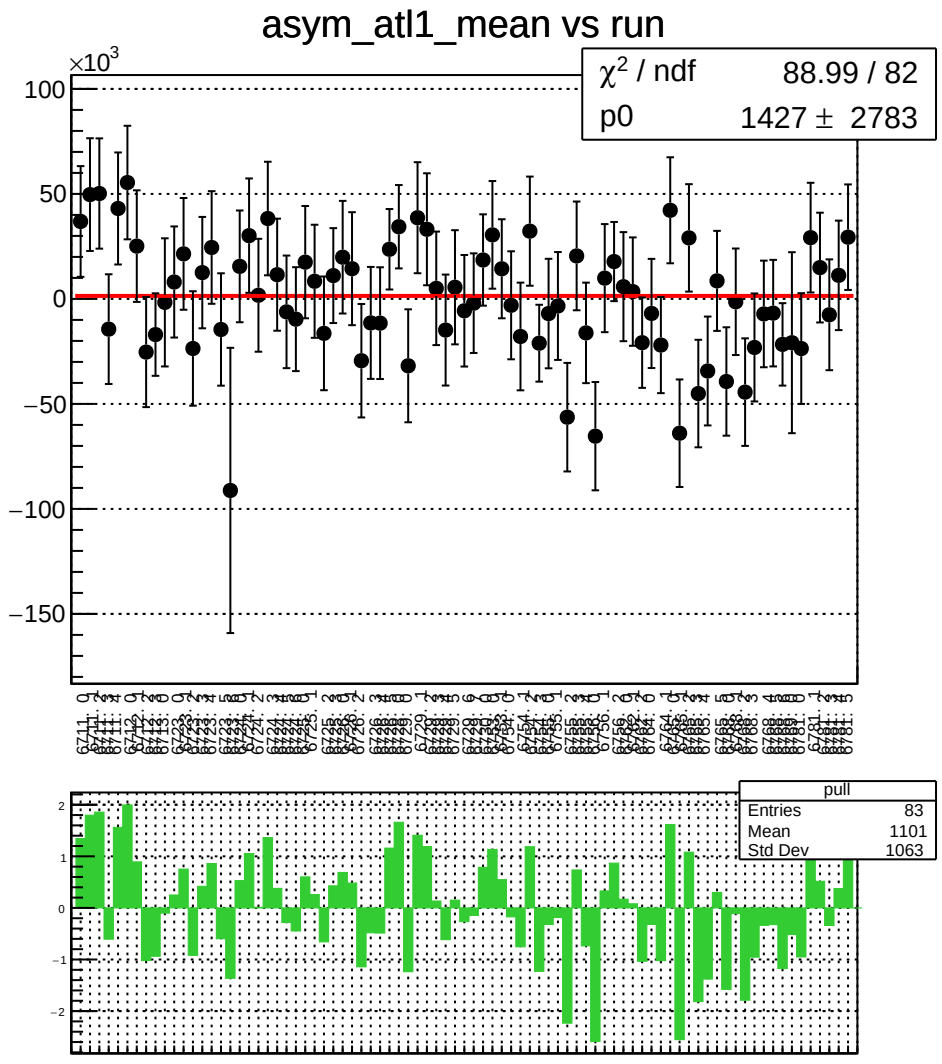

pull1D
Entries 83
Mean −0.01291
Std Dev 1.015

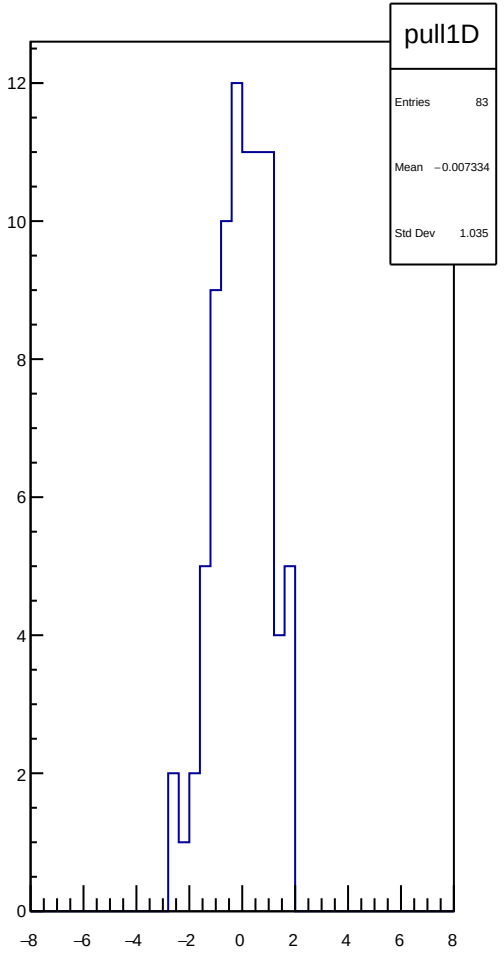

reg_asym_atl1_rms vs run
χ^2 / ndf 1.597e+04 / 82
p0 2382 ± 1.873
9000
8000
7000
6000
5000
4000
3000
2000

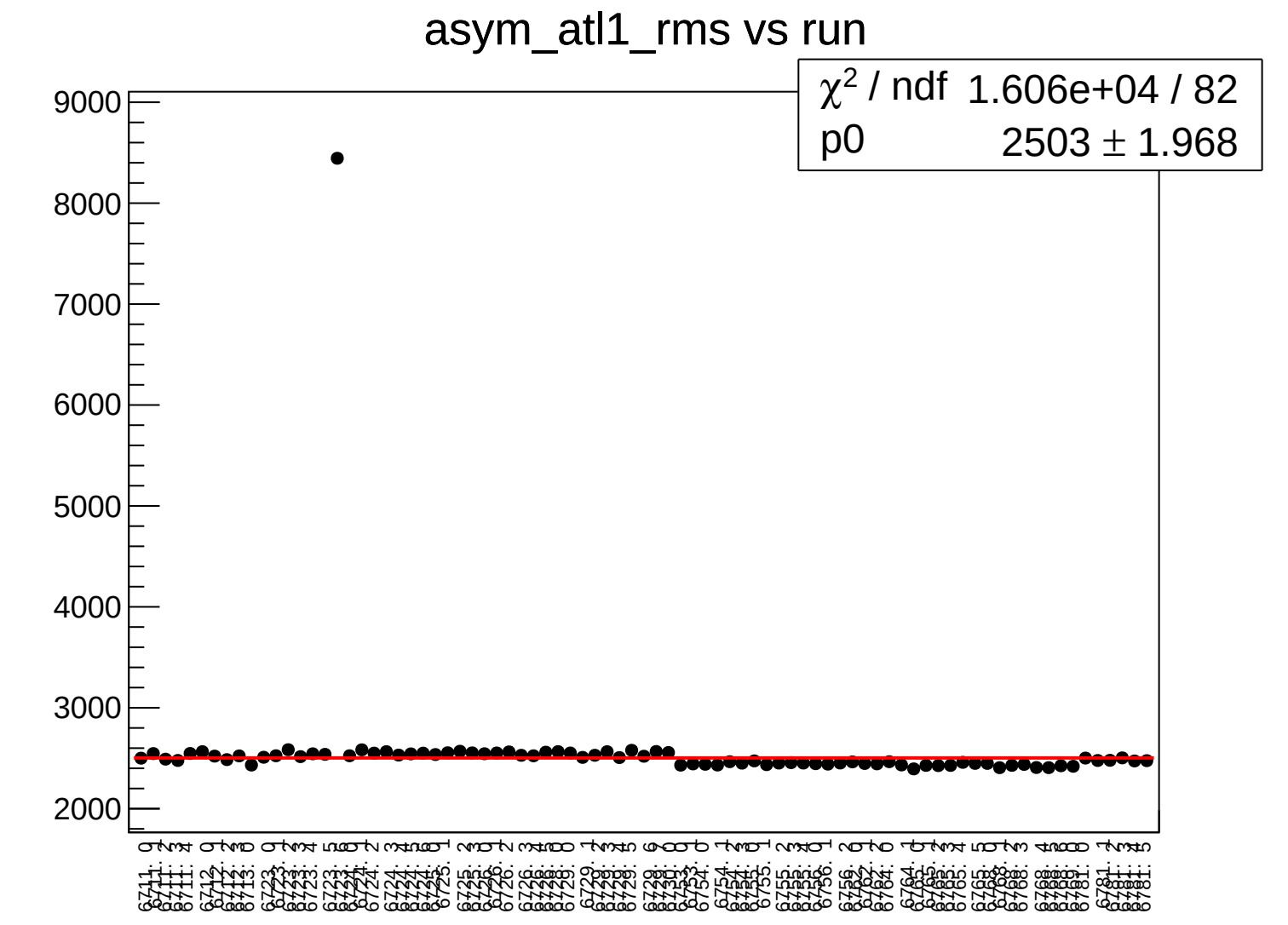

asym_atl1_correction_mean vs run
χ² / ndf 86.6 / 82
p0 −124.3 ± 790.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean −72.93
Std Dev 110.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

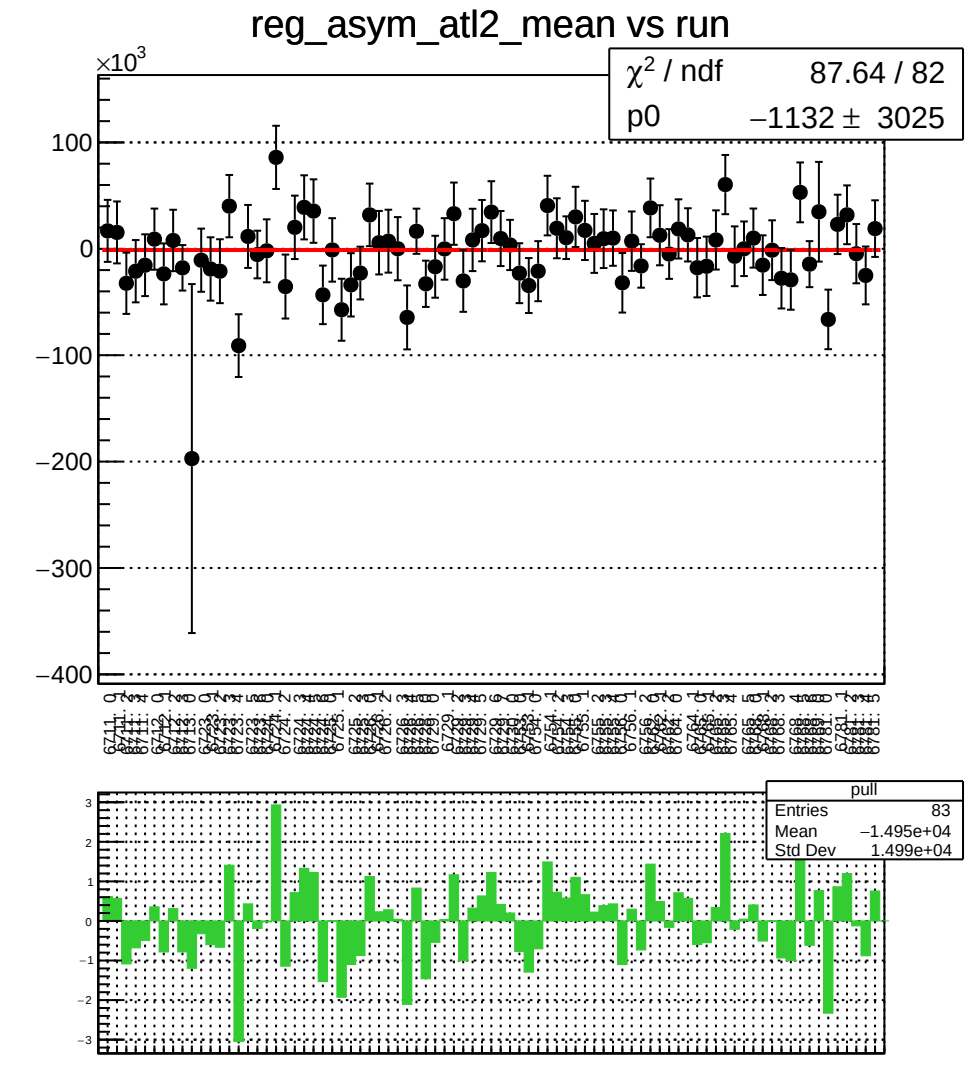

pull1D
Entries 83
Mean −0.02431
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

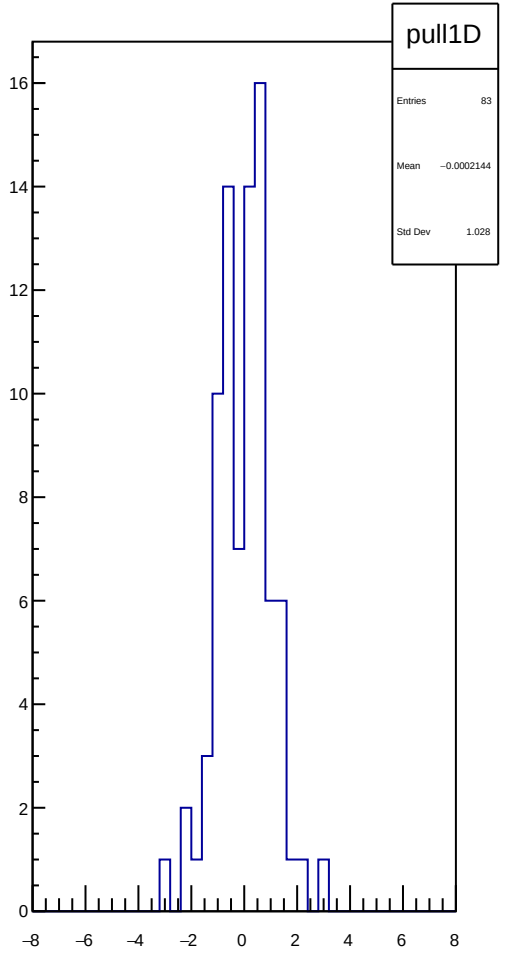

asym_atl1_correction_rms vs run
χ² / ndf 7.031e+04 / 82
p0 698.8 ± 0.5589
1100
1000
900
800
700
600
500

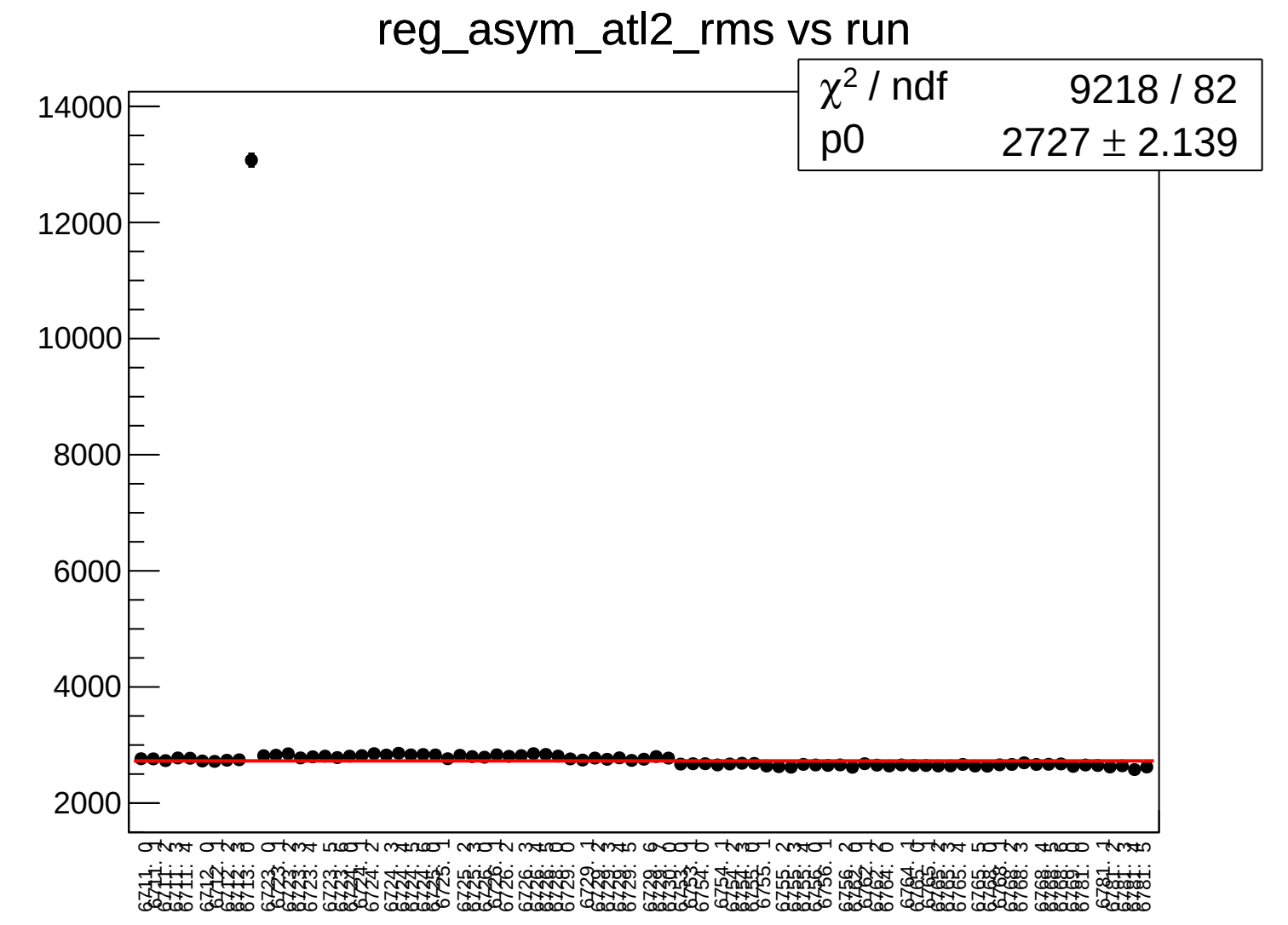

asym_atl1_mean vs run
×10^3
χ^2 / ndf 88.99 / 82
p0 1427 ± 2783
100
50
0
−50
−100
−150
pull
Entries 83
Mean 1101
Std Dev 1063
2
1
0
−1
−2

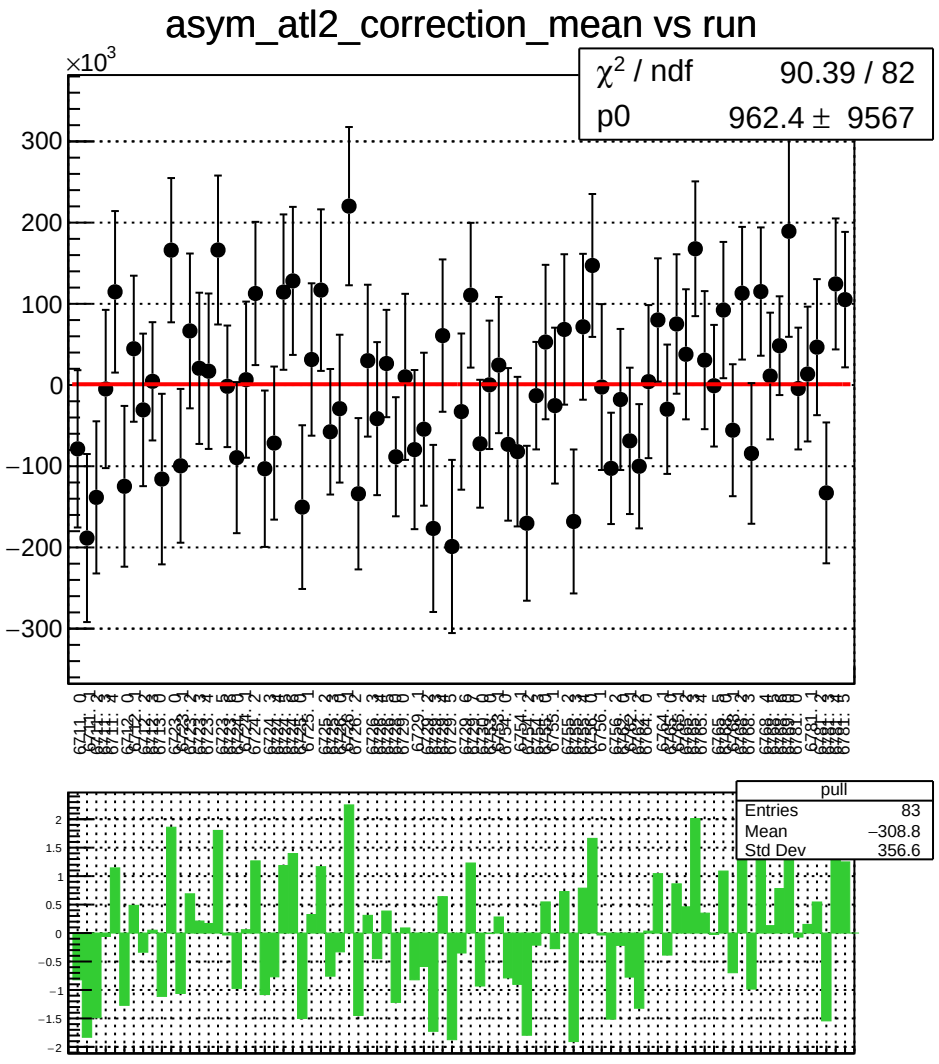

pull1D
Entries 83
Mean −0.007334
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

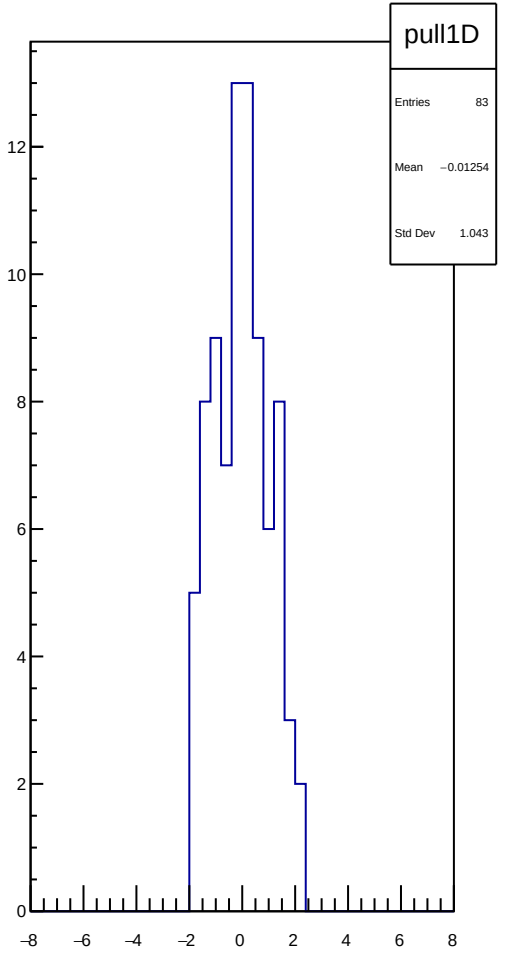

asym_atl1_rms vs run
χ² / ndf 1.606e+04 / 82
p0 2503 ± 1.968
9000
8000
7000
6000
5000
4000
3000
2000

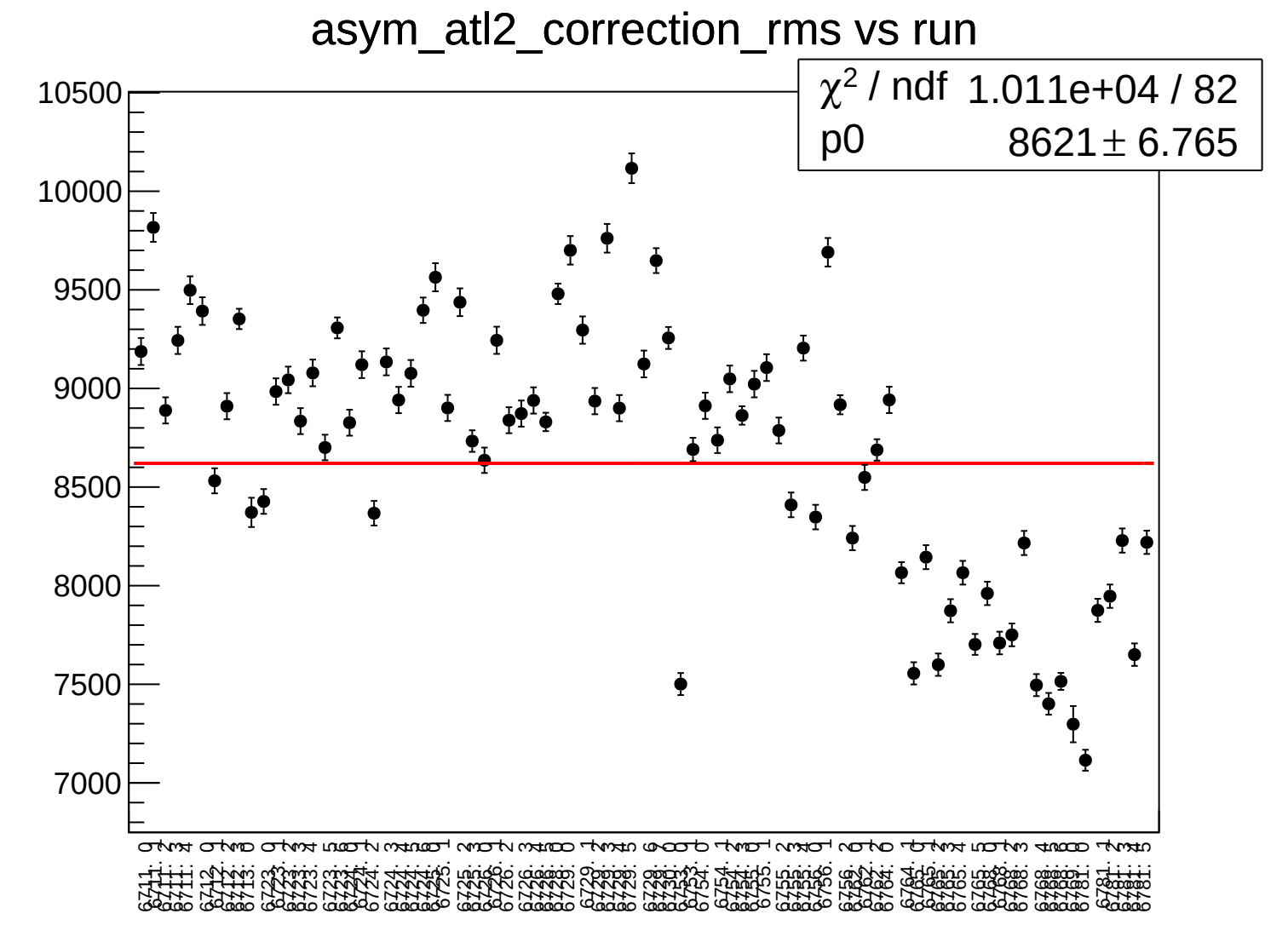

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 87.64 / 82
p0 −1132 ± 3025
100
0
−100
−200
−300
−400
pull
Entries 83
Mean −1.495e+04
Std Dev 1.499e+04
3
2
1
0
−1
−2
−3

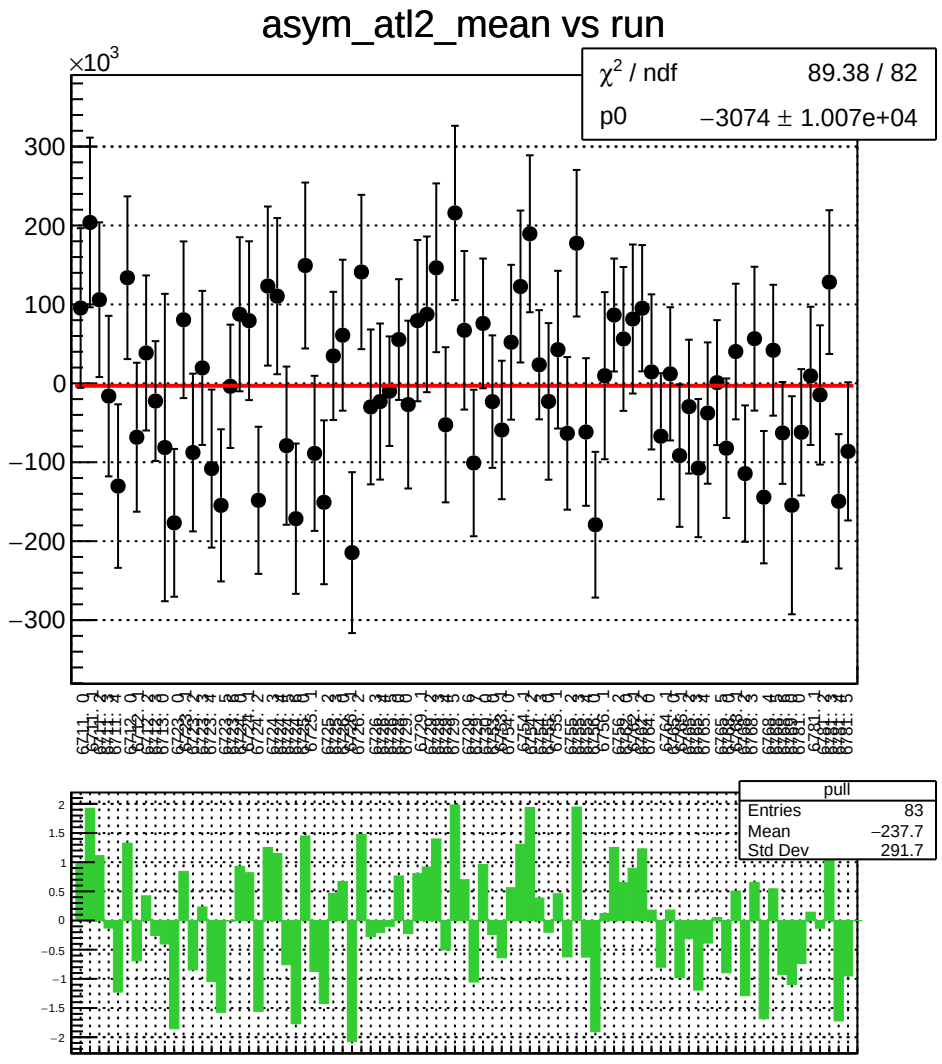

pull1D
Entries 83
Mean −0.0002144
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

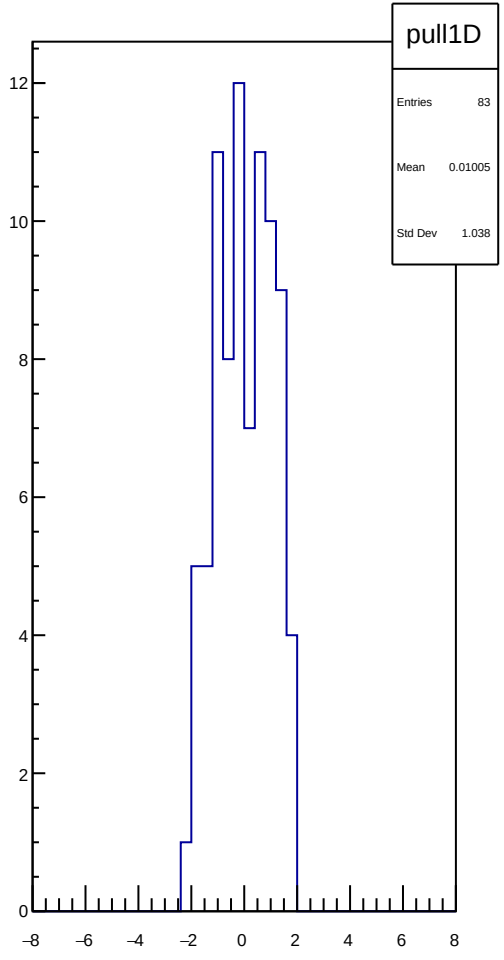

reg_asym_atl2_rms vs run
χ² / ndf 9218 / 82
p0 2727 ± 2.139
14000
12000
10000
8000
6000
4000
2000

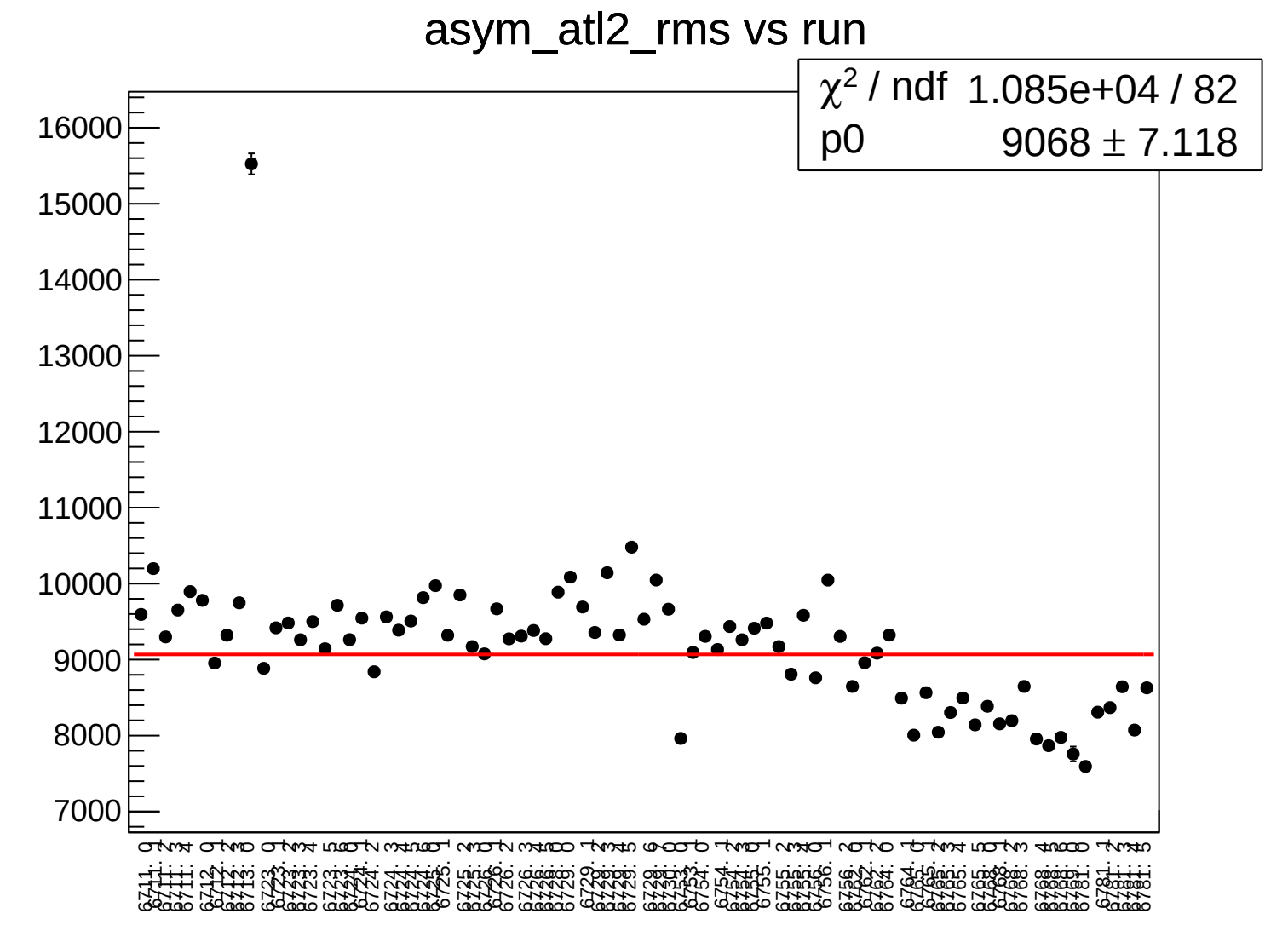

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 90.39 / 82
p0 962.4 ± 9567
pull
Entries 83
Mean −308.8
Std Dev 356.6

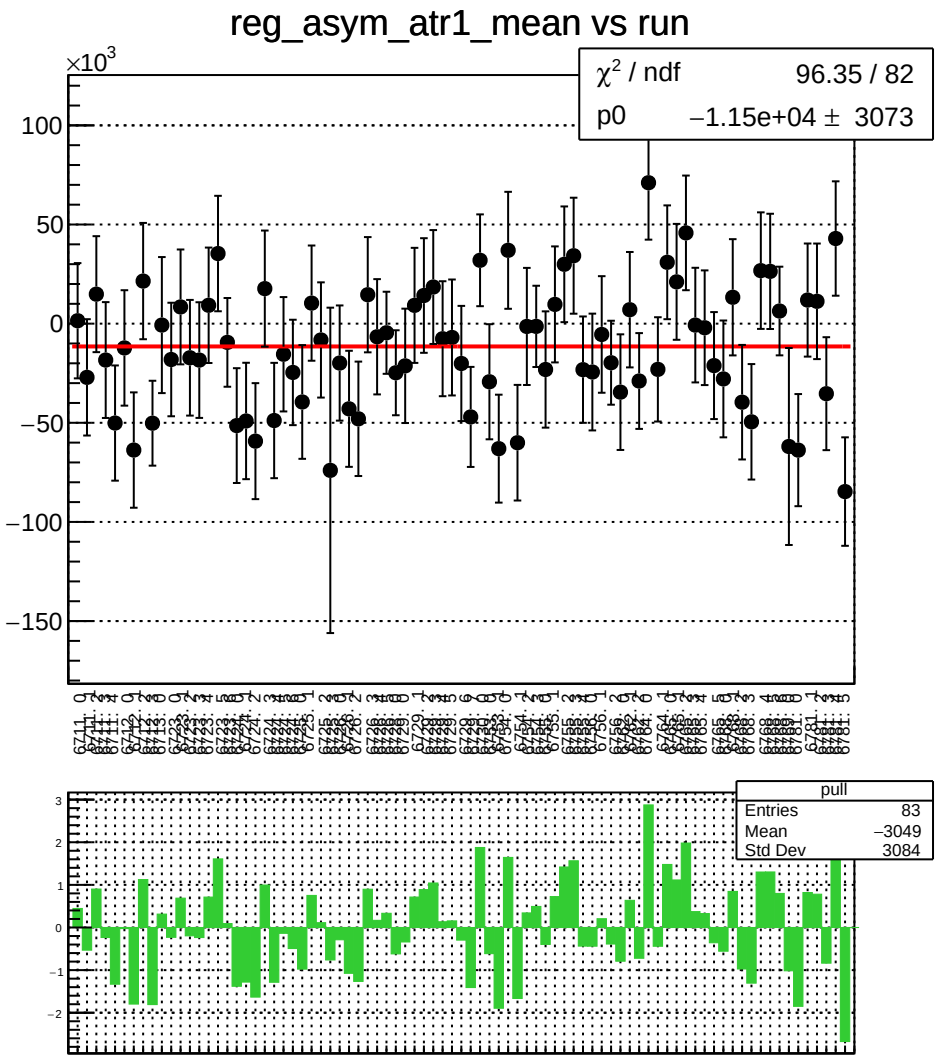

pull1D
Entries 83
Mean −0.01254
Std Dev 1.043

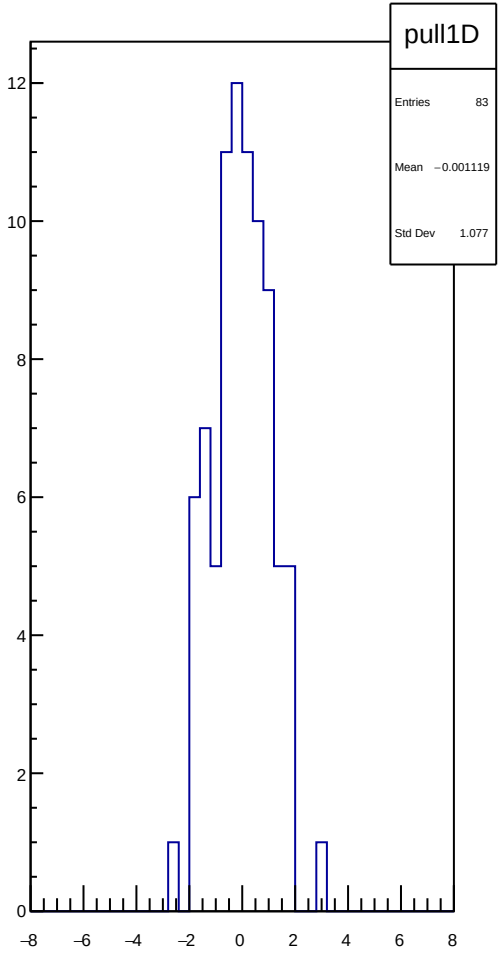

asym_atl2_correction_rms vs run
χ² / ndf 1.011e+04 / 82
p0 8621 ± 6.765
10500
10000
9500
9000
8500
8000
7500
7000

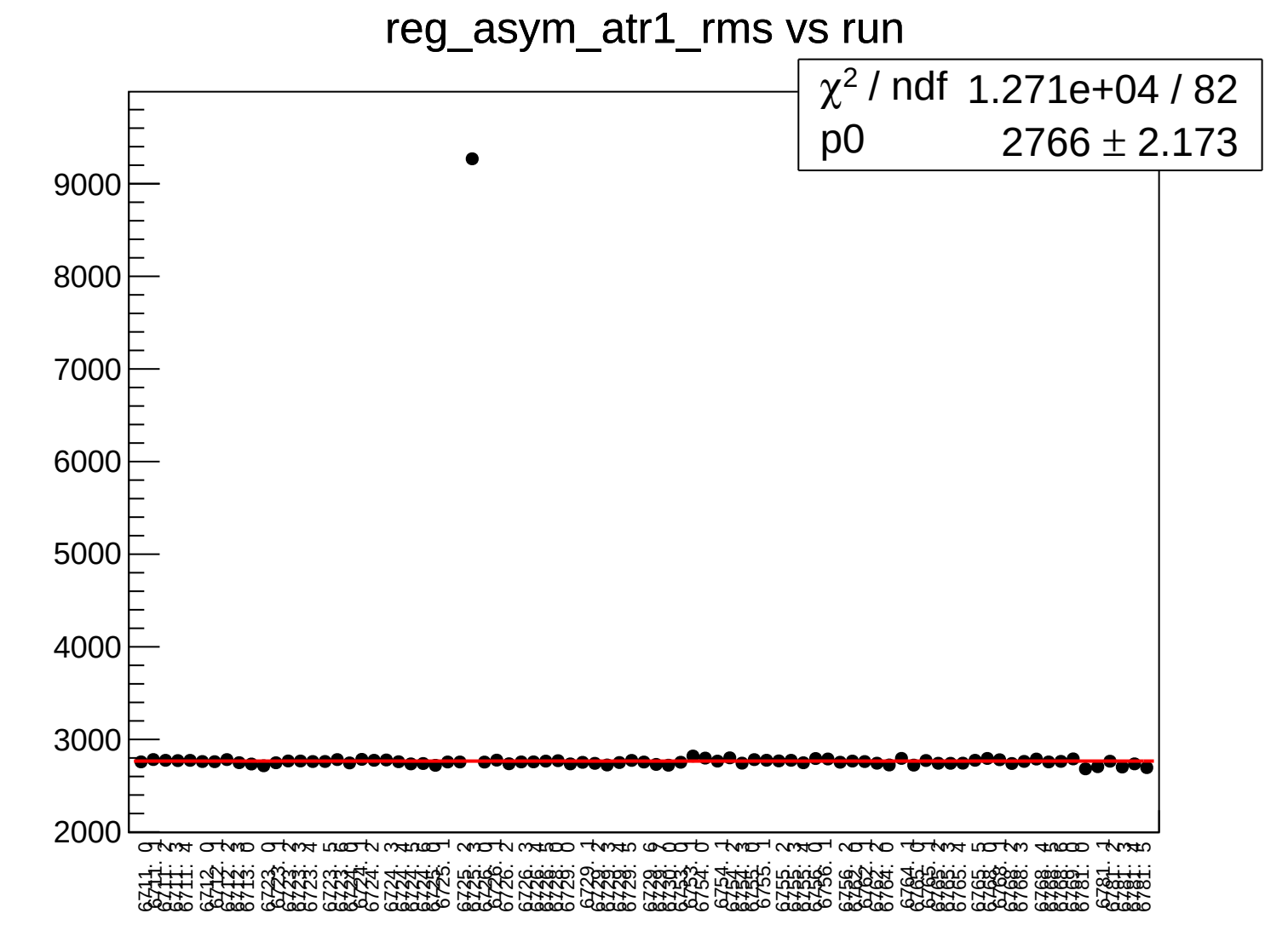

asym_atl2_mean vs run
×10^3
χ² / ndf 89.38 / 82
p0 −3074 ± 1.007e+04
300
200
100
0
−100
−200
−300
pull
Entries 83
Mean −237.7
Std Dev 291.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

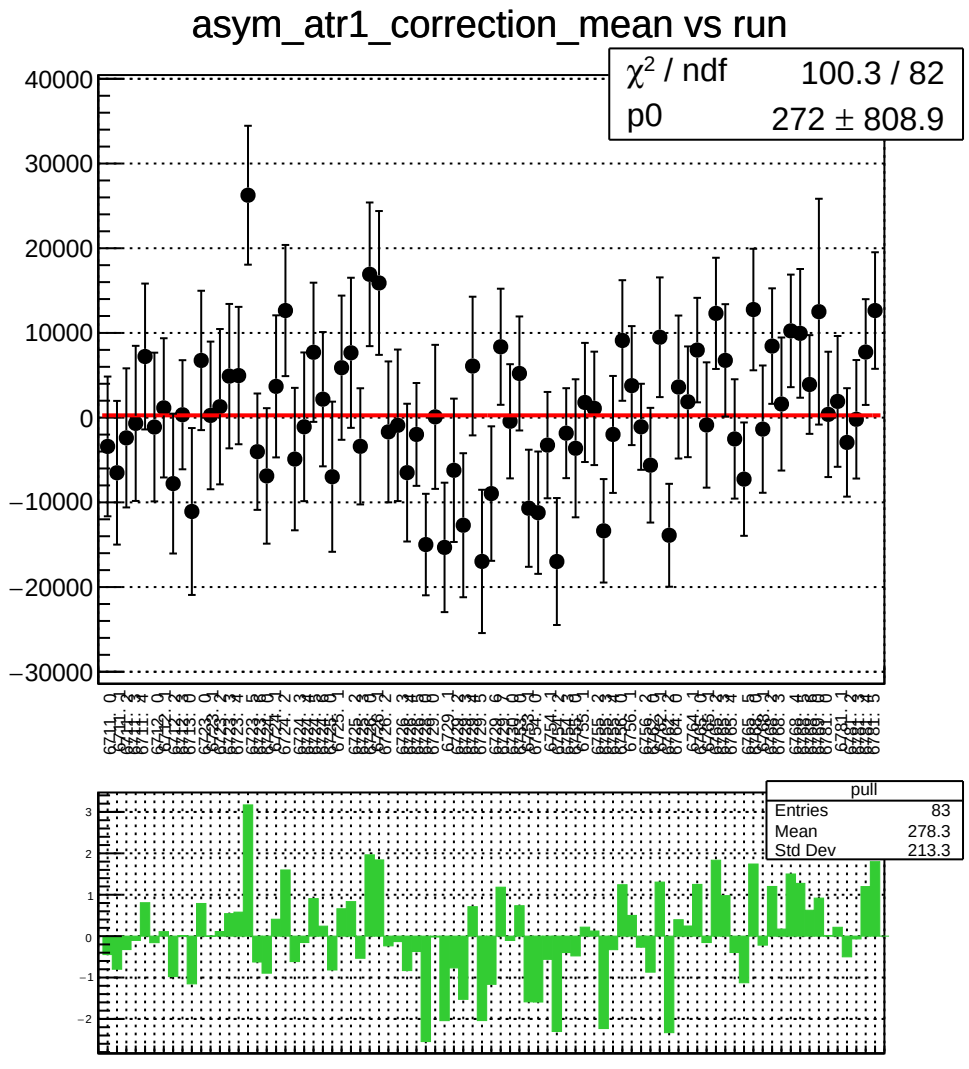

pull1D
Entries 83
Mean 0.01005
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

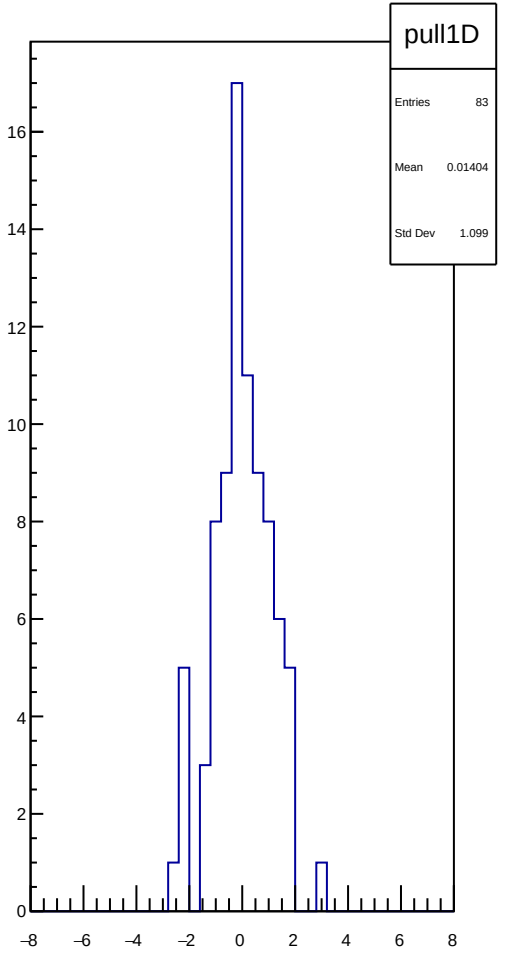

asym_atl2_rms vs run
χ² / ndf 1.085e+04 / 82
p0 9068 ± 7.118
16000
15000
14000
13000
12000
11000
10000
9000
8000
7000


reg_asym_atr1_mean vs run
×10^3
χ² / ndf 96.35 / 82
p0 −1.15e+04 ± 3073
100
50
0
−50
−100
−150
pull
Entries 83
Mean −3049
Std Dev 3084
3
2
1
0
−1
−2

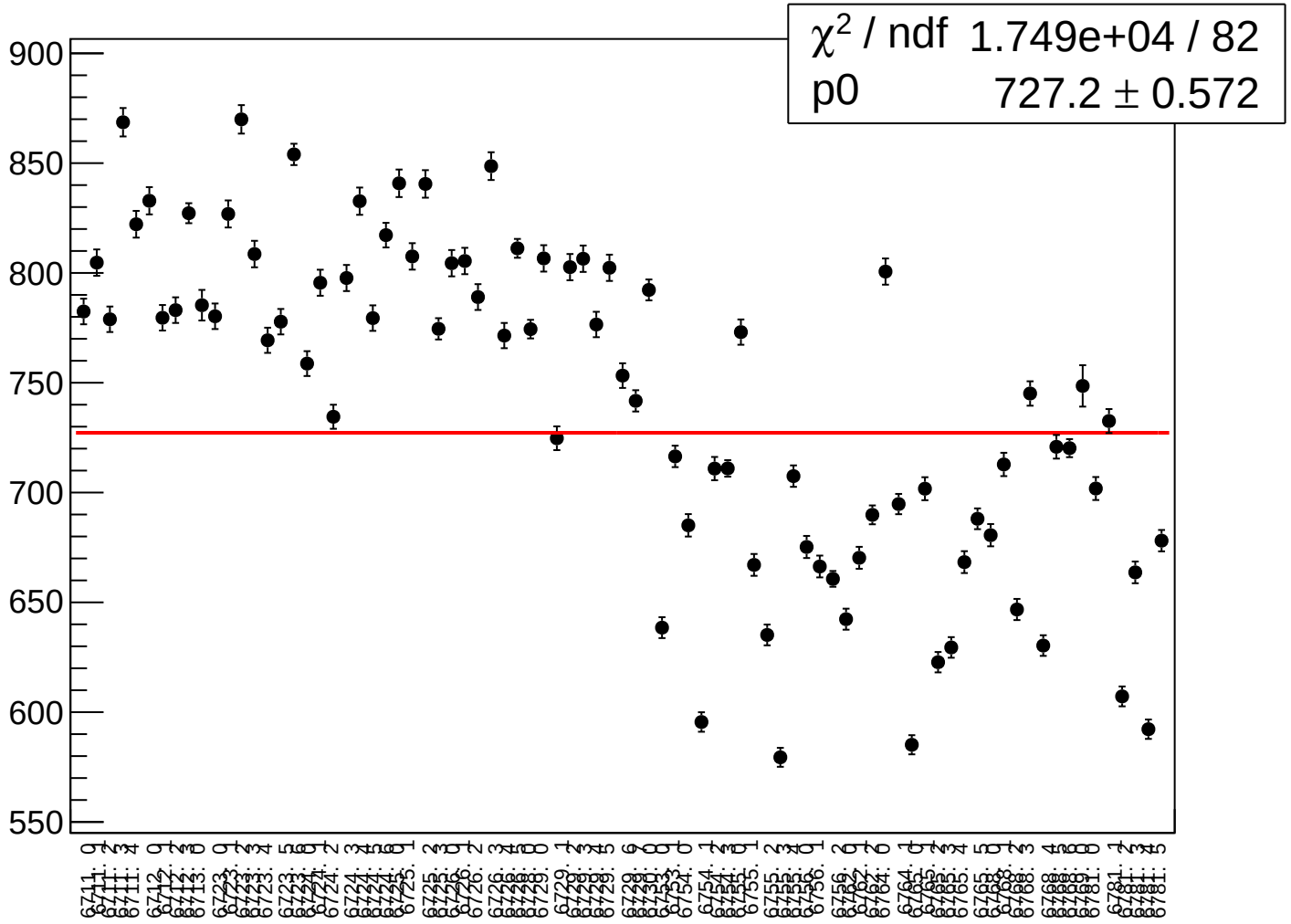

pull1D
Entries 83
Mean −0.001119
Std Dev 1.077
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

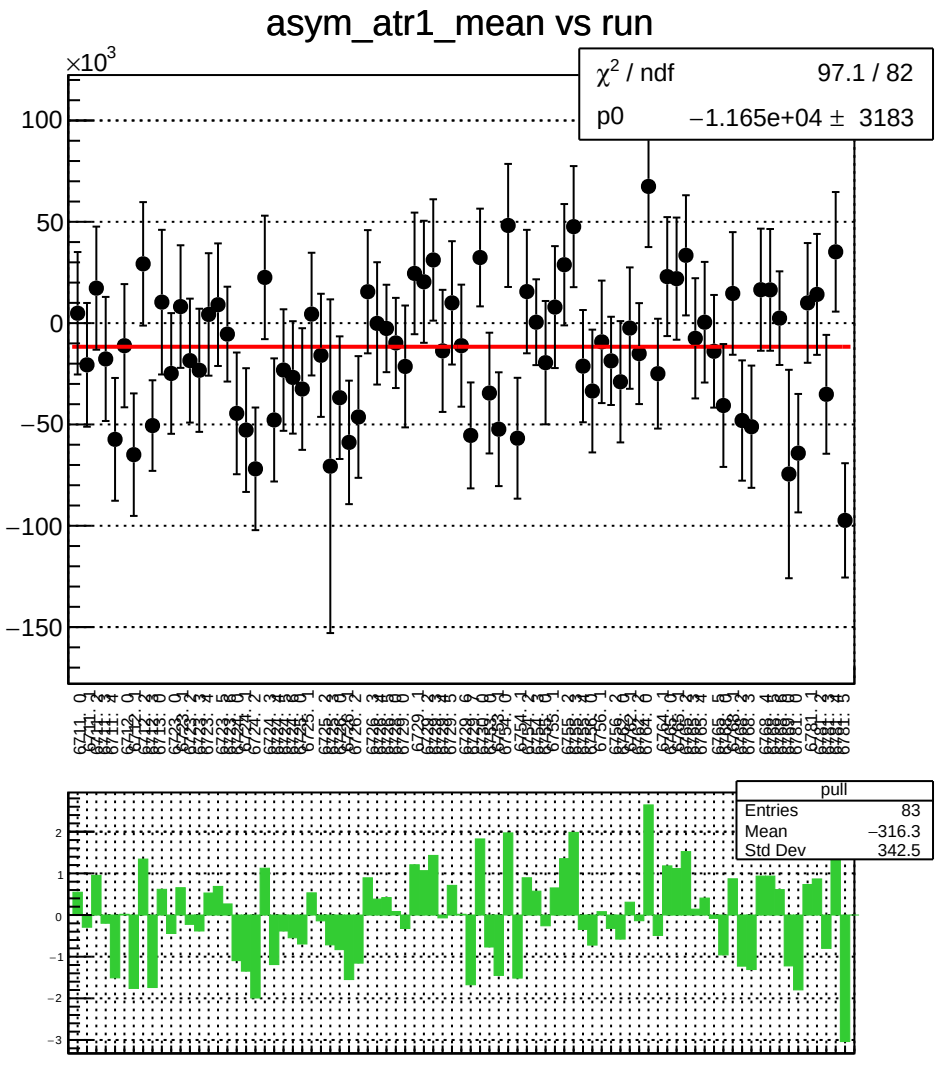

reg_asym_atr1_rms vs run
χ² / ndf 1.271e+04 / 82
p0 2766 ± 2.173
9000
8000
7000
6000
5000
4000
3000
2000

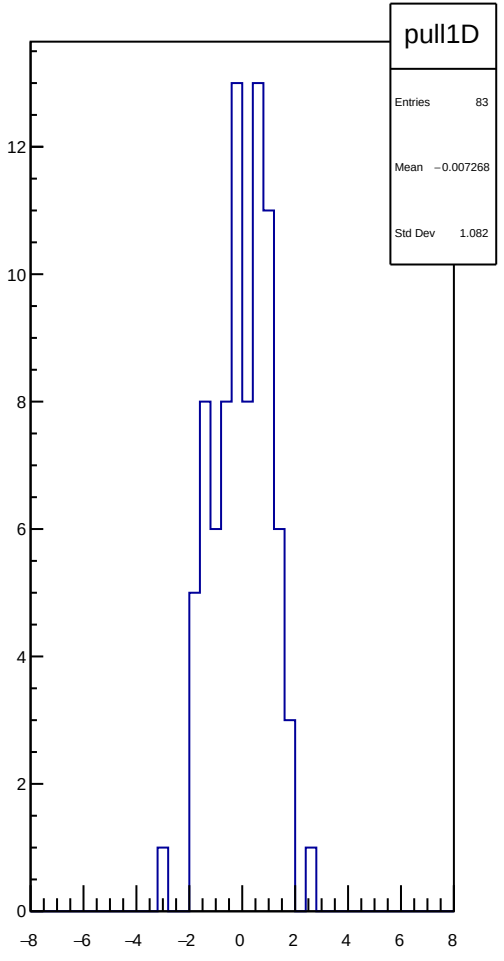

asym_atr1_correction_mean vs run
χ² / ndf 100.3 / 82
p0 272 ± 808.9
pull
Entries 83
Mean 278.3
Std Dev 213.3

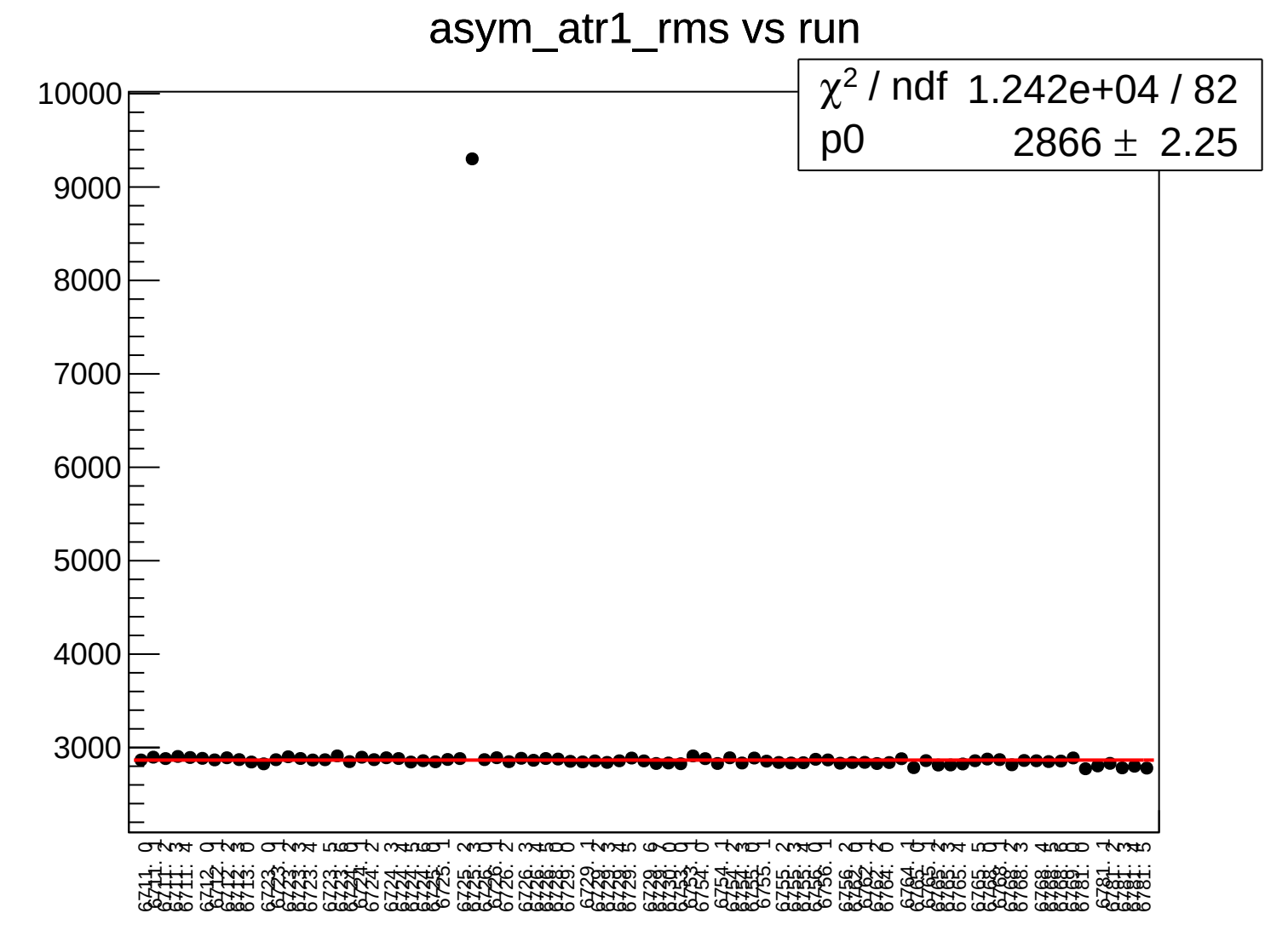

pull1D
Entries 83
Mean 0.01404
Std Dev 1.099

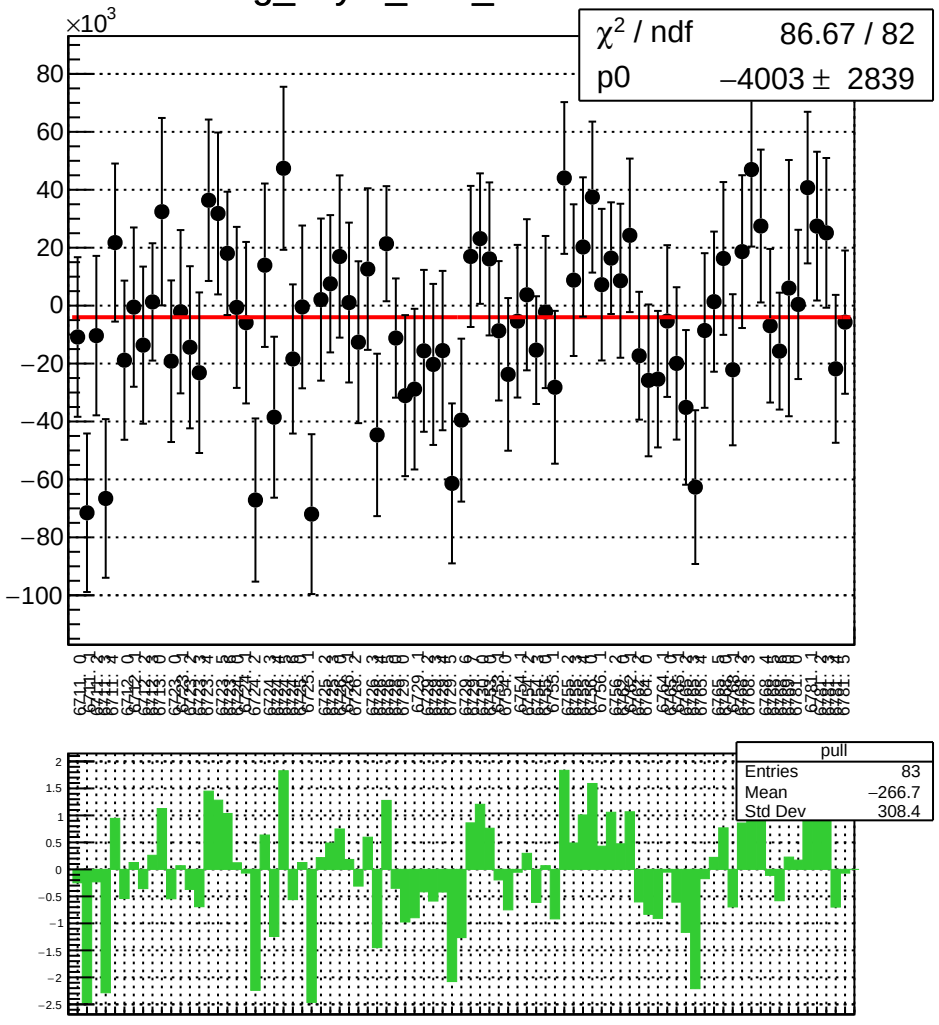
asym_atr1_correction_rms vs run

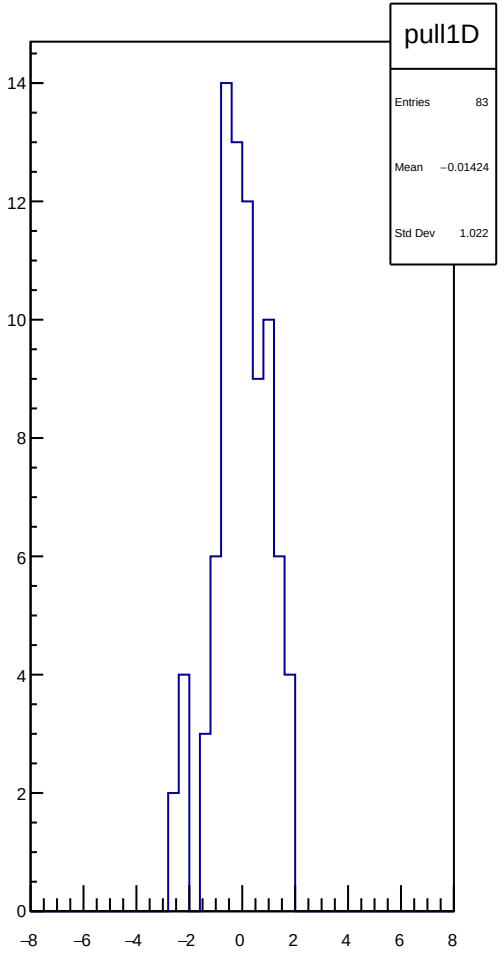


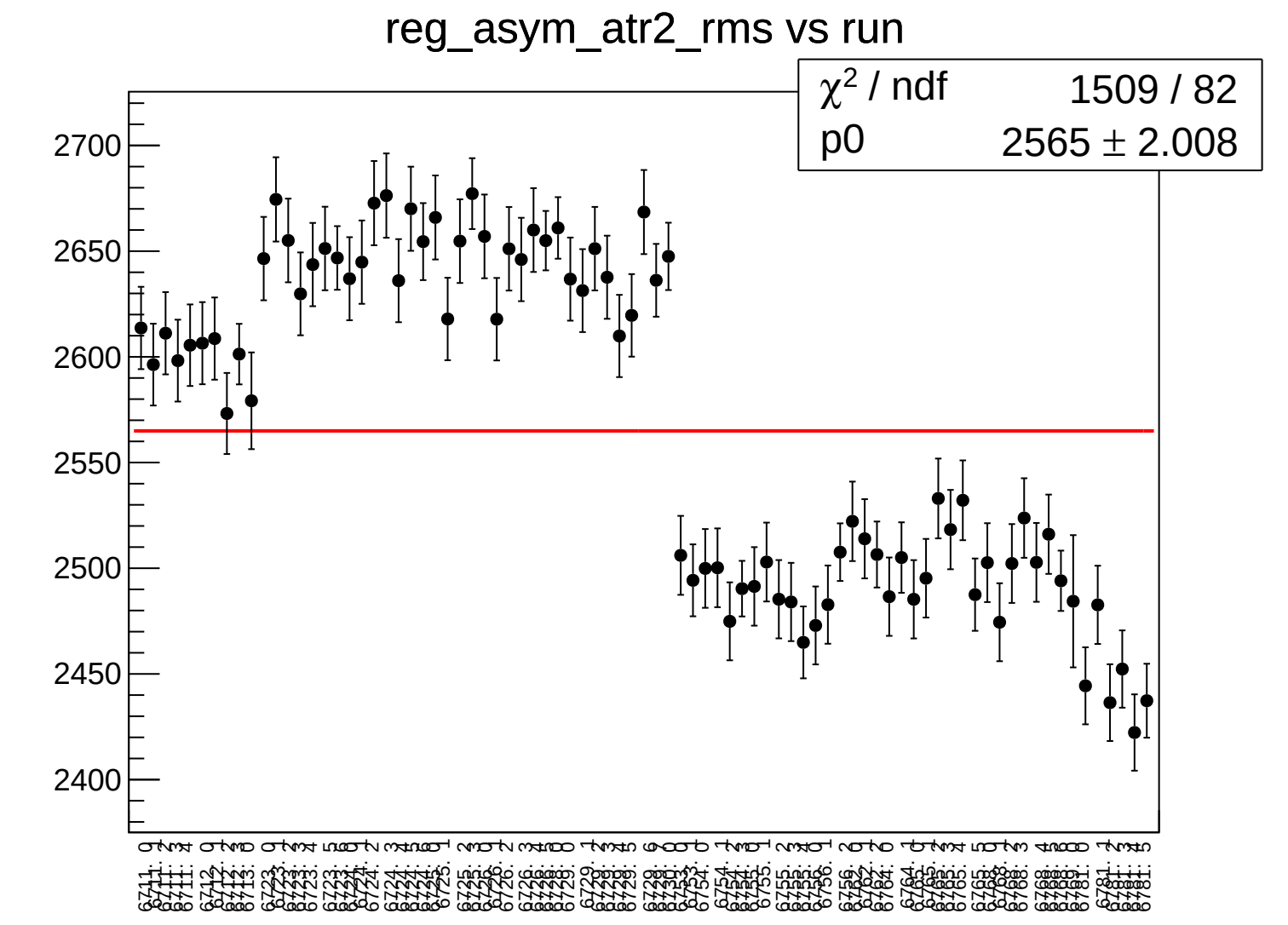

asym_atr1_mean vs run
×10^3
χ² / ndf 97.1 / 82
p0 −1.165e+04 ± 3183
100
50
0
−50
−100
−150
pull
Entries 83
Mean −316.3
Std Dev 342.5
2
1
0
−1
−2
−3

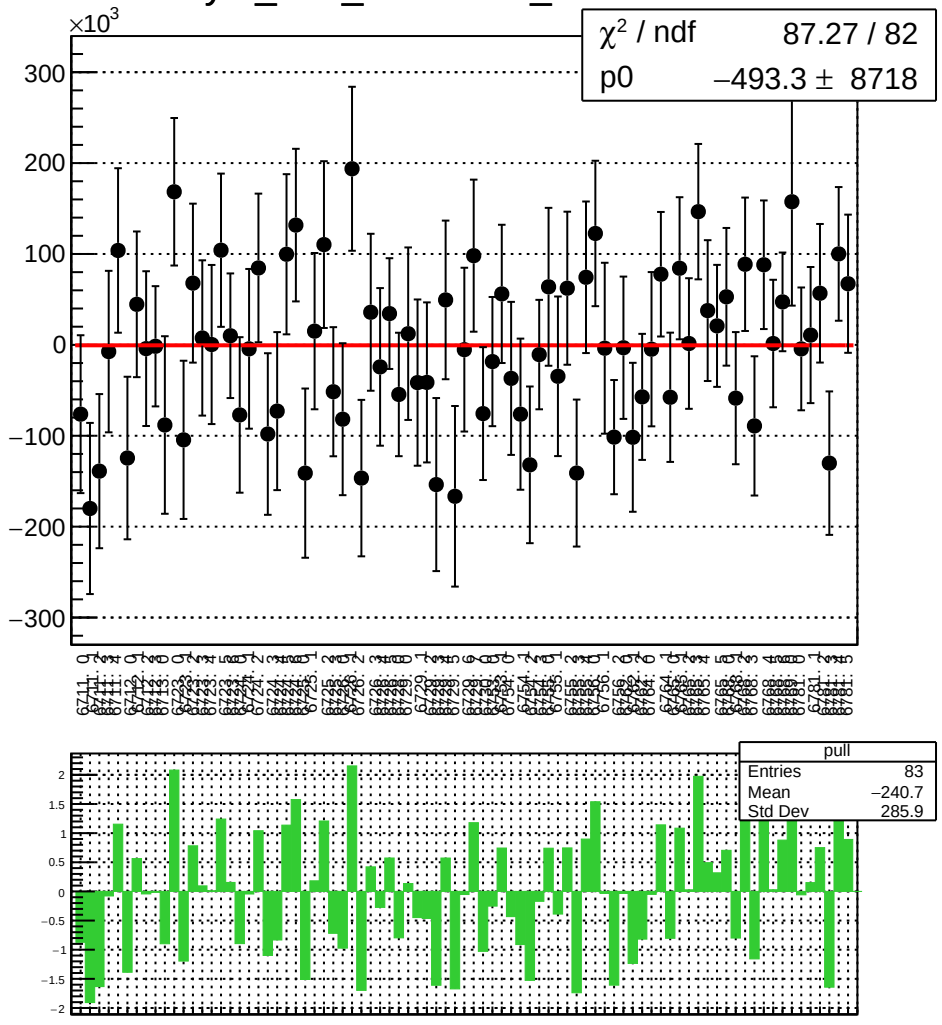

pull1D
Entries 83
Mean −0.007268
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

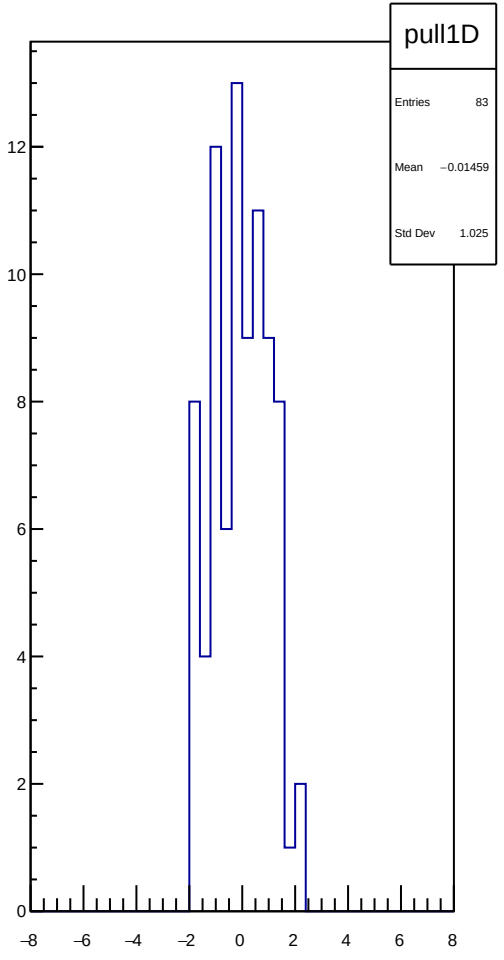

asym_atr1_rms vs run
χ^2 / ndf 1.242e+04 / 82
p0 2866 ± 2.25
10000
9000
8000
7000
6000
5000
4000
3000

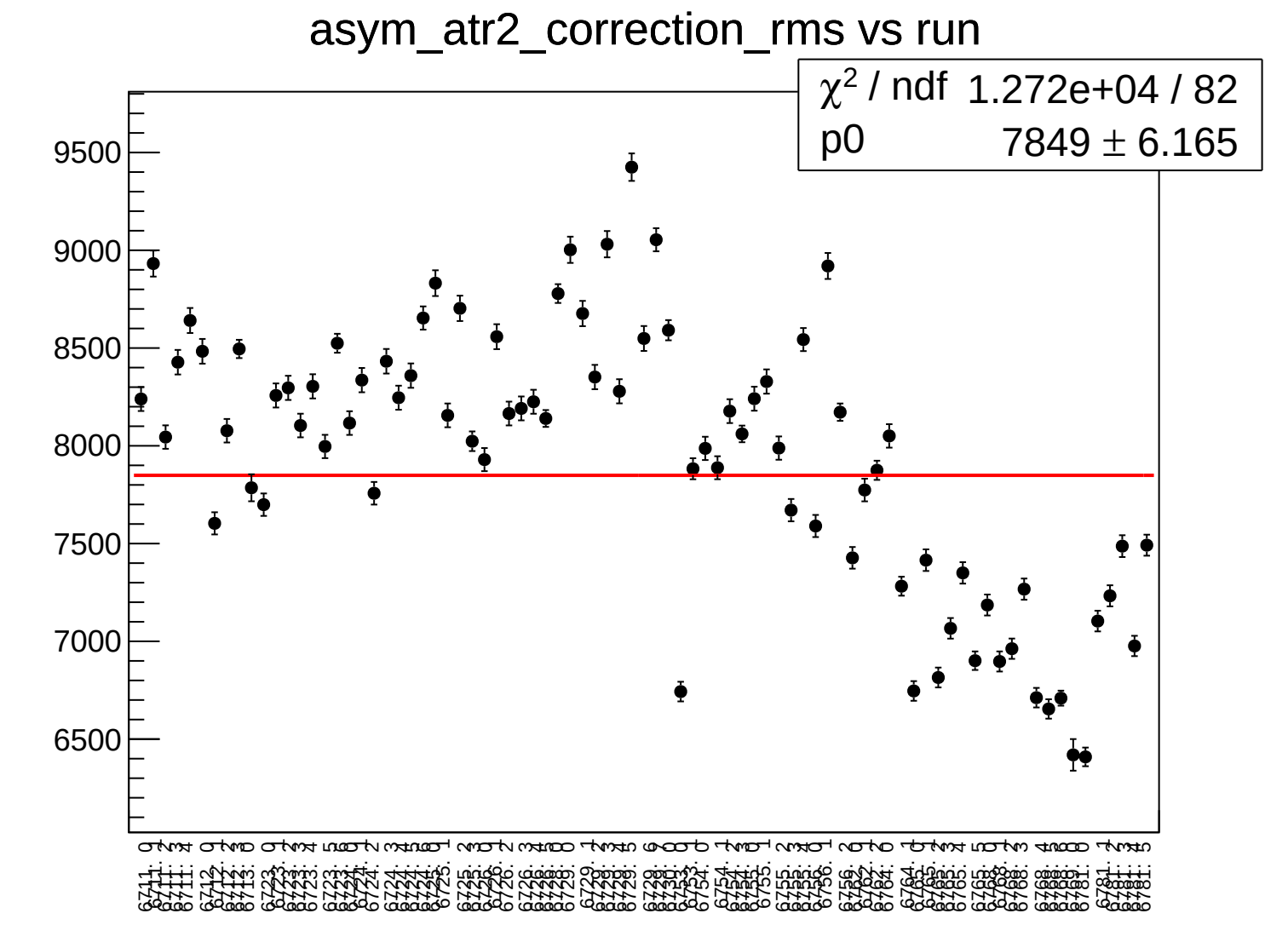

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 86.67 / 82
p0 −4003 ± 2839
pull
Entries 83
Mean −266.7
Std Dev 308.4

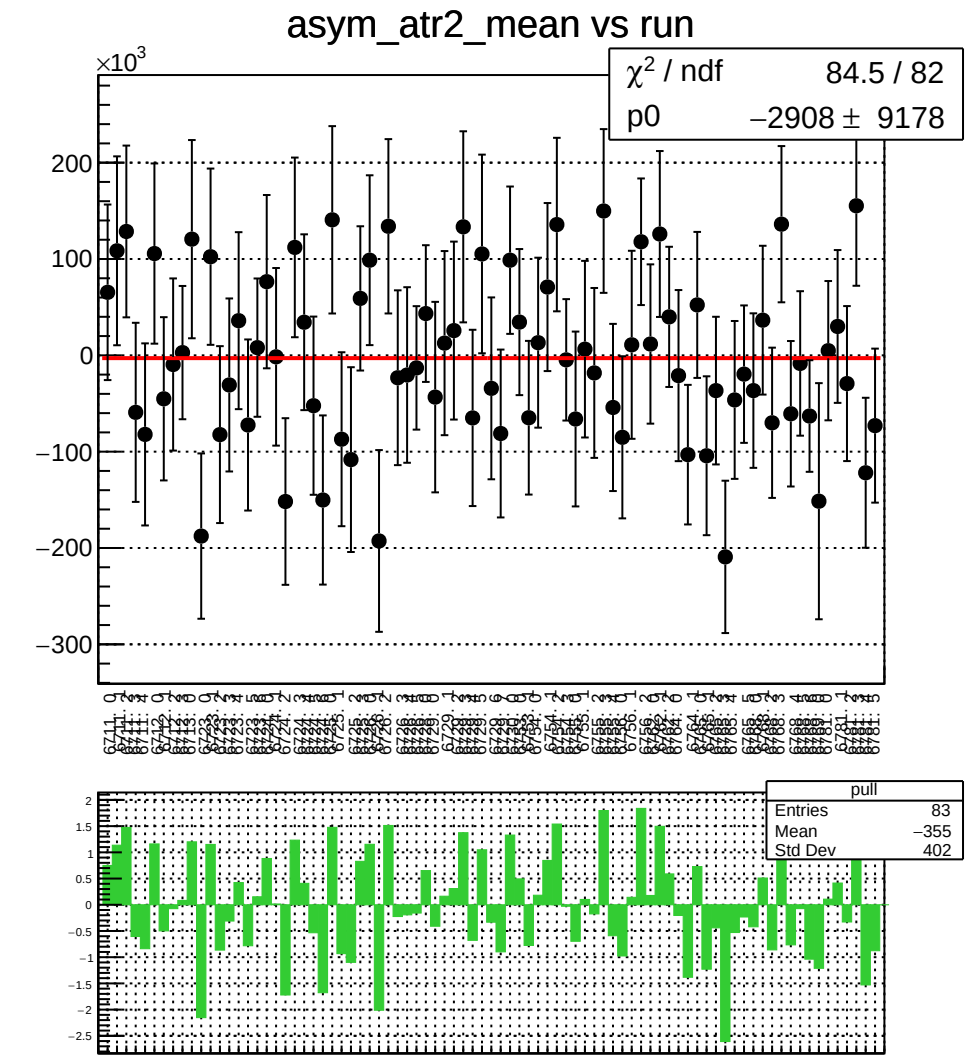

pull1D
Entries 83
Mean −0.01424
Std Dev 1.022

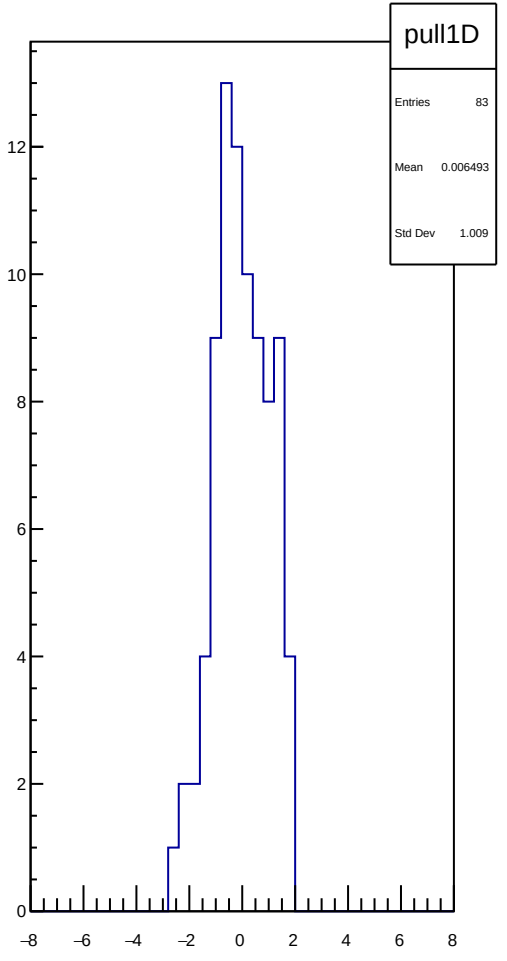

reg_asym_atr2_rms vs run
χ^2 / ndf 1509 / 82
p0 2565 ± 2.008
2700
2650
2600
2550
2500
2450
2400

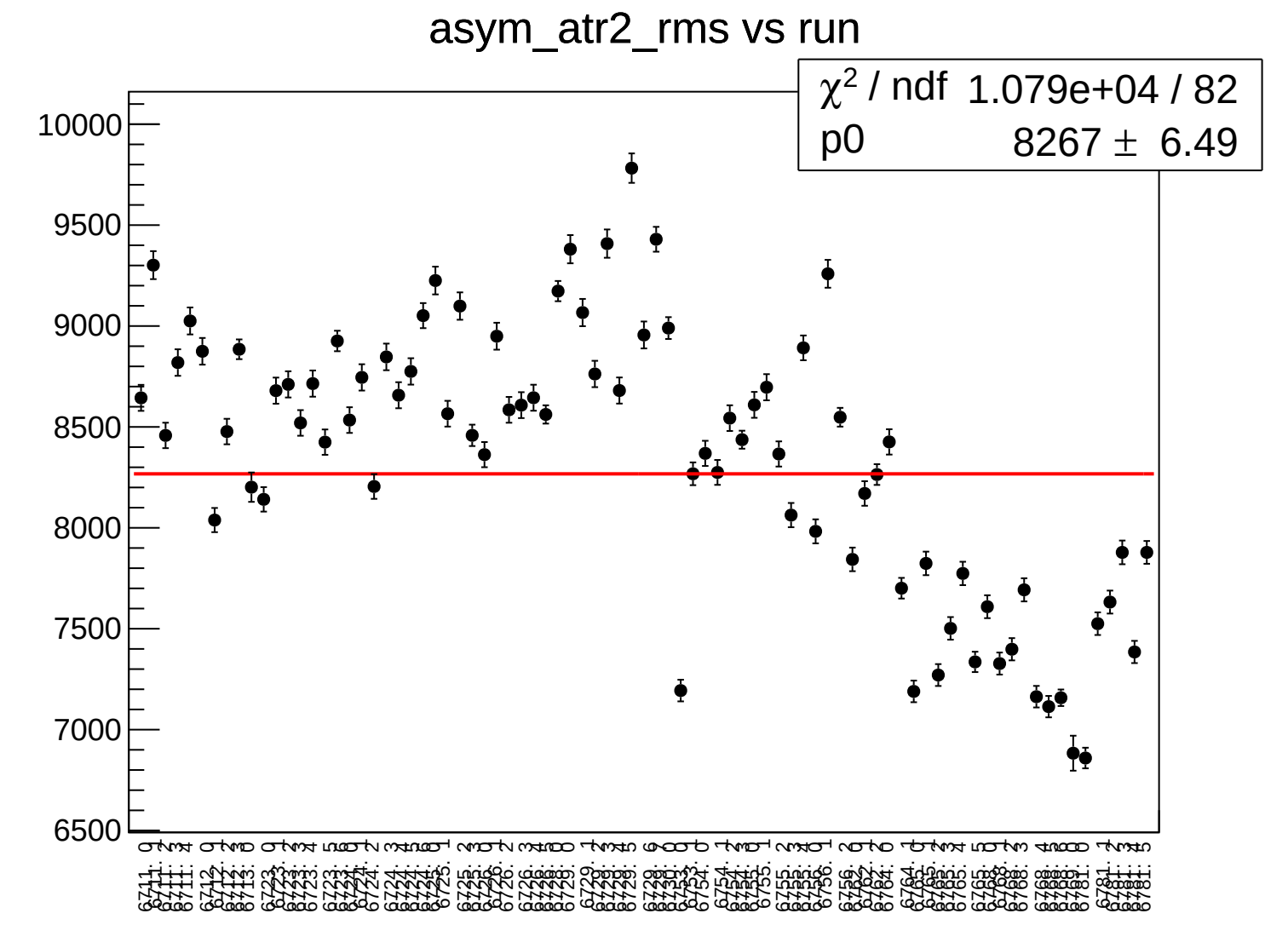

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 87.27 / 82
p0 −493.3 ± 8718
pull
Entries 83
Mean −240.7
Std Dev 285.9

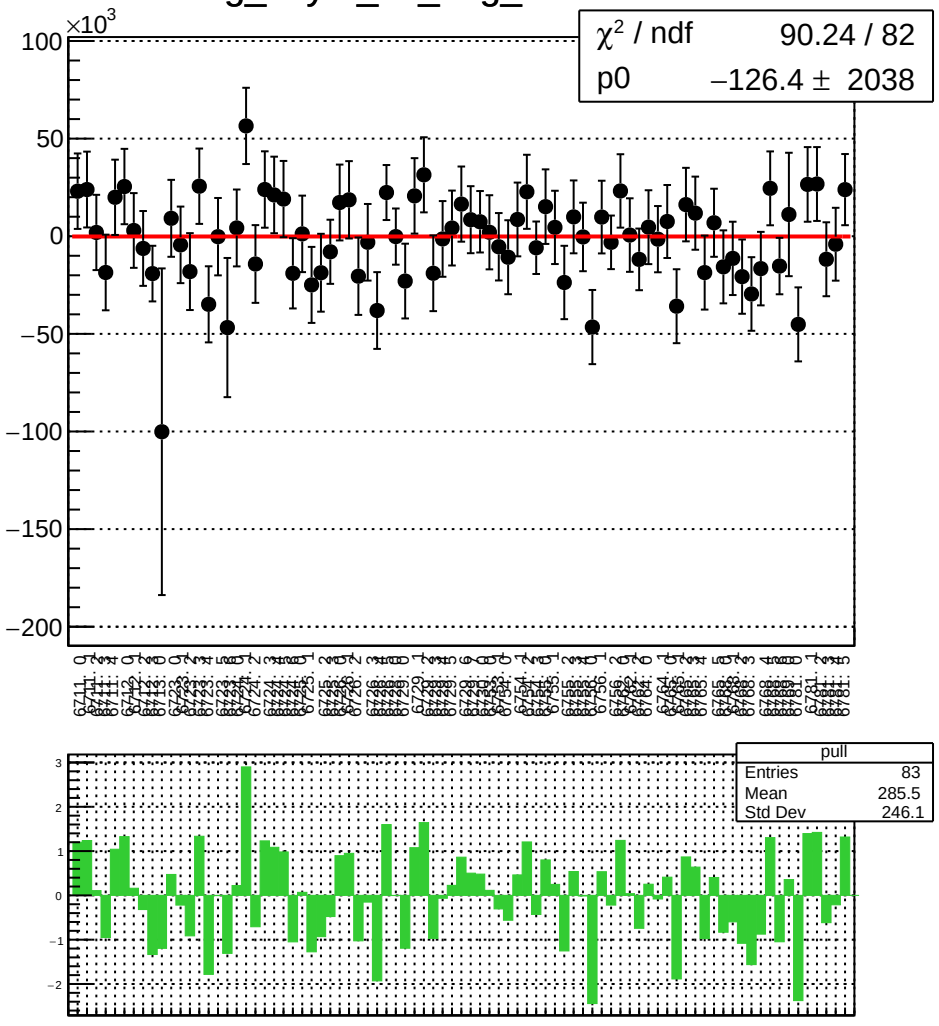

pull1D
Entries 83
Mean −0.01459
Std Dev 1.025

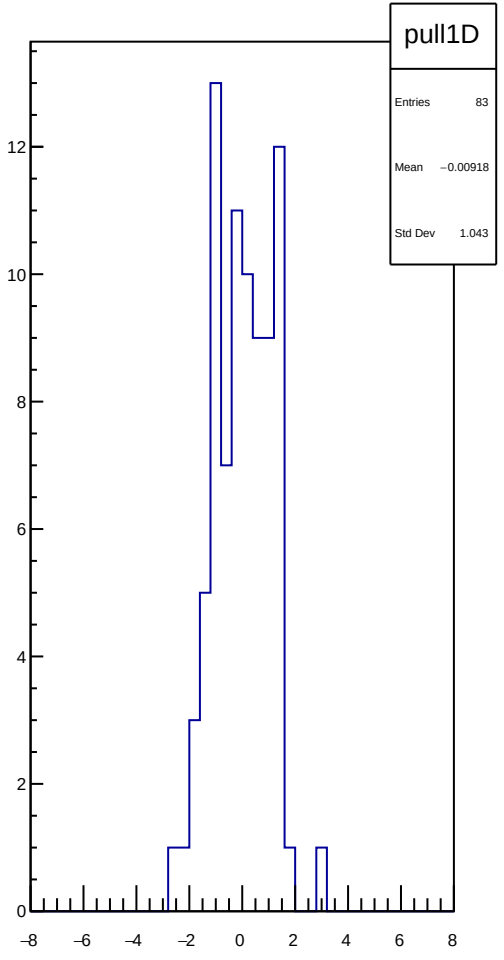

asym_atr2_correction_rms vs run
χ² / ndf 1.272e+04 / 82
p0 7849 ± 6.165
9500
9000
8500
8000
7500
7000
6500

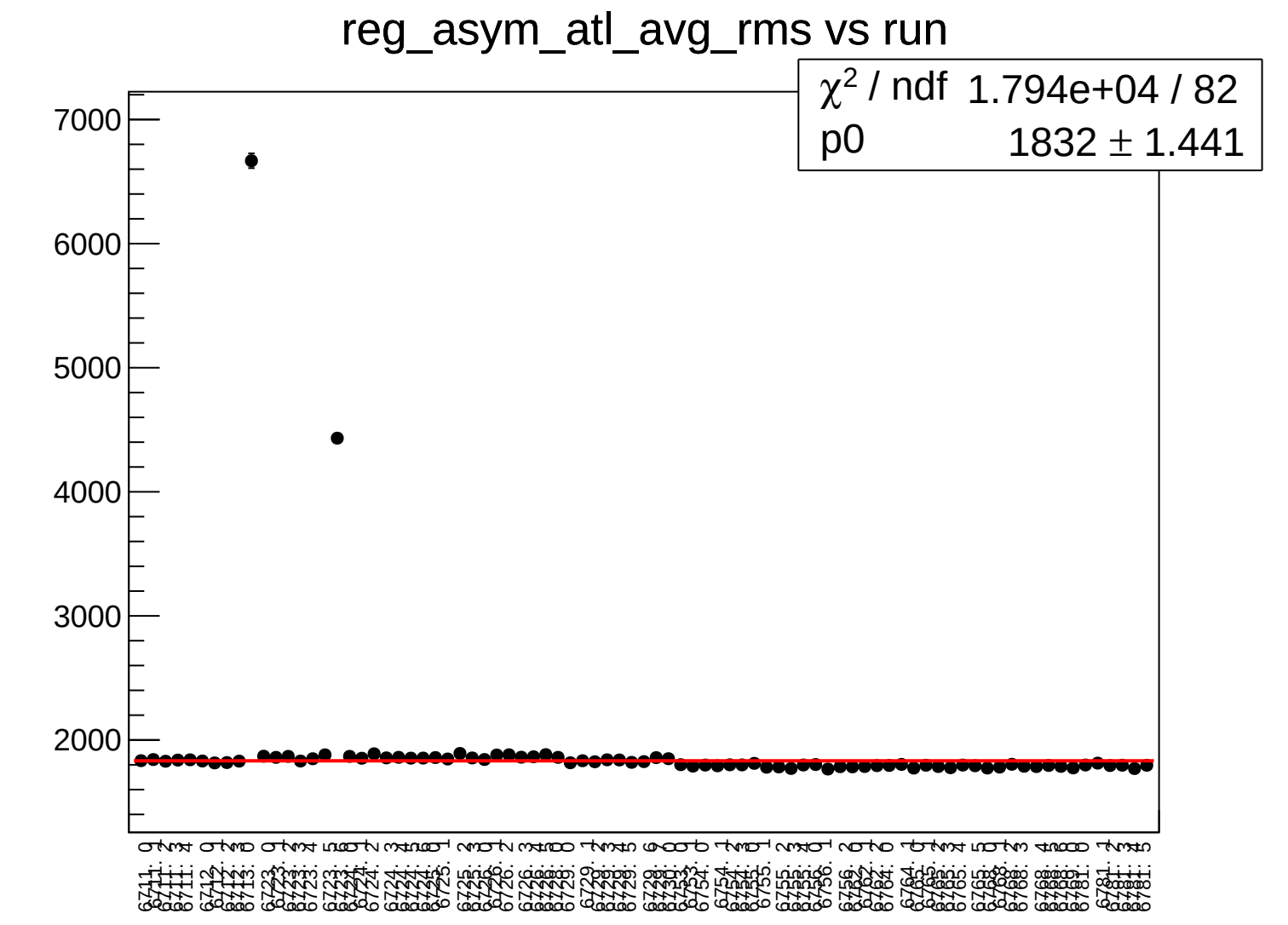

asym_atr2_mean vs run
×10^3
χ² / ndf 84.5 / 82
p0 −2908 ± 9178
200
100
0
−100
−200
−300
pull
Entries 83
Mean −355
Std Dev 402
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

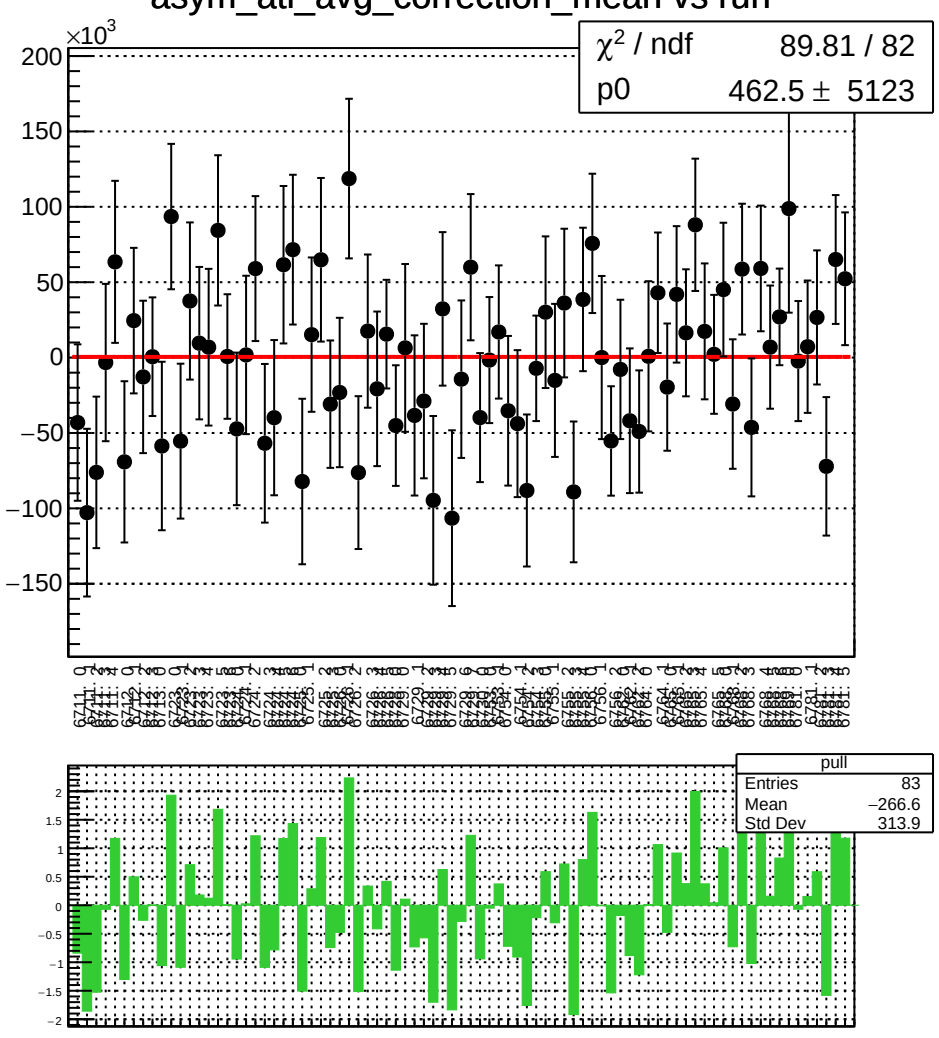

pull1D
Entries 83
Mean 0.006493
Std Dev 1.009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

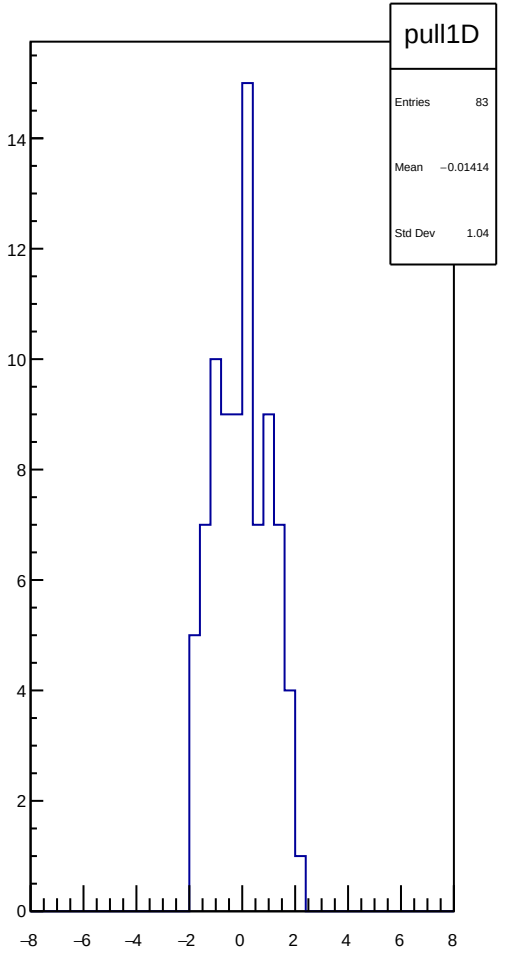

asym_atr2_rms vs run
χ² / ndf 1.079e+04 / 82
p0 8267 ± 6.49
10000
9500
9000
8500
8000
7500
7000
6500

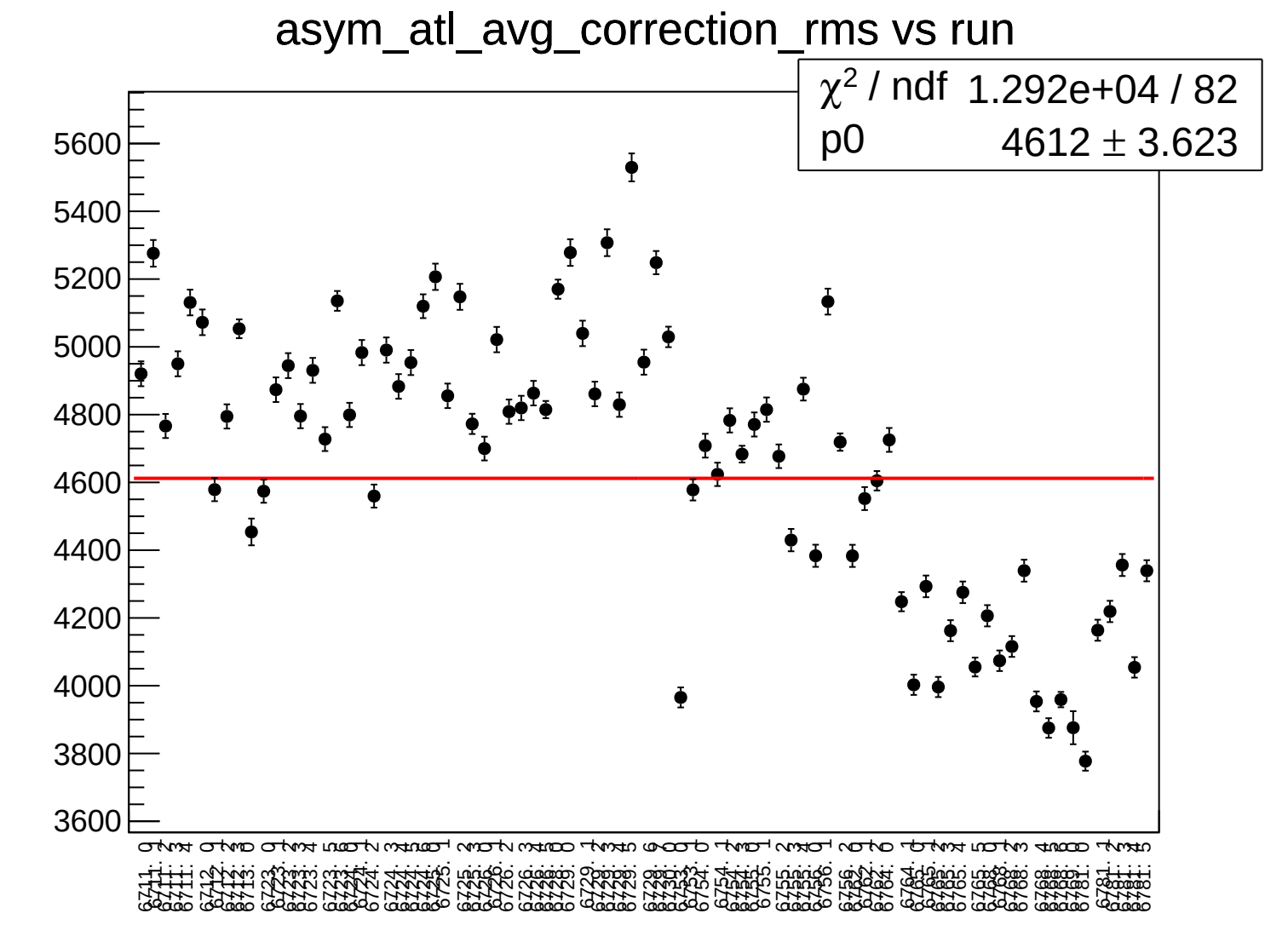

reg_asym_atl_avg_mean vs run
×10^3
χ² / ndf 90.24 / 82
p0 −126.4 ± 2038
pull
Entries 83
Mean 285.5
Std Dev 246.1

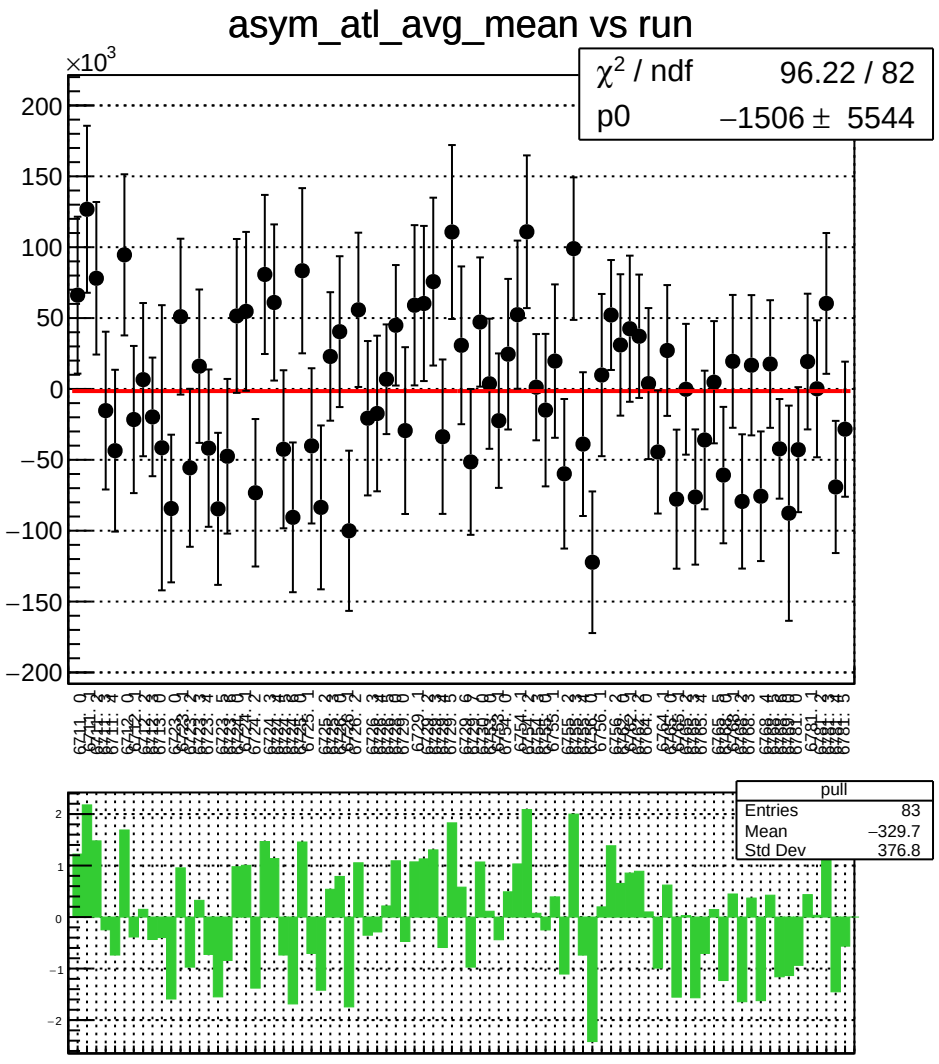

pull1D
Entries 83
Mean −0.00918
Std Dev 1.043

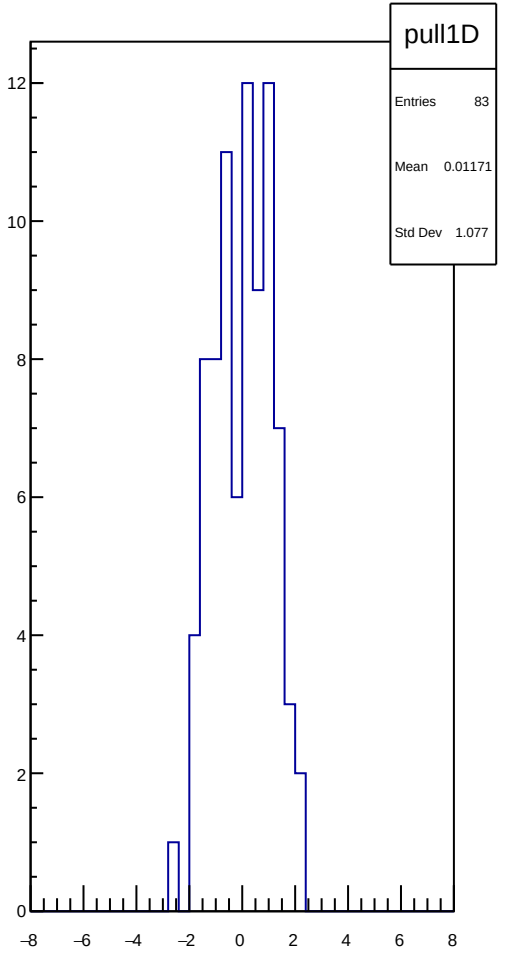

reg_asym_atl_avg_rms vs run
χ^2 / ndf 1.794e+04 / 82
p0 1832 ± 1.441
7000
6000
5000
4000
3000
2000

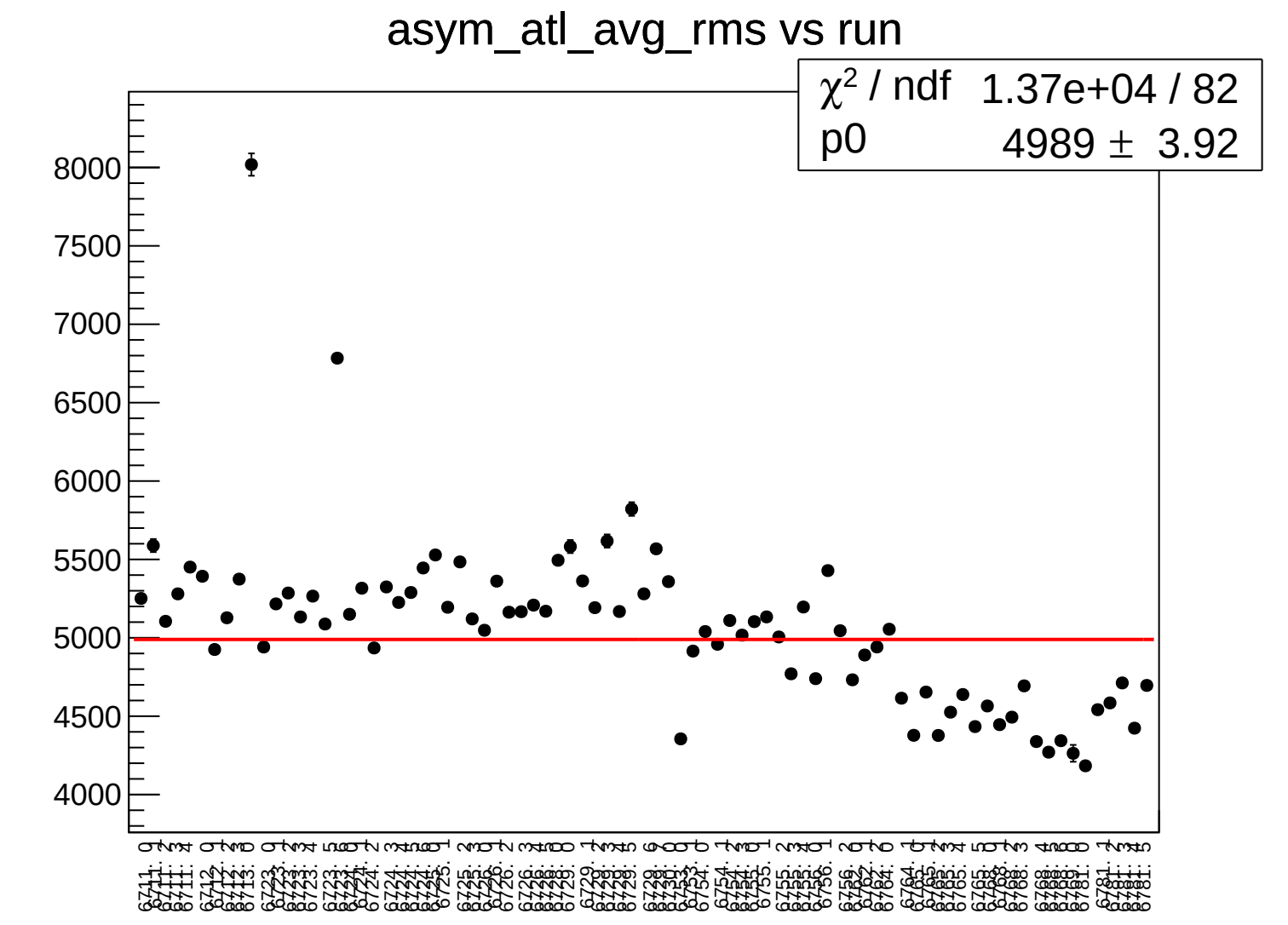

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 89.81 / 82
p0 462.5 ± 5123
pull
Entries 83
Mean −266.6
Std Dev 313.9

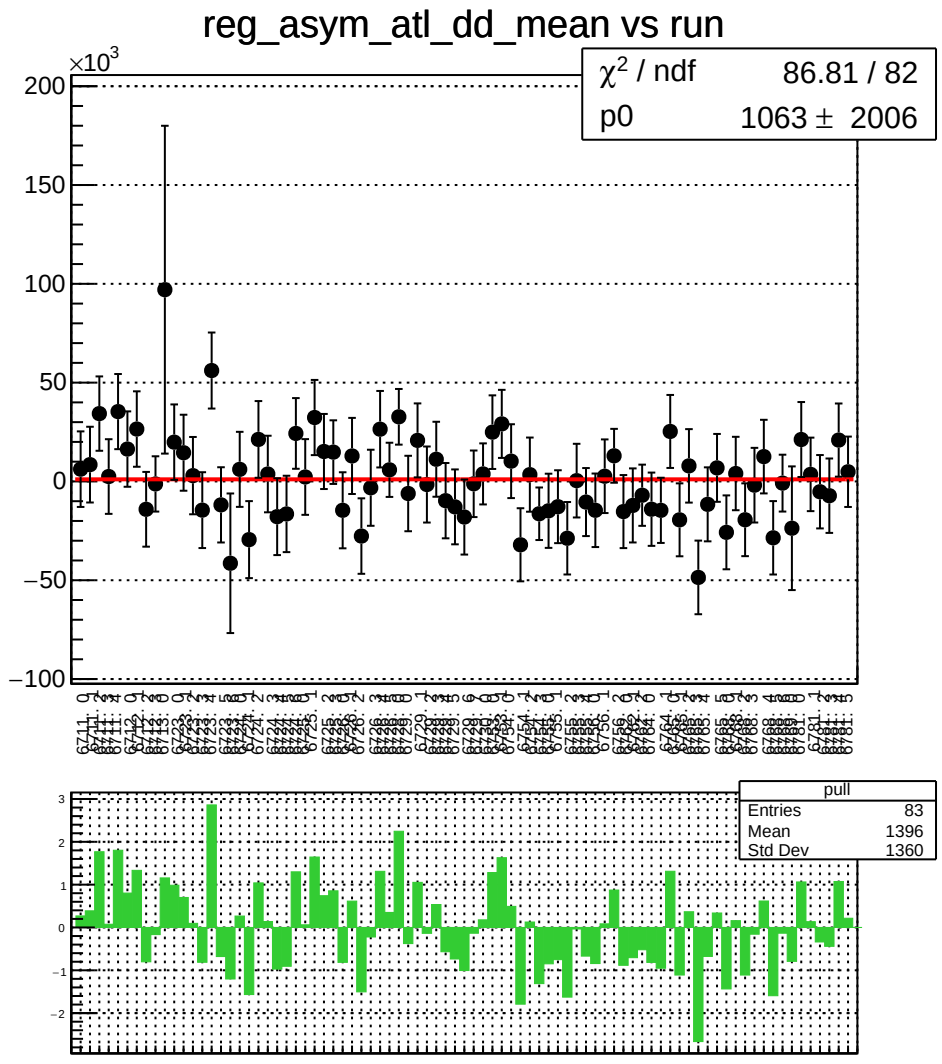

pull1D
Entries 83
Mean −0.01414
Std Dev 1.04

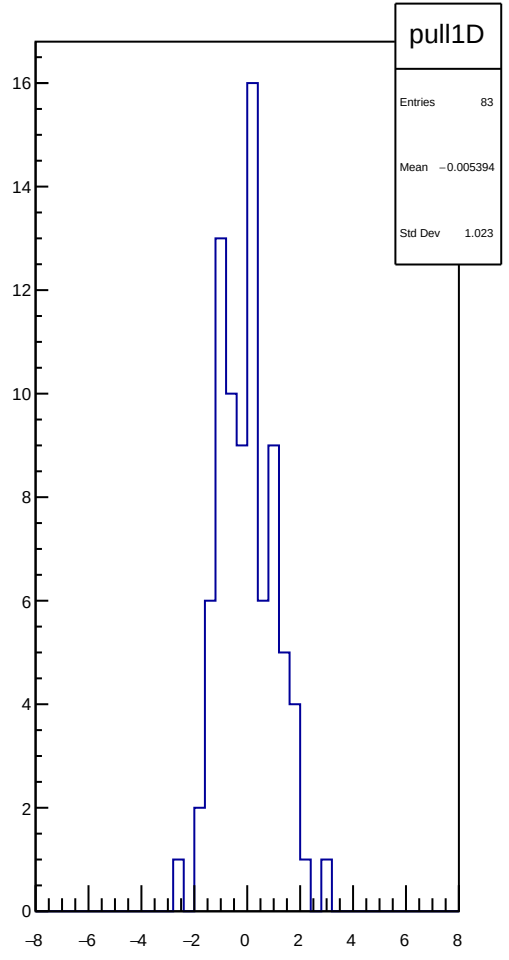

asym_atl_avg_correction_rms vs run
χ² / ndf 1.292e+04 / 82
p0 4612 ± 3.623
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

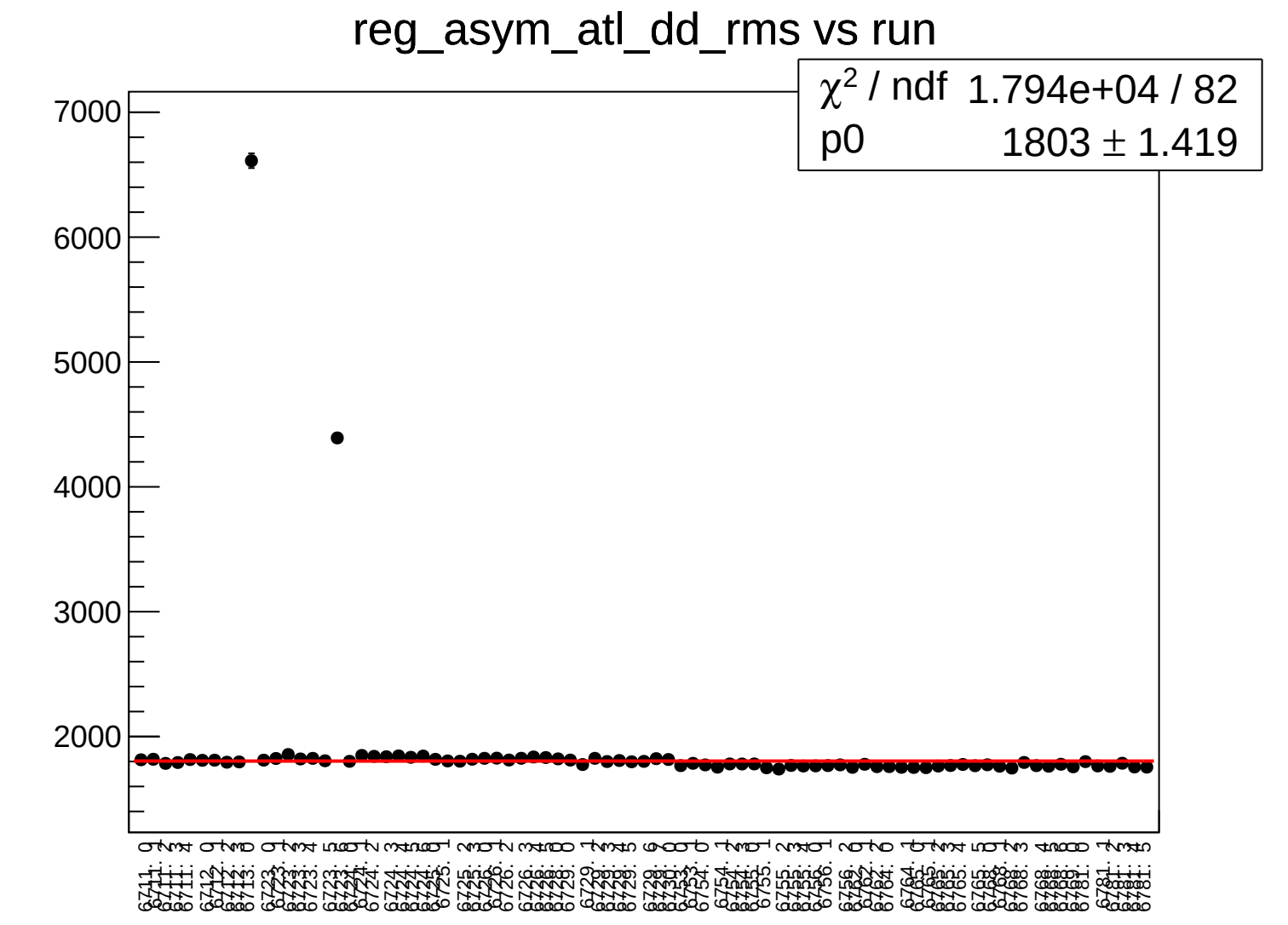

asym_atl_avg_mean vs run
×10^3
χ² / ndf 96.22 / 82
p0 −1506 ± 5544
pull
Entries 83
Mean −329.7
Std Dev 376.8

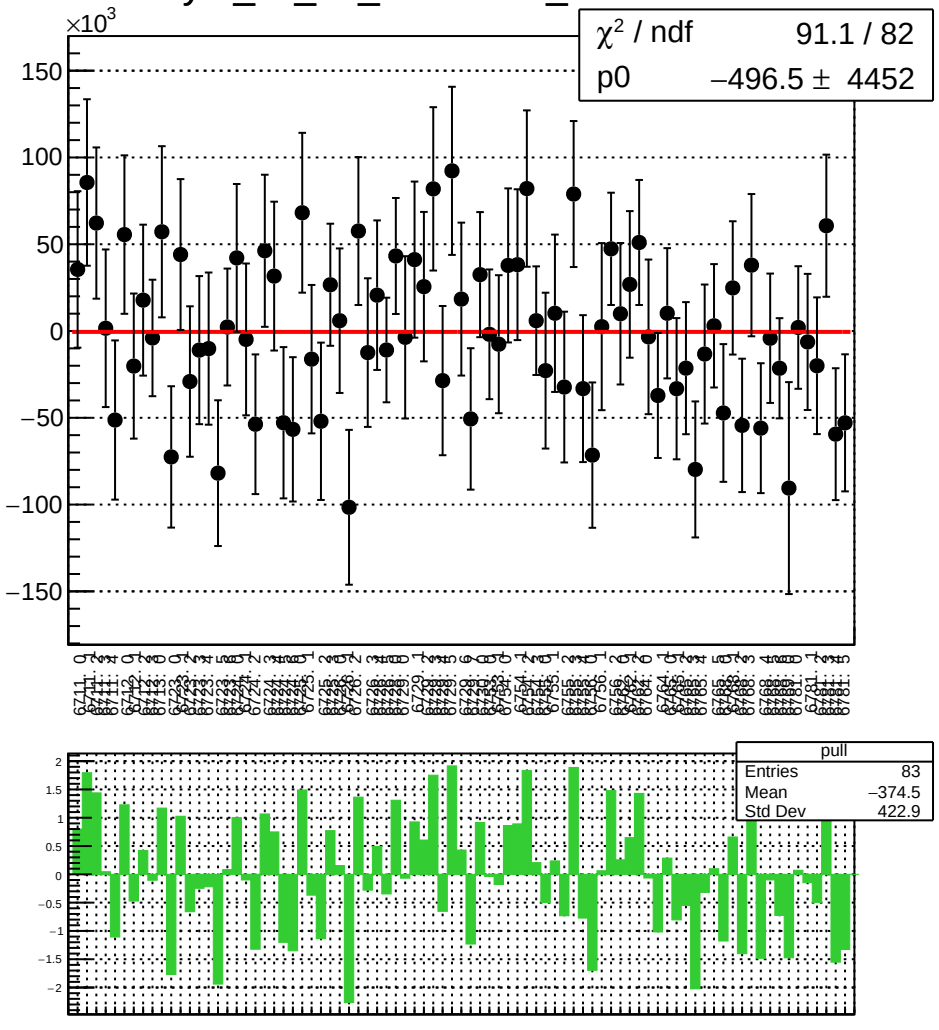

pull1D
Entries 83
Mean 0.01171
Std Dev 1.077

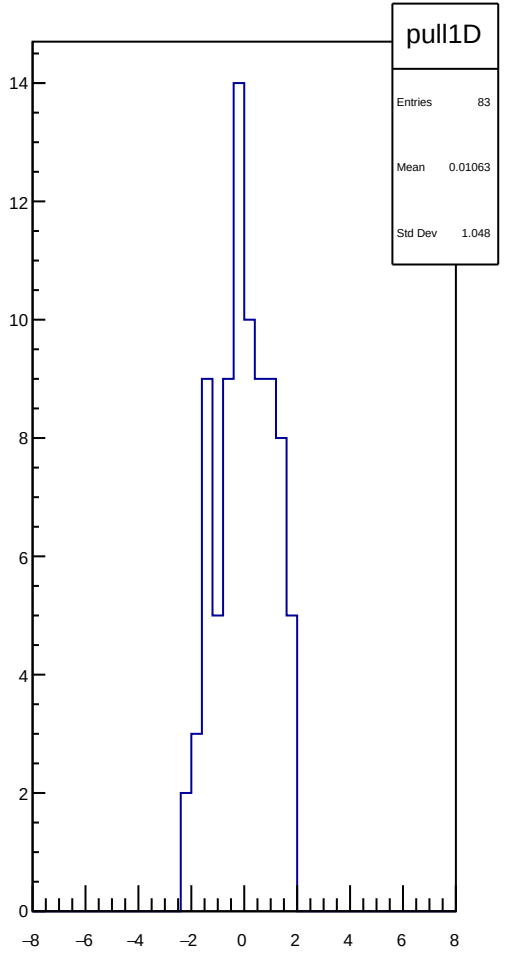

asym_atl_avg_rms vs run
χ² / ndf 1.37e+04 / 82
p0 4989 ± 3.92
8000
7500
7000
6500
6000
5500
5000
4500
4000

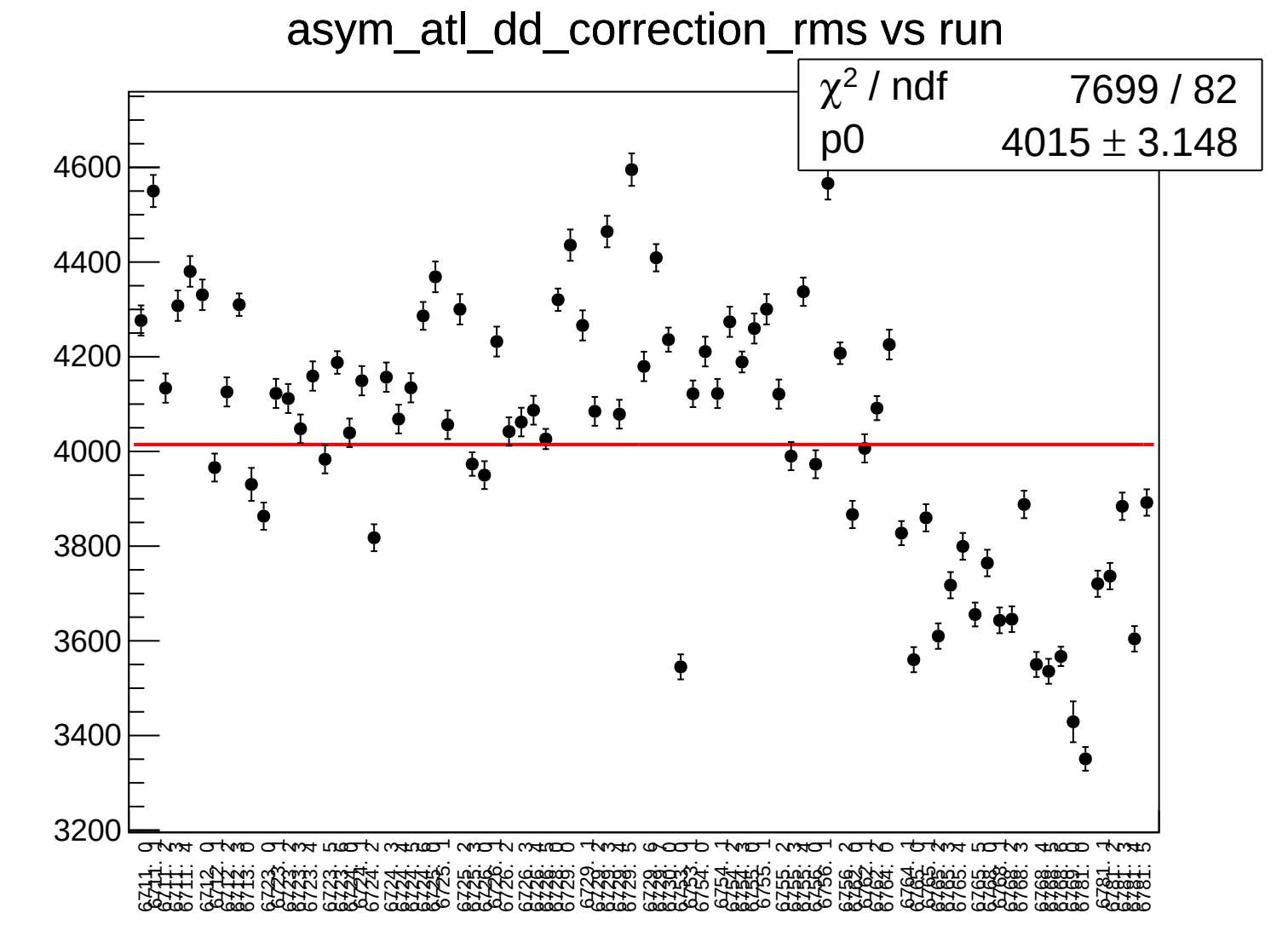

reg_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 86.81 / 82
p0 1063 ± 2006
200
150
100
50
0
−50
−100
pull
Entries 83
Mean 1396
Std Dev 1360
3
2
1
0
−1
−2

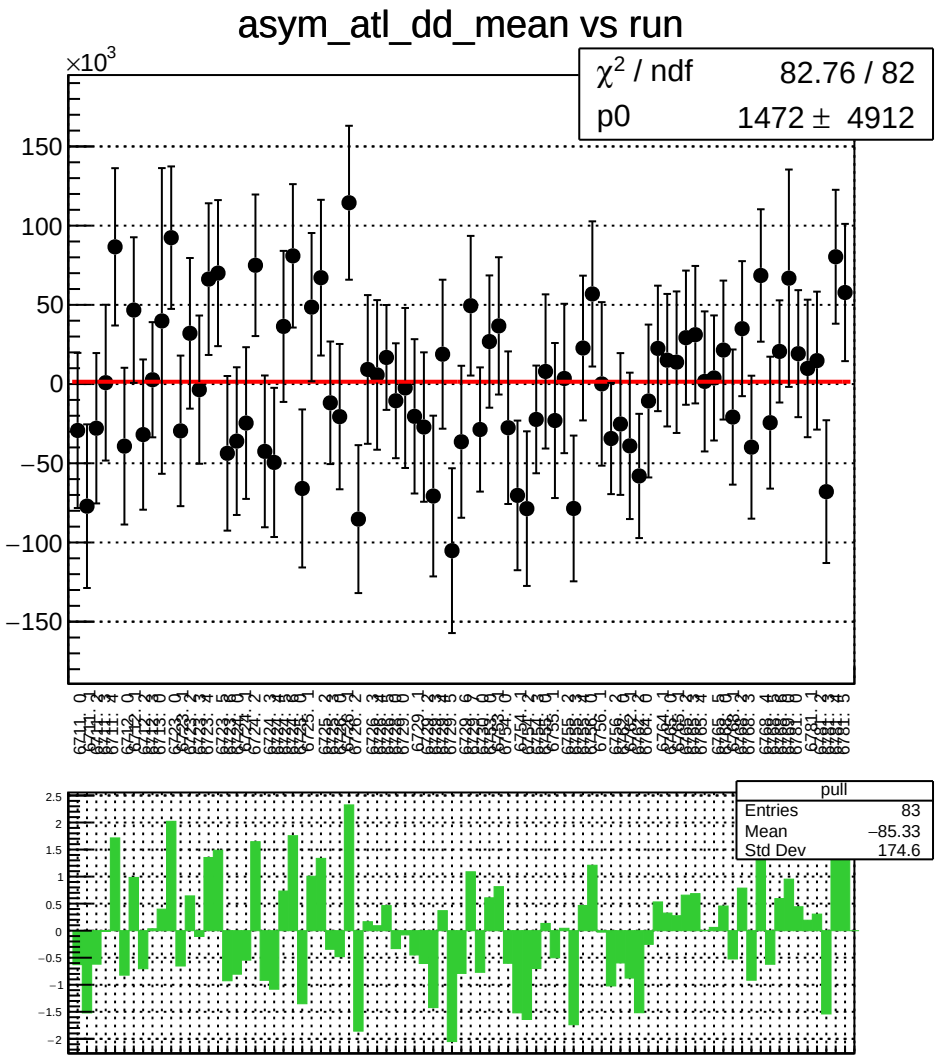

pull1D
Entries 83
Mean −0.005394
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

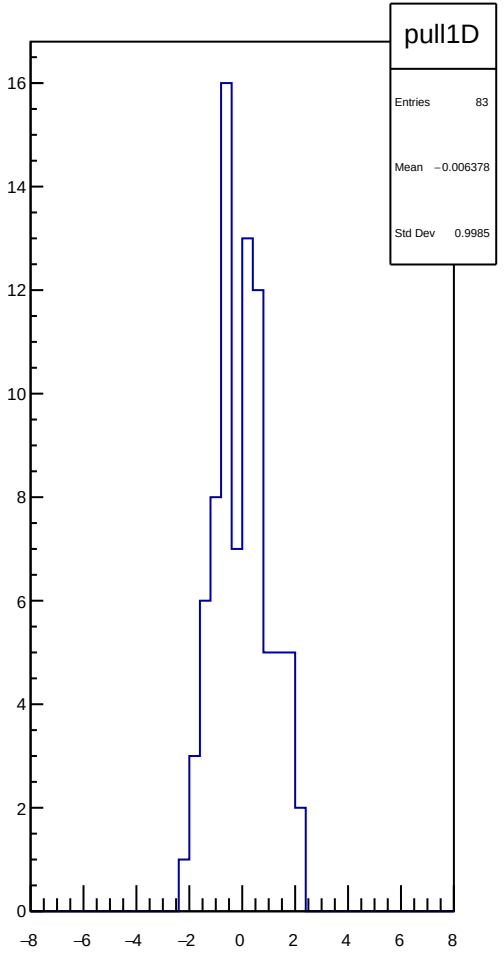

reg_asym_atl_dd_rms vs run
χ² / ndf 1.794e+04 / 82
p0 1803 ± 1.419
7000
6000
5000
4000
3000
2000

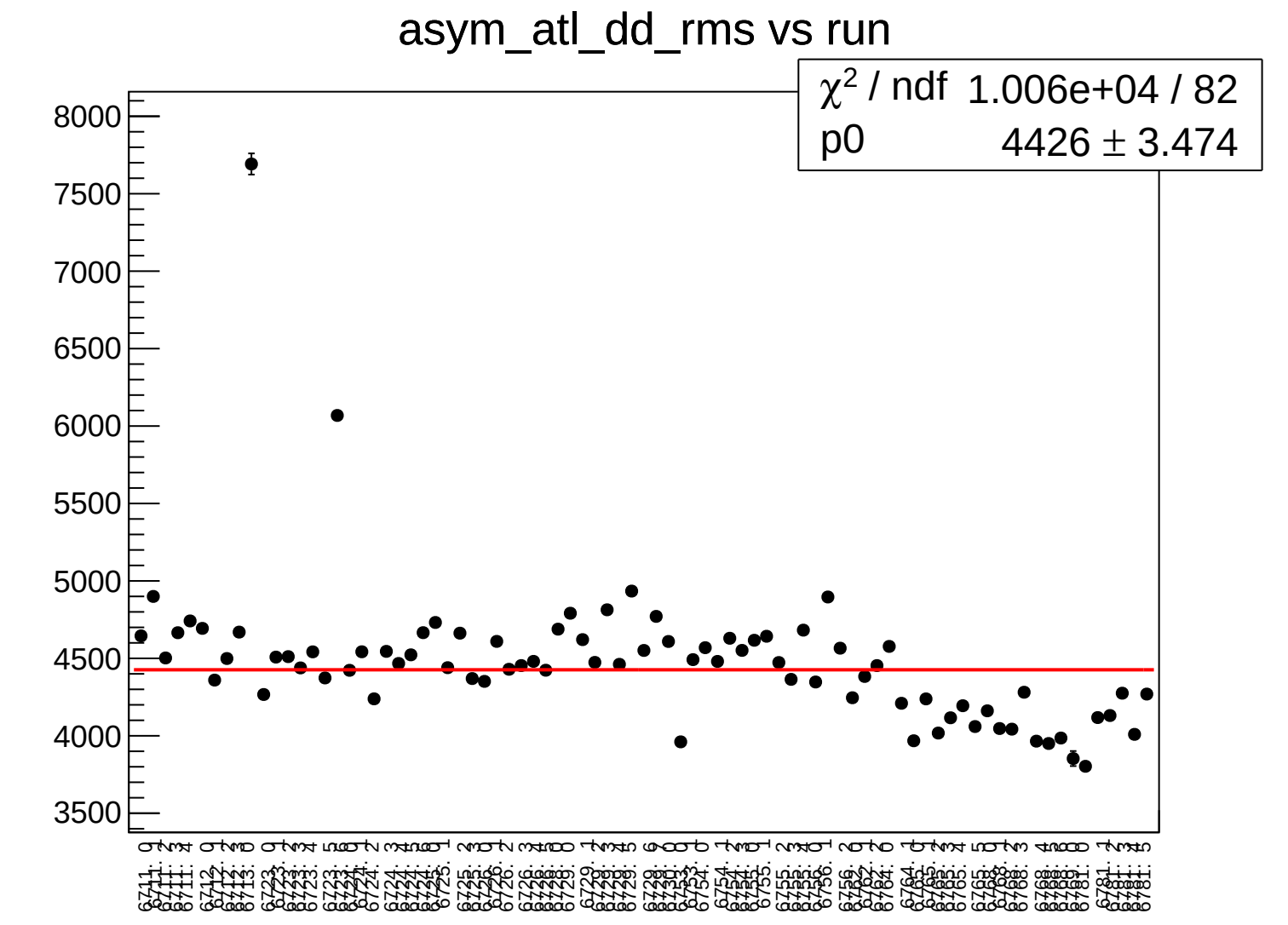

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 91.1 / 82
p0 −496.5 ± 4452
150
100
50
0
−50
−100
−150
pull
Entries 83
Mean −374.5
Std Dev 422.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

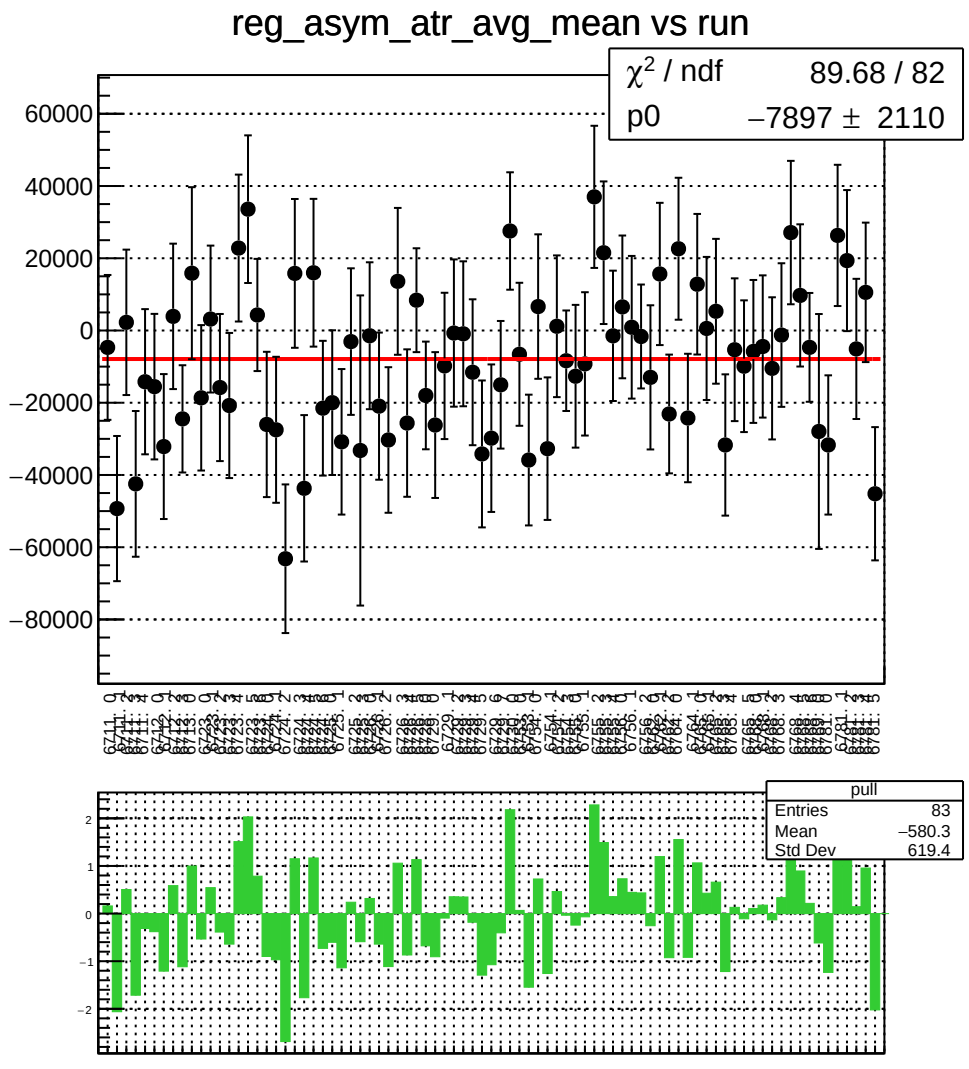

pull1D
Entries 83
Mean 0.01063
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

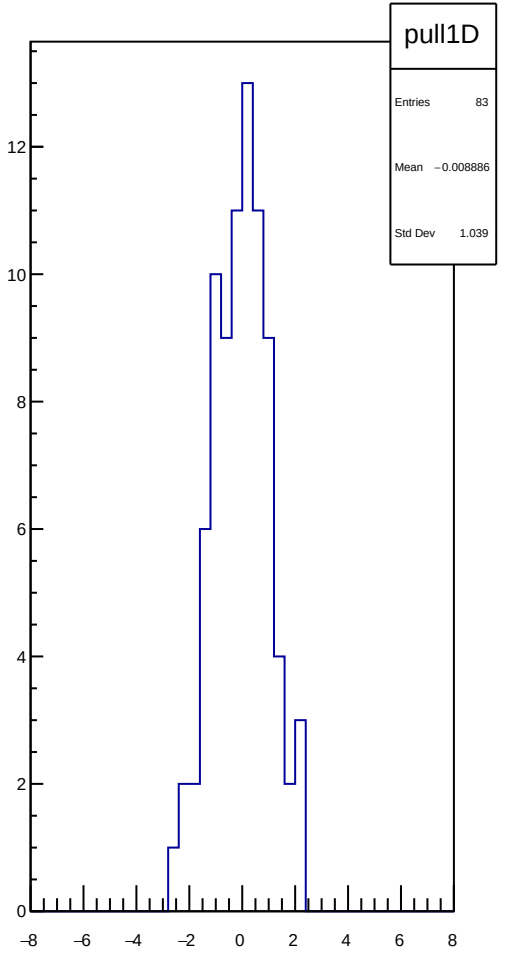

asym_atl_dd_correction_rms vs run
χ² / ndf 7699 / 82
p0 4015 ± 3.148
4600
4400
4200
4000
3800
3600
3400
3200

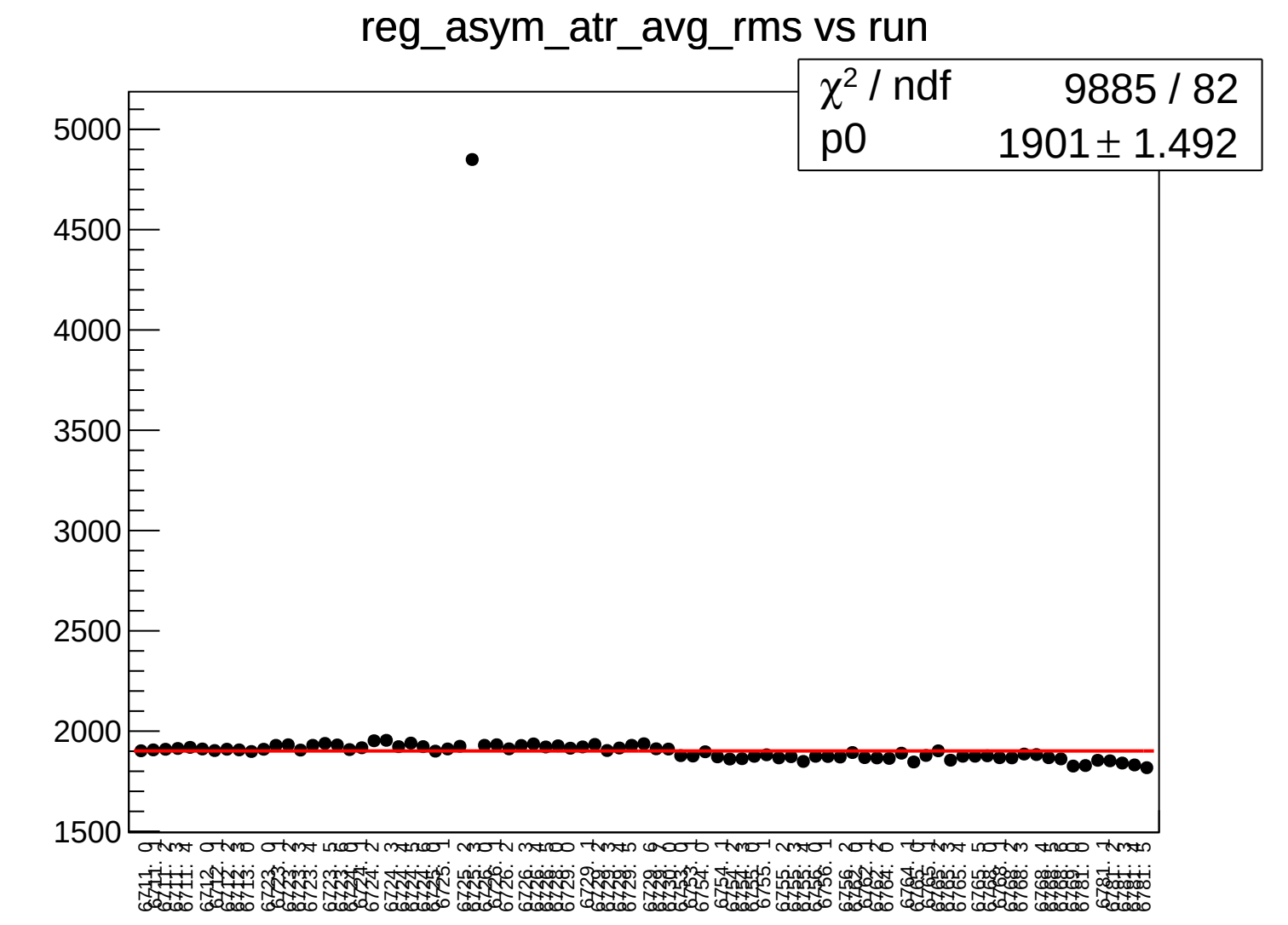

asym_atl_dd_mean vs run
χ² / ndf 82.76 / 82
p0 1472 ± 4912
pull
Entries 83
Mean −85.33
Std Dev 174.6

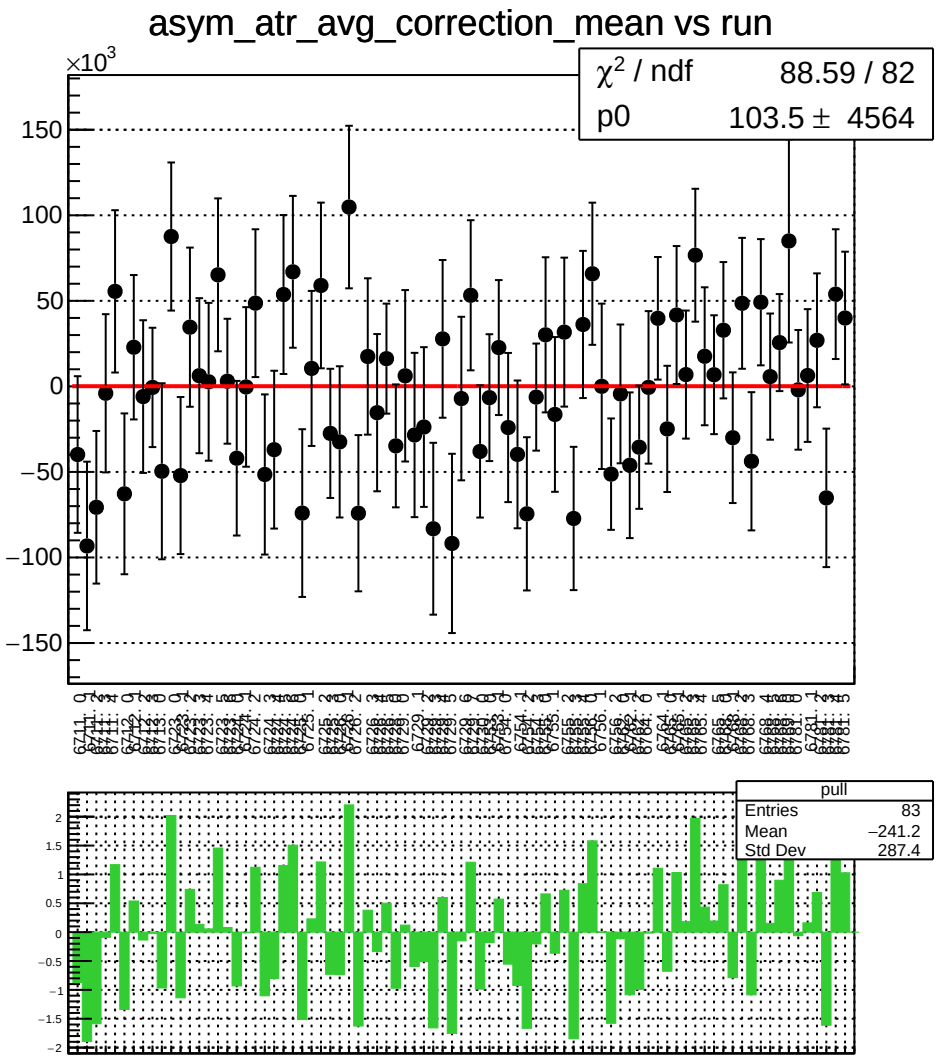

pull1D
Entries 83
Mean −0.006378
Std Dev 0.9985

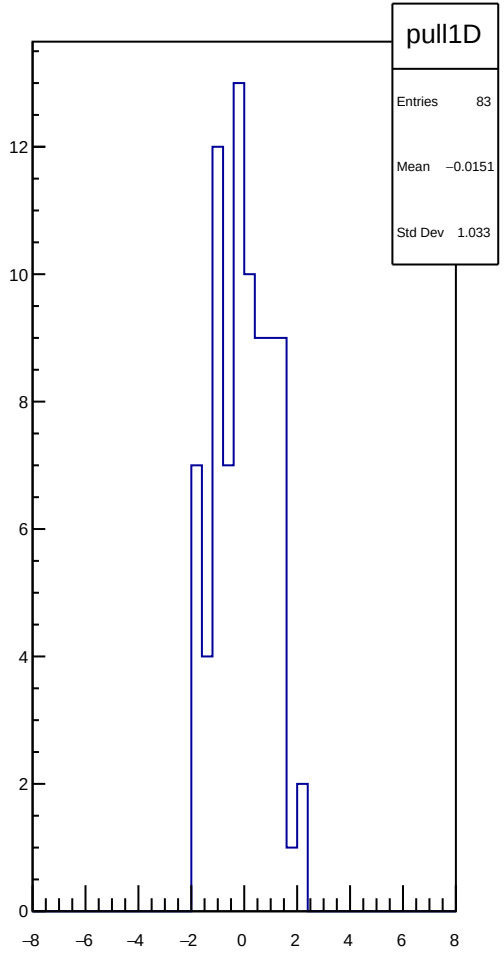

asym_atl_dd_rms vs run
χ² / ndf 1.006e+04 / 82
p0 4426 ± 3.474
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500

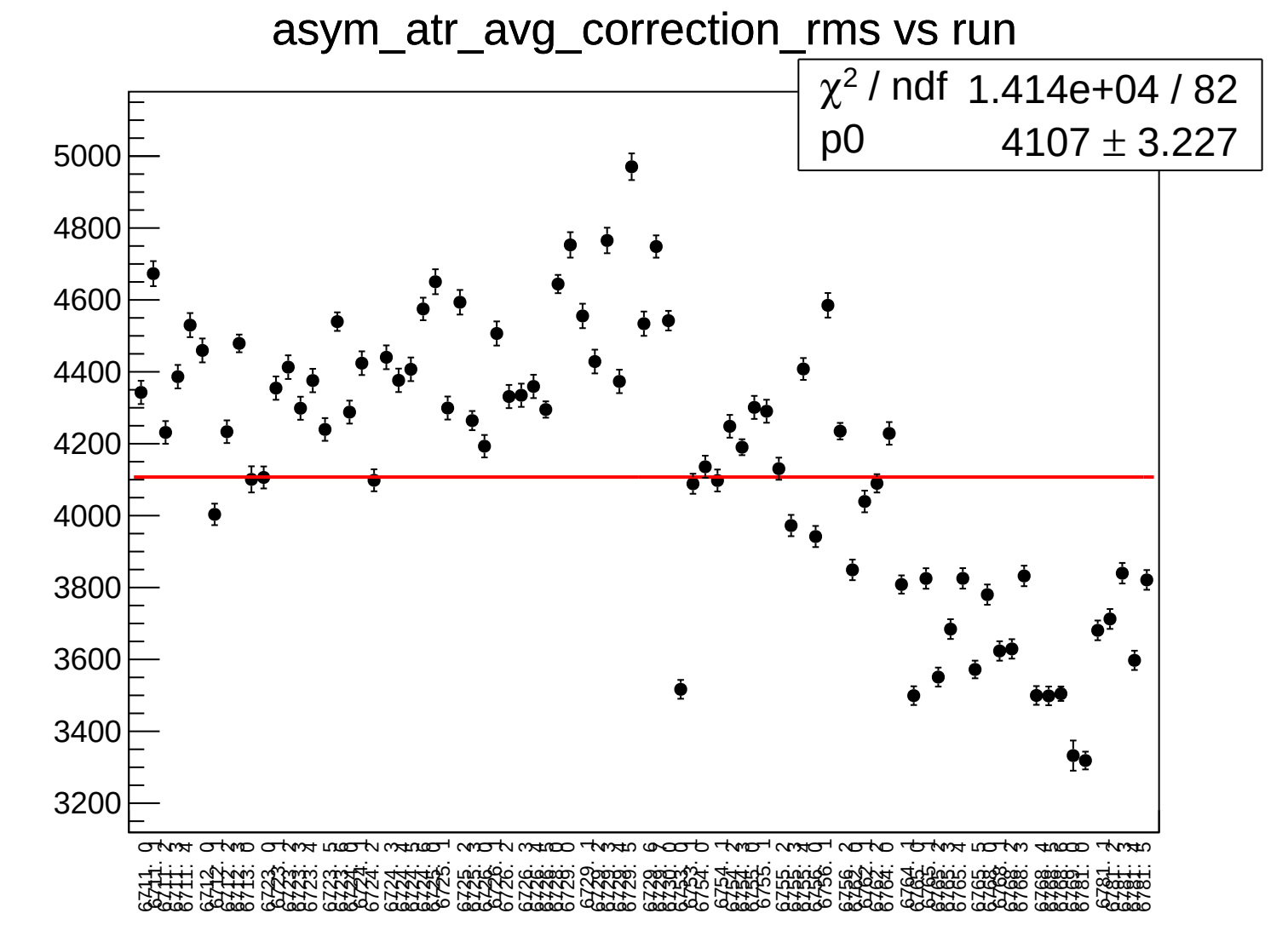

reg_asym_atr_avg_mean vs run
χ² / ndf 89.68 / 82
p0 −7897 ± 2110
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 83
Mean −580.3
Std Dev 619.4
2
1
0
−1
−2

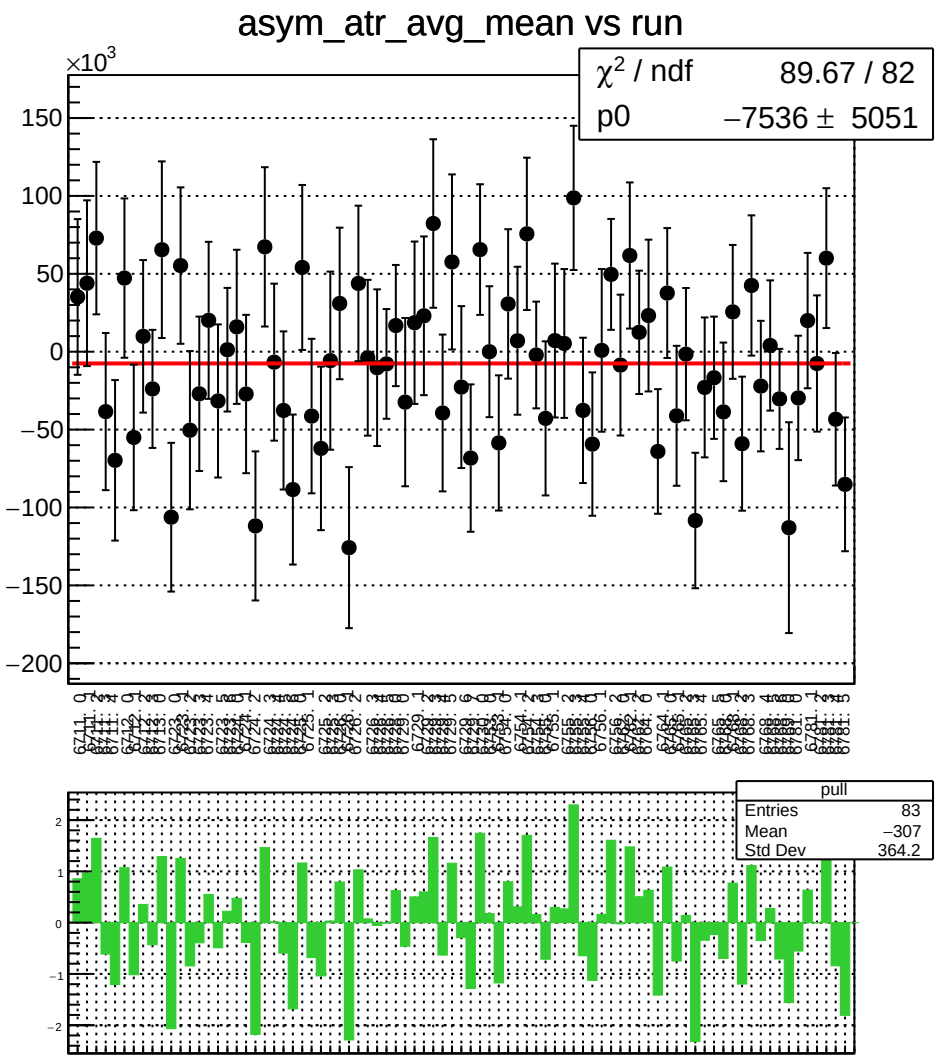

pull1D
Entries 83
Mean −0.008886
Std Dev 1.039
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

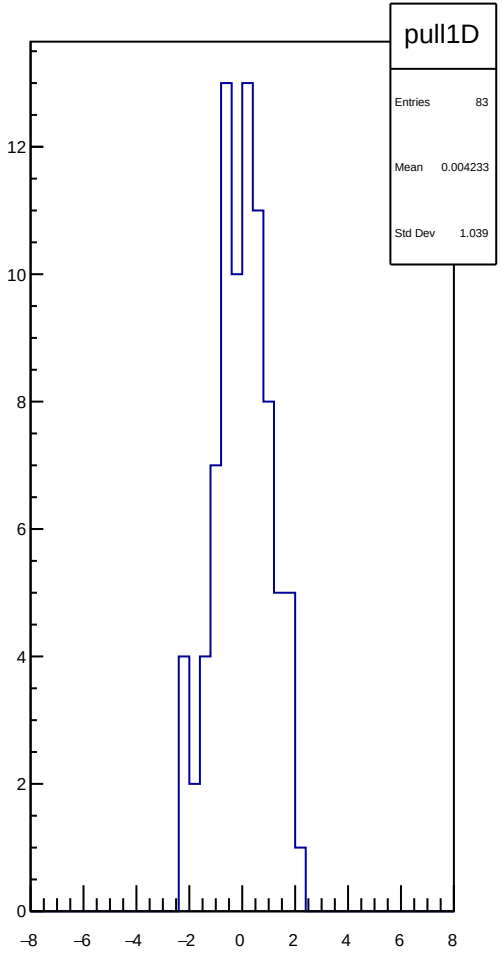

reg_asym_atr_avg_rms vs run
χ^2 / ndf 9885 / 82
p0 1901 ± 1.492
5000
4500
4000
3500
3000
2500
2000
1500

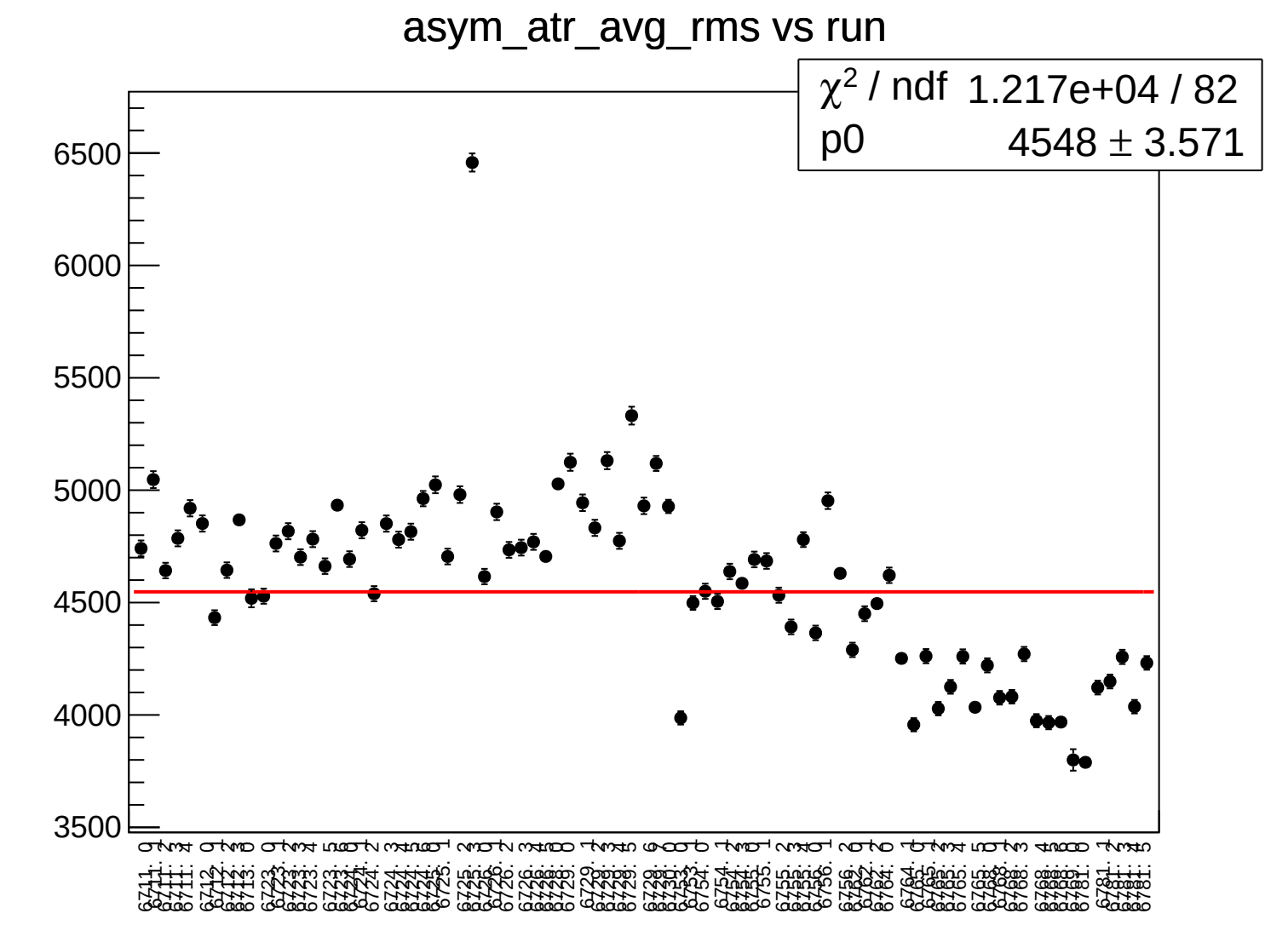

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 88.59 / 82
p0 103.5 ± 4564
150
100
50
0
−50
−100
−150
pull
Entries 83
Mean −241.2
Std Dev 287.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

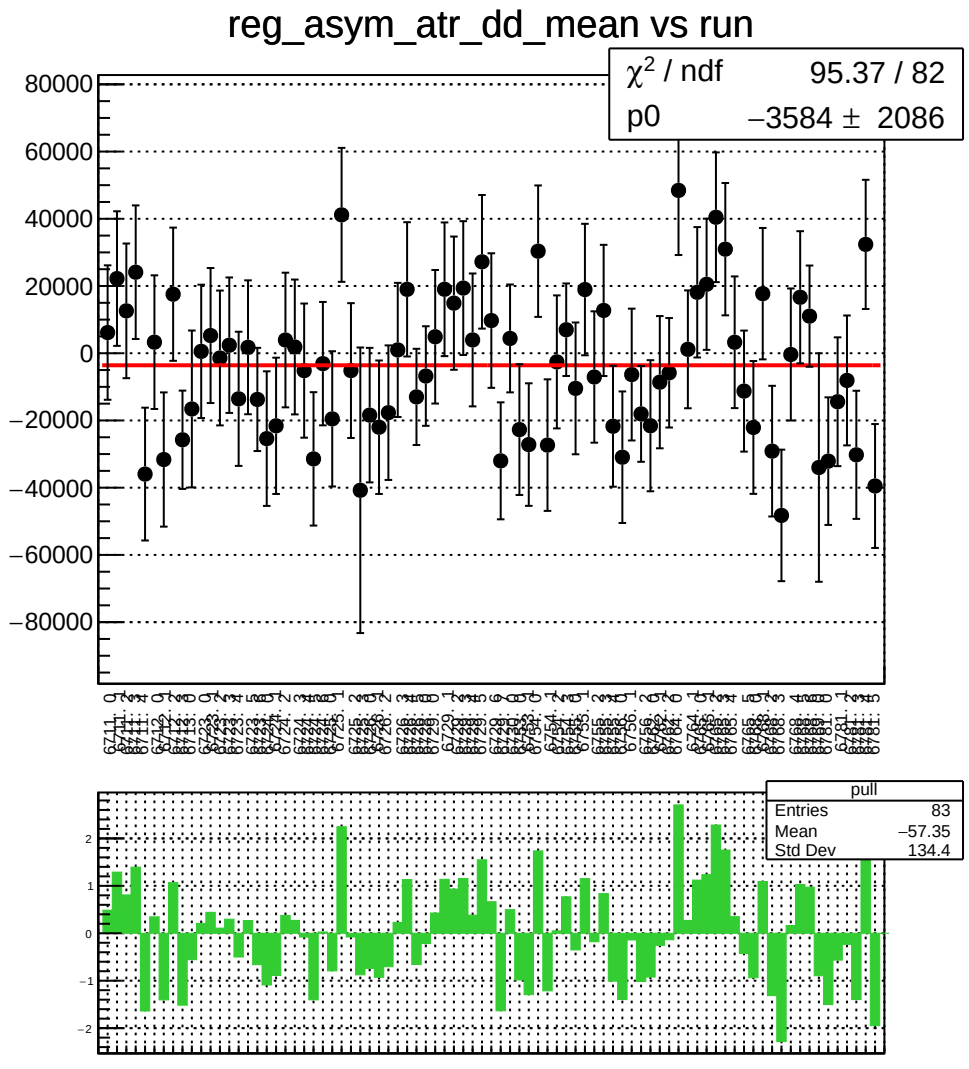

pull1D
Entries 83
Mean −0.0151
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

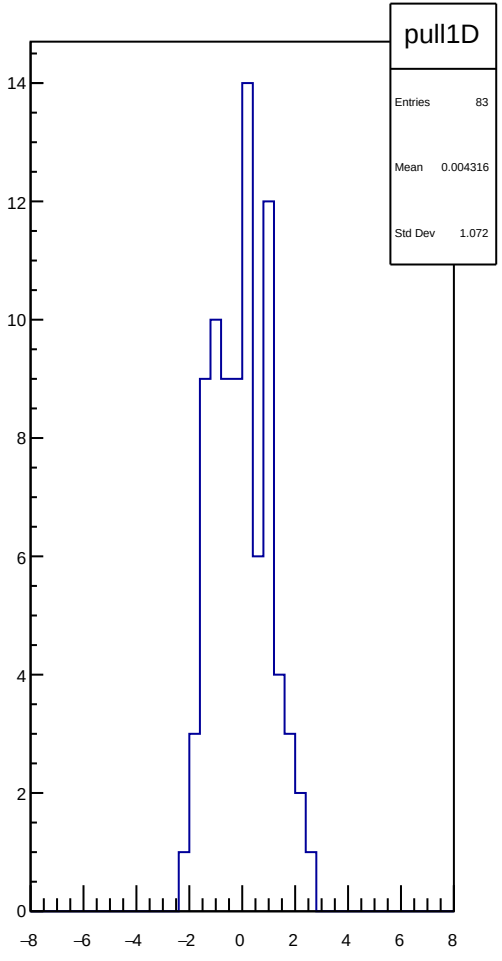

asym_atr_avg_correction_rms vs run
χ² / ndf 1.414e+04 / 82
p0 4107 ± 3.227
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

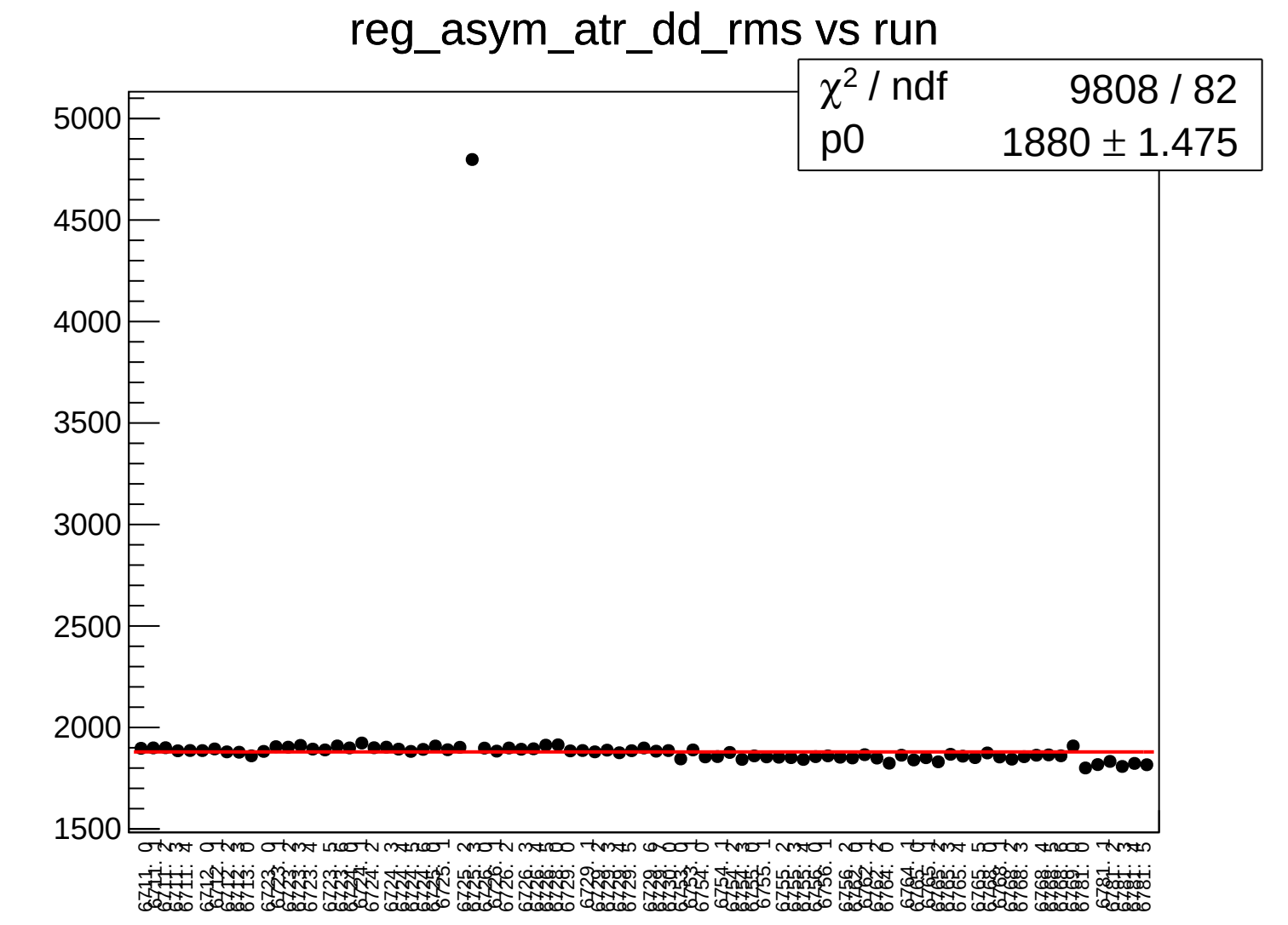

asym_atr_avg_mean vs run
×10^3
χ² / ndf 89.67 / 82
p0 −7536 ± 5051
150
100
50
0
−50
−100
−150
−200
pull
Entries 83
Mean −307
Std Dev 364.2
2
1
0
−1
−2

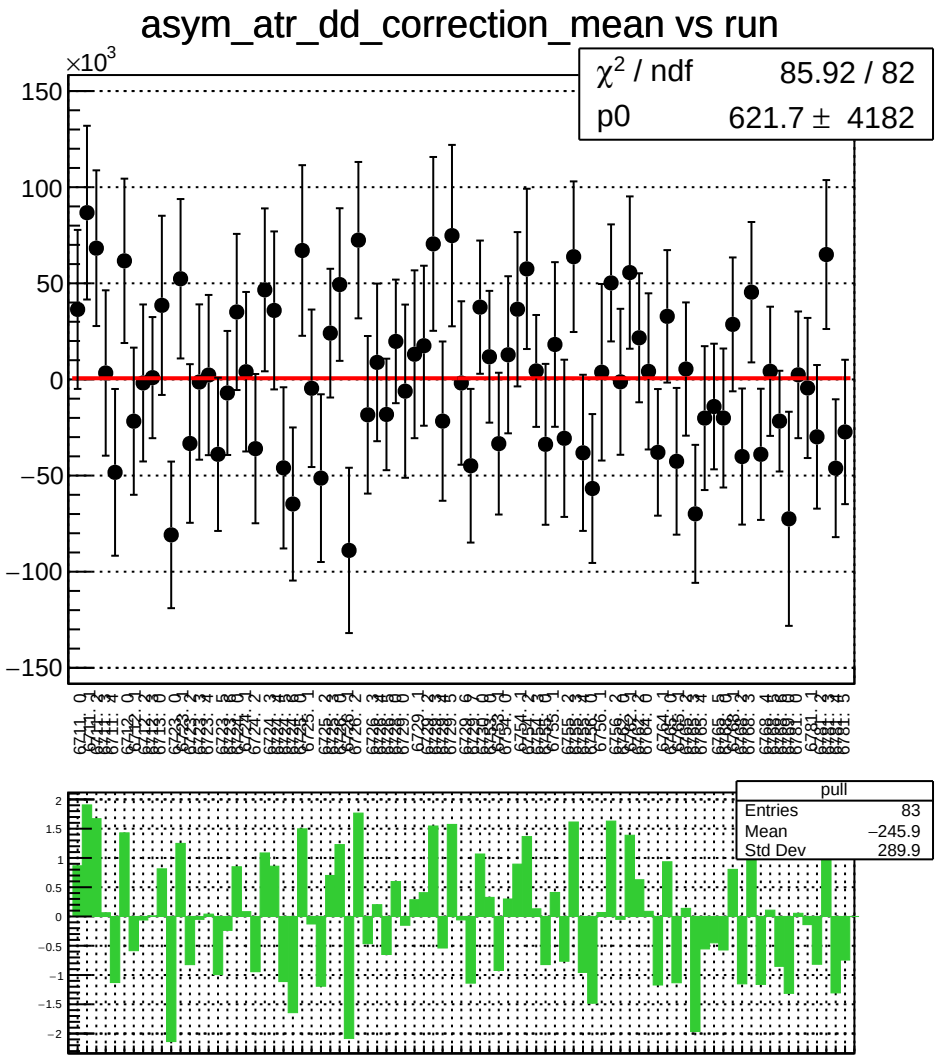

pull1D
Entries 83
Mean 0.004233
Std Dev 1.039
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

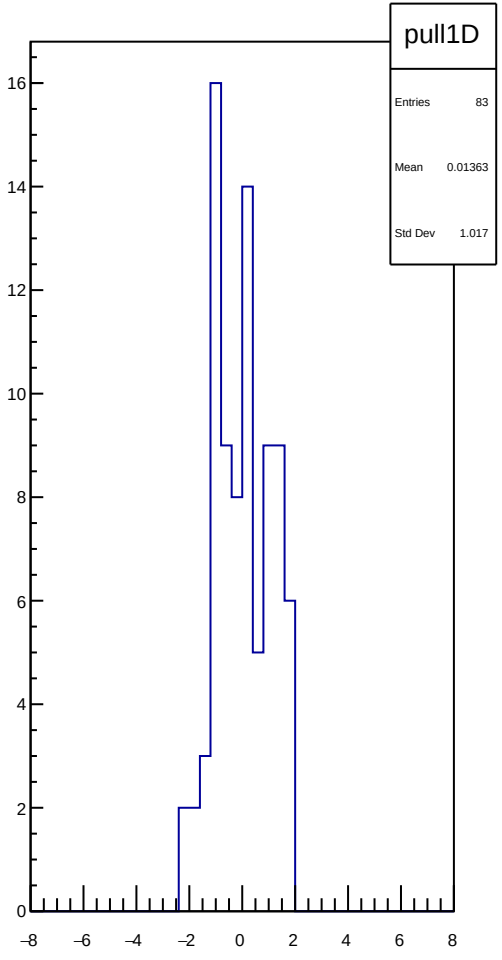

asym_atr_avg_rms vs run
χ^2 / ndf 1.217e+04 / 82
p0 4548 ± 3.571
6500
6000
5500
5000
4500
4000
3500

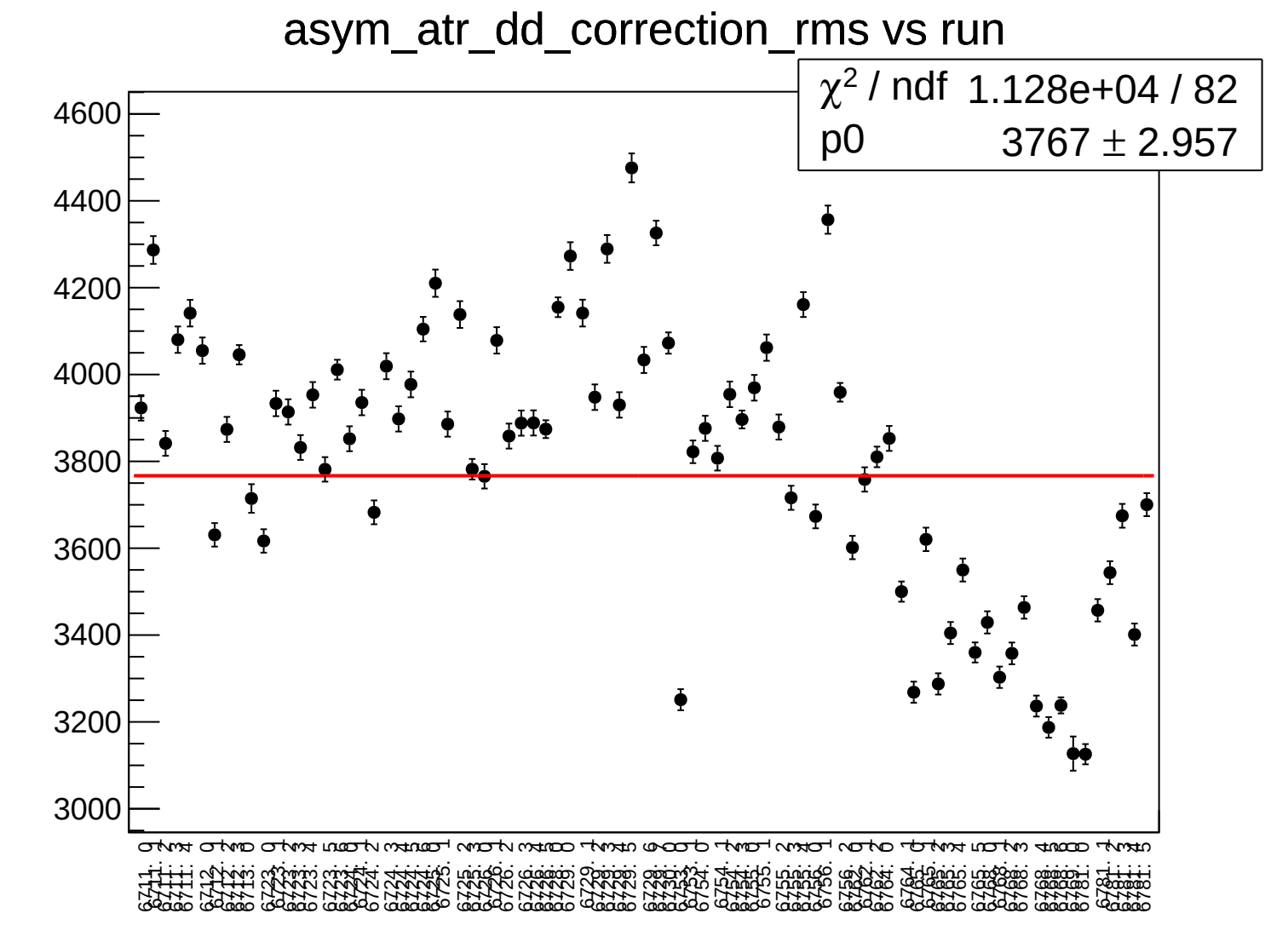

reg_asym_atr_dd_mean vs run
χ² / ndf 95.37 / 82
p0 −3584 ± 2086
pull
Entries 83
Mean −57.35
Std Dev 134.4

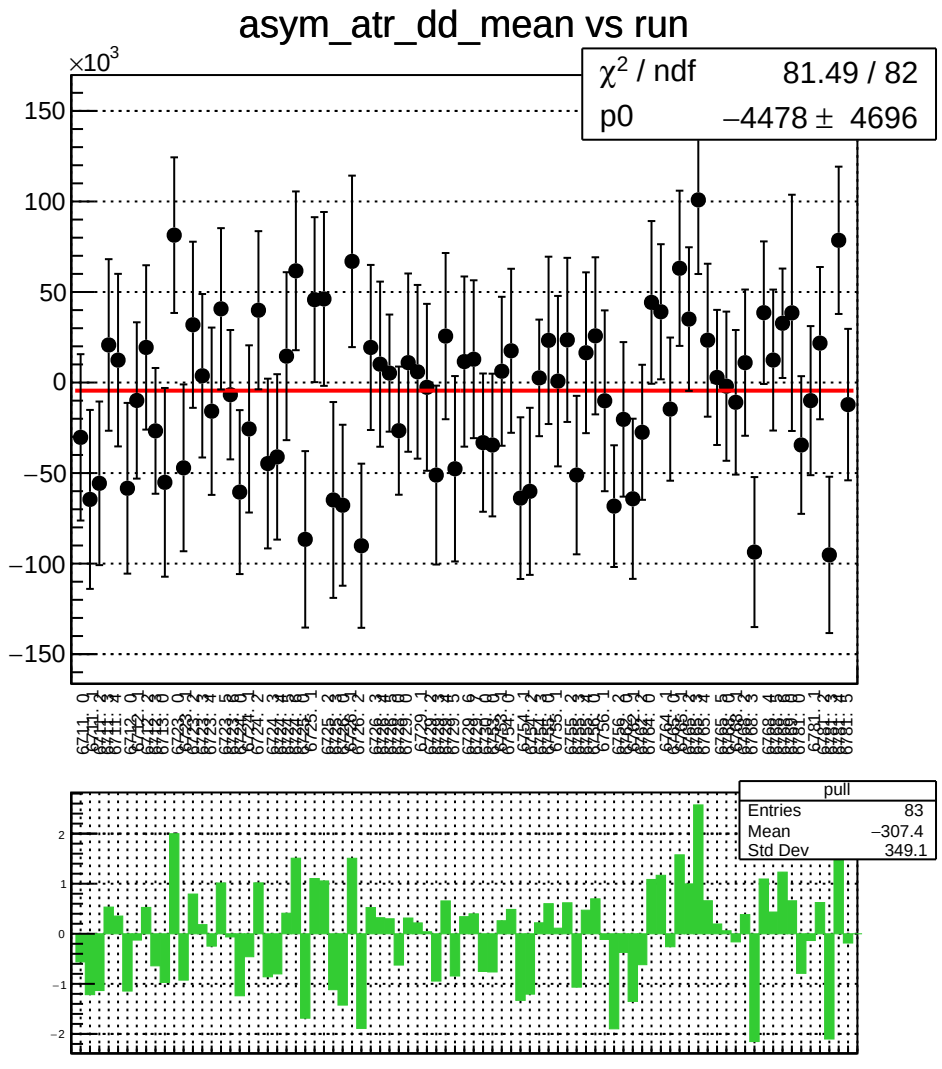

pull1D
Entries 83
Mean 0.004316
Std Dev 1.072

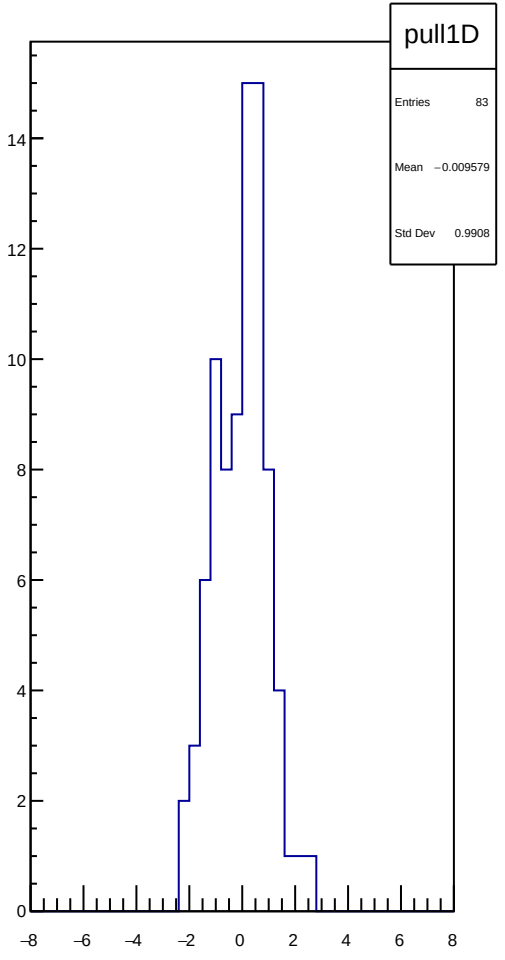

reg_asym_atr_dd_rms vs run
χ^2 / ndf 9808 / 82
p0 1880 ± 1.475
5000
4500
4000
3500
3000
2500
2000
1500

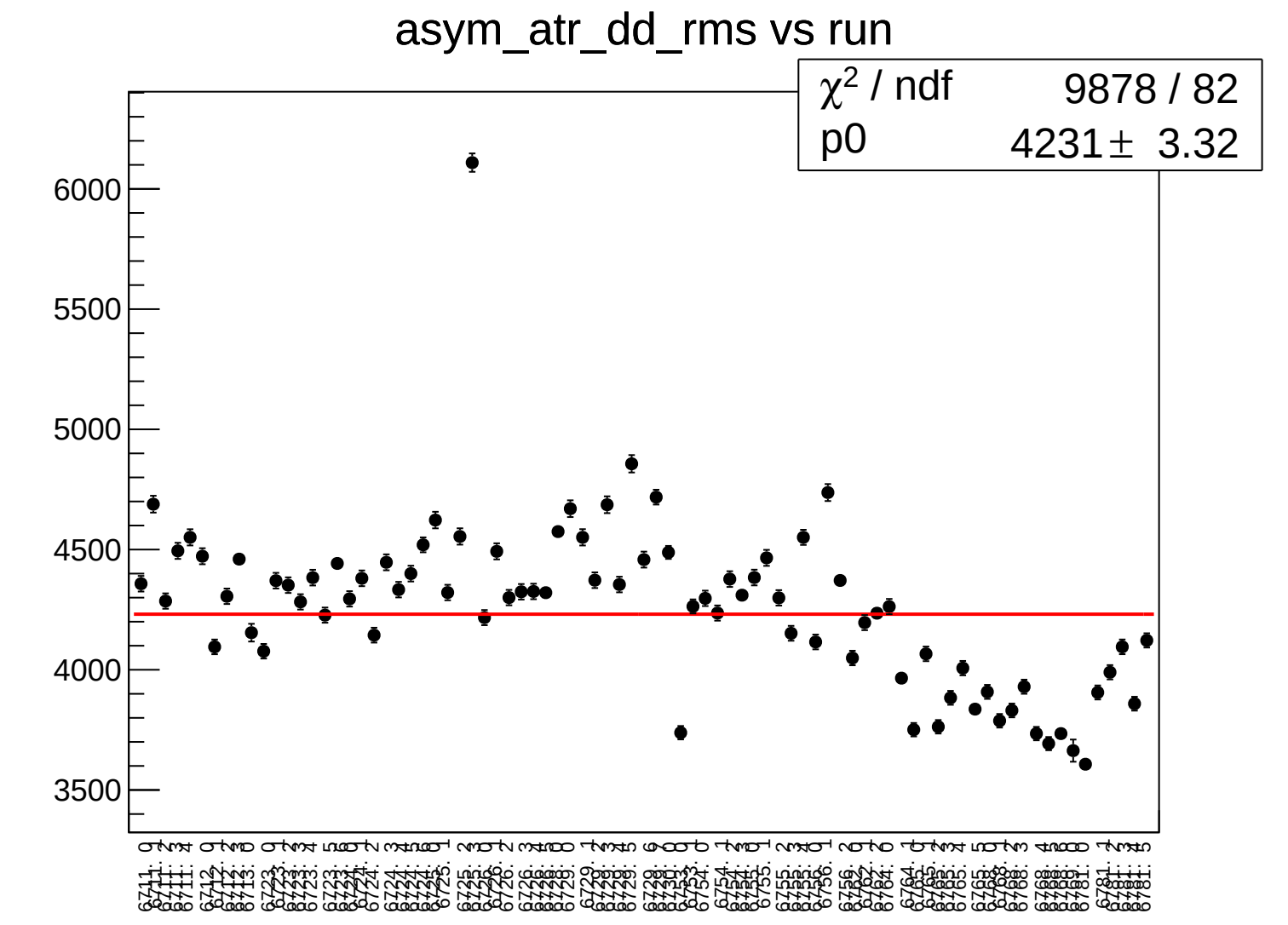

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 85.92 / 82
p0 621.7 ± 4182
pull
Entries 83
Mean −245.9
Std Dev 289.9

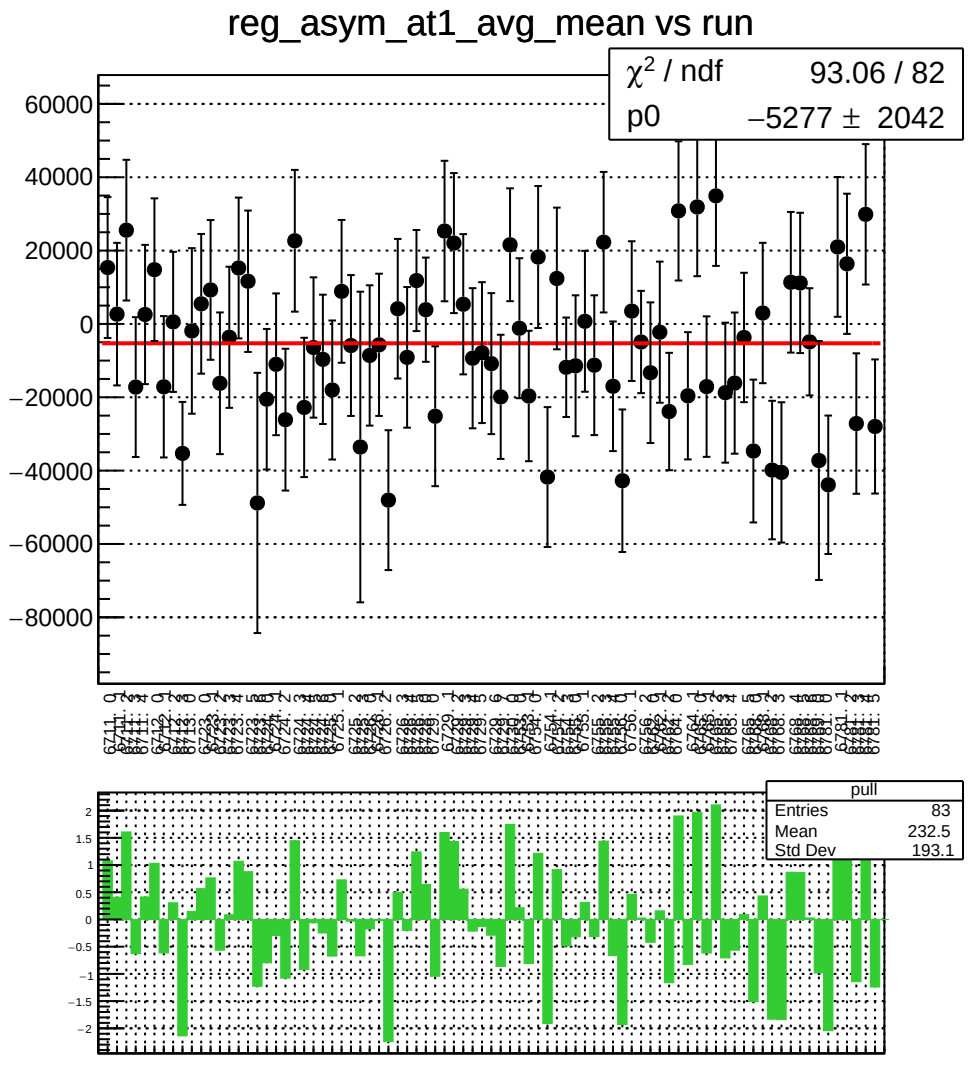

pull1D
Entries 83
Mean 0.01363
Std Dev 1.017

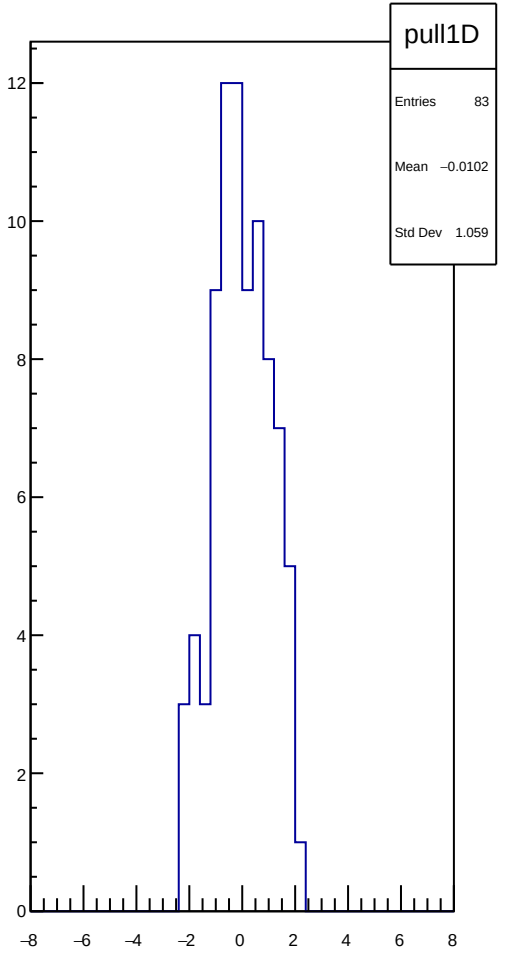

asym_atr_dd_correction_rms vs run
χ² / ndf 1.128e+04 / 82
p0 3767 ± 2.957
4600
4400
4200
4000
3800
3600
3400
3200
3000

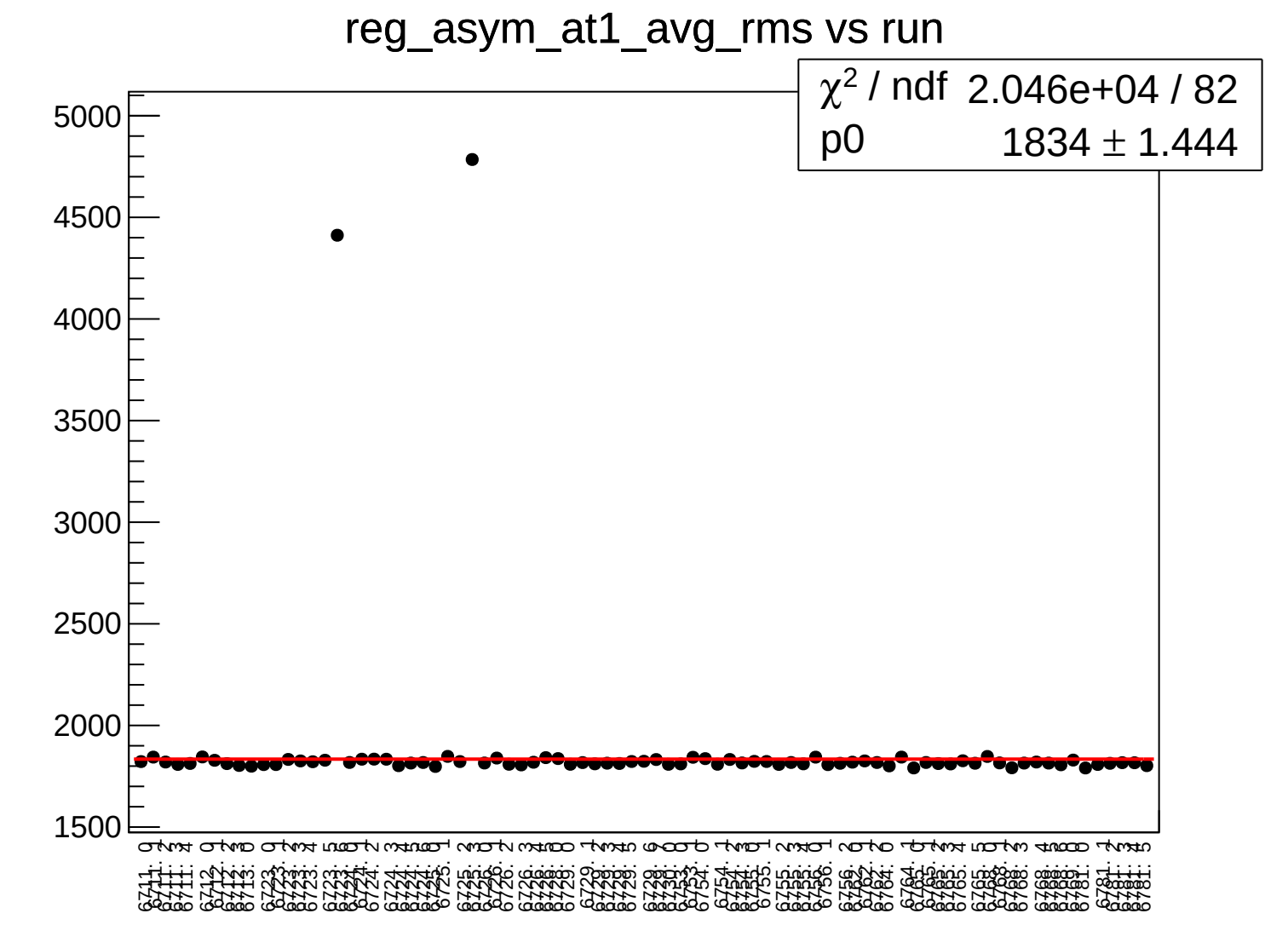

asym_atr_dd_mean vs run
×10^3
χ² / ndf 81.49 / 82
p0 −4478 ± 4696
150
100
50
0
−50
−100
−150
pull
Entries 83
Mean −307.4
Std Dev 349.1
2
1
0
−1
−2

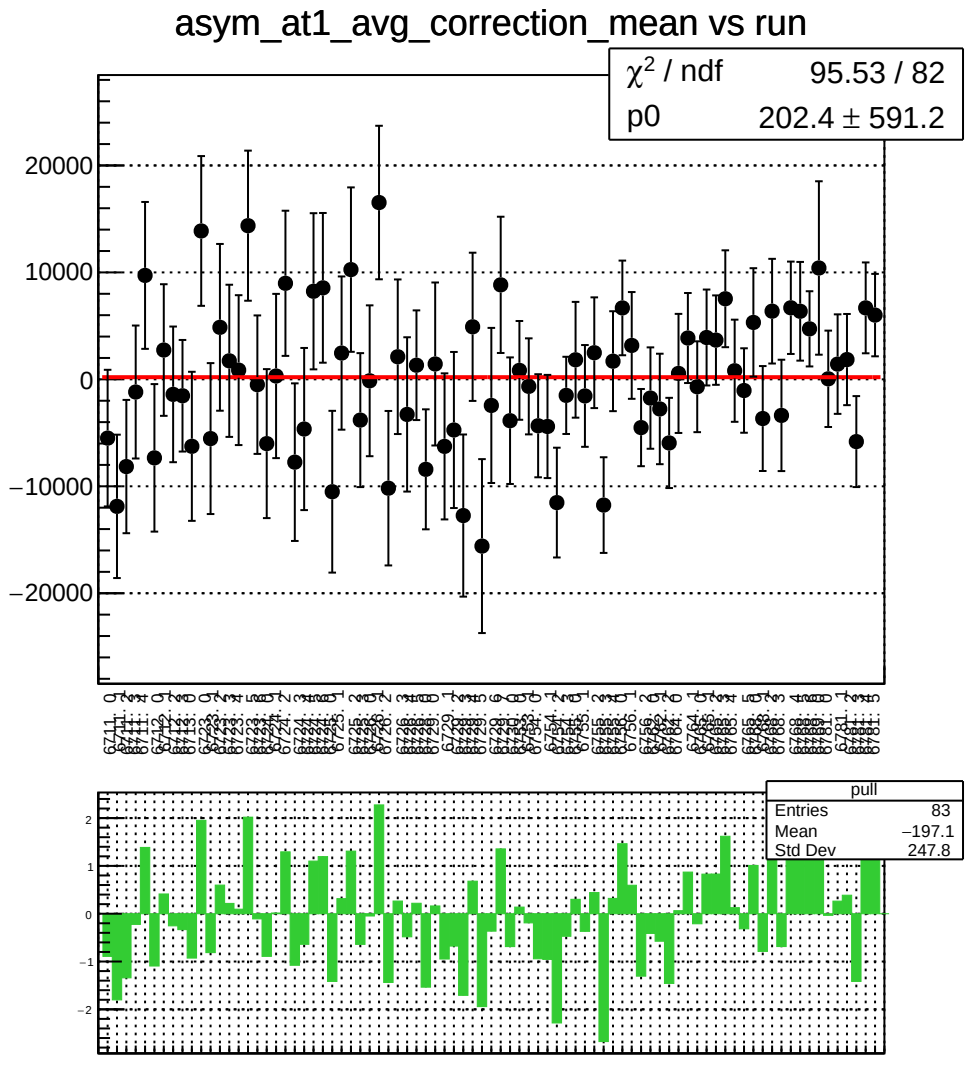

pull1D
Entries 83
Mean −0.009579
Std Dev 0.9908
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

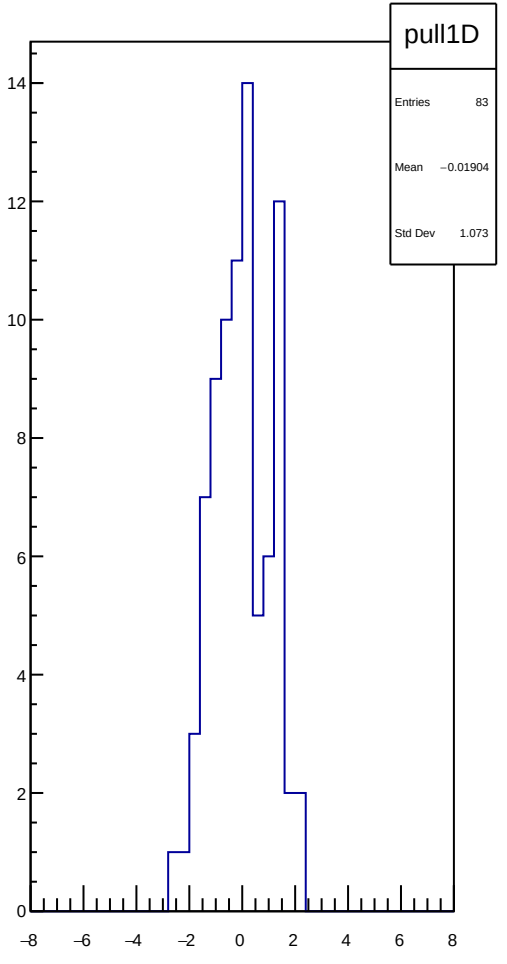

asym_atr_dd_rms vs run
χ² / ndf 9878 / 82
p0 4231 ± 3.32
6000
5500
5000
4500
4000
3500

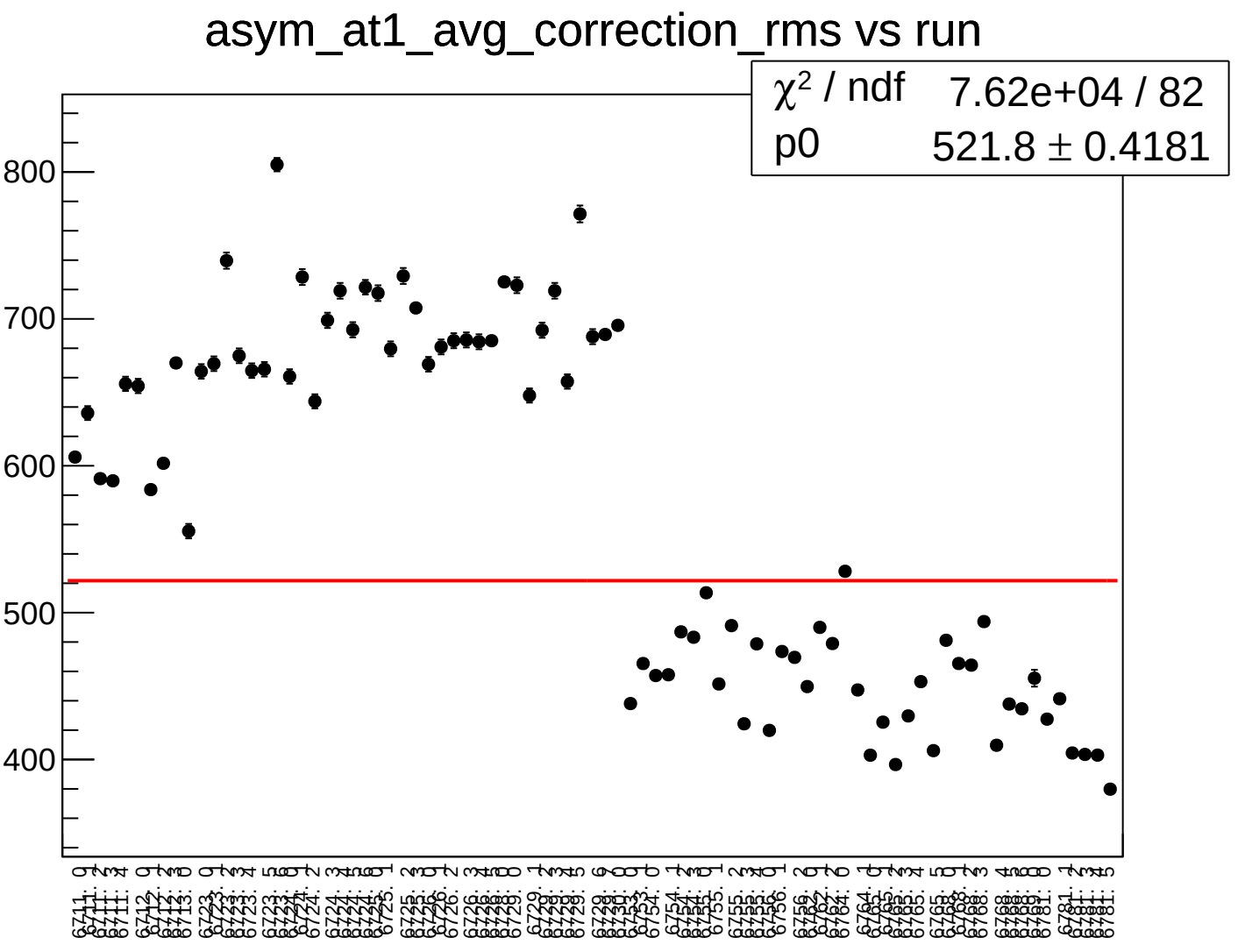

reg_asym_at1_avg_mean vs run
χ² / ndf 93.06 / 82
p0 −5277 ± 2042
pull
Entries 83
Mean 232.5
Std Dev 193.1

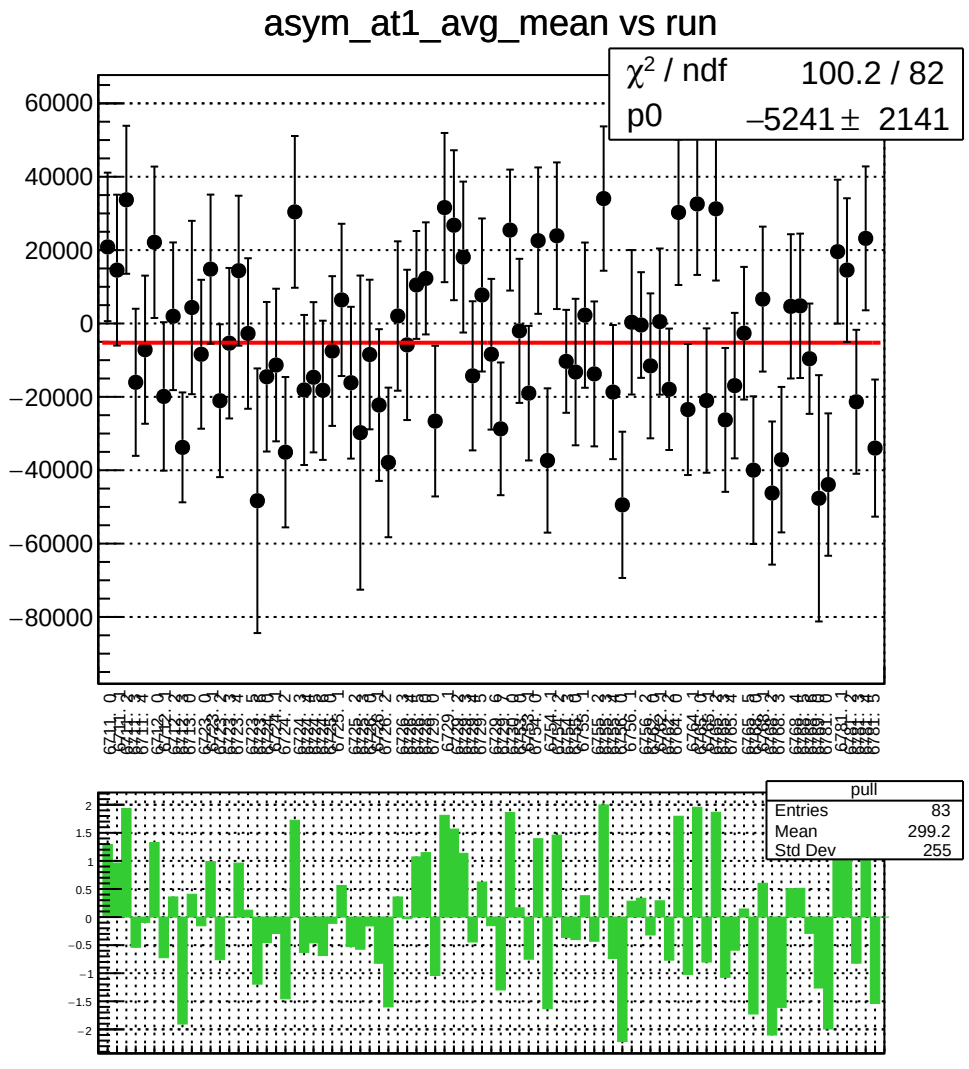

pull1D
Entries 83
Mean −0.0102
Std Dev 1.059

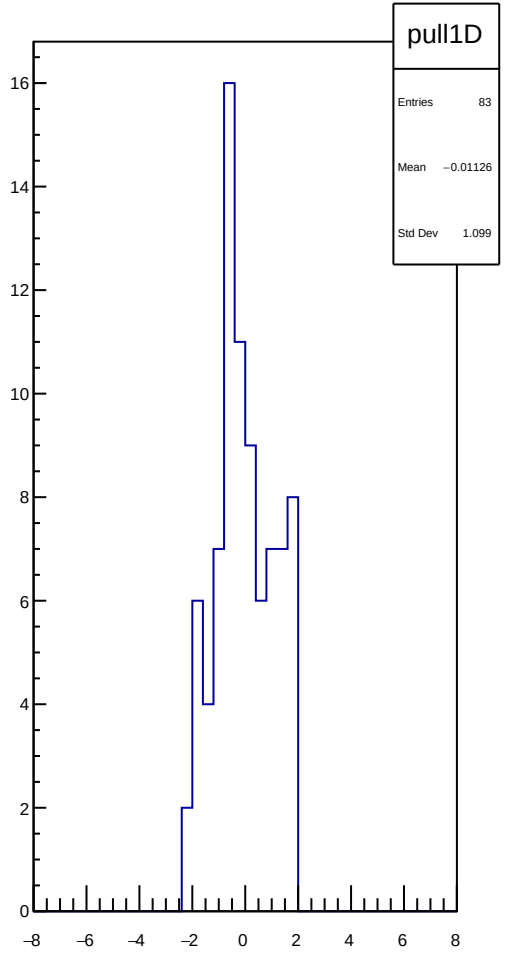

reg_asym_at1_avg_rms vs run
χ² / ndf 2.046e+04 / 82
p0 1834 ± 1.444
5000
4500
4000
3500
3000
2500
2000
1500

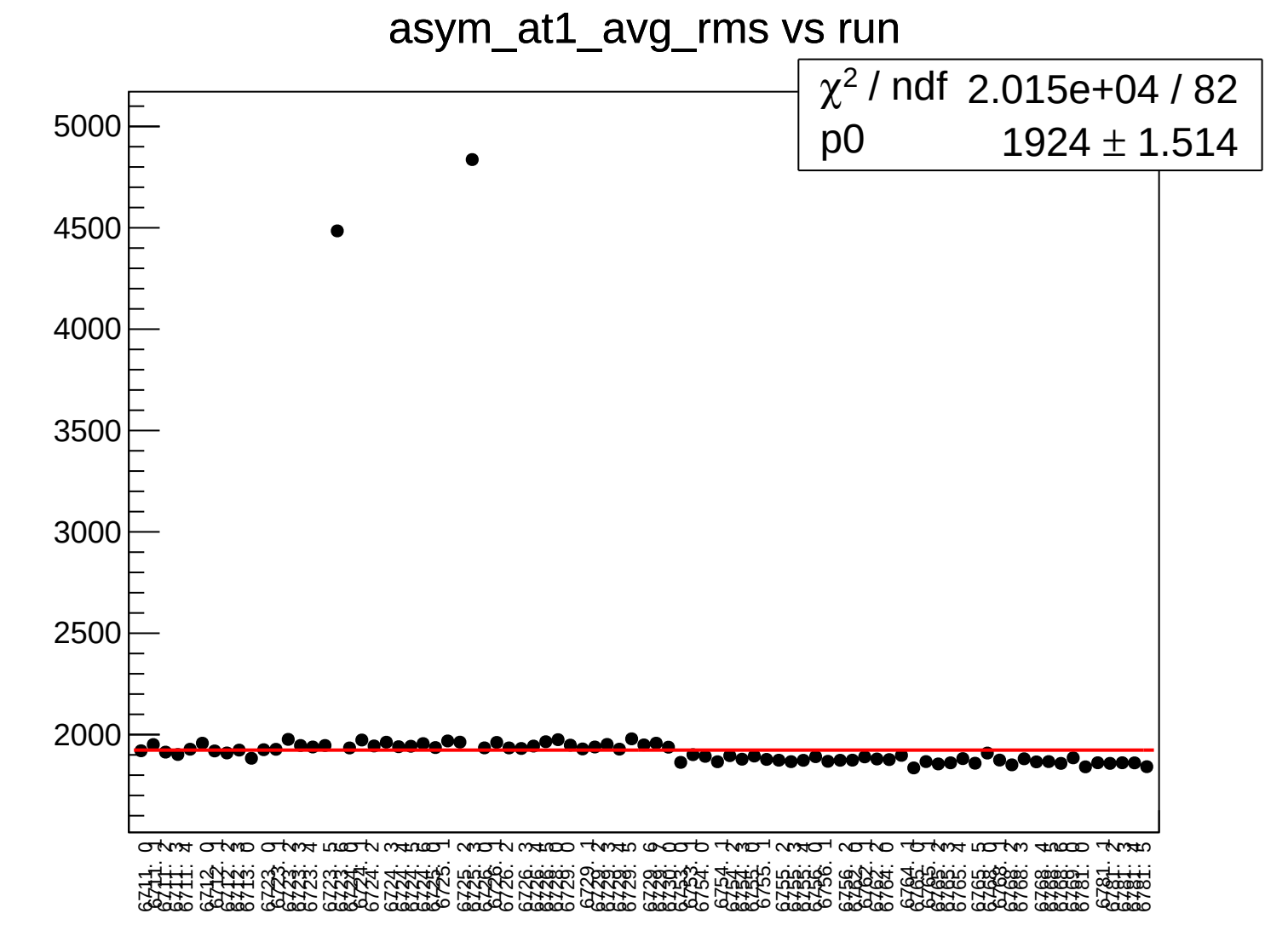

asym_at1_avg_correction_mean vs run
χ² / ndf 95.53 / 82
p0 202.4 ± 591.2
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −197.1
Std Dev 247.8
2
1
0
−1
−2

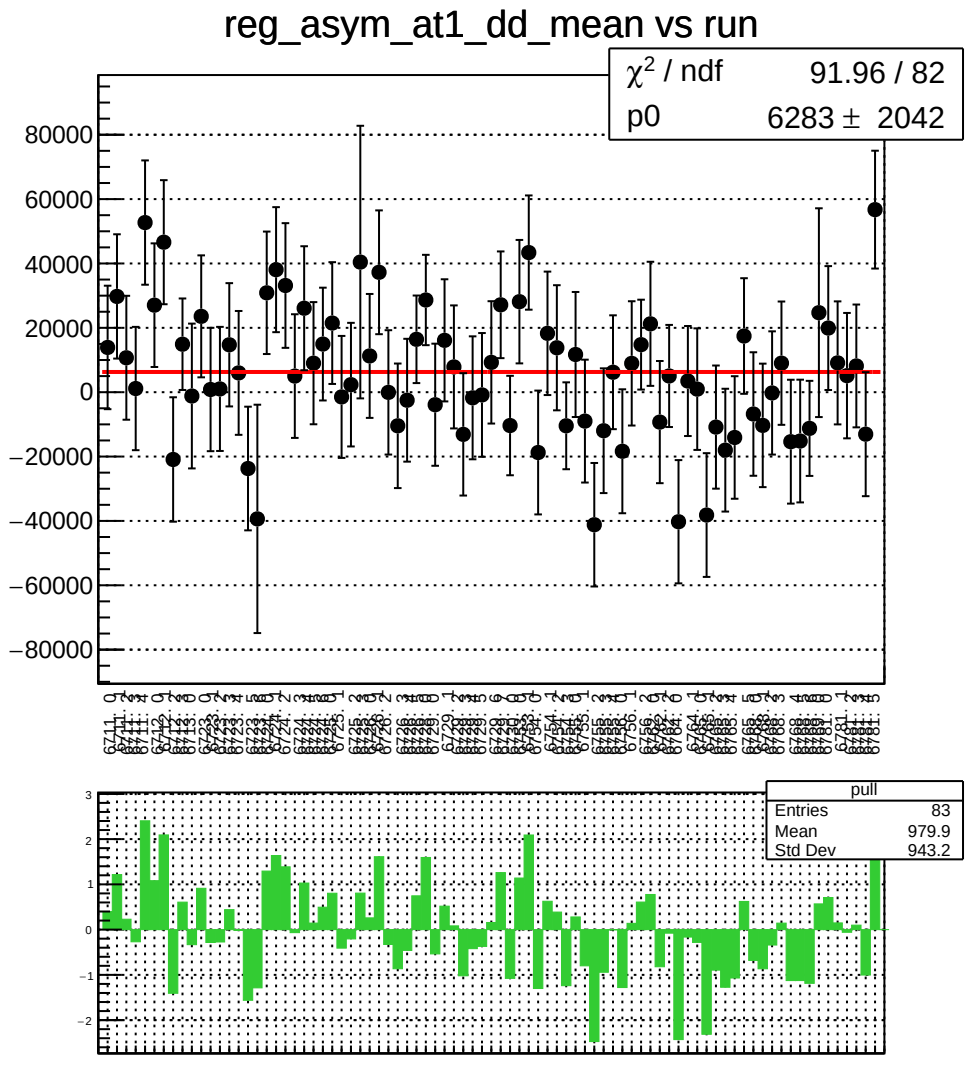

pull1D
Entries 83
Mean −0.01904
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

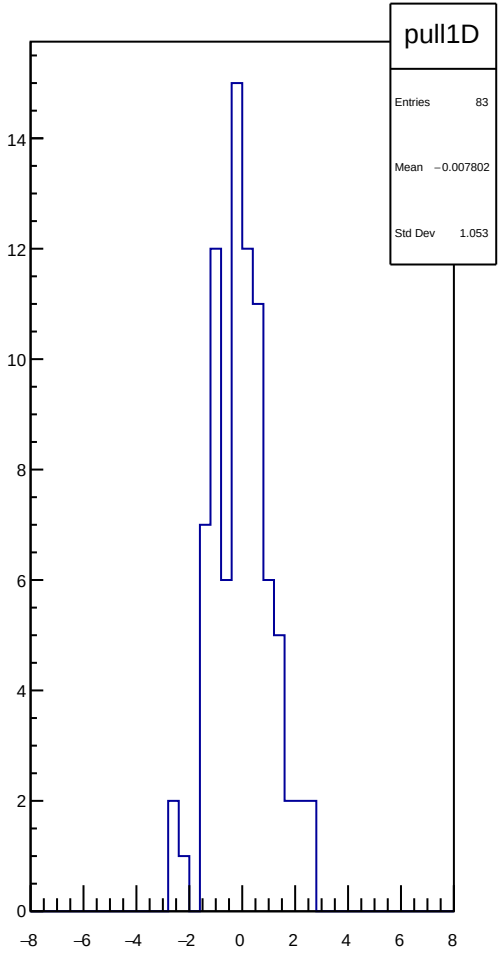

asym_at1_avg_correction_rms vs run
χ² / ndf 7.62e+04 / 82
p0 521.8 ± 0.4181
800
700
600
500
400

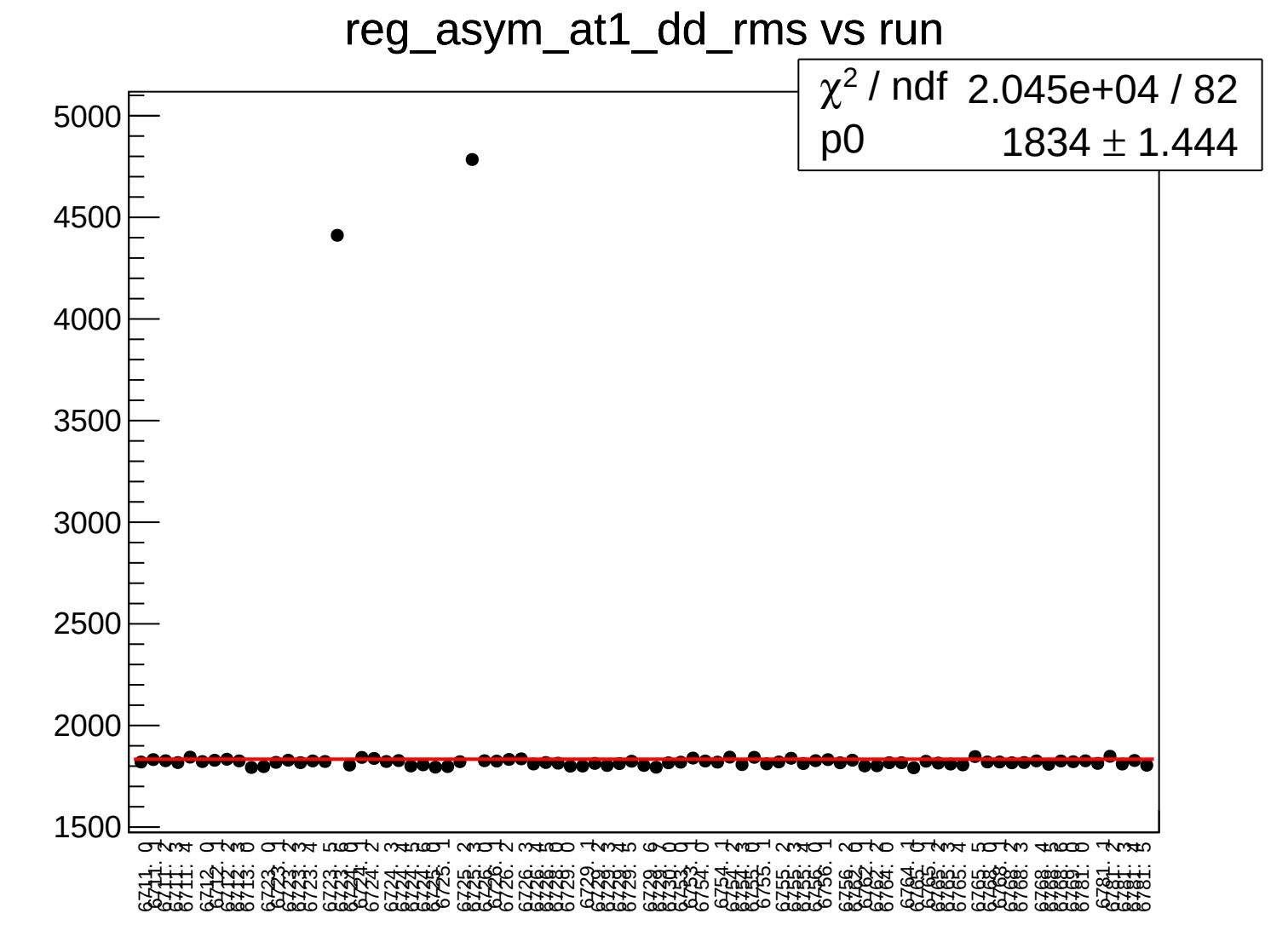

asym_at1_avg_mean vs run
χ² / ndf 100.2 / 82
p0 −5241 ± 2141
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 83
Mean 299.2
Std Dev 255
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

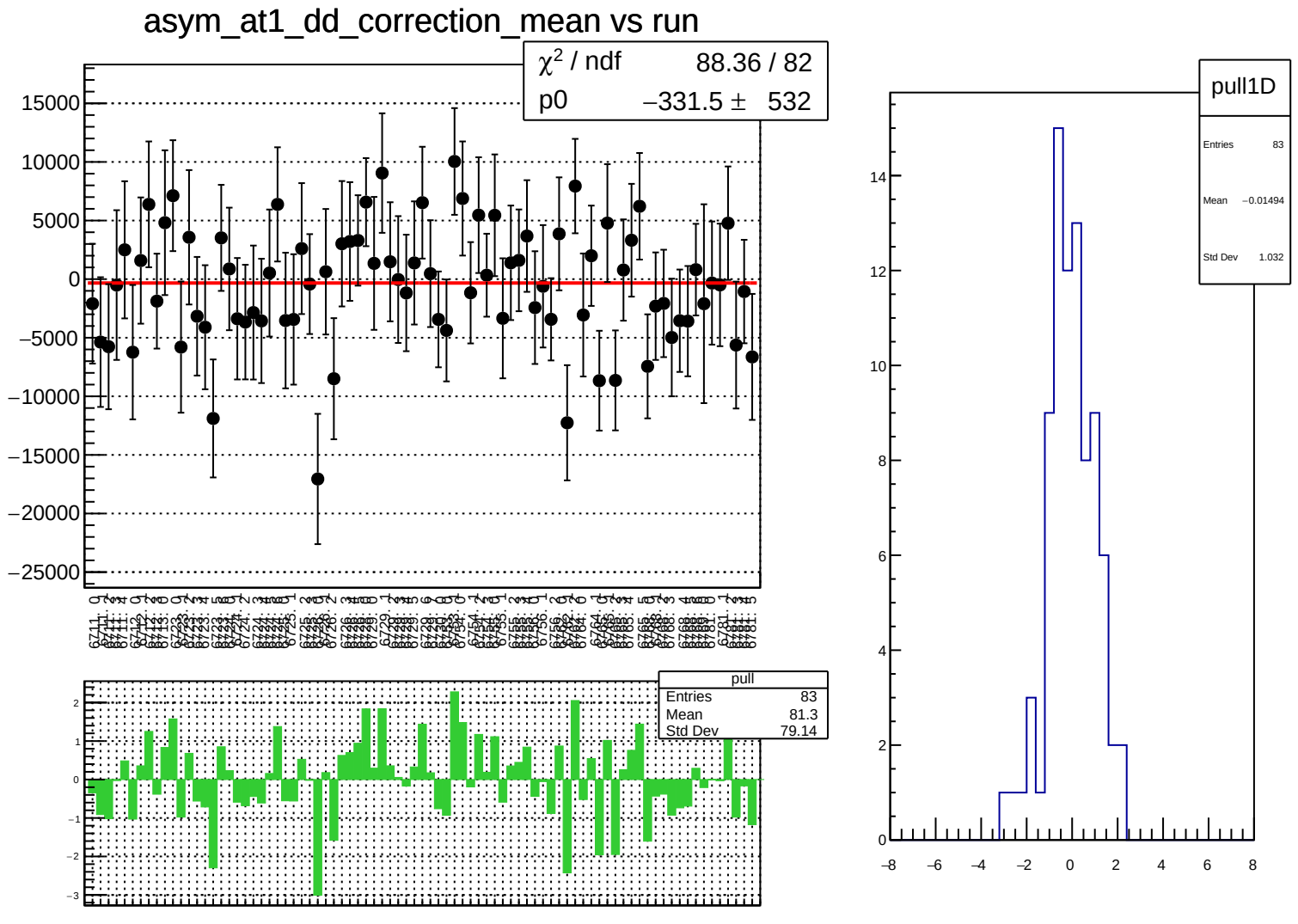

pull1D
Entries 83
Mean −0.01126
Std Dev 1.099
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

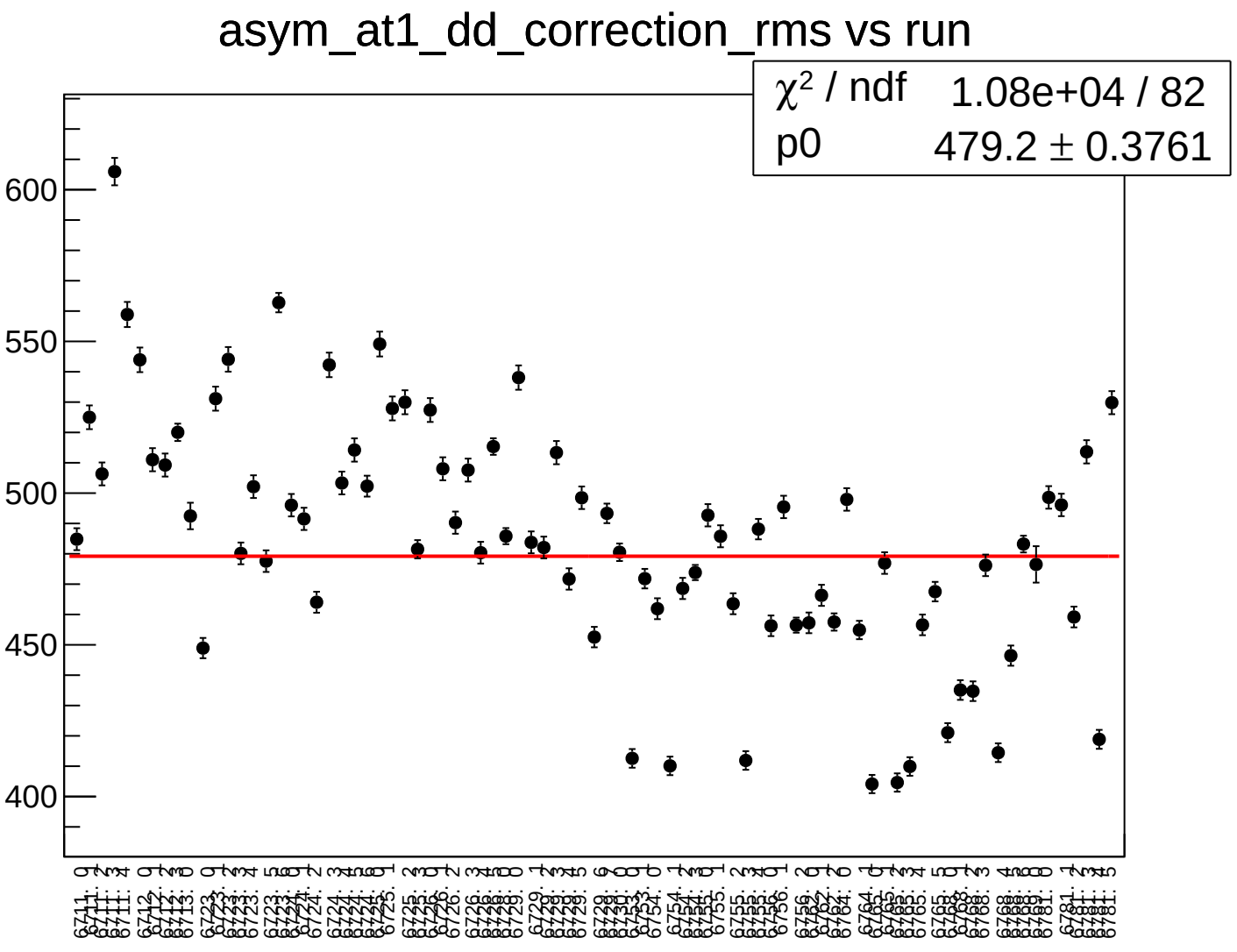

asym_at1_avg_rms vs run
χ^2 / ndf 2.015e+04 / 82
p0 1924 ± 1.514
5000
4500
4000
3500
3000
2500
2000

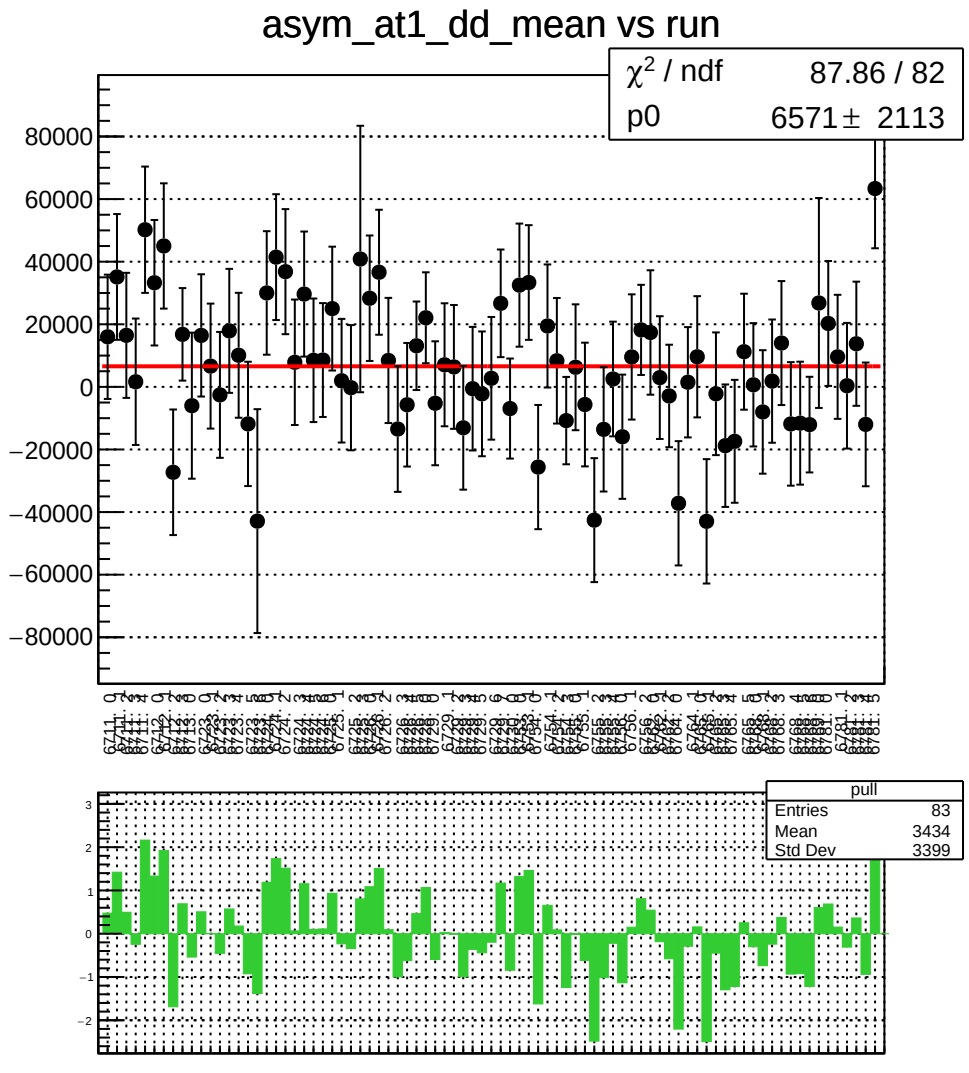

reg_asym_at1_dd_mean vs run
χ² / ndf 91.96 / 82
p0 6283 ± 2042
pull
Entries 83
Mean 979.9
Std Dev 943.2

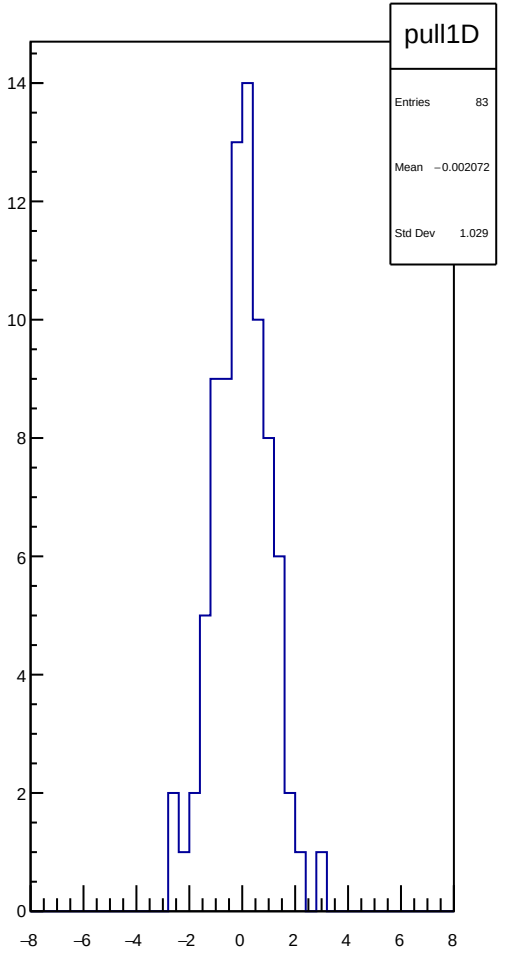

pull1D
Entries 83
Mean −0.007802
Std Dev 1.053

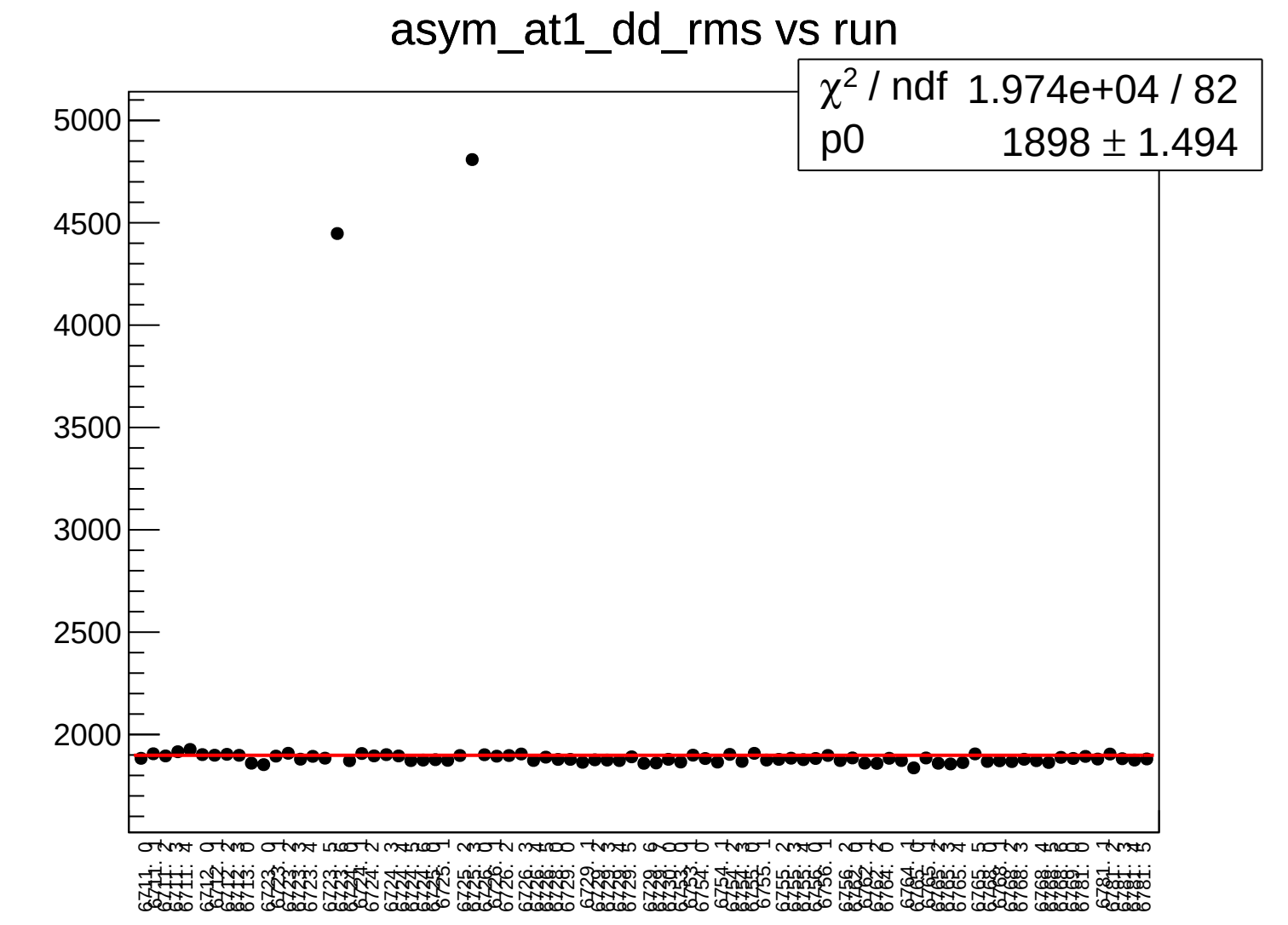

reg_asym_at1_dd_rms vs run
χ^2 / ndf 2.045e+04 / 82
p0 1834 ± 1.444
5000
4500
4000
3500
3000
2500
2000
1500

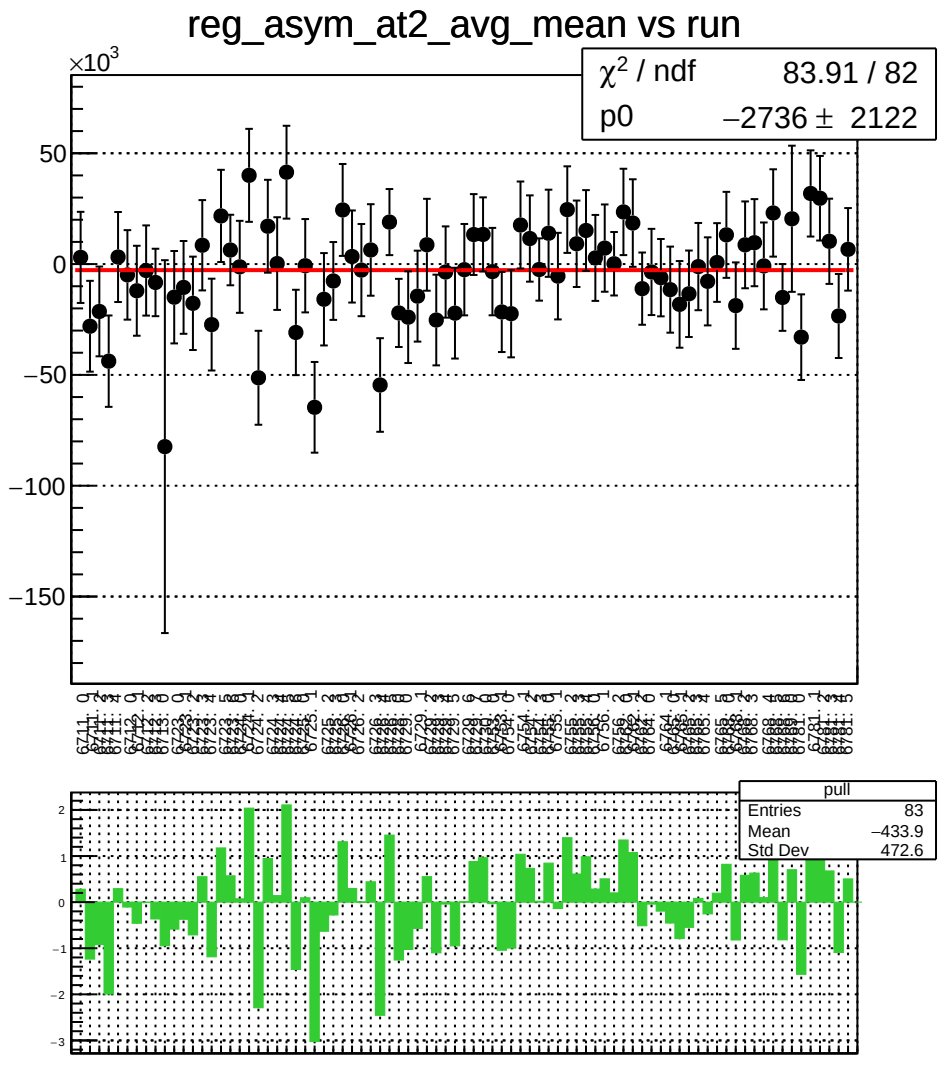

asym_at1_dd_correction_mean vs run
χ² / ndf 88.36 / 82
p0 −331.5 ± 532
pull
Entries 83
Mean 81.3
Std Dev 79.14
pull1D
Entries 83
Mean −0.01494
Std Dev 1.032

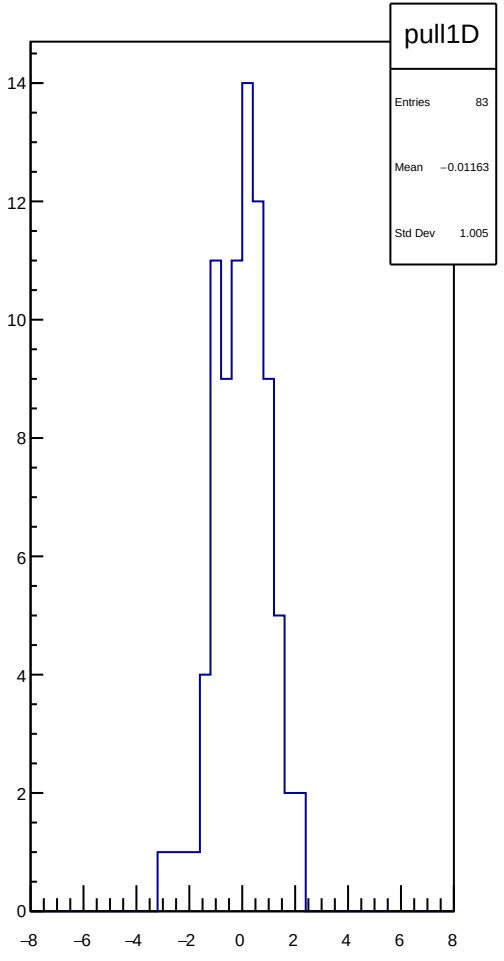

asym_at1_dd_correction_rms vs run
χ² / ndf 1.08e+04 / 82
p0 479.2 ± 0.3761
600
550
500
450
400

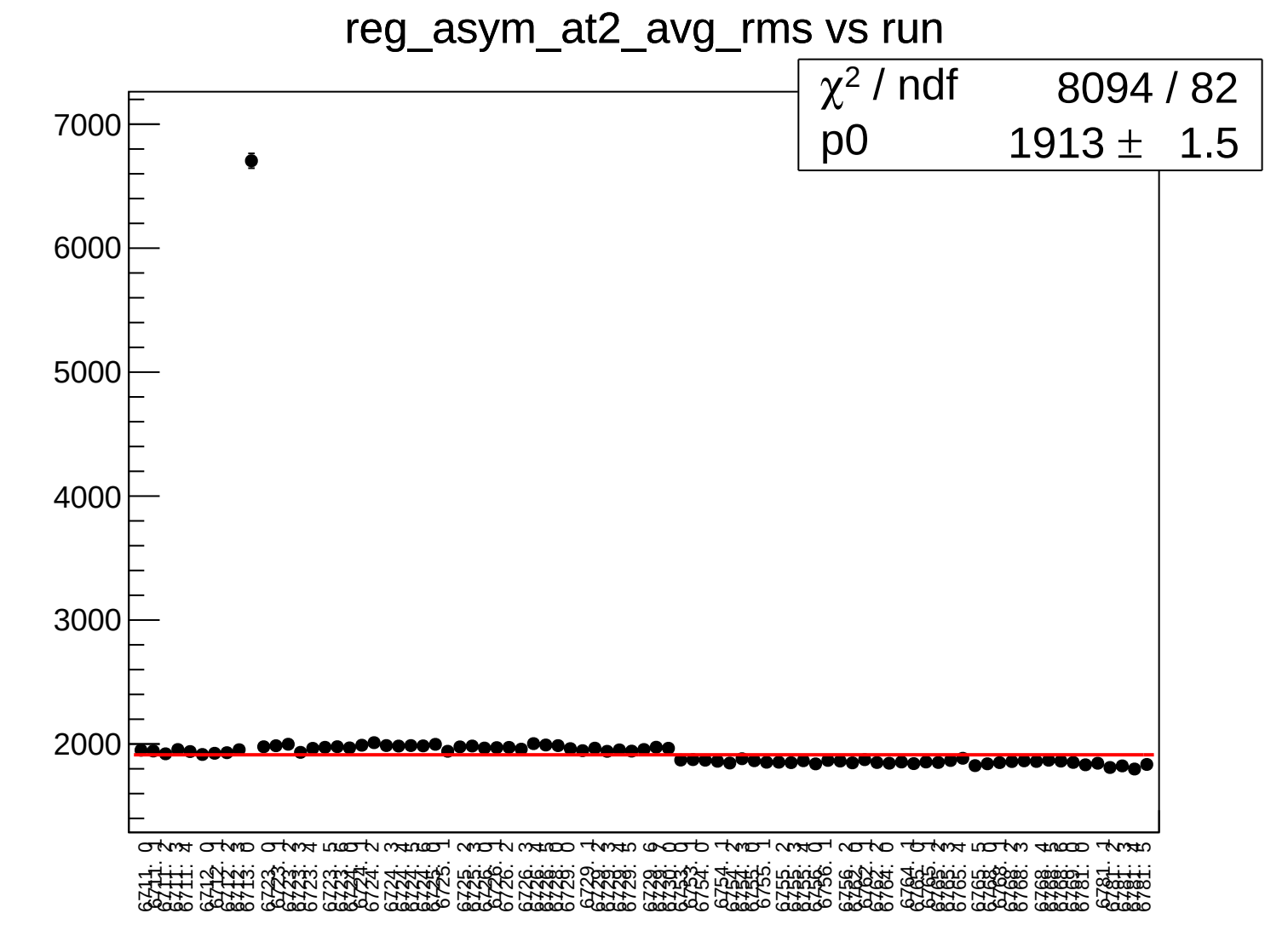

asym_at1_dd_mean vs run
χ² / ndf 87.86 / 82
p0 6571 ± 2113
pull
Entries 83
Mean 3434
Std Dev 3399

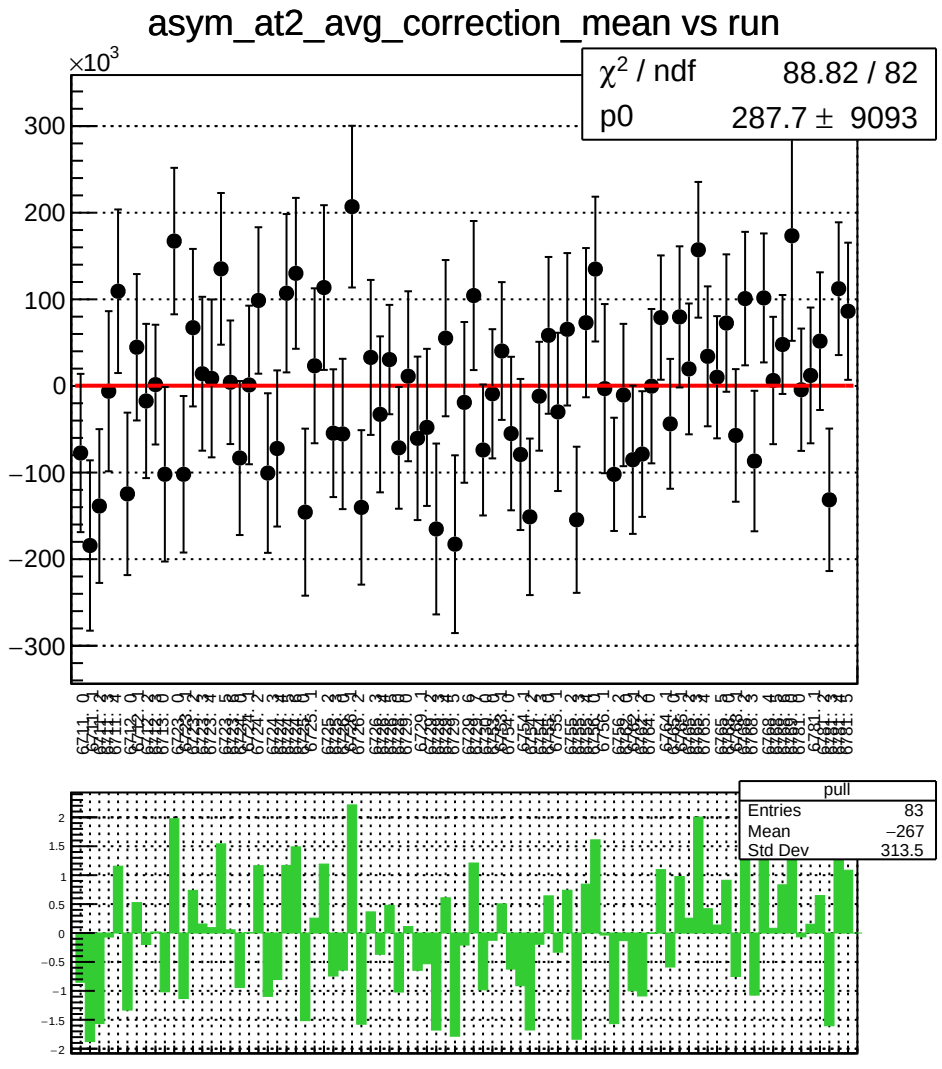

pull1D
Entries 83
Mean −0.002072
Std Dev 1.029

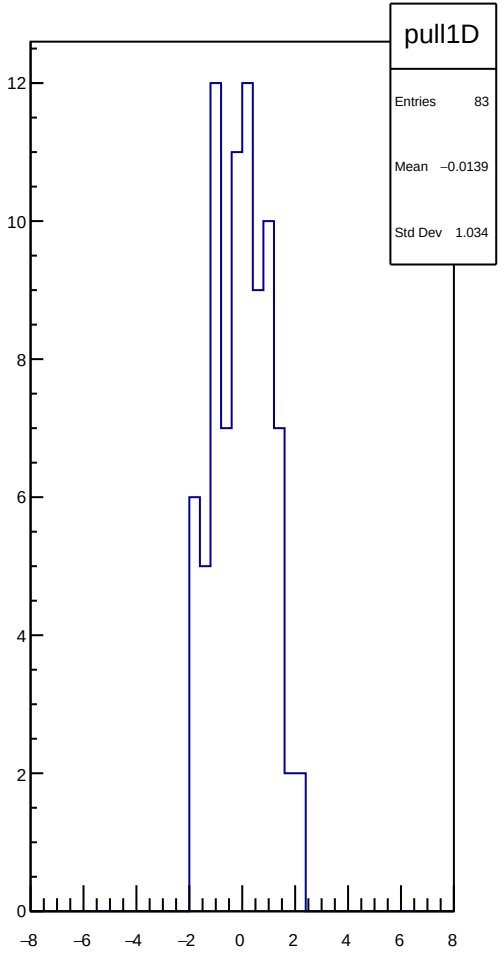

asym_at1_dd_rms vs run
χ^2 / ndf 1.974e+04 / 82
p0 1898 ± 1.494
5000
4500
4000
3500
3000
2500
2000

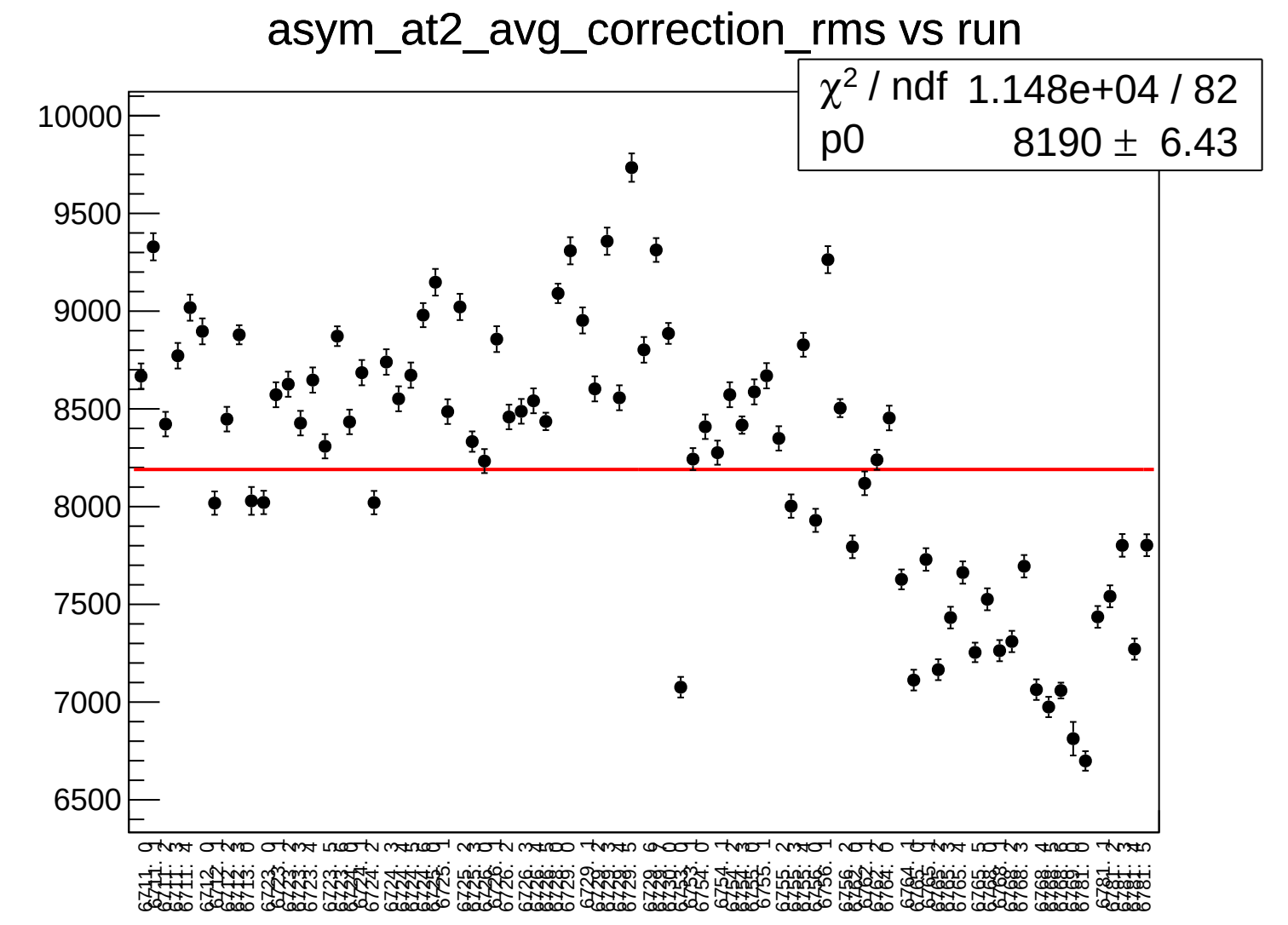

reg_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 83.91 / 82
p0 −2736 ± 2122
50
0
−50
−100
−150
pull
Entries 83
Mean −433.9
Std Dev 472.6
2
1
0
−1
−2
−3

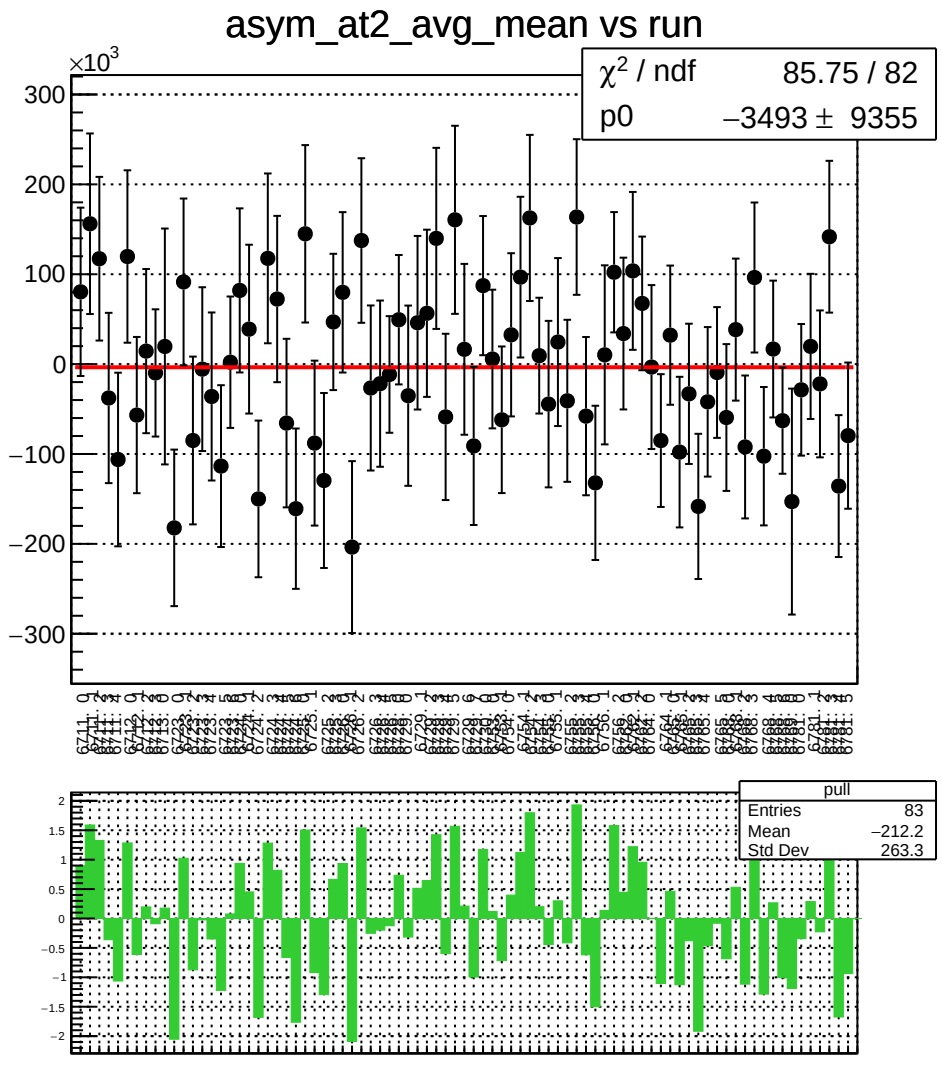

pull1D
Entries 83
Mean −0.01163
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

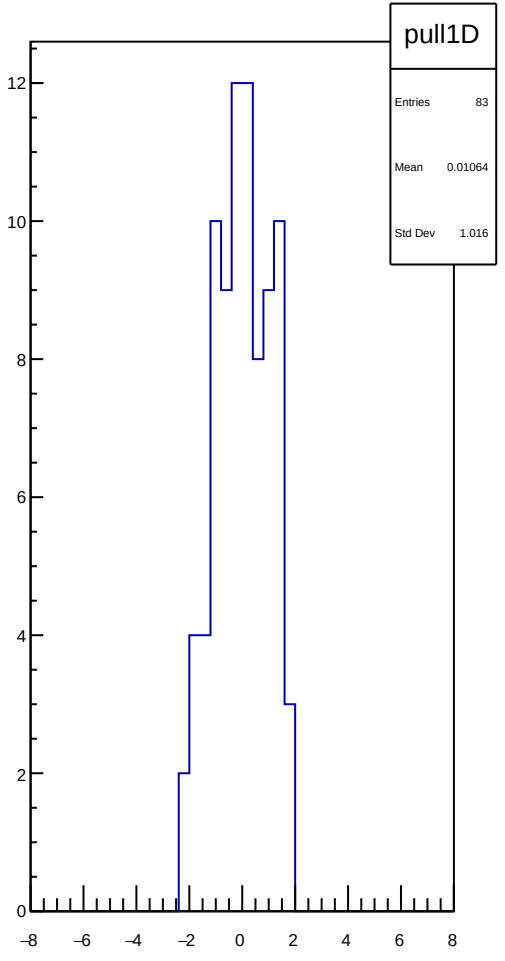

reg_asym_at2_avg_rms vs run
χ² / ndf 8094 / 82
p0 1913 ± 1.5
7000
6000
5000
4000
3000
2000

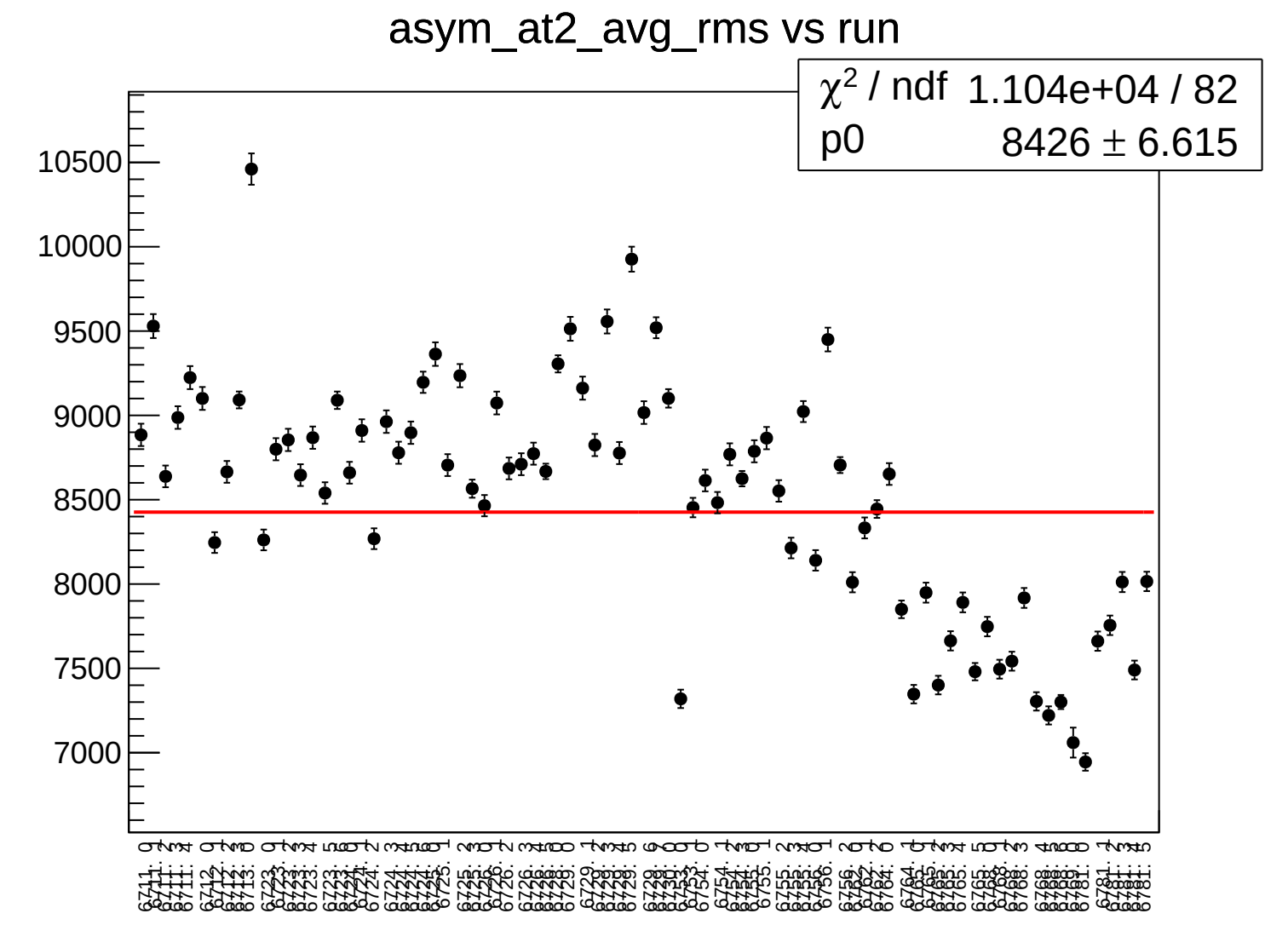

asym_at2_avg_correction_mean vs run
χ² / ndf 88.82 / 82
p0 287.7 ± 9093
pull
Entries 83
Mean −267
Std Dev 313.5

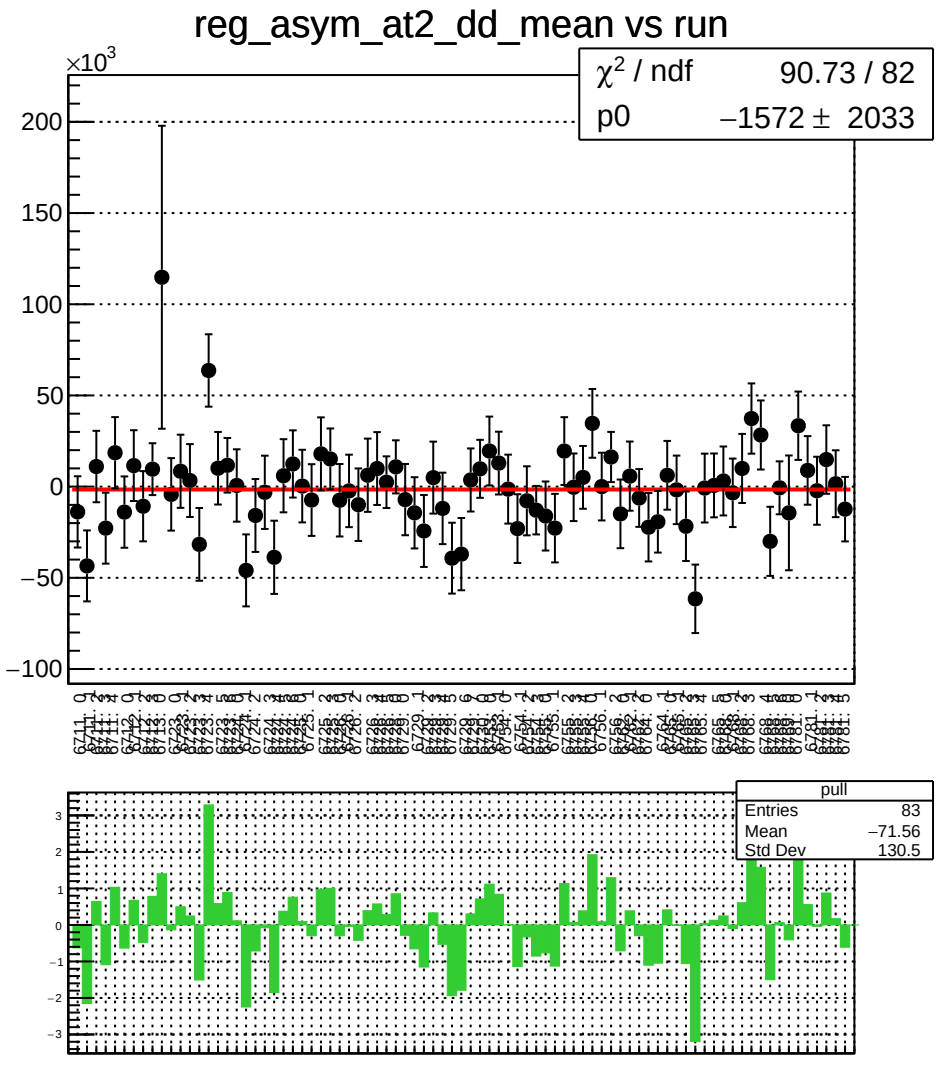

pull1D
Entries 83
Mean −0.0139
Std Dev 1.034

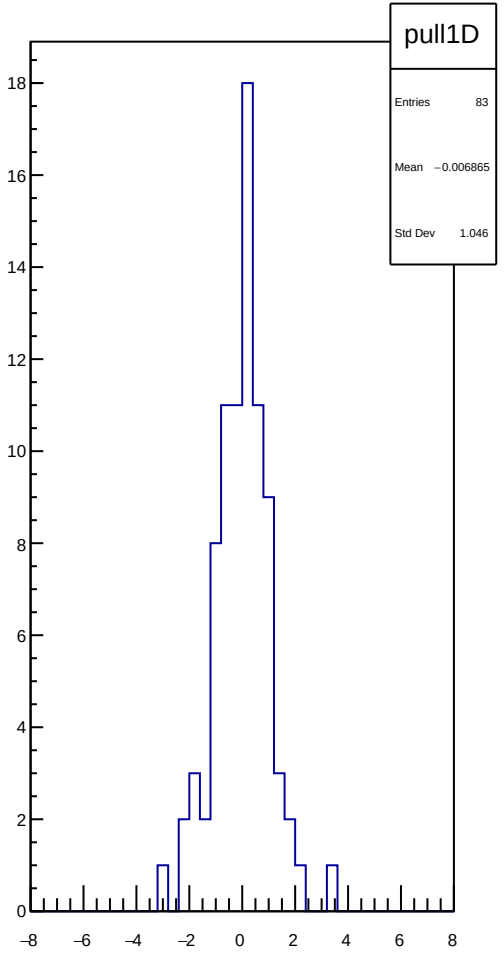

asym_at2_avg_correction_rms vs run
χ² / ndf 1.148e+04 / 82
p0 8190 ± 6.43
10000
9500
9000
8500
8000
7500
7000
6500

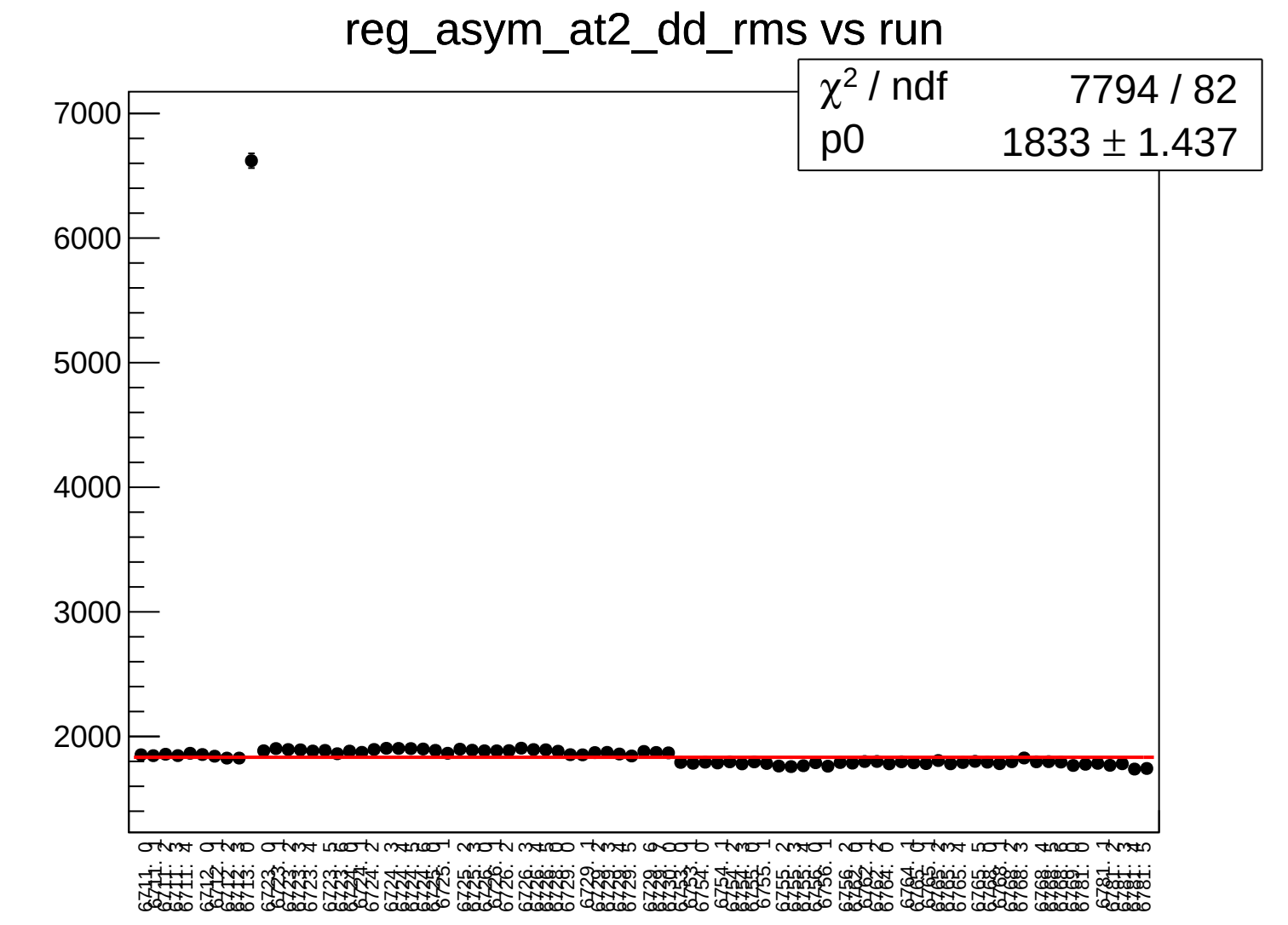

asym_at2_avg_mean vs run
×10^3
χ² / ndf 85.75 / 82
p0 −3493 ± 9355
pull
Entries 83
Mean −212.2
Std Dev 263.3

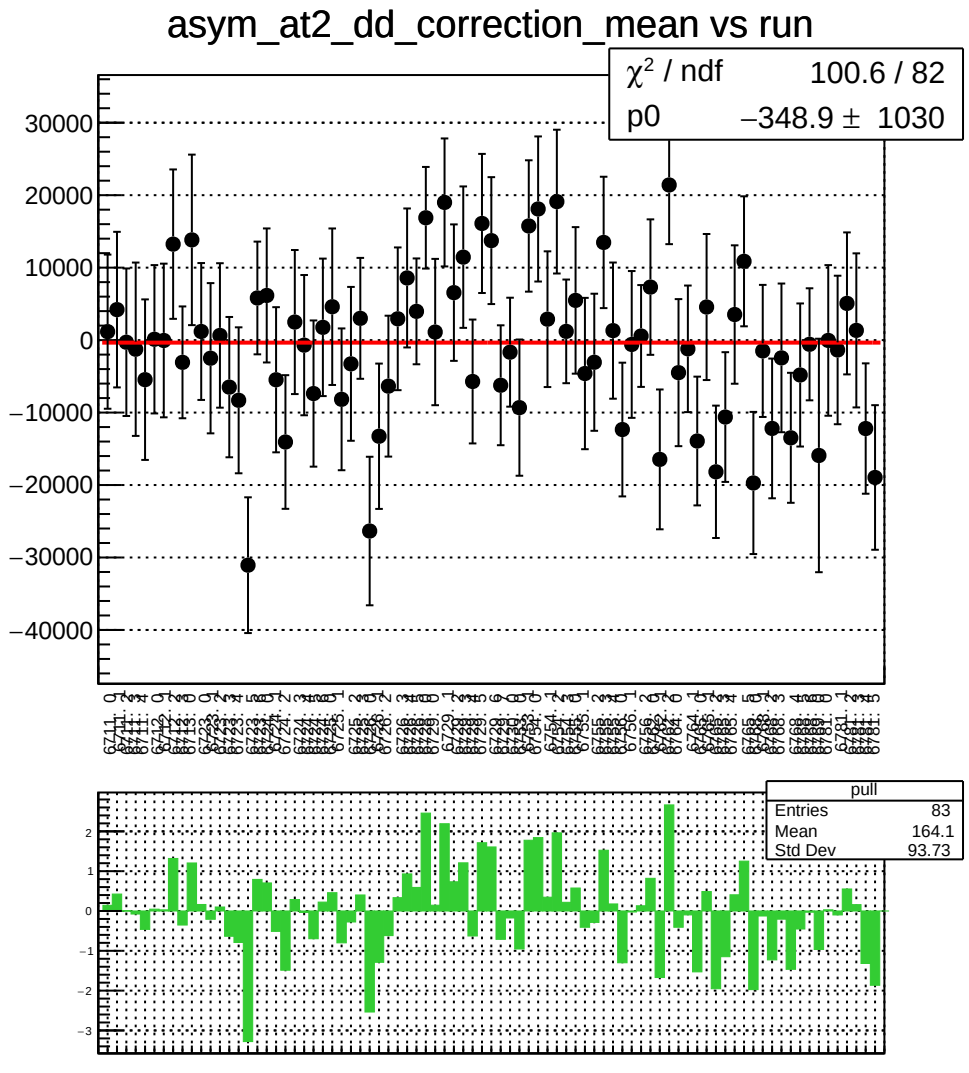

pull1D
Entries 83
Mean 0.01064
Std Dev 1.016

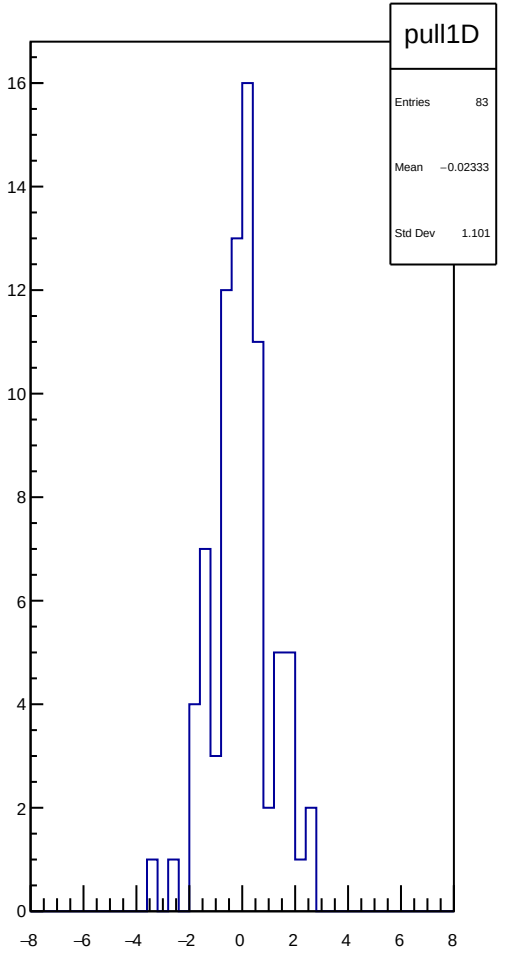

asym_at2_avg_rms vs run
χ² / ndf 1.104e+04 / 82
p0 8426 ± 6.615
10500
10000
9500
9000
8500
8000
7500
7000

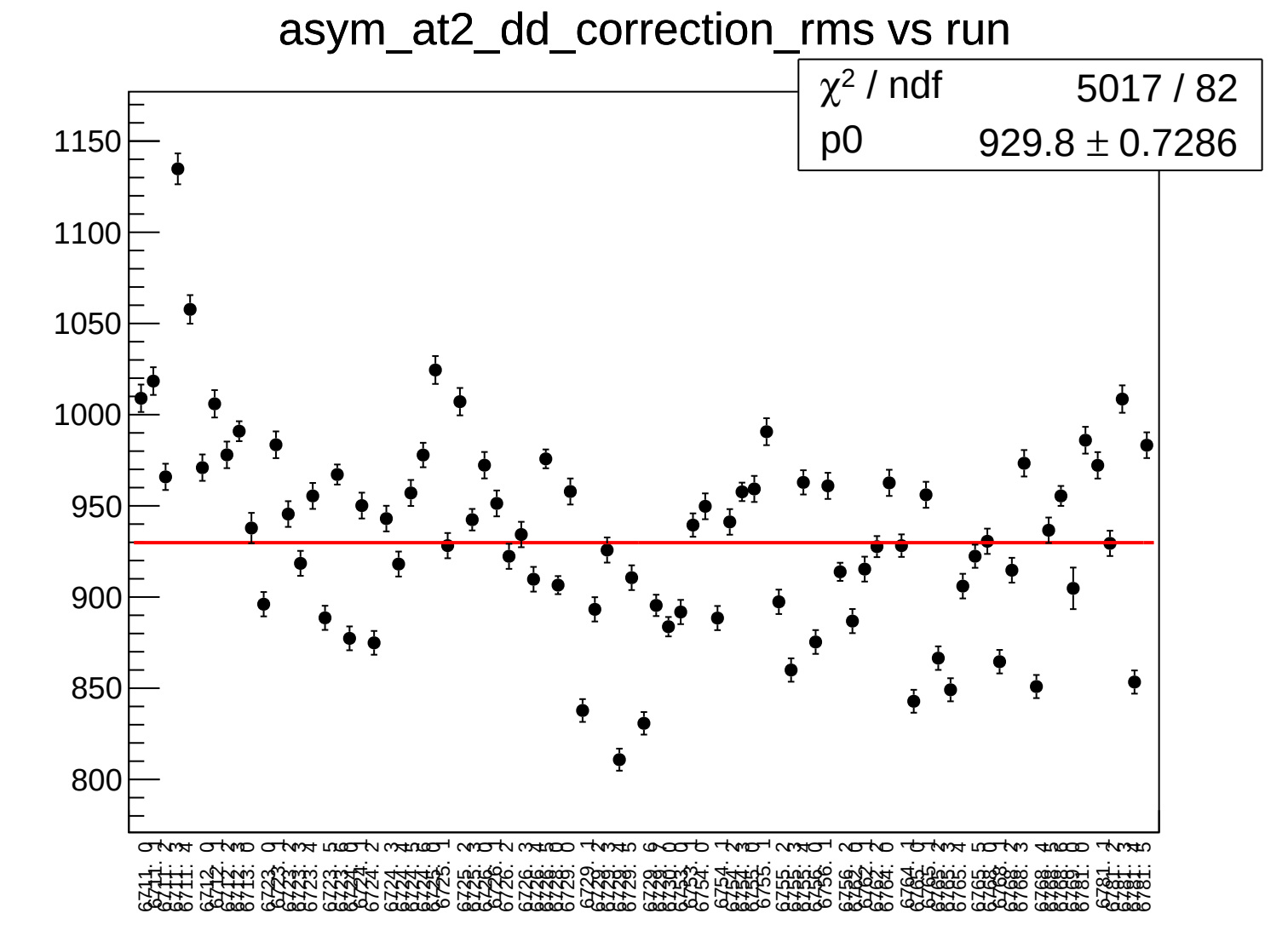

reg_asym_at2_dd_mean vs run
×10^3
χ² / ndf 90.73 / 82
p0 −1572 ± 2033
pull
Entries 83
Mean −71.56
Std Dev 130.5

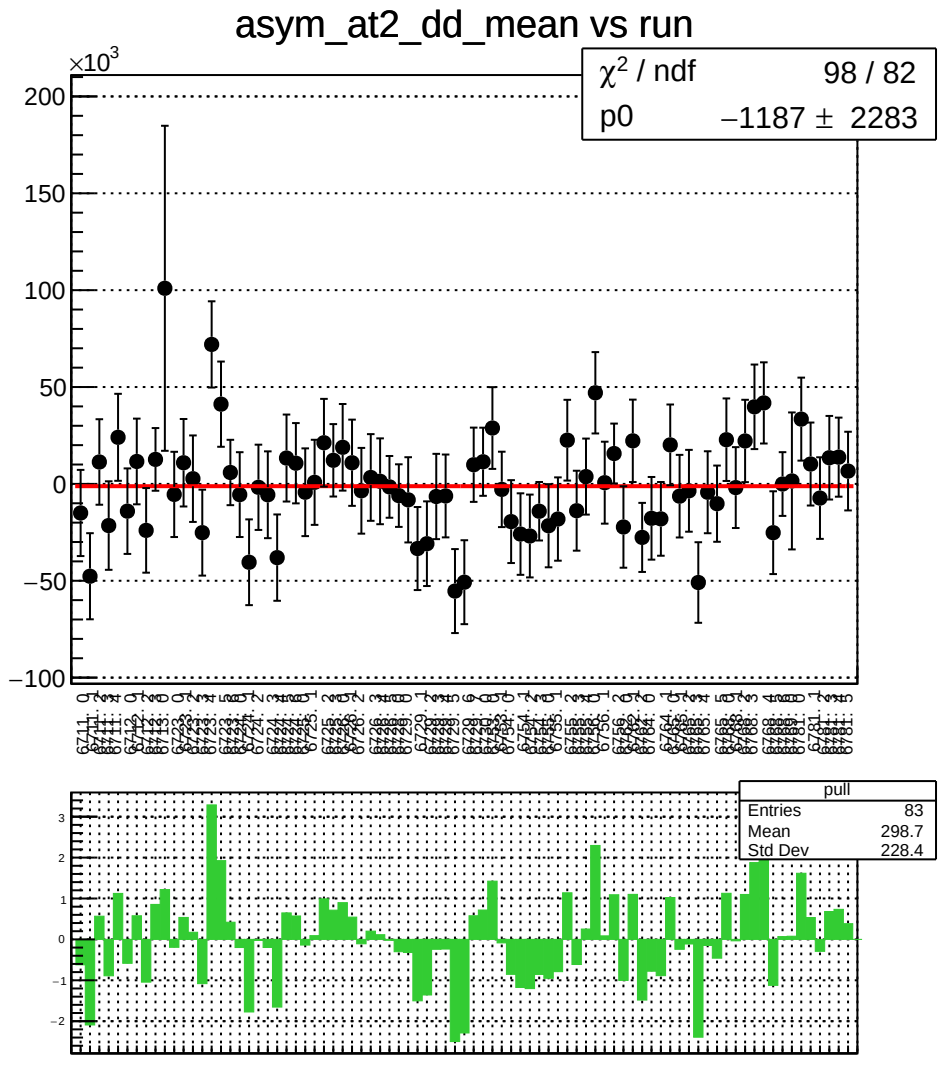

pull1D
Entries 83
Mean −0.006865
Std Dev 1.046

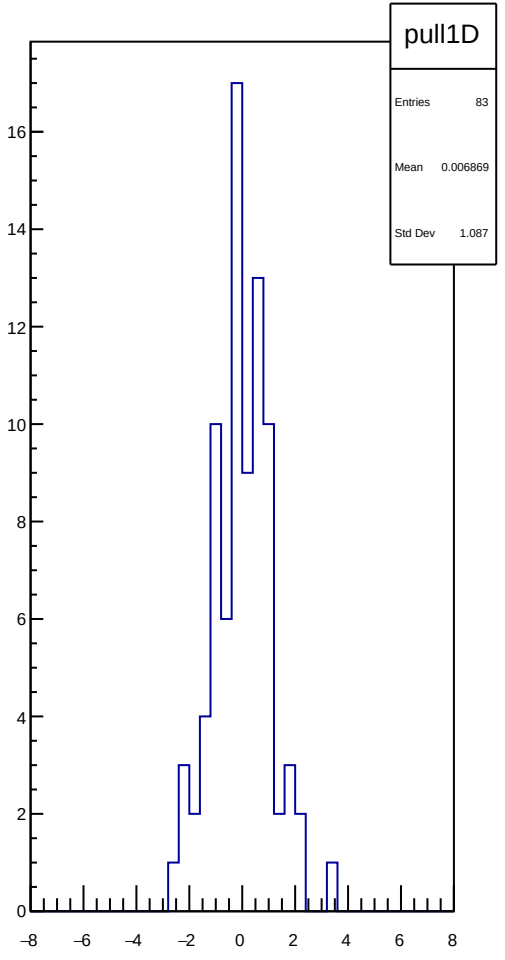

reg_asym_at2_dd_rms vs run
χ² / ndf 7794 / 82
p0 1833 ± 1.437
7000
6000
5000
4000
3000
2000

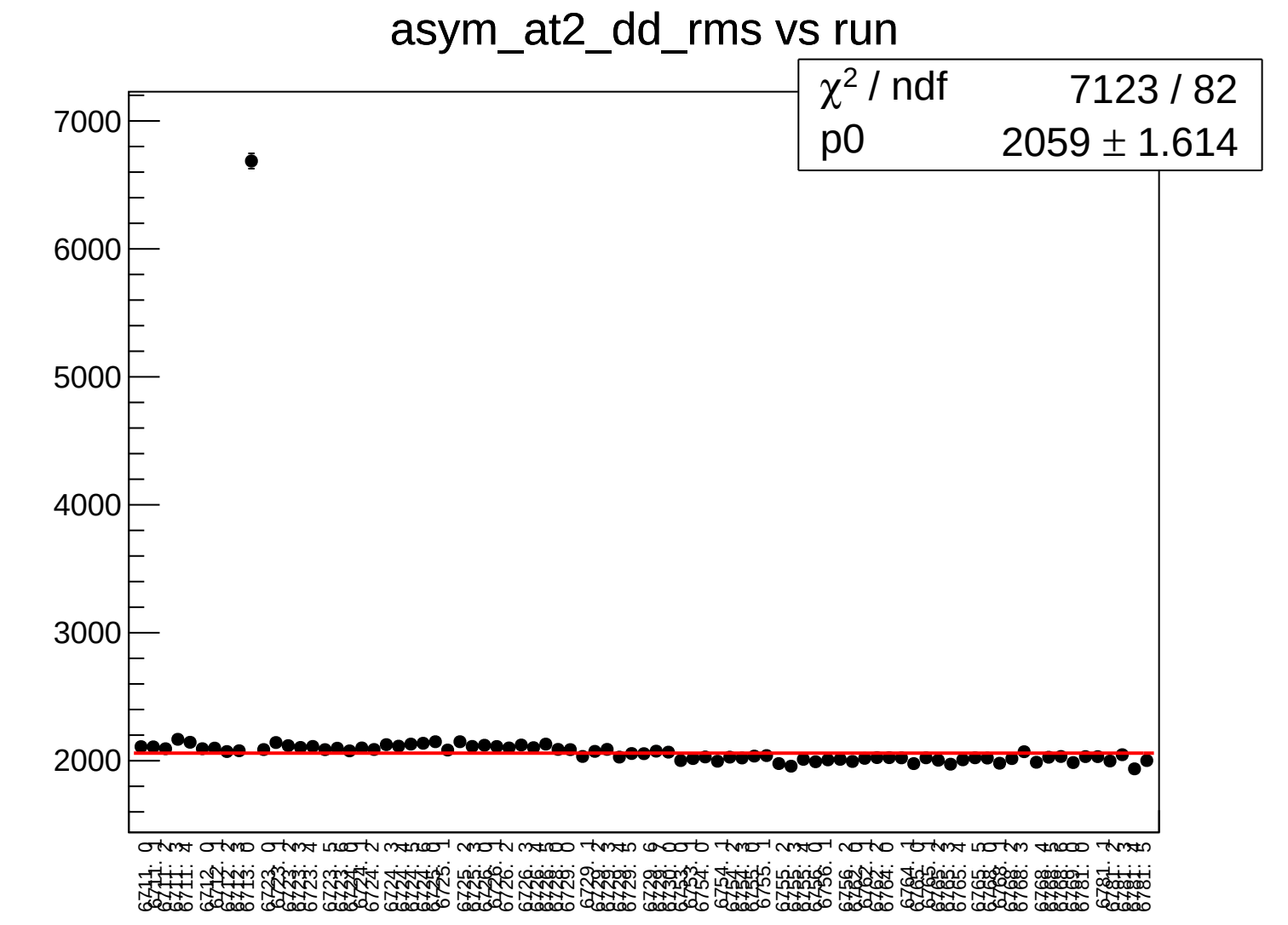

asym_at2_dd_correction_mean vs run
χ² / ndf 100.6 / 82
p0 −348.9 ± 1030
pull
Entries 83
Mean 164.1
Std Dev 93.73

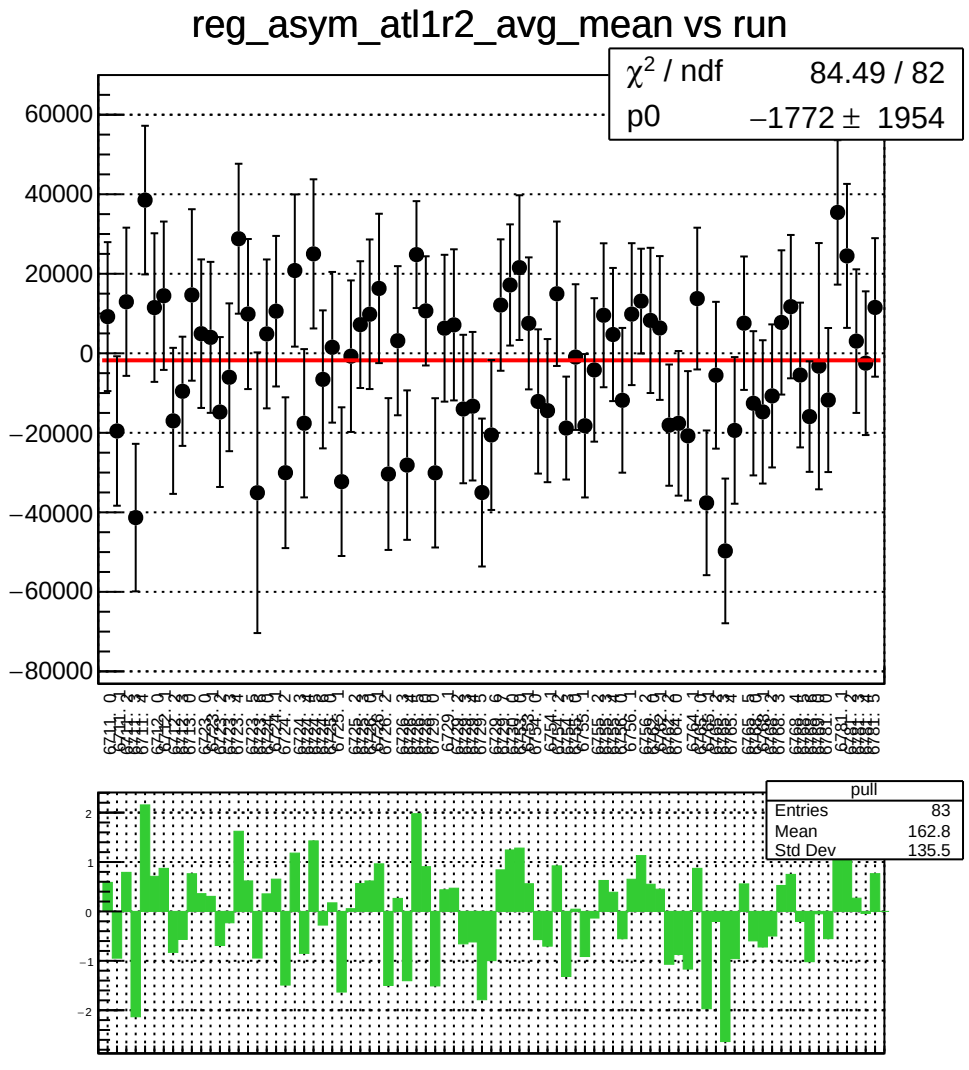

pull1D
Entries 83
Mean −0.02333
Std Dev 1.101

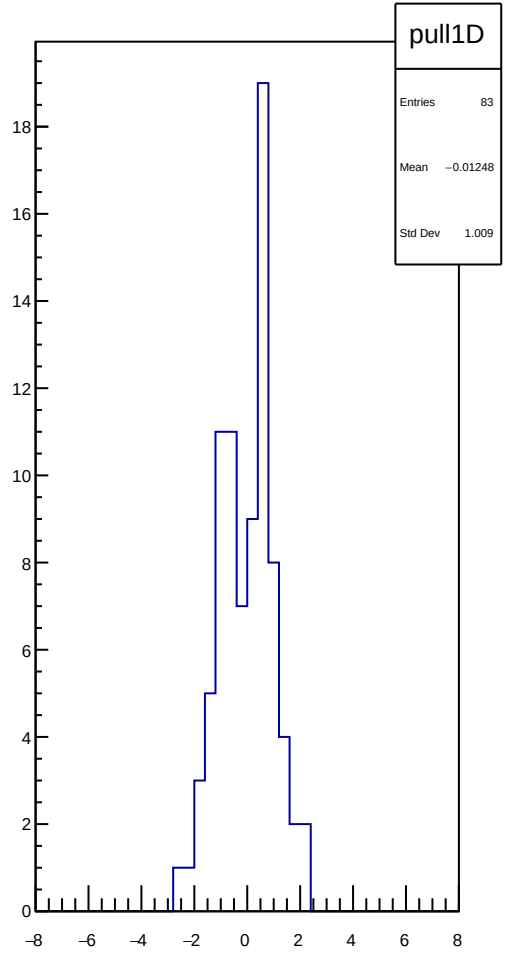

asym_at2_dd_correction_rms vs run
χ² / ndf 5017 / 82
p0 929.8 ± 0.7286
1150
1100
1050
1000
950
900
850
800

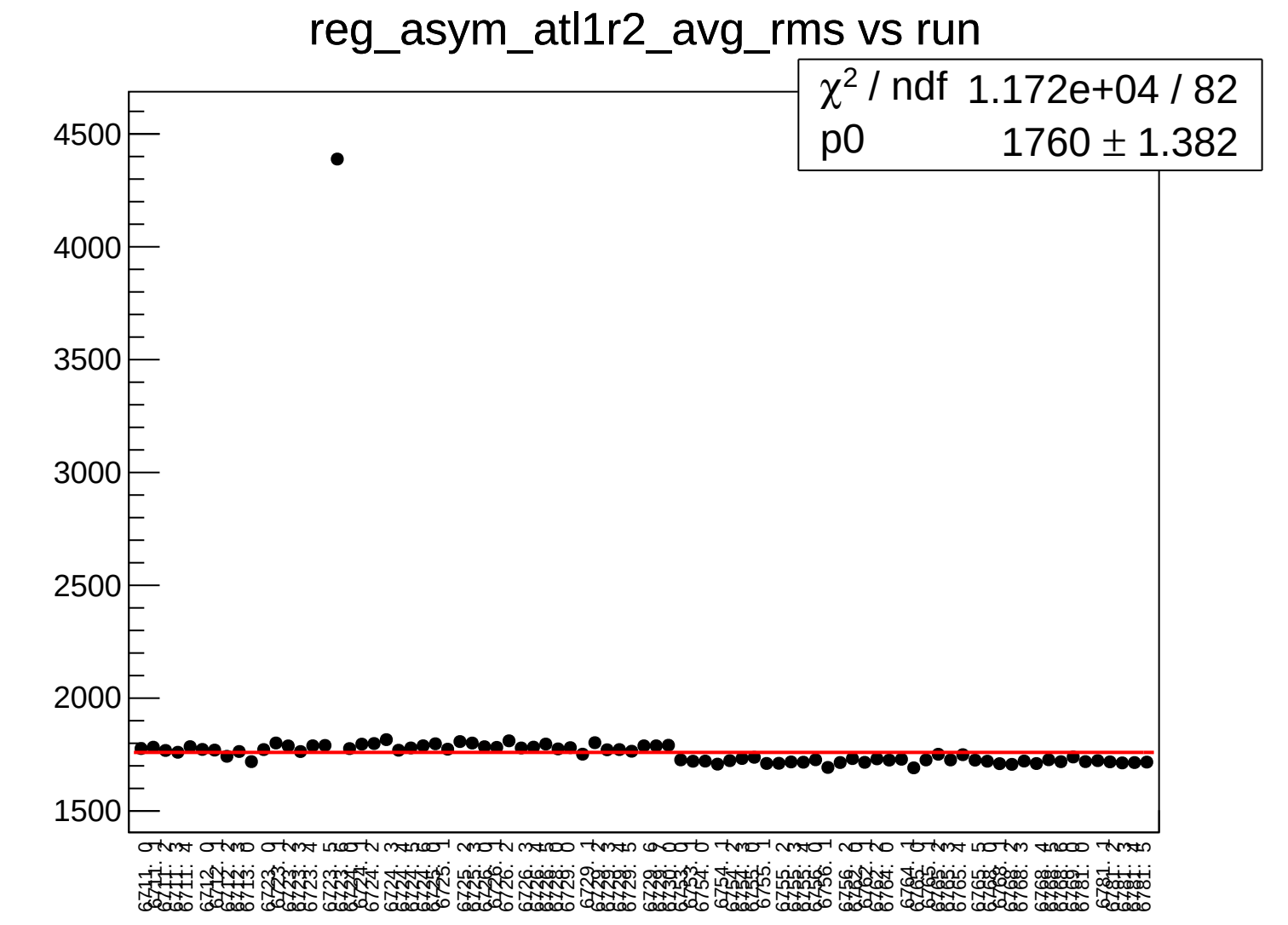

asym_at2_dd_mean vs run
×10^3
χ² / ndf 98 / 82
p0 −1187 ± 2283
200
150
100
50
0
−50
−100
pull
Entries 83
Mean 298.7
Std Dev 228.4
3
2
1
0
−1
−2

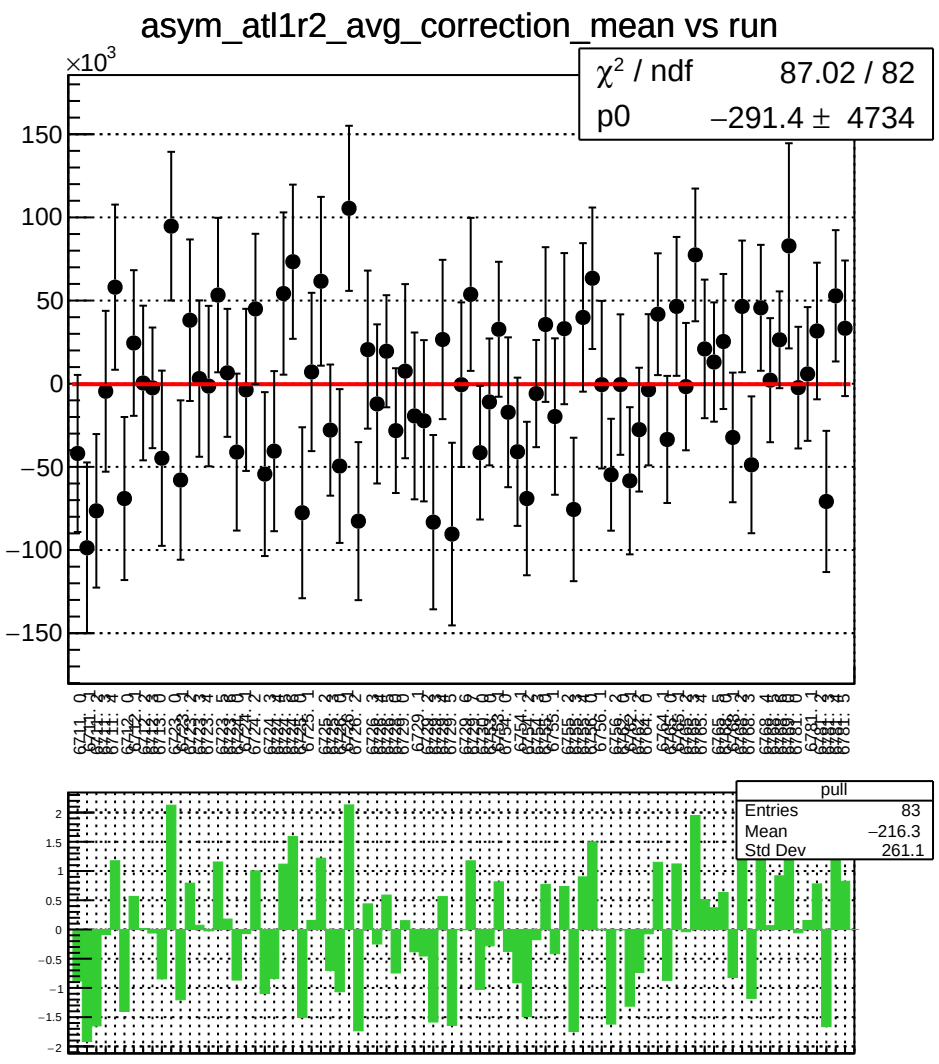

pull1D
Entries 83
Mean 0.006869
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

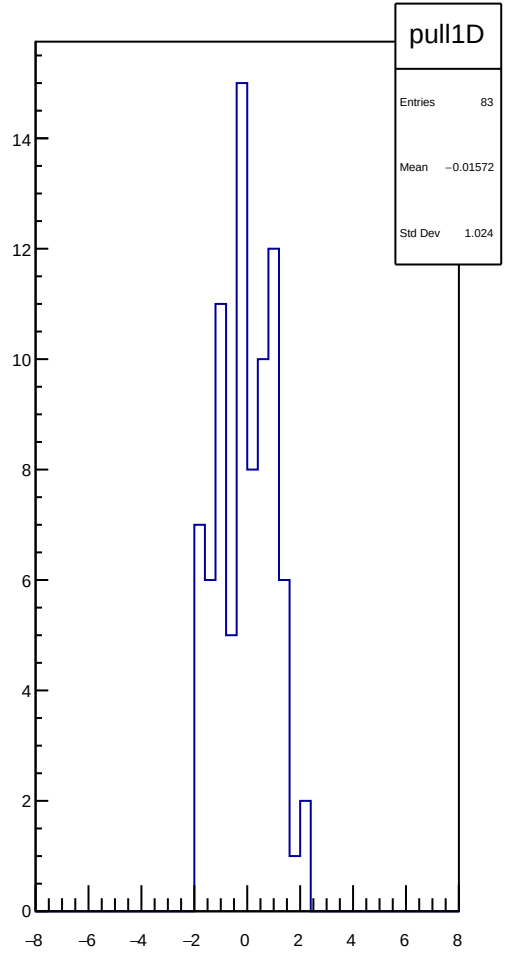

asym_at2_dd_rms vs run
χ^2 / ndf 7123 / 82
p0 2059 ± 1.614
7000
6000
5000
4000
3000
2000

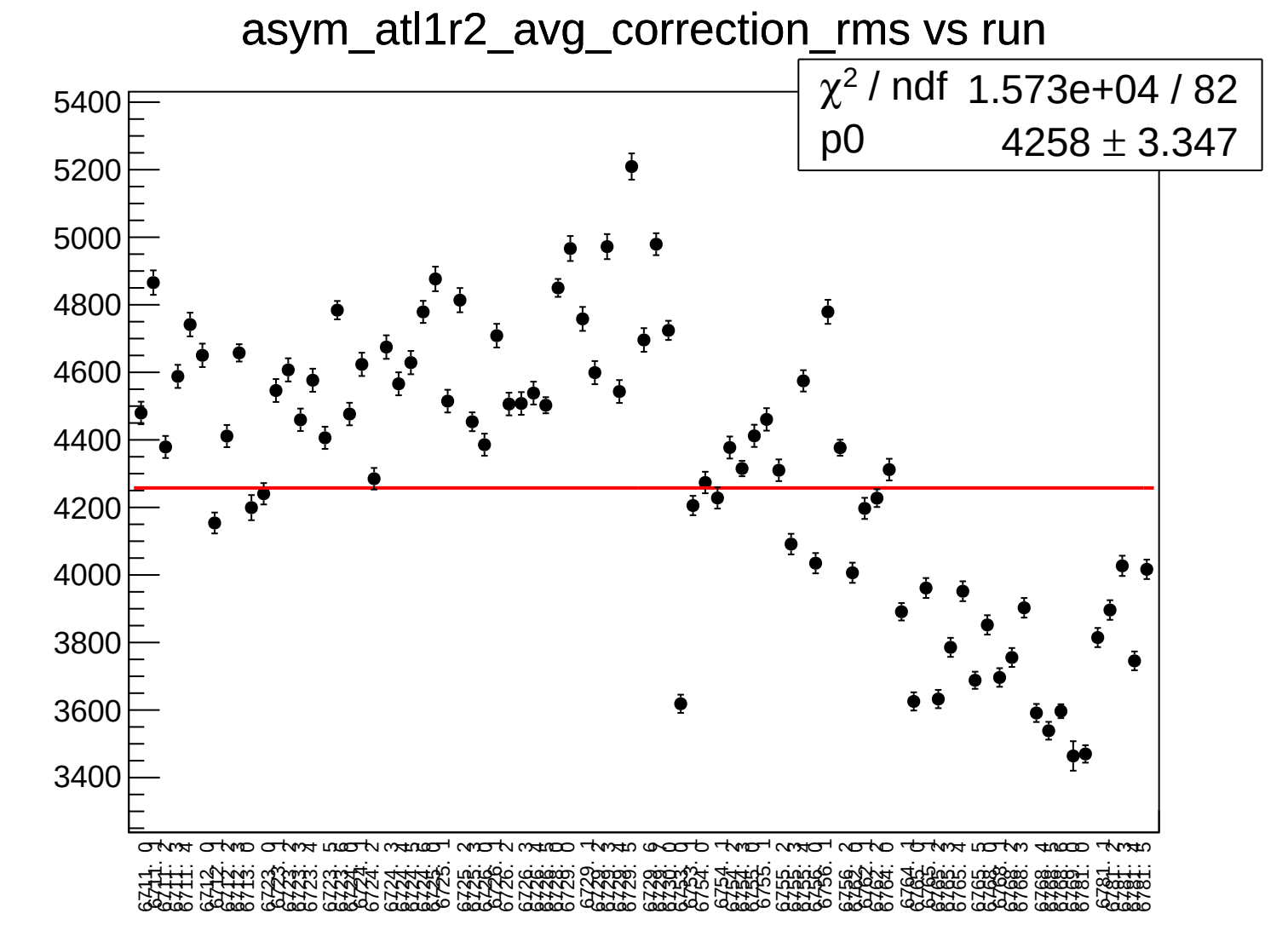

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 84.49 / 82
p0 −1772 ± 1954
pull
Entries 83
Mean 162.8
Std Dev 135.5

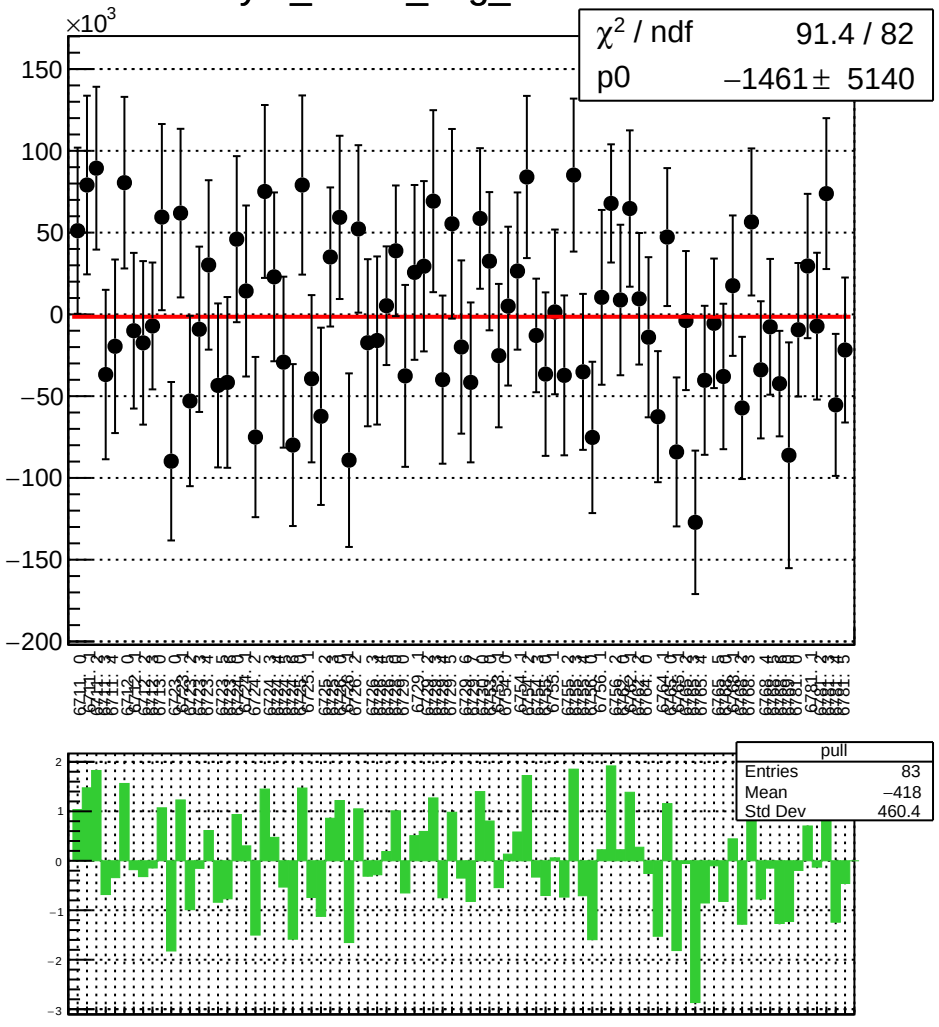

pull1D
Entries 83
Mean −0.01248
Std Dev 1.009

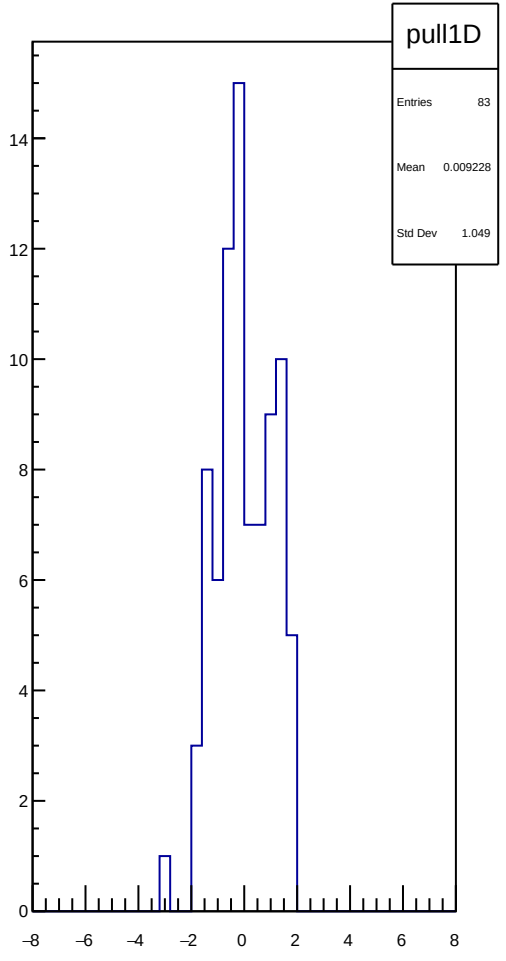

reg_asym_atl1r2_avg_rms vs run
χ^2 / ndf 1.172e+04 / 82
p0 1760 ± 1.382
4500
4000
3500
3000
2500
2000
1500

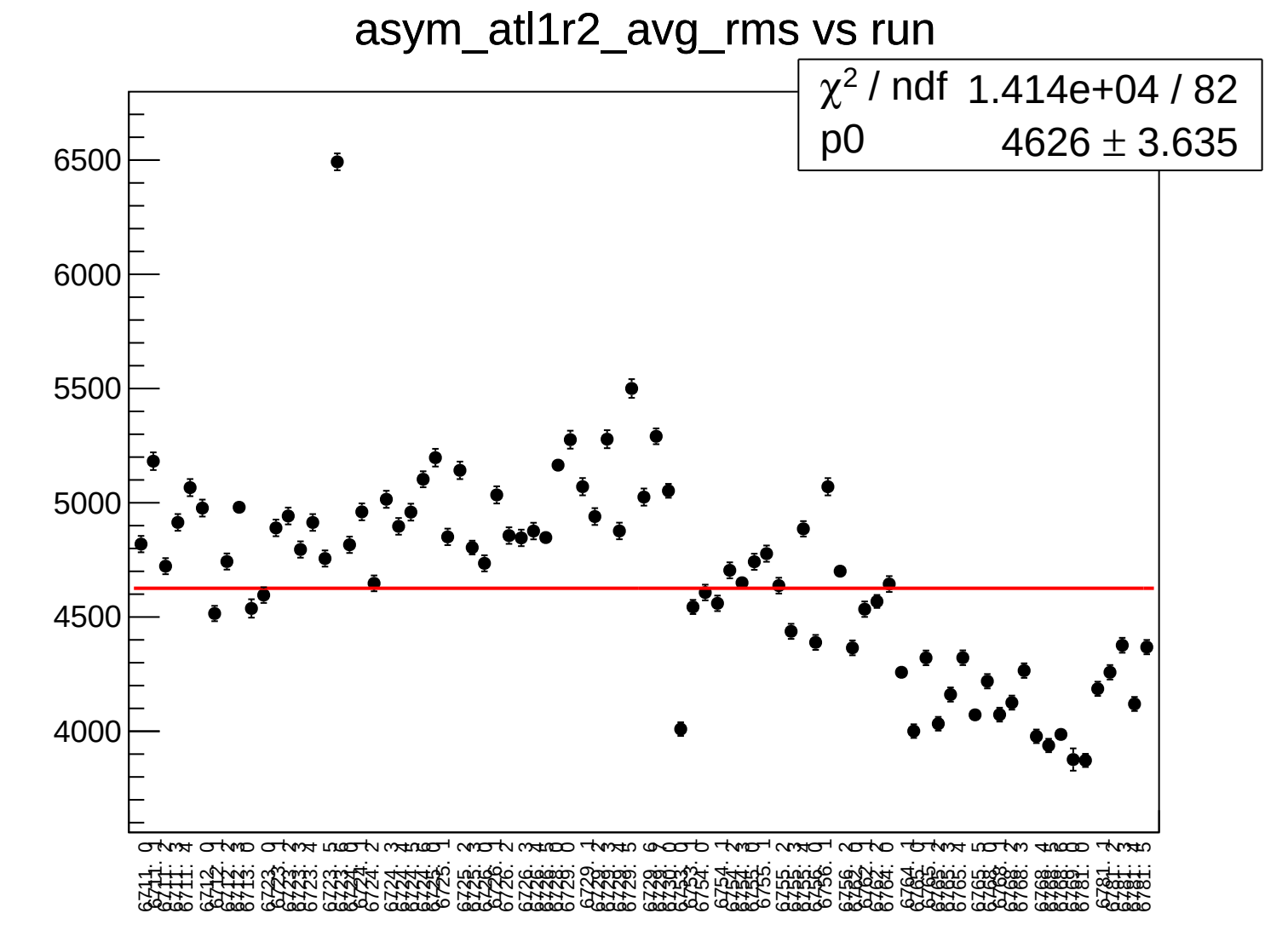

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 87.02 / 82
p0 −291.4 ± 4734
150
100
50
0
−50
−100
−150
pull
Entries 83
Mean −216.3
Std Dev 261.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

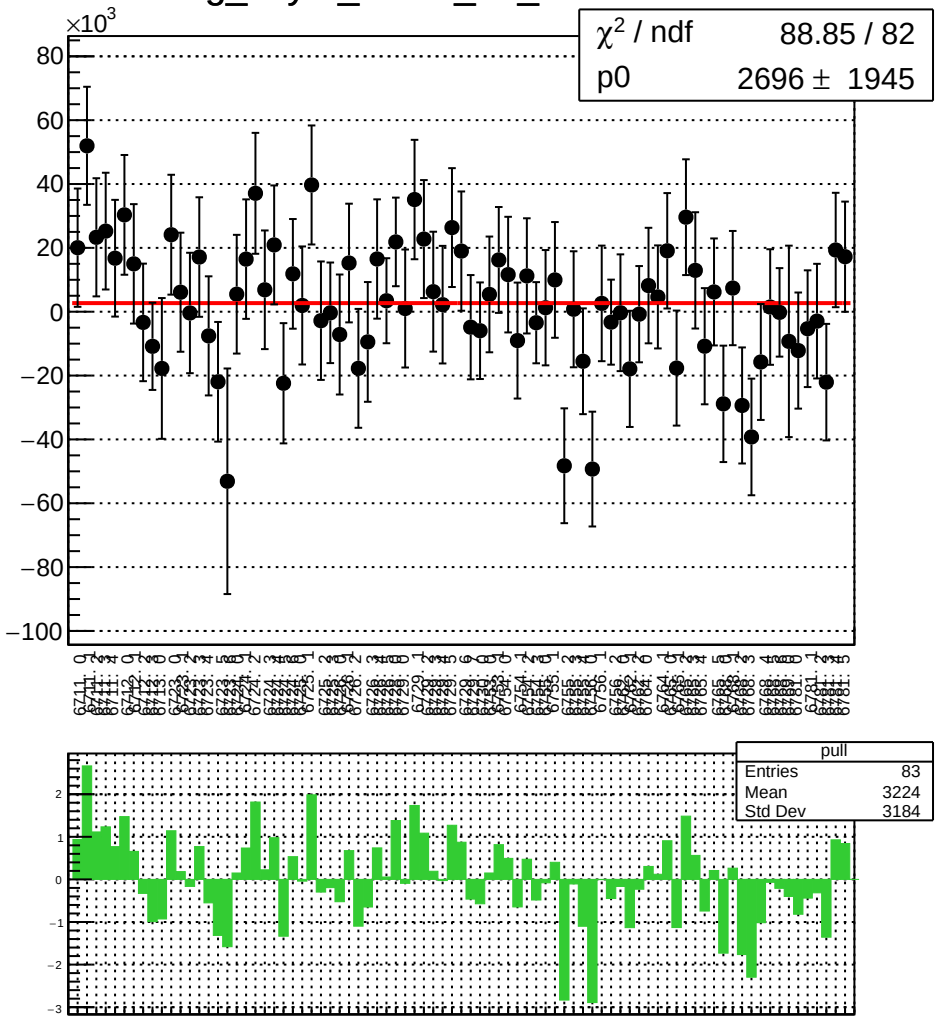

pull1D
Entries 83
Mean −0.01572
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

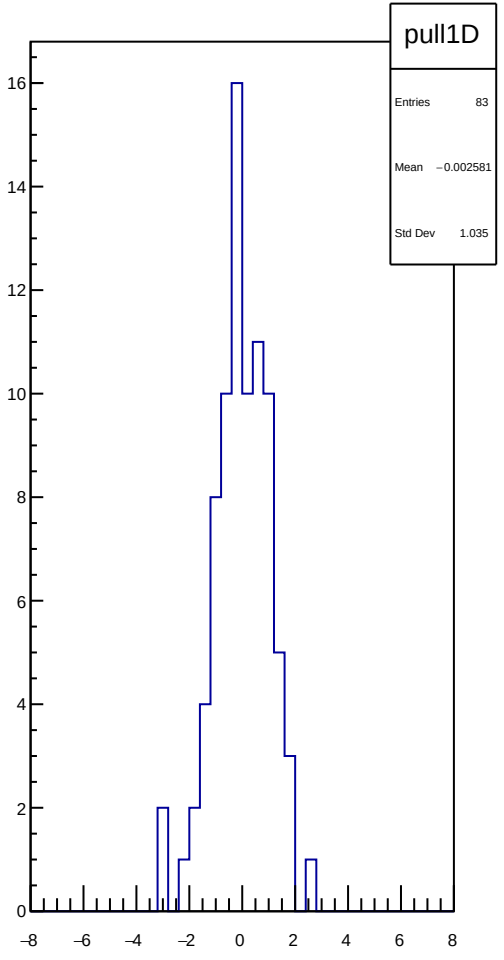

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 1.573e+04 / 82
p0 4258 ± 3.347
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

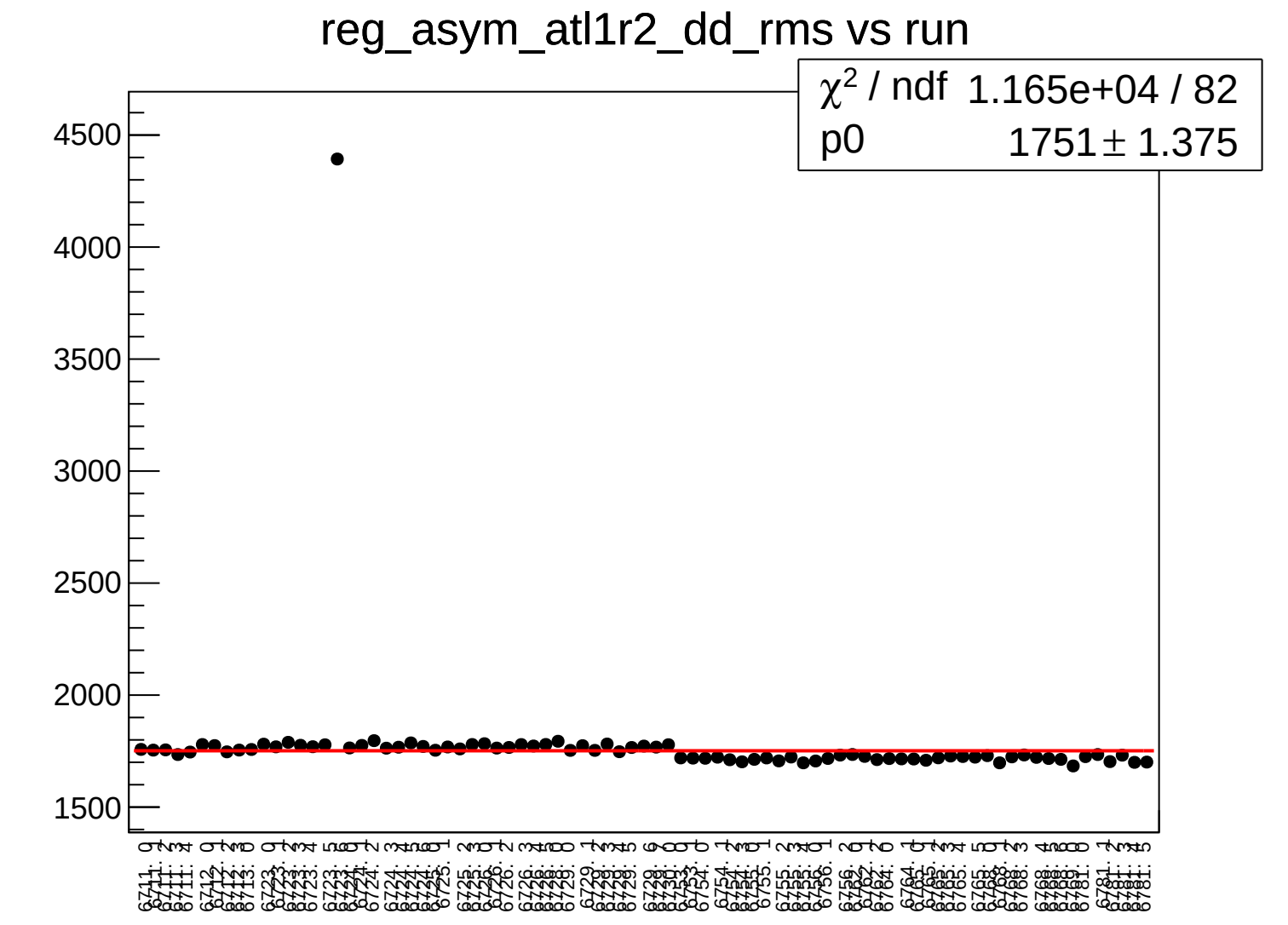

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 91.4 / 82
p0 −1461 ± 5140
pull
Entries 83
Mean −418
Std Dev 460.4

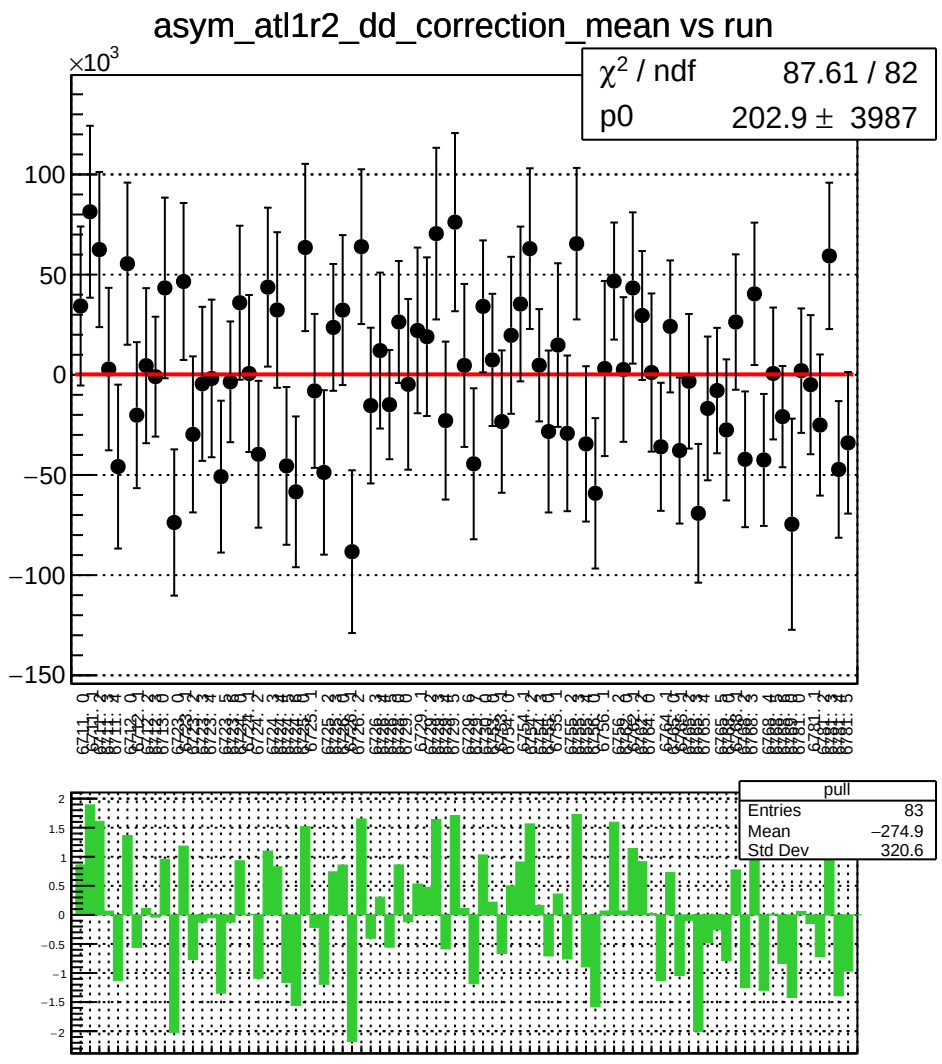

pull1D
Entries 83
Mean 0.009228
Std Dev 1.049

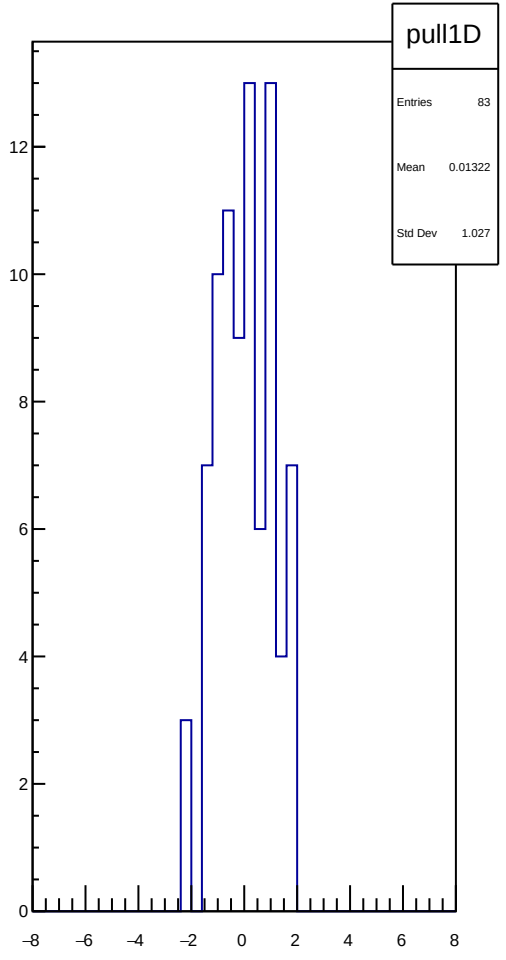

asym_atl1r2_avg_rms vs run
χ² / ndf 1.414e+04 / 82
p0 4626 ± 3.635
6500
6000
5500
5000
4500
4000

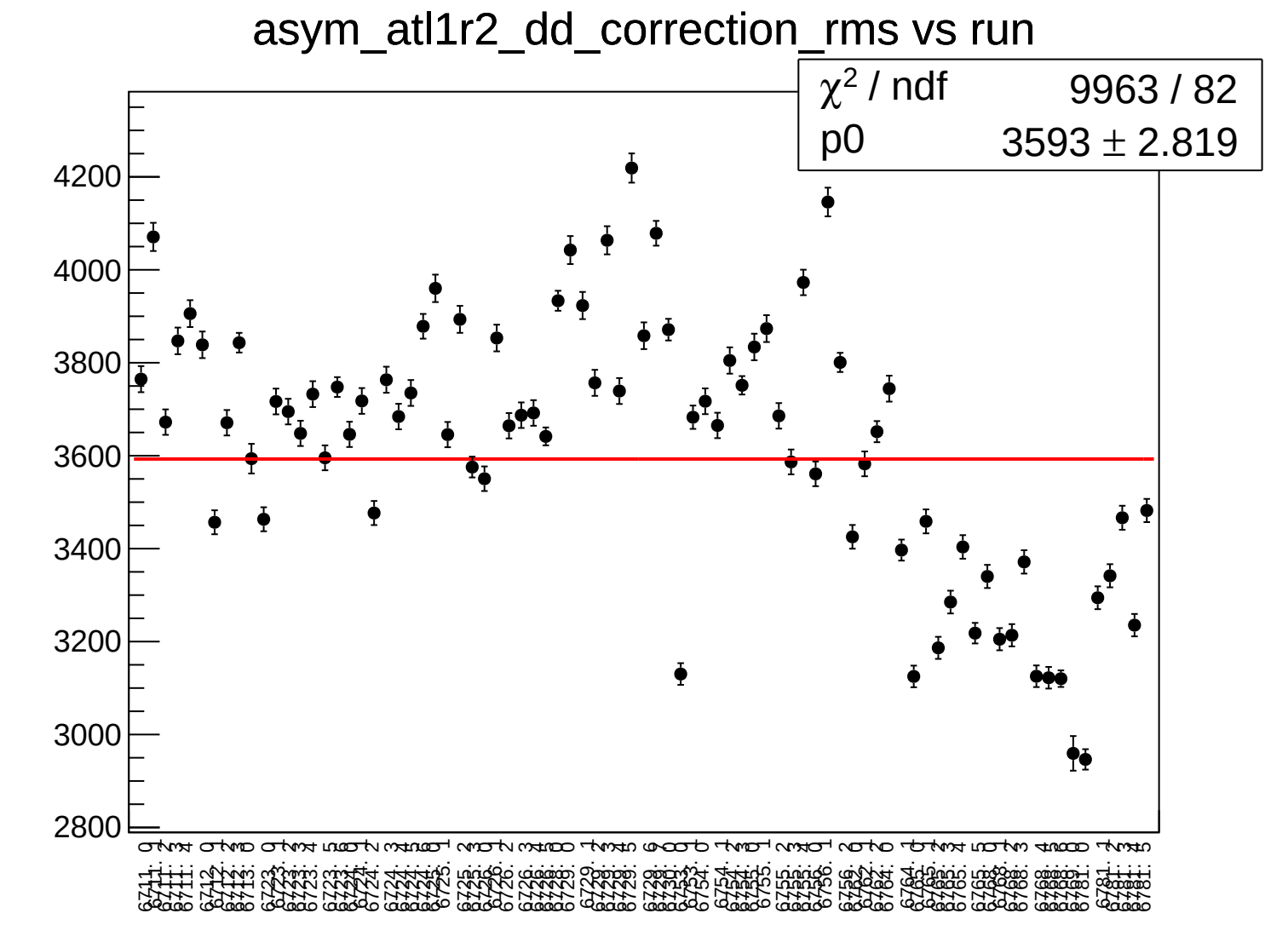

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 88.85 / 82
p0 2696 ± 1945
pull
Entries 83
Mean 3224
Std Dev 3184

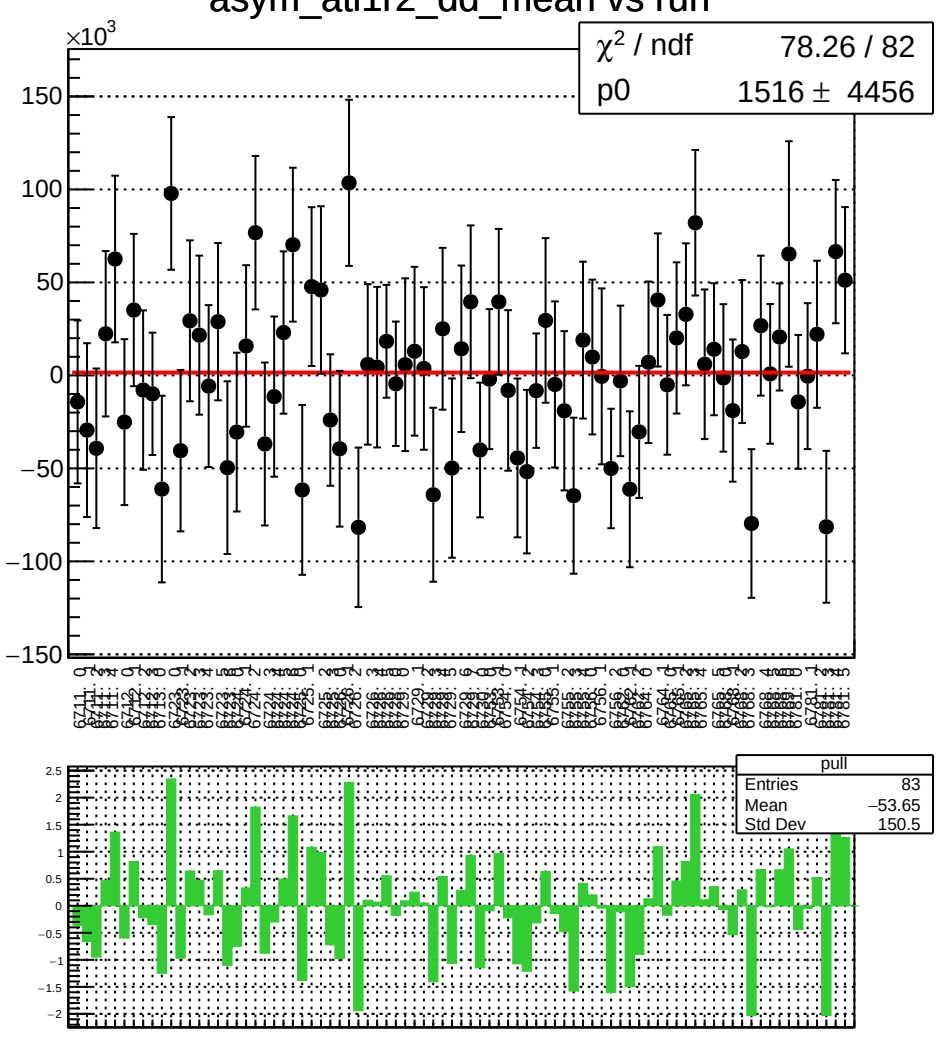

pull1D
Entries 83
Mean −0.002581
Std Dev 1.035

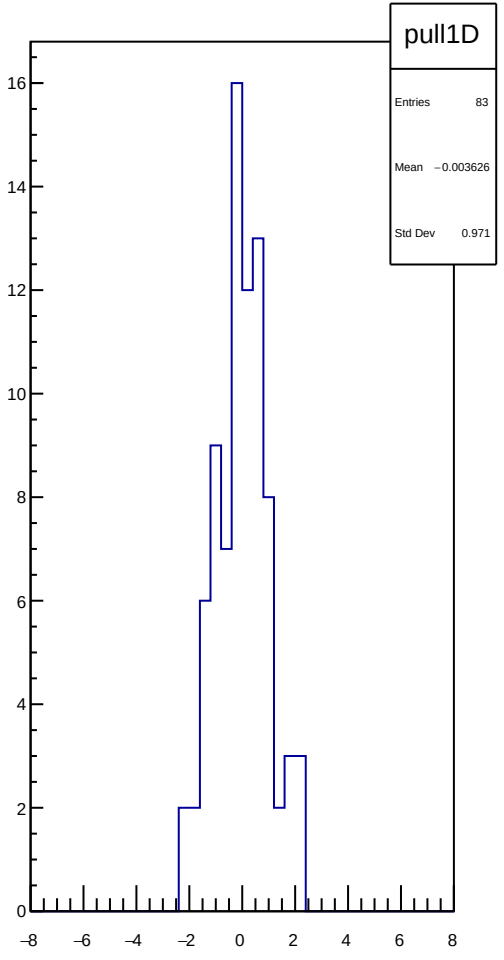

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 1.165e+04 / 82
p0 1751 ± 1.375
4500
4000
3500
3000
2500
2000
1500

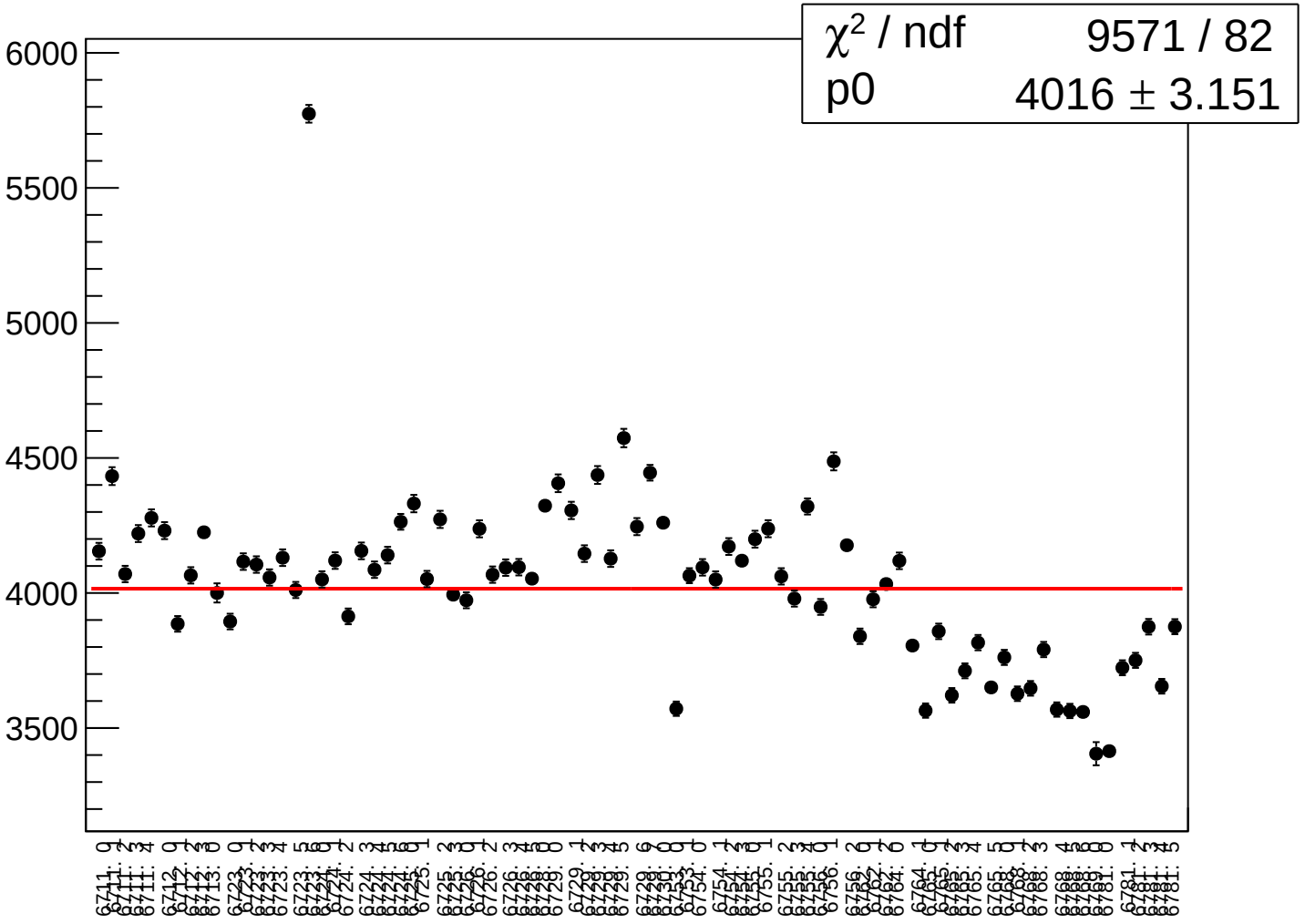

asym_atl1r2_dd_correction_mean vs run
×10^3
χ^2 / ndf 87.61 / 82
p0 202.9 ± 3987
100
50
0
−50
−100
−150
pull
Entries 83
Mean −274.9
Std Dev 320.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

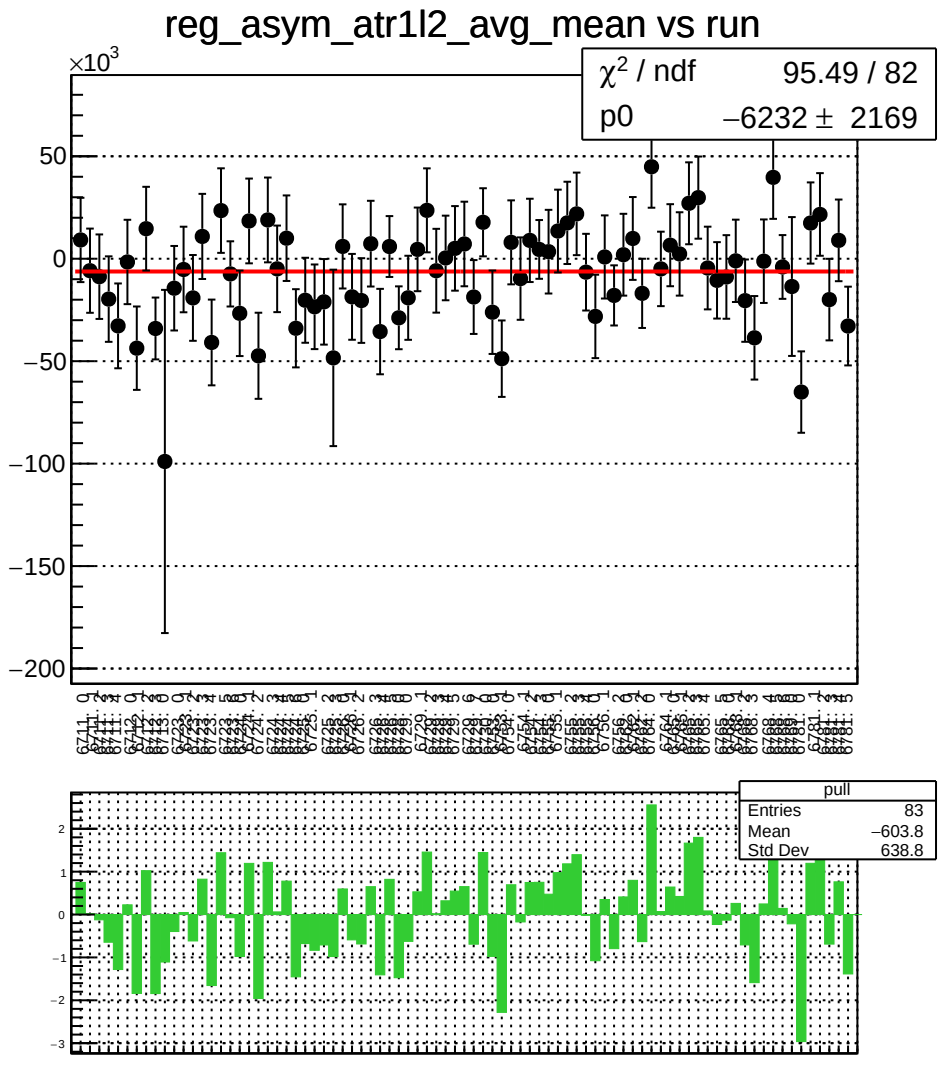

pull1D
Entries 83
Mean 0.01322
Std Dev 1.027
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

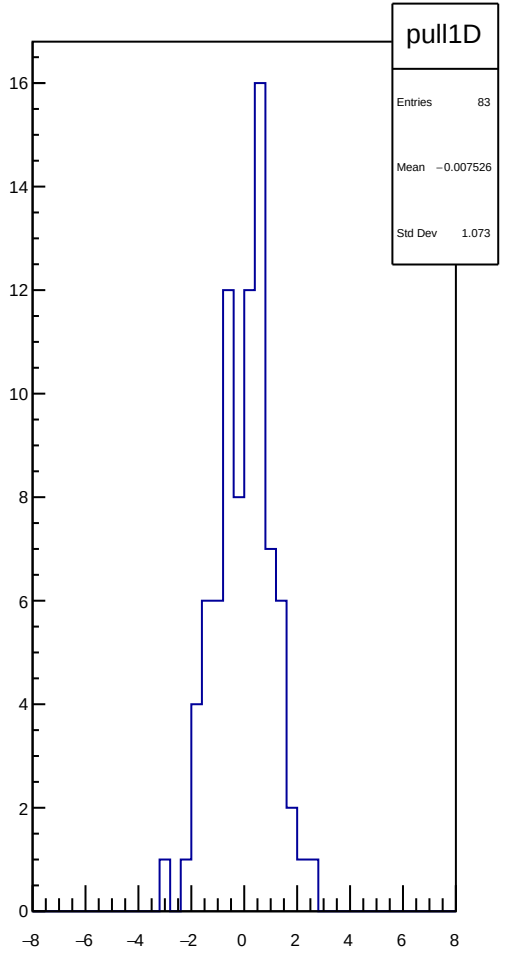

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 9963 / 82
p0 3593 ± 2.819
4200
4000
3800
3600
3400
3200
3000
2800

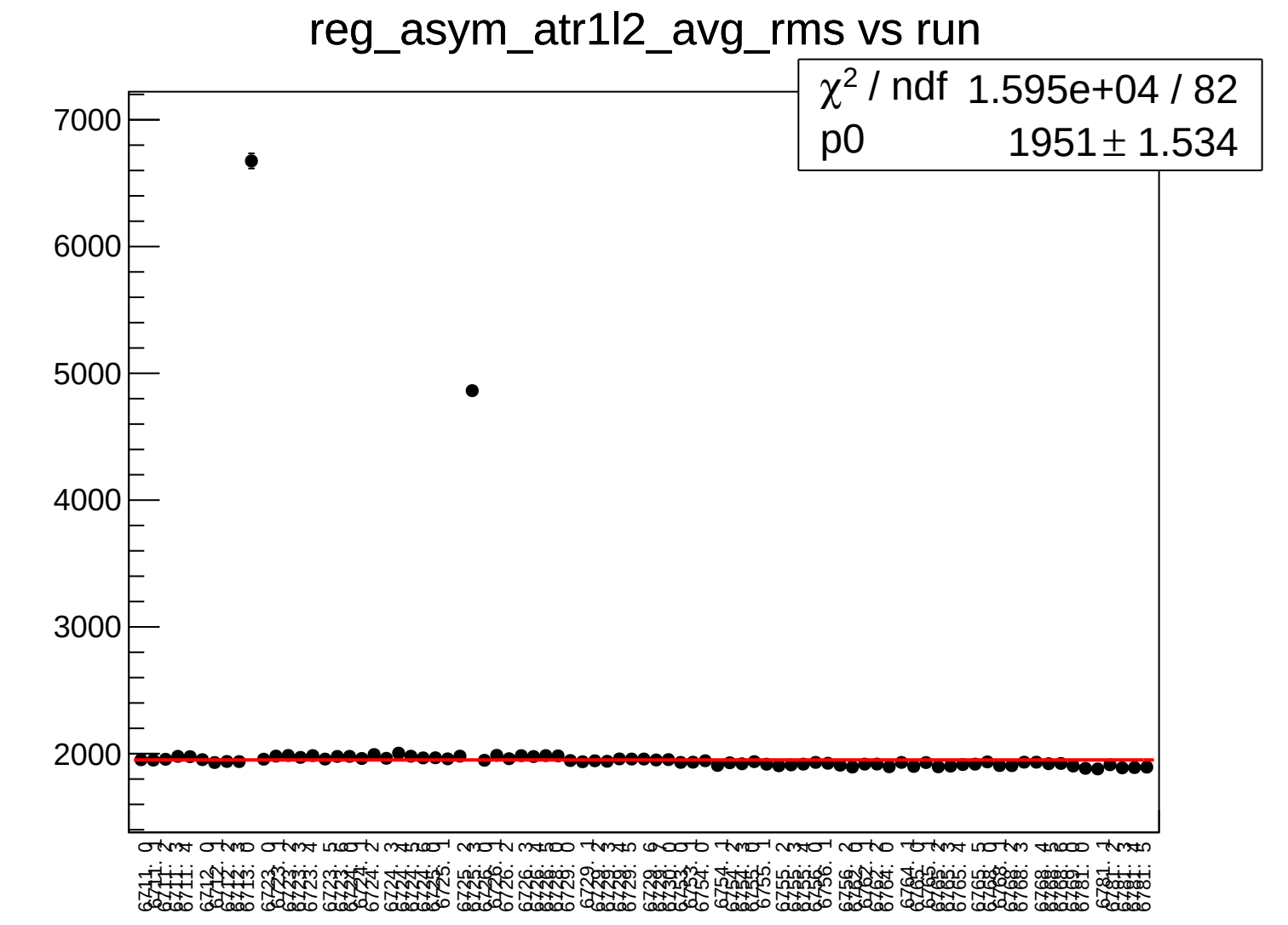

asym_atl1r2_dd_mean vs run
χ^2 / ndf 78.26 / 82
p0 1516 ± 4456
×10^3
pull
Entries 83
Mean −53.65
Std Dev 150.5

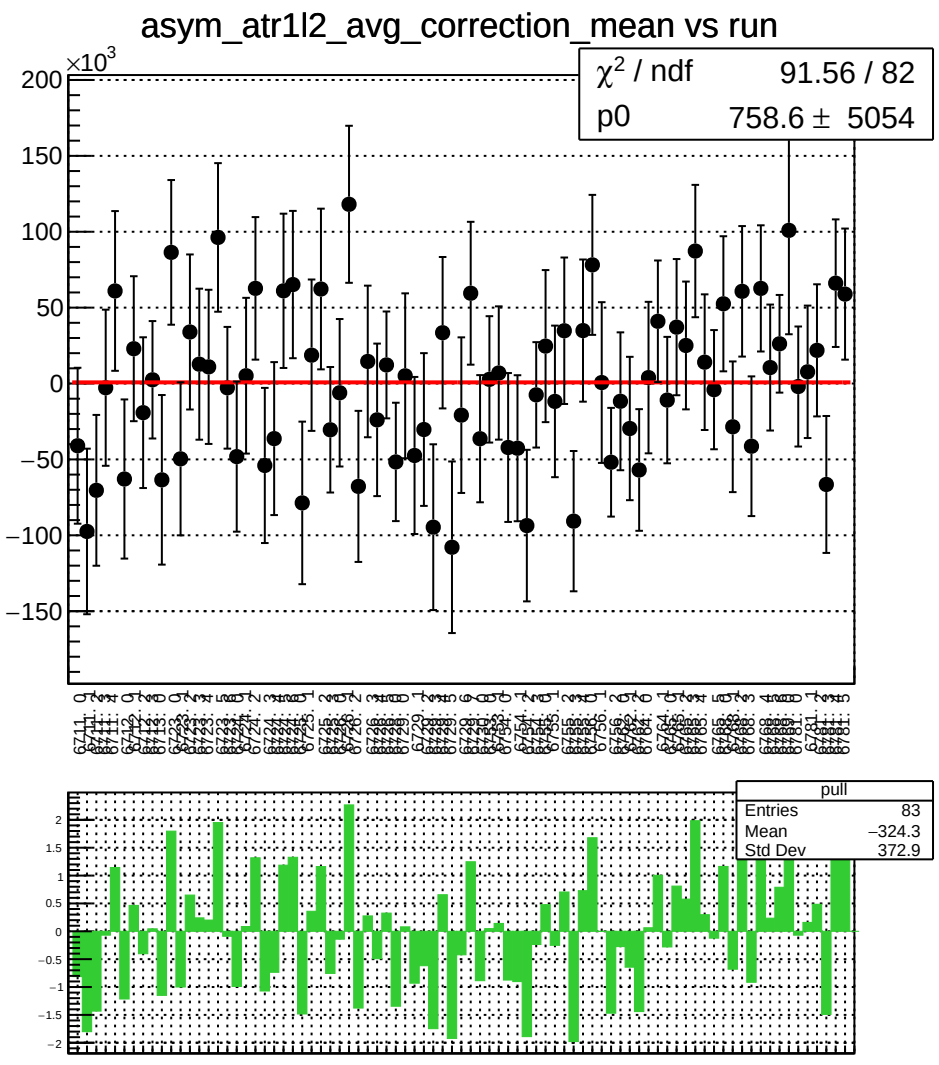

pull1D
Entries 83
Mean −0.003626
Std Dev 0.971

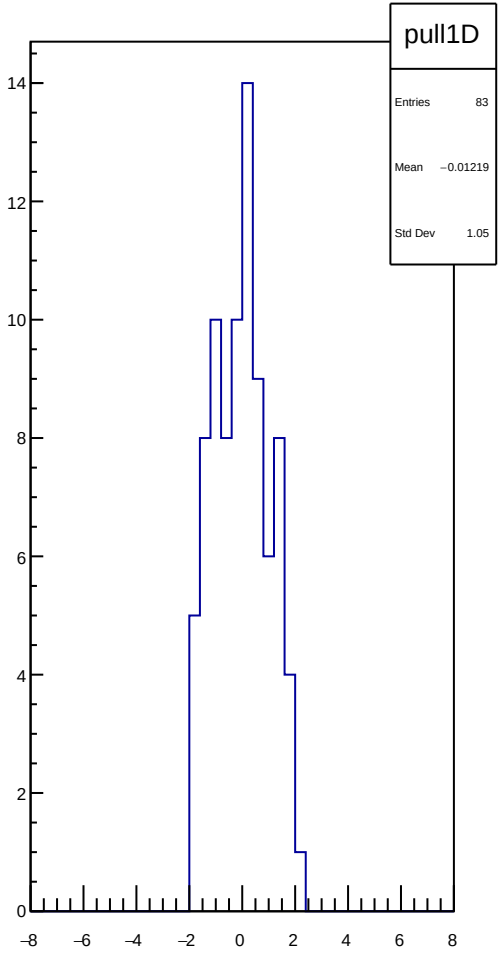

asym_atl1r2_dd_rms vs run
χ² / ndf 9571 / 82
p0 4016 ± 3.151
6000
5500
5000
4500
4000
3500

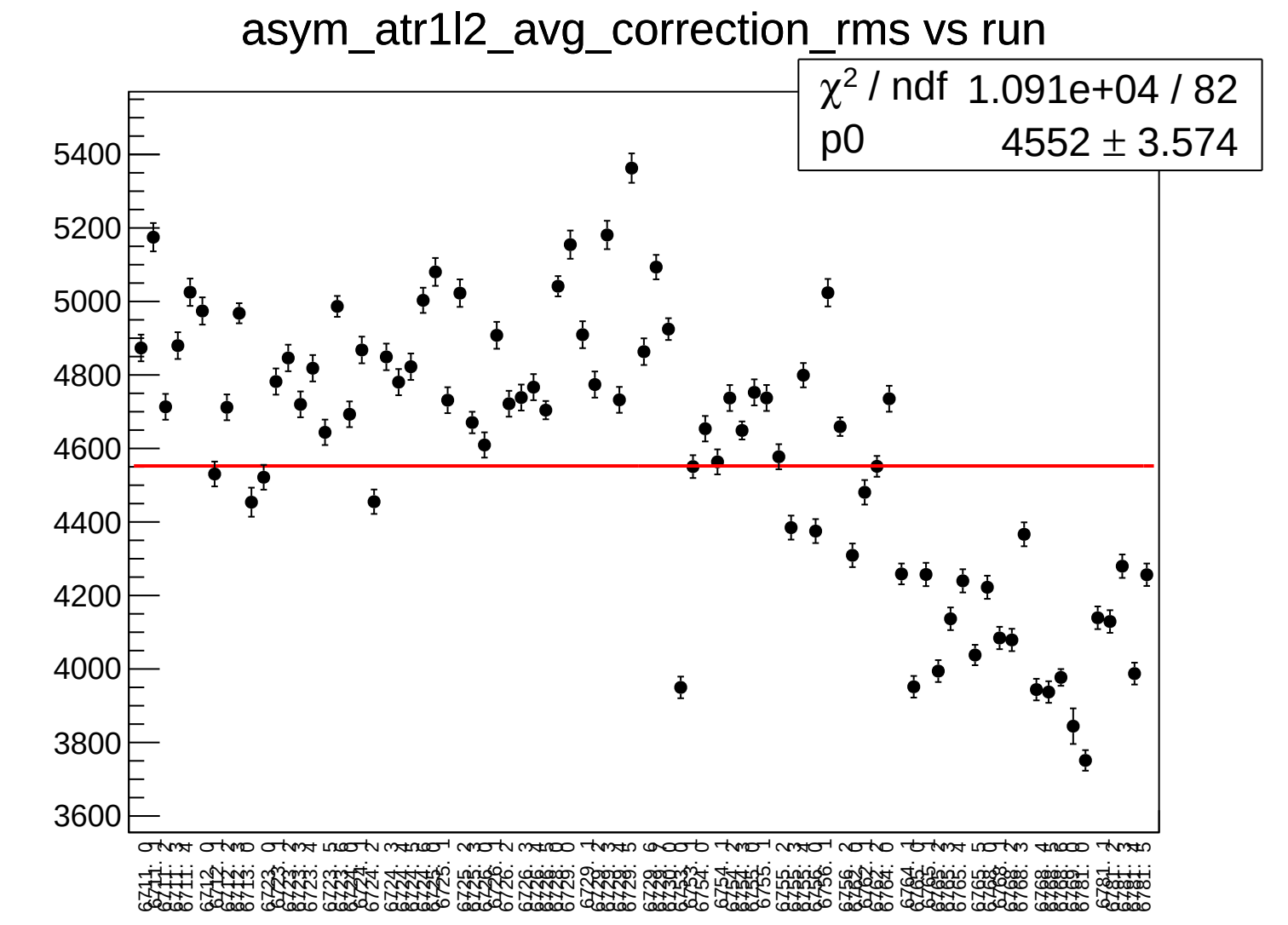

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 95.49 / 82
p0 −6232 ± 2169
50
0
−50
−100
−150
−200
pull
Entries 83
Mean −603.8
Std Dev 638.8
2
1
0
−1
−2
−3

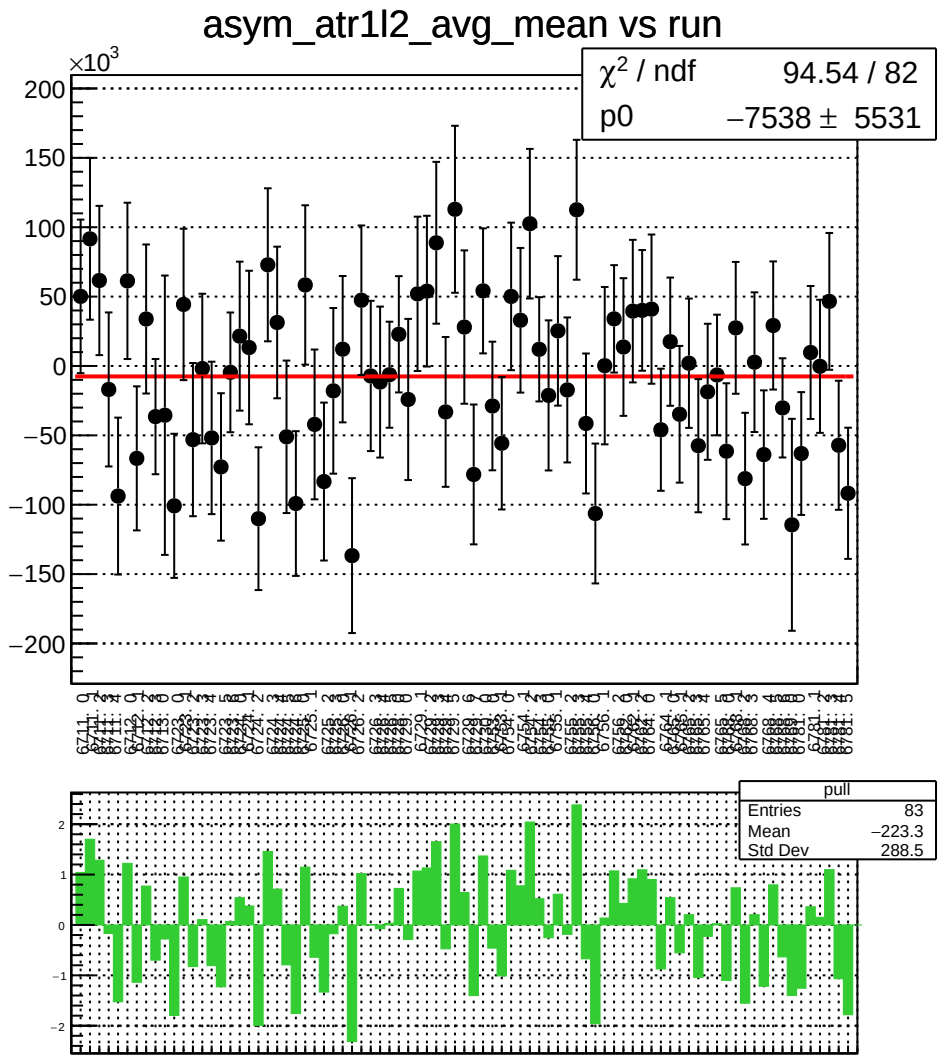

pull1D
Entries 83
Mean −0.007526
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

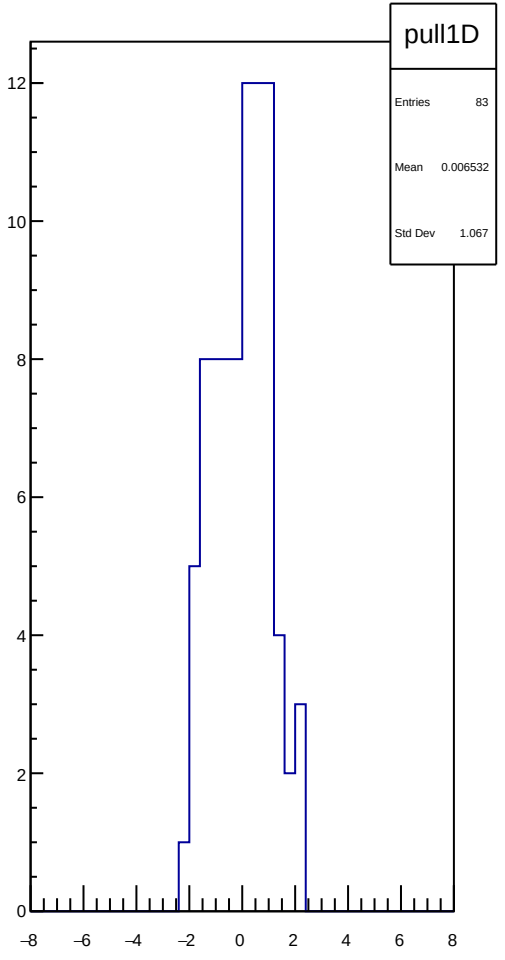

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 1.595e+04 / 82
p0 1951 ± 1.534
7000
6000
5000
4000
3000
2000

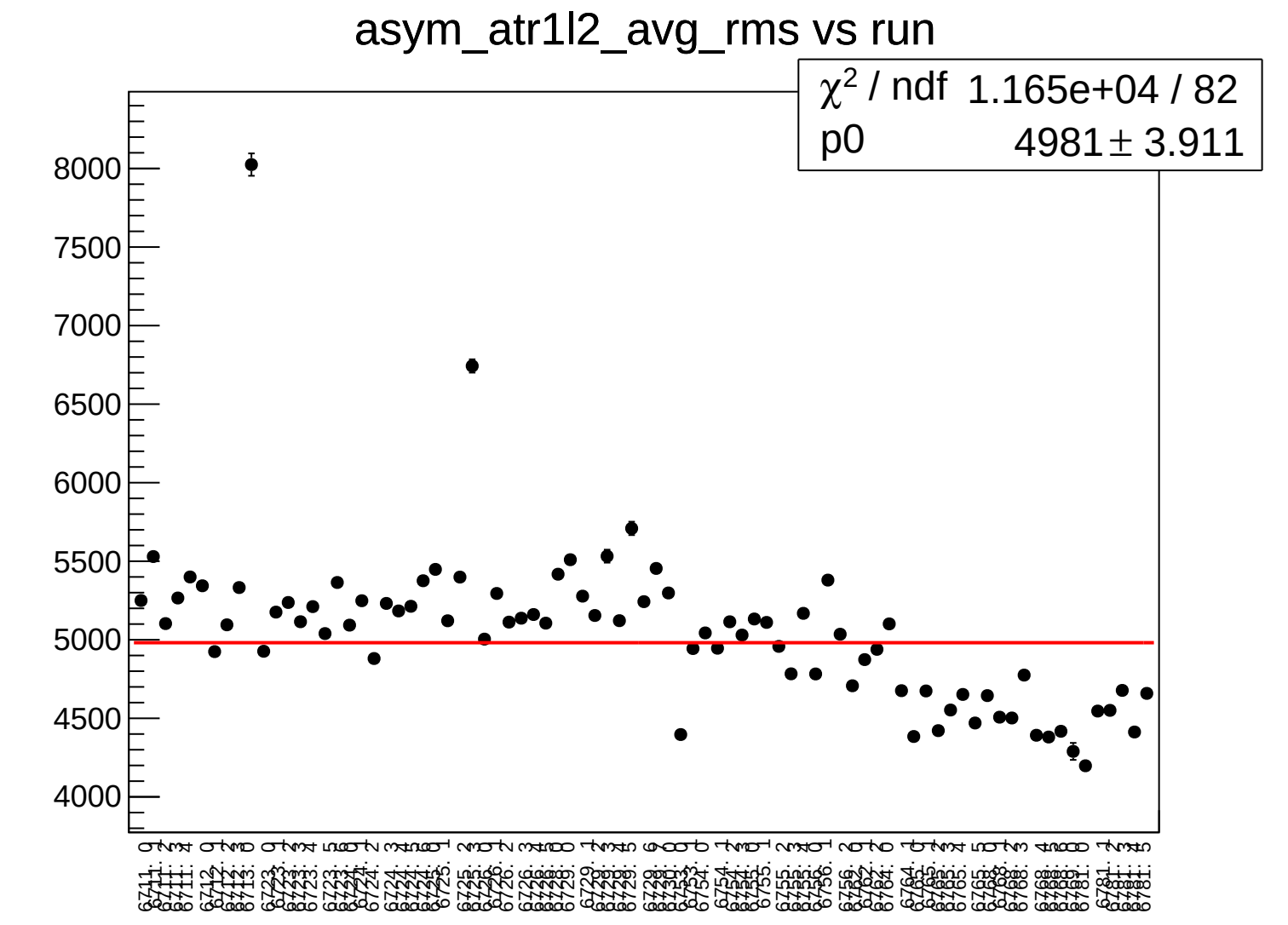

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 91.56 / 82
p0 758.6 ± 5054
pull
Entries 83
Mean −324.3
Std Dev 372.9

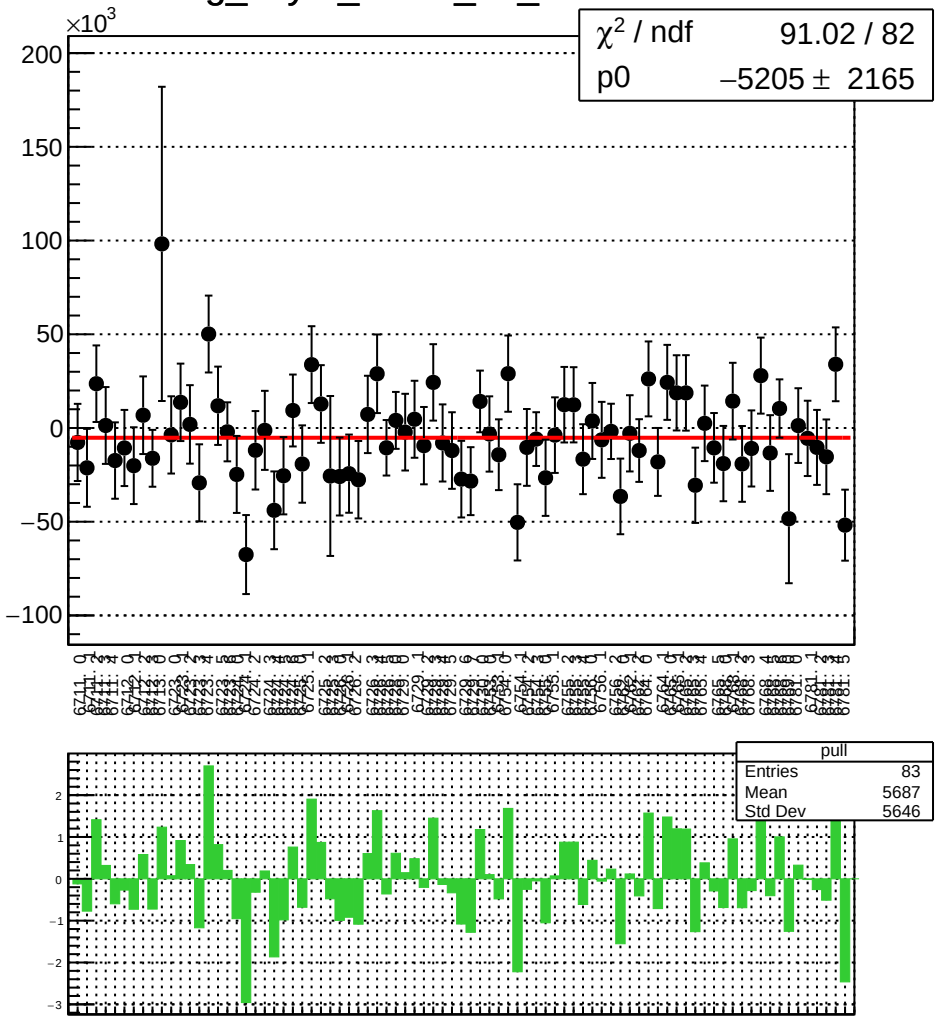

pull1D
Entries 83
Mean −0.01219
Std Dev 1.05

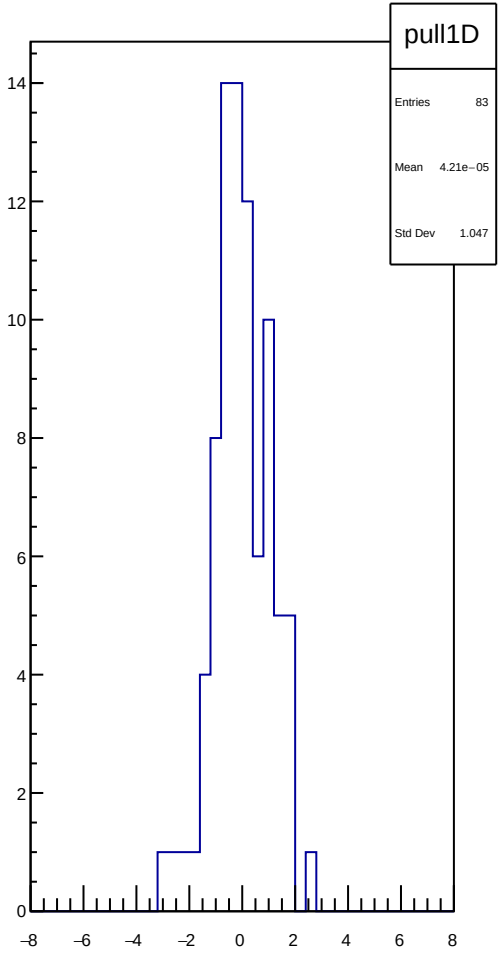

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 1.091e+04 / 82
p0 4552 ± 3.574
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

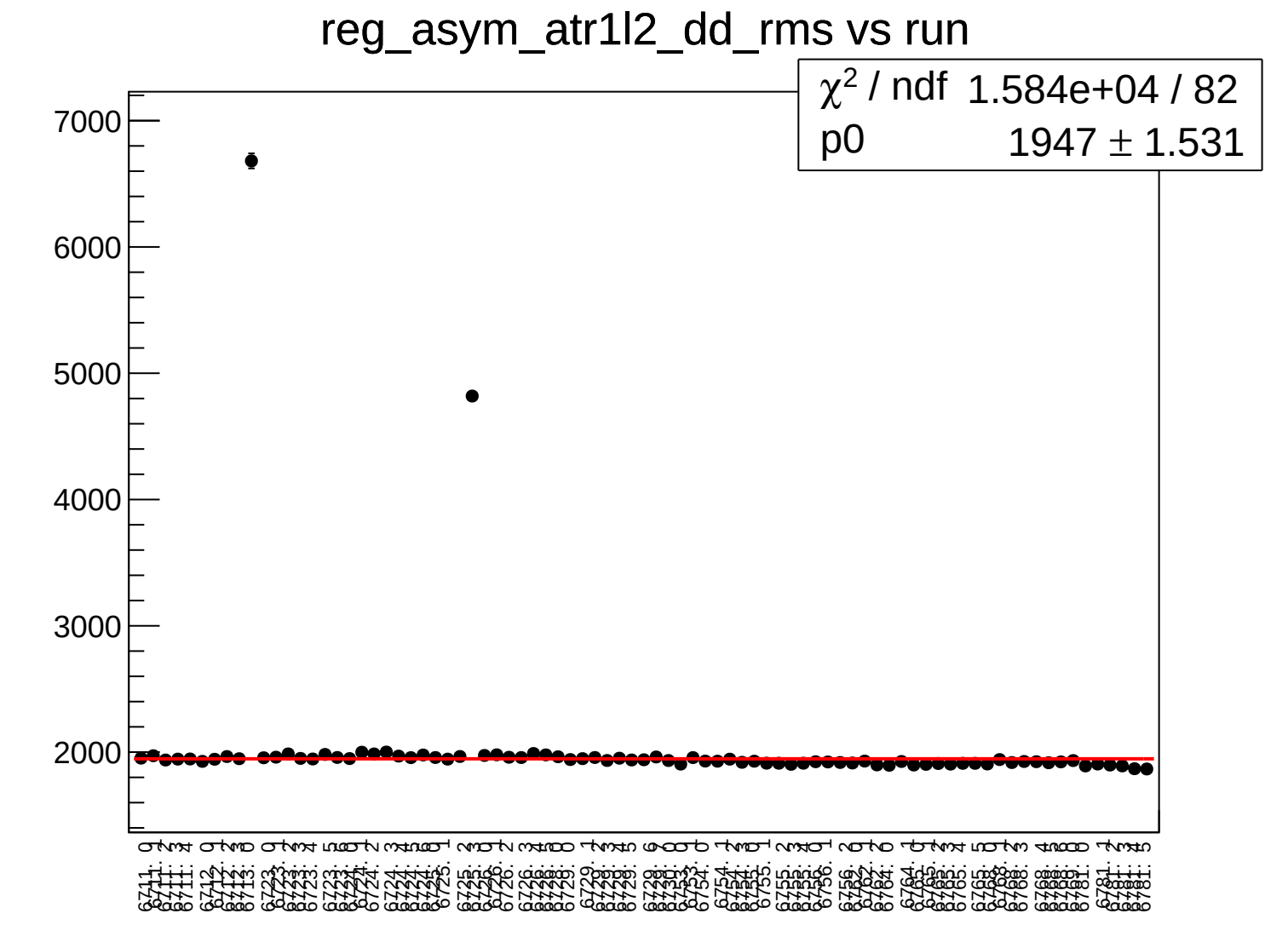

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 94.54 / 82
p0 −7538 ± 5531
pull
Entries 83
Mean −223.3
Std Dev 288.5

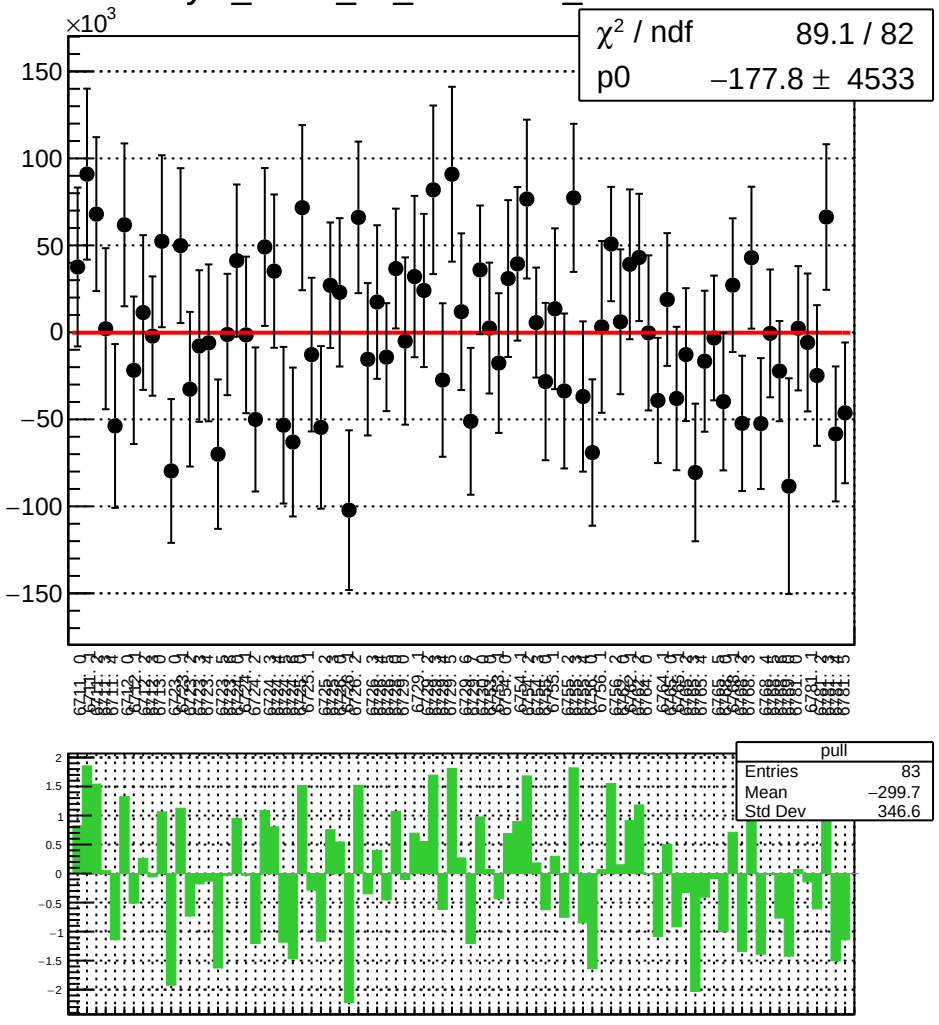

pull1D
Entries 83
Mean 0.006532
Std Dev 1.067

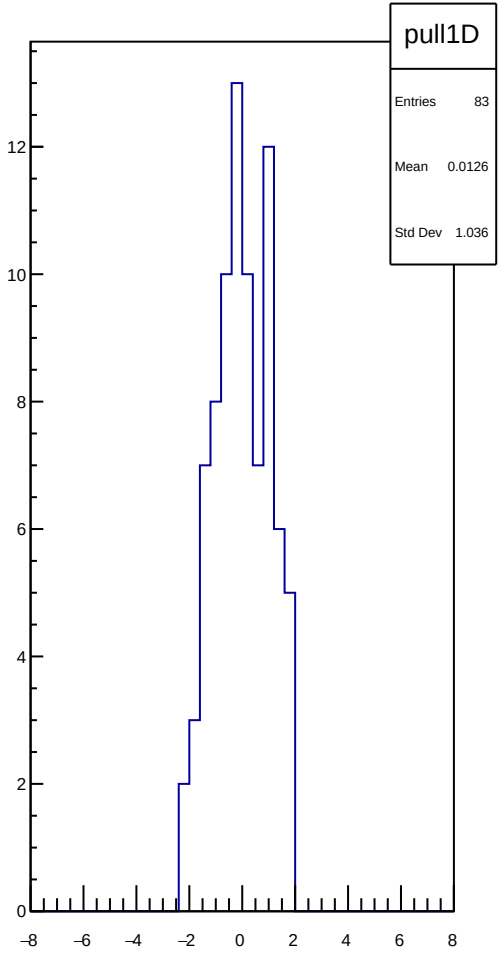

asym_atr1l2_avg_rms vs run
χ² / ndf 1.165e+04 / 82
p0 4981 ± 3.911
8000
7500
7000
6500
6000
5500
5000
4500
4000

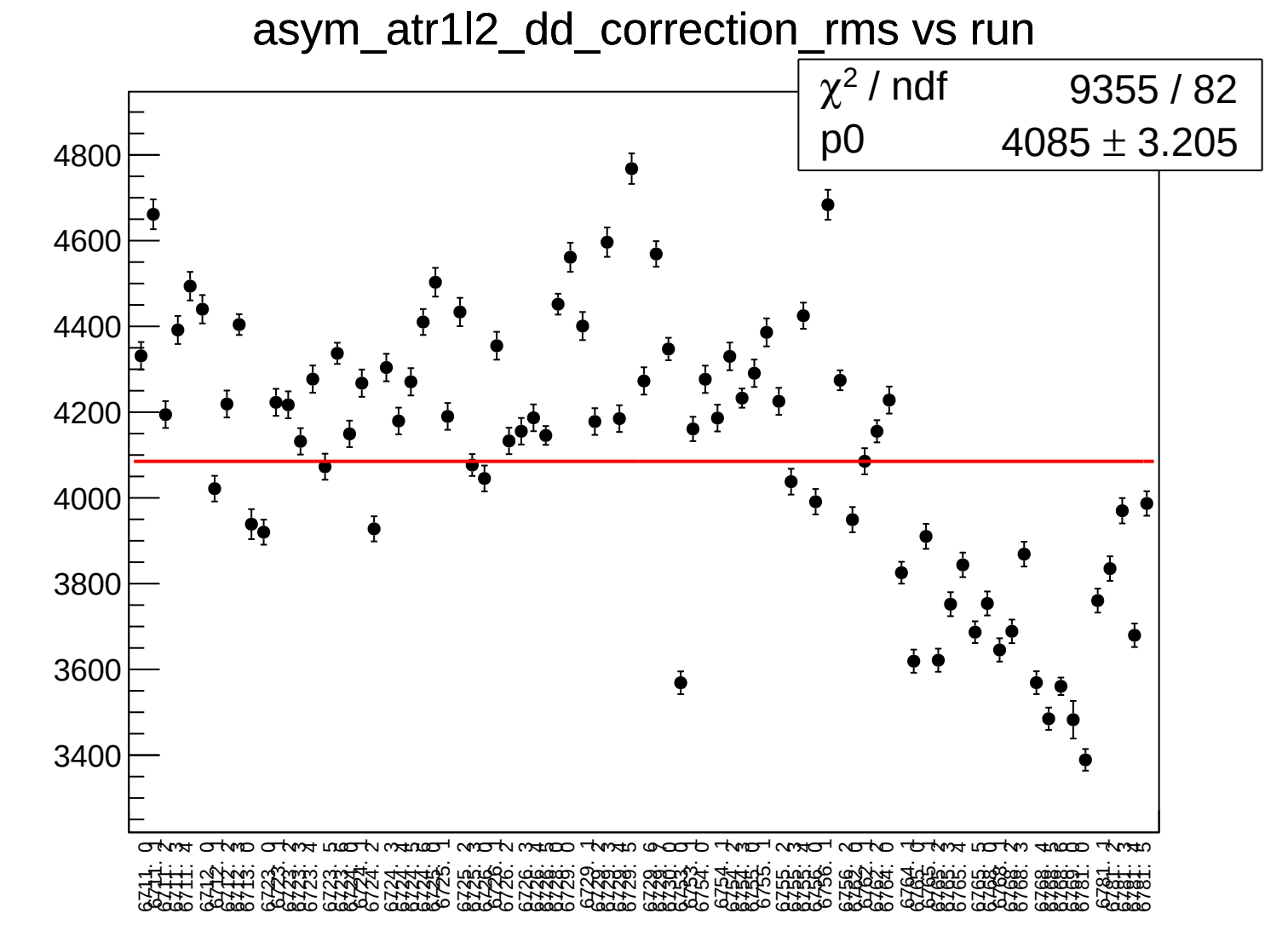

reg_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 91.02 / 82
p0 −5205 ± 2165
pull
Entries 83
Mean 5687
Std Dev 5646

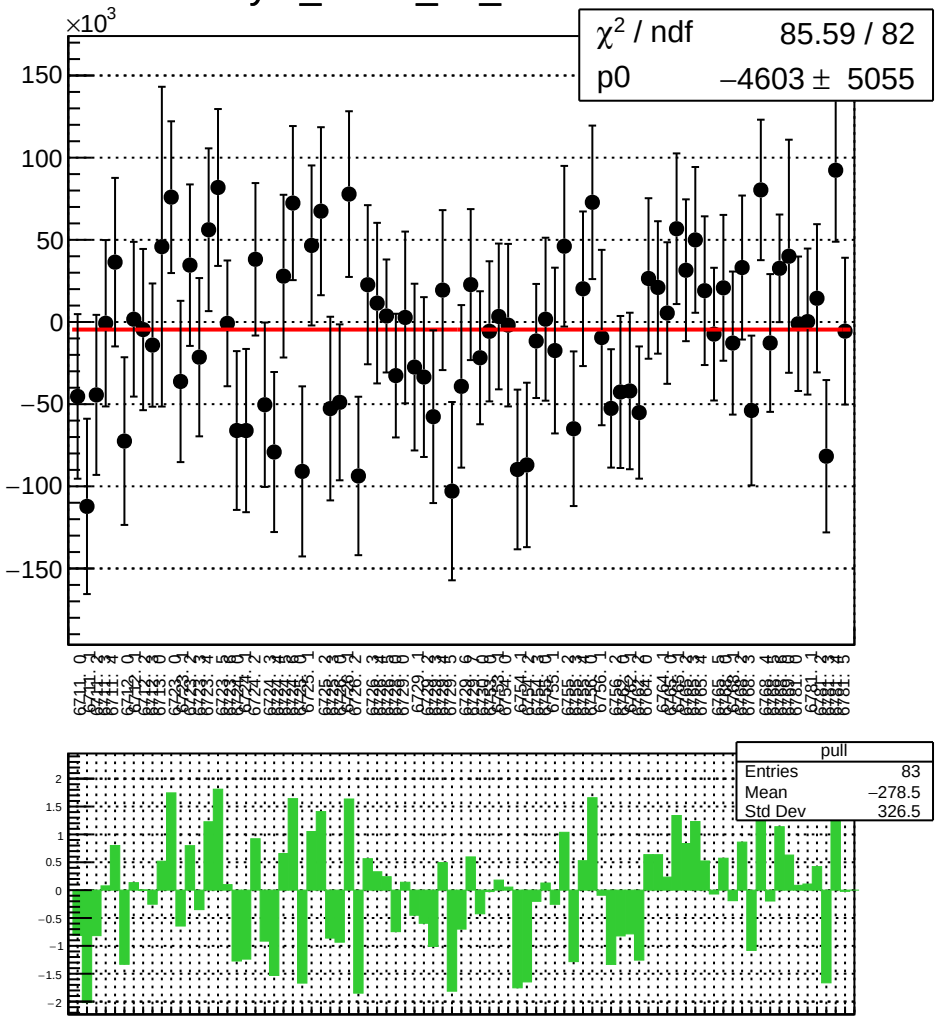

pull1D
Entries 83
Mean 4.21e−05
Std Dev 1.047

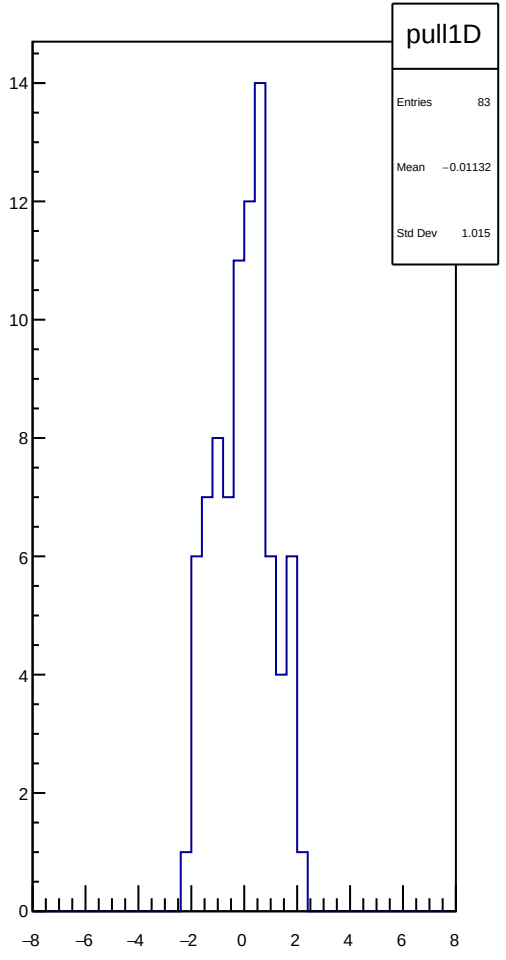

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 1.584e+04 / 82
p0 1947 ± 1.531
7000
6000
5000
4000
3000
2000

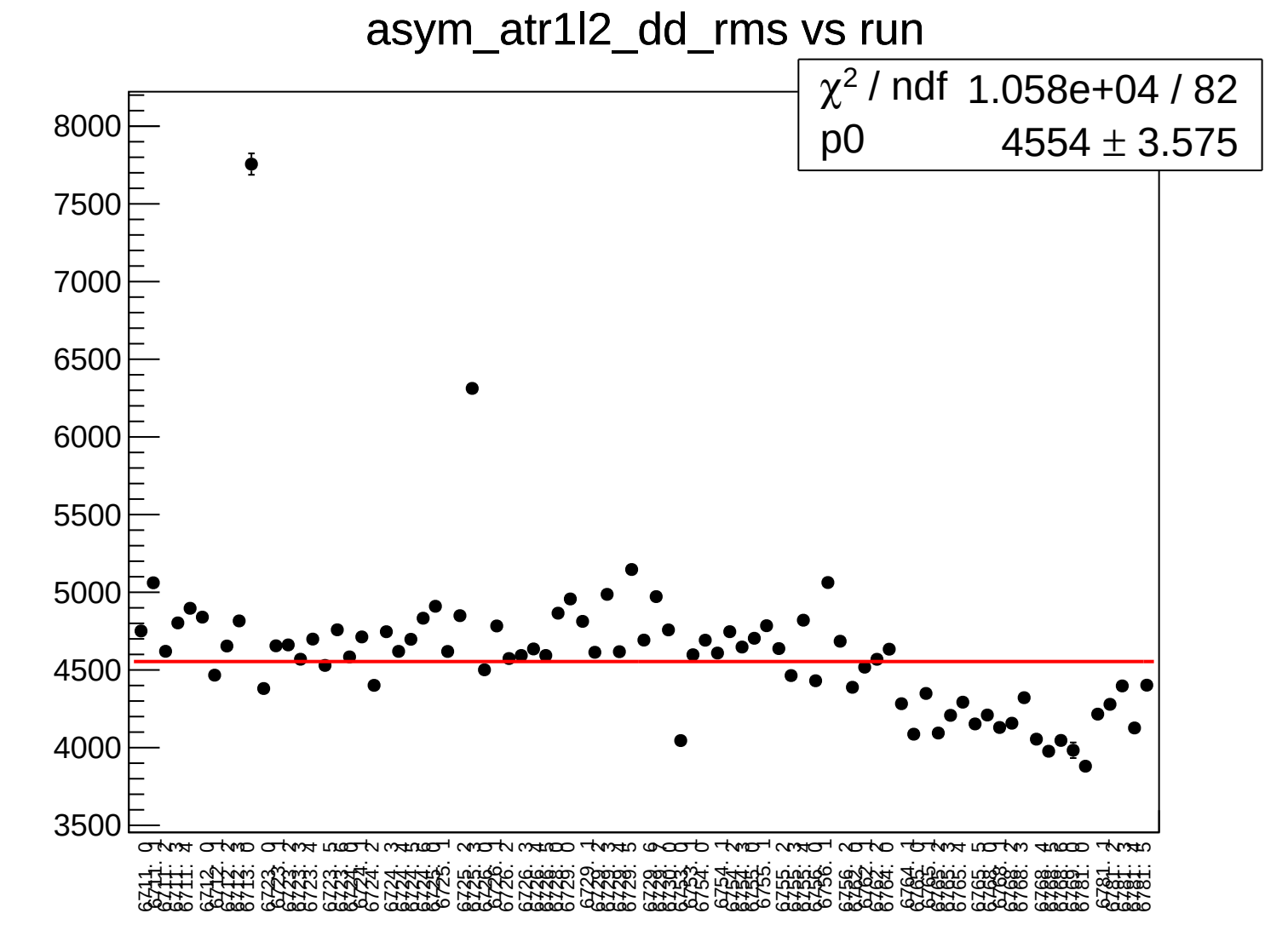

asym_atr1l2_dd_correction_mean vs run
×10^3
χ² / ndf 89.1 / 82
p0 −177.8 ± 4533
150
100
50
0
−50
−100
−150
pull
Entries 83
Mean −299.7
Std Dev 346.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

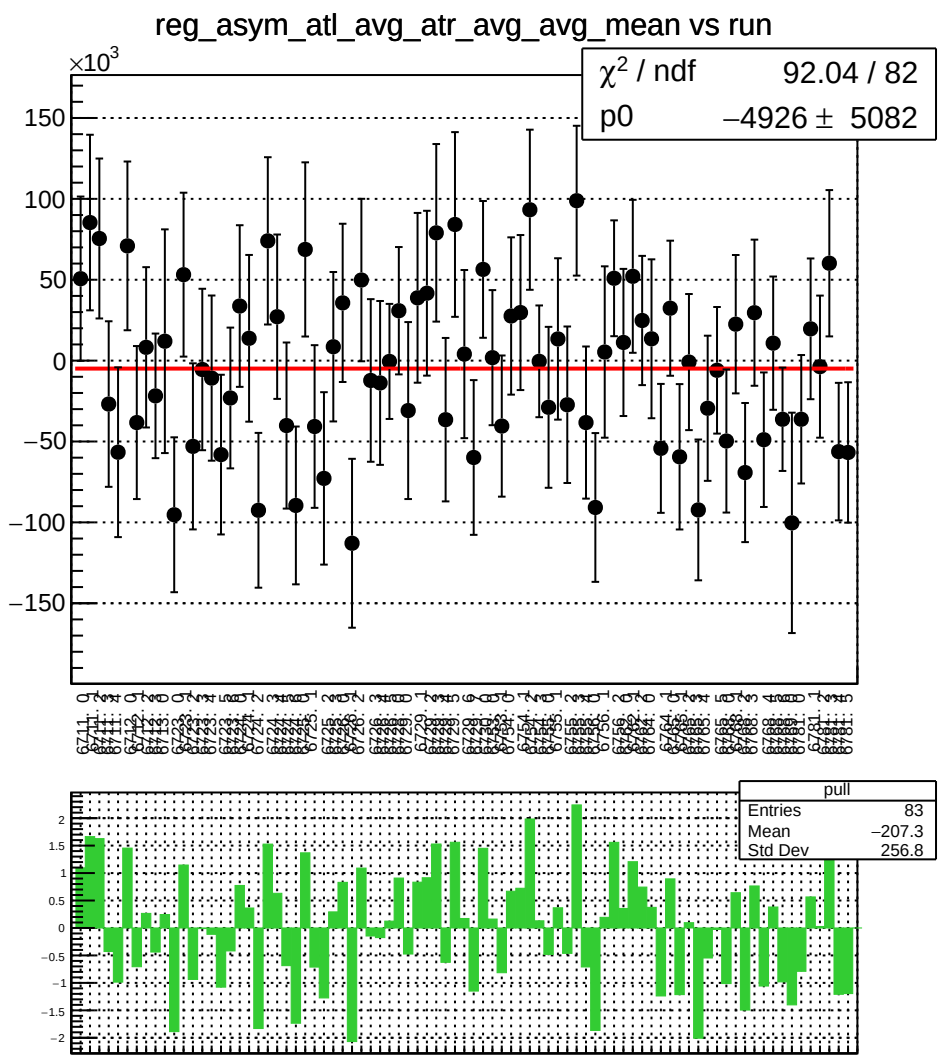

pull1D
Entries 83
Mean 0.0126
Std Dev 1.036
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

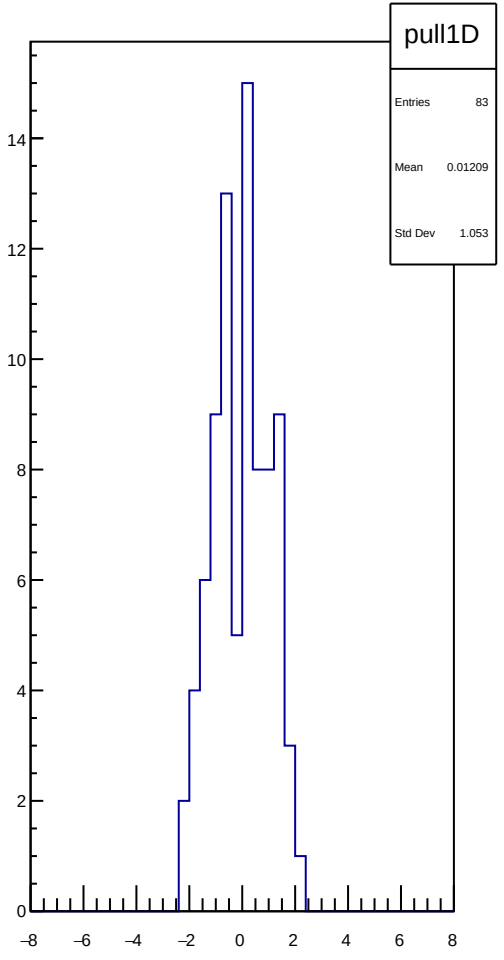

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 9355 / 82
p0 4085 ± 3.205
4800
4600
4400
4200
4000
3800
3600
3400

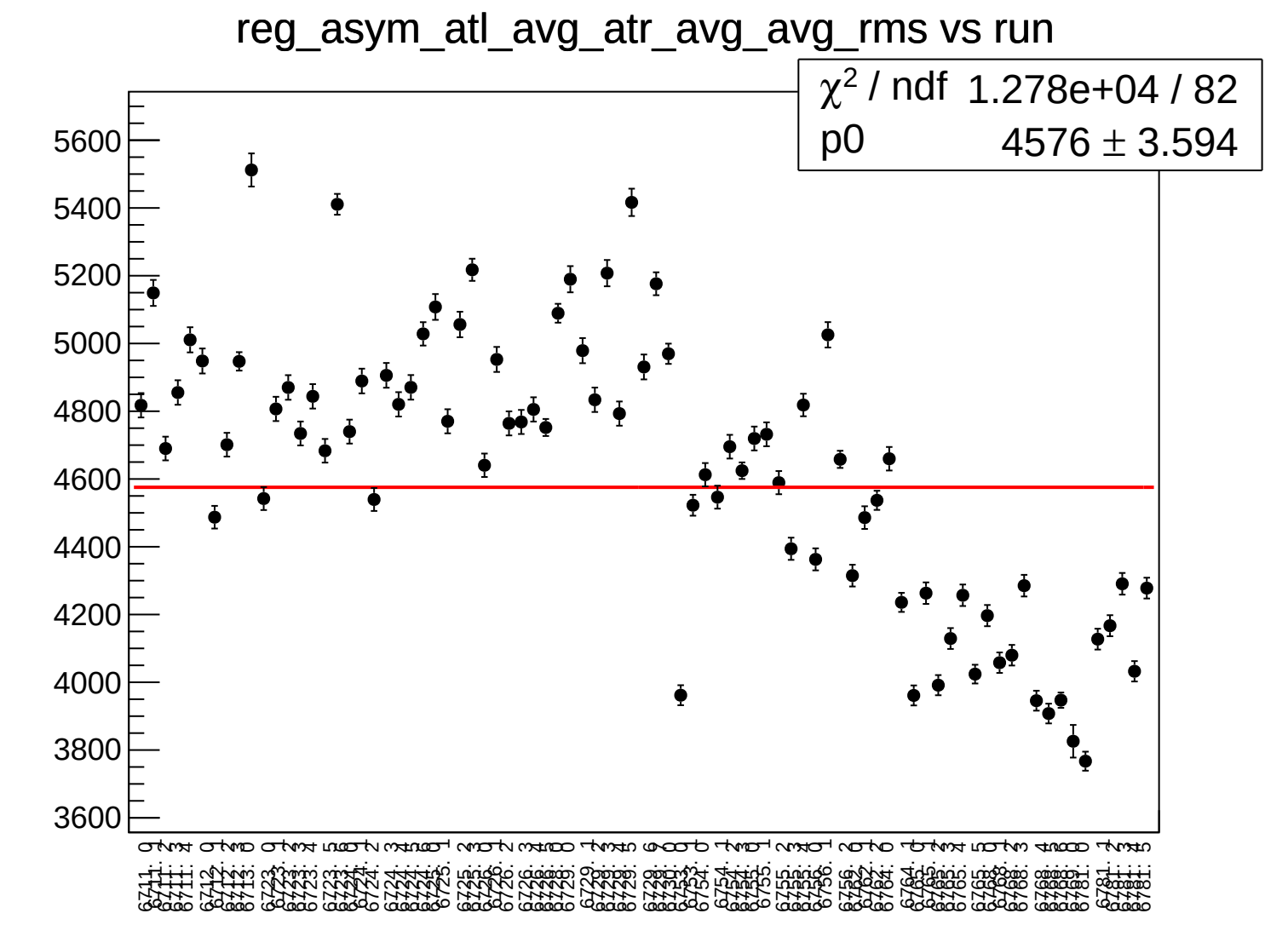

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 85.59 / 82
p0 −4603 ± 5055
150
100
50
0
−50
−100
−150
pull
Entries 83
Mean −278.5
Std Dev 326.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

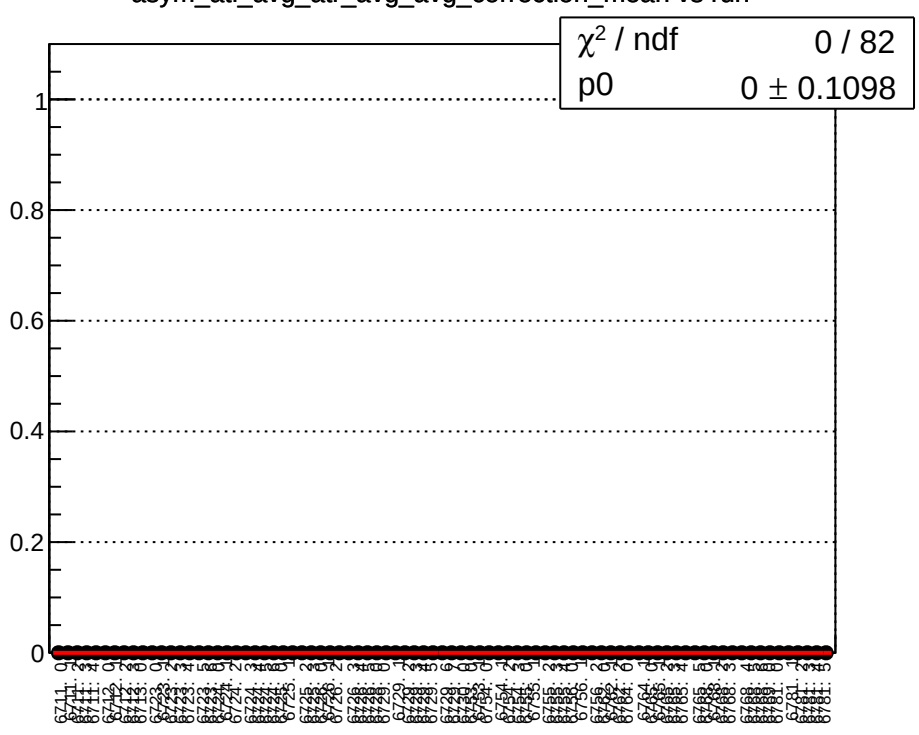

pull1D
Entries 83
Mean −0.01132
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

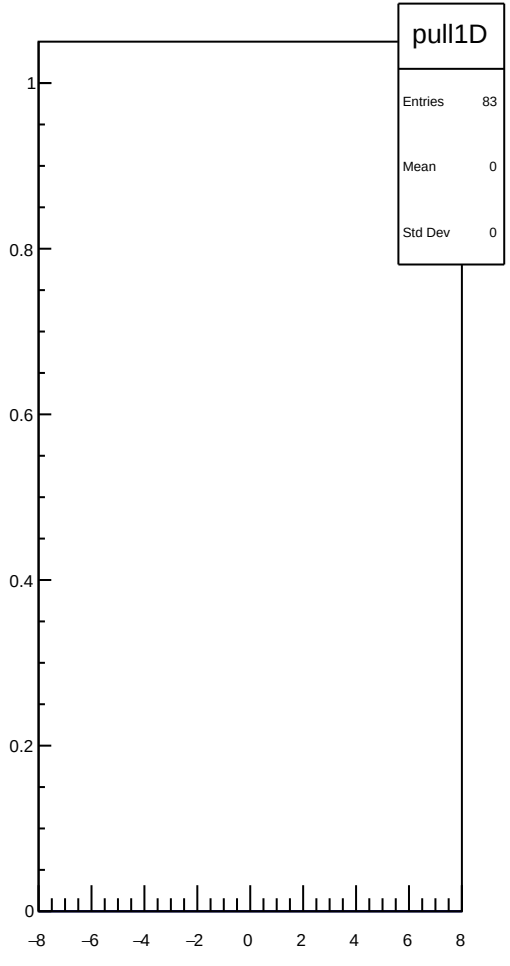

asym_atr1l2_dd_rms vs run
χ² / ndf 1.058e+04 / 82
p0 4554 ± 3.575
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500

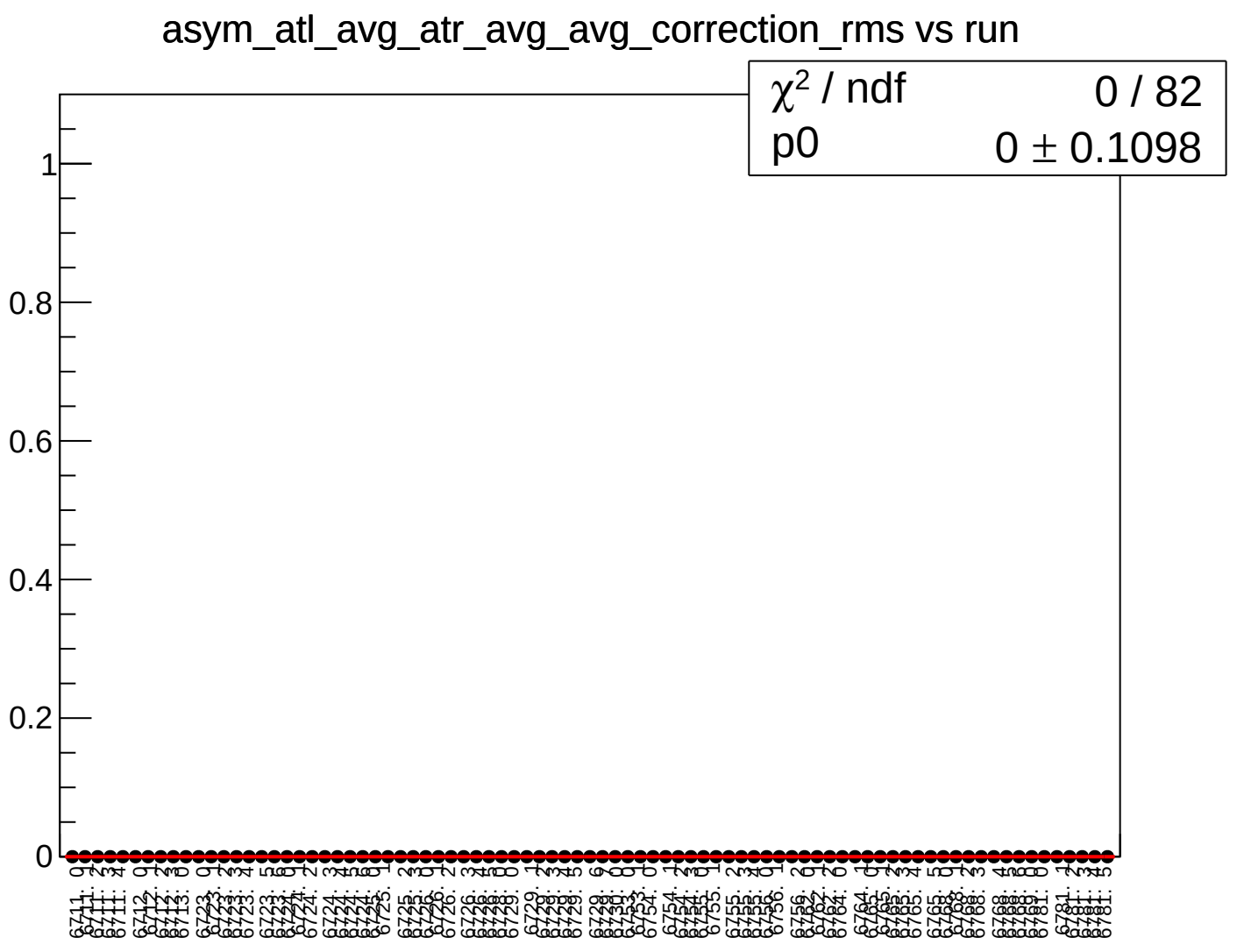

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 92.04 / 82
p0 −4926 ± 5082
pull
Entries 83
Mean −207.3
Std Dev 256.8

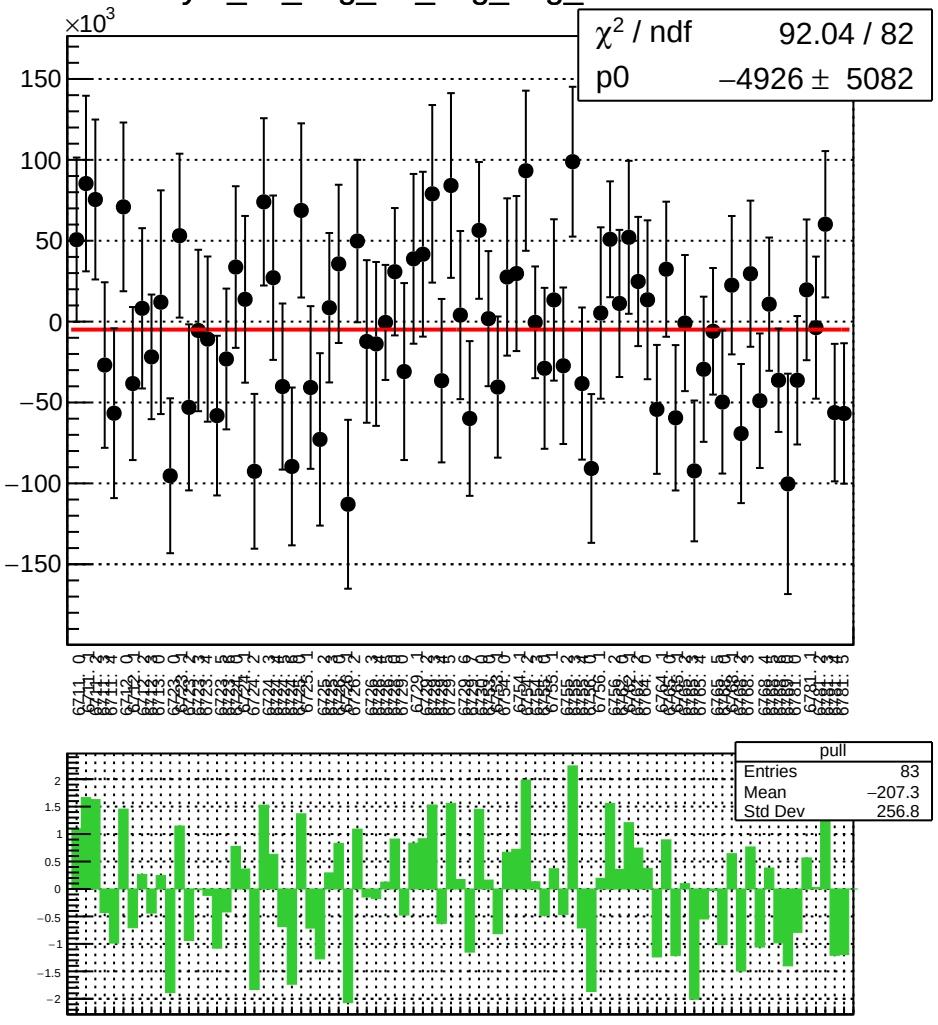

pull1D
Entries 83
Mean 0.01209
Std Dev 1.053

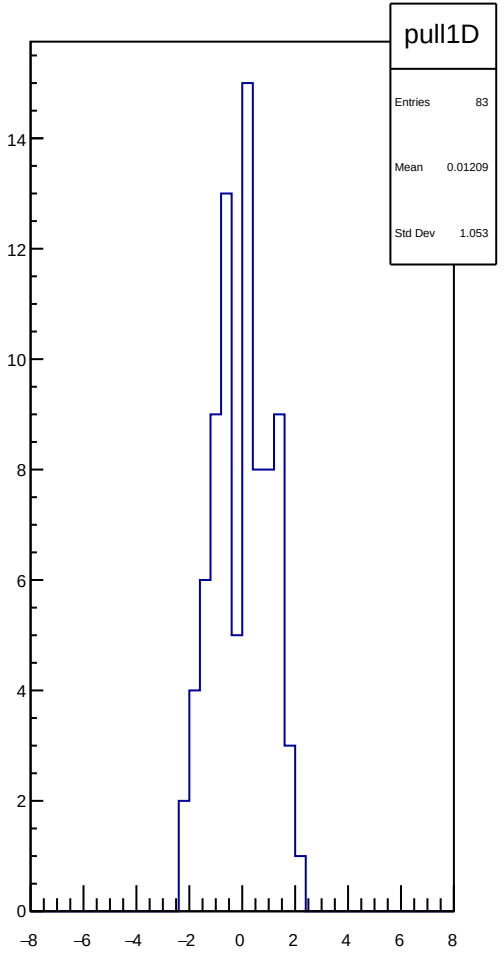

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.278e+04 / 82
p0 4576 ± 3.594
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

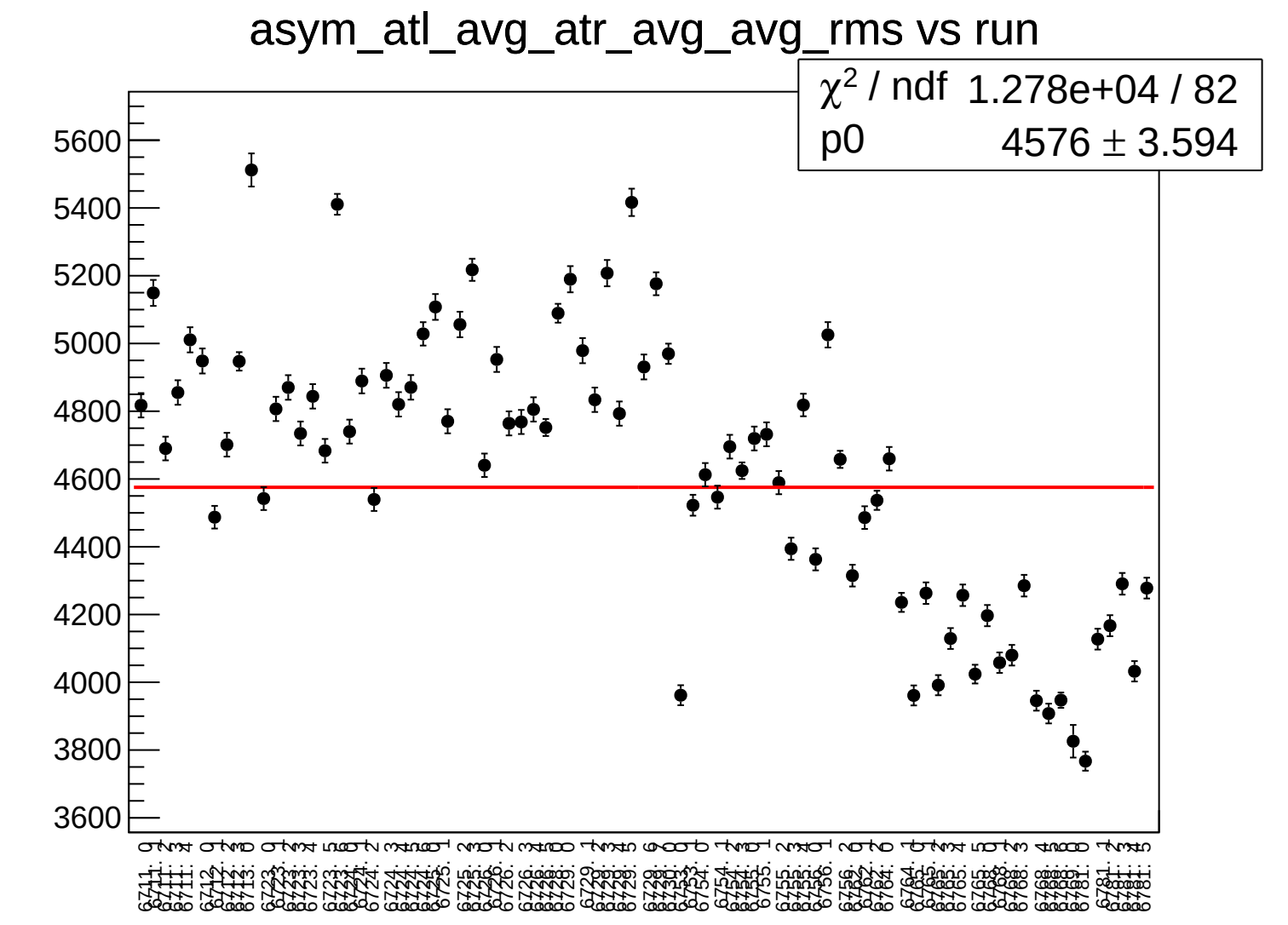

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 82
p0 0 ± 0.1098
1
0.8
0.6
0.4
0.2
0

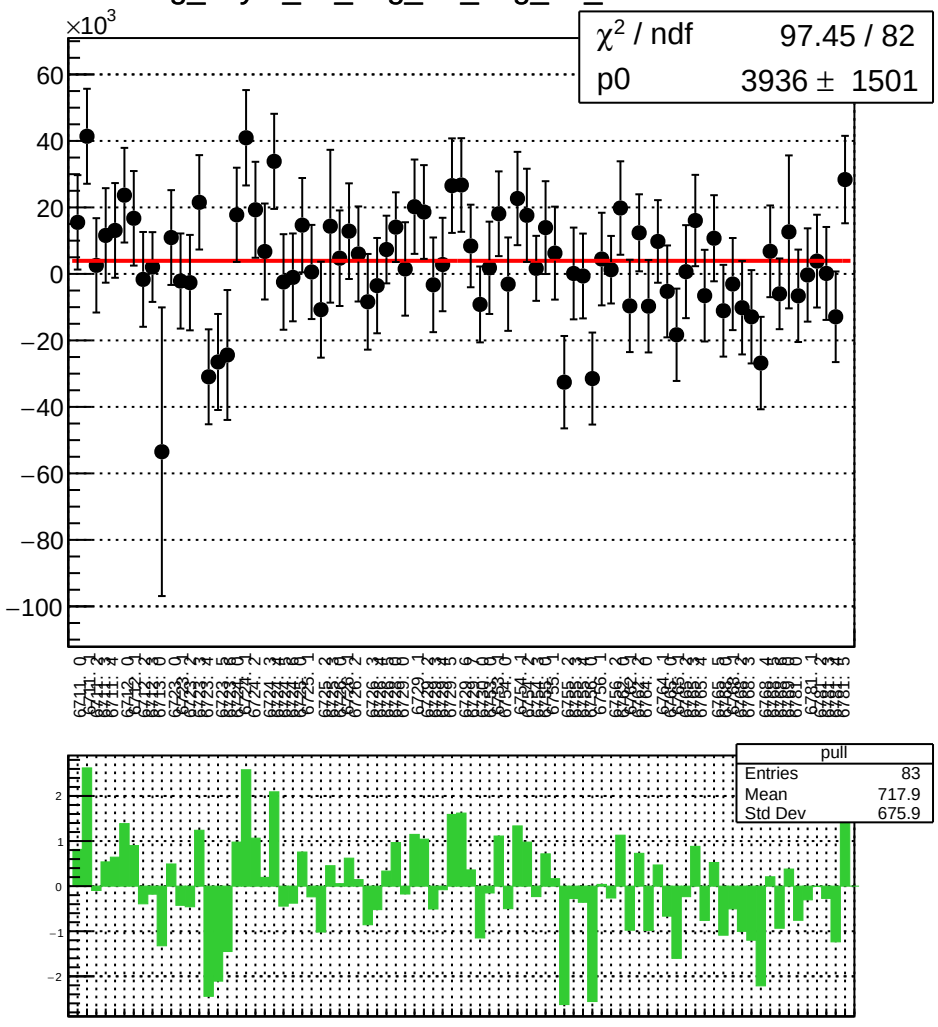

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

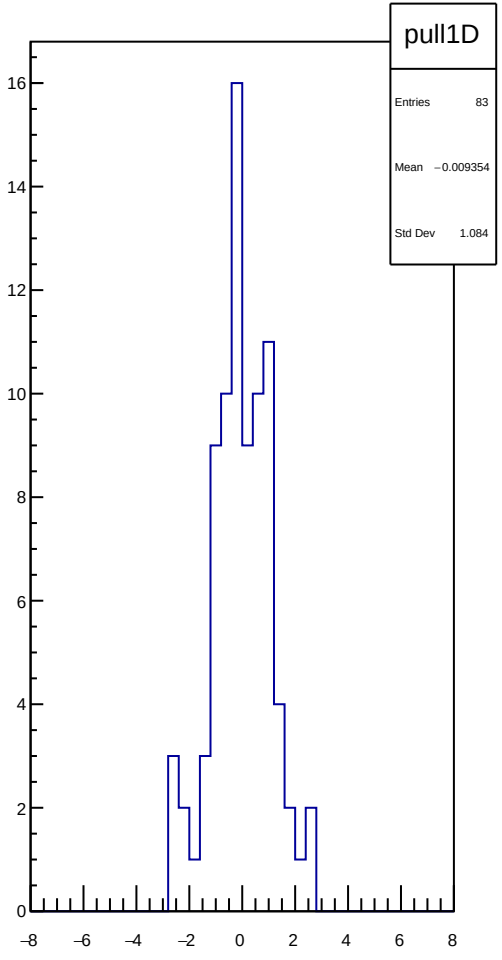

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 82
p0 0 ± 0.1098
1
0.8
0.6
0.4
0.2
0

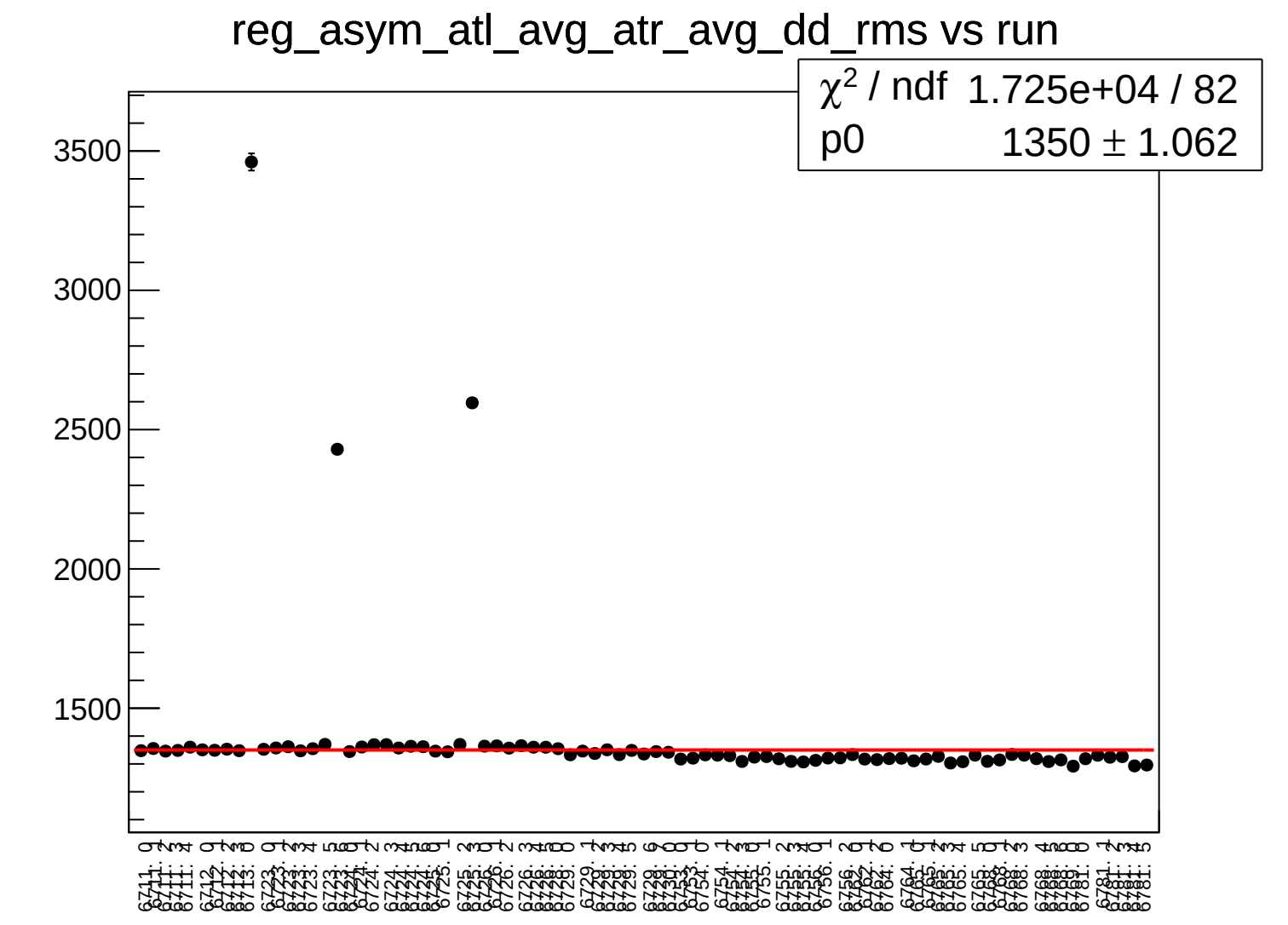

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 92.04 / 82
p0 −4926 ± 5082
pull
Entries 83
Mean −207.3
Std Dev 256.8

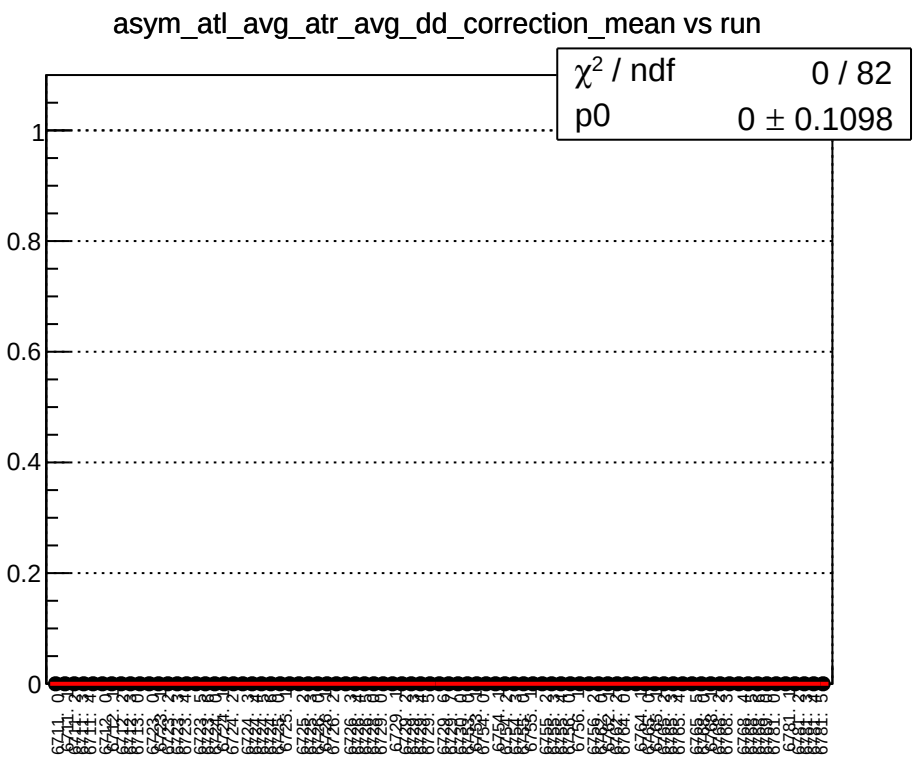

pull1D
Entries 83
Mean 0.01209
Std Dev 1.053

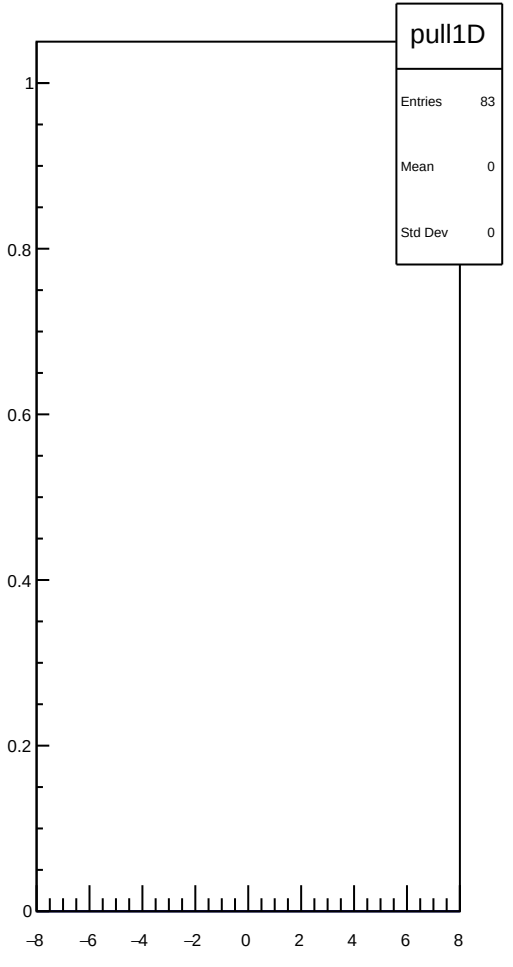

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.278e+04 / 82
p0 4576 ± 3.594
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

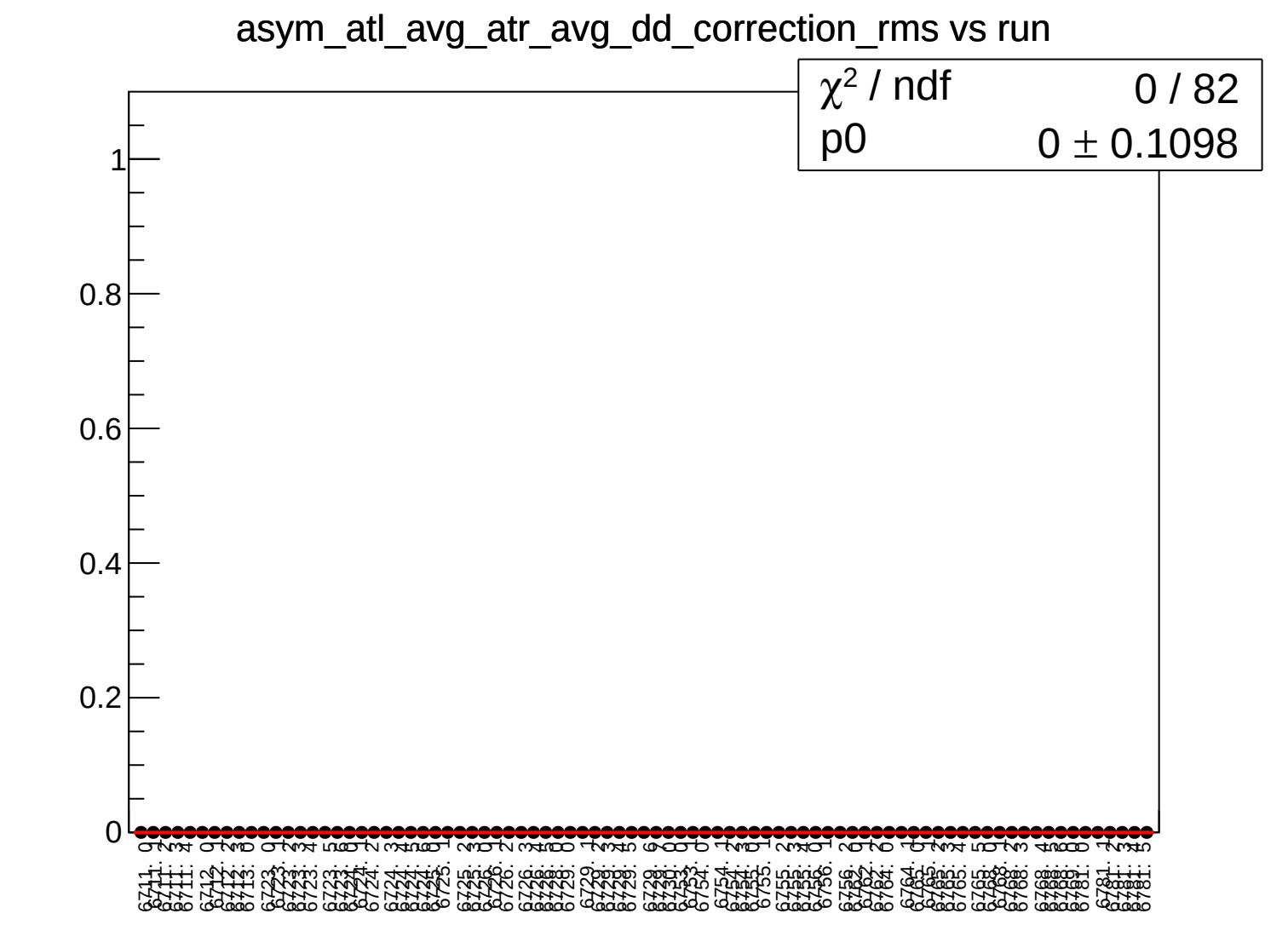

reg_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 97.45 / 82
p0 3936 ± 1501
pull
Entries 83
Mean 717.9
Std Dev 675.9

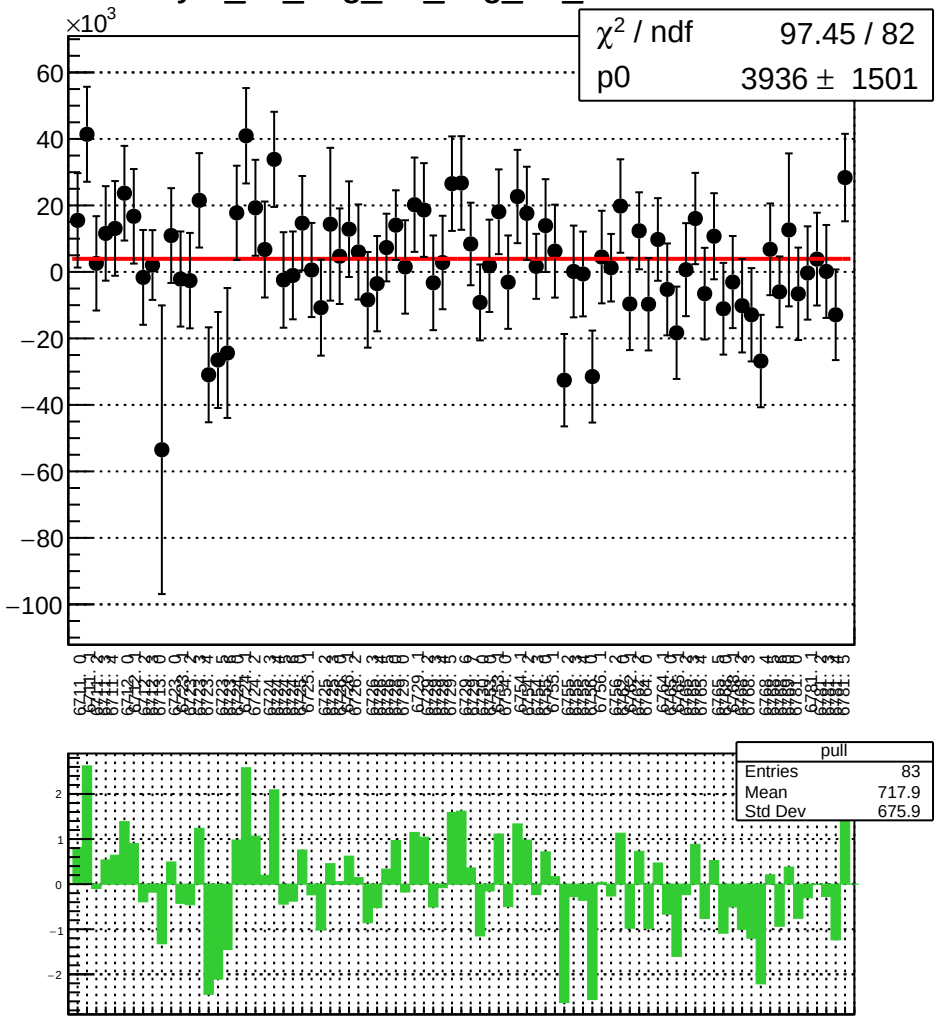

pull1D
Entries 83
Mean −0.009354
Std Dev 1.084

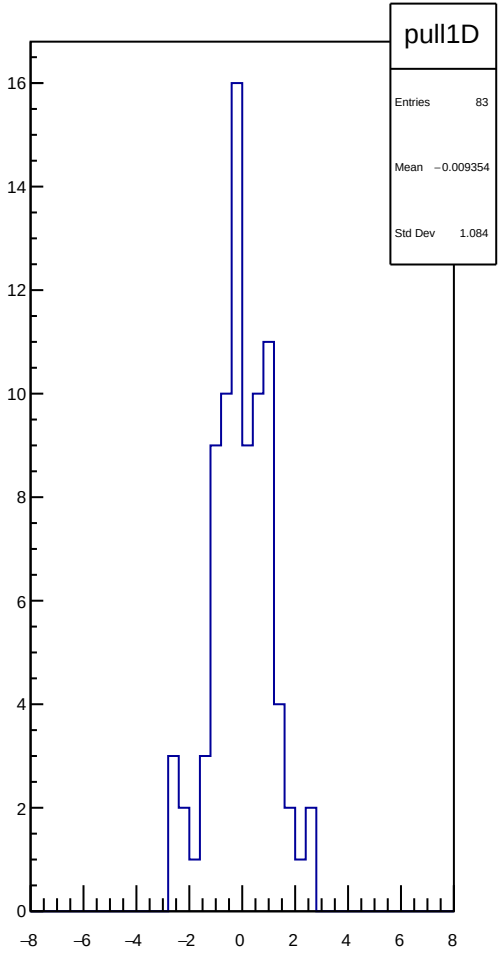

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.725e+04 / 82
p0 1350 ± 1.062
3500
3000
2500
2000
1500

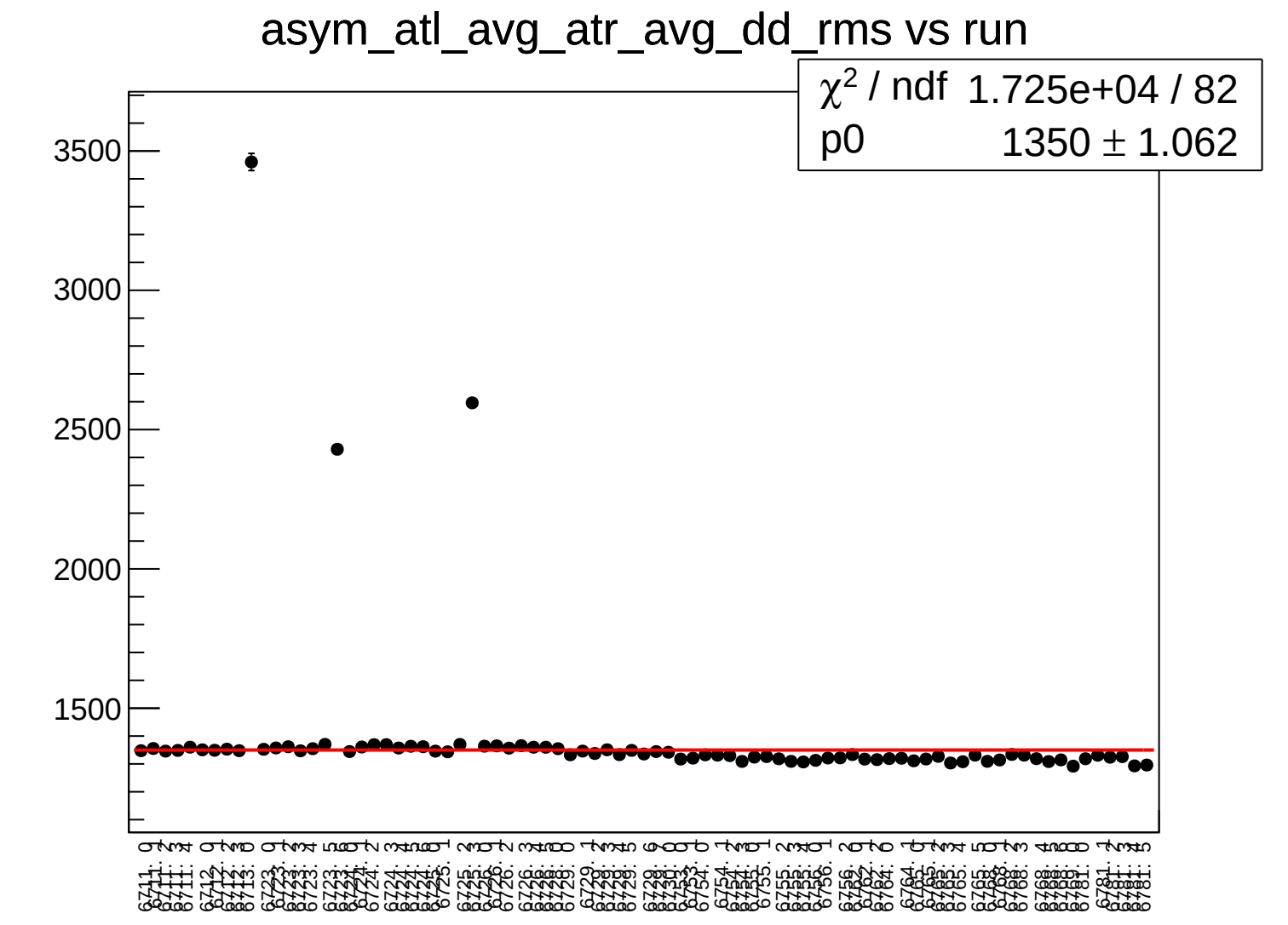

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 82
p0 0 ± 0.1098
1
0.8
0.6
0.4
0.2
0

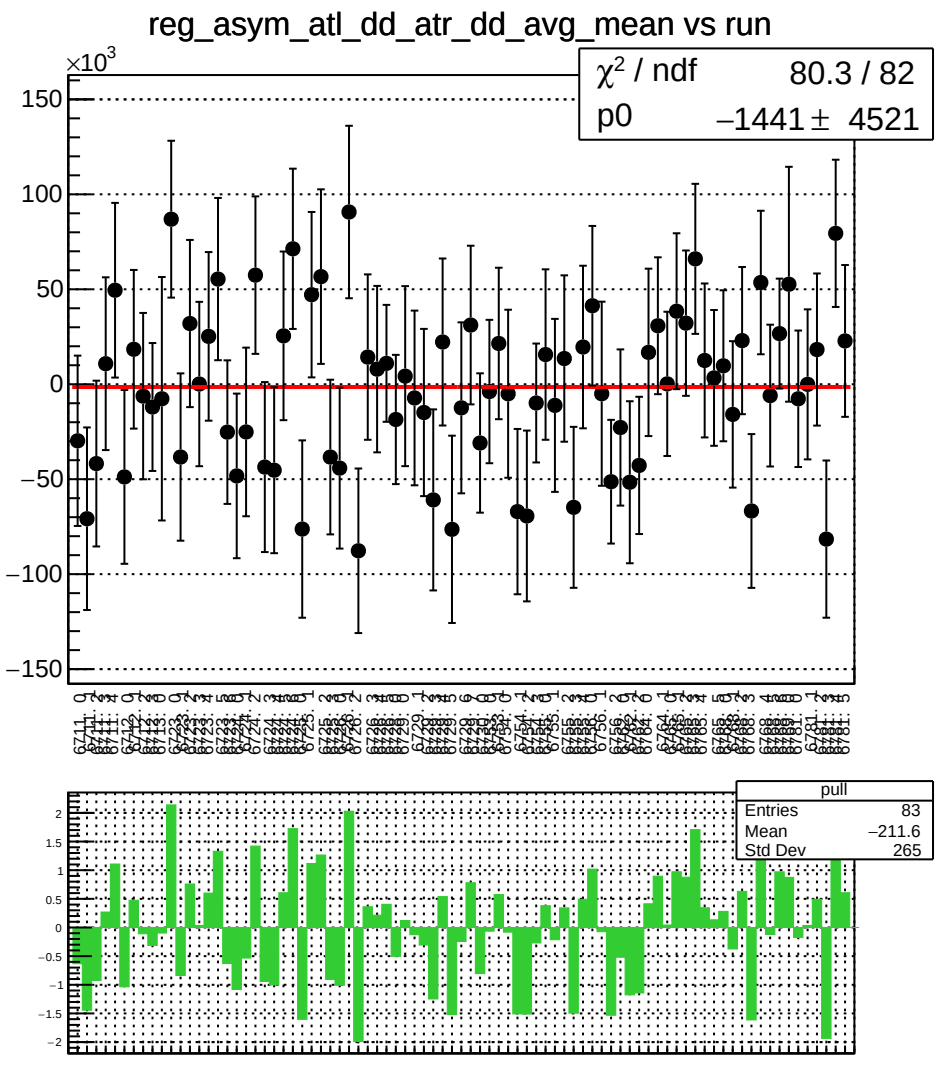

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

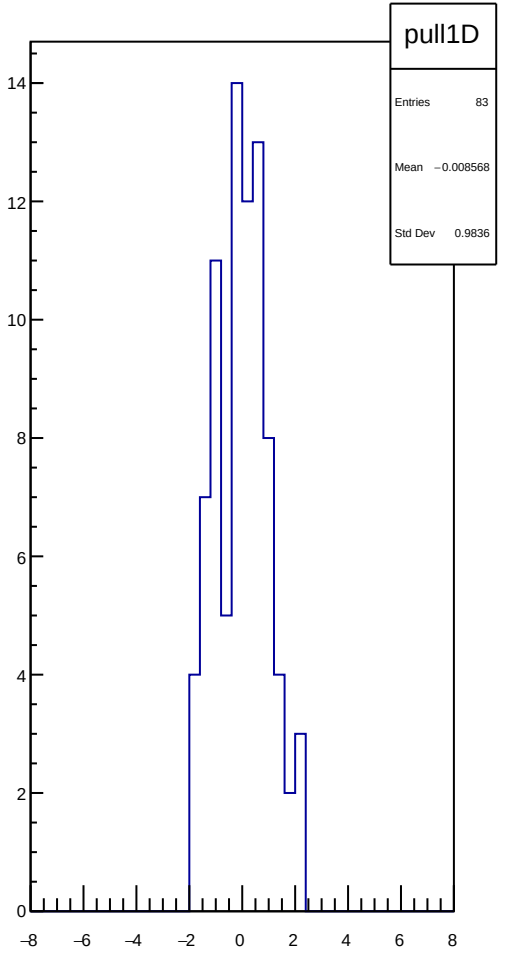

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 82
p0 0 ± 0.1098
1
0.8
0.6
0.4
0.2
0

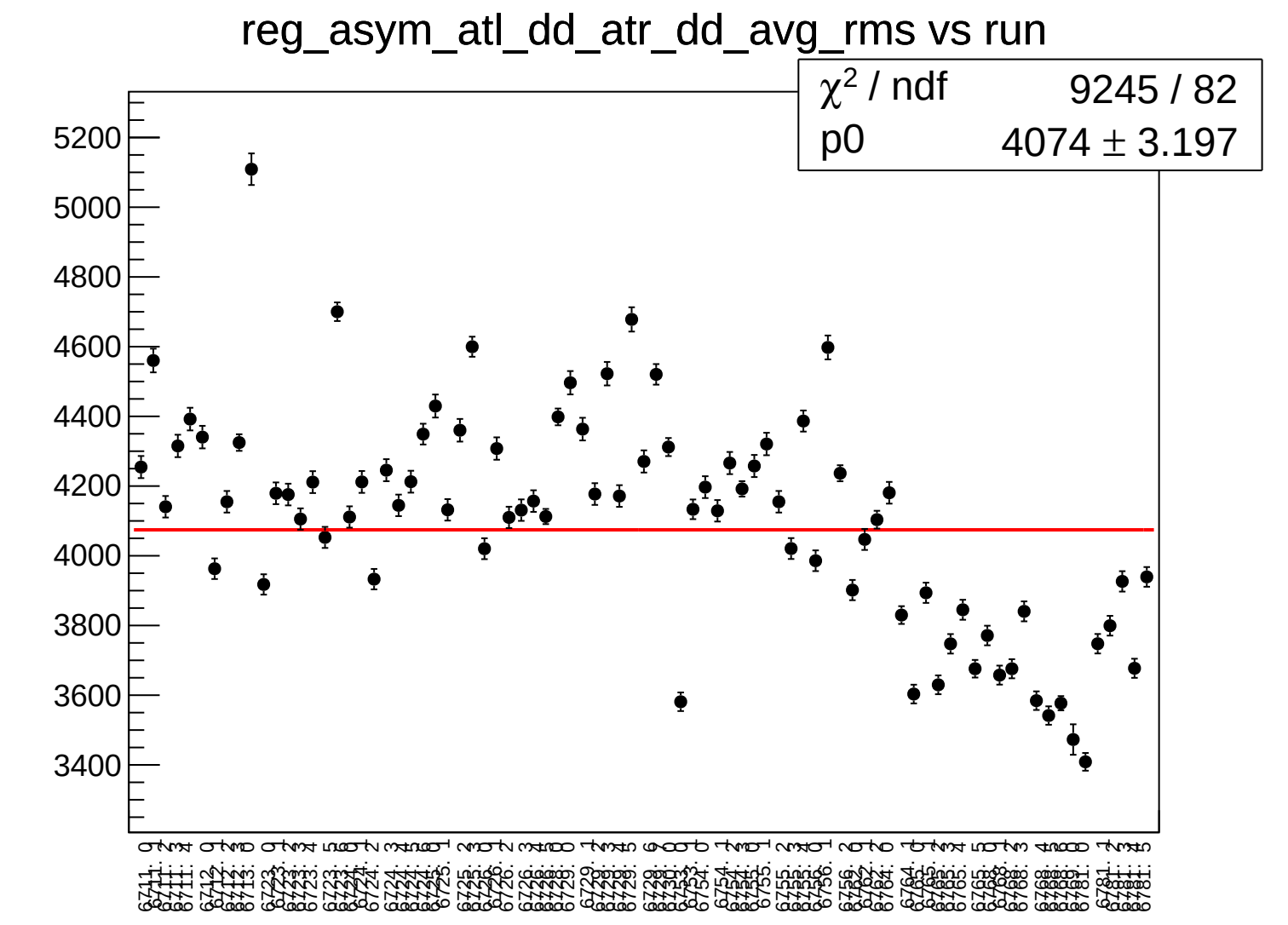

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 97.45 / 82
p0 3936 ± 1501
pull
Entries 83
Mean 717.9
Std Dev 675.9

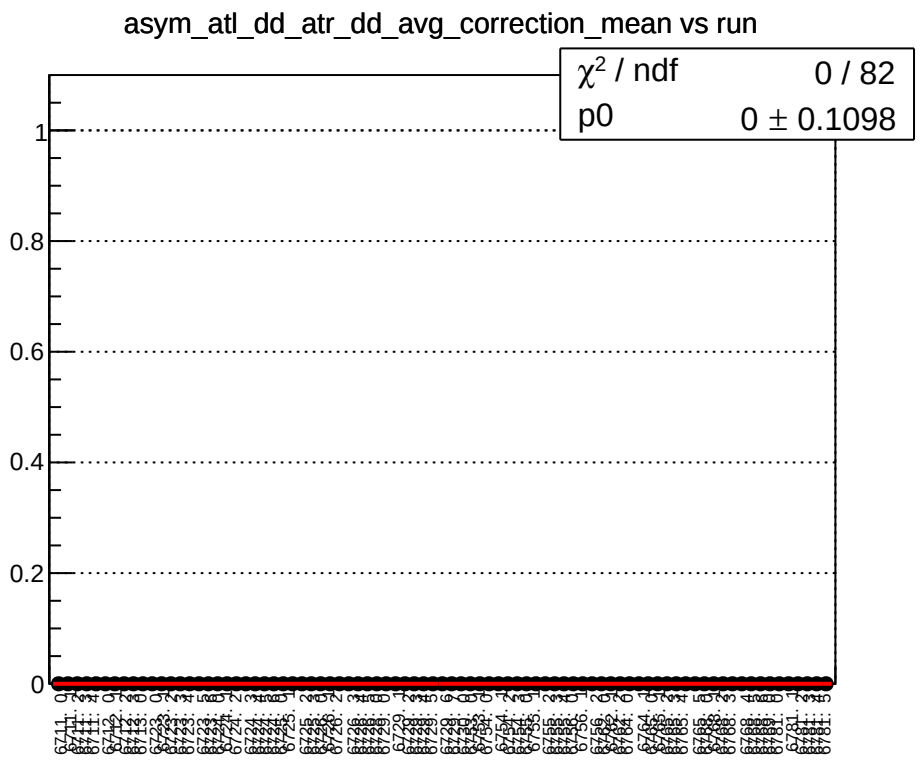

pull1D
Entries 83
Mean −0.009354
Std Dev 1.084

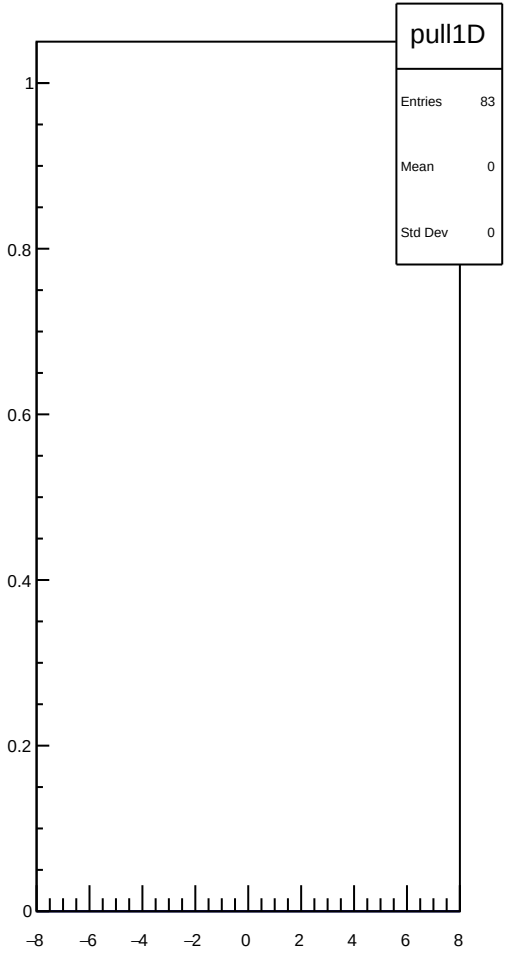

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.725e+04 / 82
p0 1350 ± 1.062
3500
3000
2500
2000
1500

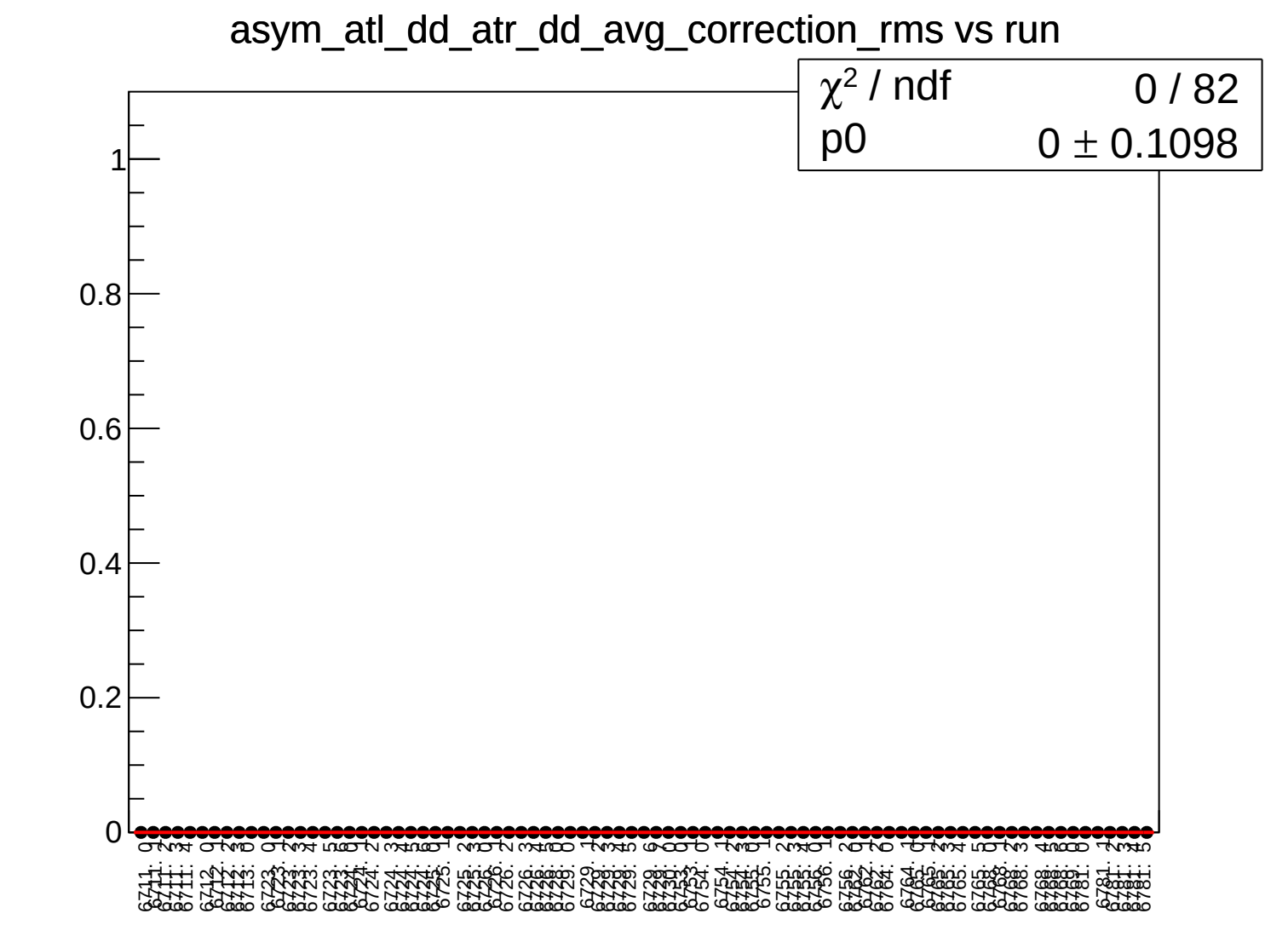

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 80.3 / 82
p0 −1441 ± 4521
pull
Entries 83
Mean −211.6
Std Dev 265

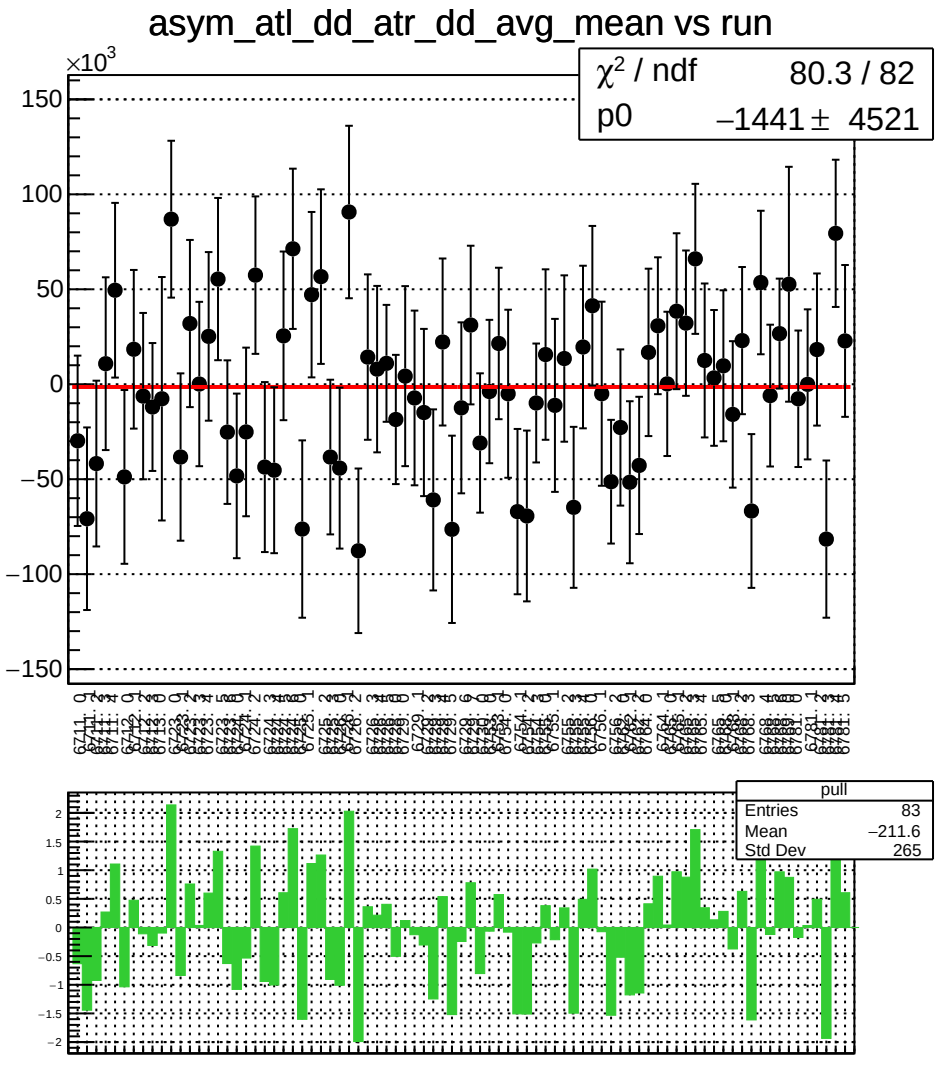

pull1D
Entries 83
Mean −0.008568
Std Dev 0.9836

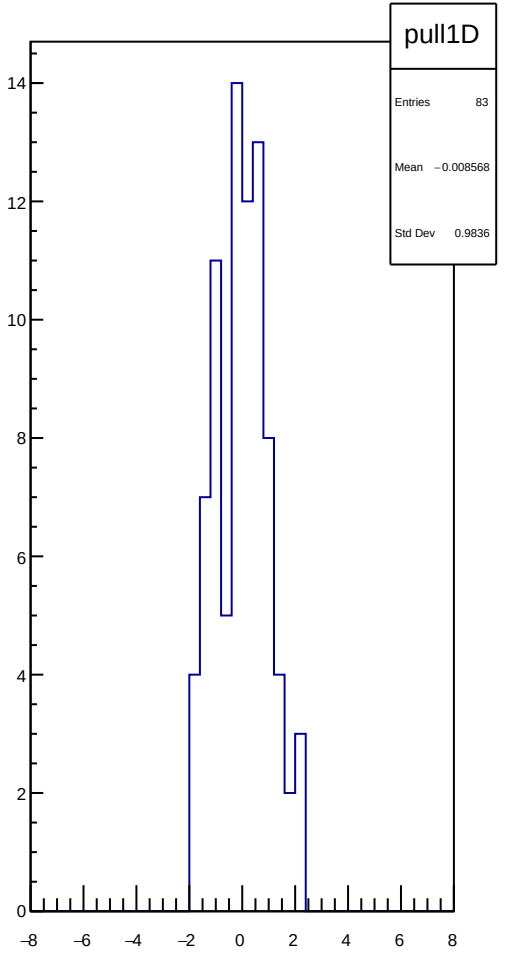

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 9245 / 82
p0 4074 ± 3.197
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400


asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 82
p0 0 ± 0.1098
1
0.8
0.6
0.4
0.2
0

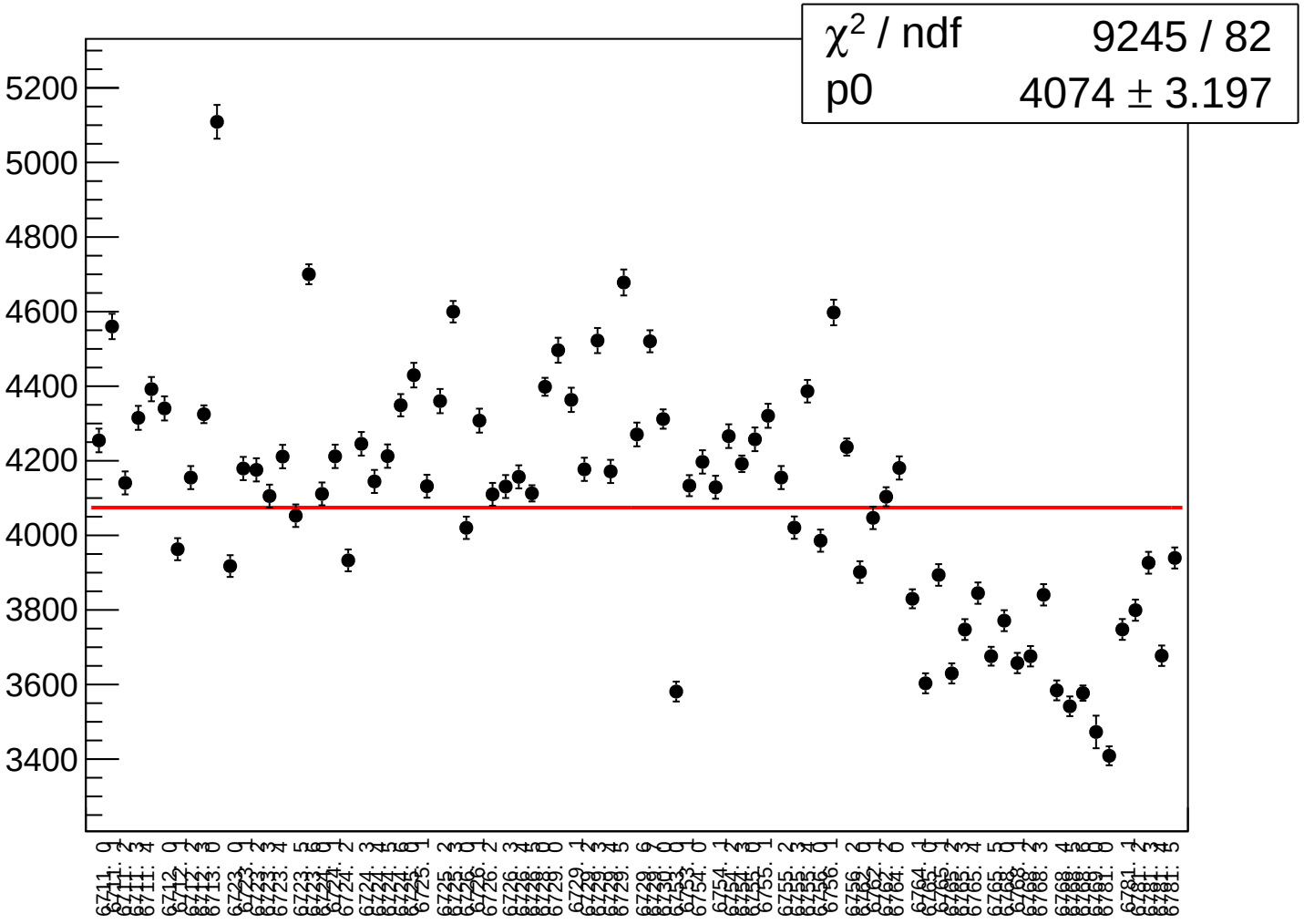

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

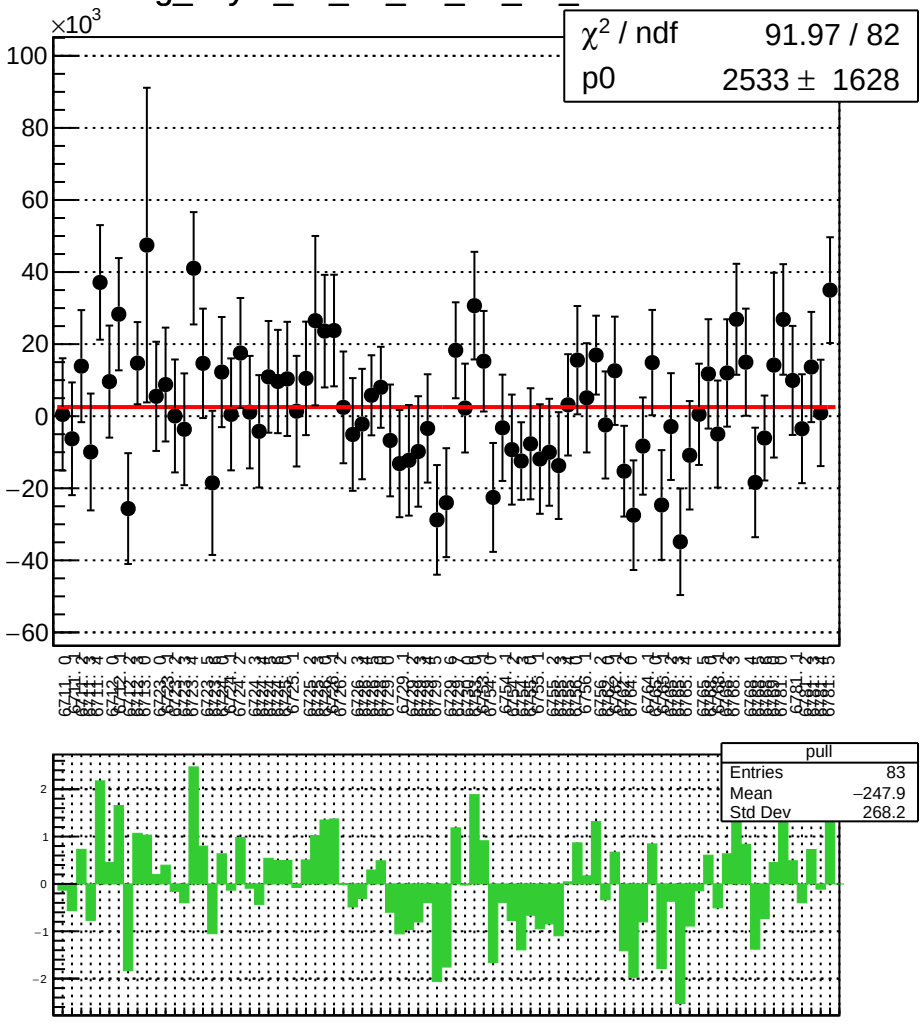

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 82
p0 0 ± 0.1098
1
0.8
0.6
0.4
0.2
0

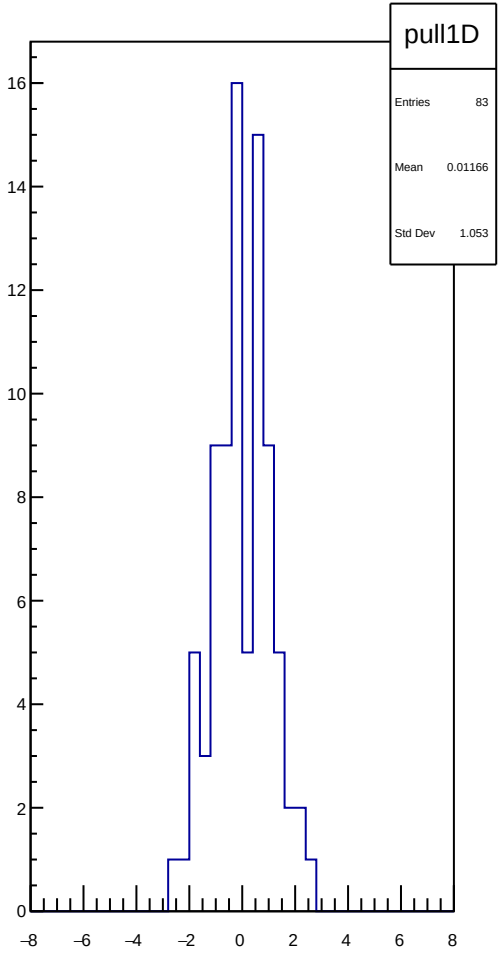

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 80.3 / 82
p0 −1441 ± 4521
150
100
50
0
−50
−100
−150
pull
Entries 83
Mean −211.6
Std Dev 265
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

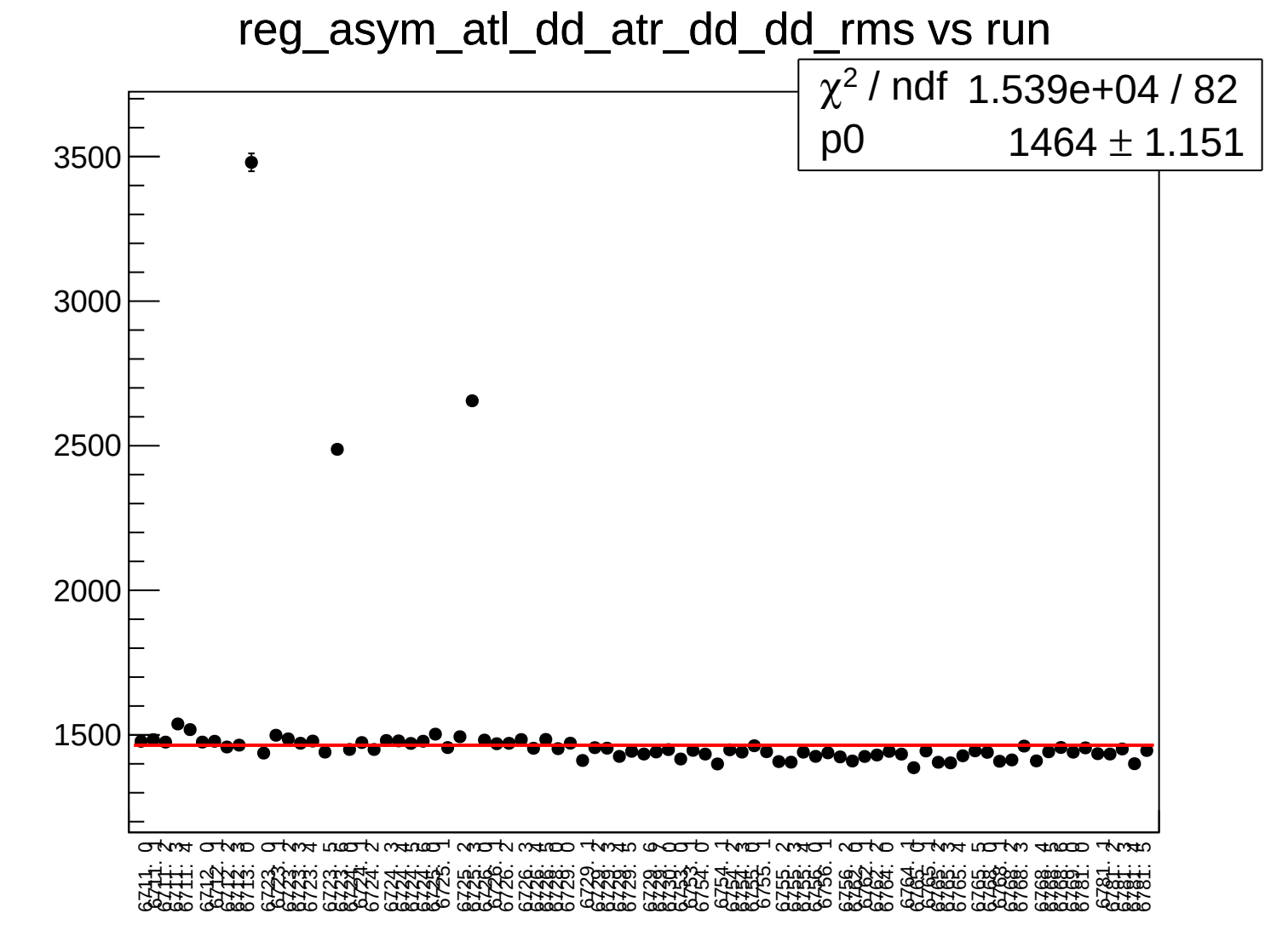

pull1D
Entries 83
Mean −0.008568
Std Dev 0.9836
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

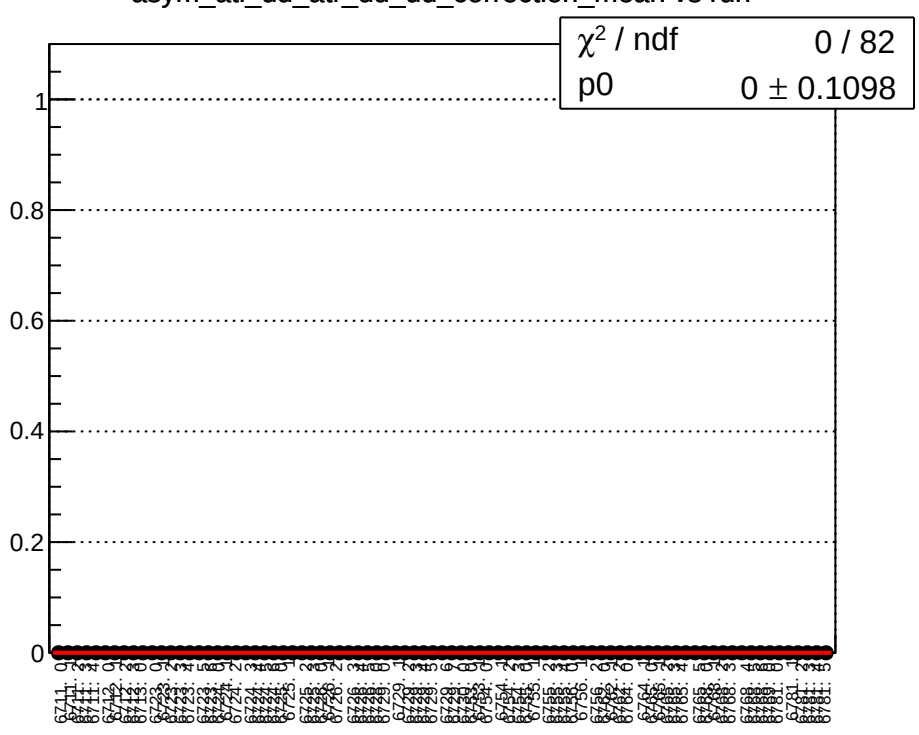
asym_atl_dd_atr_dd_avg_rms vs run

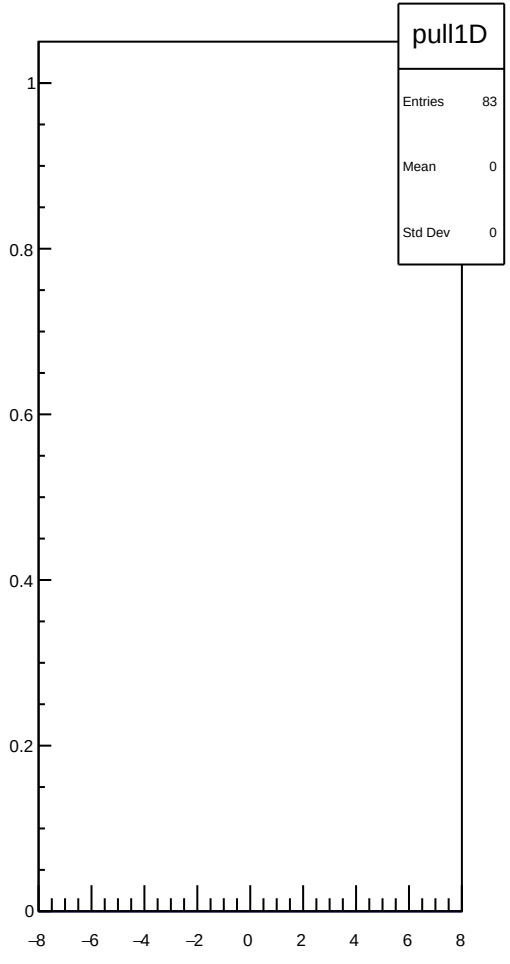


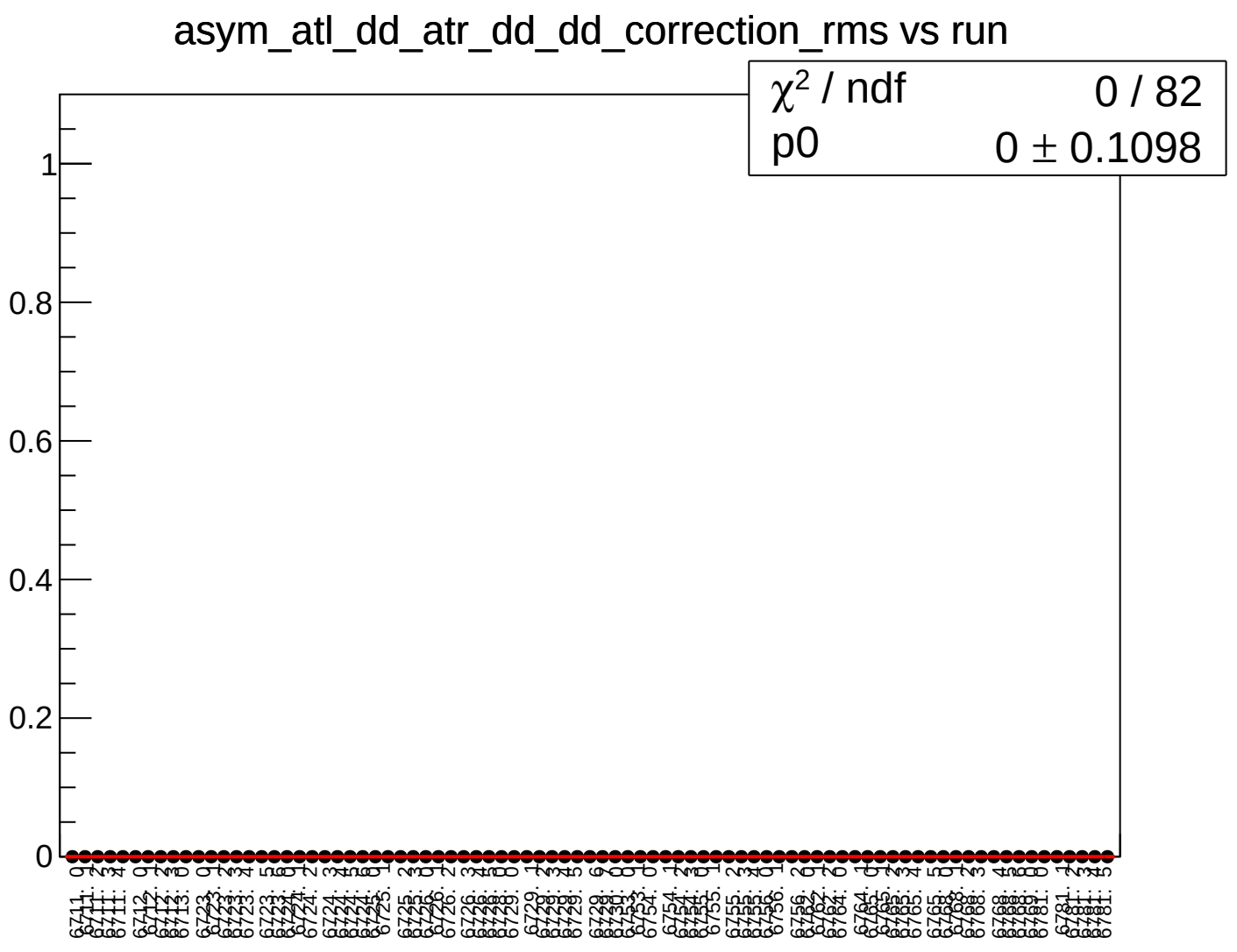

reg_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 91.97 / 82
p0 2533 ± 1628
pull
Entries 83
Mean −247.9
Std Dev 268.2

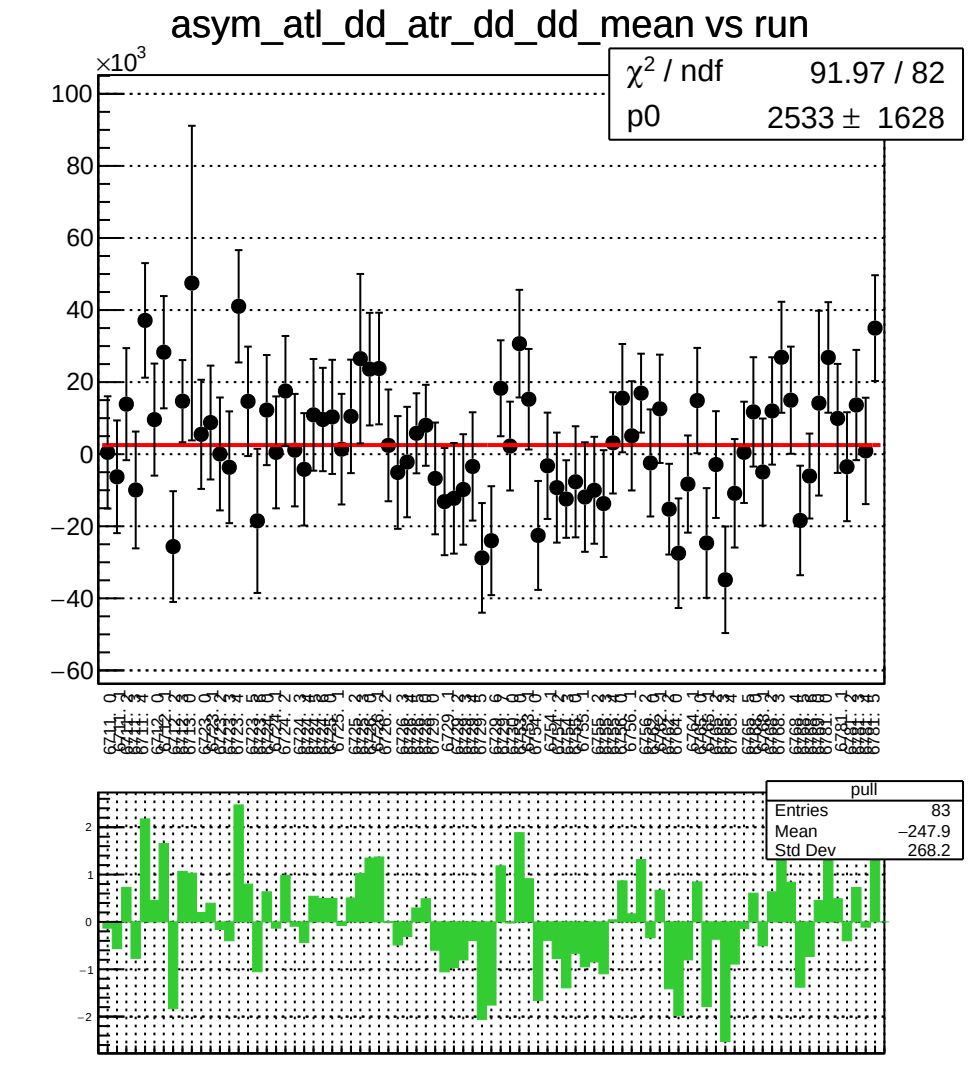

pull1D
Entries 83
Mean 0.01166
Std Dev 1.053

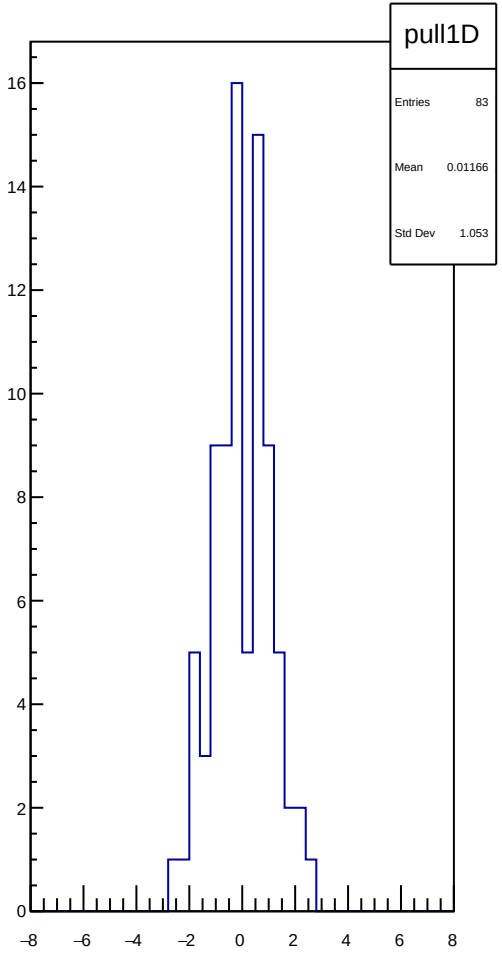

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.539e+04 / 82
p0 1464 ± 1.151
3500
3000
2500
2000
1500

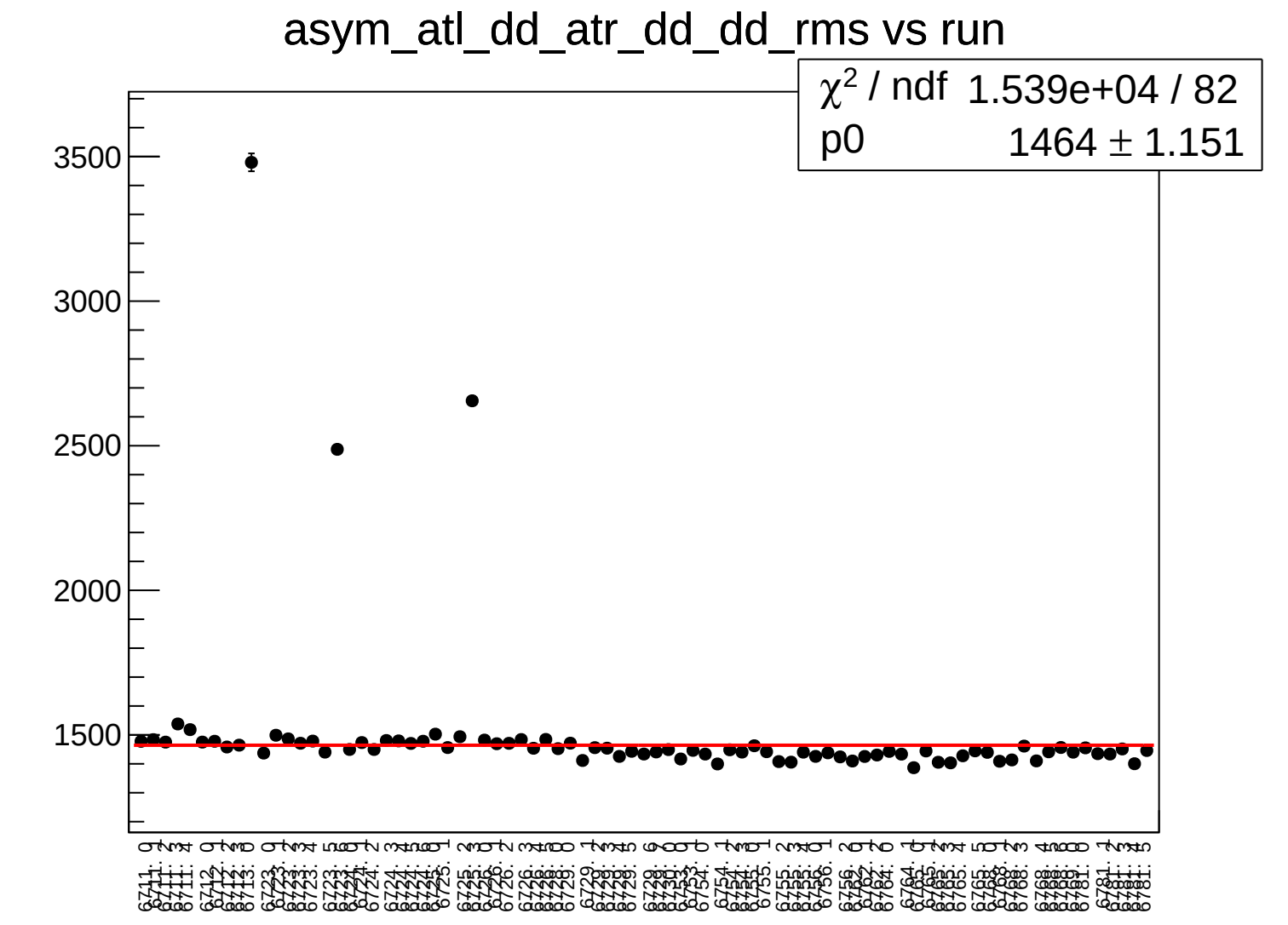

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 82
p0 0 ± 0.1098
1
0.8
0.6
0.4
0.2
0

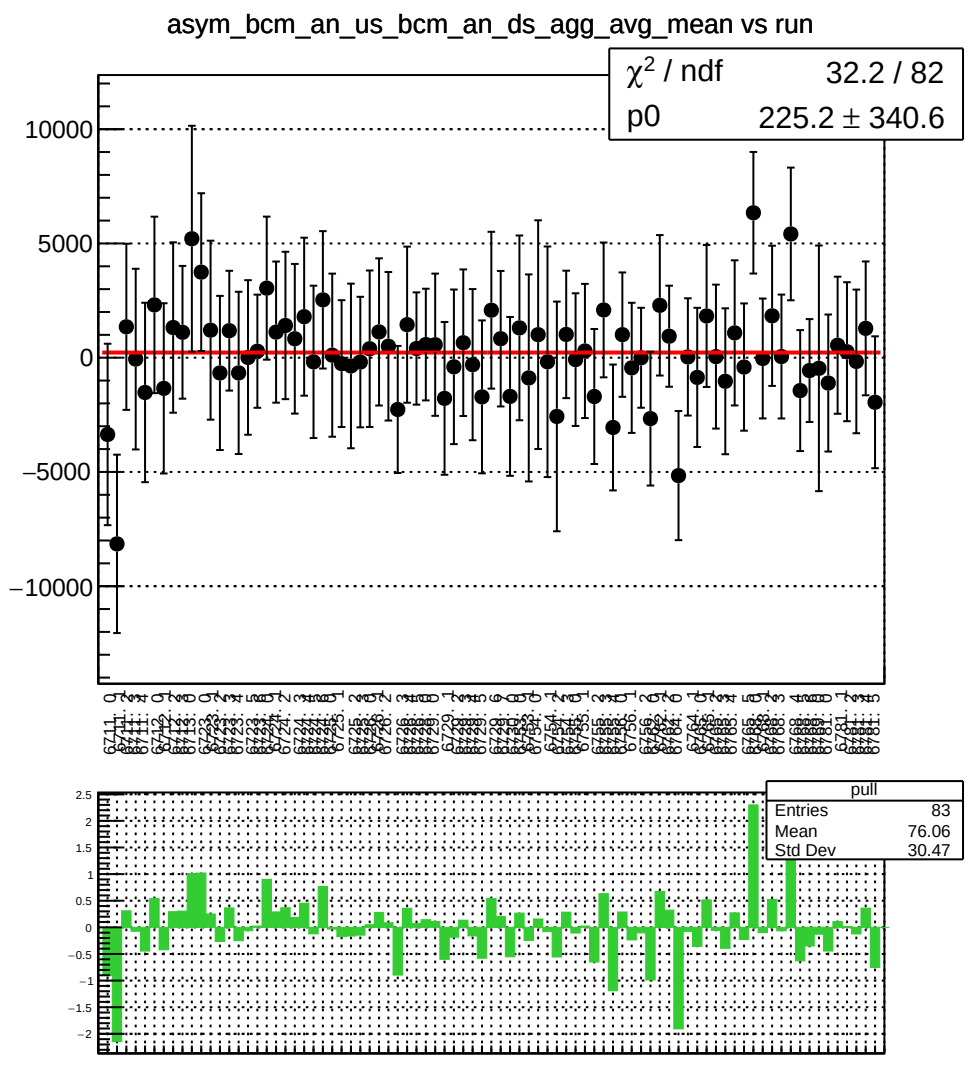

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

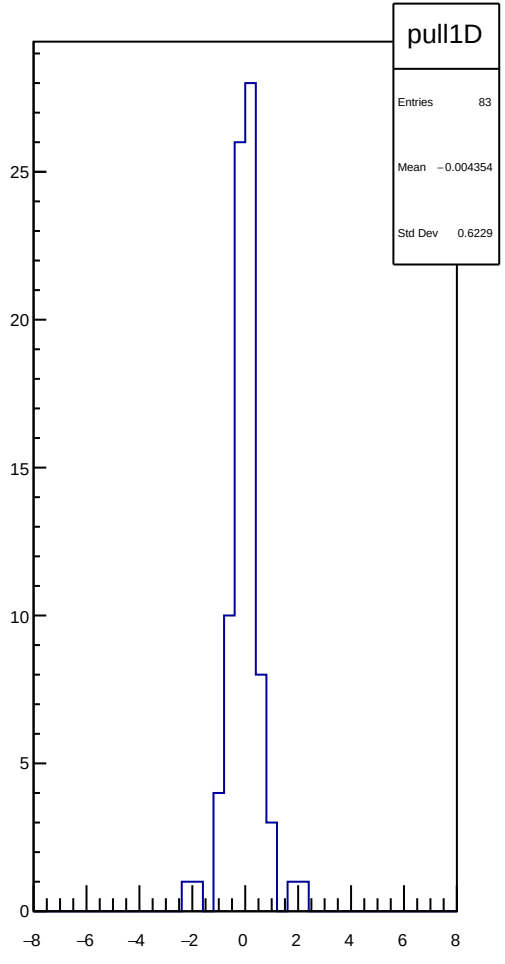

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 82
p0 0 ± 0.1098
1
0.8
0.6
0.4
0.2
0

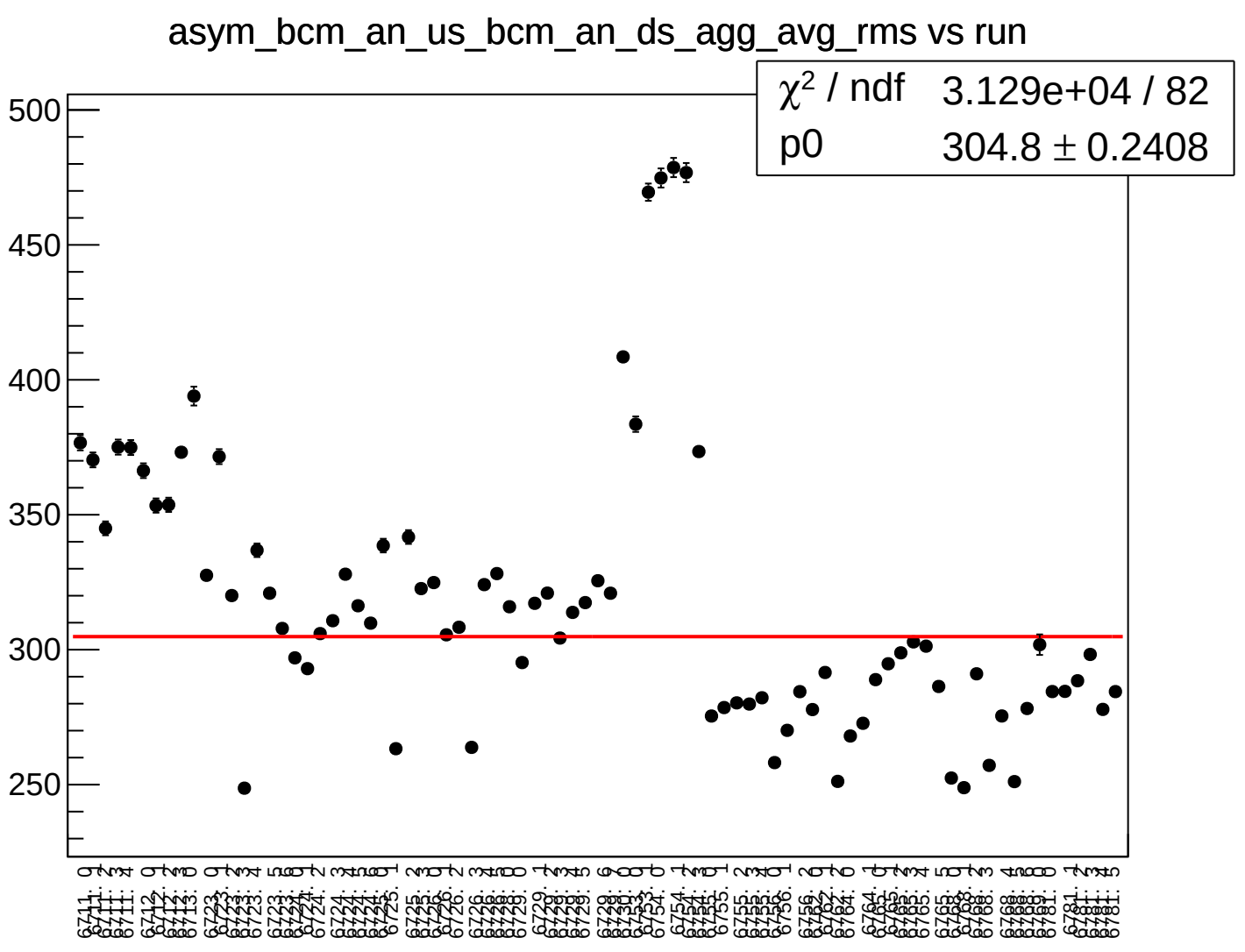

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 91.97 / 82
p0 2533 ± 1628
pull
Entries 83
Mean −247.9
Std Dev 268.2

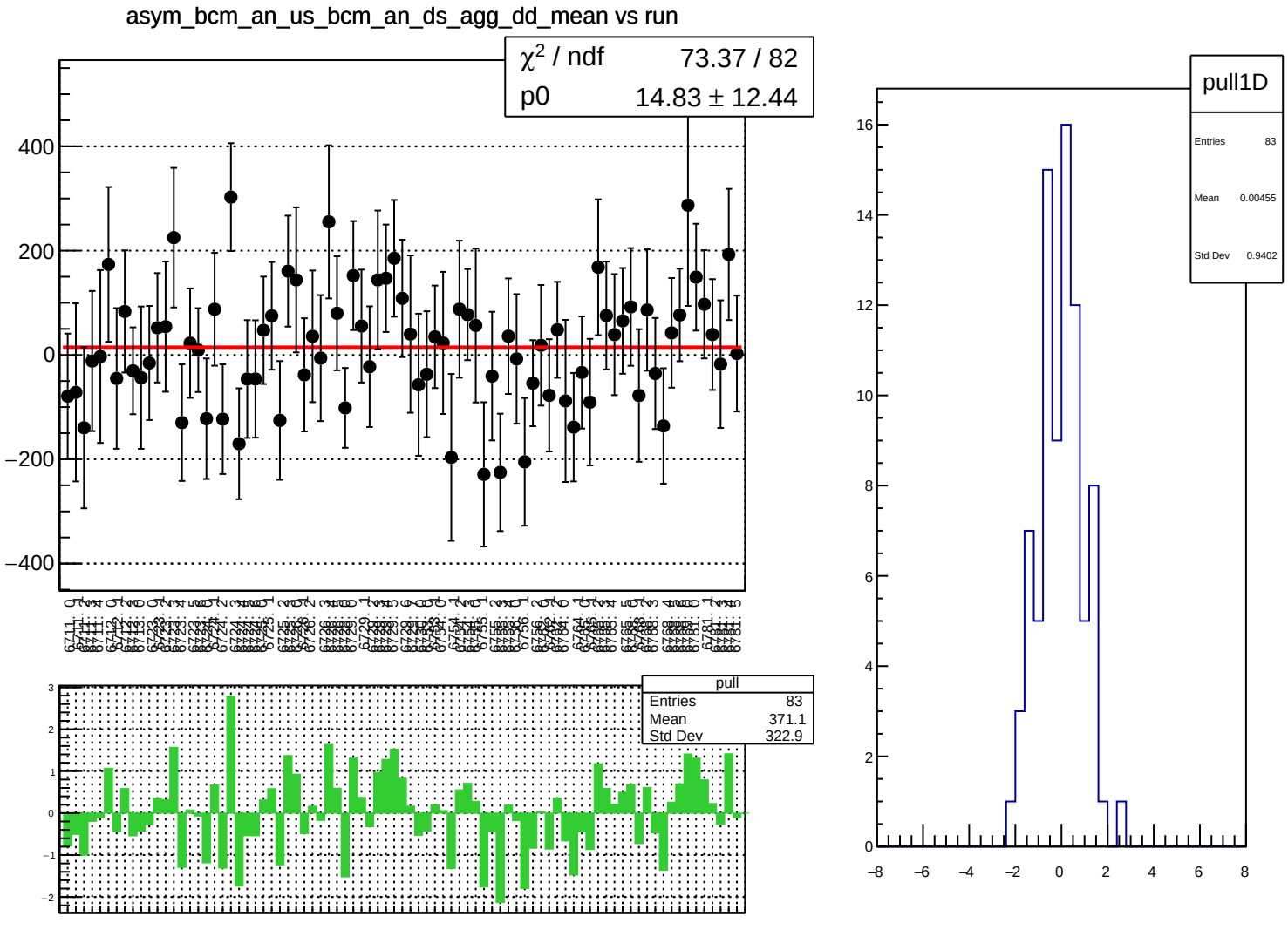

pull1D
Entries 83
Mean 0.01166
Std Dev 1.053

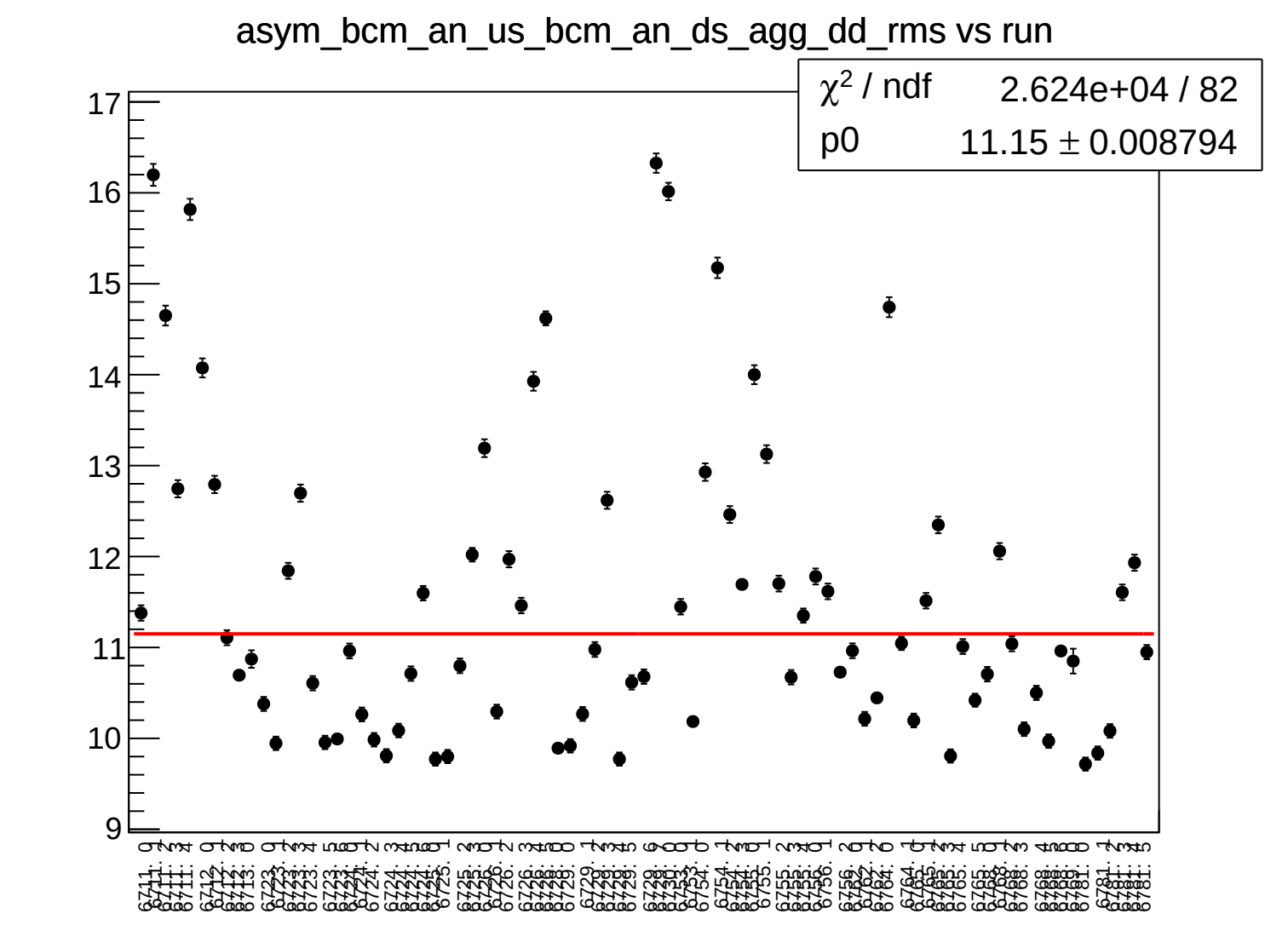

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.539e+04 / 82
p0 1464 ± 1.151
3500
3000
2500
2000
1500

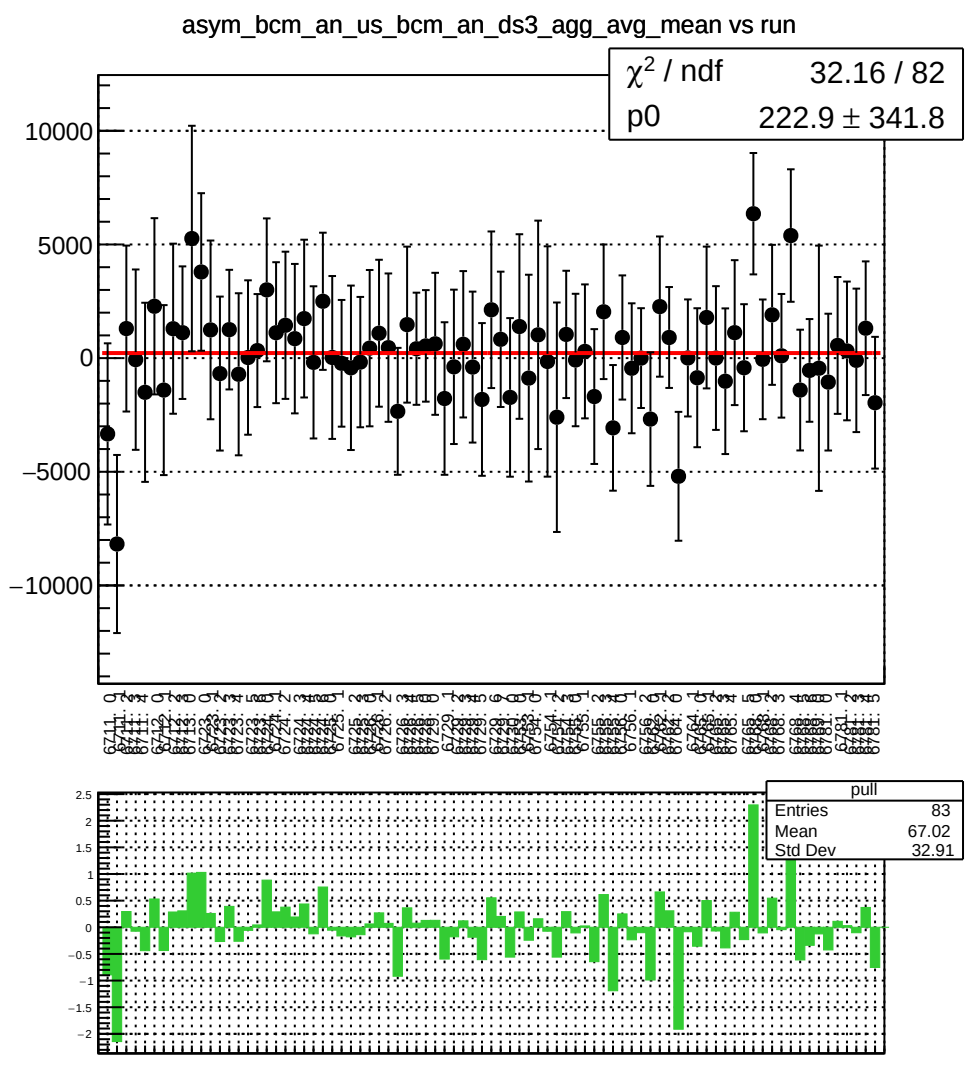

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 32.2 / 82
p0 225.2 ± 340.6
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 76.06
Std Dev 30.47
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

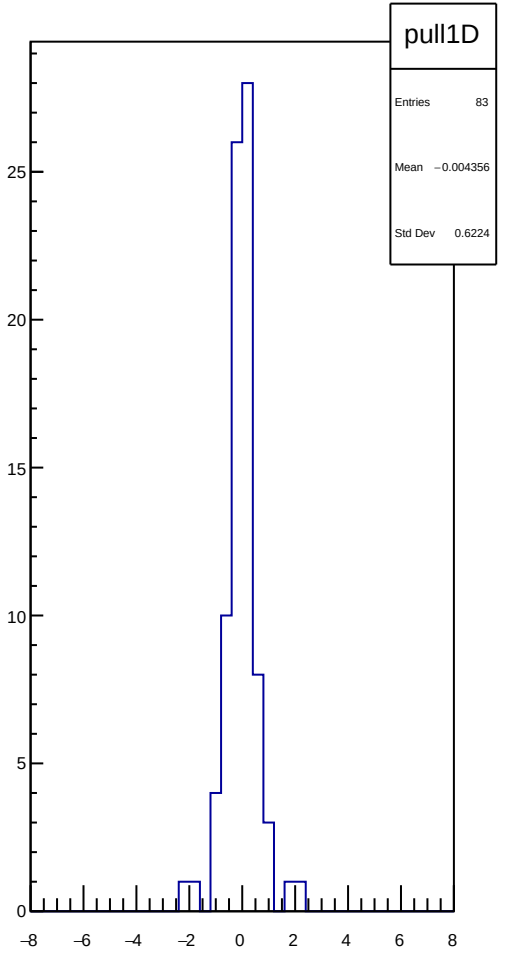

pull1D
Entries 83
Mean −0.004354
Std Dev 0.6229
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

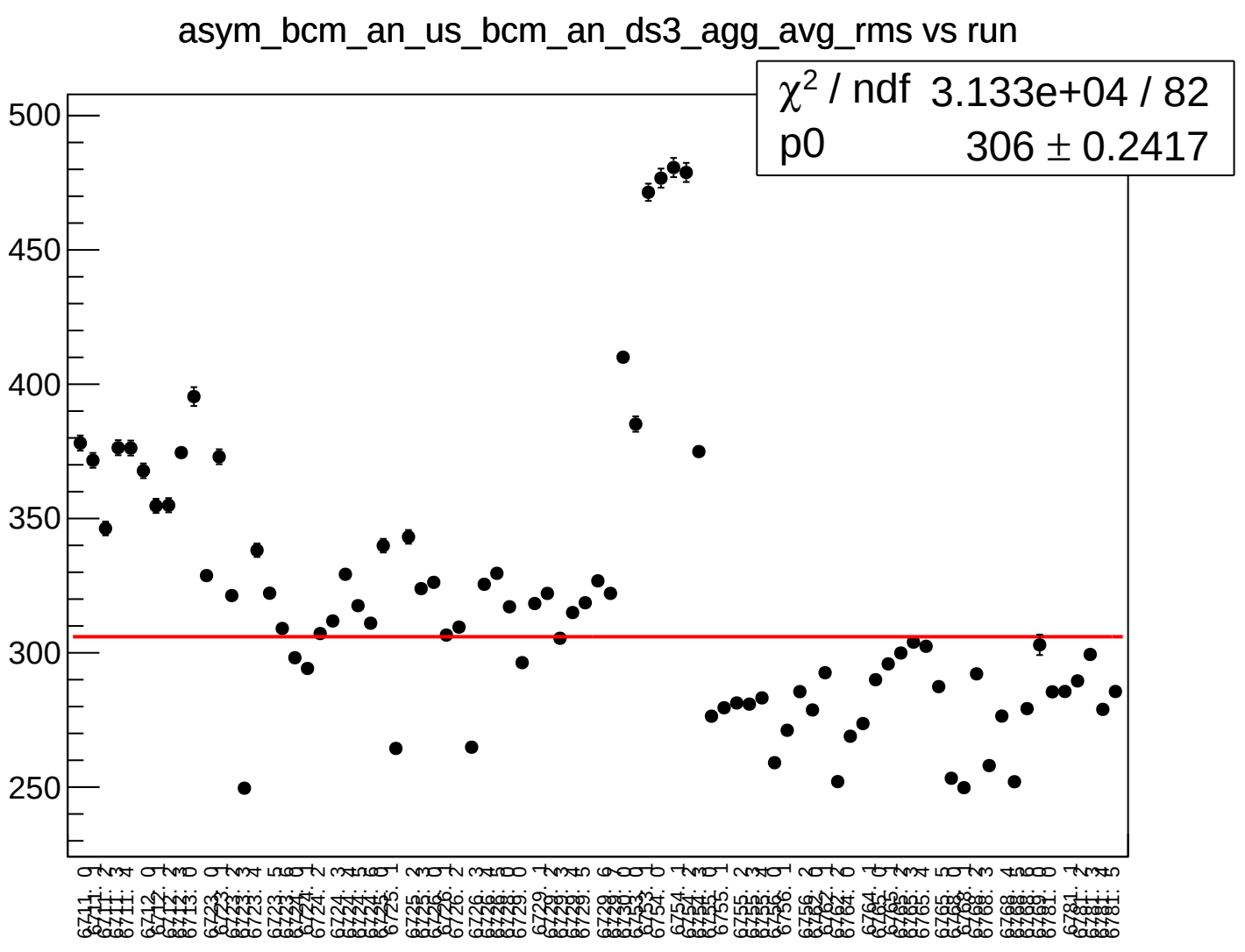

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.129e+04 / 82
p0 304.8 ± 0.2408
500
450
400
350
300
250

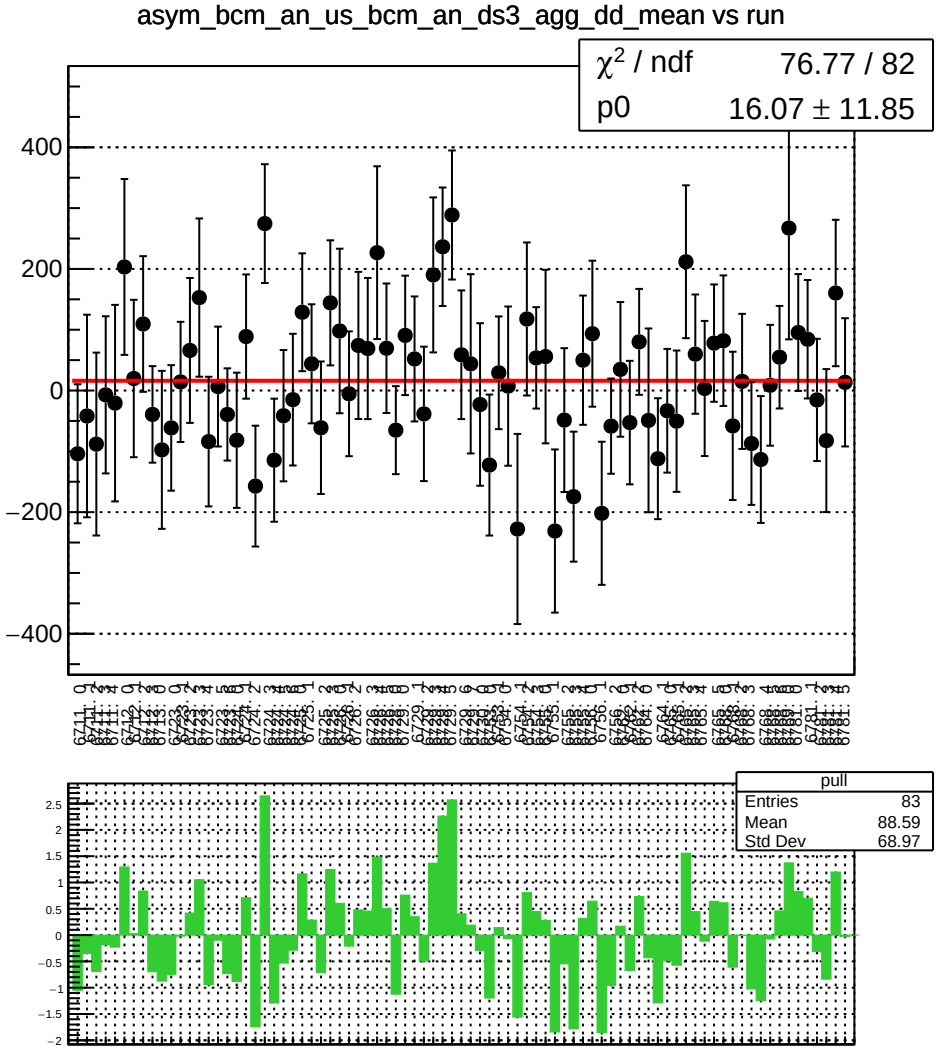

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 73.37 / 82
p0 14.83 ± 12.44
400
200
0
−200
−400
pull
Entries 83
Mean 371.1
Std Dev 322.9
pull1D
Entries 83
Mean 0.00455
Std Dev 0.9402
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

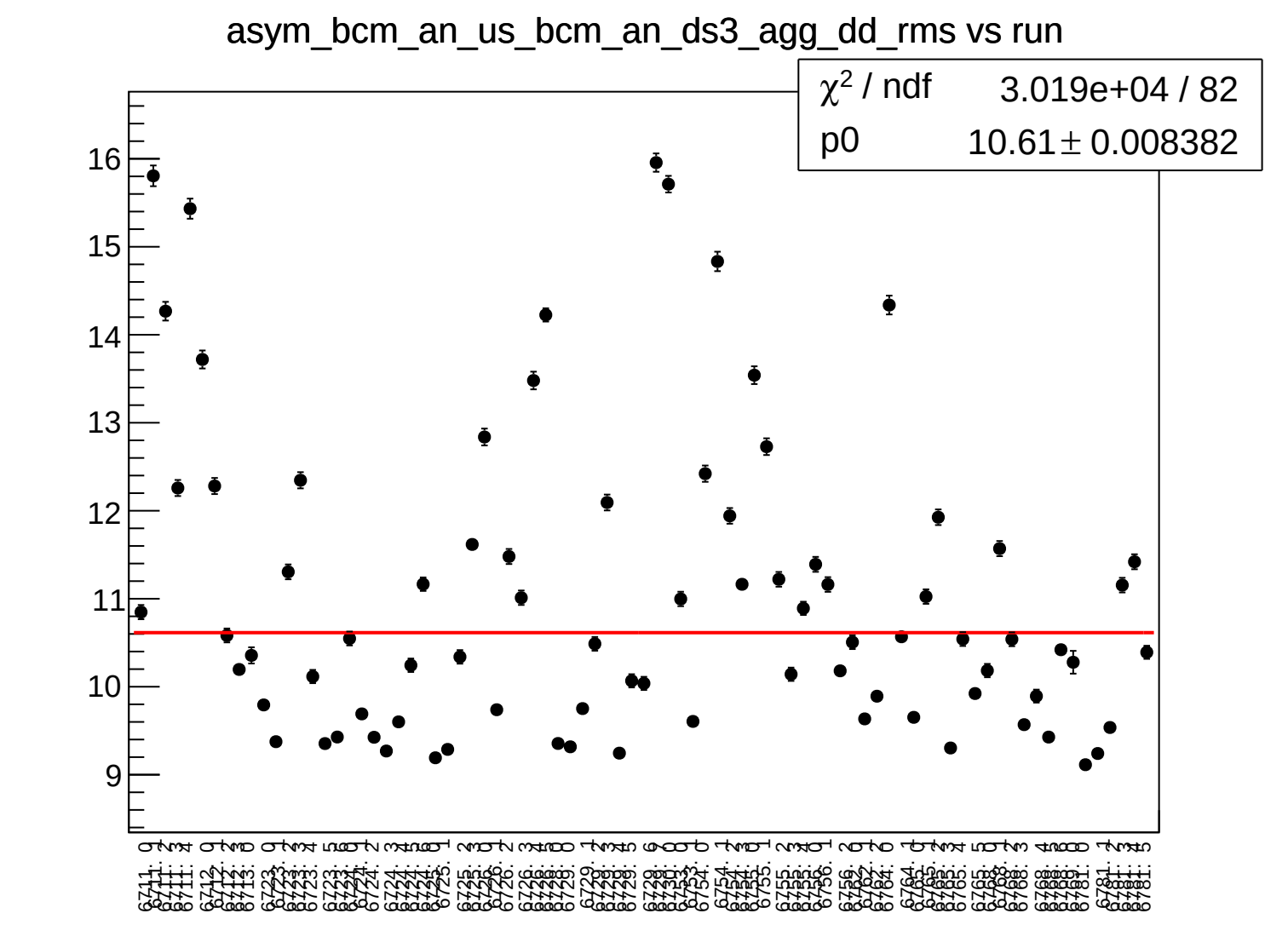

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.624e+04 / 82
p0 11.15 ± 0.008794
17
16
15
14
13
12
11
10
9

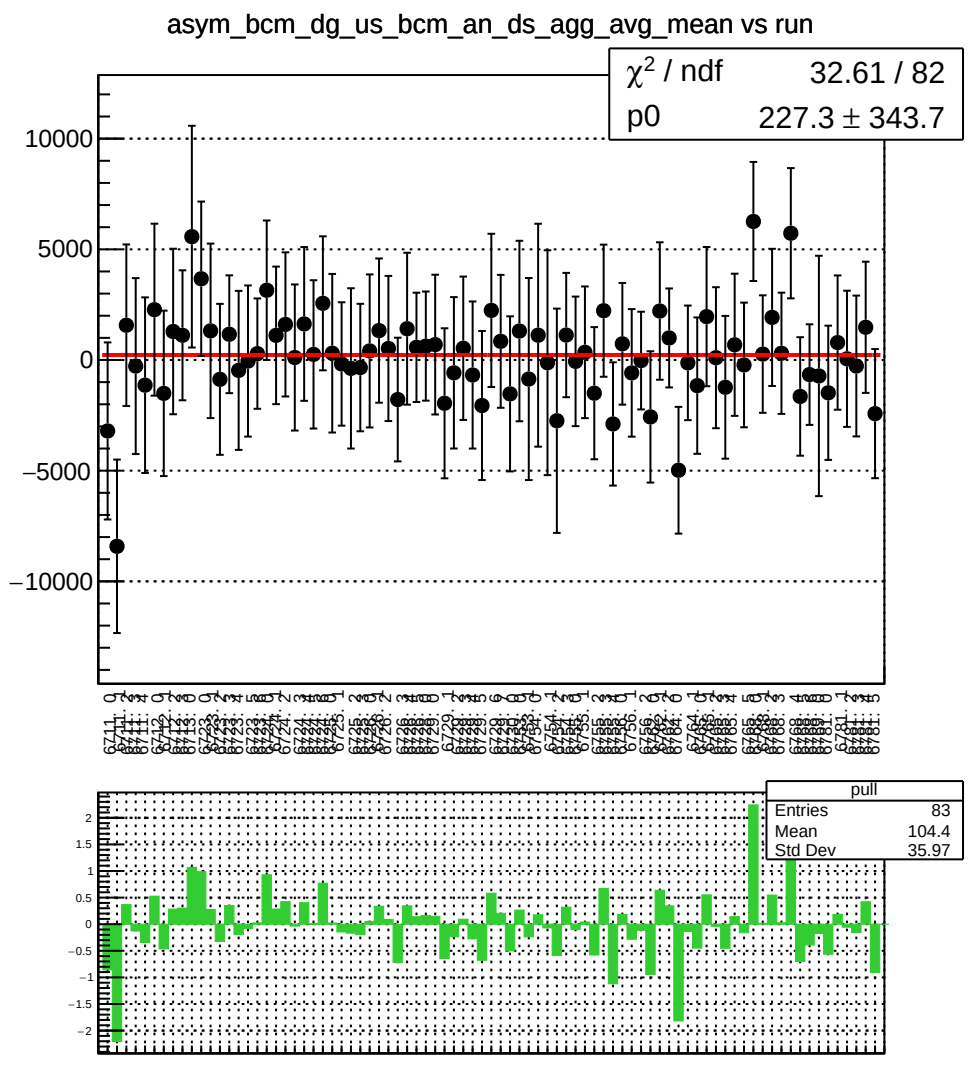

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 32.16 / 82
p0 222.9 ± 341.8
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 67.02
Std Dev 32.91
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

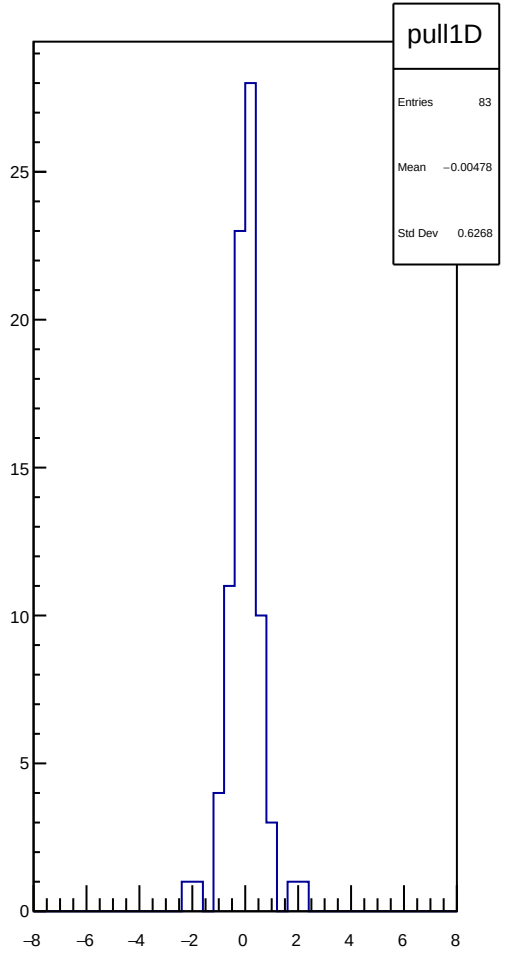

pull1D
Entries 83
Mean −0.004356
Std Dev 0.6224
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

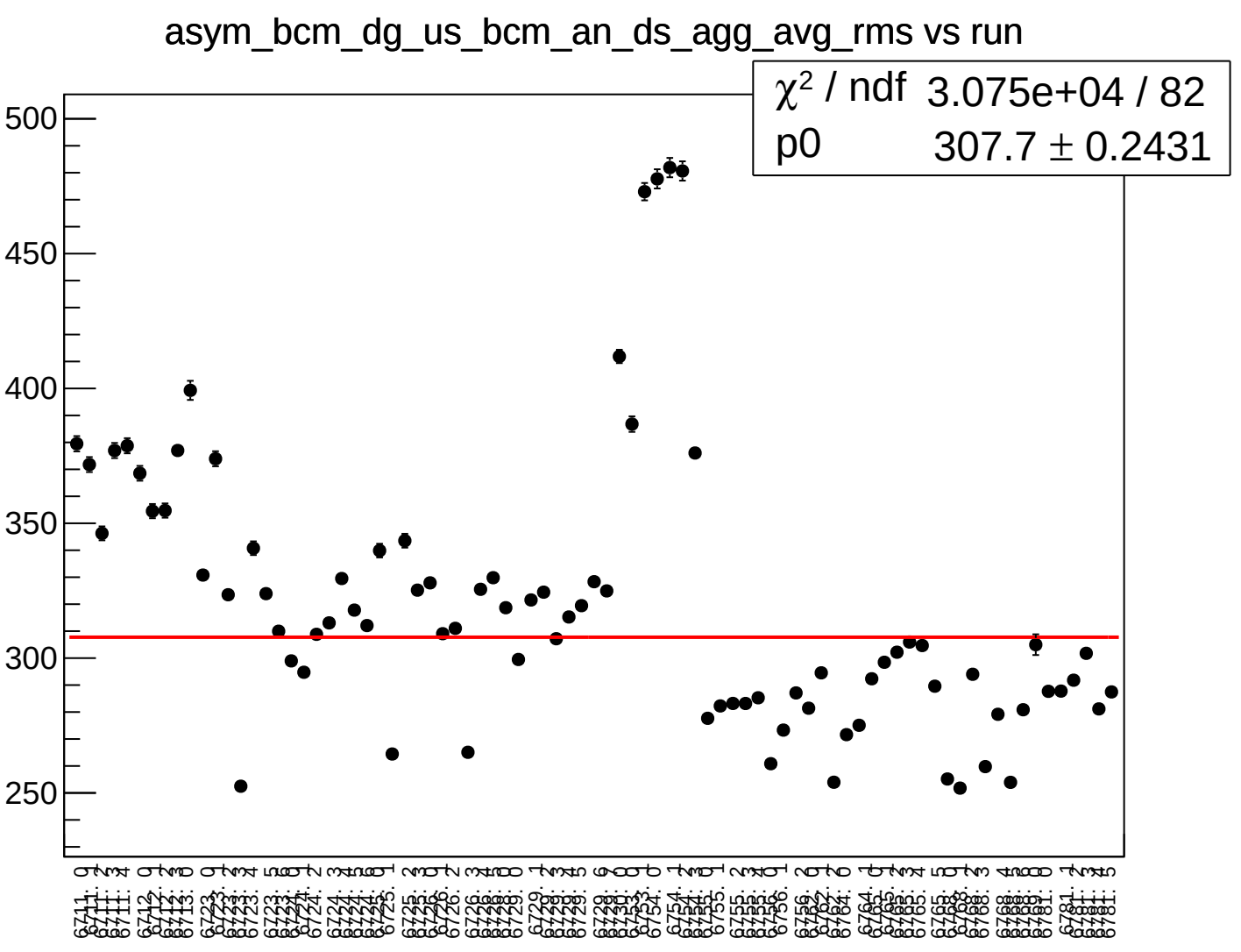

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3.133e+04 / 82
p0 306 ± 0.2417
500
450
400
350
300
250

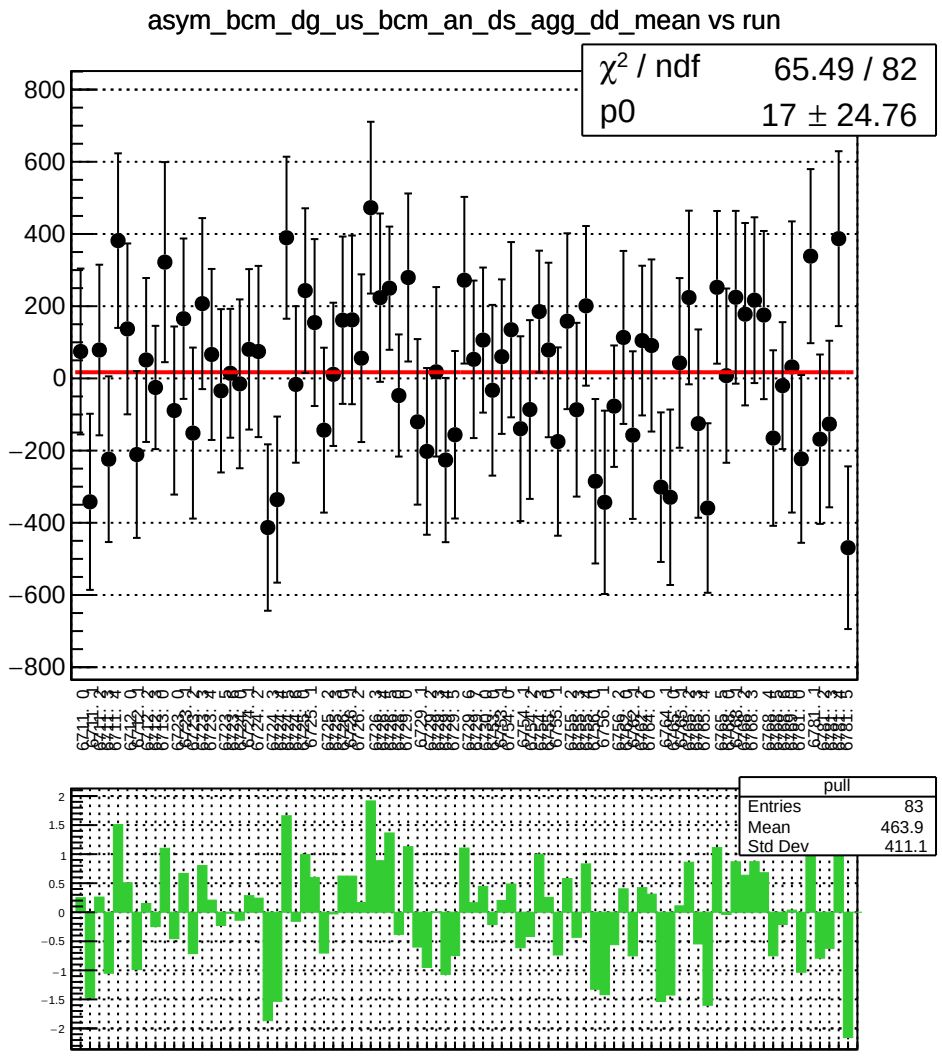

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 76.77 / 82
p0 16.07 ± 11.85
400
200
0
−200
−400
pull
Entries 83
Mean 88.59
Std Dev 68.97
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 83
Mean 0.009689
Std Dev 0.9617
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

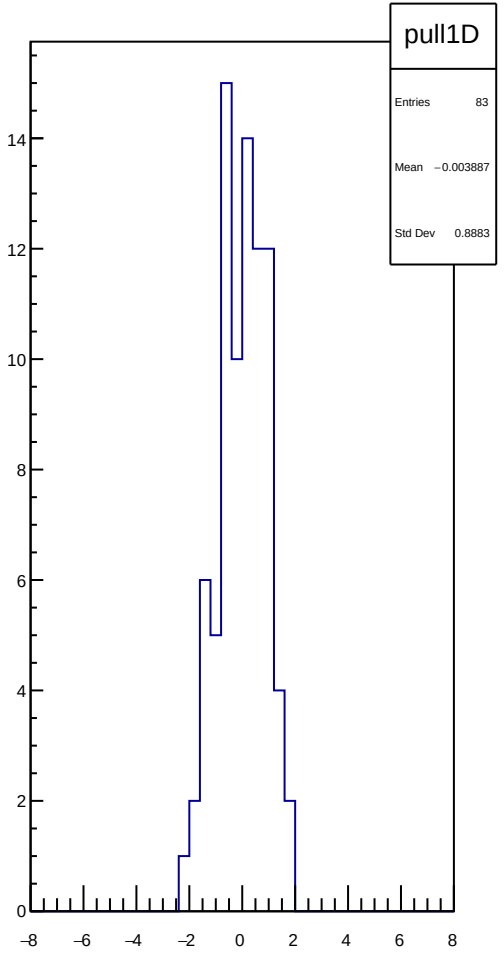

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 3.019e+04 / 82
p0 10.61 ± 0.008382
16
15
14
13
12
11
10
9

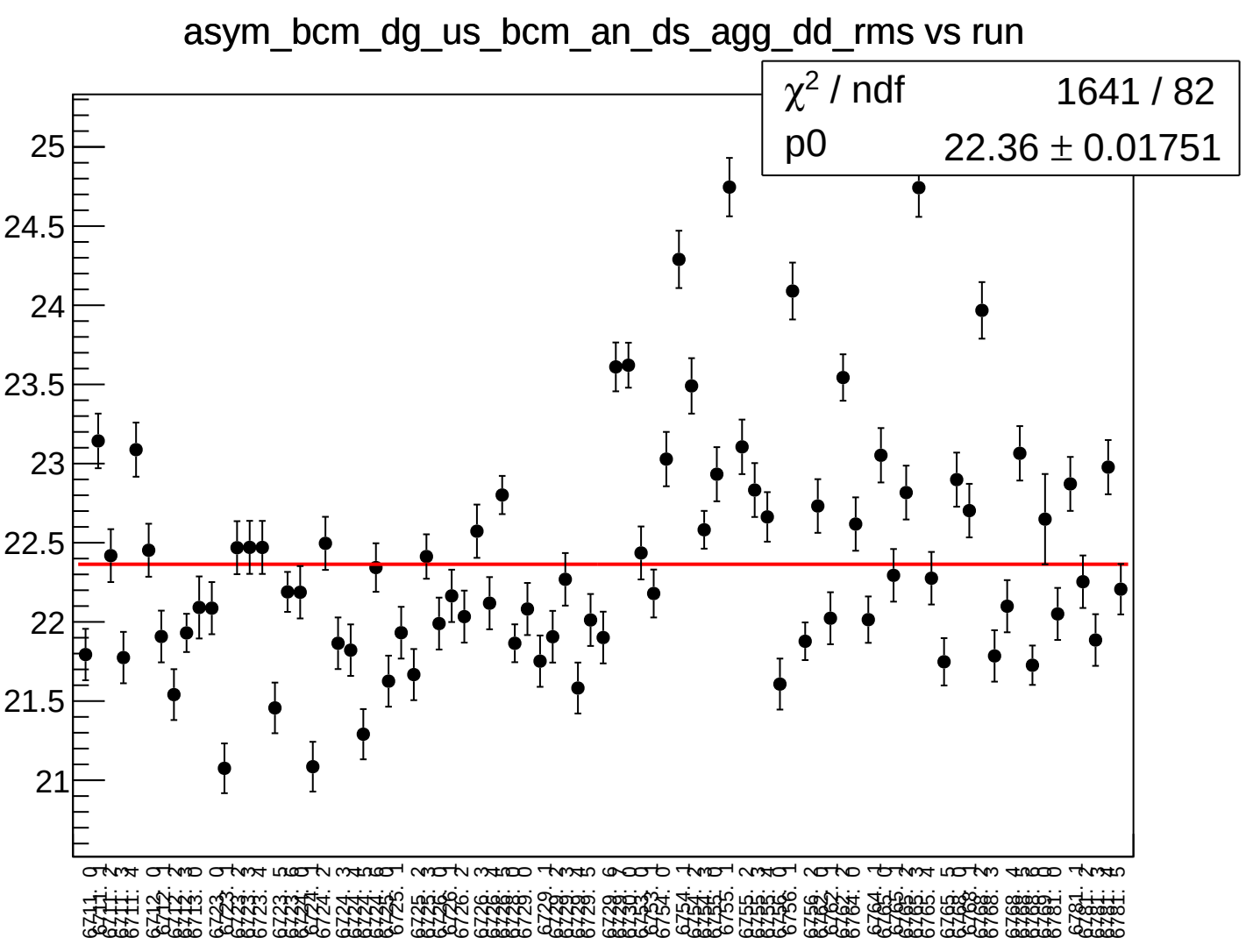

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 32.61 / 82
p0 227.3 ± 343.7
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 104.4
Std Dev 35.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

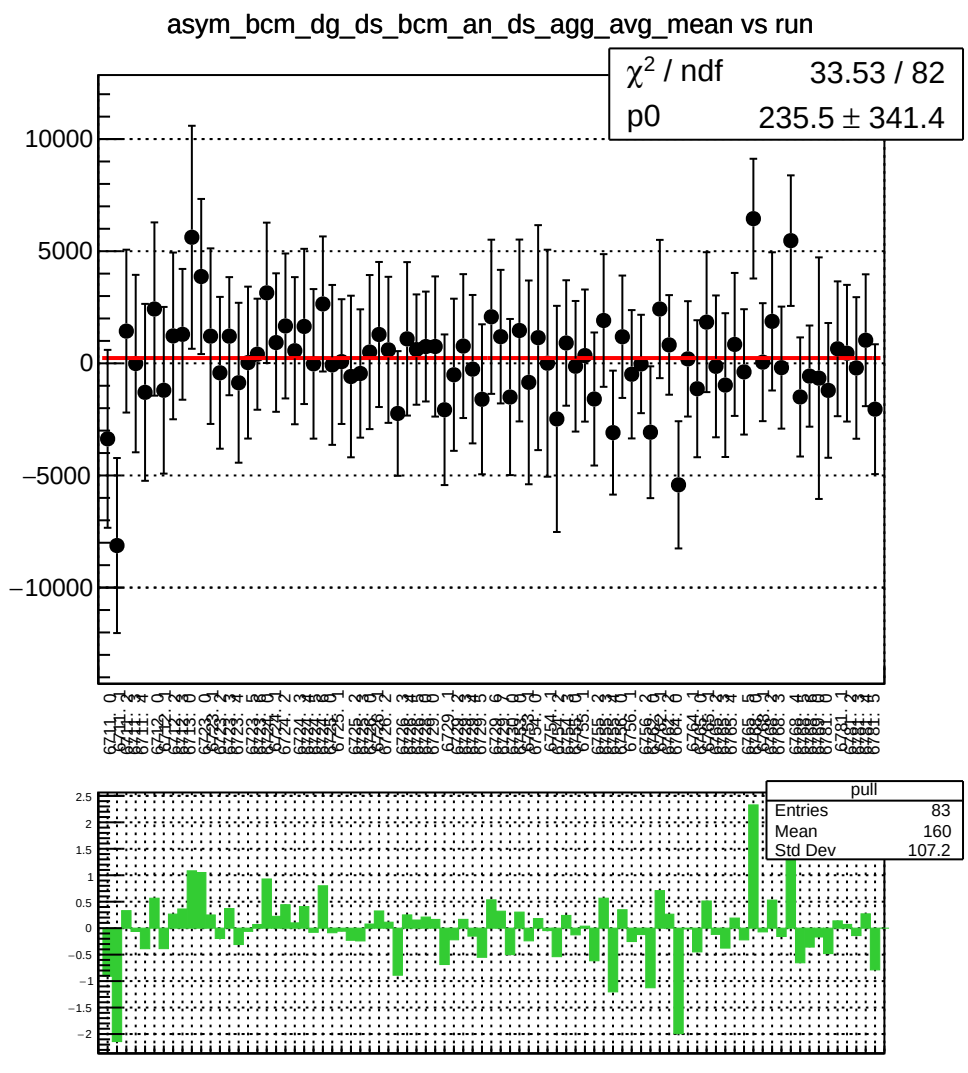

pull1D
Entries 83
Mean −0.00478
Std Dev 0.6268
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

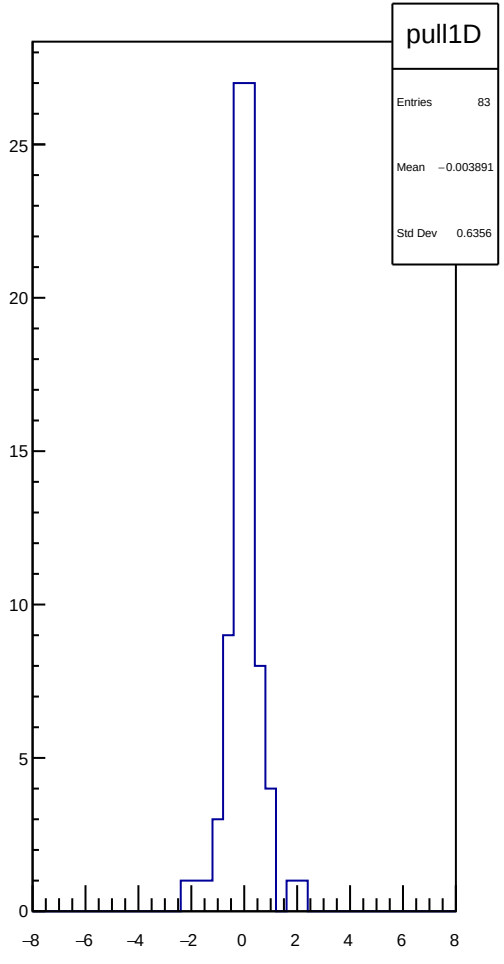

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.075e+04 / 82
p0 307.7 ± 0.2431
500
450
400
350
300
250

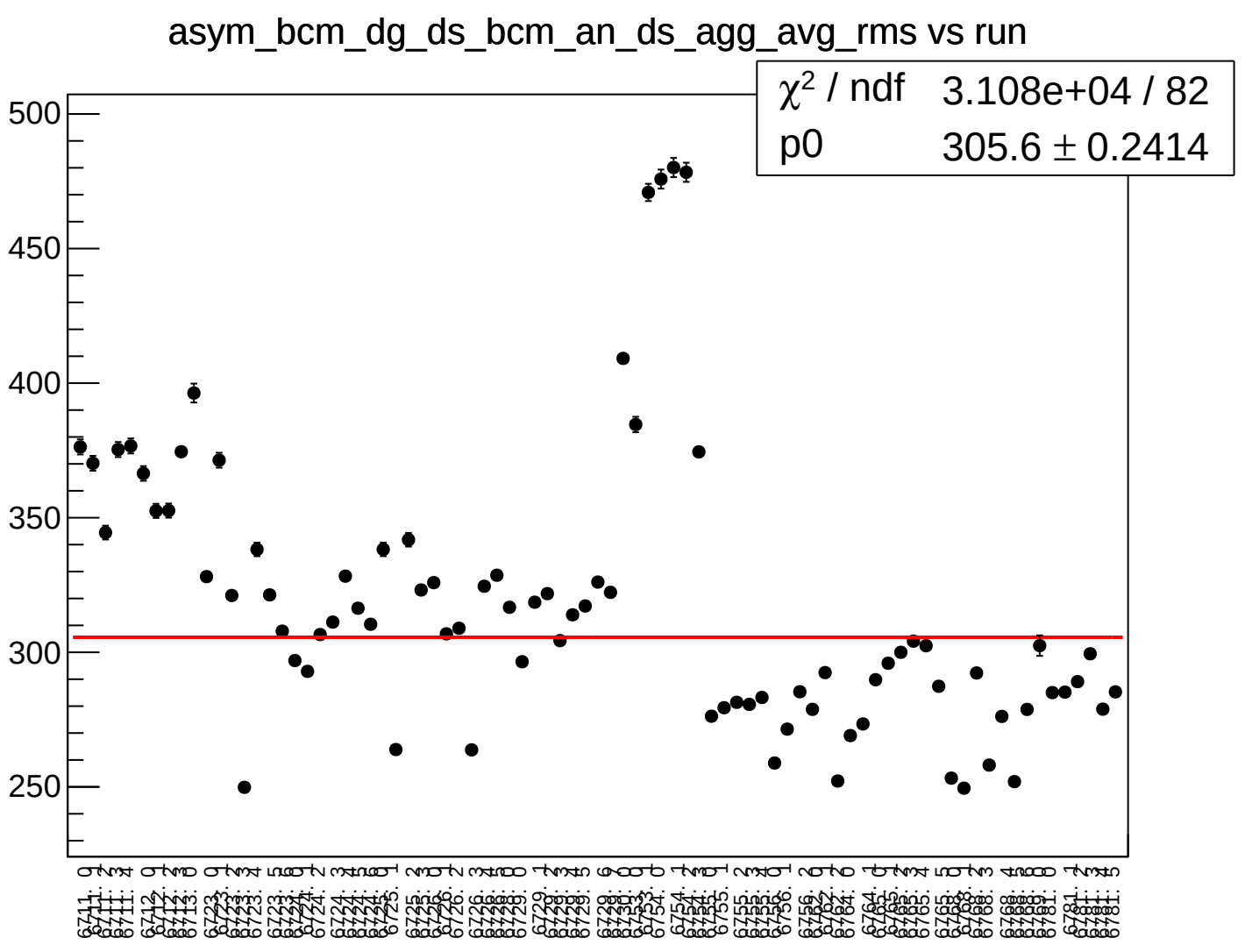

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 65.49 / 82
p0 17 ± 24.76
pull
Entries 83
Mean 463.9
Std Dev 411.1

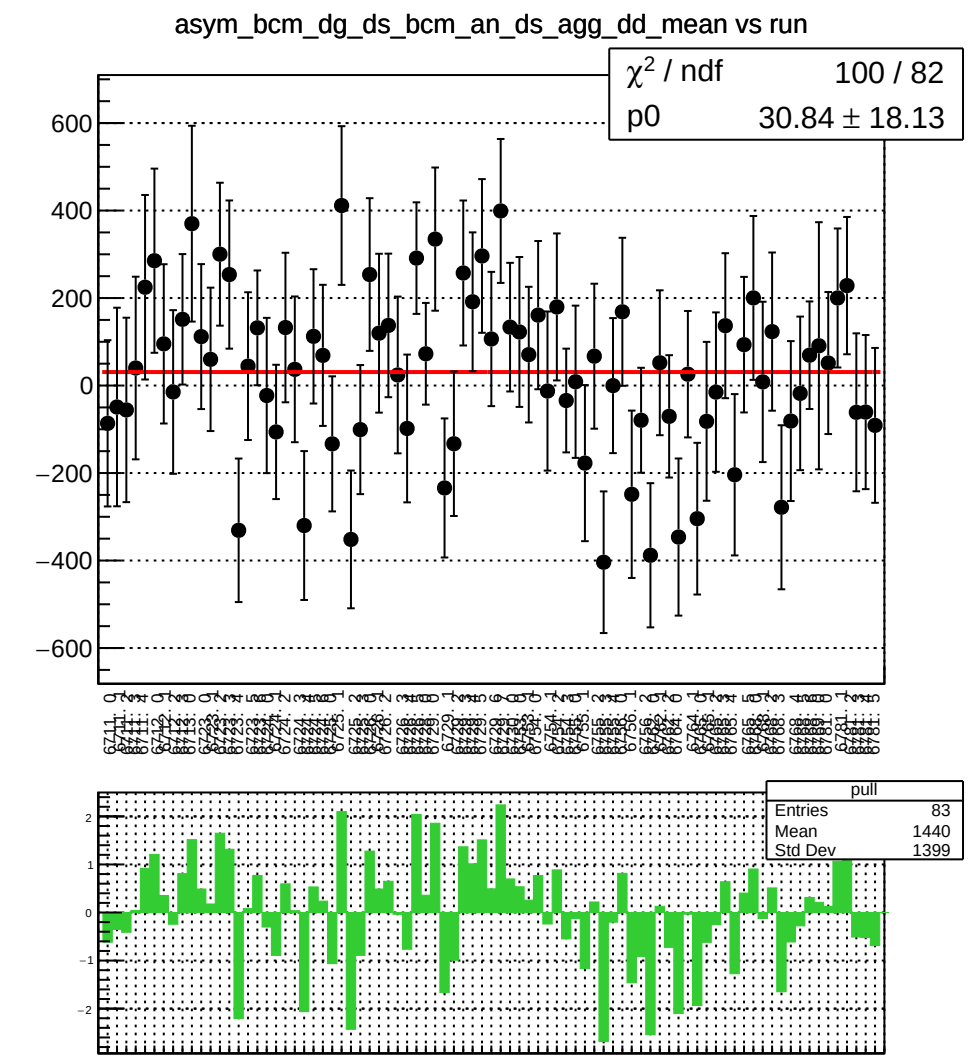

pull1D
Entries 83
Mean −0.003887
Std Dev 0.8883

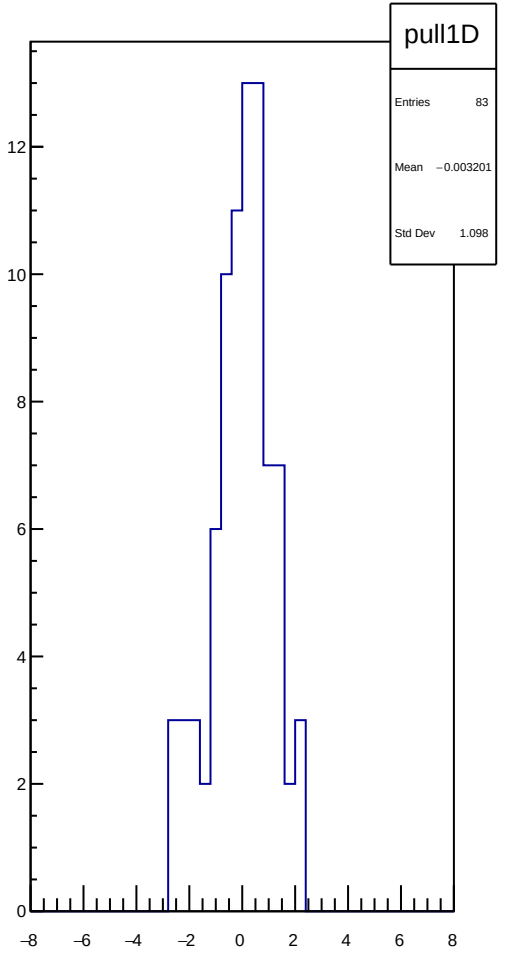

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1641 / 82
p0 22.36 ± 0.01751
25
24.5
24
23.5
23
22.5
22
21.5
21

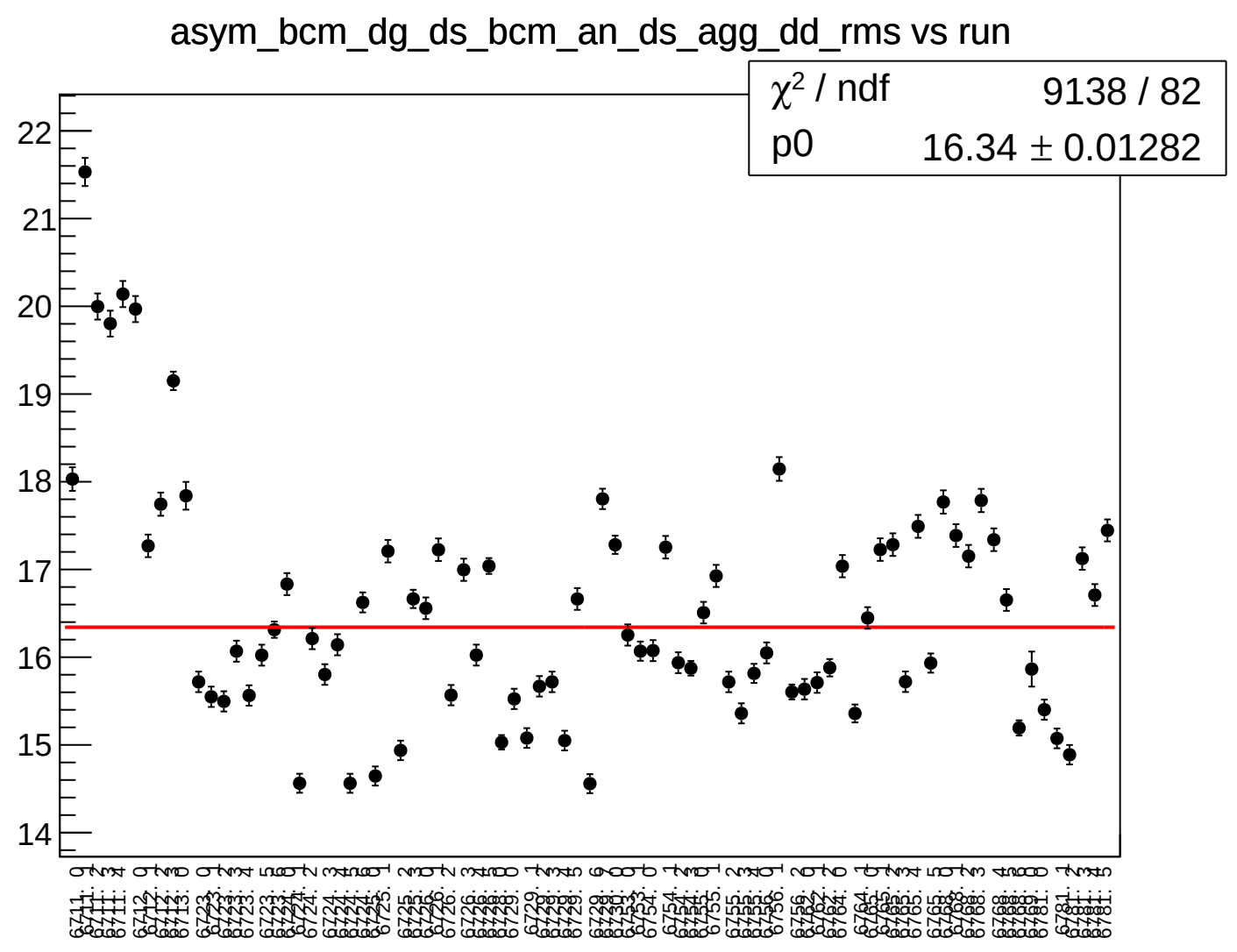

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 33.53 / 82
p0 235.5 ± 341.4
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 160
Std Dev 107.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

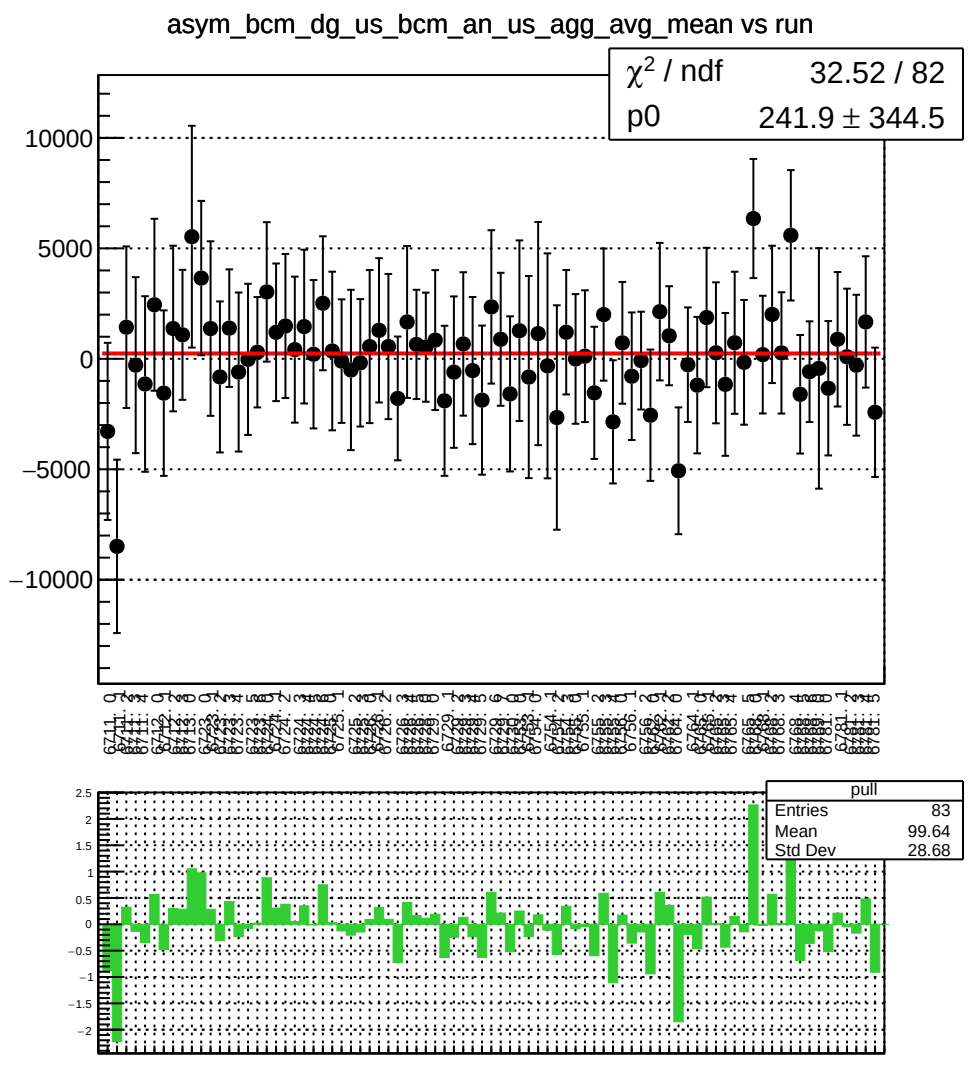

pull1D
Entries 83
Mean −0.003891
Std Dev 0.6356
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

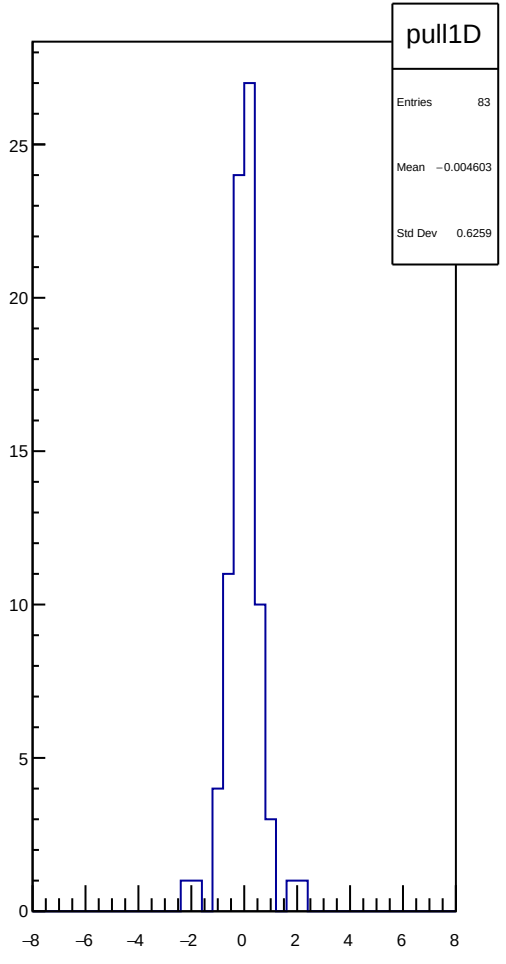

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.108e+04 / 82
p0 305.6 ± 0.2414
500
450
400
350
300
250

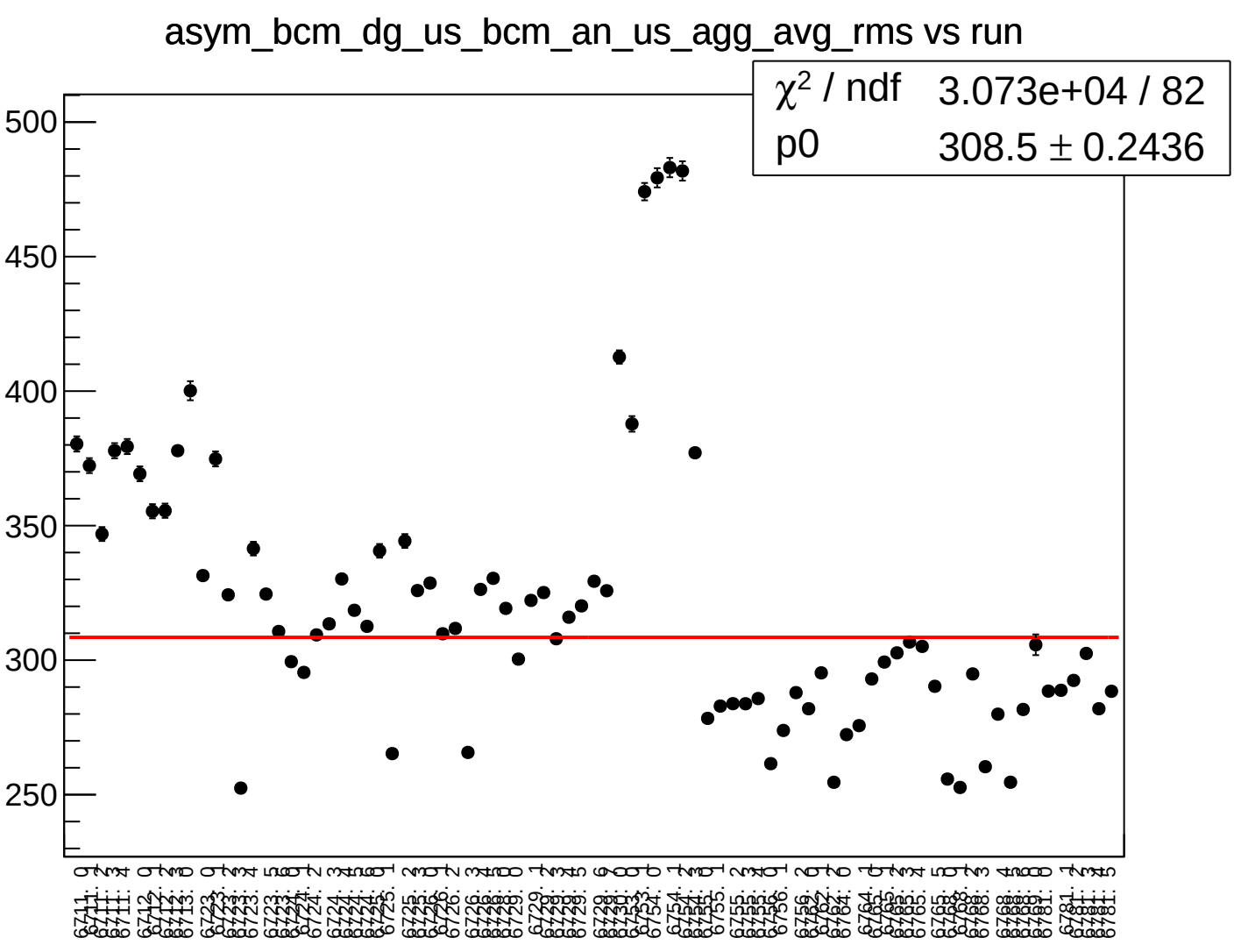

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 100 / 82
p0 30.84 ± 18.13
pull
Entries 83
Mean 1440
Std Dev 1399

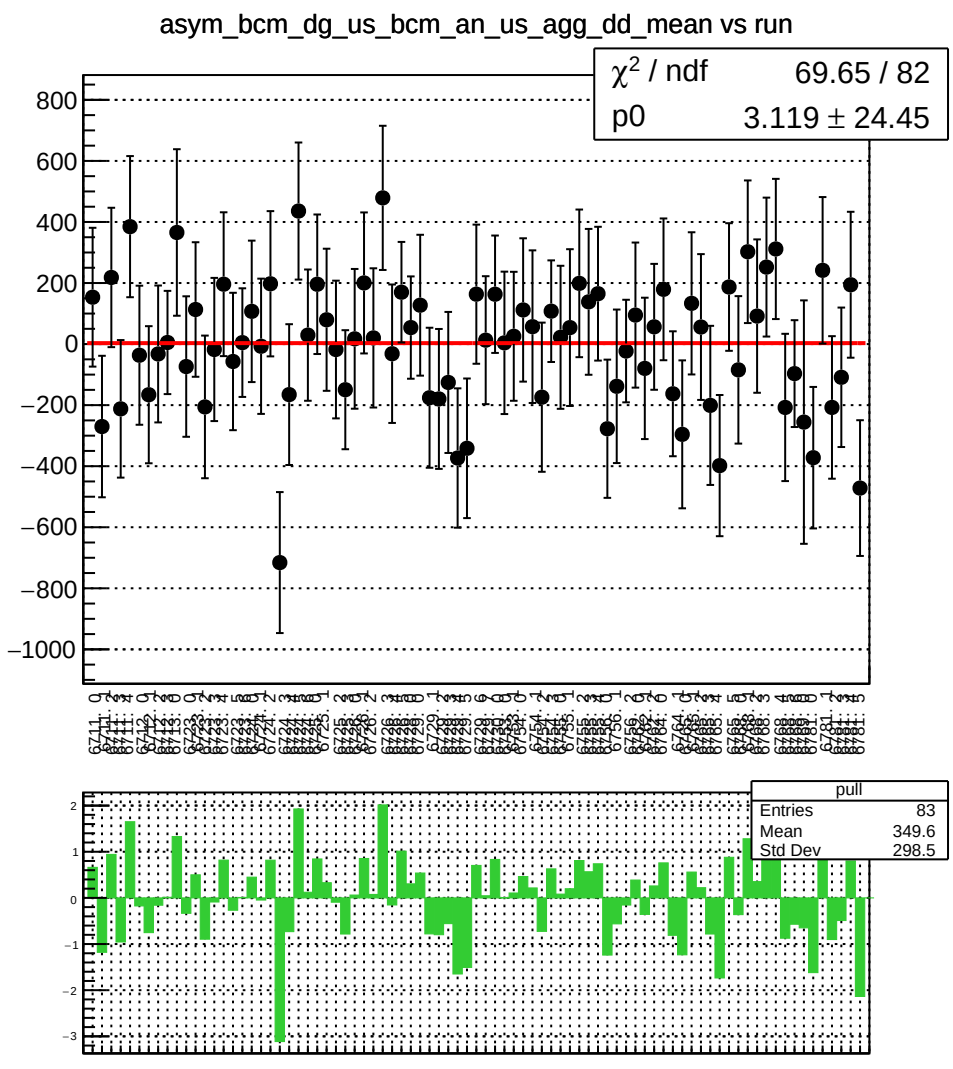

pull1D
Entries 83
Mean −0.003201
Std Dev 1.098

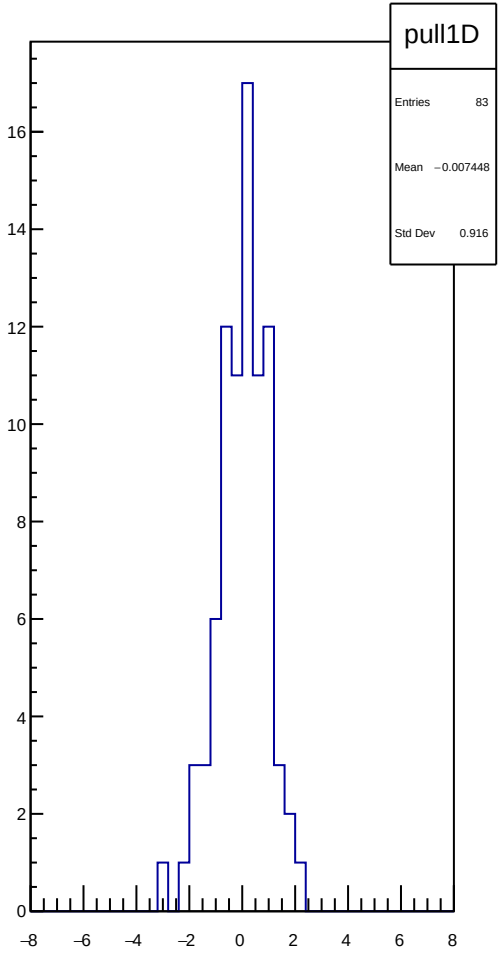

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 9138 / 82
p0 16.34 ± 0.01282
22
21
20
19
18
17
16
15
14

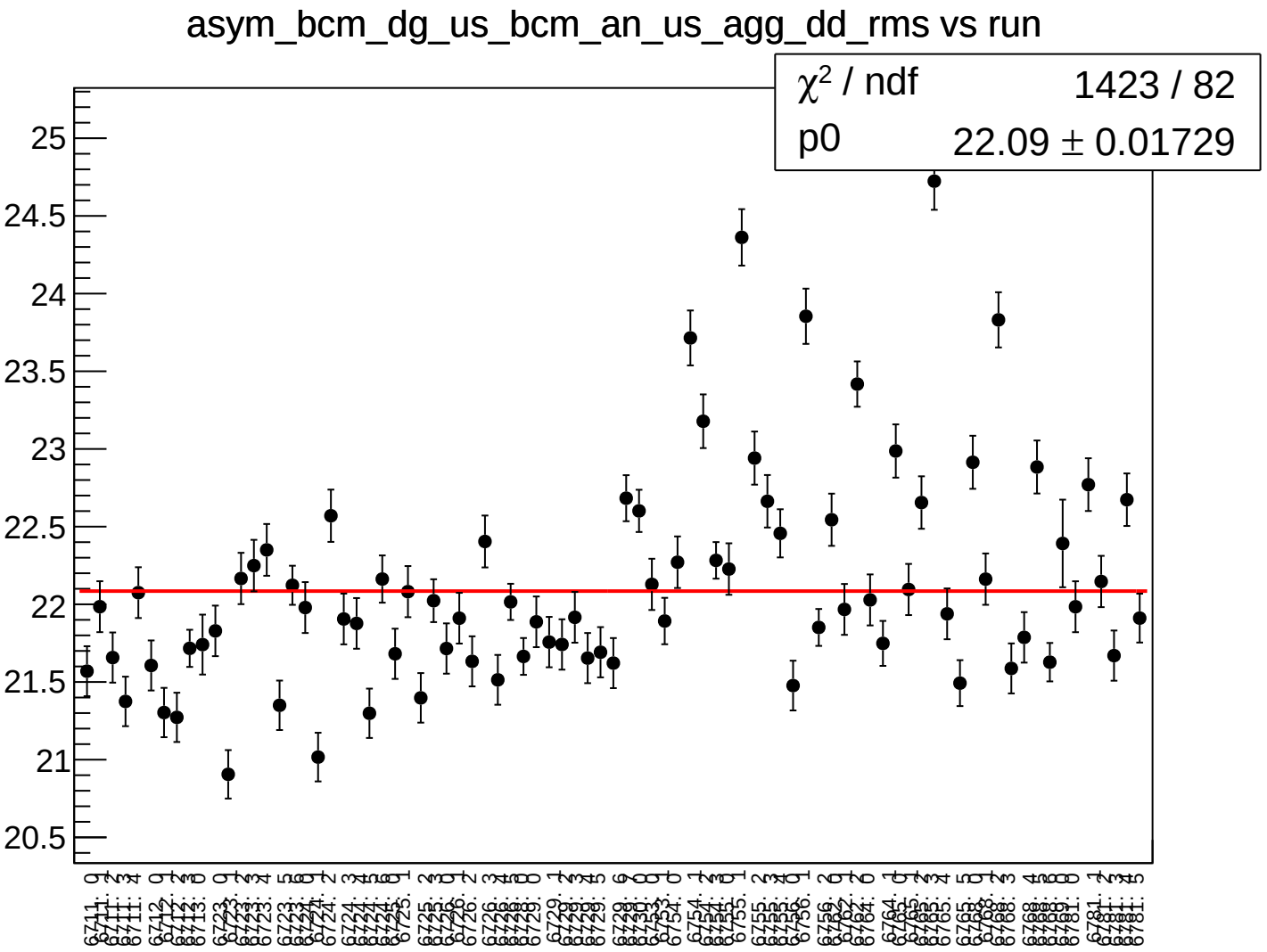

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 32.52 / 82
p0 241.9 ± 344.5
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 99.64
Std Dev 28.68
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

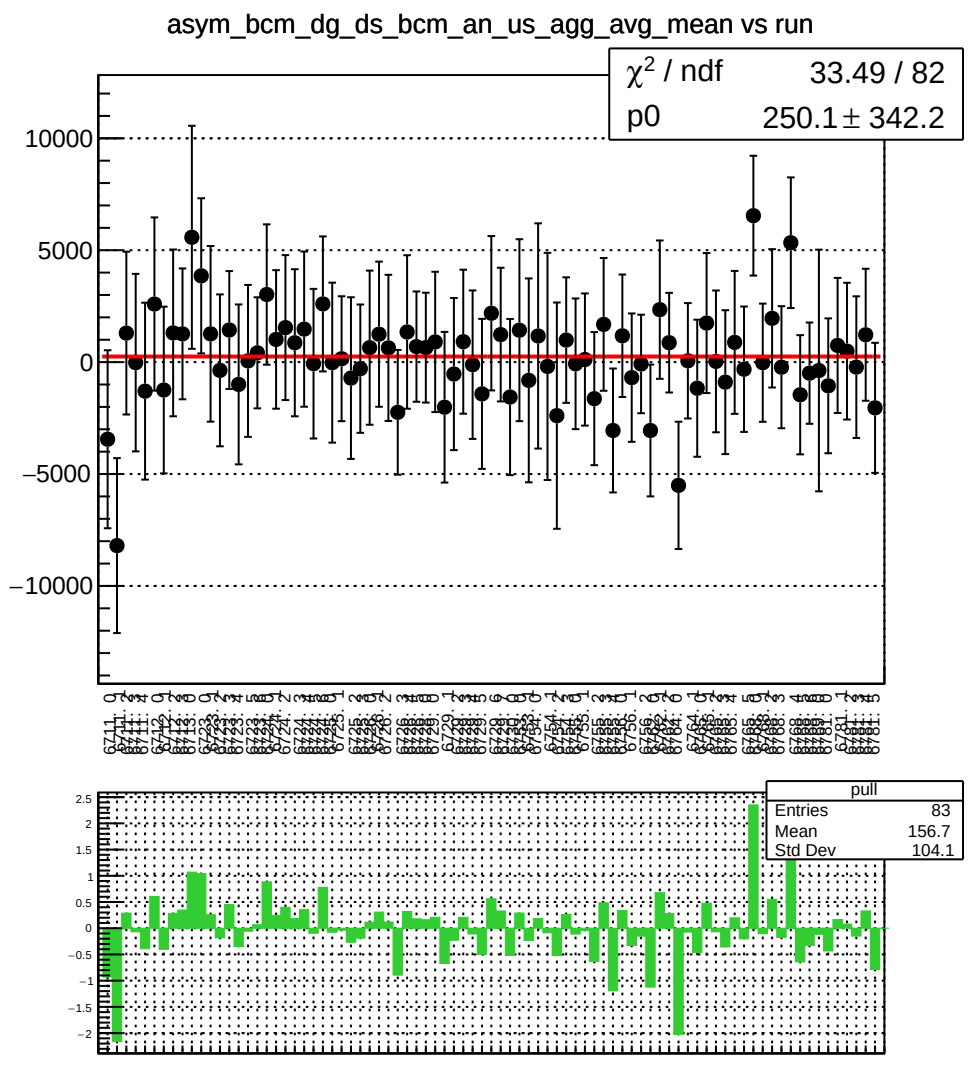

pull1D
Entries 83
Mean −0.004603
Std Dev 0.6259
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

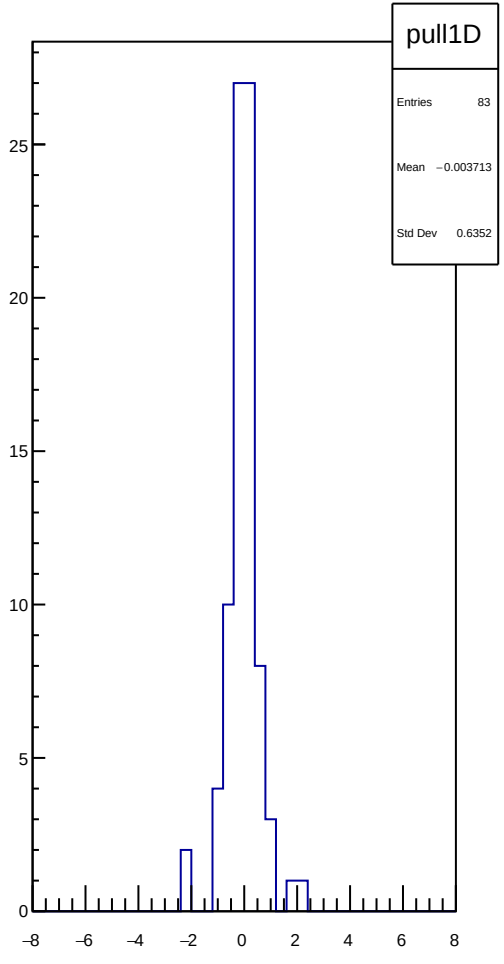

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.073e+04 / 82
p0 308.5 ± 0.2436
500
450
400
350
300
250

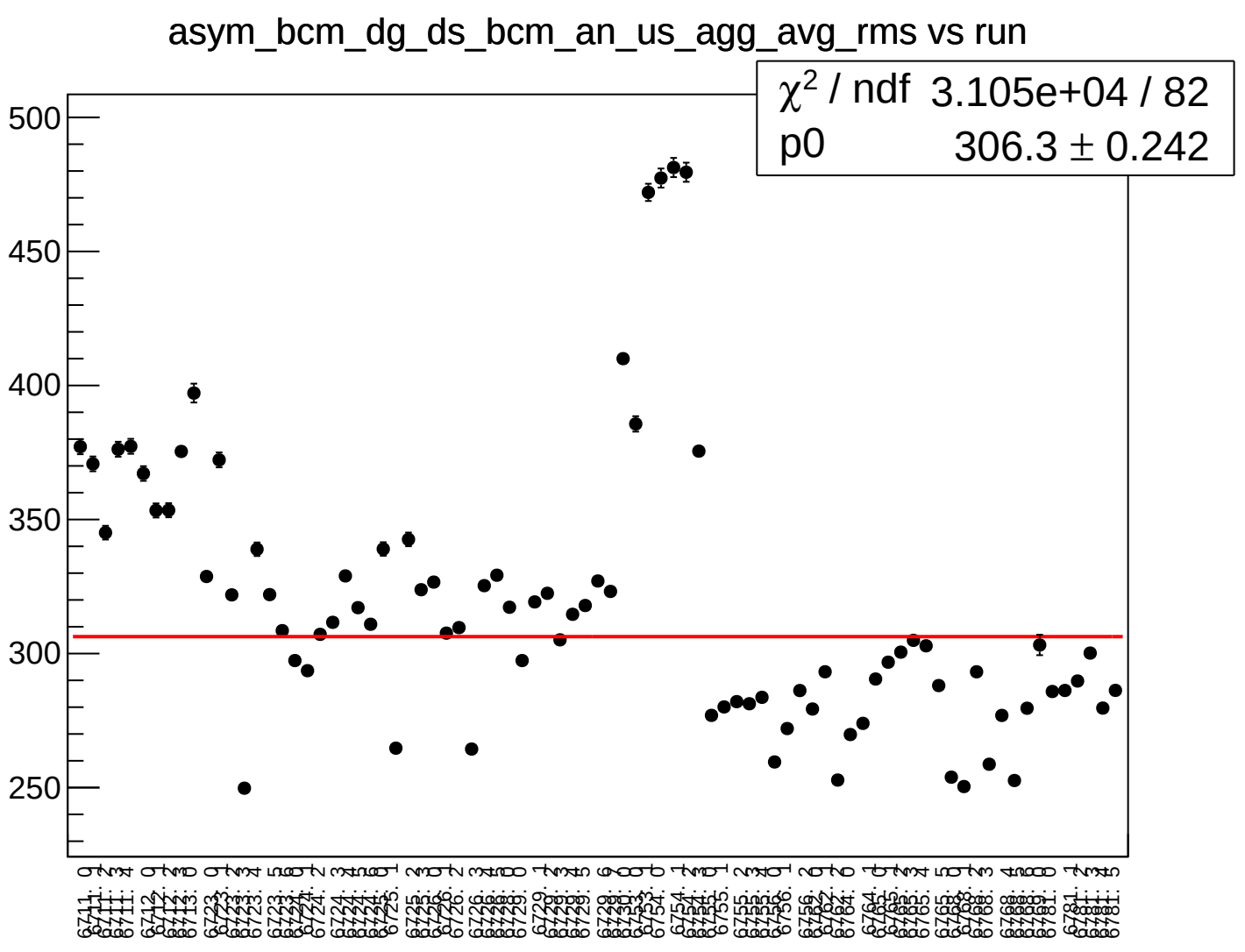

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 69.65 / 82
p0 3.119 ± 24.45
pull
Entries 83
Mean 349.6
Std Dev 298.5

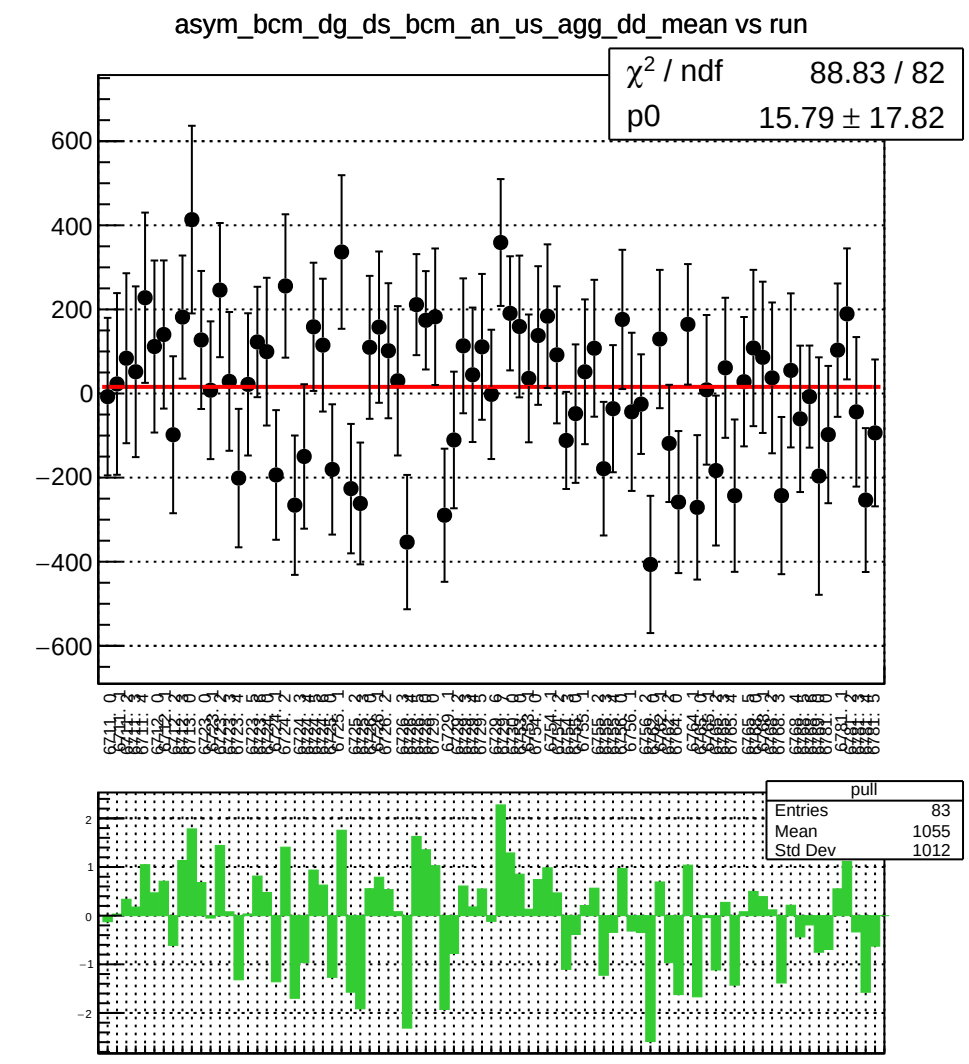

pull1D
Entries 83
Mean −0.007448
Std Dev 0.916

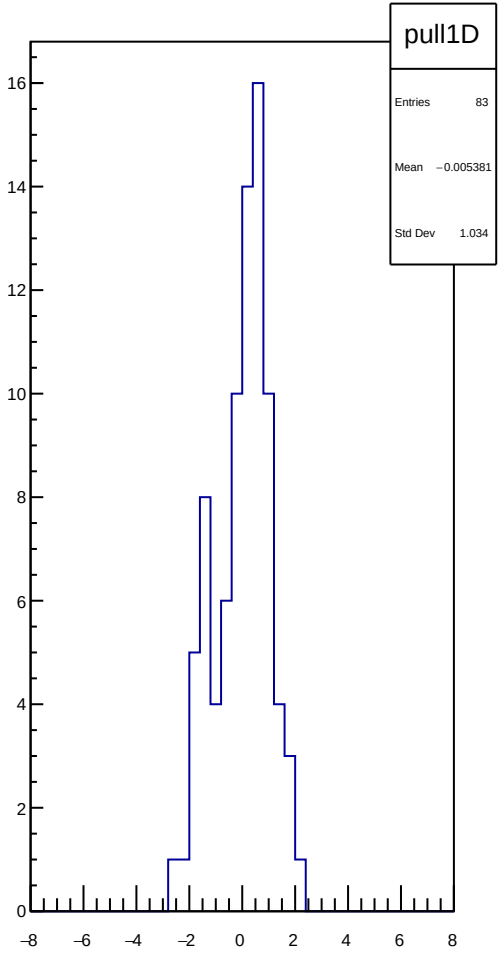

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1423 / 82
p0 22.09 ± 0.01729
25
24.5
24
23.5
23
22.5
22
21.5
21
20.5

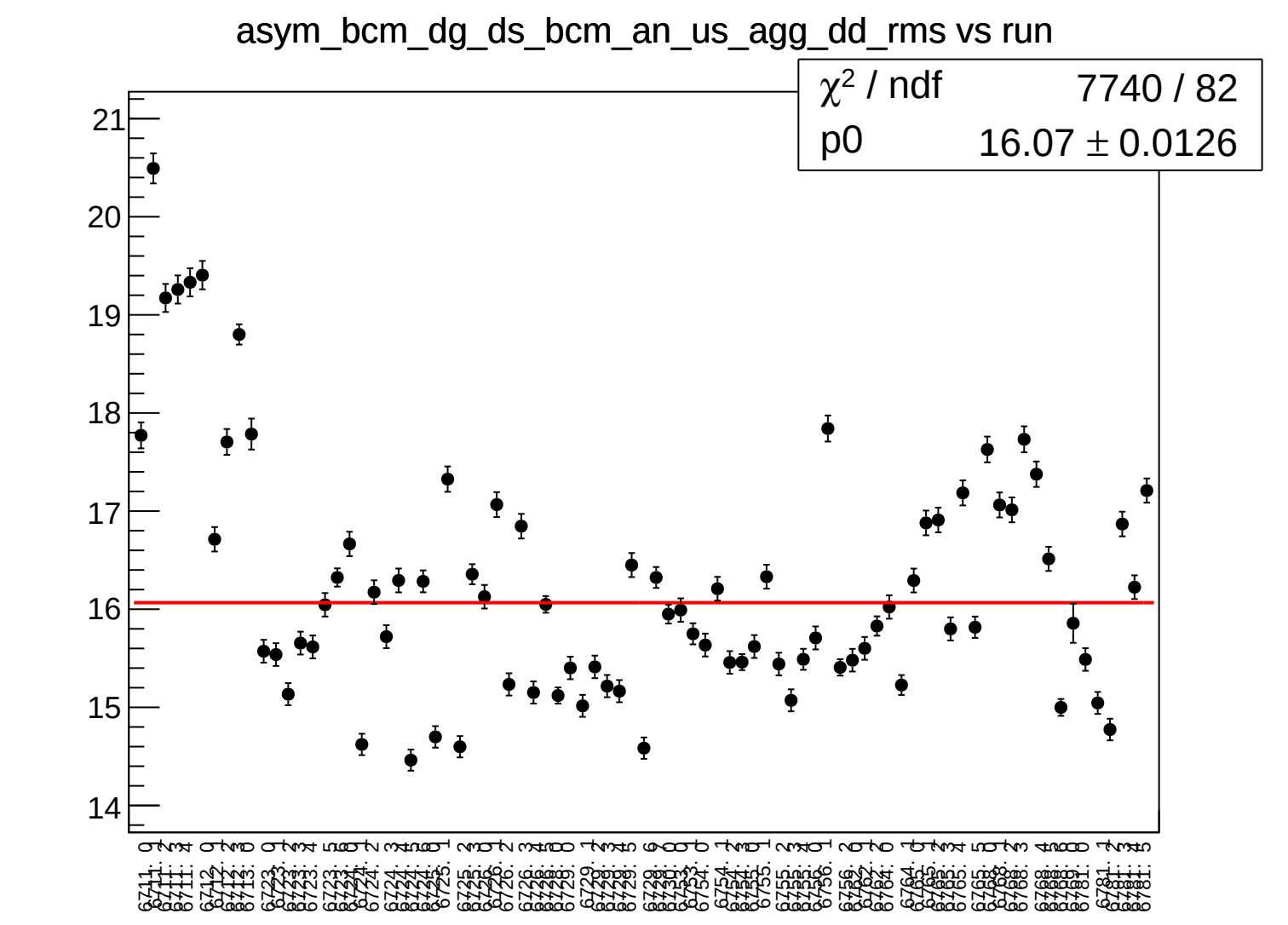

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 33.49 / 82
p0 250.1 ± 342.2
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 156.7
Std Dev 104.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

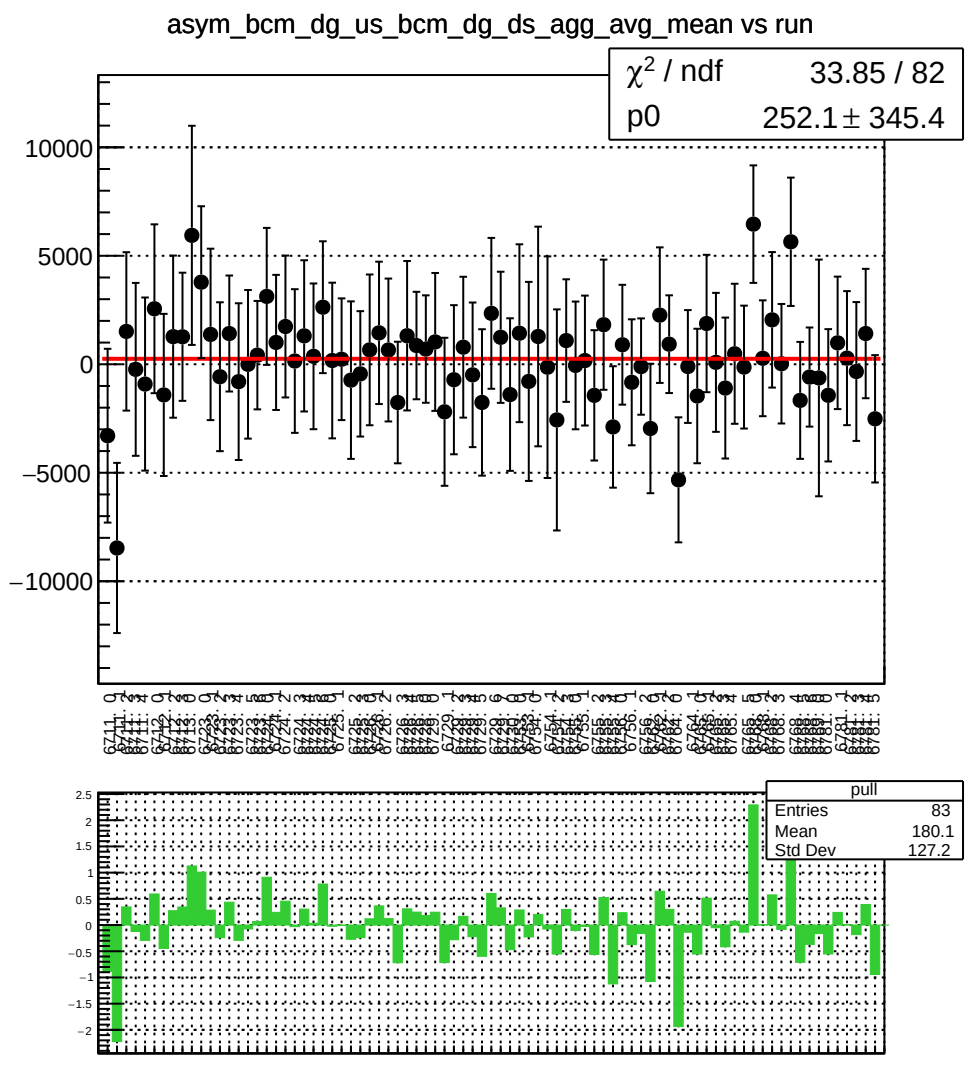

pull1D
Entries 83
Mean −0.003713
Std Dev 0.6352
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

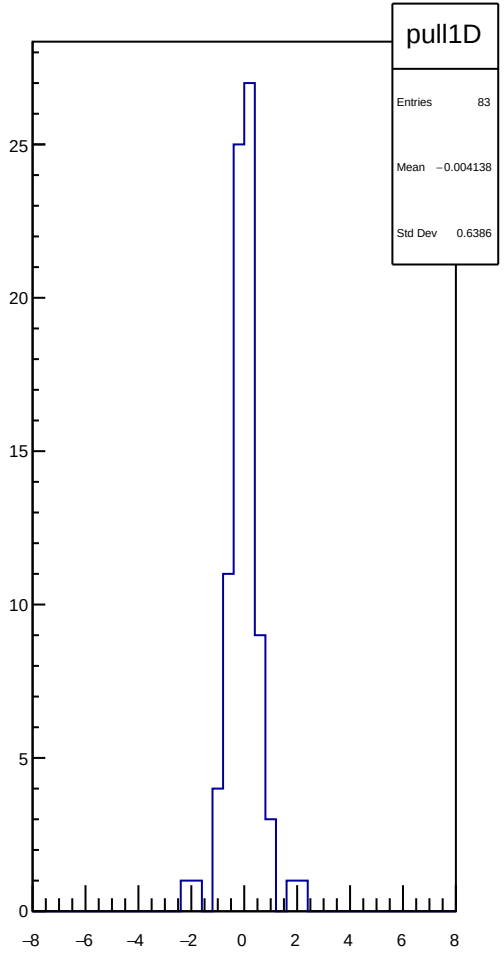

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.105e+04 / 82
p0 306.3 ± 0.242
500
450
400
350
300
250

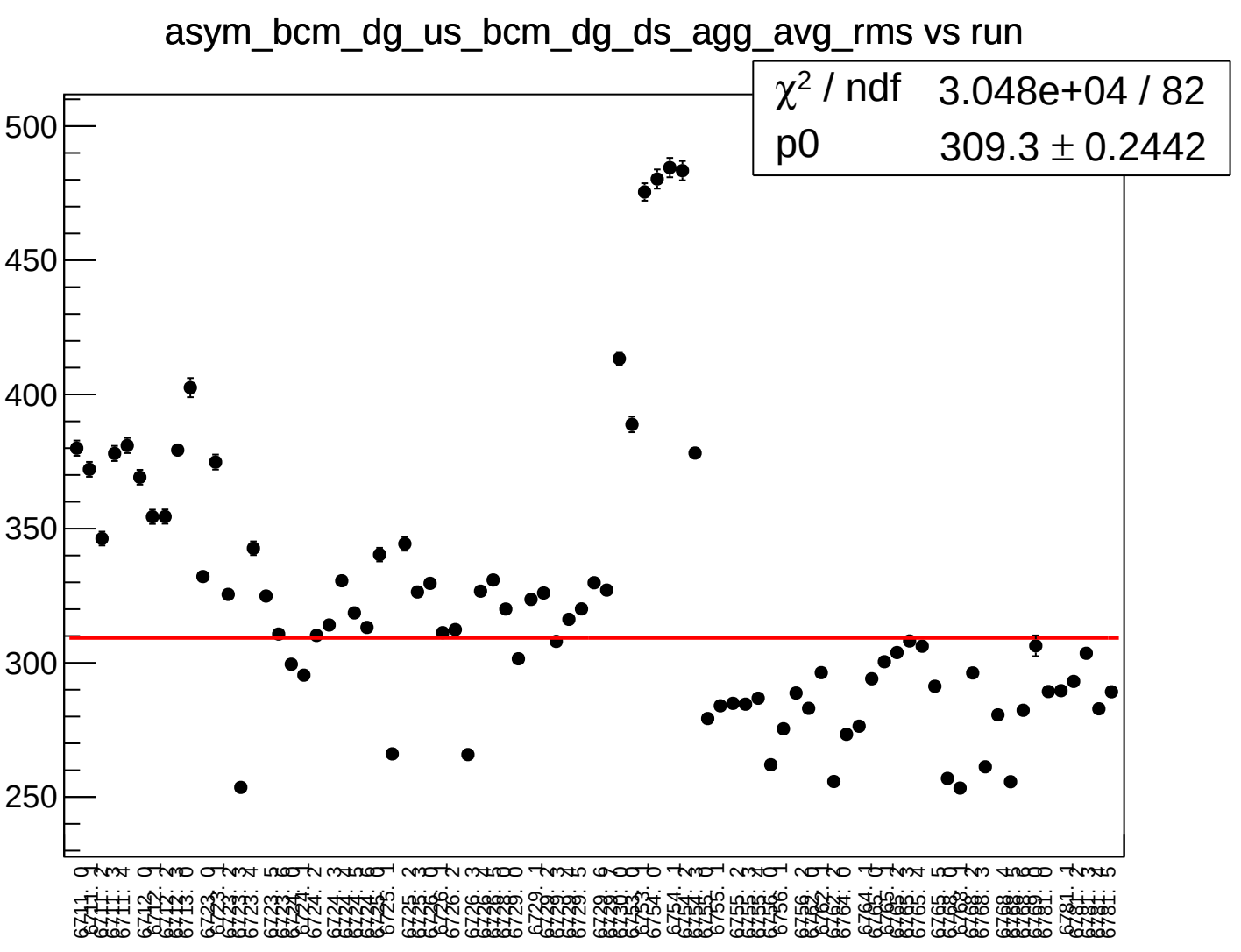

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 88.83 / 82
p0 15.79 ± 17.82
pull
Entries 83
Mean 1055
Std Dev 1012

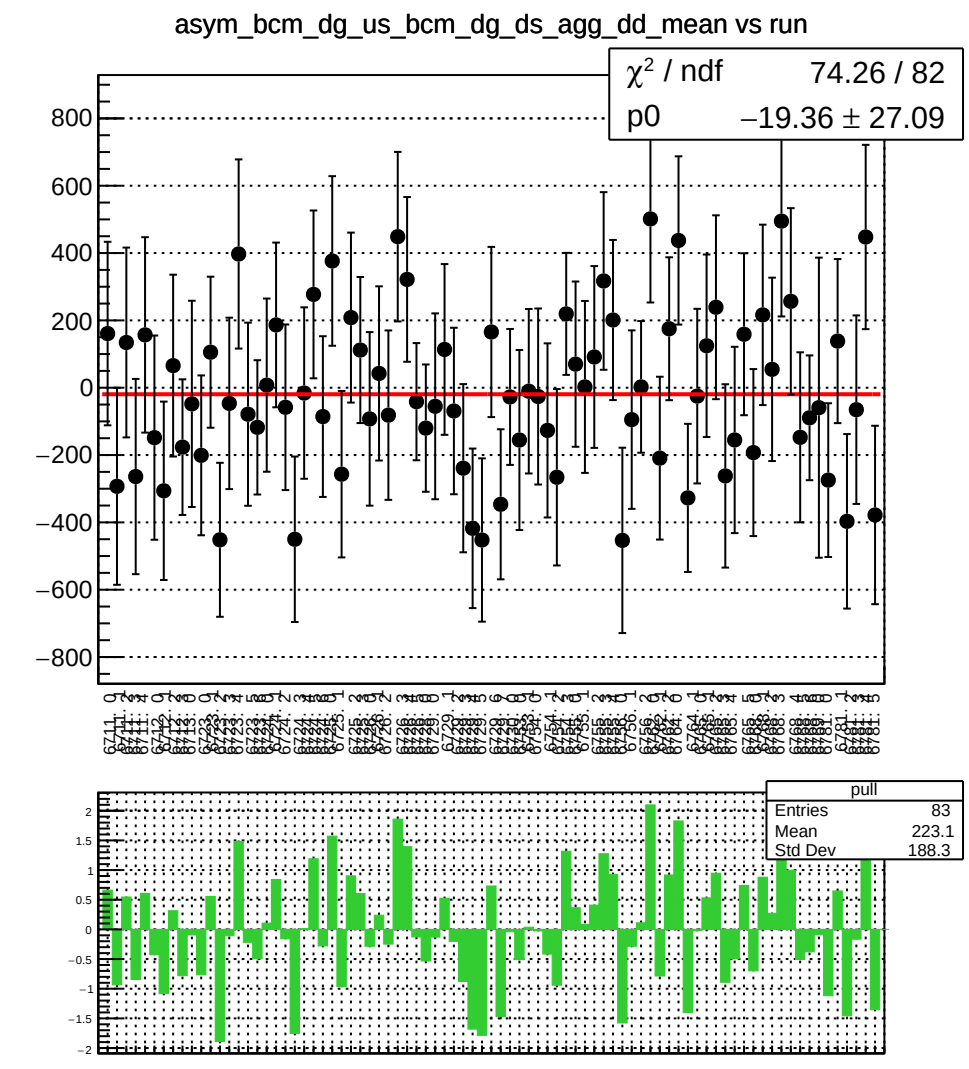

pull1D
Entries 83
Mean −0.005381
Std Dev 1.034

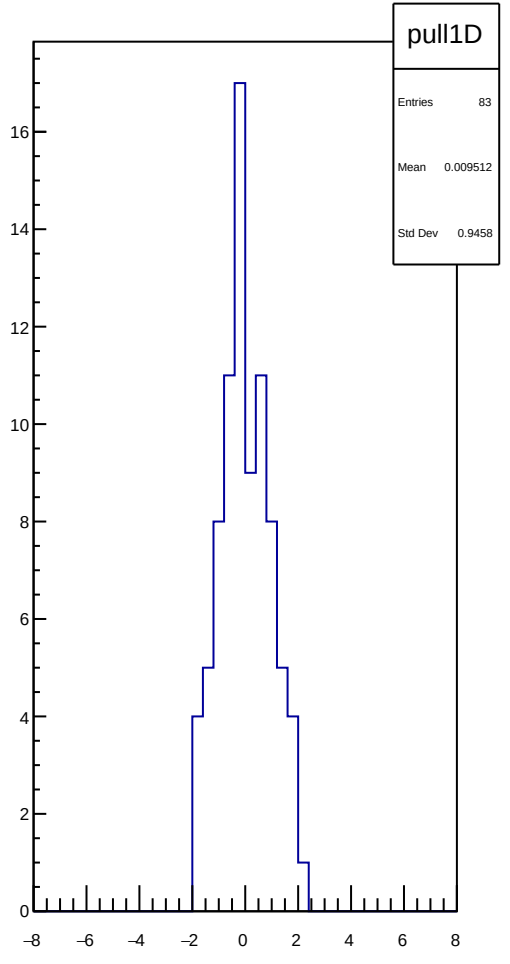

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 7740 / 82
p0 16.07 ± 0.0126
21
20
19
18
17
16
15
14

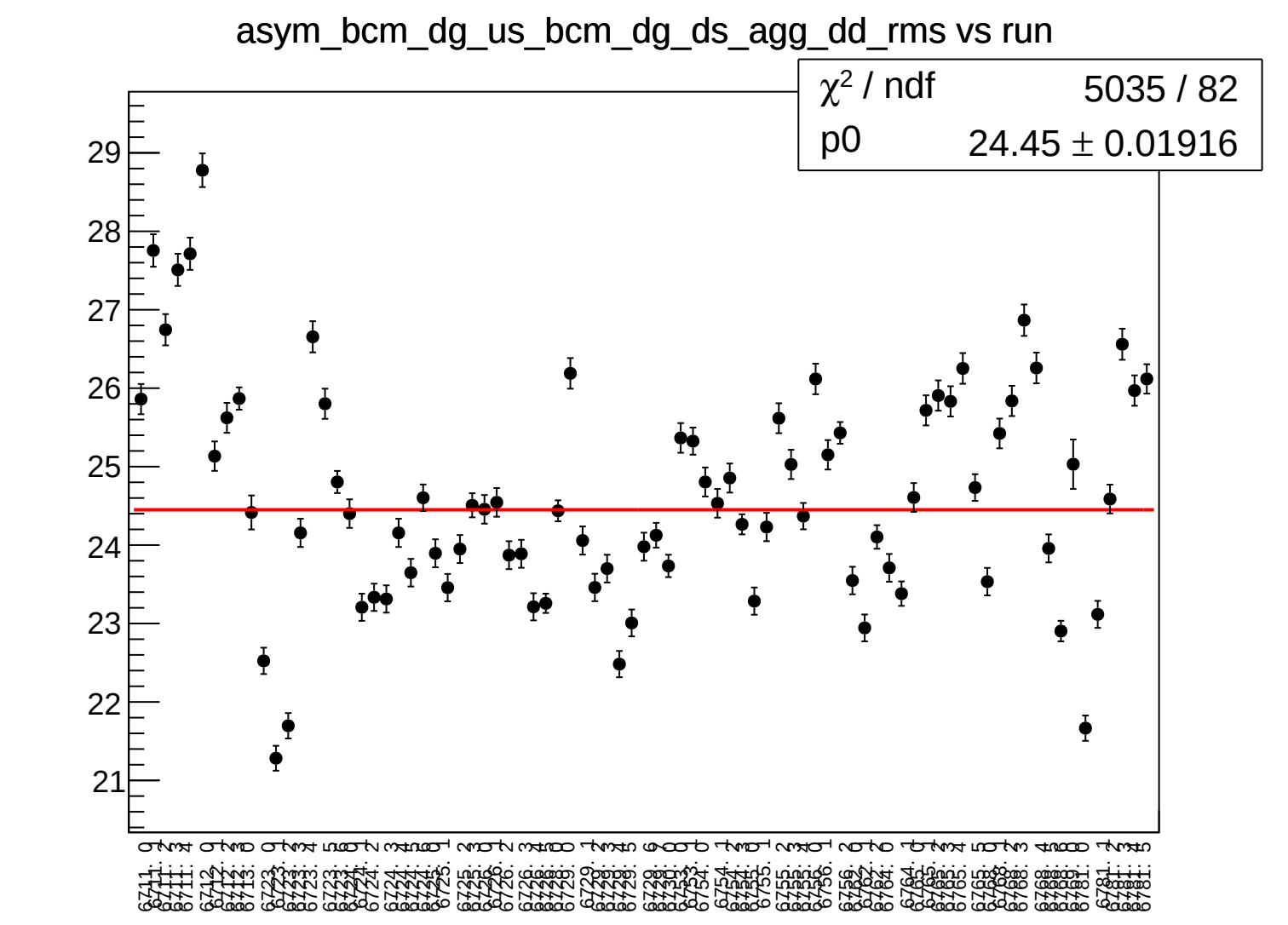

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 33.85 / 82
p0 252.1 ± 345.4
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 180.1
Std Dev 127.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

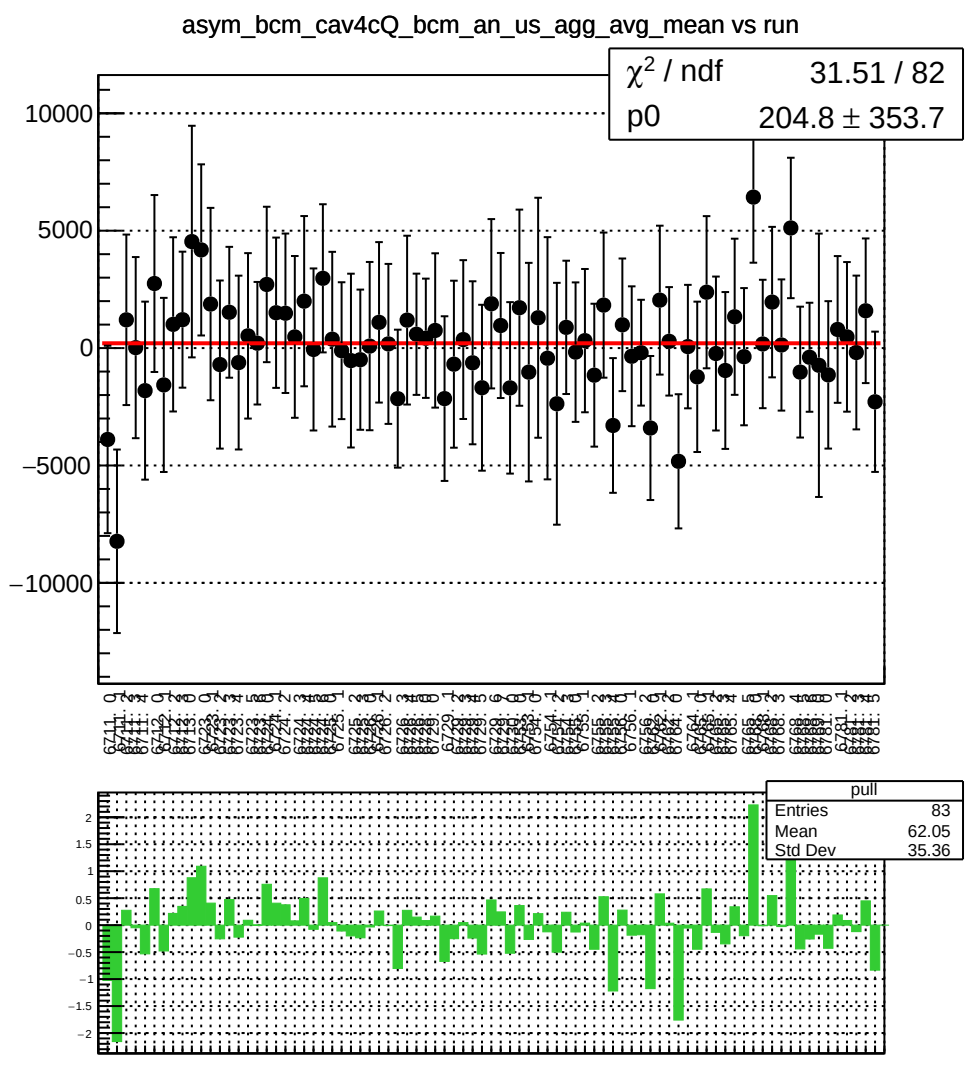

pull1D
Entries 83
Mean −0.004138
Std Dev 0.6386
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

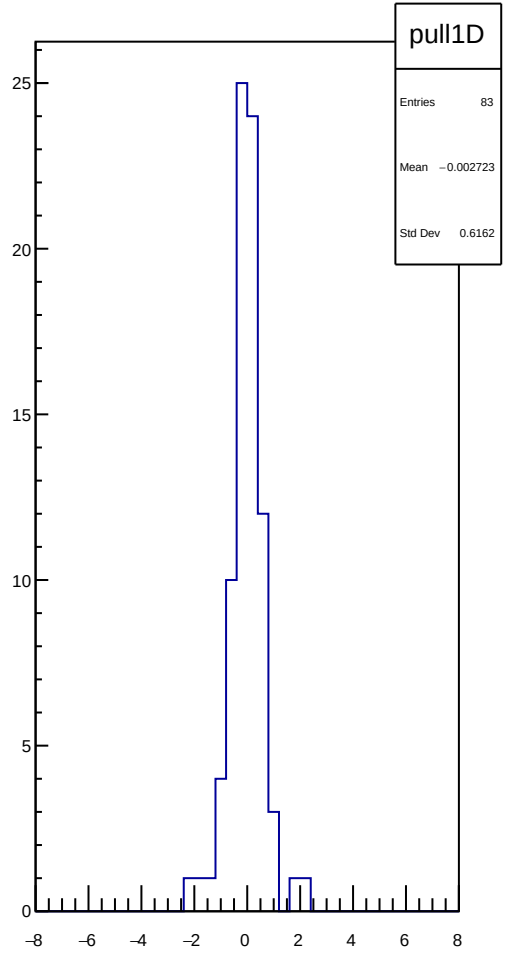

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.048e+04 / 82
p0 309.3 ± 0.2442
500
450
400
350
300
250

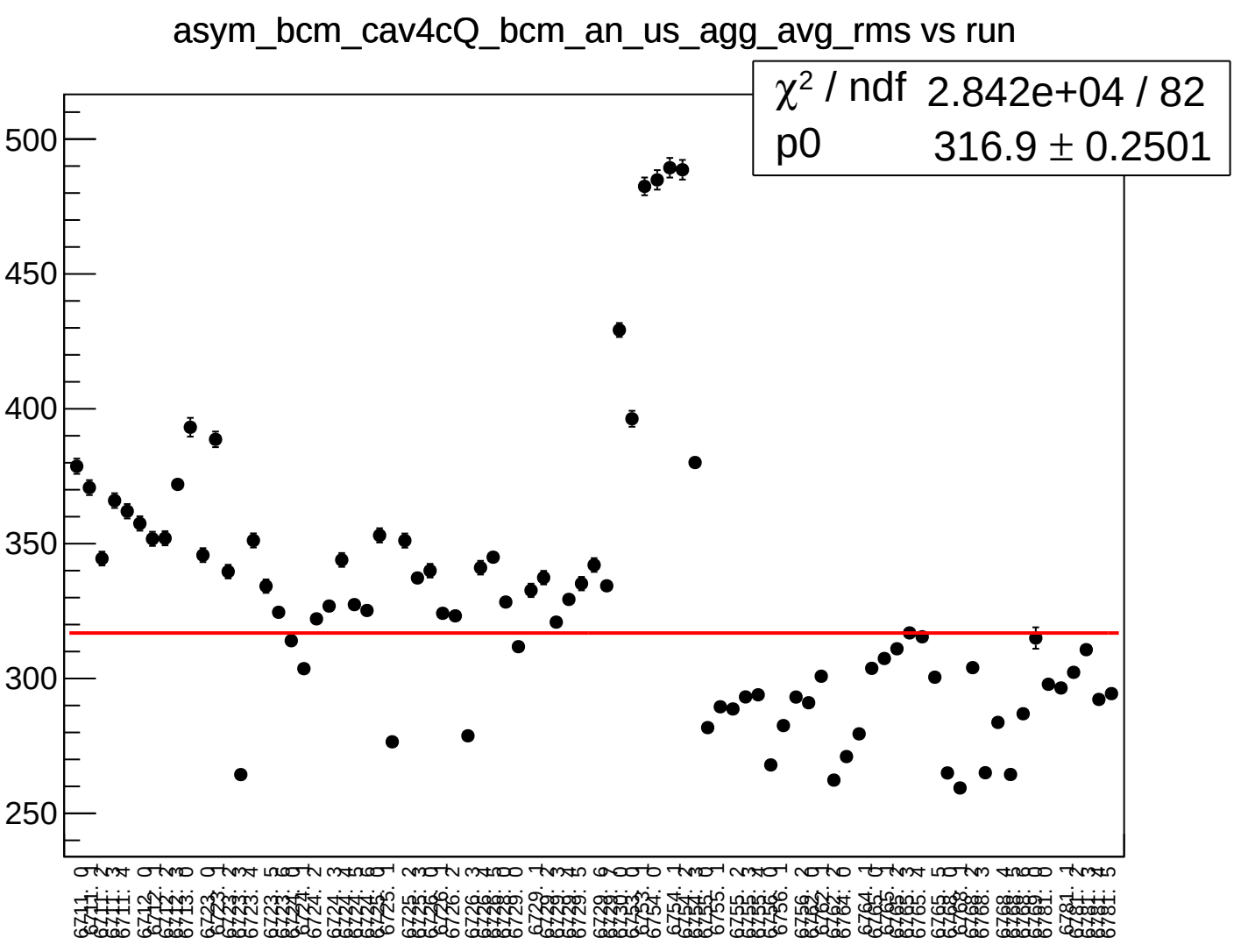

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 74.26 / 82
p0 −19.36 ± 27.09
pull
Entries 83
Mean 223.1
Std Dev 188.3

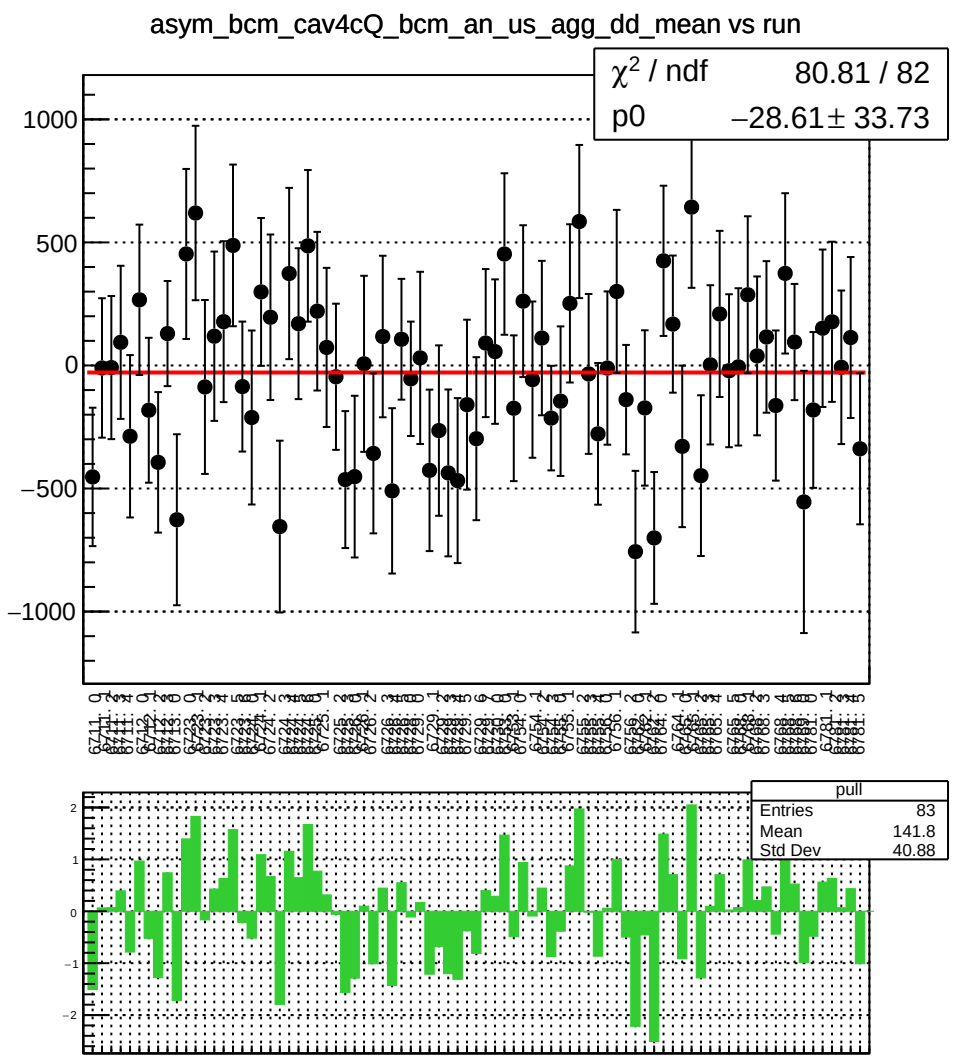

pull1D
Entries 83
Mean 0.009512
Std Dev 0.9458

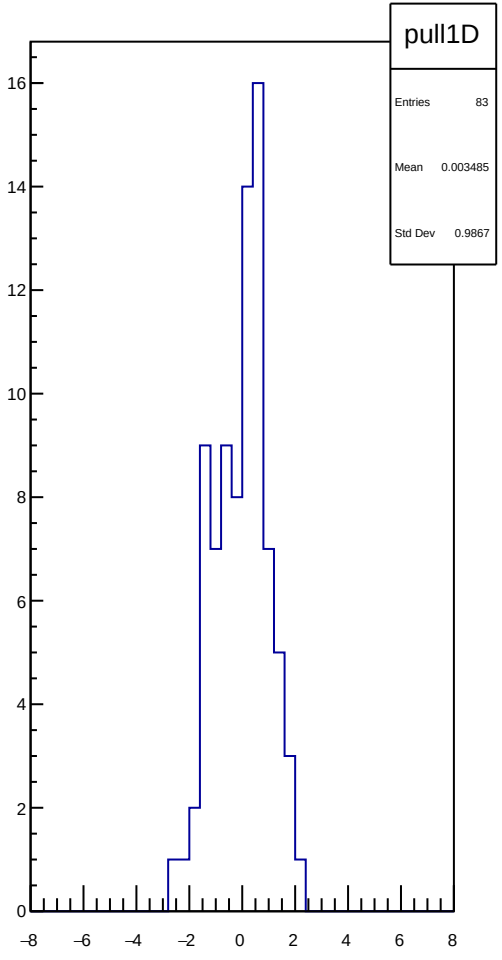

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5035 / 82
p0 24.45 ± 0.01916
29
28
27
26
25
24
23
22
21

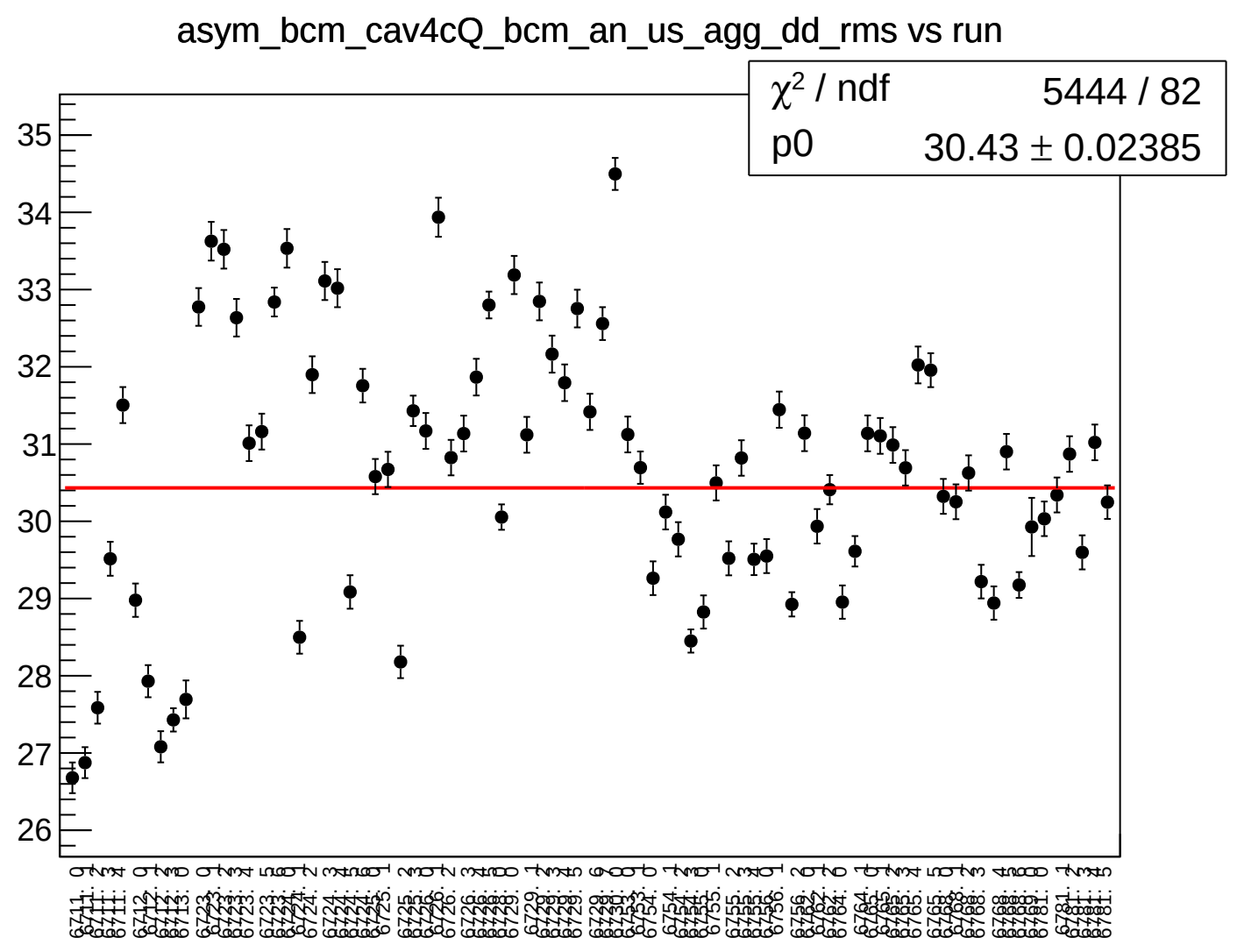

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 31.51 / 82
p0 204.8 ± 353.7
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 62.05
Std Dev 35.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

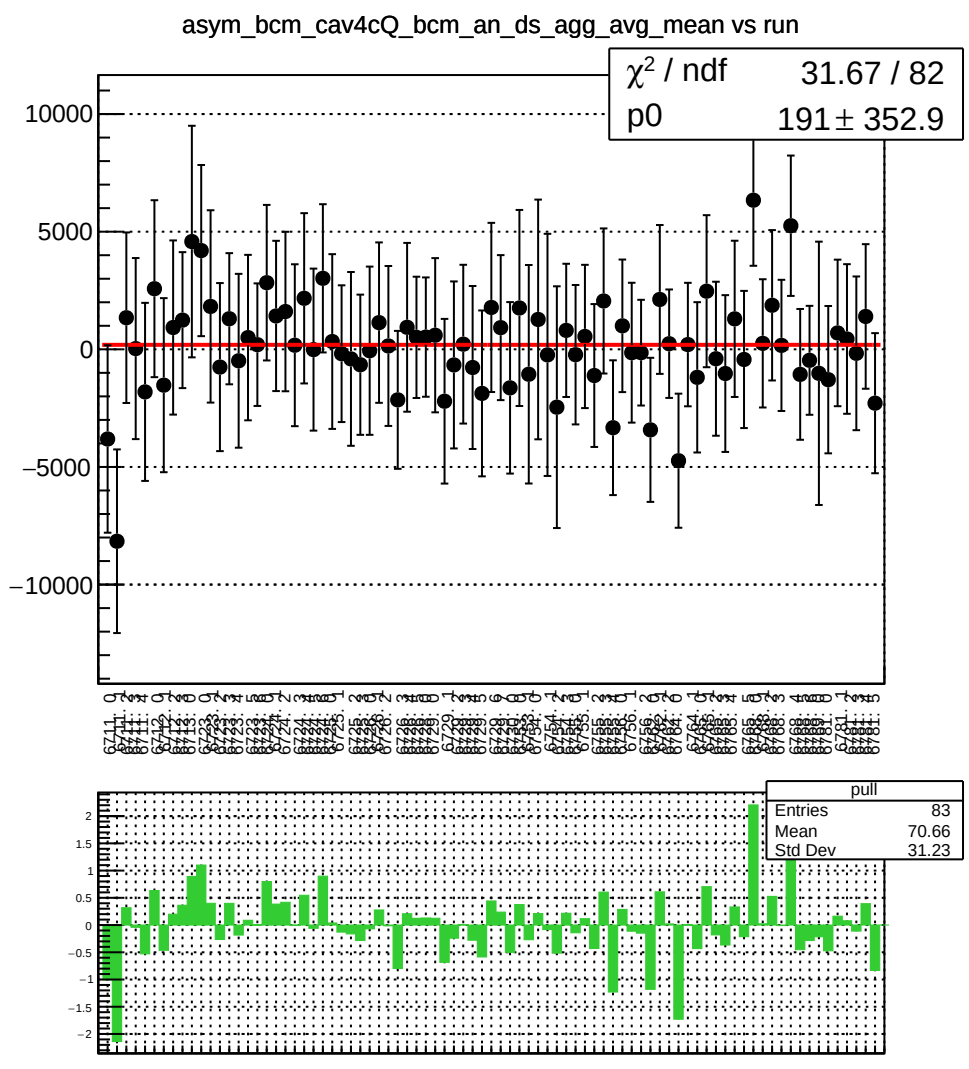

pull1D
Entries 83
Mean −0.002723
Std Dev 0.6162
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

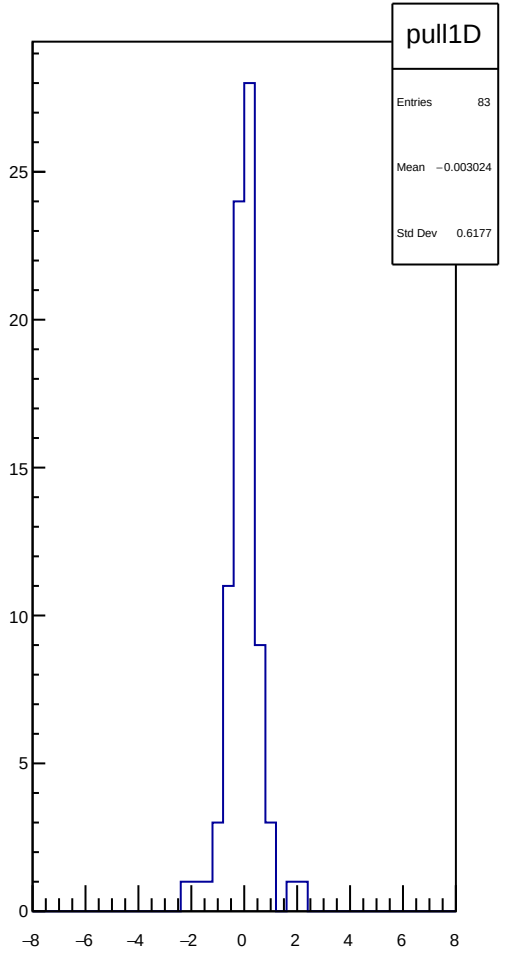

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.842e+04 / 82
p0 316.9 ± 0.2501
500
450
400
350
300
250

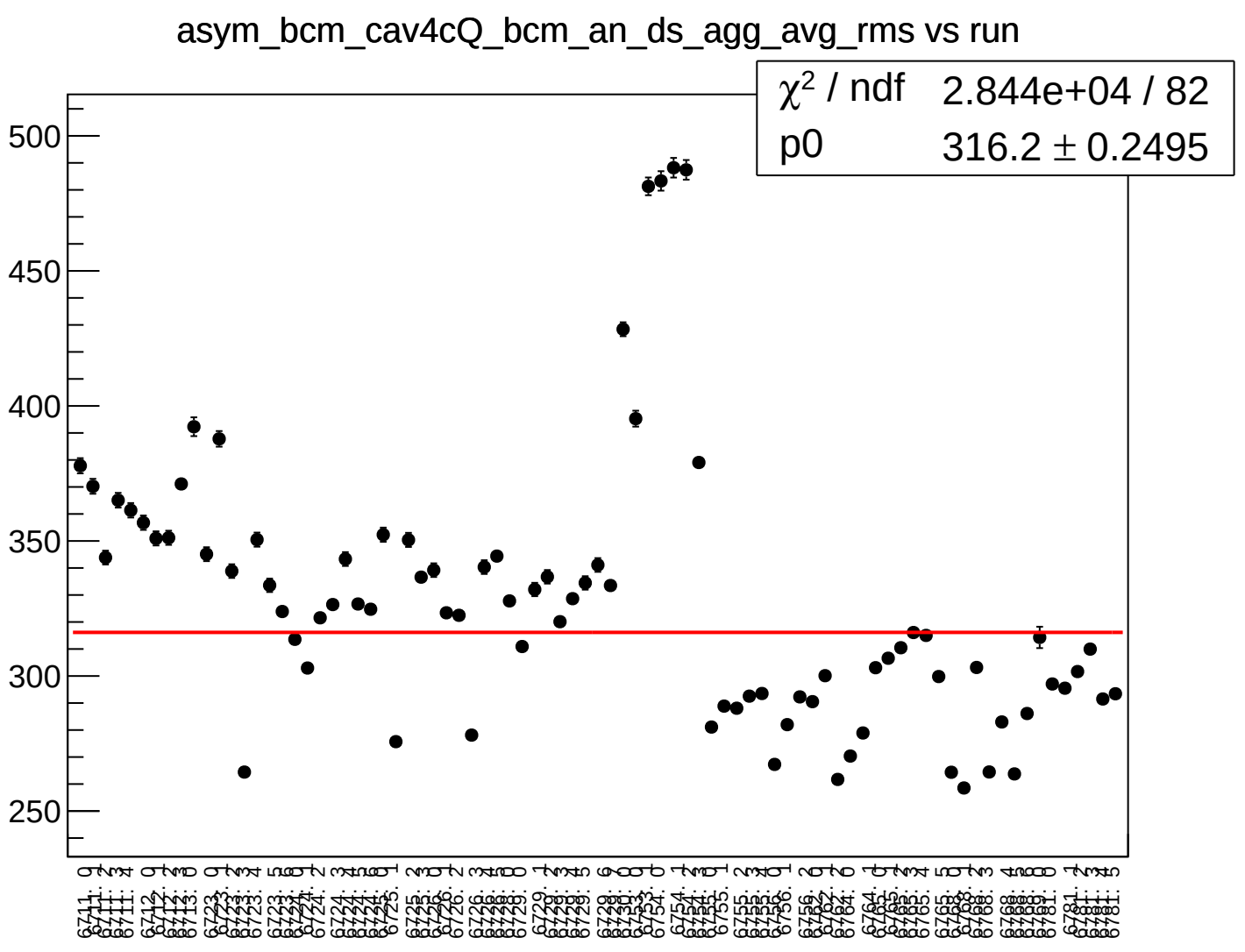

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 80.81 / 82
p0 −28.61 ± 33.73
1000
500
0
−500
−1000
pull
Entries 83
Mean 141.8
Std Dev 40.88
2
1
0
−1
−2

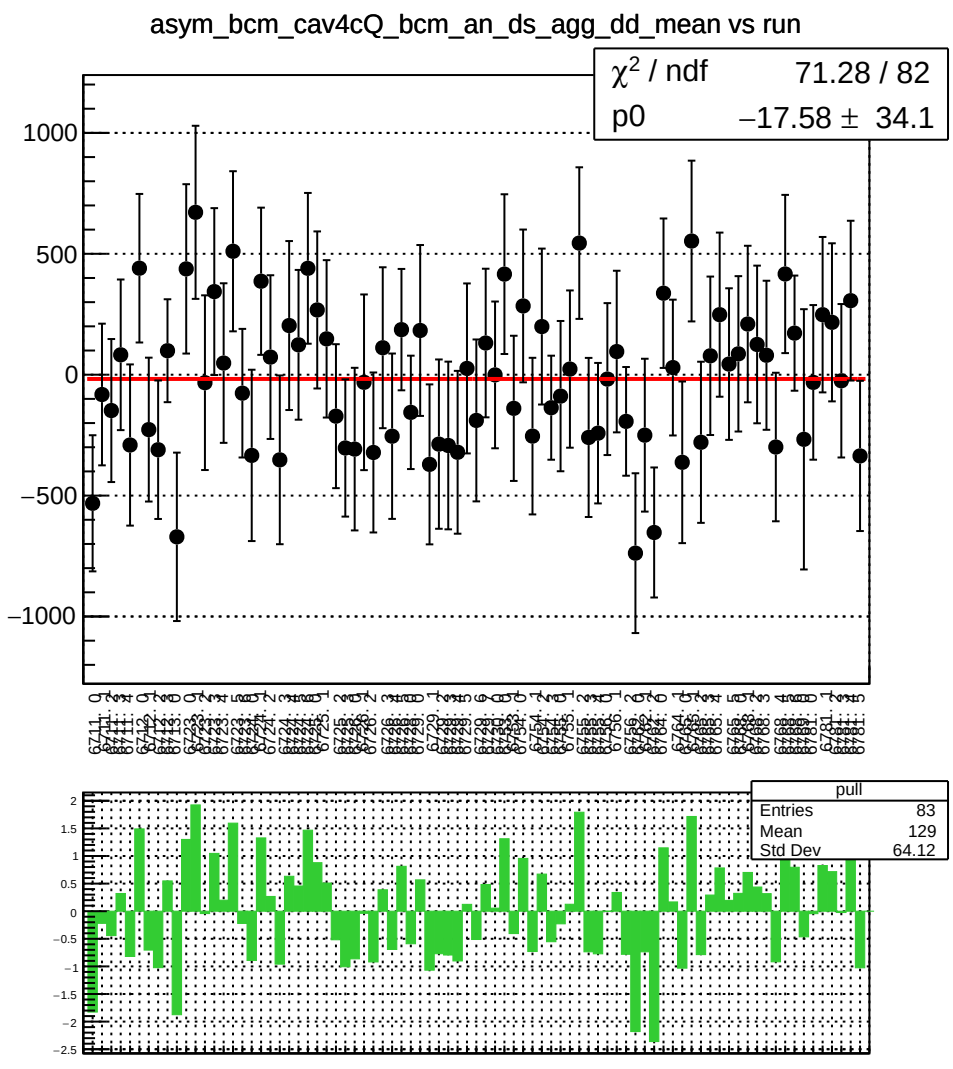

pull1D
Entries 83
Mean 0.003485
Std Dev 0.9867
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

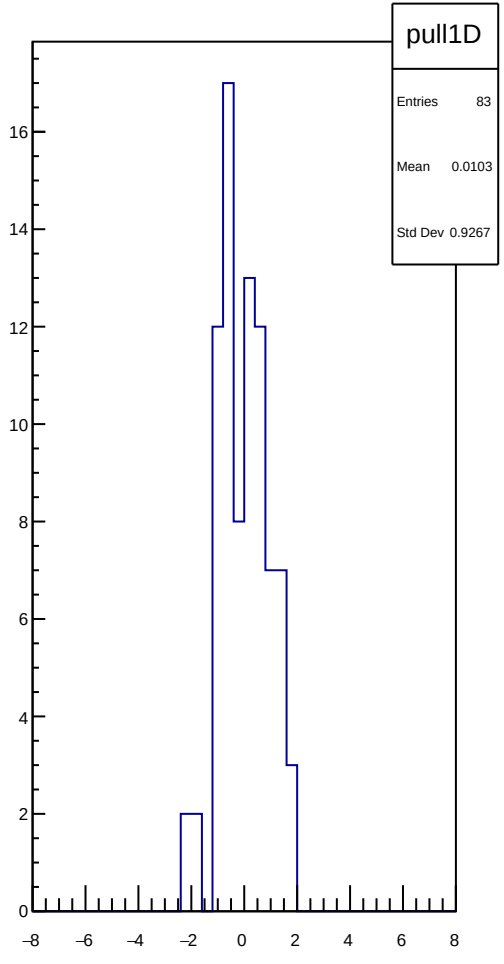

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 5444 / 82
p0 30.43 ± 0.02385
35
34
33
32
31
30
29
28
27
26

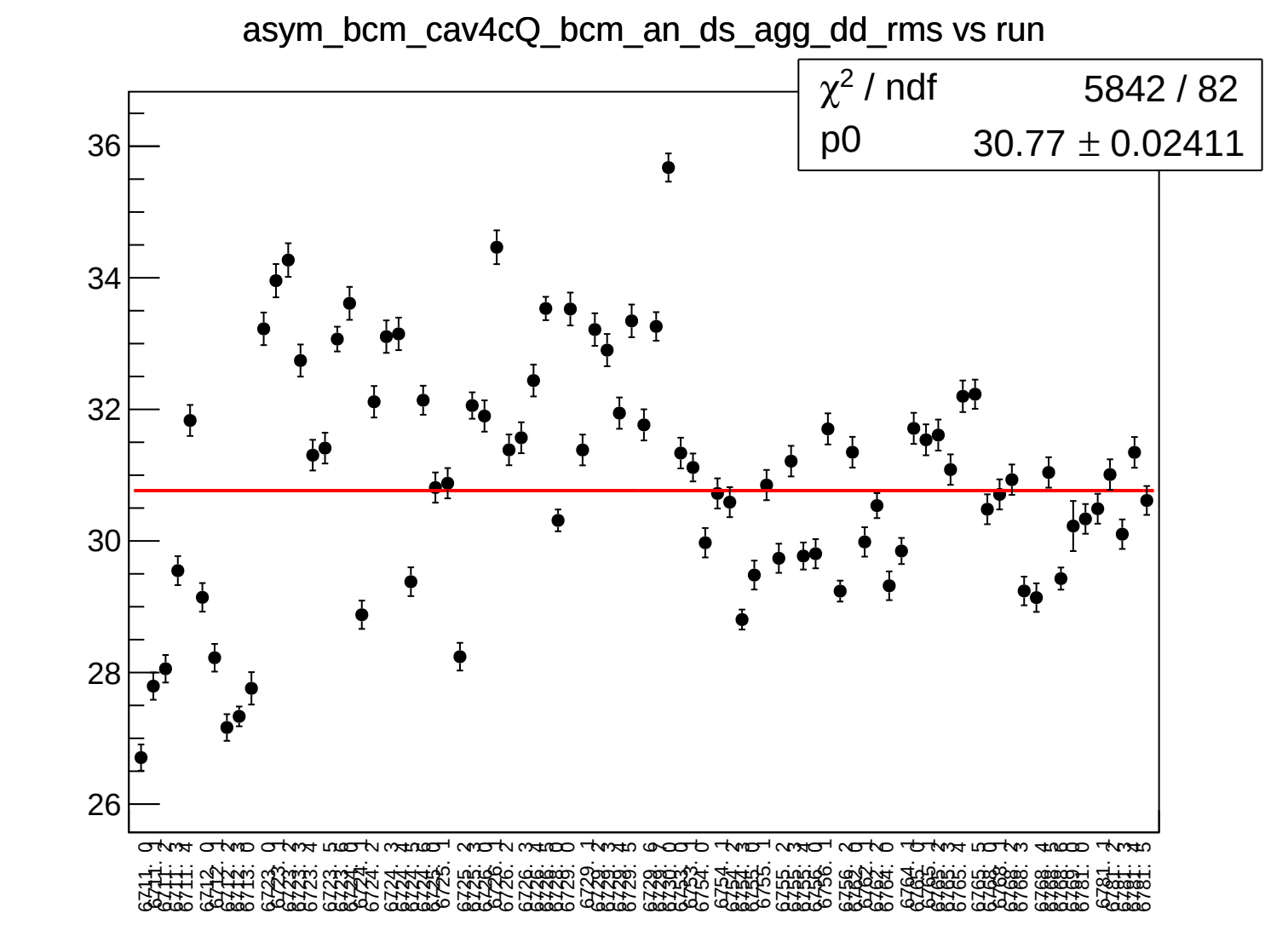

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 31.67 / 82
p0 191 ± 352.9
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 70.66
Std Dev 31.23
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

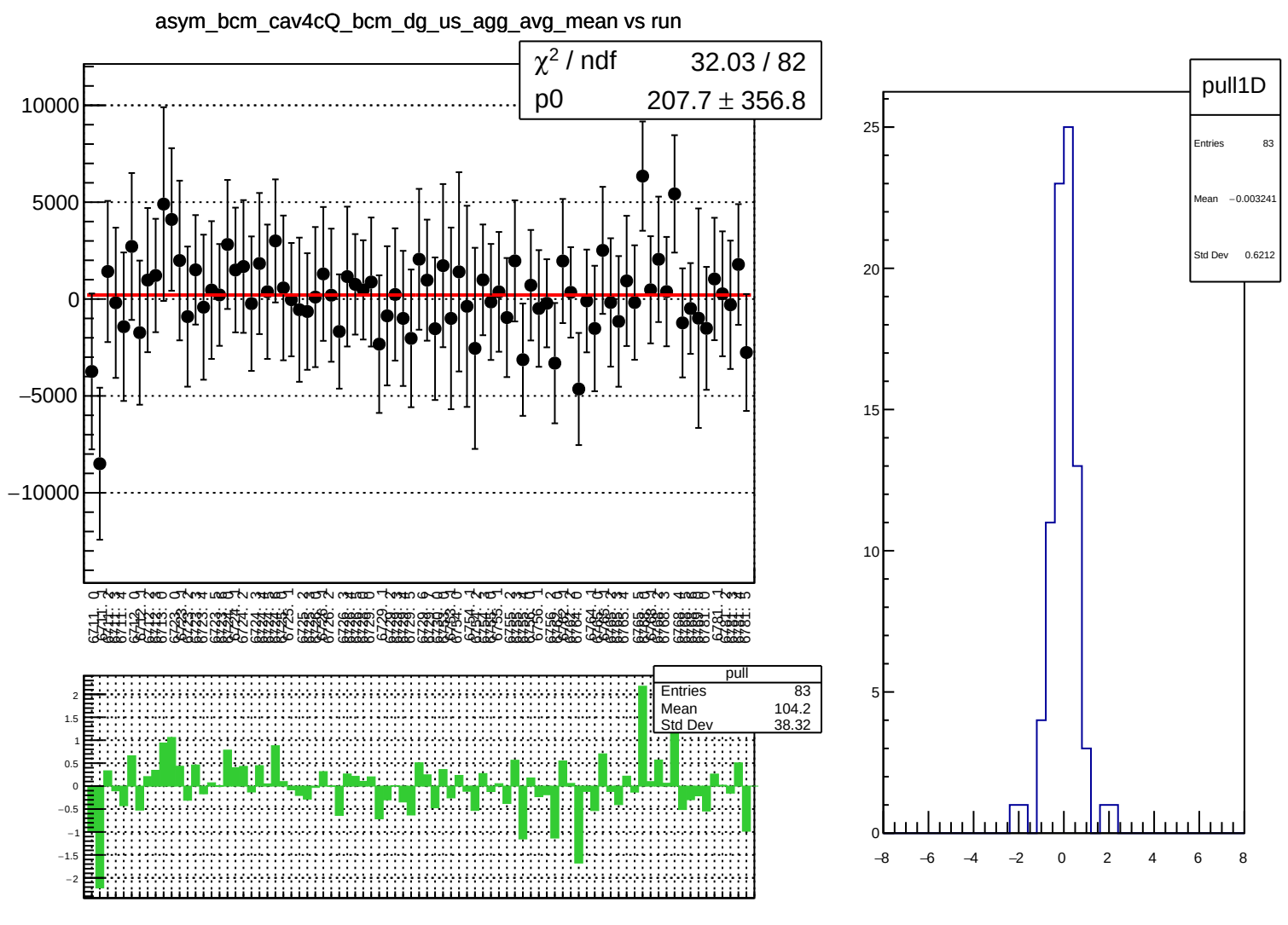

pull1D
Entries 83
Mean −0.003024
Std Dev 0.6177
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

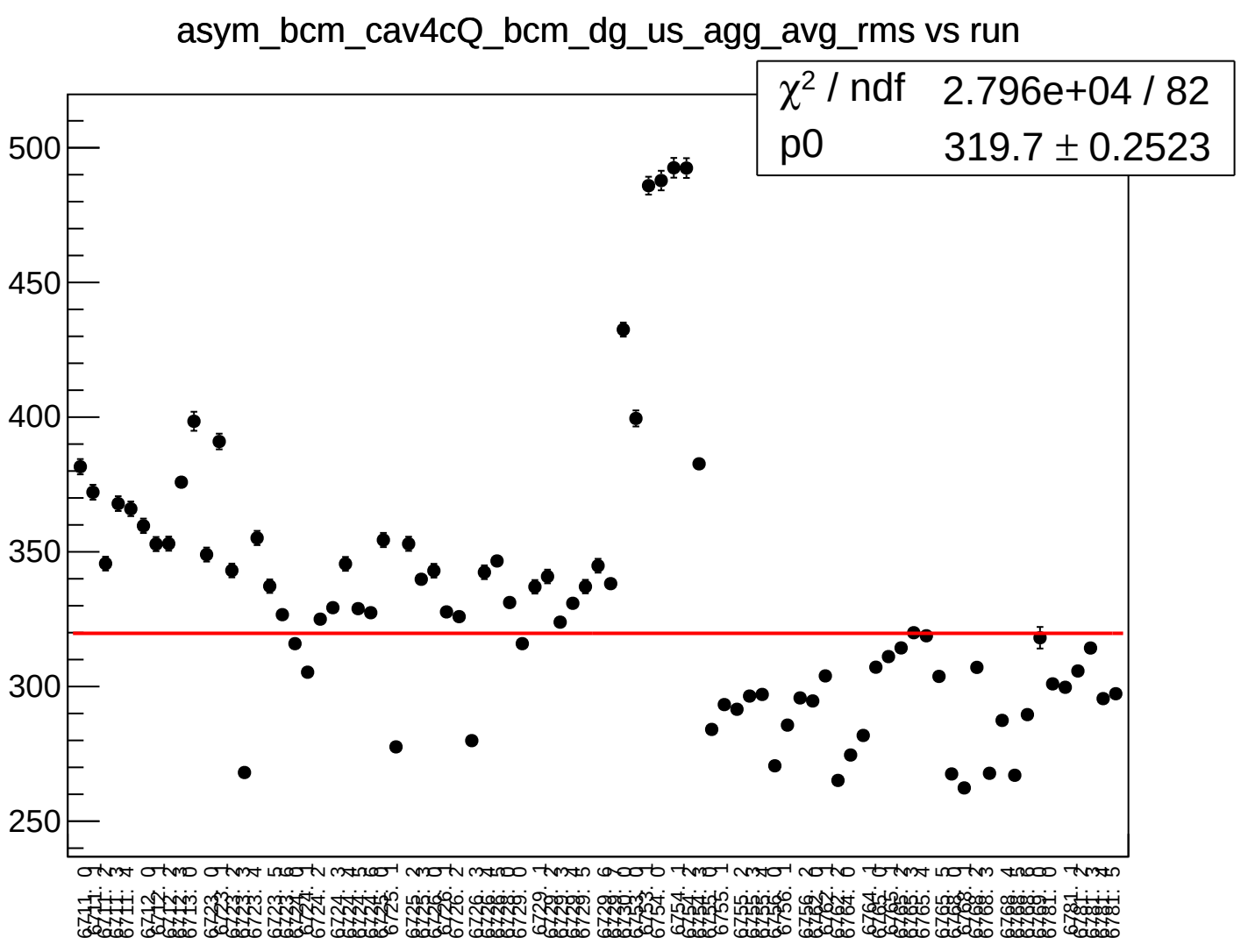

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.844e+04 / 82
p0 316.2 ± 0.2495
500
450
400
350
300
250

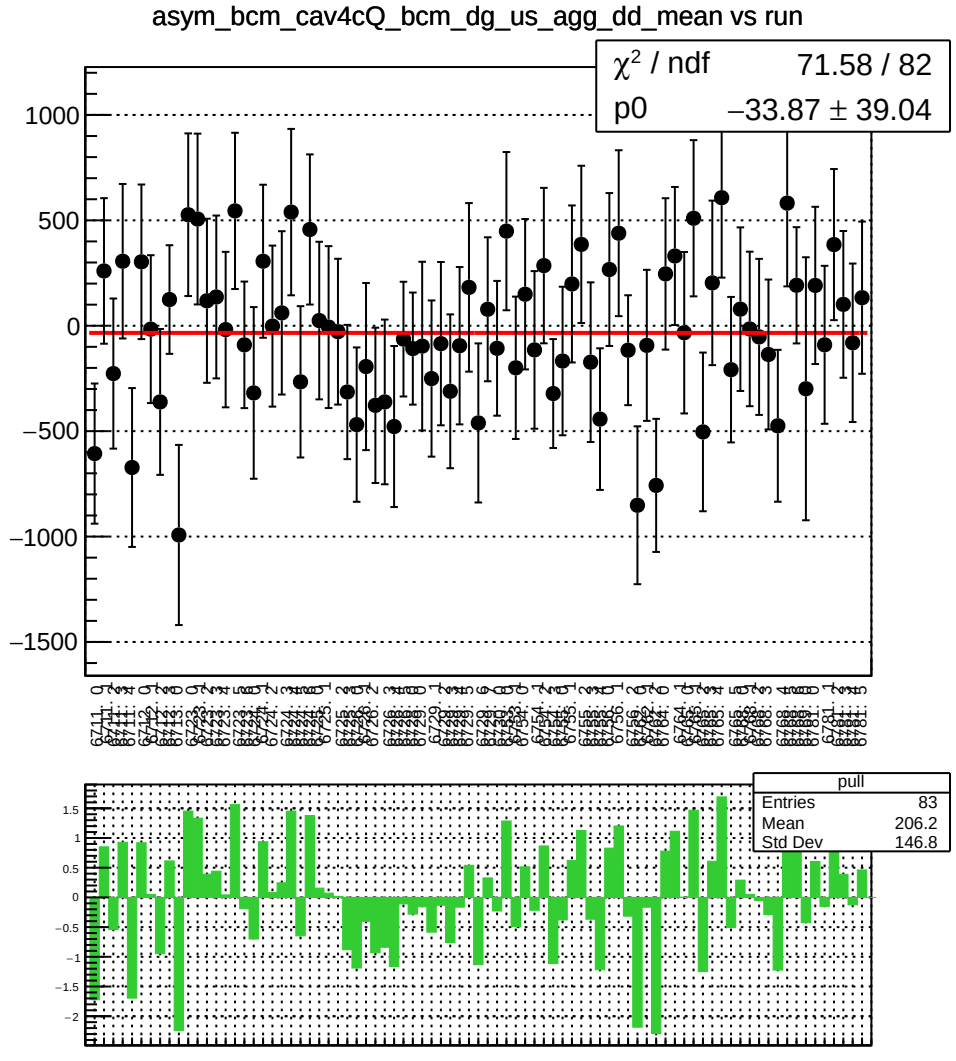

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 71.28 / 82
p0 −17.58 ± 34.1
1000
500
0
−500
−1000
pull
Entries 83
Mean 129
Std Dev 64.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

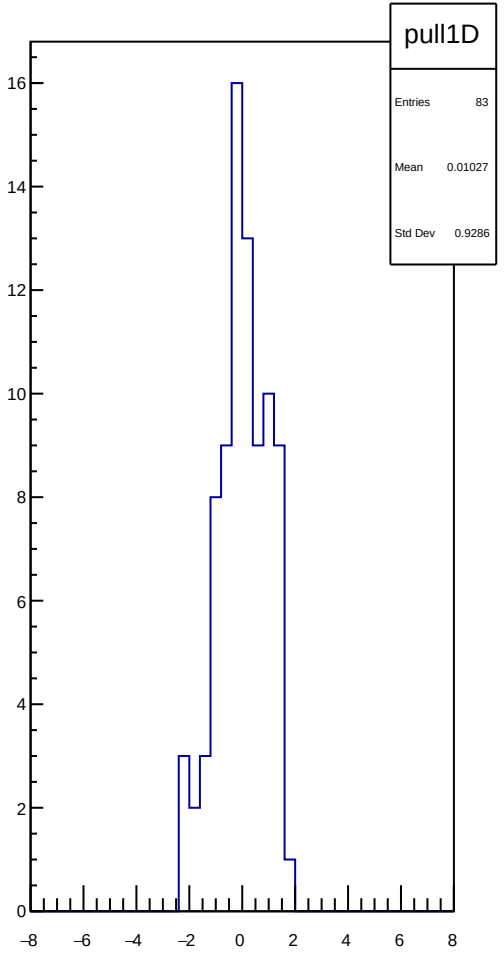

pull1D
Entries 83
Mean 0.0103
Std Dev 0.9267
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

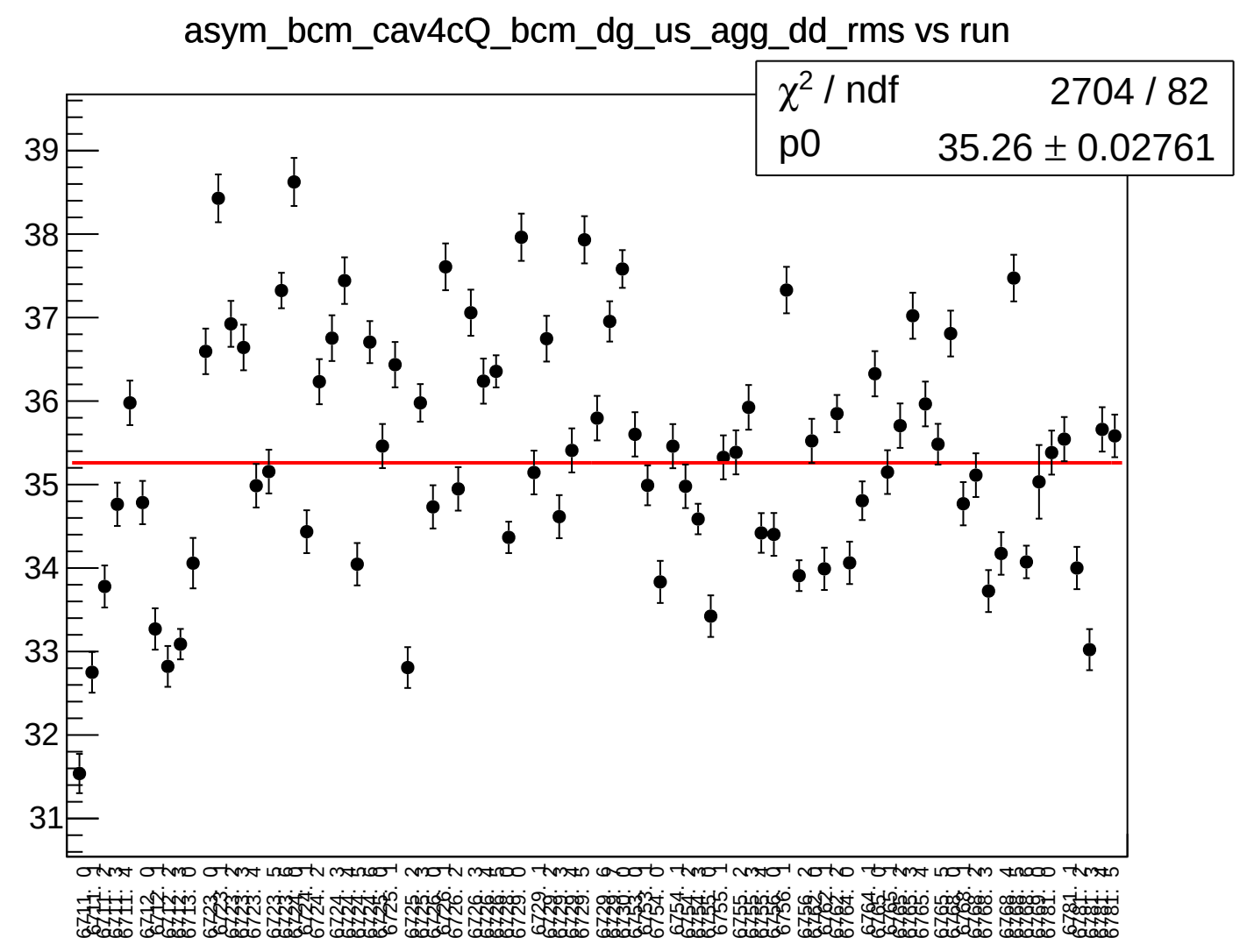

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5842 / 82
p0 30.77 ± 0.02411
36
34
32
30
28
26

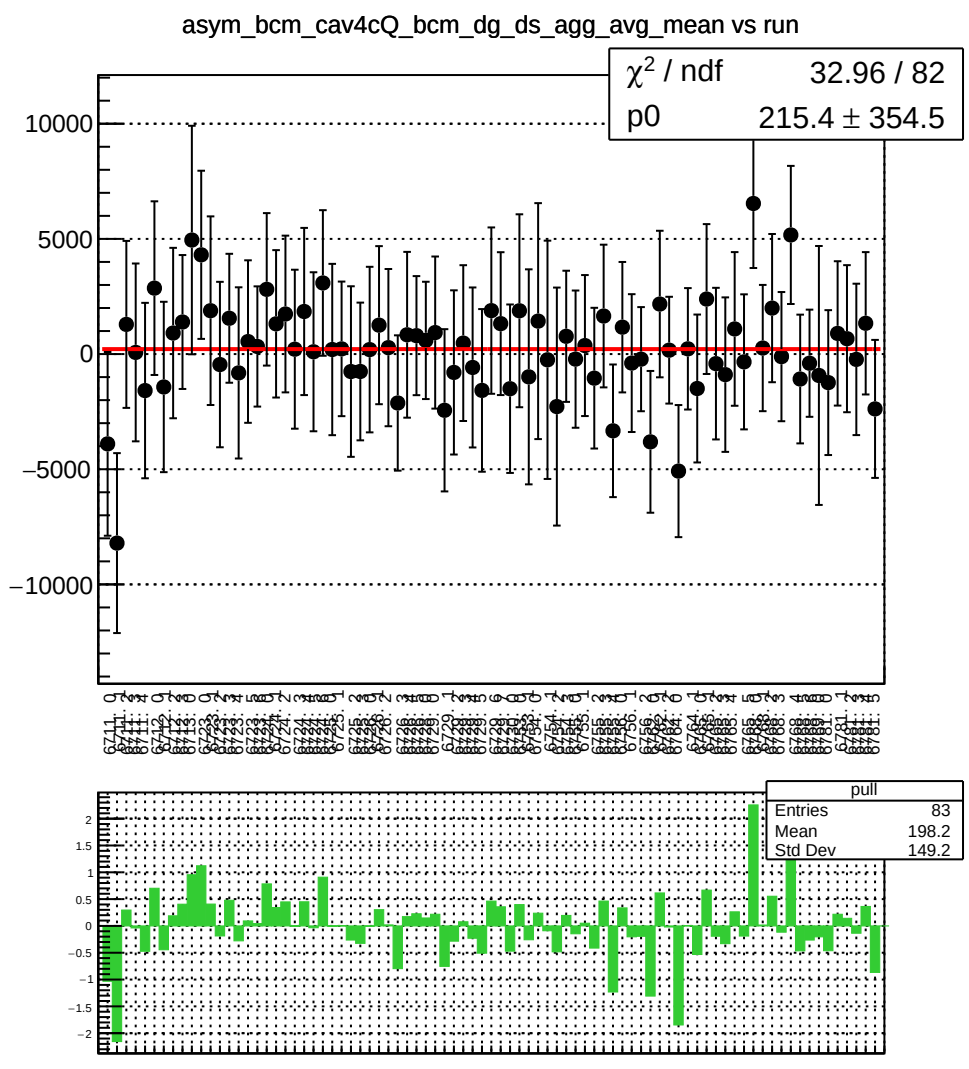

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 32.03 / 82
p0 207.7 ± 356.8
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 104.2
Std Dev 38.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 83
Mean −0.003241
Std Dev 0.6212
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

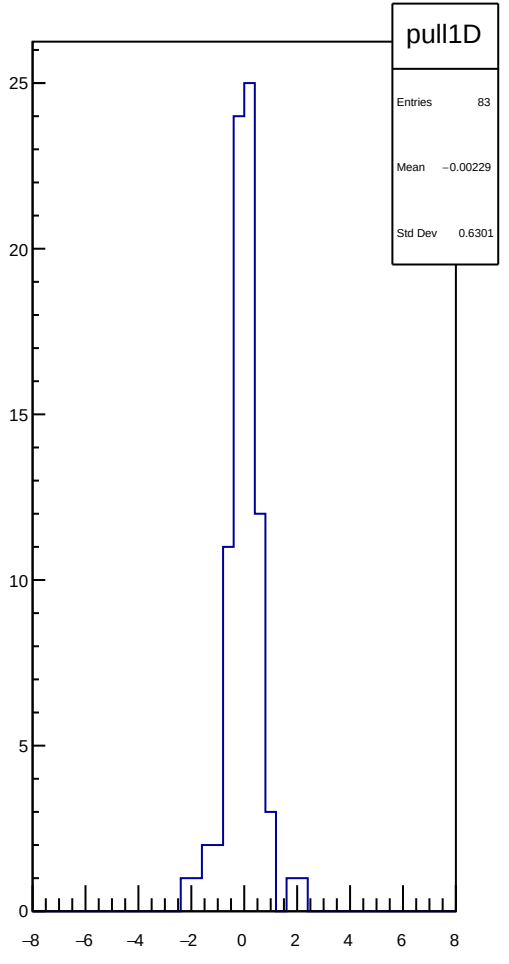

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2.796e+04 / 82
p0 319.7 ± 0.2523
500
450
400
350
300
250

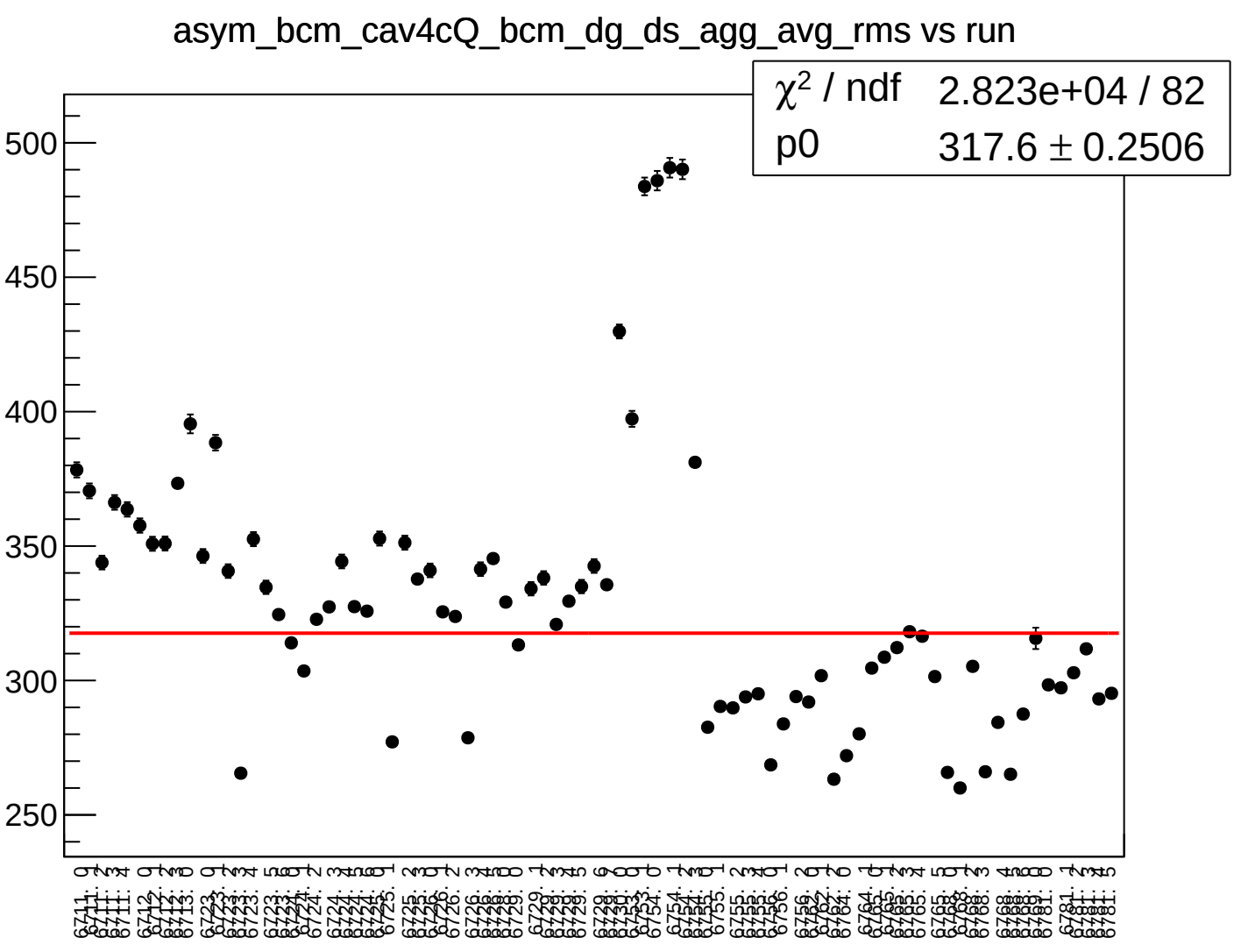

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 71.58 / 82
p0 −33.87 ± 39.04
pull
Entries 83
Mean 206.2
Std Dev 146.8

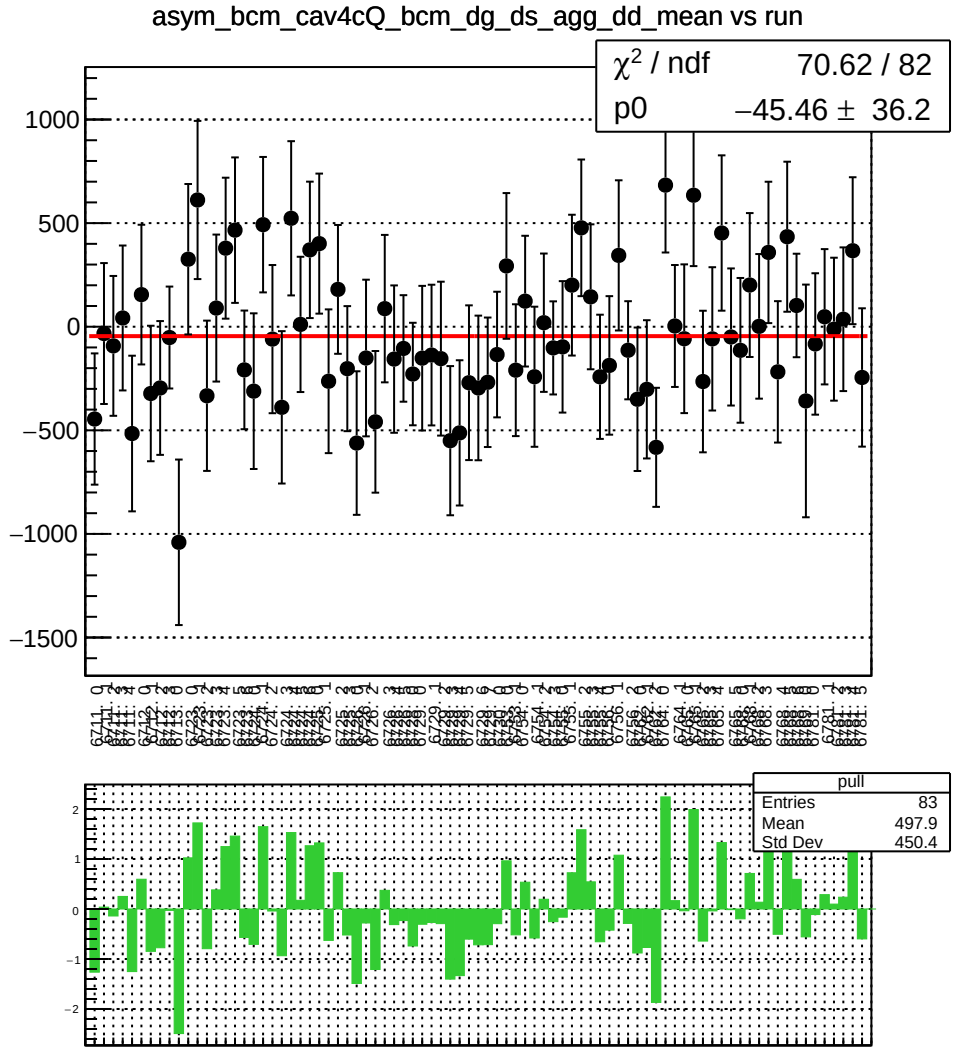

pull1D
Entries 83
Mean 0.01027
Std Dev 0.9286

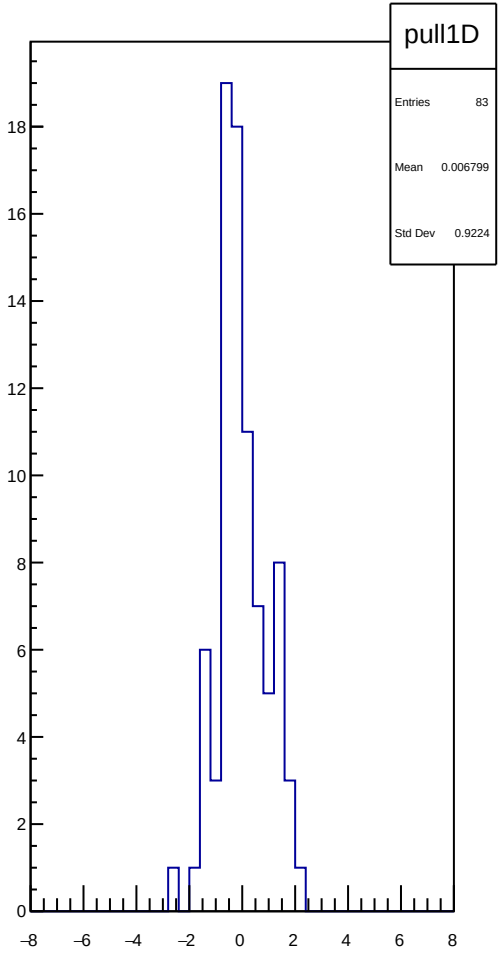

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2704 / 82
p0 35.26 ± 0.02761
39
38
37
36
35
34
33
32
31

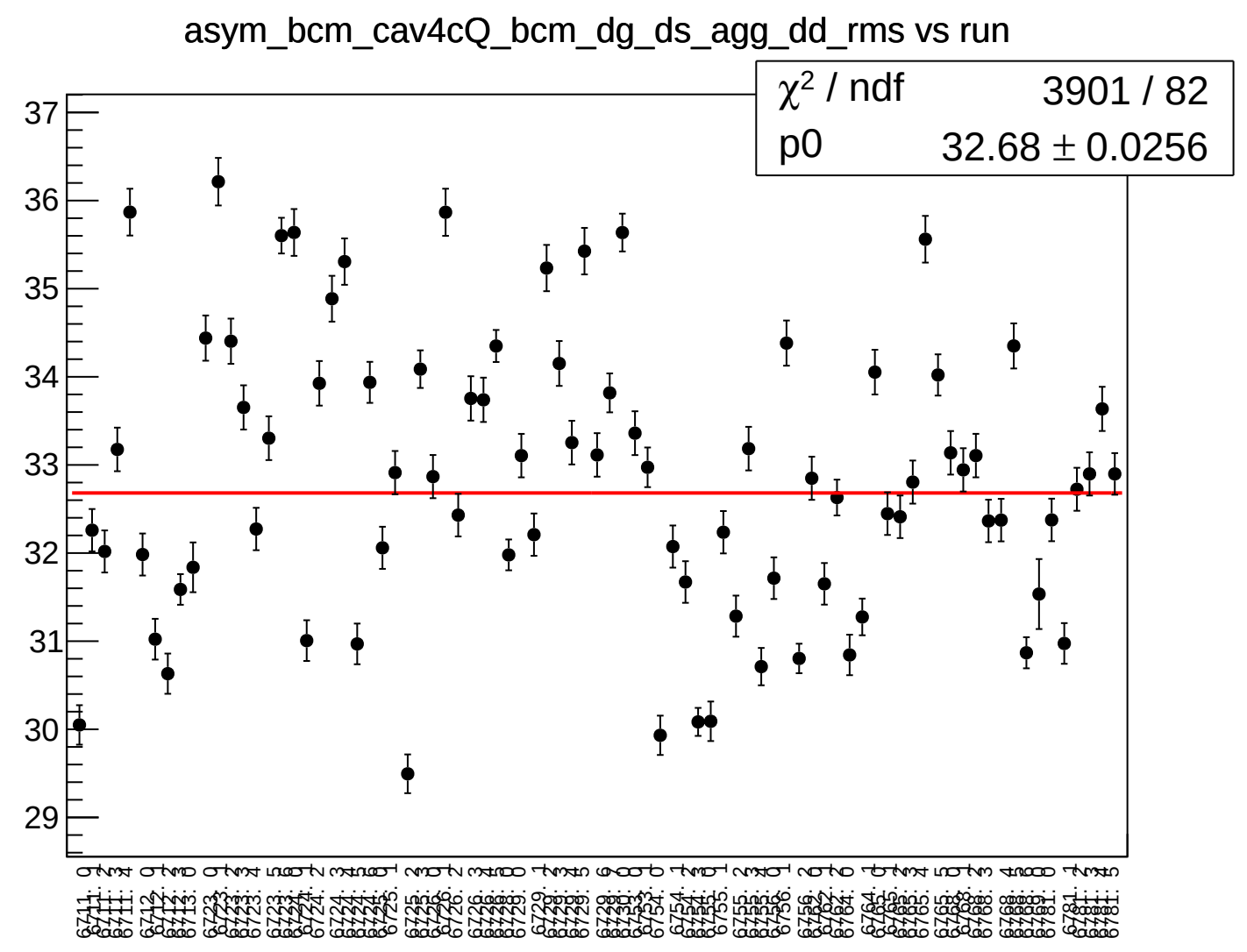

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 32.96 / 82
p0 215.4 ± 354.5
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 198.2
Std Dev 149.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

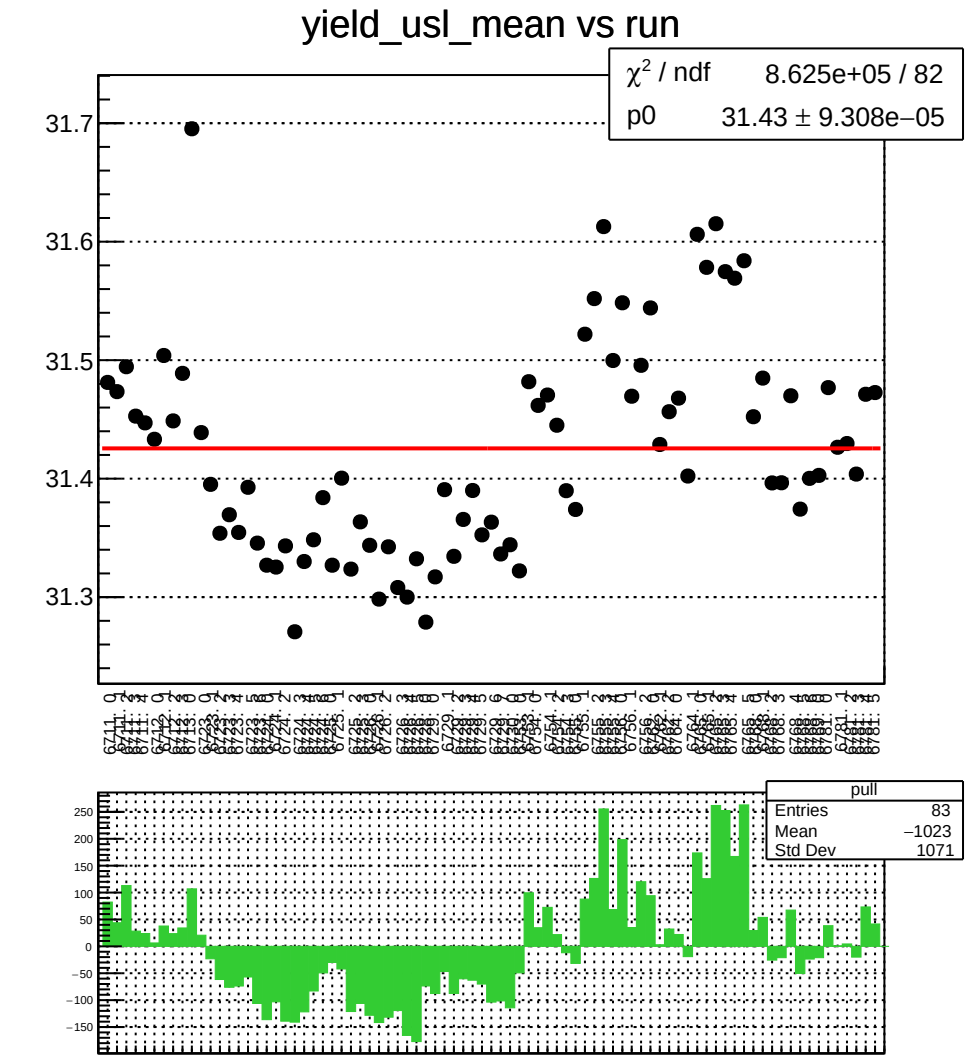

pull1D
Entries 83
Mean −0.00229
Std Dev 0.6301
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

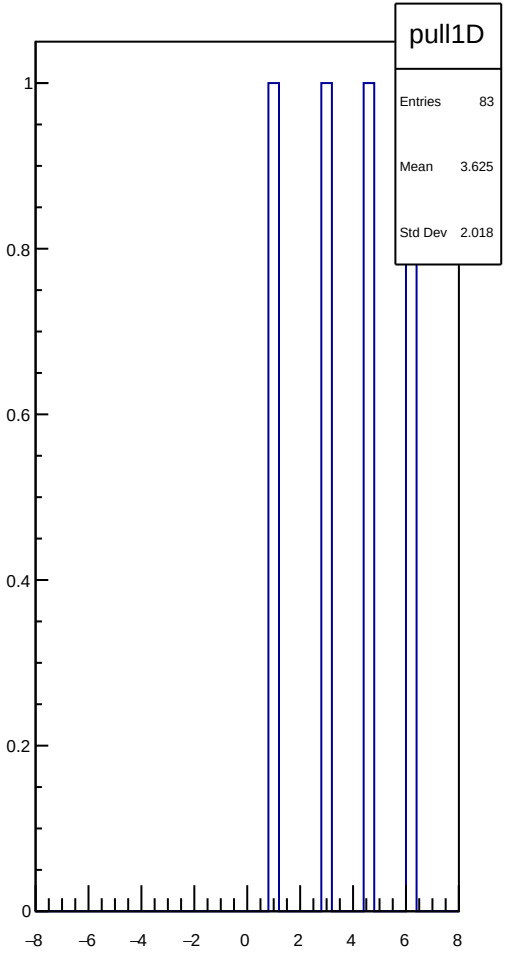

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.823e+04 / 82
p0 317.6 ± 0.2506
500
450
400
350
300
250

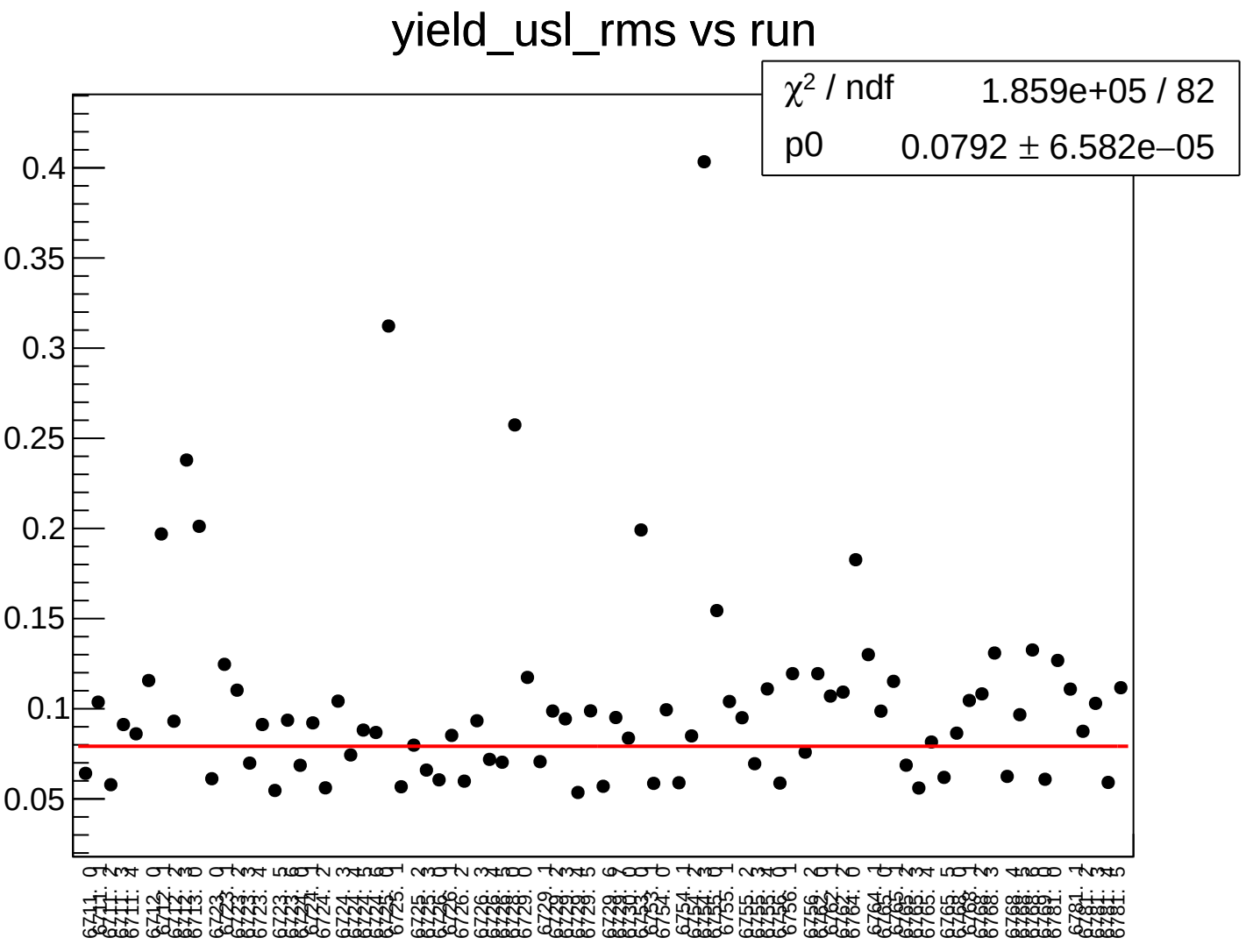

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 70.62 / 82
p0 −45.46 ± 36.2
pull
Entries 83
Mean 497.9
Std Dev 450.4

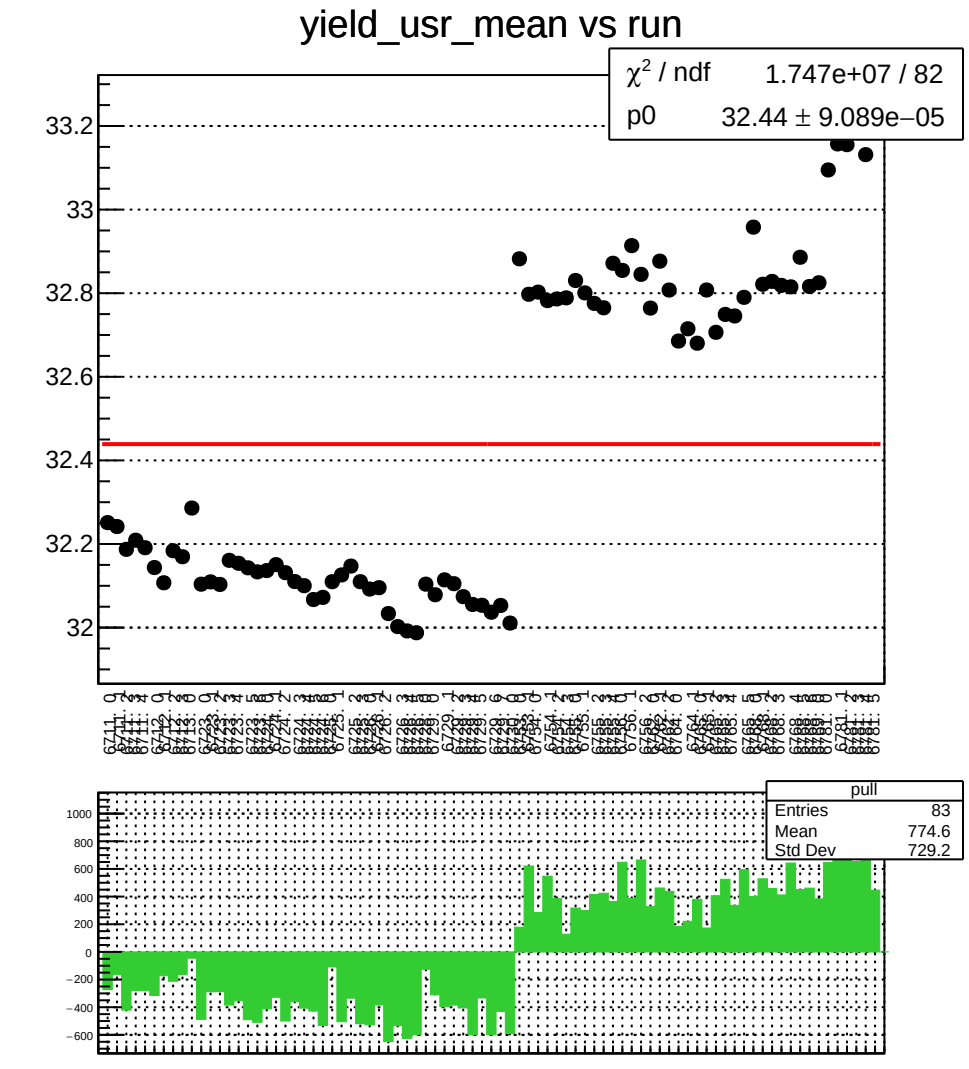

pull1D
Entries 83
Mean 0.006799
Std Dev 0.9224

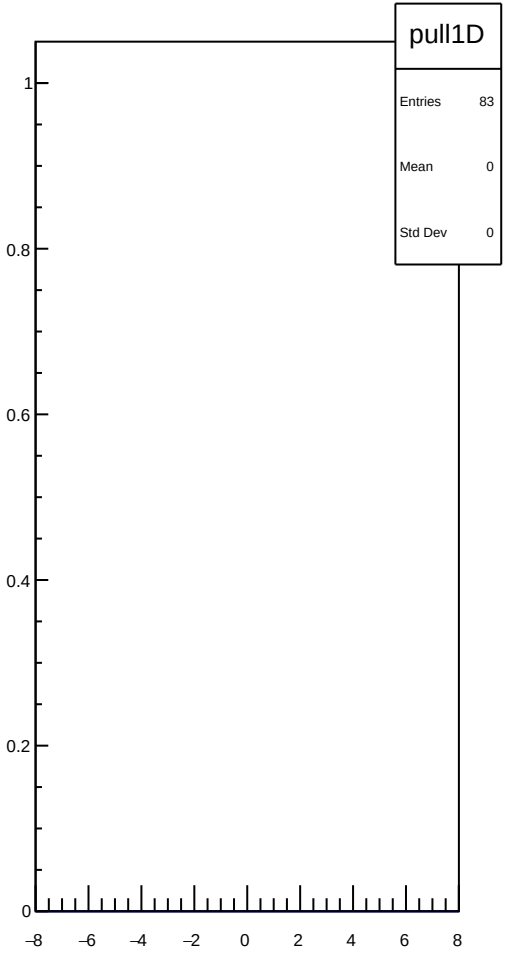

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3901 / 82
p0 32.68 ± 0.0256
37
36
35
34
33
32
31
30
29

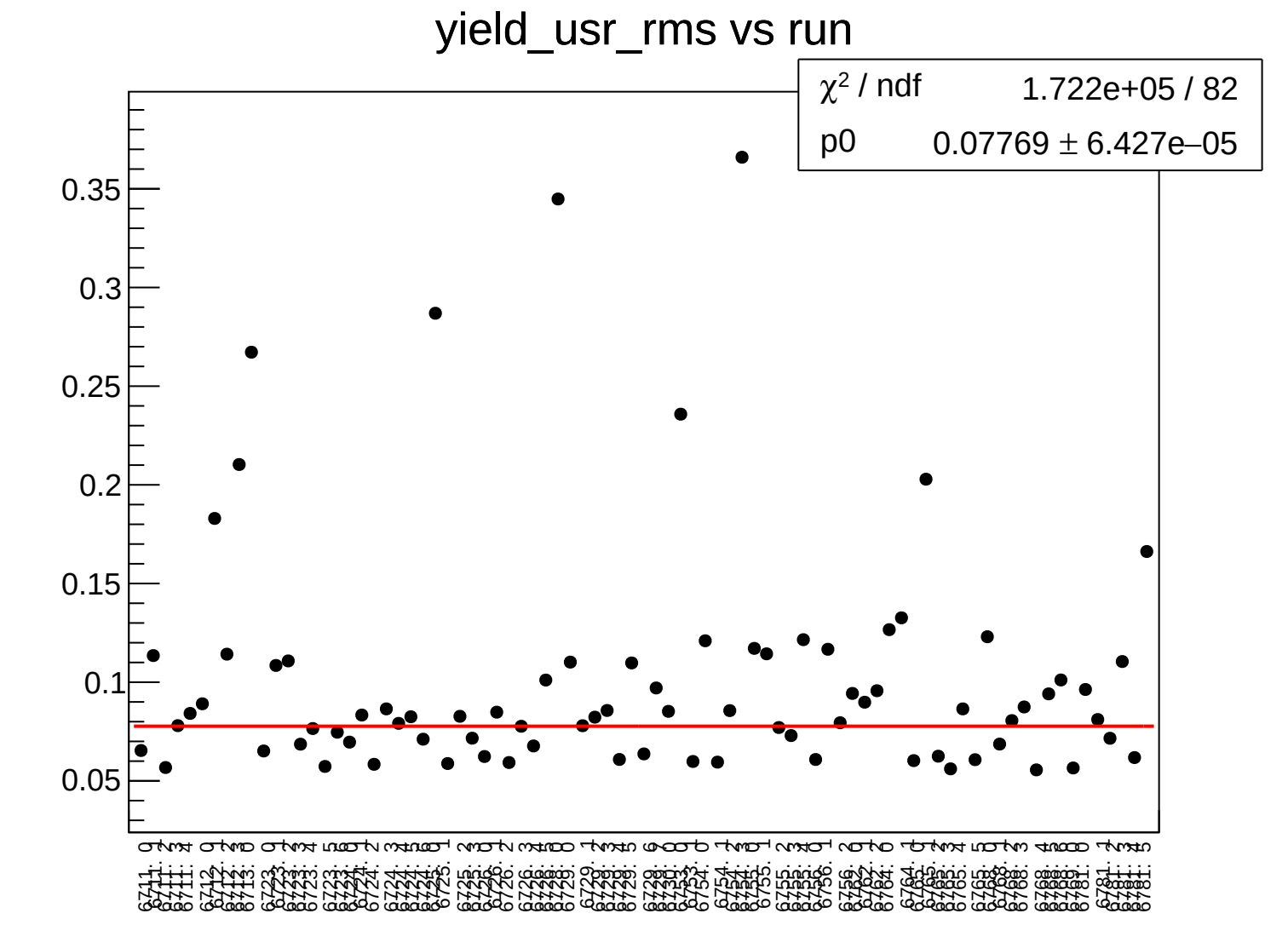

yield_usl_mean vs run
χ² / ndf 8.625e+05 / 82
p0 31.43 ± 9.308e−05
31.7
31.6
31.5
31.4
31.3
pull
Entries 83
Mean −1023
Std Dev 1071
250
200
150
100
50
0
−50
−100
−150

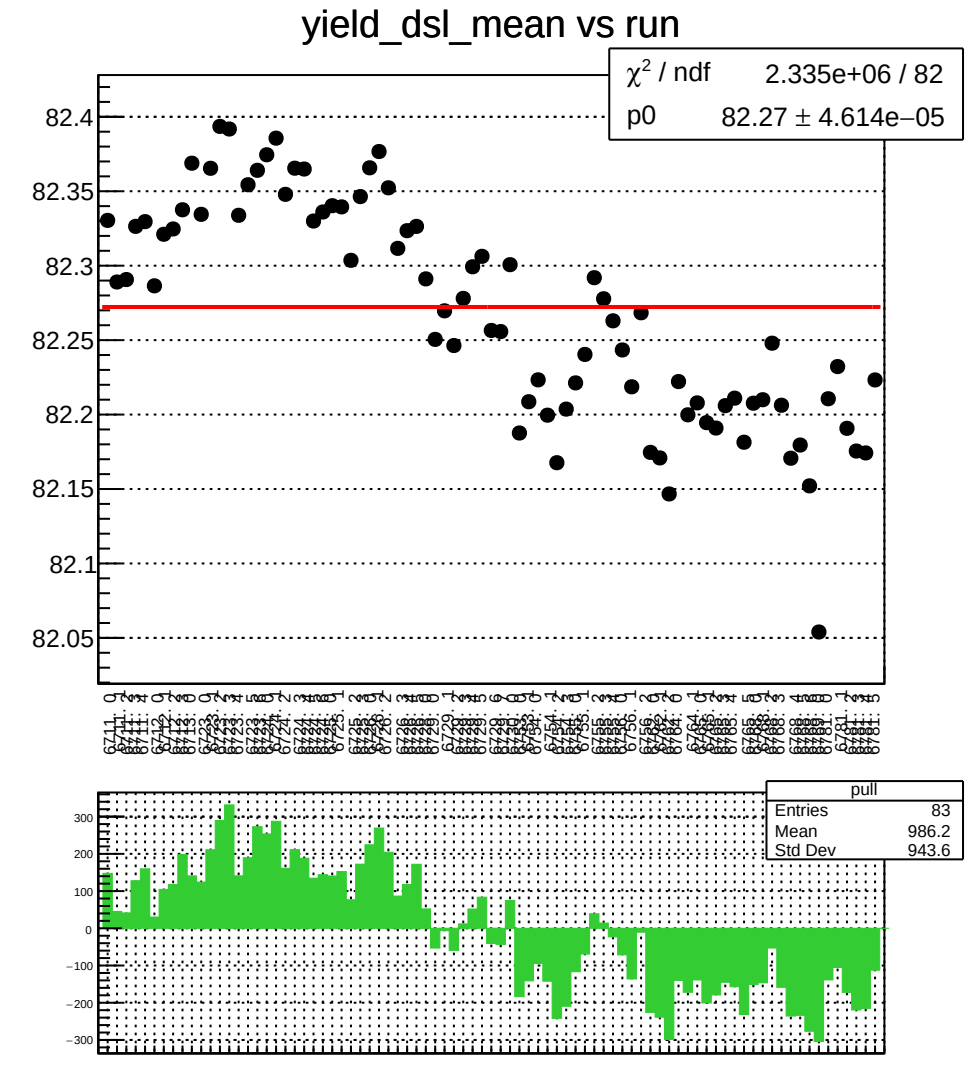

pull1D
Entries 83
Mean 3.625
Std Dev 2.018
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

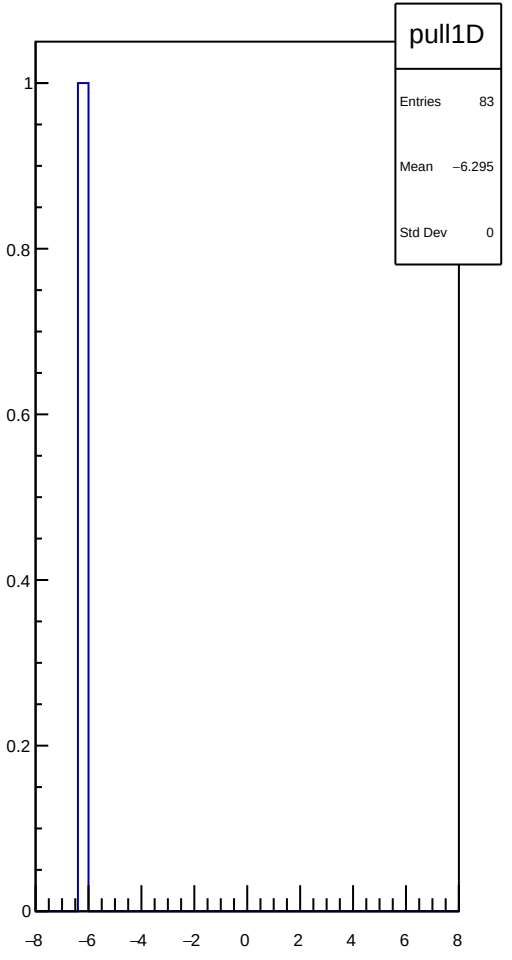

yield_usl_rms vs run
χ² / ndf 1.859e+05 / 82
p0 0.0792 ± 6.582e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

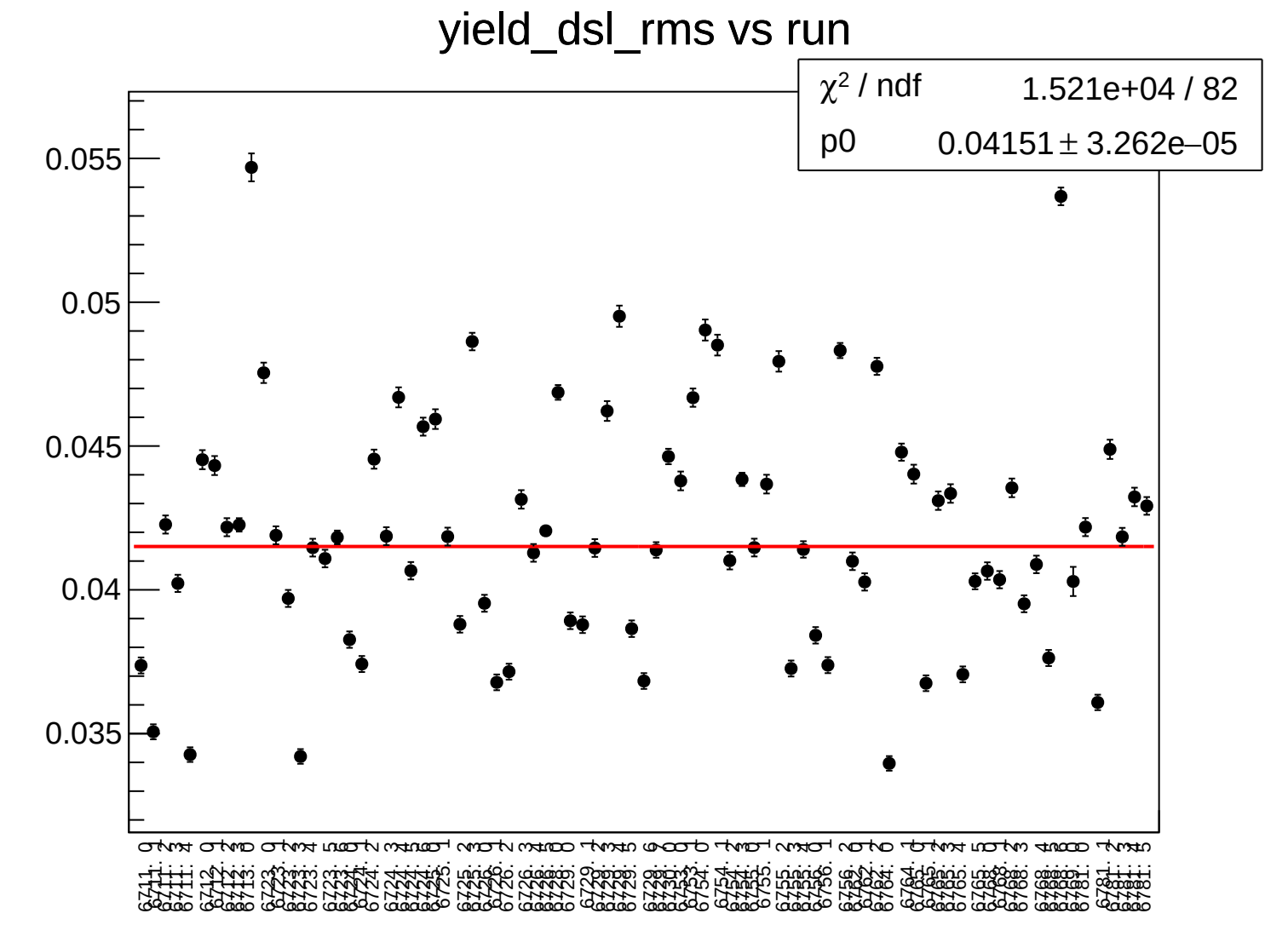

yield_usr_mean vs run
χ² / ndf 1.747e+07 / 82
p0 32.44 ± 9.089e−05
33.2
33
32.8
32.6
32.4
32.2
32
pull
Entries 83
Mean 774.6
Std Dev 729.2
1000
800
600
400
200
0
−200
−400
−600

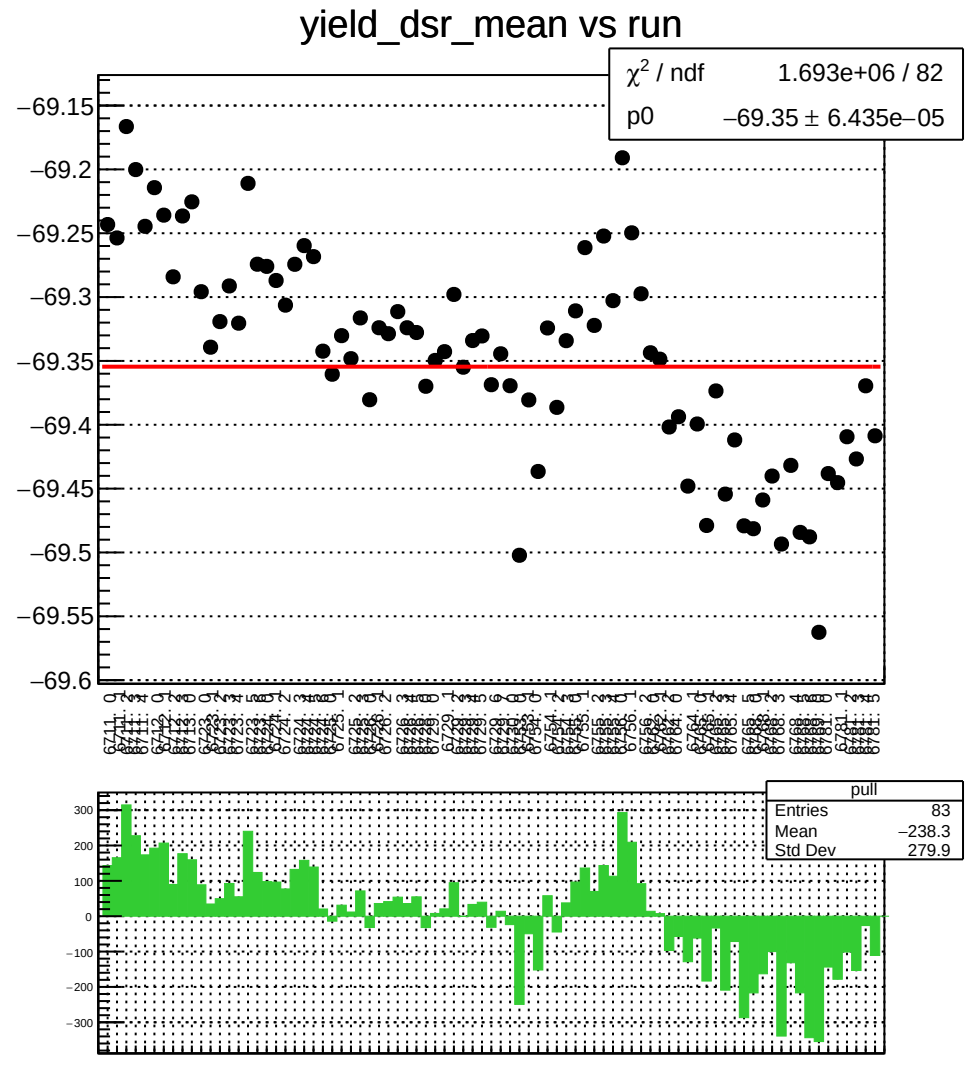

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

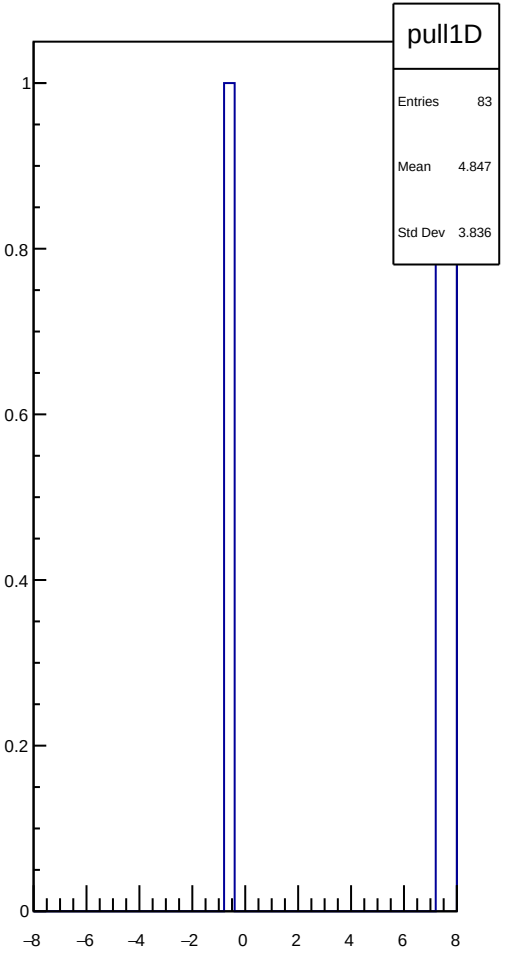

yield_usr_rms vs run
χ² / ndf 1.722e+05 / 82
p0 0.07769 ± 6.427e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

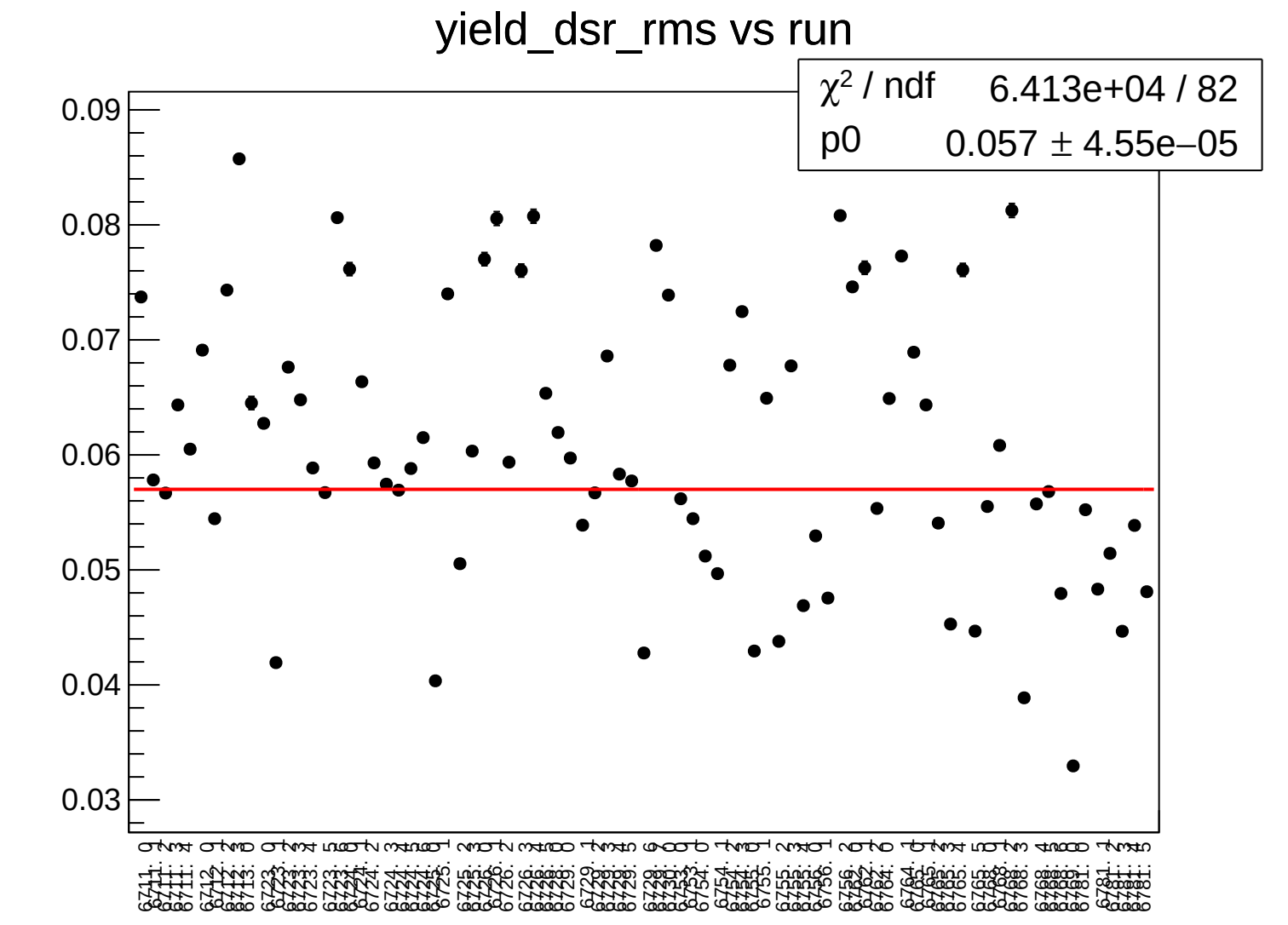

yield_dsl_mean vs run
χ² / ndf 2.335e+06 / 82
p0 82.27 ± 4.614e−05
82.4
82.35
82.3
82.25
82.2
82.15
82.1
82.05
pull
Entries 83
Mean 986.2
Std Dev 943.6
300
200
100
0
−100
−200
−300

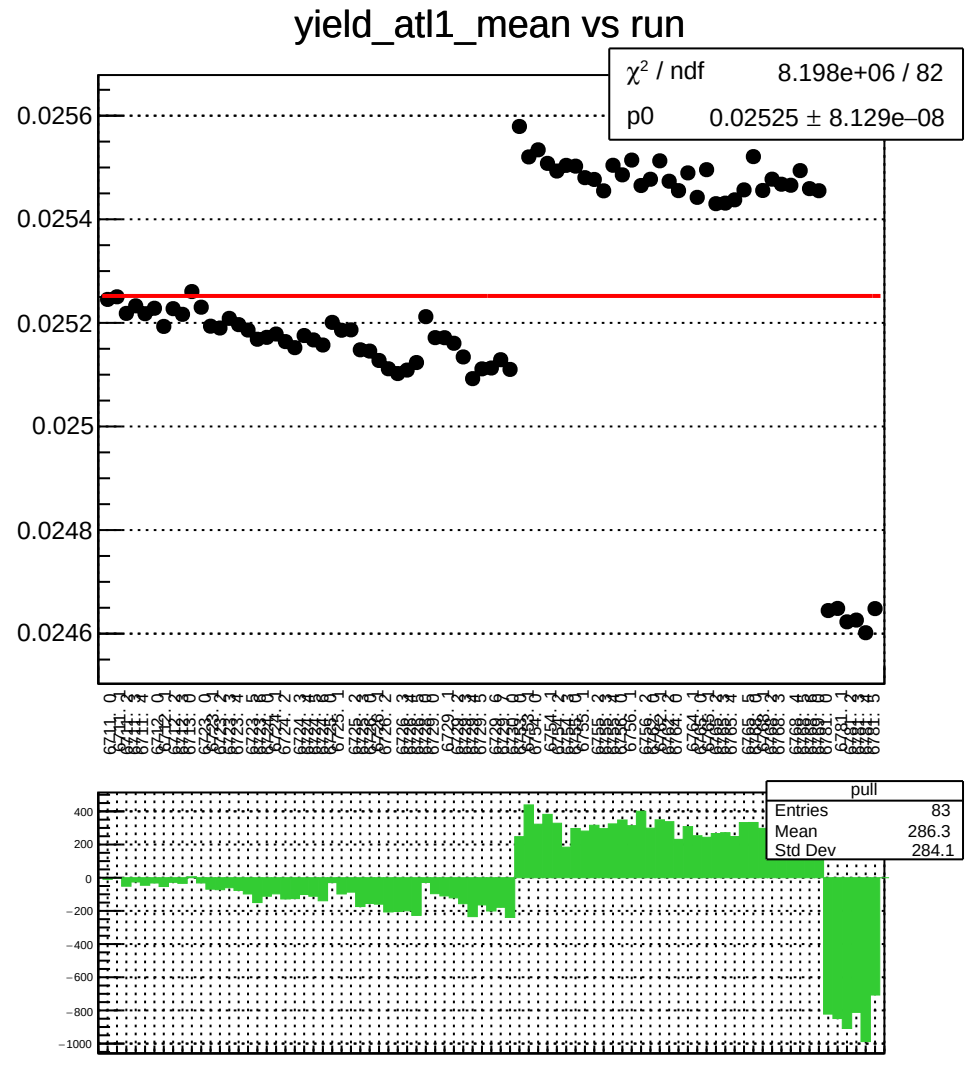

pull1D
Entries 83
Mean −6.295
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

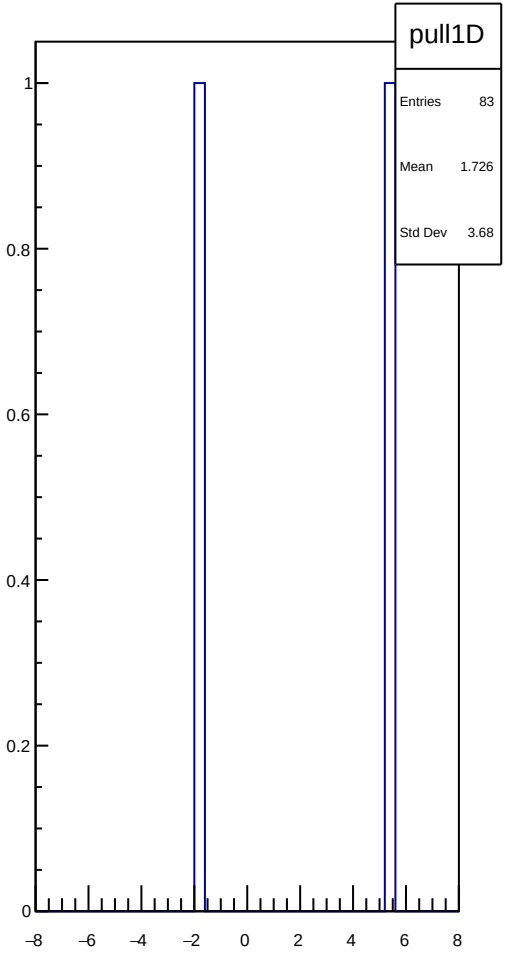

yield_dsl_rms vs run
χ² / ndf 1.521e+04 / 82
p0 0.04151 ± 3.262e−05
0.055
0.05
0.045
0.04
0.035

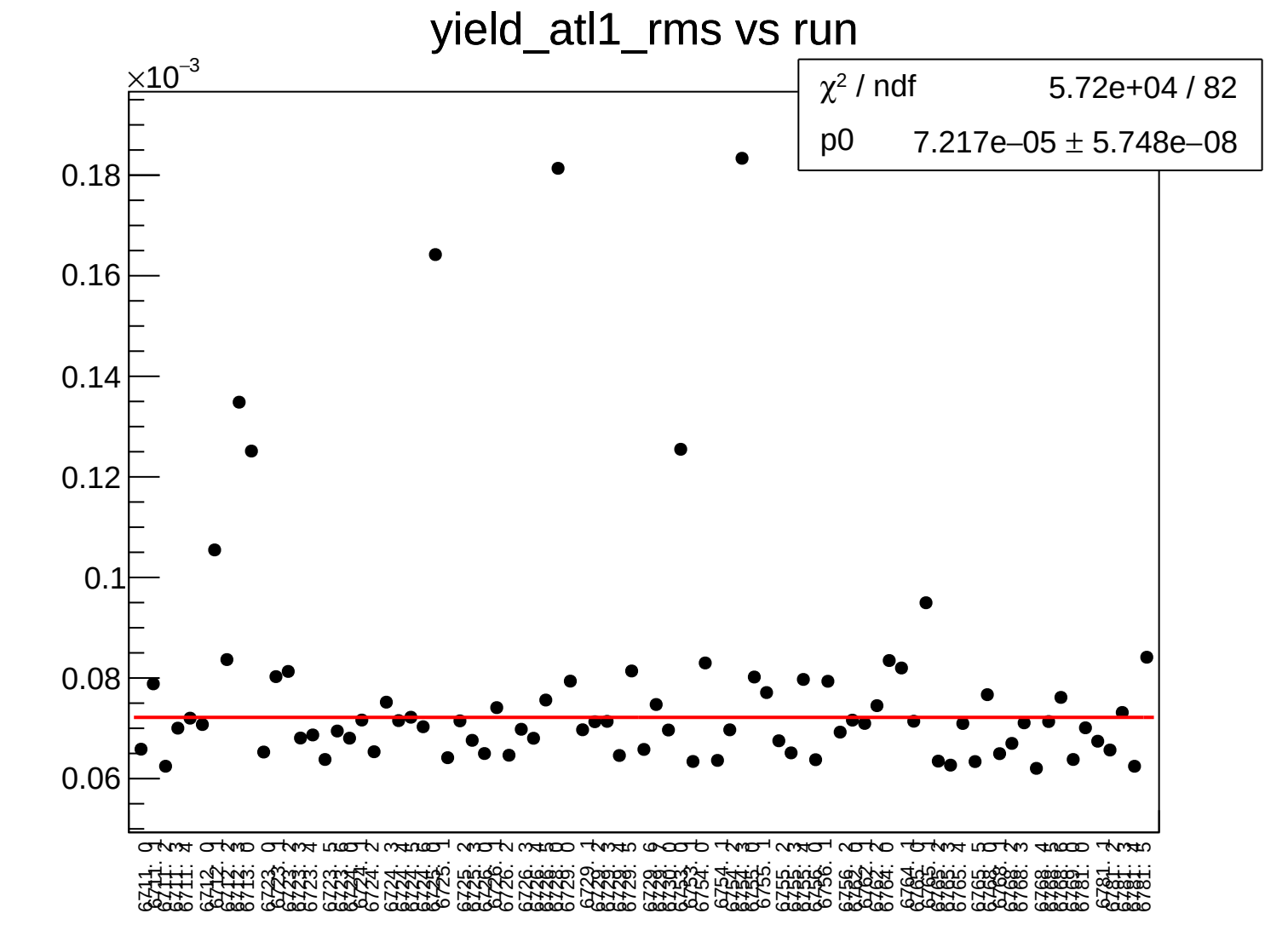

yield_dsr_mean vs run
χ² / ndf 1.693e+06 / 82
p0 −69.35 ± 6.435e−05
−69.15
−69.2
−69.25
−69.3
−69.35
−69.4
−69.45
−69.5
−69.55
−69.6
pull
Entries 83
Mean −238.3
Std Dev 279.9
300
200
100
0
−100
−200
−300

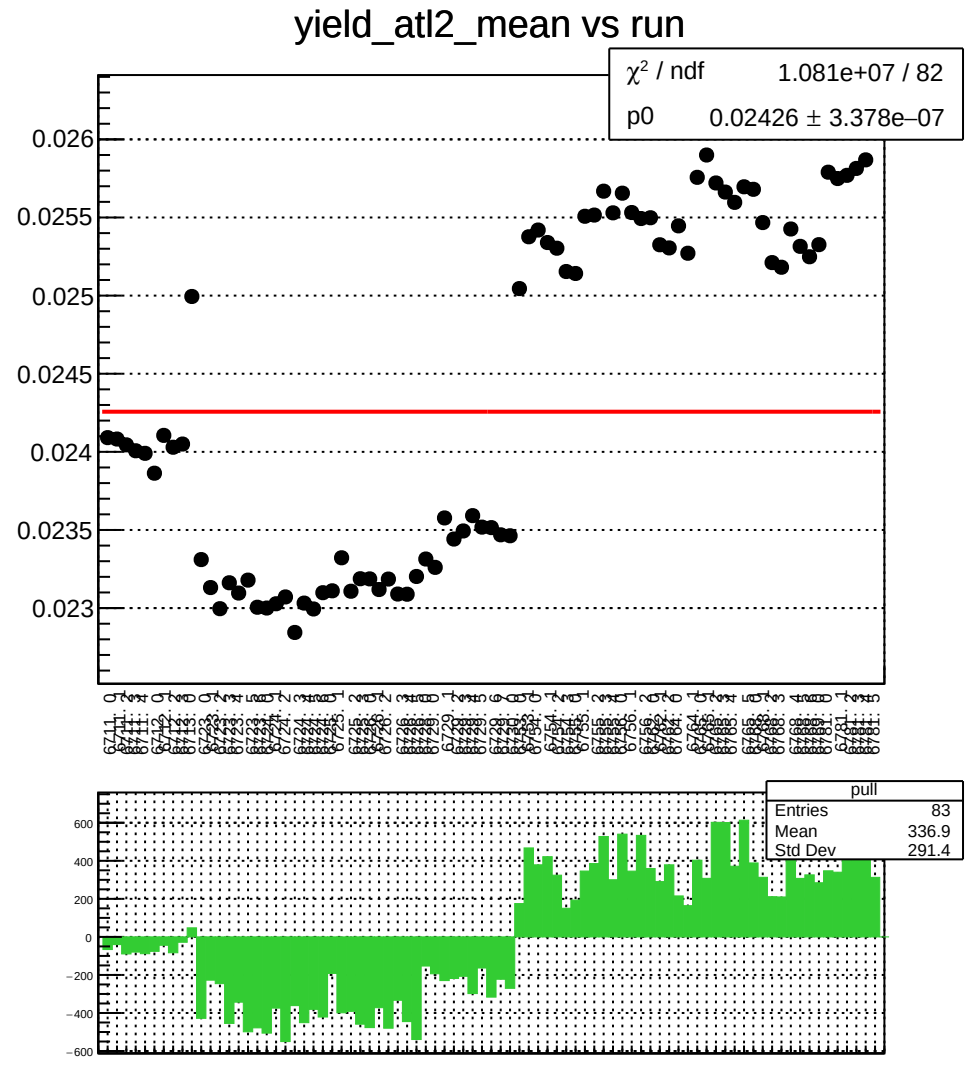

pull1D
Entries 83
Mean 4.847
Std Dev 3.836
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

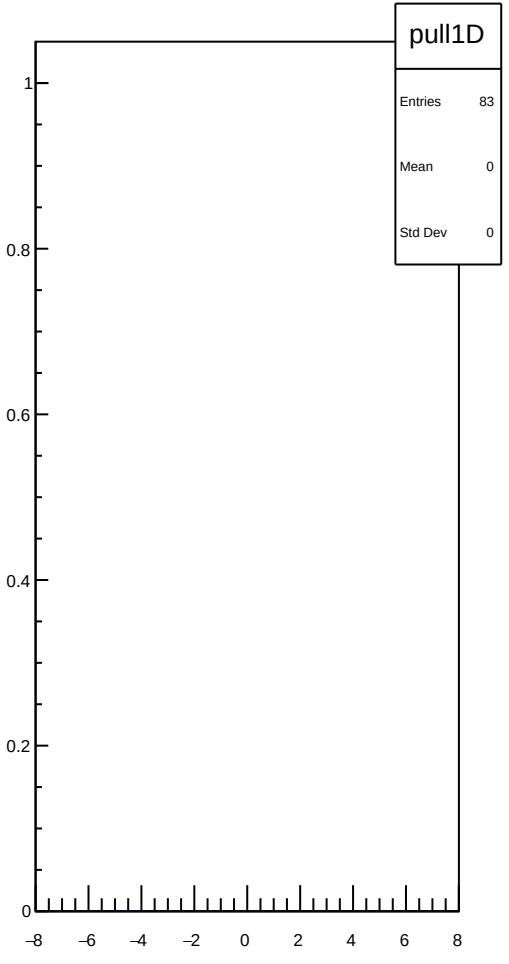

yield_dsr_rms vs run
χ^2 / ndf 6.413e+04 / 82
p0 0.057 ± 4.55e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03

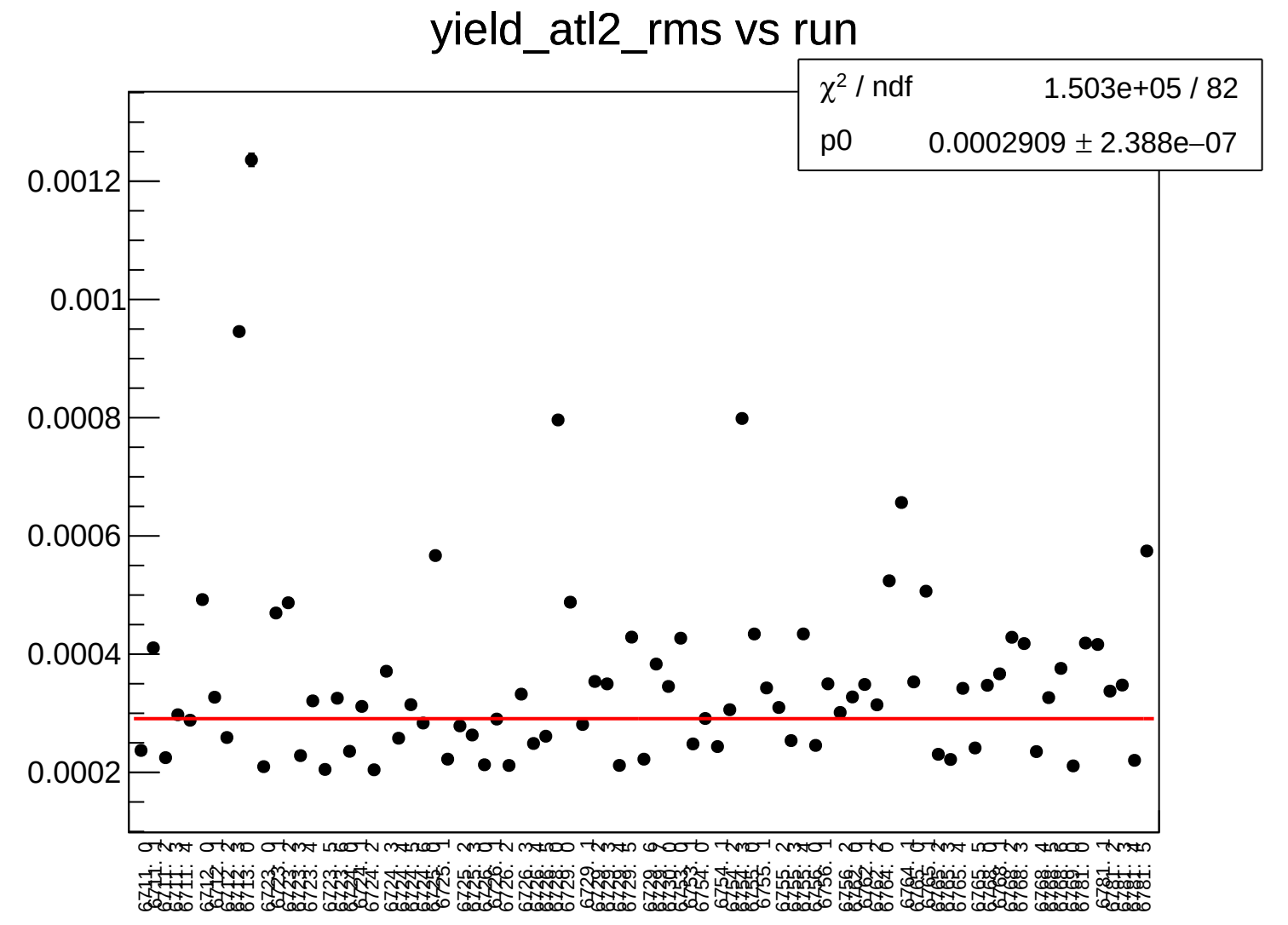

yield_atl1_mean vs run
χ² / ndf 8.198e+06 / 82
p0 0.02525 ± 8.129e−08
0.0256
0.0254
0.0252
0.025
0.0248
0.0246
pull
Entries 83
Mean 286.3
Std Dev 284.1
400
200
0
−200
−400
−600
−800
−1000

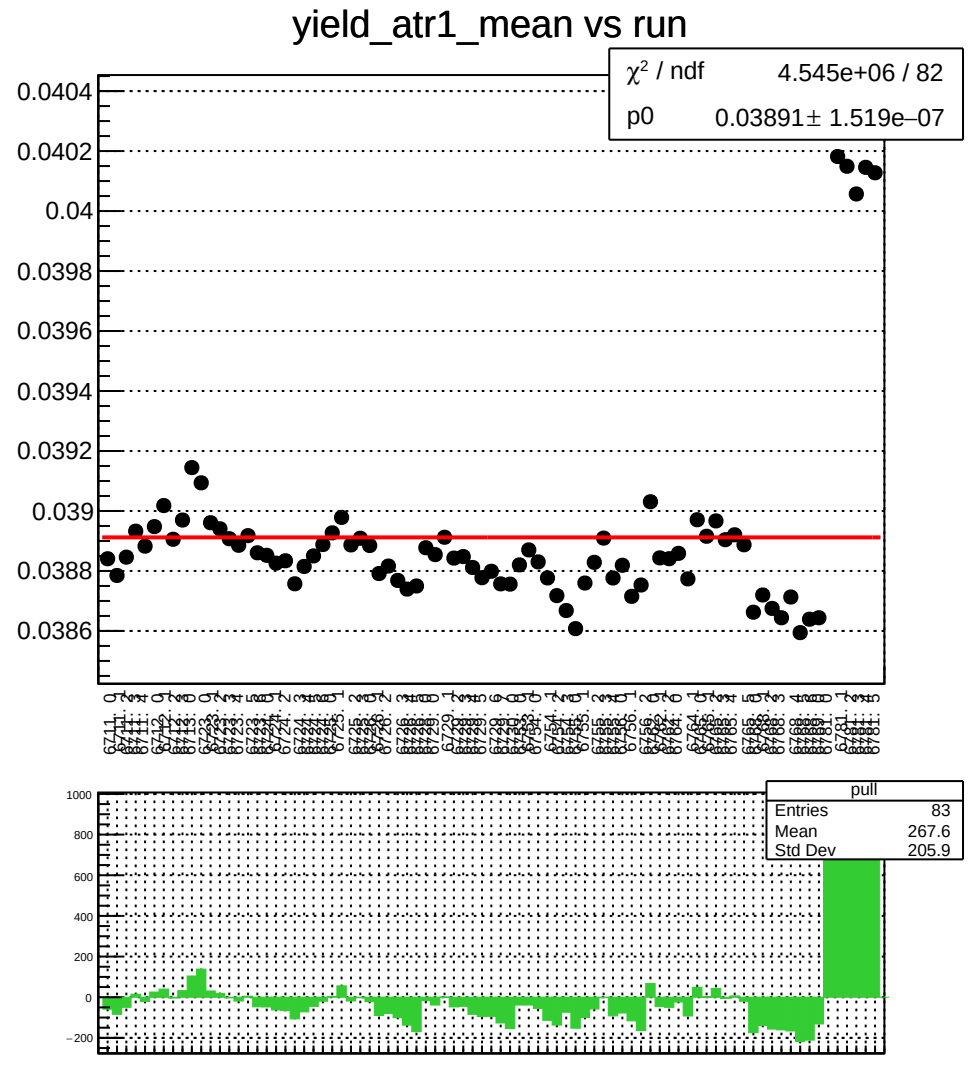

pull1D
Entries 83
Mean 1.726
Std Dev 3.68
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

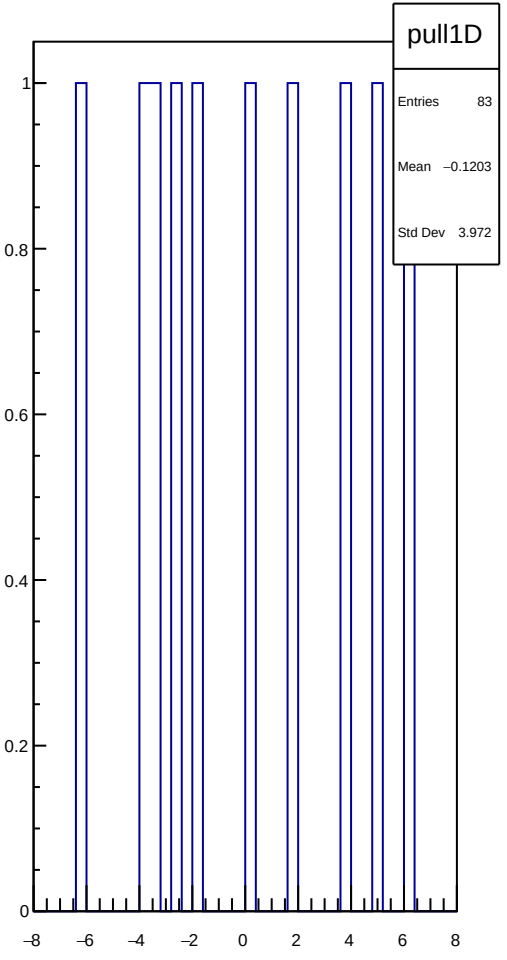

yield_atl1_rms vs run
×10⁻³
χ² / ndf 5.72e+04 / 82
p0 7.217e−05 ± 5.748e−08
0.18
0.16
0.14
0.12
0.1
0.08
0.06

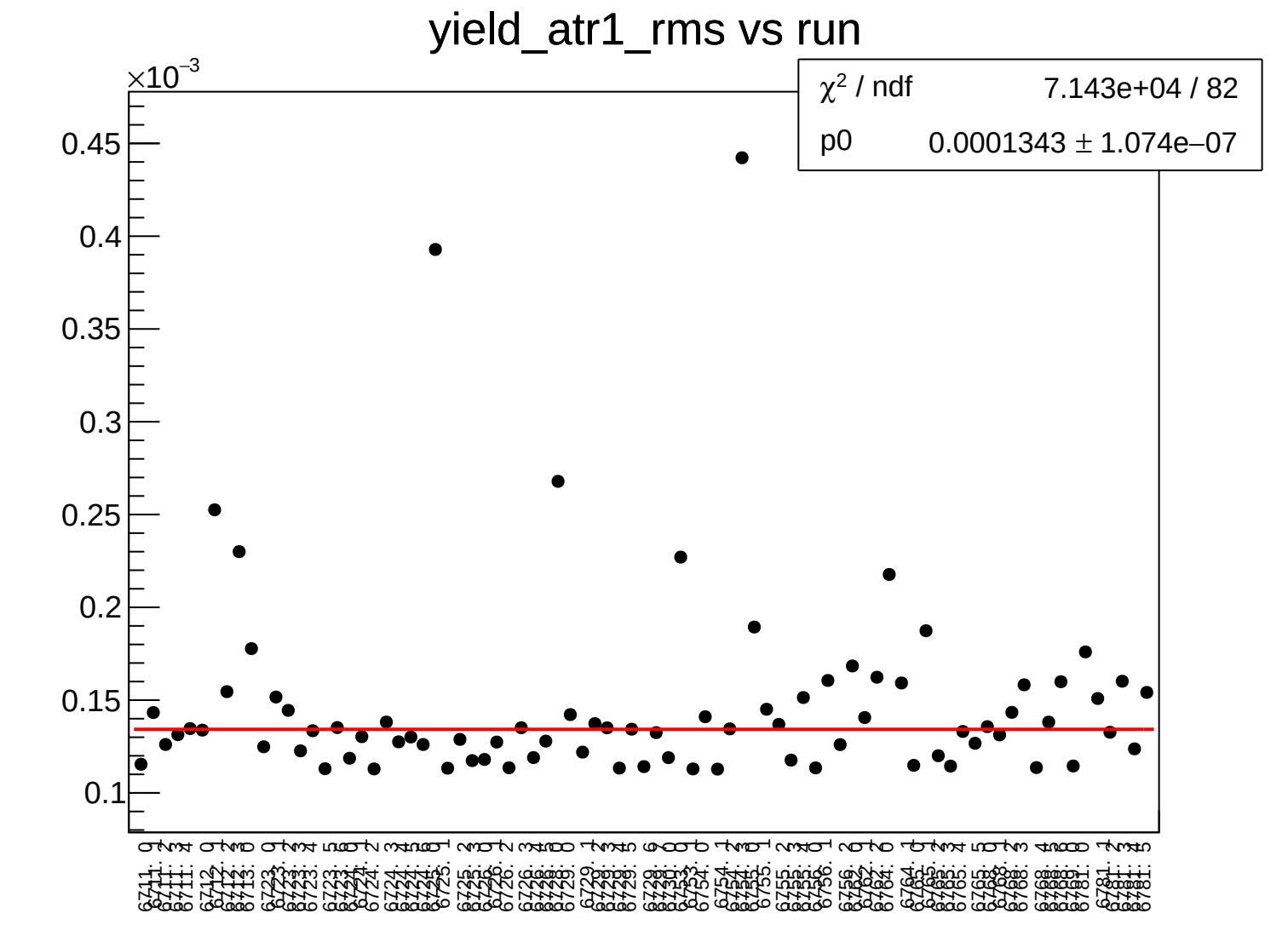

yield_atl2_mean vs run
χ² / ndf 1.081e+07 / 82
p0 0.02426 ± 3.378e−07
0.026
0.0255
0.025
0.0245
0.024
0.0235
0.023
pull
Entries 83
Mean 336.9
Std Dev 291.4
600
400
200
0
−200
−400
−600

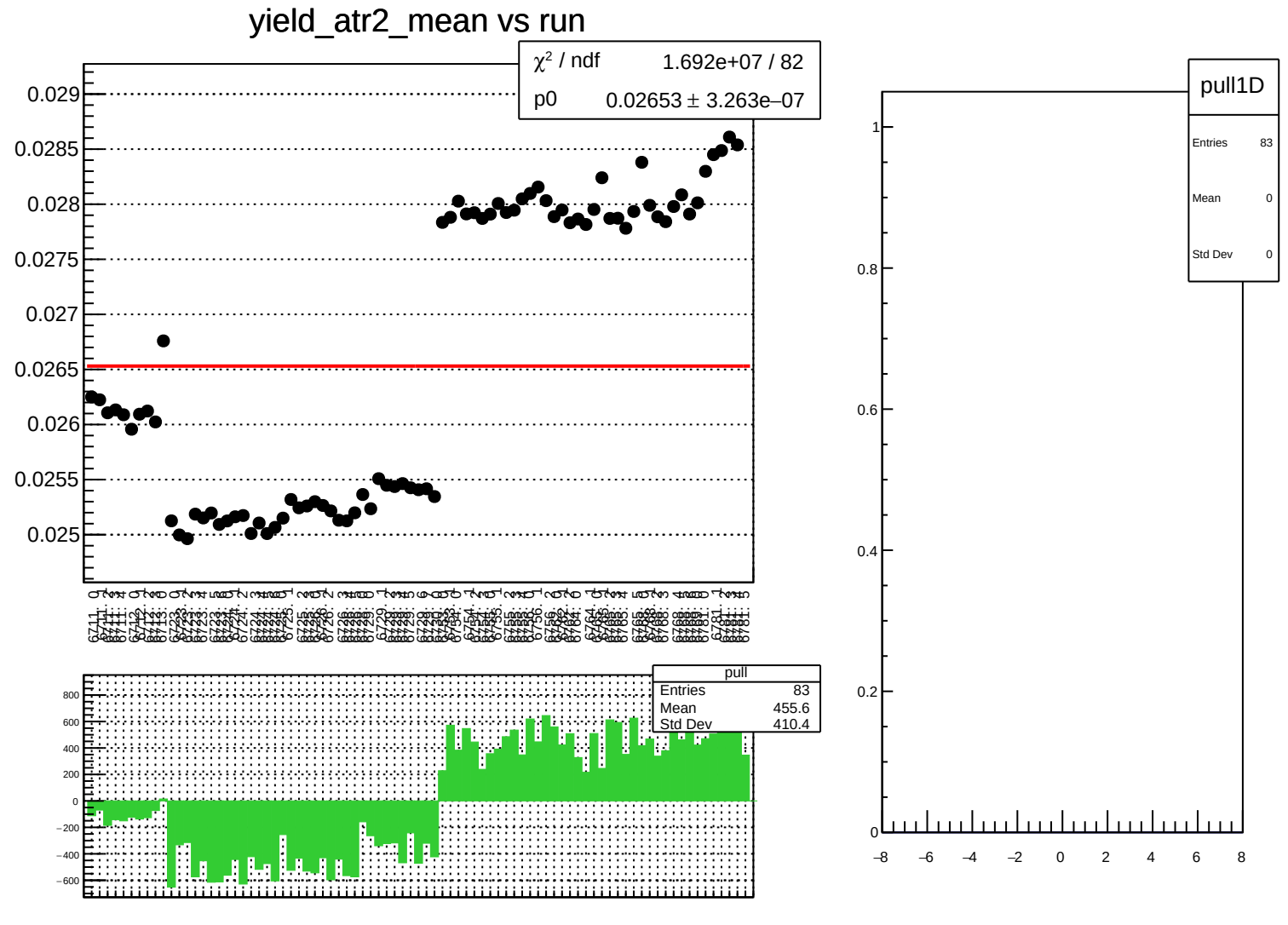

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

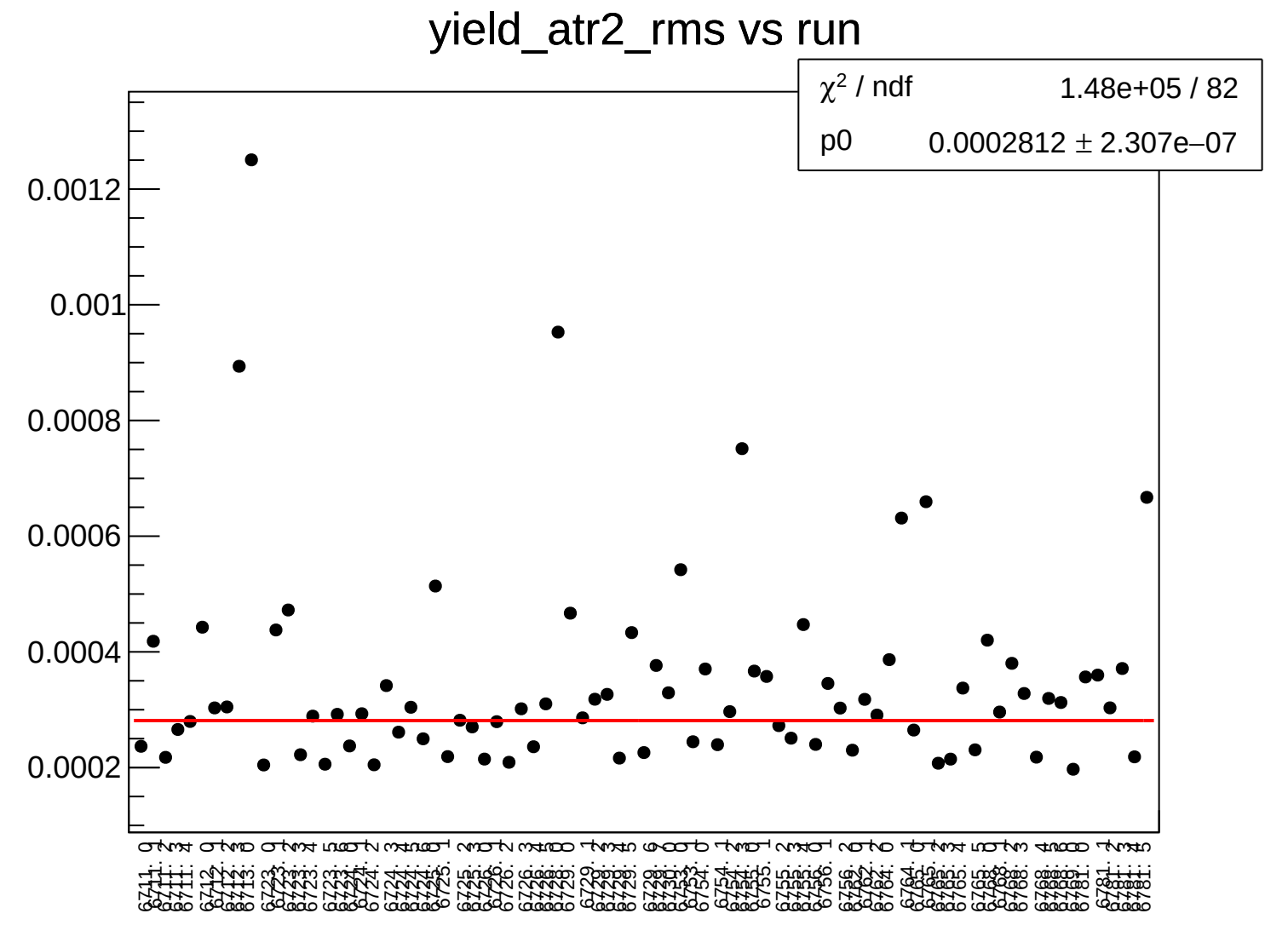

yield_atl2_rms vs run
χ² / ndf 1.503e+05 / 82
p0 0.0002909 ± 2.388e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

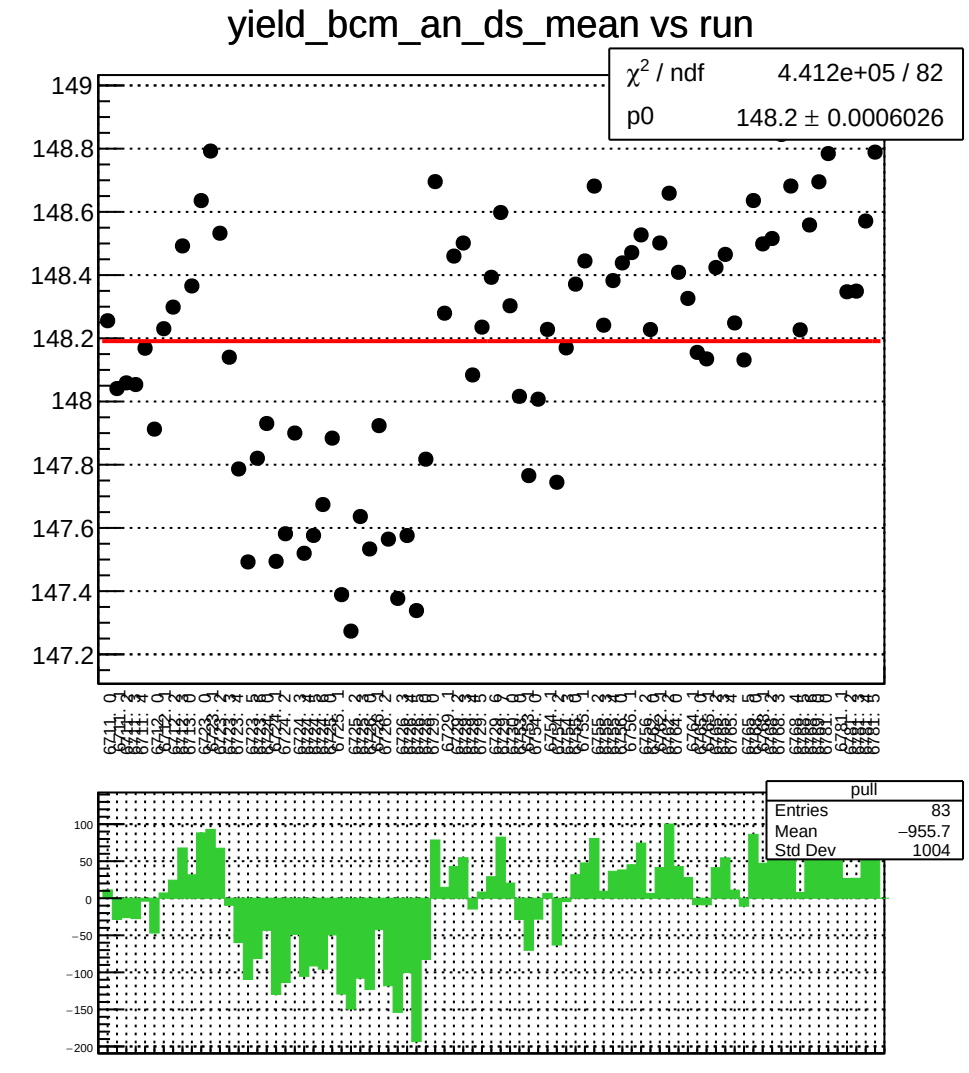

yield_atr1_mean vs run
χ² / ndf 4.545e+06 / 82
p0 0.03891± 1.519e–07
0.0404
0.0402
0.04
0.0398
0.0396
0.0394
0.0392
0.039
0.0388
0.0386
pull
Entries 83
Mean 267.6
Std Dev 205.9
1000
800
600
400
200
0
–200

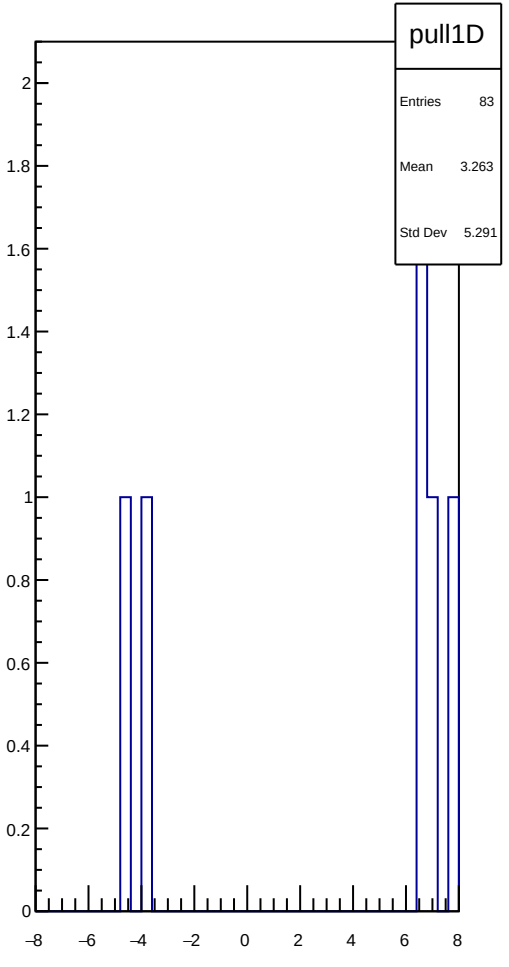

pull1D
Entries 83
Mean –0.1203
Std Dev 3.972
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

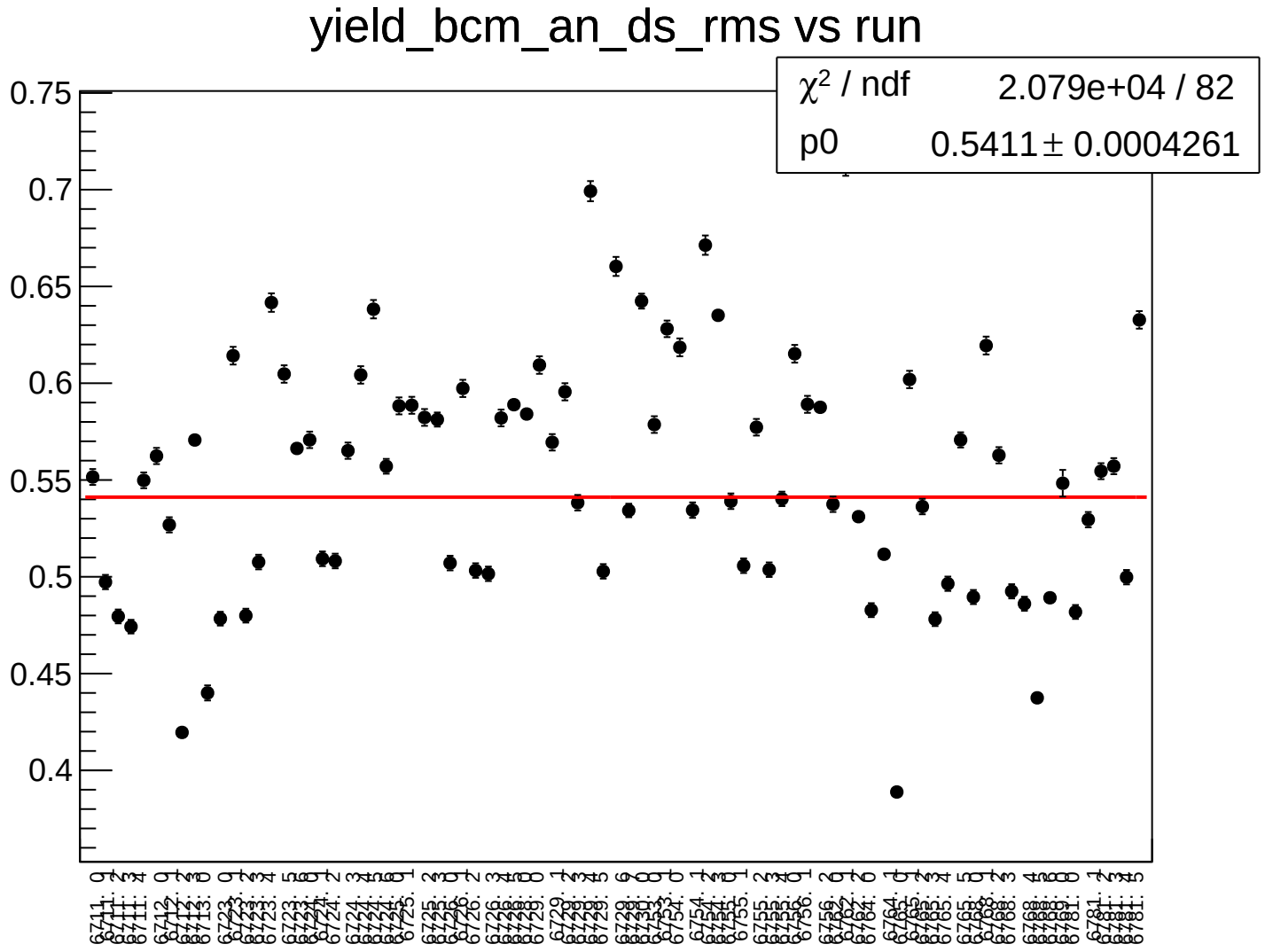

yield_atr1_rms vs run
×10⁻³
χ² / ndf 7.143e+04 / 82
p0 0.0001343 ± 1.074e−07
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

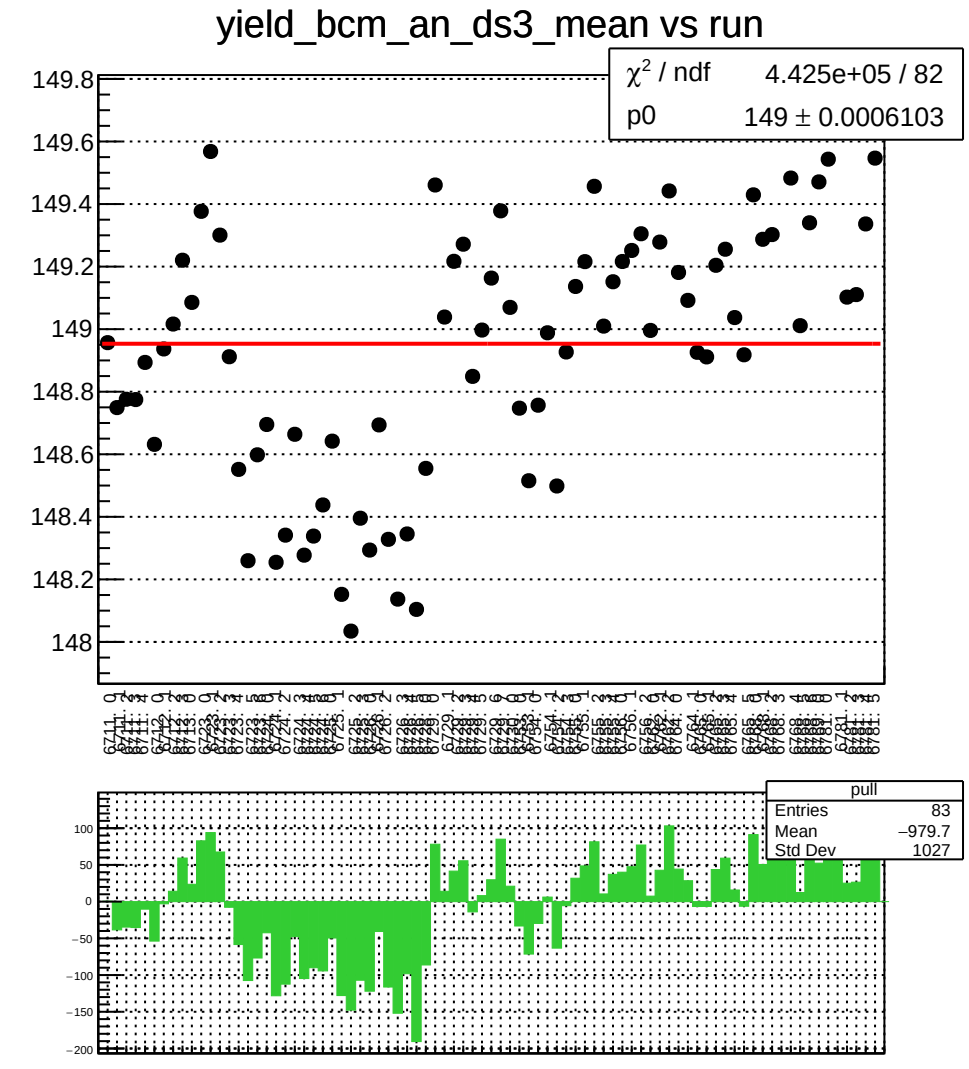

yield_atr2_mean vs run
χ² / ndf 1.692e+07 / 82
p0 0.02653 ± 3.263e–07
0.029
0.0285
0.028
0.0275
0.027
0.0265
0.026
0.0255
0.025
pull
Entries 83
Mean 455.6
Std Dev 410.4
800
600
400
200
0
–200
–400
–600
pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

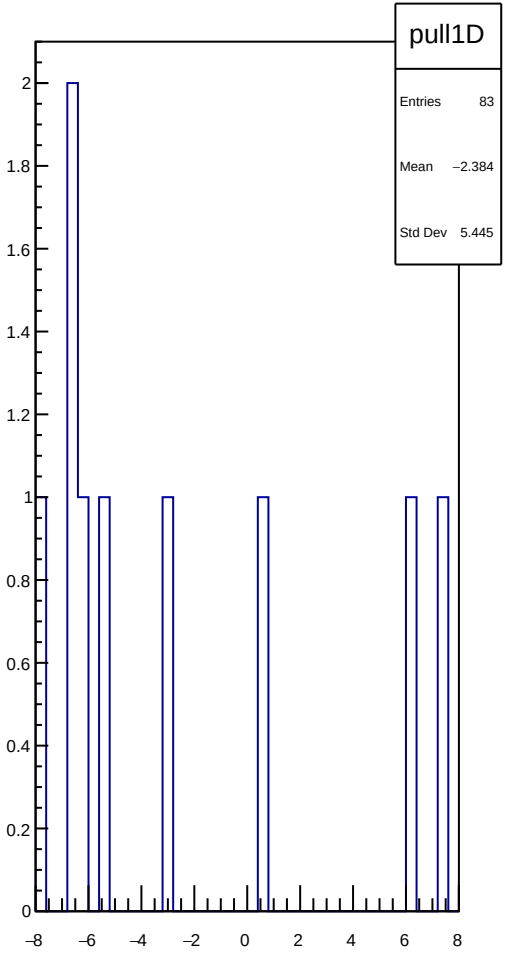

yield_atr2_rms vs run
χ² / ndf 1.48e+05 / 82
p0 0.0002812 ± 2.307e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

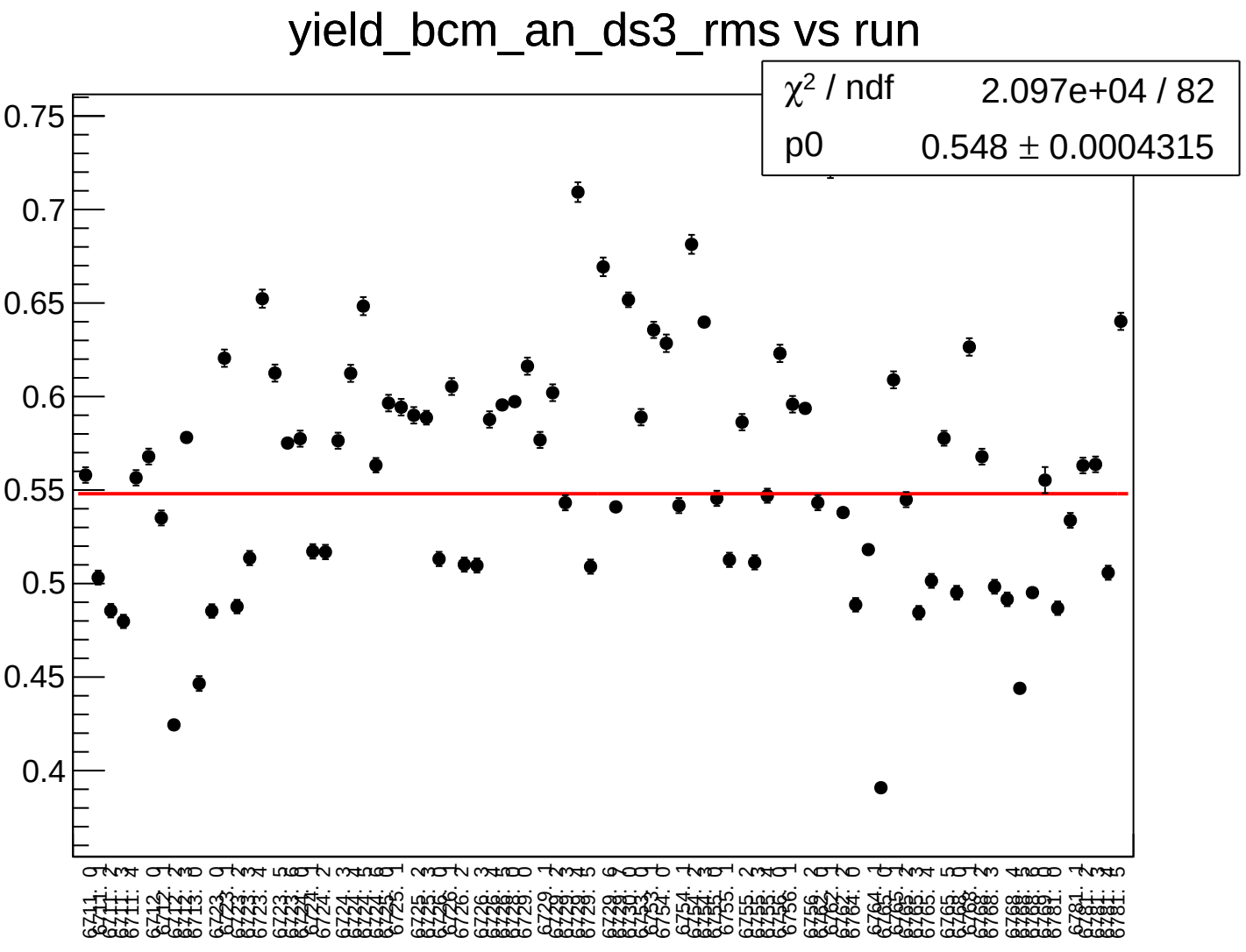

yield_bcm_an_ds_mean vs run
χ² / ndf 4.412e+05 / 82
p0 148.2 ± 0.0006026
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
147.2
pull
Entries 83
Mean −955.7
Std Dev 1004
100
50
0
−50
−100
−150
−200

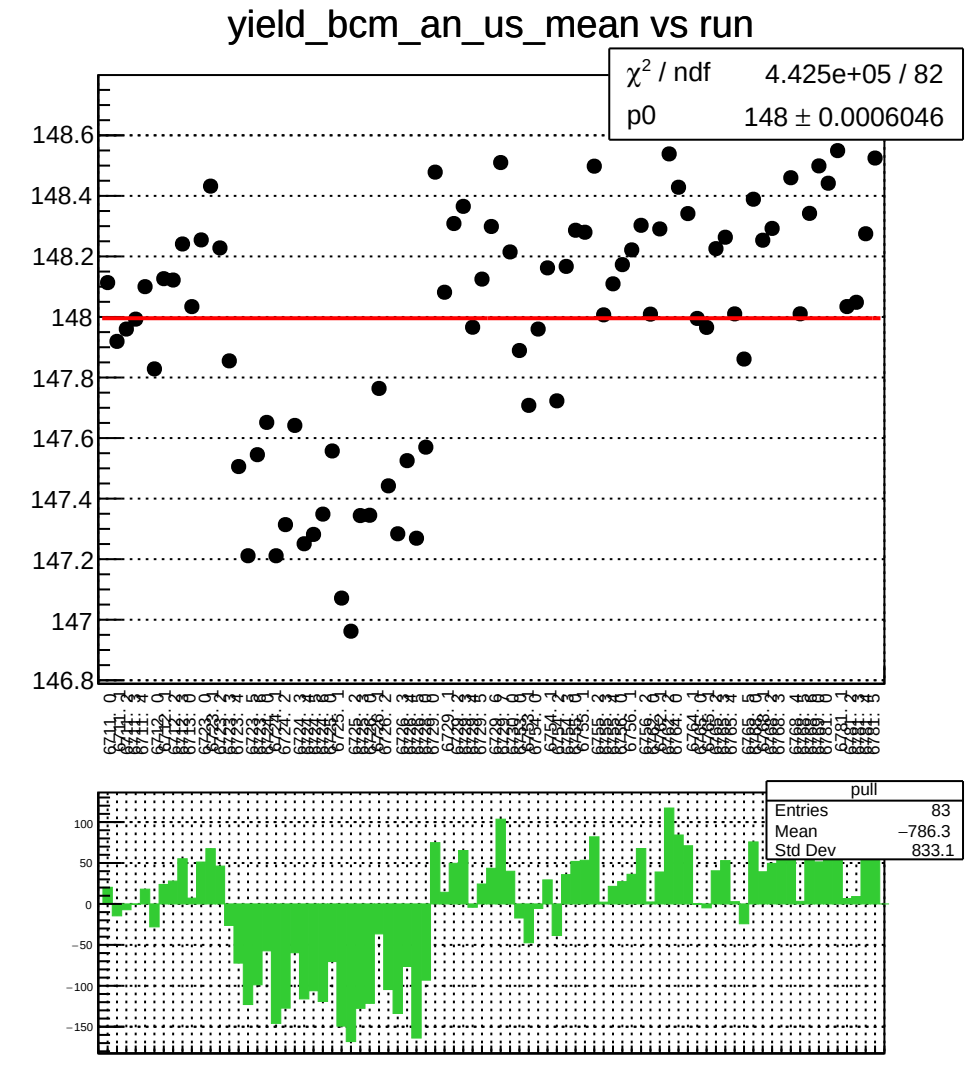

pull1D
Entries 83
Mean 3.263
Std Dev 5.291
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

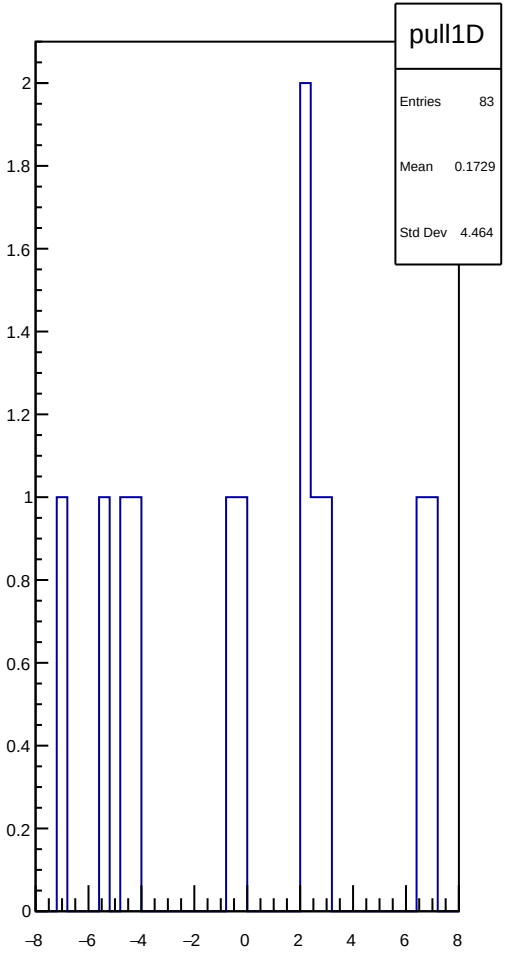

yield_bcm_an_ds_rms vs run
χ² / ndf 2.079e+04 / 82
p0 0.5411 ± 0.0004261
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

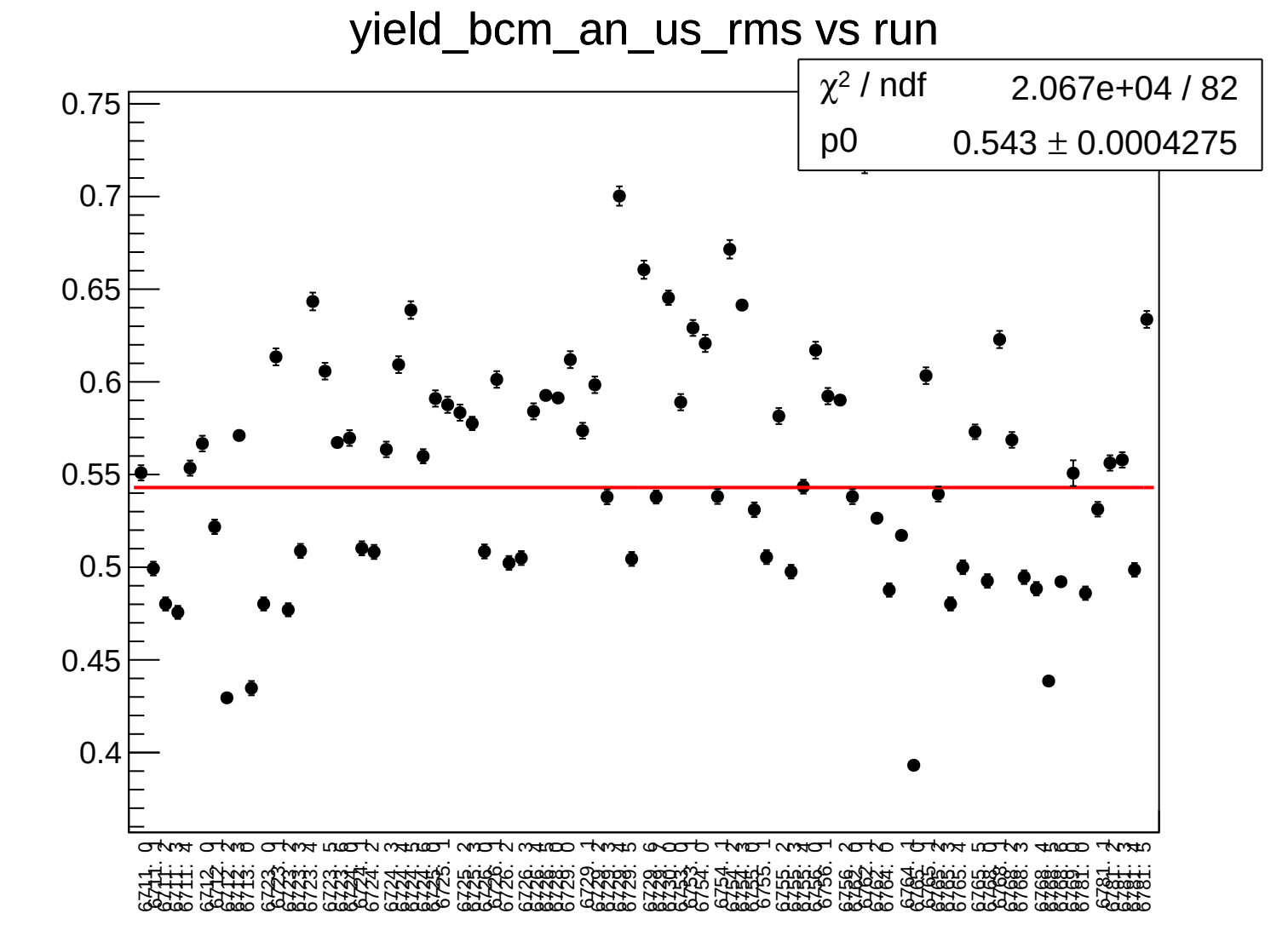

yield_bcm_an_ds3_mean vs run
χ² / ndf 4.425e+05 / 82
p0 149 ± 0.0006103
149.8
149.6
149.4
149.2
149
148.8
148.6
148.4
148.2
148
pull
Entries 83
Mean −979.7
Std Dev 1027
100
50
0
−50
−100
−150
−200

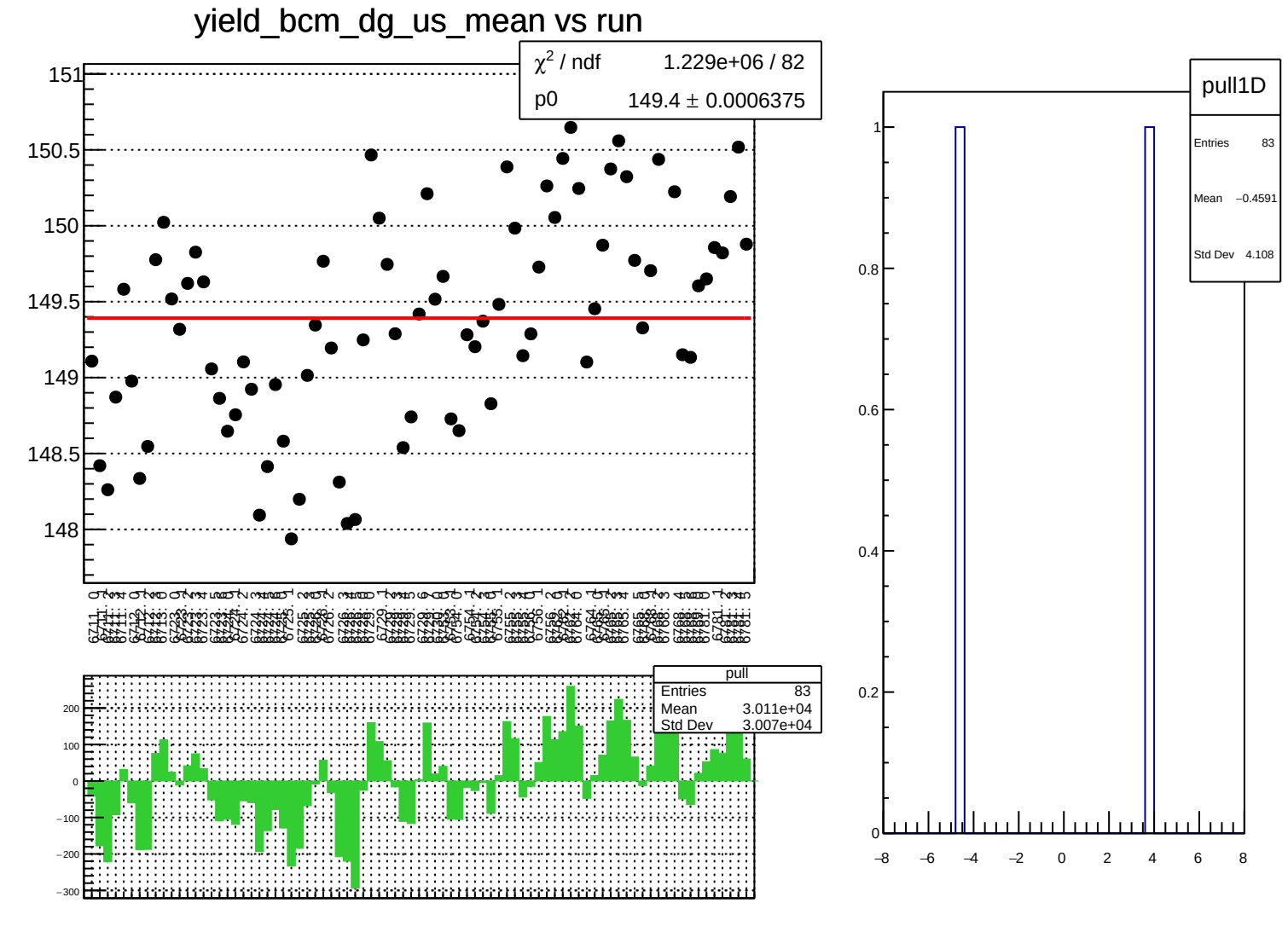

pull1D
Entries 83
Mean −2.384
Std Dev 5.445
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

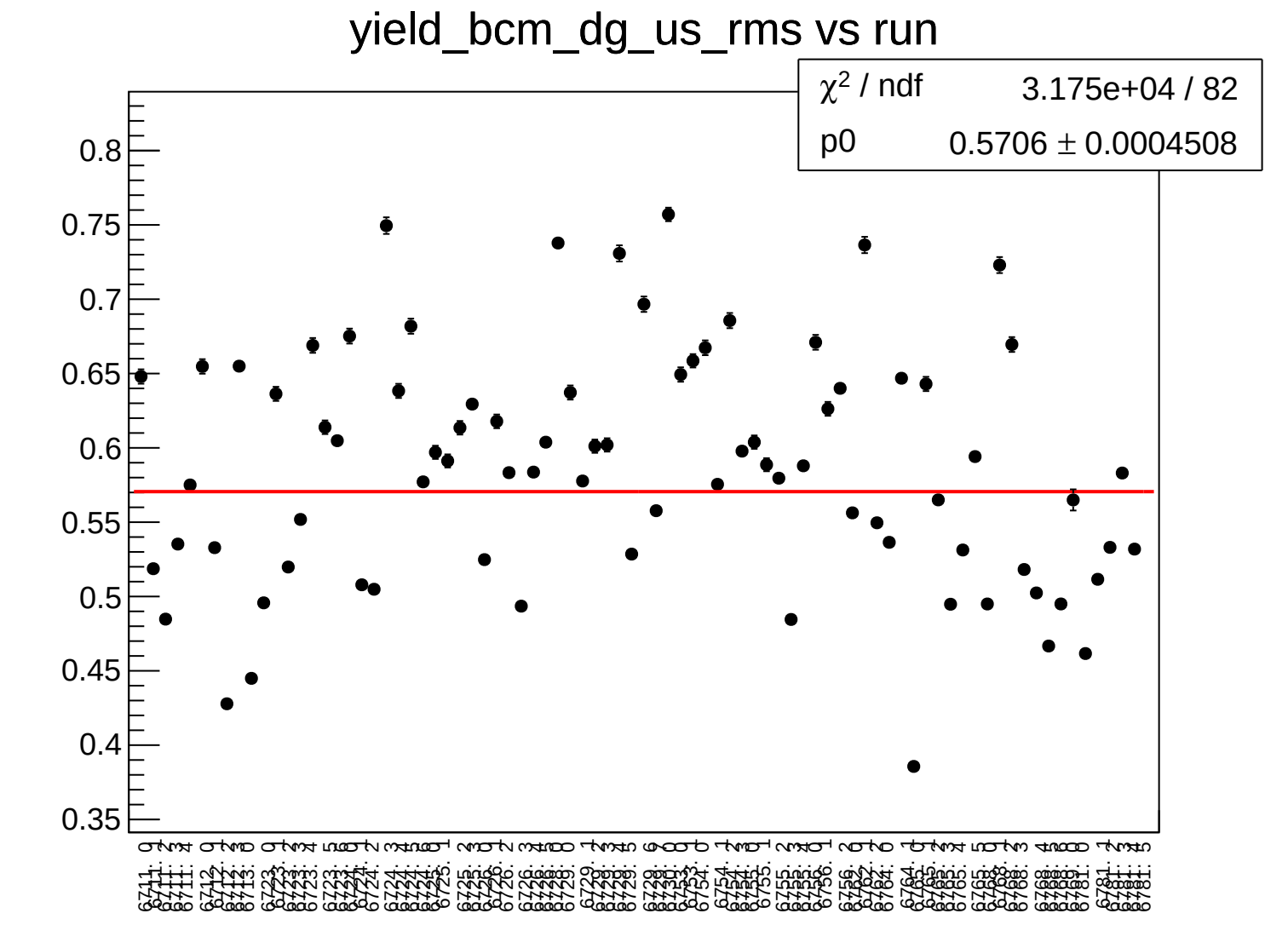

yield_bcm_an_ds3_rms vs run
χ² / ndf 2.097e+04 / 82
p0 0.548 ± 0.0004315
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

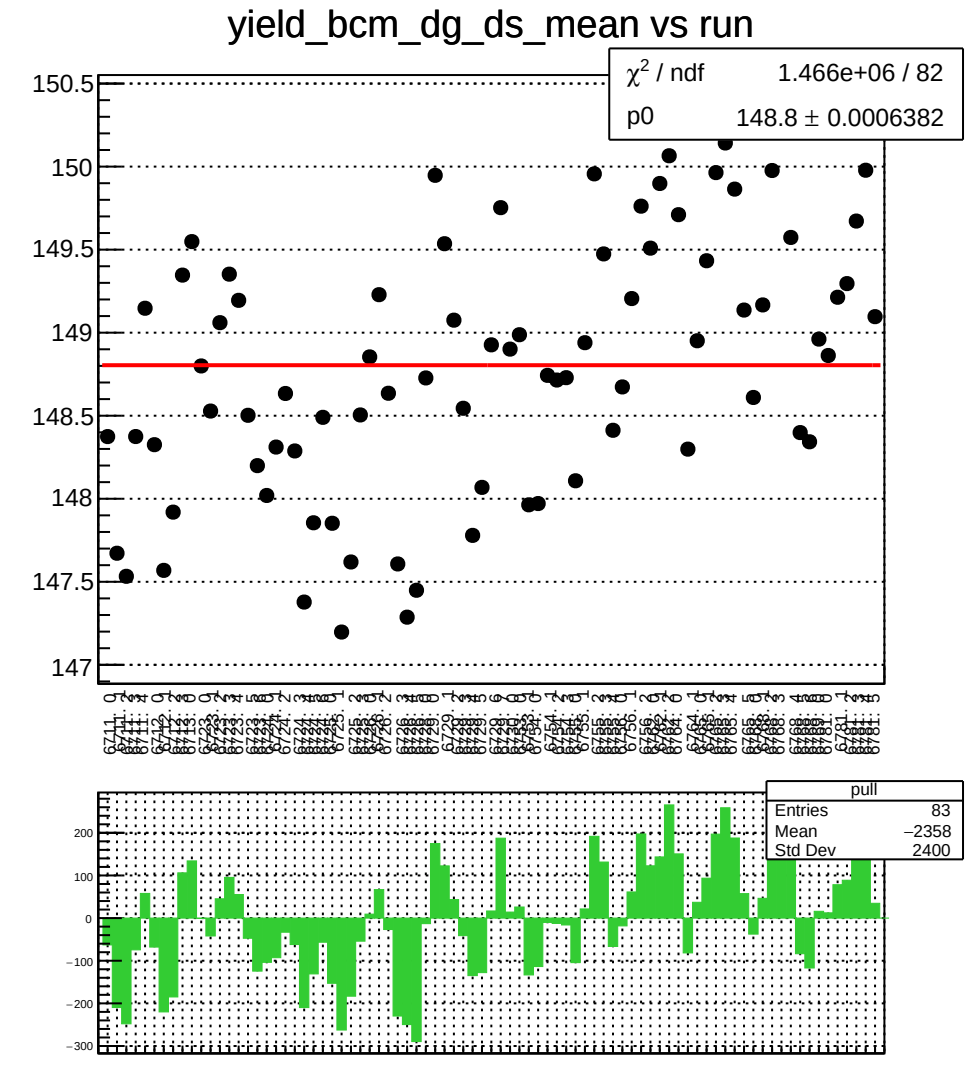

yield_bcm_an_us_mean vs run
χ² / ndf 4.425e+05 / 82
p0 148 ± 0.0006046
148.6
148.4
148.2
148
147.8
147.6
147.4
147.2
147
146.8
pull
Entries 83
Mean −786.3
Std Dev 833.1
100
50
0
−50
−100
−150

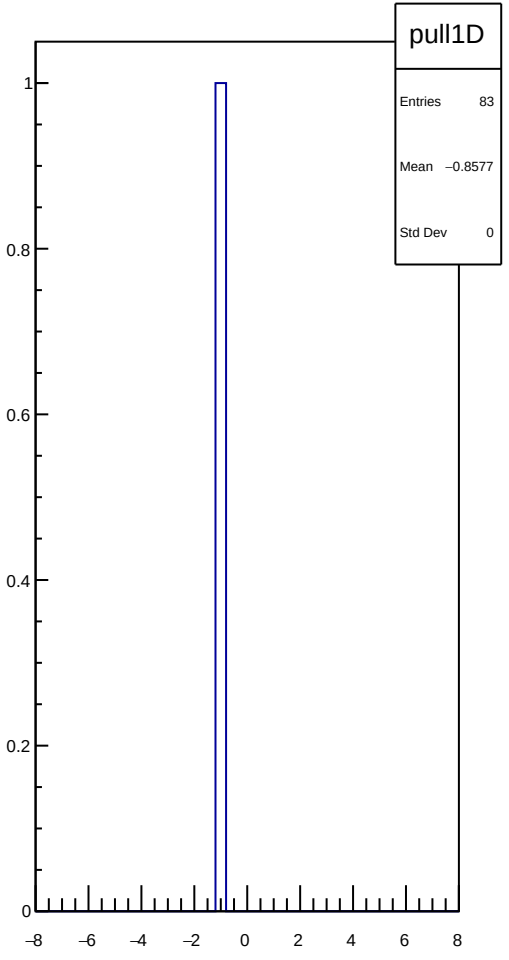

pull1D
Entries 83
Mean 0.1729
Std Dev 4.464
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

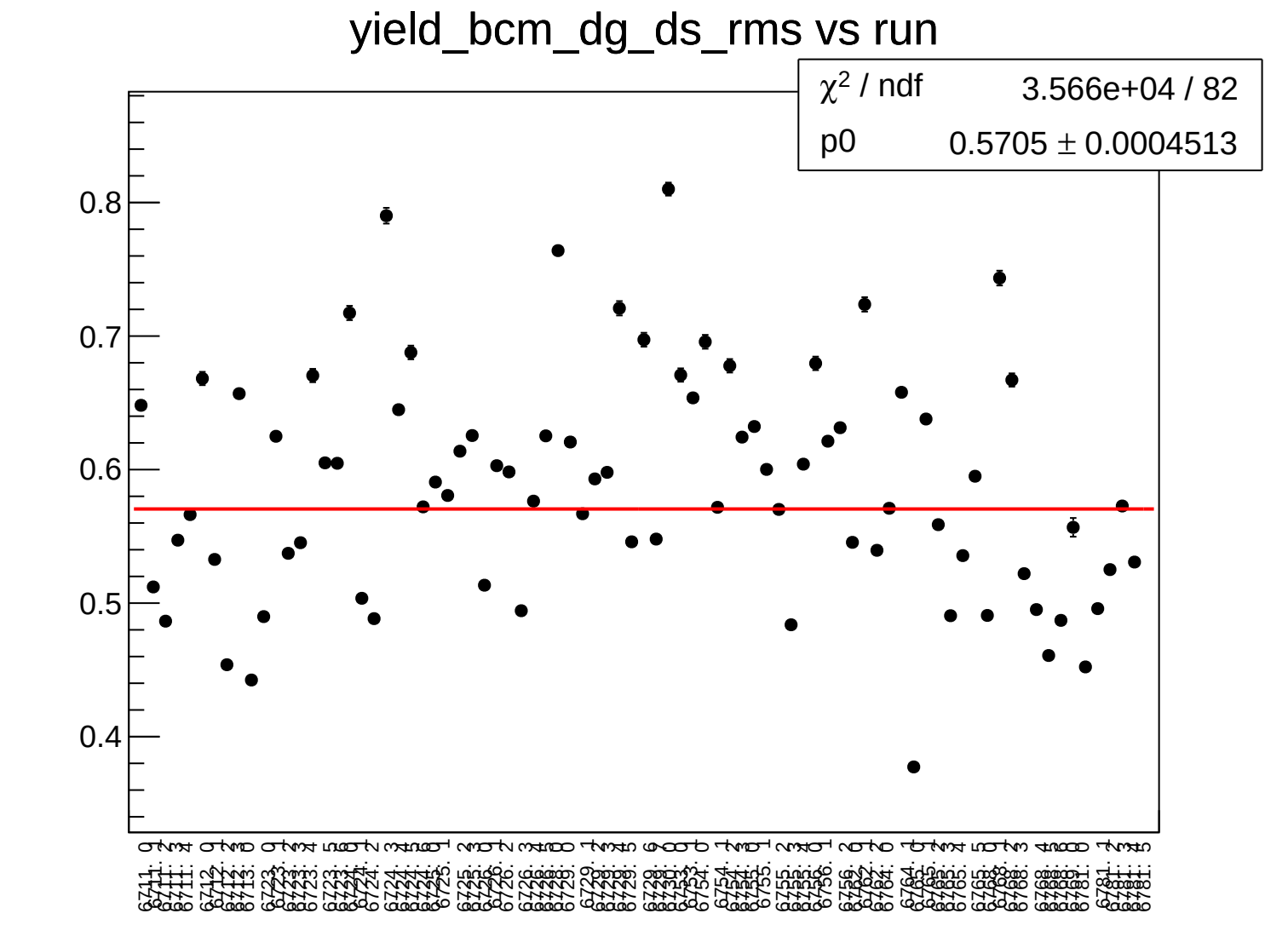

yield_bcm_an_us_rms vs run
χ² / ndf 2.067e+04 / 82
p0 0.543 ± 0.0004275
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

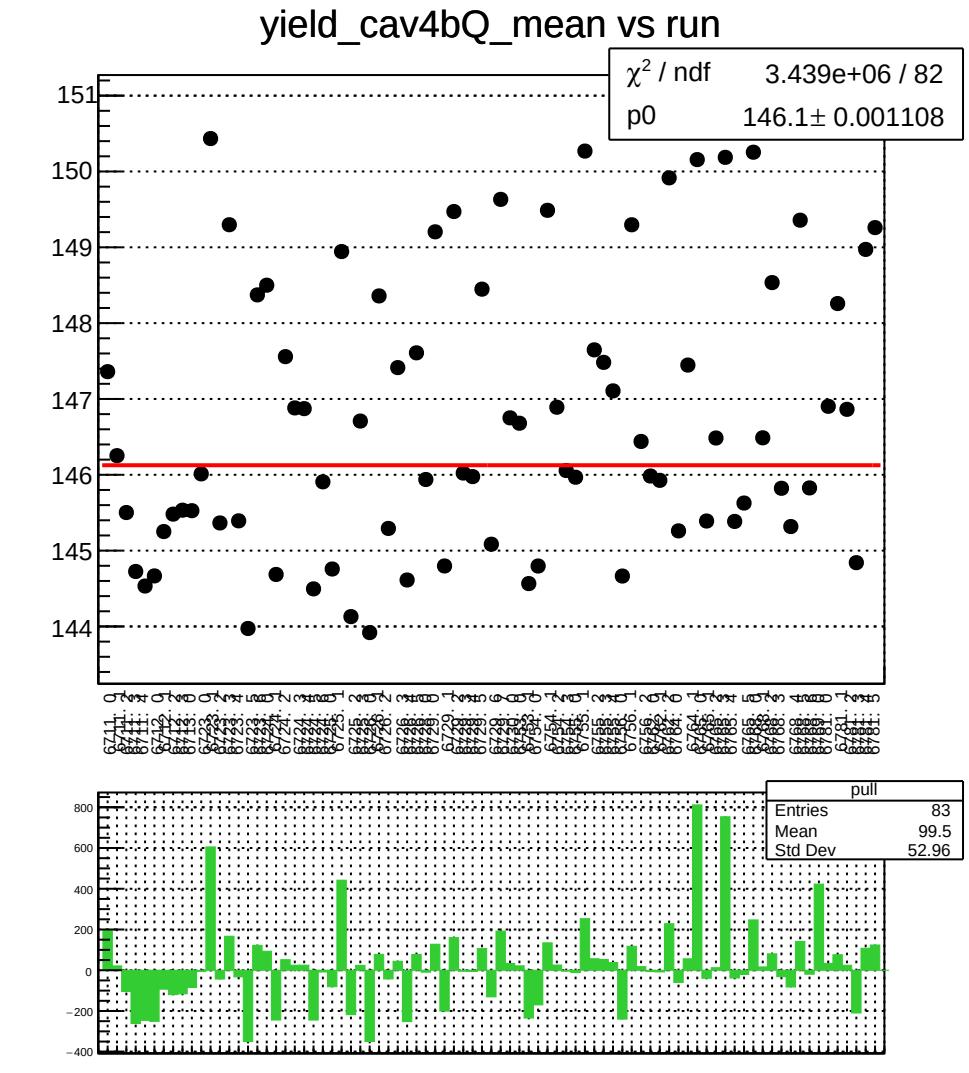

yield_bcm_dg_us_mean vs run
χ² / ndf 1.229e+06 / 82
p0 149.4 ± 0.0006375
151
150.5
150
149.5
149
148.5
148
pull
Entries 83
Mean 3.011e+04
Std Dev 3.007e+04
200
100
0
−100
−200
−300
pull1D
Entries 83
Mean −0.4591
Std Dev 4.108
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

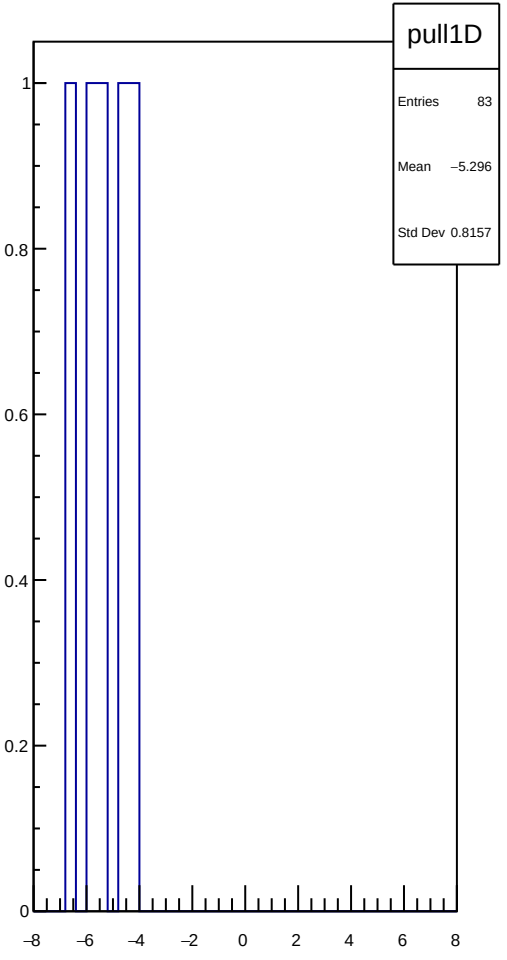

yield_bcm_dg_us_rms vs run
χ² / ndf 3.175e+04 / 82
p0 0.5706 ± 0.0004508
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35

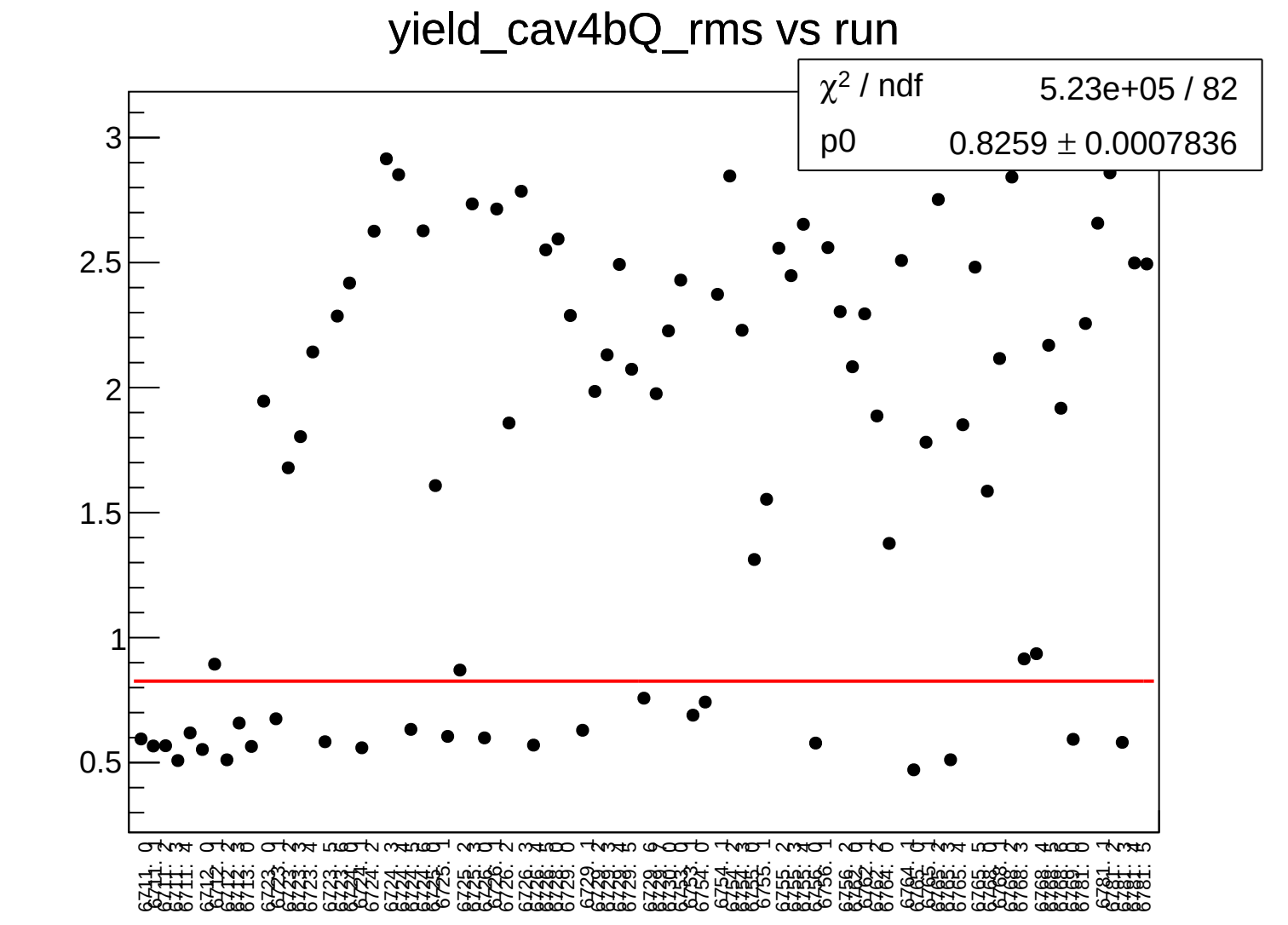

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.466e+06 / 82
p0 148.8 ± 0.0006382
150.5
150
149.5
149
148.5
148
147.5
147
pull
Entries 83
Mean −2358
Std Dev 2400
200
100
0
−100
−200
−300

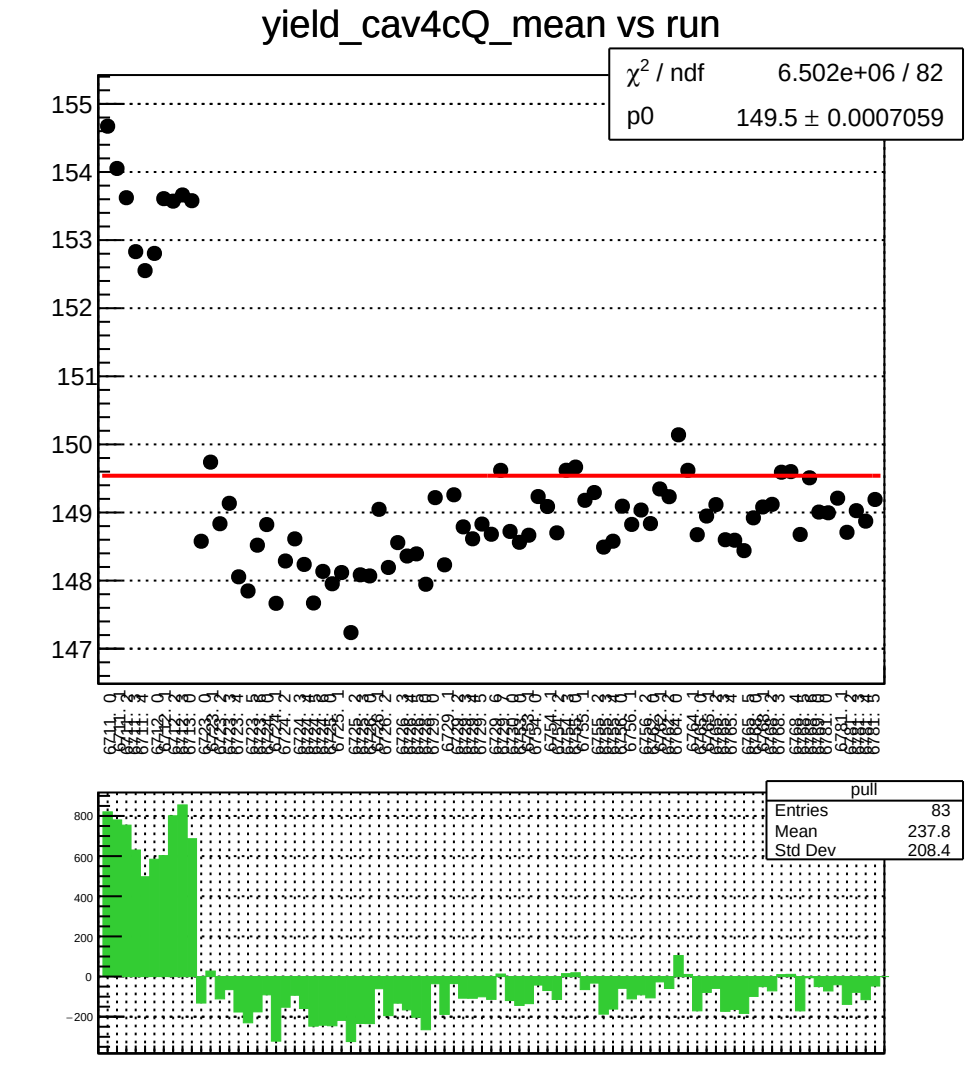

pull1D
Entries 83
Mean −0.8577
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

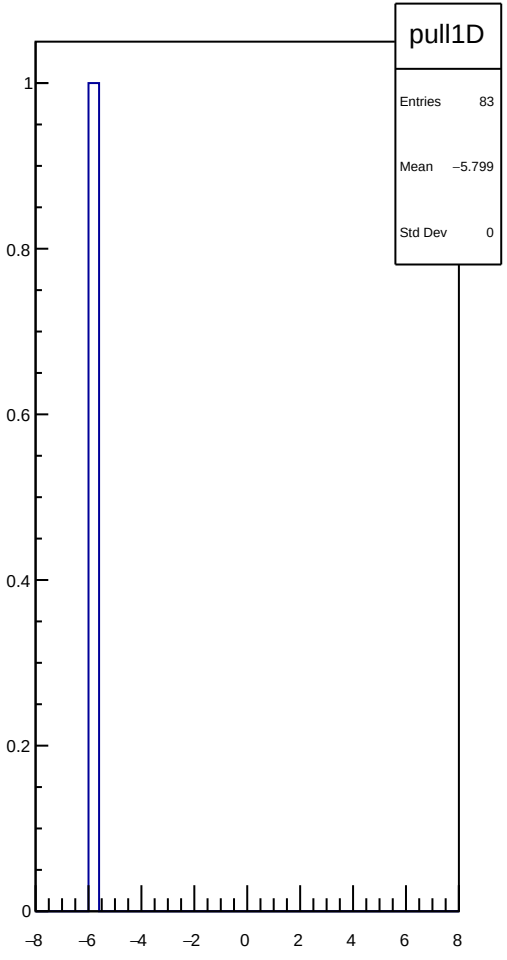

yield_bcm_dg_ds_rms vs run
χ² / ndf 3.566e+04 / 82
p0 0.5705 ± 0.0004513
0.8
0.7
0.6
0.5
0.4

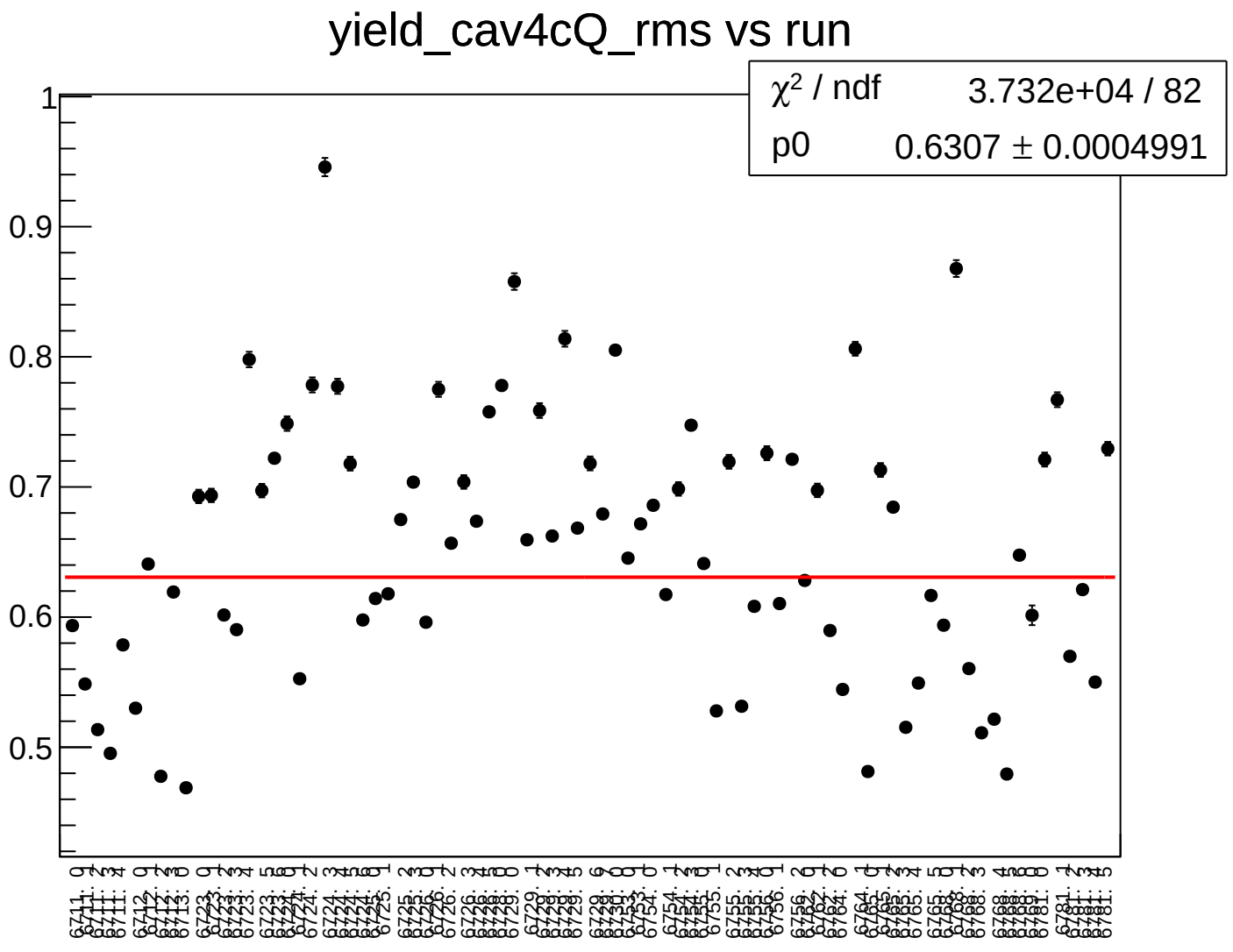

yield_cav4bQ_mean vs run
χ² / ndf 3.439e+06 / 82
p0 146.1± 0.001108
151
150
149
148
147
146
145
144
pull
Entries 83
Mean 99.5
Std Dev 52.96
800
600
400
200
0
−200
−400

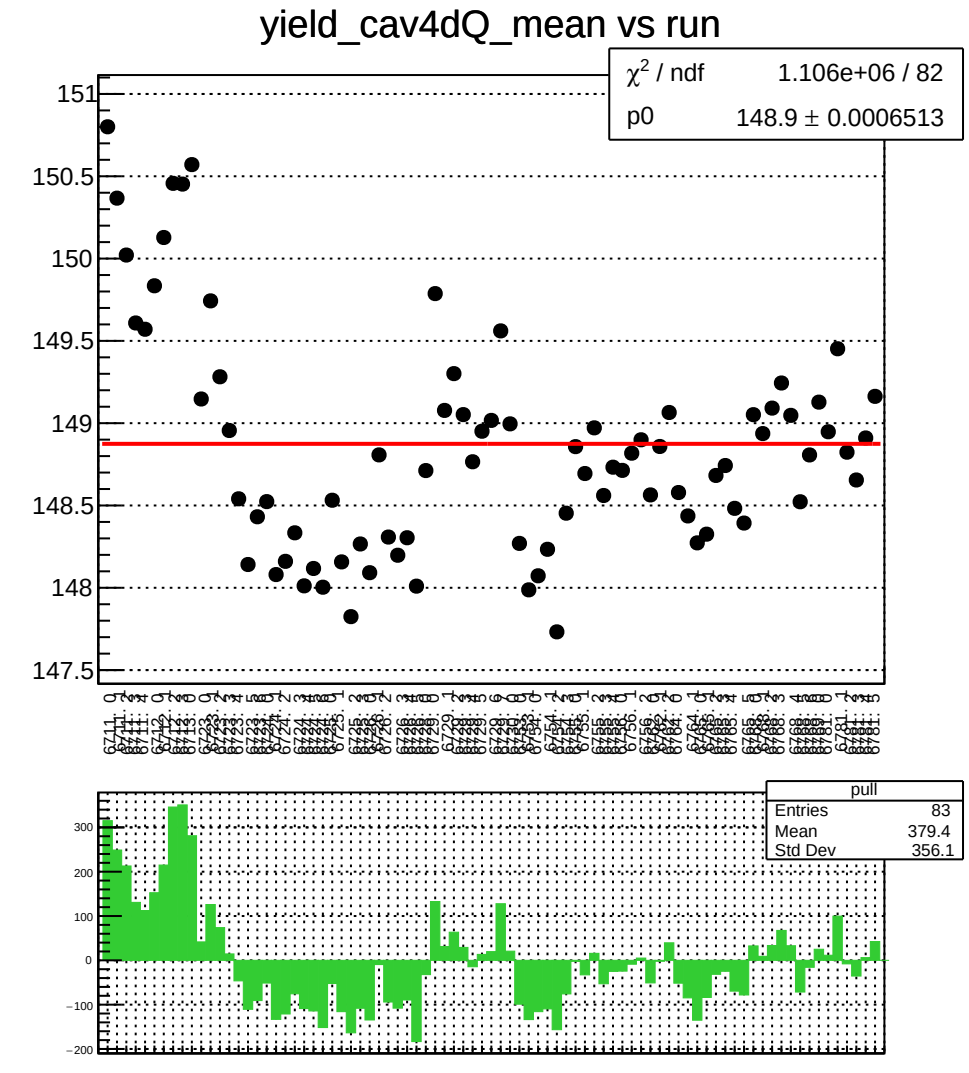

pull1D
Entries 83
Mean −5.296
Std Dev 0.8157
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

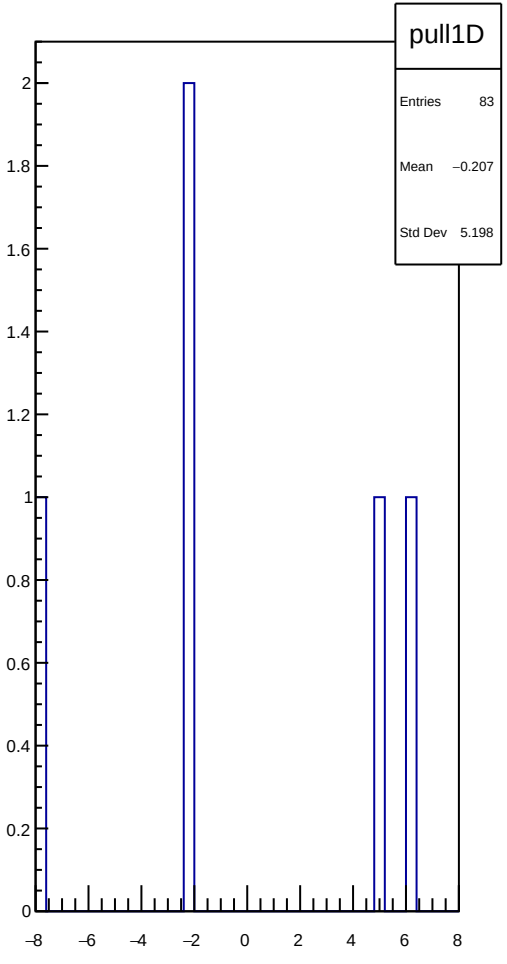

yield_cav4bQ_rms vs run
χ² / ndf 5.23e+05 / 82
p0 0.8259 ± 0.0007836
3
2.5
2
1.5
1
0.5

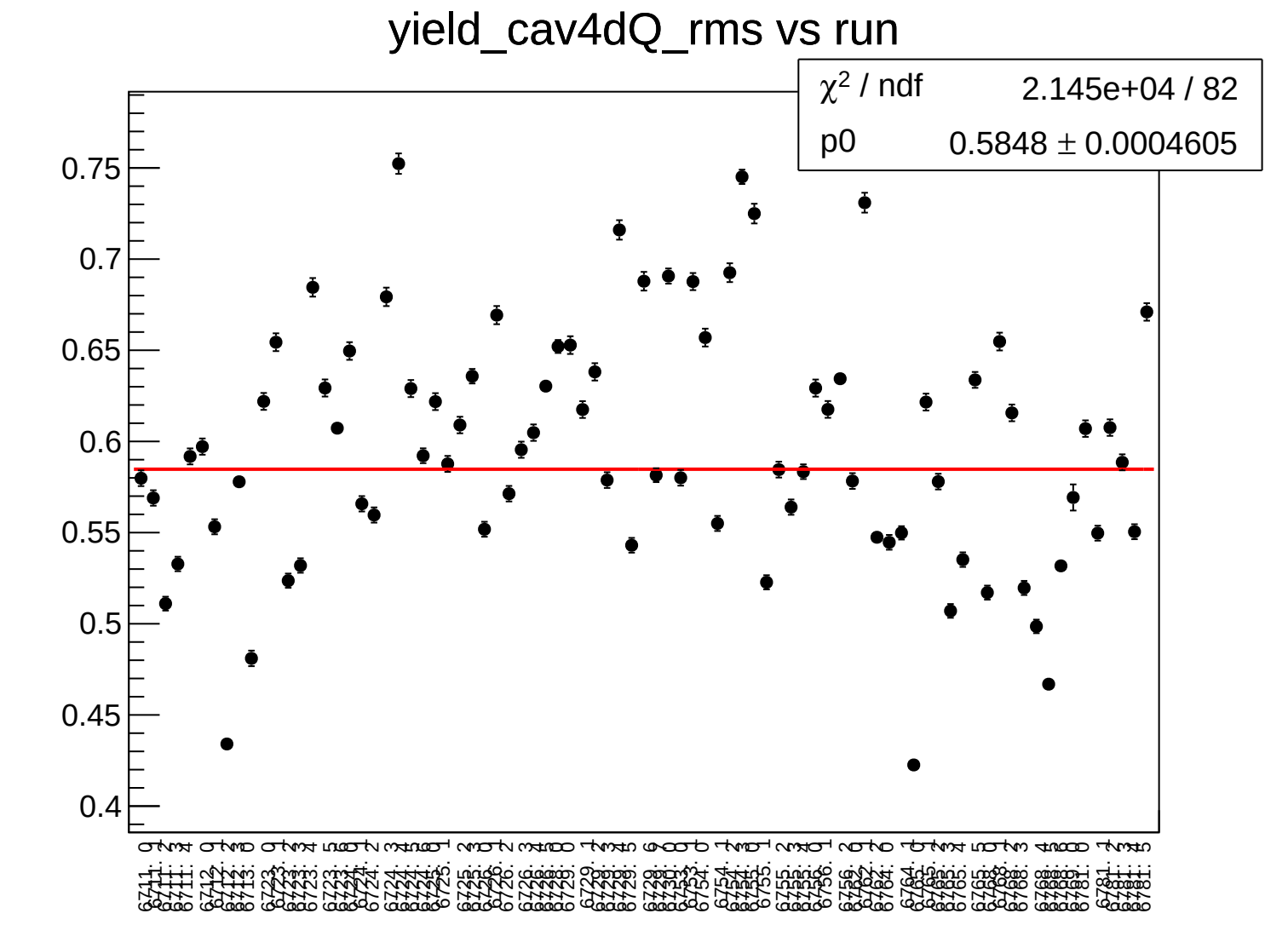

yield_cav4cQ_mean vs run
χ² / ndf 6.502e+06 / 82
p0 149.5 ± 0.0007059
pull
Entries 83
Mean 237.8
Std Dev 208.4

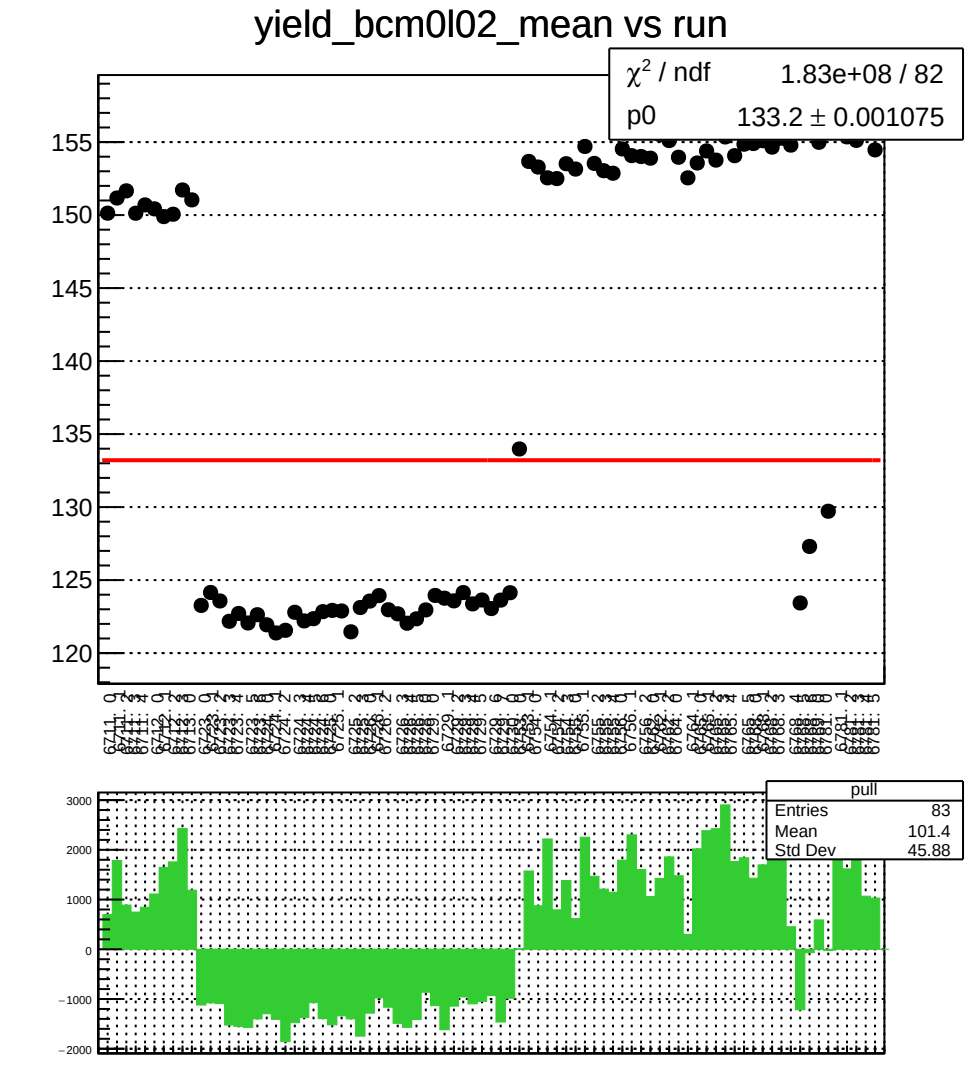

pull1D
Entries 83
Mean −5.799
Std Dev 0

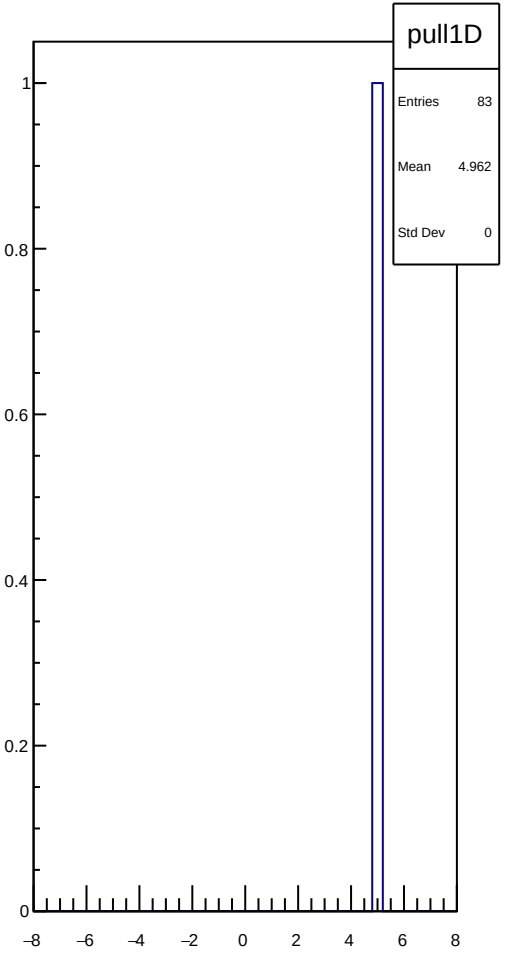

yield_cav4cQ_rms vs run
χ² / ndf 3.732e+04 / 82
p0 0.6307 ± 0.0004991
1
0.9
0.8
0.7
0.6
0.5


yield_cav4dQ_mean vs run
χ² / ndf 1.106e+06 / 82
p0 148.9 ± 0.0006513
151
150.5
150
149.5
149
148.5
148
147.5
pull
Entries 83
Mean 379.4
Std Dev 356.1
300
200
100
0
−100
−200

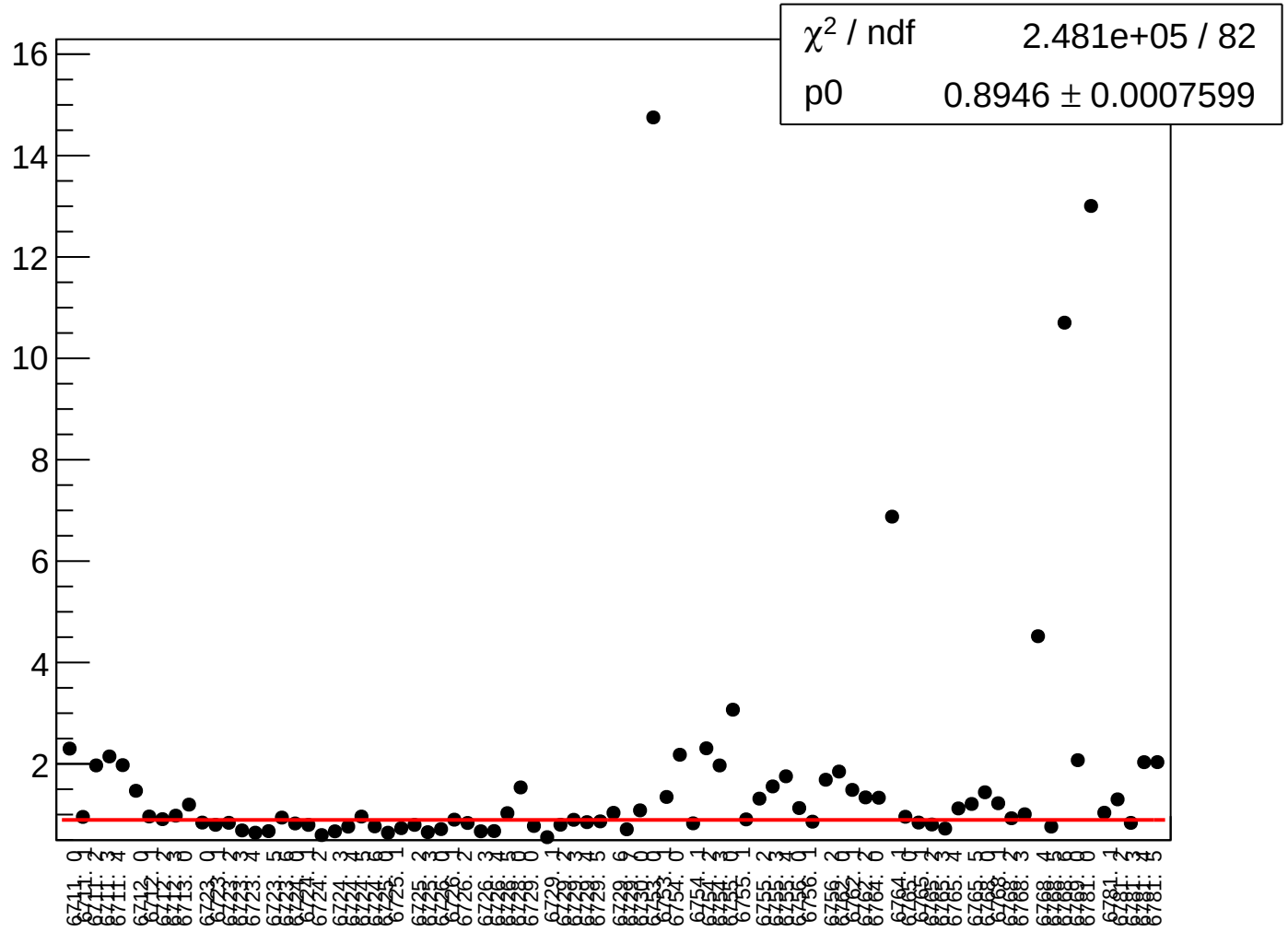

pull1D
Entries 83
Mean −0.207
Std Dev 5.198
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

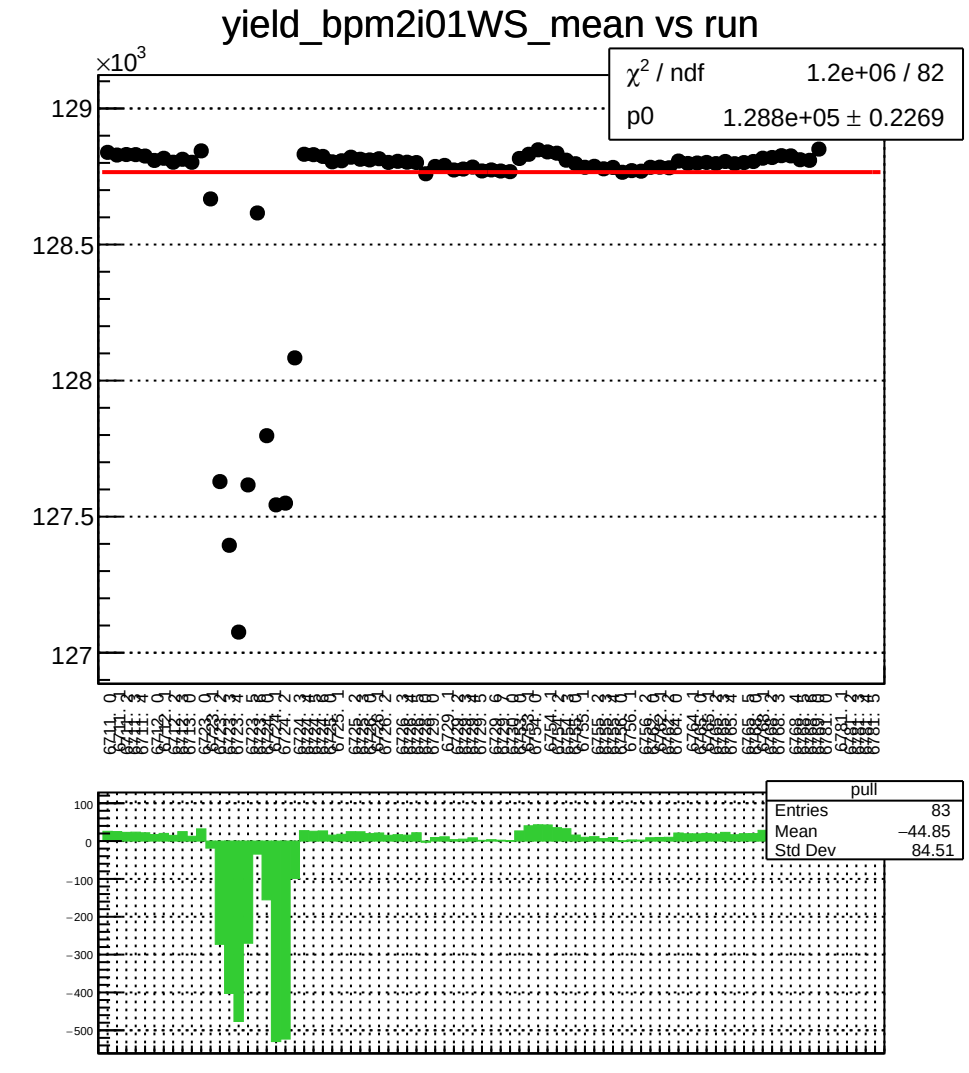

yield_cav4dQ_rms vs run
χ² / ndf 2.145e+04 / 82
p0 0.5848 ± 0.0004605
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

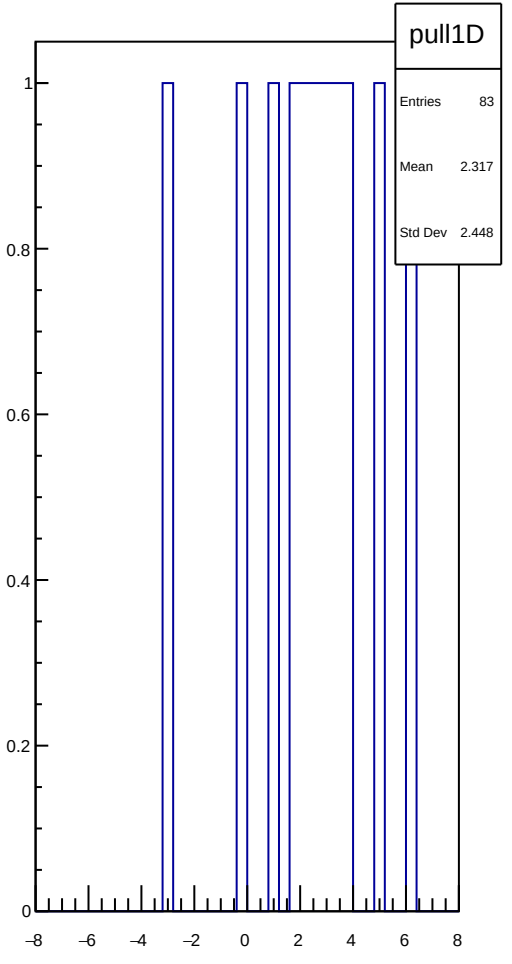

yield_bcm0l02_mean vs run
χ² / ndf 1.83e+08 / 82
p0 133.2 ± 0.001075
155
150
145
140
135
130
125
120
pull
Entries 83
Mean 101.4
Std Dev 45.88
3000
2000
1000
0
−1000
−2000

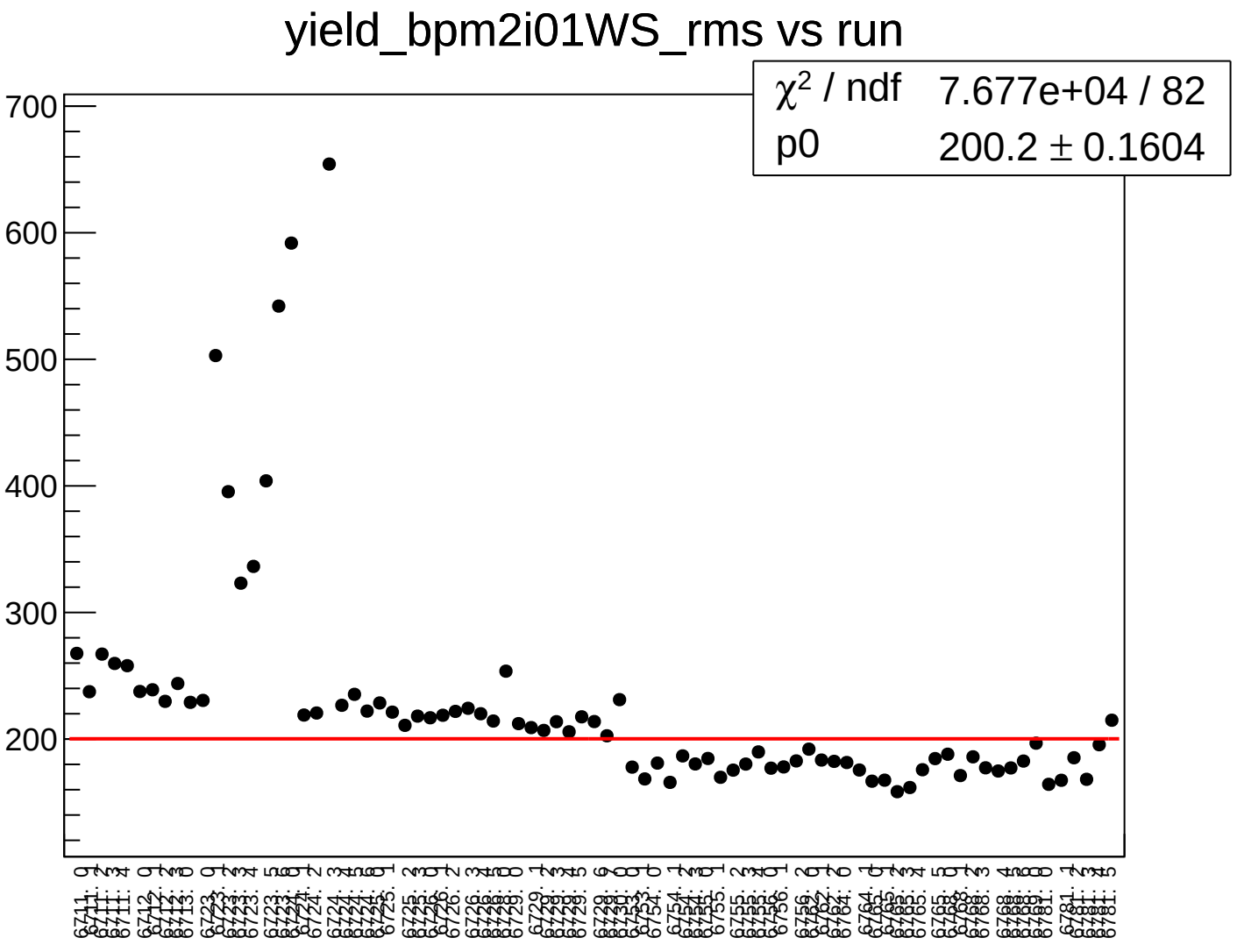

pull1D
Entries 83
Mean 4.962
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

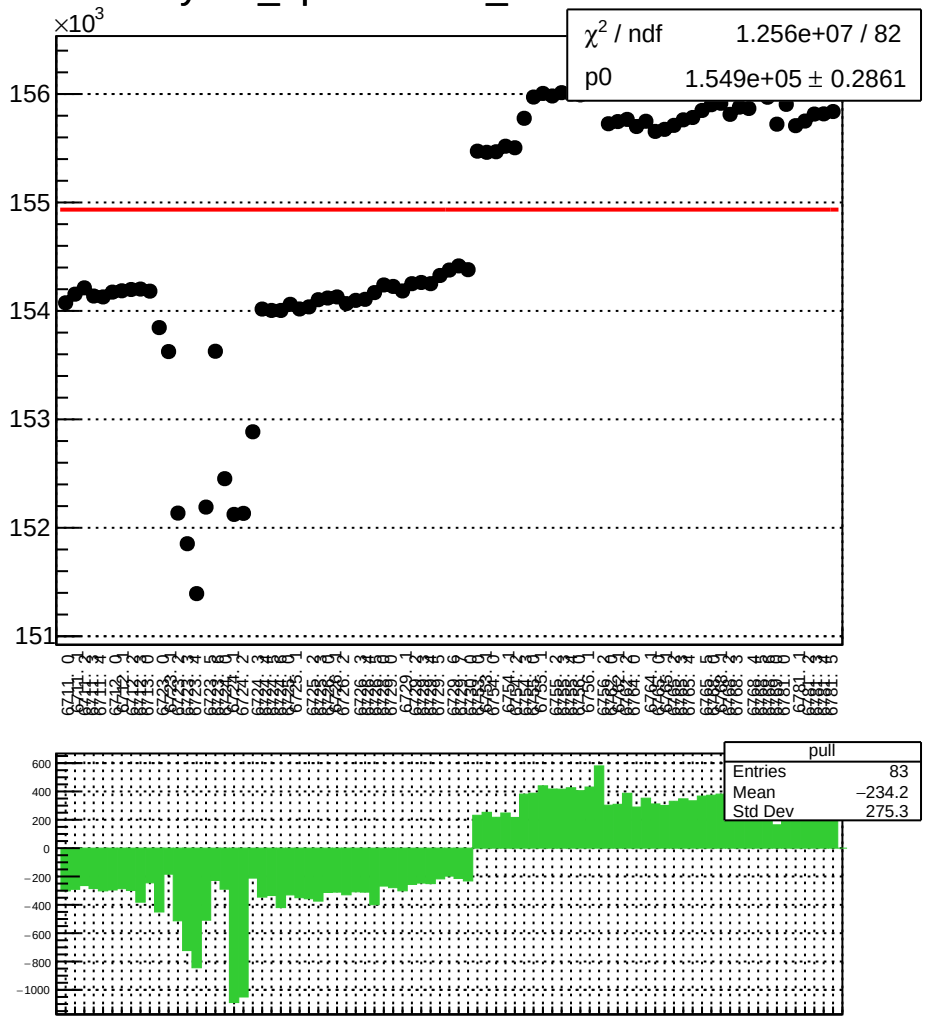
yield_bcm0l02_rms vs run

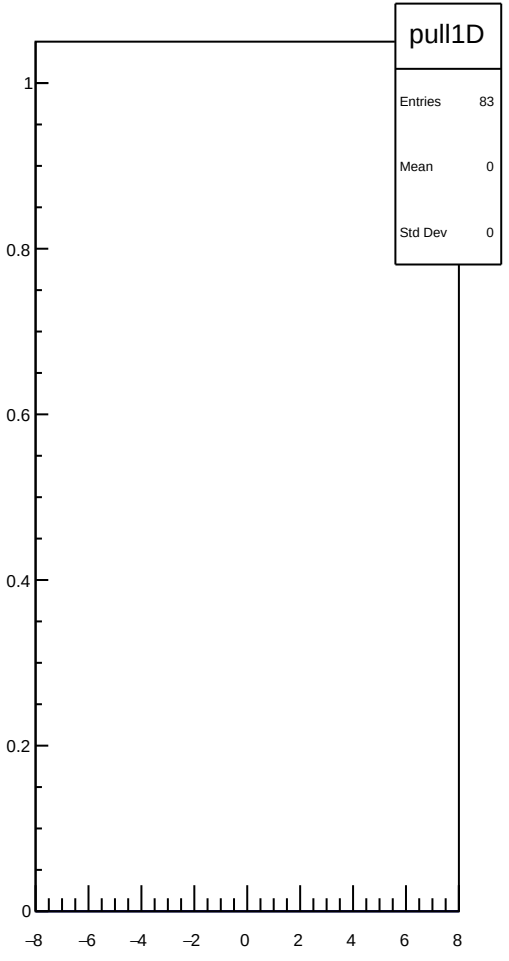


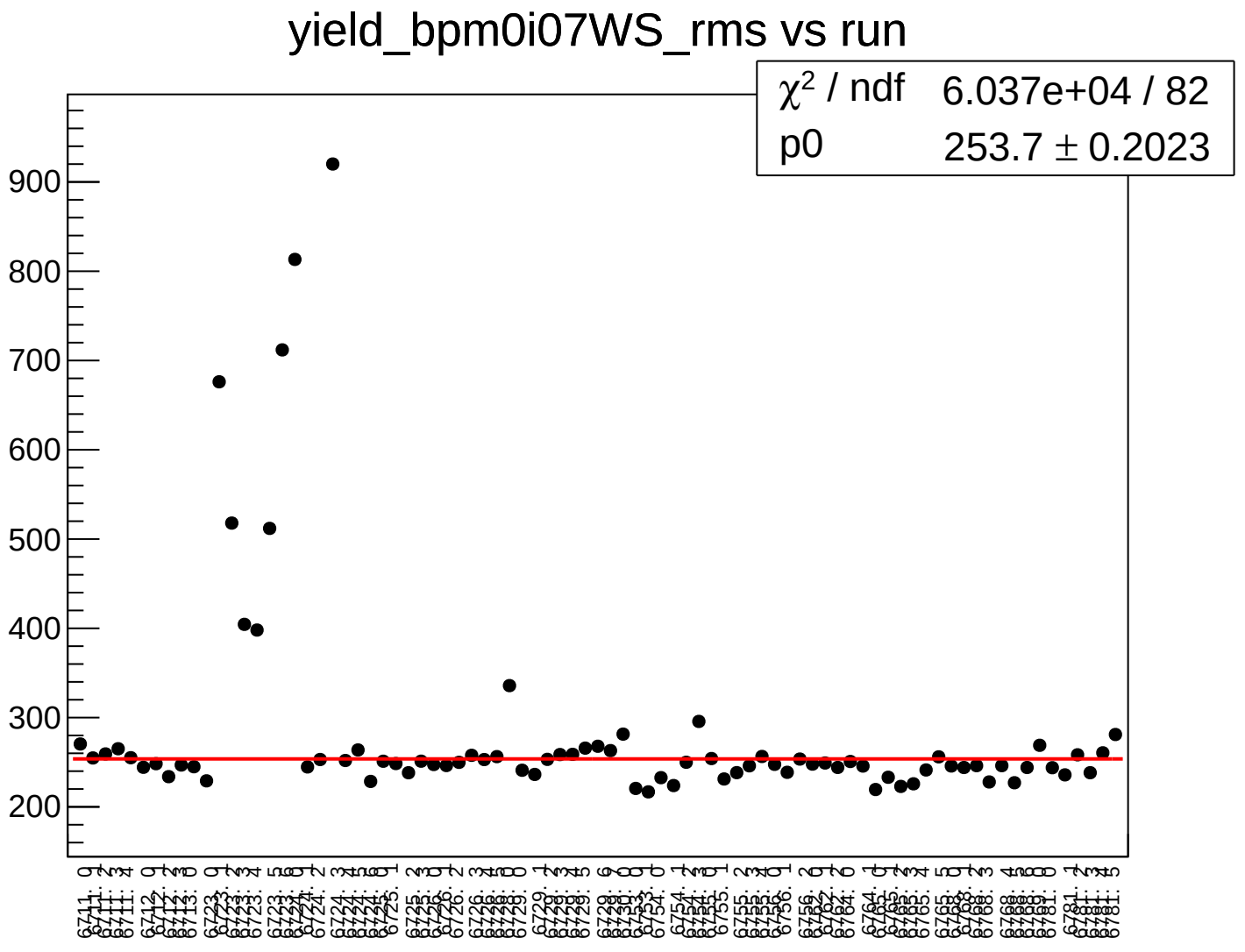

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.2e+06 / 82
p0 1.288e+05 ± 0.2269
129
128.5
128
127.5
127
pull
Entries 83
Mean −44.85
Std Dev 84.51
100
0
−100
−200
−300
−400
−500

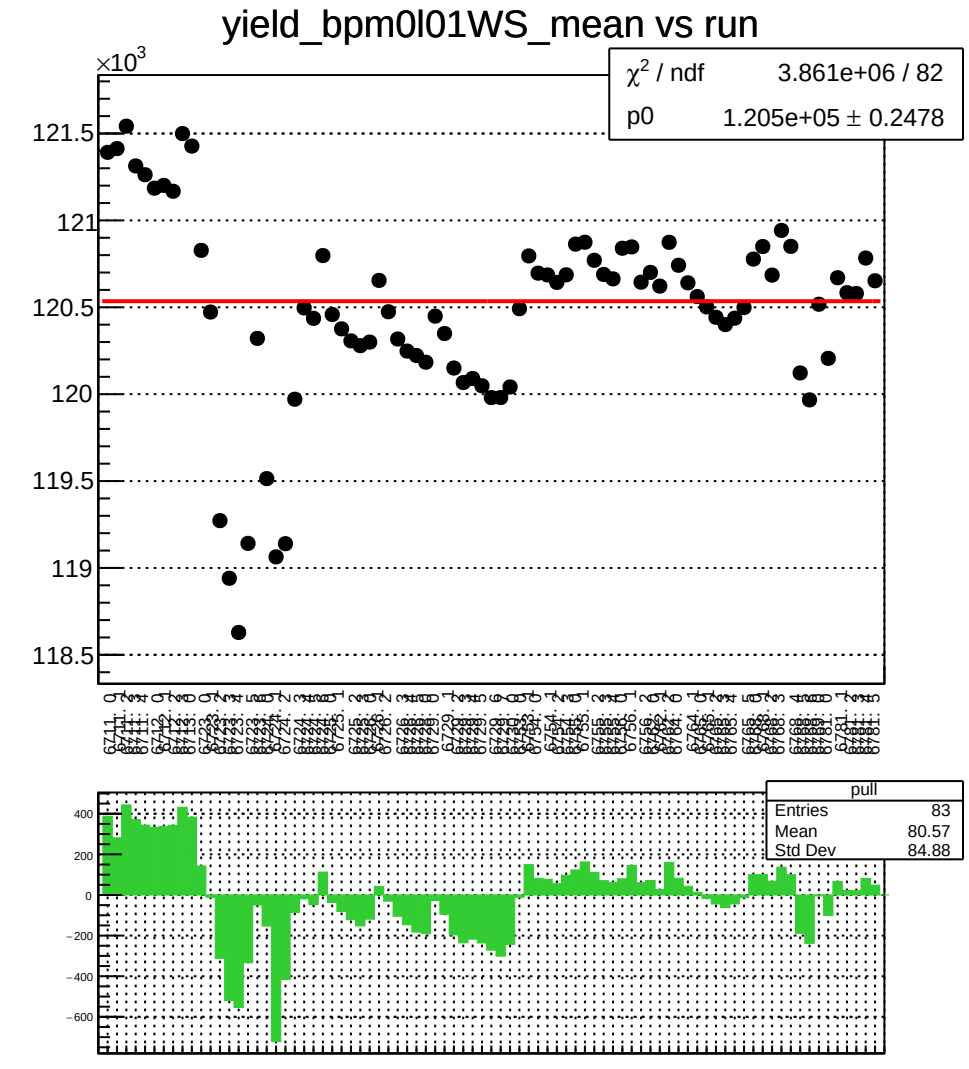

pull1D
Entries 83
Mean 2.317
Std Dev 2.448
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

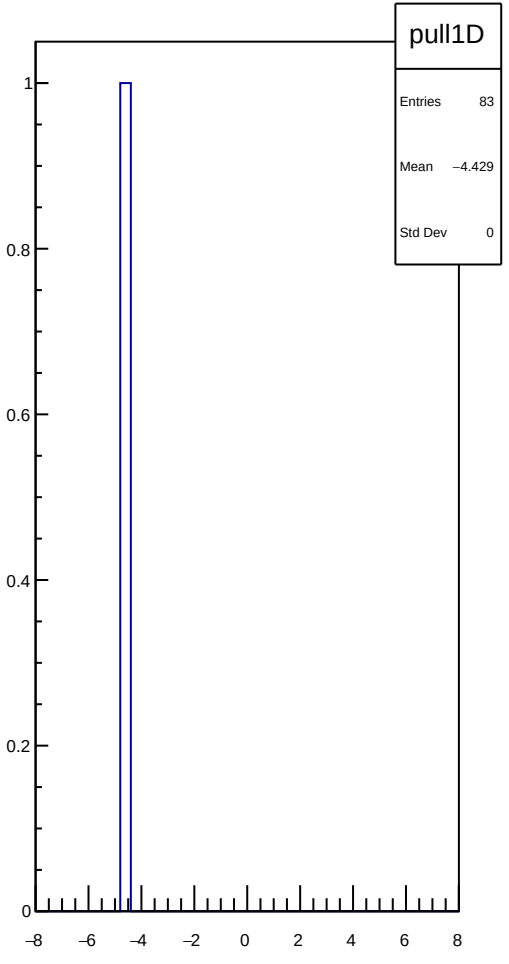

yield_bpm2i01WS_rms vs run
χ² / ndf 7.677e+04 / 82
p0 200.2 ± 0.1604
700
600
500
400
300
200

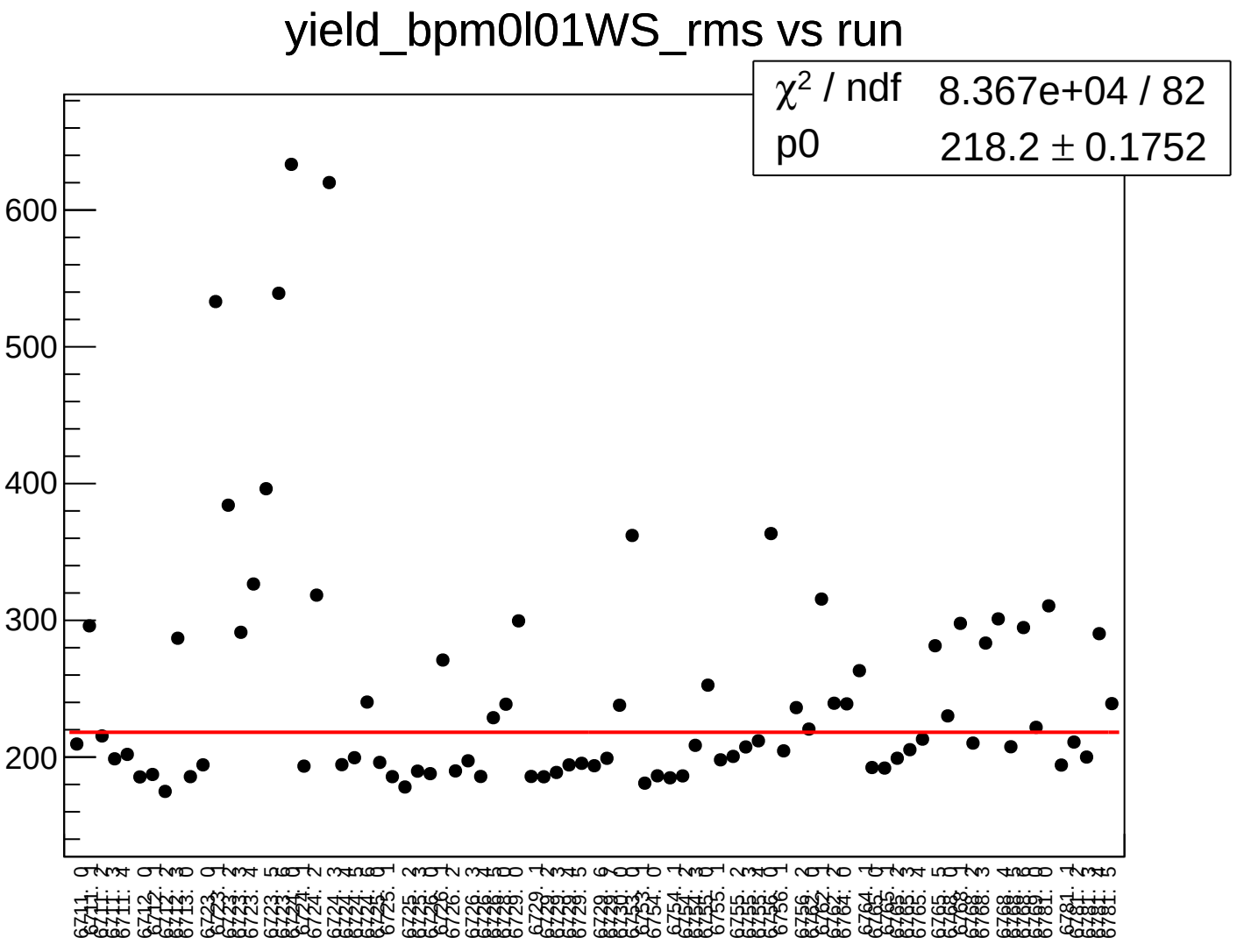

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.256e+07 / 82
p0 1.549e+05 ± 0.2861
156
155
154
153
152
151
pull
Entries 83
Mean −234.2
Std Dev 275.3
600
400
200
0
−200
−400
−600
−800
−1000

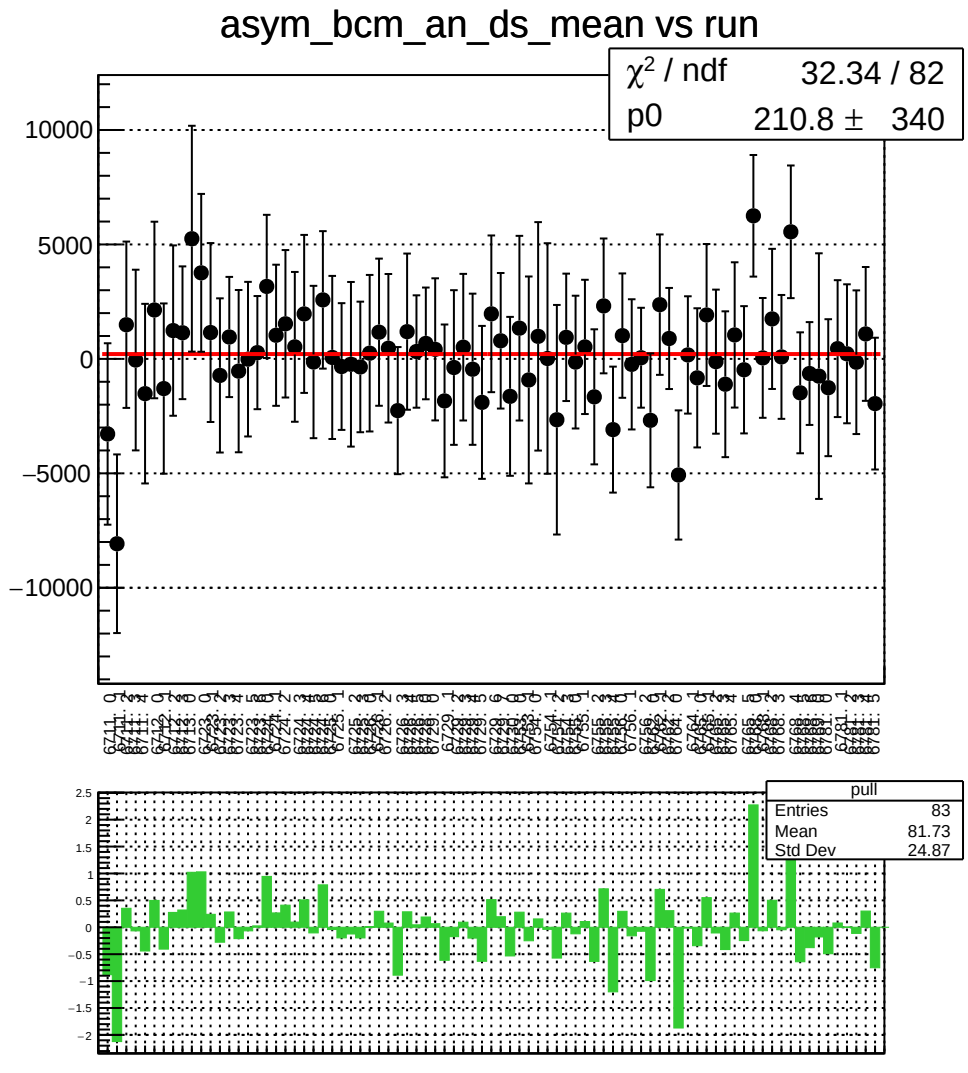

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

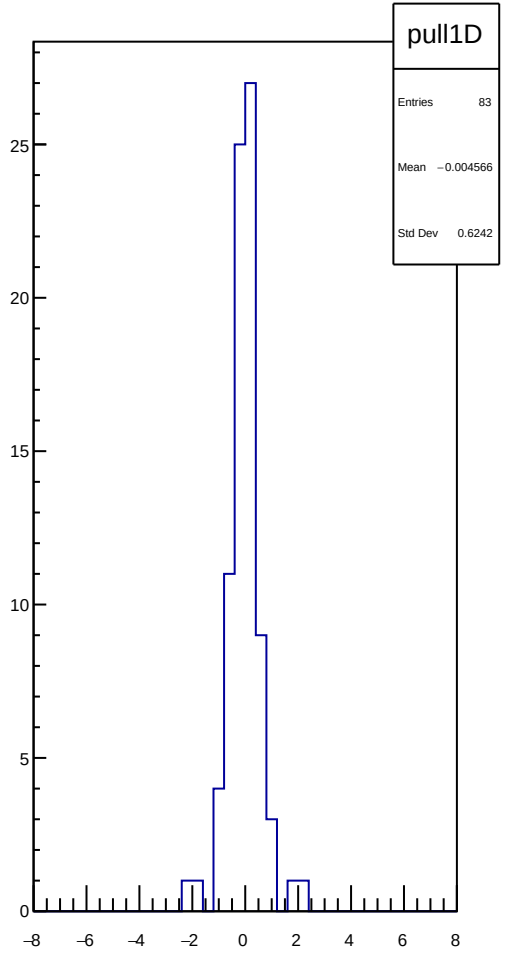

yield_bpm0i07WS_rms vs run
χ² / ndf 6.037e+04 / 82
p0 253.7 ± 0.2023
900
800
700
600
500
400
300
200


yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 3.861e+06 / 82
p0 1.205e+05 ± 0.2478
121.5
121
120.5
120
119.5
119
118.5
pull
Entries 83
Mean 80.57
Std Dev 84.88
400
200
0
−200
−400
−600

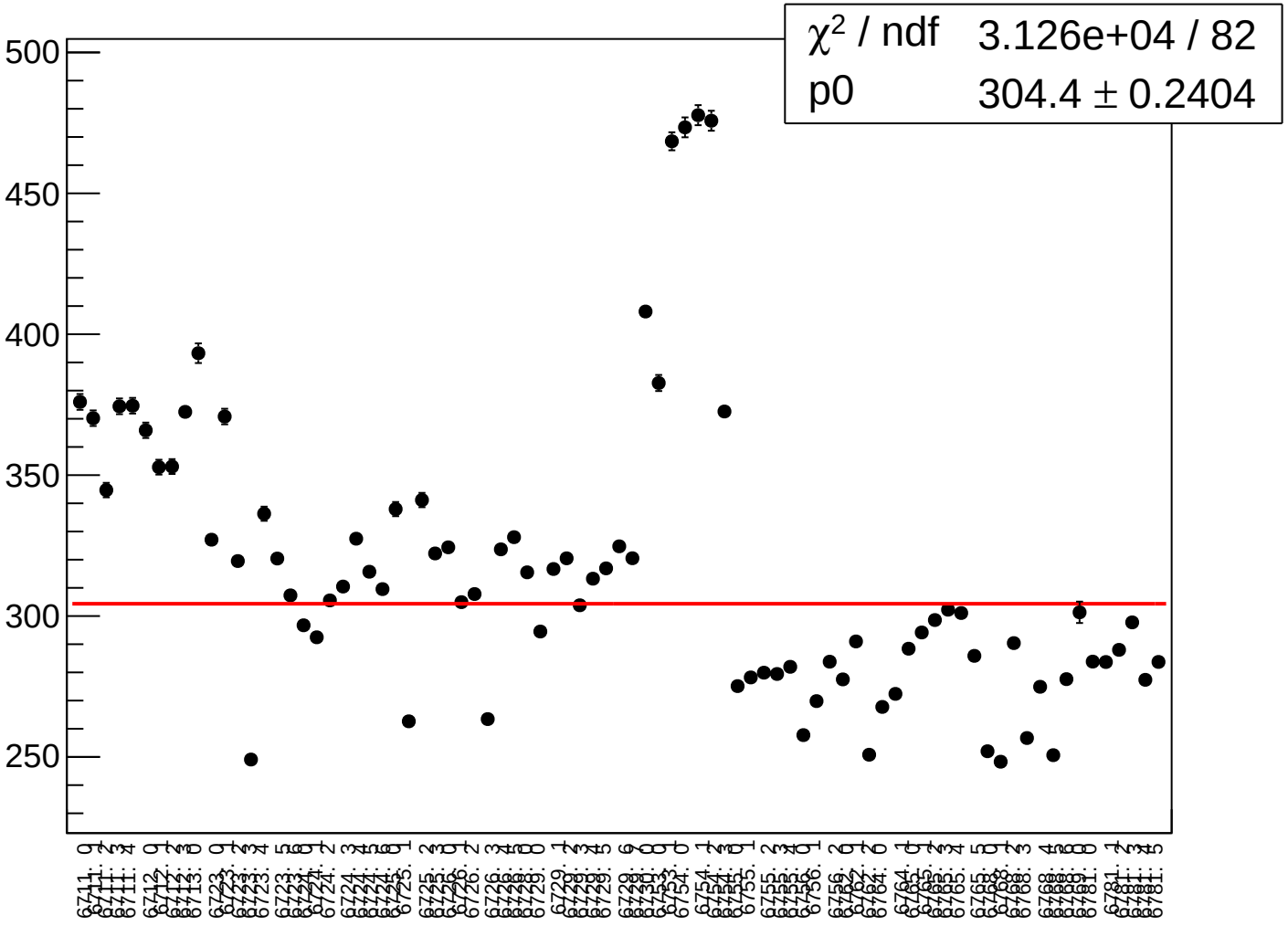

pull1D
Entries 83
Mean −4.429
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

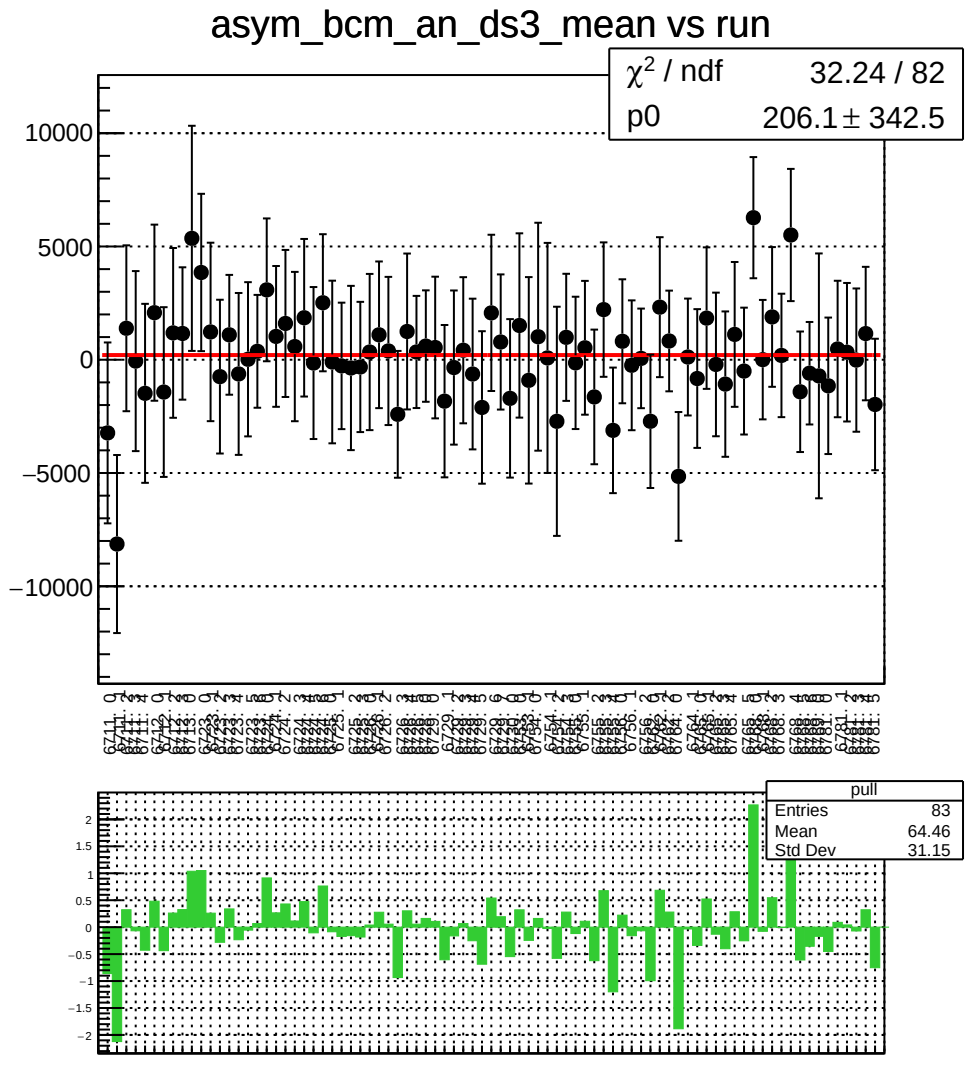

yield_bpm0l01WS_rms vs run
χ^2 / ndf 8.367e+04 / 82
p0 218.2 ± 0.1752
600
500
400
300
200

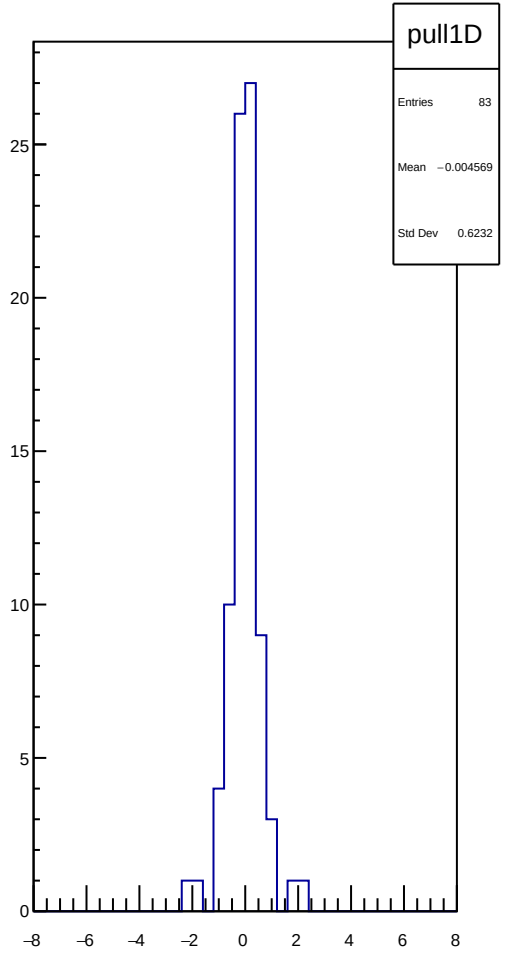

asym_bcm_an_ds_mean vs run
χ² / ndf 32.34 / 82
p0 210.8 ± 340
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 81.73
Std Dev 24.87
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

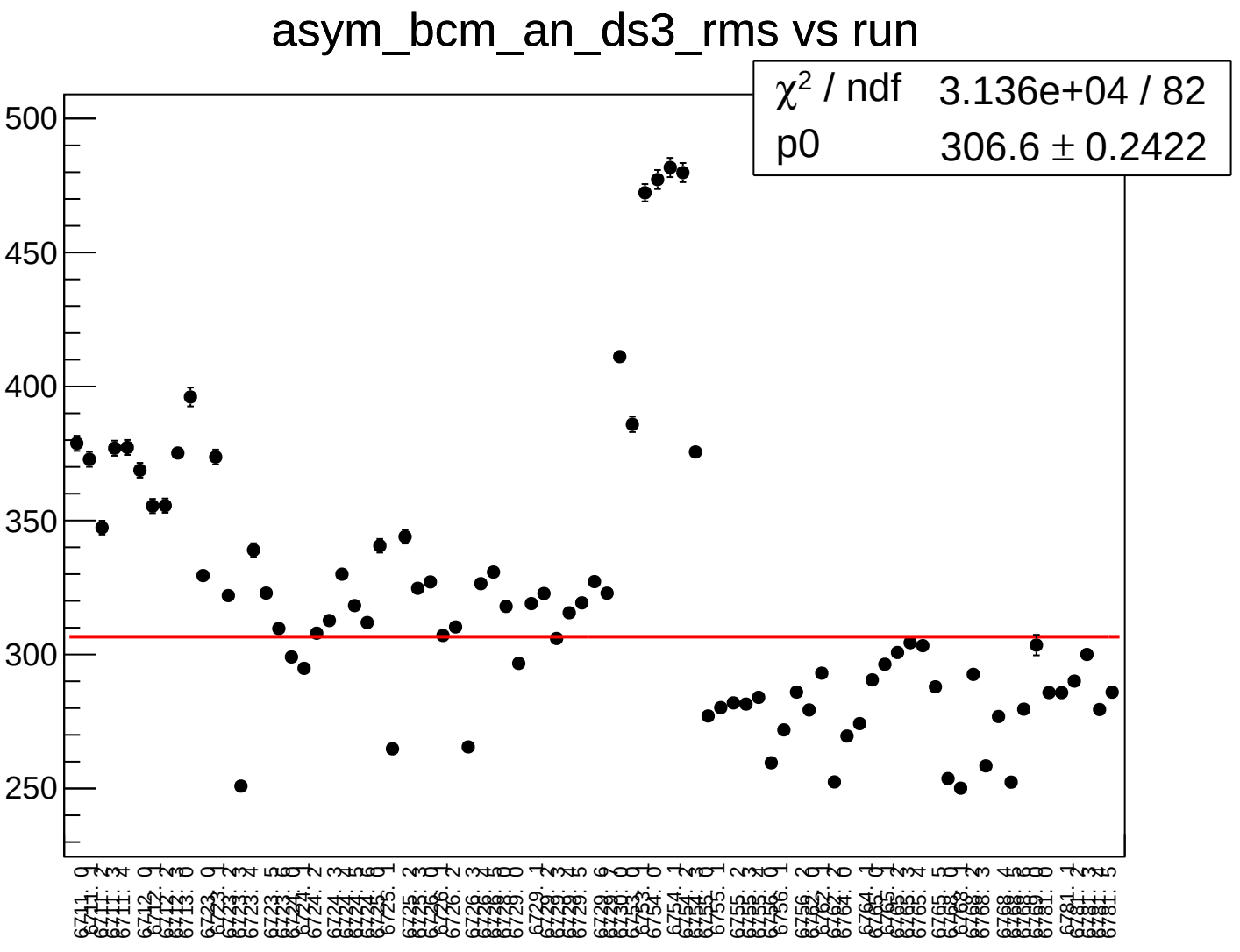

pull1D
Entries 83
Mean −0.004566
Std Dev 0.6242
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

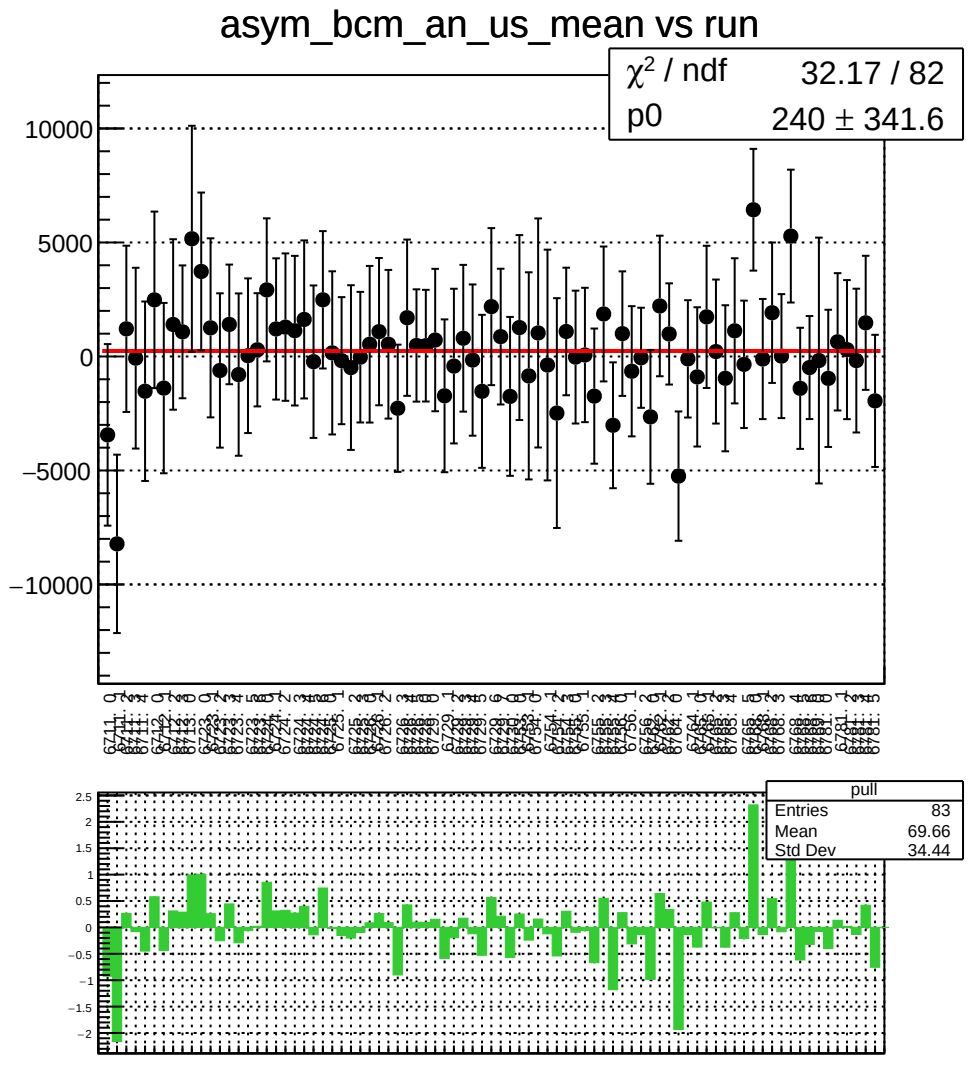
asym_bcm_an_ds_rms vs run

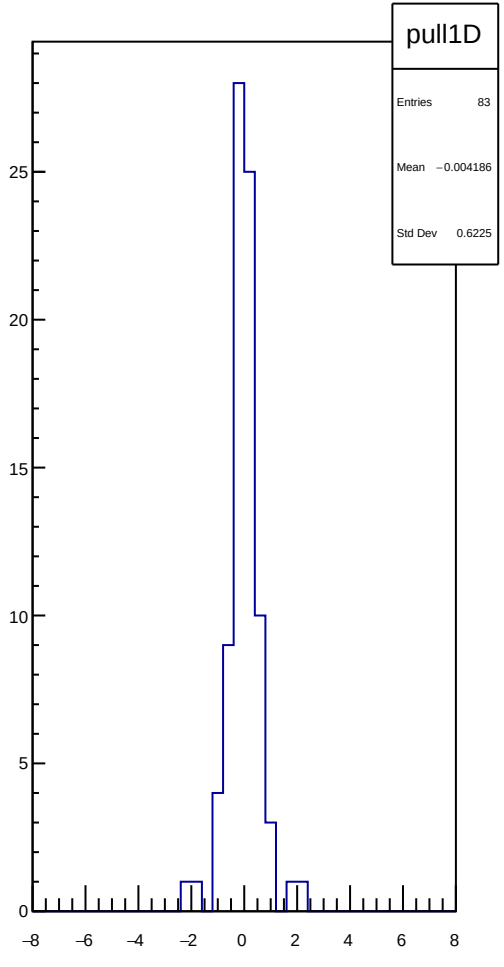


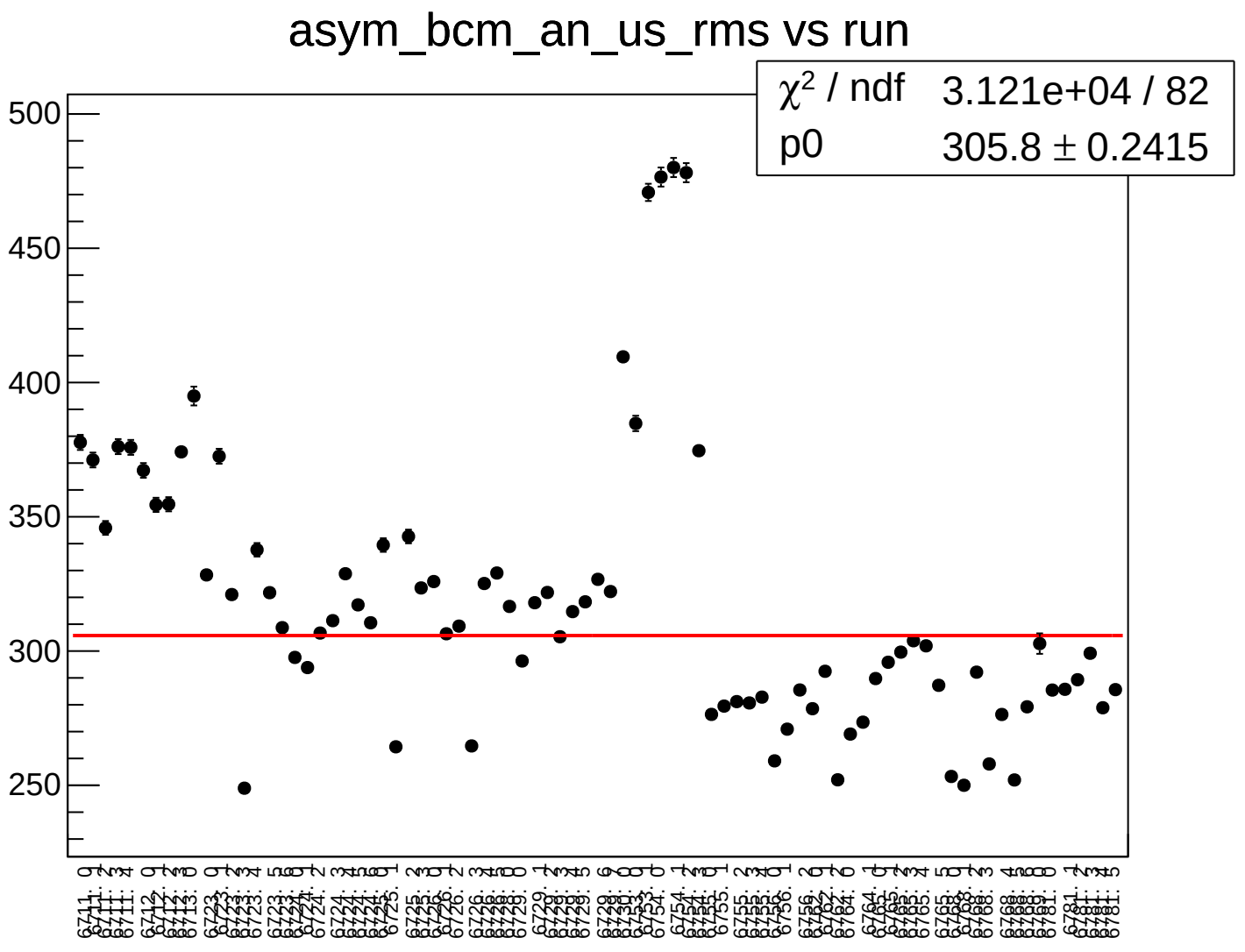

asym_bcm_an_ds3_mean vs run
χ² / ndf 32.24 / 82
p0 206.1 ± 342.5
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 64.46
Std Dev 31.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

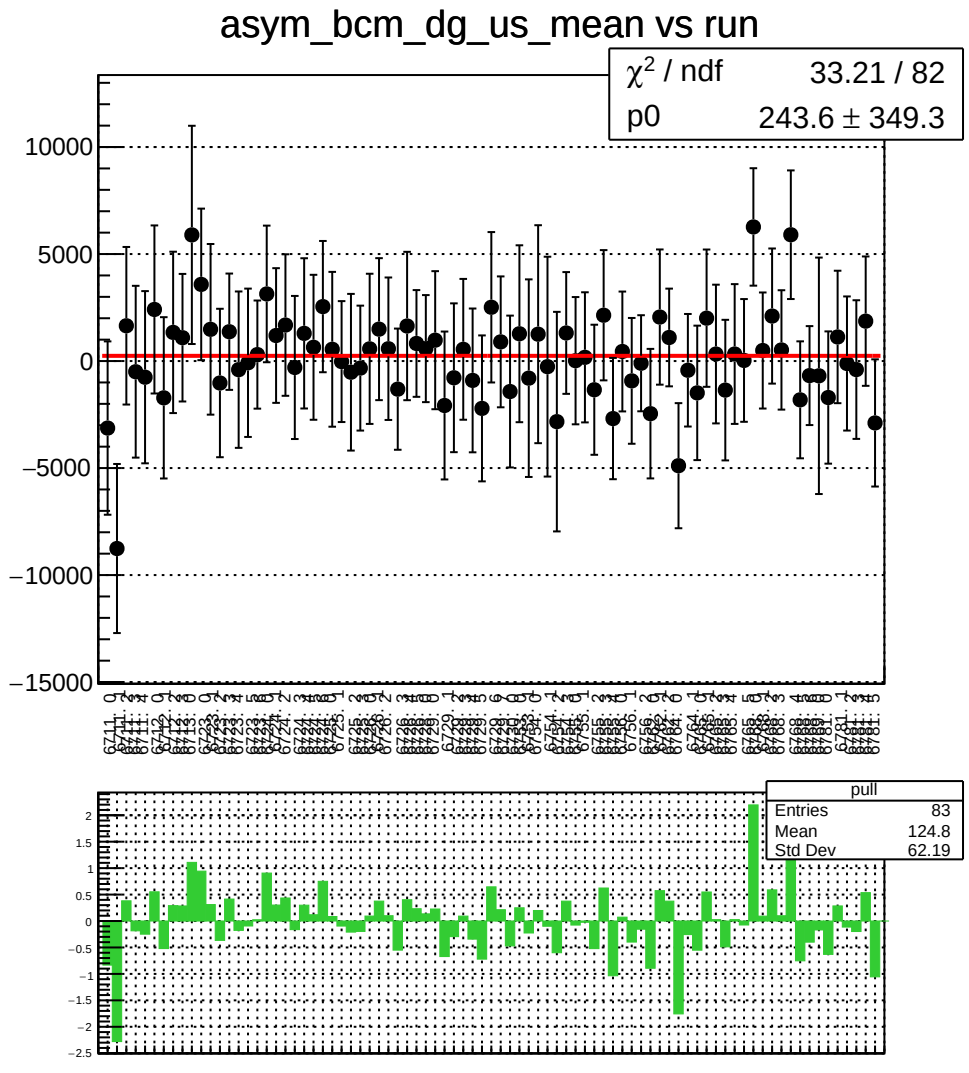

pull1D
Entries 83
Mean −0.004569
Std Dev 0.6232
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

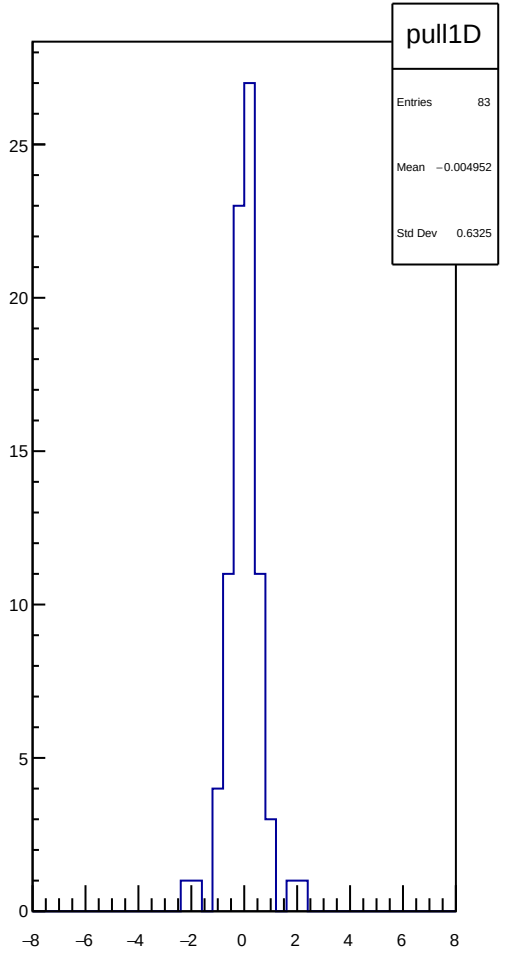

asym_bcm_an_ds3_rms vs run
χ² / ndf 3.136e+04 / 82
p0 306.6 ± 0.2422
500
450
400
350
300
250

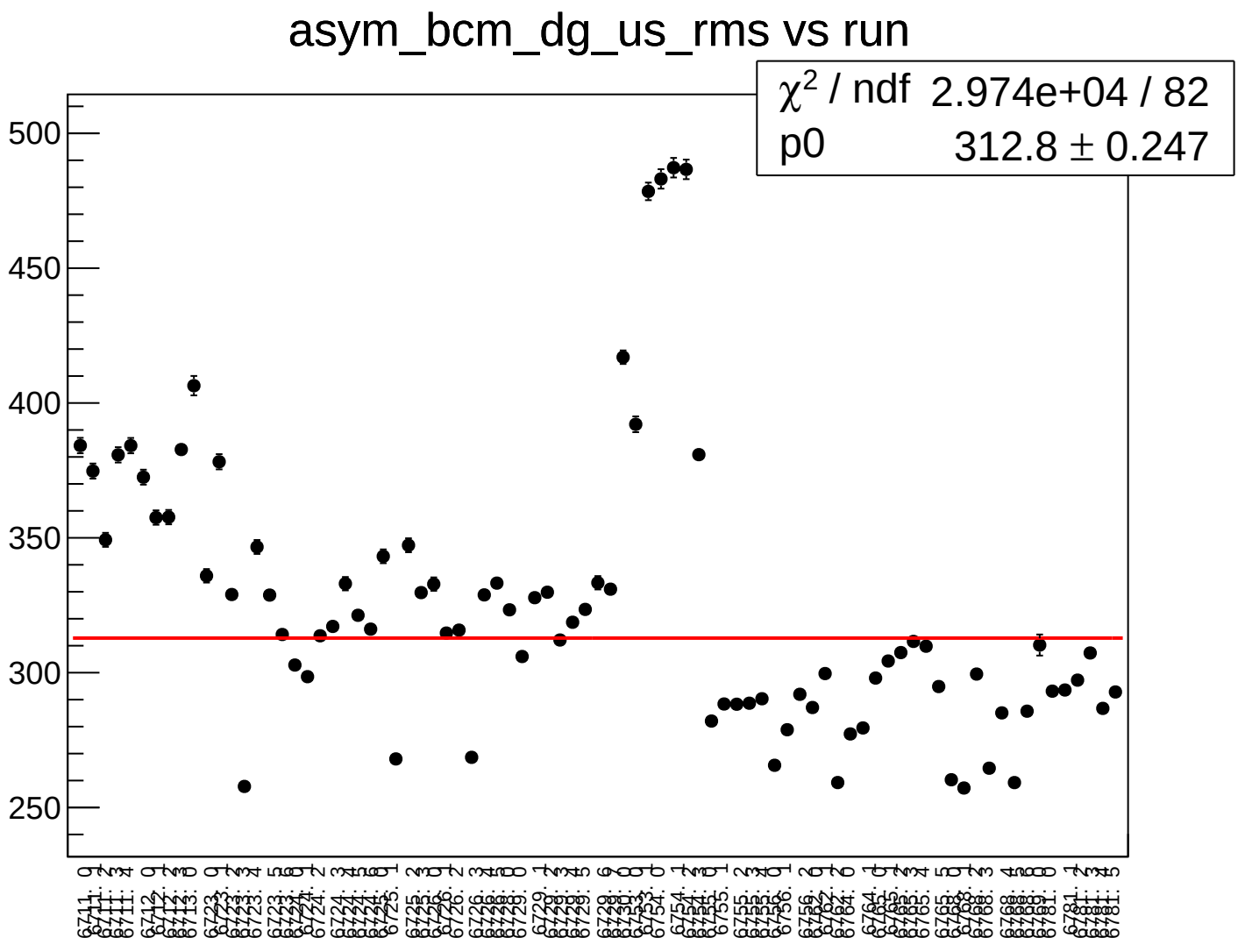

asym_bcm_an_us_mean vs run
χ² / ndf 32.17 / 82
p0 240 ± 341.6
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 69.66
Std Dev 34.44
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

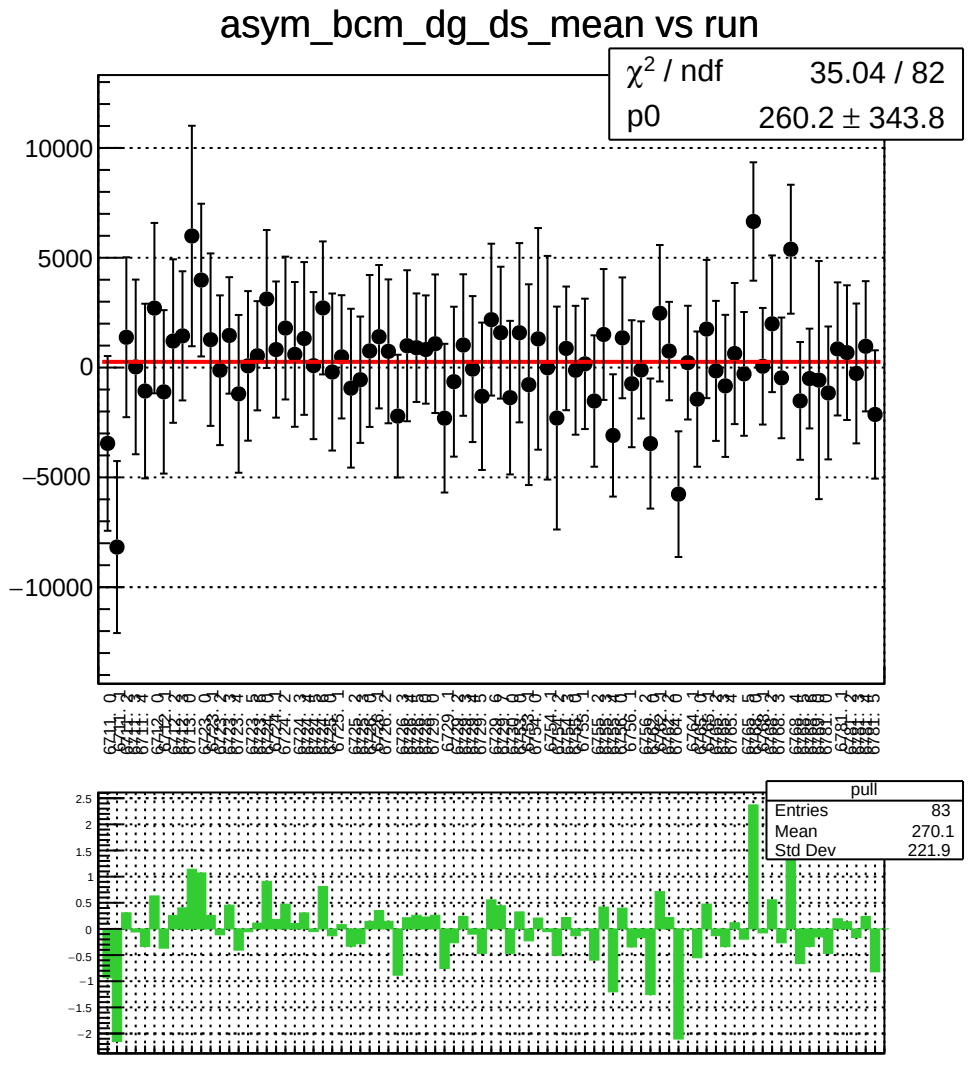

pull1D
Entries 83
Mean −0.004186
Std Dev 0.6225
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

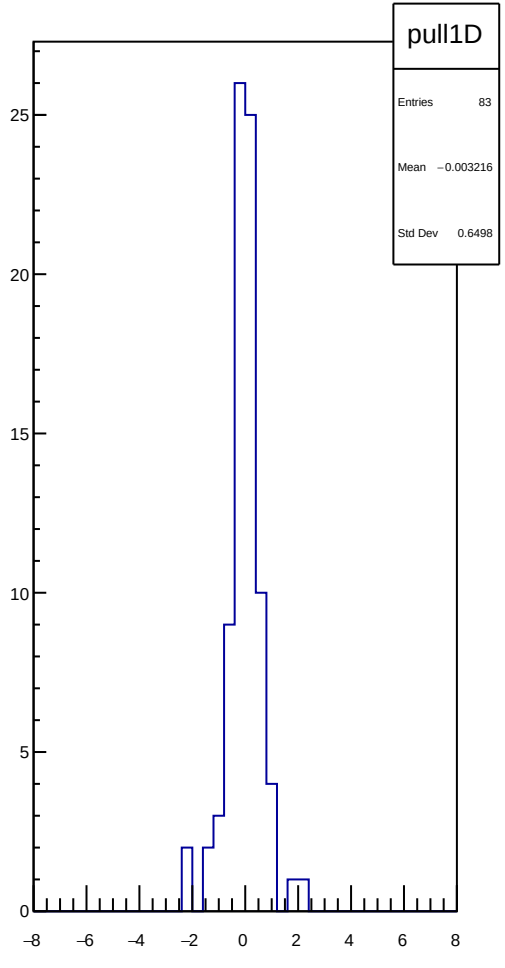

asym_bcm_an_us_rms vs run
χ² / ndf 3.121e+04 / 82
p0 305.8 ± 0.2415
500
450
400
350
300
250

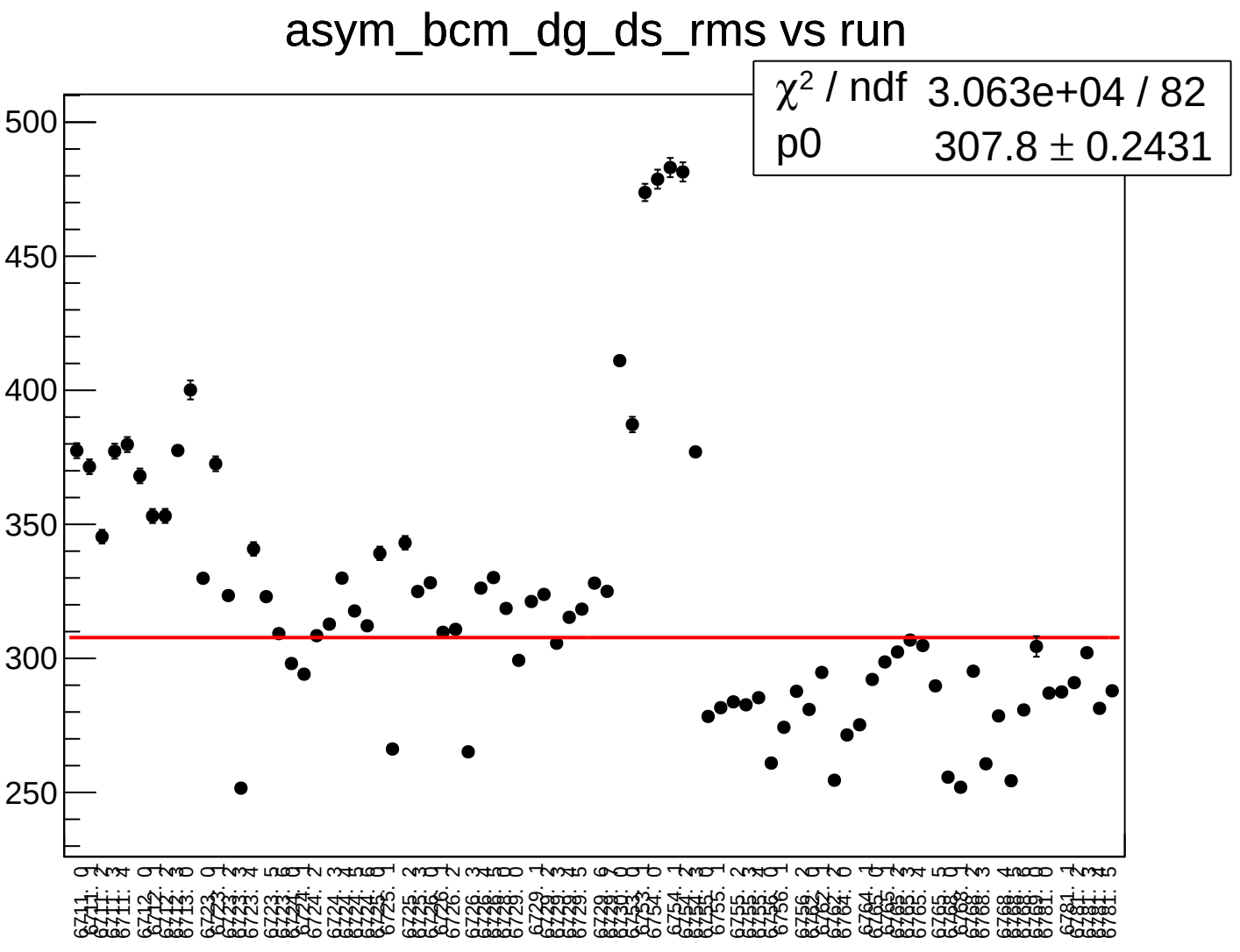

asym_bcm_dg_us_mean vs run
χ² / ndf 33.21 / 82
p0 243.6 ± 349.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 124.8
Std Dev 62.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

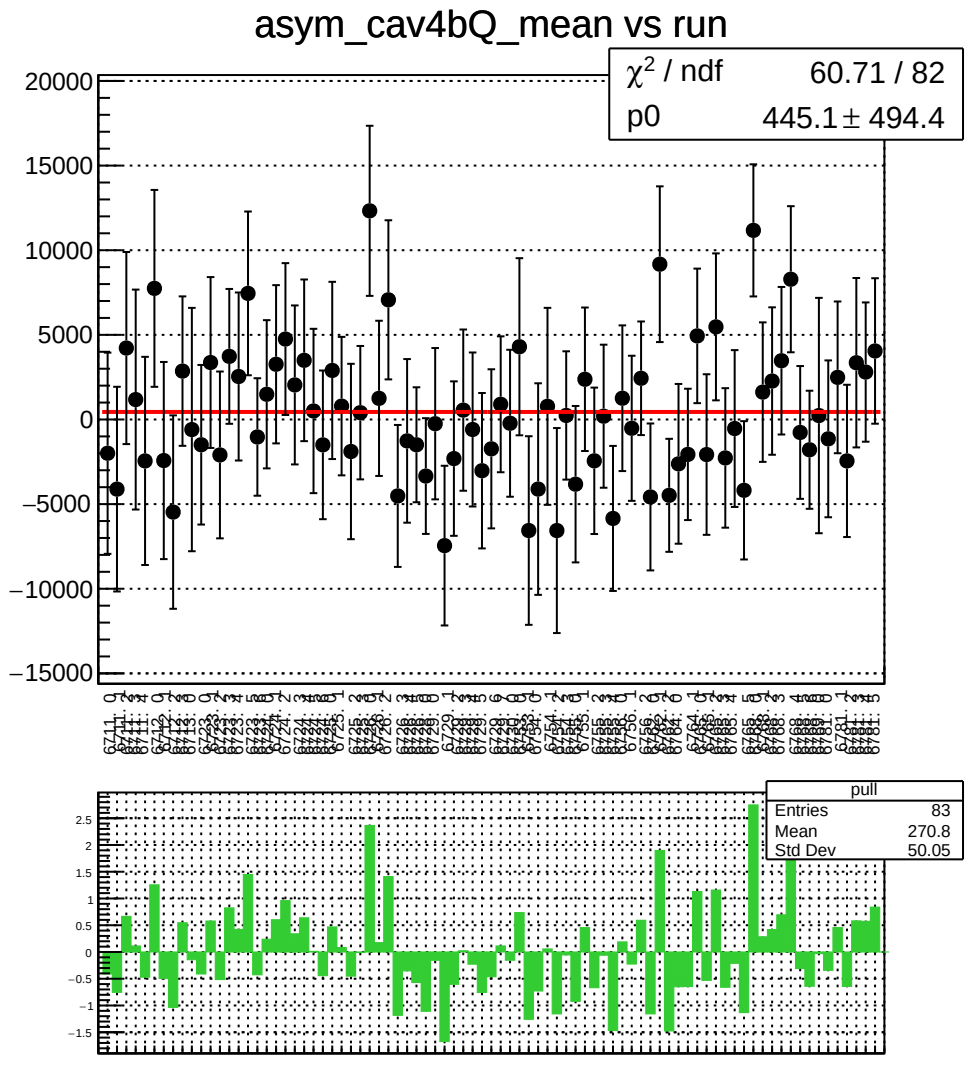

pull1D
Entries 83
Mean −0.004952
Std Dev 0.6325
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

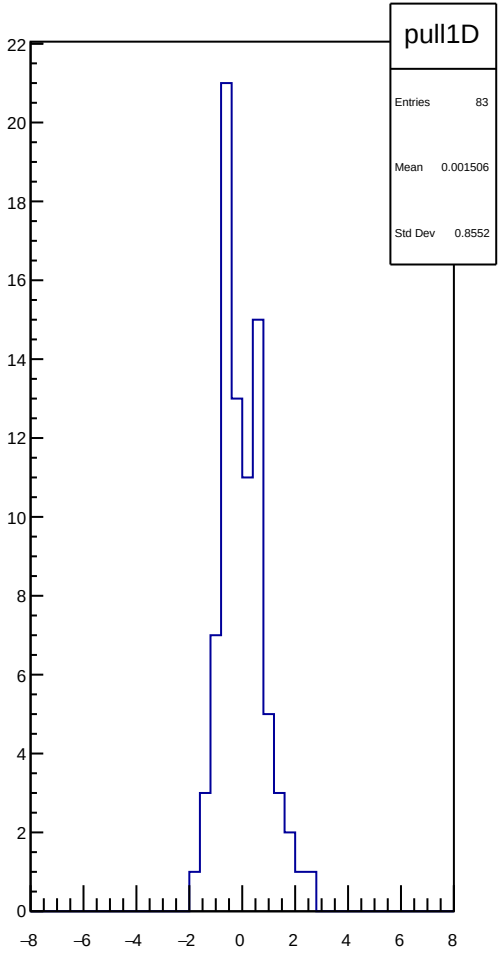

asym_bcm_dg_us_rms vs run
χ^2 / ndf 2.974e+04 / 82
p0 312.8 ± 0.247
500
450
400
350
300
250

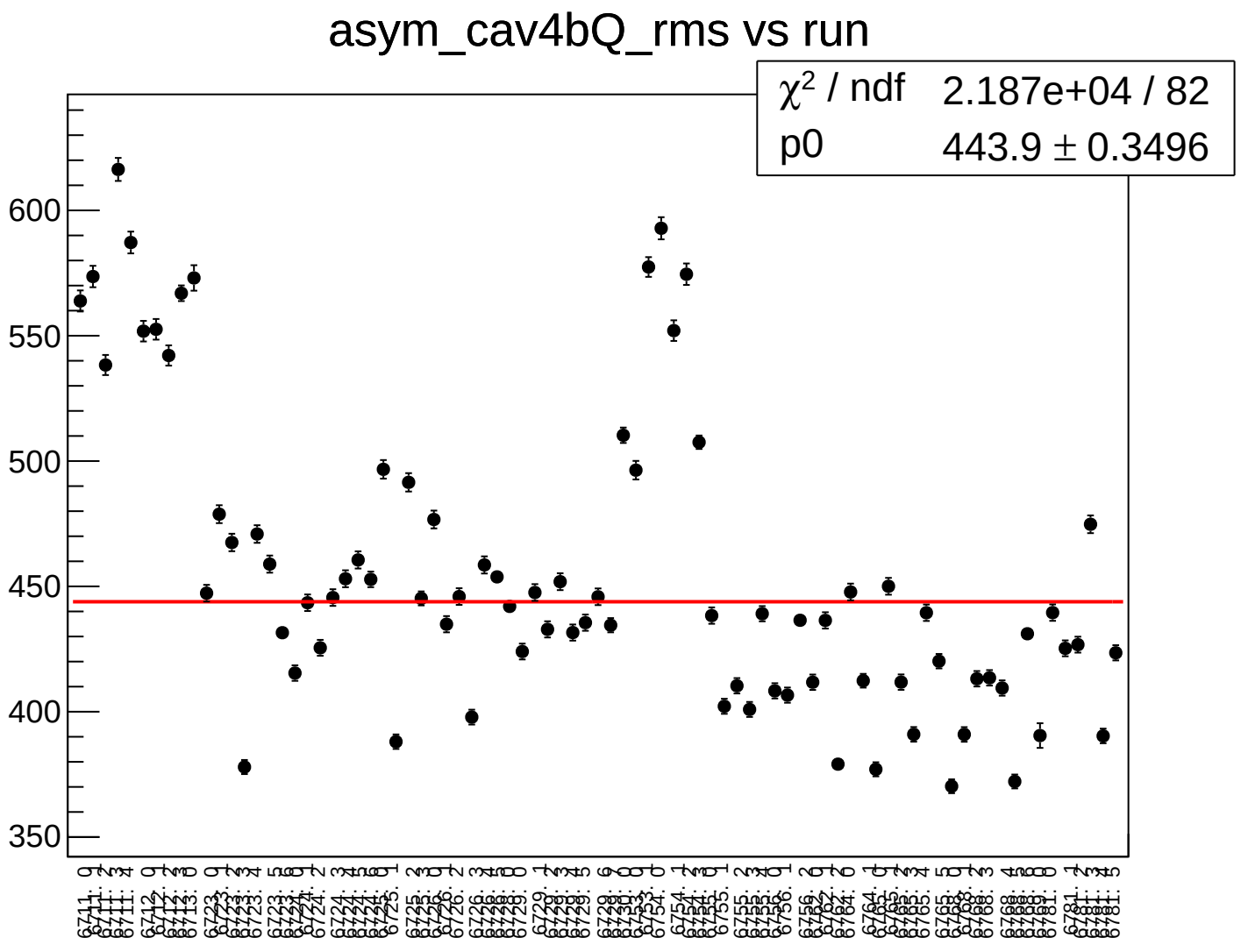

asym_bcm_dg_ds_mean vs run
χ² / ndf 35.04 / 82
p0 260.2 ± 343.8
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 270.1
Std Dev 221.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

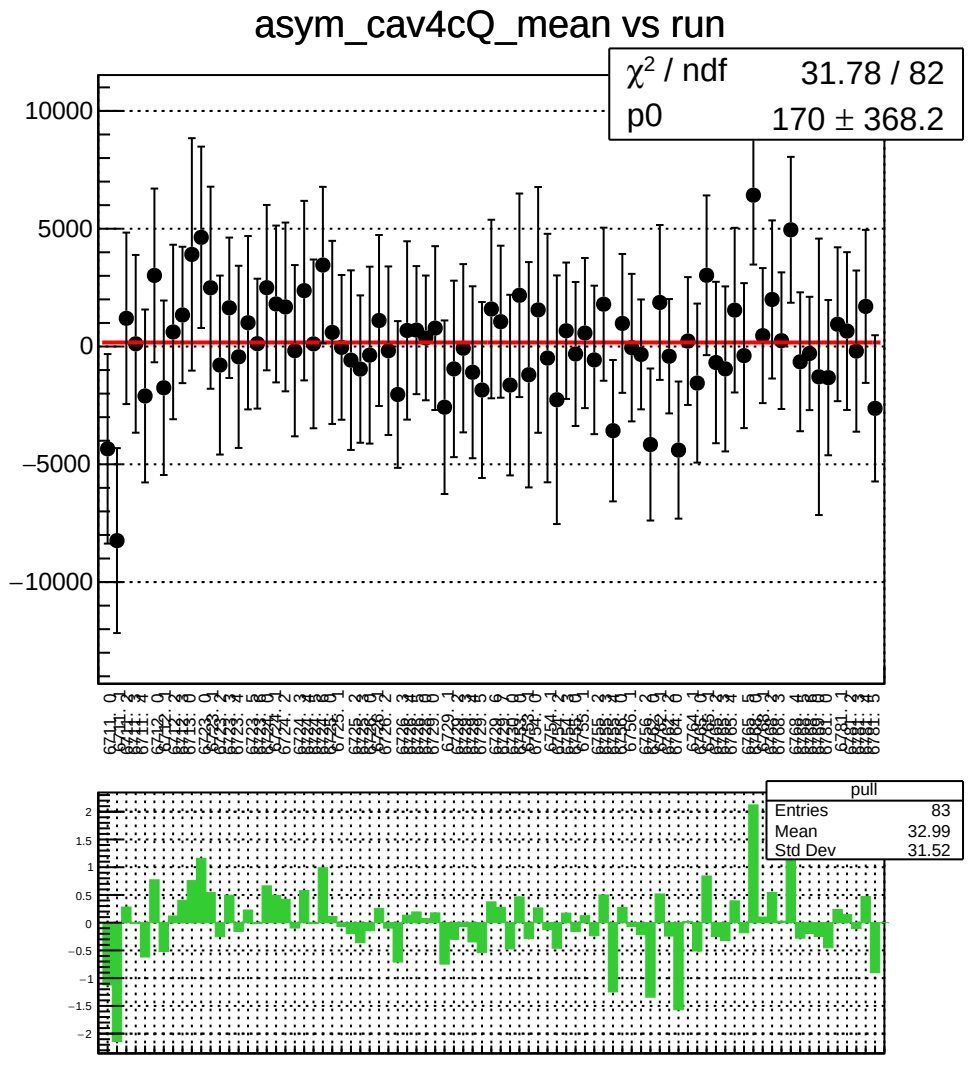

pull1D
Entries 83
Mean −0.003216
Std Dev 0.6498
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

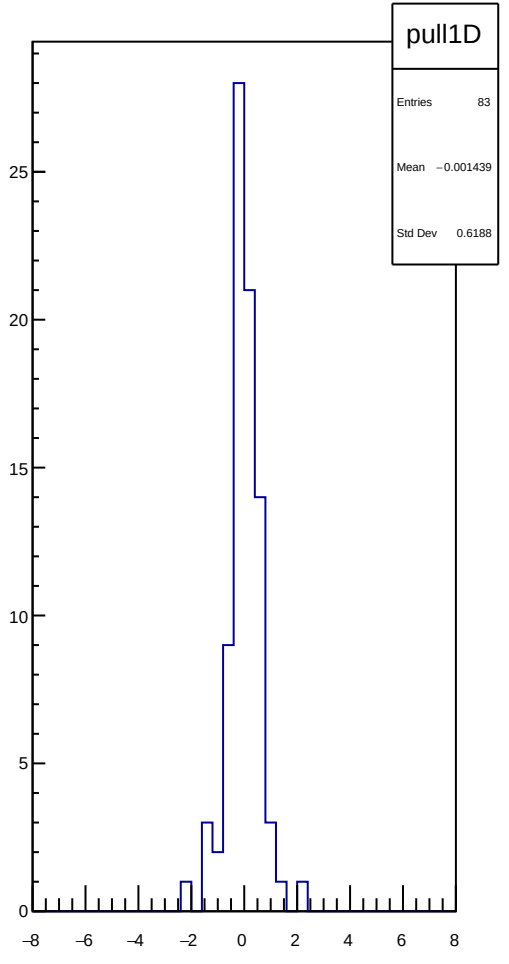

asym_bcm_dg_ds_rms vs run
χ² / ndf 3.063e+04 / 82
p0 307.8 ± 0.2431
500
450
400
350
300
250

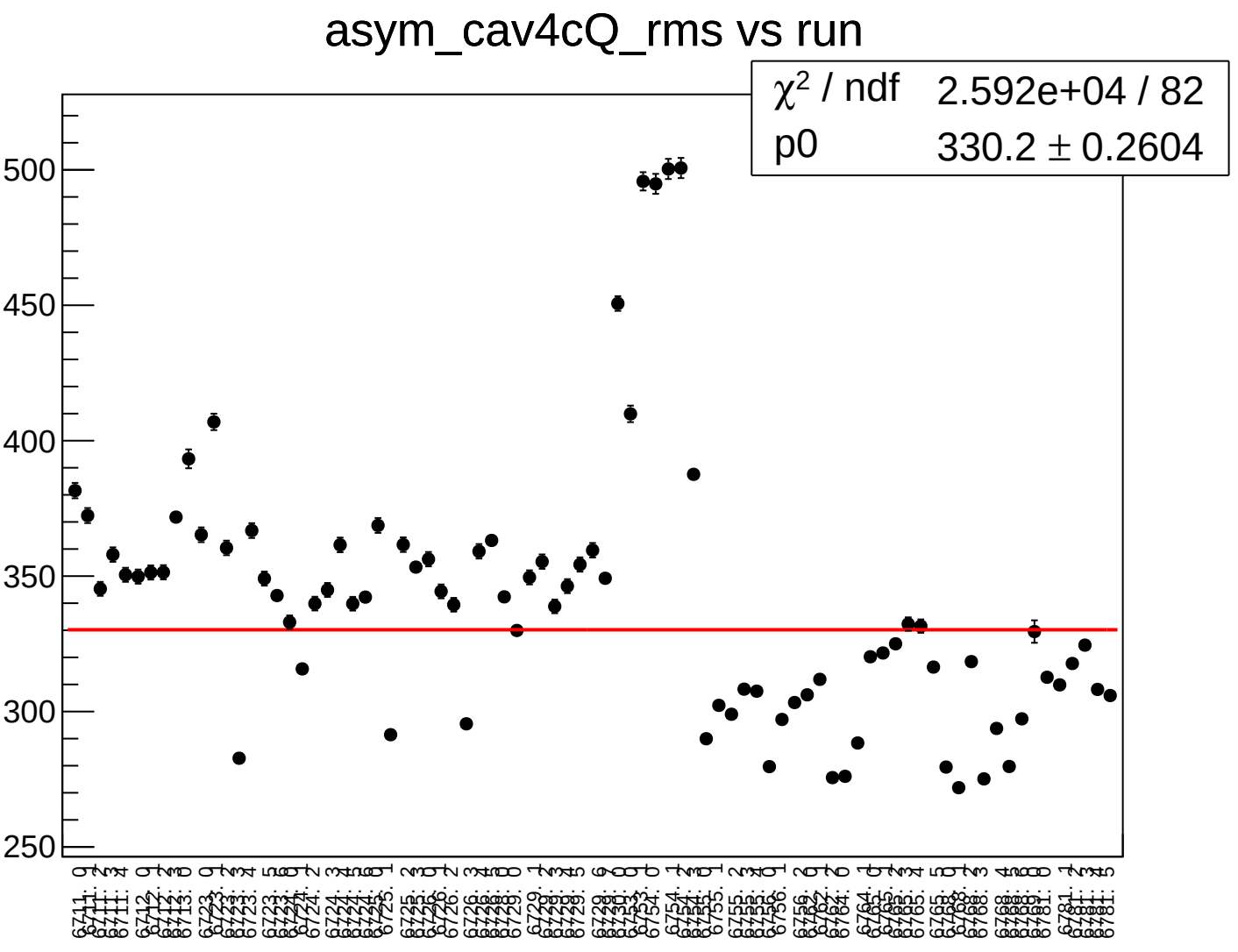

asym_cav4bQ_mean vs run
χ² / ndf 60.71 / 82
p0 445.1 ± 494.4
pull
Entries 83
Mean 270.8
Std Dev 50.05

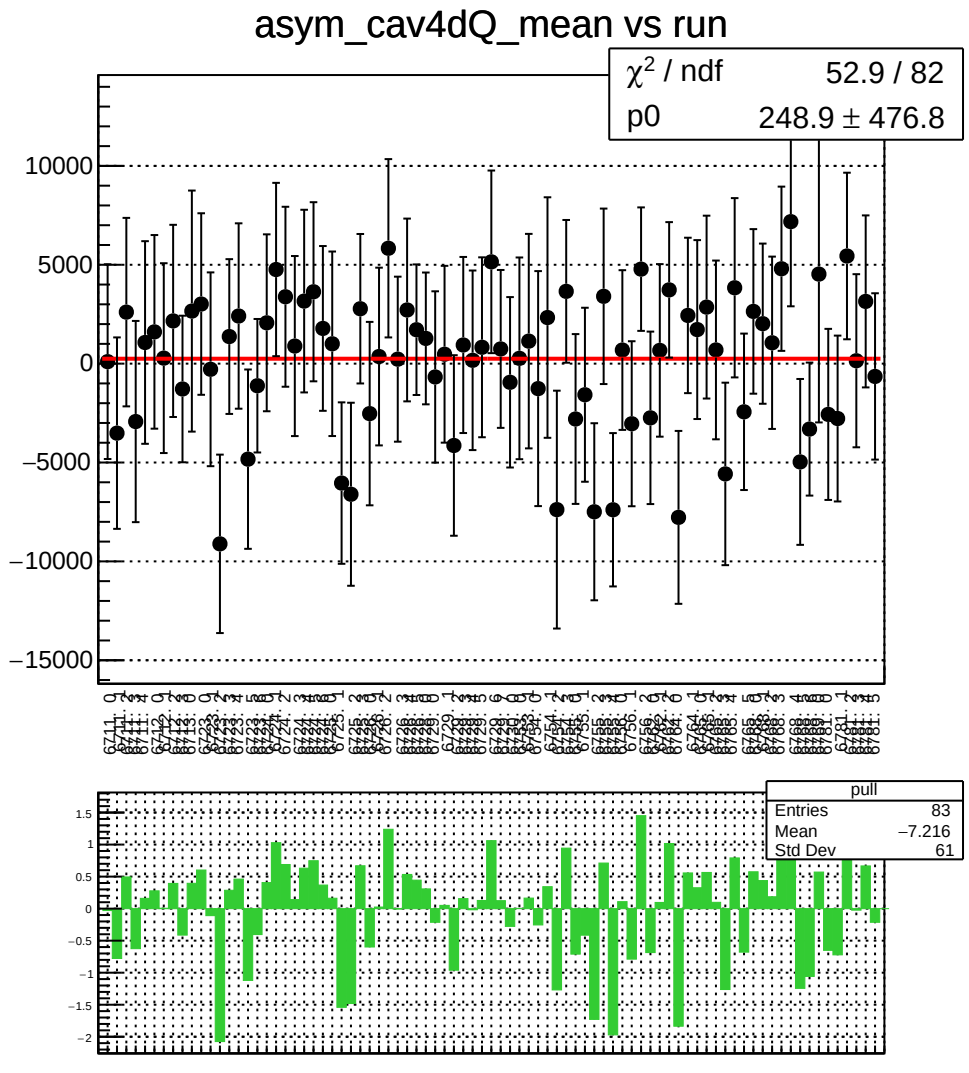

pull1D
Entries 83
Mean 0.001506
Std Dev 0.8552

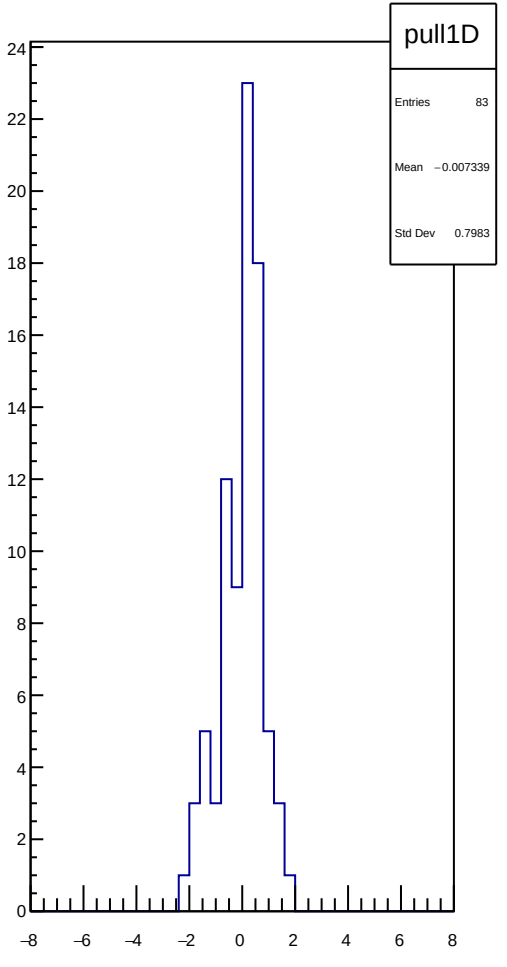

asym_cav4bQ_rms vs run
χ² / ndf 2.187e+04 / 82
p0 443.9 ± 0.3496
600
550
500
450
400
350

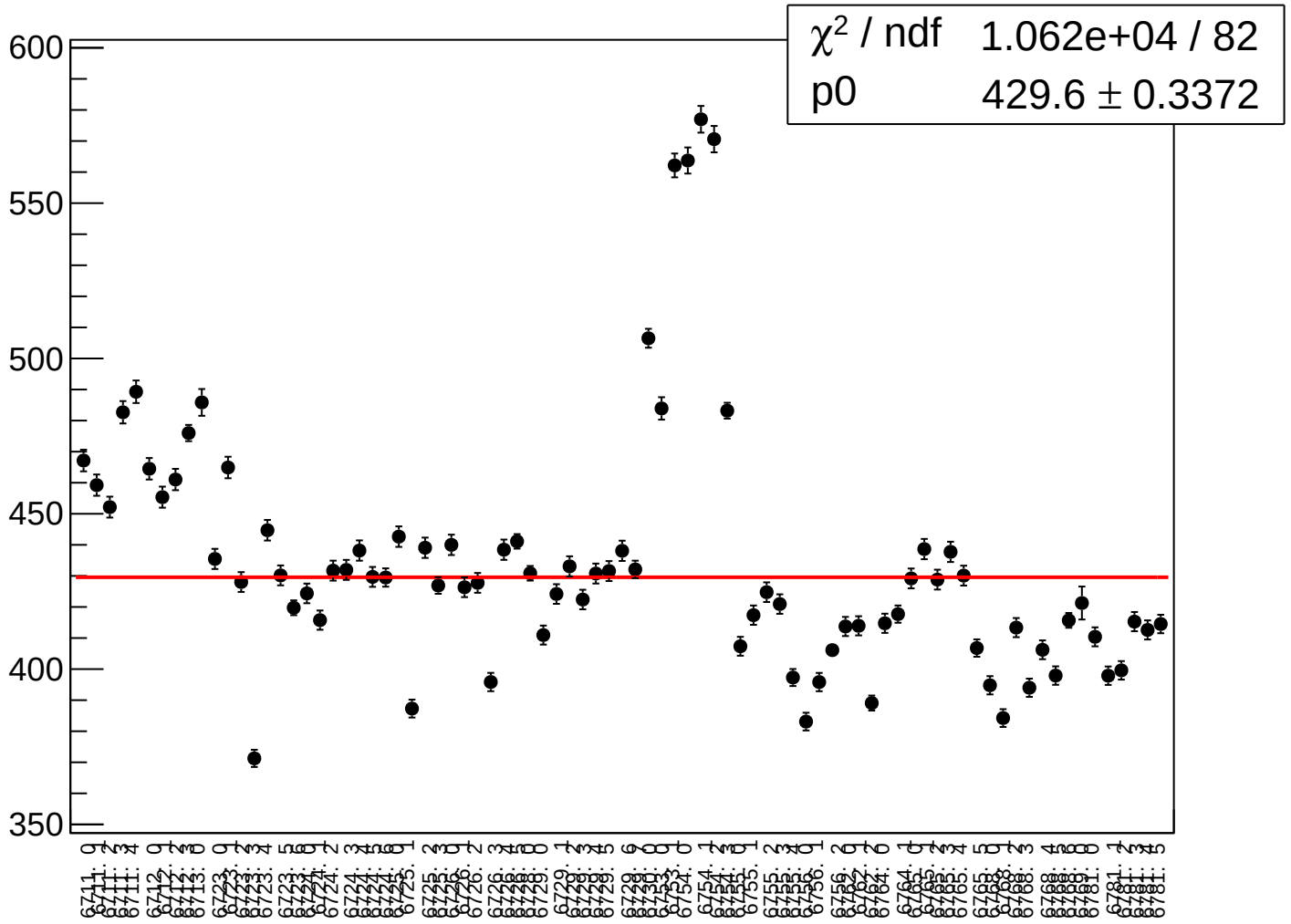

asym_cav4cQ_mean vs run
χ² / ndf 31.78 / 82
p0 170 ± 368.2
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 32.99
Std Dev 31.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

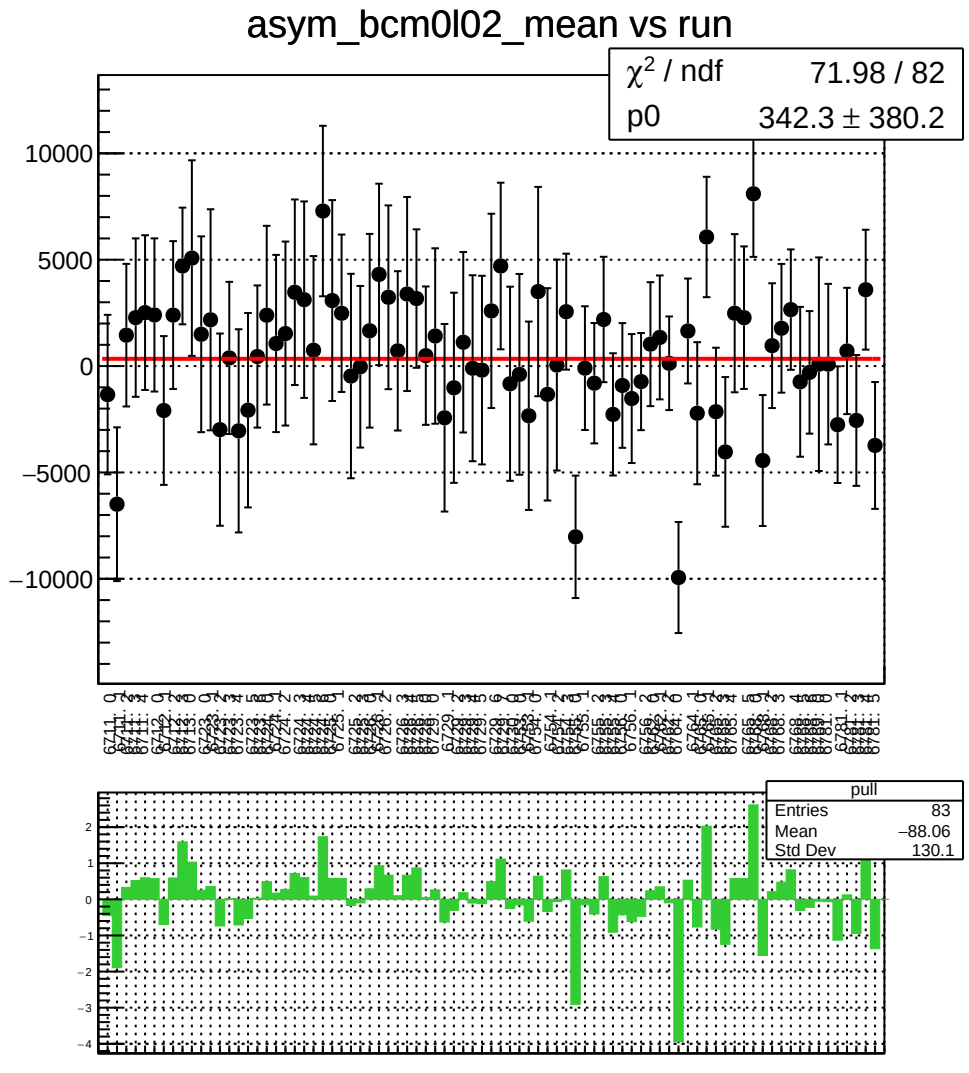

pull1D
Entries 83
Mean −0.001439
Std Dev 0.6188
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

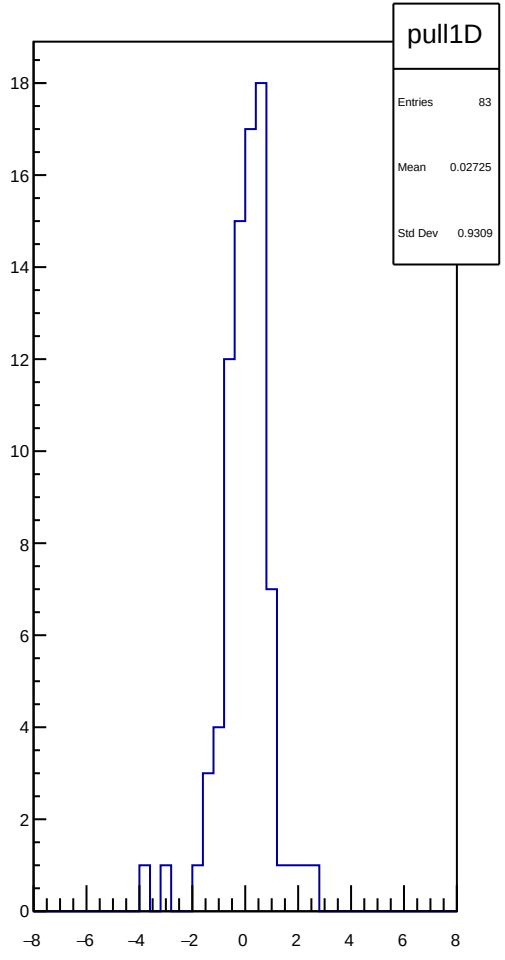

asym_cav4cQ_rms vs run
χ² / ndf 2.592e+04 / 82
p0 330.2 ± 0.2604
500
450
400
350
300
250

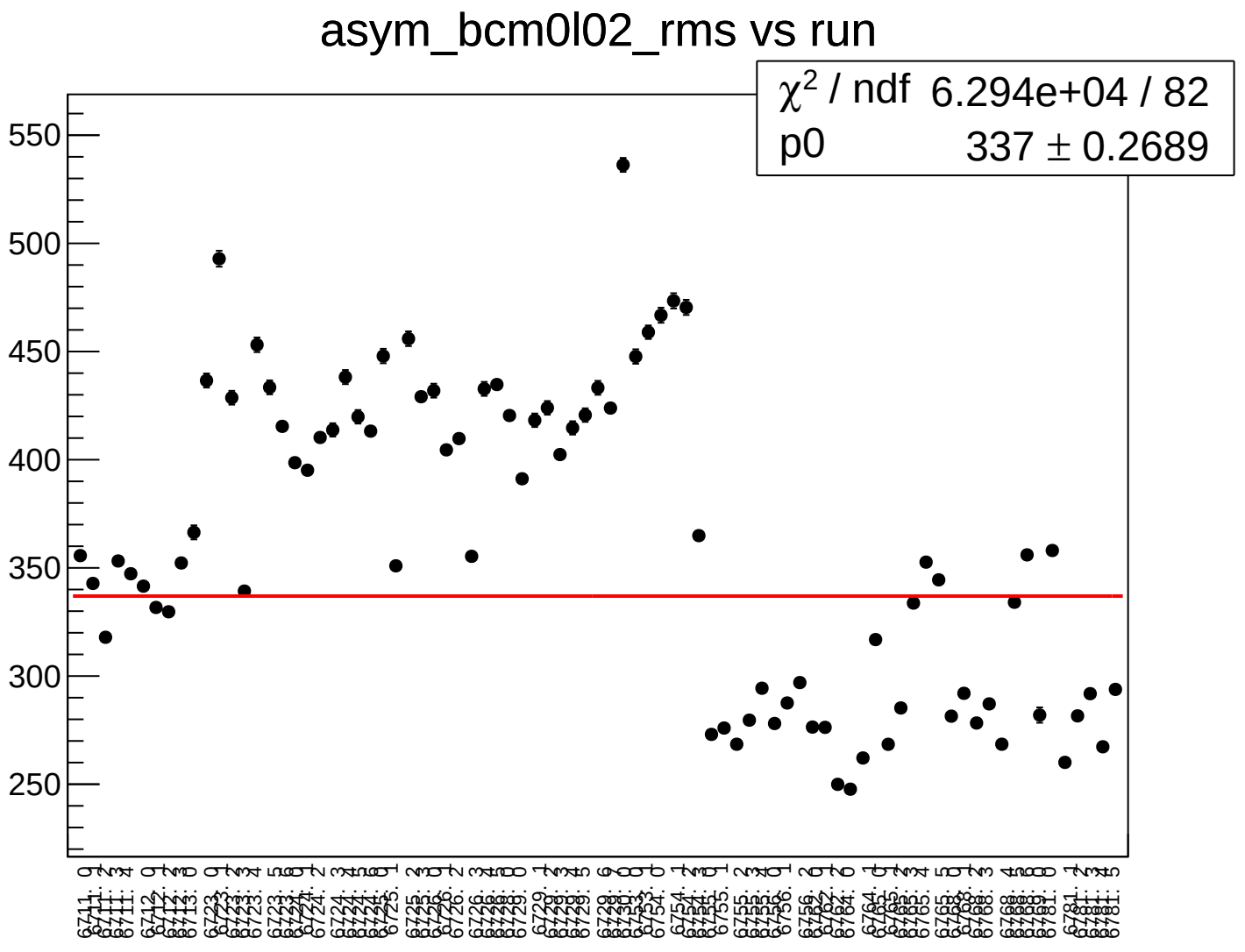

asym_cav4dQ_mean vs run
χ² / ndf 52.9 / 82
p0 248.9 ± 476.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −7.216
Std Dev 61
1.5
1
0.5
0
−0.5
−1
−1.5
−2

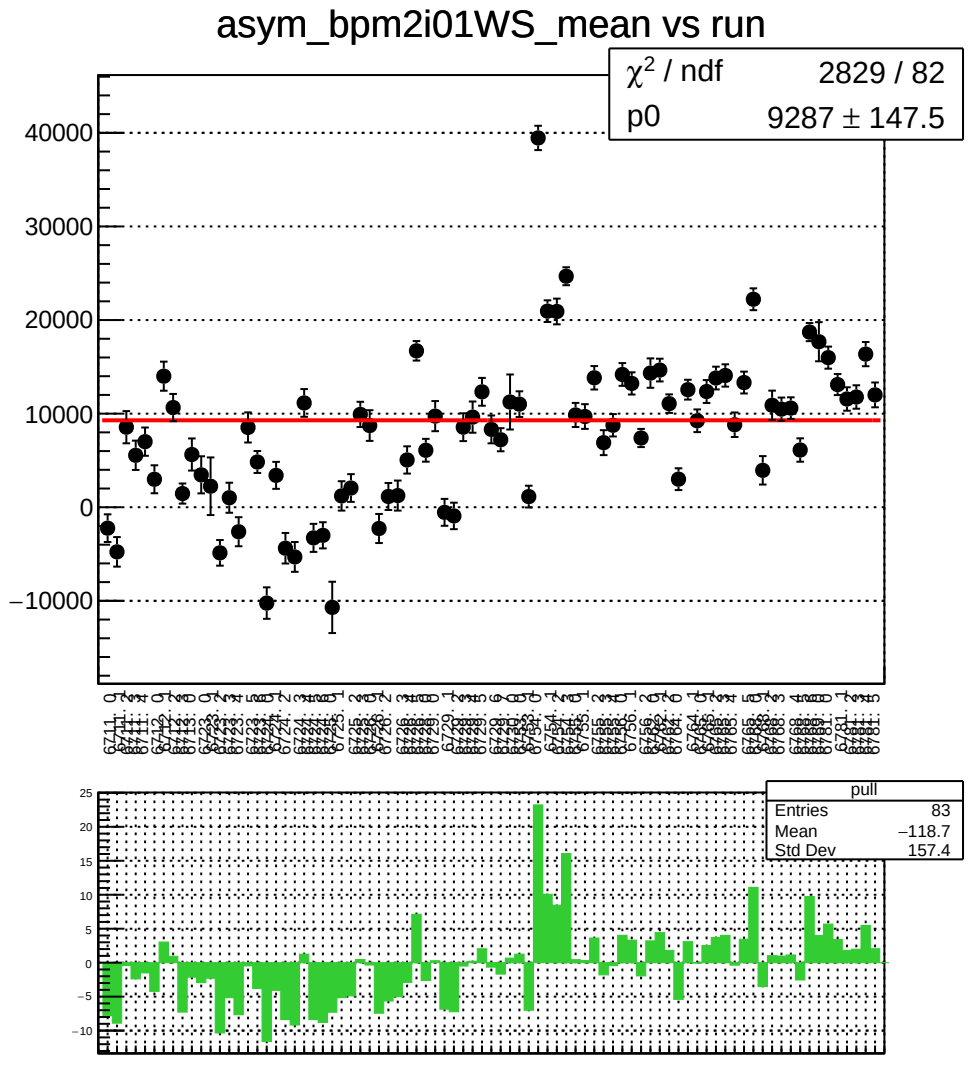

pull1D
Entries 83
Mean −0.007339
Std Dev 0.7983
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

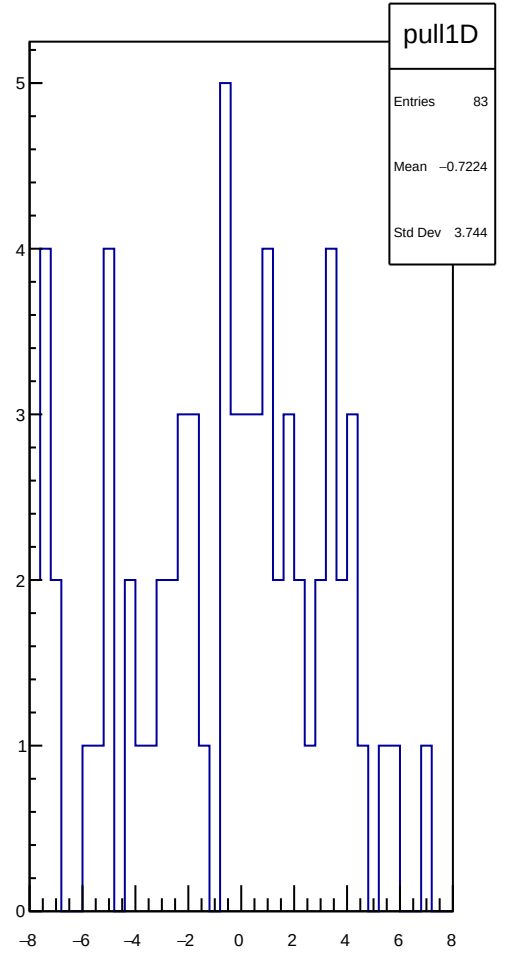

asym_cav4dQ_rms vs run
χ^2 / ndf 1.062e+04 / 82
p0 429.6 ± 0.3372
600
550
500
450
400
350

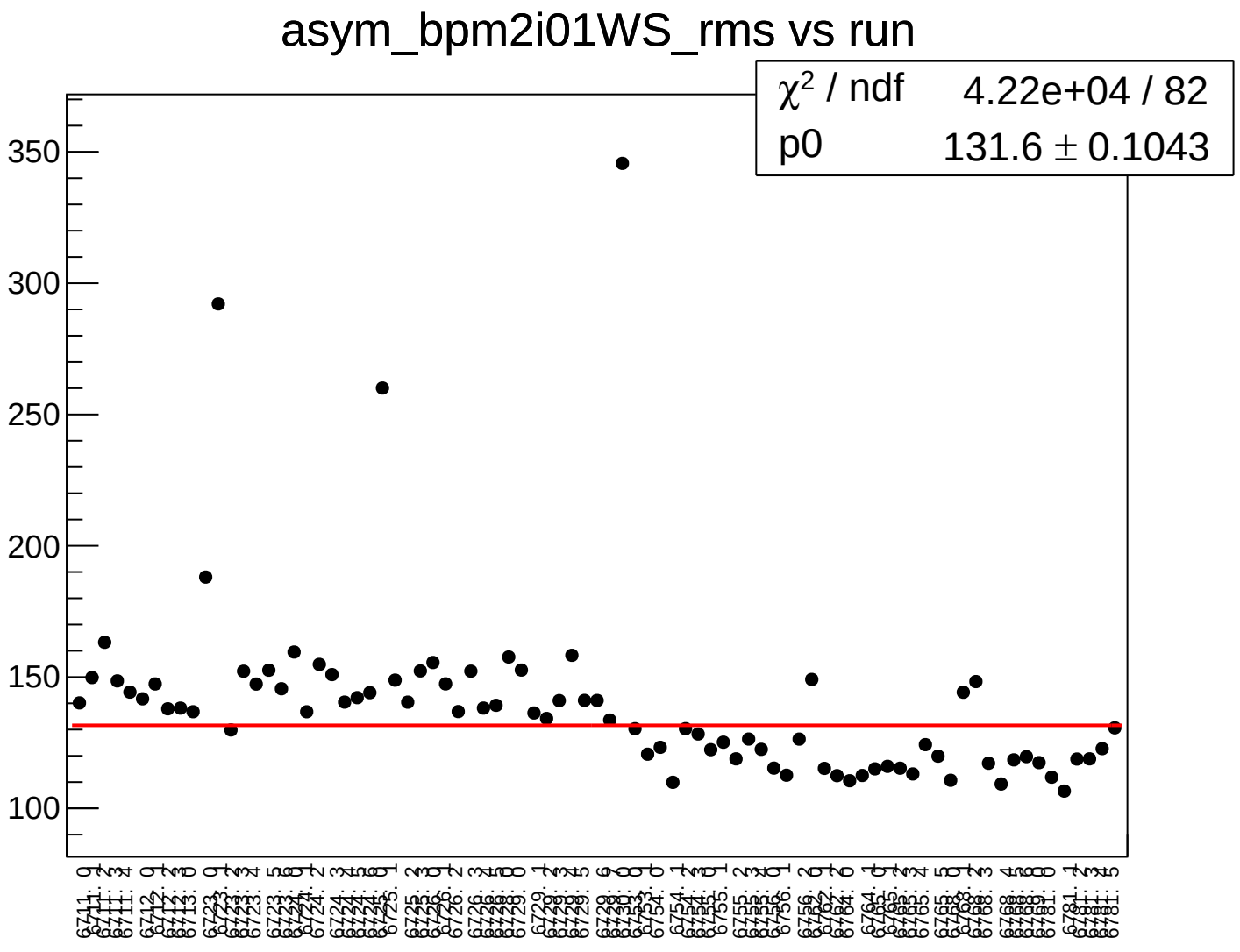

asym_bcm0l02_mean vs run
χ^2 / ndf 71.98 / 82
p0 342.3 ± 380.2
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −88.06
Std Dev 130.1
2
1
0
−1
−2
−3
−4

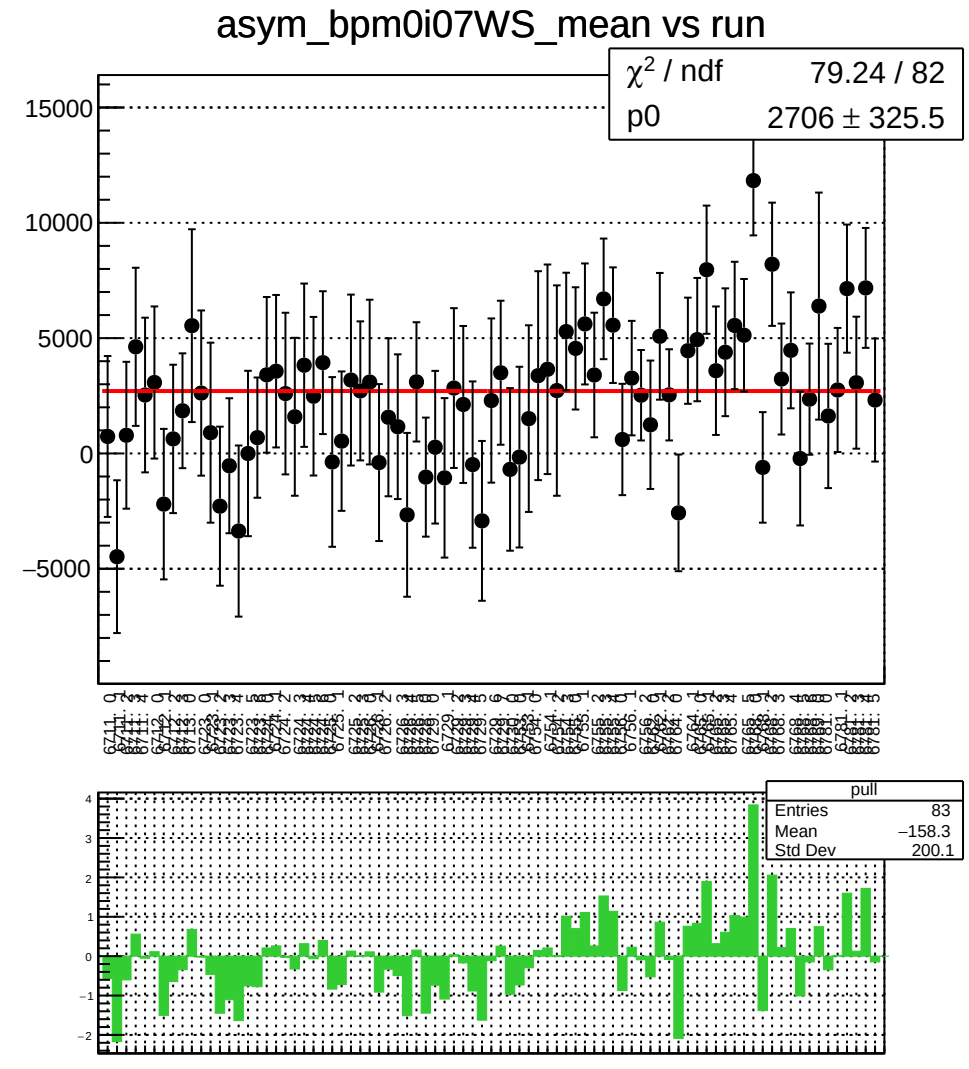

pull1D
Entries 83
Mean 0.02725
Std Dev 0.9309
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

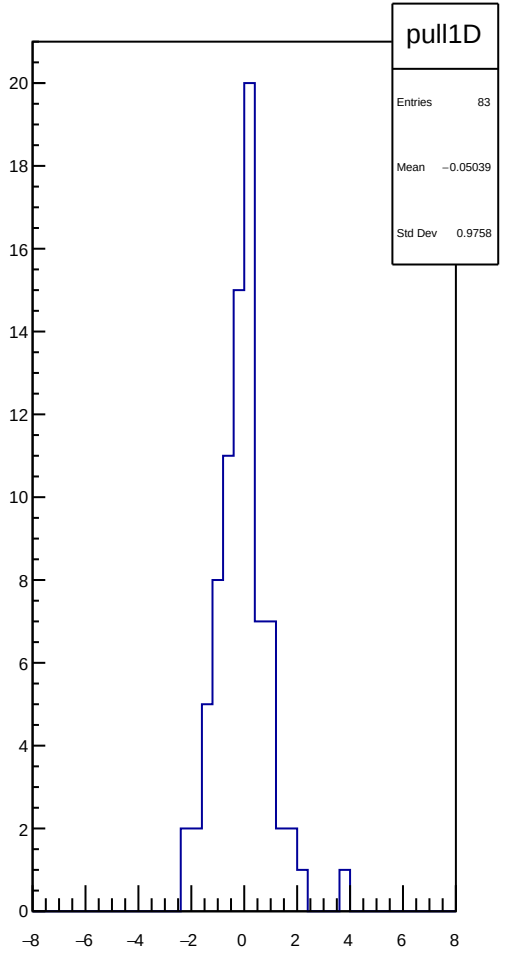

asym_bcm0l02_rms vs run
χ^2 / ndf 6.294e+04 / 82
p0 337 ± 0.2689
550
500
450
400
350
300
250

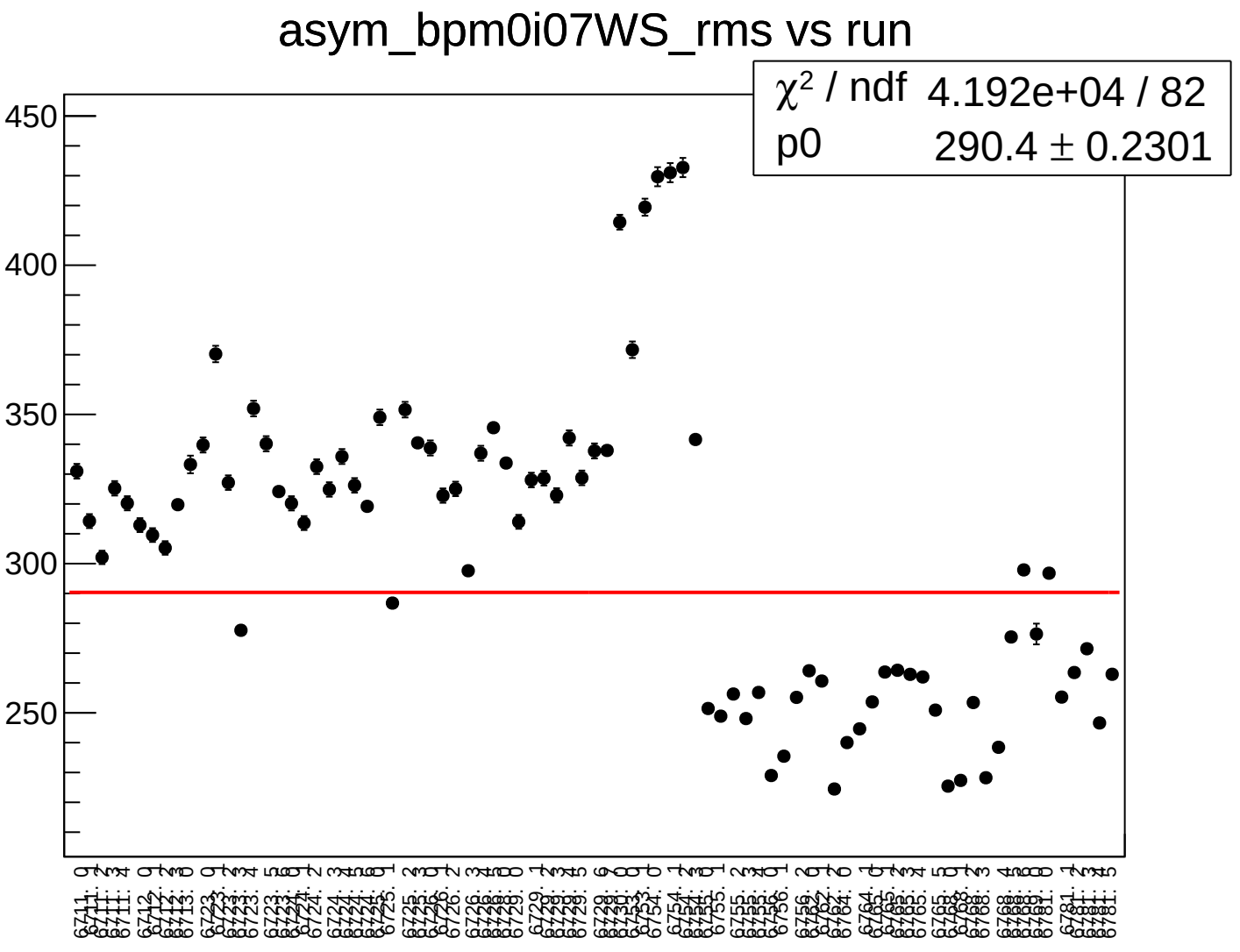

asym_bpm2i01WS_mean vs run
χ² / ndf 2829 / 82
p0 9287 ± 147.5
40000
30000
20000
10000
0
−10000
pull
Entries 83
Mean −118.7
Std Dev 157.4
25
20
15
10
5
0
−5
−10

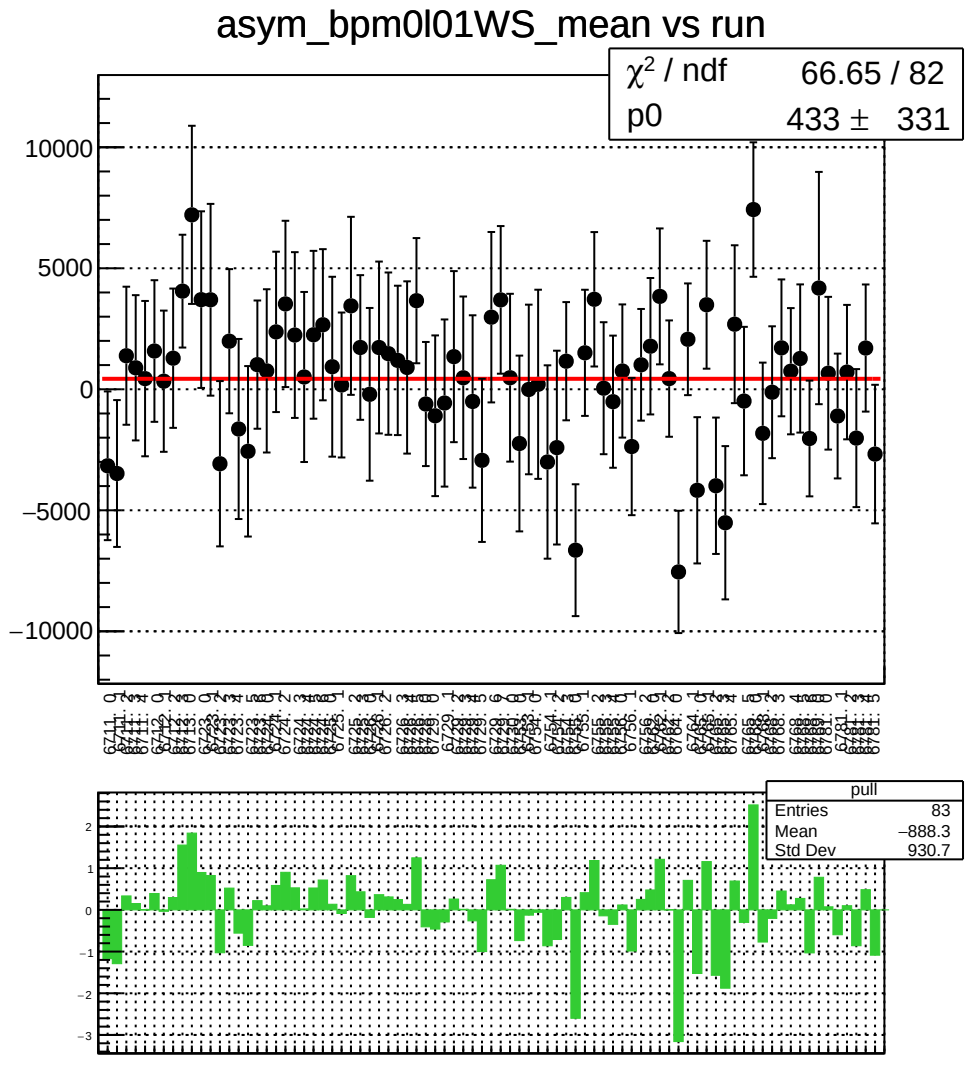

pull1D
Entries 83
Mean −0.7224
Std Dev 3.744
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

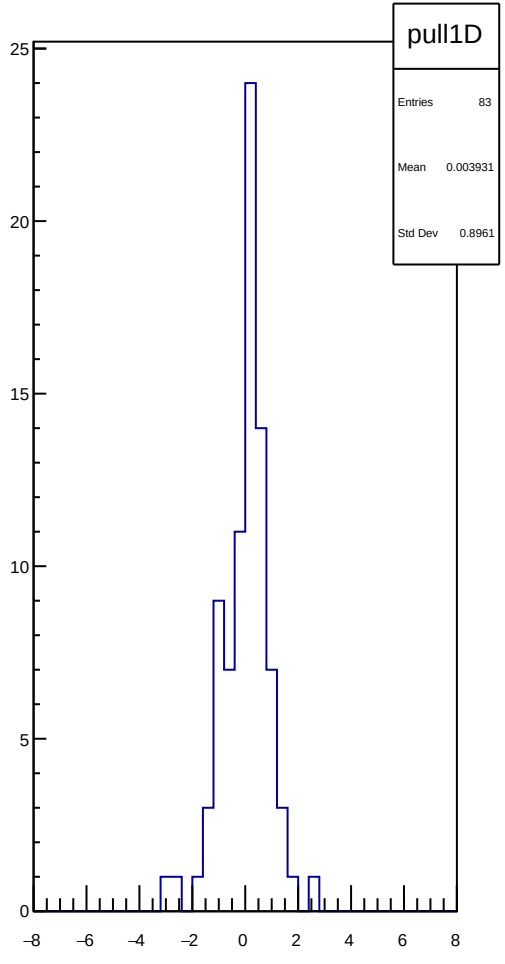

asym_bpm2i01WS_rms vs run
χ^2 / ndf 4.22e+04 / 82
p0 131.6 ± 0.1043
350
300
250
200
150
100

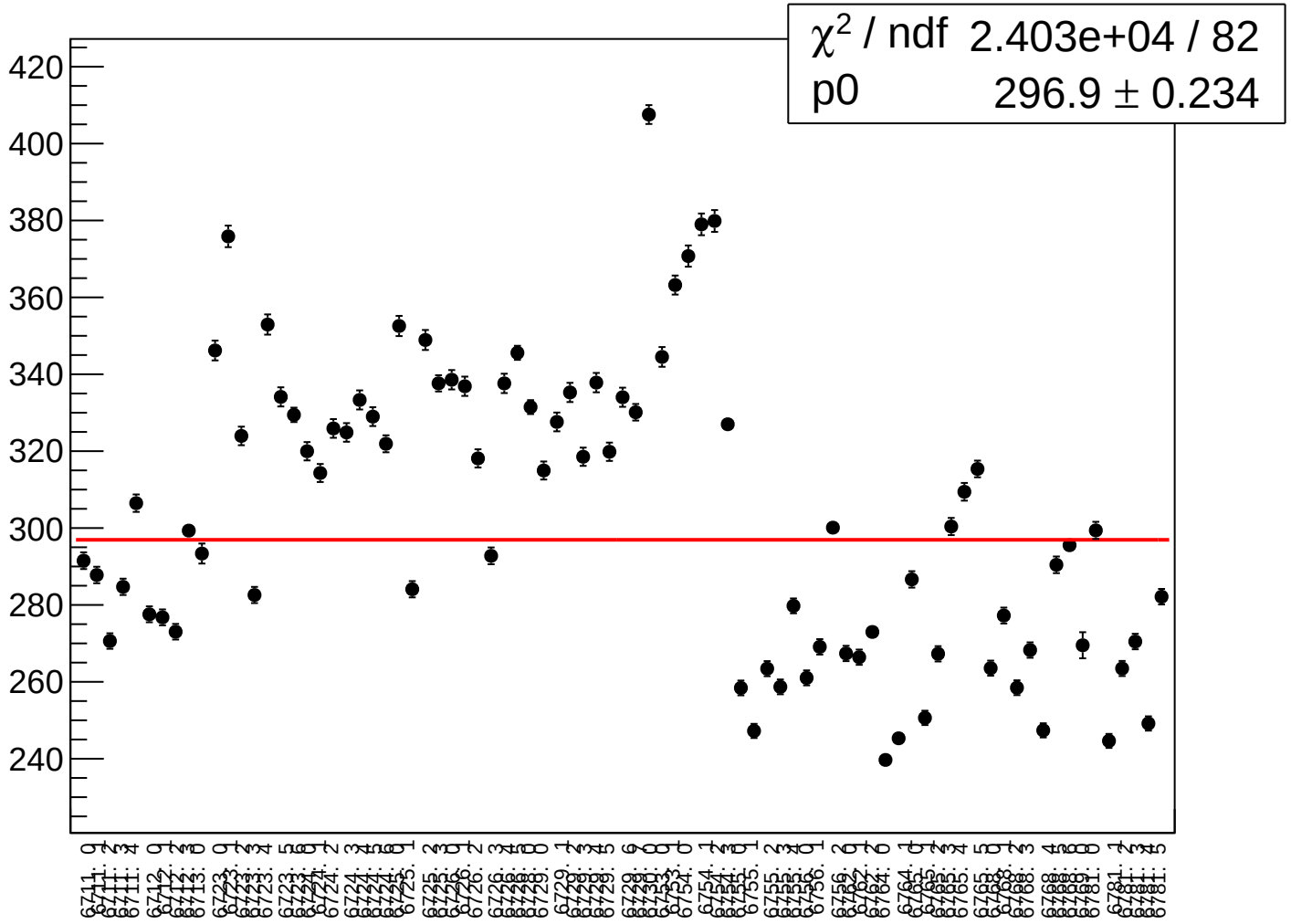

asym_bpm0i07WS_mean vs run
χ² / ndf 79.24 / 82
p0 2706 ± 325.5
15000
10000
5000
0
−5000
pull
Entries 83
Mean −158.3
Std Dev 200.1
4
3
2
1
0
−1
−2

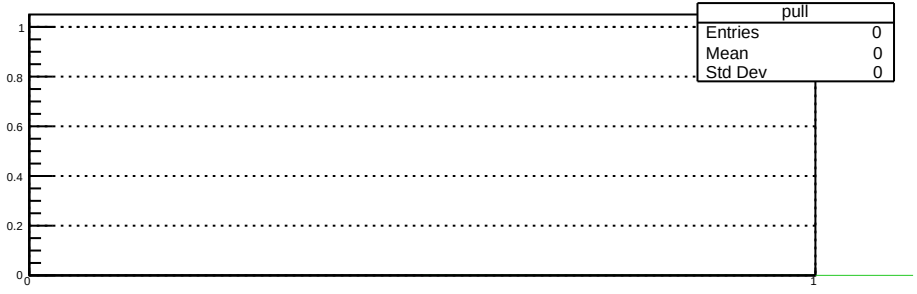

pull1D
Entries 83
Mean −0.05039
Std Dev 0.9758
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

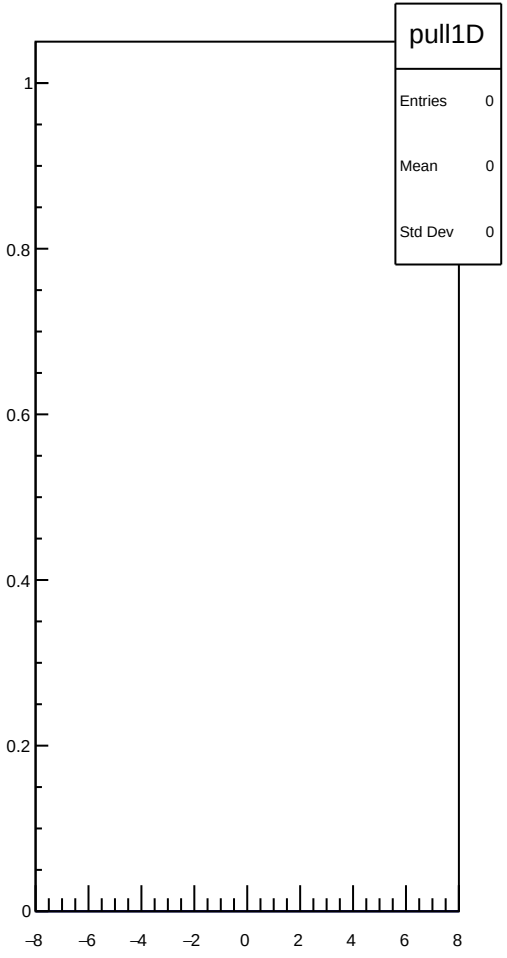

asym_bpm0i07WS_rms vs run
χ² / ndf 4.192e+04 / 82
p0 290.4 ± 0.2301
450
400
350
300
250

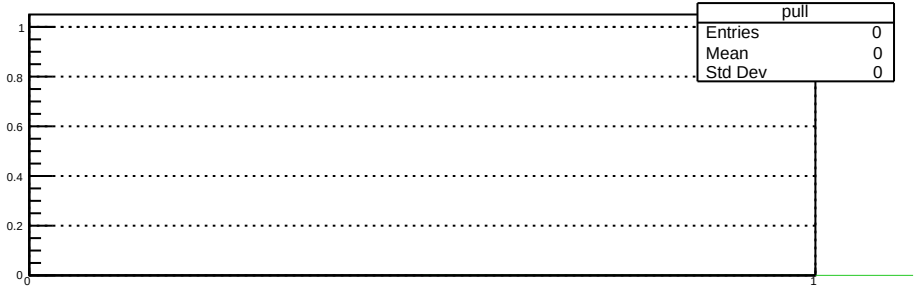

asym_bpm0l01WS_mean vs run
χ² / ndf 66.65 / 82
p0 433 ± 331
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −888.3
Std Dev 930.7
2
1
0
−1
−2
−3

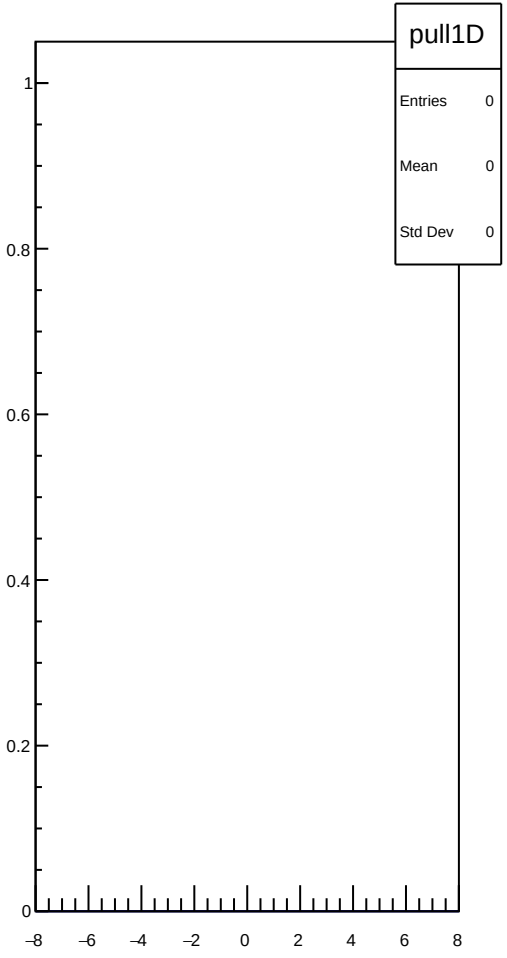

pull1D
Entries 83
Mean 0.003931
Std Dev 0.8961
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

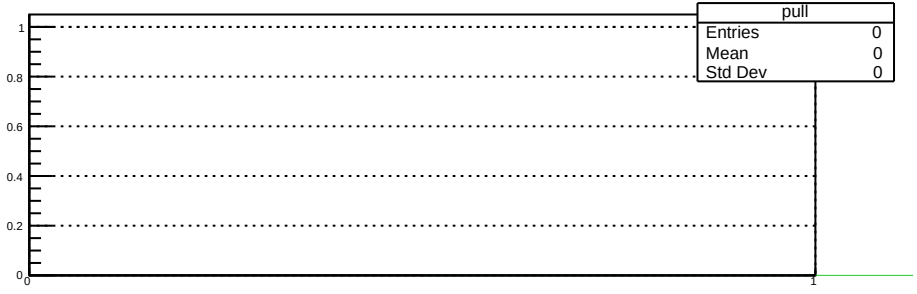

asym_bpm0l01WS_rms vs run
χ² / ndf 2.403e+04 / 82
p0 296.9 ± 0.234
420
400
380
360
340
320
300
280
260
240

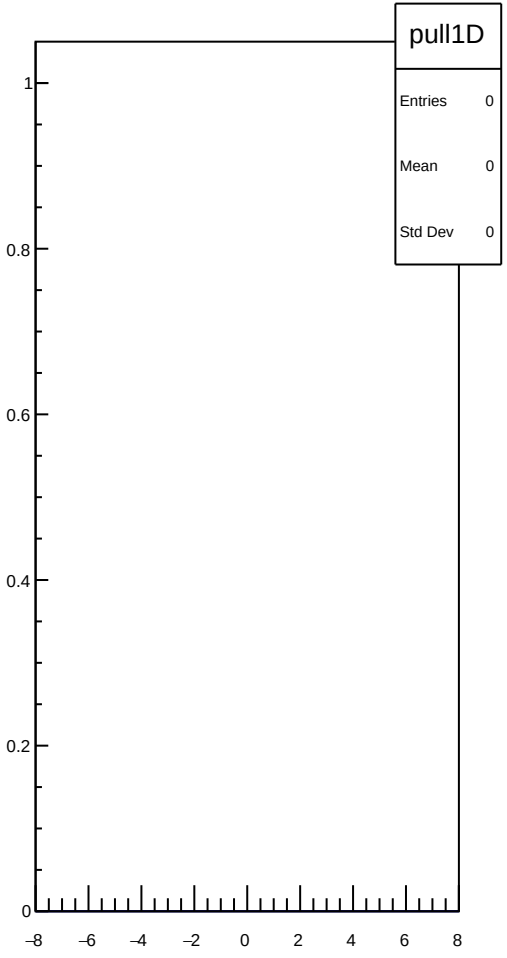

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

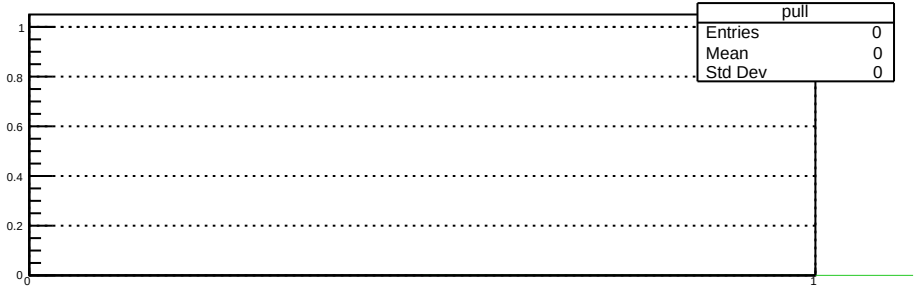

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

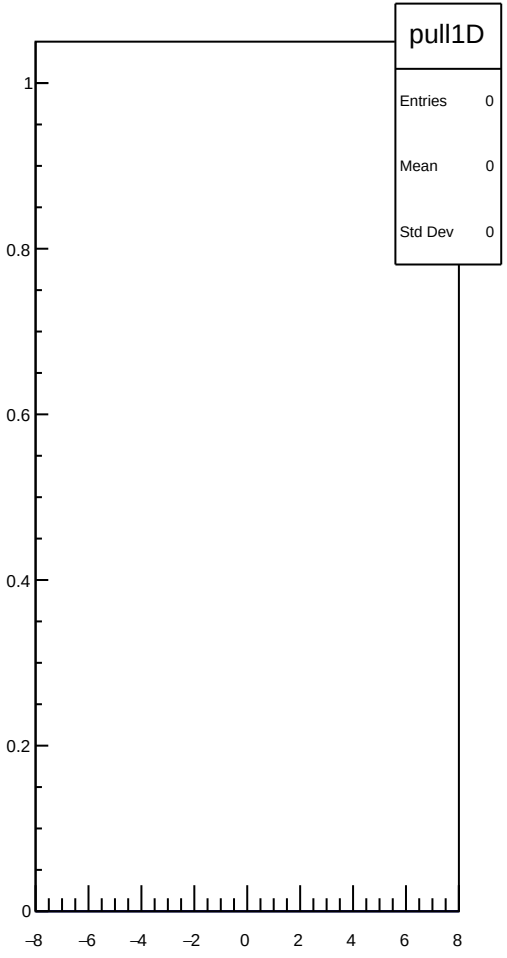

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

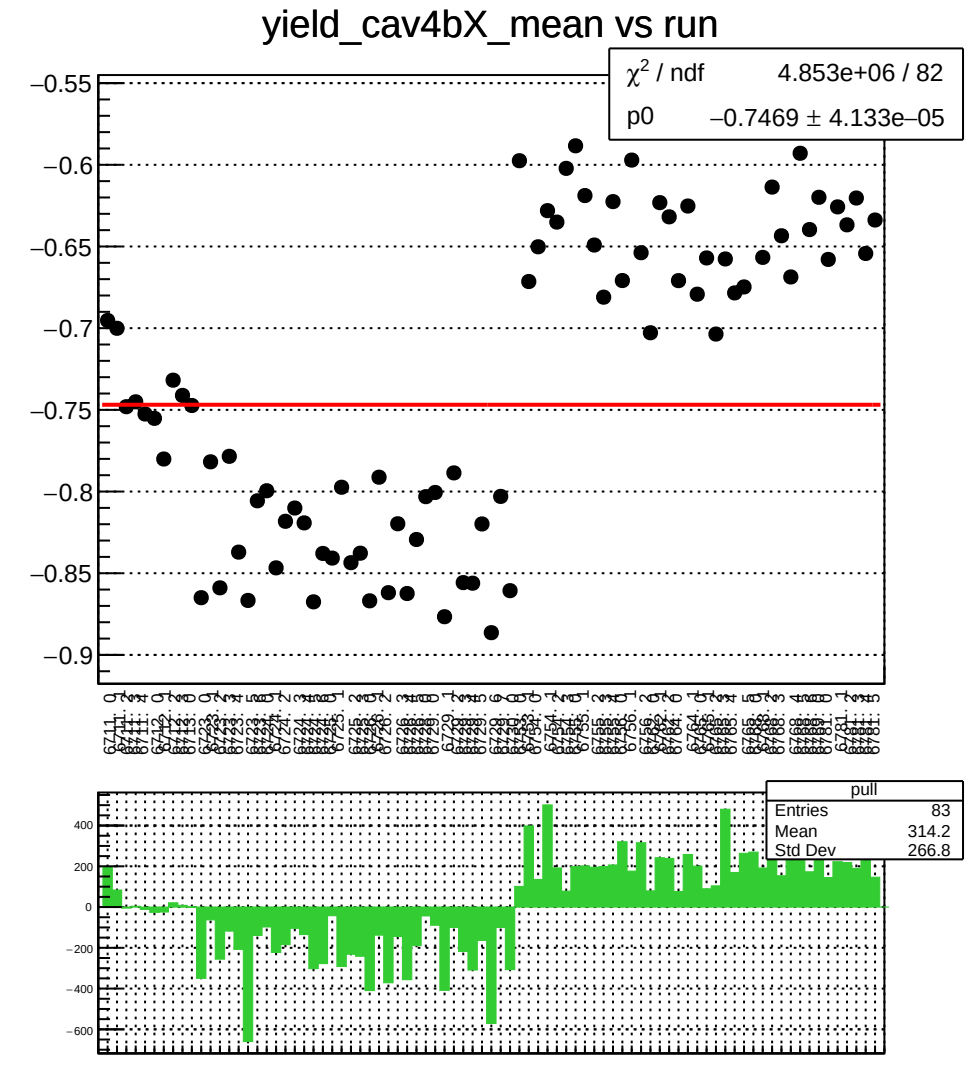

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

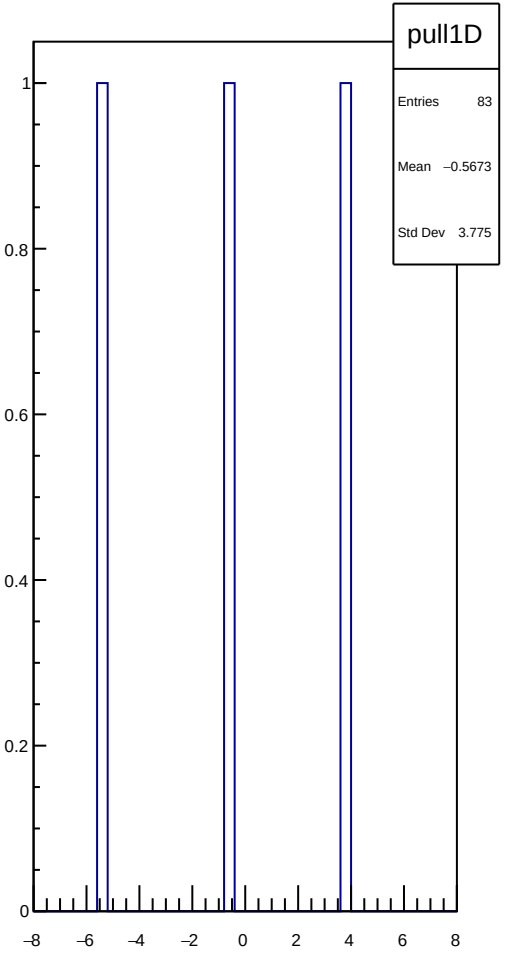

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

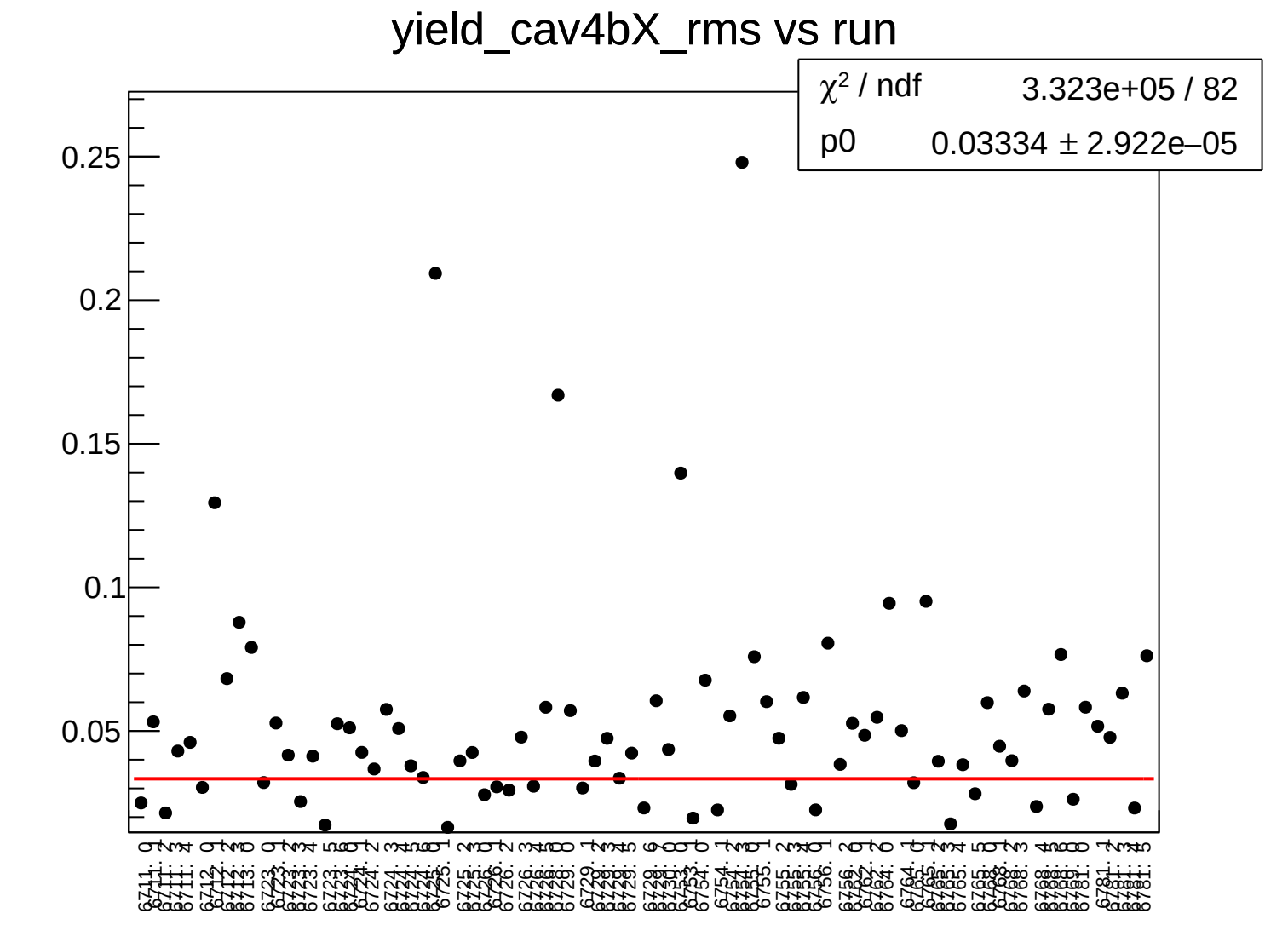

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

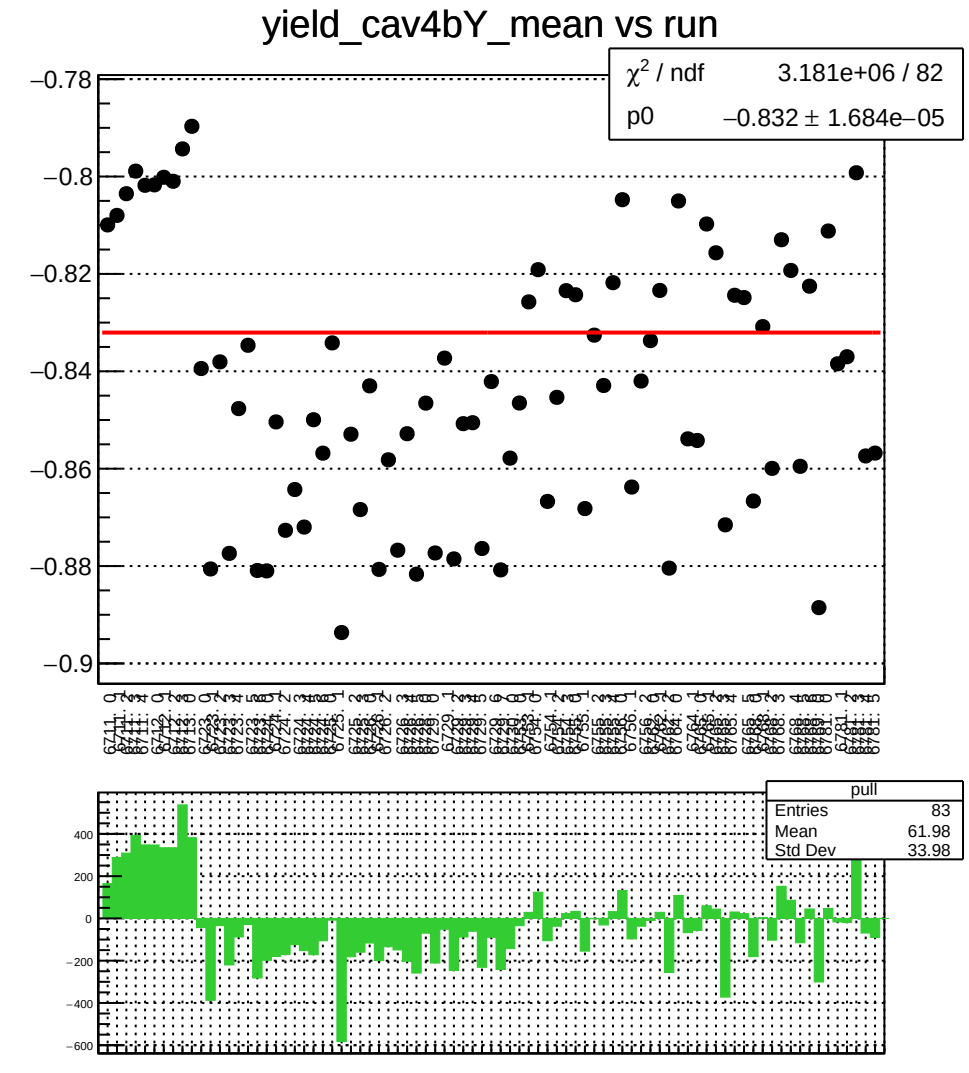

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

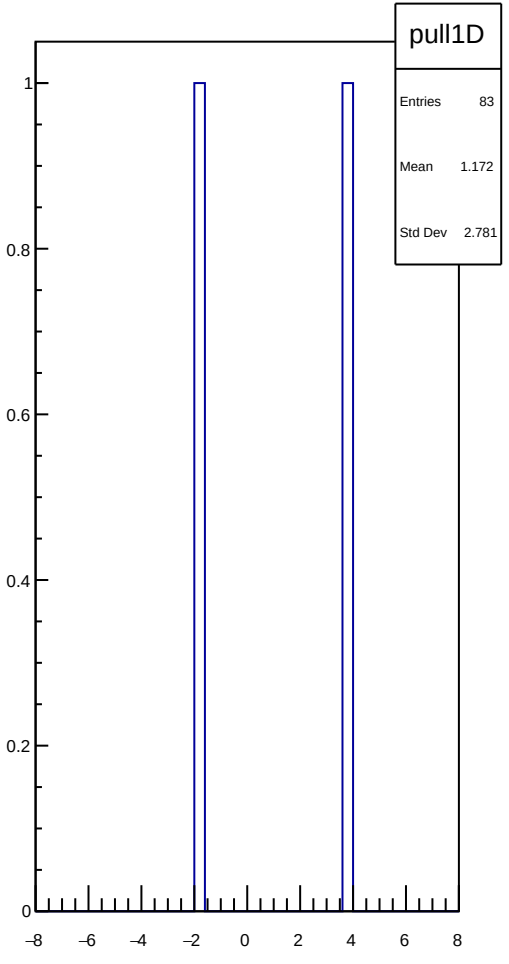

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

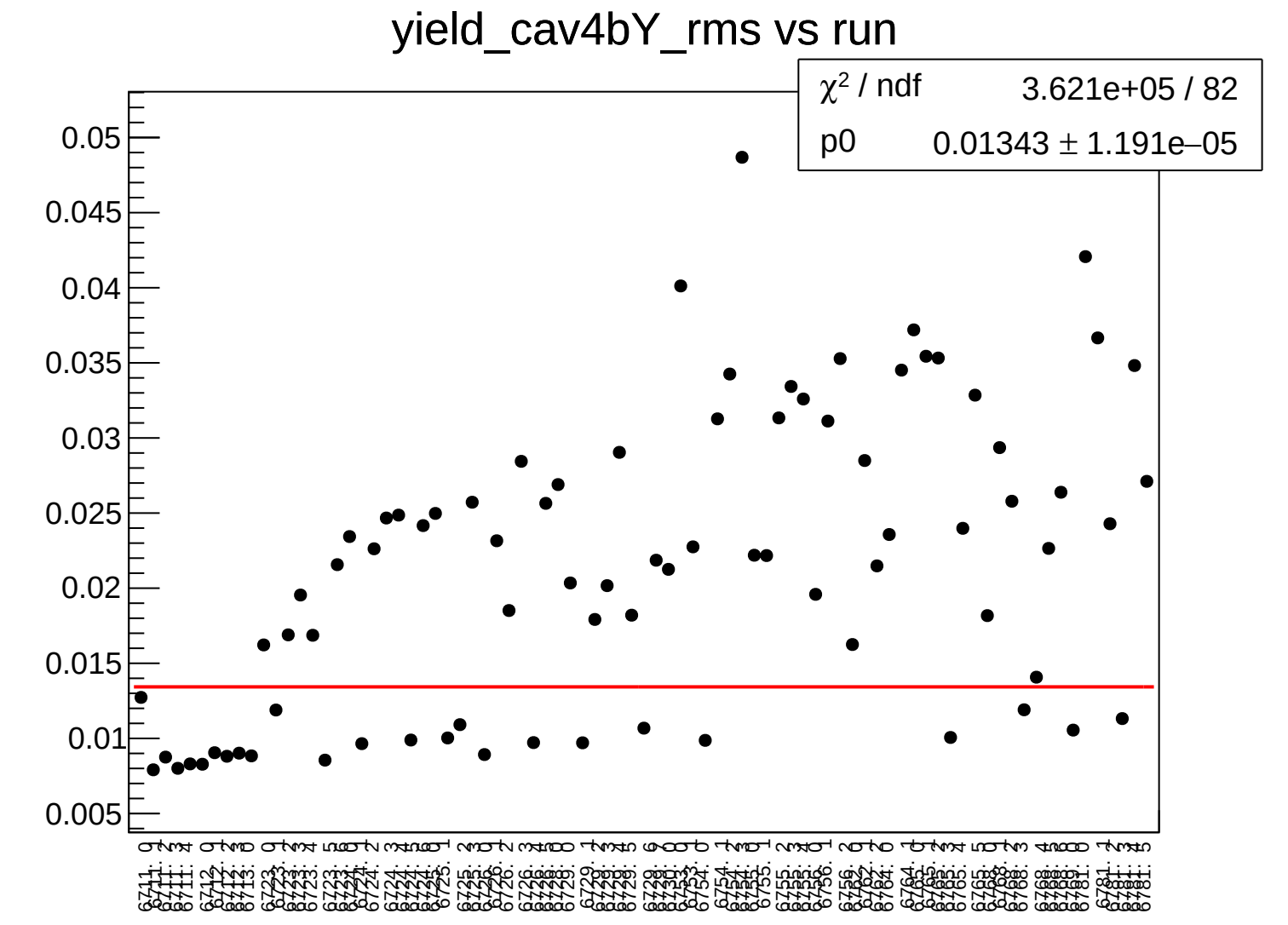

yield_cav4bX_mean vs run
χ² / ndf 4.853e+06 / 82
p0 −0.7469 ± 4.133e−05
pull
Entries 83
Mean 314.2
Std Dev 266.8

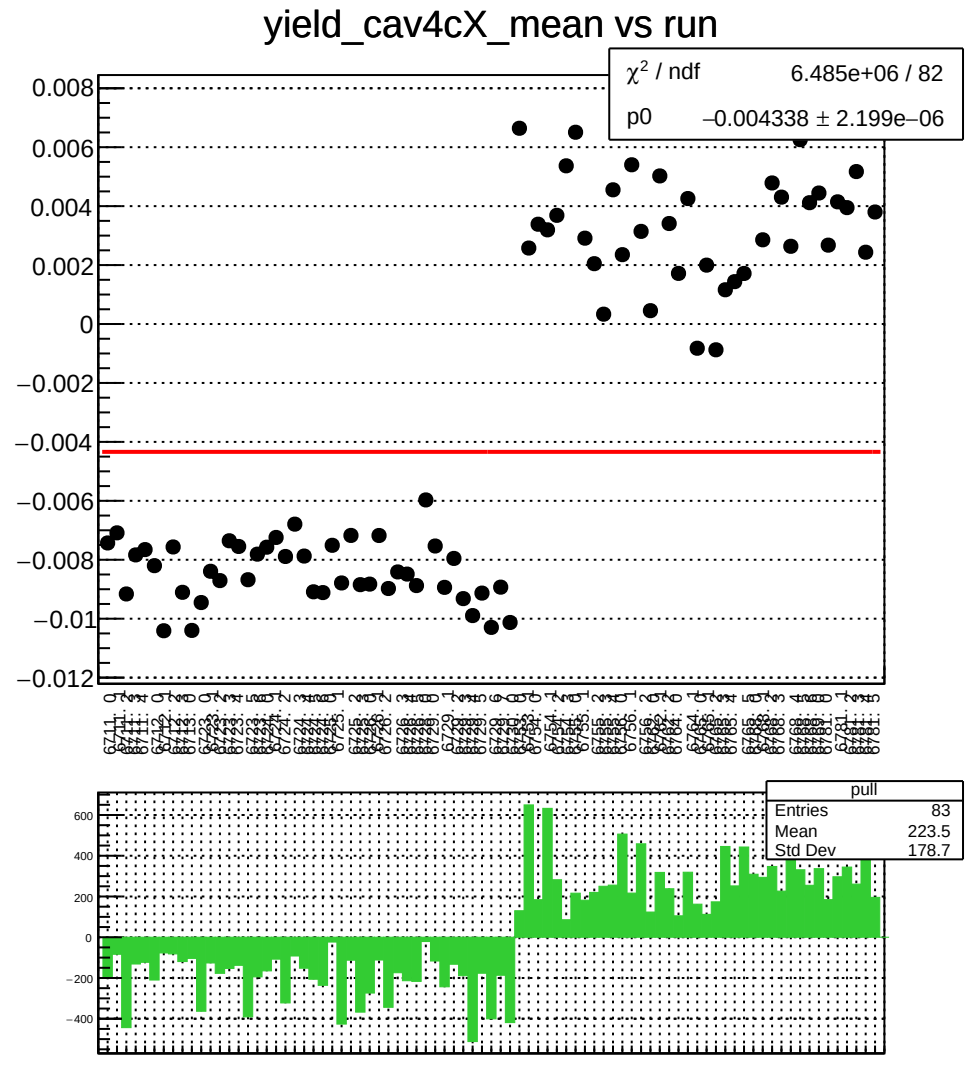

pull1D
Entries 83
Mean −0.5673
Std Dev 3.775

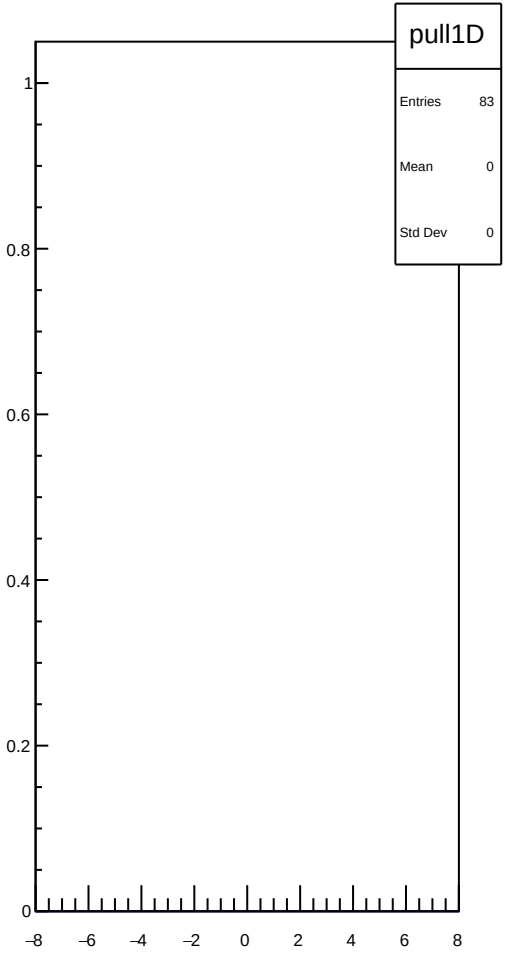

yield_cav4bX_rms vs run
χ² / ndf 3.323e+05 / 82
p0 0.03334 ± 2.922e−05
0.25
0.2
0.15
0.1
0.05

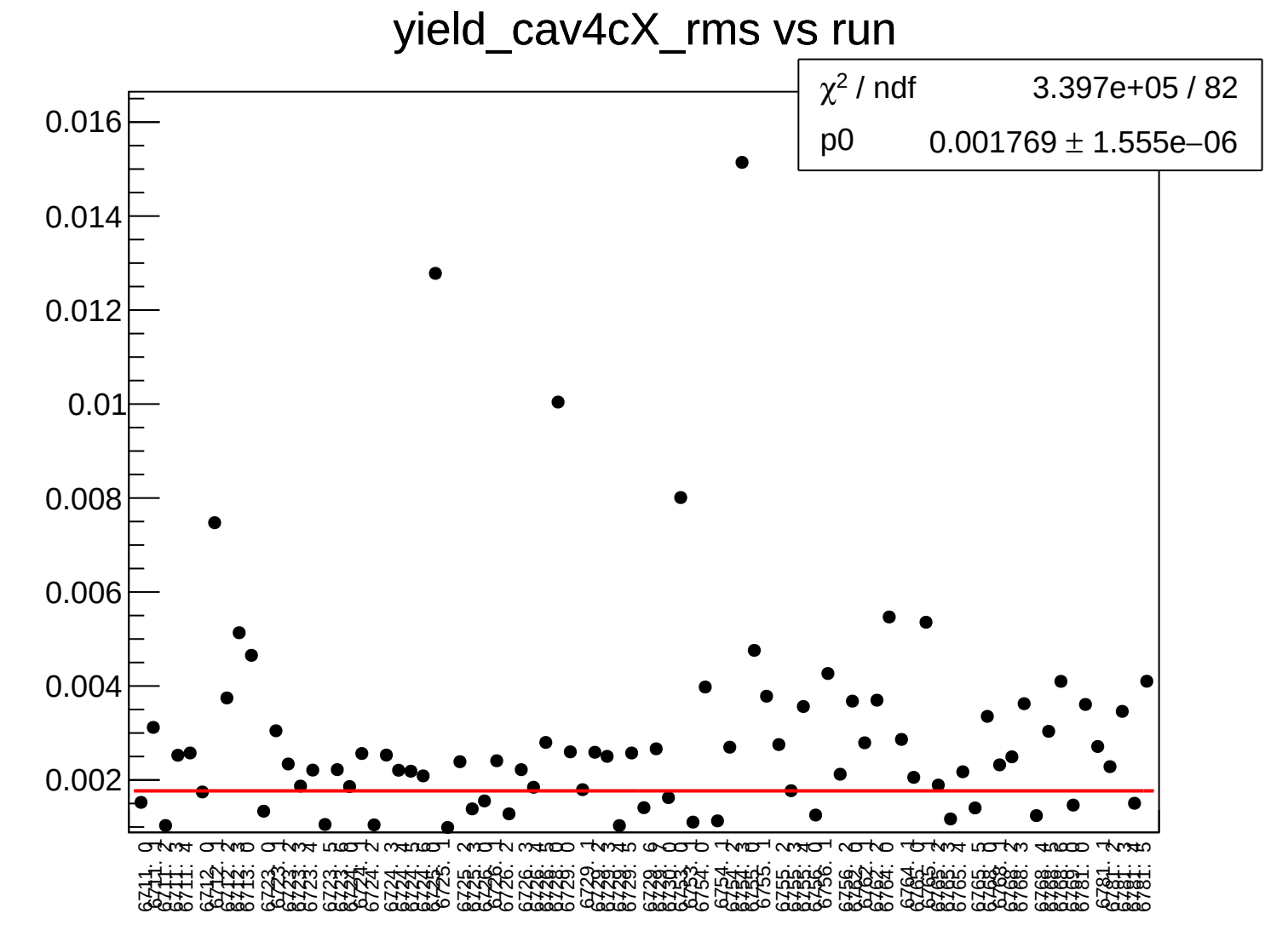

yield_cav4bY_mean vs run
χ² / ndf 3.181e+06 / 82
p0 −0.832 ± 1.684e−05
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
pull
Entries 83
Mean 61.98
Std Dev 33.98
400
200
0
−200
−400
−600

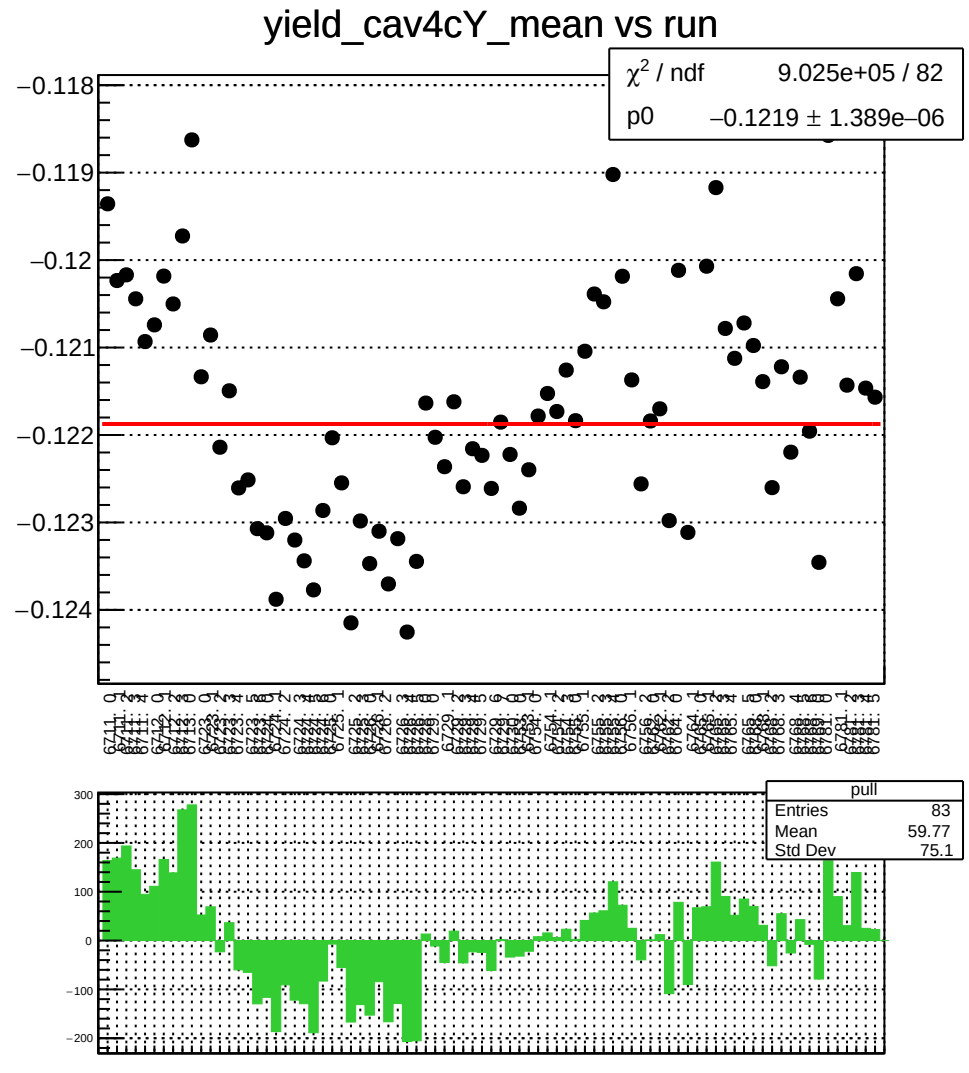

pull1D
Entries 83
Mean 1.172
Std Dev 2.781
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

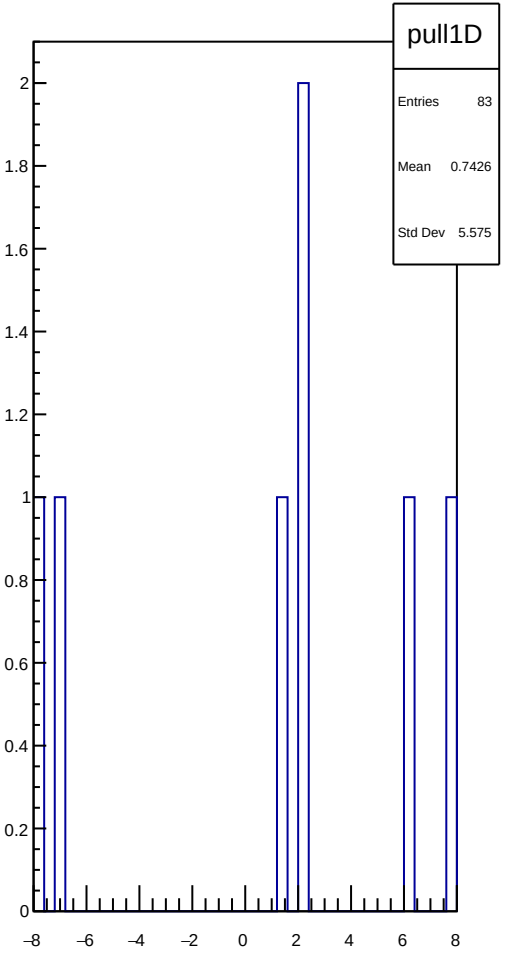

yield_cav4bY_rms vs run
χ² / ndf 3.621e+05 / 82
p0 0.01343 ± 1.191e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

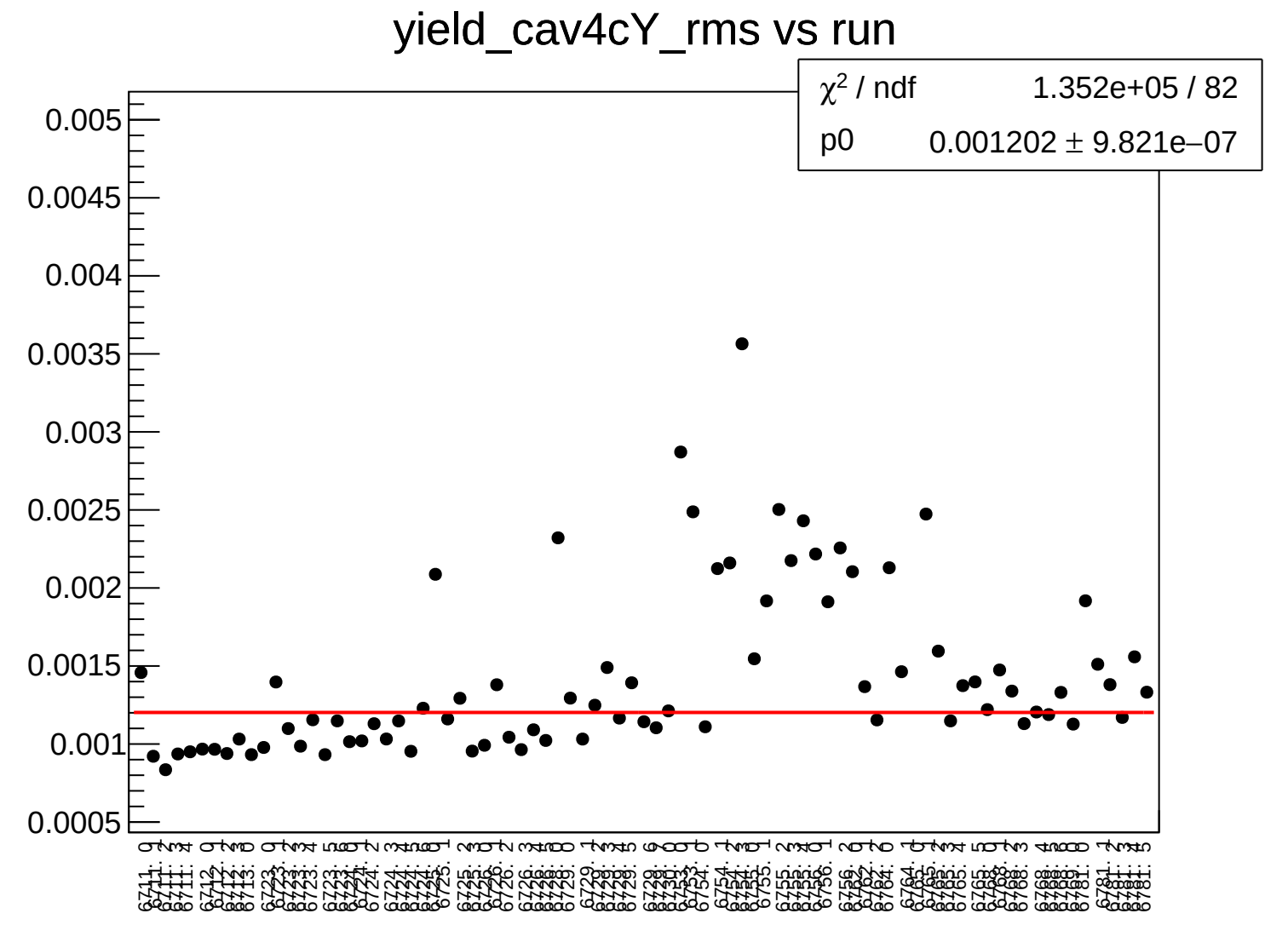

yield_cav4cX_mean vs run
χ² / ndf 6.485e+06 / 82
p0 −0.004338 ± 2.199e−06
pull
Entries 83
Mean 223.5
Std Dev 178.7

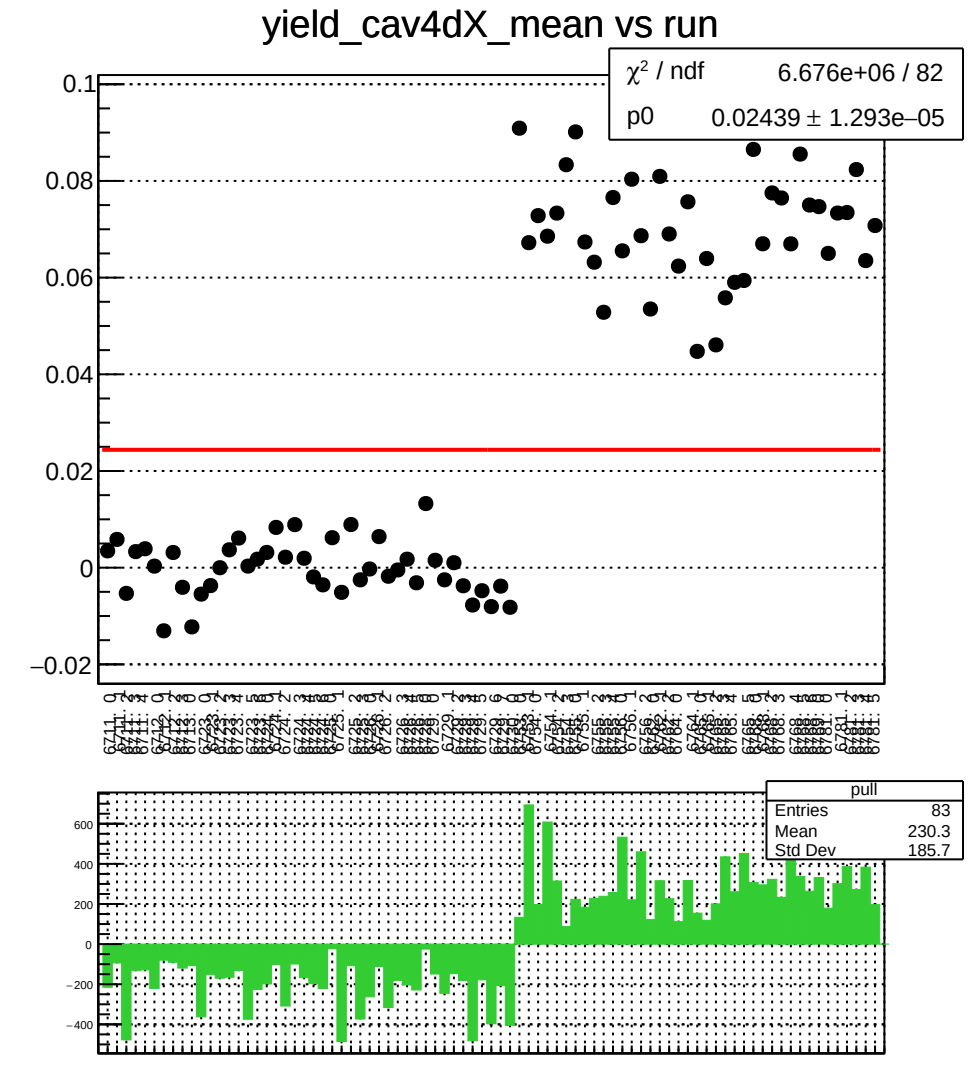

pull1D
Entries 83
Mean 0
Std Dev 0

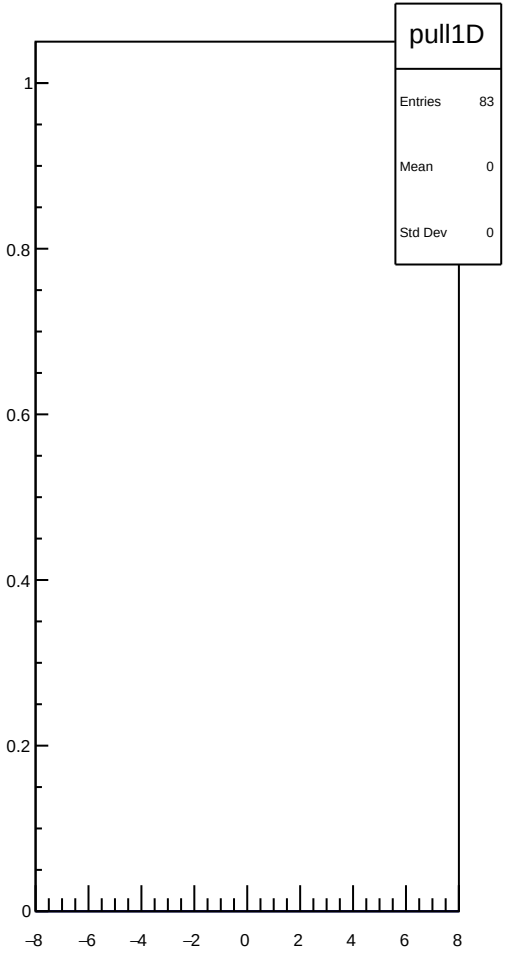

yield_cav4cX_rms vs run
χ² / ndf 3.397e+05 / 82
p0 0.001769 ± 1.555e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

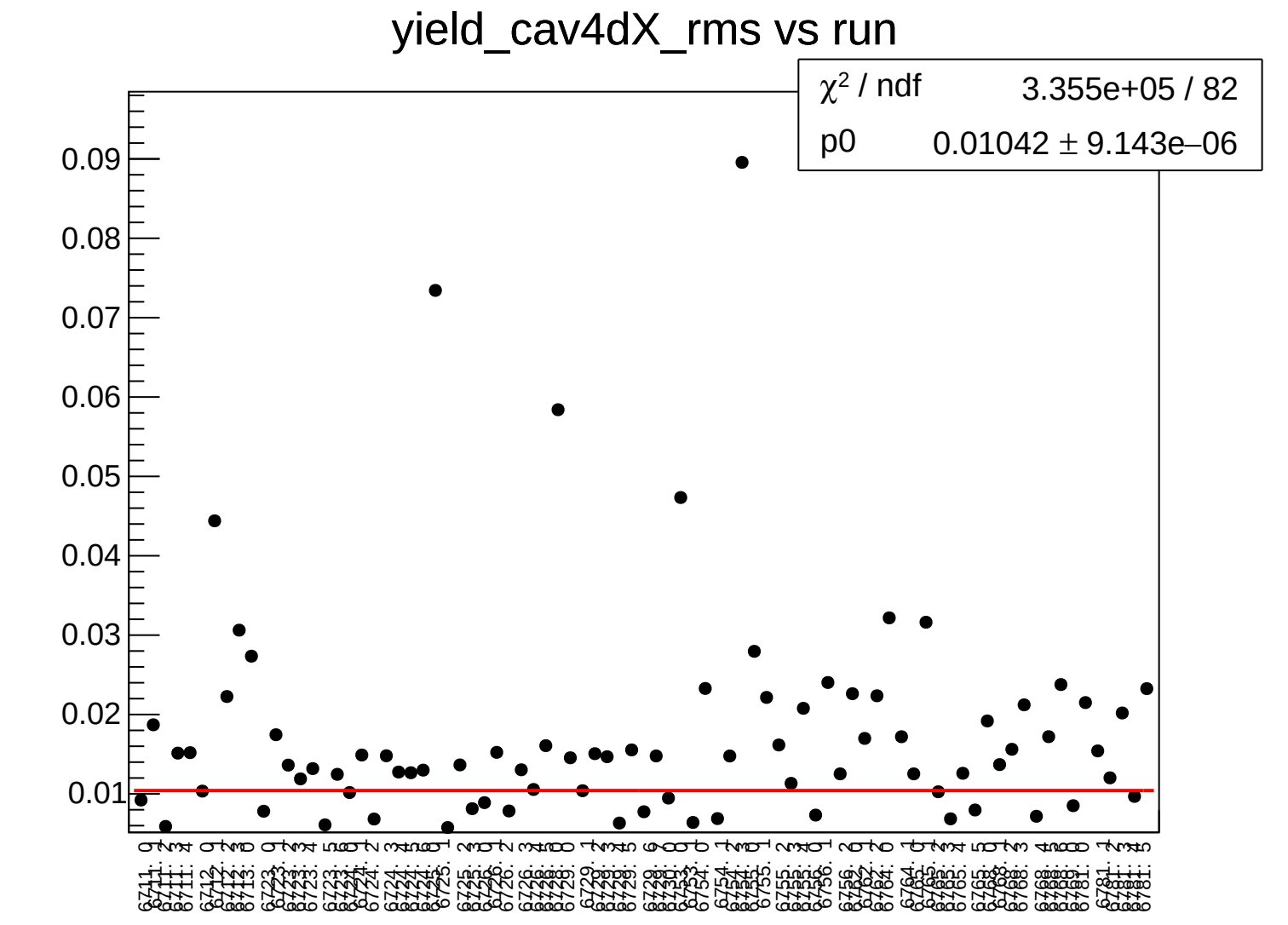

yield_cav4cY_mean vs run
χ² / ndf 9.025e+05 / 82
p0 −0.1219 ± 1.389e−06
−0.118
−0.119
−0.12
−0.121
−0.122
−0.123
−0.124
pull
Entries 83
Mean 59.77
Std Dev 75.1
300
200
100
0
−100
−200

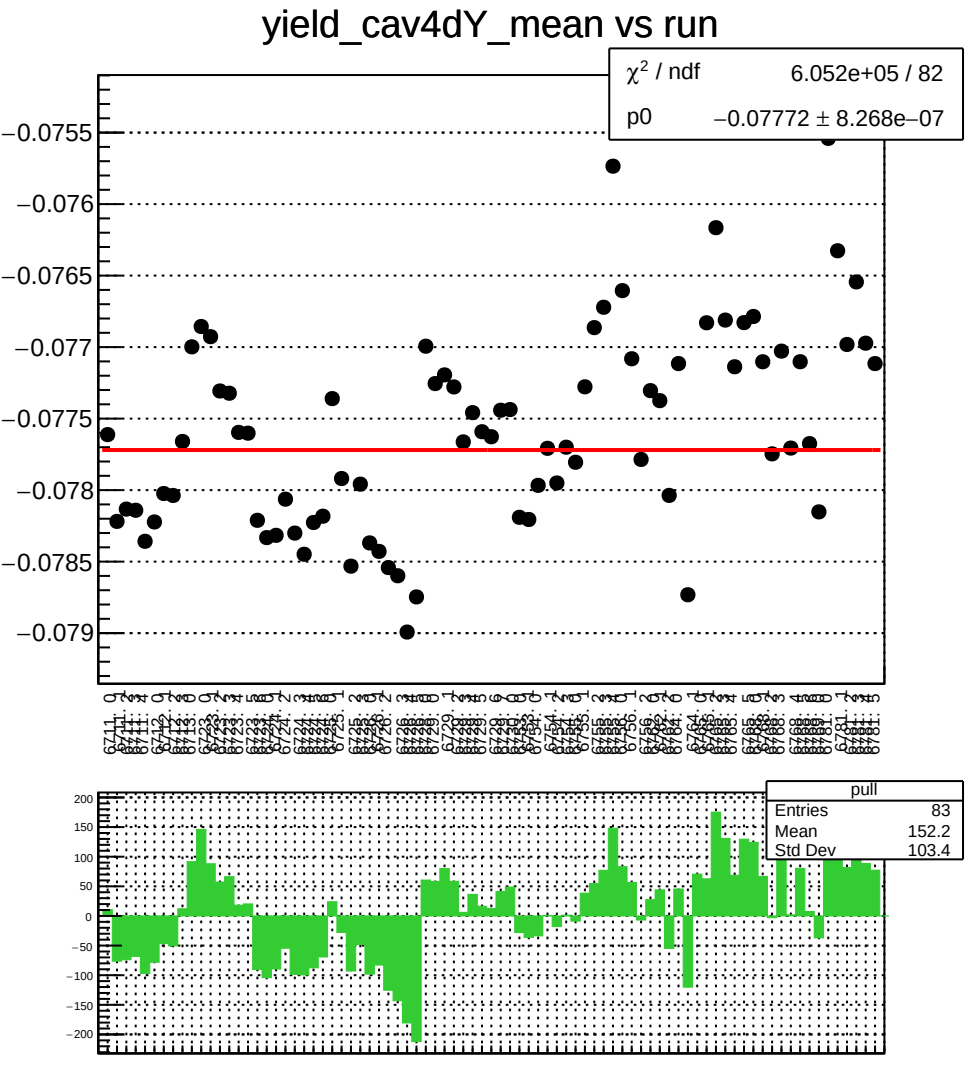

pull1D
Entries 83
Mean 0.7426
Std Dev 5.575
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

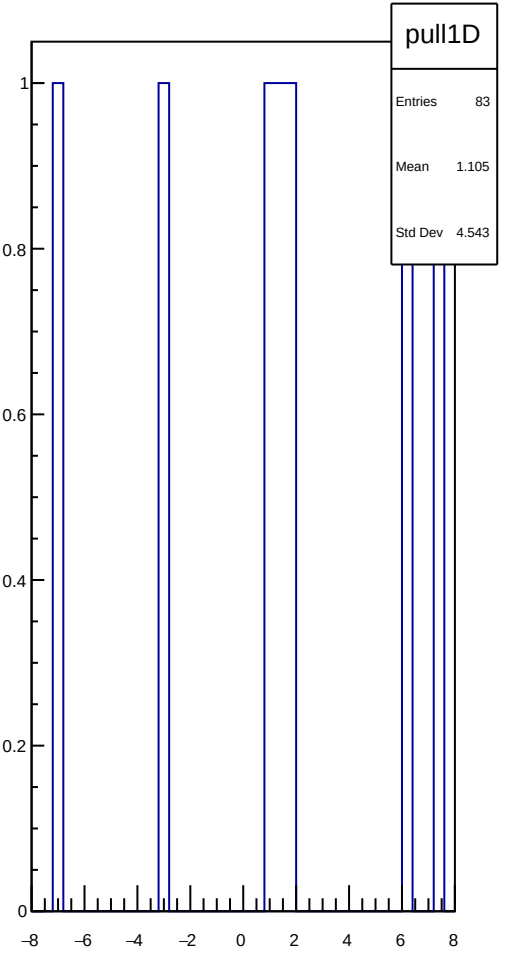

yield_cav4cY_rms vs run
χ² / ndf 1.352e+05 / 82
p0 0.001202 ± 9.821e−07
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

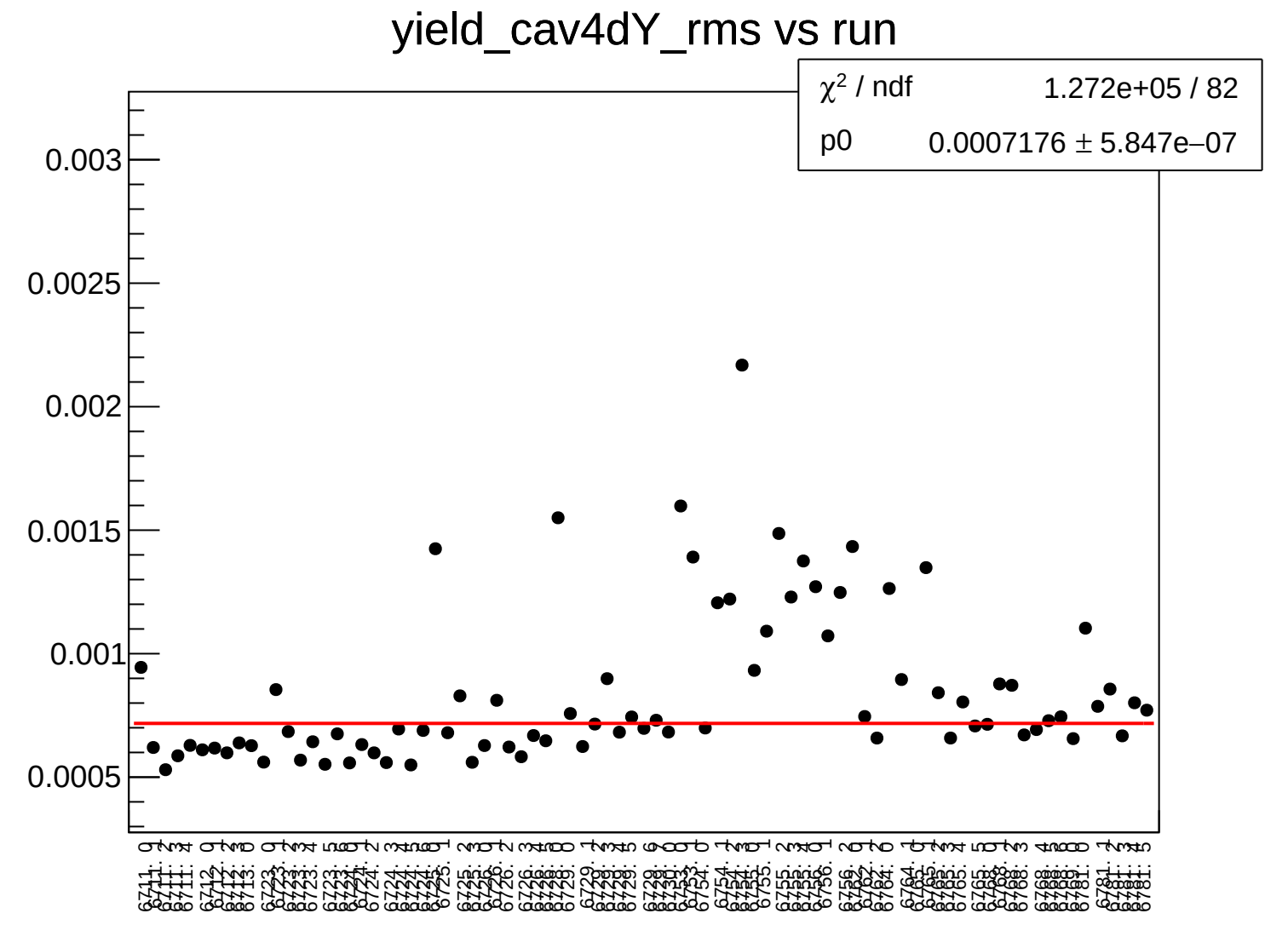

yield_cav4dX_mean vs run
χ² / ndf 6.676e+06 / 82
p0 0.02439 ± 1.293e−05
0.1
0.08
0.06
0.04
0.02
0
−0.02
pull
Entries 83
Mean 230.3
Std Dev 185.7
600
400
200
0
−200
−400

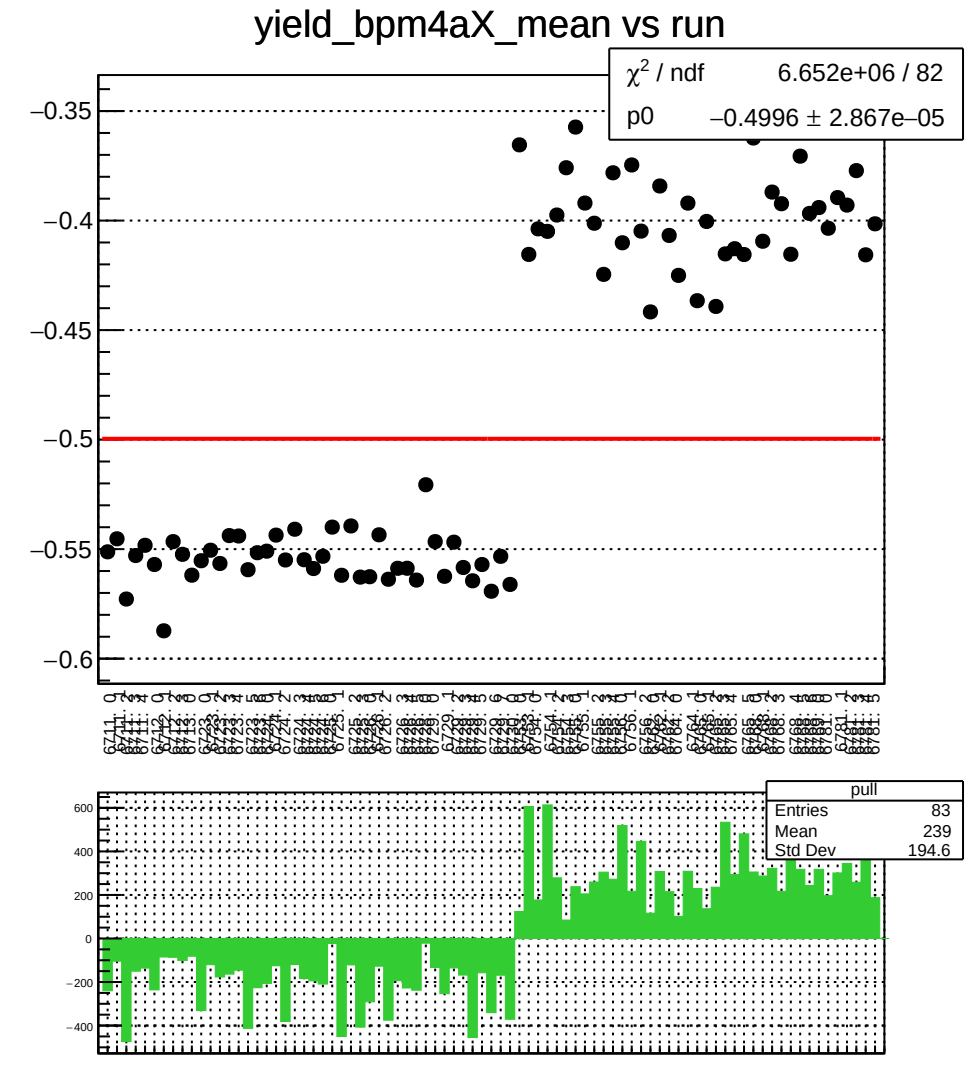

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

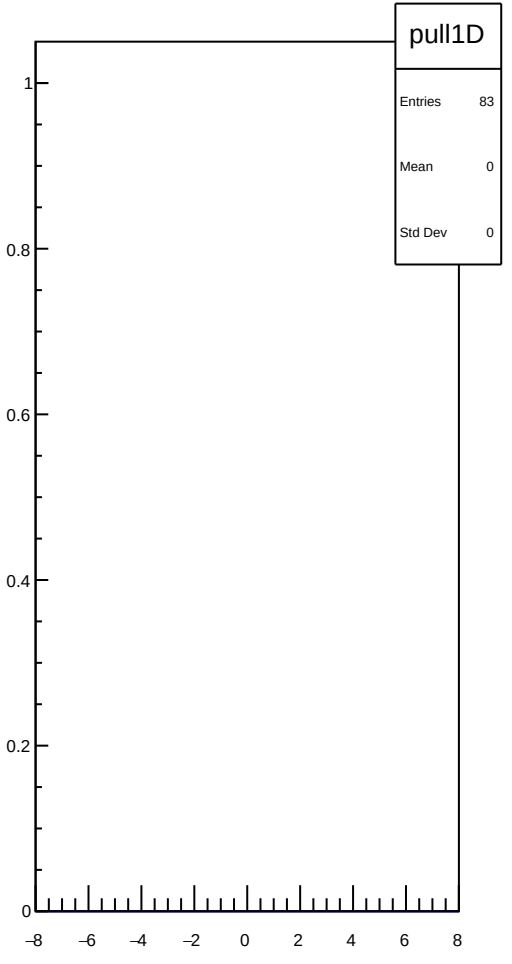

yield_cav4dX_rms vs run
χ² / ndf 3.355e+05 / 82
p0 0.01042 ± 9.143e–06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

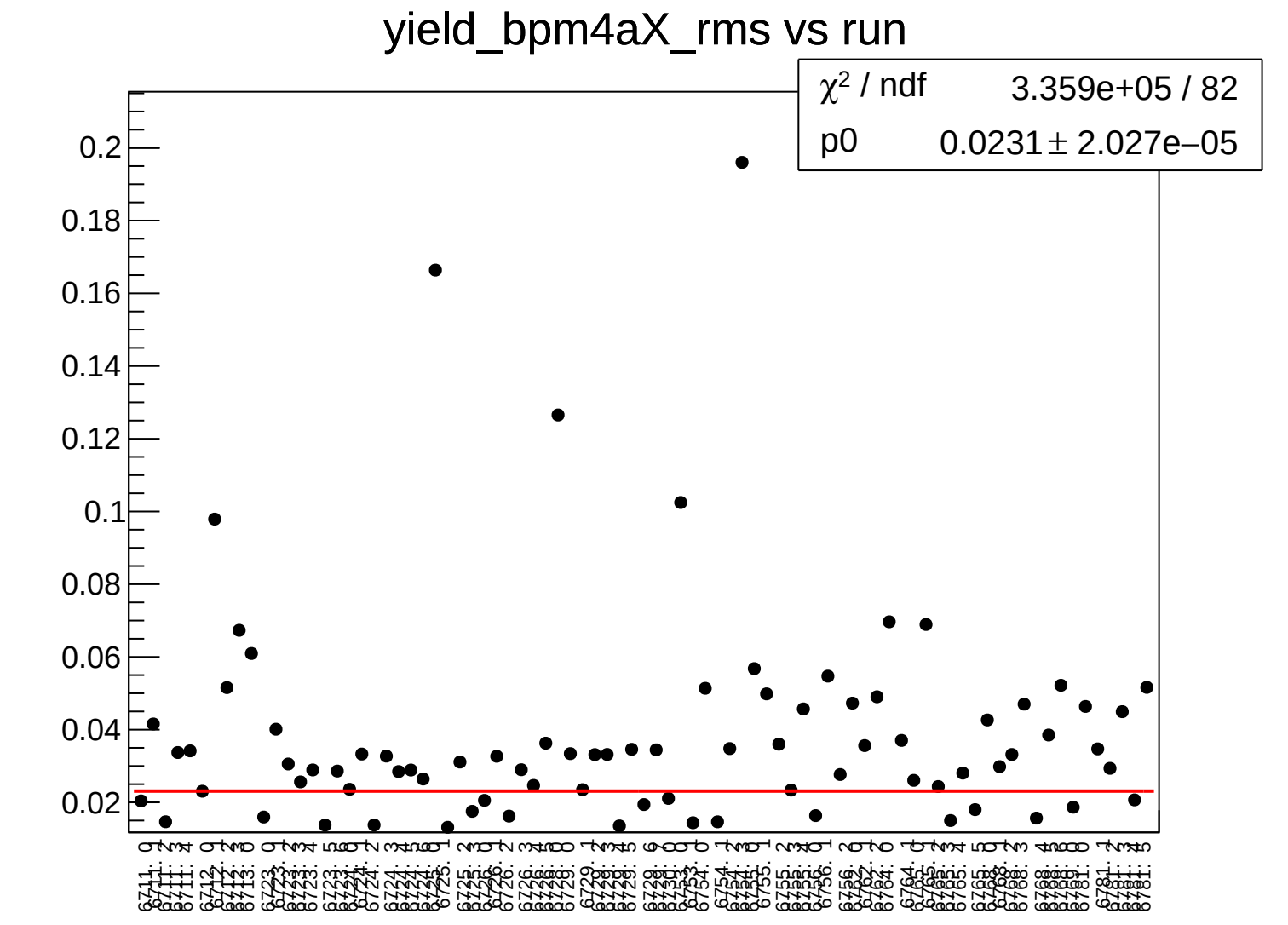

yield_cav4dY_mean vs run
χ² / ndf 6.052e+05 / 82
p0 −0.07772 ± 8.268e−07
−0.0755
−0.076
−0.0765
−0.077
−0.0775
−0.078
−0.0785
−0.079
pull
Entries 83
Mean 152.2
Std Dev 103.4
200
150
100
50
0
−50
−100
−150
−200

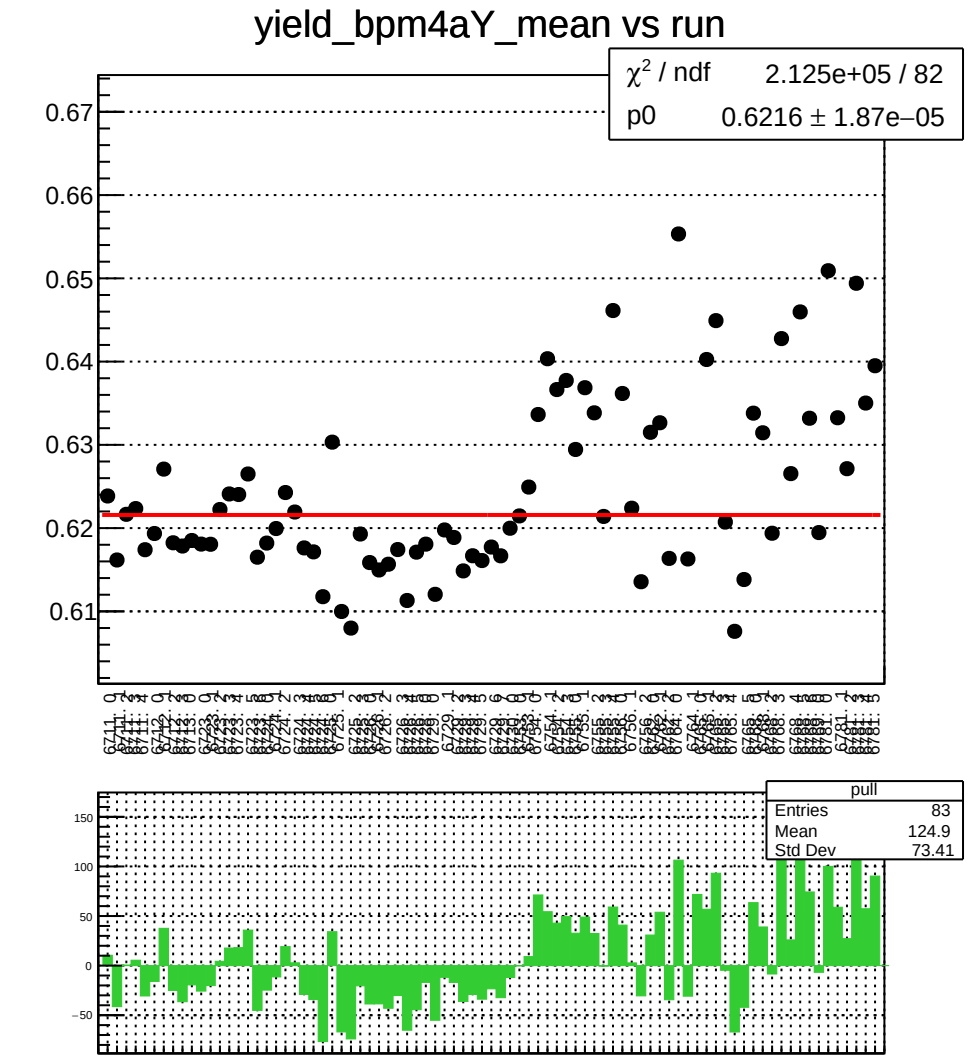

pull1D
Entries 83
Mean 1.105
Std Dev 4.543
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

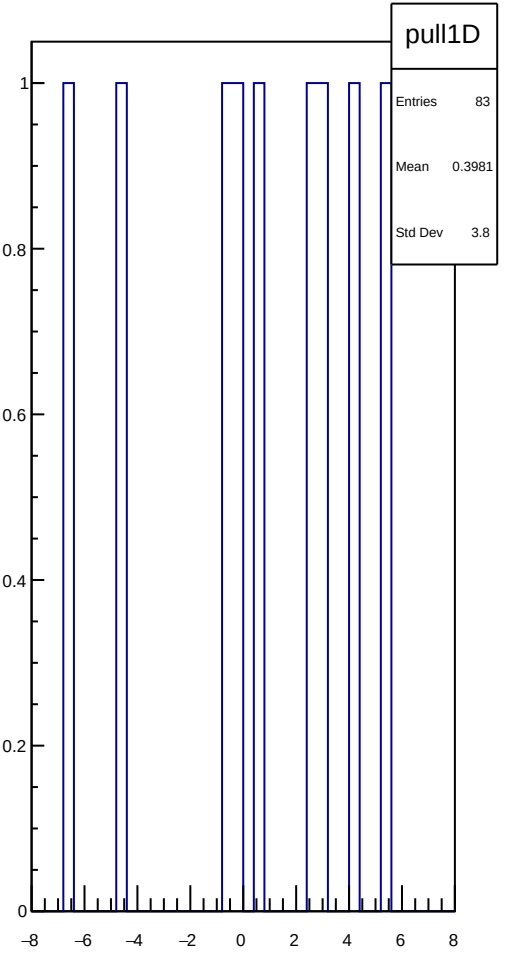

yield_cav4dY_rms vs run
χ² / ndf 1.272e+05 / 82
p0 0.0007176 ± 5.847e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

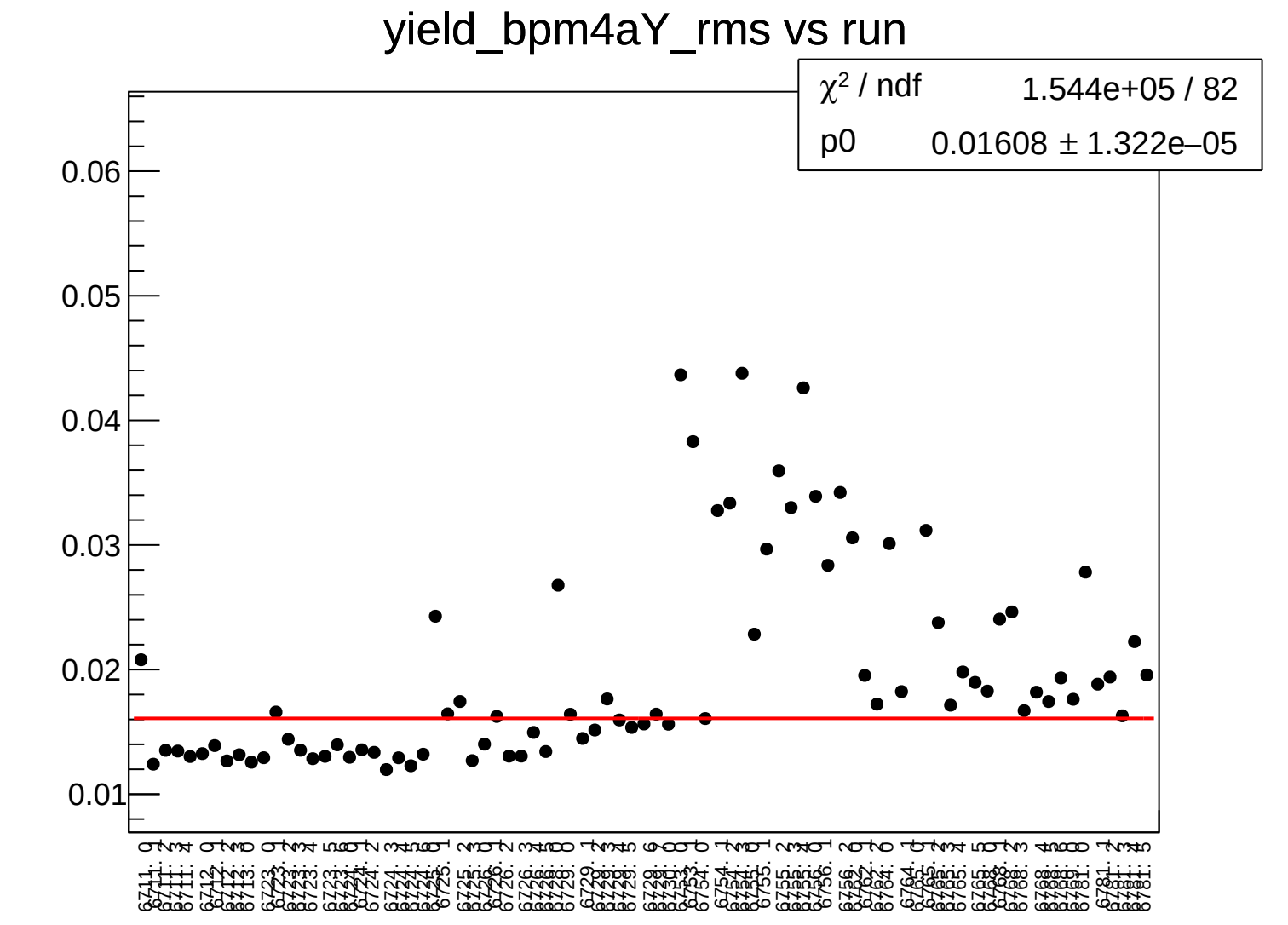

yield_bpm4aX_mean vs run
χ² / ndf 6.652e+06 / 82
p0 −0.4996 ± 2.867e−05
−0.35
−0.4
−0.45
−0.5
−0.55
−0.6
pull
Entries 83
Mean 239
Std Dev 194.6
600
400
200
0
−200
−400

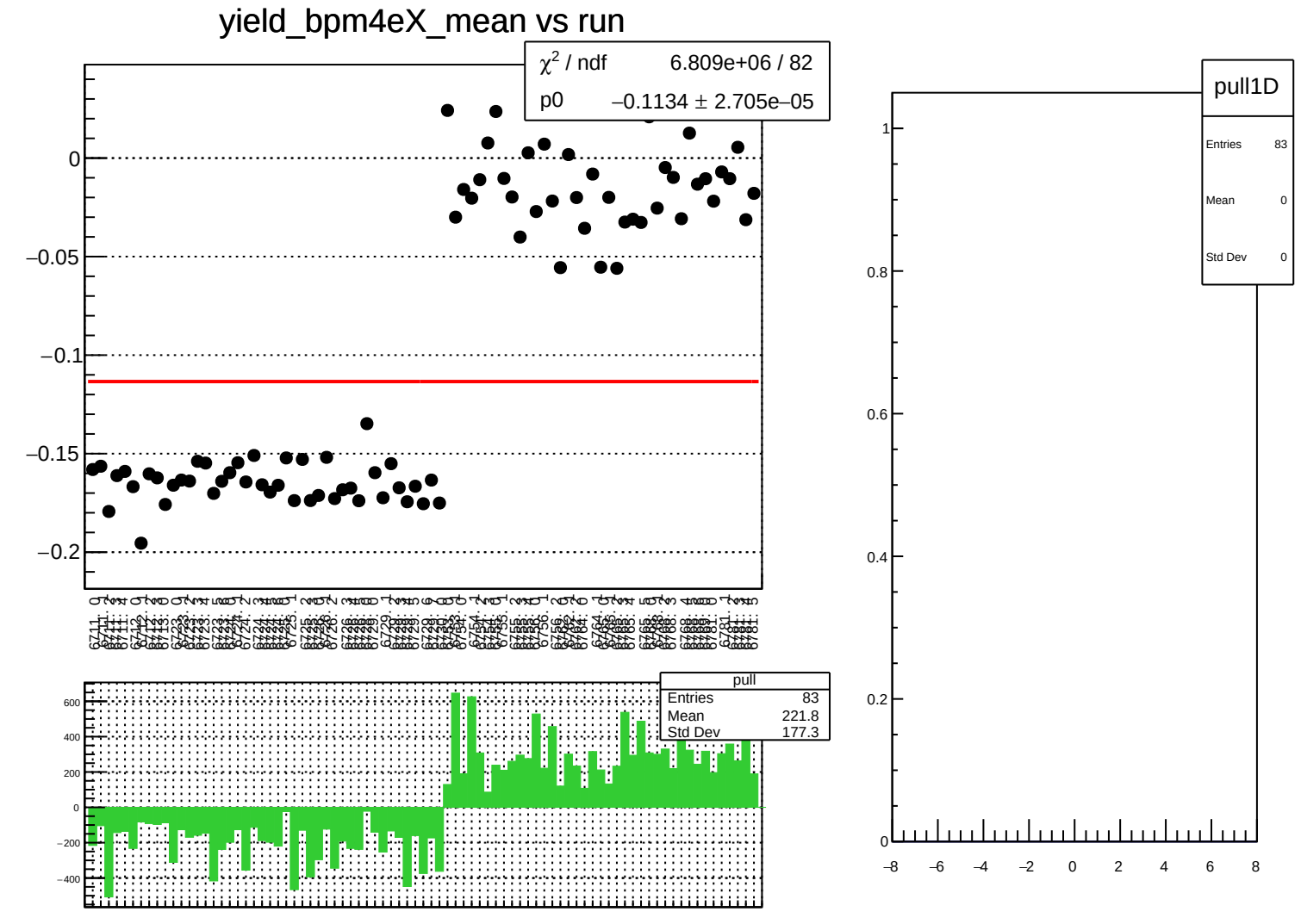

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

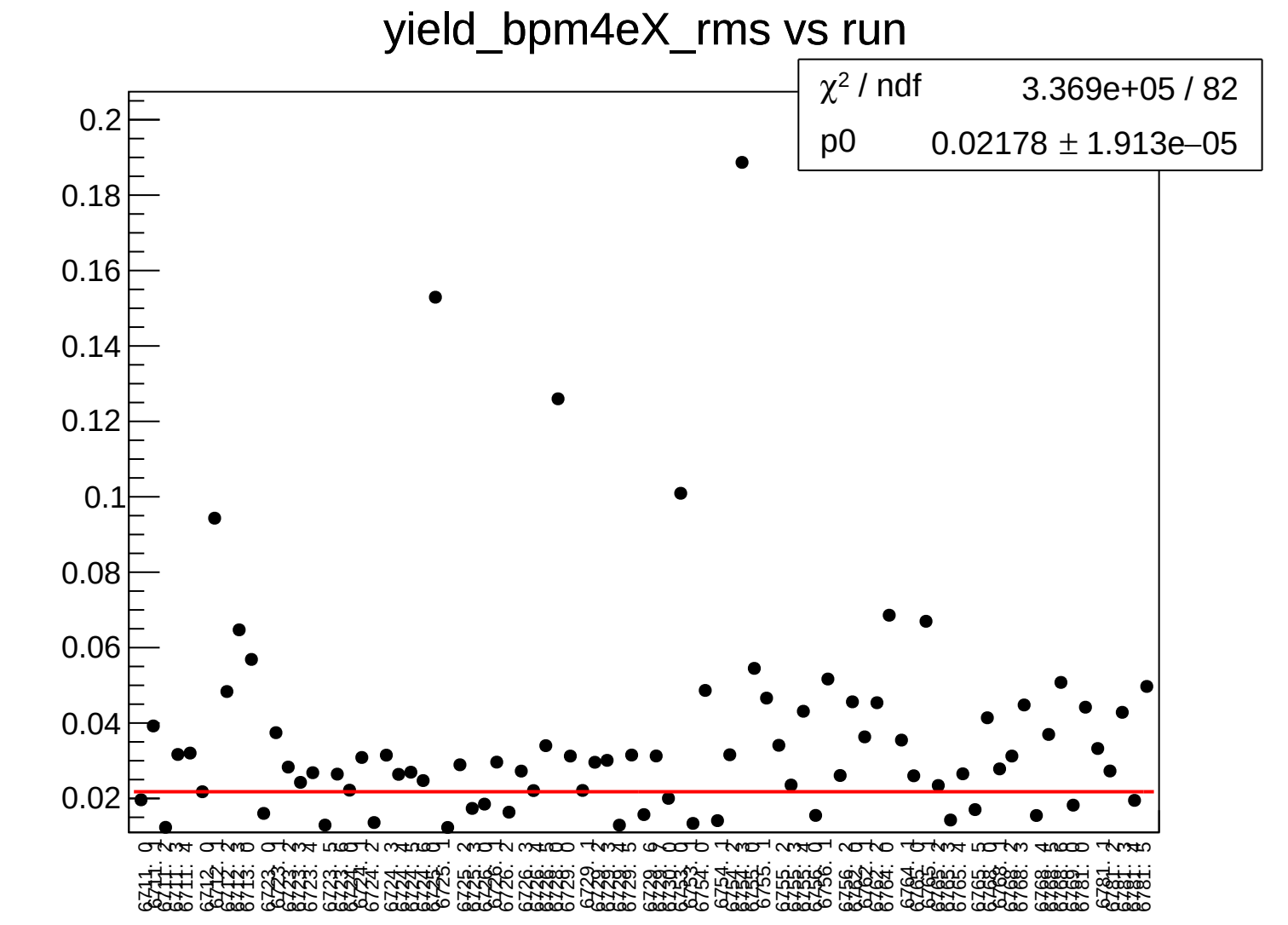

yield_bpm4aX_rms vs run
χ² / ndf 3.359e+05 / 82
p0 0.0231 ± 2.027e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

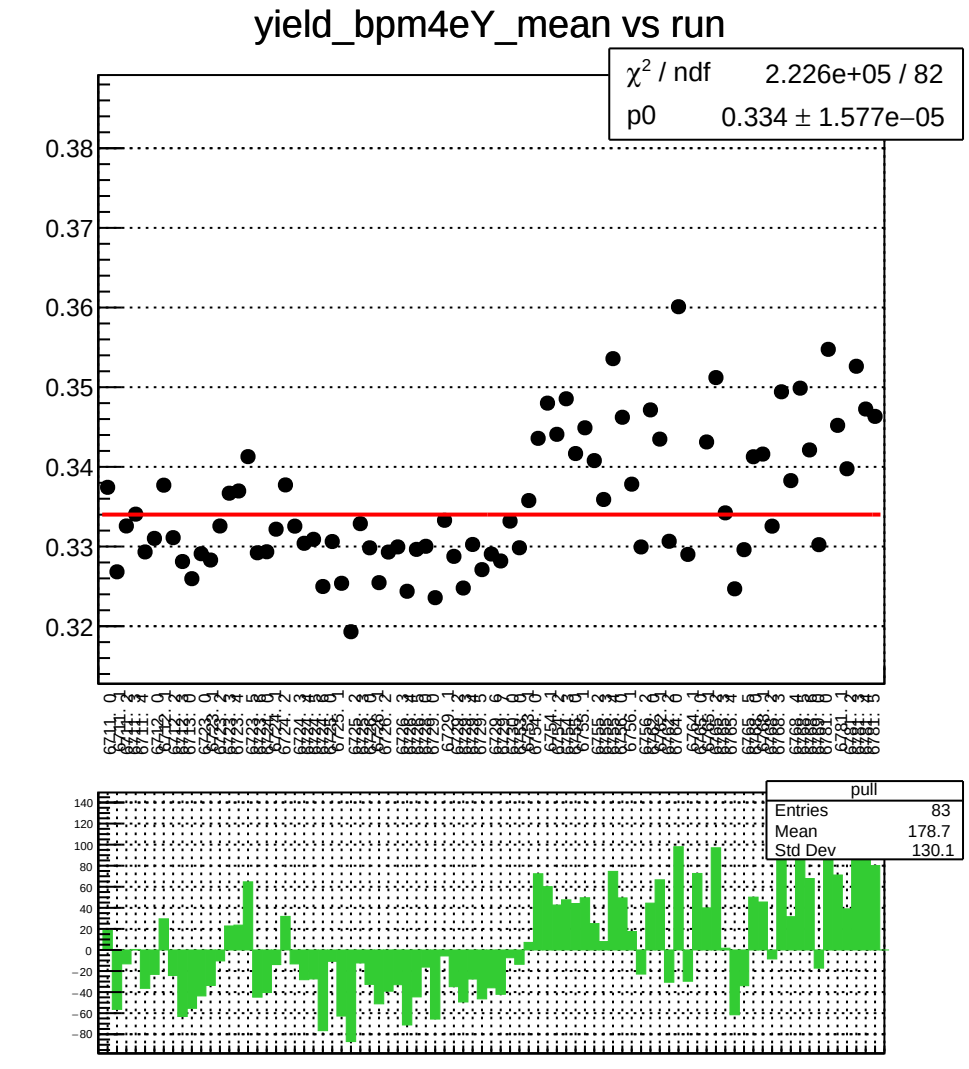

yield_bpm4aY_mean vs run
χ² / ndf 2.125e+05 / 82
p0 0.6216 ± 1.87e−05
0.67
0.66
0.65
0.64
0.63
0.62
0.61
pull
Entries 83
Mean 124.9
Std Dev 73.41
150
100
50
0
−50

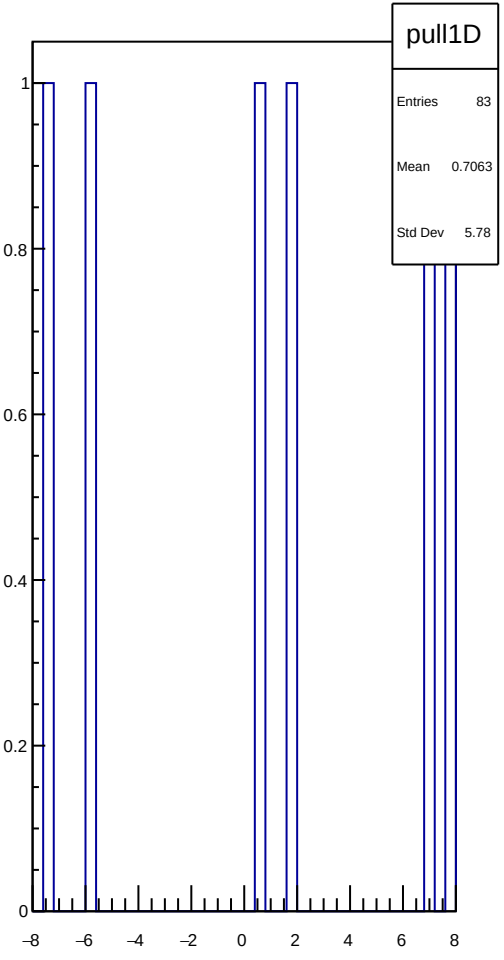

pull1D
Entries 83
Mean 0.3981
Std Dev 3.8
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

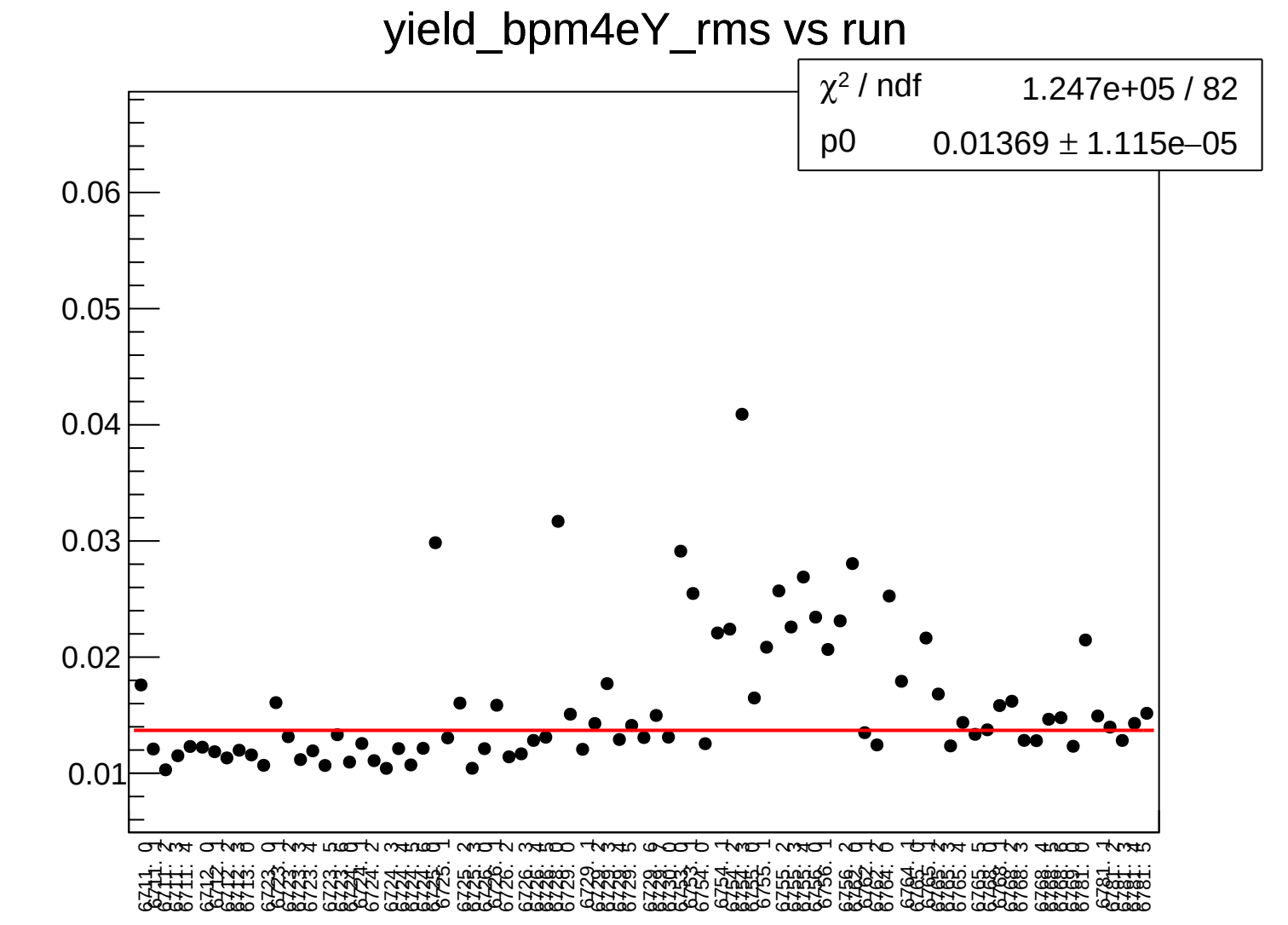

yield_bpm4aY_rms vs run
χ² / ndf 1.544e+05 / 82
p0 0.01608 ± 1.322e−05
0.06
0.05
0.04
0.03
0.02
0.01

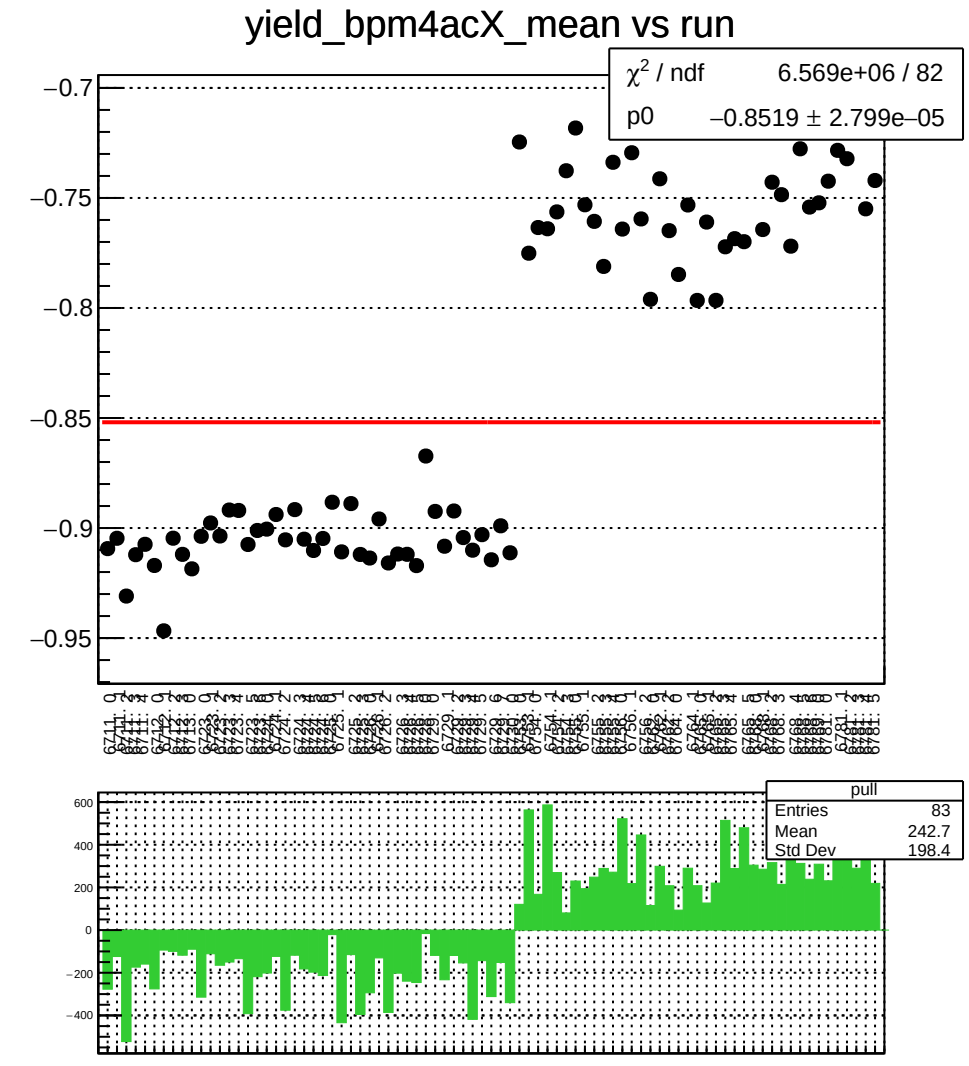

yield_bpm4eX_mean vs run
χ² / ndf 6.809e+06 / 82
p0 −0.1134 ± 2.705e−05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 83
Mean 221.8
Std Dev 177.3
600
400
200
0
−200
−400
pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

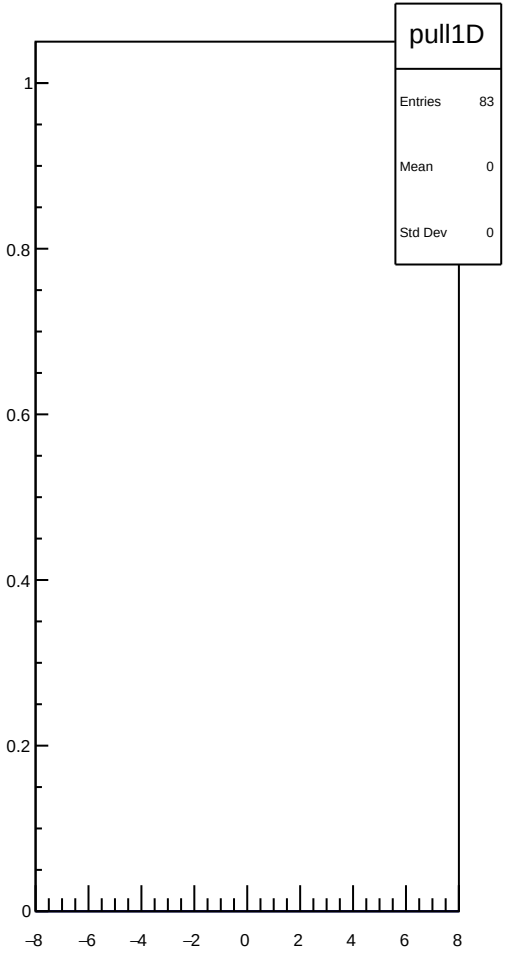

yield_bpm4eX_rms vs run
χ² / ndf 3.369e+05 / 82
p0 0.02178 ± 1.913e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

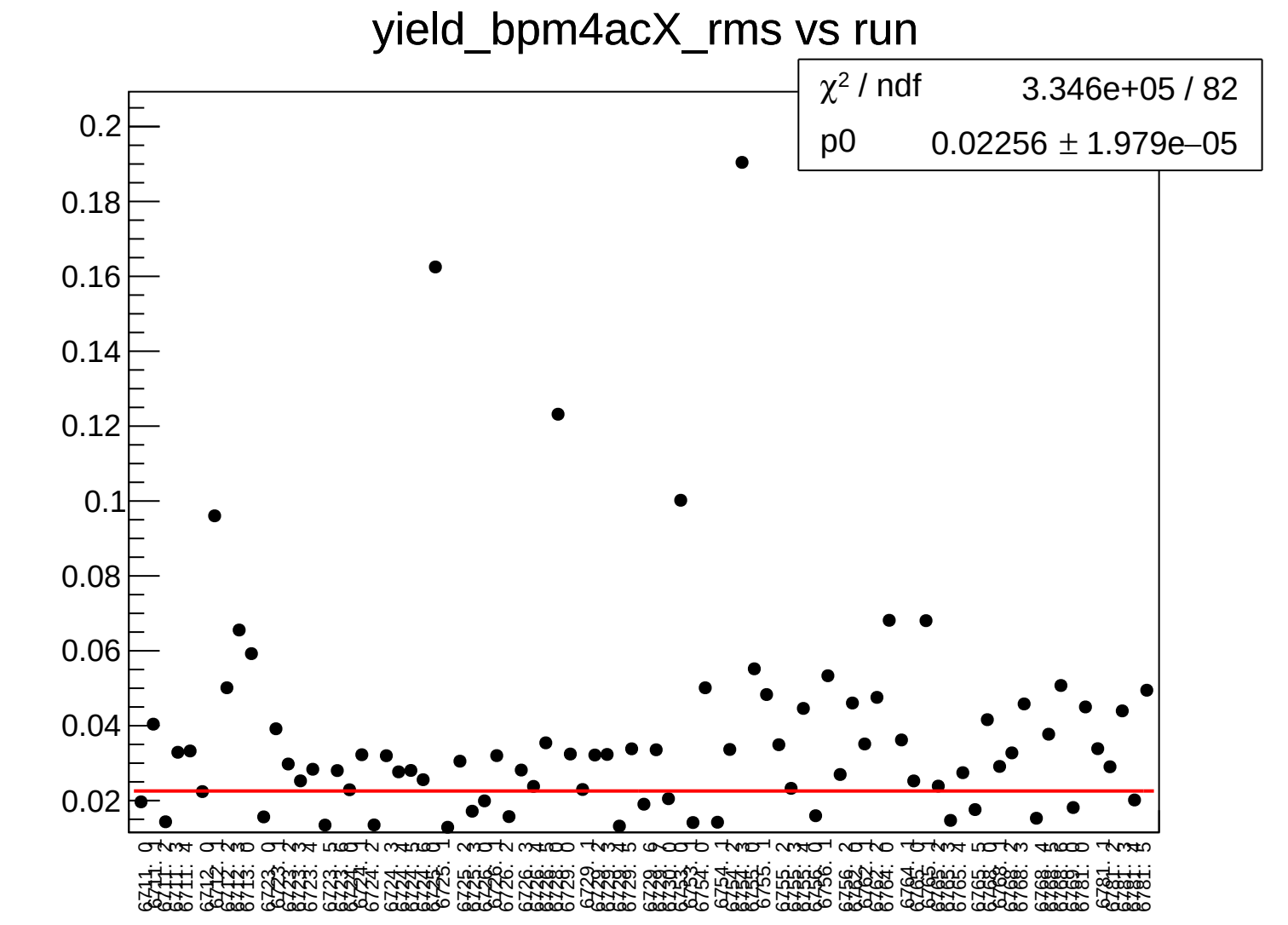

yield_bpm4eY_mean vs run
χ² / ndf 2.226e+05 / 82
p0 0.334 ± 1.577e−05
0.38
0.37
0.36
0.35
0.34
0.33
0.32
pull
Entries 83
Mean 178.7
Std Dev 130.1
140
120
100
80
60
40
20
0
−20
−40
−60
−80

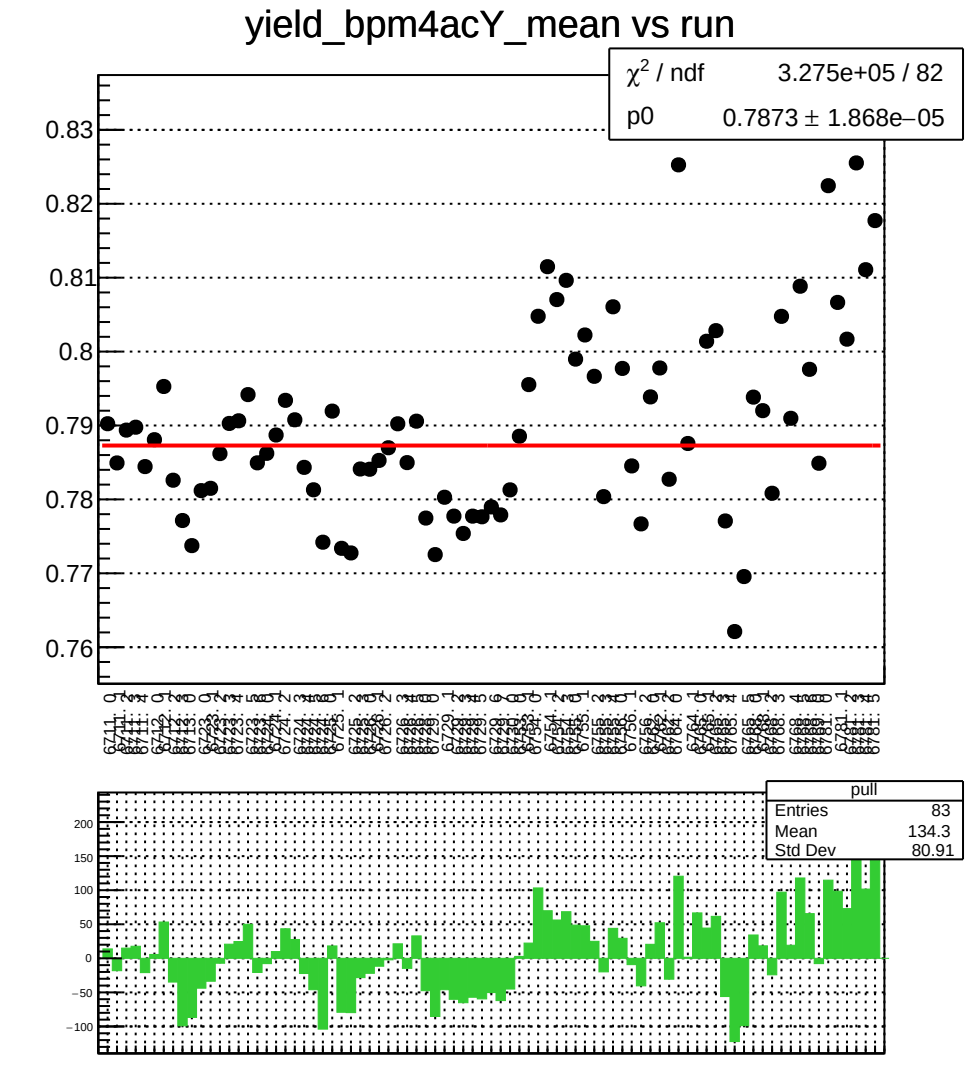

pull1D
Entries 83
Mean 0.7063
Std Dev 5.78
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

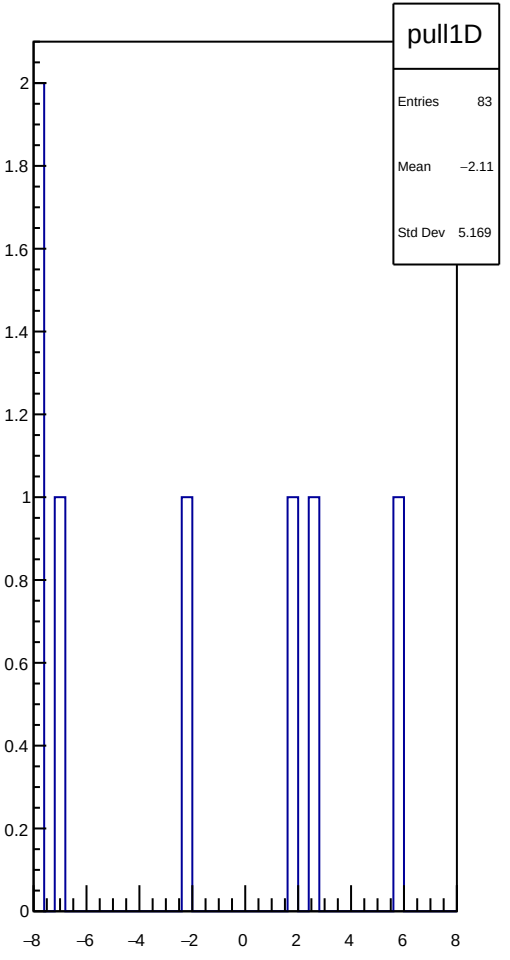

yield_bpm4eY_rms vs run
χ² / ndf 1.247e+05 / 82
p0 0.01369 ± 1.115e−05
0.06
0.05
0.04
0.03
0.02
0.01

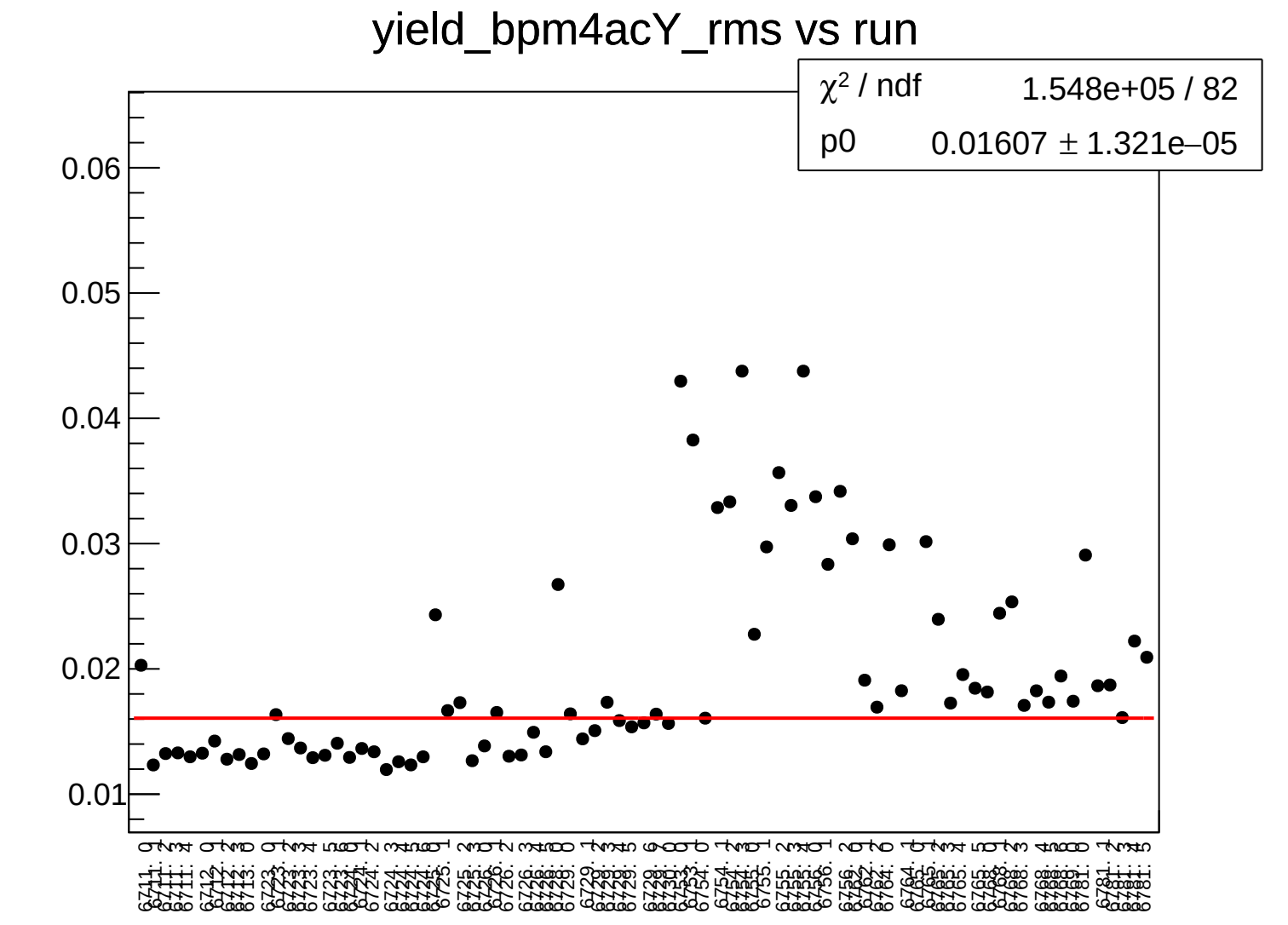

yield_bpm4acX_mean vs run
χ² / ndf 6.569e+06 / 82
p0 −0.8519 ± 2.799e−05
−0.7
−0.75
−0.8
−0.85
−0.9
−0.95
pull
Entries 83
Mean 242.7
Std Dev 198.4
600
400
200
0
−200
−400

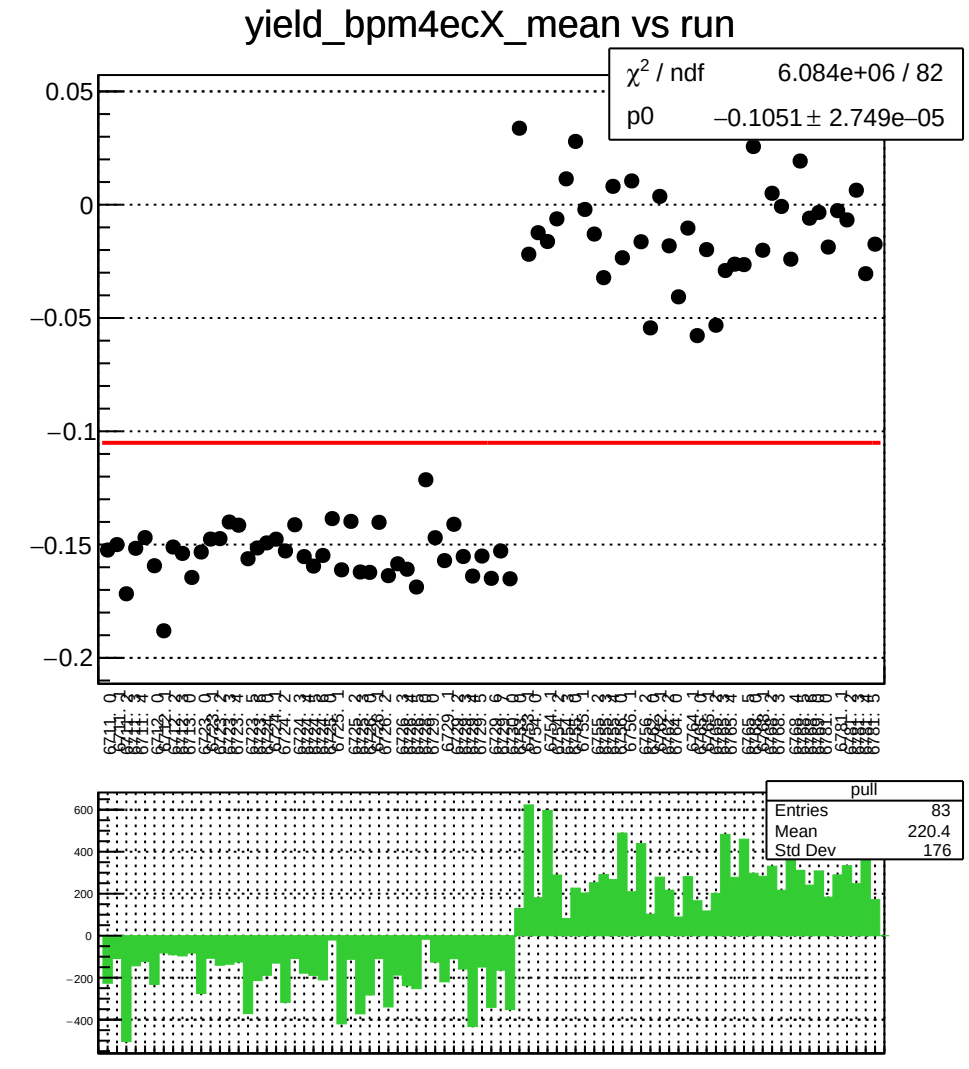

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

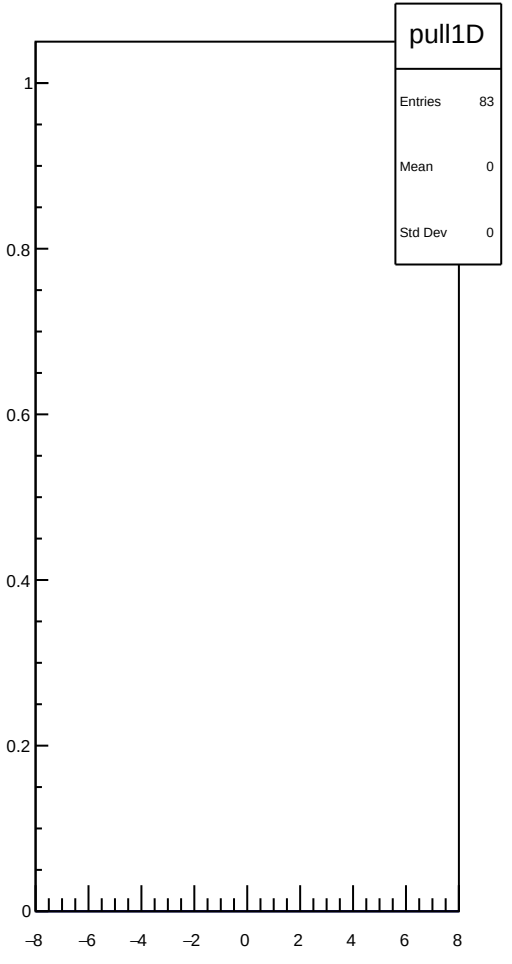

yield_bpm4acX_rms vs run
χ² / ndf 3.346e+05 / 82
p0 0.02256 ± 1.979e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

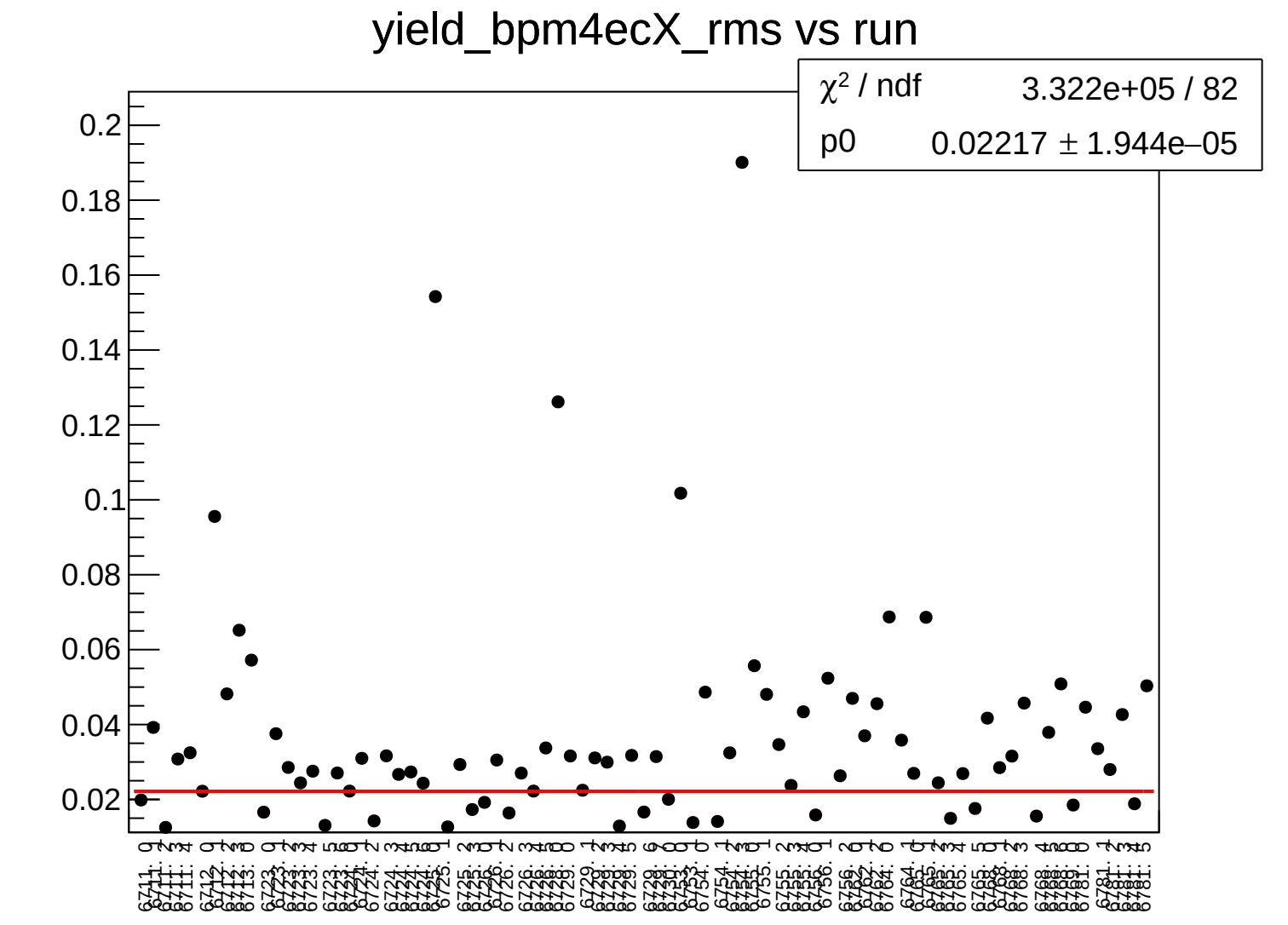

yield_bpm4acY_mean vs run
χ² / ndf 3.275e+05 / 82
p0 0.7873 ± 1.868e−05
0.83
0.82
0.81
0.8
0.79
0.78
0.77
0.76
pull
Entries 83
Mean 134.3
Std Dev 80.91
200
150
100
50
0
−50
−100

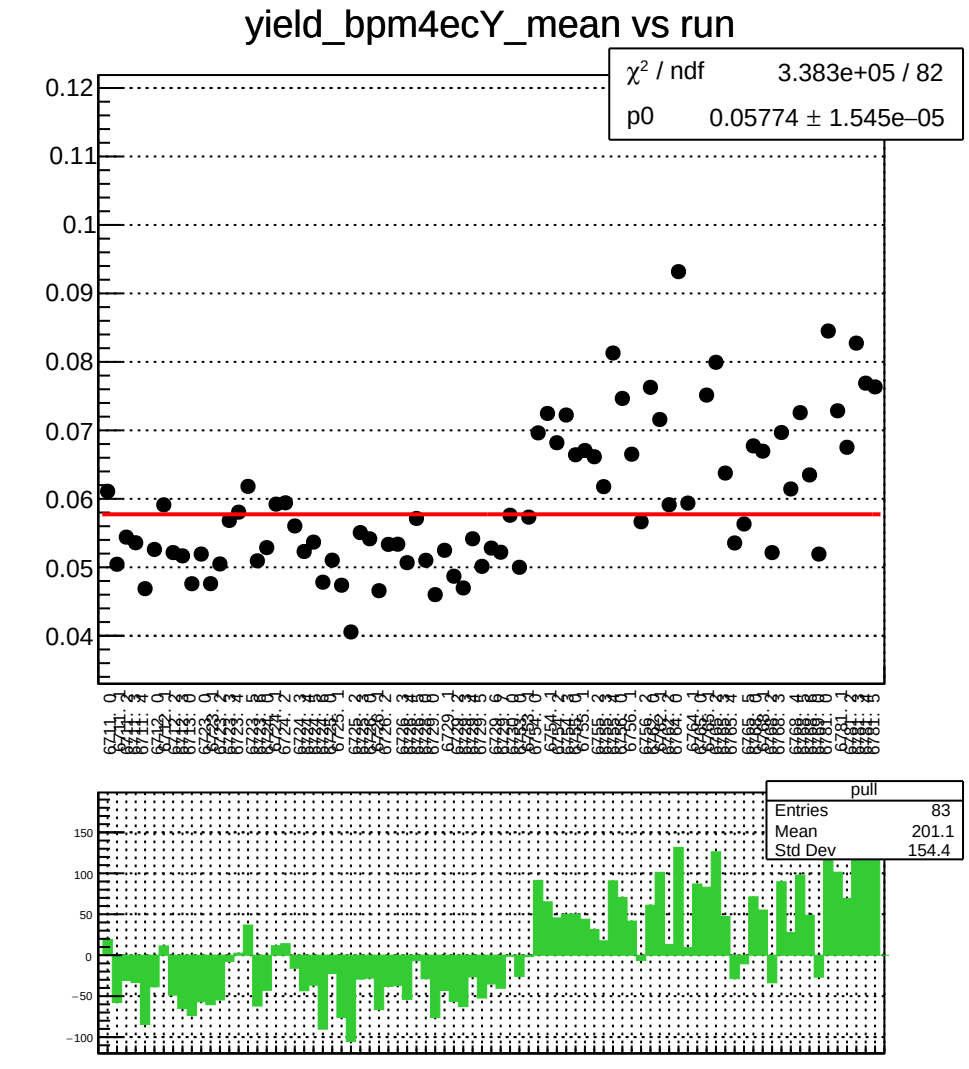

pull1D
Entries 83
Mean −2.11
Std Dev 5.169
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

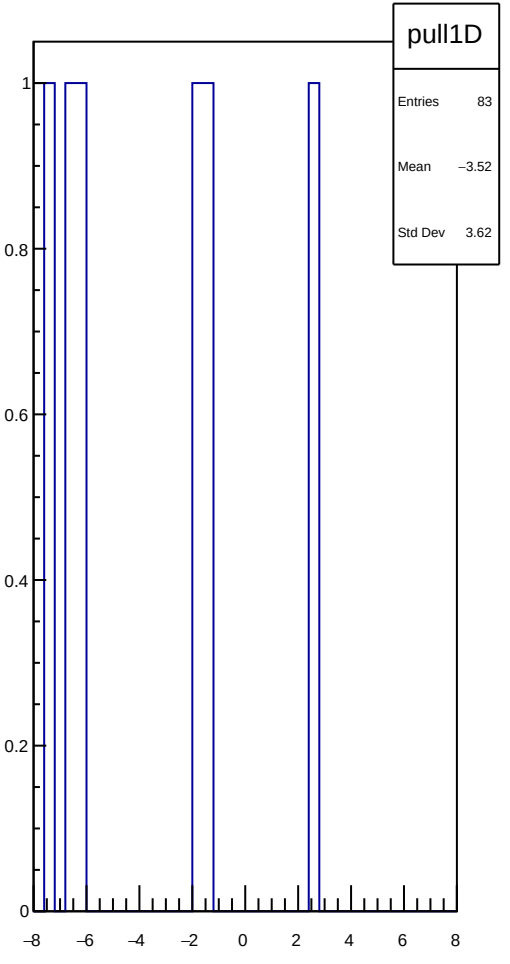

yield_bpm4acY_rms vs run
χ² / ndf 1.548e+05 / 82
p0 0.01607 ± 1.321e−05
0.06
0.05
0.04
0.03
0.02
0.01

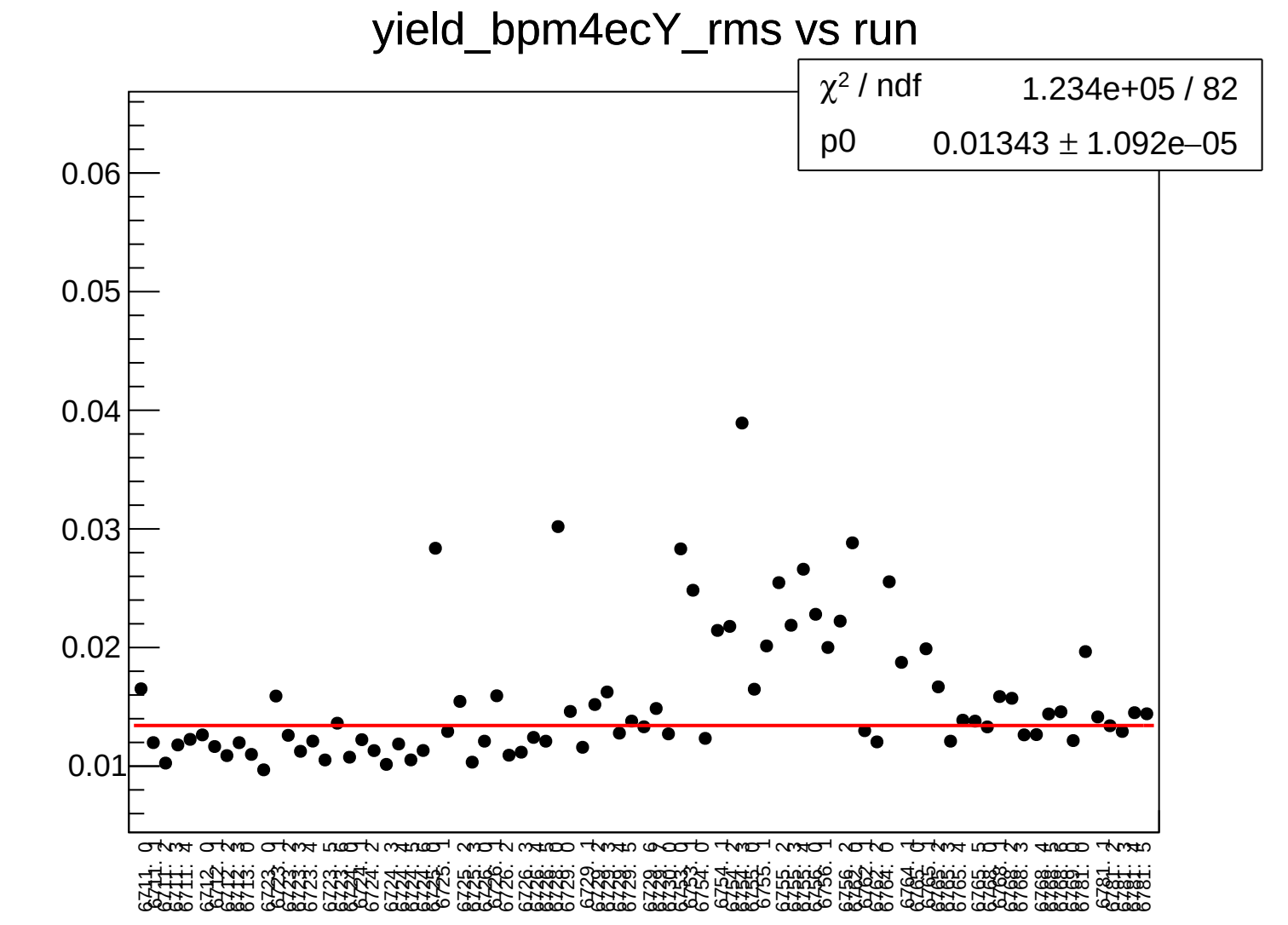

yield_bpm4ecX_mean vs run
χ² / ndf 6.084e+06 / 82
p0 −0.1051 ± 2.749e−05
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 83
Mean 220.4
Std Dev 176
600
400
200
0
−200
−400

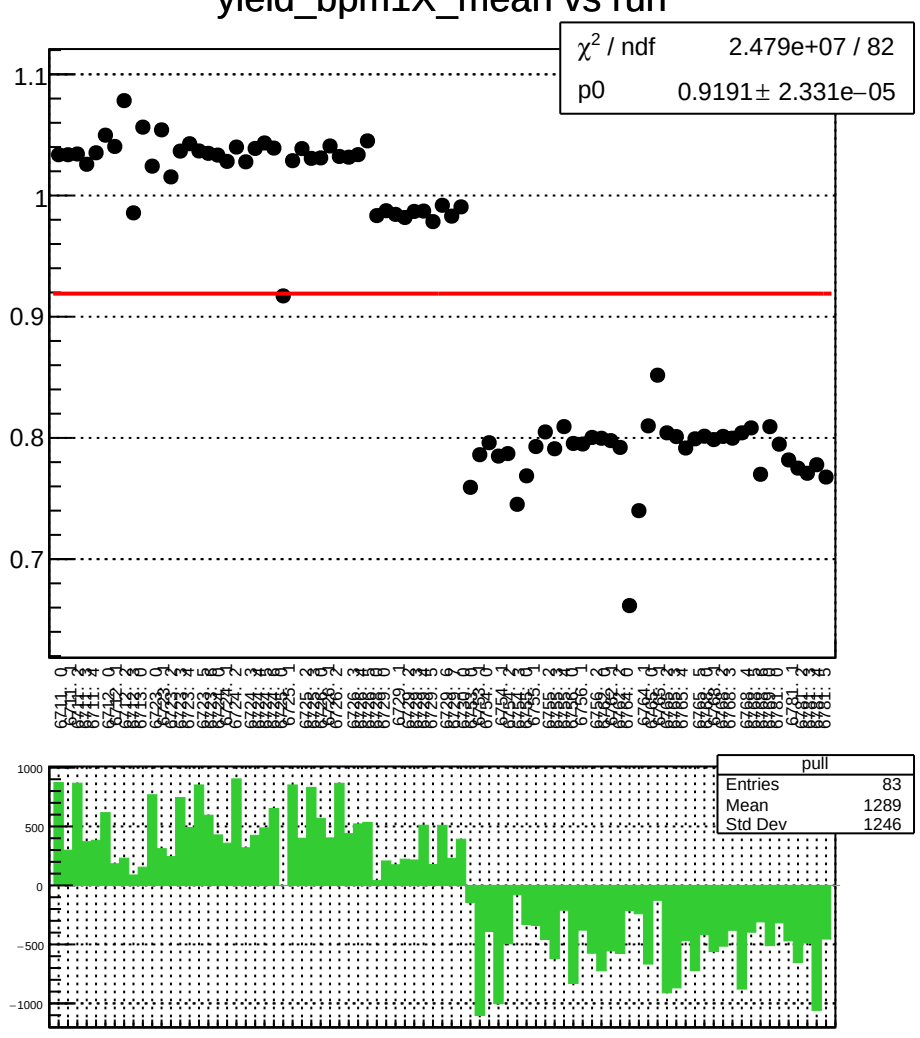

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

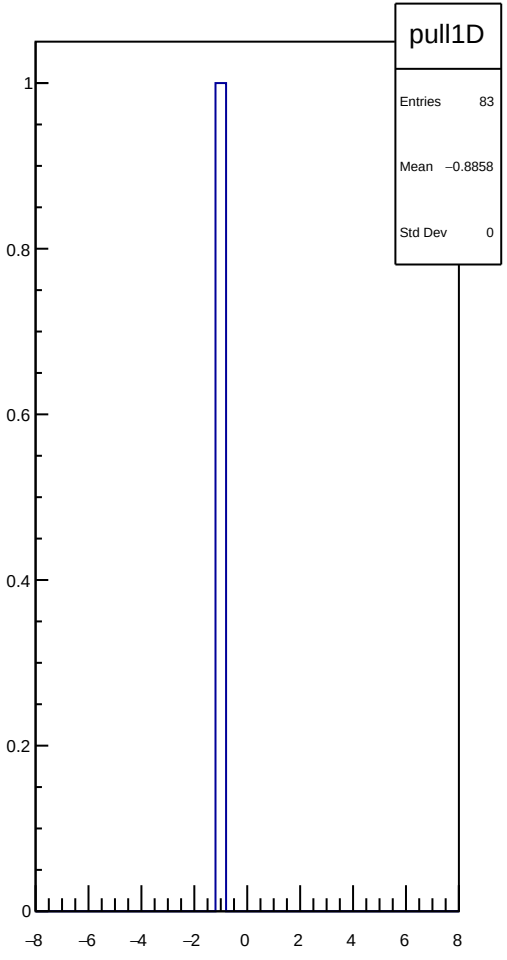

yield_bpm4ecX_rms vs run
χ² / ndf 3.322e+05 / 82
p0 0.02217 ± 1.944e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

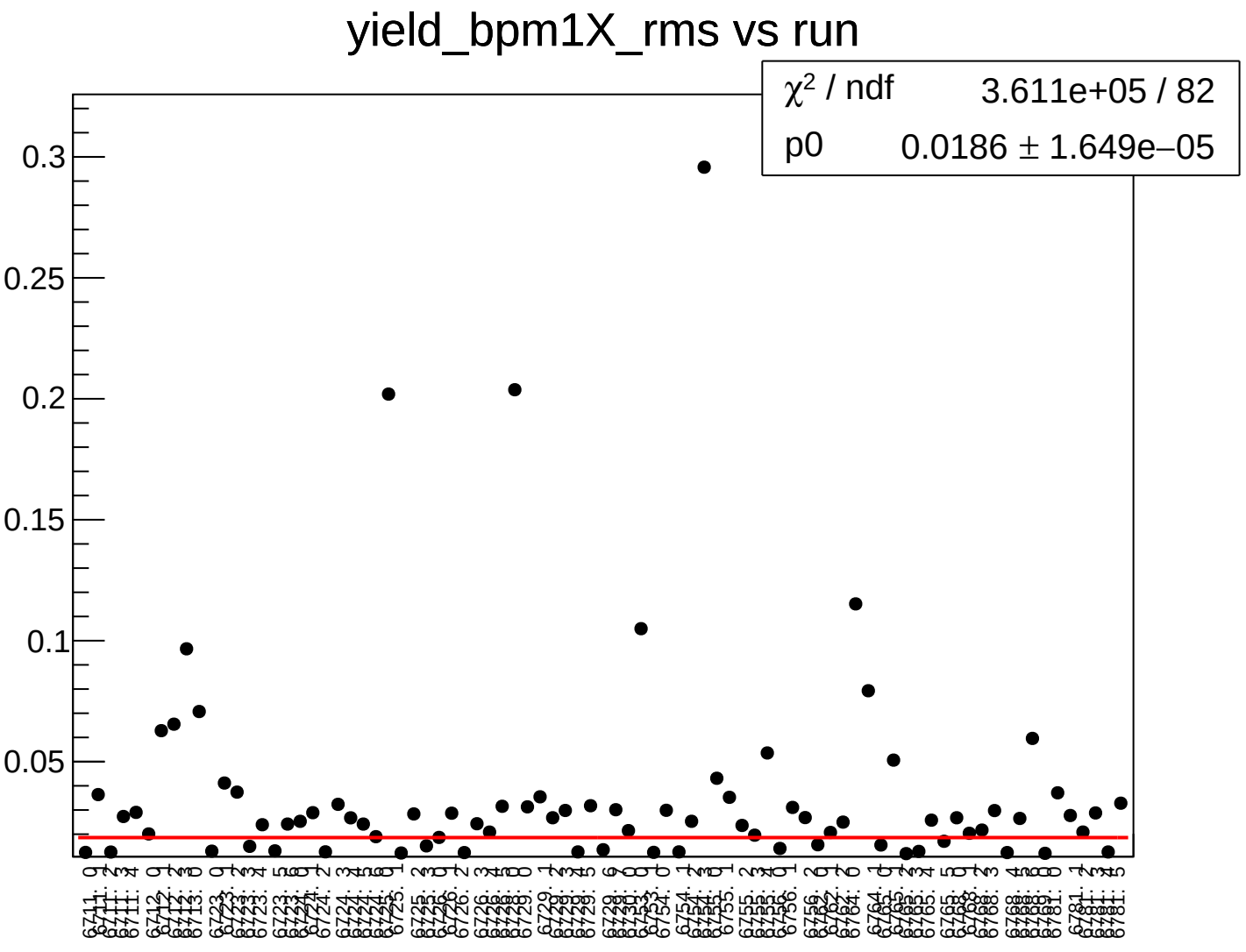

yield_bpm4ecY_mean vs run
χ² / ndf 3.383e+05 / 82
p0 0.05774 ± 1.545e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
pull
Entries 83
Mean 201.1
Std Dev 154.4
150
100
50
0
−50
−100

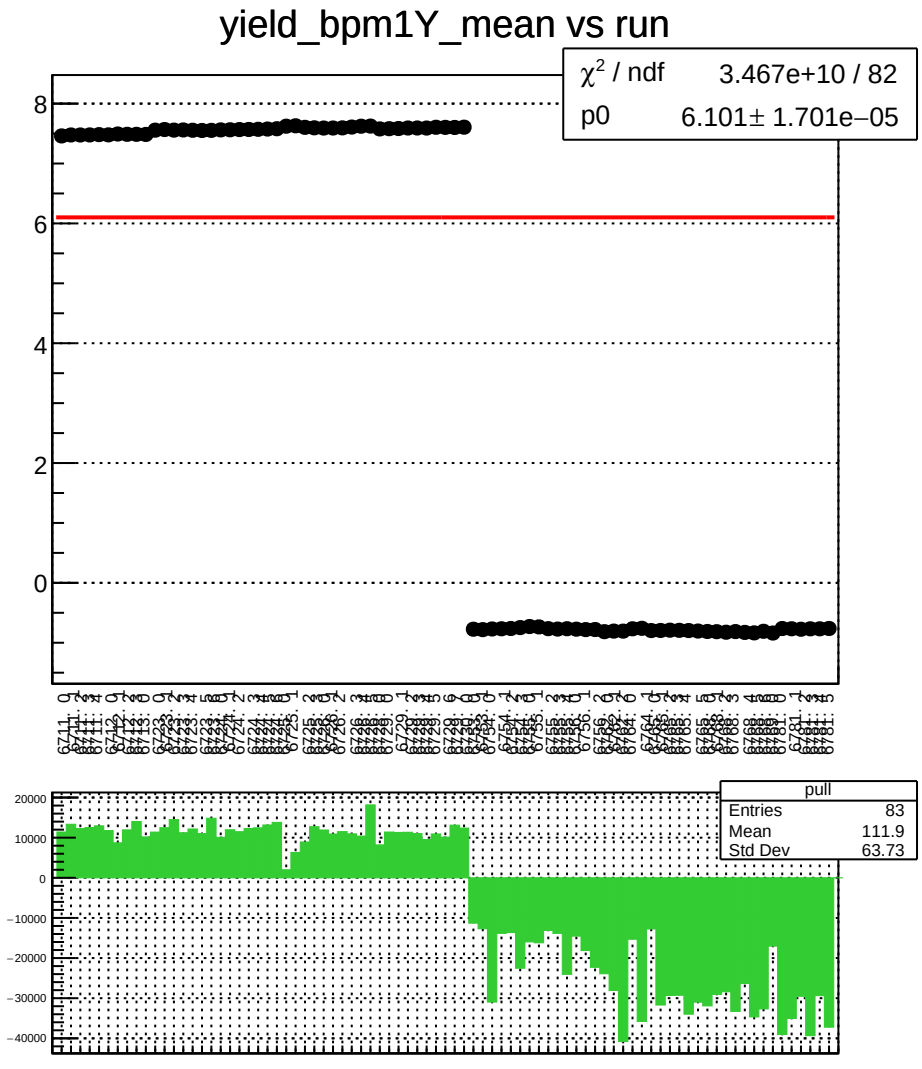

pull1D
Entries 83
Mean −3.52
Std Dev 3.62
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

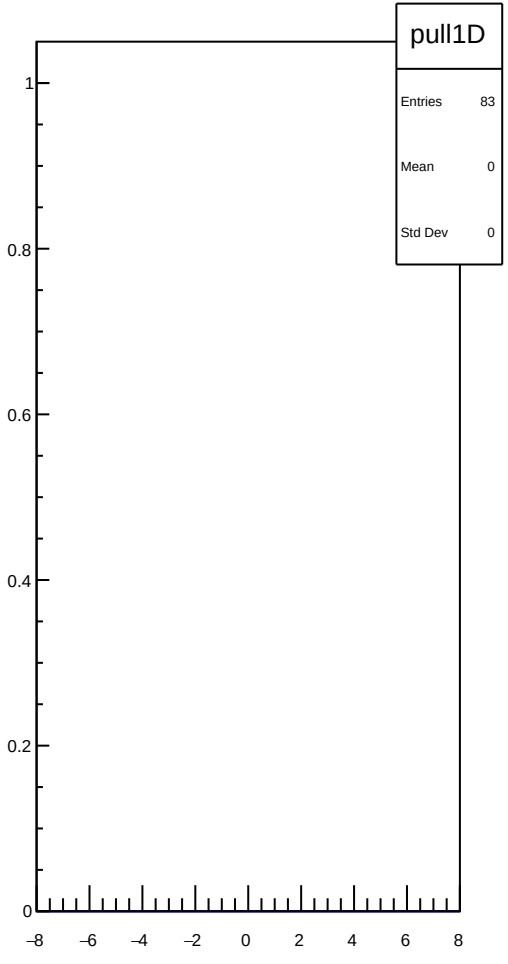

yield_bpm4ecY_rms vs run
χ² / ndf 1.234e+05 / 82
p0 0.01343 ± 1.092e−05
0.06
0.05
0.04
0.03
0.02
0.01

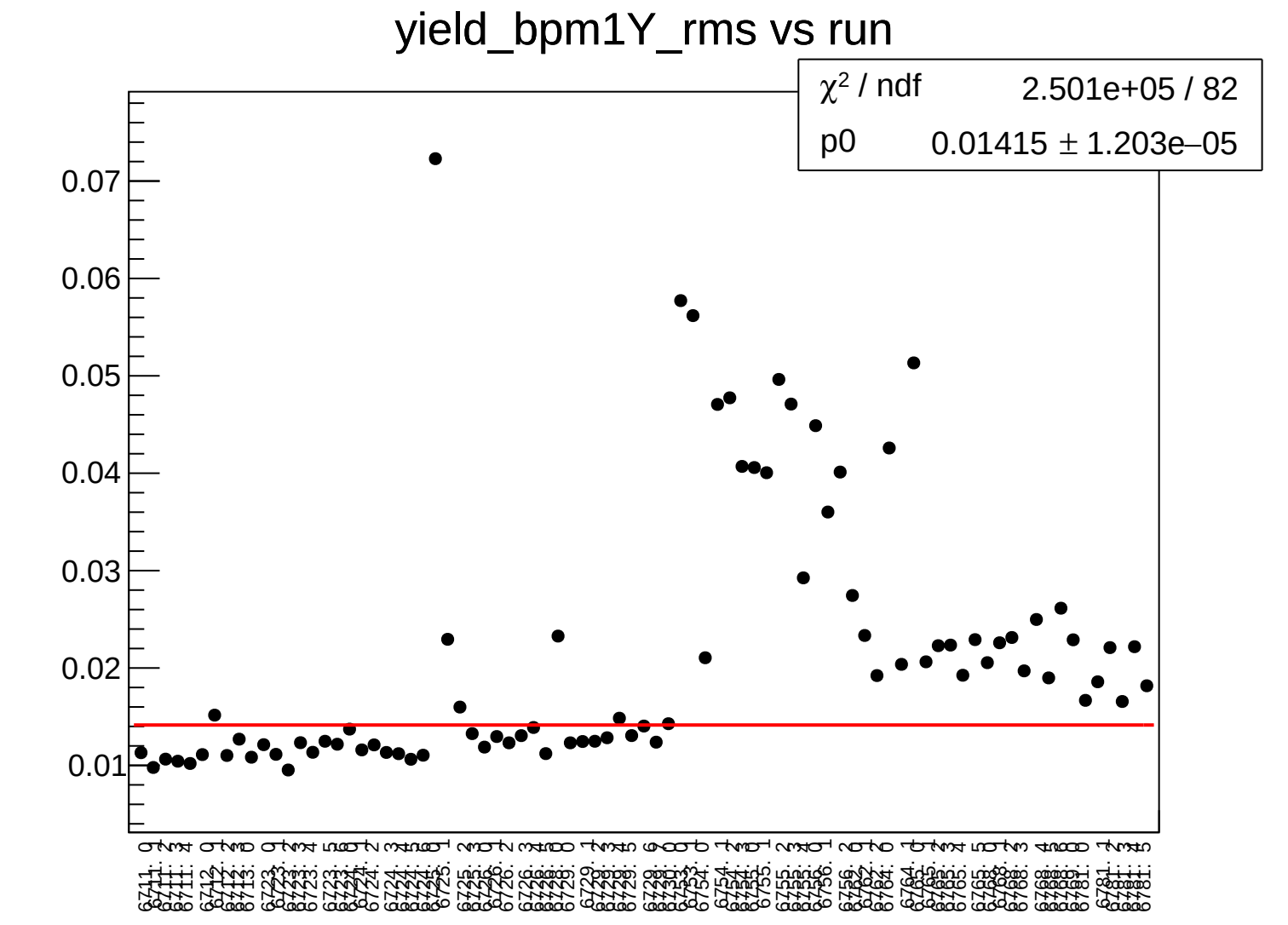

yield_bpm1X_mean vs run
χ² / ndf 2.479e+07 / 82
p0 0.9191 ± 2.331e−05
1.1
1
0.9
0.8
0.7
pull
Entries 83
Mean 1289
Std Dev 1246
1000
500
0
−500
−1000

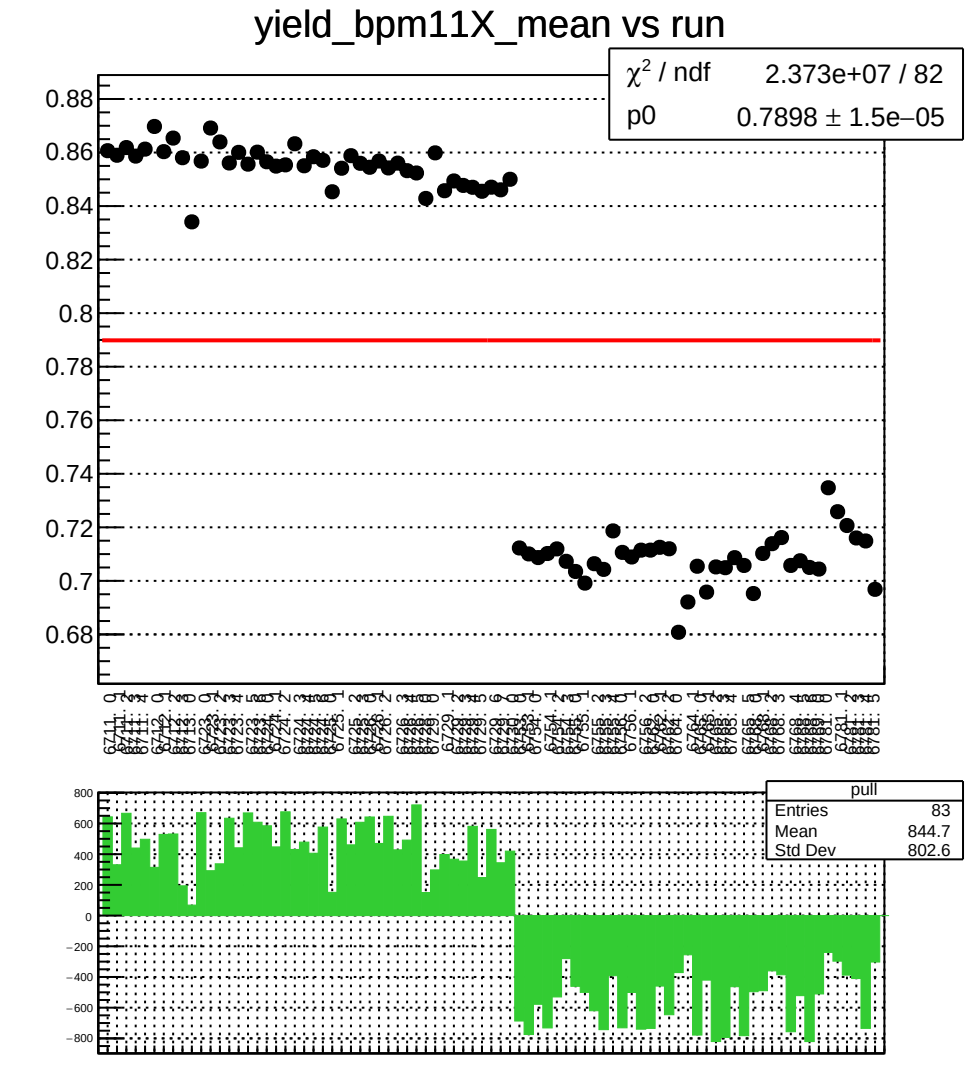

pull1D
Entries 83
Mean −0.8858
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

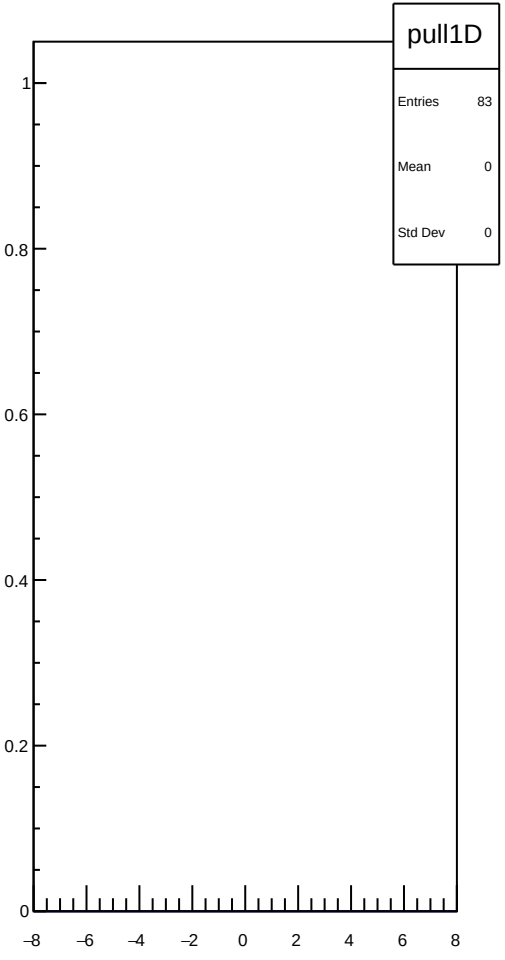

yield_bpm1X_rms vs run
χ² / ndf 3.611e+05 / 82
p0 0.0186 ± 1.649e−05
0.3
0.25
0.2
0.15
0.1
0.05

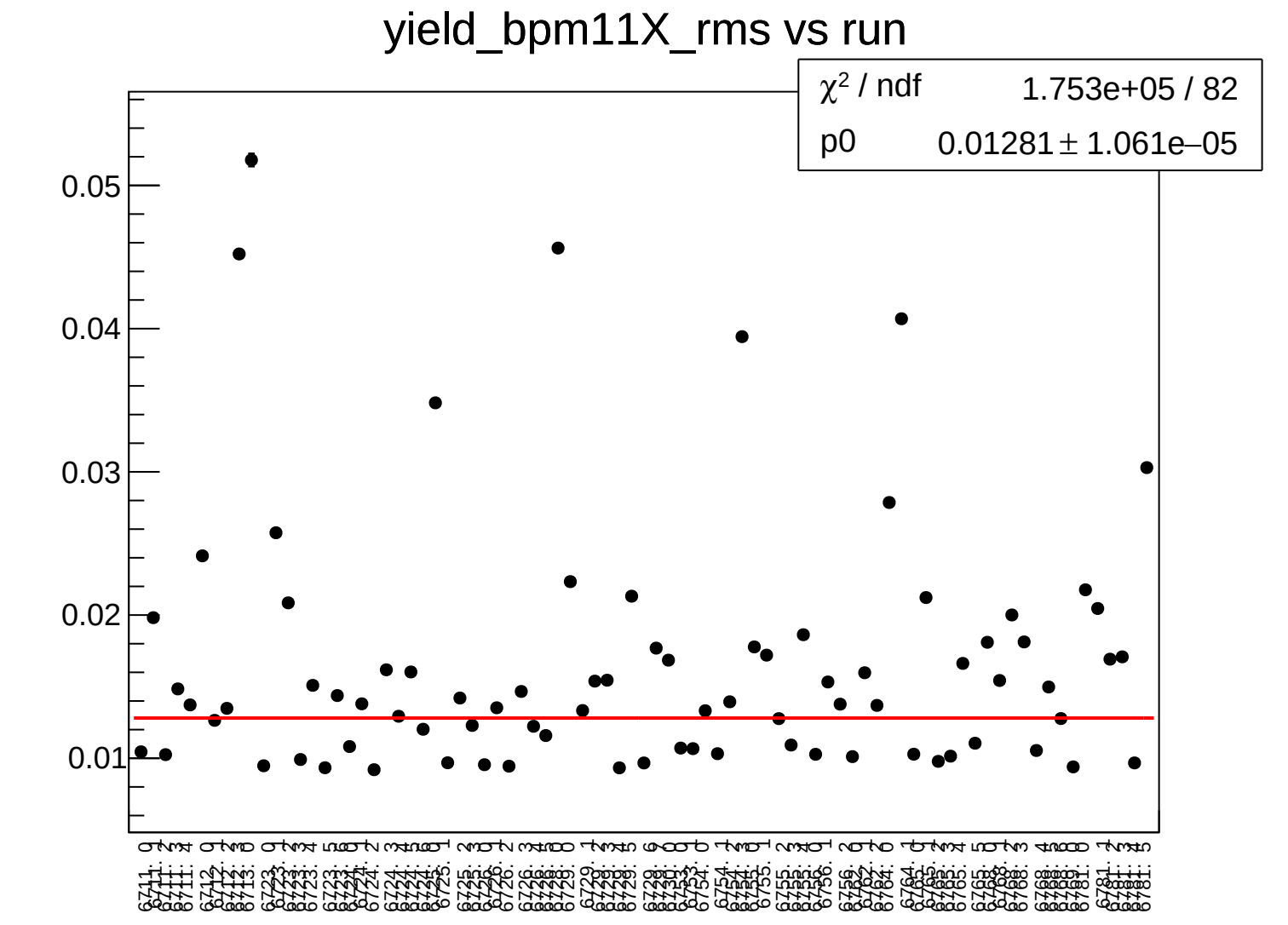

yield_bpm1Y_mean vs run
χ² / ndf 3.467e+10 / 82
p0 6.101± 1.701e−05
pull
Entries 83
Mean 111.9
Std Dev 63.73

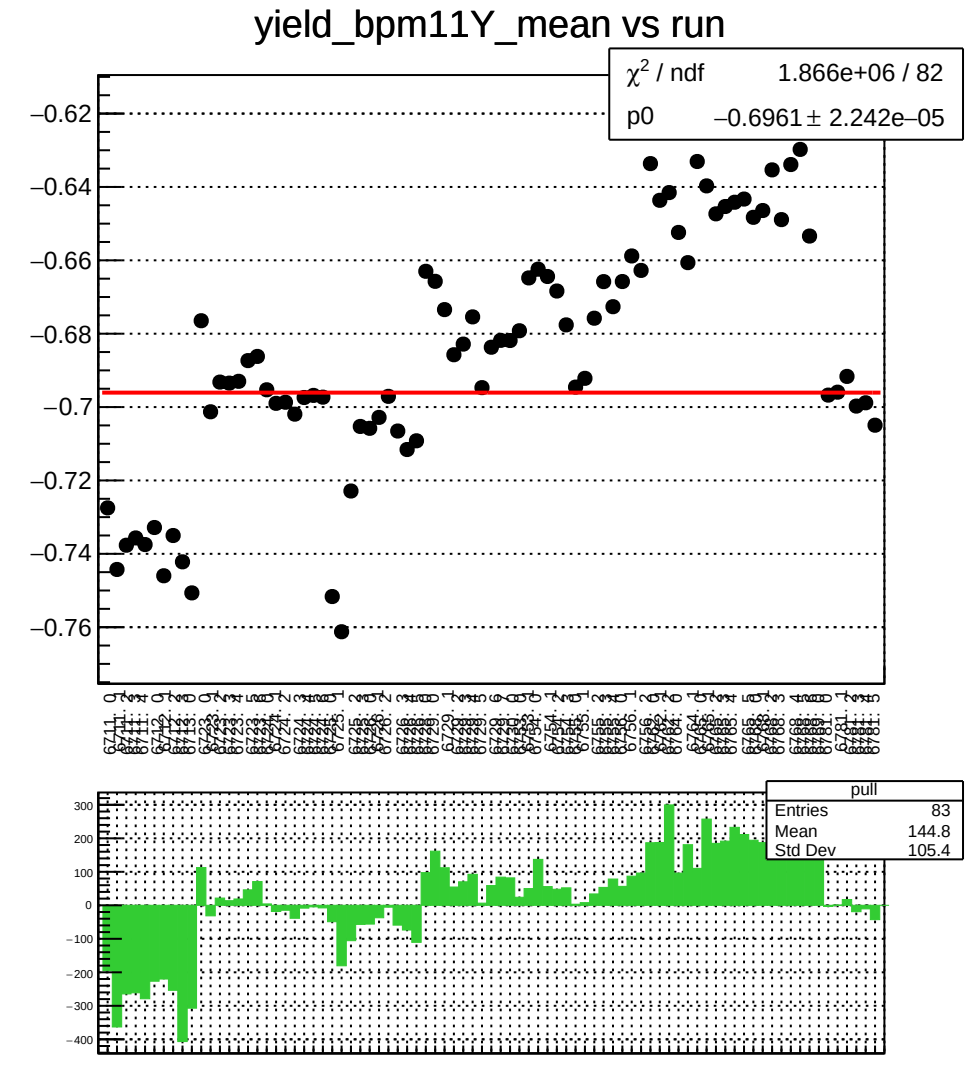

pull1D
Entries 83
Mean 0
Std Dev 0

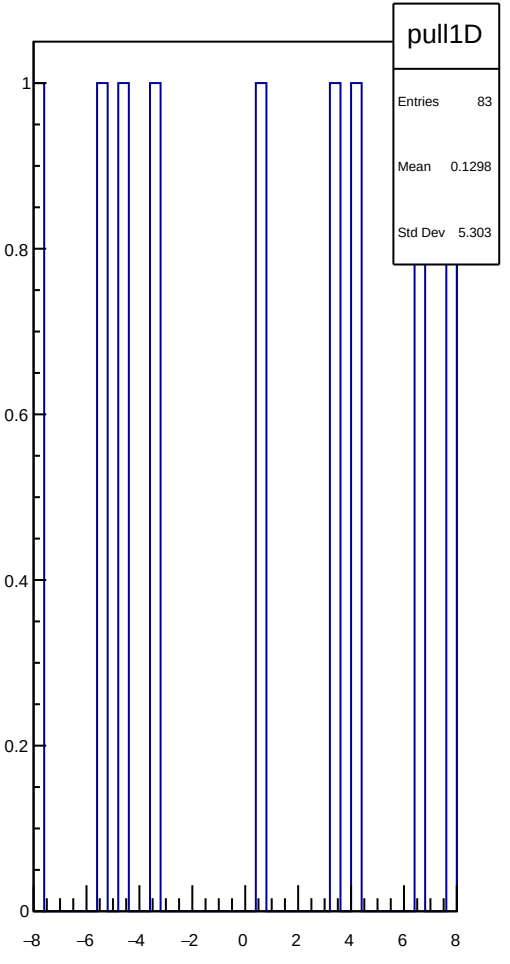

yield_bpm1Y_rms vs run
χ² / ndf 2.501e+05 / 82
p0 0.01415 ± 1.203e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

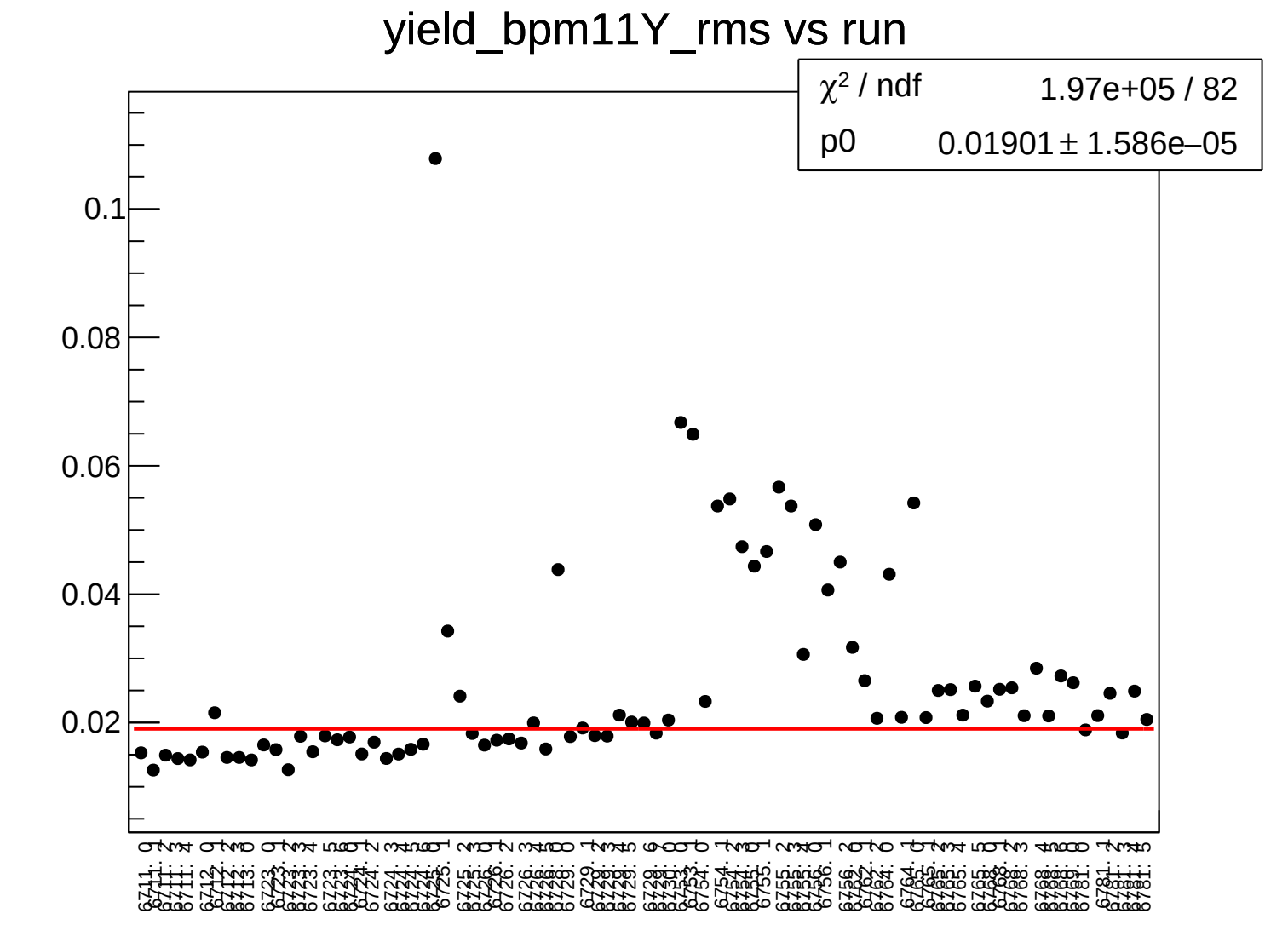

yield_bpm11X_mean vs run
χ² / ndf 2.373e+07 / 82
p0 0.7898 ± 1.5e−05
0.88
0.86
0.84
0.82
0.8
0.78
0.76
0.74
0.72
0.7
0.68
pull
Entries 83
Mean 844.7
Std Dev 802.6
800
600
400
200
0
−200
−400
−600
−800

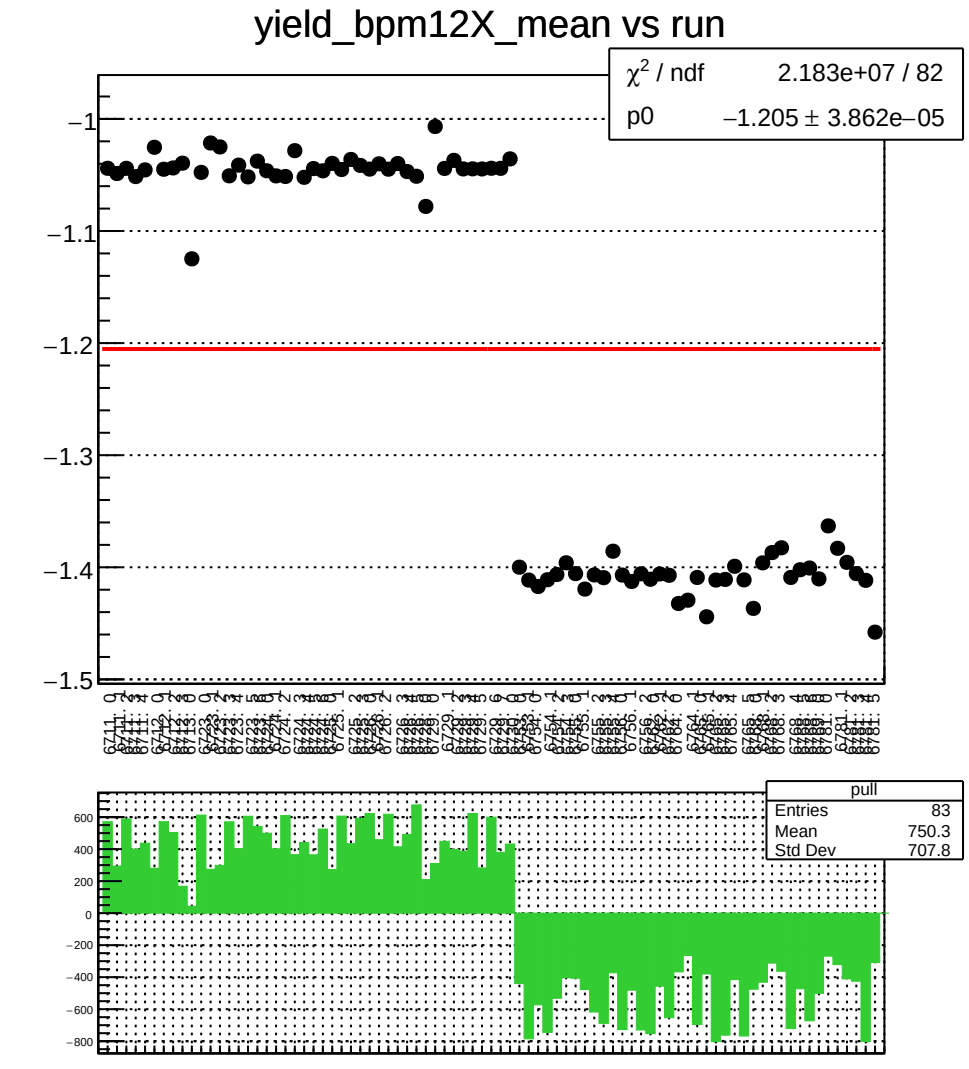

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

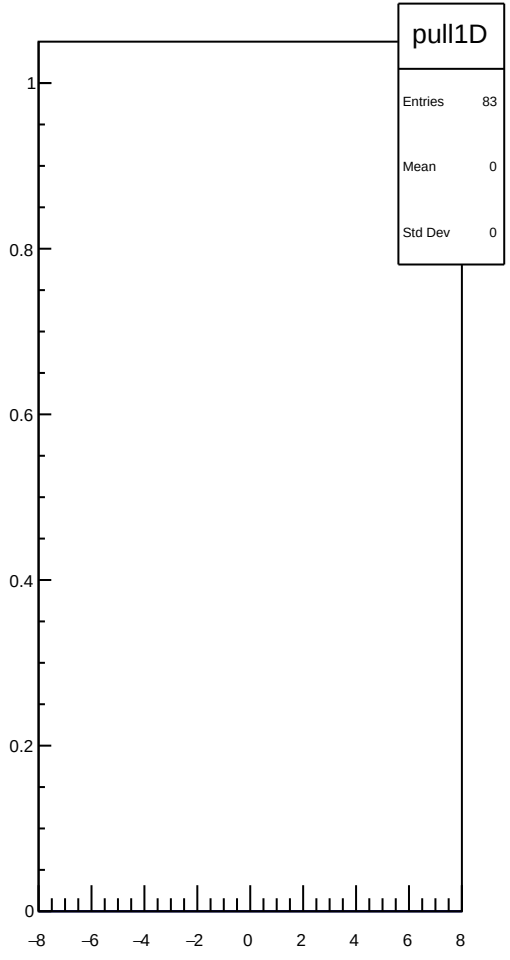

yield_bpm11X_rms vs run
χ² / ndf 1.753e+05 / 82
p0 0.01281 ± 1.061e–05
0.05
0.04
0.03
0.02
0.01

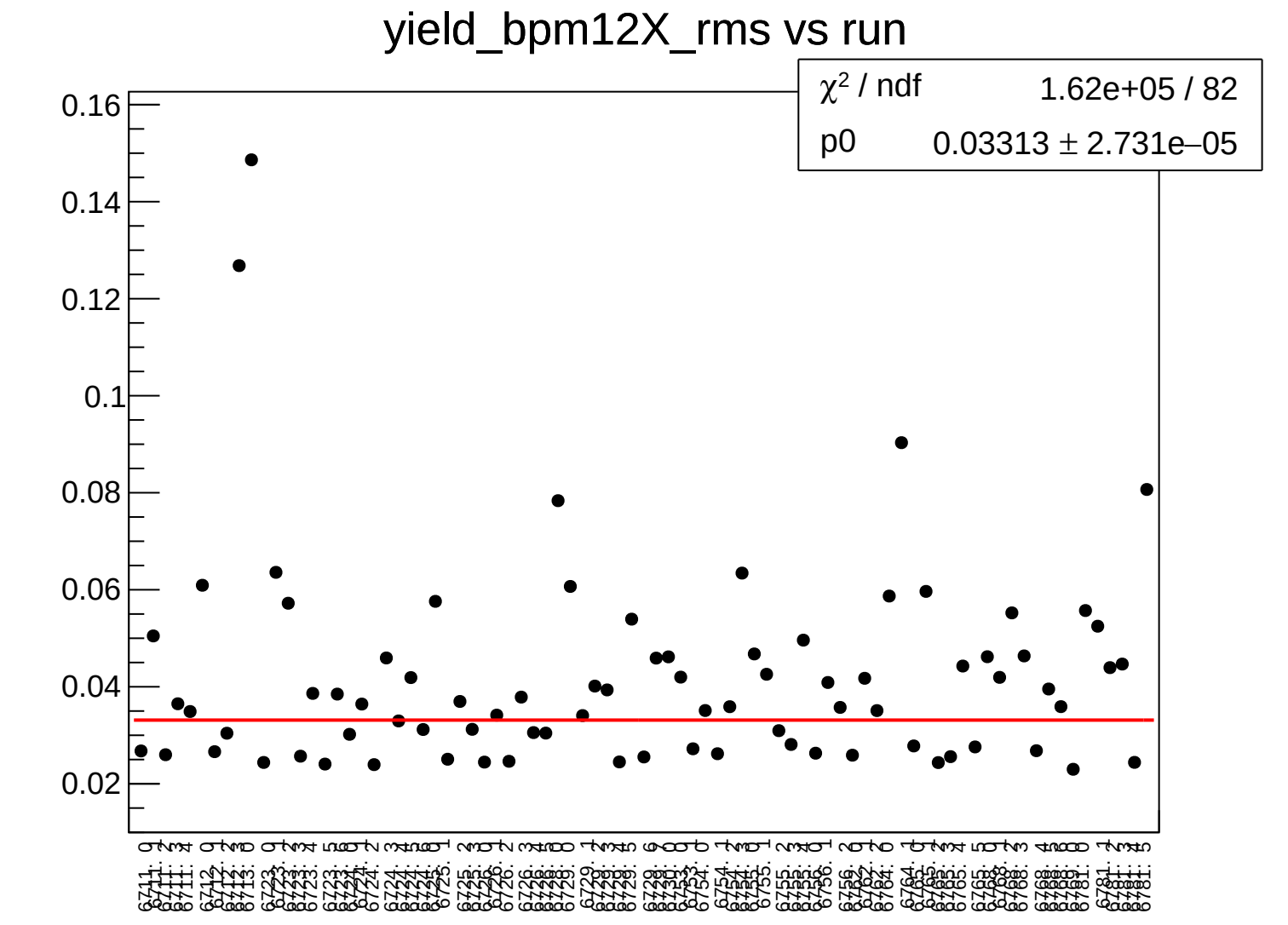

yield_bpm11Y_mean vs run
χ² / ndf 1.866e+06 / 82
p0 −0.6961 ± 2.242e−05
−0.62
−0.64
−0.66
−0.68
−0.7
−0.72
−0.74
−0.76
pull
Entries 83
Mean 144.8
Std Dev 105.4
300
200
100
0
−100
−200
−300
−400

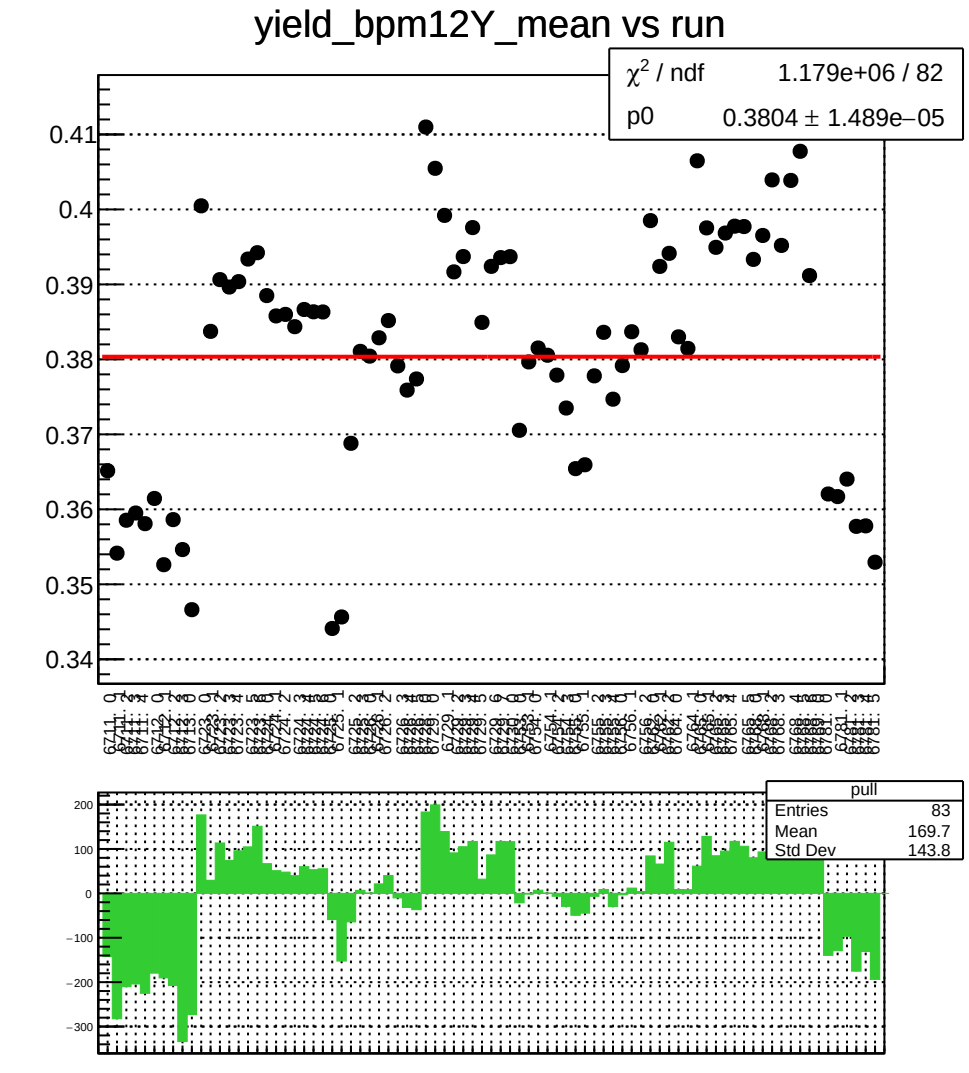

pull1D
Entries 83
Mean 0.1298
Std Dev 5.303
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

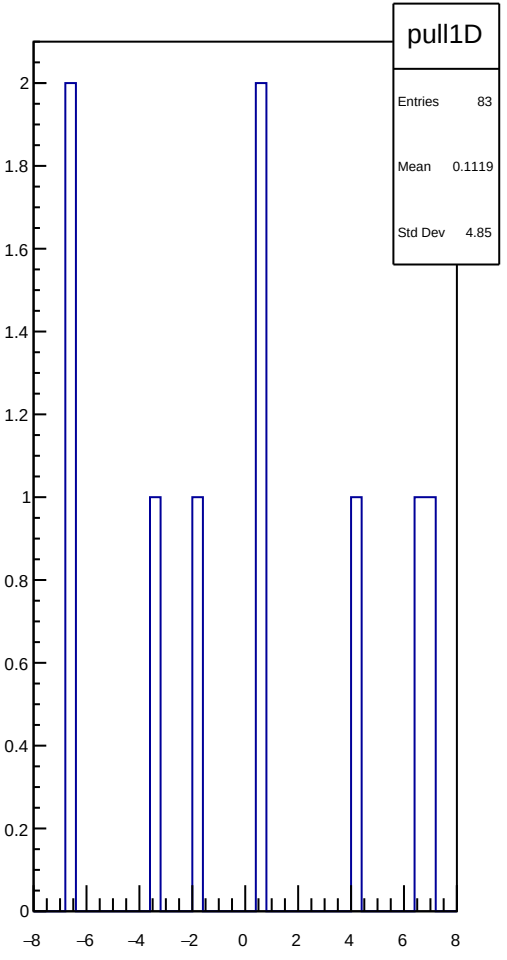

yield_bpm11Y_rms vs run
χ^2 / ndf 1.97e+05 / 82
p0 0.01901 ± 1.586e−05
0.1
0.08
0.06
0.04
0.02

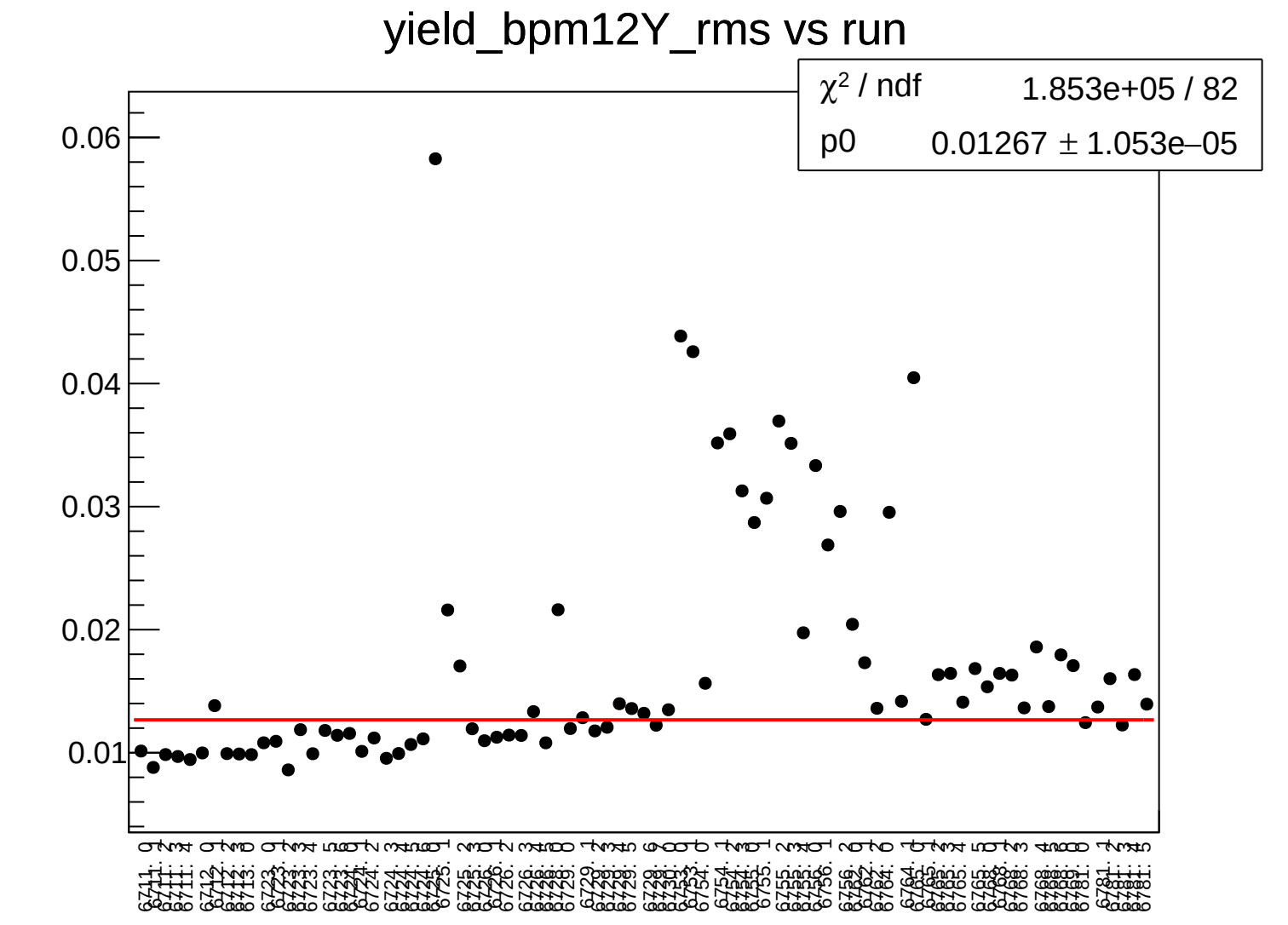

yield_bpm12X_mean vs run
χ² / ndf 2.183e+07 / 82
p0 −1.205 ± 3.862e−05
pull
Entries 83
Mean 750.3
Std Dev 707.8

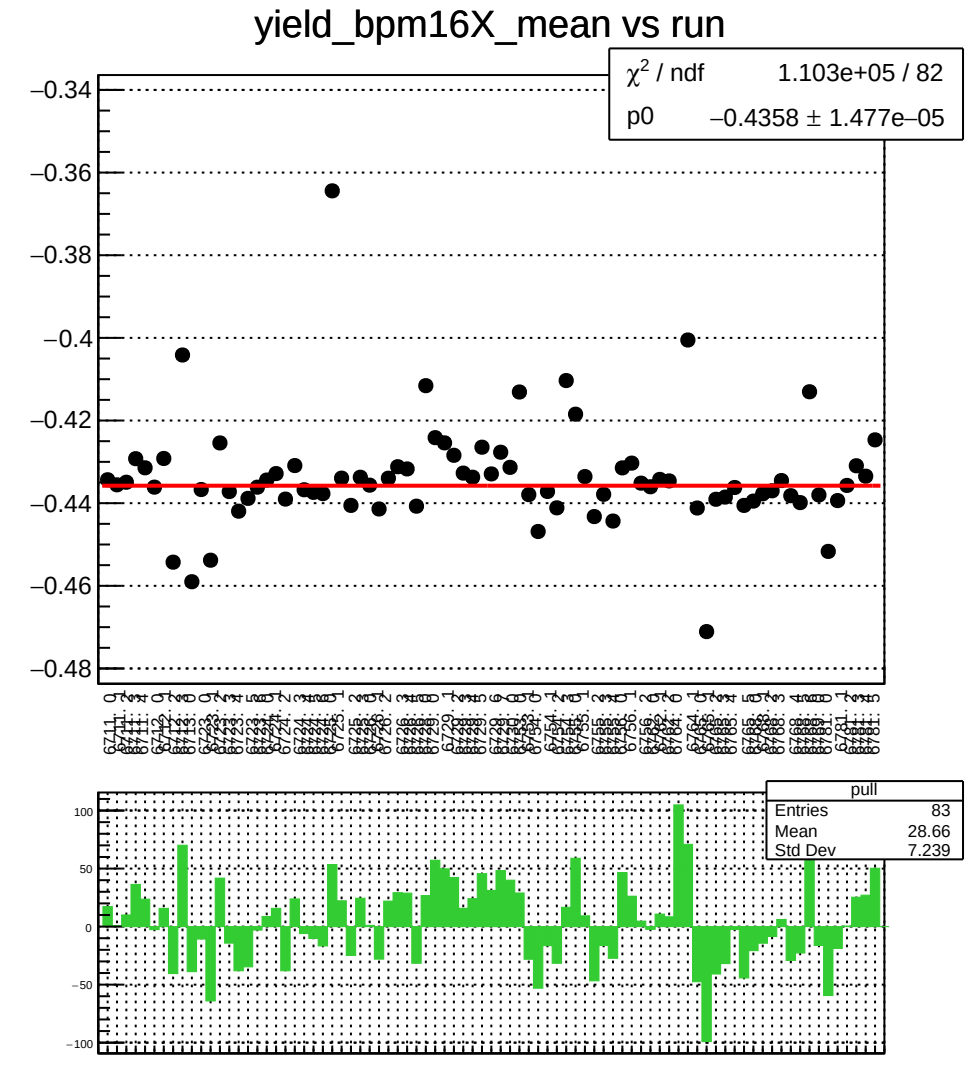

pull1D
Entries 83
Mean 0
Std Dev 0

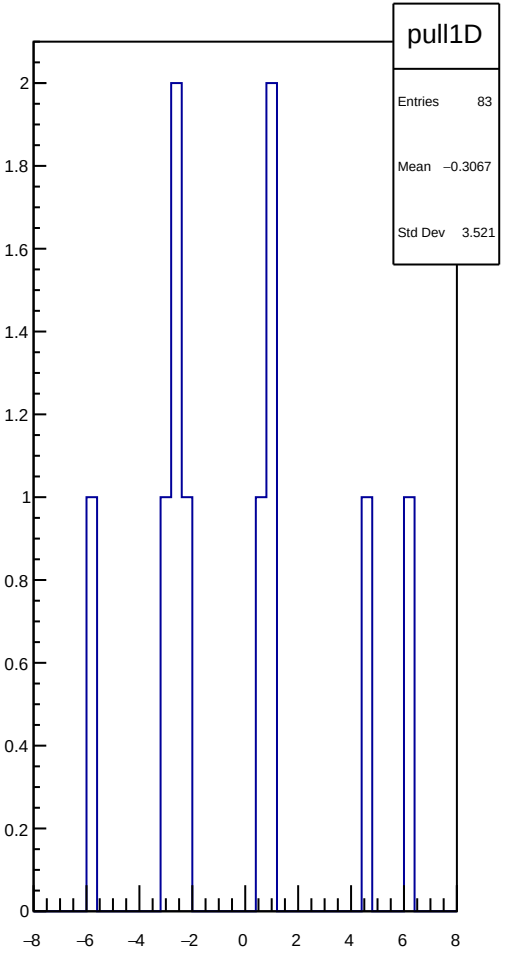

yield_bpm12X_rms vs run
χ² / ndf 1.62e+05 / 82
p0 0.03313 ± 2.731e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

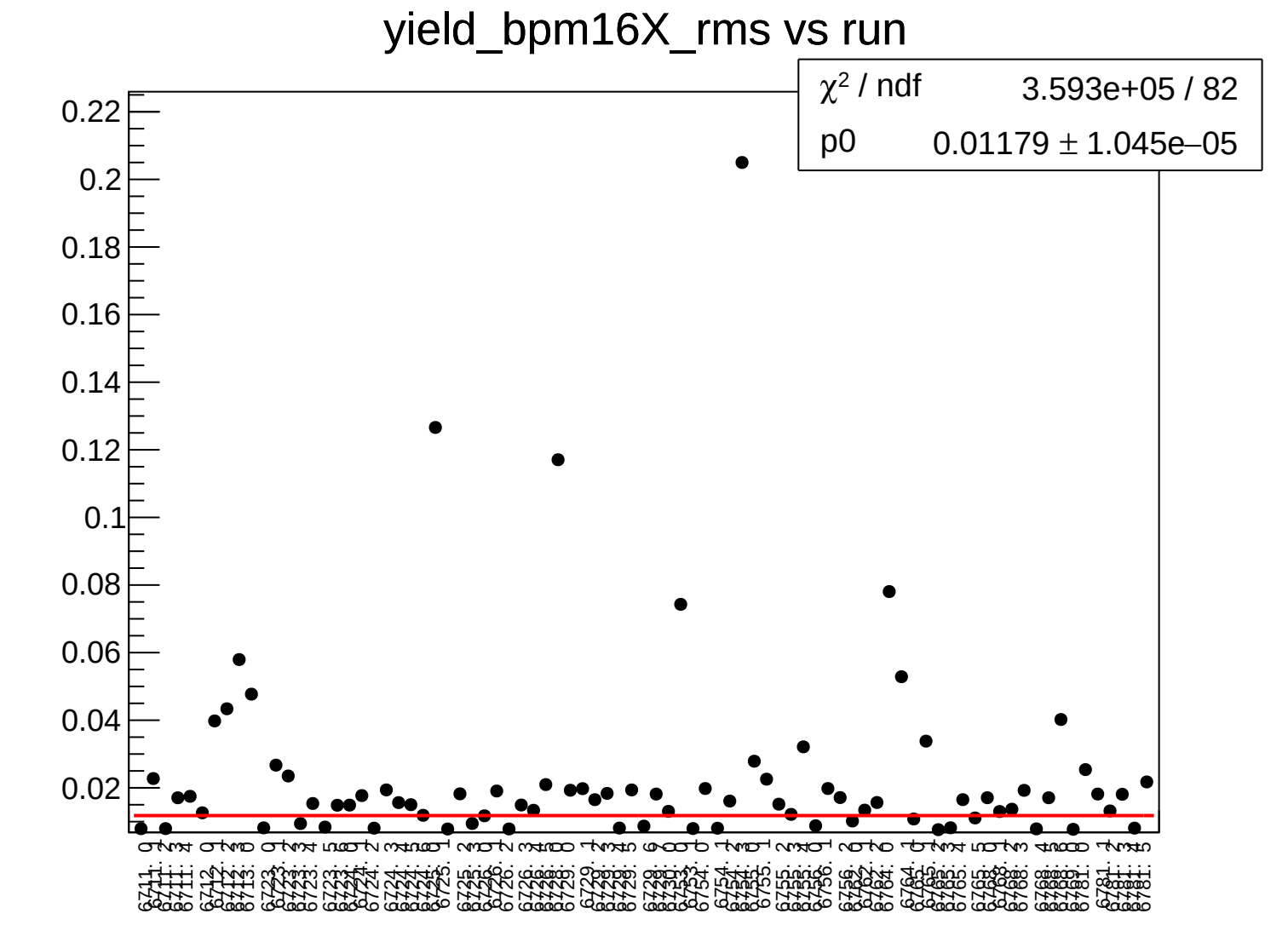

yield_bpm12Y_mean vs run
χ² / ndf 1.179e+06 / 82
p0 0.3804 ± 1.489e−05
0.41
0.4
0.39
0.38
0.37
0.36
0.35
0.34
pull
Entries 83
Mean 169.7
Std Dev 143.8
200
100
0
−100
−200
−300

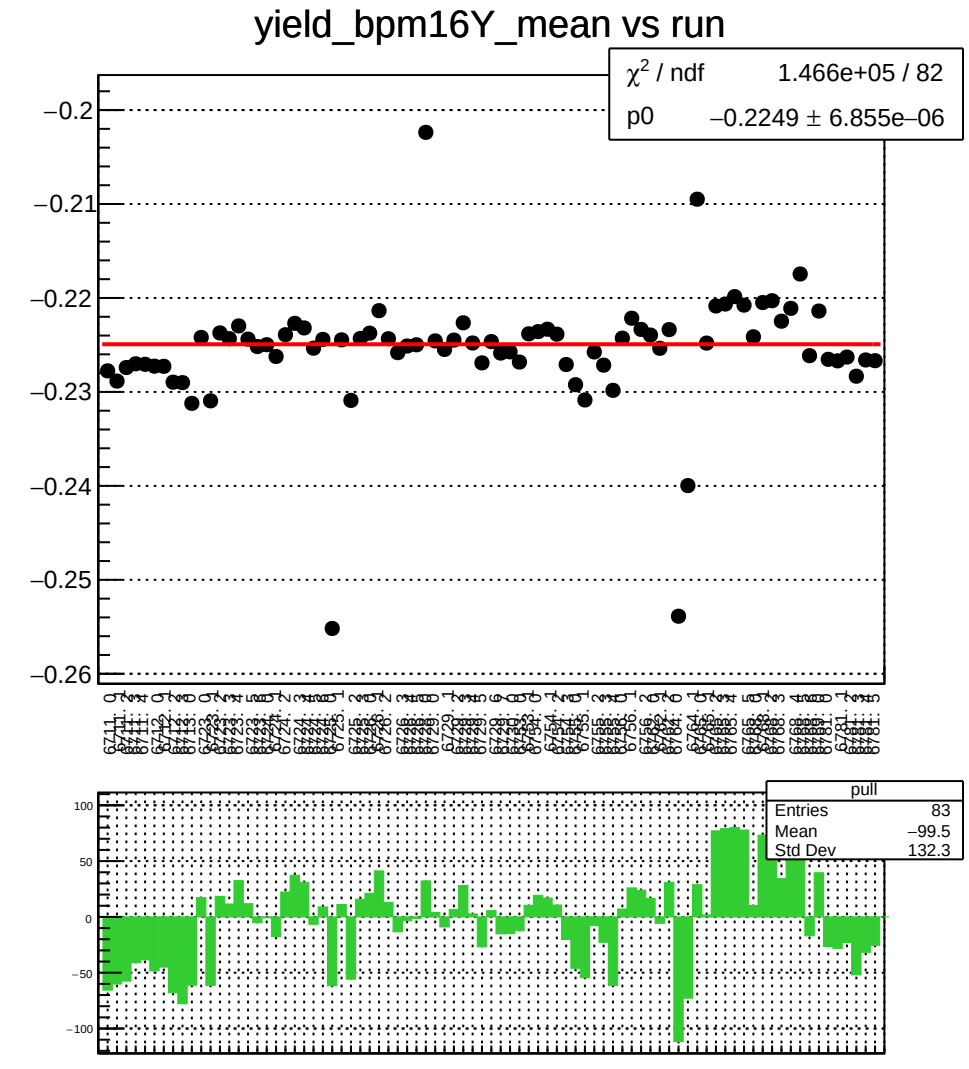

pull1D
Entries 83
Mean 0.1119
Std Dev 4.85
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

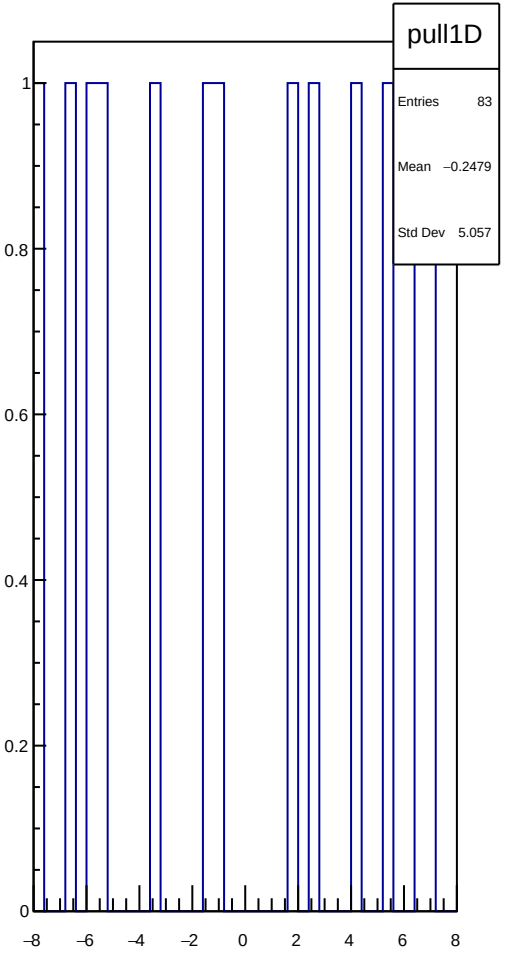

yield_bpm12Y_rms vs run
χ² / ndf 1.853e+05 / 82
p0 0.01267 ± 1.053e–05
0.06
0.05
0.04
0.03
0.02
0.01

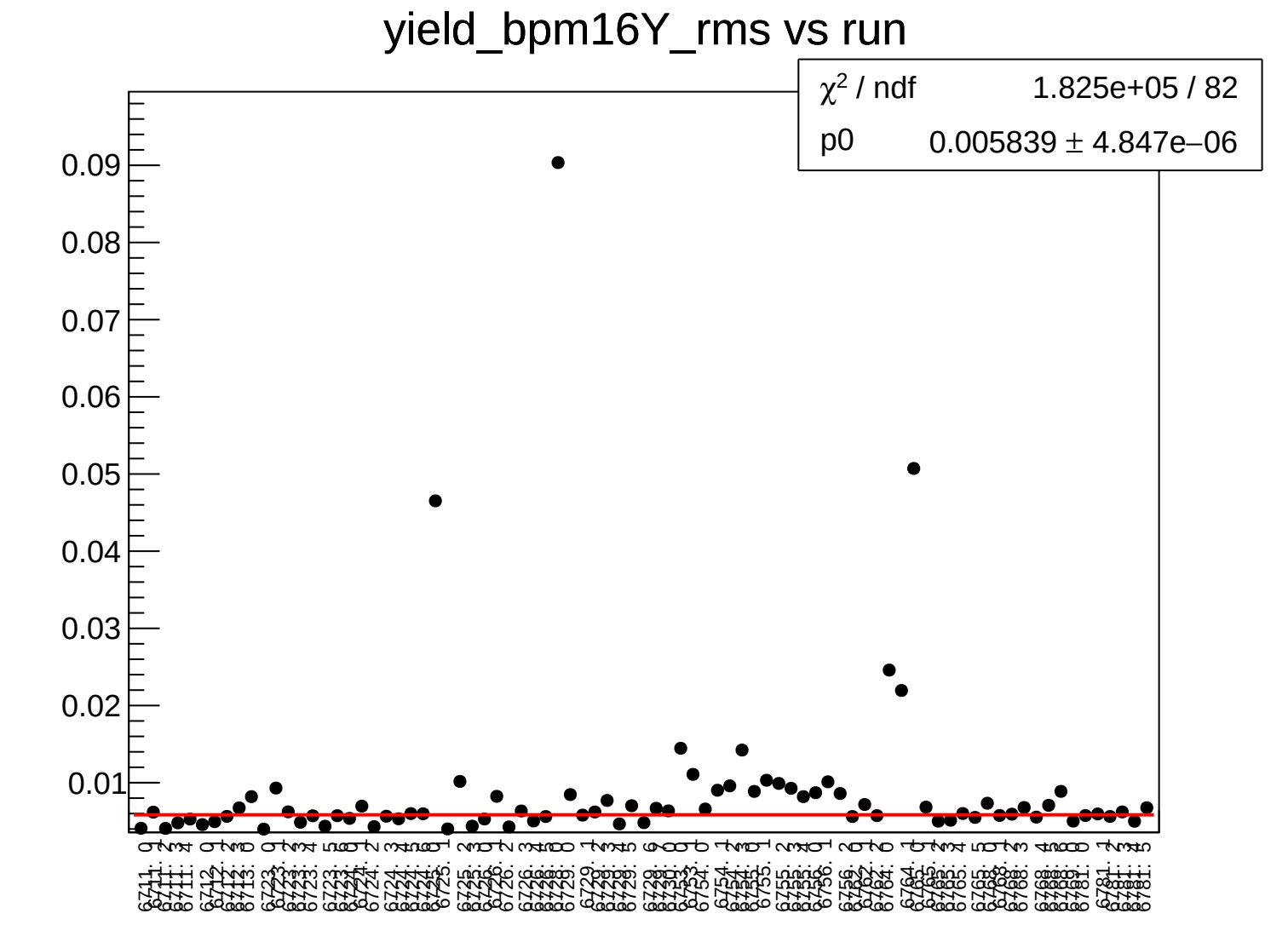

yield_bpm16X_mean vs run
χ² / ndf 1.103e+05 / 82
p0 −0.4358 ± 1.477e−05
−0.34
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
pull
Entries 83
Mean 28.66
Std Dev 7.239
100
50
0
−50
−100

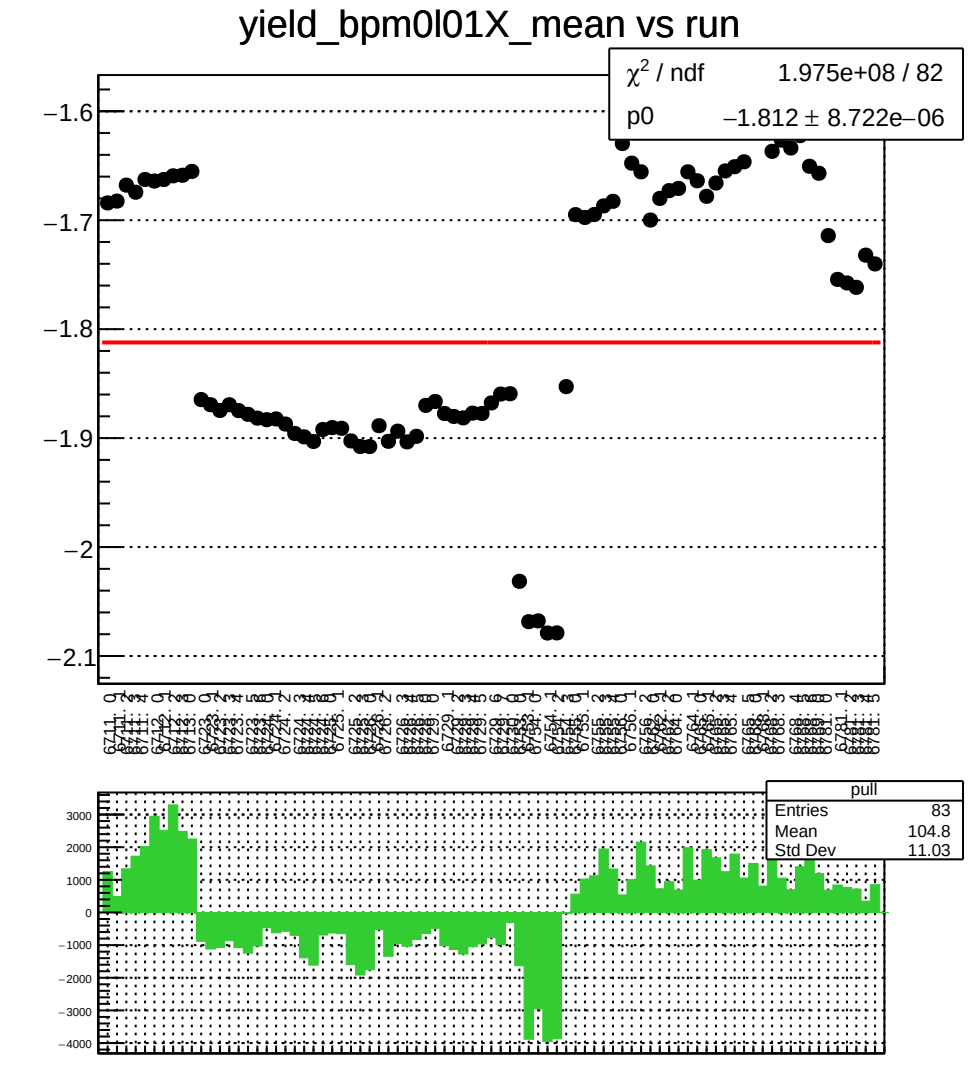

pull1D
Entries 83
Mean −0.3067
Std Dev 3.521
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

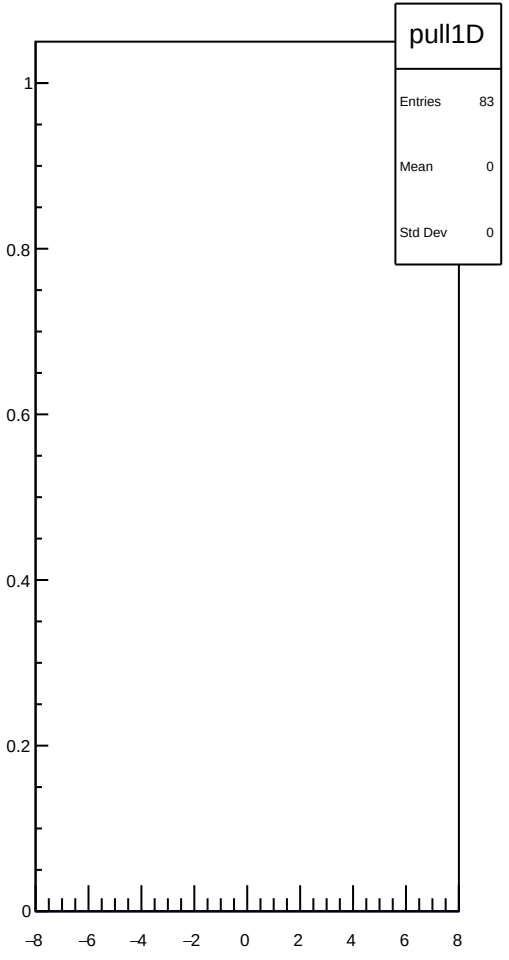

yield_bpm16X_rms vs run
χ² / ndf 3.593e+05 / 82
p0 0.01179 ± 1.045e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

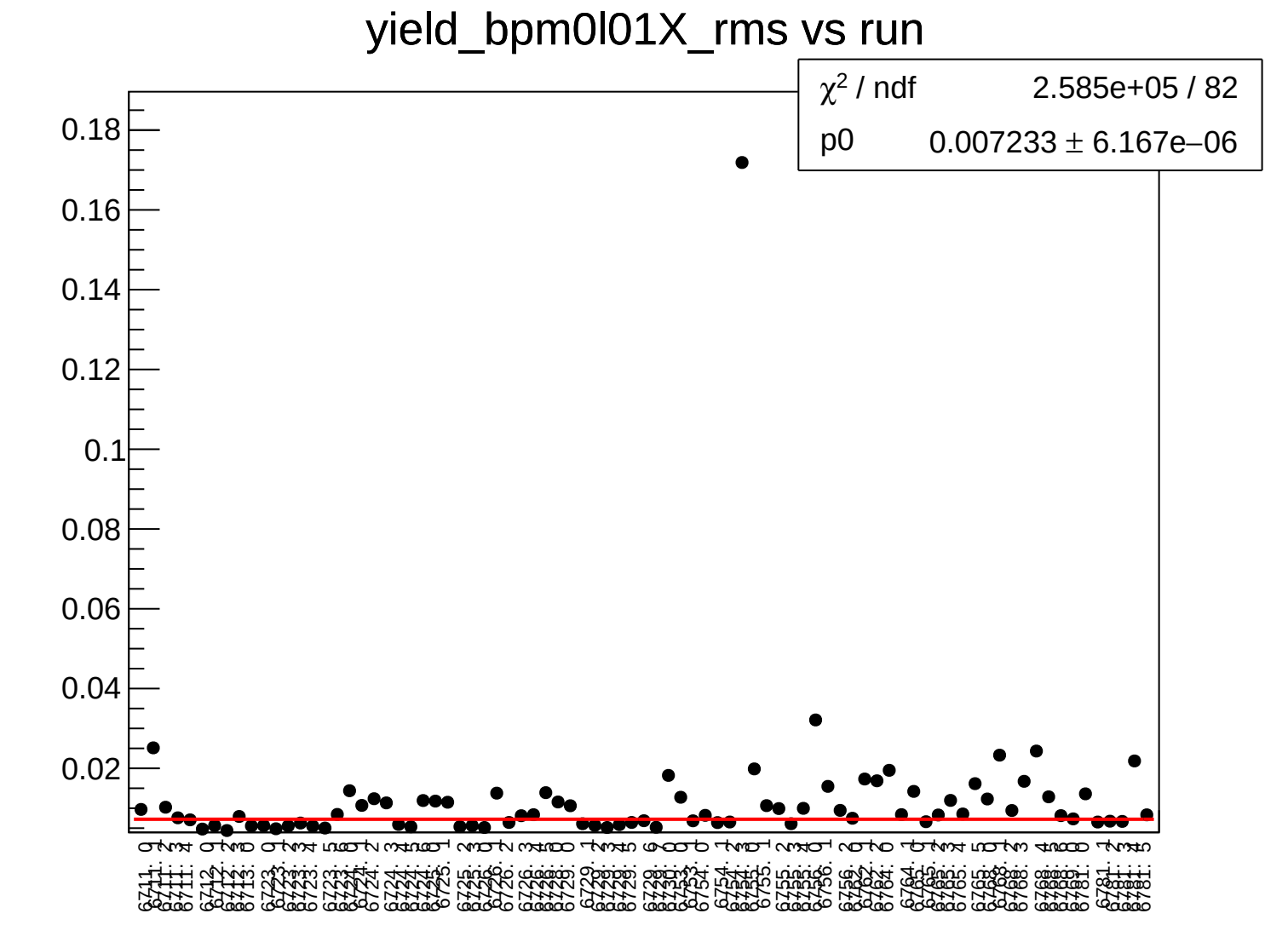

yield_bpm16Y_mean vs run
χ² / ndf 1.466e+05 / 82
p0 −0.2249 ± 6.855e−06
−0.2
−0.21
−0.22
−0.23
−0.24
−0.25
−0.26
pull
Entries 83
Mean −99.5
Std Dev 132.3
100
50
0
−50
−100

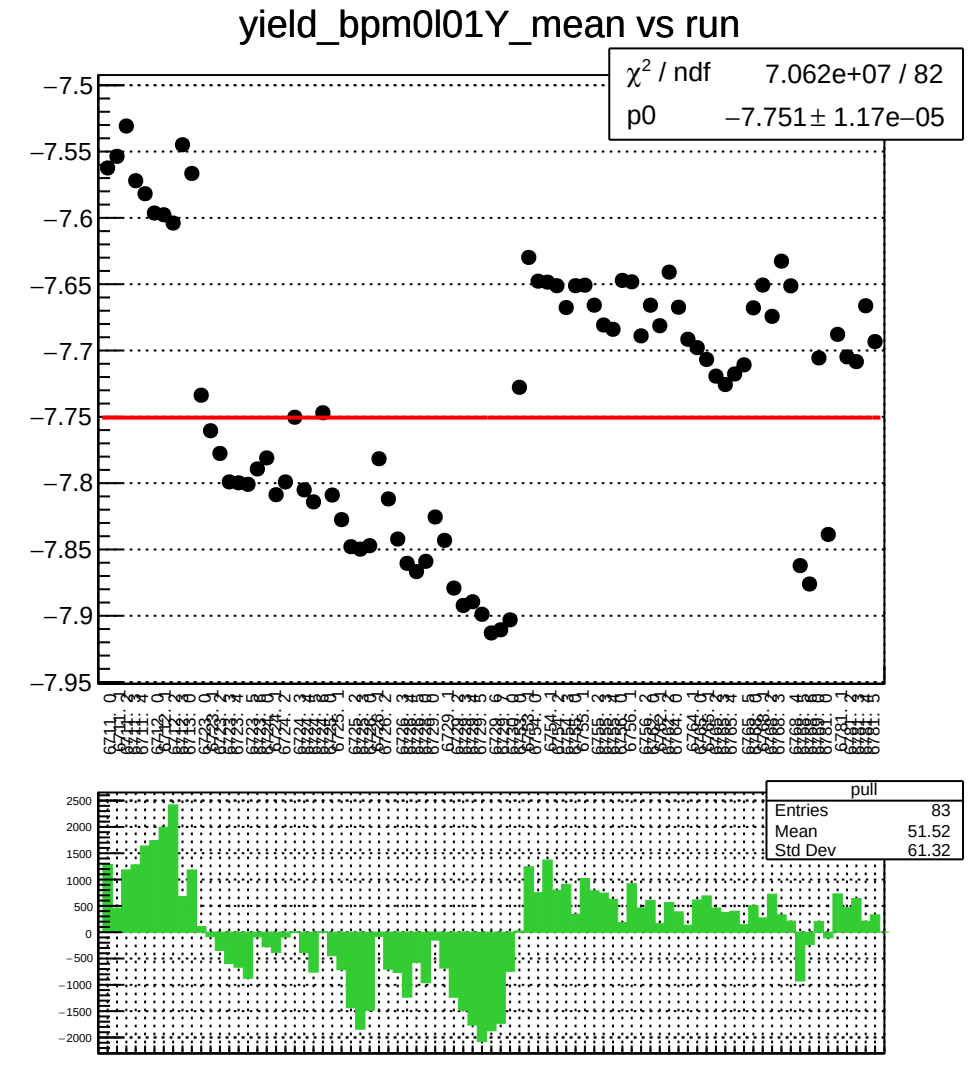

pull1D
Entries 83
Mean −0.2479
Std Dev 5.057
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

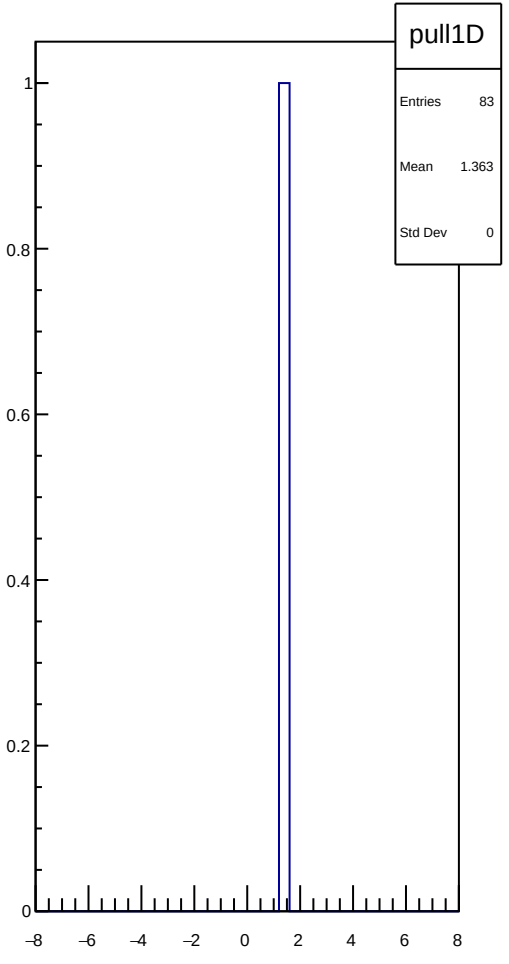

yield_bpm16Y_rms vs run
χ^2 / ndf 1.825e+05 / 82
p0 0.005839 ± 4.847e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

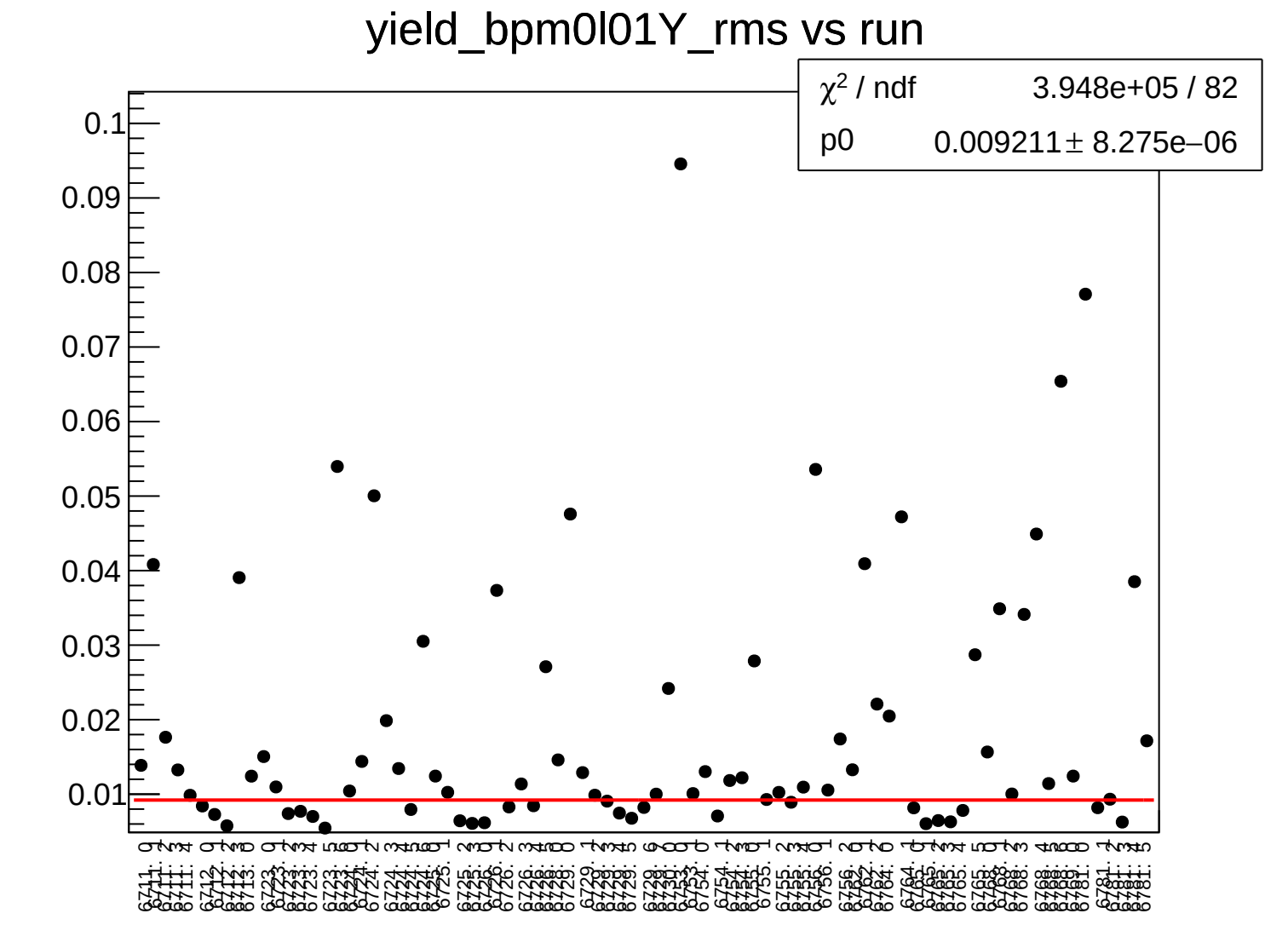

yield_bpm0l01X_mean vs run
χ² / ndf 1.975e+08 / 82
p0 −1.812 ± 8.722e−06
−1.6
−1.7
−1.8
−1.9
−2
−2.1
pull
Entries 83
Mean 104.8
Std Dev 11.03
3000
2000
1000
0
−1000
−2000
−3000
−4000

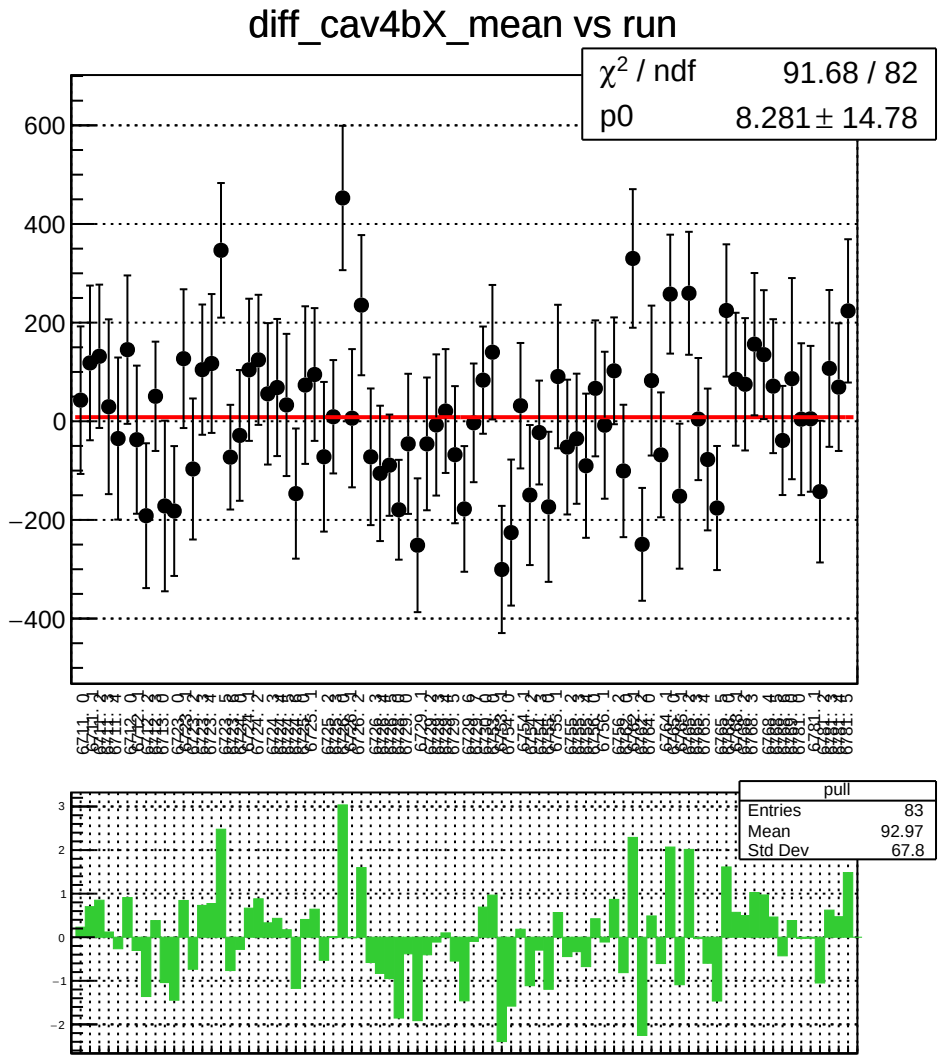

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

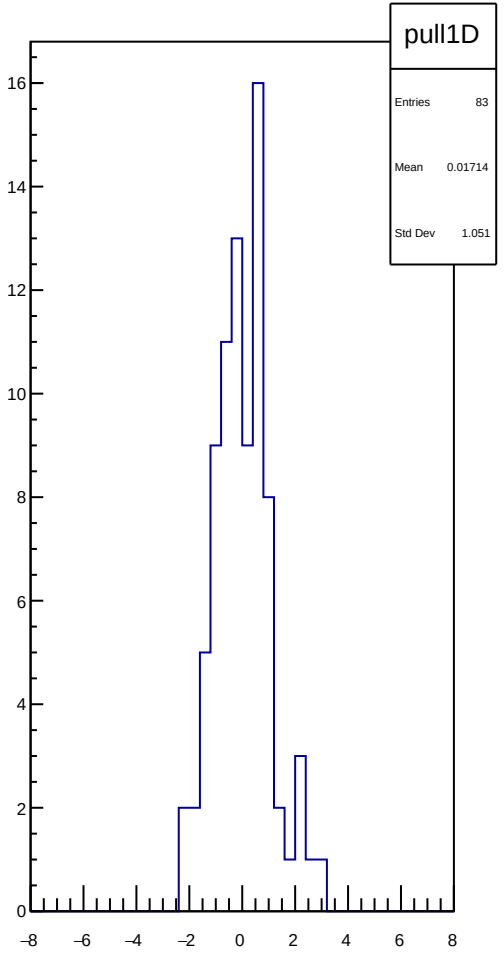

yield_bpm0l01X_rms vs run
χ^2 / ndf 2.585e+05 / 82
p0 0.007233 ± 6.167e−06
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

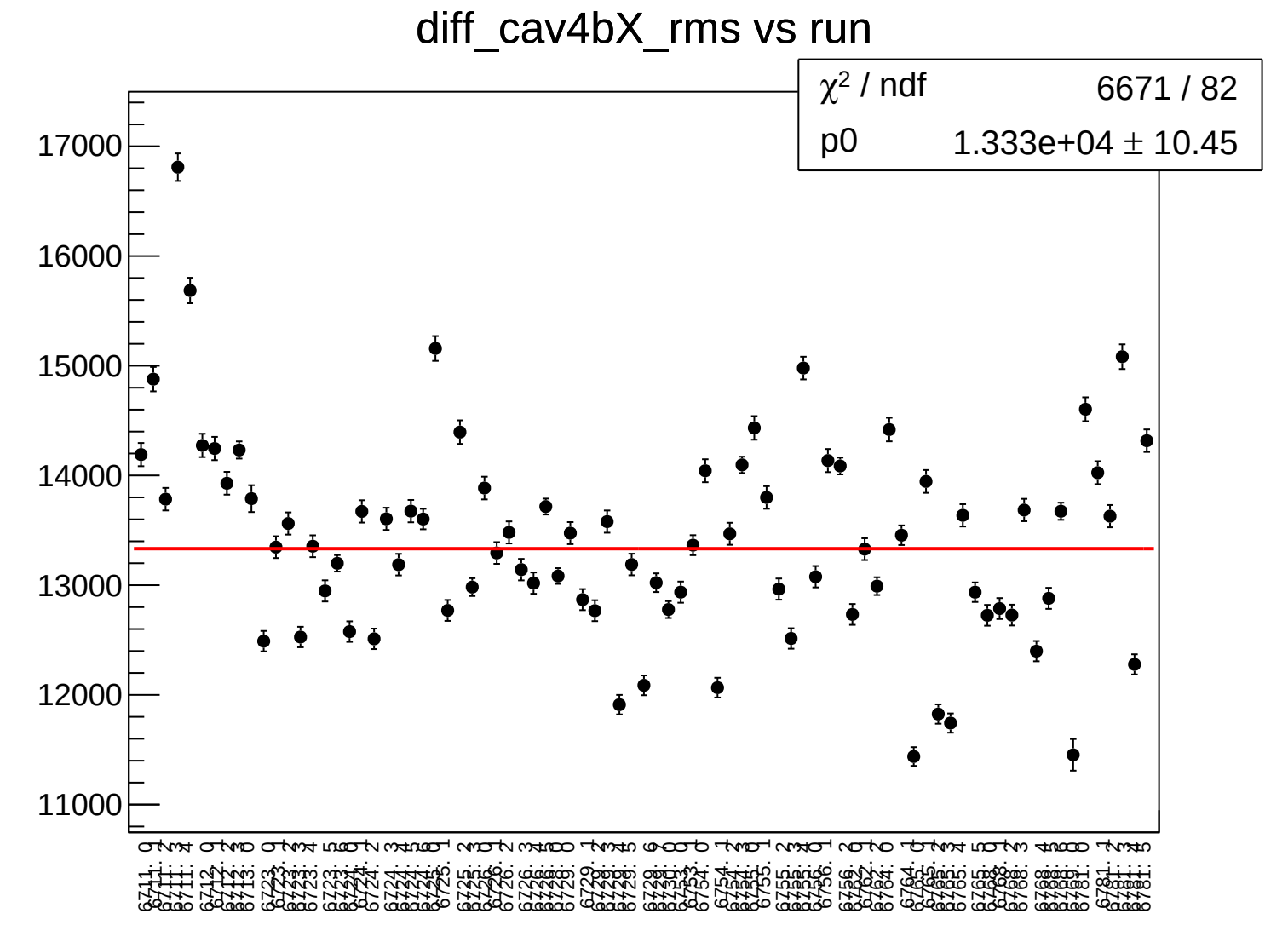

yield_bpm0l01Y_mean vs run
χ² / ndf 7.062e+07 / 82
p0 −7.751 ± 1.17e−05
pull
Entries 83
Mean 51.52
Std Dev 61.32

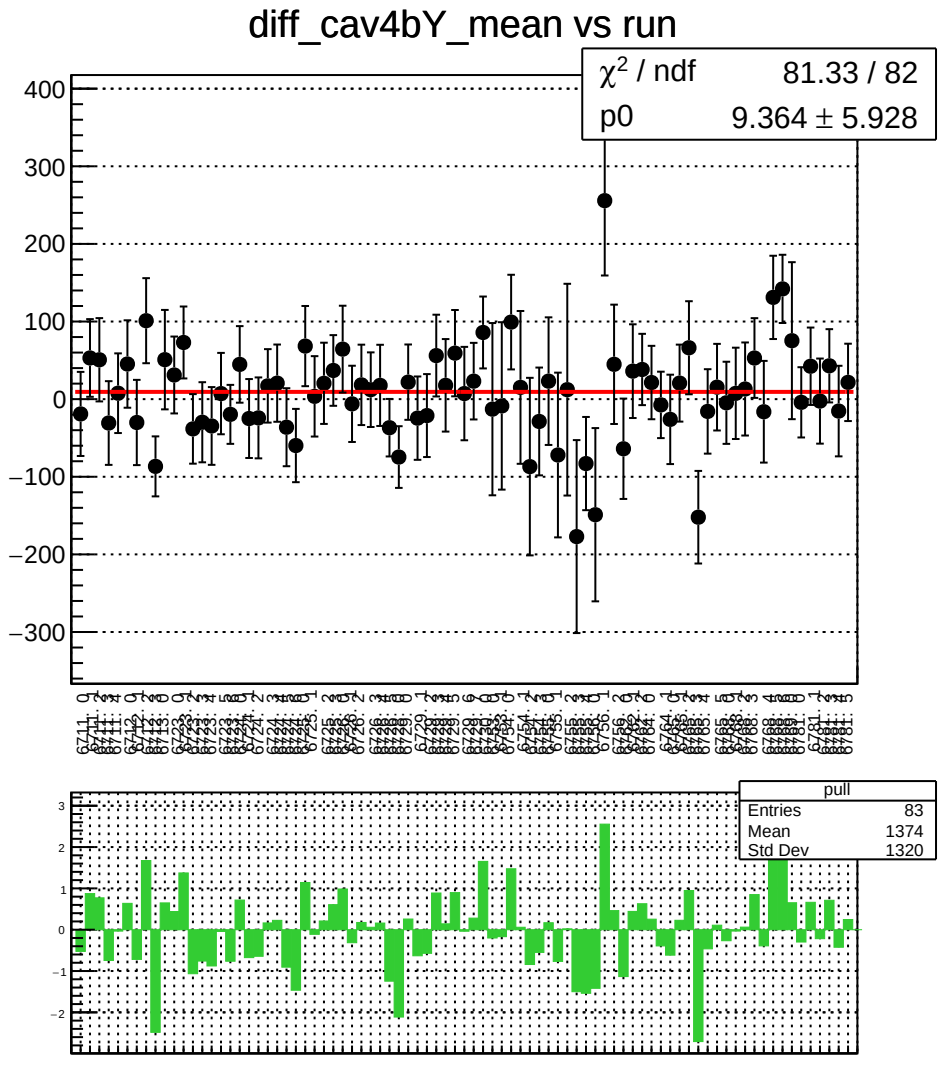

pull1D
Entries 83
Mean 1.363
Std Dev 0

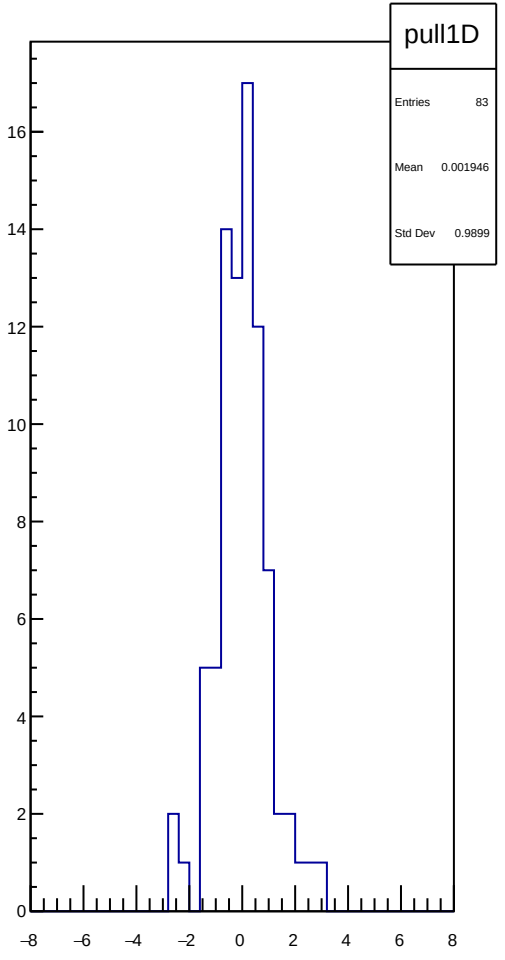

yield_bpm0l01Y_rms vs run
χ² / ndf 3.948e+05 / 82
p0 0.009211 ± 8.275e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

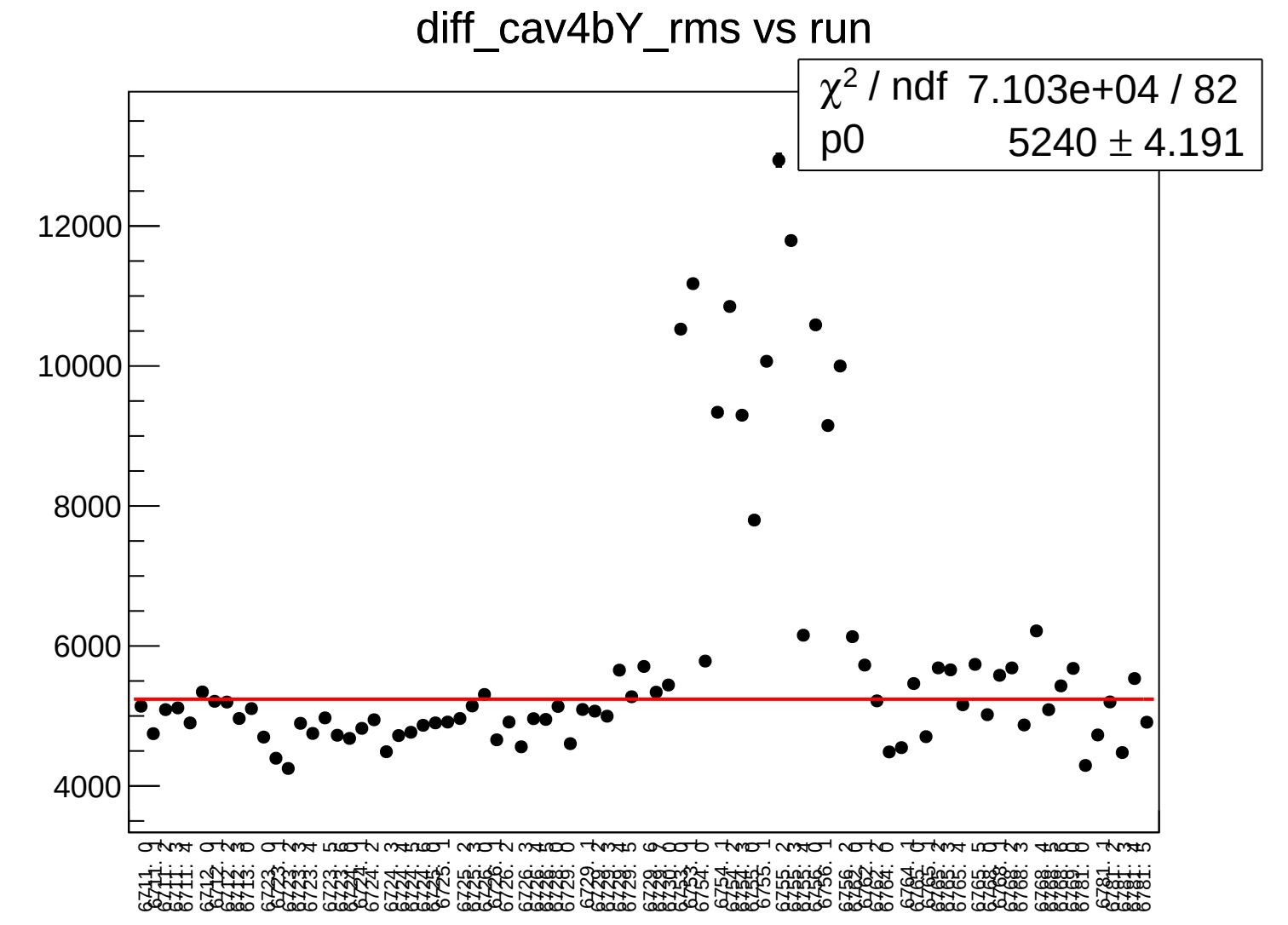

diff_cav4bX_mean vs run
χ^2 / ndf 91.68 / 82
p0 8.281 ± 14.78
pull
Entries 83
Mean 92.97
Std Dev 67.8

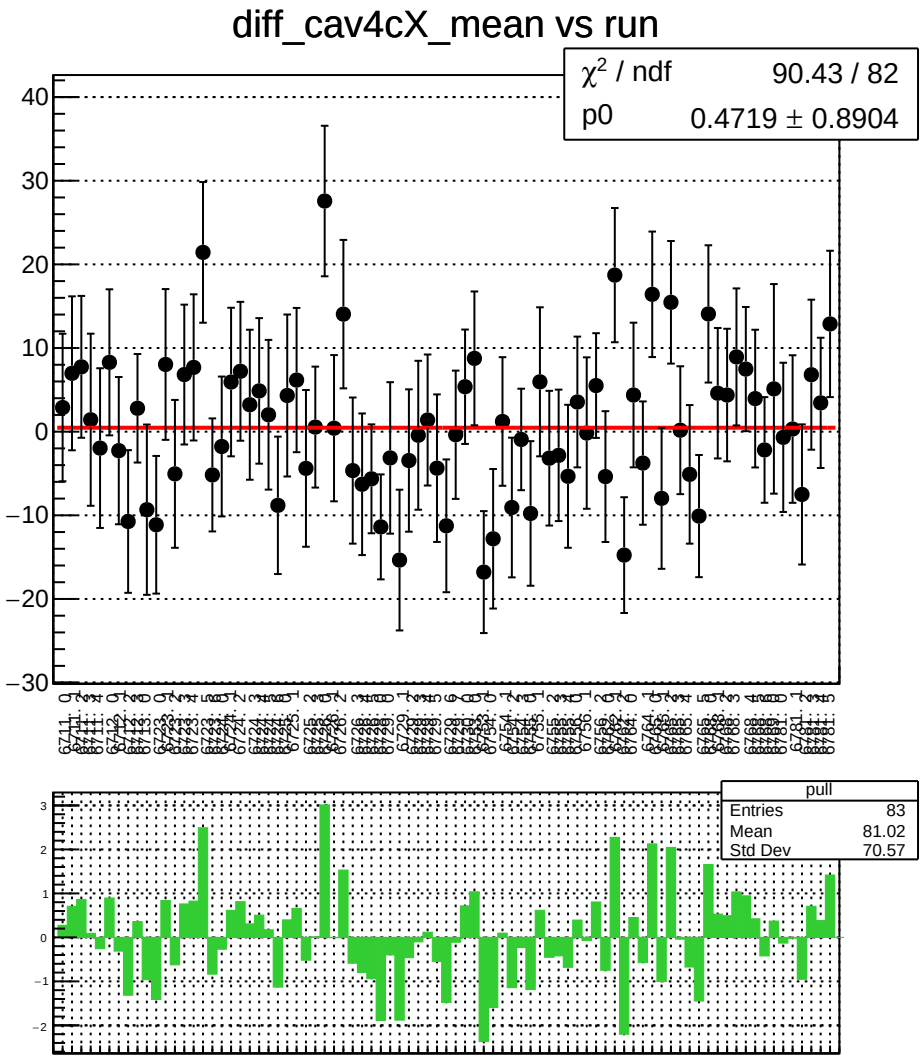

pull1D
Entries 83
Mean 0.01714
Std Dev 1.051

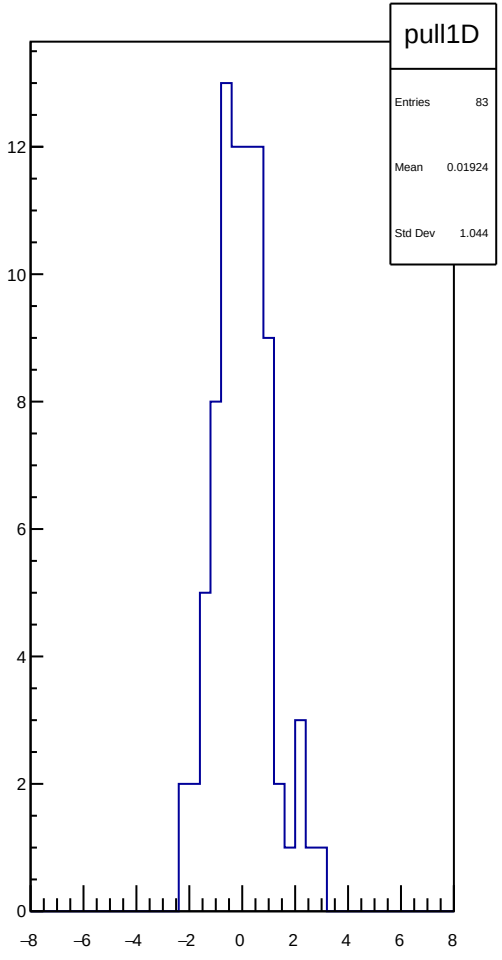

diff_cav4bX_rms vs run
χ² / ndf 6671 / 82
p0 1.333e+04 ± 10.45
17000
16000
15000
14000
13000
12000
11000

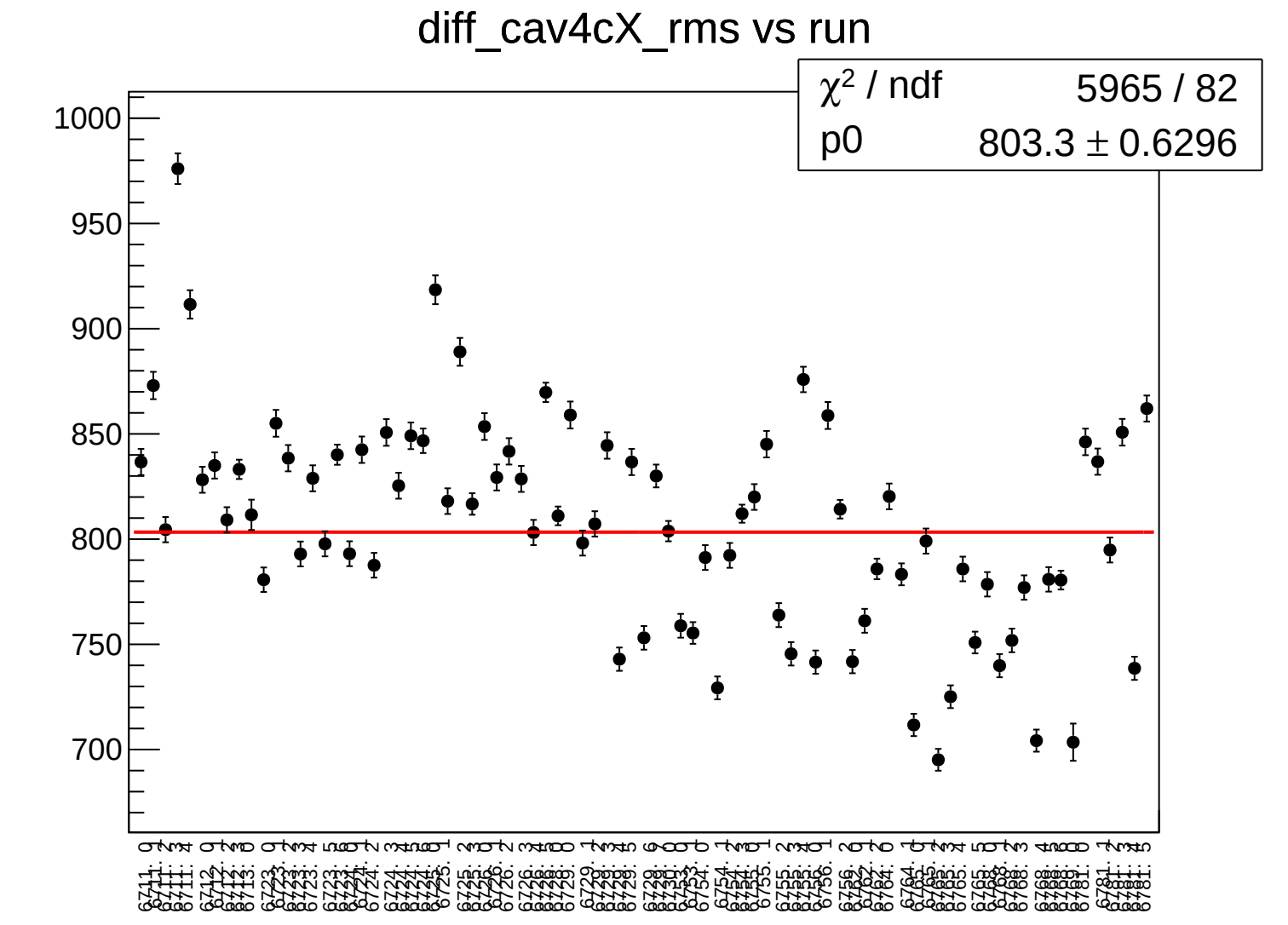

diff_cav4bY_mean vs run
χ² / ndf 81.33 / 82
p0 9.364 ± 5.928
pull
Entries 83
Mean 1374
Std Dev 1320

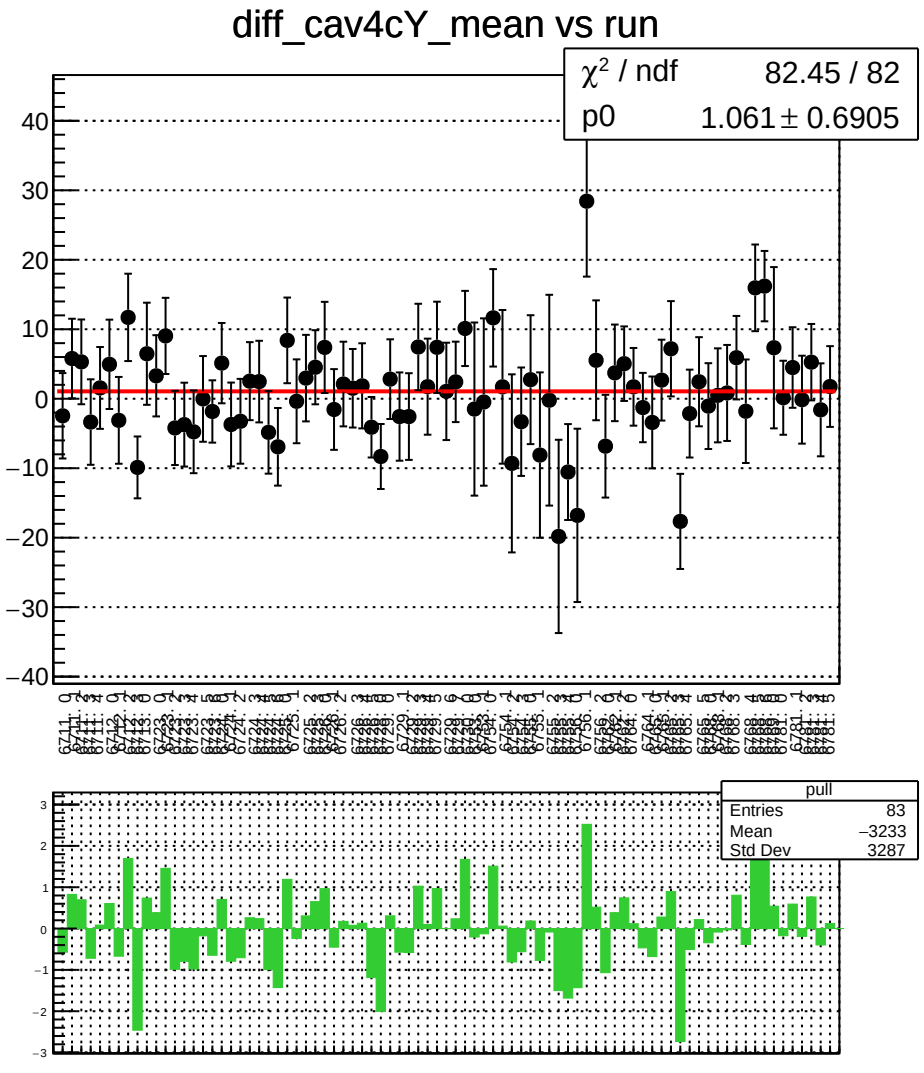

pull1D
Entries 83
Mean 0.001946
Std Dev 0.9899

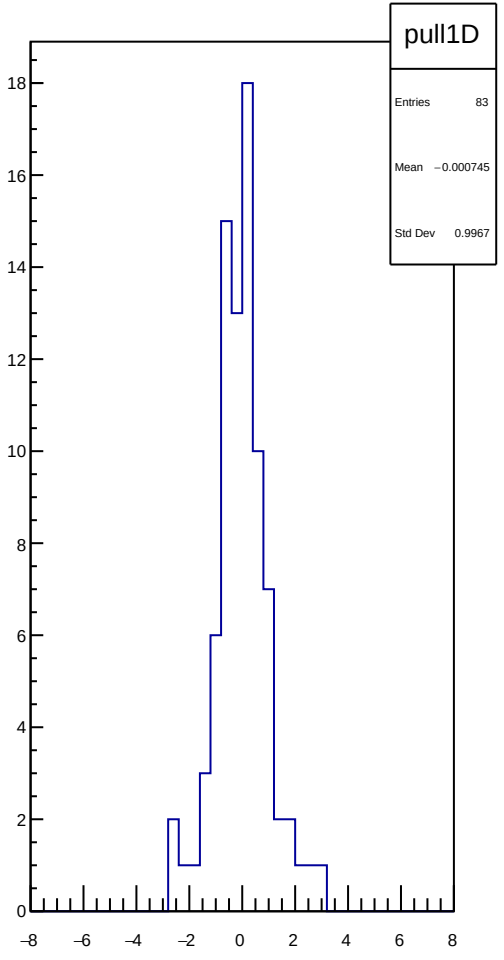

diff_cav4bY_rms vs run
χ² / ndf 7.103e+04 / 82
p0 5240 ± 4.191
12000
10000
8000
6000
4000

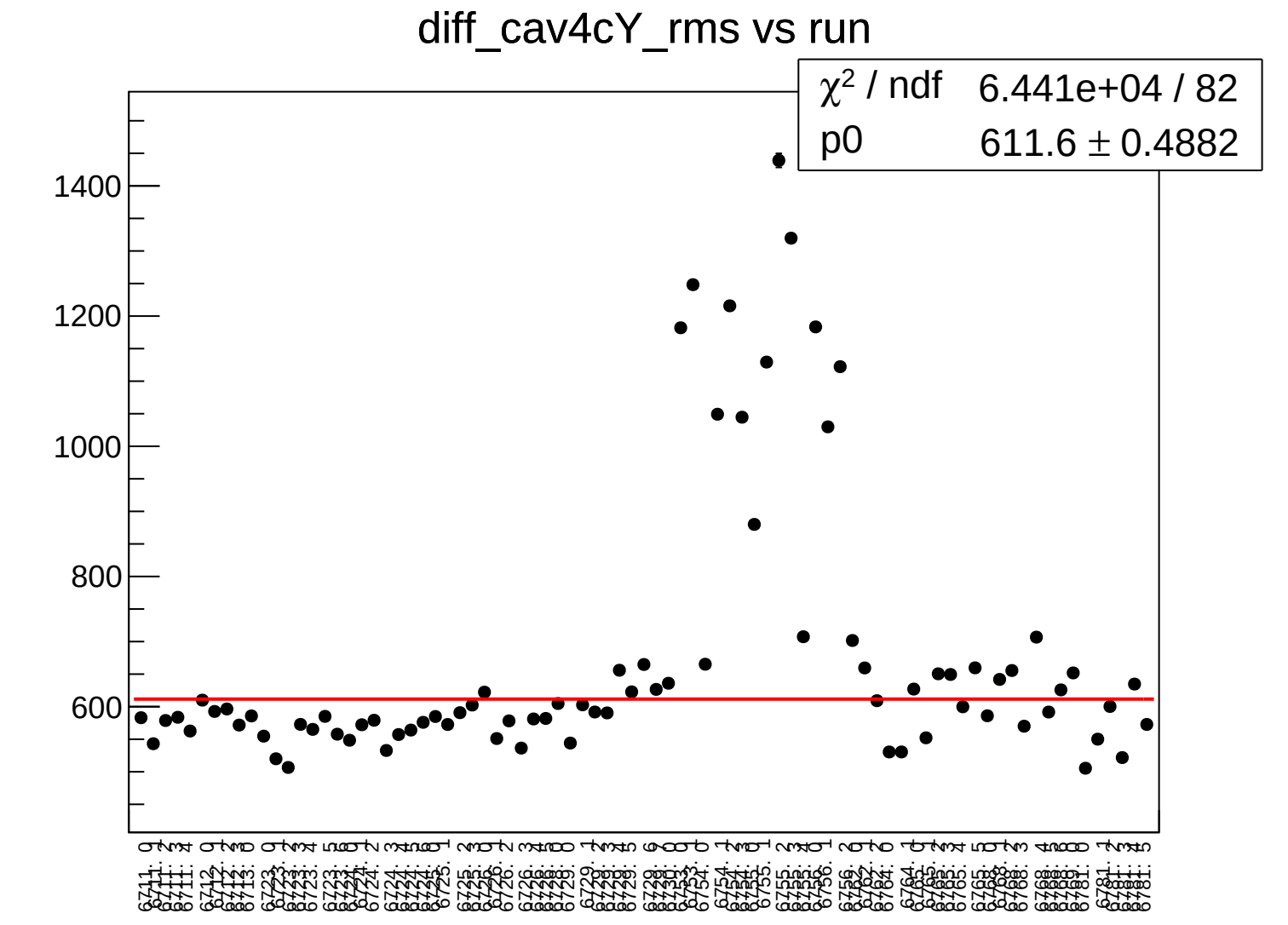

diff_cav4cX_mean vs run
χ² / ndf 90.43 / 82
p0 0.4719 ± 0.8904
pull
Entries 83
Mean 81.02
Std Dev 70.57

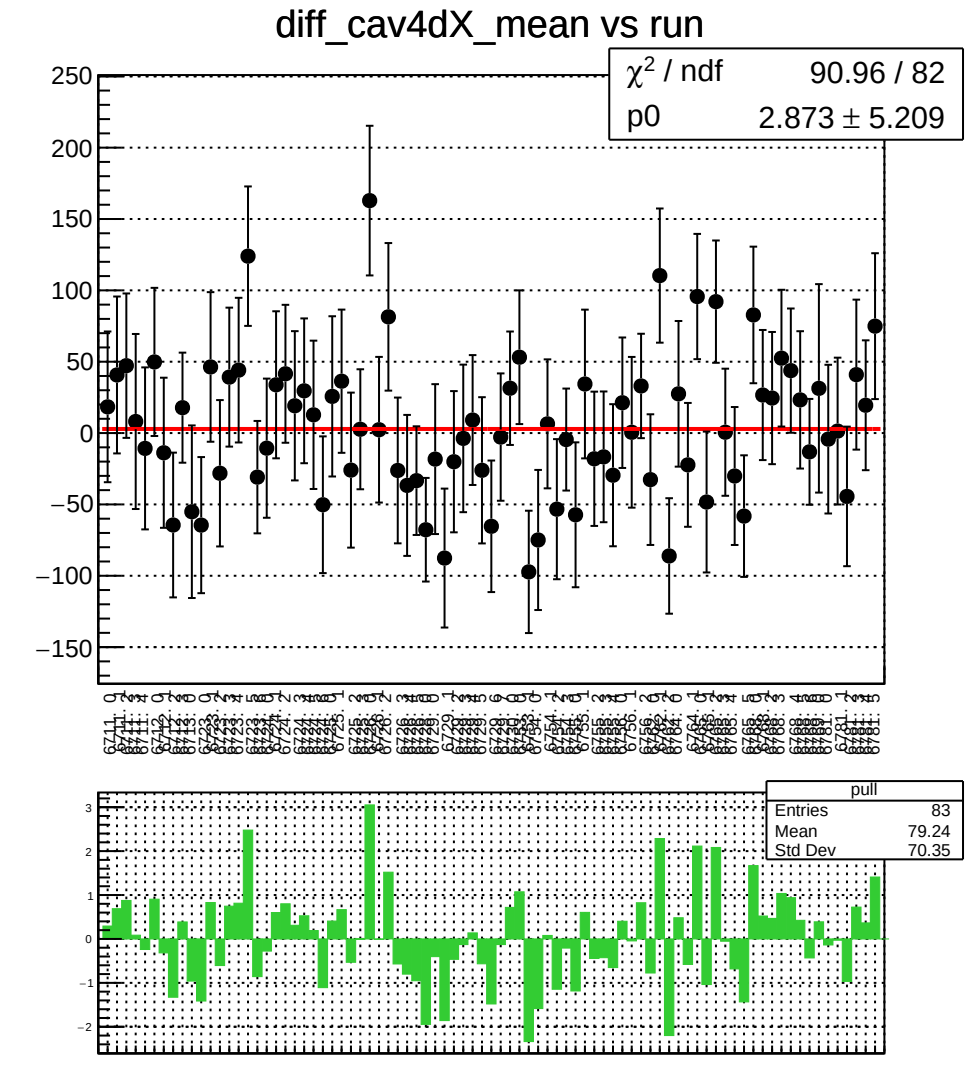

pull1D
Entries 83
Mean 0.01924
Std Dev 1.044

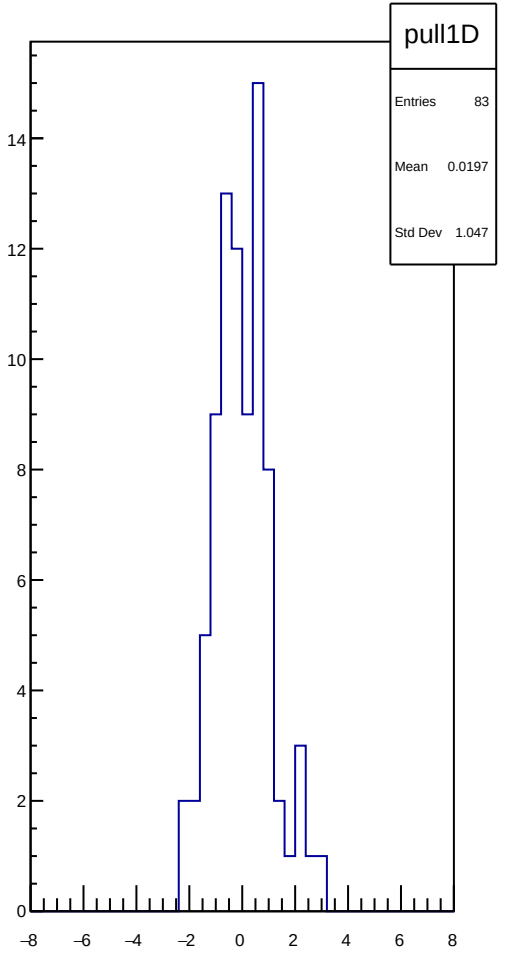

diff_cav4cX_rms vs run
χ² / ndf 5965 / 82
p0 803.3 ± 0.6296
1000
950
900
850
800
750
700

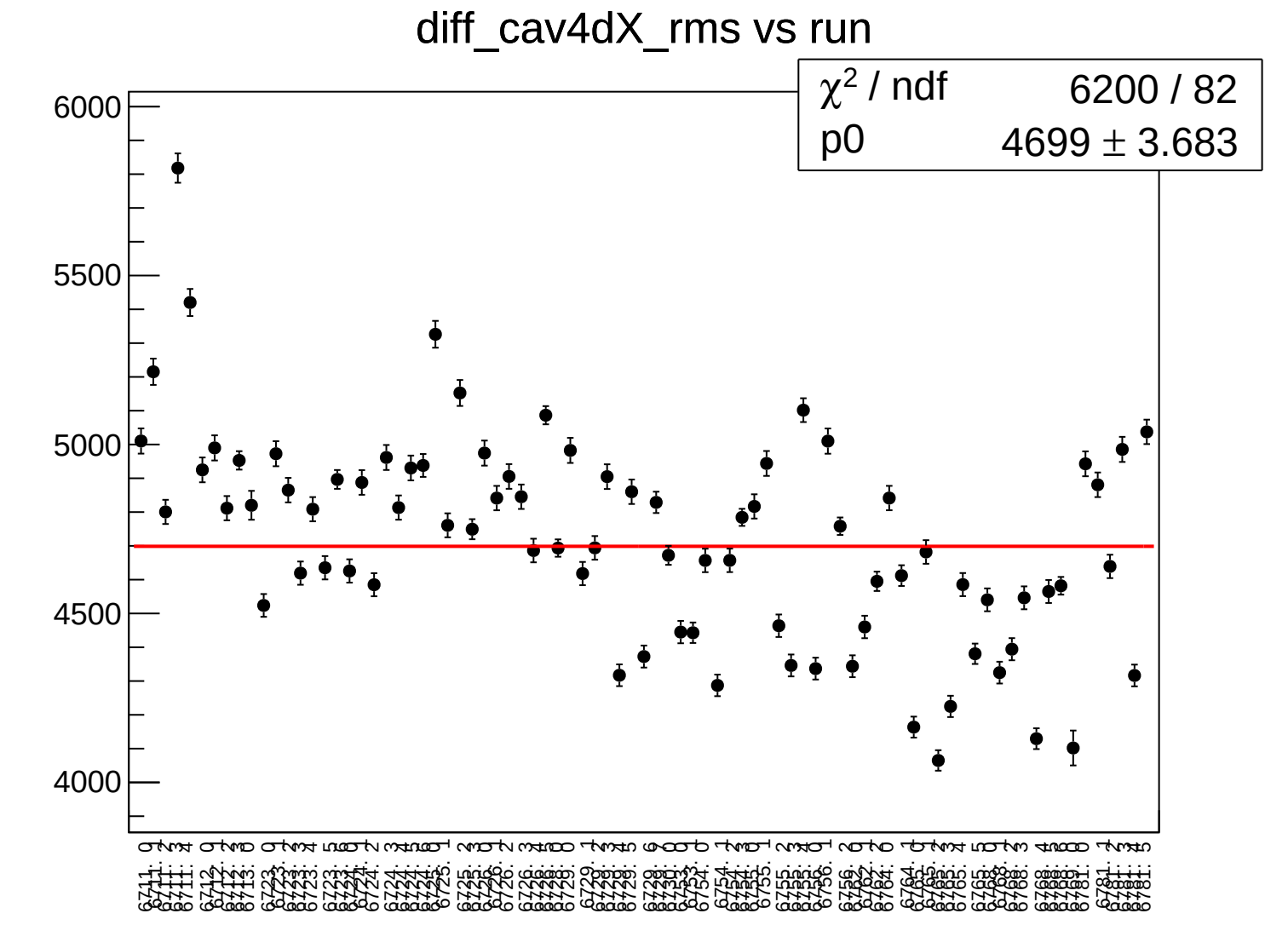

diff_cav4cY_mean vs run
χ² / ndf 82.45 / 82
p0 1.061 ± 0.6905
pull
Entries 83
Mean −3233
Std Dev 3287

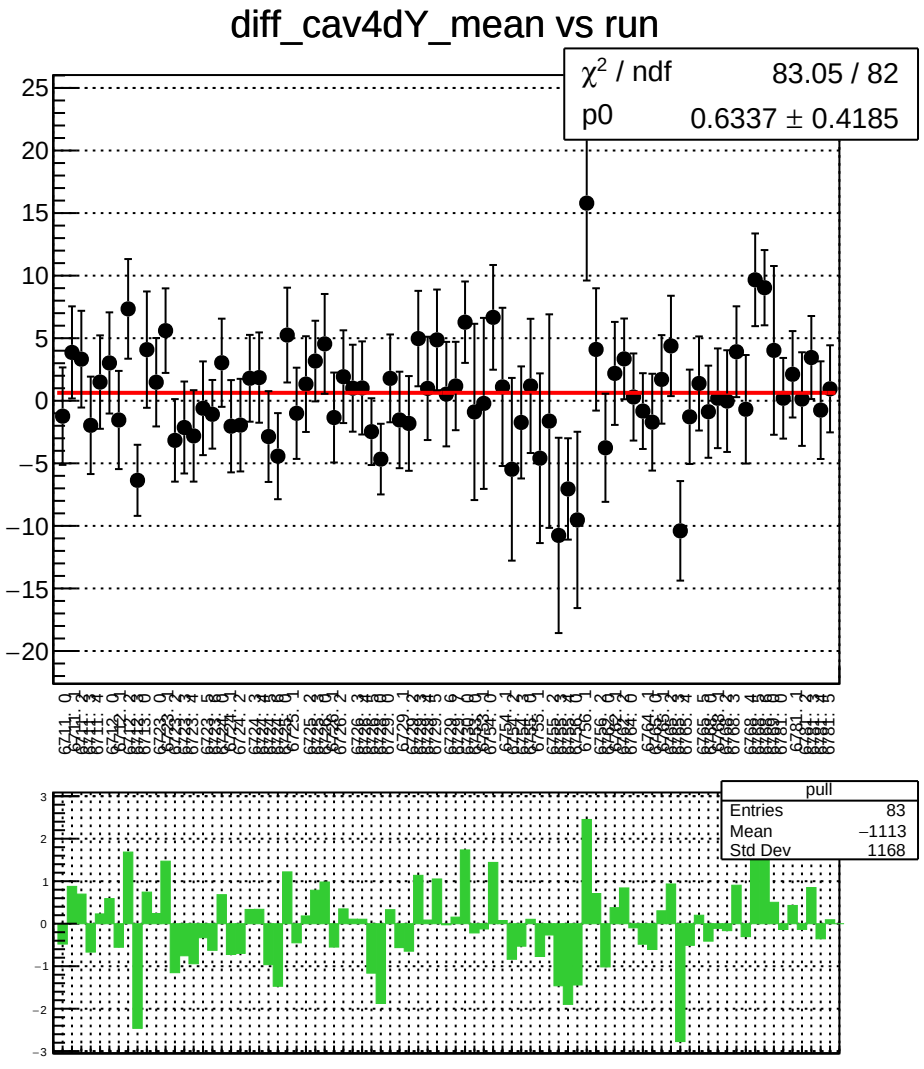

pull1D
Entries 83
Mean −0.000745
Std Dev 0.9967

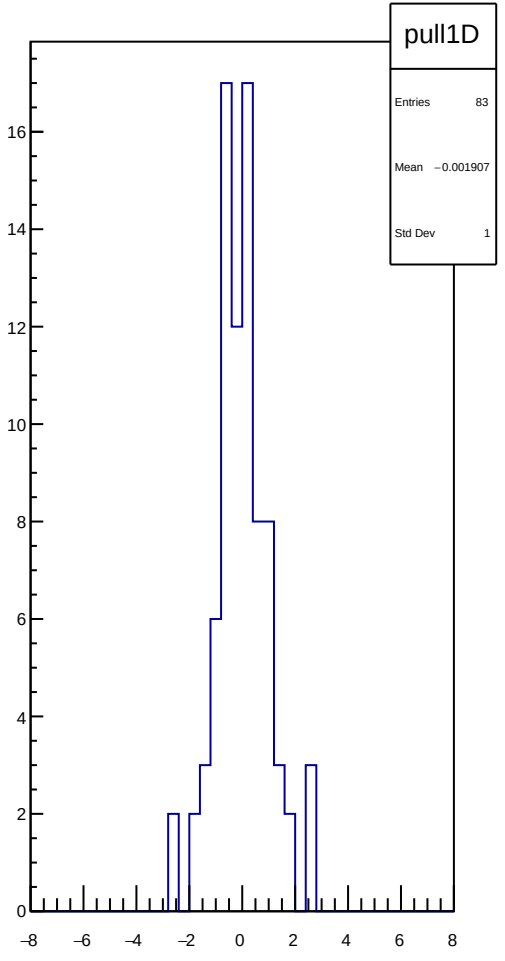

diff_cav4cY_rms vs run
χ² / ndf 6.441e+04 / 82
p0 611.6 ± 0.4882
1400
1200
1000
800
600

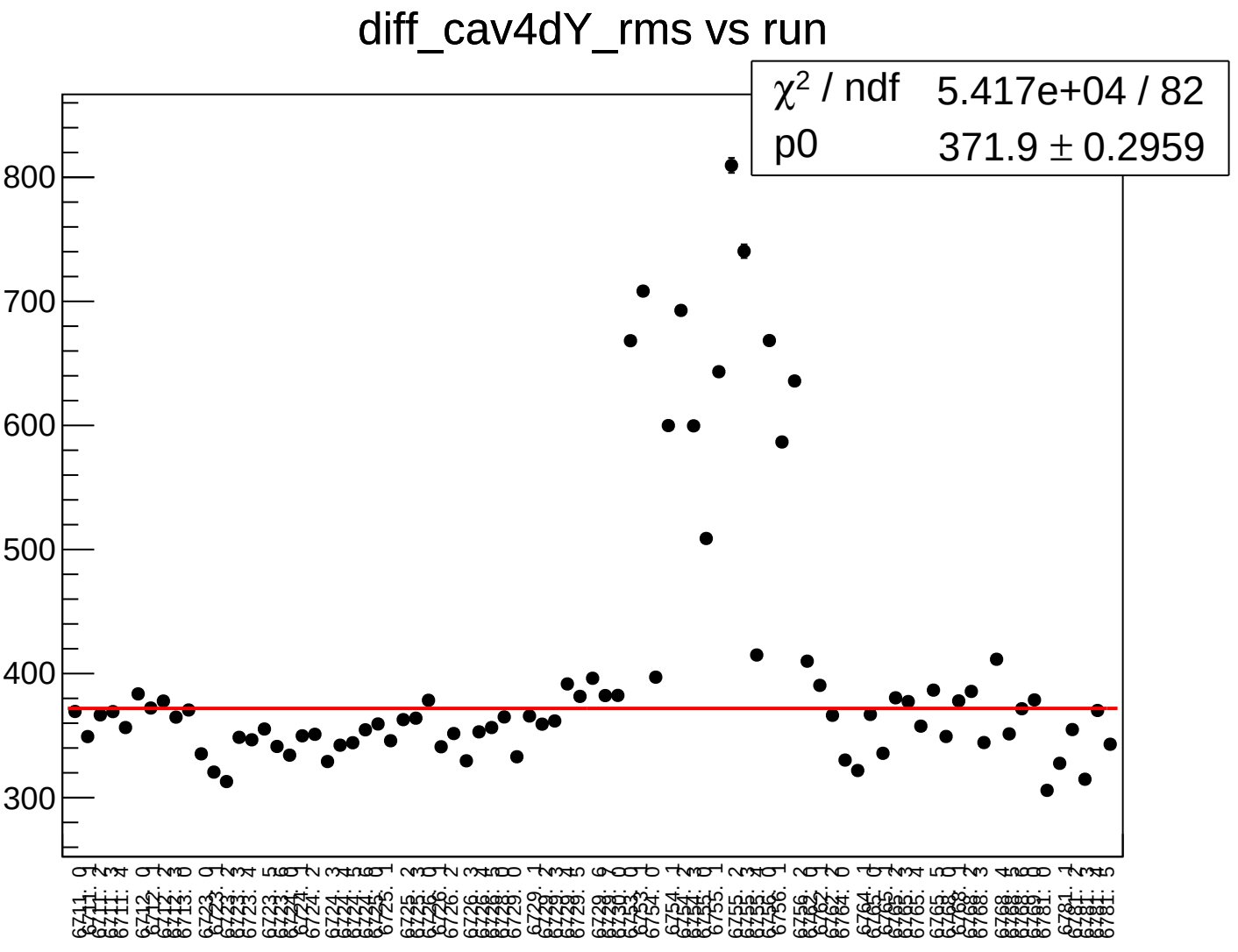

diff_cav4dX_mean vs run
χ² / ndf 90.96 / 82
p0 2.873 ± 5.209
pull
Entries 83
Mean 79.24
Std Dev 70.35

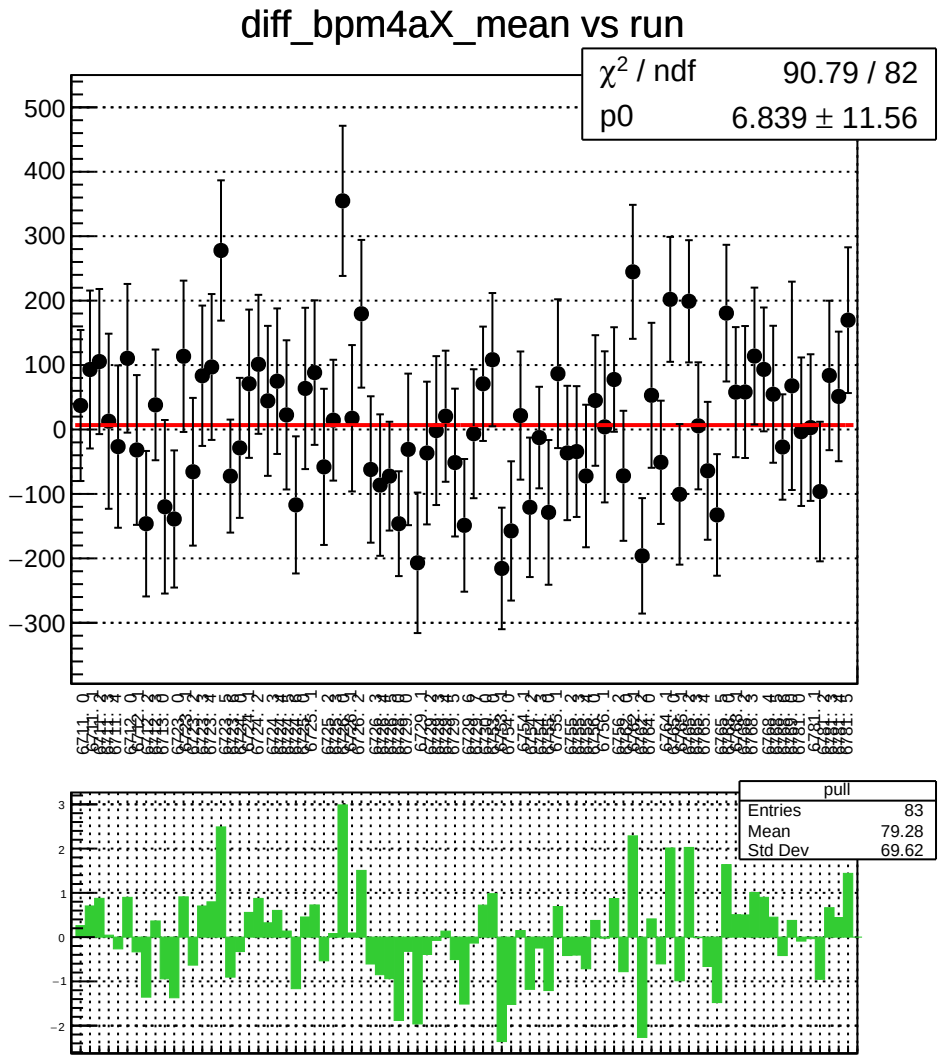

pull1D
Entries 83
Mean 0.0197
Std Dev 1.047

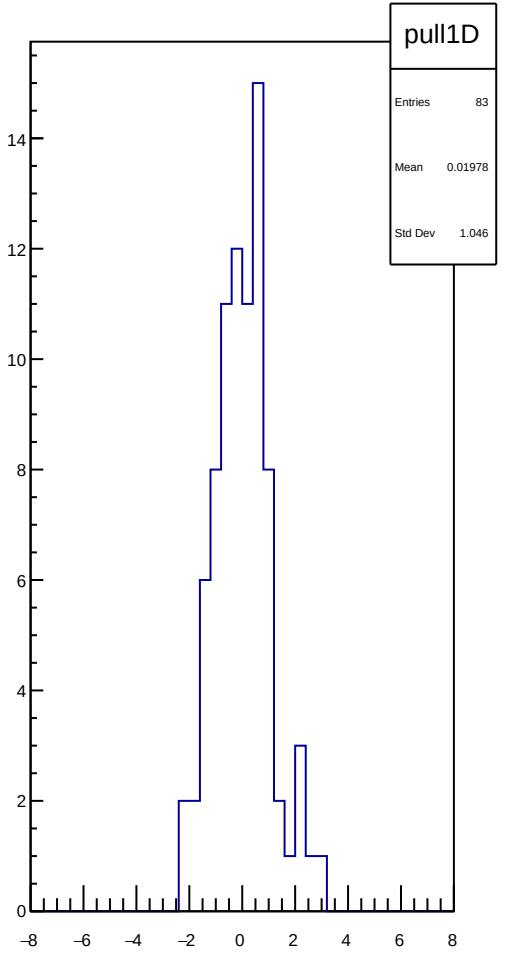

diff_cav4dX_rms vs run
χ² / ndf 6200 / 82
p0 4699 ± 3.683
6000
5500
5000
4500
4000


diff_cav4dY_mean vs run
χ² / ndf 83.05 / 82
p0 0.6337 ± 0.4185
pull
Entries 83
Mean −1113
Std Dev 1168

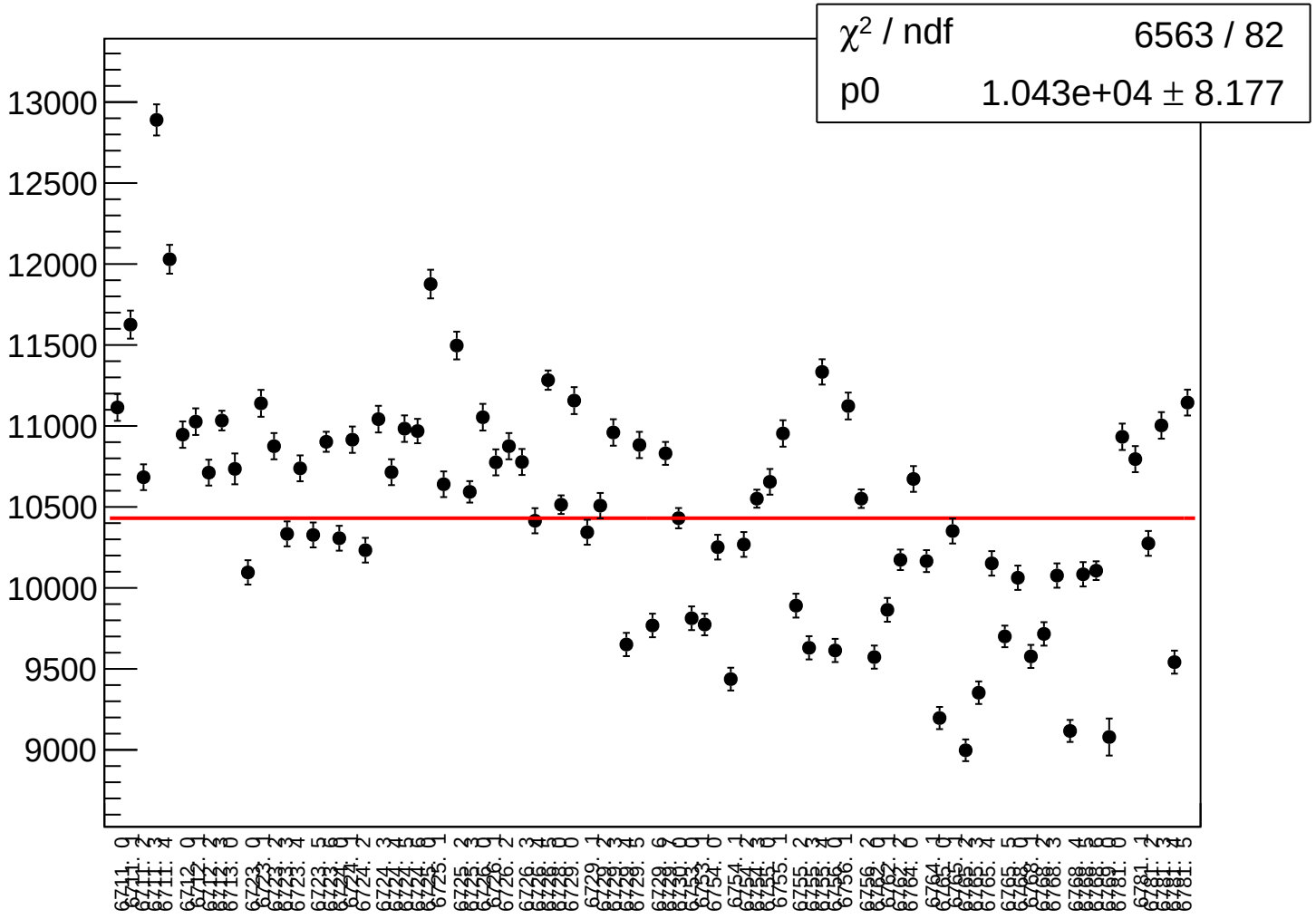

pull1D
Entries 83
Mean −0.001907
Std Dev 1

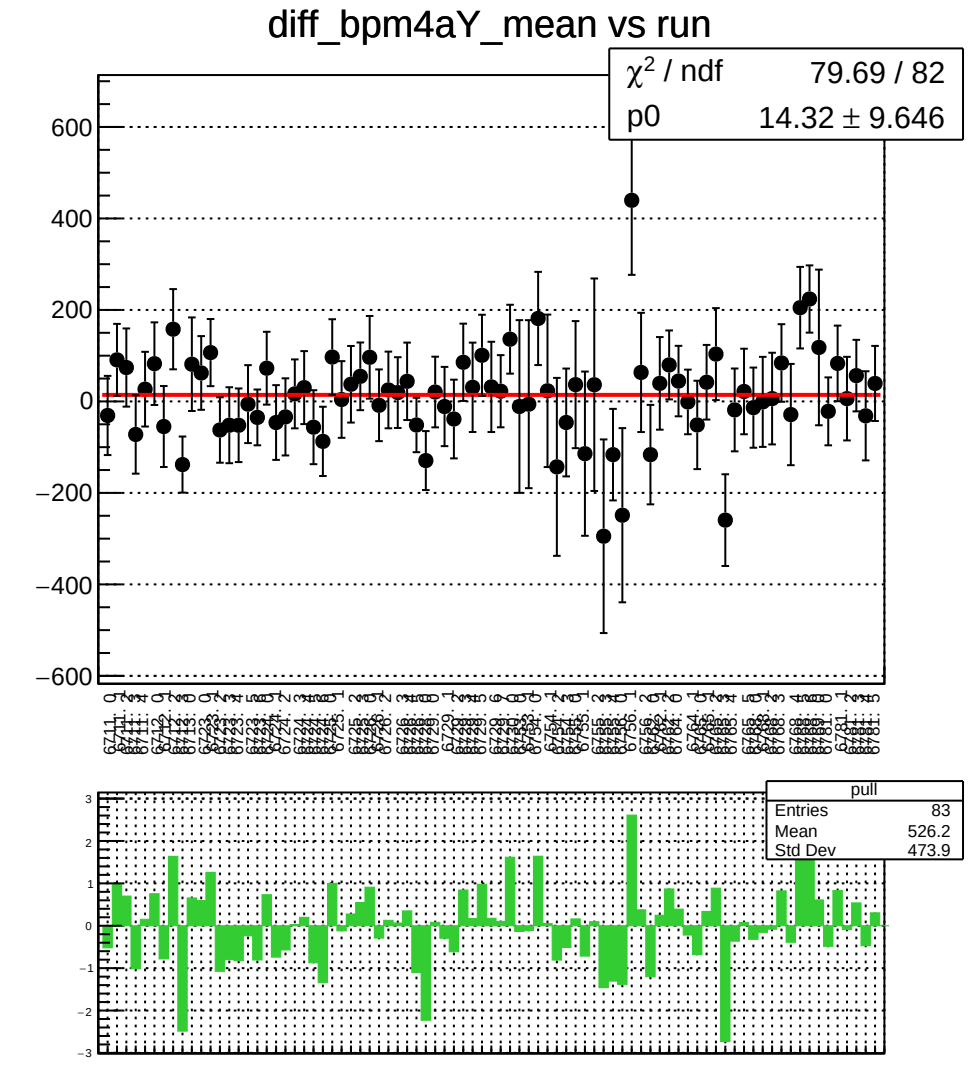

diff_cav4dY_rms vs run
χ² / ndf 5.417e+04 / 82
p0 371.9 ± 0.2959
800
700
600
500
400
300

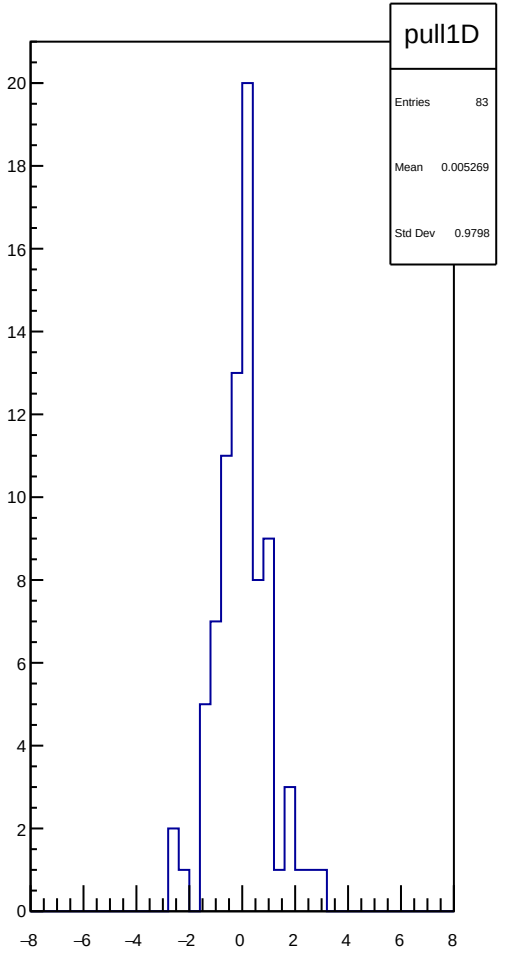

diff_bpm4aX_mean vs run
χ² / ndf 90.79 / 82
p0 6.839 ± 11.56
pull
Entries 83
Mean 79.28
Std Dev 69.62

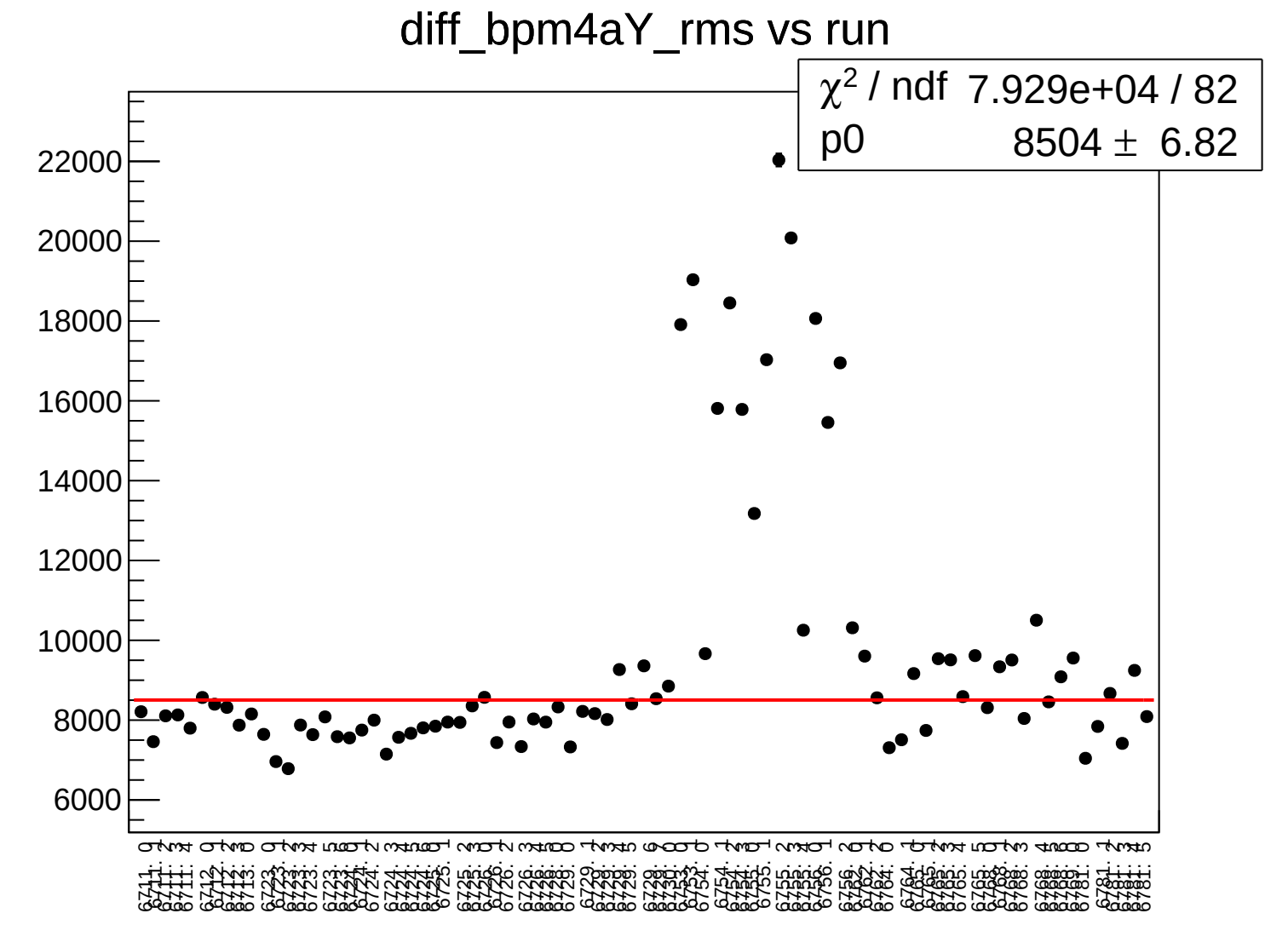

pull1D
Entries 83
Mean 0.01978
Std Dev 1.046

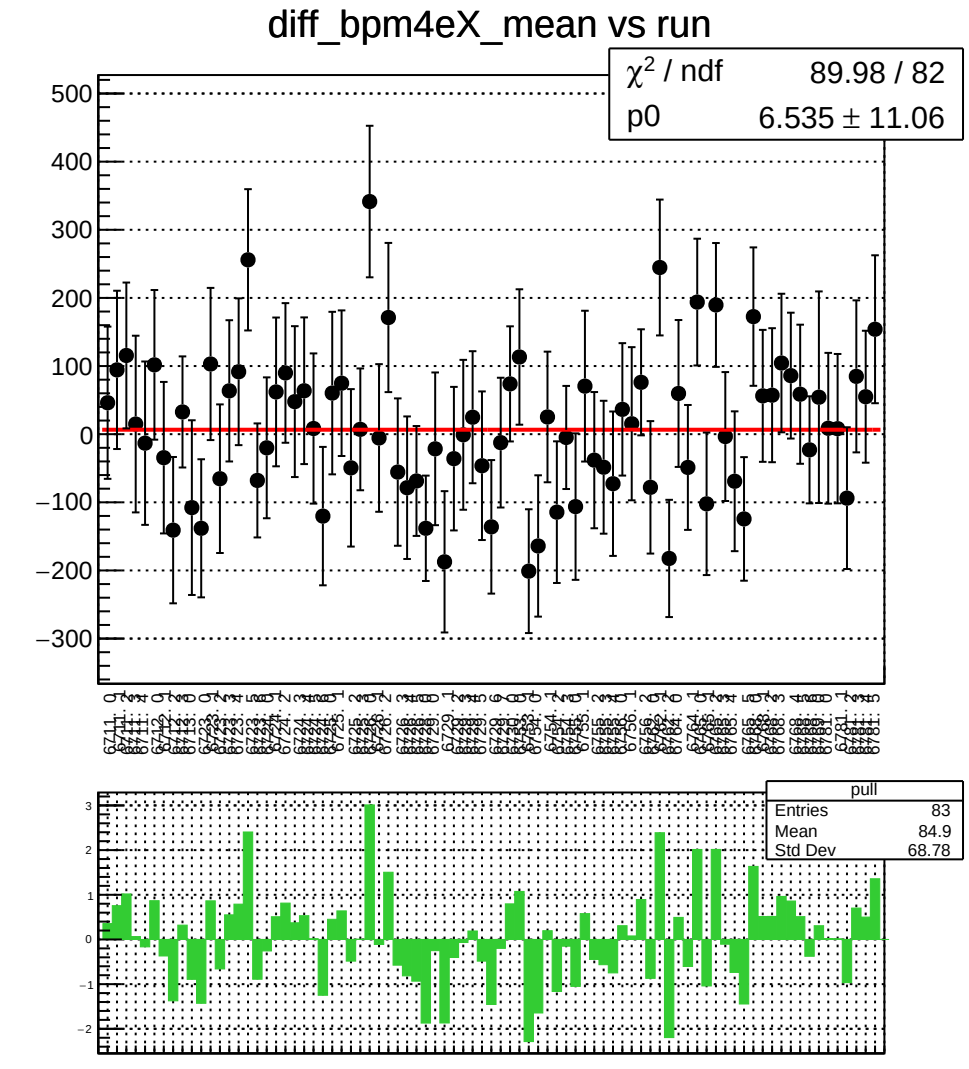
diff_bpm4aX_rms vs run

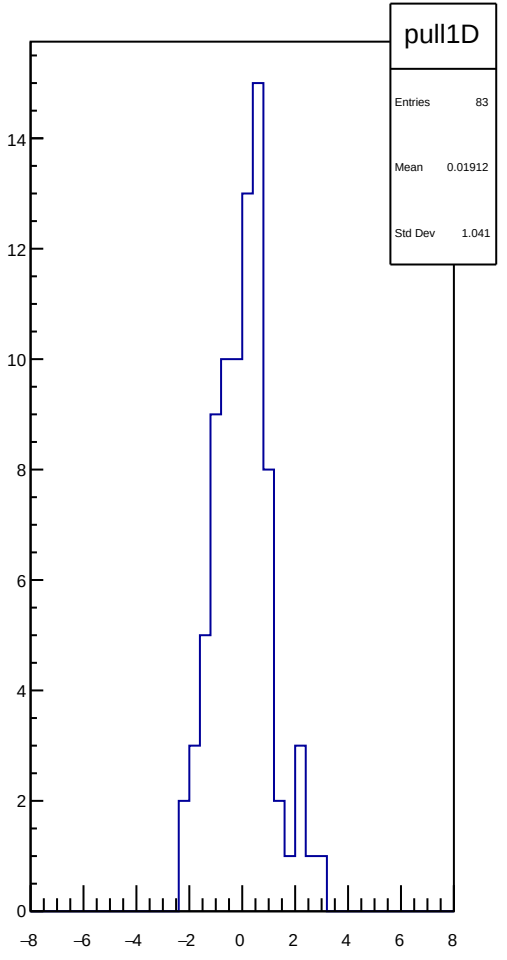


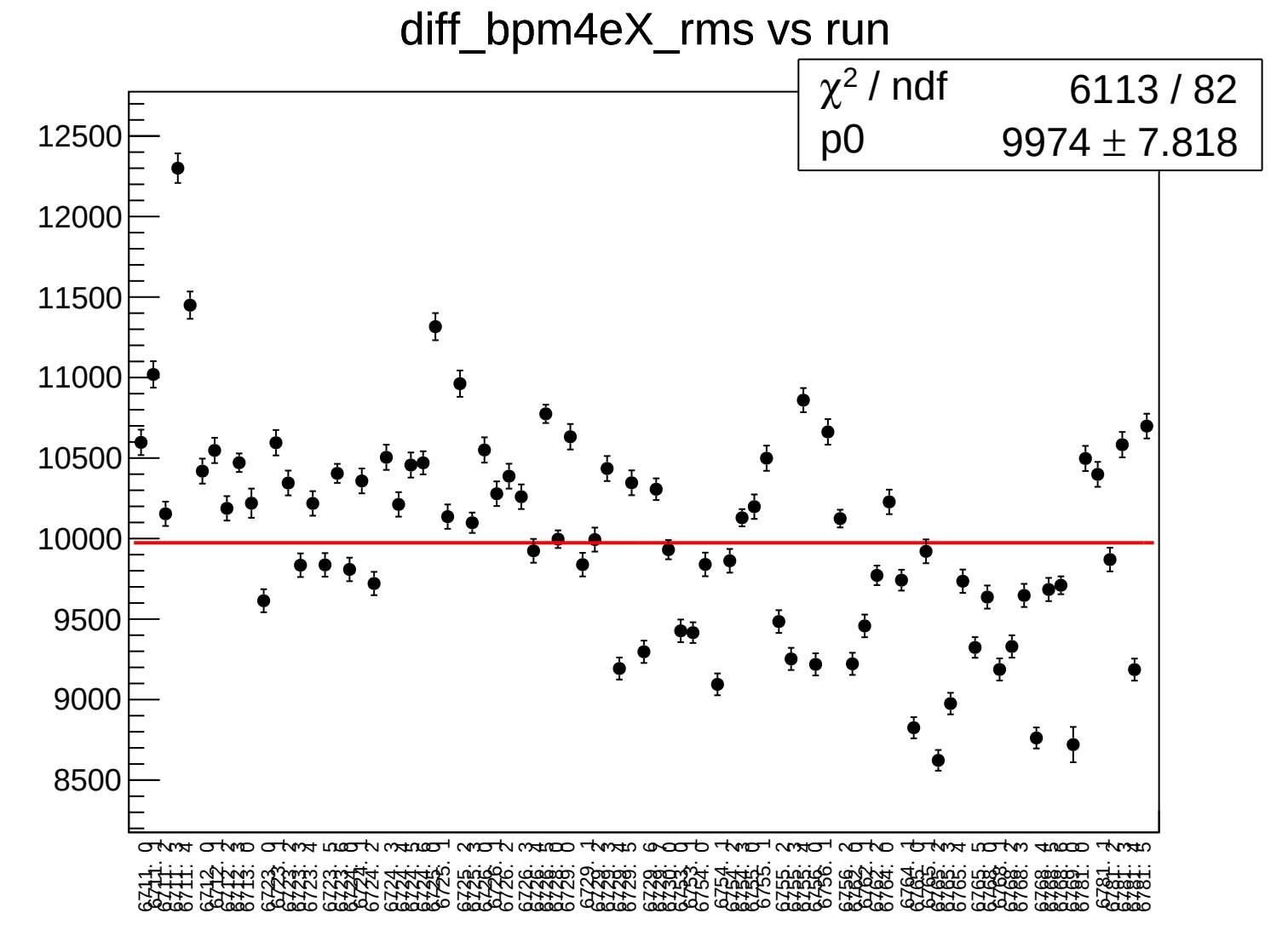

diff_bpm4aY_mean vs run
χ^2 / ndf 79.69 / 82
p0 14.32 ± 9.646
pull
Entries 83
Mean 526.2
Std Dev 473.9

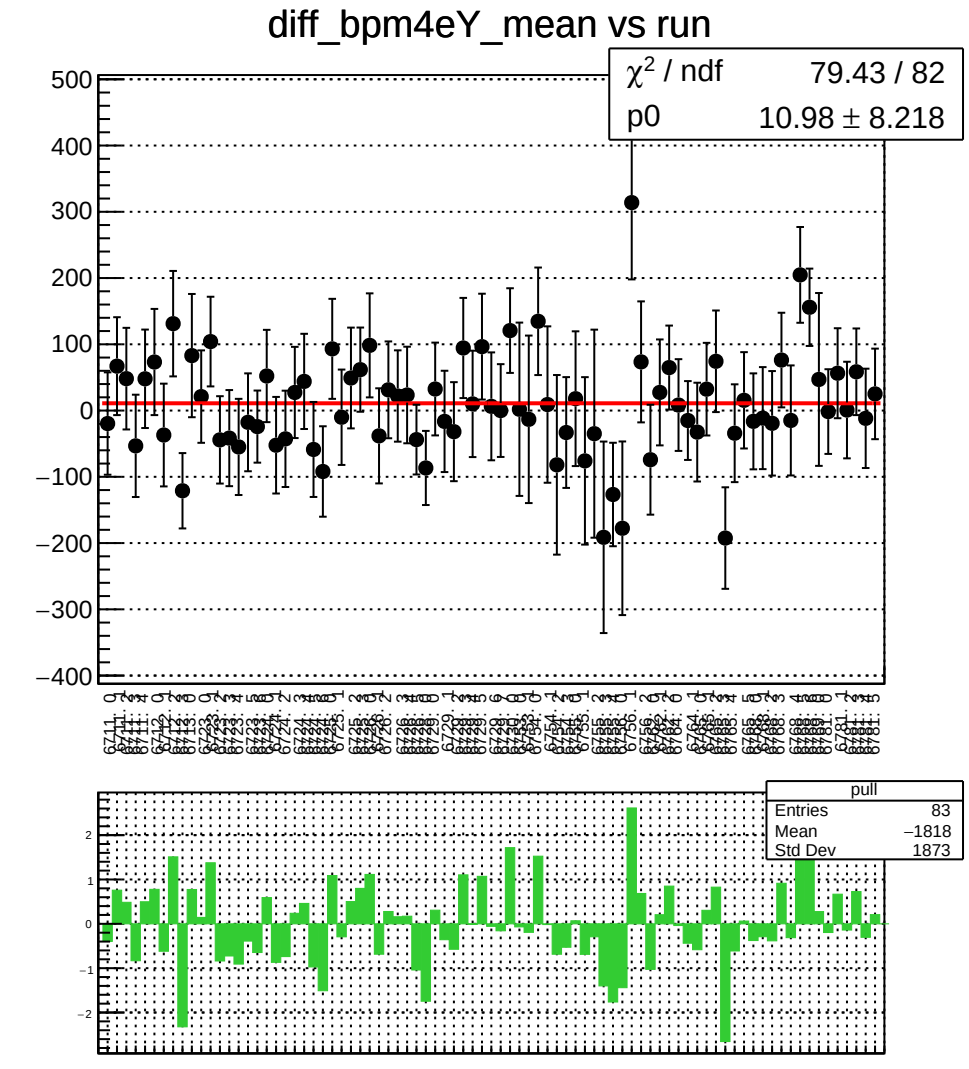

pull1D
Entries 83
Mean 0.005269
Std Dev 0.9798

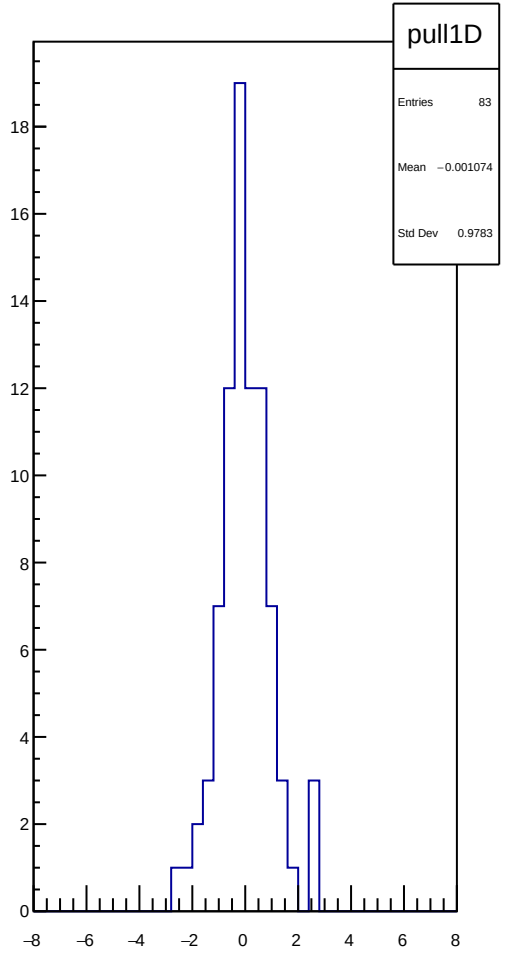

diff_bpm4aY_rms vs run
χ² / ndf 7.929e+04 / 82
p0 8504 ± 6.82
22000
20000
18000
16000
14000
12000
10000
8000
6000

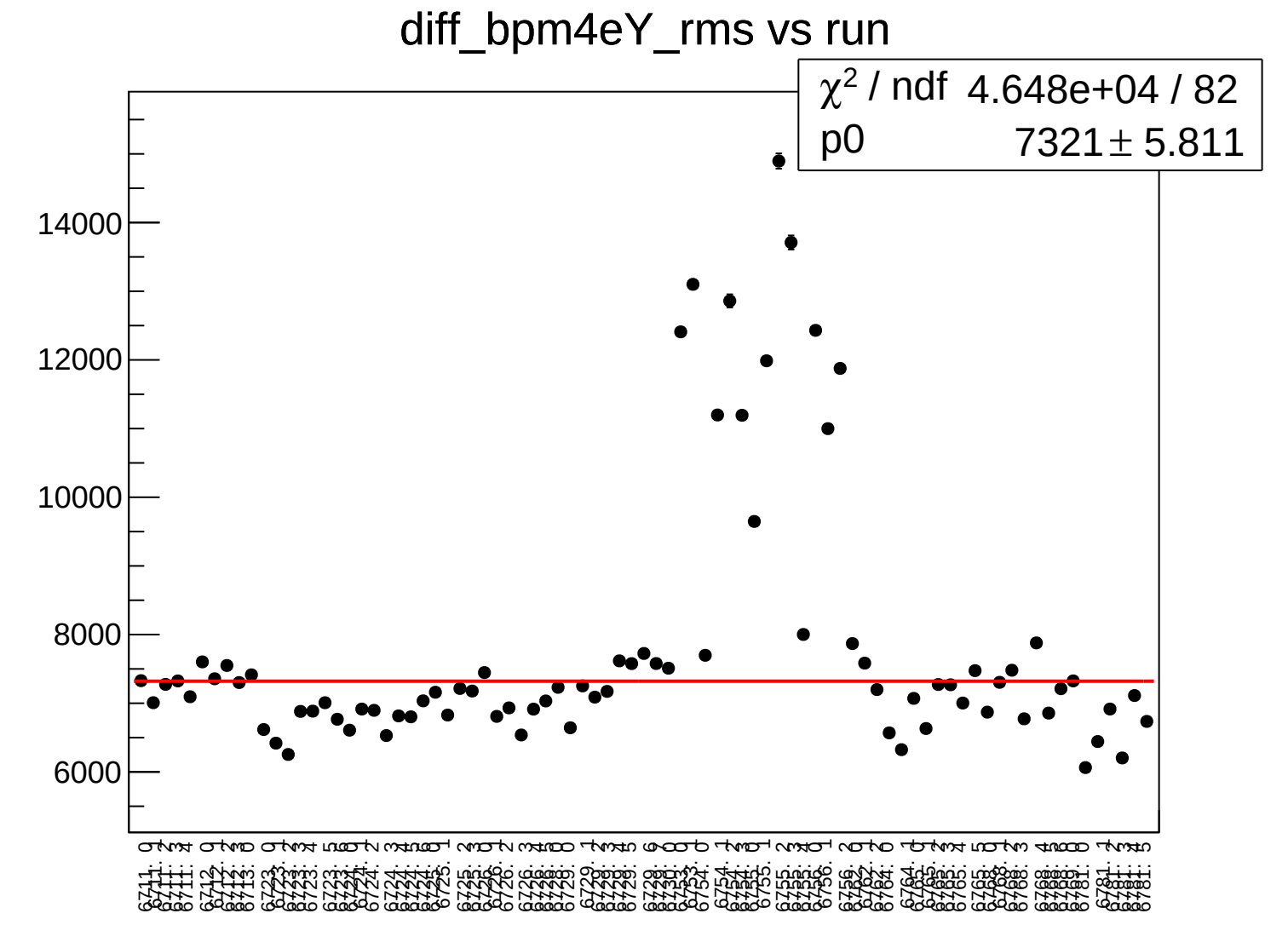

diff_bpm4eX_mean vs run
χ² / ndf 89.98 / 82
p0 6.535 ± 11.06
pull
Entries 83
Mean 84.9
Std Dev 68.78

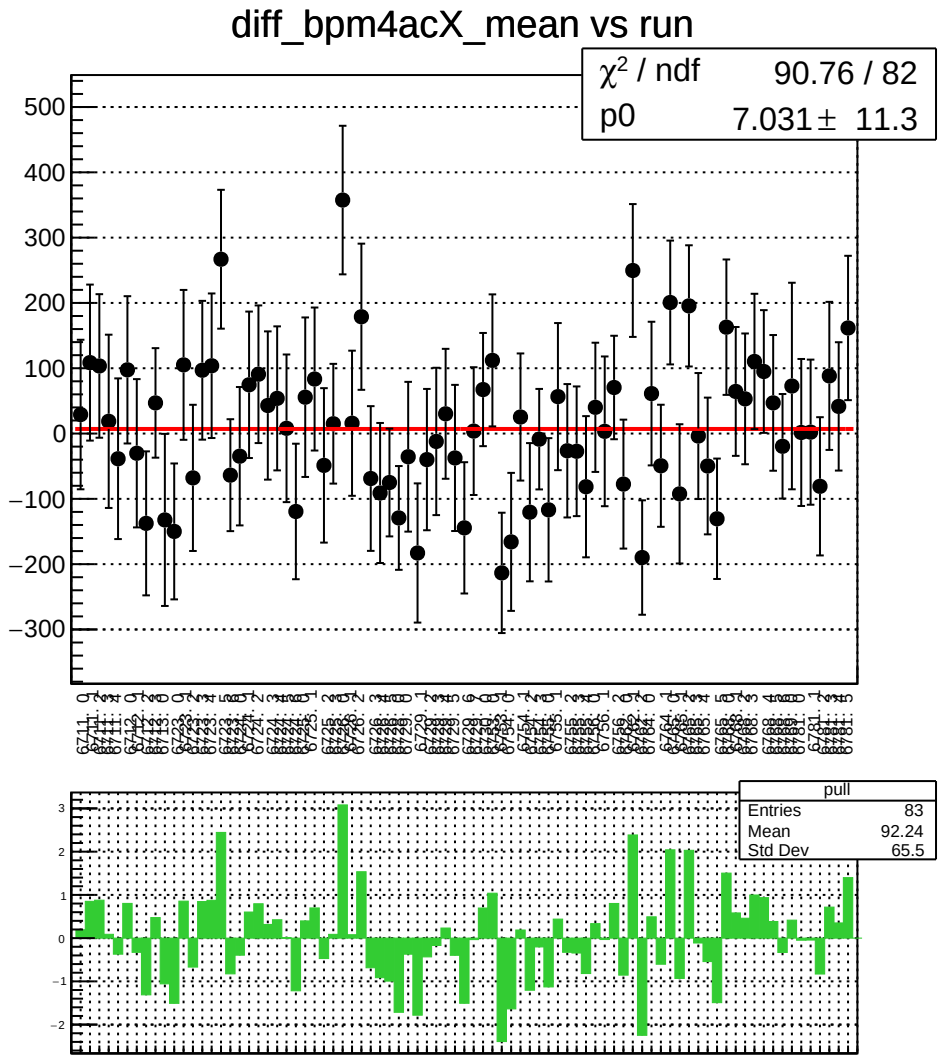

pull1D
Entries 83
Mean 0.01912
Std Dev 1.041

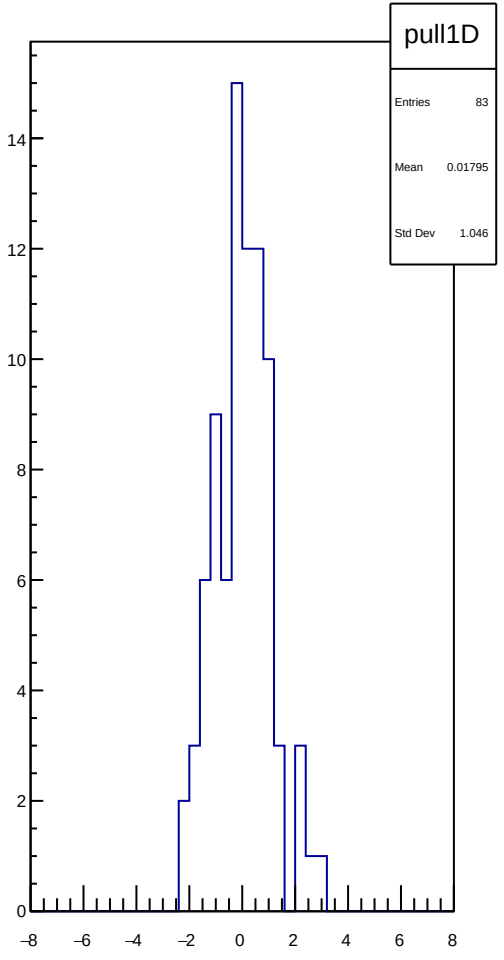

diff_bpm4eX_rms vs run
χ² / ndf 6113 / 82
p0 9974 ± 7.818
12500
12000
11500
11000
10500
10000
9500
9000
8500

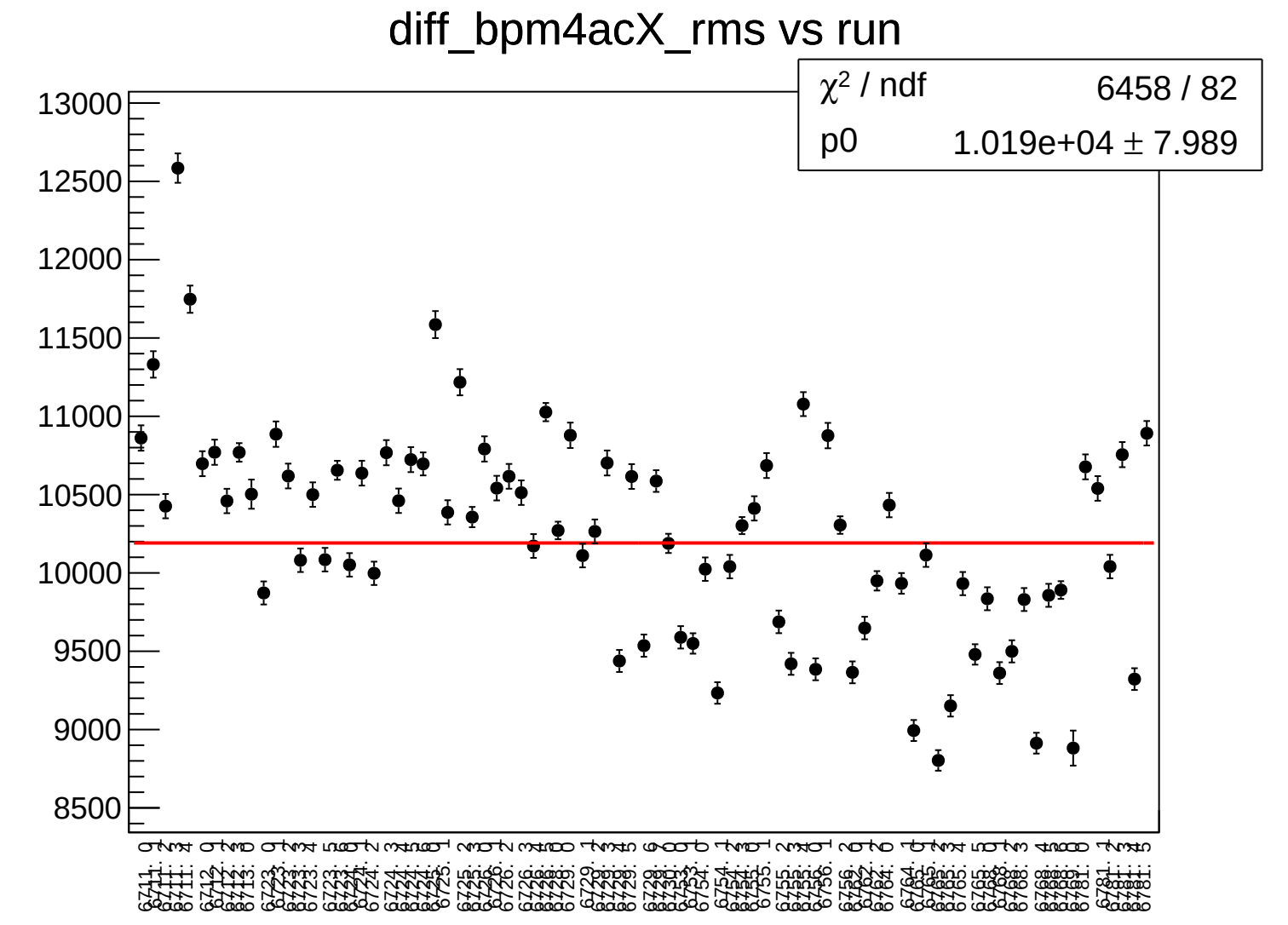

diff_bpm4eY_mean vs run
χ² / ndf 79.43 / 82
p0 10.98 ± 8.218
pull
Entries 83
Mean −1818
Std Dev 1873

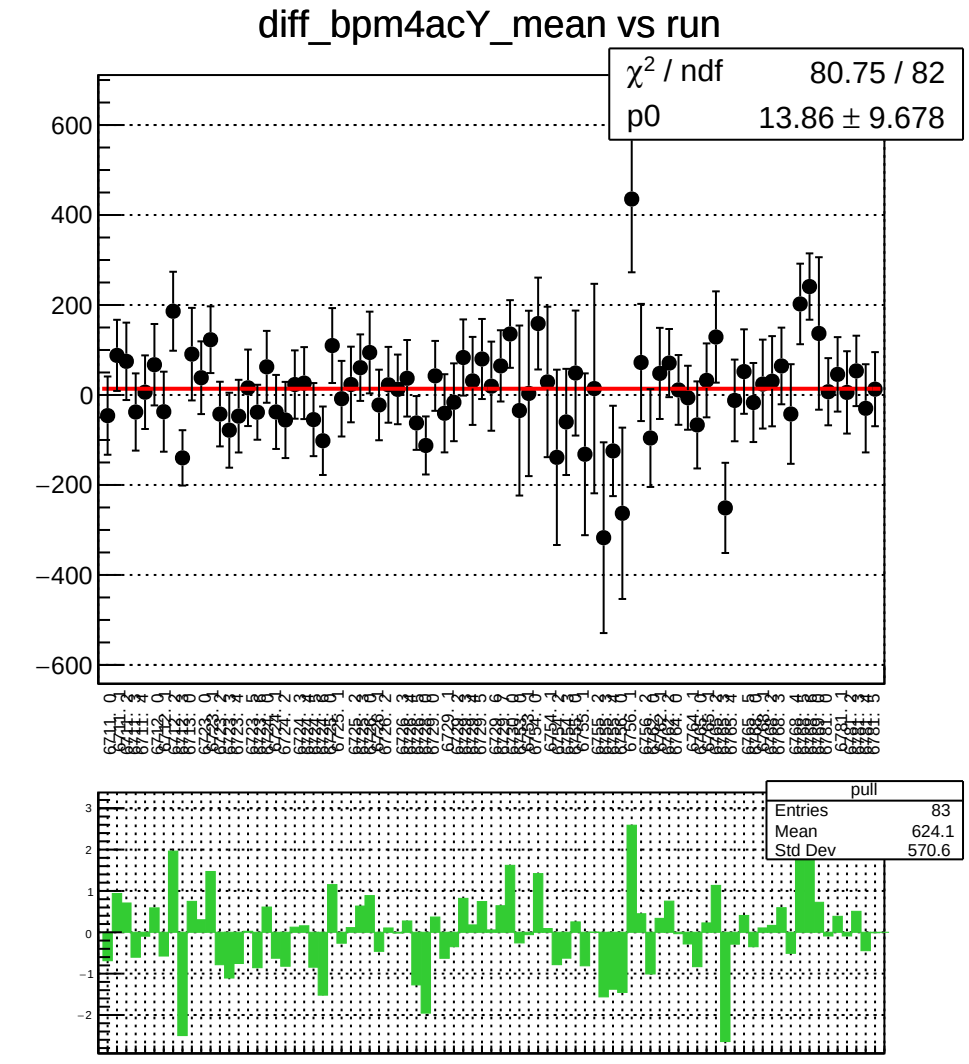

pull1D
Entries 83
Mean −0.001074
Std Dev 0.9783

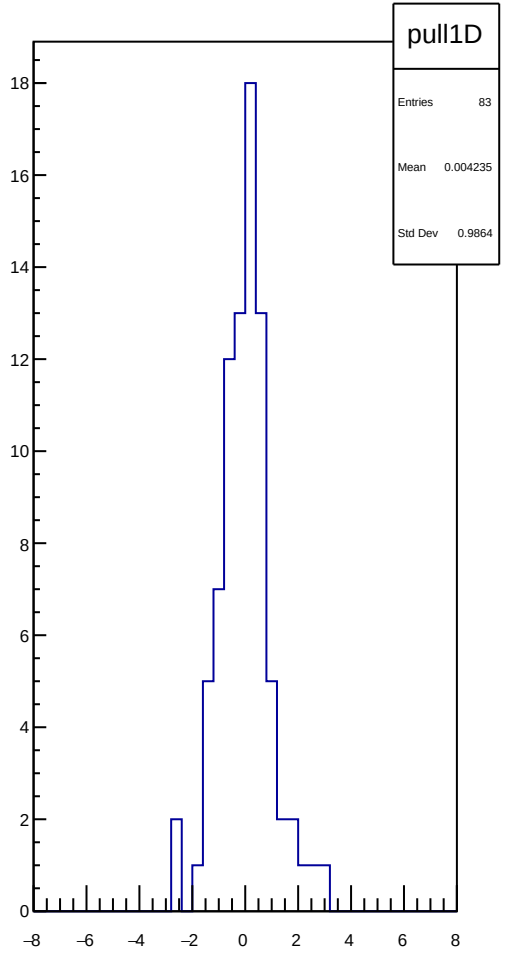

diff_bpm4eY_rms vs run
χ² / ndf 4.648e+04 / 82
p0 7321 ± 5.811
14000
12000
10000
8000
6000

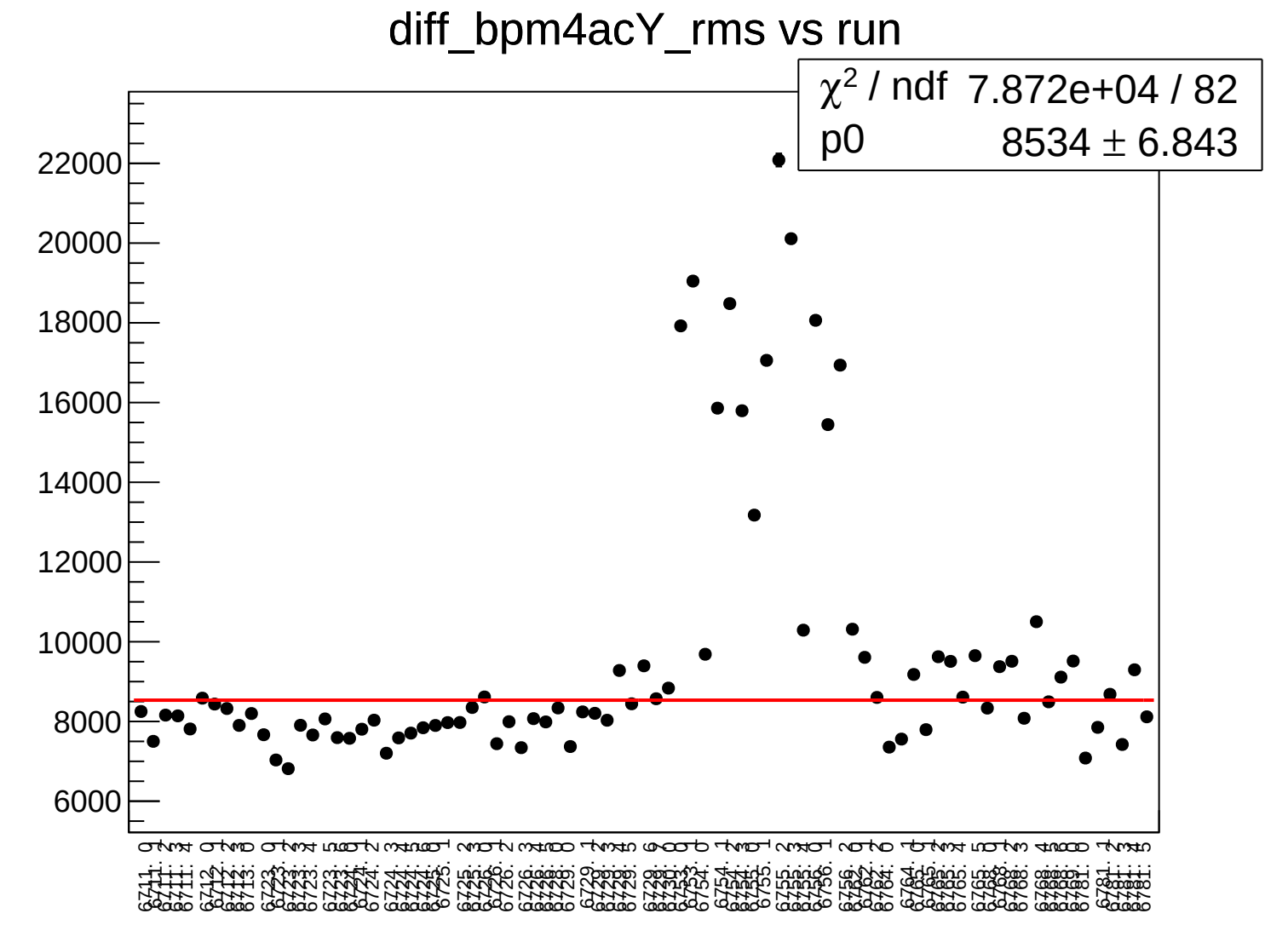

diff_bpm4acX_mean vs run
χ² / ndf 90.76 / 82
p0 7.031 ± 11.3
pull
Entries 83
Mean 92.24
Std Dev 65.5

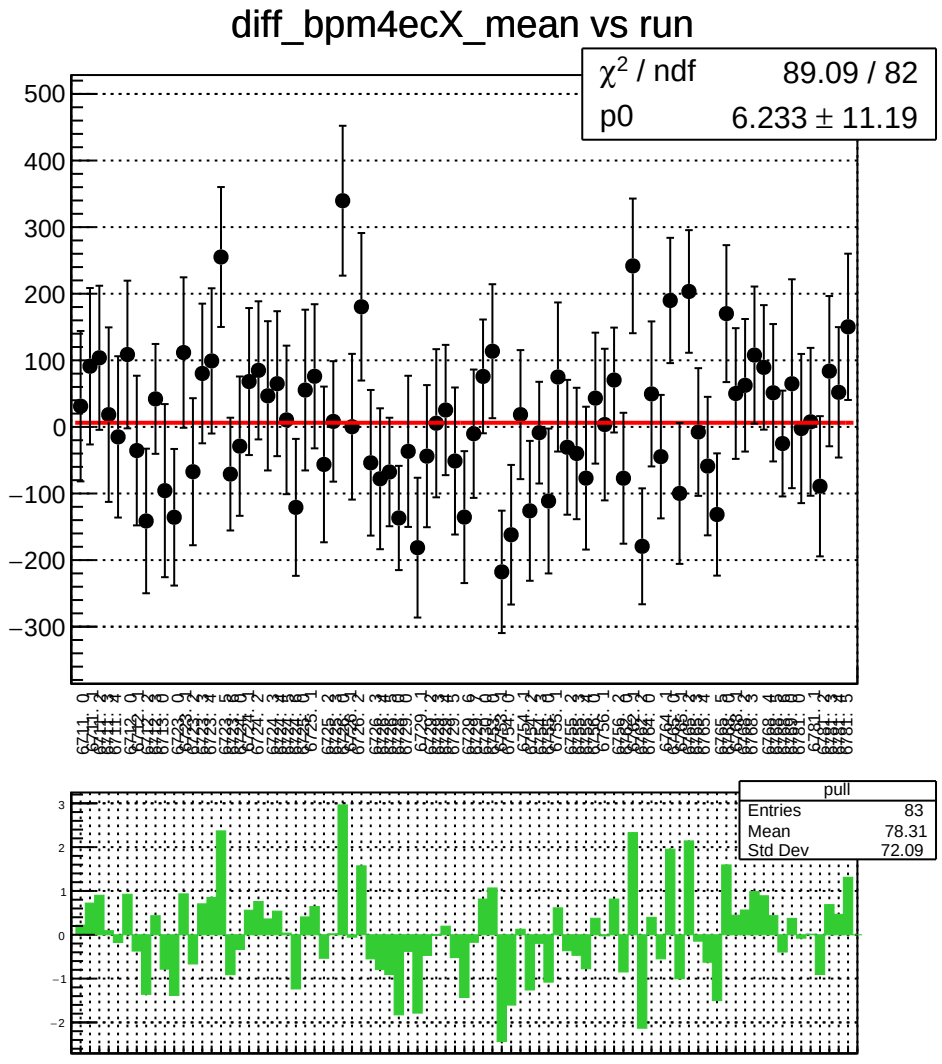

pull1D
Entries 83
Mean 0.01795
Std Dev 1.046

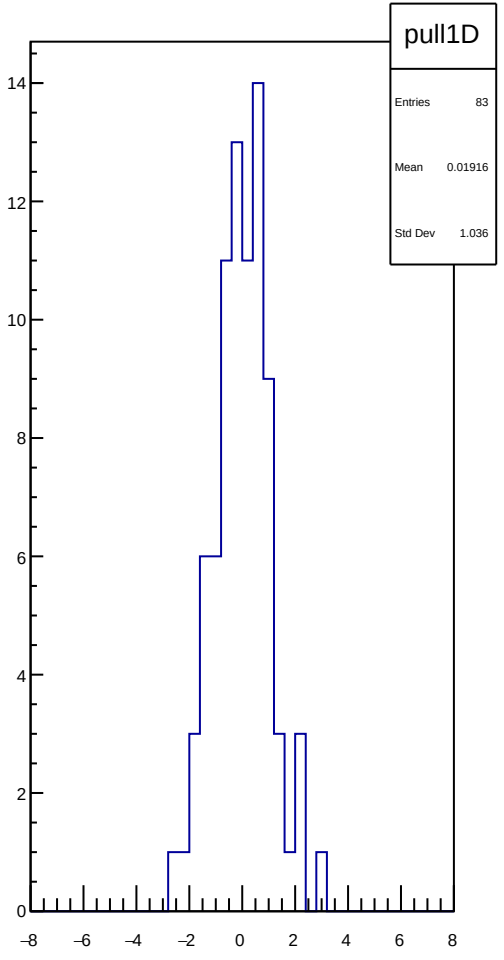

diff_bpm4acX_rms vs run
χ² / ndf 6458 / 82
p0 1.019e+04 ± 7.989
13000
12500
12000
11500
11000
10500
10000
9500
9000
8500

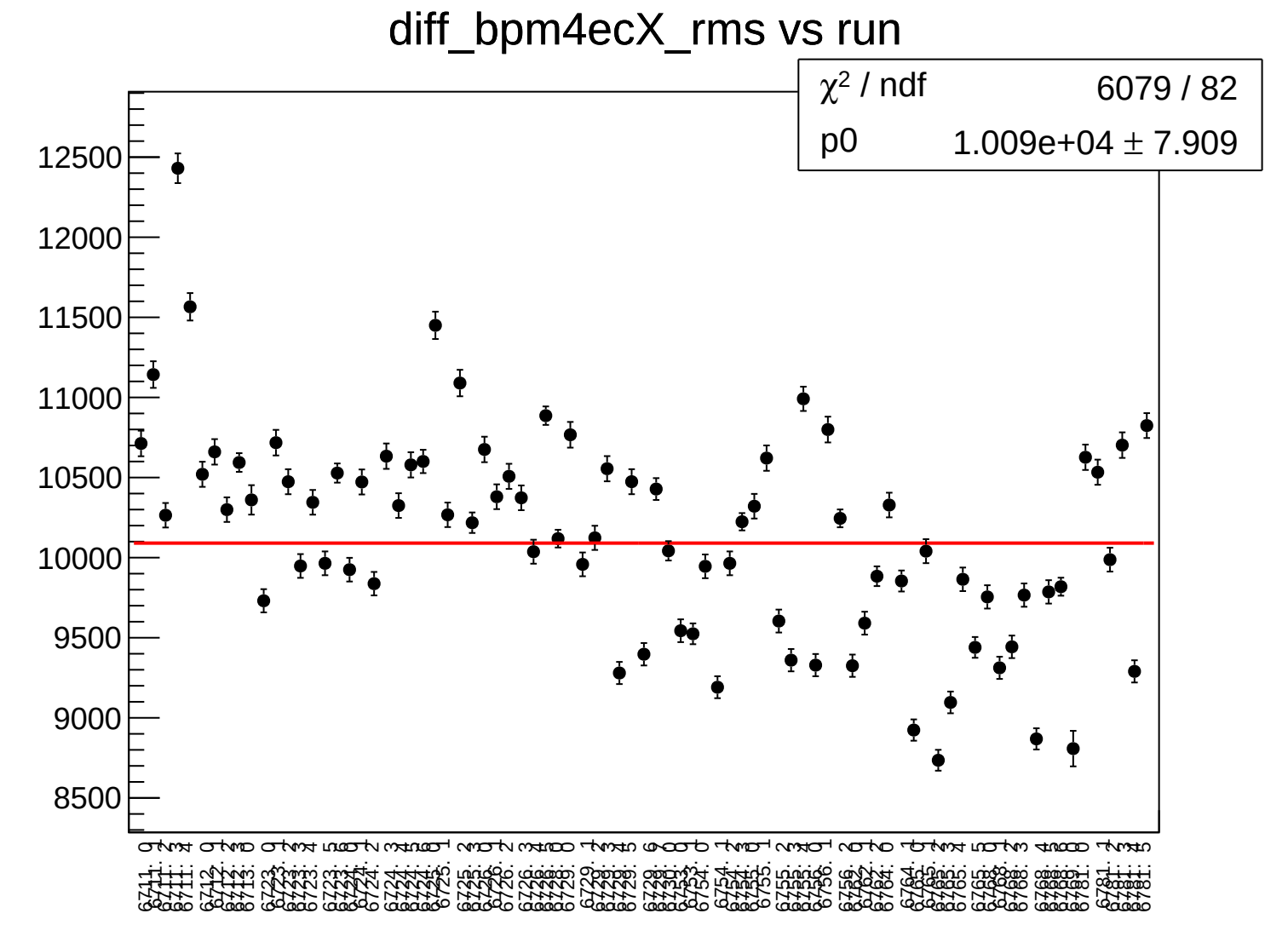

diff_bpm4acY_mean vs run
χ² / ndf 80.75 / 82
p0 13.86 ± 9.678
pull
Entries 83
Mean 624.1
Std Dev 570.6

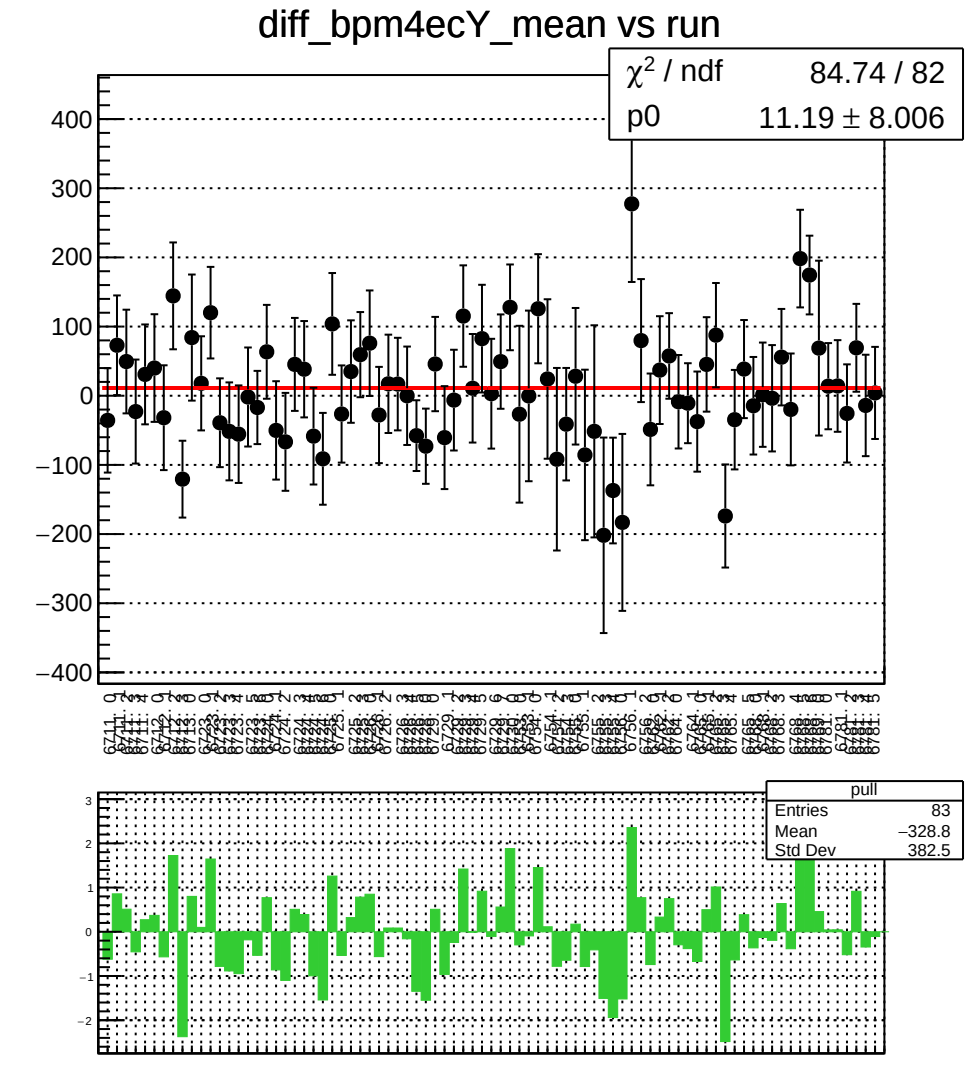

pull1D
Entries 83
Mean 0.004235
Std Dev 0.9864

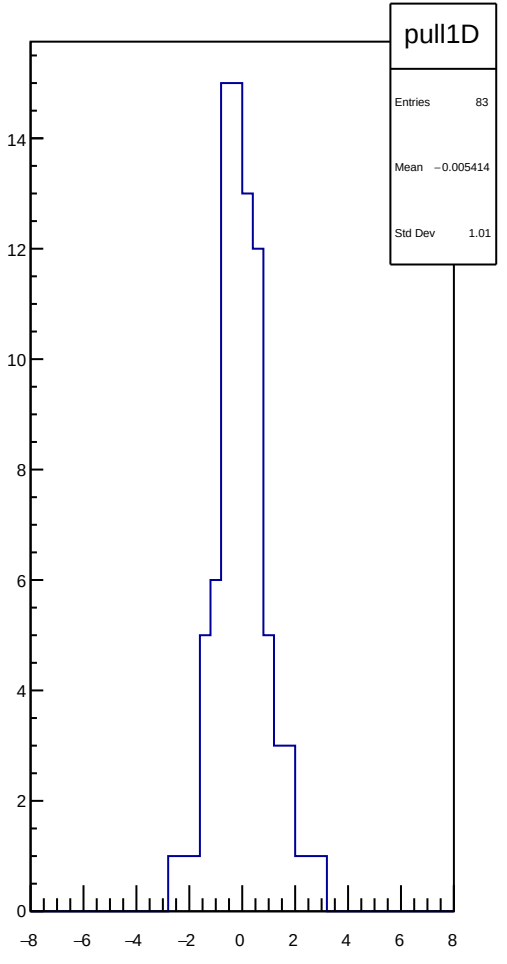

diff_bpm4acY_rms vs run
χ² / ndf 7.872e+04 / 82
p0 8534 ± 6.843
22000
20000
18000
16000
14000
12000
10000
8000
6000

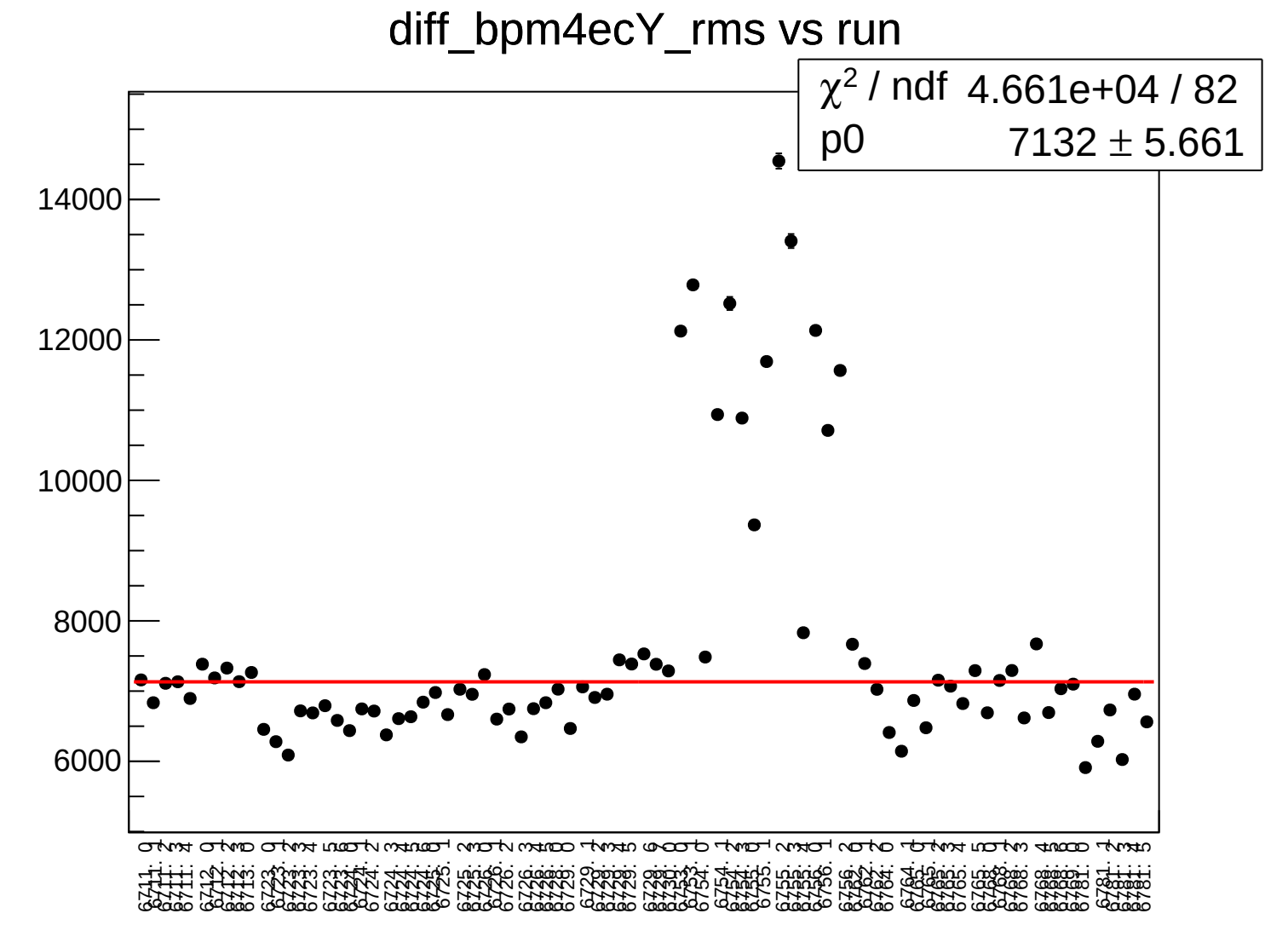

diff_bpm4ecX_mean vs run
χ² / ndf 89.09 / 82
p0 6.233 ± 11.19
pull
Entries 83
Mean 78.31
Std Dev 72.09

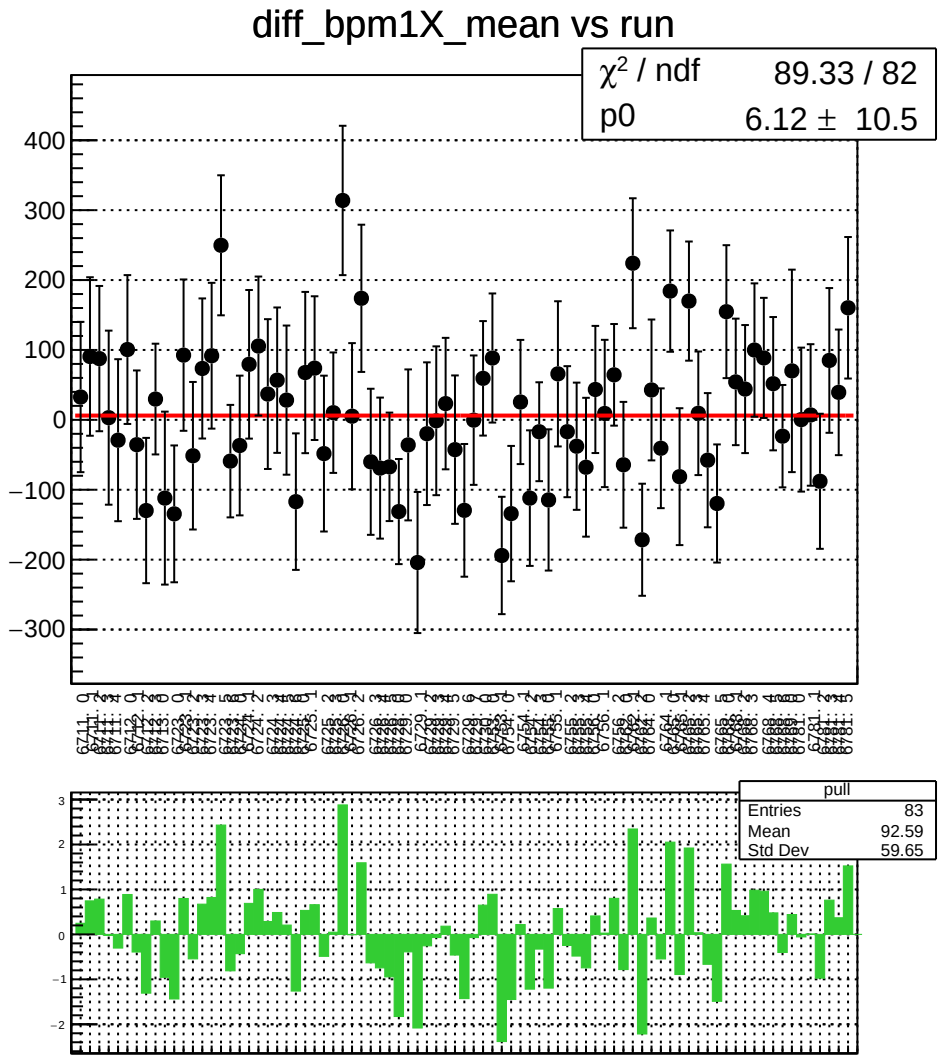

pull1D
Entries 83
Mean 0.01916
Std Dev 1.036

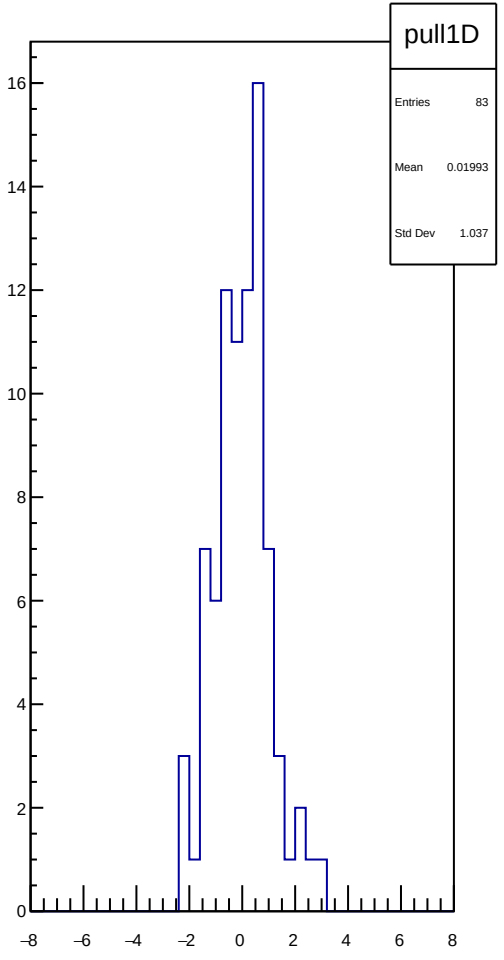

diff_bpm4ecX_rms vs run
χ² / ndf 6079 / 82
p0 1.009e+04 ± 7.909
12500
12000
11500
11000
10500
10000
9500
9000
8500

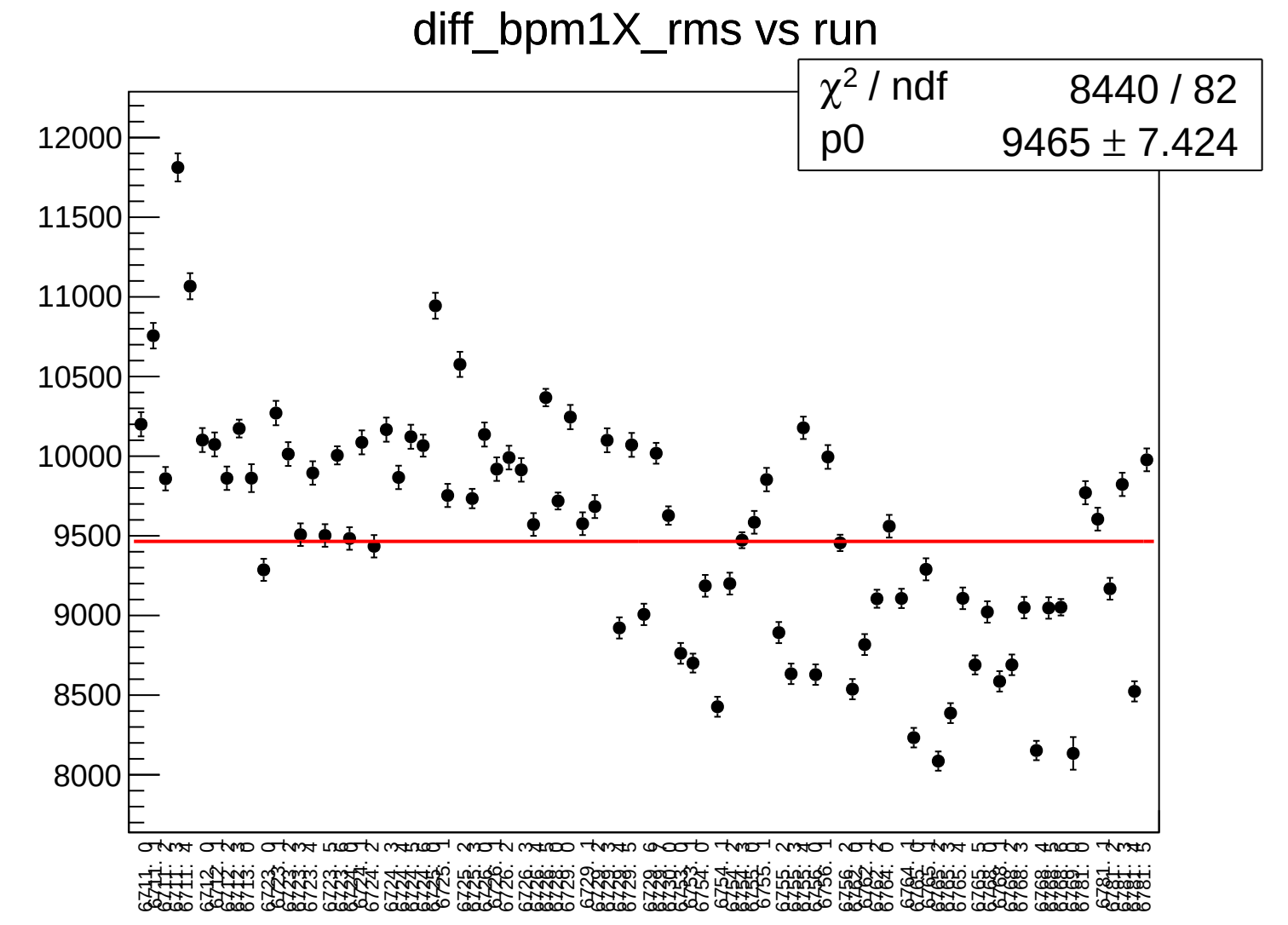

diff_bpm4ecY_mean vs run
χ² / ndf 84.74 / 82
p0 11.19 ± 8.006
pull
Entries 83
Mean −328.8
Std Dev 382.5

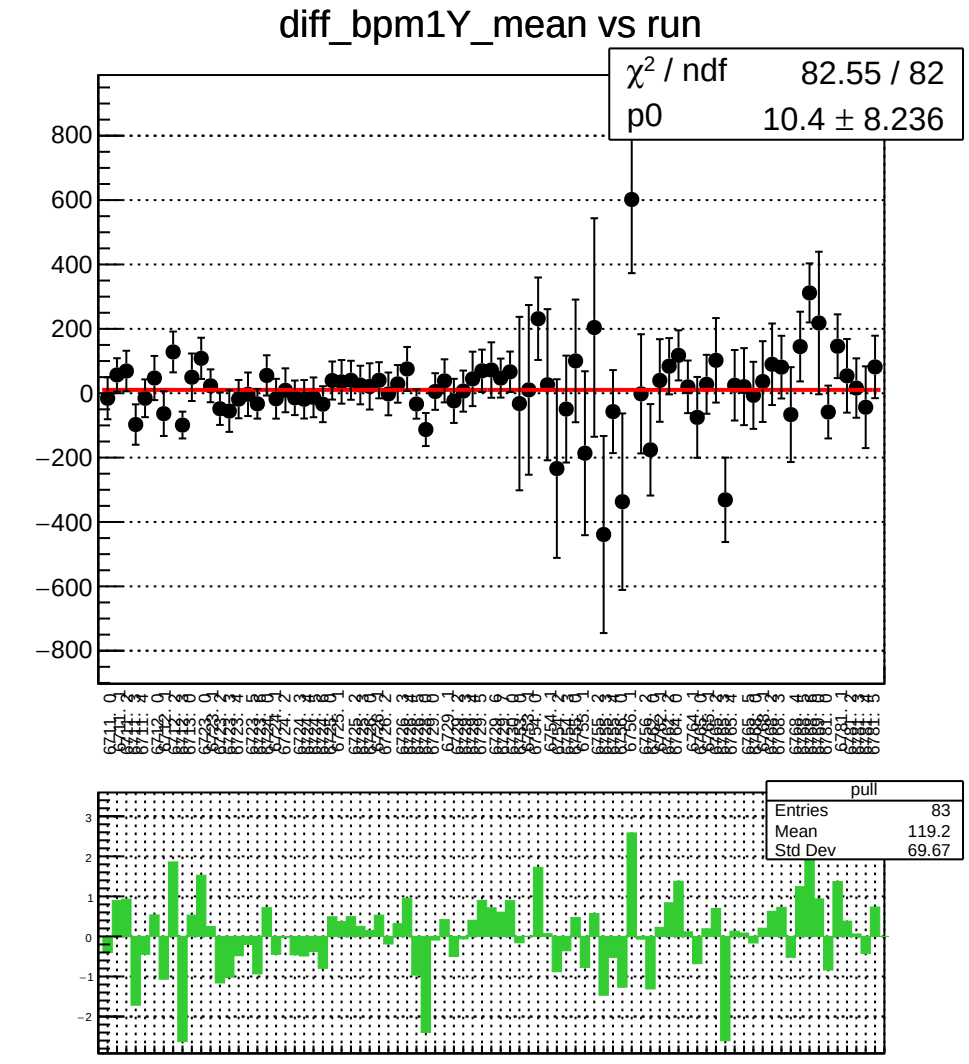

pull1D
Entries 83
Mean −0.005414
Std Dev 1.01

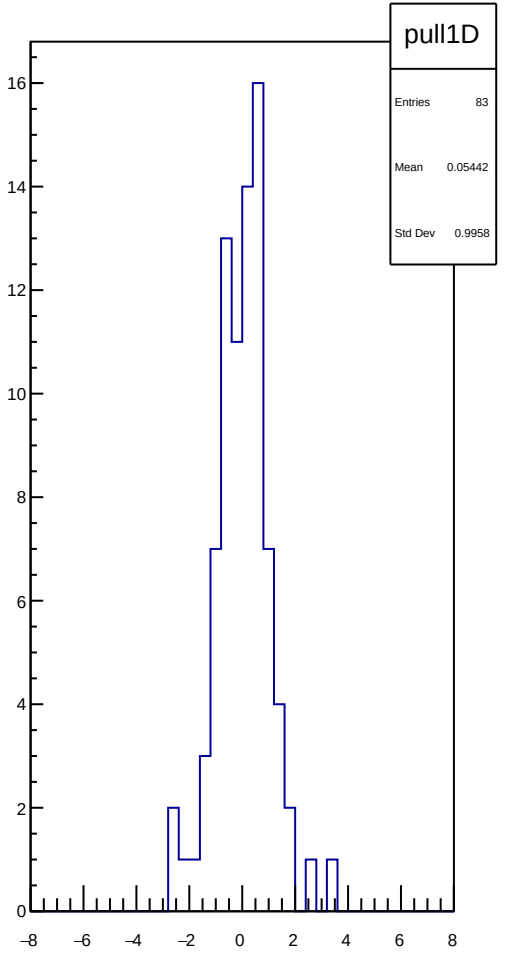

diff_bpm4ecY_rms vs run
χ² / ndf 4.661e+04 / 82
p0 7132 ± 5.661
14000
12000
10000
8000
6000

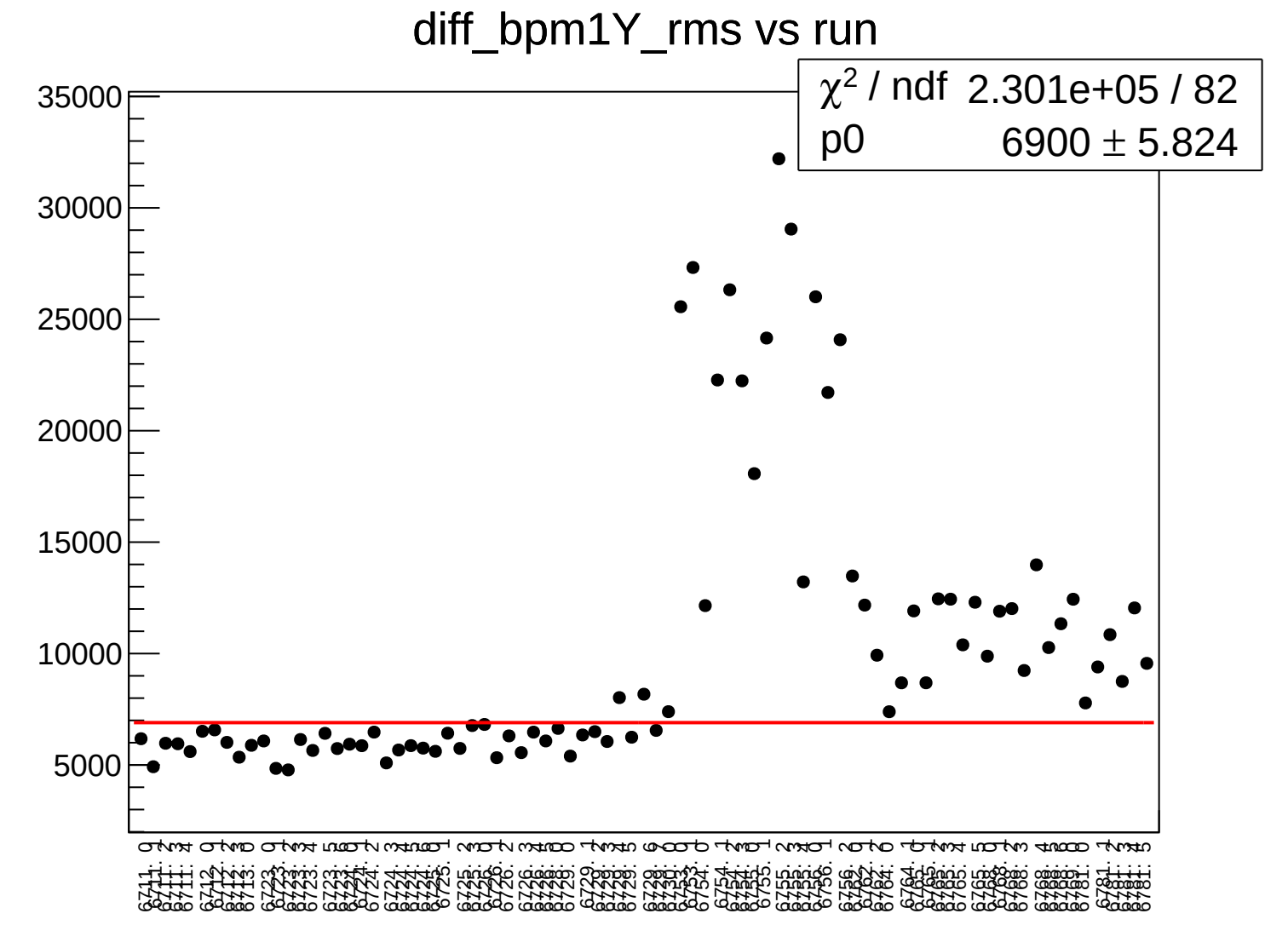

diff_bpm1X_mean vs run
χ² / ndf 89.33 / 82
p0 6.12 ± 10.5
pull
Entries 83
Mean 92.59
Std Dev 59.65

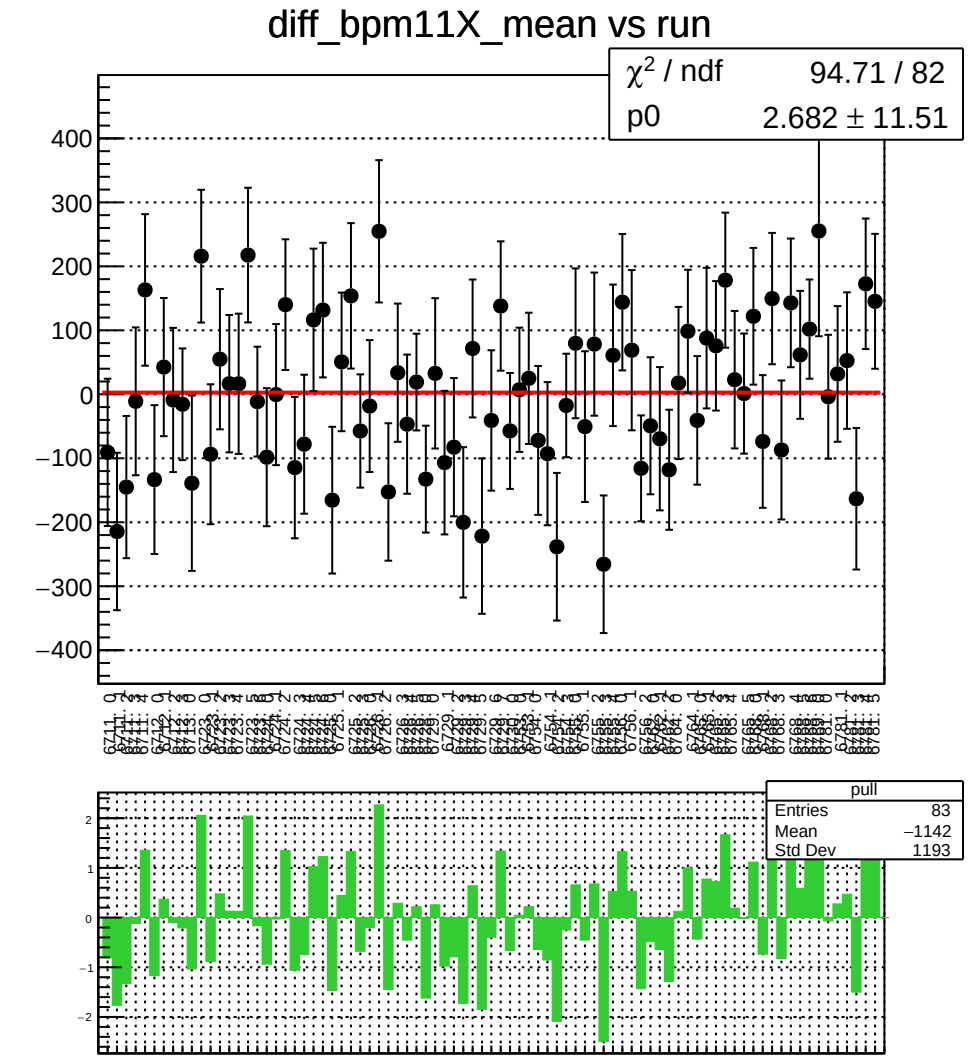

pull1D
Entries 83
Mean 0.01993
Std Dev 1.037

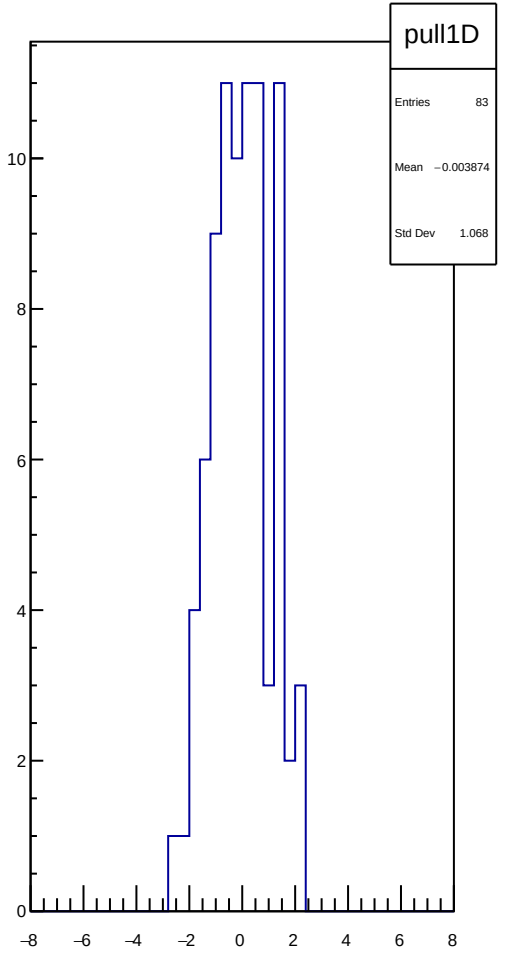

diff_bpm1X_rms vs run
χ² / ndf 8440 / 82
p0 9465 ± 7.424
12000
11500
11000
10500
10000
9500
9000
8500
8000

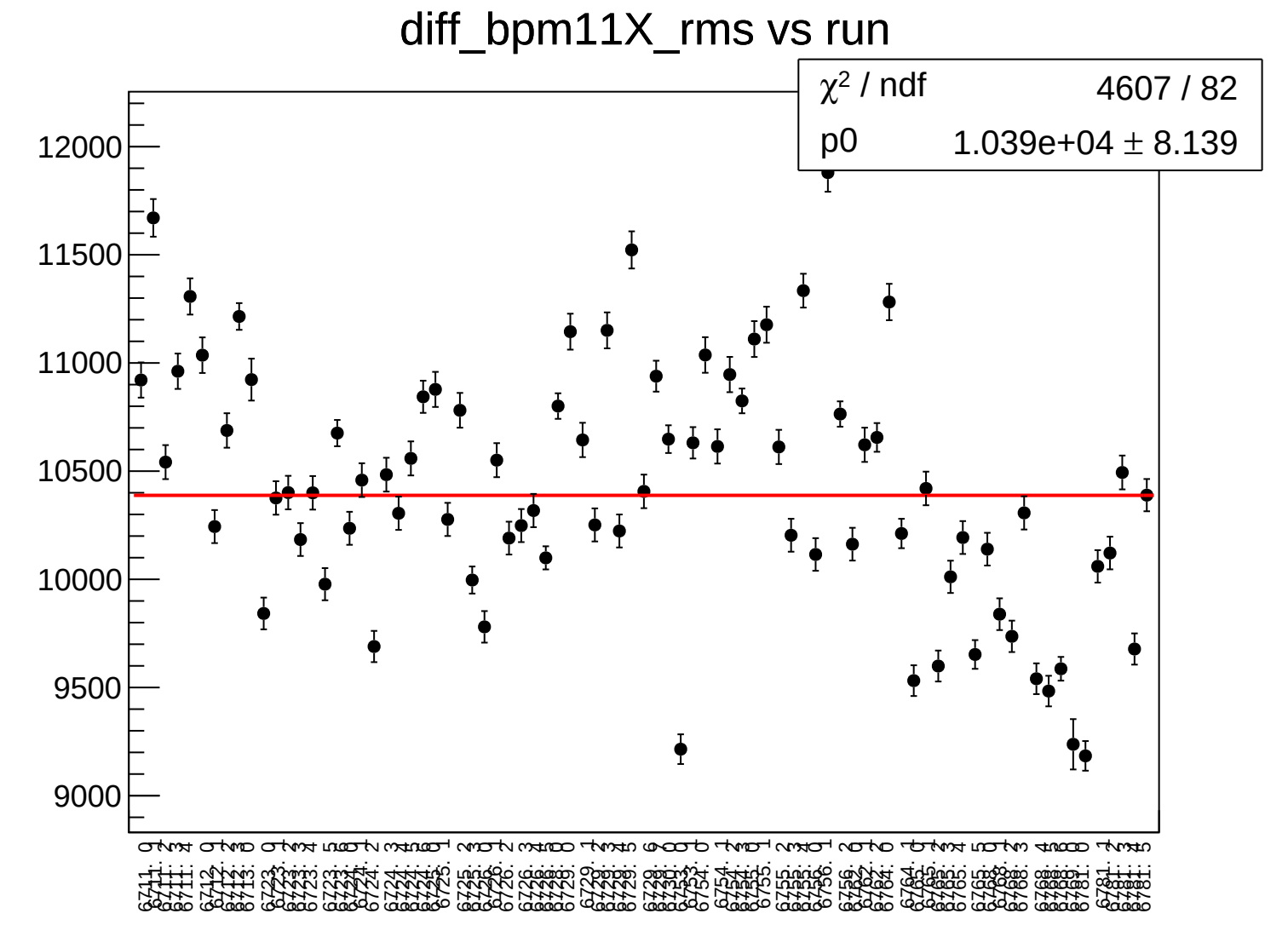

diff_bpm1Y_mean vs run
χ² / ndf 82.55 / 82
p0 10.4 ± 8.236
pull
Entries 83
Mean 119.2
Std Dev 69.67

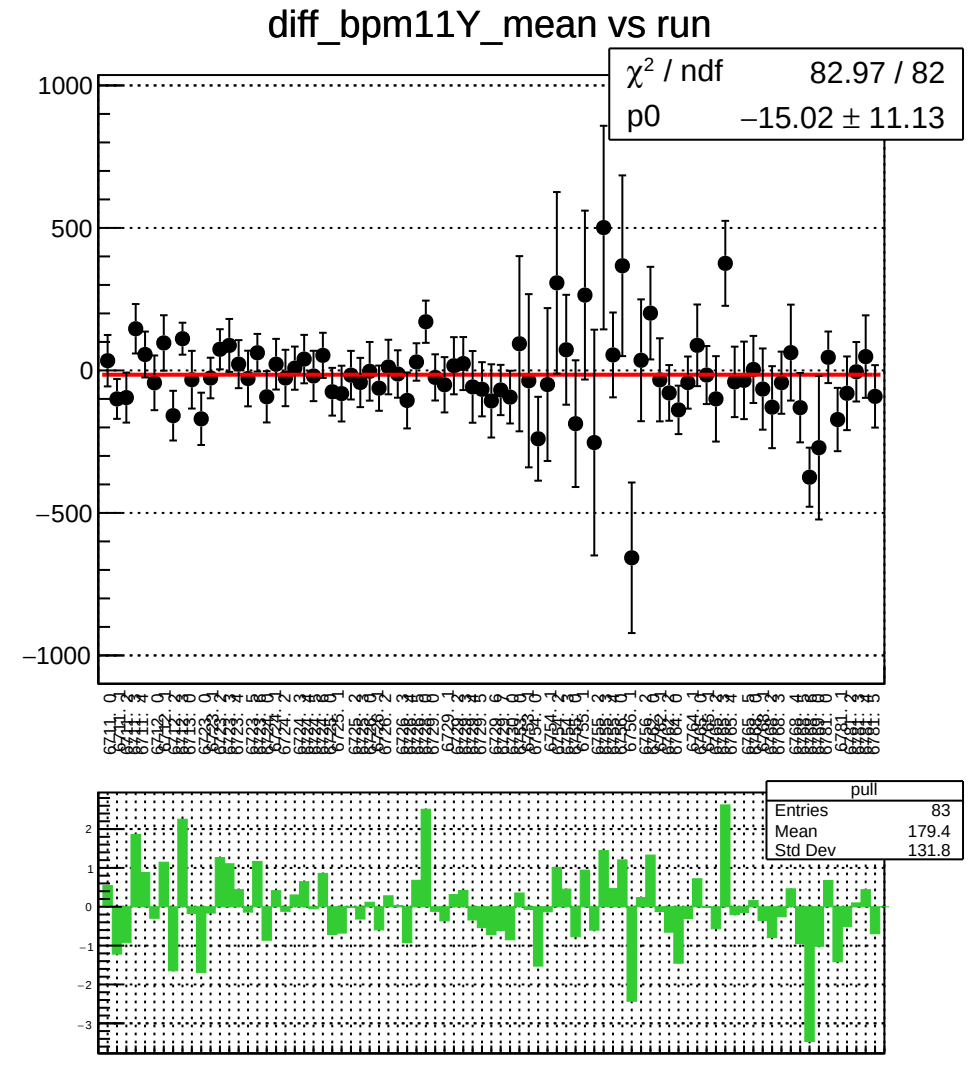

pull1D
Entries 83
Mean 0.05442
Std Dev 0.9958

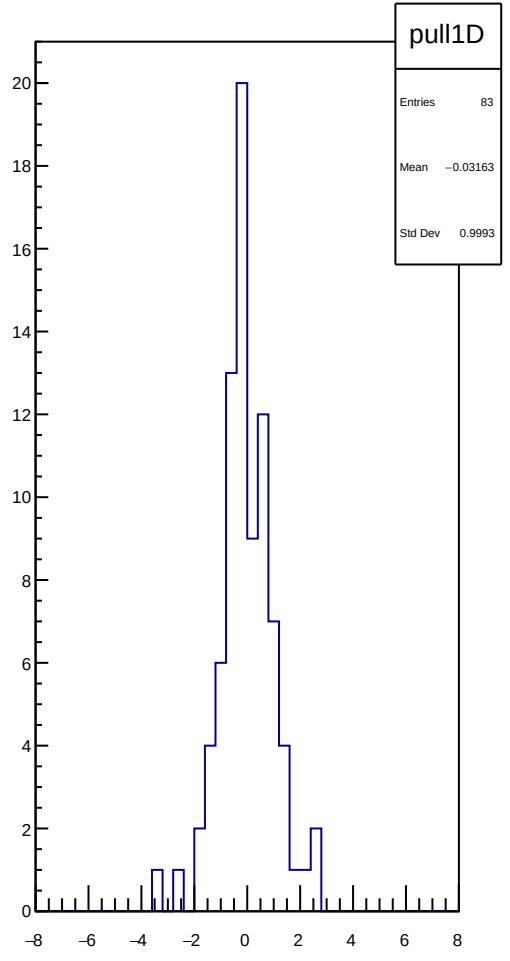

diff_bpm1Y_rms vs run
χ² / ndf 2.301e+05 / 82
p0 6900 ± 5.824
35000
30000
25000
20000
15000
10000
5000

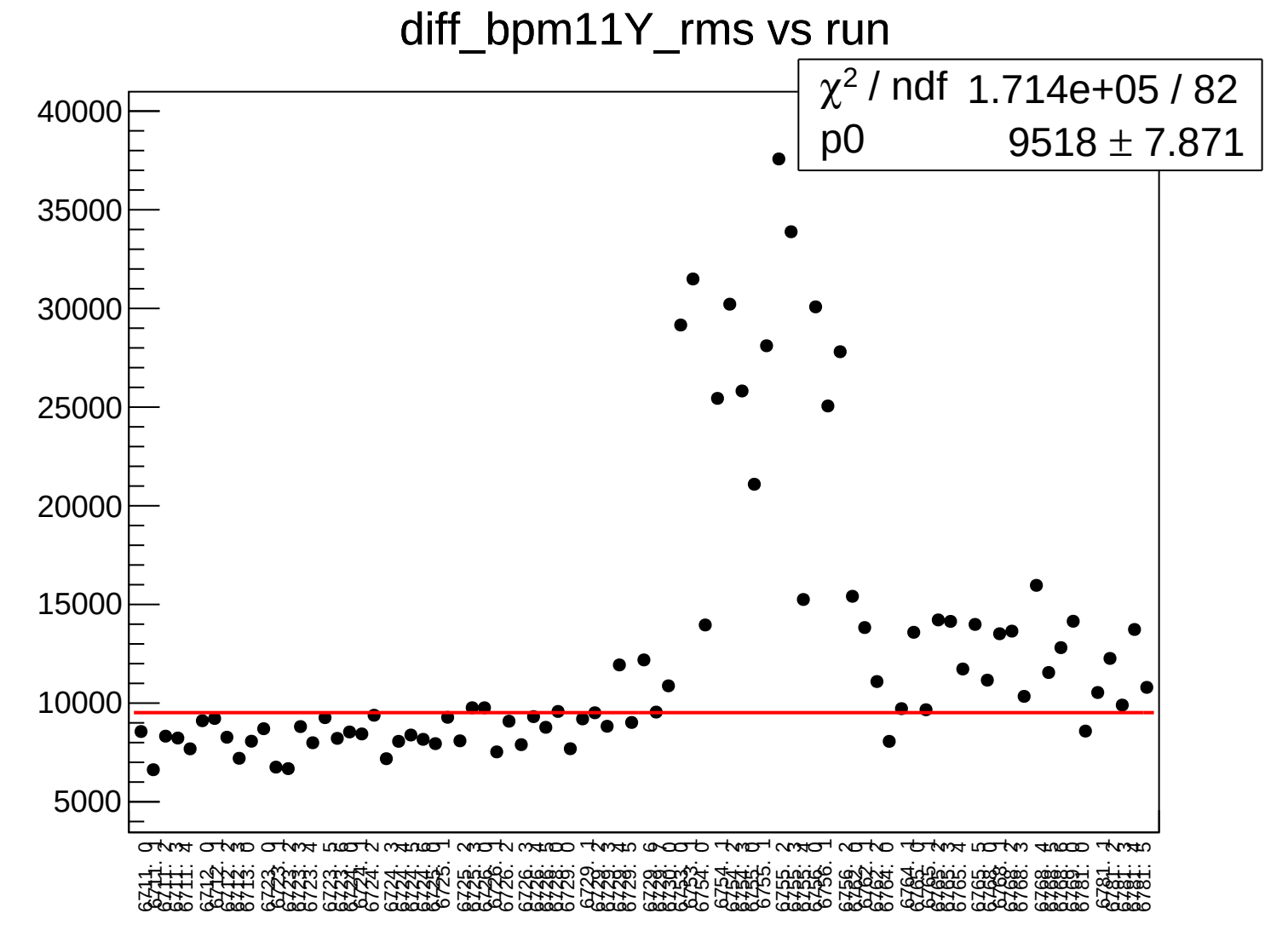

diff_bpm11X_mean vs run
χ² / ndf 94.71 / 82
p0 2.682 ± 11.51
pull
Entries 83
Mean −1142
Std Dev 1193

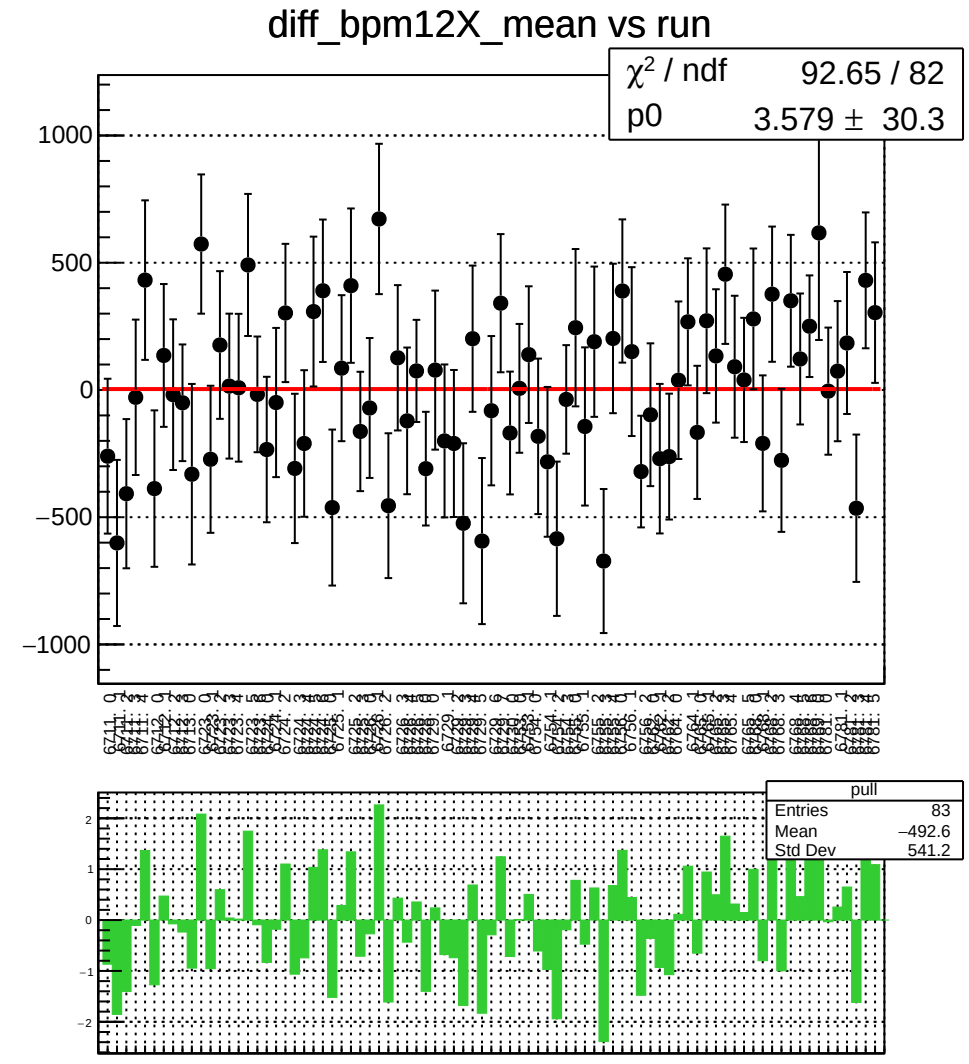

pull1D
Entries 83
Mean −0.003874
Std Dev 1.068

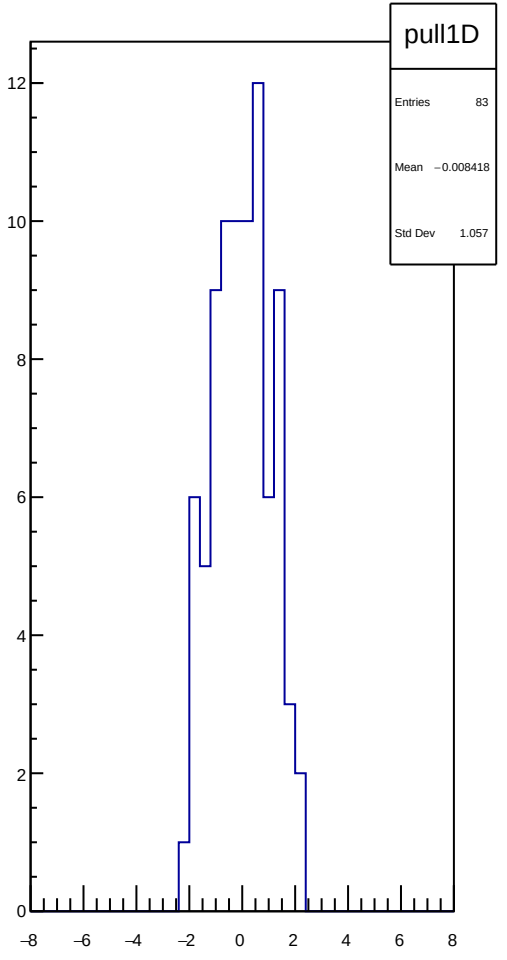

diff_bpm11X_rms vs run
χ² / ndf 4607 / 82
p0 1.039e+04 ± 8.139
12000
11500
11000
10500
10000
9500
9000

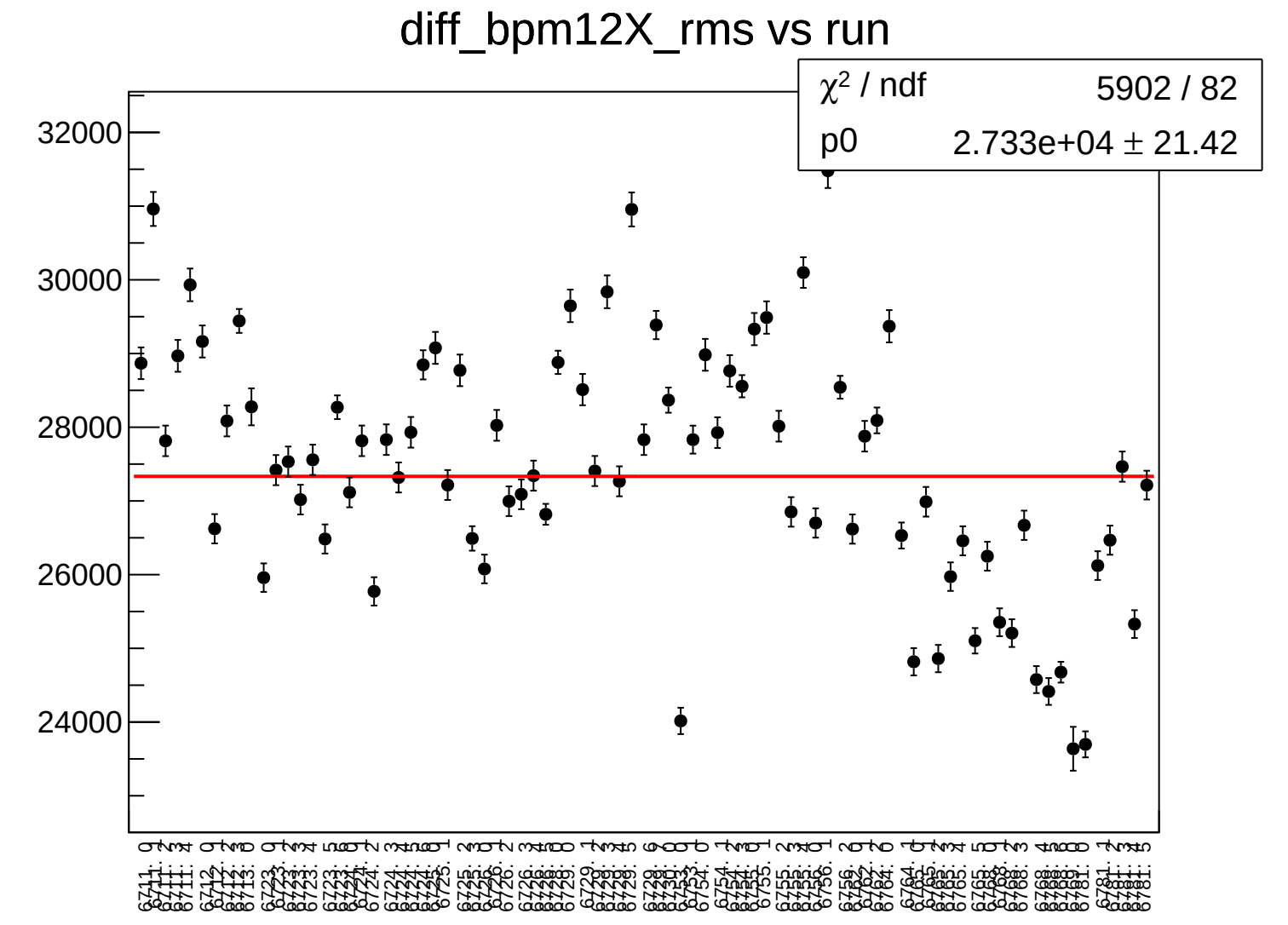

diff_bpm11Y_mean vs run
χ² / ndf 82.97 / 82
p0 −15.02 ± 11.13
1000
500
0
−500
−1000
pull
Entries 83
Mean 179.4
Std Dev 131.8
2
1
0
−1
−2
−3

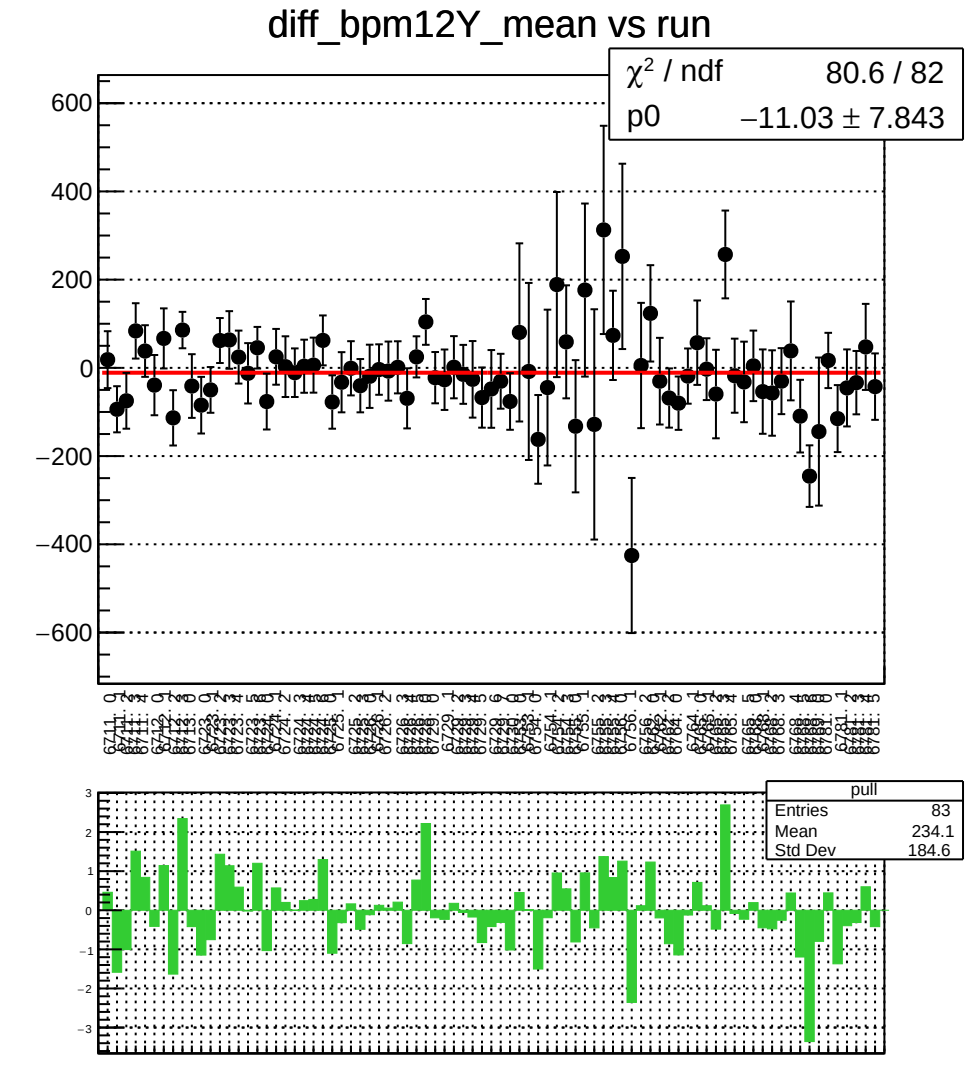

pull1D
Entries 83
Mean −0.03163
Std Dev 0.9993
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

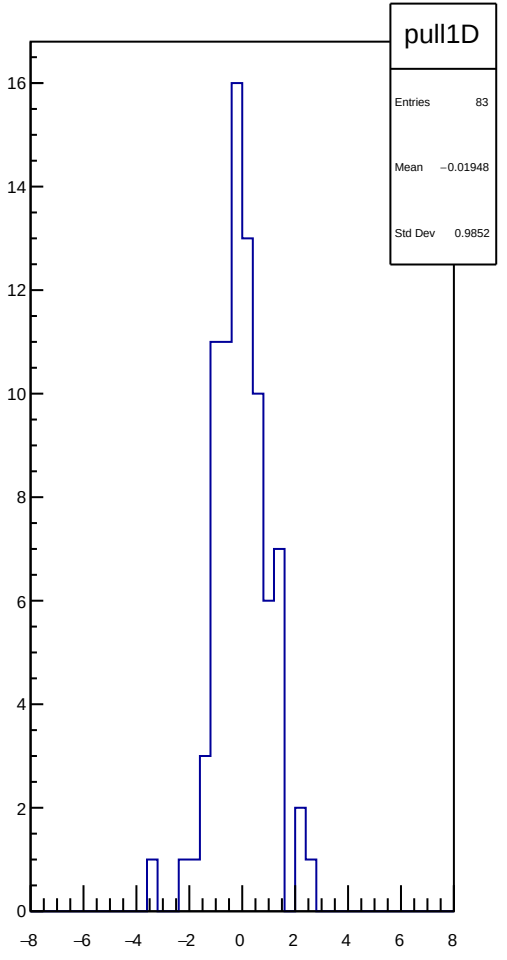

diff_bpm11Y_rms vs run
χ² / ndf 1.714e+05 / 82
p0 9518 ± 7.871
40000
35000
30000
25000
20000
15000
10000
5000

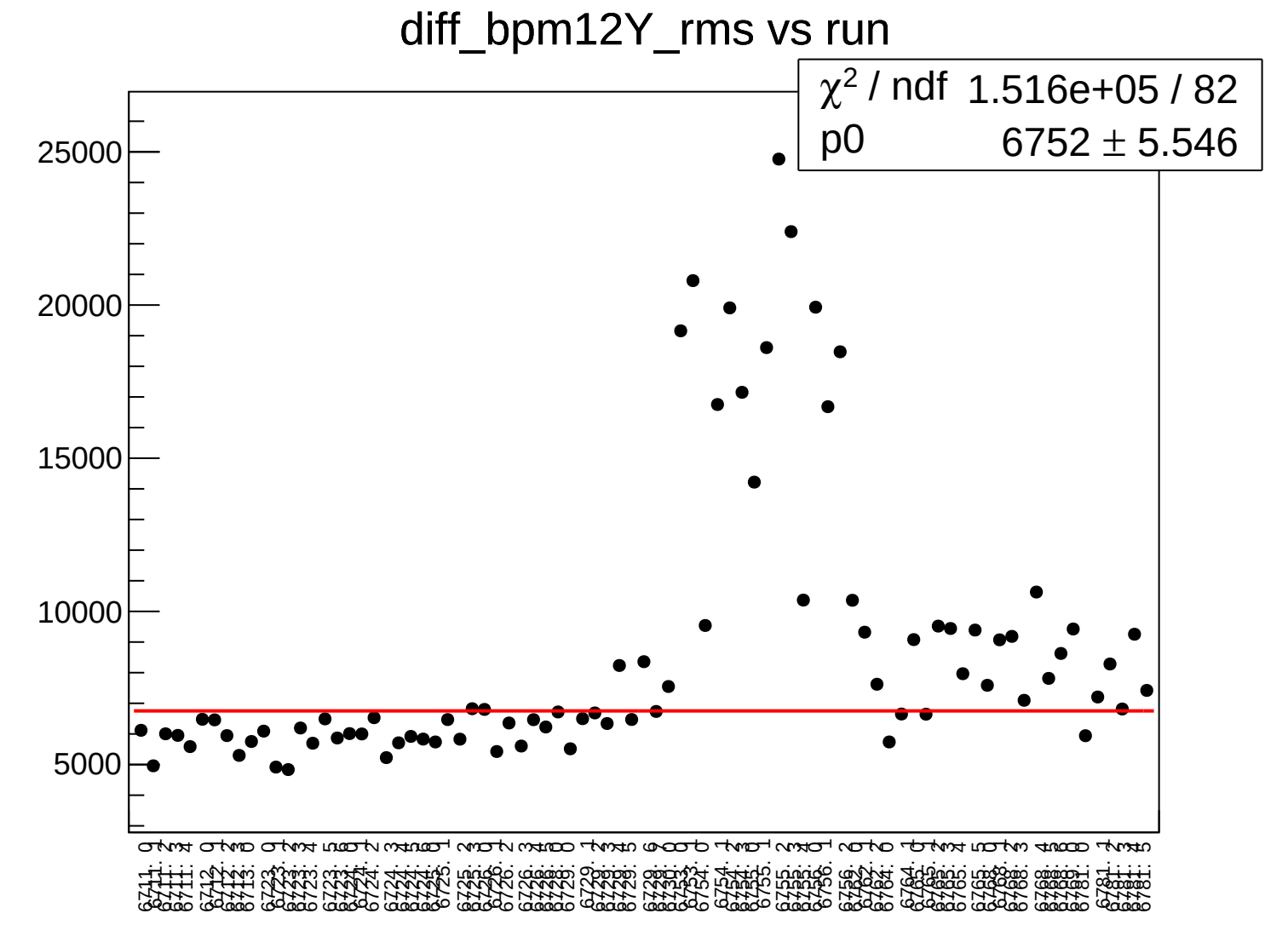

diff_bpm12X_mean vs run
χ² / ndf 92.65 / 82
p0 3.579 ± 30.3
1000
500
0
−500
−1000
pull
Entries 83
Mean −492.6
Std Dev 541.2
2
1
0
−1
−2

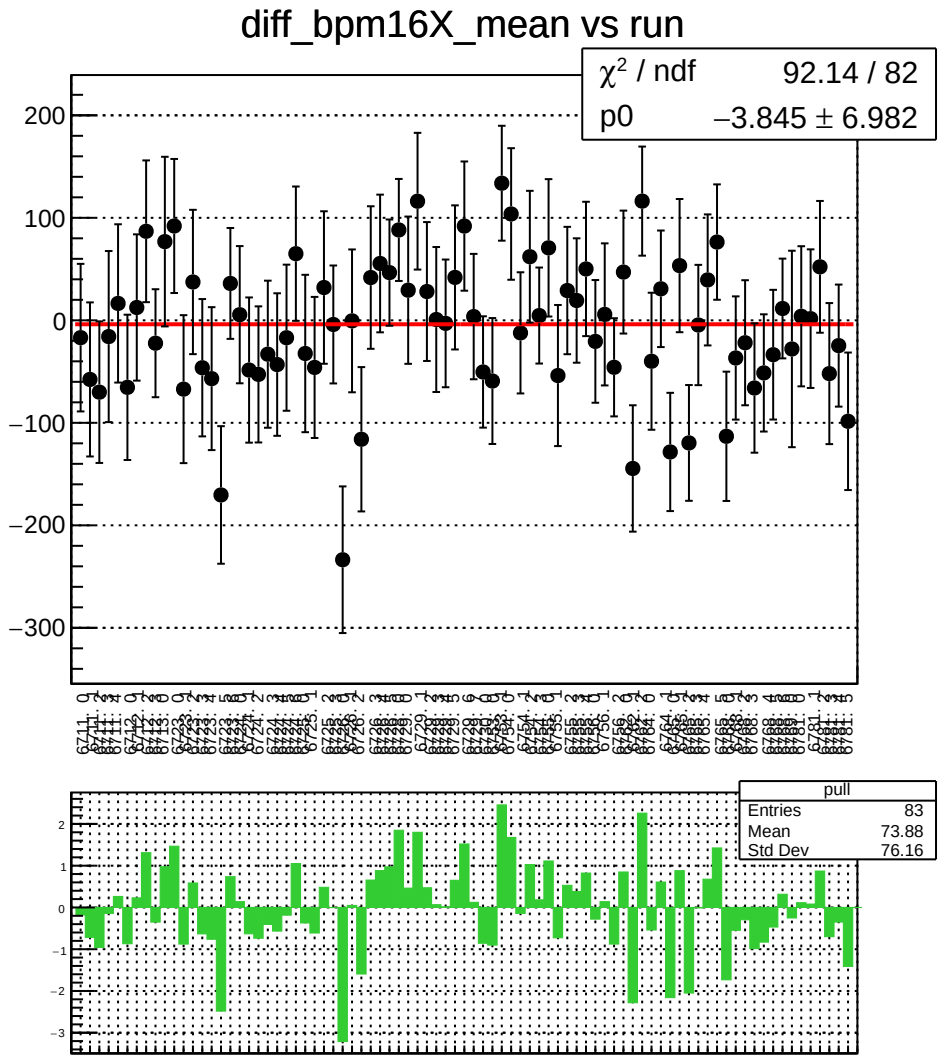

pull1D
Entries 83
Mean −0.008418
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

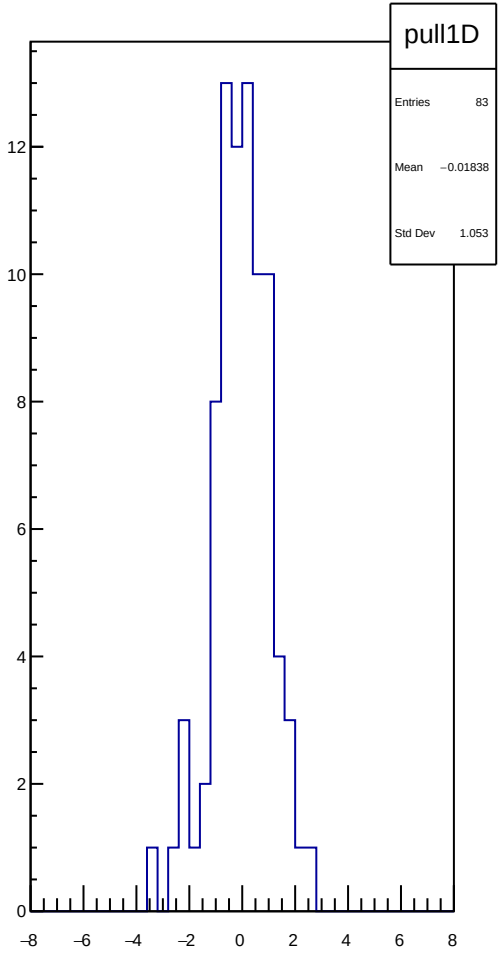

diff_bpm12X_rms vs run
χ² / ndf 5902 / 82
p0 2.733e+04 ± 21.42
32000
30000
28000
26000
24000

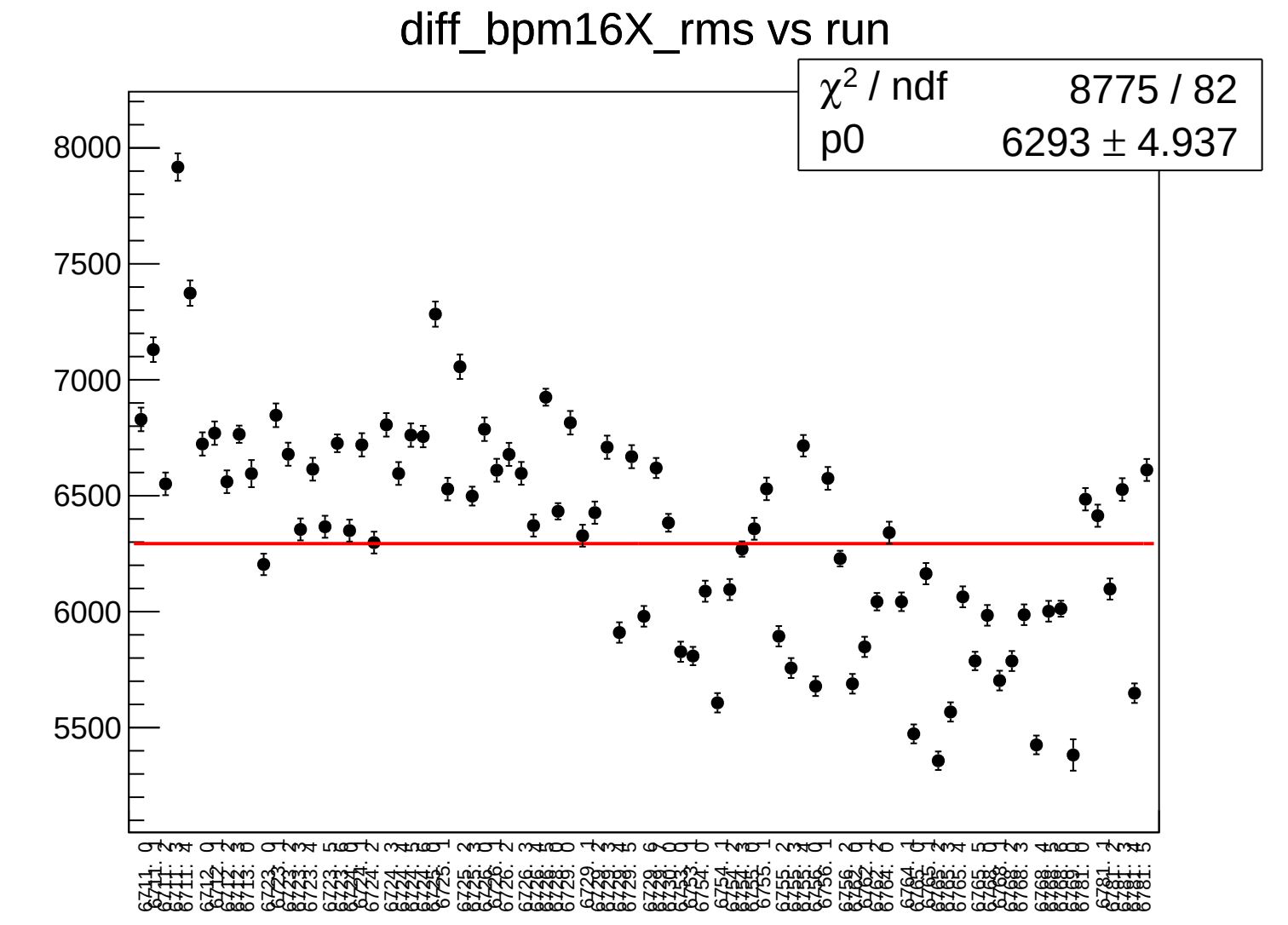

diff_bpm12Y_mean vs run
χ² / ndf 80.6 / 82
p0 −11.03 ± 7.843
pull
Entries 83
Mean 234.1
Std Dev 184.6

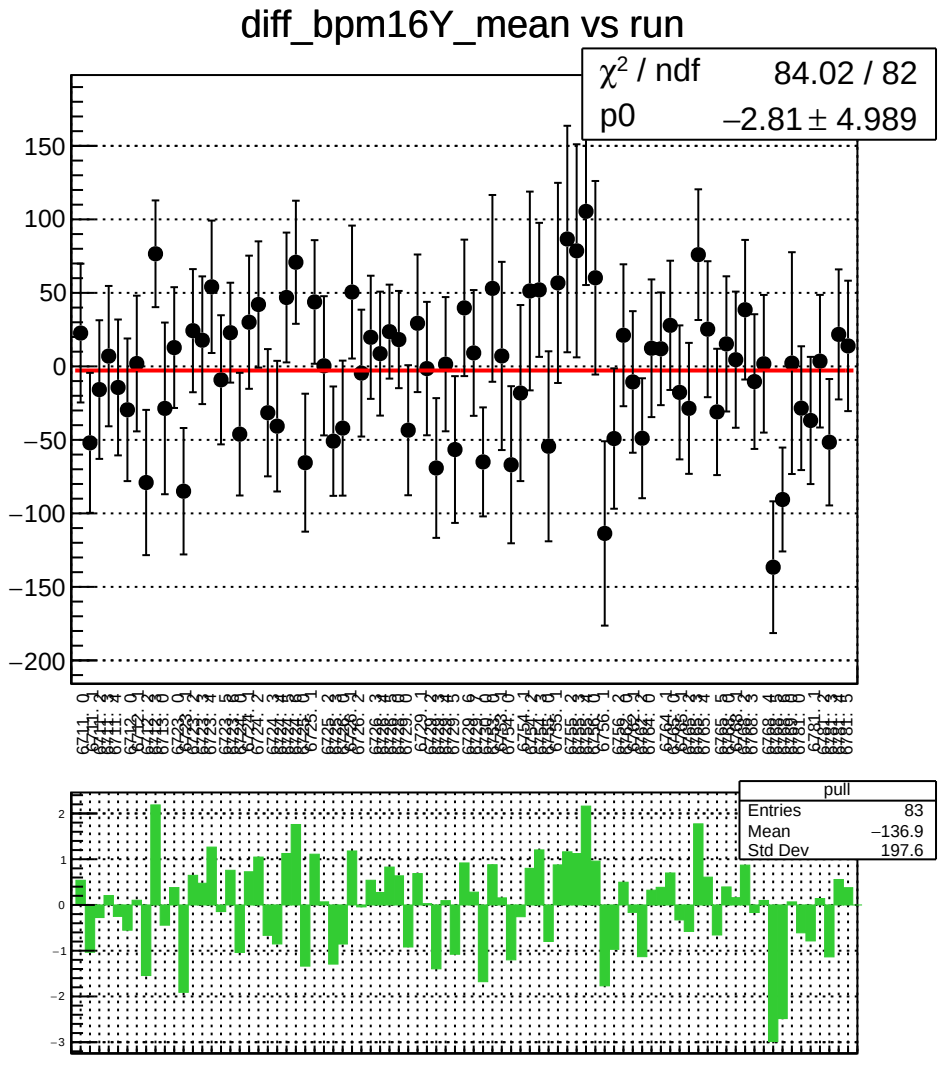

pull1D
Entries 83
Mean −0.01948
Std Dev 0.9852

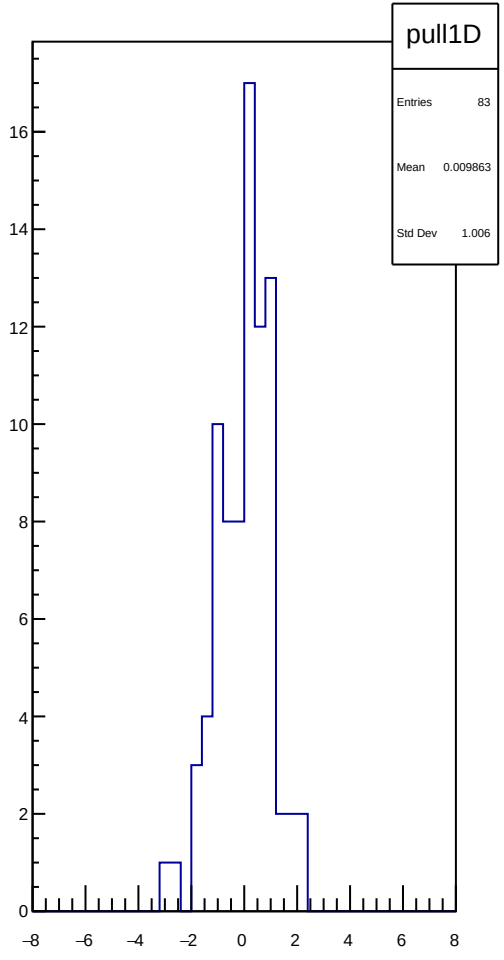

diff_bpm12Y_rms vs run
χ² / ndf 1.516e+05 / 82
p0 6752 ± 5.546
25000
20000
15000
10000
5000

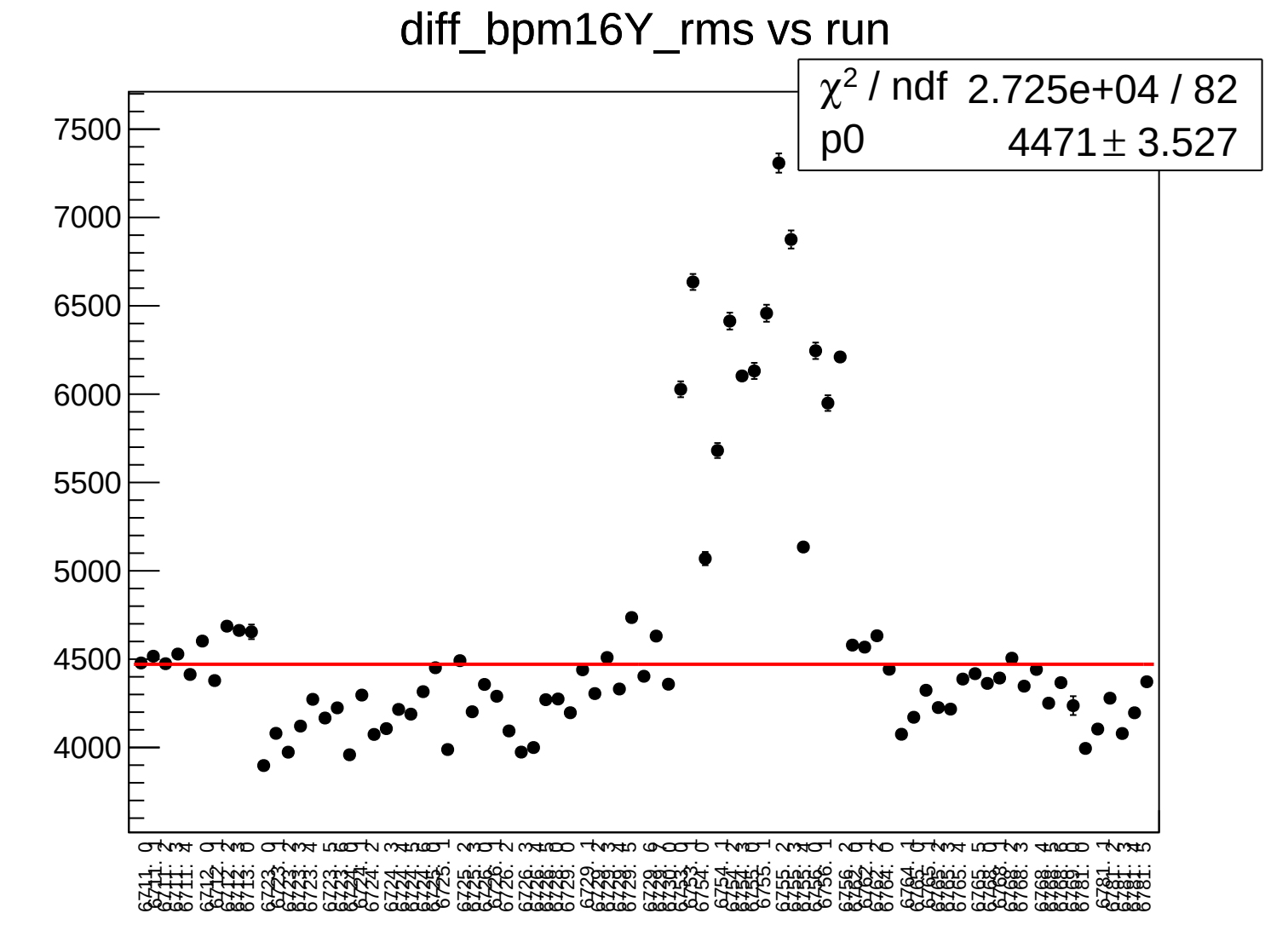

diff_bpm16X_mean vs run
χ² / ndf 92.14 / 82
p0 −3.845 ± 6.982
pull
Entries 83
Mean 73.88
Std Dev 76.16

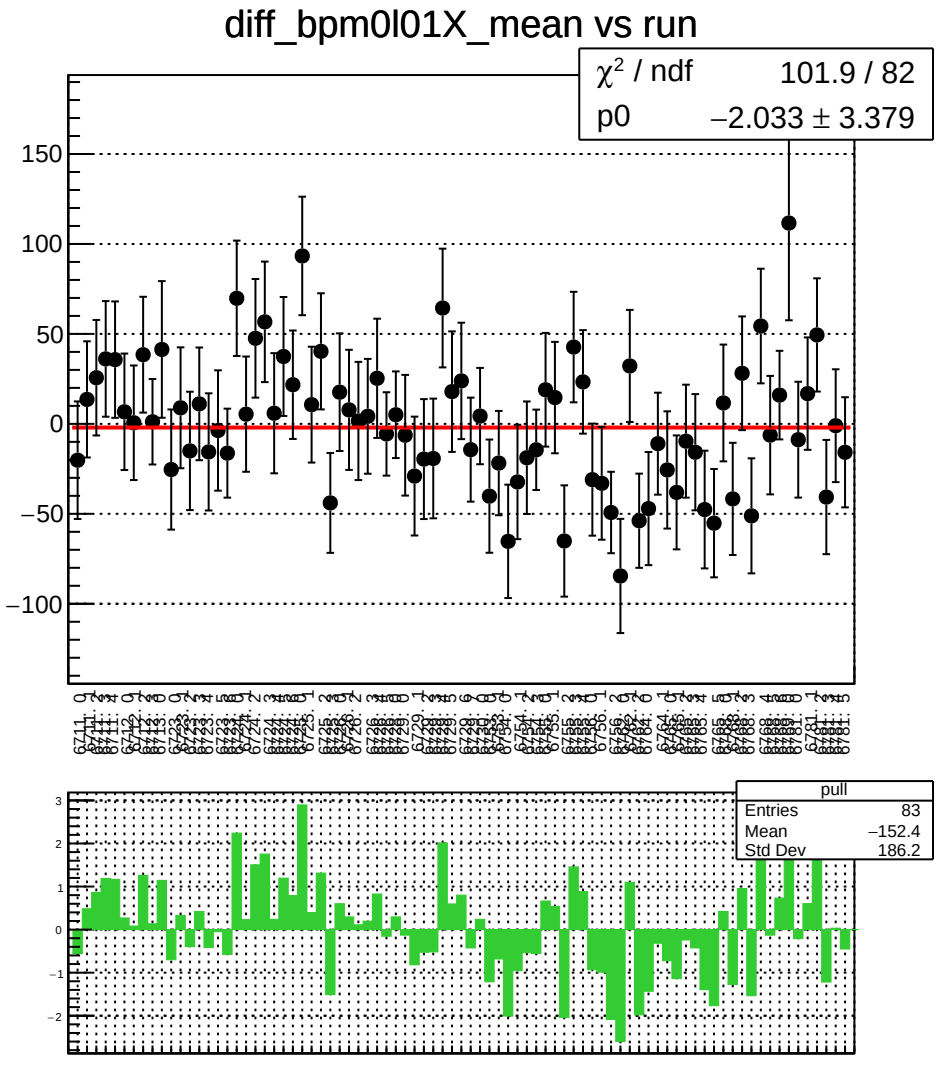

pull1D
Entries 83
Mean −0.01838
Std Dev 1.053

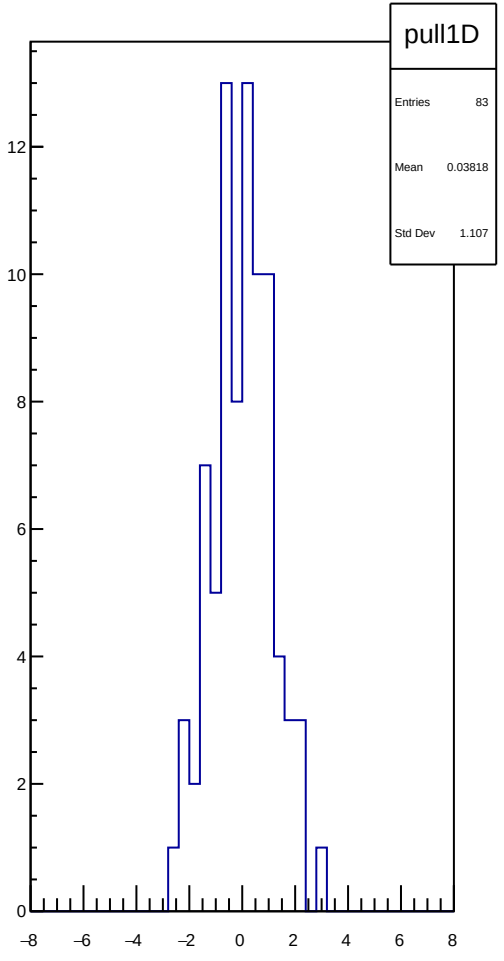

diff_bpm16X_rms vs run
χ² / ndf 8775 / 82
p0 6293 ± 4.937
8000
7500
7000
6500
6000
5500

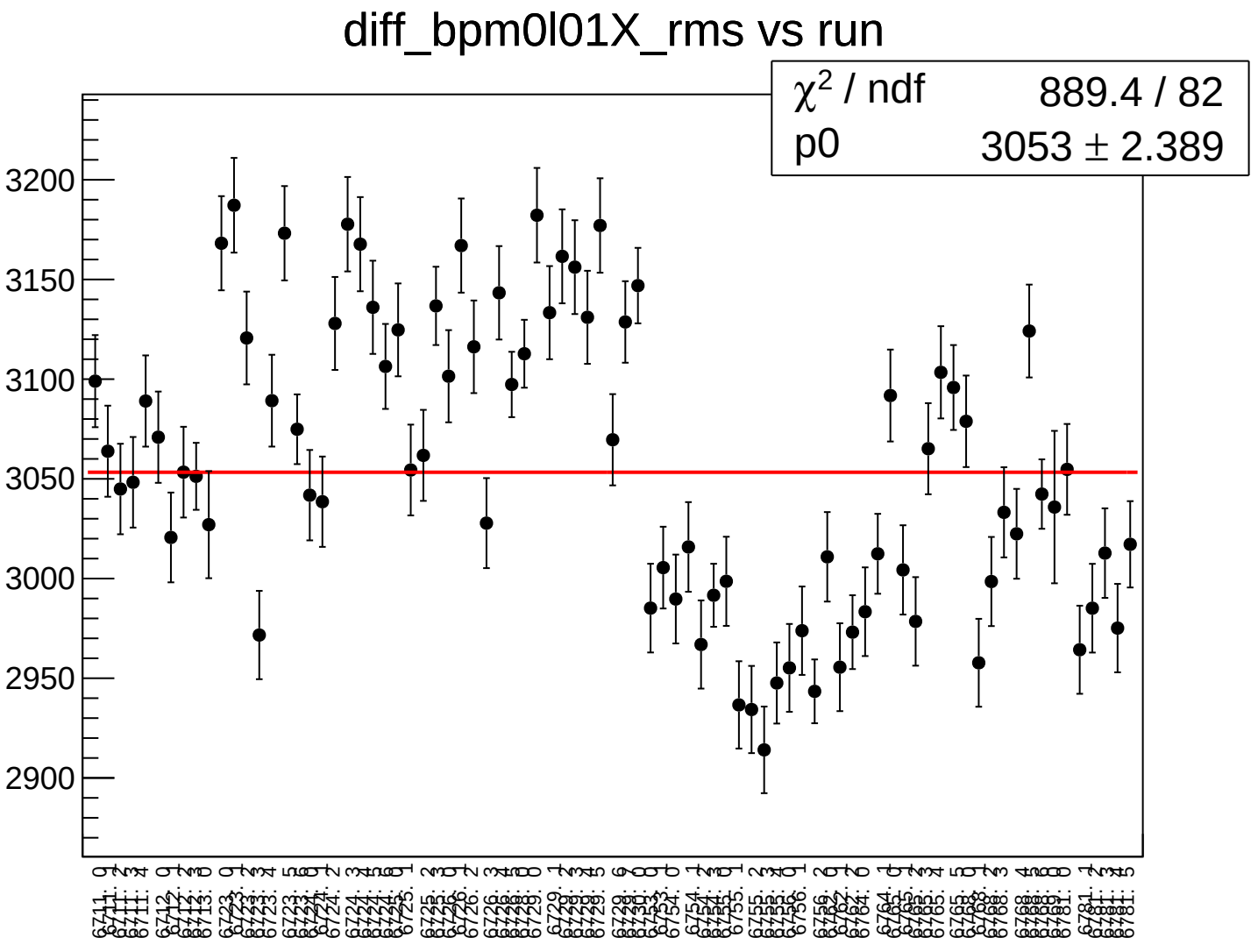

diff_bpm16Y_mean vs run
χ² / ndf 84.02 / 82
p0 −2.81 ± 4.989
pull
Entries 83
Mean −136.9
Std Dev 197.6

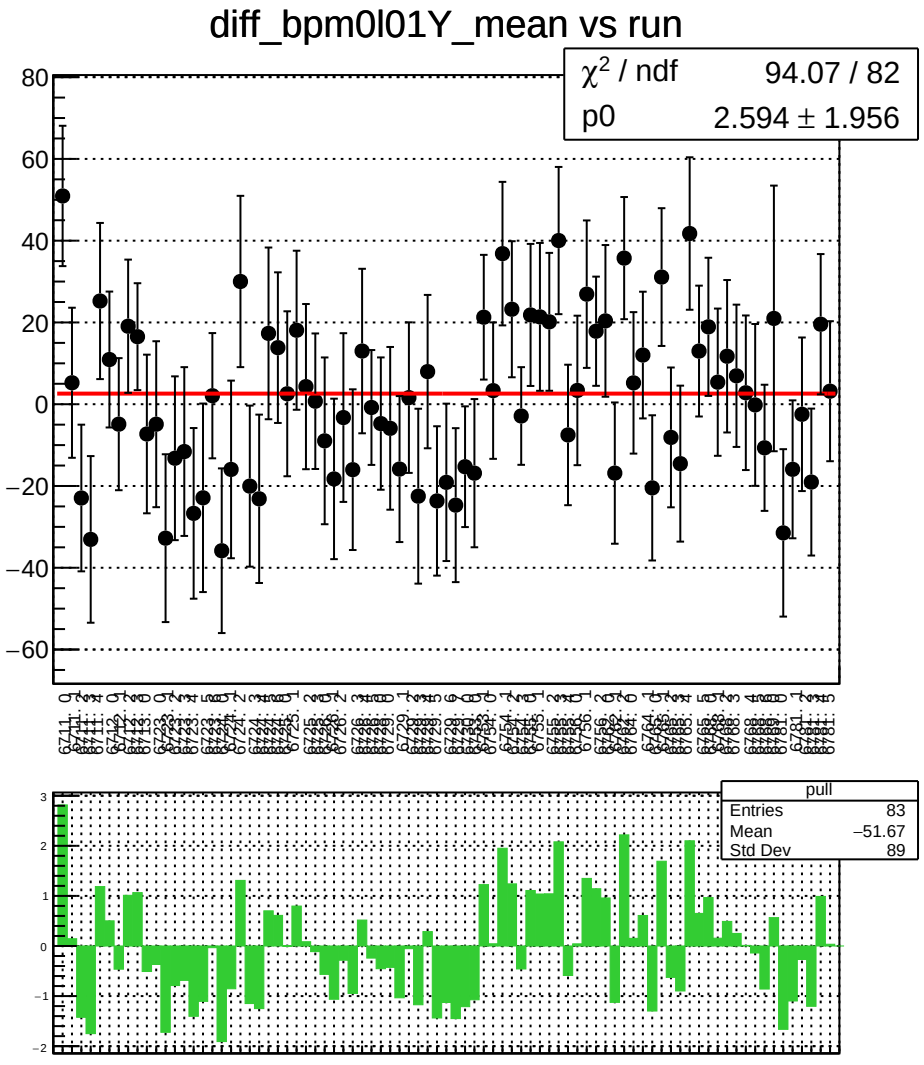

pull1D
Entries 83
Mean 0.009863
Std Dev 1.006

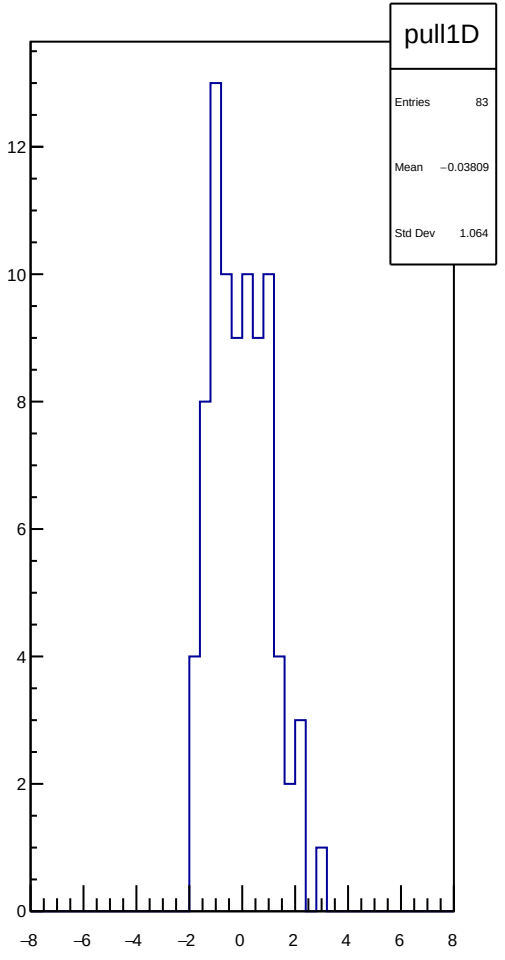

diff_bpm16Y_rms vs run
χ² / ndf 2.725e+04 / 82
p0 4471 ± 3.527
7500
7000
6500
6000
5500
5000
4500
4000

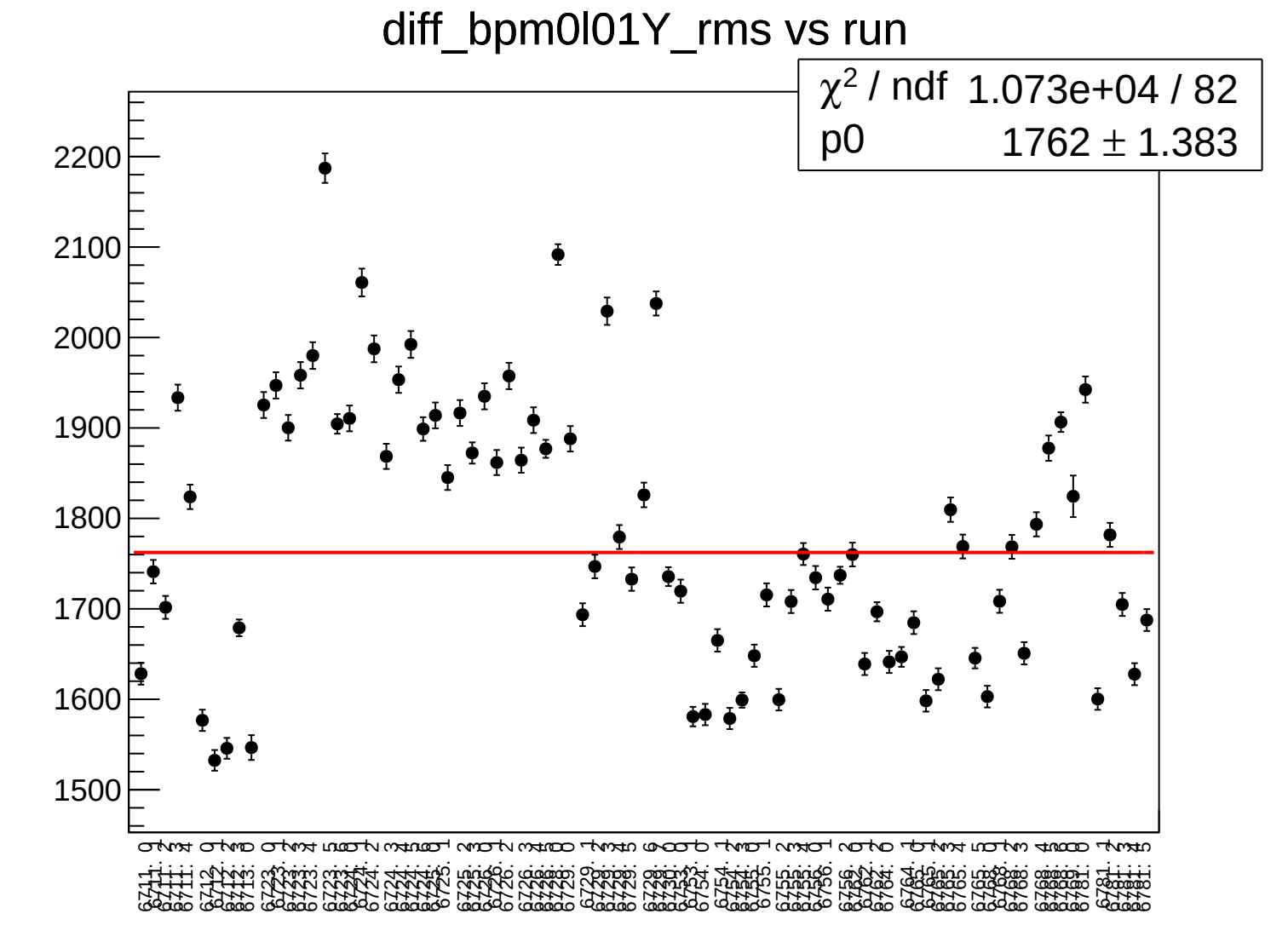

diff_bpm0l01X_mean vs run
χ² / ndf 101.9 / 82
p0 −2.033 ± 3.379
150
100
50
0
−50
−100
pull
Entries 83
Mean −152.4
Std Dev 186.2
3
2
1
0
−1
−2

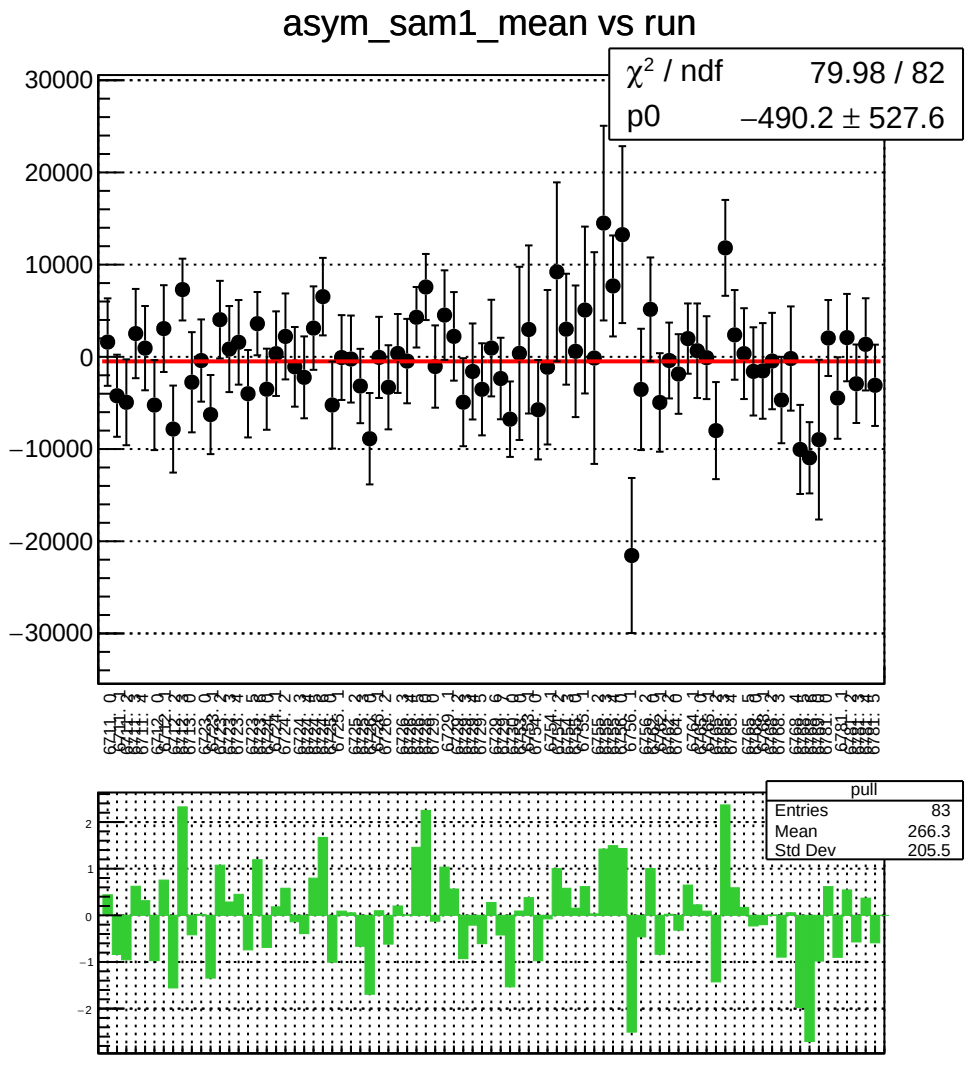

pull1D
Entries 83
Mean 0.03818
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

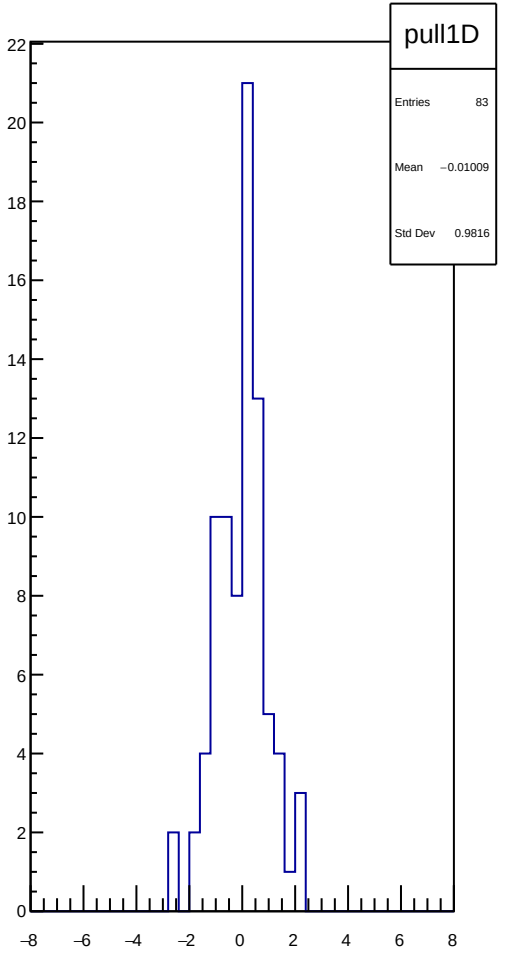

diff_bpm0l01X_rms vs run
χ² / ndf 889.4 / 82
p0 3053 ± 2.389
3200
3150
3100
3050
3000
2950
2900

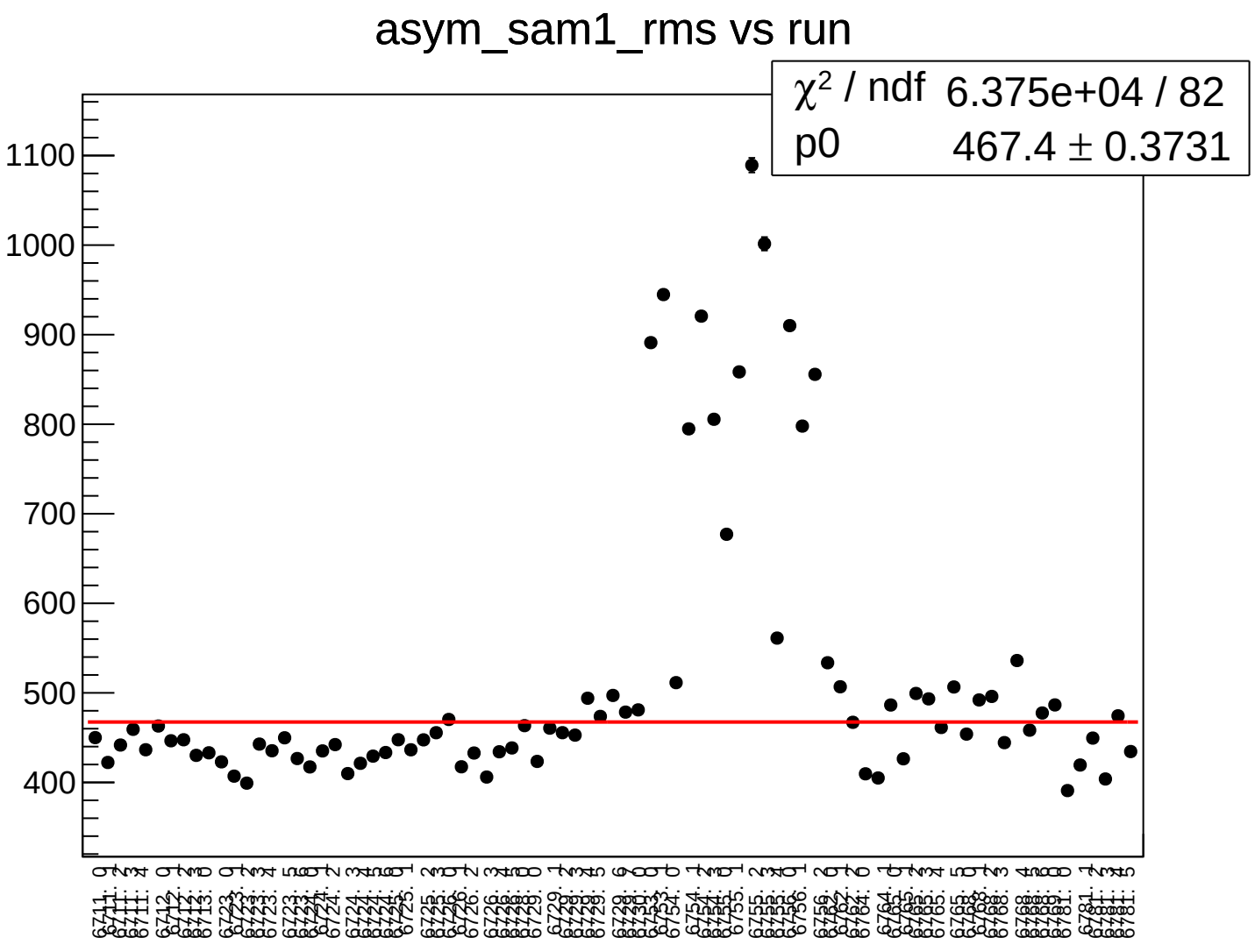

diff_bpm0l01Y_mean vs run
χ^2 / ndf 94.07 / 82
p0 2.594 ± 1.956
pull
Entries 83
Mean −51.67
Std Dev 89

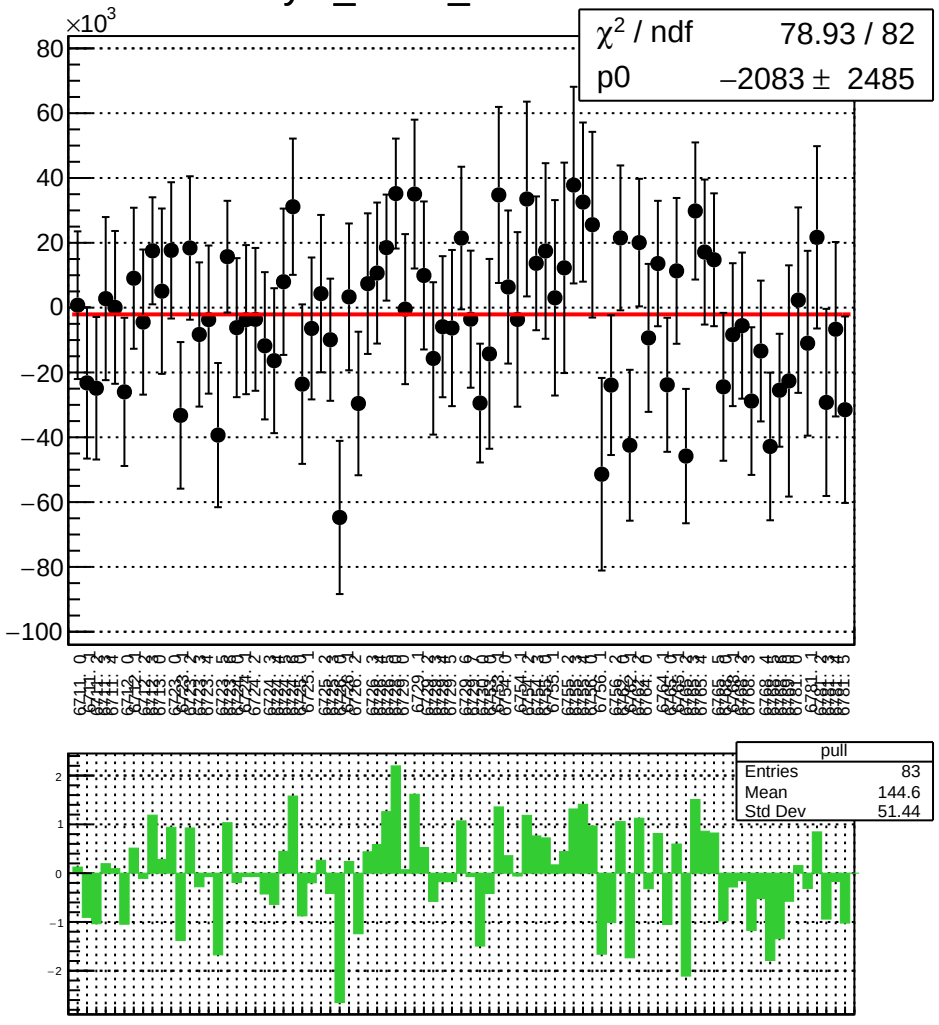

pull1D
Entries 83
Mean −0.03809
Std Dev 1.064

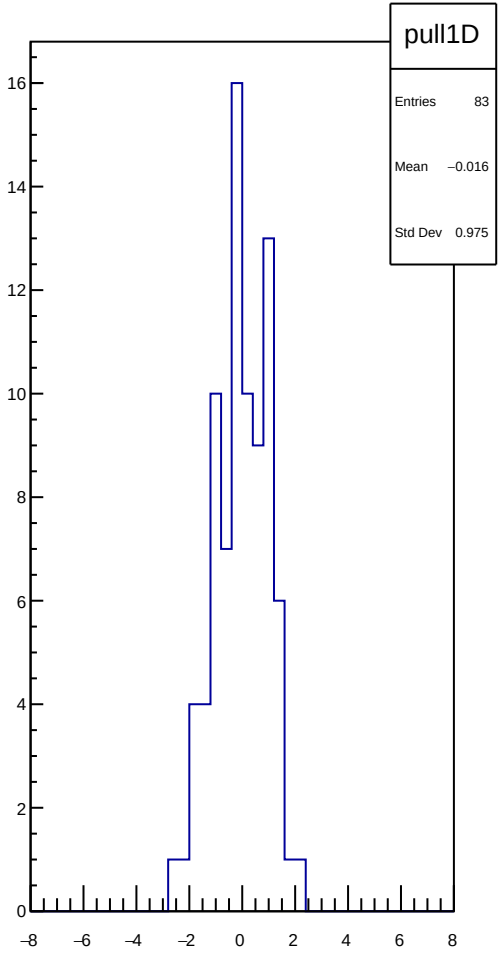

diff_bpm0l01Y_rms vs run
χ² / ndf 1.073e+04 / 82
p0 1762 ± 1.383
2200
2100
2000
1900
1800
1700
1600
1500

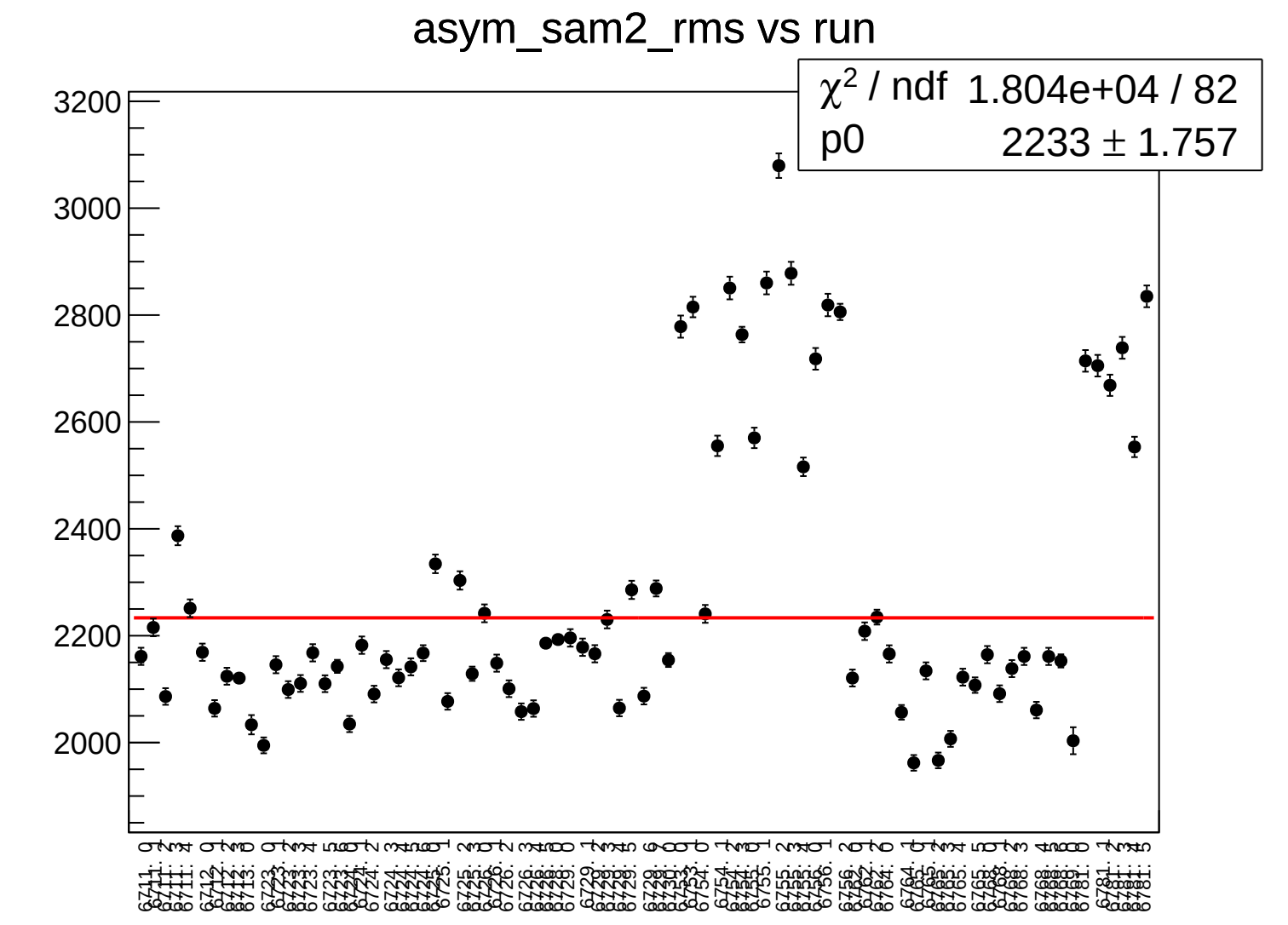

asym_sam1_mean vs run
χ² / ndf 79.98 / 82
p0 −490.2 ± 527.6
pull
Entries 83
Mean 266.3
Std Dev 205.5

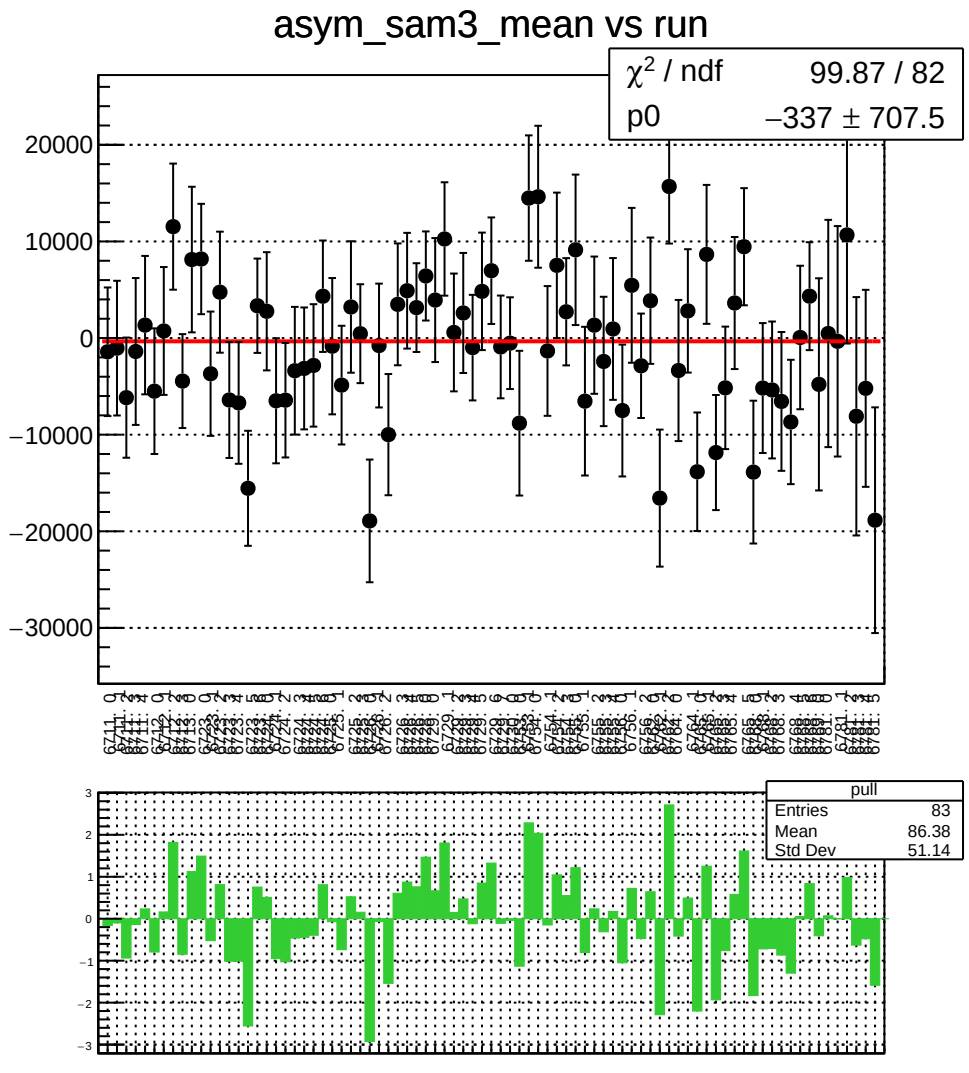

pull1D
Entries 83
Mean −0.01009
Std Dev 0.9816

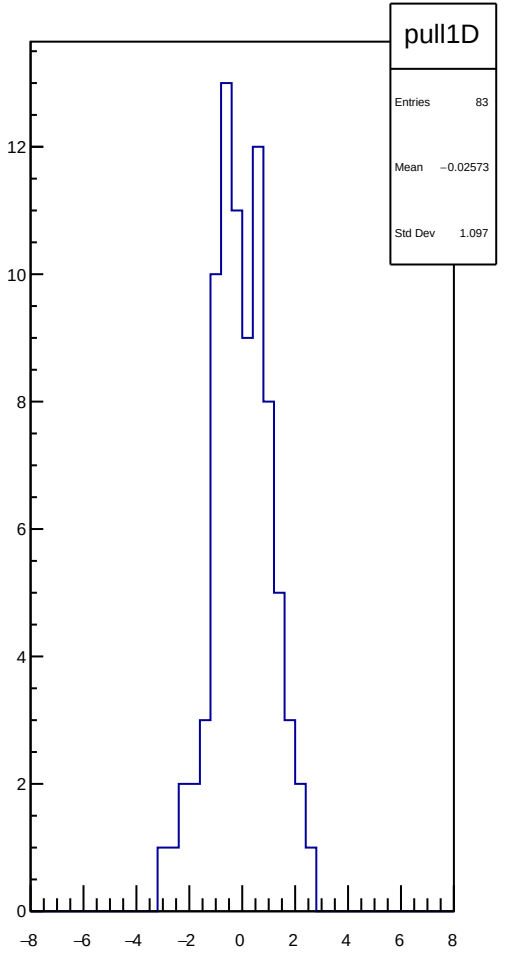

asym_sam1_rms vs run
χ² / ndf 6.375e+04 / 82
p0 467.4 ± 0.3731
1100
1000
900
800
700
600
500
400

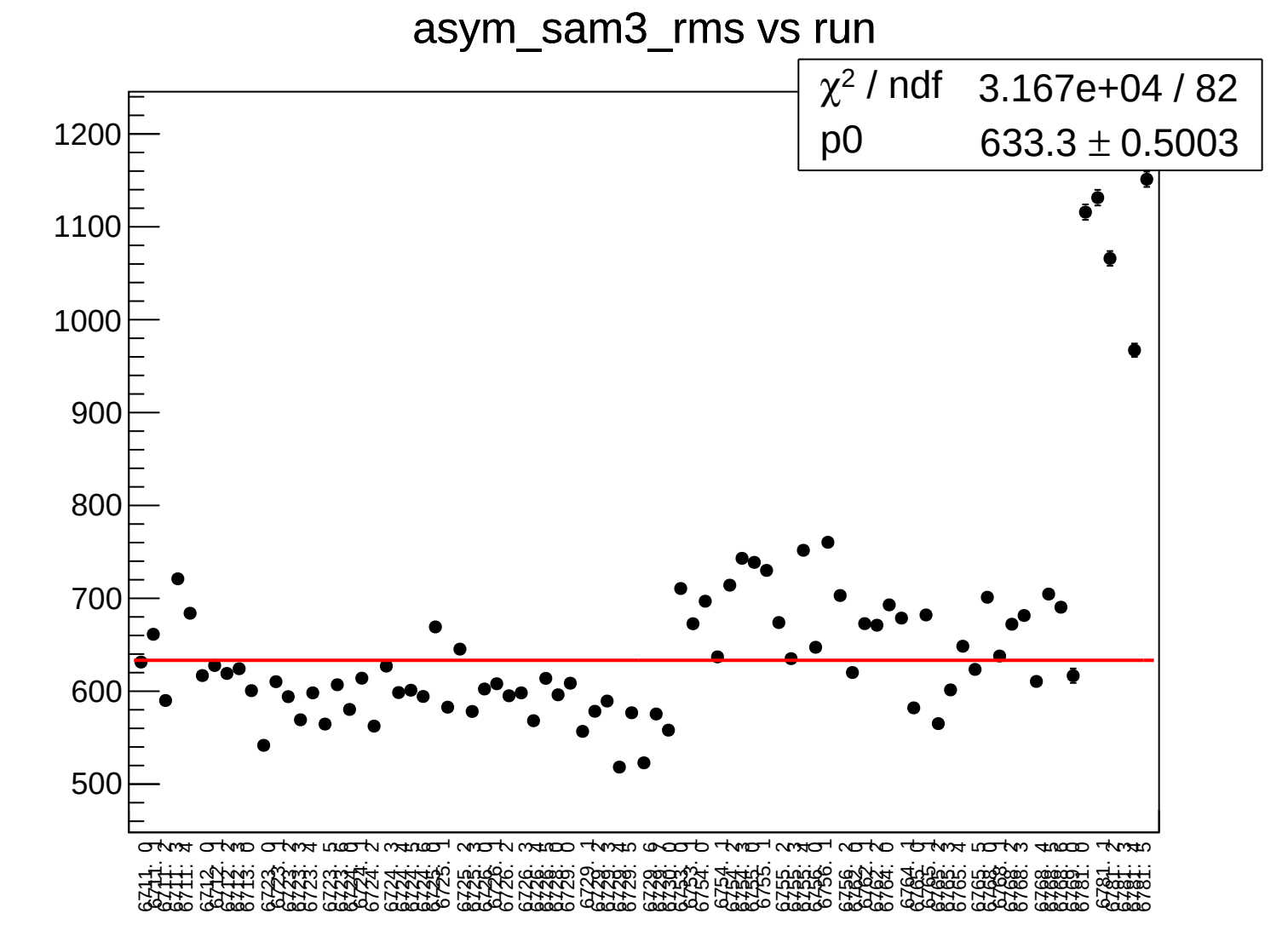

asym_sam2_mean vs run
×10^3
χ² / ndf 78.93 / 82
p0 −2083 ± 2485
pull
Entries 83
Mean 144.6
Std Dev 51.44

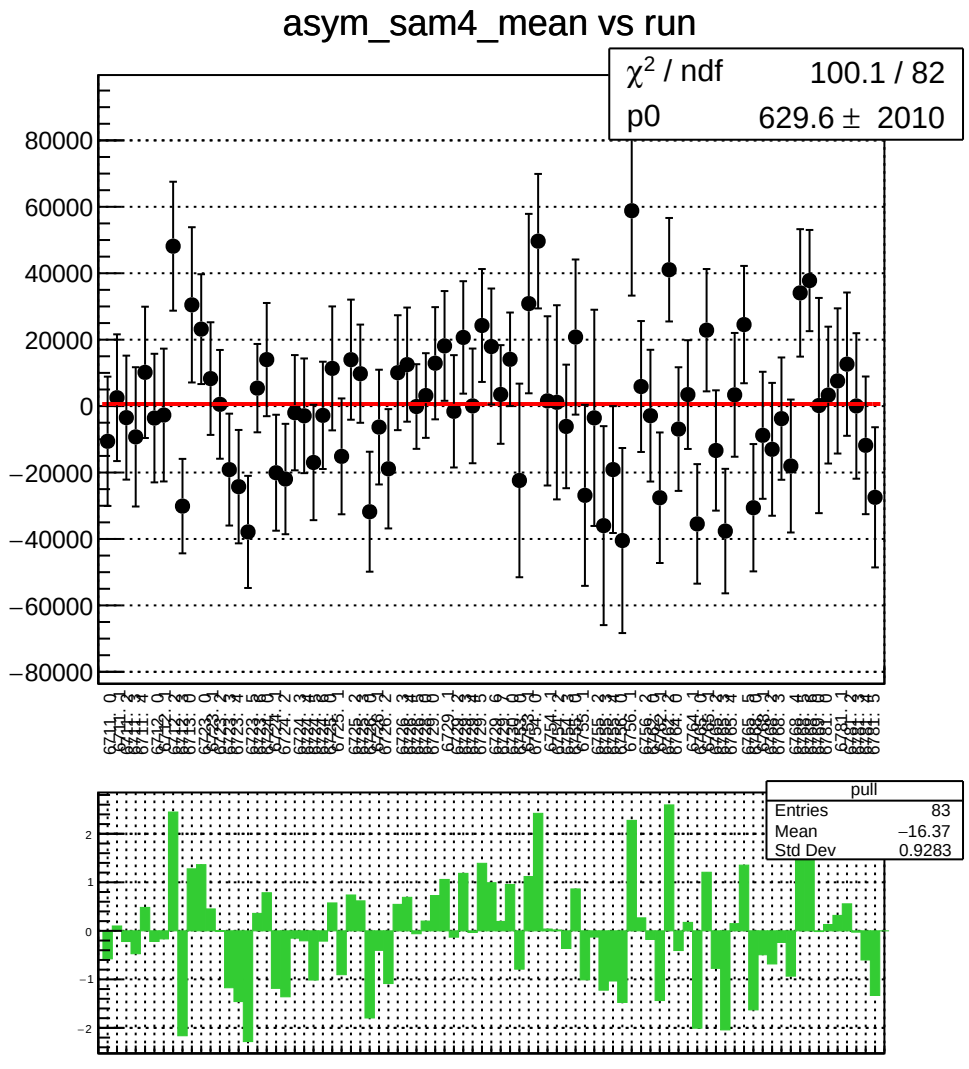

pull1D
Entries 83
Mean −0.016
Std Dev 0.975

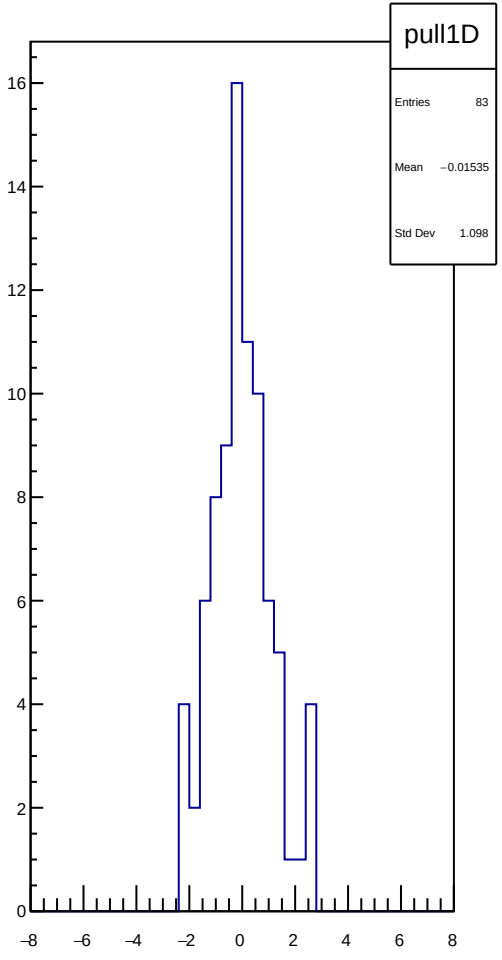

asym_sam2_rms vs run
χ² / ndf 1.804e+04 / 82
p0 2233 ± 1.757
3200
3000
2800
2600
2400
2200
2000

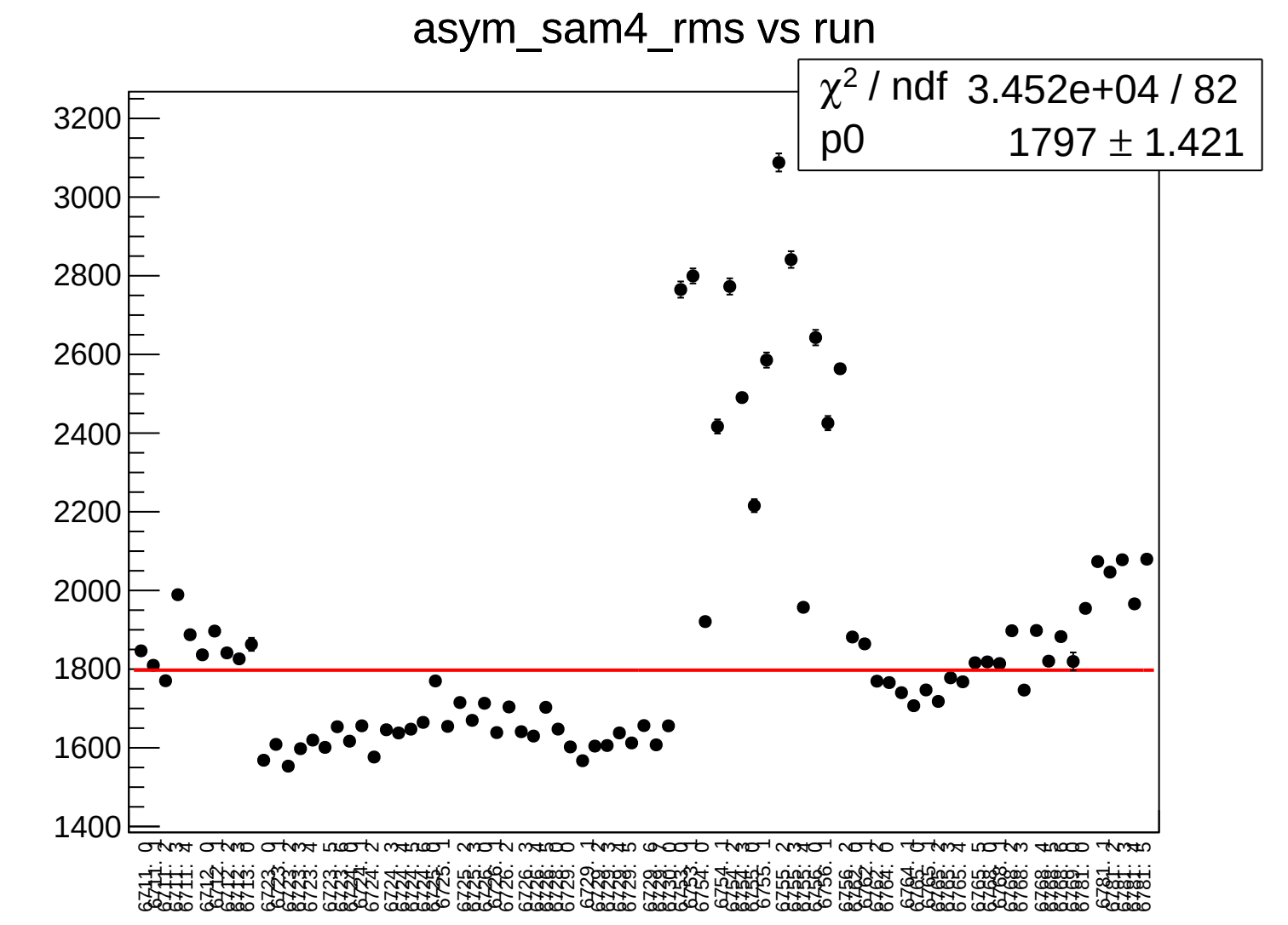

asym_sam3_mean vs run
χ² / ndf 99.87 / 82
p0 −337 ± 707.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean 86.38
Std Dev 51.14
3
2
1
0
−1
−2
−3

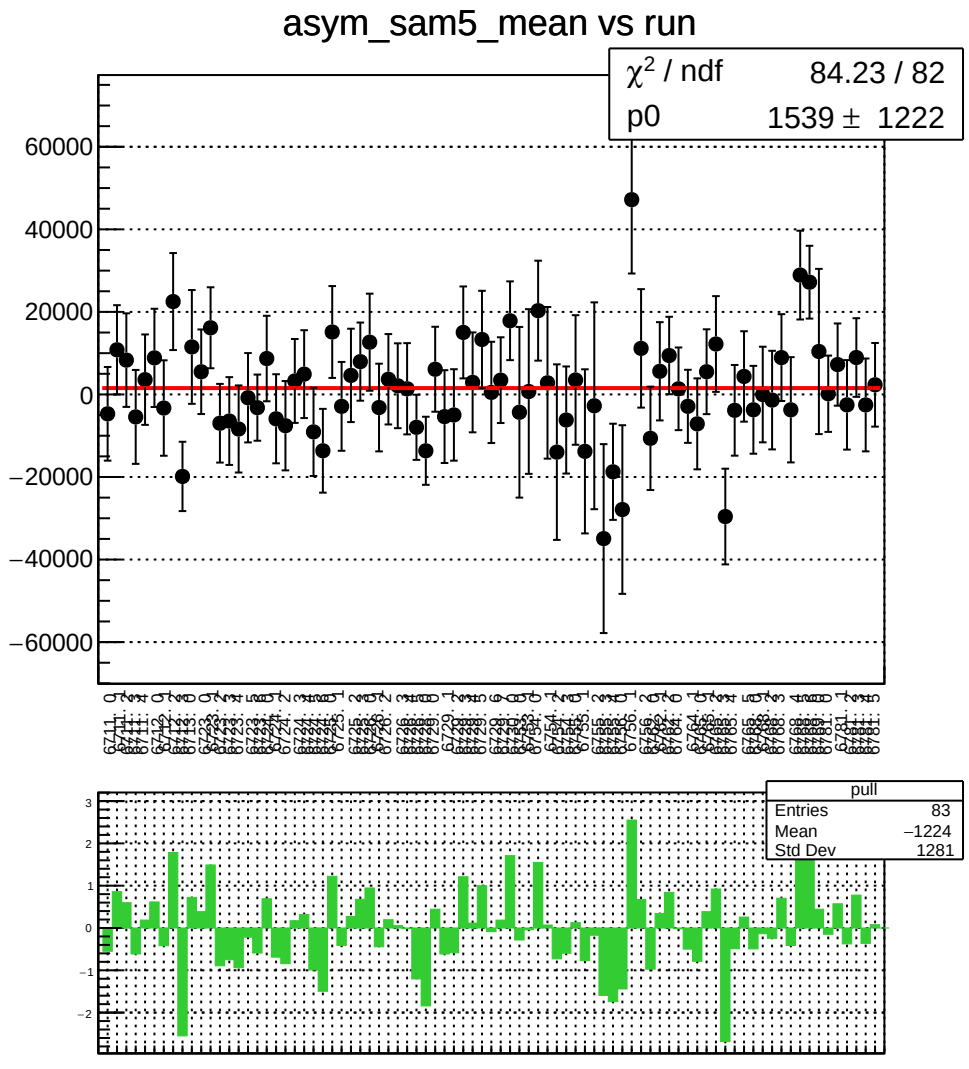

pull1D
Entries 83
Mean −0.02573
Std Dev 1.097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

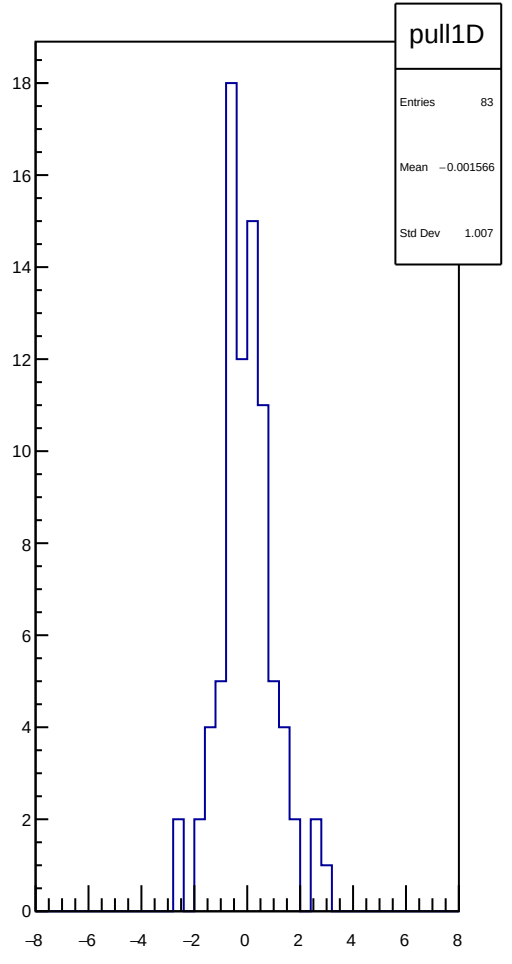

asym_sam3_rms vs run
χ² / ndf 3.167e+04 / 82
p0 633.3 ± 0.5003
1200
1100
1000
900
800
700
600
500

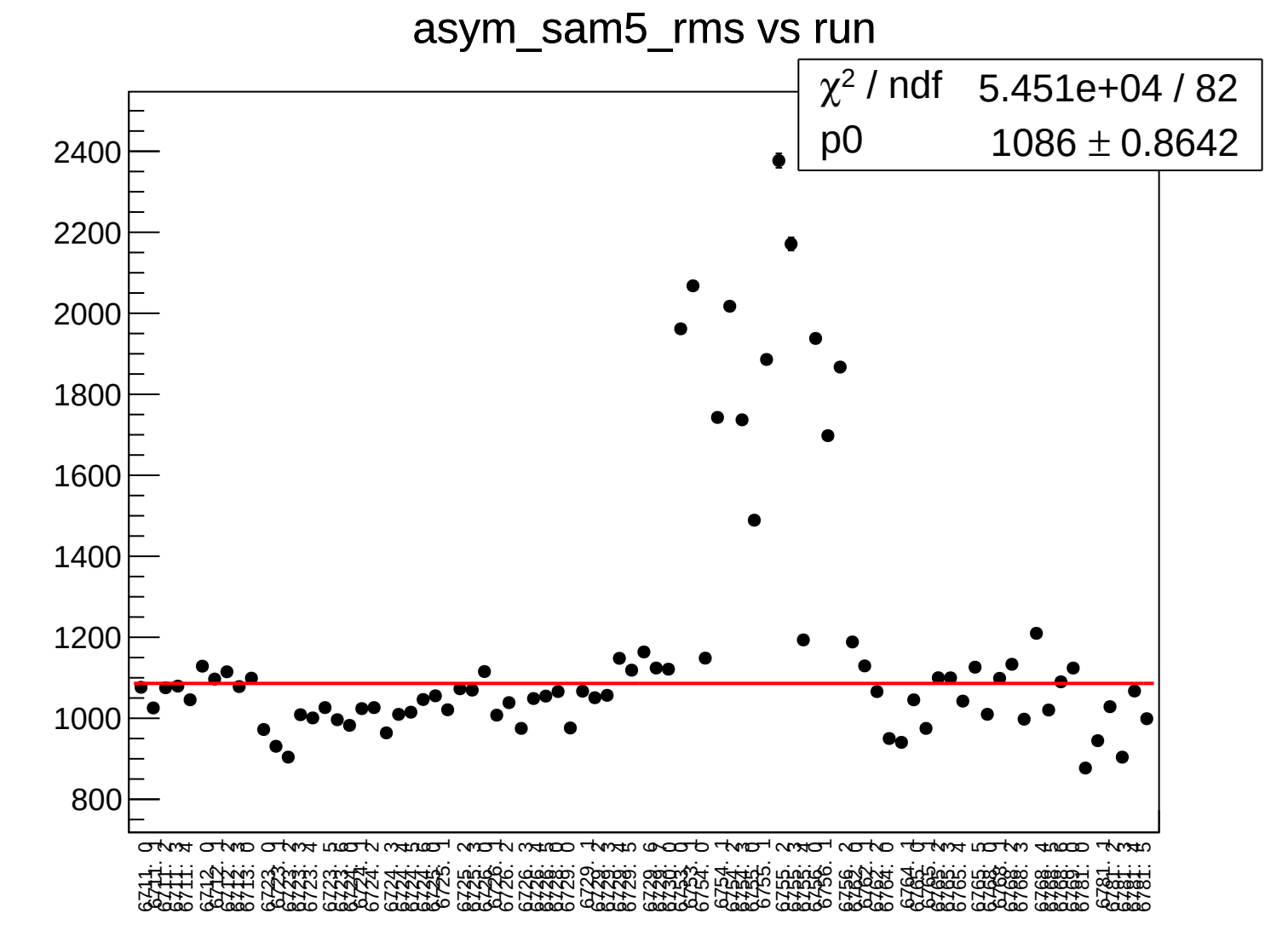

asym_sam4_mean vs run
χ² / ndf 100.1 / 82
p0 629.6 ± 2010
pull
Entries 83
Mean −16.37
Std Dev 0.9283

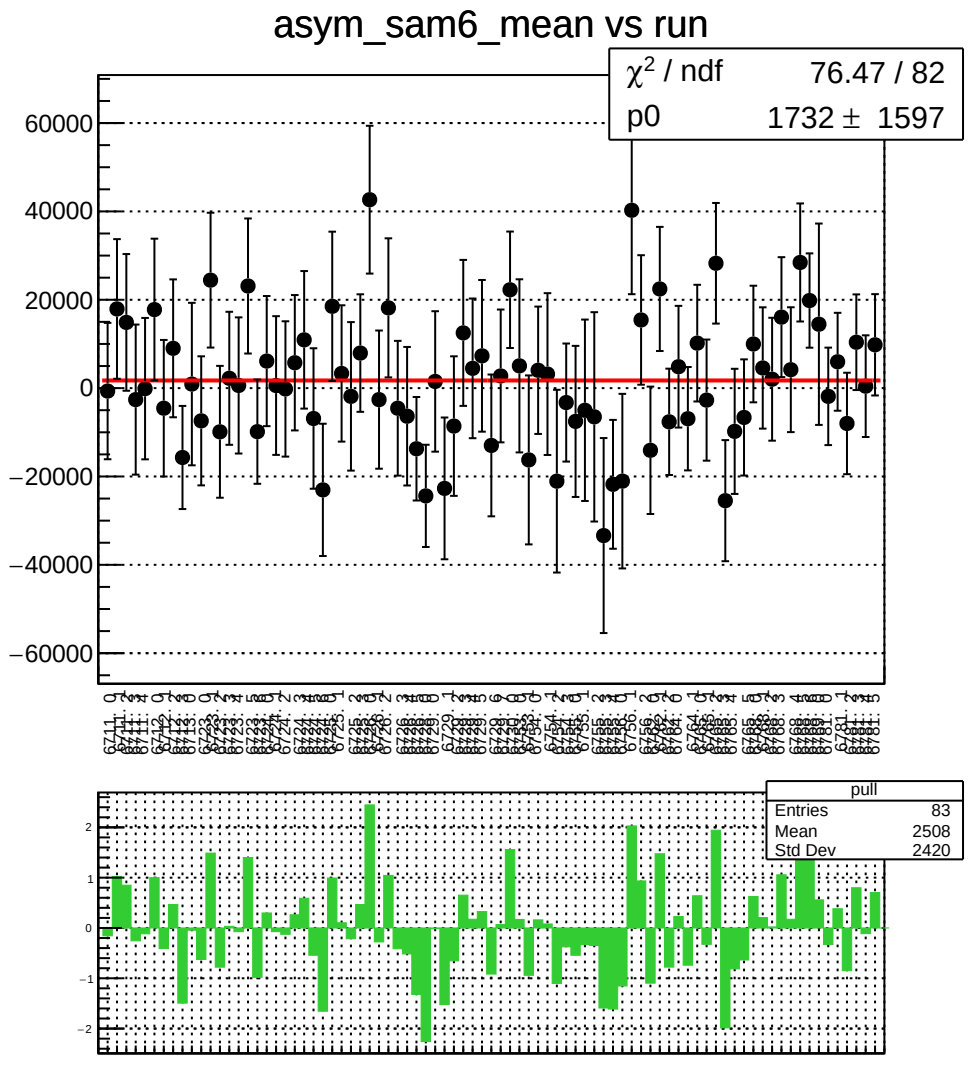

pull1D
Entries 83
Mean −0.01535
Std Dev 1.098

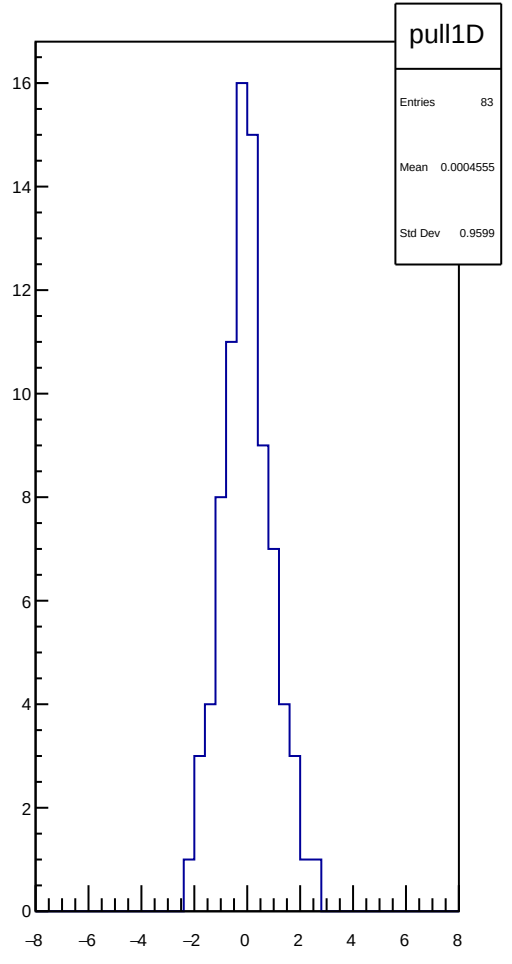

asym_sam4_rms vs run
χ² / ndf 3.452e+04 / 82
p0 1797 ± 1.421
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

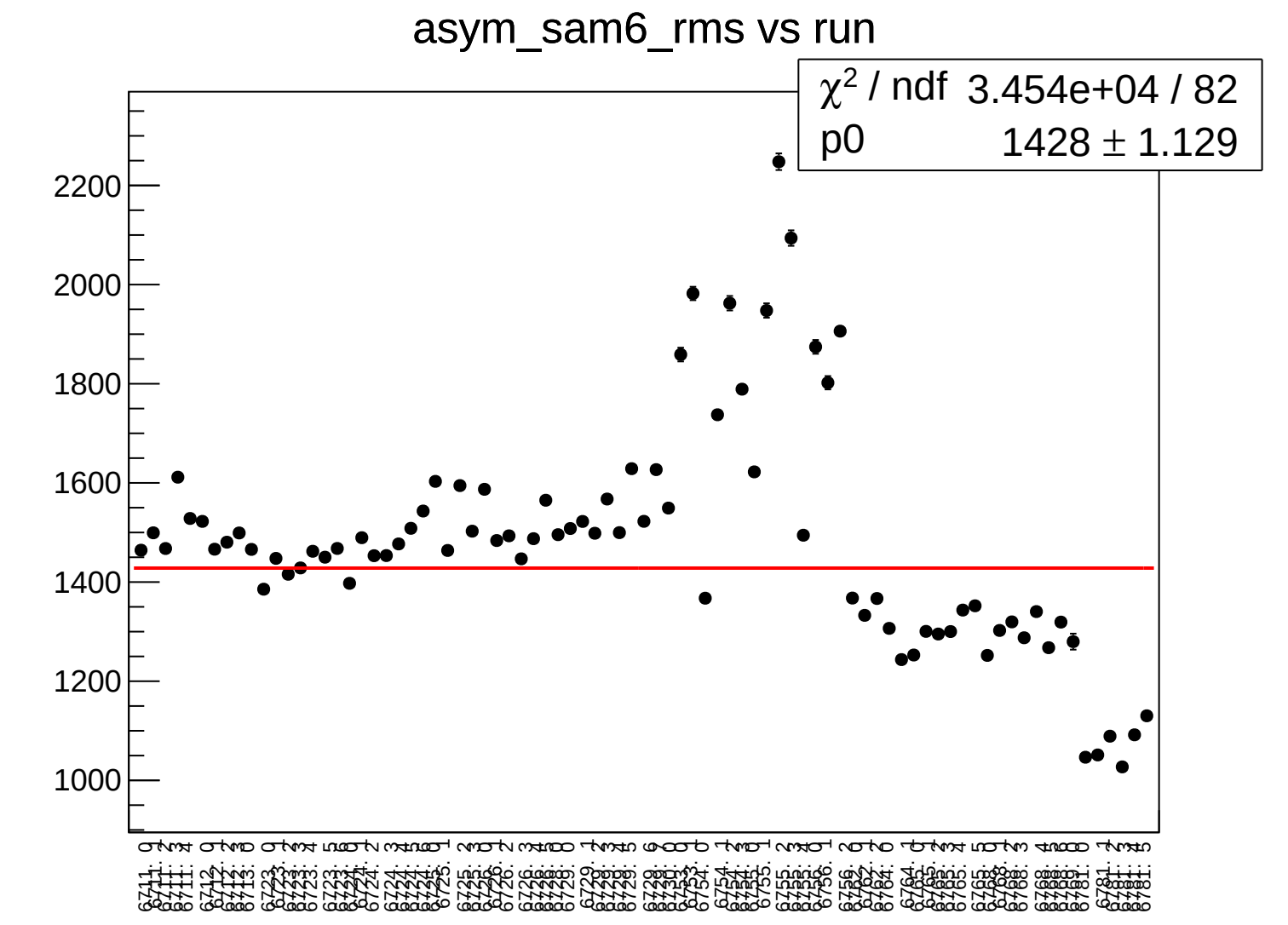

asym_sam5_mean vs run
χ² / ndf 84.23 / 82
p0 1539 ± 1222
pull
Entries 83
Mean −1224
Std Dev 1281

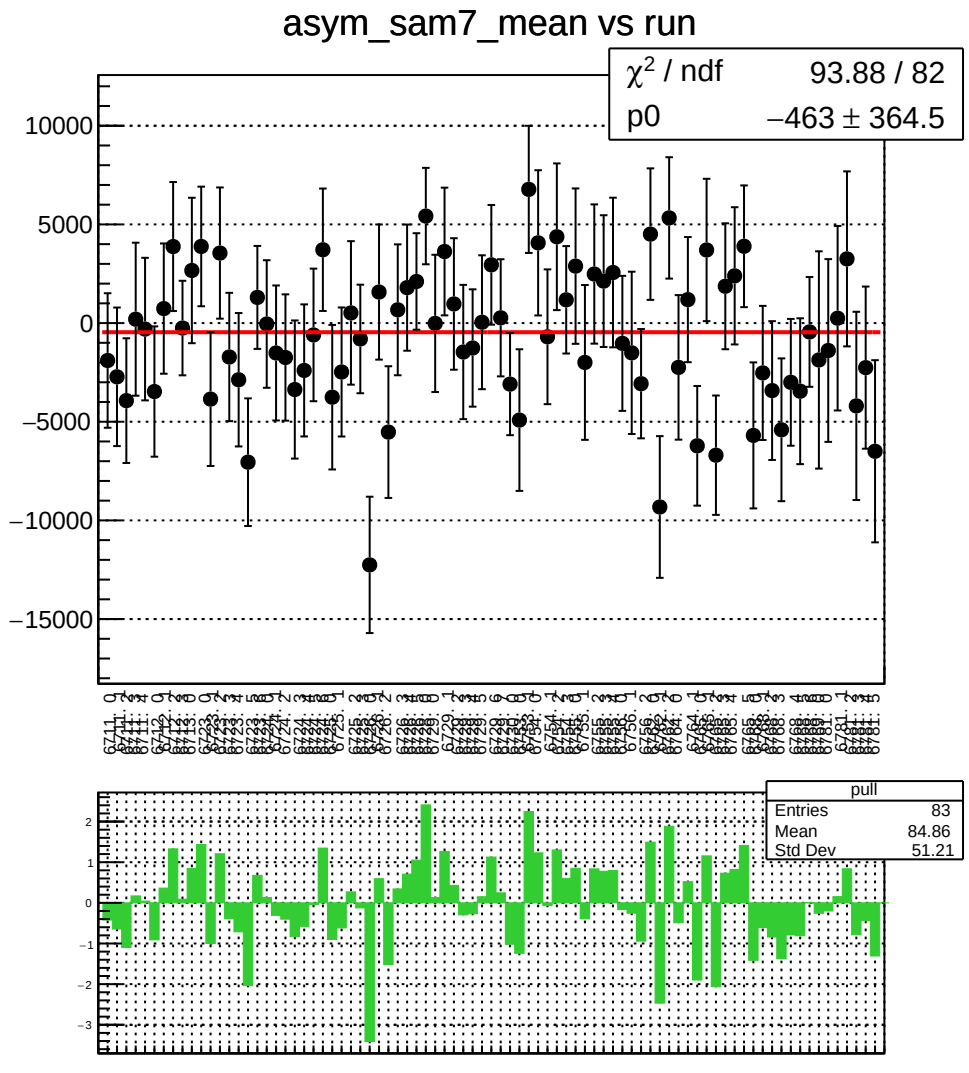

pull1D
Entries 83
Mean −0.001566
Std Dev 1.007

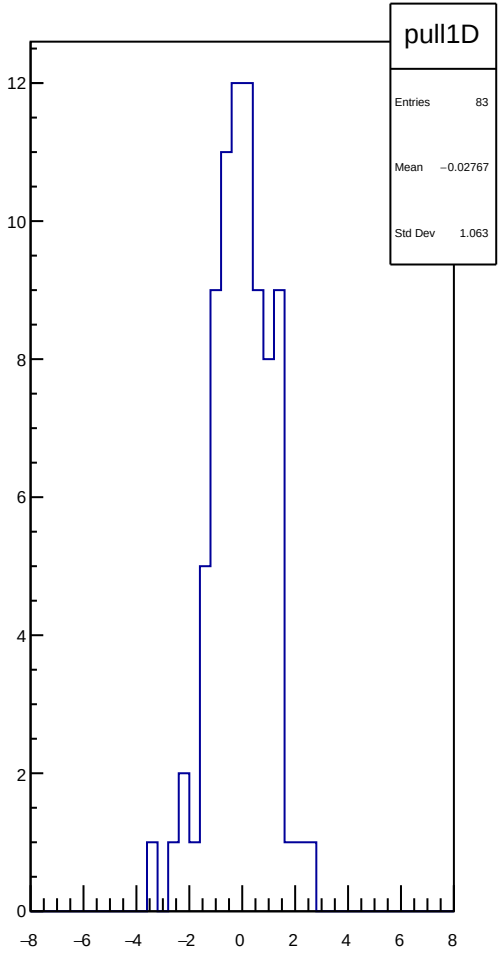

asym_sam5_rms vs run
χ² / ndf 5.451e+04 / 82
p0 1086 ± 0.8642
2400
2200
2000
1800
1600
1400
1200
1000
800

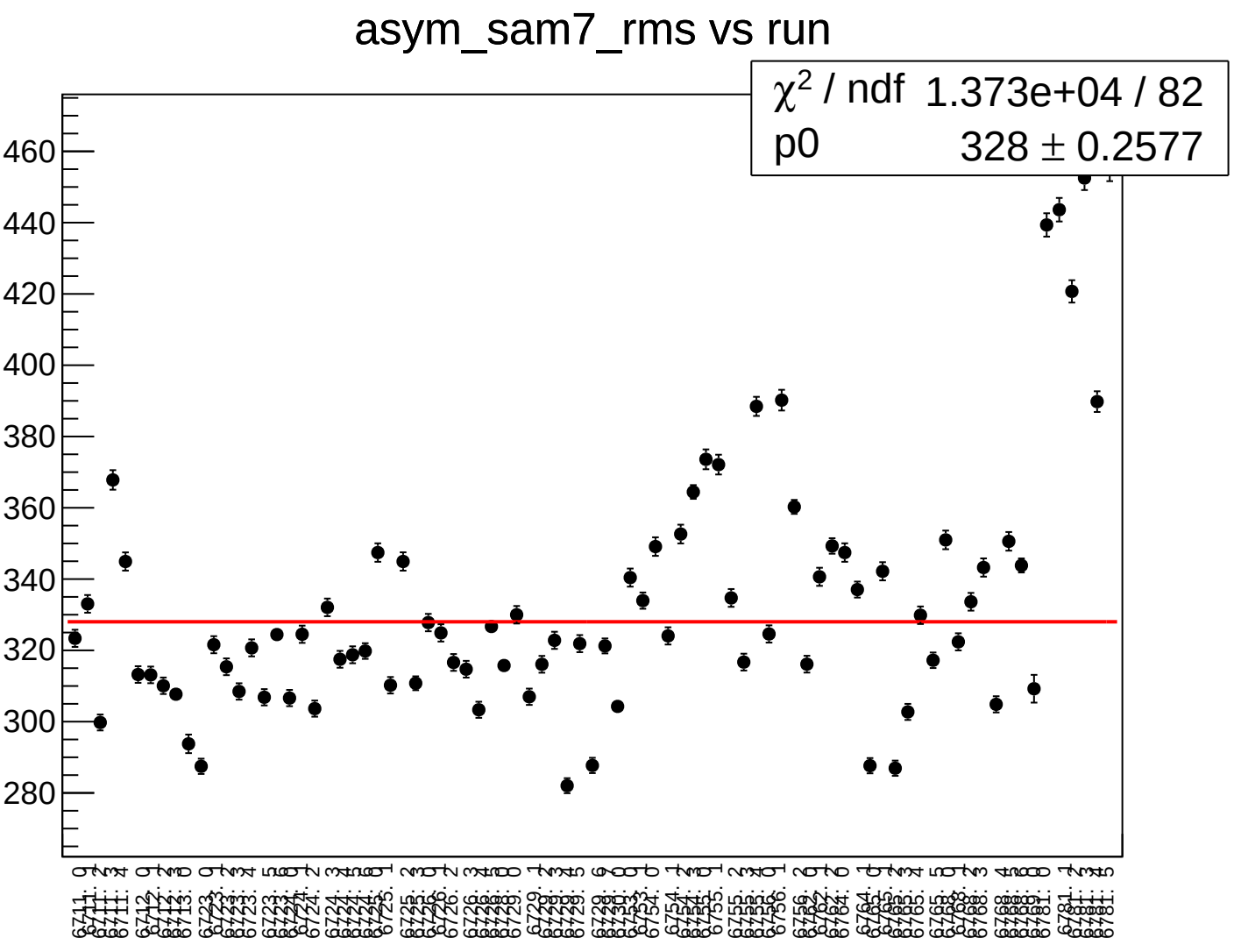

asym_sam6_mean vs run
χ² / ndf 76.47 / 82
p0 1732 ± 1597
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 2508
Std Dev 2420
2
1
0
−1
−2

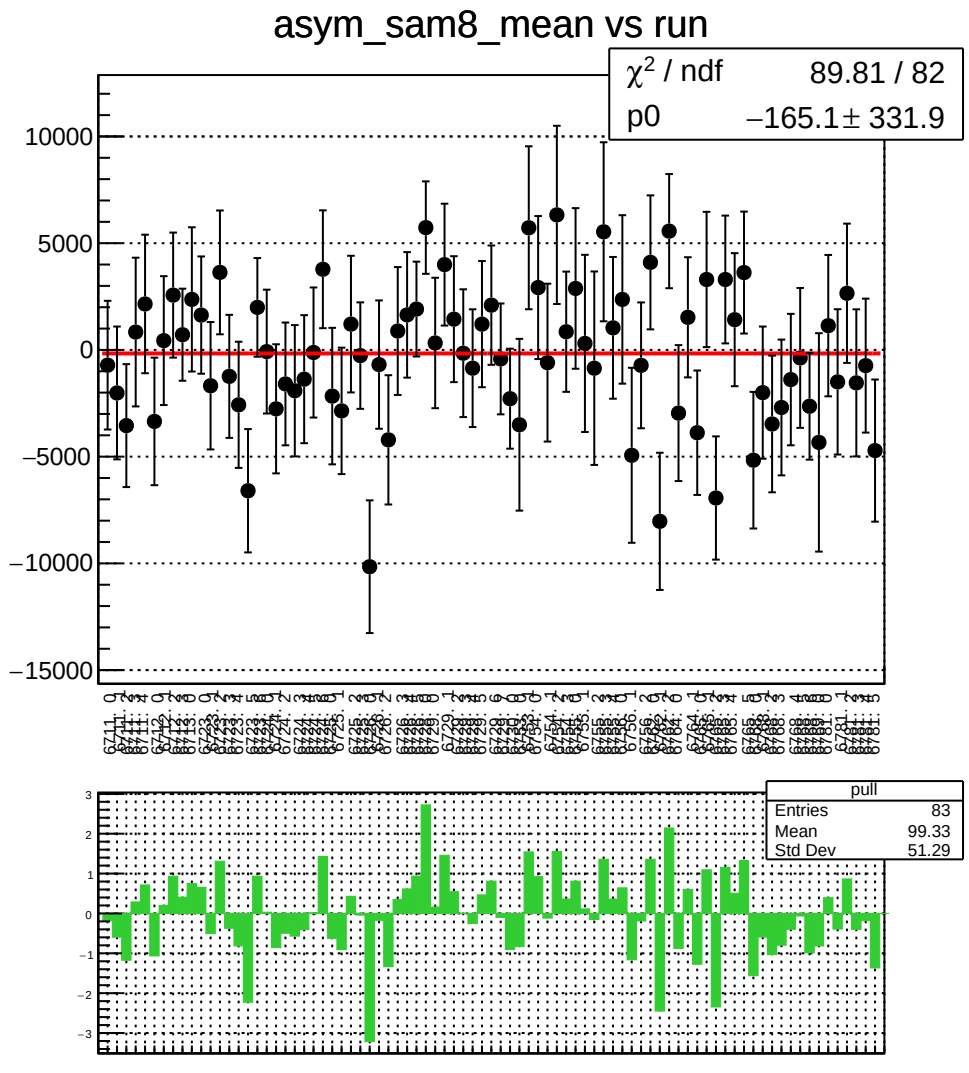

pull1D
Entries 83
Mean 0.0004555
Std Dev 0.9599
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

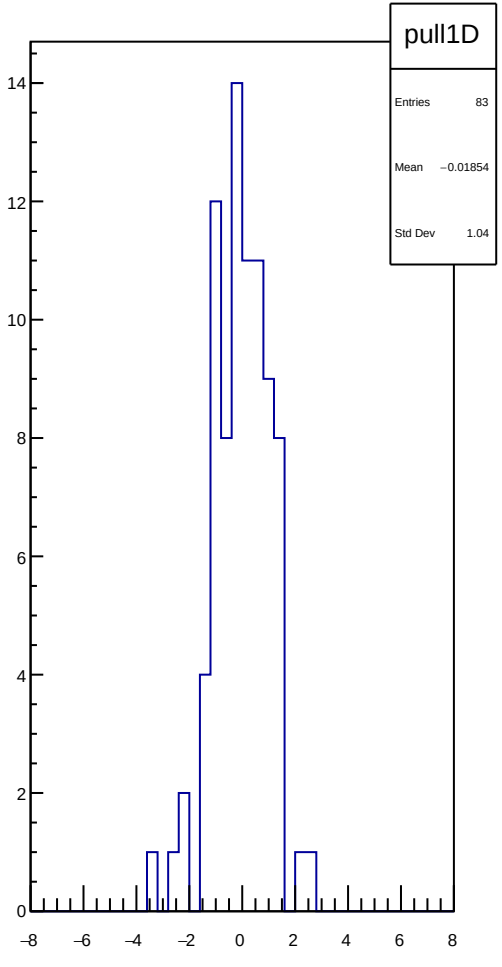

asym_sam6_rms vs run
χ² / ndf 3.454e+04 / 82
p0 1428 ± 1.129
2200
2000
1800
1600
1400
1200
1000

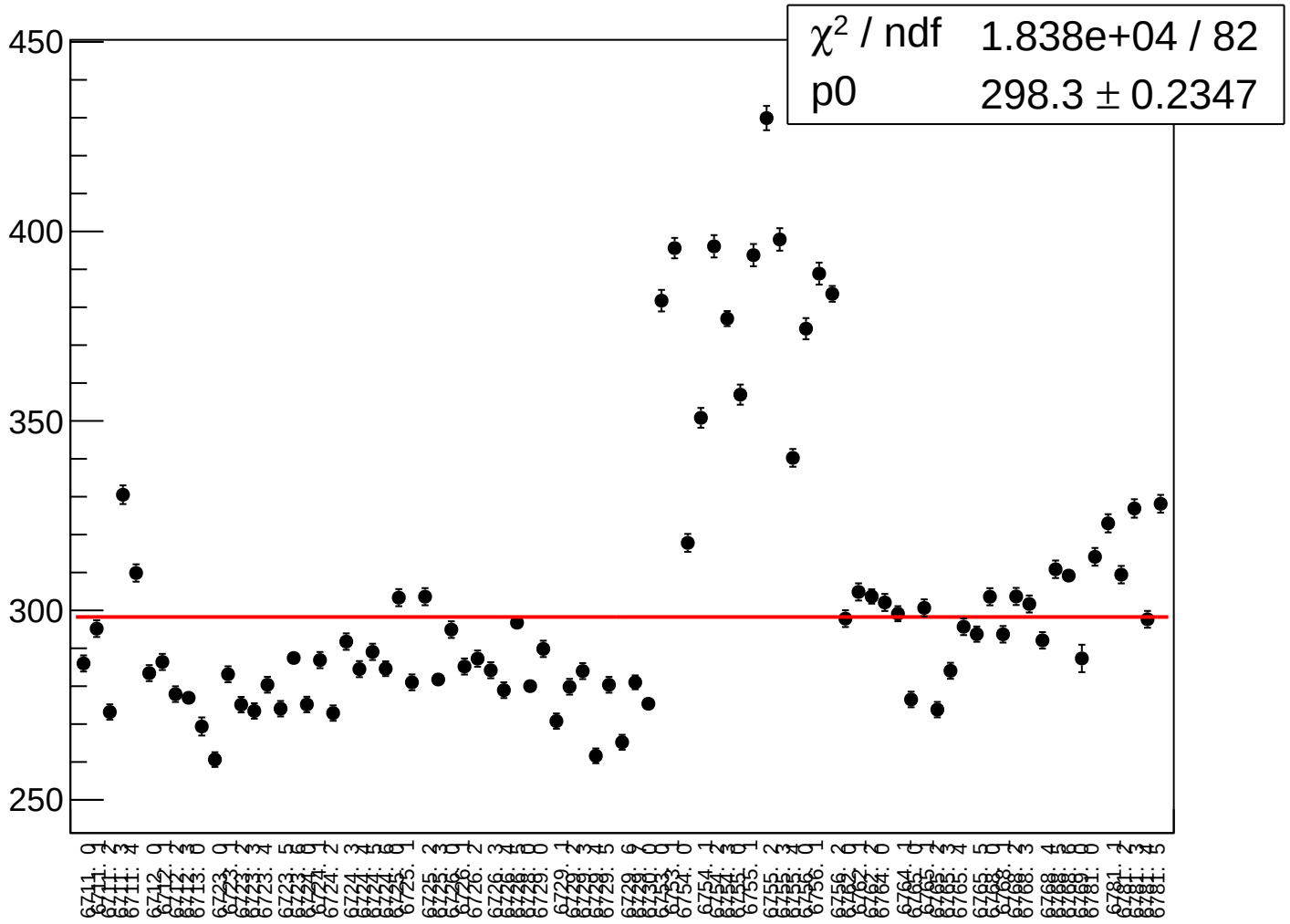

asym_sam7_mean vs run
χ² / ndf 93.88 / 82
p0 −463 ± 364.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 84.86
Std Dev 51.21
2
1
0
−1
−2
−3

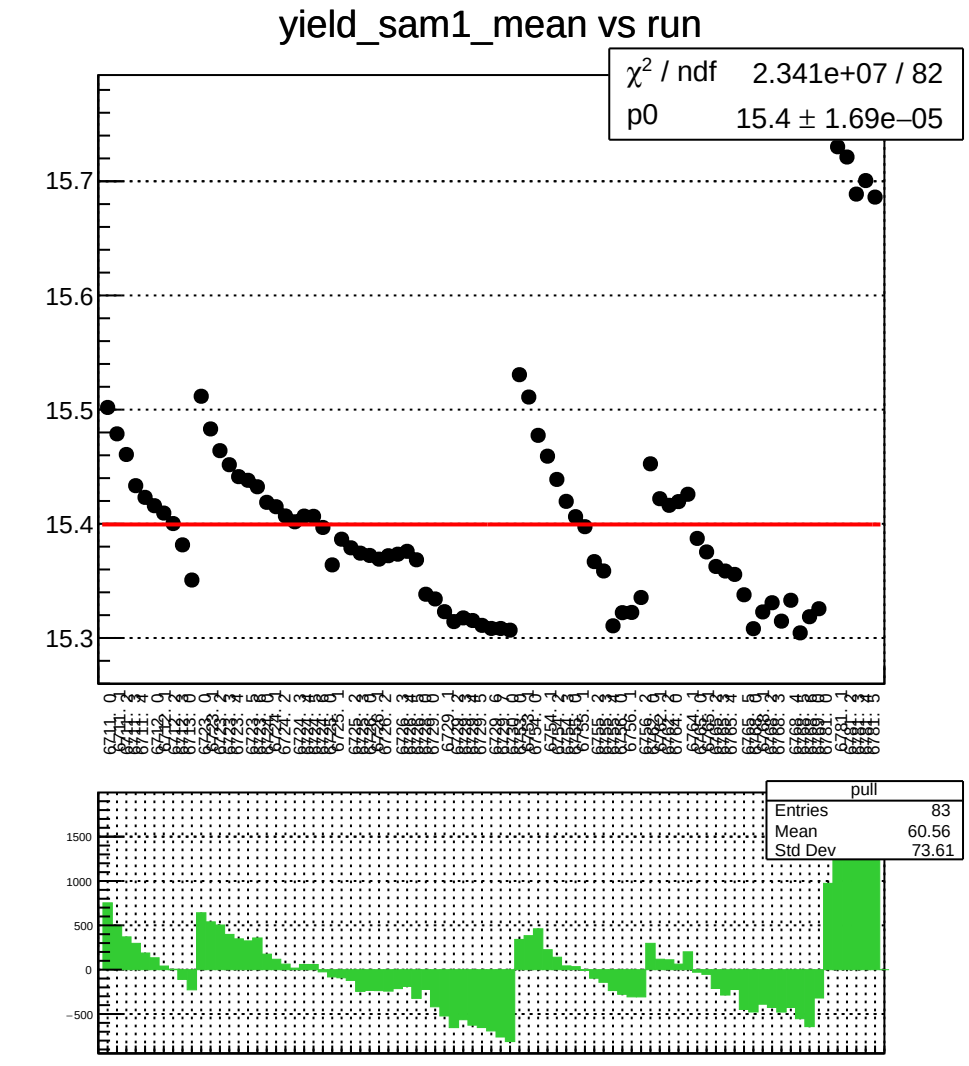

pull1D
Entries 83
Mean −0.02767
Std Dev 1.063
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

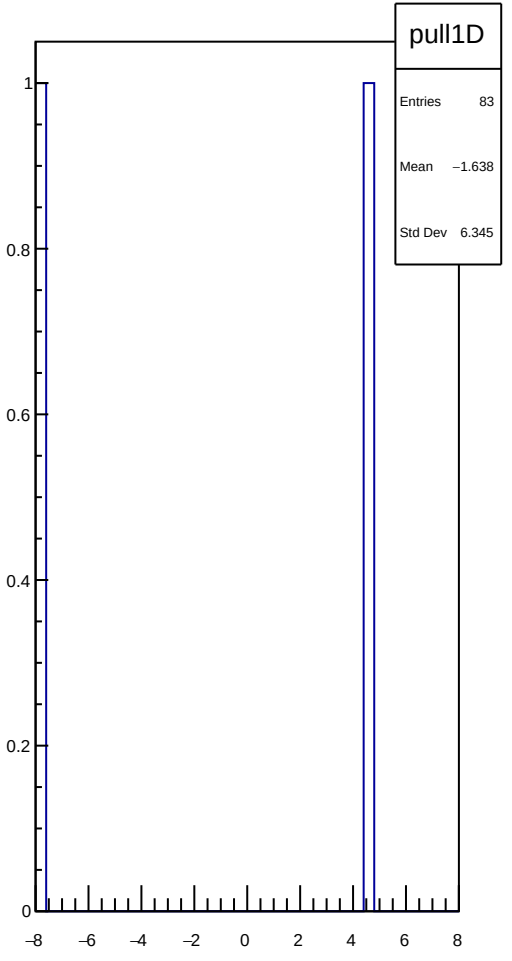

asym_sam7_rms vs run
χ^2 / ndf 1.373e+04 / 82
p0 328 ± 0.2577
460
440
420
400
380
360
340
320
300
280

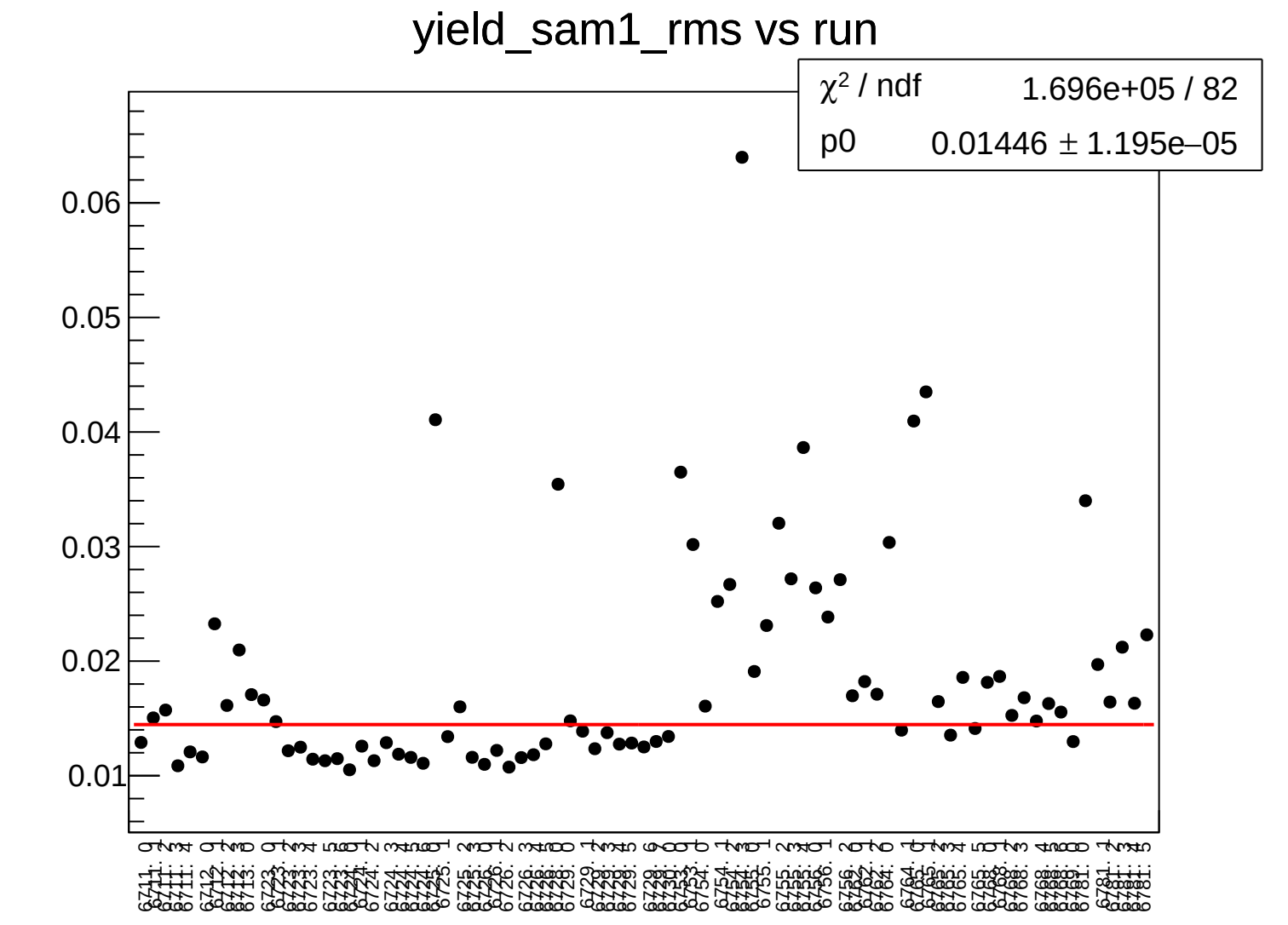

asym_sam8_mean vs run
χ² / ndf 89.81 / 82
p0 −165.1± 331.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 99.33
Std Dev 51.29
3
2
1
0
−1
−2
−3

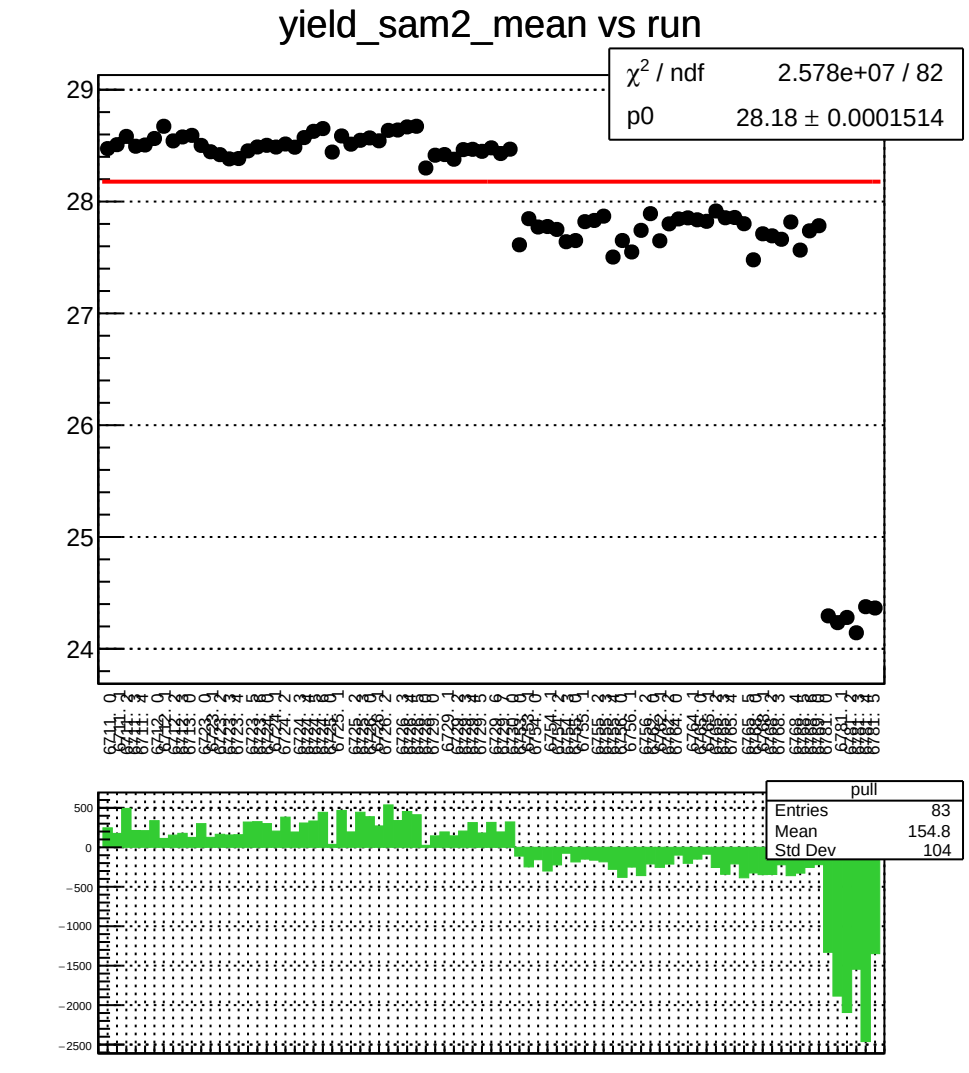

pull1D
Entries 83
Mean −0.01854
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

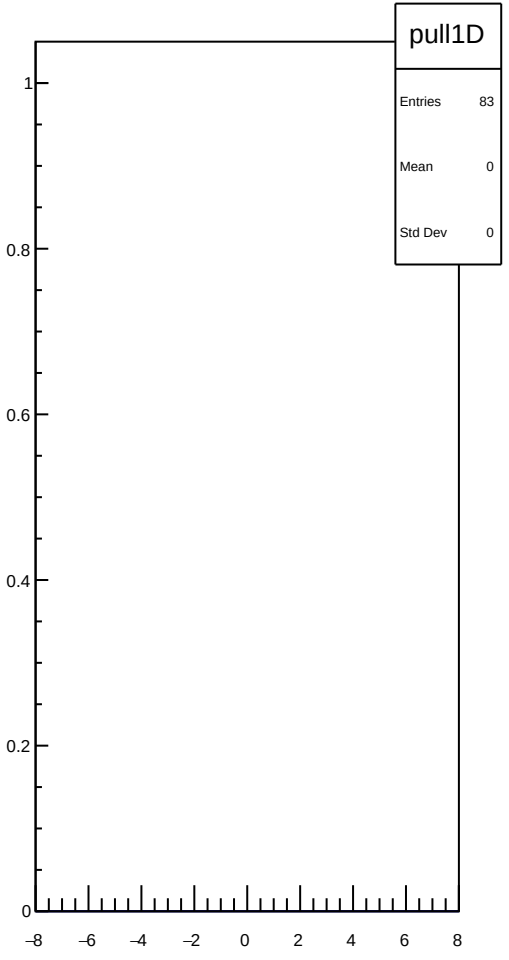

asym_sam8_rms vs run
χ^2 / ndf 1.838e+04 / 82
p0 298.3 ± 0.2347
450
400
350
300
250

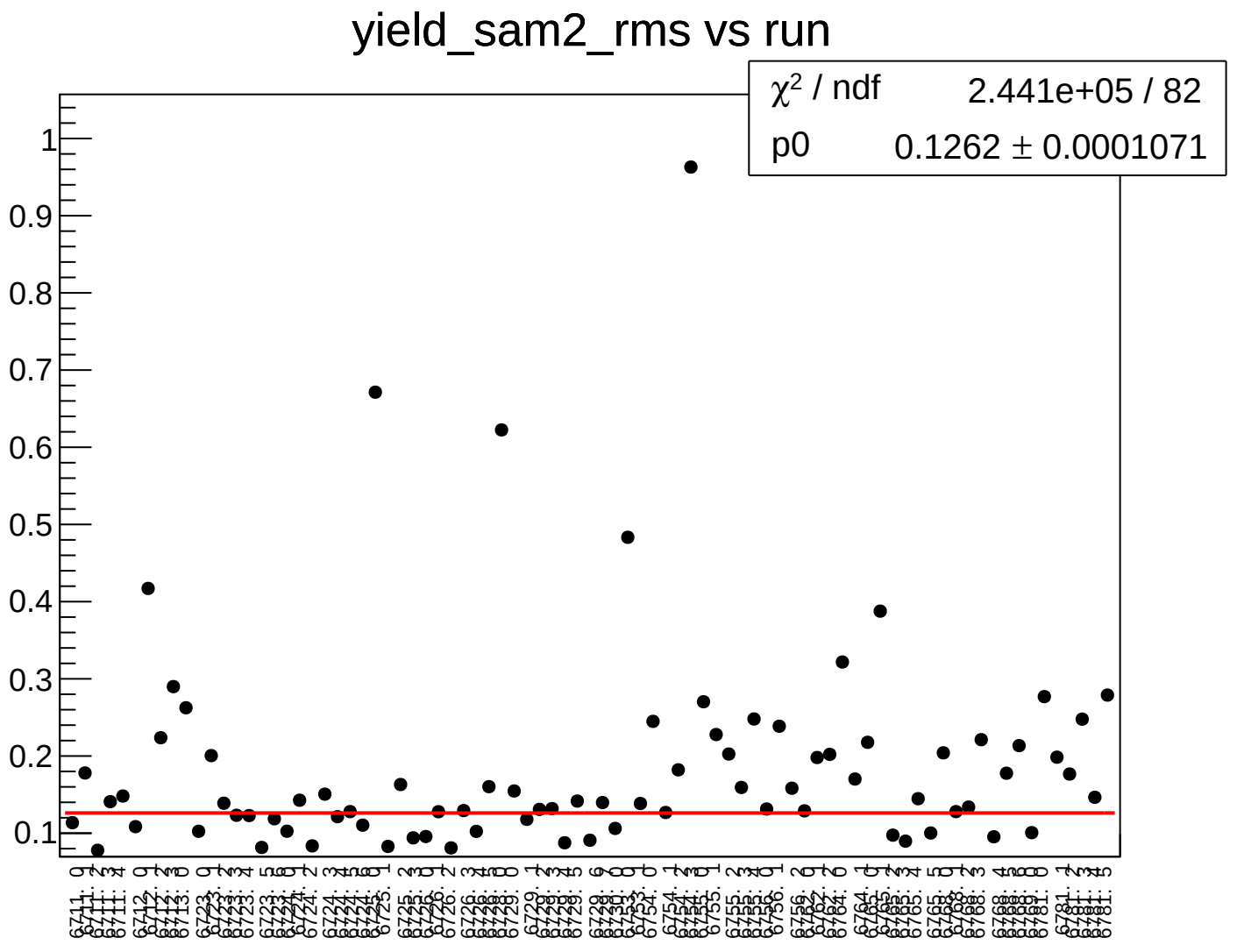

yield_sam1_mean vs run
χ² / ndf 2.341e+07 / 82
p0 15.4 ± 1.69e−05
15.7
15.6
15.5
15.4
15.3
pull
Entries 83
Mean 60.56
Std Dev 73.61
1500
1000
500
0
−500

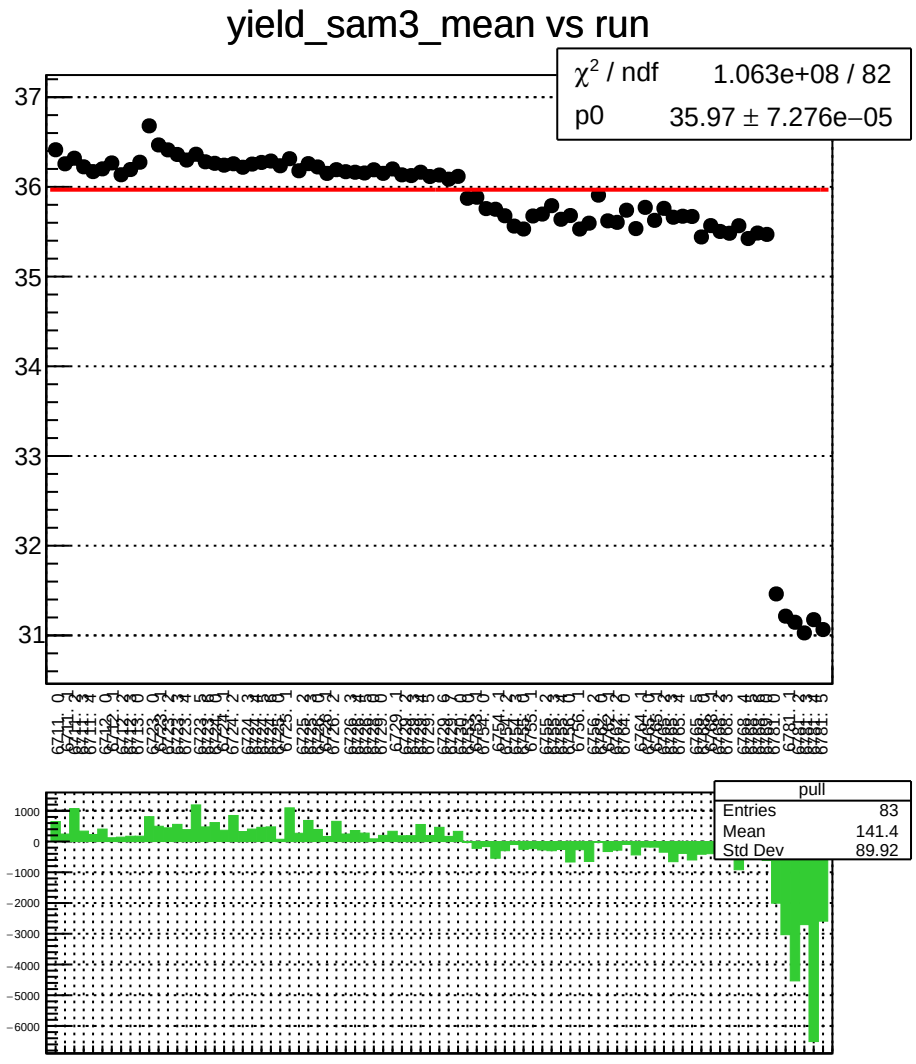

pull1D
Entries 83
Mean −1.638
Std Dev 6.345
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

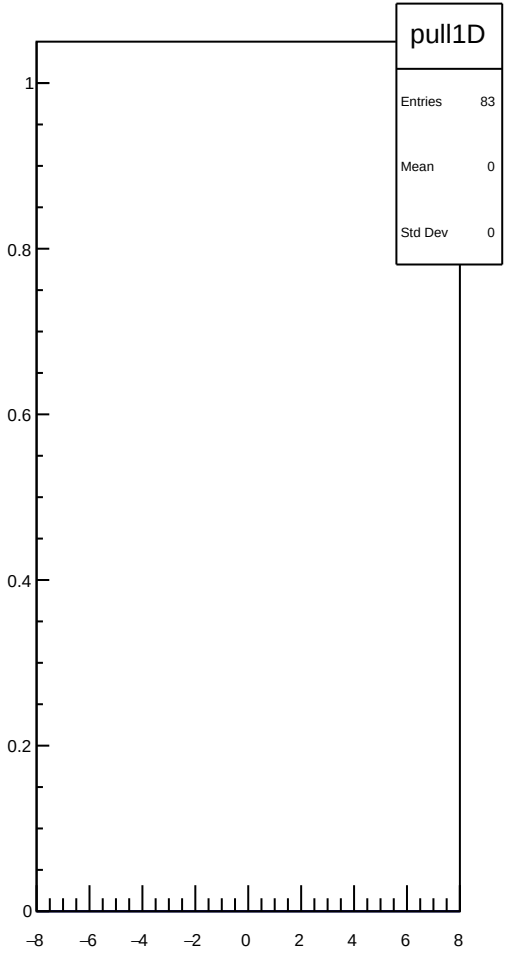

yield_sam1_rms vs run
χ² / ndf 1.696e+05 / 82
p0 0.01446 ± 1.195e−05
0.06
0.05
0.04
0.03
0.02
0.01

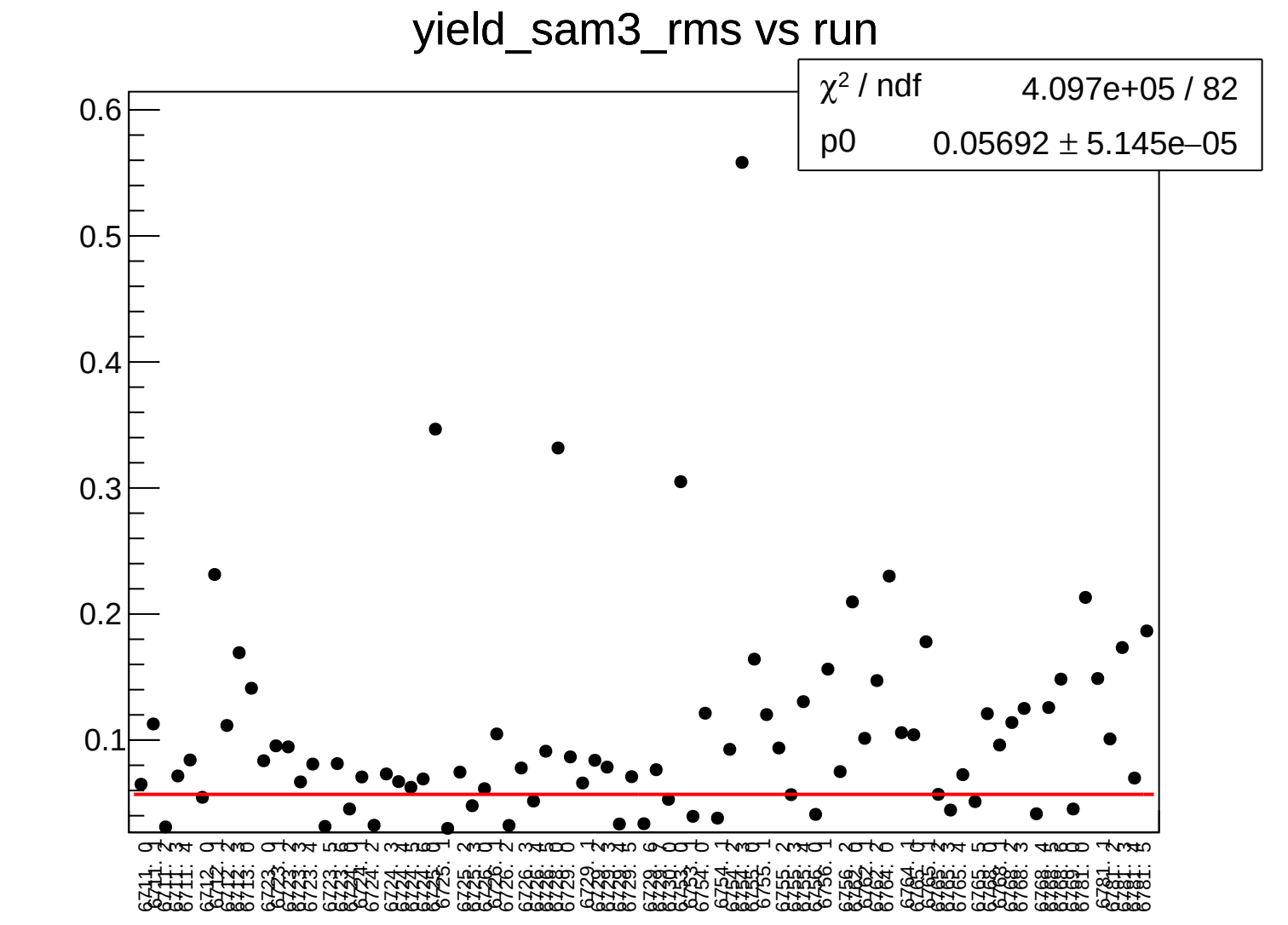

yield_sam2_mean vs run
χ² / ndf 2.578e+07 / 82
p0 28.18 ± 0.0001514
pull
Entries 83
Mean 154.8
Std Dev 104

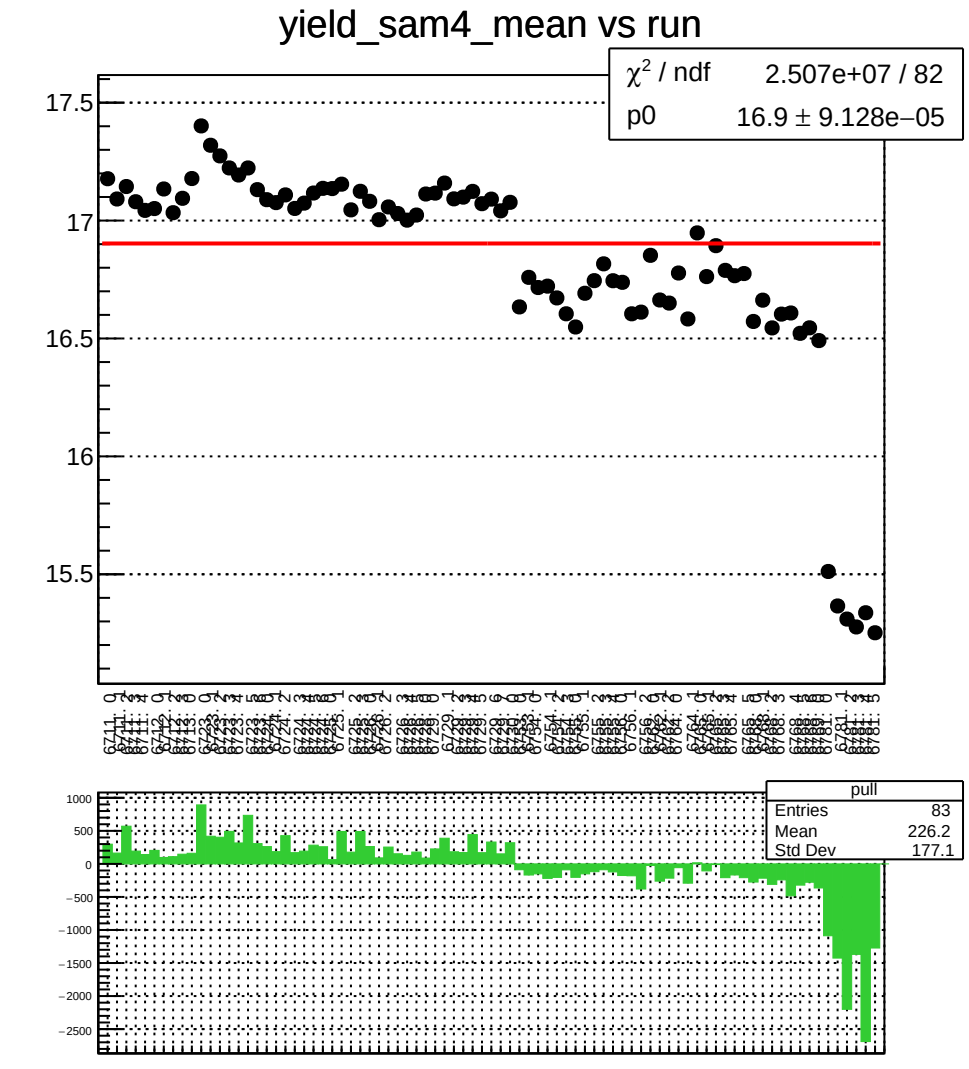

pull1D
Entries 83
Mean 0
Std Dev 0

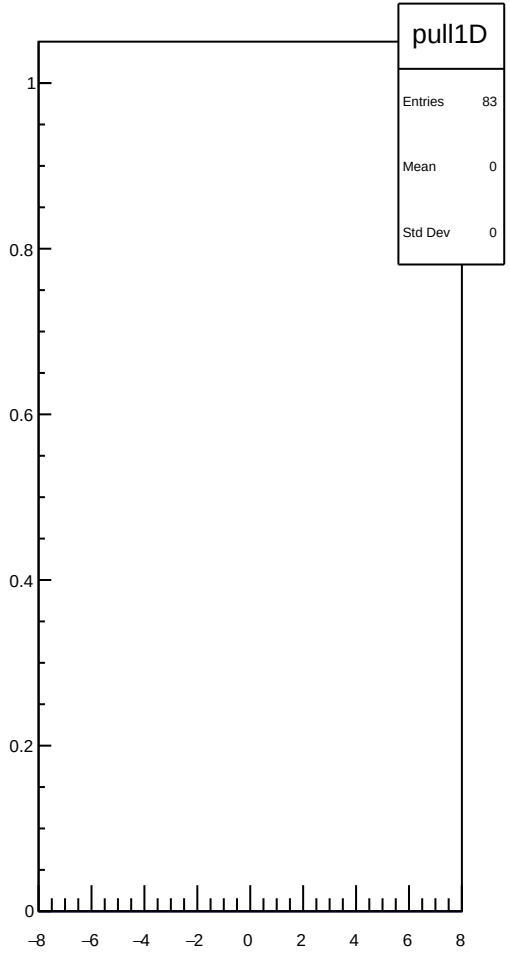

yield_sam2_rms vs run
χ² / ndf 2.441e+05 / 82
p0 0.1262 ± 0.0001071
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

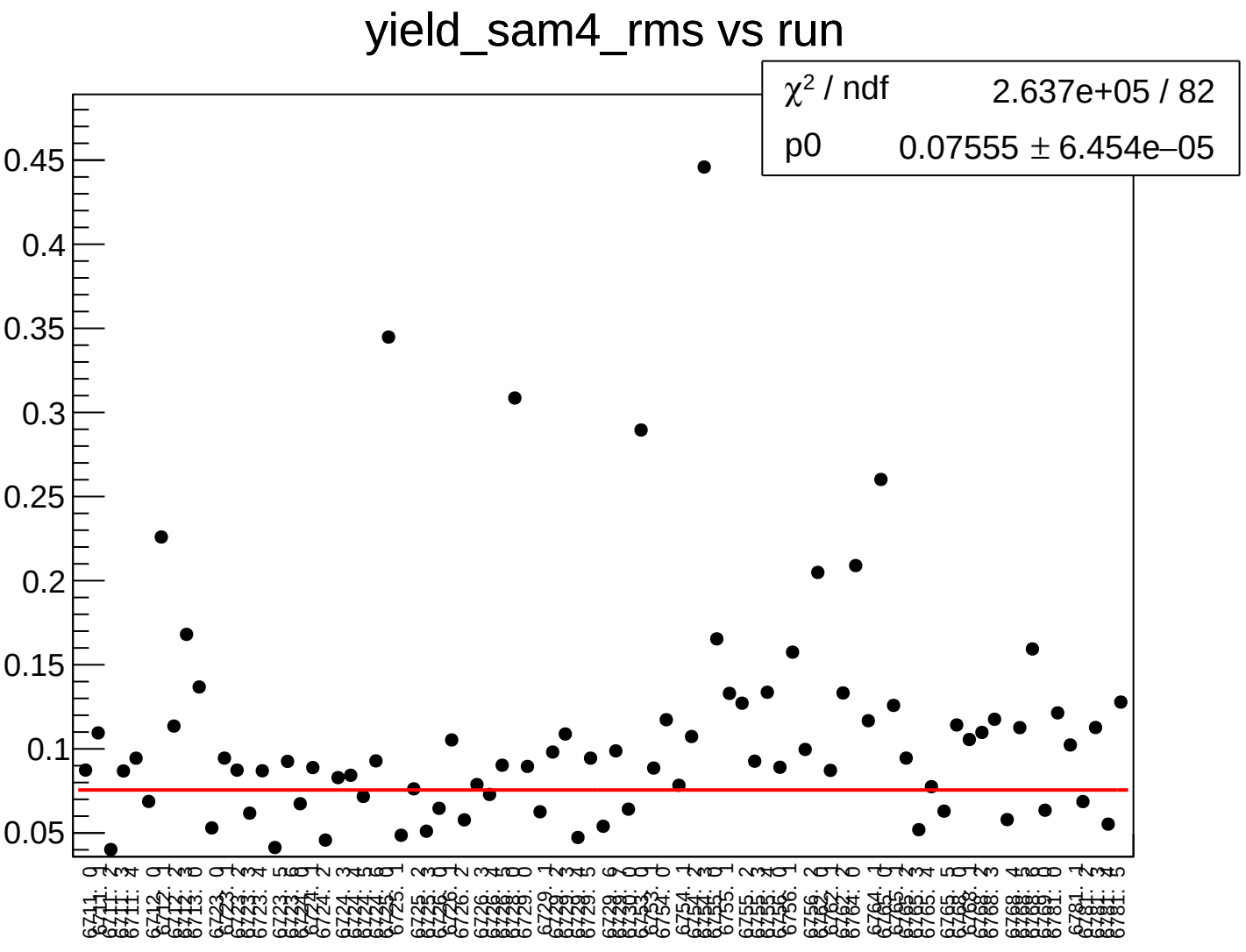

yield_sam3_mean vs run
χ² / ndf 1.063e+08 / 82
p0 35.97 ± 7.276e−05
37
36
35
34
33
32
31
pull
Entries 83
Mean 141.4
Std Dev 89.92
1000
0
−1000
−2000
−3000
−4000
−5000
−6000

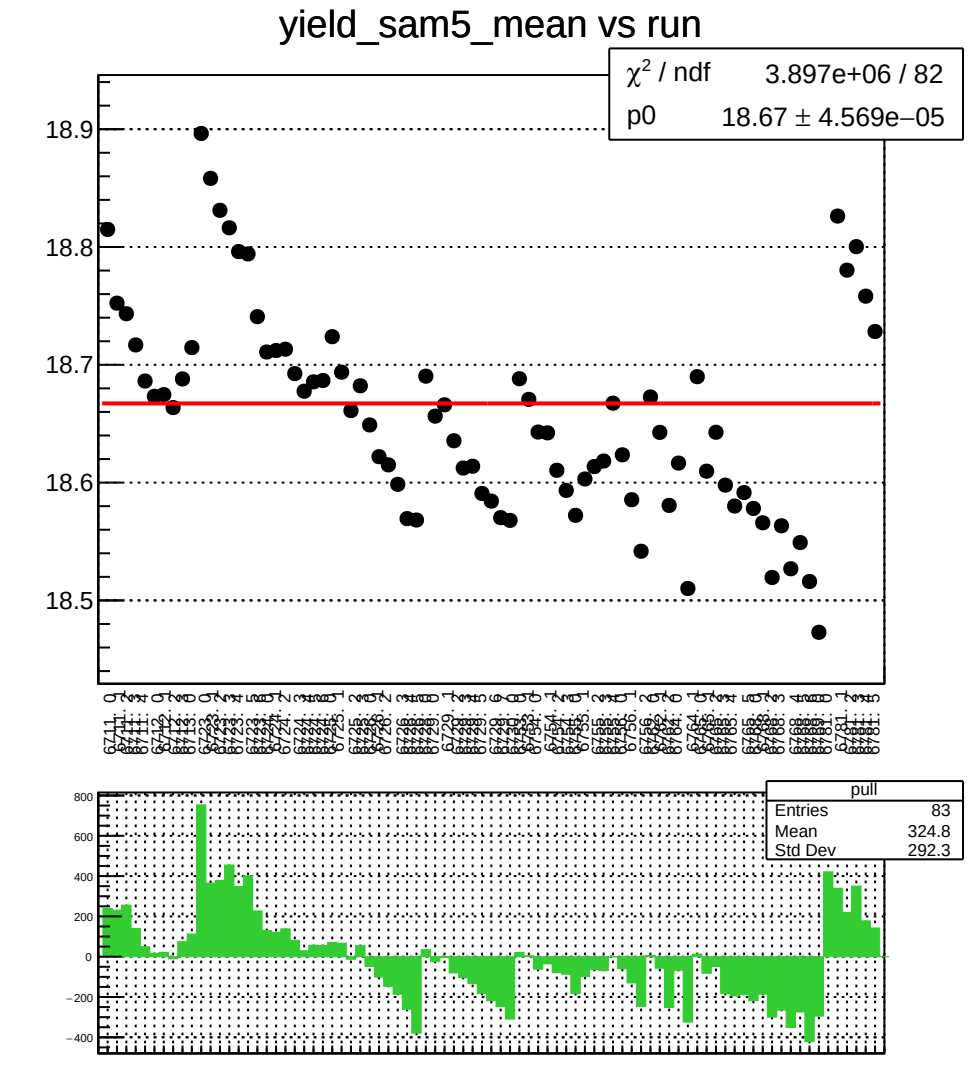

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

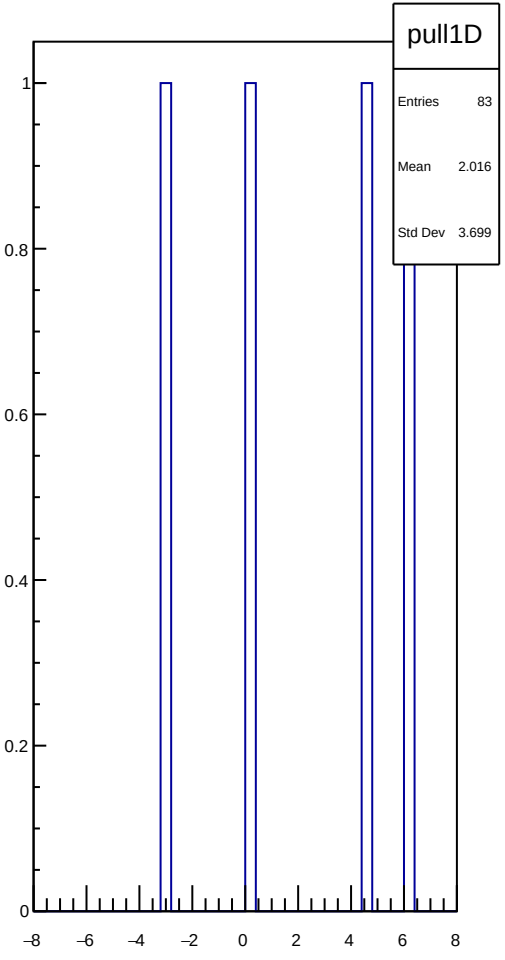

yield_sam3_rms vs run
χ² / ndf 4.097e+05 / 82
p0 0.05692 ± 5.145e−05
0.6
0.5
0.4
0.3
0.2
0.1

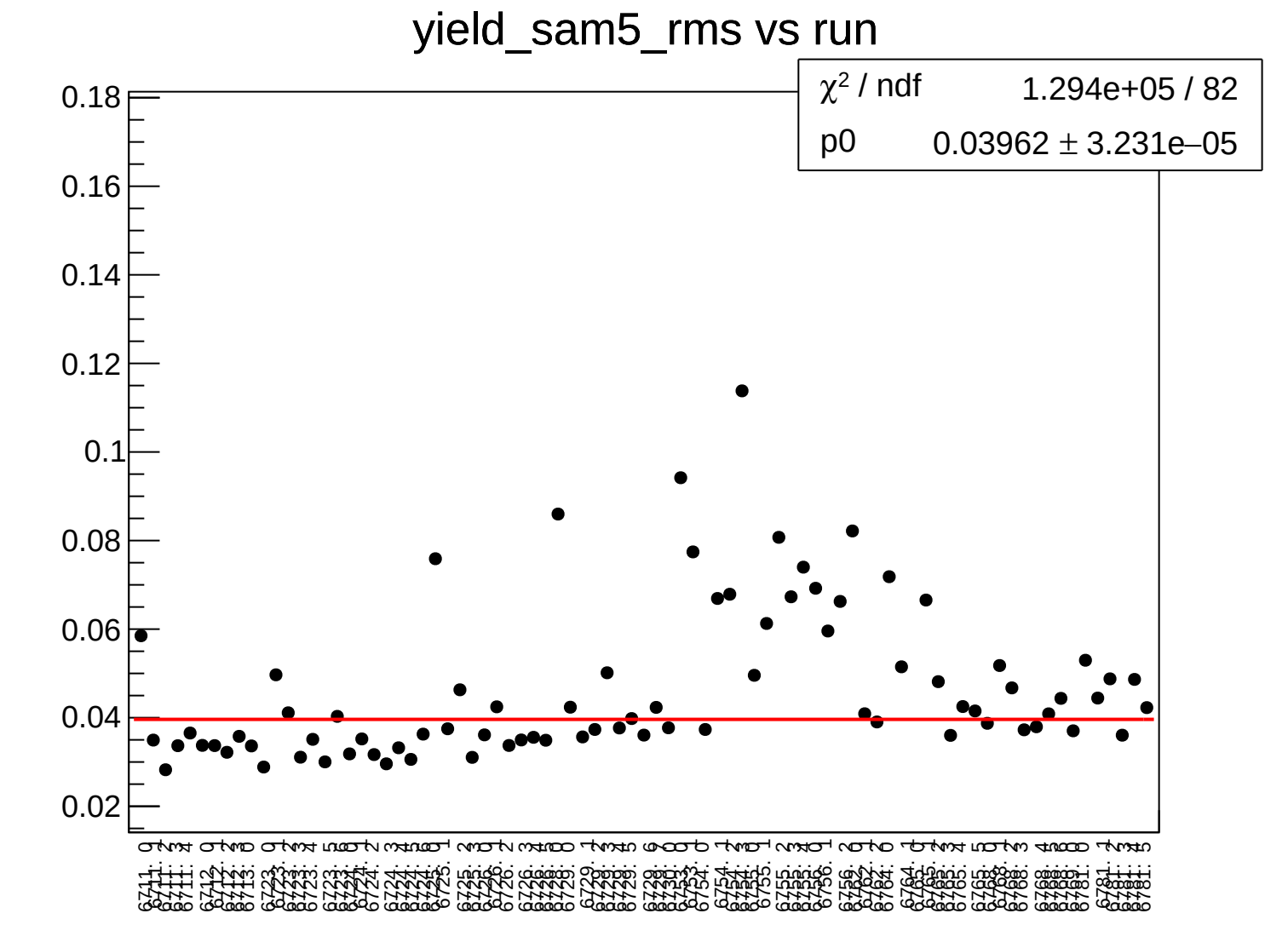

yield_sam4_mean vs run
χ² / ndf 2.507e+07 / 82
p0 16.9 ± 9.128e−05
17.5
17
16.5
16
15.5
pull
Entries 83
Mean 226.2
Std Dev 177.1
1000
500
0
−500
−1000
−1500
−2000
−2500

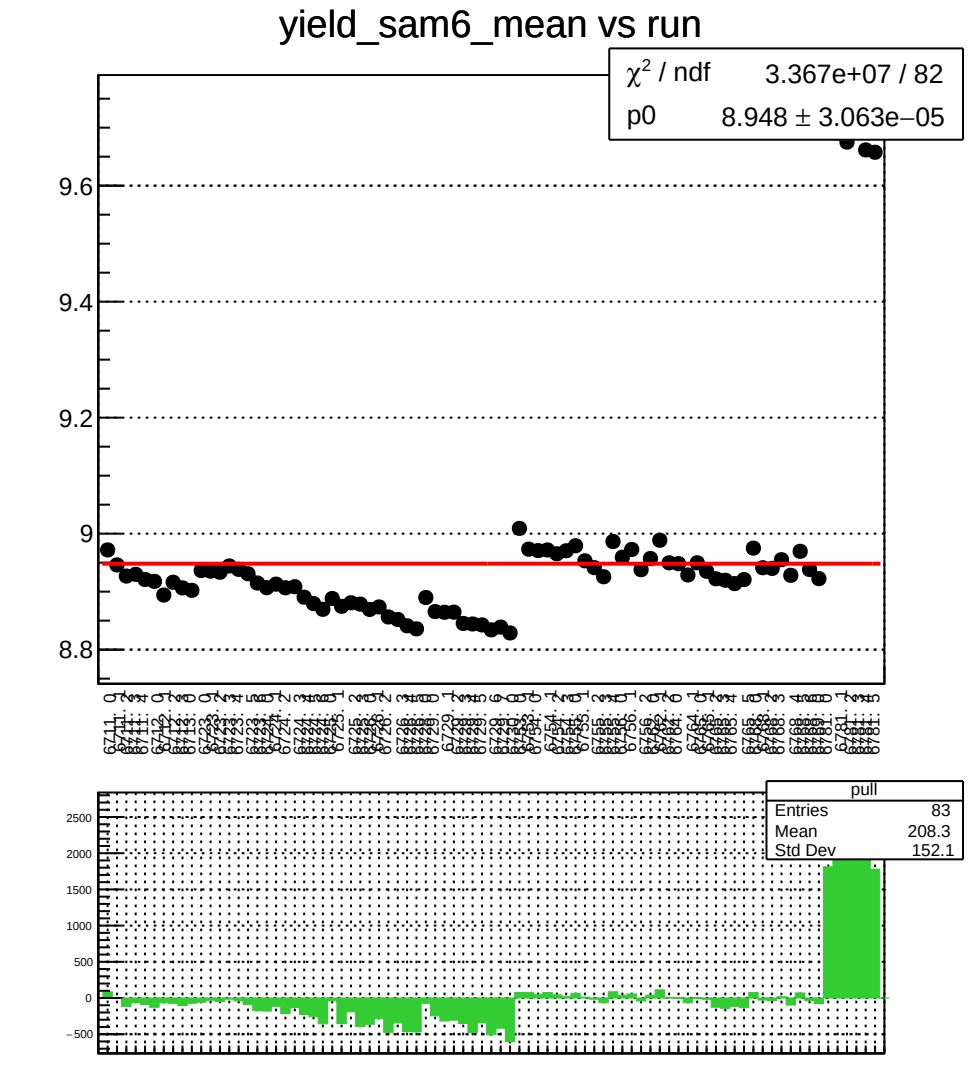

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

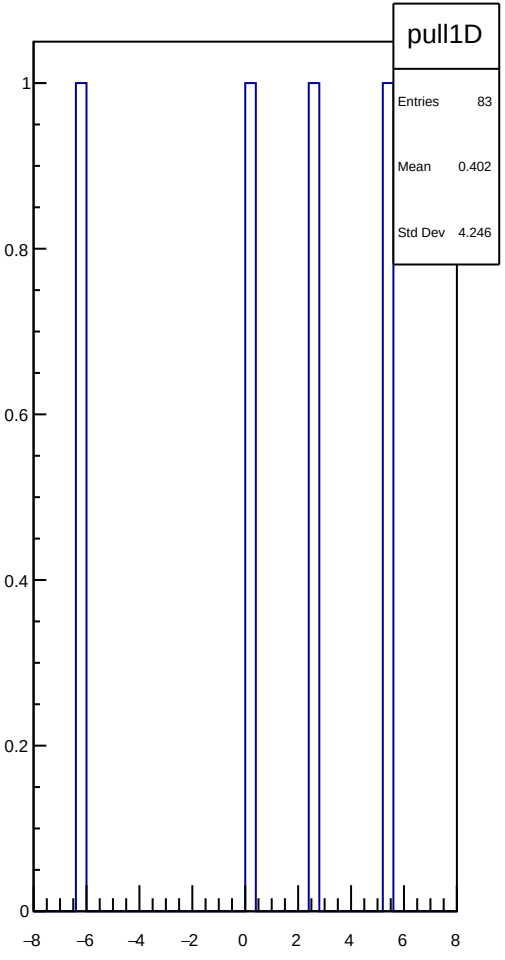

yield_sam4_rms vs run
χ² / ndf 2.637e+05 / 82
p0 0.07555 ± 6.454e–05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

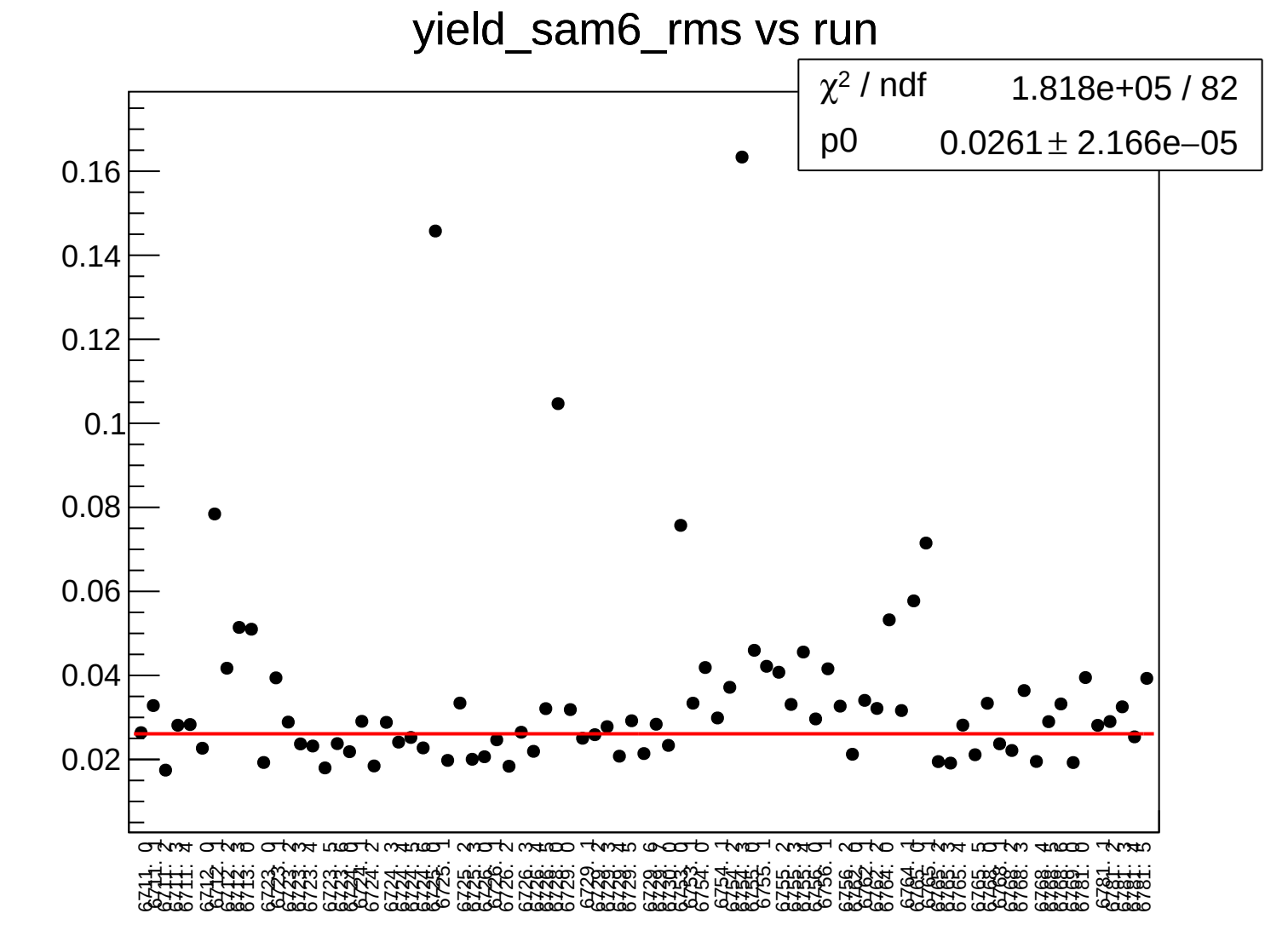

yield_sam5_mean vs run
χ² / ndf 3.897e+06 / 82
p0 18.67 ± 4.569e−05
18.9
18.8
18.7
18.6
18.5
pull
Entries 83
Mean 324.8
Std Dev 292.3
800
600
400
200
0
−200
−400

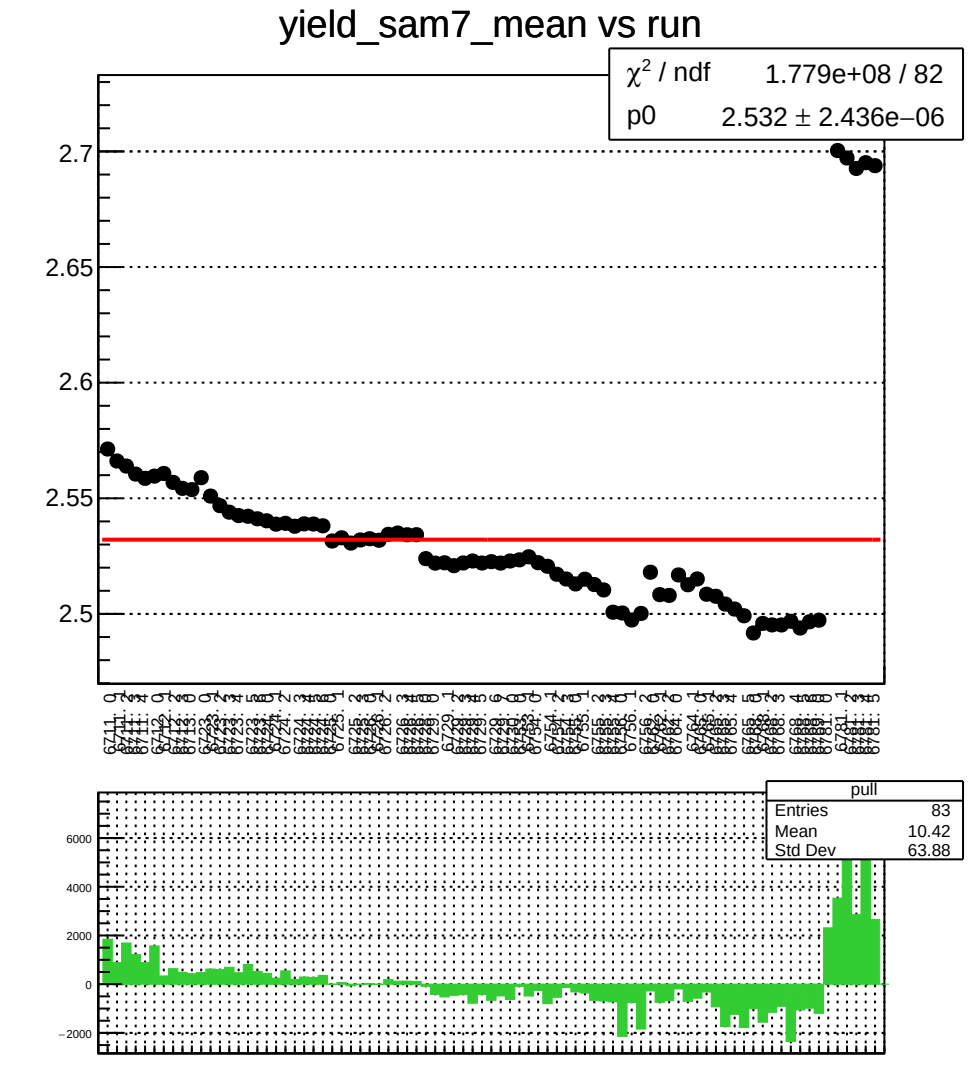

pull1D
Entries 83
Mean 2.016
Std Dev 3.699
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

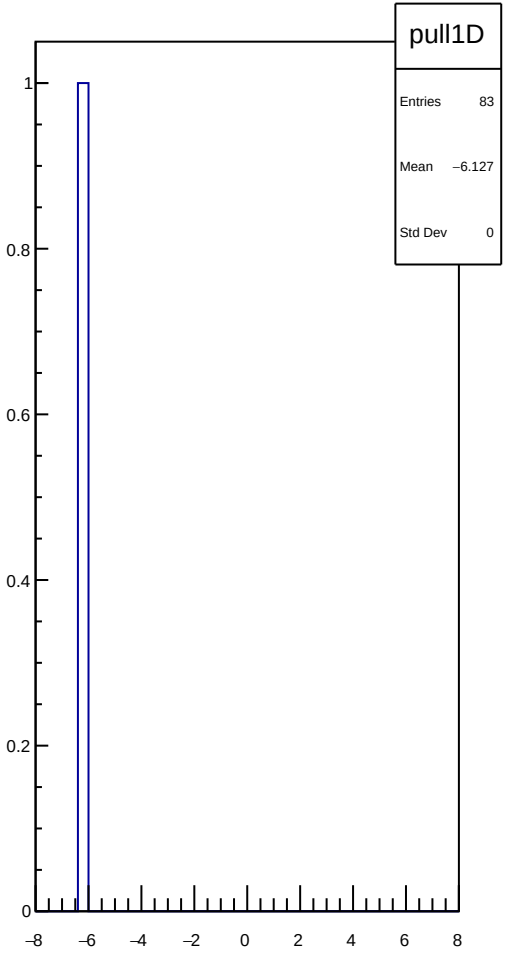

yield_sam5_rms vs run
χ² / ndf 1.294e+05 / 82
p0 0.03962 ± 3.231e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

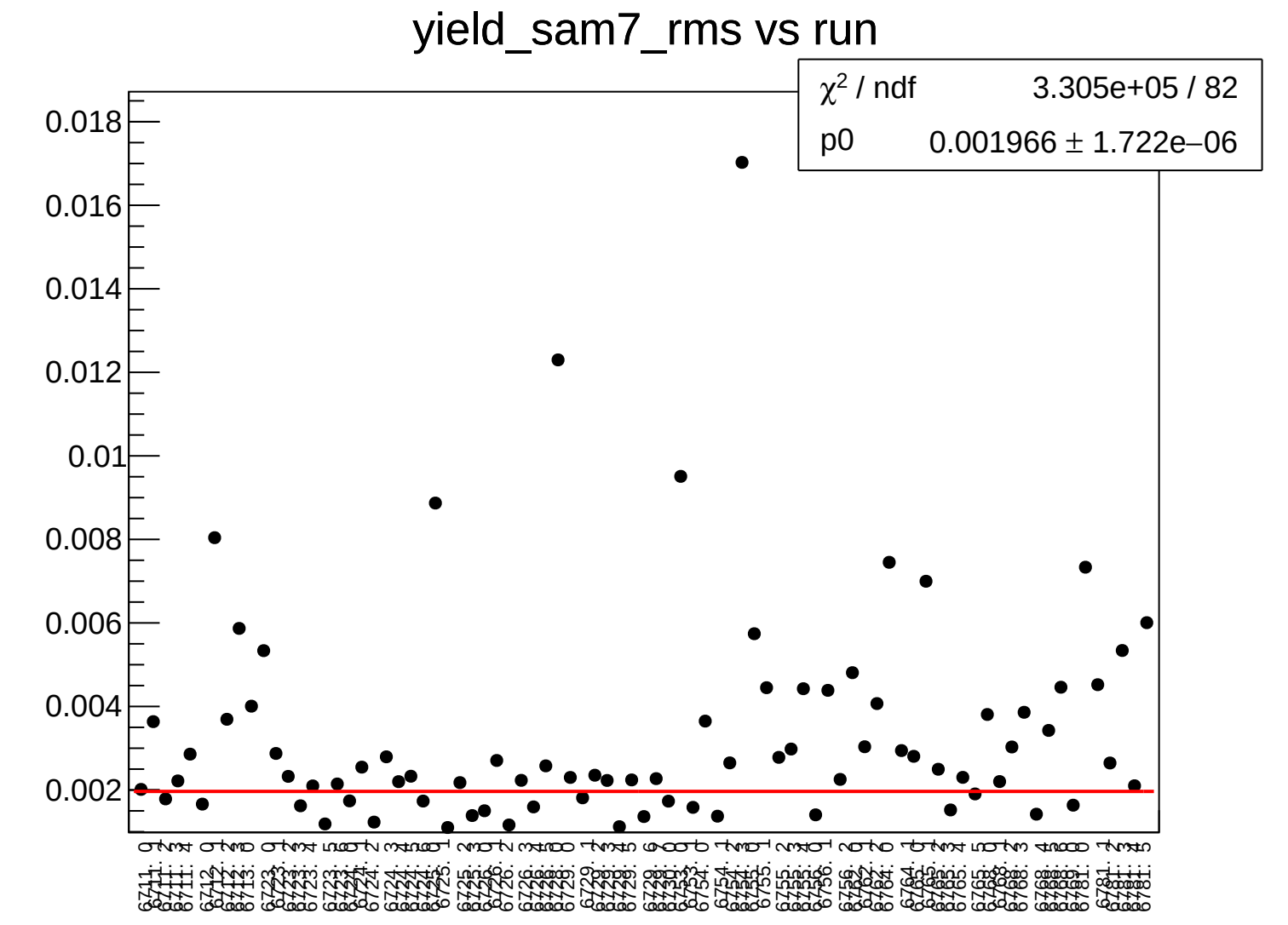

yield_sam6_mean vs run
χ² / ndf 3.367e+07 / 82
p0 8.948 ± 3.063e−05
9.6
9.4
9.2
9
8.8
pull
Entries 83
Mean 208.3
Std Dev 152.1
2500
2000
1500
1000
500
0
−500

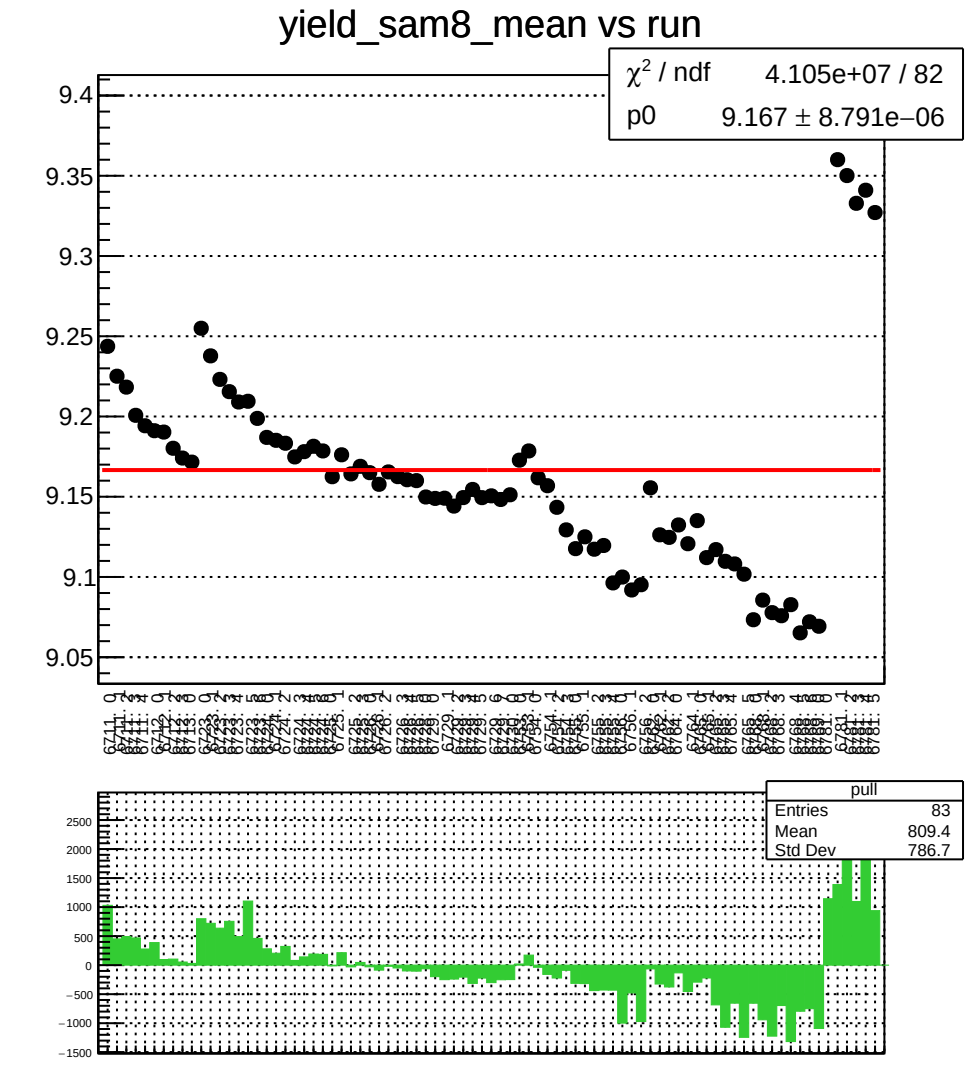

pull1D
Entries 83
Mean 0.402
Std Dev 4.246
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

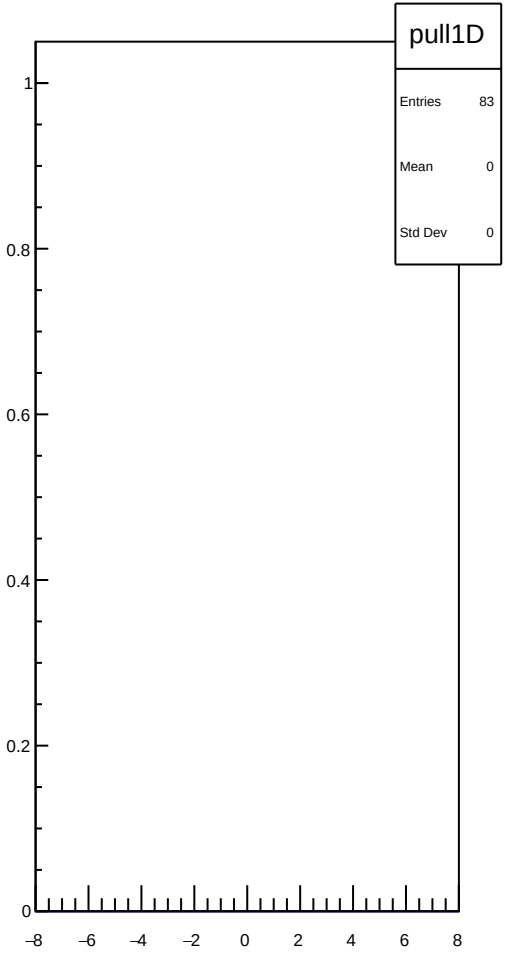

yield_sam6_rms vs run
χ² / ndf 1.818e+05 / 82
p0 0.0261 ± 2.166e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02


yield_sam7_mean vs run
χ² / ndf 1.779e+08 / 82
p0 2.532 ± 2.436e−06
2.7
2.65
2.6
2.55
2.5
pull
Entries 83
Mean 10.42
Std Dev 63.88
6000
4000
2000
0
−2000

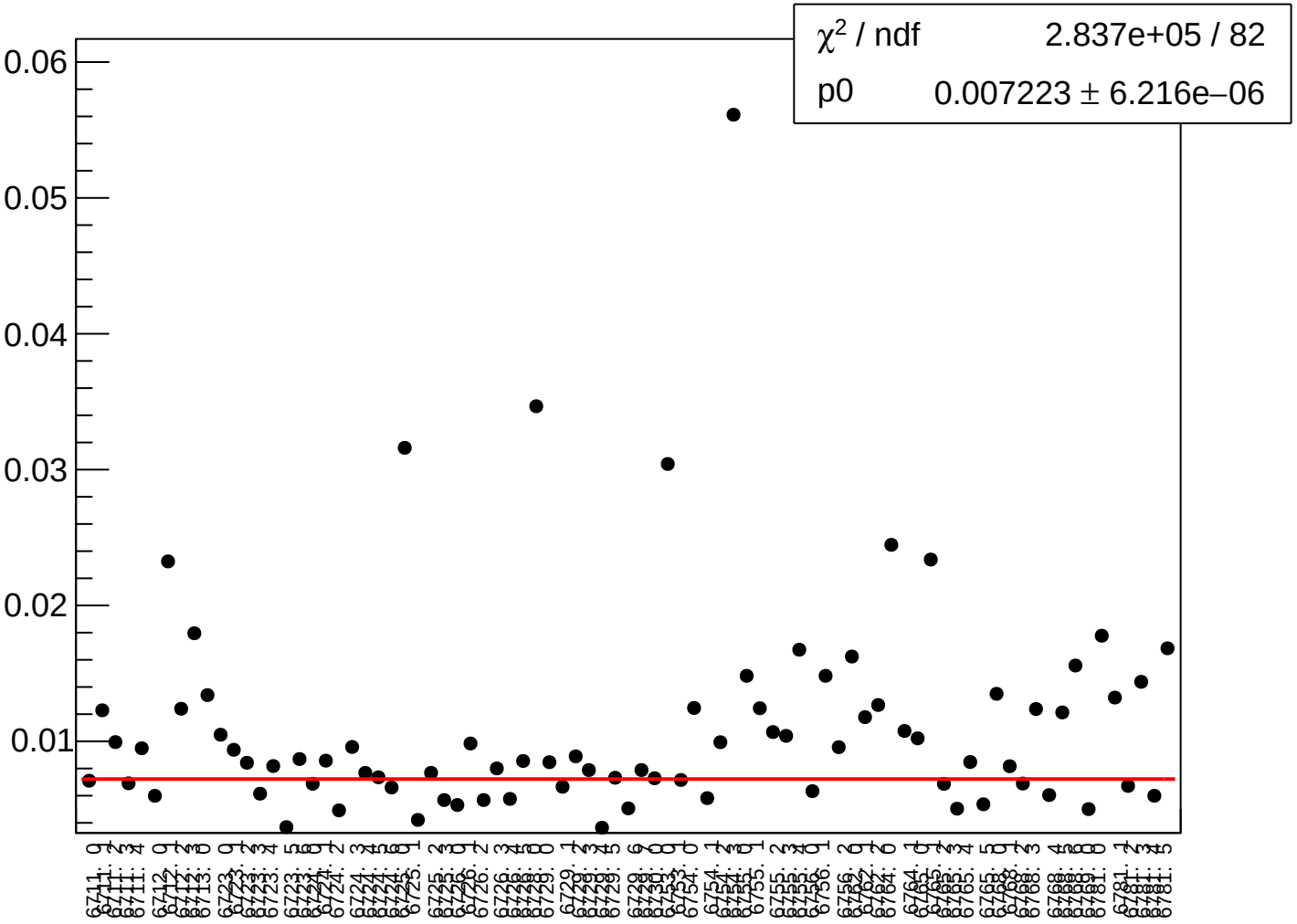

pull1D
Entries 83
Mean −6.127
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

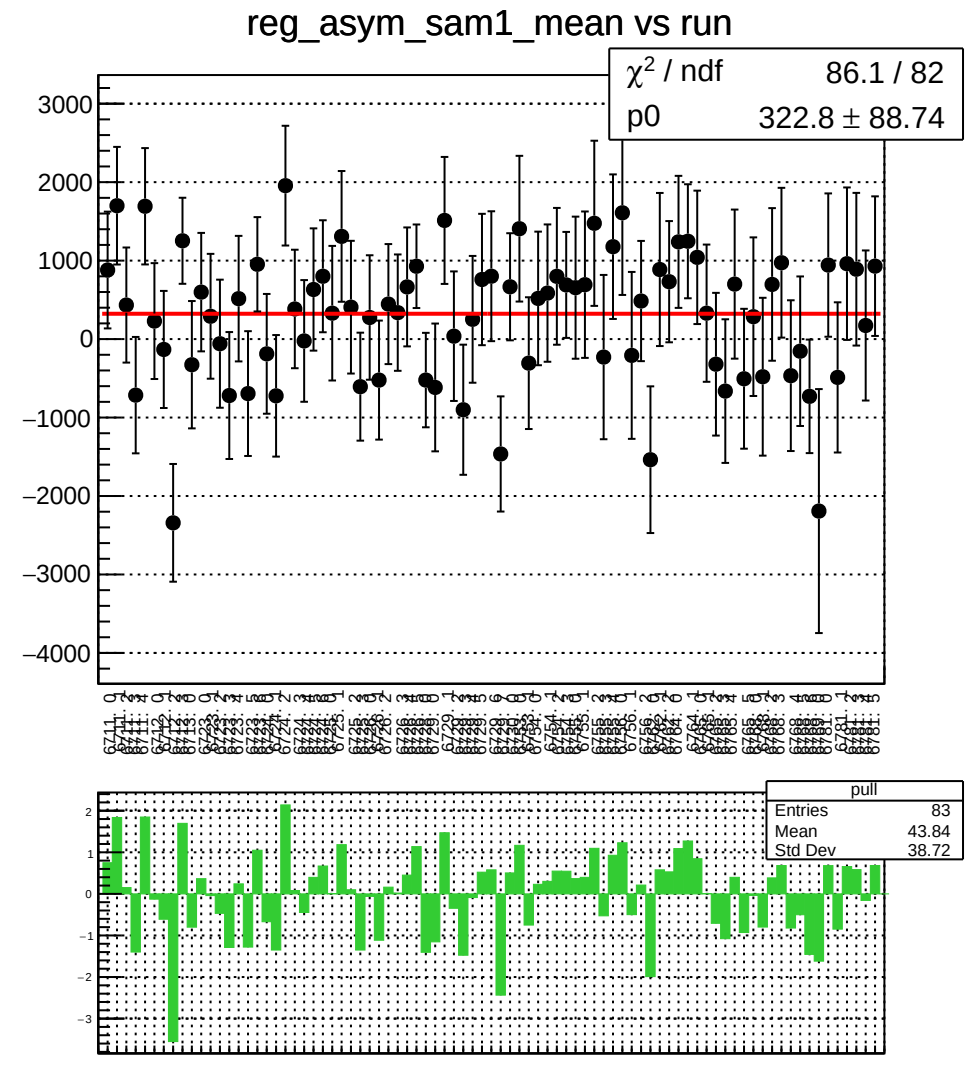

yield_sam7_rms vs run
χ² / ndf 3.305e+05 / 82
p0 0.001966 ± 1.722e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

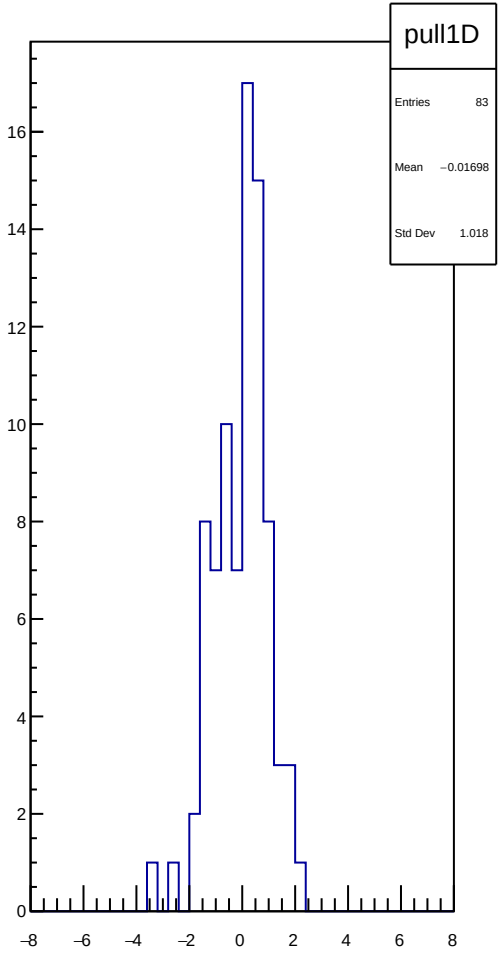

yield_sam8_mean vs run
χ² / ndf 4.105e+07 / 82
p0 9.167 ± 8.791e−06
9.4
9.35
9.3
9.25
9.2
9.15
9.1
9.05
pull
Entries 83
Mean 809.4
Std Dev 786.7
2500
2000
1500
1000
500
0
−500
−1000
−1500


pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

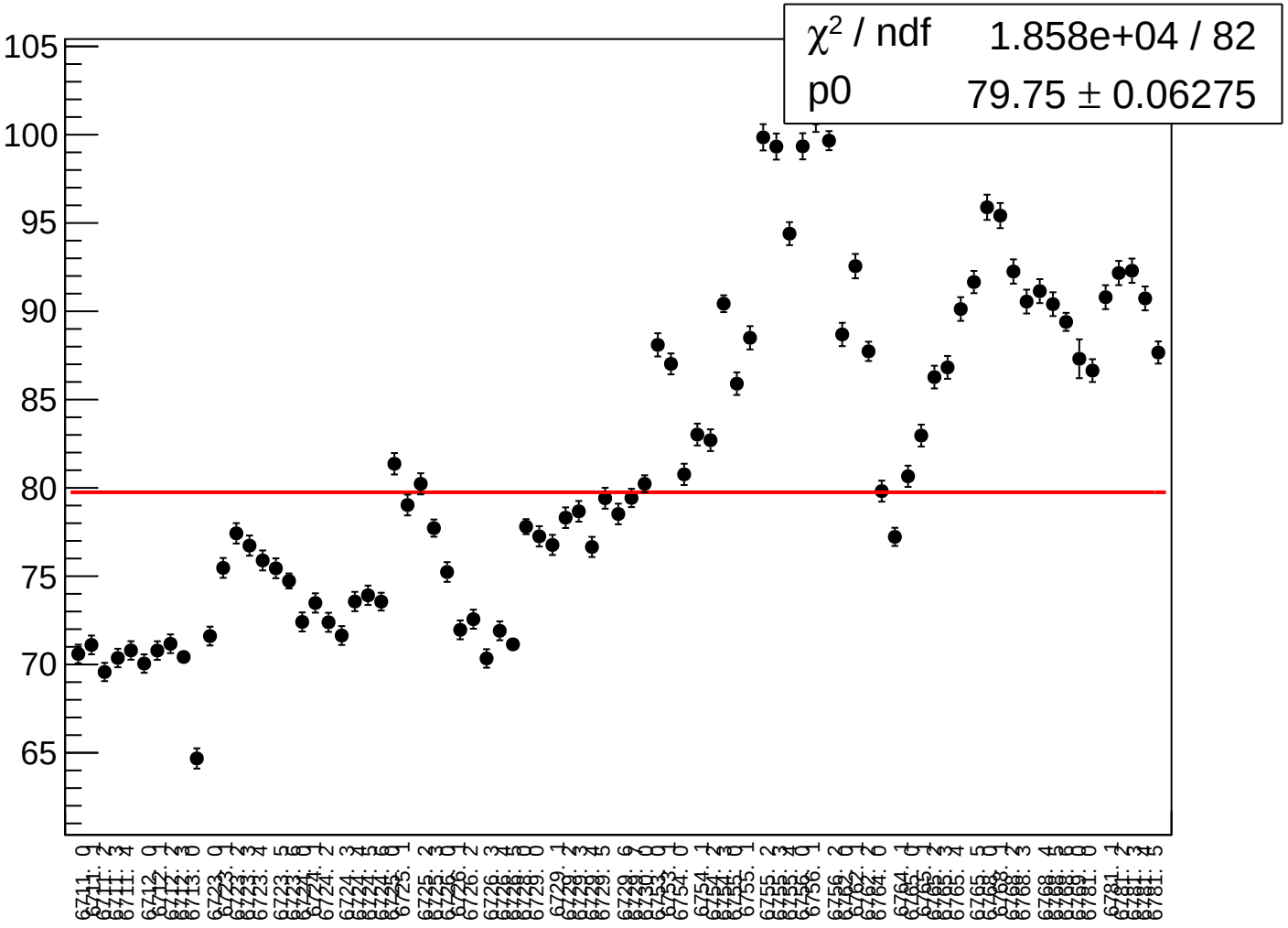
yield_sam8_rms vs run

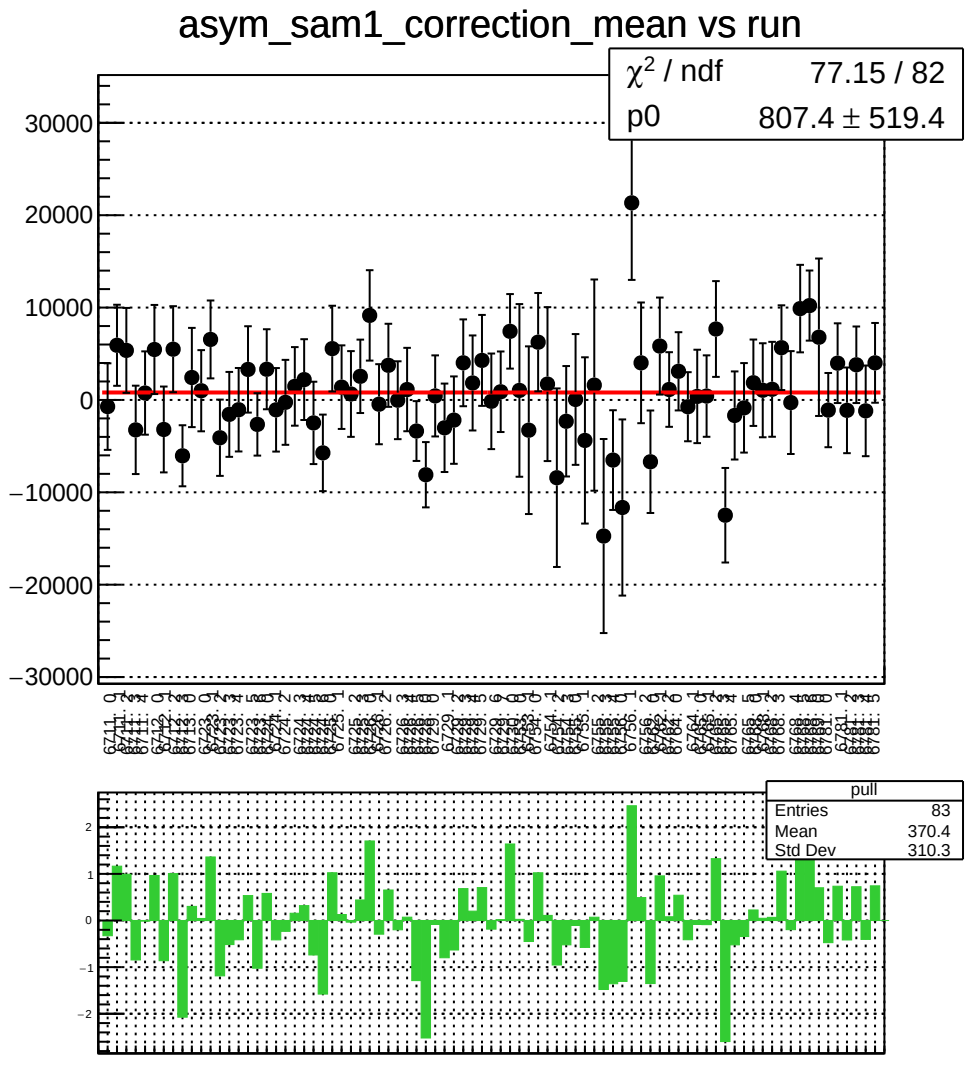


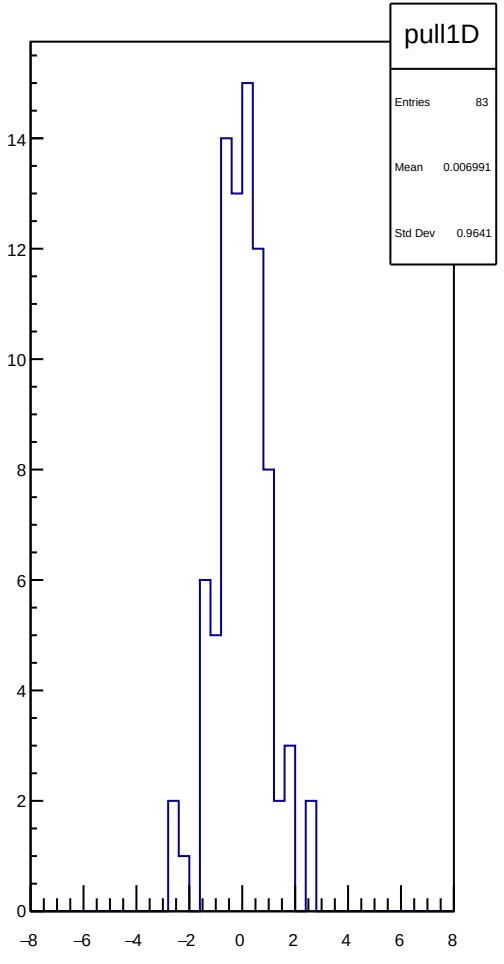

reg_asym_sam1_mean vs run
χ² / ndf 86.1 / 82
p0 322.8 ± 88.74
pull
Entries 83
Mean 43.84
Std Dev 38.72

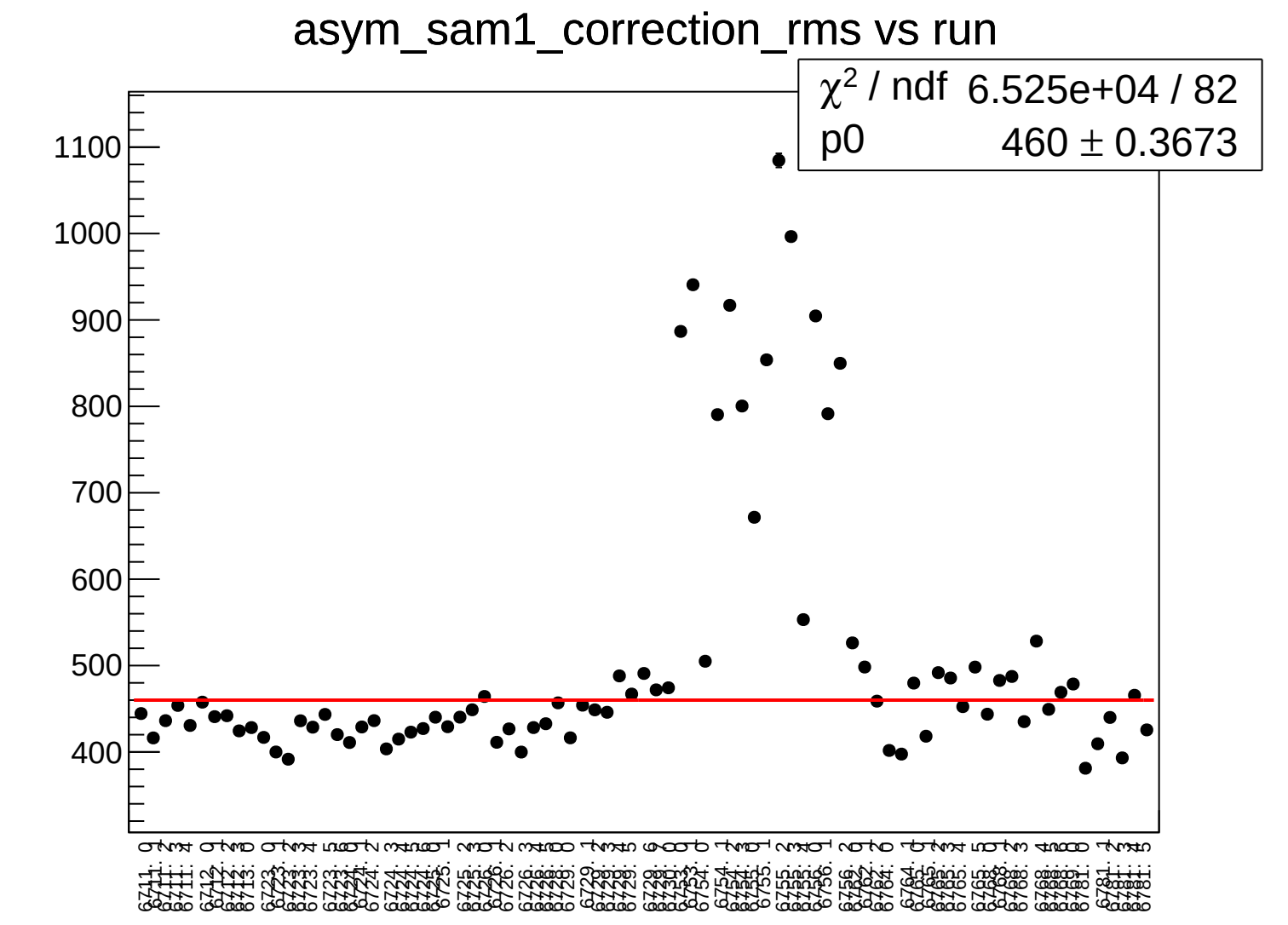

pull1D
Entries 83
Mean −0.01698
Std Dev 1.018

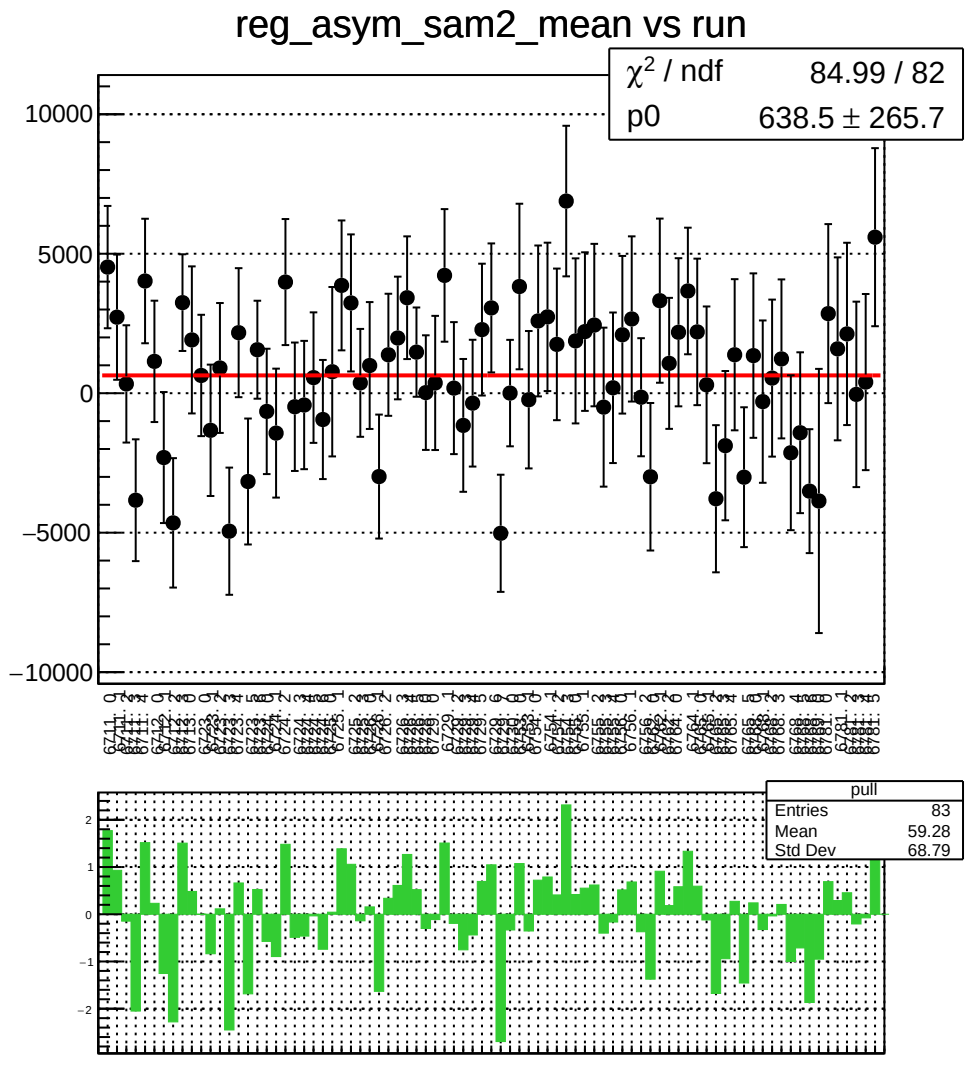
reg_asym_sam1_rms vs run

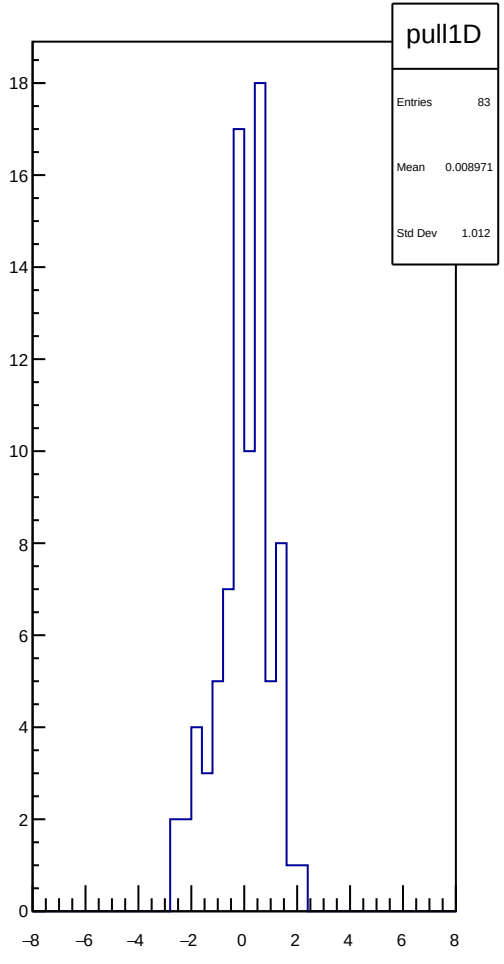


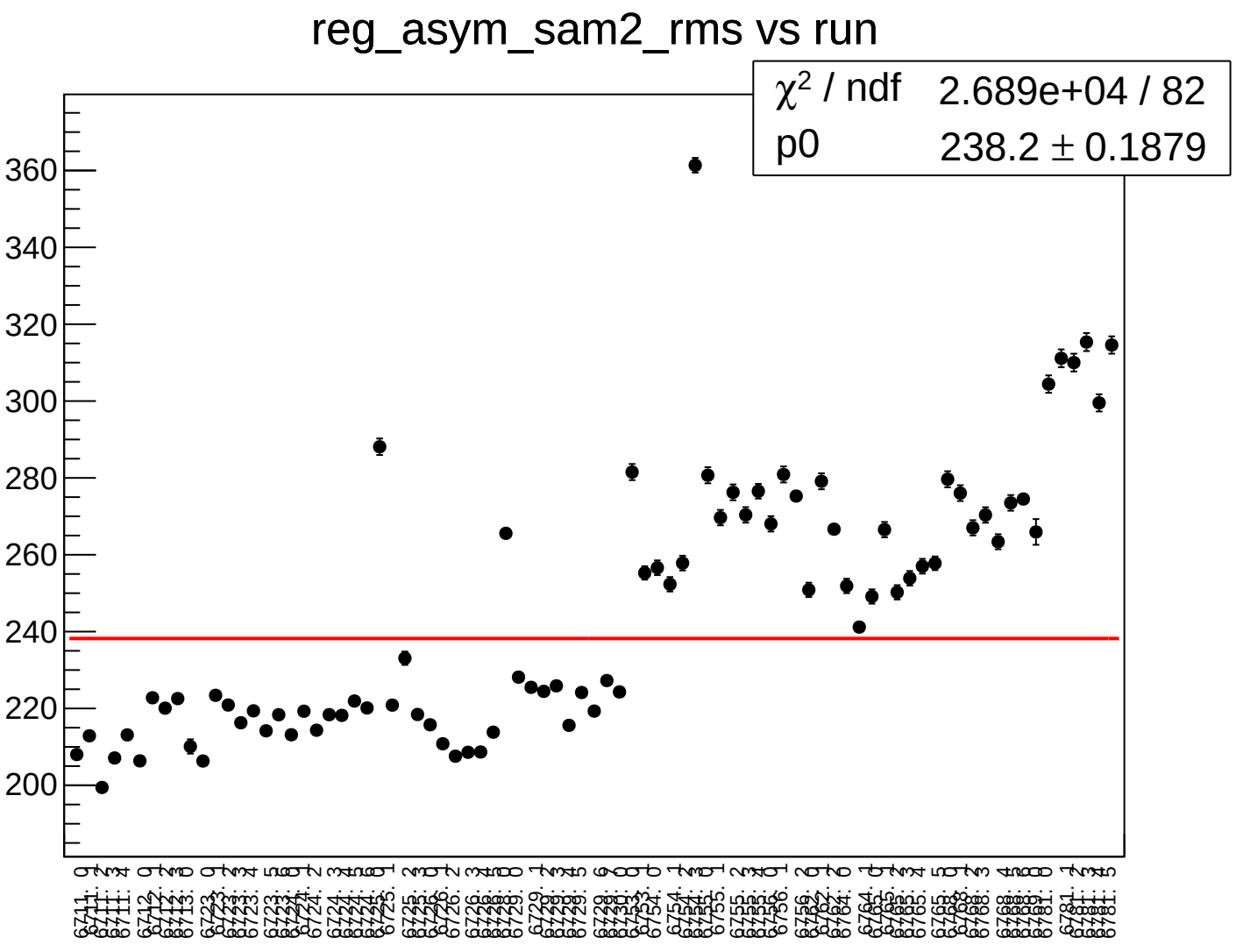

asym_sam1_correction_mean vs run
χ^2 / ndf 77.15 / 82
p0 807.4 ± 519.4
pull
Entries 83
Mean 370.4
Std Dev 310.3

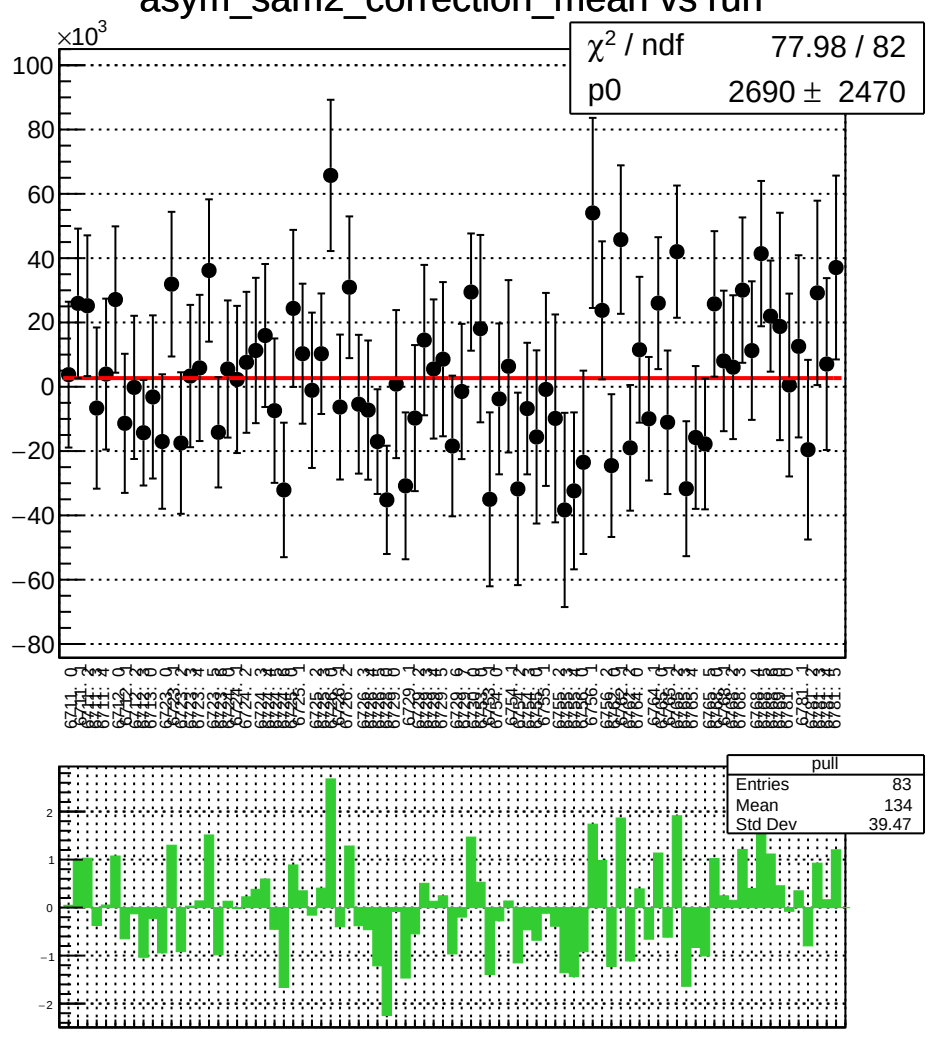

pull1D
Entries 83
Mean 0.006991
Std Dev 0.9641

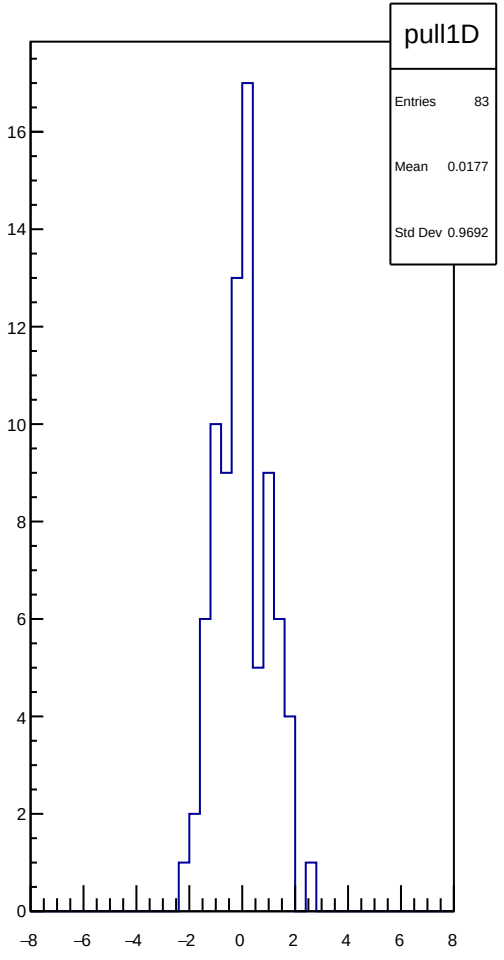

asym_sam1_correction_rms vs run
χ² / ndf 6.525e+04 / 82
p0 460 ± 0.3673
1100
1000
900
800
700
600
500
400

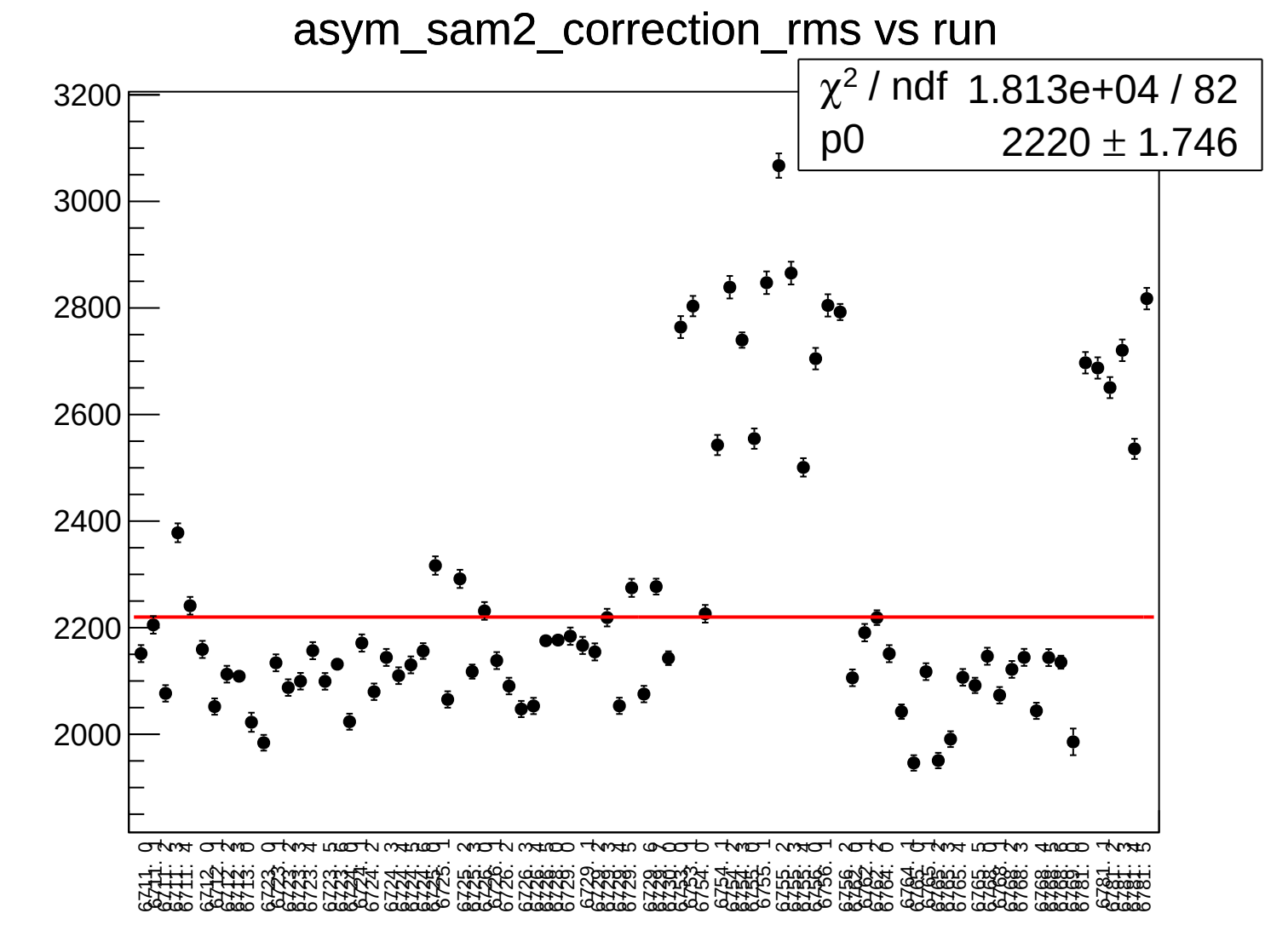

reg_asym_sam2_mean vs run
χ² / ndf 84.99 / 82
p0 638.5 ± 265.7
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 59.28
Std Dev 68.79
2
1
0
−1
−2

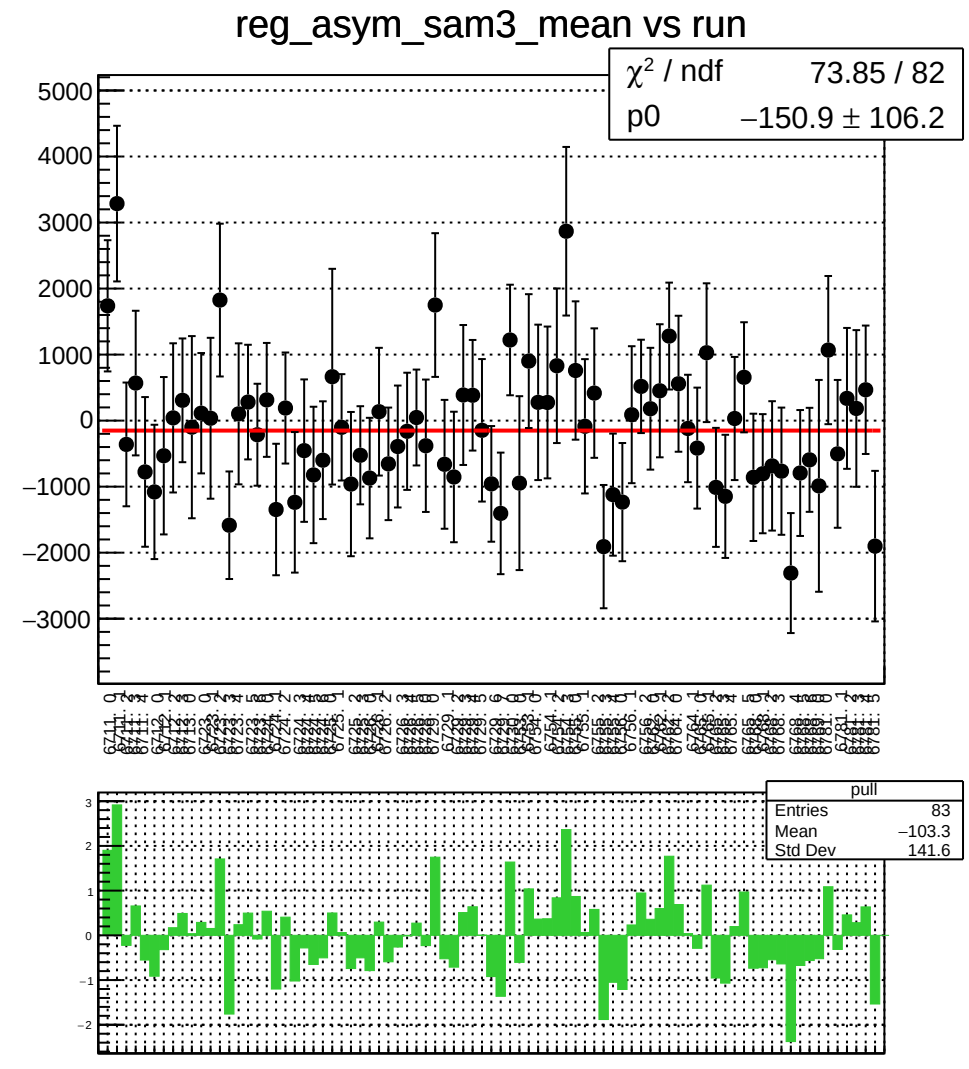

pull1D
Entries 83
Mean 0.008971
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

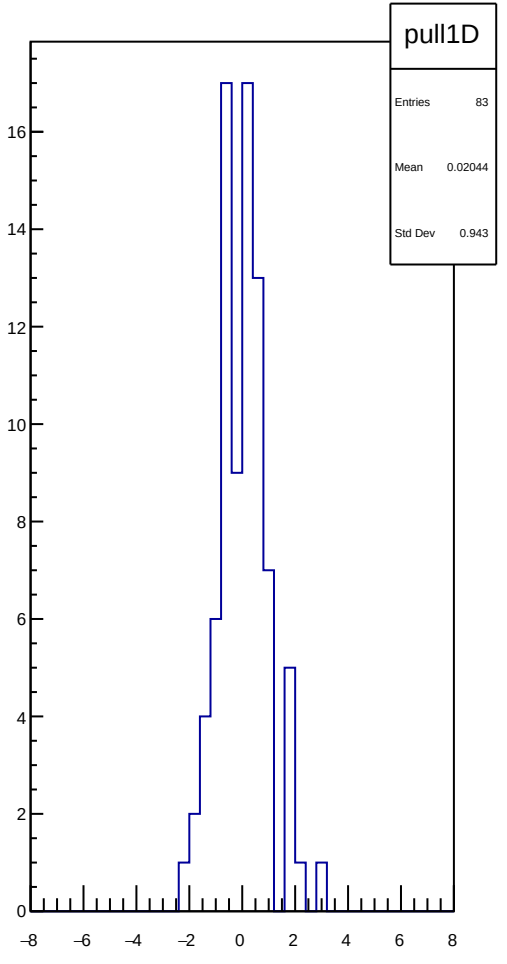

reg_asym_sam2_rms vs run
χ^2 / ndf 2.689e+04 / 82
p0 238.2 ± 0.1879
360
340
320
300
280
260
240
220
200

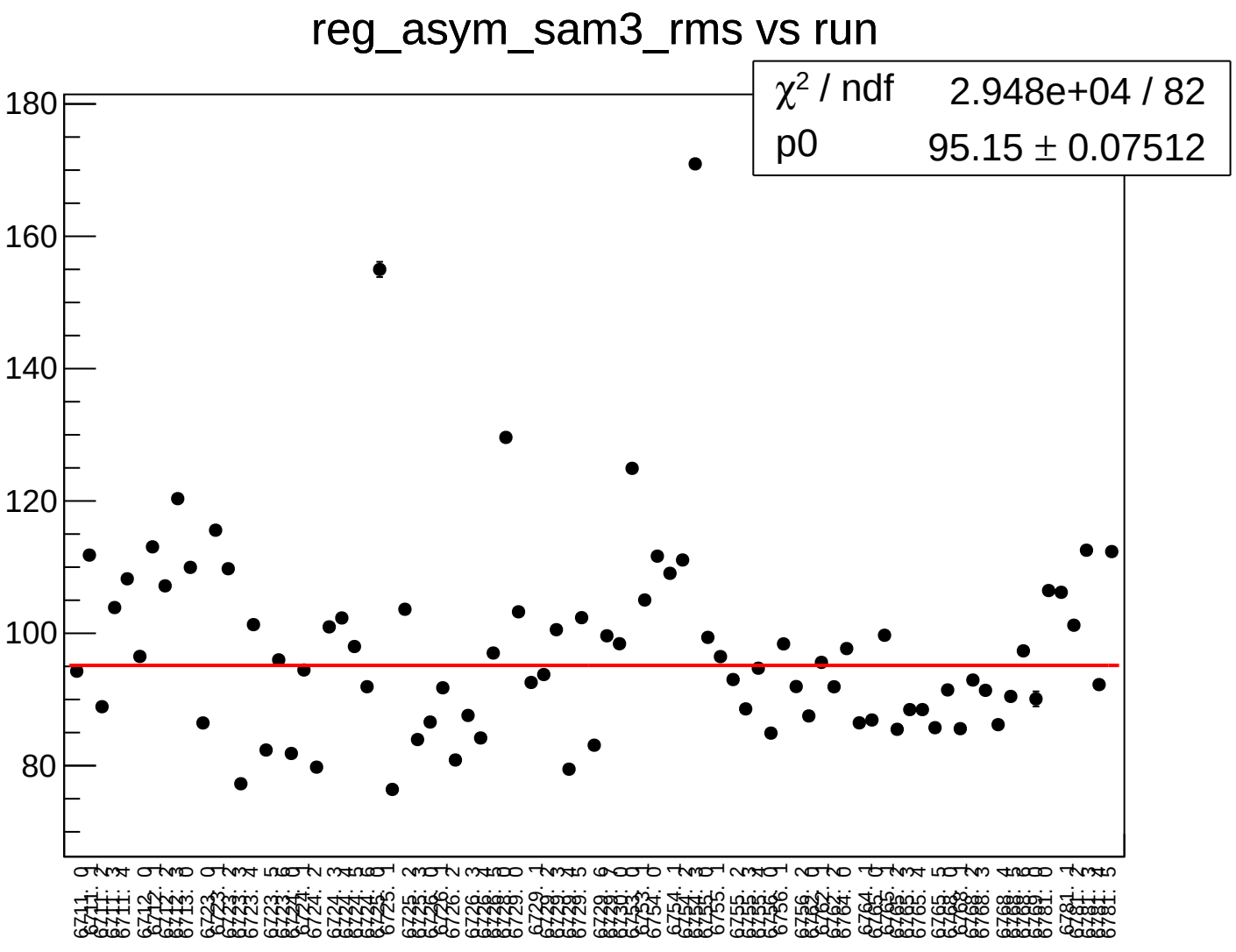

asym_sam2_correction_mean vs run
×10^3
χ^2 / ndf 77.98 / 82
p0 2690 ± 2470
pull
Entries 83
Mean 134
Std Dev 39.47

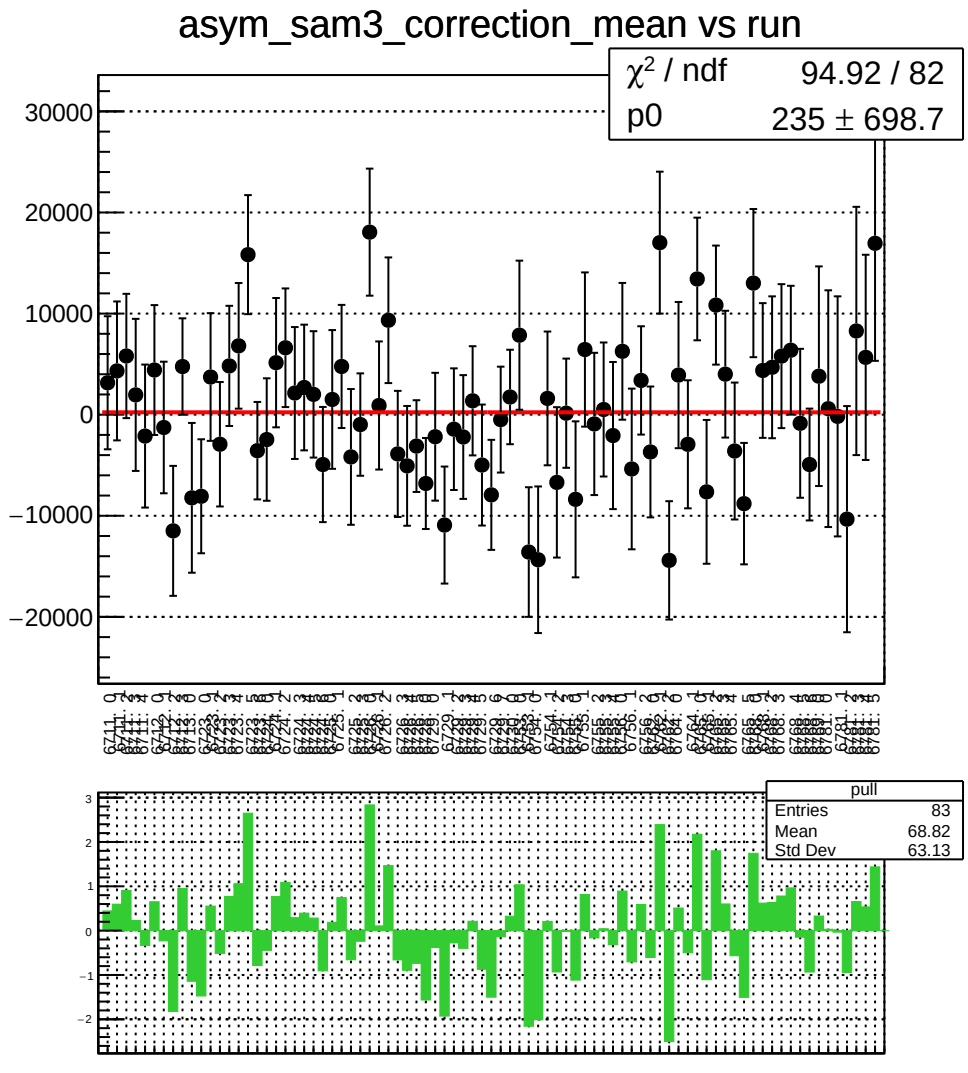

pull1D
Entries 83
Mean 0.0177
Std Dev 0.9692

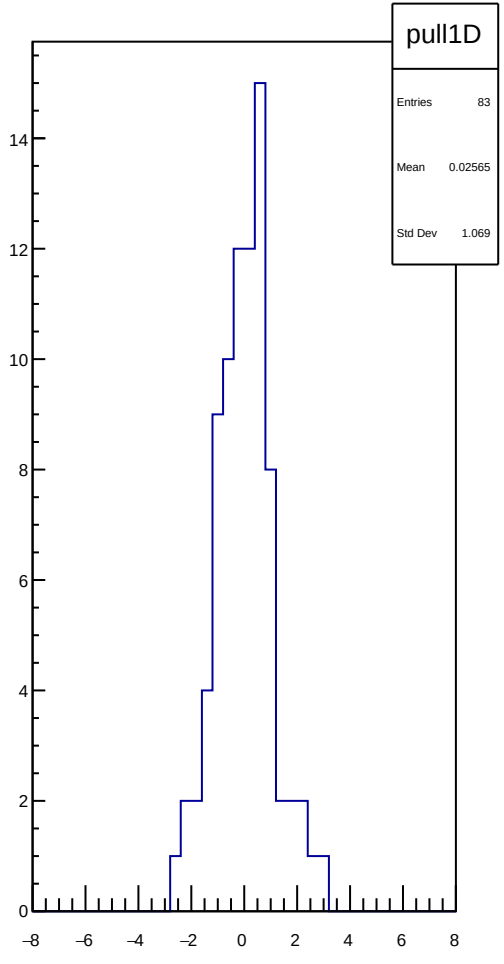

asym_sam2_correction_rms vs run
χ² / ndf 1.813e+04 / 82
p0 2220 ± 1.746
3200
3000
2800
2600
2400
2200
2000

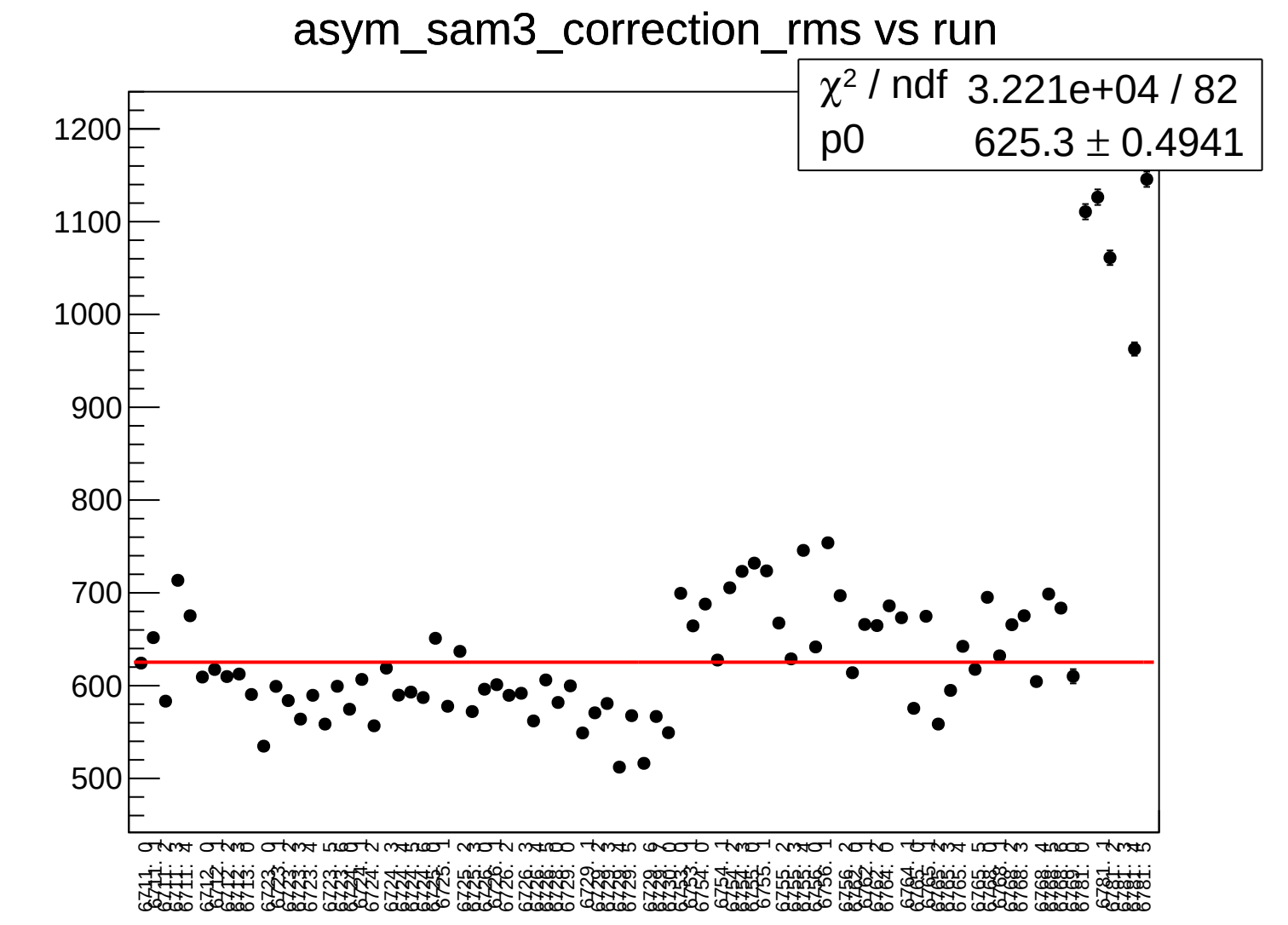

reg_asym_sam3_mean vs run
χ² / ndf 73.85 / 82
p0 −150.9 ± 106.2
pull
Entries 83
Mean −103.3
Std Dev 141.6

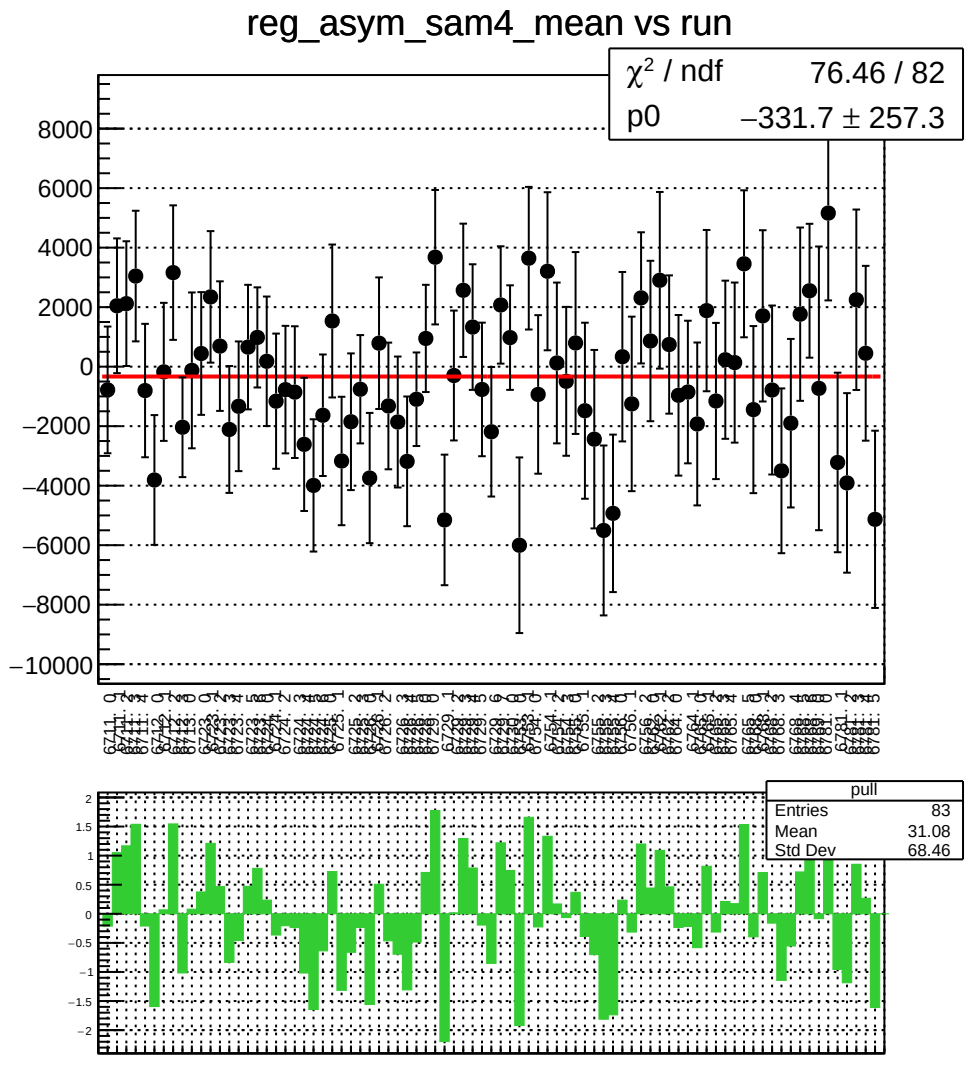

pull1D
Entries 83
Mean 0.02044
Std Dev 0.943

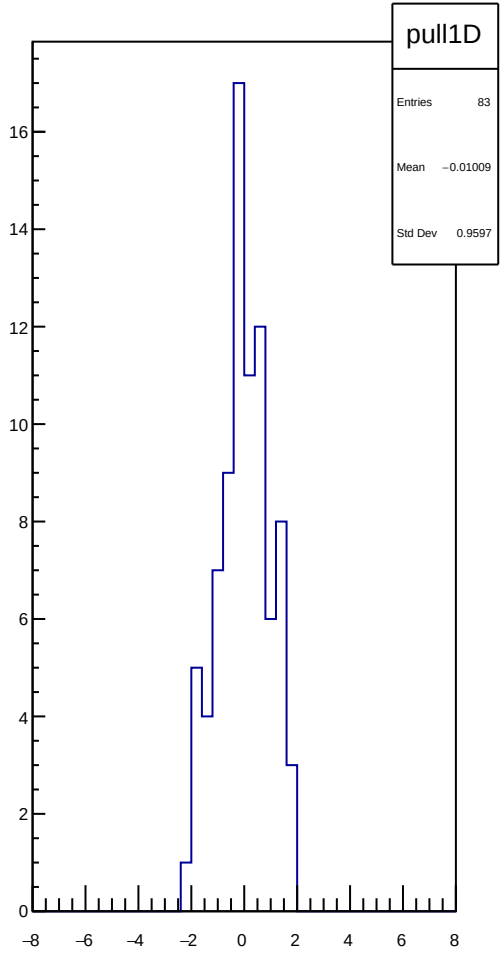

reg_asym_sam3_rms vs run
χ² / ndf 2.948e+04 / 82
p0 95.15 ± 0.07512
180
160
140
120
100
80

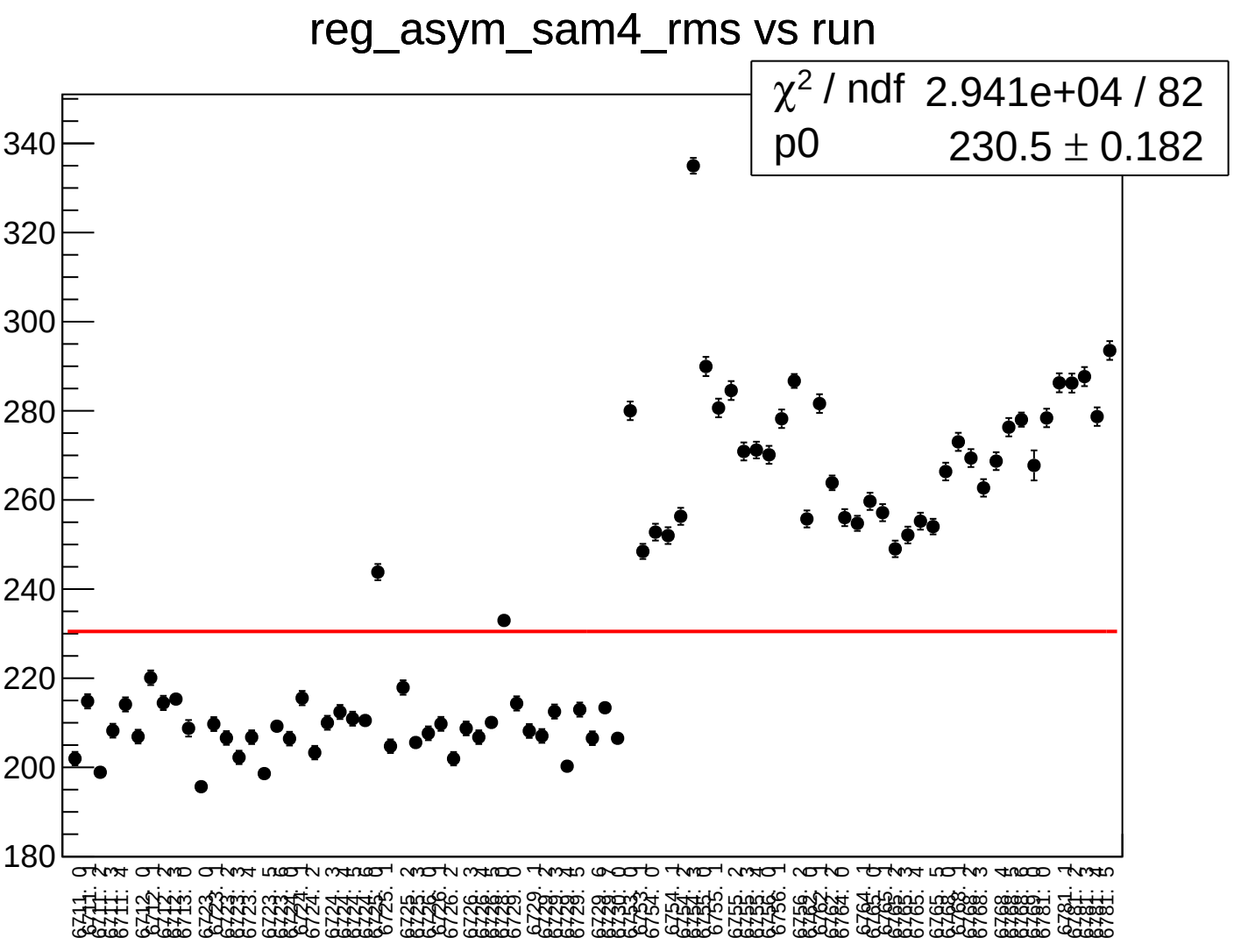

asym_sam3_correction_mean vs run
χ² / ndf 94.92 / 82
p0 235 ± 698.7
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 68.82
Std Dev 63.13
3
2
1
0
−1
−2

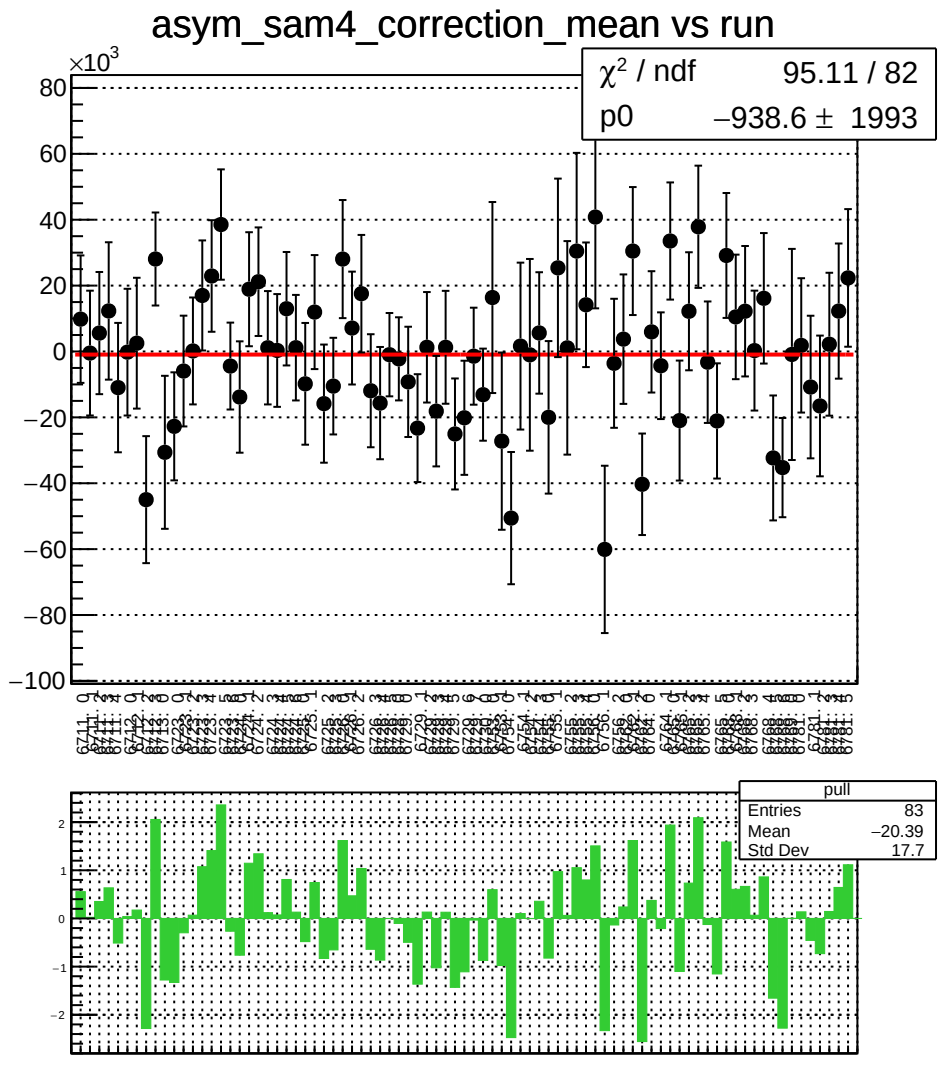

pull1D
Entries 83
Mean 0.02565
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

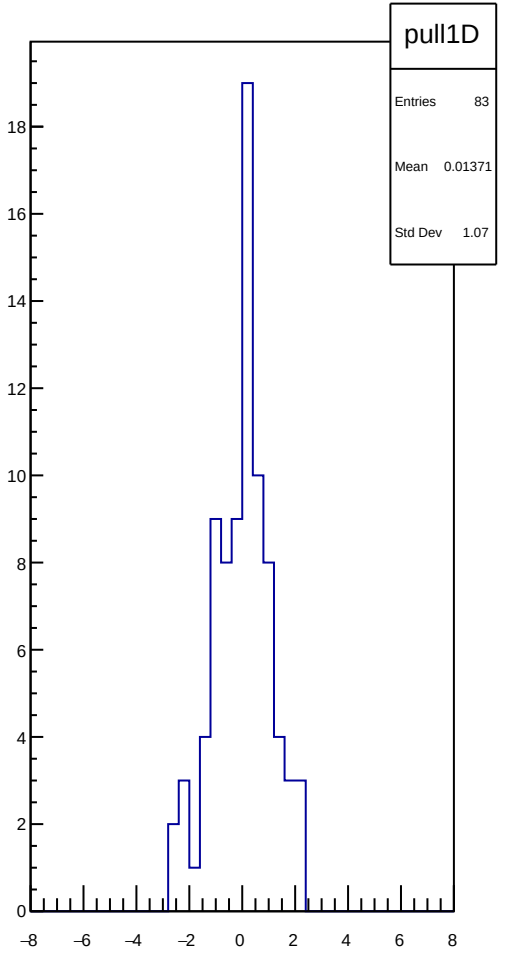

asym_sam3_correction_rms vs run
χ² / ndf 3.221e+04 / 82
p0 625.3 ± 0.4941
1200
1100
1000
900
800
700
600
500

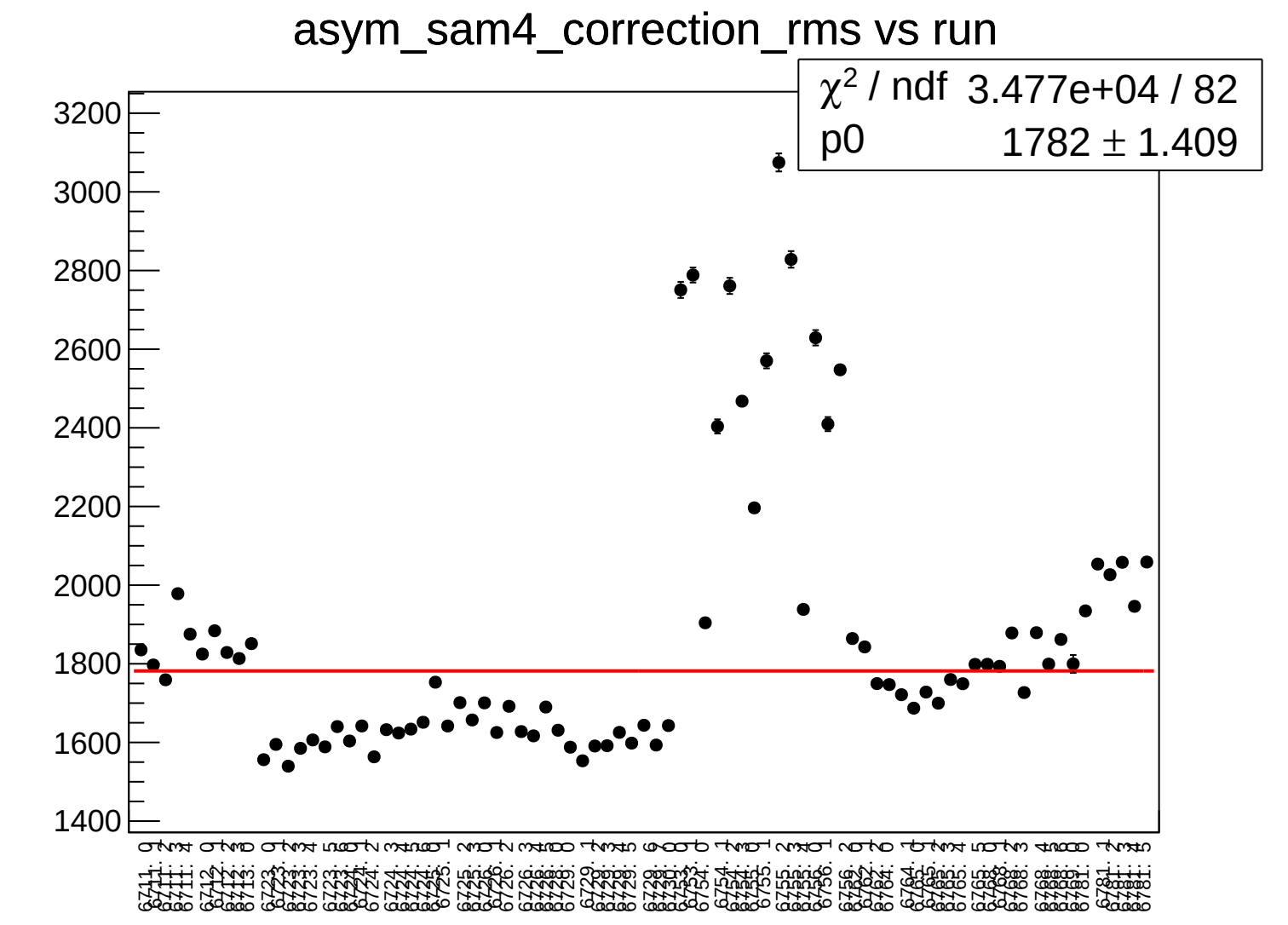

reg_asym_sam4_mean vs run
χ² / ndf 76.46 / 82
p0 −331.7 ± 257.3
pull
Entries 83
Mean 31.08
Std Dev 68.46

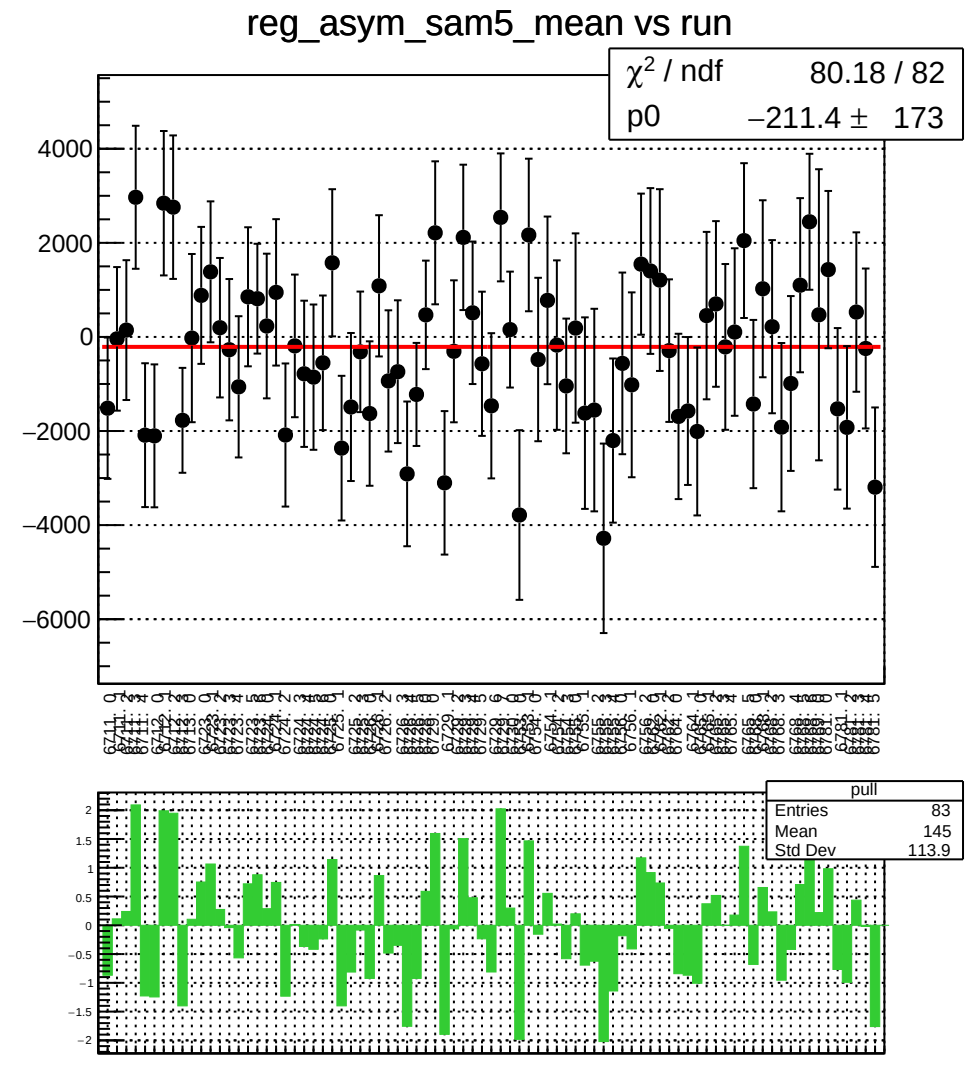

pull1D
Entries 83
Mean −0.01009
Std Dev 0.9597

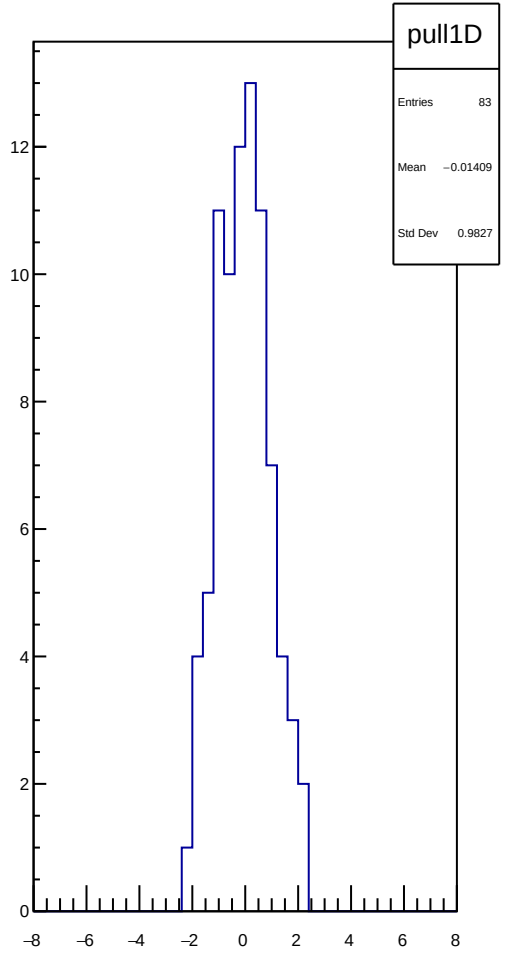

reg_asym_sam4_rms vs run
χ^2 / ndf 2.941e+04 / 82
p0 230.5 ± 0.182
340
320
300
280
260
240
220
200
180

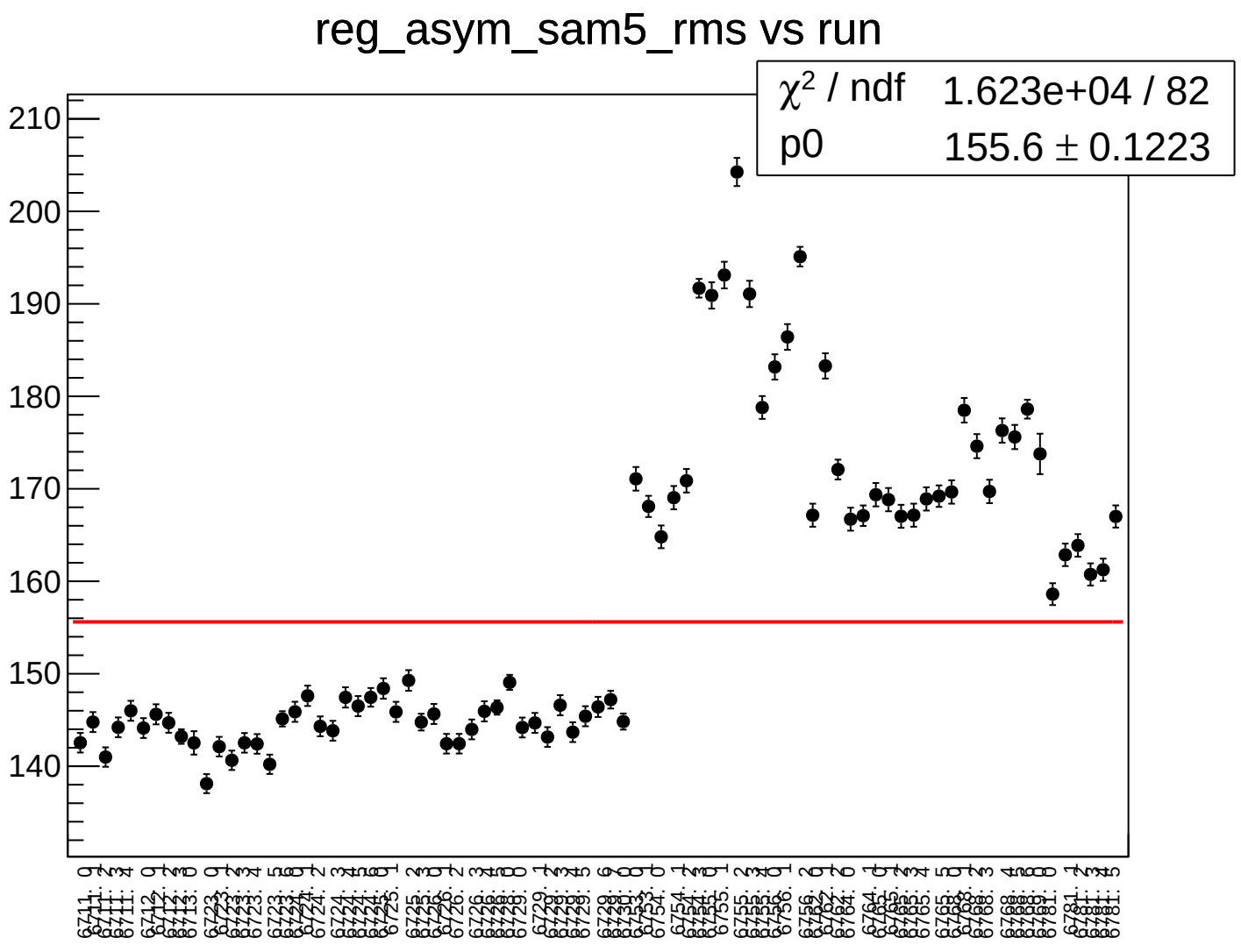

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 95.11 / 82
p0 −938.6 ± 1993
pull
Entries 83
Mean −20.39
Std Dev 17.7

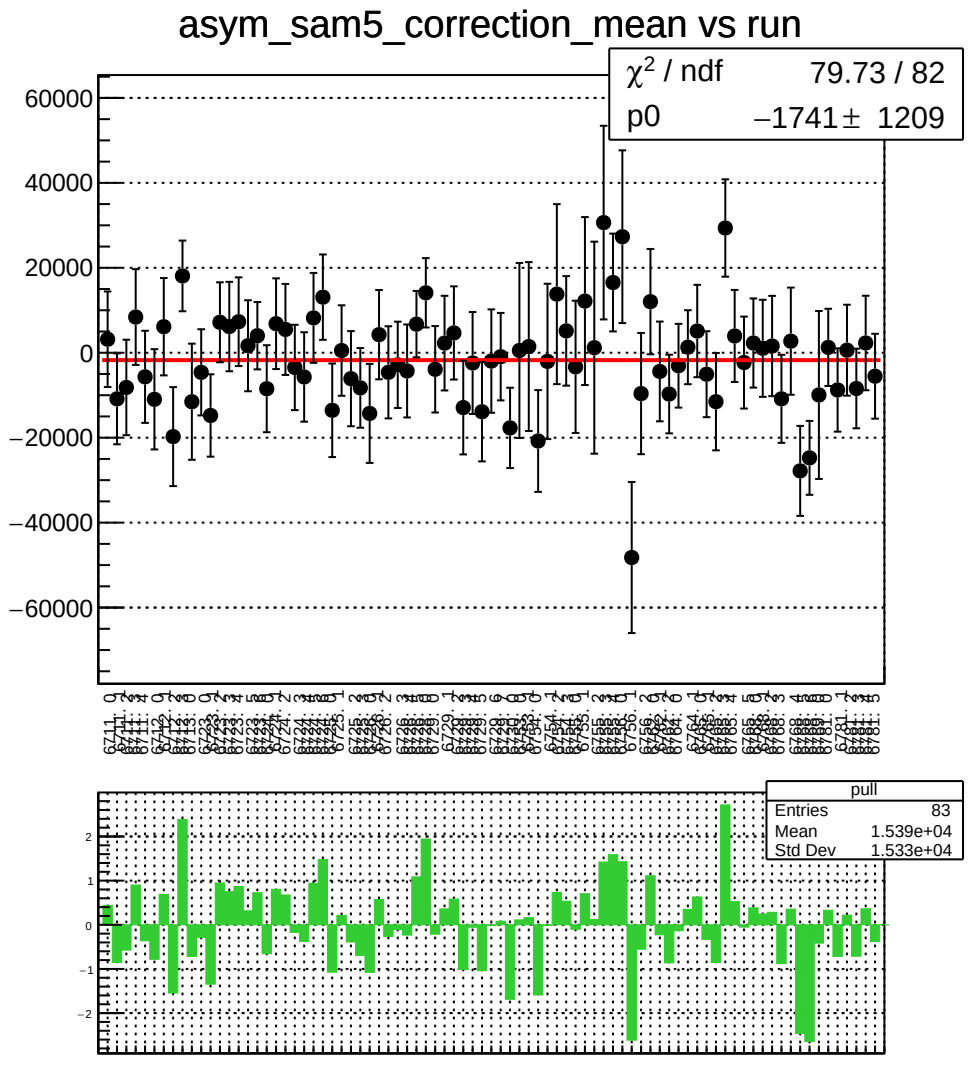

pull1D
Entries 83
Mean 0.01371
Std Dev 1.07

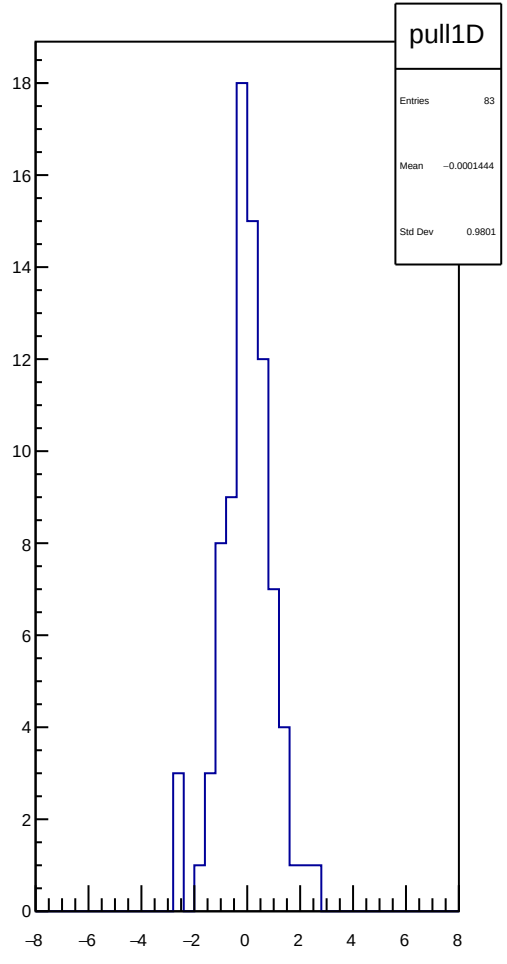

asym_sam4_correction_rms vs run
χ² / ndf 3.477e+04 / 82
p0 1782 ± 1.409
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

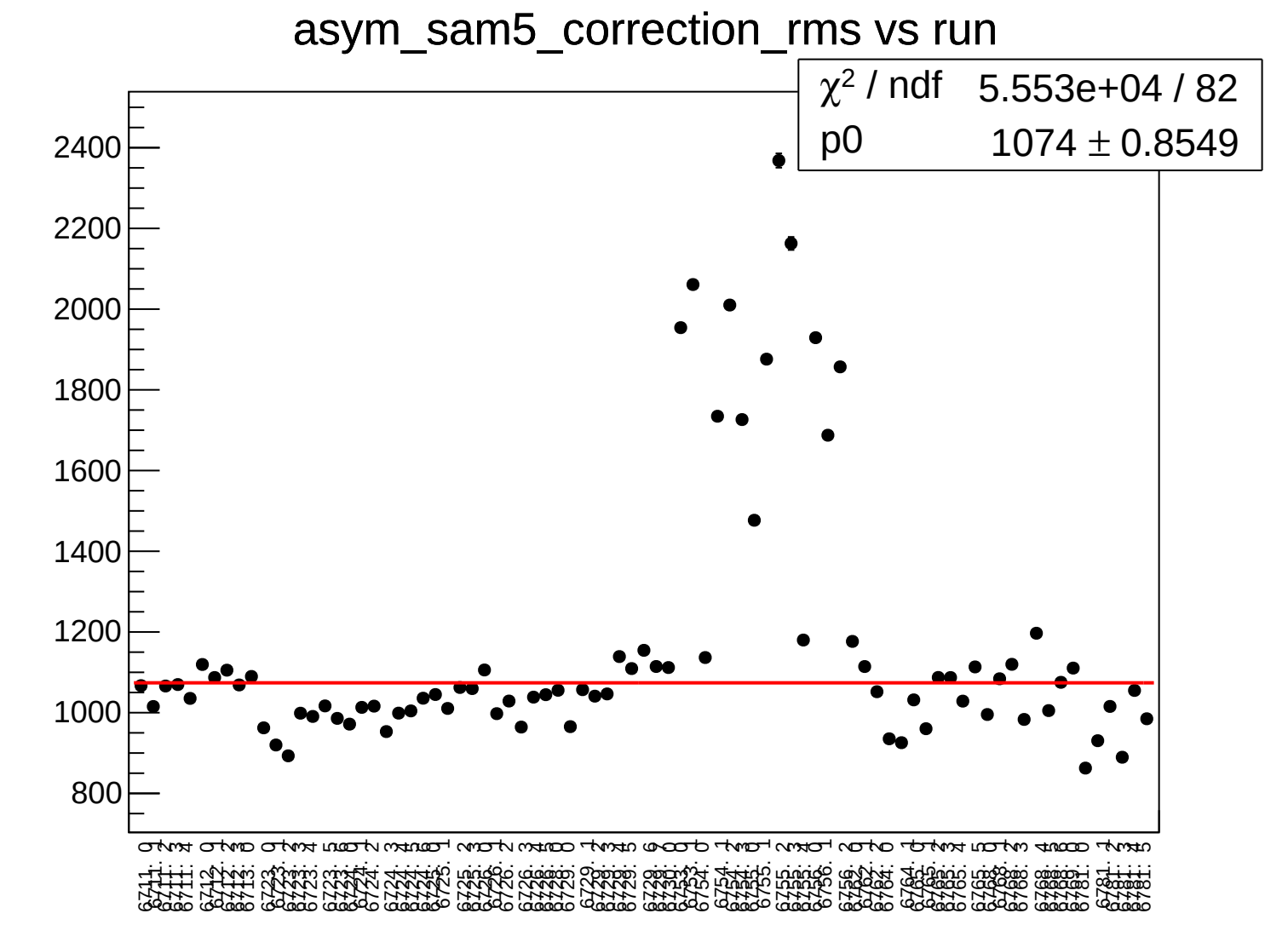

reg_asym_sam5_mean vs run
χ² / ndf 80.18 / 82
p0 −211.4 ± 173
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean 145
Std Dev 113.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

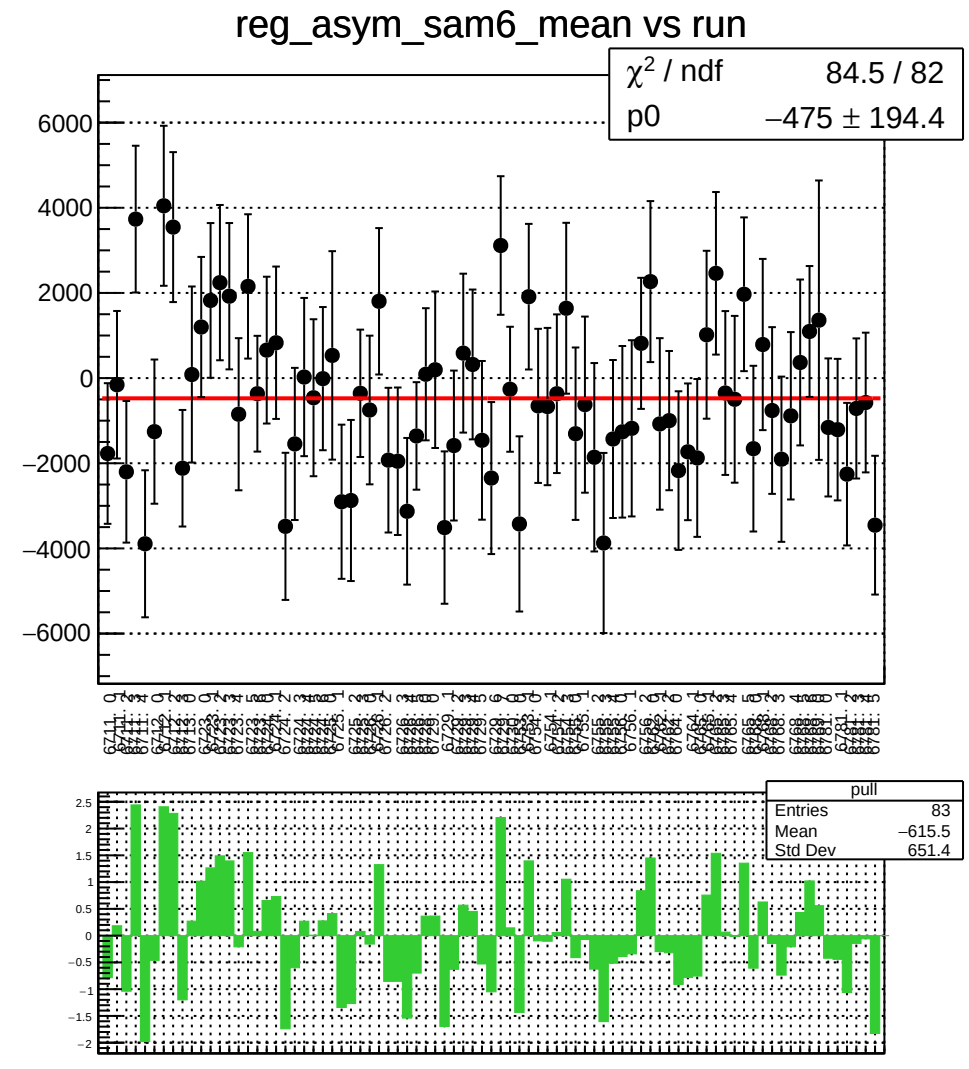

pull1D
Entries 83
Mean −0.01409
Std Dev 0.9827
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

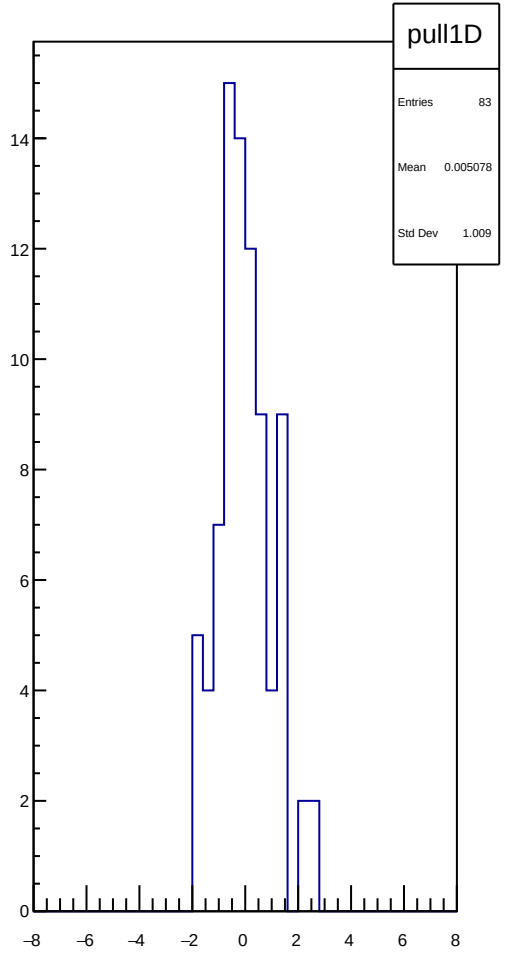

reg_asym_sam5_rms vs run
χ² / ndf 1.623e+04 / 82
p0 155.6 ± 0.1223
210
200
190
180
170
160
150
140


asym_sam5_correction_mean vs run
χ² / ndf 79.73 / 82
p0 −1741 ± 1209
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 1.539e+04
Std Dev 1.533e+04
2
1
0
−1
−2

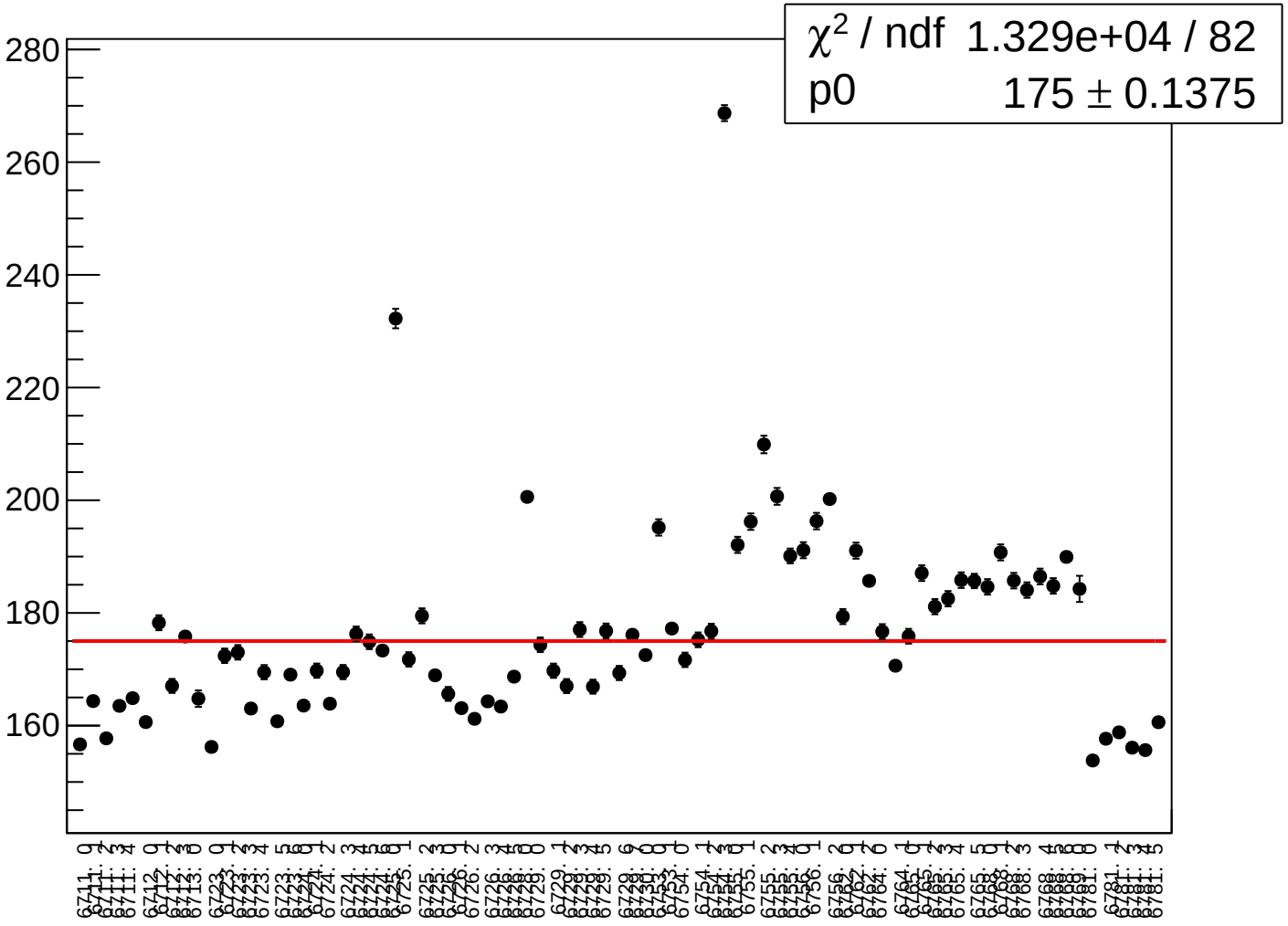

pull1D
Entries 83
Mean −0.0001444
Std Dev 0.9801
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

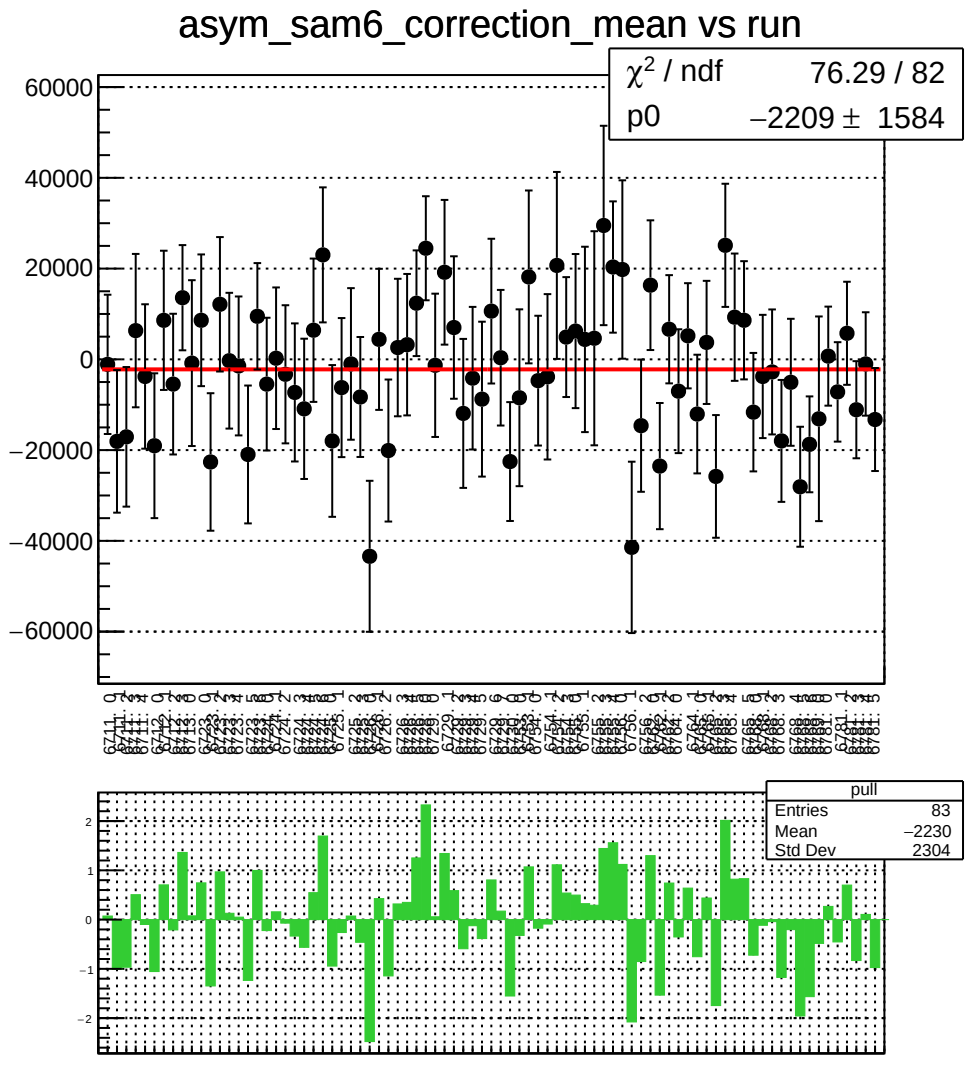

asym_sam5_correction_rms vs run
χ² / ndf 5.553e+04 / 82
p0 1074 ± 0.8549
2400
2200
2000
1800
1600
1400
1200
1000
800

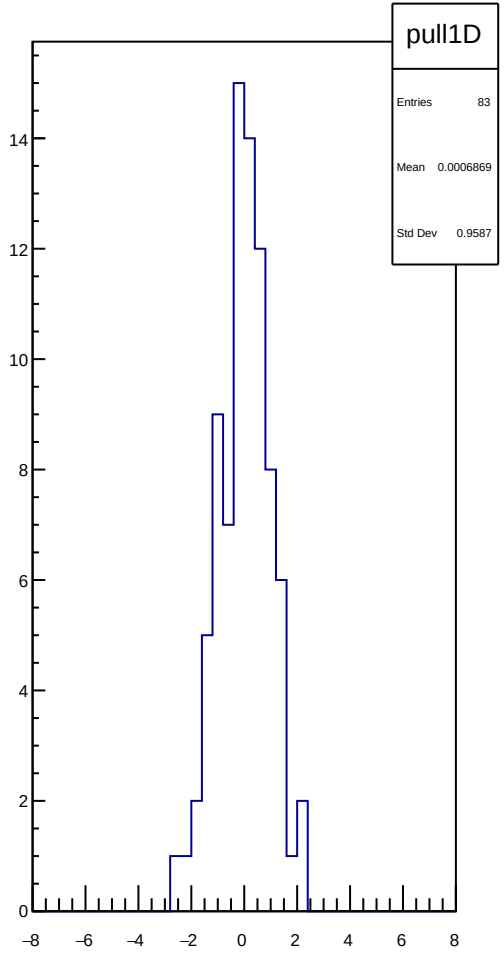

reg_asym_sam6_mean vs run
χ² / ndf 84.5 / 82
p0 −475 ± 194.4
pull
Entries 83
Mean −615.5
Std Dev 651.4

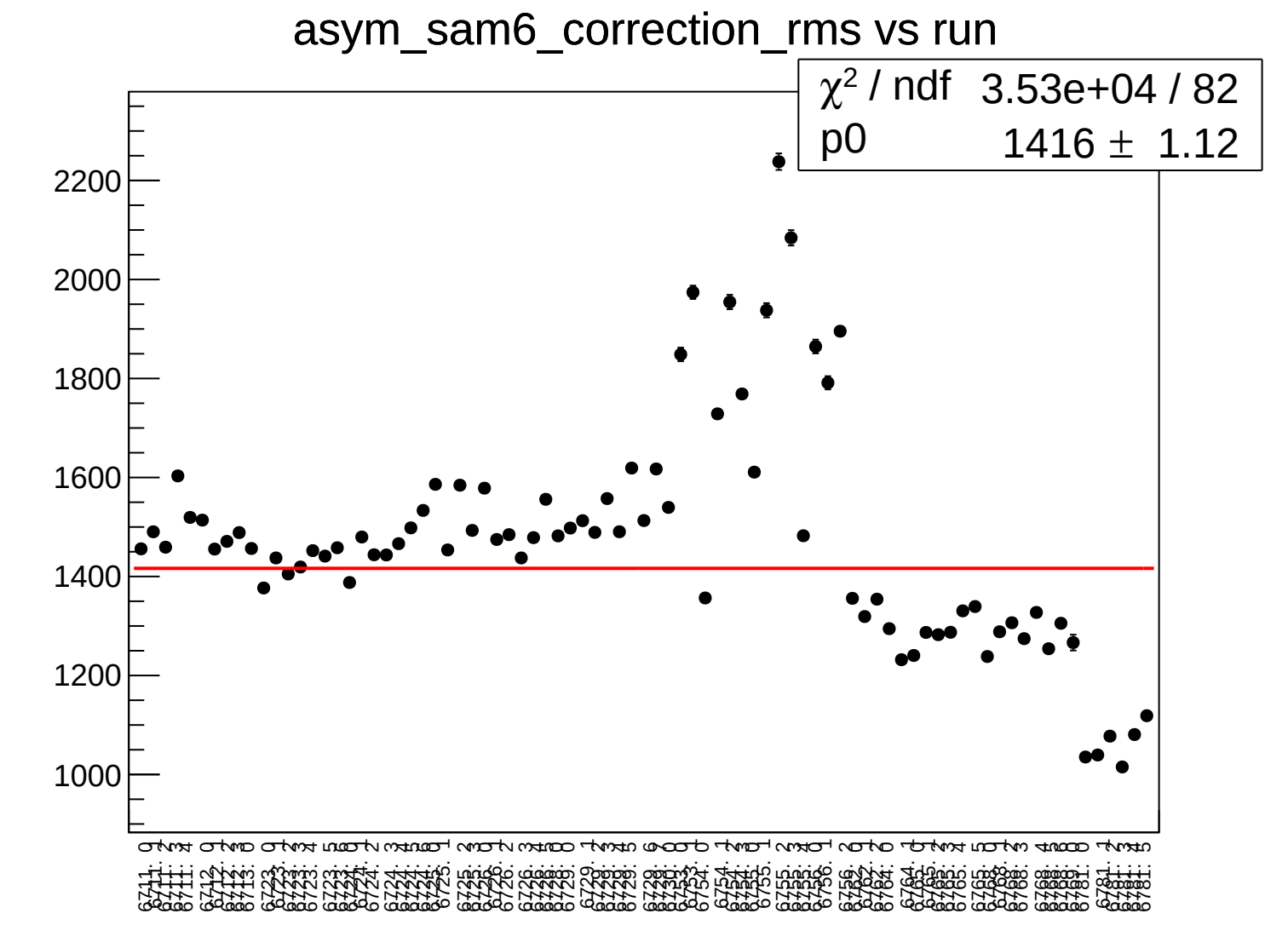

pull1D
Entries 83
Mean 0.005078
Std Dev 1.009

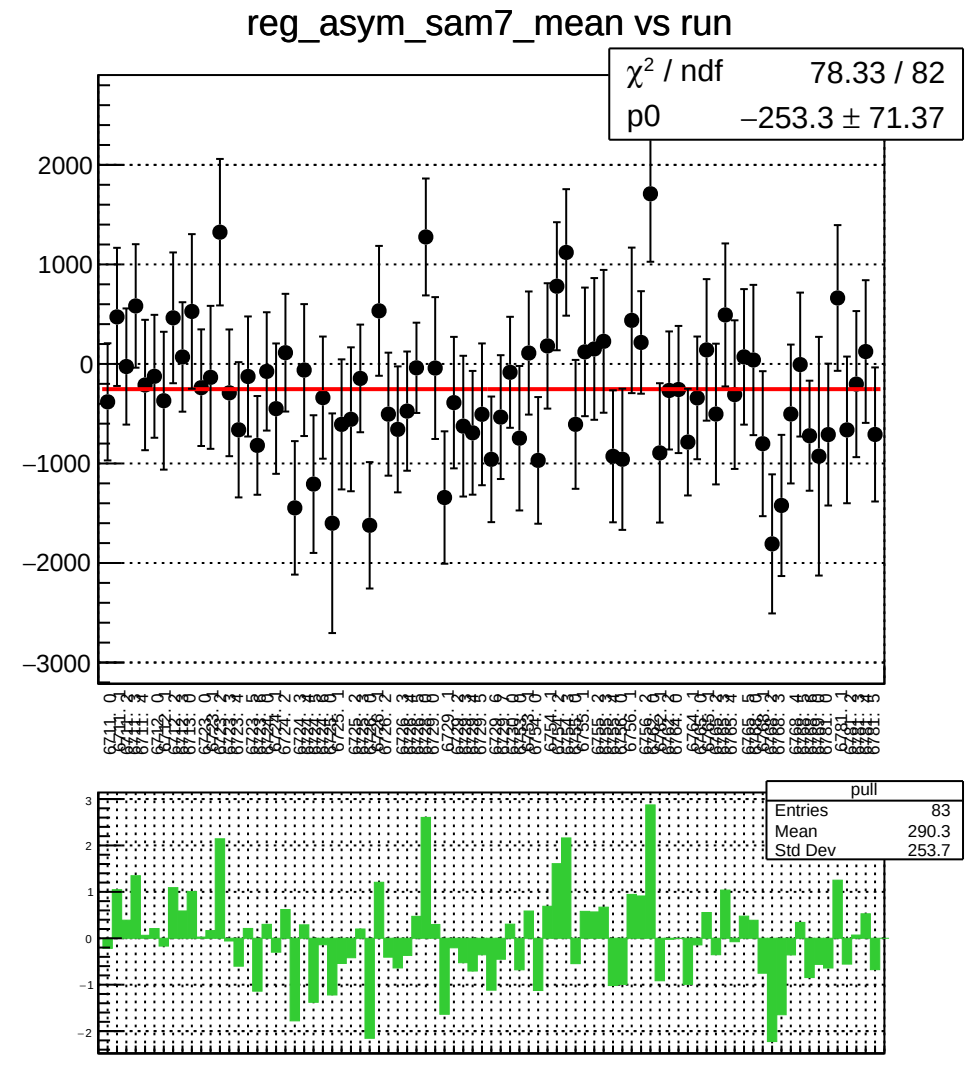
reg_asym_sam6_rms vs run

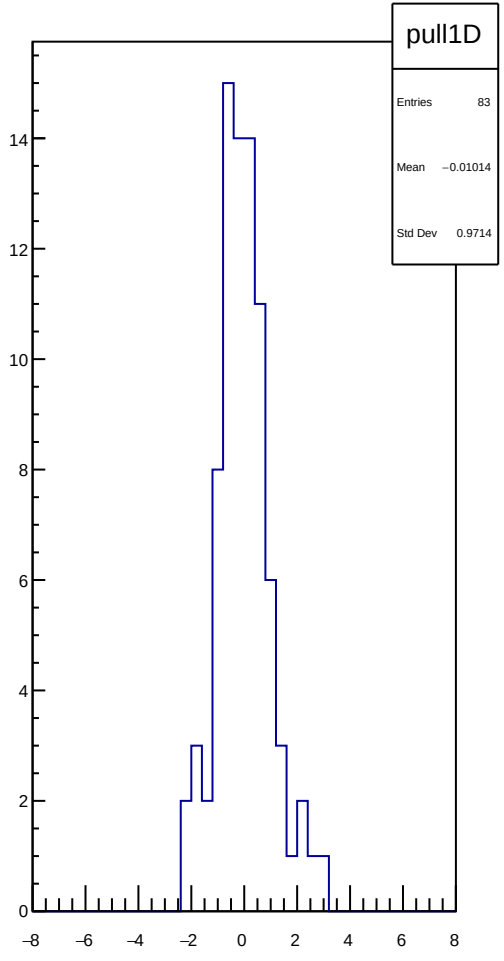


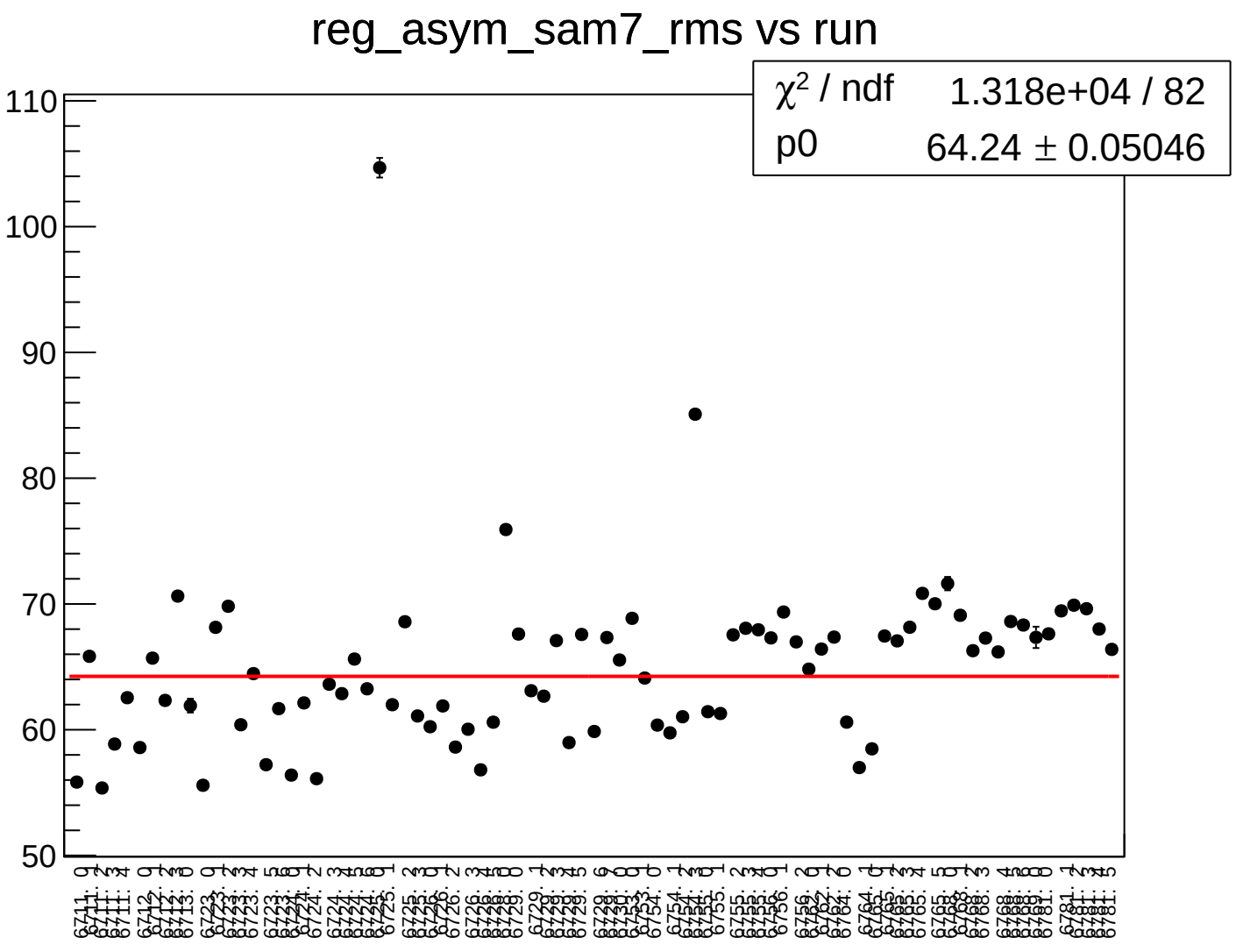

asym_sam6_correction_mean vs run
χ² / ndf 76.29 / 82
p0 −2209 ± 1584
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean −2230
Std Dev 2304
2
1
0
−1
−2

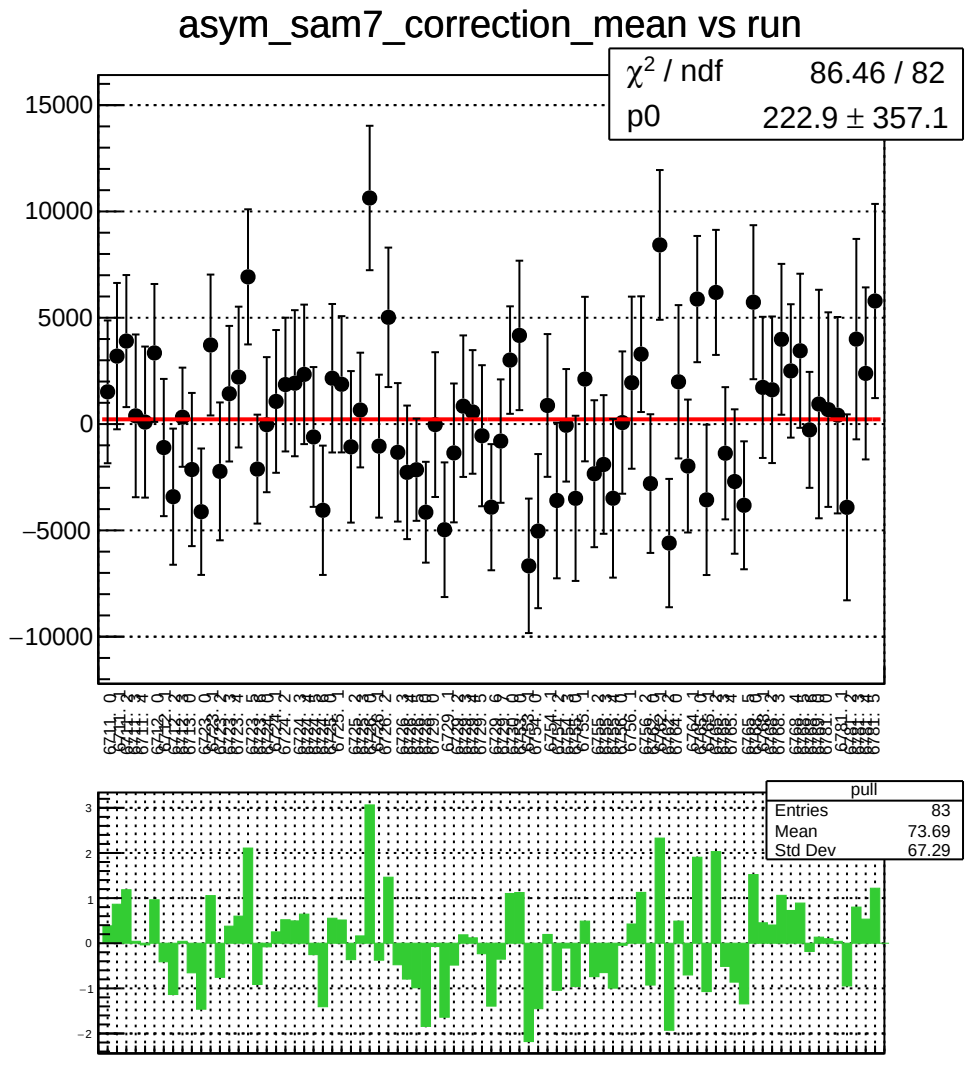

pull1D
Entries 83
Mean 0.0006869
Std Dev 0.9587
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

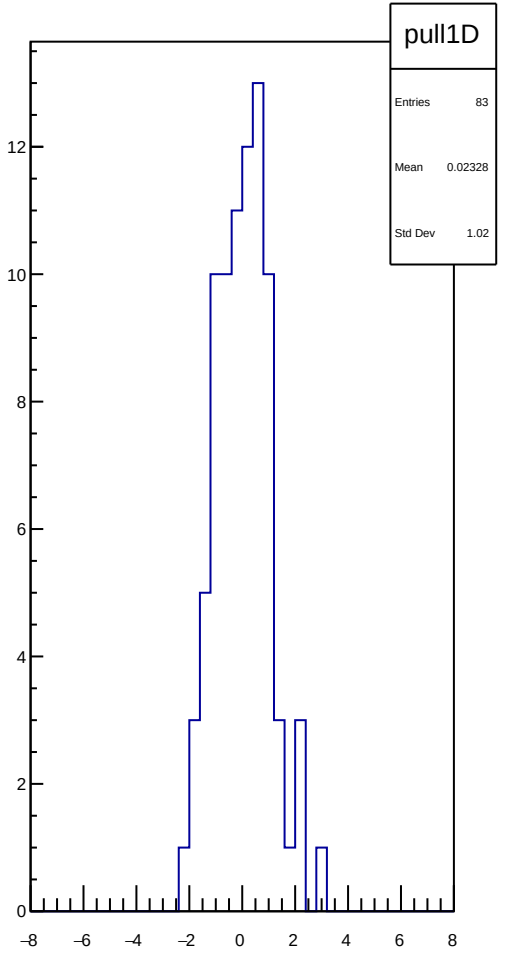

asym_sam6_correction_rms vs run
χ² / ndf 3.53e+04 / 82
p0 1416 ± 1.12
2200
2000
1800
1600
1400
1200
1000


reg_asym_sam7_mean vs run
χ² / ndf 78.33 / 82
p0 −253.3 ± 71.37
2000
1000
0
−1000
−2000
−3000
pull
Entries 83
Mean 290.3
Std Dev 253.7
3
2
1
0
−1
−2

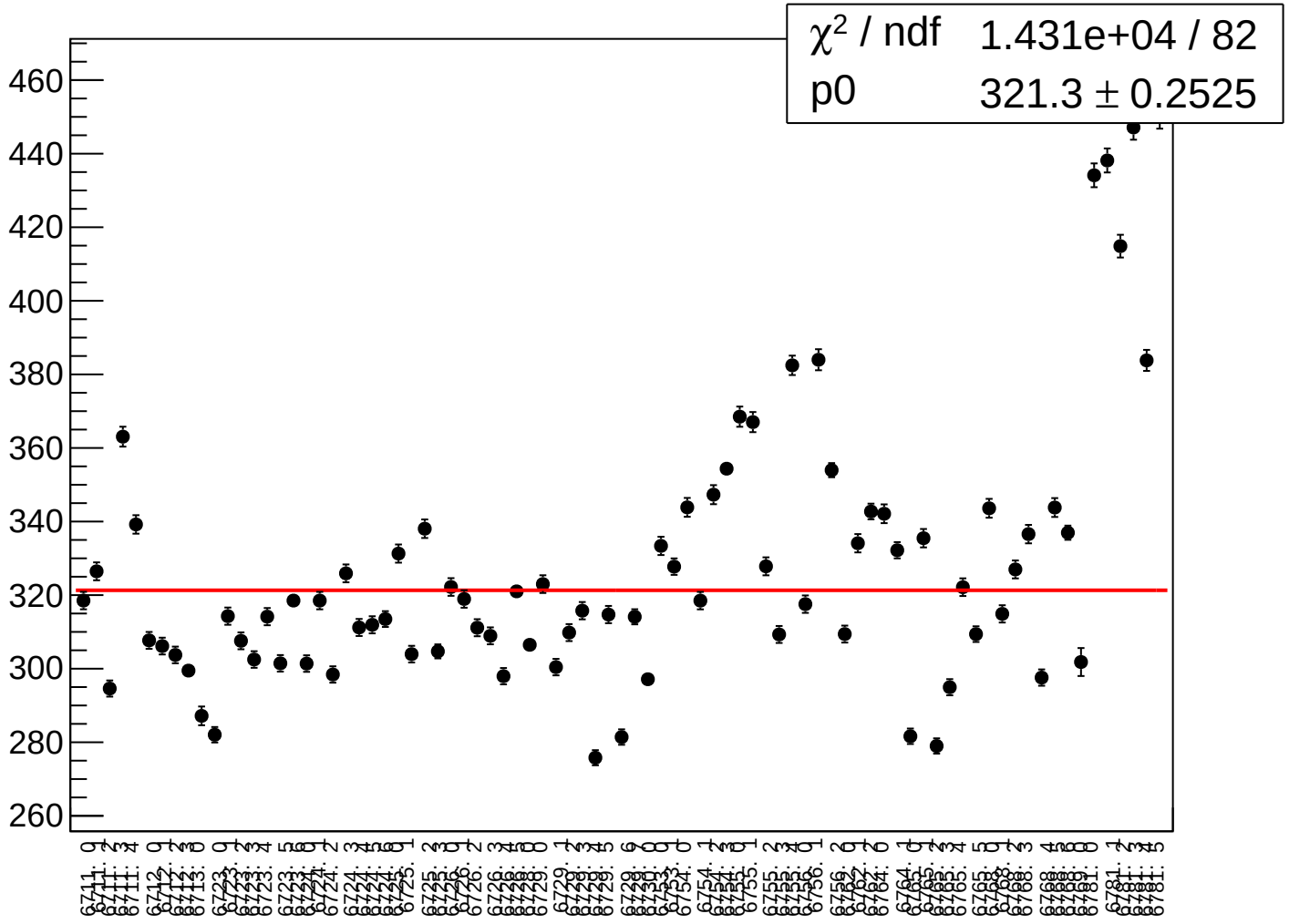

pull1D
Entries 83
Mean −0.01014
Std Dev 0.9714
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

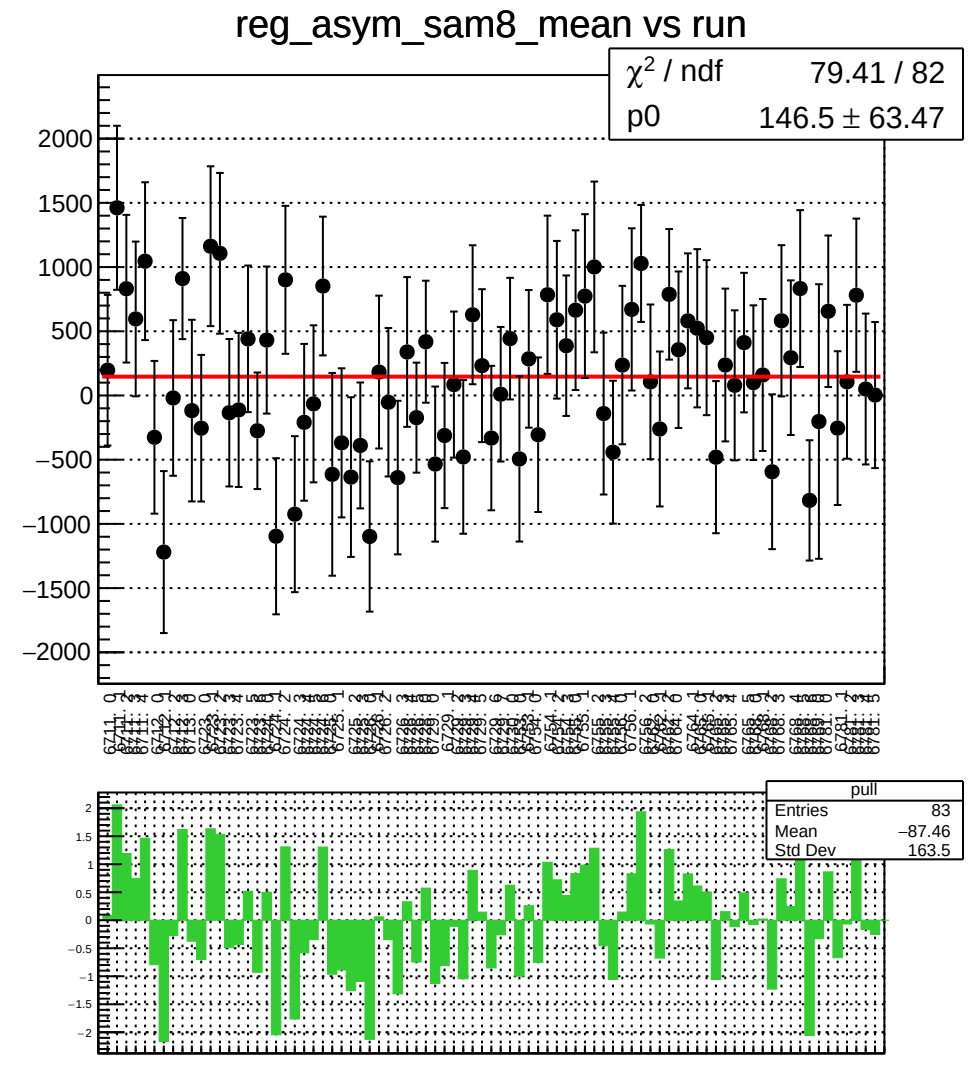

reg_asym_sam7_rms vs run
χ^2 / ndf 1.318e+04 / 82
p0 64.24 ± 0.05046
110
100
90
80
70
60
50

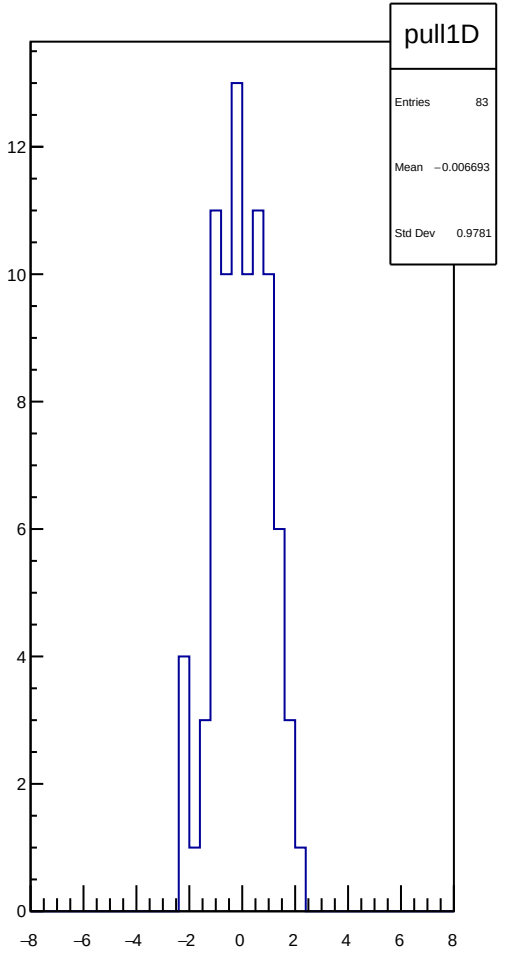

asym_sam7_correction_mean vs run
χ² / ndf 86.46 / 82
p0 222.9 ± 357.1
15000
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 73.69
Std Dev 67.29
3
2
1
0
−1
−2

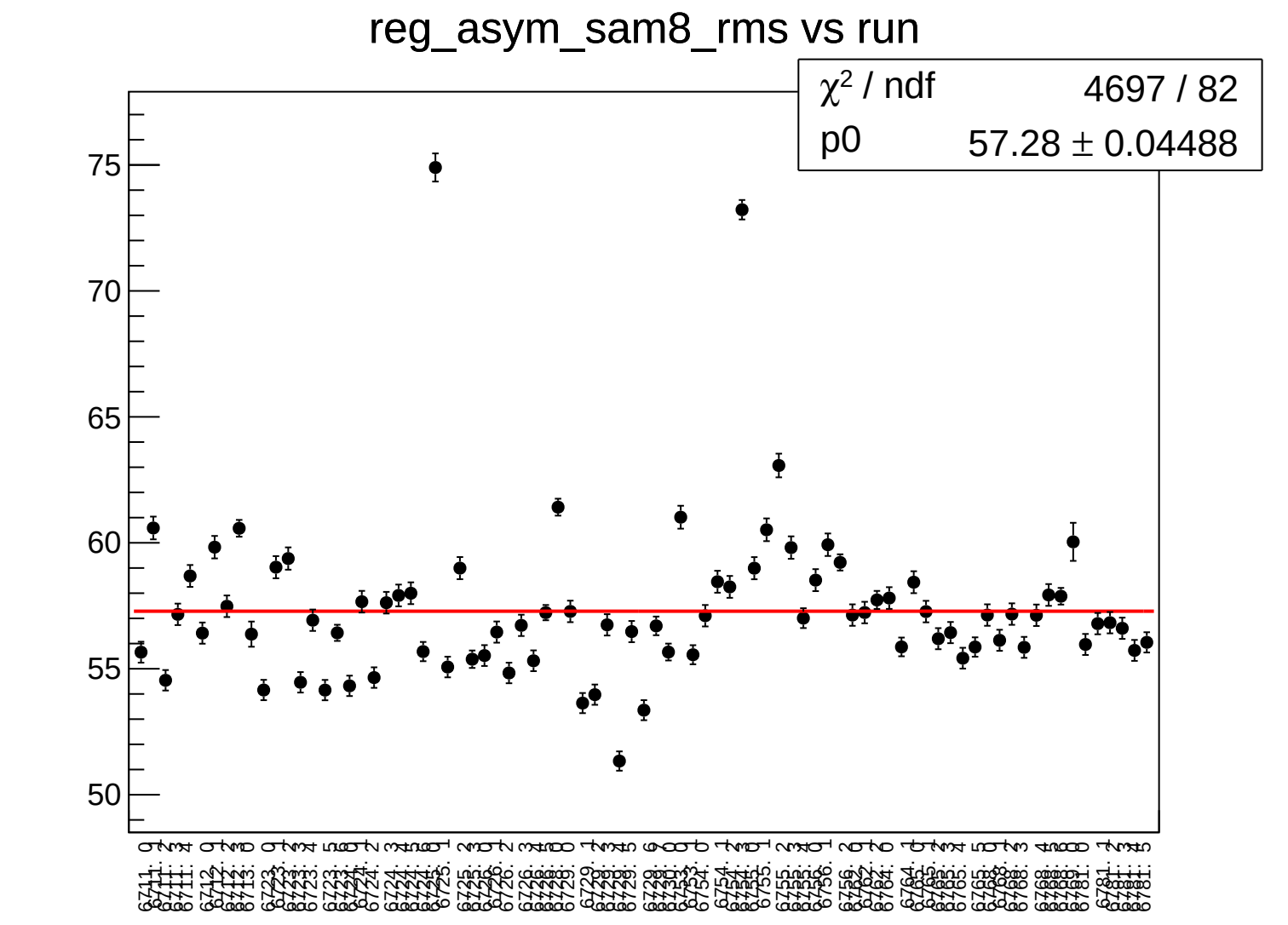

pull1D
Entries 83
Mean 0.02328
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

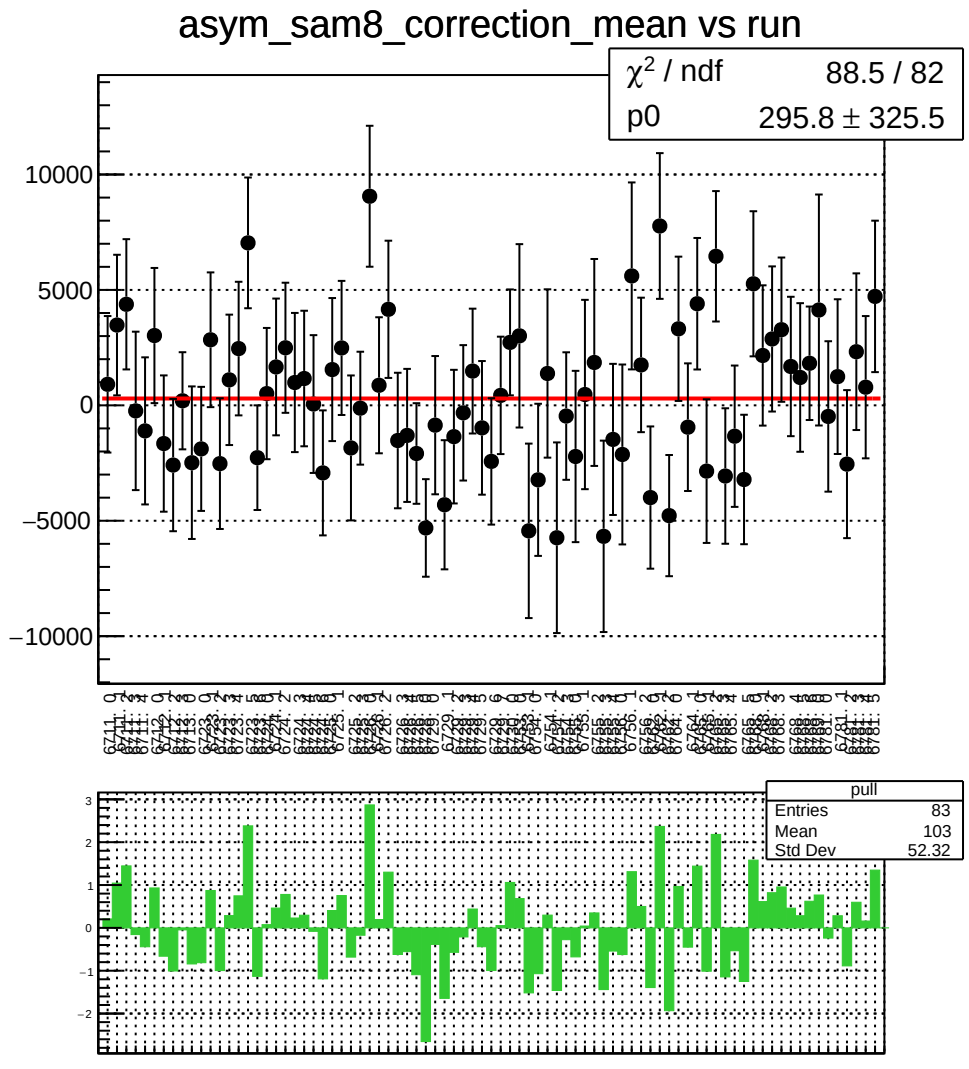
asym_sam7_correction_rms vs run

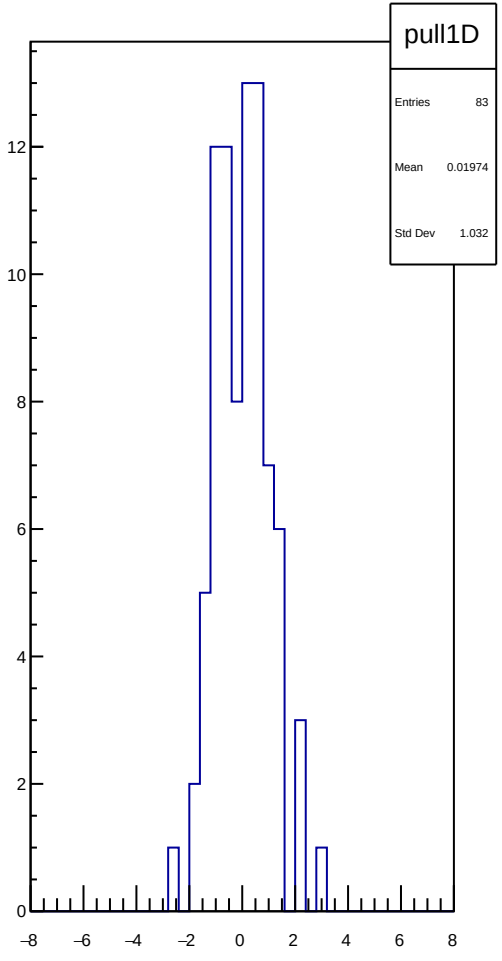



reg_asym_sam8_mean vs run
χ² / ndf 79.41 / 82
p0 146.5 ± 63.47
pull
Entries 83
Mean −87.46
Std Dev 163.5

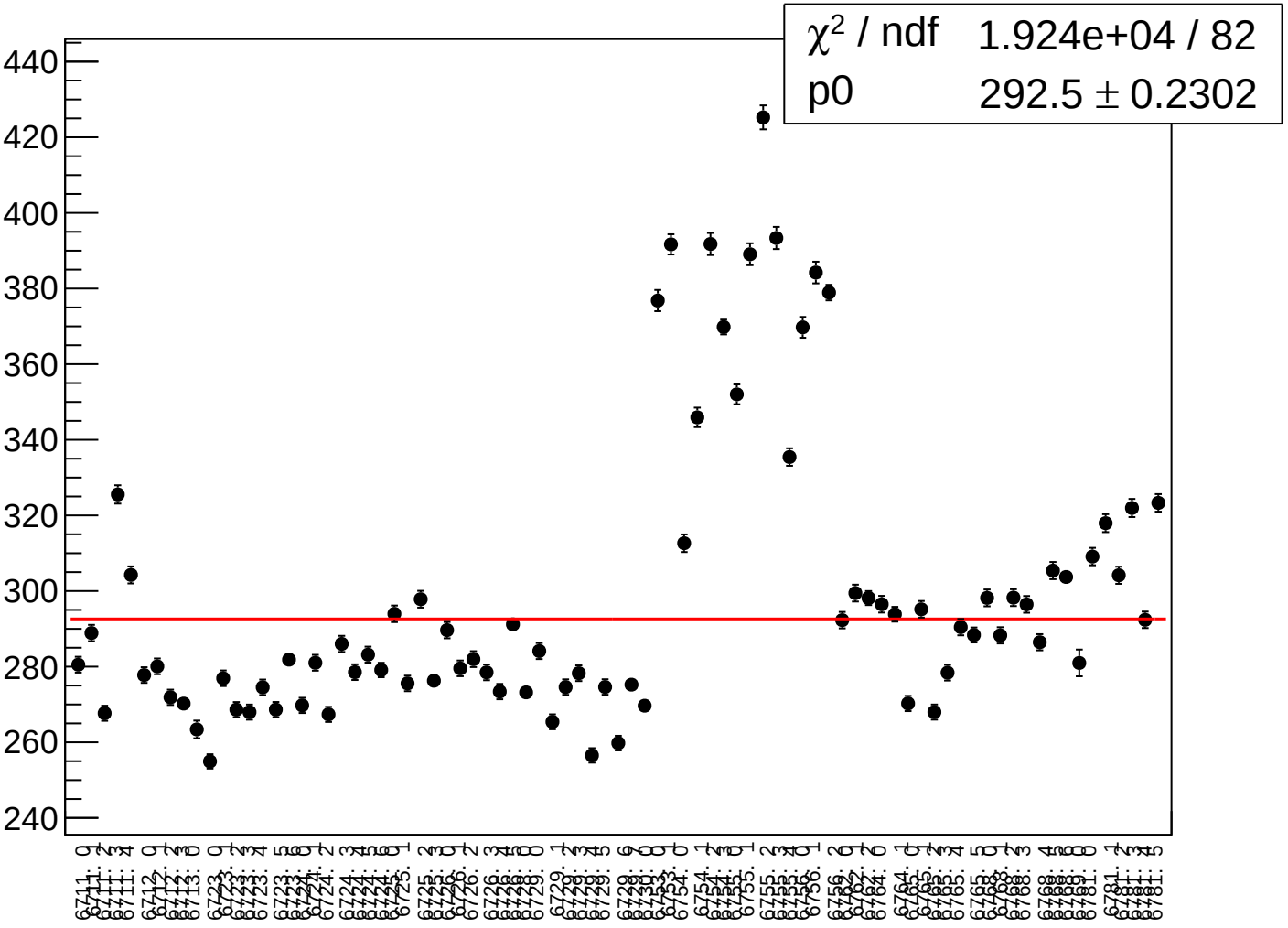

pull1D
Entries 83
Mean −0.006693
Std Dev 0.9781

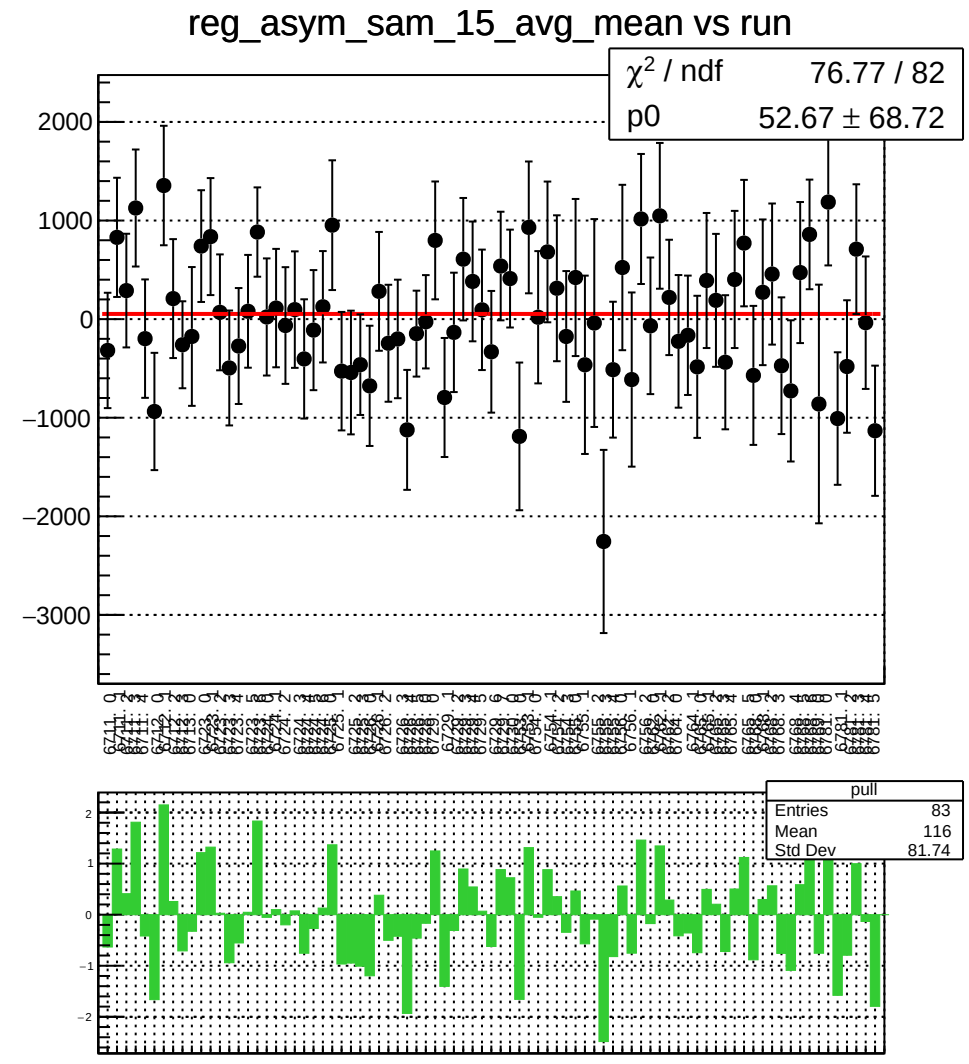

reg_asym_sam8_rms vs run
χ² / ndf 4697 / 82
p0 57.28 ± 0.04488
75
70
65
60
55
50

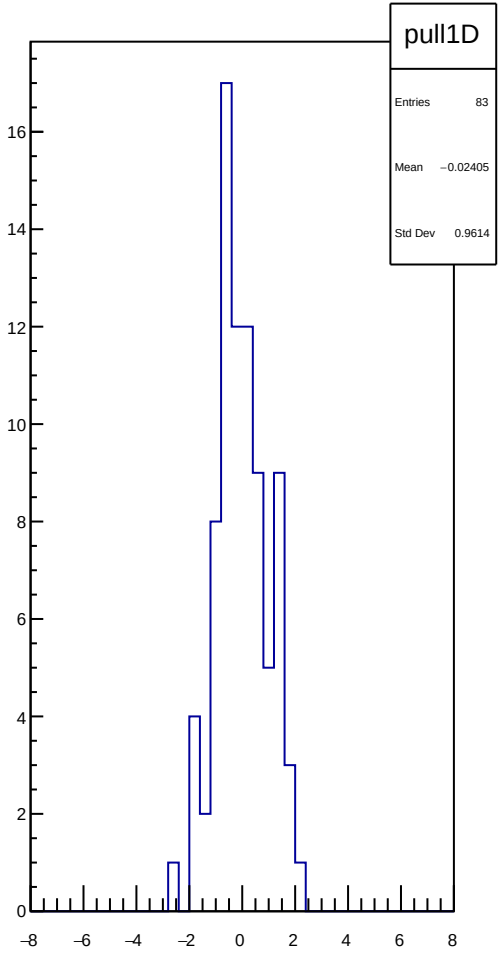

asym_sam8_correction_mean vs run
χ² / ndf 88.5 / 82
p0 295.8 ± 325.5
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 103
Std Dev 52.32
3
2
1
0
−1
−2

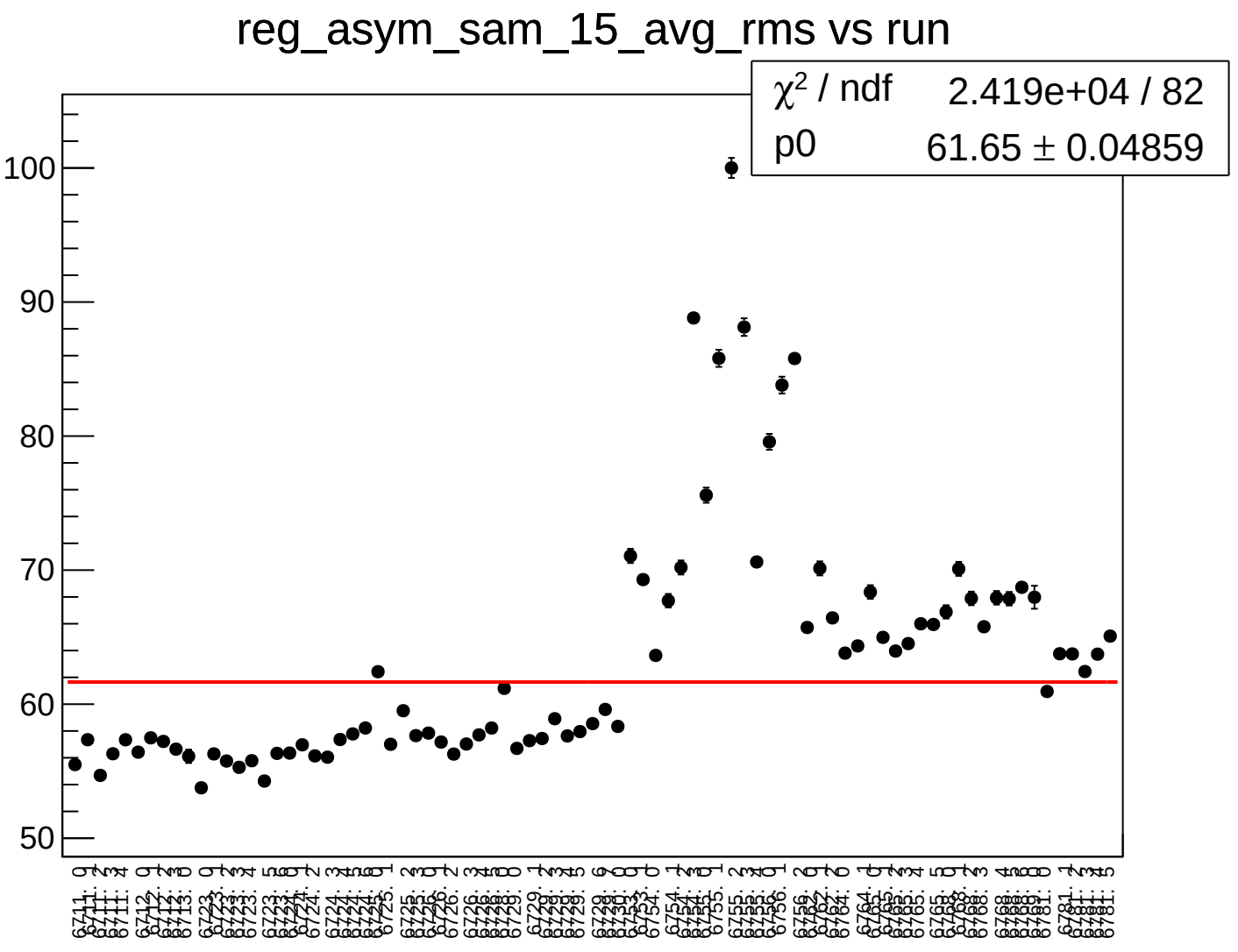

pull1D
Entries 83
Mean 0.01974
Std Dev 1.032
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

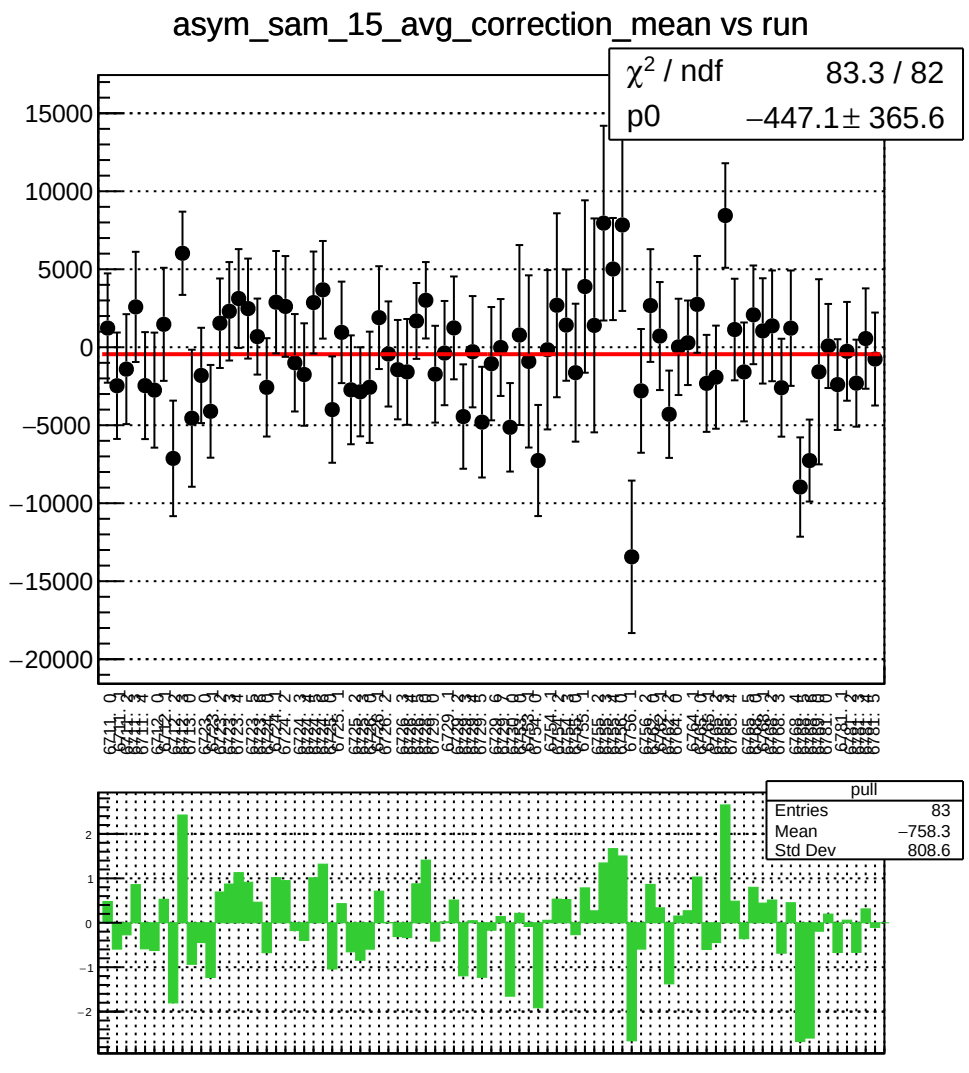
asym_sam8_correction_rms vs run

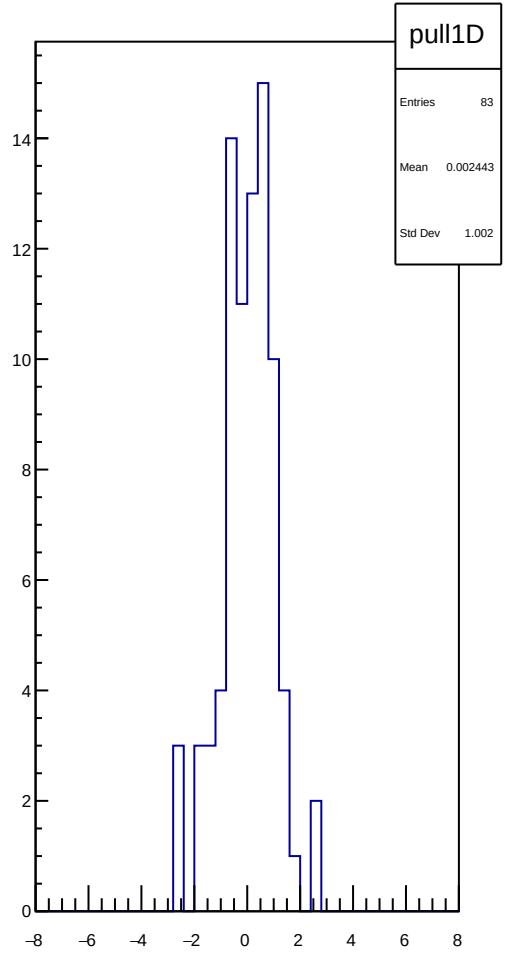


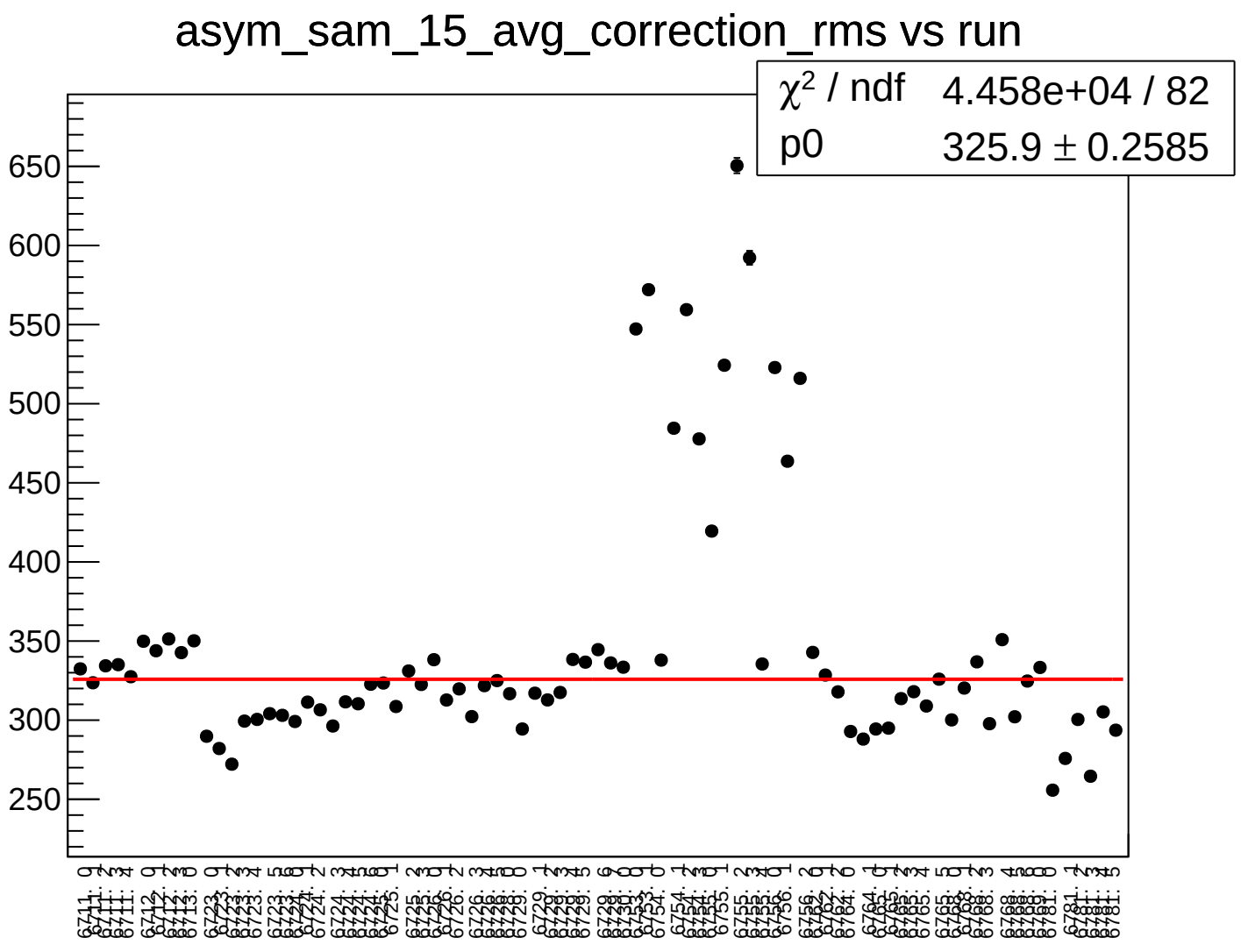

reg_asym_sam_15_avg_mean vs run
χ² / ndf 76.77 / 82
p0 52.67 ± 68.72
2000
1000
0
−1000
−2000
−3000
pull
Entries 83
Mean 116
Std Dev 81.74
2
1
0
−1
−2

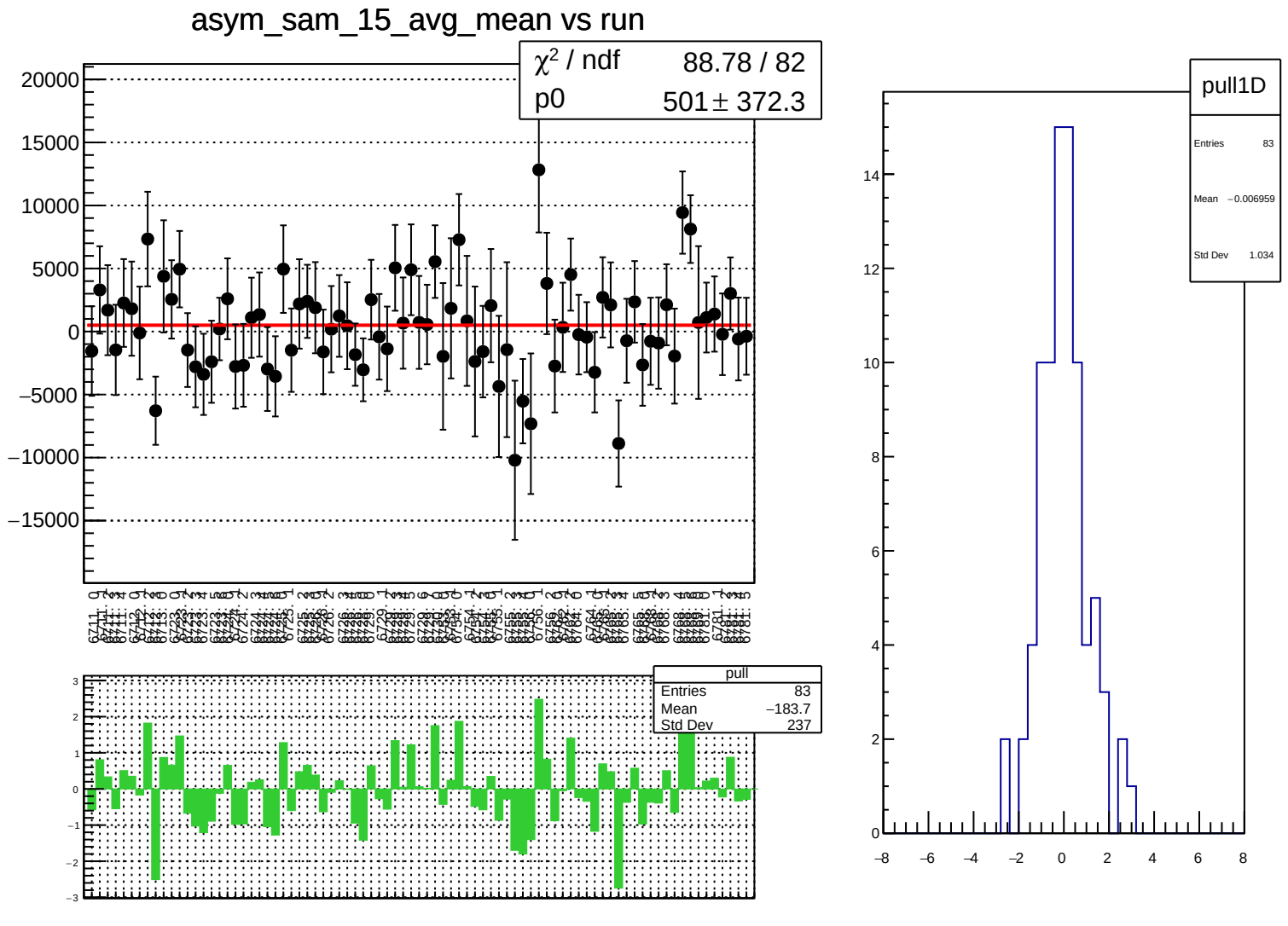

pull1D
Entries 83
Mean −0.02405
Std Dev 0.9614
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

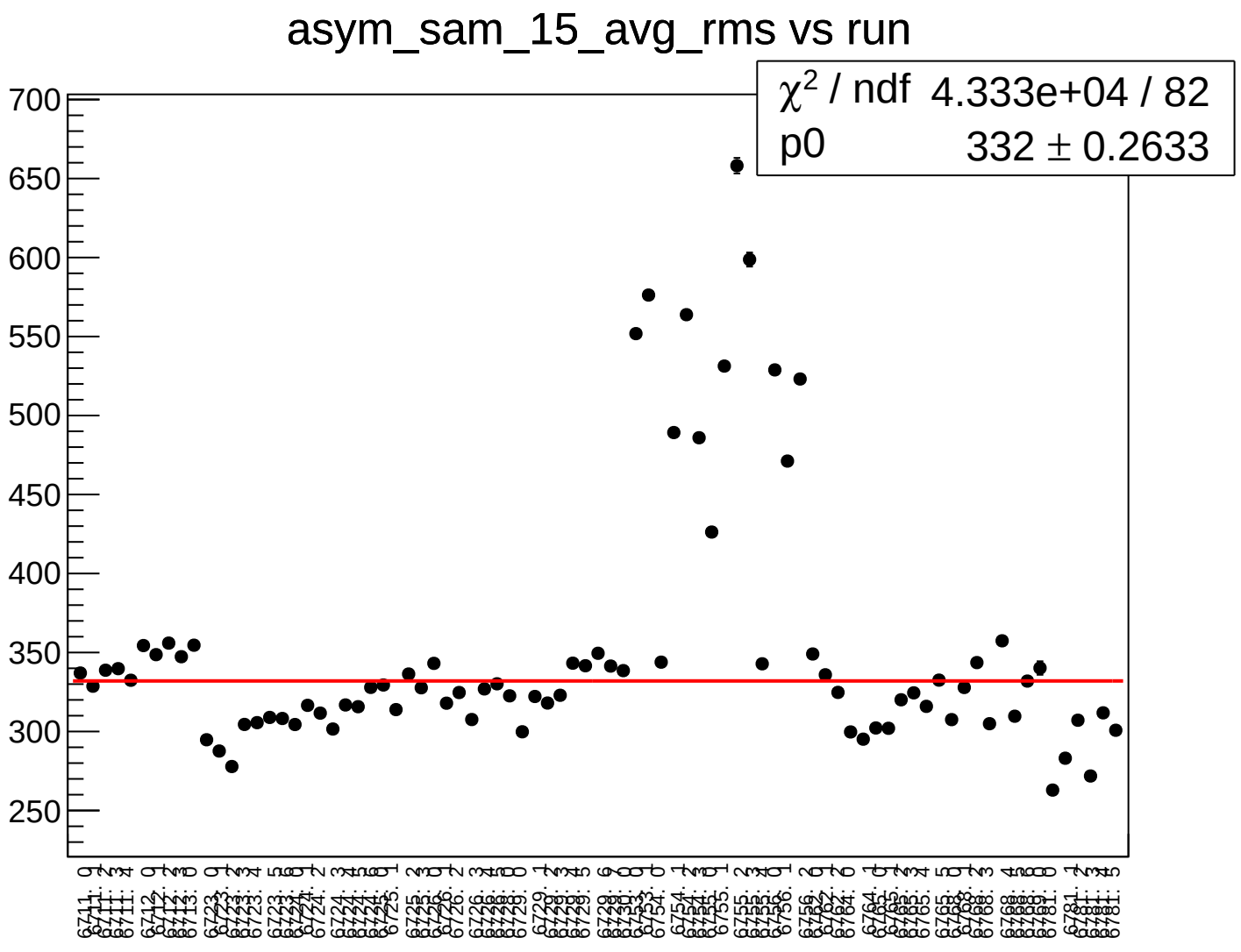

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 2.419e+04 / 82
p0 61.65 ± 0.04859
100
90
80
70
60
50

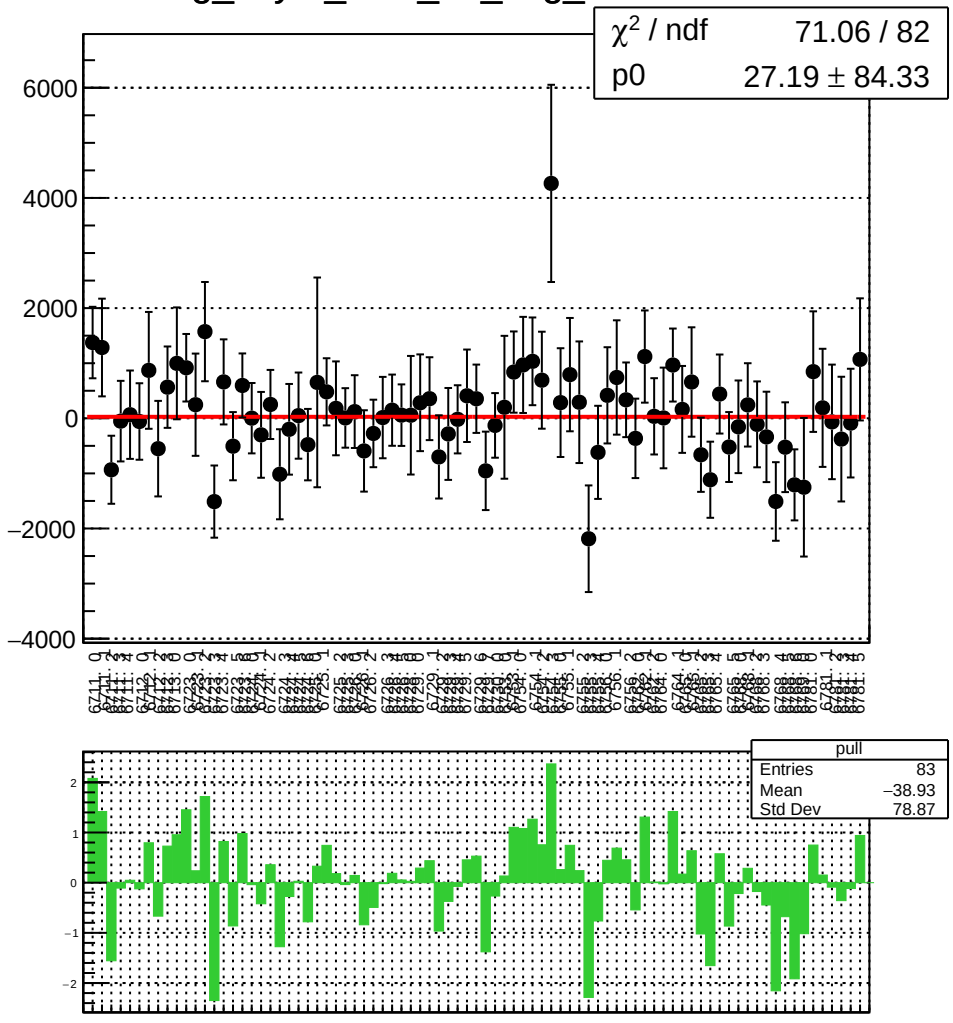

asym_sam_15_avg_correction_mean vs run
χ² / ndf 83.3 / 82
p0 −447.1 ± 365.6
pull
Entries 83
Mean −758.3
Std Dev 808.6

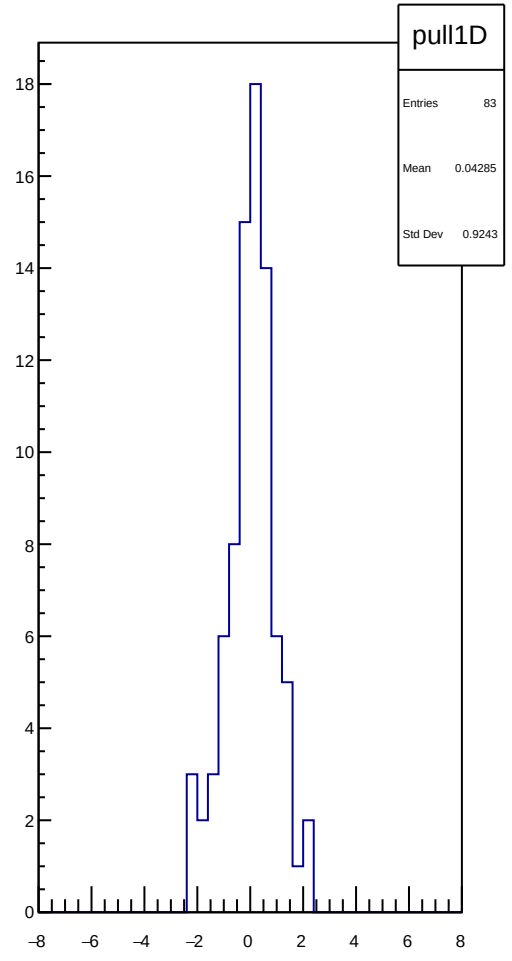

pull1D
Entries 83
Mean 0.002443
Std Dev 1.002

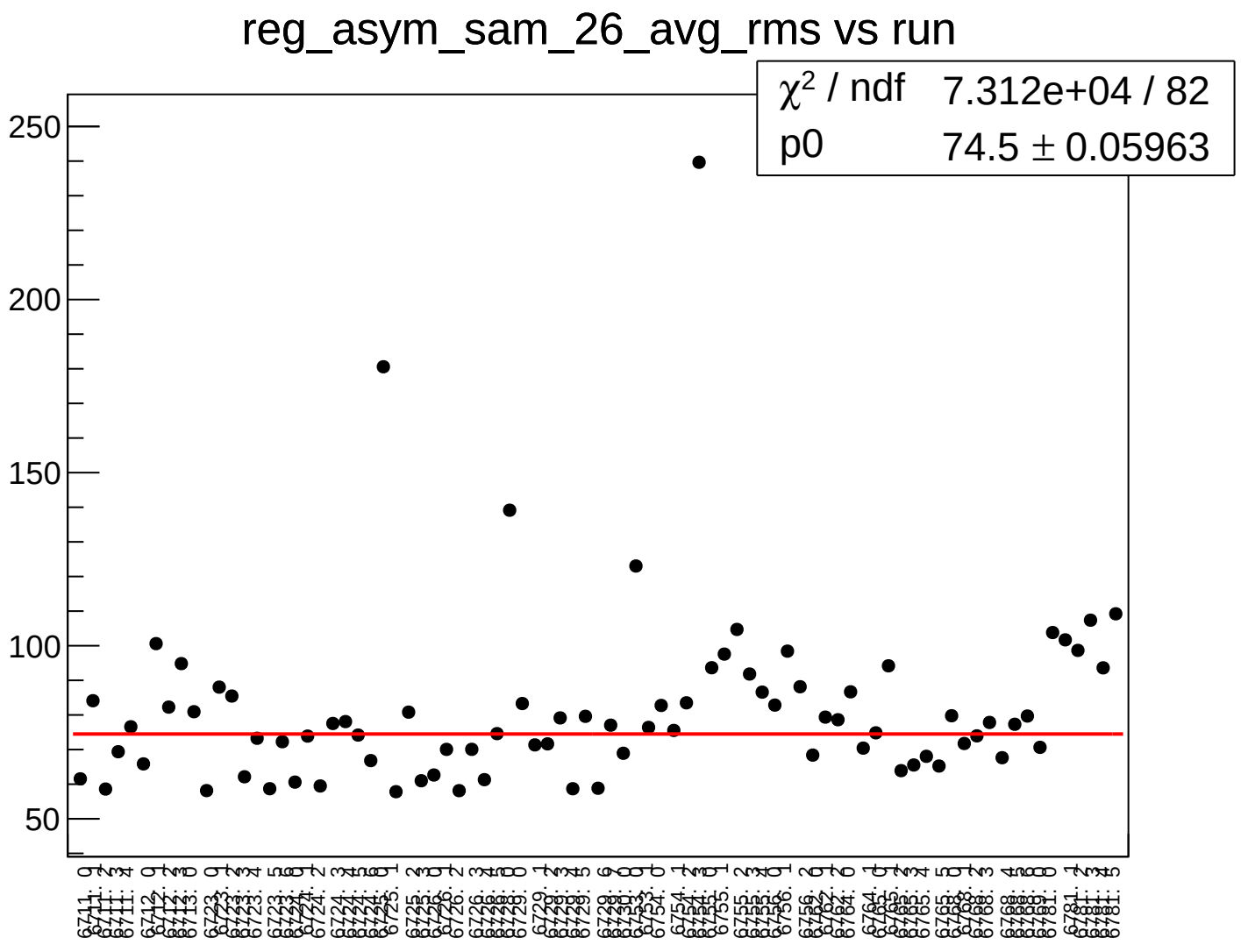

asym_sam_15_avg_correction_rms vs run
χ² / ndf 4.458e+04 / 82
p0 325.9 ± 0.2585
650
600
550
500
450
400
350
300
250

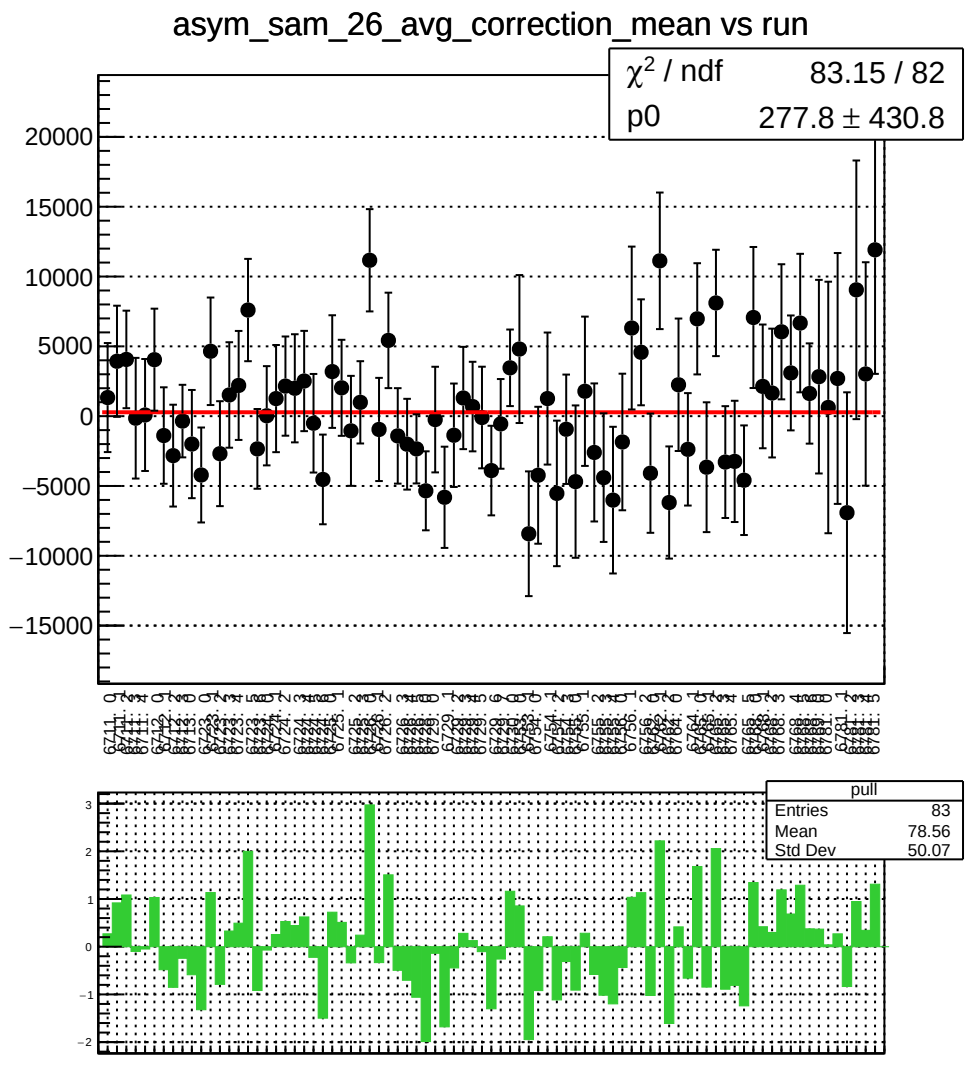

asym_sam_15_avg_mean vs run
χ² / ndf 88.78 / 82
p0 501 ± 372.3
pull
Entries 83
Mean −183.7
Std Dev 237
pull1D
Entries 83
Mean −0.006959
Std Dev 1.034

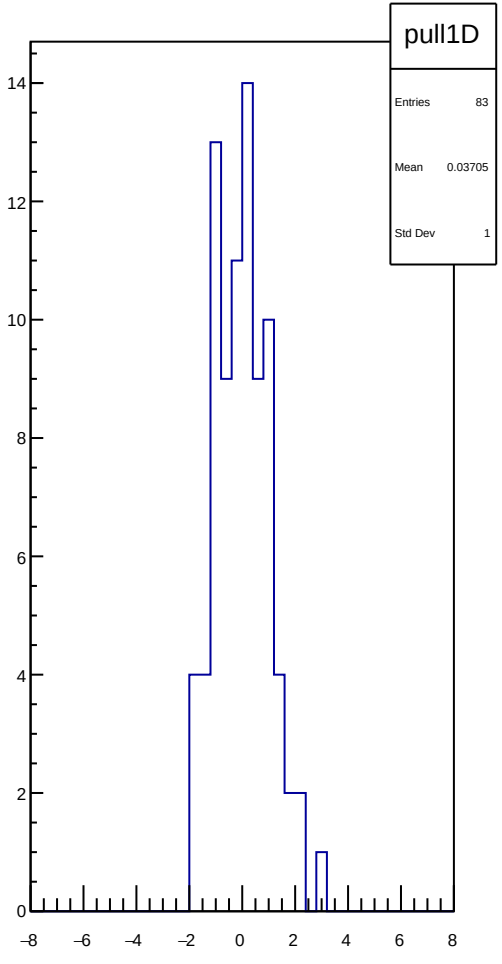

asym_sam_15_avg_rms vs run
χ^2 / ndf 4.333e+04 / 82
p0 332 ± 0.2633
700
650
600
550
500
450
400
350
300
250

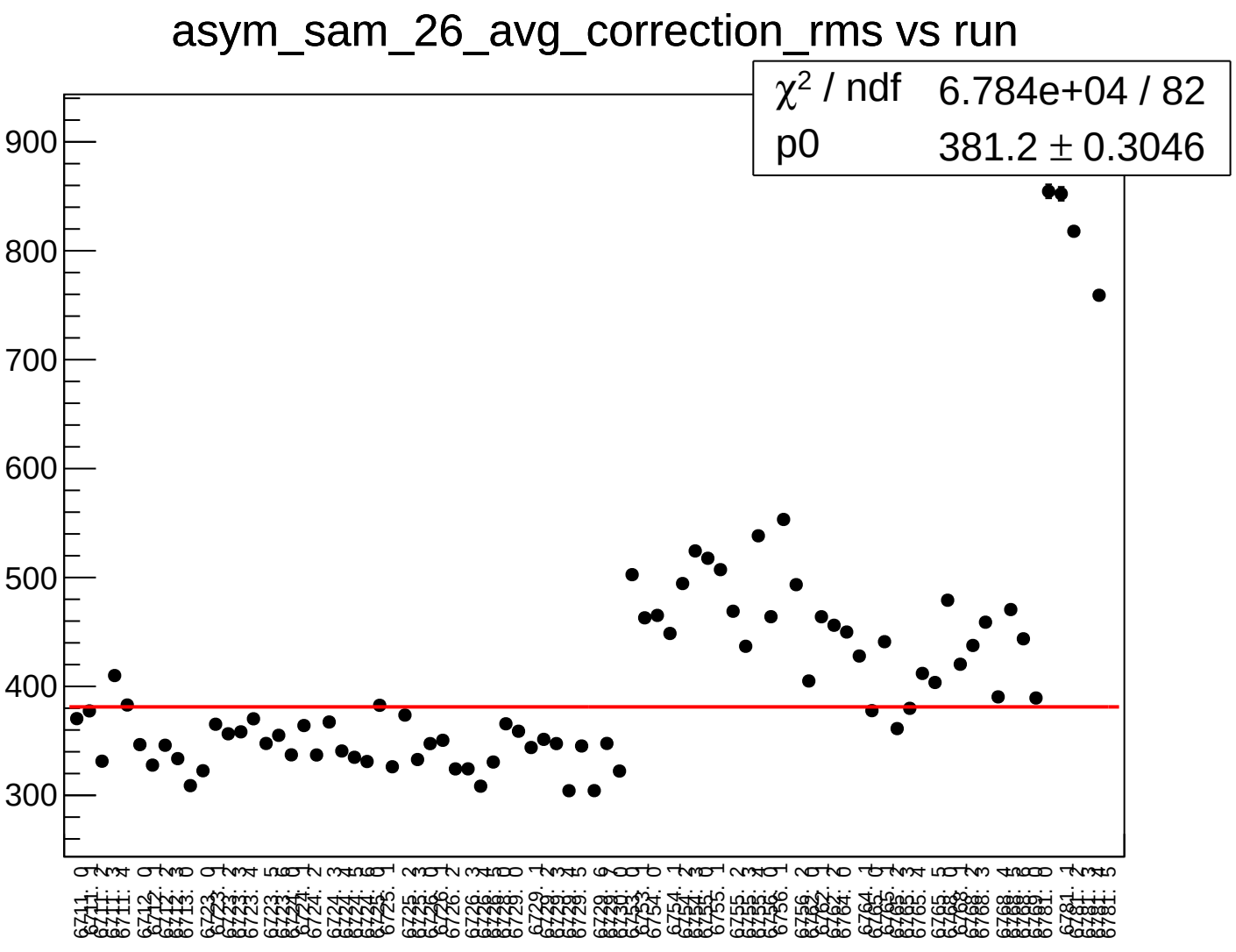

reg_asym_sam_26_avg_mean vs run
χ² / ndf 71.06 / 82
p0 27.19 ± 84.33
pull
Entries 83
Mean −38.93
Std Dev 78.87

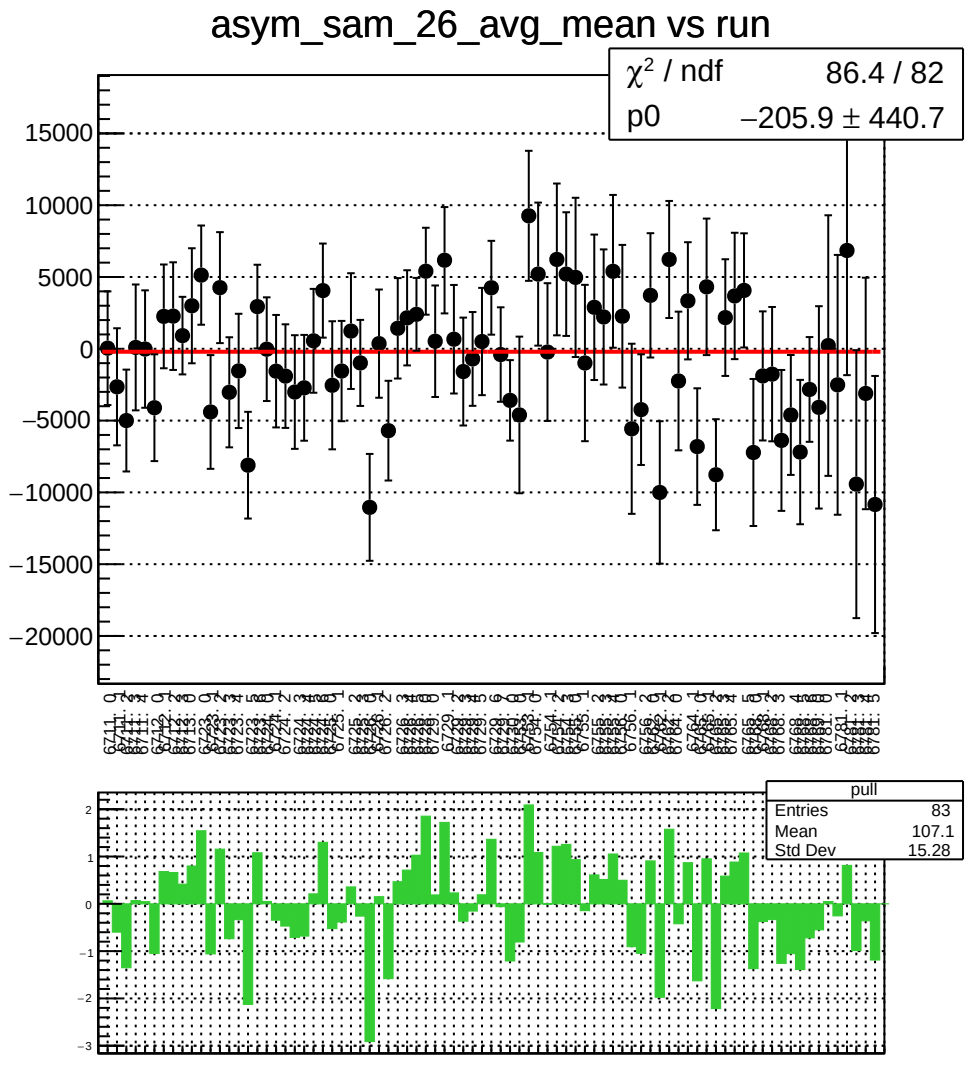

pull1D
Entries 83
Mean 0.04285
Std Dev 0.9243

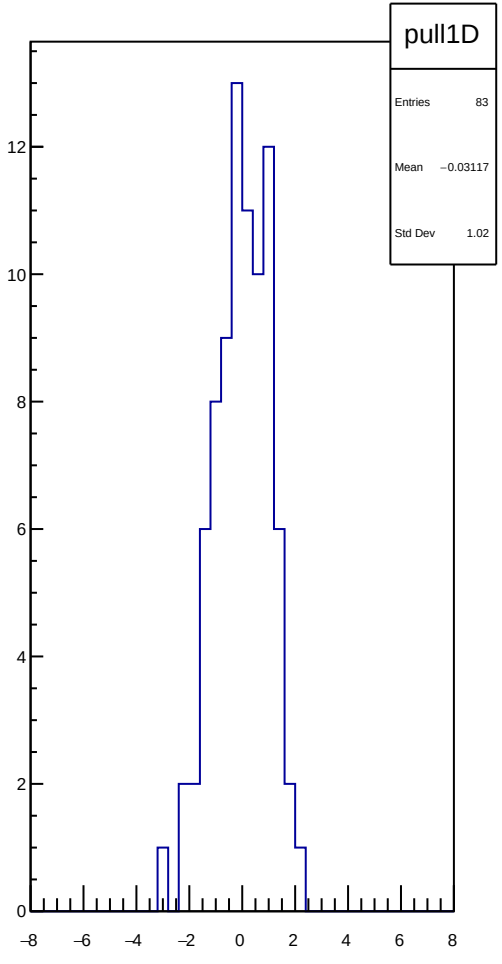

reg_asym_sam_26_avg_rms vs run
χ² / ndf 7.312e+04 / 82
p0 74.5 ± 0.05963
250
200
150
100
50

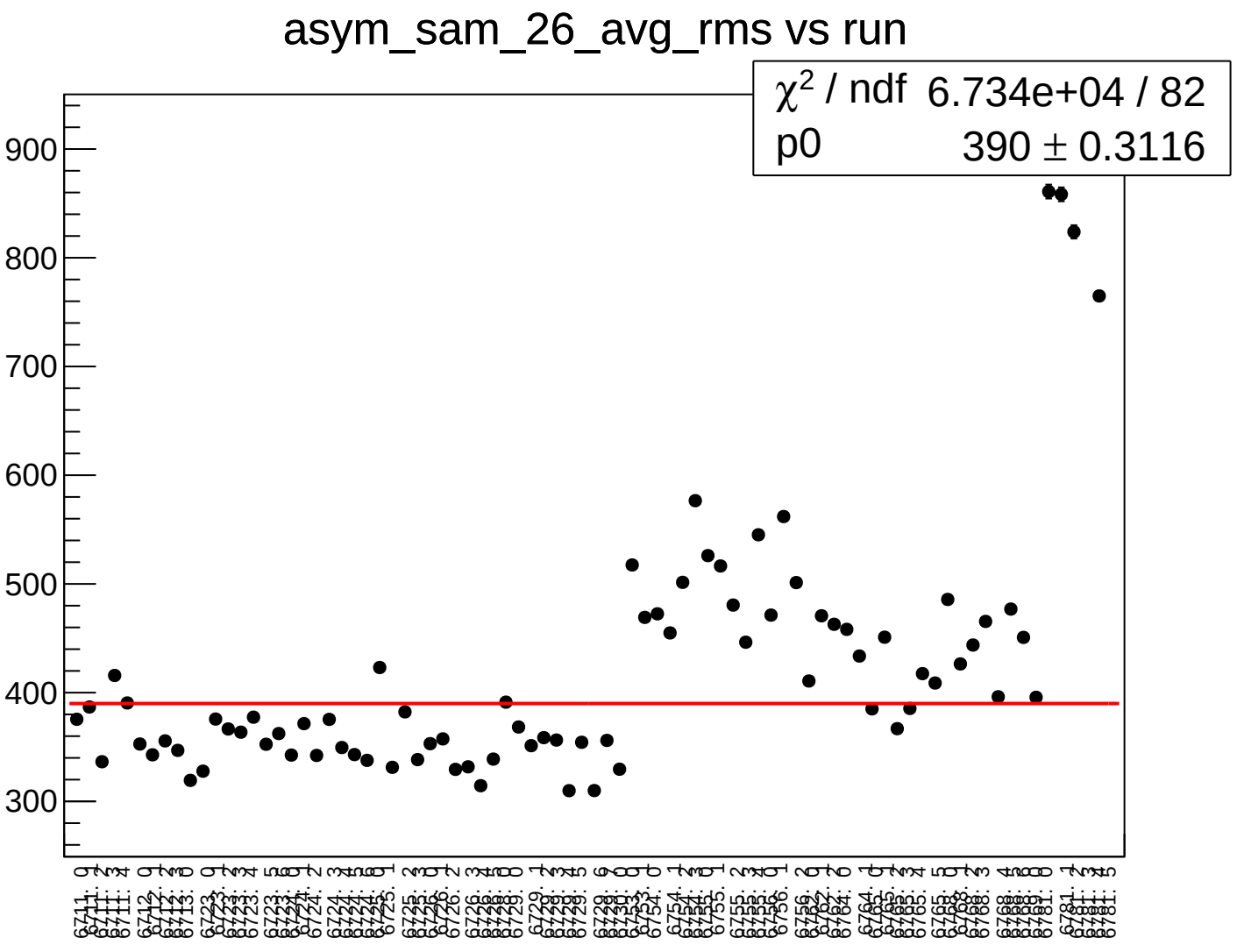

asym_sam_26_avg_correction_mean vs run
χ² / ndf 83.15 / 82
p0 277.8 ± 430.8
pull
Entries 83
Mean 78.56
Std Dev 50.07

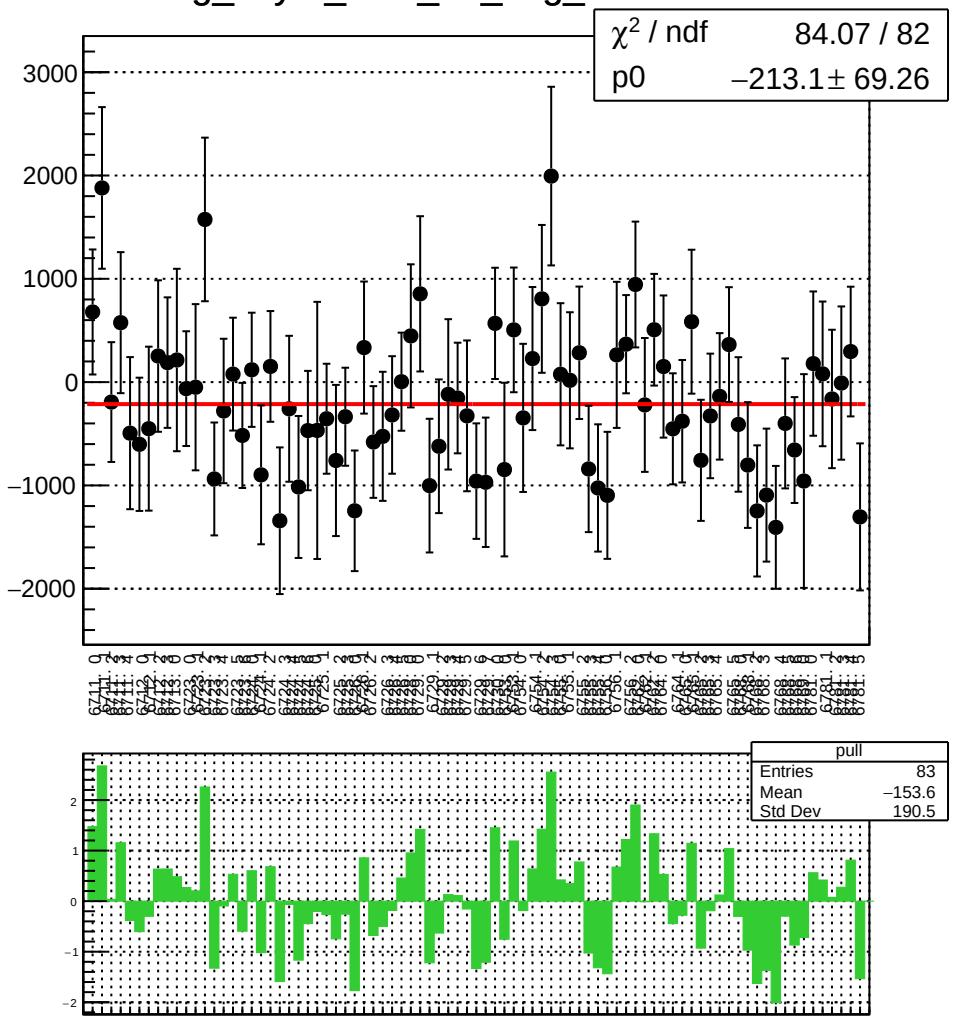

pull1D
Entries 83
Mean 0.03705
Std Dev 1

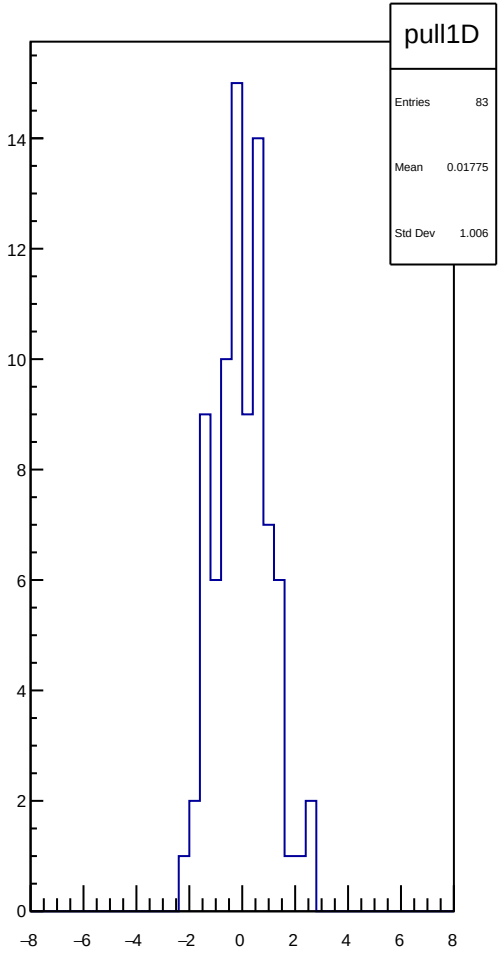

asym_sam_26_avg_correction_rms vs run
χ² / ndf 6.784e+04 / 82
p0 381.2 ± 0.3046
900
800
700
600
500
400
300

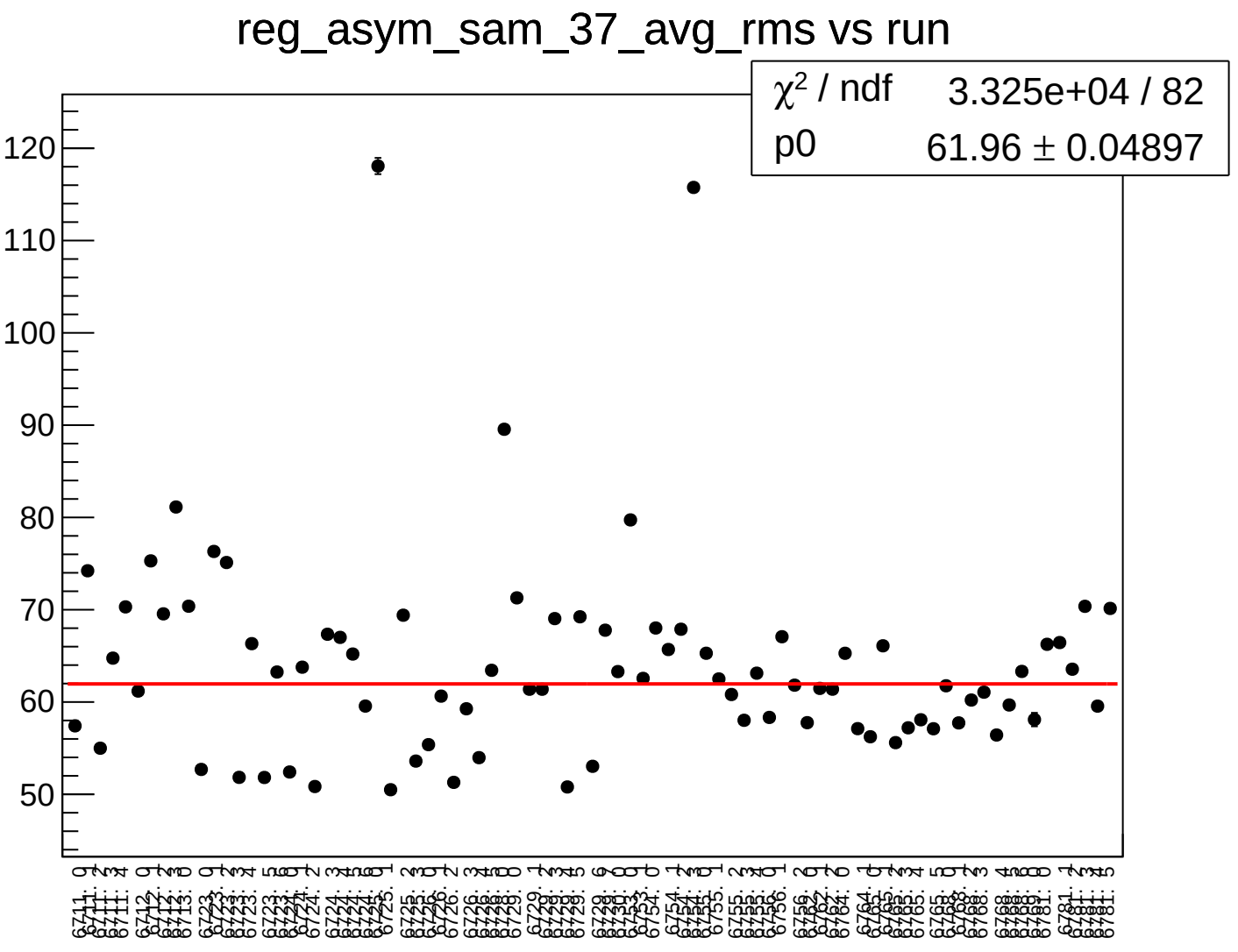

asym_sam_26_avg_mean vs run
χ² / ndf 86.4 / 82
p0 −205.9 ± 440.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 83
Mean 107.1
Std Dev 15.28
2
1
0
−1
−2
−3

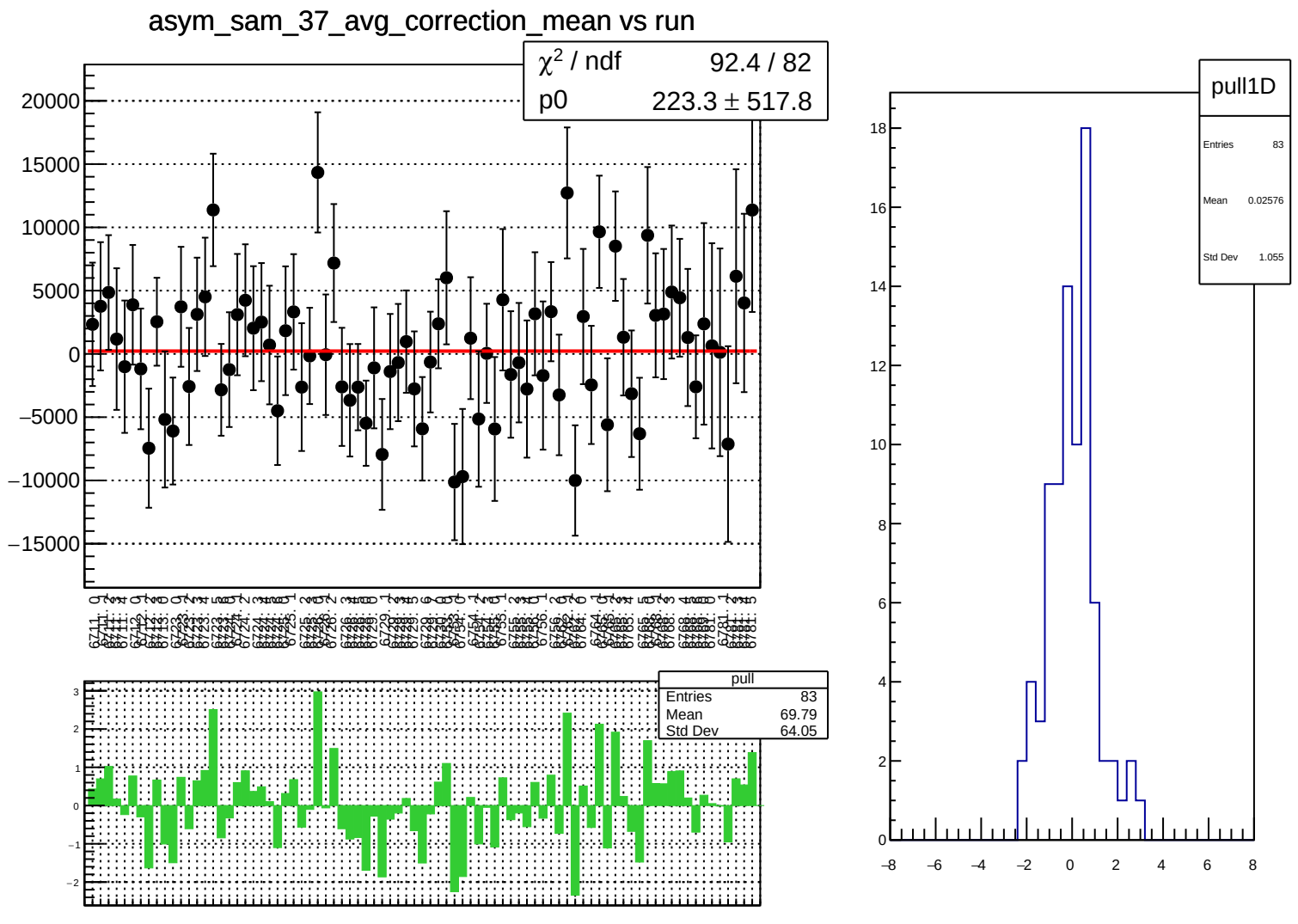

pull1D
Entries 83
Mean −0.03117
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

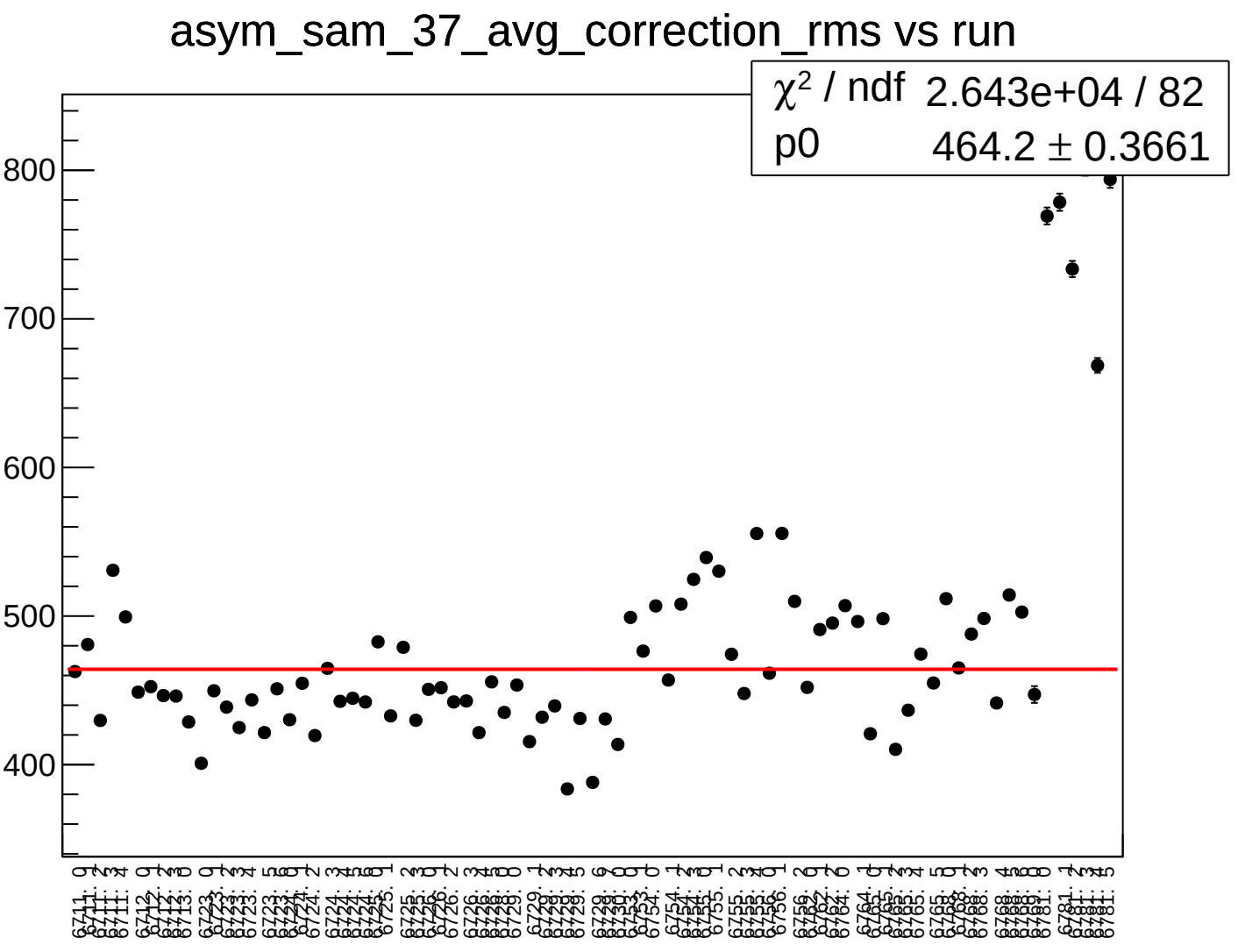

asym_sam_26_avg_rms vs run
χ^2 / ndf 6.734e+04 / 82
p0 390 ± 0.3116
900
800
700
600
500
400
300

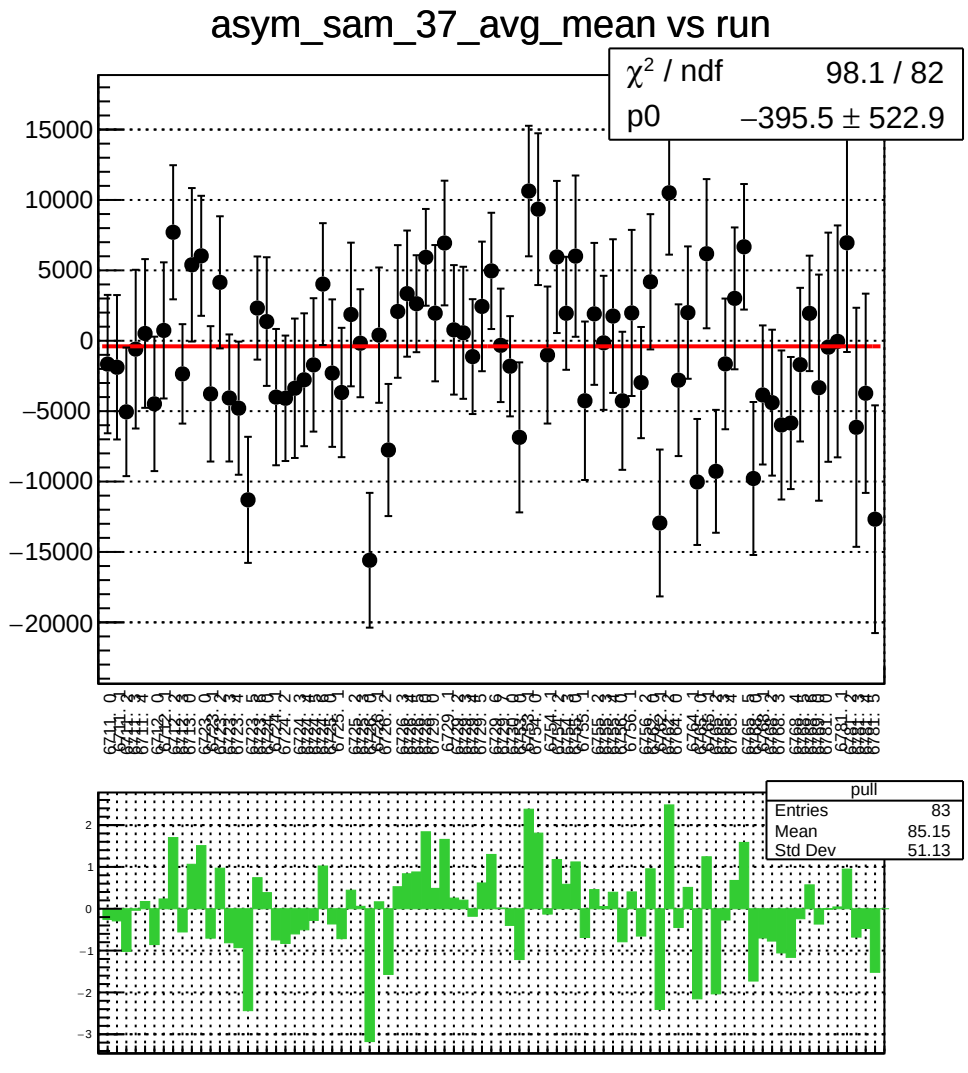

reg_asym_sam_37_avg_mean vs run
χ² / ndf 84.07 / 82
p0 −213.1± 69.26
pull
Entries 83
Mean −153.6
Std Dev 190.5

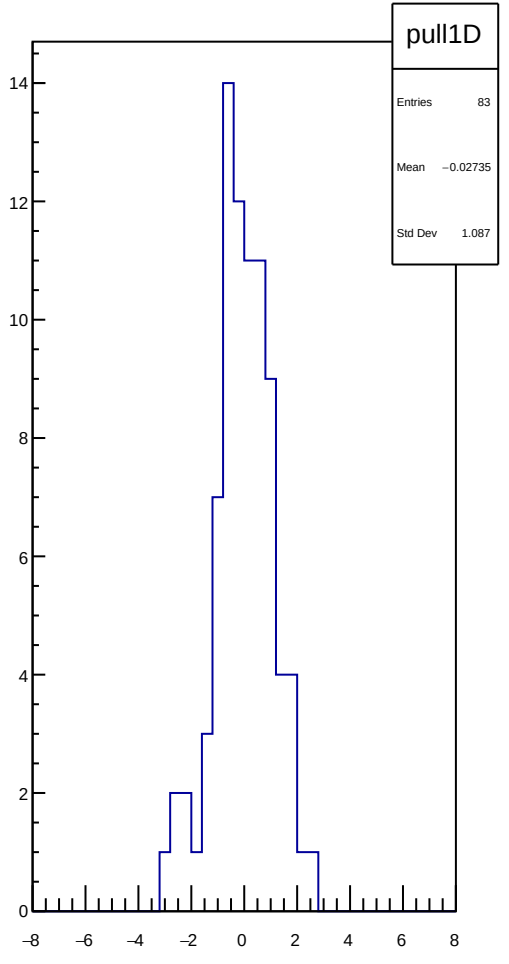

pull1D
Entries 83
Mean 0.01775
Std Dev 1.006

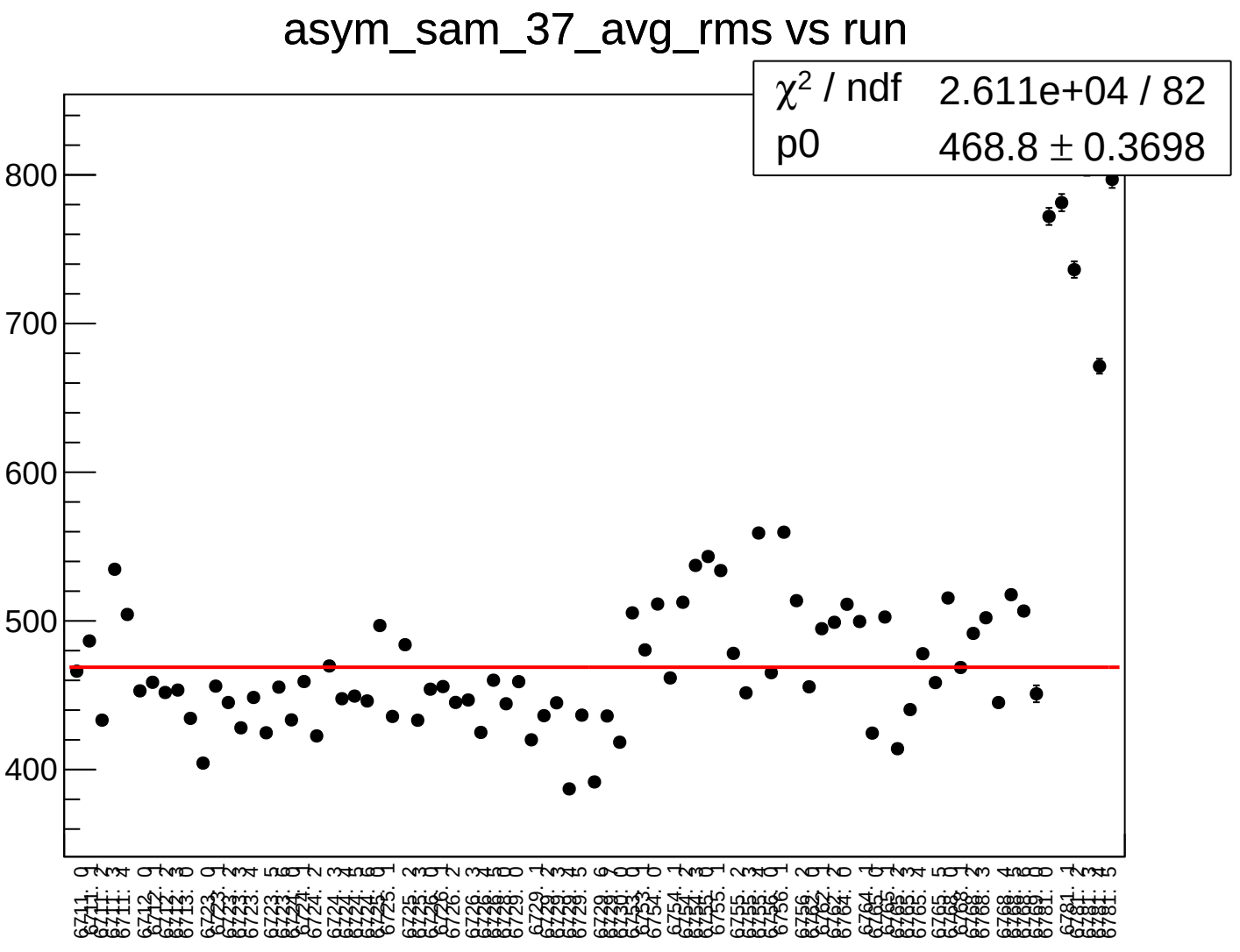

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.325e+04 / 82
p0 61.96 ± 0.04897
120
110
100
90
80
70
60
50

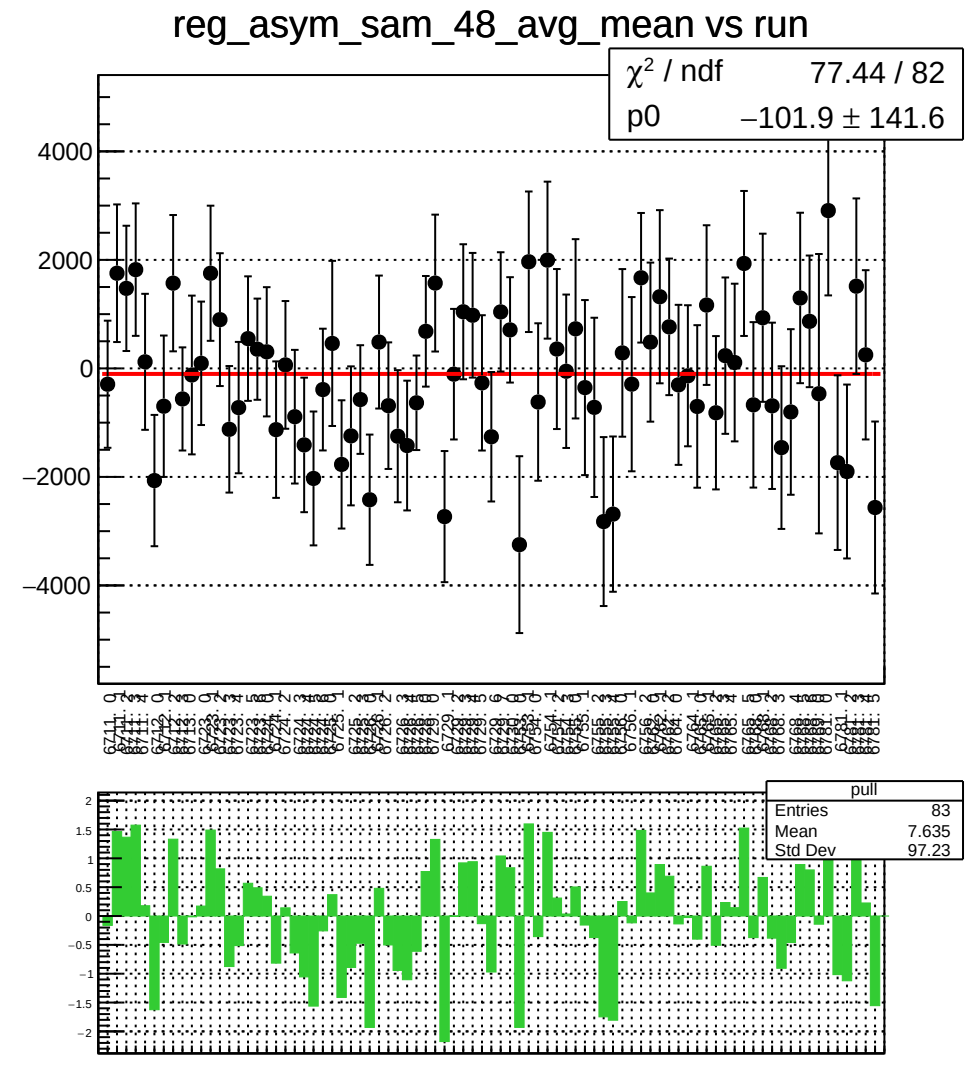

asym_sam_37_avg_correction_mean vs run
χ² / ndf 92.4 / 82
p0 223.3 ± 517.8
pull
Entries 83
Mean 69.79
Std Dev 64.05
pull1D
Entries 83
Mean 0.02576
Std Dev 1.055

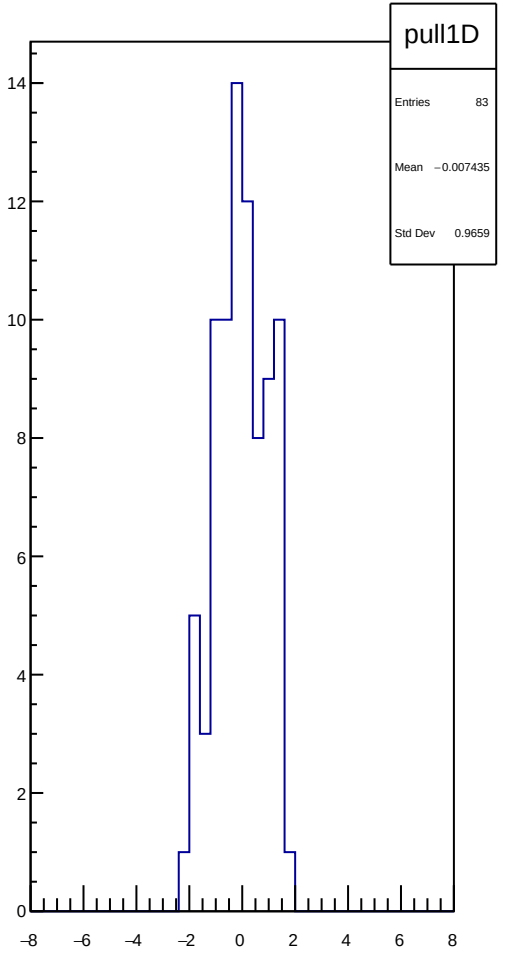

asym_sam_37_avg_correction_rms vs run
χ² / ndf 2.643e+04 / 82
p0 464.2 ± 0.3661
800
700
600
500
400

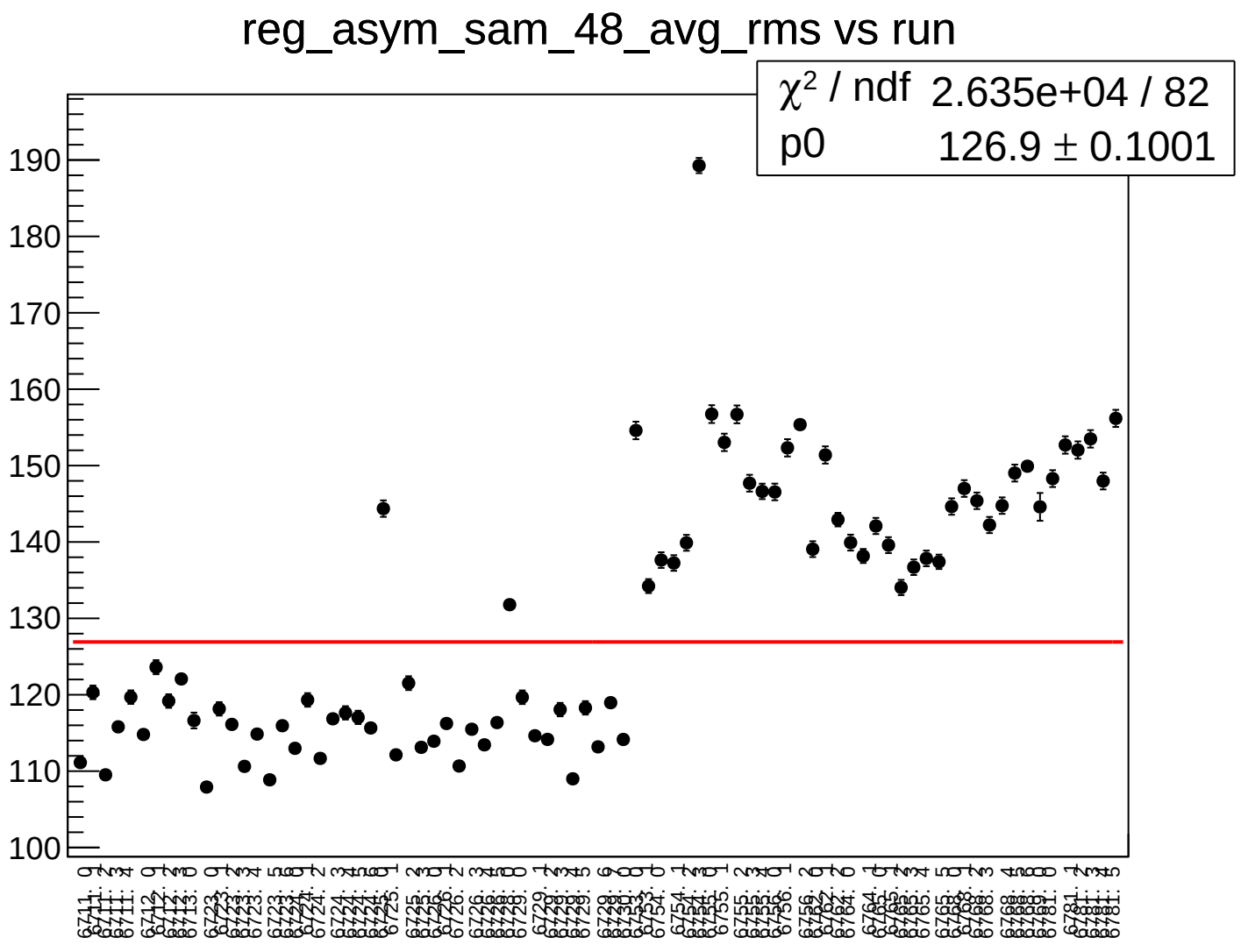

asym_sam_37_avg_mean vs run
χ² / ndf 98.1 / 82
p0 −395.5 ± 522.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 83
Mean 85.15
Std Dev 51.13
2
1
0
−1
−2
−3

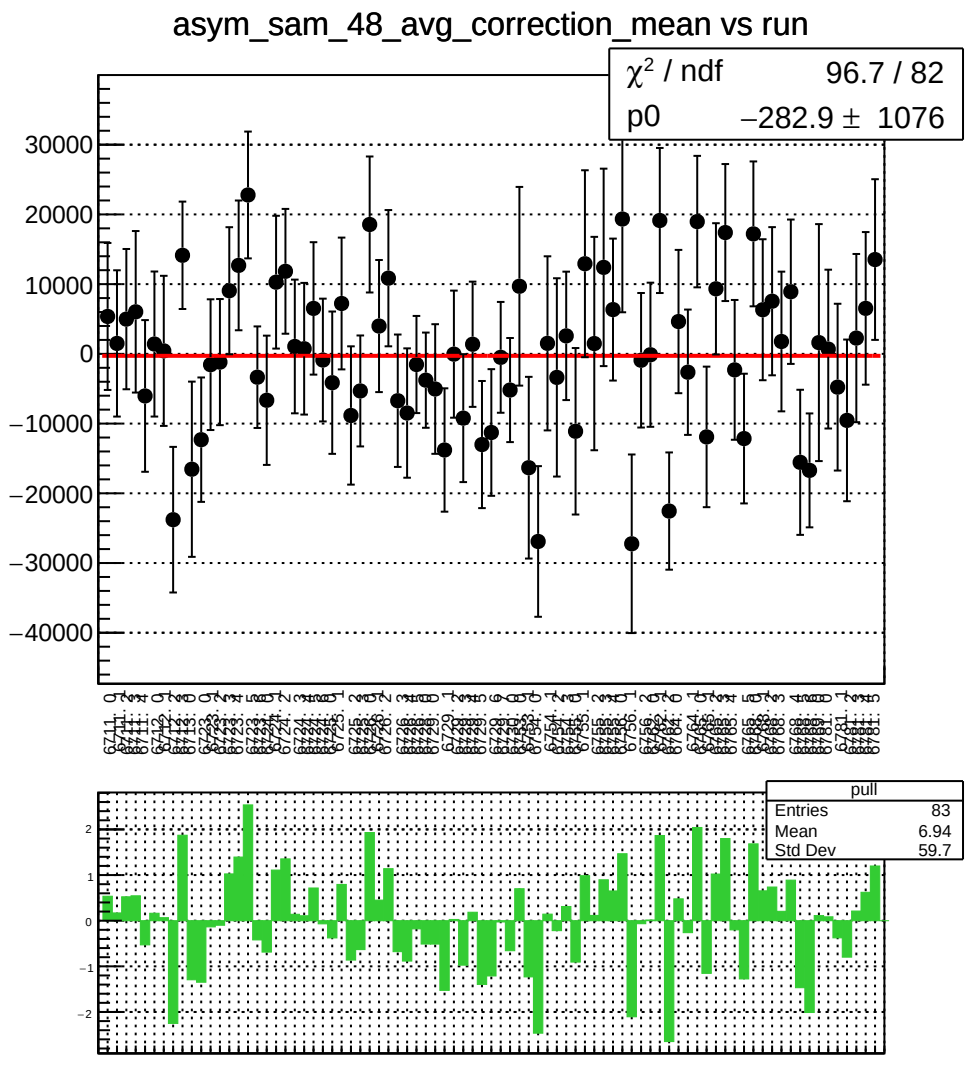

pull1D
Entries 83
Mean −0.02735
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

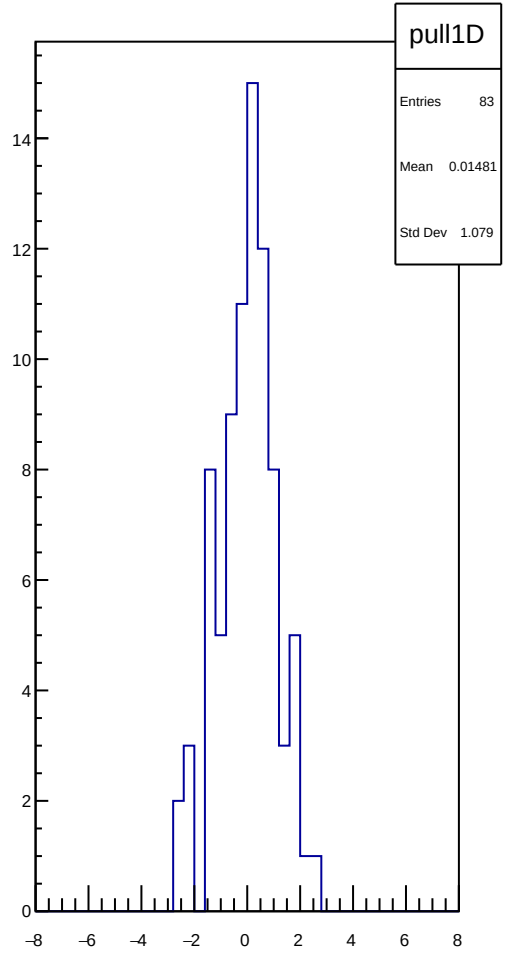

asym_sam_37_avg_rms vs run
χ^2 / ndf 2.611e+04 / 82
p0 468.8 ± 0.3698
800
700
600
500
400

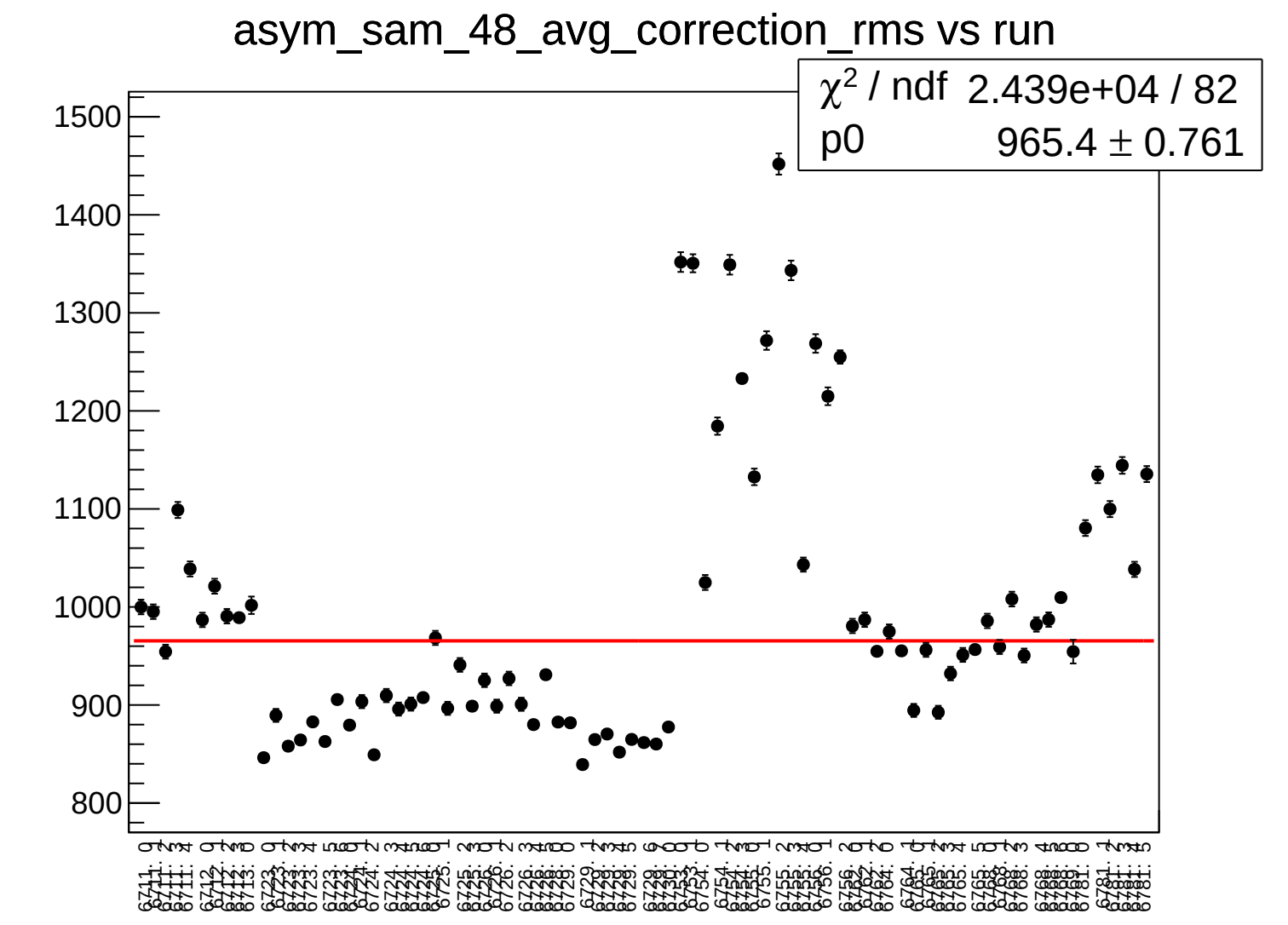

reg_asym_sam_48_avg_mean vs run
χ² / ndf 77.44 / 82
p0 −101.9 ± 141.6
4000
2000
0
−2000
−4000
pull
Entries 83
Mean 7.635
Std Dev 97.23
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

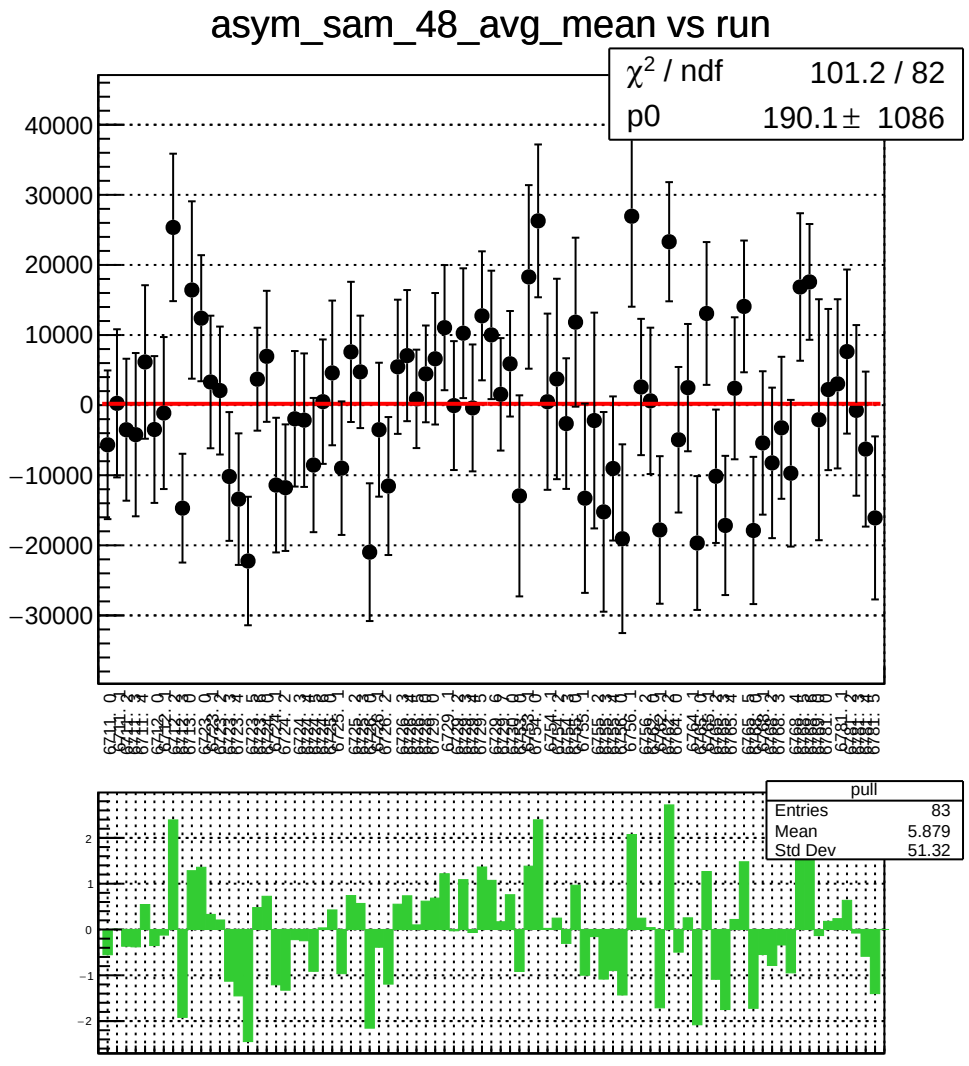

pull1D
Entries 83
Mean −0.007435
Std Dev 0.9659
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

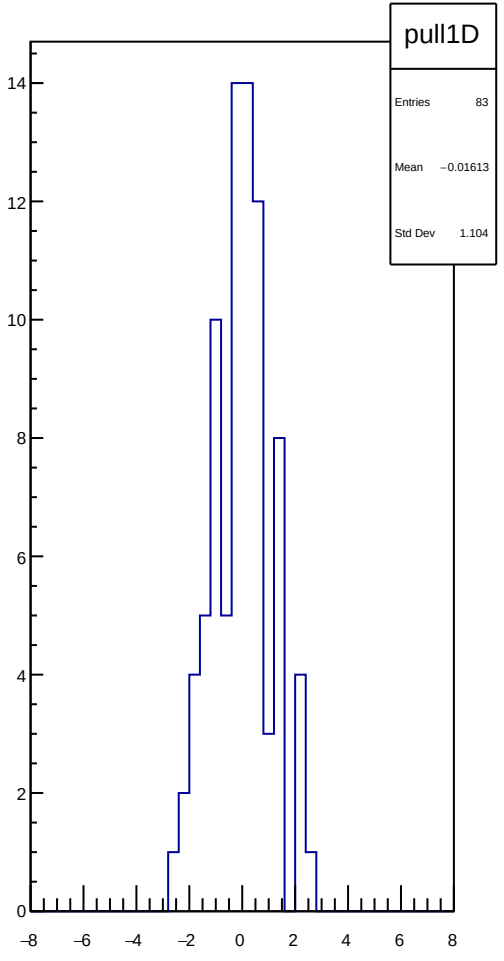

reg_asym_sam_48_avg_rms vs run
χ² / ndf 2.635e+04 / 82
p0 126.9 ± 0.1001
190
180
170
160
150
140
130
120
110
100

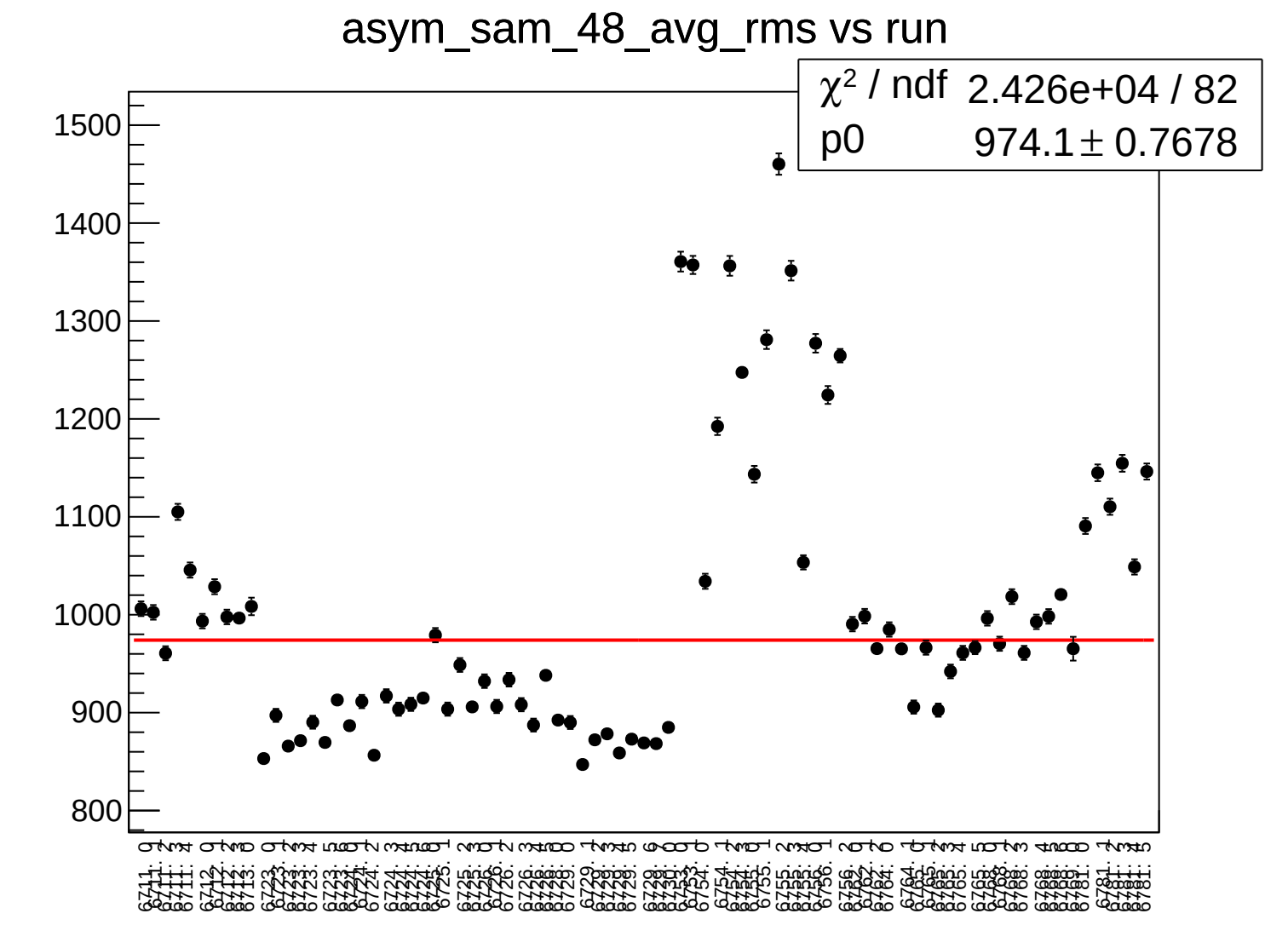

asym_sam_48_avg_correction_mean vs run
χ² / ndf 96.7 / 82
p0 −282.9 ± 1076
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 83
Mean 6.94
Std Dev 59.7
2
1
0
−1
−2

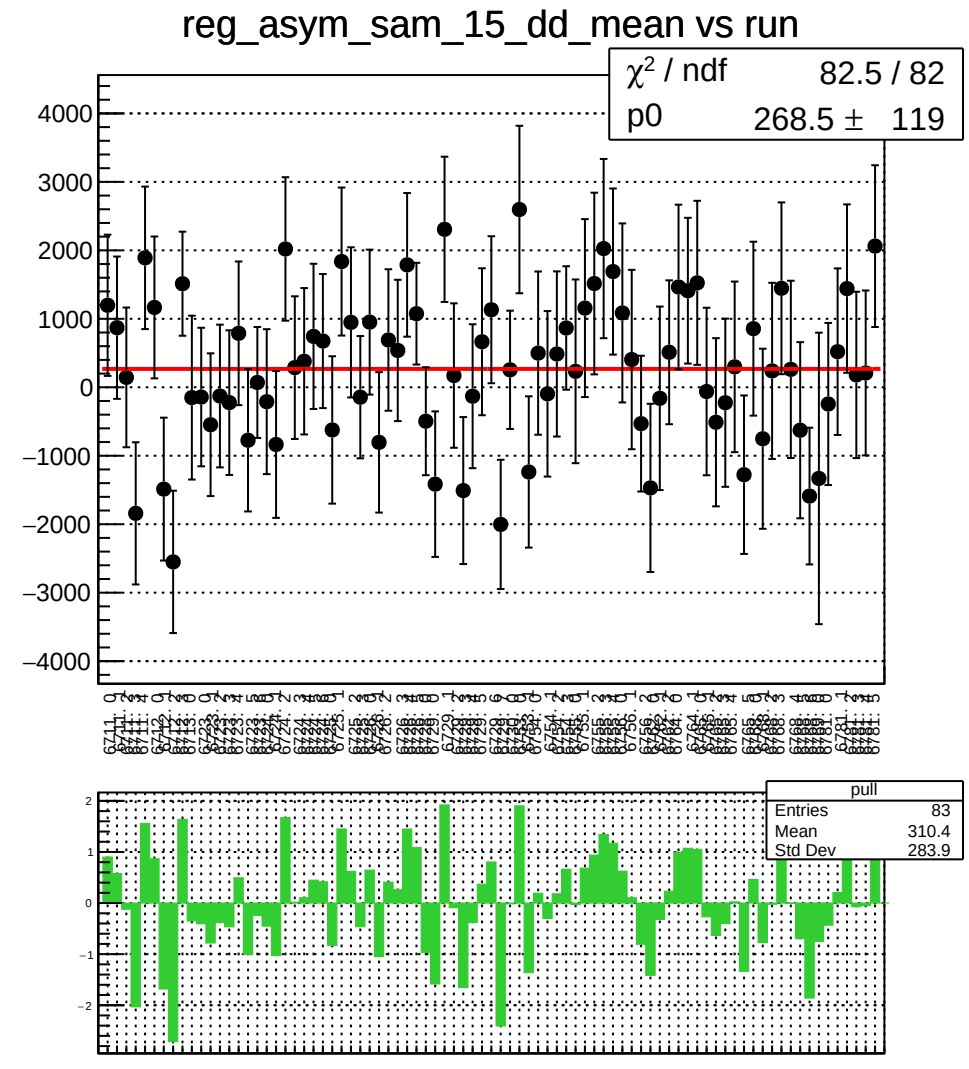

pull1D
Entries 83
Mean 0.01481
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

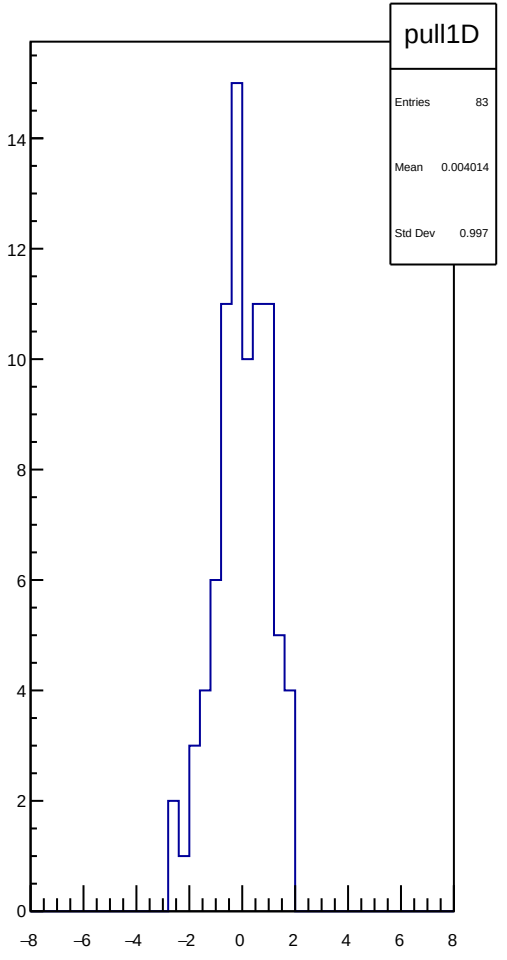

asym_sam_48_avg_correction_rms vs run
χ² / ndf 2.439e+04 / 82
p0 965.4 ± 0.761
1500
1400
1300
1200
1100
1000
900
800

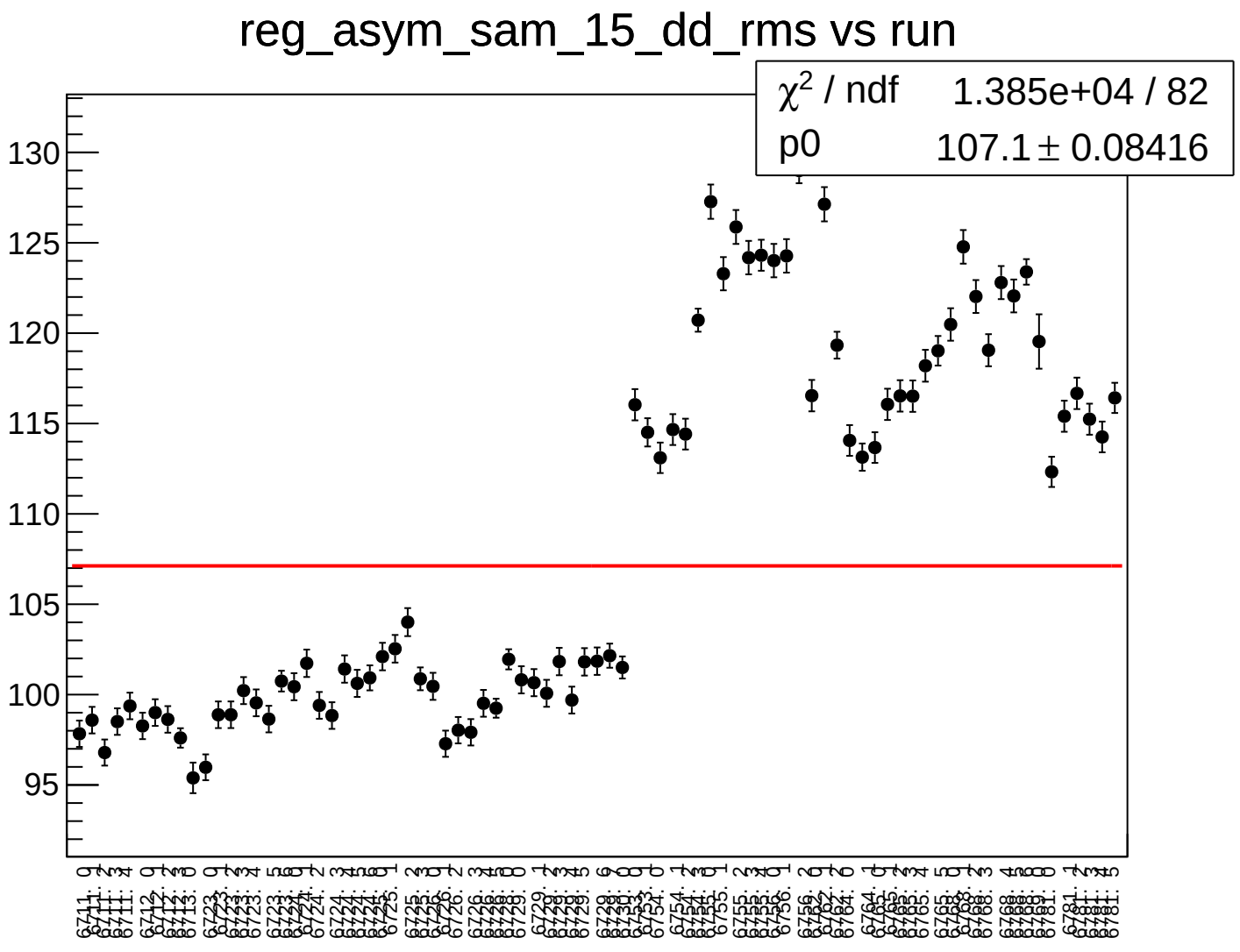

asym_sam_48_avg_mean vs run
χ² / ndf 101.2 / 82
p0 190.1 ± 1086
pull
Entries 83
Mean 5.879
Std Dev 51.32

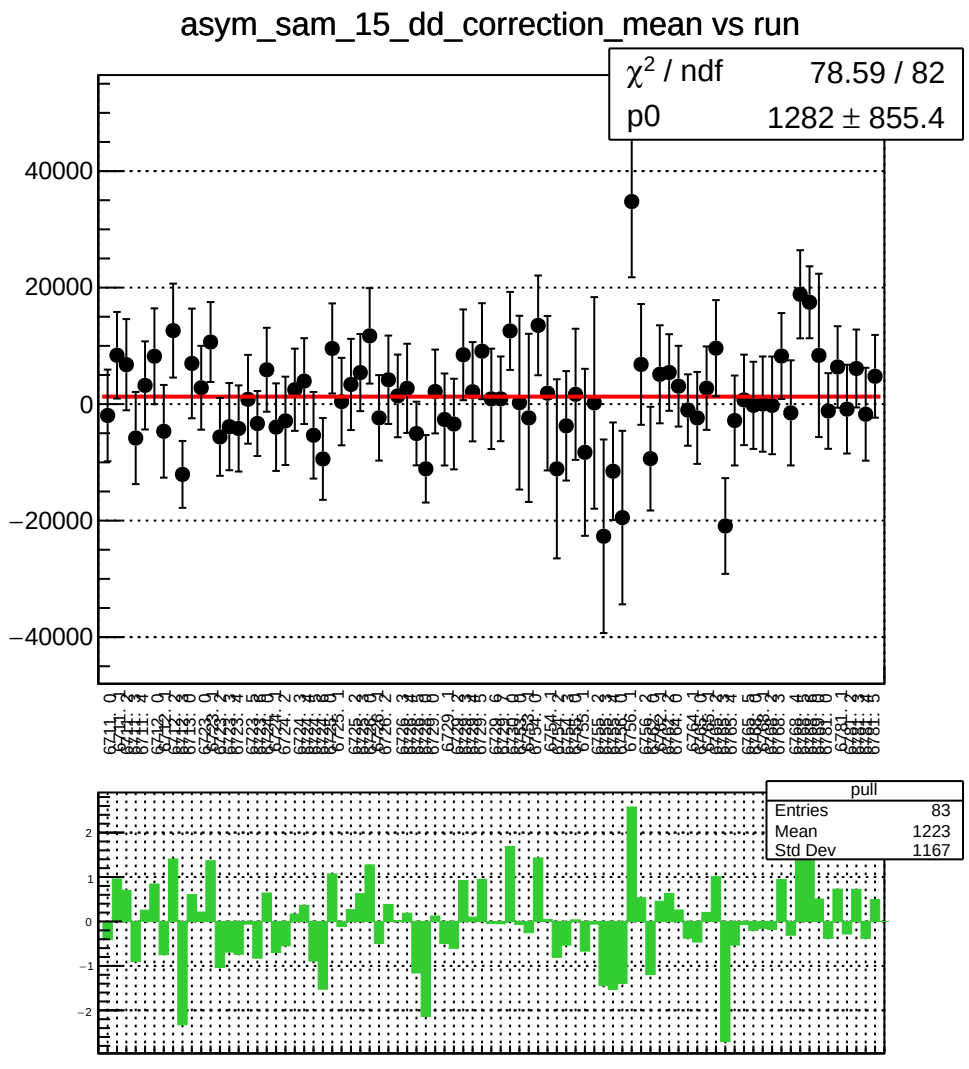

pull1D
Entries 83
Mean −0.01613
Std Dev 1.104

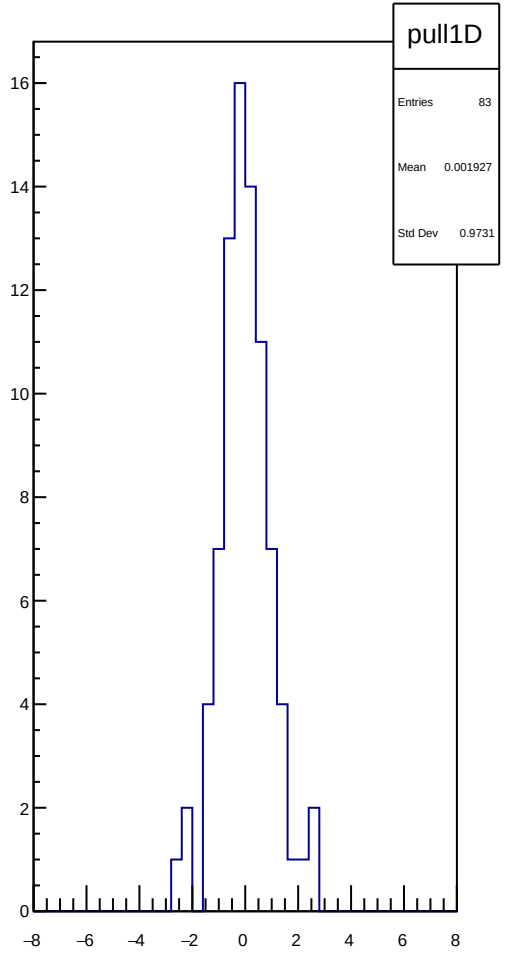

asym_sam_48_avg_rms vs run
χ² / ndf 2.426e+04 / 82
p0 974.1 ± 0.7678
1500
1400
1300
1200
1100
1000
900
800

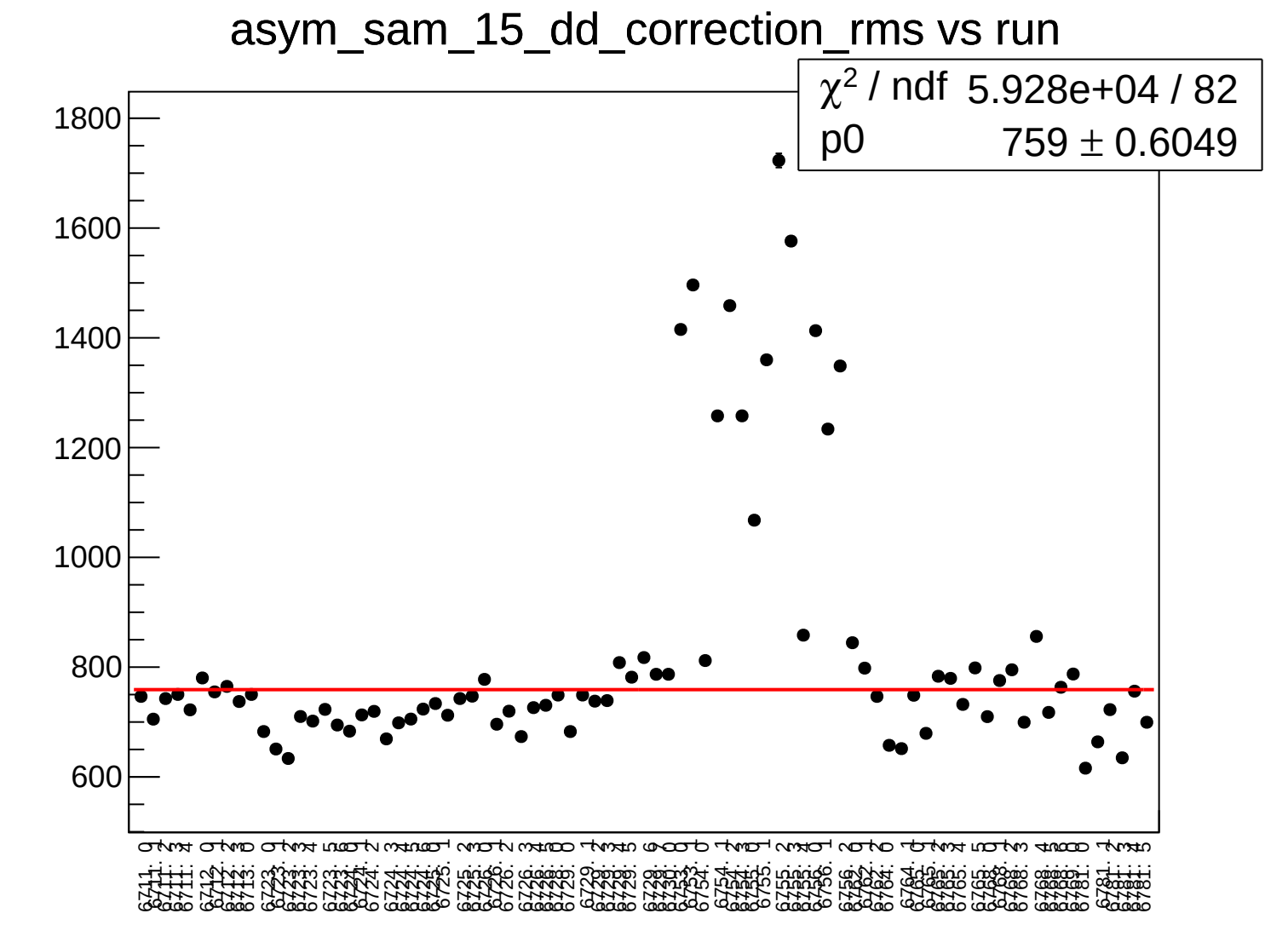

reg_asym_sam_15_dd_mean vs run
χ² / ndf 82.5 / 82
p0 268.5 ± 119
pull
Entries 83
Mean 310.4
Std Dev 283.9

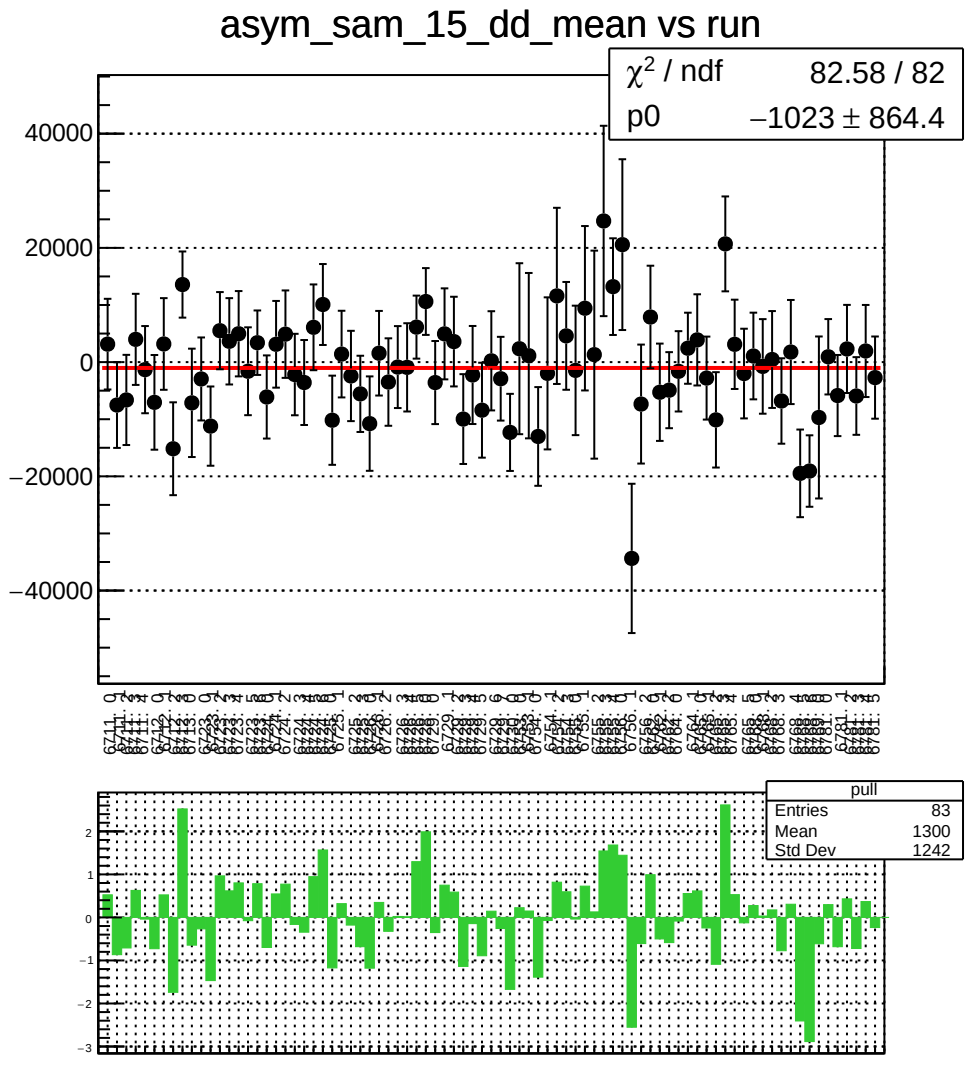

pull1D
Entries 83
Mean 0.004014
Std Dev 0.997

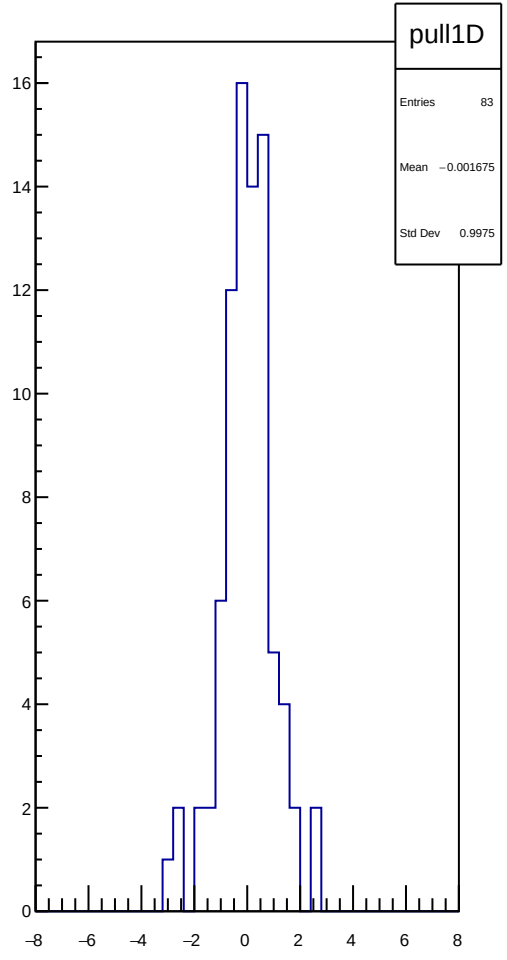

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 1.385e+04 / 82
p0 107.1 ± 0.08416
130
125
120
115
110
105
100
95

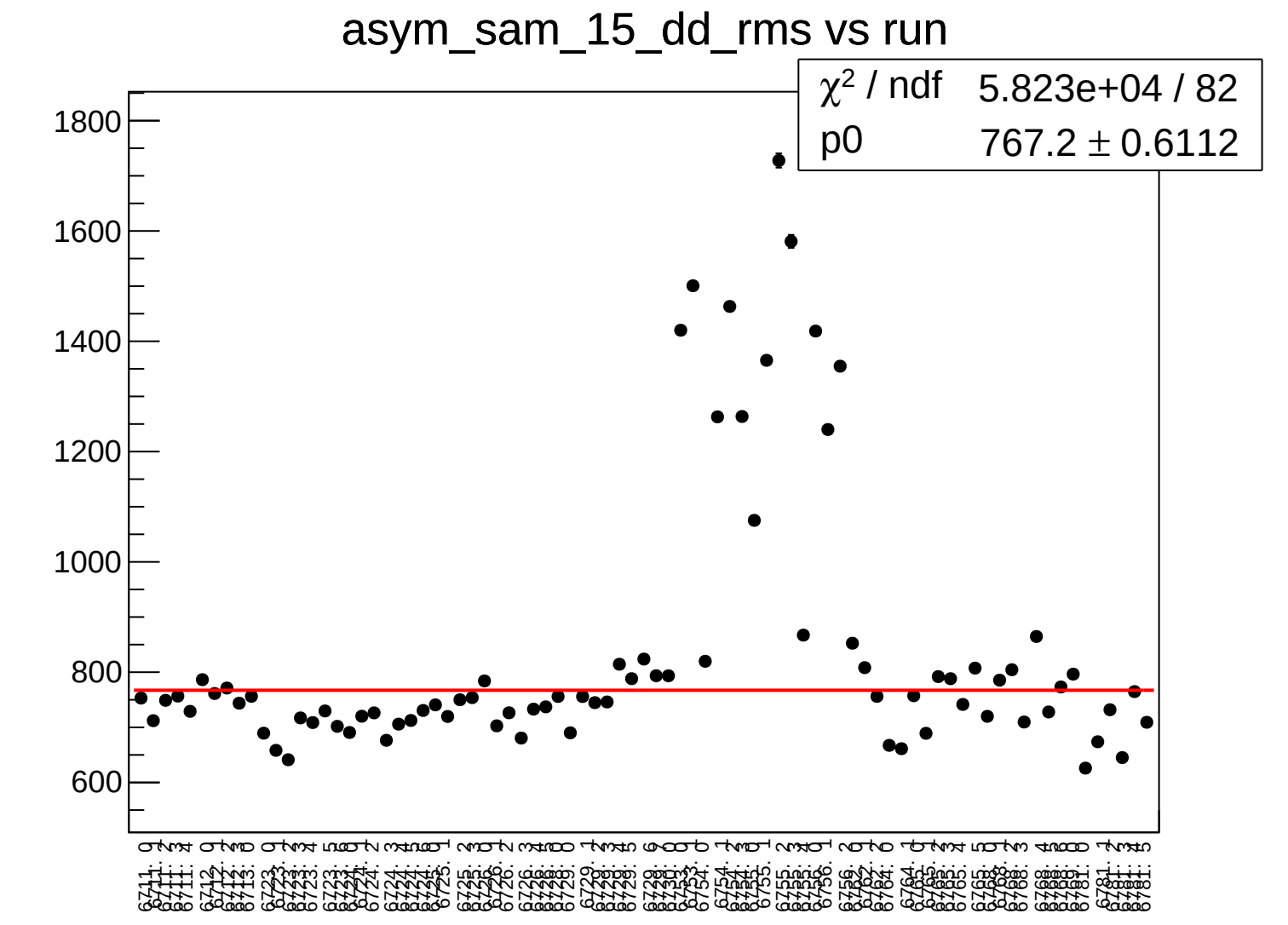

asym_sam_15_dd_correction_mean vs run
χ² / ndf 78.59 / 82
p0 1282 ± 855.4
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 1223
Std Dev 1167
2
1
0
−1
−2

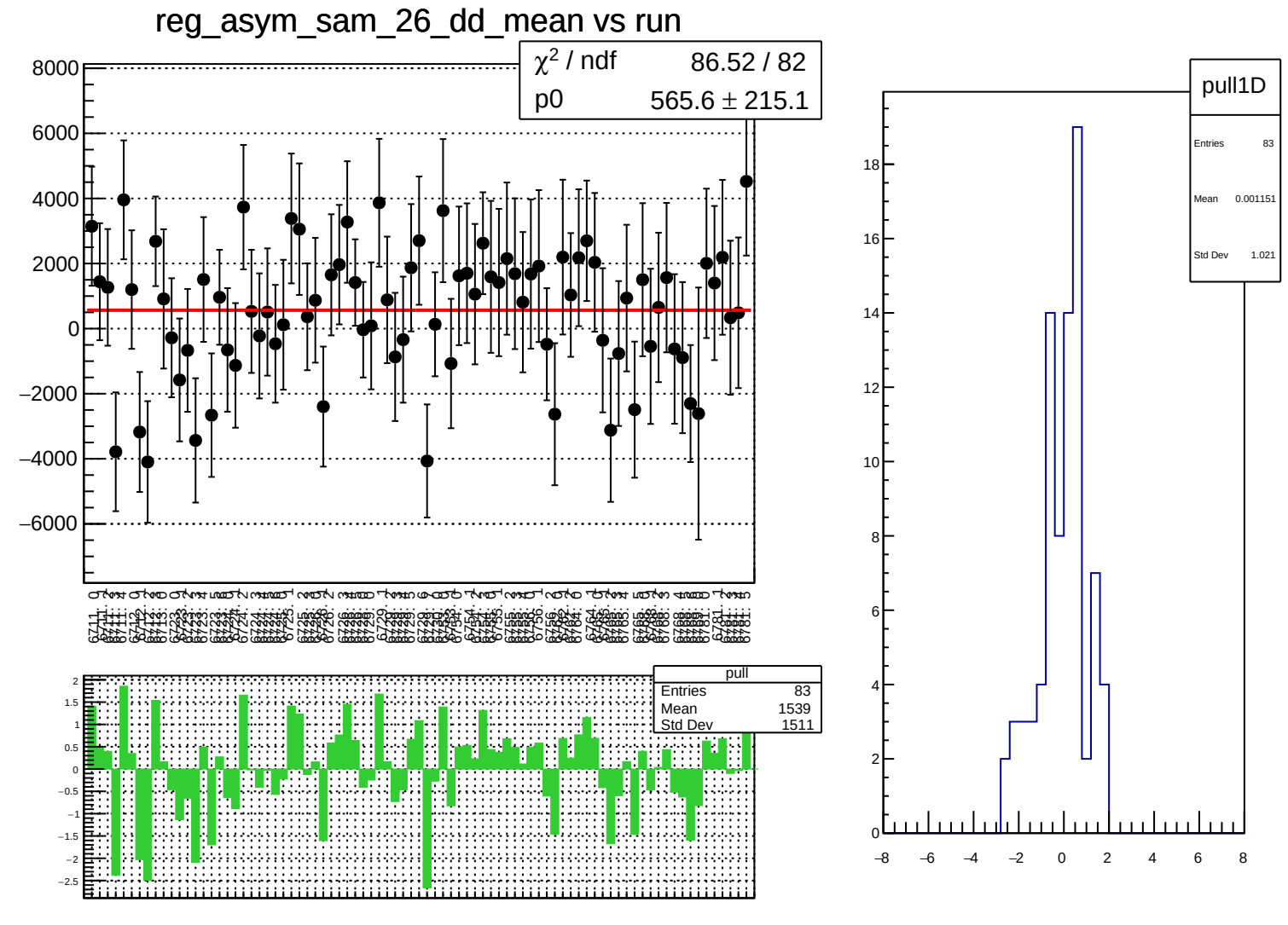

pull1D
Entries 83
Mean 0.001927
Std Dev 0.9731
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

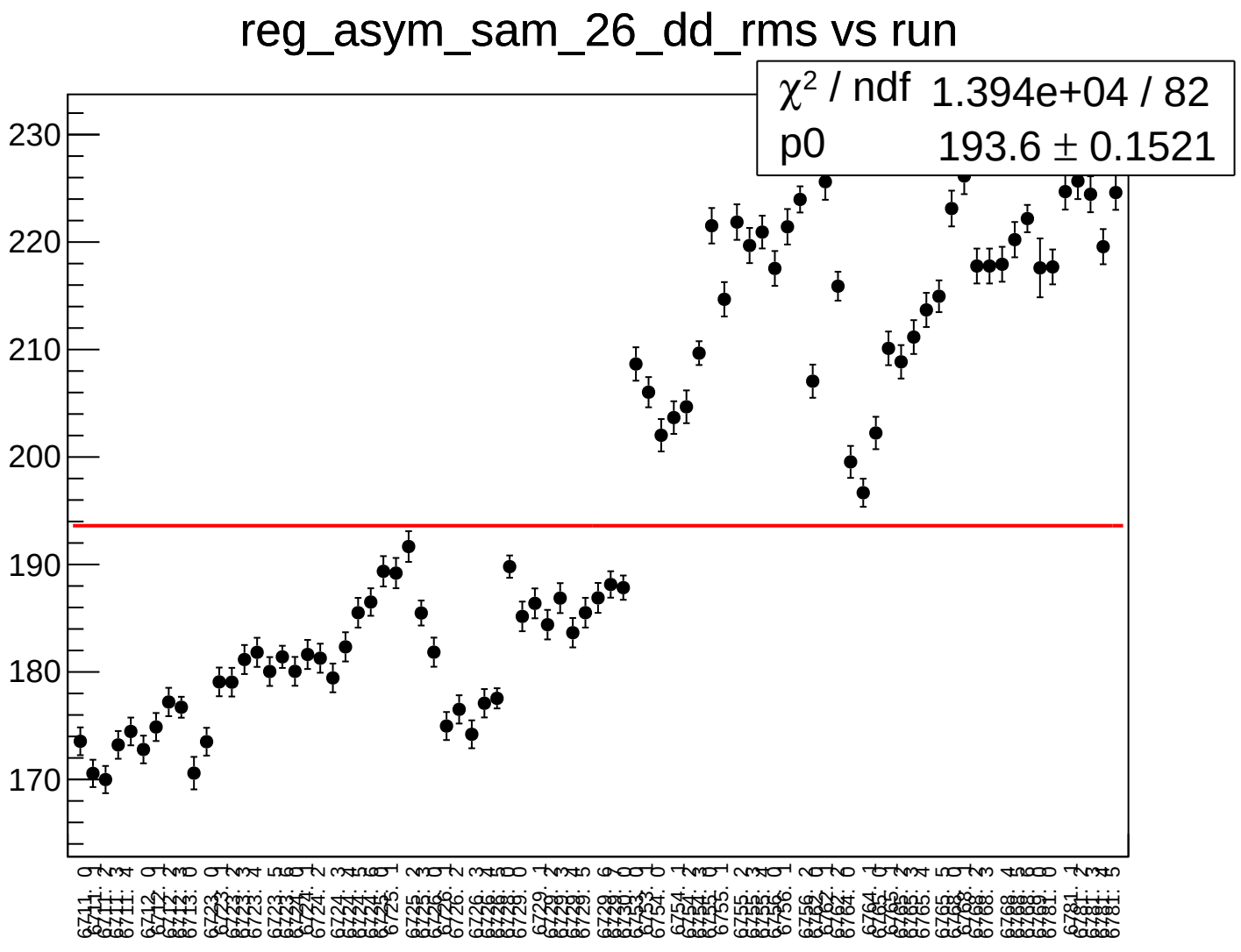

asym_sam_15_dd_correction_rms vs run
χ^2 / ndf 5.928e+04 / 82
p0 759 ± 0.6049
1800
1600
1400
1200
1000
800
600

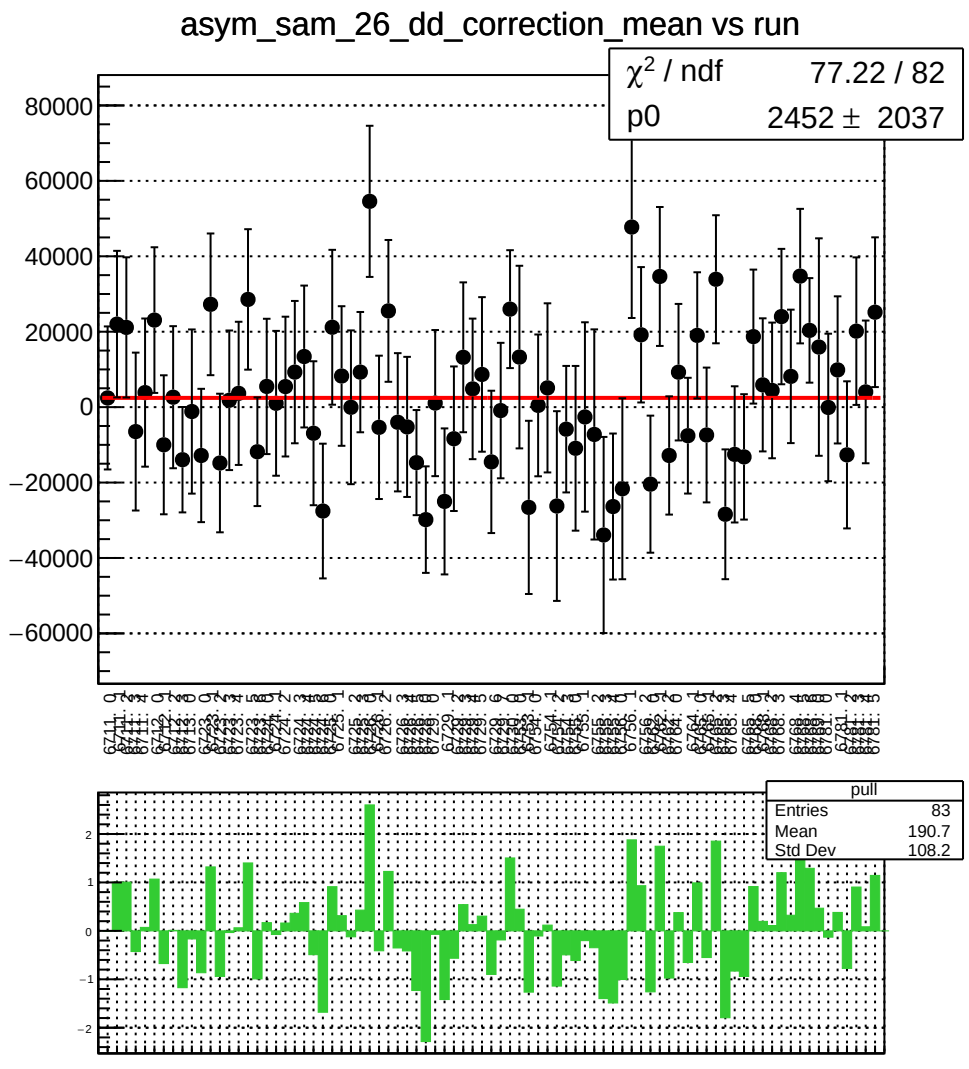

asym_sam_15_dd_mean vs run
χ^2 / ndf 82.58 / 82
p0 −1023 ± 864.4
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 1300
Std Dev 1242
2
1
0
−1
−2
−3

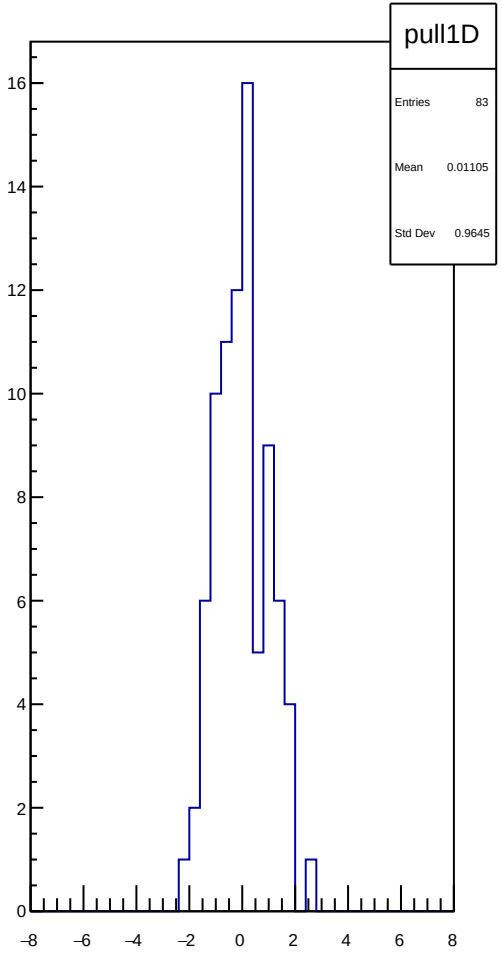

pull1D
Entries 83
Mean −0.001675
Std Dev 0.9975
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

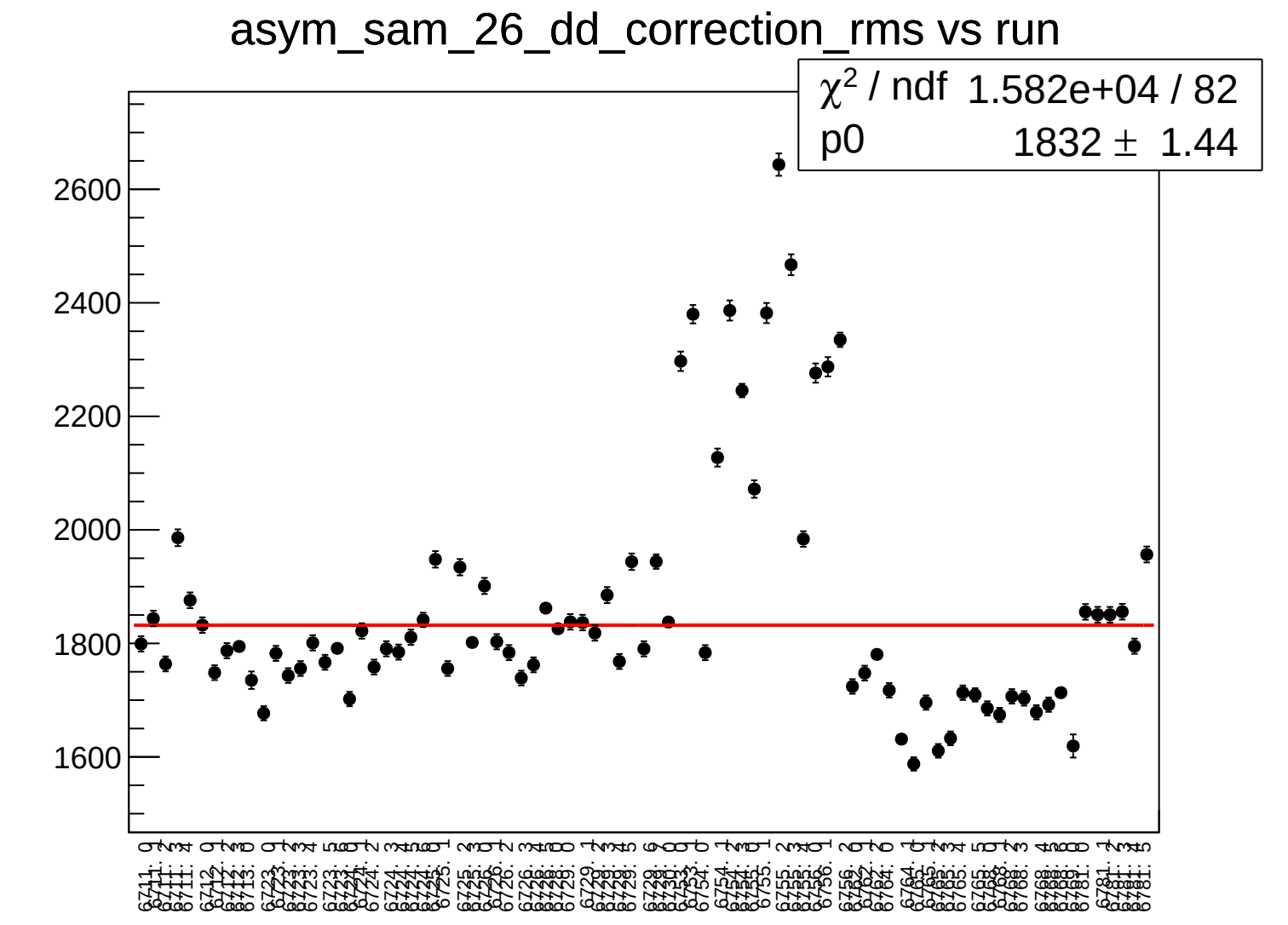

asym_sam_15_dd_rms vs run
χ^2 / ndf 5.823e+04 / 82
p0 767.2 ± 0.6112
1800
1600
1400
1200
1000
800
600

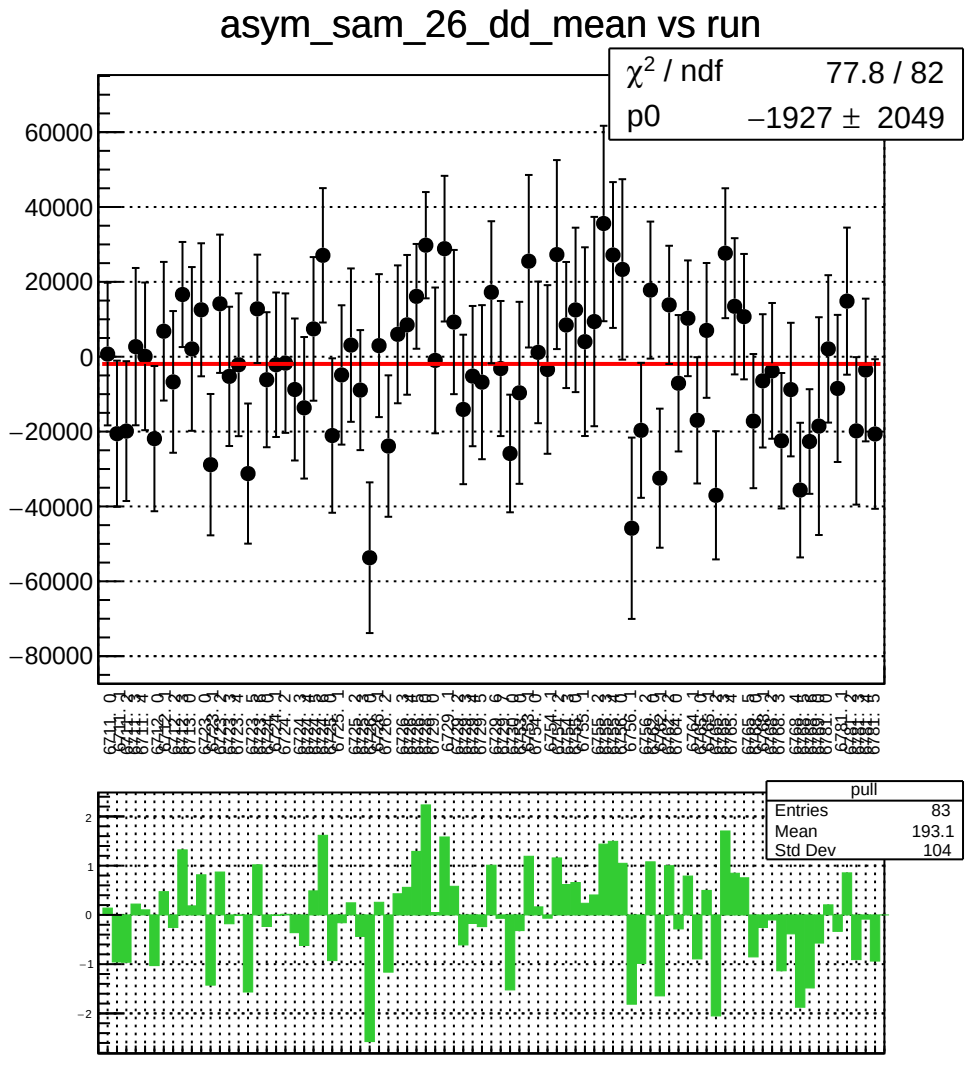

reg_asym_sam_26_dd_mean vs run
χ² / ndf 86.52 / 82
p0 565.6 ± 215.1
pull
Entries 83
Mean 1539
Std Dev 1511
pull1D
Entries 83
Mean 0.001151
Std Dev 1.021

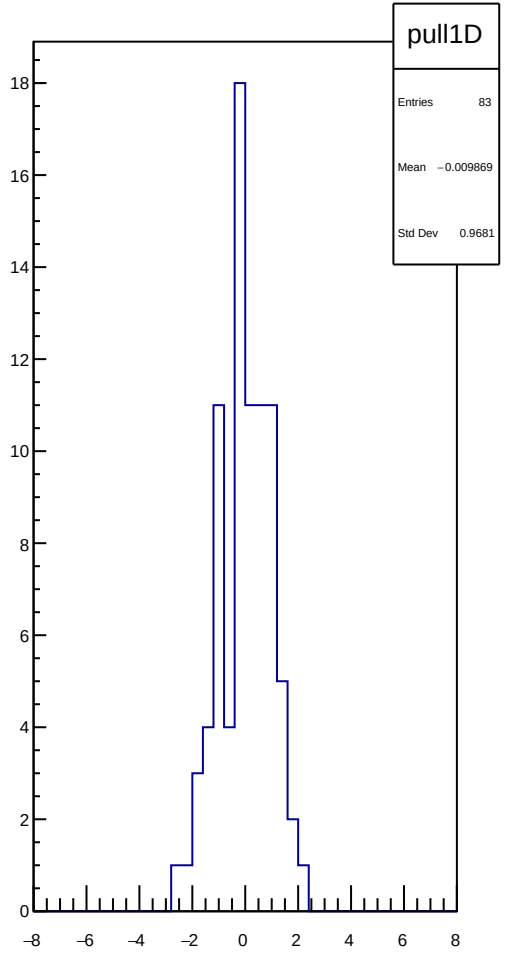

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1.394e+04 / 82
p0 193.6 ± 0.1521
230
220
210
200
190
180
170

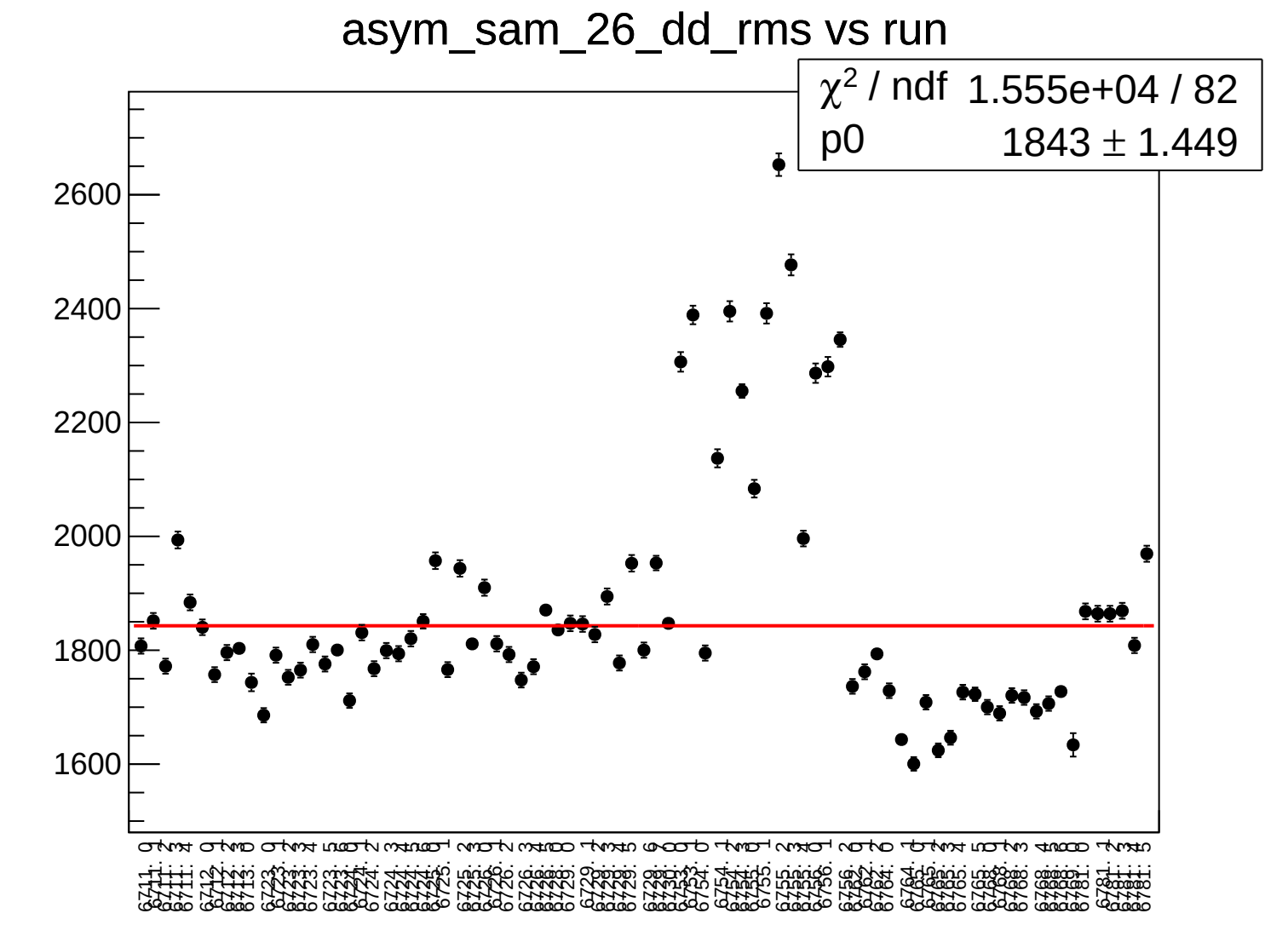

asym_sam_26_dd_correction_mean vs run
χ² / ndf 77.22 / 82
p0 2452 ± 2037
pull
Entries 83
Mean 190.7
Std Dev 108.2

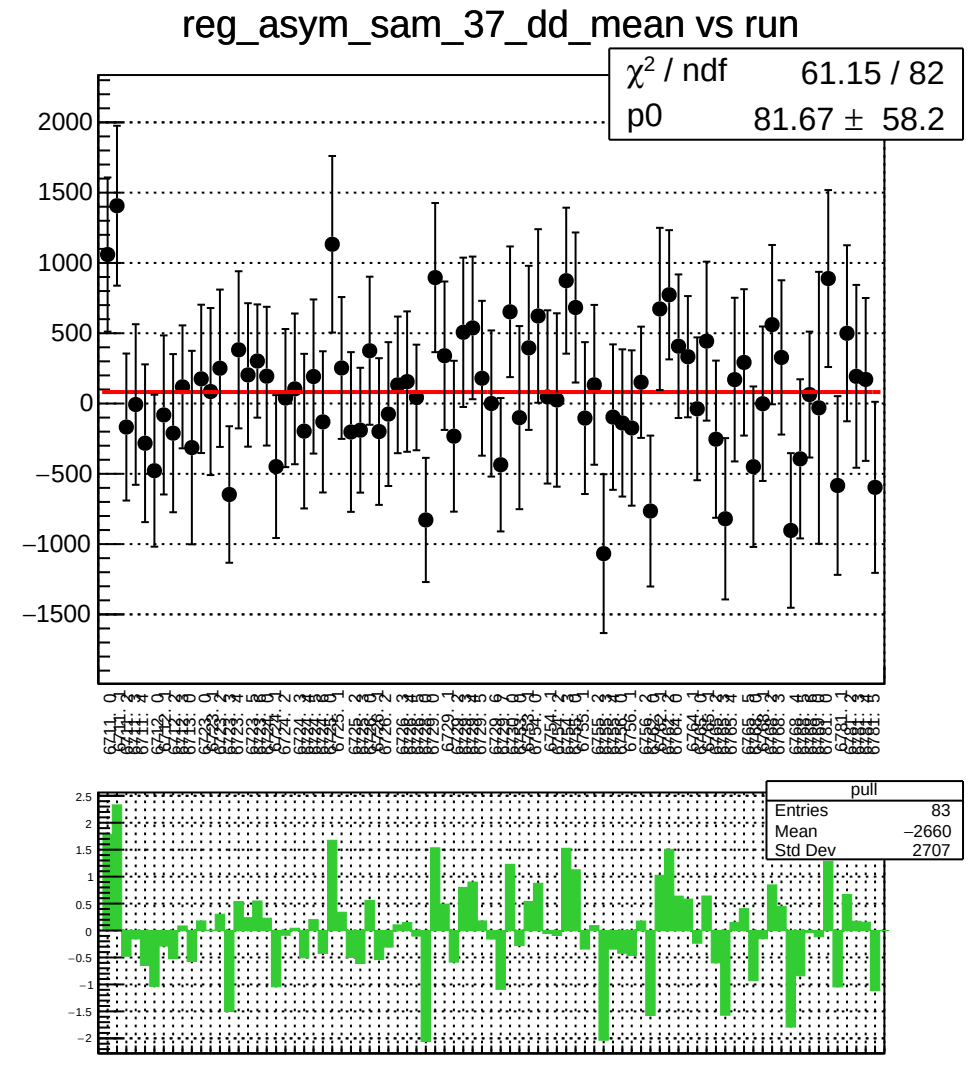

pull1D
Entries 83
Mean 0.01105
Std Dev 0.9645

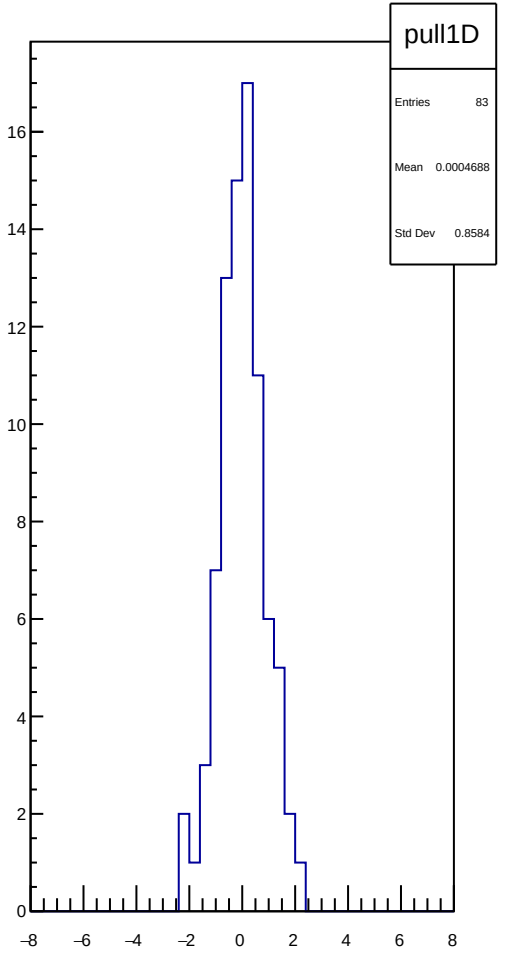

asym_sam_26_dd_correction_rms vs run
χ² / ndf 1.582e+04 / 82
p0 1832 ± 1.44
2600
2400
2200
2000
1800
1600

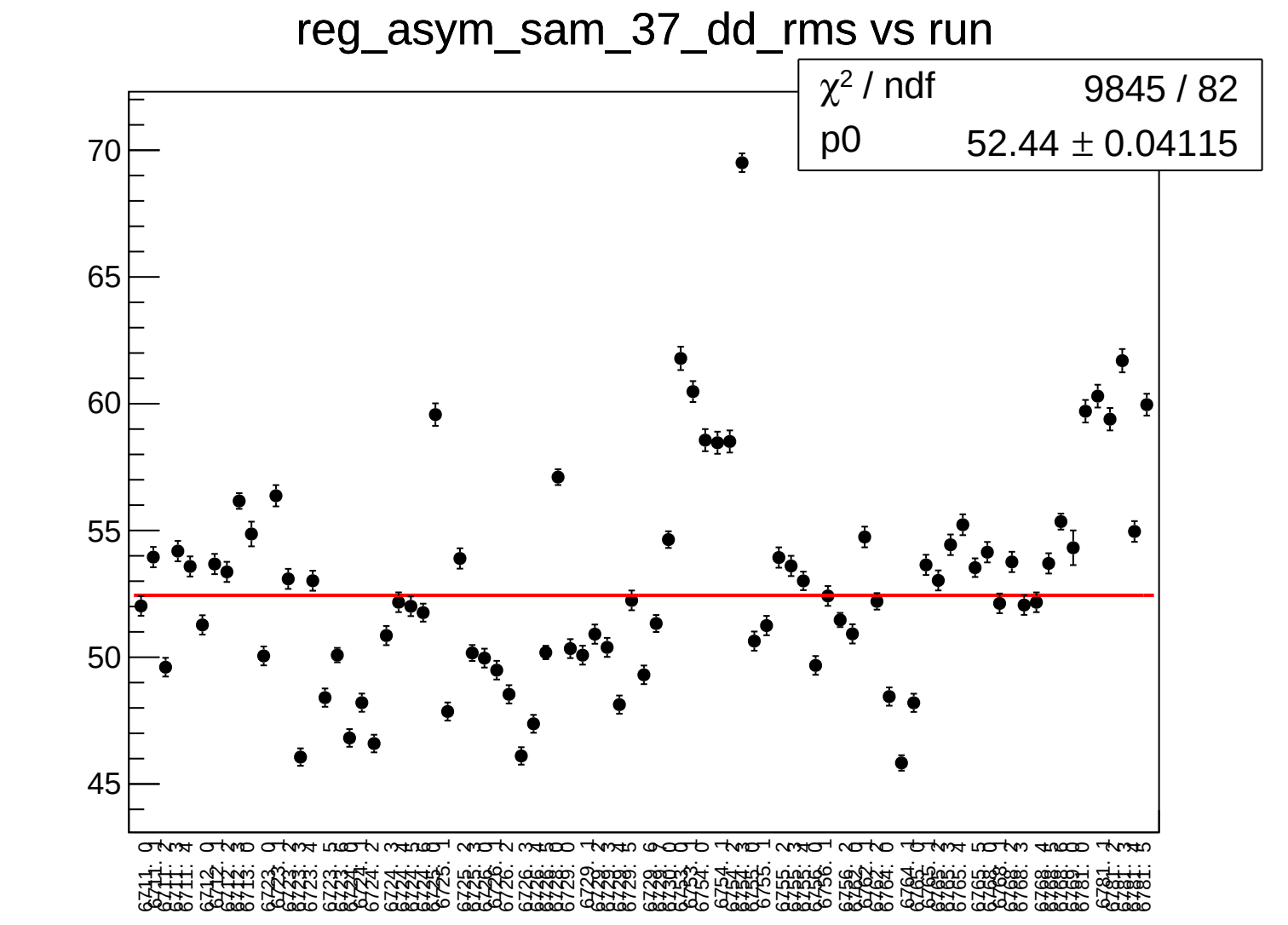

asym_sam_26_dd_mean vs run
χ² / ndf 77.8 / 82
p0 −1927 ± 2049
pull
Entries 83
Mean 193.1
Std Dev 104

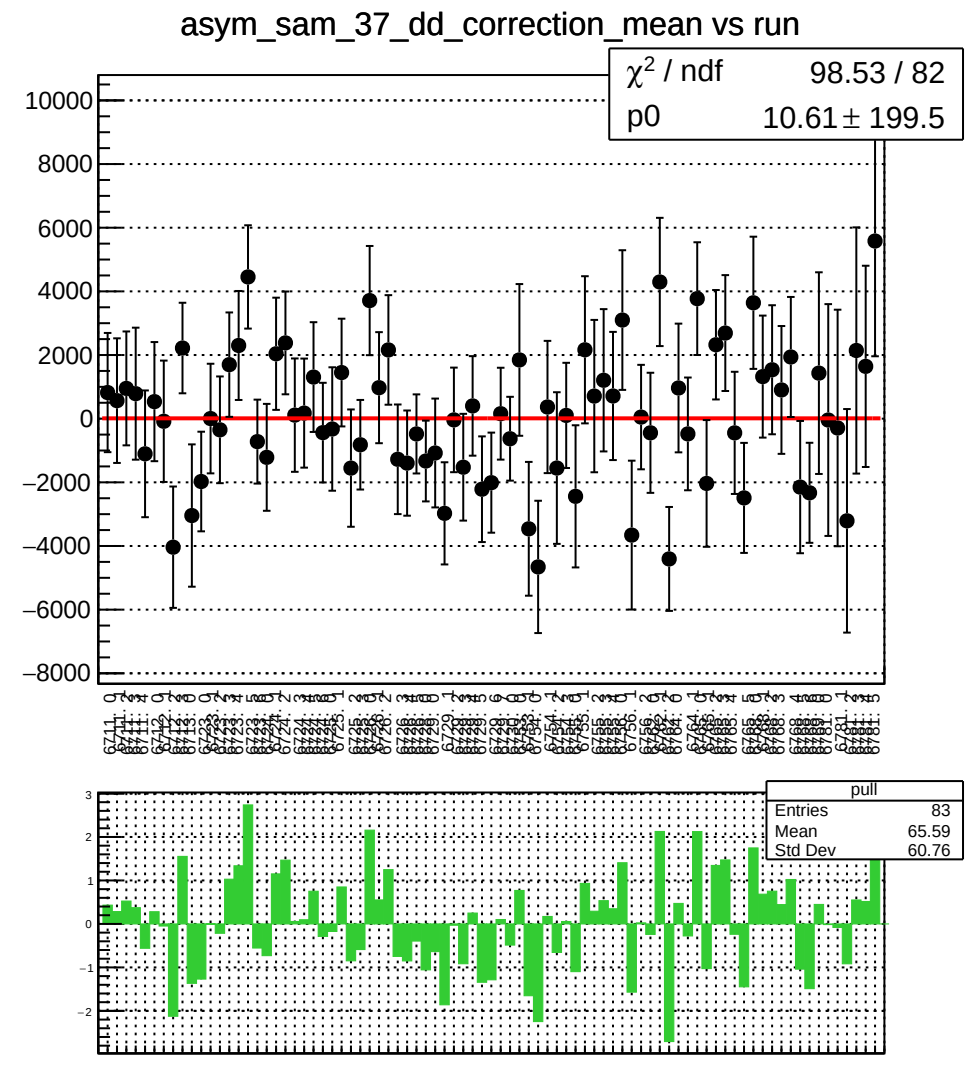

pull1D
Entries 83
Mean −0.009869
Std Dev 0.9681

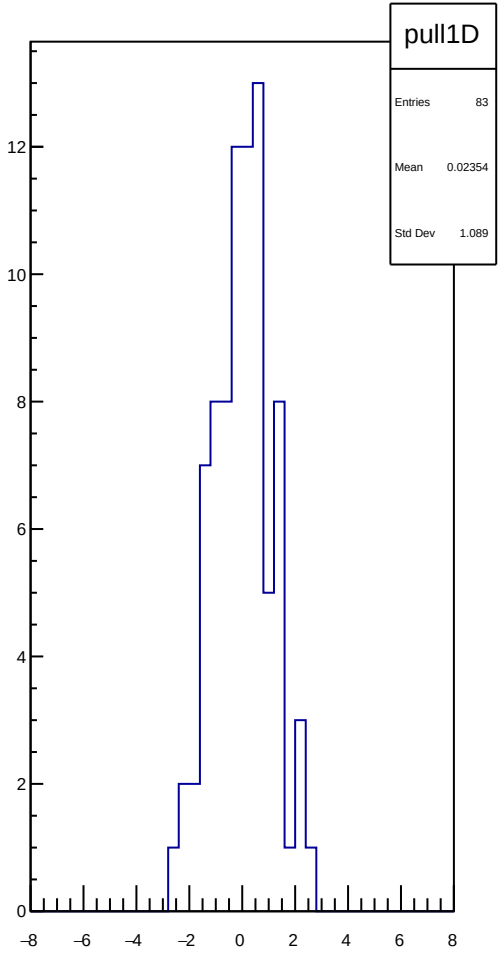

asym_sam_26_dd_rms vs run
χ² / ndf 1.555e+04 / 82
p0 1843 ± 1.449
2600
2400
2200
2000
1800
1600

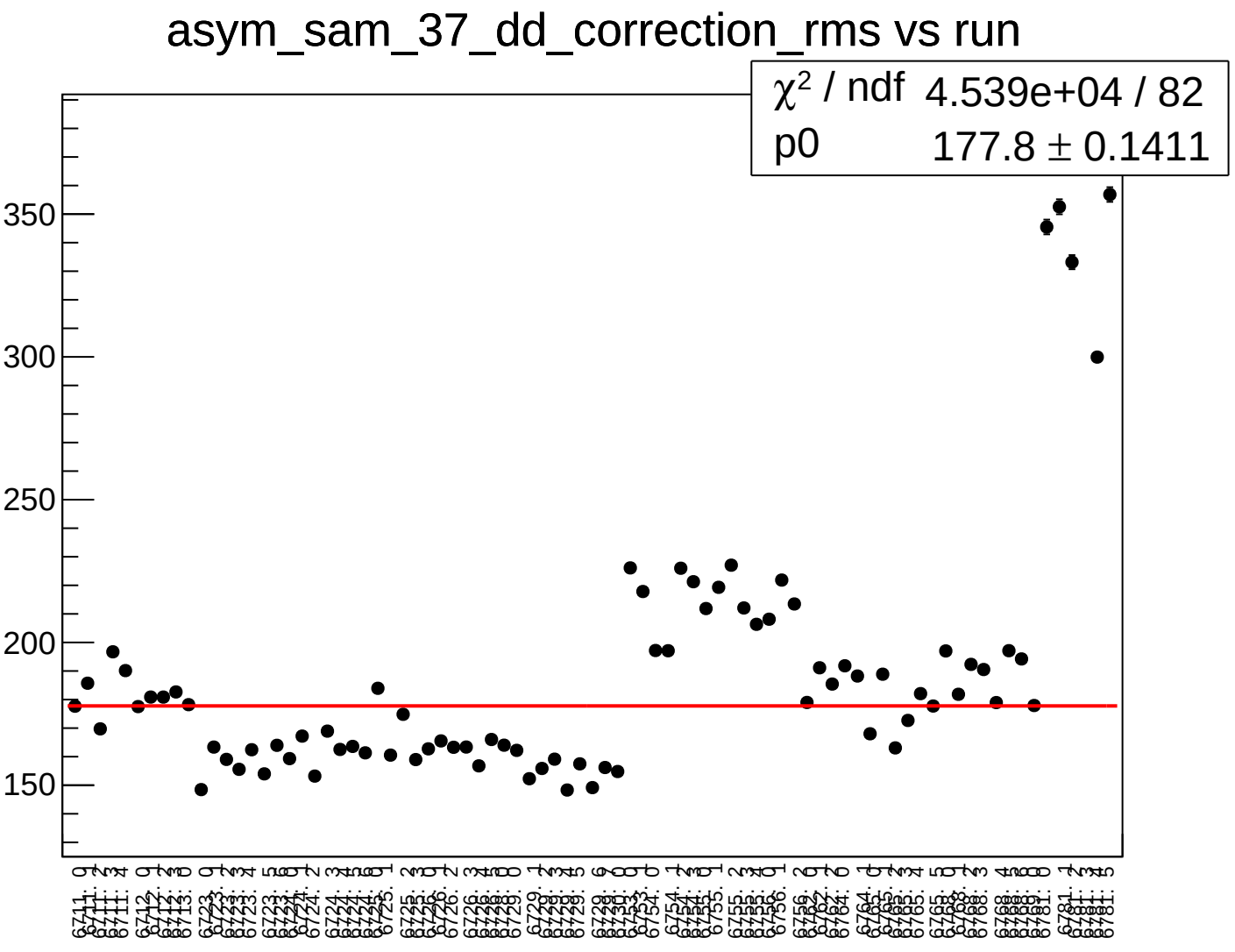

reg_asym_sam_37_dd_mean vs run
χ² / ndf 61.15 / 82
p0 81.67 ± 58.2
pull
Entries 83
Mean −2660
Std Dev 2707

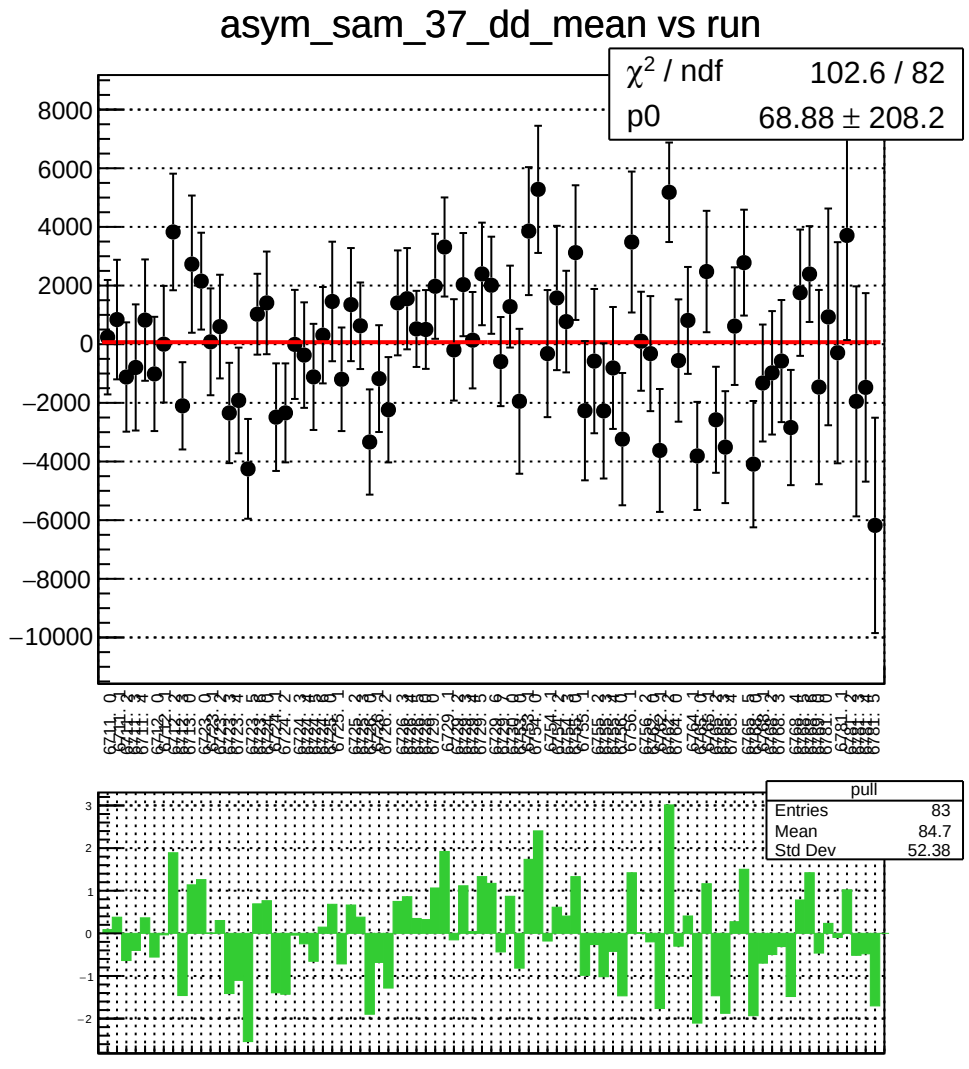

pull1D
Entries 83
Mean 0.0004688
Std Dev 0.8584

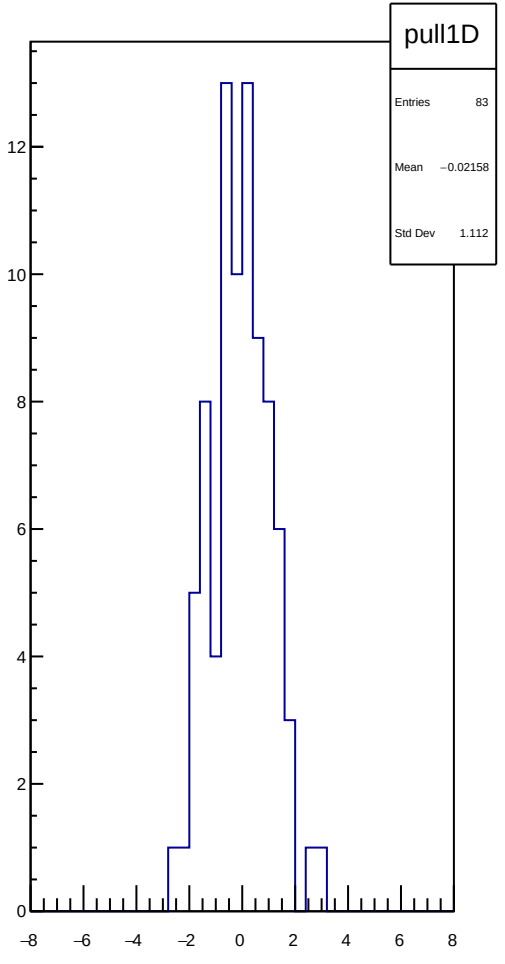

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 9845 / 82
p0 52.44 ± 0.04115
70
65
60
55
50
45

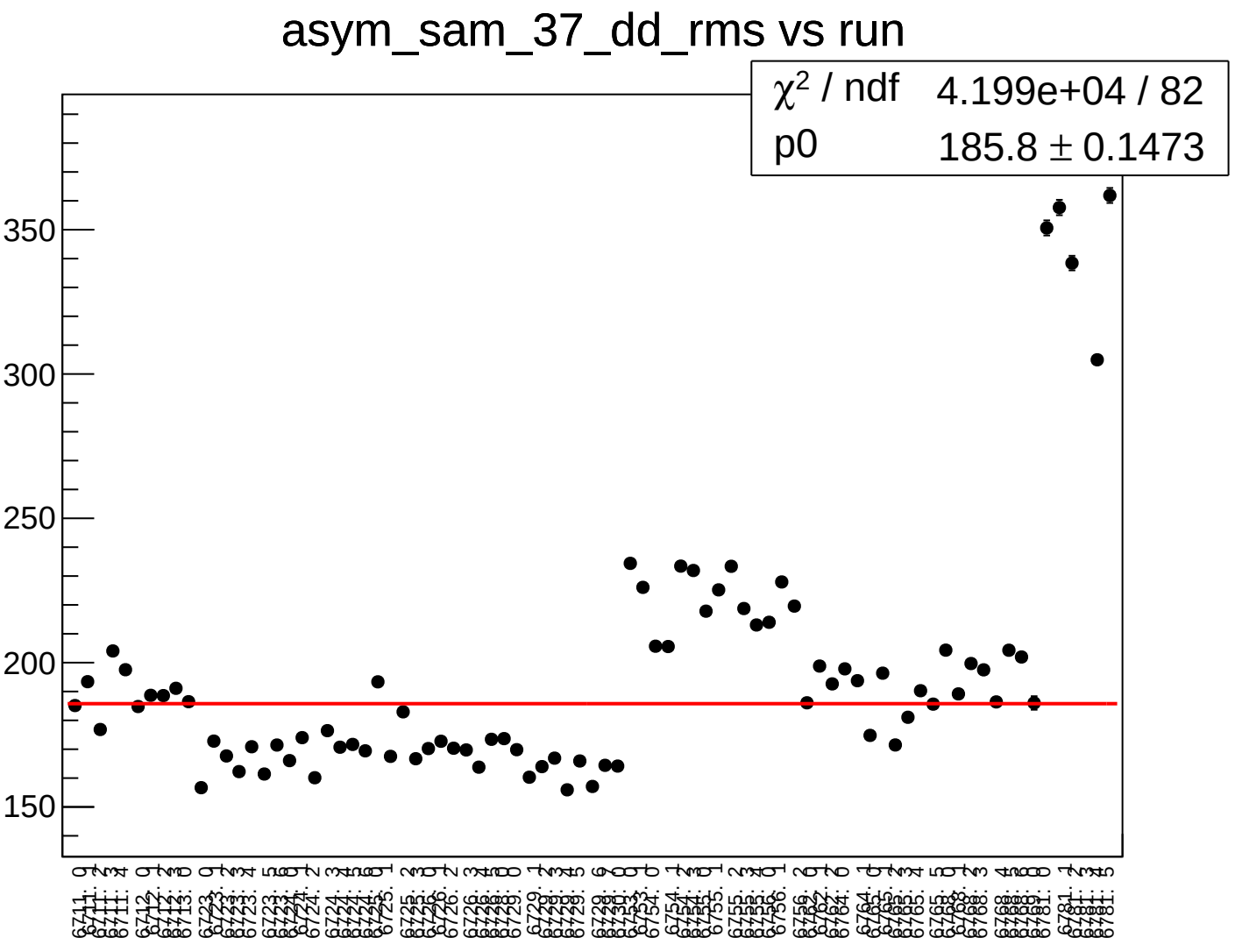

asym_sam_37_dd_correction_mean vs run
χ² / ndf 98.53 / 82
p0 10.61 ± 199.5
pull
Entries 83
Mean 65.59
Std Dev 60.76

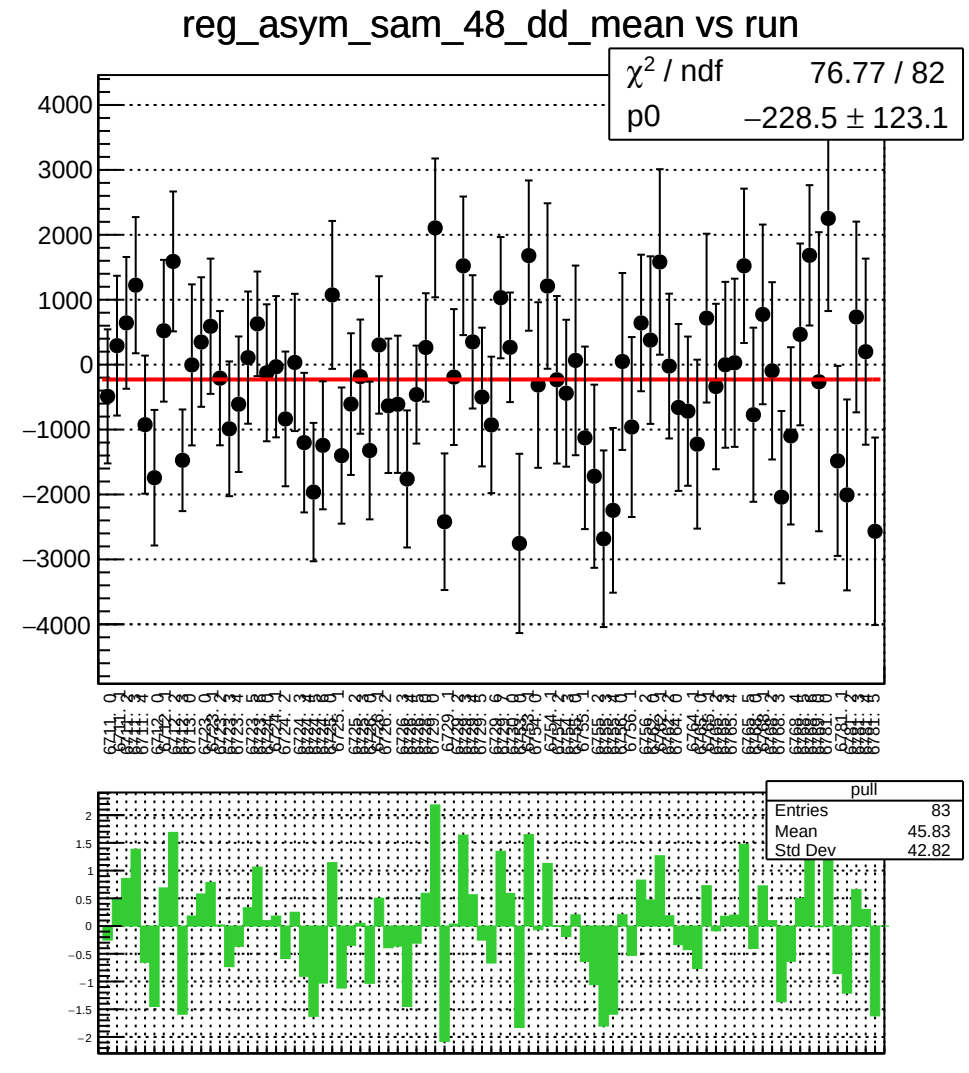

pull1D
Entries 83
Mean 0.02354
Std Dev 1.089

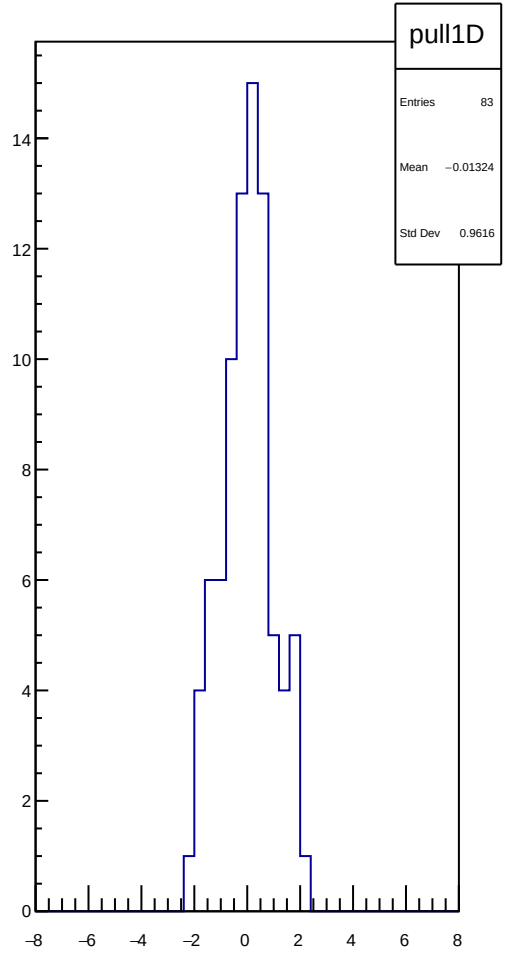

asym_sam_37_dd_correction_rms vs run
χ² / ndf 4.539e+04 / 82
p0 177.8 ± 0.1411
350
300
250
200
150

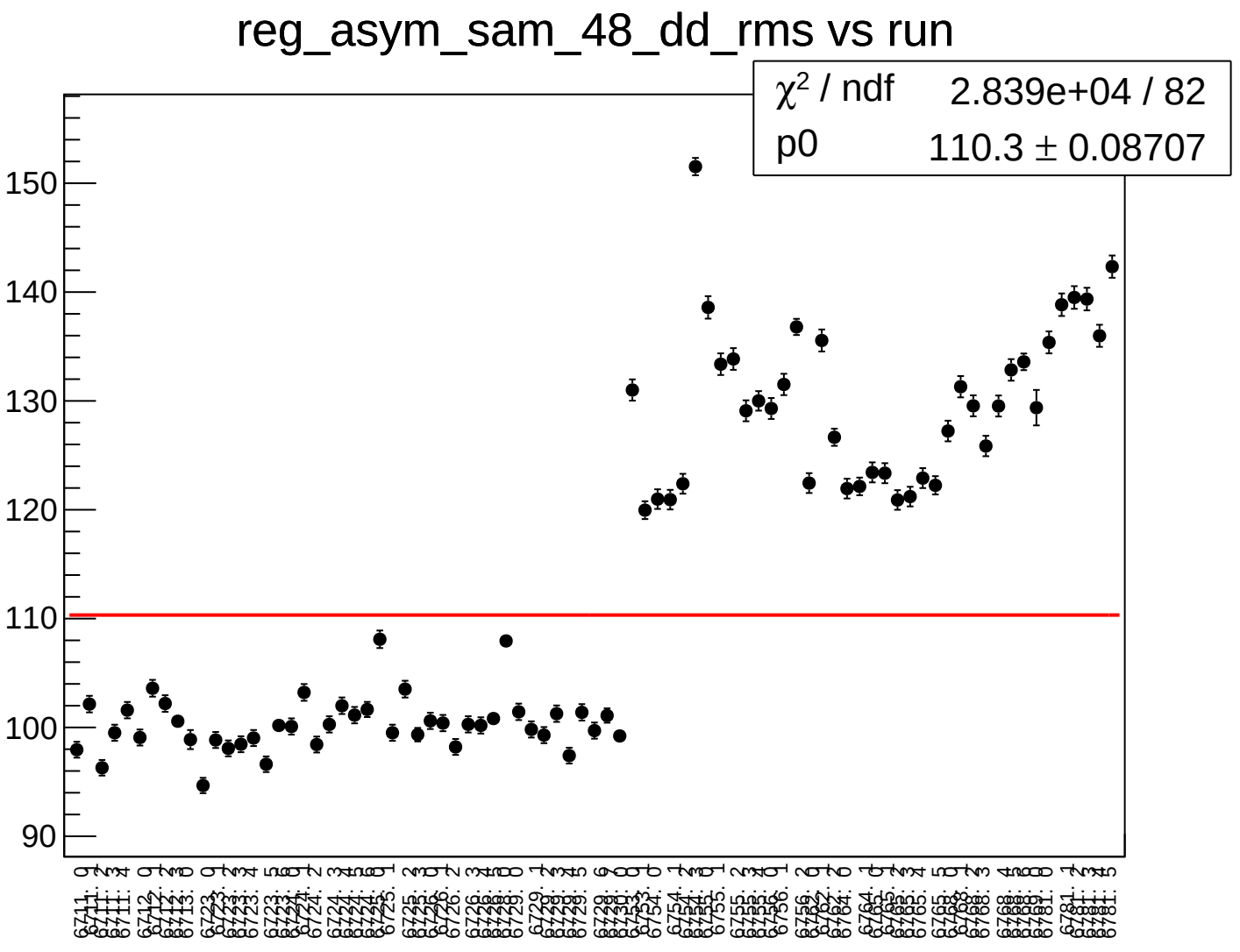

asym_sam_37_dd_mean vs run
χ² / ndf 102.6 / 82
p0 68.88 ± 208.2
pull
Entries 83
Mean 84.7
Std Dev 52.38

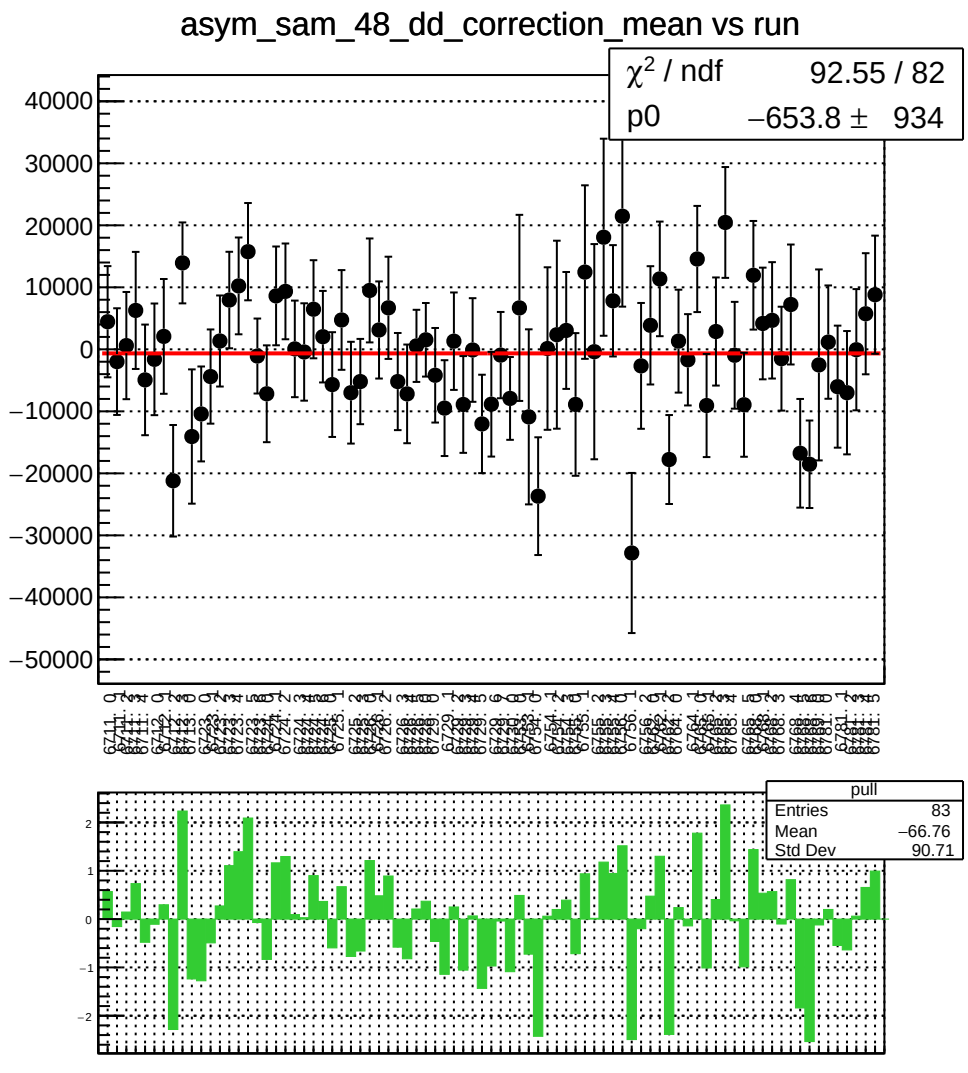

pull1D
Entries 83
Mean −0.02158
Std Dev 1.112

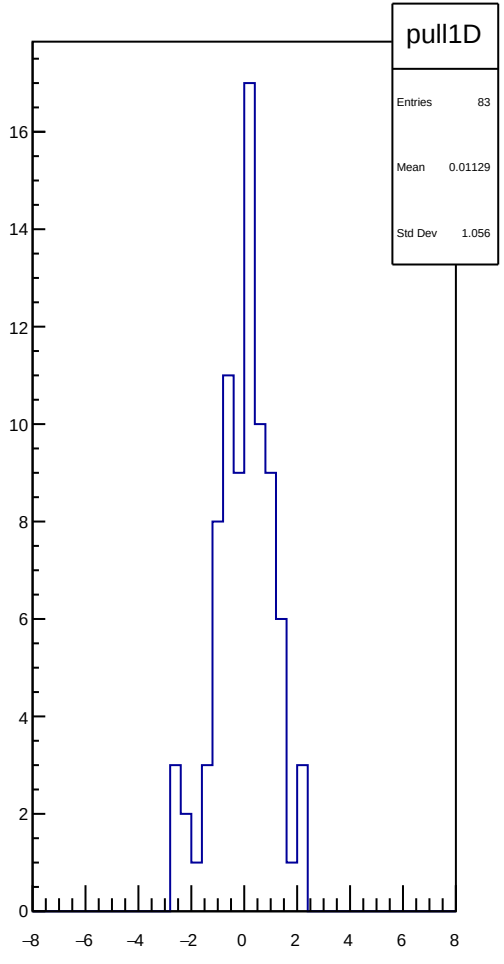

asym_sam_37_dd_rms vs run
χ² / ndf 4.199e+04 / 82
p0 185.8 ± 0.1473
350
300
250
200
150

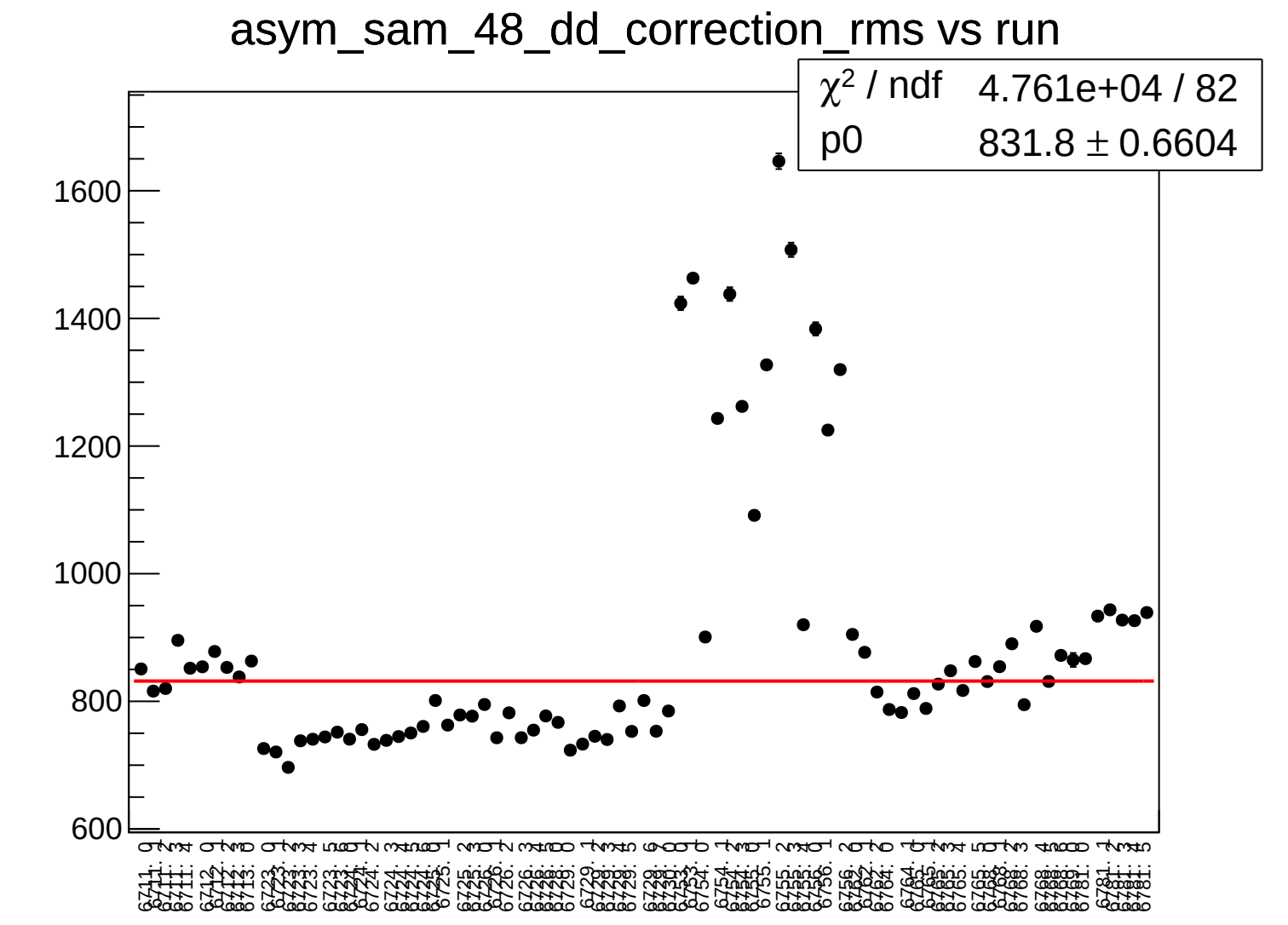

reg_asym_sam_48_dd_mean vs run
χ² / ndf 76.77 / 82
p0 −228.5 ± 123.1
pull
Entries 83
Mean 45.83
Std Dev 42.82

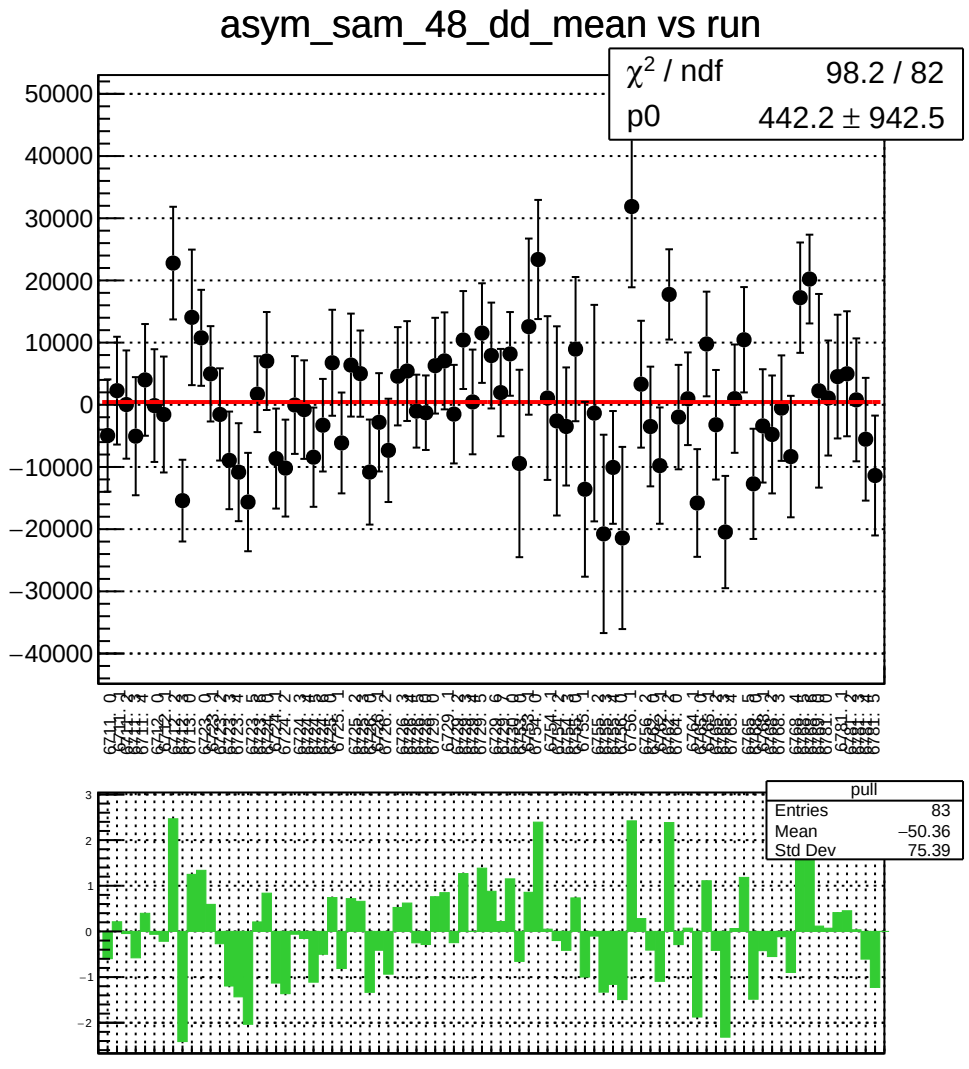

pull1D
Entries 83
Mean −0.01324
Std Dev 0.9616

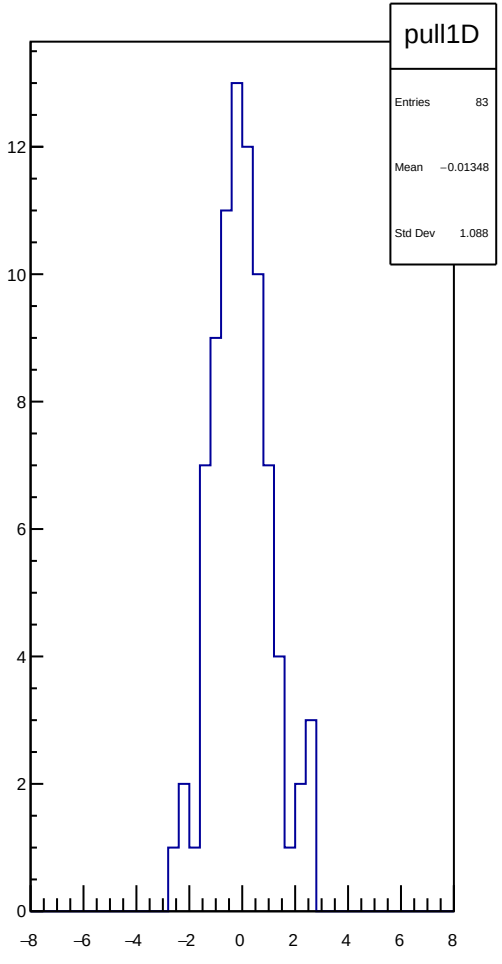

reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 2.839e+04 / 82
p0 110.3 ± 0.08707
150
140
130
120
110
100
90

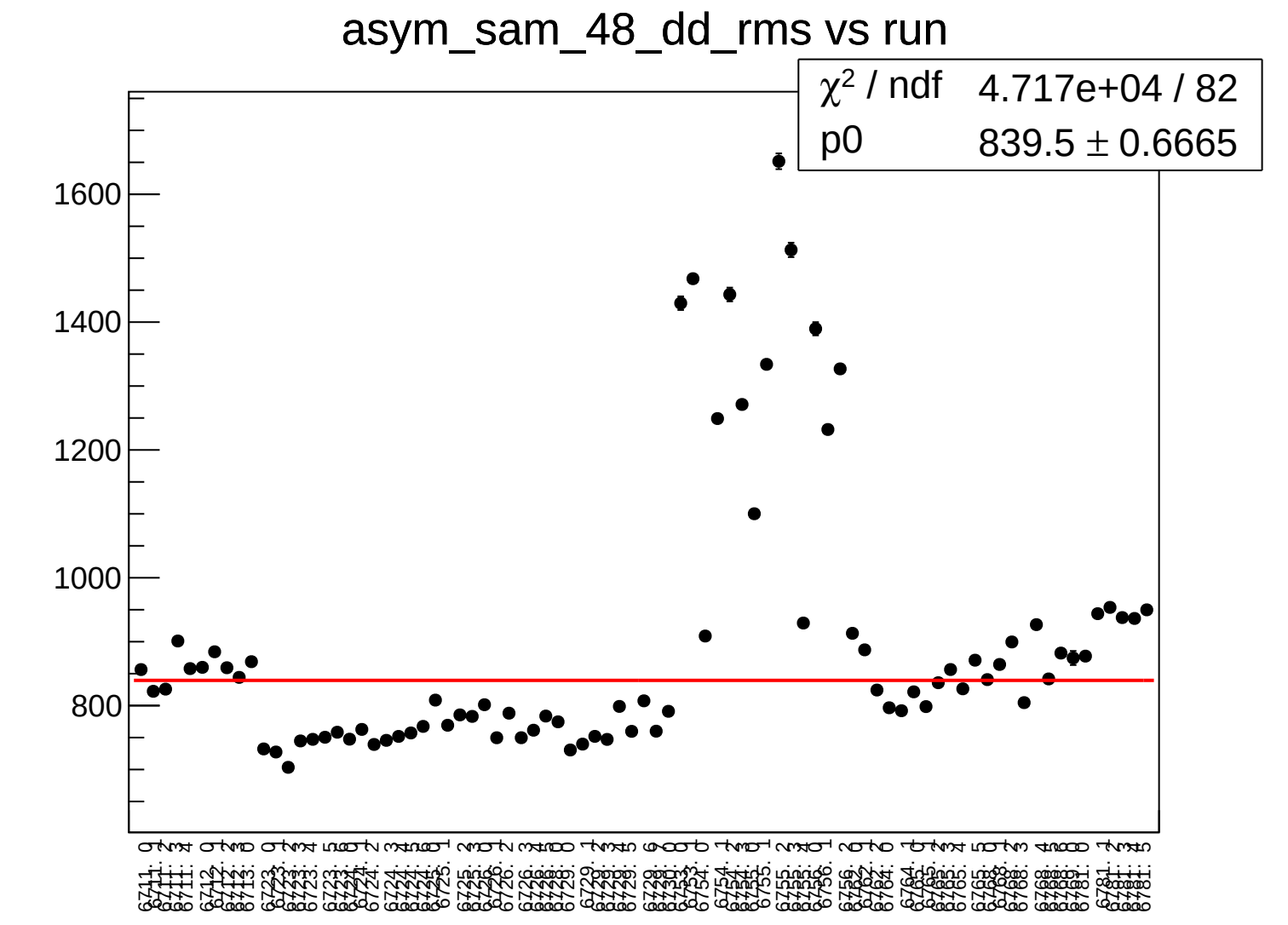

asym_sam_48_dd_correction_mean vs run
χ² / ndf 92.55 / 82
p0 −653.8 ± 934
pull
Entries 83
Mean −66.76
Std Dev 90.71

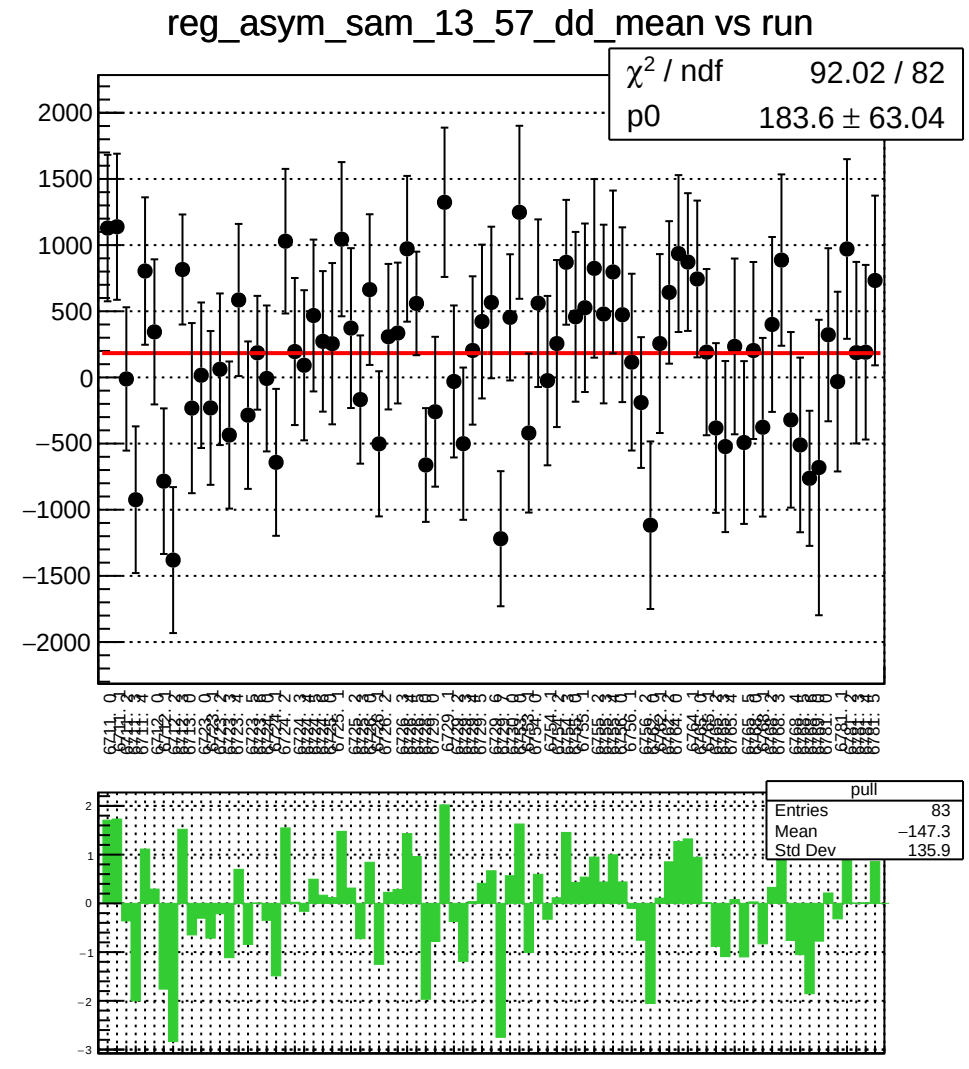

pull1D
Entries 83
Mean 0.01129
Std Dev 1.056

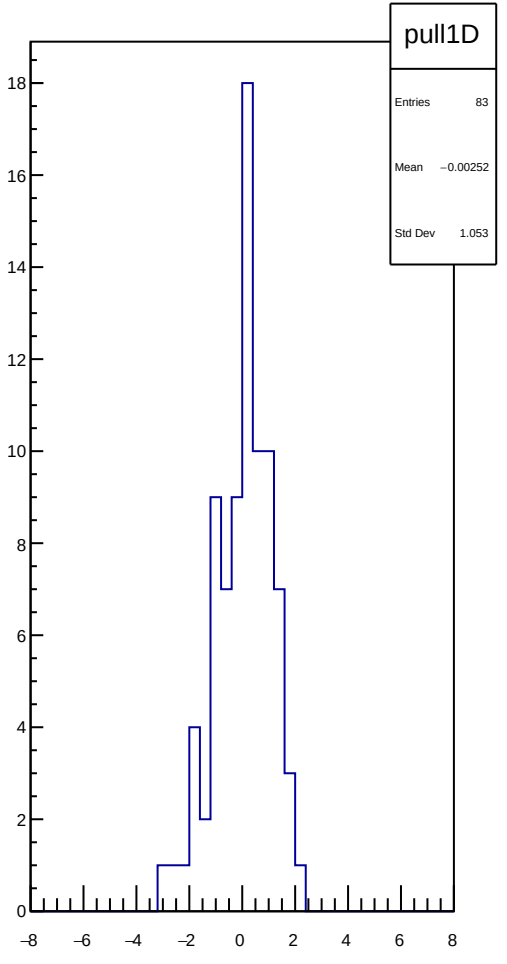

asym_sam_48_dd_correction_rms vs run
χ² / ndf 4.761e+04 / 82
p0 831.8 ± 0.6604
1600
1400
1200
1000
800
600

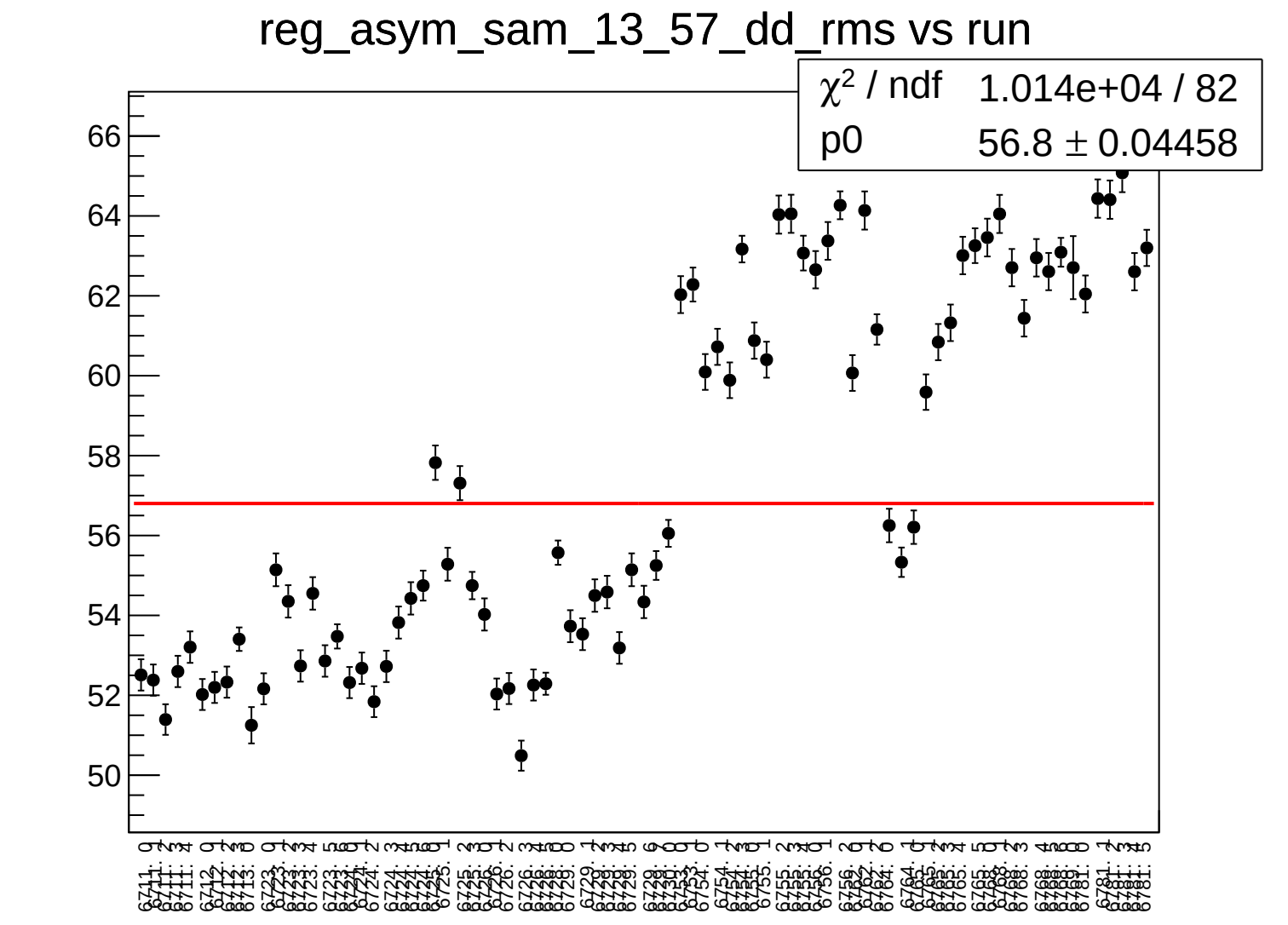

asym_sam_48_dd_mean vs run
χ² / ndf 98.2 / 82
p0 442.2 ± 942.5
pull
Entries 83
Mean −50.36
Std Dev 75.39

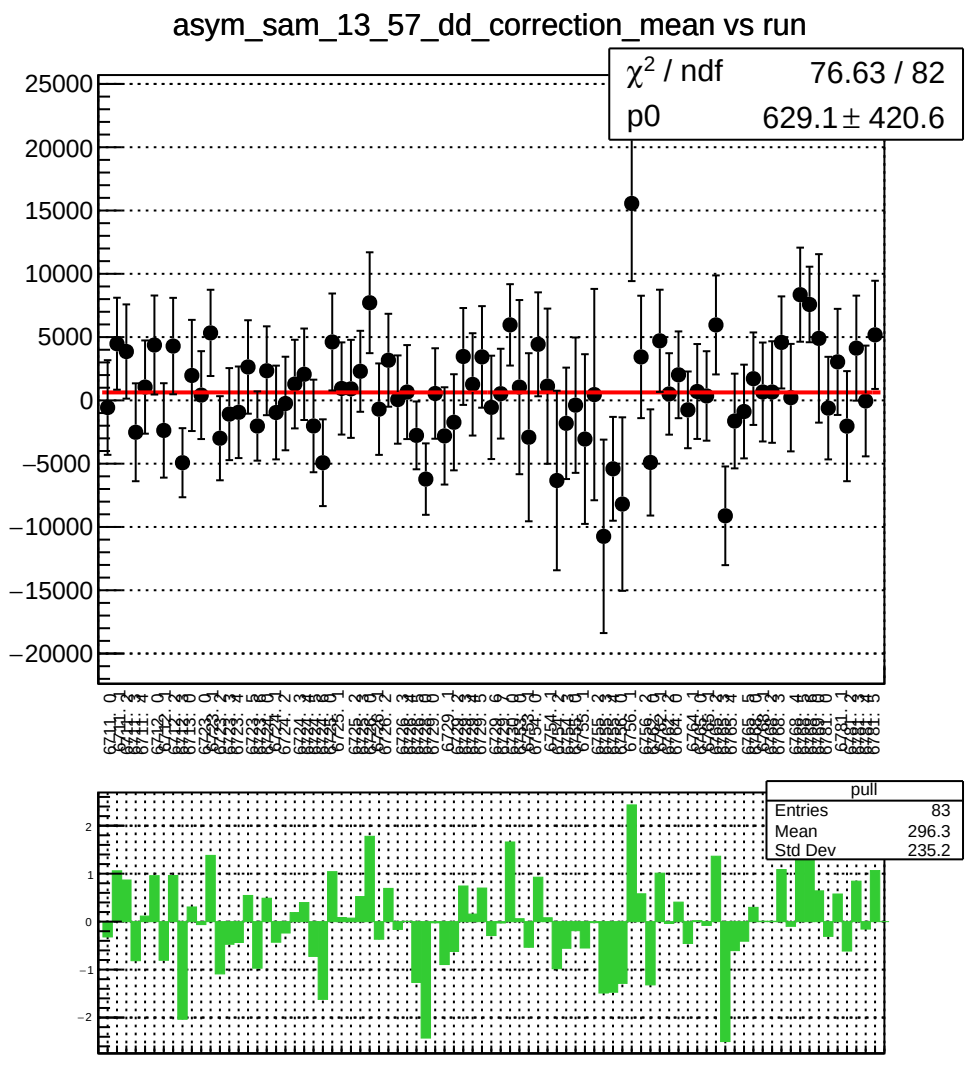

pull1D
Entries 83
Mean −0.01348
Std Dev 1.088

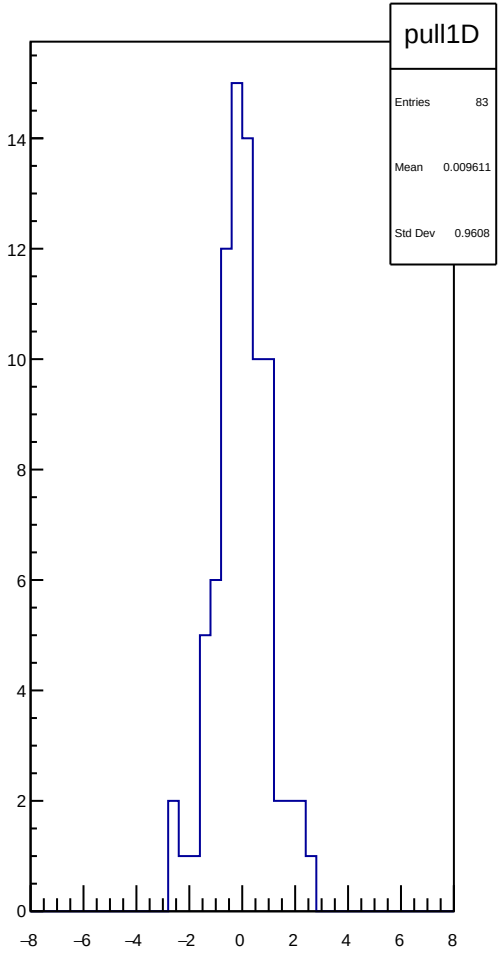

asym_sam_48_dd_rms vs run
χ² / ndf 4.717e+04 / 82
p0 839.5 ± 0.6665
1600
1400
1200
1000
800

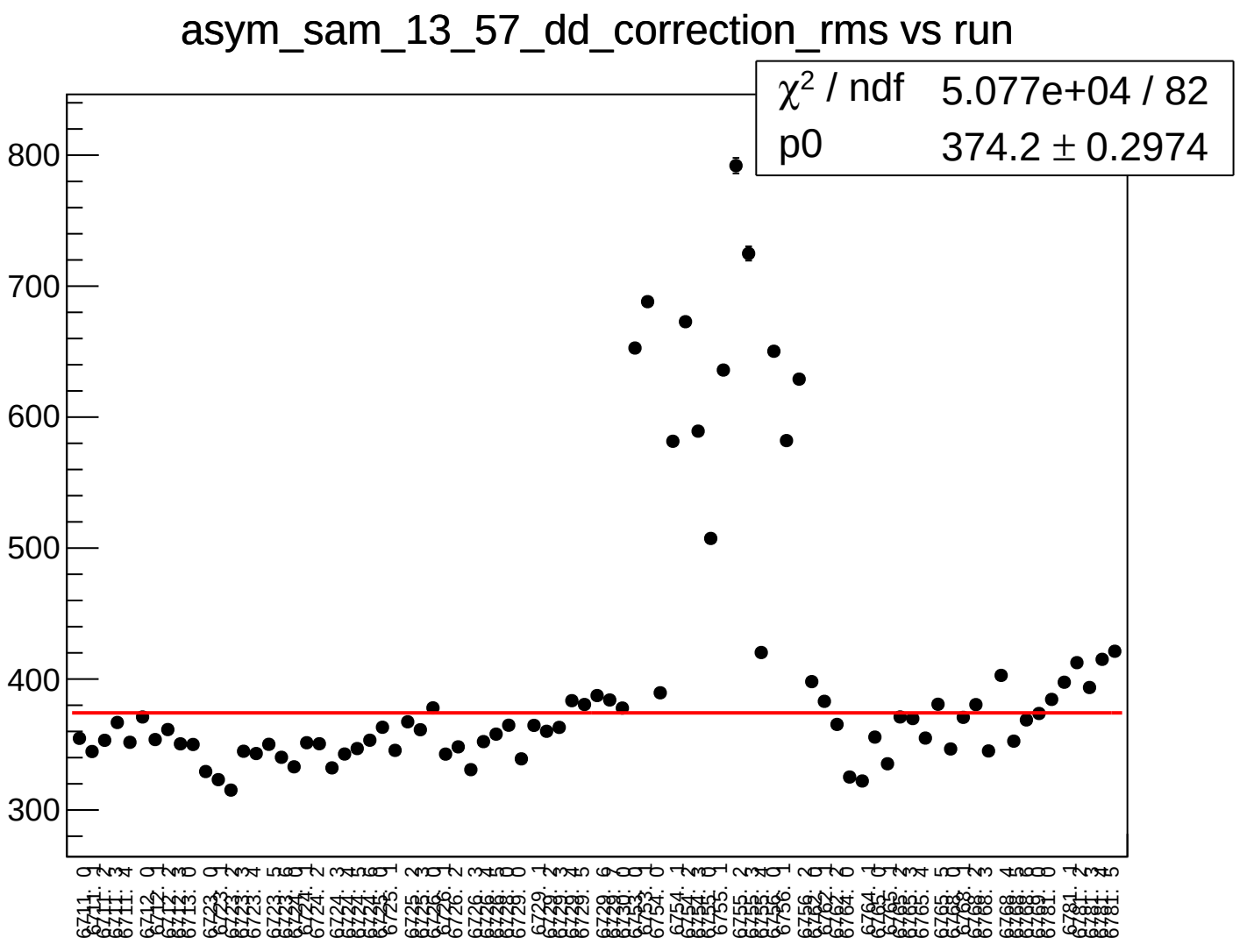

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 92.02 / 82
p0 183.6 ± 63.04
pull
Entries 83
Mean −147.3
Std Dev 135.9

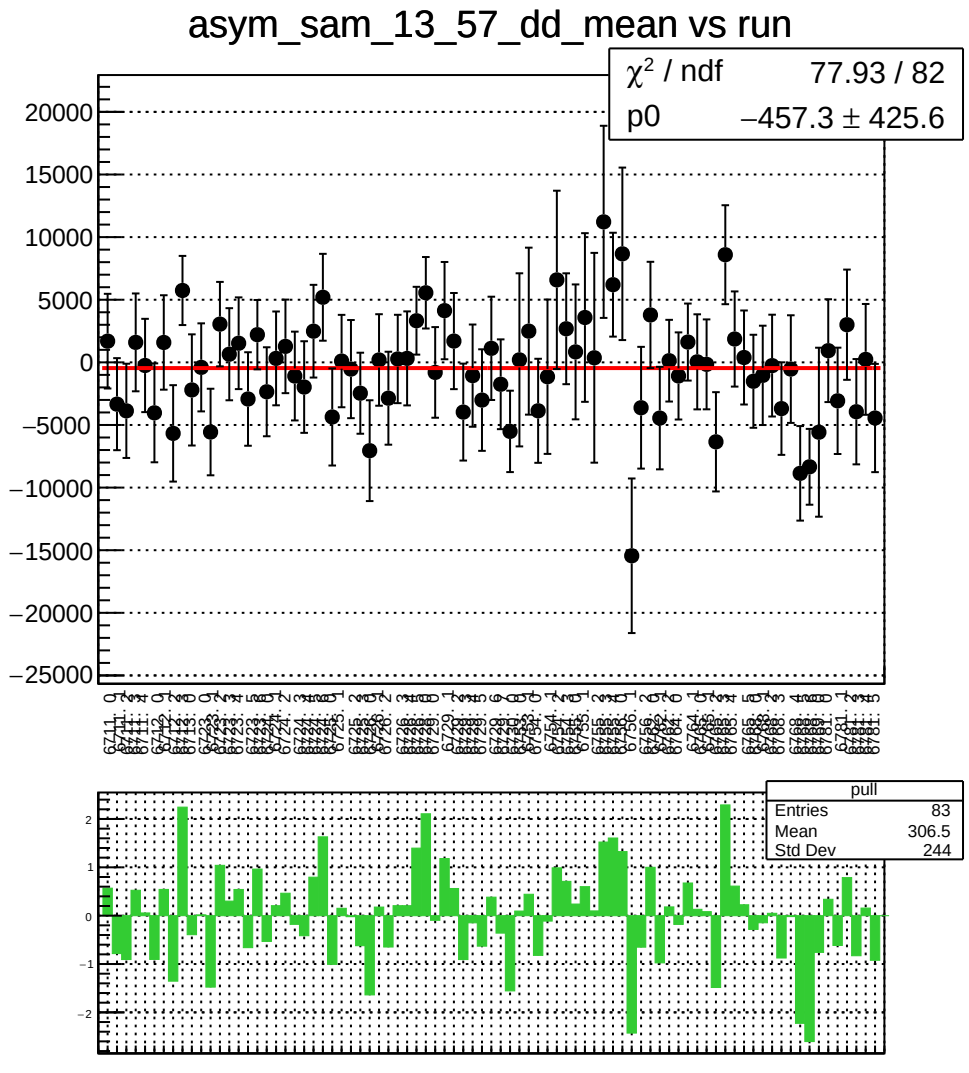

pull1D
Entries 83
Mean −0.00252
Std Dev 1.053

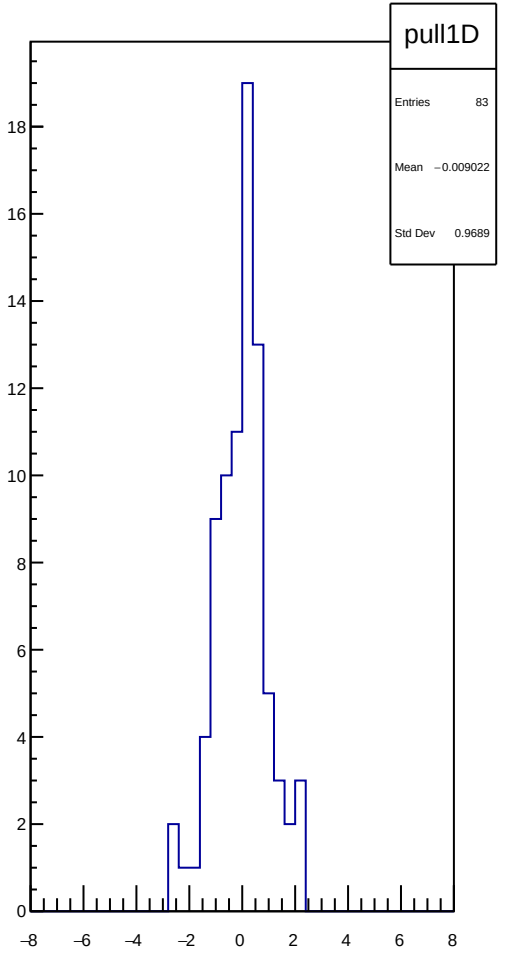

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.014e+04 / 82
p0 56.8 ± 0.04458
66
64
62
60
58
56
54
52
50

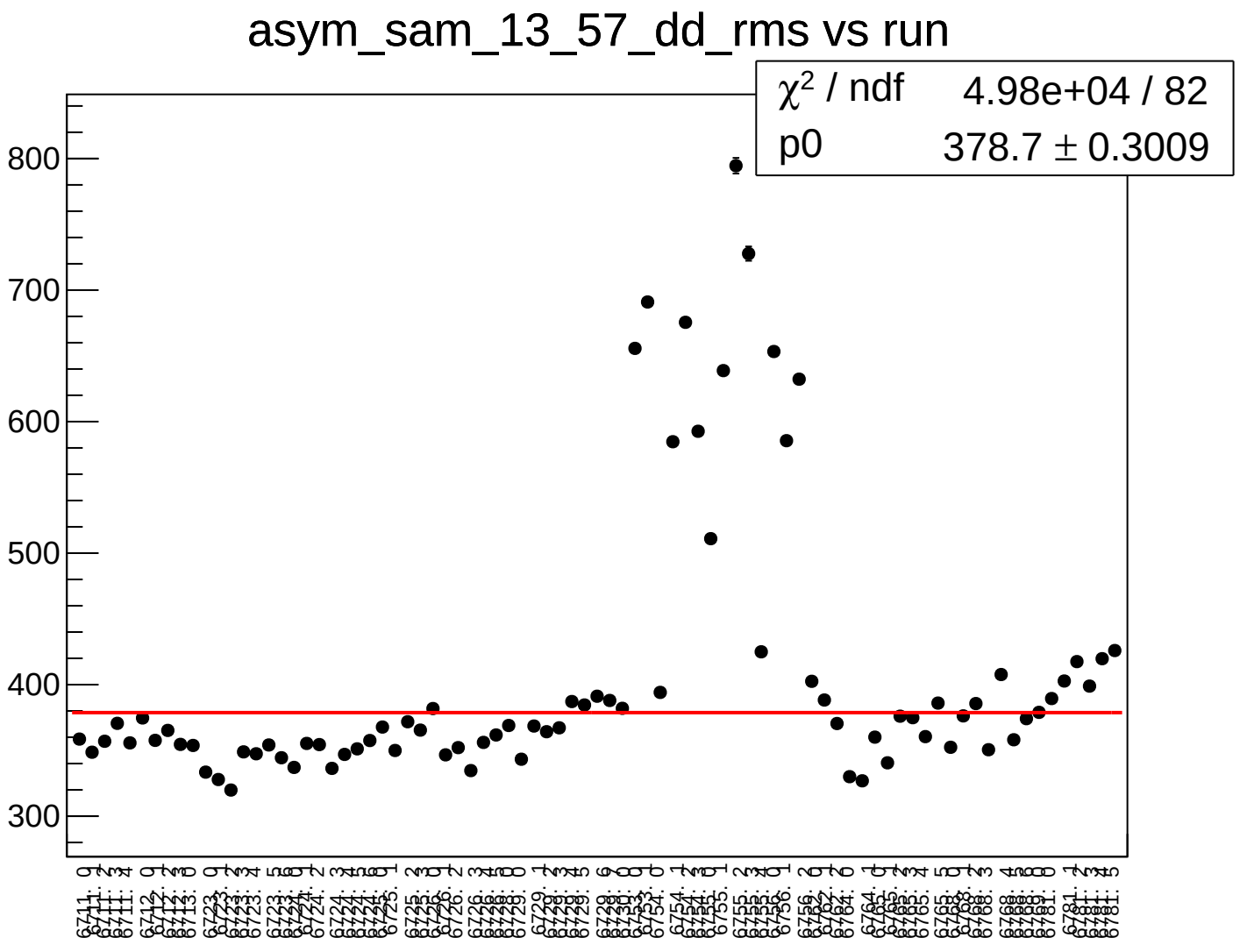

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 76.63 / 82
p0 629.1 ± 420.6
pull
Entries 83
Mean 296.3
Std Dev 235.2

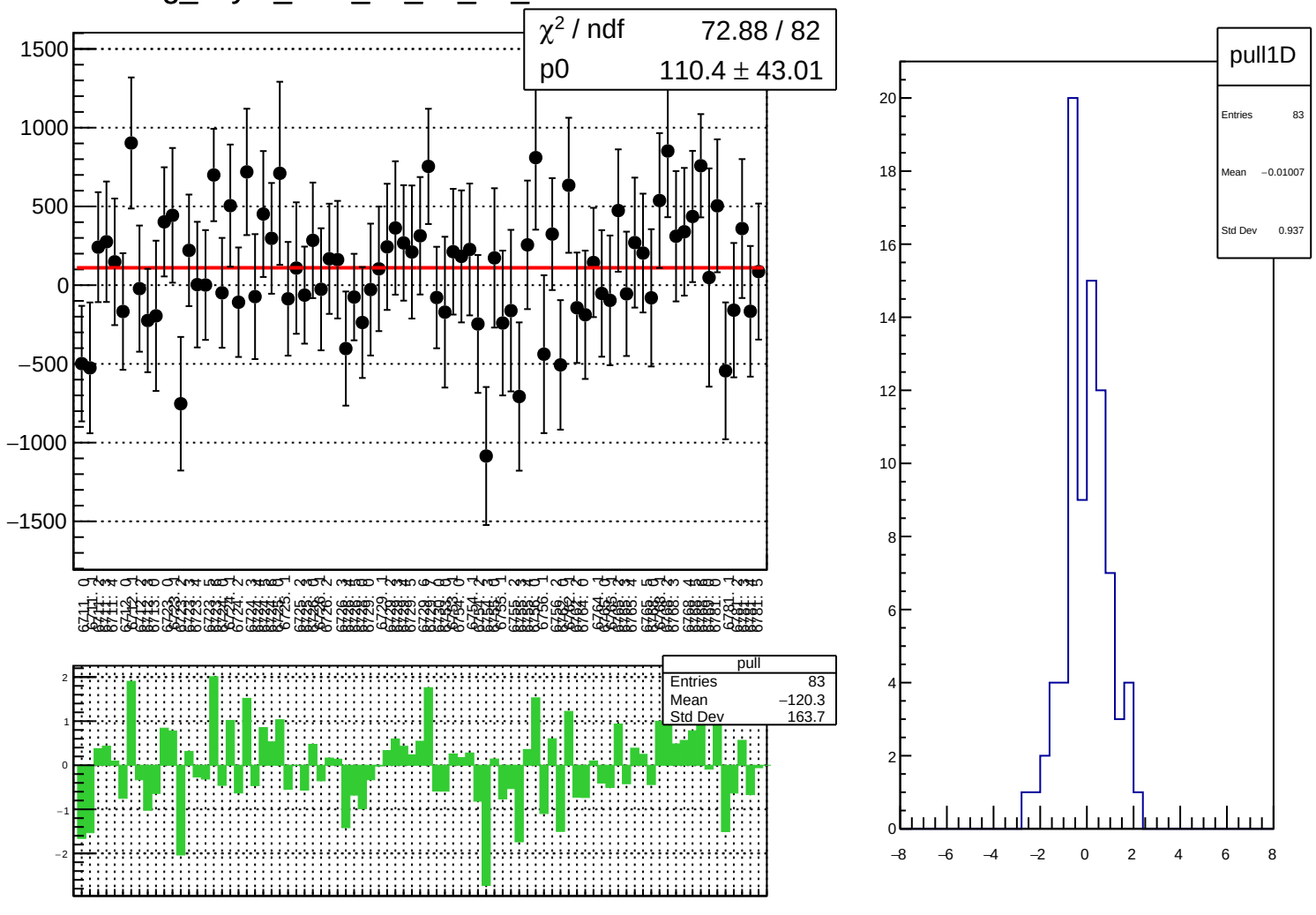

pull1D
Entries 83
Mean 0.009611
Std Dev 0.9608


asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 5.077e+04 / 82
p0 374.2 ± 0.2974
800
700
600
500
400
300

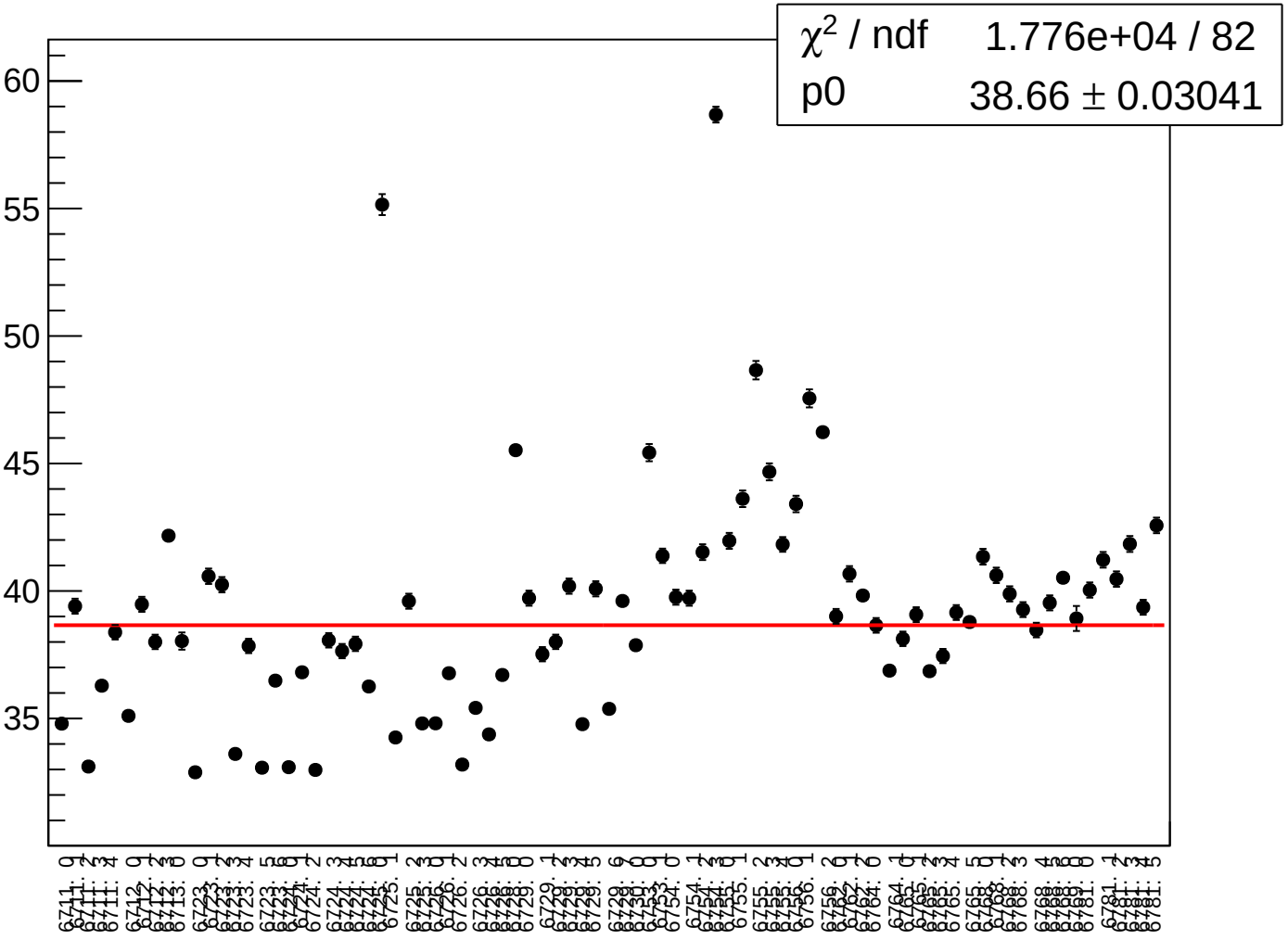

asym_sam_13_57_dd_mean vs run
χ² / ndf 77.93 / 82
p0 −457.3 ± 425.6
pull
Entries 83
Mean 306.5
Std Dev 244

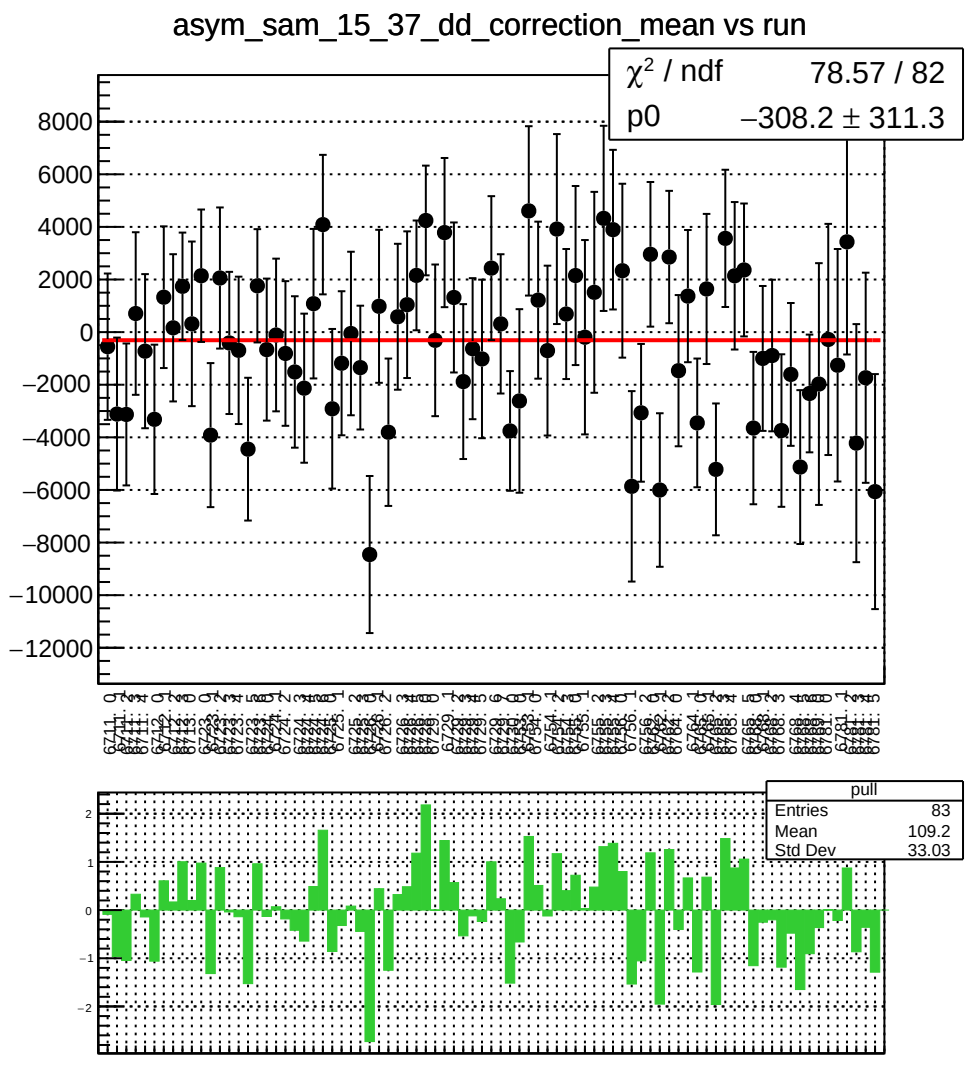

pull1D
Entries 83
Mean −0.009022
Std Dev 0.9689

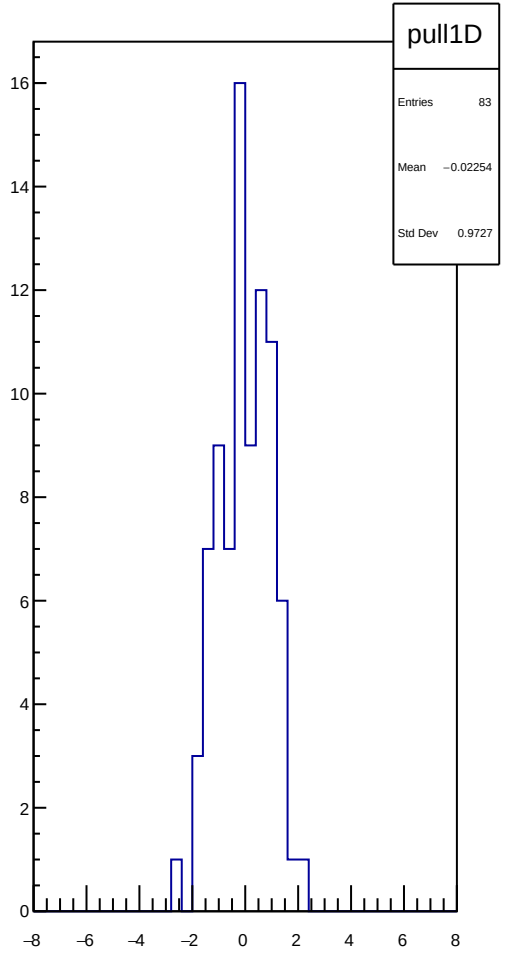

asym_sam_13_57_dd_rms vs run
χ² / ndf 4.98e+04 / 82
p0 378.7 ± 0.3009
800
700
600
500
400
300

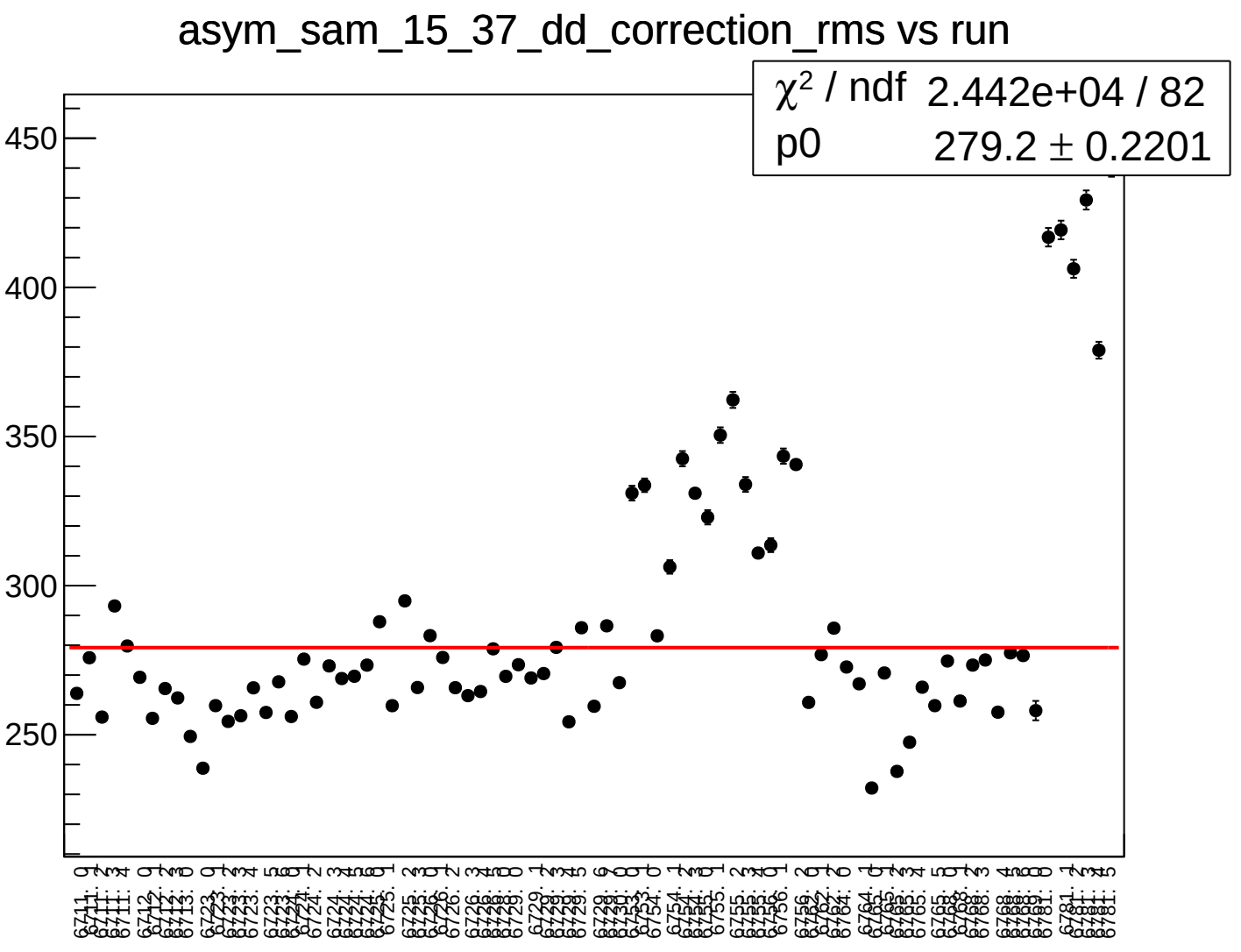

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 72.88 / 82
p0 110.4 ± 43.01
pull
Entries 83
Mean −120.3
Std Dev 163.7
pull1D
Entries 83
Mean −0.01007
Std Dev 0.937

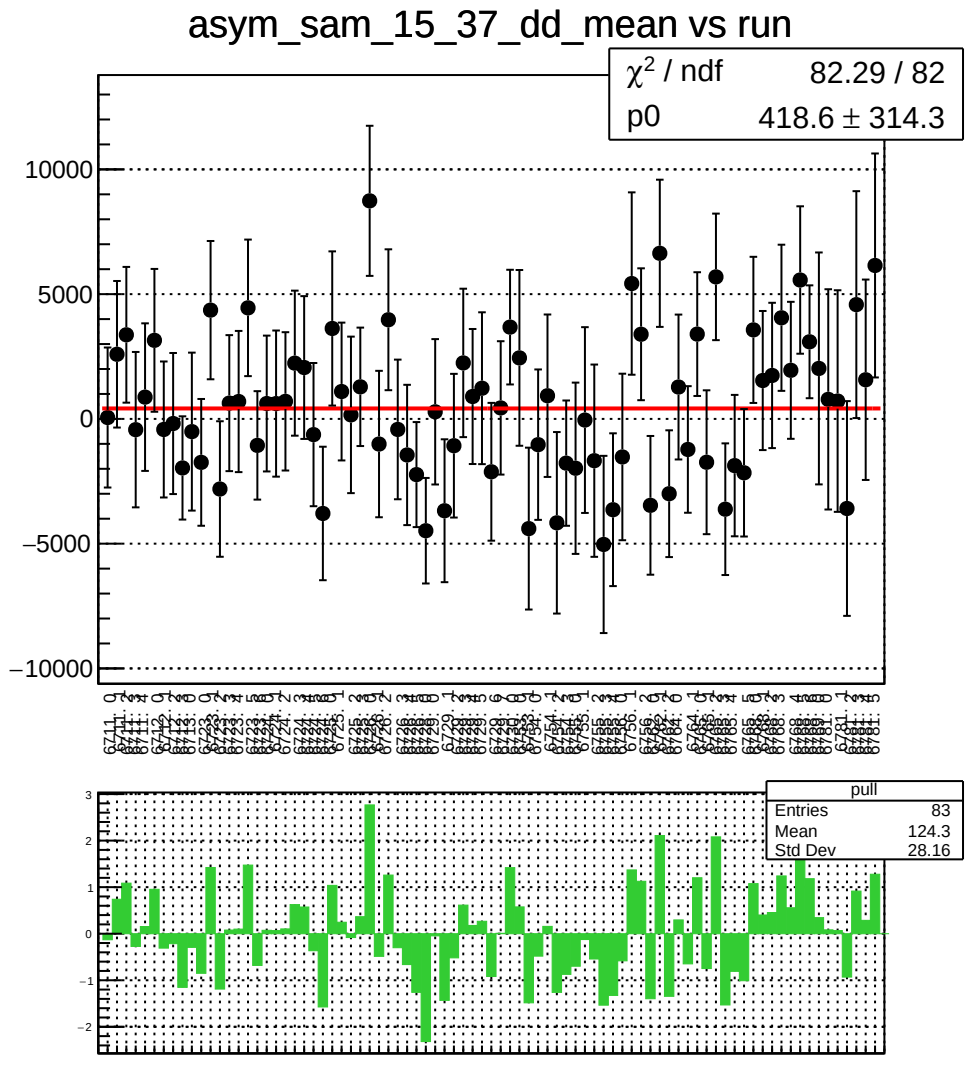
reg_asym_sam_15_37_dd_rms vs run

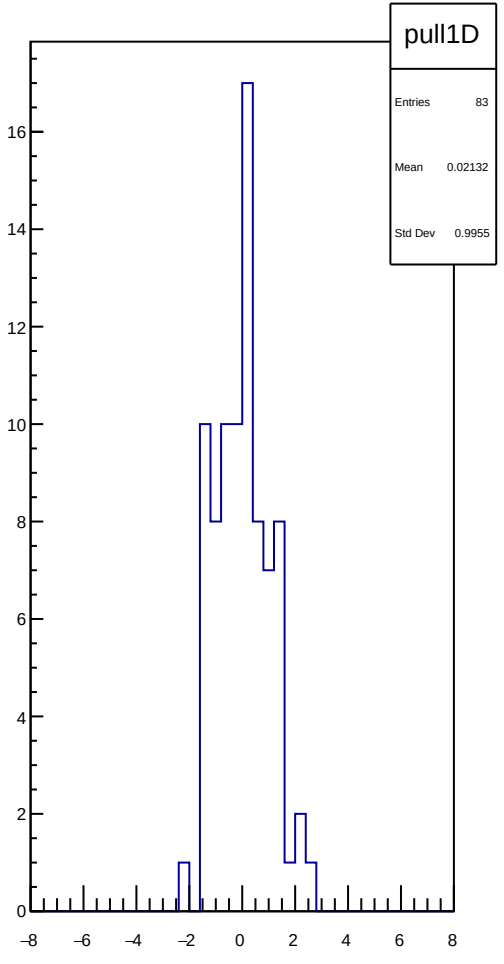


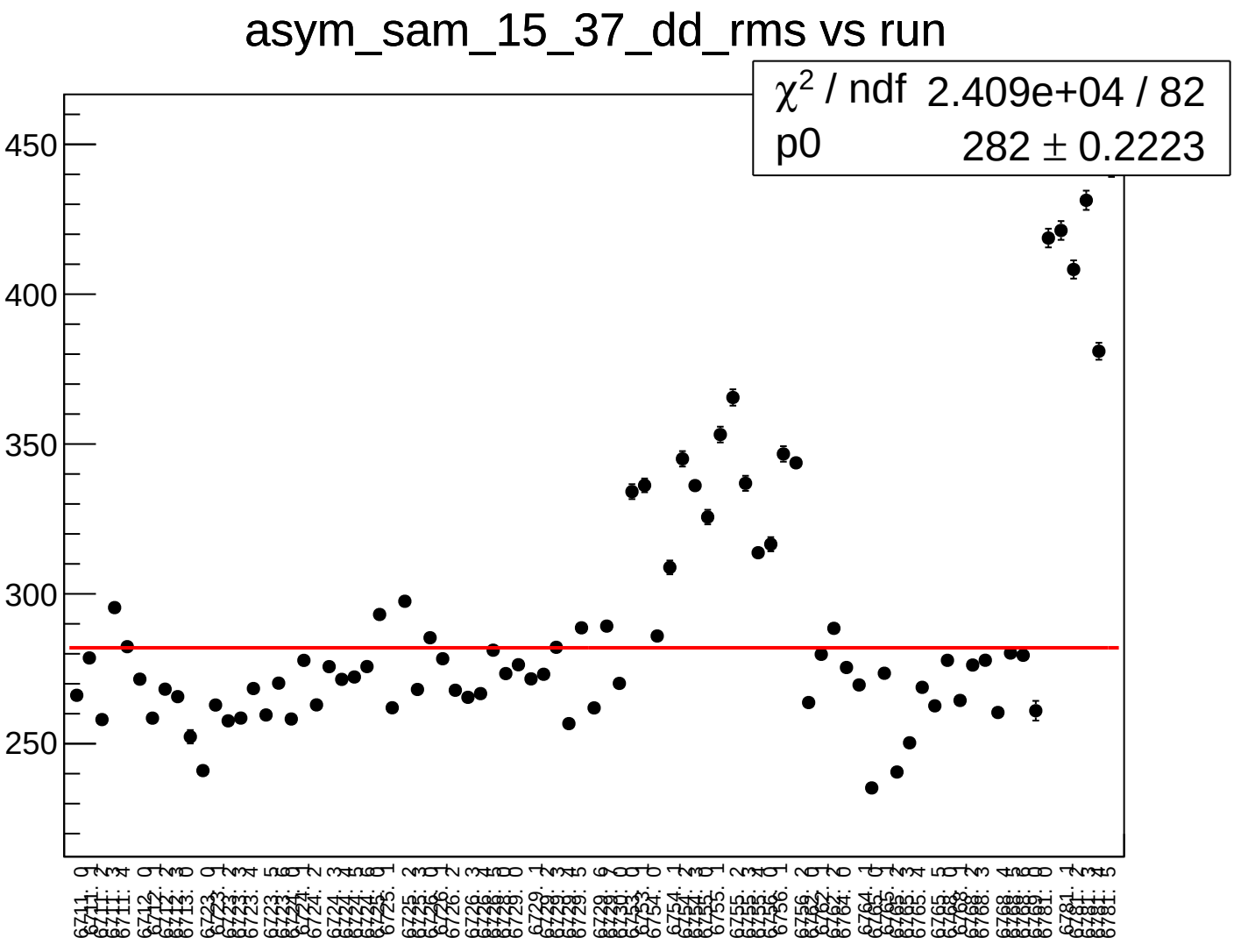

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 78.57 / 82
p0 −308.2 ± 311.3
pull
Entries 83
Mean 109.2
Std Dev 33.03

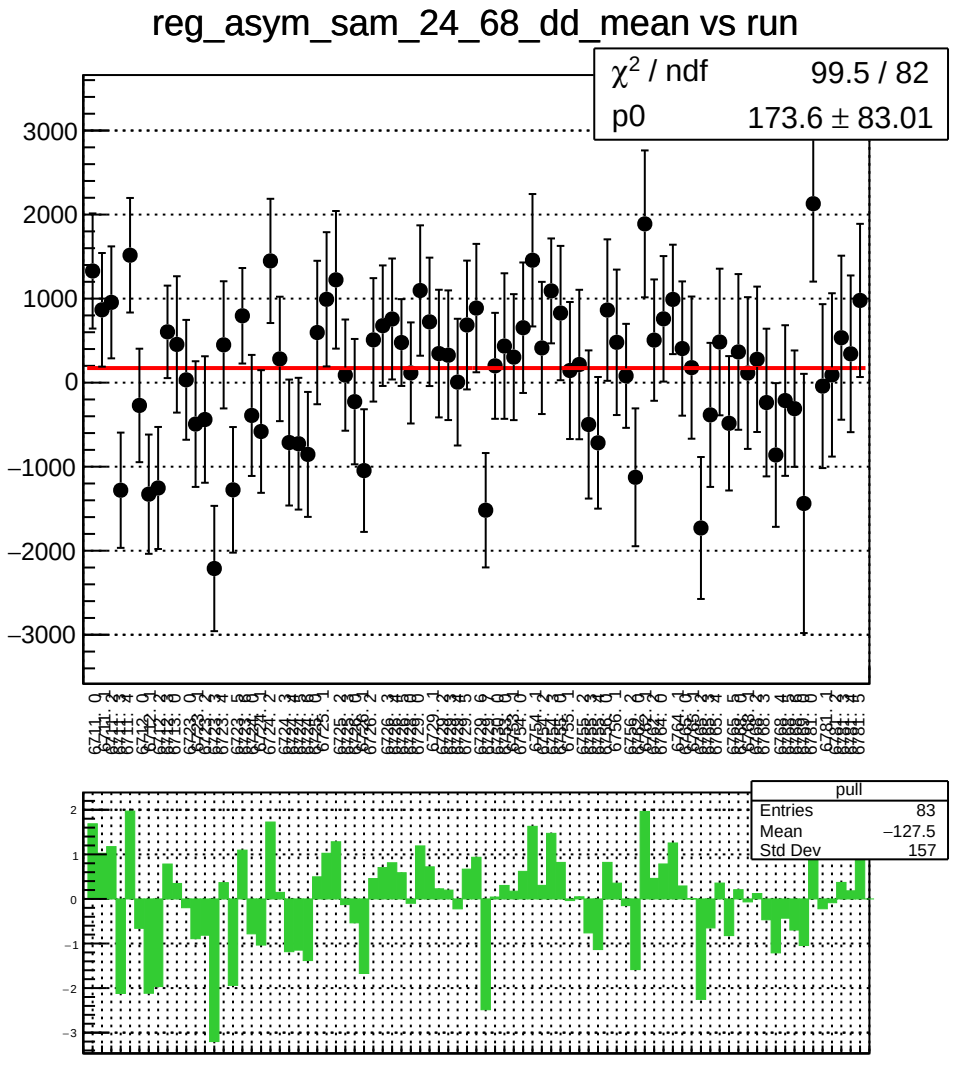

pull1D
Entries 83
Mean −0.02254
Std Dev 0.9727

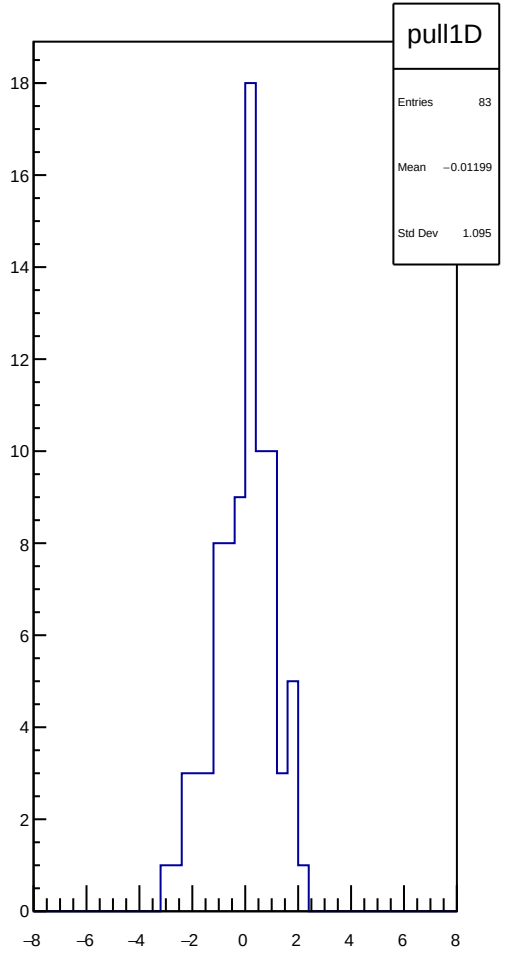

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 2.442e+04 / 82
p0 279.2 ± 0.2201
450
400
350
300
250

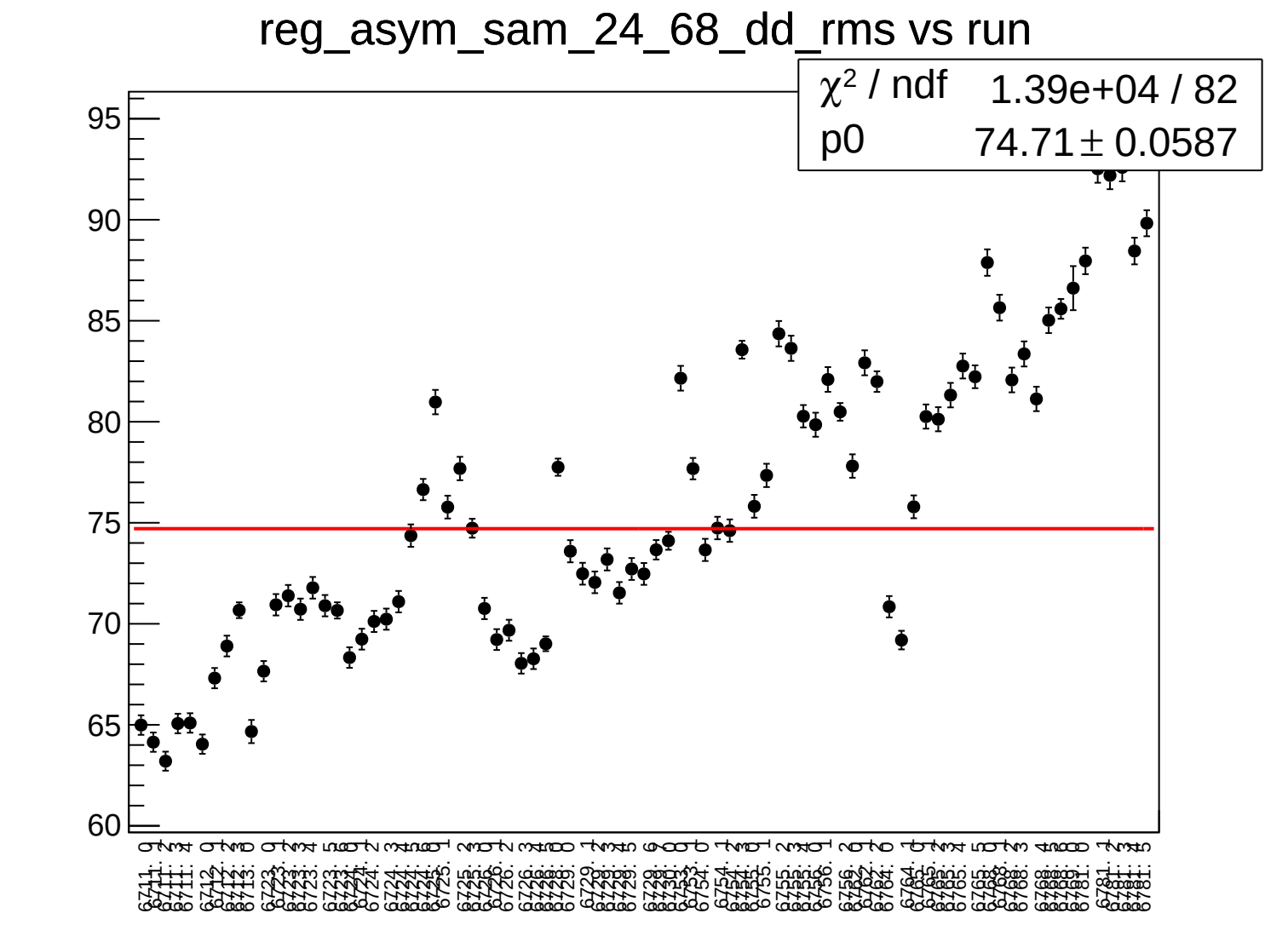

asym_sam_15_37_dd_mean vs run
χ² / ndf 82.29 / 82
p0 418.6 ± 314.3
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 124.3
Std Dev 28.16
3
2
1
0
−1
−2

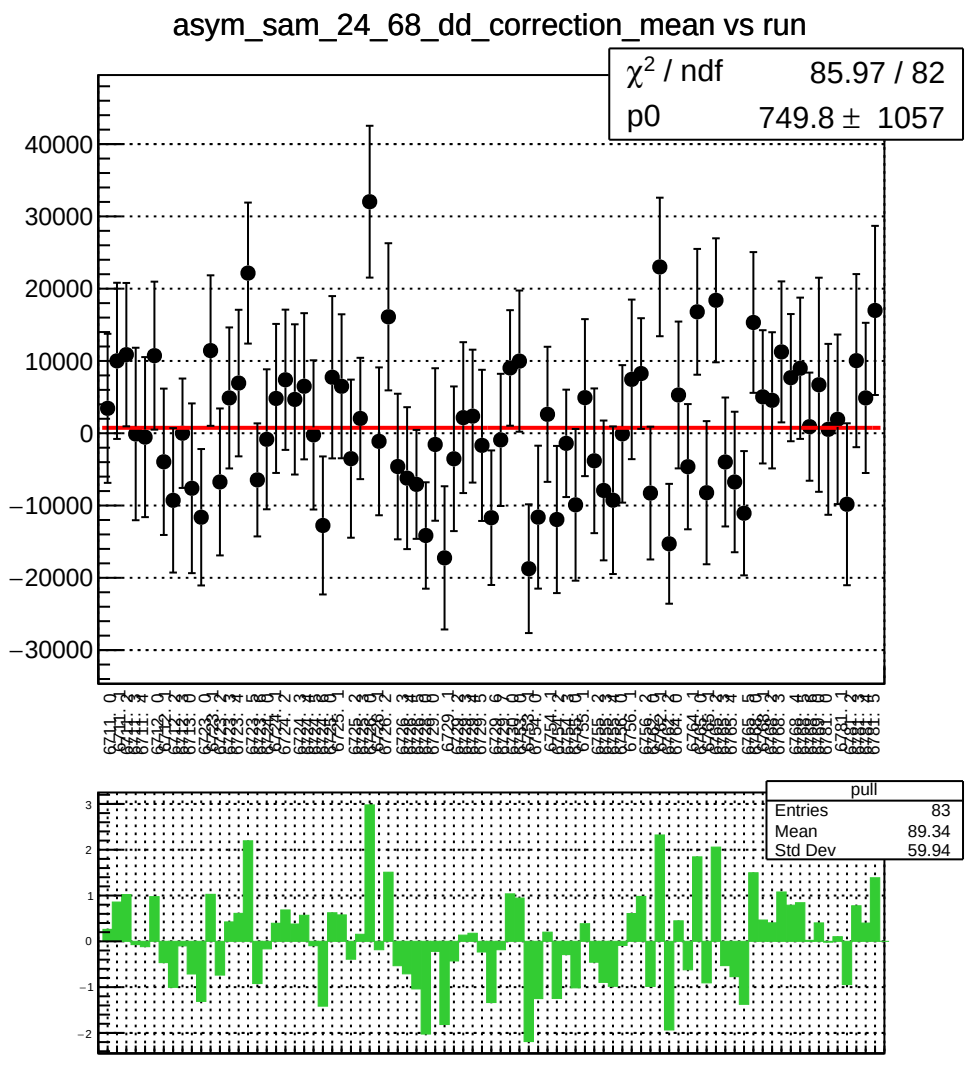

pull1D
Entries 83
Mean 0.02132
Std Dev 0.9955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

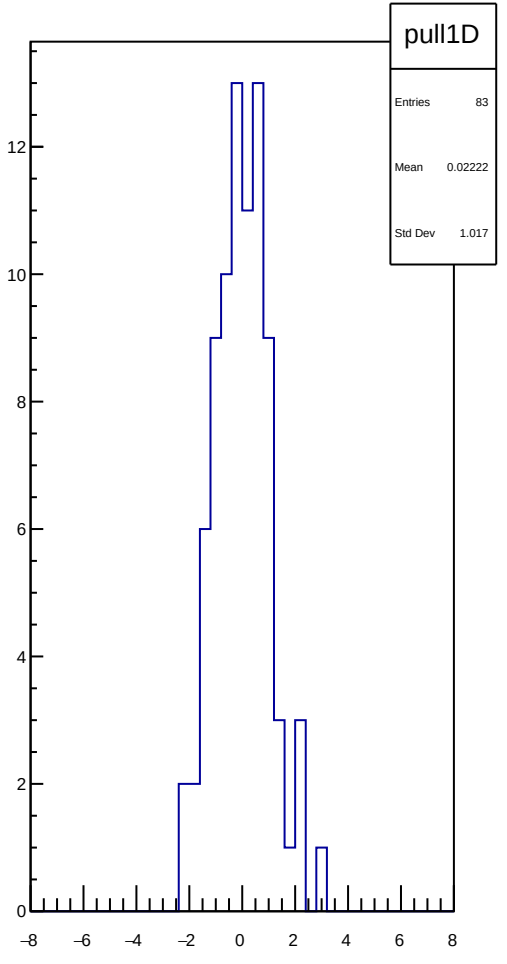

asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.409e+04 / 82
p0 282 ± 0.2223
450
400
350
300
250

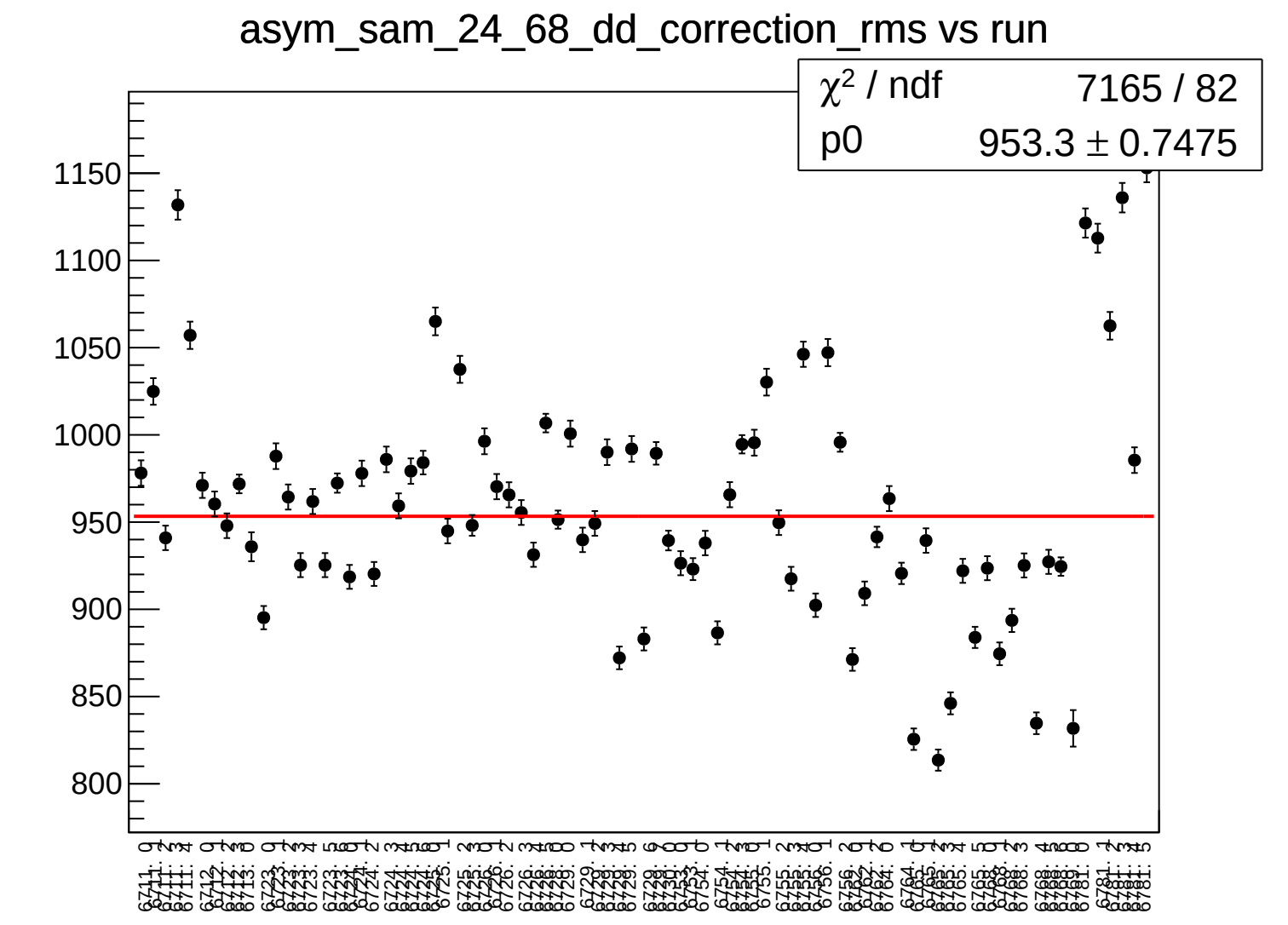

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 99.5 / 82
p0 173.6 ± 83.01
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 83
Mean −127.5
Std Dev 157
2
1
0
−1
−2
−3

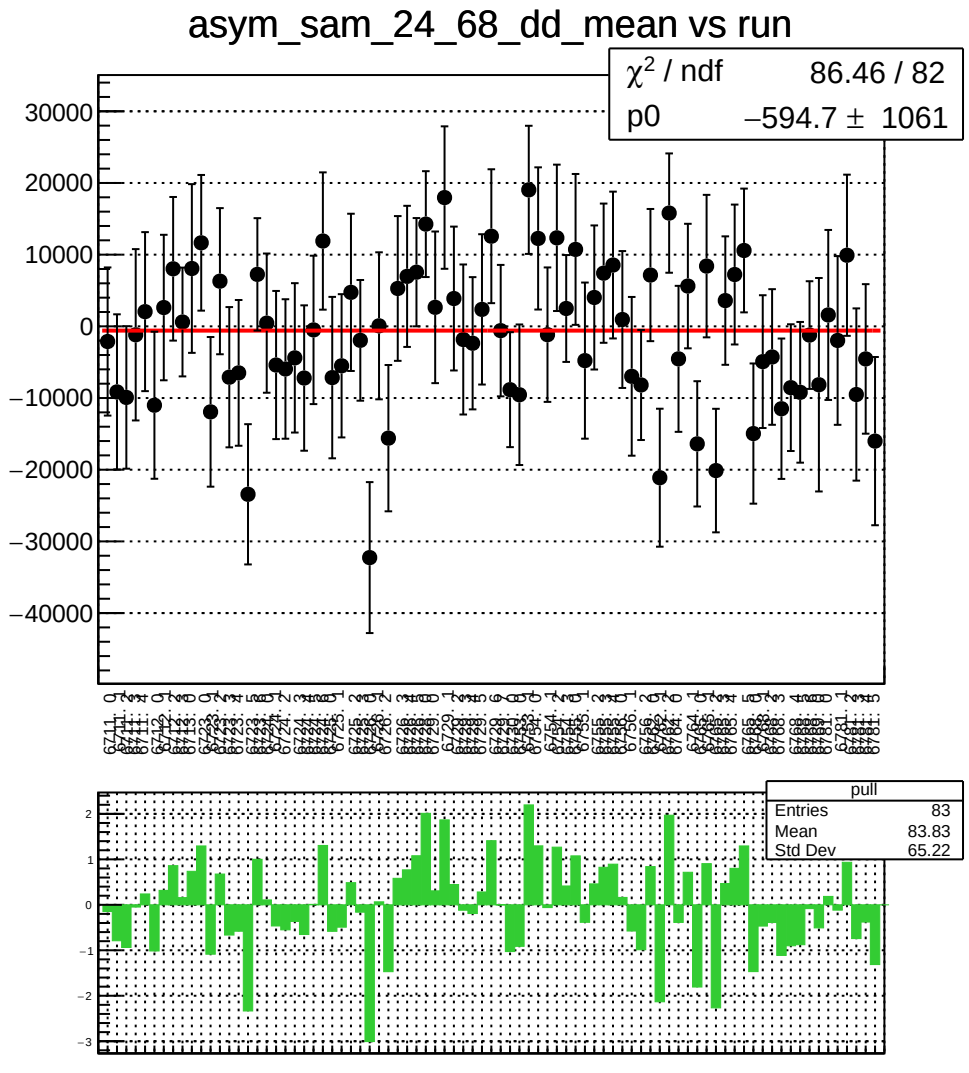

pull1D
Entries 83
Mean −0.01199
Std Dev 1.095
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

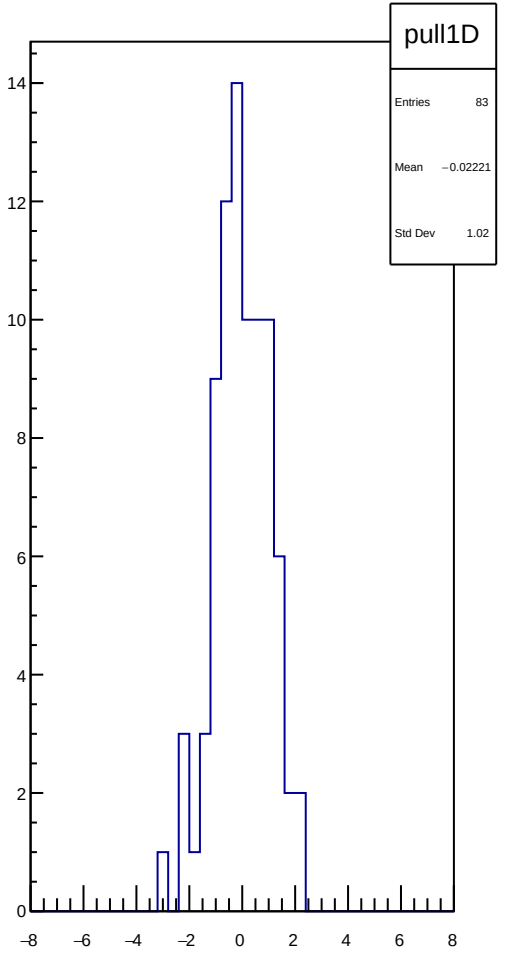

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.39e+04 / 82
p0 74.71 ± 0.0587
95
90
85
80
75
70
65
60

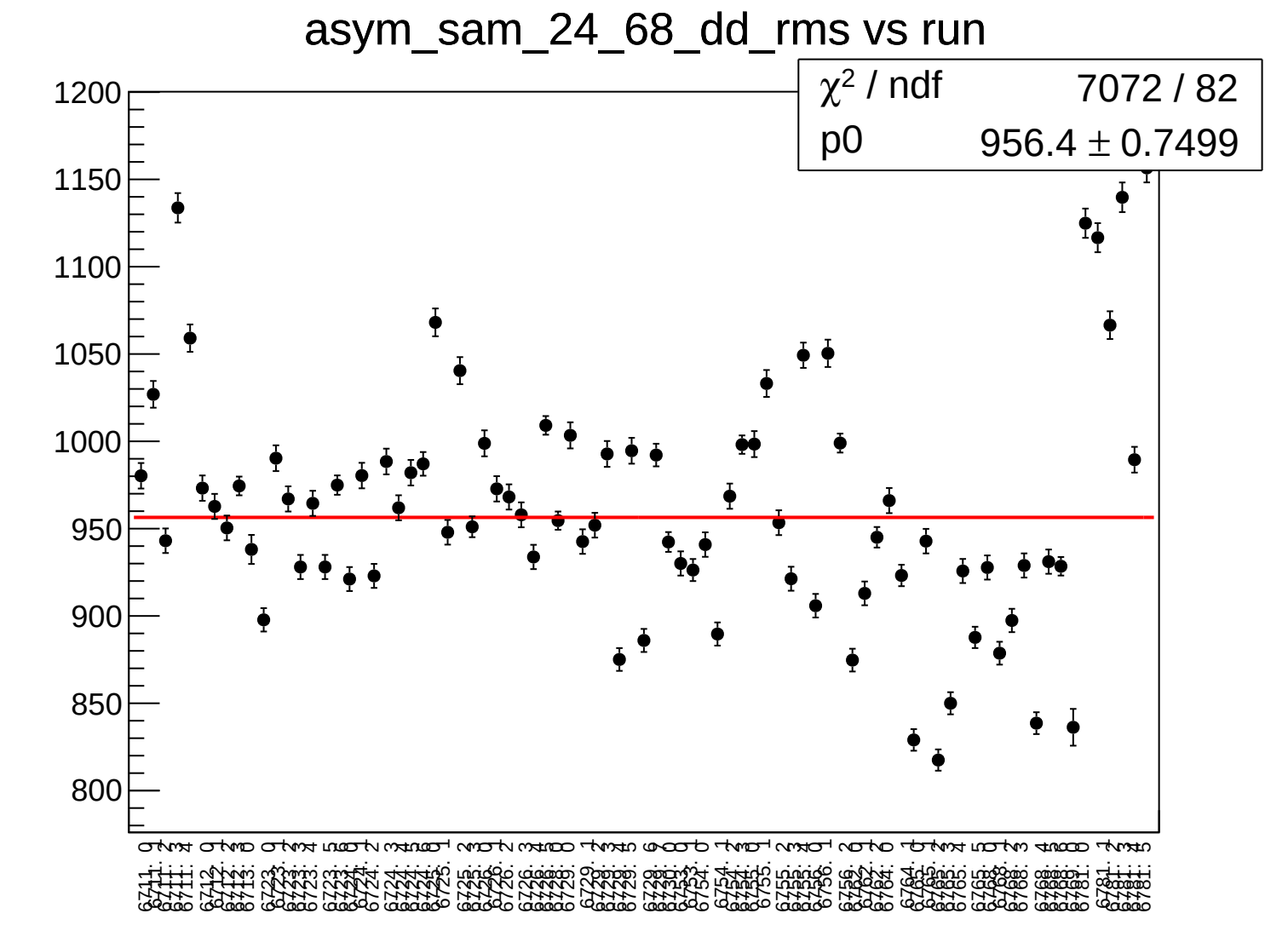

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 85.97 / 82
p0 749.8 ± 1057
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean 89.34
Std Dev 59.94
3
2
1
0
−1
−2

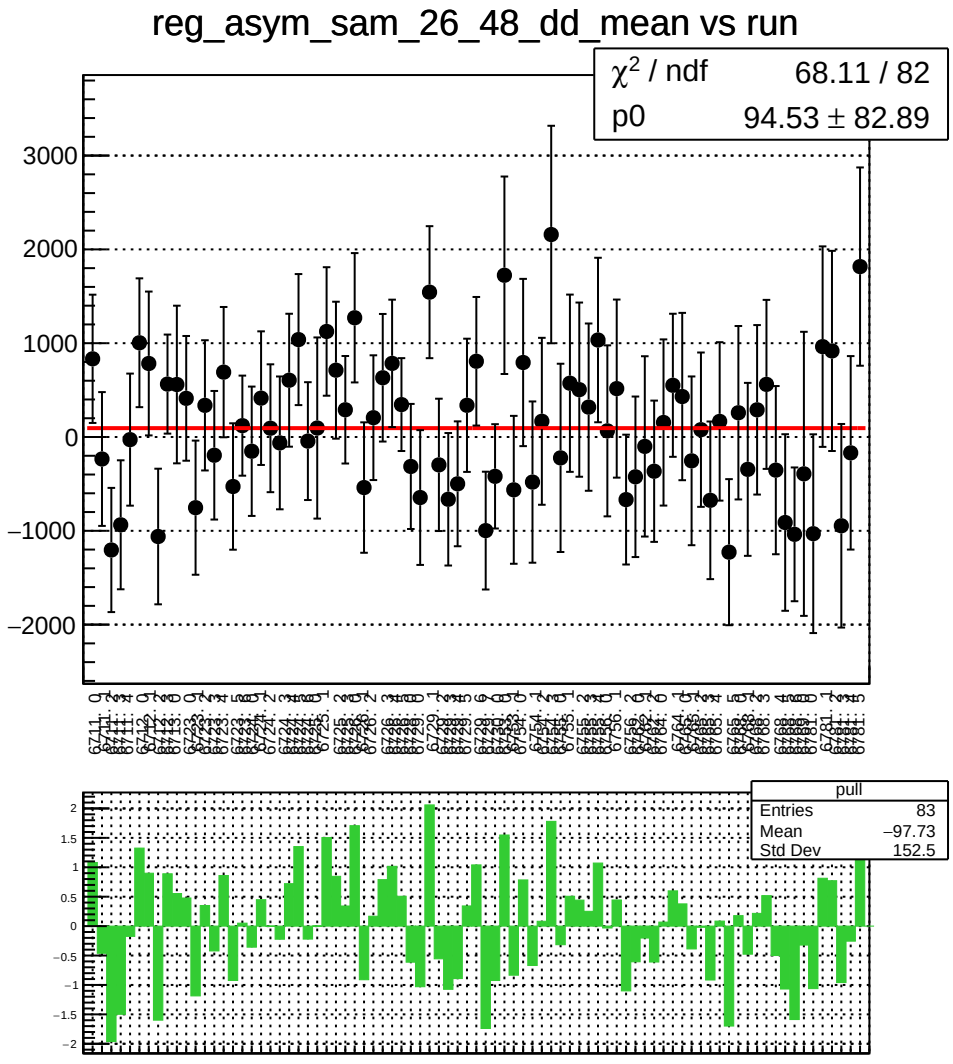

pull1D
Entries 83
Mean 0.02222
Std Dev 1.017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

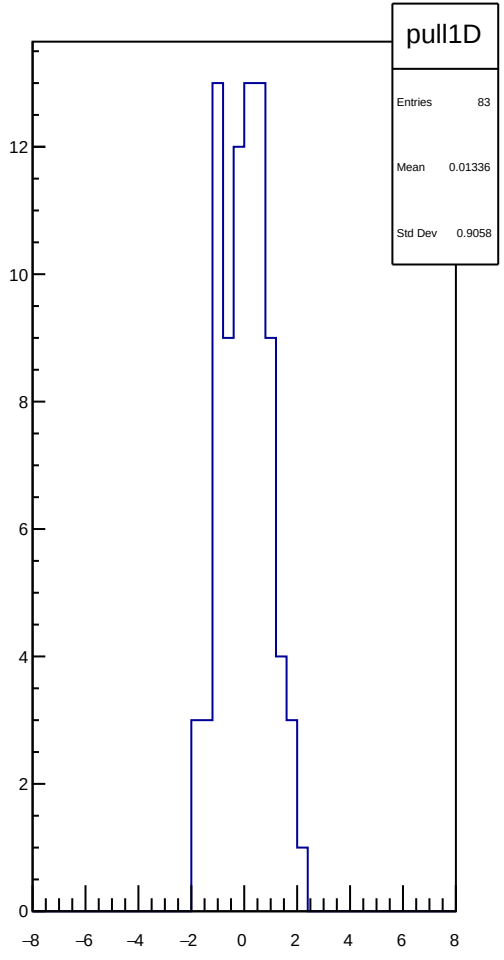

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 7165 / 82
p0 953.3 ± 0.7475
1150
1100
1050
1000
950
900
850
800

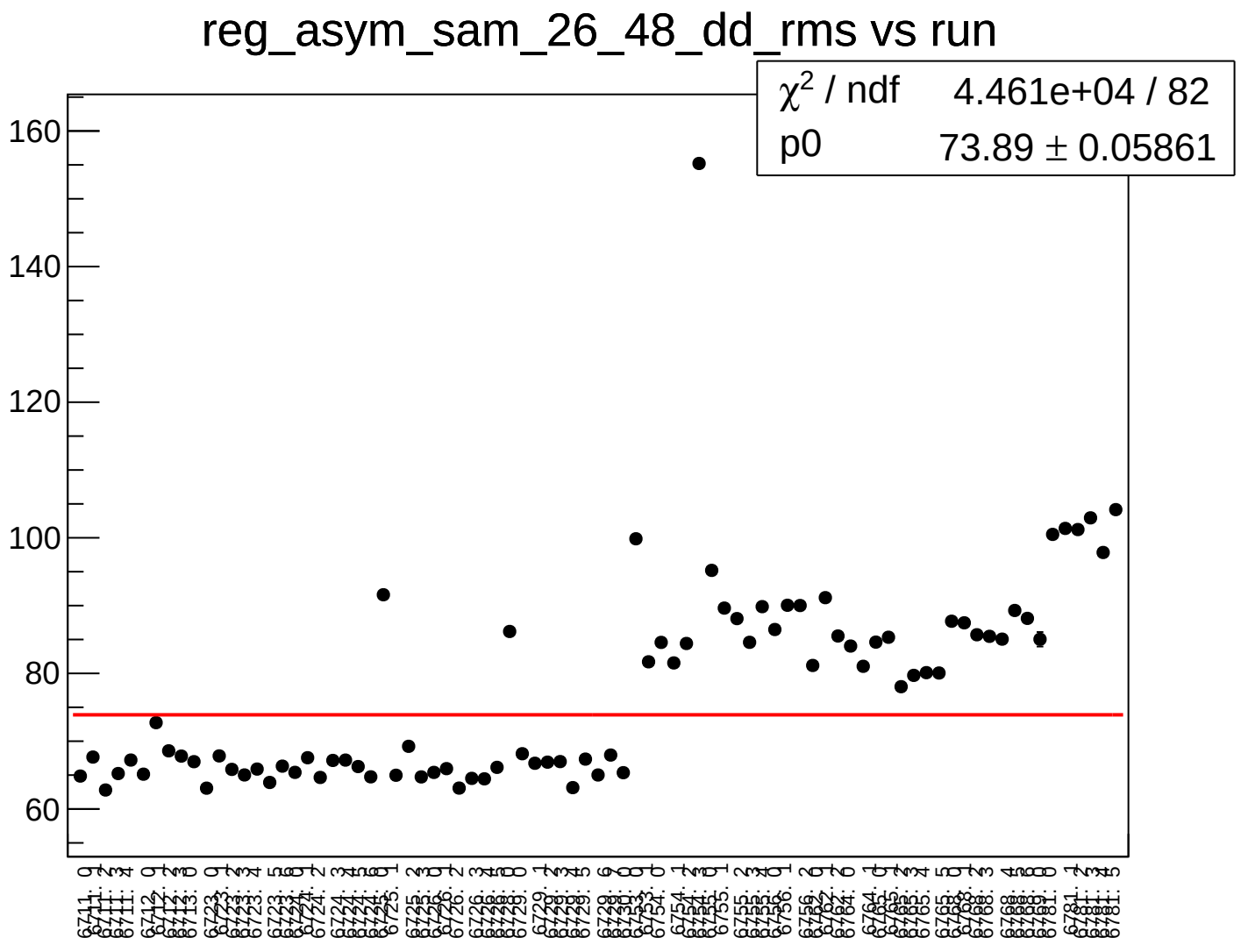

asym_sam_24_68_dd_mean vs run
χ² / ndf 86.46 / 82
p0 −594.7 ± 1061
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 83
Mean 83.83
Std Dev 65.22
2
1
0
−1
−2
−3

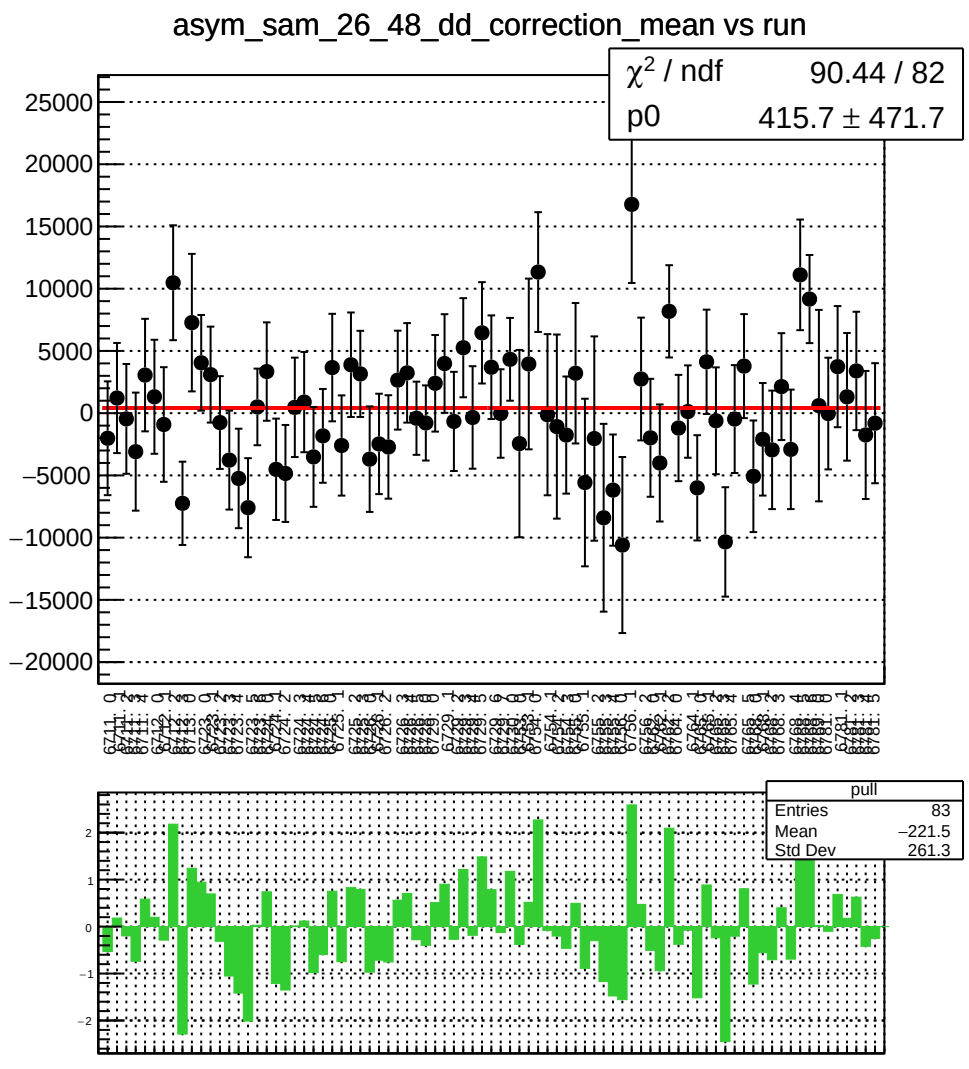

pull1D
Entries 83
Mean −0.02221
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

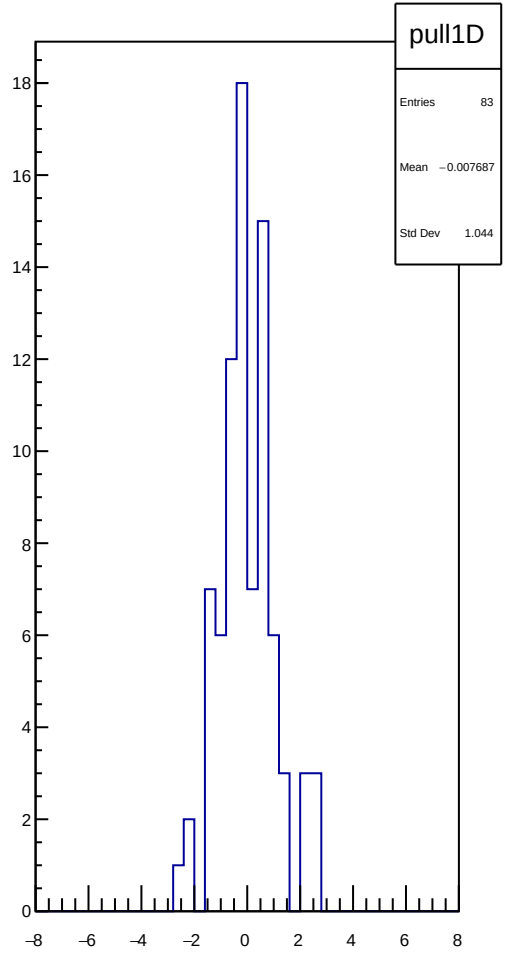

asym_sam_24_68_dd_rms vs run
χ² / ndf 7072 / 82
p0 956.4 ± 0.7499
1200
1150
1100
1050
1000
950
900
850
800

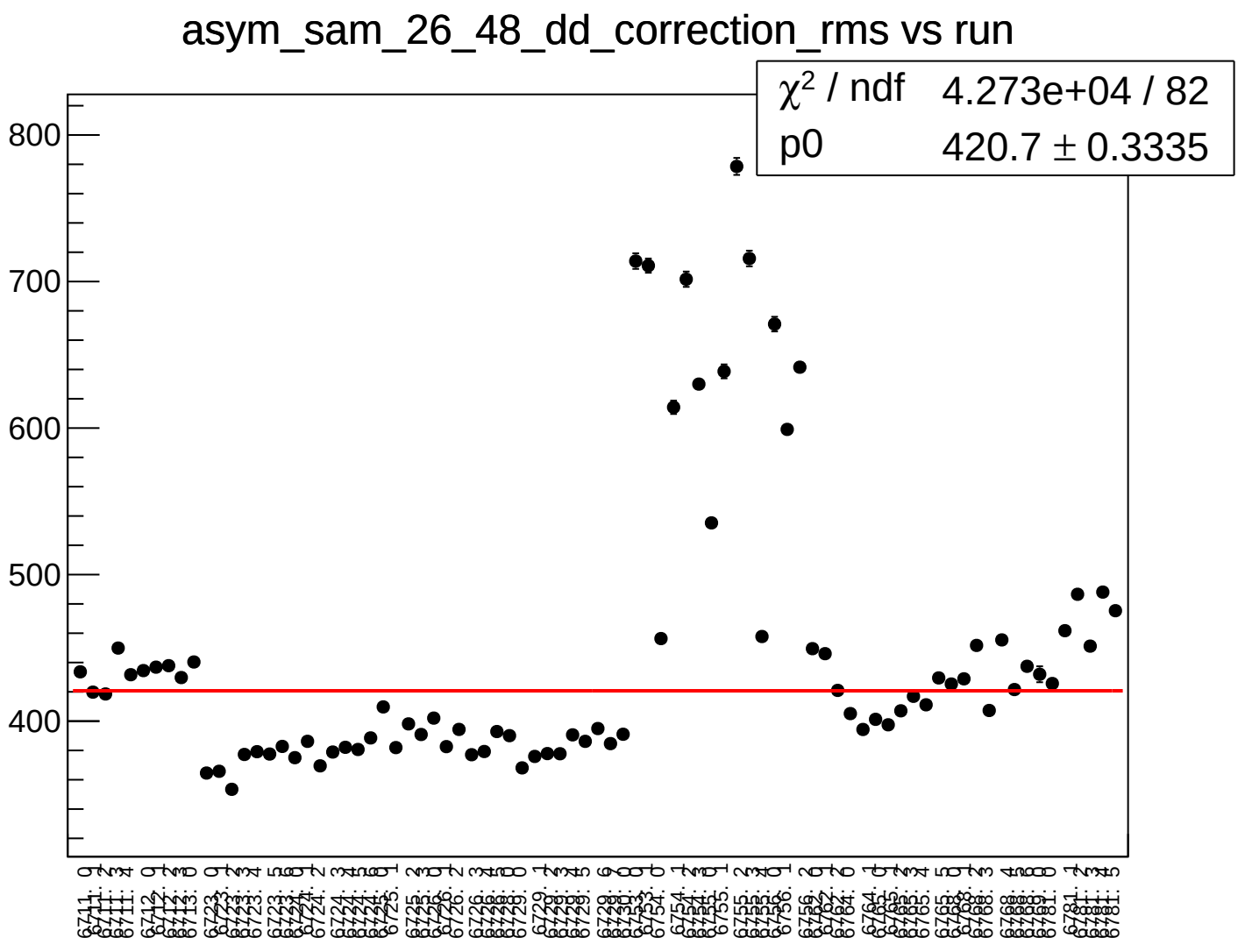

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 68.11 / 82
p0 94.53 ± 82.89
3000
2000
1000
0
−1000
−2000
pull
Entries 83
Mean −97.73
Std Dev 152.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

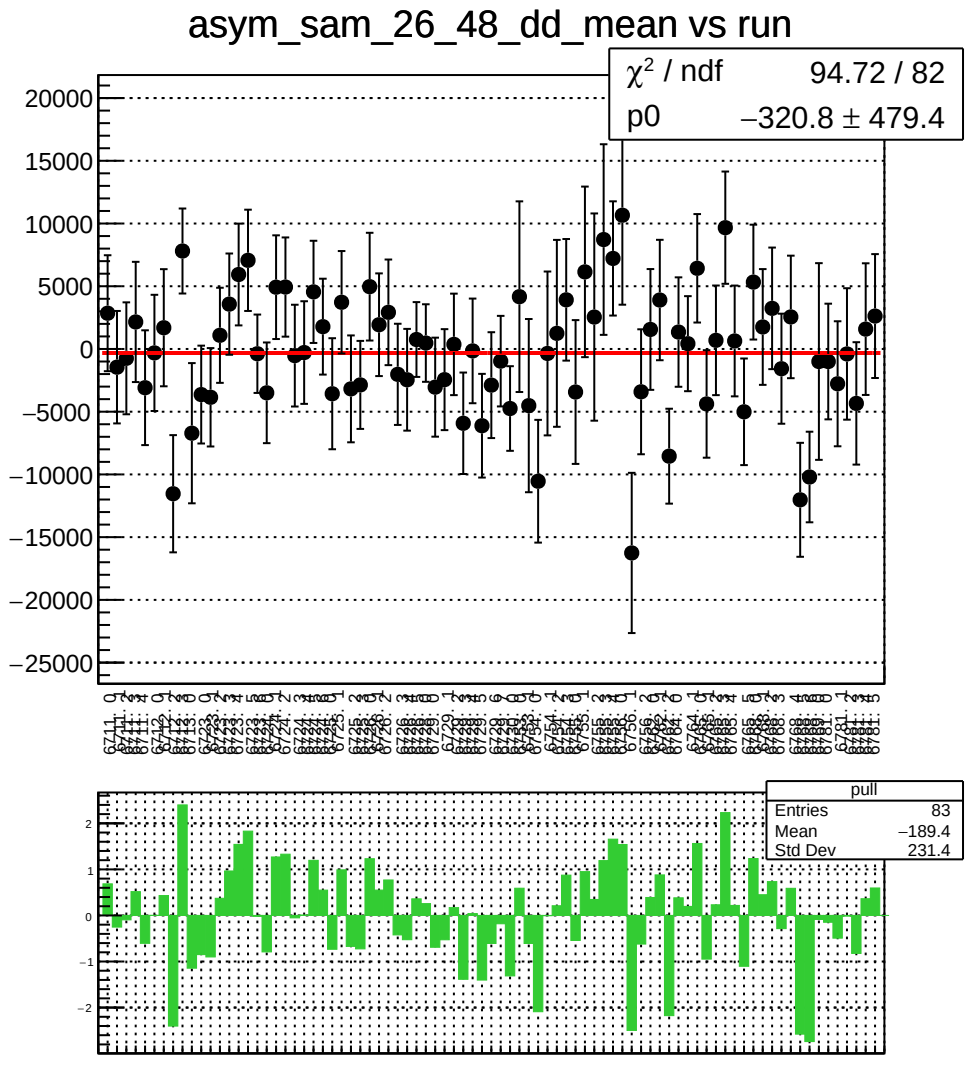

pull1D
Entries 83
Mean 0.01336
Std Dev 0.9058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

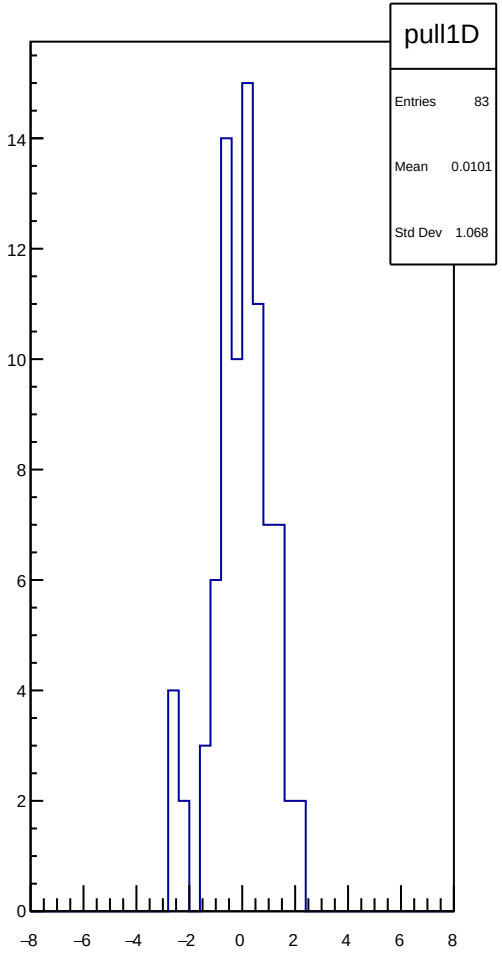

reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 4.461e+04 / 82
p0 73.89 ± 0.05861
160
140
120
100
80
60

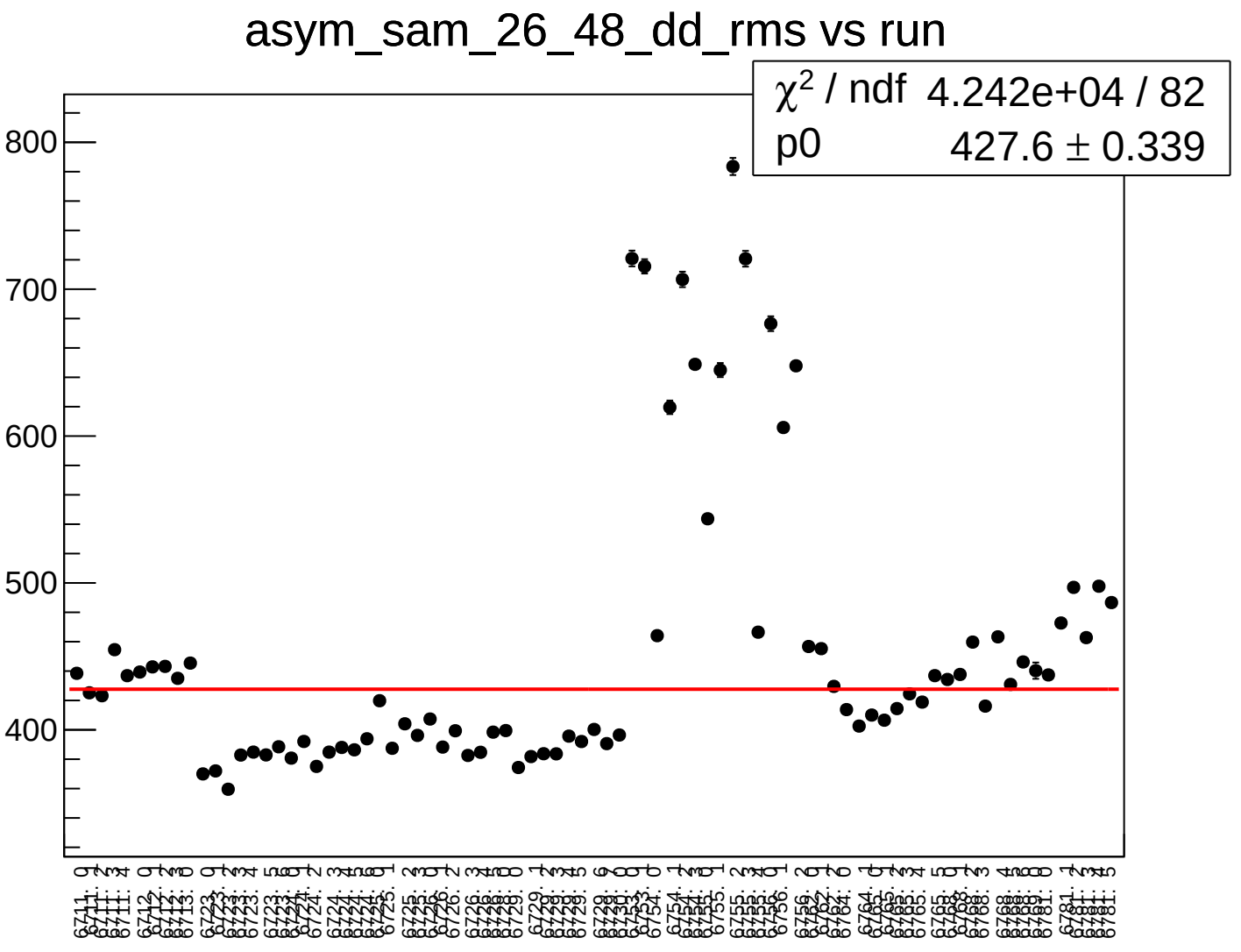

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 90.44 / 82
p0 415.7 ± 471.7
pull
Entries 83
Mean −221.5
Std Dev 261.3

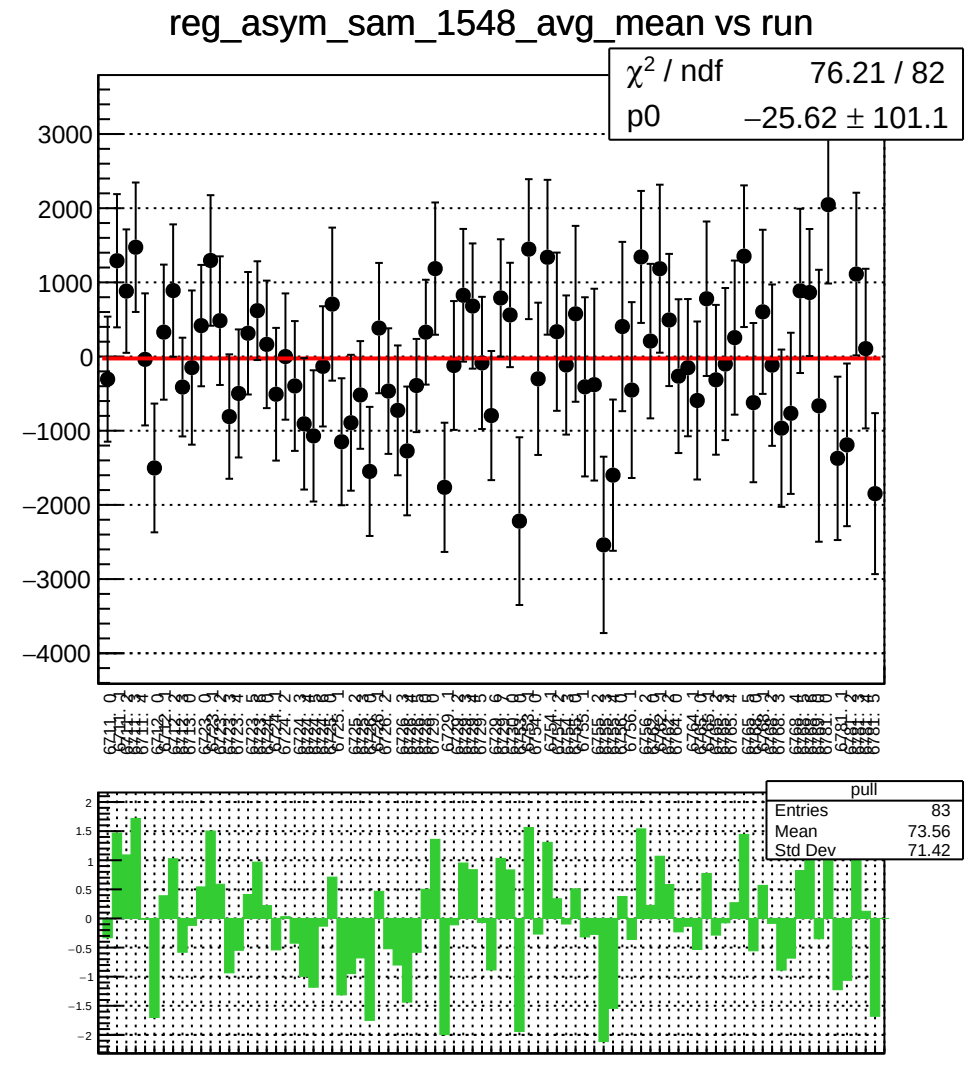

pull1D
Entries 83
Mean −0.007687
Std Dev 1.044

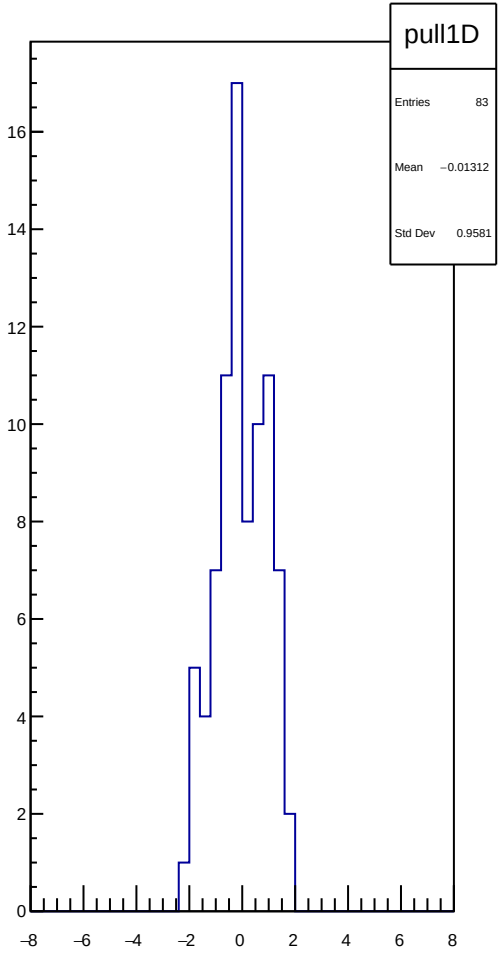

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 4.273e+04 / 82
p0 420.7 ± 0.3335
800
700
600
500
400

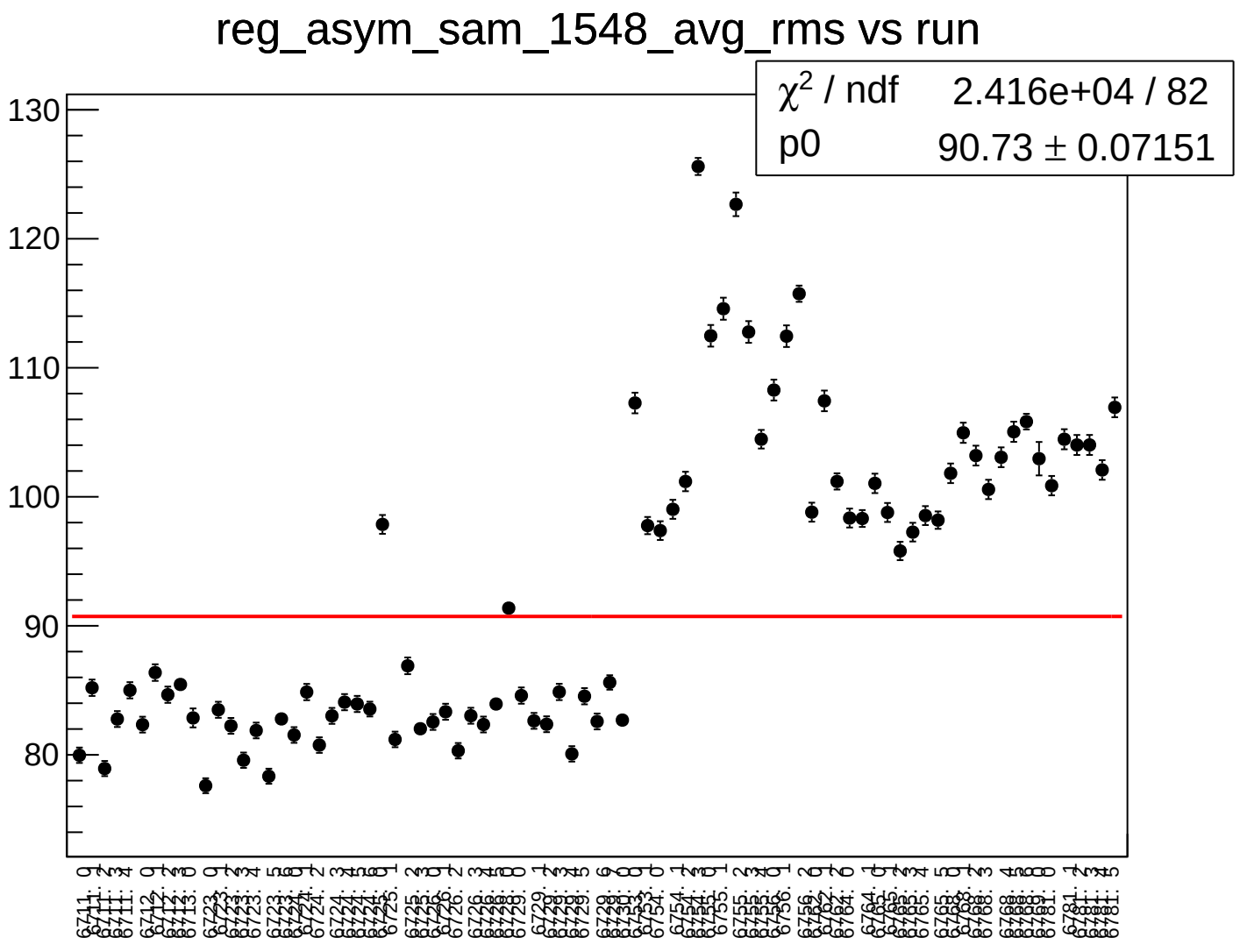

asym_sam_26_48_dd_mean vs run
χ² / ndf 94.72 / 82
p0 −320.8 ± 479.4
pull
Entries 83
Mean −189.4
Std Dev 231.4

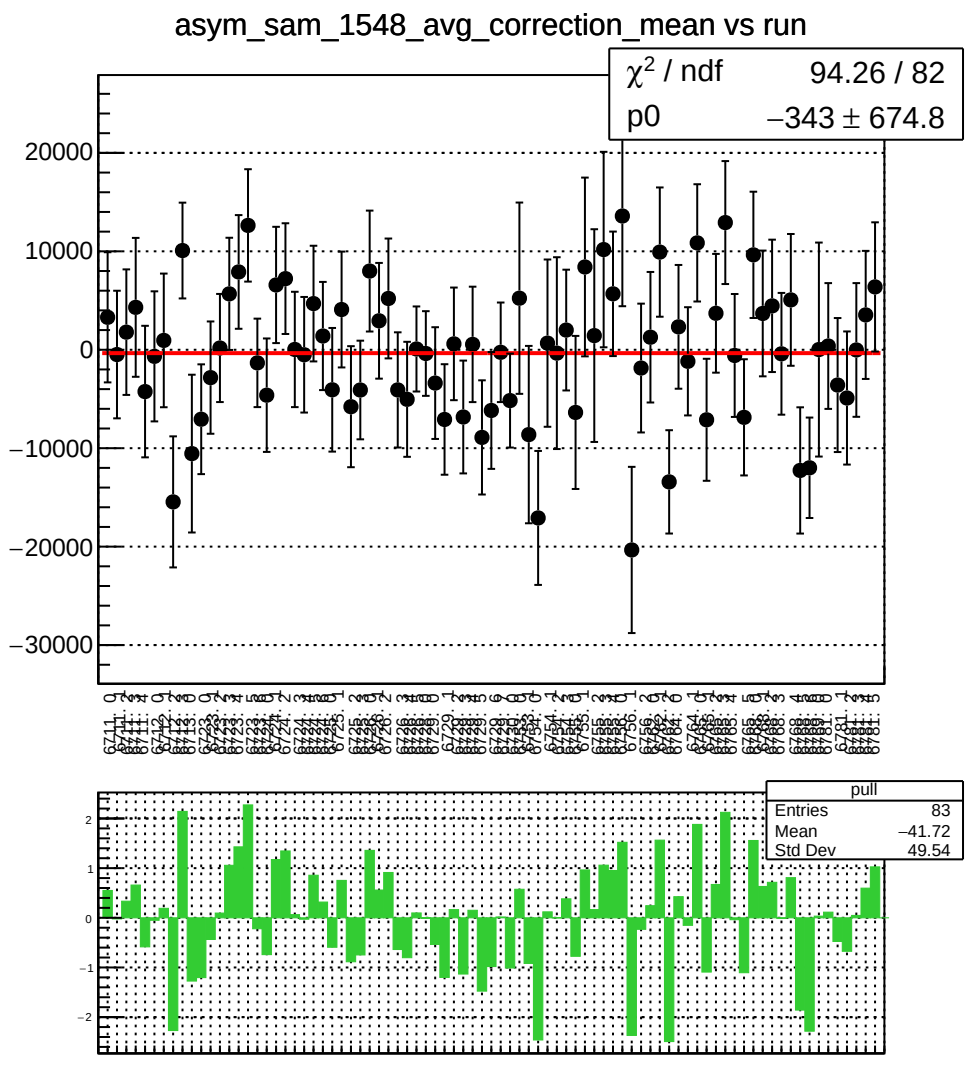

pull1D
Entries 83
Mean 0.0101
Std Dev 1.068

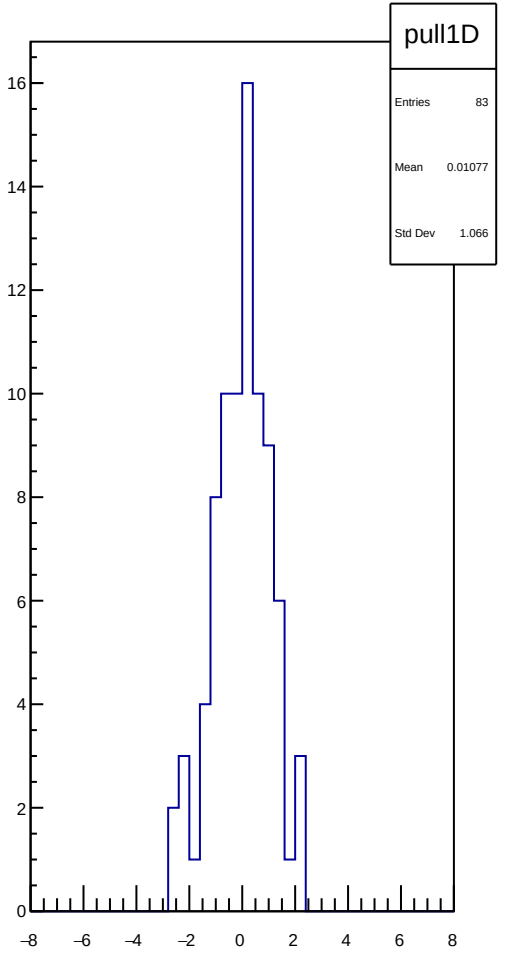

asym_sam_26_48_dd_rms vs run
χ^2 / ndf 4.242e+04 / 82
p0 427.6 ± 0.339
800
700
600
500
400

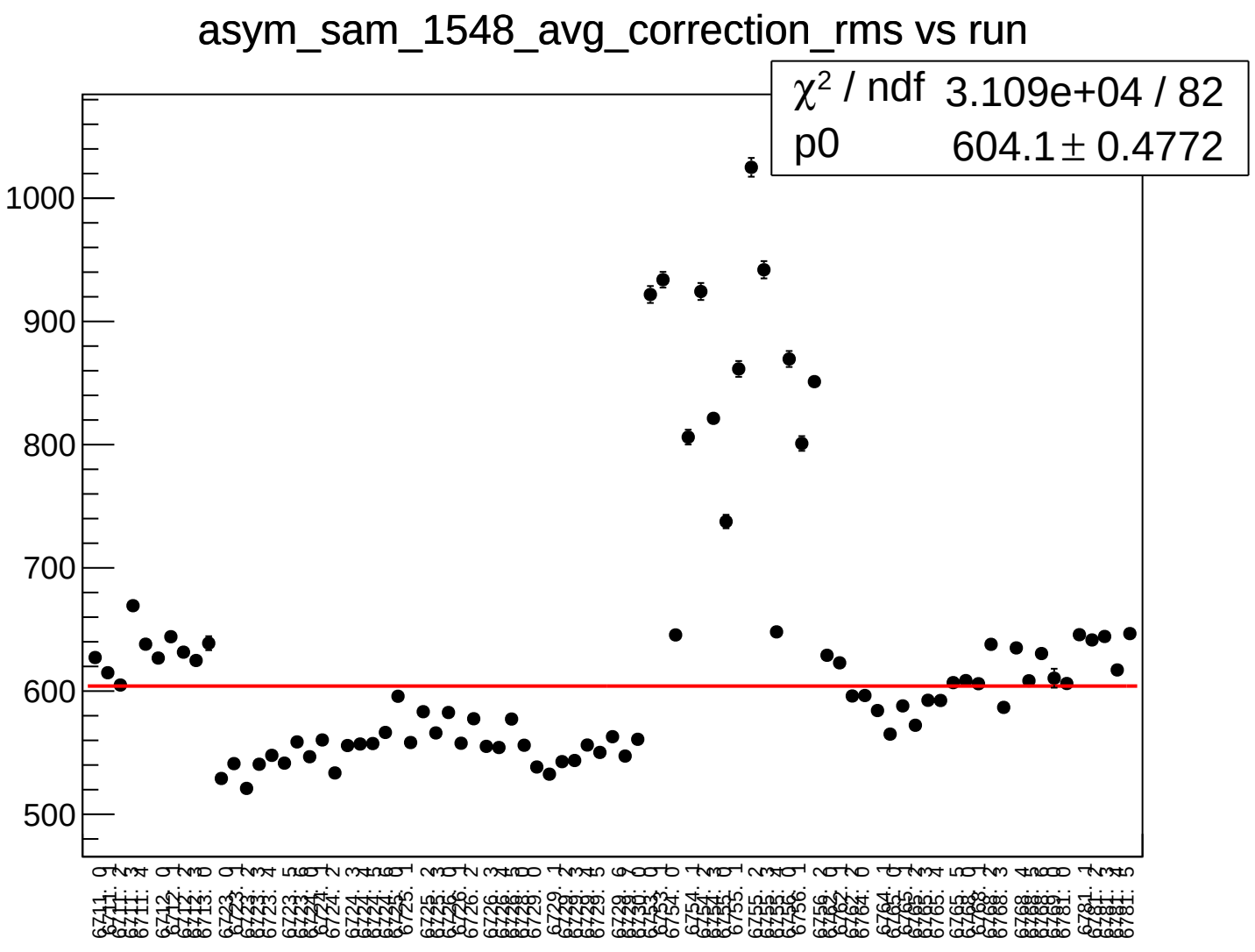

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 76.21 / 82
p0 −25.62 ± 101.1
pull
Entries 83
Mean 73.56
Std Dev 71.42

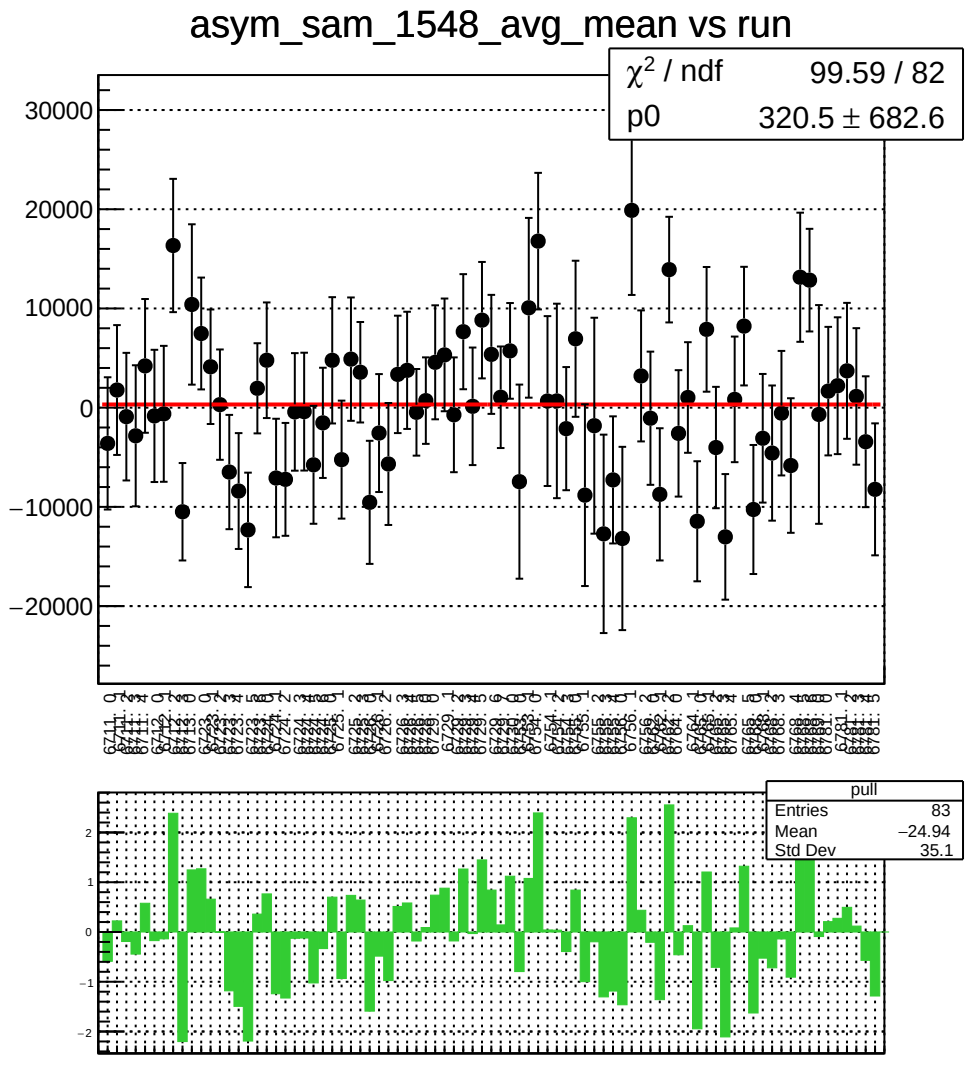

pull1D
Entries 83
Mean −0.01312
Std Dev 0.9581

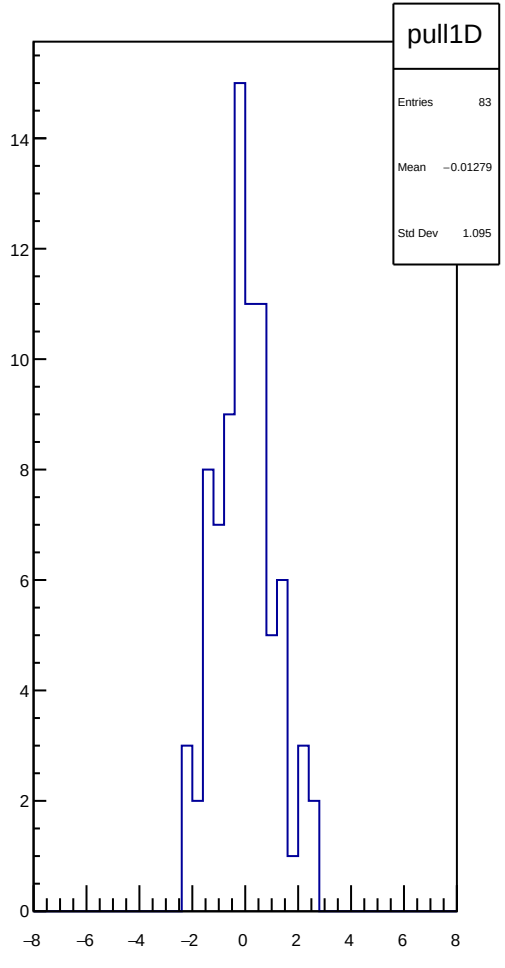

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 2.416e+04 / 82
p0 90.73 ± 0.07151
130
120
110
100
90
80

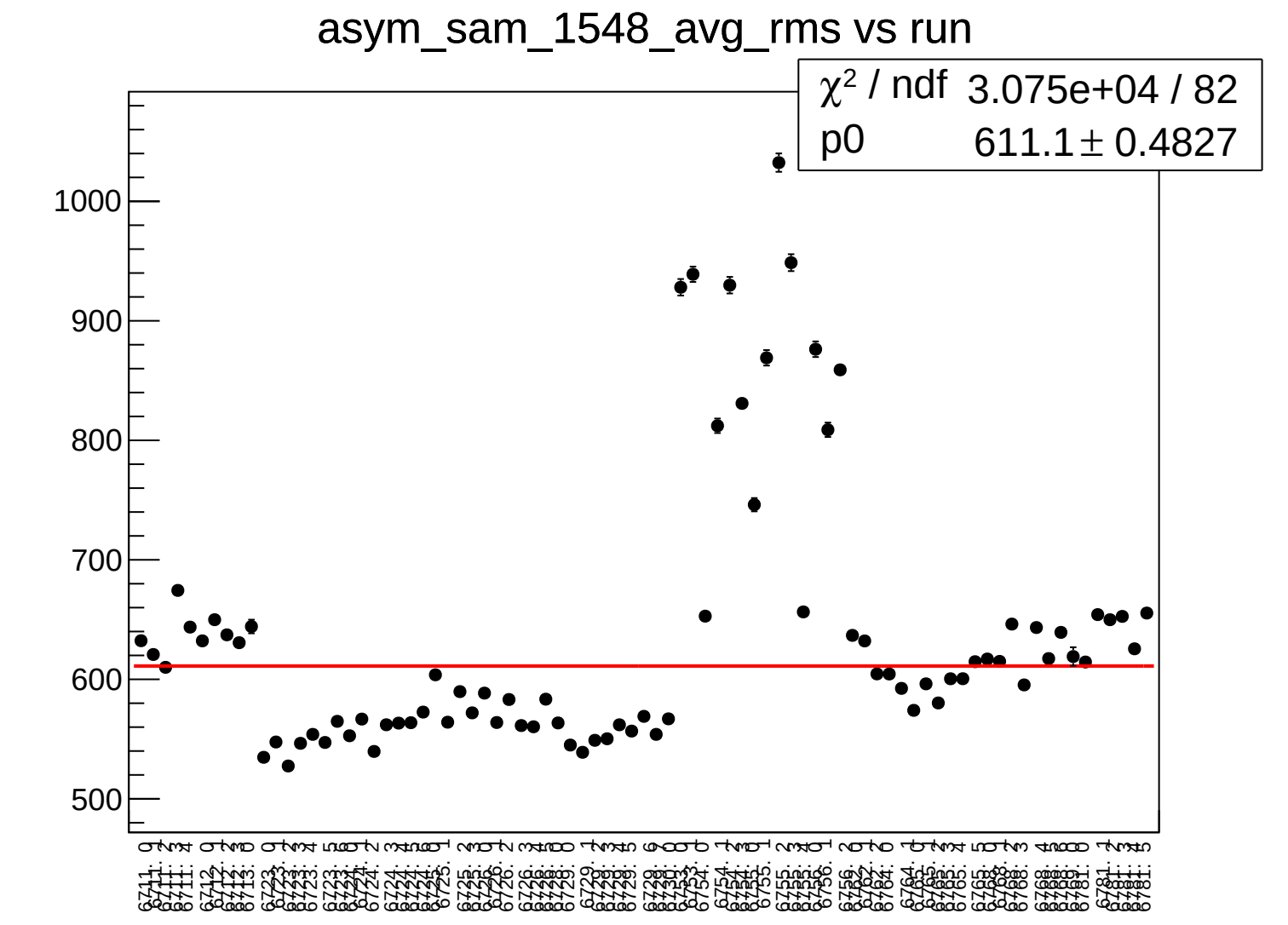

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 94.26 / 82
p0 −343 ± 674.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean −41.72
Std Dev 49.54
2
1
0
−1
−2

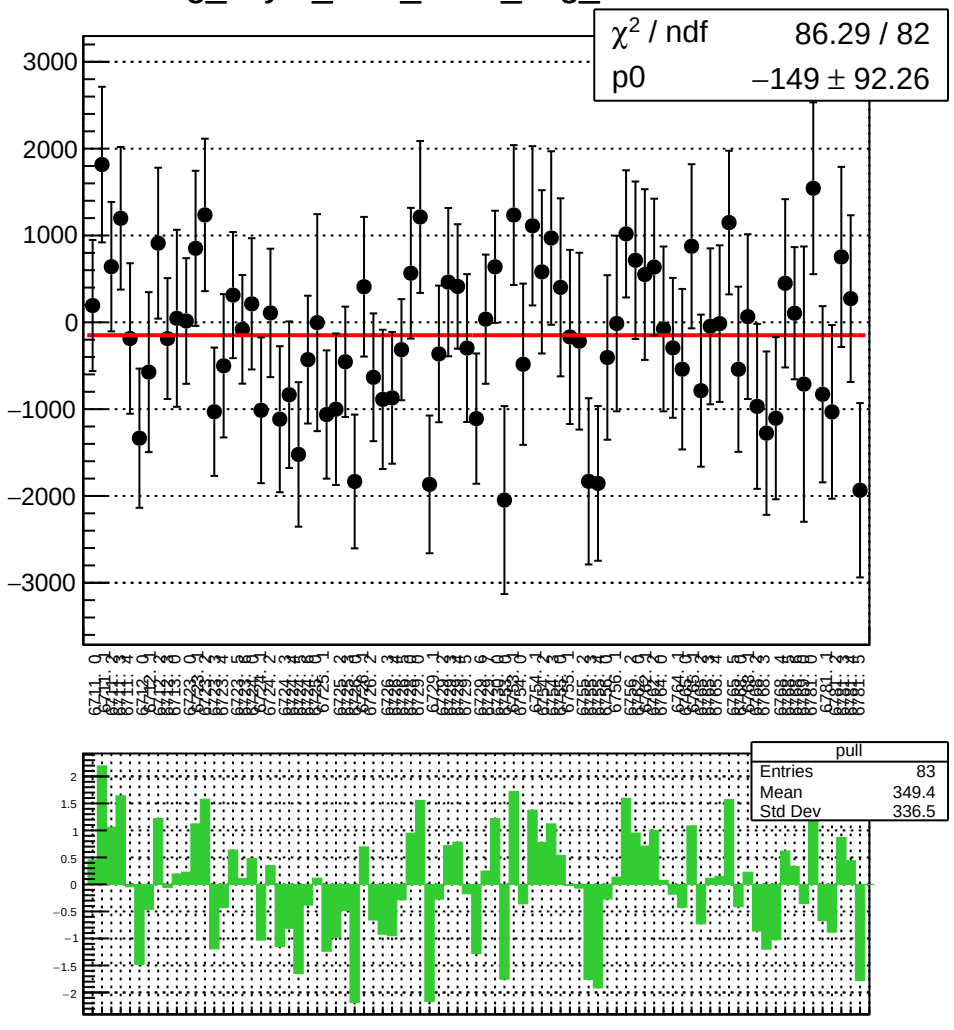

pull1D
Entries 83
Mean 0.01077
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

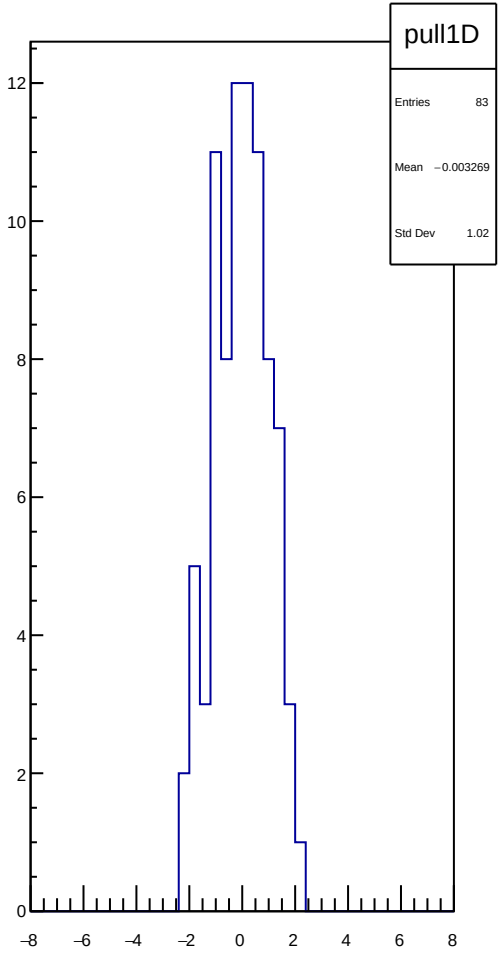

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 3.109e+04 / 82
p0 604.1 ± 0.4772
1000
900
800
700
600
500

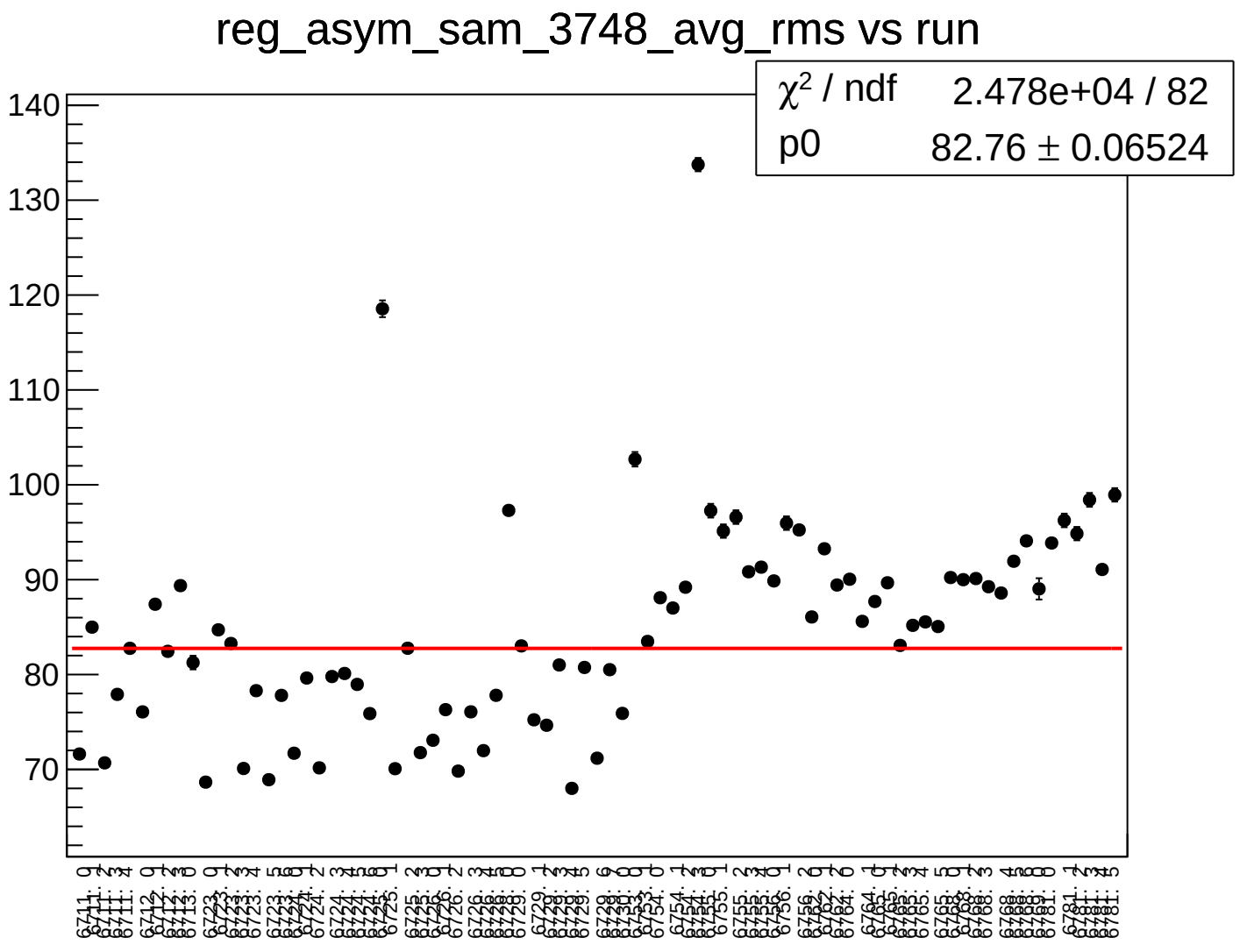

asym_sam_1548_avg_mean vs run
χ² / ndf 99.59 / 82
p0 320.5 ± 682.6
pull
Entries 83
Mean −24.94
Std Dev 35.1

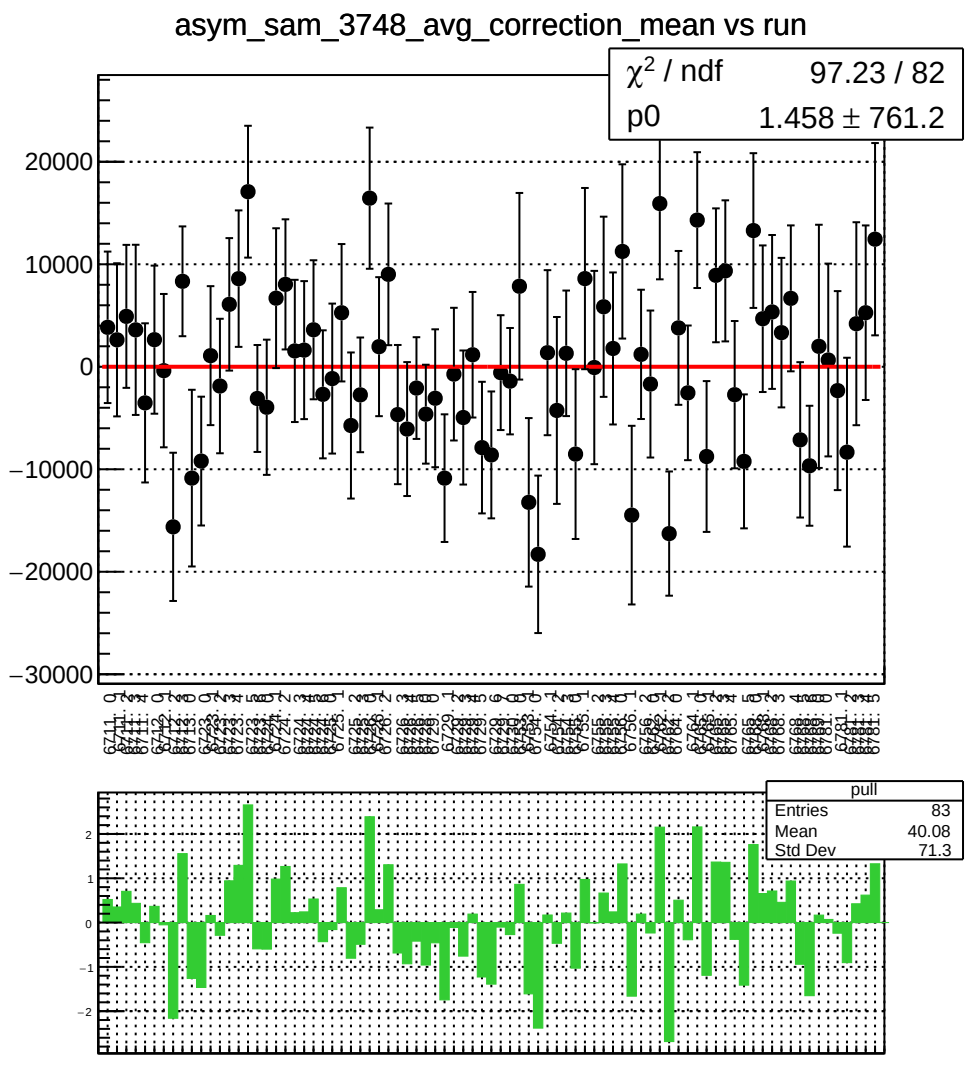

pull1D
Entries 83
Mean −0.01279
Std Dev 1.095

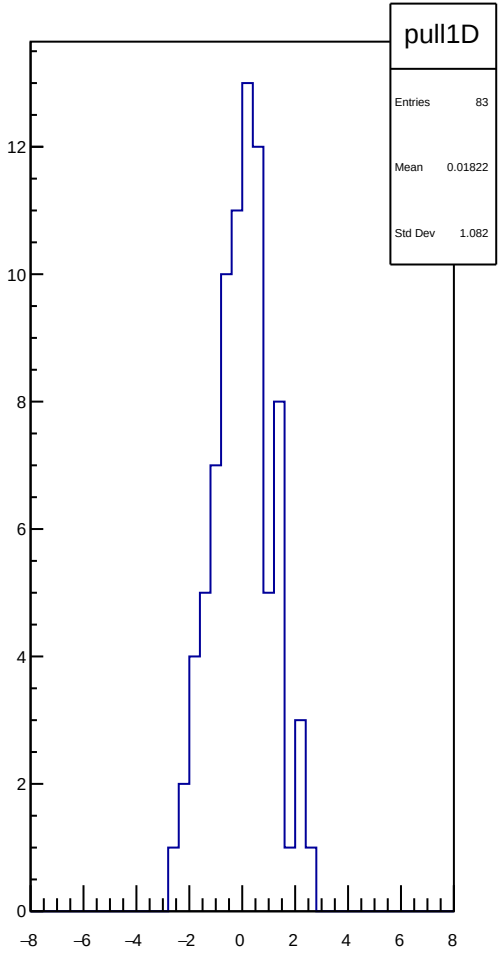

asym_sam_1548_avg_rms vs run
χ² / ndf 3.075e+04 / 82
p0 611.1 ± 0.4827
1000
900
800
700
600
500

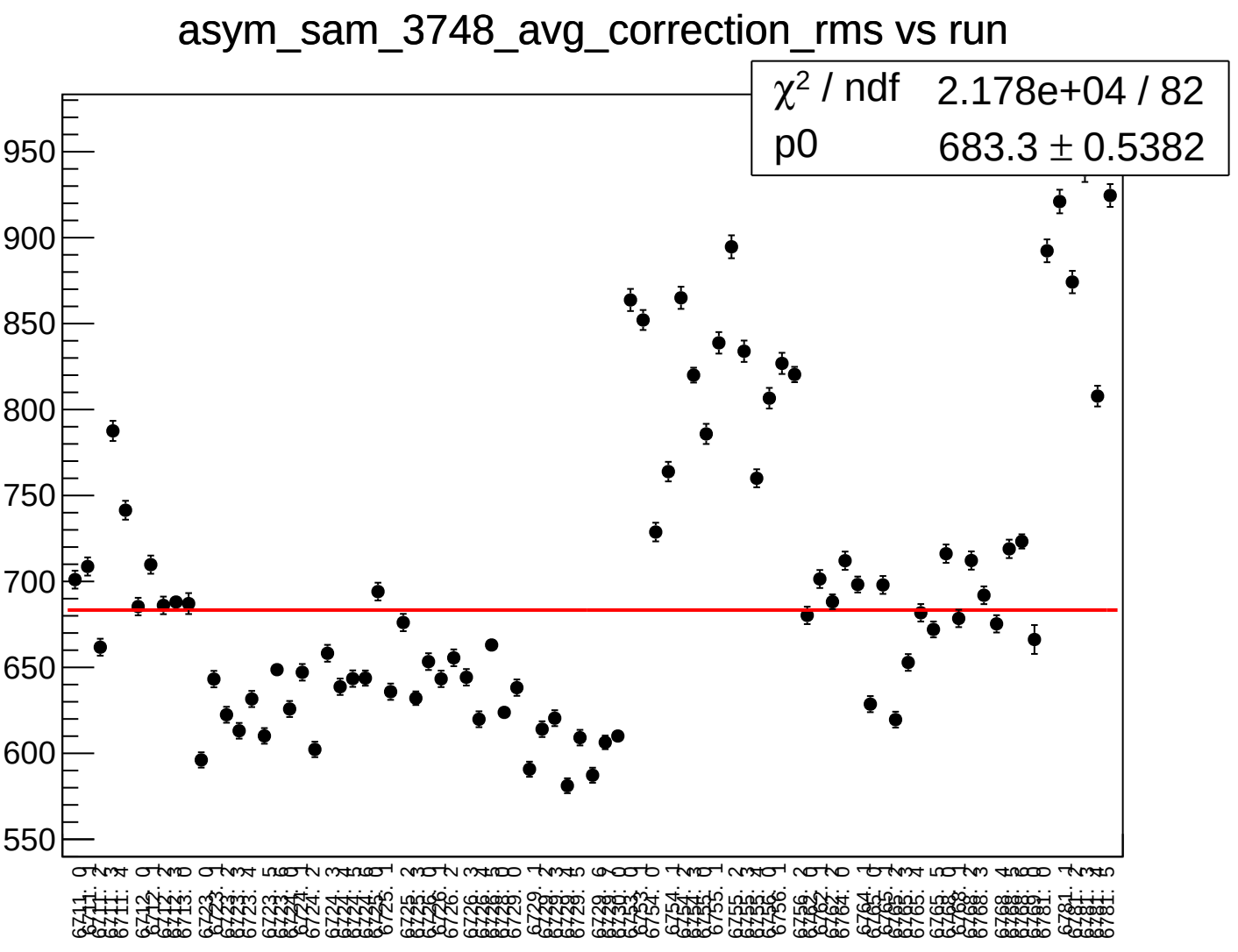

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 86.29 / 82
p0 −149 ± 92.26
pull
Entries 83
Mean 349.4
Std Dev 336.5

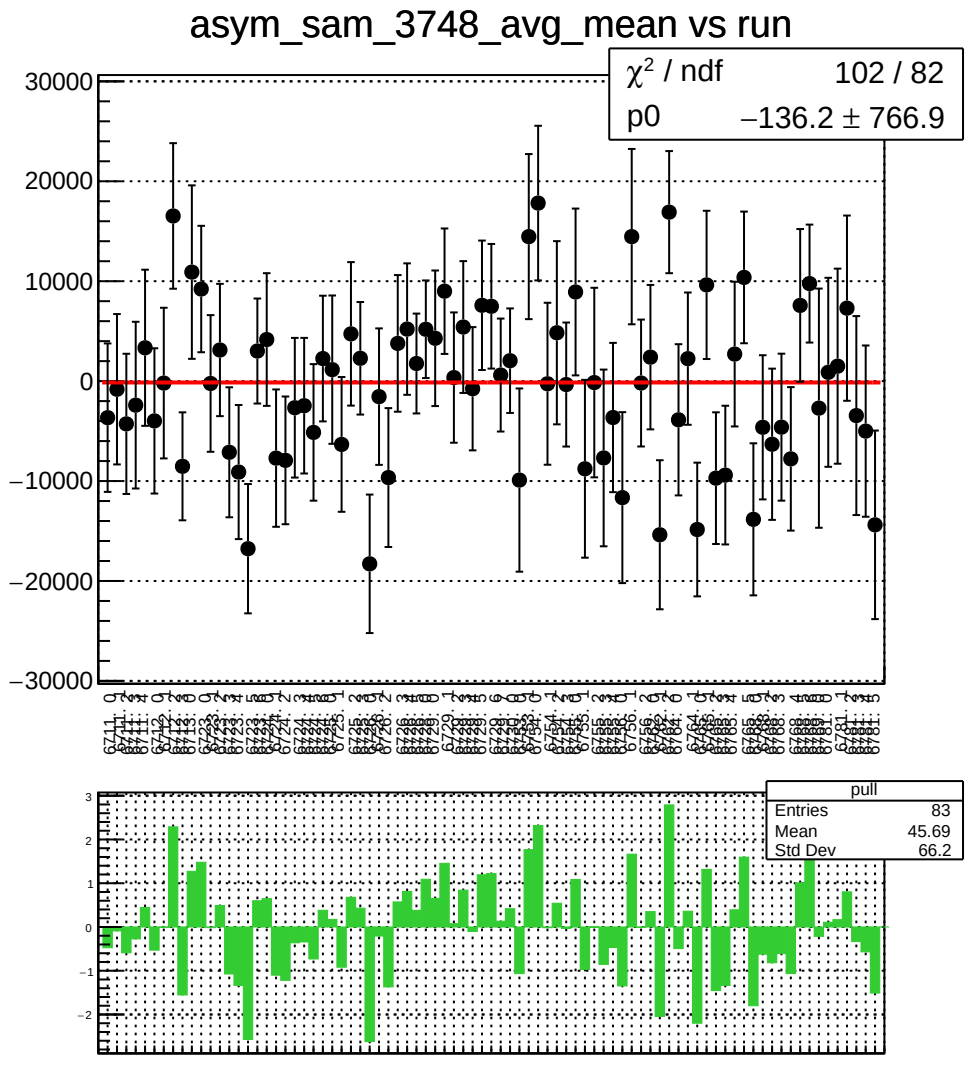

pull1D
Entries 83
Mean −0.003269
Std Dev 1.02

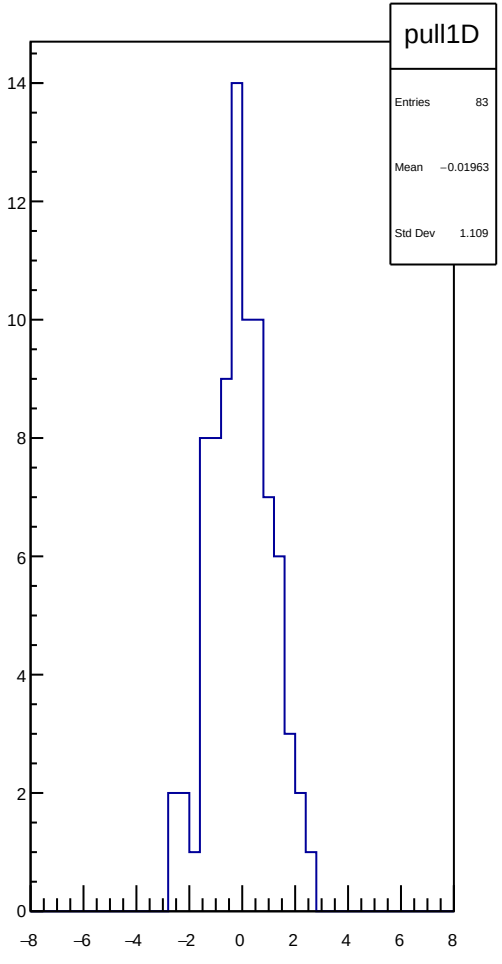

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 2.478e+04 / 82
p0 82.76 ± 0.06524
140
130
120
110
100
90
80
70

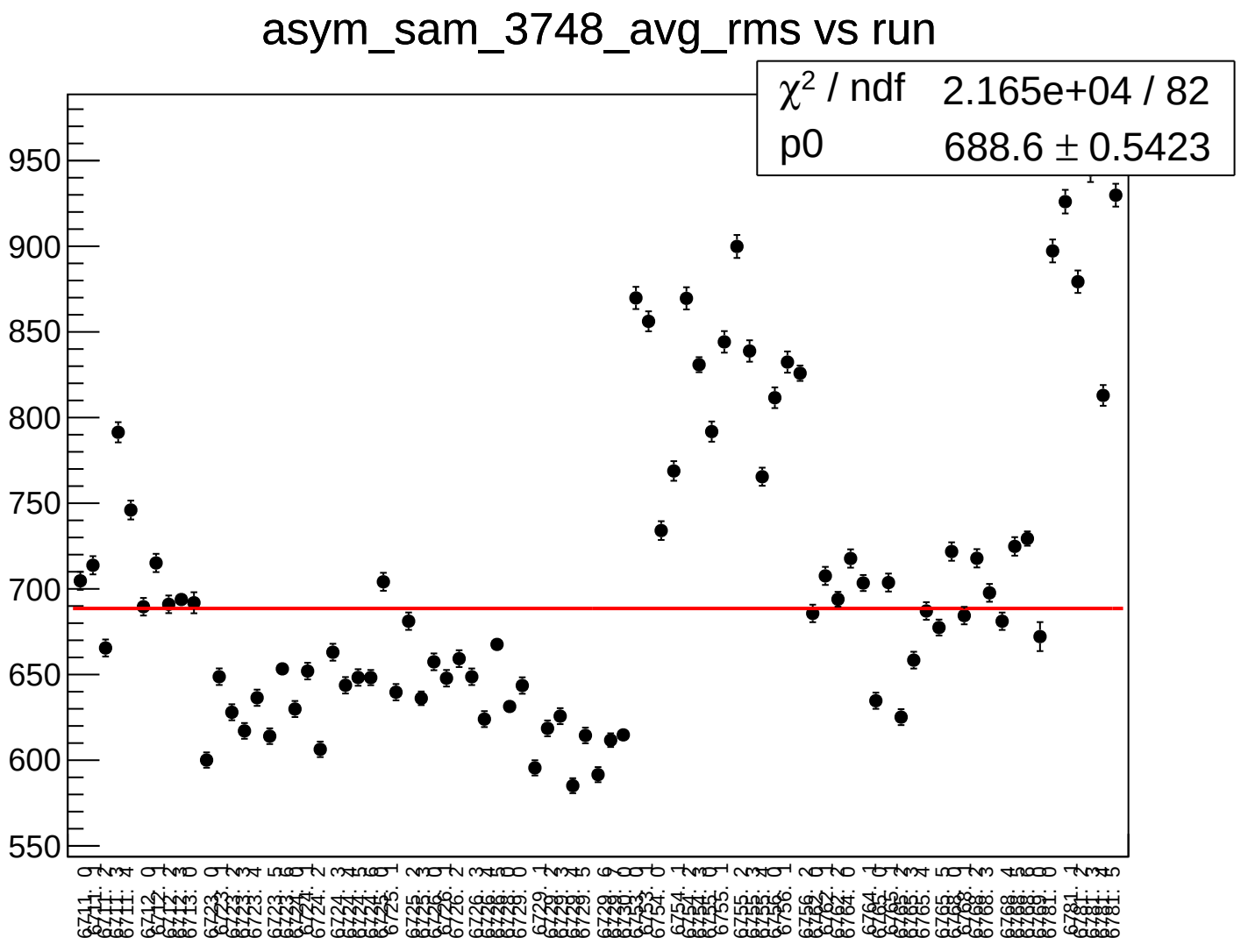

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 97.23 / 82
p0 1.458 ± 761.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean 40.08
Std Dev 71.3
2
1
0
−1
−2

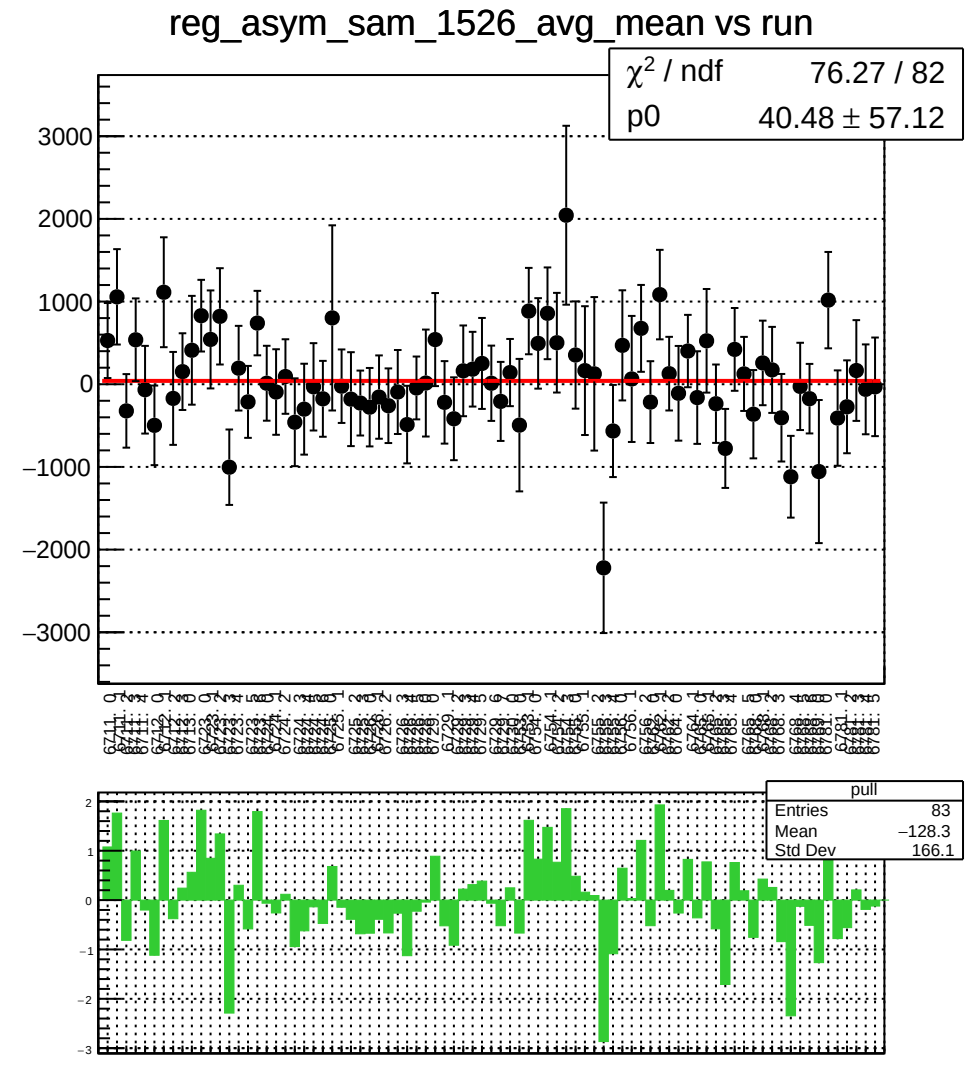

pull1D
Entries 83
Mean 0.01822
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

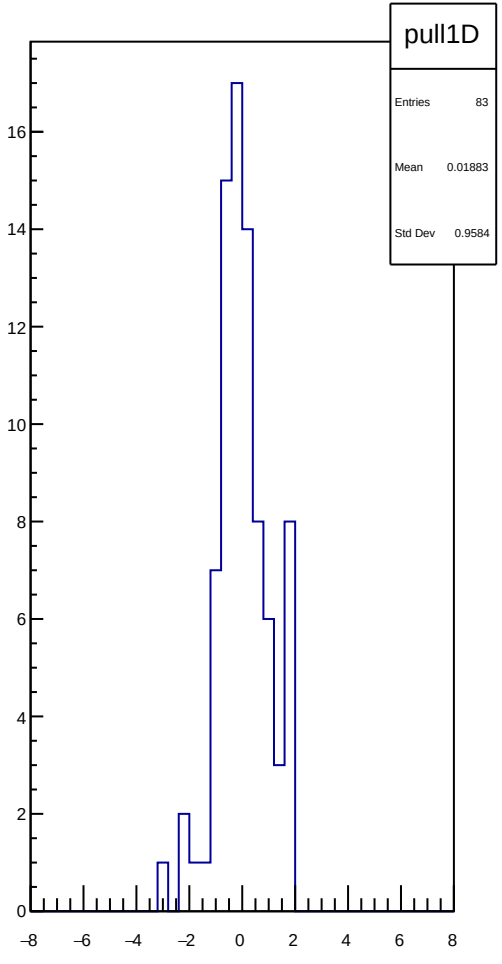

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 2.178e+04 / 82
p0 683.3 ± 0.5382
950
900
850
800
750
700
650
600
550


asym_sam_3748_avg_mean vs run
χ² / ndf 102 / 82
p0 −136.2 ± 766.9
pull
Entries 83
Mean 45.69
Std Dev 66.2

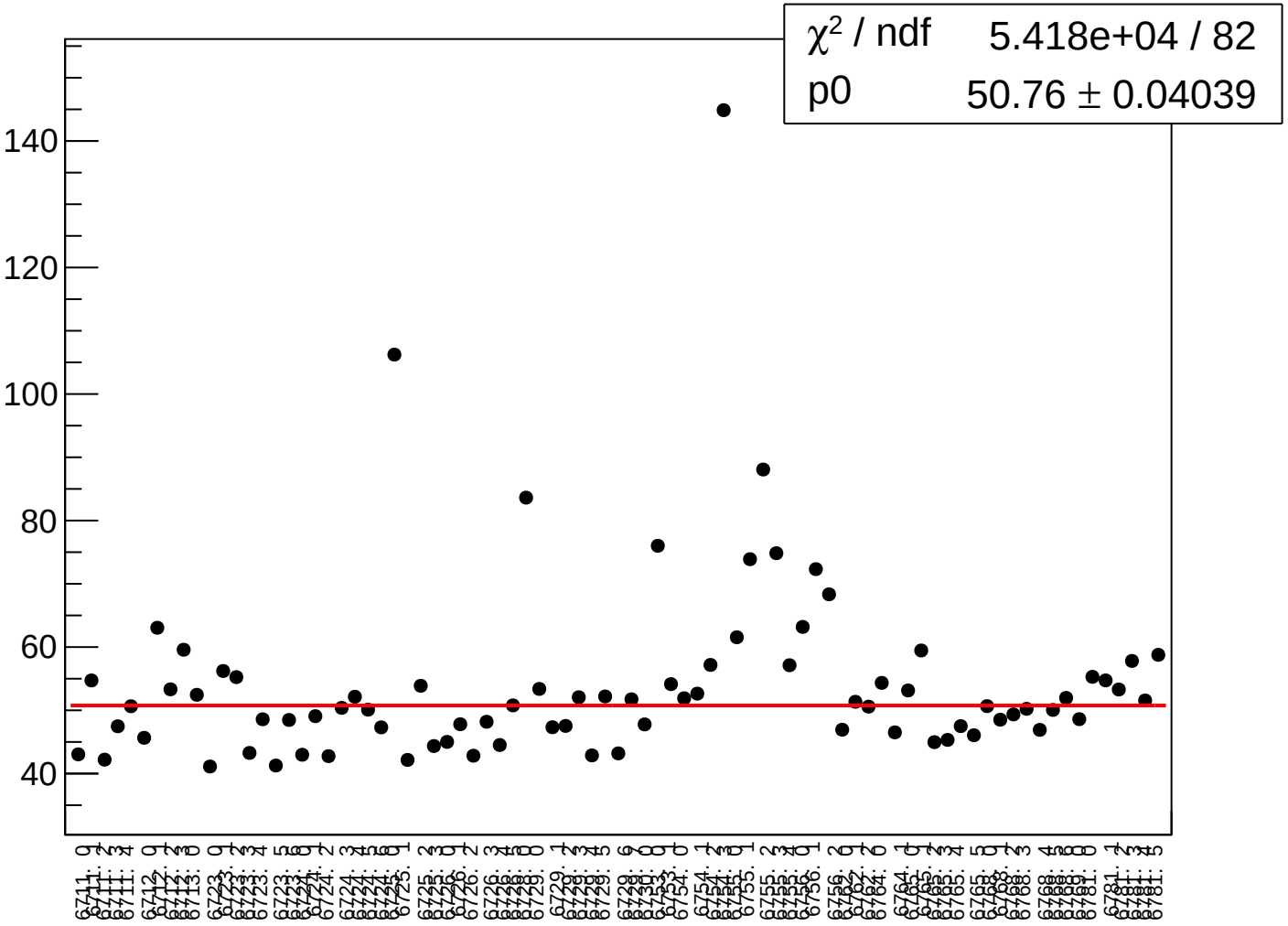

pull1D
Entries 83
Mean −0.01963
Std Dev 1.109

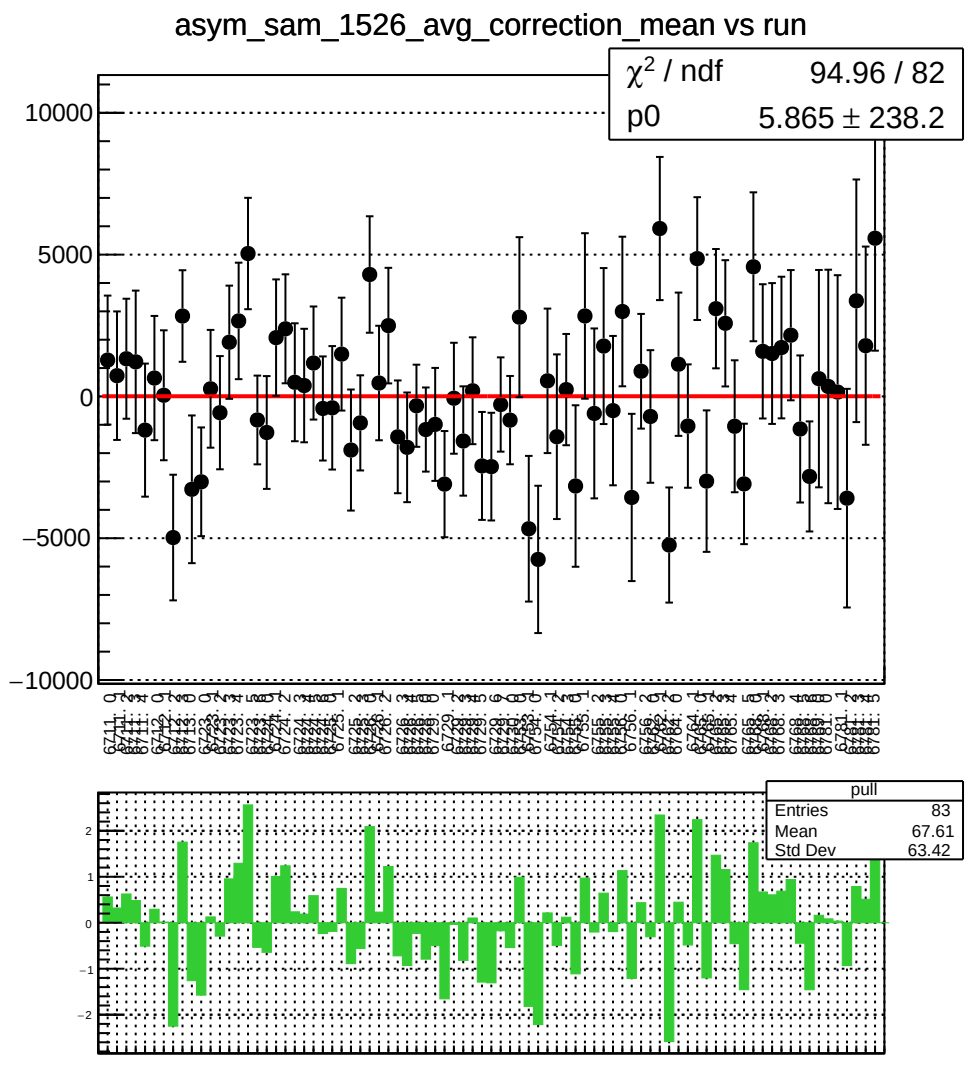

asym_sam_3748_avg_rms vs run
χ^2 / ndf 2.165e+04 / 82
p0 688.6 ± 0.5423
950
900
850
800
750
700
650
600
550

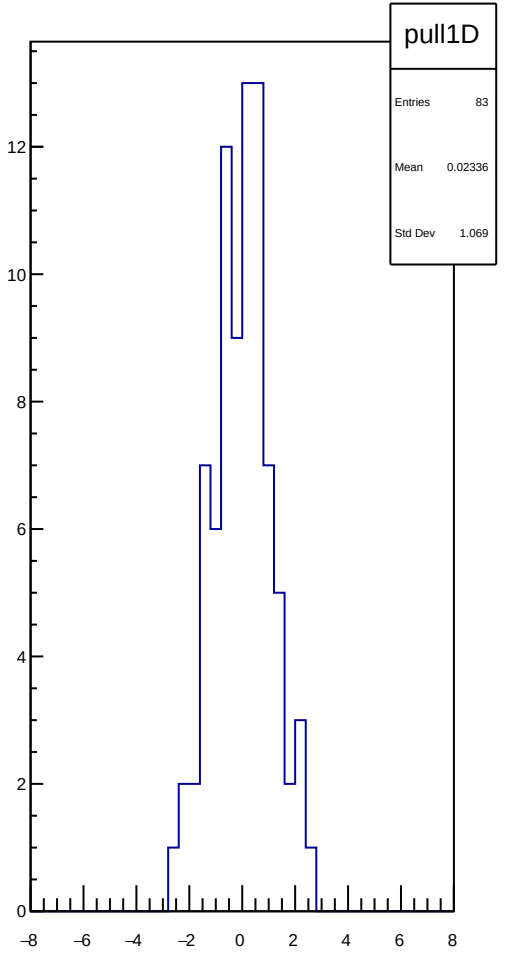

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 76.27 / 82
p0 40.48 ± 57.12
pull
Entries 83
Mean −128.3
Std Dev 166.1

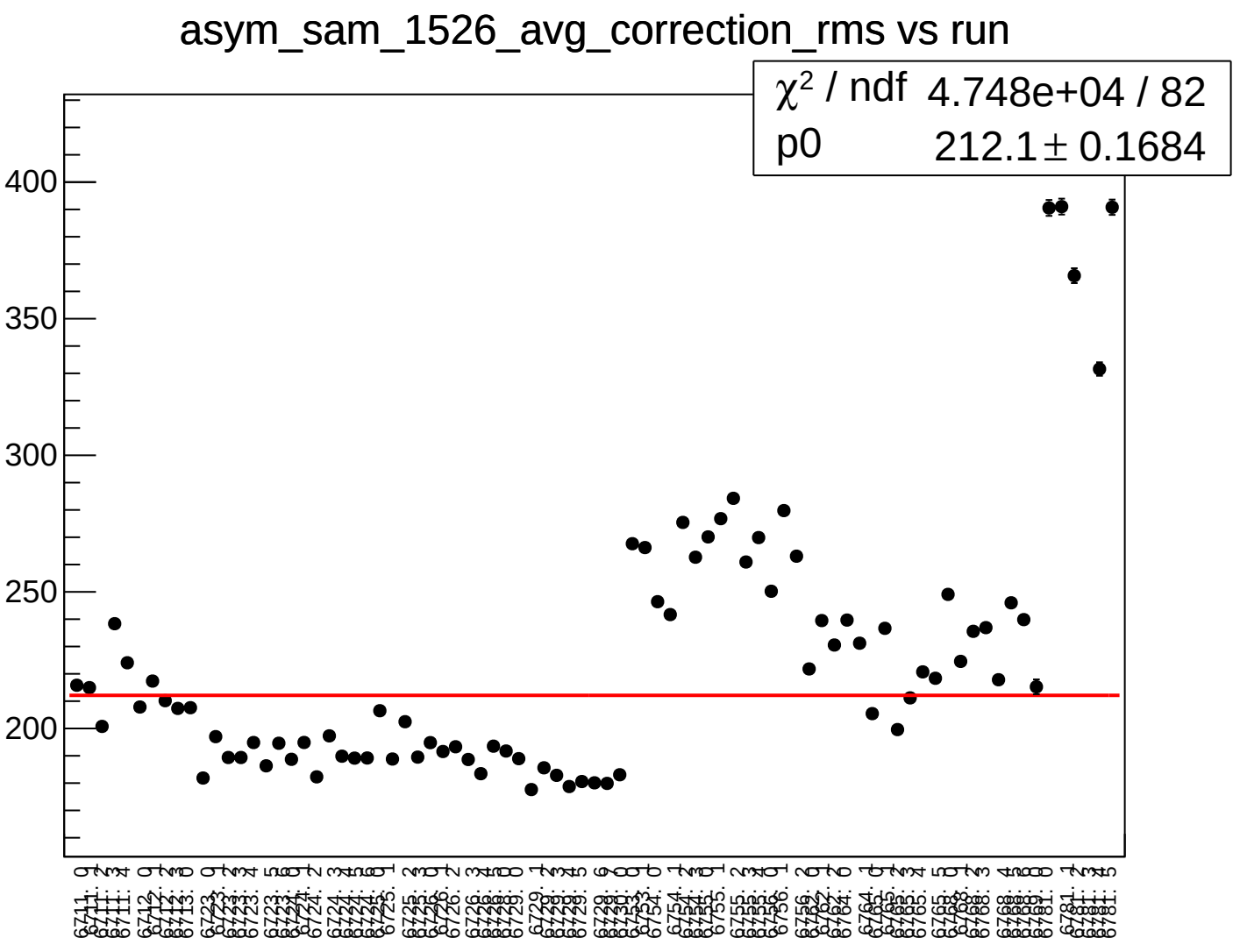

pull1D
Entries 83
Mean 0.01883
Std Dev 0.9584

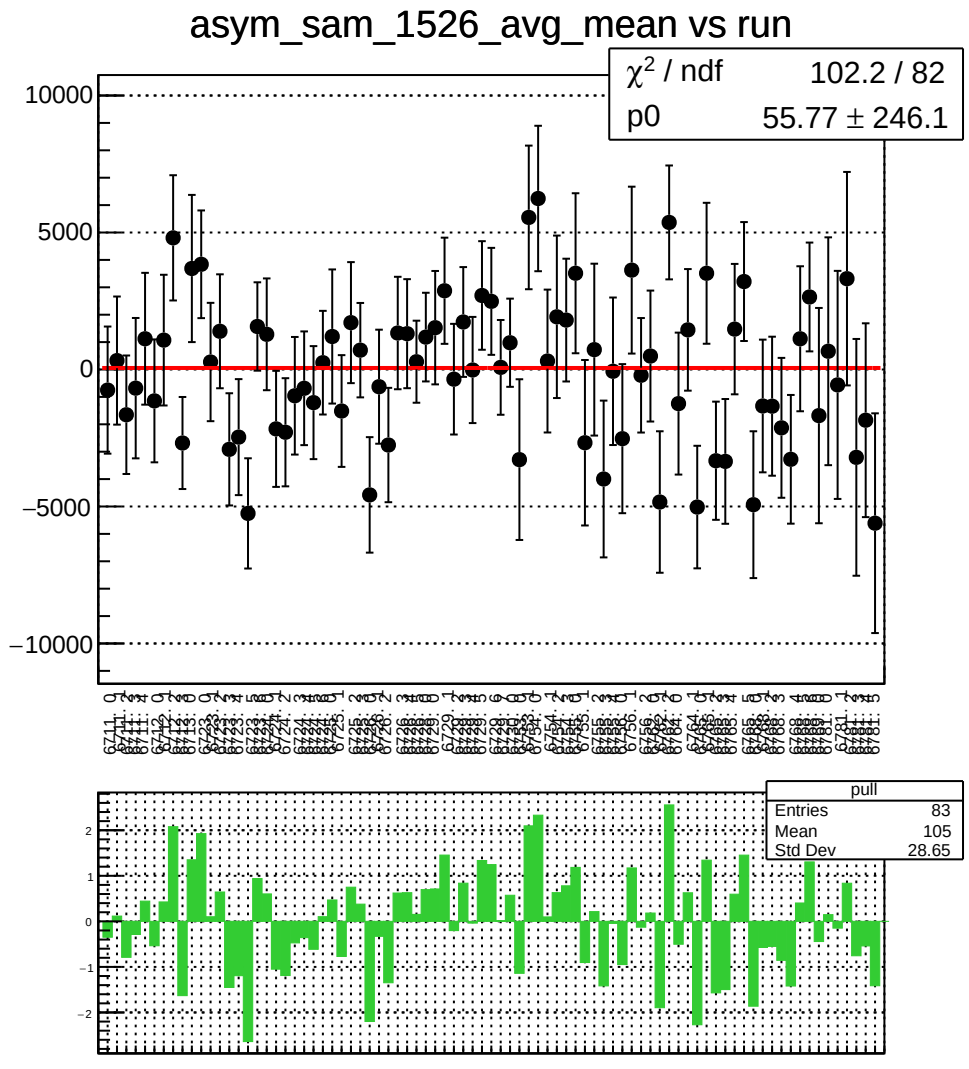
reg_asym_sam_1526_avg_rms vs run

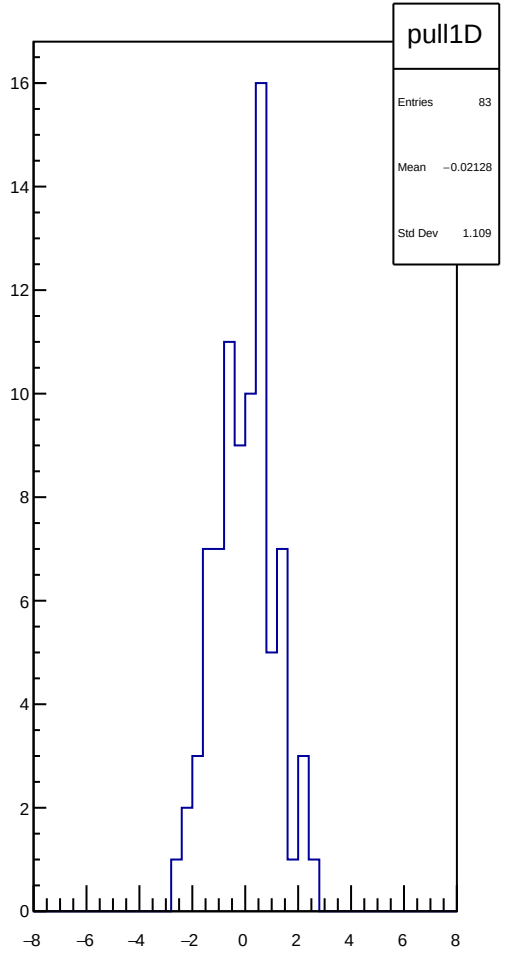


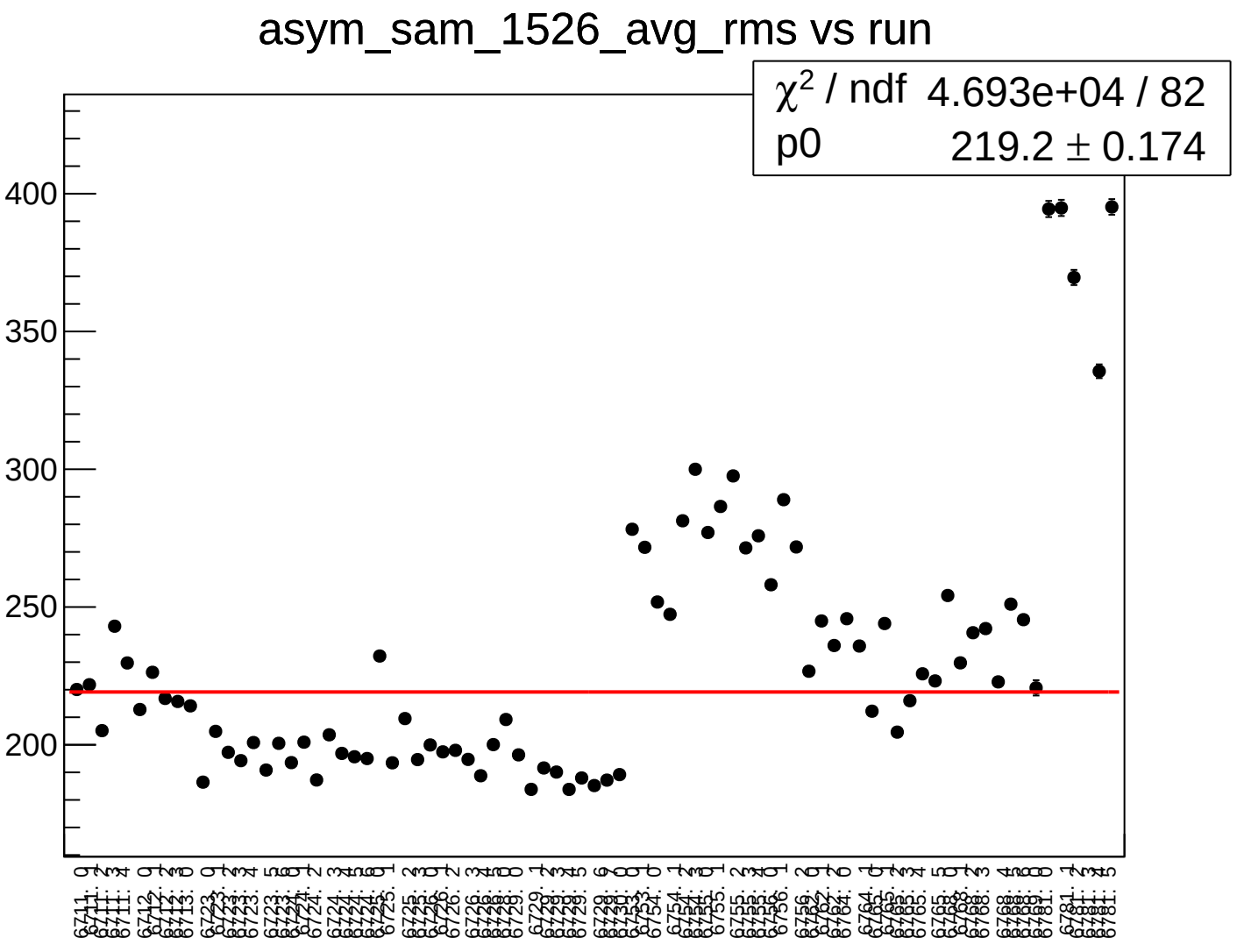

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 94.96 / 82
p0 5.865 ± 238.2
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 67.61
Std Dev 63.42
2
1
0
−1
−2

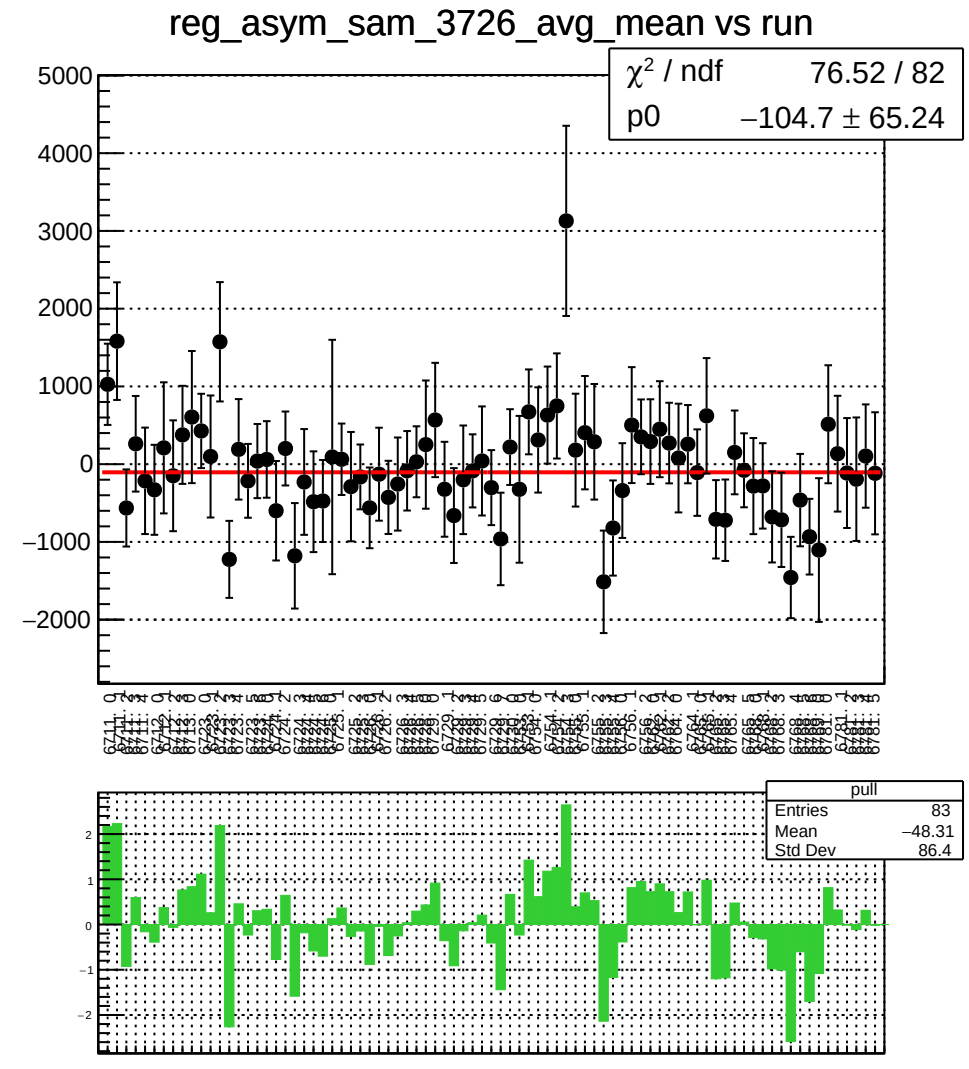

pull1D
Entries 83
Mean 0.02336
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

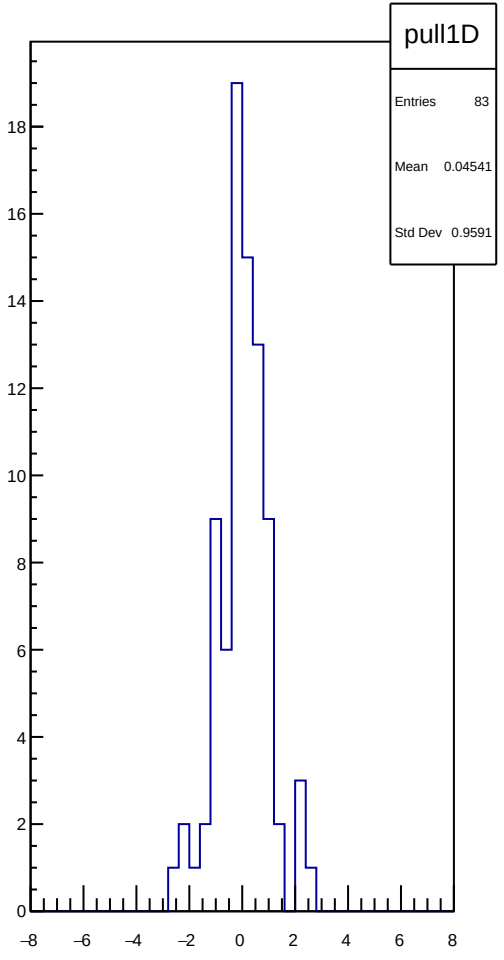

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 4.748e+04 / 82
p0 212.1 ± 0.1684
400
350
300
250
200

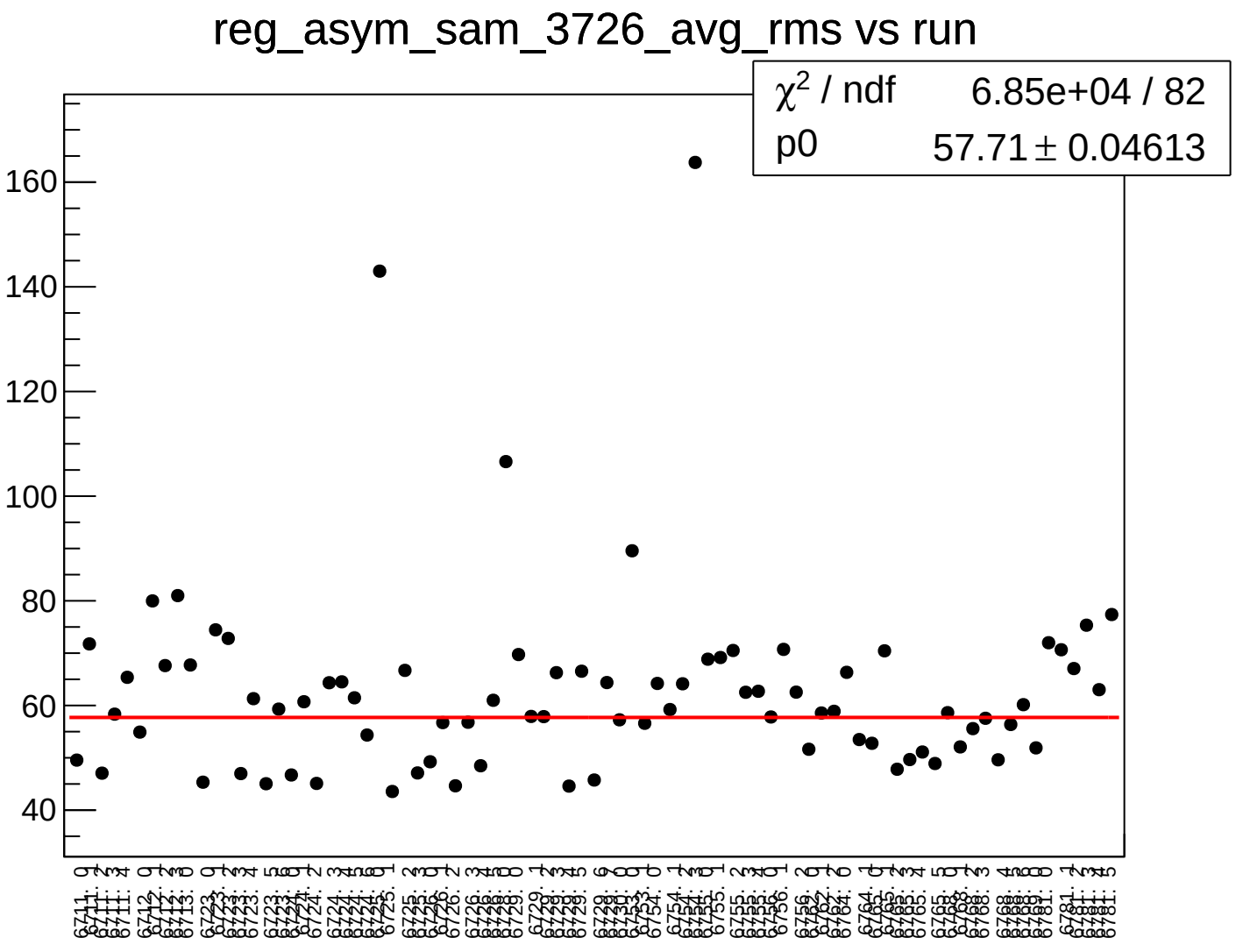

asym_sam_1526_avg_mean vs run
χ² / ndf 102.2 / 82
p0 55.77 ± 246.1
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 105
Std Dev 28.65
2
1
0
−1
−2

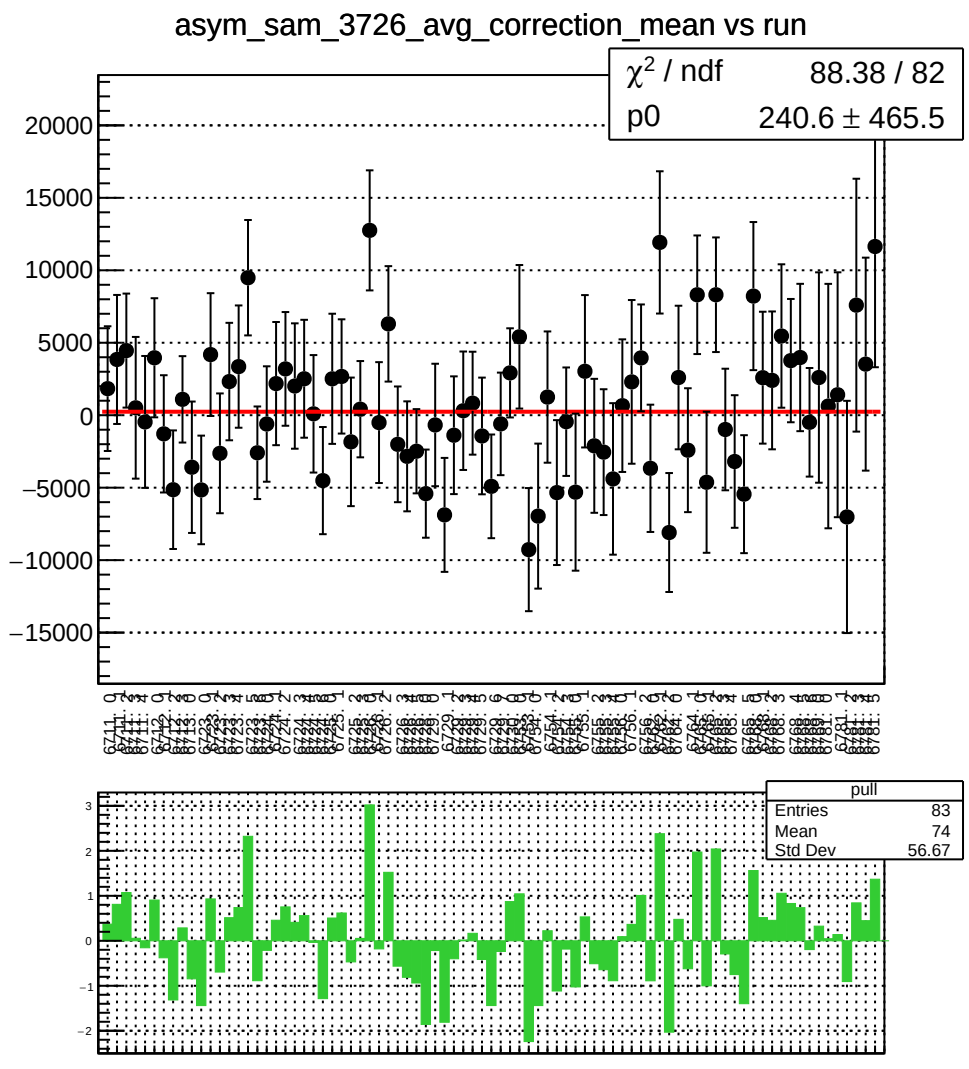

pull1D
Entries 83
Mean −0.02128
Std Dev 1.109
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

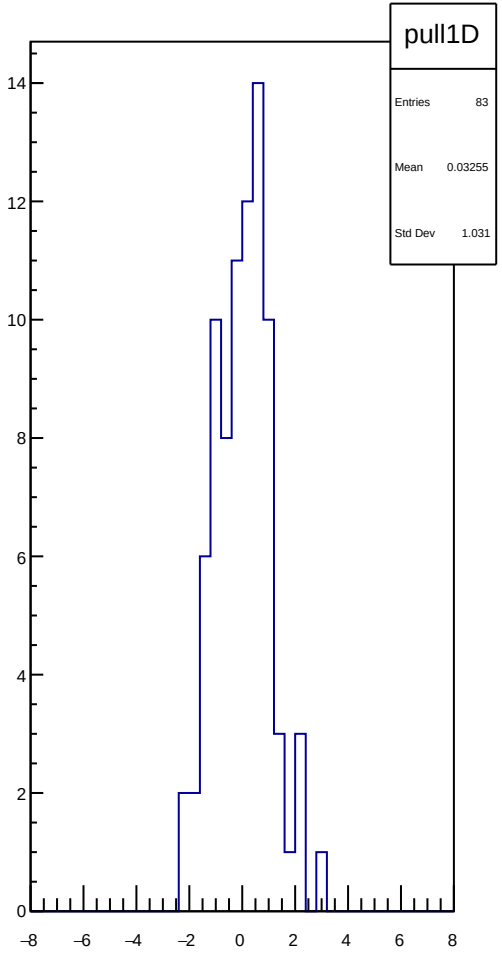

asym_sam_1526_avg_rms vs run
χ² / ndf 4.693e+04 / 82
p0 219.2 ± 0.174
400
350
300
250
200

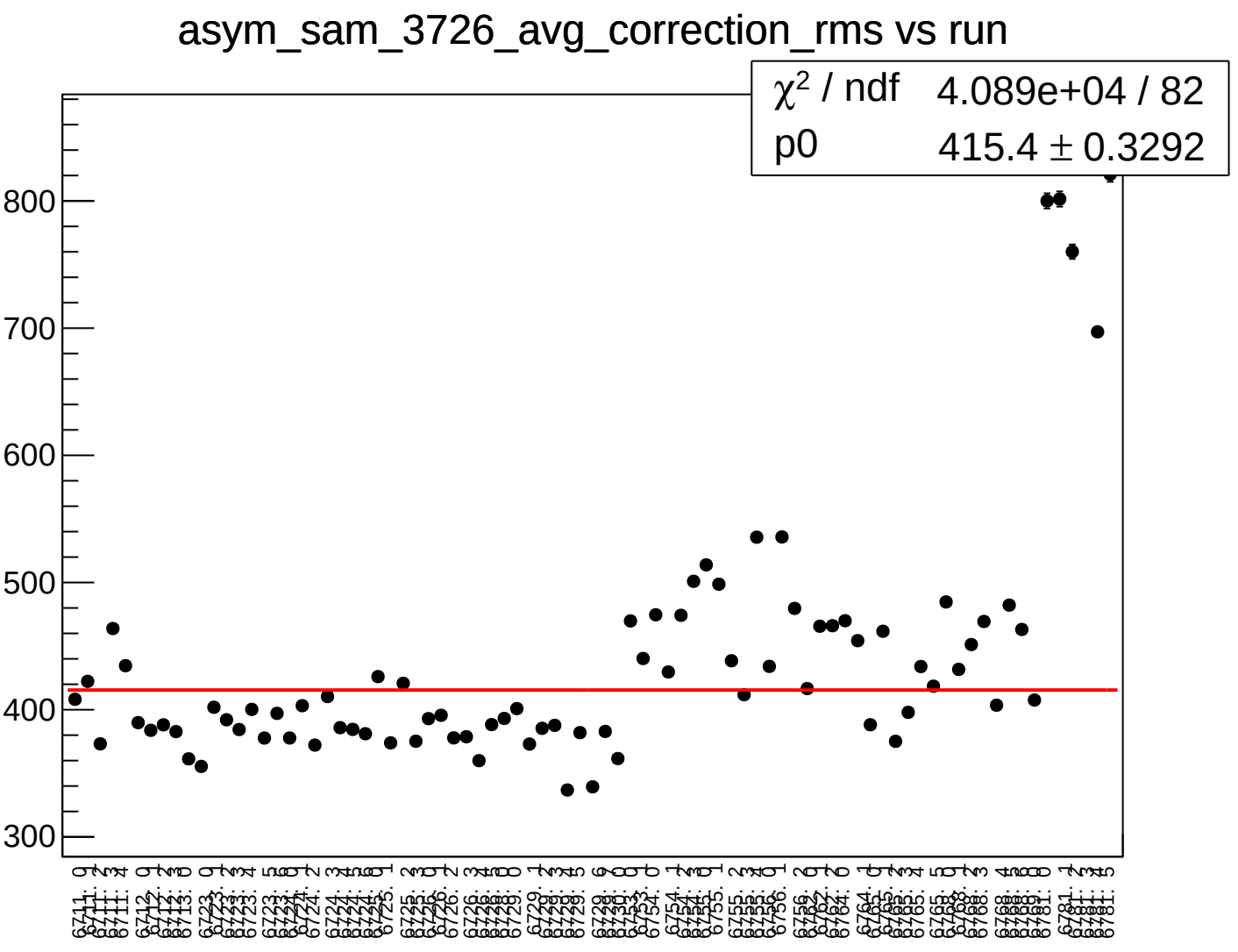

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 76.52 / 82
p0 −104.7 ± 65.24
pull
Entries 83
Mean −48.31
Std Dev 86.4

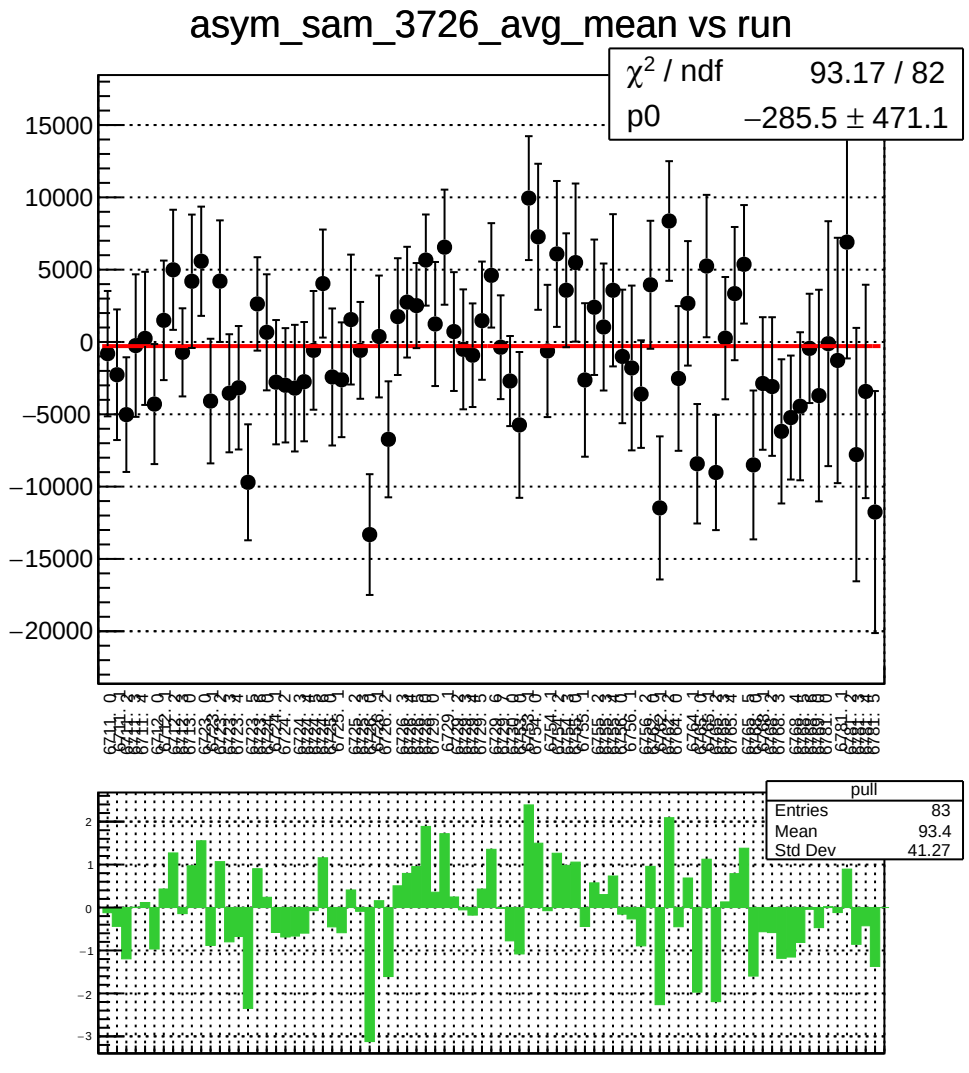

pull1D
Entries 83
Mean 0.04541
Std Dev 0.9591

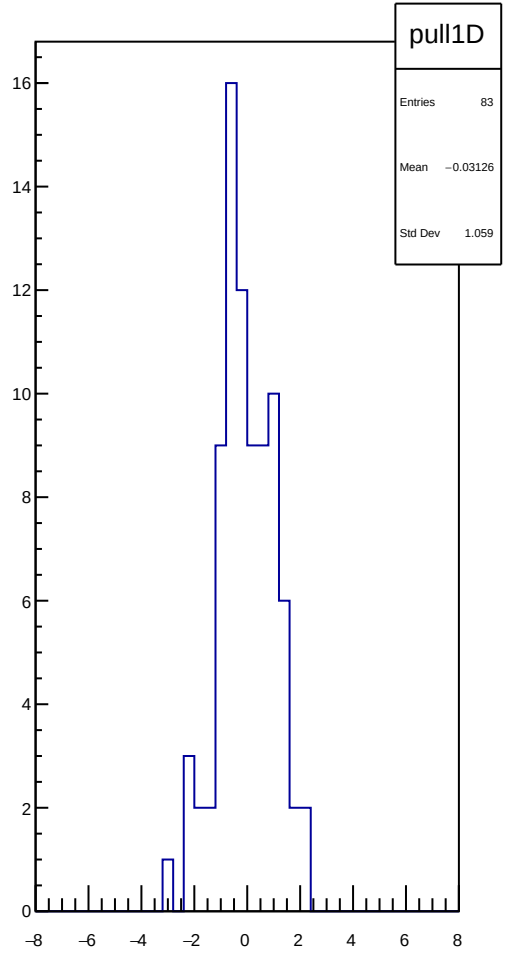

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 6.85e+04 / 82
p0 57.71 ± 0.04613
160
140
120
100
80
60
40

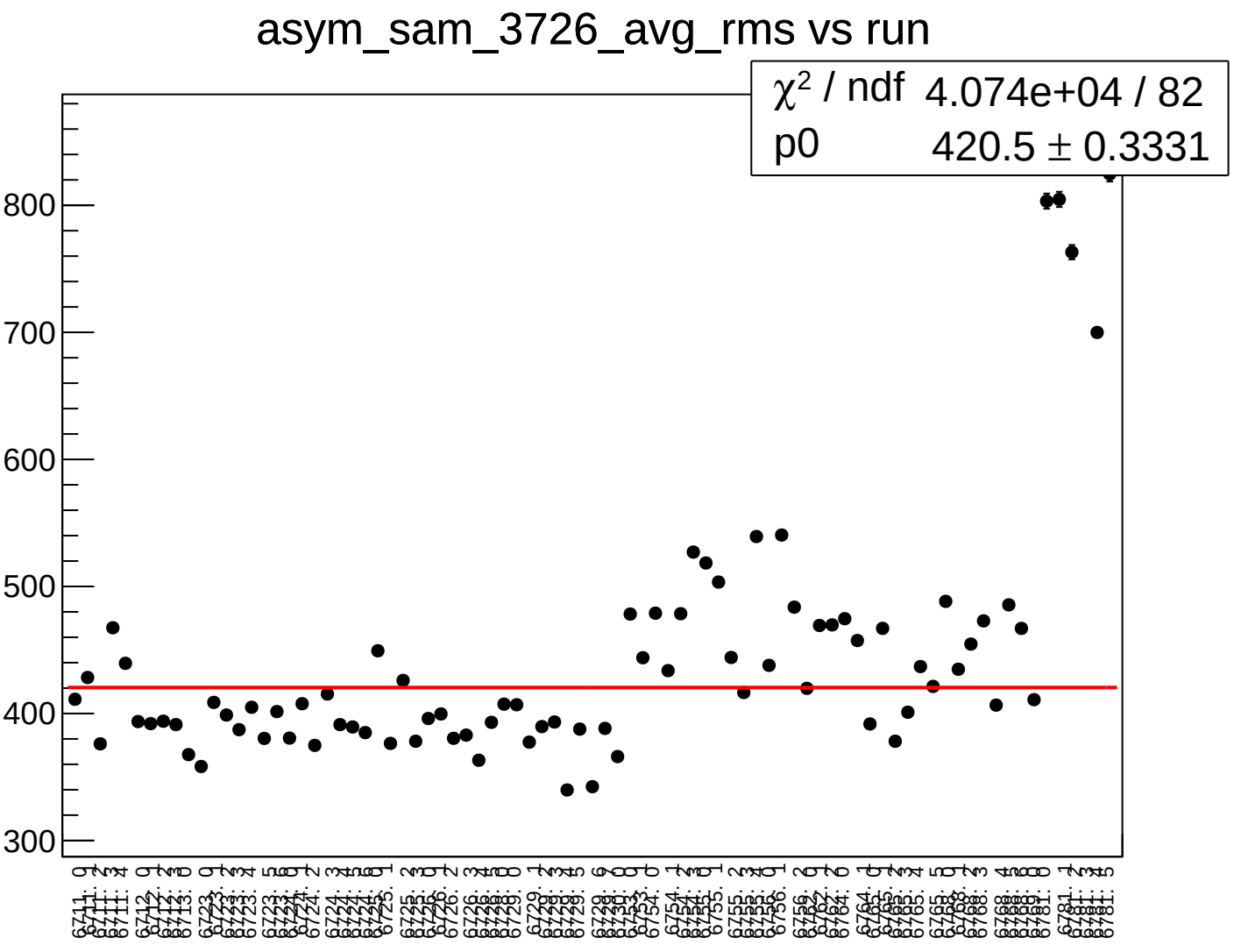

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 88.38 / 82
p0 240.6 ± 465.5
pull
Entries 83
Mean 74
Std Dev 56.67

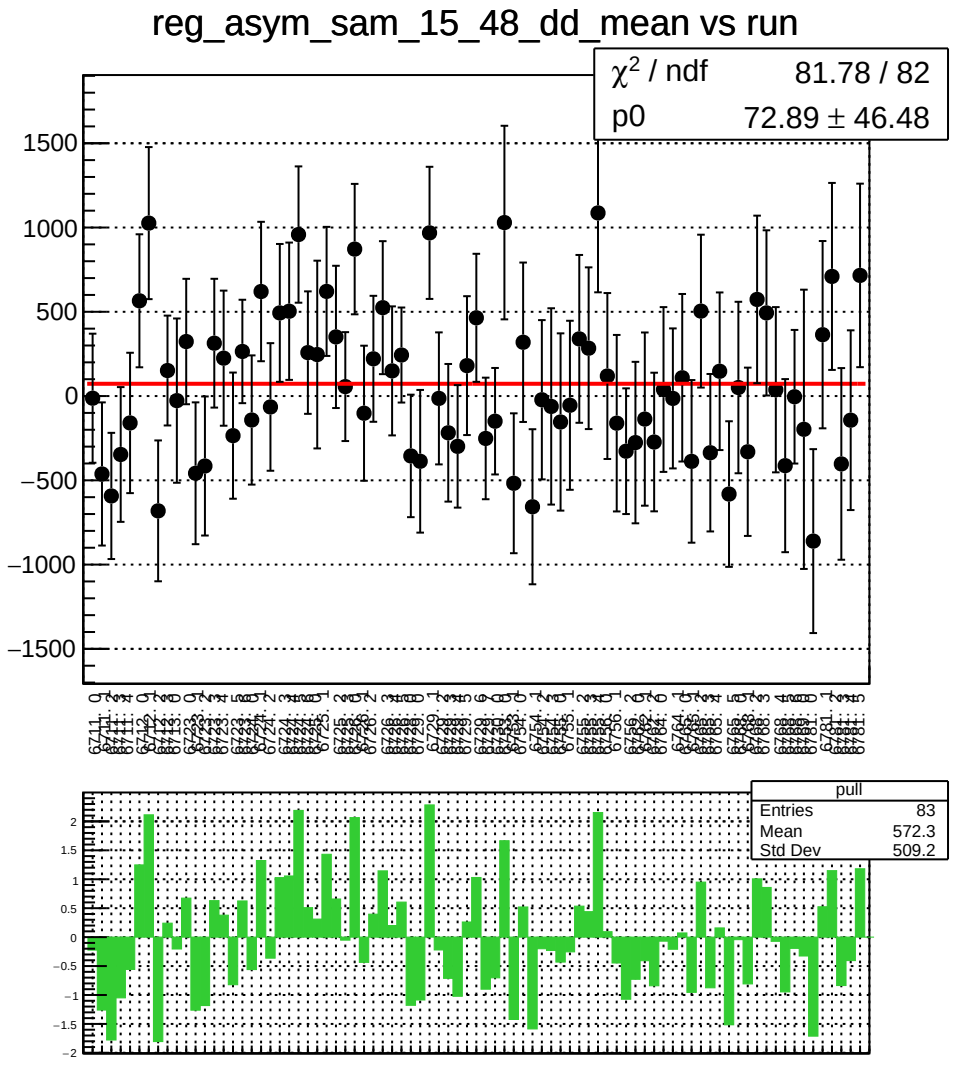

pull1D
Entries 83
Mean 0.03255
Std Dev 1.031

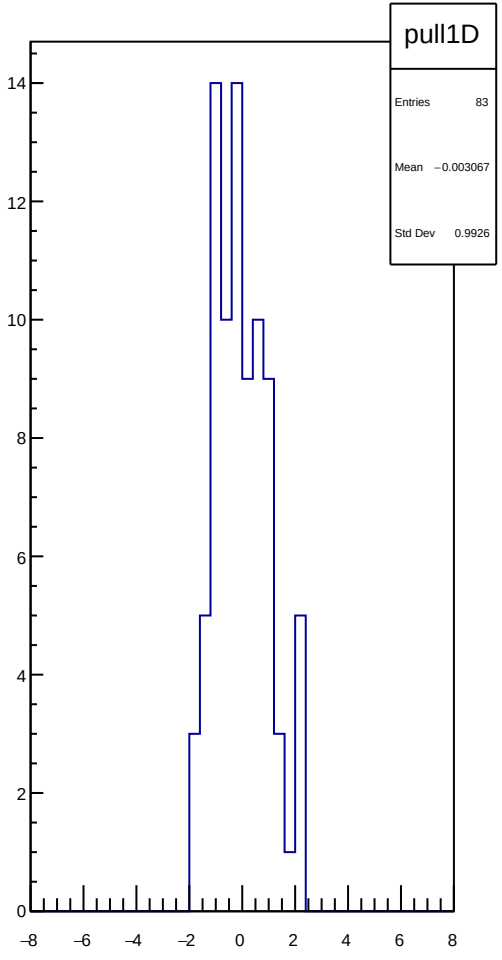

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 4.089e+04 / 82
p0 415.4 ± 0.3292
800
700
600
500
400
300

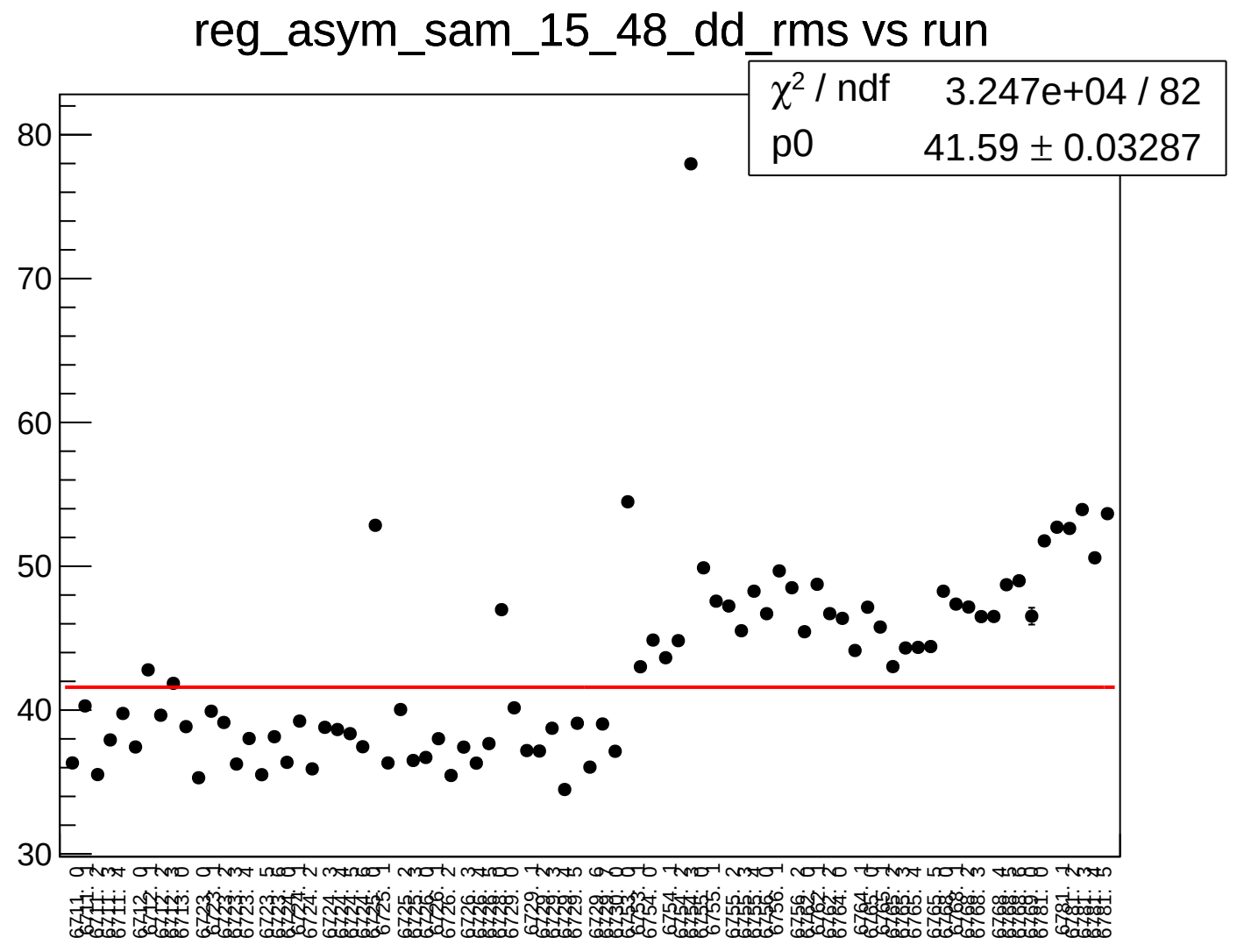

asym_sam_3726_avg_mean vs run
χ² / ndf 93.17 / 82
p0 −285.5 ± 471.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 83
Mean 93.4
Std Dev 41.27
2
1
0
−1
−2
−3

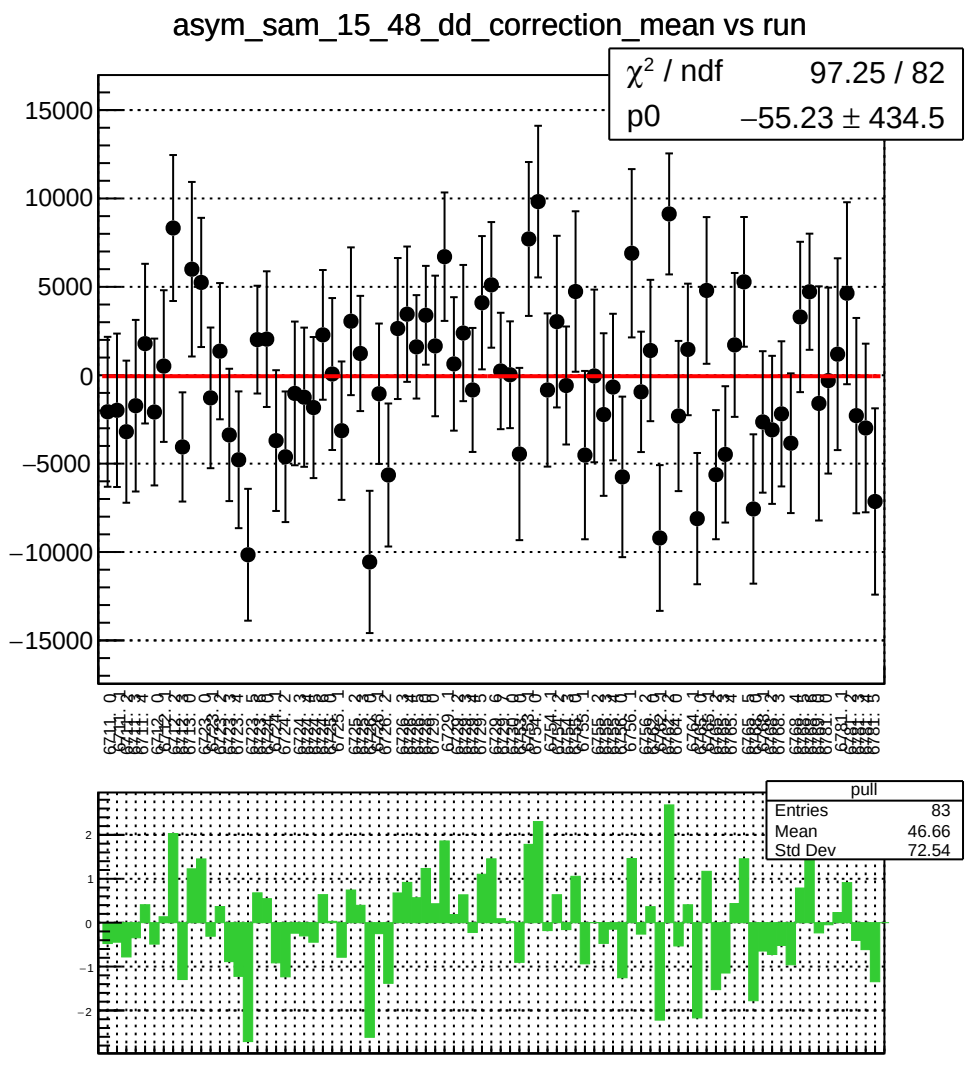

pull1D
Entries 83
Mean −0.03126
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

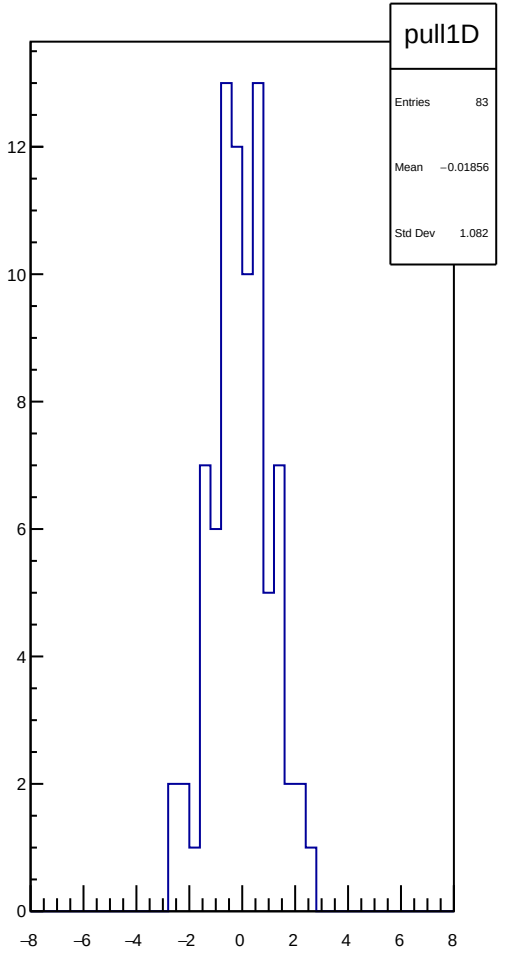

asym_sam_3726_avg_rms vs run
χ² / ndf 4.074e+04 / 82
p0 420.5 ± 0.3331
800
700
600
500
400
300

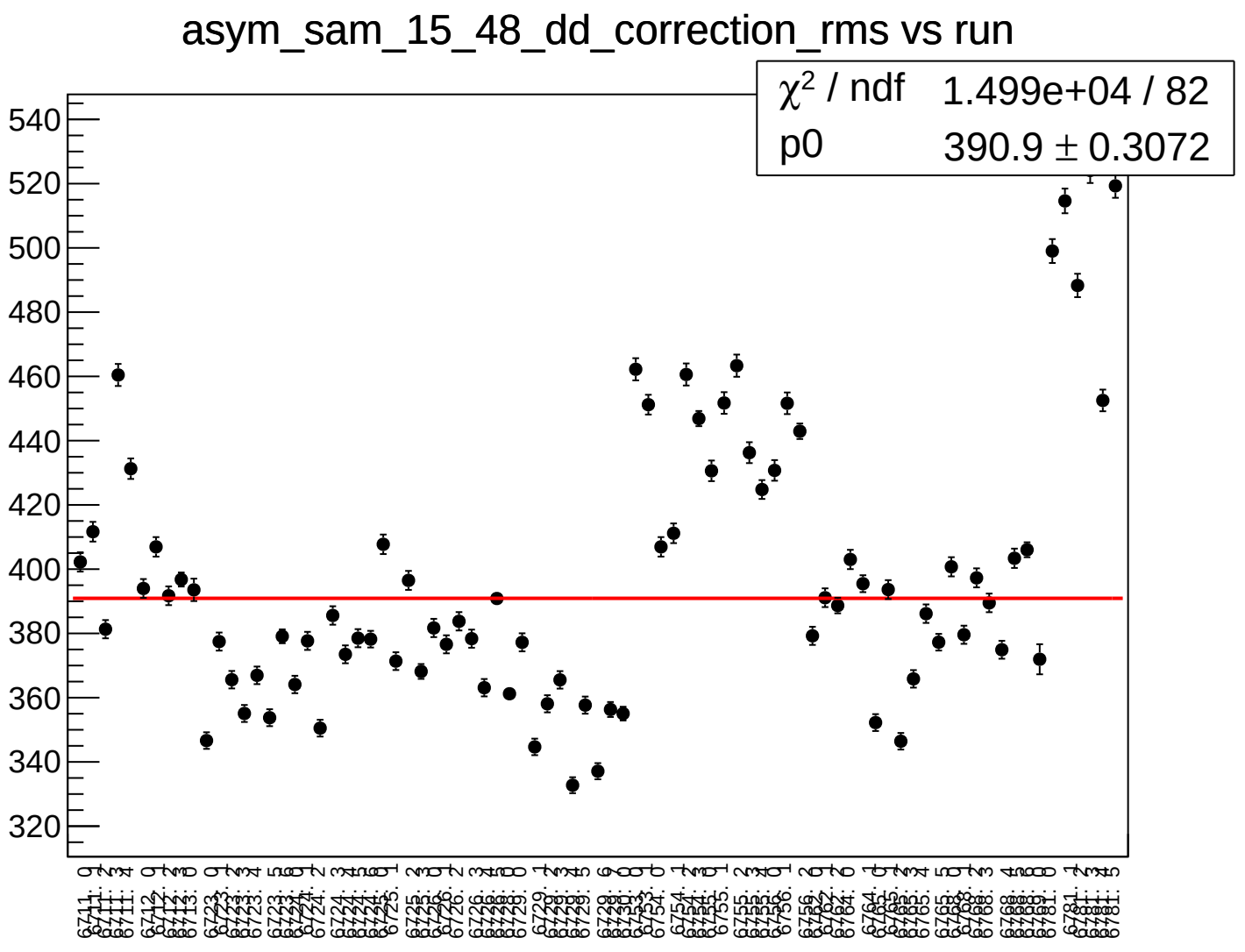

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 81.78 / 82
p0 72.89 ± 46.48
pull
Entries 83
Mean 572.3
Std Dev 509.2

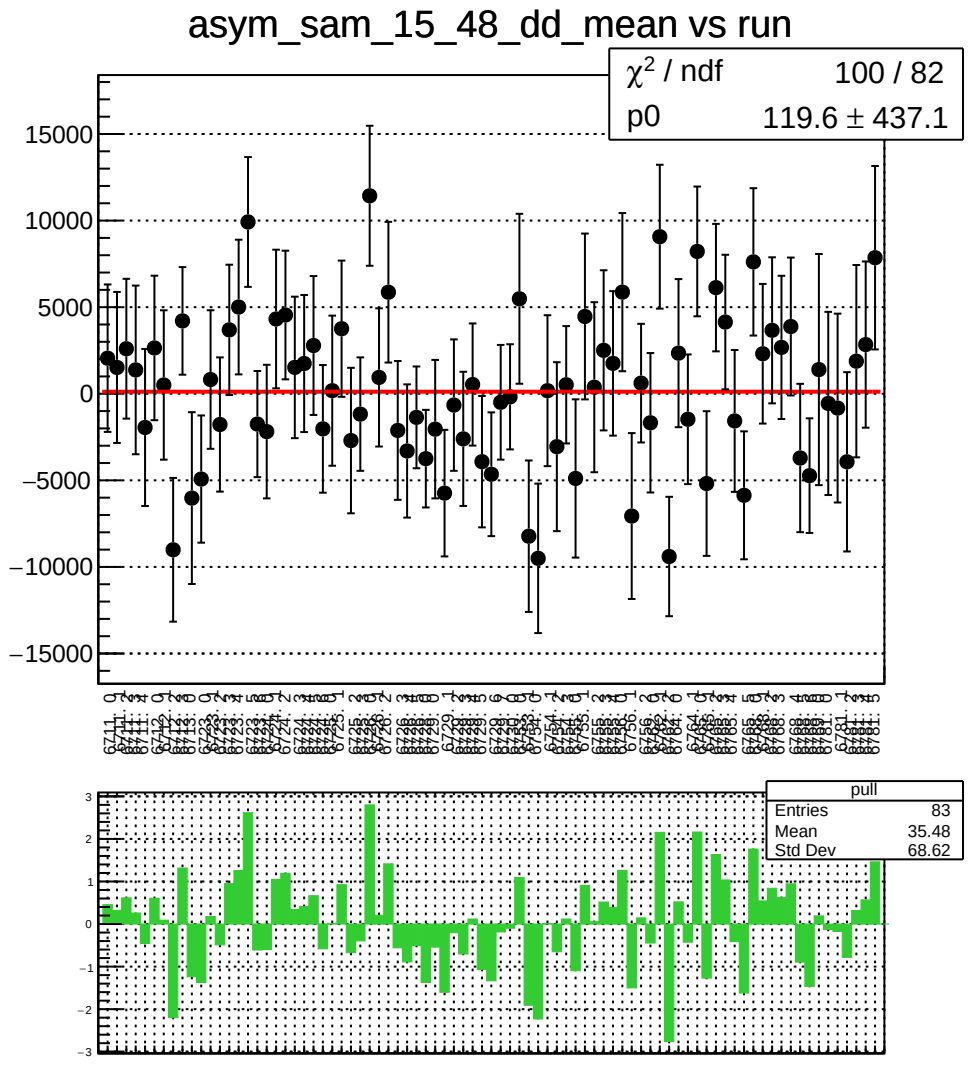

pull1D
Entries 83
Mean −0.003067
Std Dev 0.9926

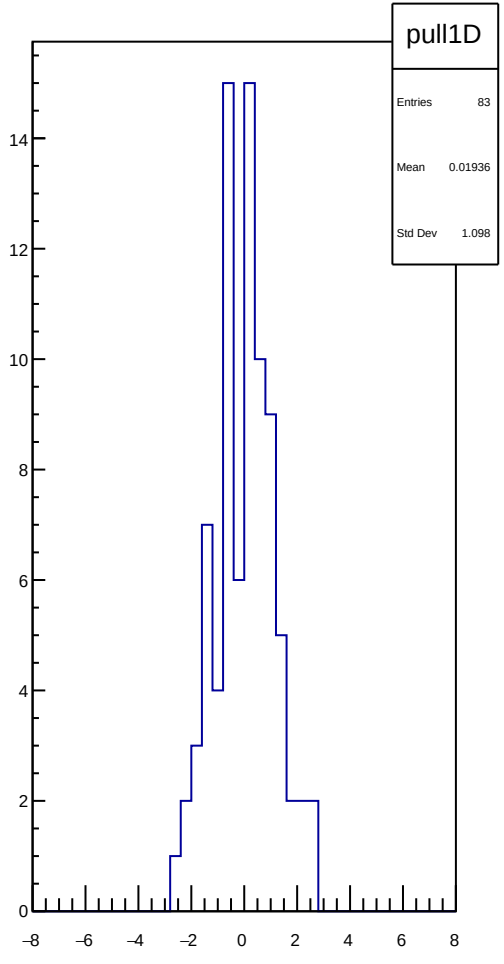

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 3.247e+04 / 82
p0 41.59 ± 0.03287
80
70
60
50
40
30

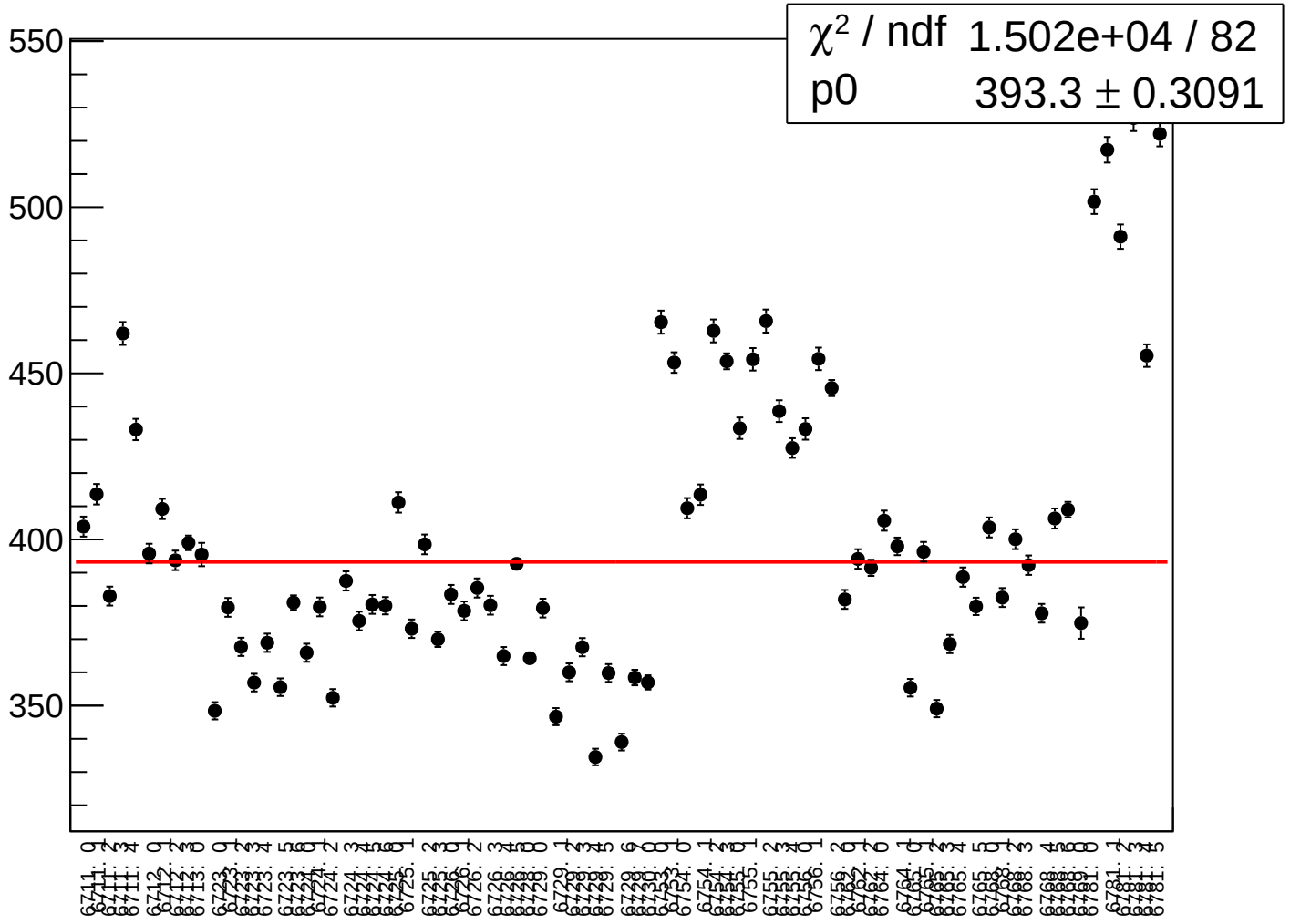

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 97.25 / 82
p0 −55.23 ± 434.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 46.66
Std Dev 72.54
2
1
0
−1
−2

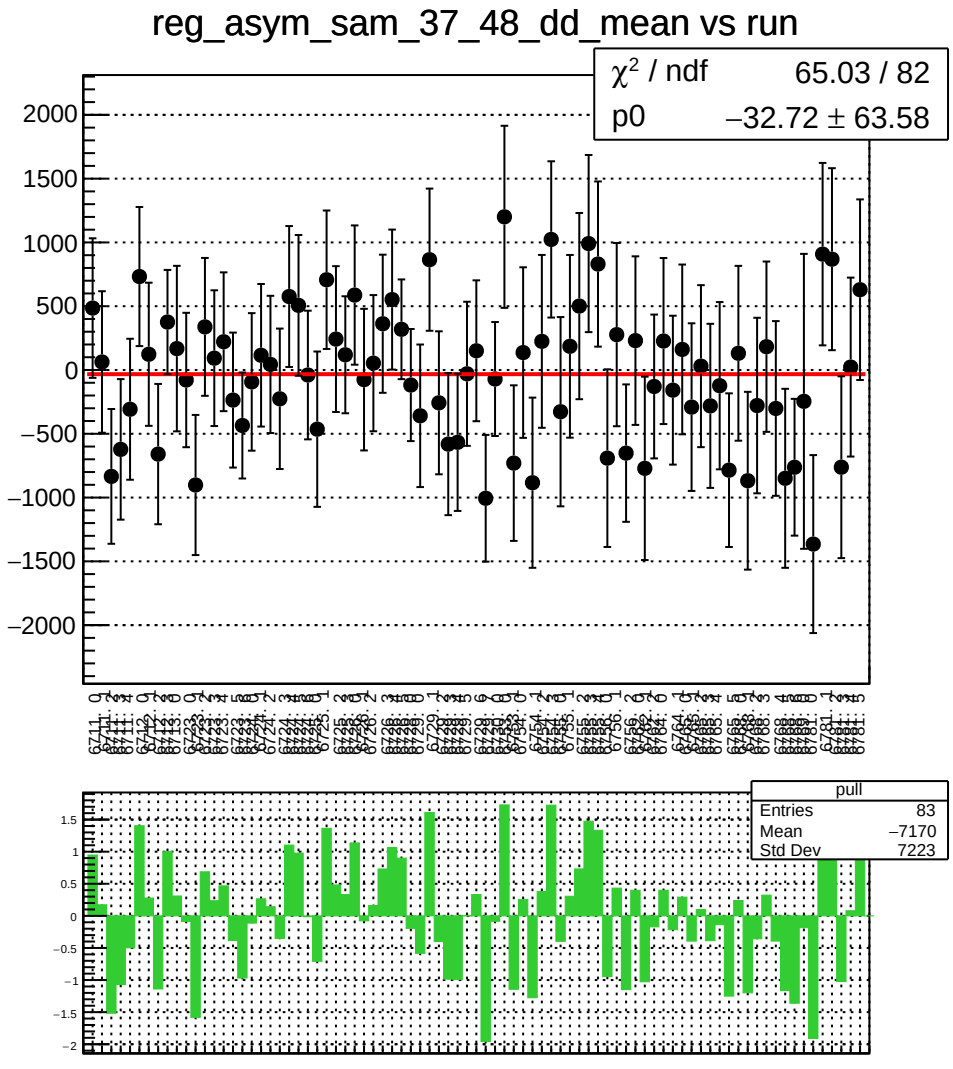

pull1D
Entries 83
Mean −0.01856
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

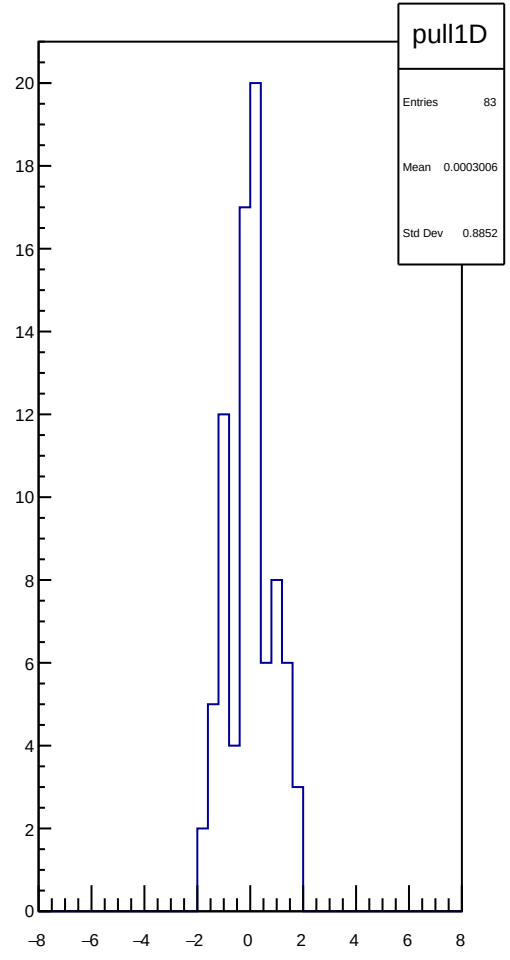

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 1.499e+04 / 82
p0 390.9 ± 0.3072
540
520
500
480
460
440
420
400
380
360
340
320

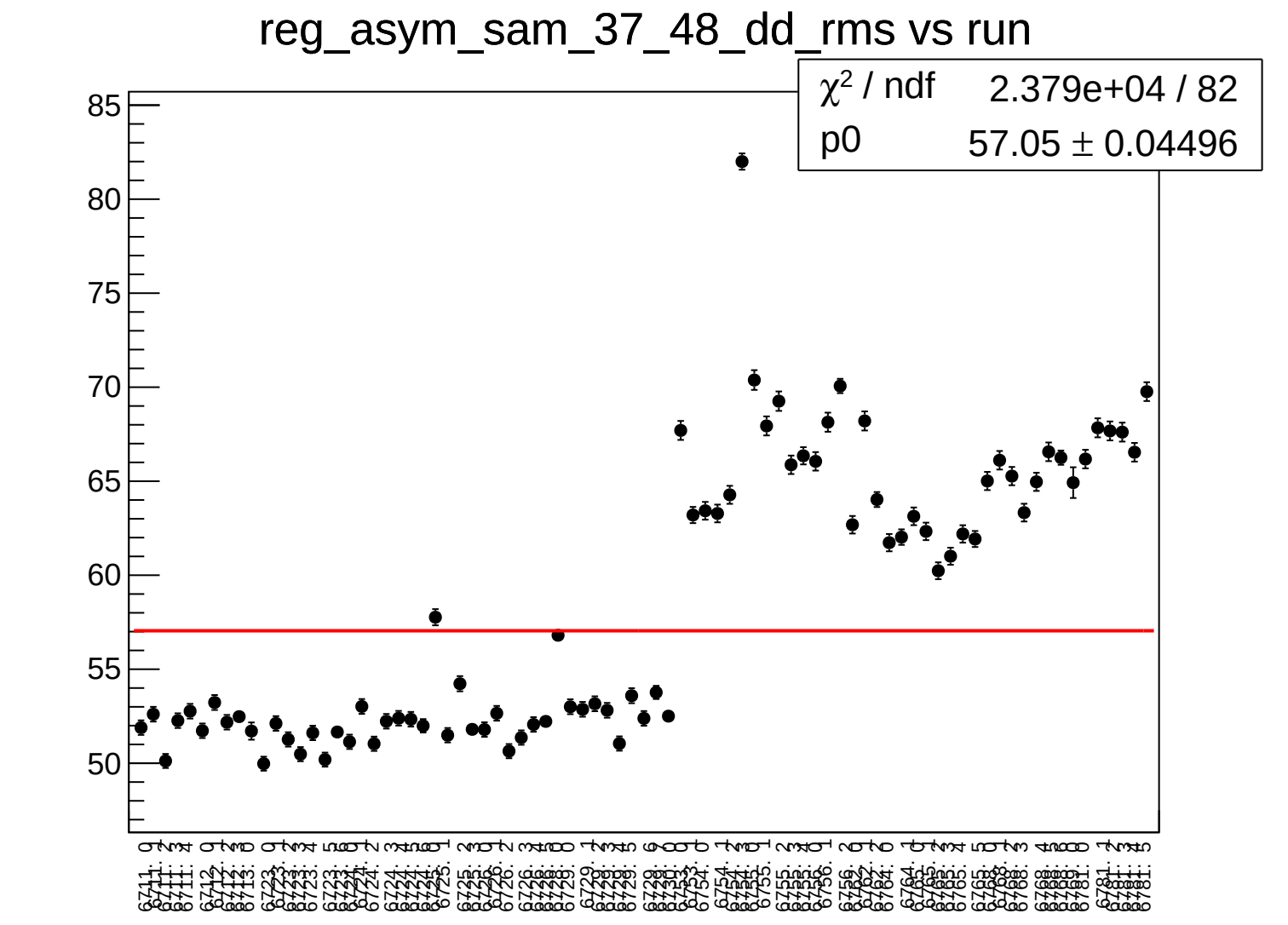

asym_sam_15_48_dd_mean vs run
χ² / ndf 100 / 82
p0 119.6 ± 437.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 35.48
Std Dev 68.62
3
2
1
0
−1
−2
−3

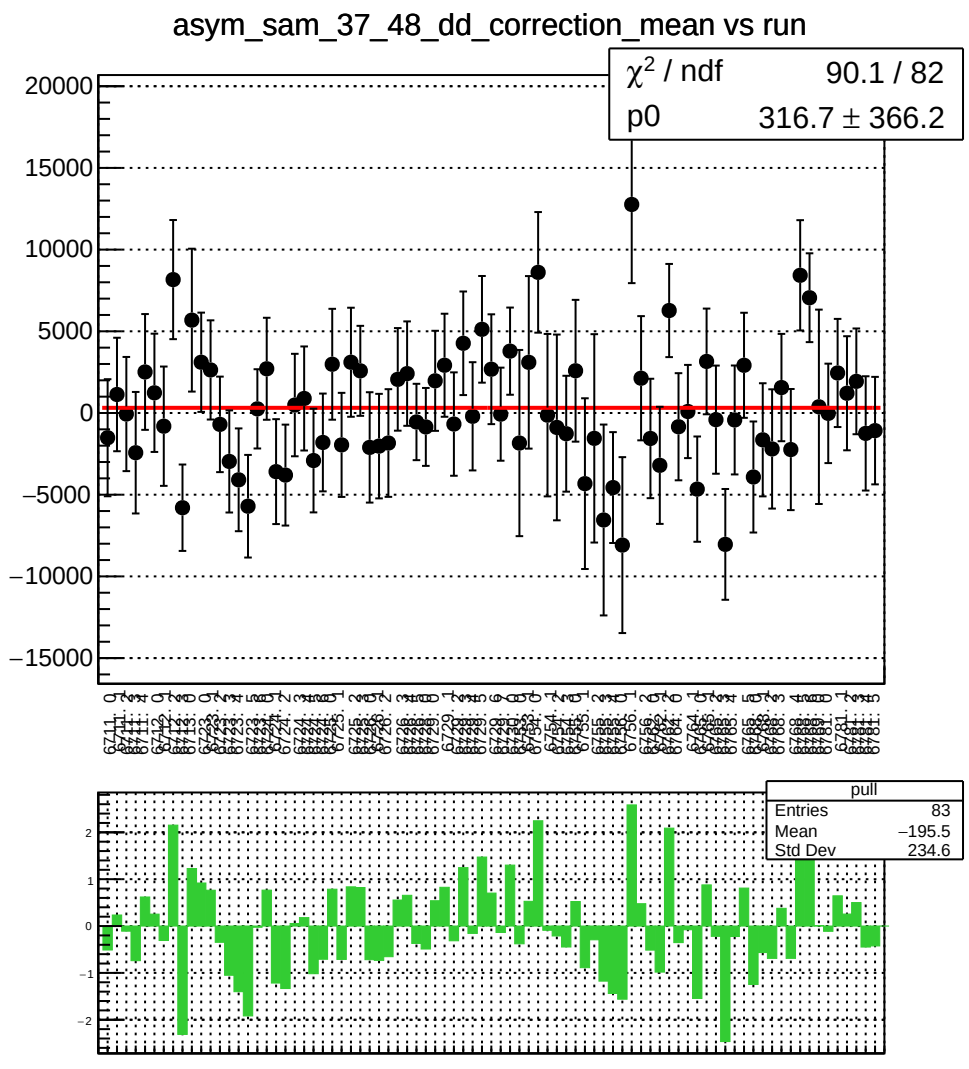

pull1D
Entries 83
Mean 0.01936
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

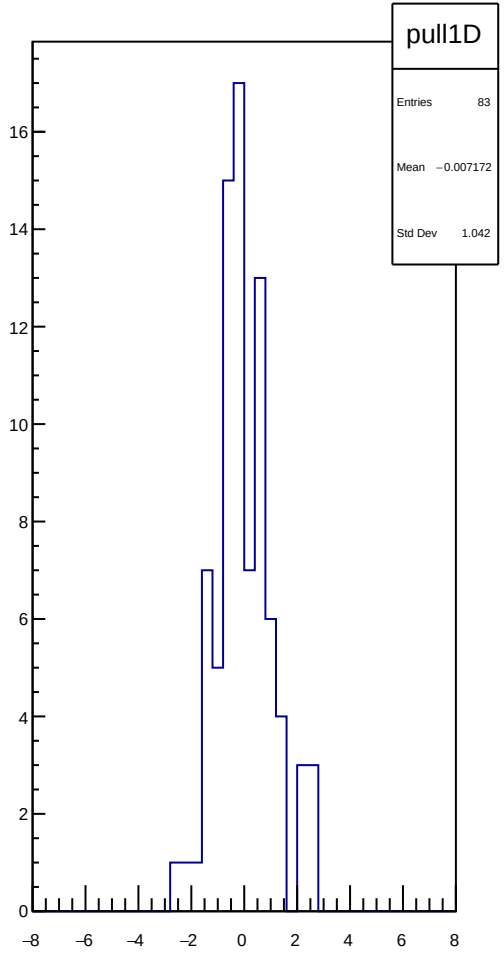

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.502e+04 / 82
p0 393.3 ± 0.3091
550
500
450
400
350

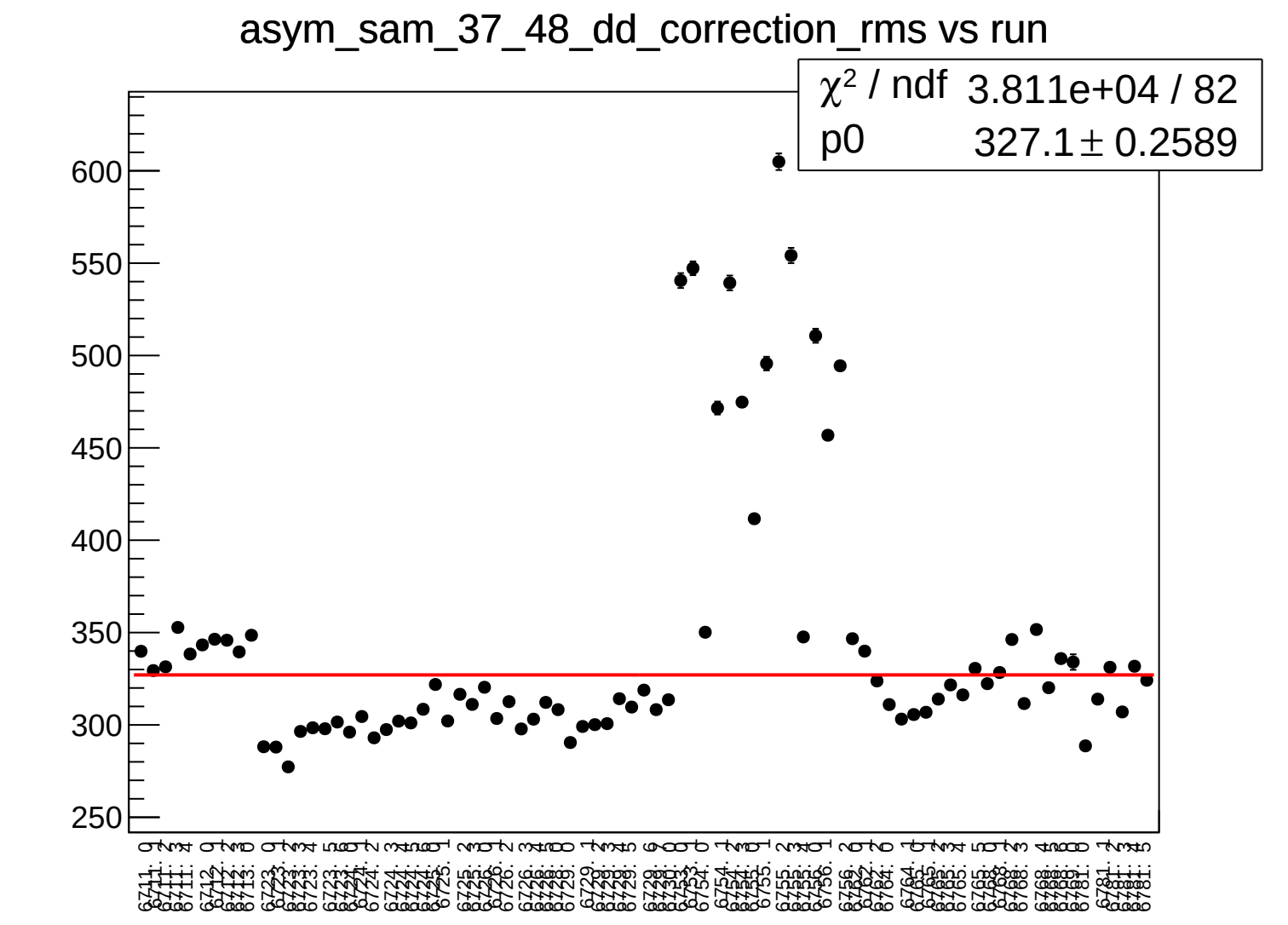

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 65.03 / 82
p0 −32.72 ± 63.58
pull
Entries 83
Mean −7170
Std Dev 7223

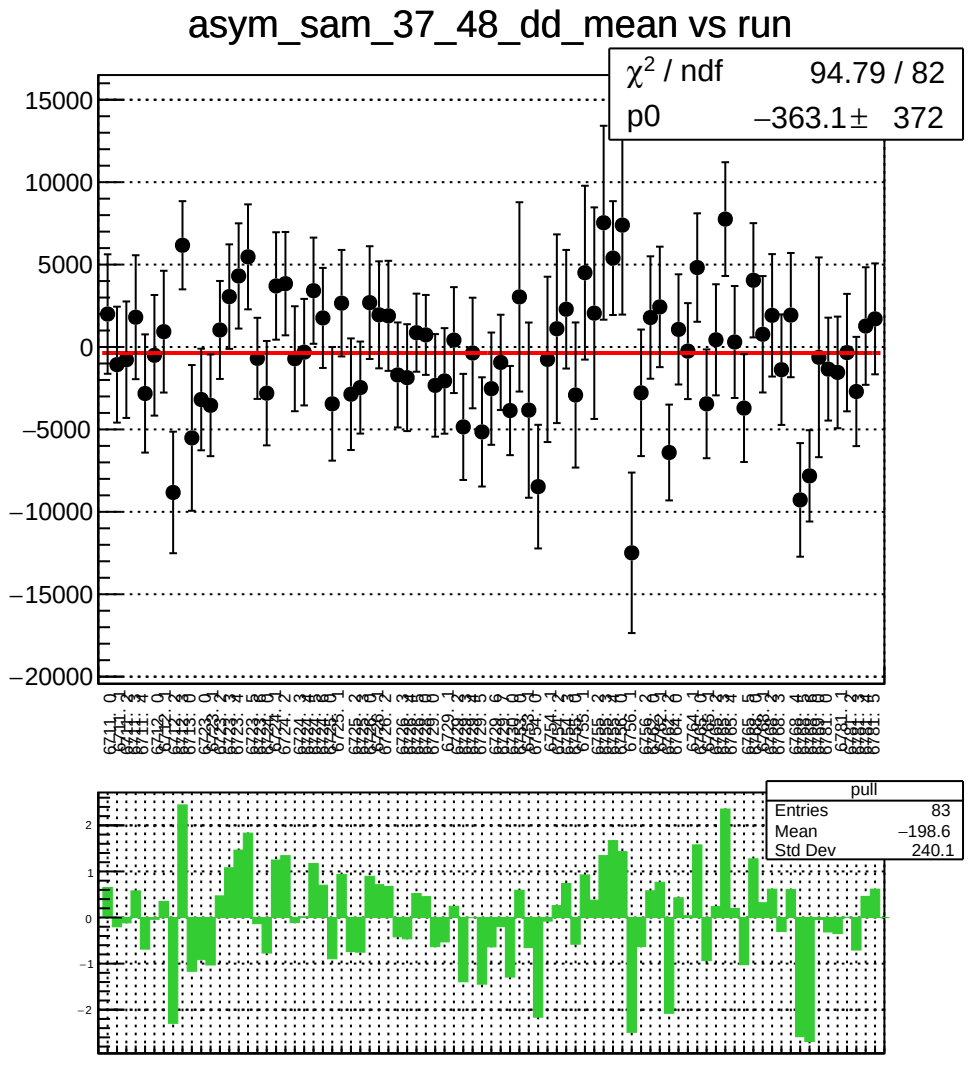

pull1D
Entries 83
Mean 0.0003006
Std Dev 0.8852

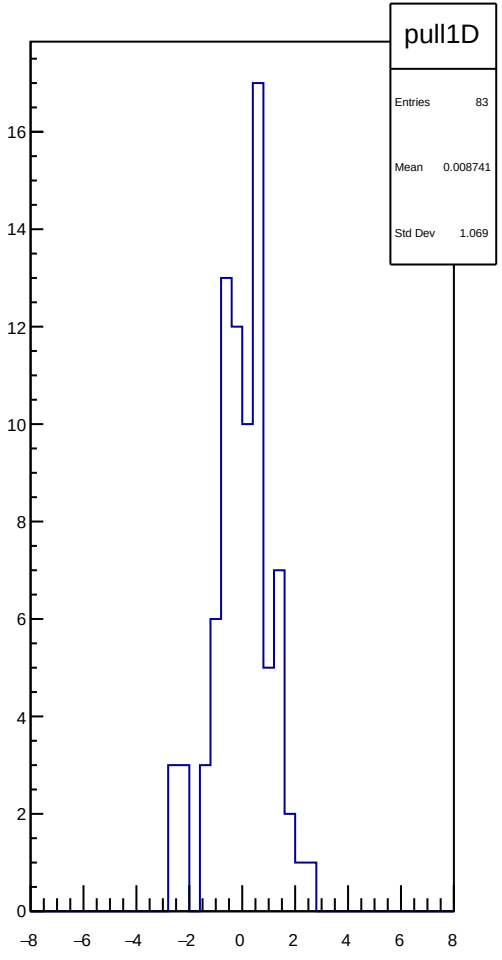

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 2.379e+04 / 82
p0 57.05 ± 0.04496
85
80
75
70
65
60
55
50

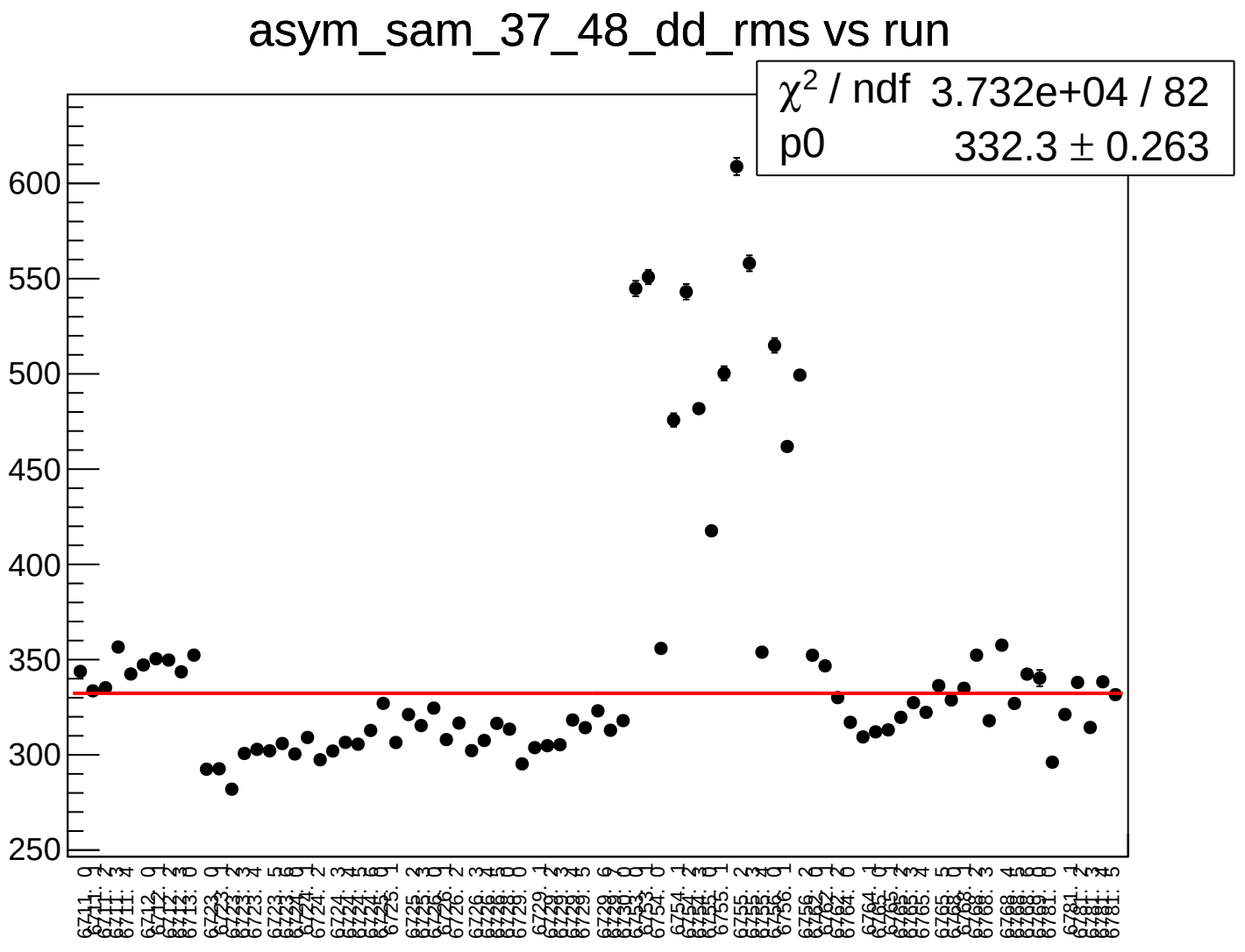

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 90.1 / 82
p0 316.7 ± 366.2
pull
Entries 83
Mean −195.5
Std Dev 234.6

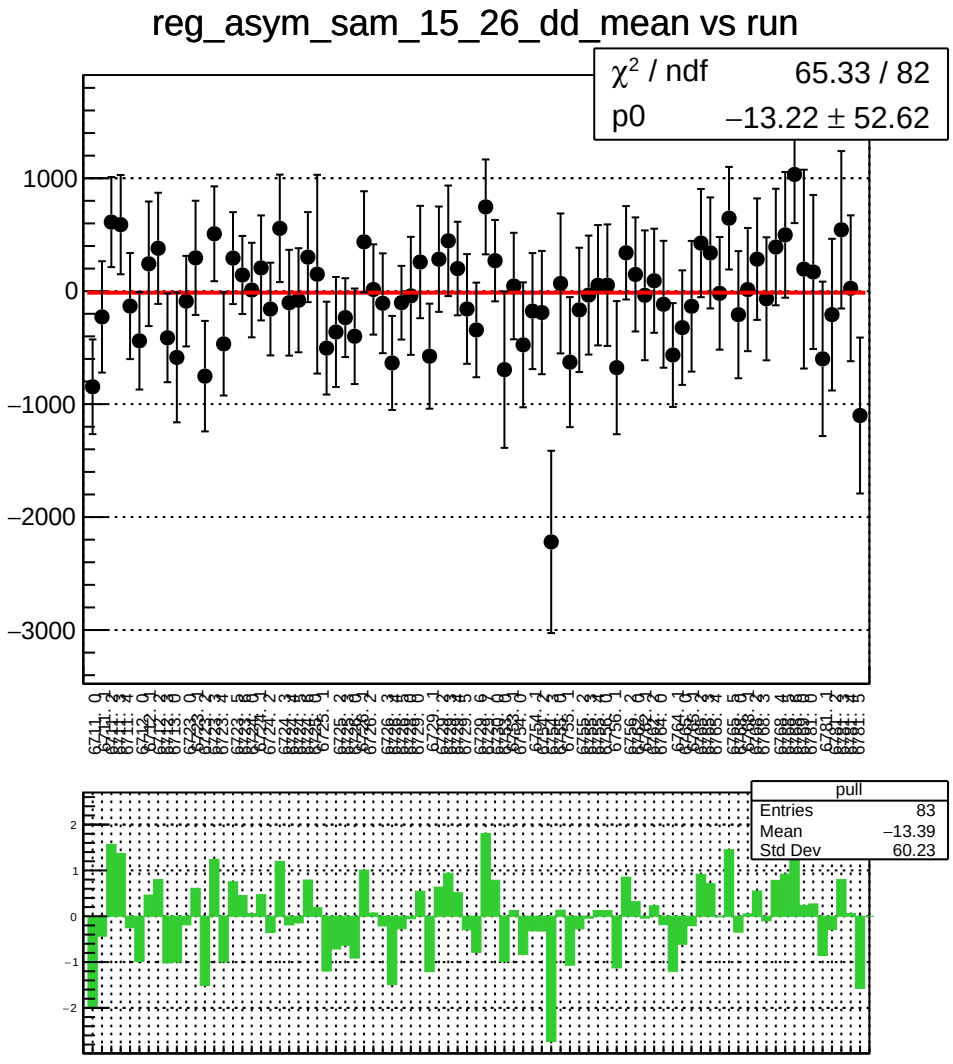

pull1D
Entries 83
Mean −0.007172
Std Dev 1.042

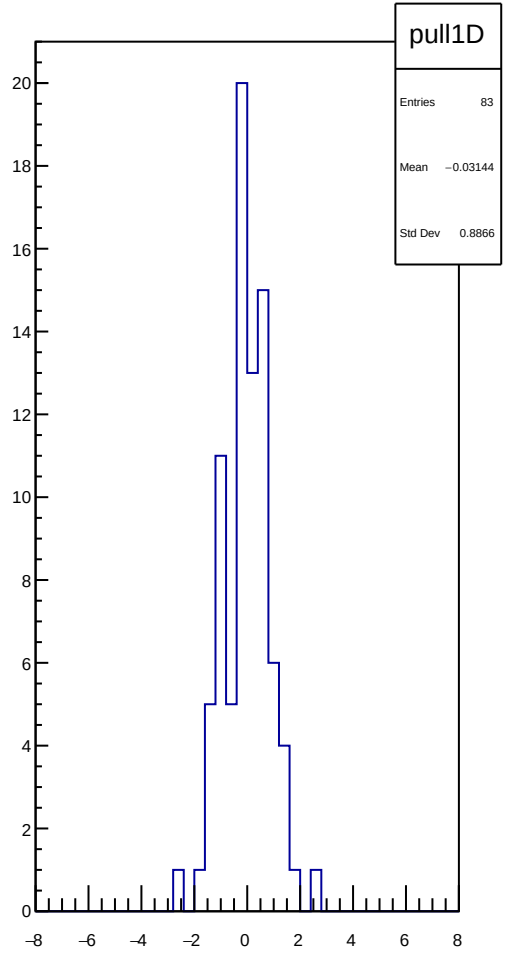

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 3.811e+04 / 82
p0 327.1 ± 0.2589
600
550
500
450
400
350
300
250

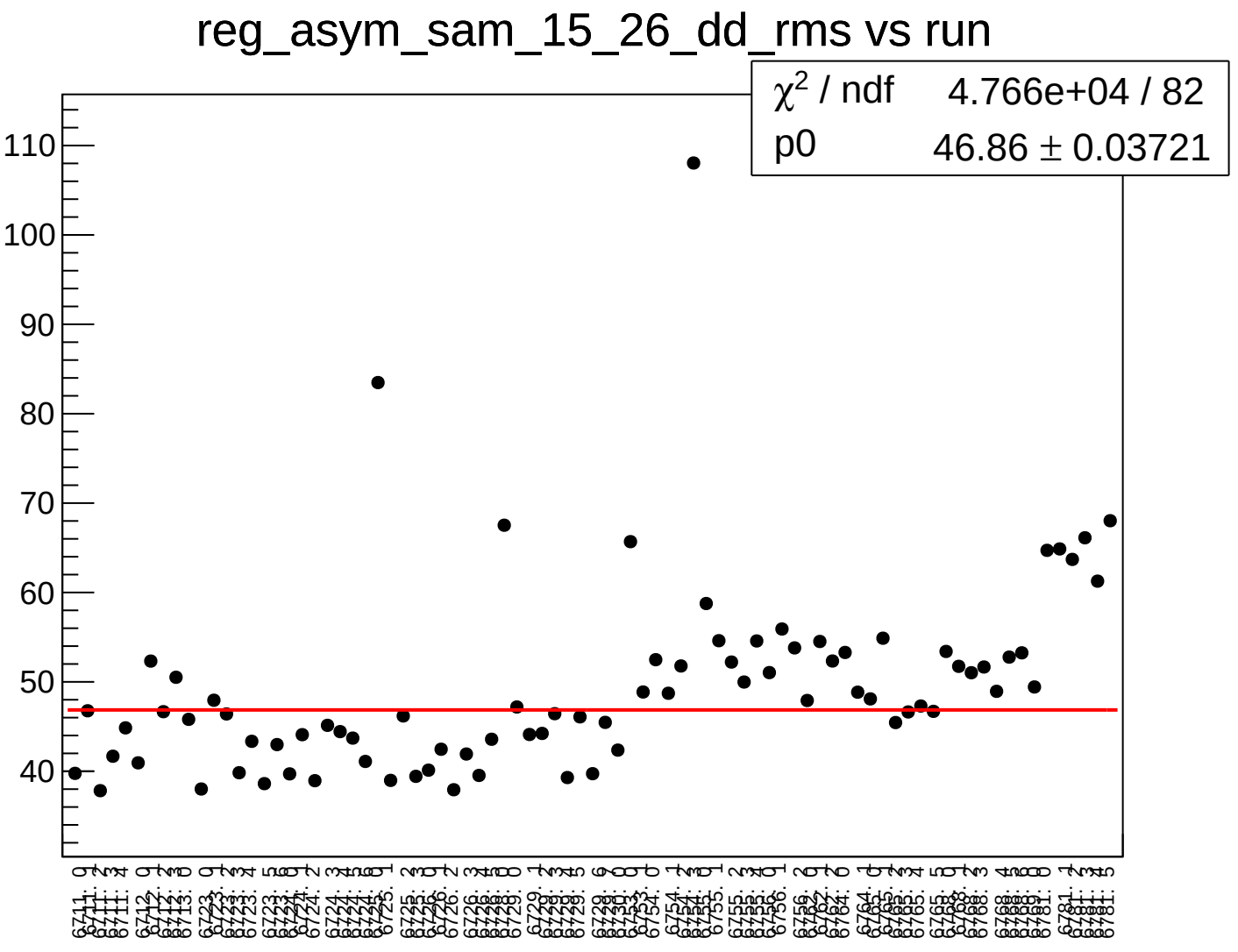

asym_sam_37_48_dd_mean vs run
χ² / ndf 94.79 / 82
p0 −363.1± 372
pull
Entries 83
Mean −198.6
Std Dev 240.1

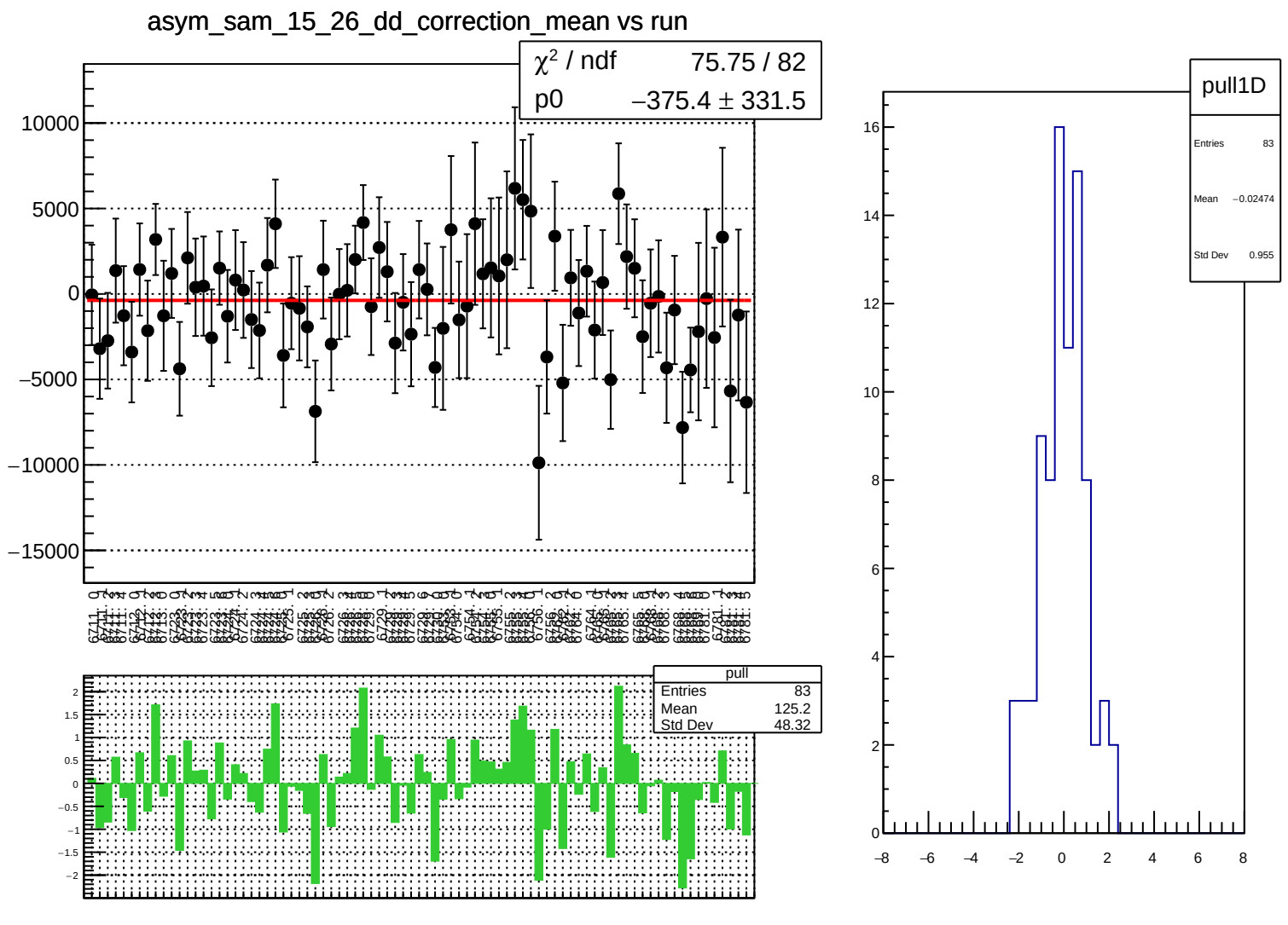

pull1D
Entries 83
Mean 0.008741
Std Dev 1.069

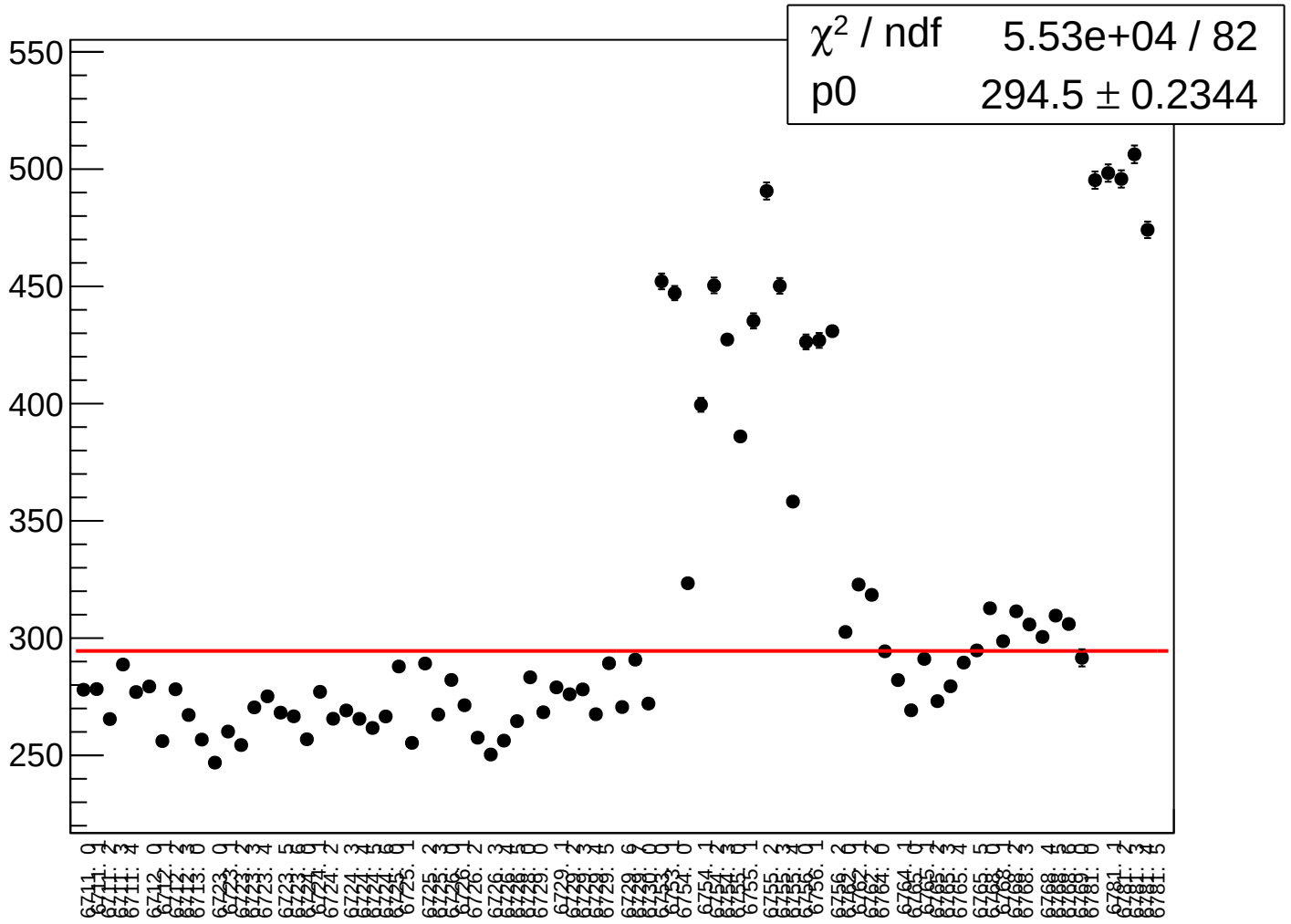

asym_sam_37_48_dd_rms vs run
χ^2 / ndf 3.732e+04 / 82
p0 332.3 ± 0.263
600
550
500
450
400
350
300
250

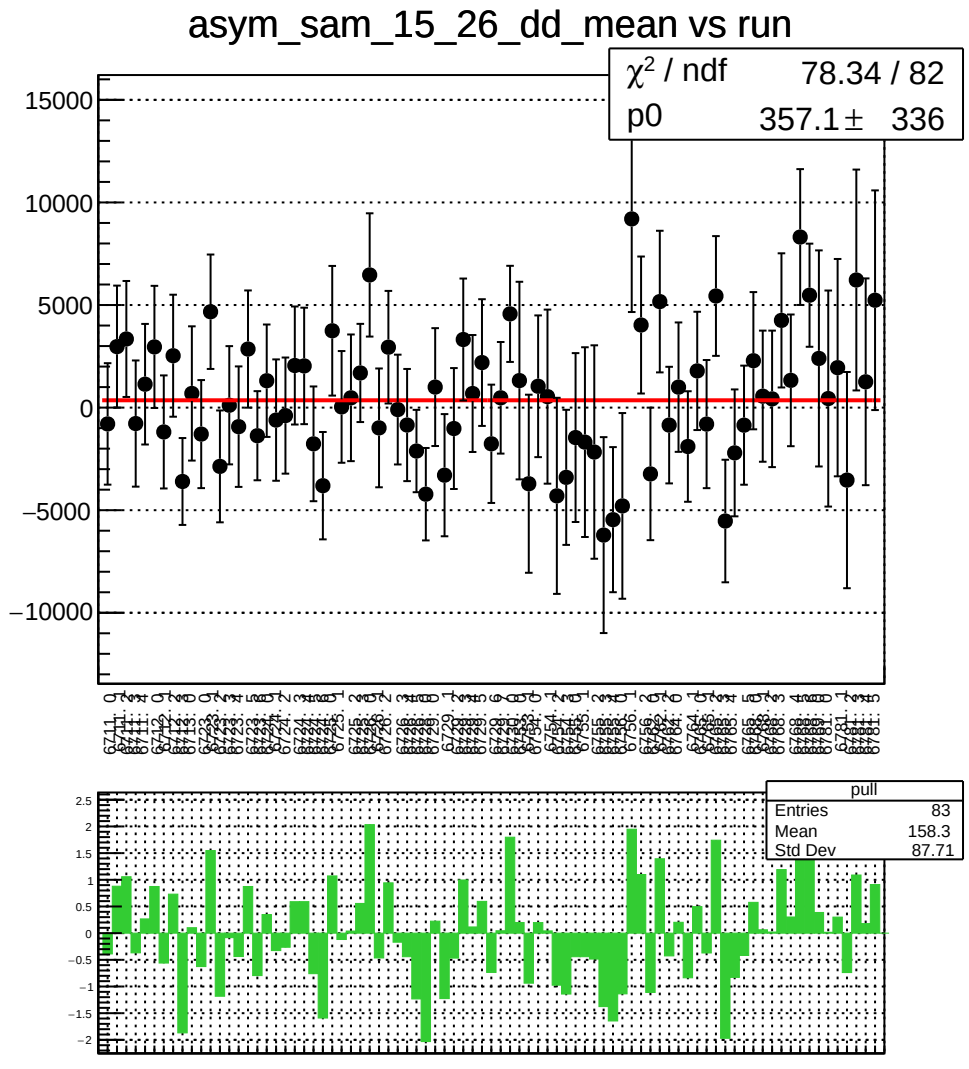

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 65.33 / 82
p0 −13.22 ± 52.62
1000
0
−1000
−2000
−3000
pull
Entries 83
Mean −13.39
Std Dev 60.23
2
1
0
−1
−2

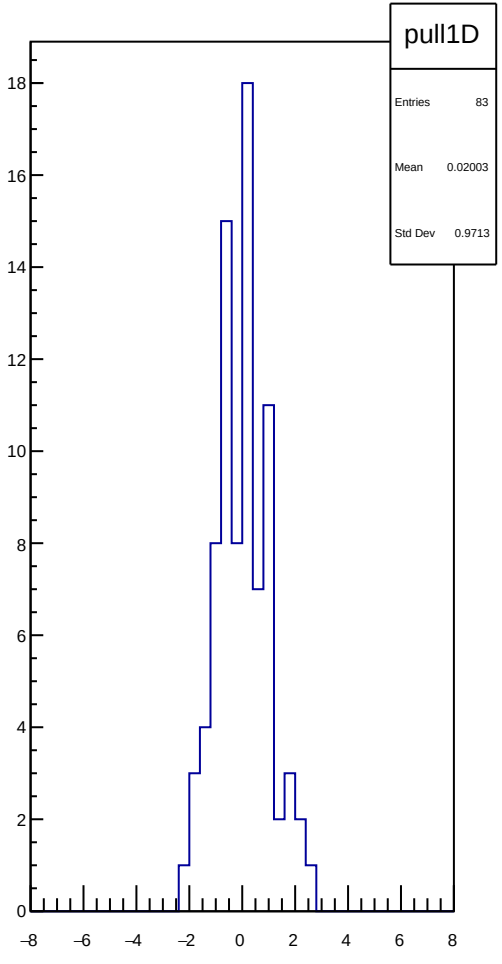

pull1D
Entries 83
Mean −0.03144
Std Dev 0.8866
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

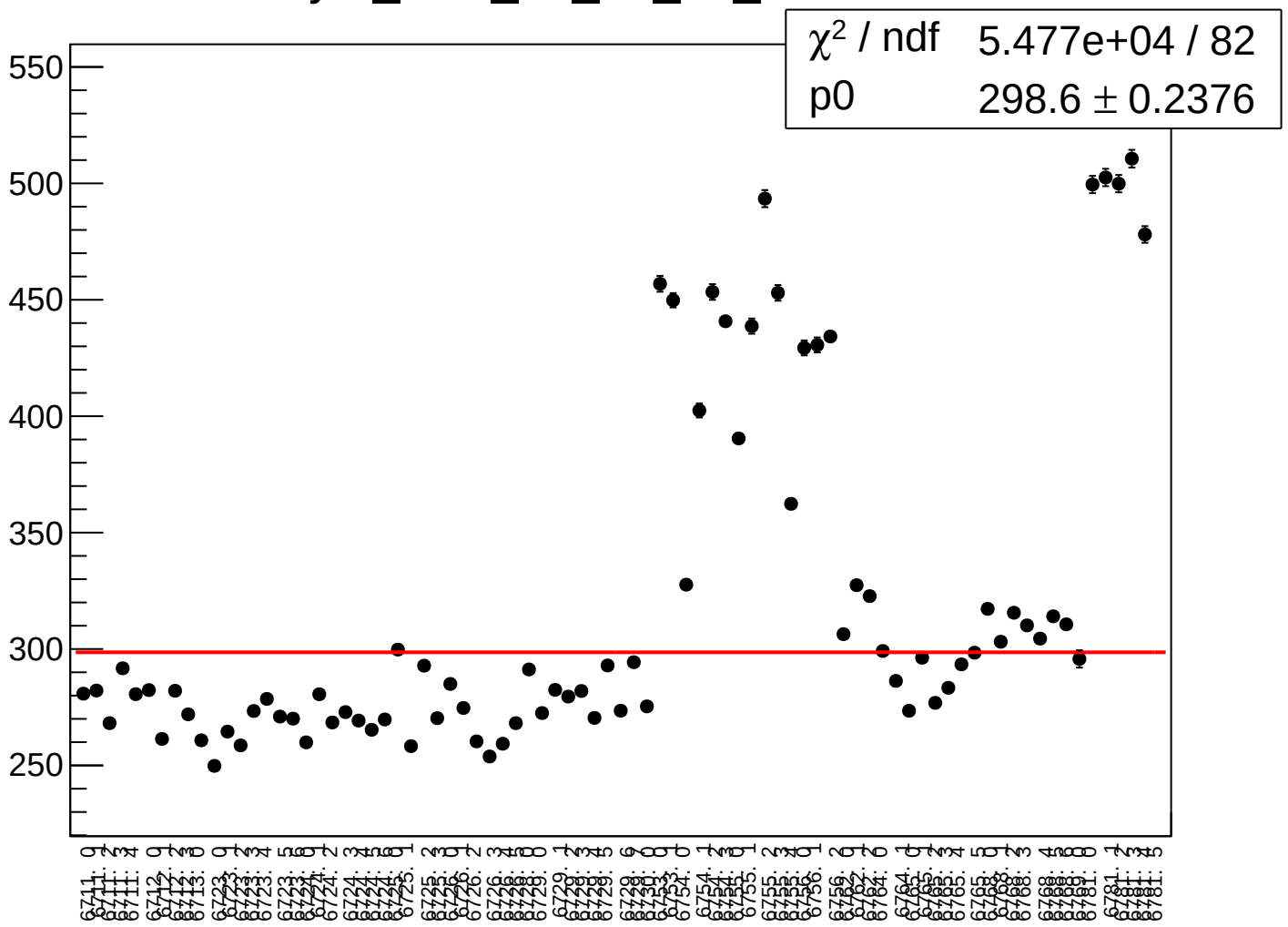

reg_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 4.766e+04 / 82
p0 46.86 ± 0.03721
110
100
90
80
70
60
50
40

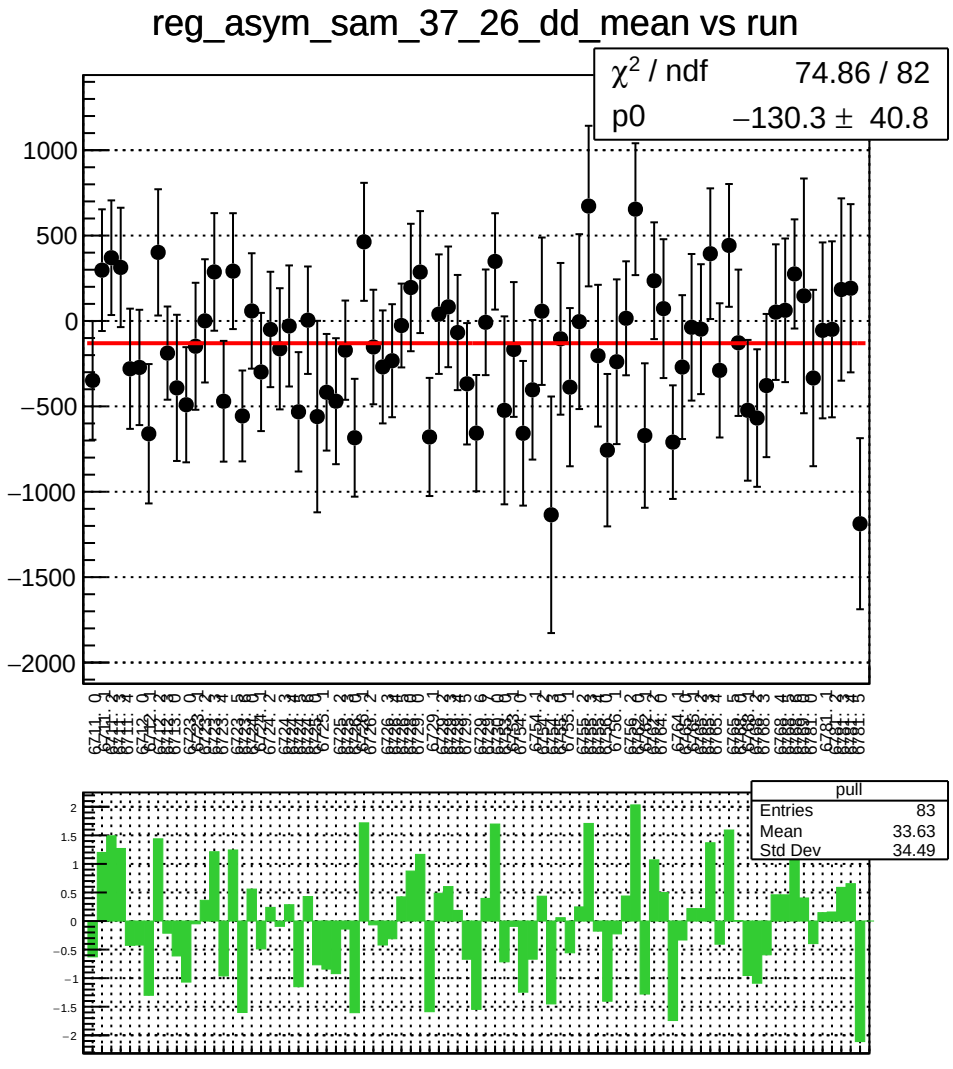

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 75.75 / 82
p0 −375.4 ± 331.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 125.2
Std Dev 48.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 83
Mean −0.02474
Std Dev 0.955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

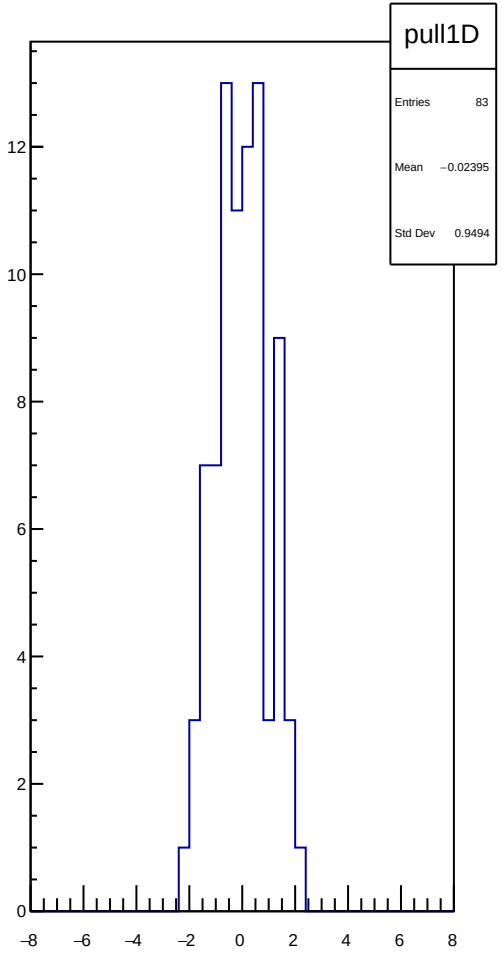

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 5.53e+04 / 82
p0 294.5 ± 0.2344
550
500
450
400
350
300
250

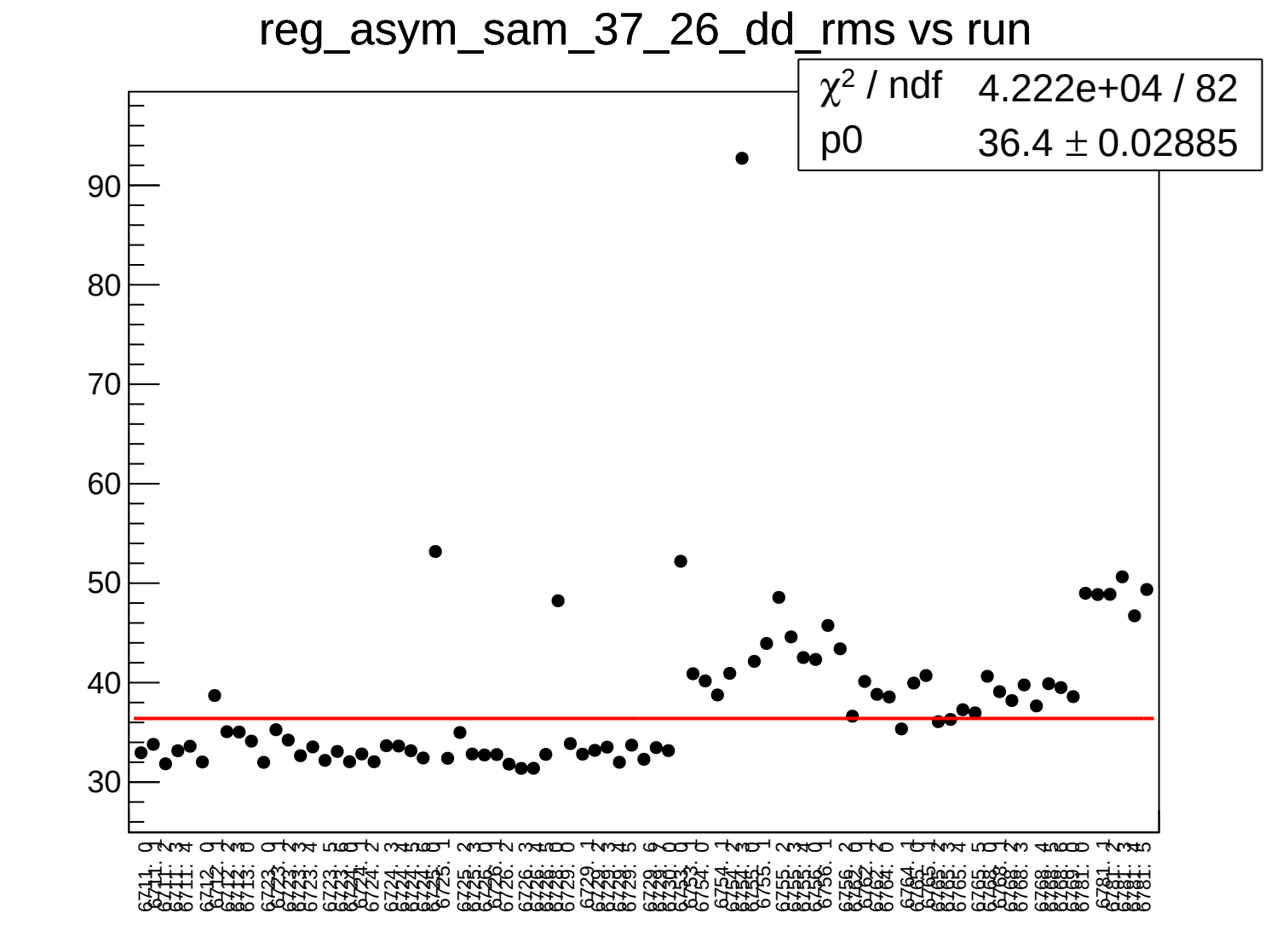

asym_sam_15_26_dd_mean vs run
χ² / ndf 78.34 / 82
p0 357.1 ± 336
pull
Entries 83
Mean 158.3
Std Dev 87.71

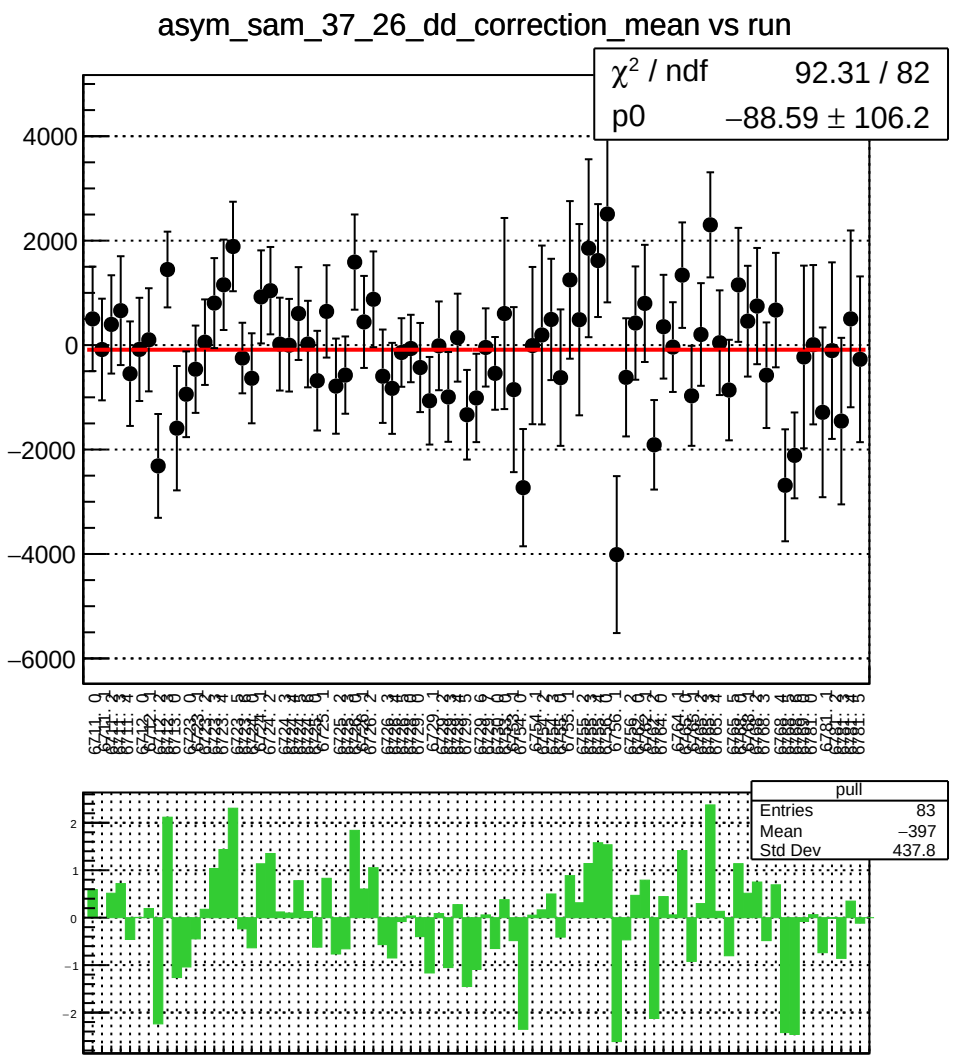

pull1D
Entries 83
Mean 0.02003
Std Dev 0.9713

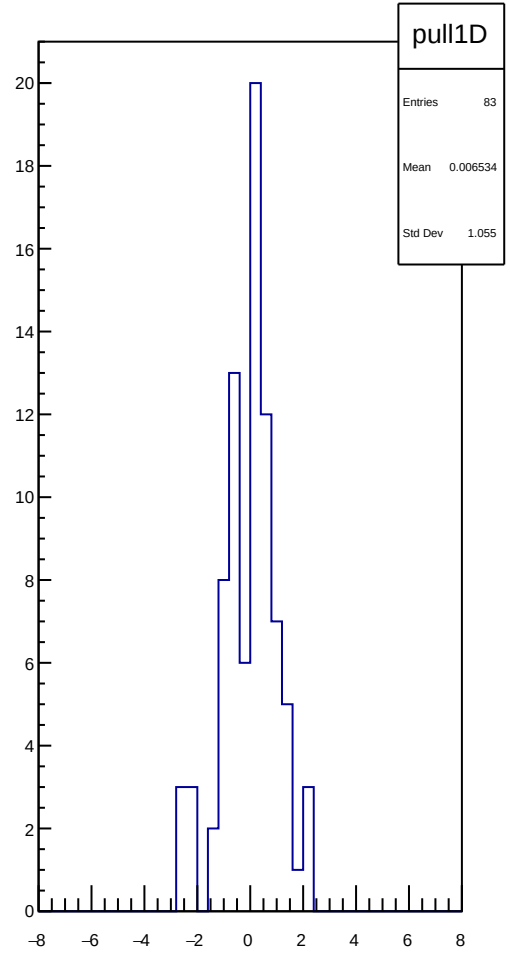

asym_sam_15_26_dd_rms vs run
χ² / ndf 5.477e+04 / 82
p0 298.6 ± 0.2376
550
500
450
400
350
300
250

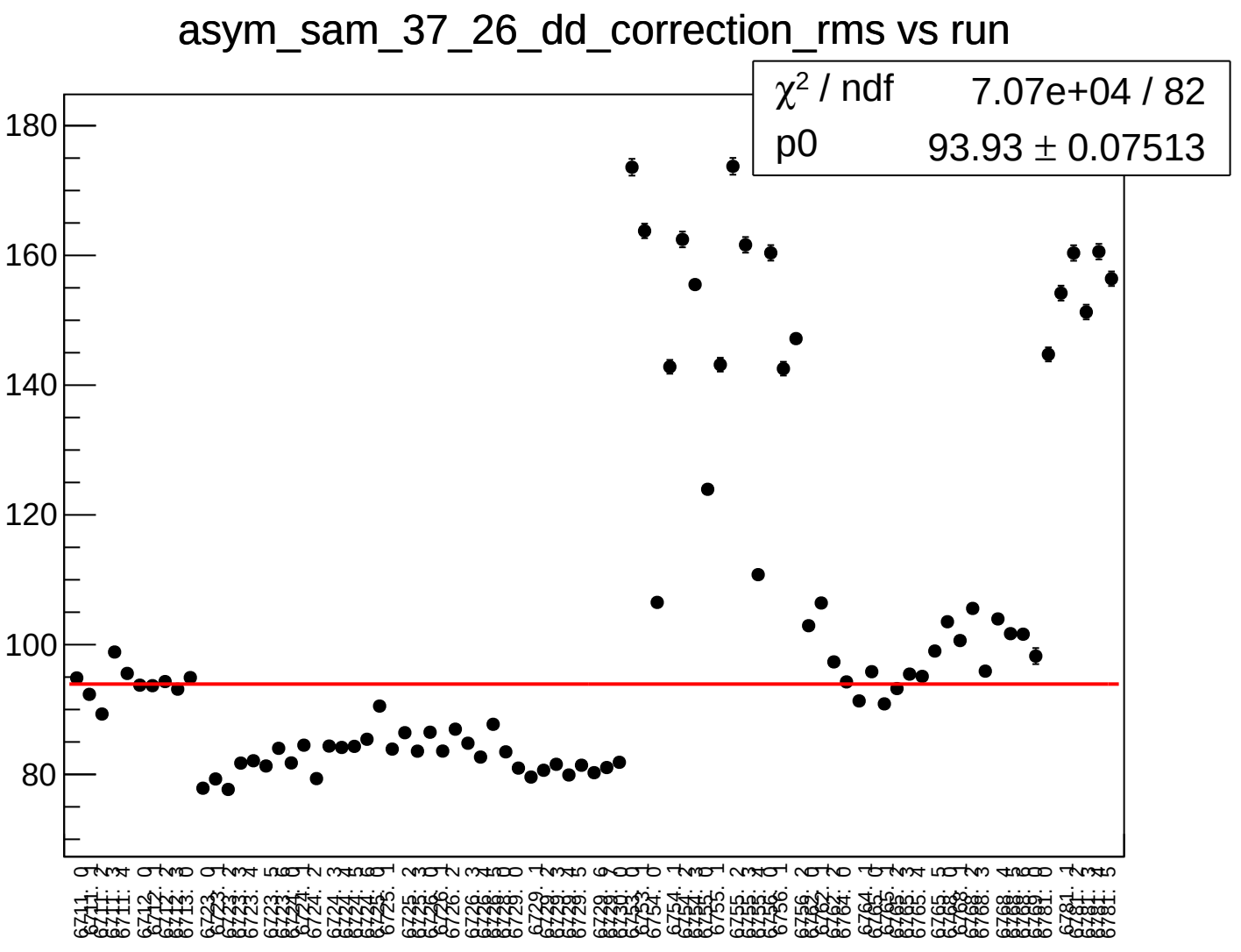

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 74.86 / 82
p0 −130.3 ± 40.8
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 83
Mean 33.63
Std Dev 34.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

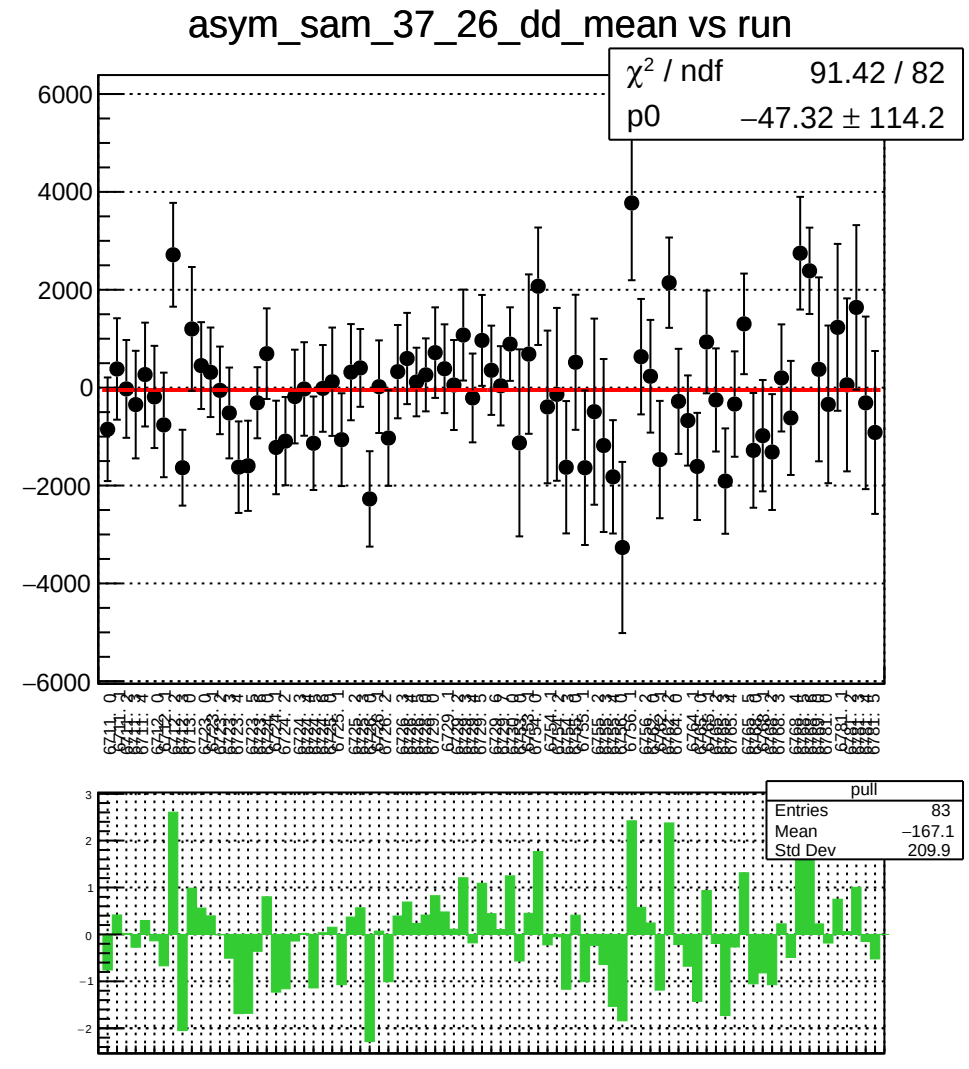

pull1D
Entries 83
Mean −0.02395
Std Dev 0.9494
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

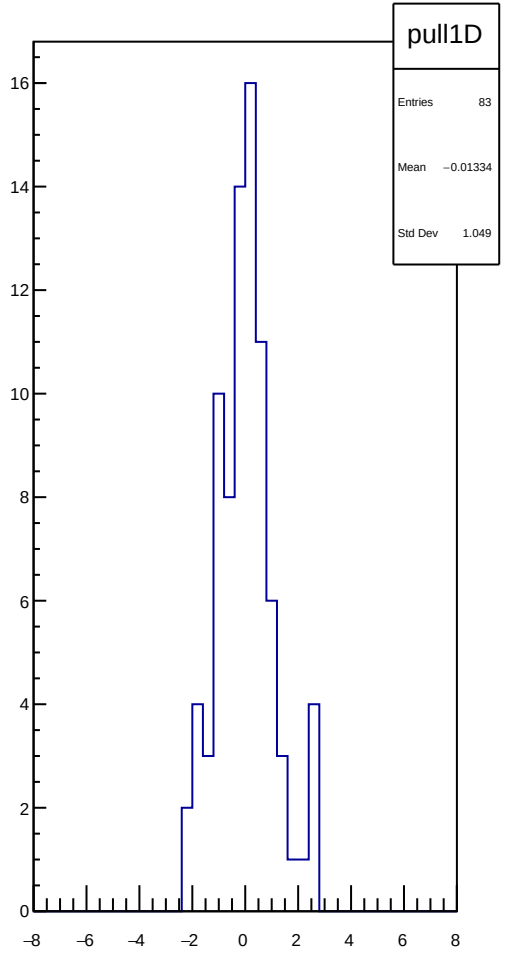

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 4.222e+04 / 82
p0 36.4 ± 0.02885
90
80
70
60
50
40
30

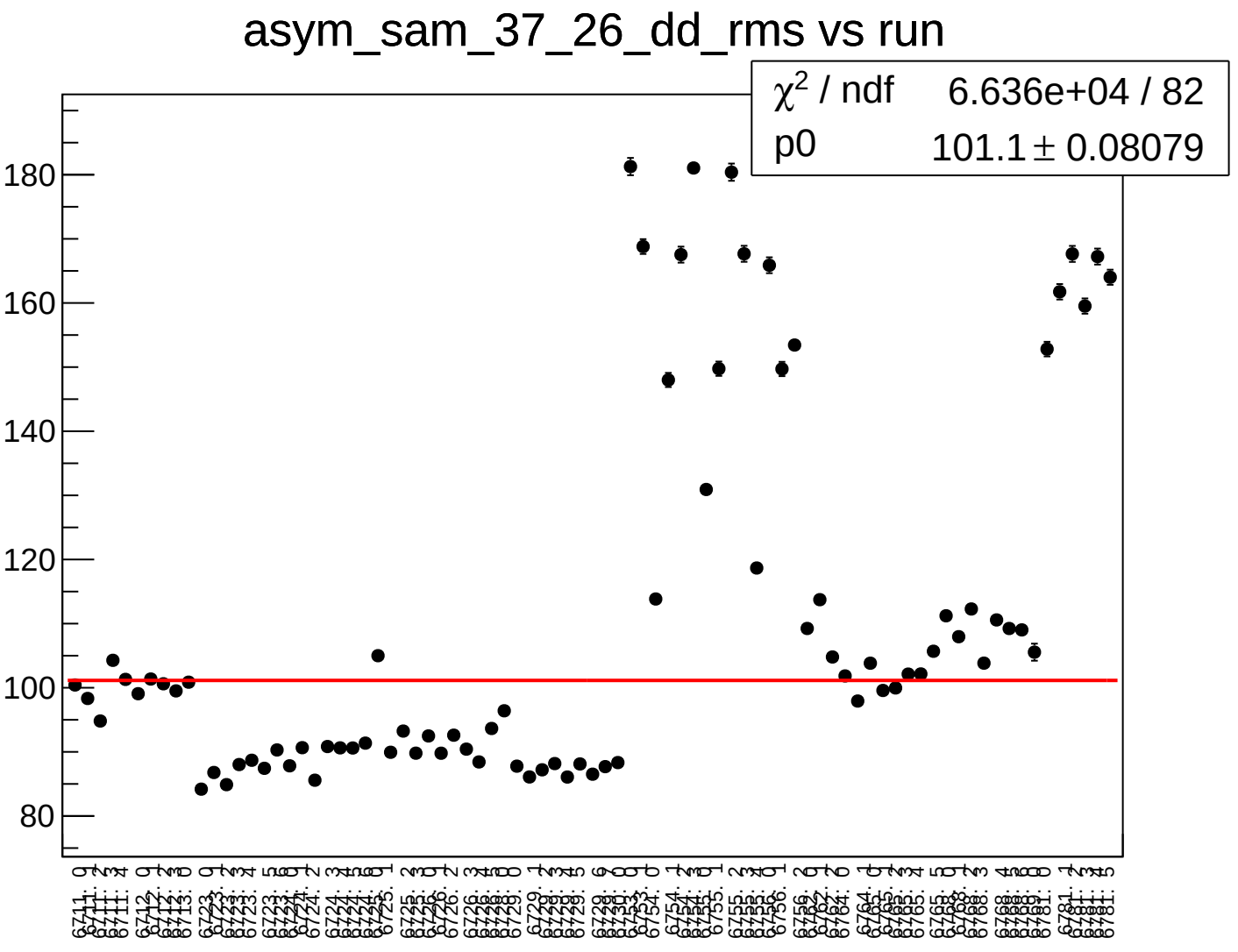

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 92.31 / 82
p0 −88.59 ± 106.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean −397
Std Dev 437.8
2
1
0
−1
−2

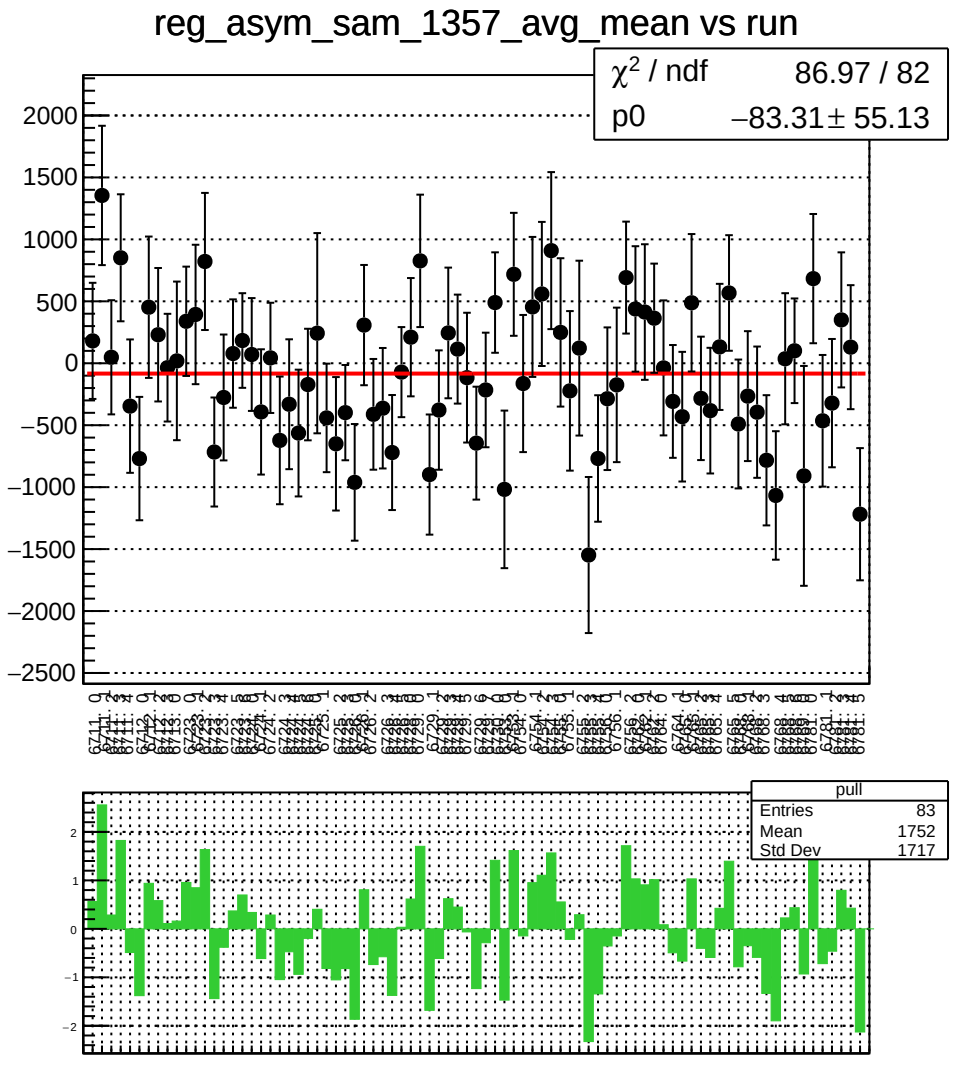

pull1D
Entries 83
Mean 0.006534
Std Dev 1.055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

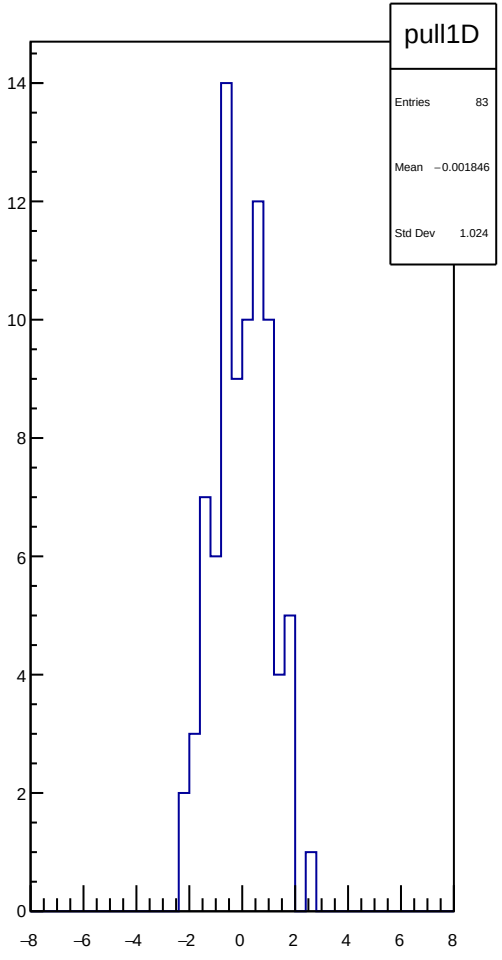

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 7.07e+04 / 82
p0 93.93 ± 0.07513
180
160
140
120
100
80

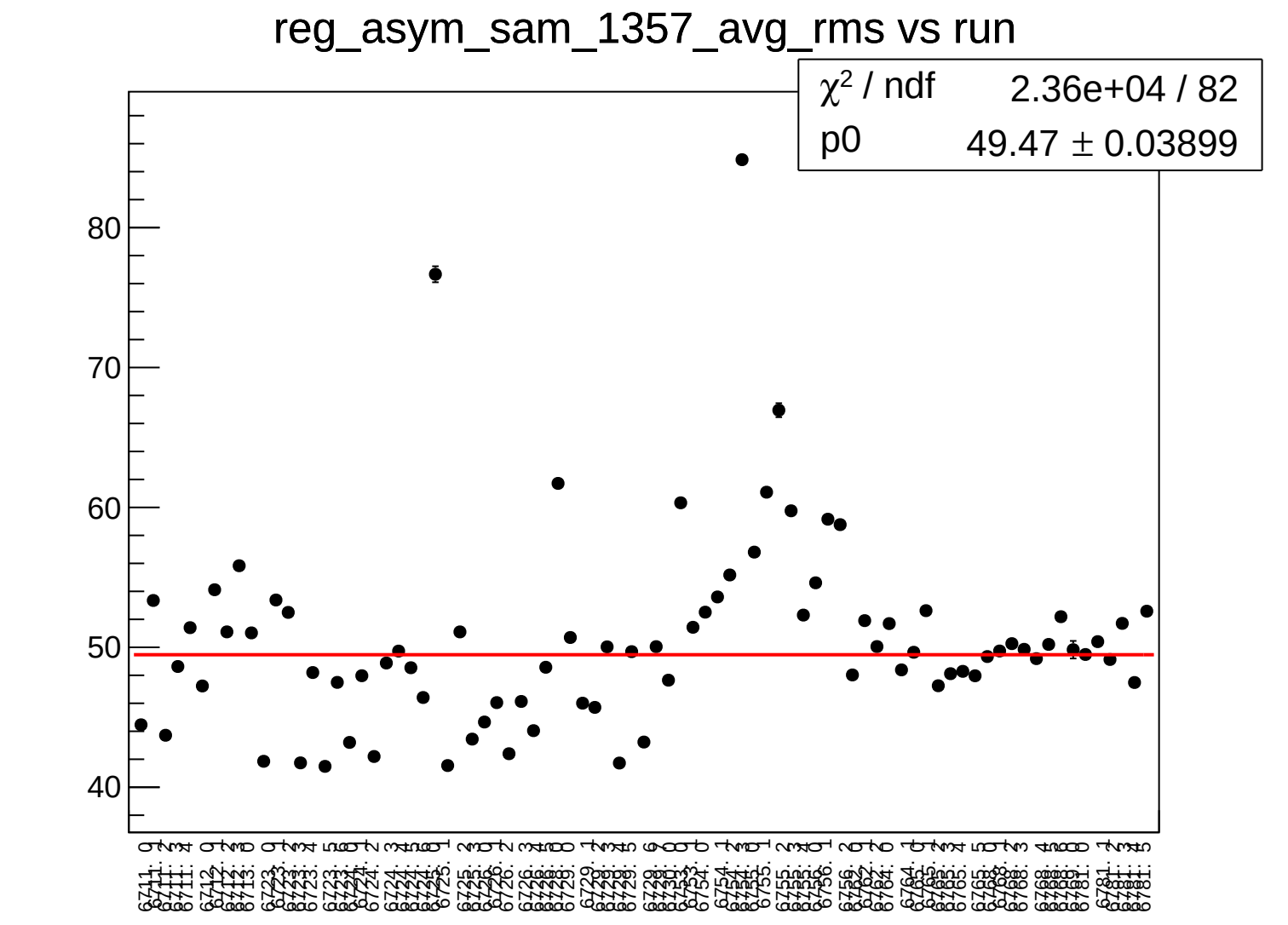

asym_sam_37_26_dd_mean vs run
χ² / ndf 91.42 / 82
p0 −47.32 ± 114.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean −167.1
Std Dev 209.9
3
2
1
0
−1
−2

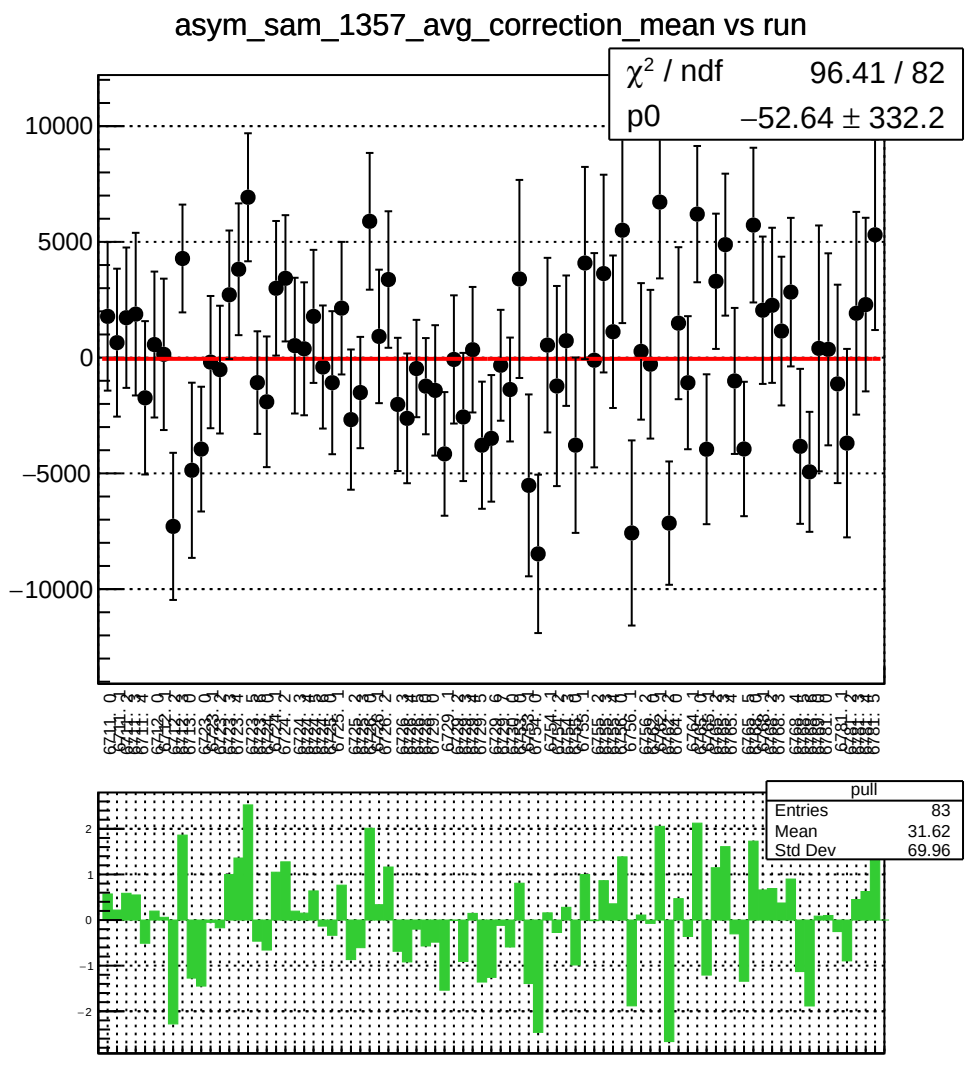

pull1D
Entries 83
Mean −0.01334
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

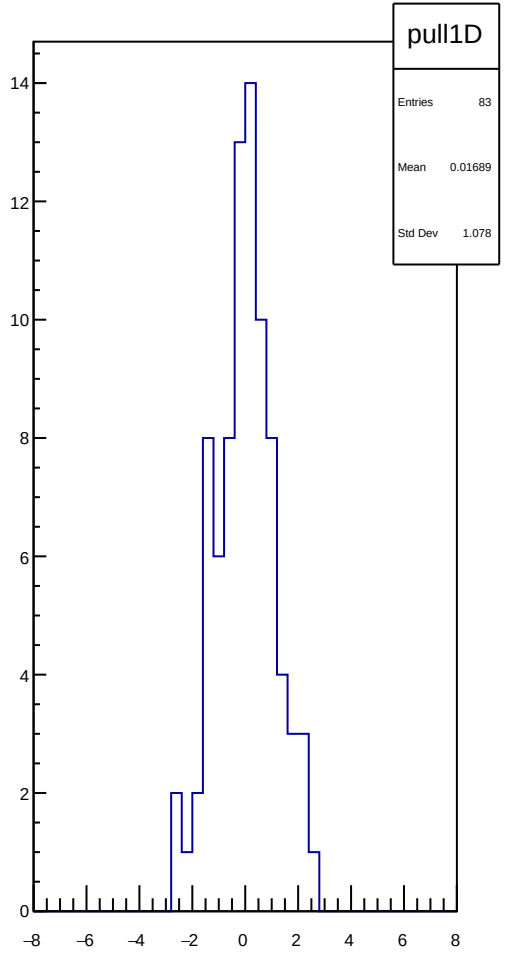

asym_sam_37_26_dd_rms vs run
χ^2 / ndf 6.636e+04 / 82
p0 101.1 ± 0.08079
180
160
140
120
100
80

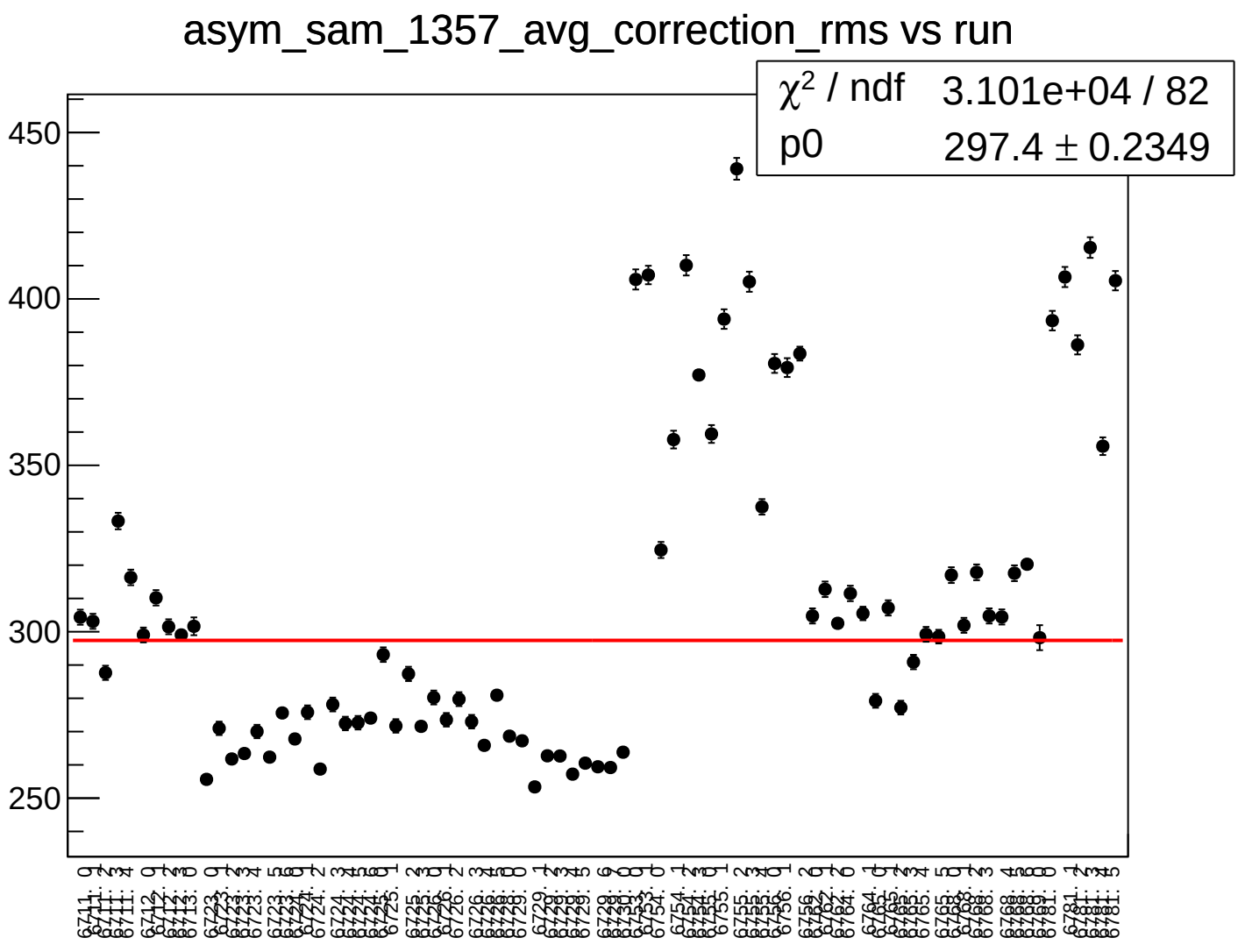

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 86.97 / 82
p0 −83.31 ± 55.13
pull
Entries 83
Mean 1752
Std Dev 1717

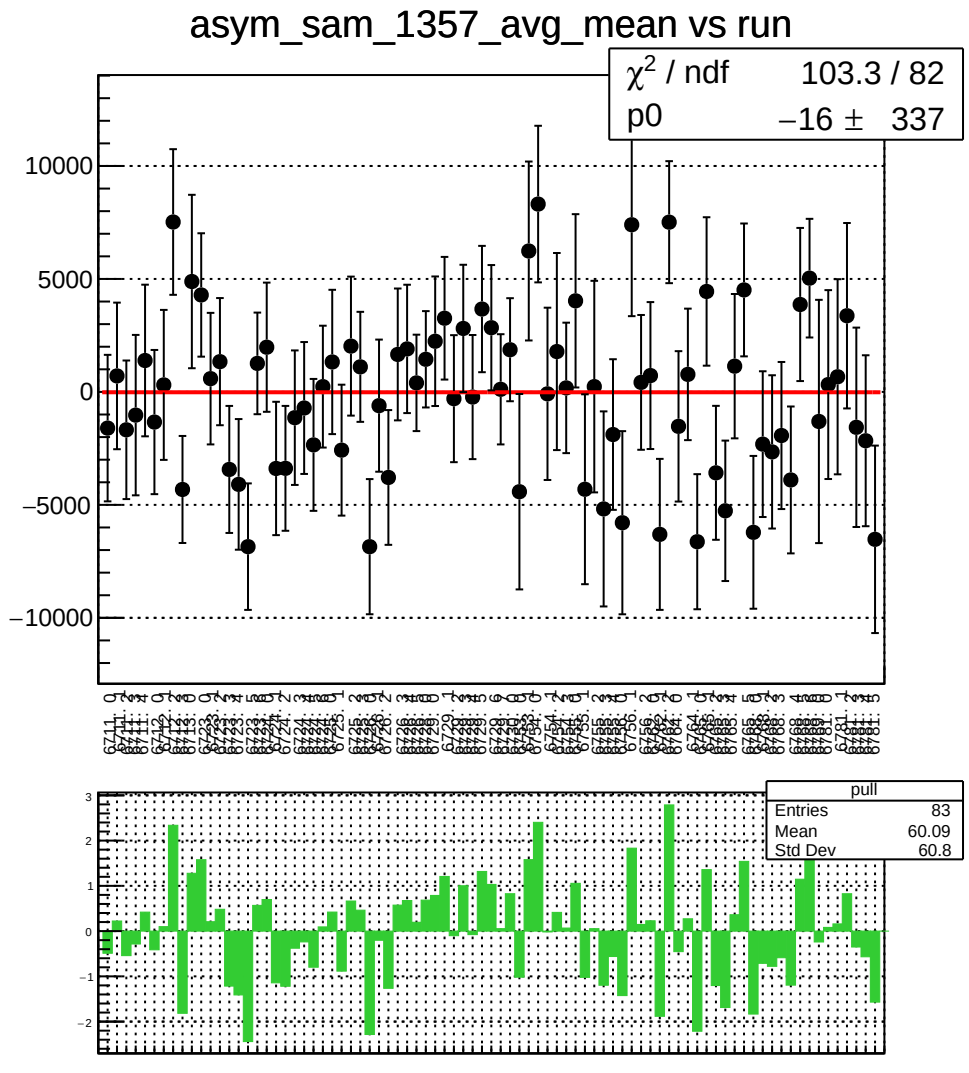

pull1D
Entries 83
Mean −0.001846
Std Dev 1.024

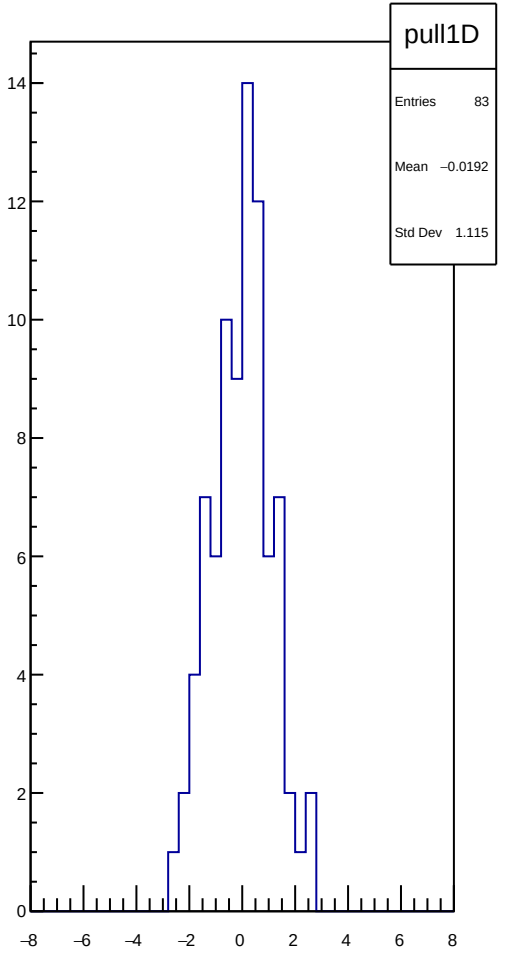

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.36e+04 / 82
p0 49.47 ± 0.03899
80
70
60
50
40

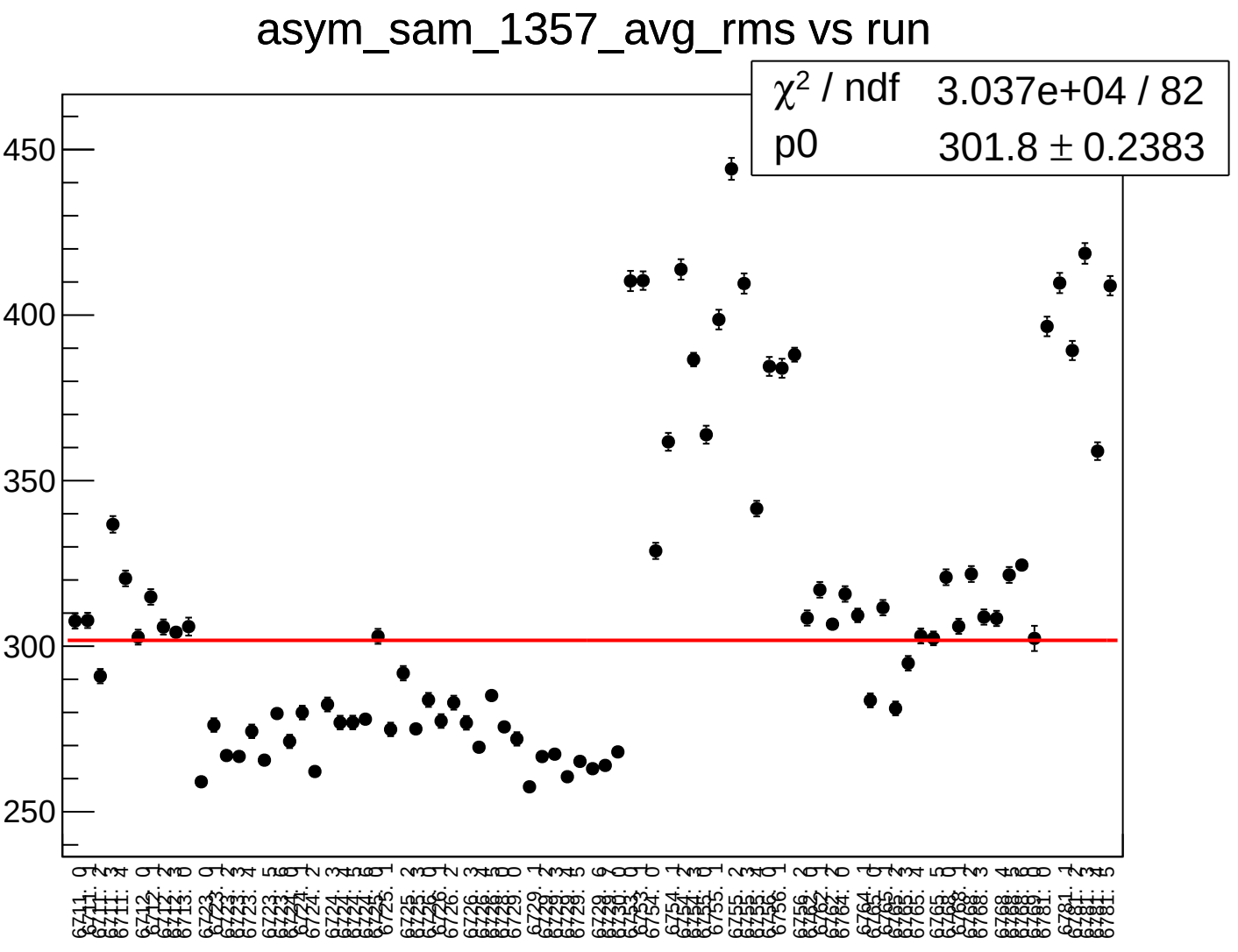

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 96.41 / 82
p0 −52.64 ± 332.2
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 31.62
Std Dev 69.96
2
1
0
−1
−2

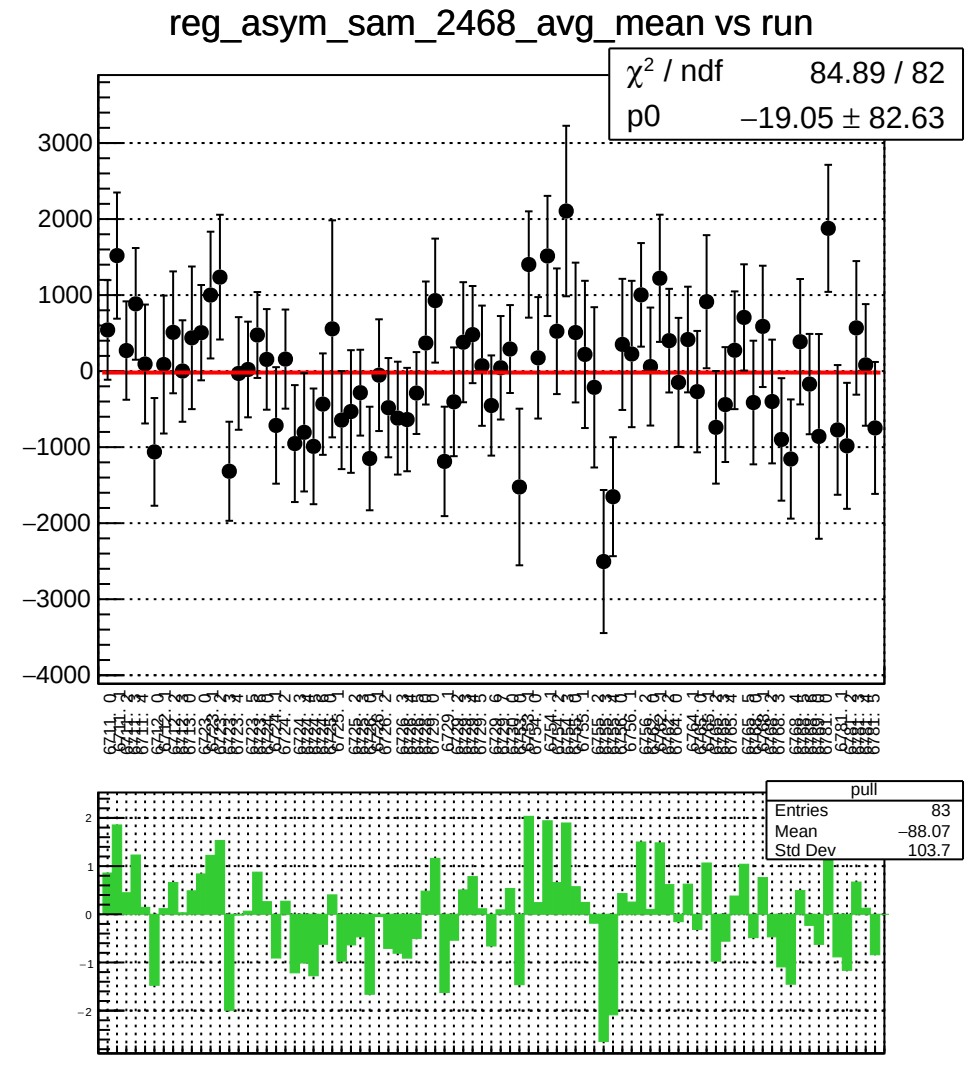

pull1D
Entries 83
Mean 0.01689
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

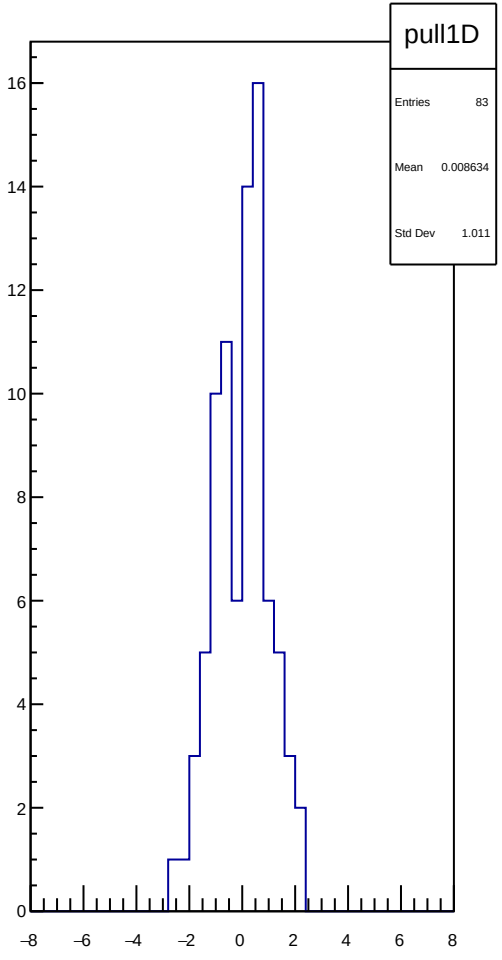

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 3.101e+04 / 82
p0 297.4 ± 0.2349
450
400
350
300
250

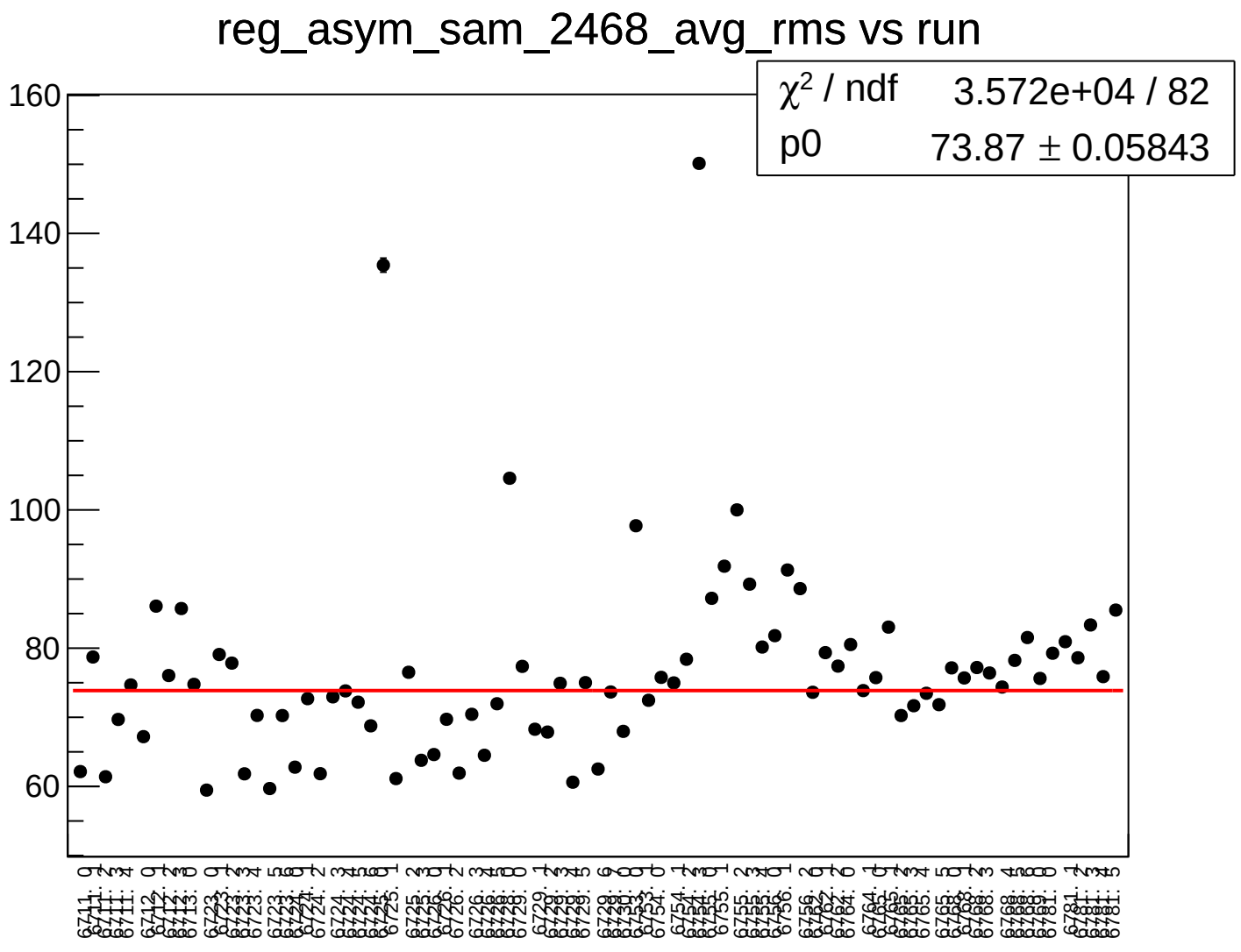

asym_sam_1357_avg_mean vs run
χ² / ndf 103.3 / 82
p0 −16 ± 337
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 60.09
Std Dev 60.8
3
2
1
0
−1
−2

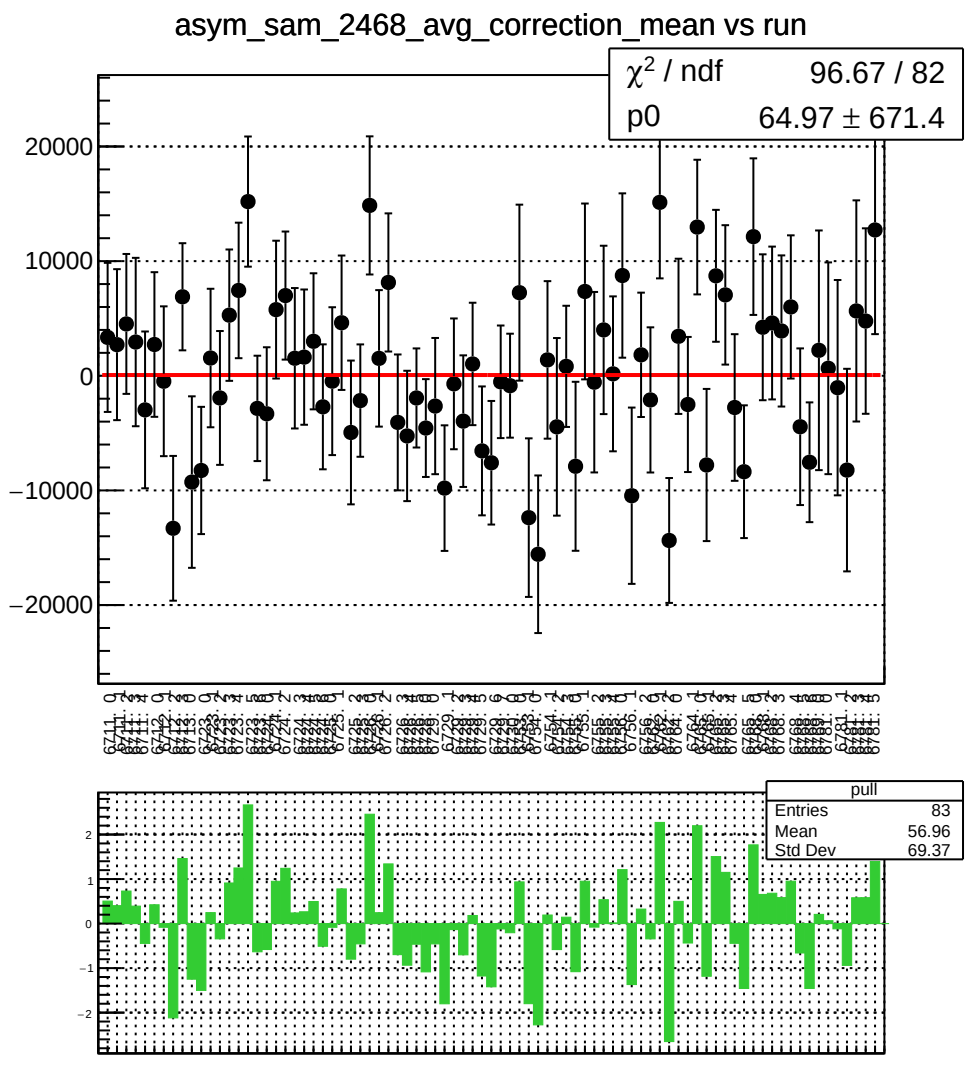

pull1D
Entries 83
Mean −0.0192
Std Dev 1.115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

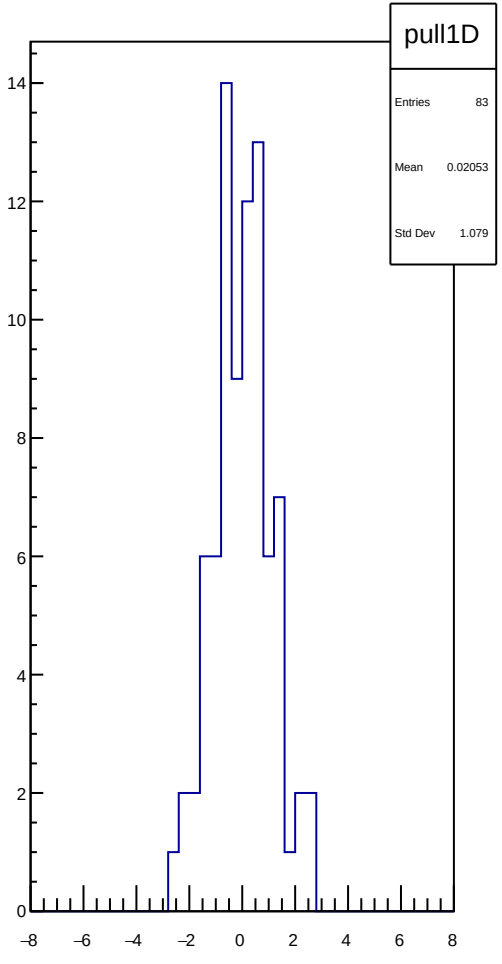

asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.037e+04 / 82
p0 301.8 ± 0.2383
450
400
350
300
250

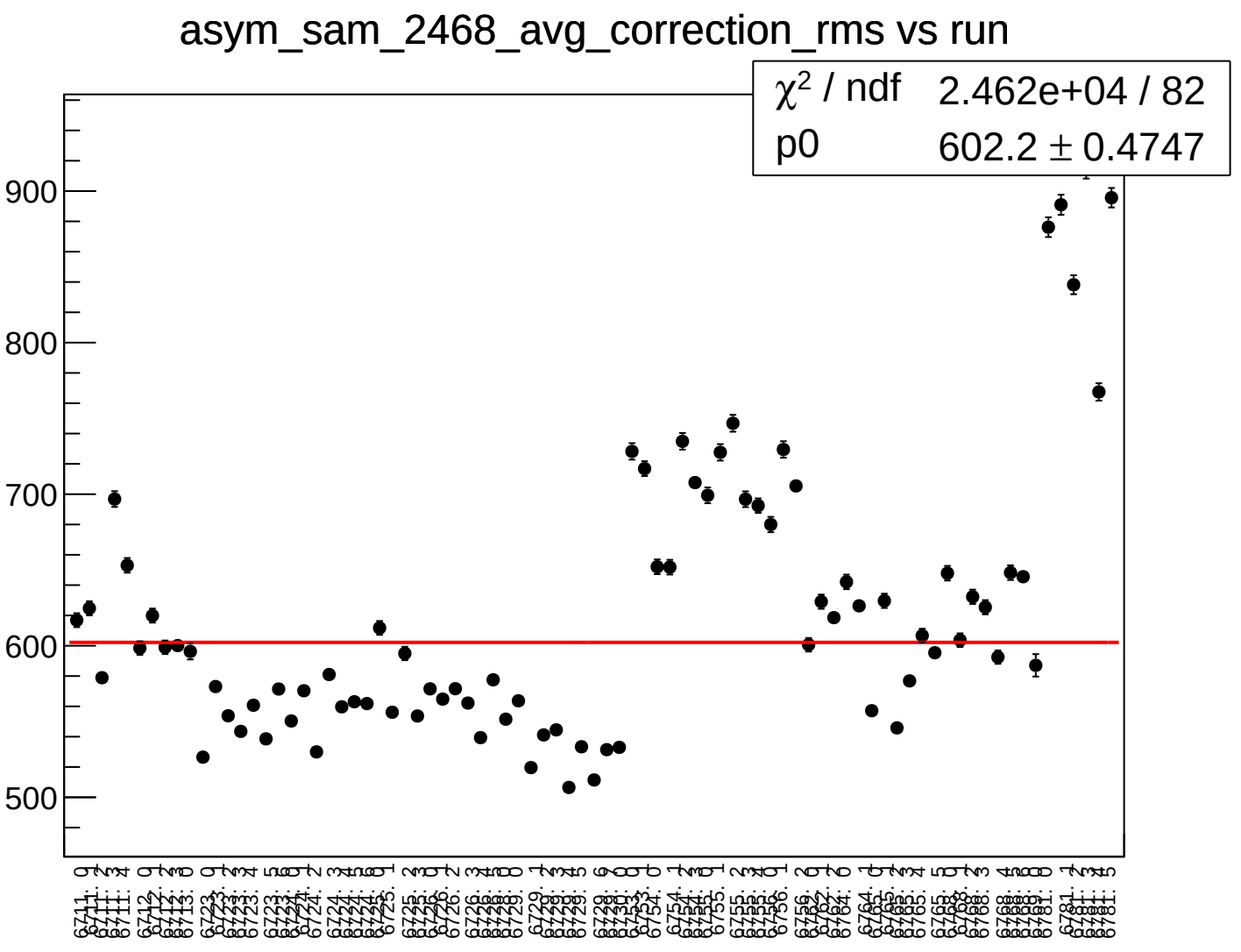

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 84.89 / 82
p0 −19.05 ± 82.63
pull
Entries 83
Mean −88.07
Std Dev 103.7

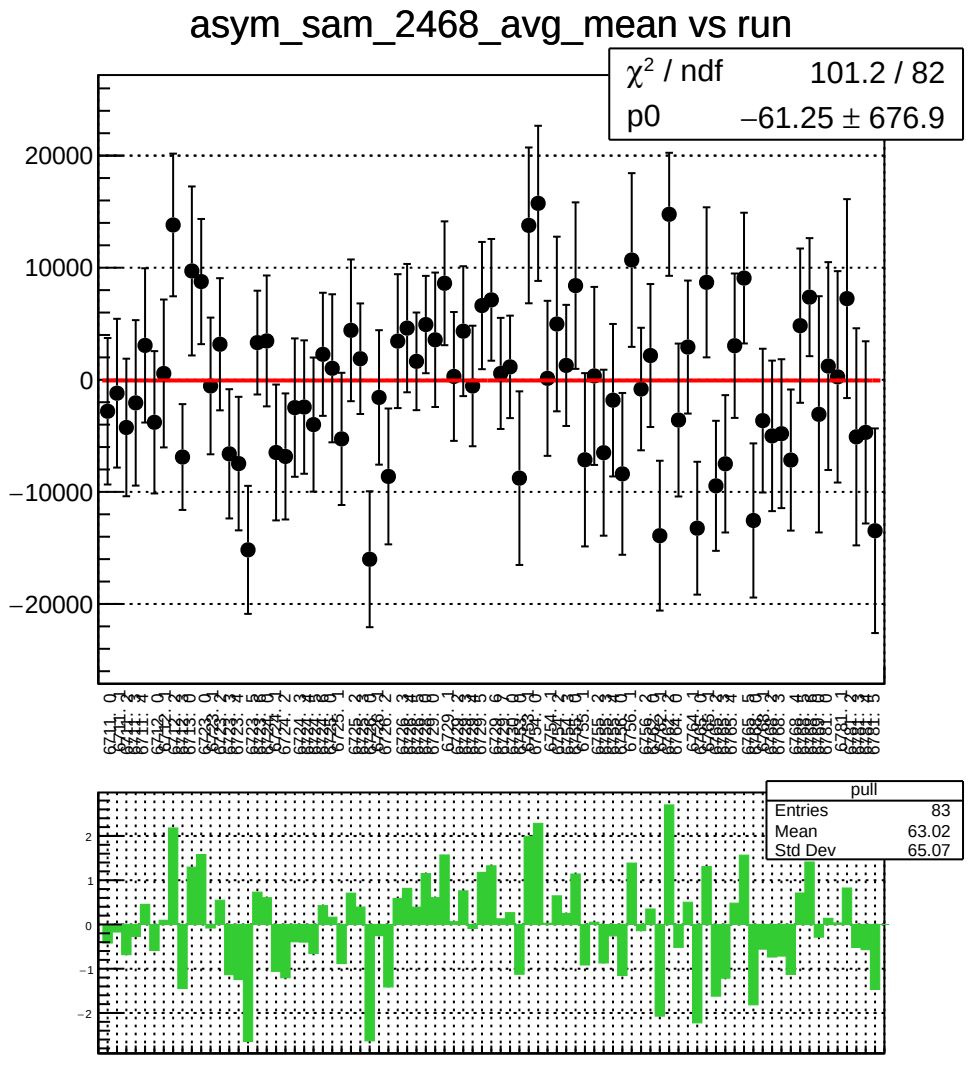

pull1D
Entries 83
Mean 0.008634
Std Dev 1.011

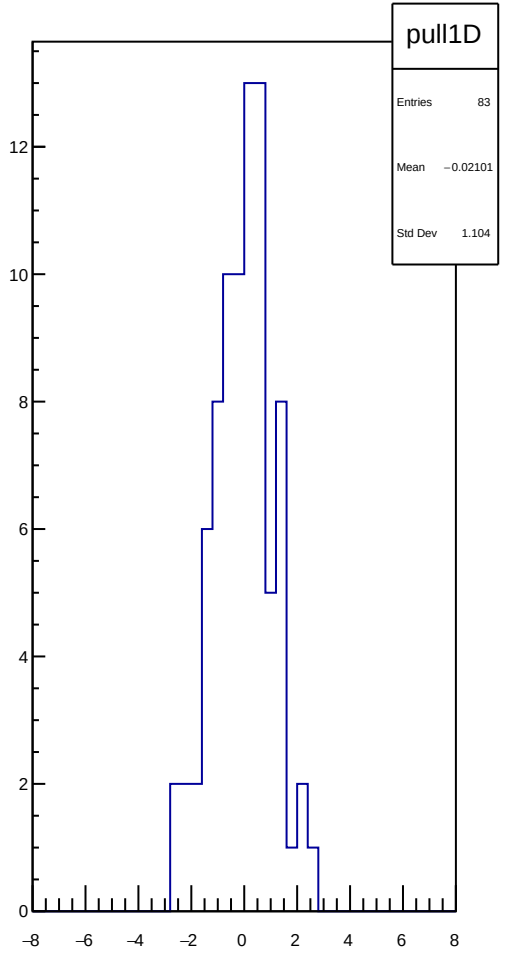

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 3.572e+04 / 82
p0 73.87 ± 0.05843
160
140
120
100
80
60

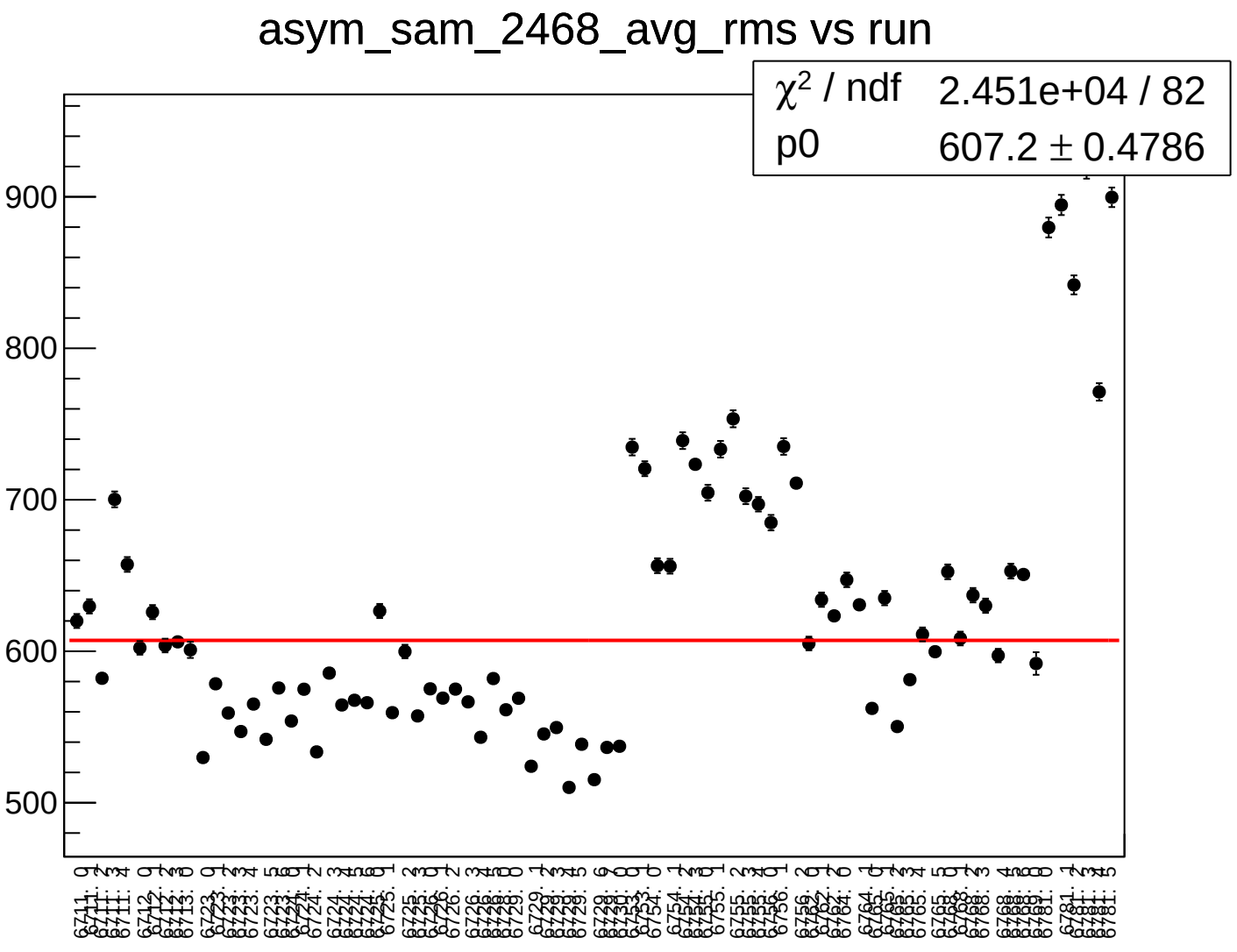

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 96.67 / 82
p0 64.97 ± 671.4
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 56.96
Std Dev 69.37
2
1
0
−1
−2

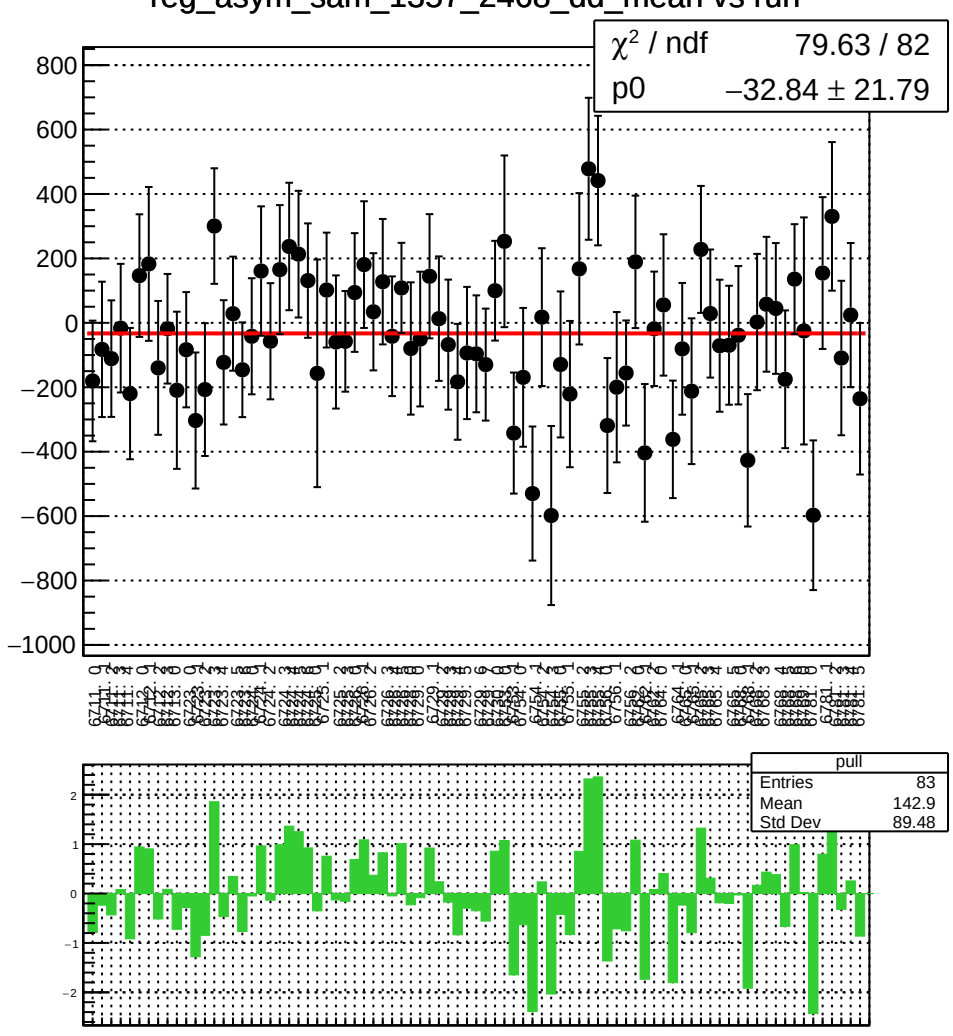

pull1D
Entries 83
Mean 0.02053
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

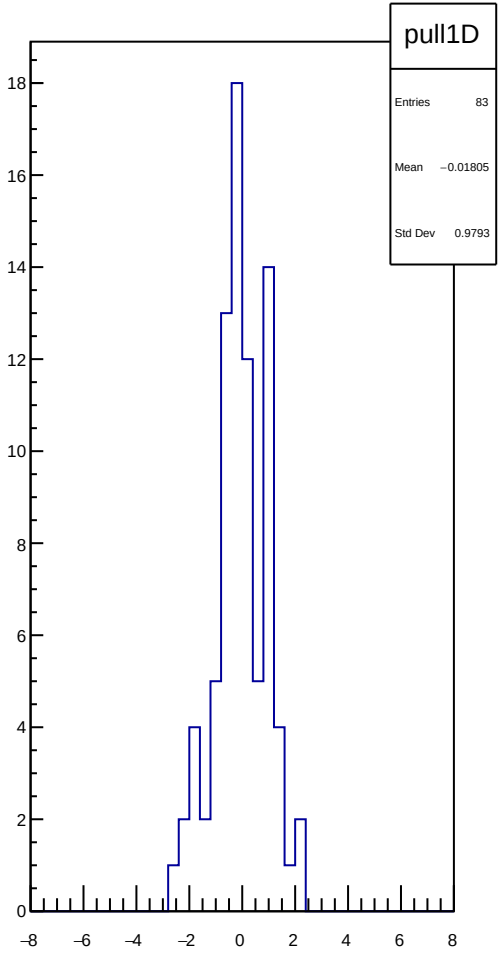

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 2.462e+04 / 82
p0 602.2 ± 0.4747
900
800
700
600
500

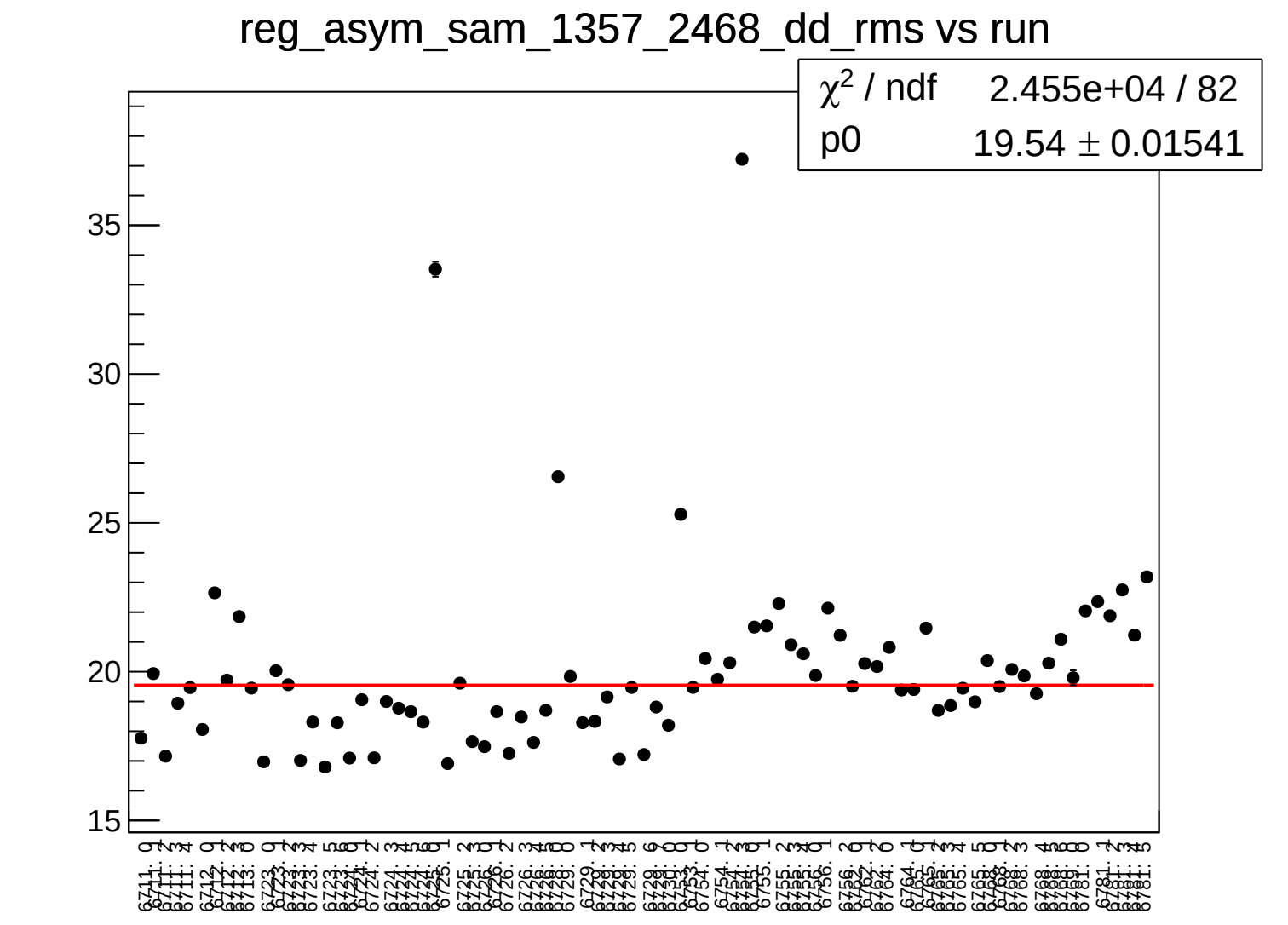

asym_sam_2468_avg_mean vs run
χ² / ndf 101.2 / 82
p0 −61.25 ± 676.9
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 63.02
Std Dev 65.07
2
1
0
−1
−2

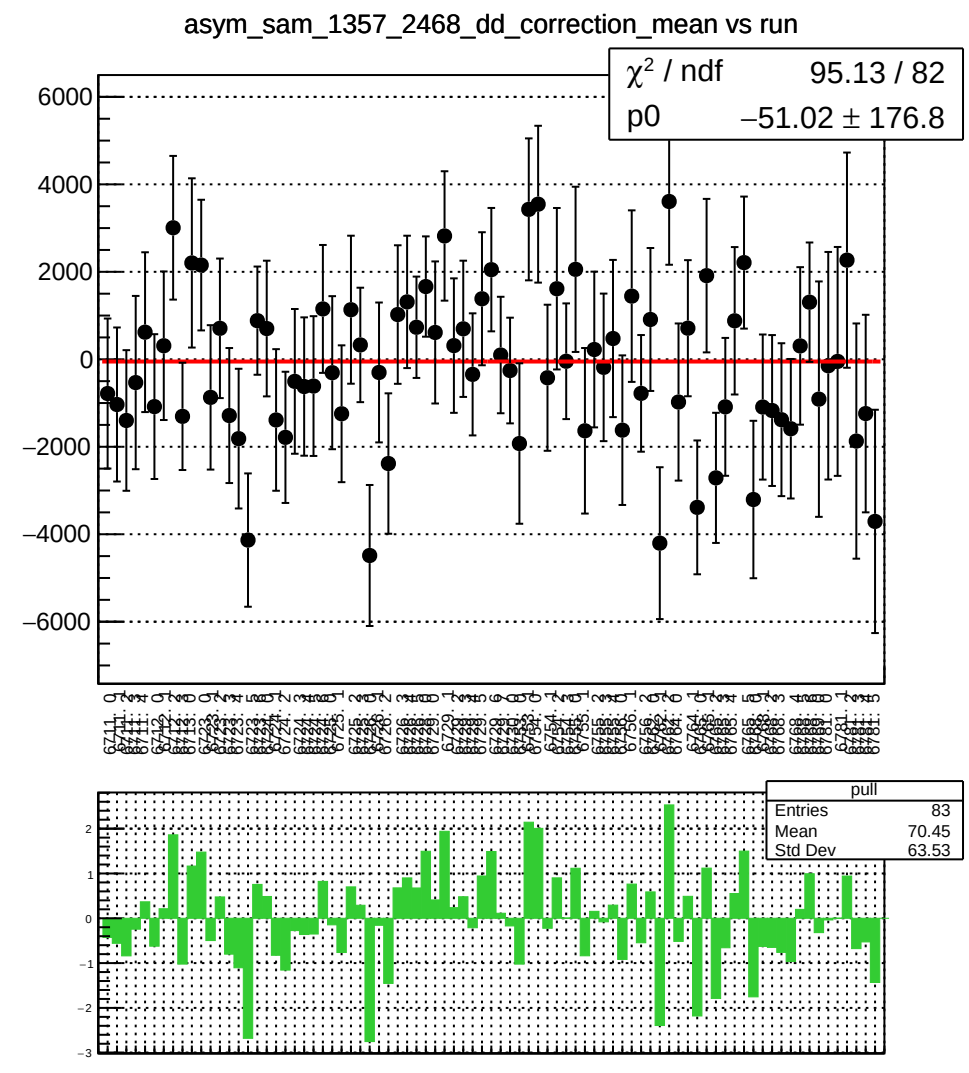

pull1D
Entries 83
Mean −0.02101
Std Dev 1.104
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

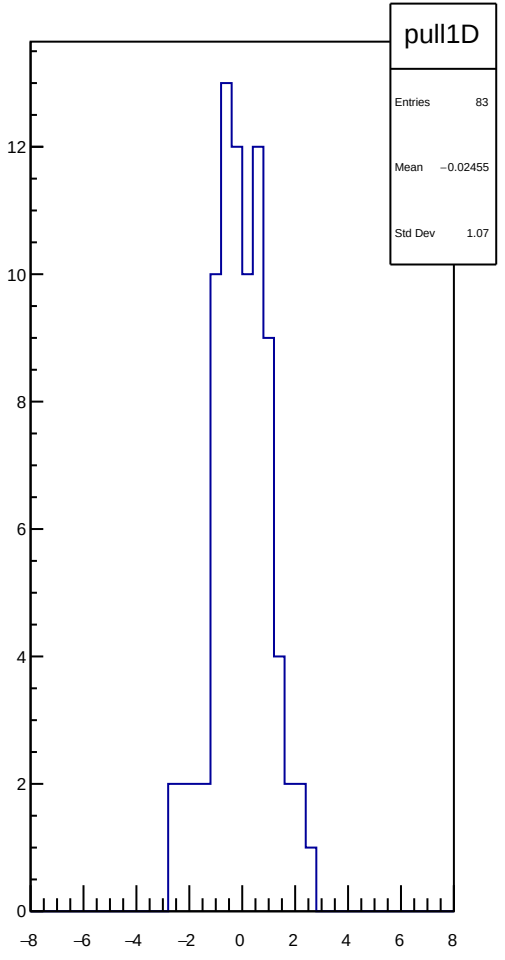

asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.451e+04 / 82
p0 607.2 ± 0.4786
900
800
700
600
500

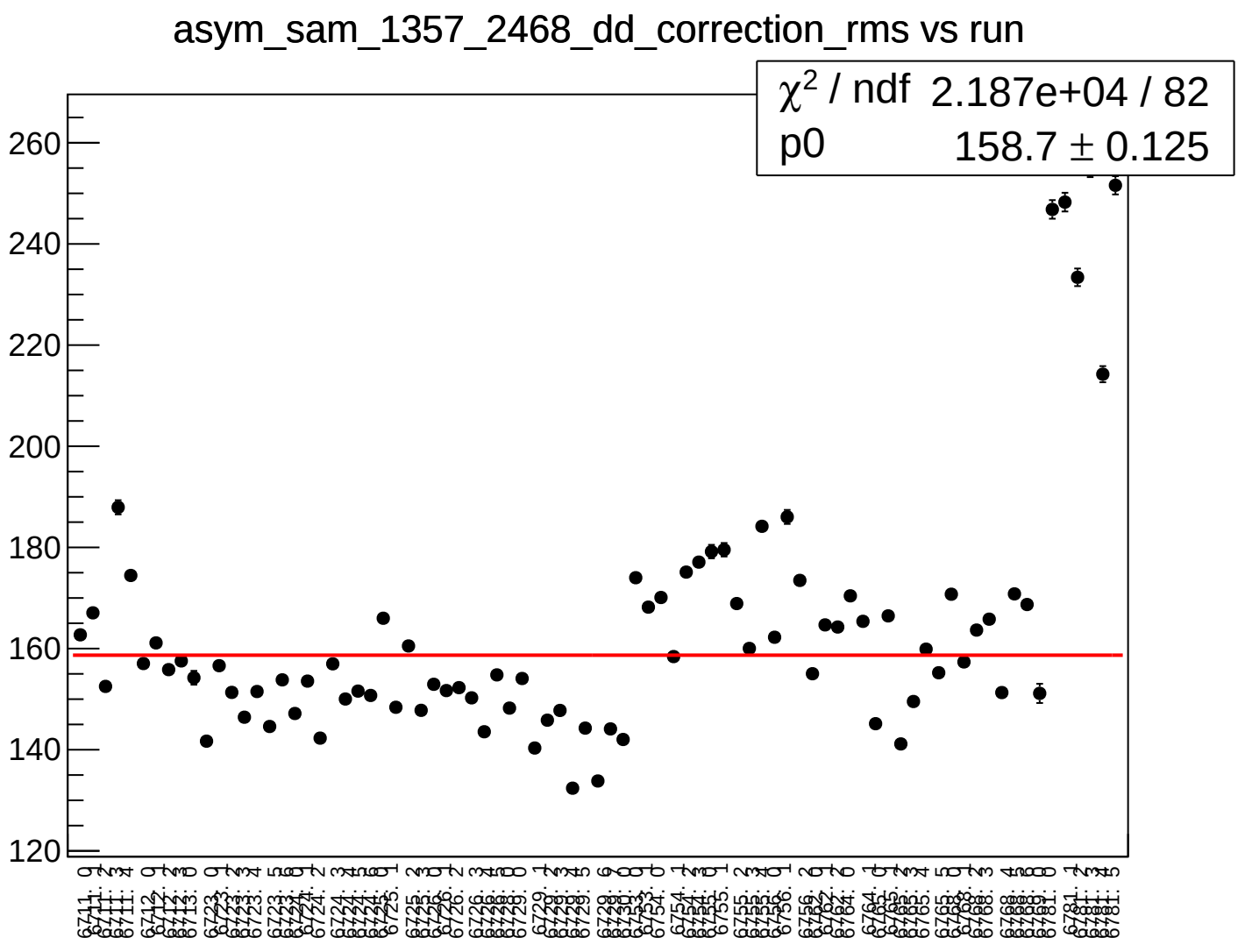

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 79.63 / 82
p0 −32.84 ± 21.79
pull
Entries 83
Mean 142.9
Std Dev 89.48

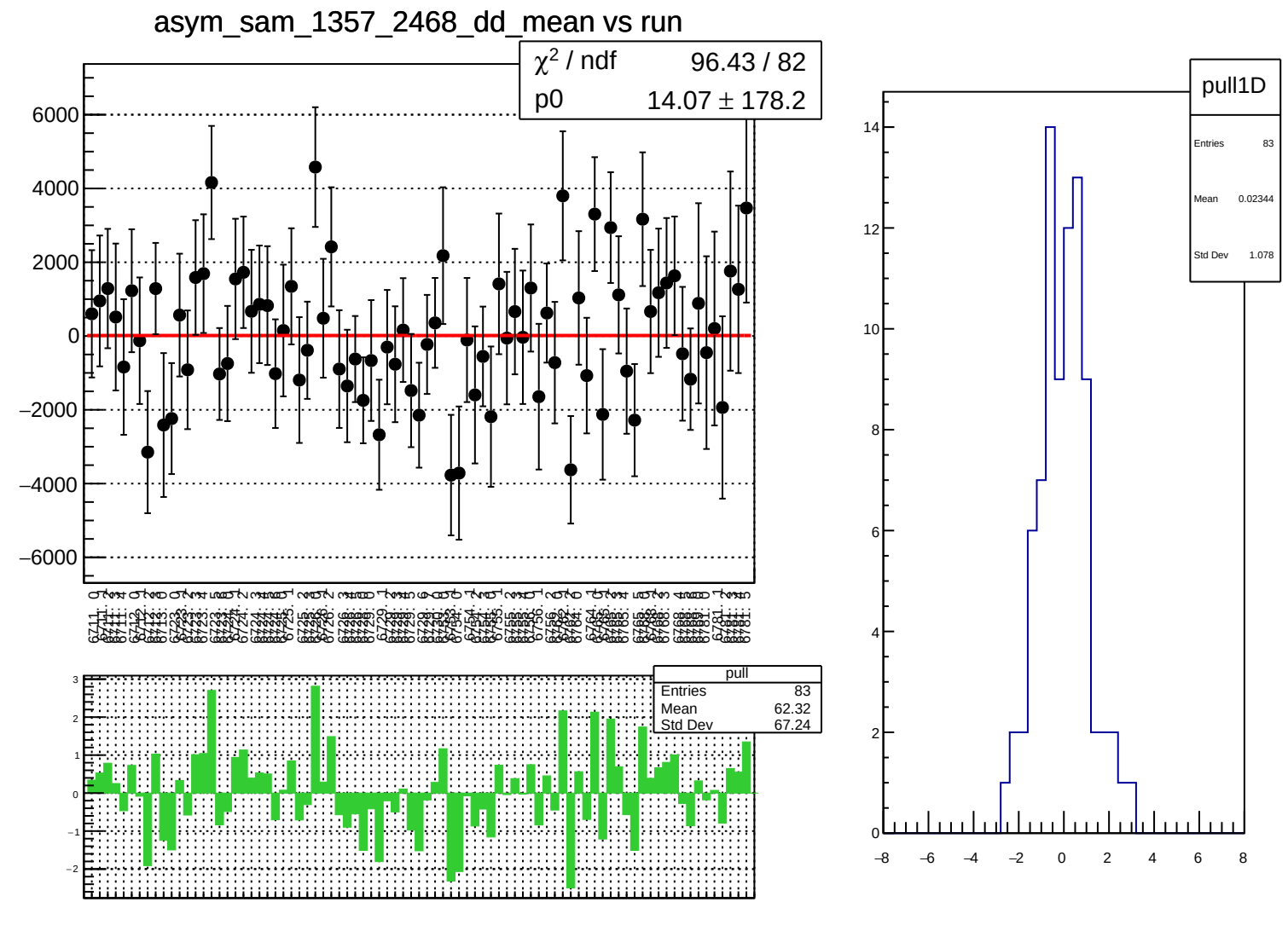

pull1D
Entries 83
Mean −0.01805
Std Dev 0.9793

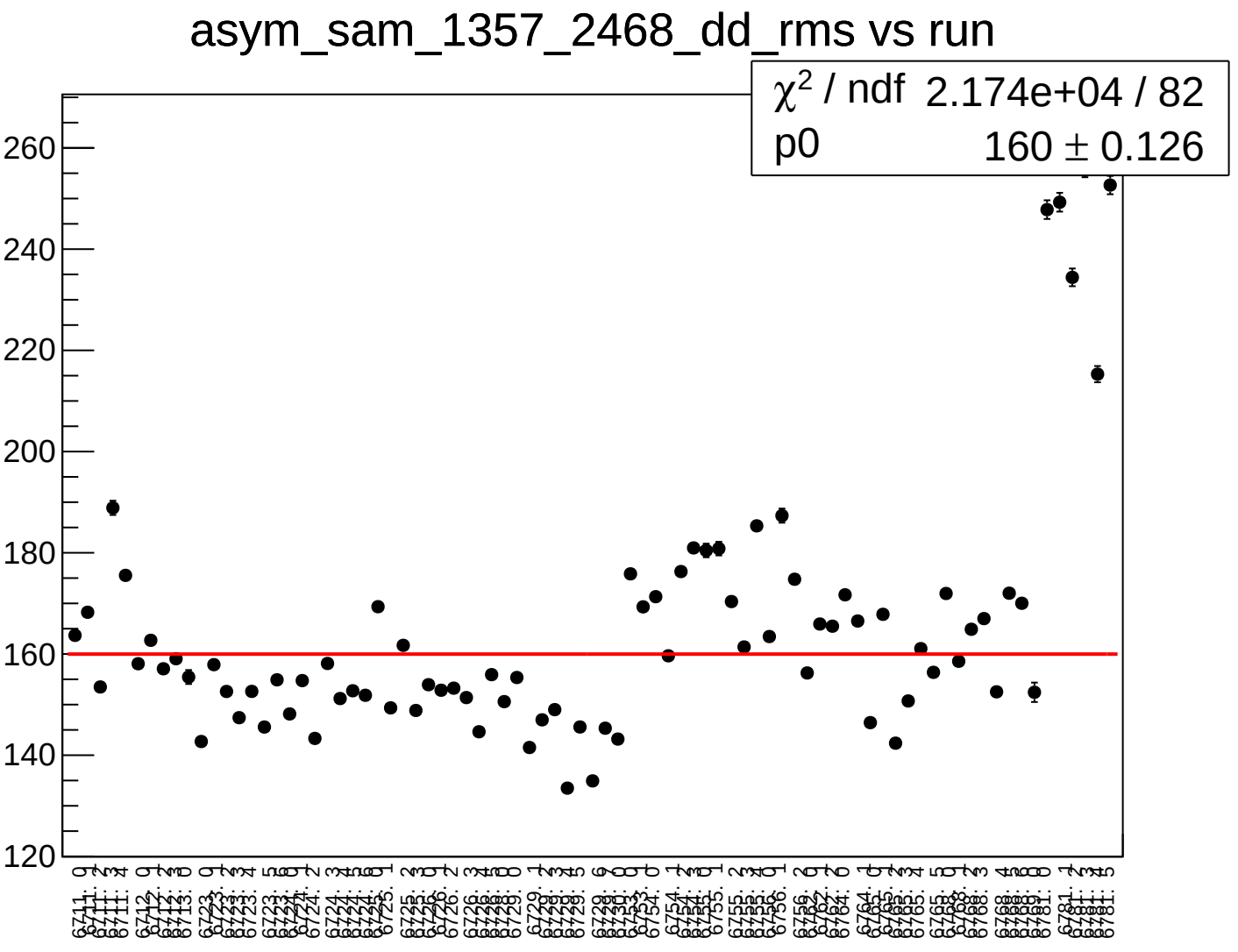

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.455e+04 / 82
p0 19.54 ± 0.01541
35
30
25
20
15

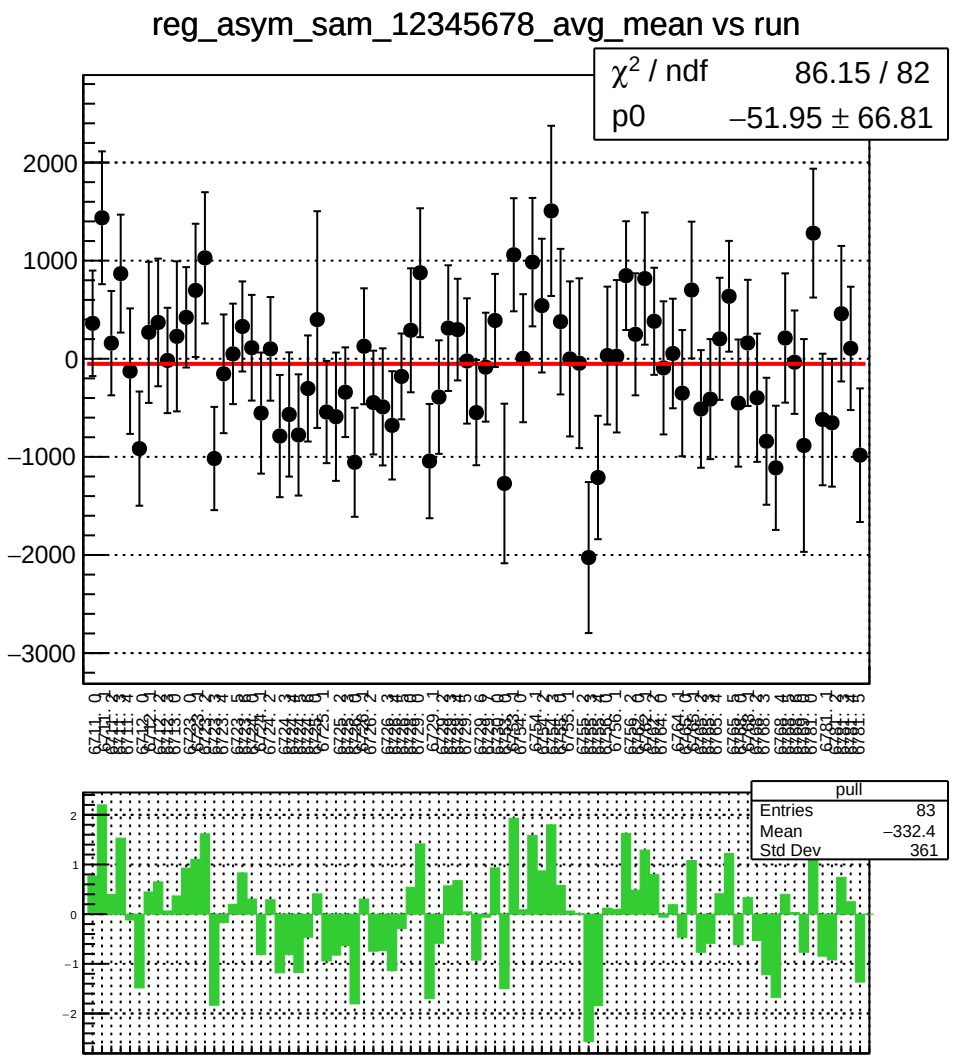

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 95.13 / 82
p0 −51.02 ± 176.8
pull
Entries 83
Mean 70.45
Std Dev 63.53

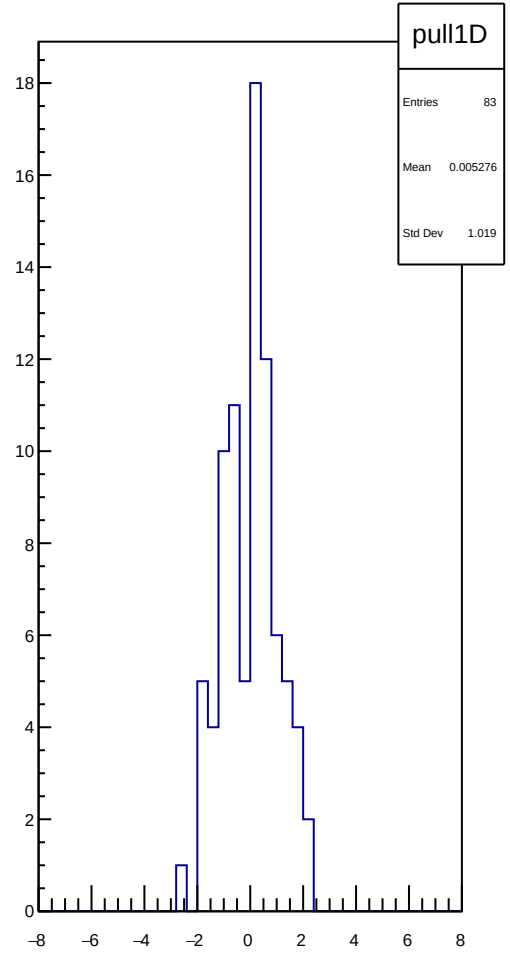

pull1D
Entries 83
Mean −0.02455
Std Dev 1.07

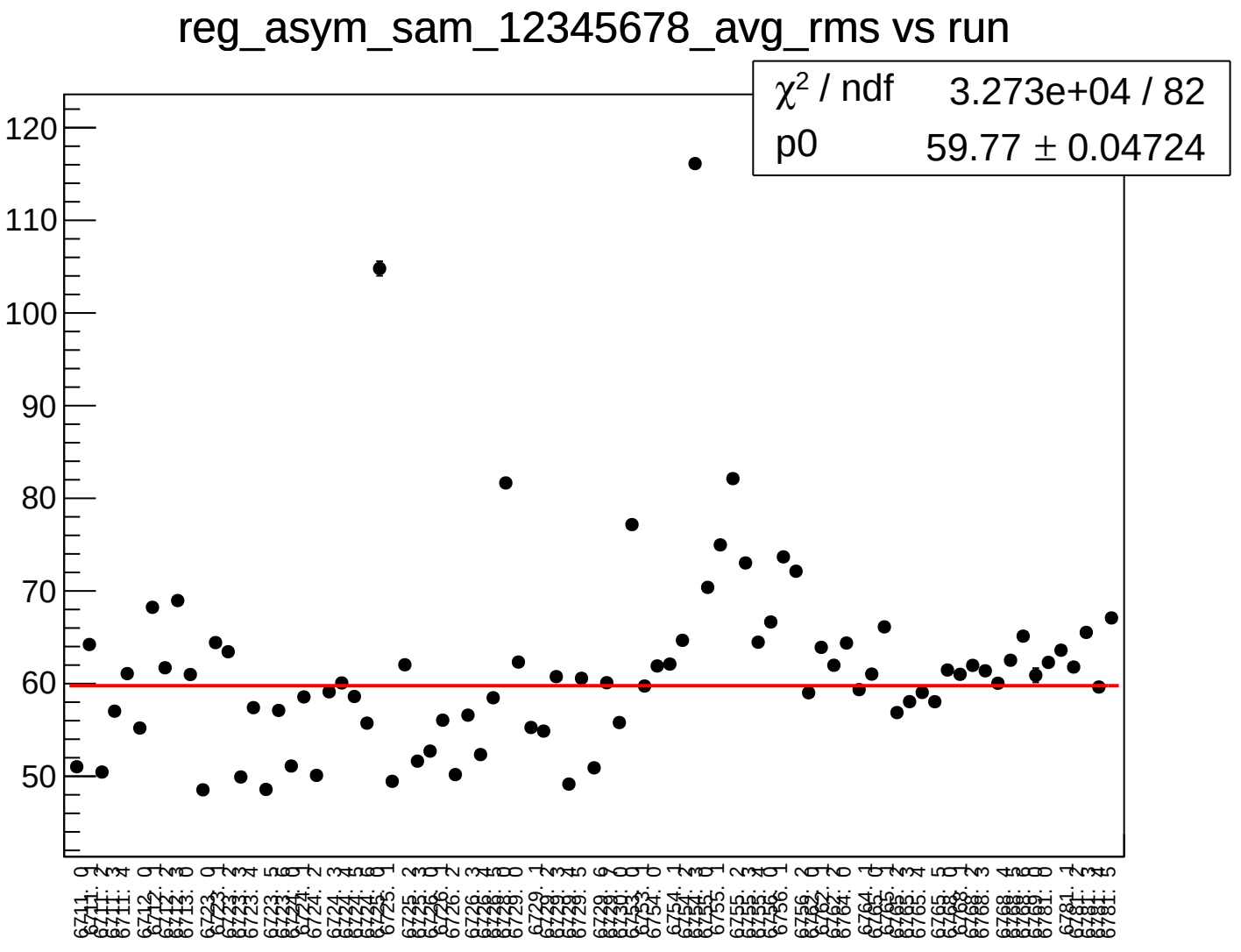

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 2.187e+04 / 82
p0 158.7 ± 0.125
260
240
220
200
180
160
140
120

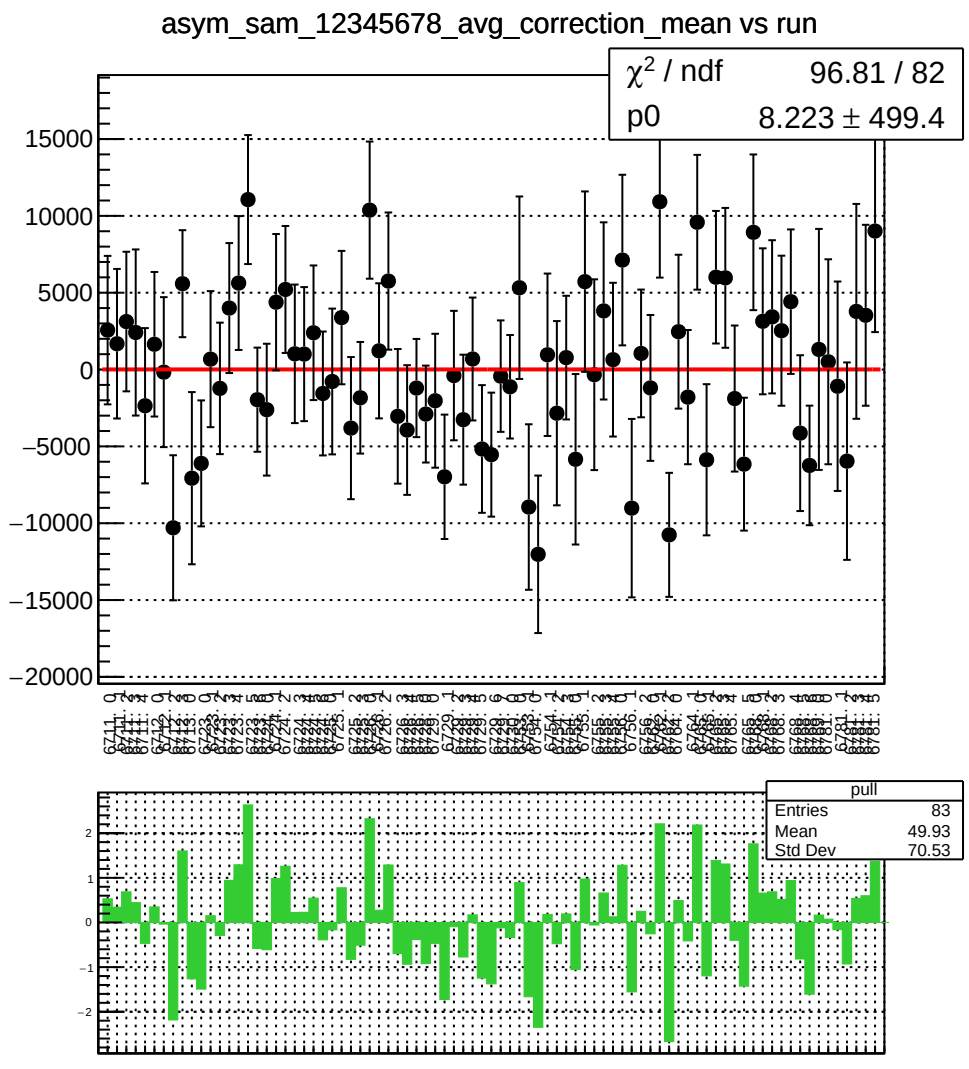

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 96.43 / 82
p0 14.07 ± 178.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean 62.32
Std Dev 67.24
3
2
1
0
−1
−2
pull1D
Entries 83
Mean 0.02344
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

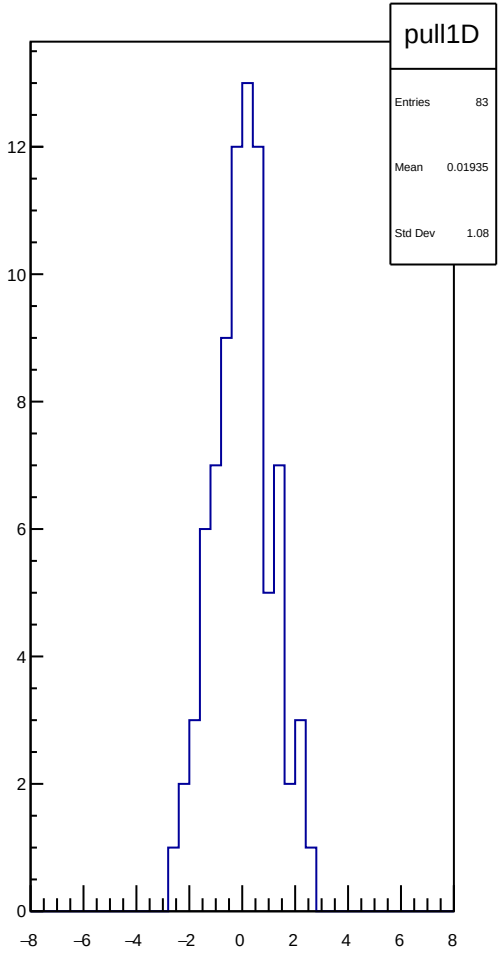

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.174e+04 / 82
p0 160 ± 0.126
260
240
220
200
180
160
140
120

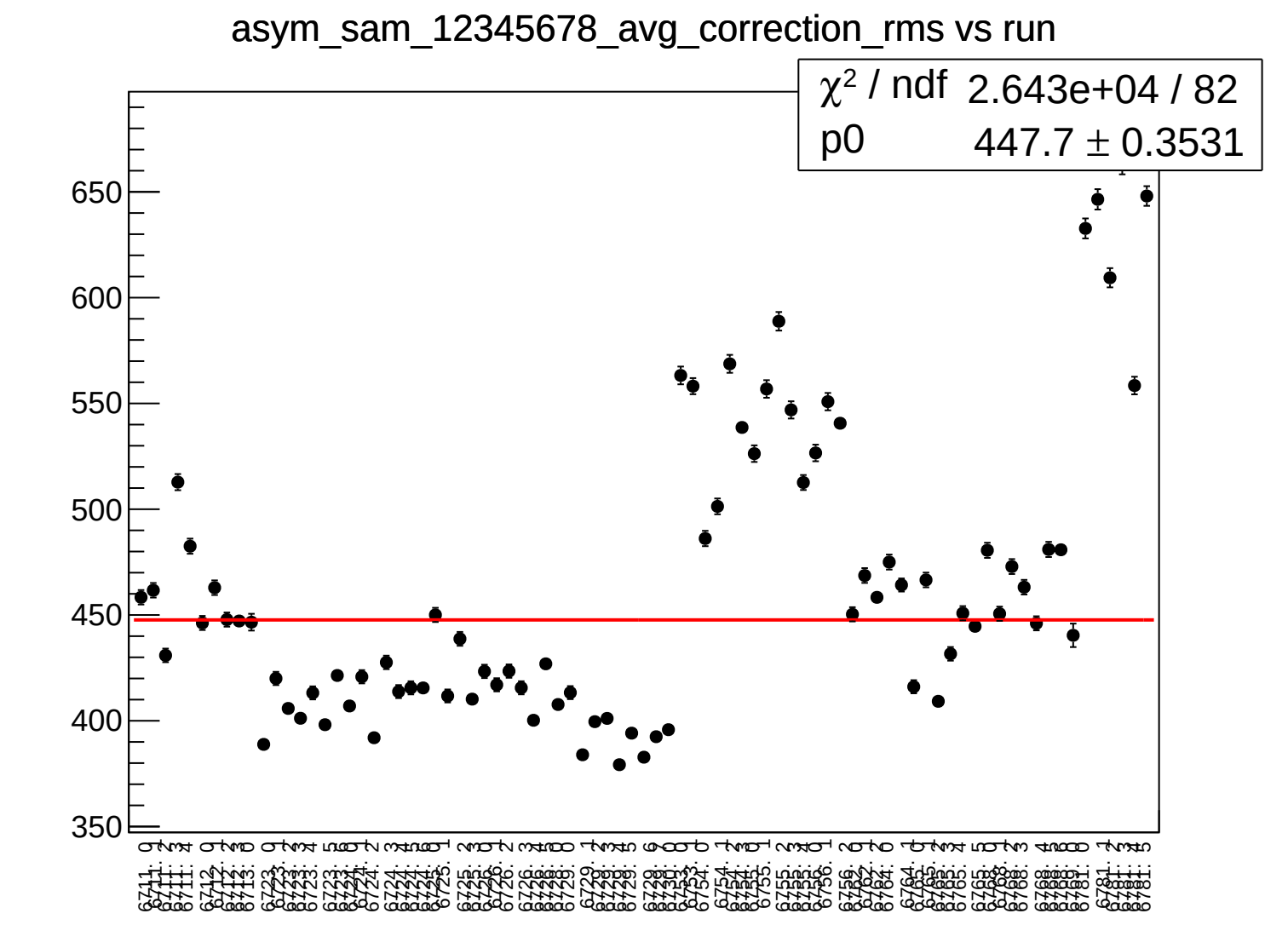

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 86.15 / 82
p0 −51.95 ± 66.81
pull
Entries 83
Mean −332.4
Std Dev 361

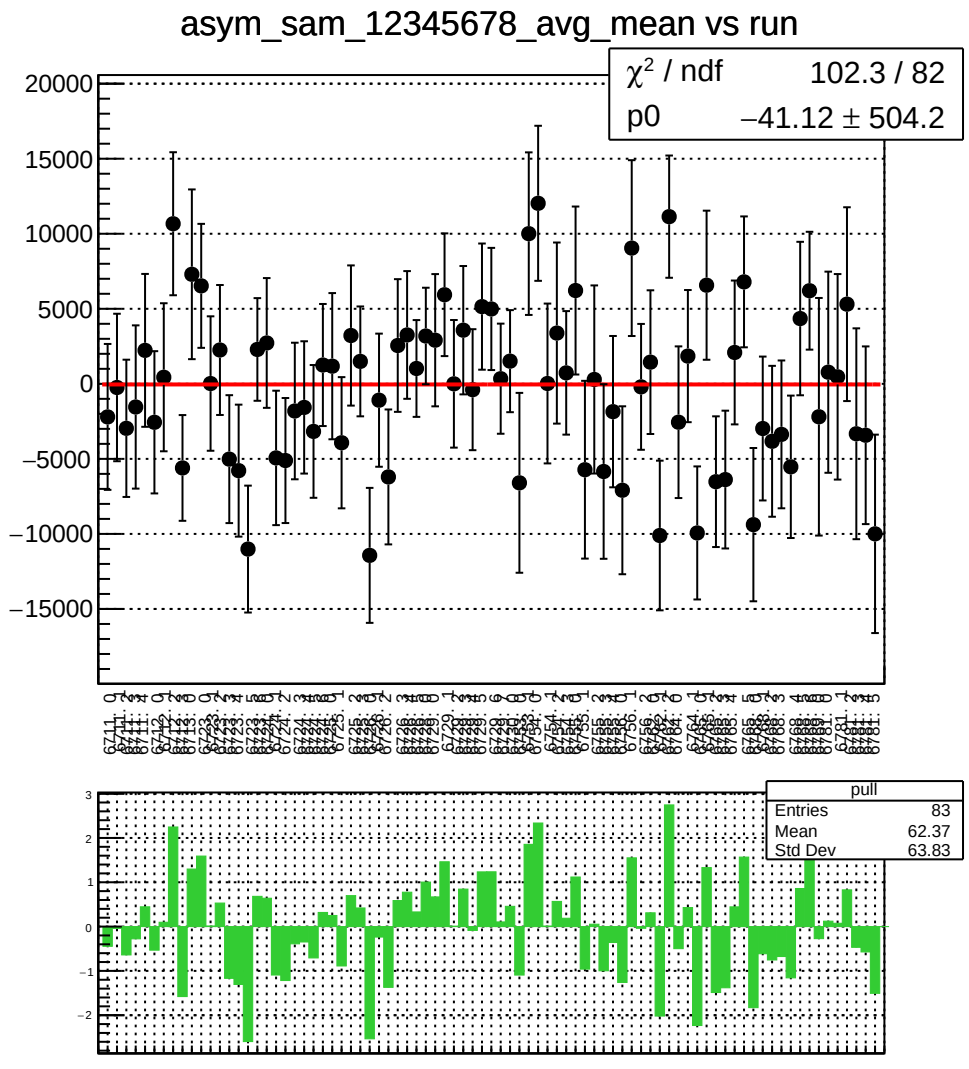

pull1D
Entries 83
Mean 0.005276
Std Dev 1.019

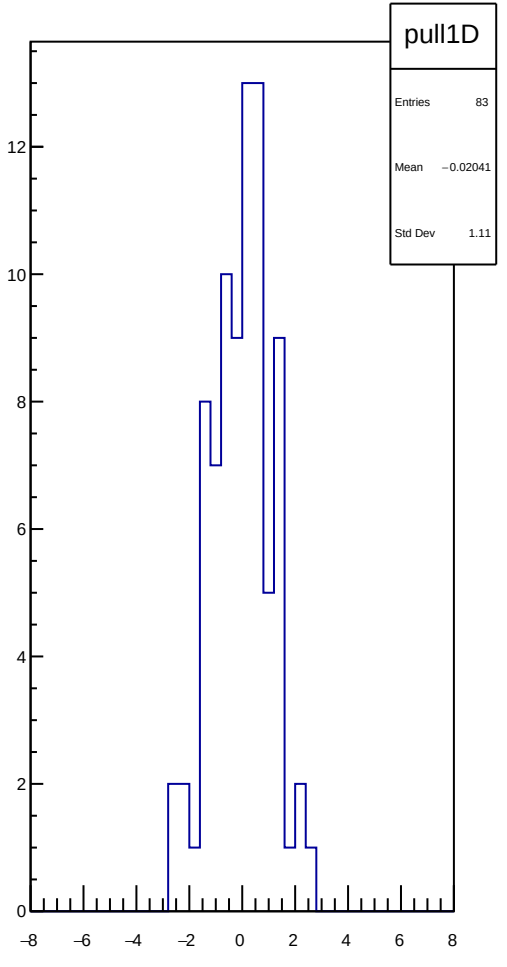

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.273e+04 / 82
p0 59.77 ± 0.04724
120
110
100
90
80
70
60
50

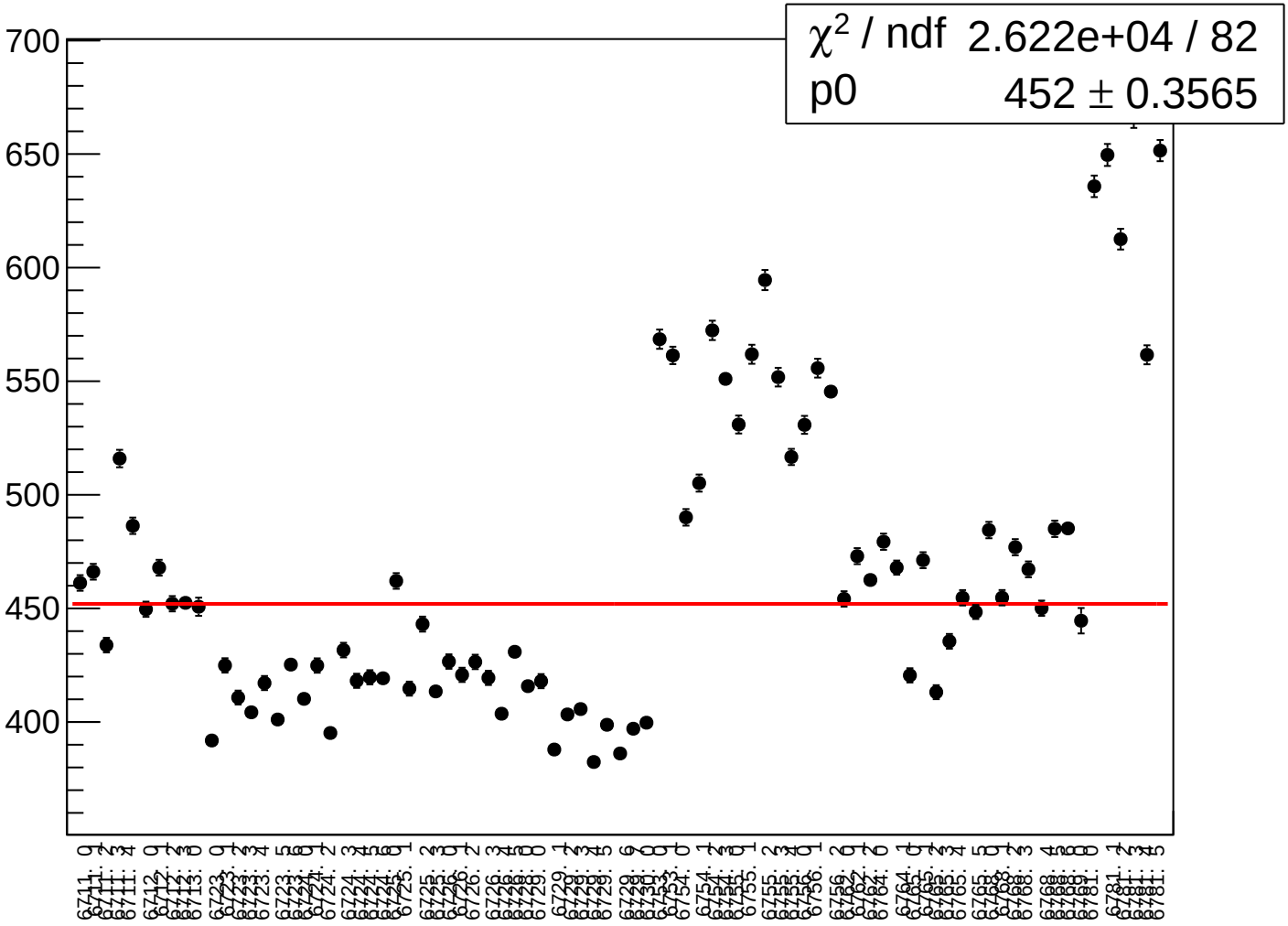

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 96.81 / 82
p0 8.223 ± 499.4
pull
Entries 83
Mean 49.93
Std Dev 70.53

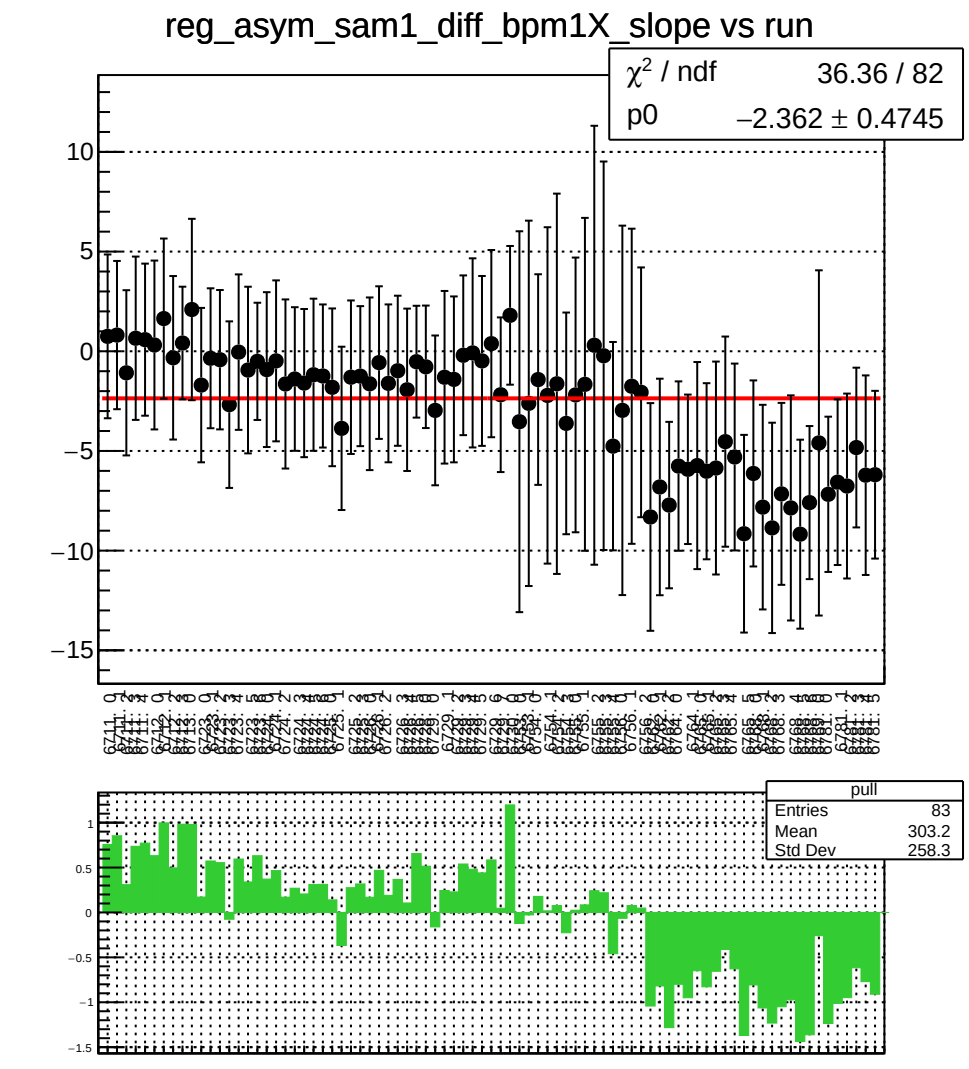

pull1D
Entries 83
Mean 0.01935
Std Dev 1.08

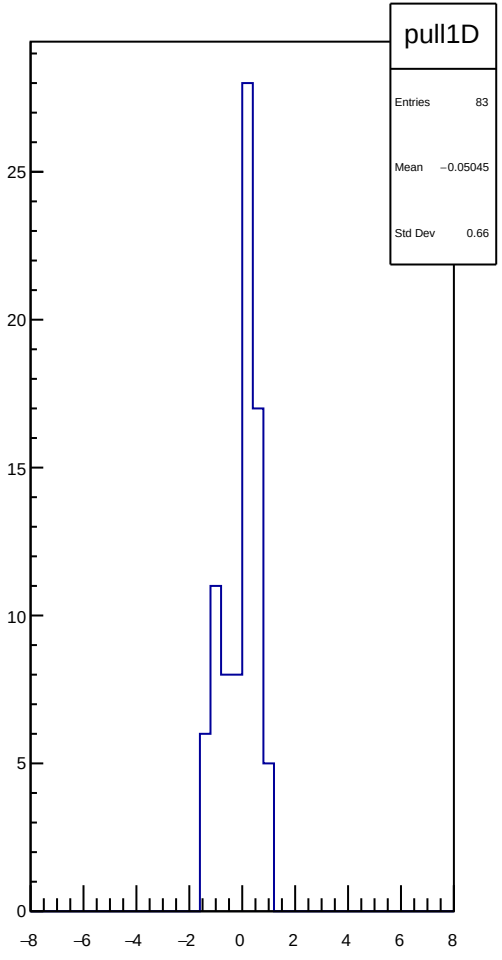

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 2.643e+04 / 82
p0 447.7 ± 0.3531
650
600
550
500
450
400
350

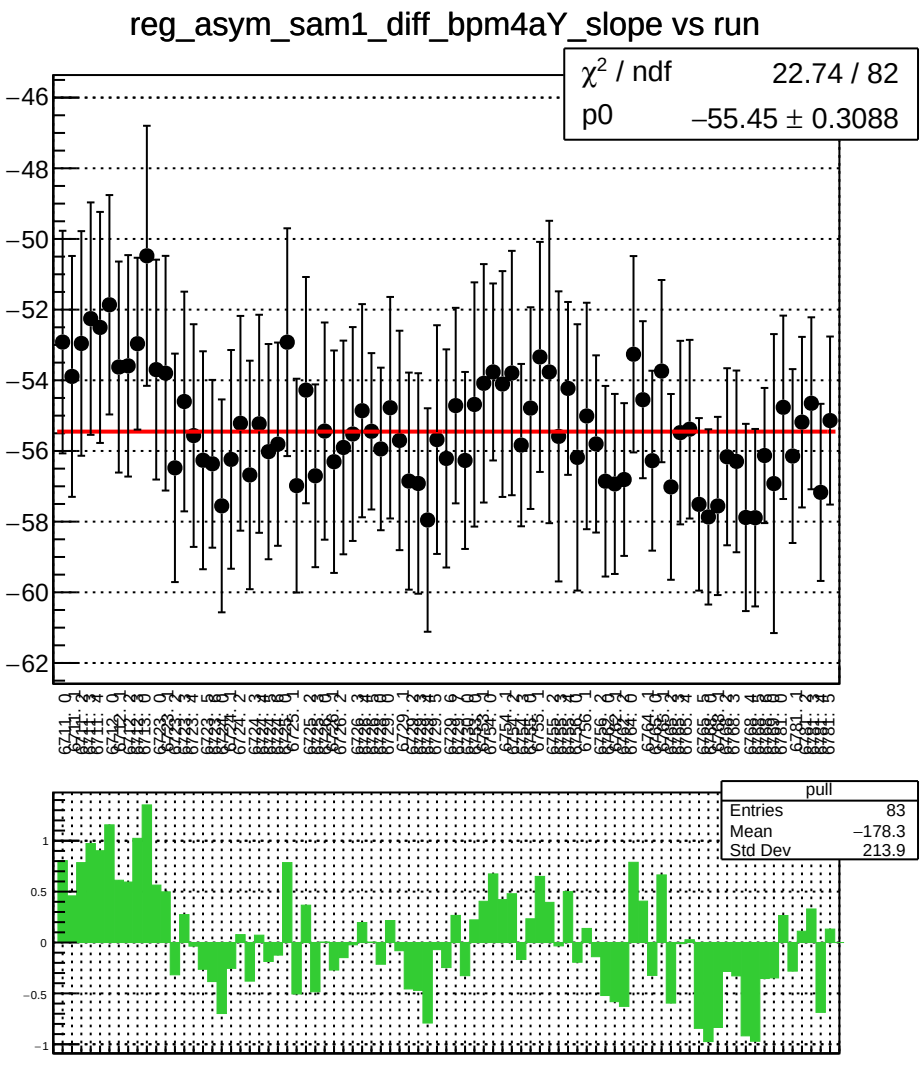

asym_sam_12345678_avg_mean vs run
χ² / ndf 102.3 / 82
p0 −41.12 ± 504.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 62.37
Std Dev 63.83
3
2
1
0
−1
−2

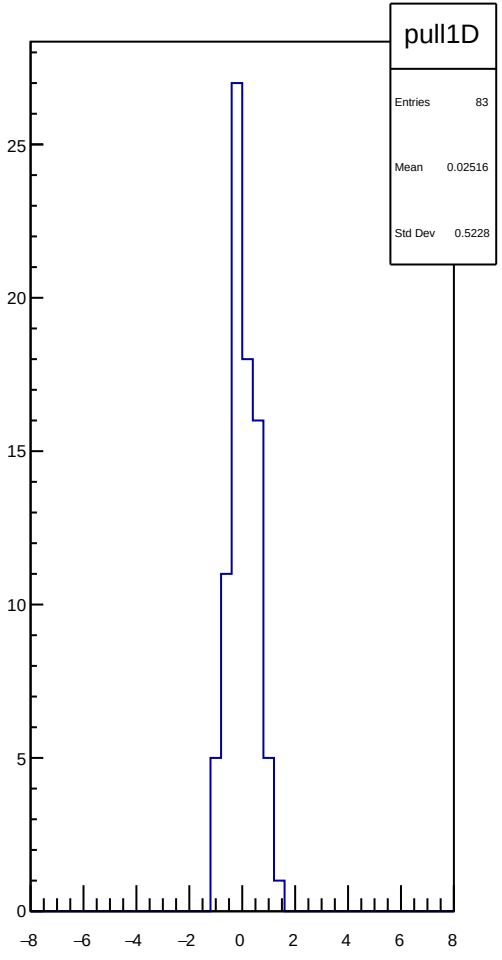

pull1D
Entries 83
Mean −0.02041
Std Dev 1.11
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

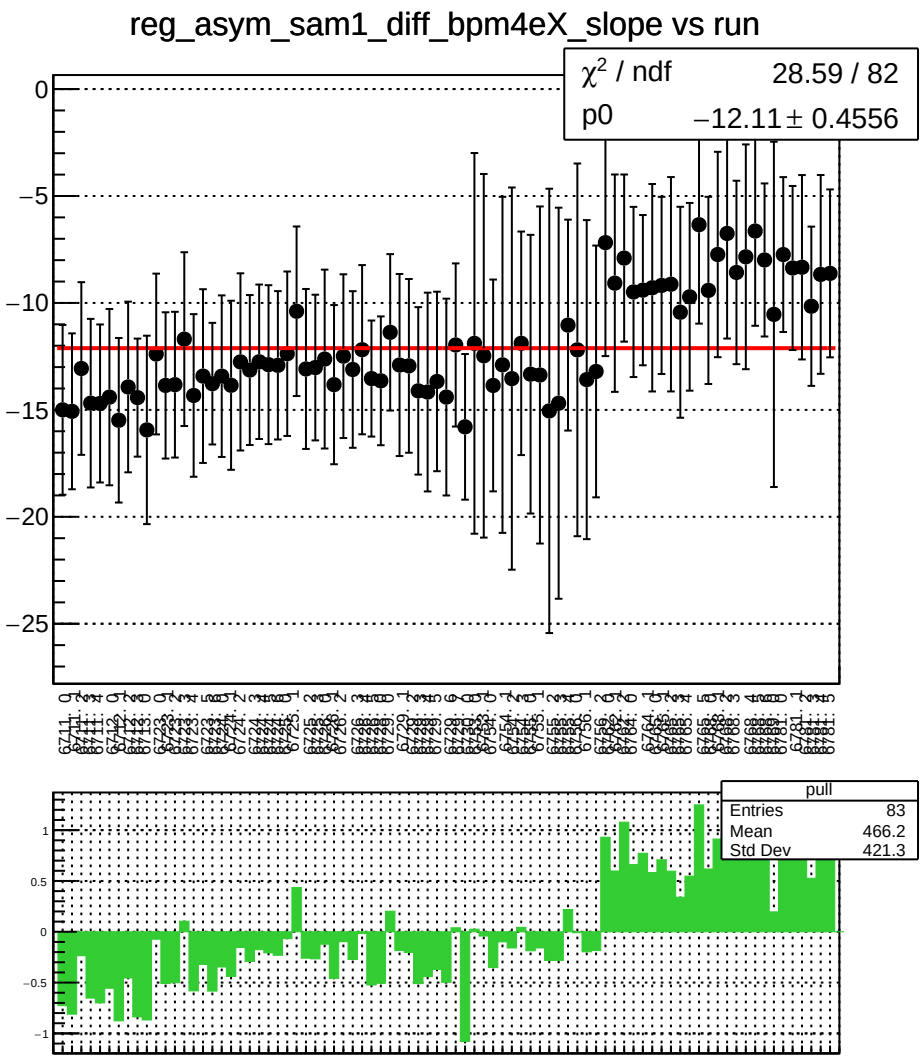

asym_sam_12345678_avg_rms vs run
χ² / ndf 2.622e+04 / 82
p0 452 ± 0.3565
700
650
600
550
500
450
400

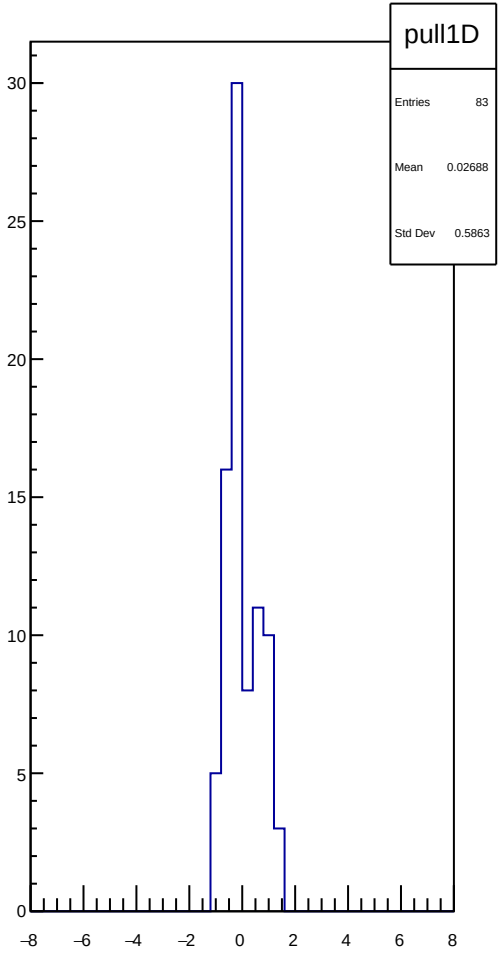

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 36.36 / 82
p0 −2.362 ± 0.4745
pull
Entries 83
Mean 303.2
Std Dev 258.3

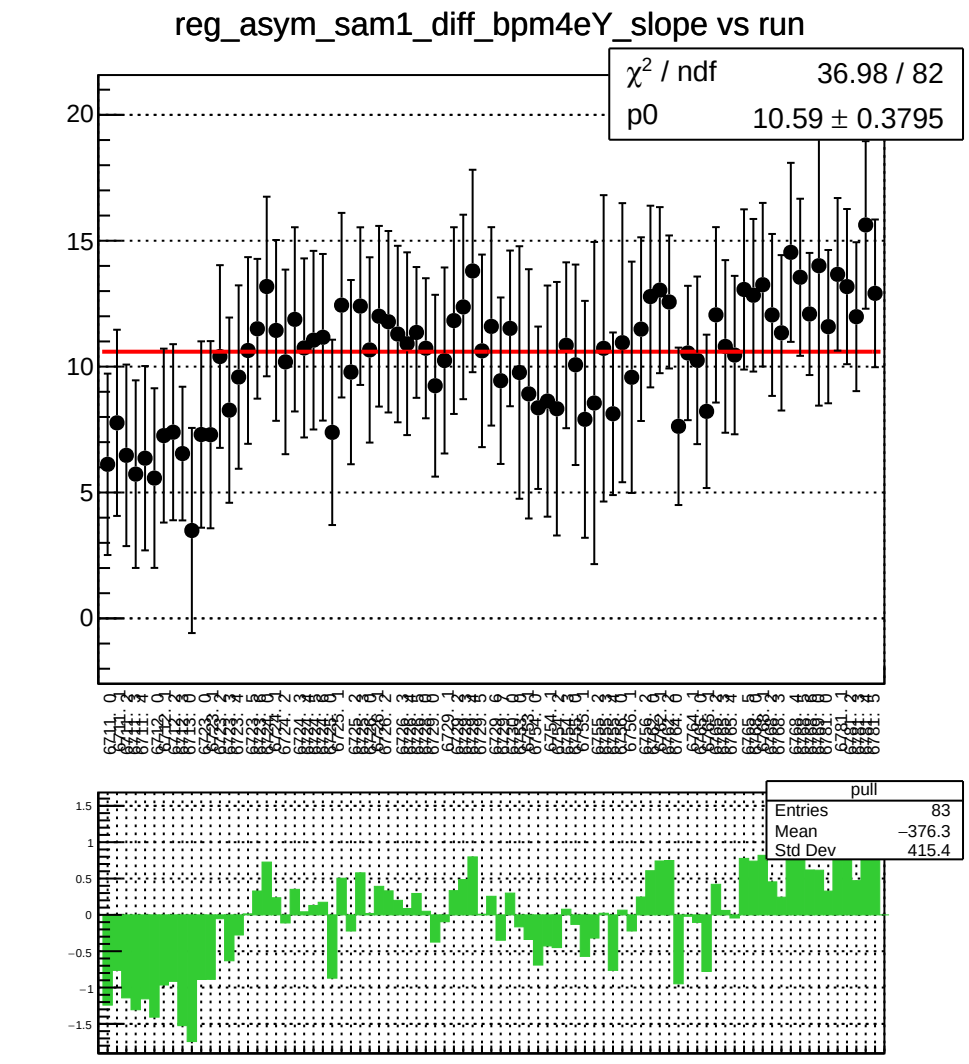

pull1D
Entries 83
Mean −0.05045
Std Dev 0.66

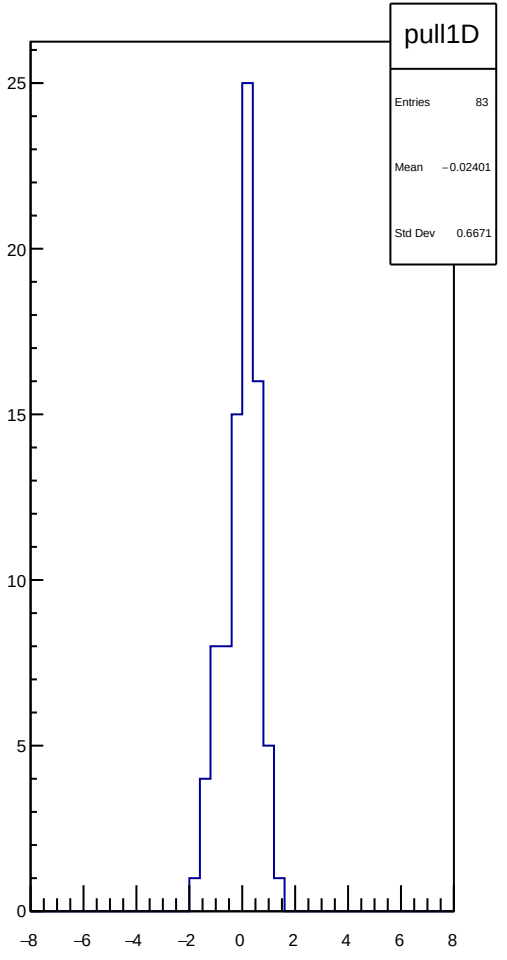

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 22.74 / 82
p0 −55.45 ± 0.3088
pull
Entries 83
Mean −178.3
Std Dev 213.9

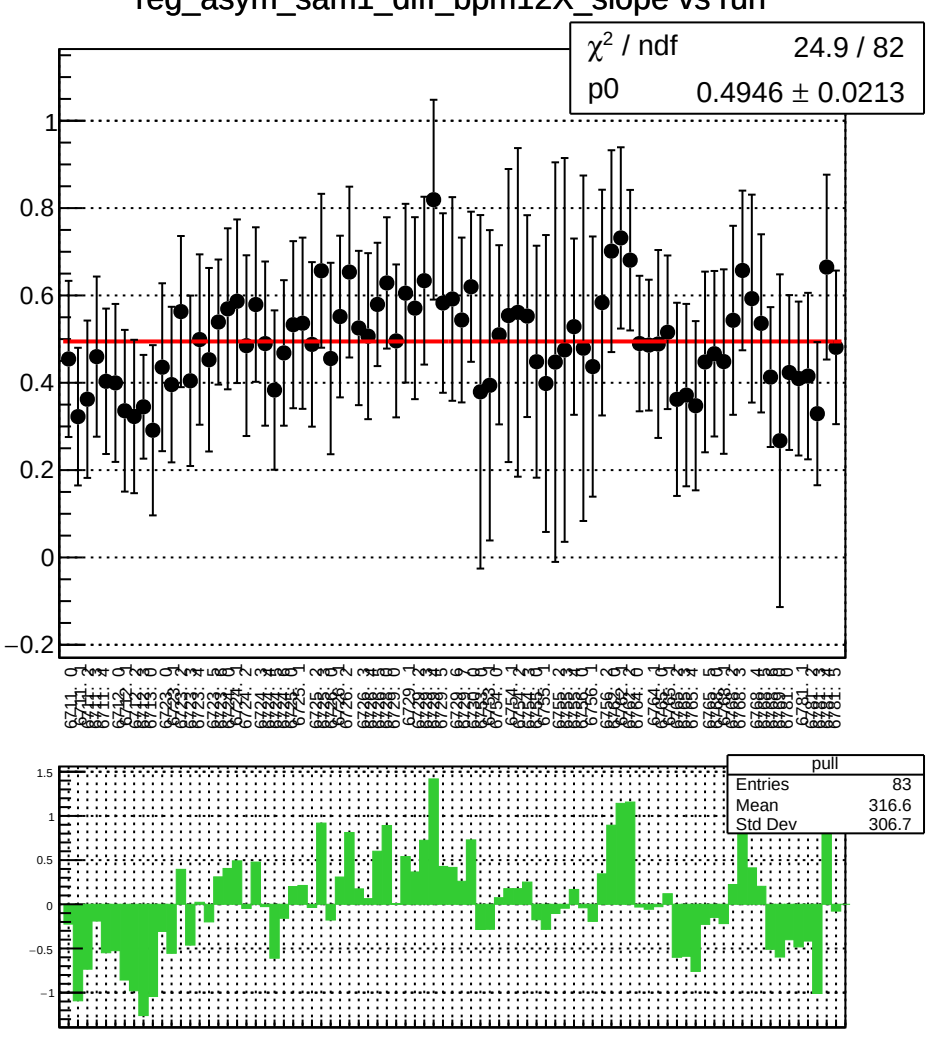

pull1D
Entries 83
Mean 0.02516
Std Dev 0.5228

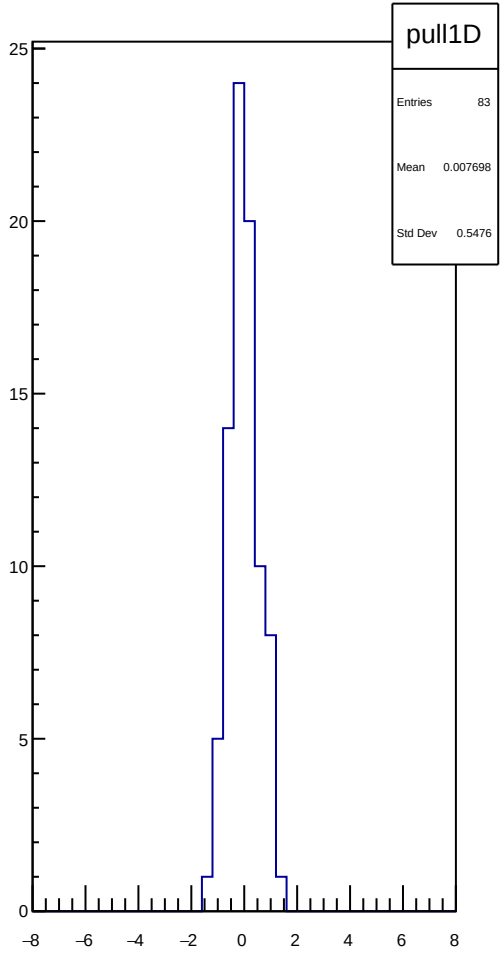

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 28.59 / 82
p0 −12.11 ± 0.4556
pull
Entries 83
Mean 466.2
Std Dev 421.3

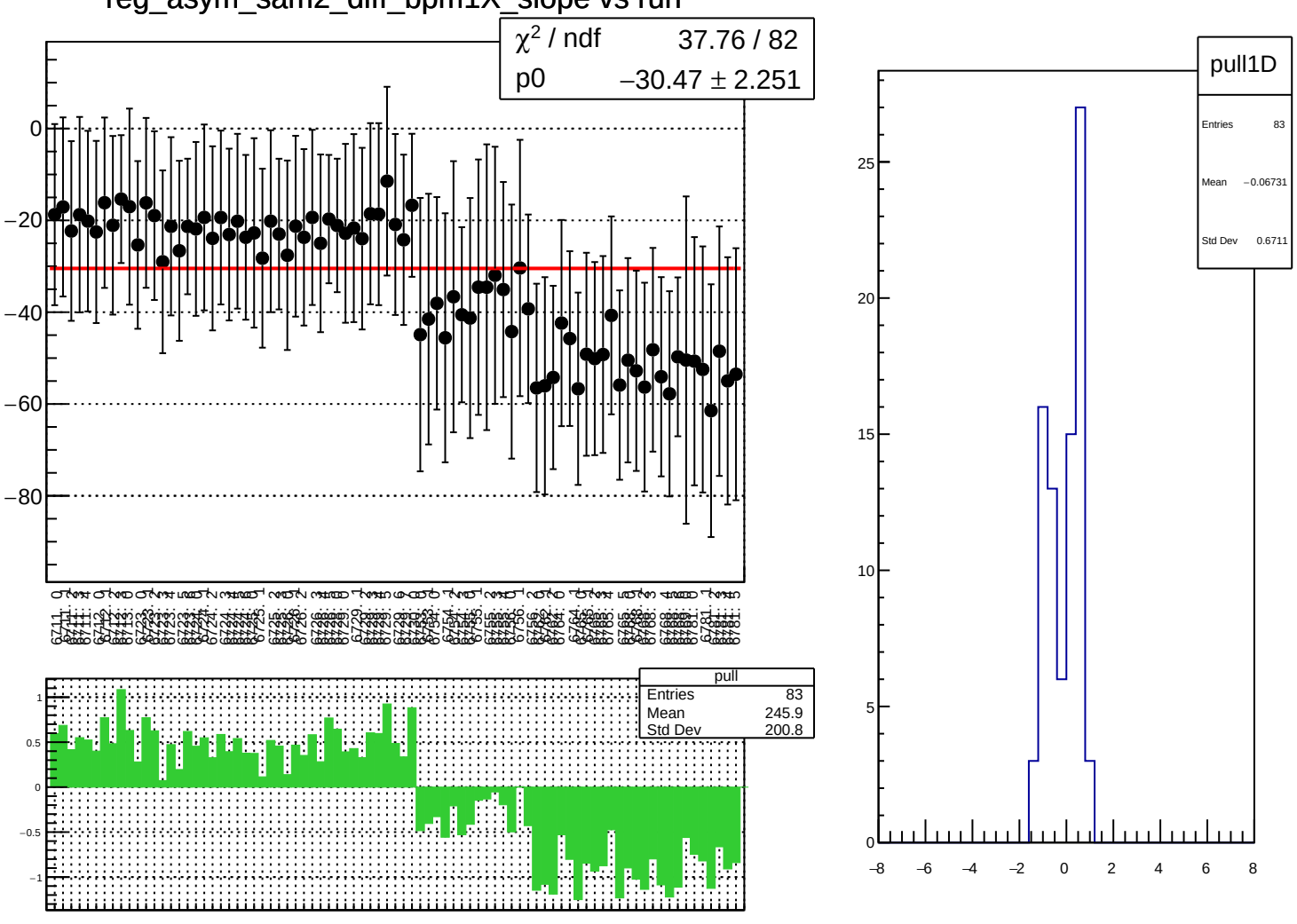

pull1D
Entries 83
Mean 0.02688
Std Dev 0.5863

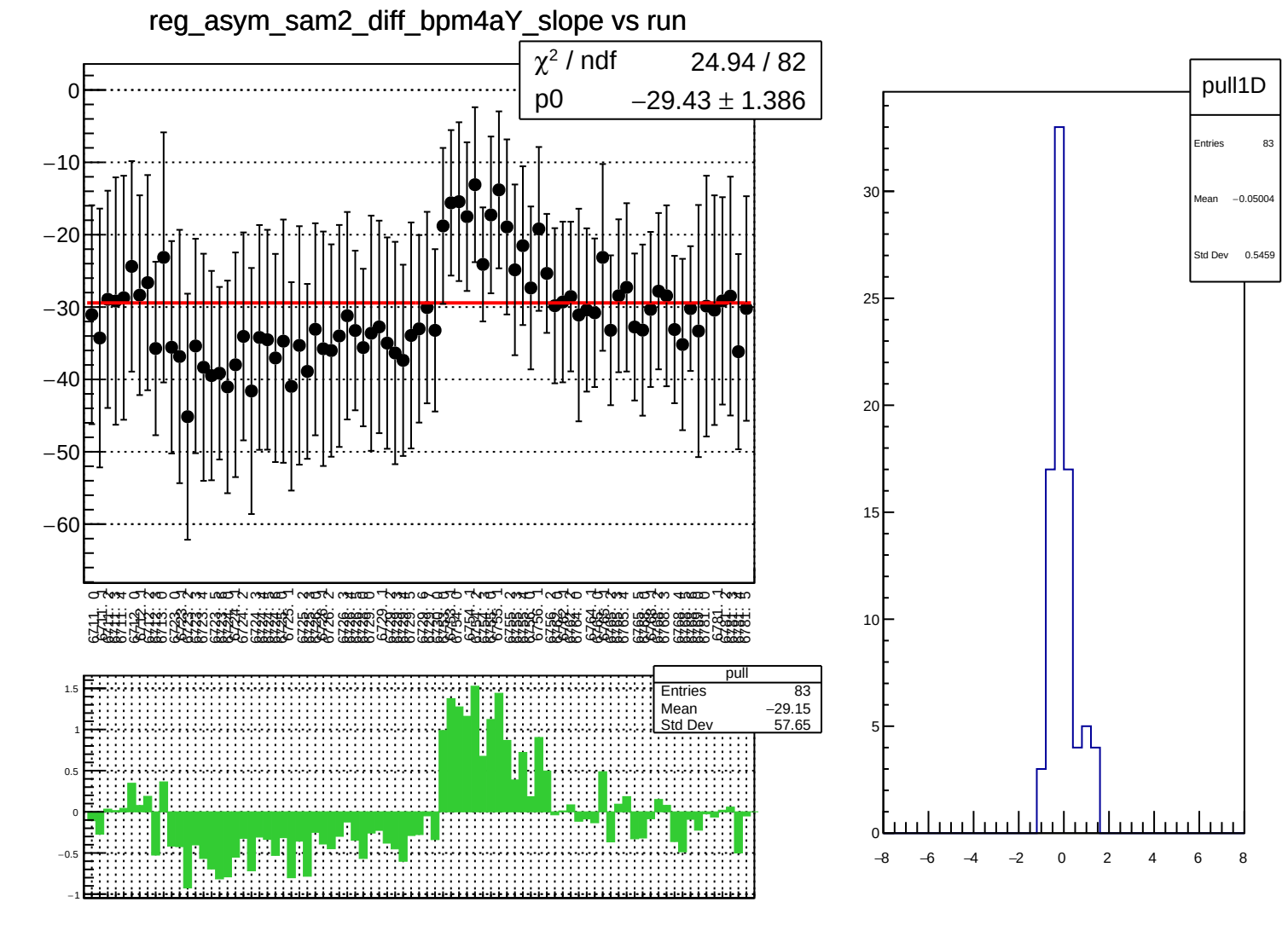

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 36.98 / 82
p0 10.59 ± 0.3795
pull
Entries 83
Mean −376.3
Std Dev 415.4

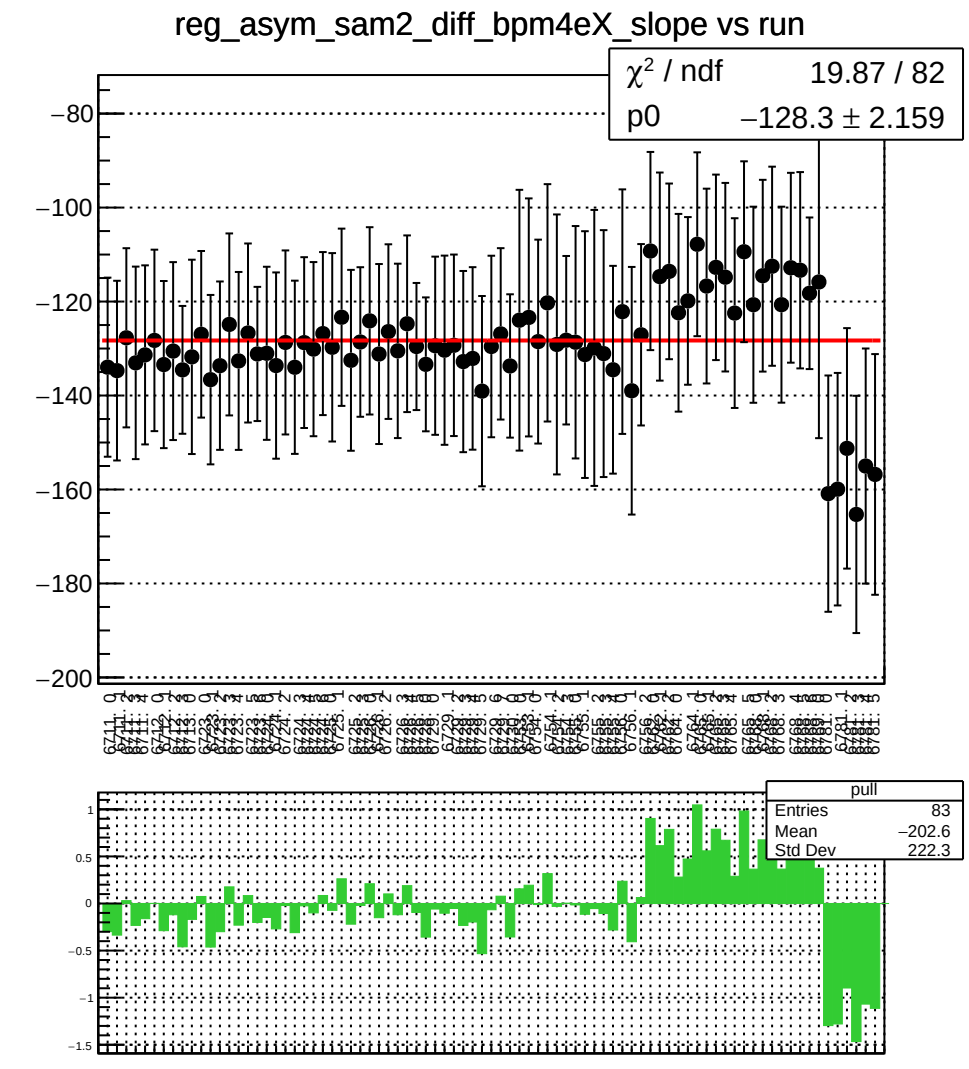

pull1D
Entries 83
Mean −0.02401
Std Dev 0.6671

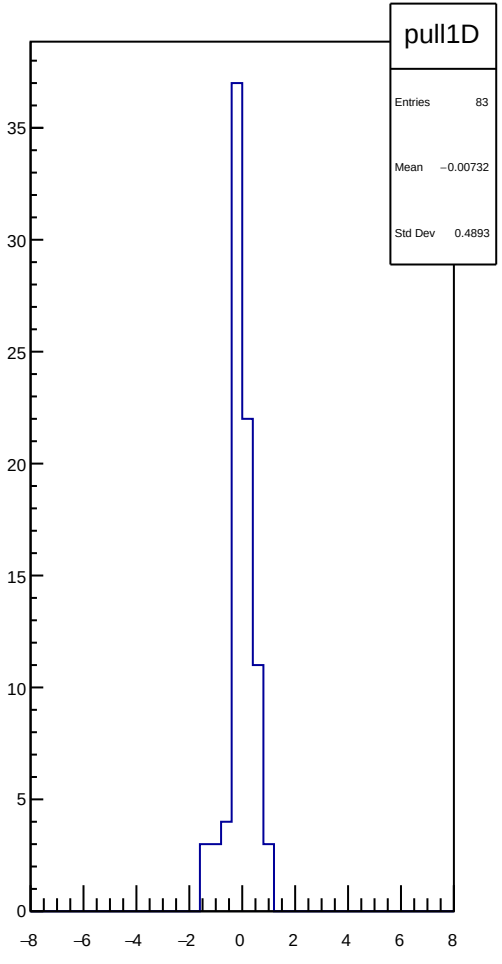

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 24.9 / 82
p0 0.4946 ± 0.0213
pull
Entries 83
Mean 316.6
Std Dev 306.7

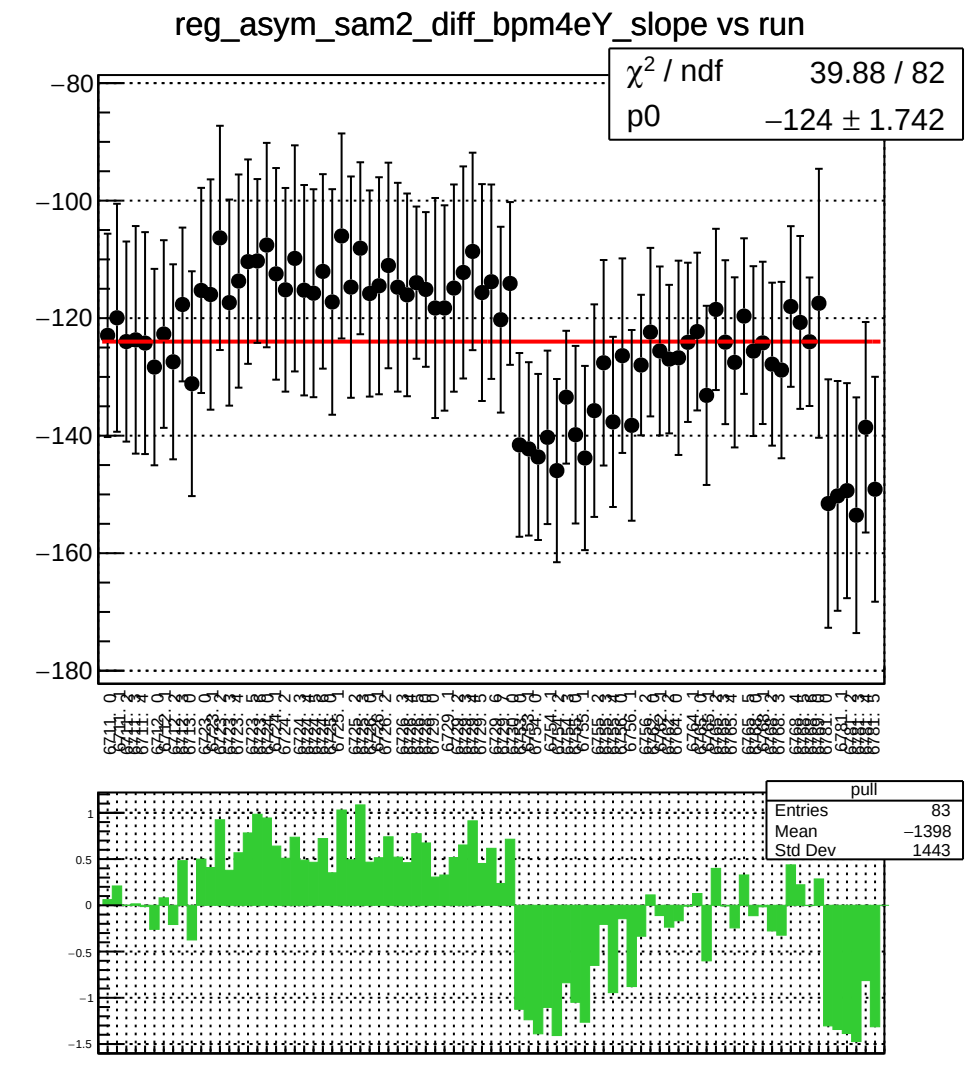

pull1D
Entries 83
Mean 0.007698
Std Dev 0.5476

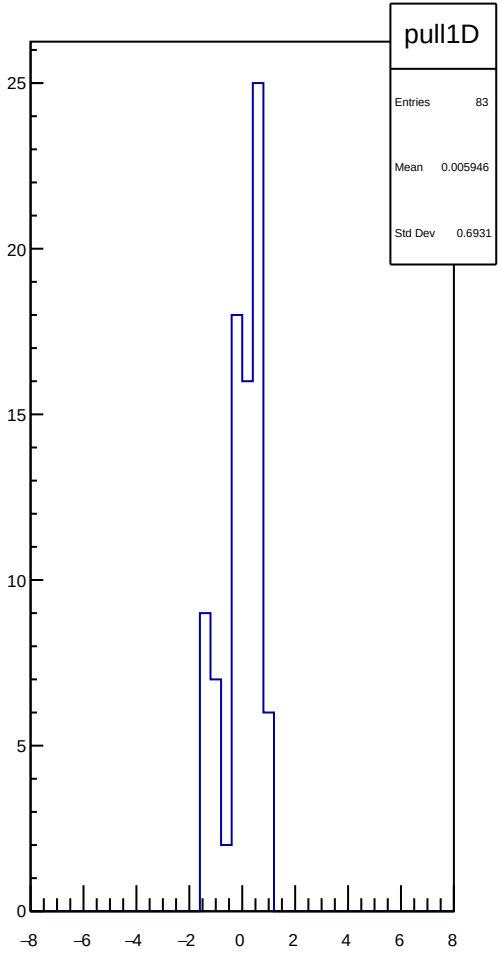

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 37.76 / 82
p0 −30.47 ± 2.251
pull
Entries 83
Mean 245.9
Std Dev 200.8
pull1D
Entries 83
Mean −0.06731
Std Dev 0.6711

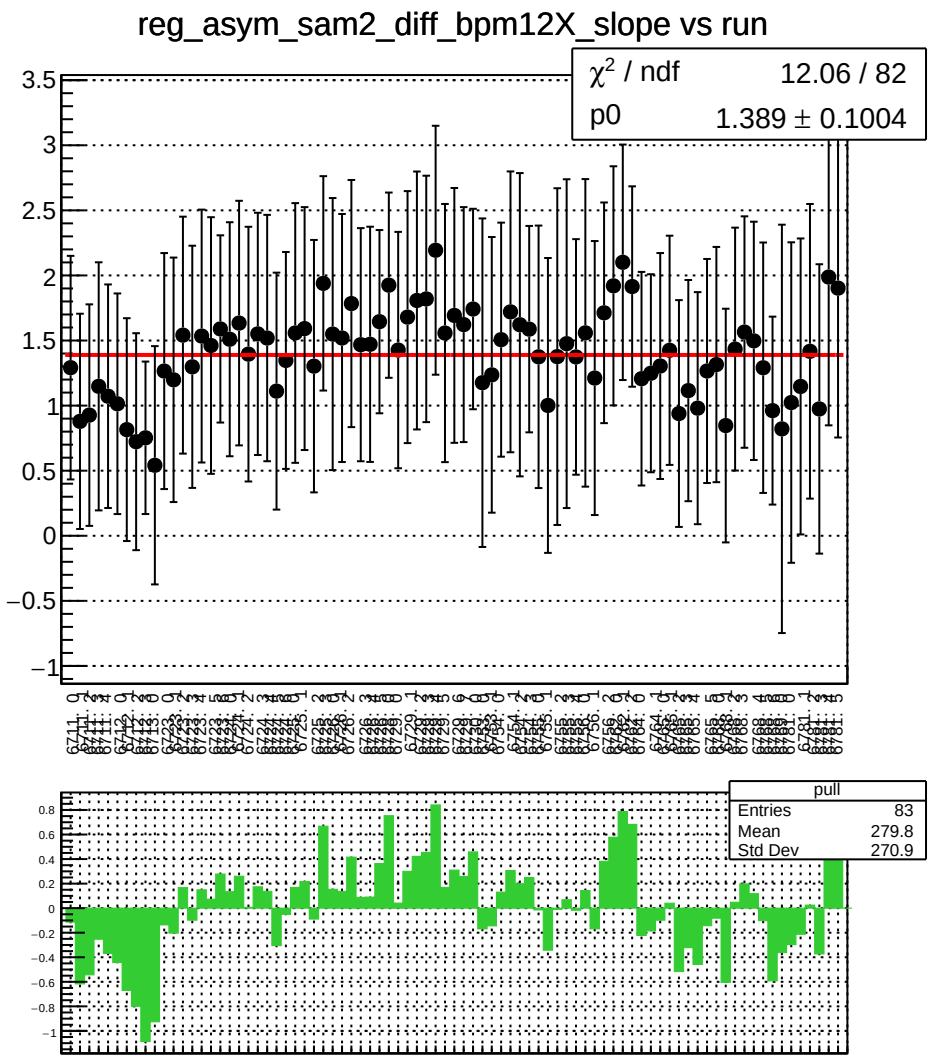

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 24.94 / 82
p0 −29.43 ± 1.386
pull
Entries 83
Mean −29.15
Std Dev 57.65
pull1D
Entries 83
Mean −0.05004
Std Dev 0.5459

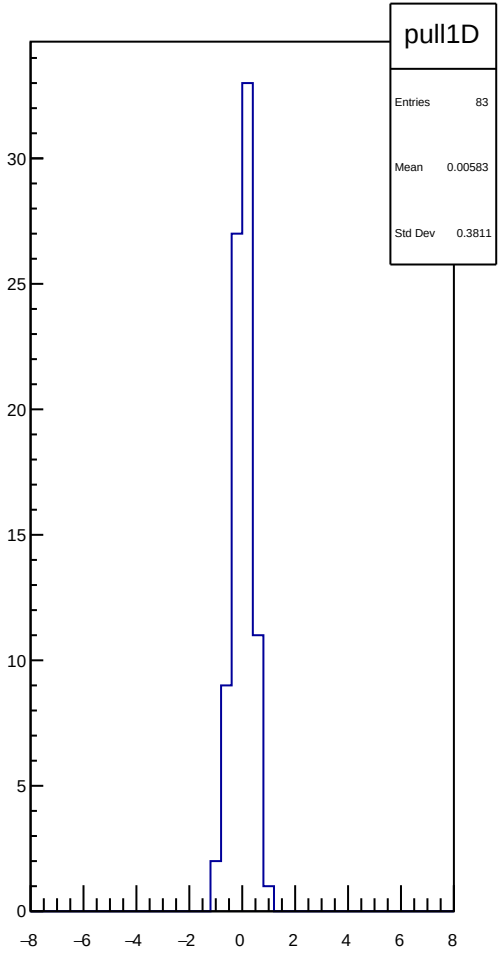

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 19.87 / 82
p0 −128.3 ± 2.159
pull
Entries 83
Mean −202.6
Std Dev 222.3

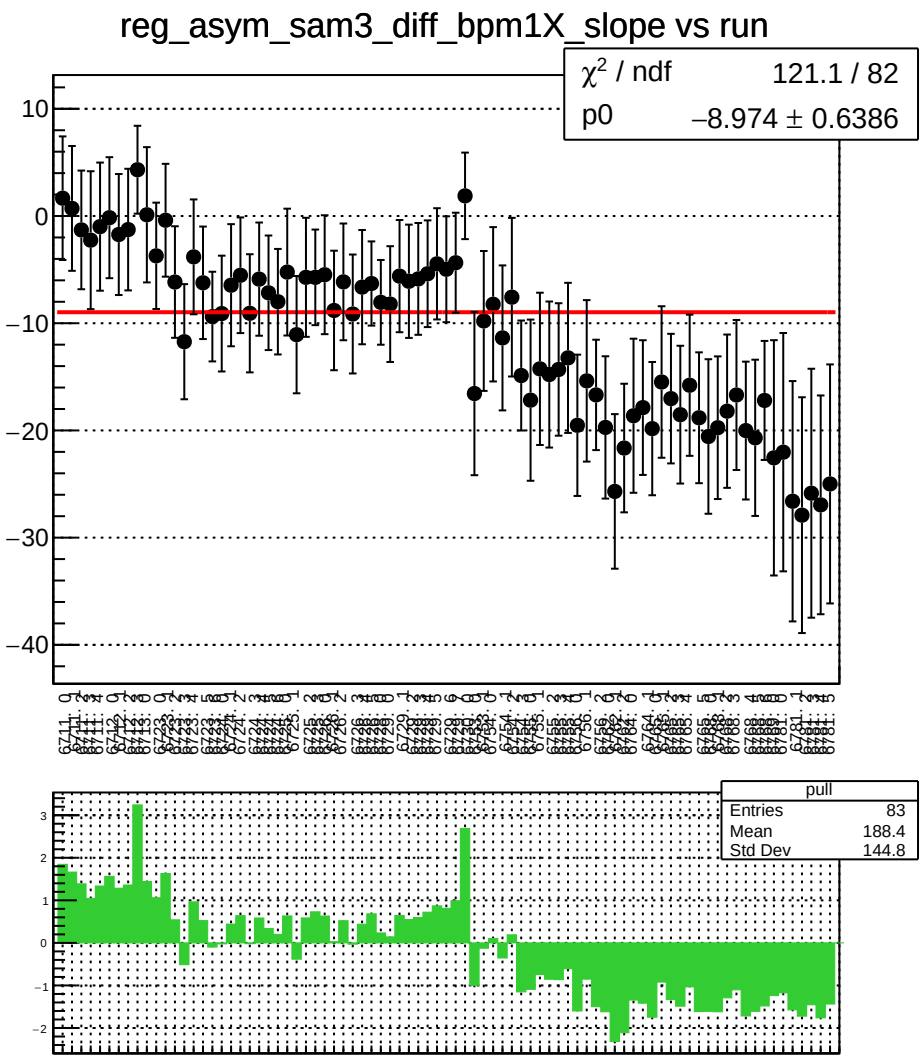

pull1D
Entries 83
Mean −0.00732
Std Dev 0.4893

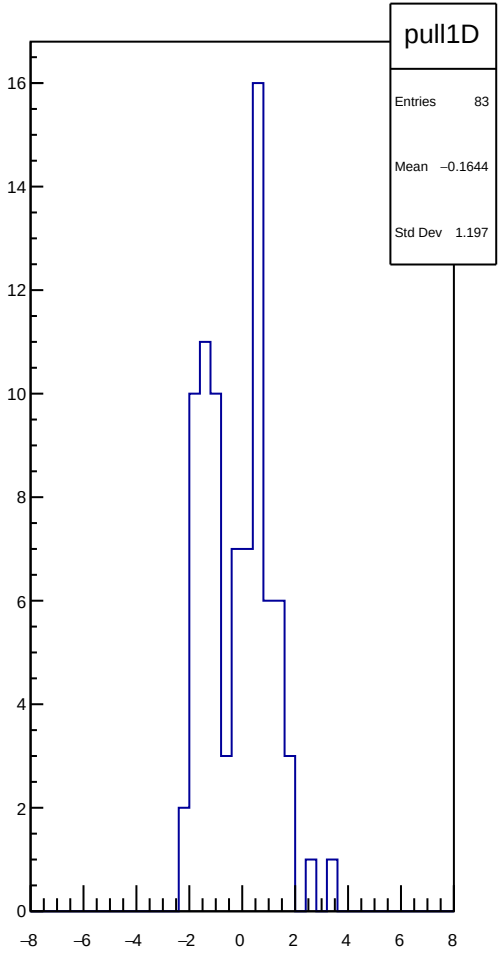

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 39.88 / 82
p0 −124 ± 1.742
pull
Entries 83
Mean −1398
Std Dev 1443

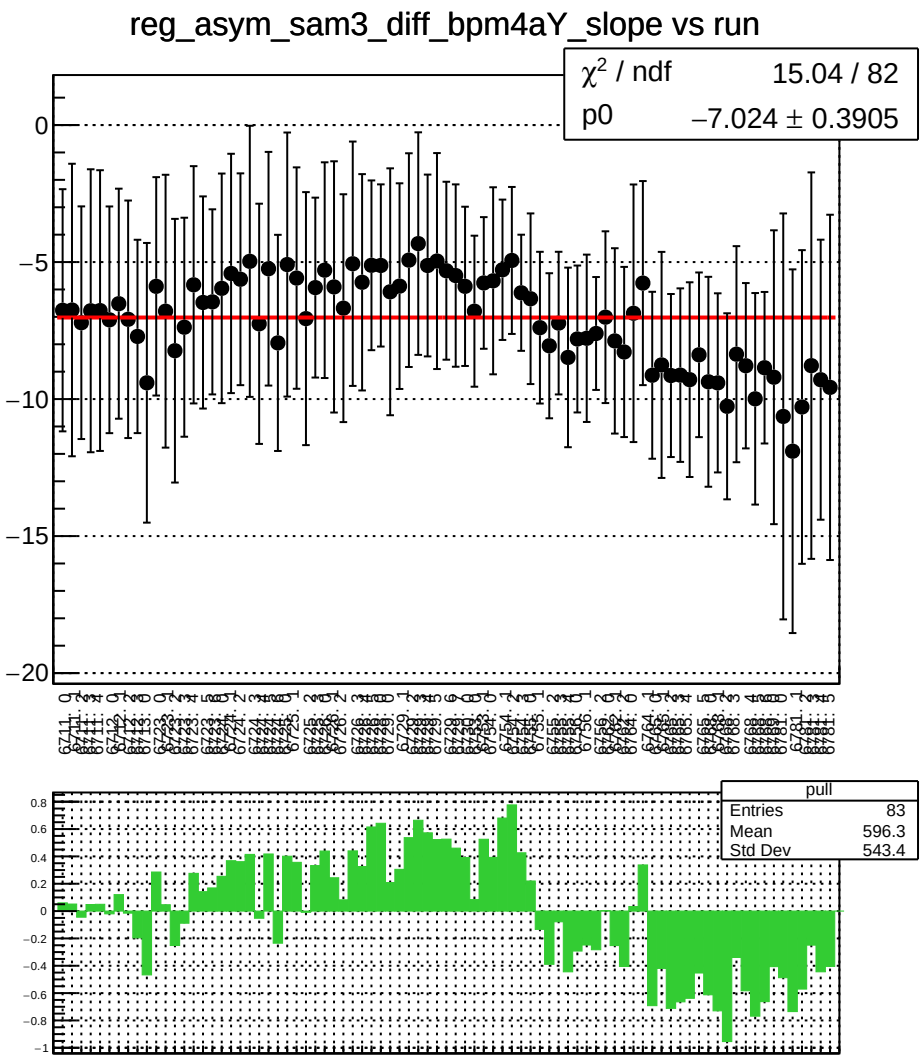

pull1D
Entries 83
Mean 0.005946
Std Dev 0.6931

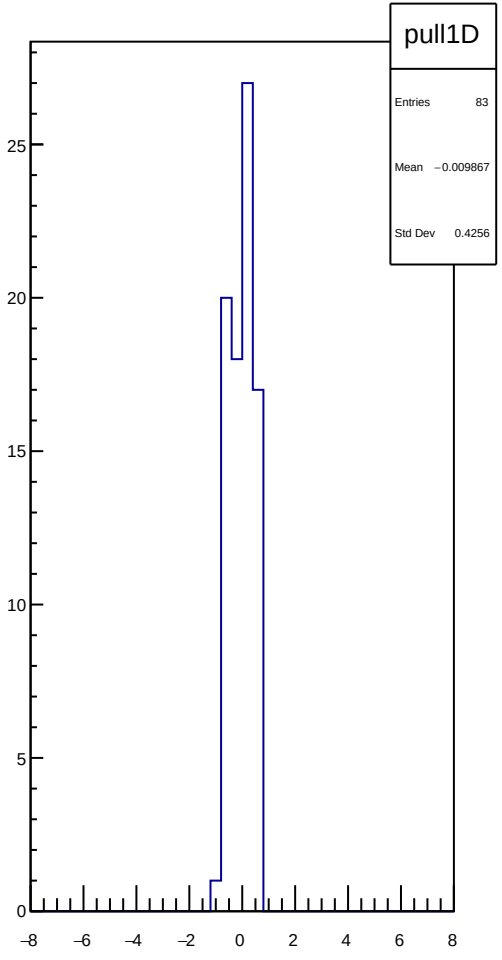

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 12.06 / 82
p0 1.389 ± 0.1004
pull
Entries 83
Mean 279.8
Std Dev 270.9

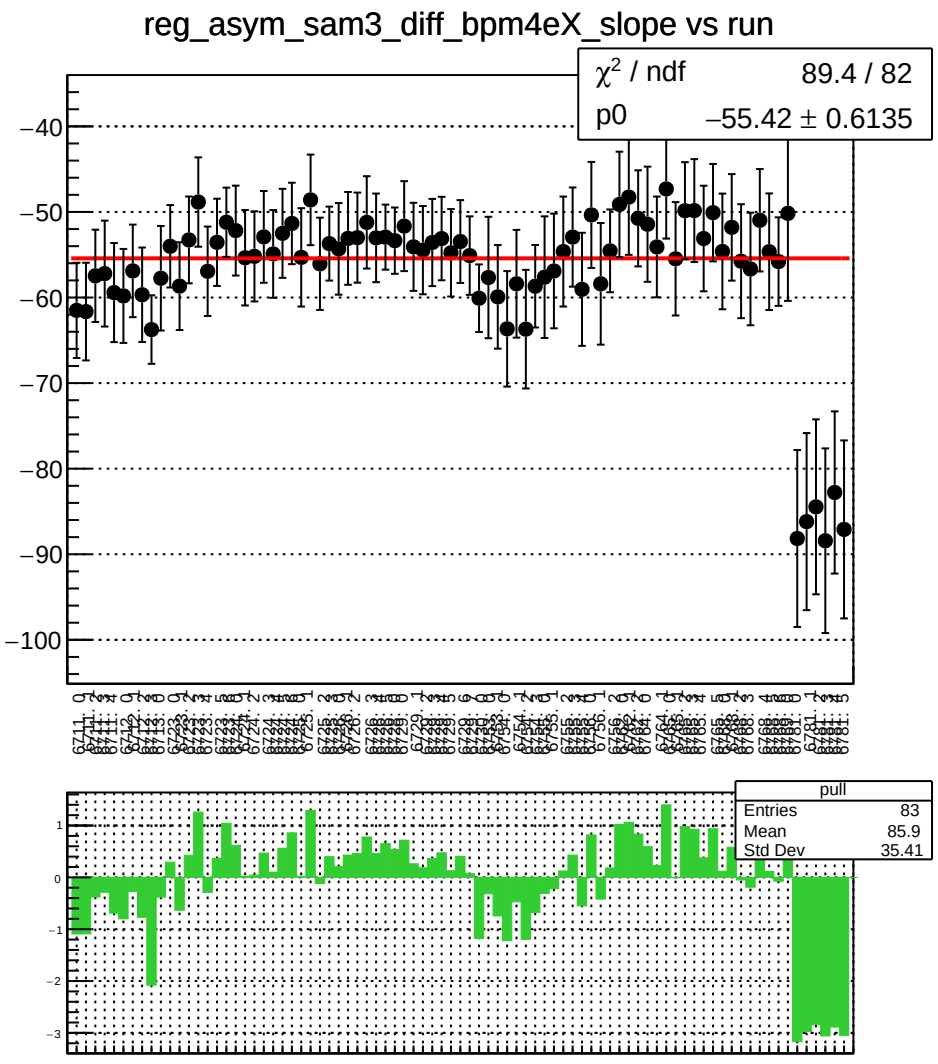

pull1D
Entries 83
Mean 0.00583
Std Dev 0.3811

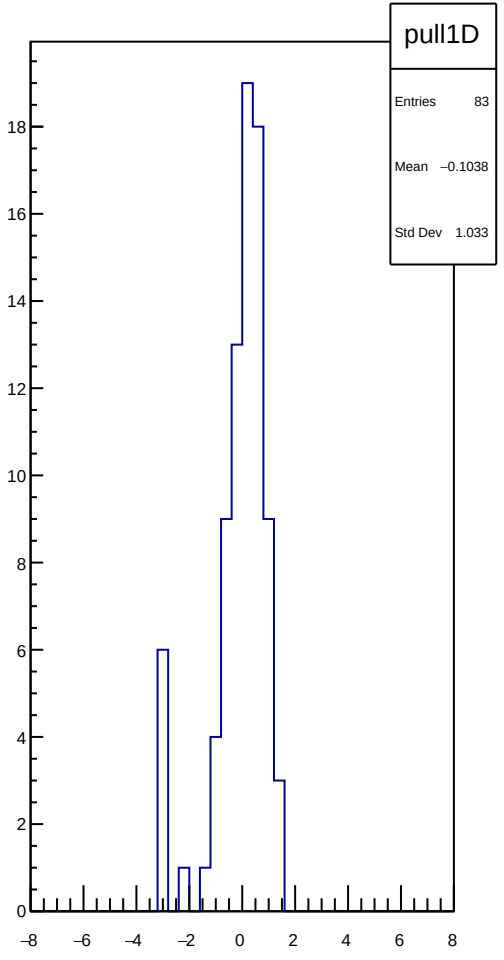

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 121.1 / 82
p0 −8.974 ± 0.6386
pull
Entries 83
Mean 188.4
Std Dev 144.8

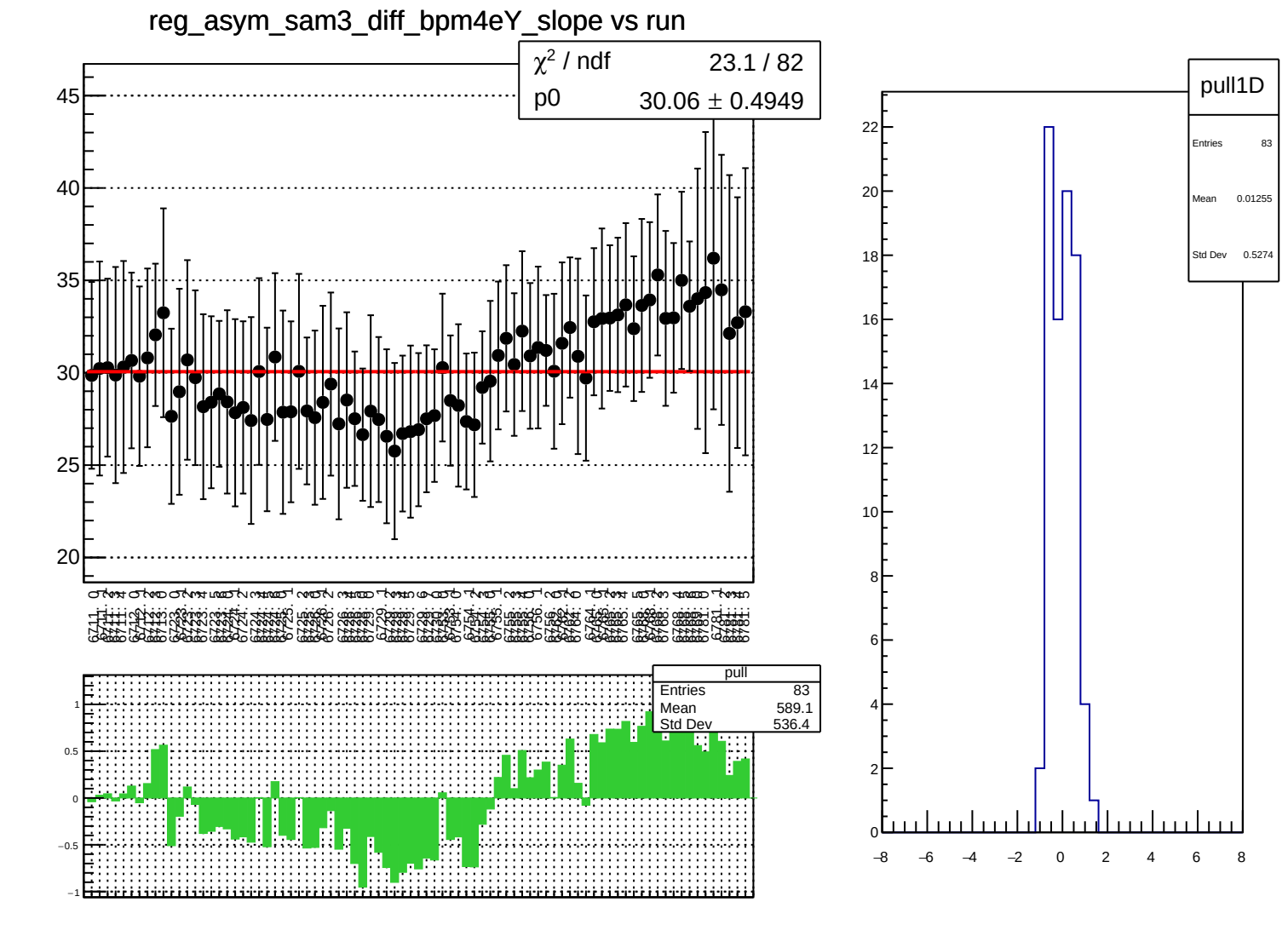

pull1D
Entries 83
Mean −0.1644
Std Dev 1.197

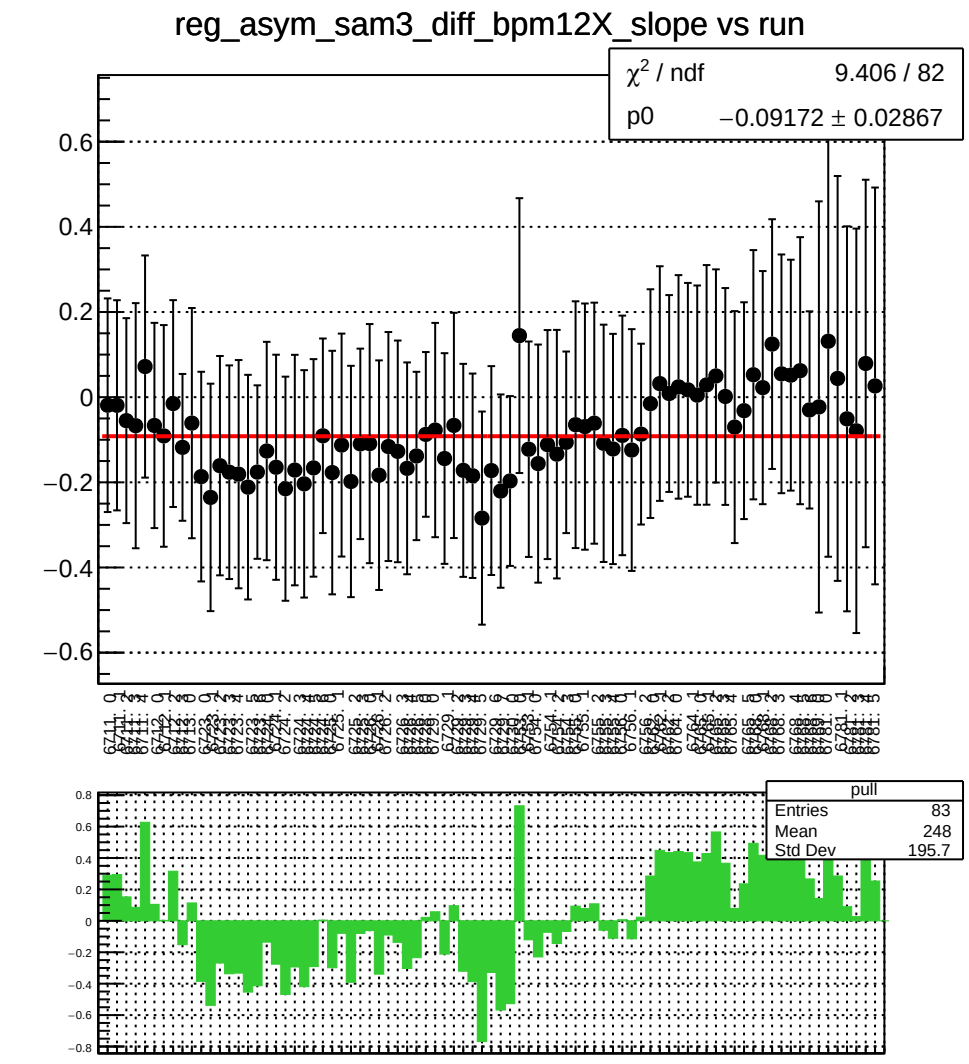

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 15.04 / 82
p0 −7.024 ± 0.3905
pull
Entries 83
Mean 596.3
Std Dev 543.4

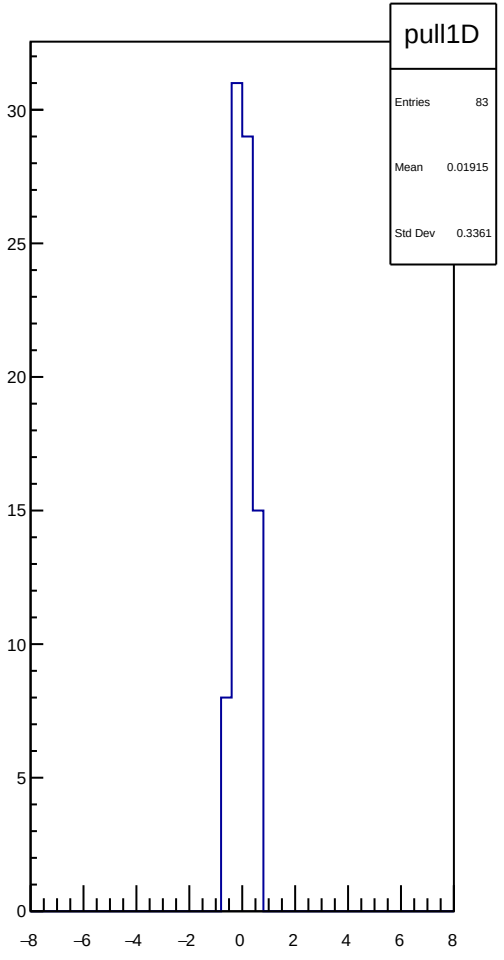

pull1D
Entries 83
Mean −0.009867
Std Dev 0.4256

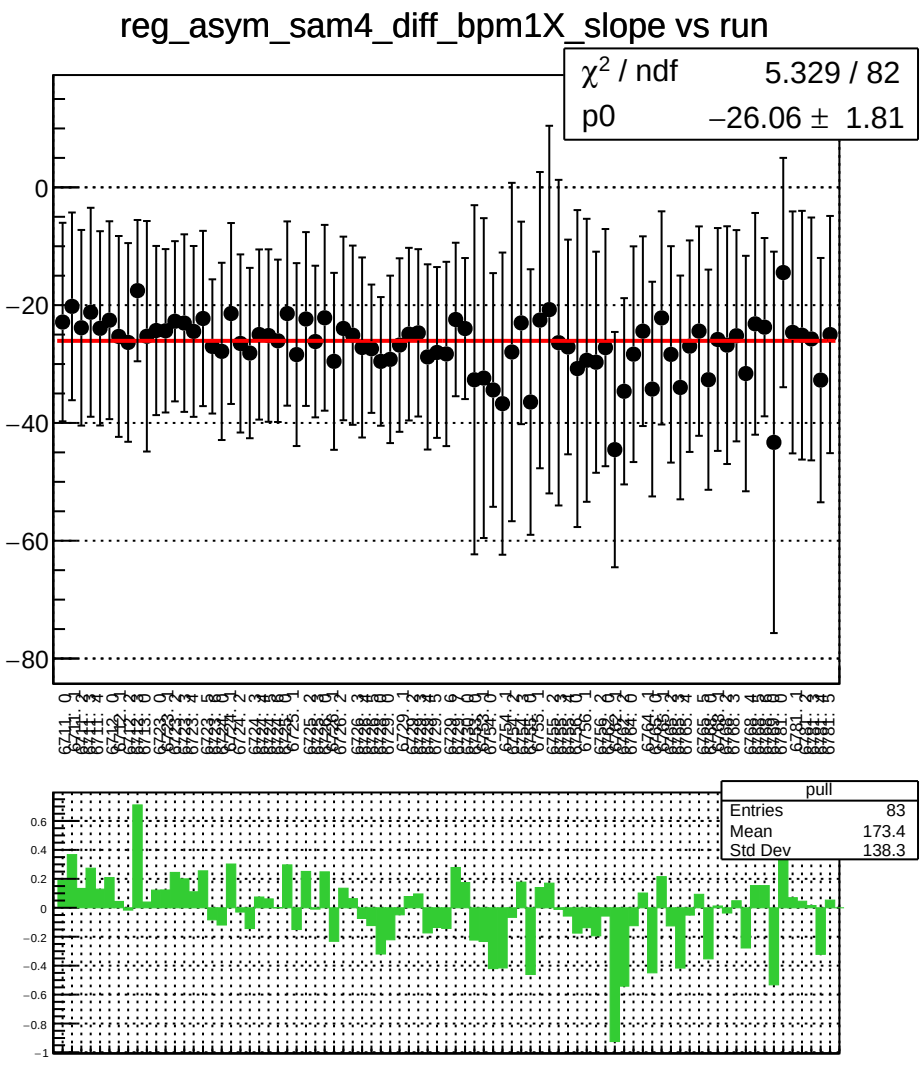

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 89.4 / 82
p0 −55.42 ± 0.6135
pull
Entries 83
Mean 85.9
Std Dev 35.41

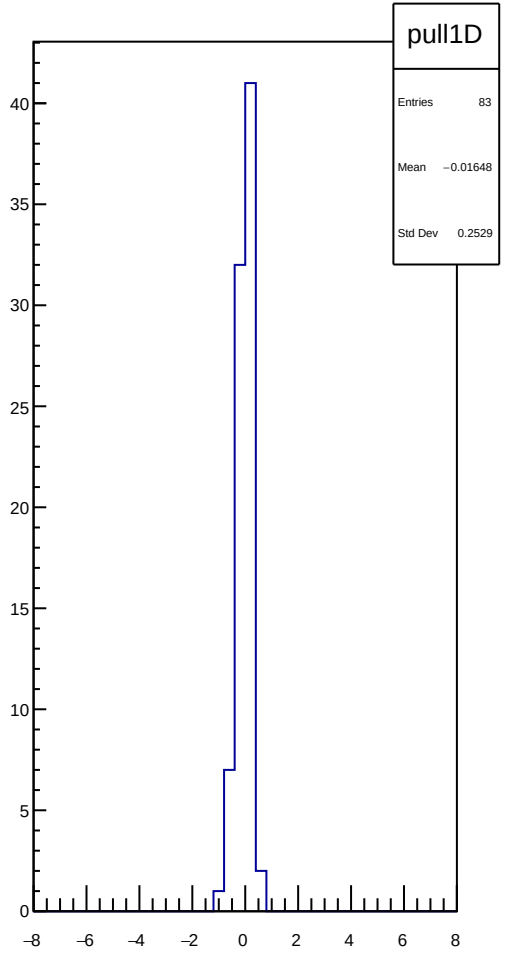

pull1D
Entries 83
Mean −0.1038
Std Dev 1.033

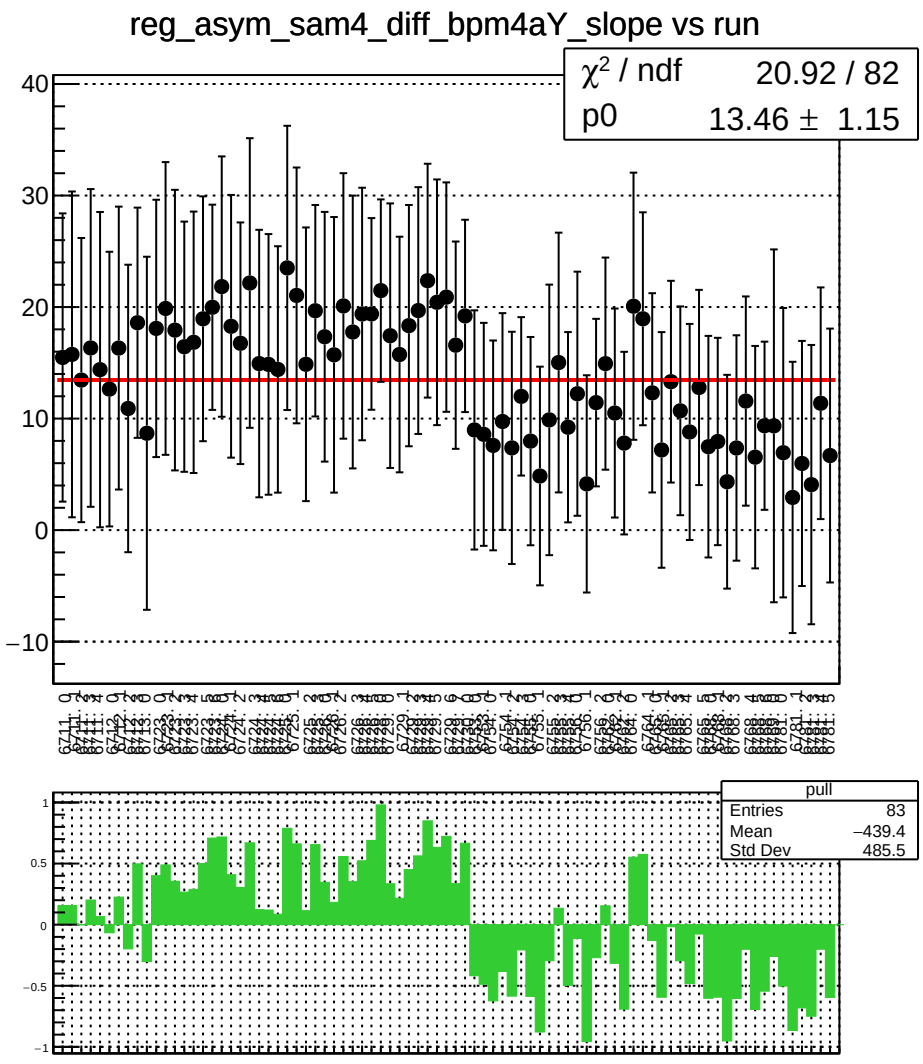

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 23.1 / 82
p0 30.06 ± 0.4949
pull
Entries 83
Mean 589.1
Std Dev 536.4
pull1D
Entries 83
Mean 0.01255
Std Dev 0.5274

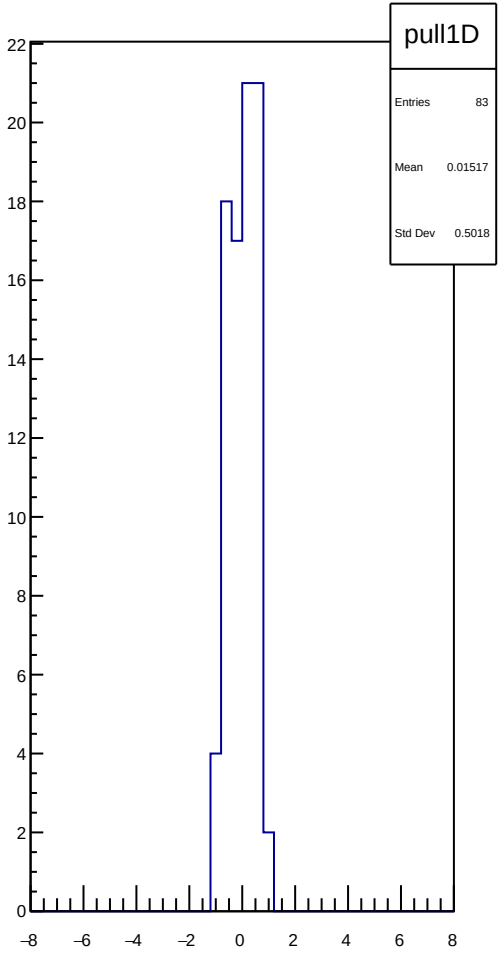

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 9.406 / 82
p0 −0.09172 ± 0.02867
pull
Entries 83
Mean 248
Std Dev 195.7

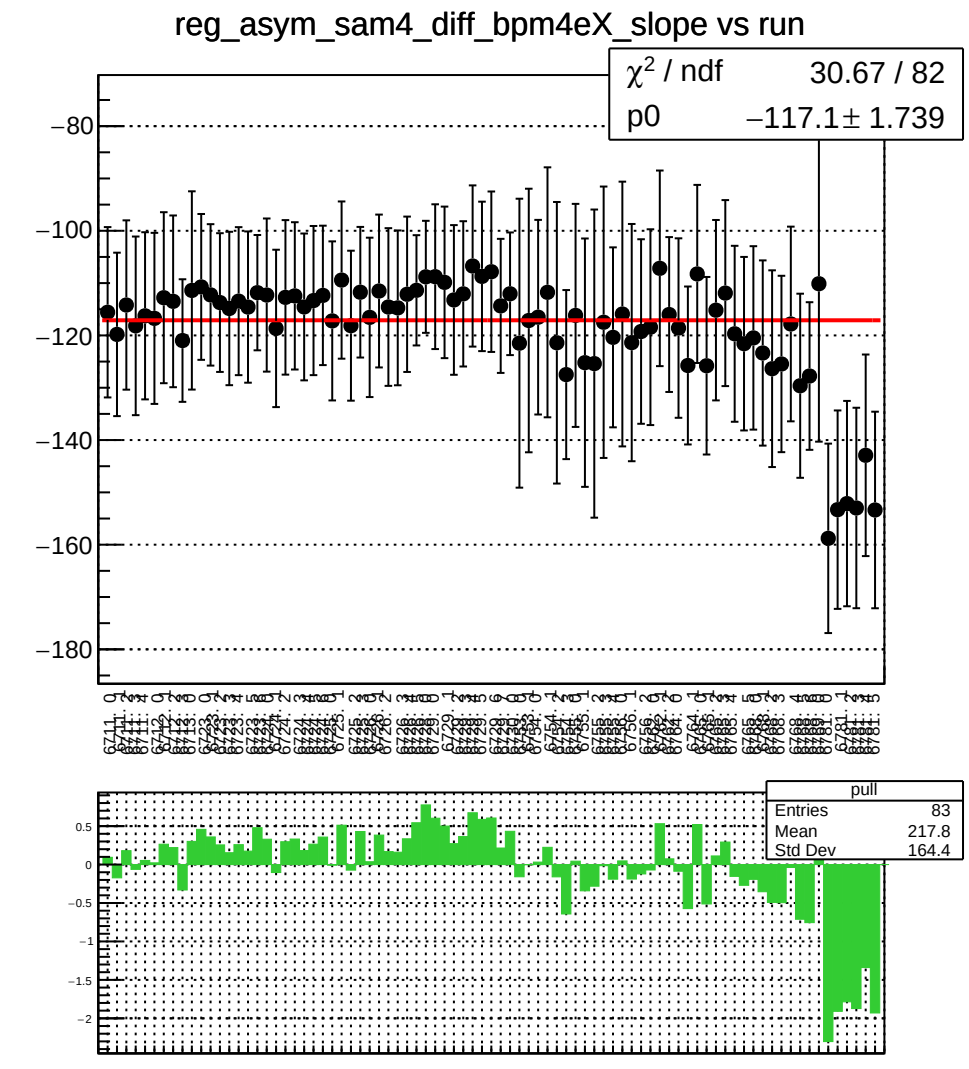

pull1D
Entries 83
Mean 0.01915
Std Dev 0.3361

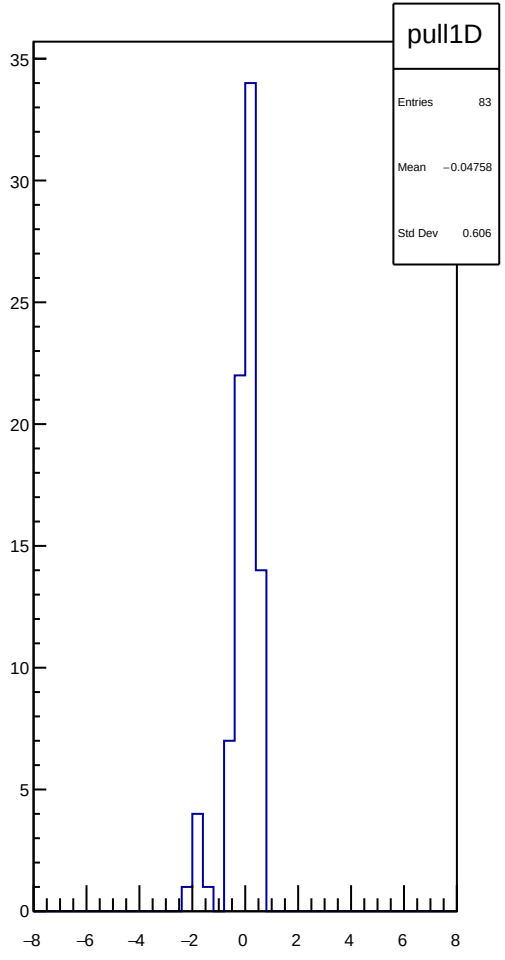

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 5.329 / 82
p0 −26.06 ± 1.81
pull
Entries 83
Mean 173.4
Std Dev 138.3

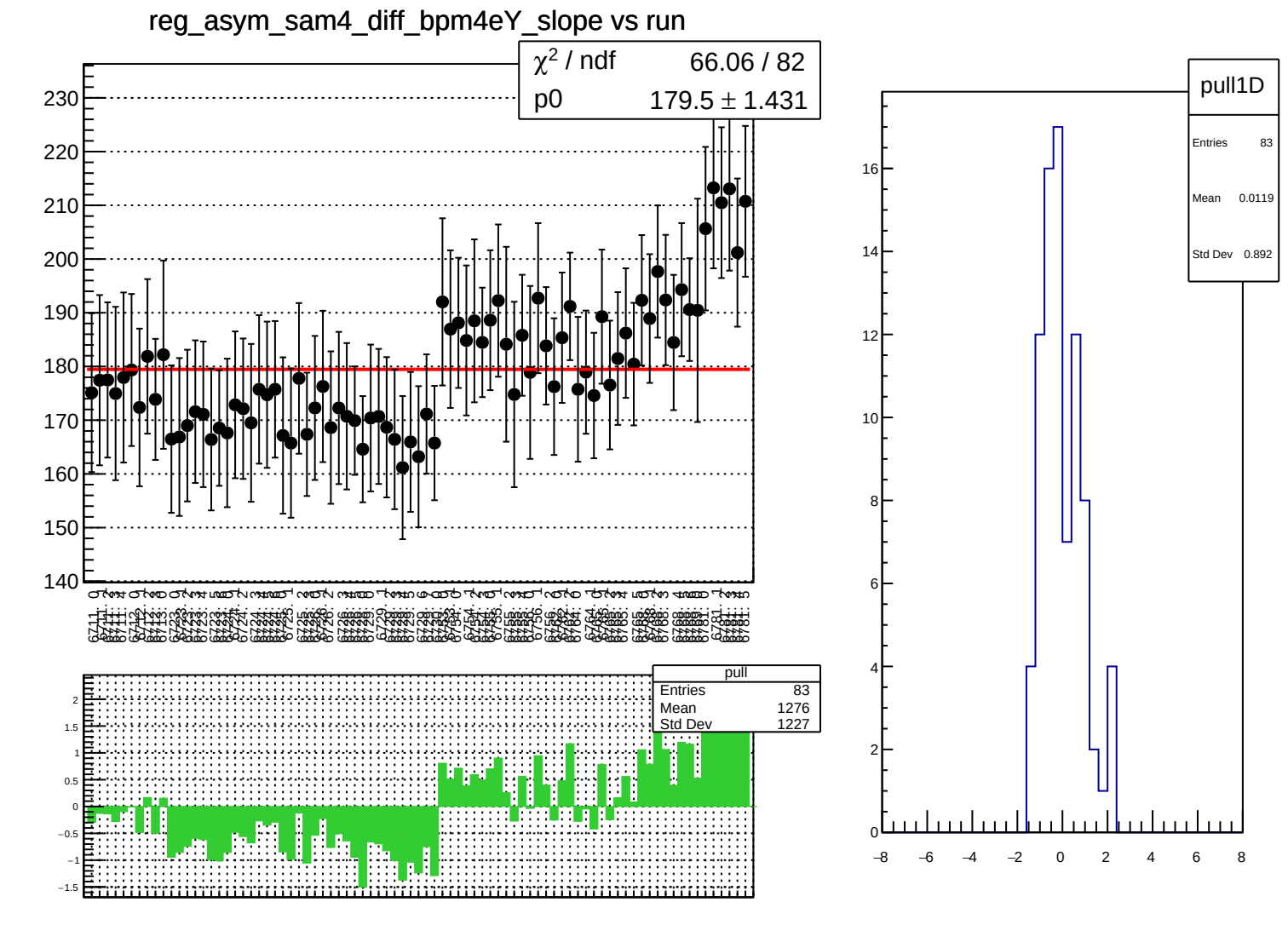

pull1D
Entries 83
Mean −0.01648
Std Dev 0.2529

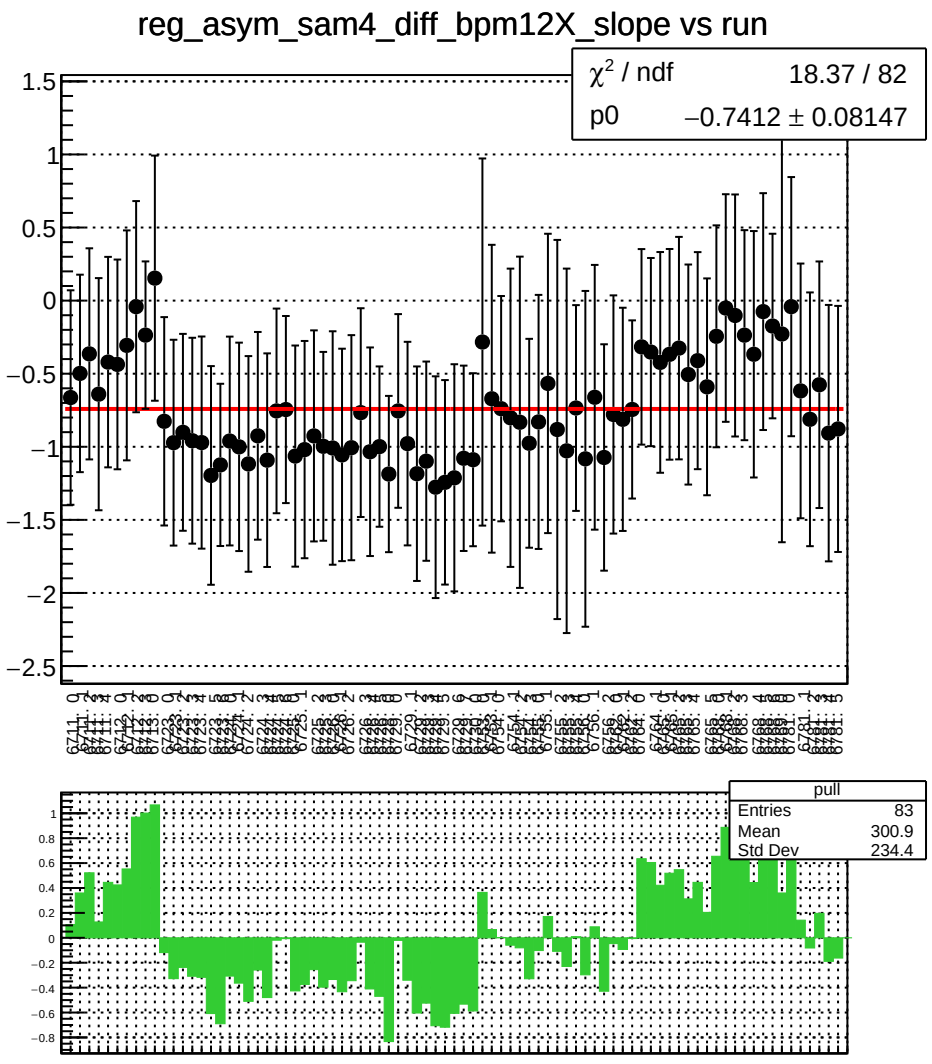

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 20.92 / 82
p0 13.46 ± 1.15
pull
Entries 83
Mean −439.4
Std Dev 485.5

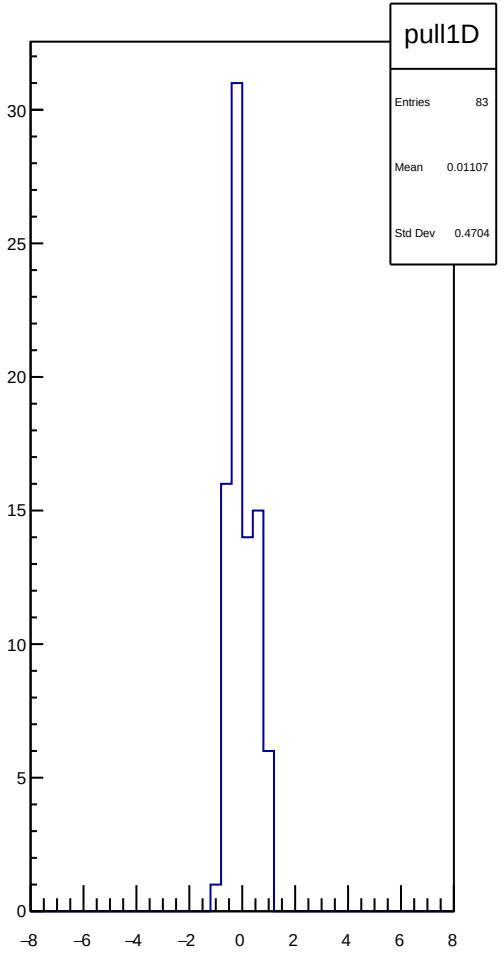

pull1D
Entries 83
Mean 0.01517
Std Dev 0.5018

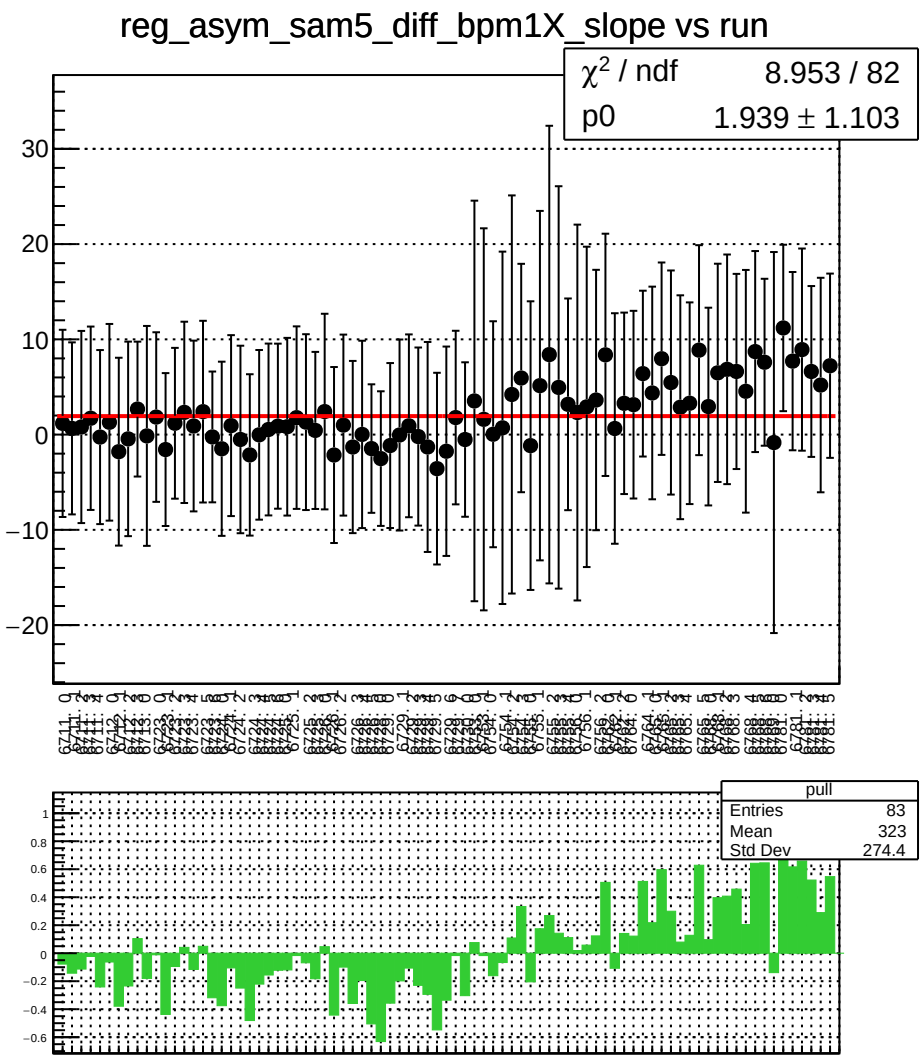

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 30.67 / 82
p0 −117.1± 1.739
−80
−100
−120
−140
−160
−180
pull
Entries 83
Mean 217.8
Std Dev 164.4
0.5
0
−0.5
−1
−1.5
−2

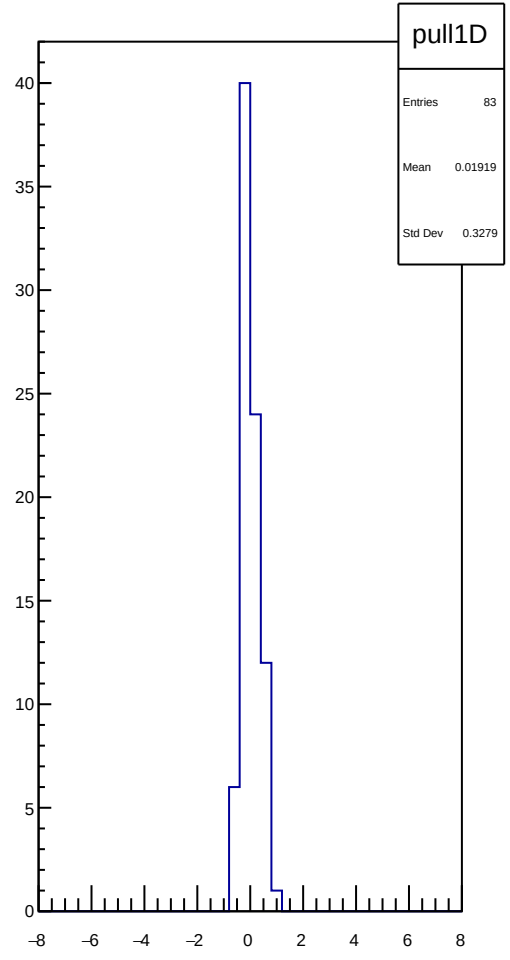

pull1D
Entries 83
Mean −0.04758
Std Dev 0.606
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

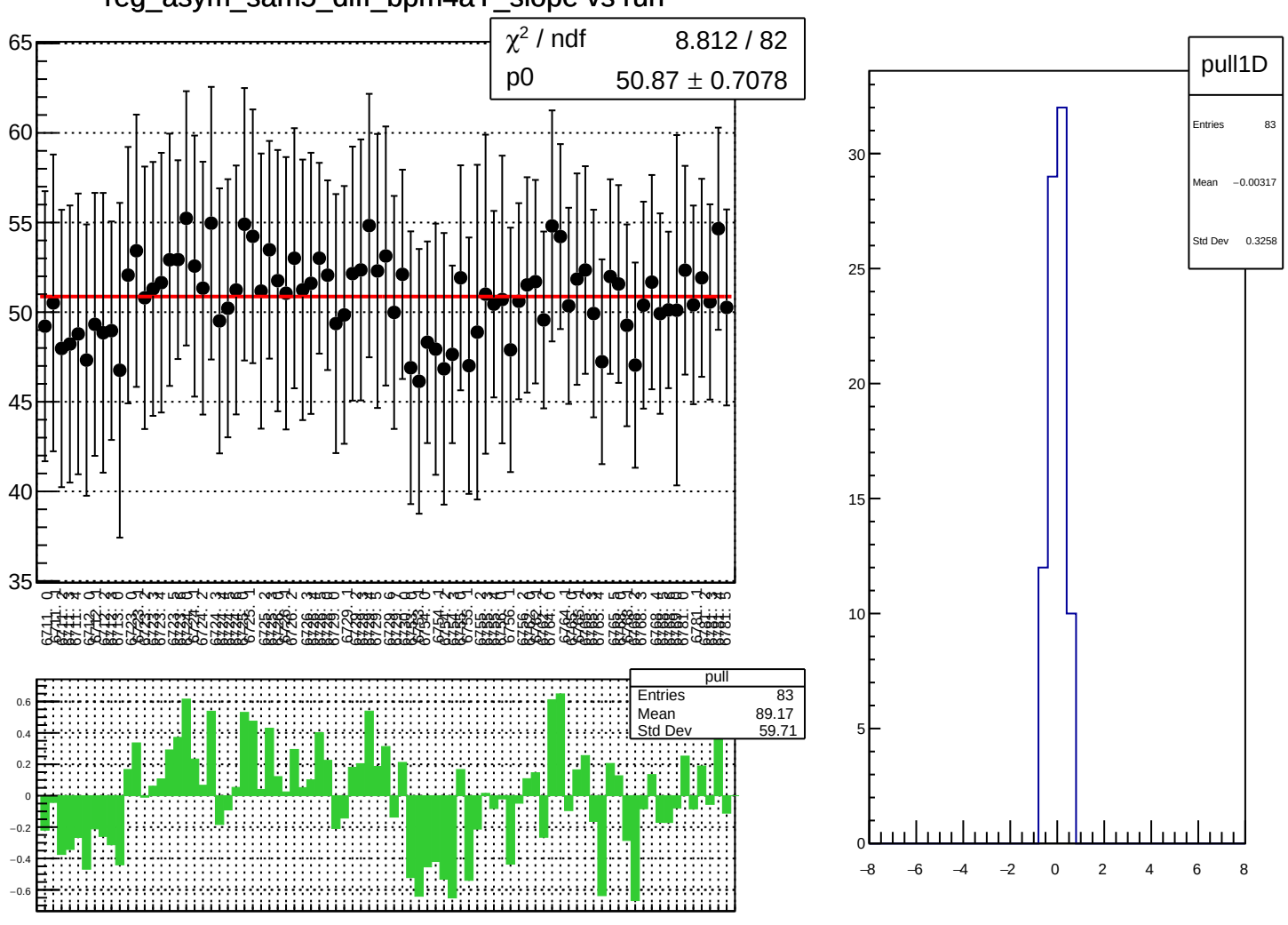

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 66.06 / 82
p0 179.5 ± 1.431
pull
Entries 83
Mean 1276
Std Dev 1227
pull1D
Entries 83
Mean 0.0119
Std Dev 0.892

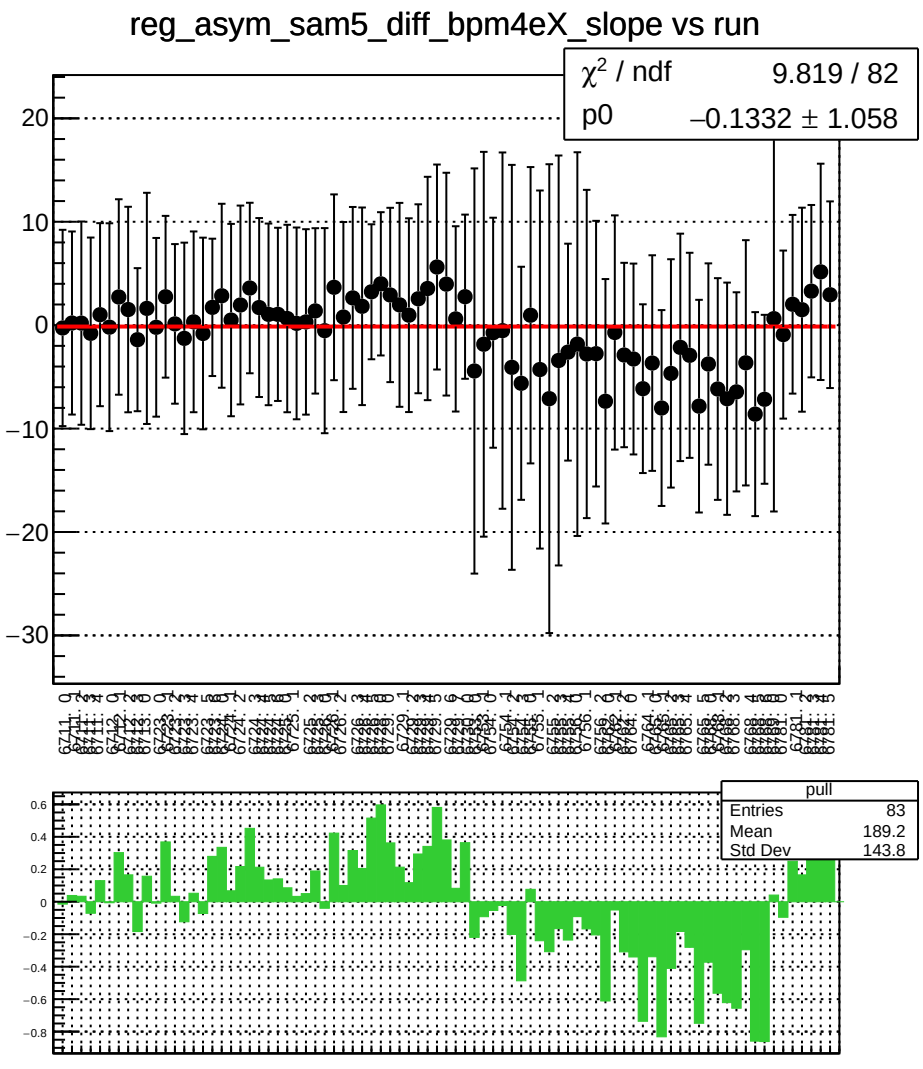

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 18.37 / 82
p0 −0.7412 ± 0.08147
pull
Entries 83
Mean 300.9
Std Dev 234.4

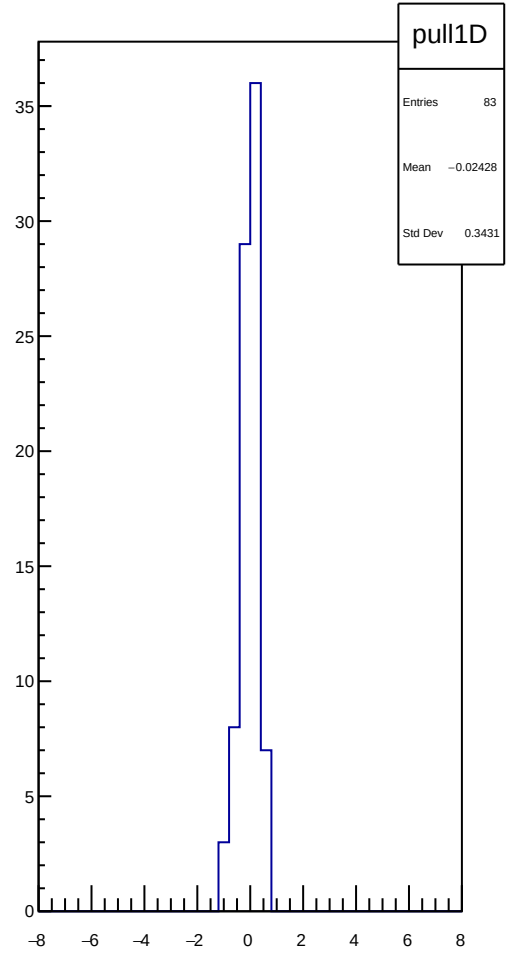

pull1D
Entries 83
Mean 0.01107
Std Dev 0.4704

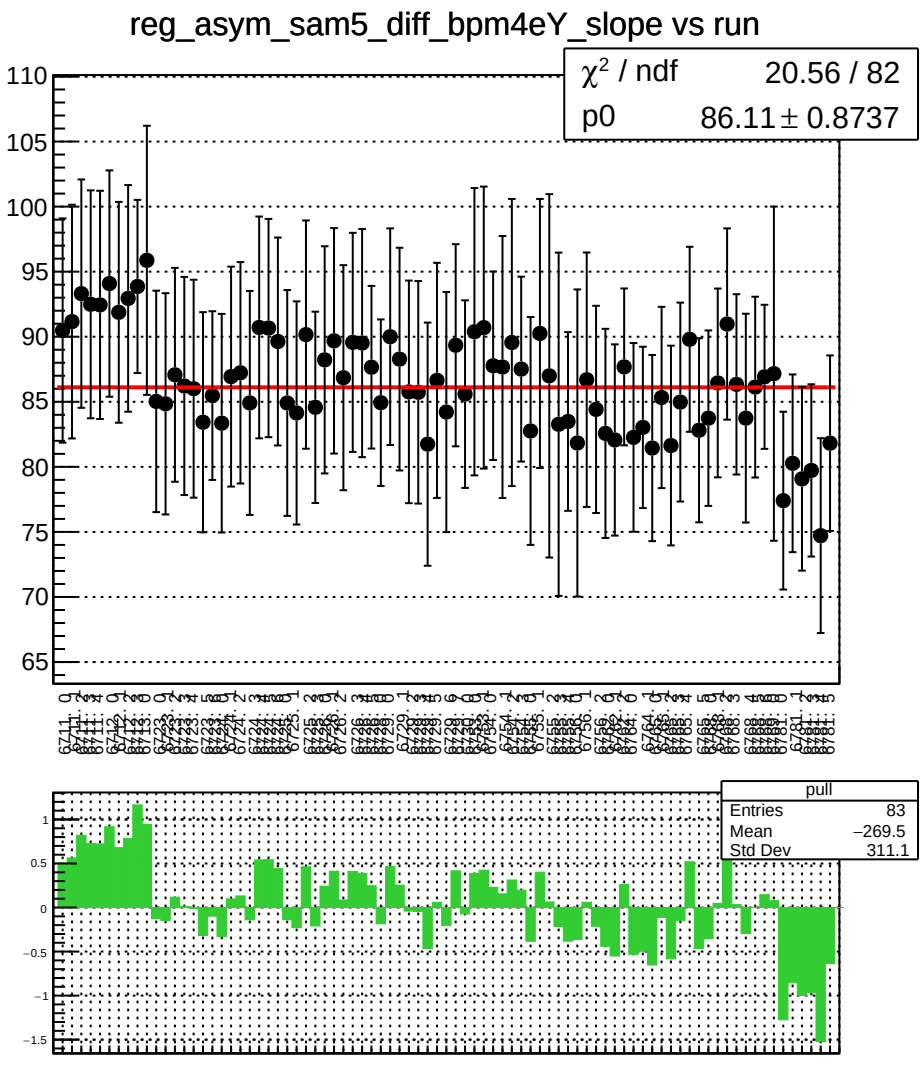

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 8.953 / 82
p0 1.939 ± 1.103
pull
Entries 83
Mean 323
Std Dev 274.4

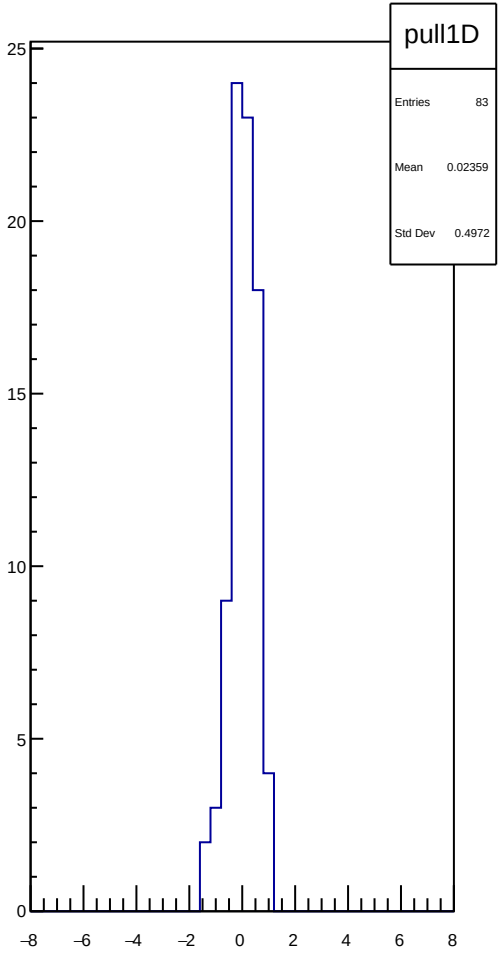

pull1D
Entries 83
Mean 0.01919
Std Dev 0.3279

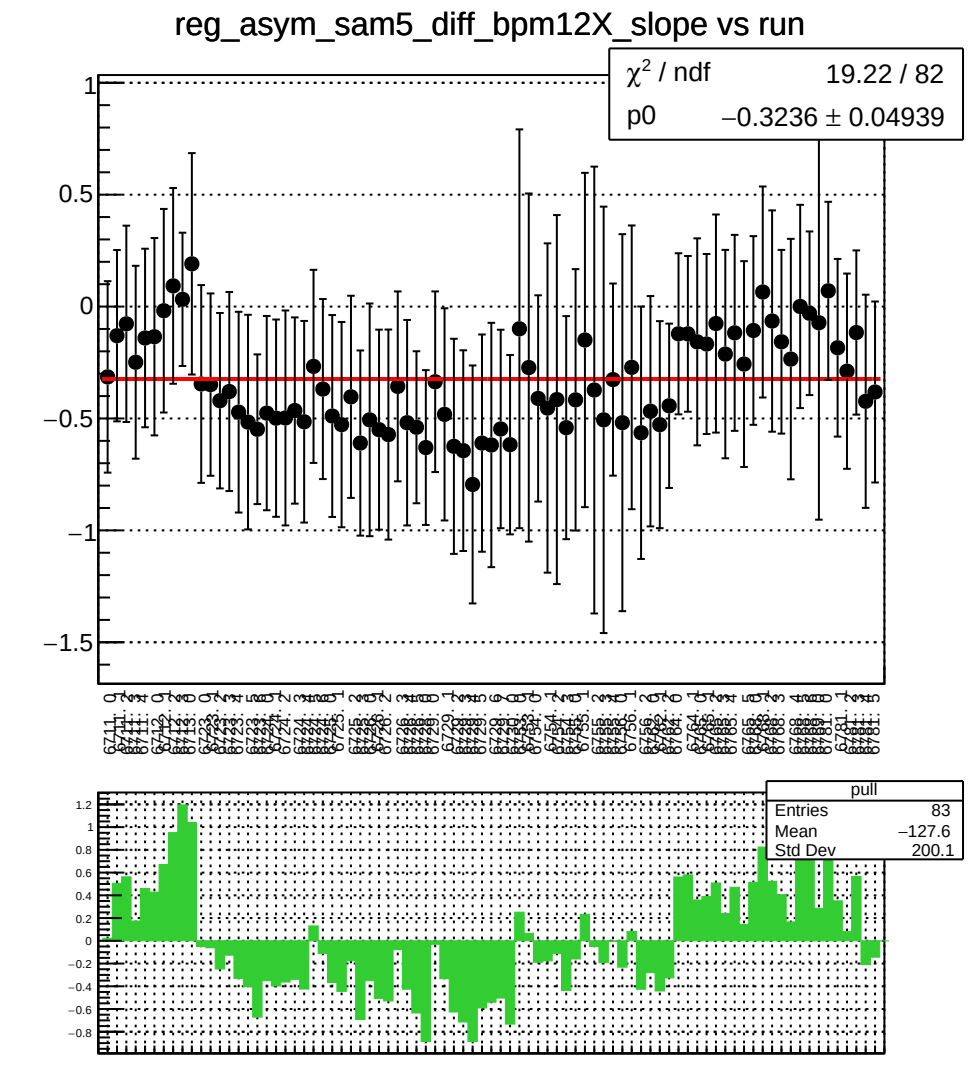

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 8.812 / 82
p0 50.87 ± 0.7078
pull
Entries 83
Mean 89.17
Std Dev 59.71
pull1D
Entries 83
Mean −0.00317
Std Dev 0.3258

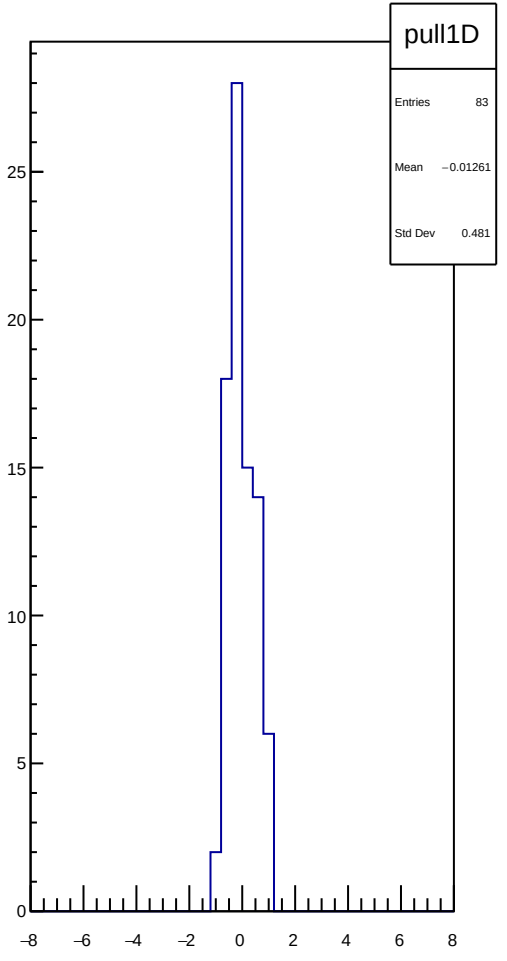

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 9.819 / 82
p0 −0.1332 ± 1.058
pull
Entries 83
Mean 189.2
Std Dev 143.8

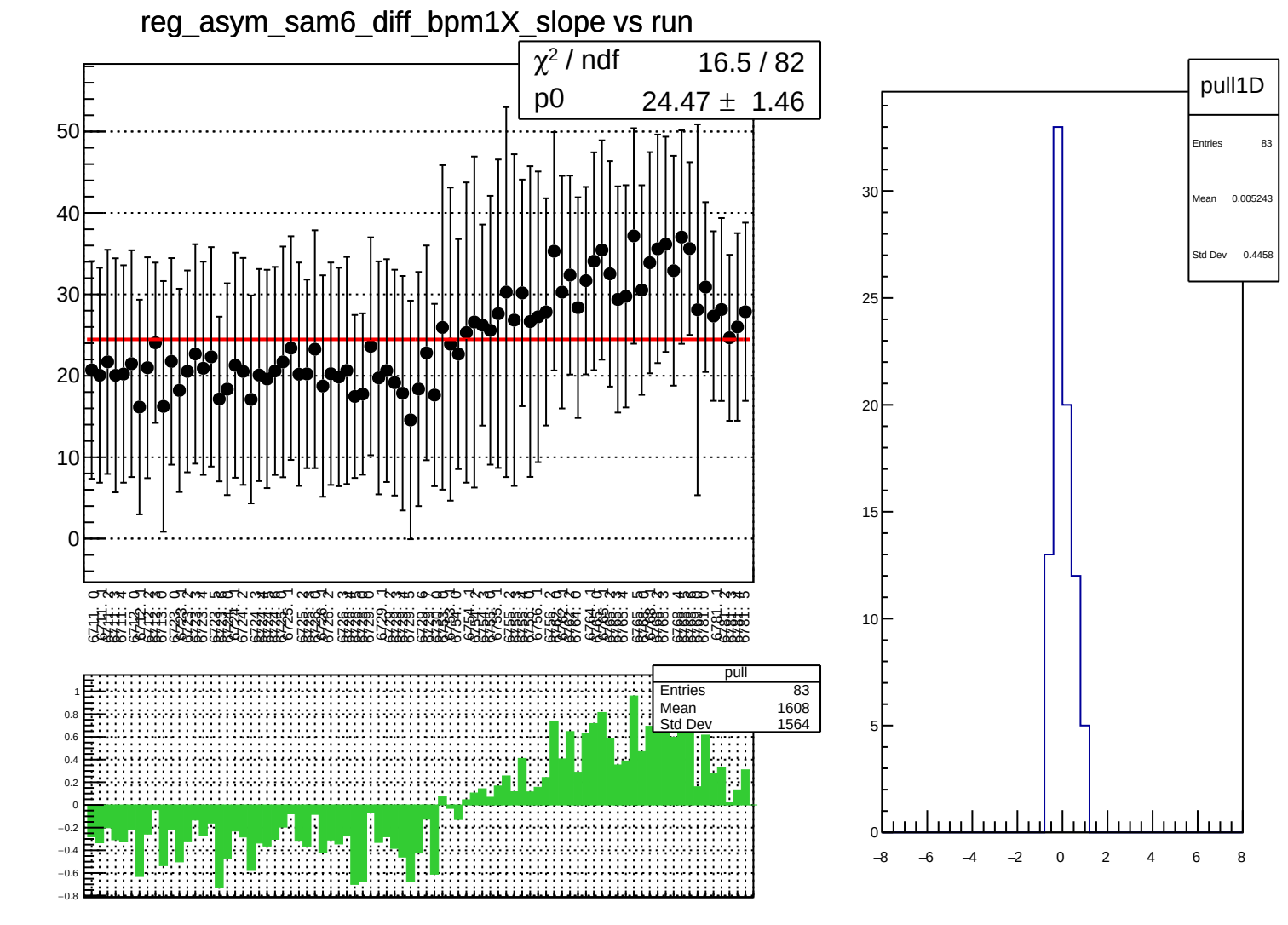

pull1D
Entries 83
Mean −0.02428
Std Dev 0.3431

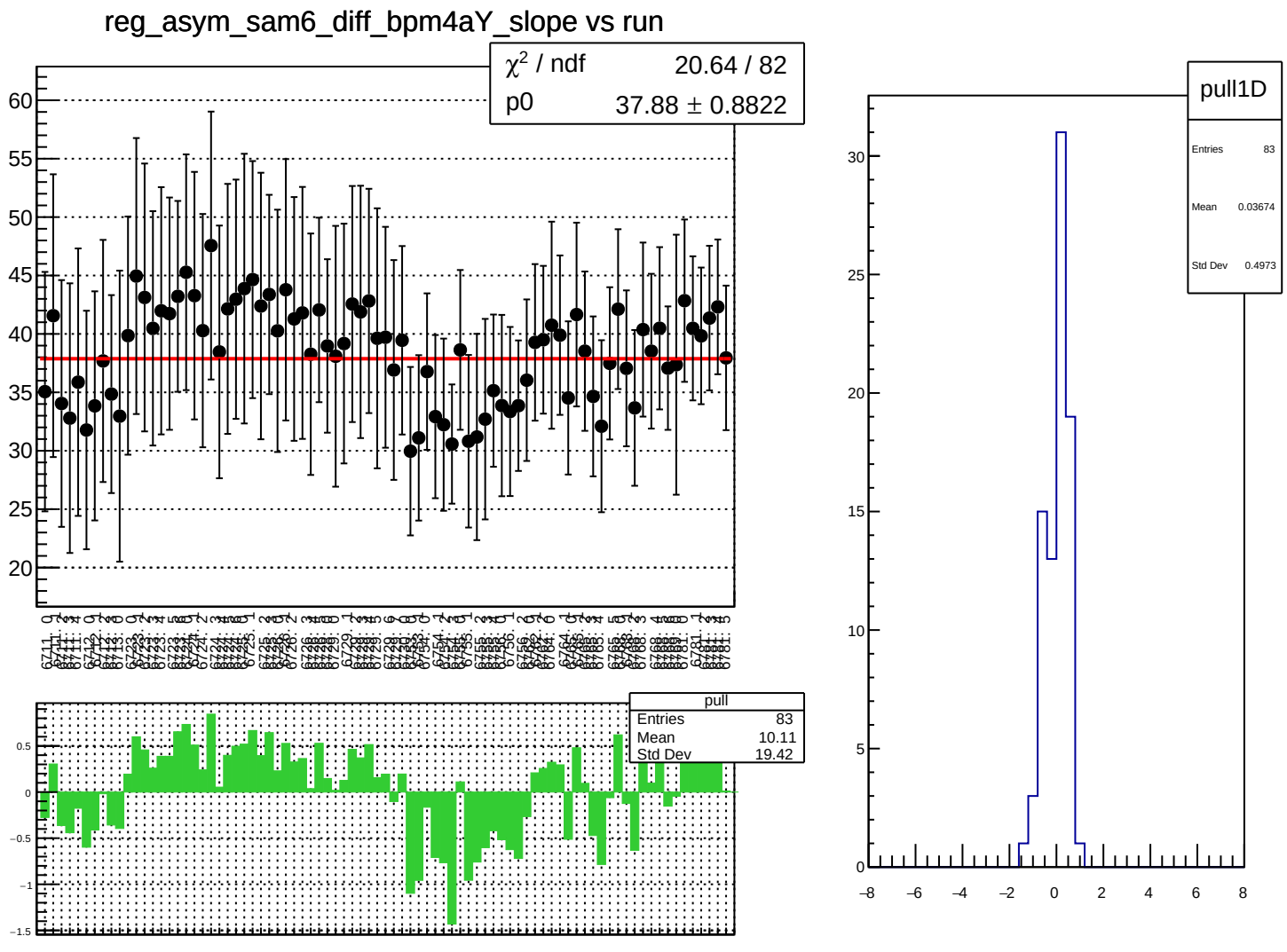

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 20.56 / 82
p0 86.11 ± 0.8737
pull
Entries 83
Mean −269.5
Std Dev 311.1

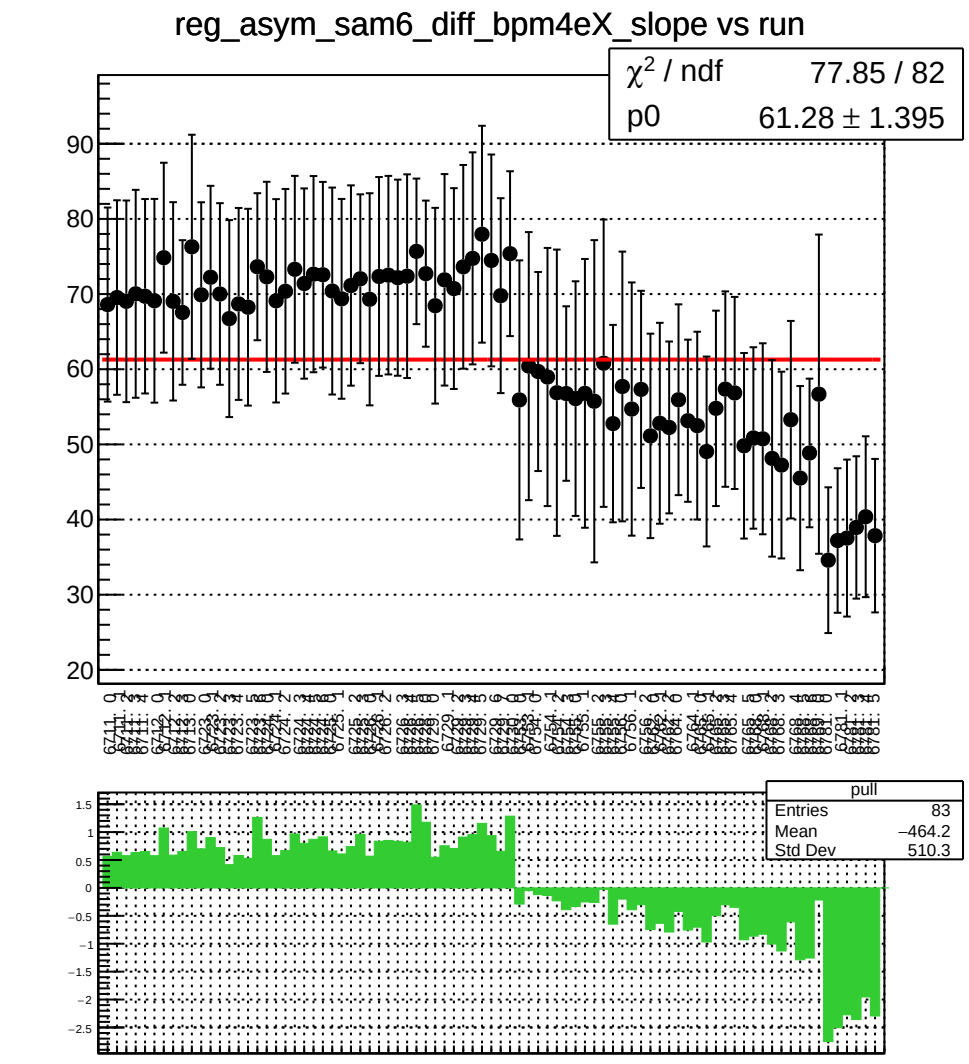

pull1D
Entries 83
Mean 0.02359
Std Dev 0.4972

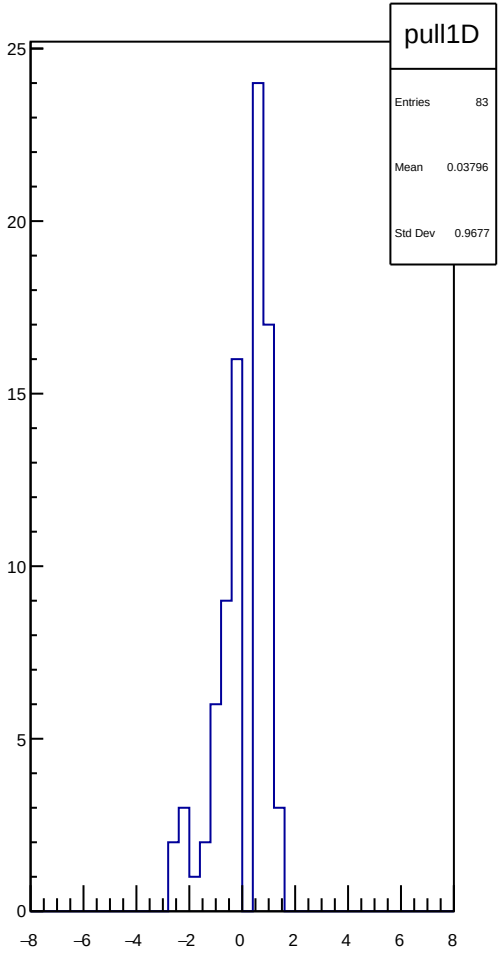

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 19.22 / 82
p0 −0.3236 ± 0.04939
pull
Entries 83
Mean −127.6
Std Dev 200.1

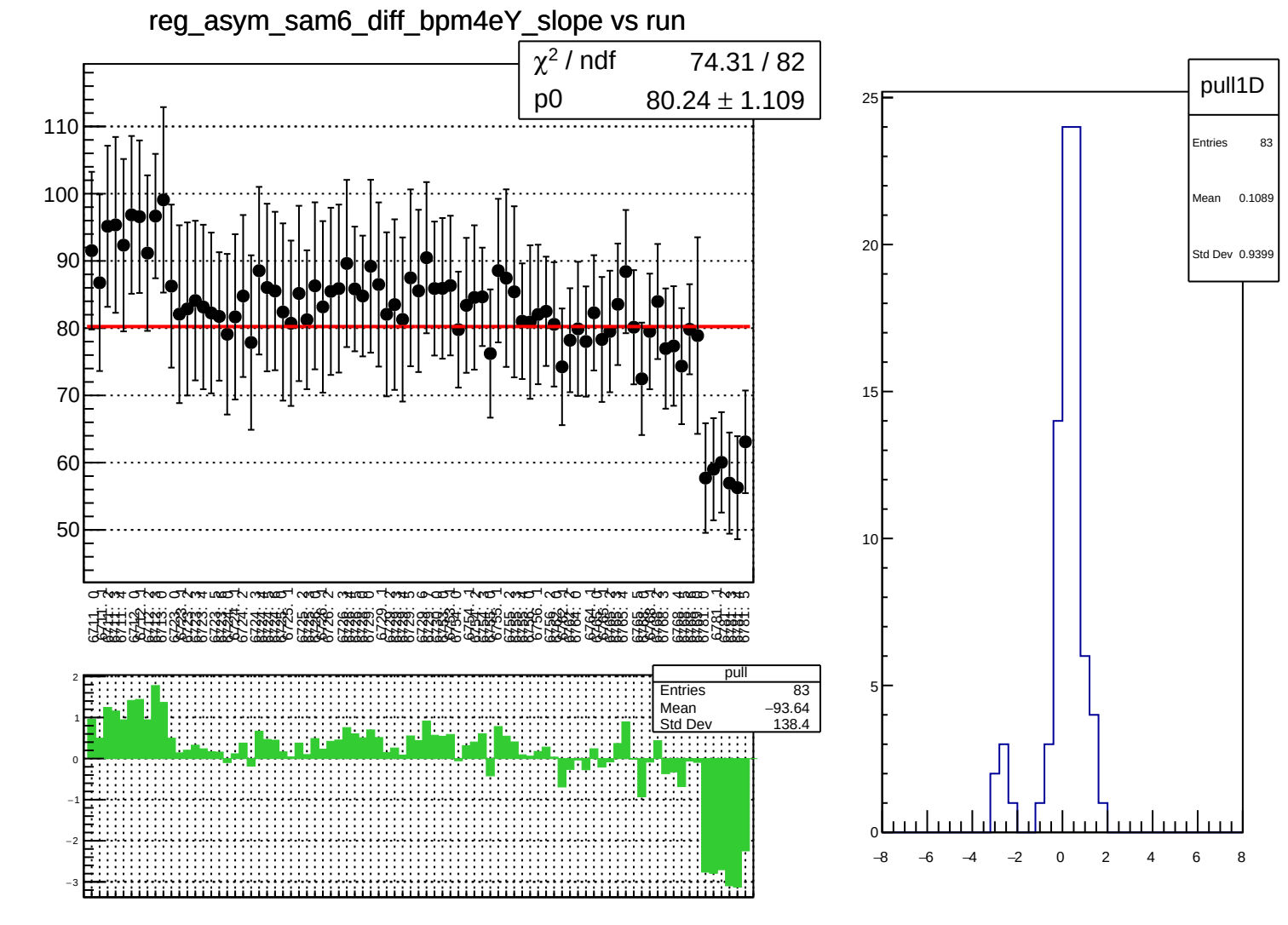

pull1D
Entries 83
Mean −0.01261
Std Dev 0.481

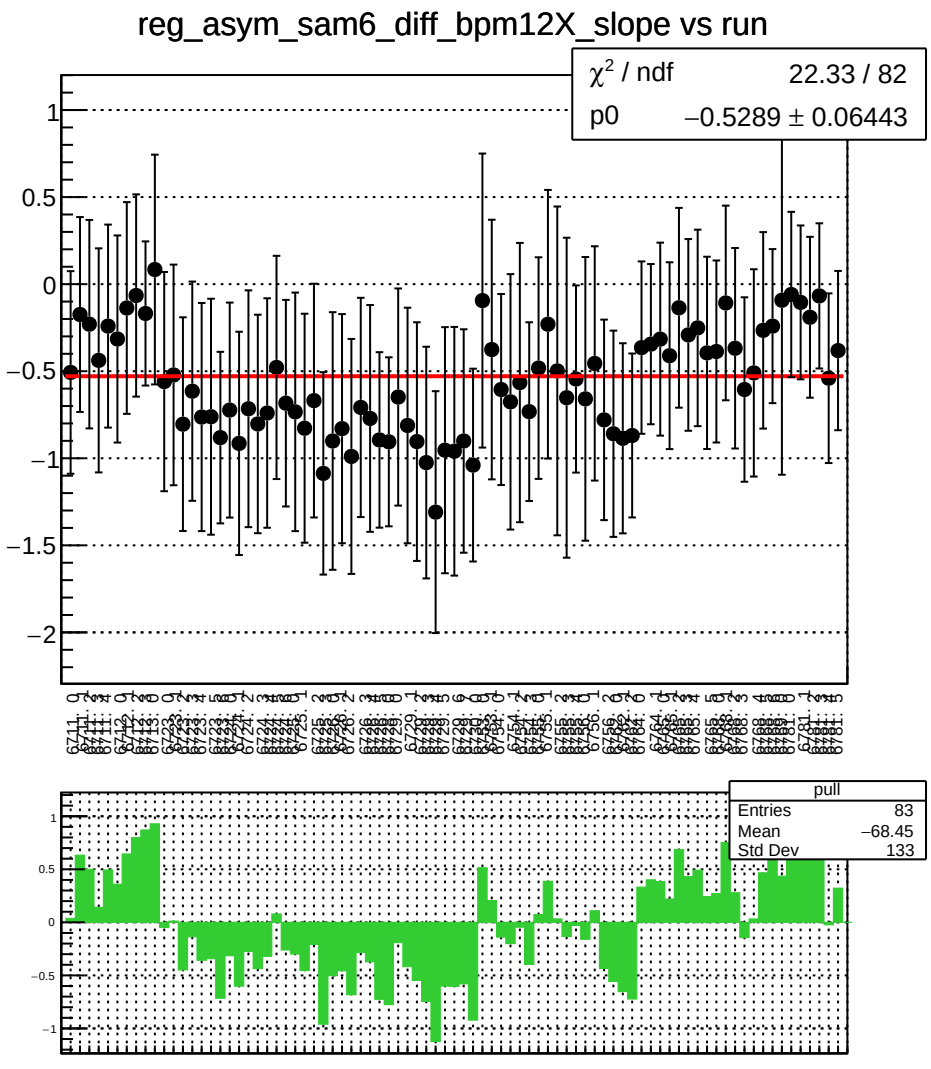

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 16.5 / 82
p0 24.47 ± 1.46
pull
Entries 83
Mean 1608
Std Dev 1564
pull1D
Entries 83
Mean 0.005243
Std Dev 0.4458

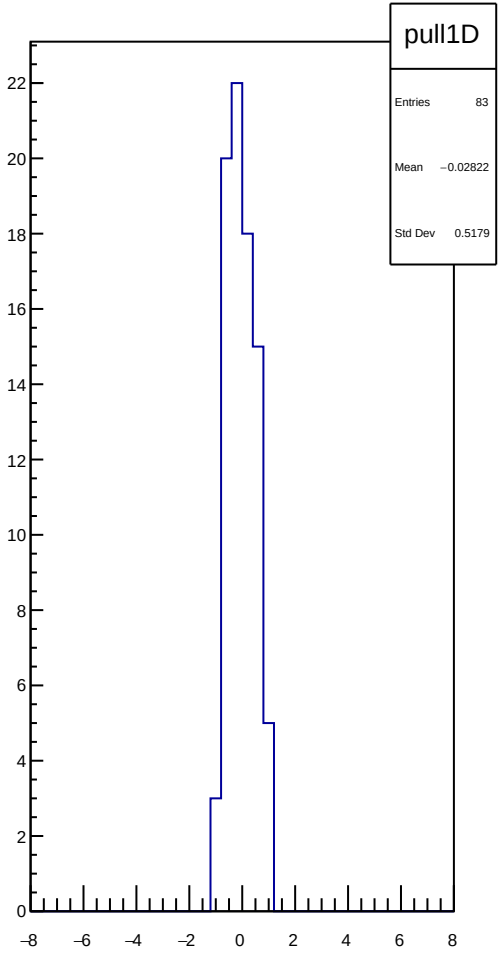

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 20.64 / 82
p0 37.88 ± 0.8822
pull
Entries 83
Mean 10.11
Std Dev 19.42
pull1D
Entries 83
Mean 0.03674
Std Dev 0.4973

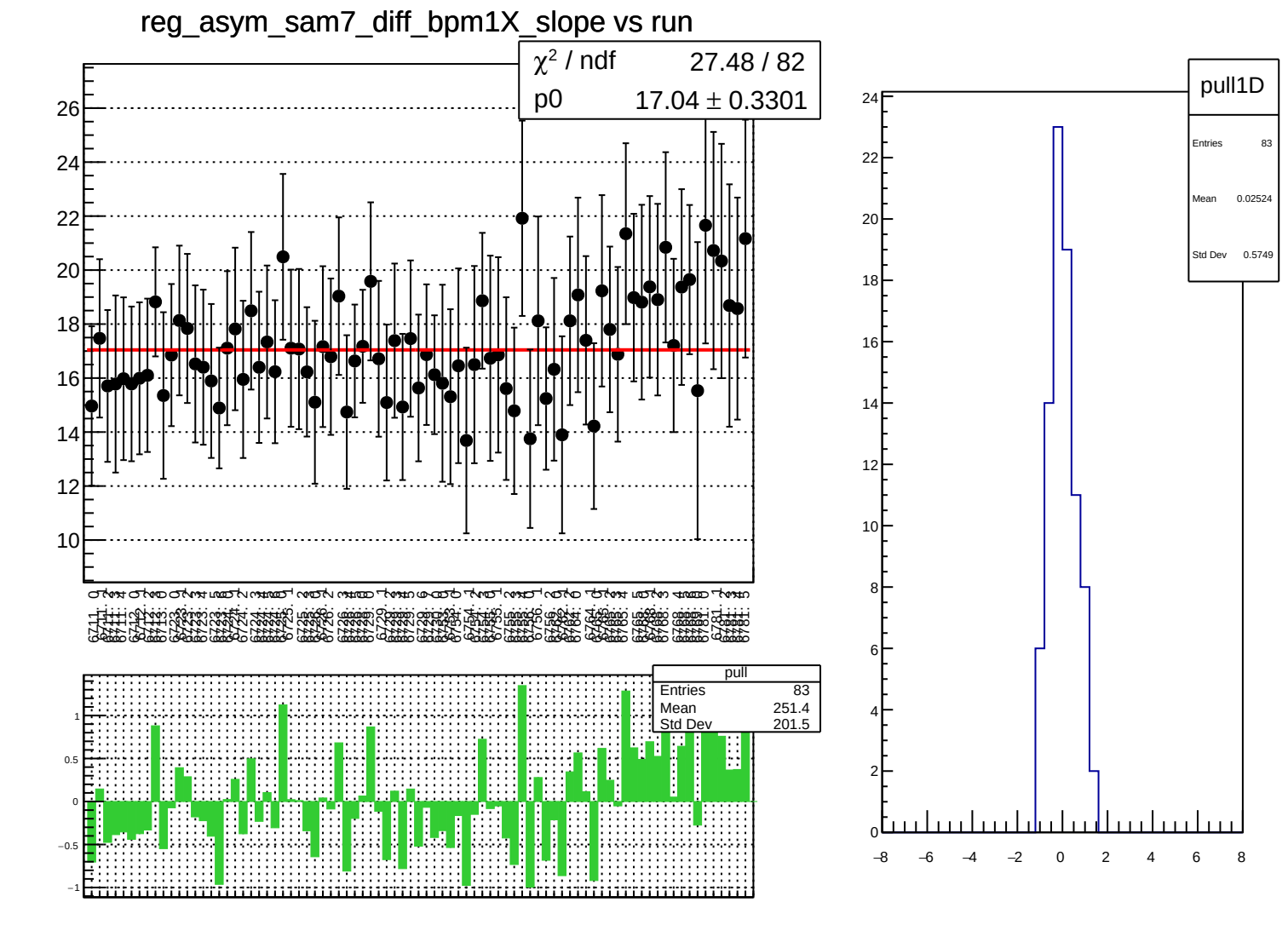

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 77.85 / 82
p0 61.28 ± 1.395
pull
Entries 83
Mean −464.2
Std Dev 510.3

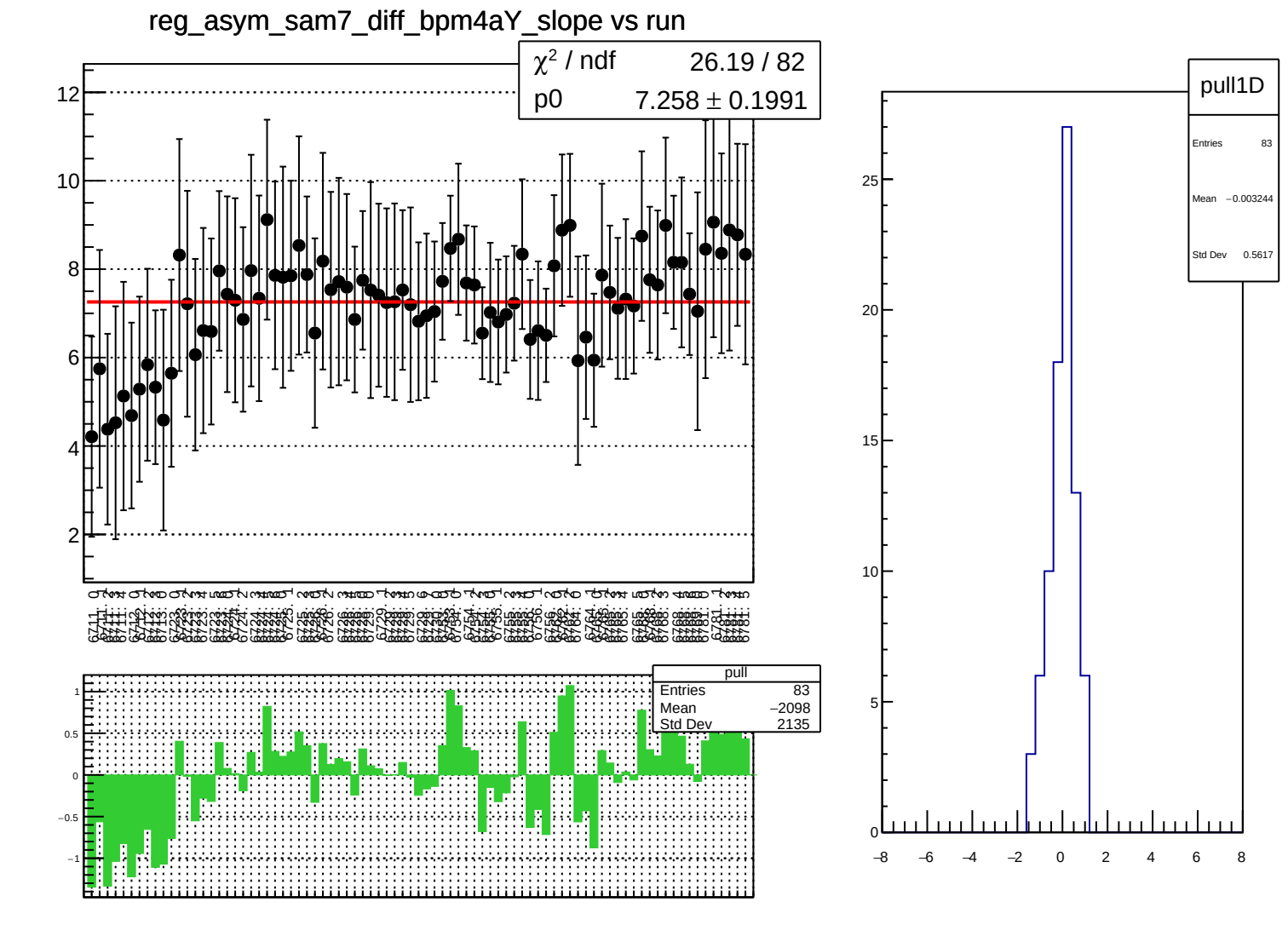

pull1D
Entries 83
Mean 0.03796
Std Dev 0.9677

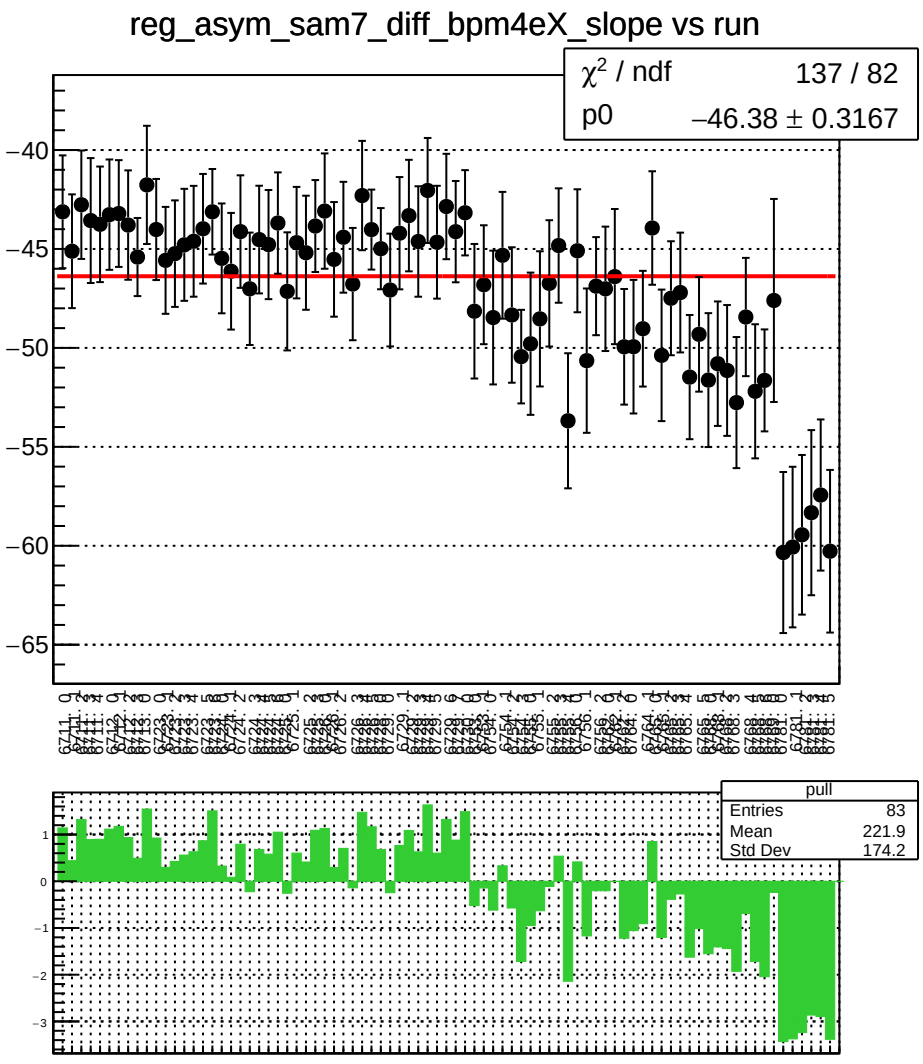

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 74.31 / 82
p0 80.24 ± 1.109
pull
Entries 83
Mean −93.64
Std Dev 138.4
pull1D
Entries 83
Mean 0.1089
Std Dev 0.9399

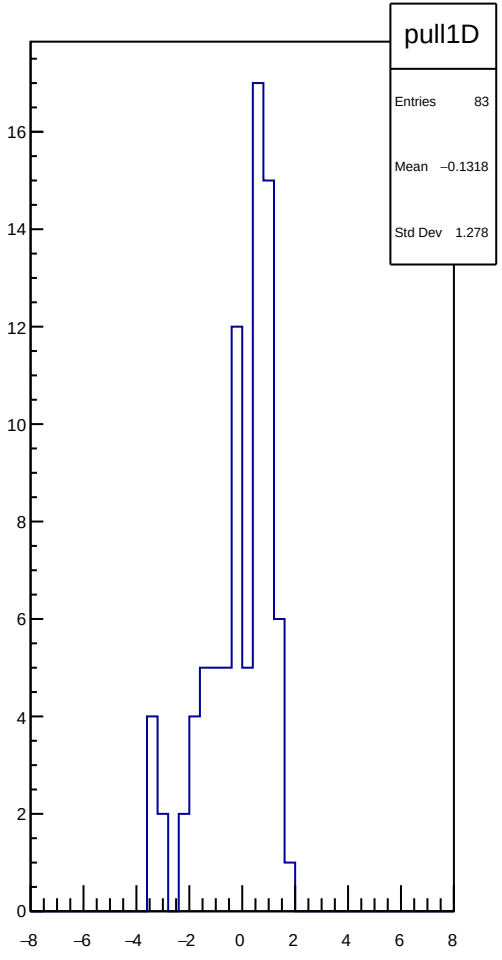

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 22.33 / 82
p0 −0.5289 ± 0.06443
pull
Entries 83
Mean −68.45
Std Dev 133

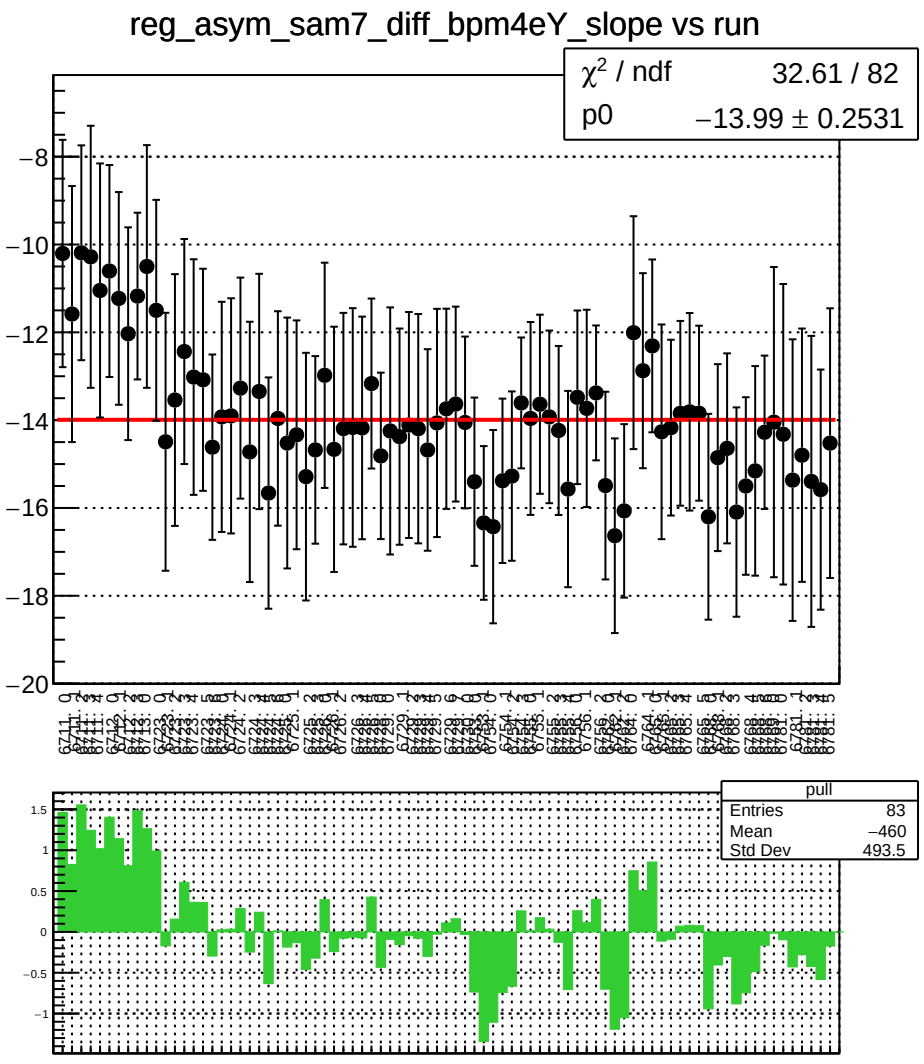

pull1D
Entries 83
Mean −0.02822
Std Dev 0.5179

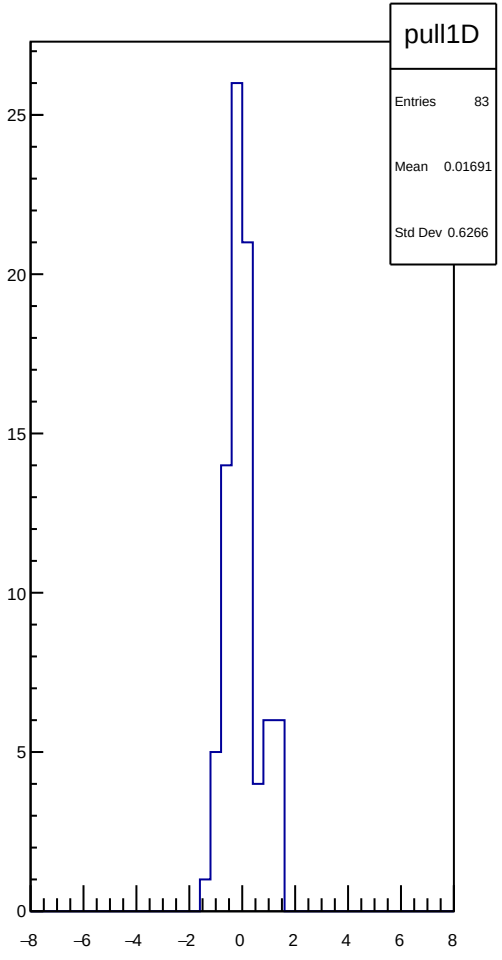

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 27.48 / 82
p0 17.04 ± 0.3301
pull
Entries 83
Mean 251.4
Std Dev 201.5
pull1D
Entries 83
Mean 0.02524
Std Dev 0.5749

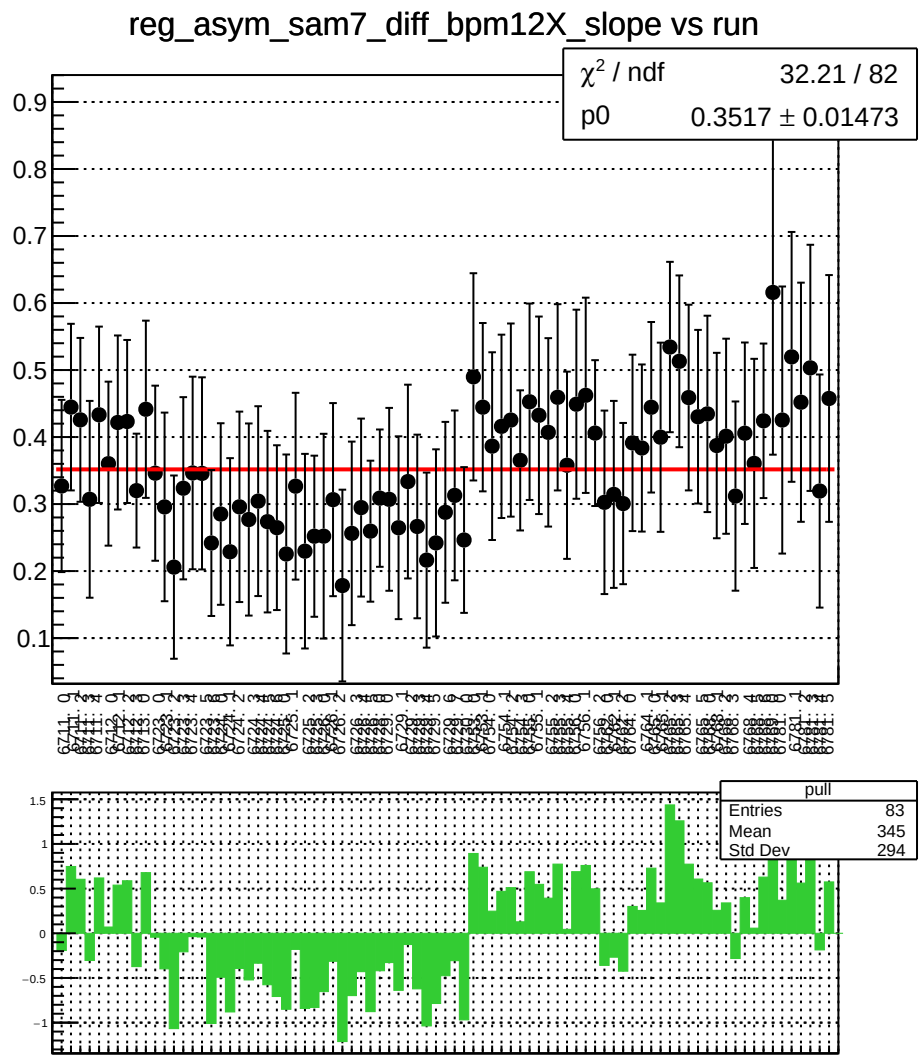

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 26.19 / 82
p0 7.258 ± 0.1991
pull
Entries 83
Mean −2098
Std Dev 2135
pull1D
Entries 83
Mean −0.003244
Std Dev 0.5617

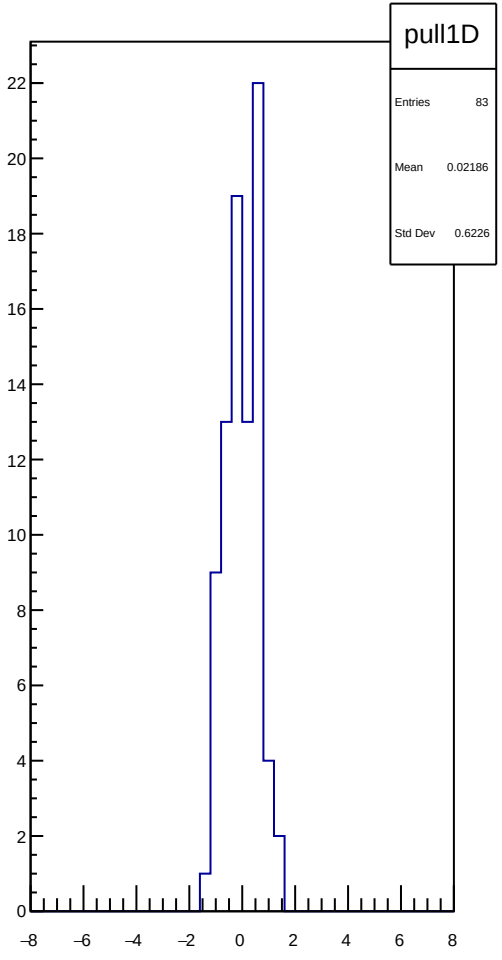

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 137 / 82
p0 −46.38 ± 0.3167
pull
Entries 83
Mean 221.9
Std Dev 174.2

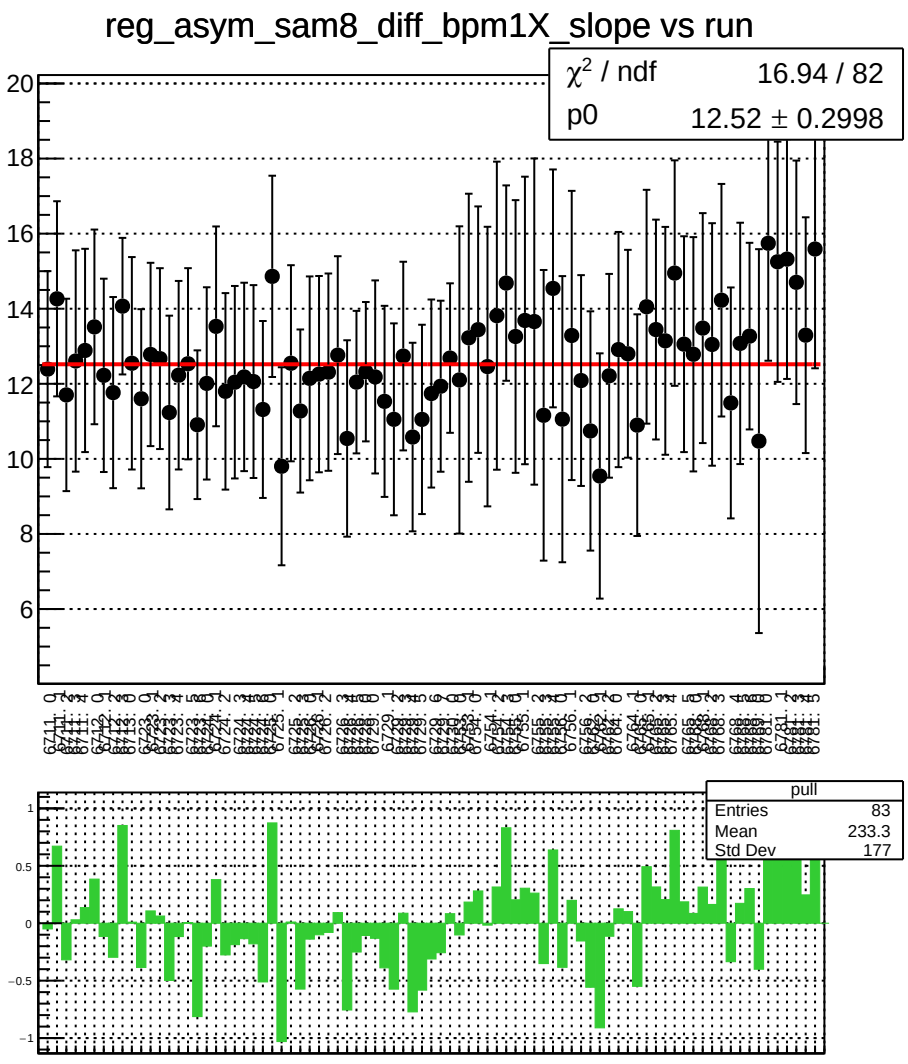

pull1D
Entries 83
Mean −0.1318
Std Dev 1.278

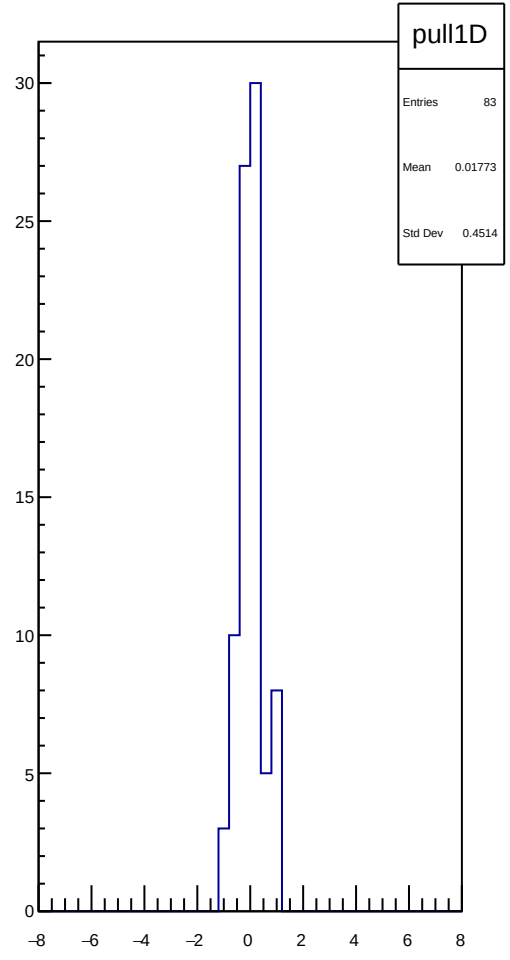

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 32.61 / 82
p0 −13.99 ± 0.2531
pull
Entries 83
Mean −460
Std Dev 493.5

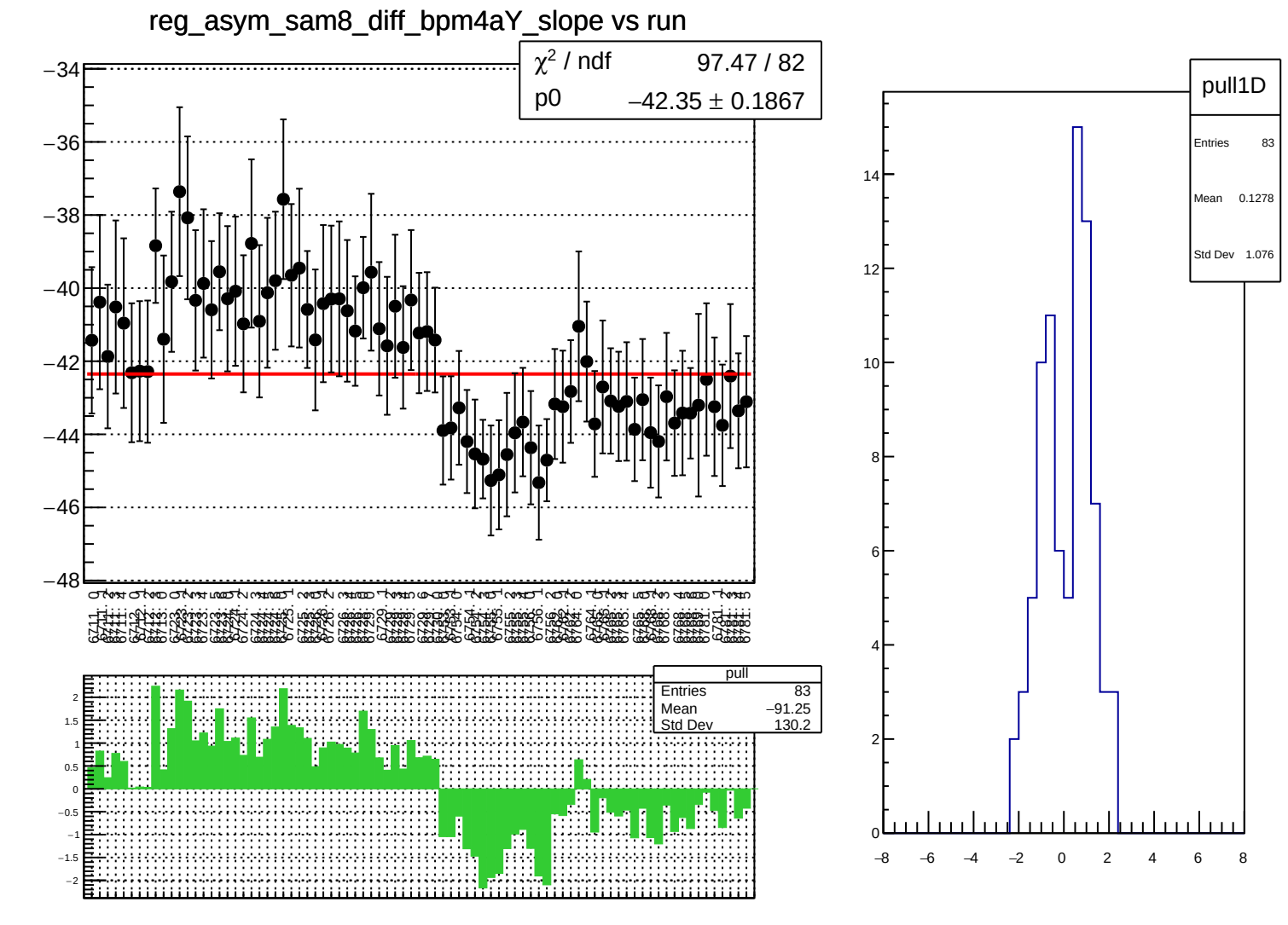

pull1D
Entries 83
Mean 0.01691
Std Dev 0.6266

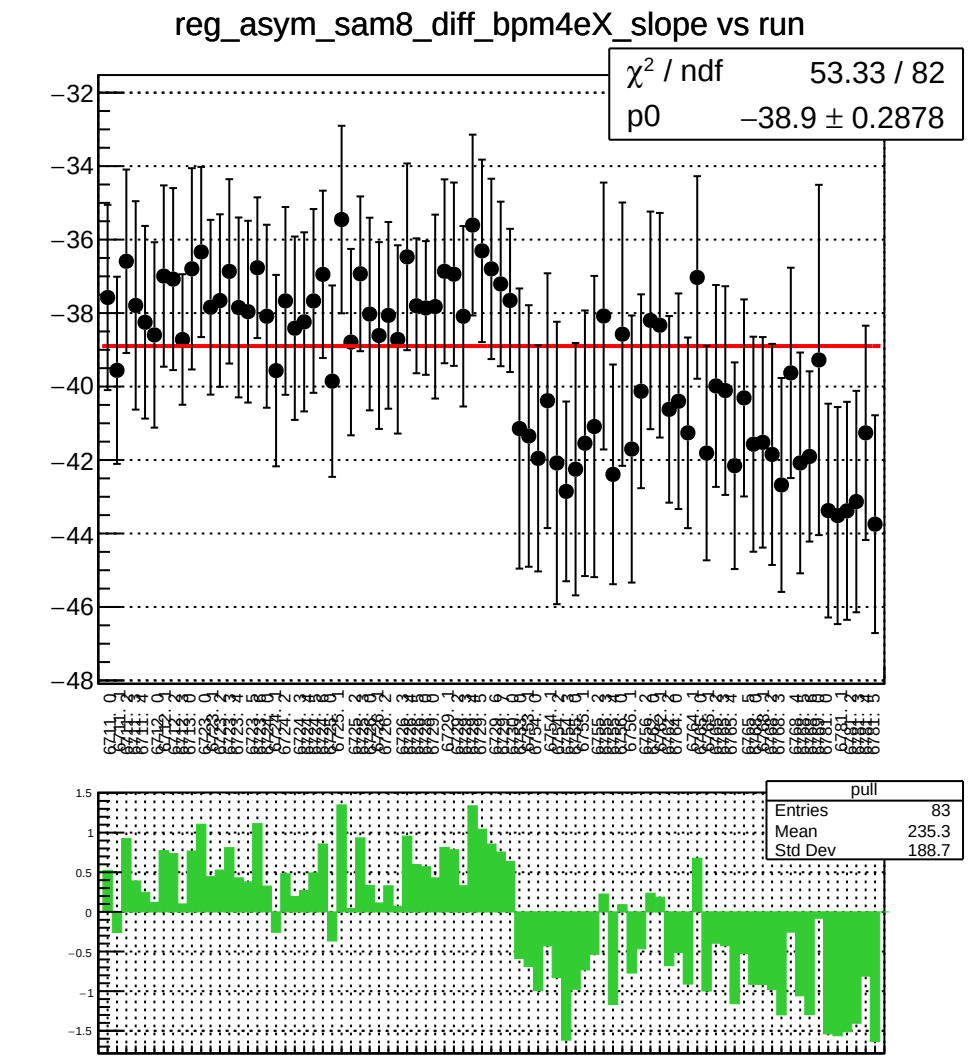

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 32.21 / 82
p0 0.3517 ± 0.01473
pull
Entries 83
Mean 345
Std Dev 294

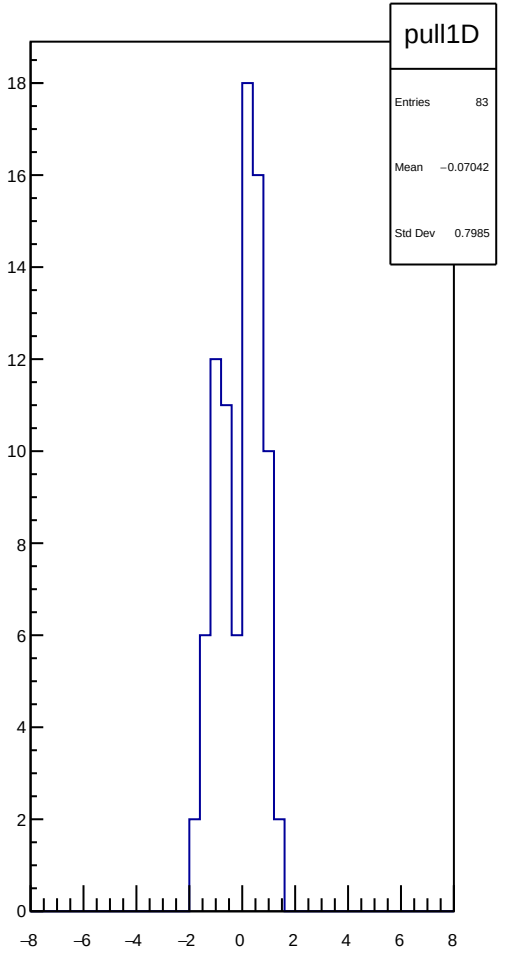

pull1D
Entries 83
Mean 0.02186
Std Dev 0.6226

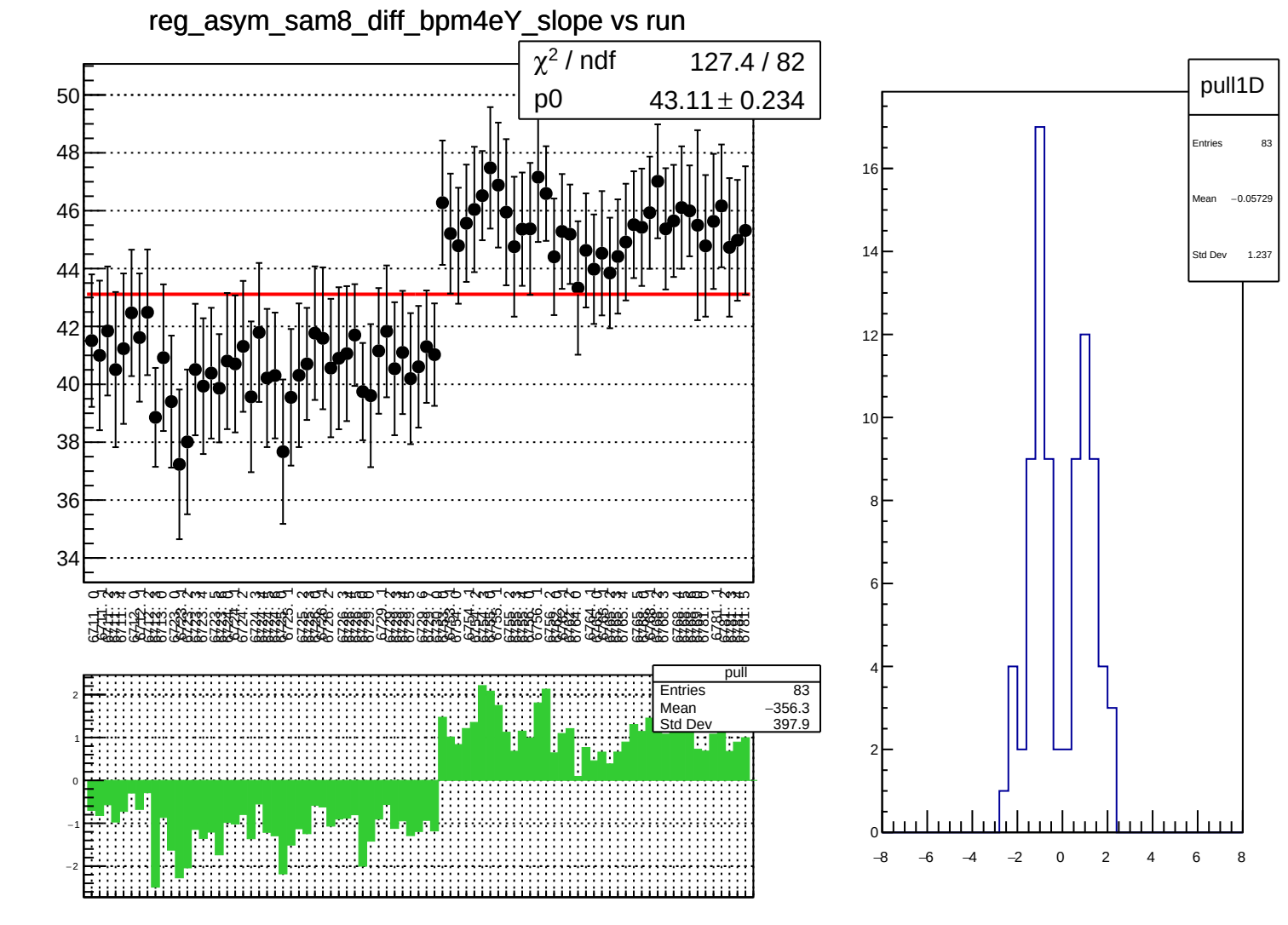

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 16.94 / 82
p0 12.52 ± 0.2998
pull
Entries 83
Mean 233.3
Std Dev 177

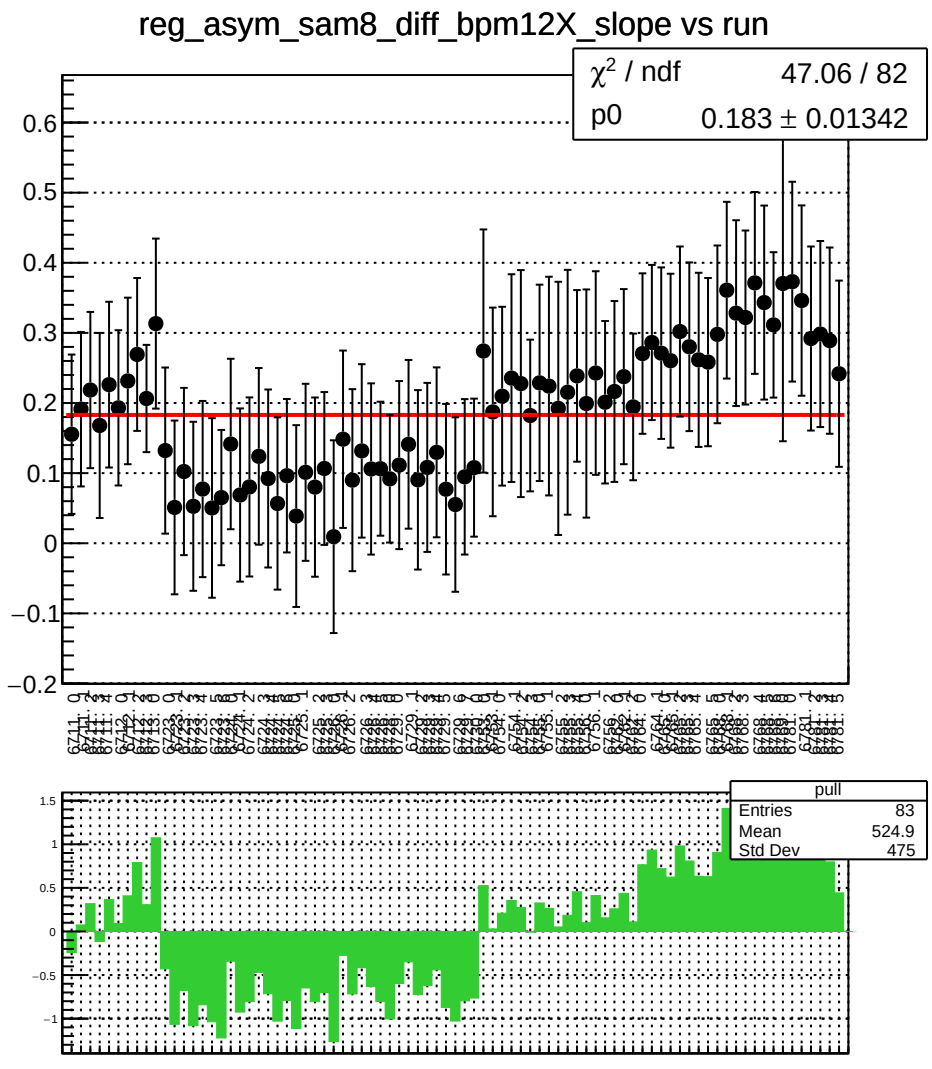

pull1D
Entries 83
Mean 0.01773
Std Dev 0.4514

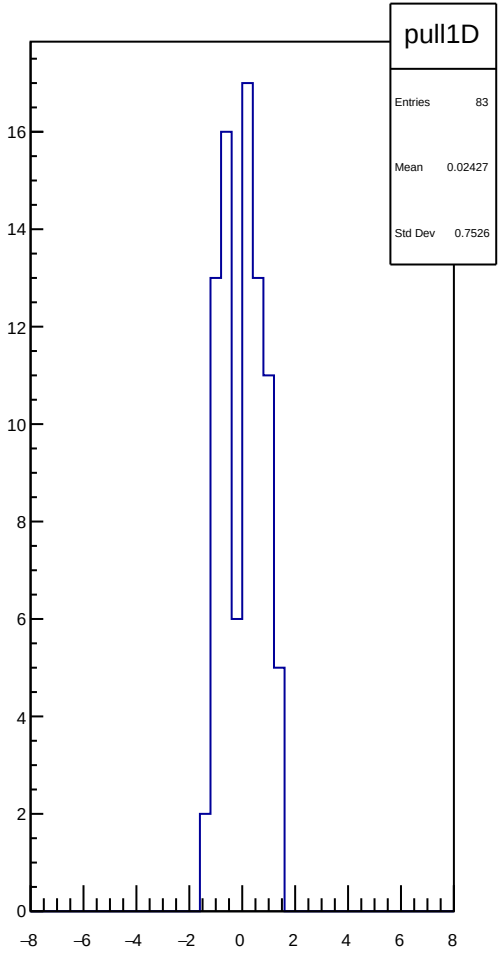

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 97.47 / 82
p0 −42.35 ± 0.1867
pull
Entries 83
Mean −91.25
Std Dev 130.2
pull1D
Entries 83
Mean 0.1278
Std Dev 1.076

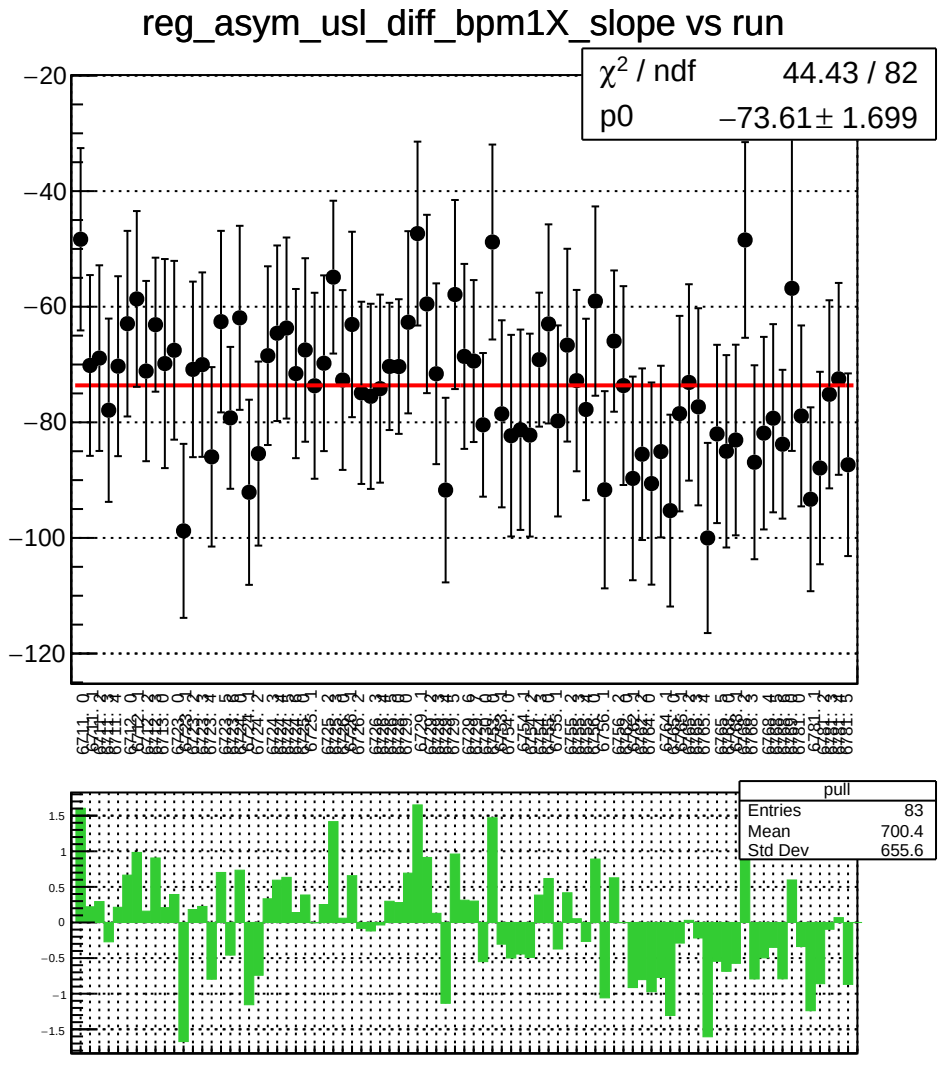

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 53.33 / 82
p0 −38.9 ± 0.2878
pull
Entries 83
Mean 235.3
Std Dev 188.7

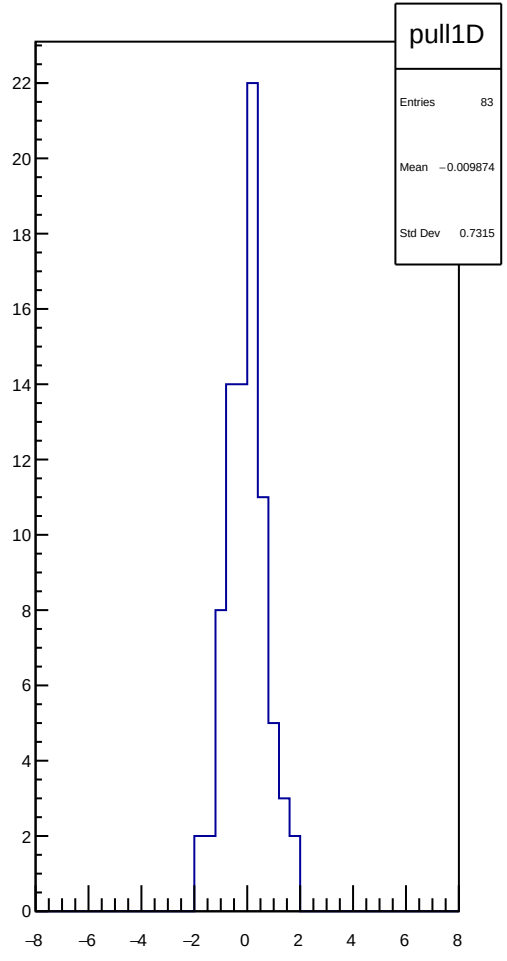

pull1D
Entries 83
Mean −0.07042
Std Dev 0.7985

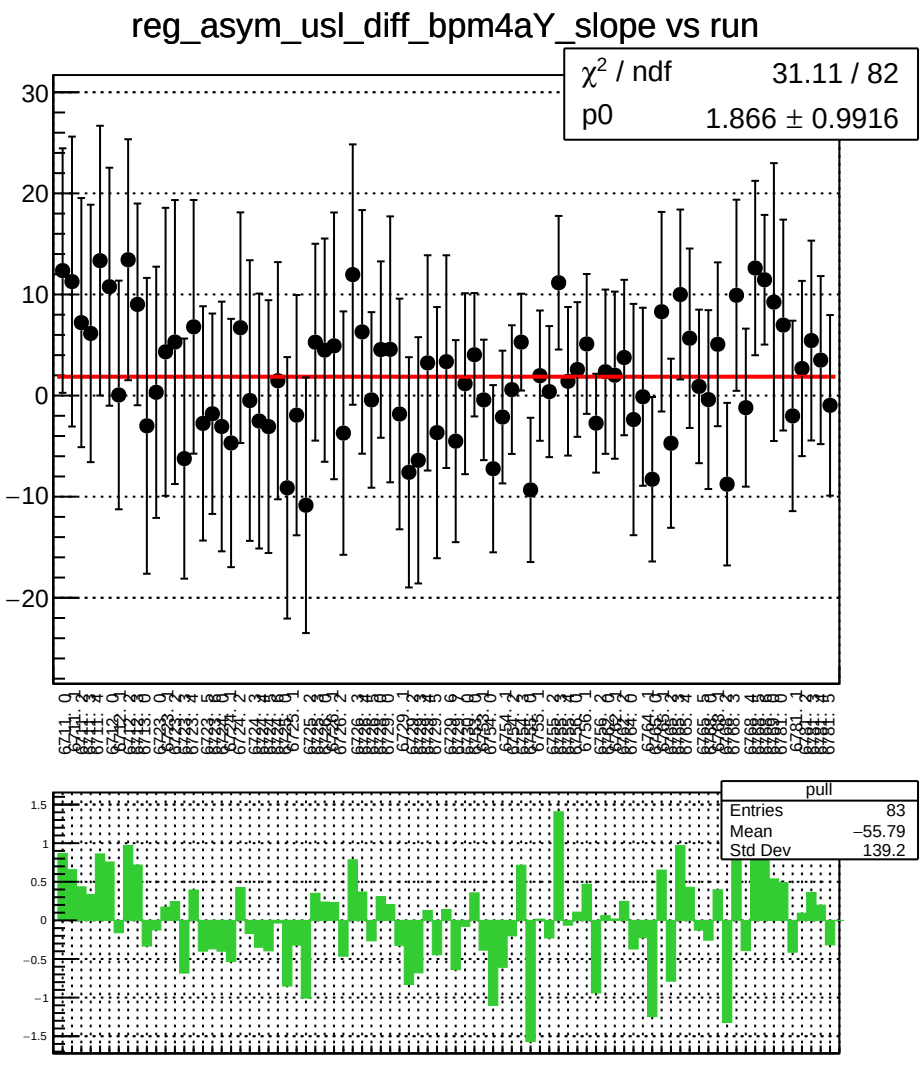

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 127.4 / 82
p0 43.11 ± 0.234
pull
Entries 83
Mean −356.3
Std Dev 397.9
pull1D
Entries 83
Mean −0.05729
Std Dev 1.237

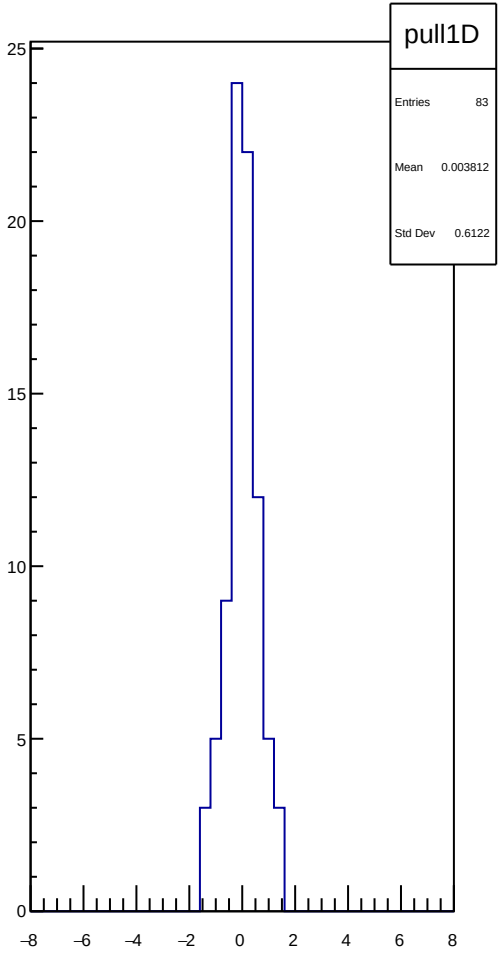

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 47.06 / 82
p0 0.183 ± 0.01342
pull
Entries 83
Mean 524.9
Std Dev 475

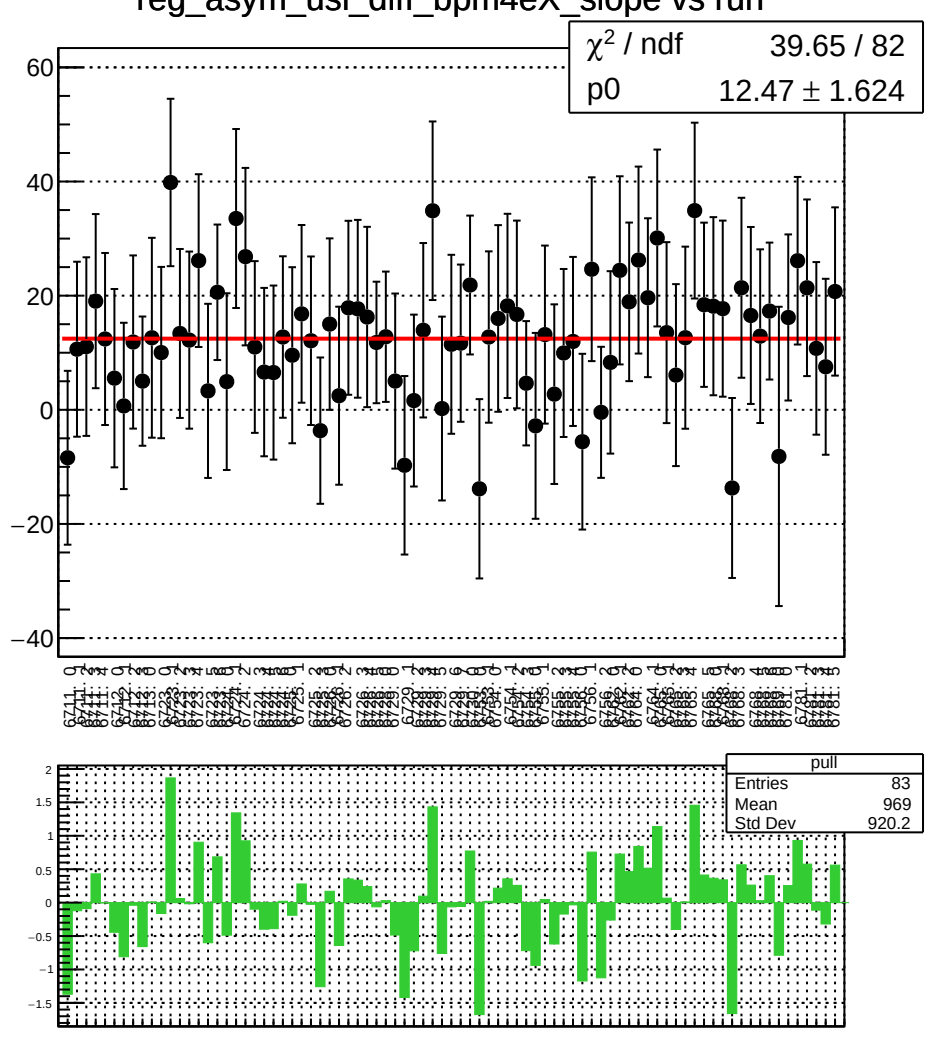

pull1D
Entries 83
Mean 0.02427
Std Dev 0.7526

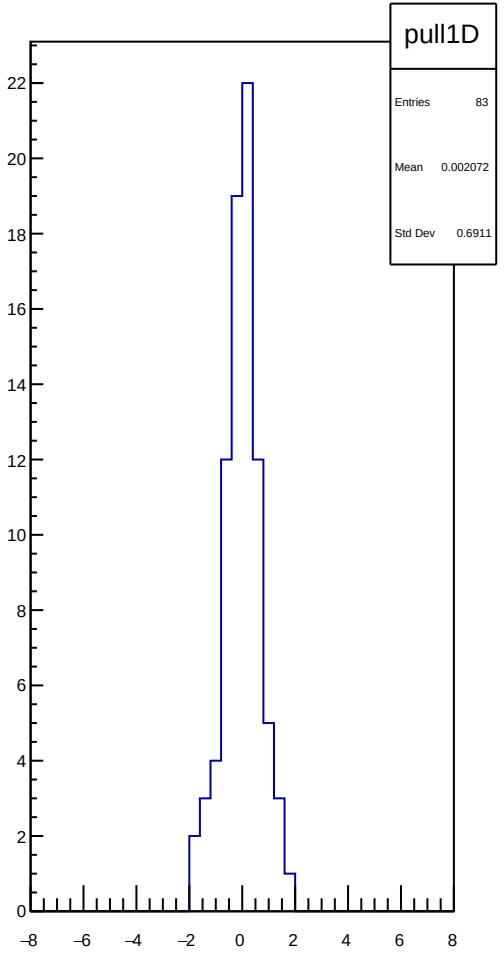

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 44.43 / 82
p0 −73.61 ± 1.699
−20
−40
−60
−80
−100
−120
pull
Entries 83
Mean 700.4
Std Dev 655.6
1.5
1
0.5
0
−0.5
−1
−1.5

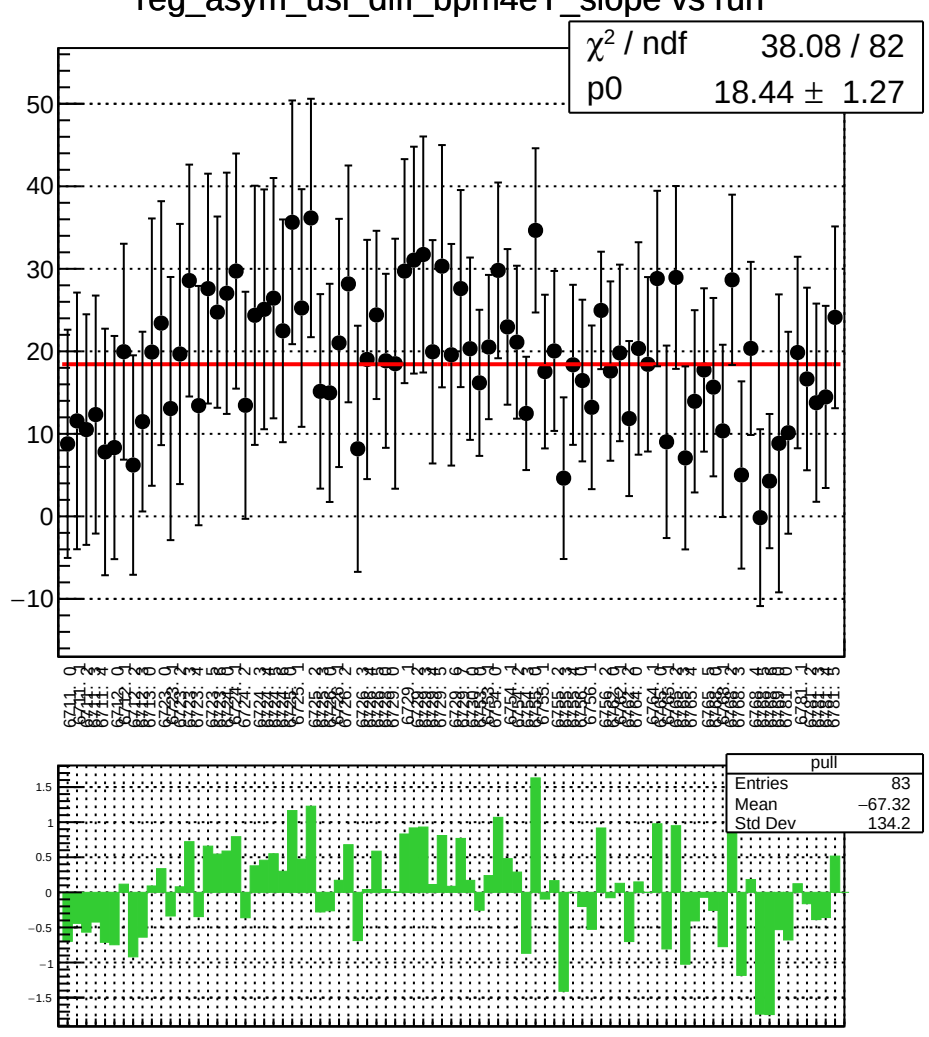

pull1D
Entries 83
Mean −0.009874
Std Dev 0.7315
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

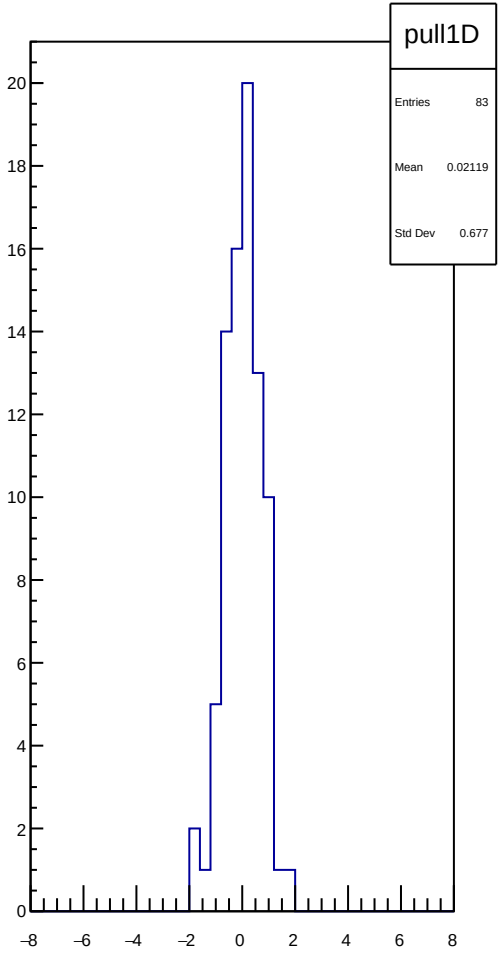

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 31.11 / 82
p0 1.866 ± 0.9916
pull
Entries 83
Mean −55.79
Std Dev 139.2

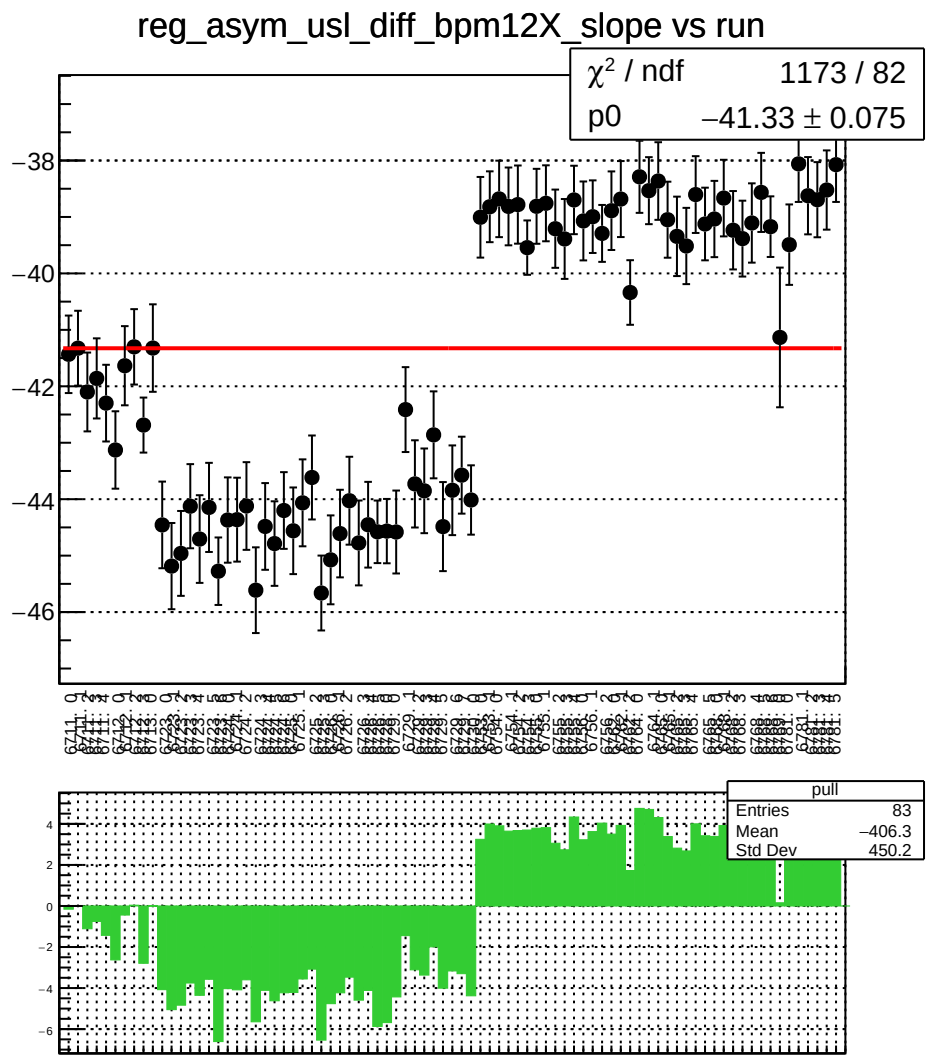

pull1D
Entries 83
Mean 0.003812
Std Dev 0.6122

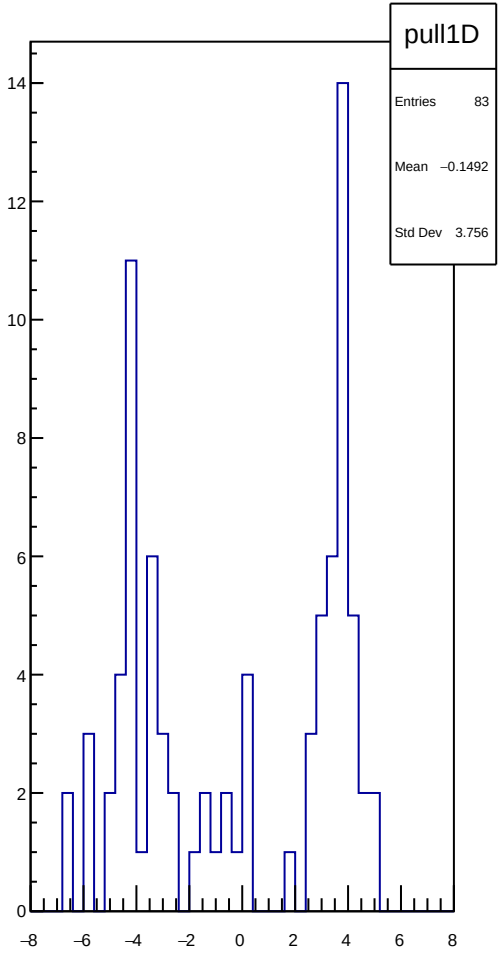

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 39.65 / 82
p0 12.47 ± 1.624
pull
Entries 83
Mean 969
Std Dev 920.2

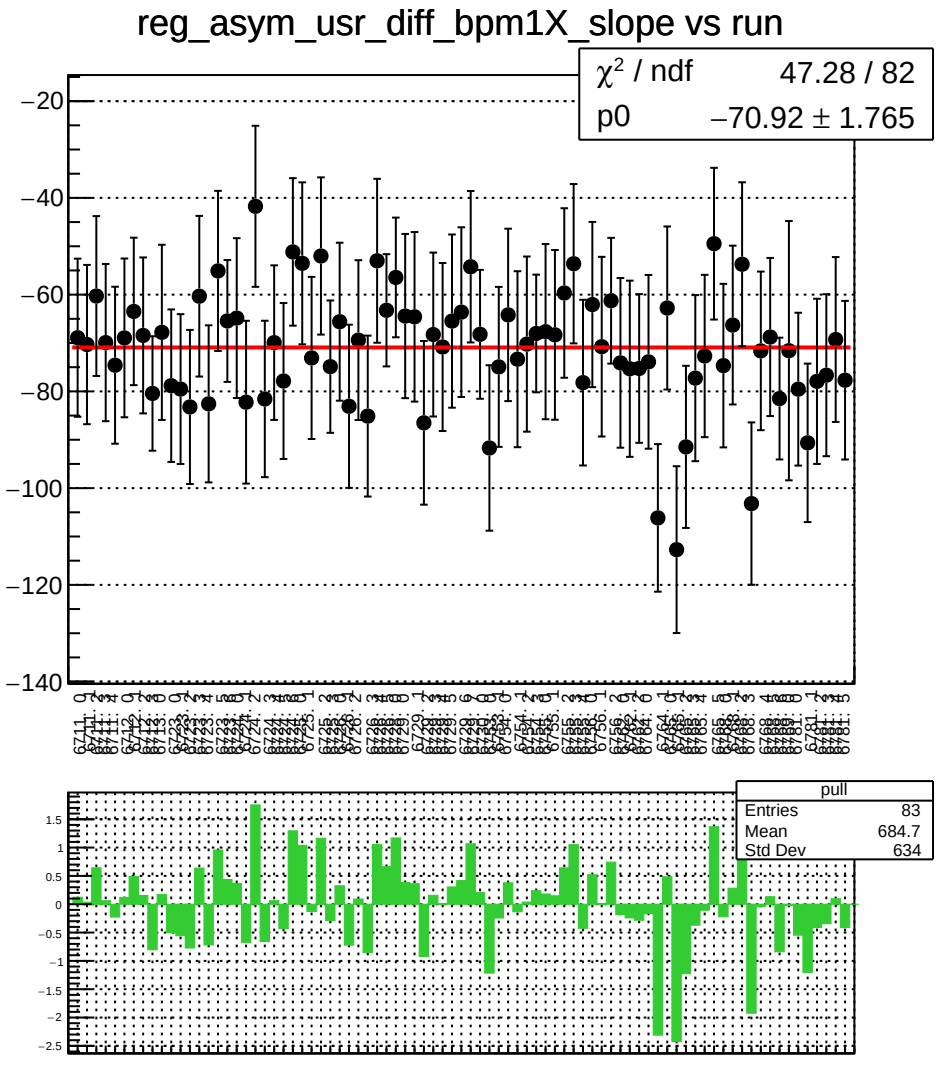

pull1D
Entries 83
Mean 0.002072
Std Dev 0.6911

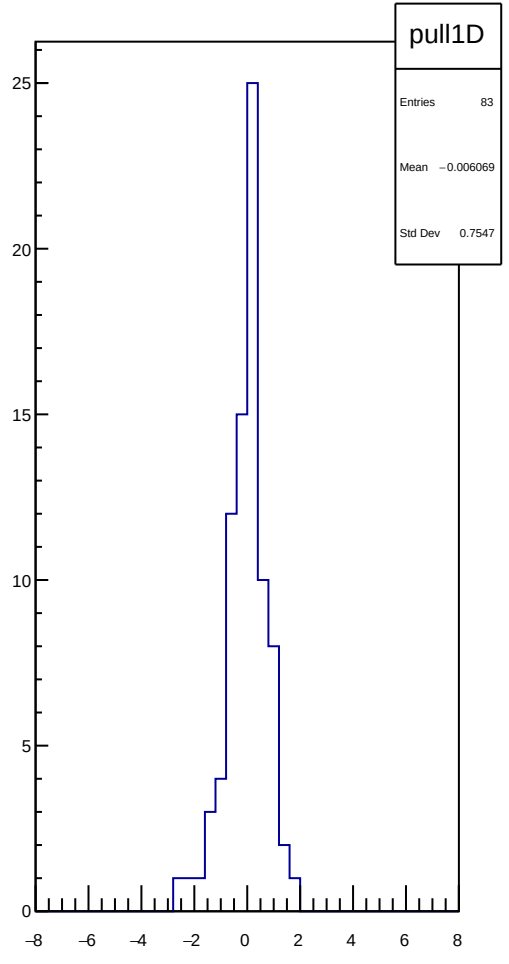

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 38.08 / 82
p0 18.44 ± 1.27
pull
Entries 83
Mean −67.32
Std Dev 134.2

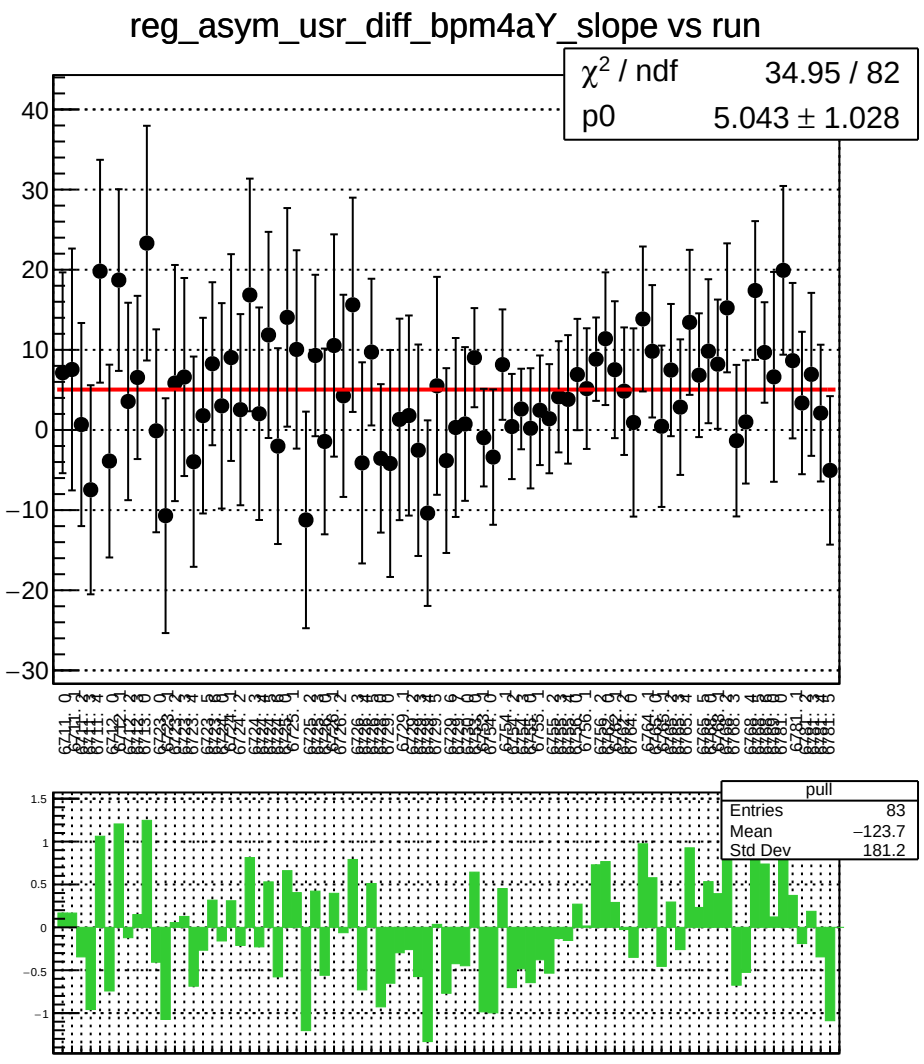

pull1D
Entries 83
Mean 0.02119
Std Dev 0.677

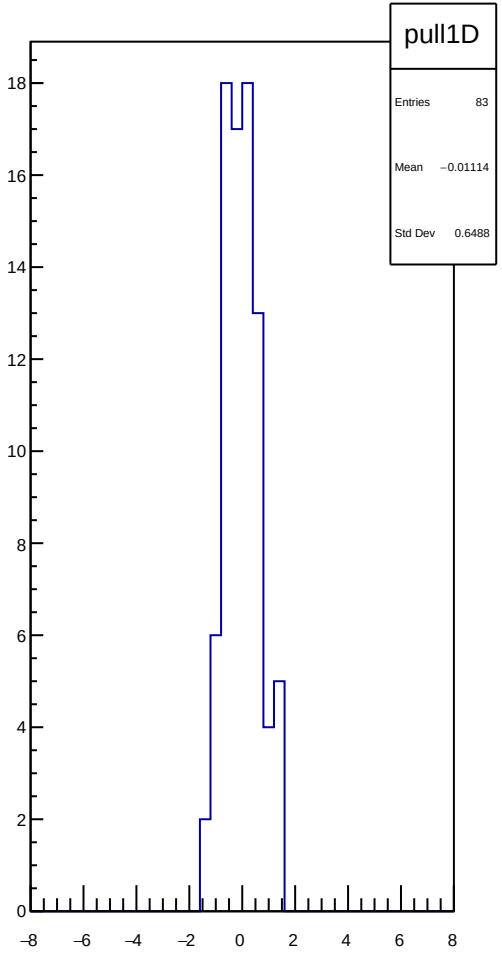

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 1173 / 82
p0 −41.33 ± 0.075
−38
−40
−42
−44
−46
pull
Entries 83
Mean −406.3
Std Dev 450.2
4
2
0
−2
−4
−6

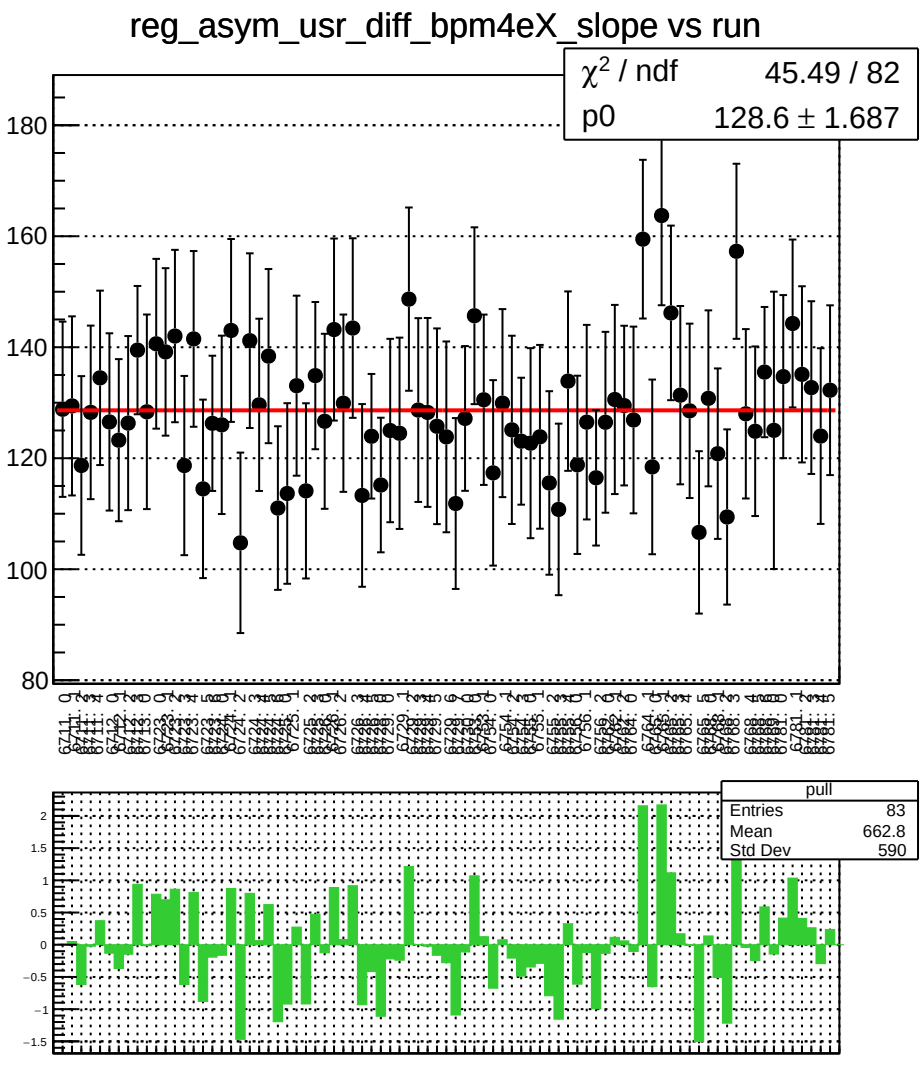

pull1D
Entries 83
Mean −0.1492
Std Dev 3.756
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

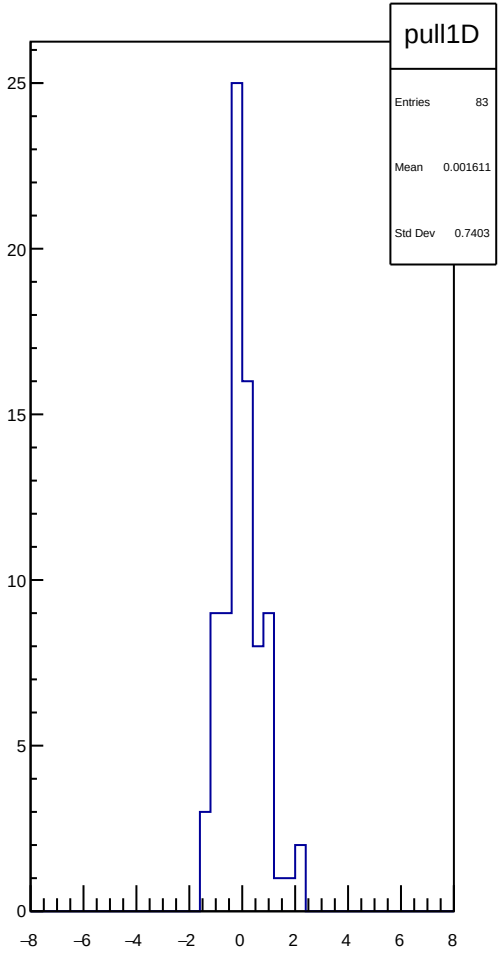

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 47.28 / 82
p0 −70.92 ± 1.765
pull
Entries 83
Mean 684.7
Std Dev 634

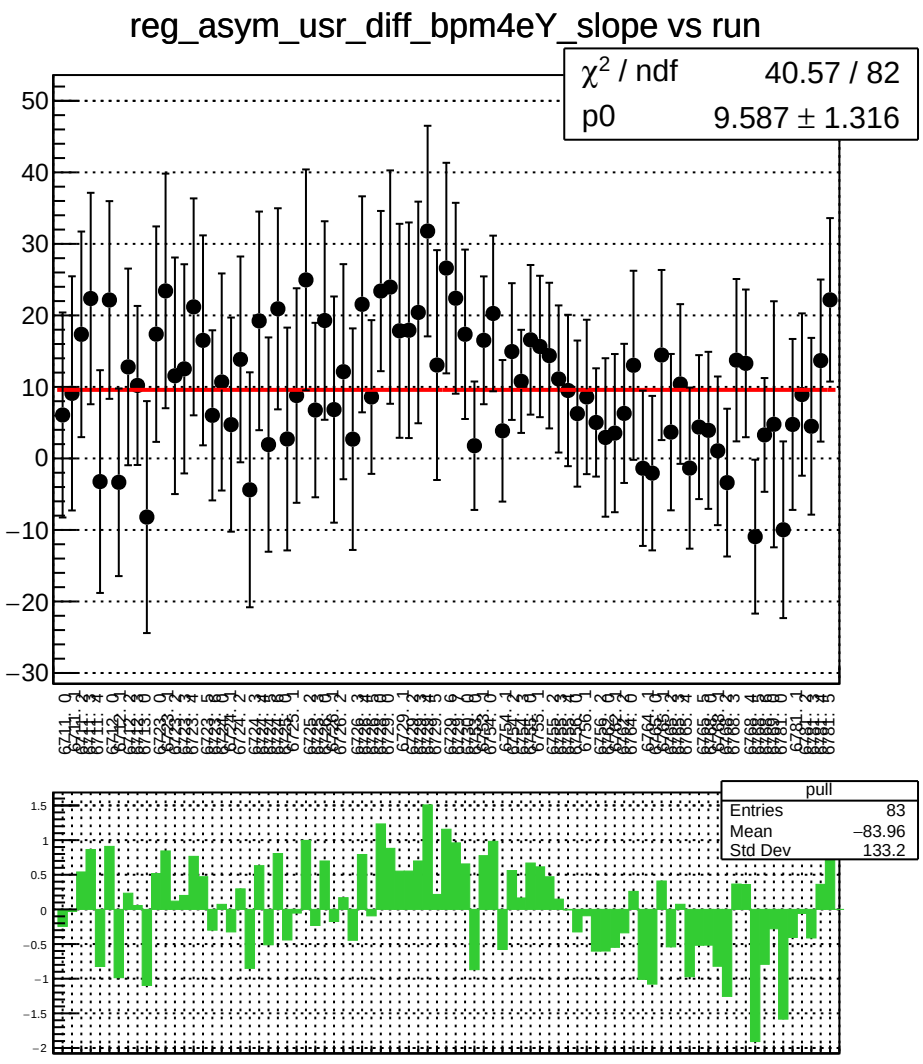

pull1D
Entries 83
Mean −0.006069
Std Dev 0.7547

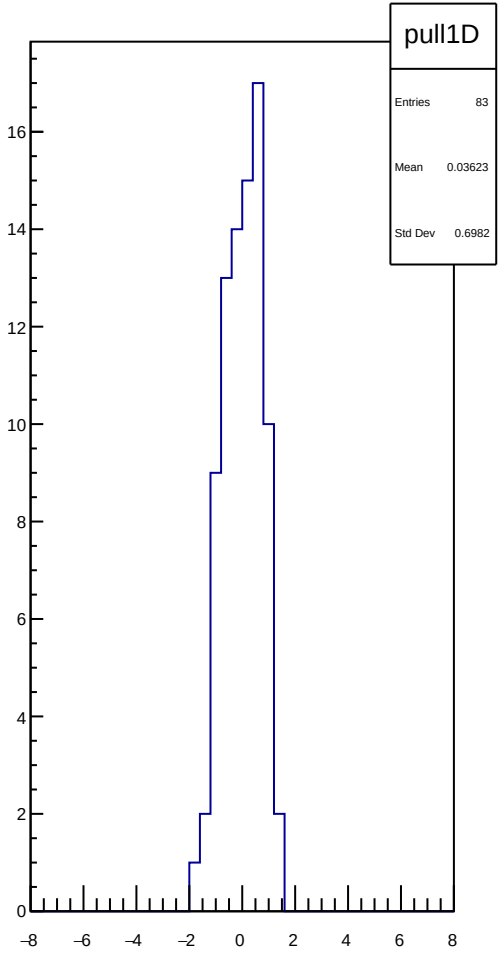

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 34.95 / 82
p0 5.043 ± 1.028
pull
Entries 83
Mean −123.7
Std Dev 181.2

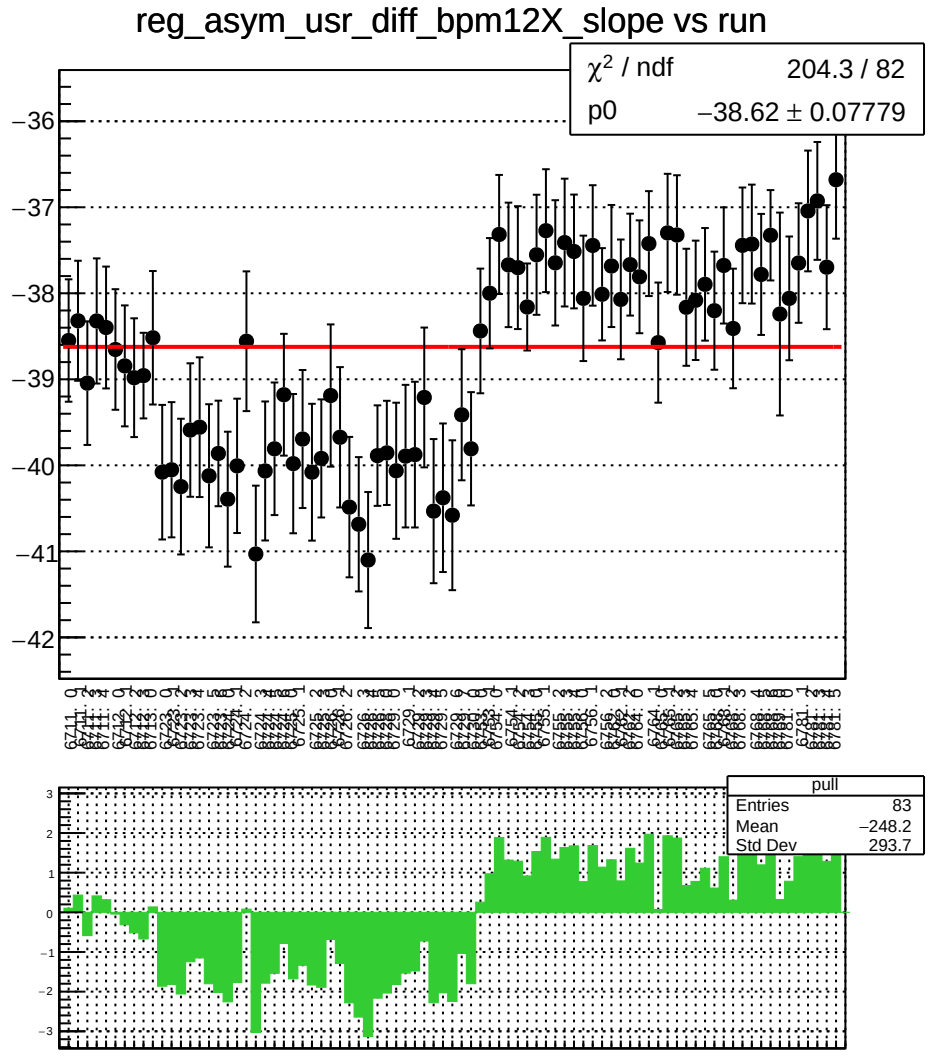

pull1D
Entries 83
Mean −0.01114
Std Dev 0.6488

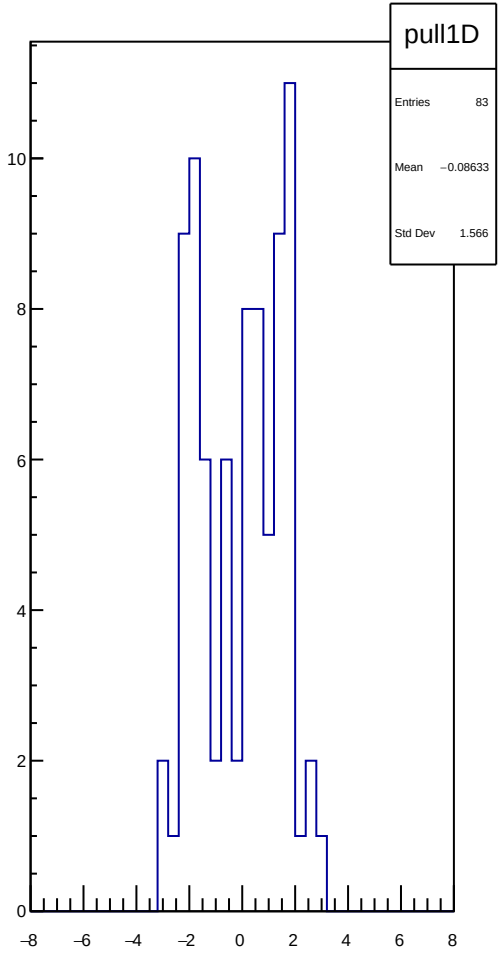

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 45.49 / 82
p0 128.6 ± 1.687
pull
Entries 83
Mean 662.8
Std Dev 590

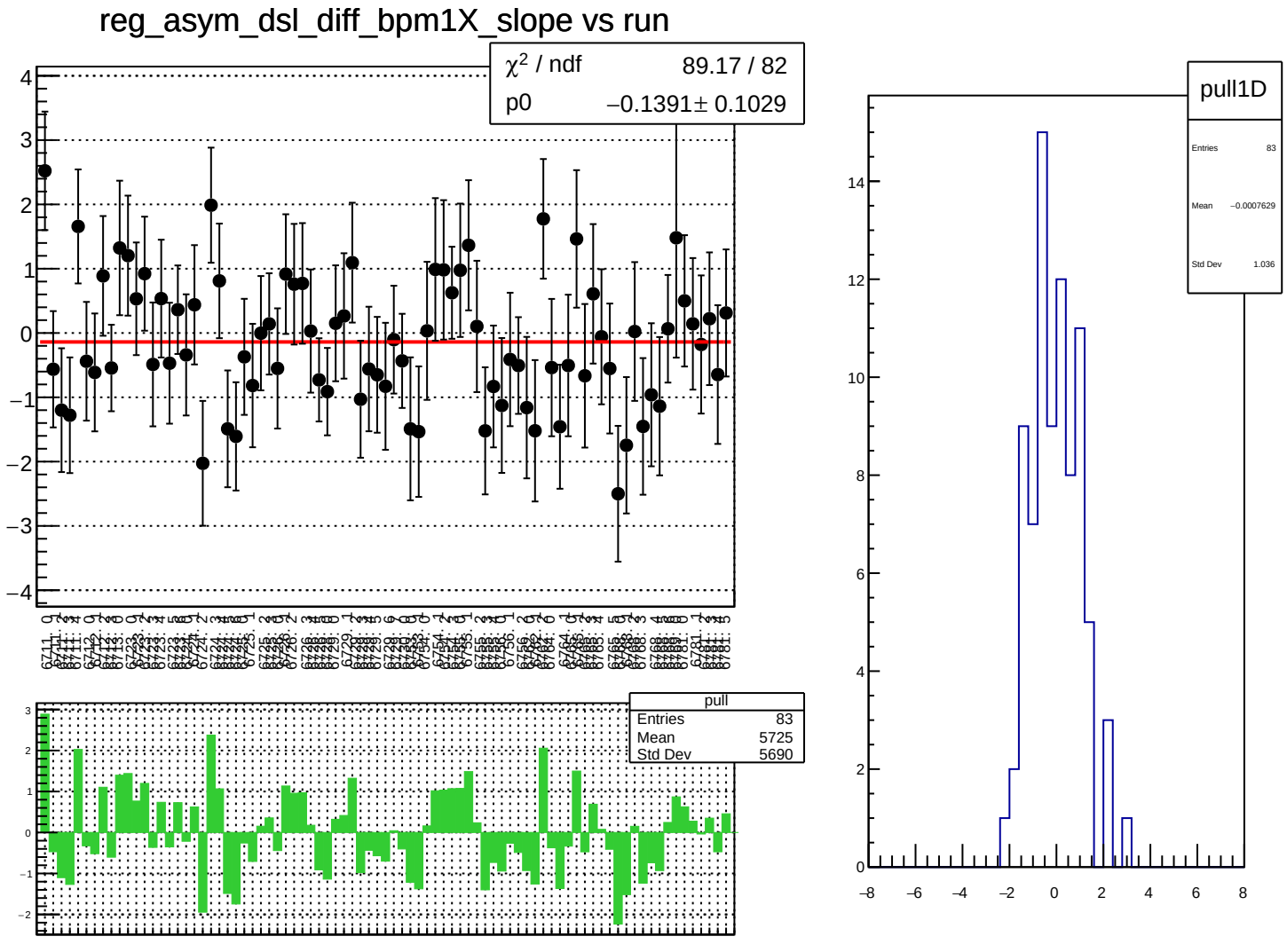

pull1D
Entries 83
Mean 0.001611
Std Dev 0.7403

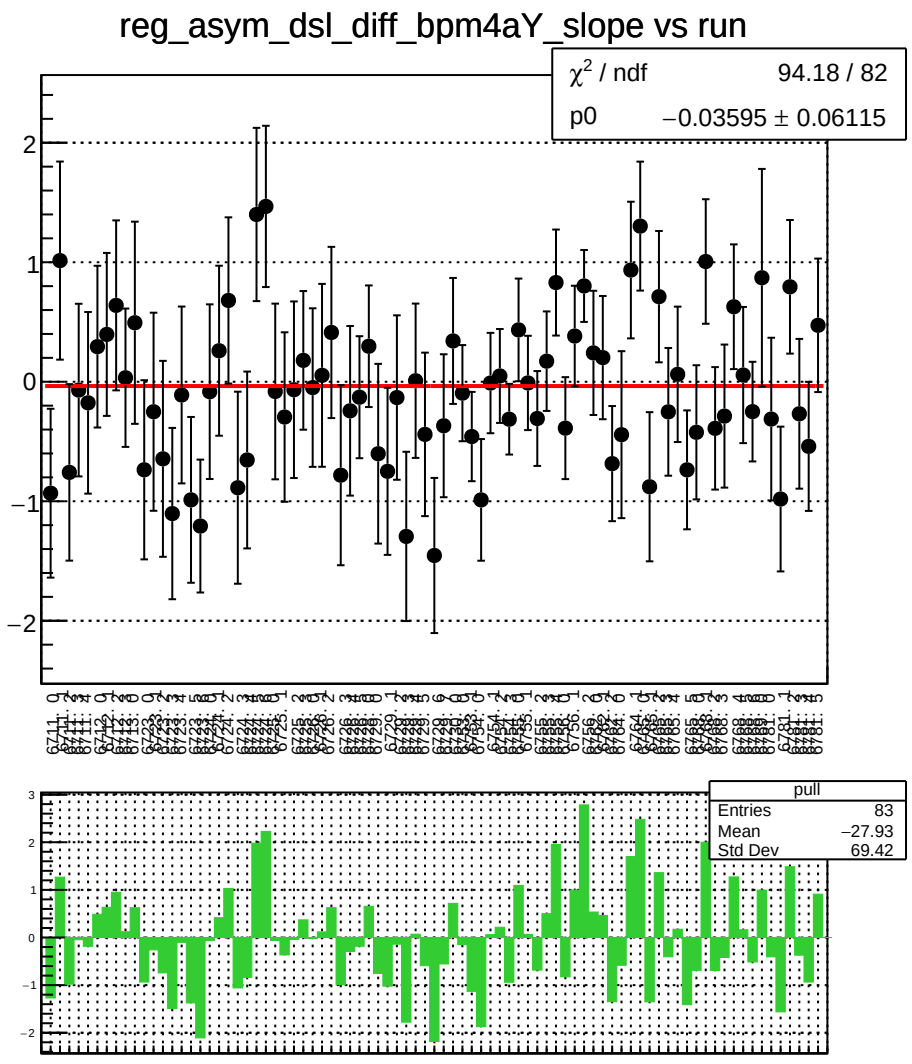

reg_asym_usr_diff_bpm4eY_slope vs run
χ^2 / ndf 40.57 / 82
p0 9.587 ± 1.316
pull
Entries 83
Mean −83.96
Std Dev 133.2

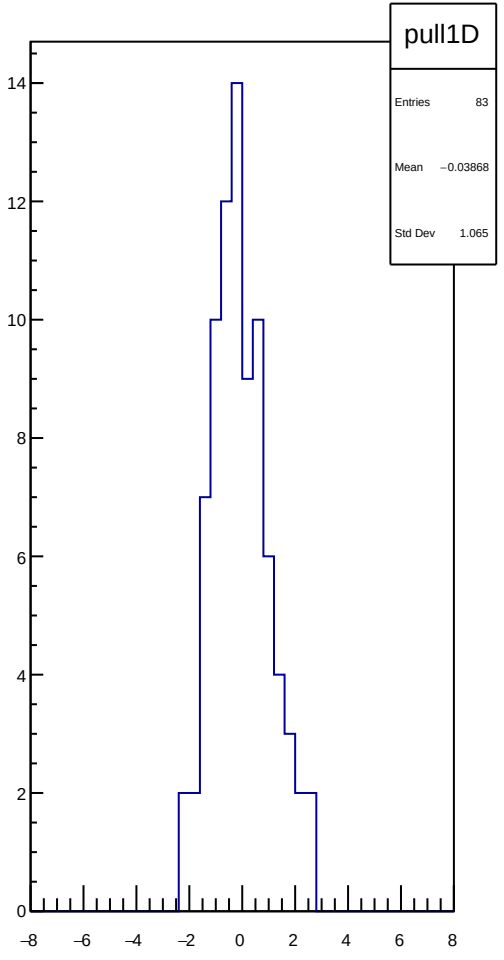

pull1D
Entries 83
Mean 0.03623
Std Dev 0.6982

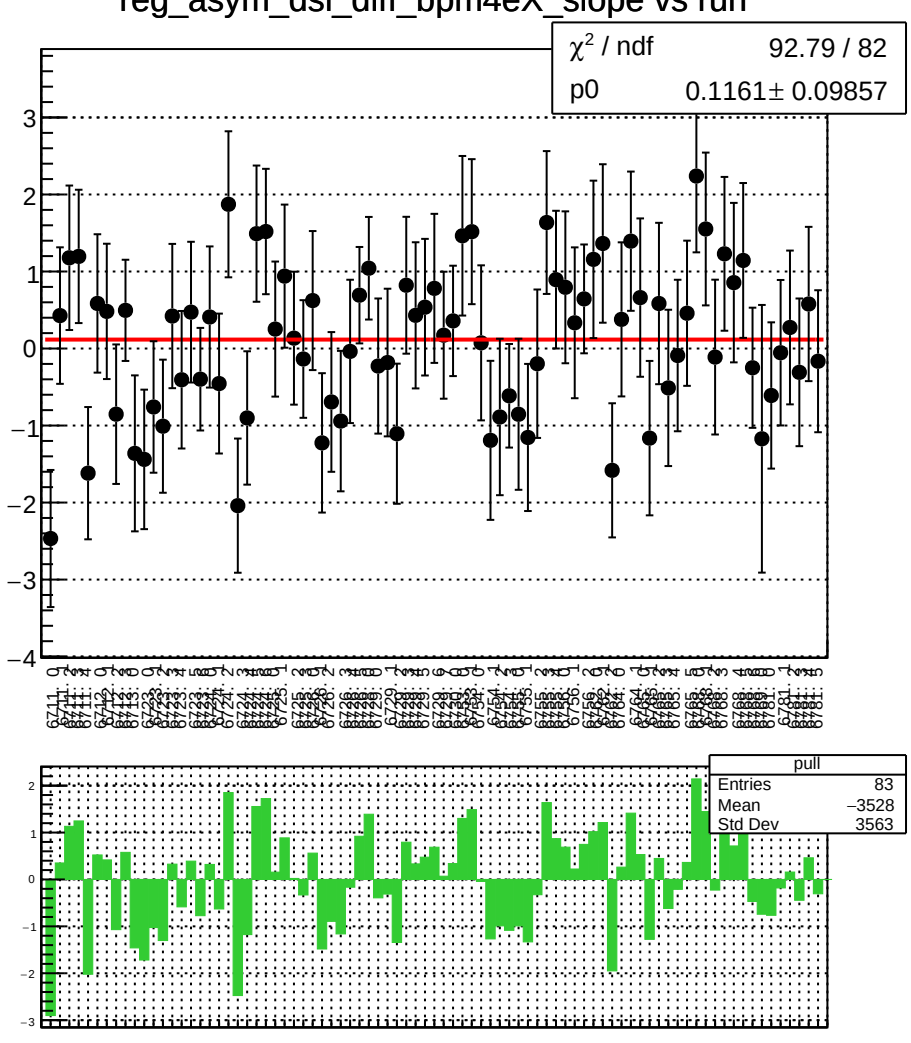

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 204.3 / 82
p0 −38.62 ± 0.07779
pull
Entries 83
Mean −248.2
Std Dev 293.7

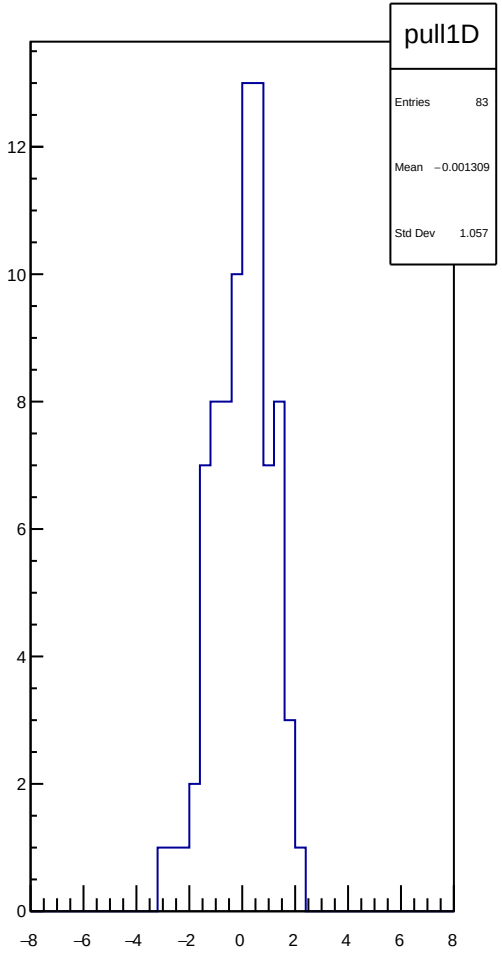

pull1D
Entries 83
Mean −0.08633
Std Dev 1.566

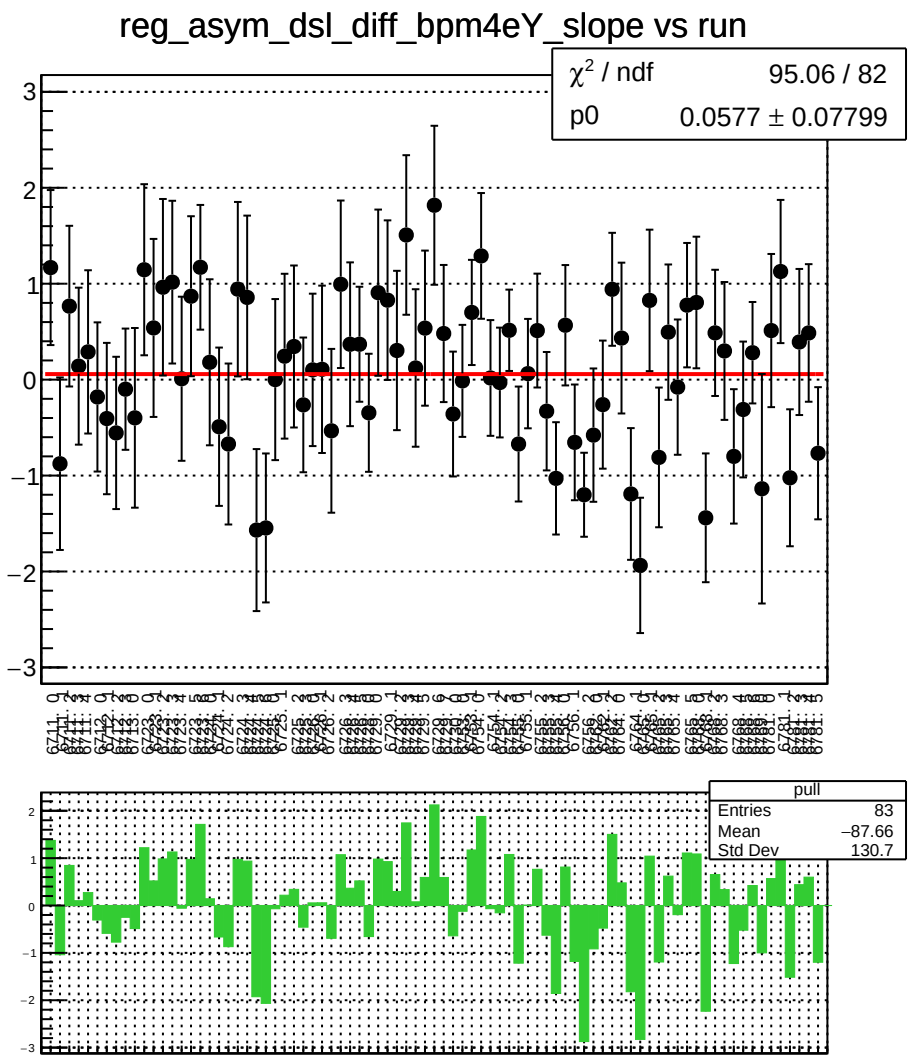

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 89.17 / 82
p0 −0.1391± 0.1029
pull
Entries 83
Mean 5725
Std Dev 5690
pull1D
Entries 83
Mean −0.0007629
Std Dev 1.036

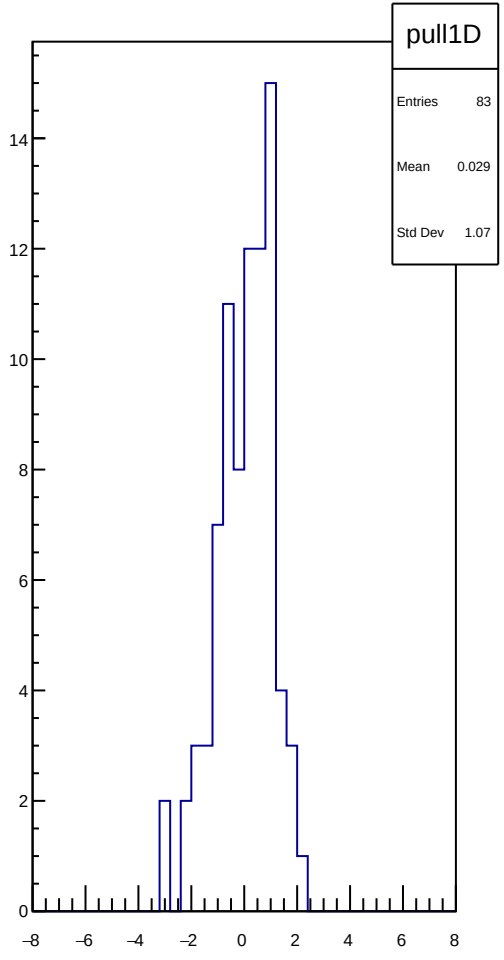

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 94.18 / 82
p0 −0.03595 ± 0.06115
pull
Entries 83
Mean −27.93
Std Dev 69.42

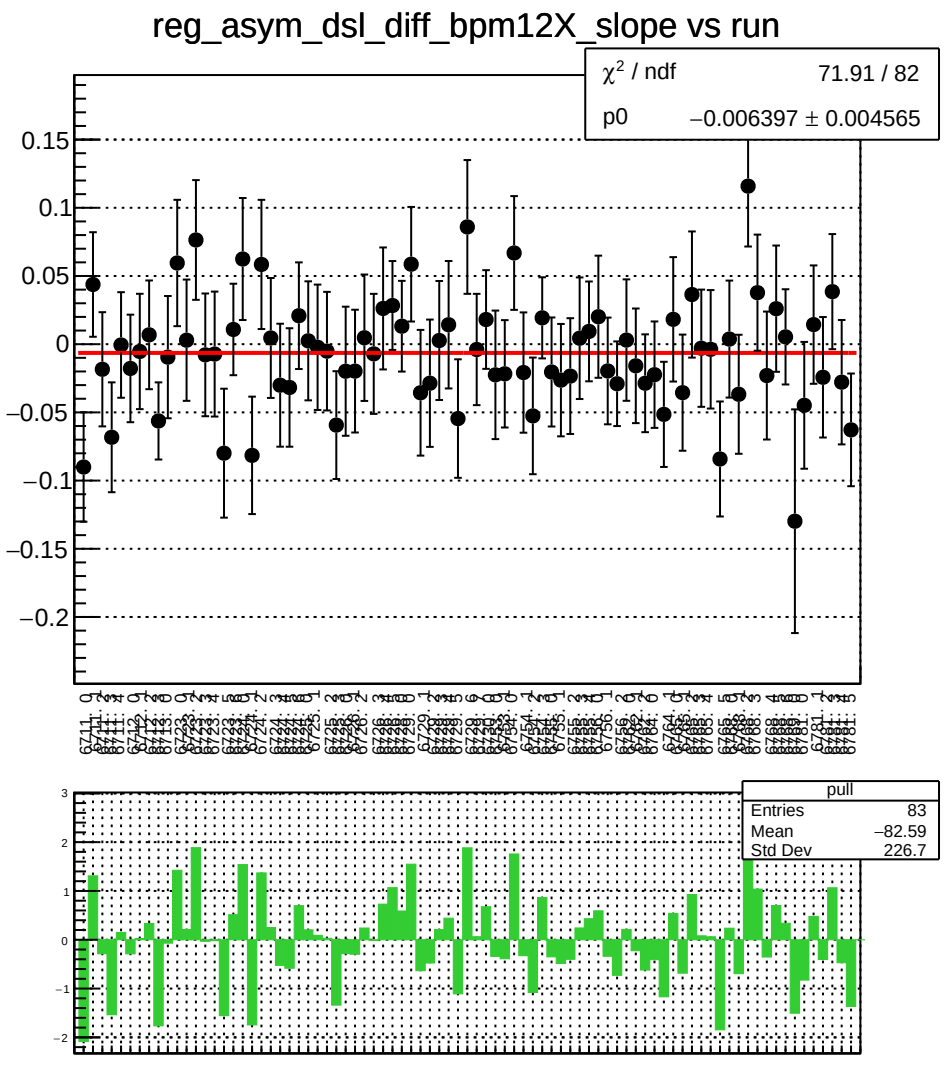

pull1D
Entries 83
Mean −0.03868
Std Dev 1.065

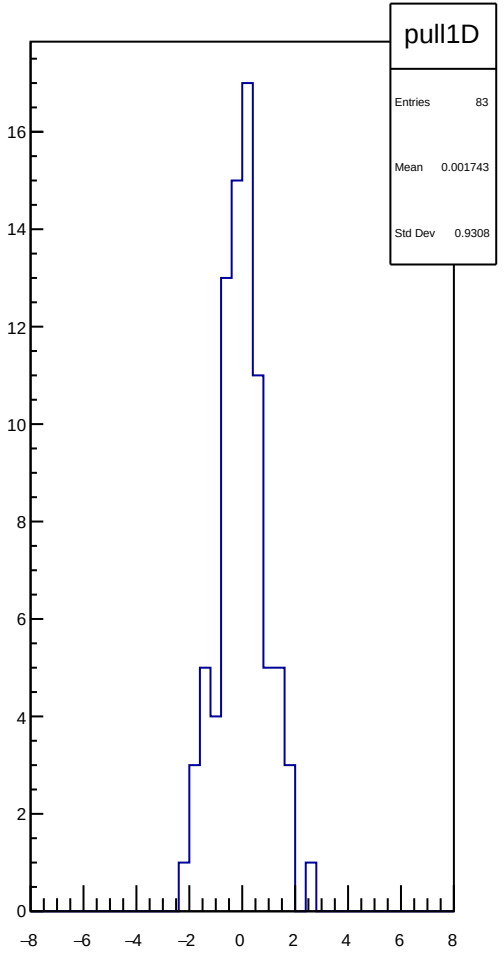

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 92.79 / 82
p0 0.1161± 0.09857
pull
Entries 83
Mean −3528
Std Dev 3563

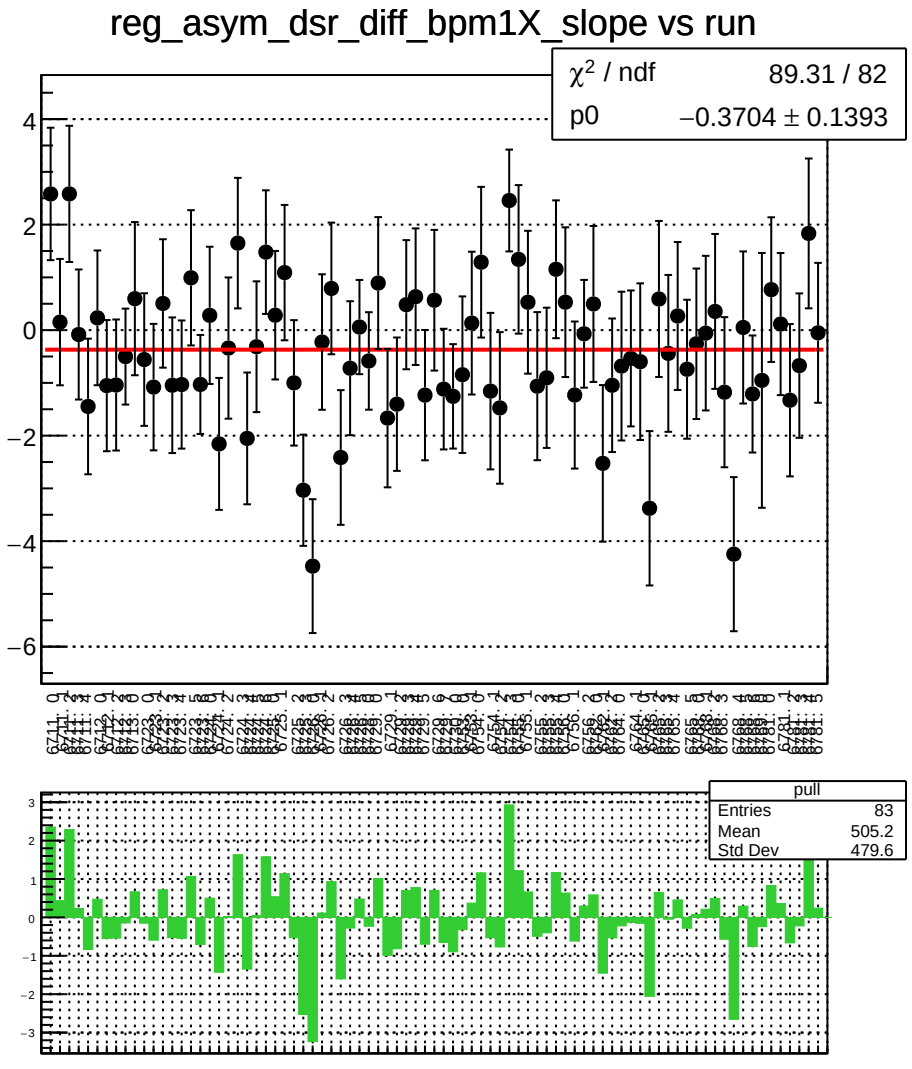

pull1D
Entries 83
Mean −0.001309
Std Dev 1.057

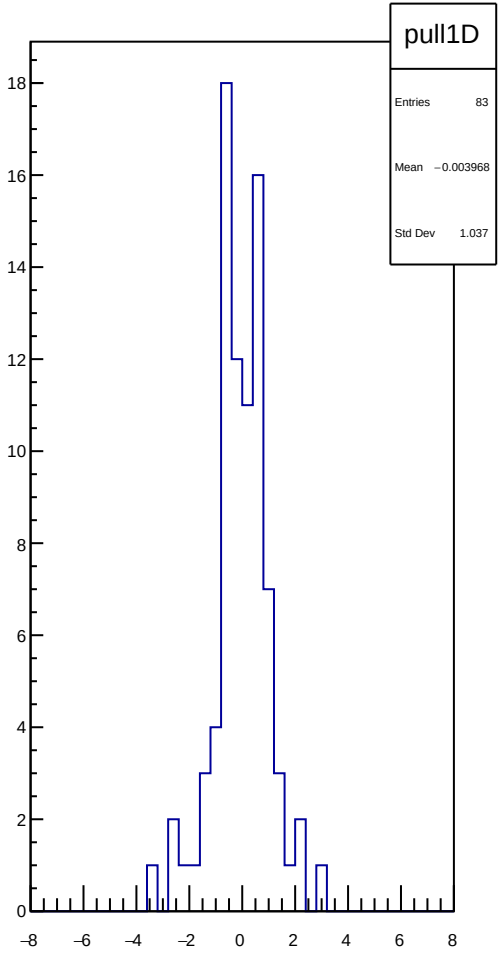

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 95.06 / 82
p0 0.0577 ± 0.07799
pull
Entries 83
Mean −87.66
Std Dev 130.7

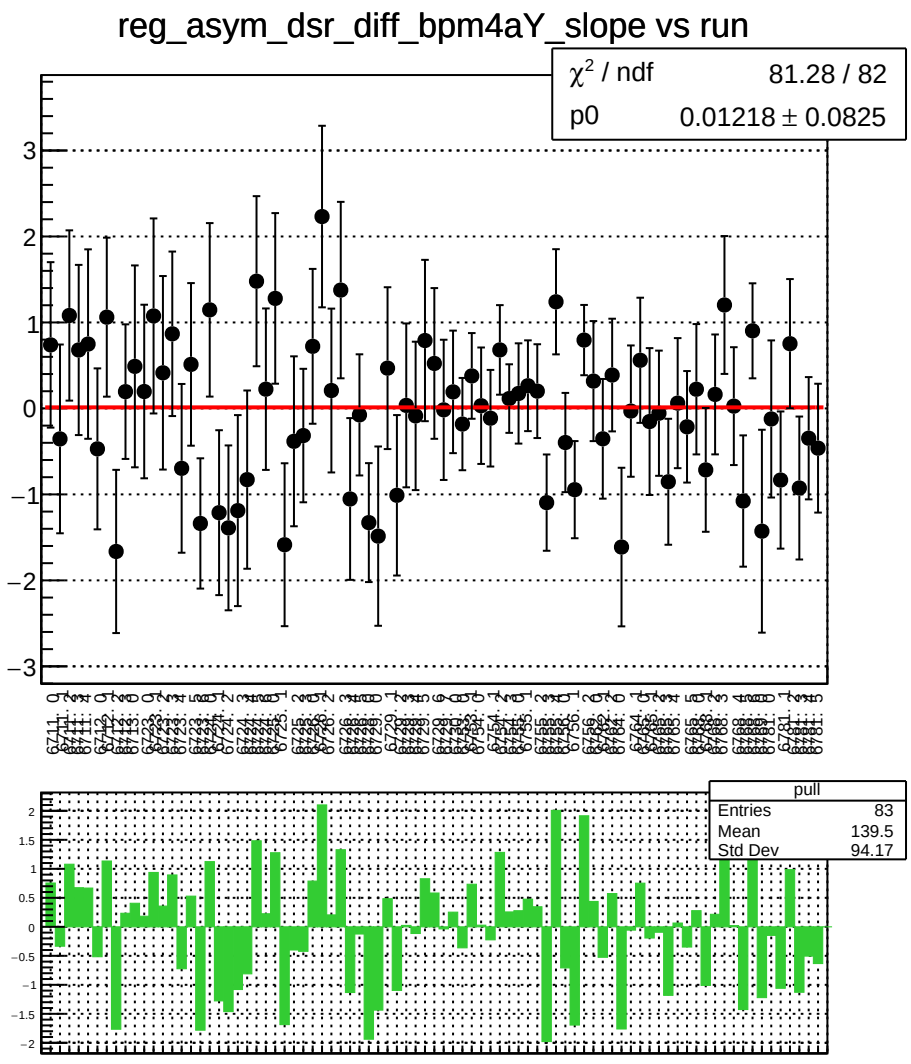

pull1D
Entries 83
Mean 0.029
Std Dev 1.07

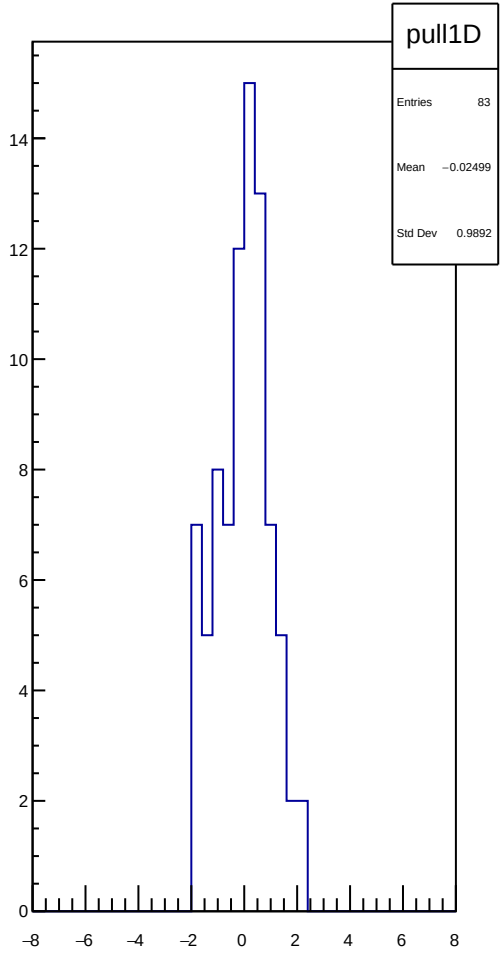

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 71.91 / 82
p0 −0.006397 ± 0.004565
pull
Entries 83
Mean −82.59
Std Dev 226.7

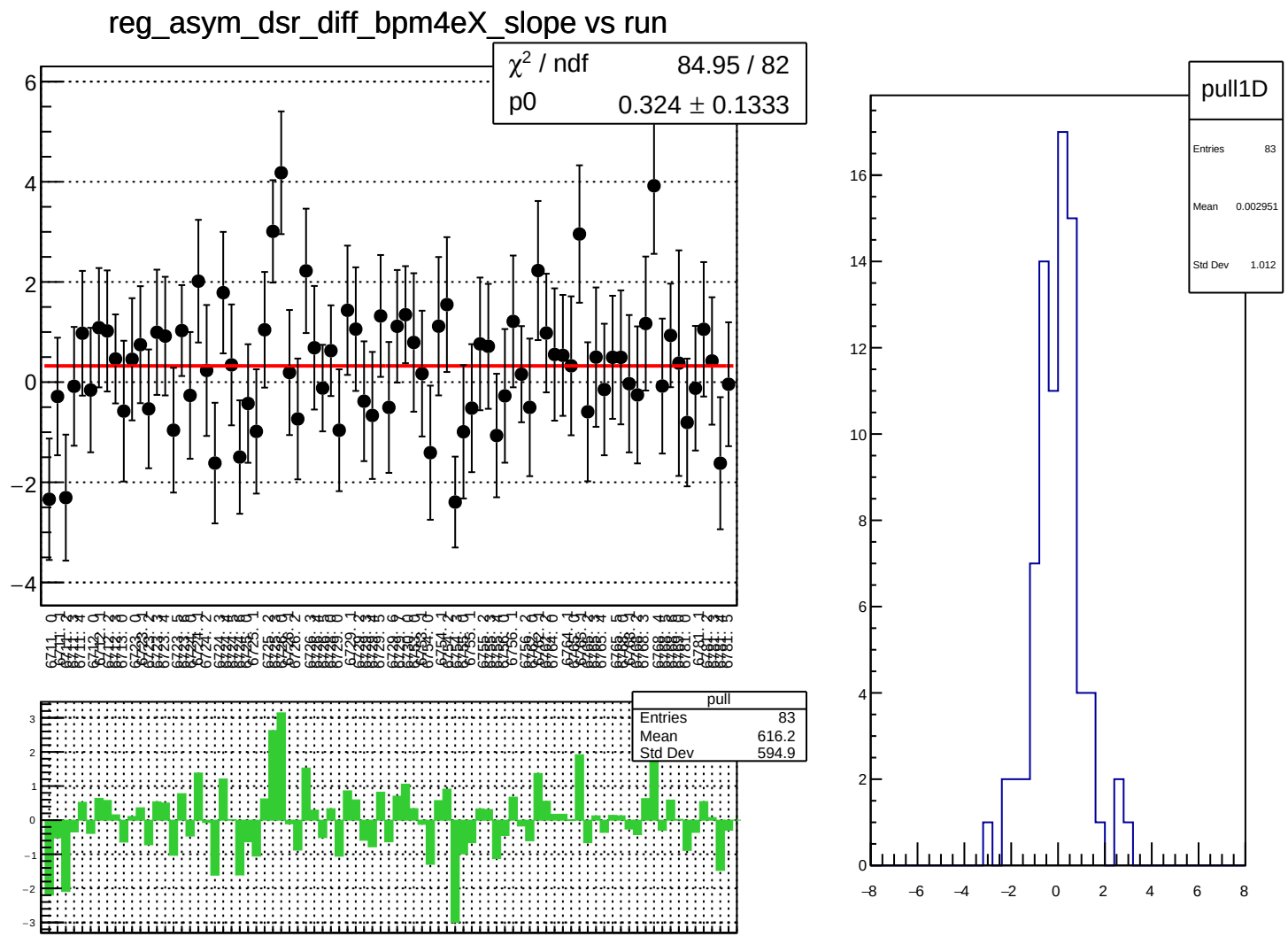

pull1D
Entries 83
Mean 0.001743
Std Dev 0.9308

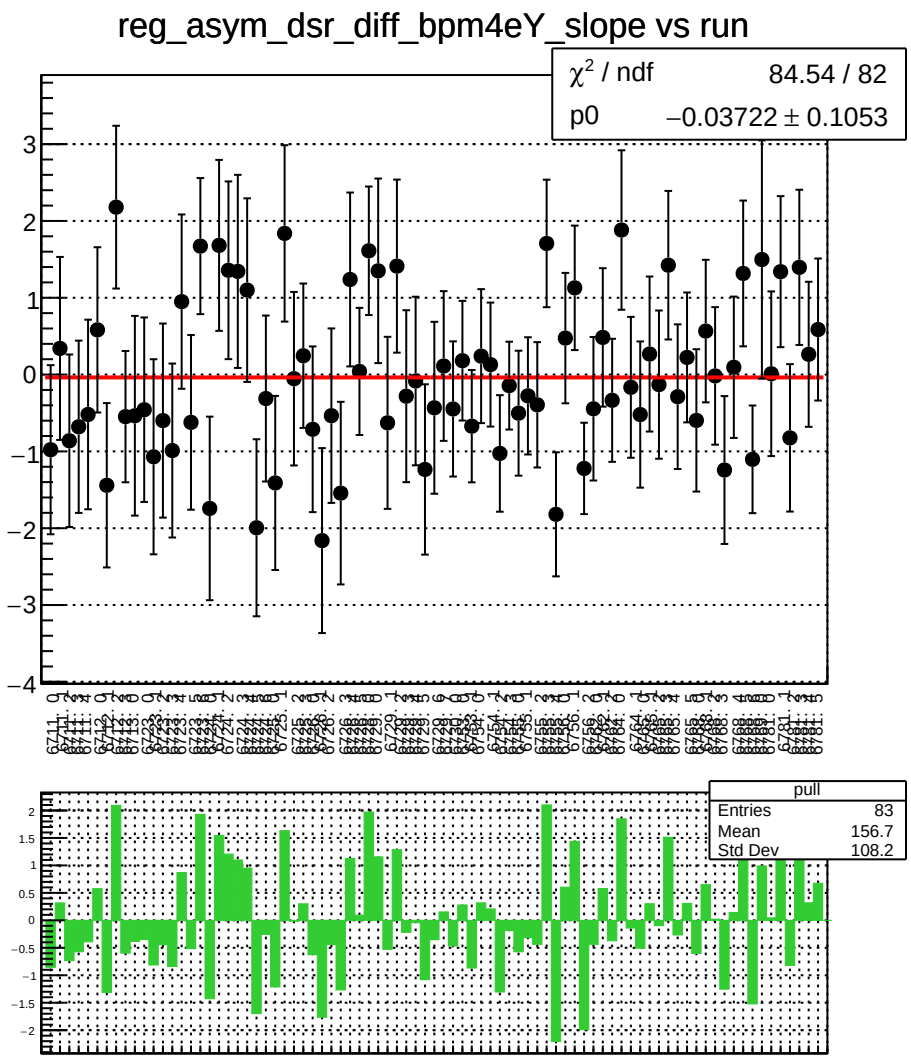

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 89.31 / 82
p0 −0.3704 ± 0.1393
pull
Entries 83
Mean 505.2
Std Dev 479.6

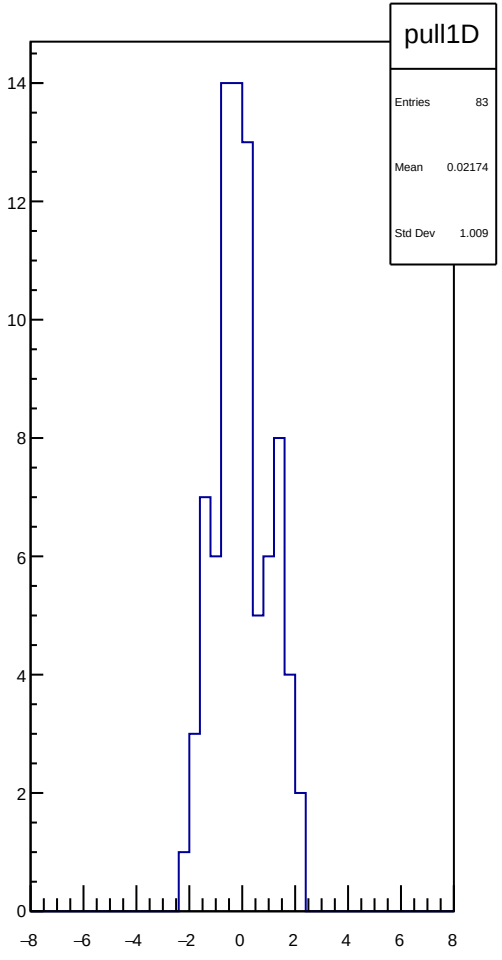

pull1D
Entries 83
Mean −0.003968
Std Dev 1.037

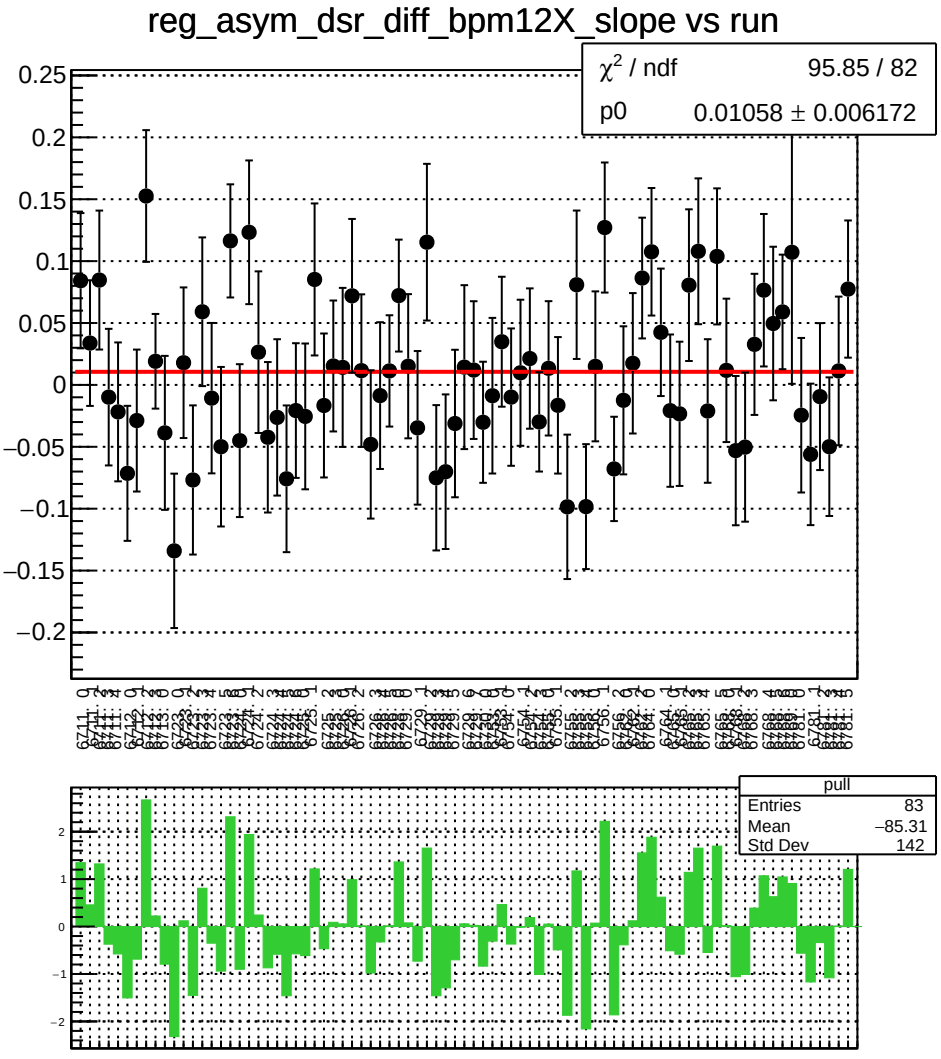

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 81.28 / 82
p0 0.01218 ± 0.0825
pull
Entries 83
Mean 139.5
Std Dev 94.17

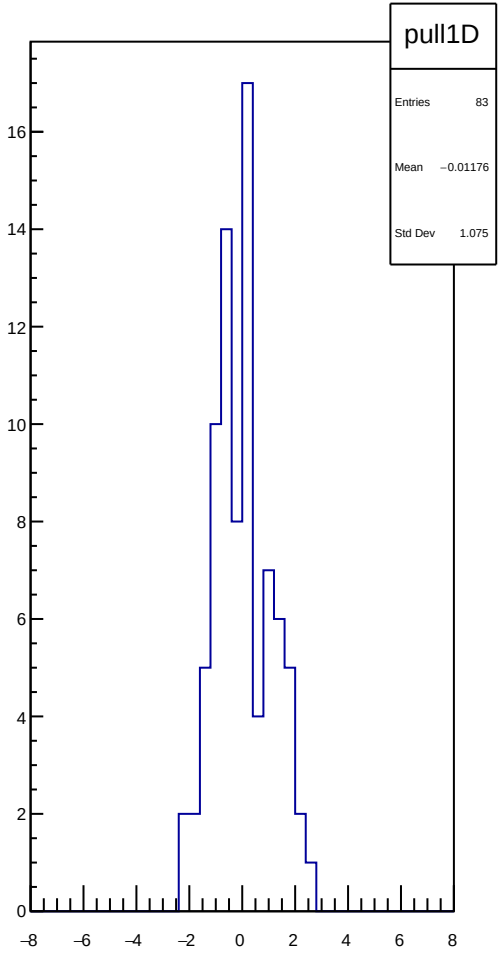

pull1D
Entries 83
Mean −0.02499
Std Dev 0.9892

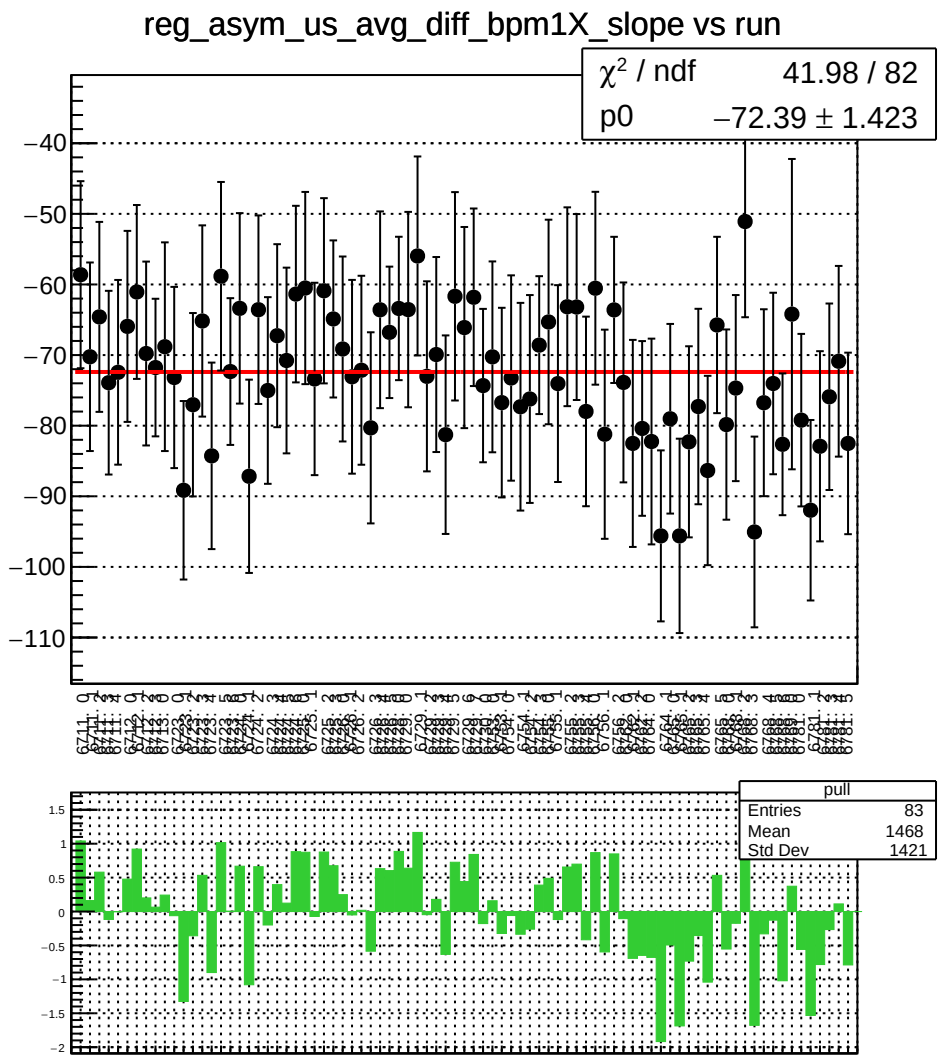

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 84.95 / 82
p0 0.324 ± 0.1333
pull
Entries 83
Mean 616.2
Std Dev 594.9
pull1D
Entries 83
Mean 0.002951
Std Dev 1.012

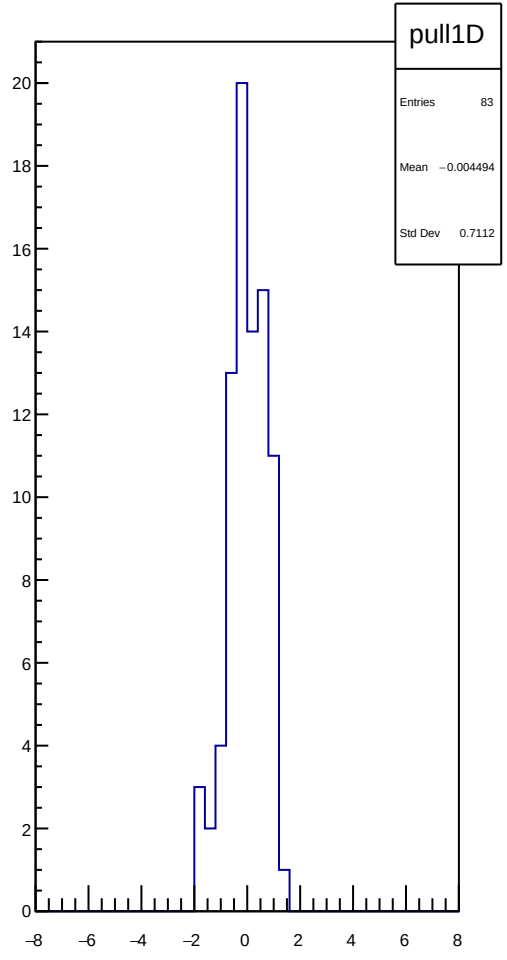

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 84.54 / 82
p0 −0.03722 ± 0.1053
pull
Entries 83
Mean 156.7
Std Dev 108.2

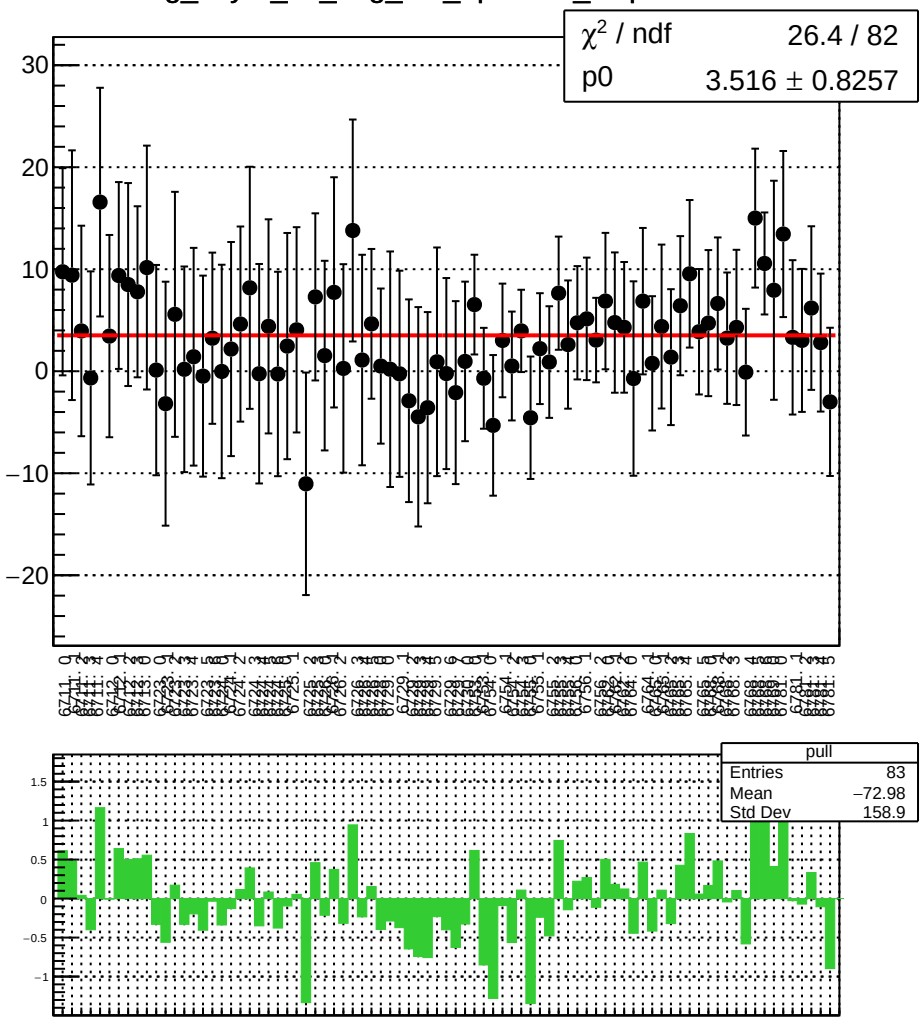

pull1D
Entries 83
Mean 0.02174
Std Dev 1.009

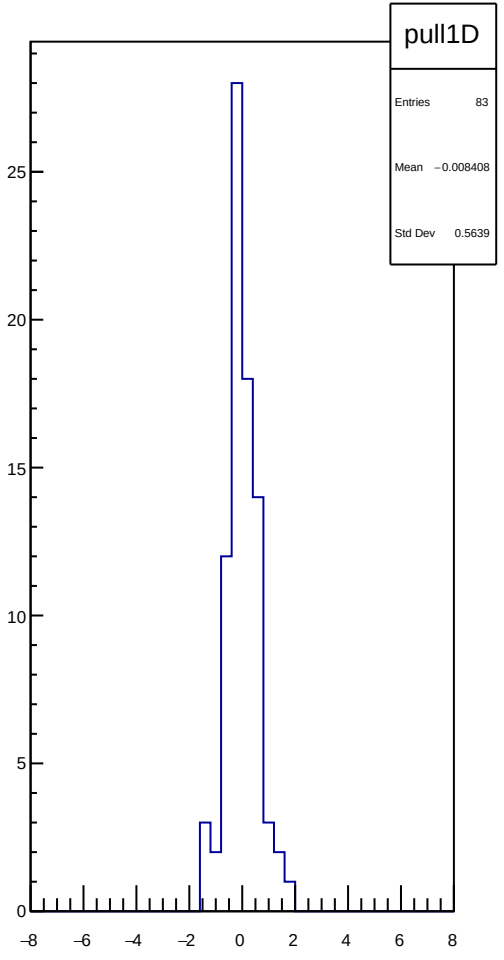

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 95.85 / 82
p0 0.01058 ± 0.006172
pull
Entries 83
Mean −85.31
Std Dev 142

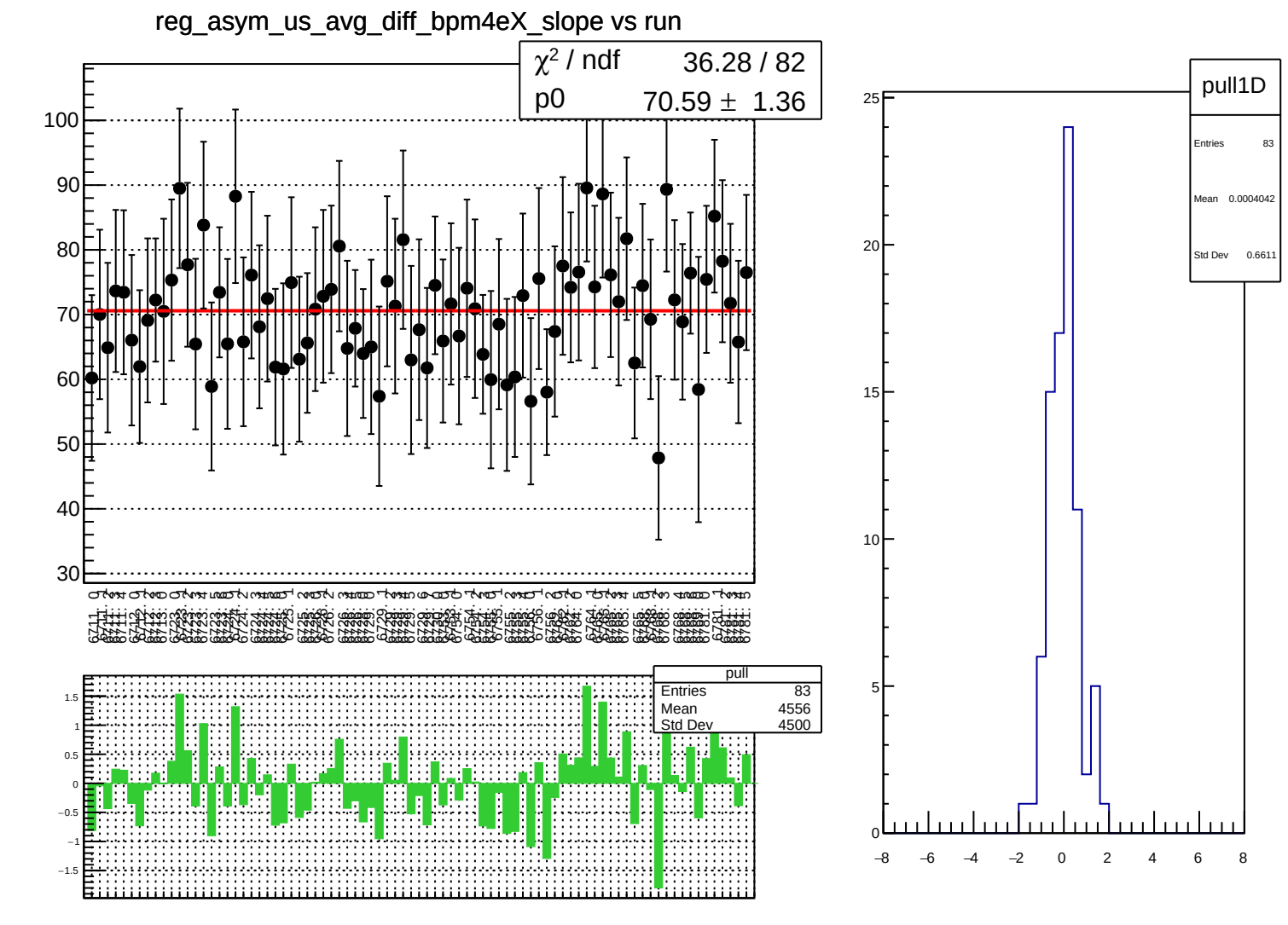

pull1D
Entries 83
Mean −0.01176
Std Dev 1.075

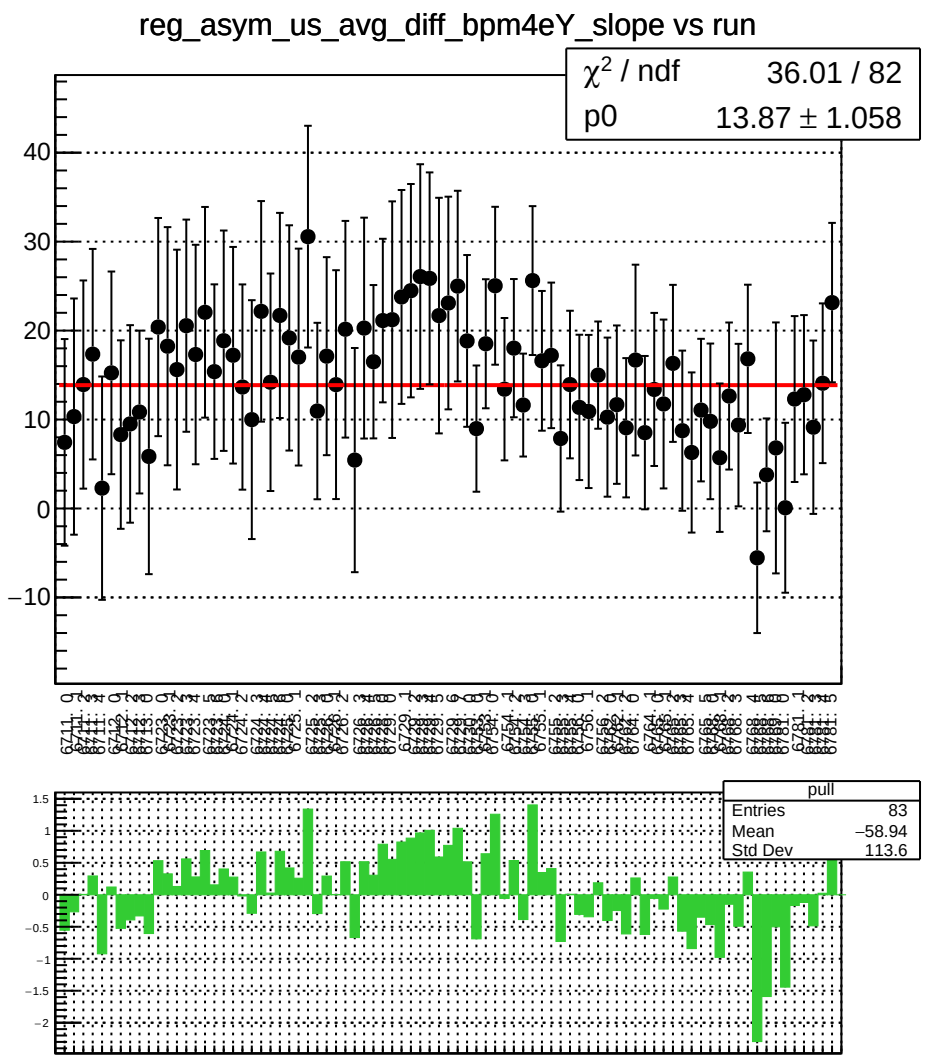

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 41.98 / 82
p0 −72.39 ± 1.423
pull
Entries 83
Mean 1468
Std Dev 1421

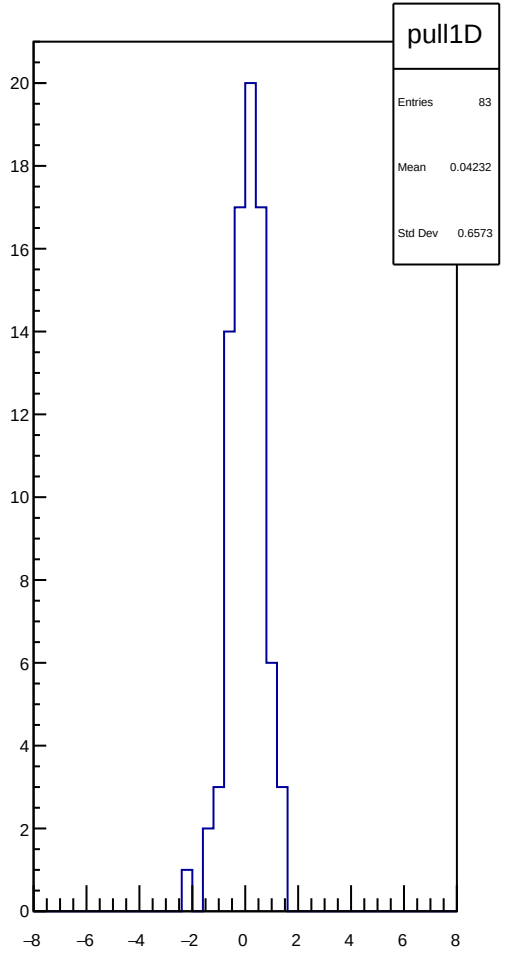

pull1D
Entries 83
Mean −0.004494
Std Dev 0.7112

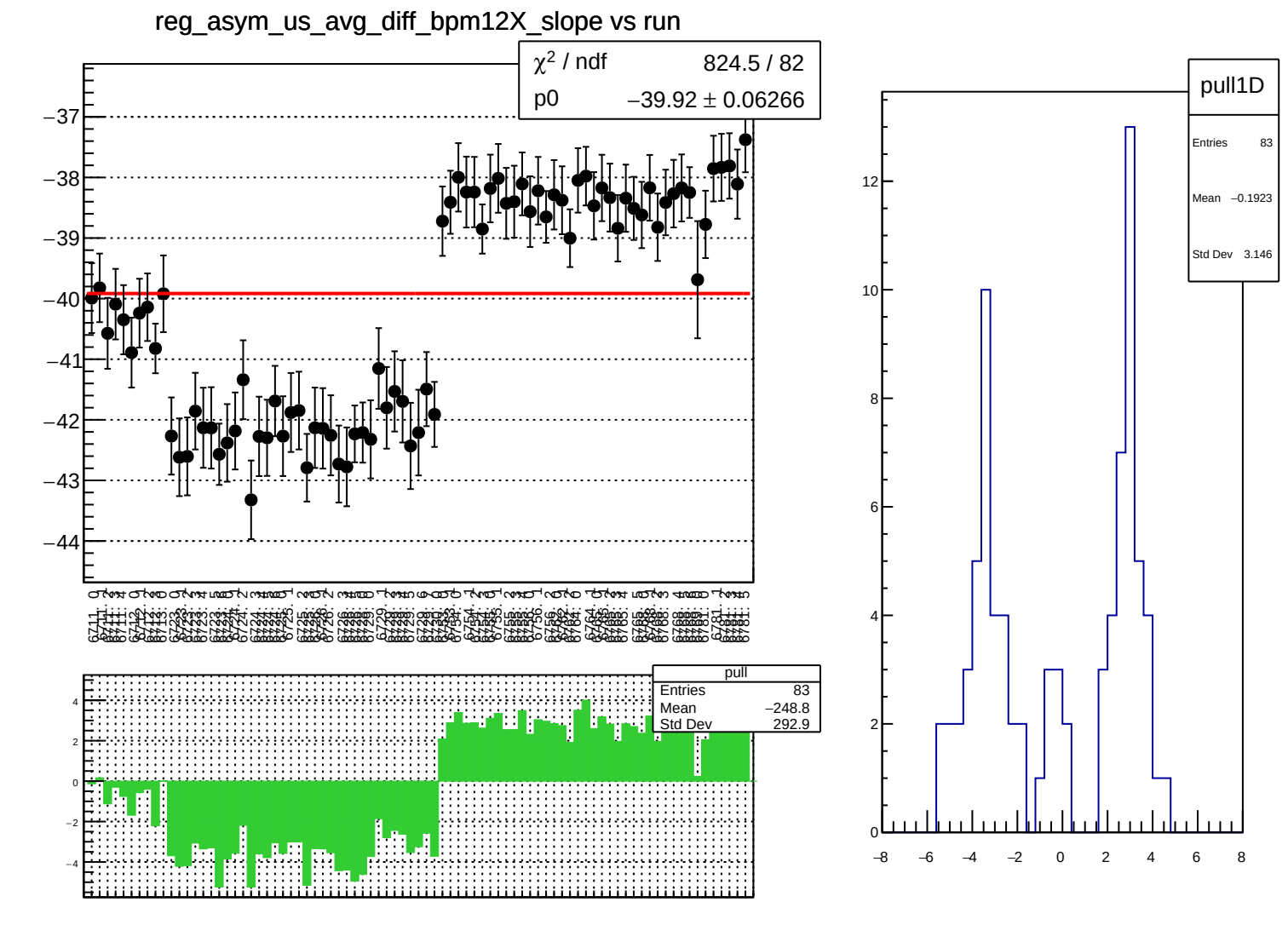

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.4 / 82
p0 3.516 ± 0.8257
pull
Entries 83
Mean −72.98
Std Dev 158.9

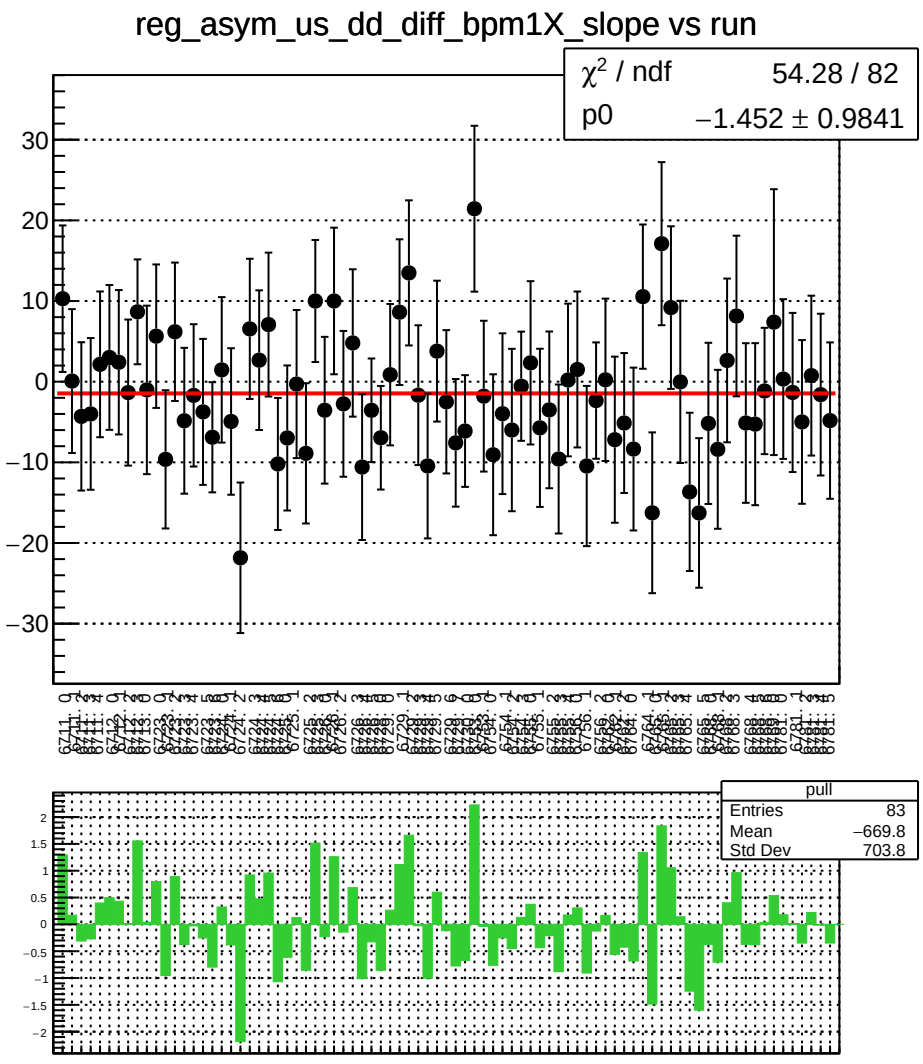

pull1D
Entries 83
Mean −0.008408
Std Dev 0.5639

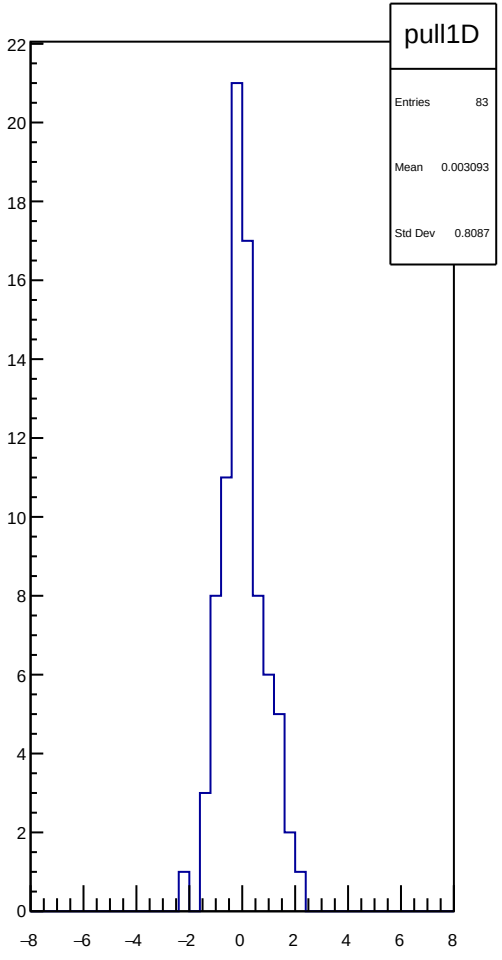

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.28 / 82
p0 70.59 ± 1.36
pull
Entries 83
Mean 4556
Std Dev 4500
pull1D
Entries 83
Mean 0.0004042
Std Dev 0.6611

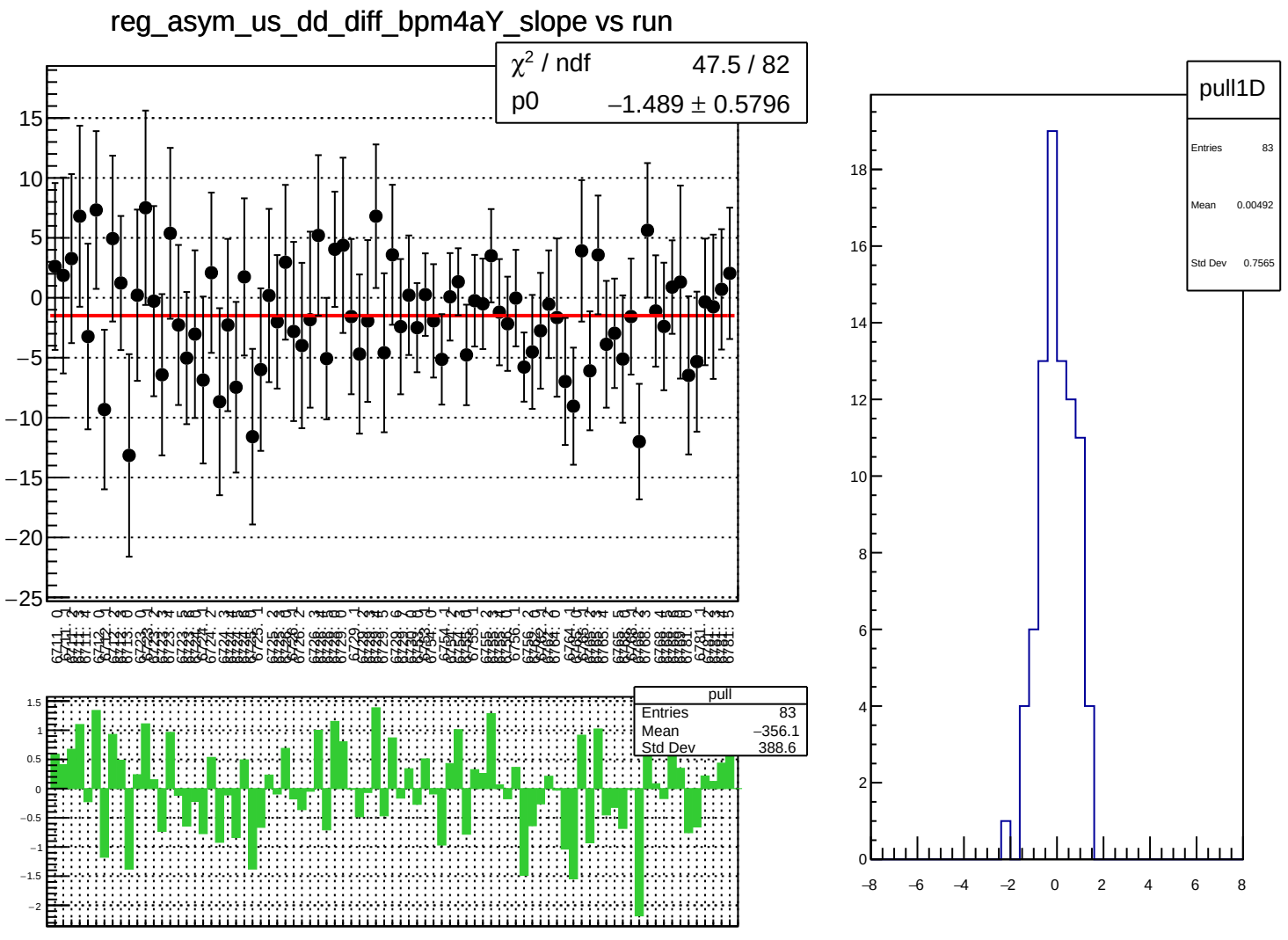

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.01 / 82
p0 13.87 ± 1.058
pull
Entries 83
Mean −58.94
Std Dev 113.6

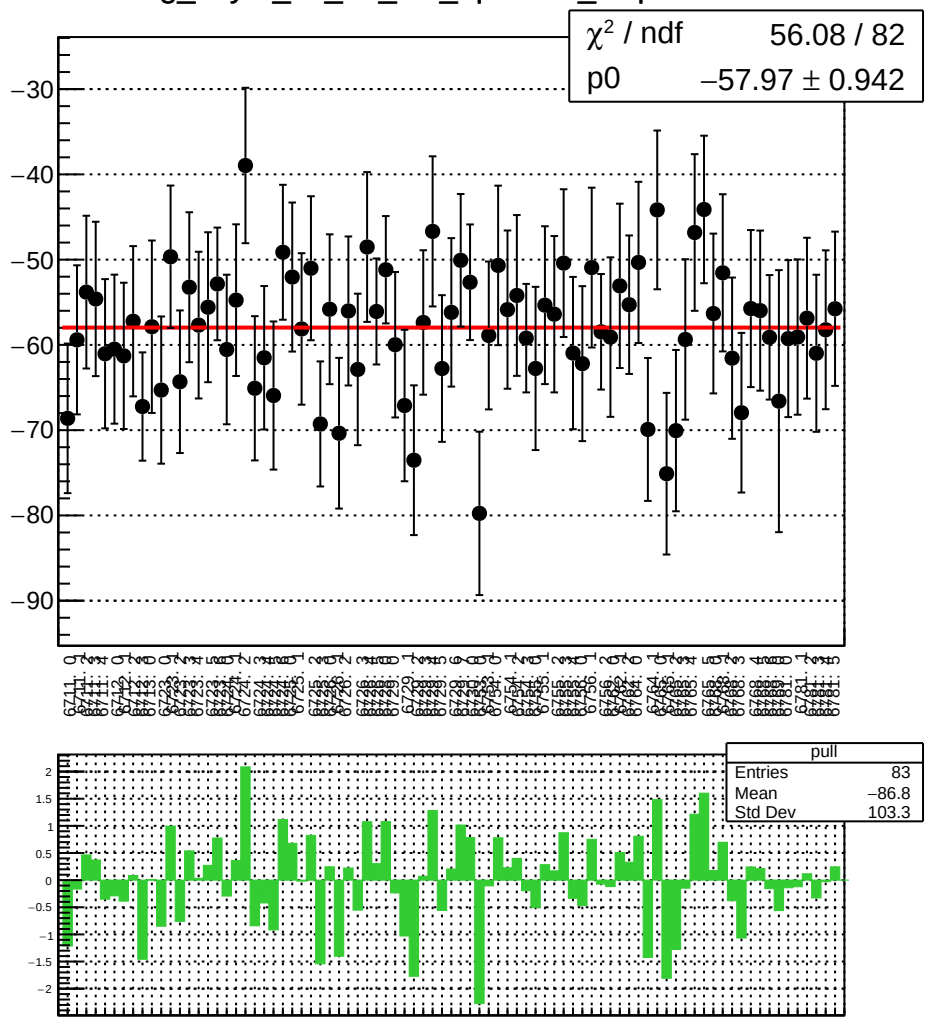

pull1D
Entries 83
Mean 0.04232
Std Dev 0.6573

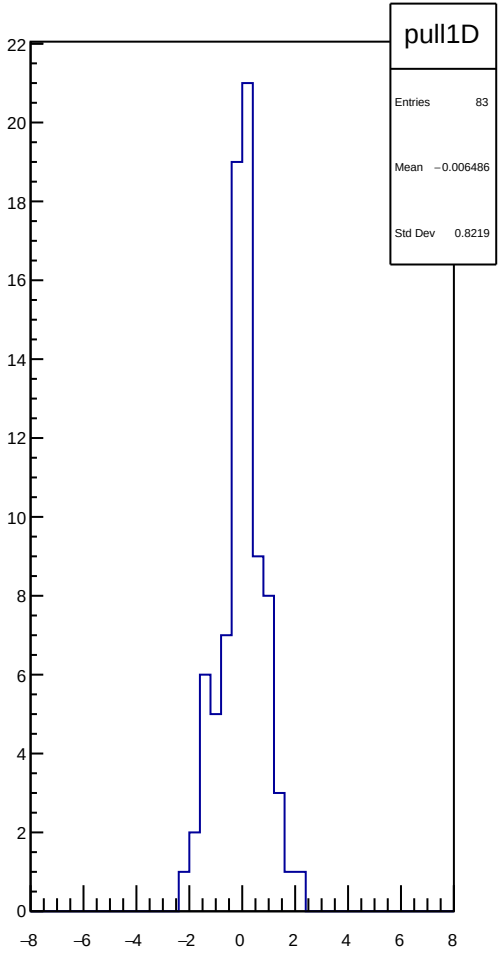

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 824.5 / 82
p0 −39.92 ± 0.06266
pull
Entries 83
Mean −248.8
Std Dev 292.9
pull1D
Entries 83
Mean −0.1923
Std Dev 3.146

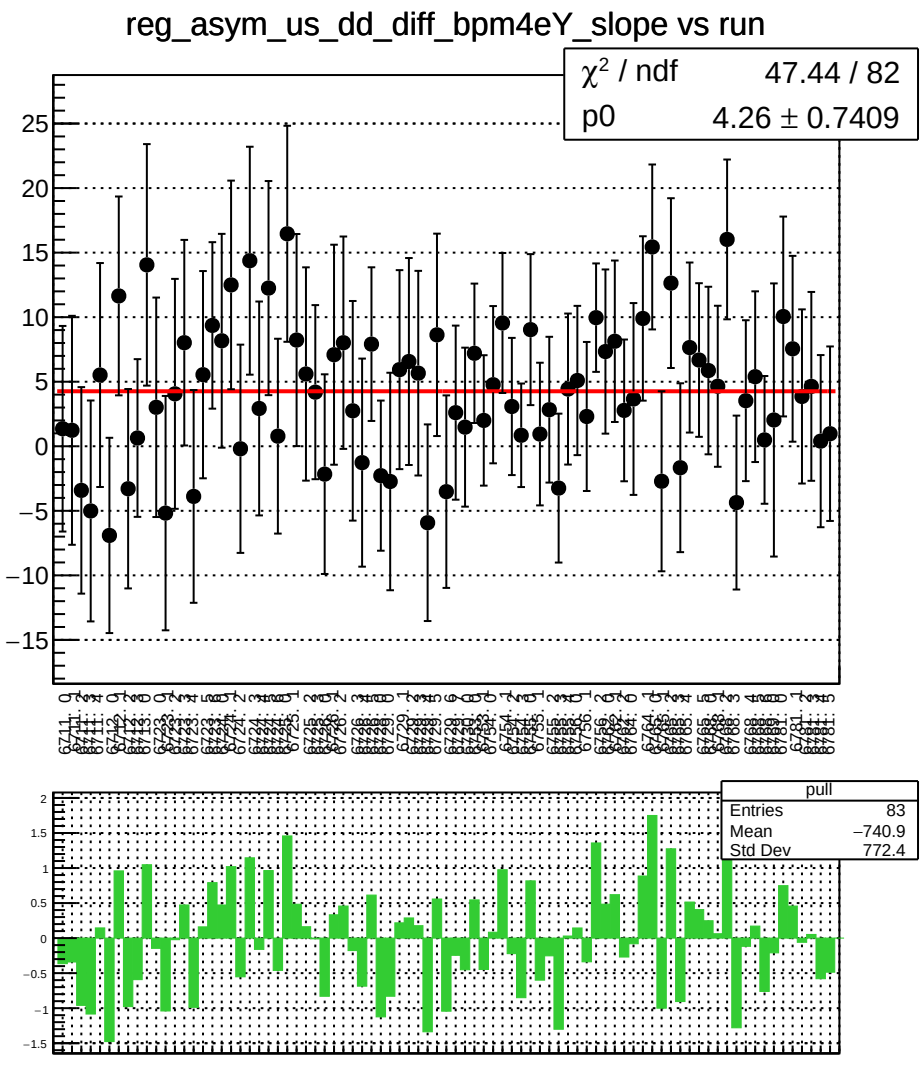

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 54.28 / 82
p0 −1.452 ± 0.9841
pull
Entries 83
Mean −669.8
Std Dev 703.8

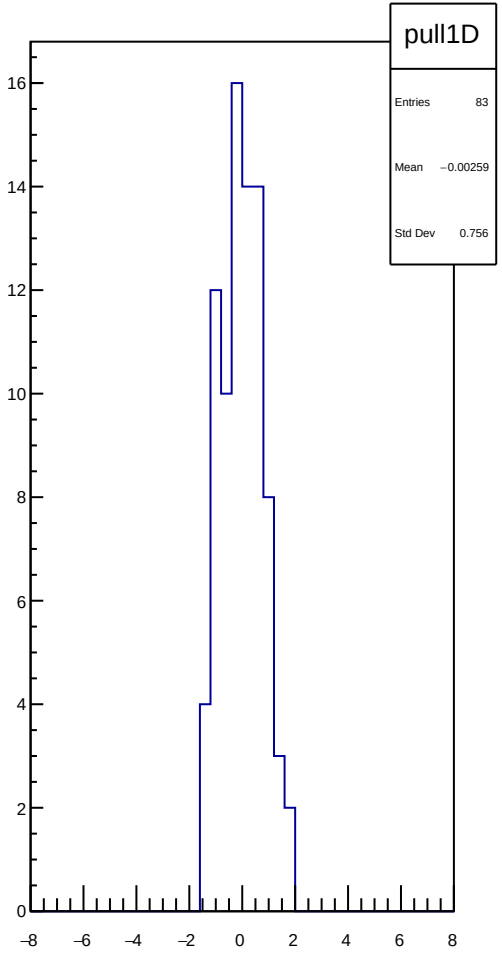

pull1D
Entries 83
Mean 0.003093
Std Dev 0.8087

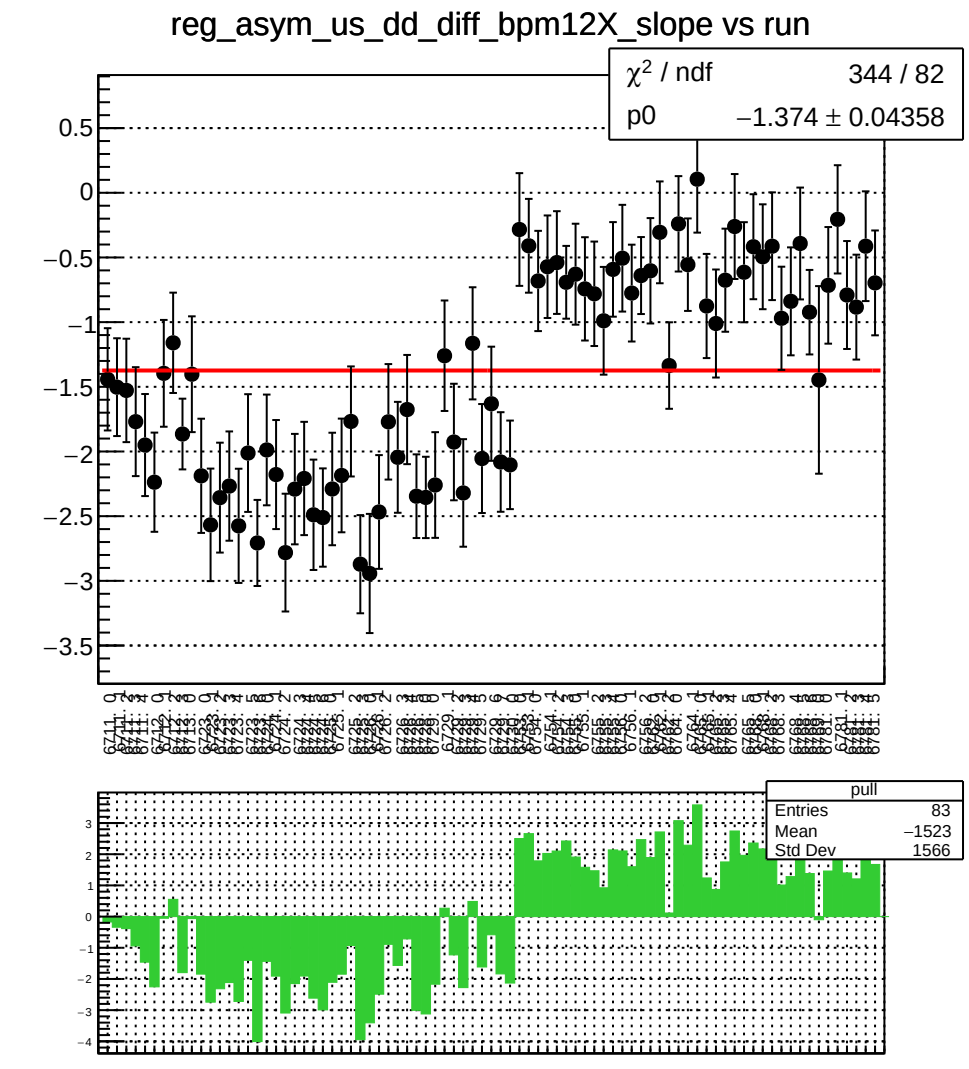

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.5 / 82
p0 −1.489 ± 0.5796
pull
Entries 83
Mean −356.1
Std Dev 388.6
pull1D
Entries 83
Mean 0.00492
Std Dev 0.7565

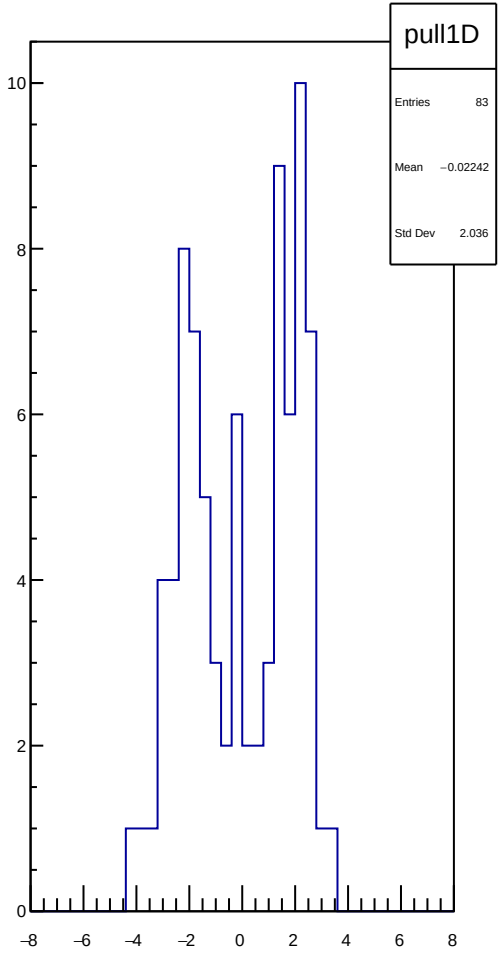

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 56.08 / 82
p0 −57.97 ± 0.942
pull
Entries 83
Mean −86.8
Std Dev 103.3

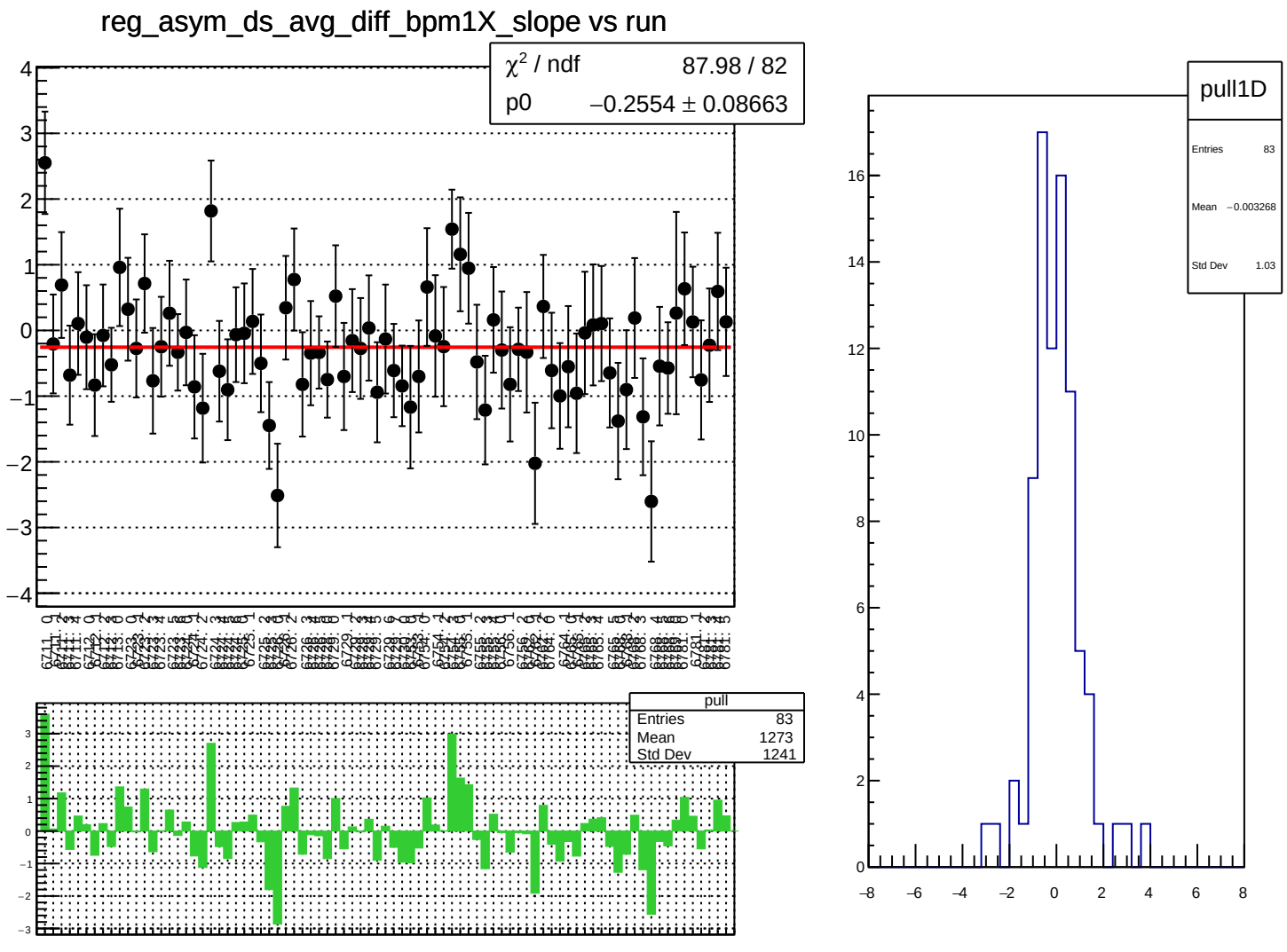

pull1D
Entries 83
Mean −0.006486
Std Dev 0.8219

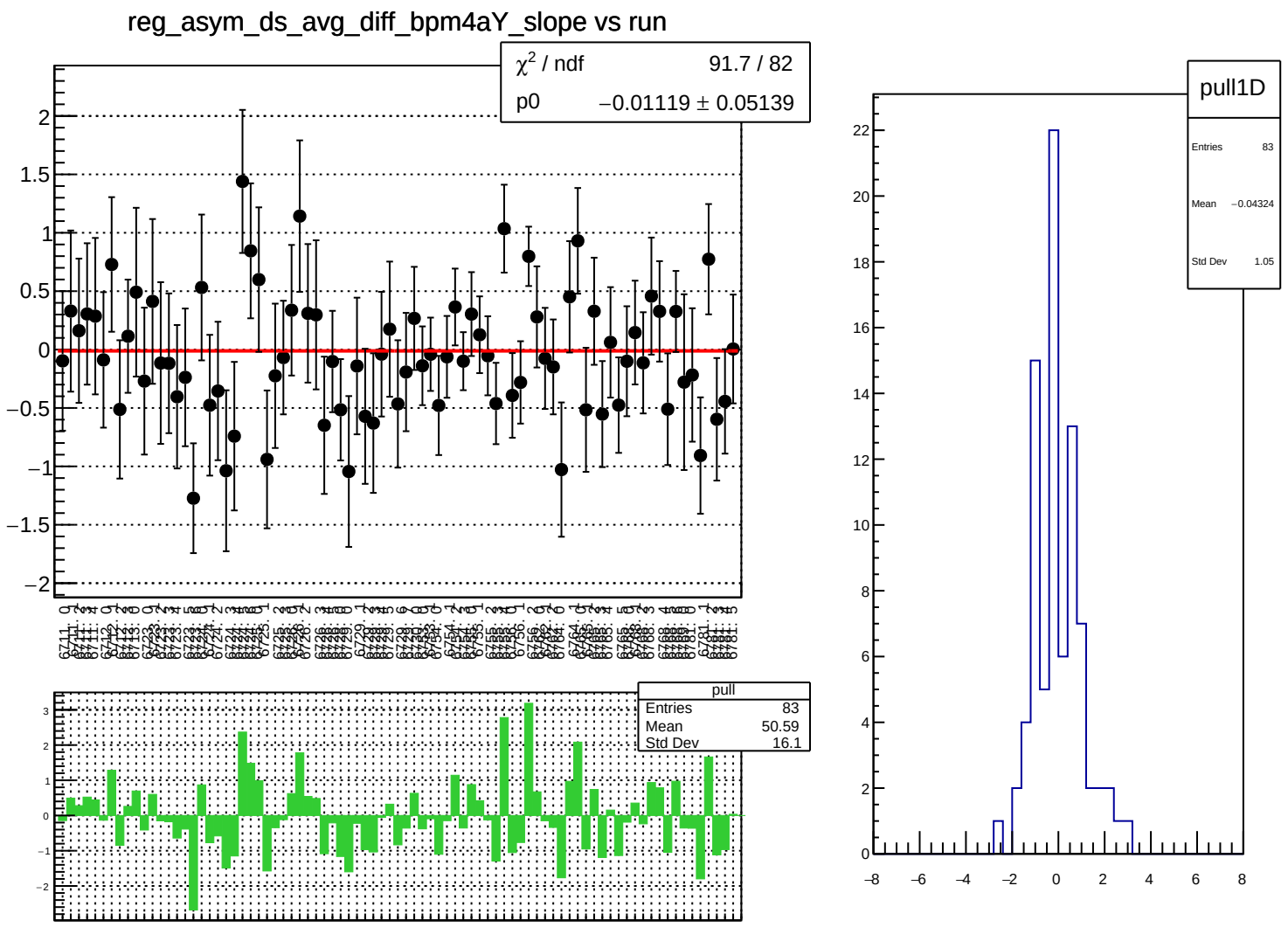

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.44 / 82
p0 4.26 ± 0.7409
pull
Entries 83
Mean −740.9
Std Dev 772.4

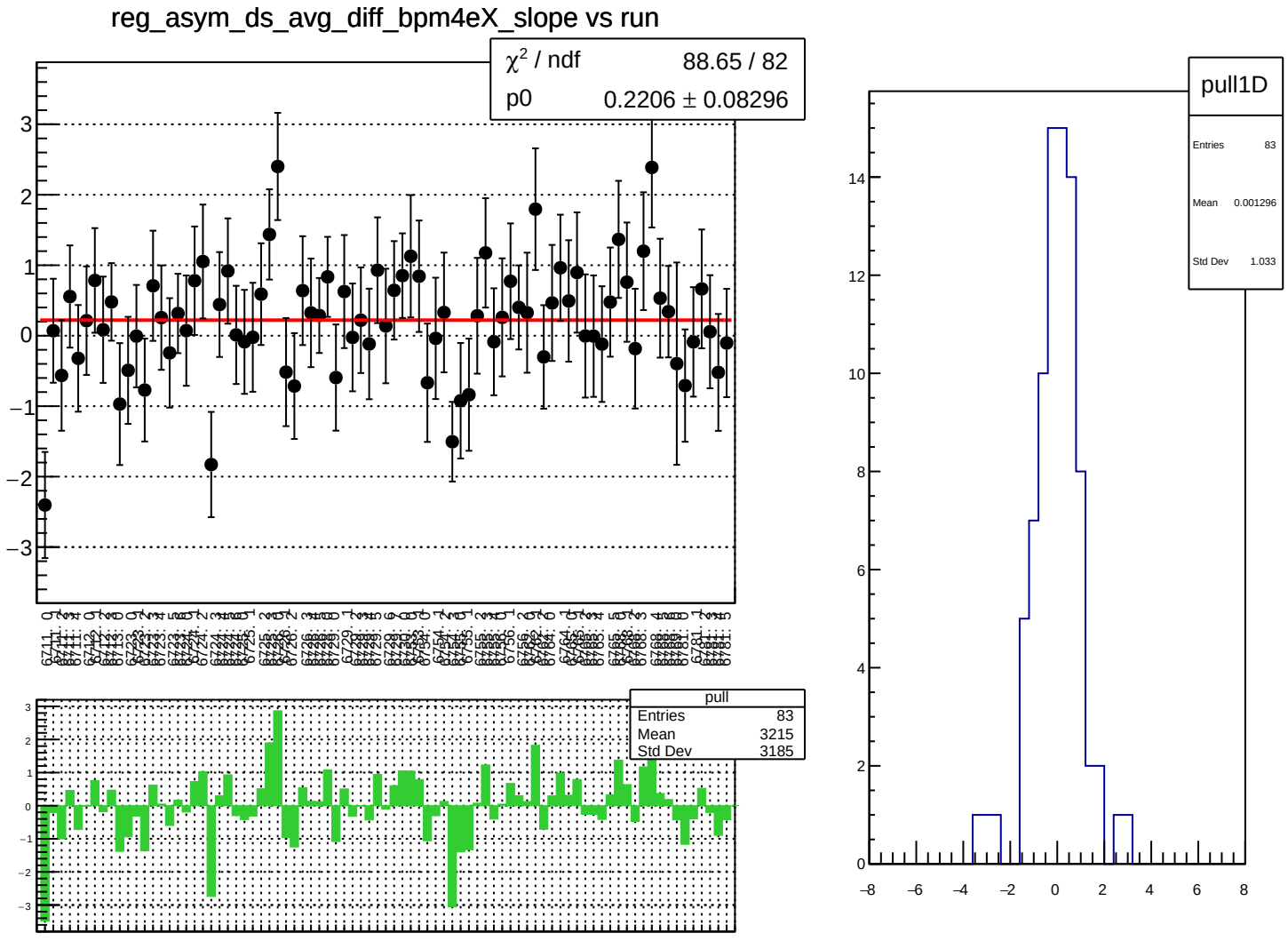

pull1D
Entries 83
Mean −0.00259
Std Dev 0.756

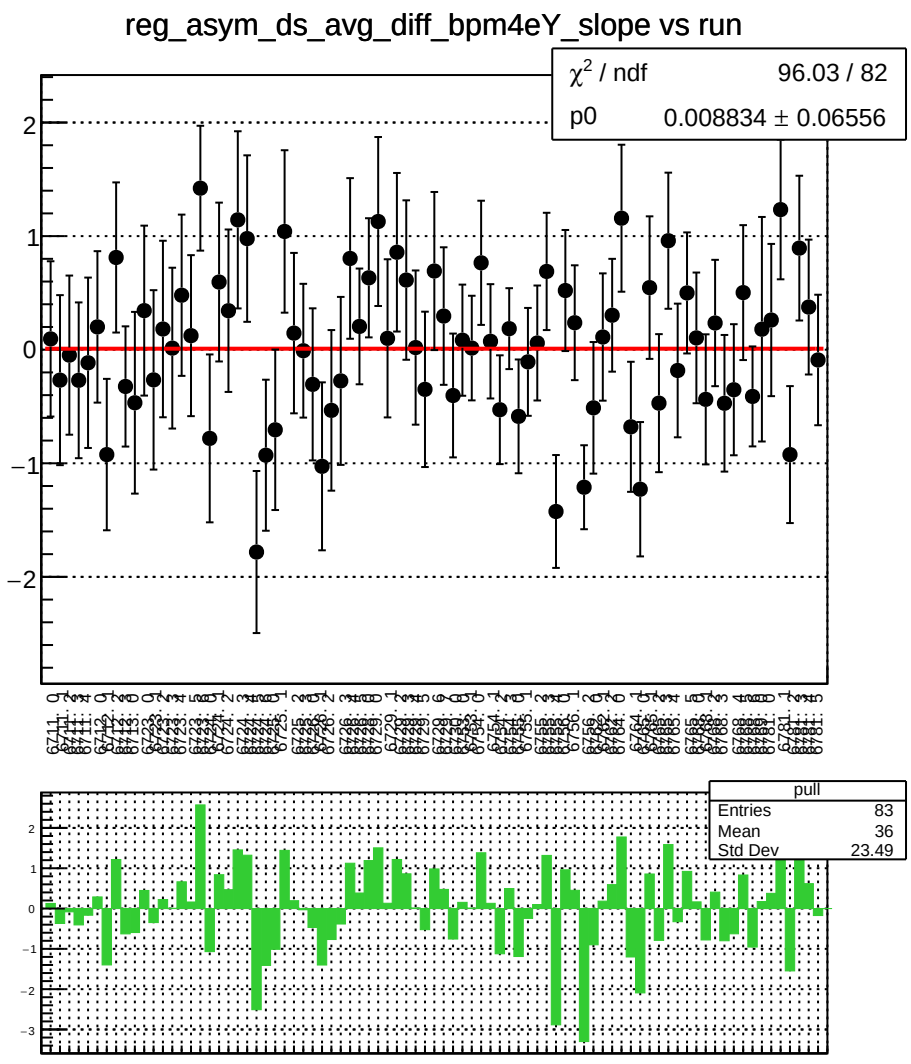

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 344 / 82
p0 −1.374 ± 0.04358
pull
Entries 83
Mean −1523
Std Dev 1566

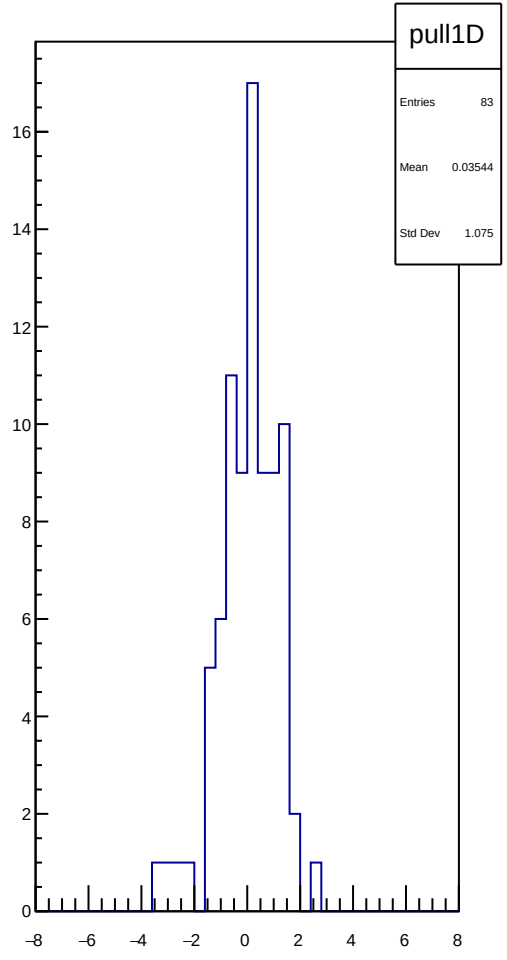

pull1D
Entries 83
Mean −0.02242
Std Dev 2.036

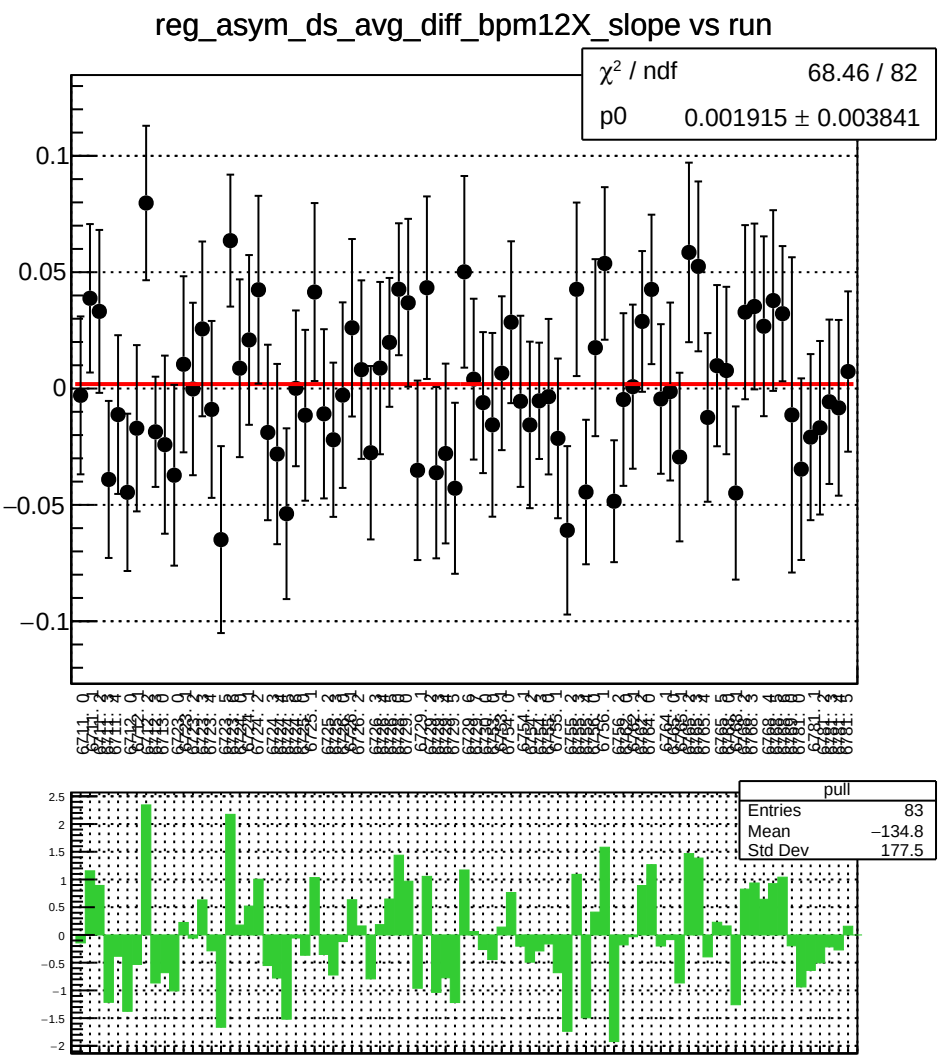

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 87.98 / 82
p0 −0.2554 ± 0.08663
pull
Entries 83
Mean 1273
Std Dev 1241
pull1D
Entries 83
Mean −0.003268
Std Dev 1.03

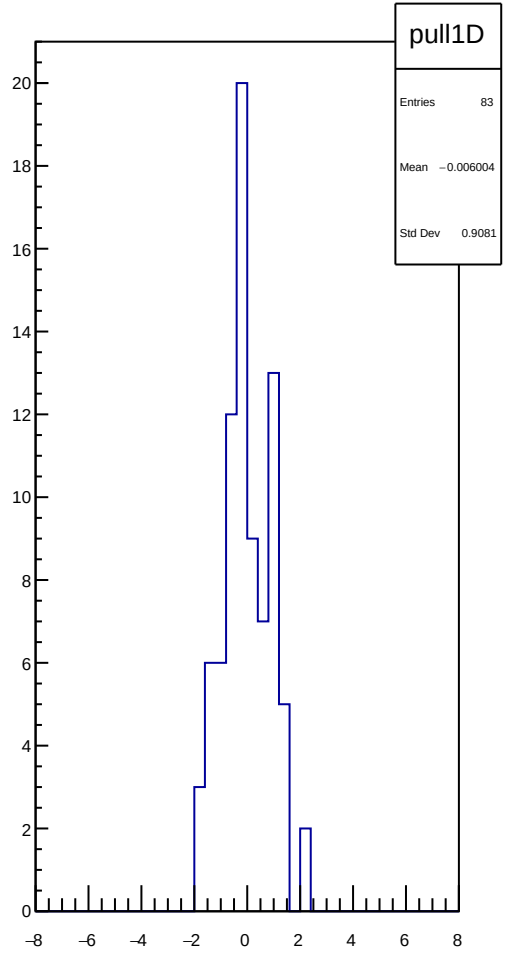

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 91.7 / 82
p0 −0.01119 ± 0.05139
pull
Entries 83
Mean 50.59
Std Dev 16.1
pull1D
Entries 83
Mean −0.04324
Std Dev 1.05

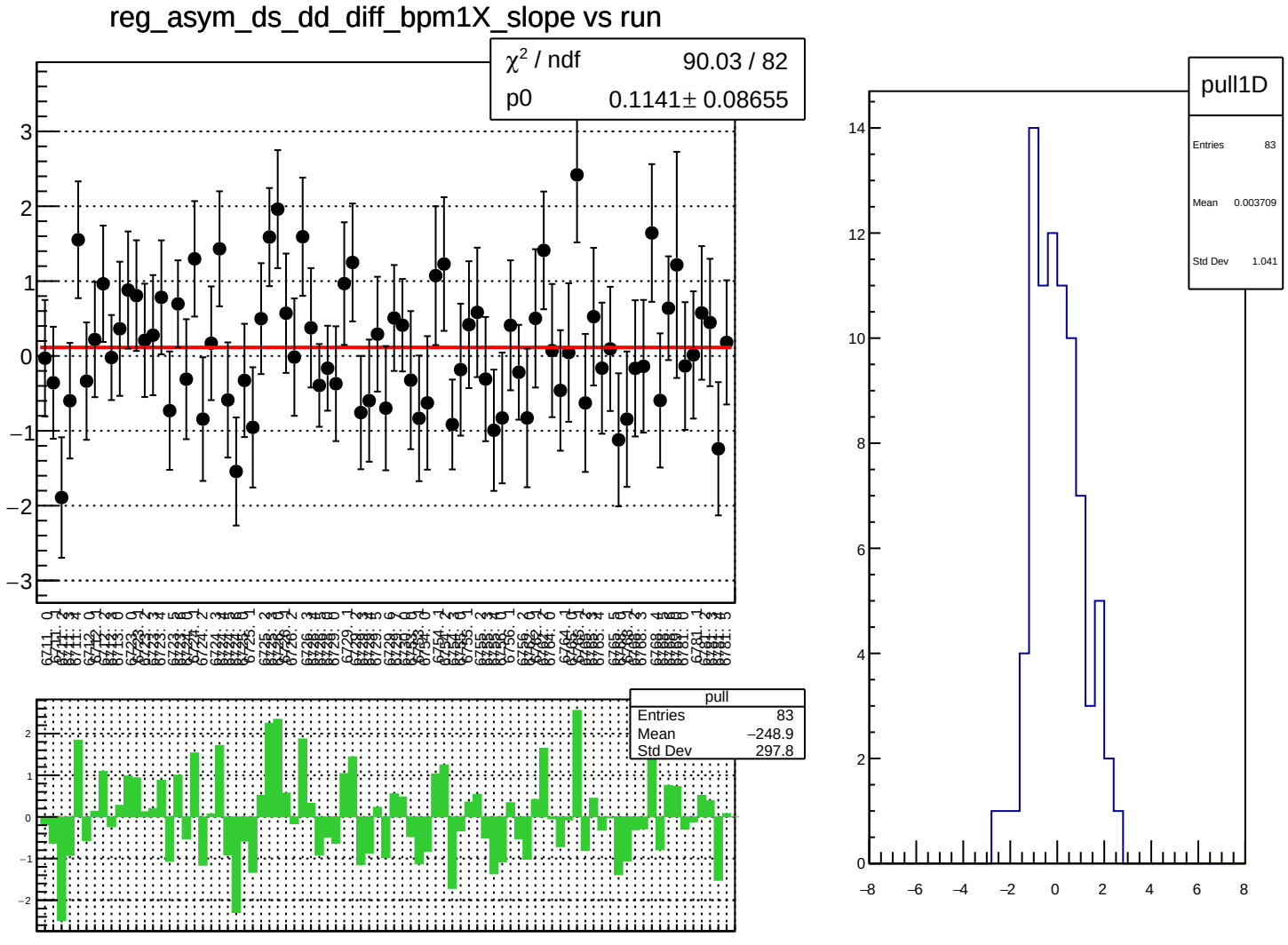

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 88.65 / 82
p0 0.2206 ± 0.08296
pull
Entries 83
Mean 3215
Std Dev 3185
pull1D
Entries 83
Mean 0.001296
Std Dev 1.033

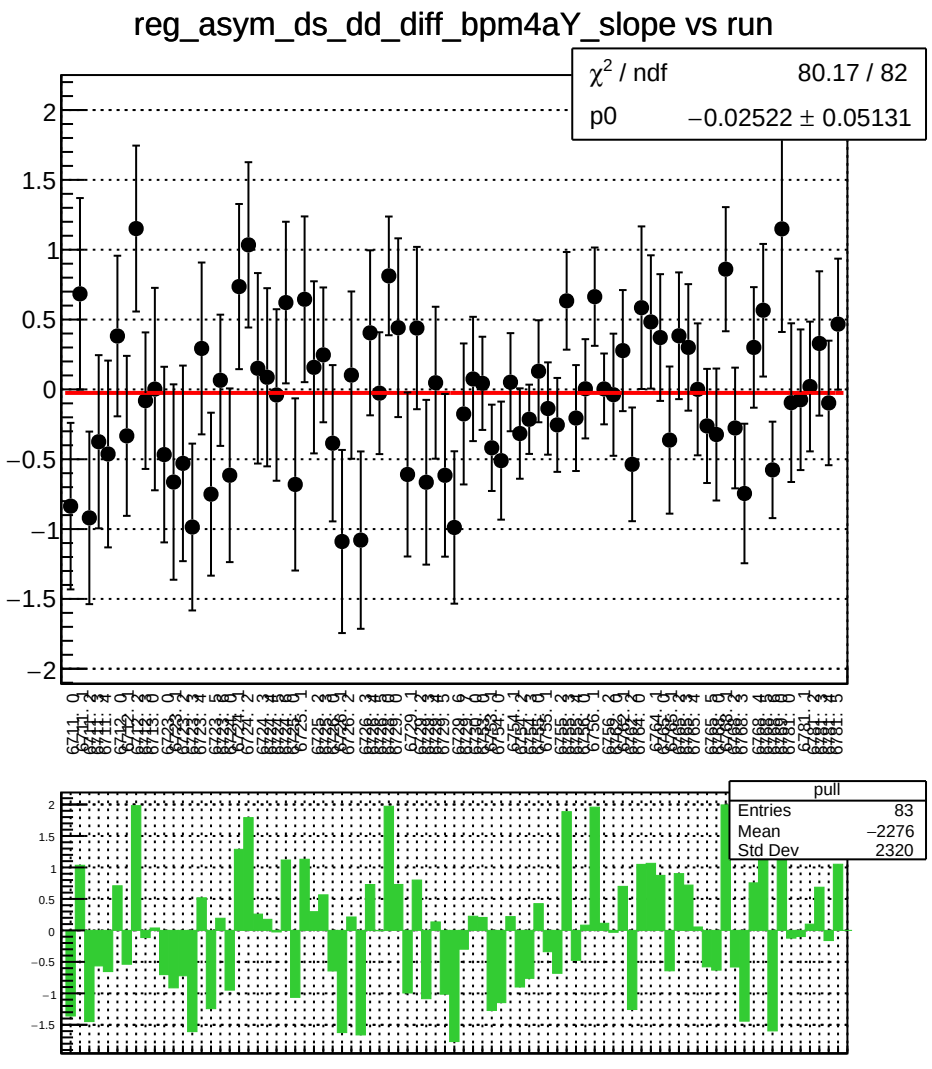

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 96.03 / 82
p0 0.008834 ± 0.06556
pull
Entries 83
Mean 36
Std Dev 23.49

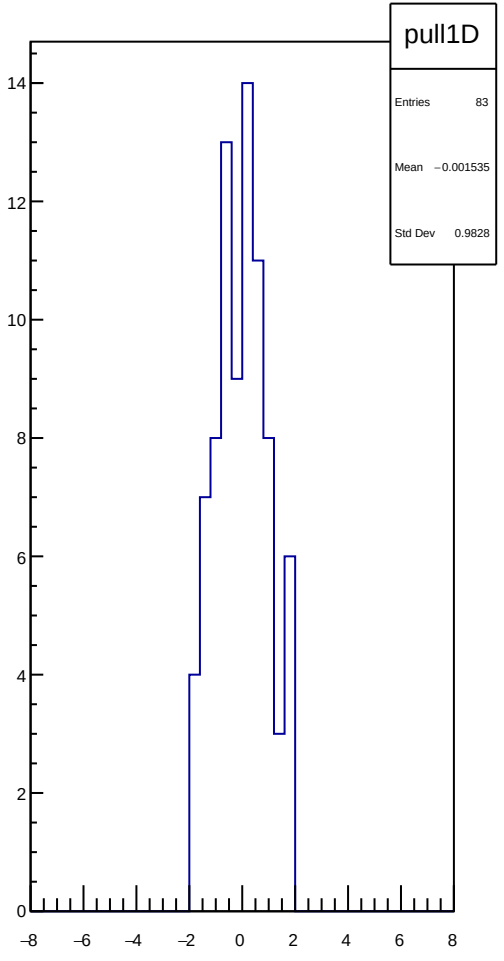

pull1D
Entries 83
Mean 0.03544
Std Dev 1.075

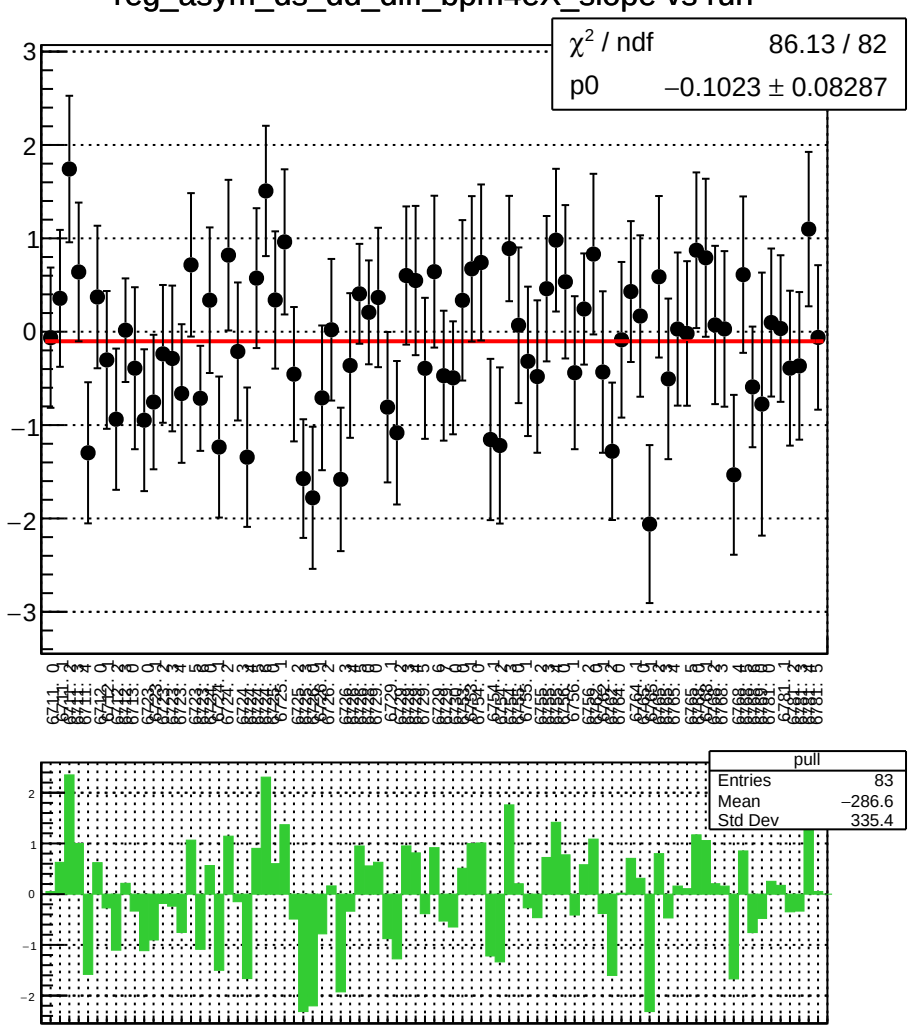

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 68.46 / 82
p0 0.001915 ± 0.003841
0.1
0.05
0
−0.05
−0.1
pull
Entries 83
Mean −134.8
Std Dev 177.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

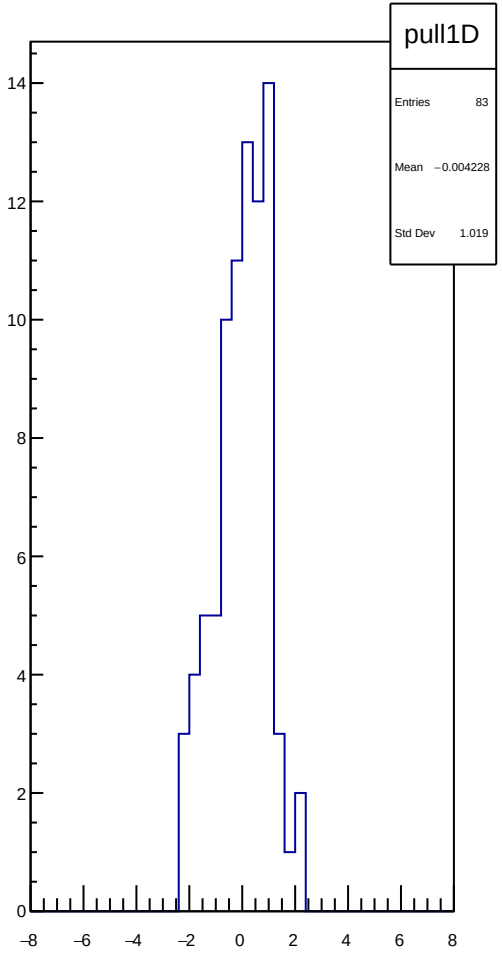

pull1D
Entries 83
Mean −0.006004
Std Dev 0.9081
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

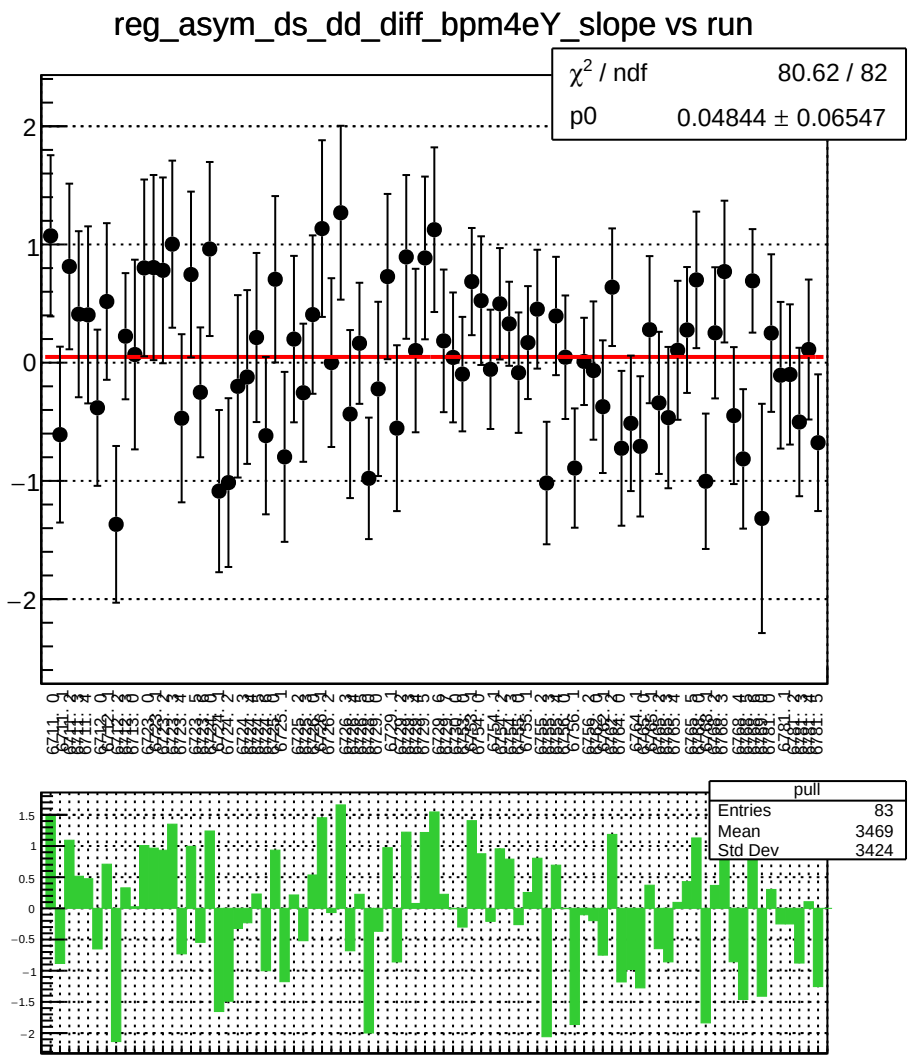

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 90.03 / 82
p0 0.1141± 0.08655
pull
Entries 83
Mean −248.9
Std Dev 297.8
pull1D
Entries 83
Mean 0.003709
Std Dev 1.041

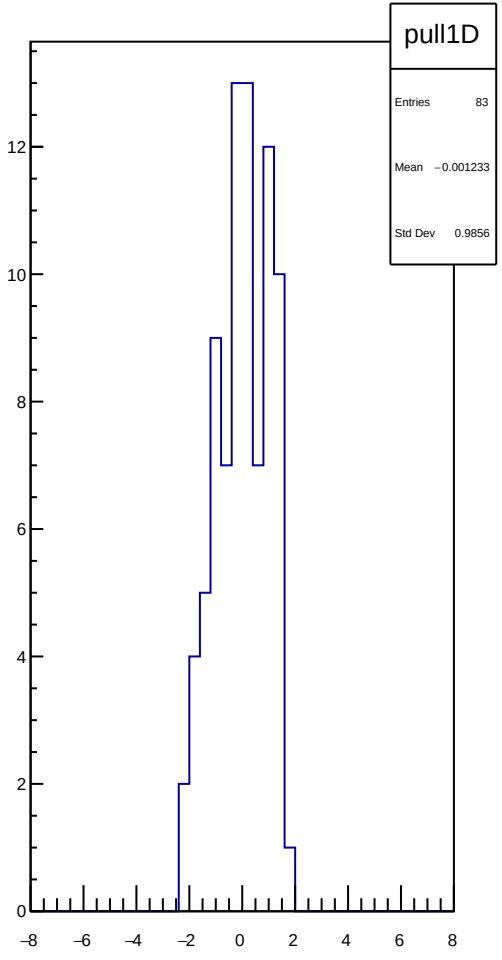

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.17 / 82
p0 −0.02522 ± 0.05131
pull
Entries 83
Mean −2276
Std Dev 2320

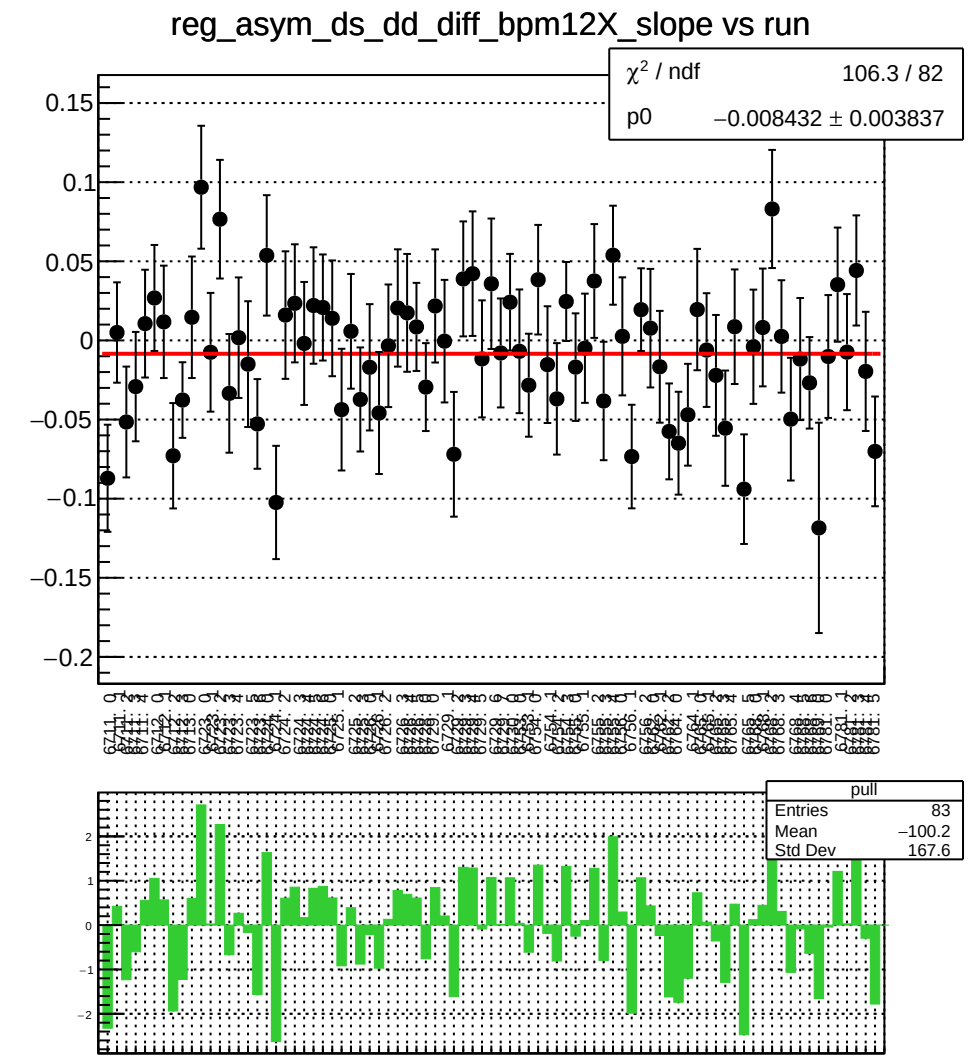

pull1D
Entries 83
Mean −0.001535
Std Dev 0.9828

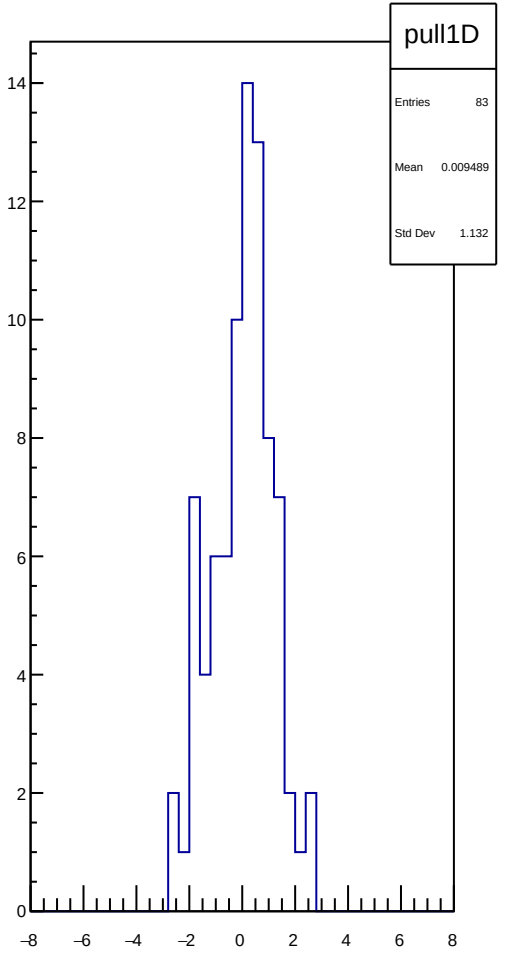

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 86.13 / 82
p0 −0.1023 ± 0.08287
pull
Entries 83
Mean −286.6
Std Dev 335.4

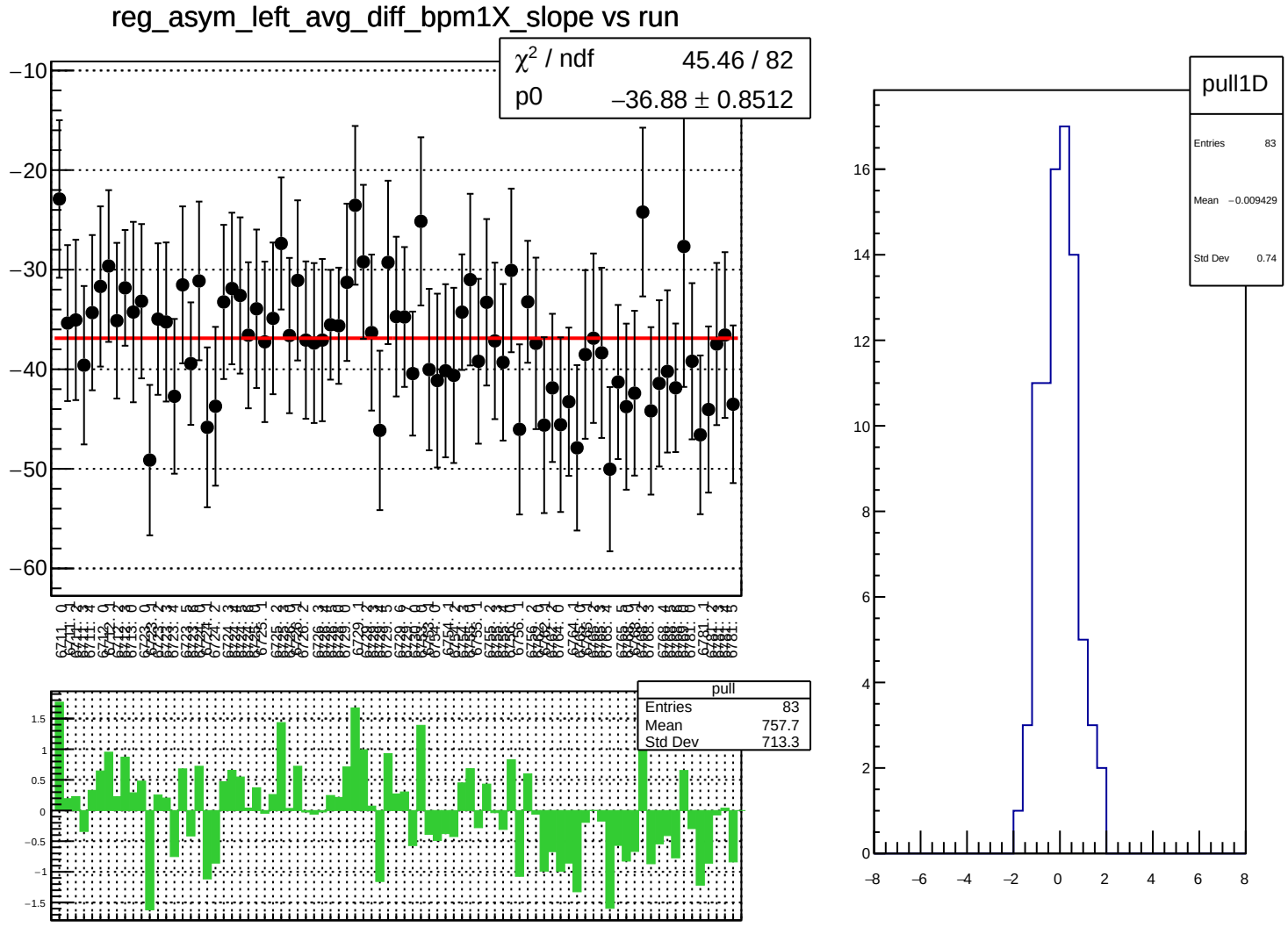

pull1D
Entries 83
Mean −0.004228
Std Dev 1.019

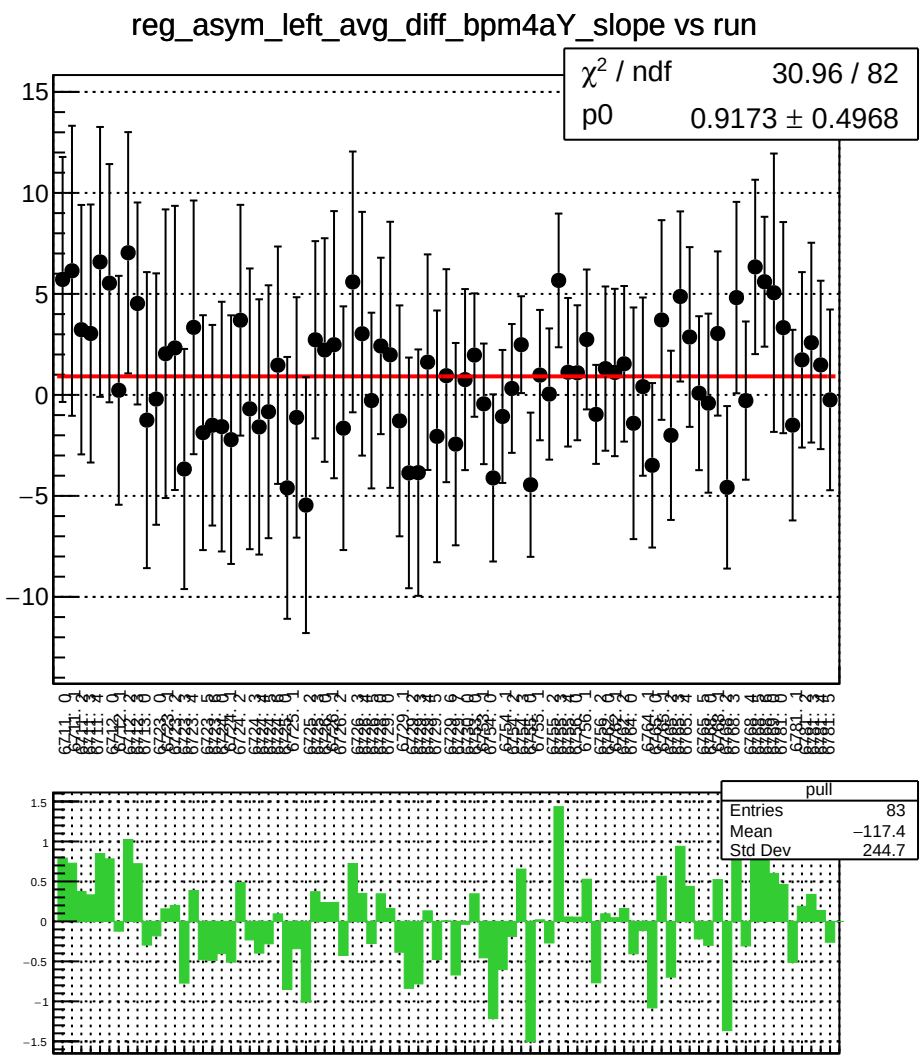

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.62 / 82
p0 0.04844 ± 0.06547
pull
Entries 83
Mean 3469
Std Dev 3424

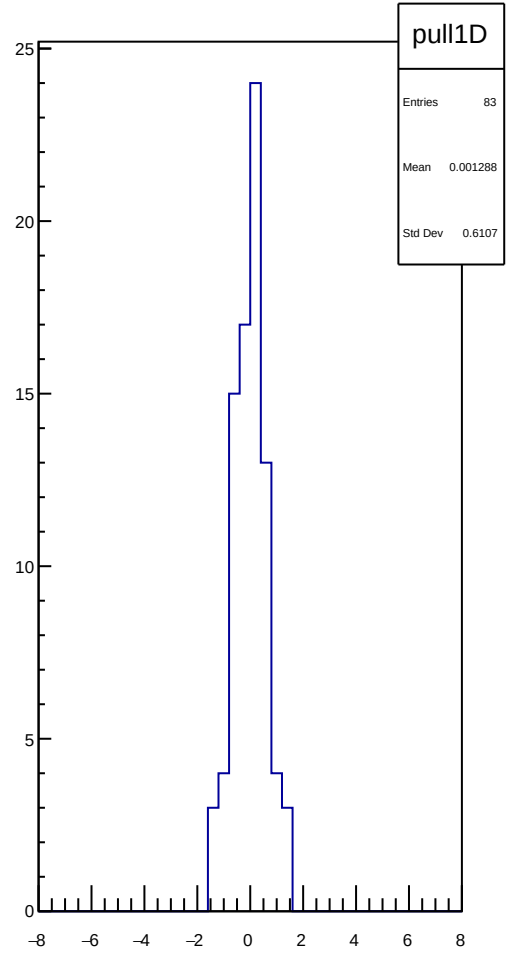

pull1D
Entries 83
Mean −0.001233
Std Dev 0.9856

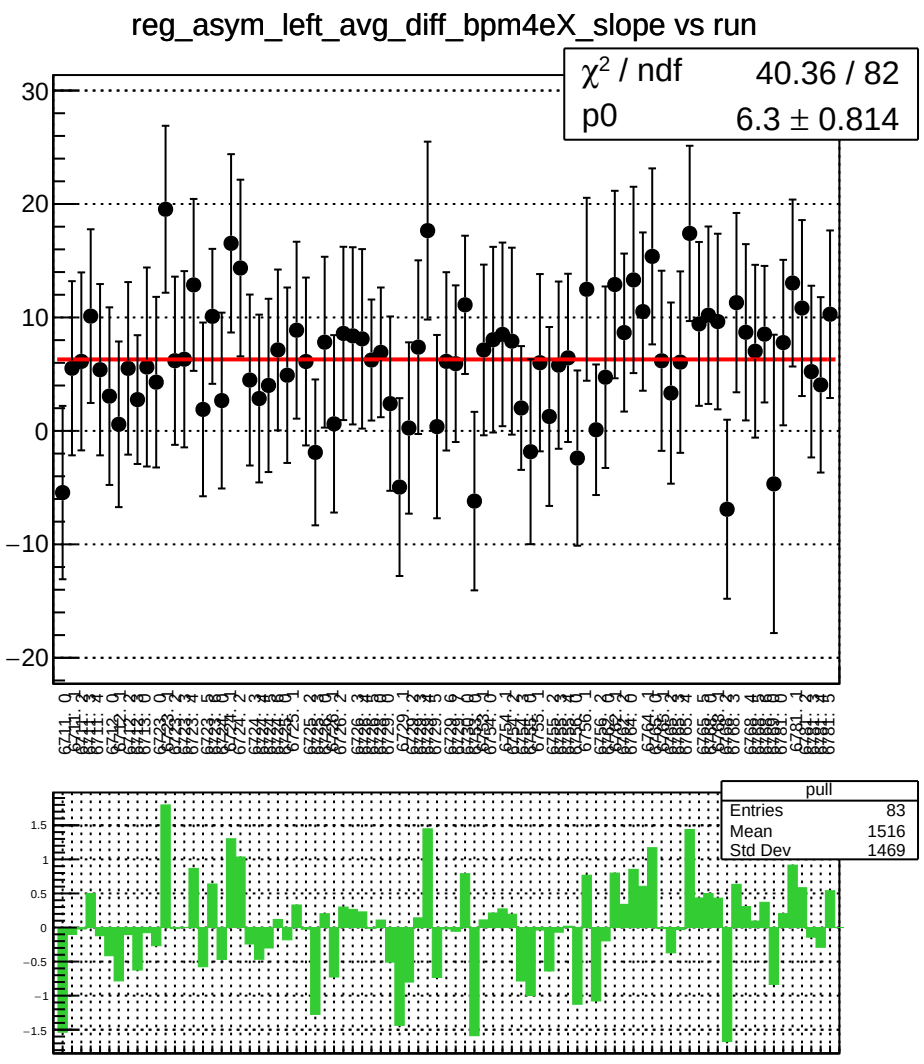

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 106.3 / 82
p0 −0.008432 ± 0.003837
pull
Entries 83
Mean −100.2
Std Dev 167.6

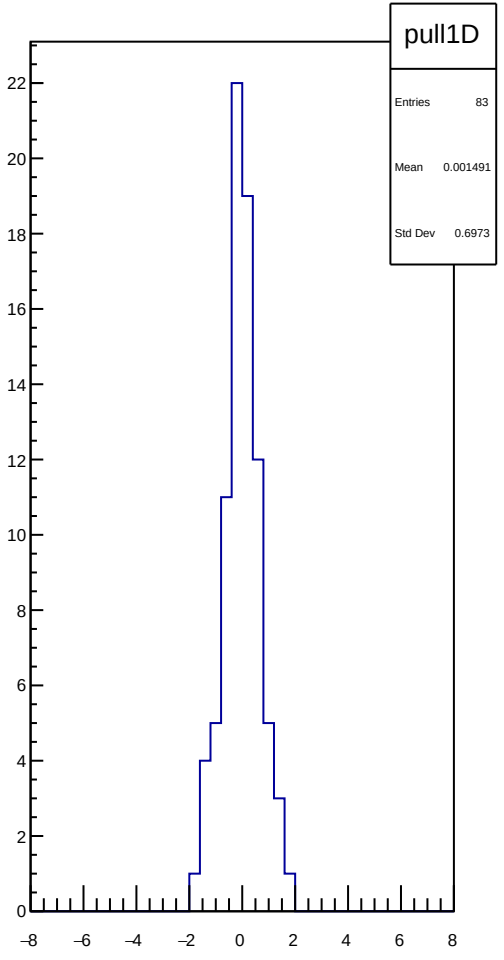

pull1D
Entries 83
Mean 0.009489
Std Dev 1.132

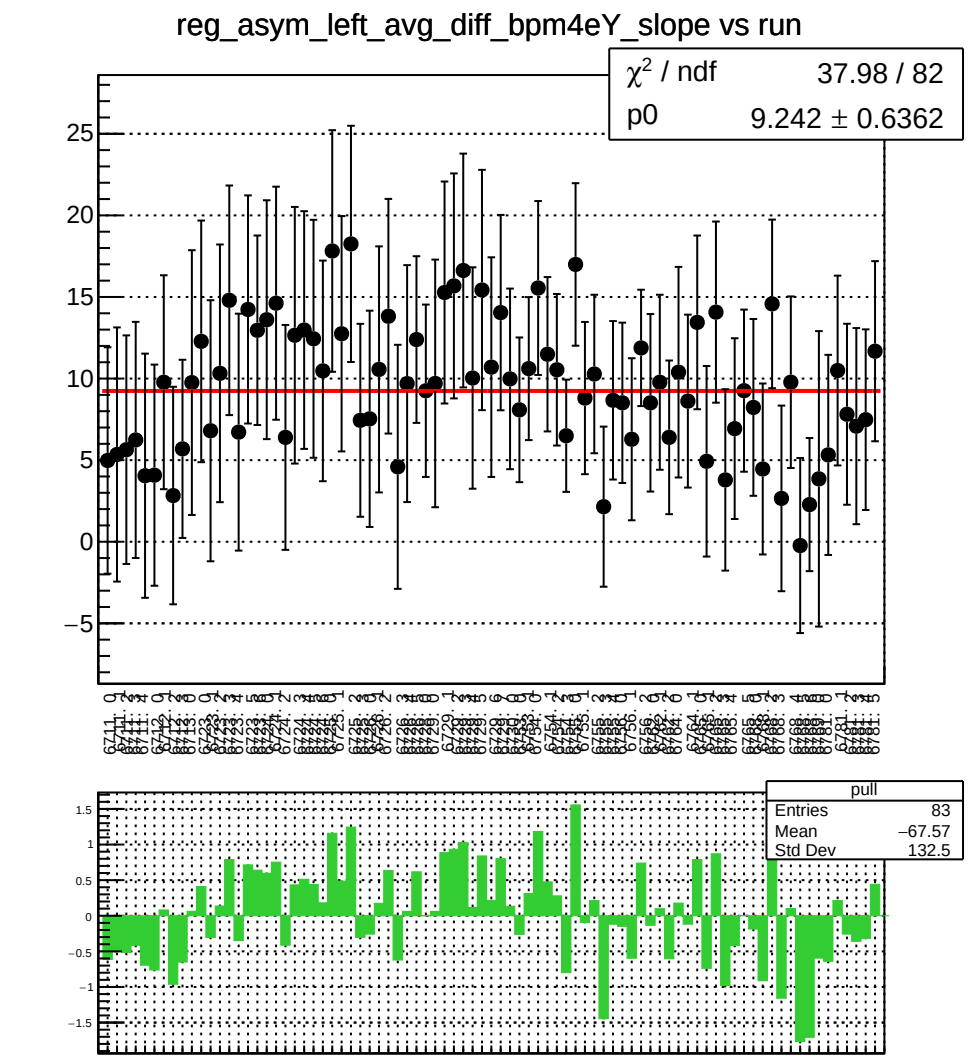

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 45.46 / 82
p0 −36.88 ± 0.8512
pull
Entries 83
Mean 757.7
Std Dev 713.3
pull1D
Entries 83
Mean −0.009429
Std Dev 0.74

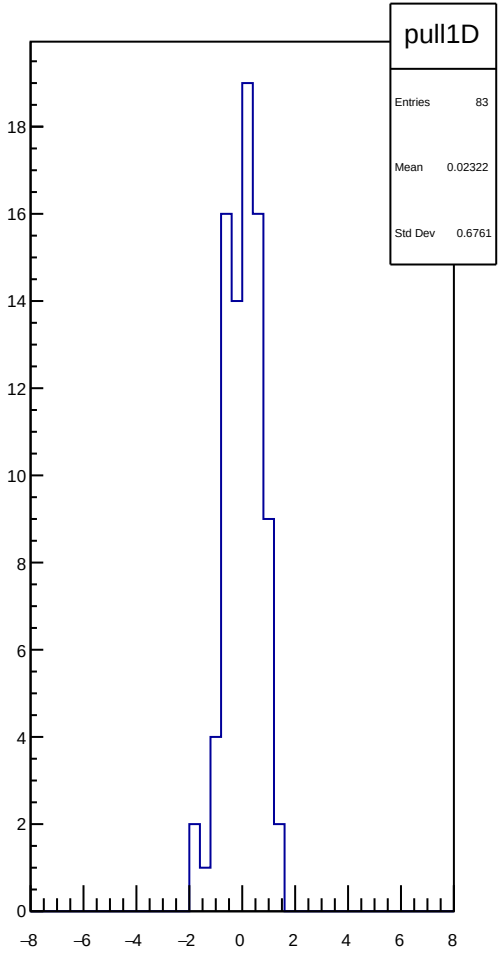

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.96 / 82
p0 0.9173 ± 0.4968
pull
Entries 83
Mean −117.4
Std Dev 244.7

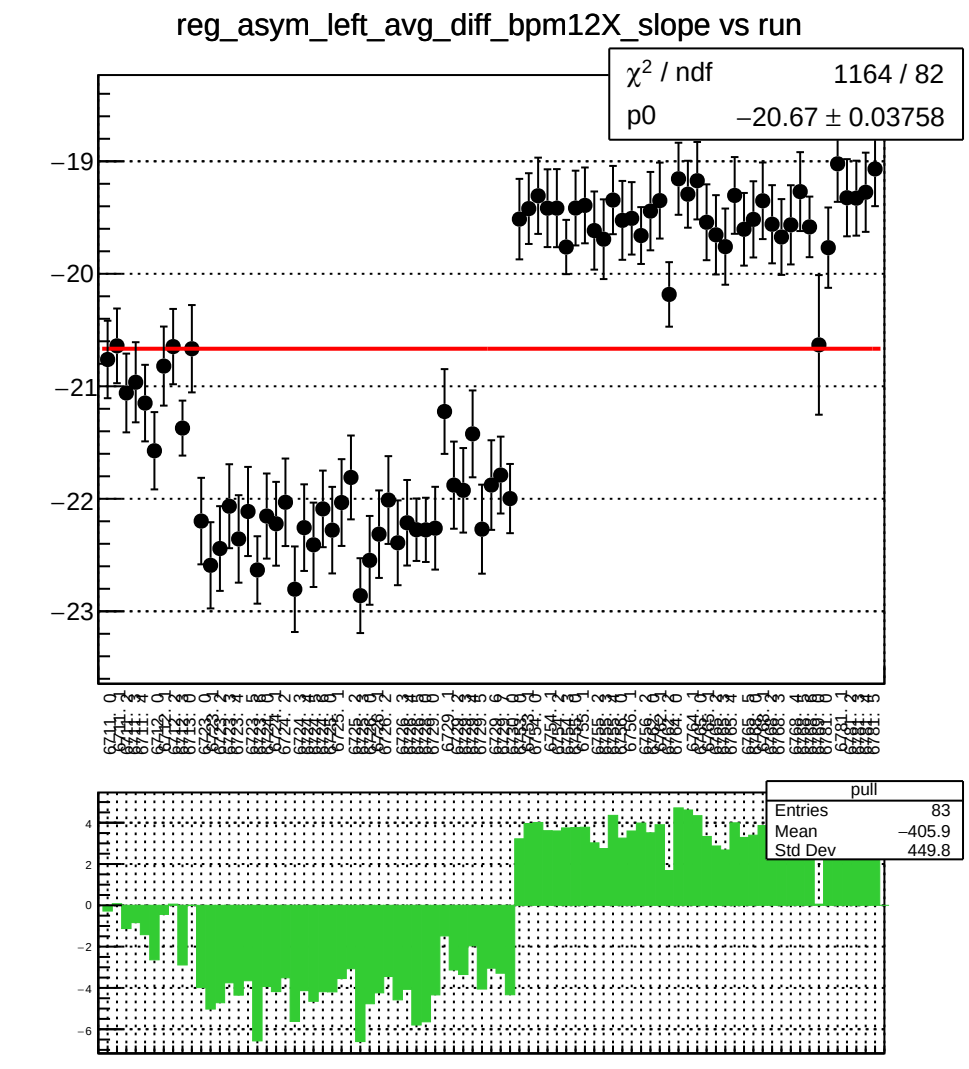

pull1D
Entries 83
Mean 0.001288
Std Dev 0.6107

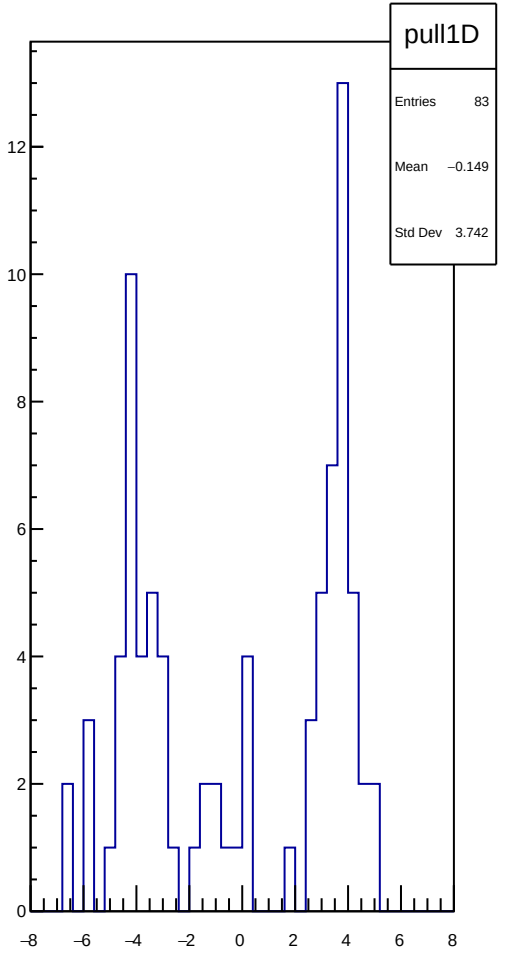

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.36 / 82
p0 6.3 ± 0.814
pull
Entries 83
Mean 1516
Std Dev 1469

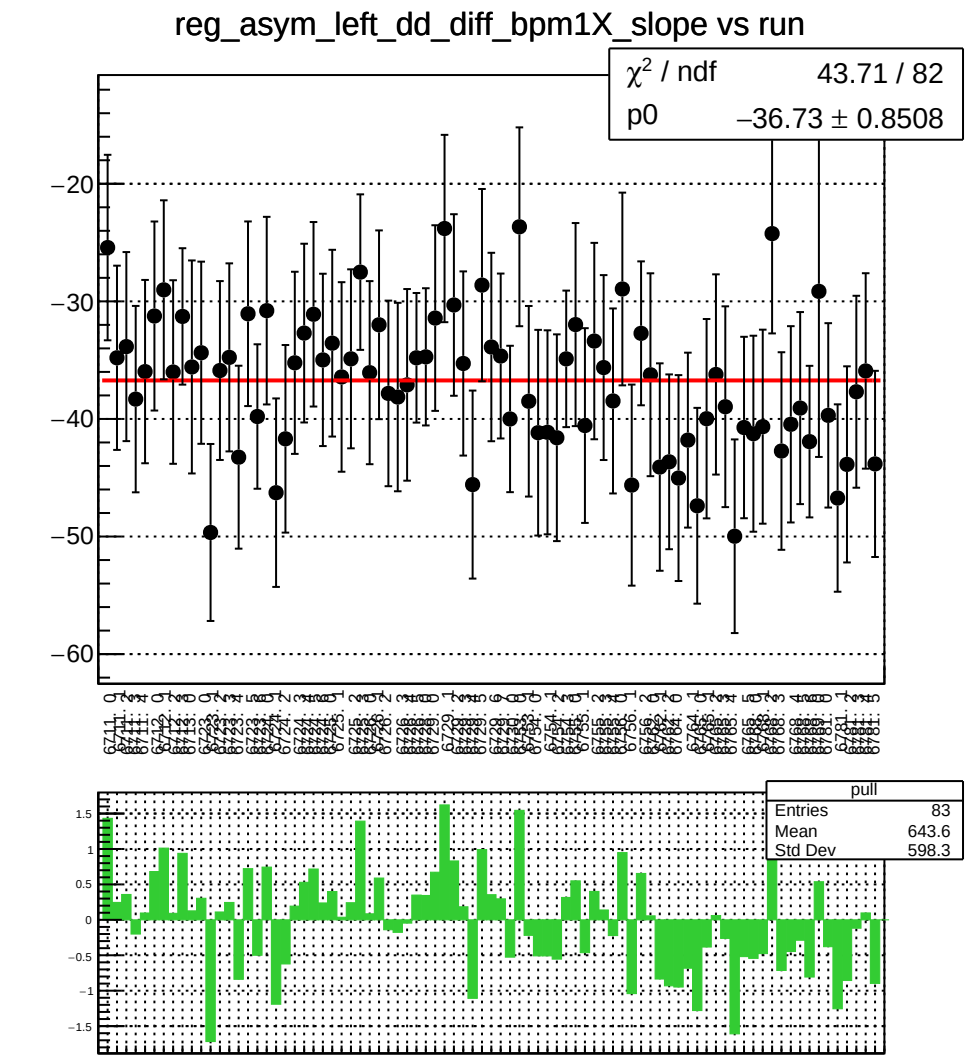

pull1D
Entries 83
Mean 0.001491
Std Dev 0.6973

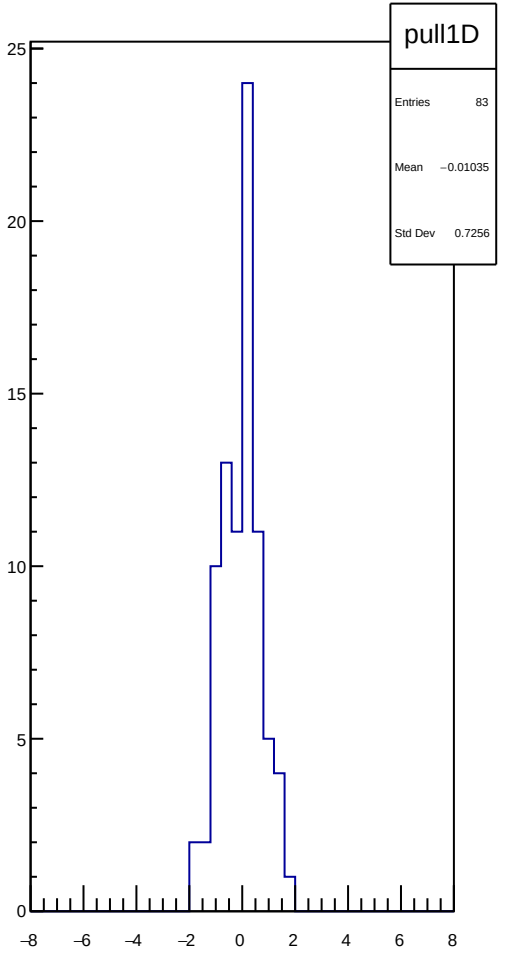

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.98 / 82
p0 9.242 ± 0.6362
pull
Entries 83
Mean −67.57
Std Dev 132.5

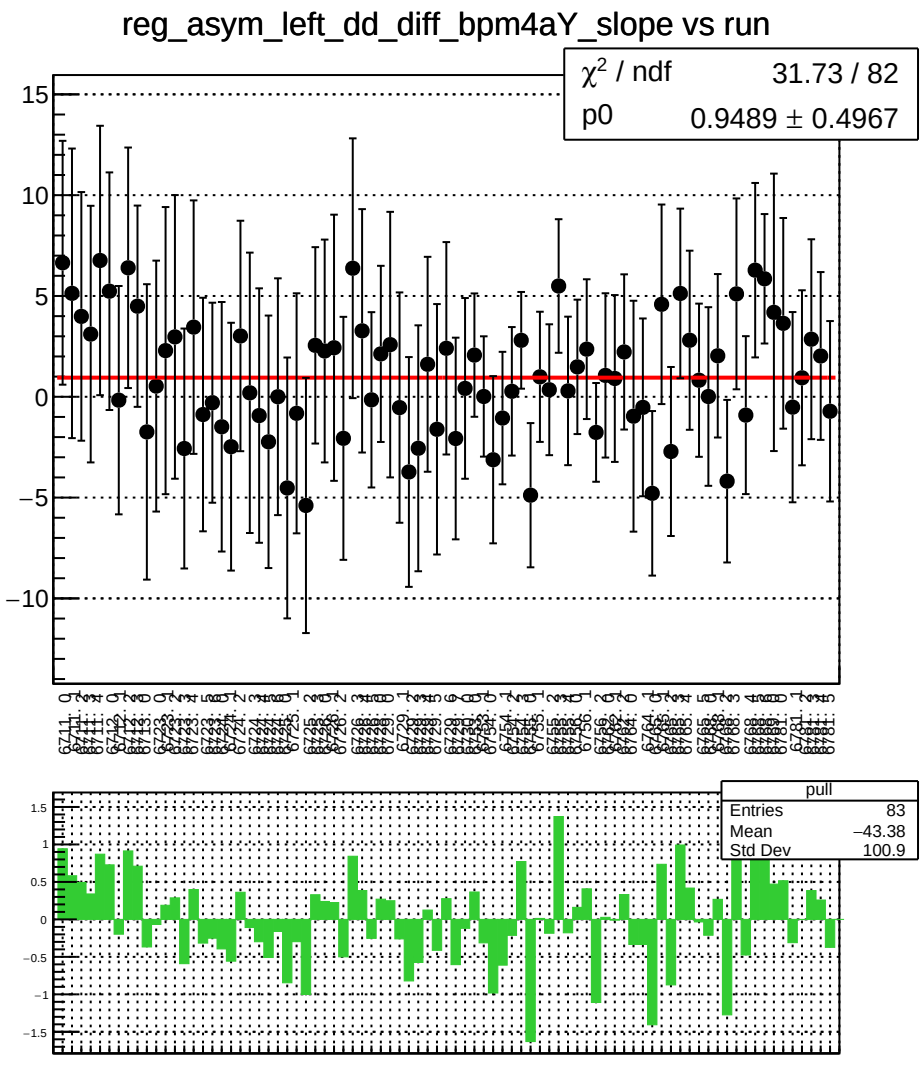

pull1D
Entries 83
Mean 0.02322
Std Dev 0.6761

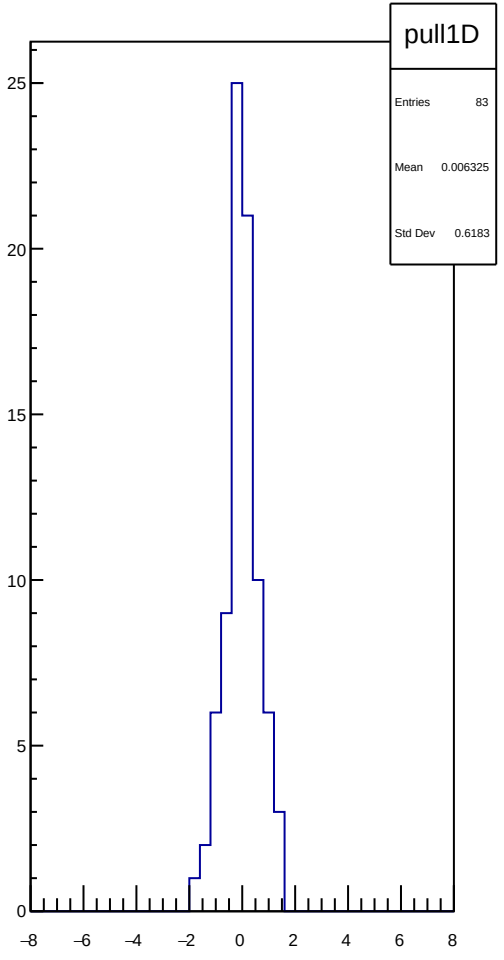

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 1164 / 82
p0 −20.67 ± 0.03758
−19
−20
−21
−22
−23
pull
Entries 83
Mean −405.9
Std Dev 449.8
4
2
0
−2
−4
−6

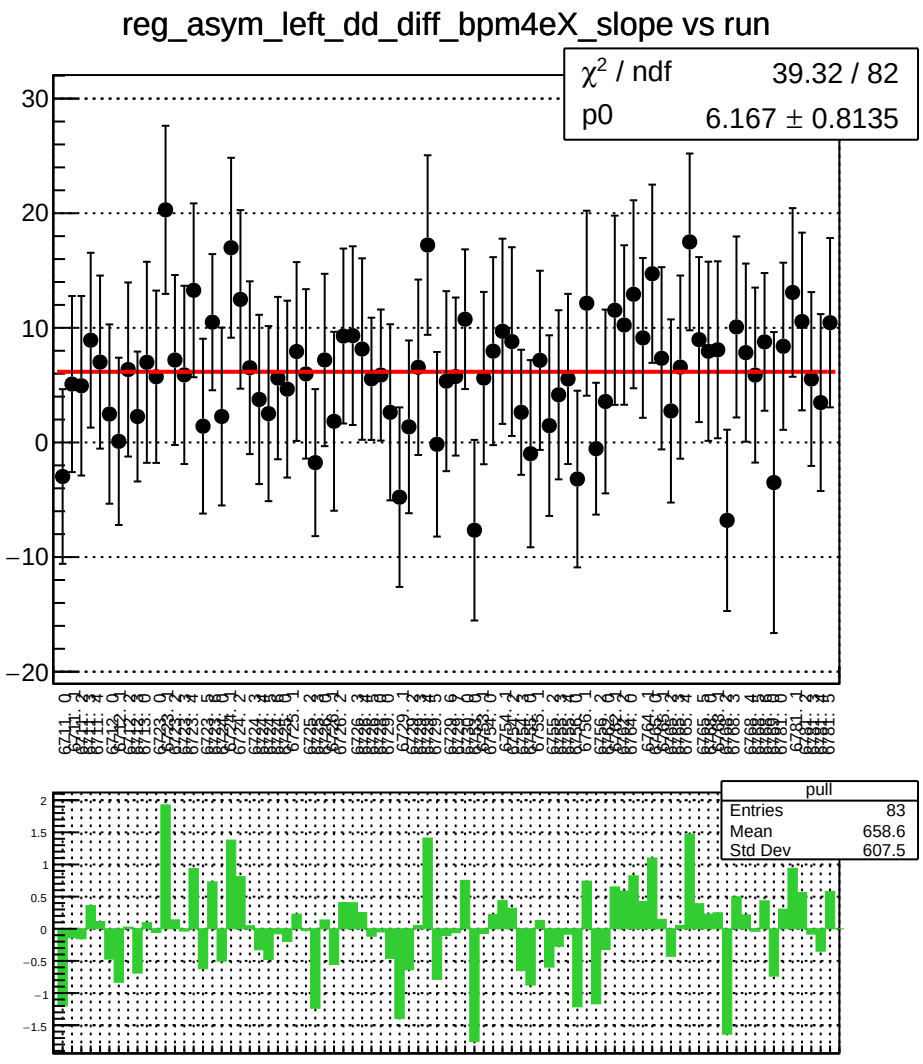

pull1D
Entries 83
Mean −0.149
Std Dev 3.742
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

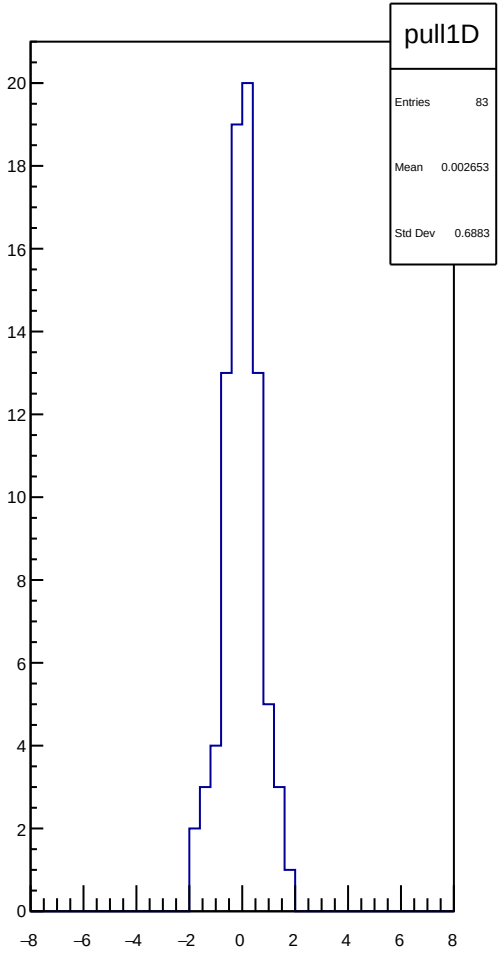

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 43.71 / 82
p0 −36.73 ± 0.8508
pull
Entries 83
Mean 643.6
Std Dev 598.3

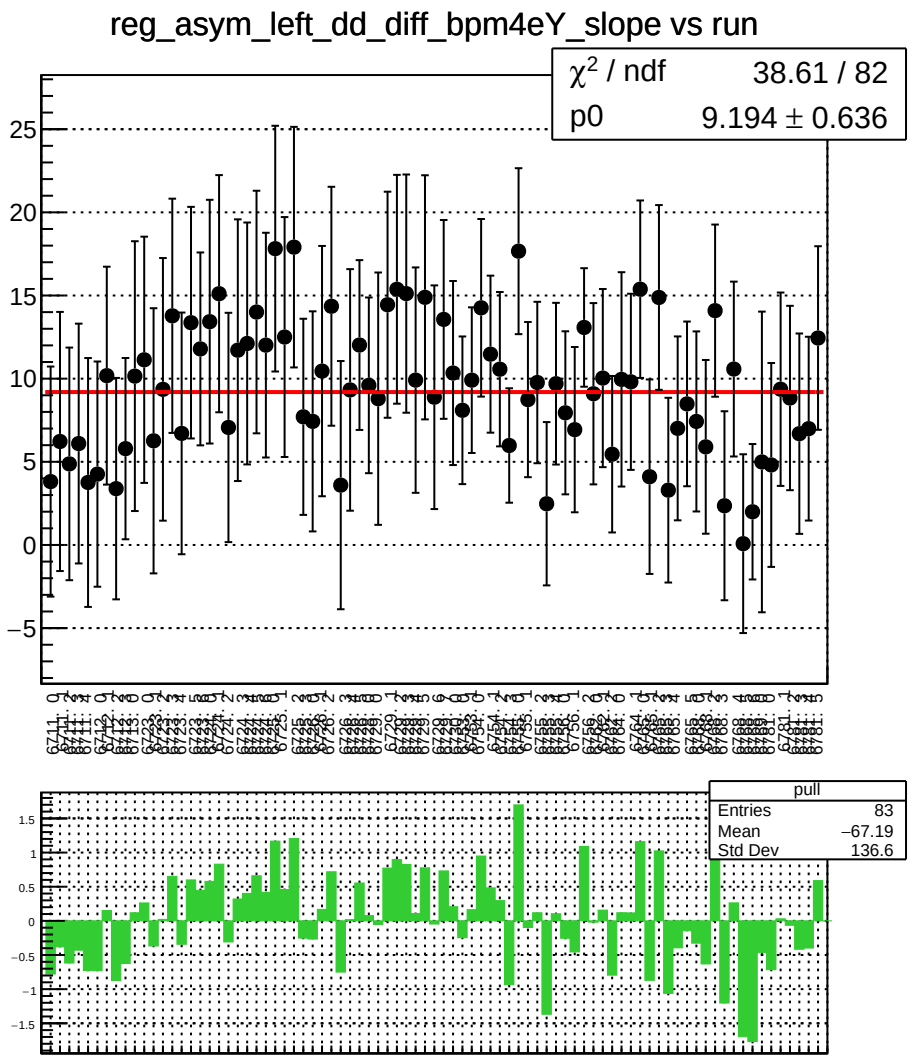

pull1D
Entries 83
Mean −0.01035
Std Dev 0.7256

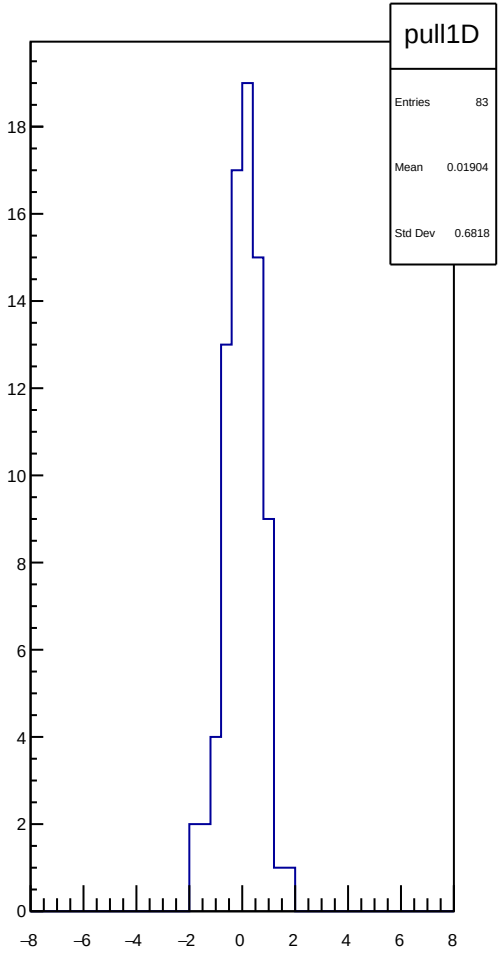

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.73 / 82
p0 0.9489 ± 0.4967
pull
Entries 83
Mean −43.38
Std Dev 100.9

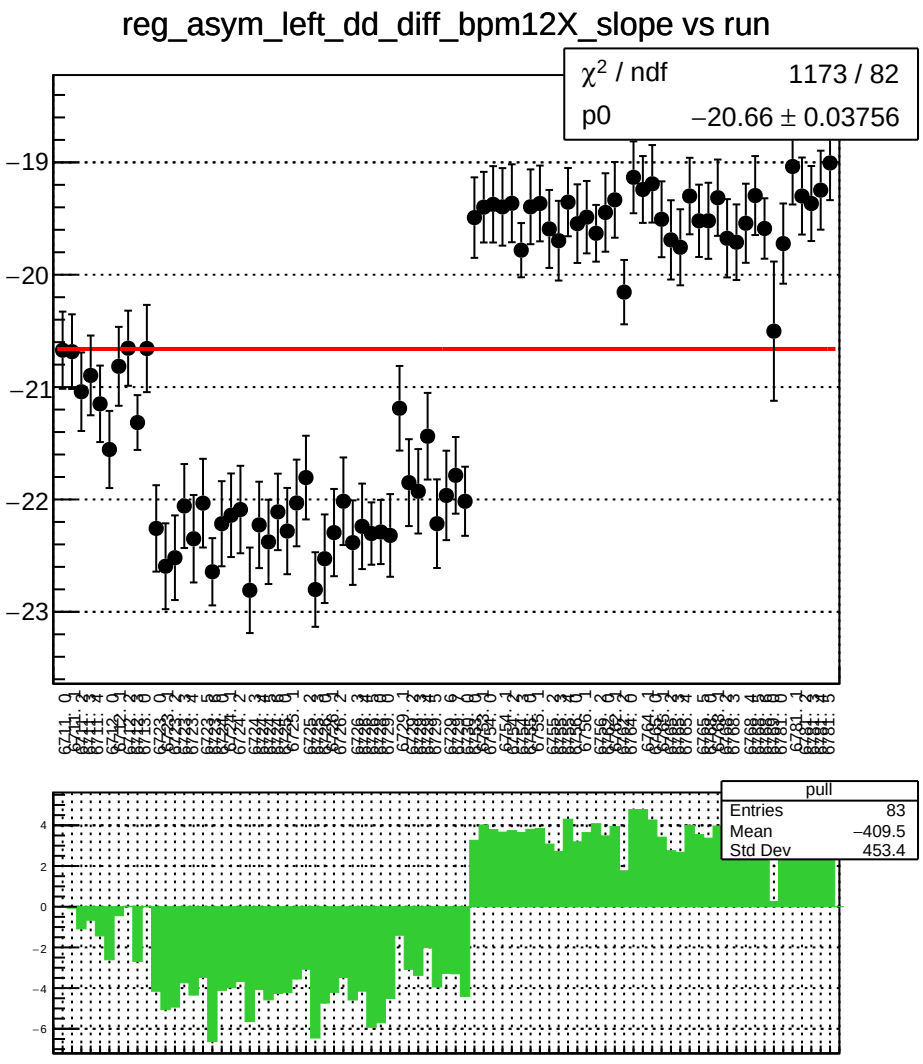

pull1D
Entries 83
Mean 0.006325
Std Dev 0.6183

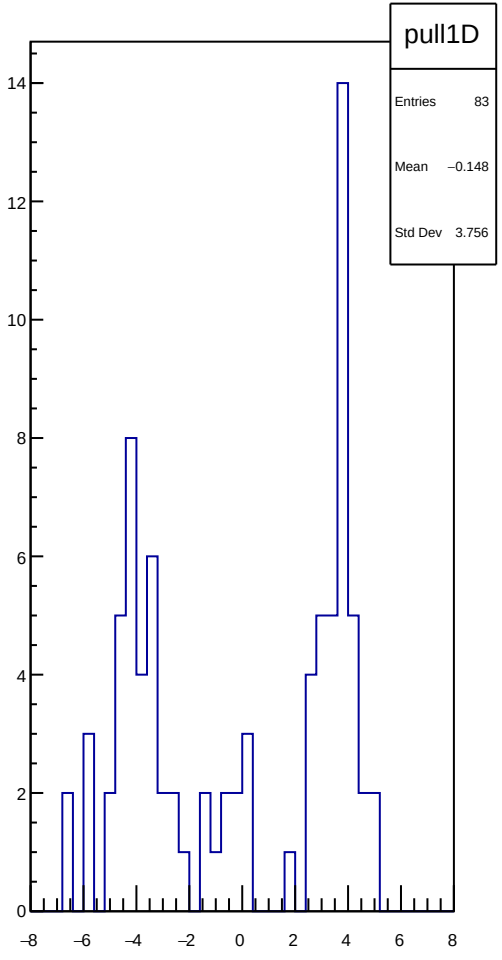

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.32 / 82
p0 6.167 ± 0.8135
pull
Entries 83
Mean 658.6
Std Dev 607.5

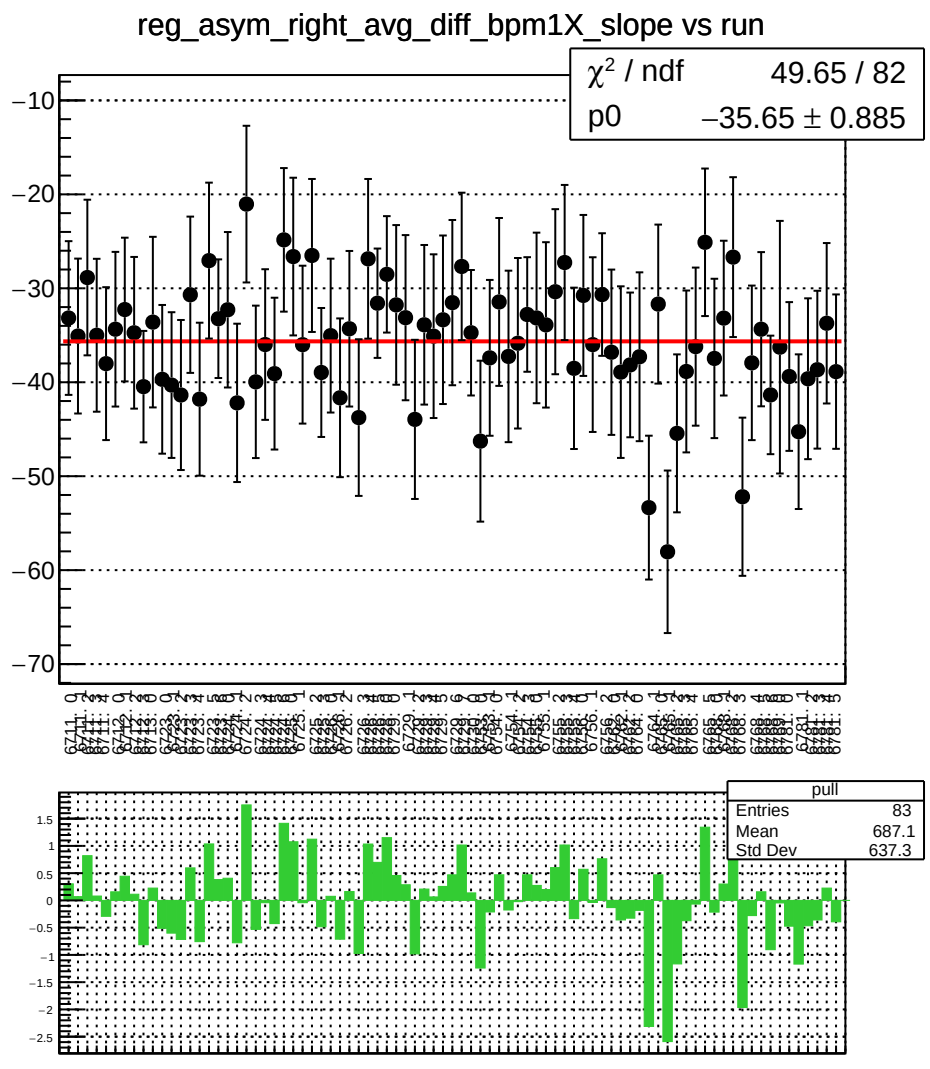

pull1D
Entries 83
Mean 0.002653
Std Dev 0.6883

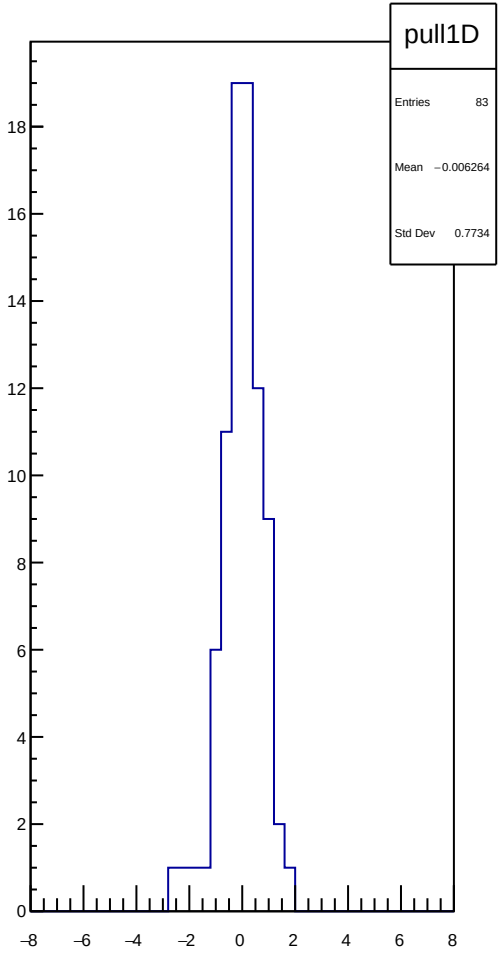

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 38.61 / 82
p0 9.194 ± 0.636
pull
Entries 83
Mean −67.19
Std Dev 136.6

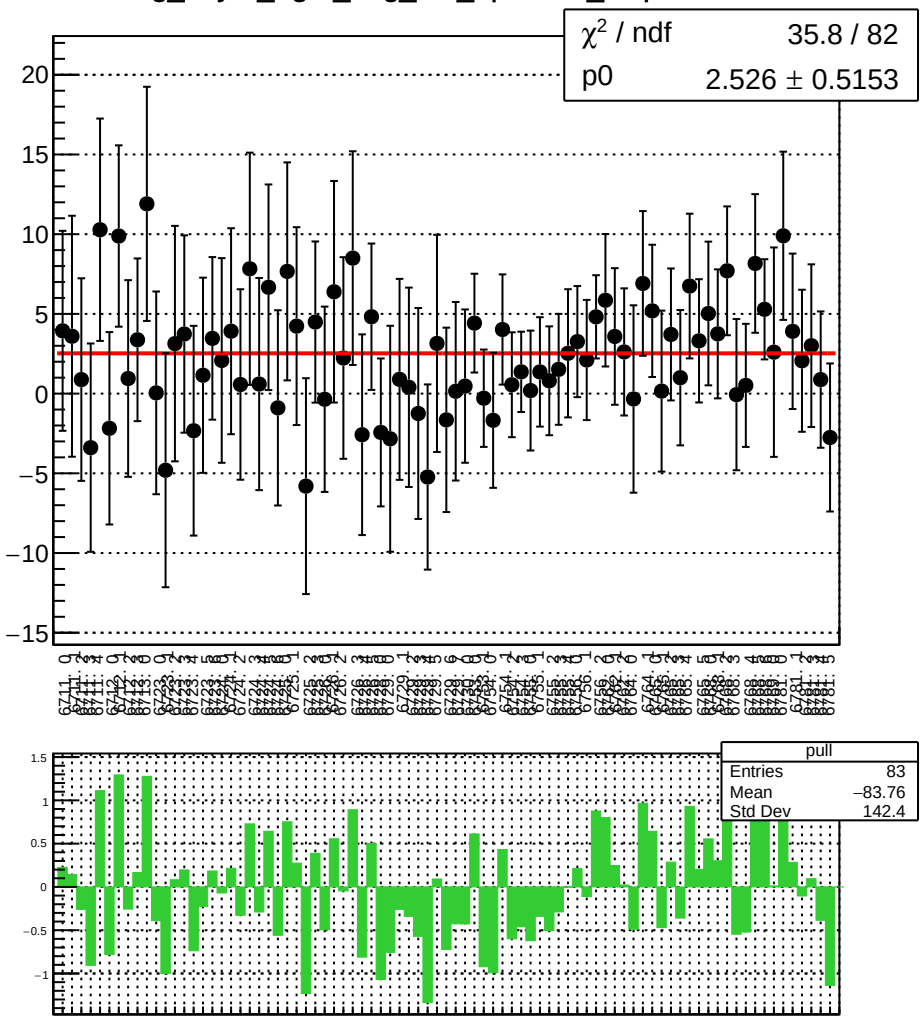

pull1D
Entries 83
Mean 0.01904
Std Dev 0.6818

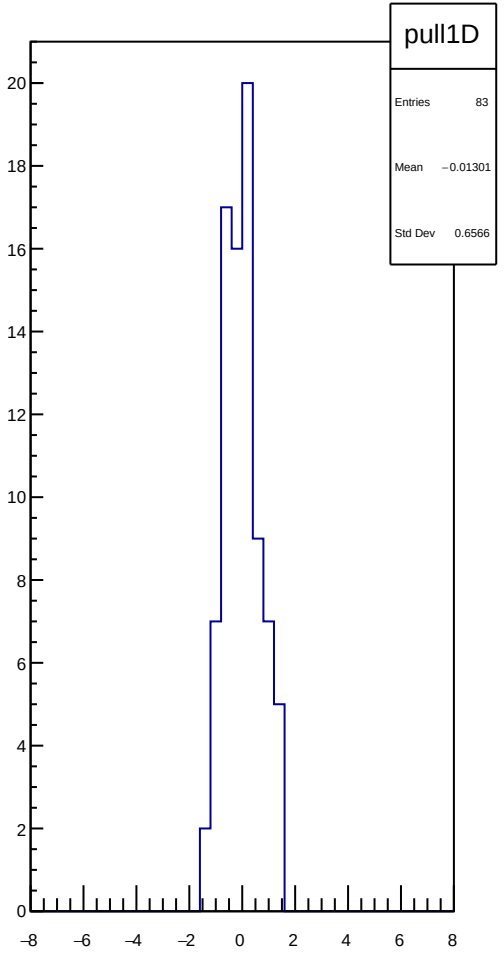

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 1173 / 82
p0 −20.66 ± 0.03756
pull
Entries 83
Mean −409.5
Std Dev 453.4

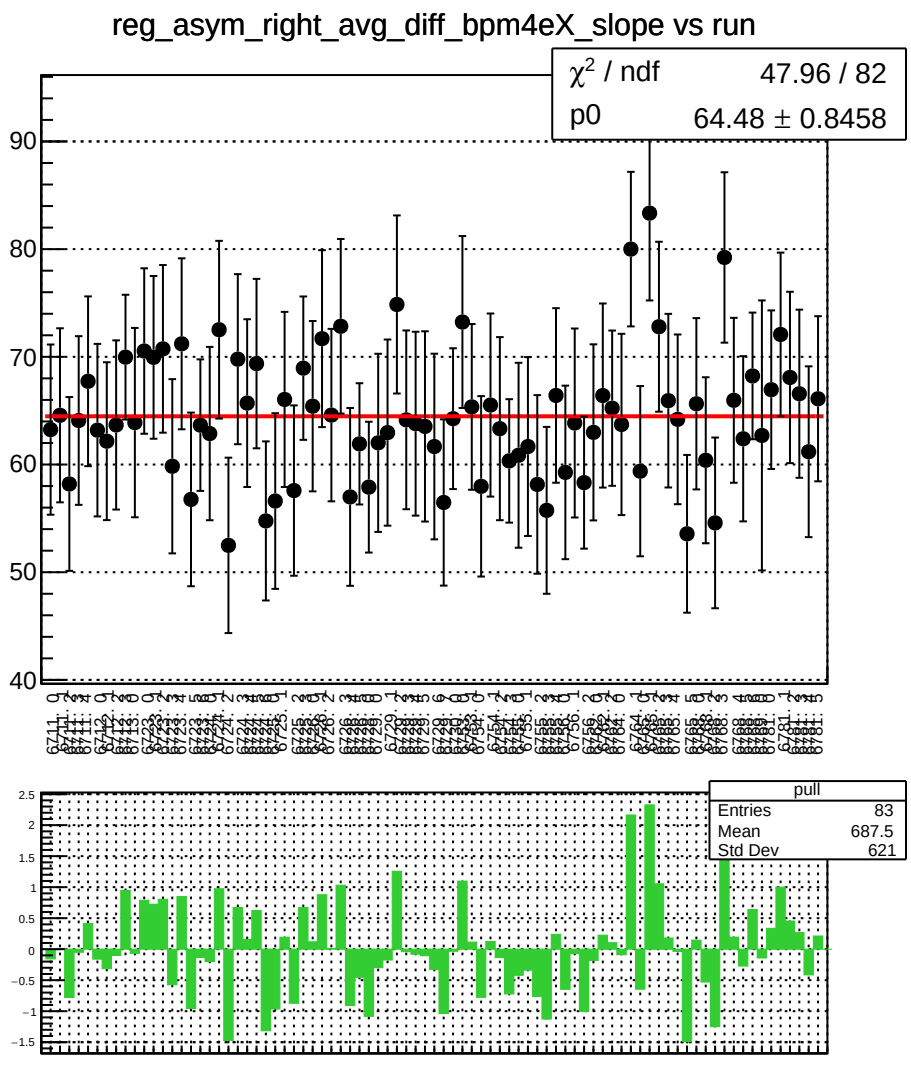

pull1D
Entries 83
Mean −0.148
Std Dev 3.756

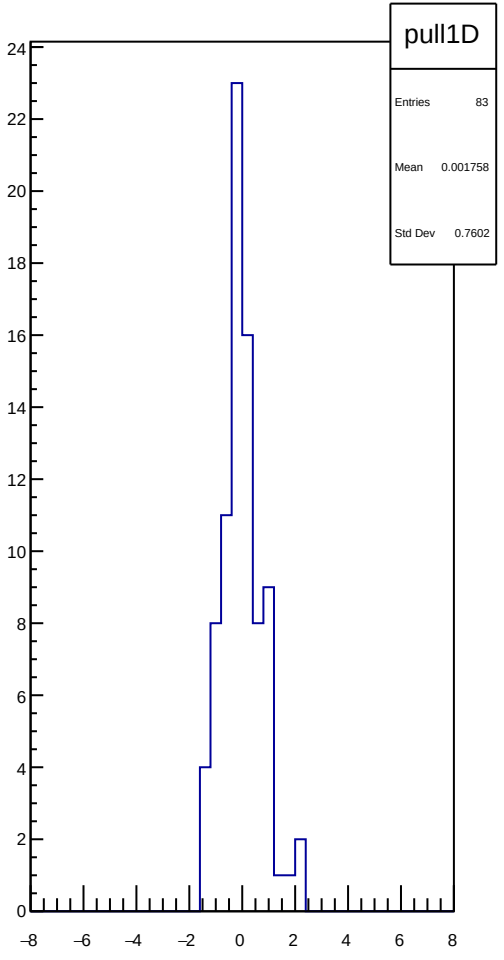

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 49.65 / 82
p0 −35.65 ± 0.885
pull
Entries 83
Mean 687.1
Std Dev 637.3

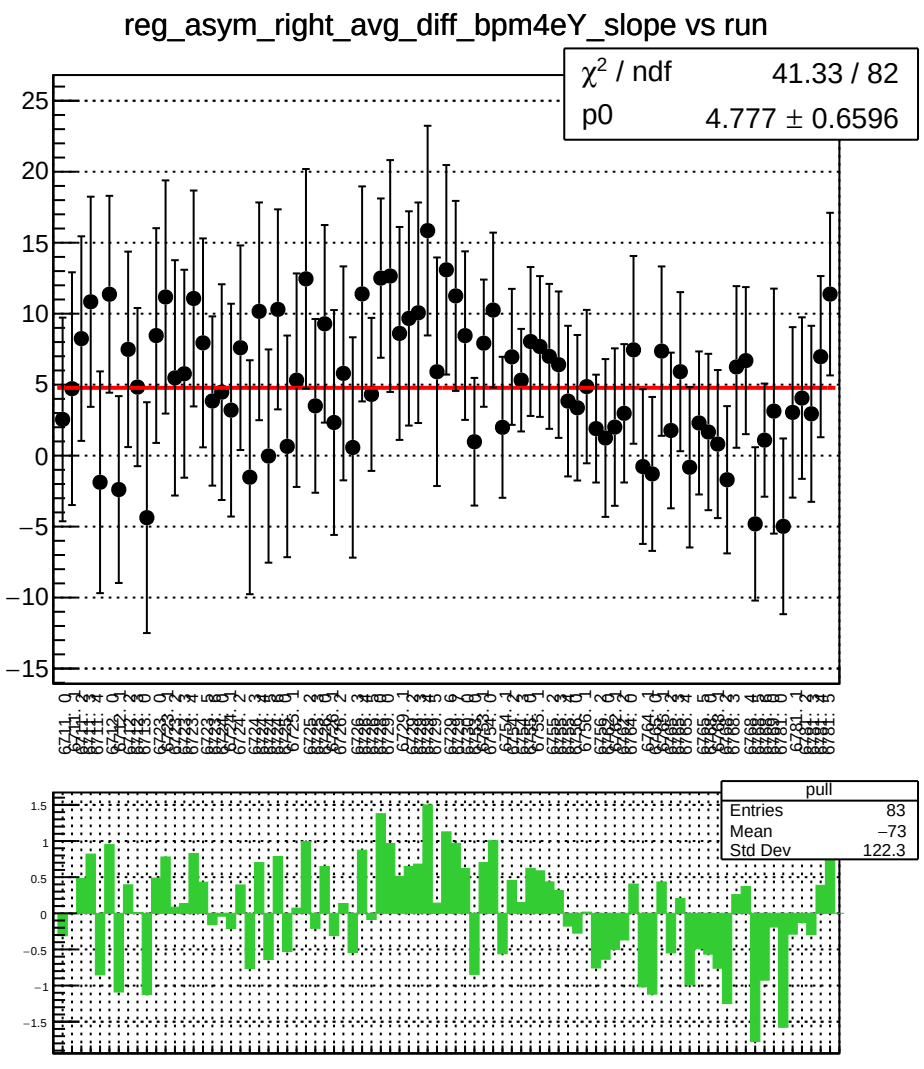

pull1D
Entries 83
Mean −0.006264
Std Dev 0.7734

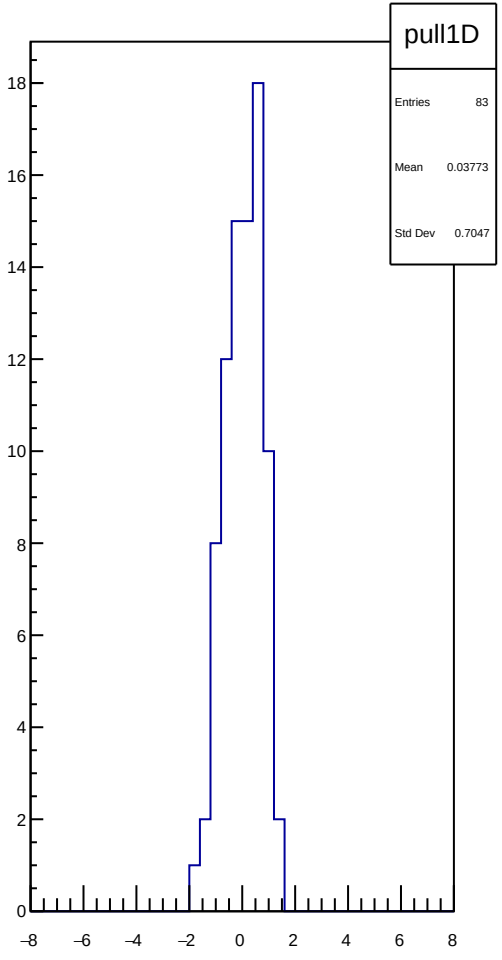

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.8 / 82
p0 2.526 ± 0.5153
pull
Entries 83
Mean −83.76
Std Dev 142.4

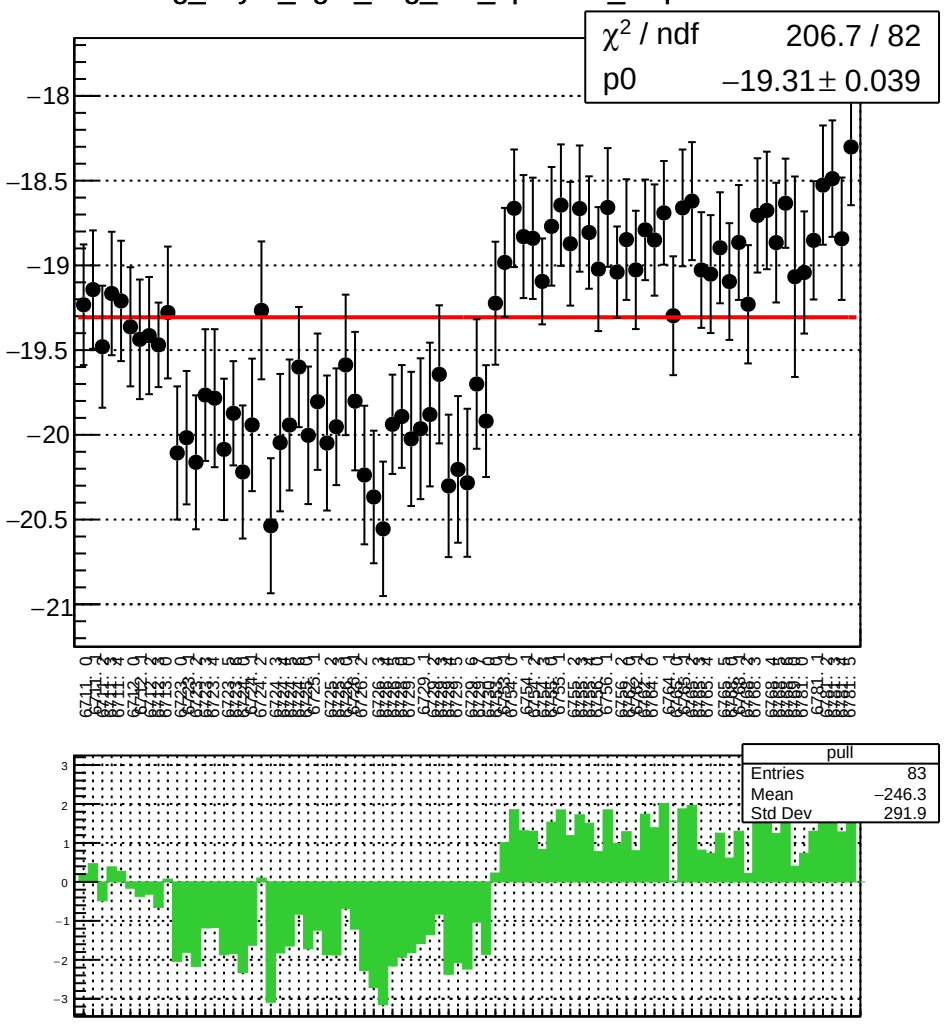

pull1D
Entries 83
Mean −0.01301
Std Dev 0.6566

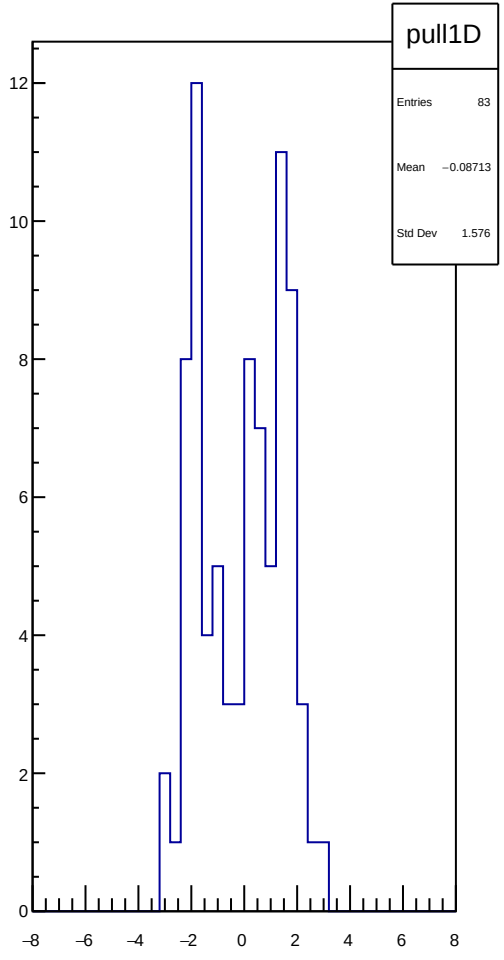

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.96 / 82
p0 64.48 ± 0.8458
pull
Entries 83
Mean 687.5
Std Dev 621

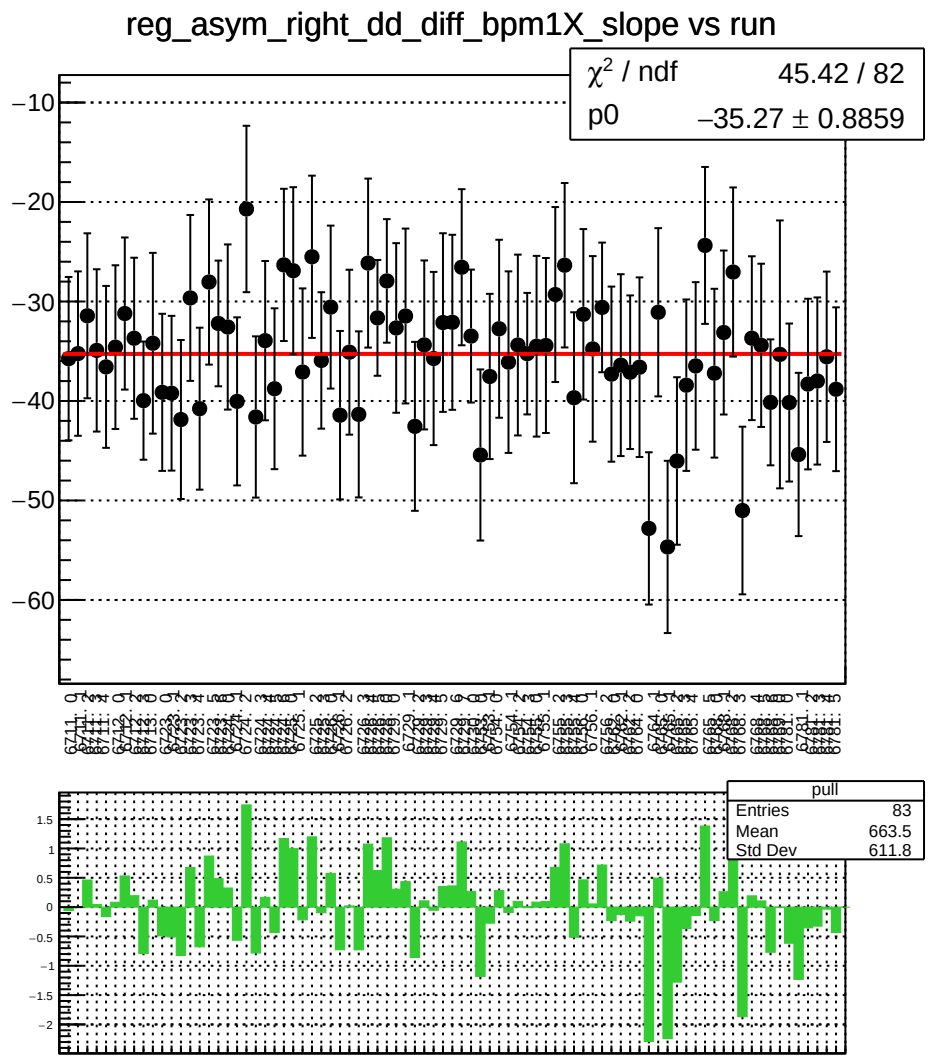

pull1D
Entries 83
Mean 0.001758
Std Dev 0.7602

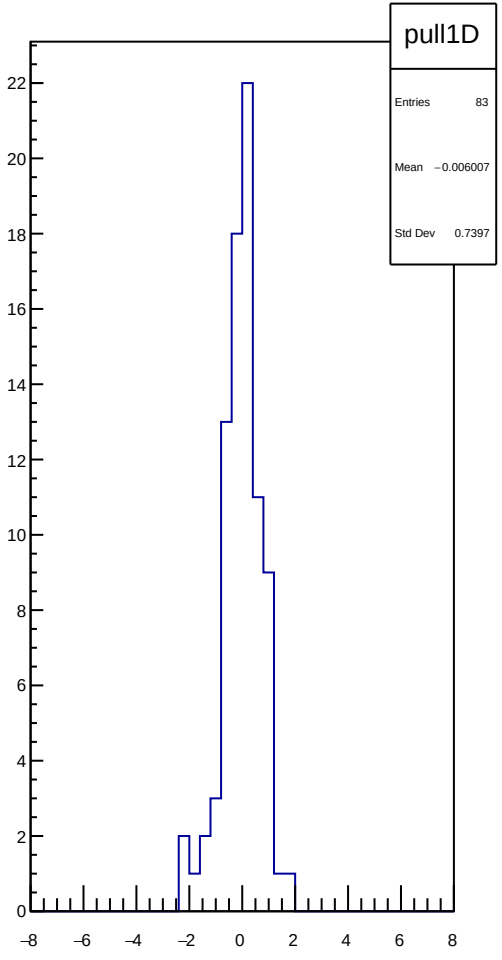

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.33 / 82
p0 4.777 ± 0.6596
pull
Entries 83
Mean −73
Std Dev 122.3

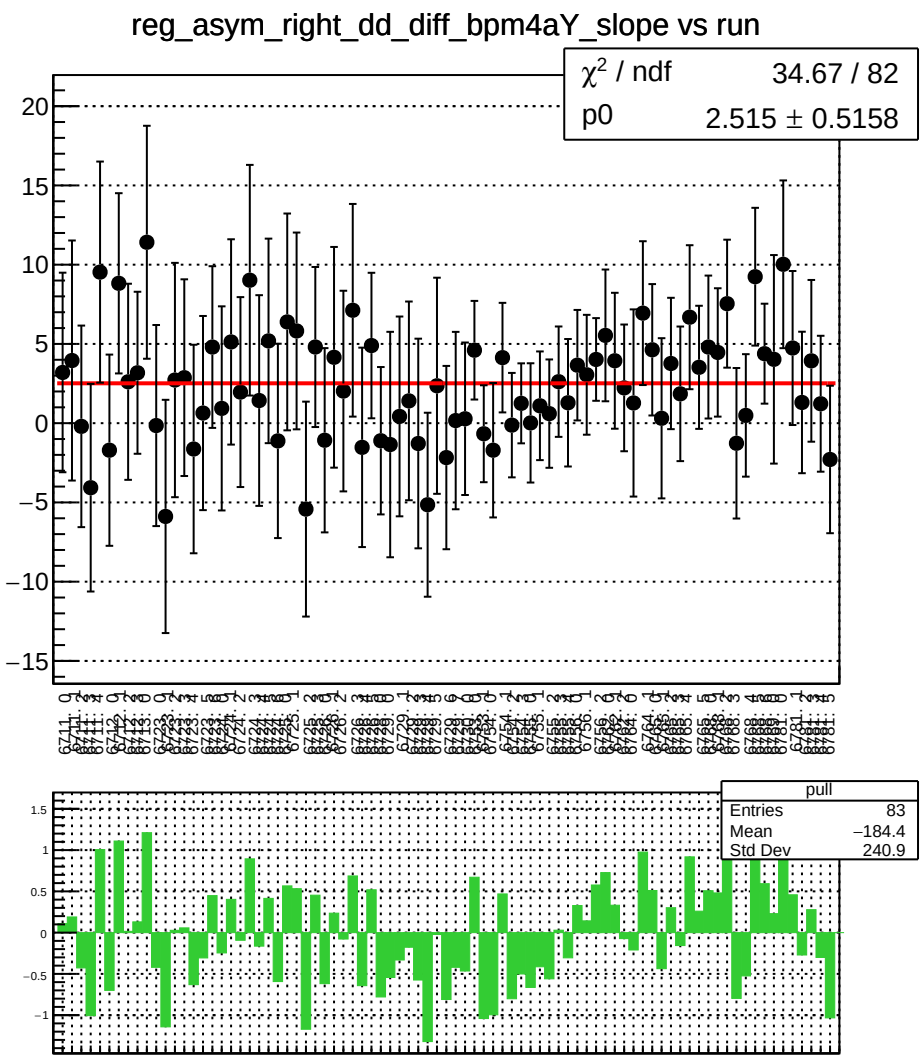

pull1D
Entries 83
Mean 0.03773
Std Dev 0.7047

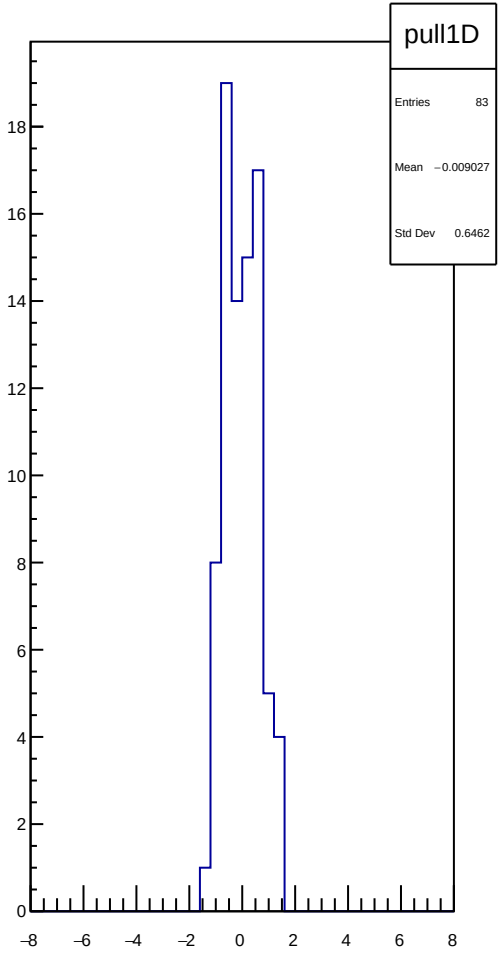

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 206.7 / 82
p0 −19.31 ± 0.039
−18
−18.5
−19
−19.5
−20
−20.5
−21
pull
Entries 83
Mean −246.3
Std Dev 291.9
3
2
1
0
−1
−2
−3

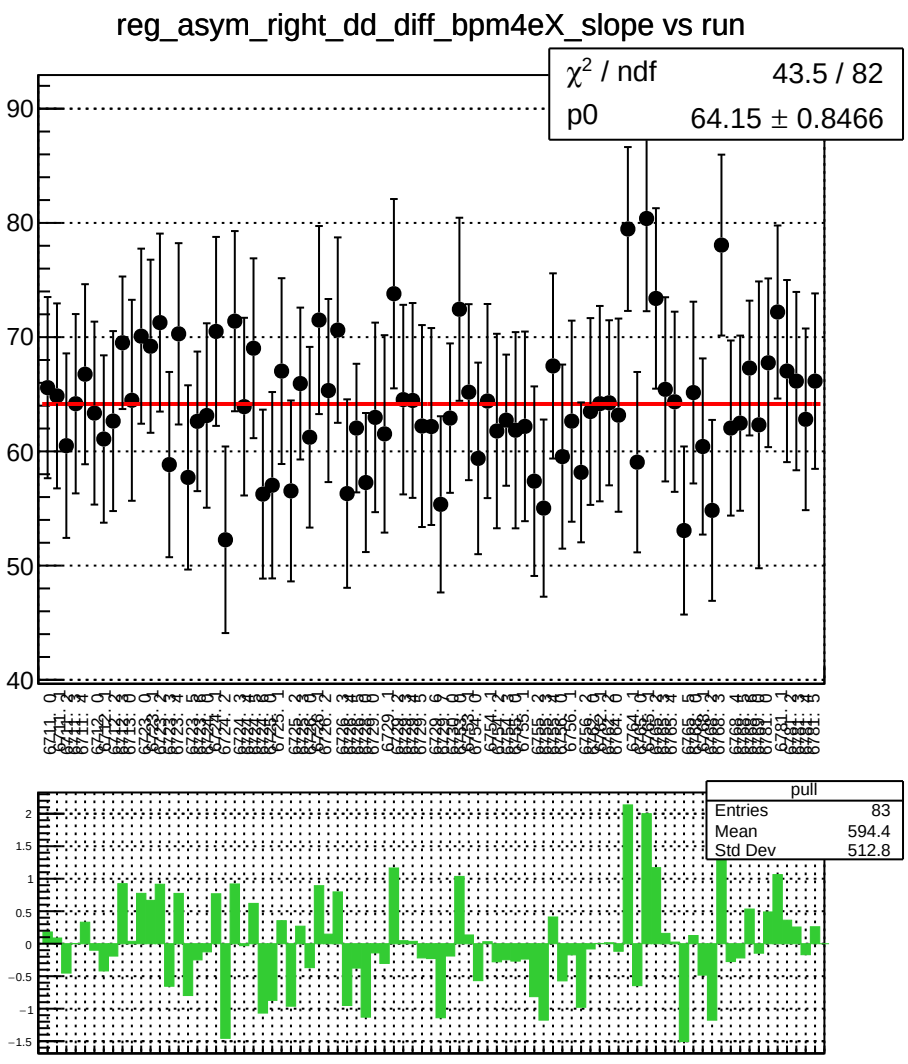

pull1D
Entries 83
Mean −0.08713
Std Dev 1.576
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

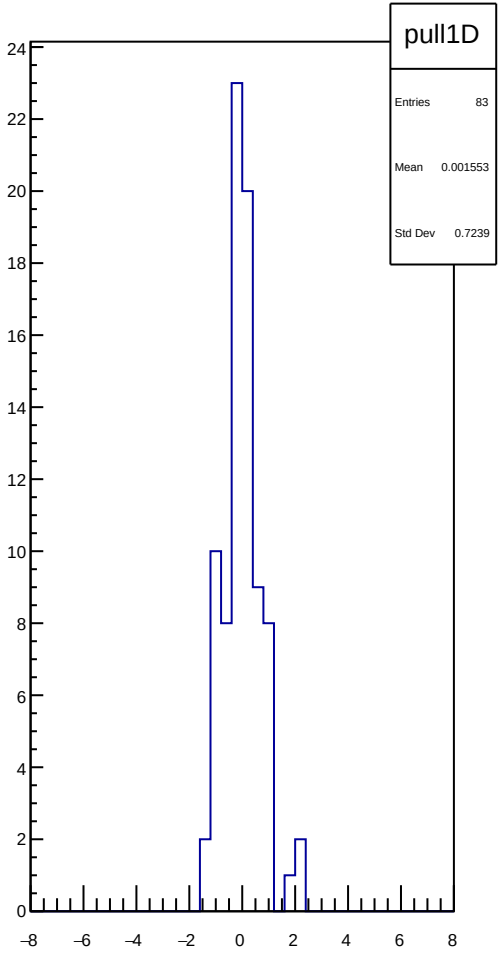

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 45.42 / 82
p0 −35.27 ± 0.8859
pull
Entries 83
Mean 663.5
Std Dev 611.8

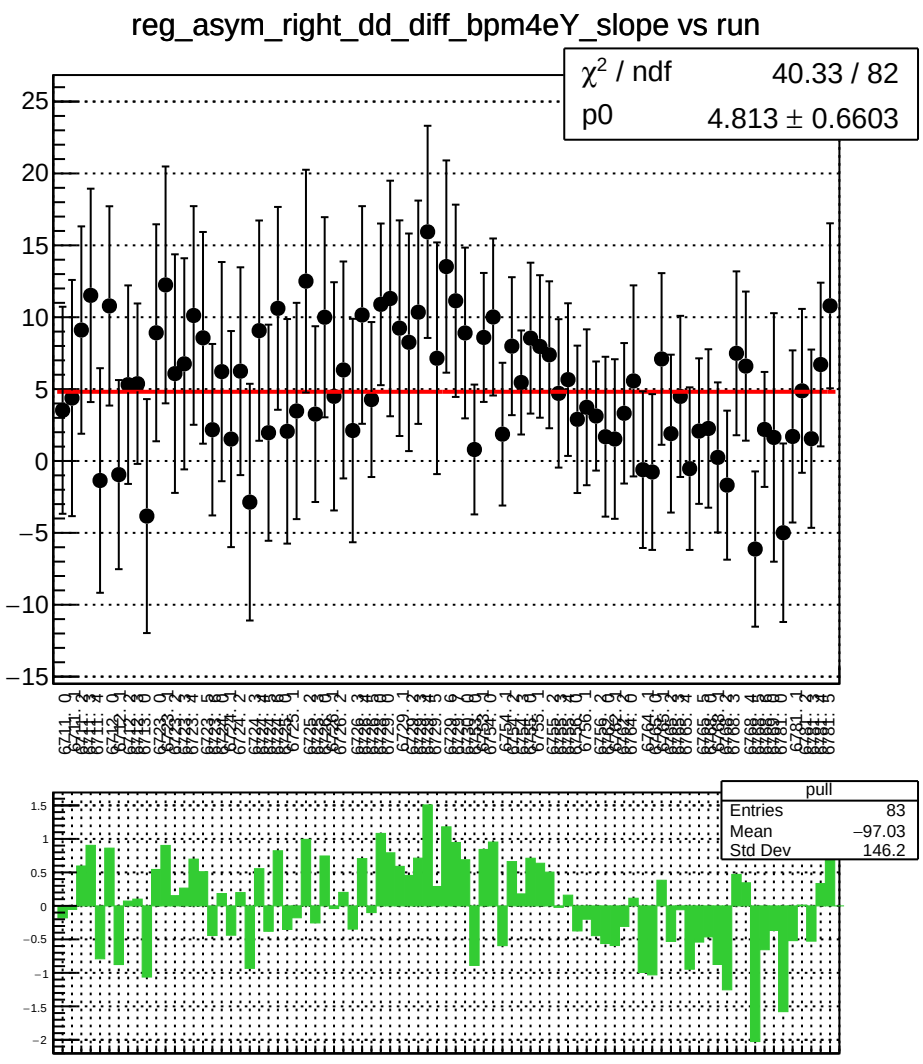

pull1D
Entries 83
Mean −0.006007
Std Dev 0.7397

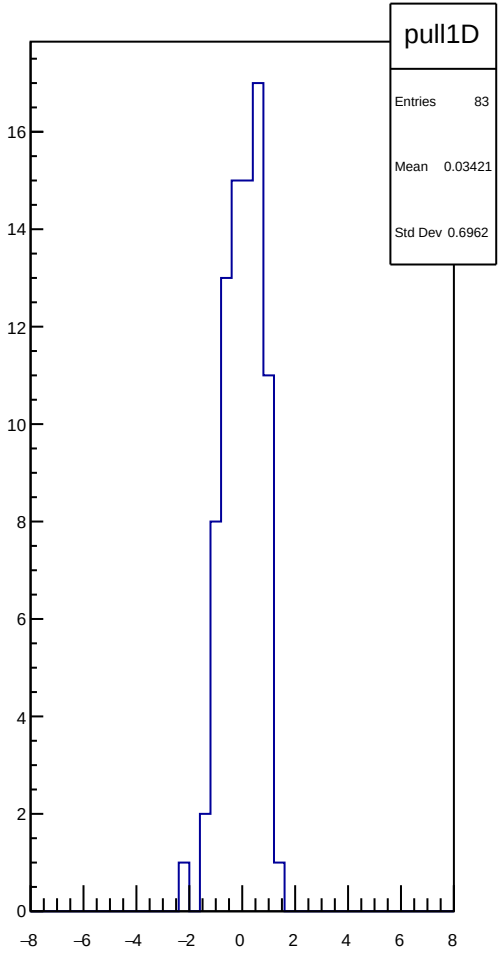

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.67 / 82
p0 2.515 ± 0.5158
pull
Entries 83
Mean −184.4
Std Dev 240.9

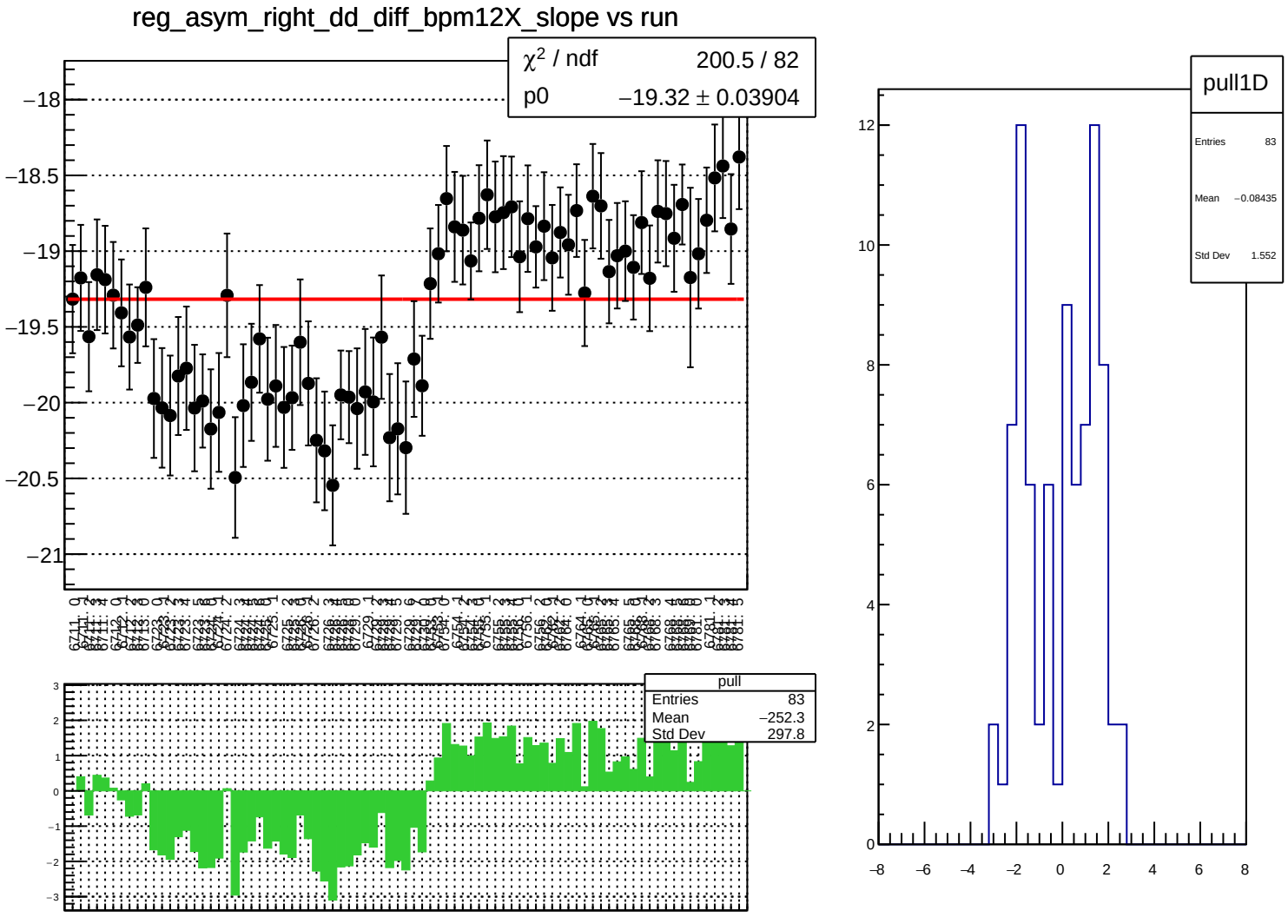

pull1D
Entries 83
Mean −0.009027
Std Dev 0.6462

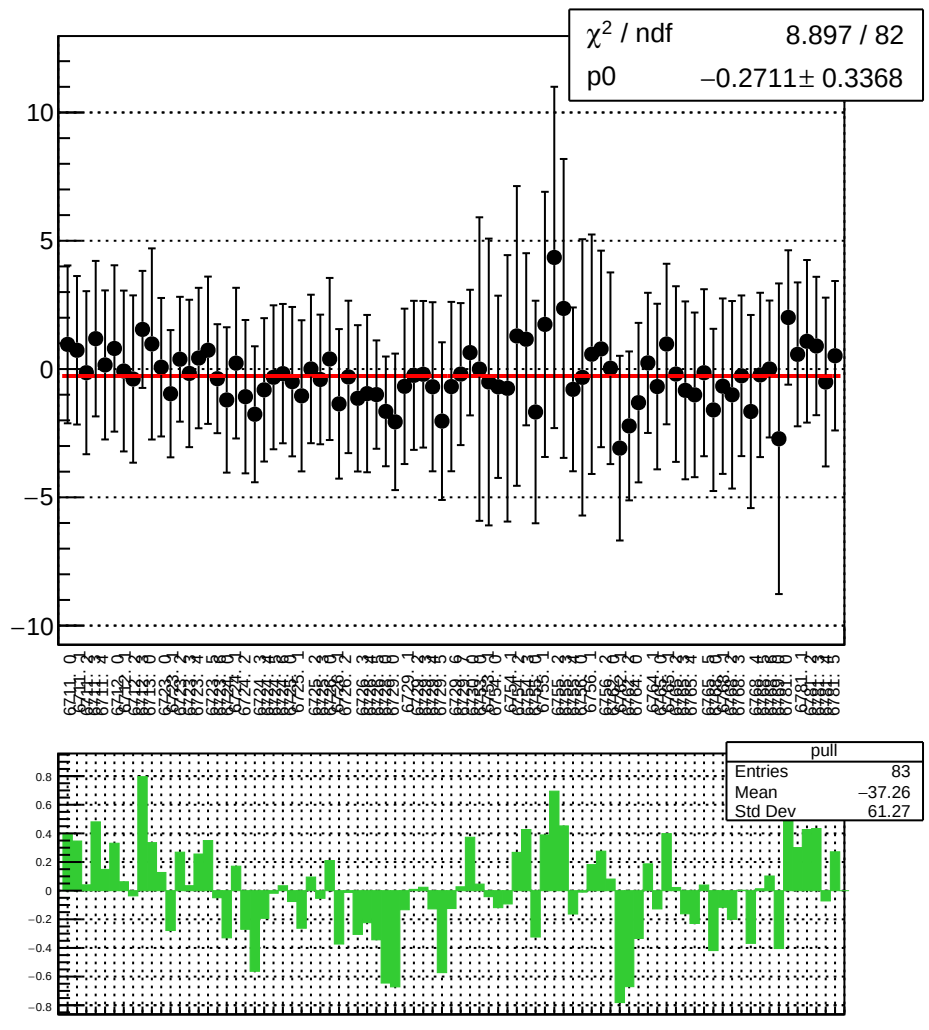

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.5 / 82
p0 64.15 ± 0.8466
pull
Entries 83
Mean 594.4
Std Dev 512.8

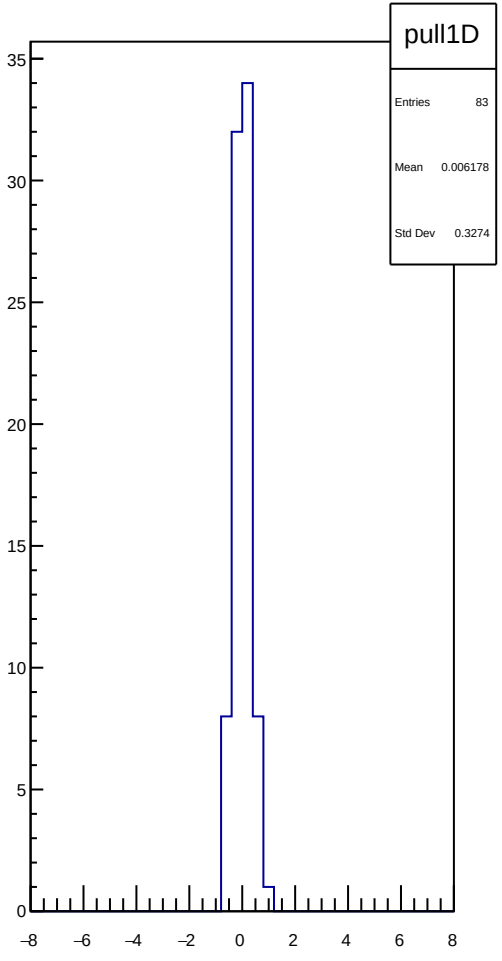

pull1D
Entries 83
Mean 0.001553
Std Dev 0.7239

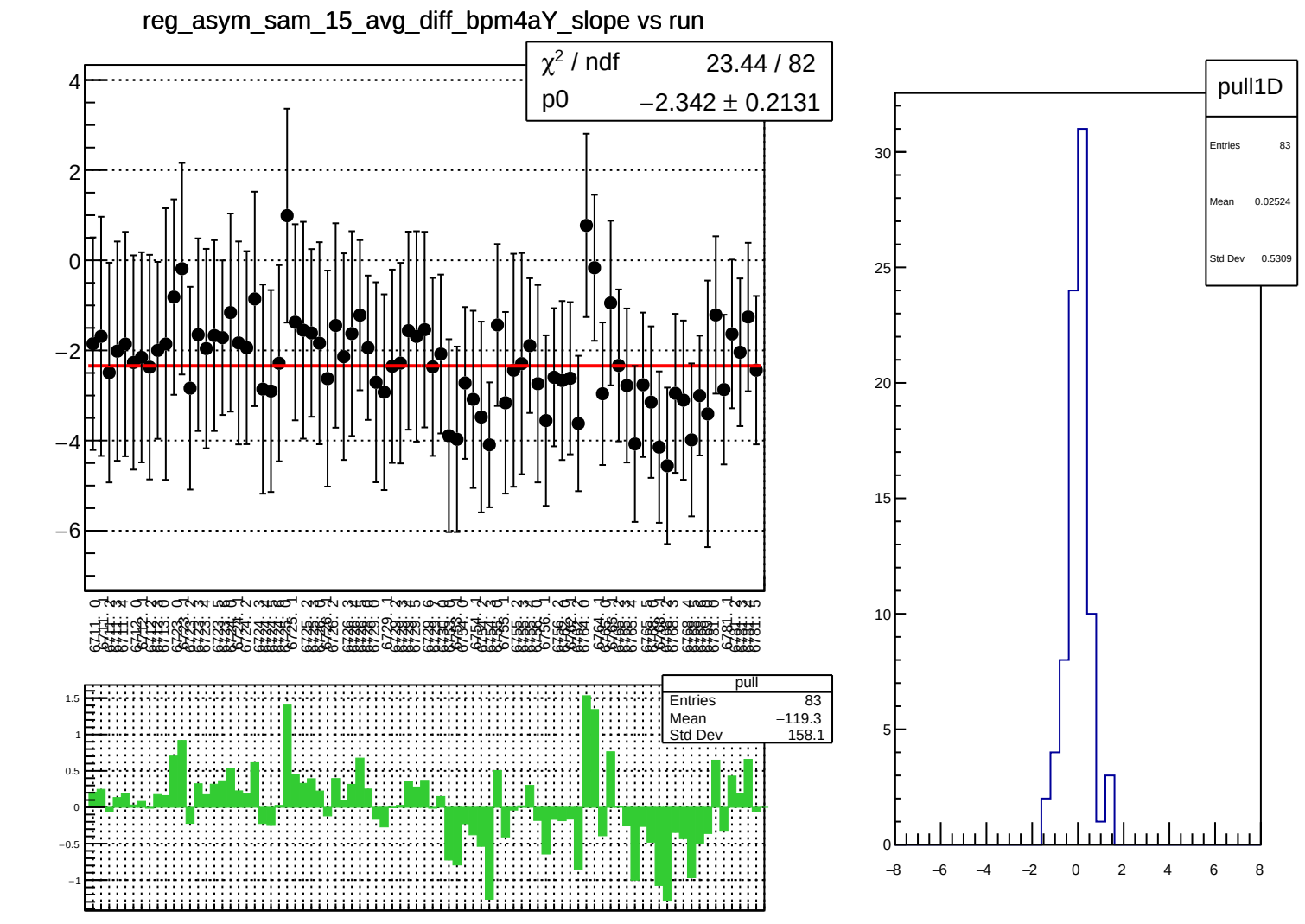

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.33 / 82
p0 4.813 ± 0.6603
pull
Entries 83
Mean −97.03
Std Dev 146.2

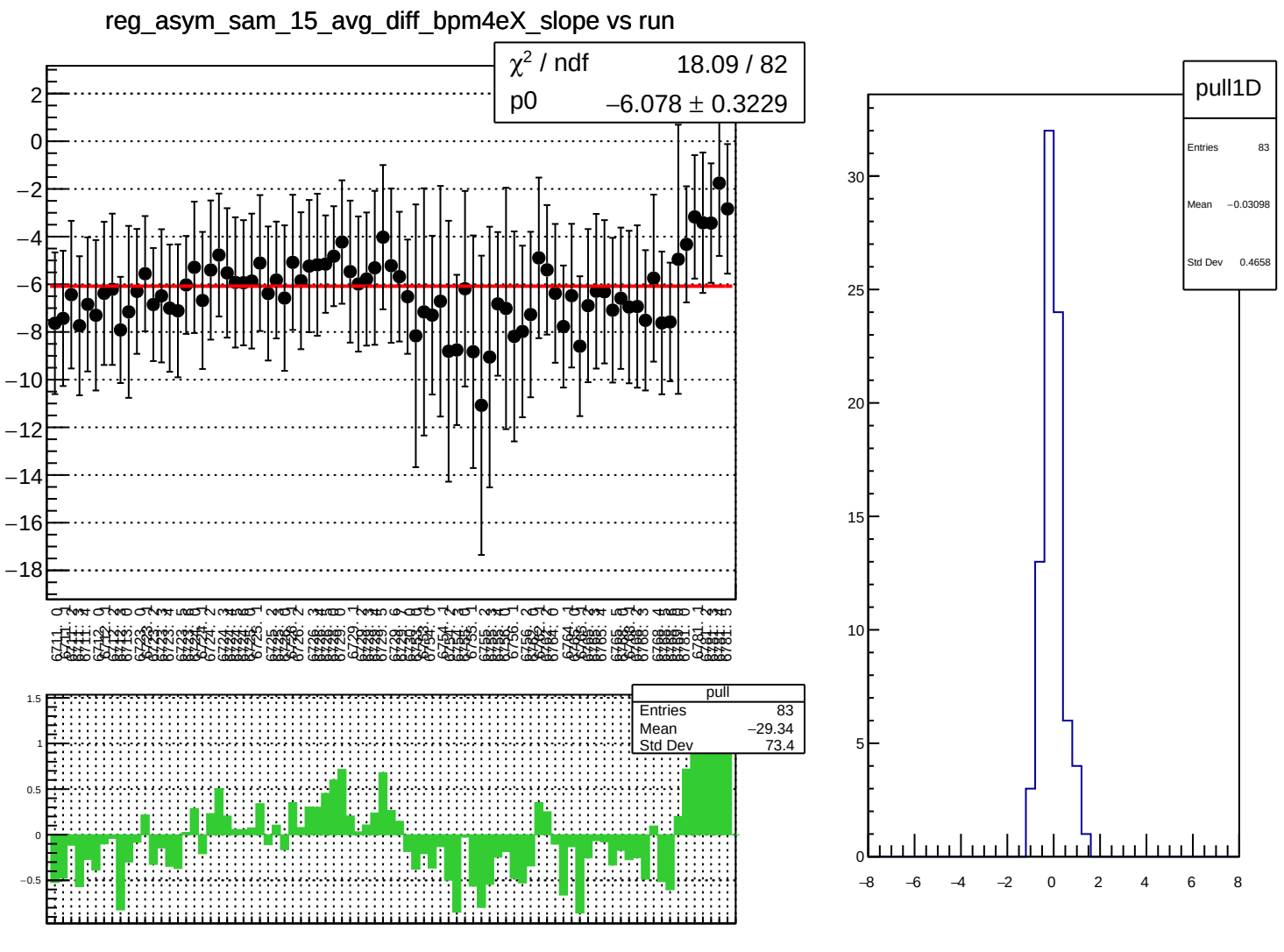

pull1D
Entries 83
Mean 0.03421
Std Dev 0.6962

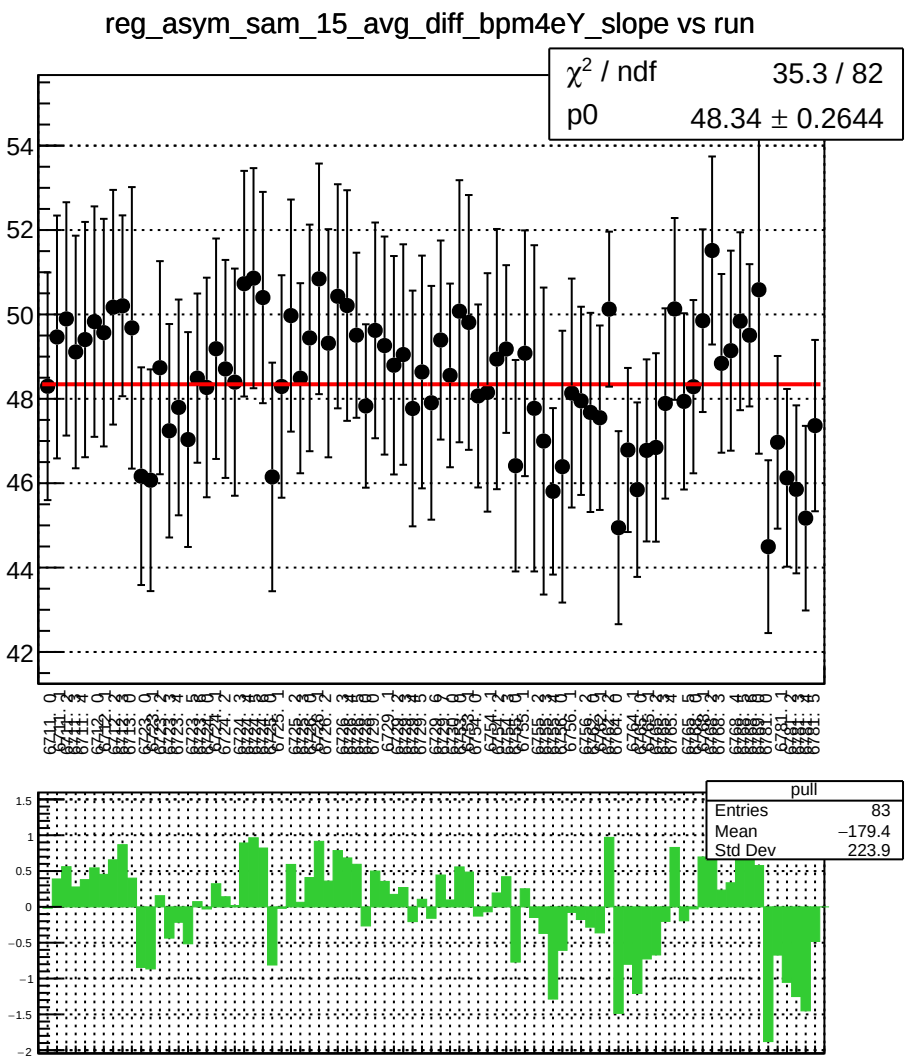

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 200.5 / 82
p0 −19.32 ± 0.03904
−18
−18.5
−19
−19.5
−20
−20.5
−21
pull
Entries 83
Mean −252.3
Std Dev 297.8
3
2
1
0
−1
−2
−3
pull1D
Entries 83
Mean −0.08435
Std Dev 1.552
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

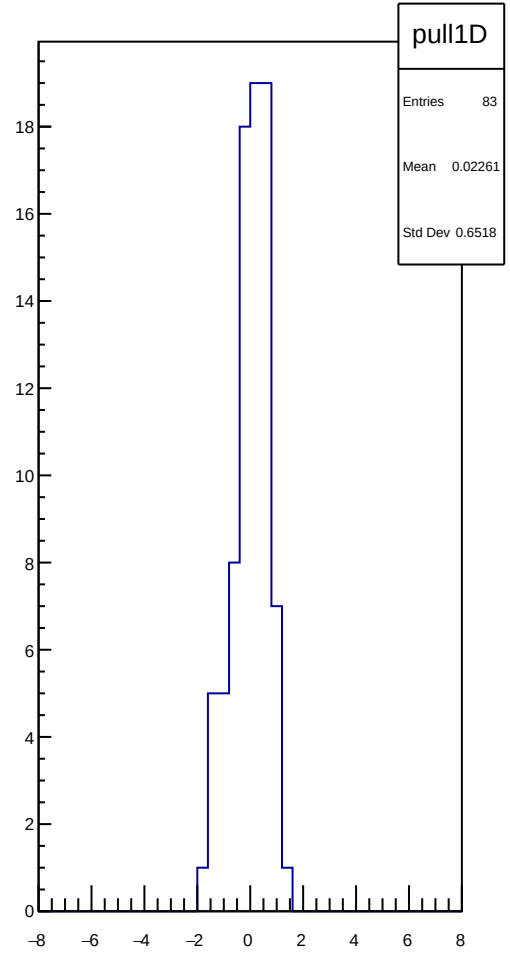

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 8.897 / 82
p0 −0.2711± 0.3368
pull
Entries 83
Mean −37.26
Std Dev 61.27

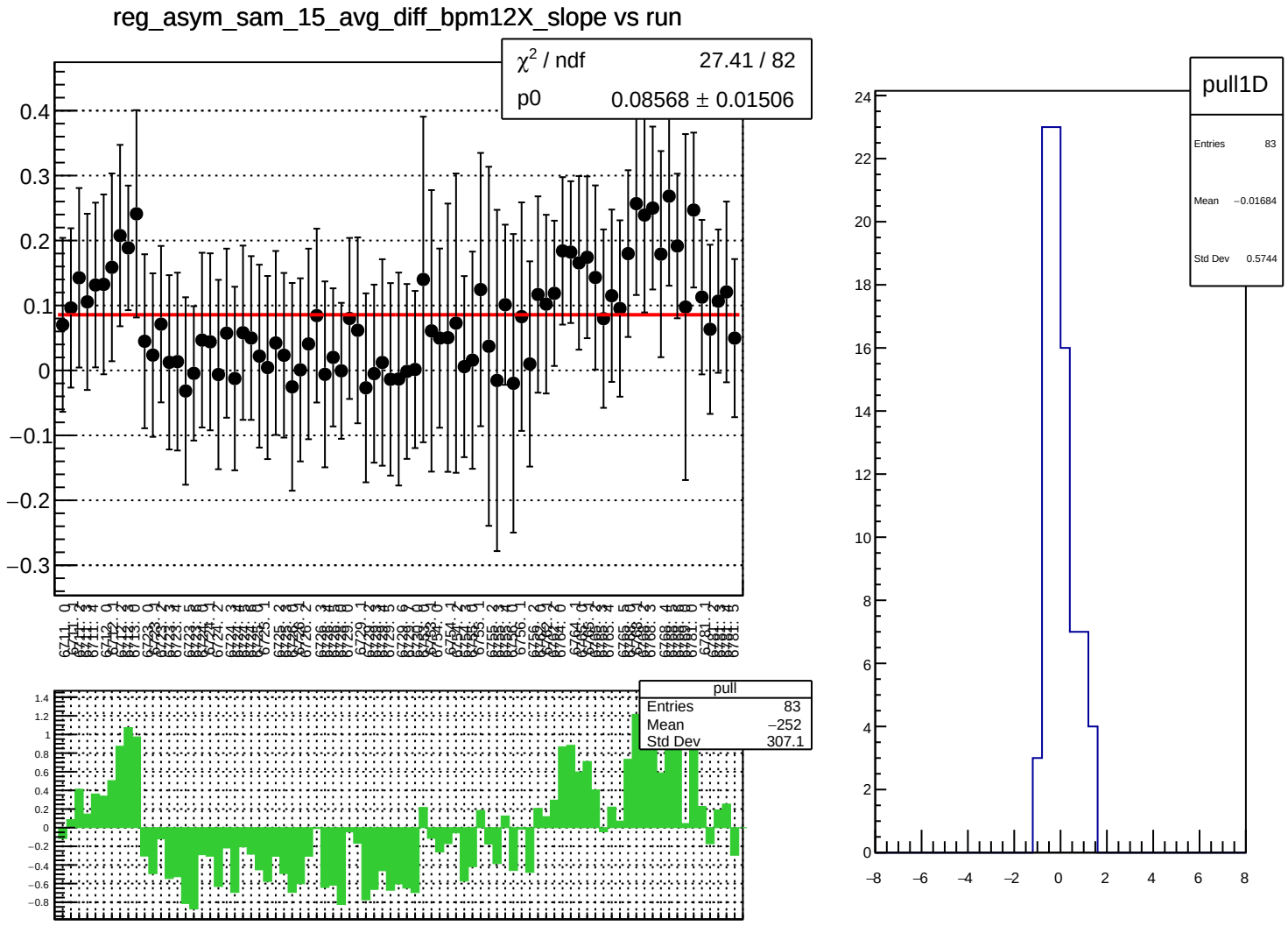

pull1D
Entries 83
Mean 0.006178
Std Dev 0.3274

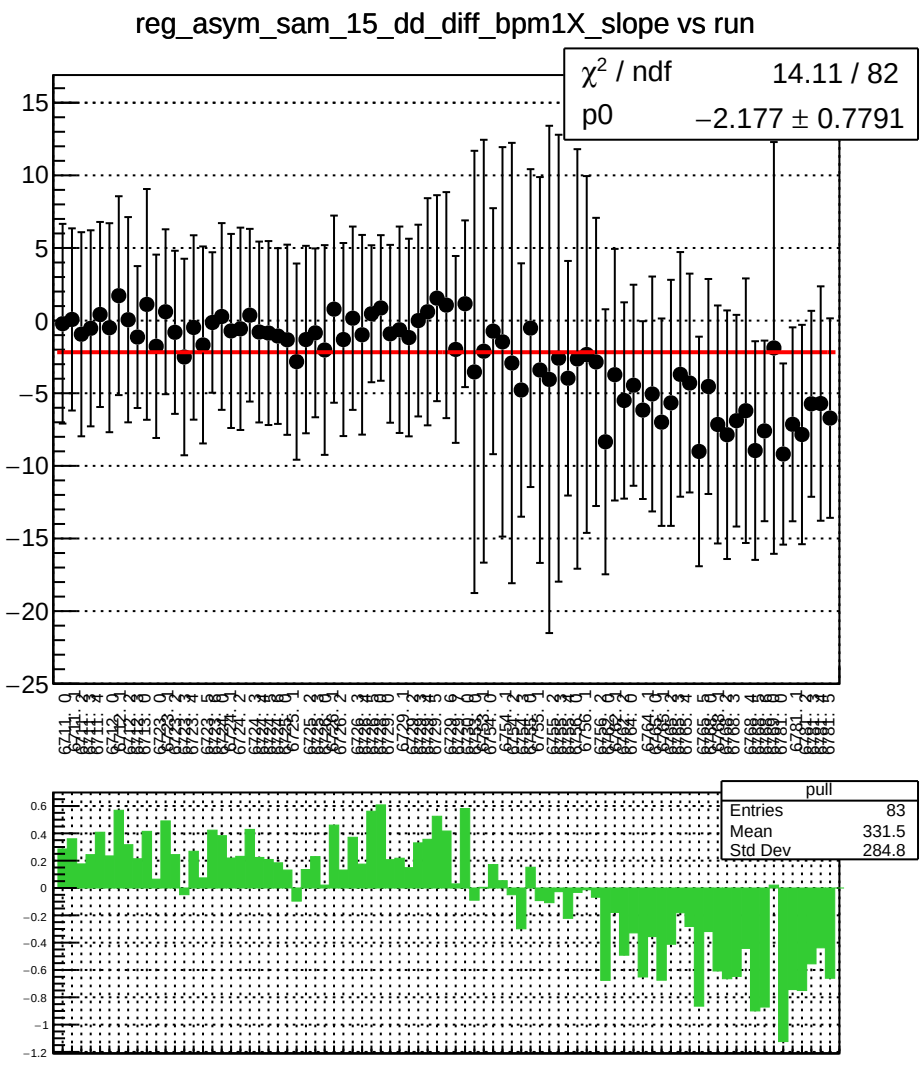

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.44 / 82
p0 −2.342 ± 0.2131
pull
Entries 83
Mean −119.3
Std Dev 158.1
pull1D
Entries 83
Mean 0.02524
Std Dev 0.5309

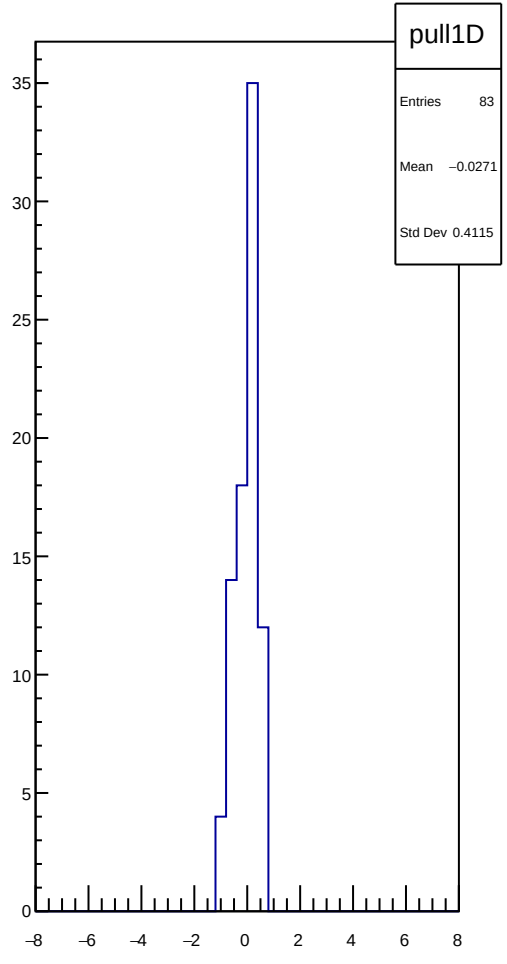

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.09 / 82
p0 −6.078 ± 0.3229
pull
Entries 83
Mean −29.34
Std Dev 73.4
pull1D
Entries 83
Mean −0.03098
Std Dev 0.4658

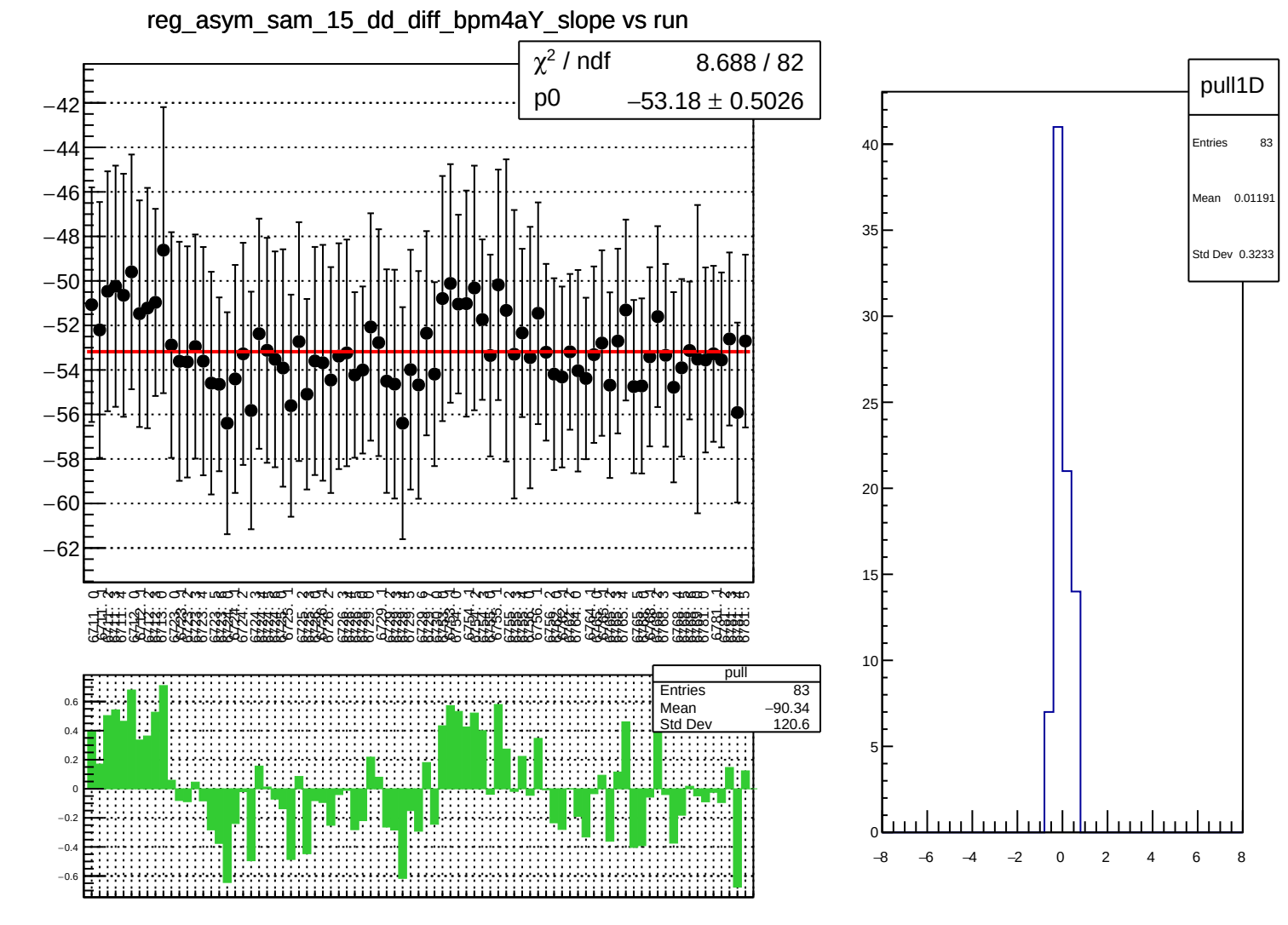

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.3 / 82
p0 48.34 ± 0.2644
pull
Entries 83
Mean −179.4
Std Dev 223.9

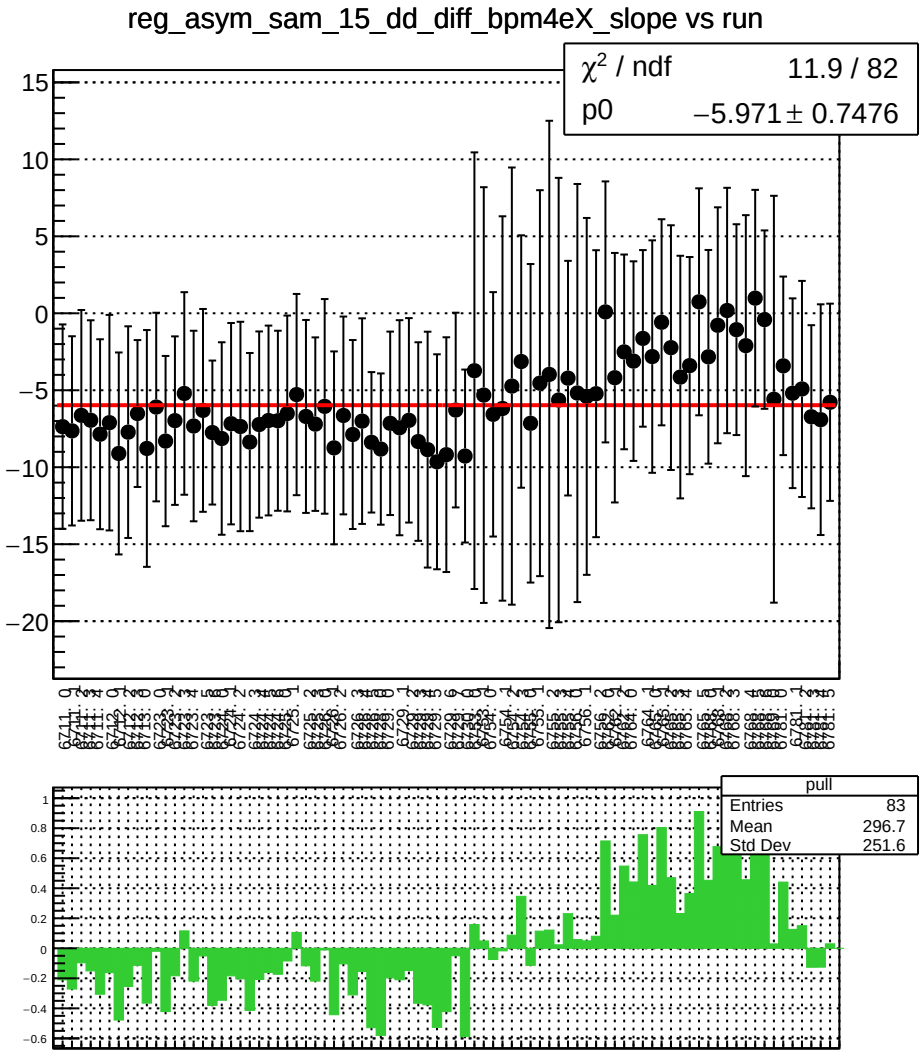

pull1D
Entries 83
Mean 0.02261
Std Dev 0.6518

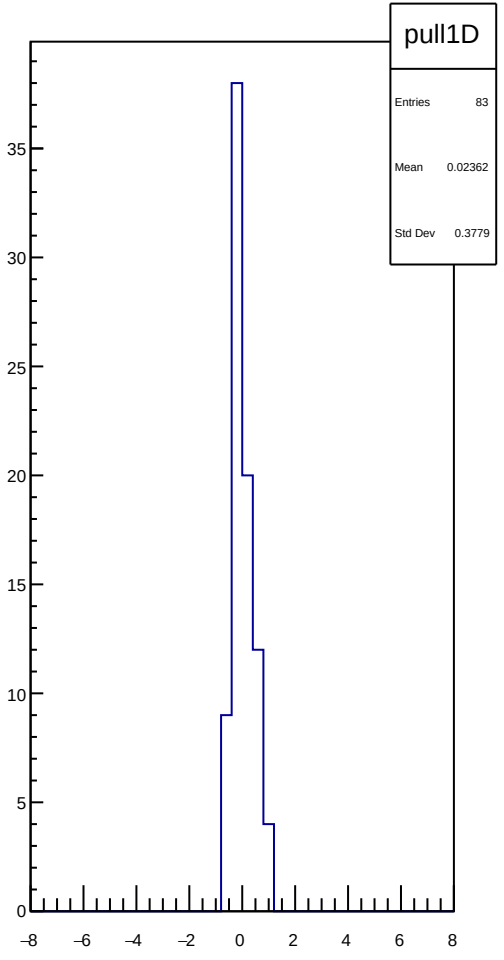

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 27.41 / 82
p0 0.08568 ± 0.01506
pull
Entries 83
Mean −252
Std Dev 307.1
pull1D
Entries 83
Mean −0.01684
Std Dev 0.5744

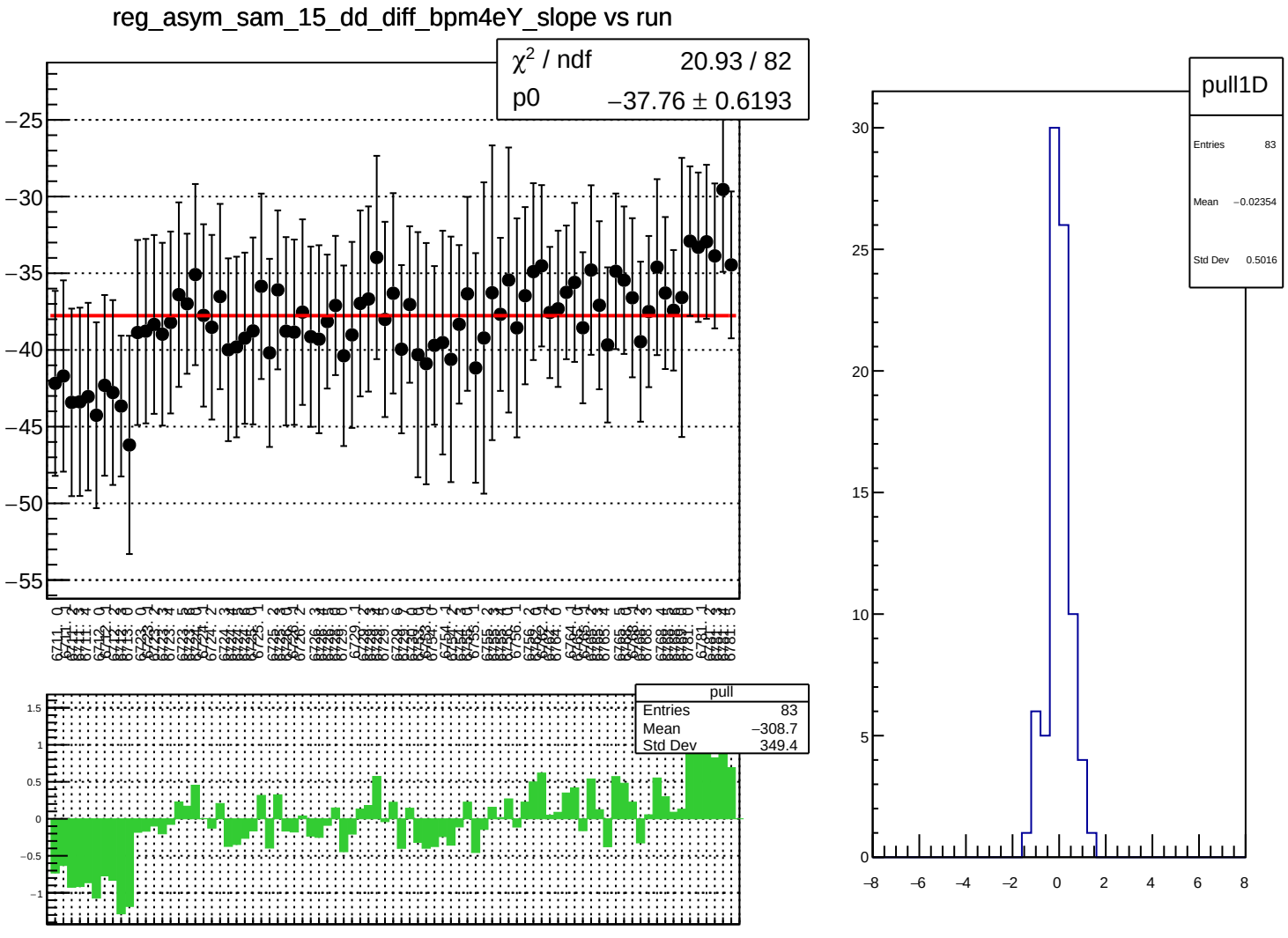

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 14.11 / 82
p0 −2.177 ± 0.7791
pull
Entries 83
Mean 331.5
Std Dev 284.8

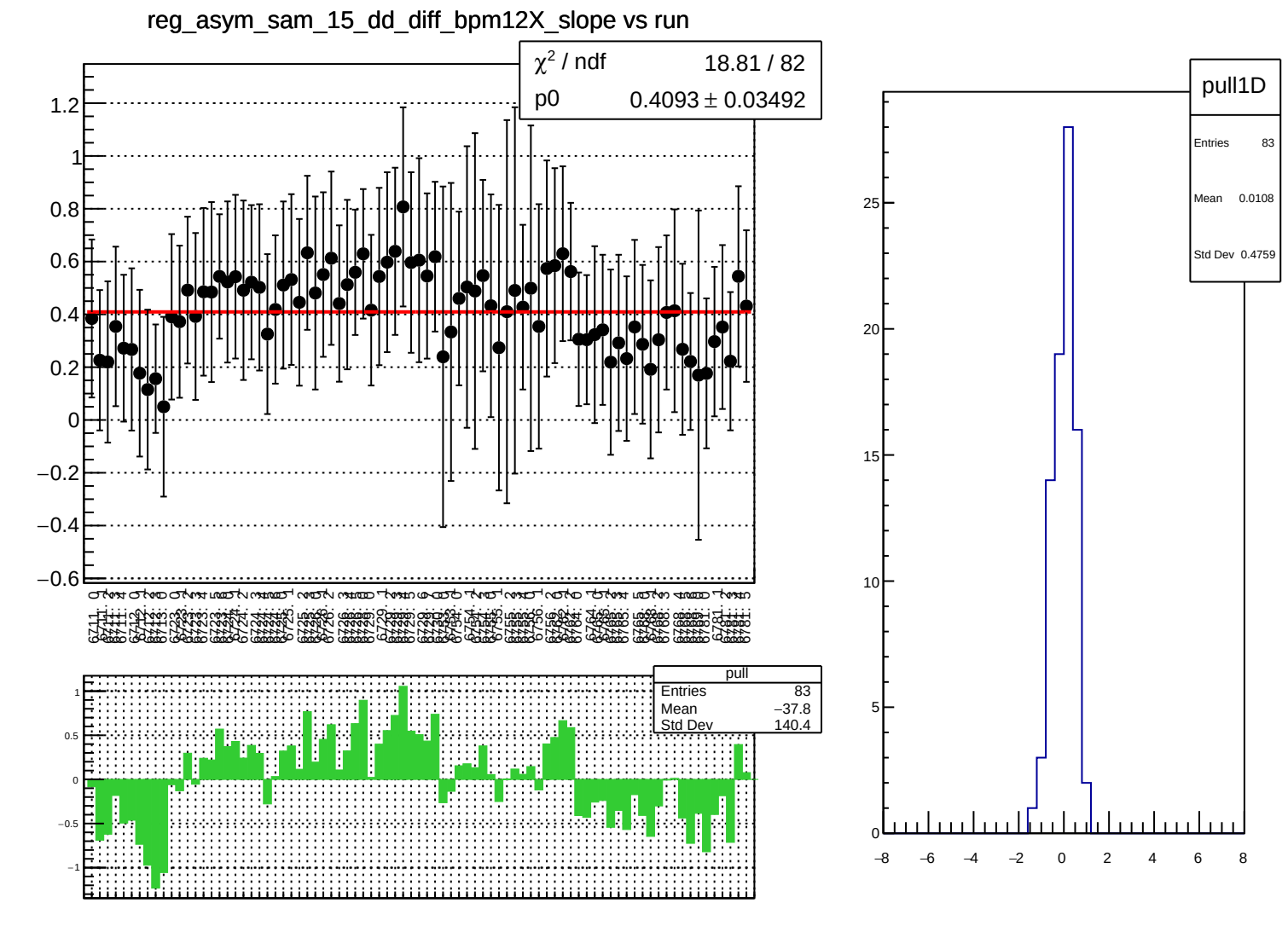

pull1D
Entries 83
Mean −0.0271
Std Dev 0.4115

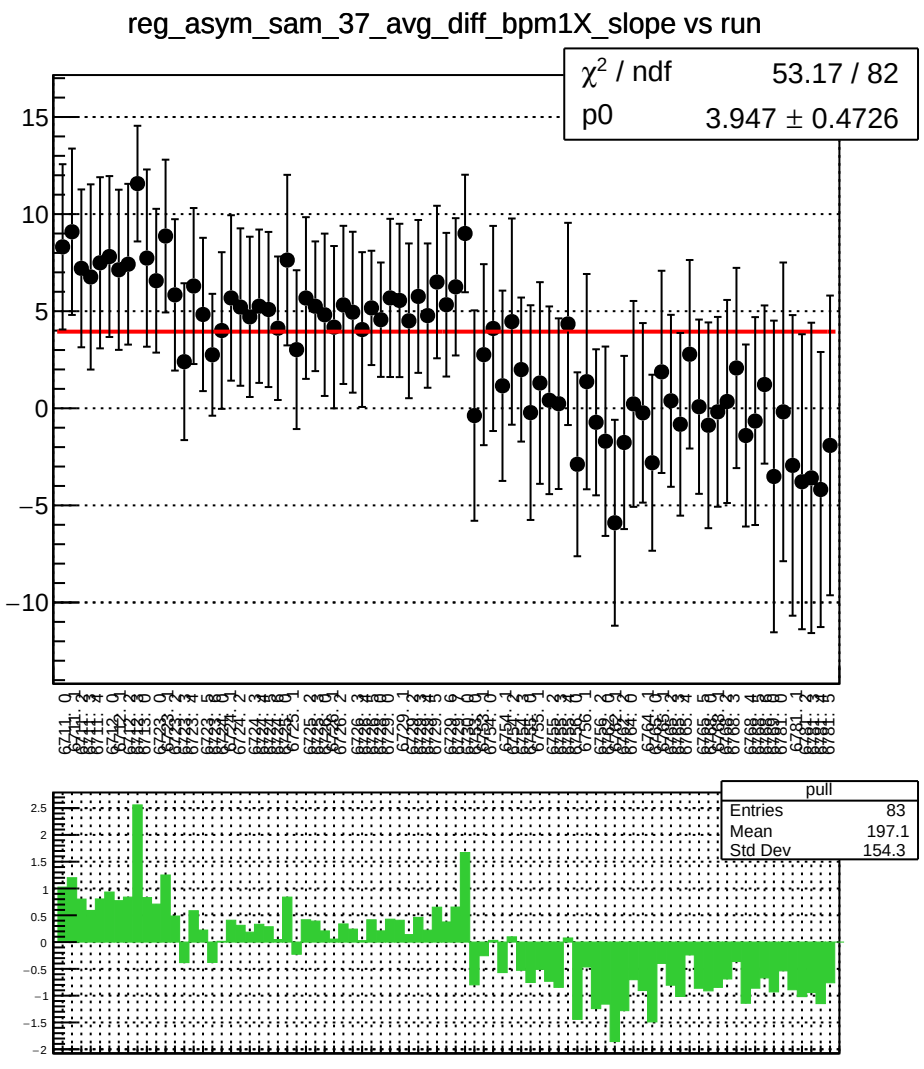

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.688 / 82
p0 −53.18 ± 0.5026
pull
Entries 83
Mean −90.34
Std Dev 120.6
pull1D
Entries 83
Mean 0.01191
Std Dev 0.3233

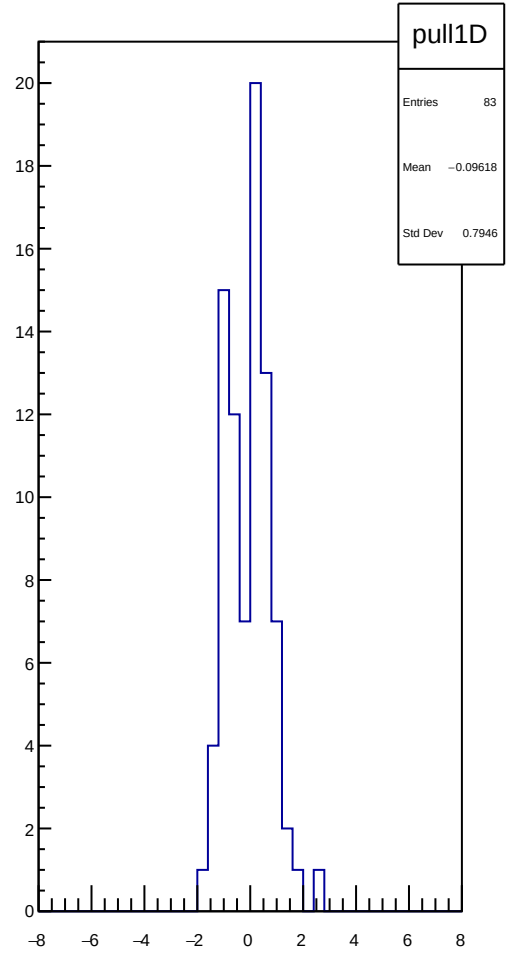

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.9 / 82
p0 −5.971 ± 0.7476
pull
Entries 83
Mean 296.7
Std Dev 251.6

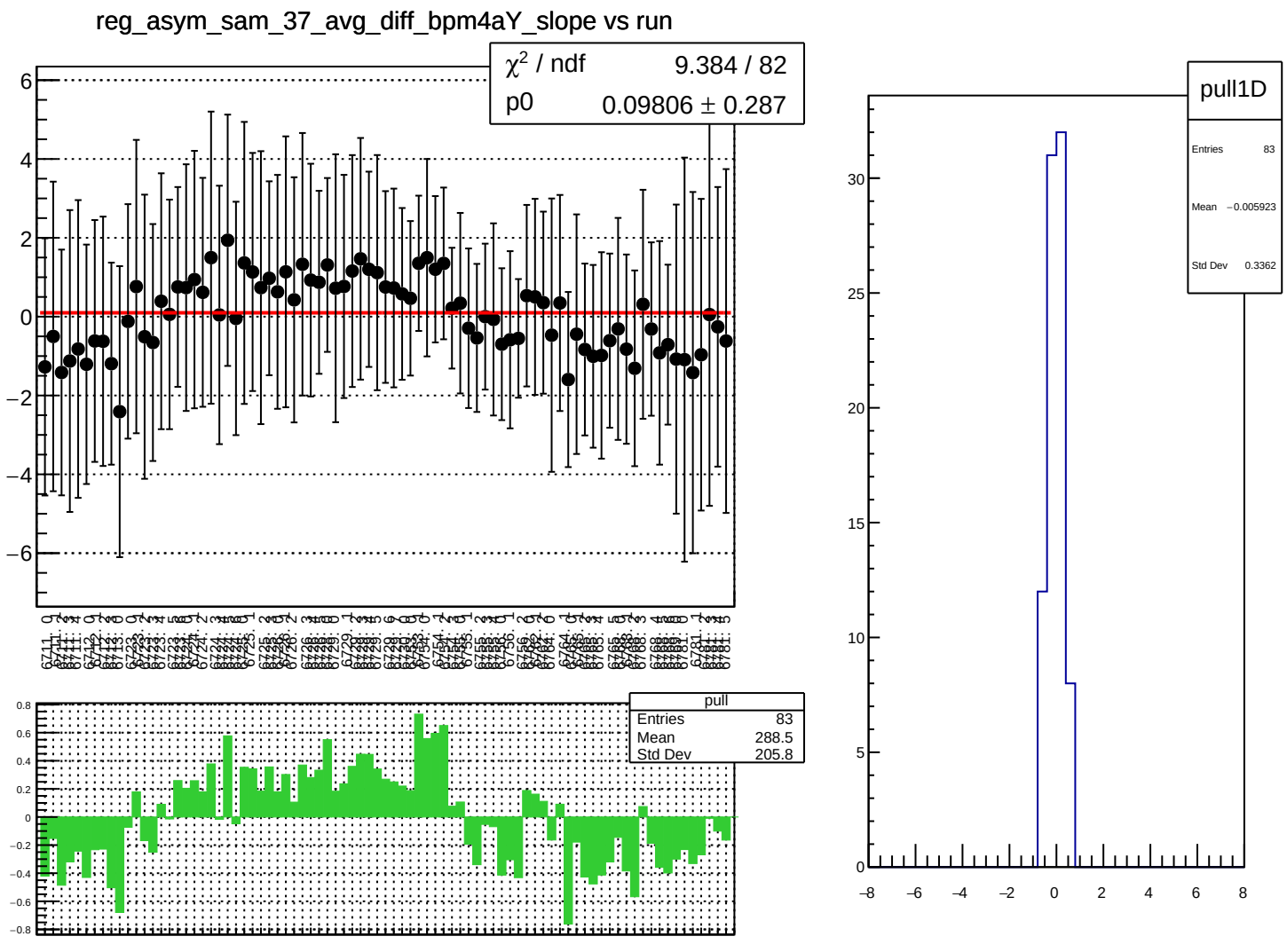

pull1D
Entries 83
Mean 0.02362
Std Dev 0.3779

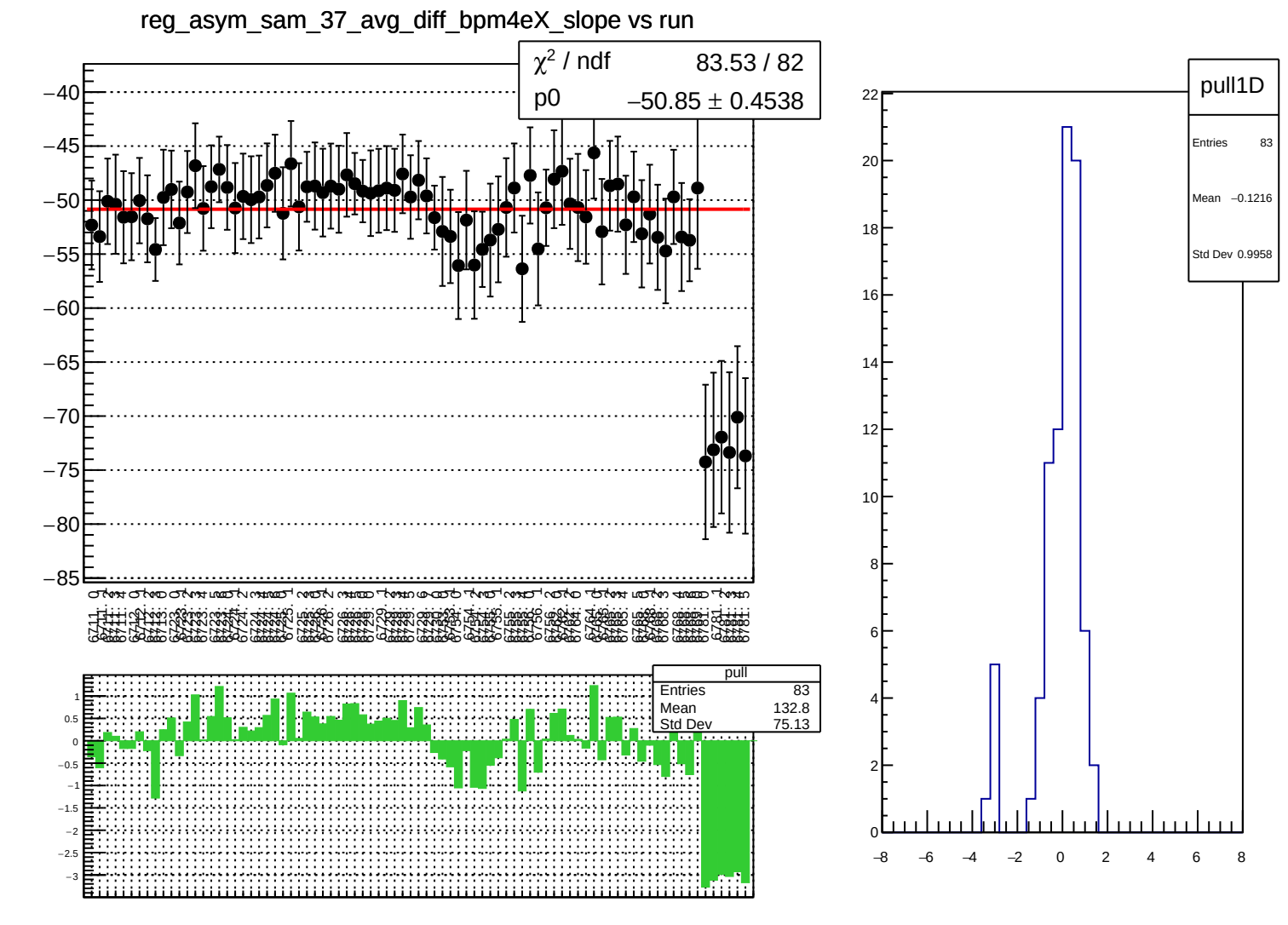

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.93 / 82
p0 −37.76 ± 0.6193
pull
Entries 83
Mean −308.7
Std Dev 349.4
pull1D
Entries 83
Mean −0.02354
Std Dev 0.5016

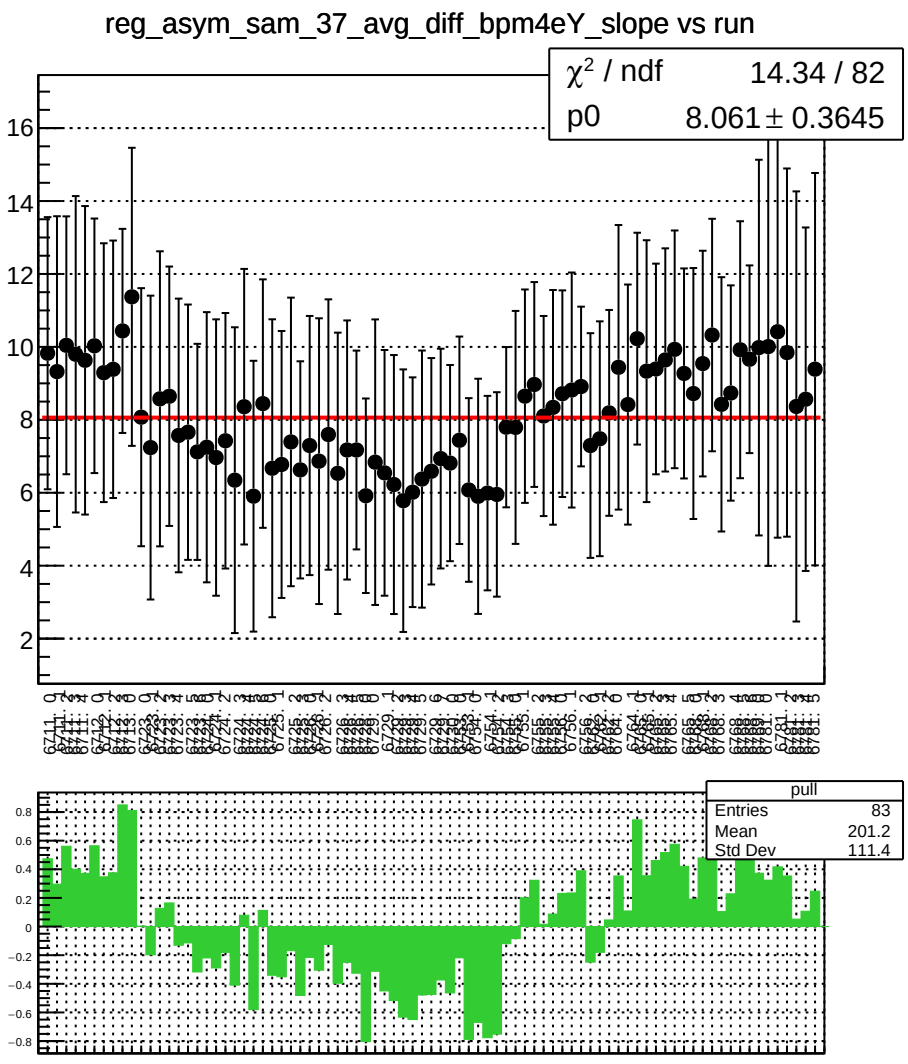

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 18.81 / 82
p0 0.4093 ± 0.03492
pull
Entries 83
Mean −37.8
Std Dev 140.4
pull1D
Entries 83
Mean 0.0108
Std Dev 0.4759

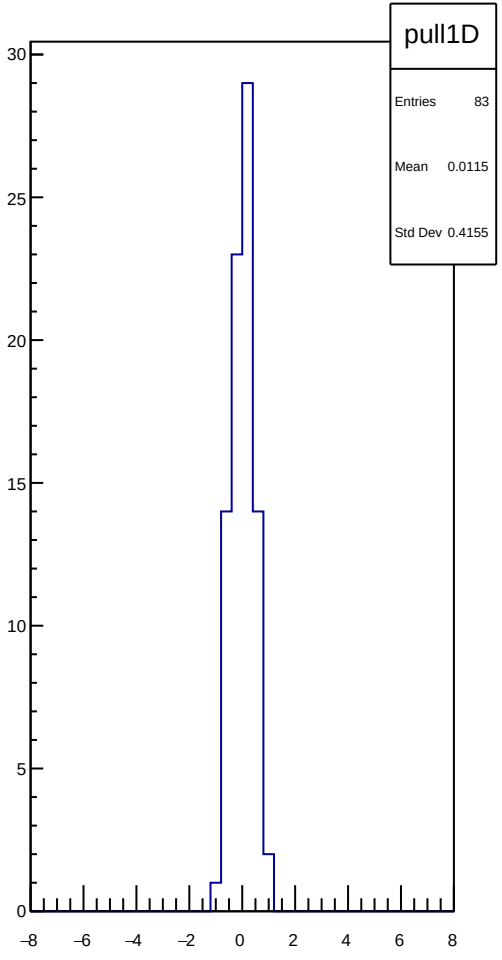

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 53.17 / 82
p0 3.947 ± 0.4726
pull
Entries 83
Mean 197.1
Std Dev 154.3

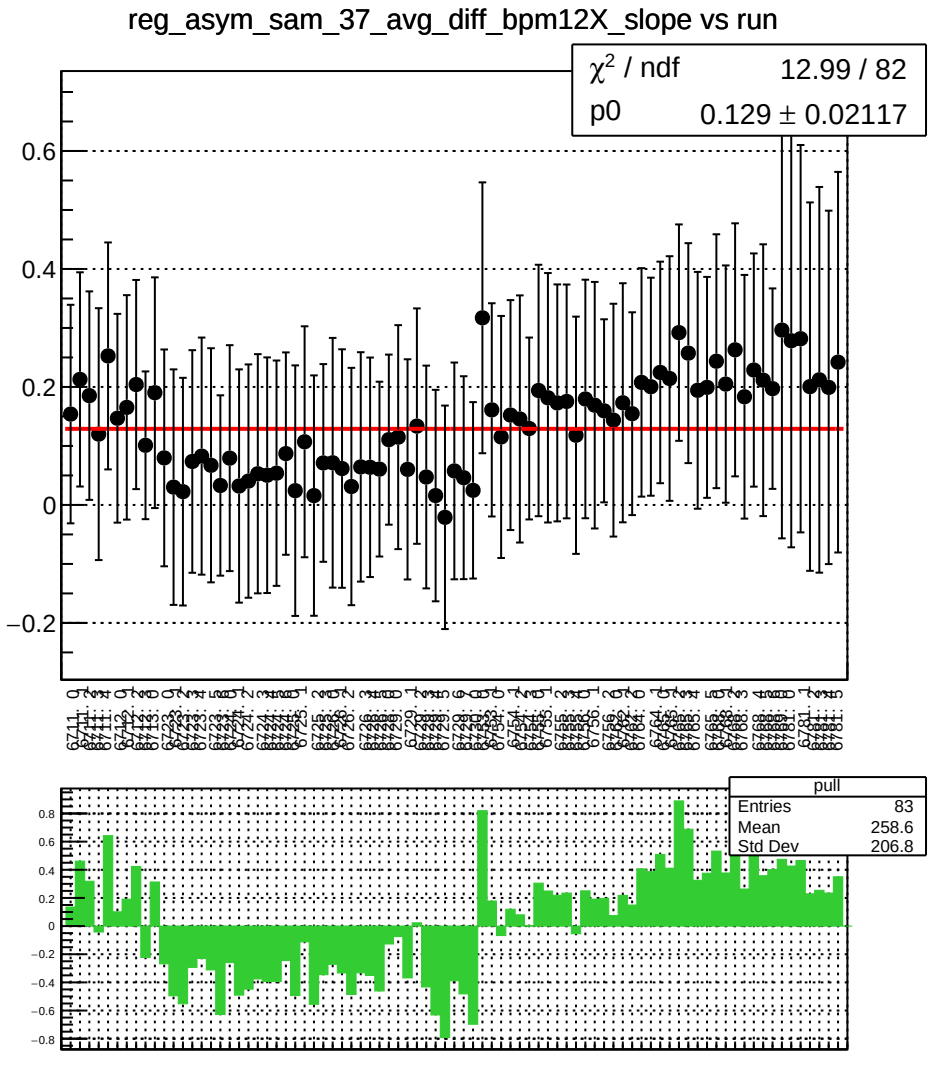

pull1D
Entries 83
Mean −0.09618
Std Dev 0.7946

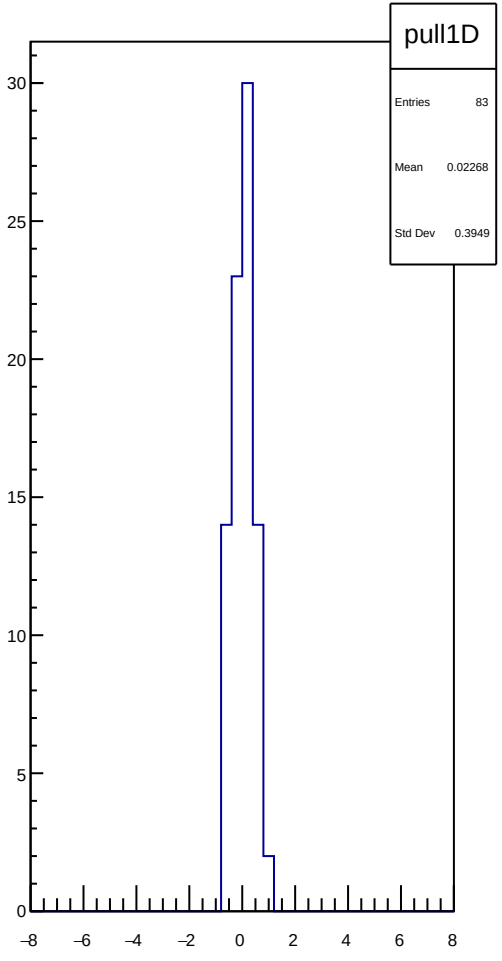

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.384 / 82
p0 0.09806 ± 0.287
pull
Entries 83
Mean 288.5
Std Dev 205.8
pull1D
Entries 83
Mean −0.005923
Std Dev 0.3362

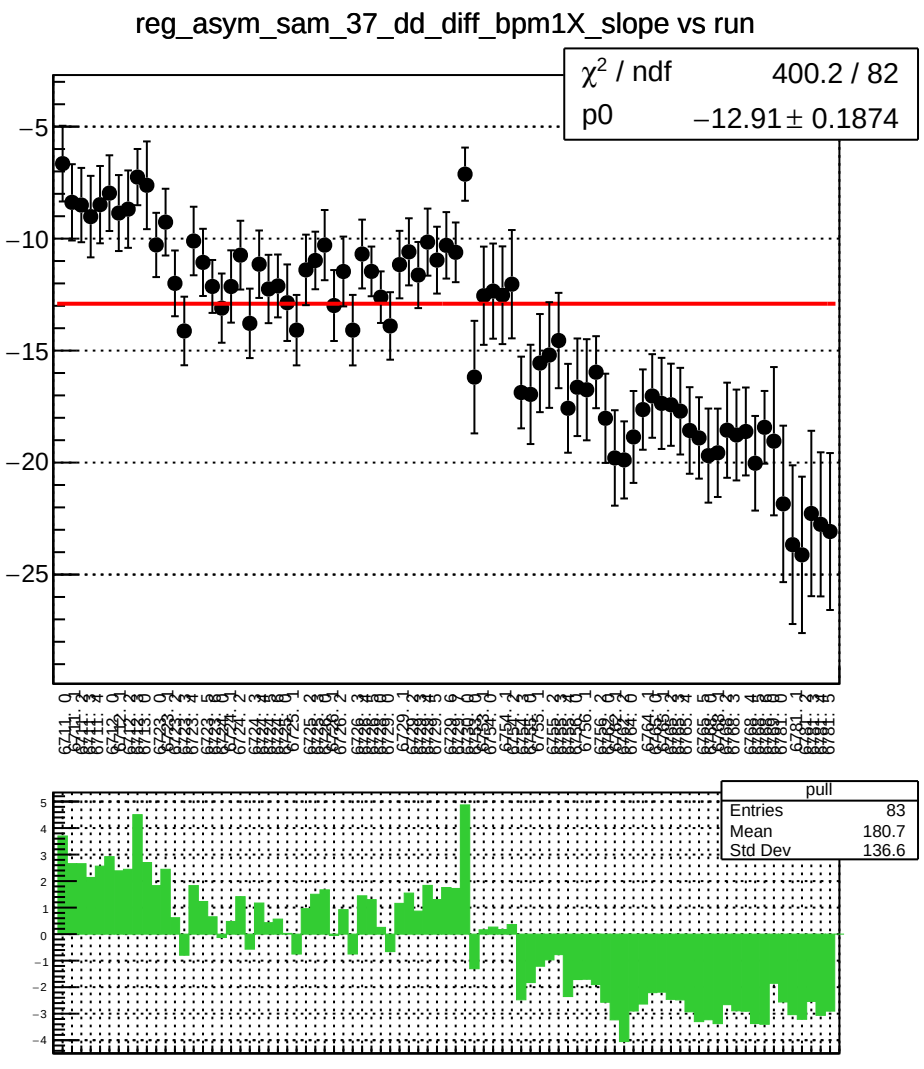

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 83.53 / 82
p0 −50.85 ± 0.4538
pull
Entries 83
Mean 132.8
Std Dev 75.13
pull1D
Entries 83
Mean −0.1216
Std Dev 0.9958

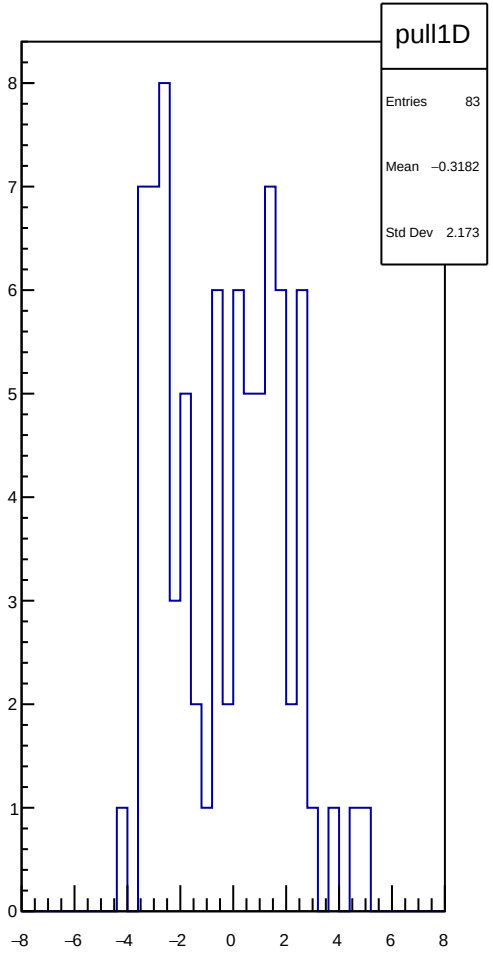

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.34 / 82
p0 8.061 ± 0.3645
pull
Entries 83
Mean 201.2
Std Dev 111.4

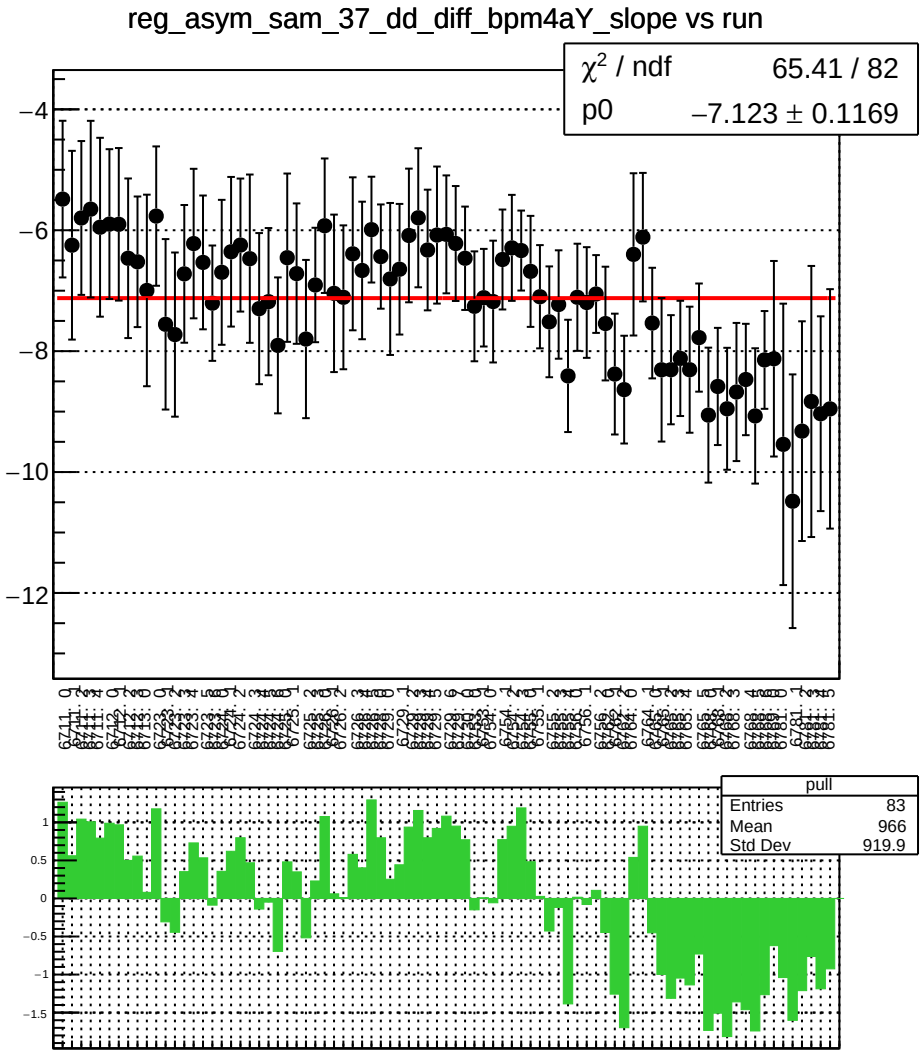

pull1D
Entries 83
Mean 0.0115
Std Dev 0.4155

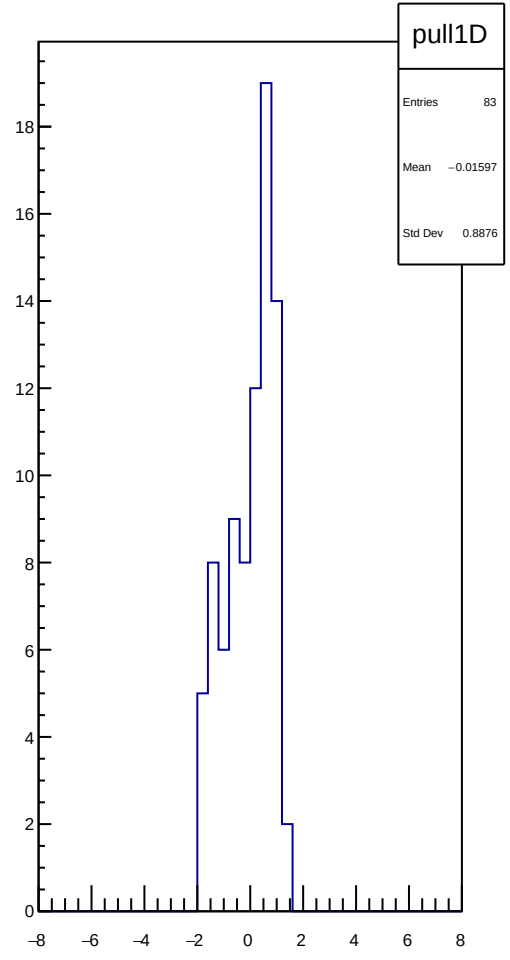

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 12.99 / 82
p0 0.129 ± 0.02117
pull
Entries 83
Mean 258.6
Std Dev 206.8

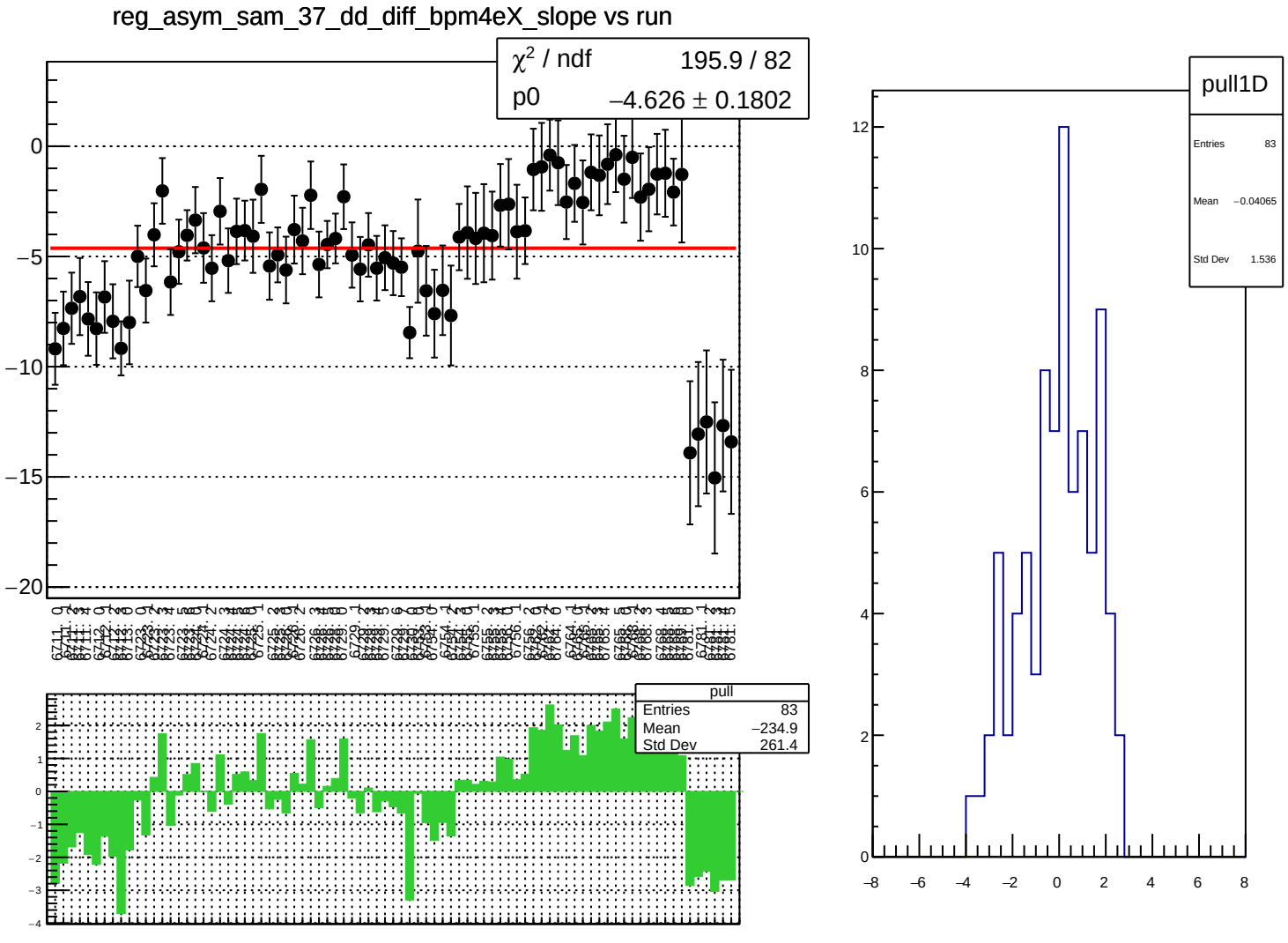

pull1D
Entries 83
Mean 0.02268
Std Dev 0.3949

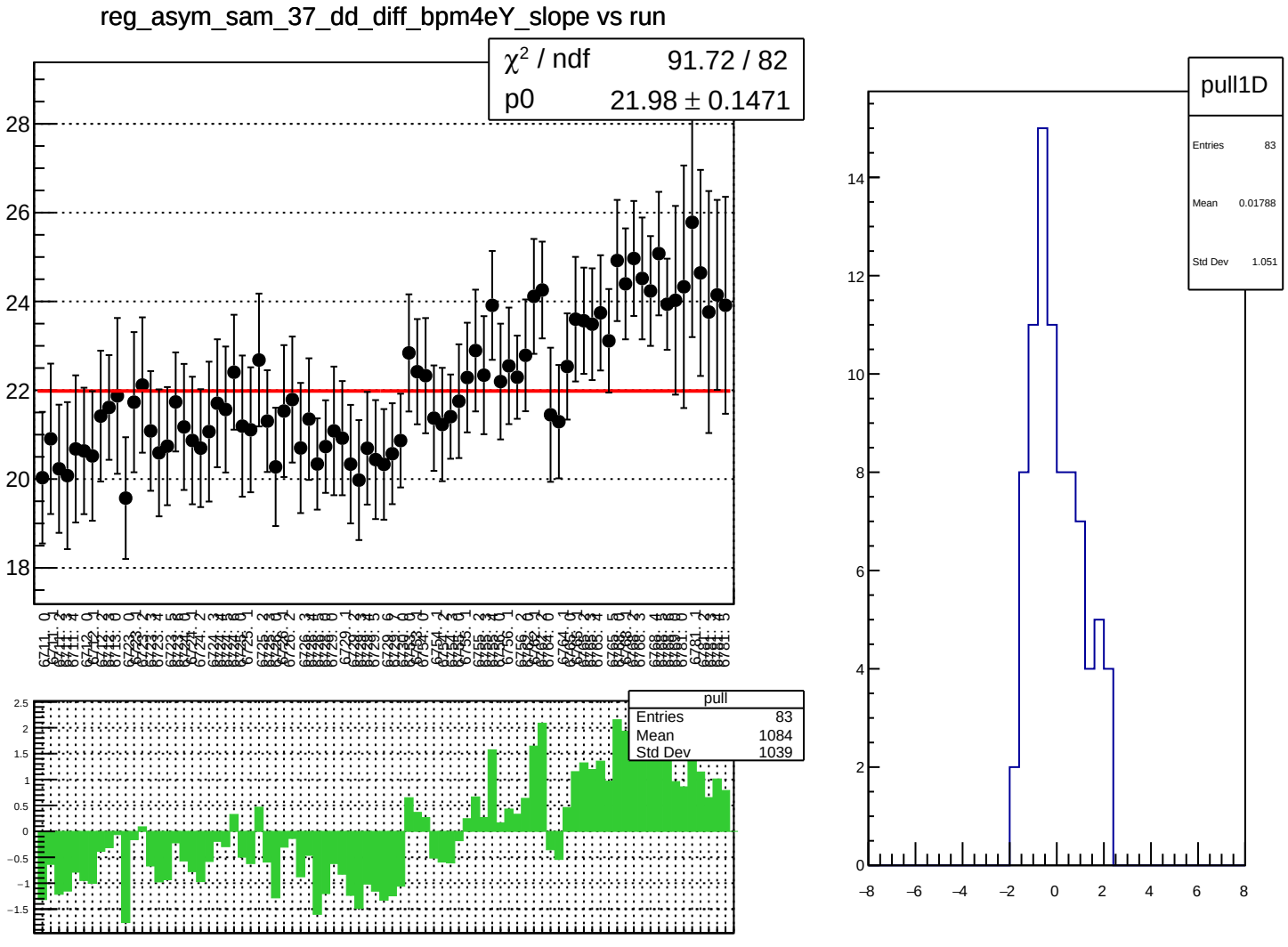

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 400.2 / 82
p0 −12.91 ± 0.1874
pull
Entries 83
Mean 180.7
Std Dev 136.6

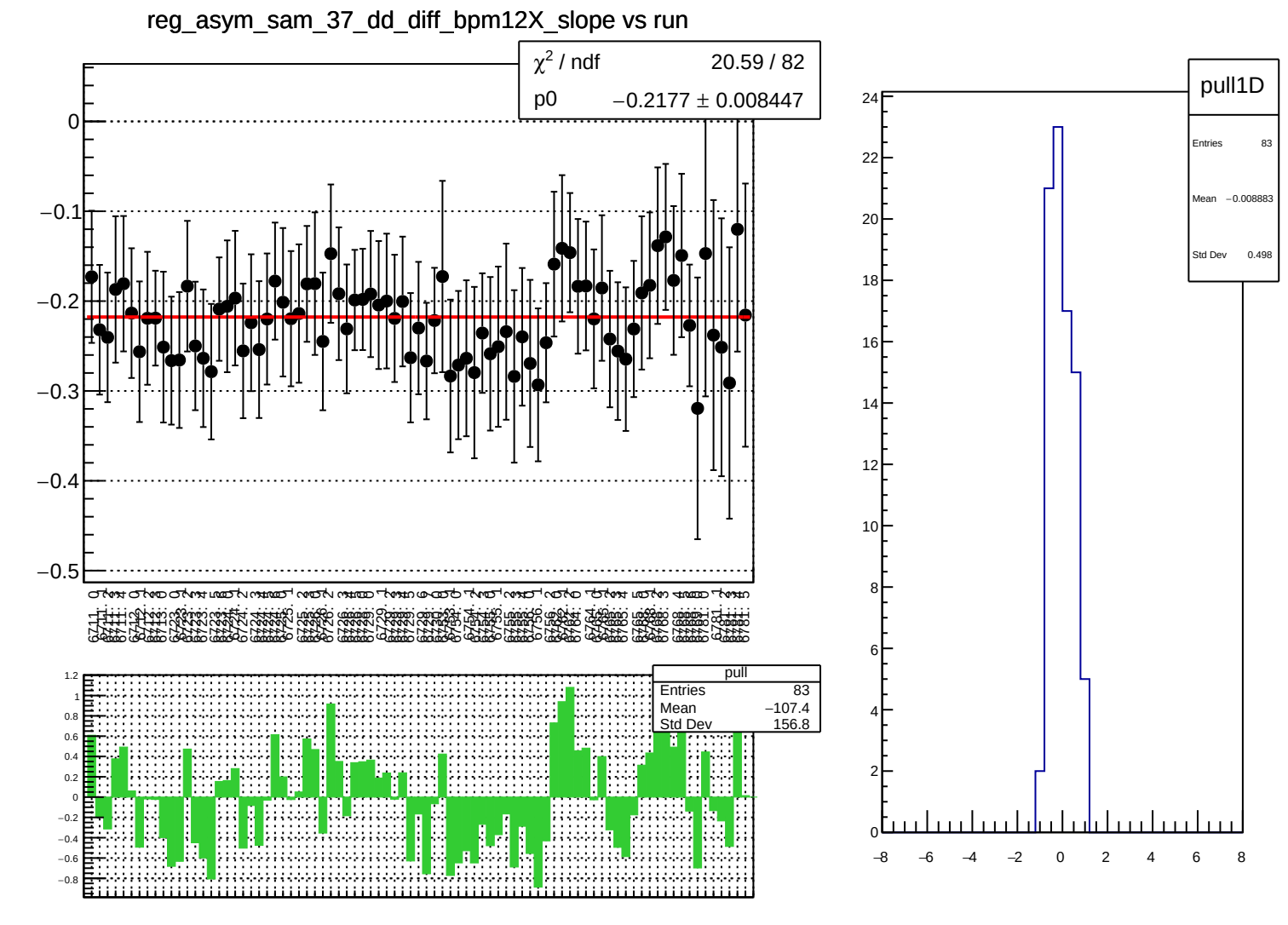

pull1D
Entries 83
Mean −0.3182
Std Dev 2.173

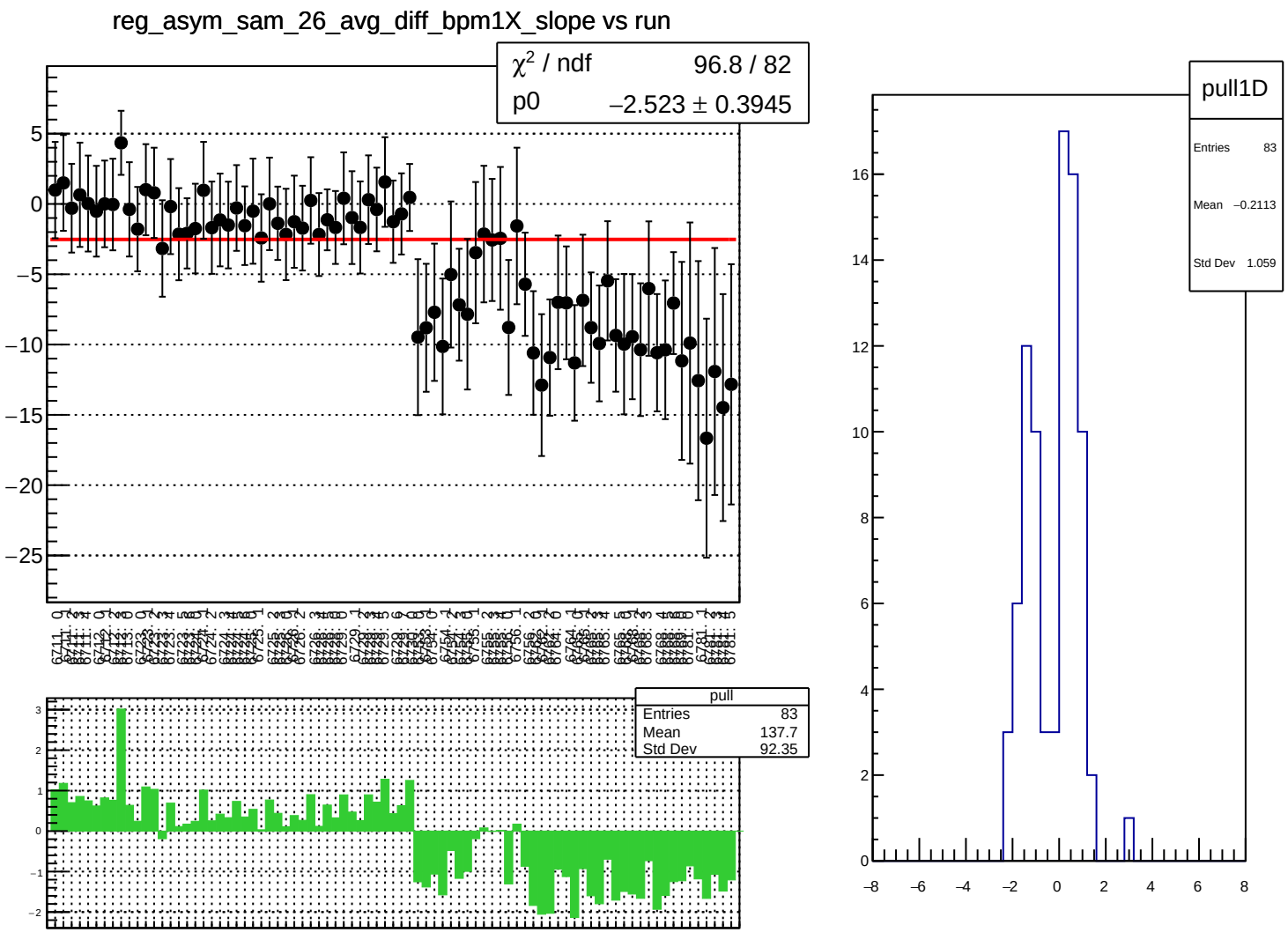

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.41 / 82
p0 −7.123 ± 0.1169
pull
Entries 83
Mean 966
Std Dev 919.9

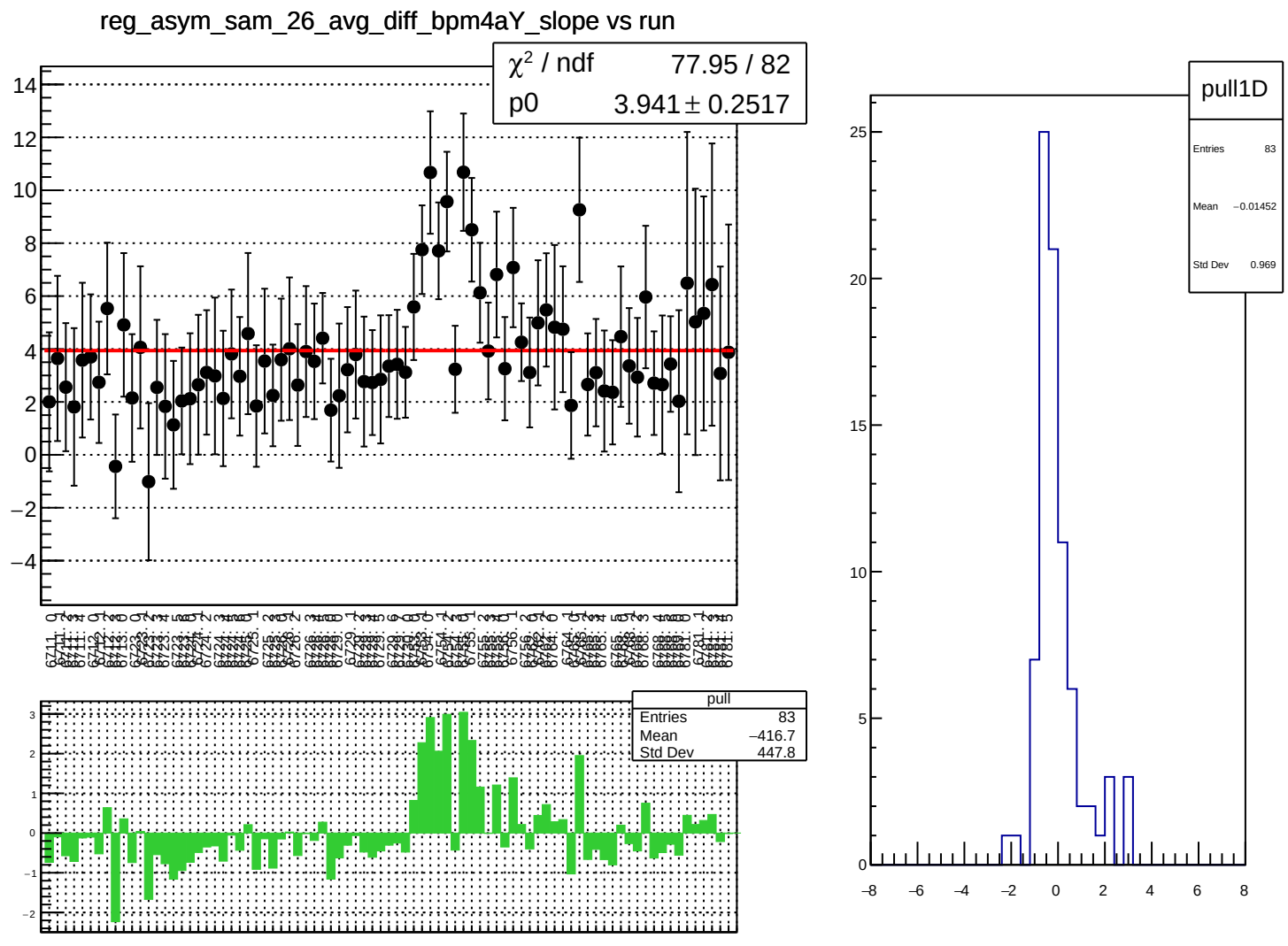

pull1D
Entries 83
Mean −0.01597
Std Dev 0.8876

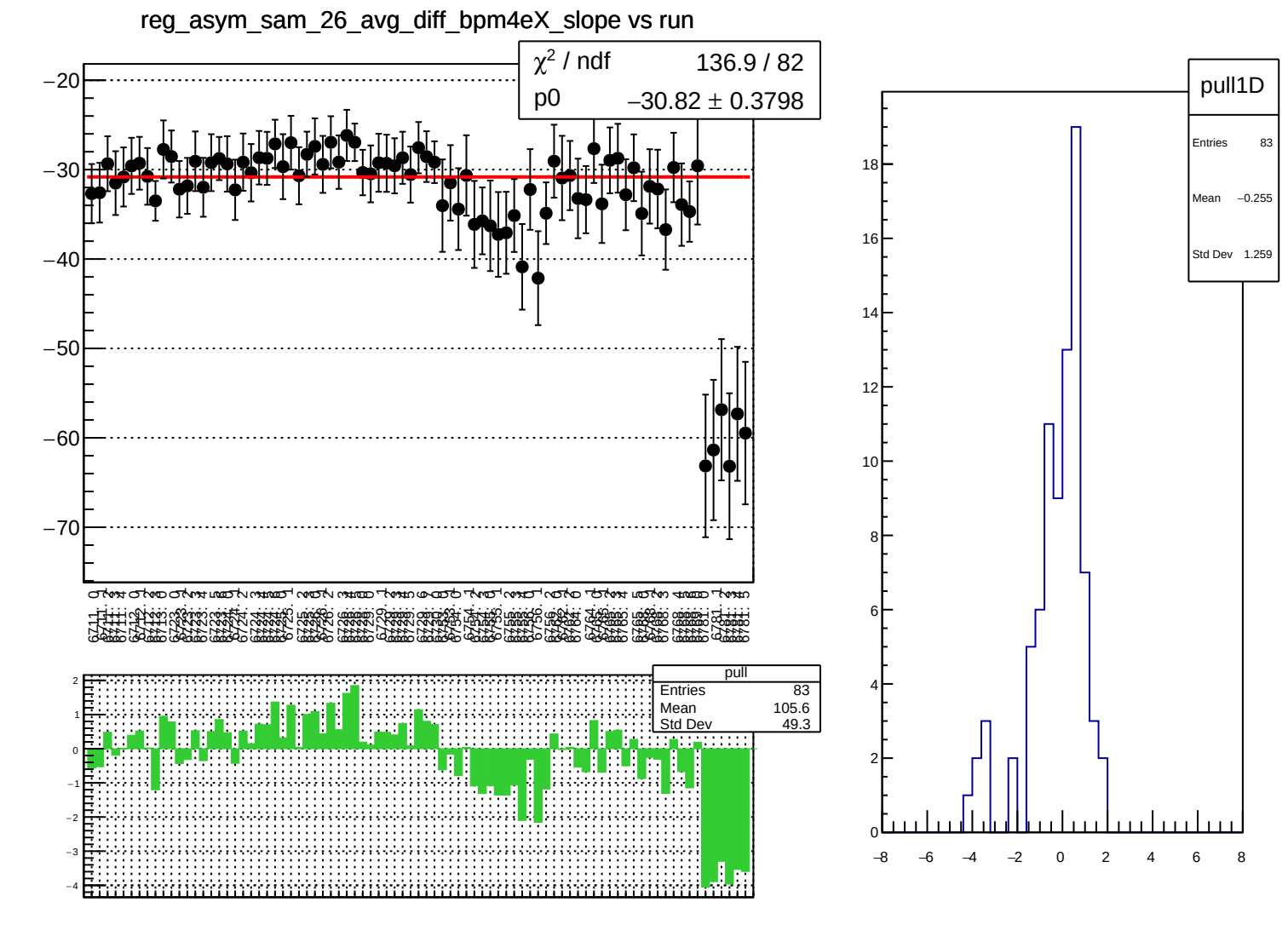

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 195.9 / 82
p0 −4.626 ± 0.1802
pull
Entries 83
Mean −234.9
Std Dev 261.4
pull1D
Entries 83
Mean −0.04065
Std Dev 1.536

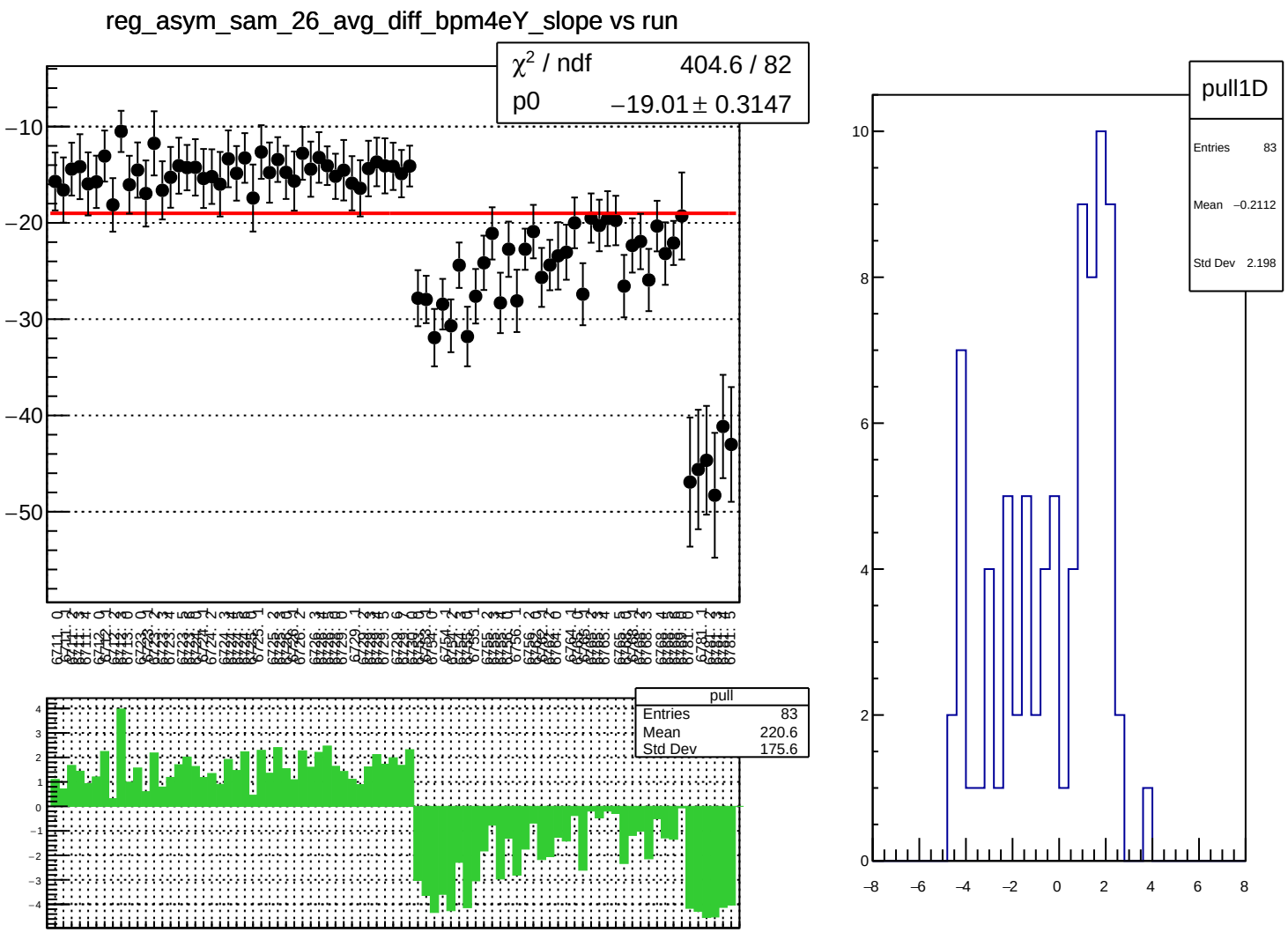

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 91.72 / 82
p0 21.98 ± 0.1471
28
26
24
22
20
18
pull
Entries 83
Mean 1084
Std Dev 1039
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean 0.01788
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

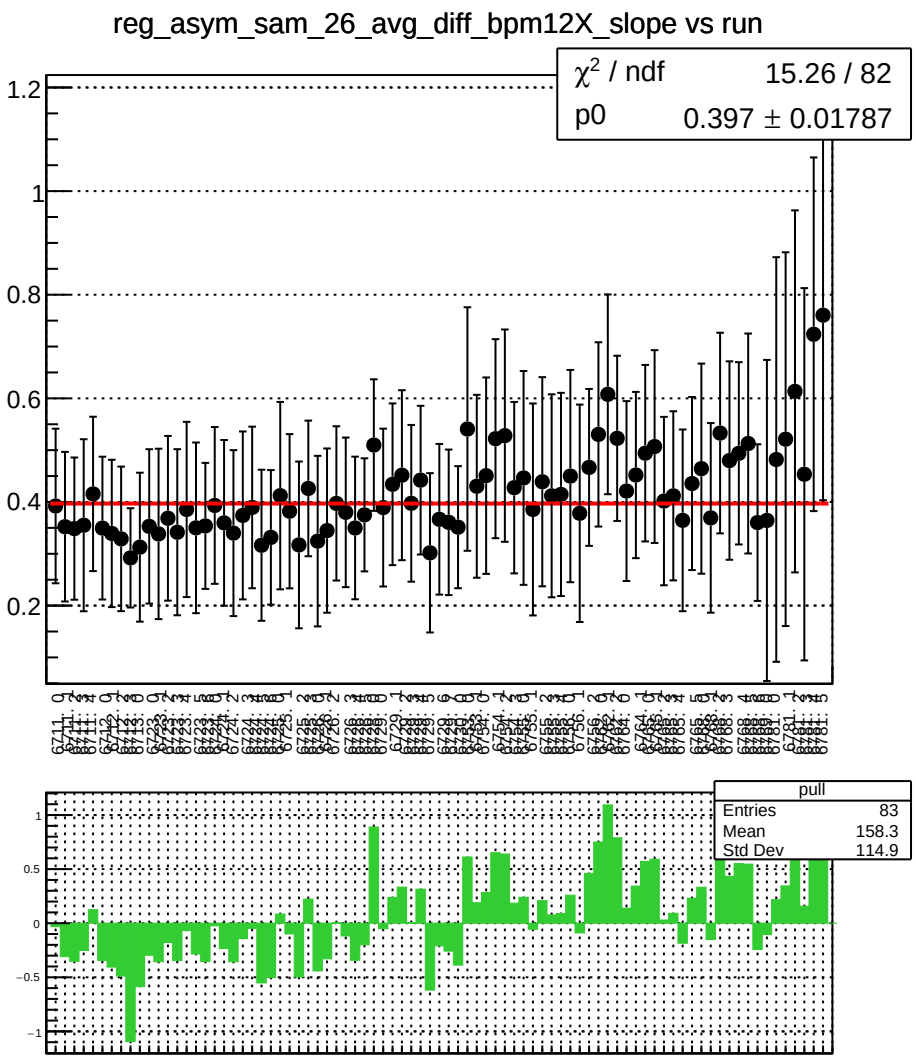

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 20.59 / 82
p0 −0.2177 ± 0.008447
pull
Entries 83
Mean −107.4
Std Dev 156.8
pull1D
Entries 83
Mean −0.008883
Std Dev 0.498

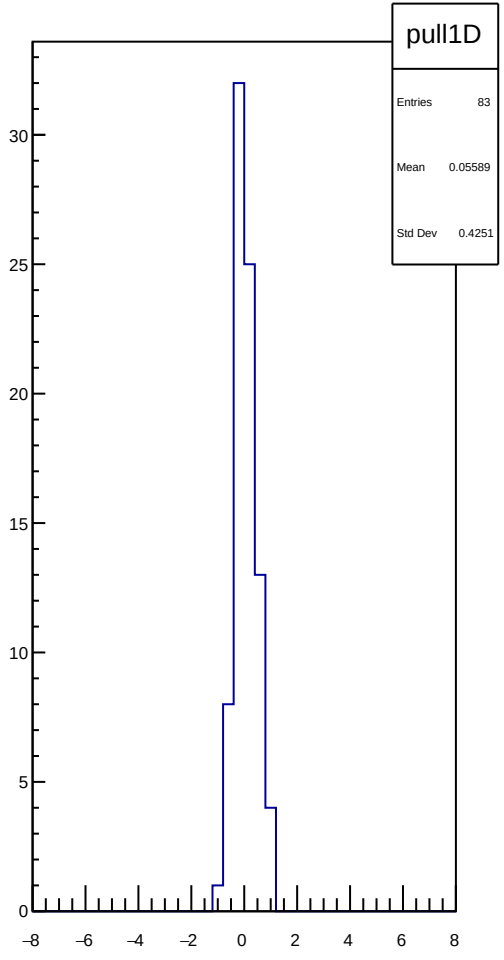

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 96.8 / 82
p0 −2.523 ± 0.3945
pull
Entries 83
Mean 137.7
Std Dev 92.35
pull1D
Entries 83
Mean −0.2113
Std Dev 1.059

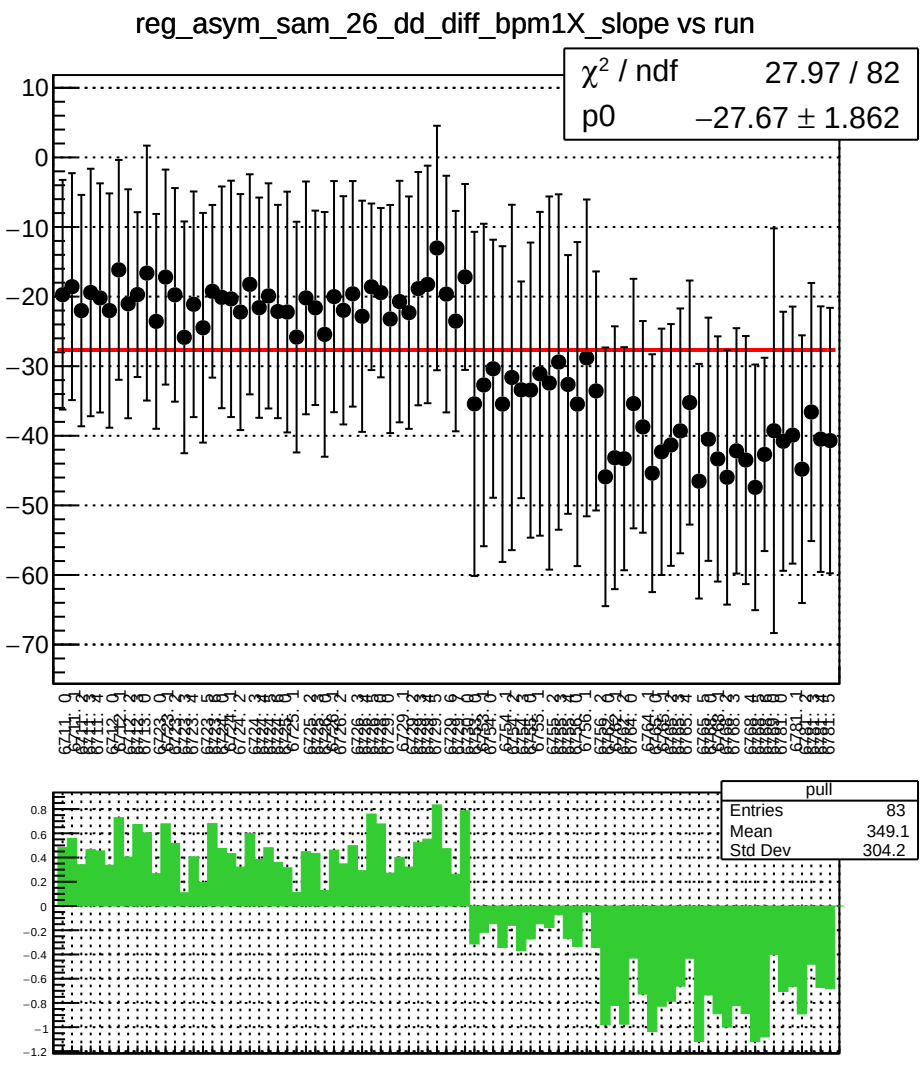

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 77.95 / 82
p0 3.941 ± 0.2517
pull
Entries 83
Mean −416.7
Std Dev 447.8
pull1D
Entries 83
Mean −0.01452
Std Dev 0.969

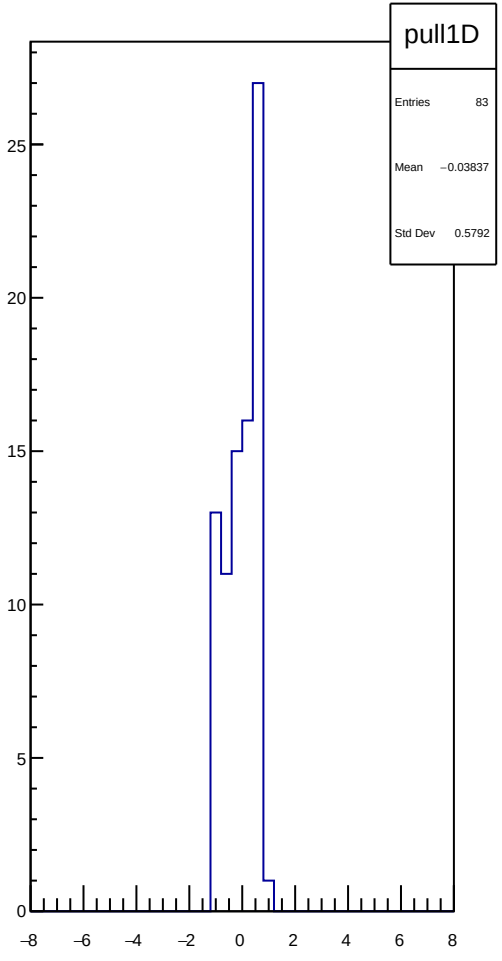

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 136.9 / 82
p0 −30.82 ± 0.3798
pull
Entries 83
Mean 105.6
Std Dev 49.3
pull1D
Entries 83
Mean −0.255
Std Dev 1.259

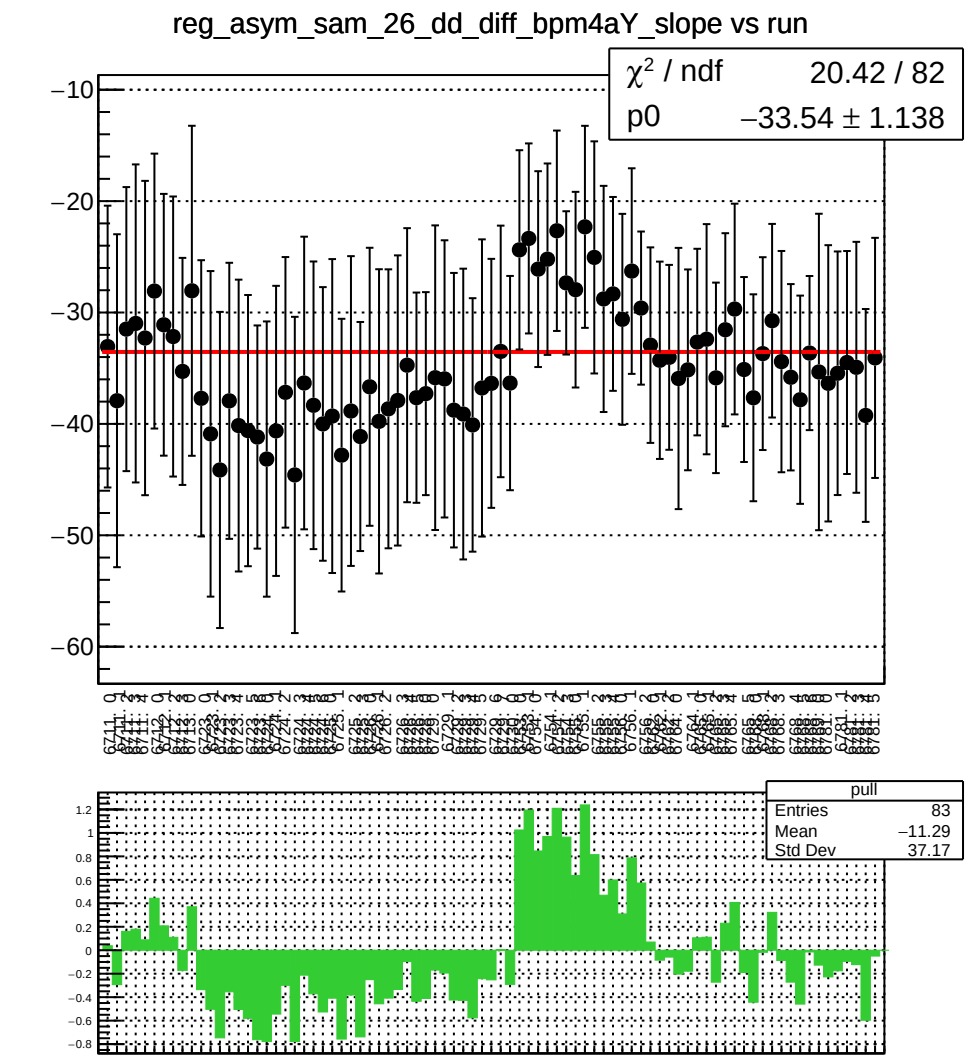

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 404.6 / 82
p0 −19.01 ± 0.3147
−10
−20
−30
−40
−50
pull
Entries 83
Mean 220.6
Std Dev 175.6
pull1D
Entries 83
Mean −0.2112
Std Dev 2.198

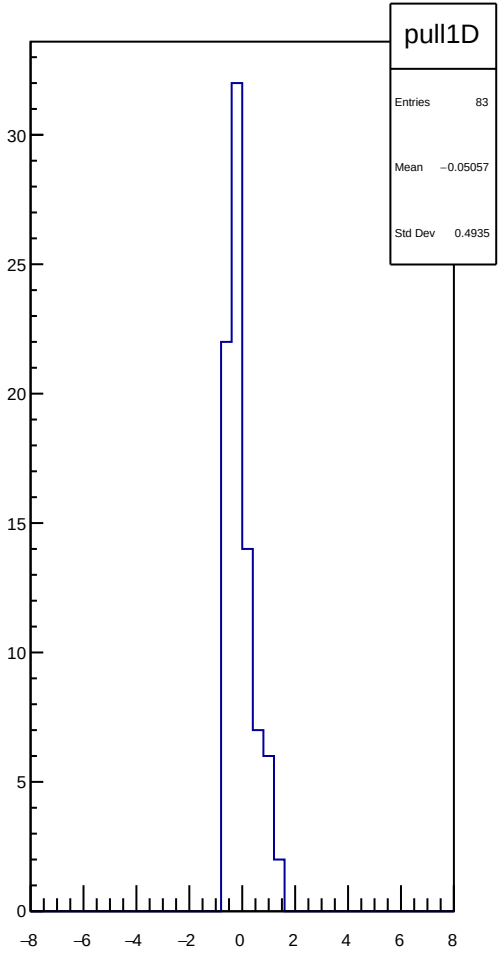

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 15.26 / 82
p0 0.397 ± 0.01787
pull
Entries 83
Mean 158.3
Std Dev 114.9

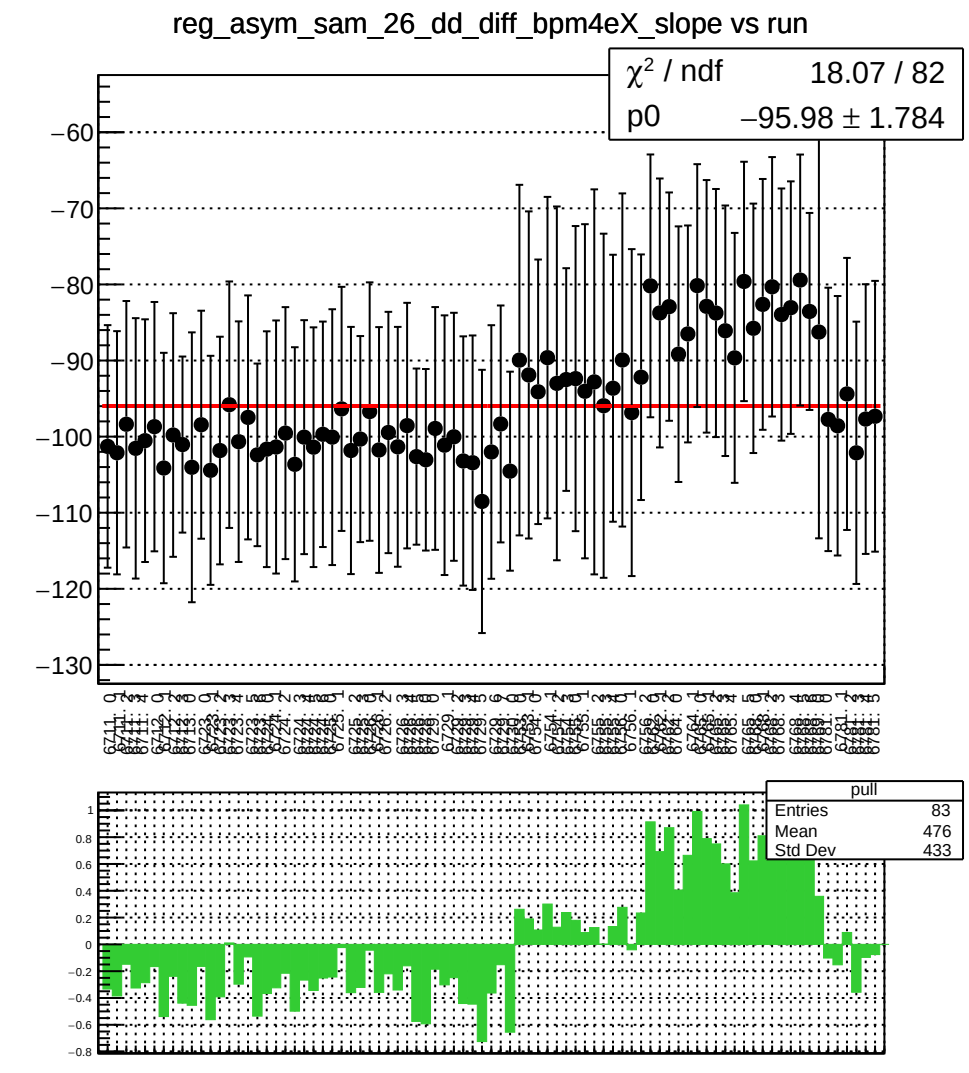

pull1D
Entries 83
Mean 0.05589
Std Dev 0.4251

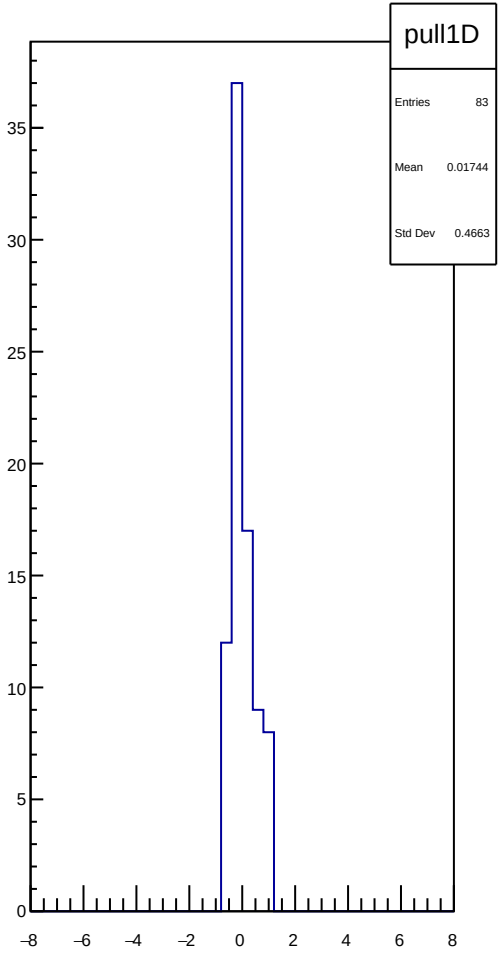

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 27.97 / 82
p0 −27.67 ± 1.862
pull
Entries 83
Mean 349.1
Std Dev 304.2

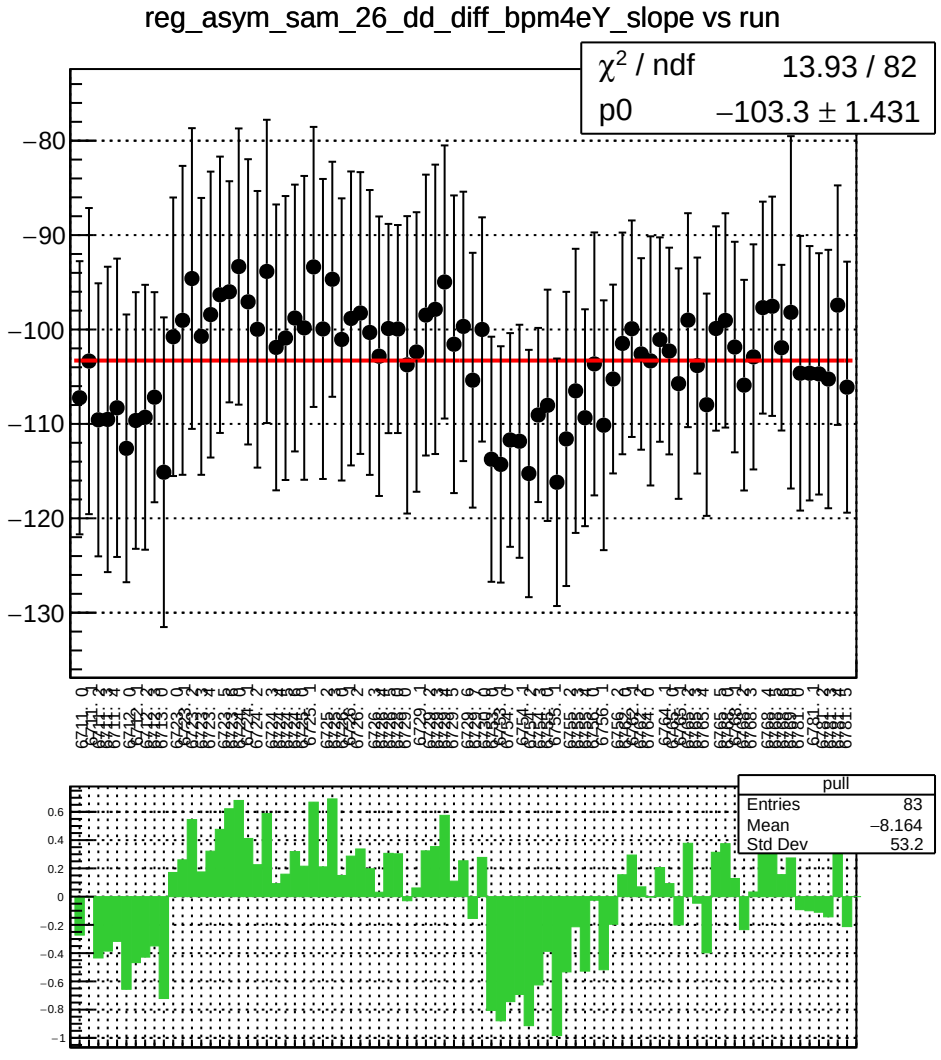

pull1D
Entries 83
Mean −0.03837
Std Dev 0.5792

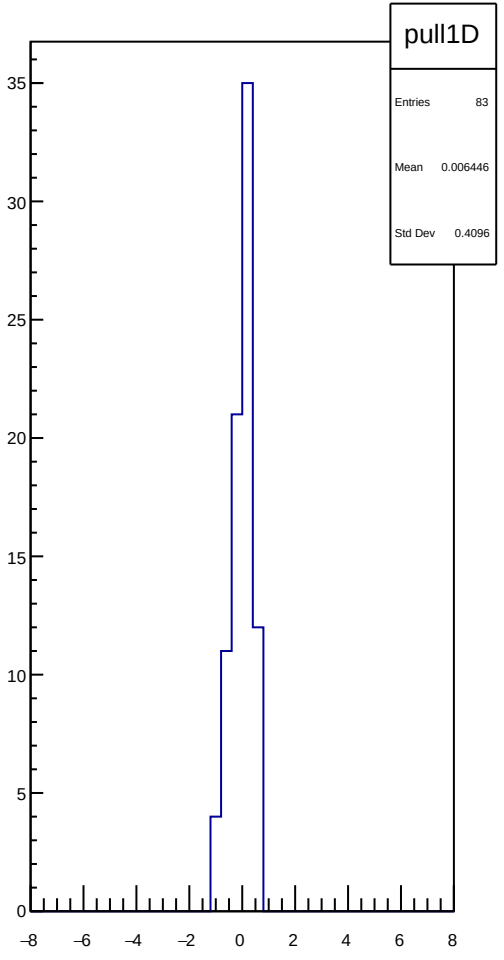

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.42 / 82
p0 −33.54 ± 1.138
pull
Entries 83
Mean −11.29
Std Dev 37.17

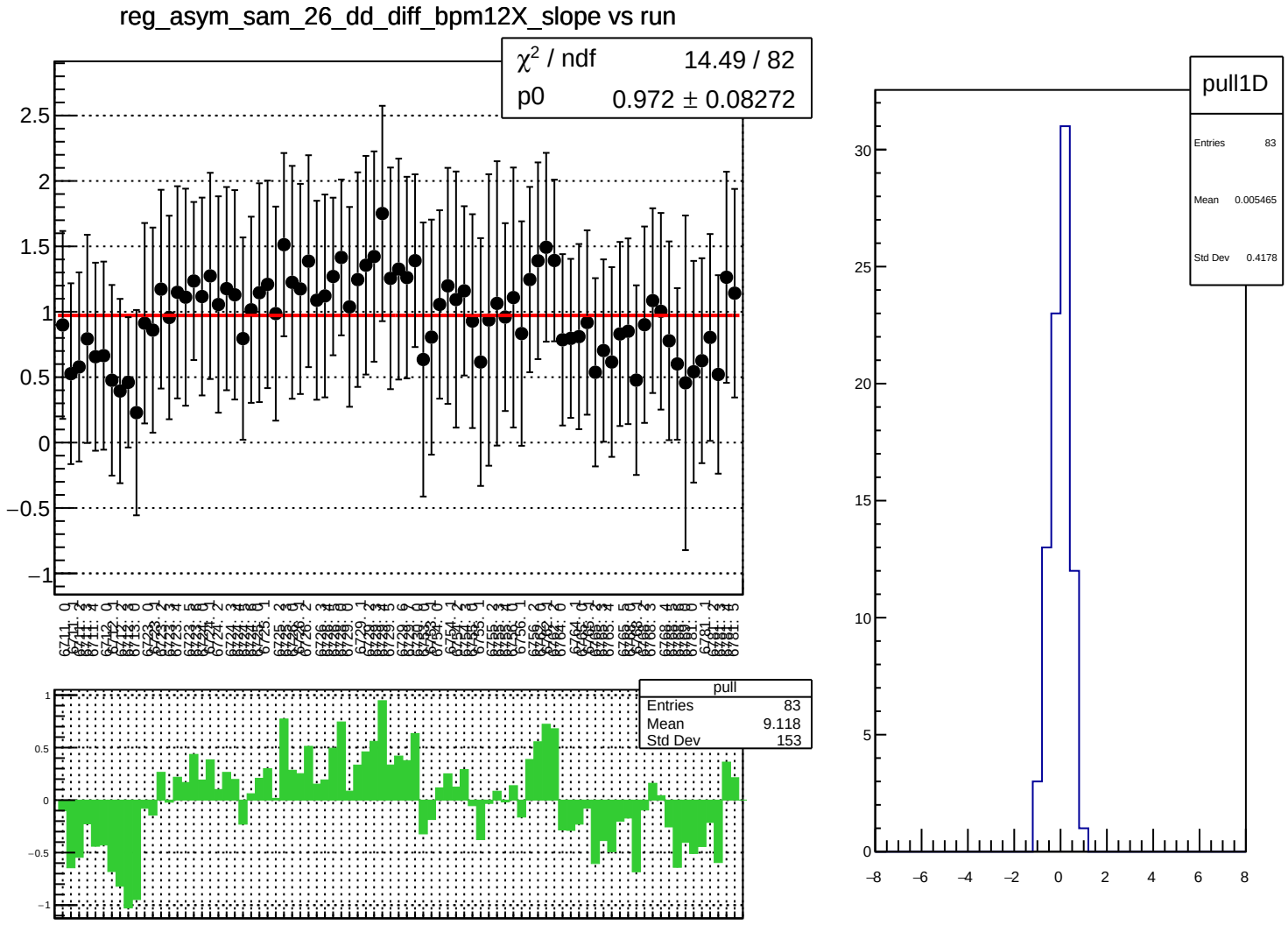

pull1D
Entries 83
Mean −0.05057
Std Dev 0.4935

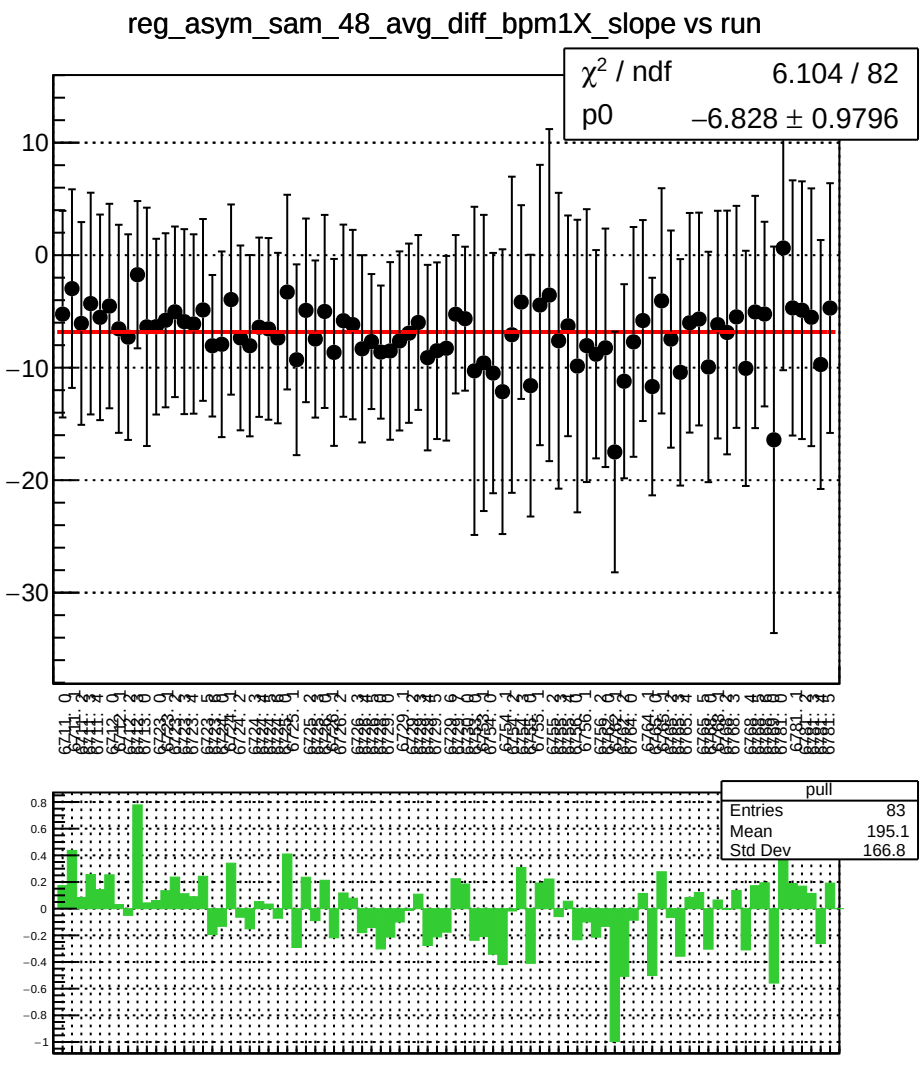

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.07 / 82
p0 −95.98 ± 1.784
pull
Entries 83
Mean 476
Std Dev 433

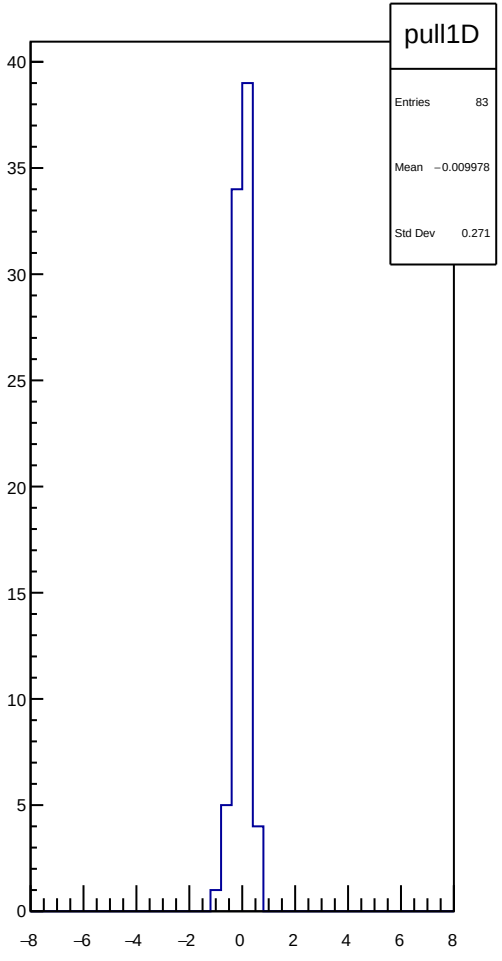

pull1D
Entries 83
Mean 0.01744
Std Dev 0.4663

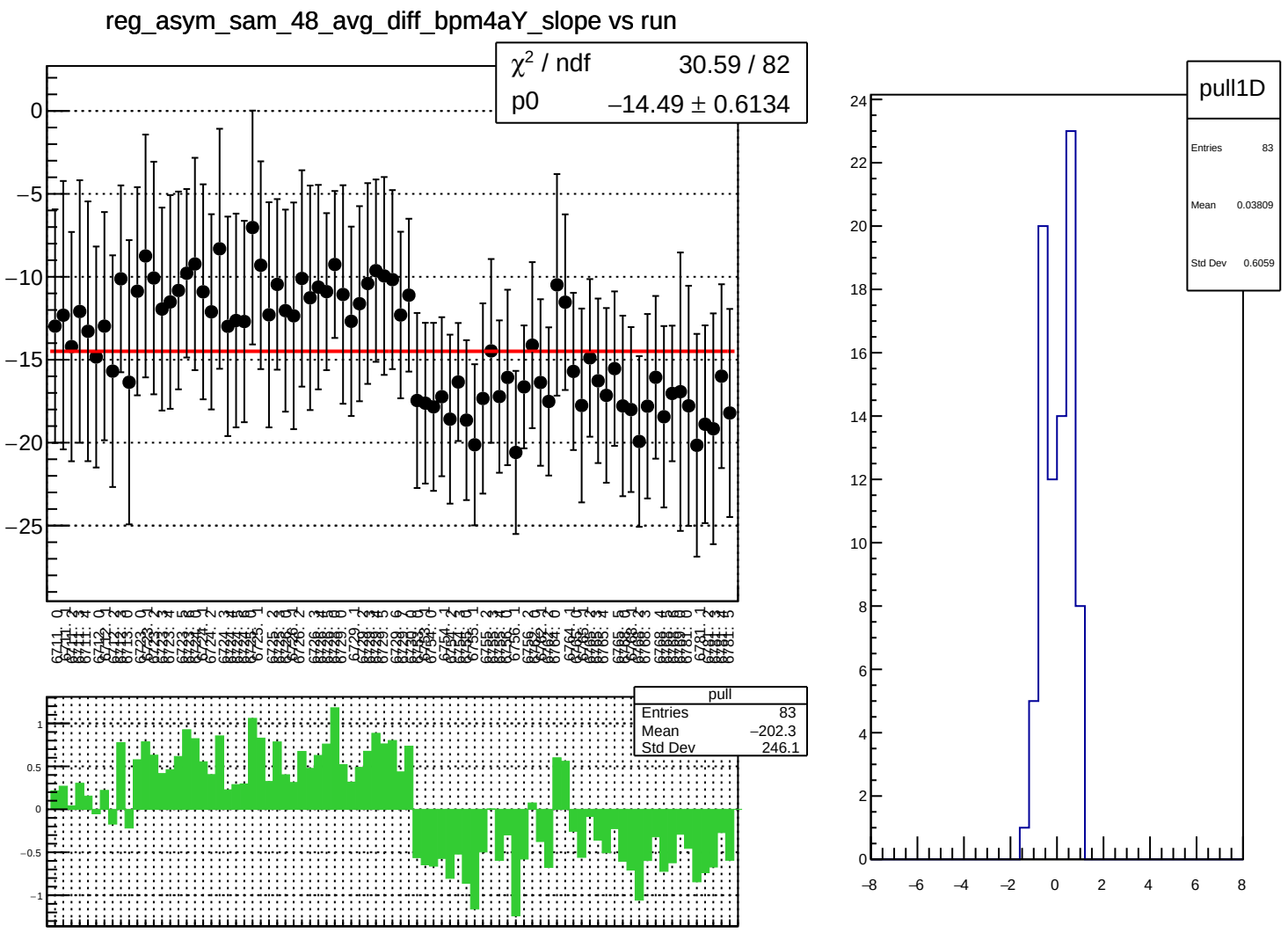

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.93 / 82
p0 −103.3 ± 1.431
pull
Entries 83
Mean −8.164
Std Dev 53.2

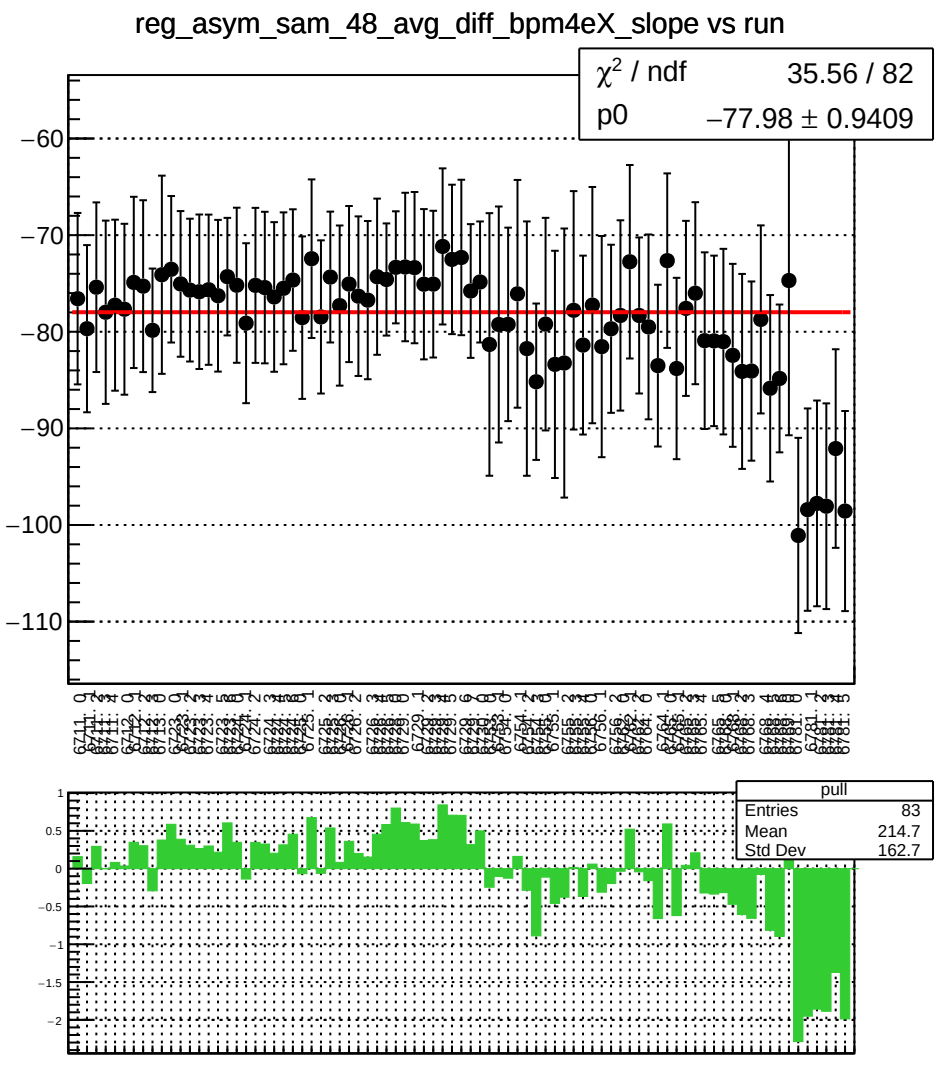

pull1D
Entries 83
Mean 0.006446
Std Dev 0.4096

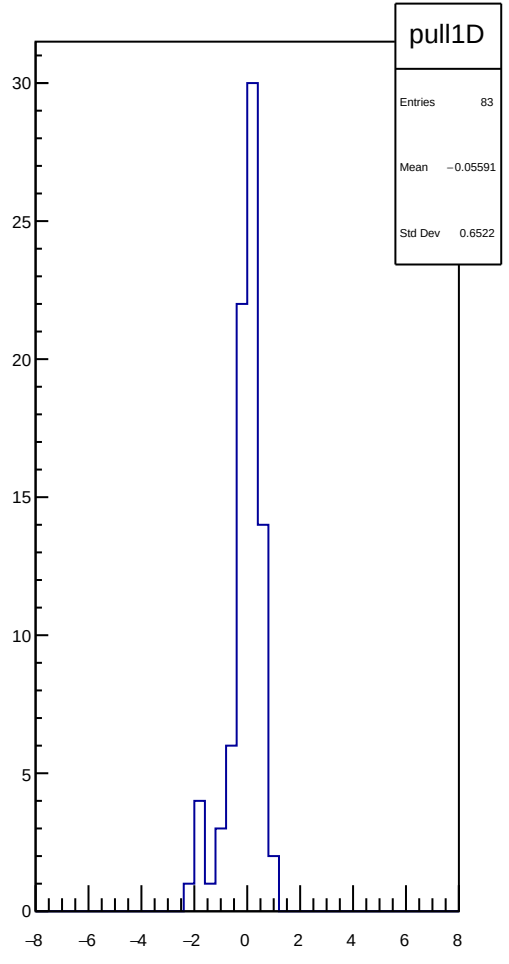

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 14.49 / 82
p0 0.972 ± 0.08272
pull
Entries 83
Mean 9.118
Std Dev 153
pull1D
Entries 83
Mean 0.005465
Std Dev 0.4178

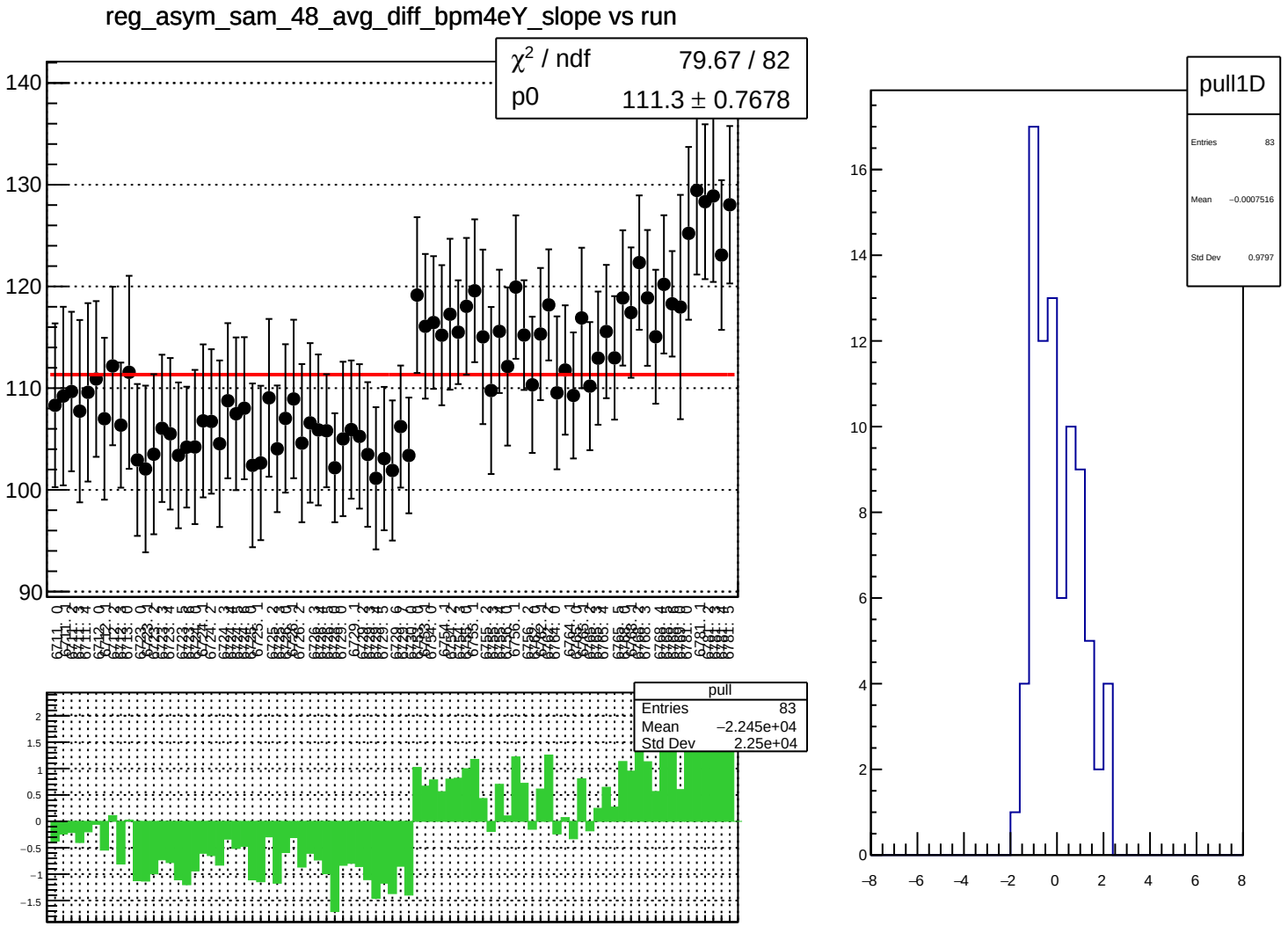

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 6.104 / 82
p0 −6.828 ± 0.9796
pull
Entries 83
Mean 195.1
Std Dev 166.8

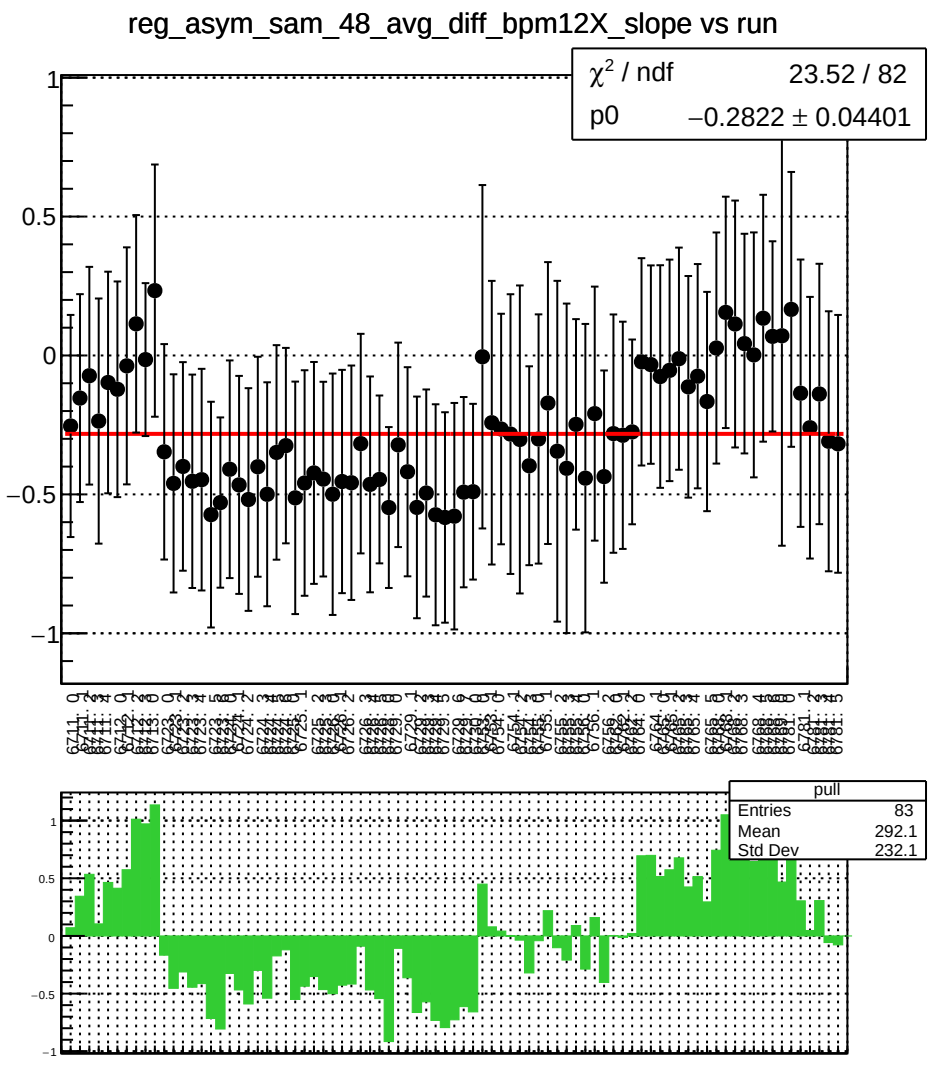

pull1D
Entries 83
Mean −0.009978
Std Dev 0.271

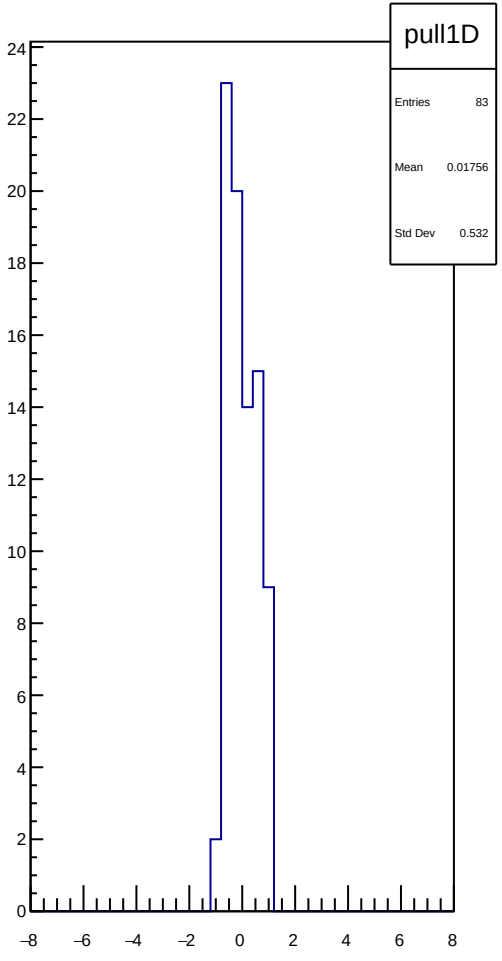

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.59 / 82
p0 −14.49 ± 0.6134
pull
Entries 83
Mean −202.3
Std Dev 246.1
pull1D
Entries 83
Mean 0.03809
Std Dev 0.6059

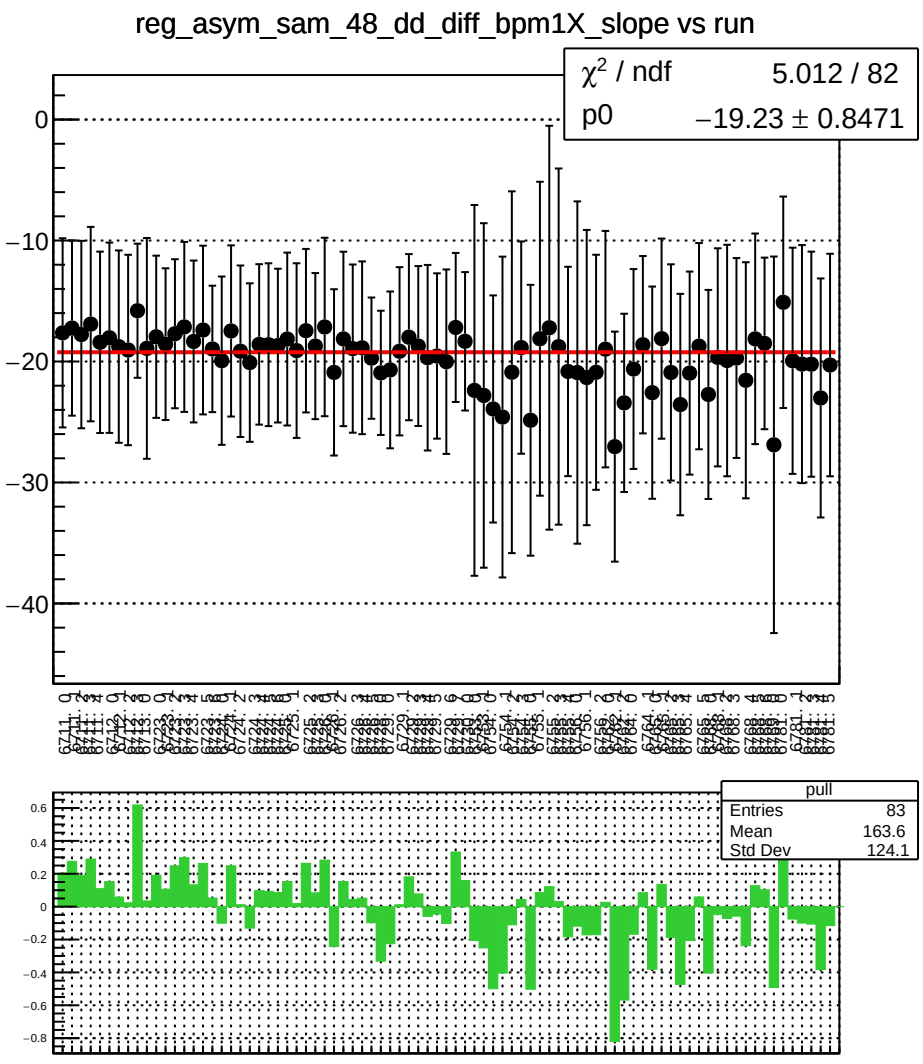

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.56 / 82
p0 −77.98 ± 0.9409
−60
−70
−80
−90
−100
−110
pull
Entries 83
Mean 214.7
Std Dev 162.7
1
0.5
0
−0.5
−1
−1.5
−2

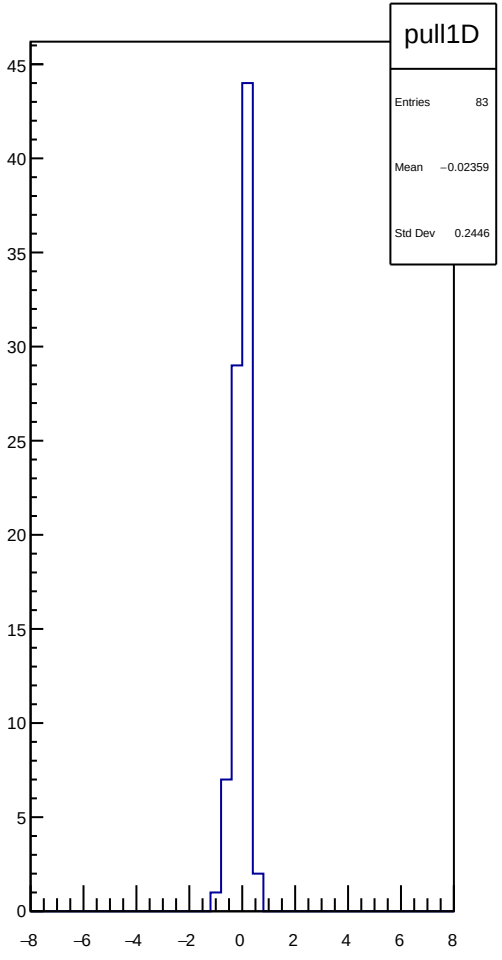

pull1D
Entries 83
Mean −0.05591
Std Dev 0.6522
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

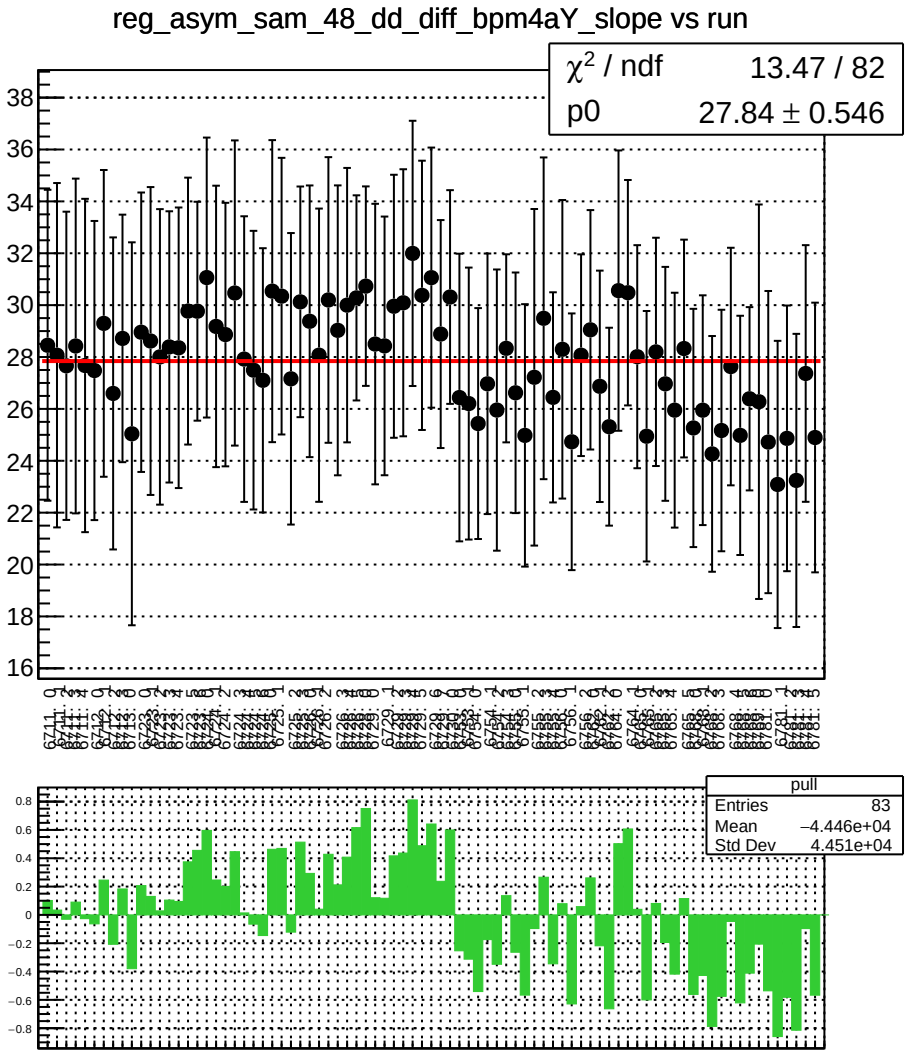

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.67 / 82
p0 111.3 ± 0.7678
140
130
120
110
100
90
pull
Entries 83
Mean −2.245e+04
Std Dev 2.25e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean −0.0007516
Std Dev 0.9797
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

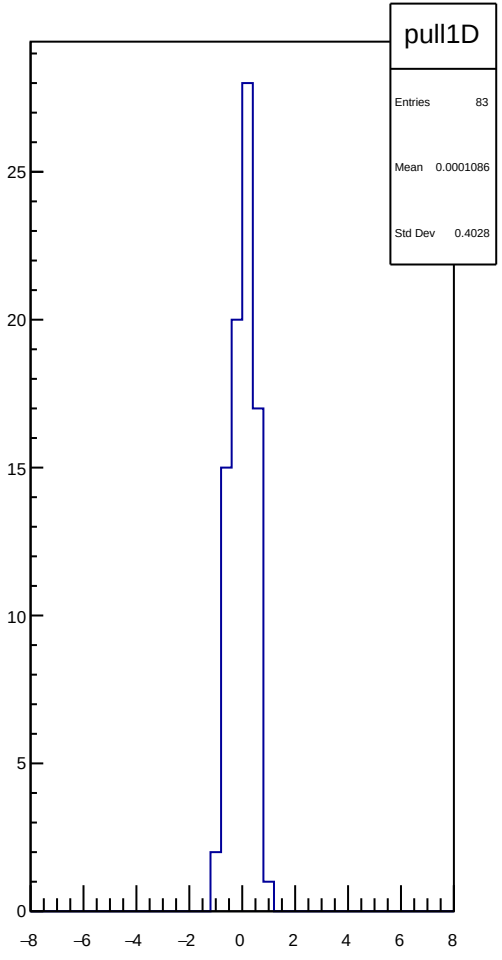

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 23.52 / 82
p0 −0.2822 ± 0.04401
pull
Entries 83
Mean 292.1
Std Dev 232.1

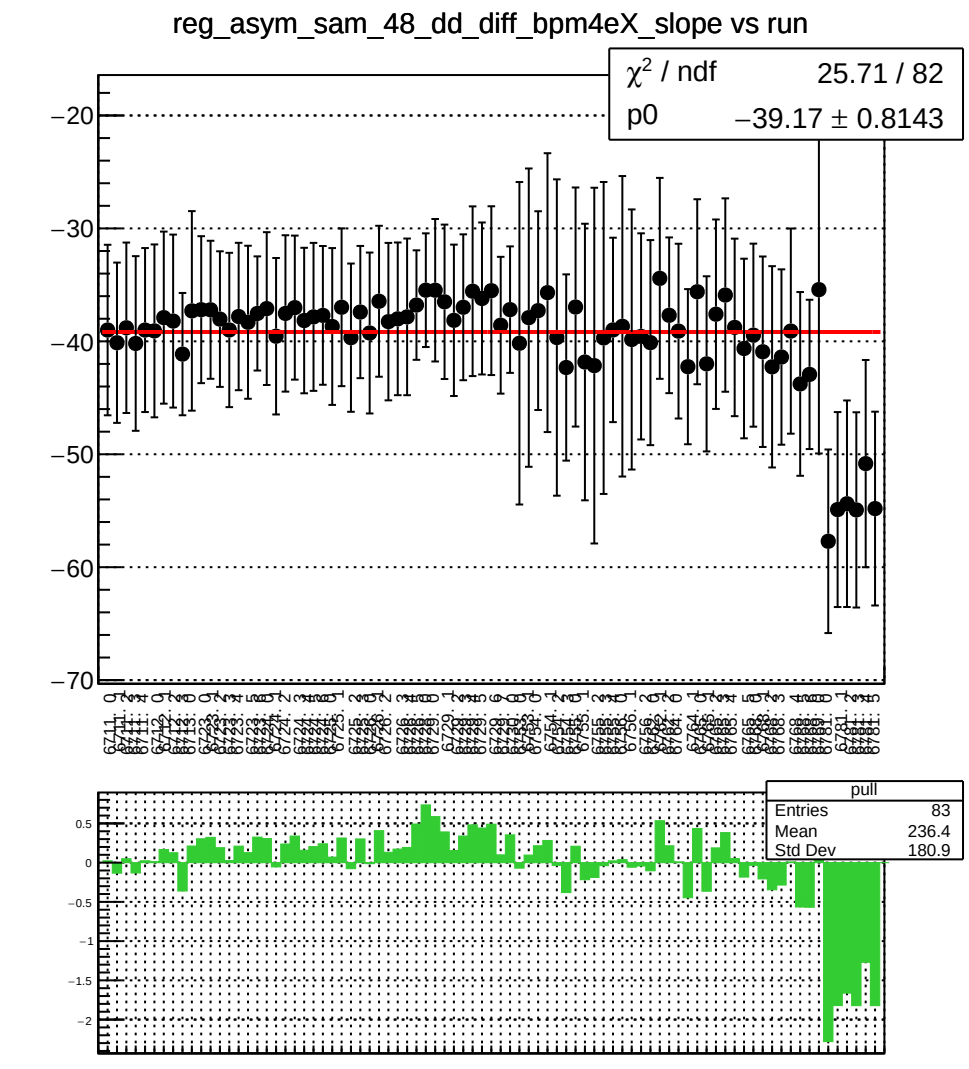

pull1D
Entries 83
Mean 0.01756
Std Dev 0.532

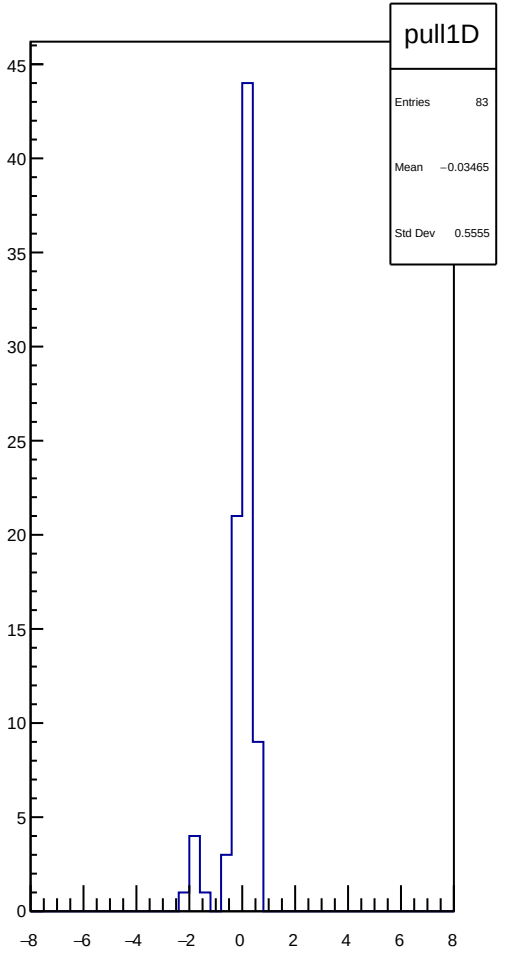

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 5.012 / 82
p0 −19.23 ± 0.8471
pull
Entries 83
Mean 163.6
Std Dev 124.1

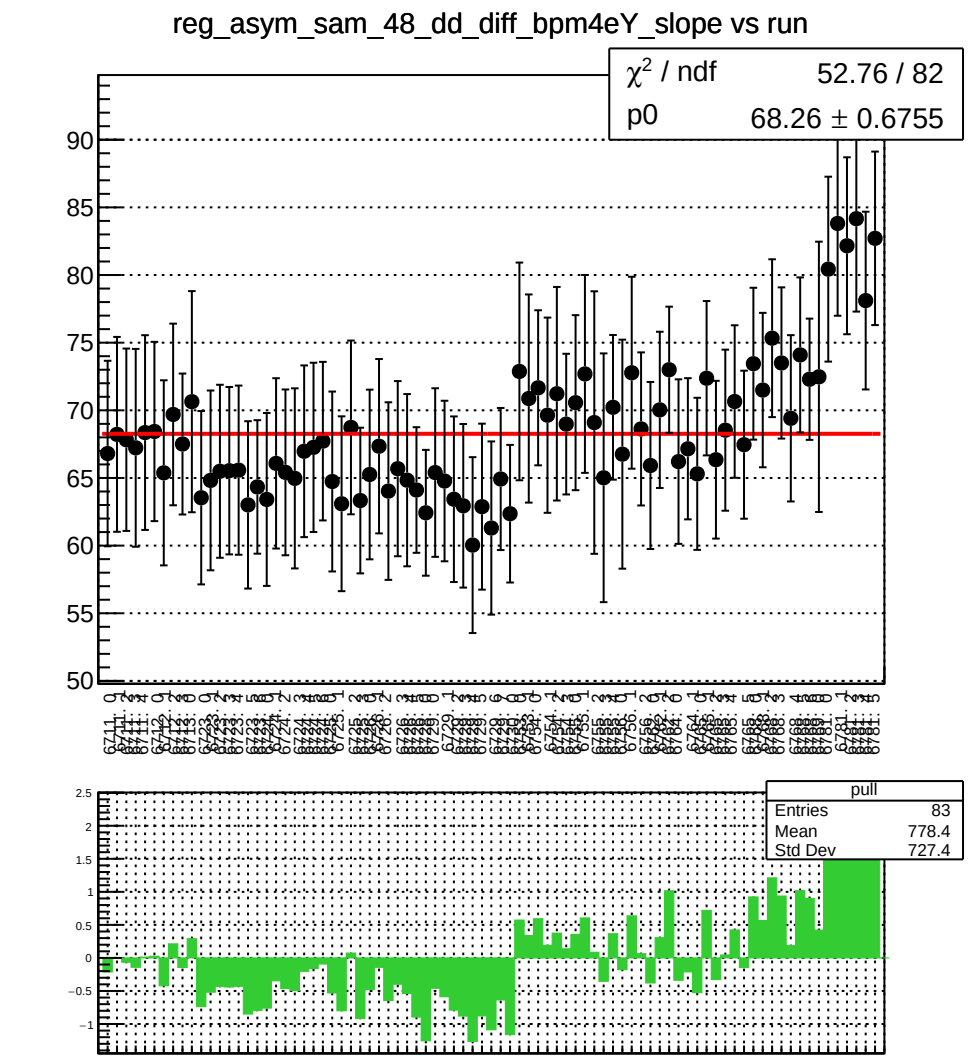

pull1D
Entries 83
Mean −0.02359
Std Dev 0.2446

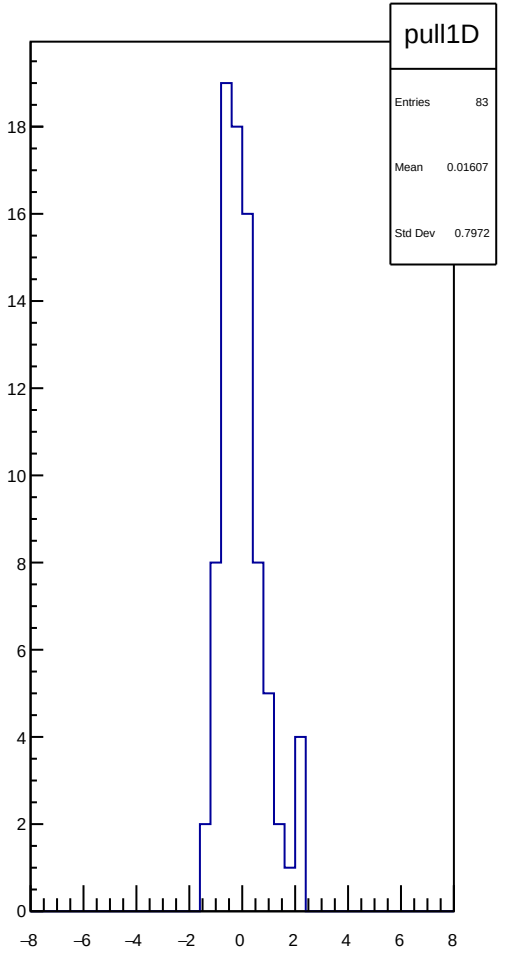

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.47 / 82
p0 27.84 ± 0.546
pull
Entries 83
Mean −4.446e+04
Std Dev 4.451e+04

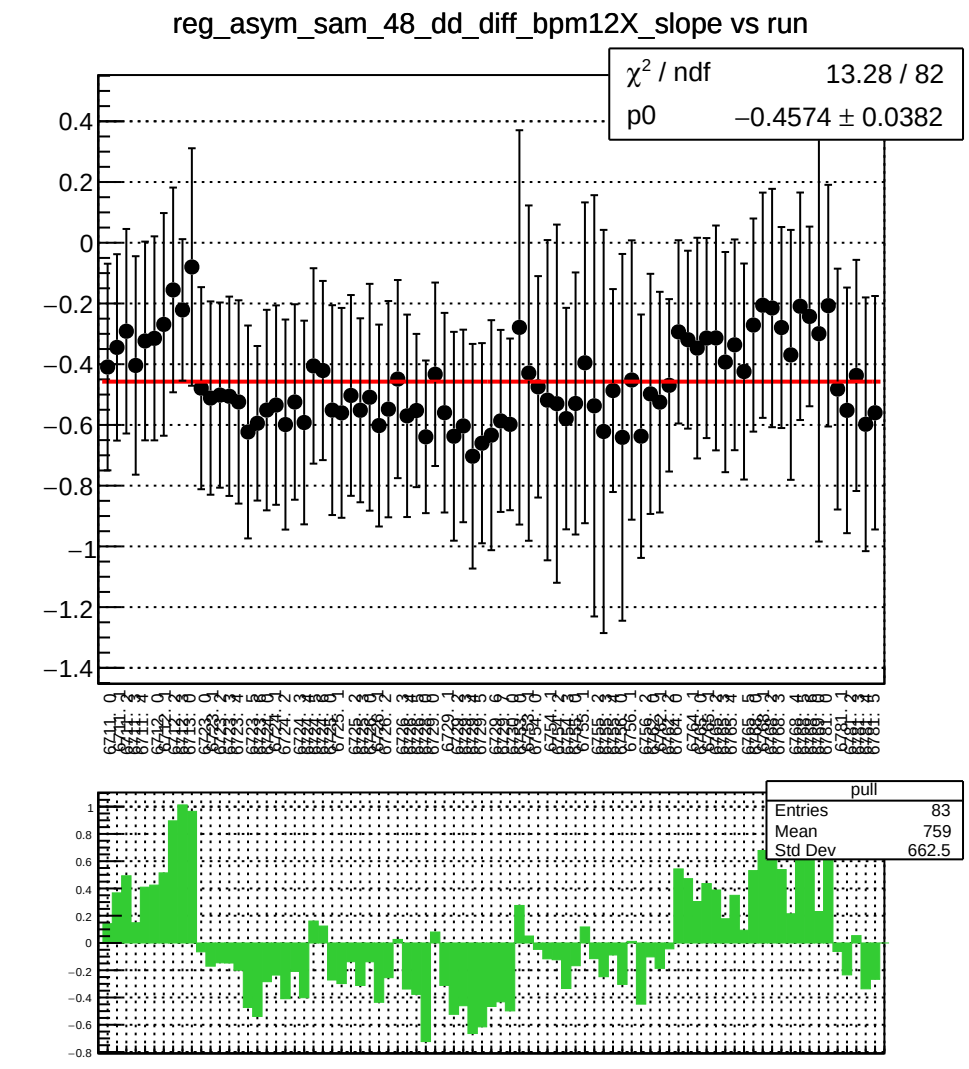

pull1D
Entries 83
Mean 0.0001086
Std Dev 0.4028

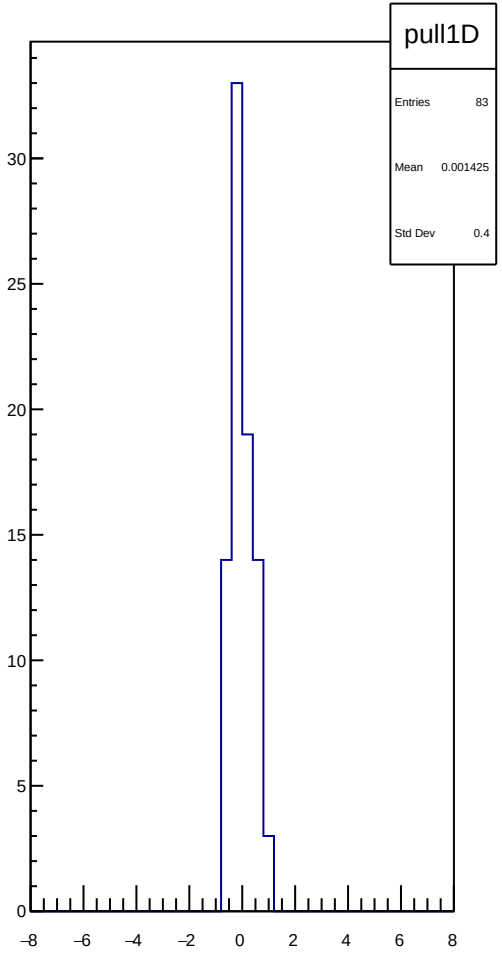

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.71 / 82
p0 −39.17 ± 0.8143
pull
Entries 83
Mean 236.4
Std Dev 180.9

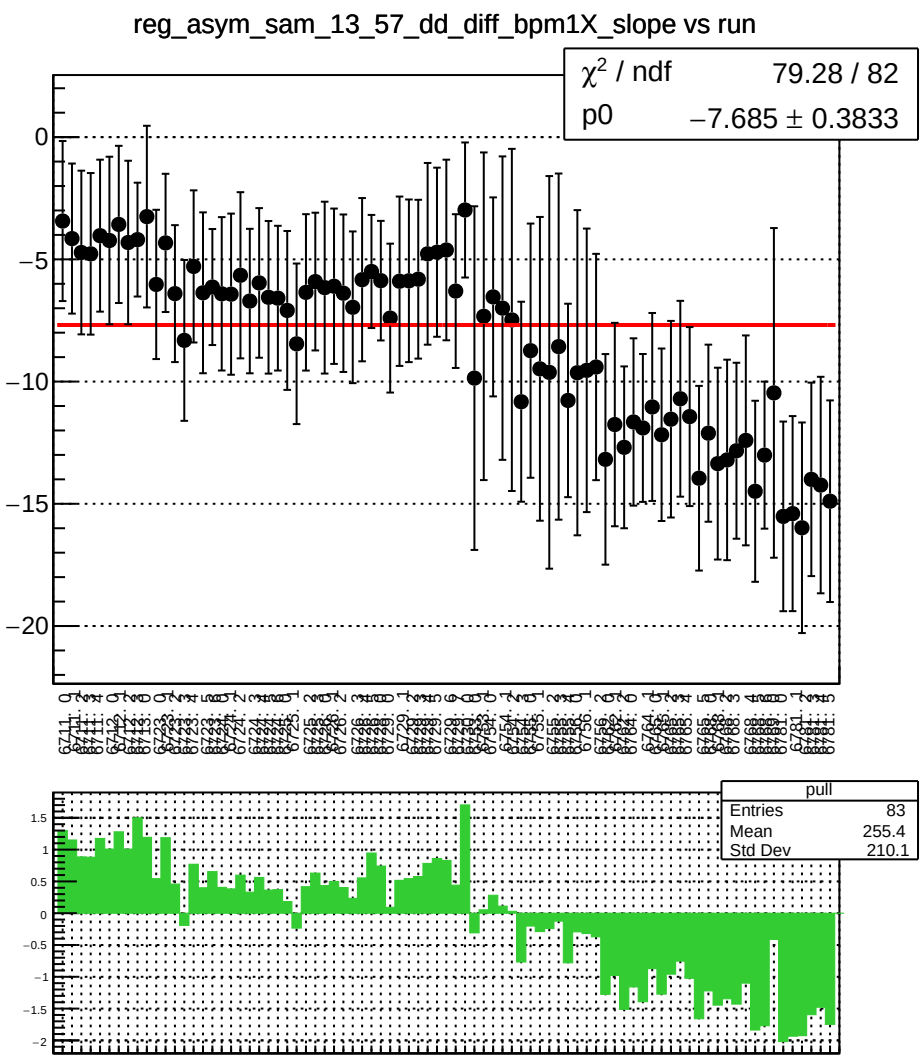

pull1D
Entries 83
Mean −0.03465
Std Dev 0.5555

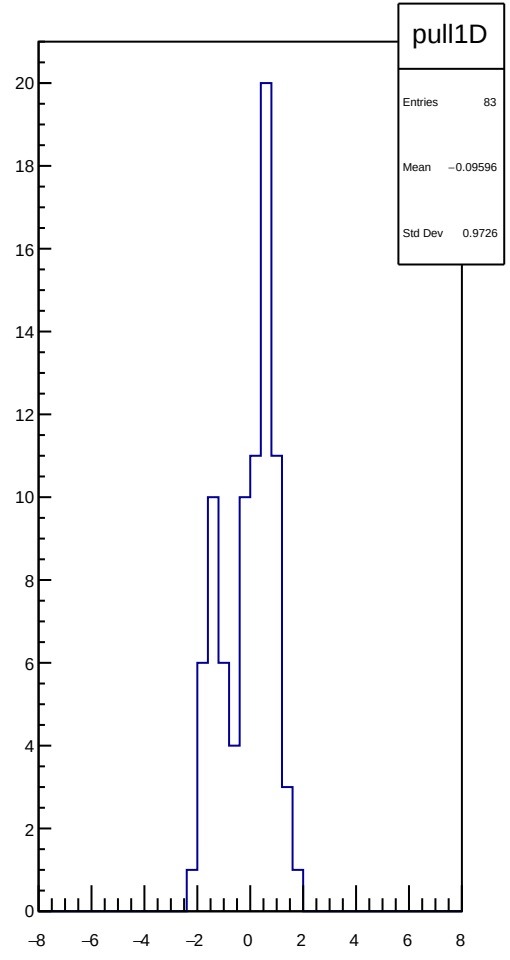

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.76 / 82
p0 68.26 ± 0.6755
pull
Entries 83
Mean 778.4
Std Dev 727.4

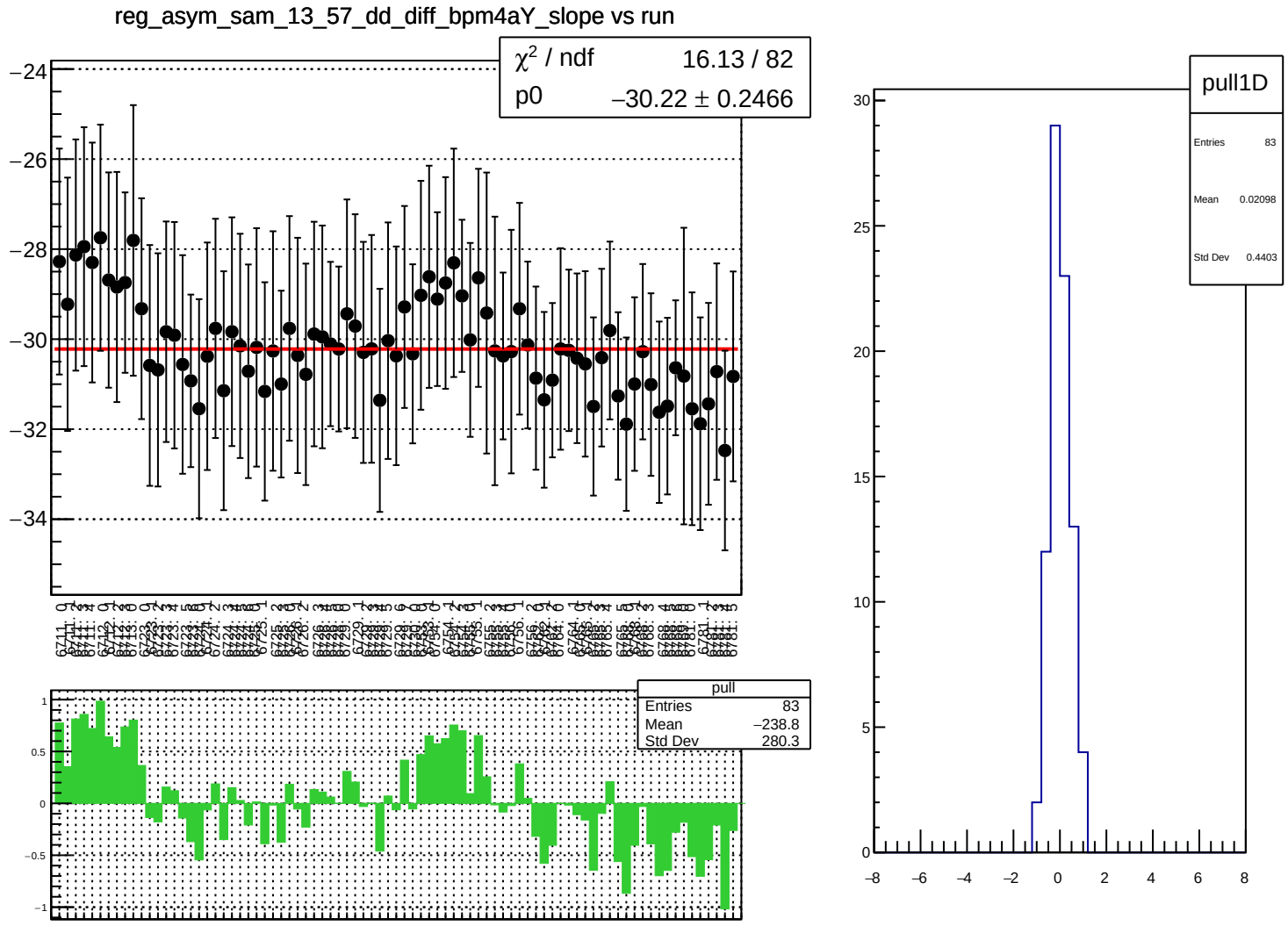

pull1D
Entries 83
Mean 0.01607
Std Dev 0.7972

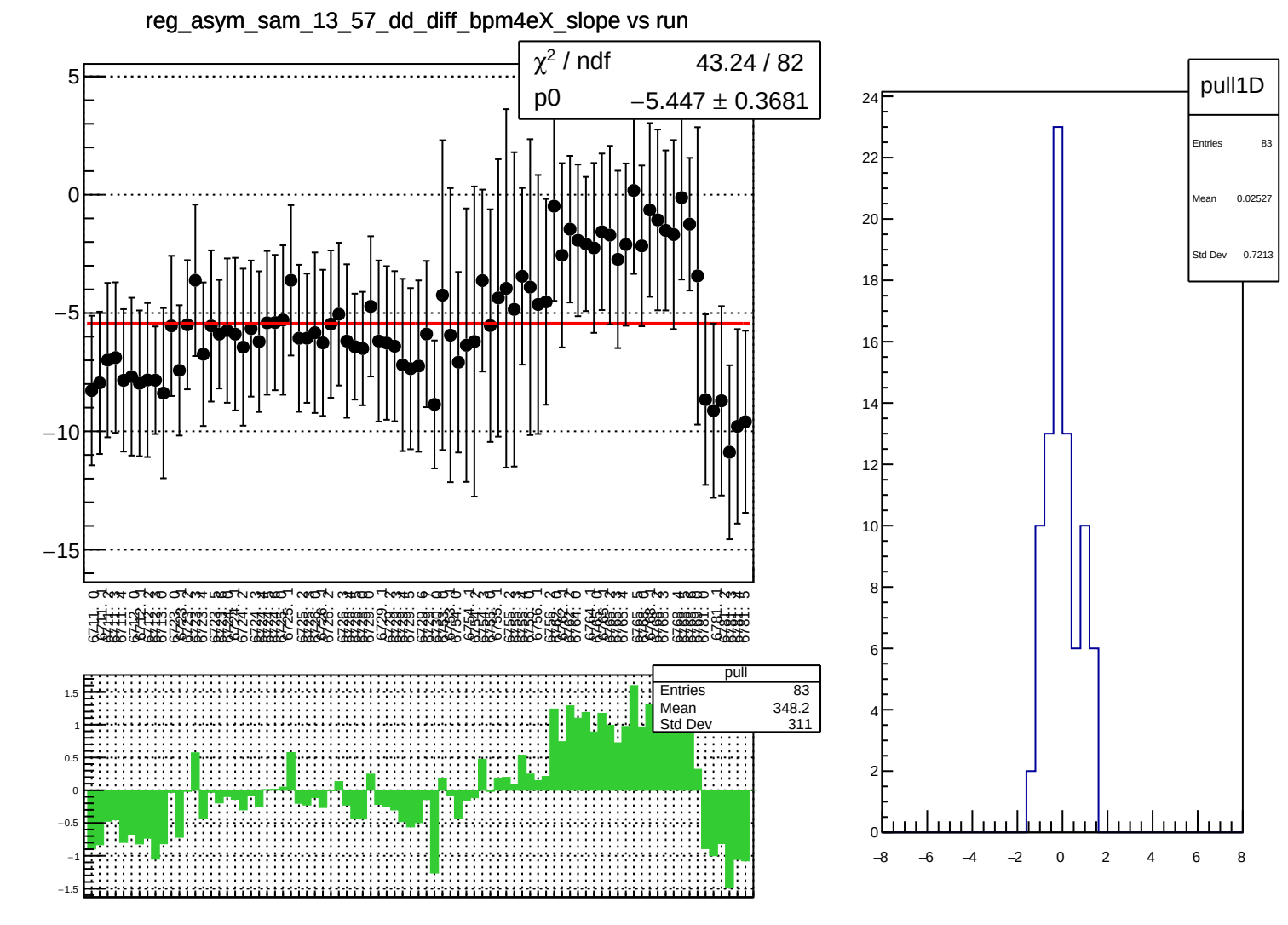

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 13.28 / 82
p0 −0.4574 ± 0.0382
pull
Entries 83
Mean 759
Std Dev 662.5

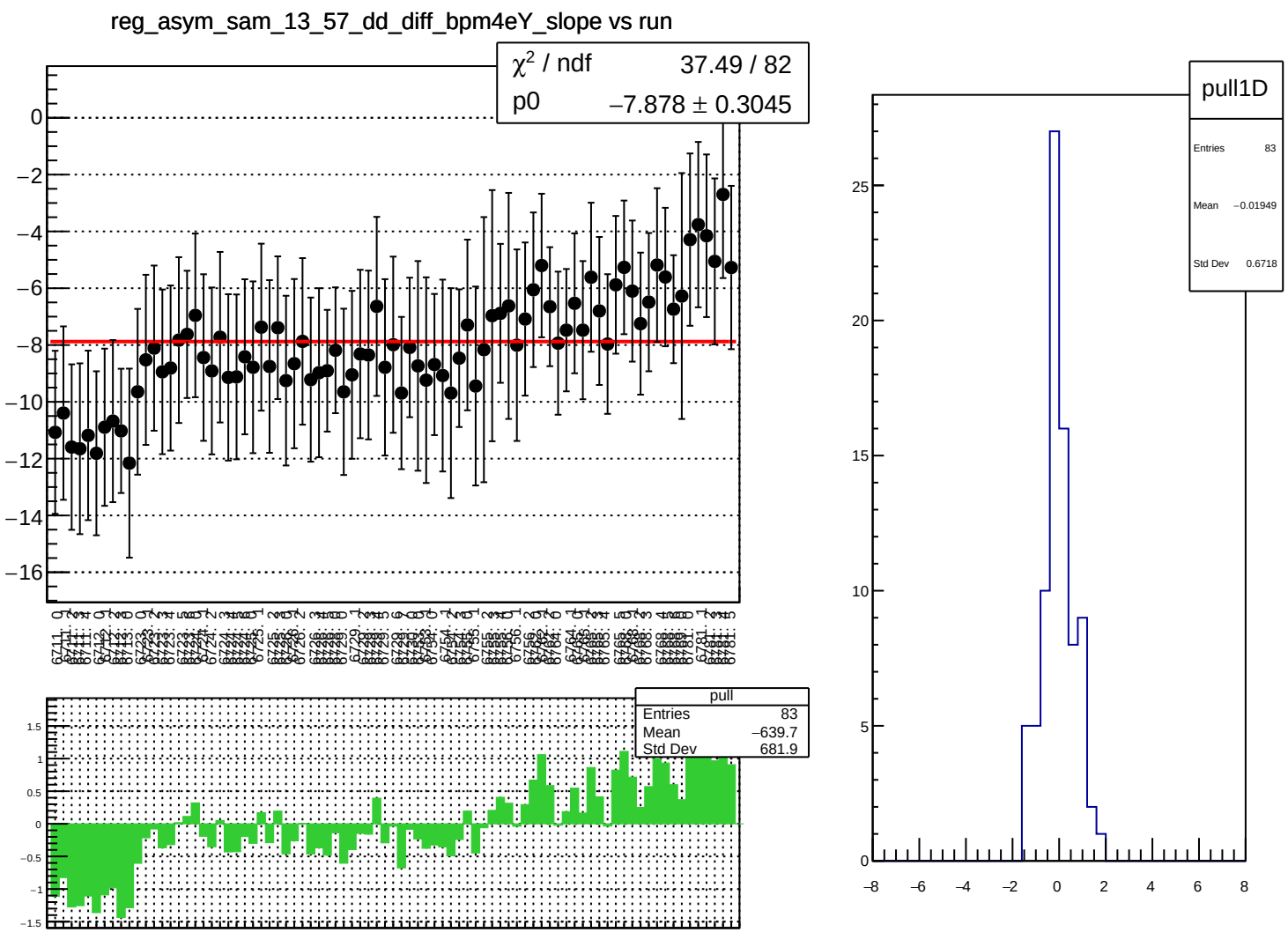

pull1D
Entries 83
Mean 0.001425
Std Dev 0.4

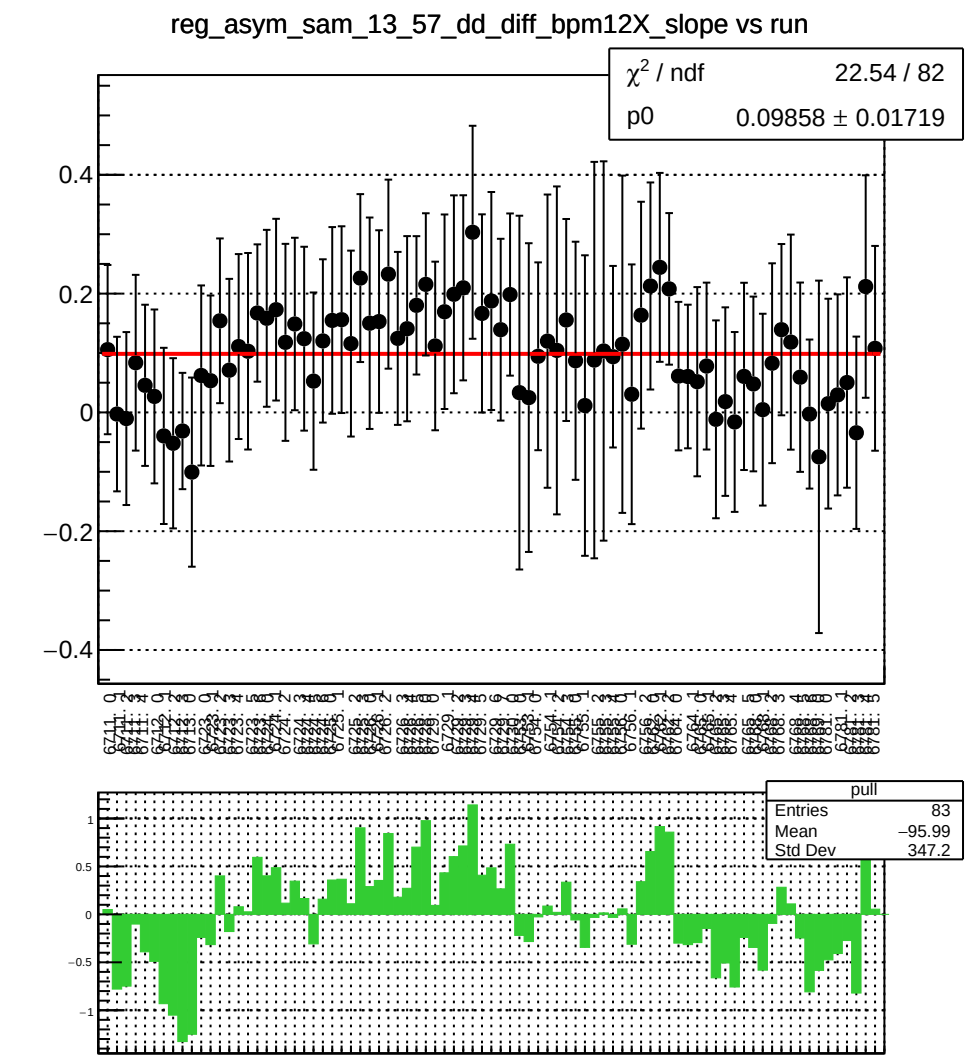

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 79.28 / 82
p0 −7.685 ± 0.3833
pull
Entries 83
Mean 255.4
Std Dev 210.1

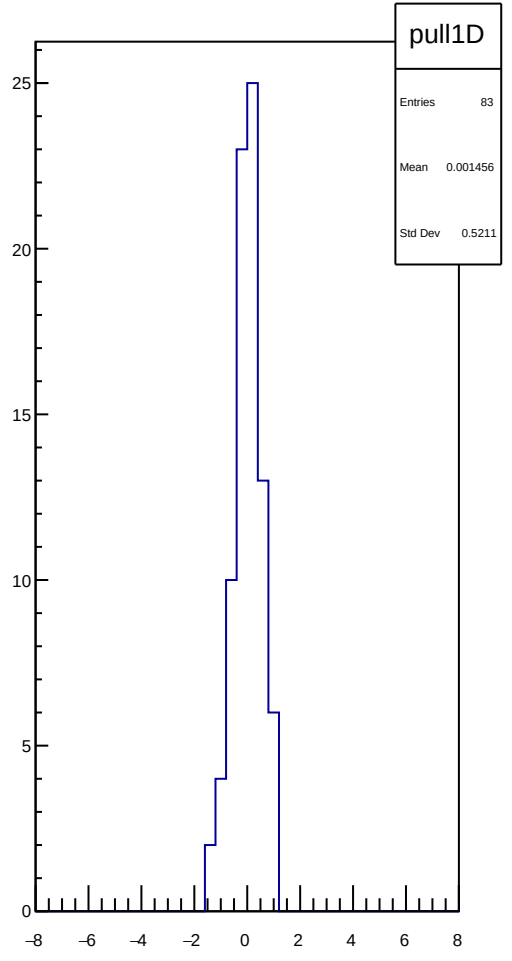

pull1D
Entries 83
Mean −0.09596
Std Dev 0.9726

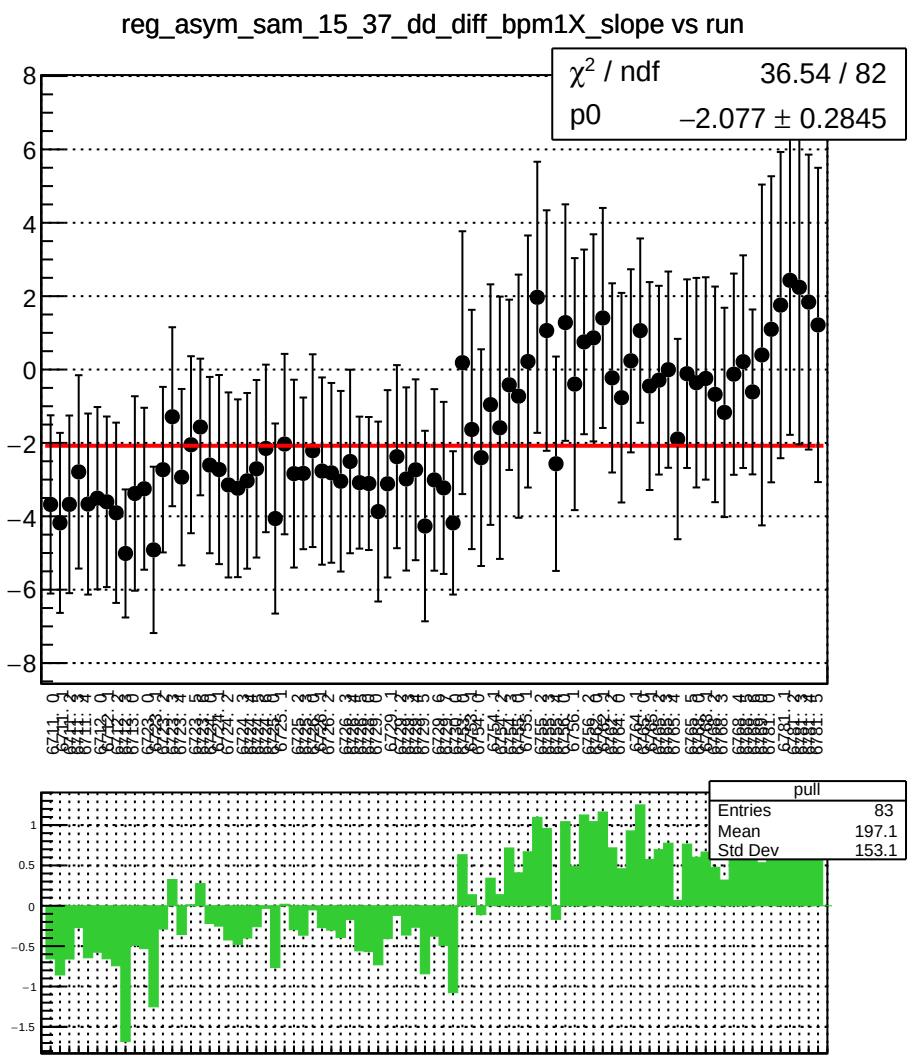

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.13 / 82
p0 −30.22 ± 0.2466
pull
Entries 83
Mean −238.8
Std Dev 280.3
pull1D
Entries 83
Mean 0.02098
Std Dev 0.4403

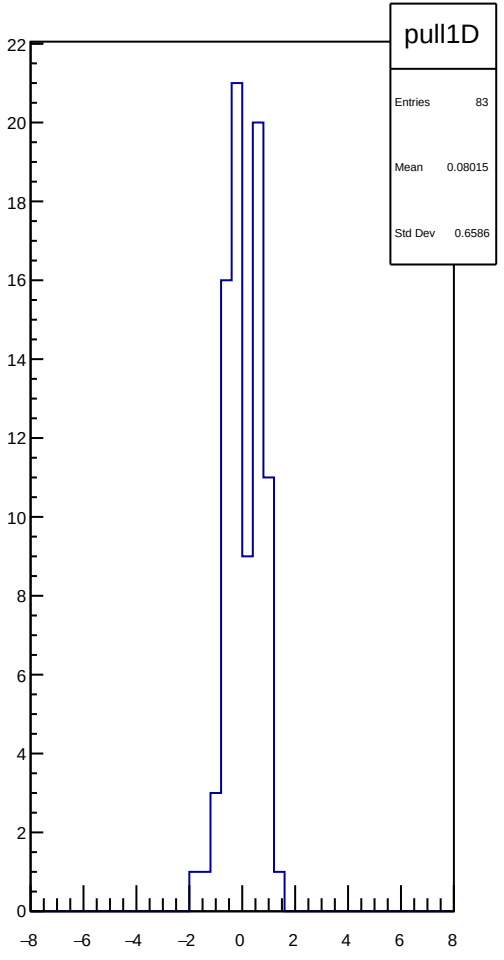

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.24 / 82
p0 −5.447 ± 0.3681
pull
Entries 83
Mean 348.2
Std Dev 311
pull1D
Entries 83
Mean 0.02527
Std Dev 0.7213

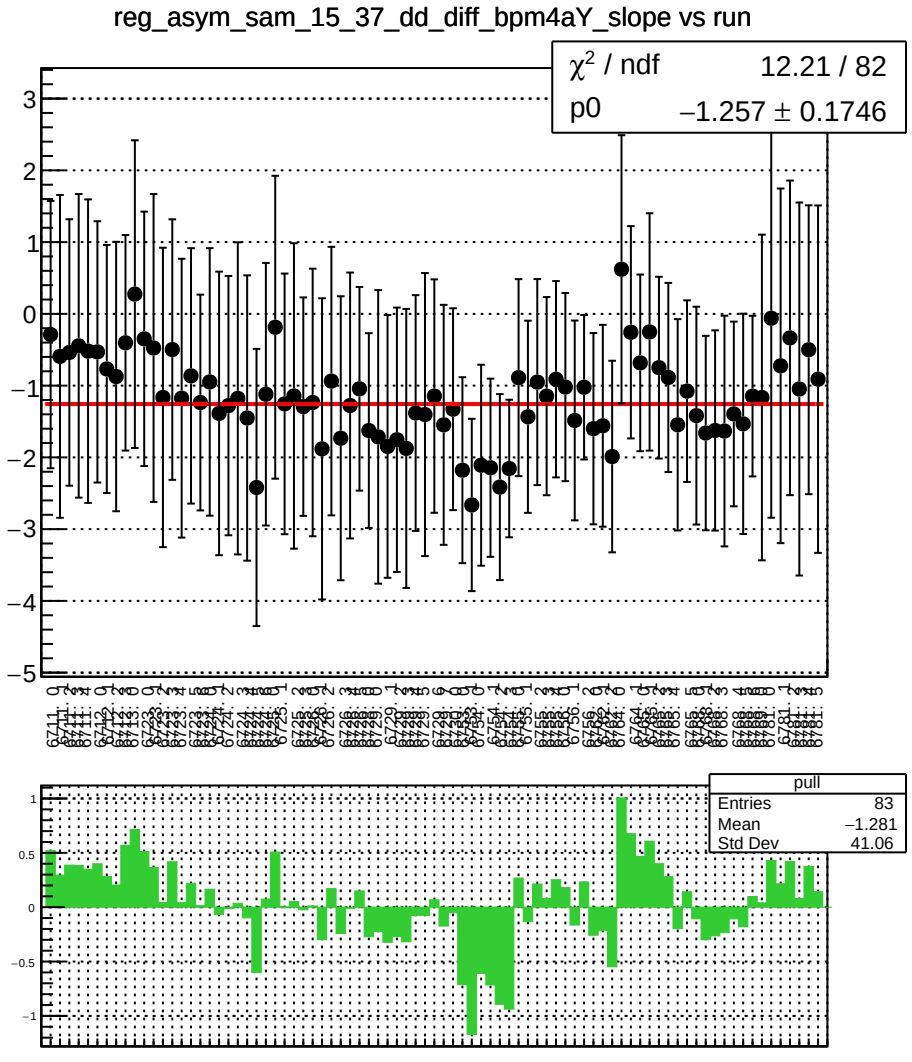

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.49 / 82
p0 −7.878 ± 0.3045
pull
Entries 83
Mean −639.7
Std Dev 681.9
pull1D
Entries 83
Mean −0.01949
Std Dev 0.6718

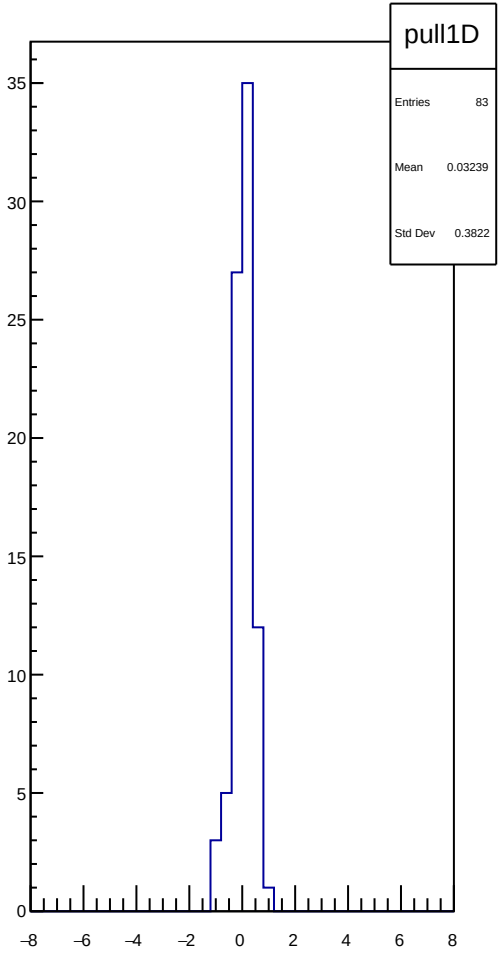

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 22.54 / 82
p0 0.09858 ± 0.01719
0.4
0.2
0
−0.2
−0.4
pull
Entries 83
Mean −95.99
Std Dev 347.2
1
0.5
0
−0.5
−1

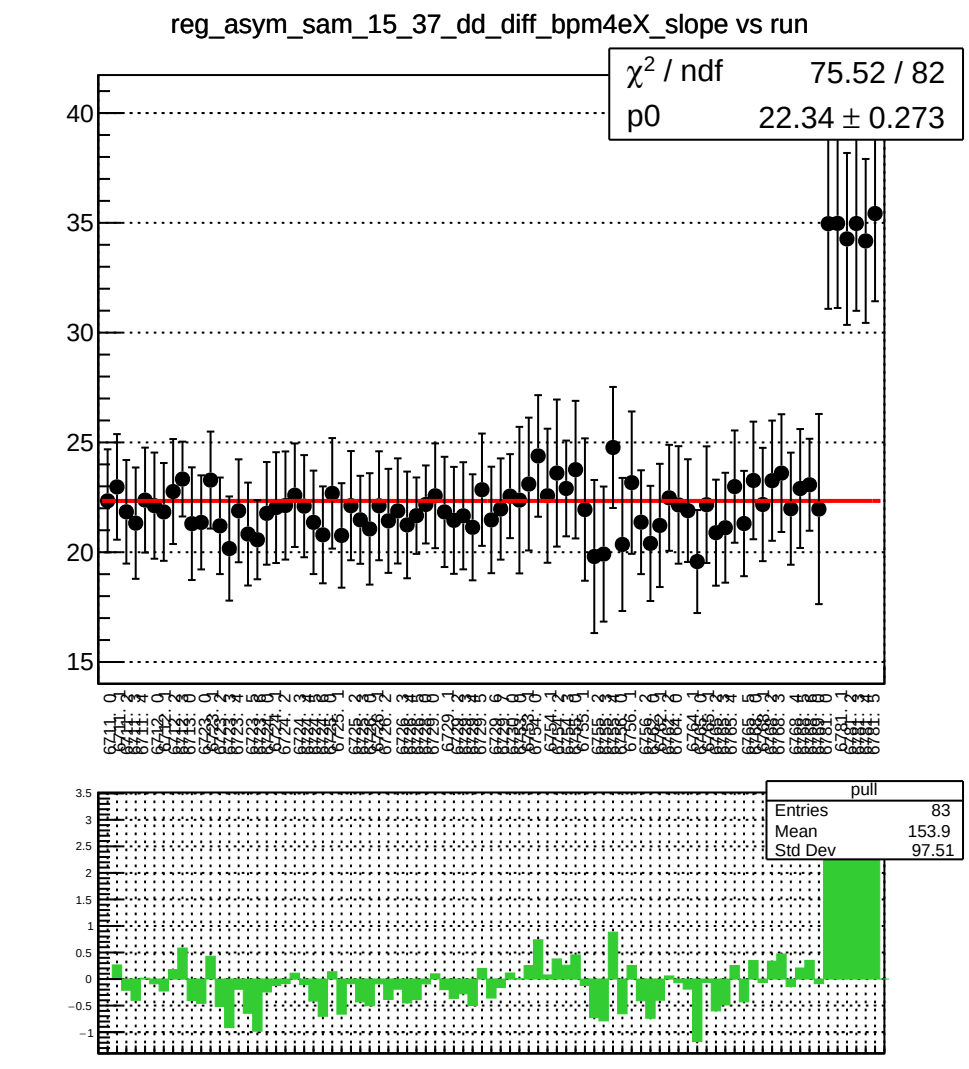

pull1D
Entries 83
Mean 0.001456
Std Dev 0.5211
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

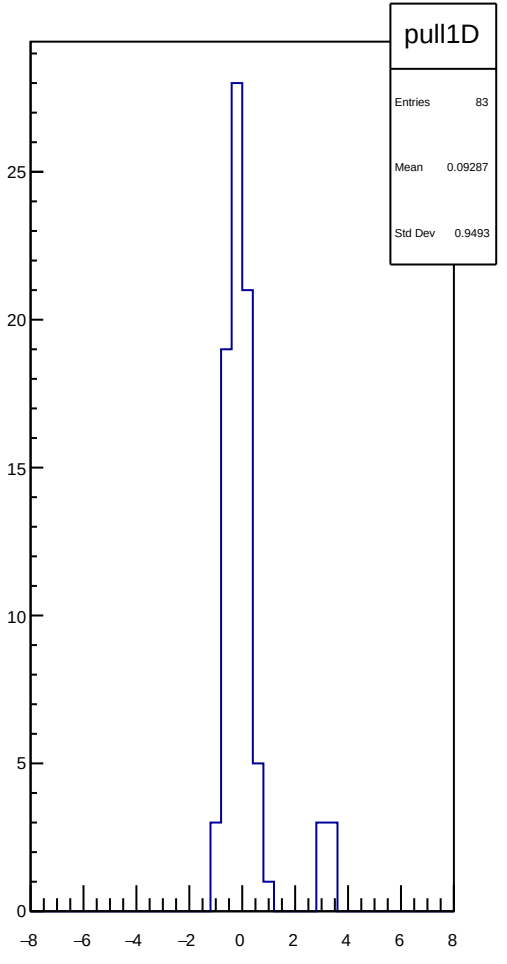

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 36.54 / 82
p0 −2.077 ± 0.2845
pull
Entries 83
Mean 197.1
Std Dev 153.1

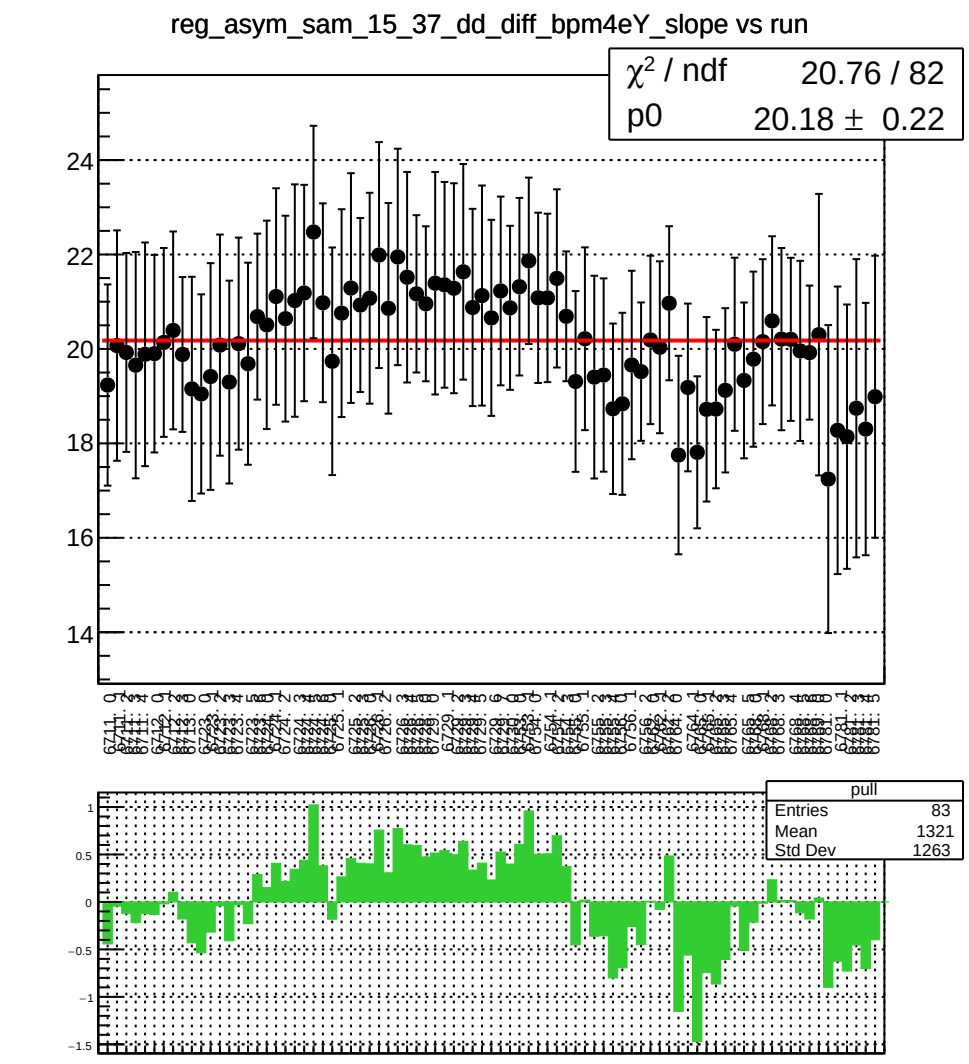

pull1D
Entries 83
Mean 0.08015
Std Dev 0.6586

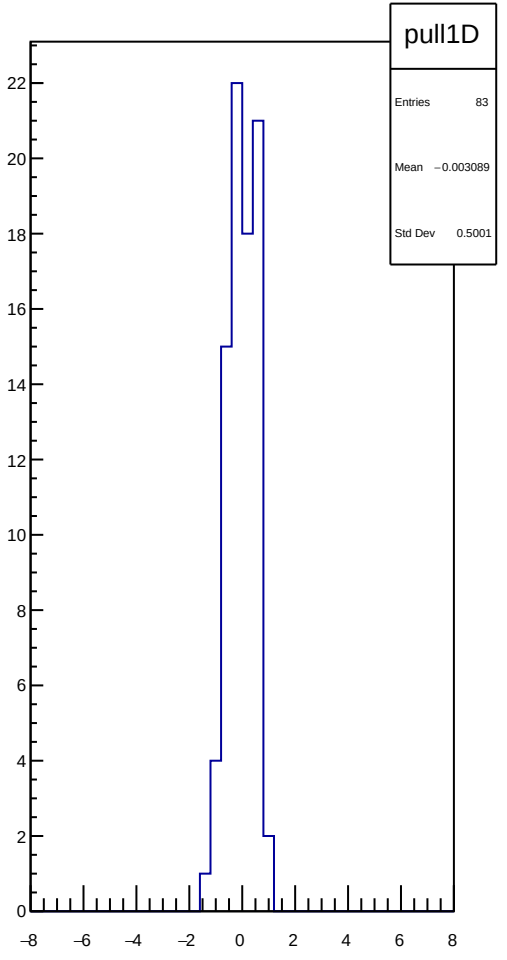

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.21 / 82
p0 −1.257 ± 0.1746
pull
Entries 83
Mean −1.281
Std Dev 41.06

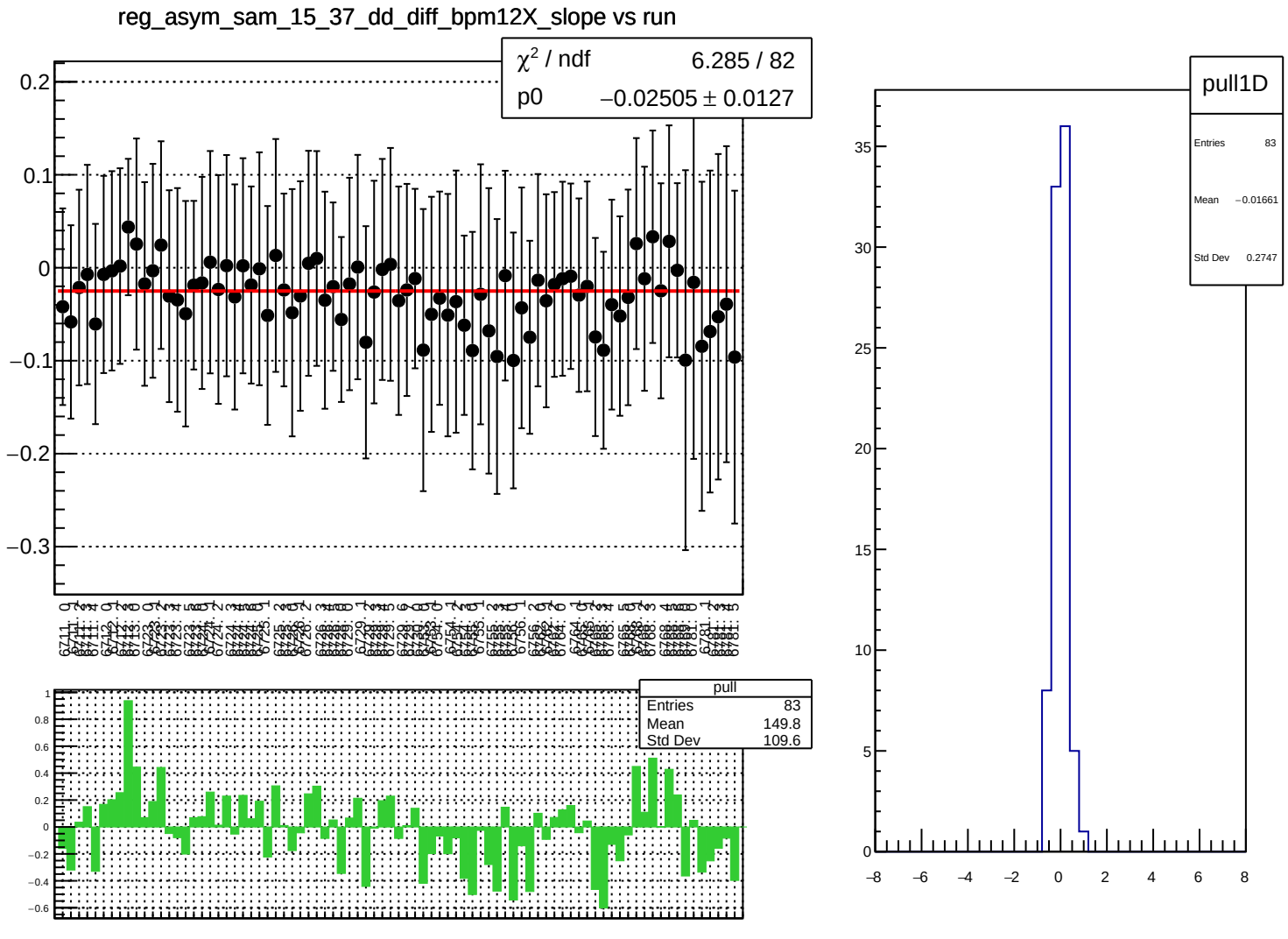

pull1D
Entries 83
Mean 0.03239
Std Dev 0.3822

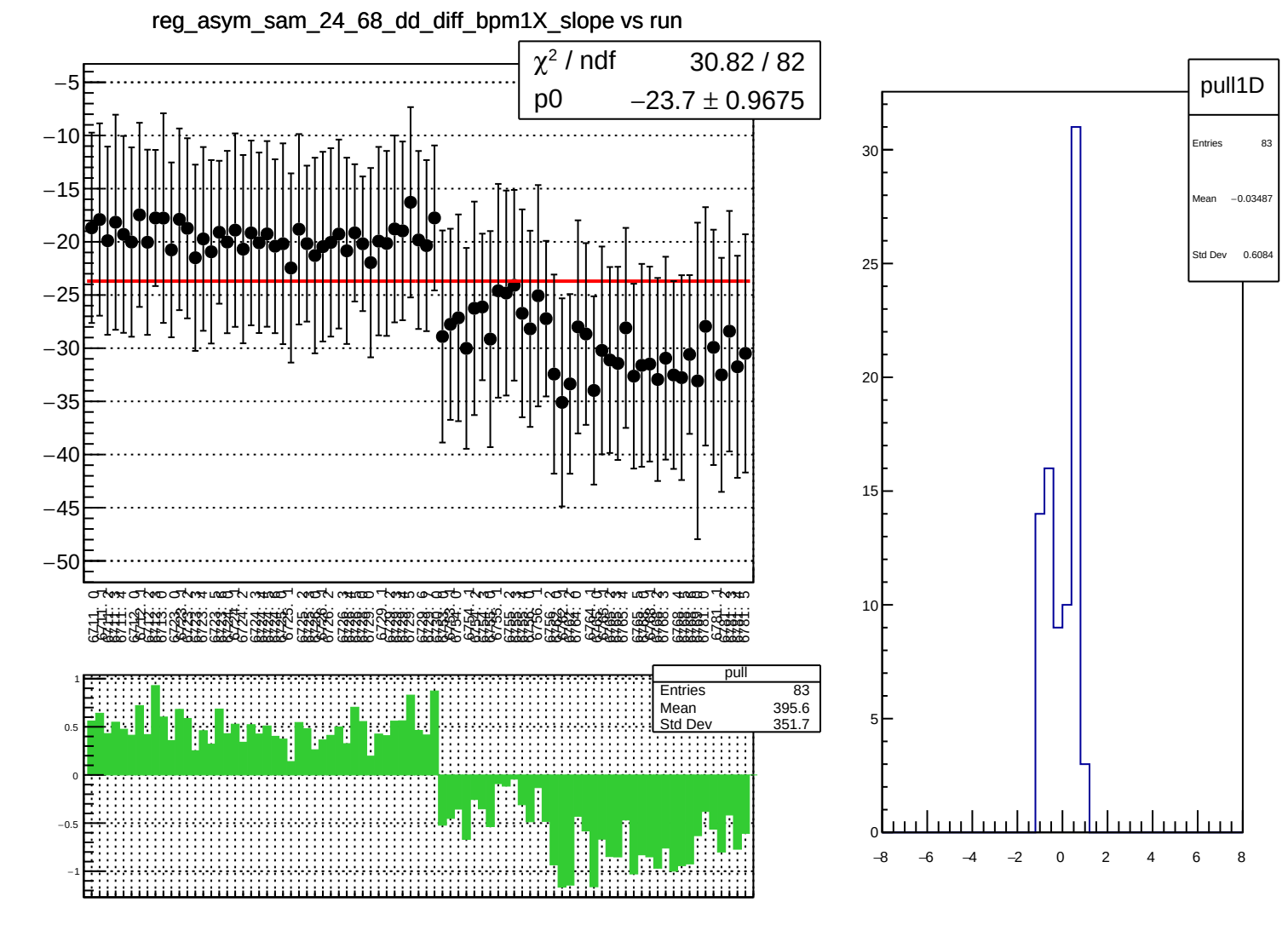

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.52 / 82
p0 22.34 ± 0.273
pull
Entries 83
Mean 153.9
Std Dev 97.51

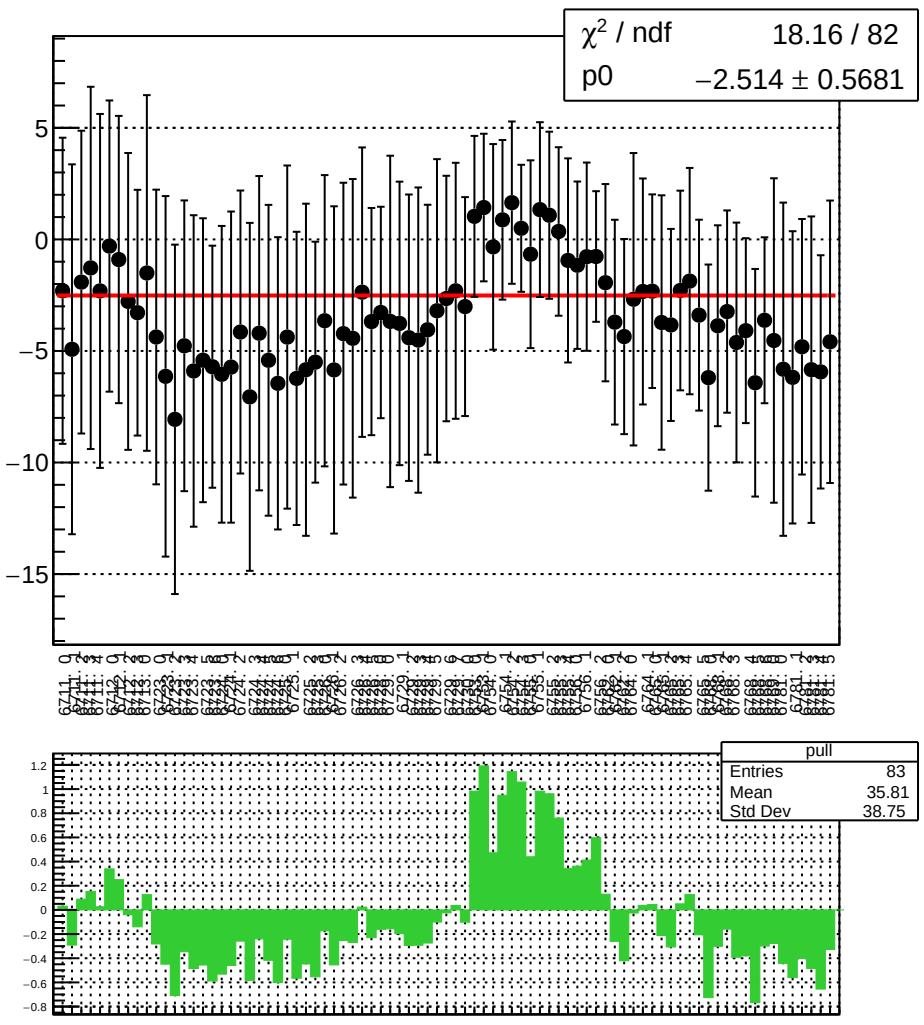

pull1D
Entries 83
Mean 0.09287
Std Dev 0.9493

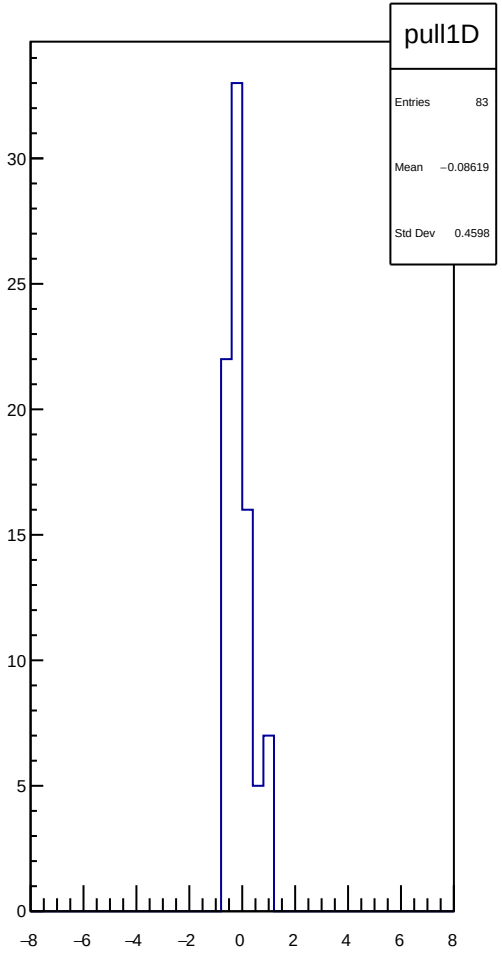

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.76 / 82
p0 20.18 ± 0.22
pull
Entries 83
Mean 1321
Std Dev 1263

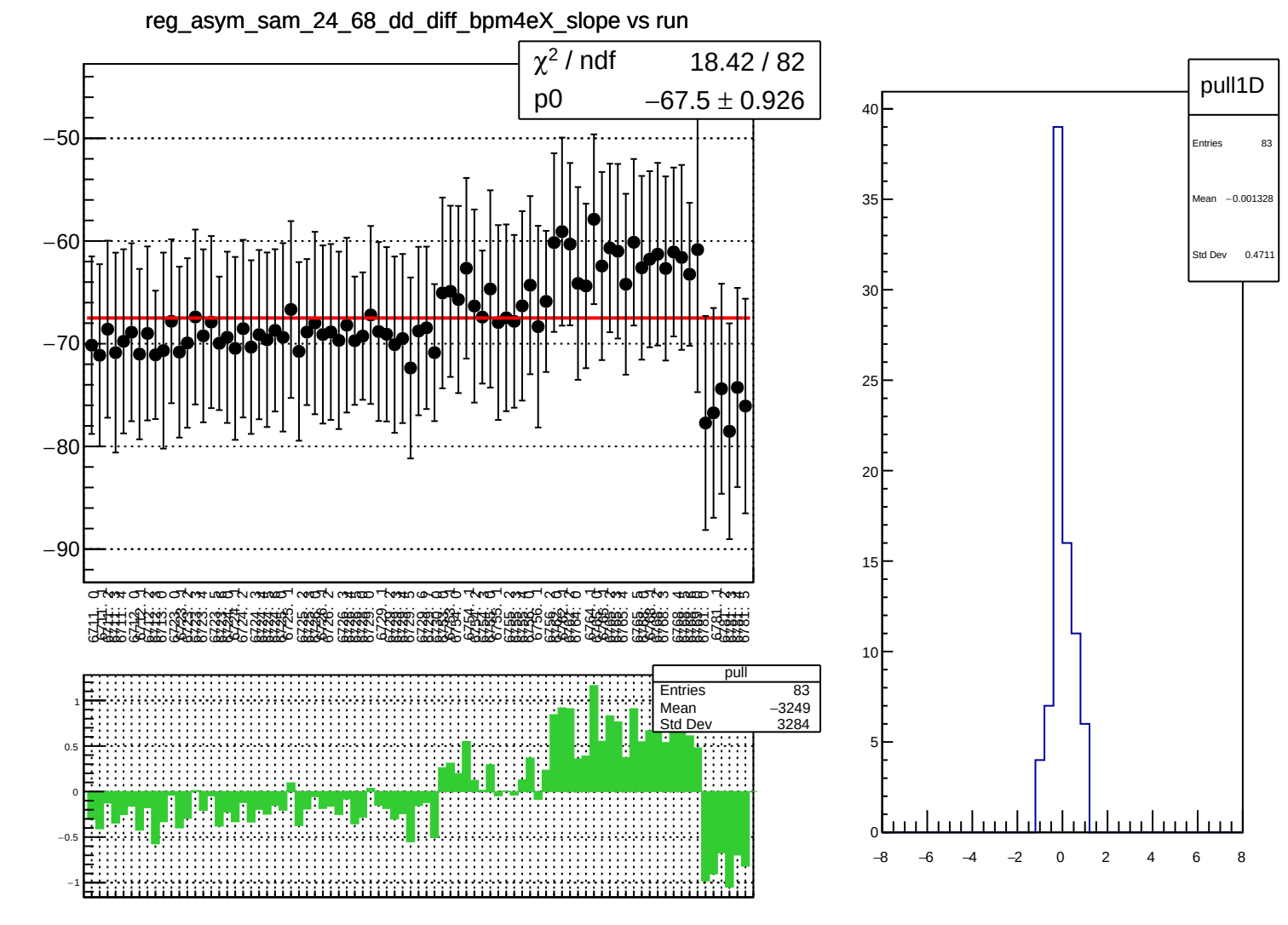

pull1D
Entries 83
Mean −0.003089
Std Dev 0.5001

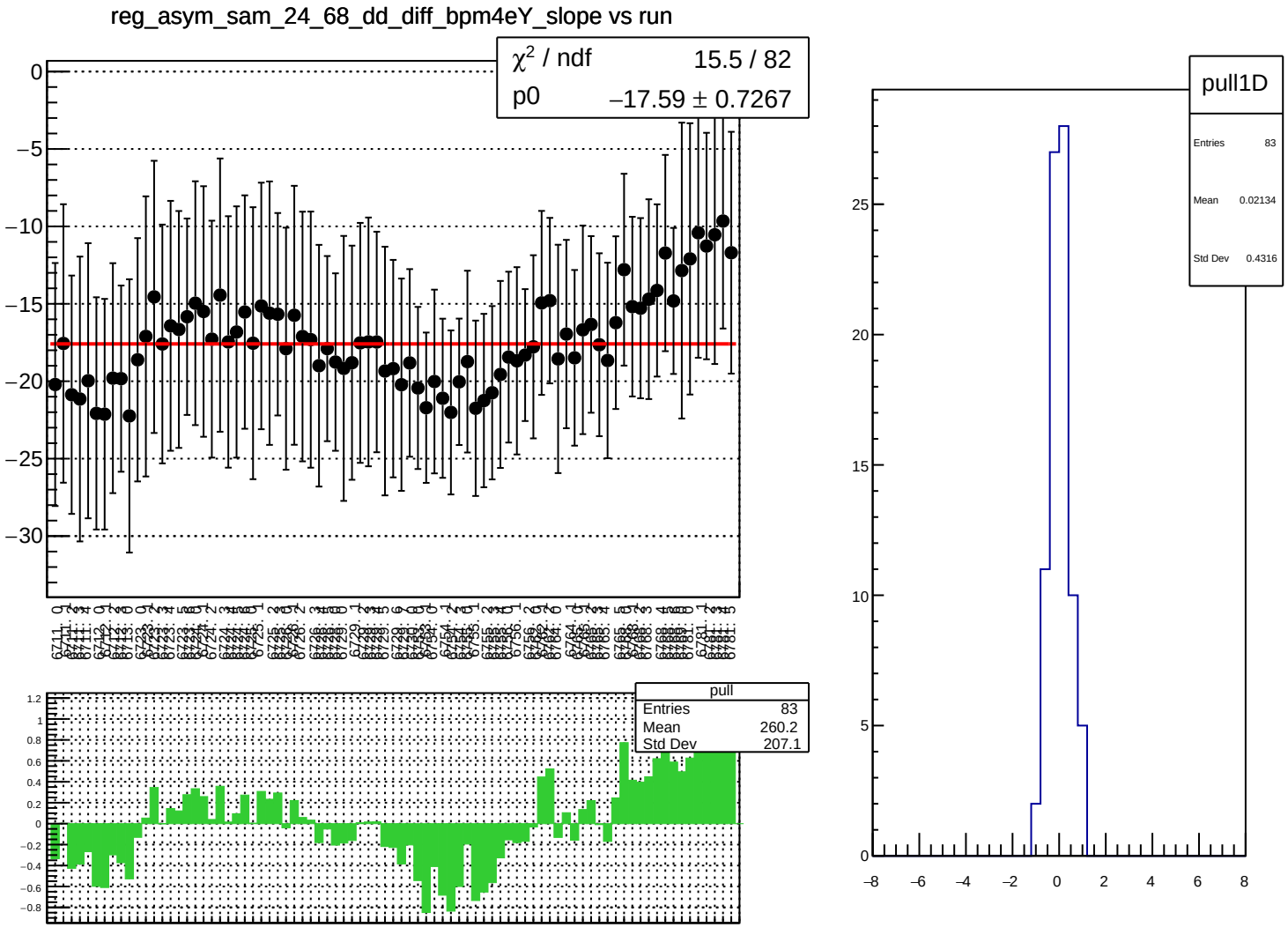

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 6.285 / 82
p0 −0.02505 ± 0.0127
pull
Entries 83
Mean 149.8
Std Dev 109.6
pull1D
Entries 83
Mean −0.01661
Std Dev 0.2747

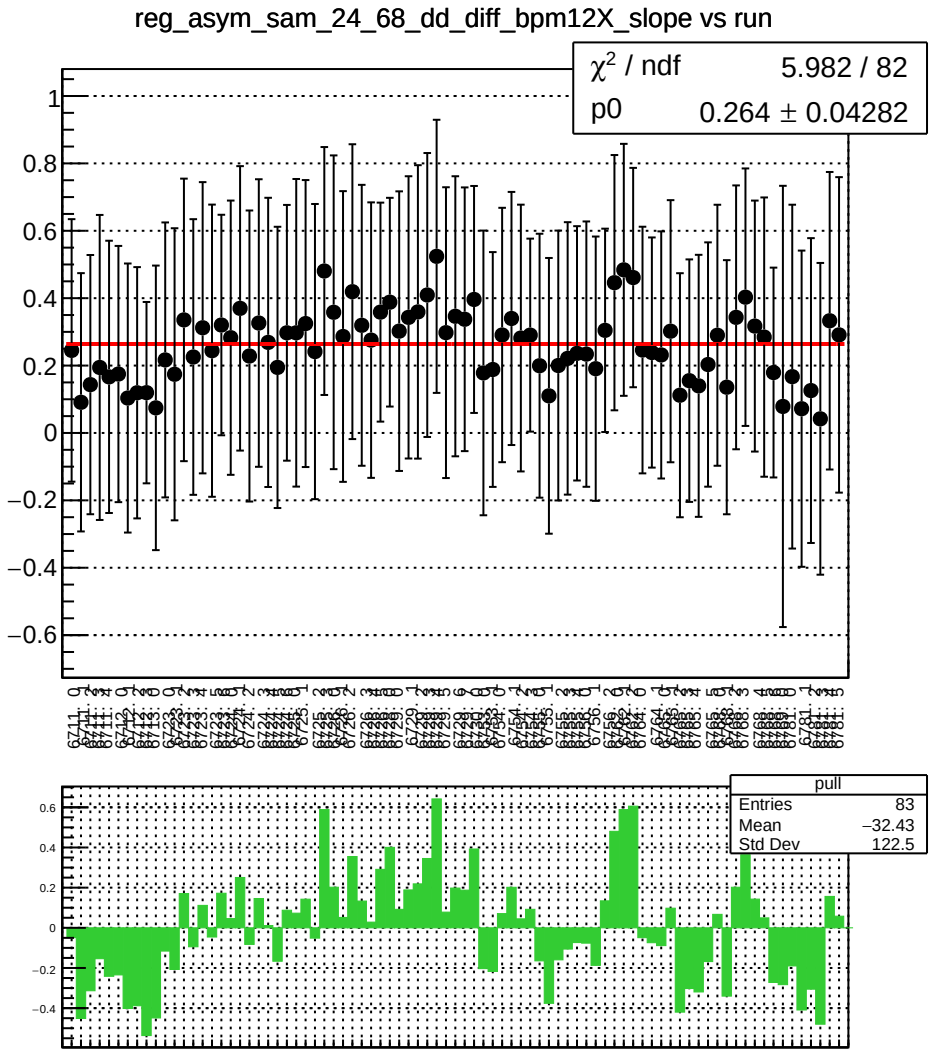

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 30.82 / 82
p0 −23.7 ± 0.9675
pull
Entries 83
Mean 395.6
Std Dev 351.7
pull1D
Entries 83
Mean −0.03487
Std Dev 0.6084

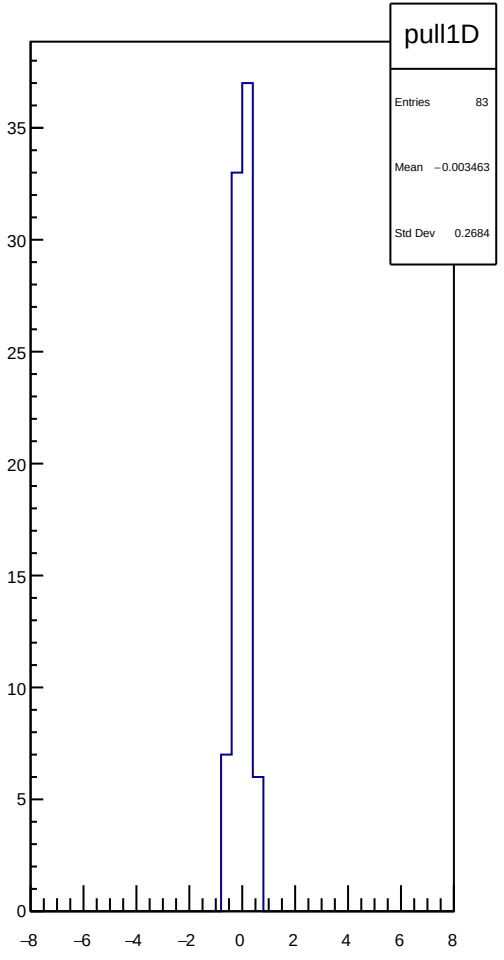

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.16 / 82
p0 −2.514 ± 0.5681
pull
Entries 83
Mean 35.81
Std Dev 38.75

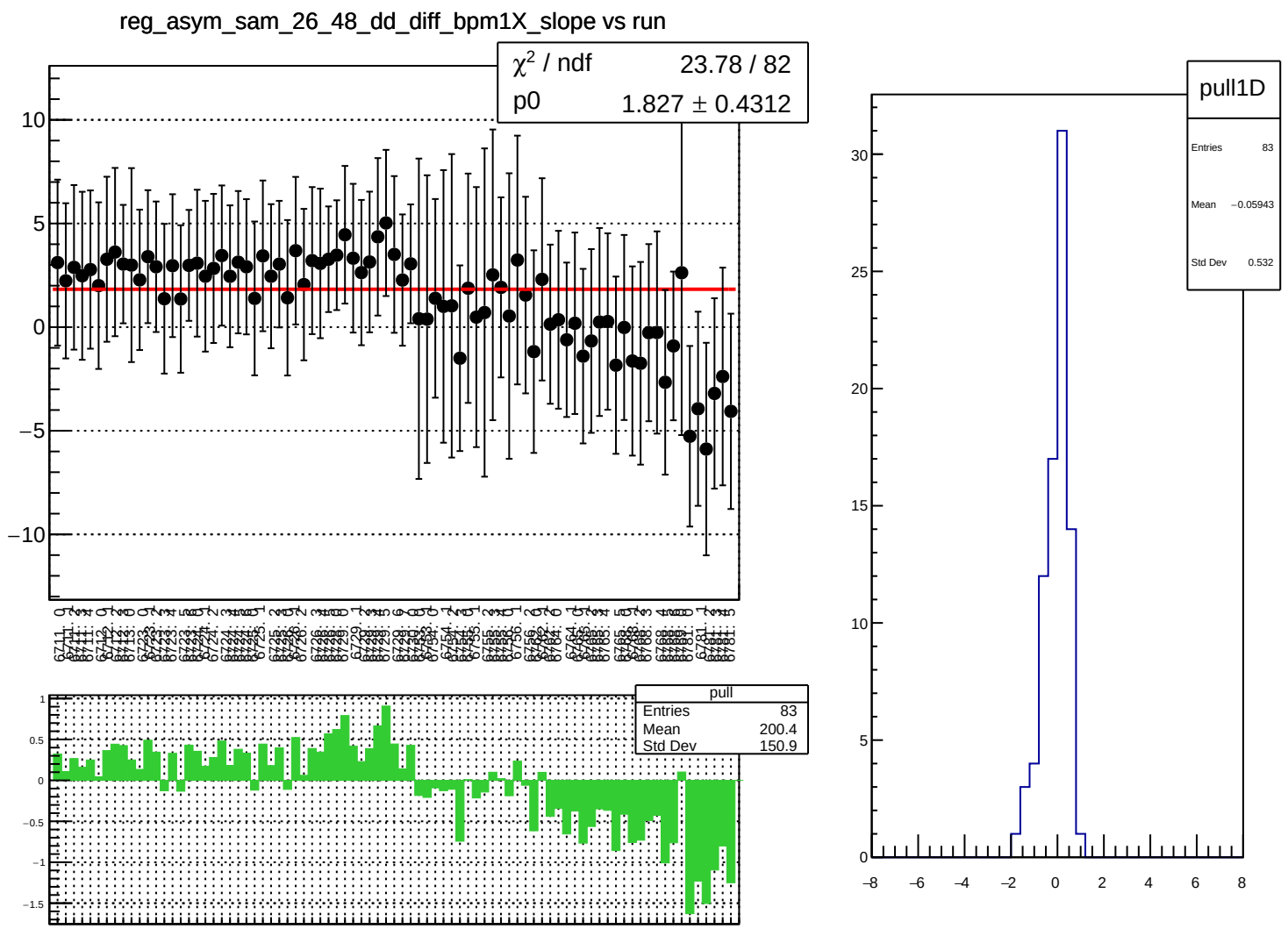

pull1D
Entries 83
Mean −0.08619
Std Dev 0.4598

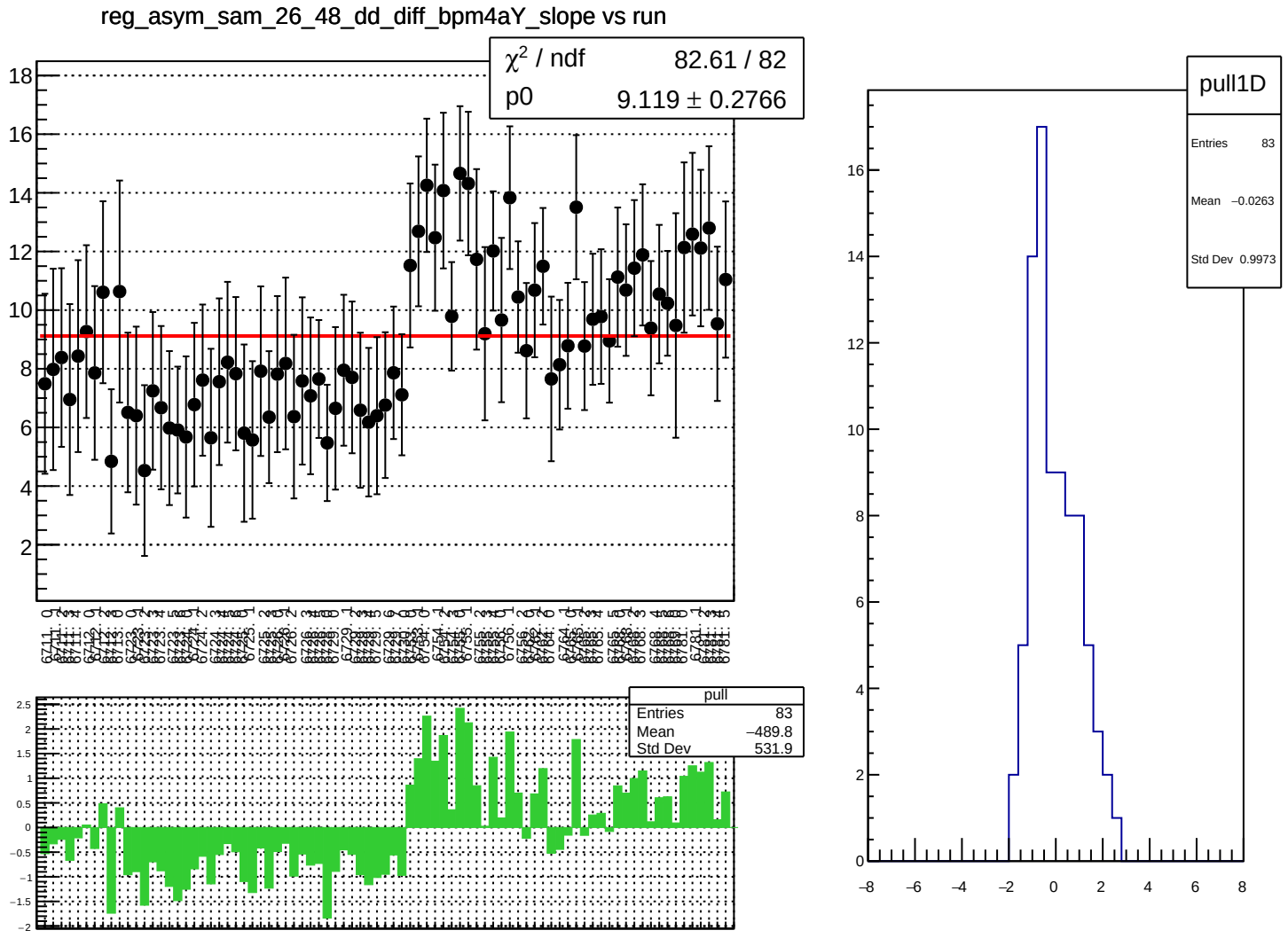

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.42 / 82
p0 −67.5 ± 0.926
−50
−60
−70
−80
−90
pull
Entries 83
Mean −3249
Std Dev 3284
1
0.5
0
−0.5
−1
pull1D
Entries 83
Mean −0.001328
Std Dev 0.4711
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

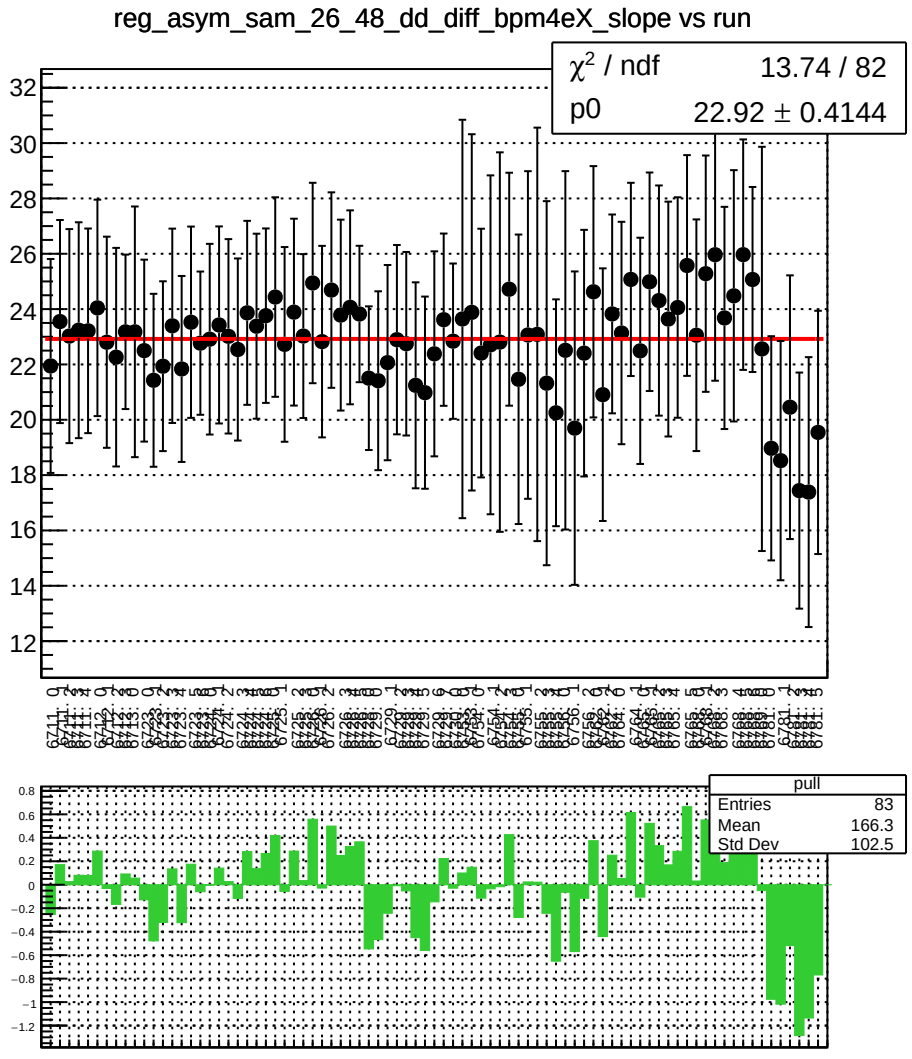

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.5 / 82
p0 −17.59 ± 0.7267
pull
Entries 83
Mean 260.2
Std Dev 207.1
pull1D
Entries 83
Mean 0.02134
Std Dev 0.4316

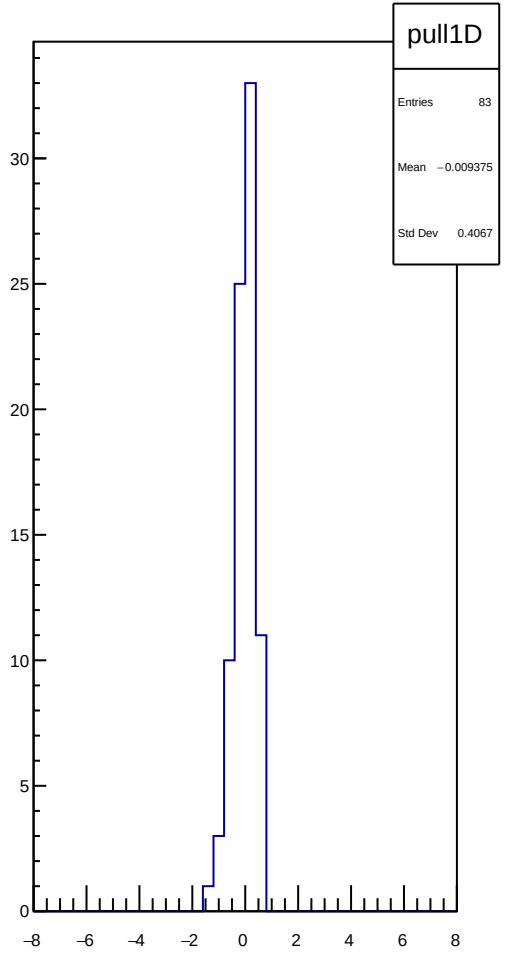

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 5.982 / 82
p0 0.264 ± 0.04282
pull
Entries 83
Mean −32.43
Std Dev 122.5

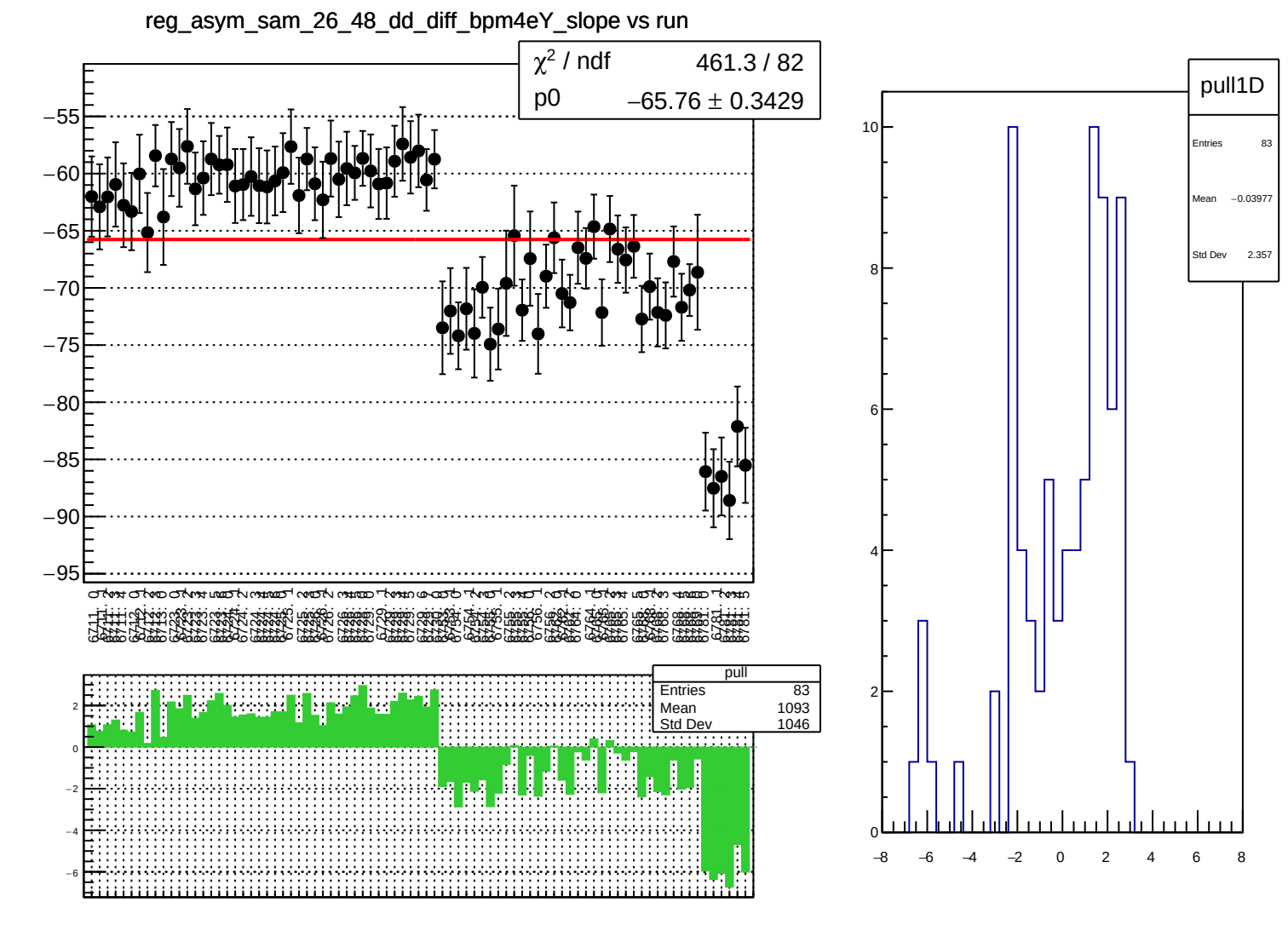

pull1D
Entries 83
Mean −0.003463
Std Dev 0.2684

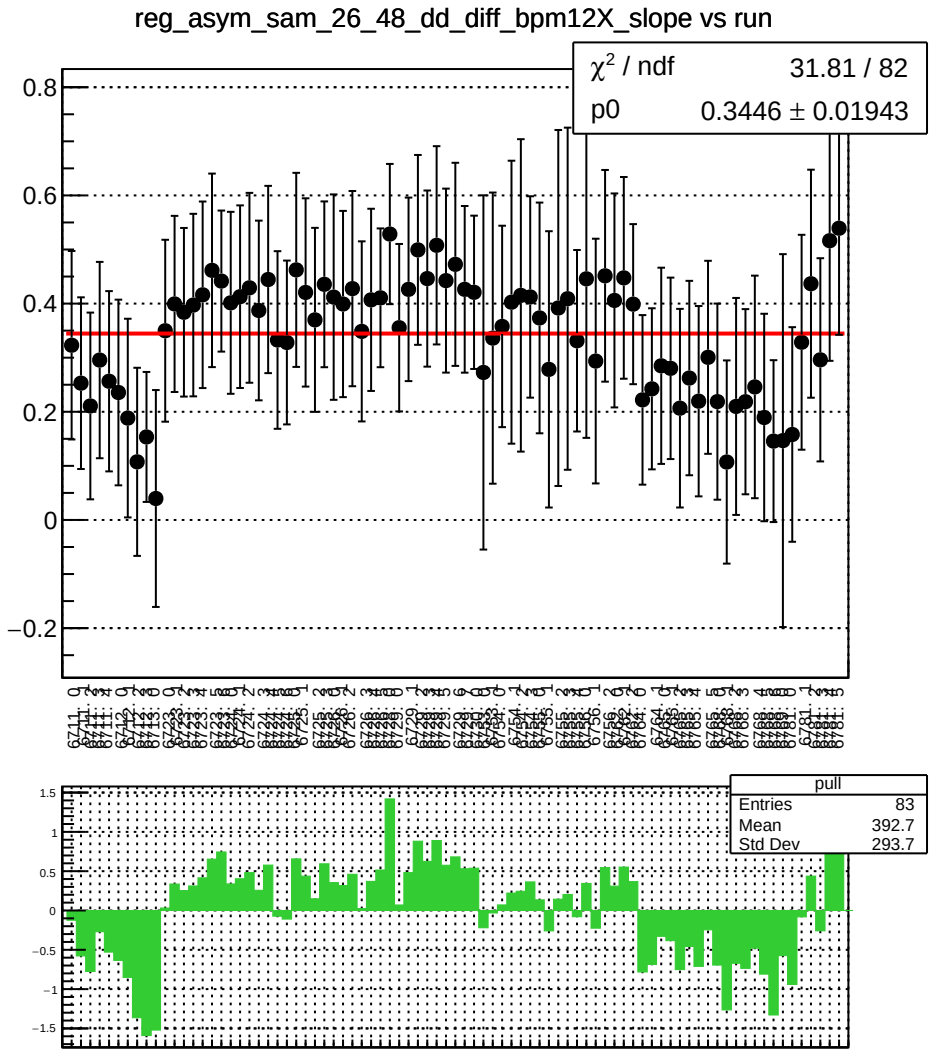

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 23.78 / 82
p0 1.827 ± 0.4312
pull
Entries 83
Mean 200.4
Std Dev 150.9
pull1D
Entries 83
Mean −0.05943
Std Dev 0.532

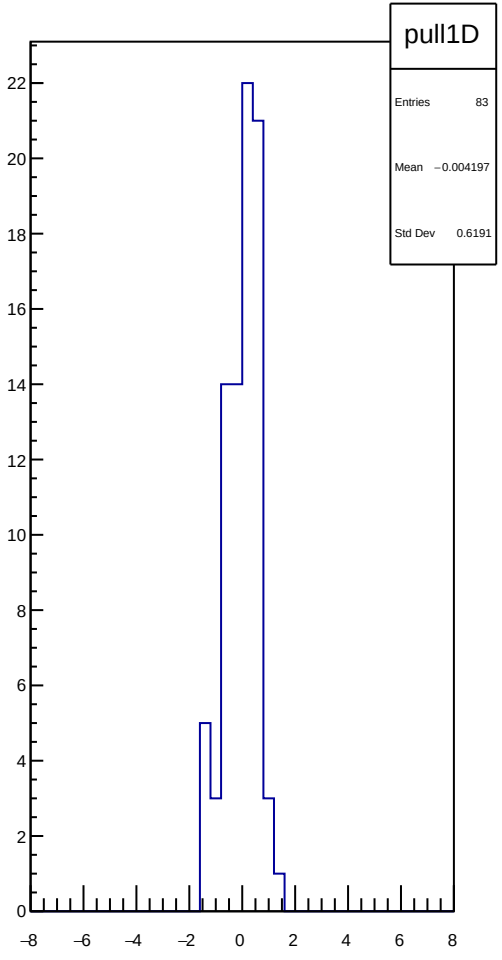

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.61 / 82
p0 9.119 ± 0.2766
pull
Entries 83
Mean −489.8
Std Dev 531.9
pull1D
Entries 83
Mean −0.0263
Std Dev 0.9973

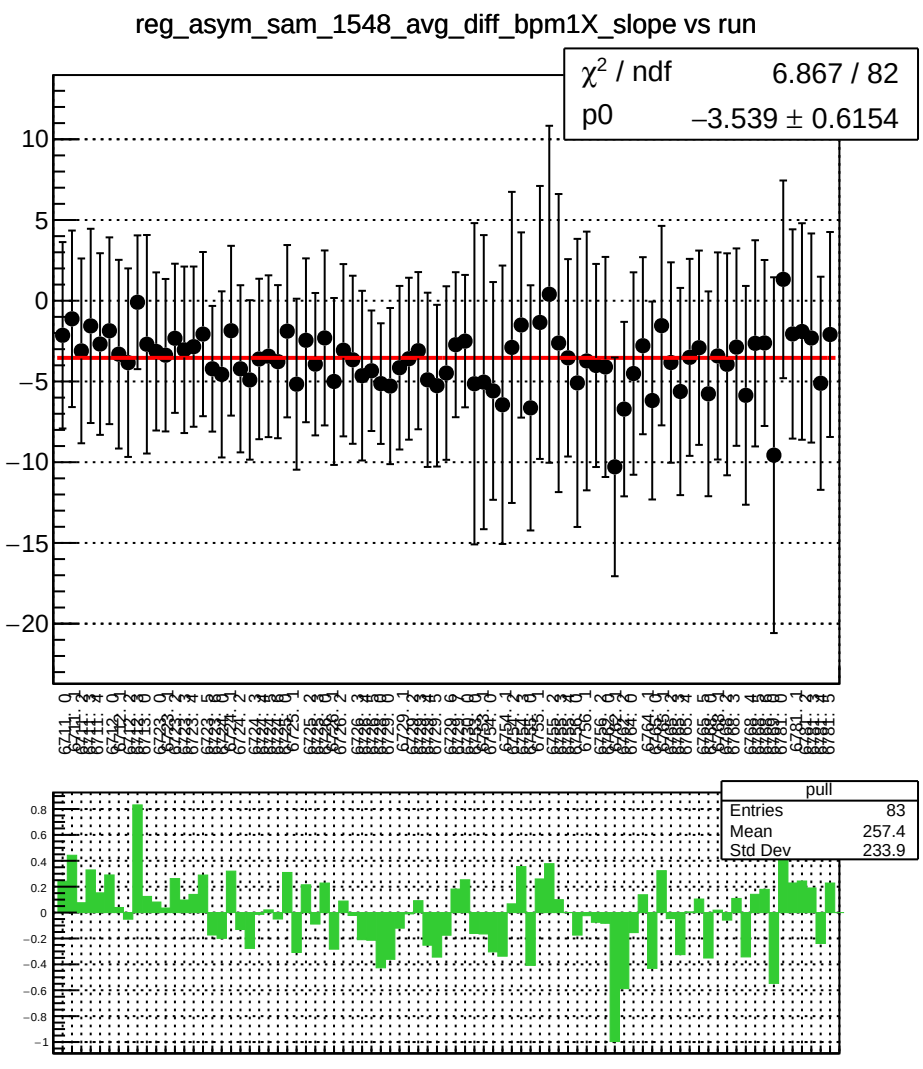

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.74 / 82
p0 22.92 ± 0.4144
pull
Entries 83
Mean 166.3
Std Dev 102.5

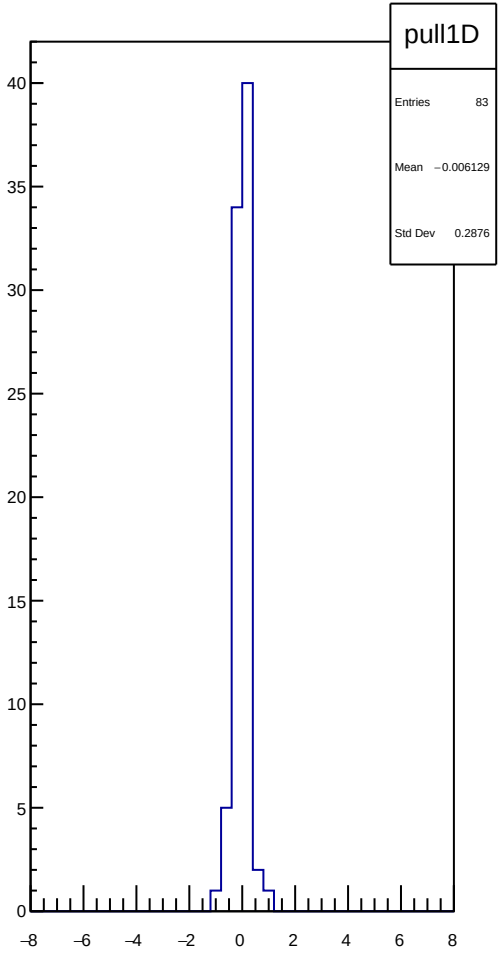

pull1D
Entries 83
Mean −0.009375
Std Dev 0.4067

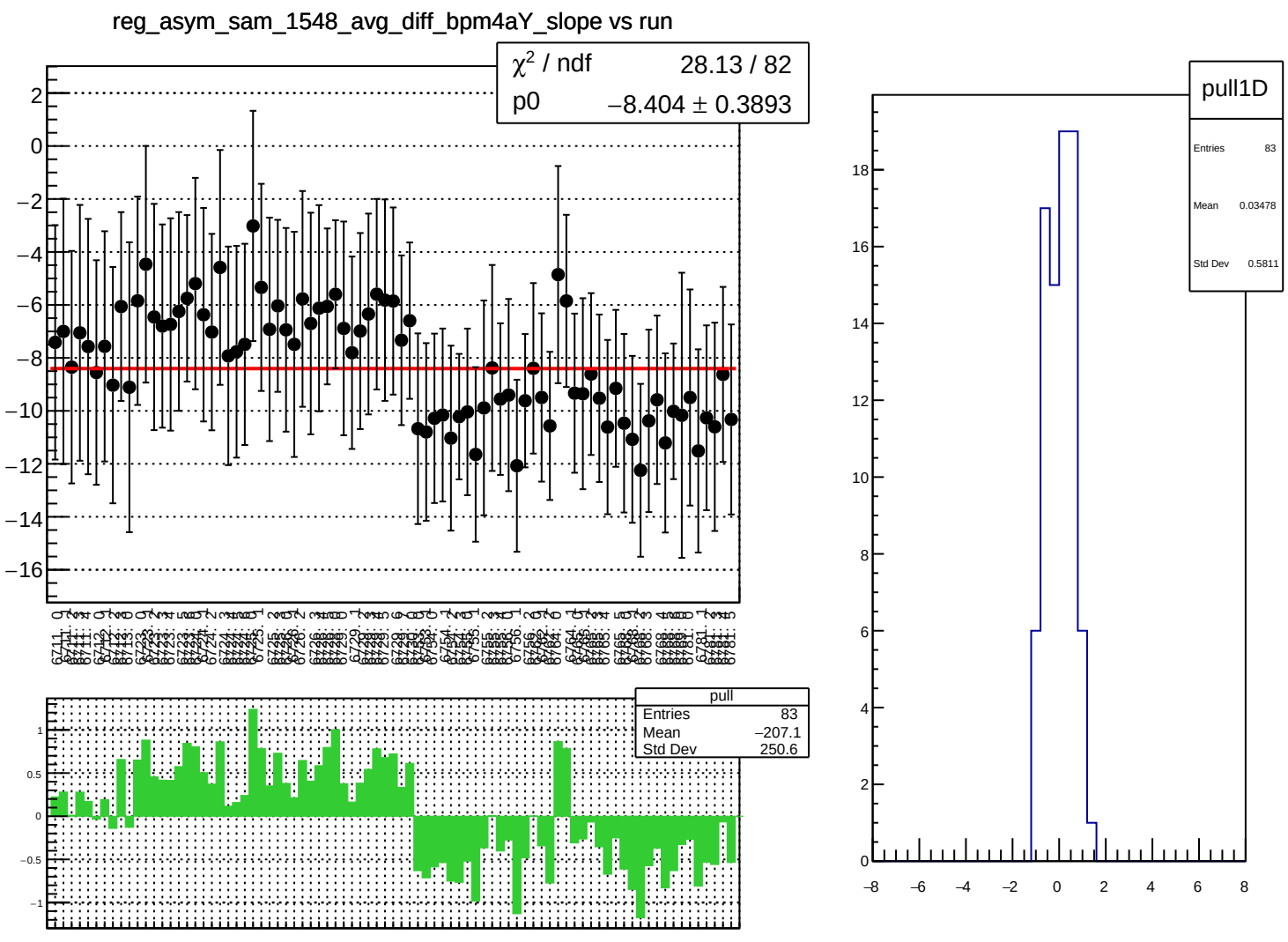

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 461.3 / 82
p0 −65.76 ± 0.3429
pull
Entries 83
Mean 1093
Std Dev 1046
pull1D
Entries 83
Mean −0.03977
Std Dev 2.357

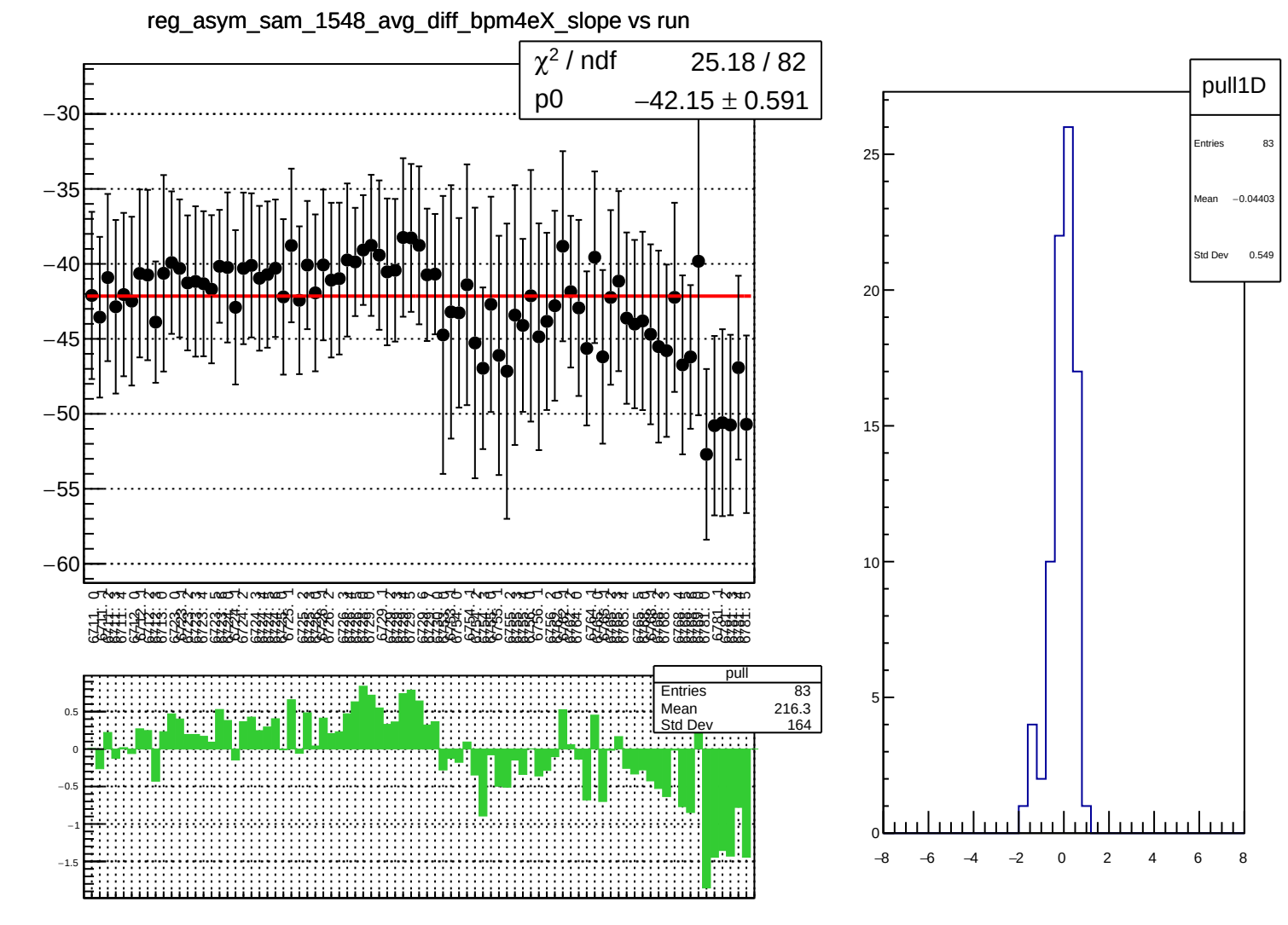

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 31.81 / 82
p0 0.3446 ± 0.01943
pull
Entries 83
Mean 392.7
Std Dev 293.7

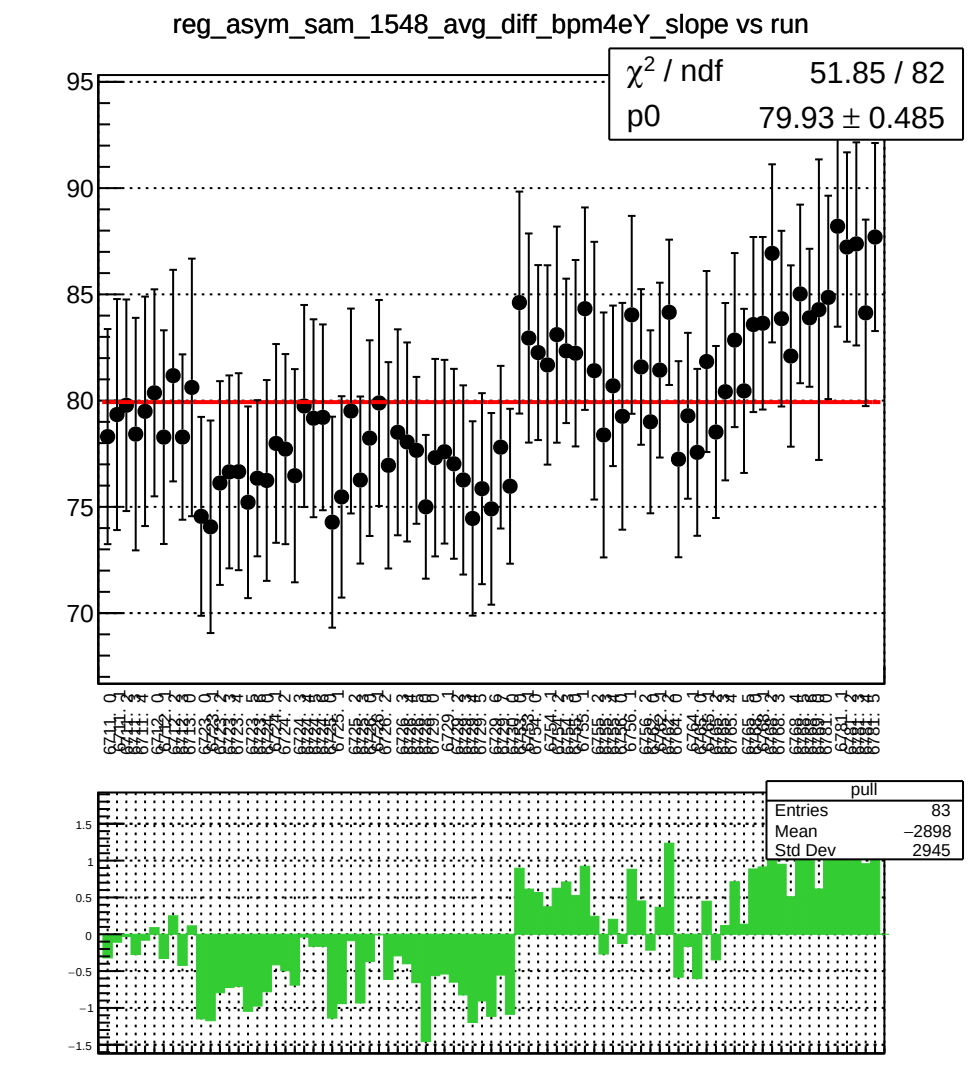

pull1D
Entries 83
Mean −0.004197
Std Dev 0.6191

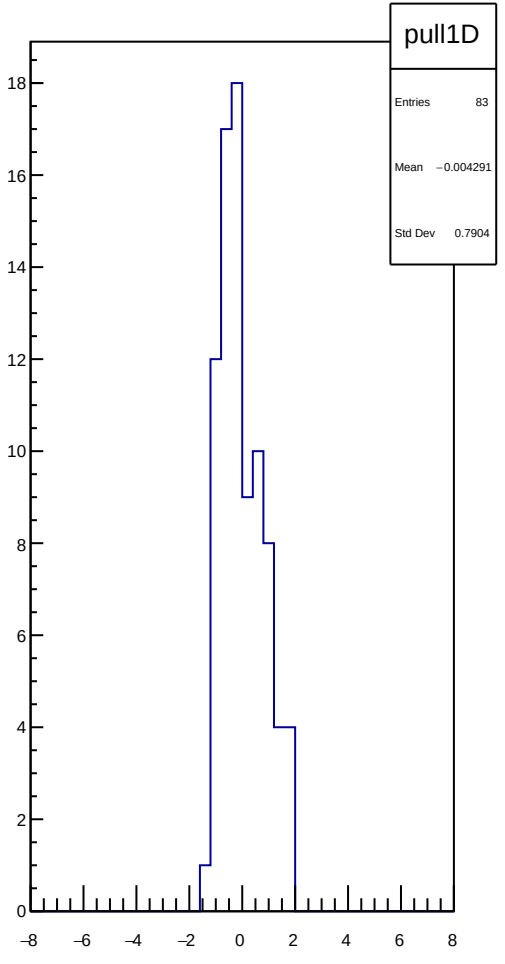

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 6.867 / 82
p0 −3.539 ± 0.6154
pull
Entries 83
Mean 257.4
Std Dev 233.9

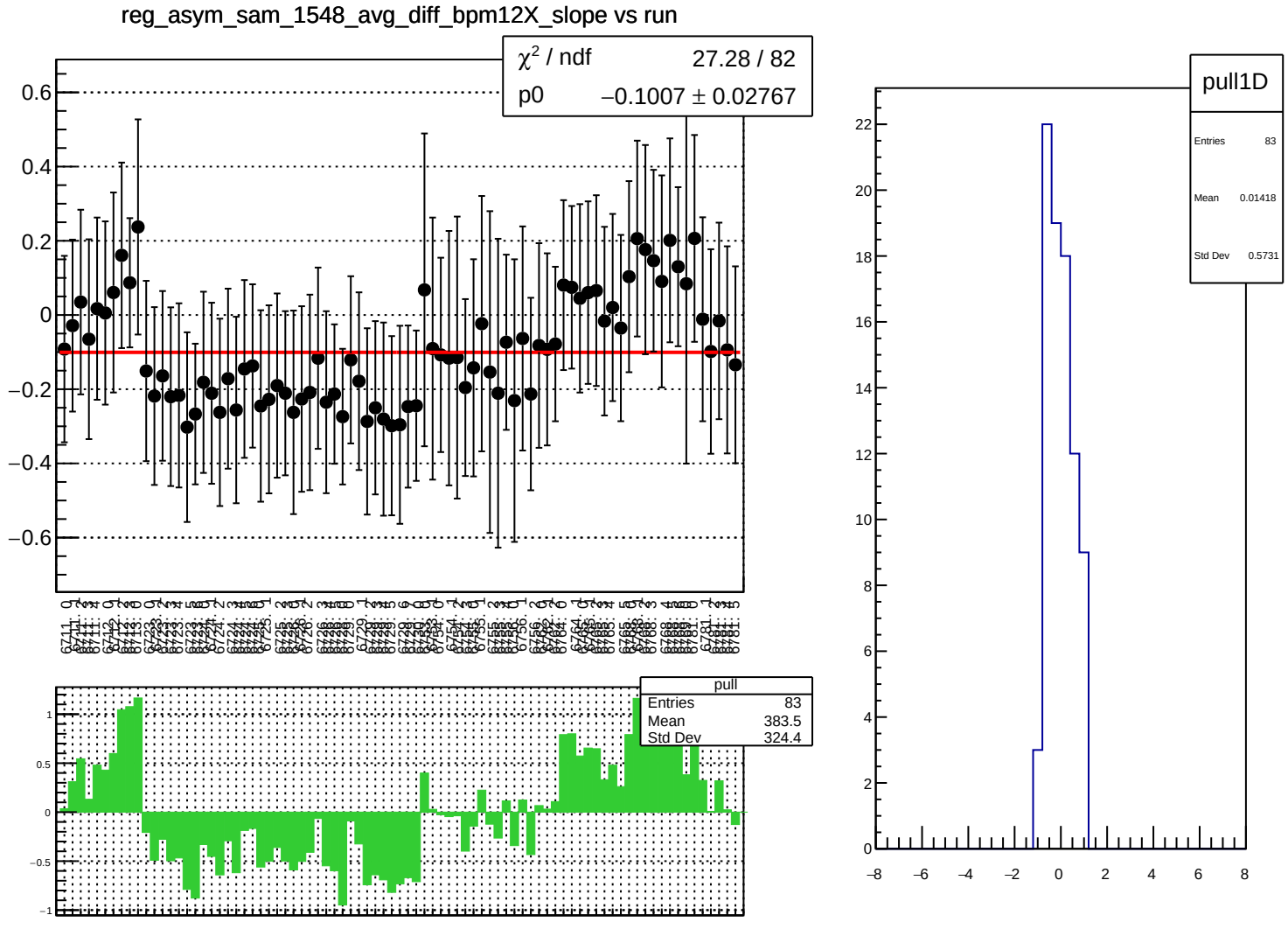

pull1D
Entries 83
Mean −0.006129
Std Dev 0.2876

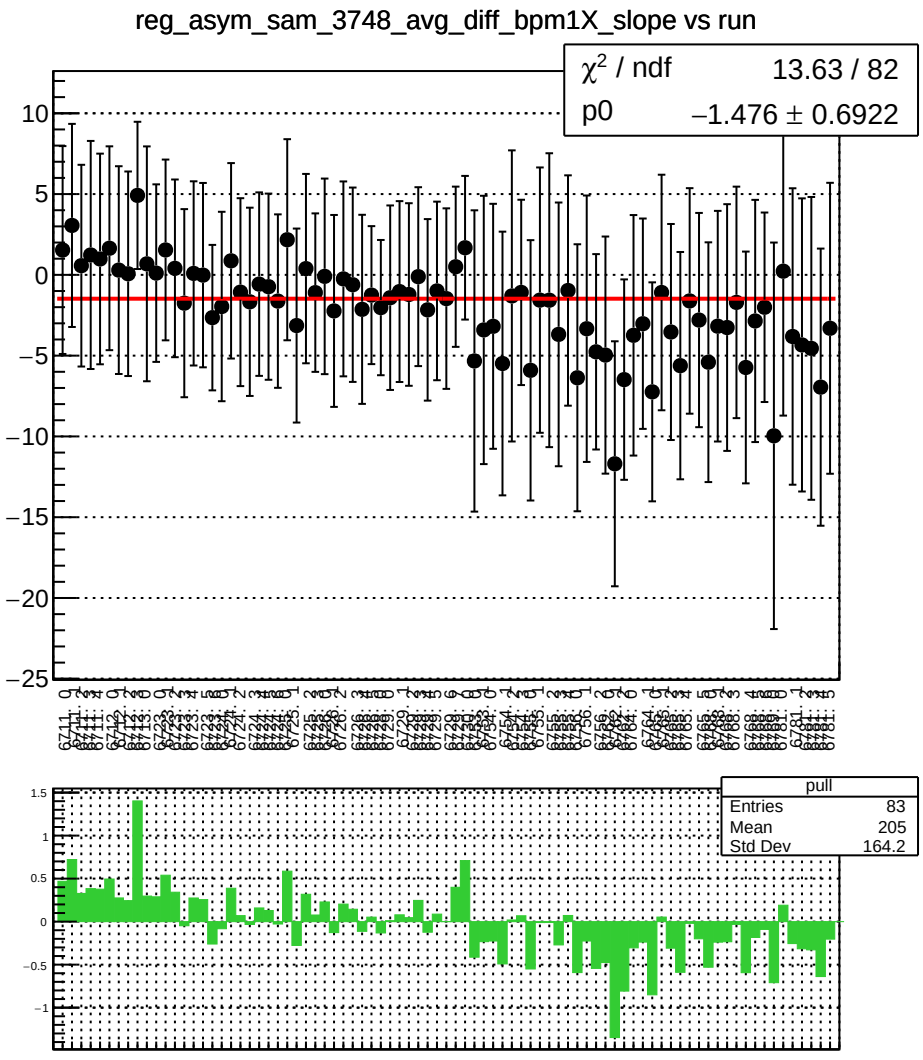

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.13 / 82
p0 −8.404 ± 0.3893
pull
Entries 83
Mean −207.1
Std Dev 250.6
pull1D
Entries 83
Mean 0.03478
Std Dev 0.5811

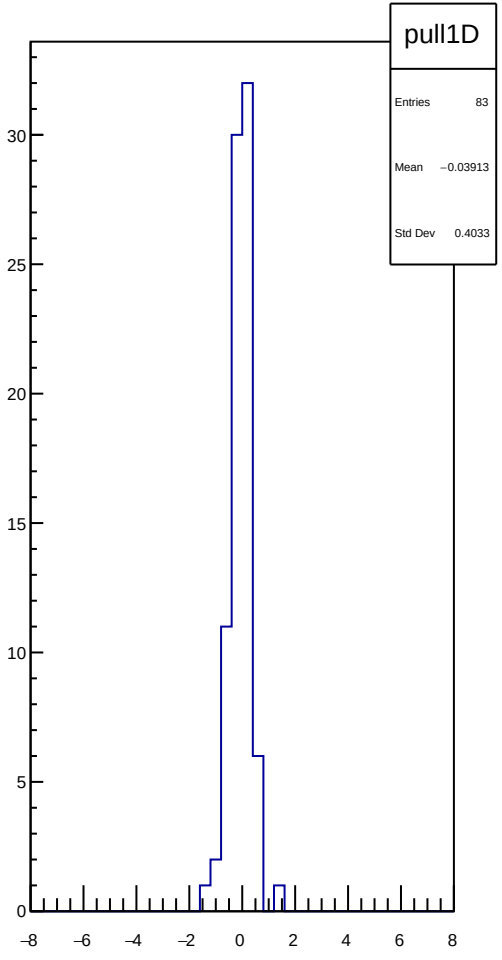

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.18 / 82
p0 −42.15 ± 0.591
pull
Entries 83
Mean 216.3
Std Dev 164
pull1D
Entries 83
Mean −0.04403
Std Dev 0.549

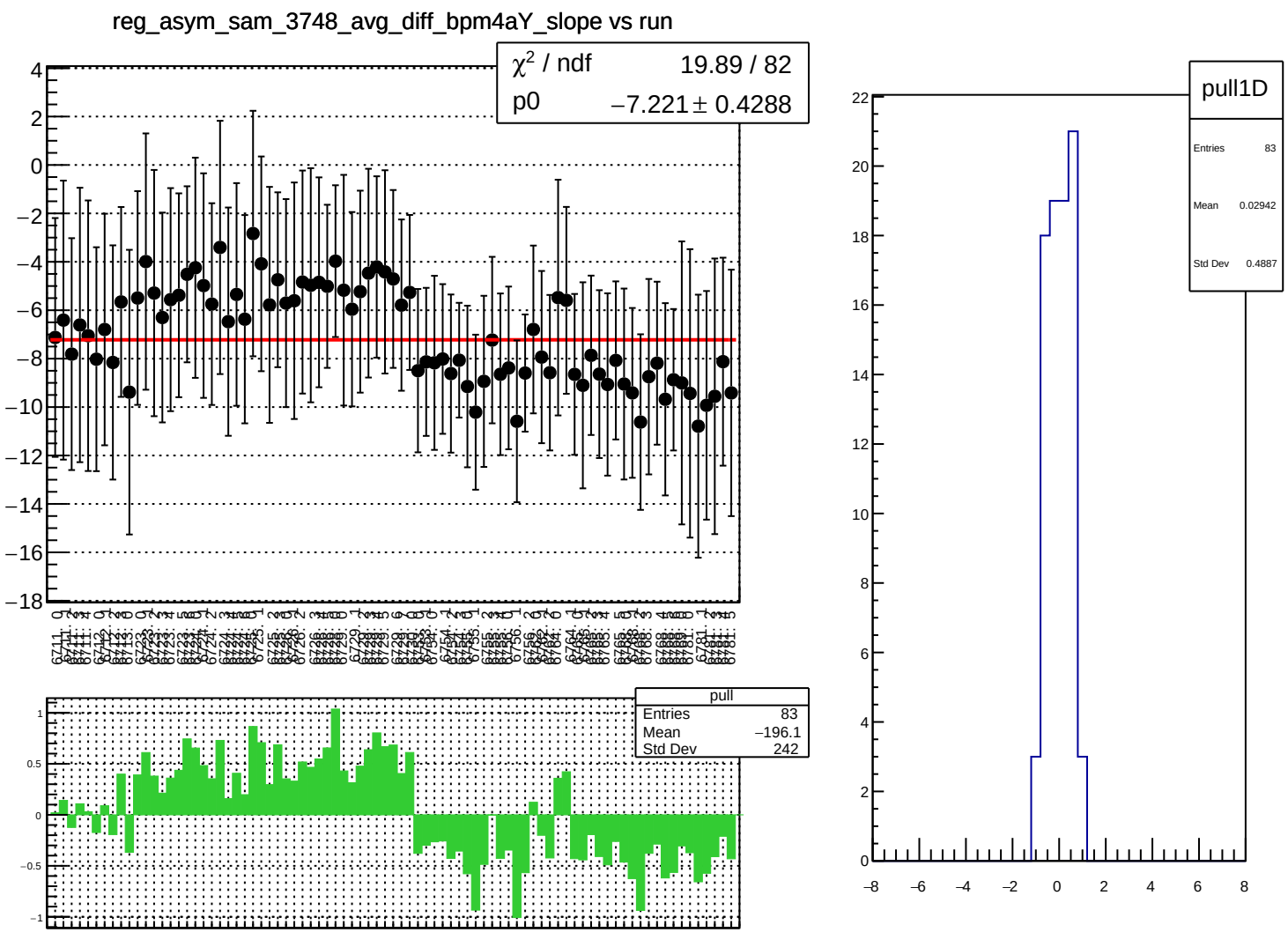

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.85 / 82
p0 79.93 ± 0.485
pull
Entries 83
Mean −2898
Std Dev 2945

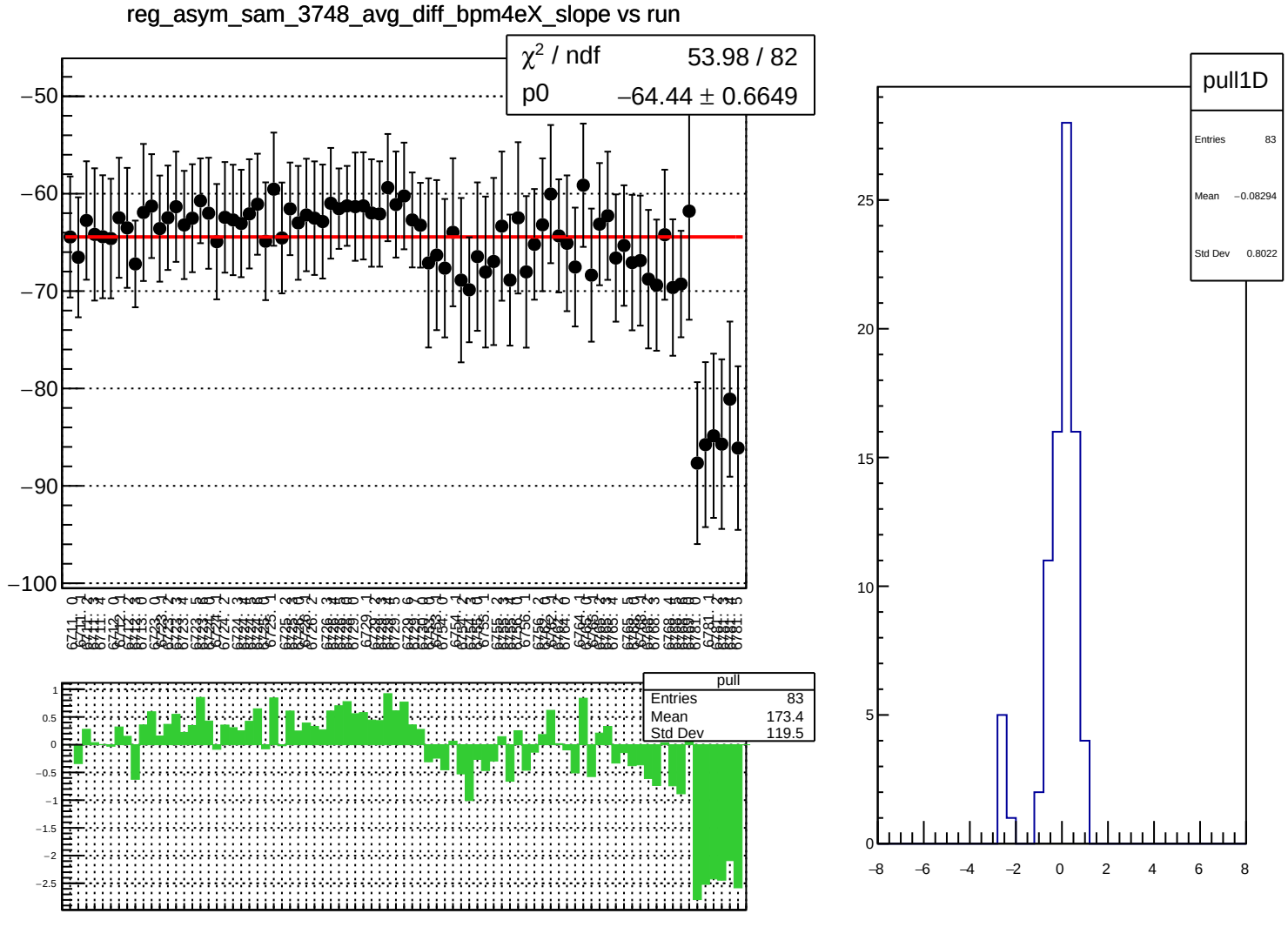

pull1D
Entries 83
Mean −0.004291
Std Dev 0.7904

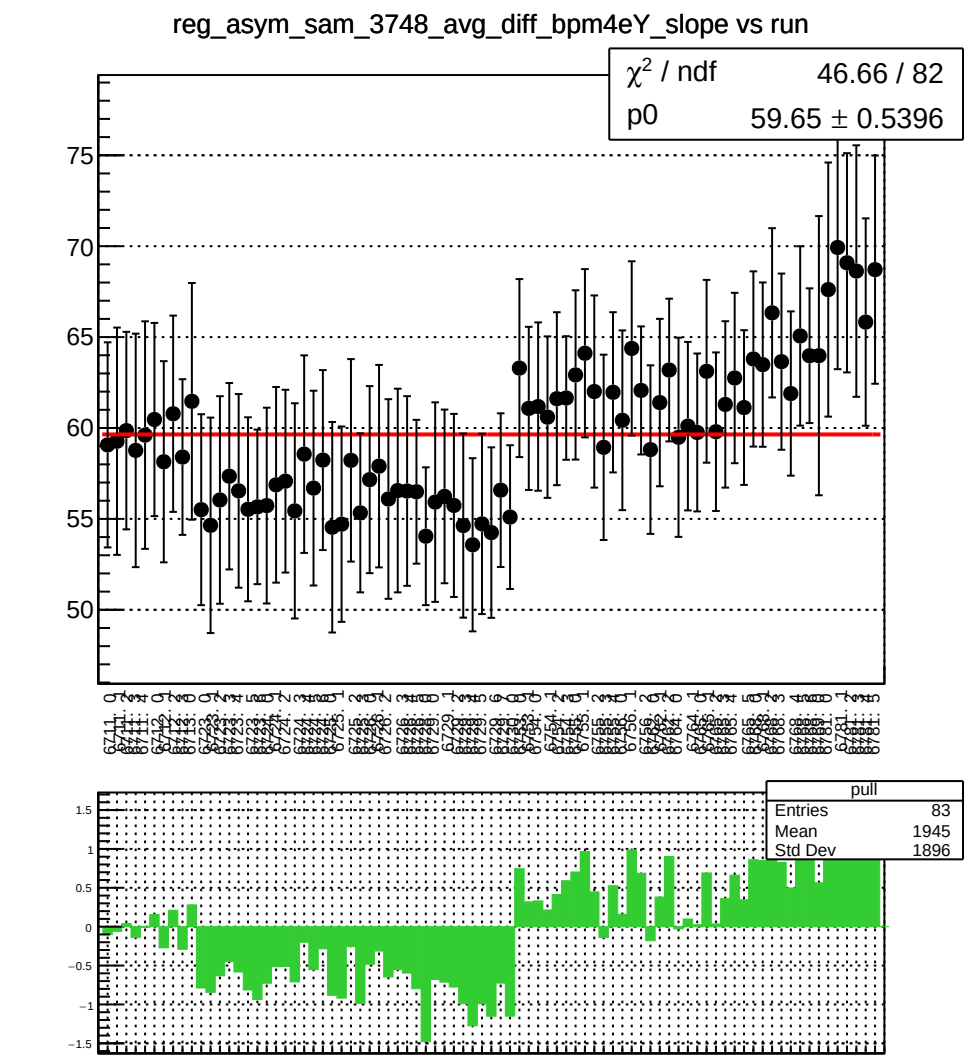

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 27.28 / 82
p0 −0.1007 ± 0.02767
pull
Entries 83
Mean 383.5
Std Dev 324.4
pull1D
Entries 83
Mean 0.01418
Std Dev 0.5731

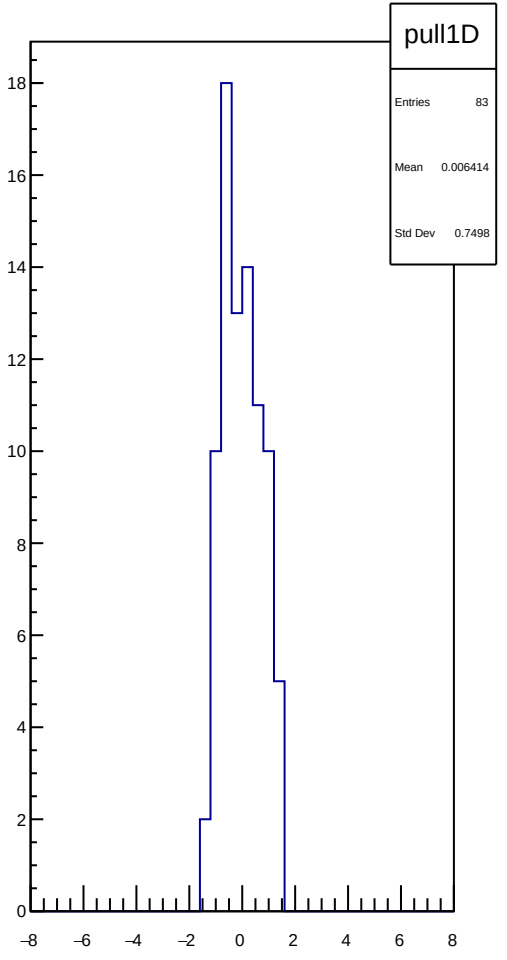

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 13.63 / 82
p0 −1.476 ± 0.6922
pull
Entries 83
Mean 205
Std Dev 164.2

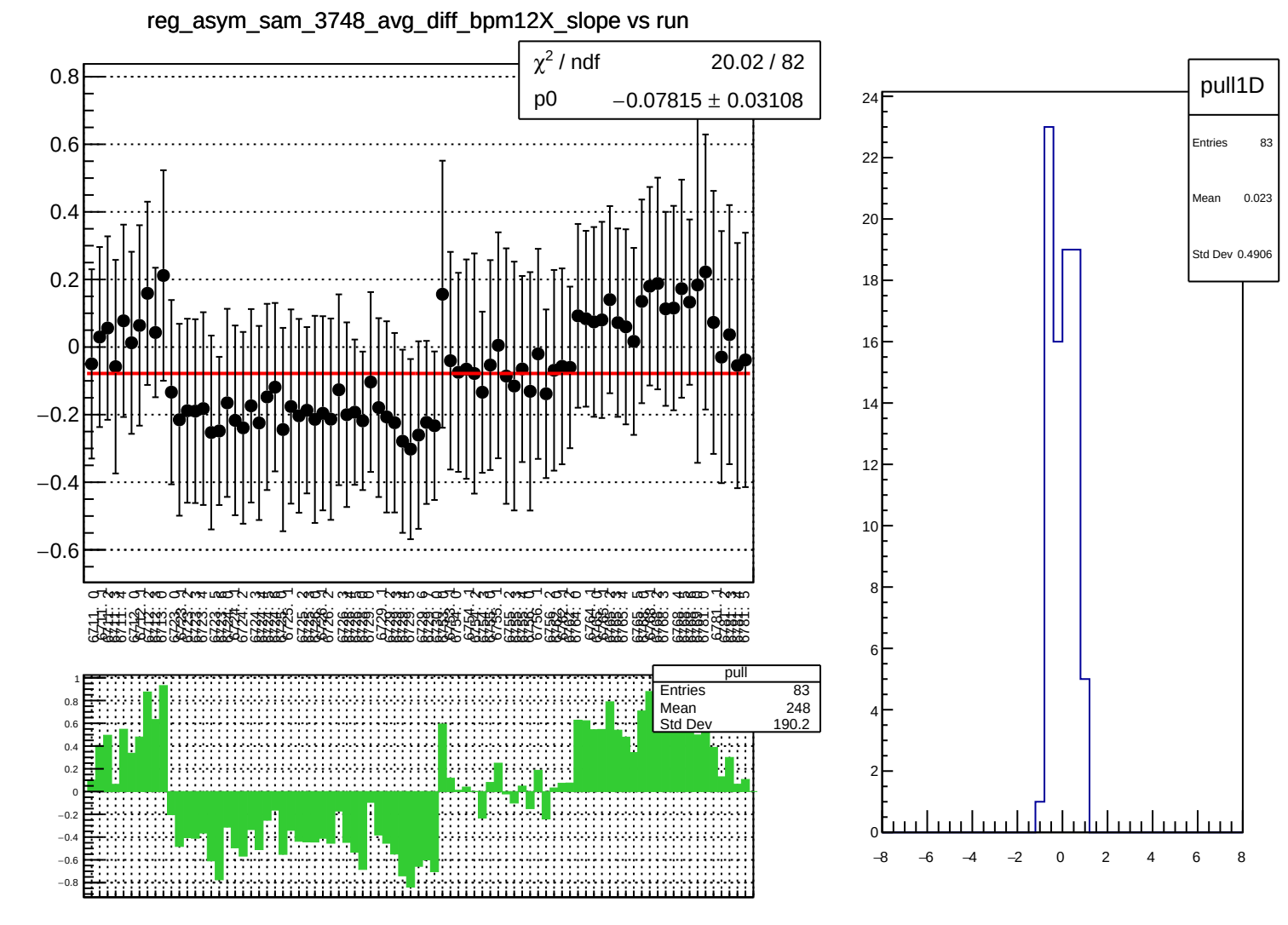

pull1D
Entries 83
Mean −0.03913
Std Dev 0.4033

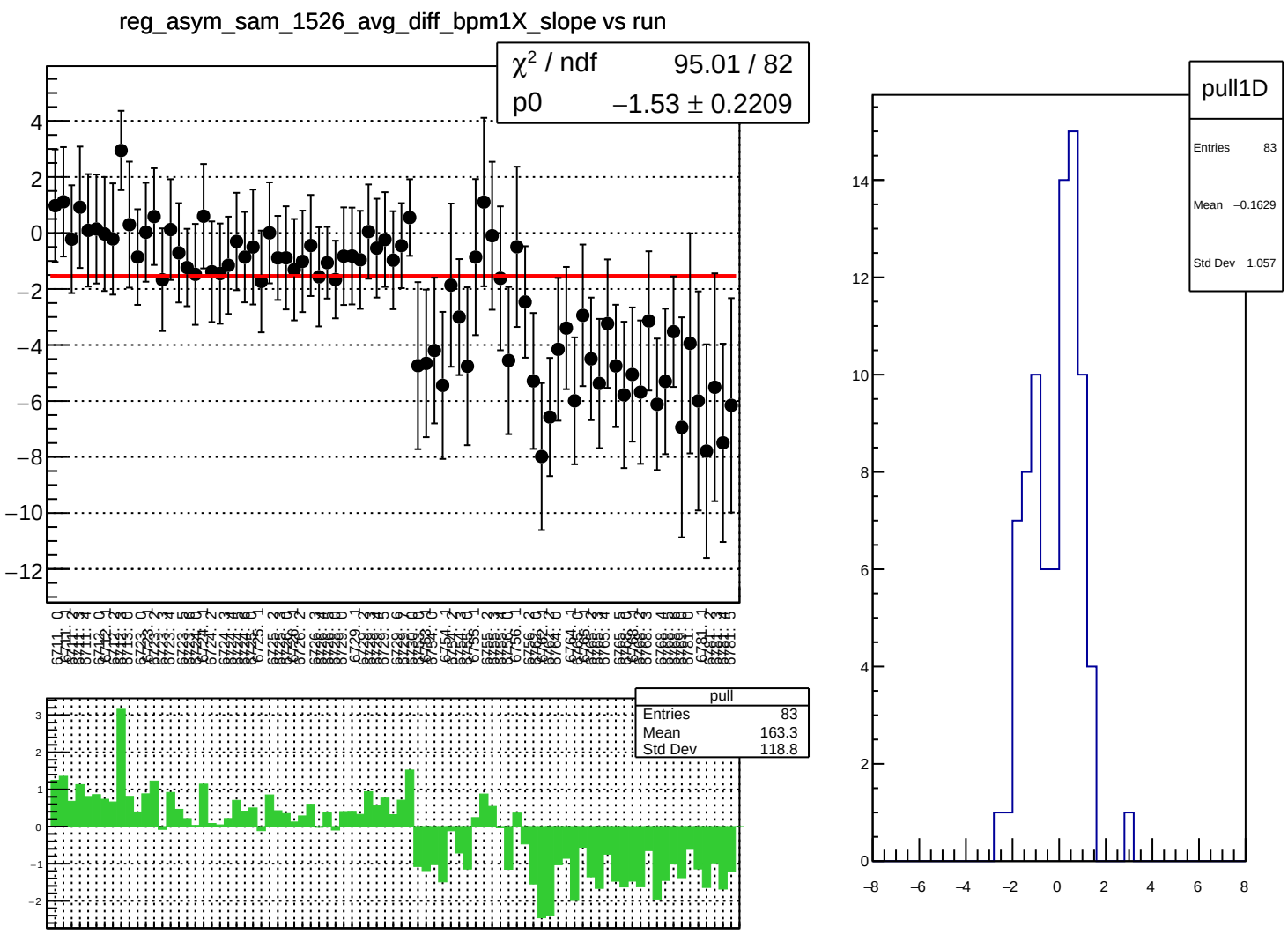

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.89 / 82
p0 −7.221 ± 0.4288
pull
Entries 83
Mean −196.1
Std Dev 242
pull1D
Entries 83
Mean 0.02942
Std Dev 0.4887

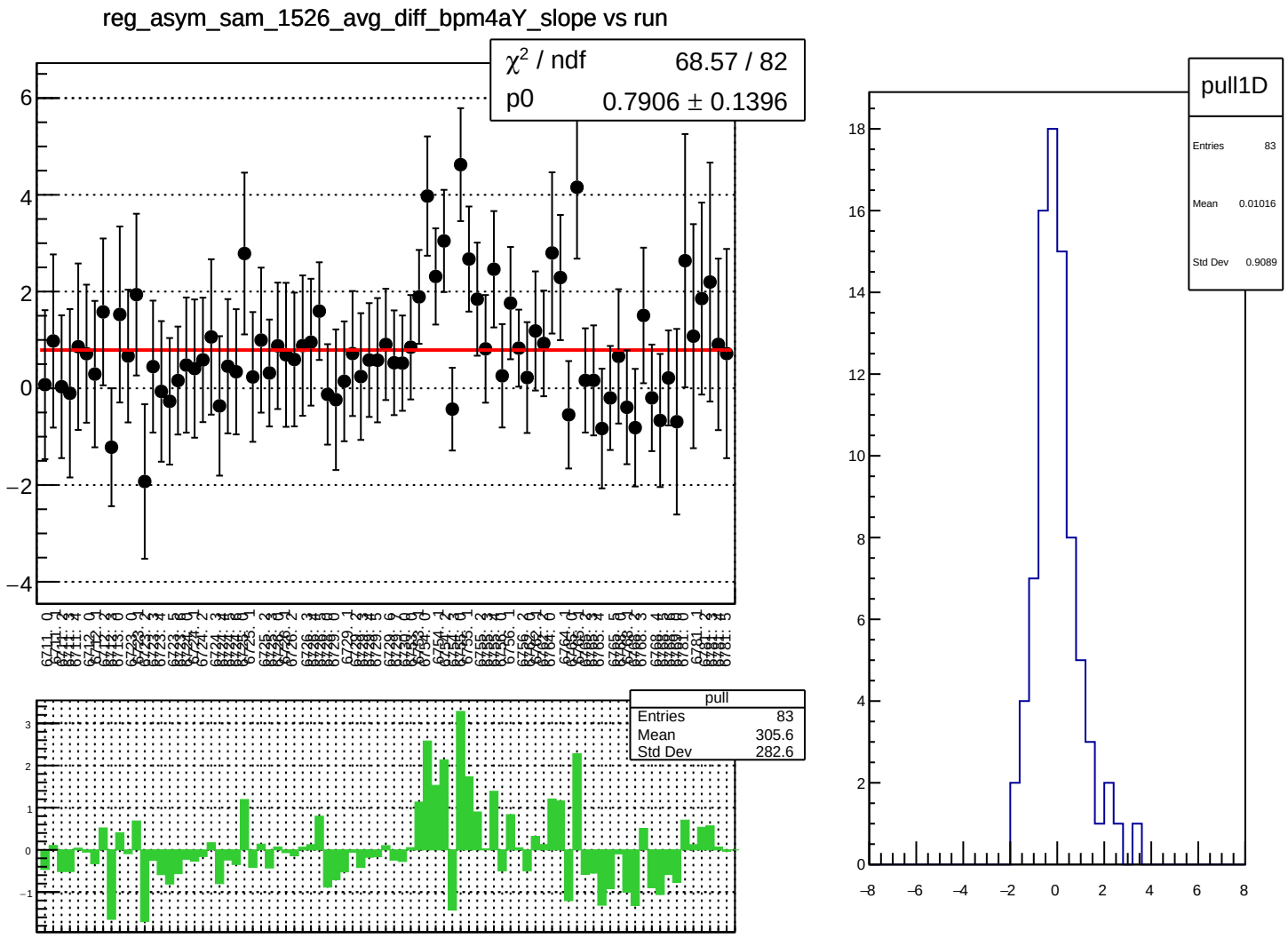

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 53.98 / 82
p0 −64.44 ± 0.6649
−50
−60
−70
−80
−90
−100
pull
Entries 83
Mean 173.4
Std Dev 119.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 83
Mean −0.08294
Std Dev 0.8022
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

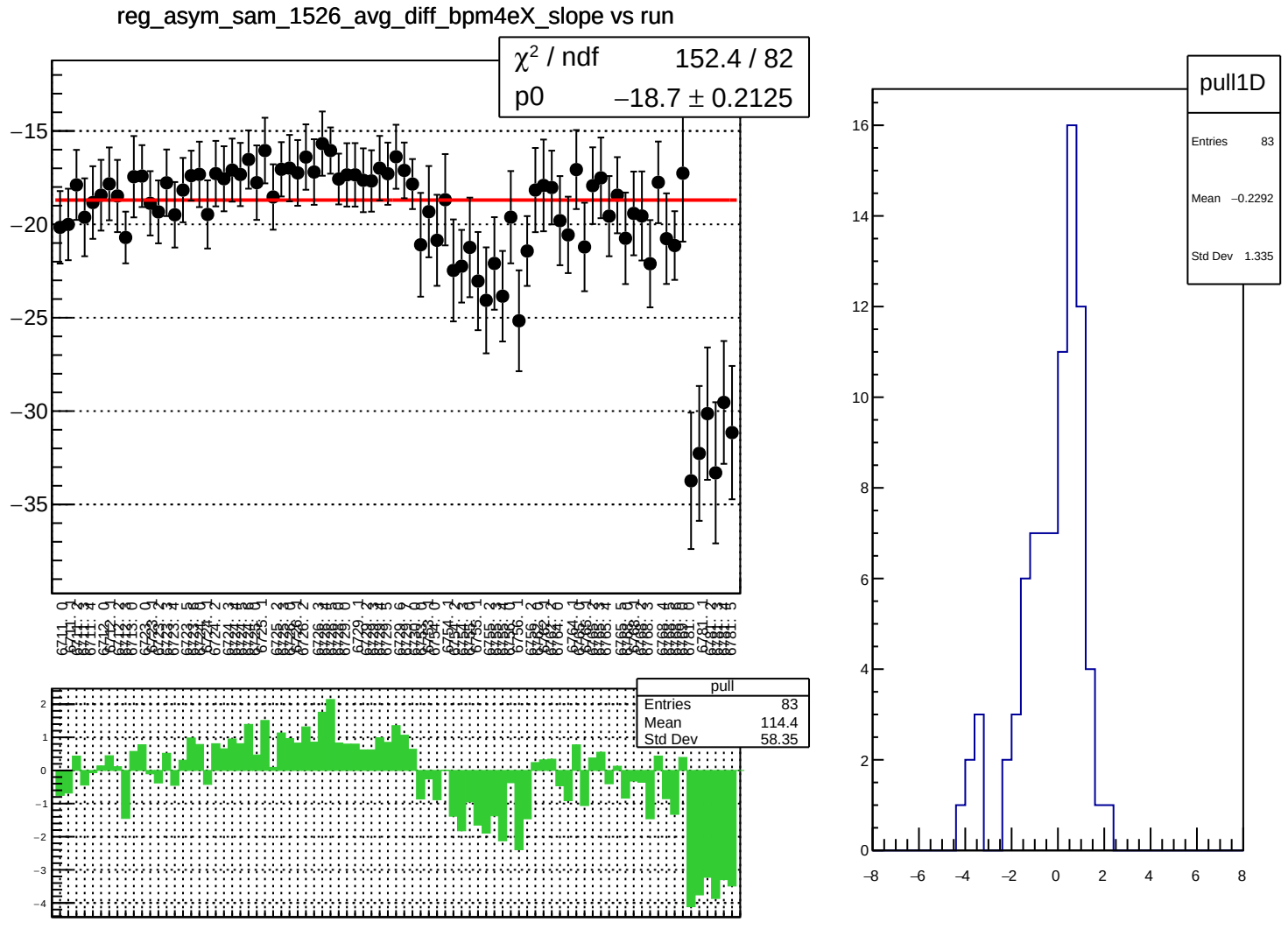

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 46.66 / 82
p0 59.65 ± 0.5396
pull
Entries 83
Mean 1945
Std Dev 1896

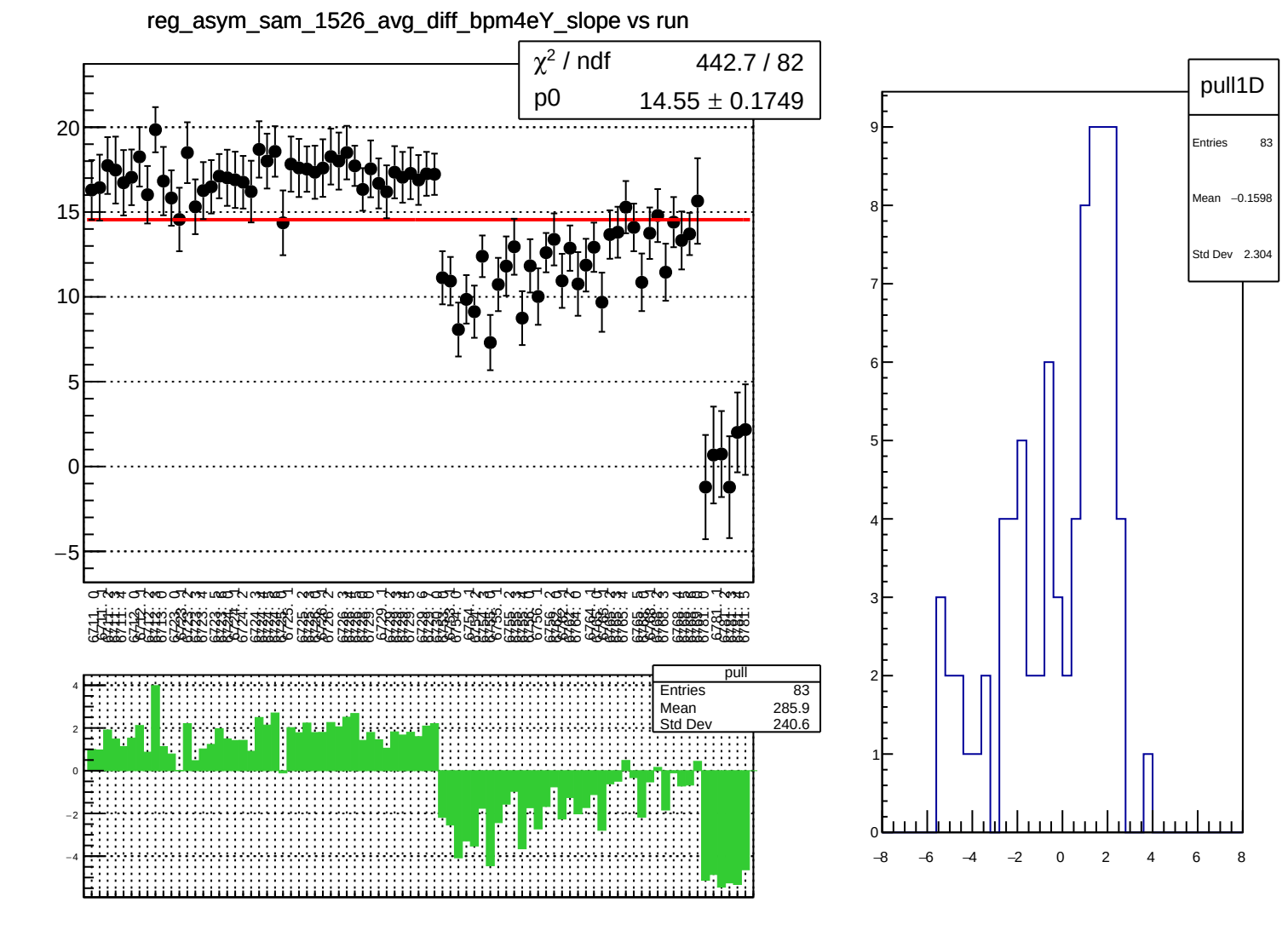

pull1D
Entries 83
Mean 0.006414
Std Dev 0.7498

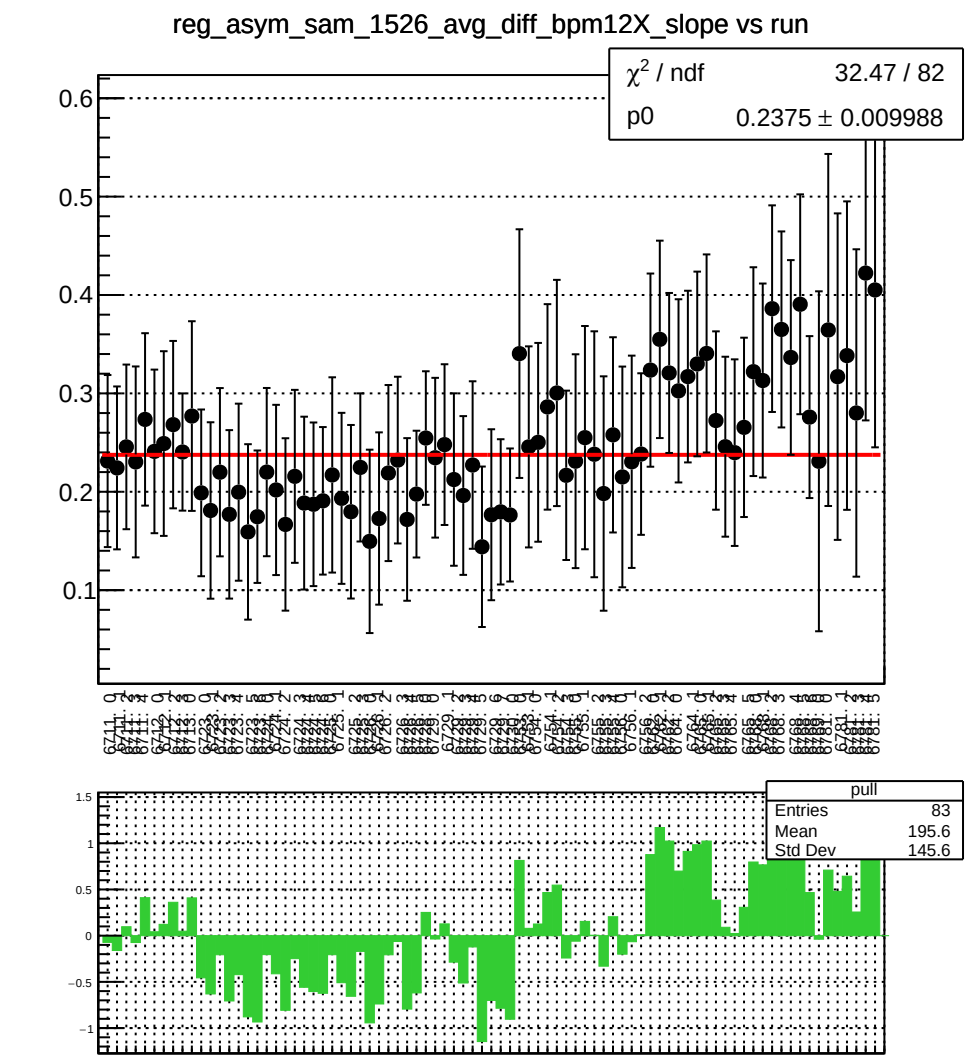

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 20.02 / 82
p0 −0.07815 ± 0.03108
pull
Entries 83
Mean 248
Std Dev 190.2
pull1D
Entries 83
Mean 0.023
Std Dev 0.4906

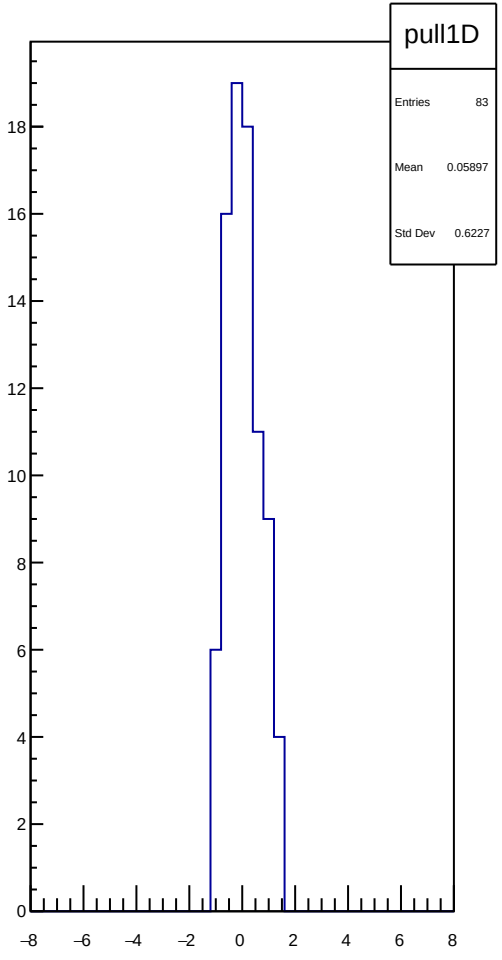

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 95.01 / 82
p0 −1.53 ± 0.2209
pull
Entries 83
Mean 163.3
Std Dev 118.8
pull1D
Entries 83
Mean −0.1629
Std Dev 1.057

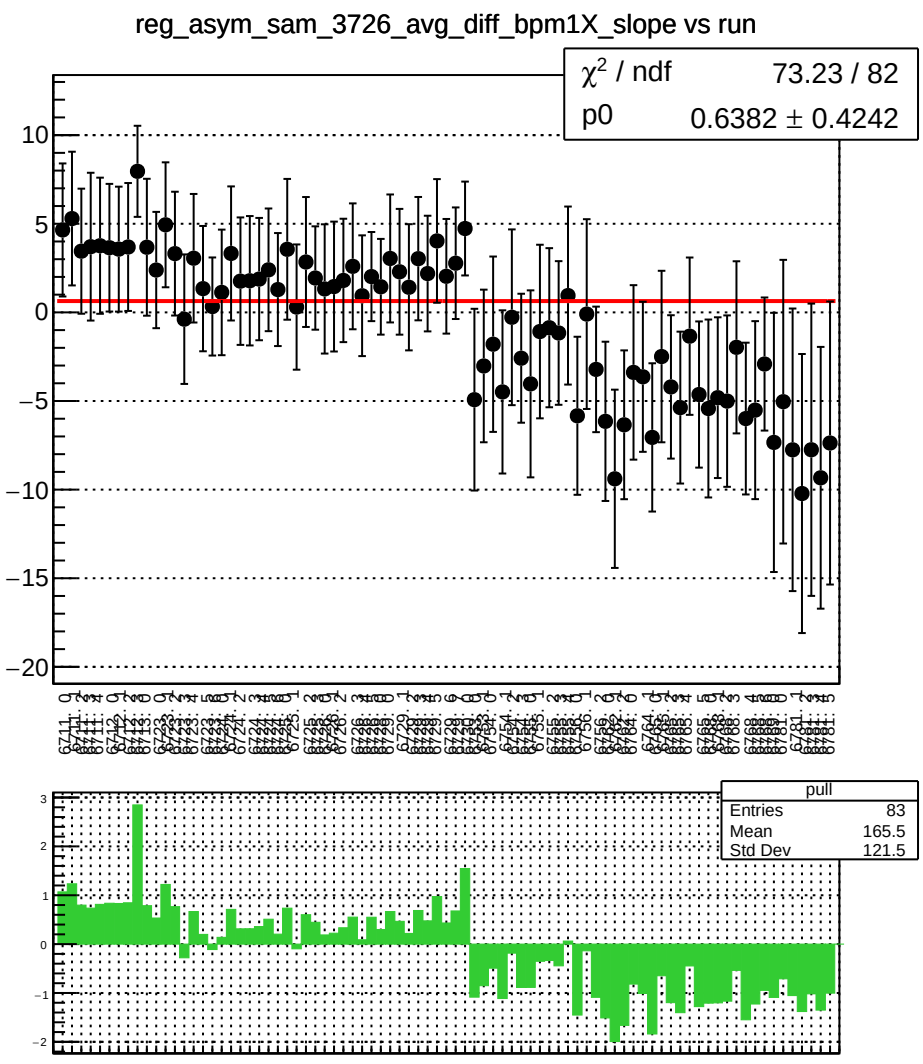

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 68.57 / 82
p0 0.7906 ± 0.1396
pull
Entries 83
Mean 305.6
Std Dev 282.6
pull1D
Entries 83
Mean 0.01016
Std Dev 0.9089

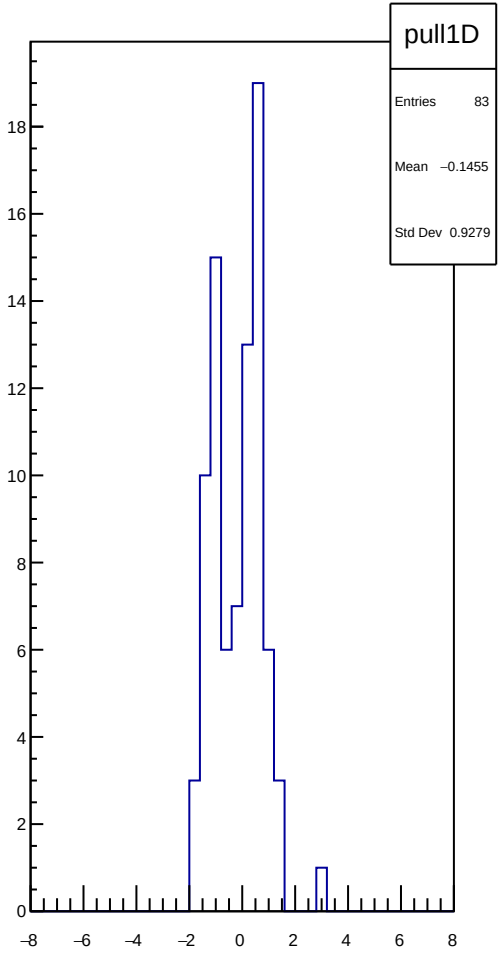

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 152.4 / 82
p0 −18.7 ± 0.2125
pull
Entries 83
Mean 114.4
Std Dev 58.35
pull1D
Entries 83
Mean −0.2292
Std Dev 1.335

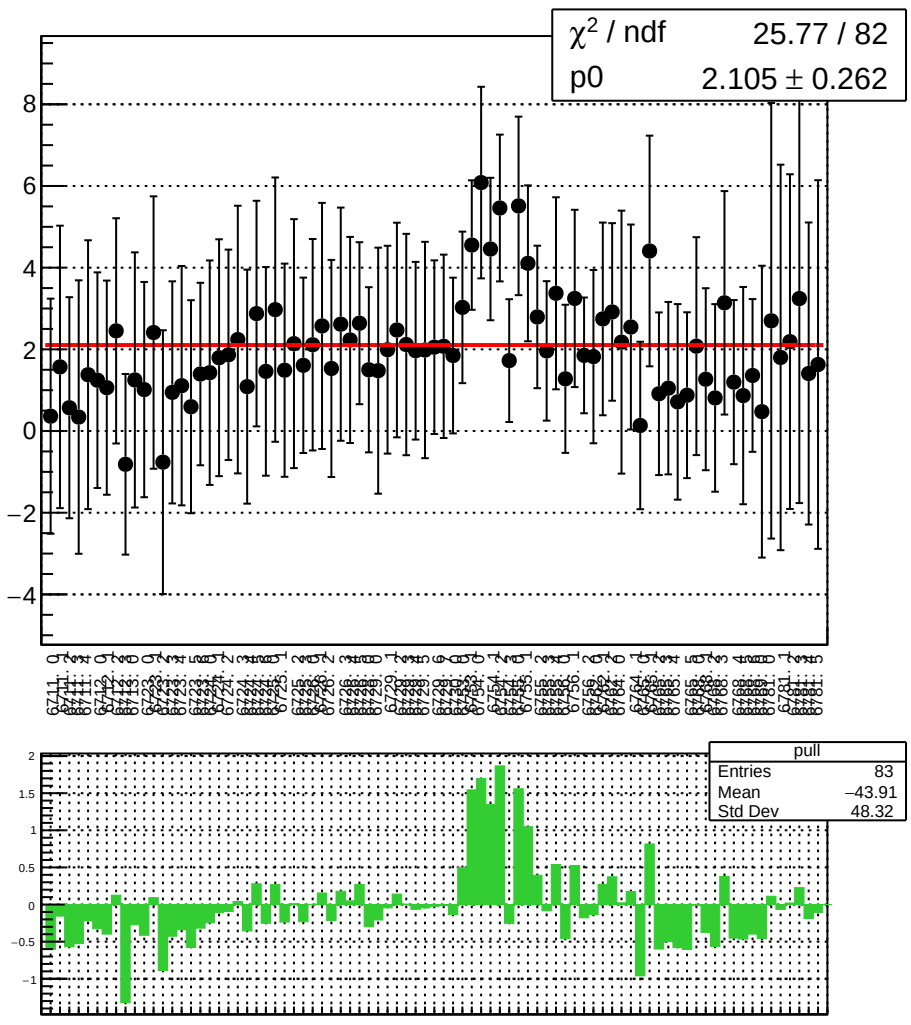

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 442.7 / 82
p0 14.55 ± 0.1749
pull
Entries 83
Mean 285.9
Std Dev 240.6
pull1D
Entries 83
Mean −0.1598
Std Dev 2.304

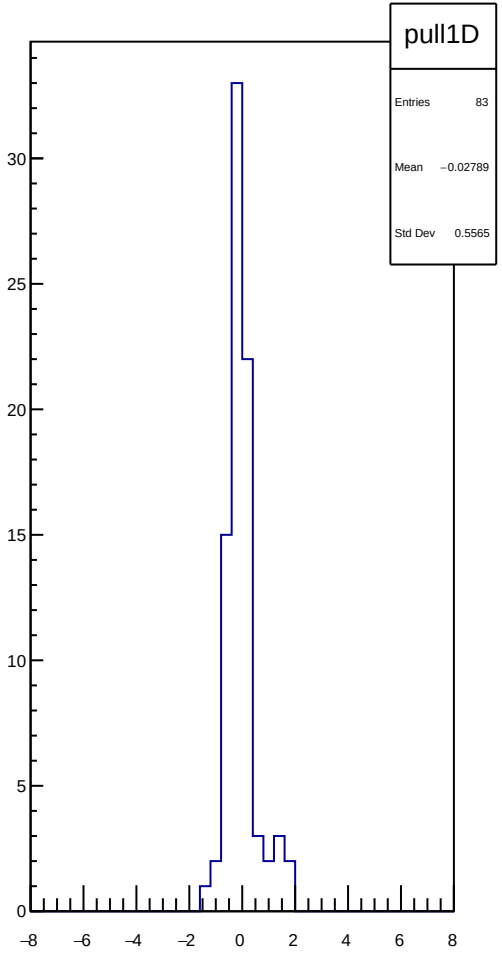

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 32.47 / 82
p0 0.2375 ± 0.009988
pull
Entries 83
Mean 195.6
Std Dev 145.6

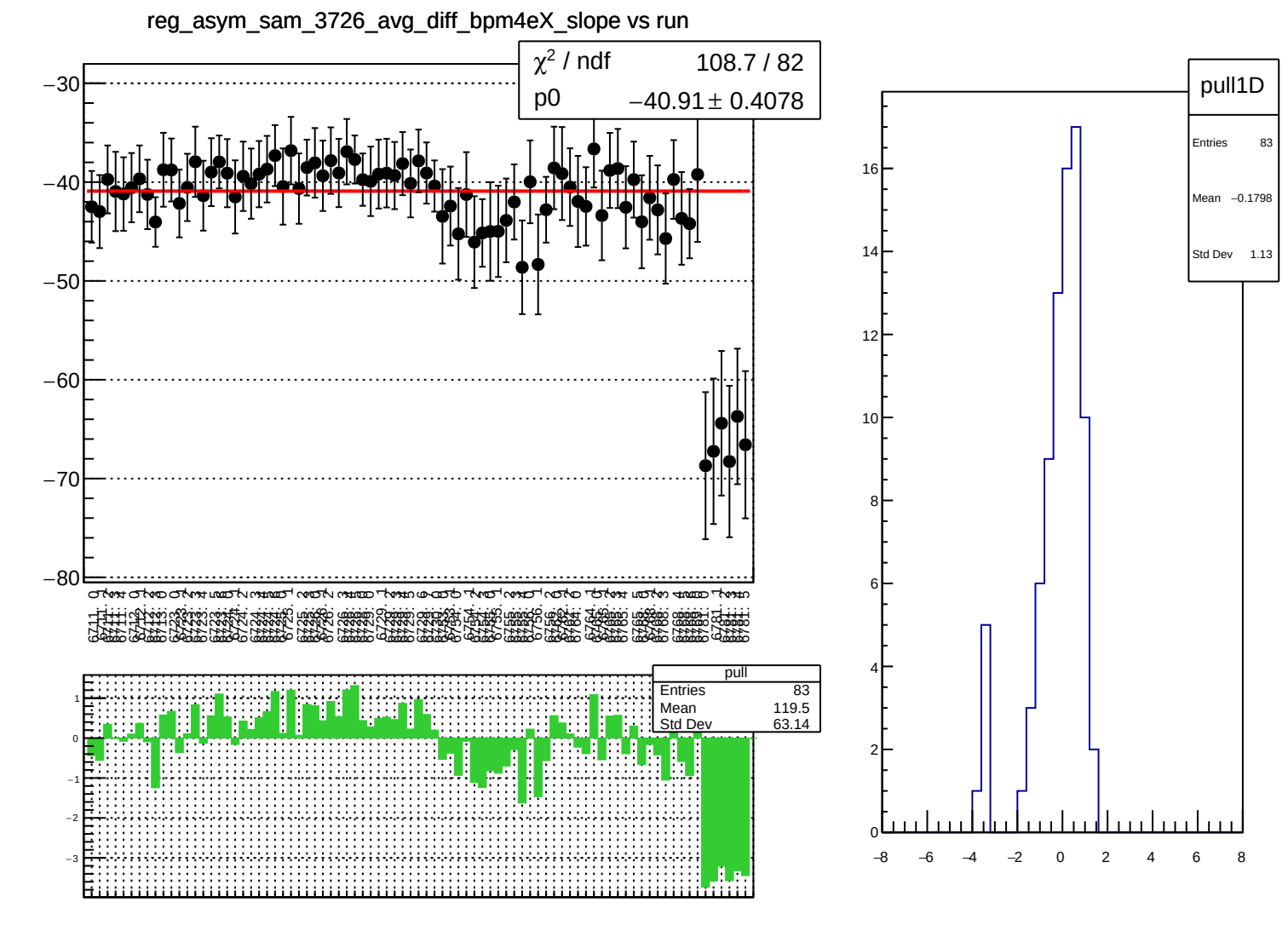

pull1D
Entries 83
Mean 0.05897
Std Dev 0.6227

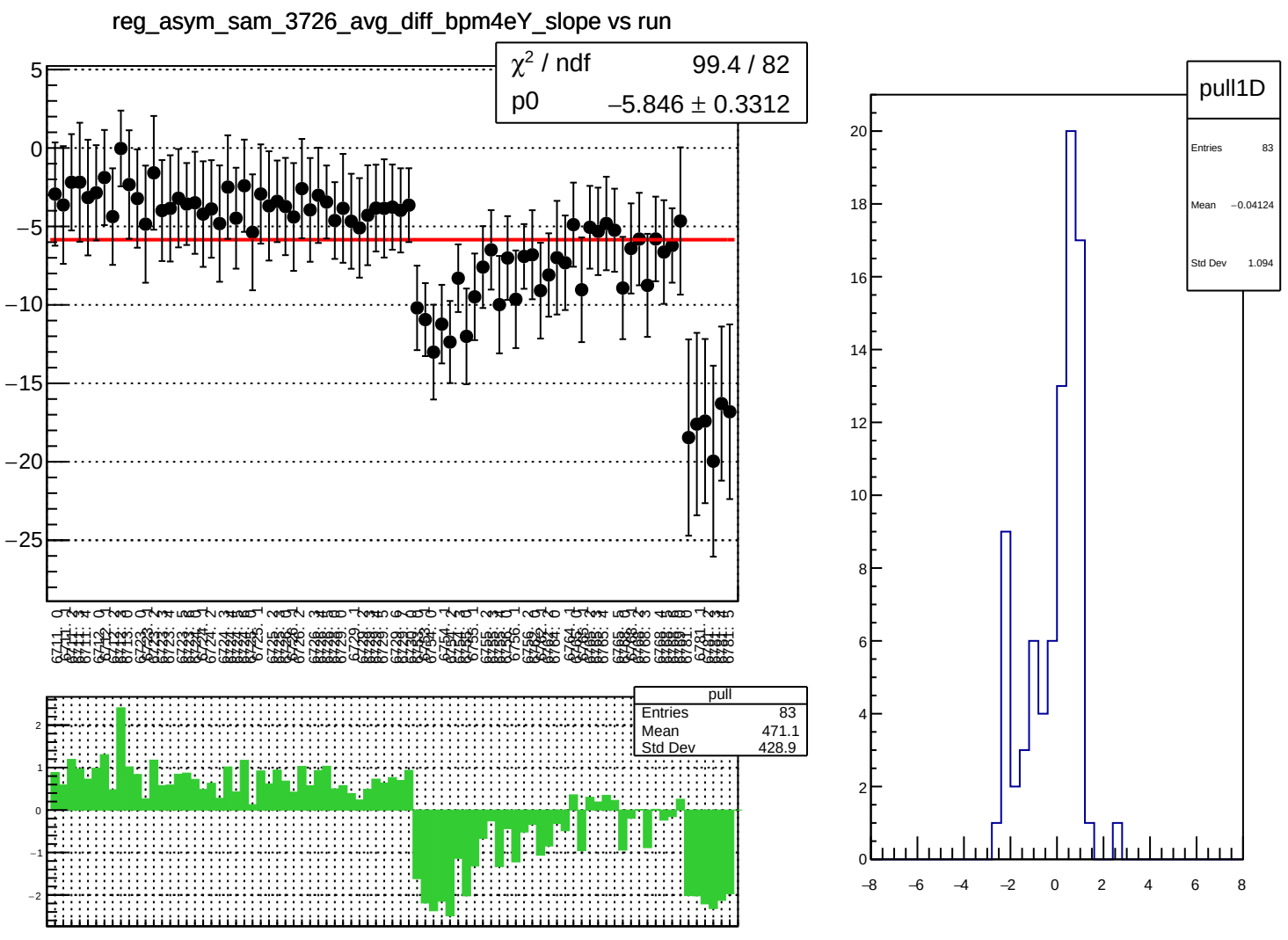

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 73.23 / 82
p0 0.6382 ± 0.4242
pull
Entries 83
Mean 165.5
Std Dev 121.5

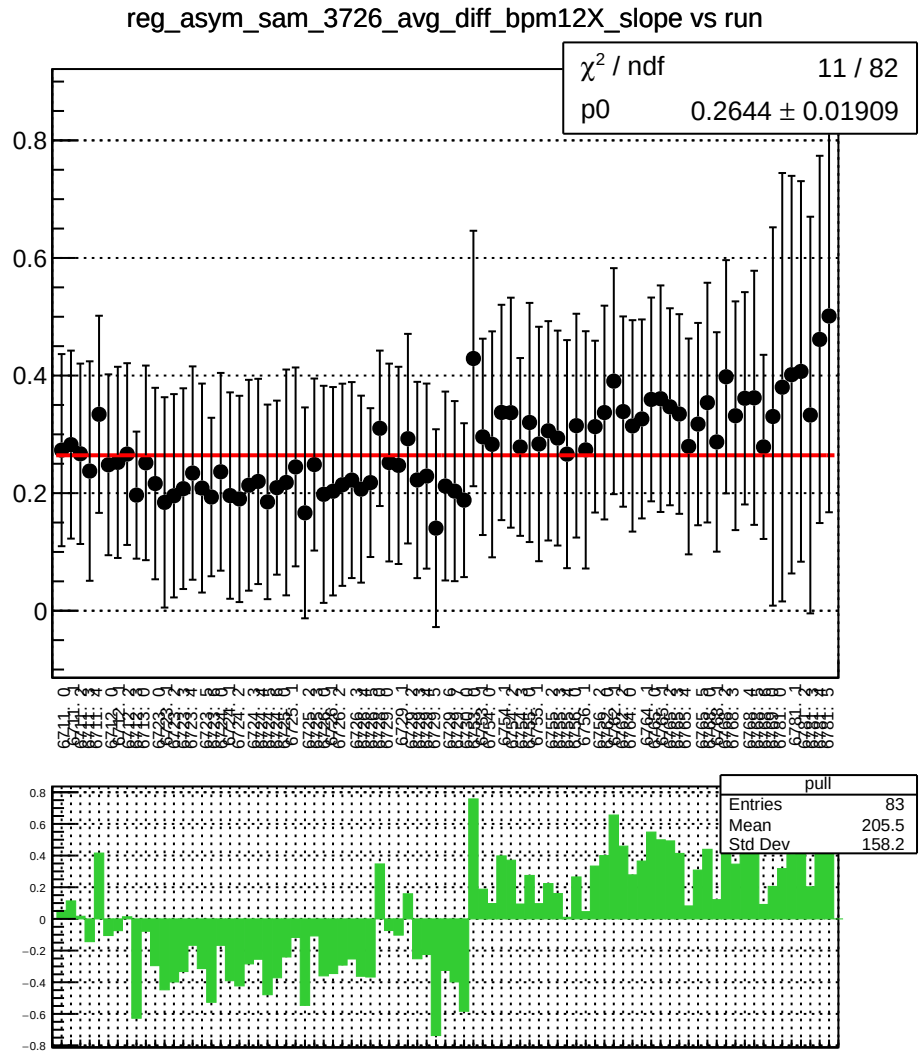

pull1D
Entries 83
Mean −0.1455
Std Dev 0.9279

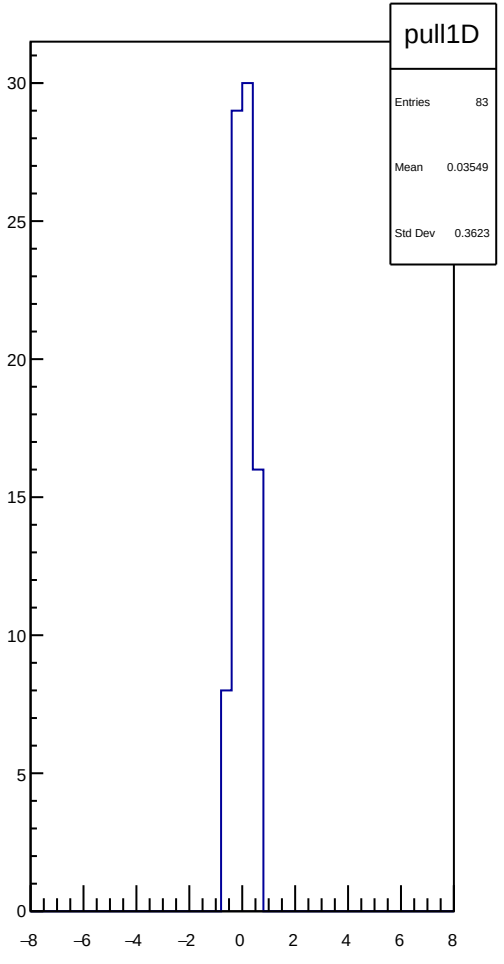

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.77 / 82
p0 2.105 ± 0.262
pull
Entries 83
Mean −43.91
Std Dev 48.32

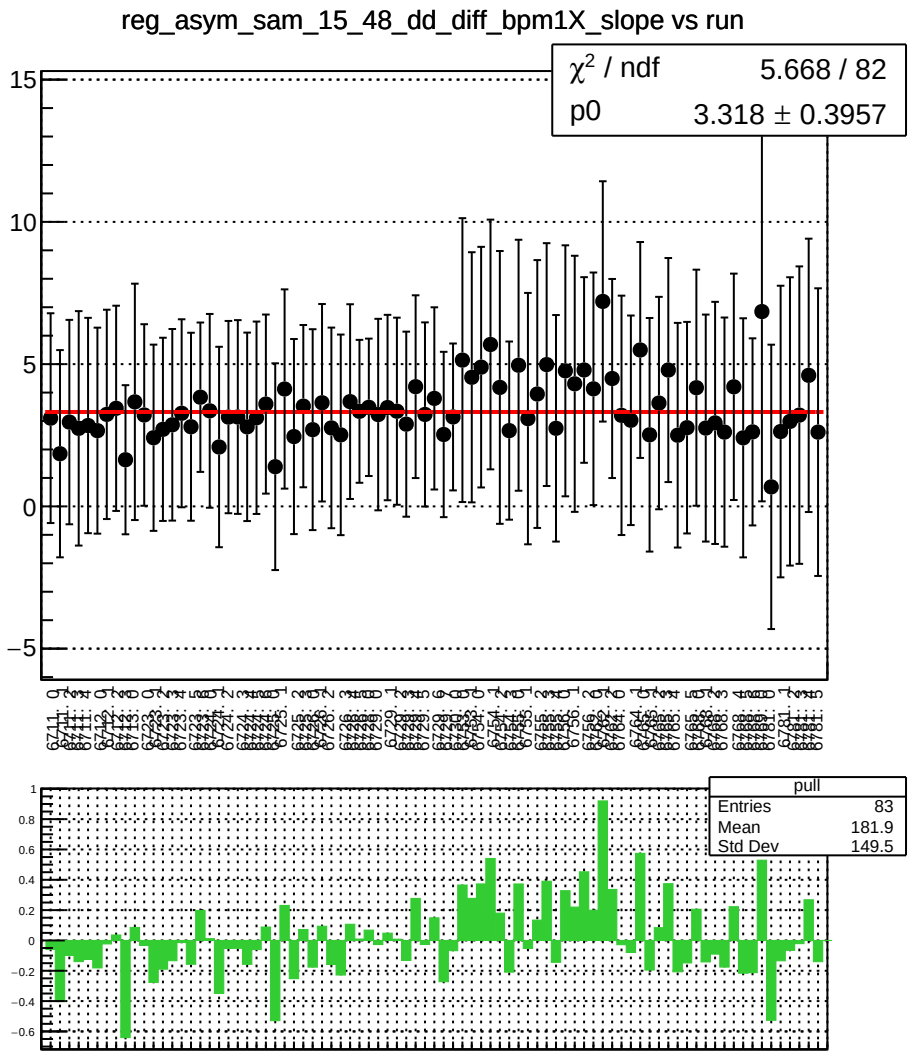

pull1D
Entries 83
Mean −0.02789
Std Dev 0.5565

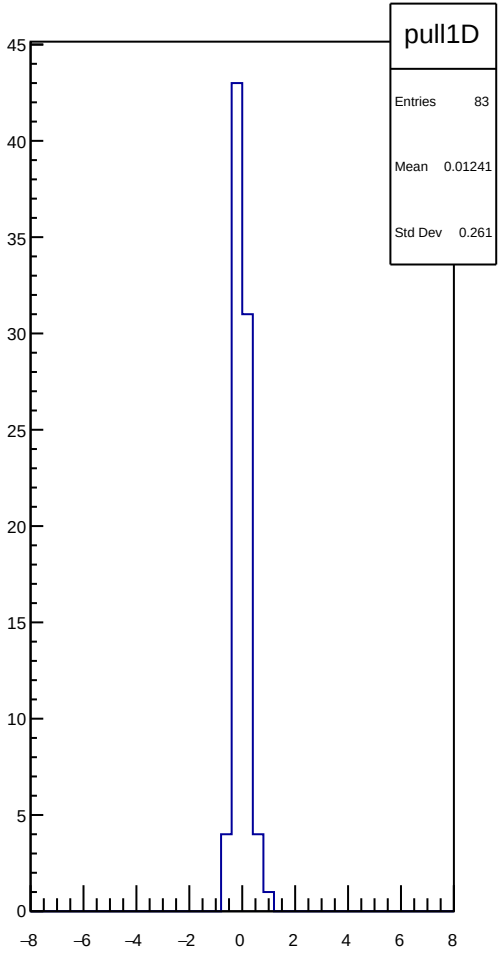

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 108.7 / 82
p0 −40.91 ± 0.4078
pull
Entries 83
Mean 119.5
Std Dev 63.14
pull1D
Entries 83
Mean −0.1798
Std Dev 1.13

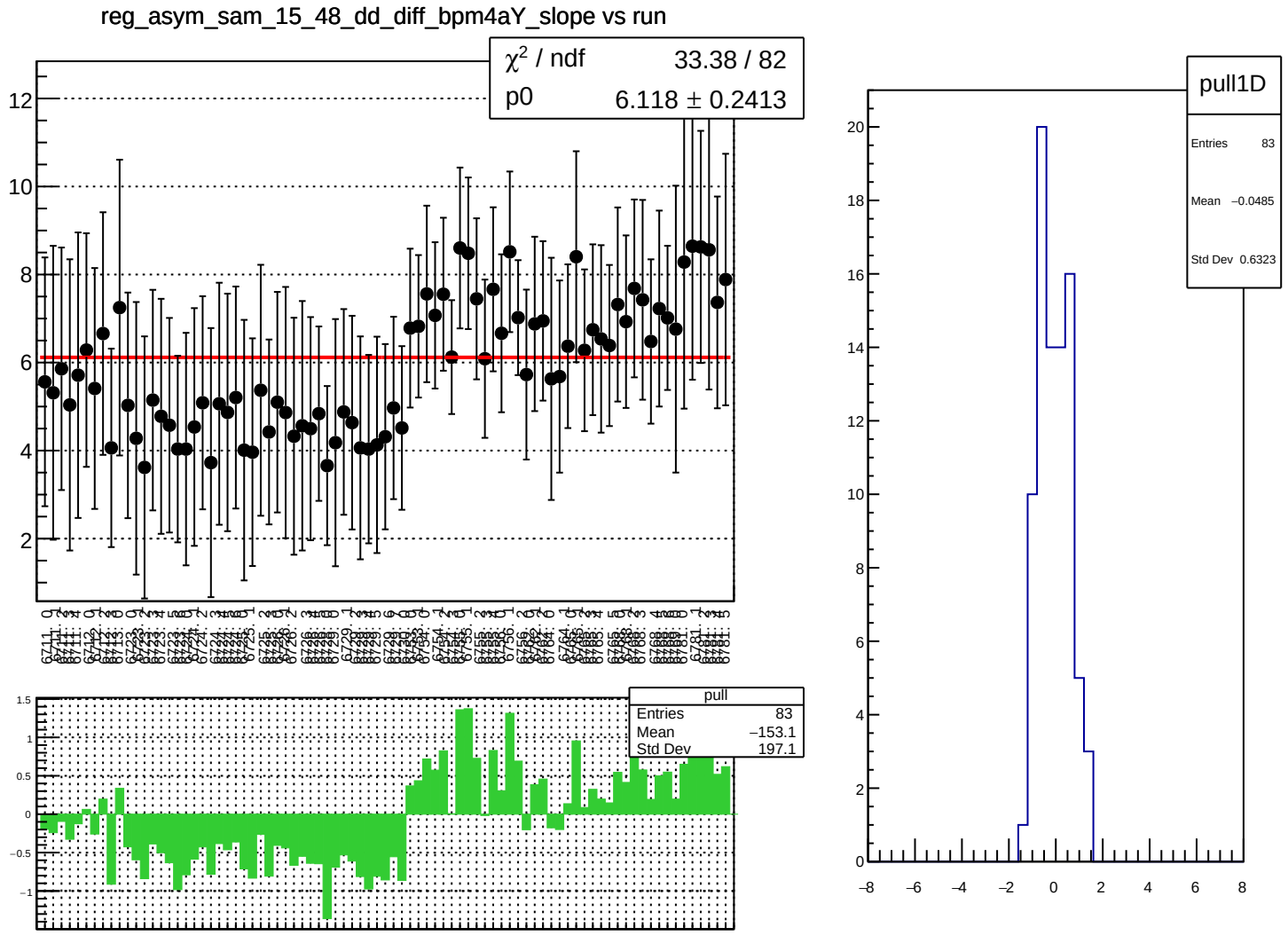

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 99.4 / 82
p0 −5.846 ± 0.3312
pull
Entries 83
Mean 471.1
Std Dev 428.9
pull1D
Entries 83
Mean −0.04124
Std Dev 1.094

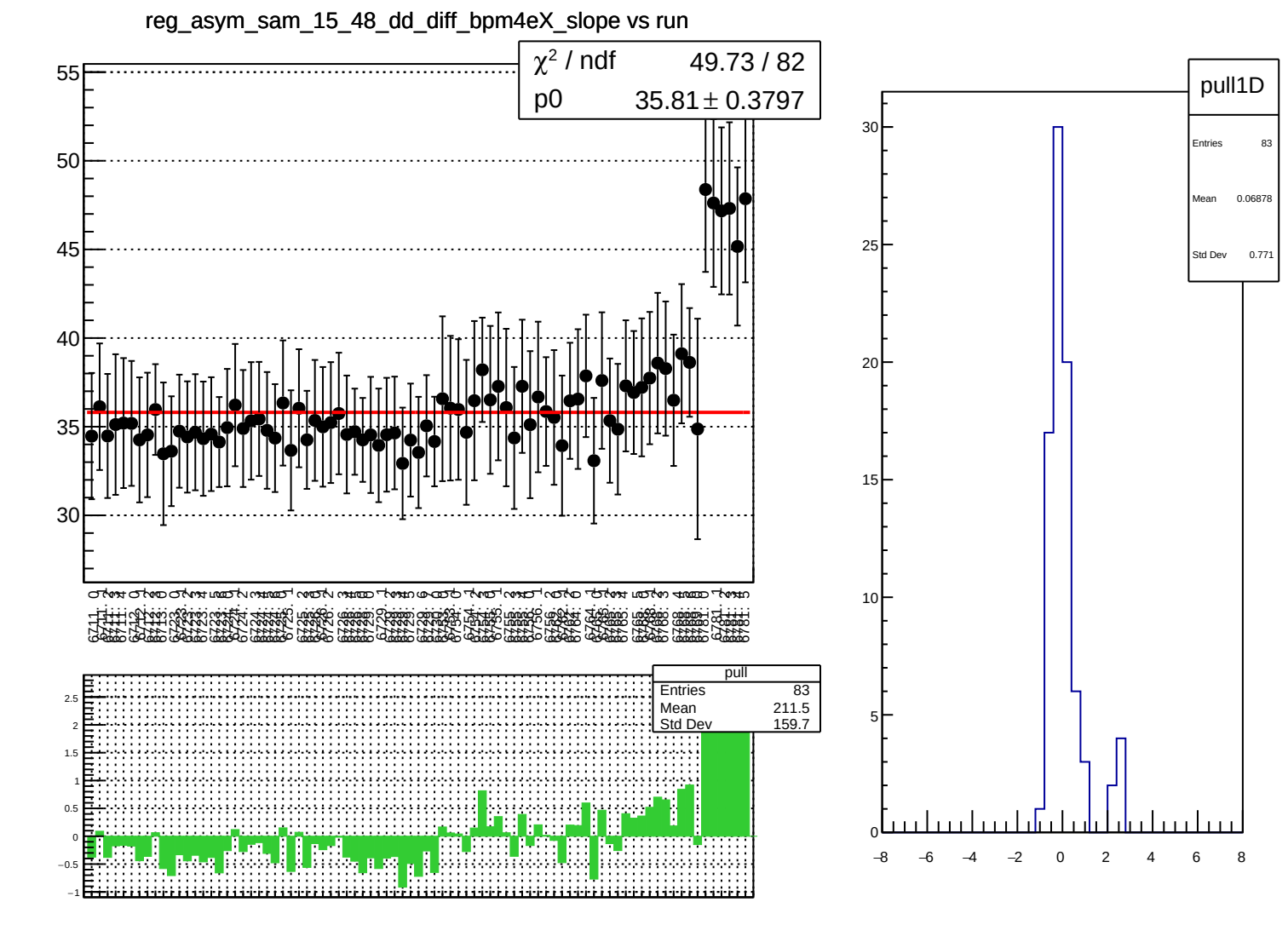

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 11 / 82
p0 0.2644 ± 0.01909
0.8
0.6
0.4
0.2
0
pull
Entries 83
Mean 205.5
Std Dev 158.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

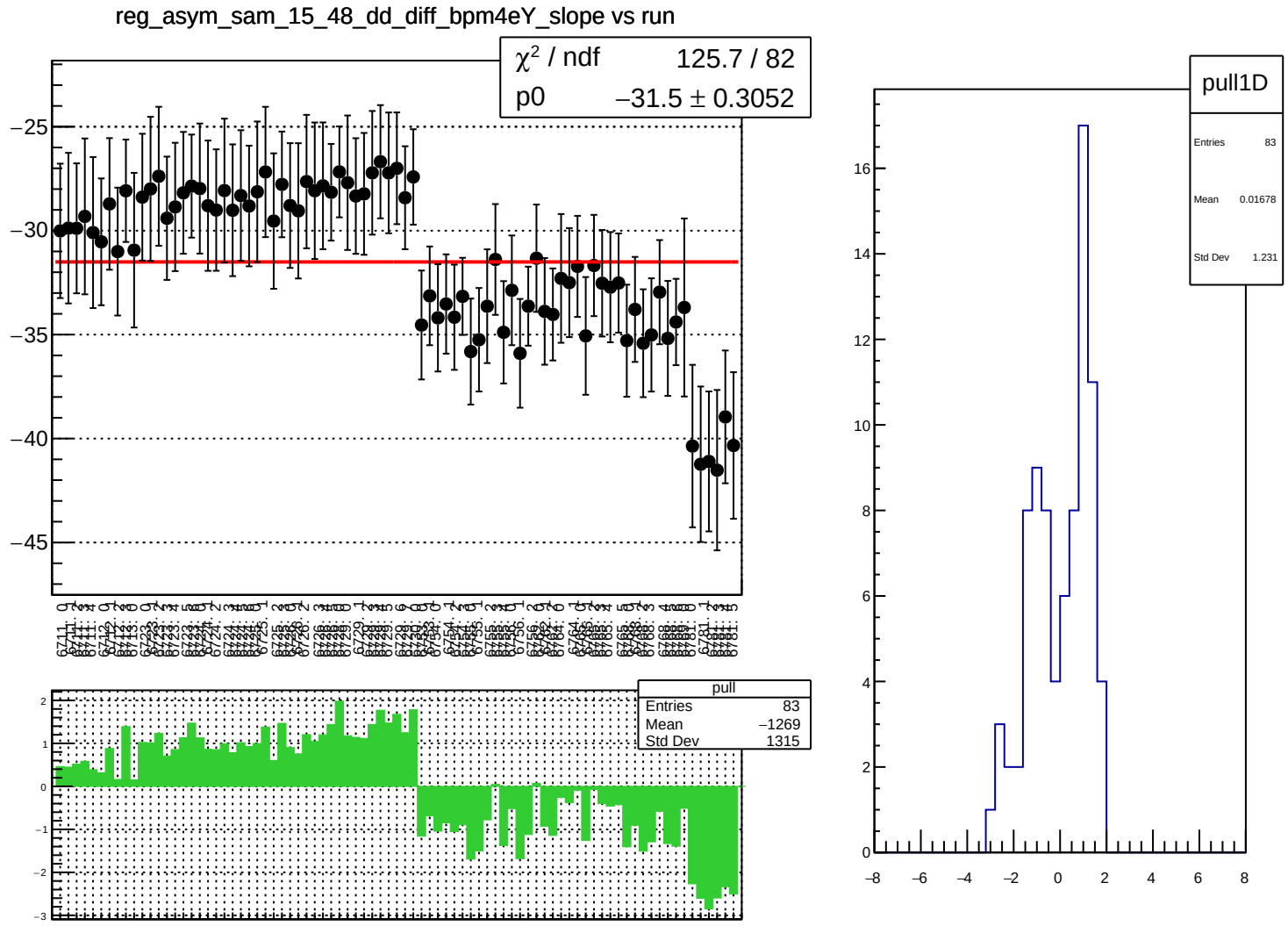

pull1D
Entries 83
Mean 0.03549
Std Dev 0.3623
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

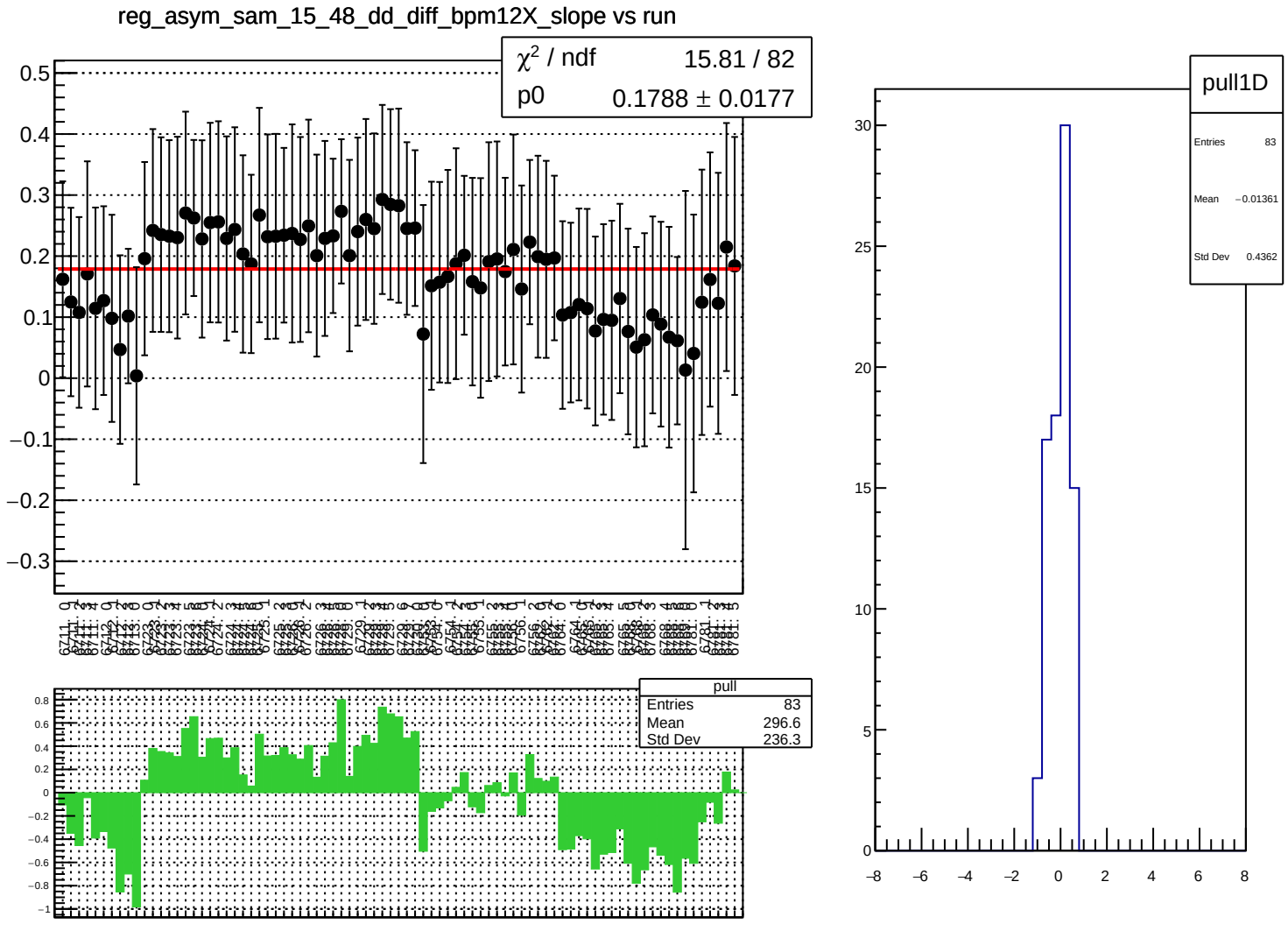

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 5.668 / 82
p0 3.318 ± 0.3957
pull
Entries 83
Mean 181.9
Std Dev 149.5

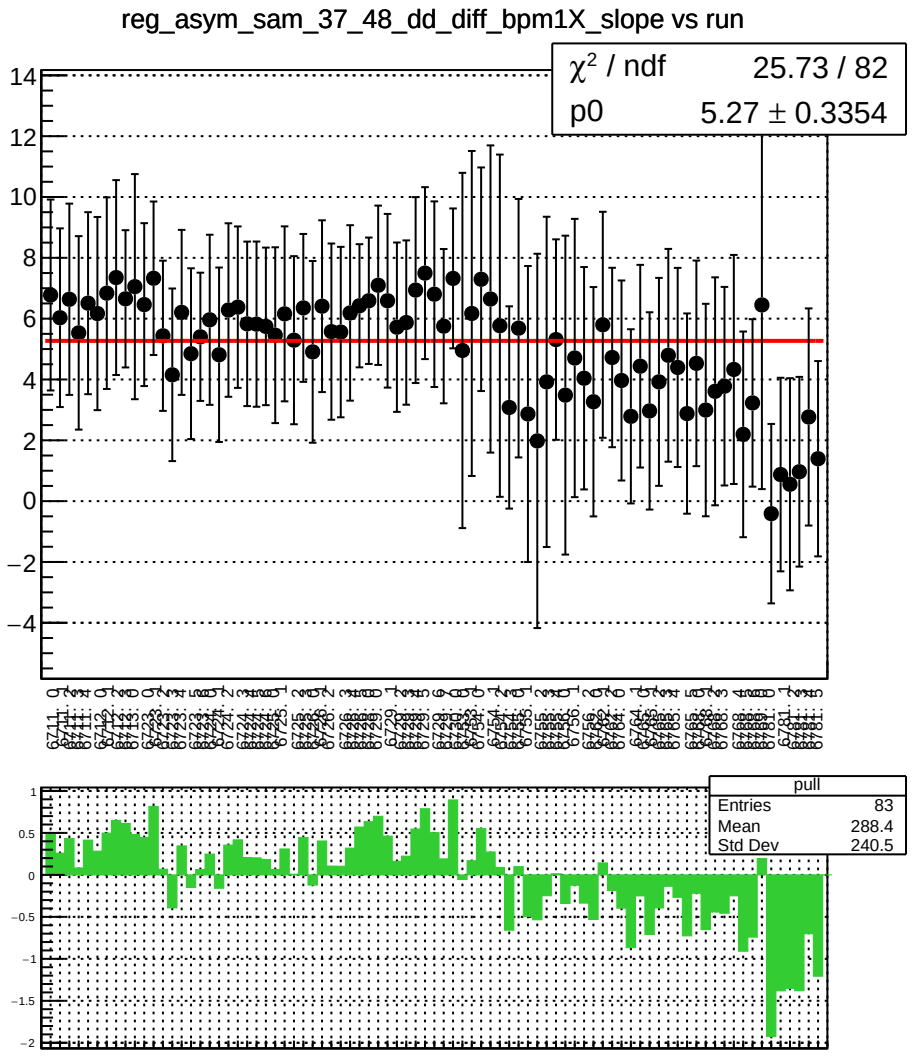

pull1D
Entries 83
Mean 0.01241
Std Dev 0.261

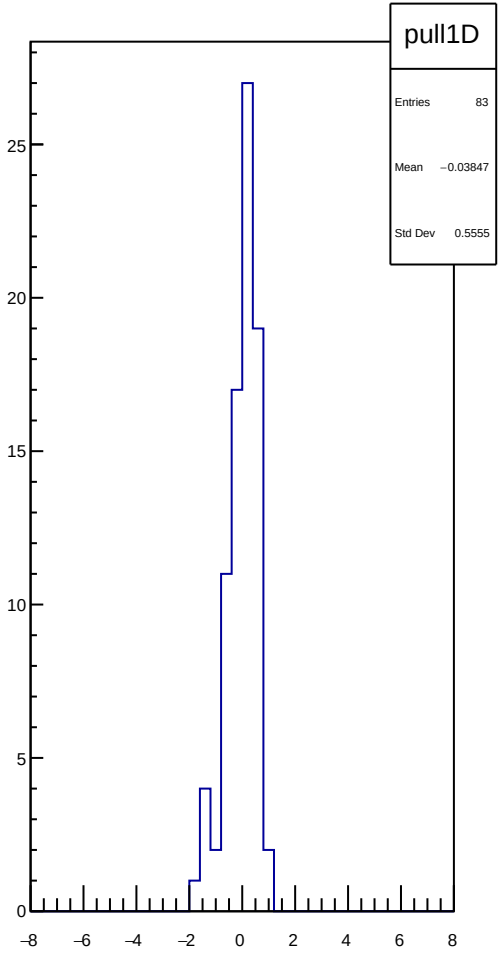

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.38 / 82
p0 6.118 ± 0.2413
pull
Entries 83
Mean −153.1
Std Dev 197.1
pull1D
Entries 83
Mean −0.0485
Std Dev 0.6323

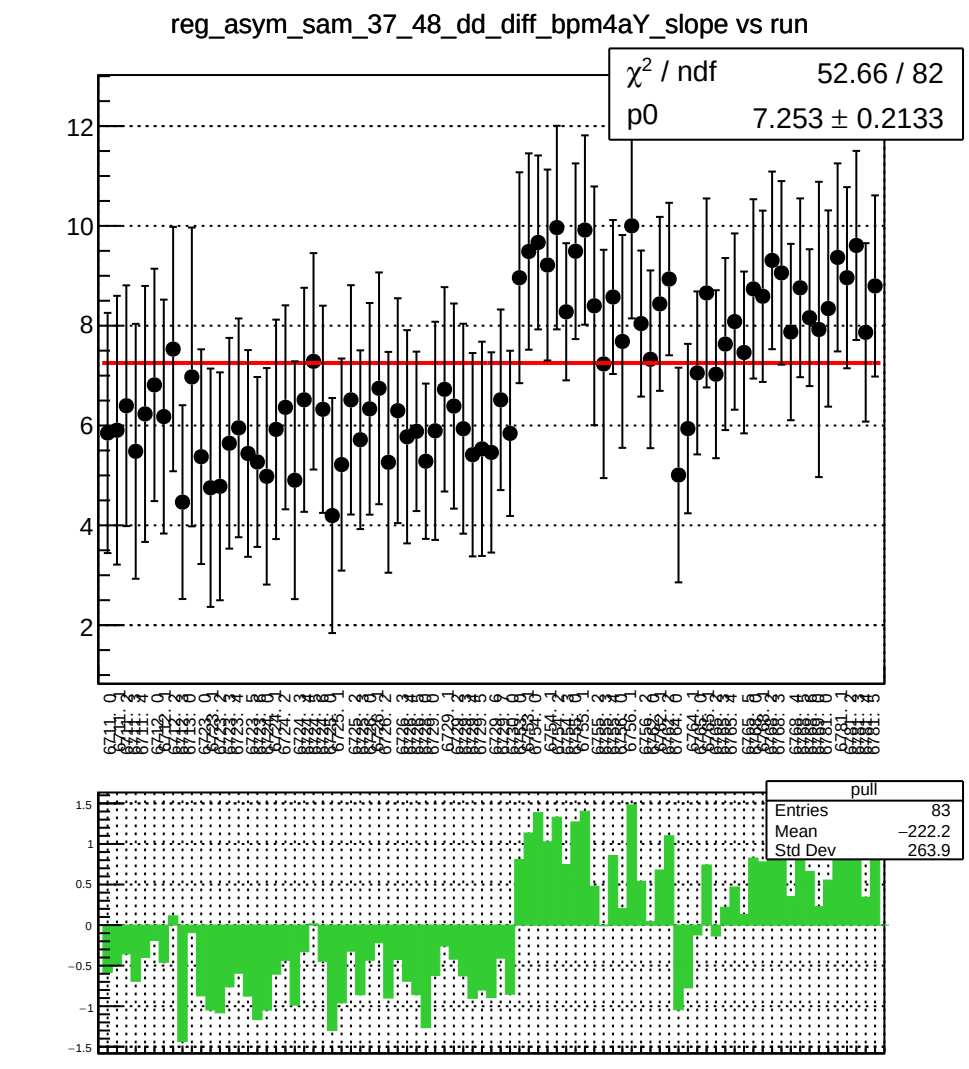

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.73 / 82
p0 35.81 ± 0.3797
pull
Entries 83
Mean 211.5
Std Dev 159.7
pull1D
Entries 83
Mean 0.06878
Std Dev 0.771

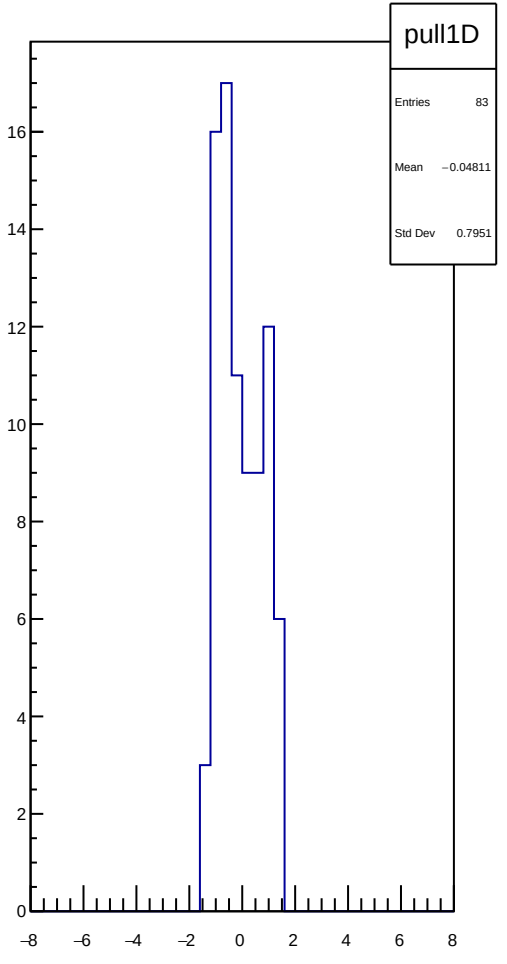

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 125.7 / 82
p0 −31.5 ± 0.3052
pull
Entries 83
Mean −1269
Std Dev 1315
pull1D
Entries 83
Mean 0.01678
Std Dev 1.231

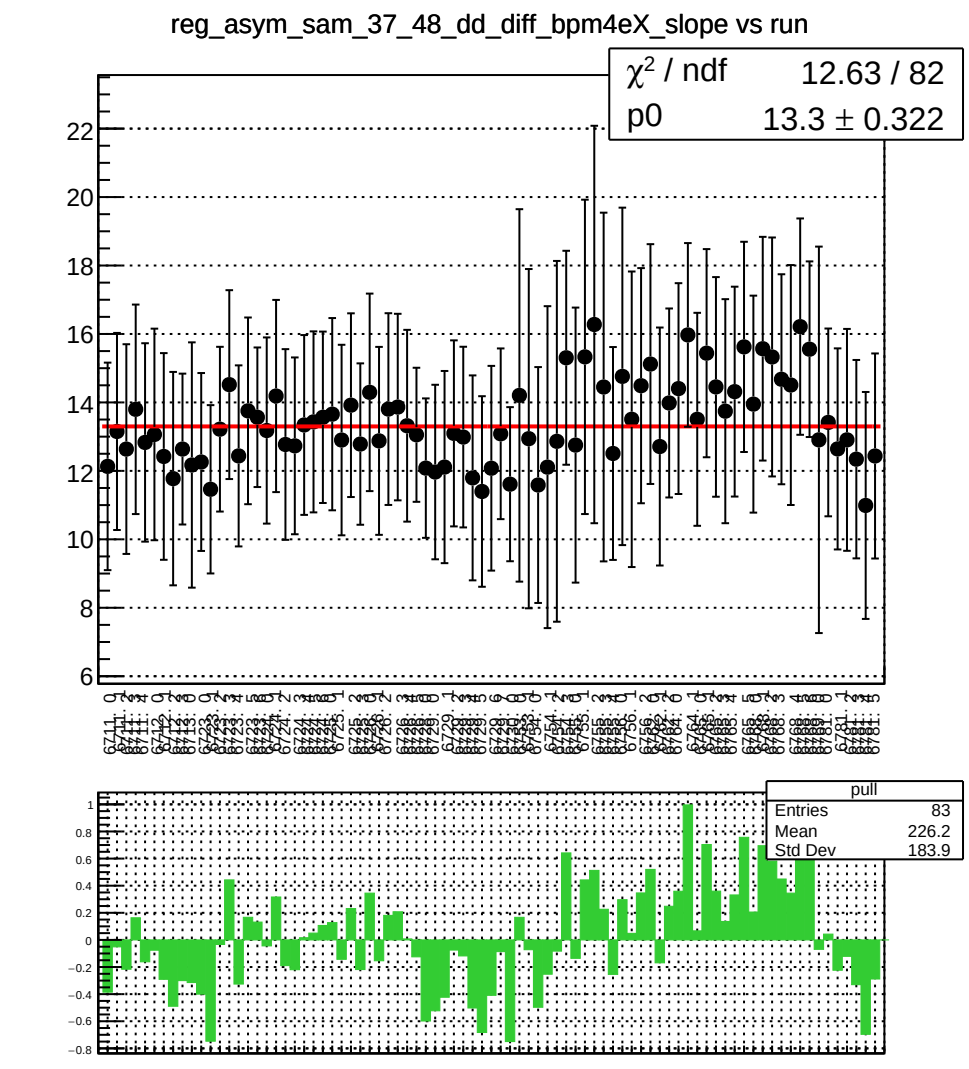

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 15.81 / 82
p0 0.1788 ± 0.0177
pull
Entries 83
Mean 296.6
Std Dev 236.3
pull1D
Entries 83
Mean −0.01361
Std Dev 0.4362

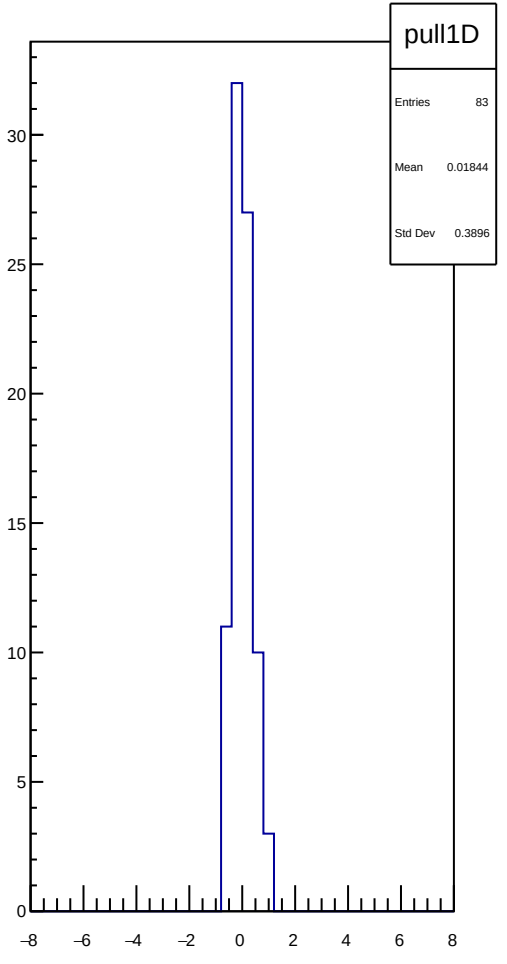

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 25.73 / 82
p0 5.27 ± 0.3354
pull
Entries 83
Mean 288.4
Std Dev 240.5

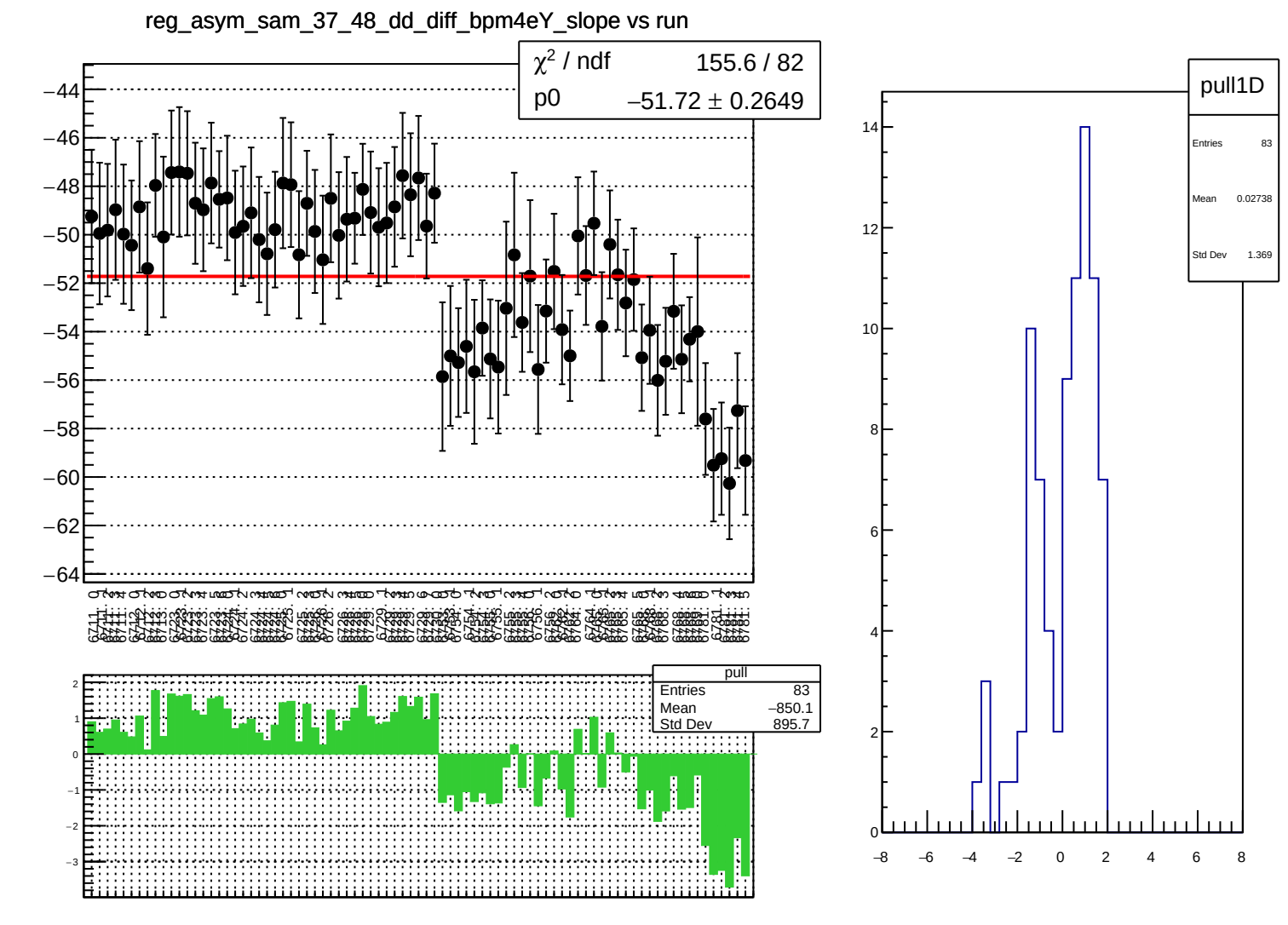

pull1D
Entries 83
Mean −0.03847
Std Dev 0.5555

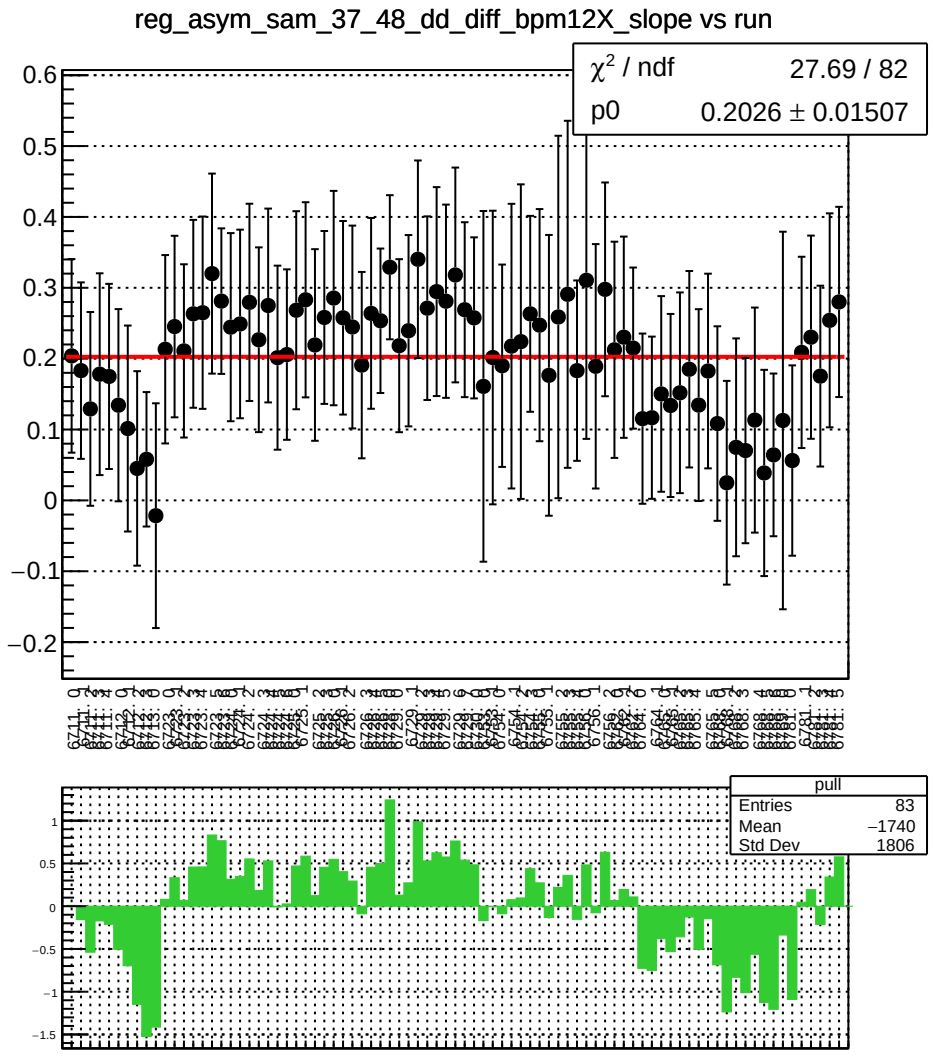

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.66 / 82
p0 7.253 ± 0.2133
pull
Entries 83
Mean −222.2
Std Dev 263.9

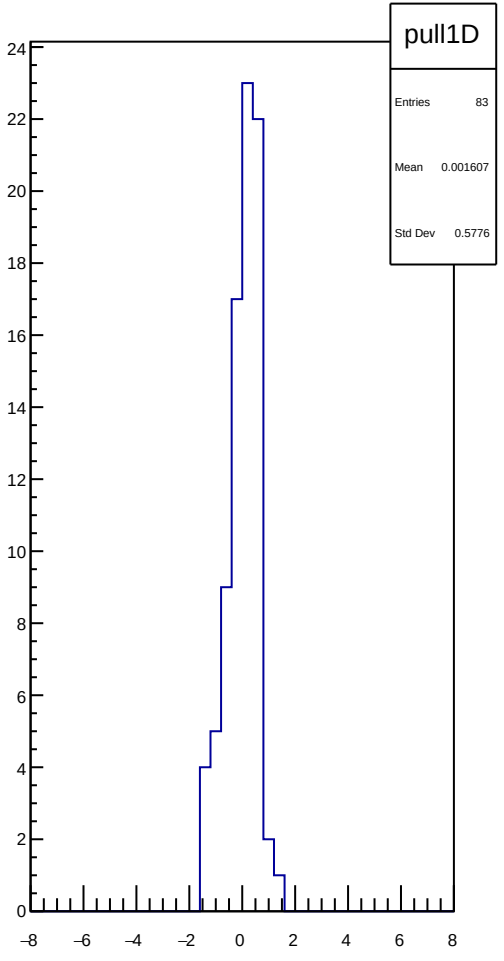

pull1D
Entries 83
Mean −0.04811
Std Dev 0.7951

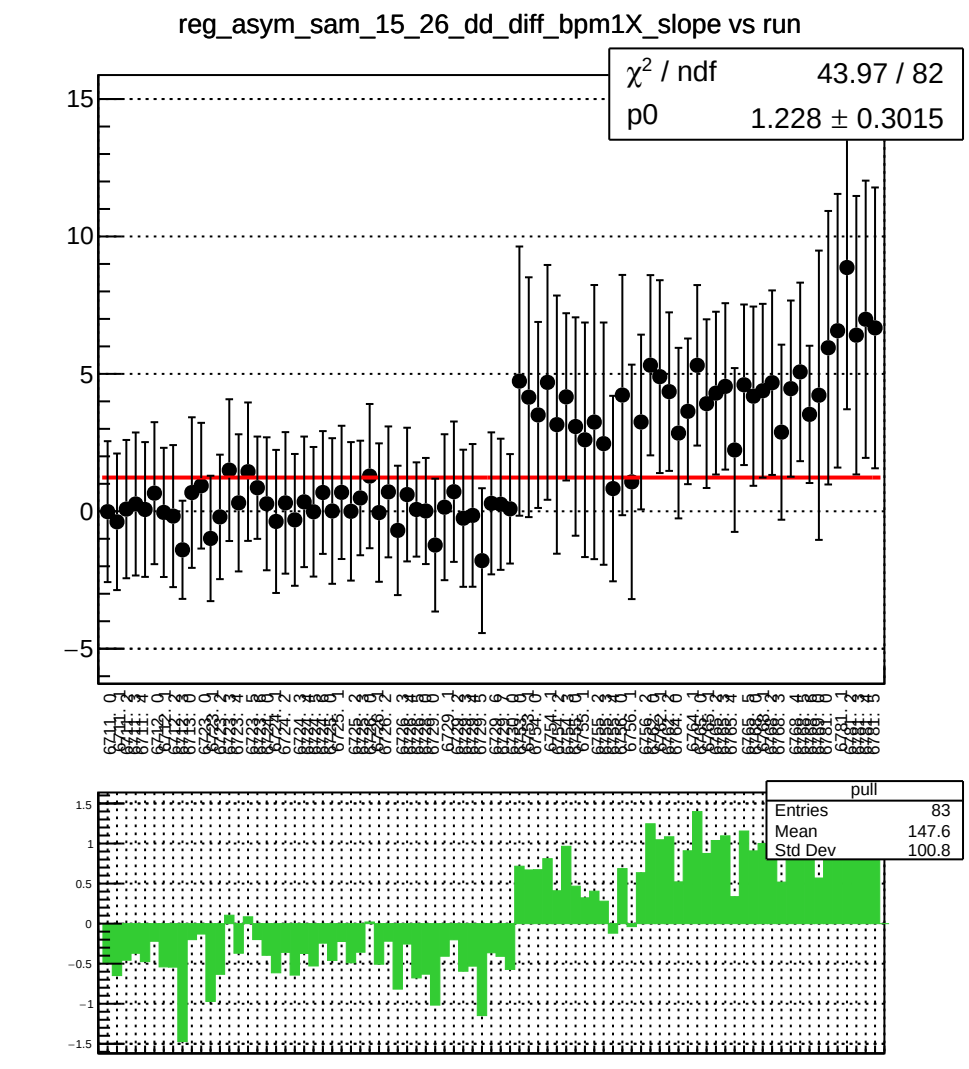

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.63 / 82
p0 13.3 ± 0.322
pull
Entries 83
Mean 226.2
Std Dev 183.9

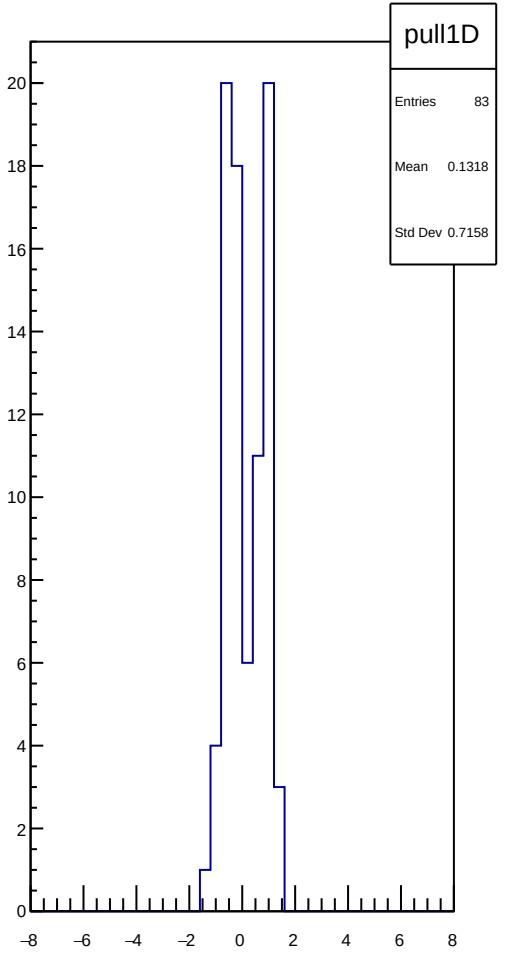

pull1D
Entries 83
Mean 0.01844
Std Dev 0.3896

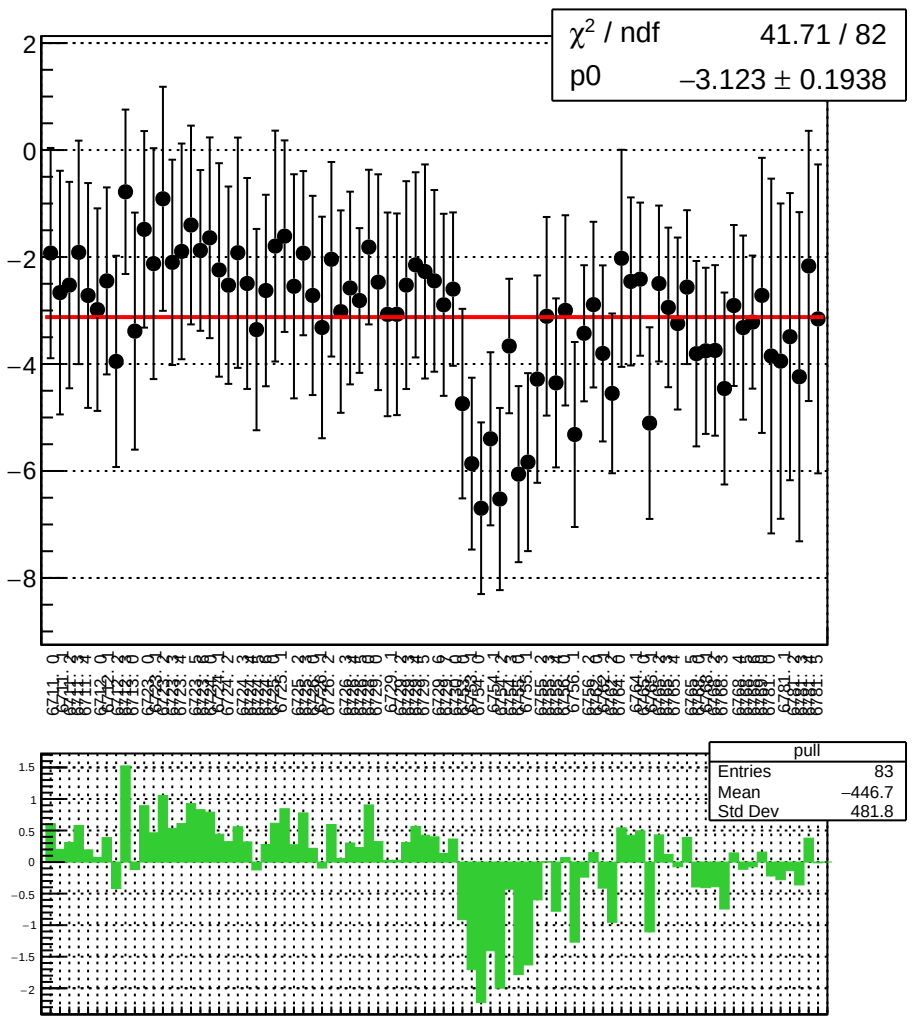

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 155.6 / 82
p0 −51.72 ± 0.2649
pull
Entries 83
Mean −850.1
Std Dev 895.7
pull1D
Entries 83
Mean 0.02738
Std Dev 1.369

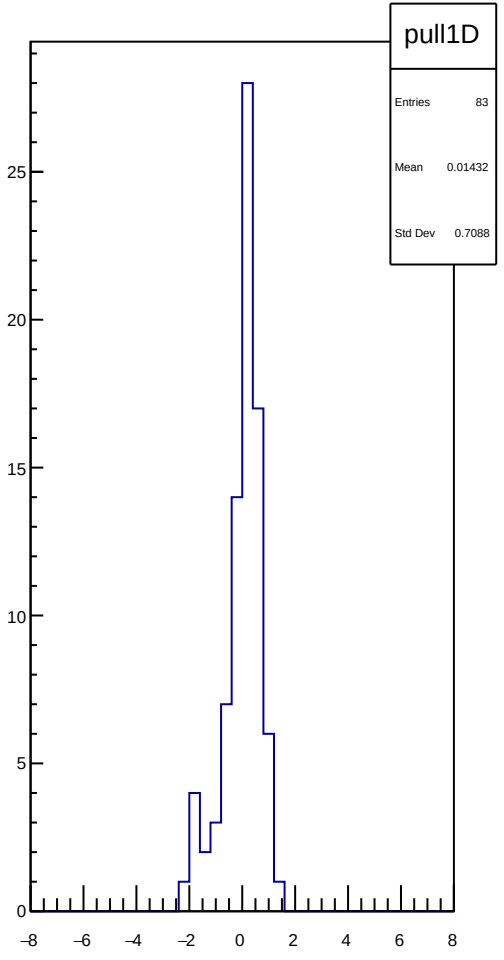

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 27.69 / 82
p0 0.2026 ± 0.01507
pull
Entries 83
Mean −1740
Std Dev 1806

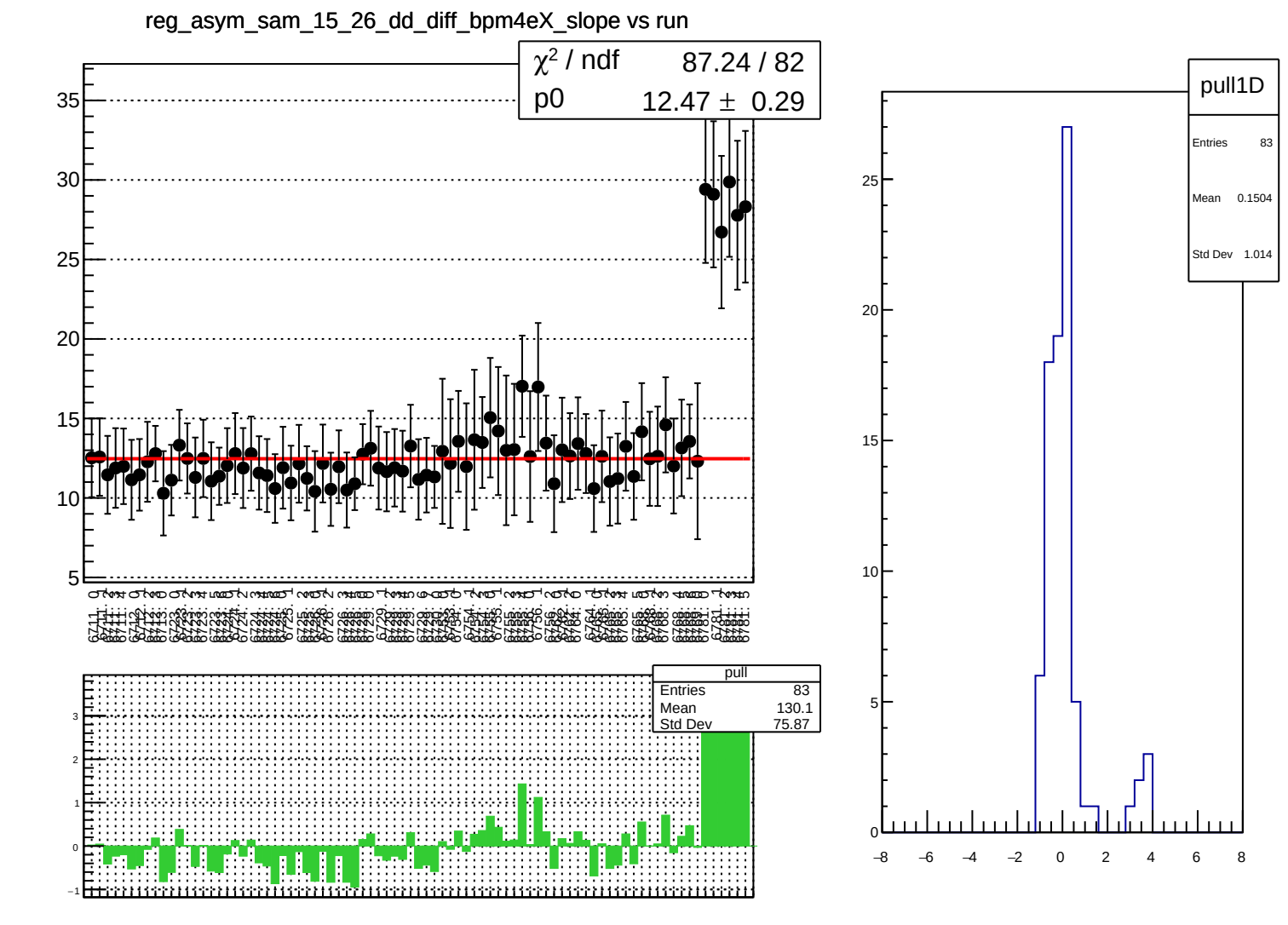

pull1D
Entries 83
Mean 0.001607
Std Dev 0.5776

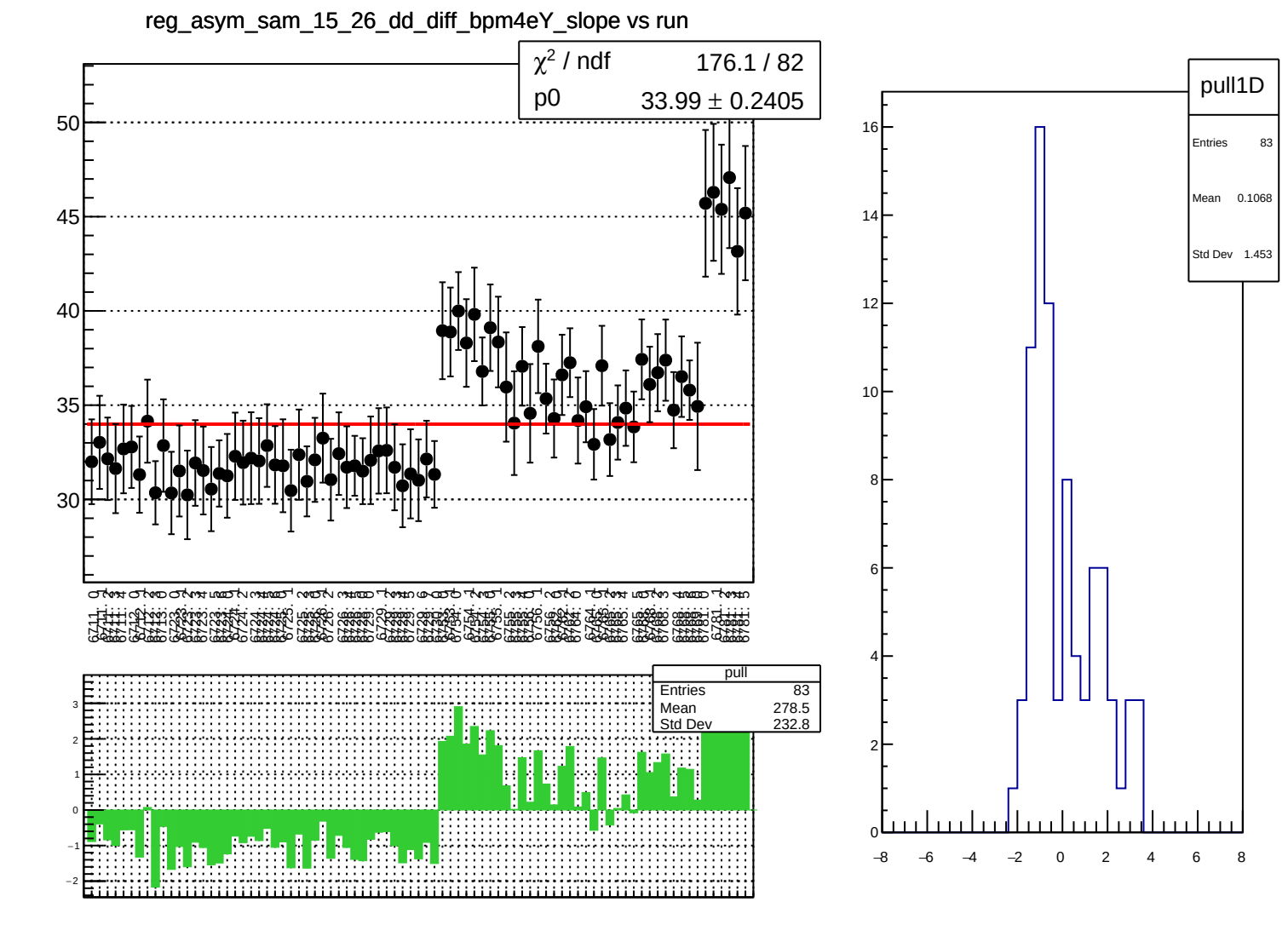

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 43.97 / 82
p0 1.228 ± 0.3015
pull
Entries 83
Mean 147.6
Std Dev 100.8

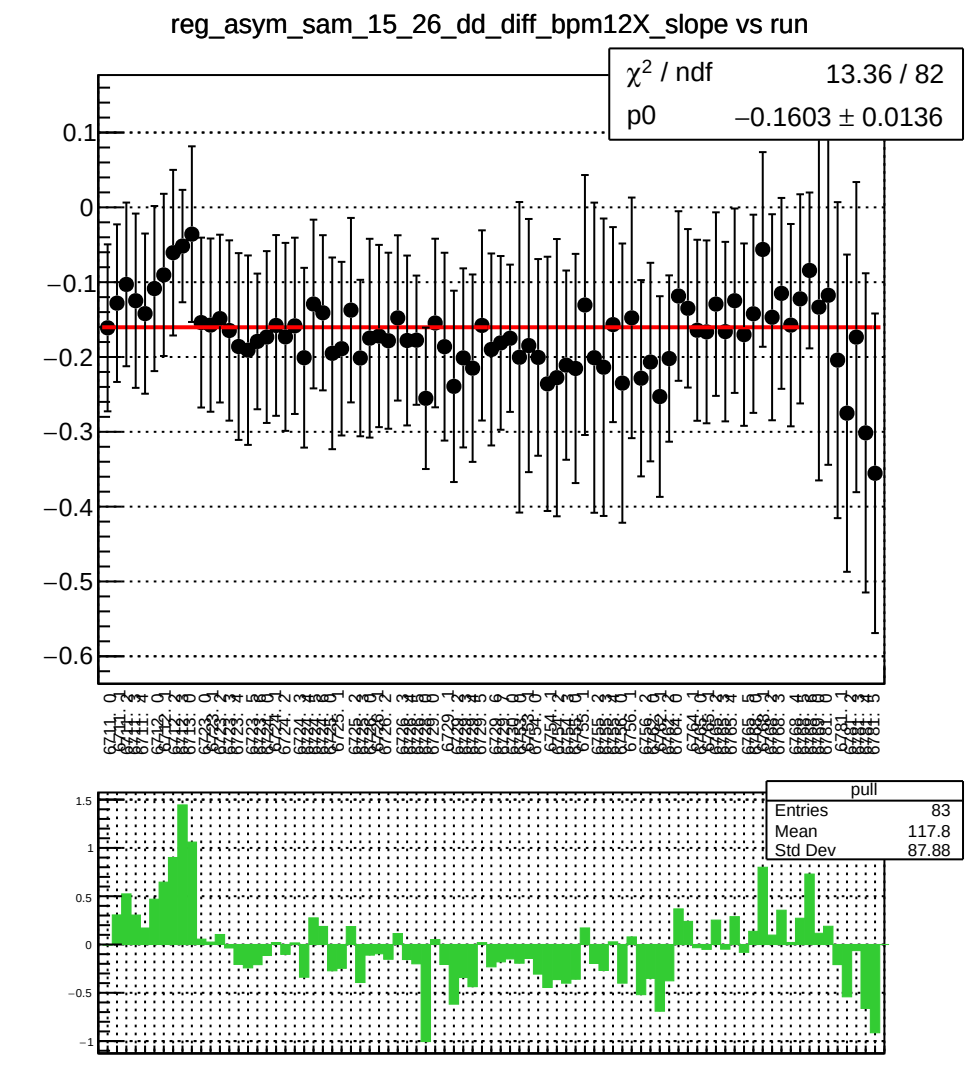

pull1D
Entries 83
Mean 0.1318
Std Dev 0.7158

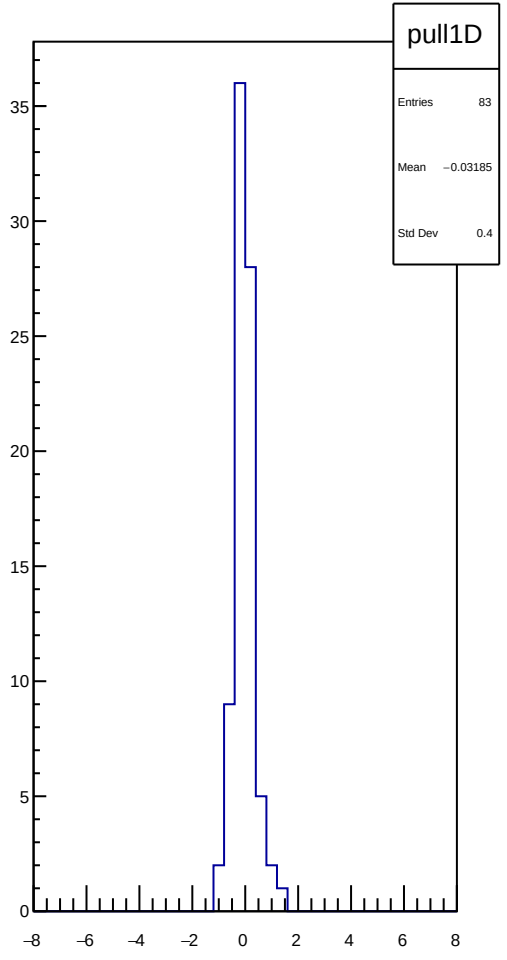

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.71 / 82
p0 −3.123 ± 0.1938
pull
Entries 83
Mean −446.7
Std Dev 481.8

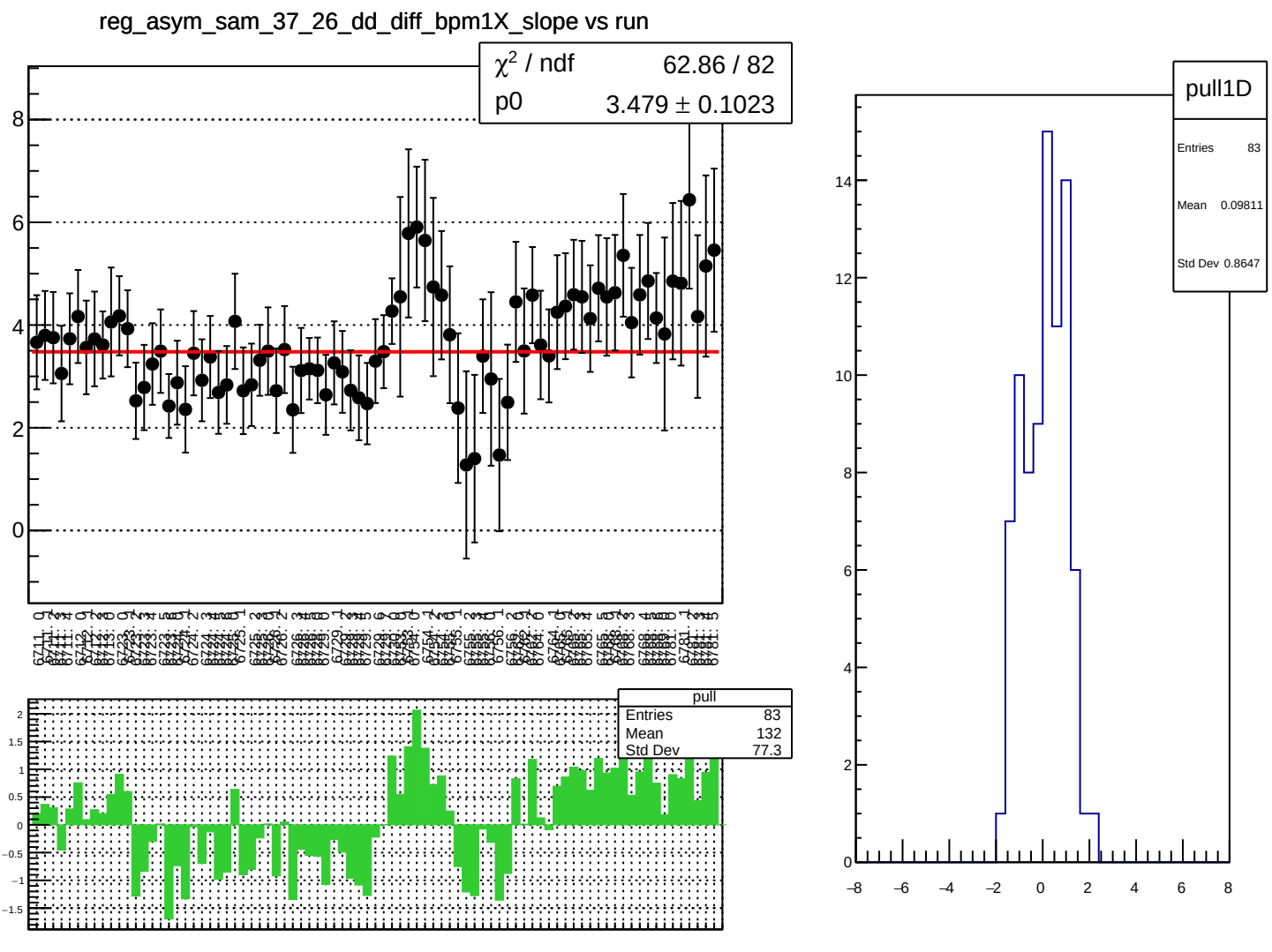

pull1D
Entries 83
Mean 0.01432
Std Dev 0.7088

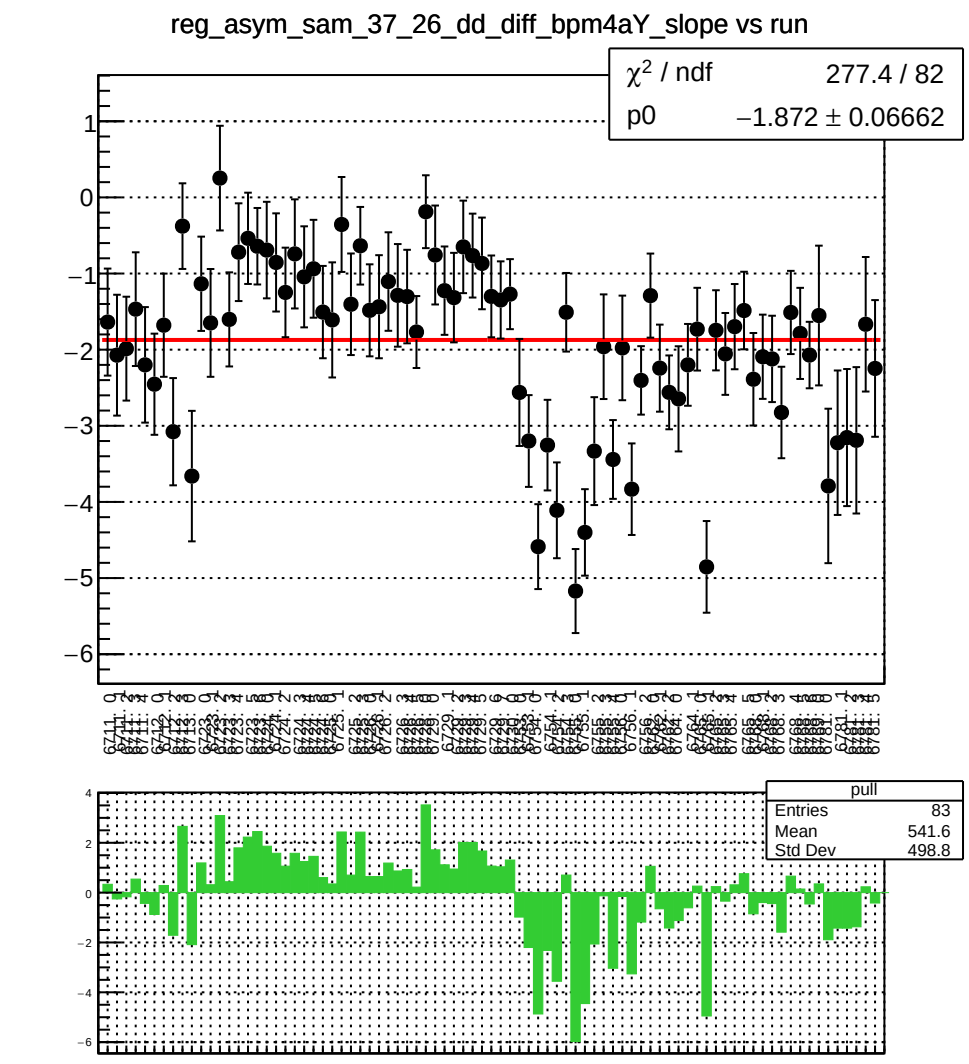

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 87.24 / 82
p0 12.47 ± 0.29
pull
Entries 83
Mean 130.1
Std Dev 75.87
pull1D
Entries 83
Mean 0.1504
Std Dev 1.014

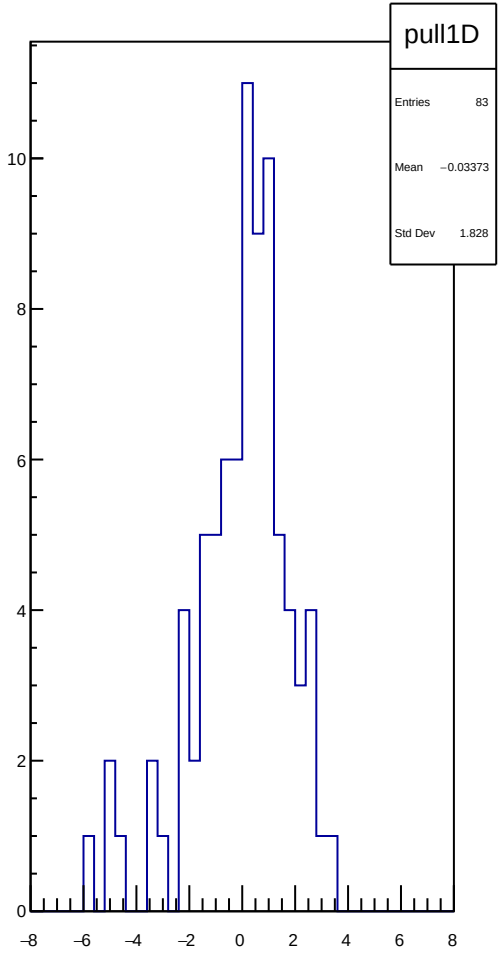

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 176.1 / 82
p0 33.99 ± 0.2405
pull
Entries 83
Mean 278.5
Std Dev 232.8
pull1D
Entries 83
Mean 0.1068
Std Dev 1.453

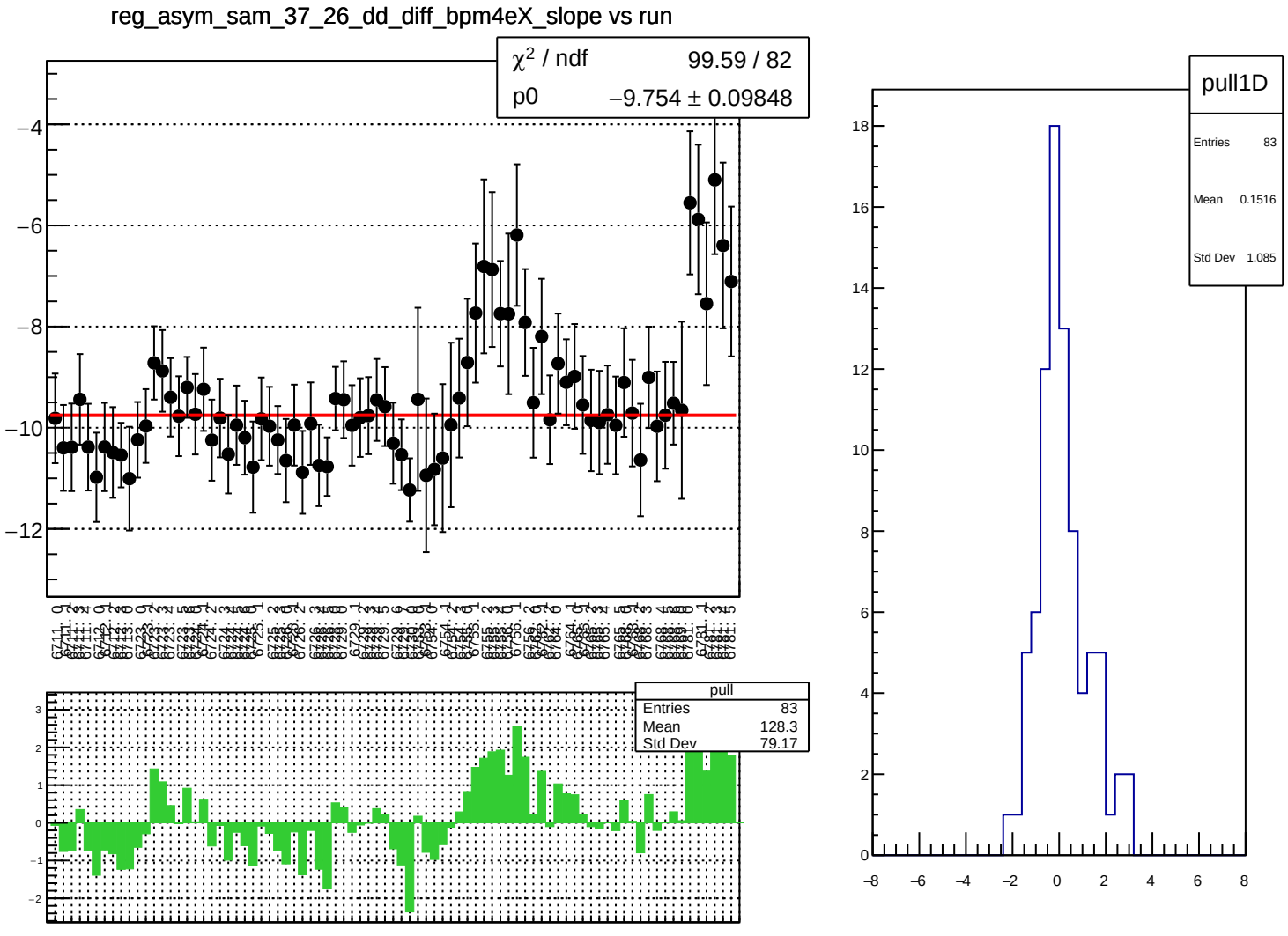

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 13.36 / 82
p0 −0.1603 ± 0.0136
pull
Entries 83
Mean 117.8
Std Dev 87.88

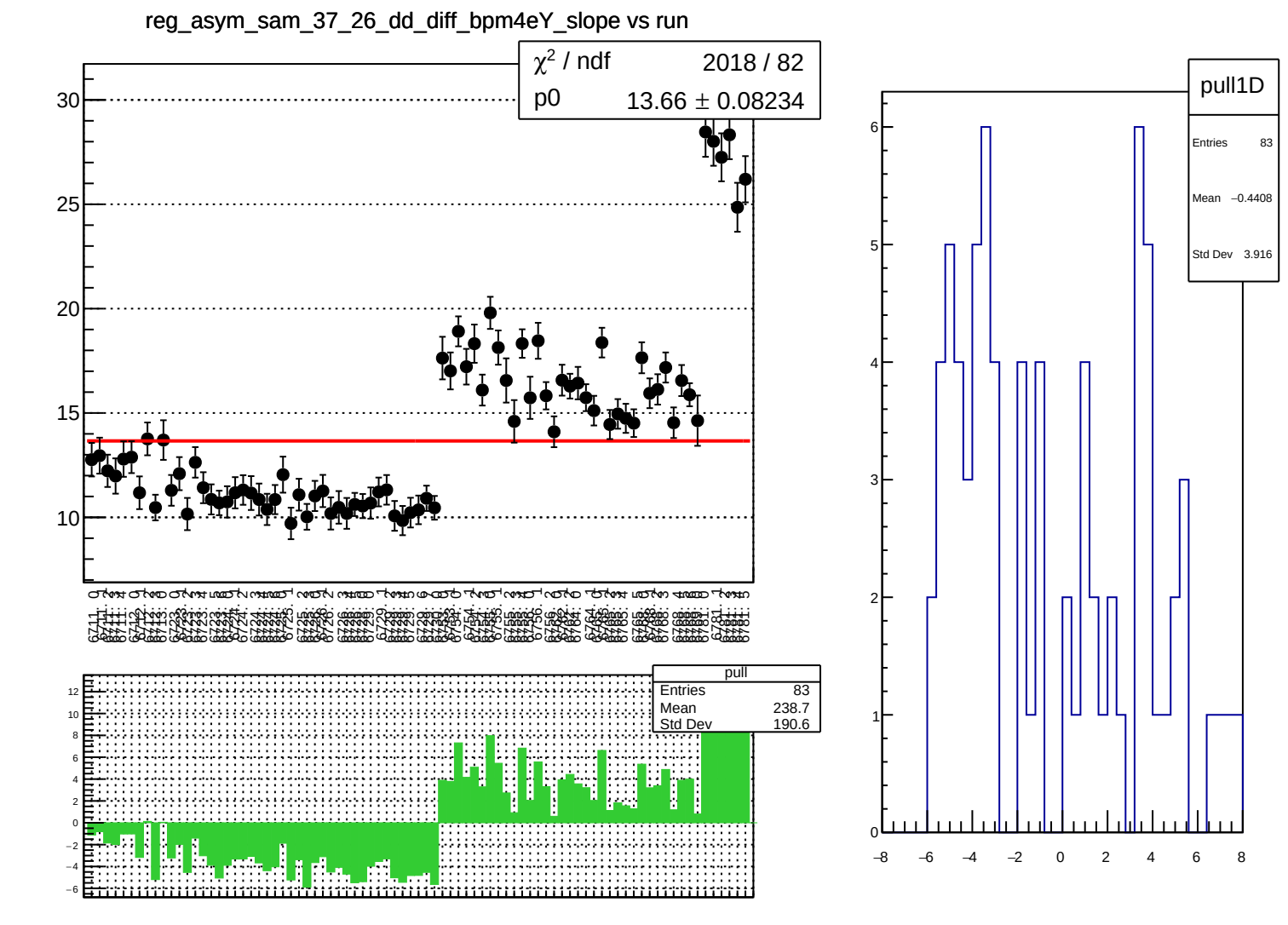

pull1D
Entries 83
Mean −0.03185
Std Dev 0.4

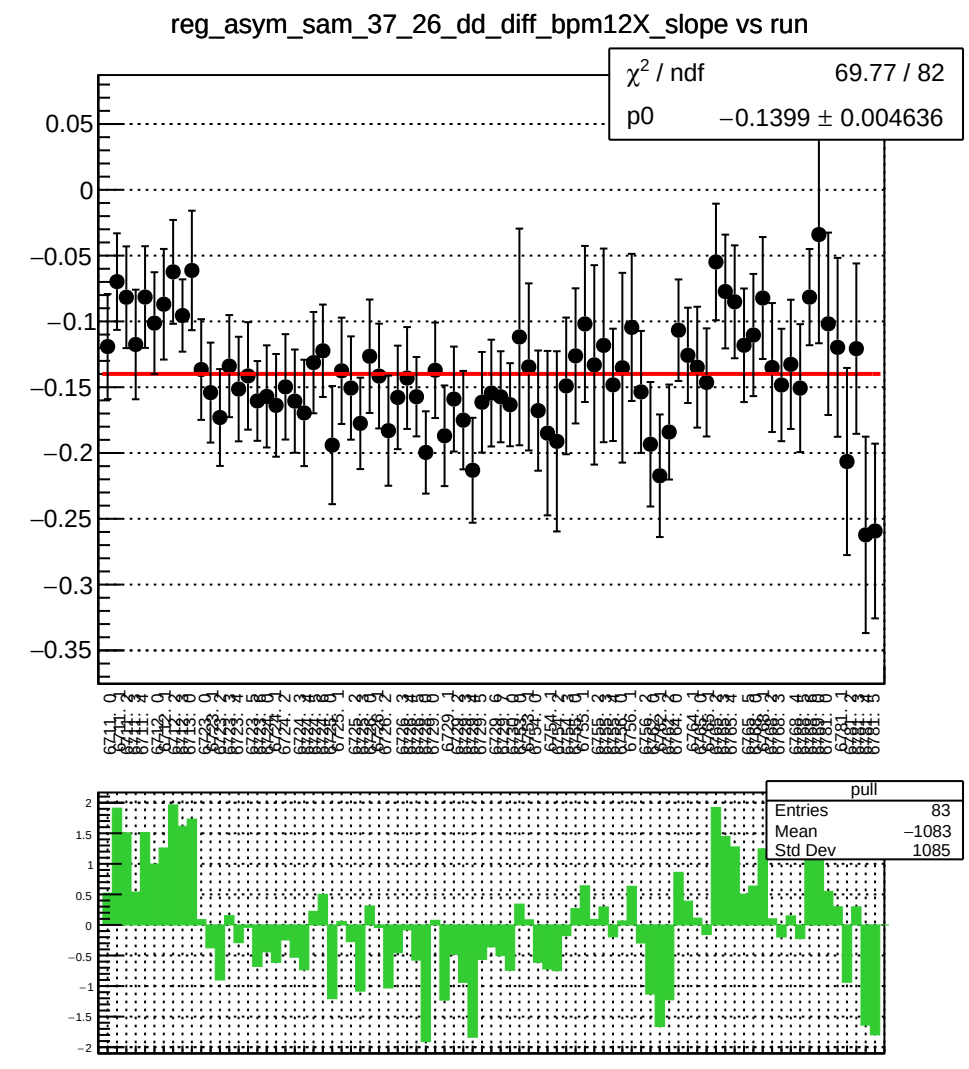

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 62.86 / 82
p0 3.479 ± 0.1023
pull
Entries 83
Mean 132
Std Dev 77.3
pull1D
Entries 83
Mean 0.09811
Std Dev 0.8647

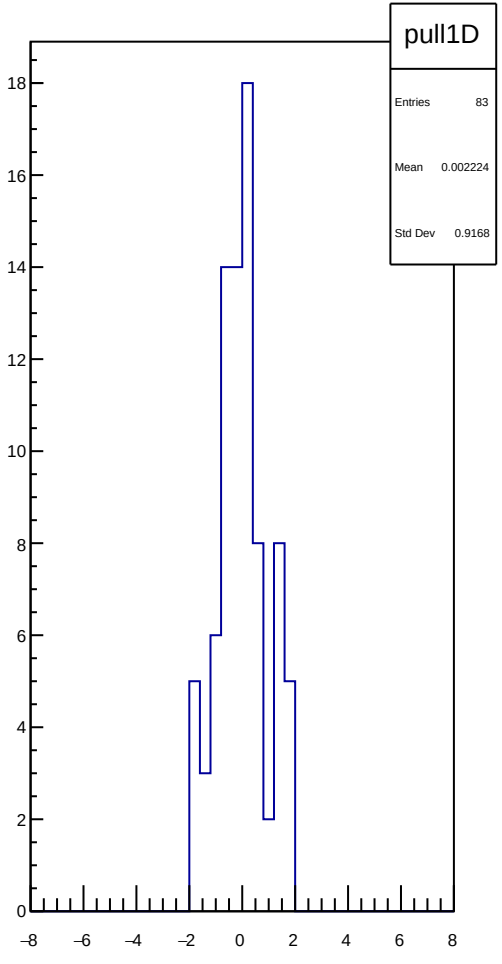

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 277.4 / 82
p0 −1.872 ± 0.06662
pull
Entries 83
Mean 541.6
Std Dev 498.8

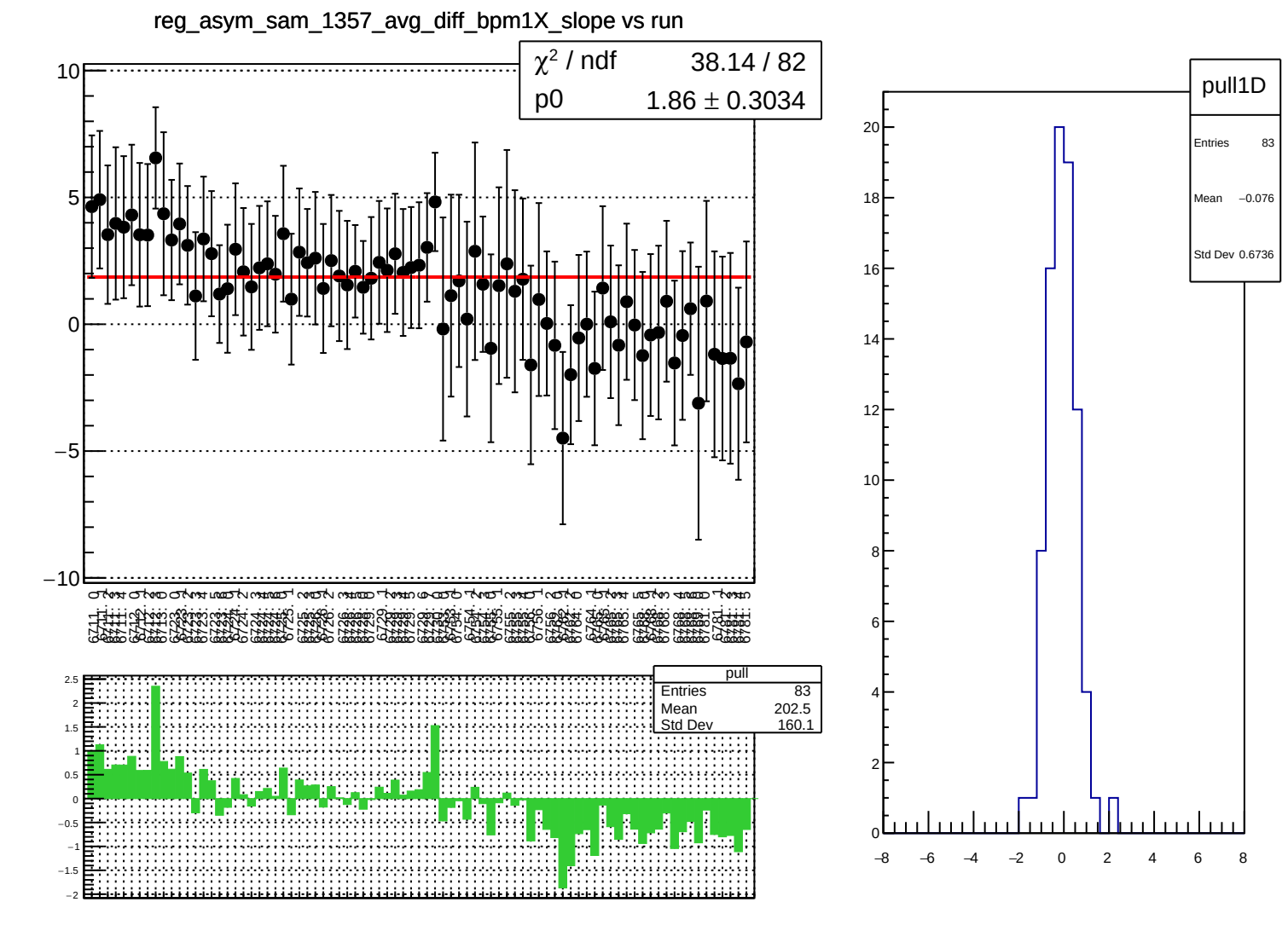

pull1D
Entries 83
Mean −0.03373
Std Dev 1.828

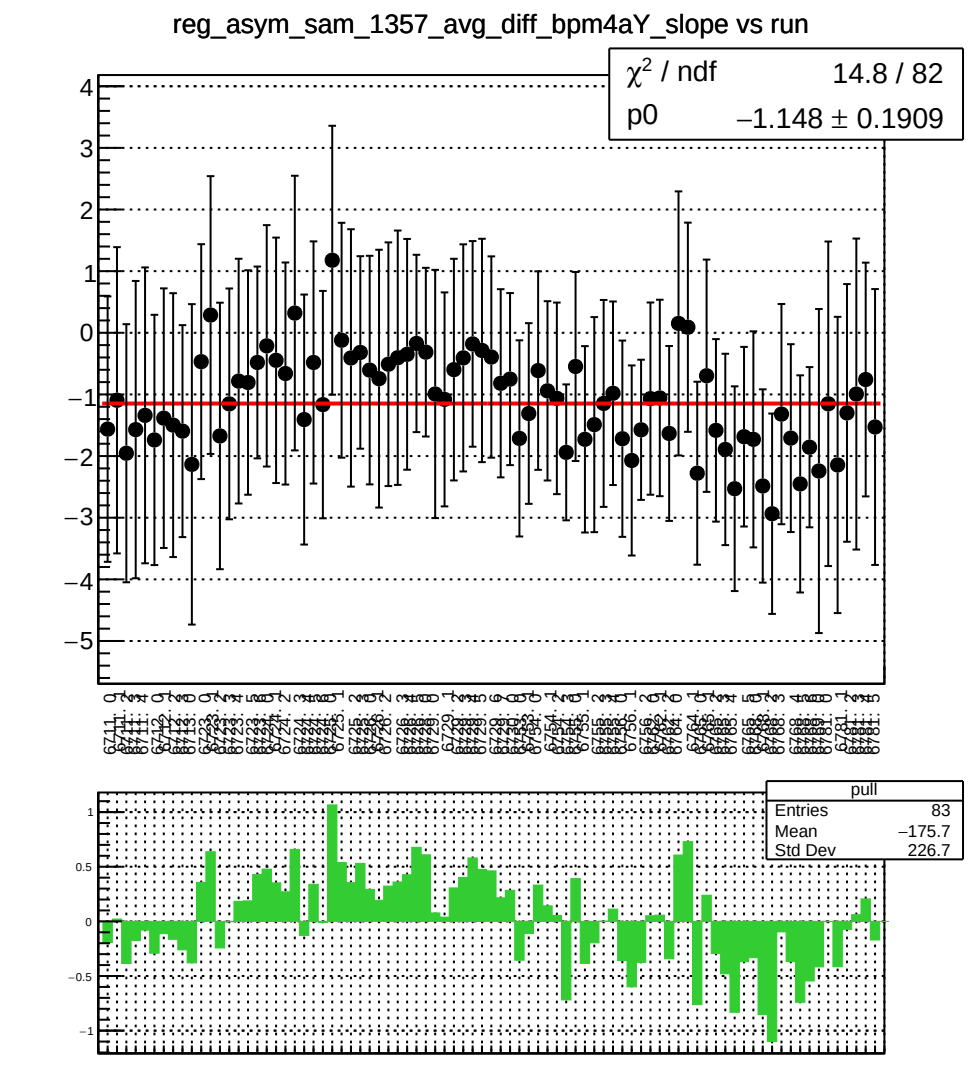

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 99.59 / 82
p0 −9.754 ± 0.09848
pull
Entries 83
Mean 128.3
Std Dev 79.17
pull1D
Entries 83
Mean 0.1516
Std Dev 1.085

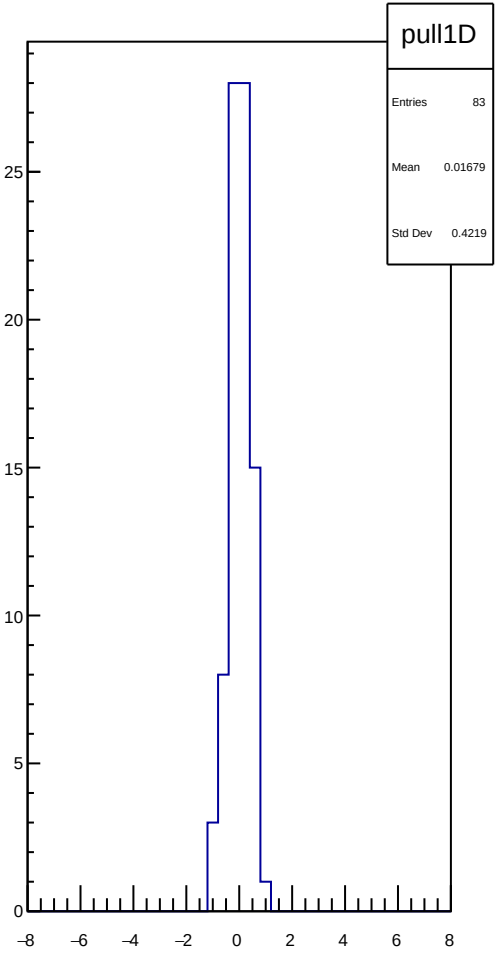

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2018 / 82
p0 13.66 ± 0.08234
pull
Entries 83
Mean 238.7
Std Dev 190.6
pull1D
Entries 83
Mean −0.4408
Std Dev 3.916

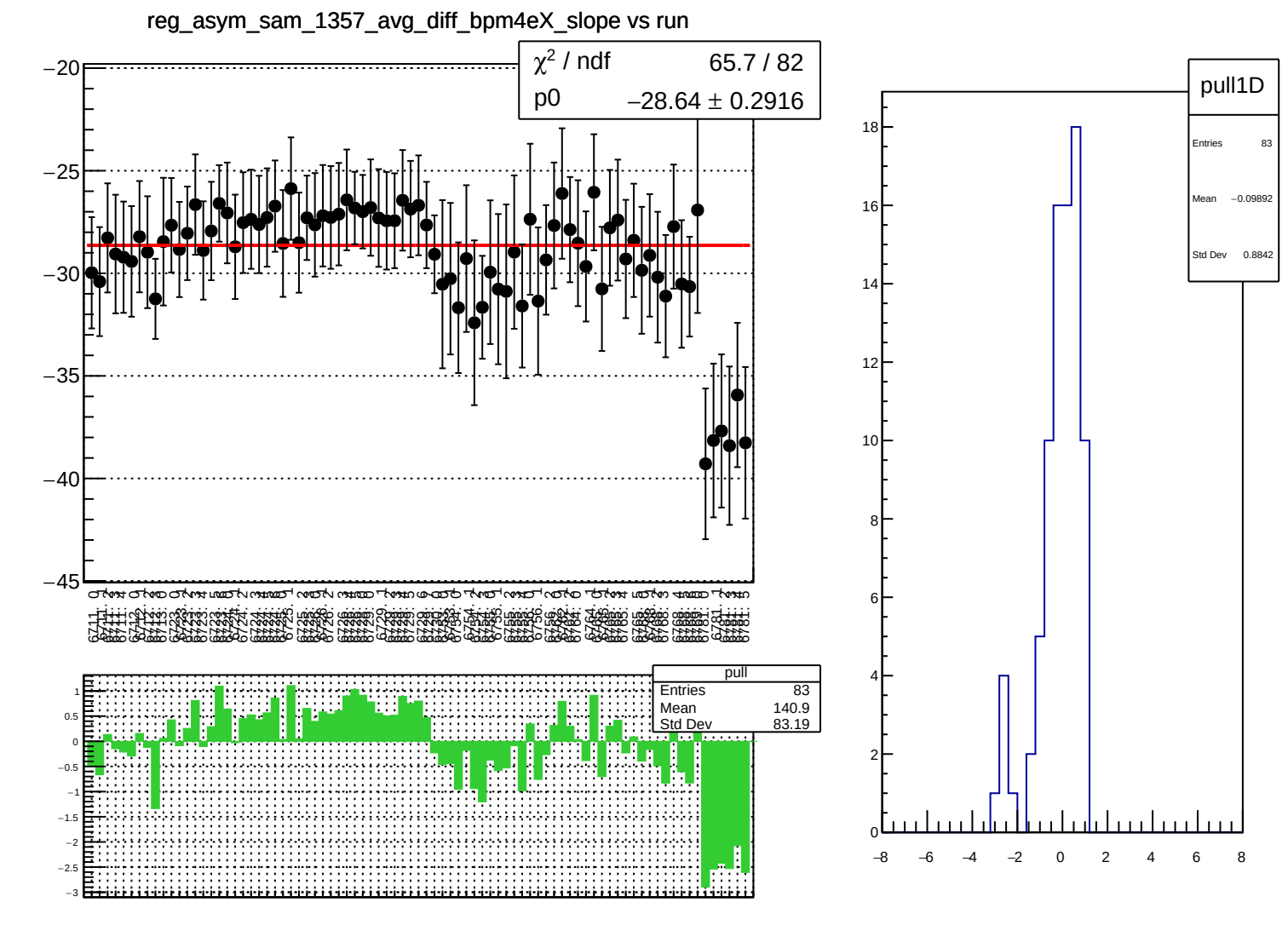

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 69.77 / 82
p0 −0.1399 ± 0.004636
pull
Entries 83
Mean −1083
Std Dev 1085

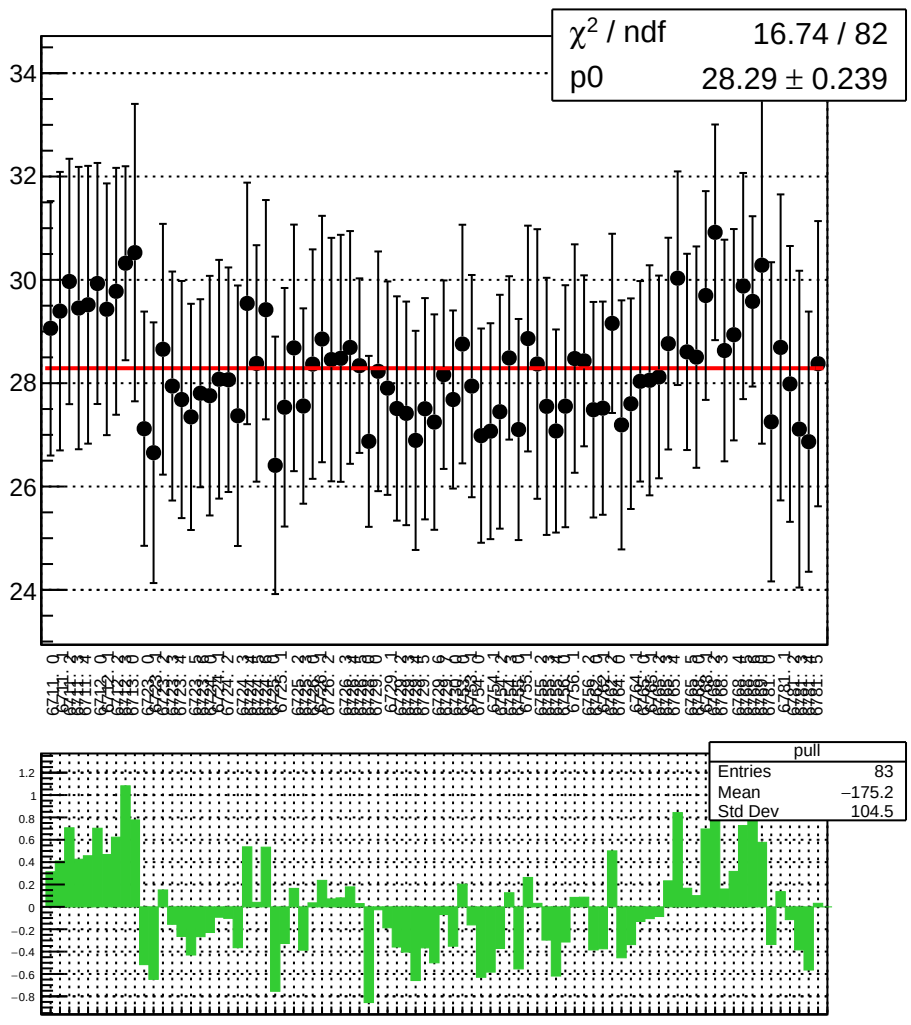

pull1D
Entries 83
Mean 0.002224
Std Dev 0.9168

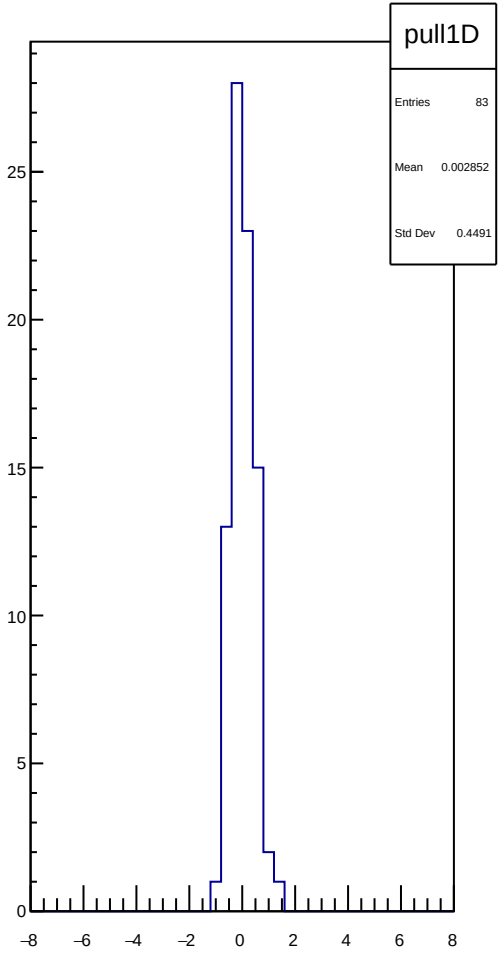

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 38.14 / 82
p0 1.86 ± 0.3034
pull
Entries 83
Mean 202.5
Std Dev 160.1
pull1D
Entries 83
Mean −0.076
Std Dev 0.6736

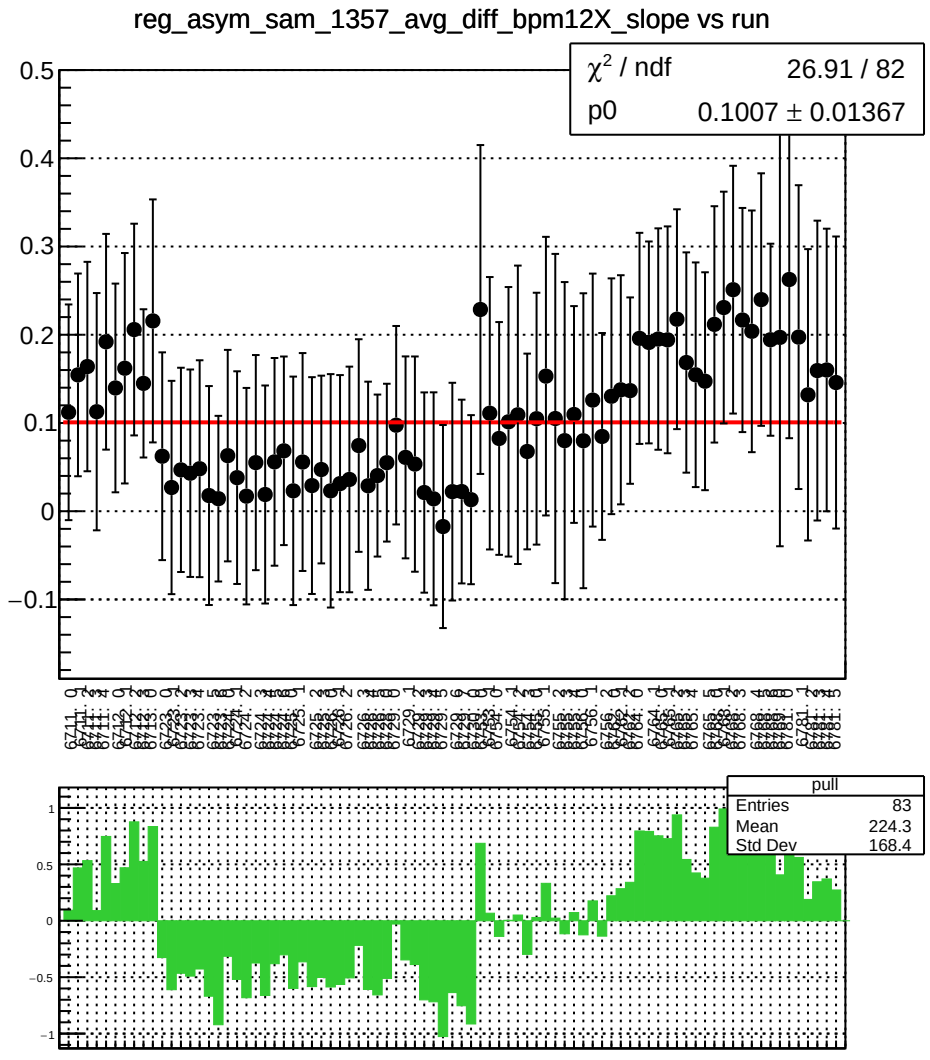

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.8 / 82
p0 −1.148 ± 0.1909
pull
Entries 83
Mean −175.7
Std Dev 226.7

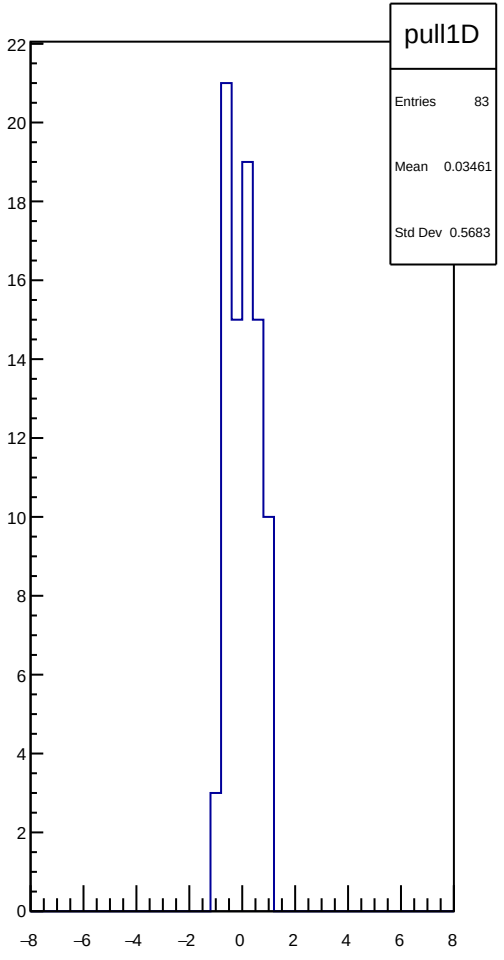

pull1D
Entries 83
Mean 0.01679
Std Dev 0.4219

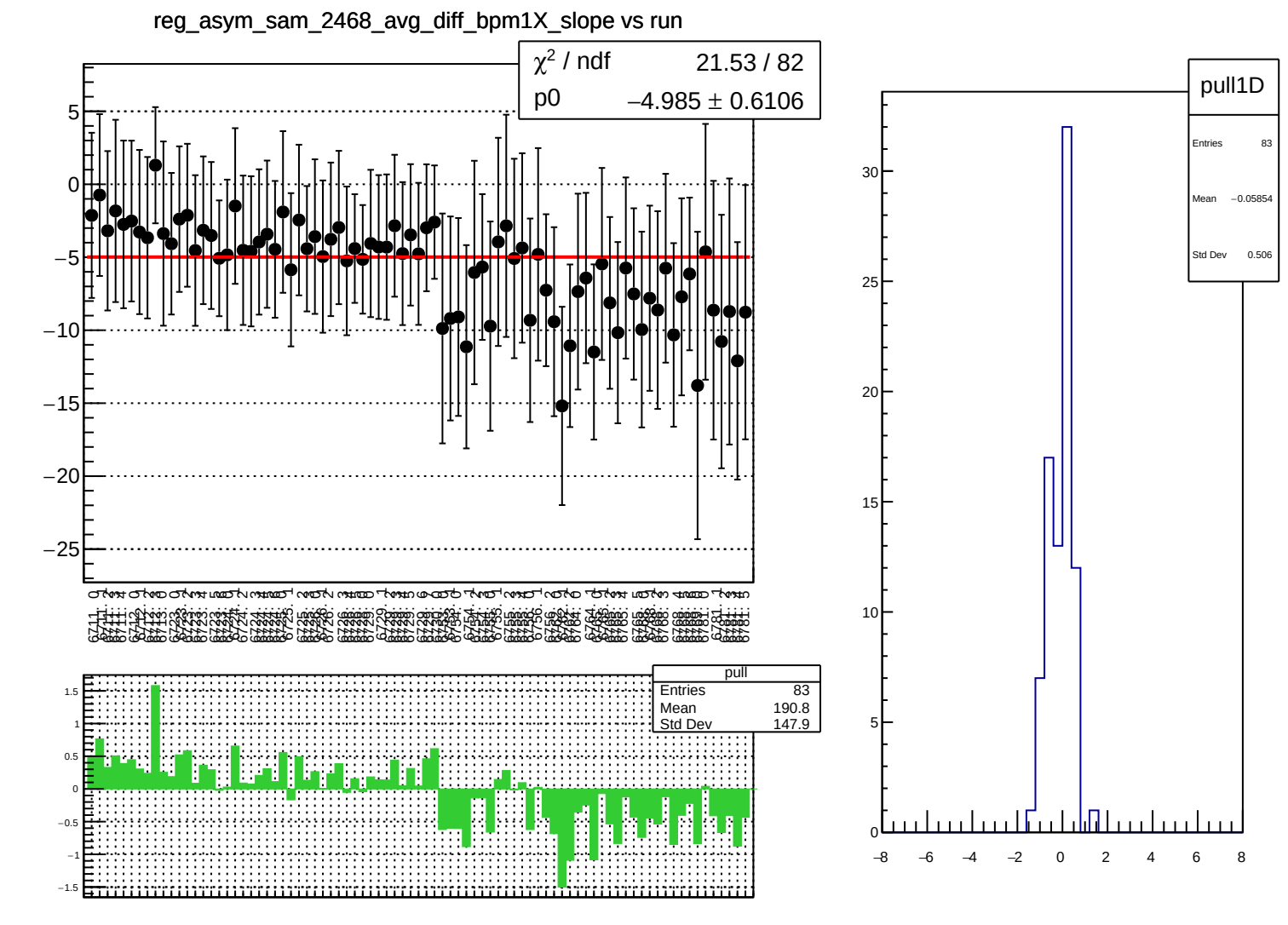

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 65.7 / 82
p0 −28.64 ± 0.2916
pull
Entries 83
Mean 140.9
Std Dev 83.19
pull1D
Entries 83
Mean −0.09892
Std Dev 0.8842

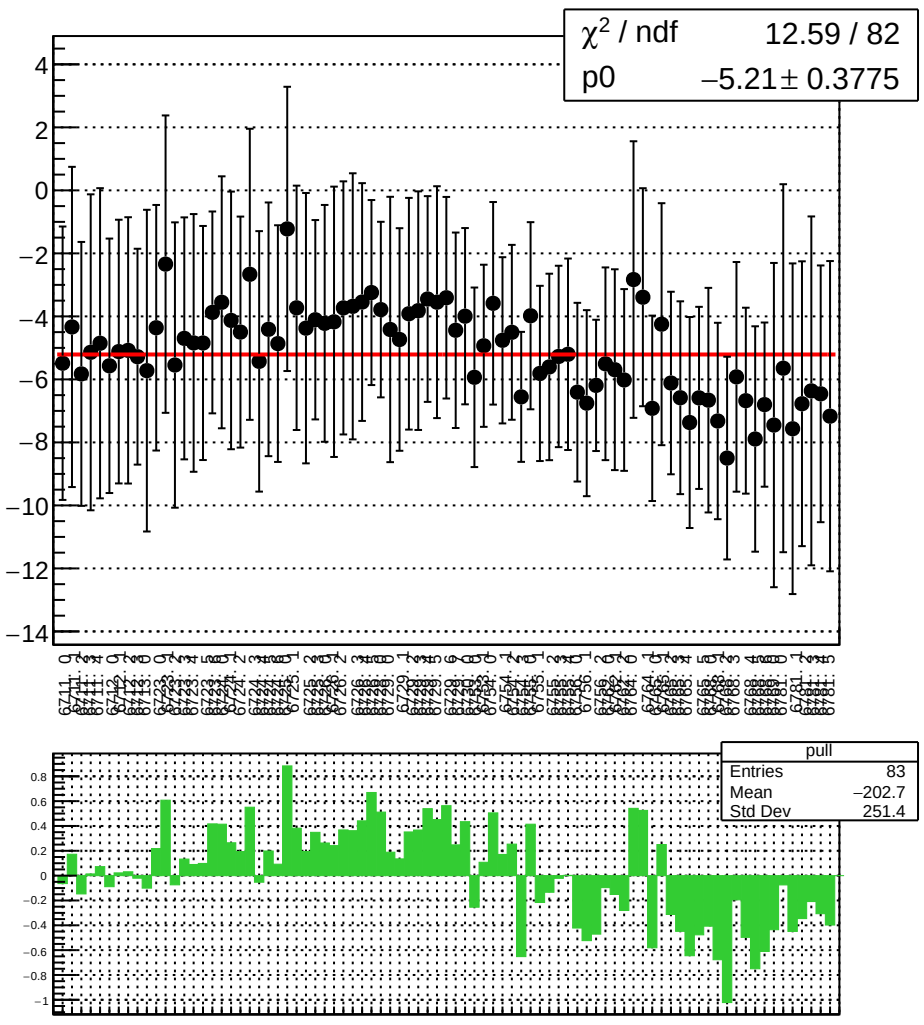

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.74 / 82
p0 28.29 ± 0.239
pull
Entries 83
Mean −175.2
Std Dev 104.5

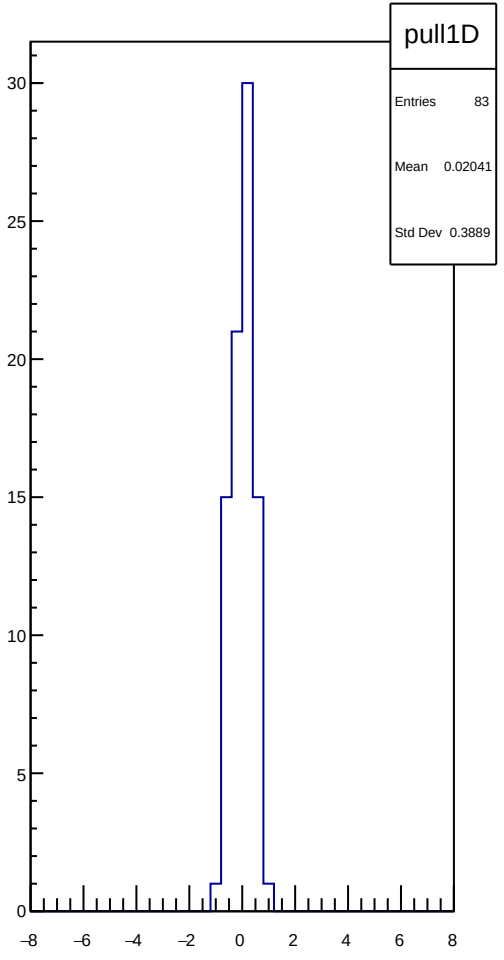

pull1D
Entries 83
Mean 0.002852
Std Dev 0.4491

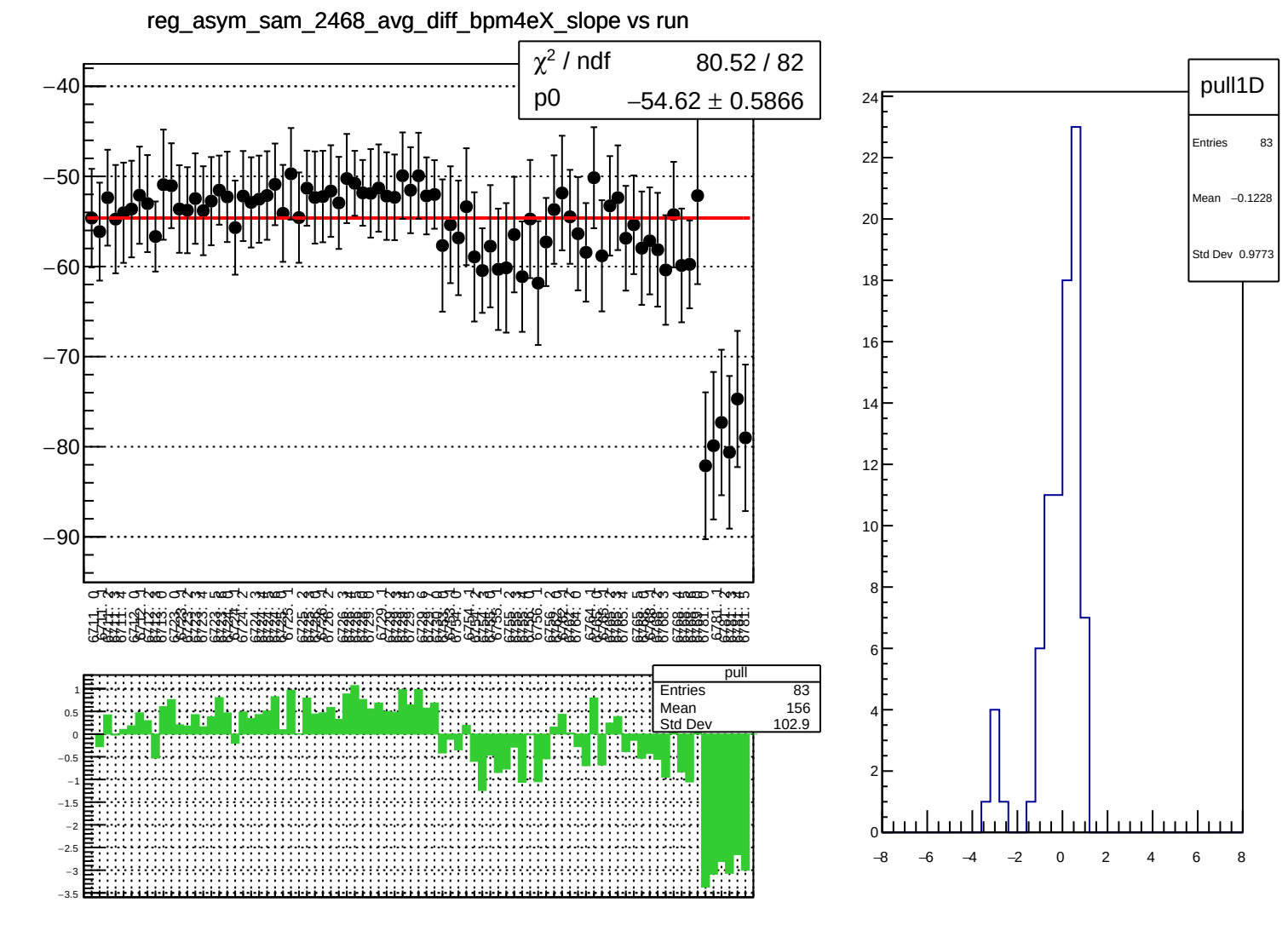

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 26.91 / 82
p0 0.1007 ± 0.01367
pull
Entries 83
Mean 224.3
Std Dev 168.4

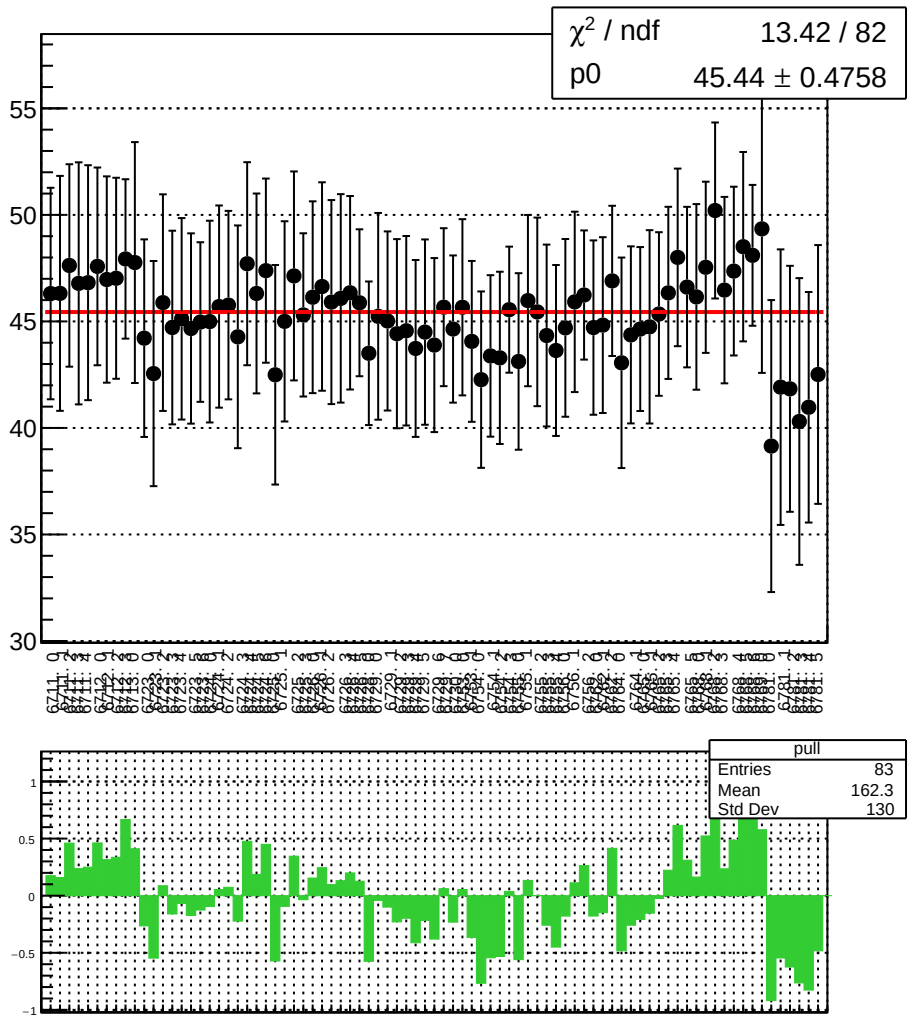

pull1D
Entries 83
Mean 0.03461
Std Dev 0.5683

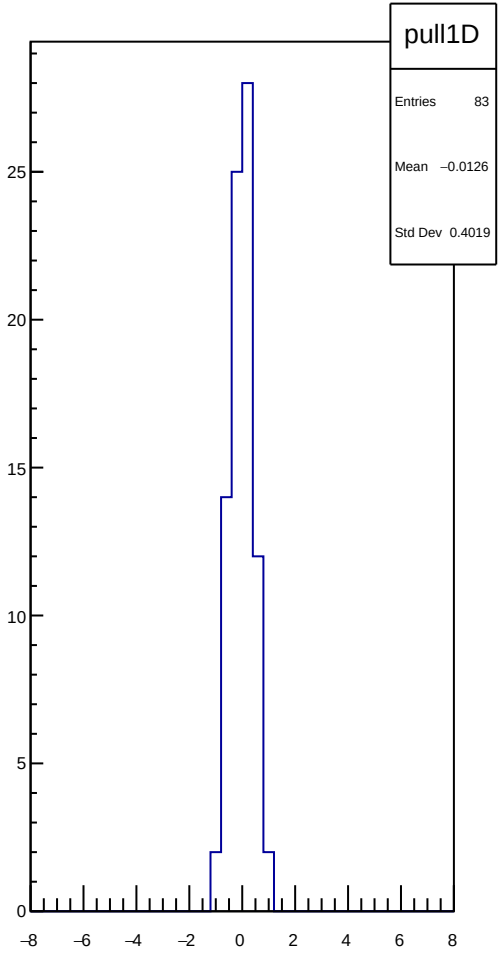

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 21.53 / 82
p0 −4.985 ± 0.6106
pull
Entries 83
Mean 190.8
Std Dev 147.9
pull1D
Entries 83
Mean −0.05854
Std Dev 0.506

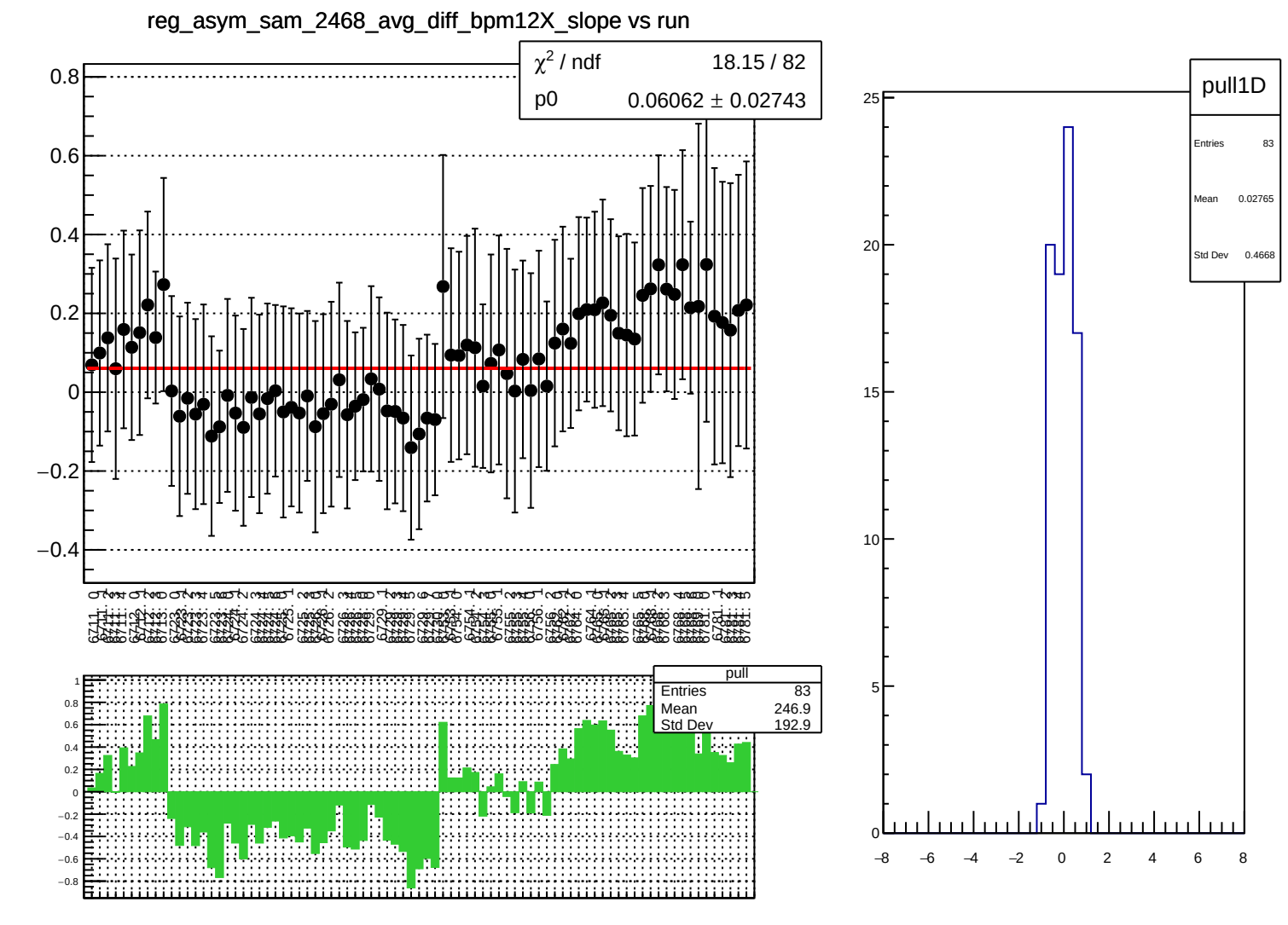

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.59 / 82
p0 −5.21 ± 0.3775
pull
Entries 83
Mean −202.7
Std Dev 251.4

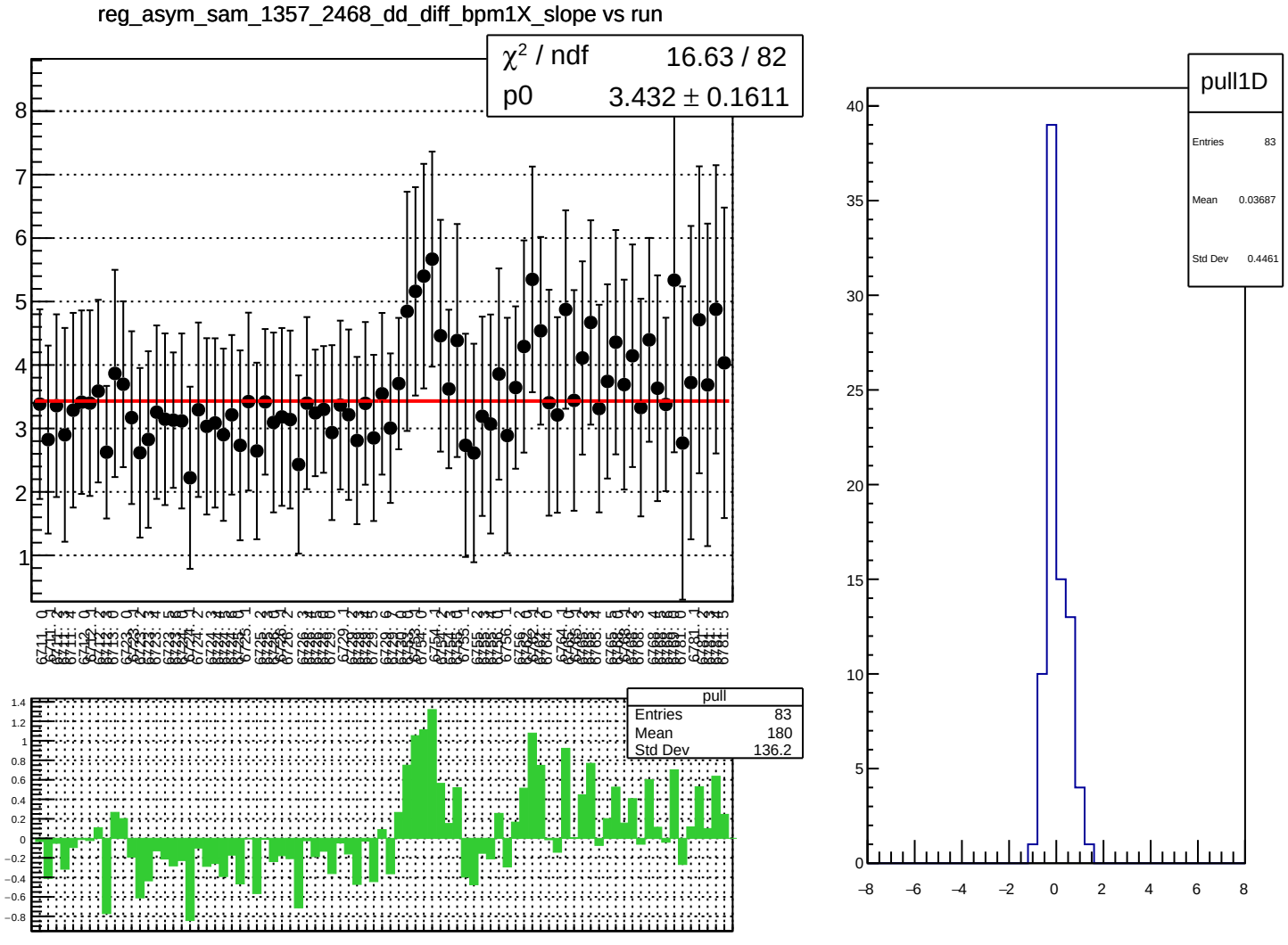

pull1D
Entries 83
Mean 0.02041
Std Dev 0.3889

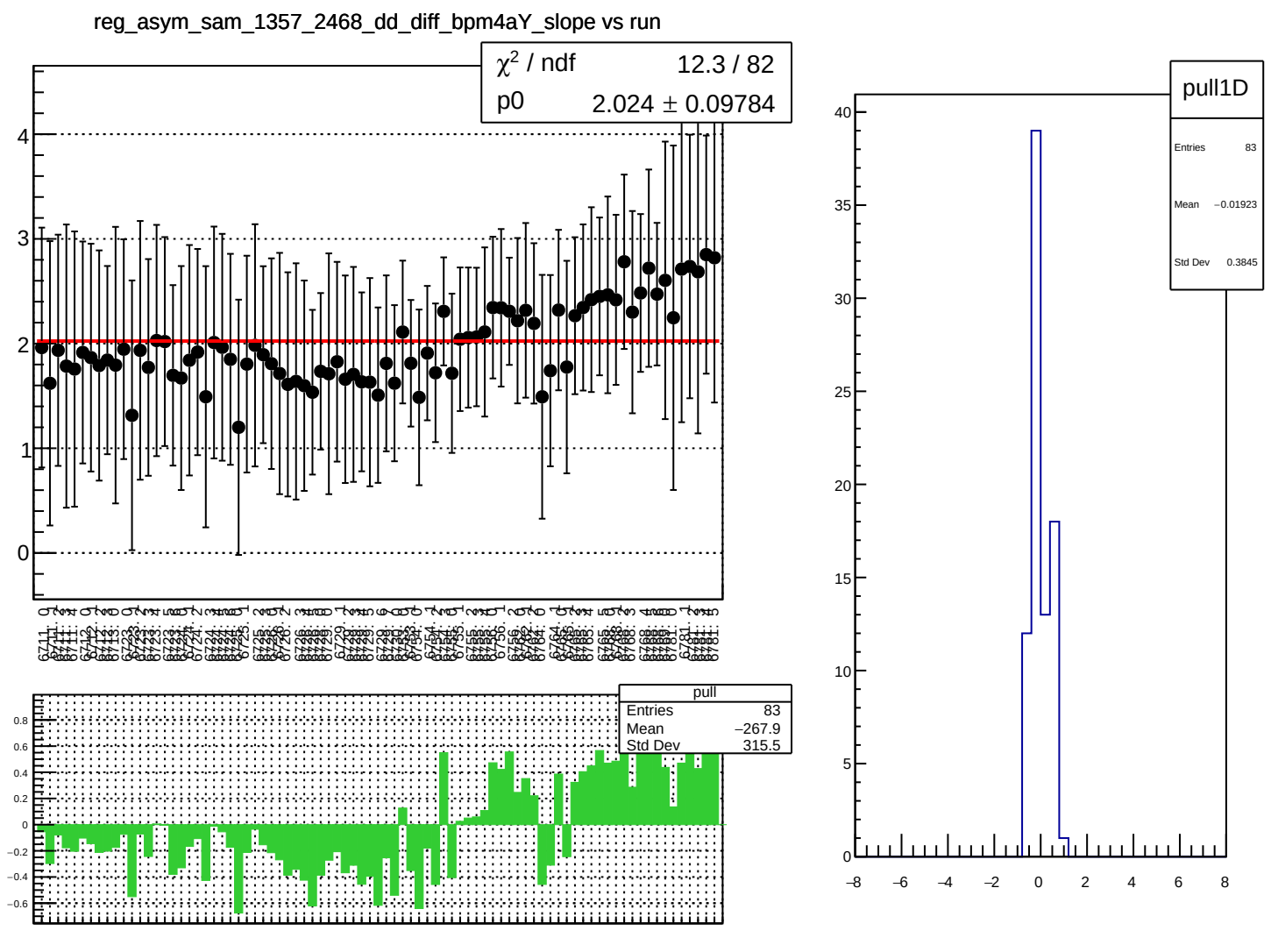

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.52 / 82
p0 −54.62 ± 0.5866
pull
Entries 83
Mean 156
Std Dev 102.9
pull1D
Entries 83
Mean −0.1228
Std Dev 0.9773

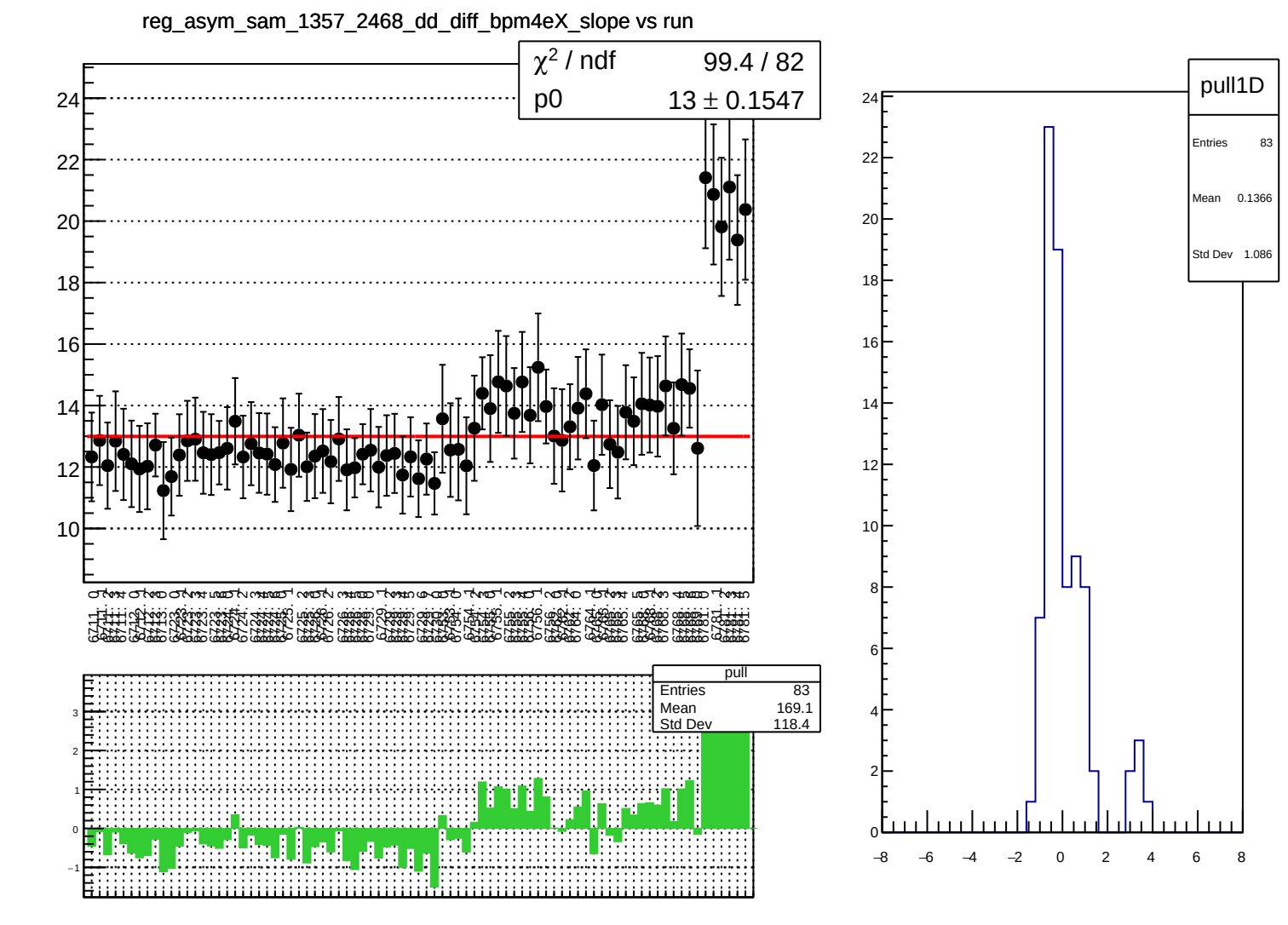

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.42 / 82
p0 45.44 ± 0.4758
pull
Entries 83
Mean 162.3
Std Dev 130

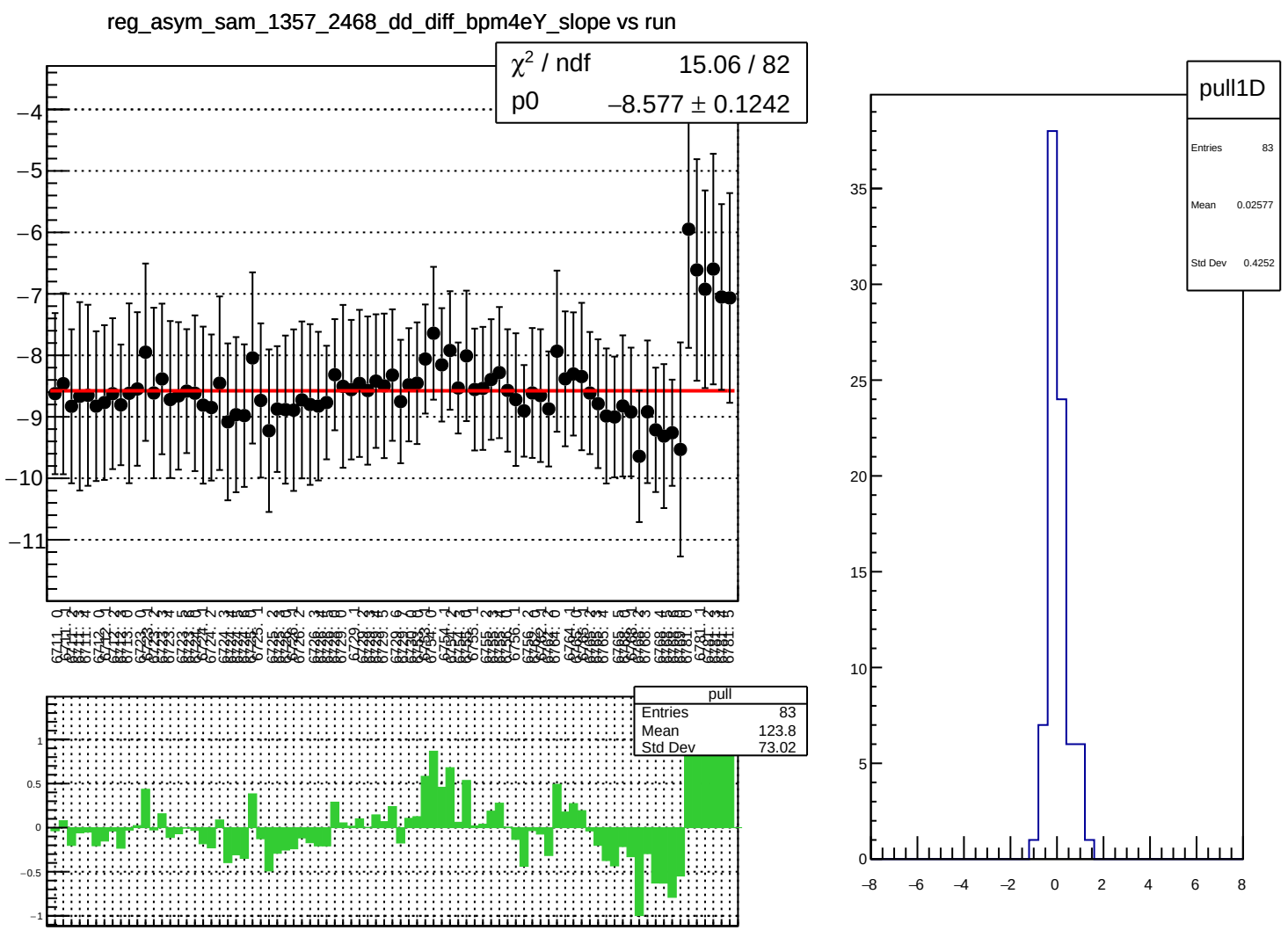

pull1D
Entries 83
Mean −0.0126
Std Dev 0.4019

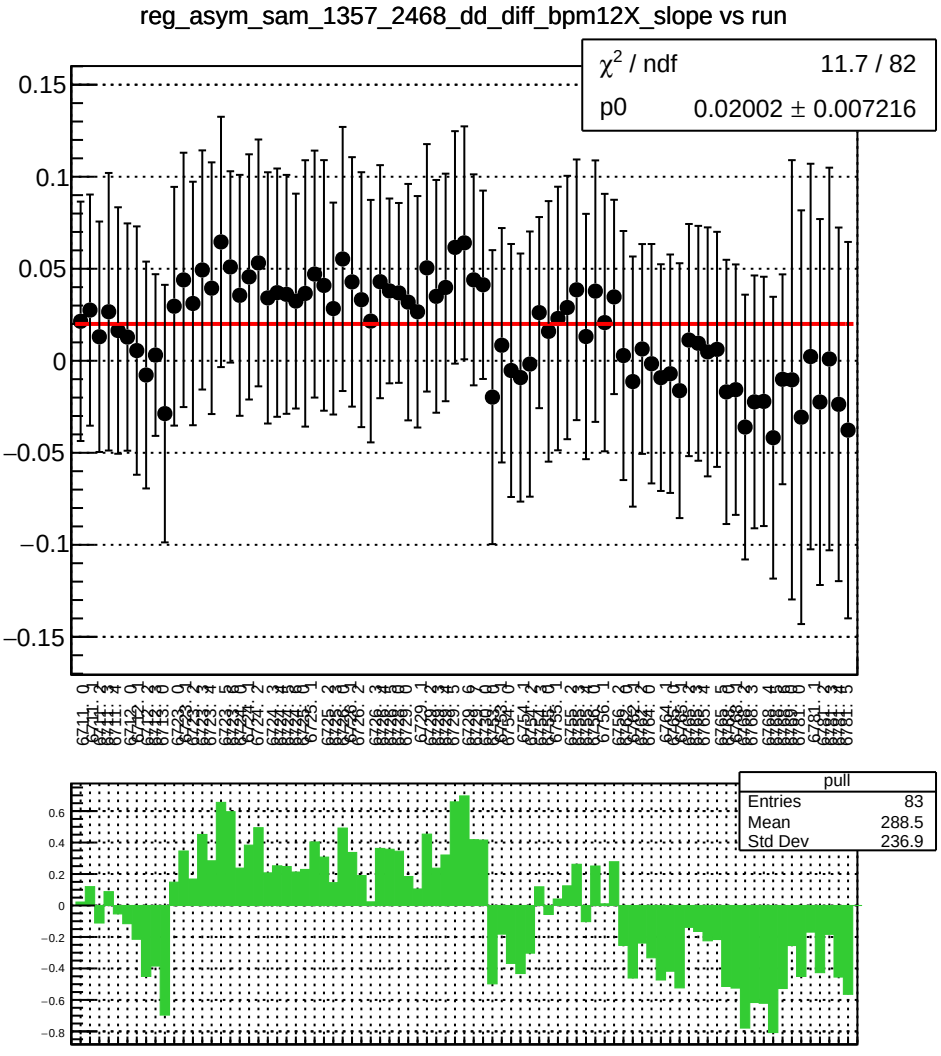

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 18.15 / 82
p0 0.06062 ± 0.02743
pull
Entries 83
Mean 246.9
Std Dev 192.9
pull1D
Entries 83
Mean 0.02765
Std Dev 0.4668

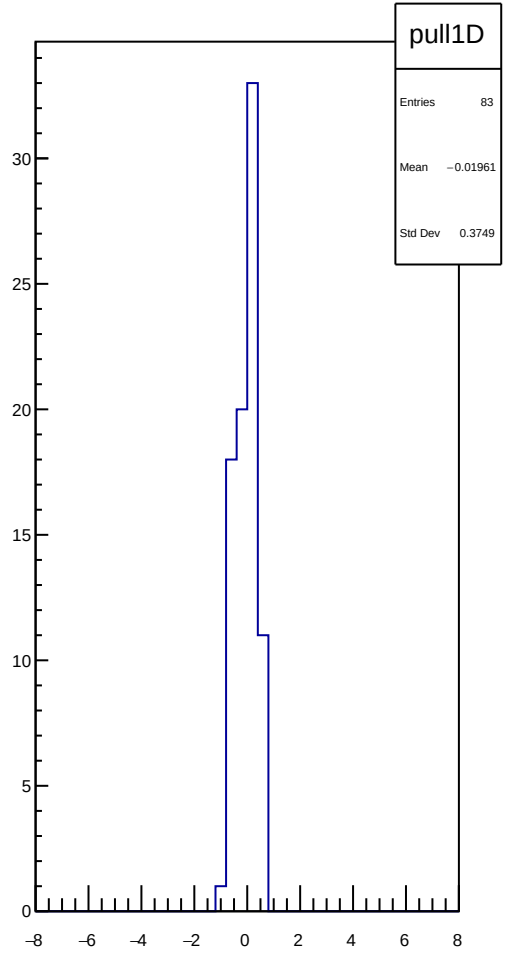

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 16.63 / 82
p0 3.432 ± 0.1611
pull
Entries 83
Mean 180
Std Dev 136.2
pull1D
Entries 83
Mean 0.03687
Std Dev 0.4461

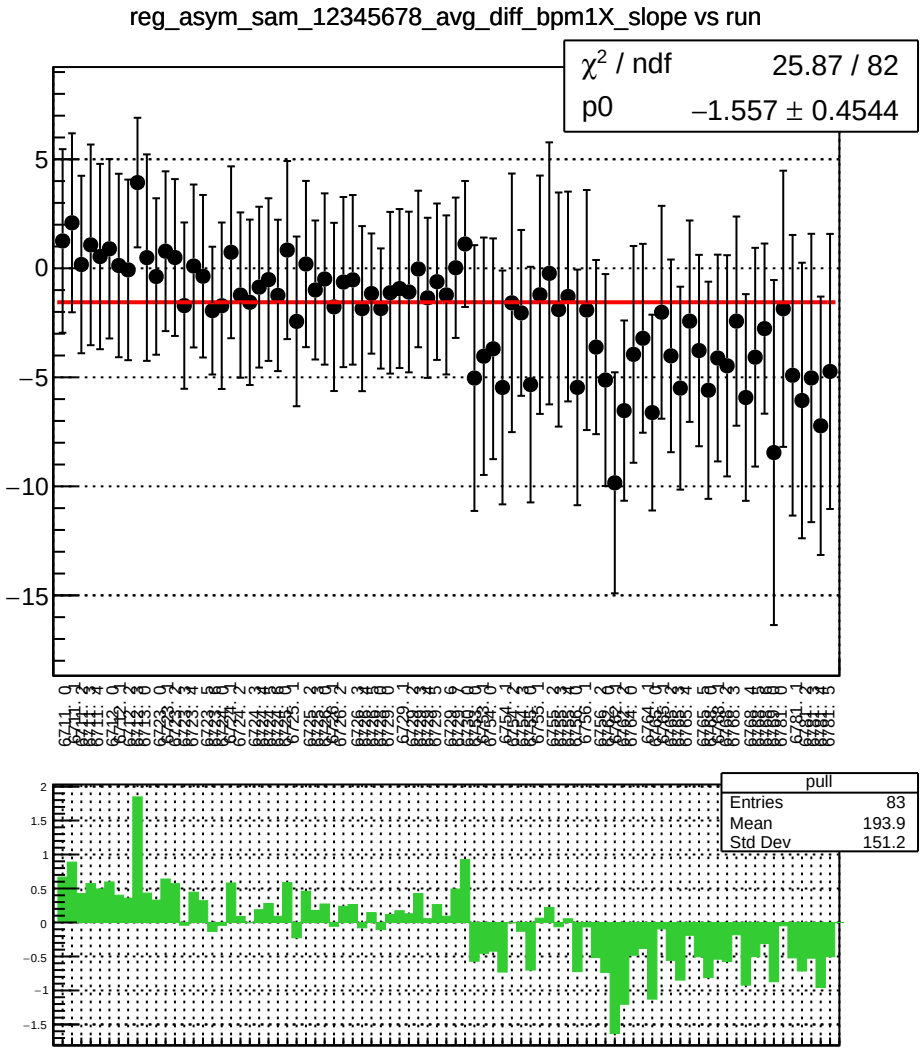

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.3 / 82
p0 2.024 ± 0.09784
pull
Entries 83
Mean −267.9
Std Dev 315.5
pull1D
Entries 83
Mean −0.01923
Std Dev 0.3845

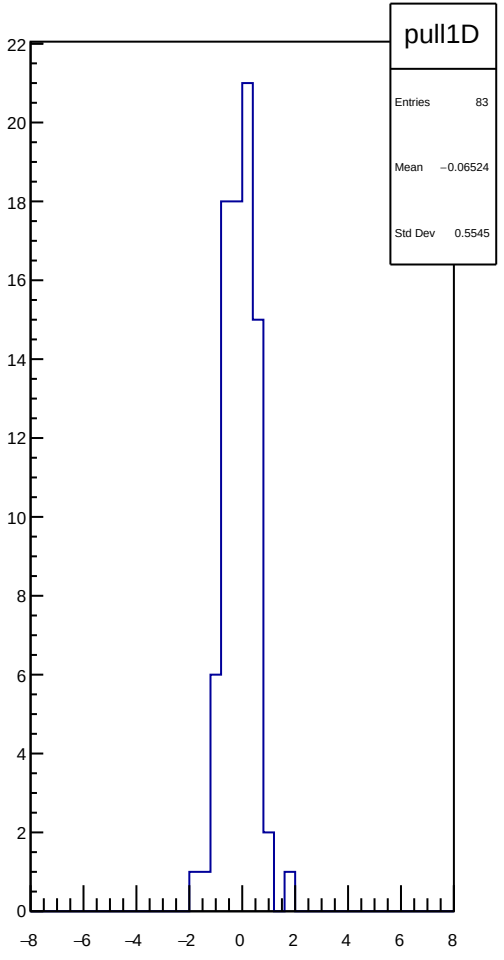

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 99.4 / 82
p0 13 ± 0.1547
pull
Entries 83
Mean 169.1
Std Dev 118.4
pull1D
Entries 83
Mean 0.1366
Std Dev 1.086

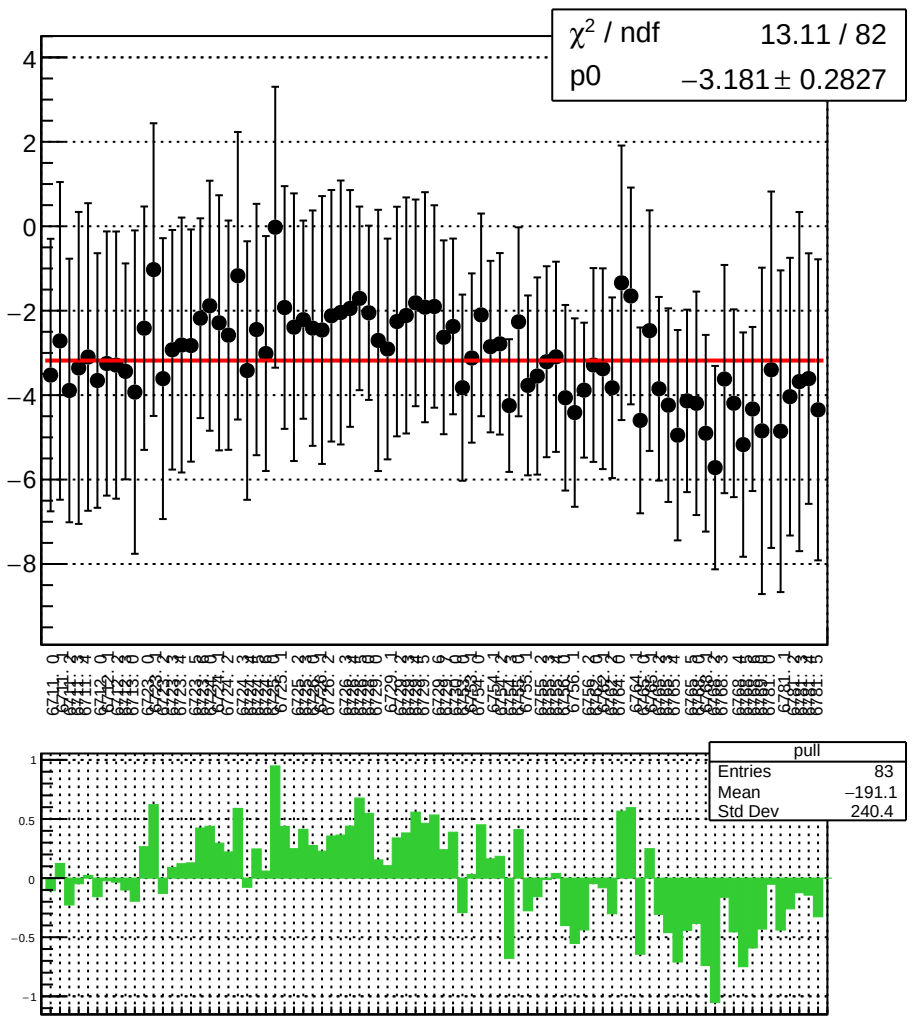

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.06 / 82
p0 −8.577 ± 0.1242
pull
Entries 83
Mean 123.8
Std Dev 73.02
pull1D
Entries 83
Mean 0.02577
Std Dev 0.4252

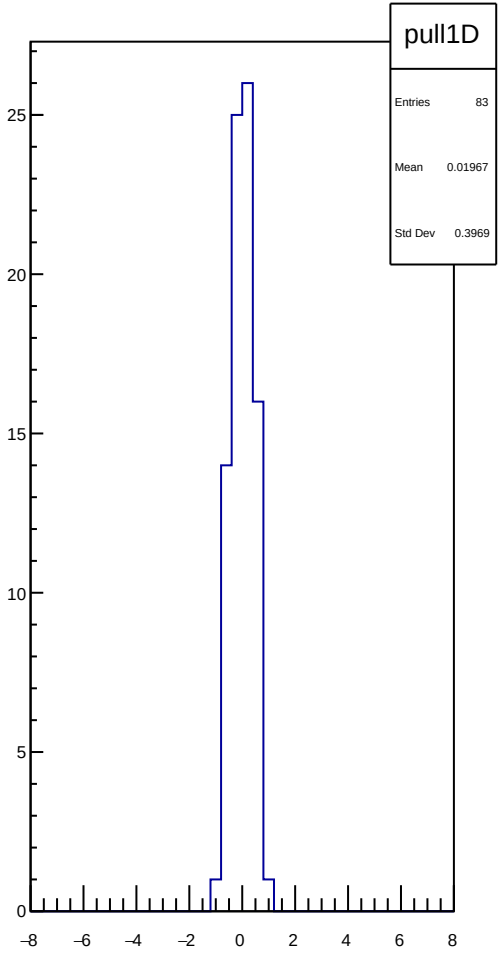

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 11.7 / 82
p0 0.02002 ± 0.007216
pull
Entries 83
Mean 288.5
Std Dev 236.9

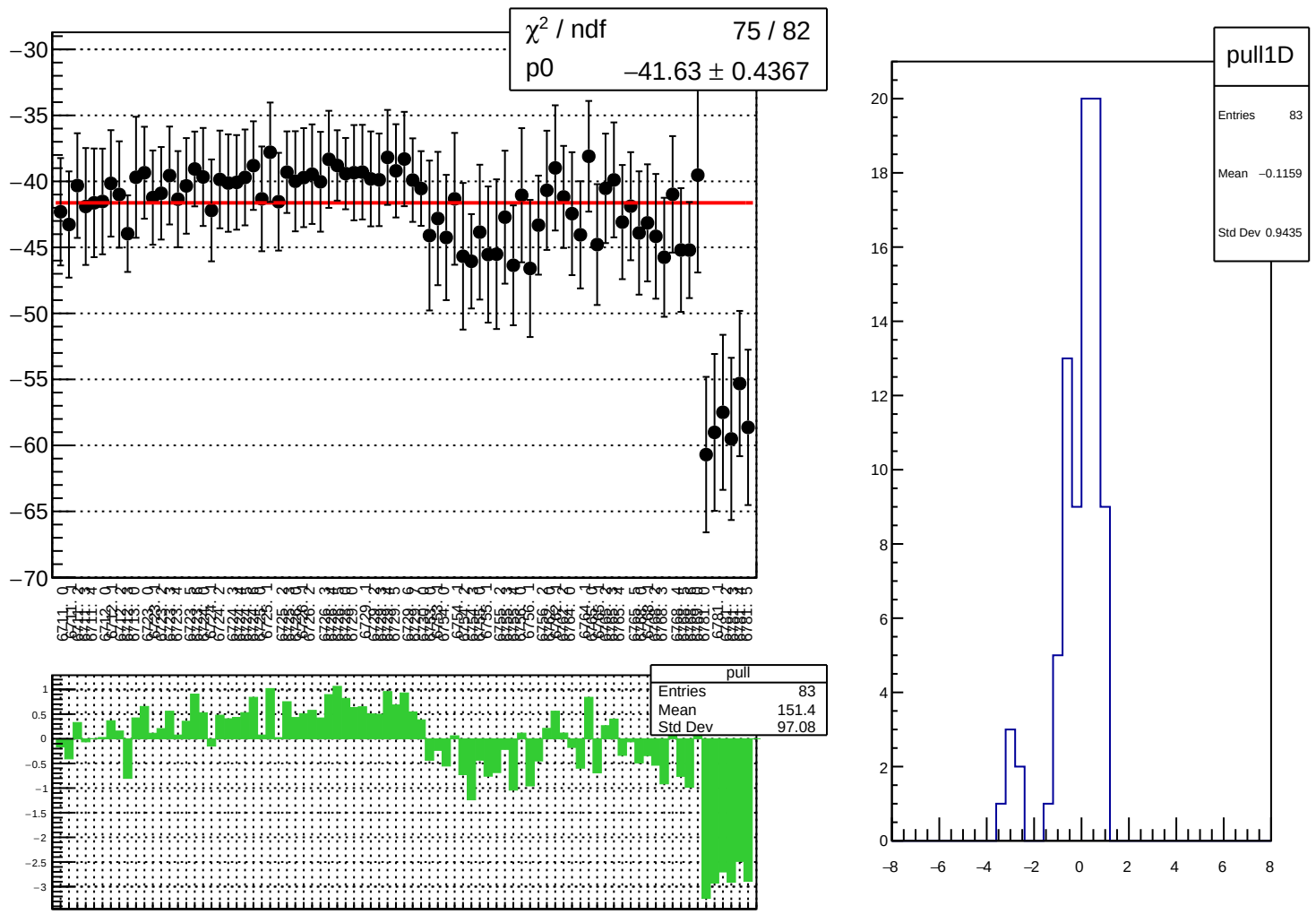

pull1D
Entries 83
Mean −0.01961
Std Dev 0.3749

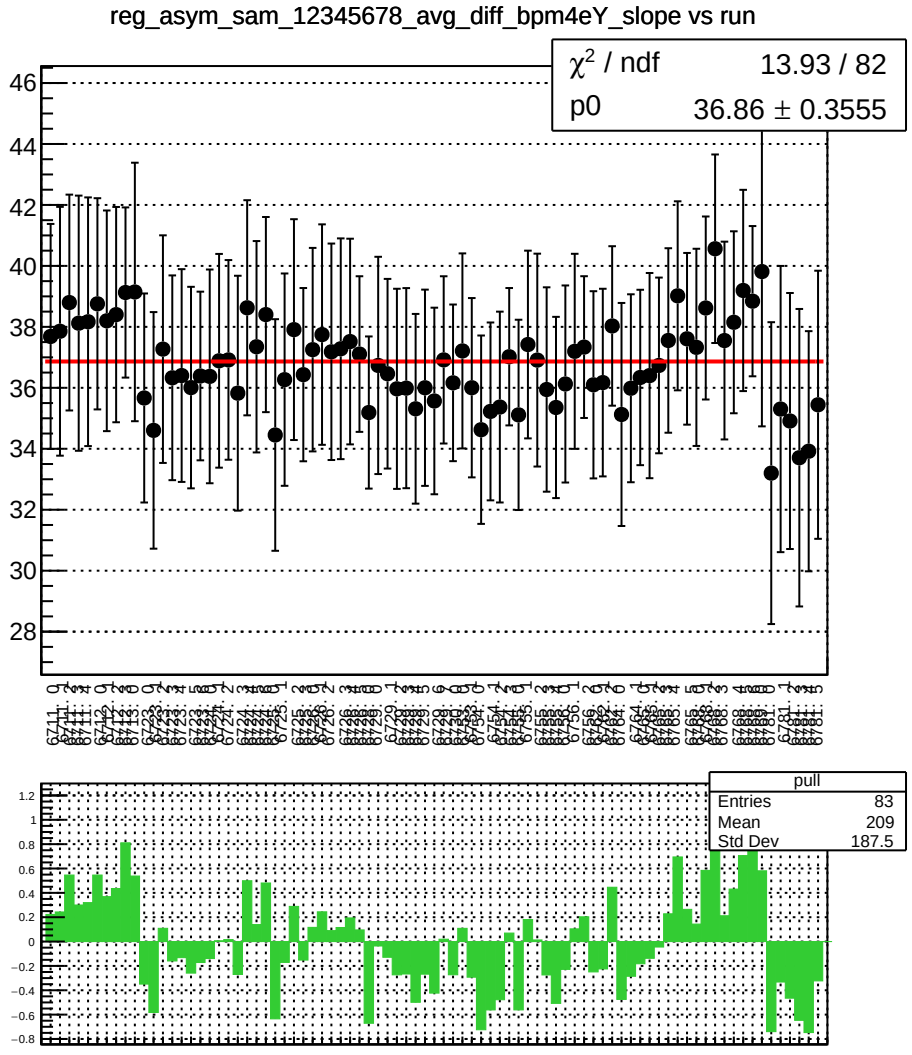

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 25.87 / 82
p0 −1.557 ± 0.4544
pull
Entries 83
Mean 193.9
Std Dev 151.2

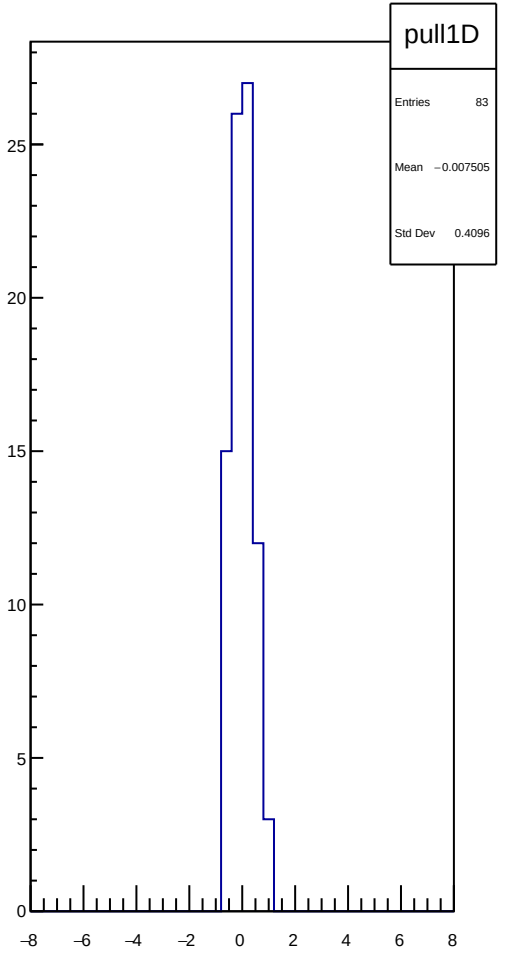

pull1D
Entries 83
Mean −0.06524
Std Dev 0.5545

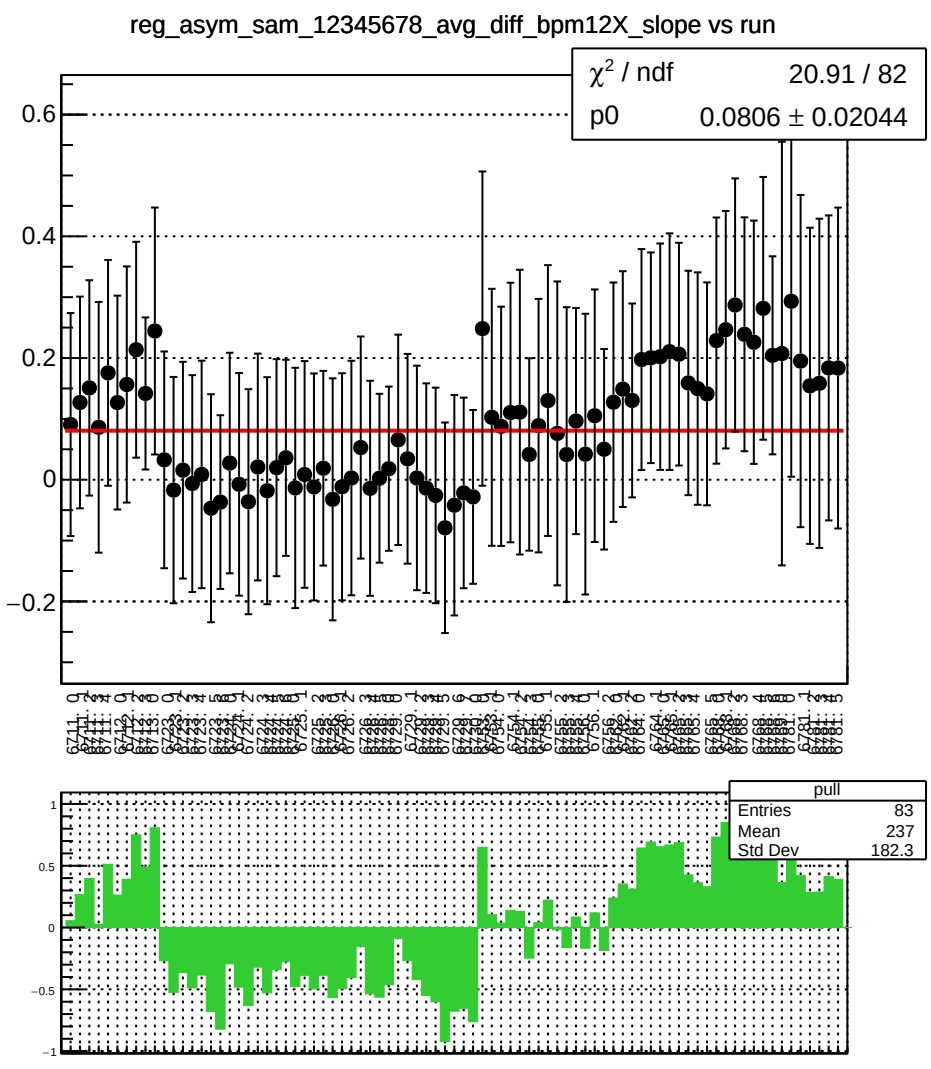

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.11 / 82
p0 −3.181 ± 0.2827
pull
Entries 83
Mean −191.1
Std Dev 240.4

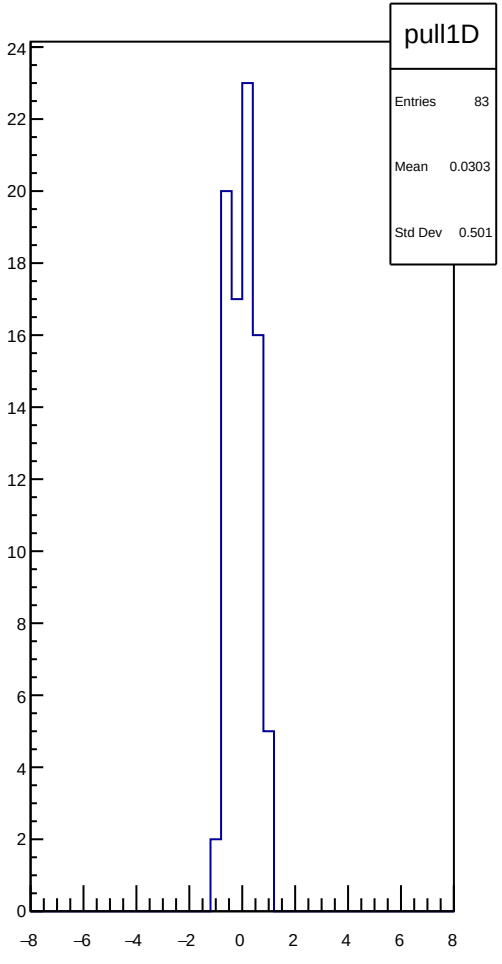

pull1D
Entries 83
Mean 0.01967
Std Dev 0.3969

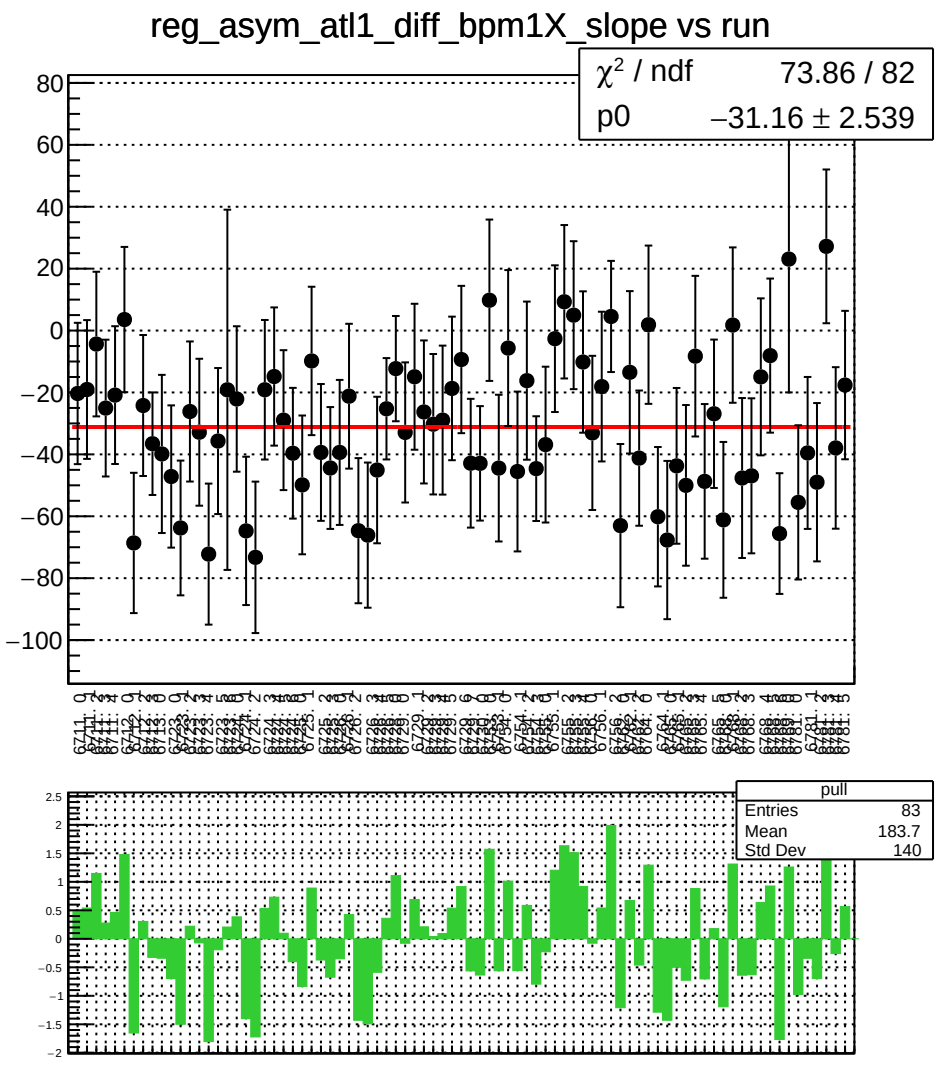

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 75 / 82
p0 −41.63 ± 0.4367
pull
Entries 83
Mean 151.4
Std Dev 97.08
pull1D
Entries 83
Mean −0.1159
Std Dev 0.9435

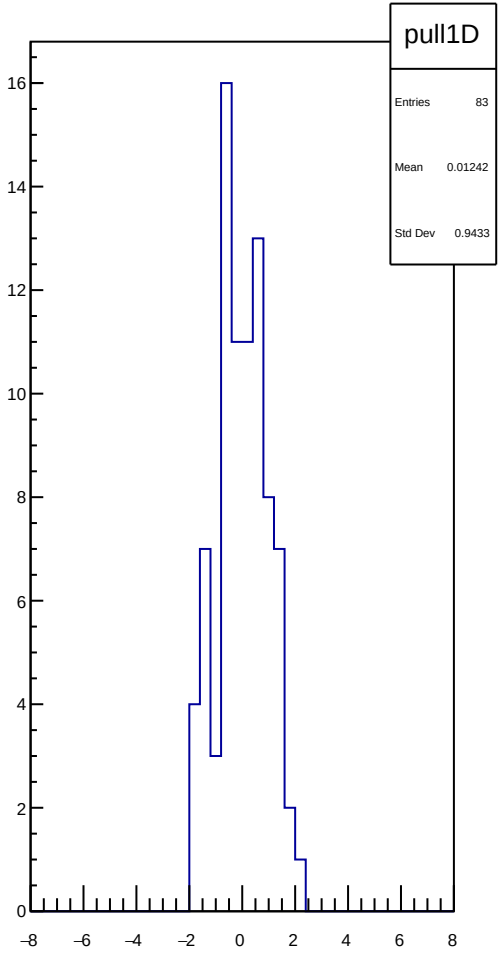

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.93 / 82
p0 36.86 ± 0.3555
pull
Entries 83
Mean 209
Std Dev 187.5

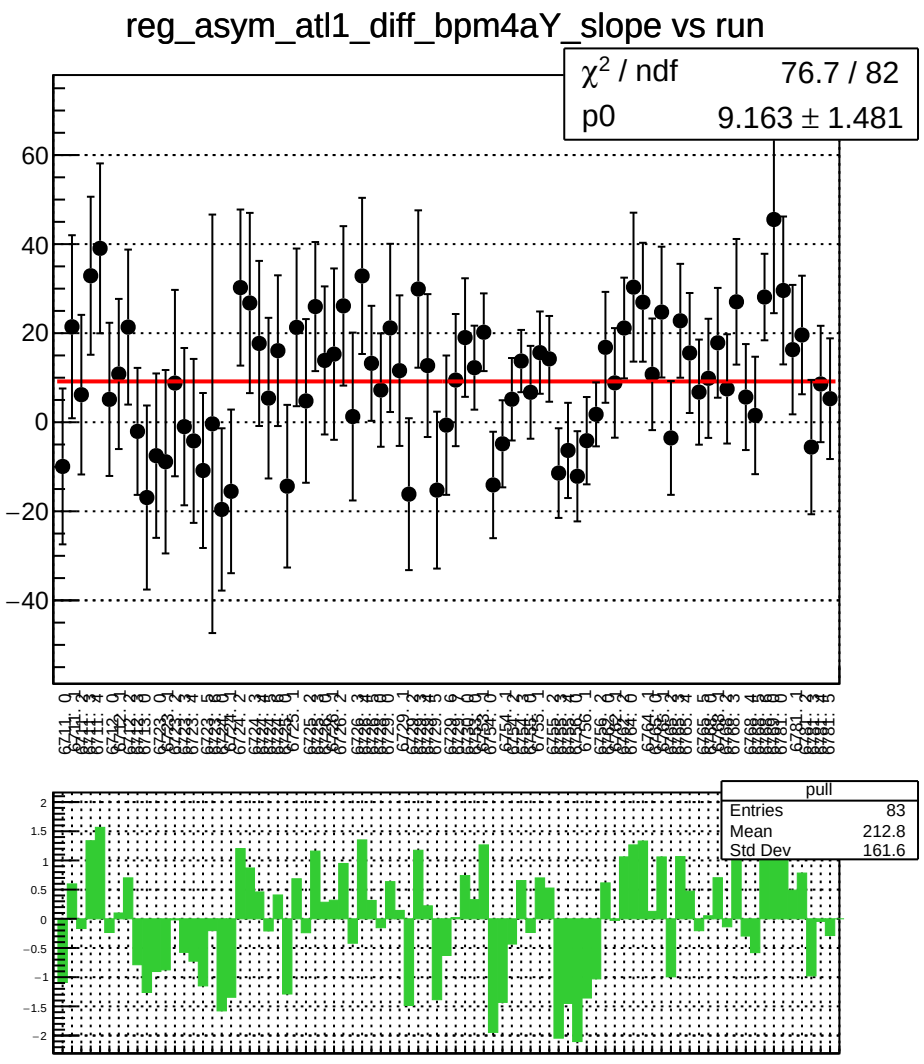

pull1D
Entries 83
Mean −0.007505
Std Dev 0.4096

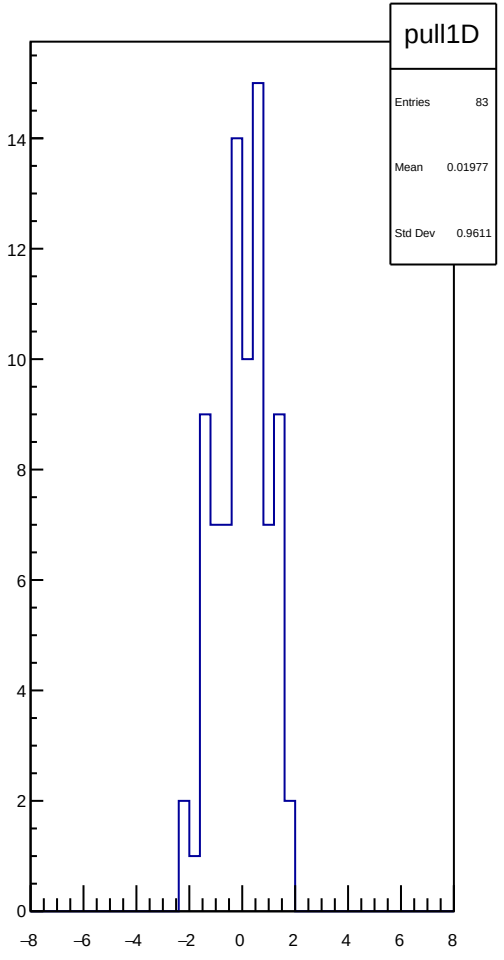

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 20.91 / 82
p0 0.0806 ± 0.02044
pull
Entries 83
Mean 237
Std Dev 182.3

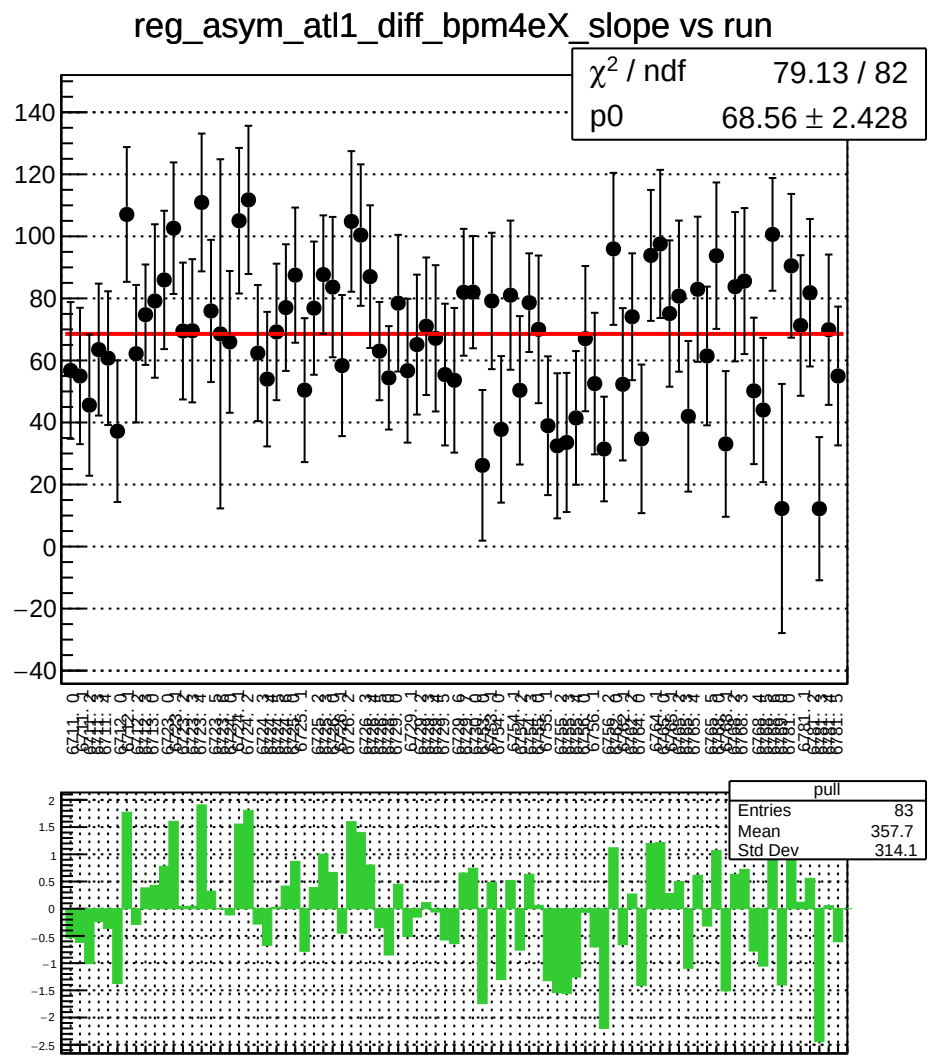

pull1D
Entries 83
Mean 0.0303
Std Dev 0.501

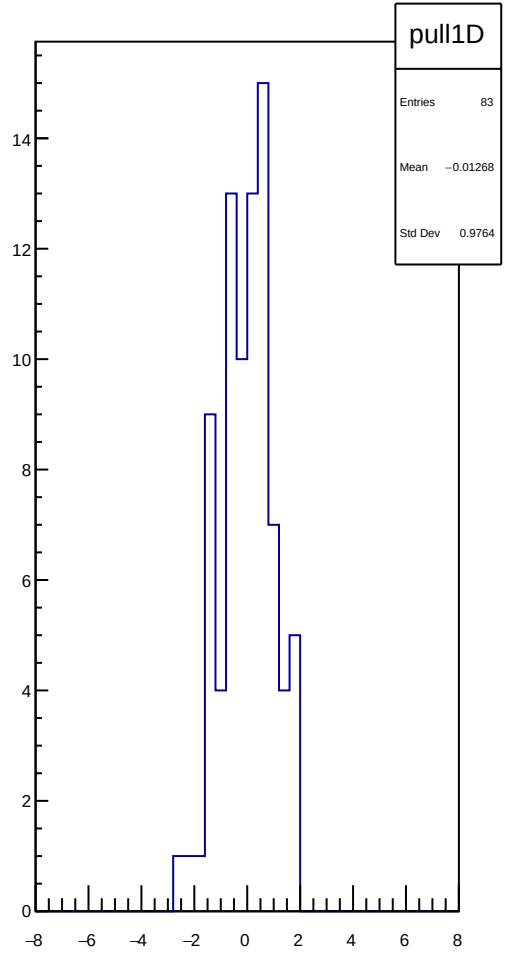

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 73.86 / 82
p0 −31.16 ± 2.539
pull
Entries 83
Mean 183.7
Std Dev 140

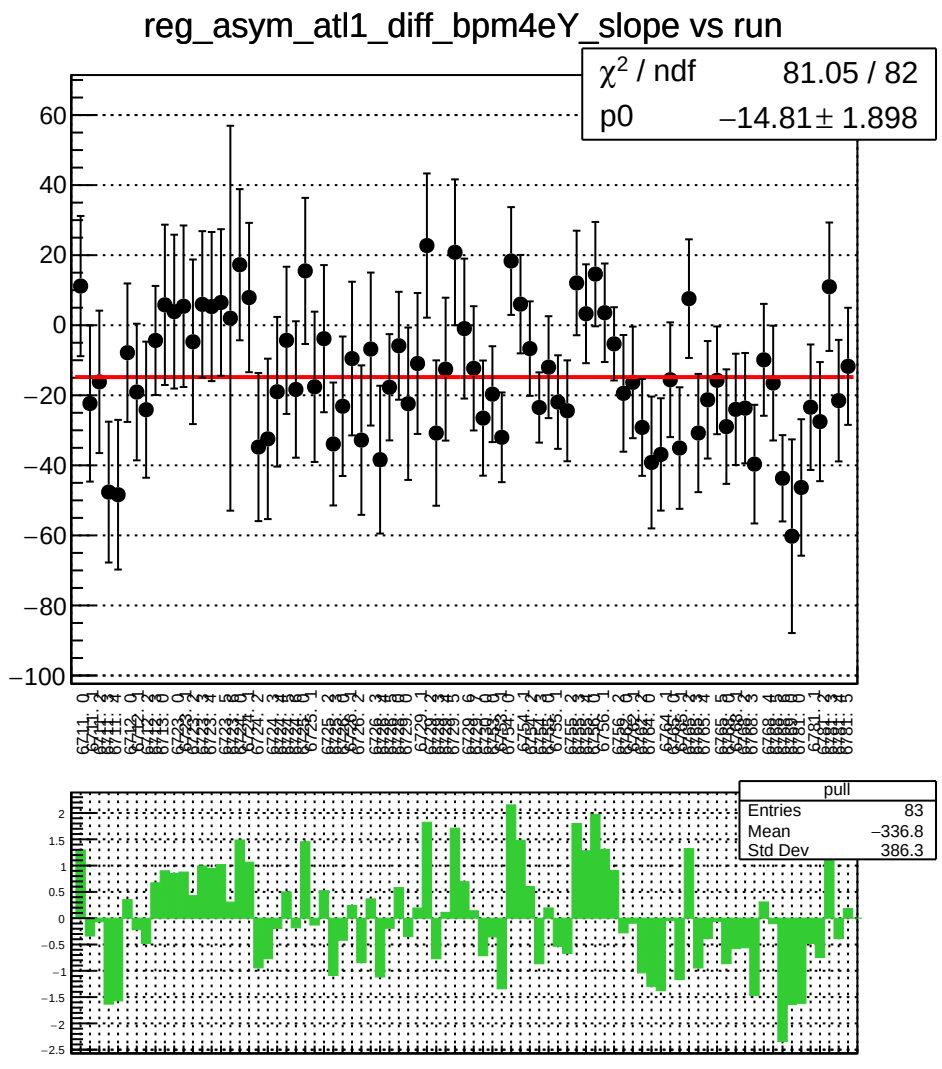

pull1D
Entries 83
Mean 0.01242
Std Dev 0.9433

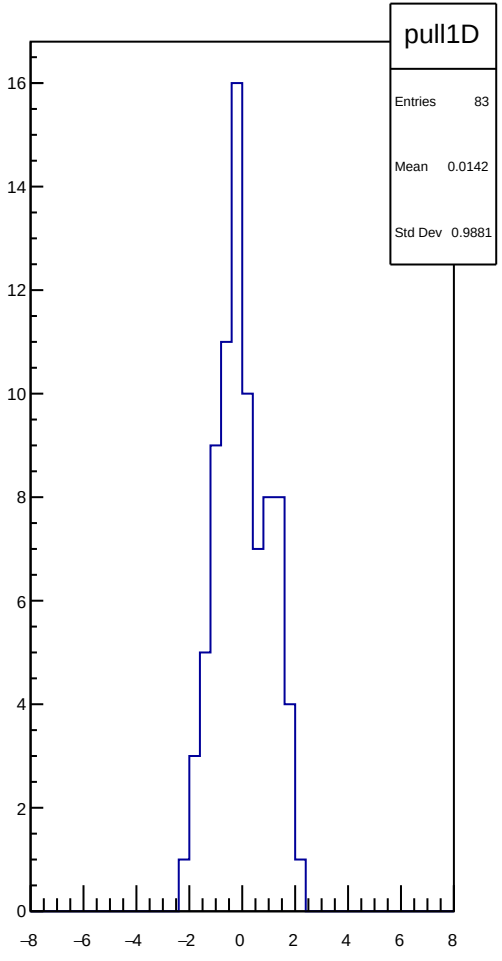

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 76.7 / 82
p0 9.163 ± 1.481
pull
Entries 83
Mean 212.8
Std Dev 161.6

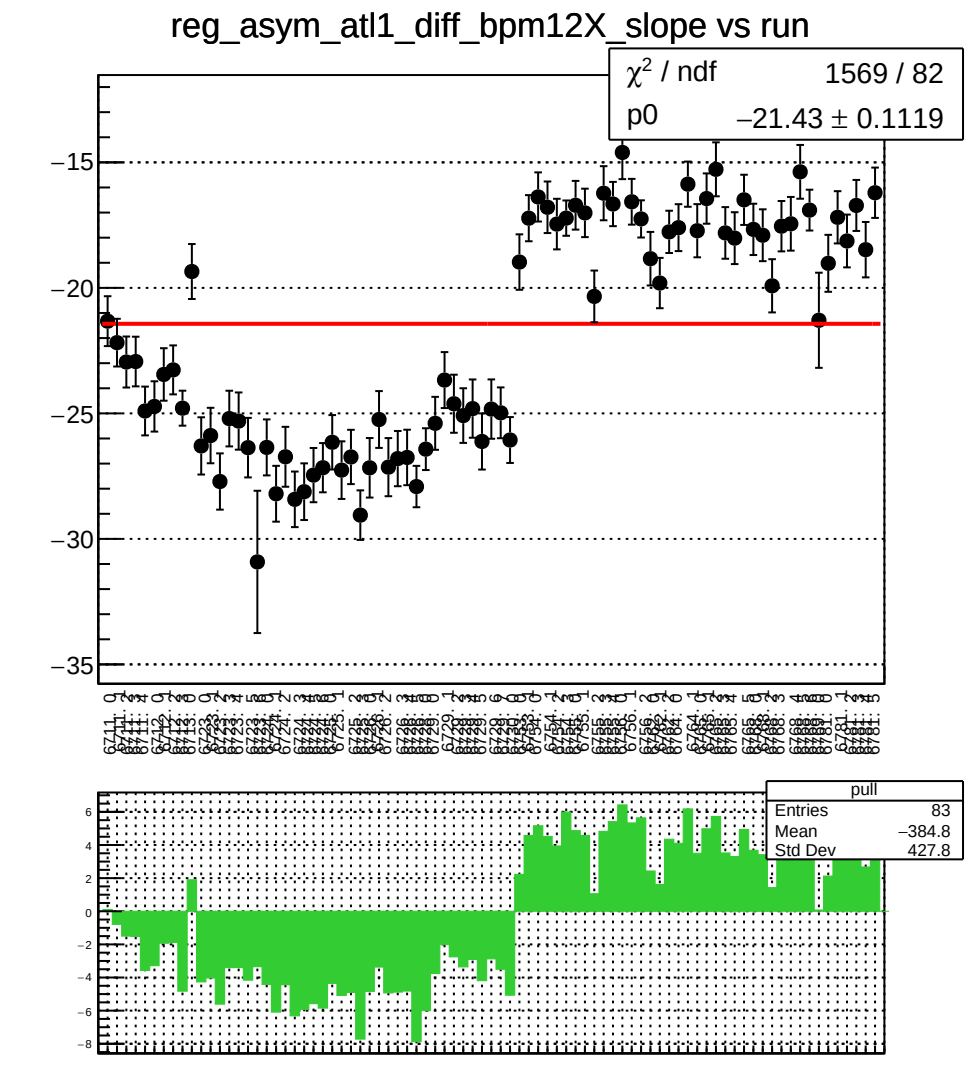

pull1D
Entries 83
Mean 0.01977
Std Dev 0.9611

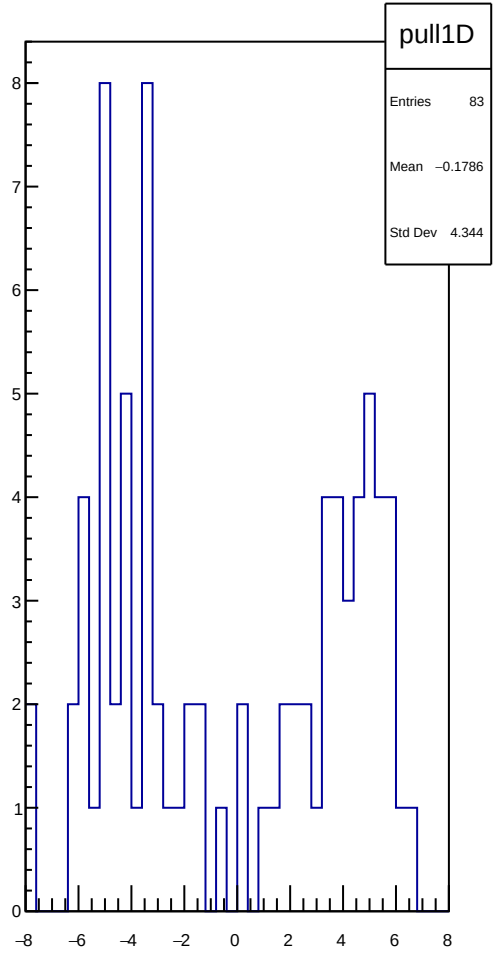

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 79.13 / 82
p0 68.56 ± 2.428
pull
Entries 83
Mean 357.7
Std Dev 314.1

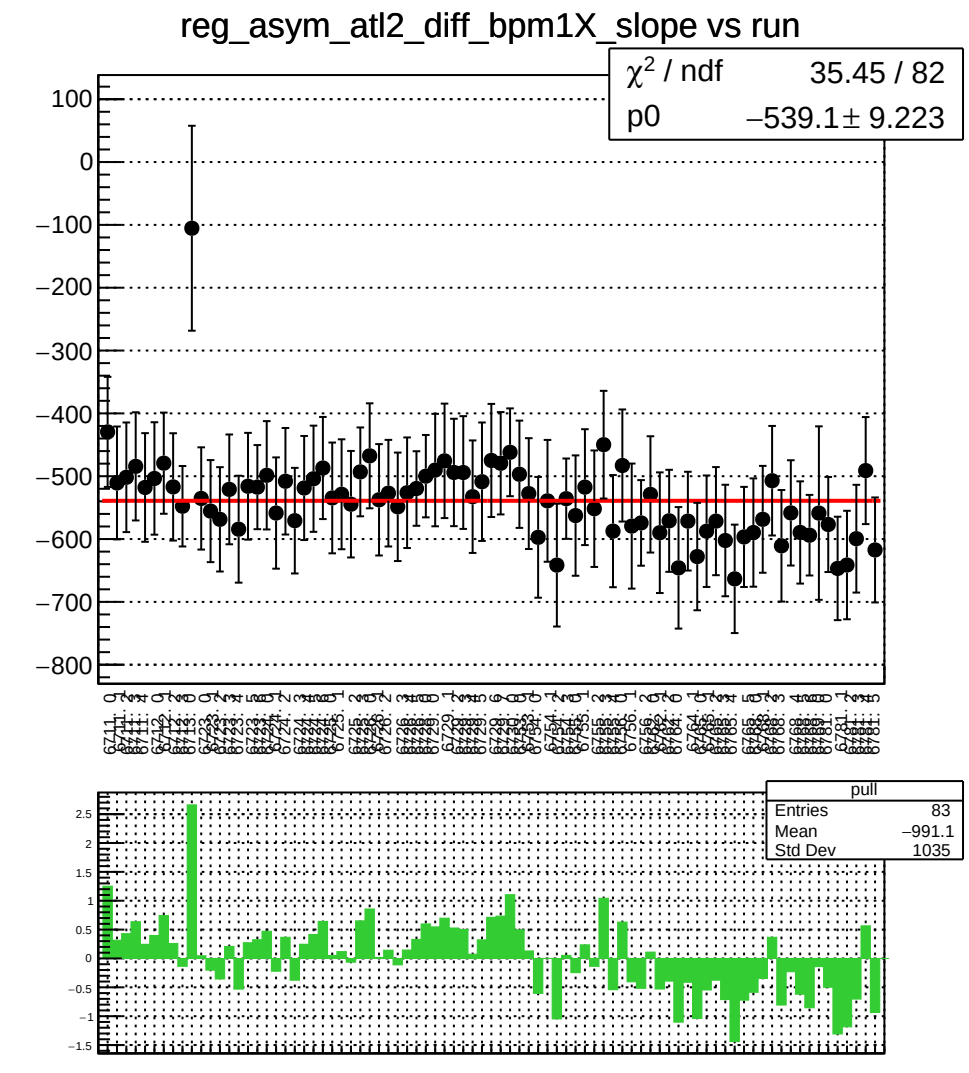

pull1D
Entries 83
Mean −0.01268
Std Dev 0.9764

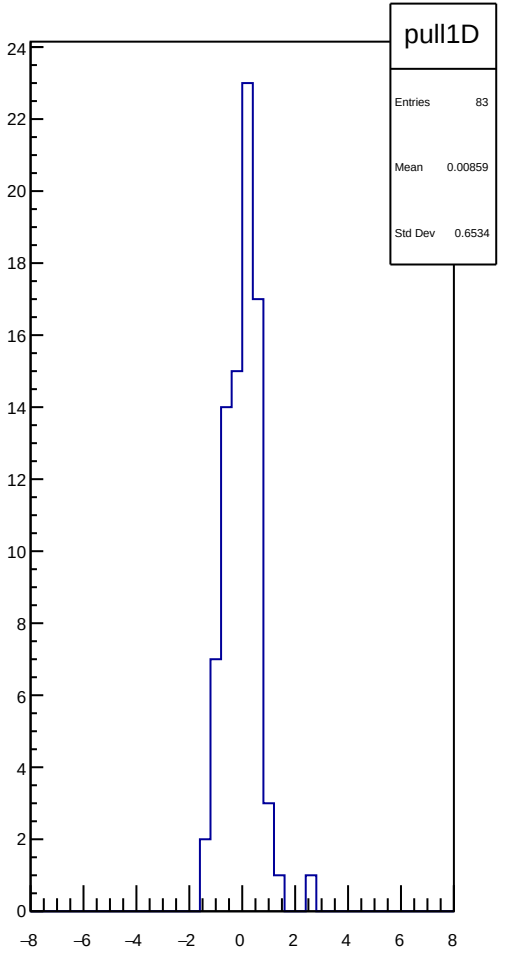

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 81.05 / 82
p0 −14.81 ± 1.898
pull
Entries 83
Mean −336.8
Std Dev 386.3

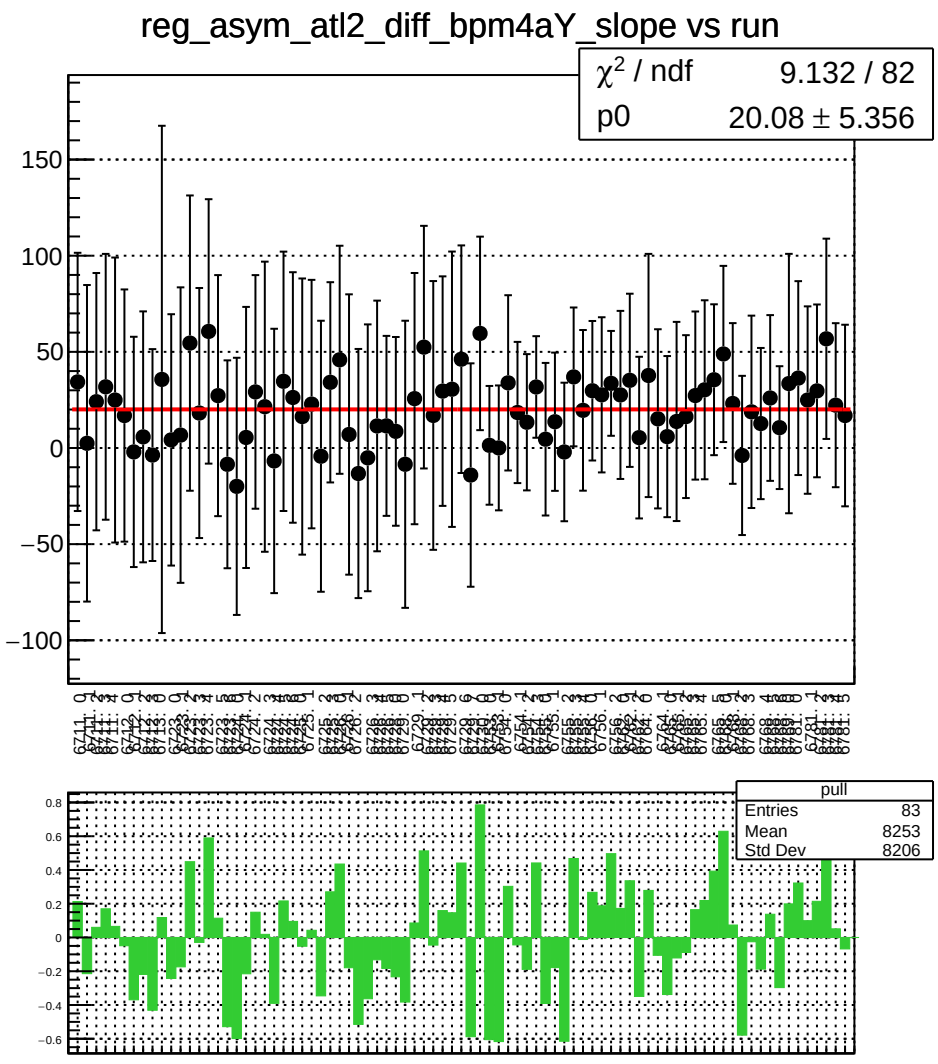

pull1D
Entries 83
Mean 0.0142
Std Dev 0.9881

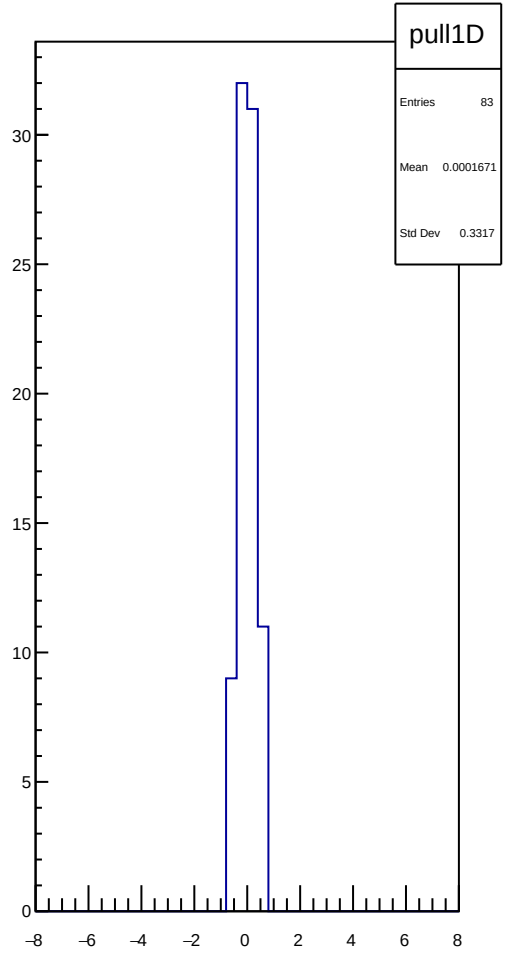

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 1569 / 82
p0 −21.43 ± 0.1119
pull
Entries 83
Mean −384.8
Std Dev 427.8

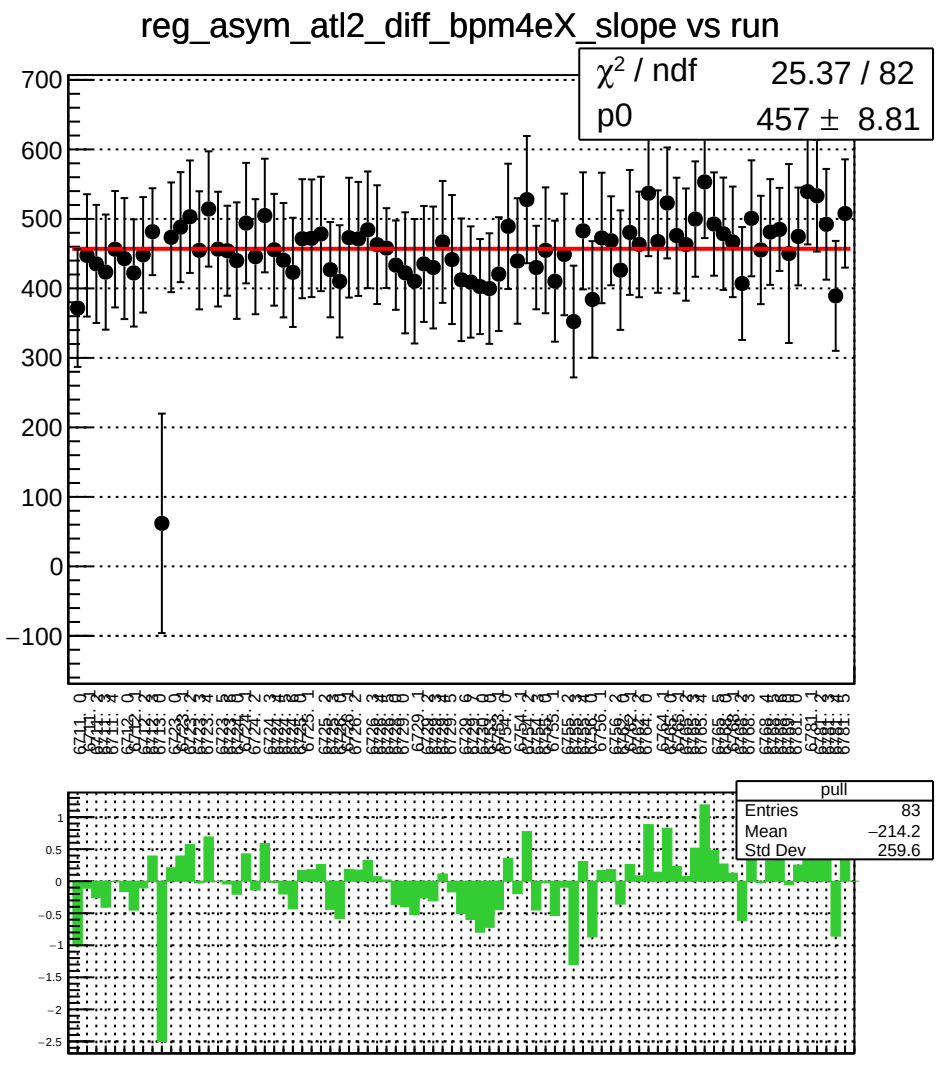

pull1D
Entries 83
Mean −0.1786
Std Dev 4.344

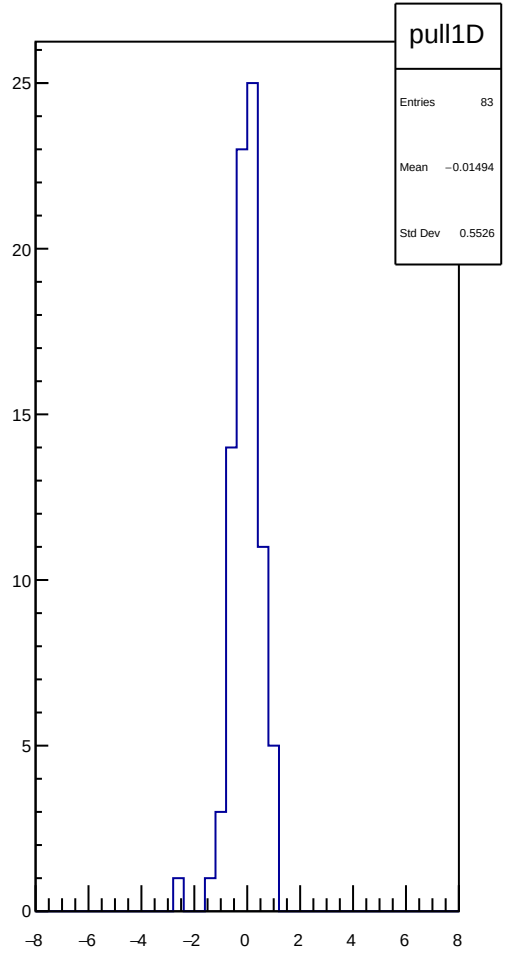

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 35.45 / 82
p0 −539.1 ± 9.223
pull
Entries 83
Mean −991.1
Std Dev 1035

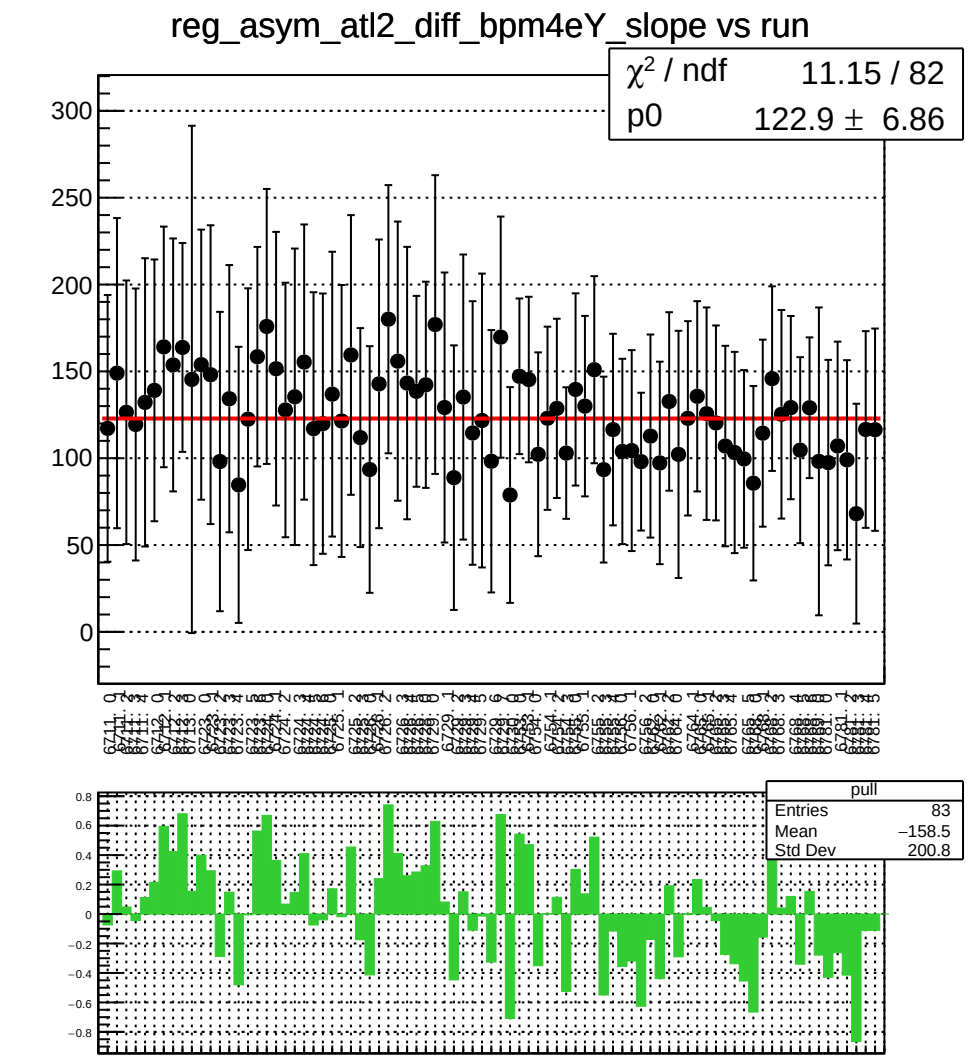

pull1D
Entries 83
Mean 0.00859
Std Dev 0.6534

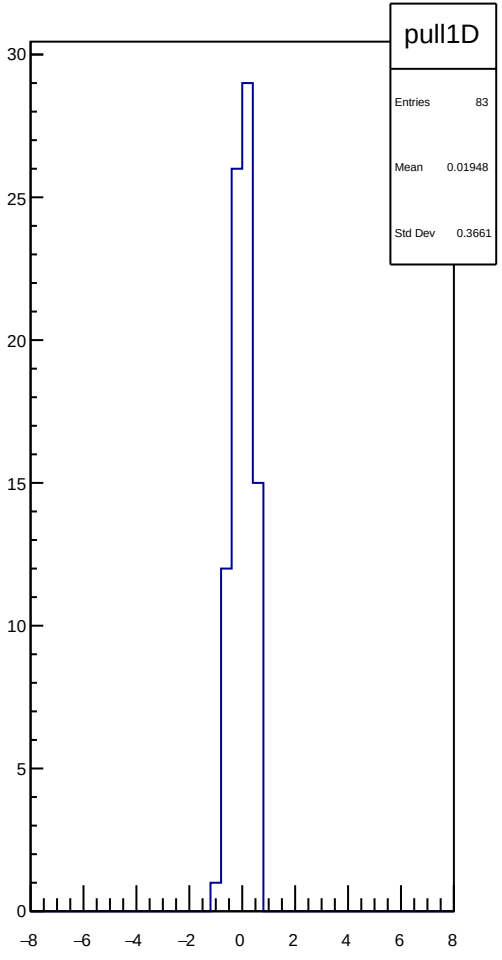

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 9.132 / 82
p0 20.08 ± 5.356
150
100
50
0
−50
−100
pull
Entries 83
Mean 8253
Std Dev 8206
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

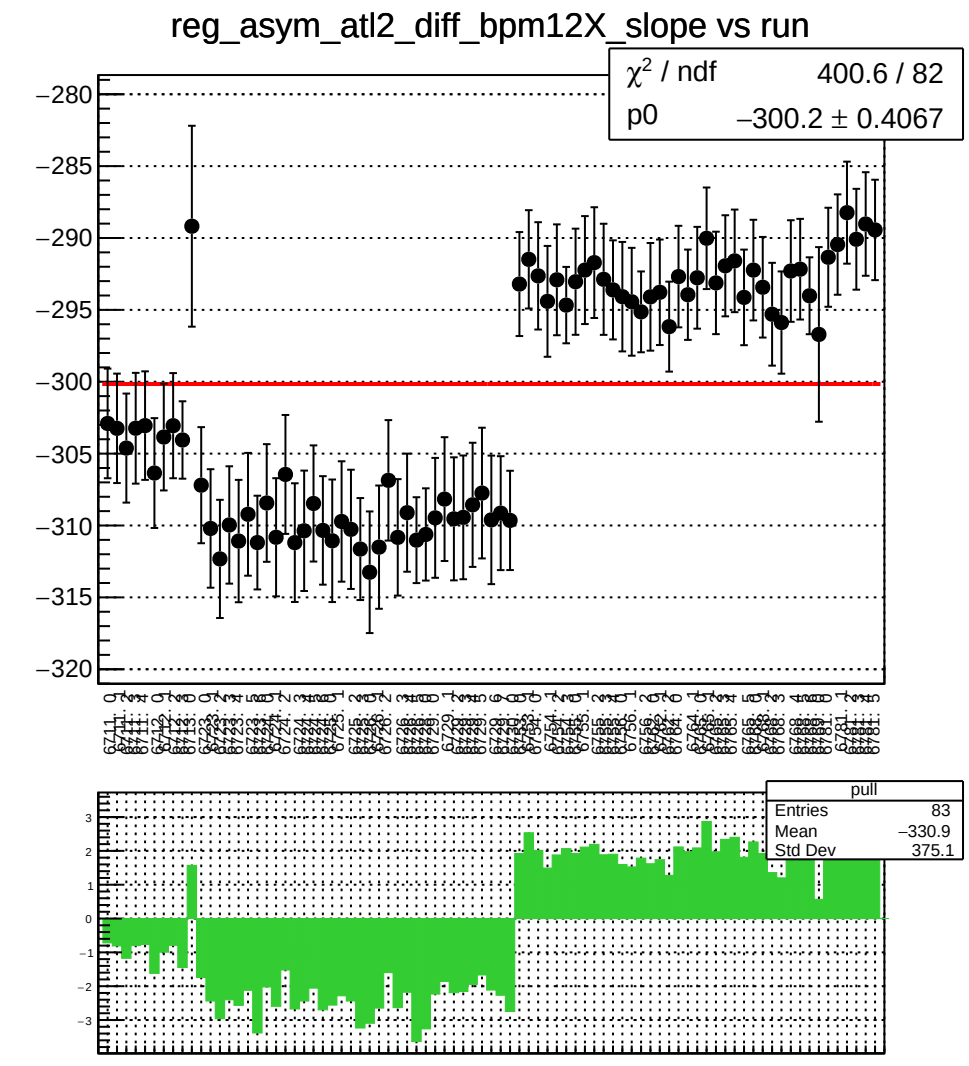

pull1D
Entries 83
Mean 0.0001671
Std Dev 0.3317
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

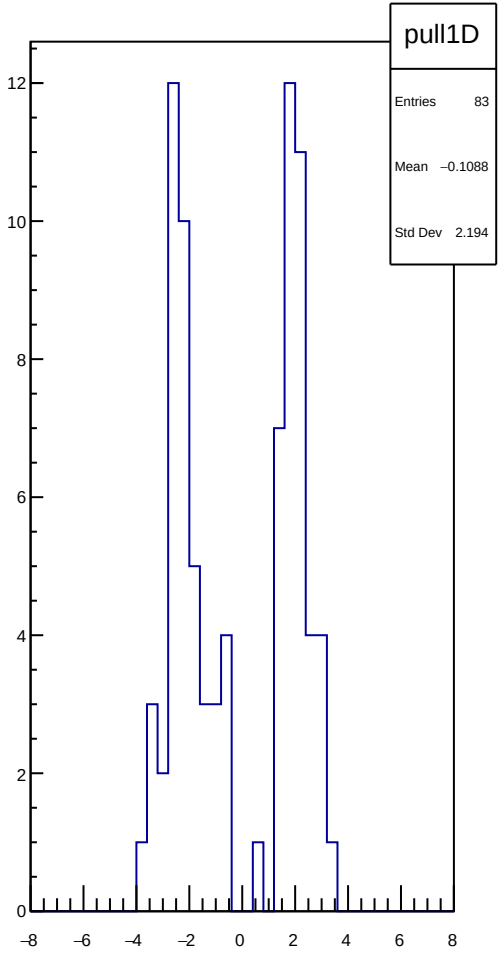

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 25.37 / 82
p0 457 ± 8.81
pull
Entries 83
Mean −214.2
Std Dev 259.6

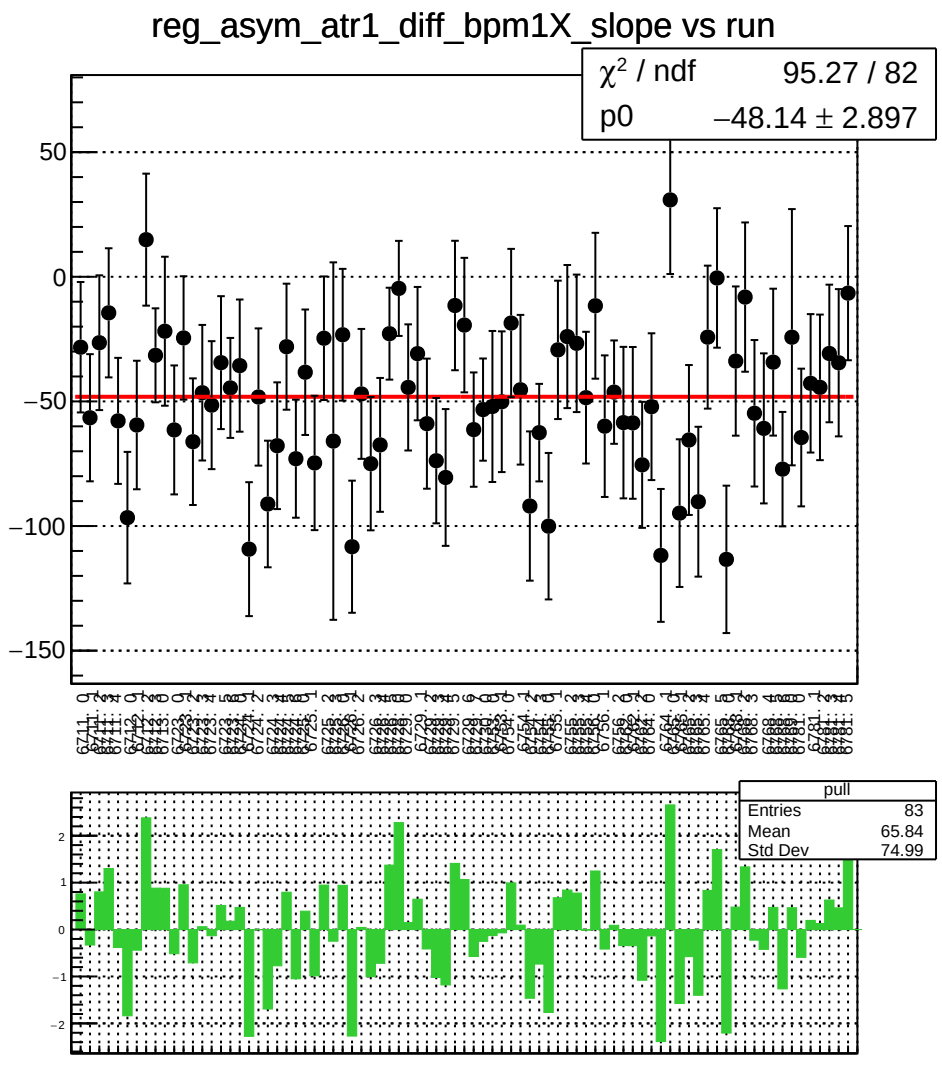

pull1D
Entries 83
Mean −0.01494
Std Dev 0.5526

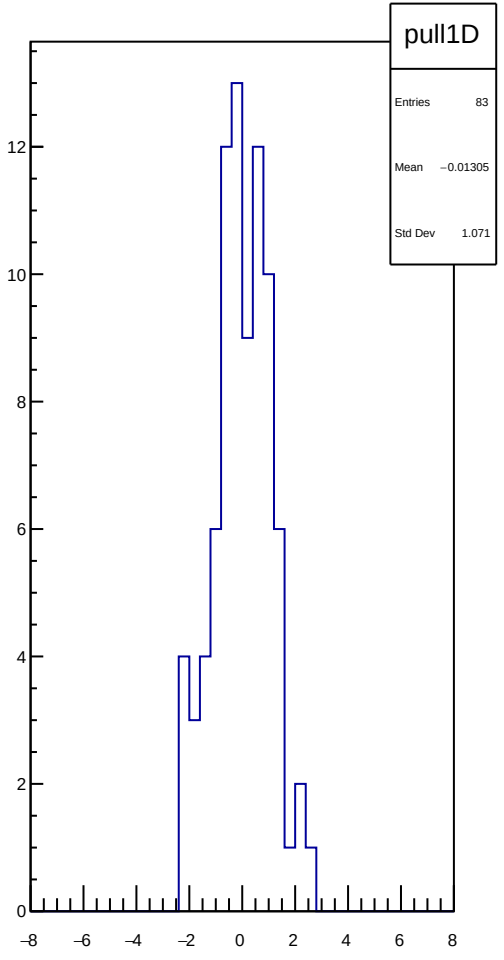

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 11.15 / 82
p0 122.9 ± 6.86
pull
Entries 83
Mean −158.5
Std Dev 200.8

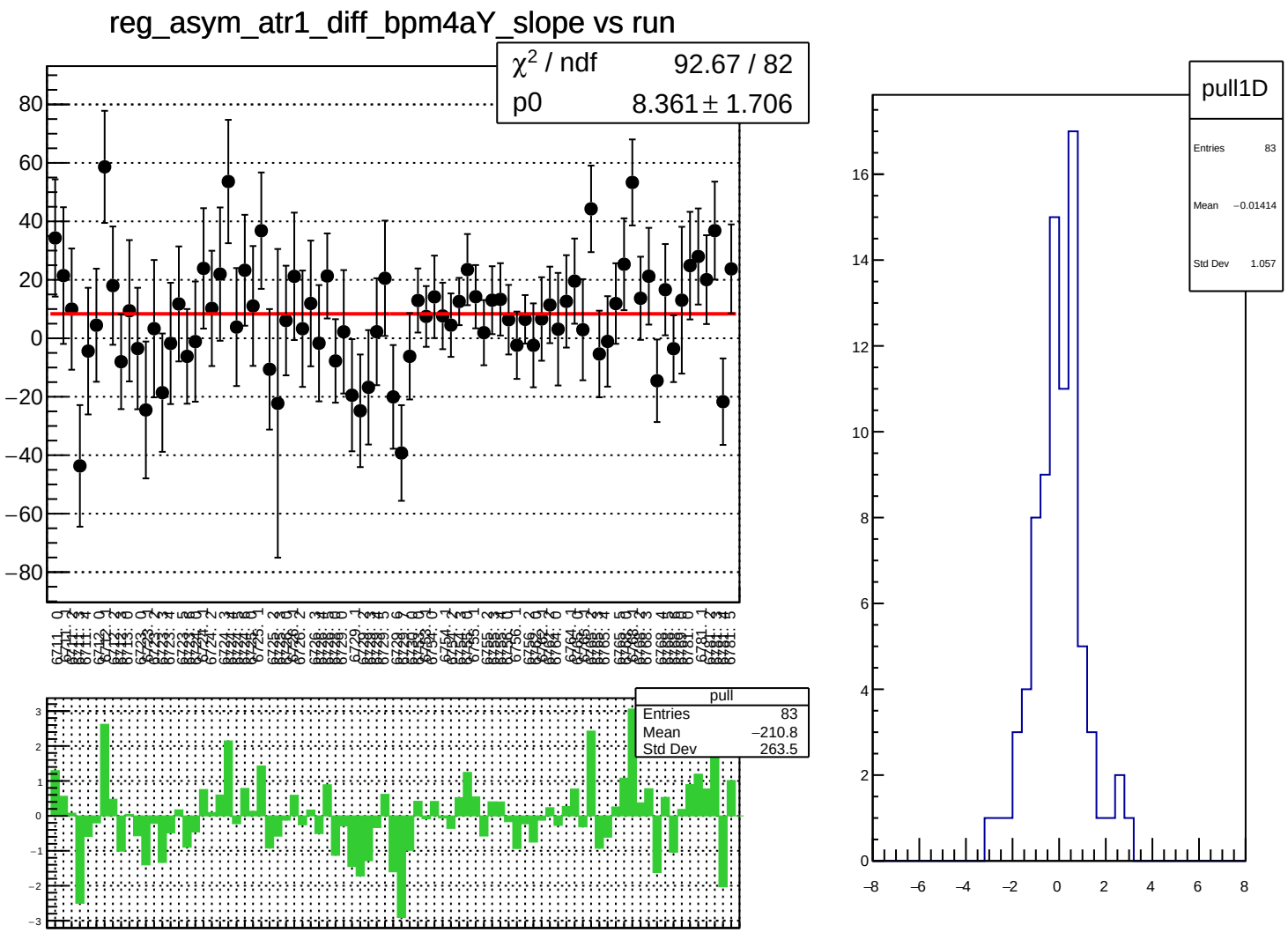

pull1D
Entries 83
Mean 0.01948
Std Dev 0.3661

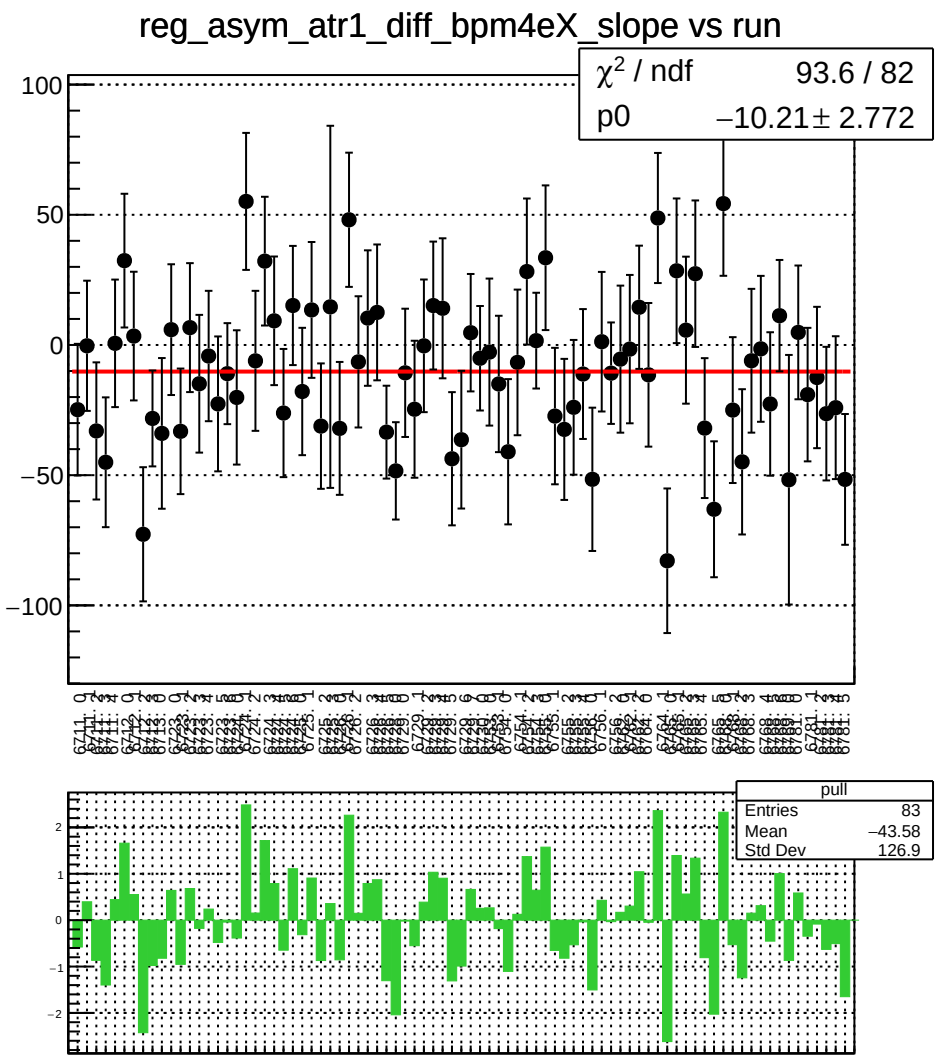

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 400.6 / 82
p0 −300.2 ± 0.4067
pull
Entries 83
Mean −330.9
Std Dev 375.1

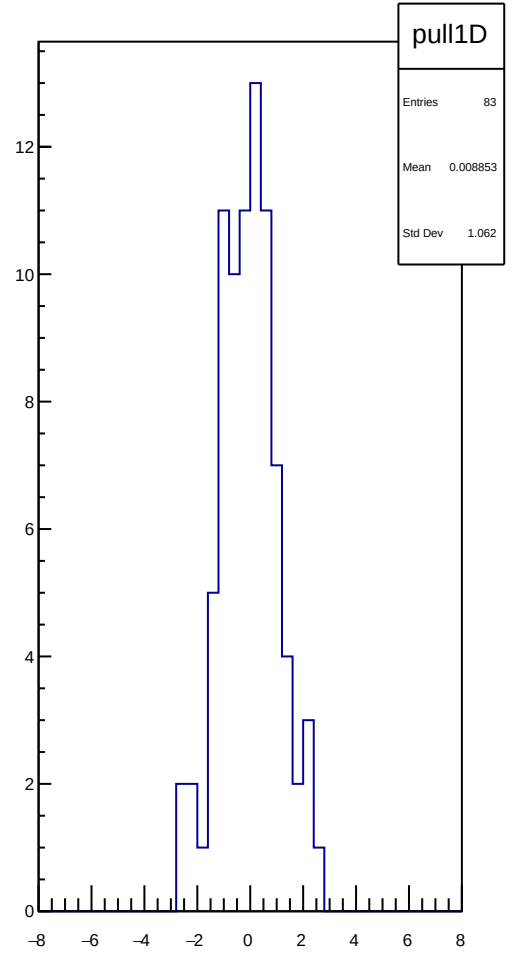

pull1D
Entries 83
Mean −0.1088
Std Dev 2.194

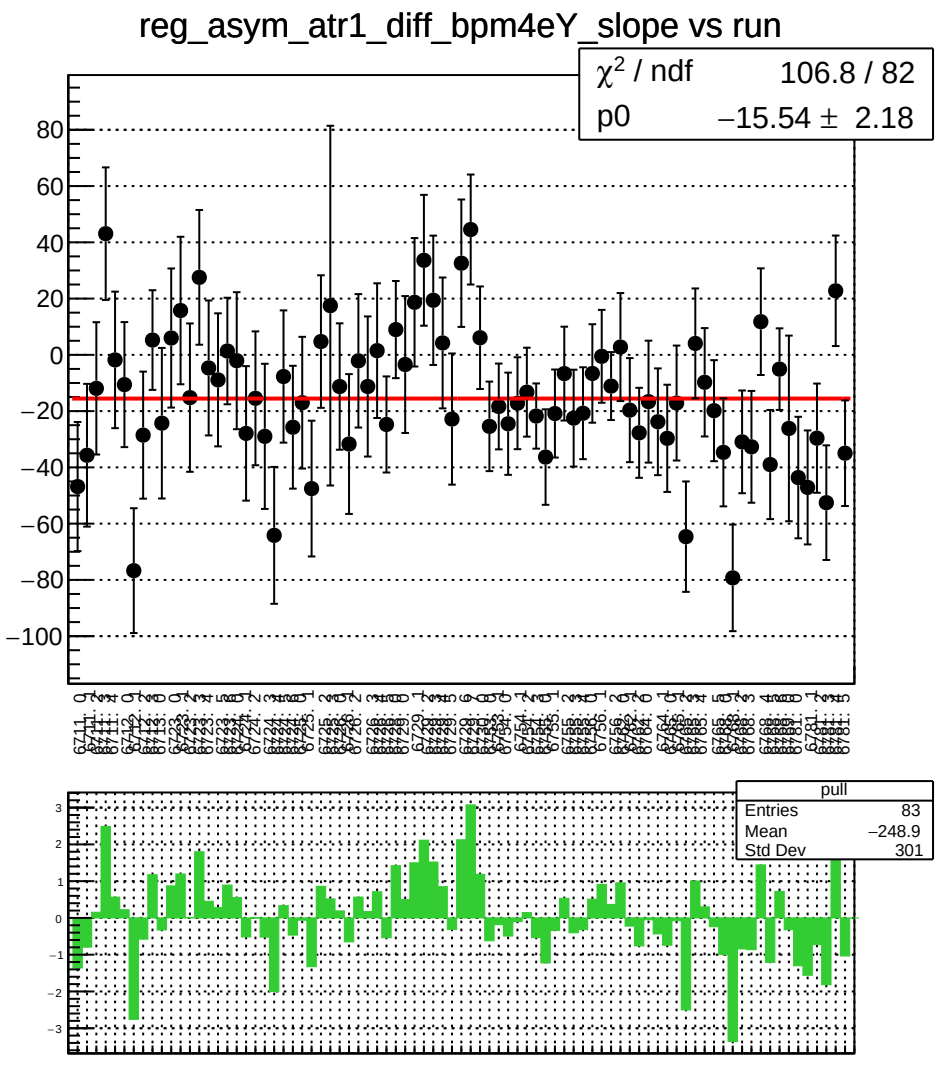

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 95.27 / 82
p0 −48.14 ± 2.897
50
0
−50
−100
−150
pull
Entries 83
Mean 65.84
Std Dev 74.99
2
1
0
−1
−2

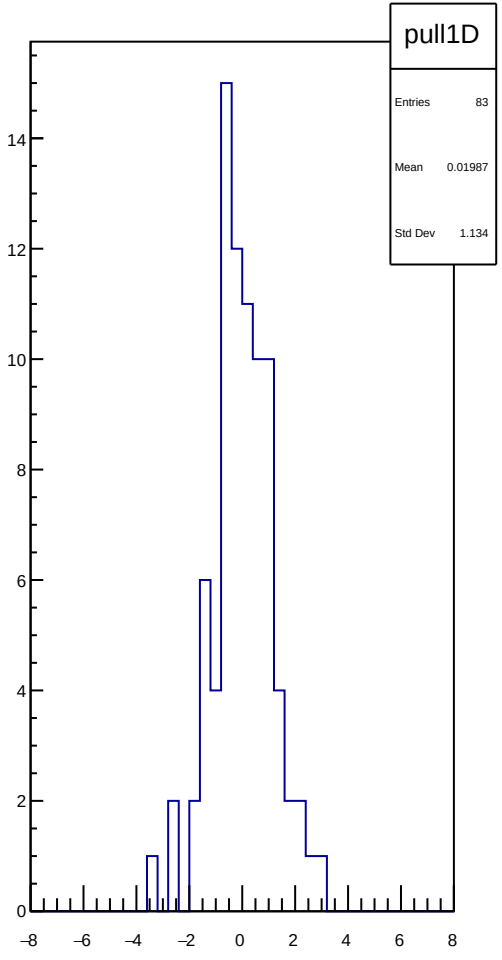

pull1D
Entries 83
Mean −0.01305
Std Dev 1.071
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

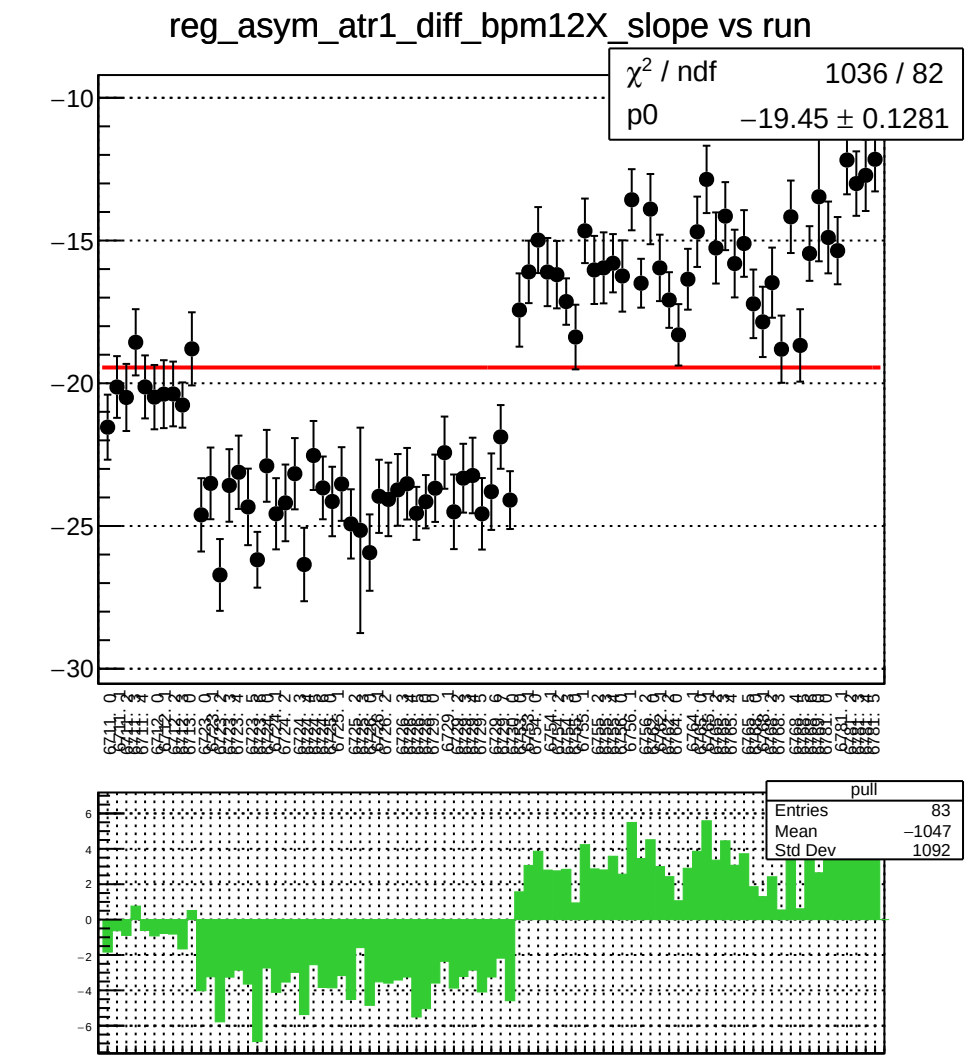

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 92.67 / 82
p0 8.361 ± 1.706
pull
Entries 83
Mean −210.8
Std Dev 263.5
pull1D
Entries 83
Mean −0.01414
Std Dev 1.057

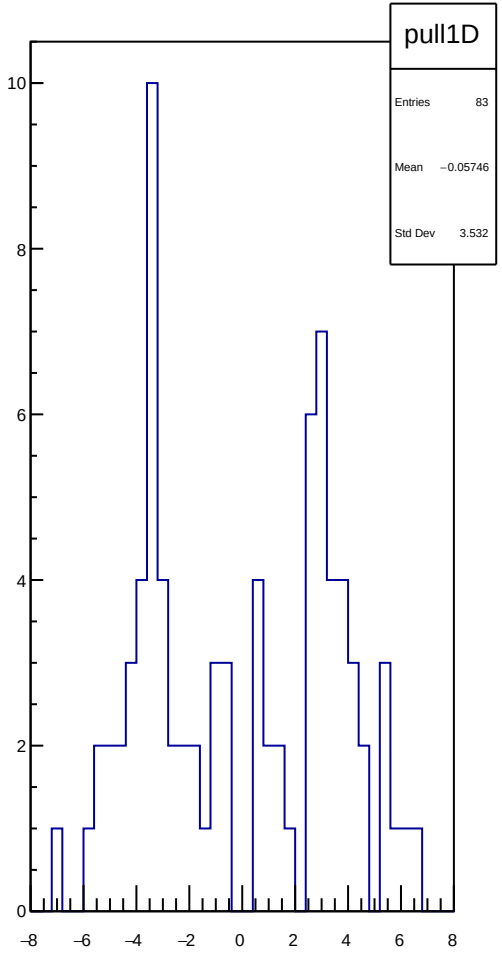

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 93.6 / 82
p0 −10.21± 2.772
100
50
0
−50
−100
pull
Entries 83
Mean −43.58
Std Dev 126.9
2
1
0
−1
−2

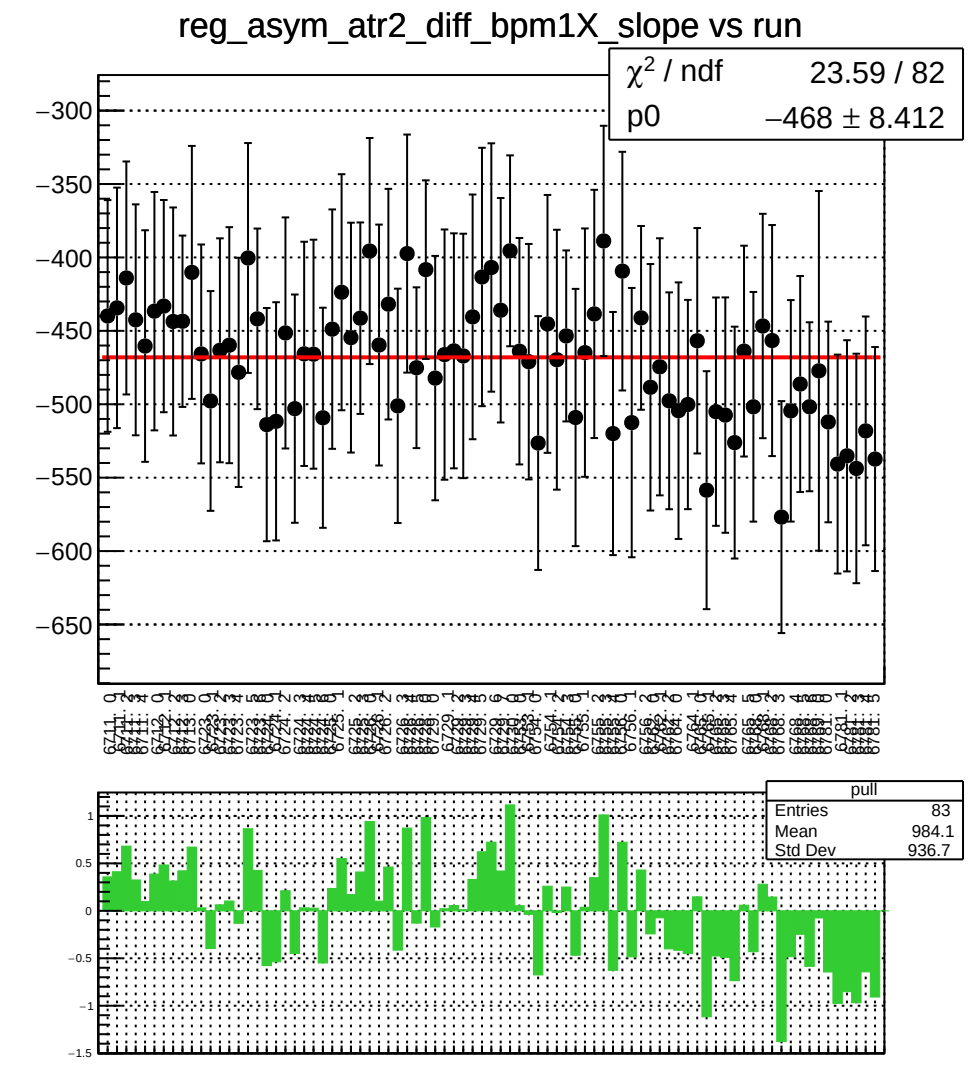

pull1D
Entries 83
Mean 0.008853
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

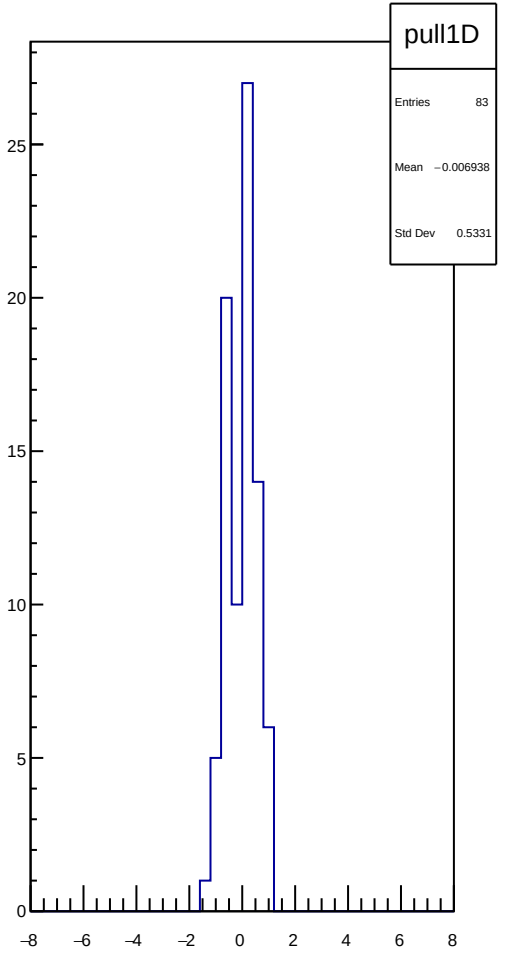

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 106.8 / 82
p0 −15.54 ± 2.18
pull
Entries 83
Mean −248.9
Std Dev 301

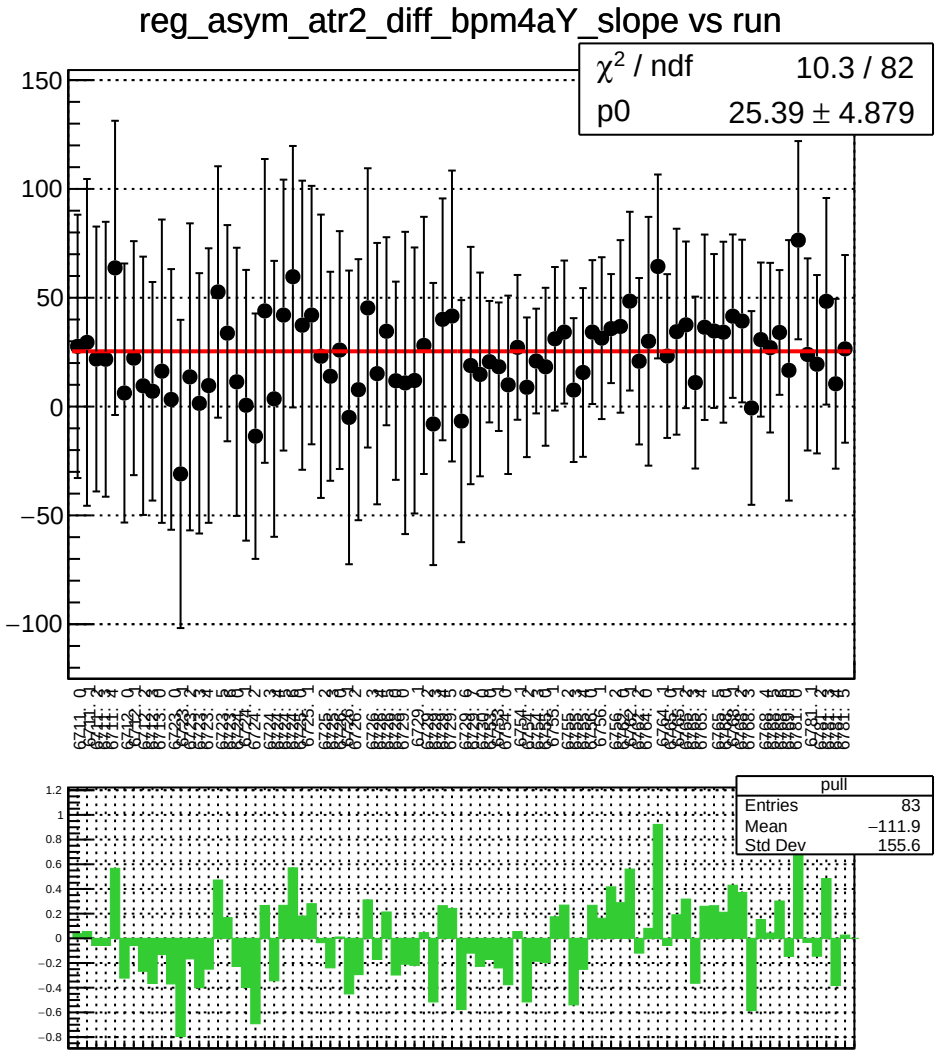

pull1D
Entries 83
Mean 0.01987
Std Dev 1.134

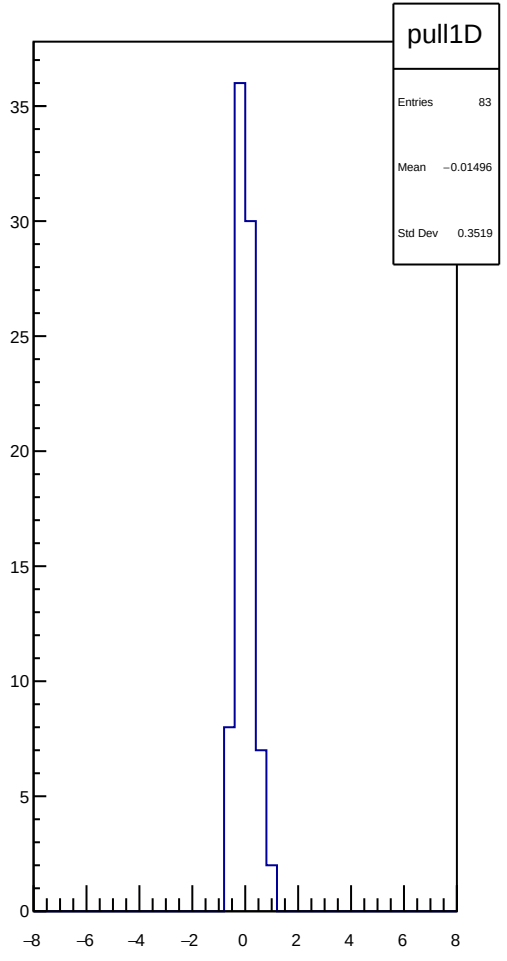

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 1036 / 82
p0 −19.45 ± 0.1281
pull
Entries 83
Mean −1047
Std Dev 1092

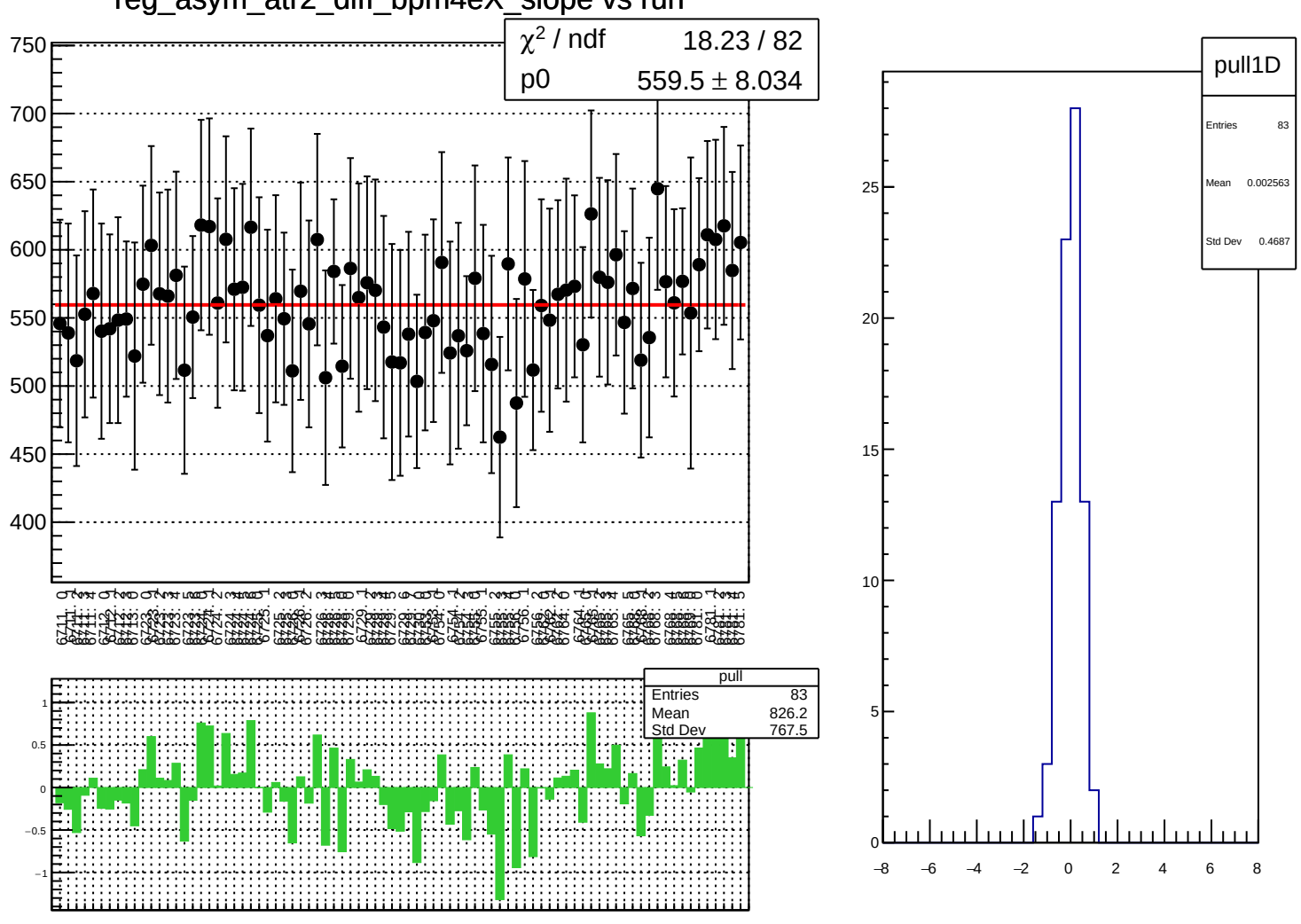

pull1D
Entries 83
Mean −0.05746
Std Dev 3.532

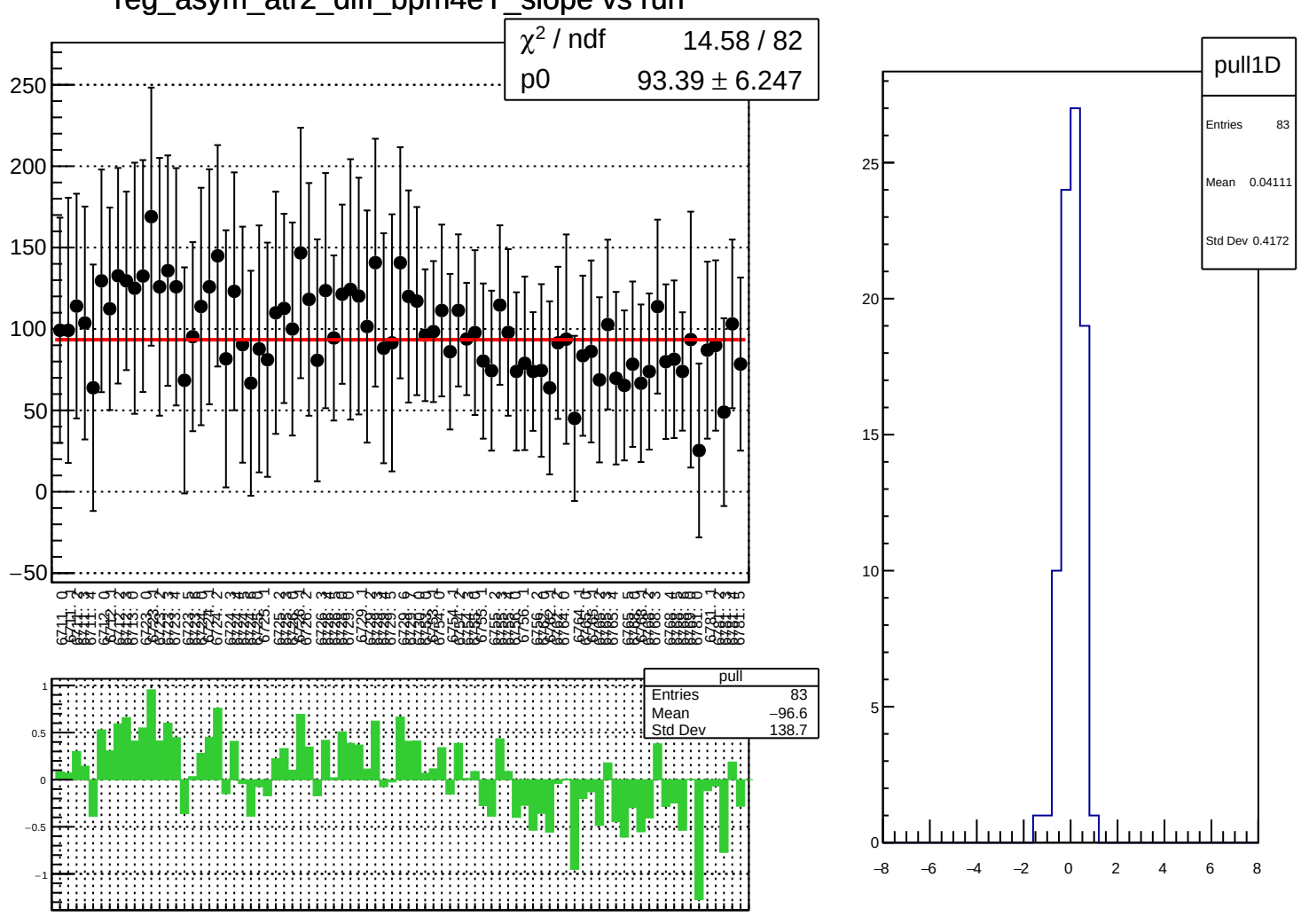

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 23.59 / 82
p0 −468 ± 8.412
pull
Entries 83
Mean 984.1
Std Dev 936.7

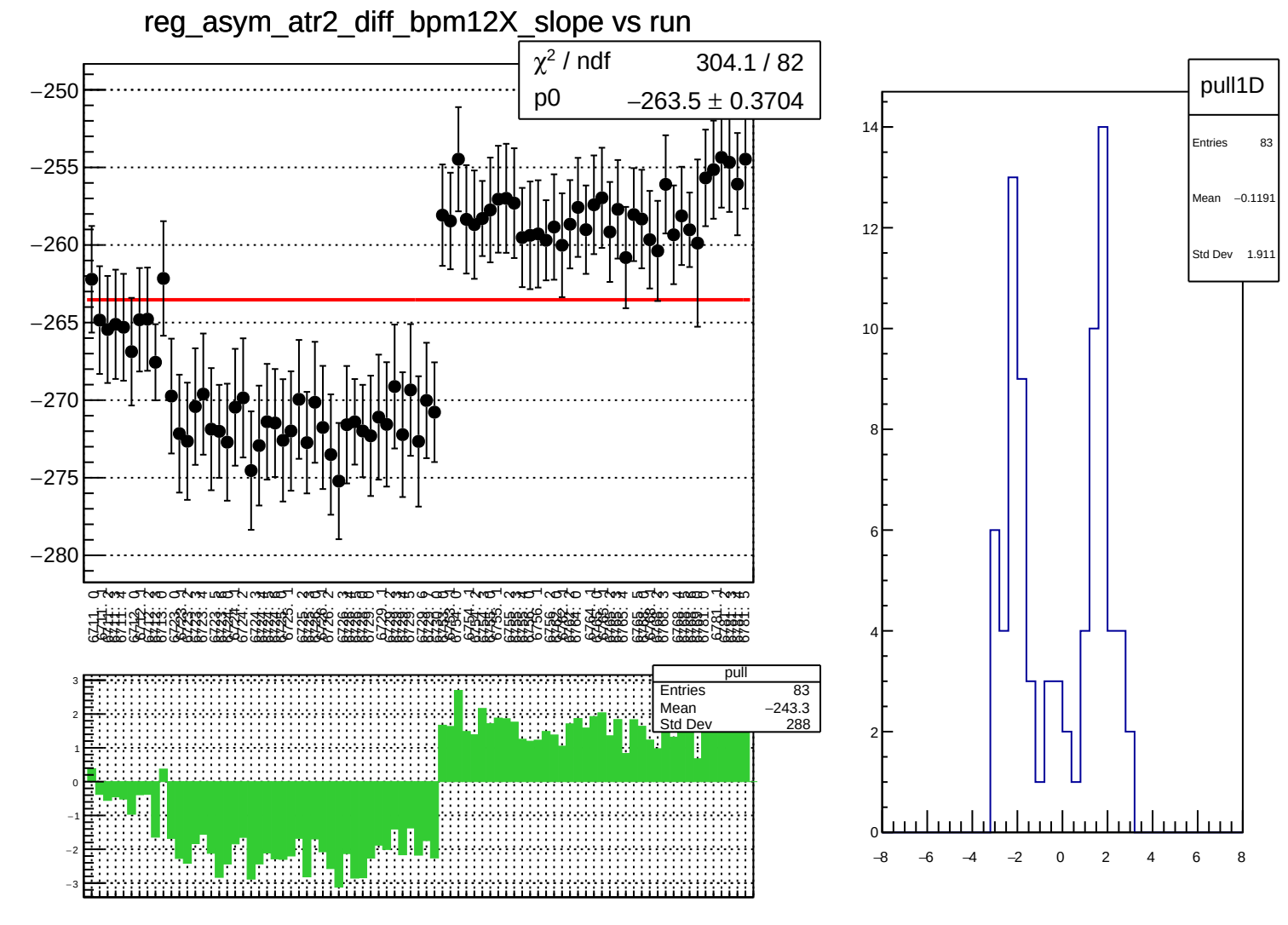

pull1D
Entries 83
Mean −0.006938
Std Dev 0.5331

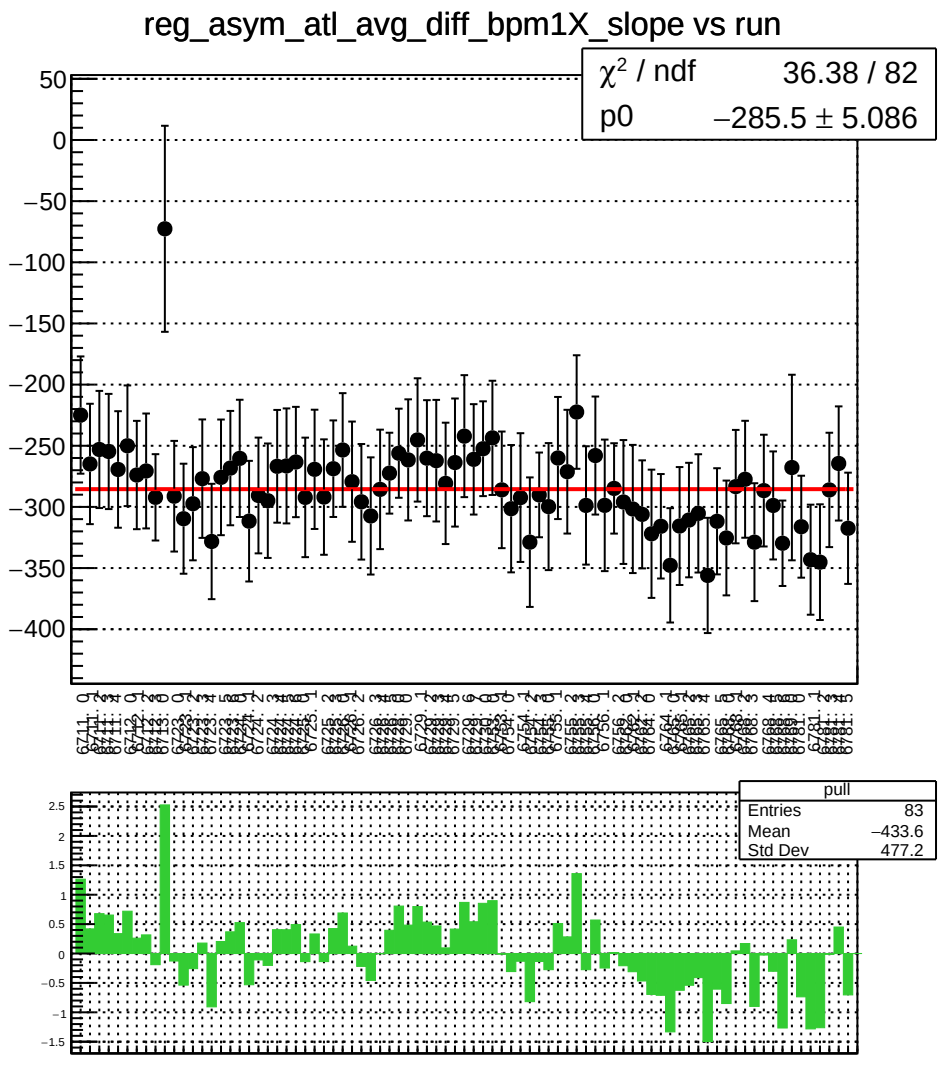

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 10.3 / 82
p0 25.39 ± 4.879
150
100
50
0
−50
−100
pull
Entries 83
Mean −111.9
Std Dev 155.6
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

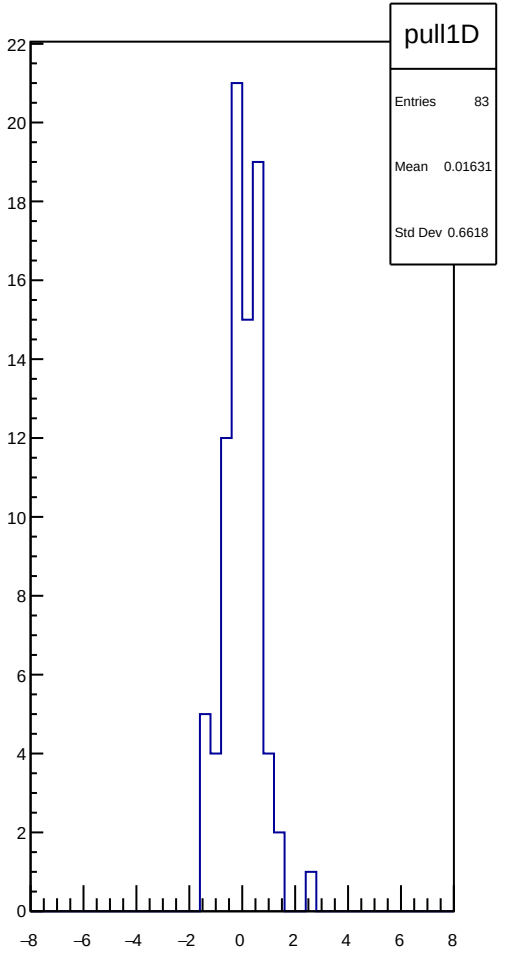

pull1D
Entries 83
Mean −0.01496
Std Dev 0.3519
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

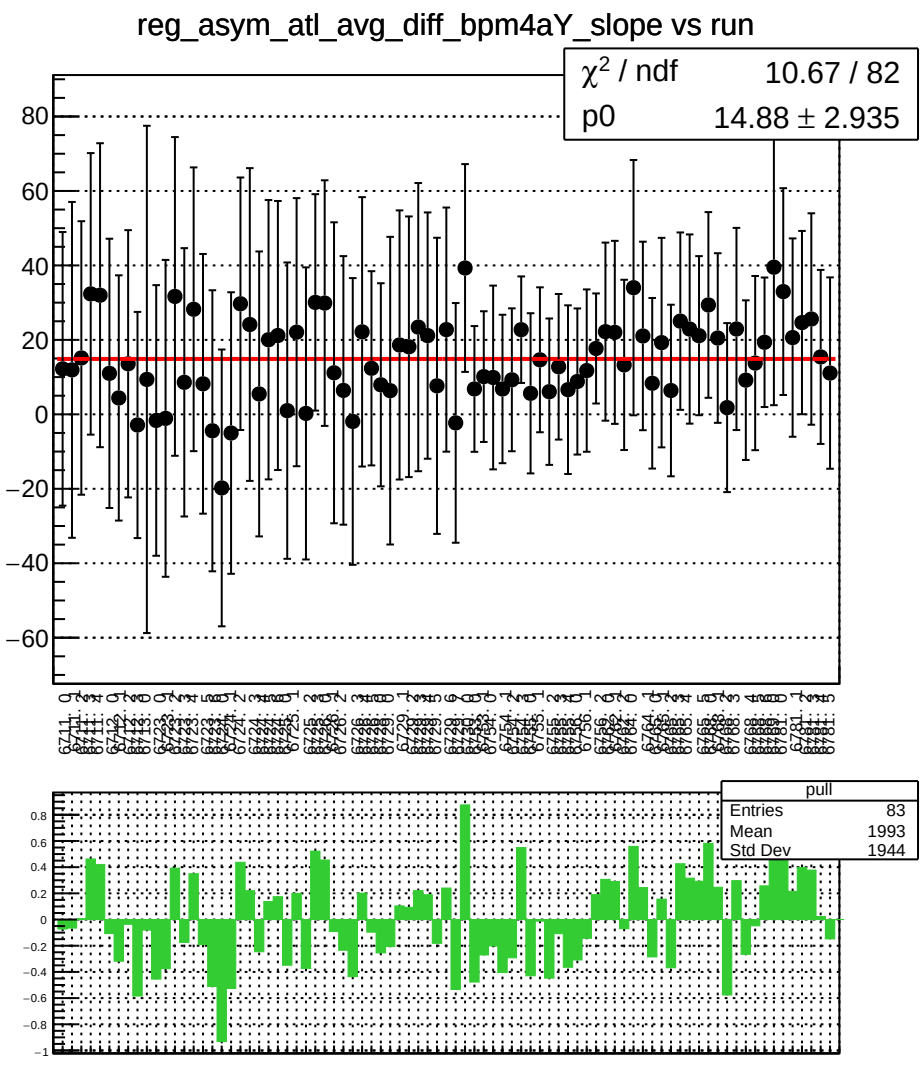

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 18.23 / 82
p0 559.5 ± 8.034
750
700
650
600
550
500
450
400
pull
Entries 83
Mean 826.2
Std Dev 767.5
1
0.5
0
−0.5
−1
pull1D
Entries 83
Mean 0.002563
Std Dev 0.4687
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

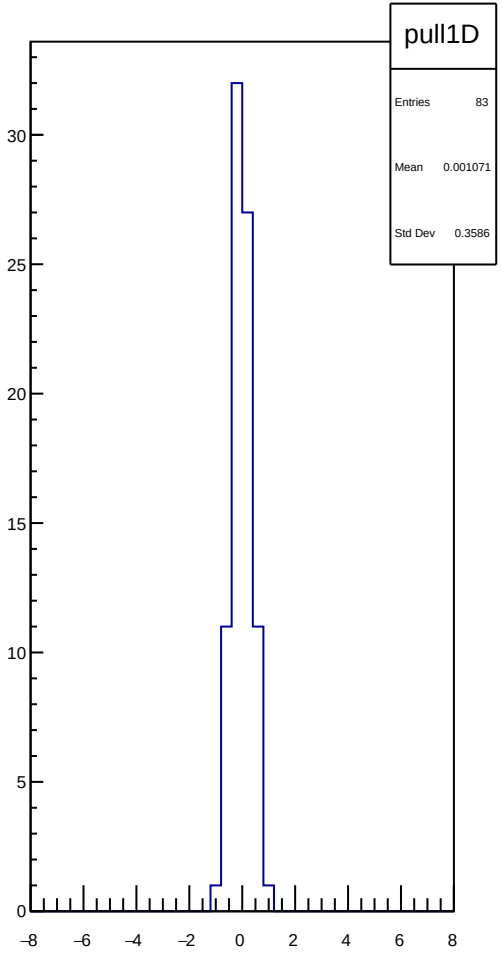

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 14.58 / 82
p0 93.39 ± 6.247
pull
Entries 83
Mean −96.6
Std Dev 138.7
pull1D
Entries 83
Mean 0.04111
Std Dev 0.4172

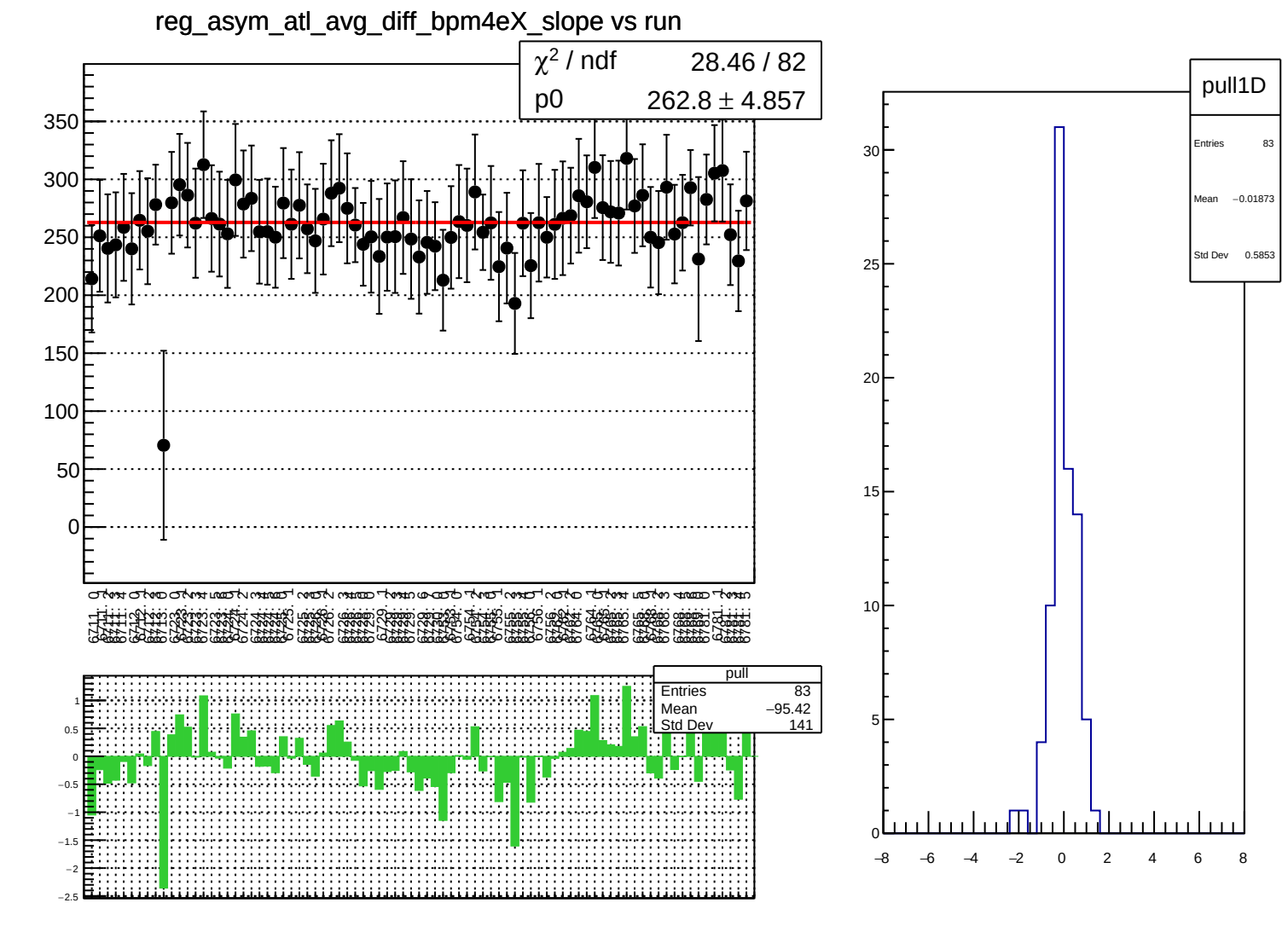

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 304.1 / 82
p0 −263.5 ± 0.3704
pull
Entries 83
Mean −243.3
Std Dev 288
pull1D
Entries 83
Mean −0.1191
Std Dev 1.911

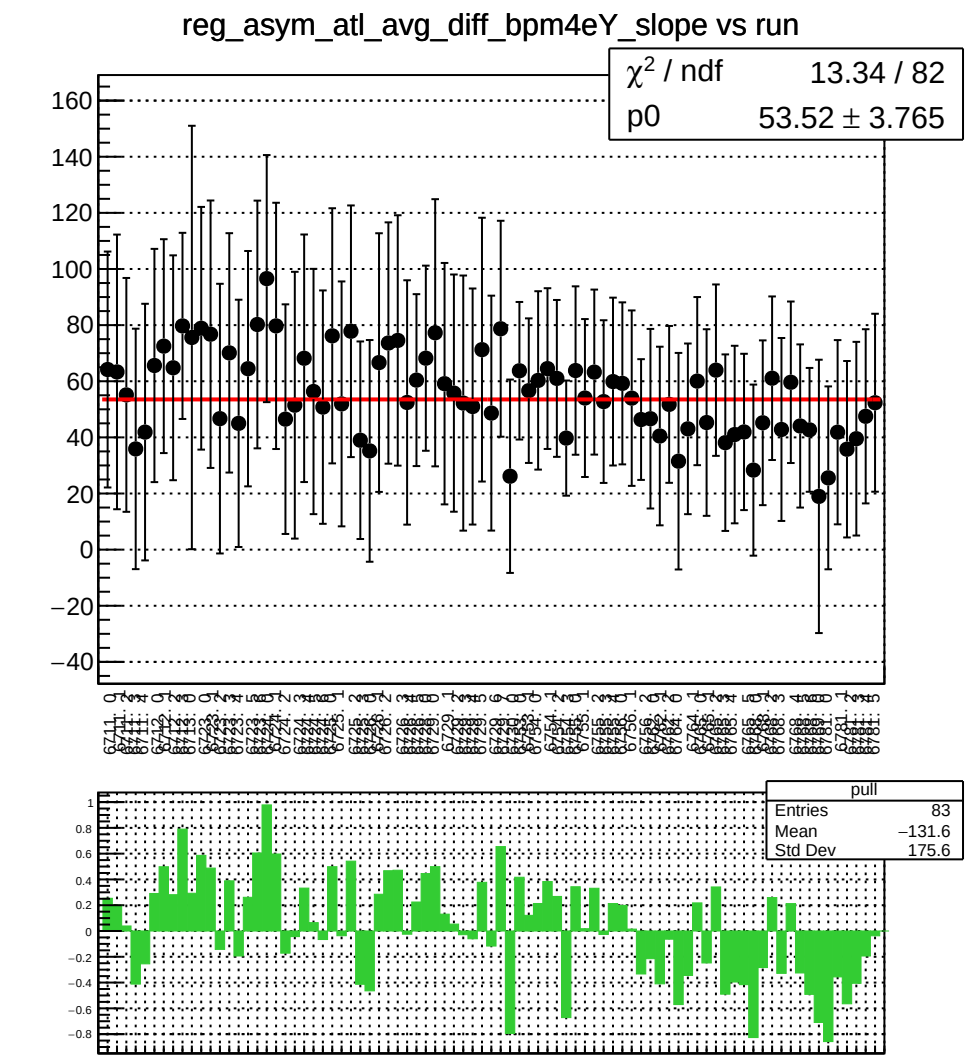

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 36.38 / 82
p0 −285.5 ± 5.086
pull
Entries 83
Mean −433.6
Std Dev 477.2

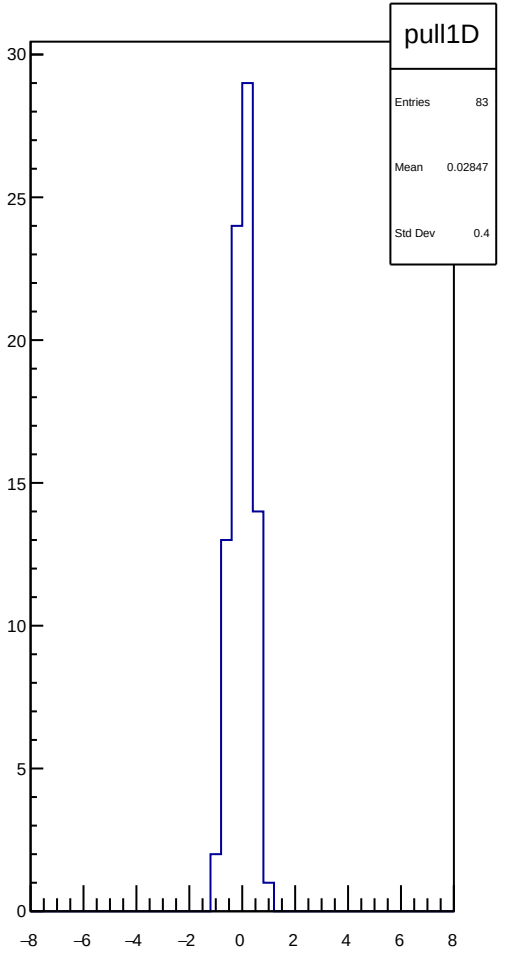

pull1D
Entries 83
Mean 0.01631
Std Dev 0.6618

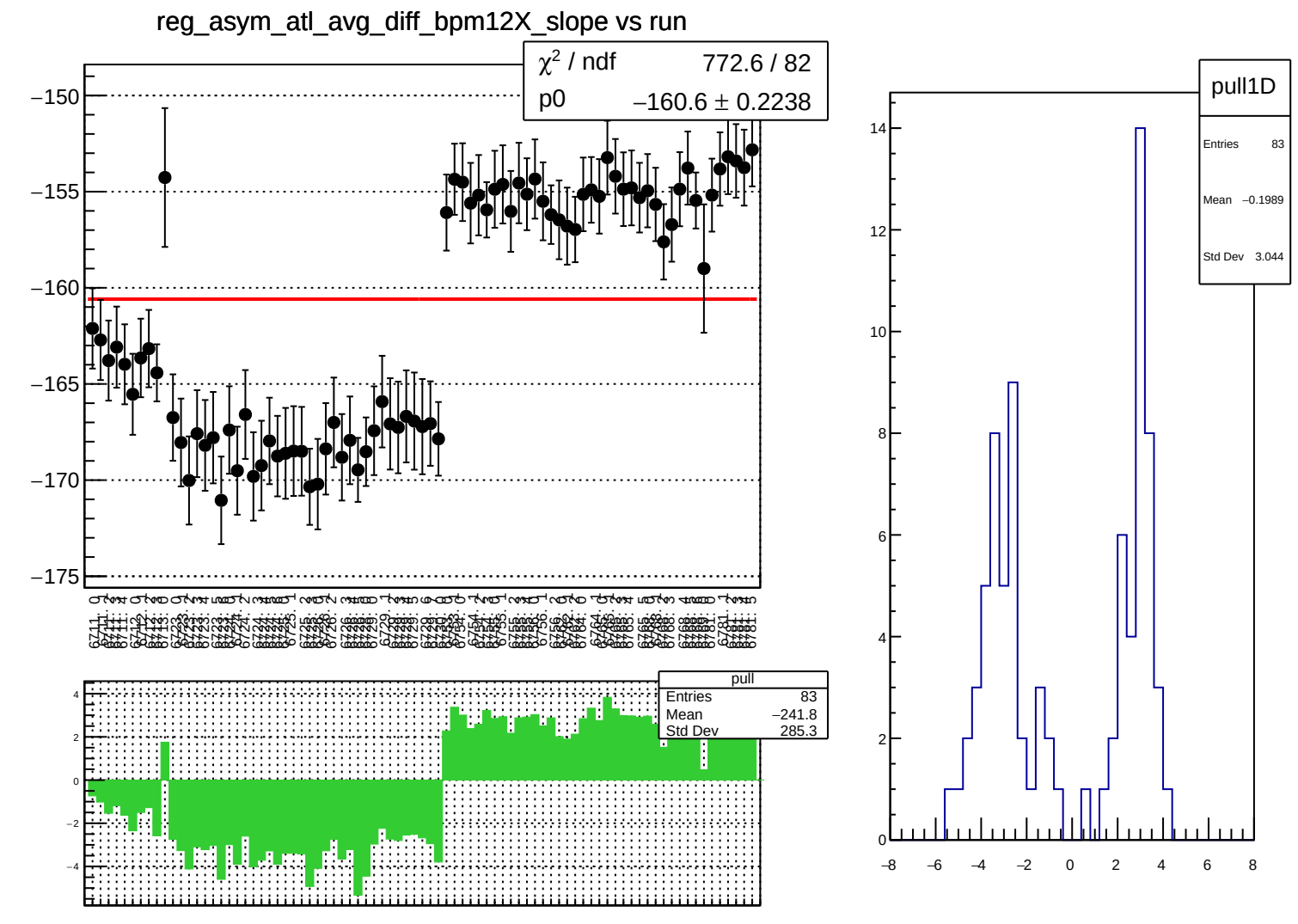

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.67 / 82
p0 14.88 ± 2.935
pull
Entries 83
Mean 1993
Std Dev 1944

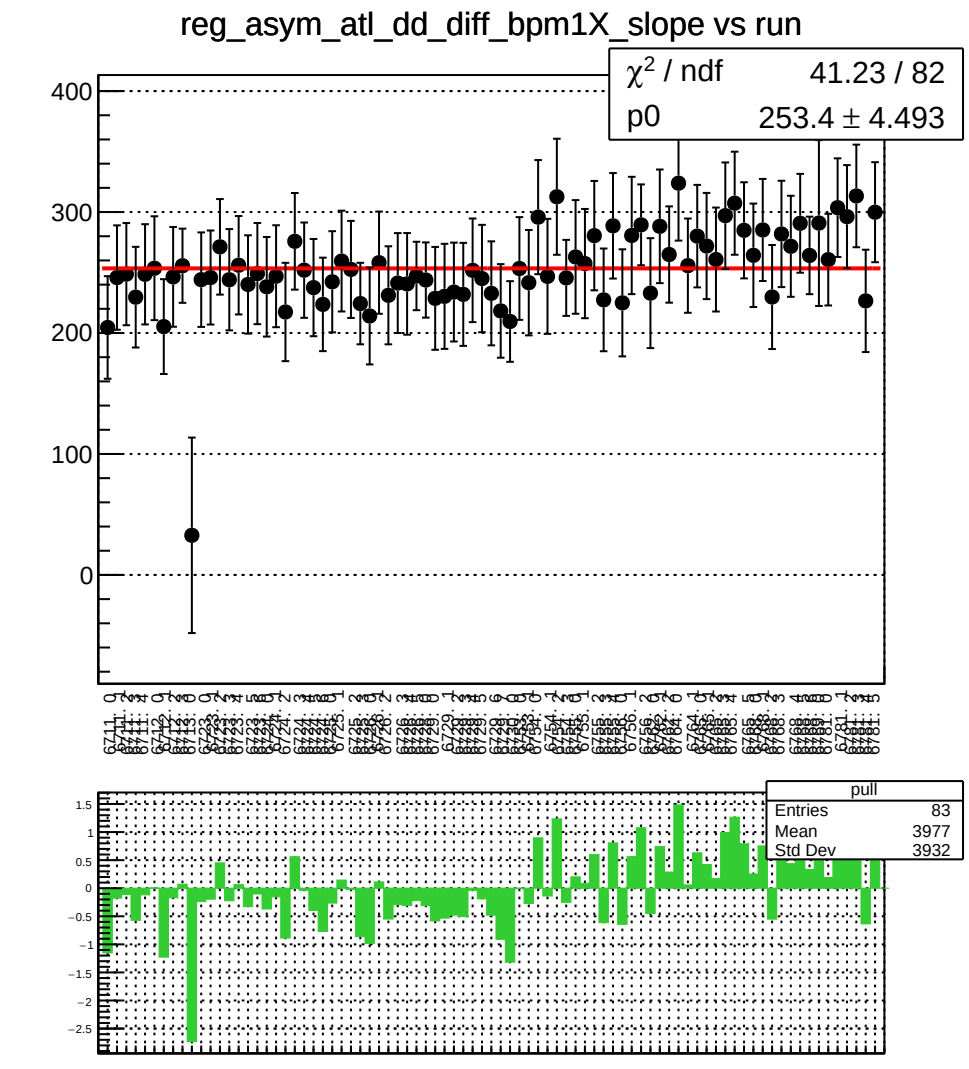

pull1D
Entries 83
Mean 0.001071
Std Dev 0.3586

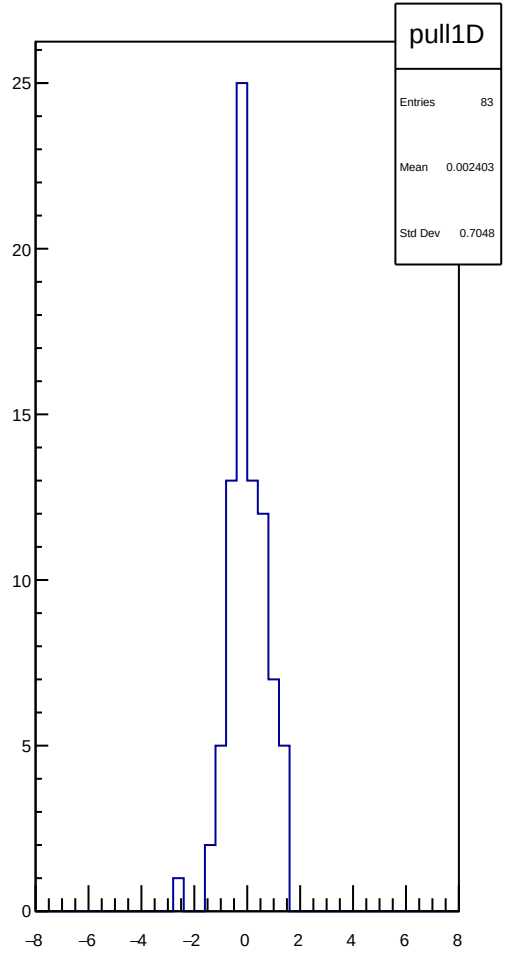

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.46 / 82
p0 262.8 ± 4.857
pull
Entries 83
Mean −95.42
Std Dev 141
pull1D
Entries 83
Mean −0.01873
Std Dev 0.5853

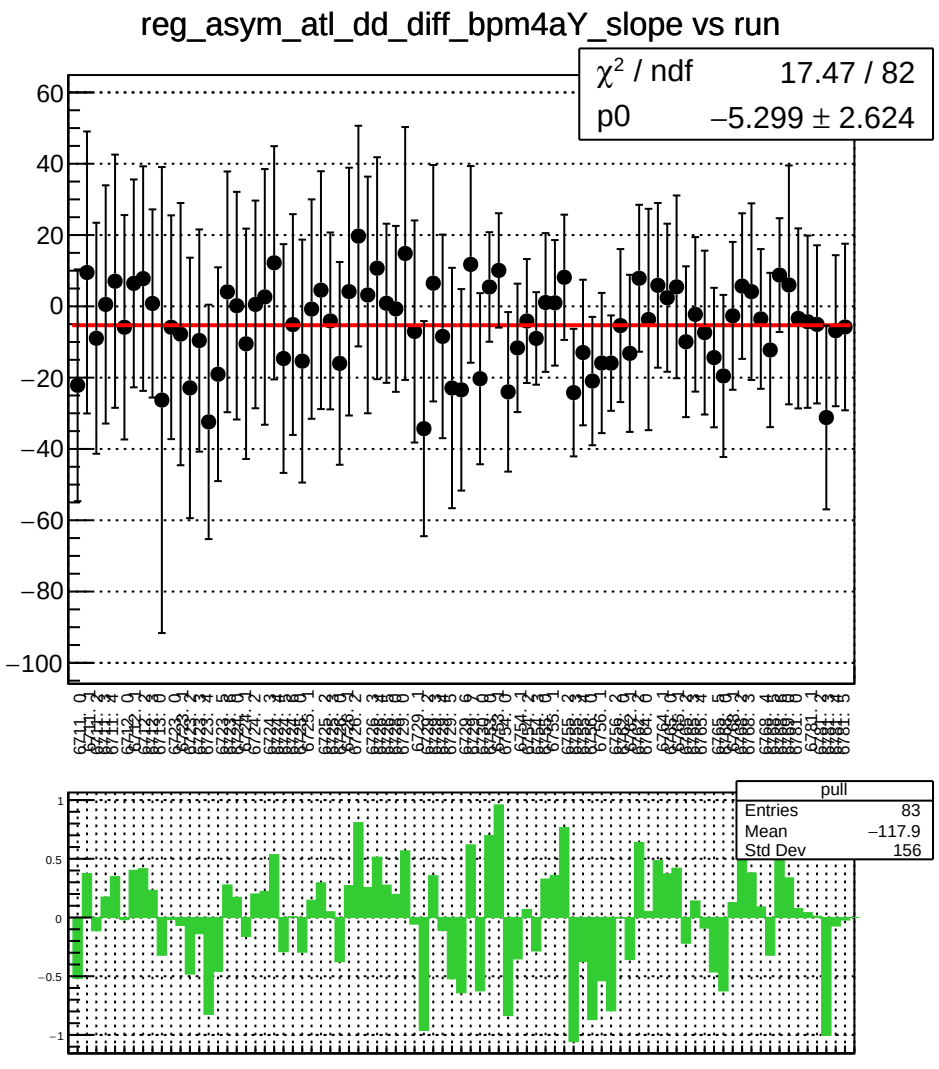

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.34 / 82
p0 53.52 ± 3.765
pull
Entries 83
Mean −131.6
Std Dev 175.6

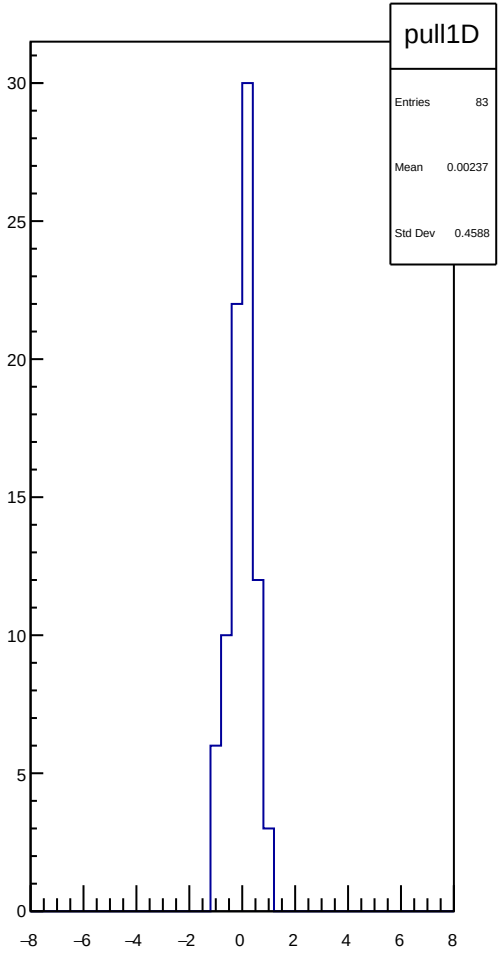

pull1D
Entries 83
Mean 0.02847
Std Dev 0.4

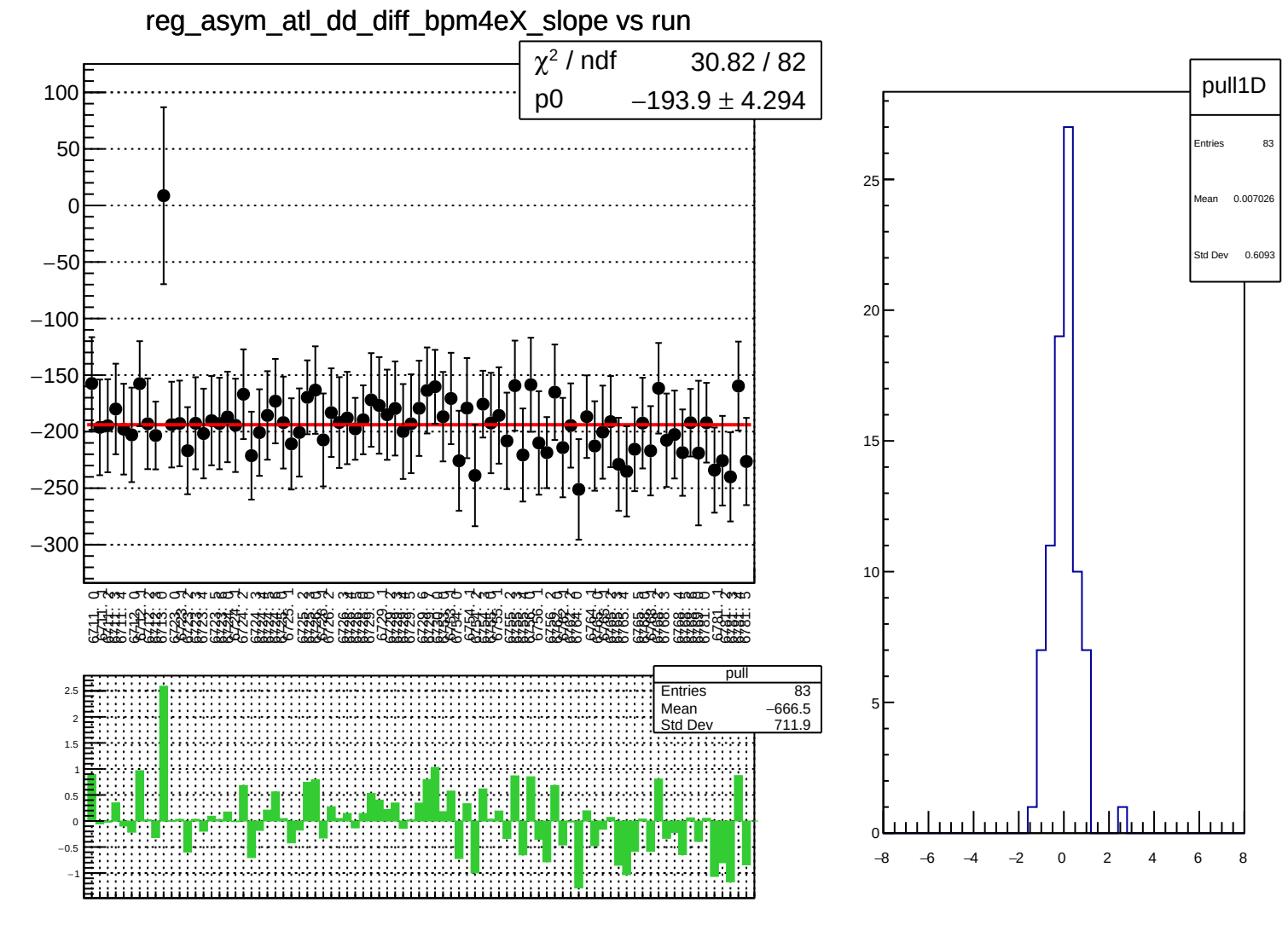

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 772.6 / 82
p0 −160.6 ± 0.2238
−150
−155
−160
−165
−170
−175
pull
Entries 83
Mean −241.8
Std Dev 285.3
pull1D
Entries 83
Mean −0.1989
Std Dev 3.044

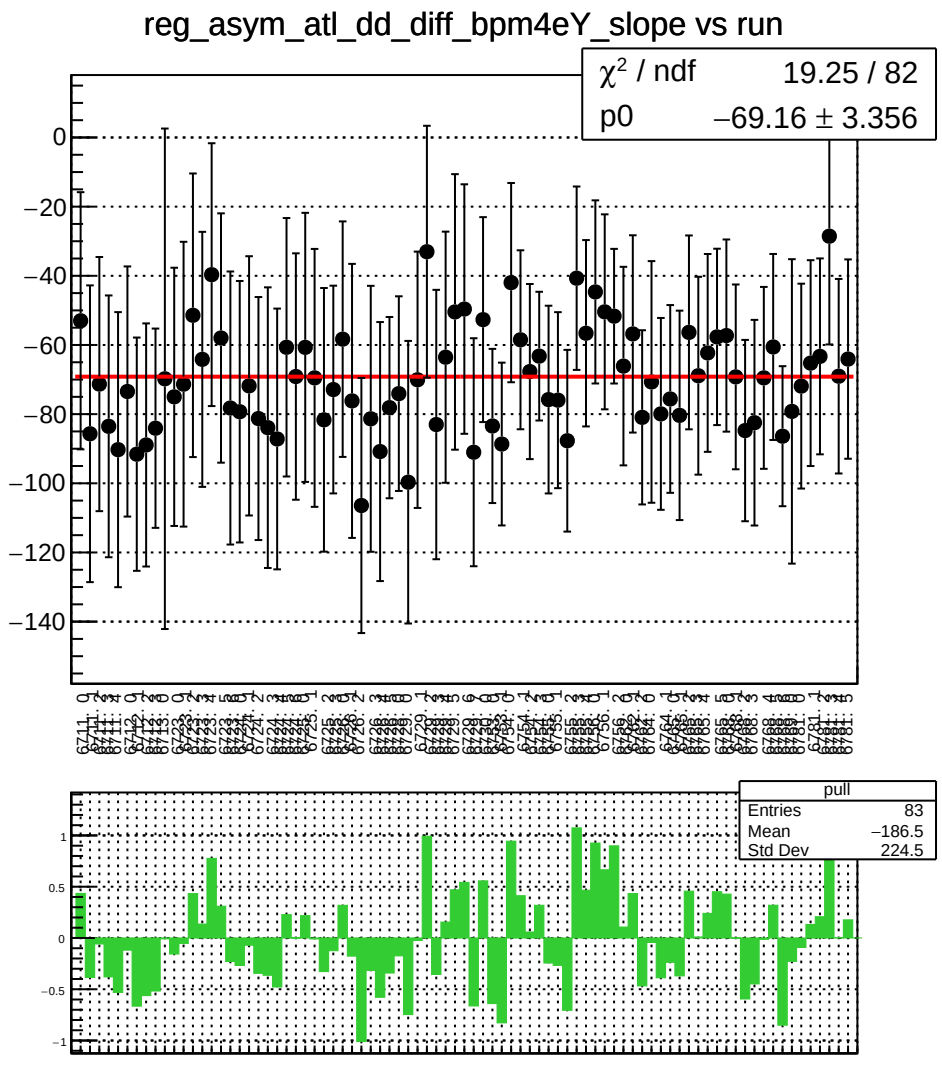

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 41.23 / 82
p0 253.4 ± 4.493
400
300
200
100
0
pull
Entries 83
Mean 3977
Std Dev 3932
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

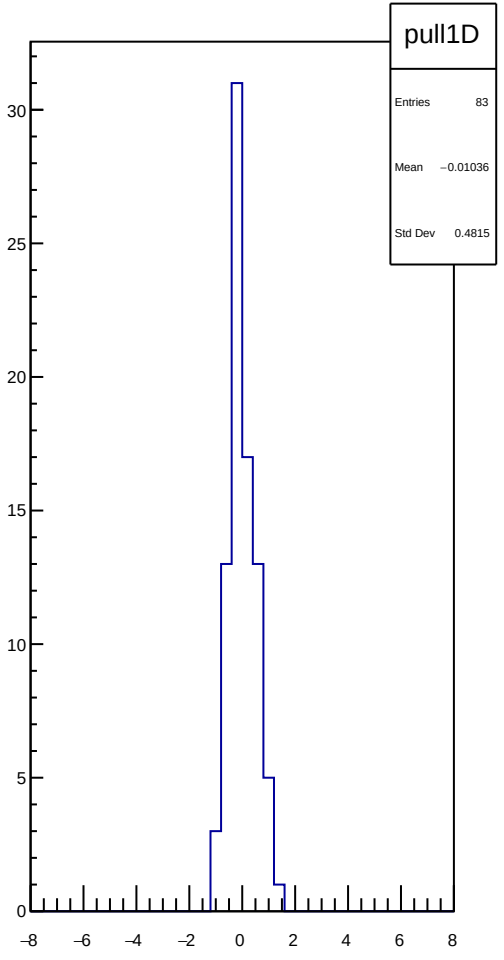

pull1D
Entries 83
Mean 0.002403
Std Dev 0.7048
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

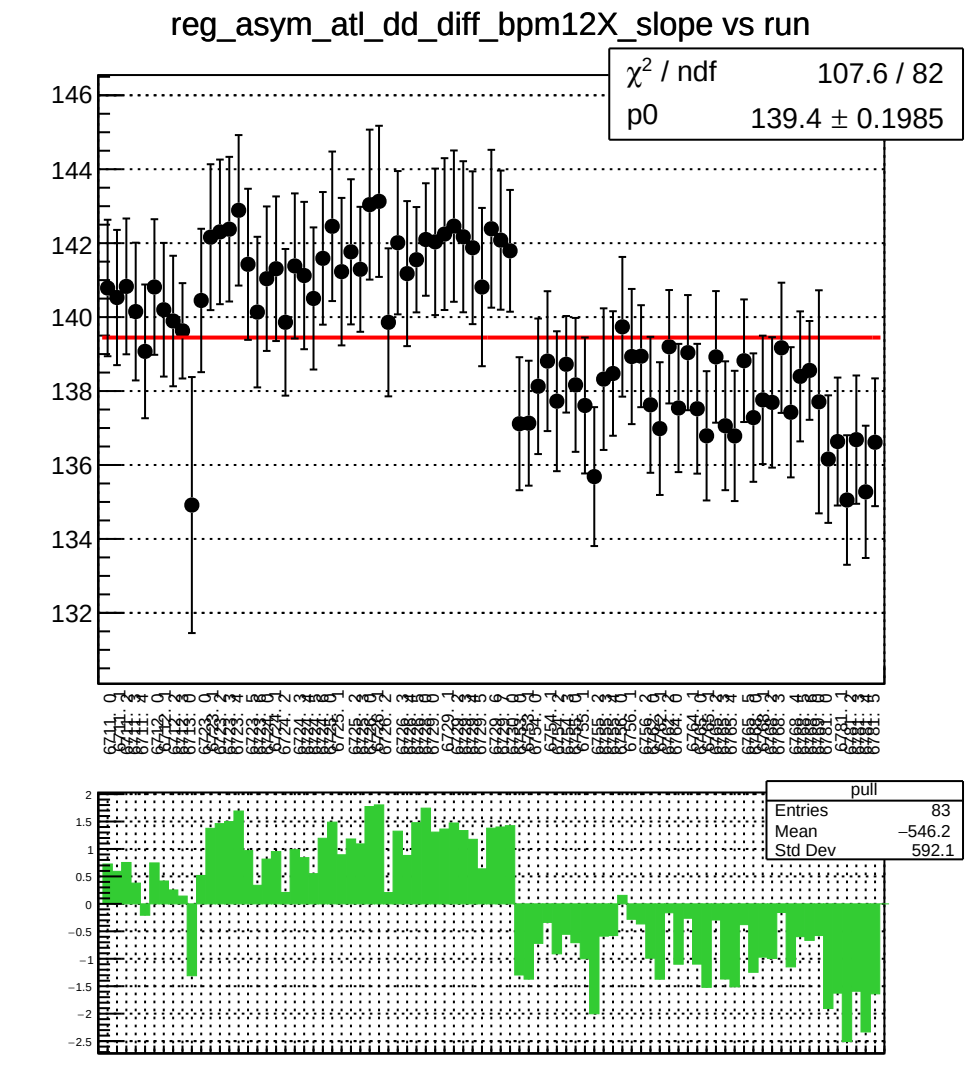

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.47 / 82
p0 −5.299 ± 2.624
pull
Entries 83
Mean −117.9
Std Dev 156

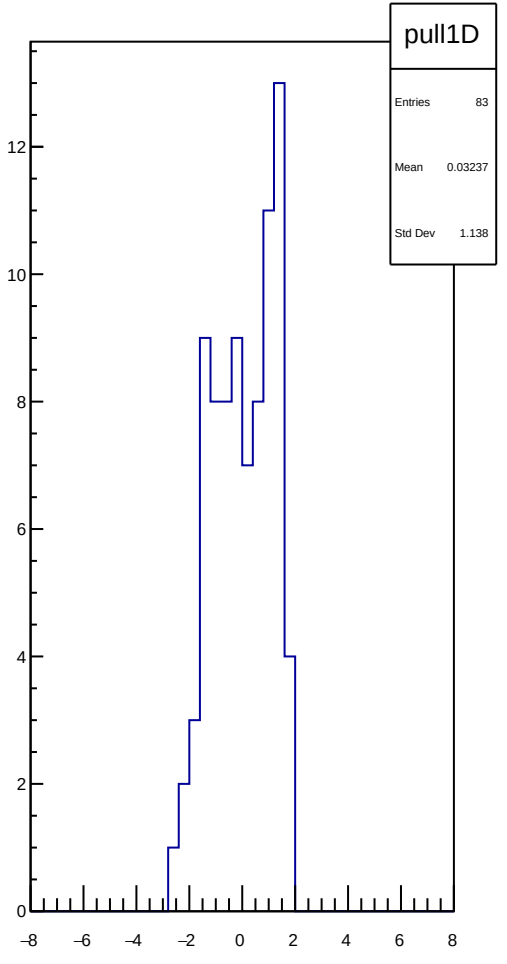

pull1D
Entries 83
Mean 0.00237
Std Dev 0.4588

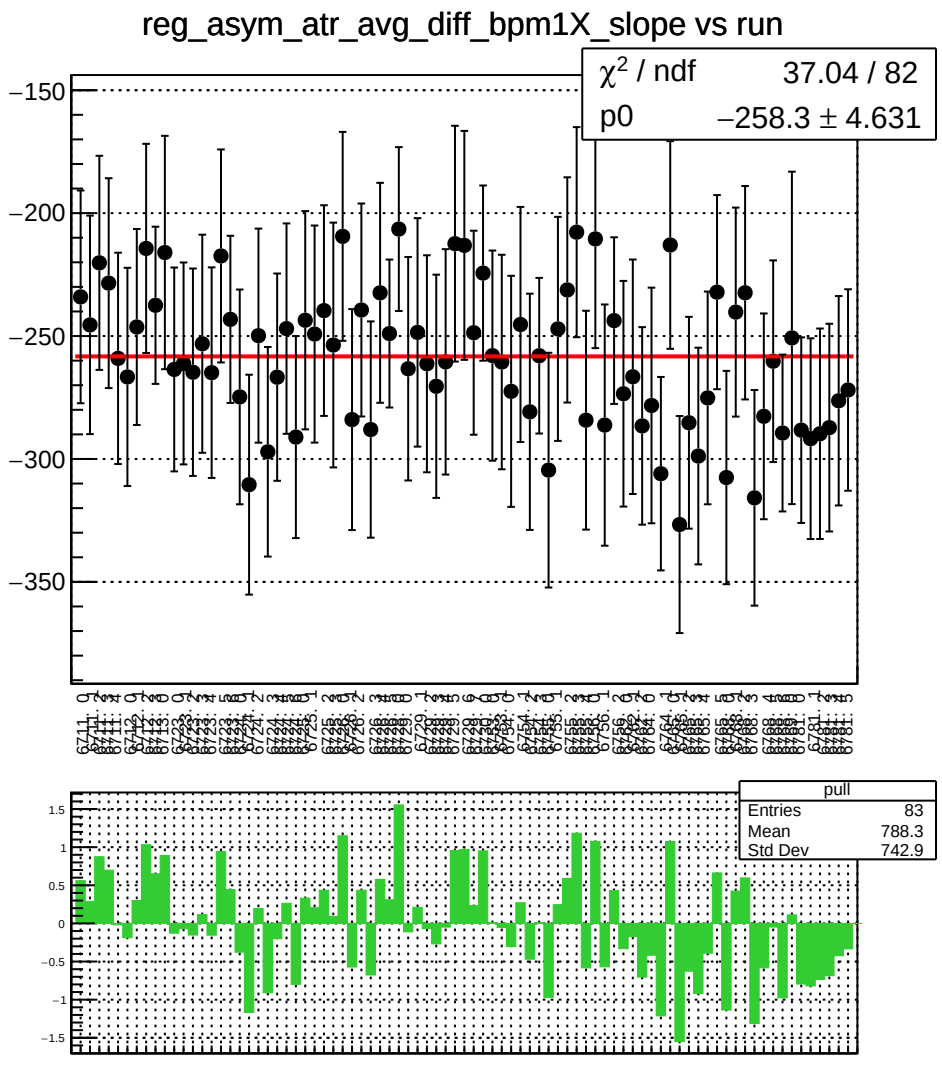

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.82 / 82
p0 −193.9 ± 4.294
pull
Entries 83
Mean −666.5
Std Dev 711.9
pull1D
Entries 83
Mean 0.007026
Std Dev 0.6093

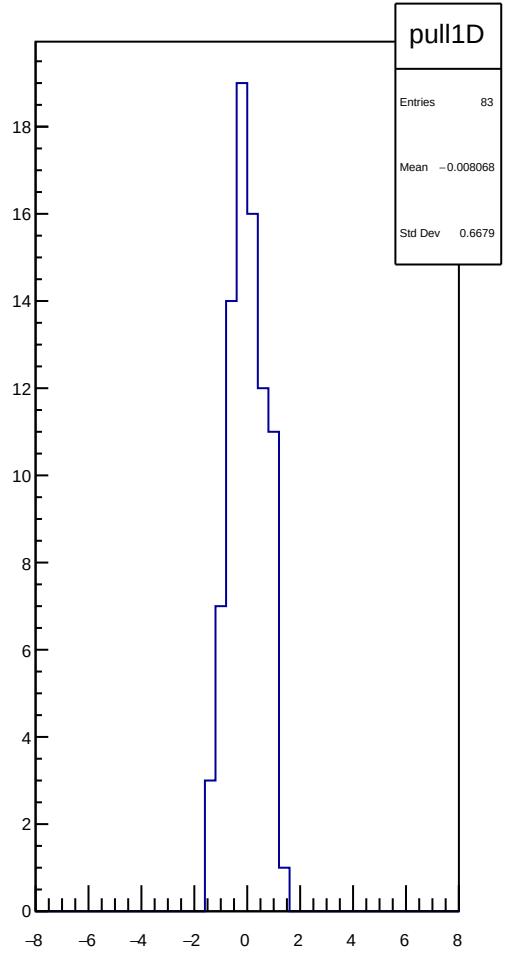

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.25 / 82
p0 −69.16 ± 3.356
pull
Entries 83
Mean −186.5
Std Dev 224.5

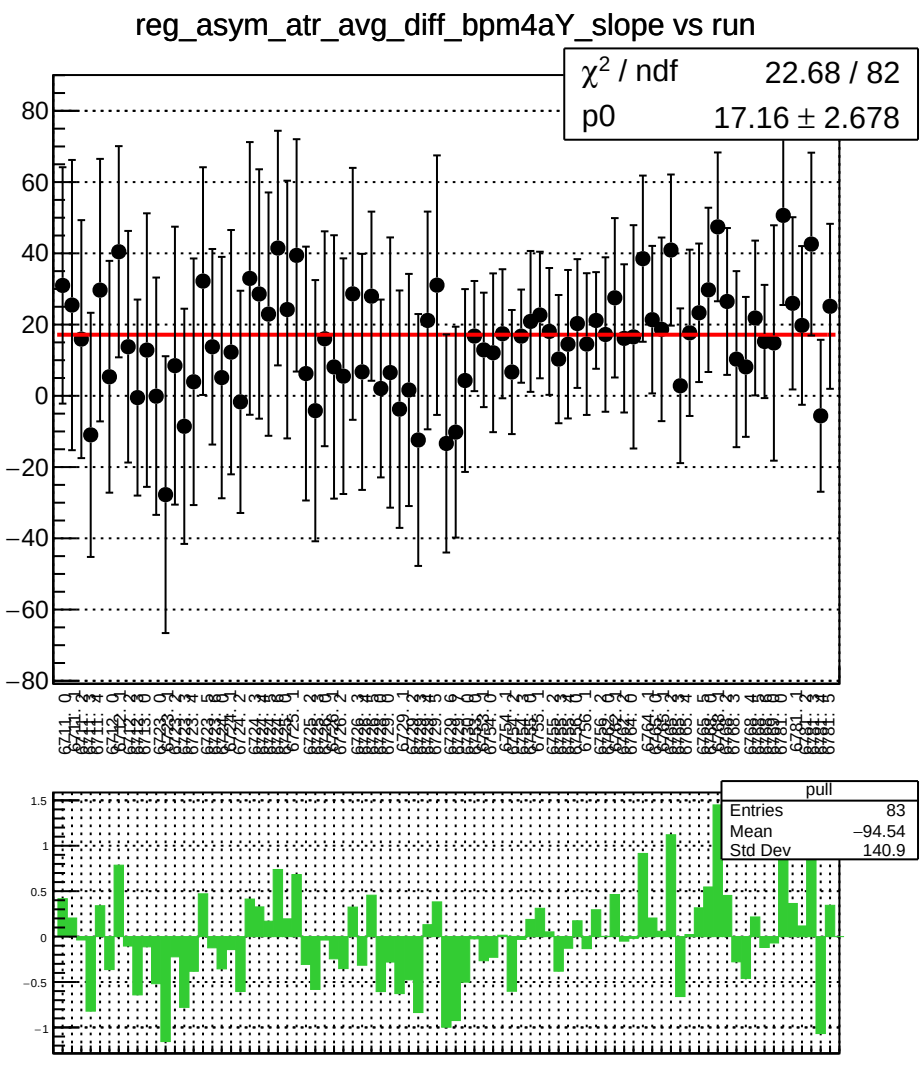

pull1D
Entries 83
Mean −0.01036
Std Dev 0.4815

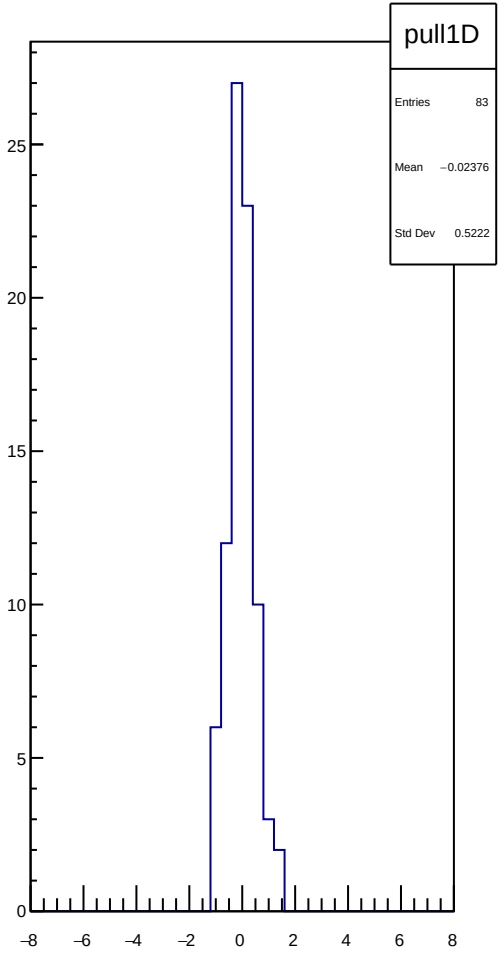

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 107.6 / 82
p0 139.4 ± 0.1985
pull
Entries 83
Mean −546.2
Std Dev 592.1

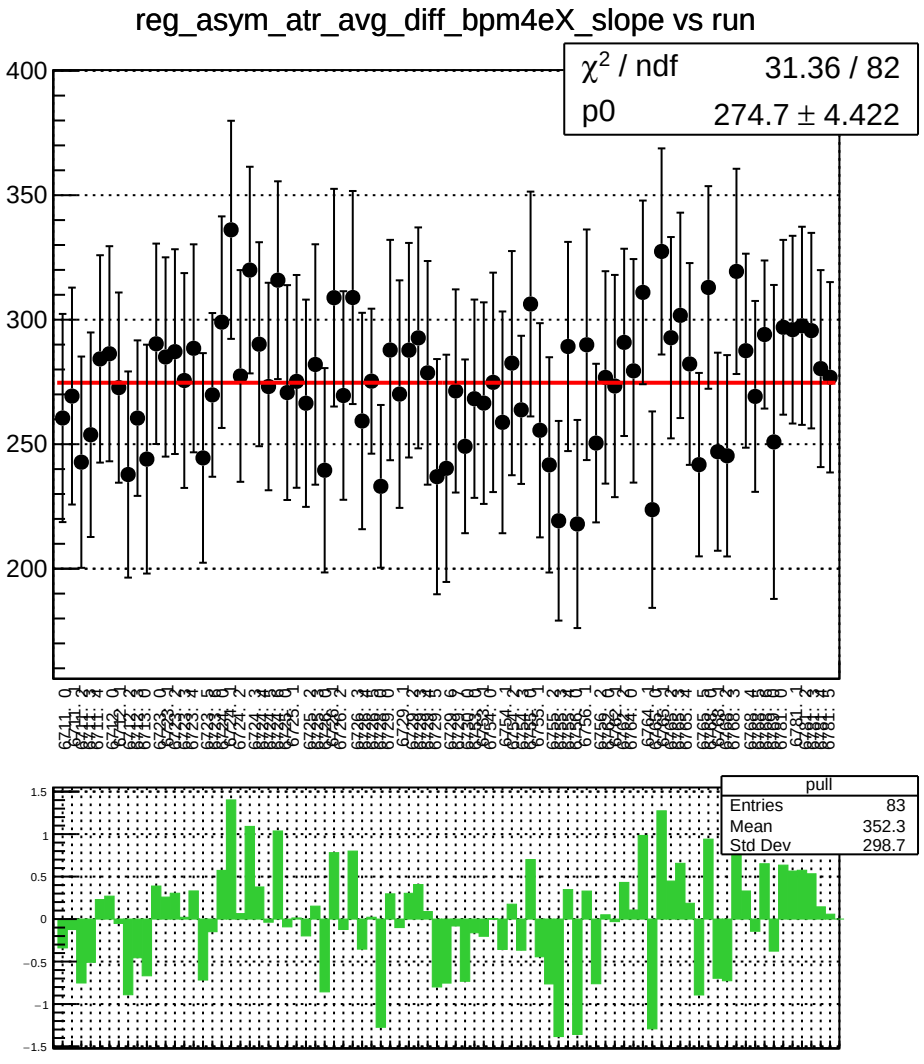

pull1D
Entries 83
Mean 0.03237
Std Dev 1.138

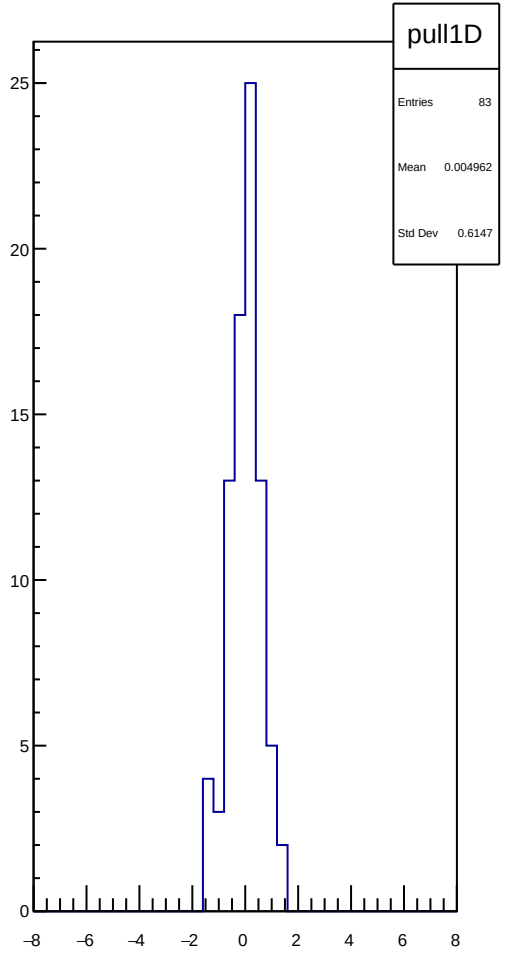

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ^2 / ndf 37.04 / 82
p0 −258.3 ± 4.631
−150
−200
−250
−300
−350
pull
Entries 83
Mean 788.3
Std Dev 742.9
1.5
1
0.5
0
−0.5
−1
−1.5

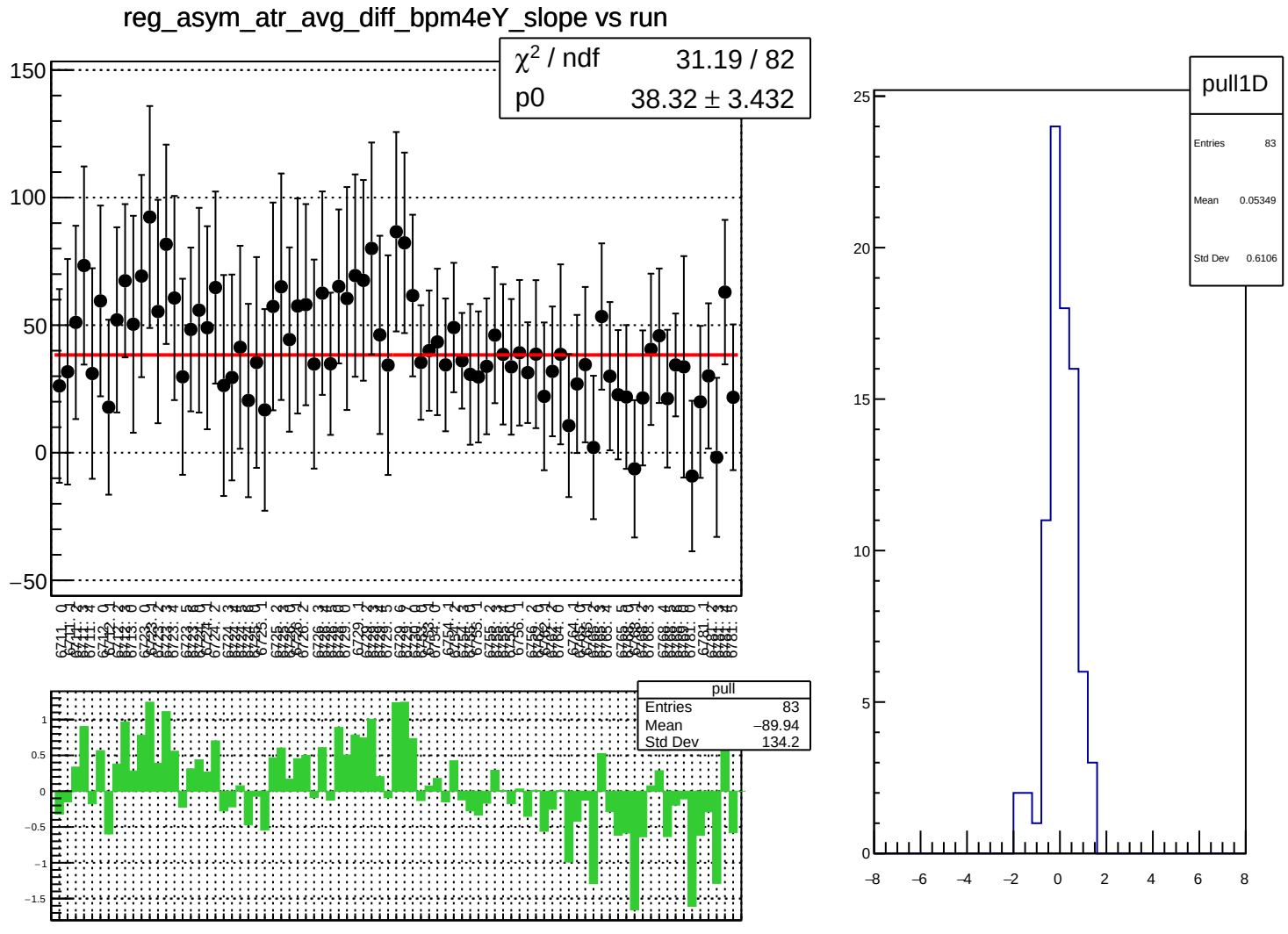

pull1D
Entries 83
Mean −0.008068
Std Dev 0.6679
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

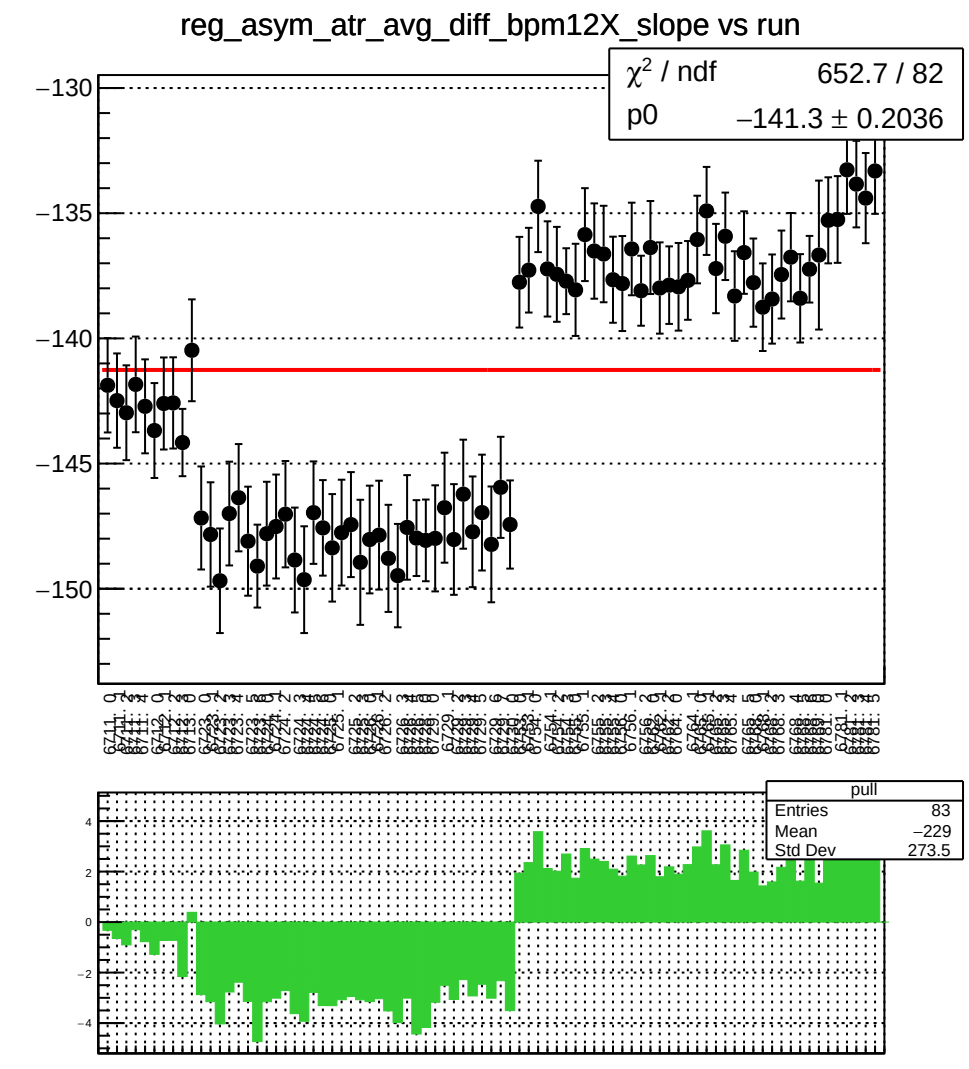

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.68 / 82
p0 17.16 ± 2.678
pull
Entries 83
Mean −94.54
Std Dev 140.9

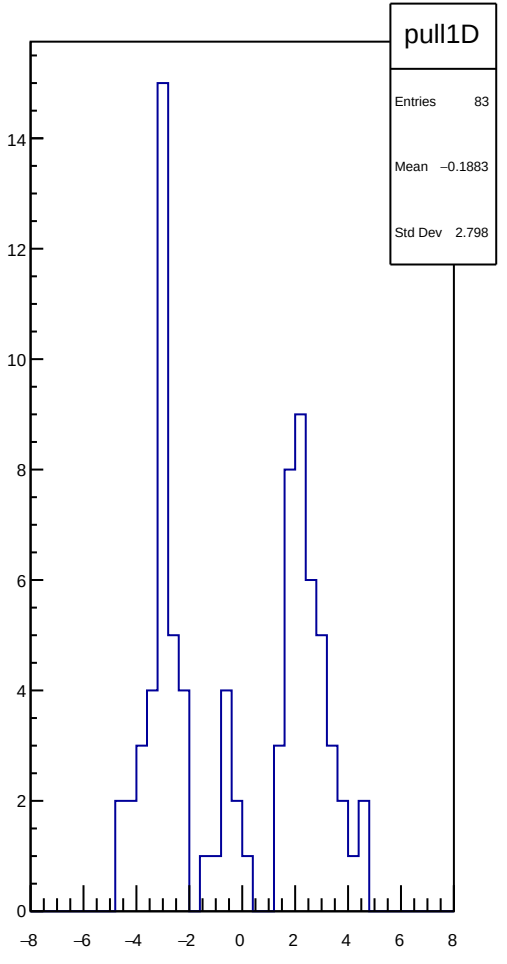

pull1D
Entries 83
Mean −0.02376
Std Dev 0.5222

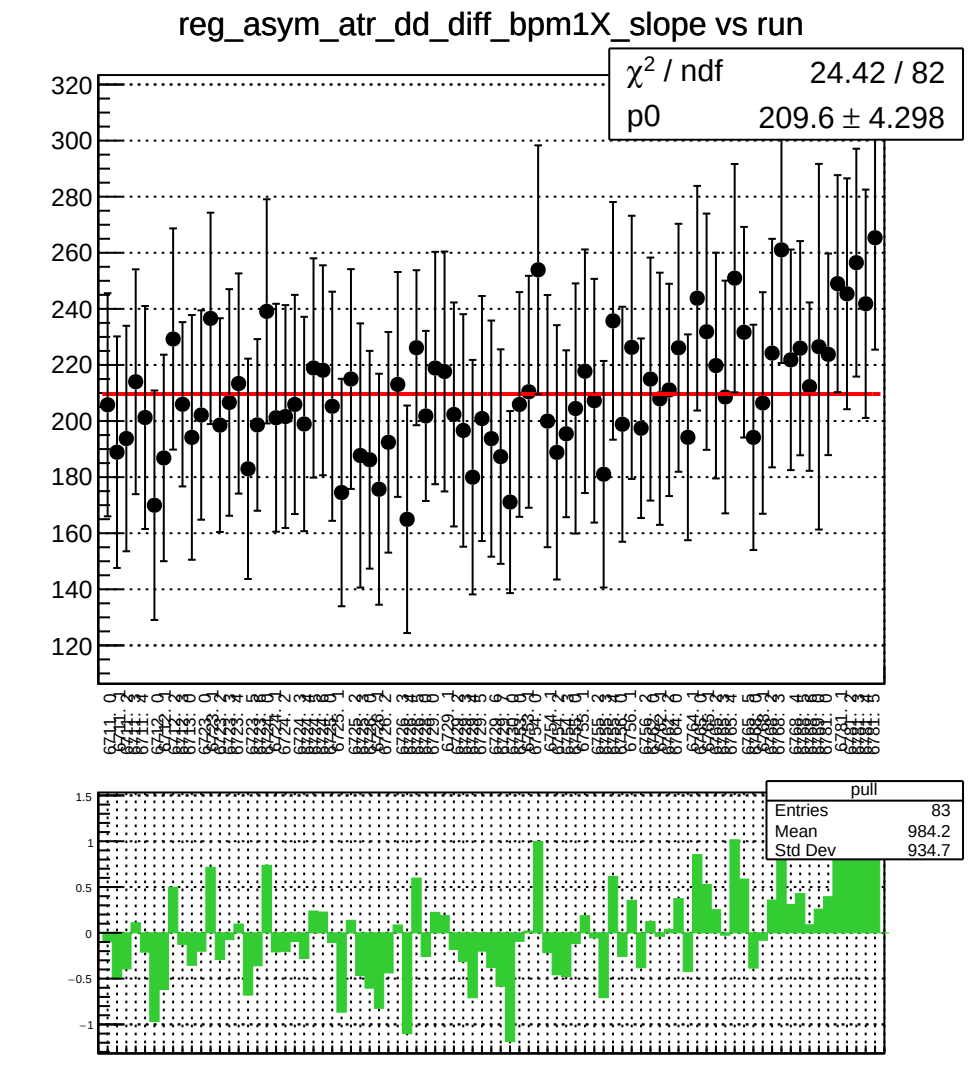

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.36 / 82
p0 274.7 ± 4.422
400
350
300
250
200
pull
Entries 83
Mean 352.3
Std Dev 298.7
1.5
1
0.5
0
−0.5
−1
−1.5

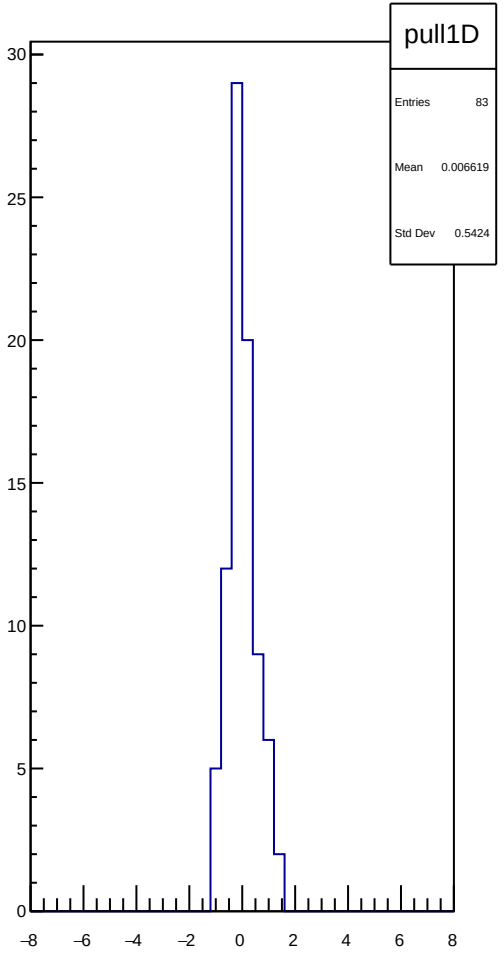

pull1D
Entries 83
Mean 0.004962
Std Dev 0.6147
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

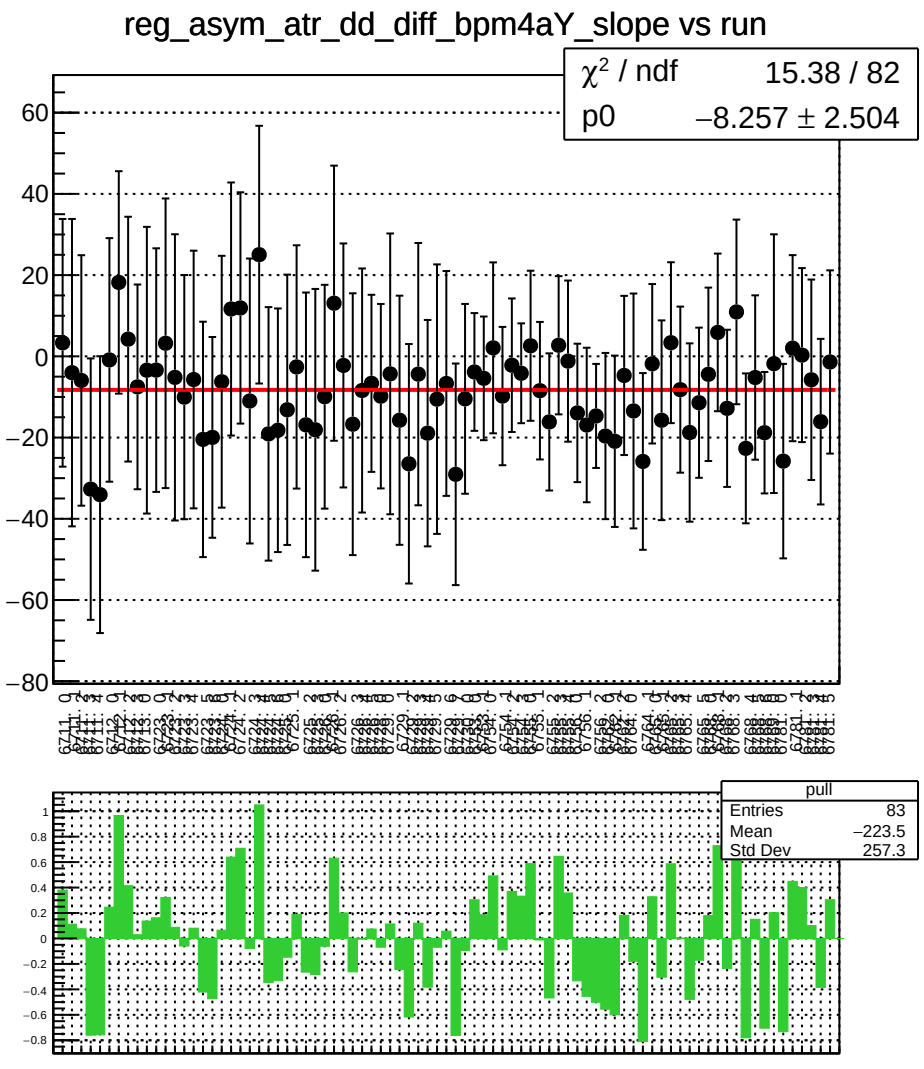

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.19 / 82
p0 38.32 ± 3.432
150
100
50
0
−50
pull
Entries 83
Mean −89.94
Std Dev 134.2
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean 0.05349
Std Dev 0.6106
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

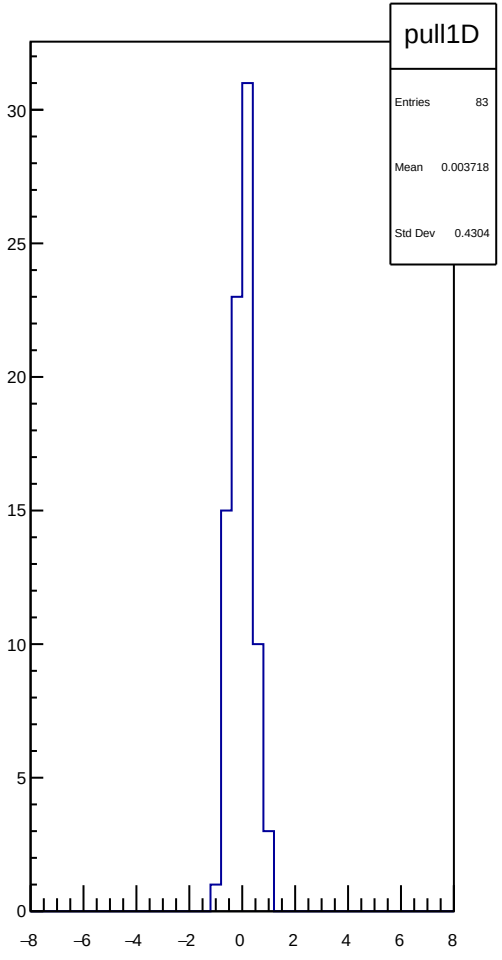

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 652.7 / 82
p0 −141.3 ± 0.2036
−130
−135
−140
−145
−150
pull
Entries 83
Mean −229
Std Dev 273.5
4
2
0
−2
−4

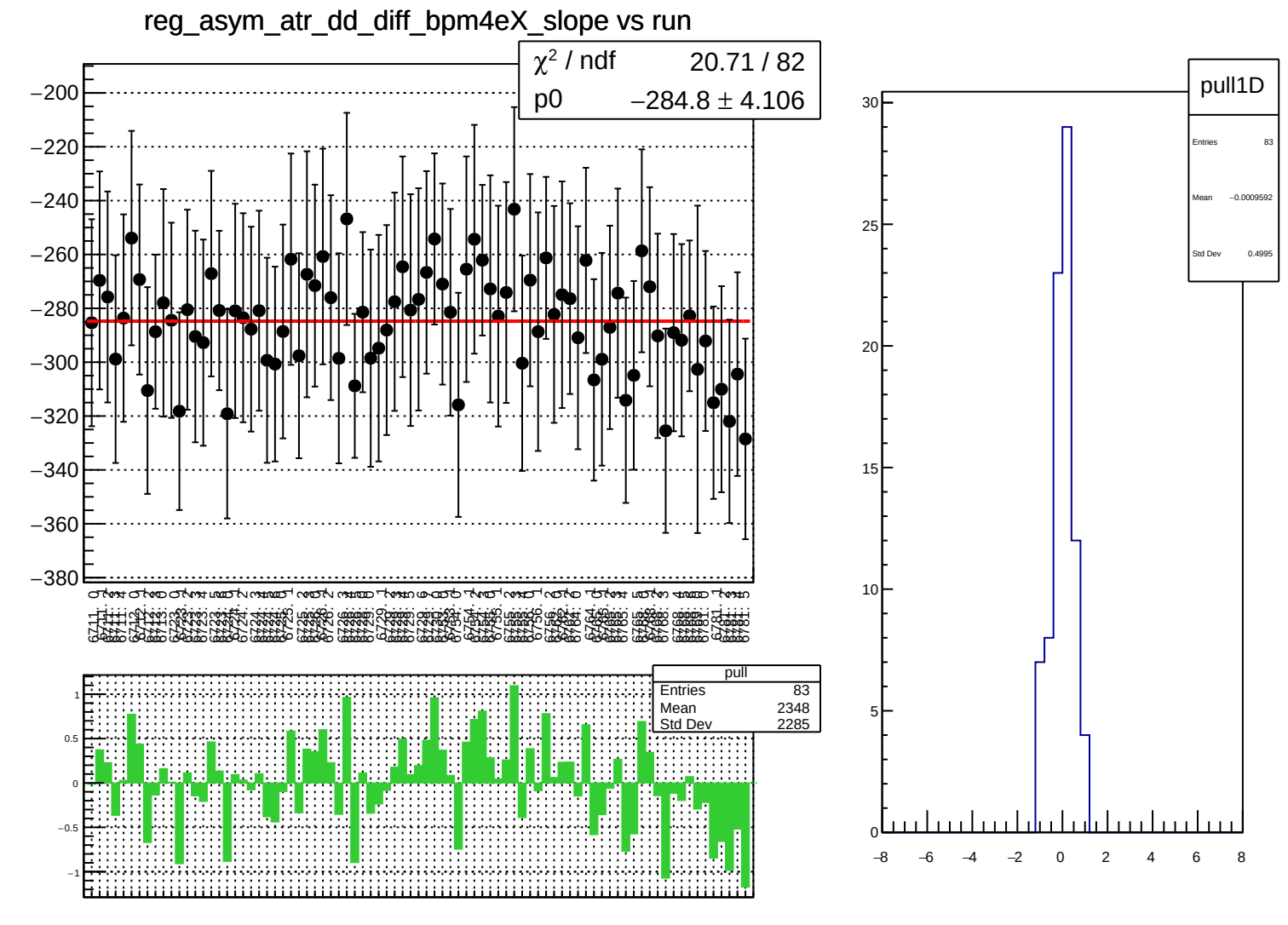

pull1D
Entries 83
Mean −0.1883
Std Dev 2.798
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

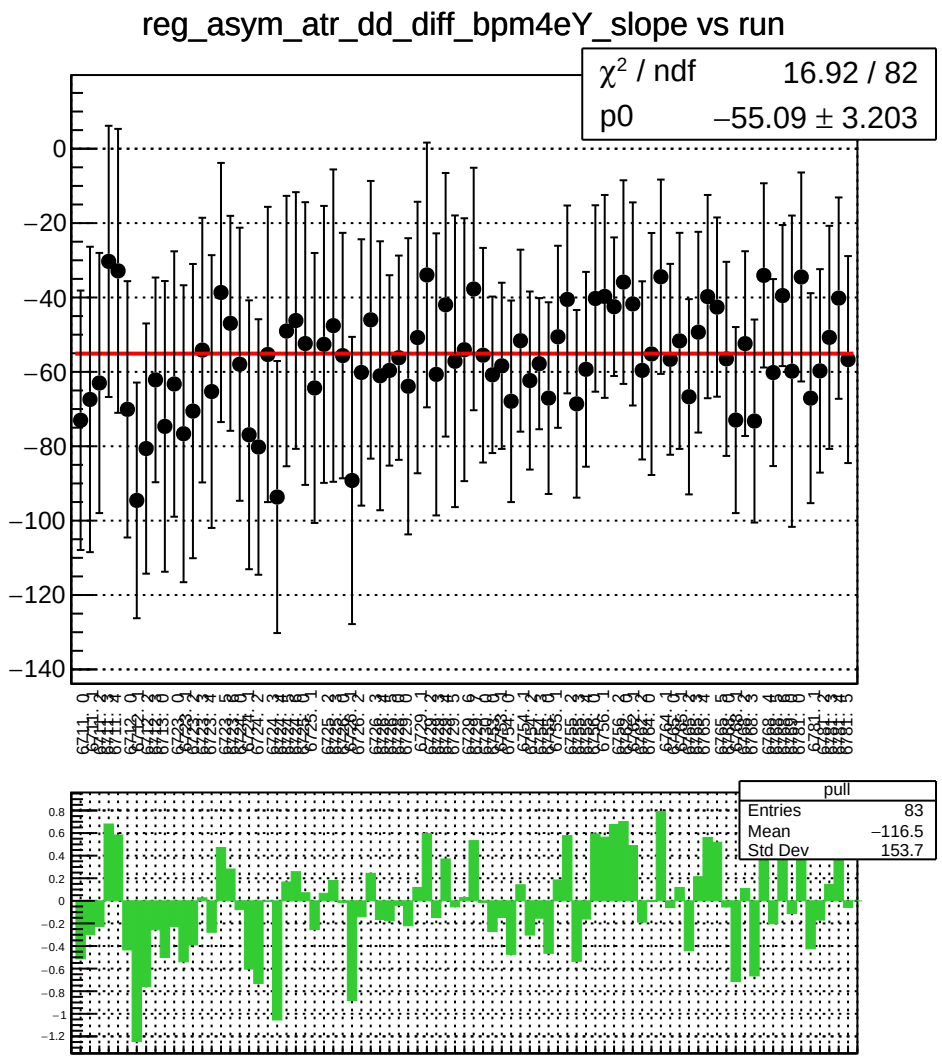

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 24.42 / 82
p0 209.6 ± 4.298
pull
Entries 83
Mean 984.2
Std Dev 934.7

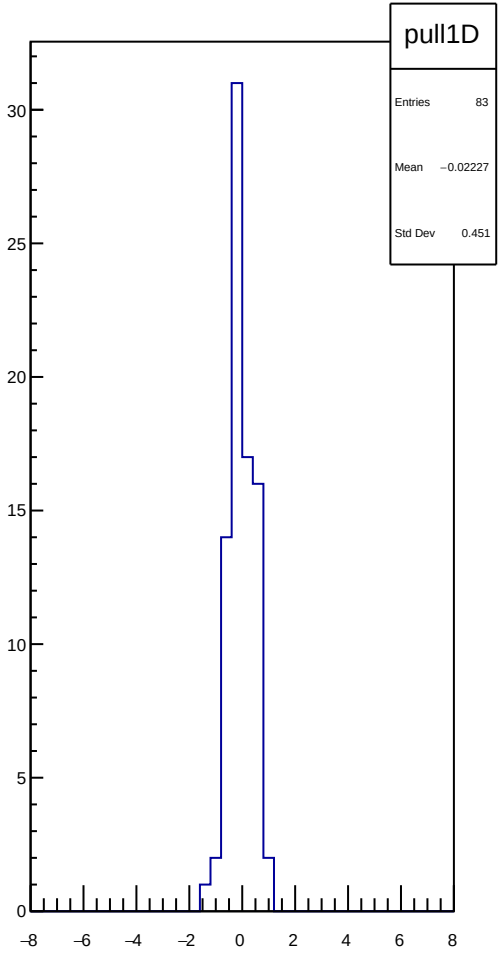

pull1D
Entries 83
Mean 0.006619
Std Dev 0.5424

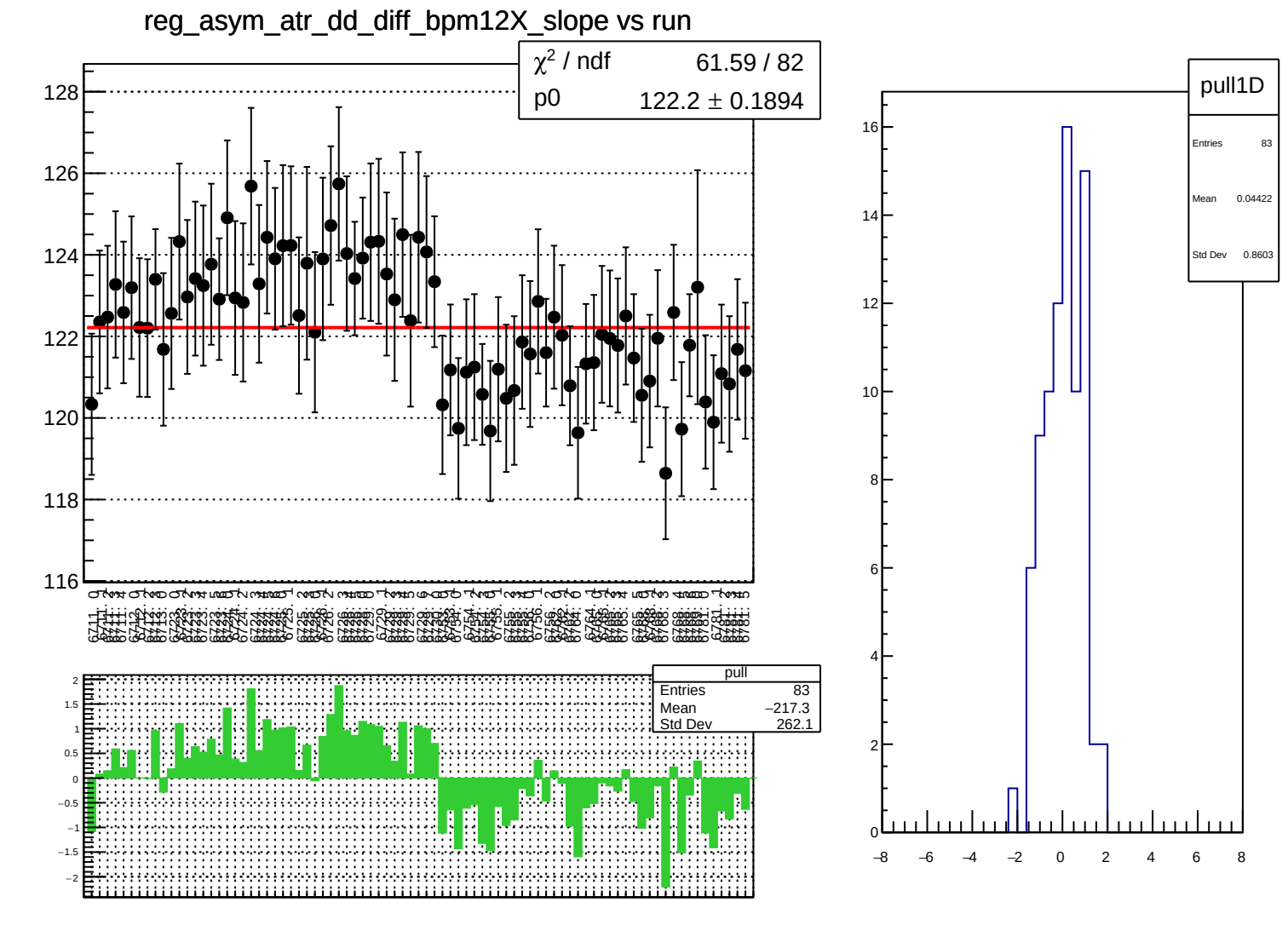

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.38 / 82
p0 −8.257 ± 2.504
pull
Entries 83
Mean −223.5
Std Dev 257.3

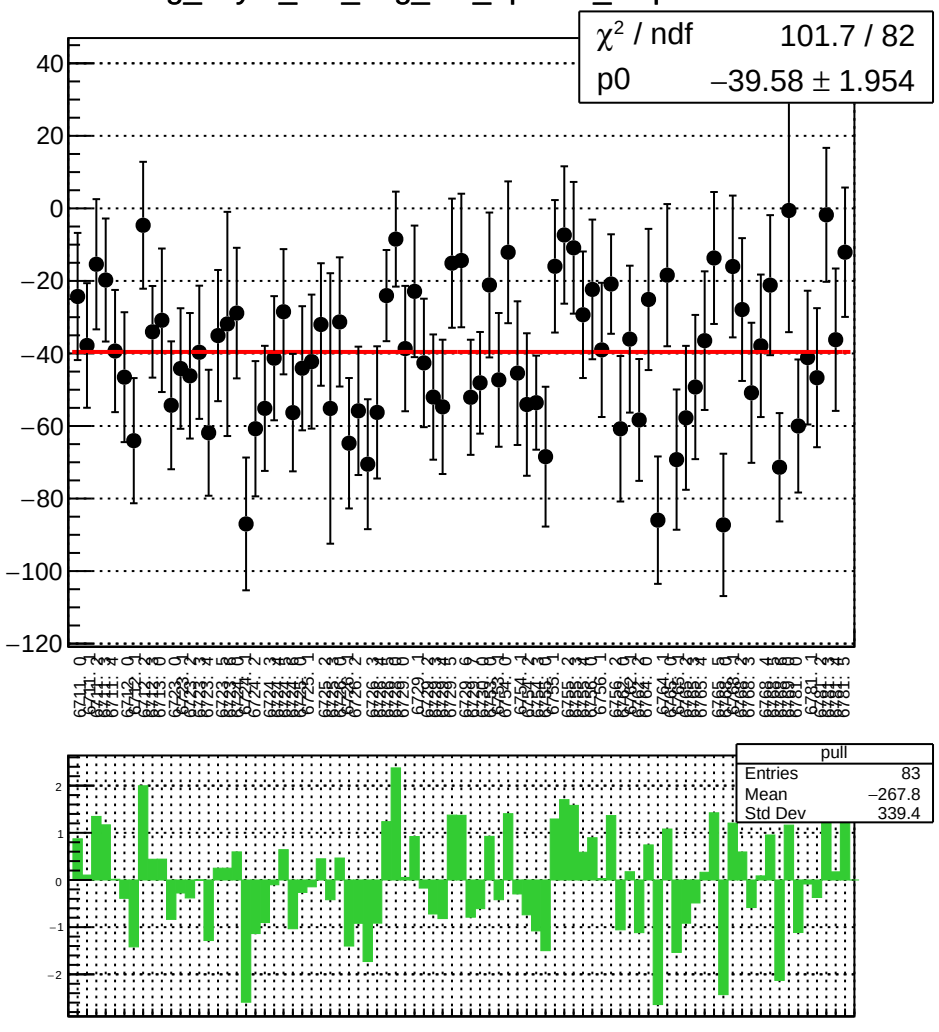

pull1D
Entries 83
Mean 0.003718
Std Dev 0.4304

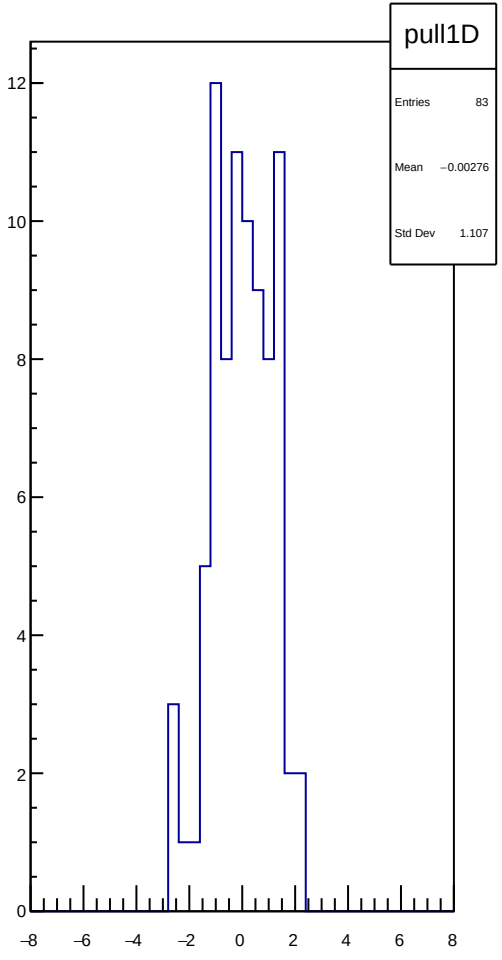

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.71 / 82
p0 −284.8 ± 4.106
pull
Entries 83
Mean 2348
Std Dev 2285
pull1D
Entries 83
Mean −0.0009592
Std Dev 0.4995

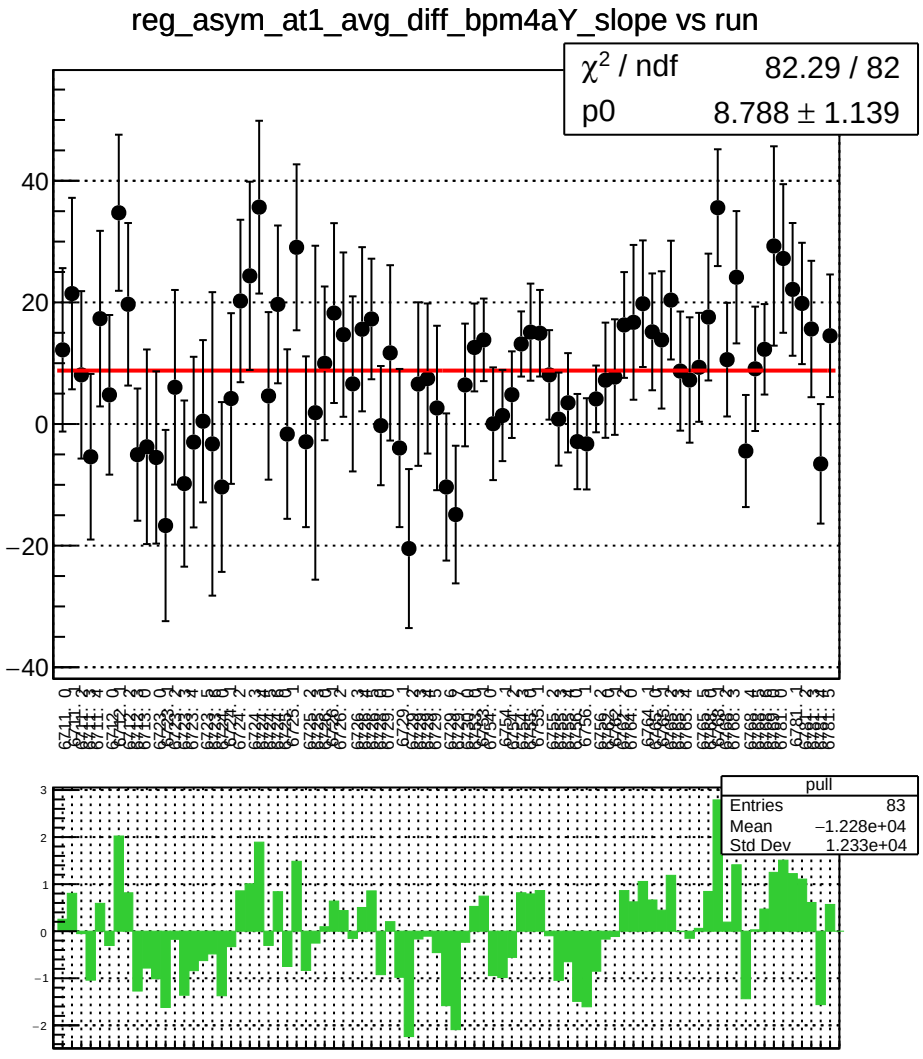

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.92 / 82
p0 −55.09 ± 3.203
pull
Entries 83
Mean −116.5
Std Dev 153.7

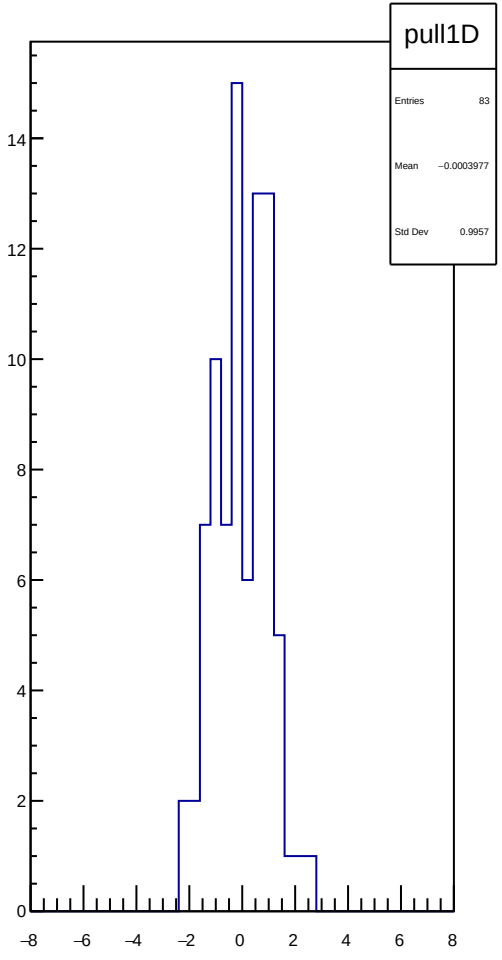

pull1D
Entries 83
Mean −0.02227
Std Dev 0.451

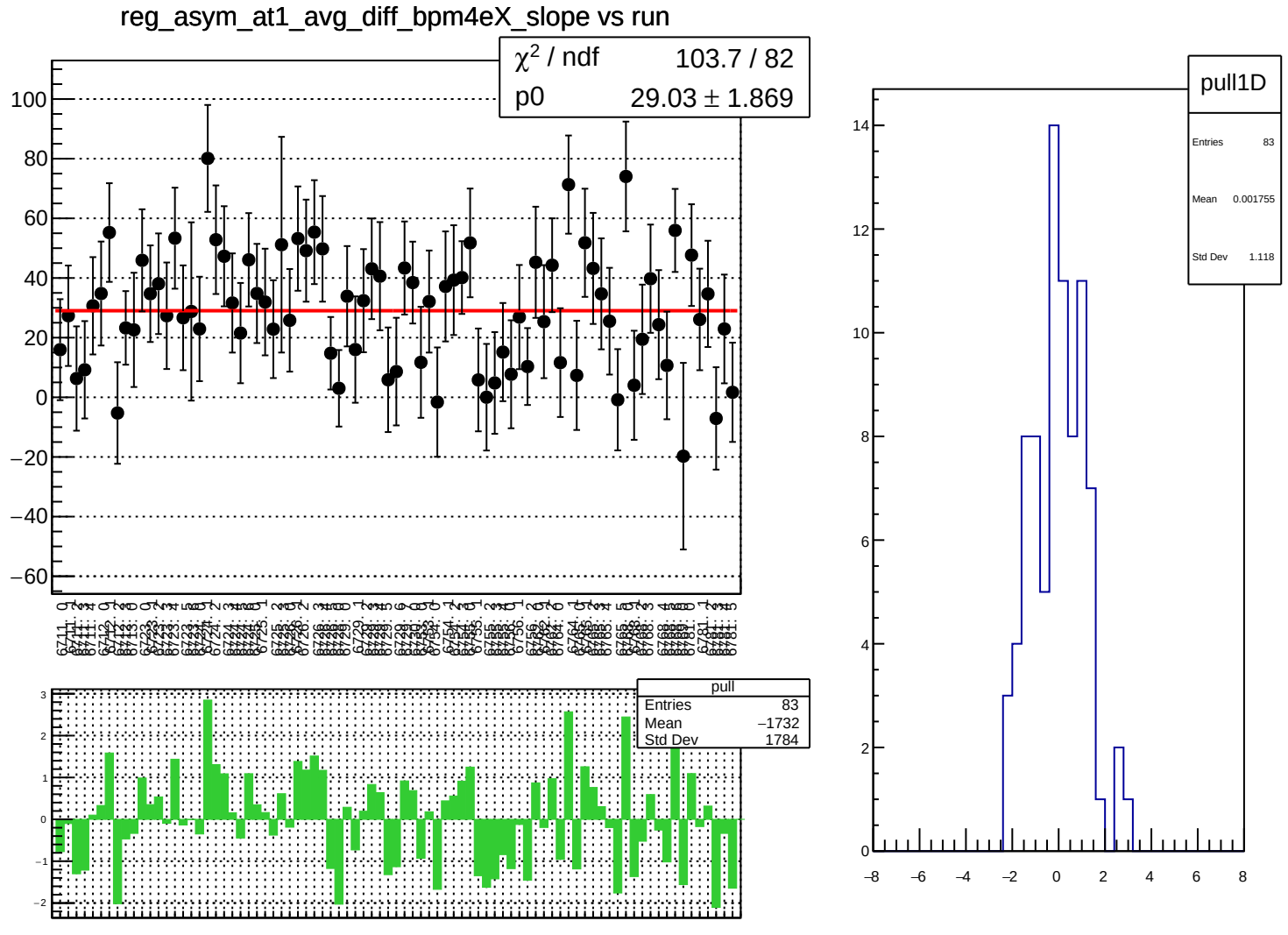

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 61.59 / 82
p0 122.2 ± 0.1894
pull
Entries 83
Mean −217.3
Std Dev 262.1
pull1D
Entries 83
Mean 0.04422
Std Dev 0.8603

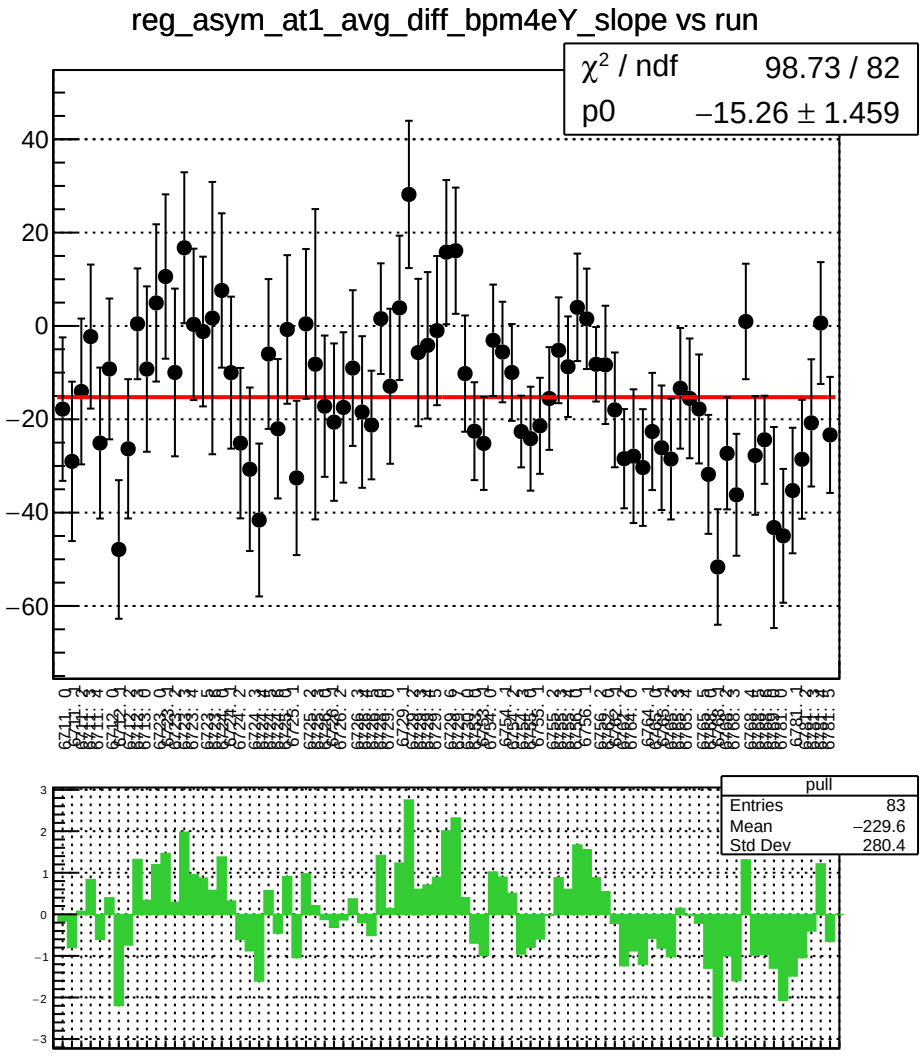

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 101.7 / 82
p0 −39.58 ± 1.954
pull
Entries 83
Mean −267.8
Std Dev 339.4

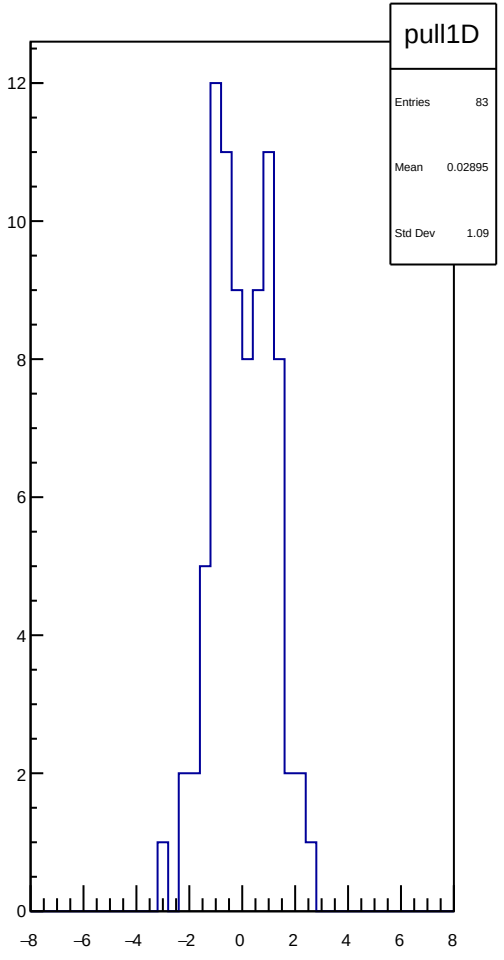

pull1D
Entries 83
Mean −0.00276
Std Dev 1.107

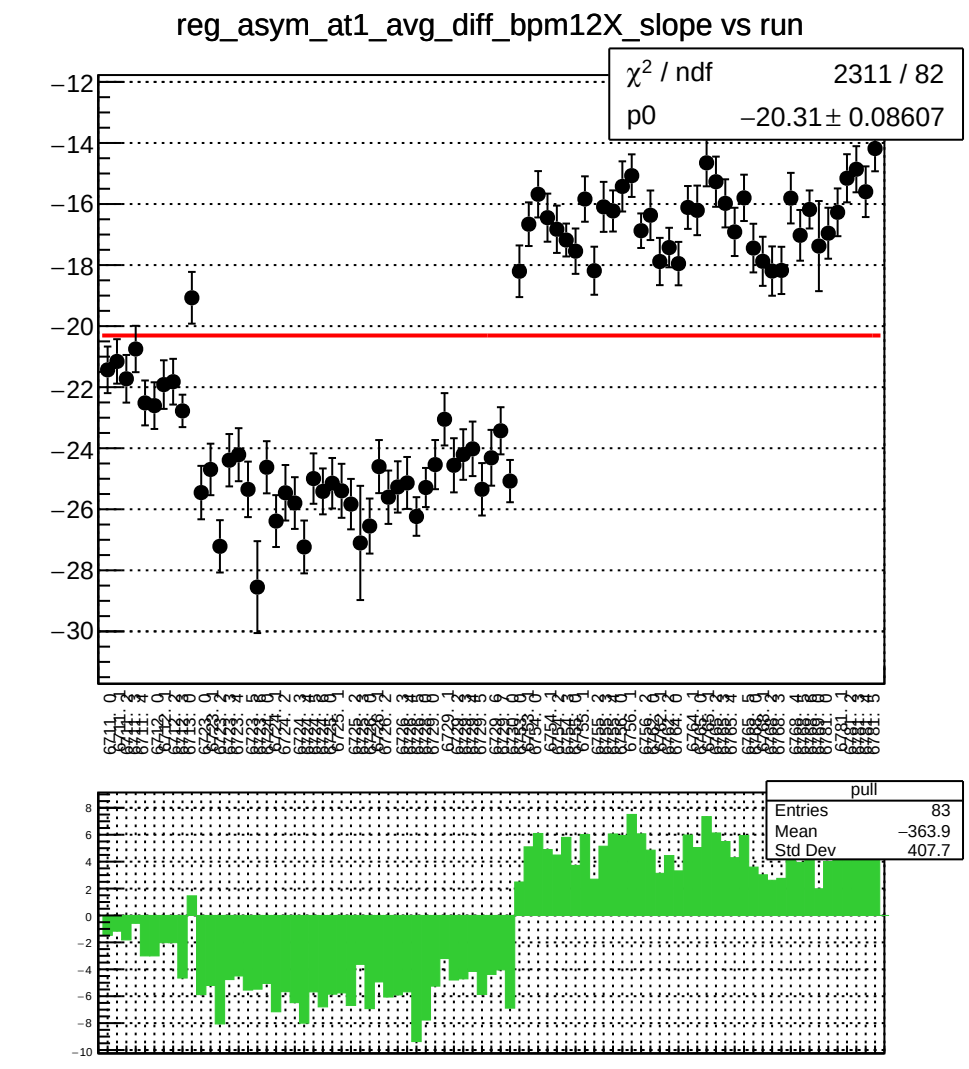

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 82.29 / 82
p0 8.788 ± 1.139
pull
Entries 83
Mean −1.228e+04
Std Dev 1.233e+04

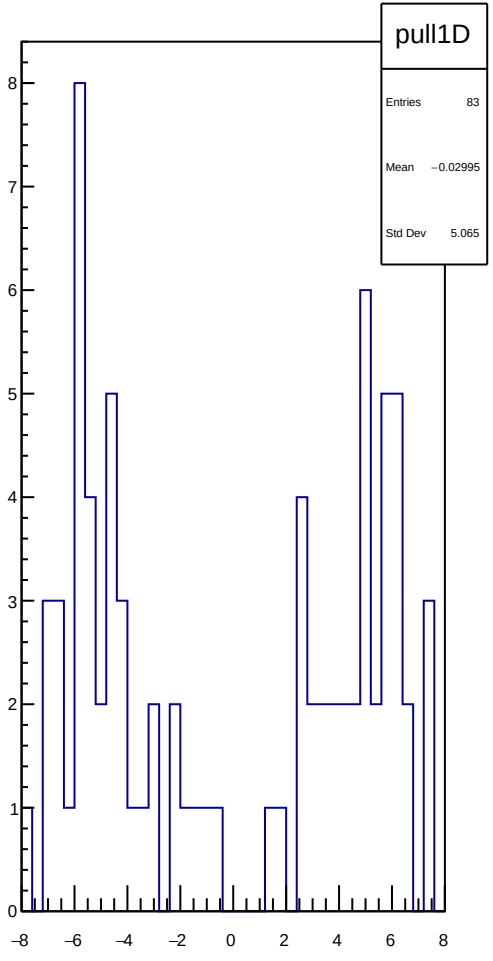

pull1D
Entries 83
Mean −0.0003977
Std Dev 0.9957

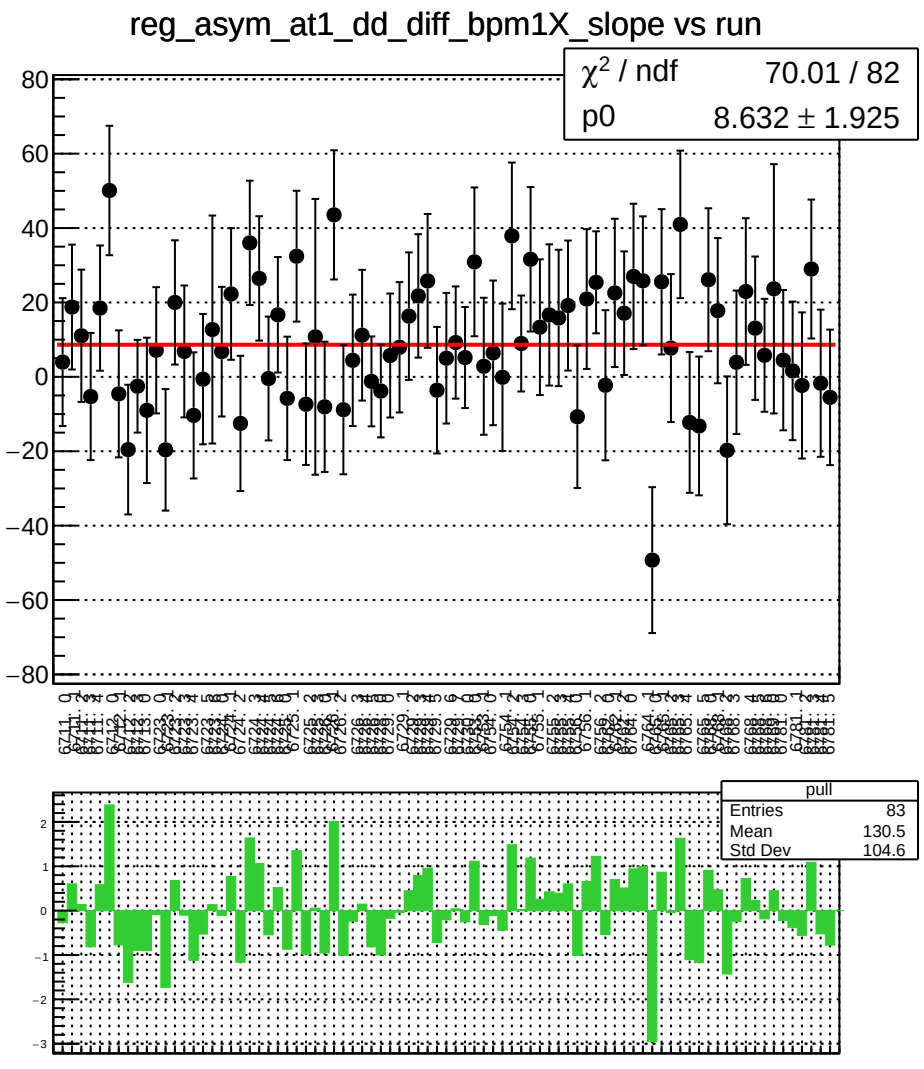

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 103.7 / 82
p0 29.03 ± 1.869
pull
Entries 83
Mean −1732
Std Dev 1784
pull1D
Entries 83
Mean 0.001755
Std Dev 1.118

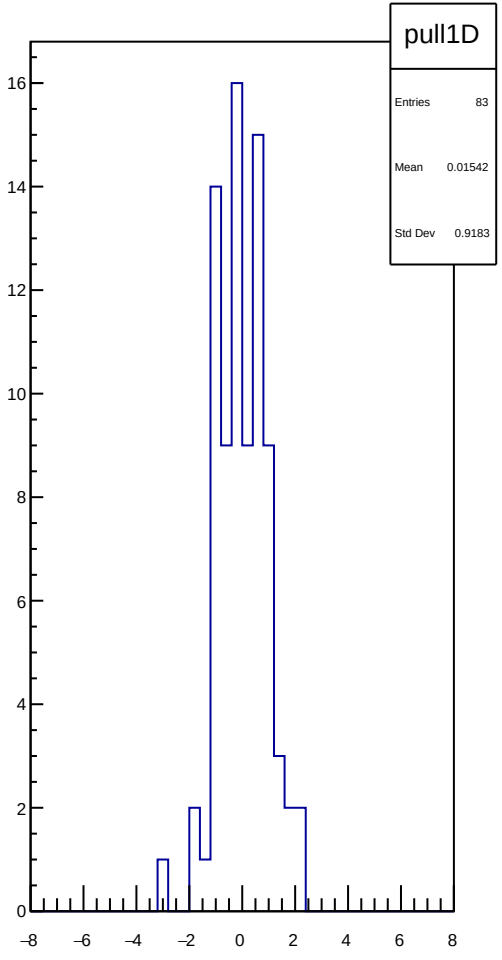

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 98.73 / 82
p0 −15.26 ± 1.459
pull
Entries 83
Mean −229.6
Std Dev 280.4

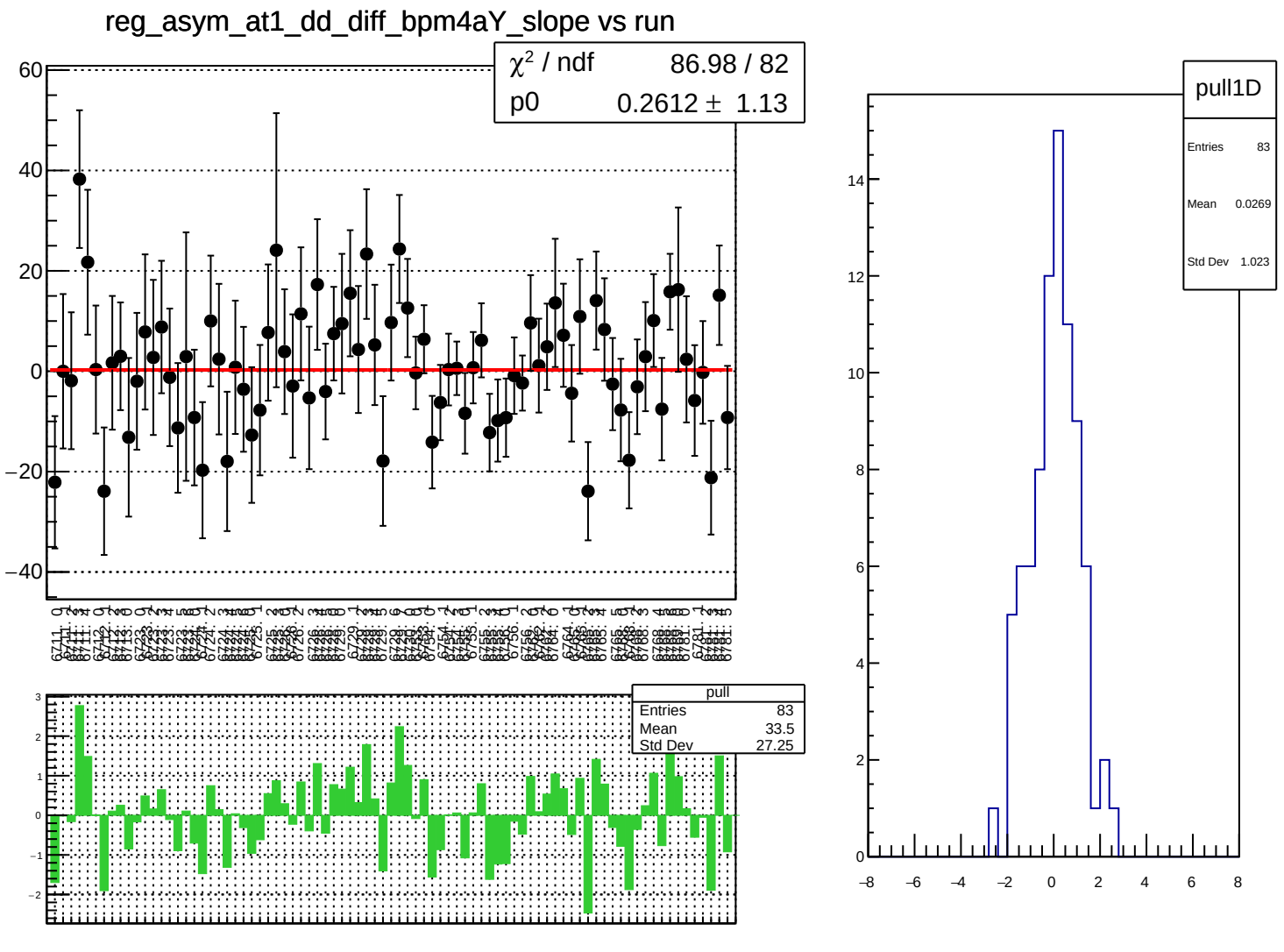

pull1D
Entries 83
Mean 0.02895
Std Dev 1.09

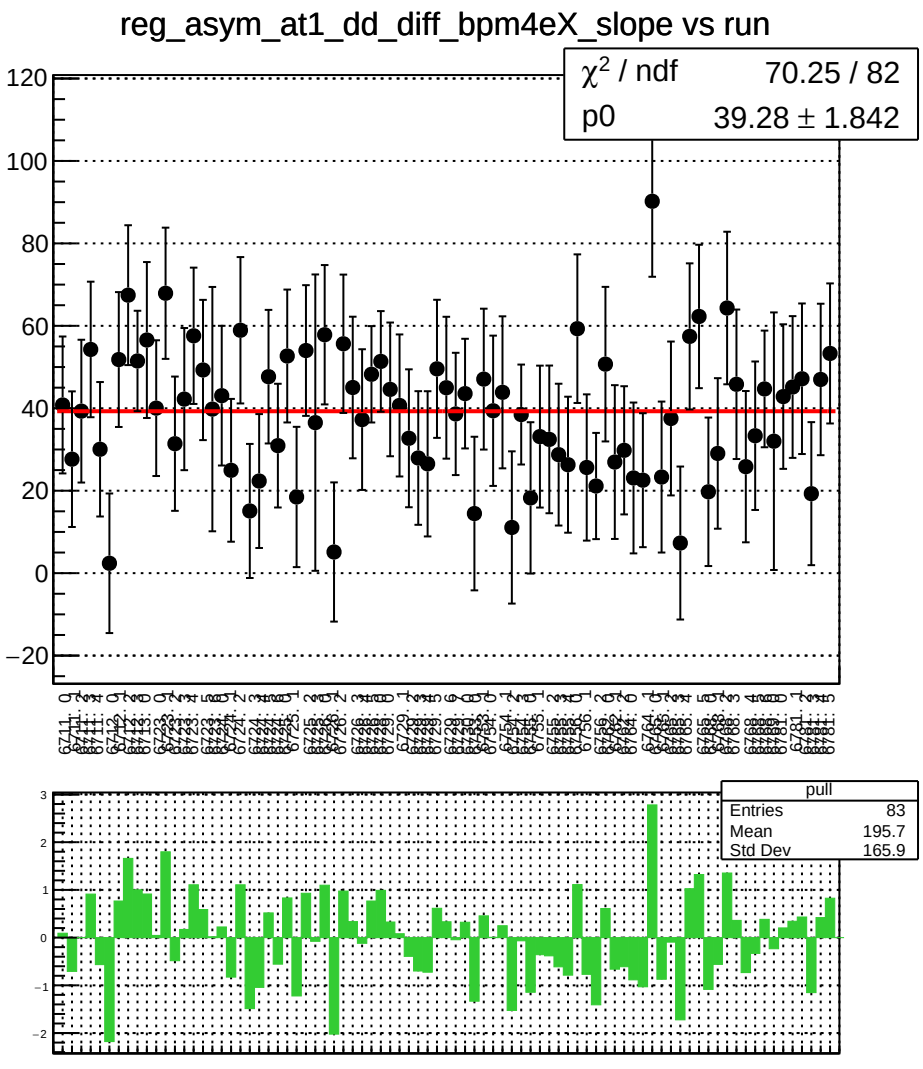

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 2311 / 82
p0 −20.31 ± 0.08607
pull
Entries 83
Mean −363.9
Std Dev 407.7

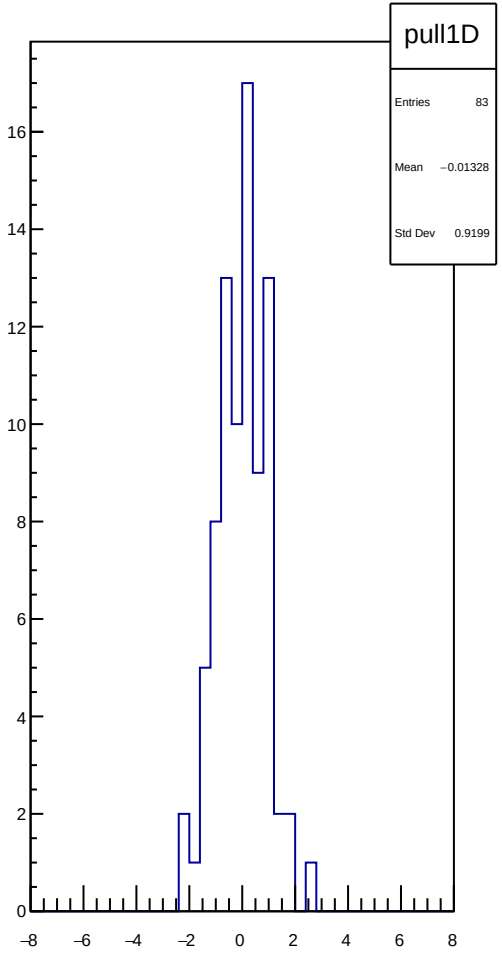

pull1D
Entries 83
Mean −0.02995
Std Dev 5.065

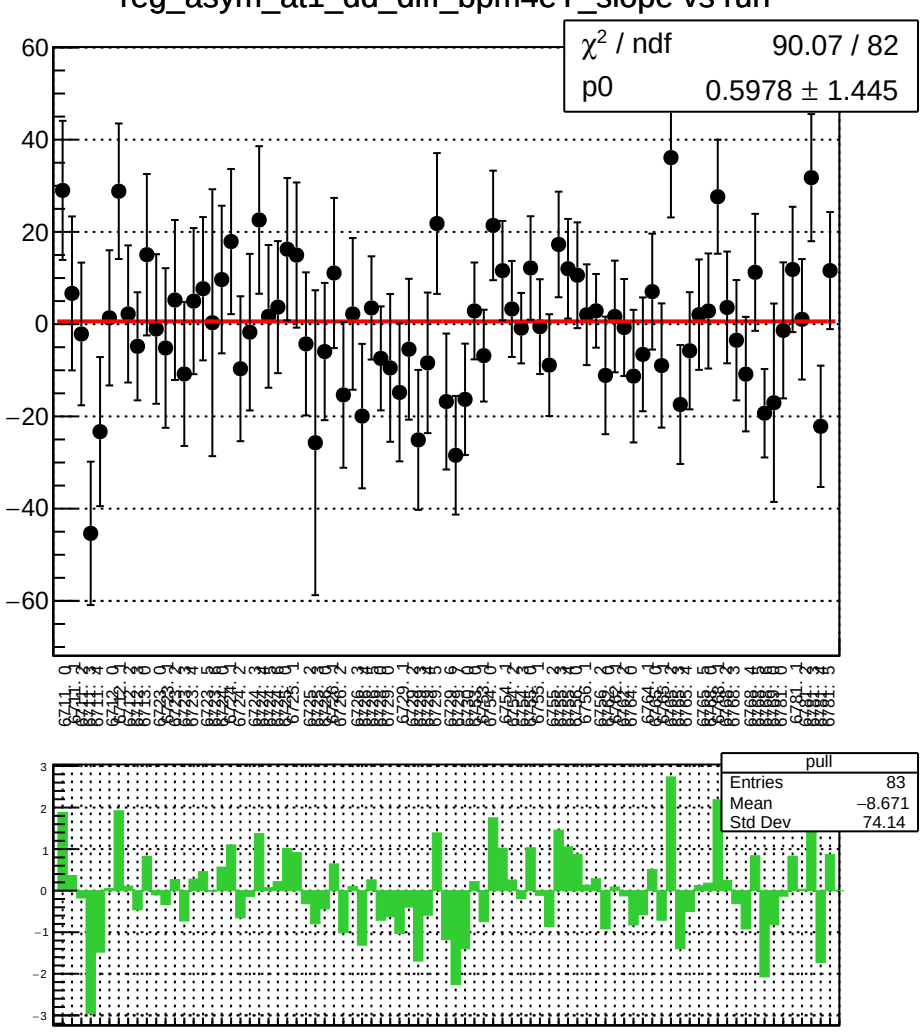

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 70.01 / 82
p0 8.632 ± 1.925
pull
Entries 83
Mean 130.5
Std Dev 104.6

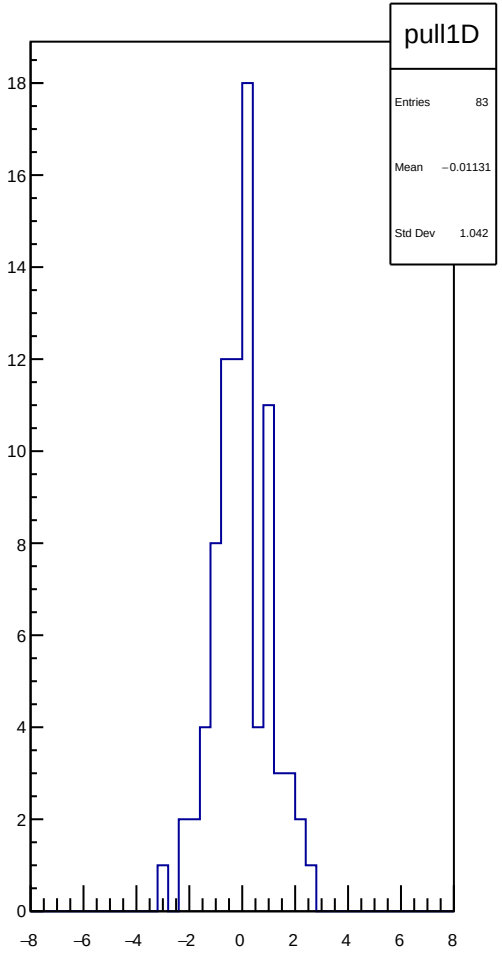

pull1D
Entries 83
Mean 0.01542
Std Dev 0.9183

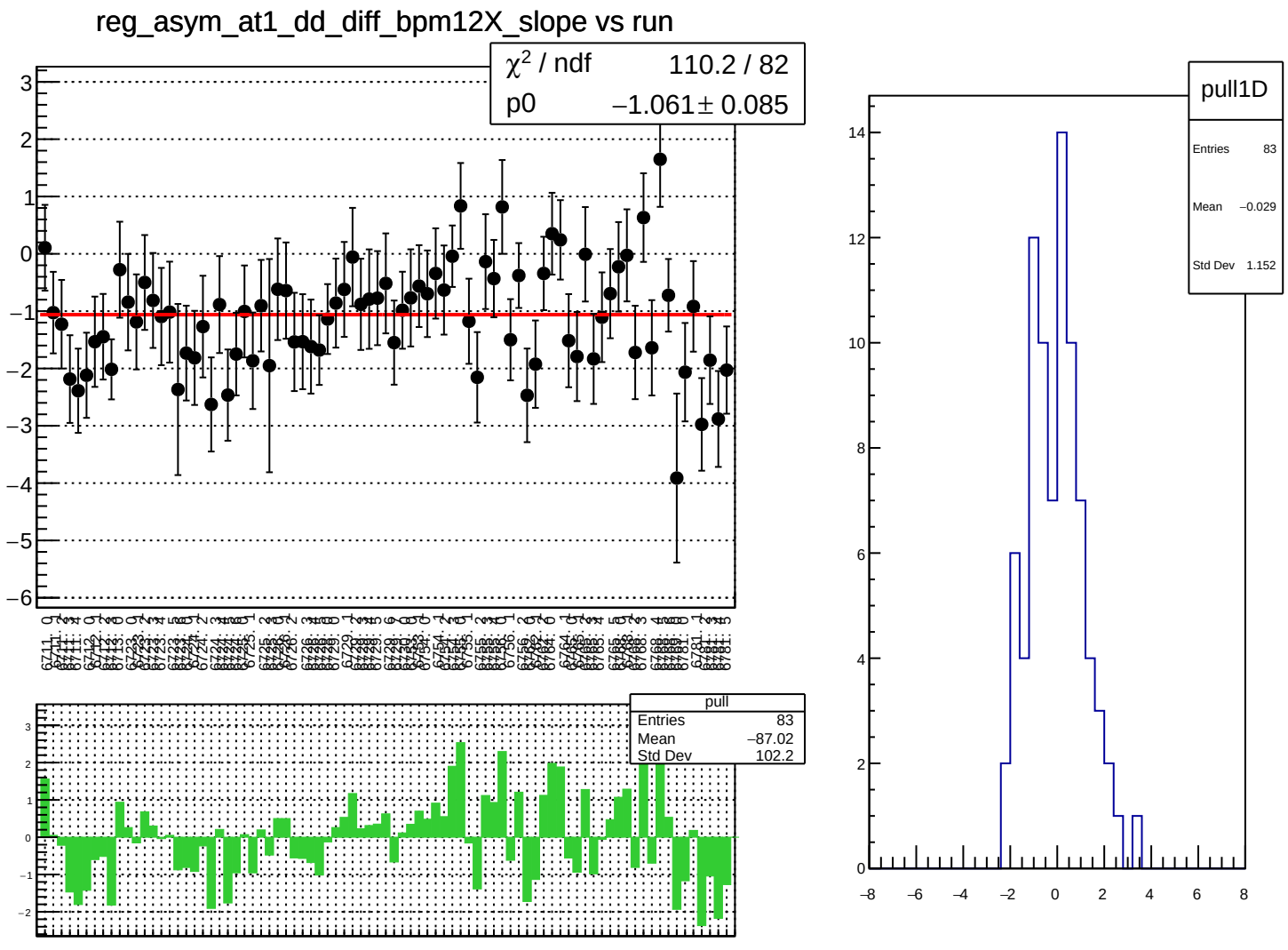

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.98 / 82
p0 0.2612 ± 1.13
pull
Entries 83
Mean 33.5
Std Dev 27.25
pull1D
Entries 83
Mean 0.0269
Std Dev 1.023

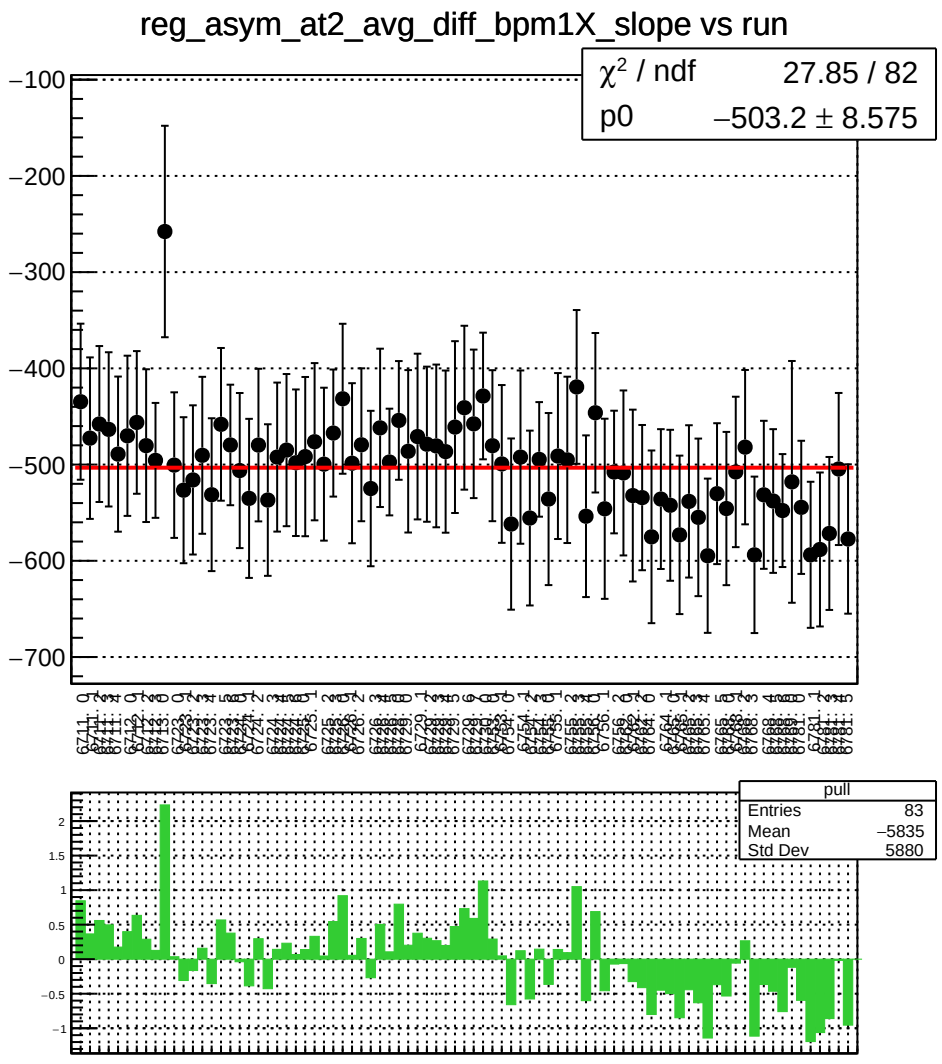

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 70.25 / 82
p0 39.28 ± 1.842
pull
Entries 83
Mean 195.7
Std Dev 165.9

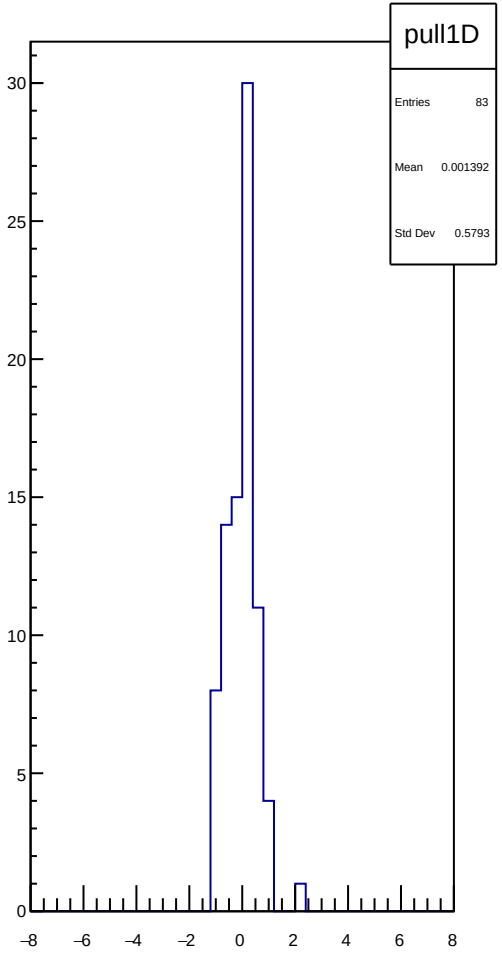

pull1D
Entries 83
Mean −0.01328
Std Dev 0.9199

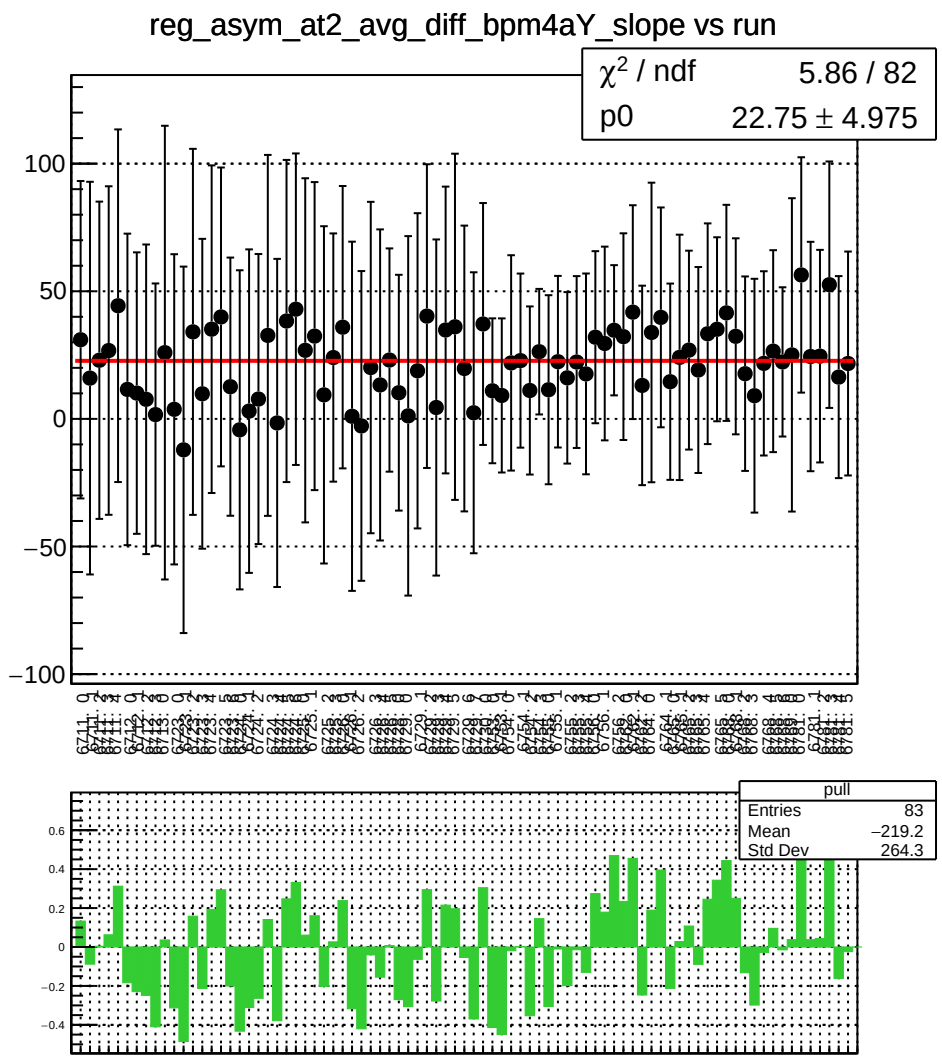

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 90.07 / 82
p0 0.5978 ± 1.445
pull
Entries 83
Mean −8.671
Std Dev 74.14

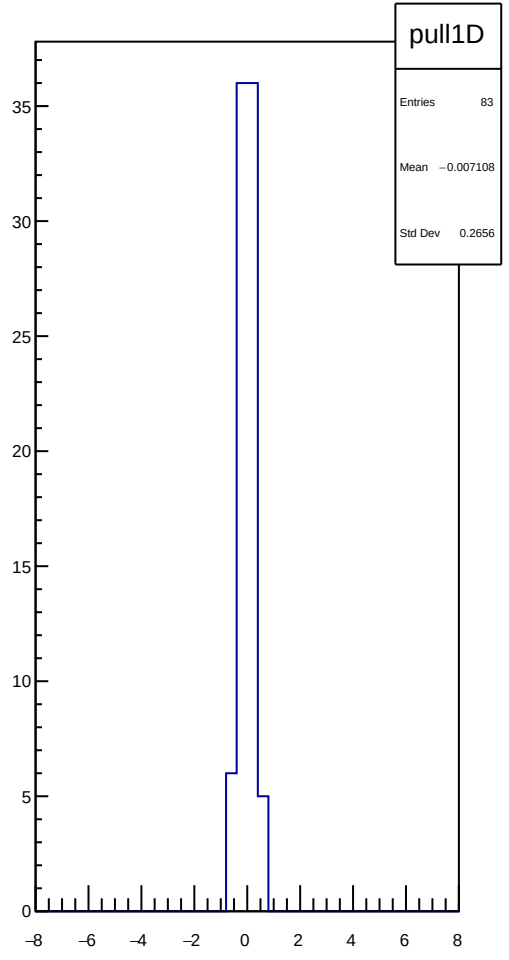

pull1D
Entries 83
Mean −0.01131
Std Dev 1.042

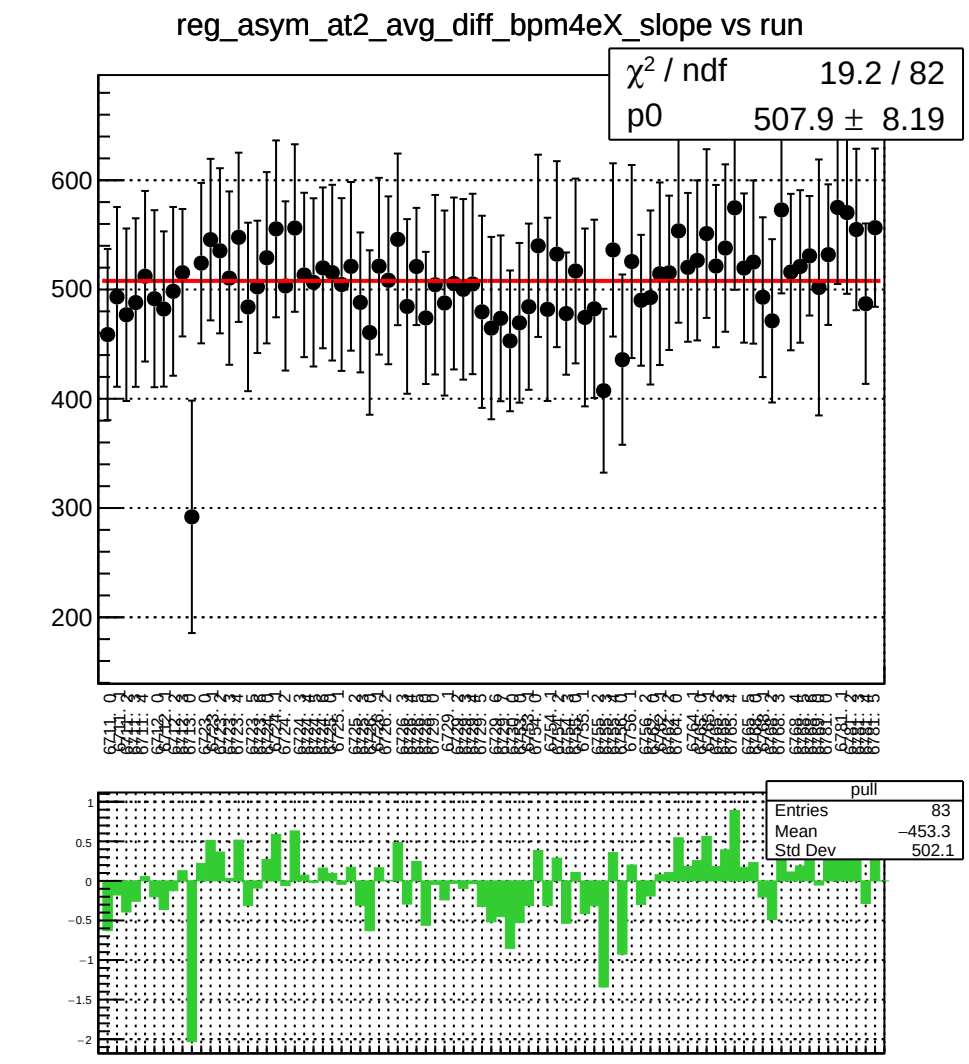

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 110.2 / 82
p0 −1.061± 0.085
pull
Entries 83
Mean −87.02
Std Dev 102.2
pull1D
Entries 83
Mean −0.029
Std Dev 1.152

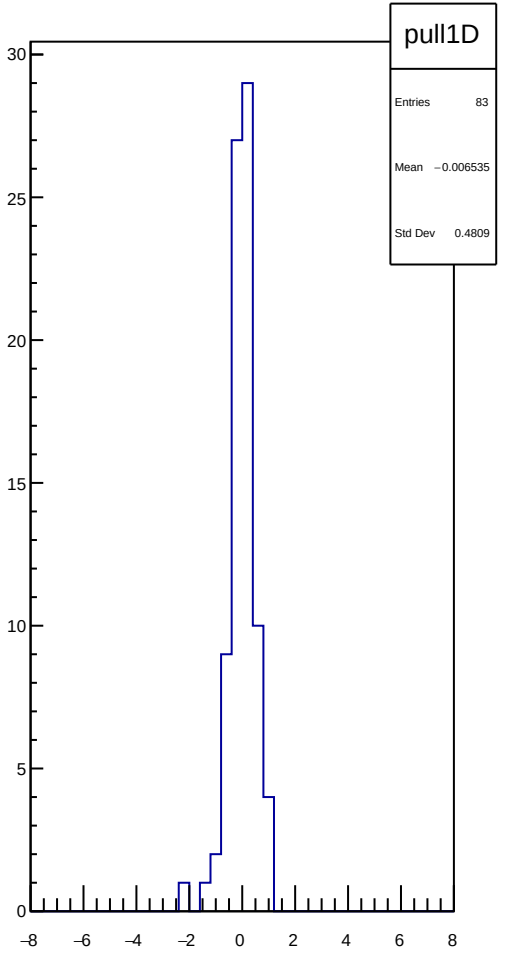

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 27.85 / 82
p0 −503.2 ± 8.575
pull
Entries 83
Mean −5835
Std Dev 5880

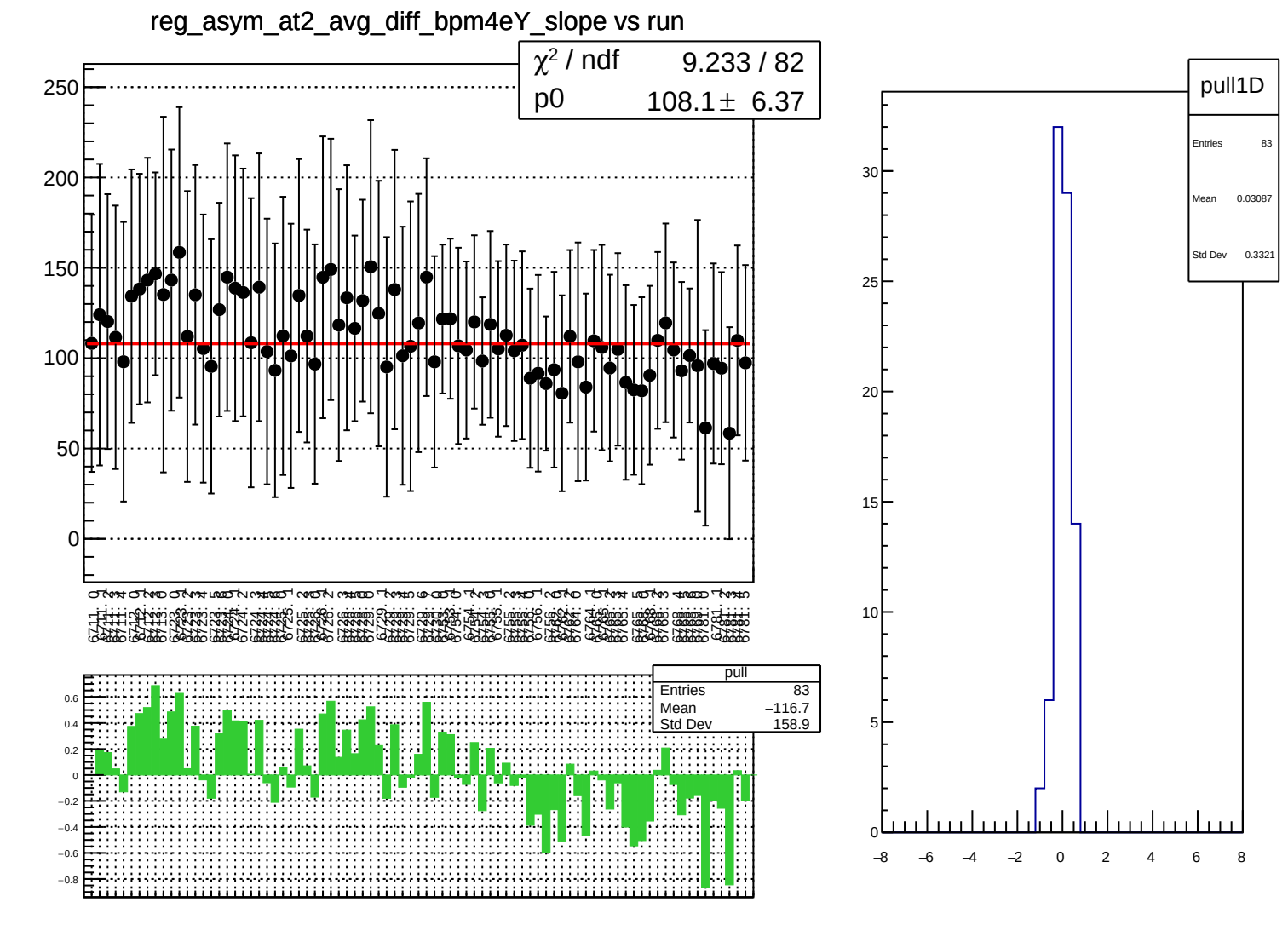

pull1D
Entries 83
Mean 0.001392
Std Dev 0.5793

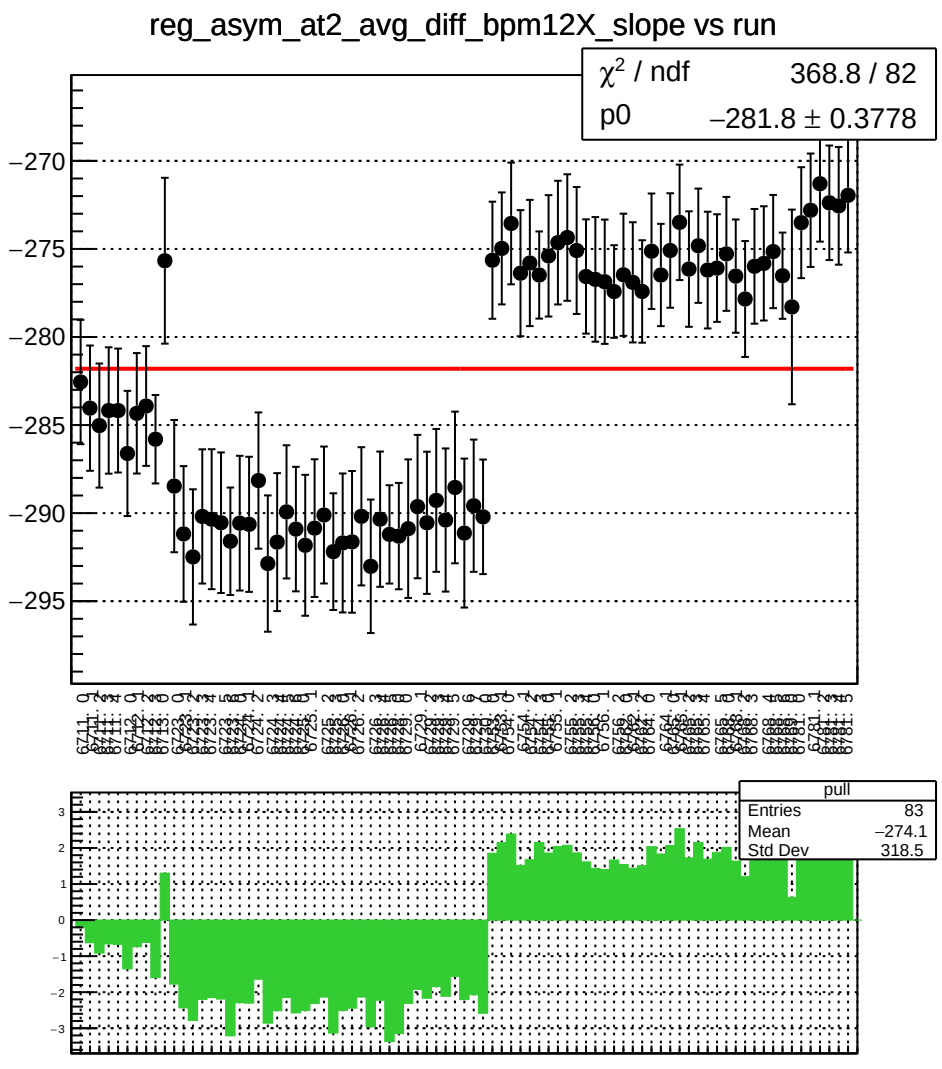

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 5.86 / 82
p0 22.75 ± 4.975
100
50
0
−50
−100
pull
Entries 83
Mean −219.2
Std Dev 264.3
0.6
0.4
0.2
0
−0.2
−0.4

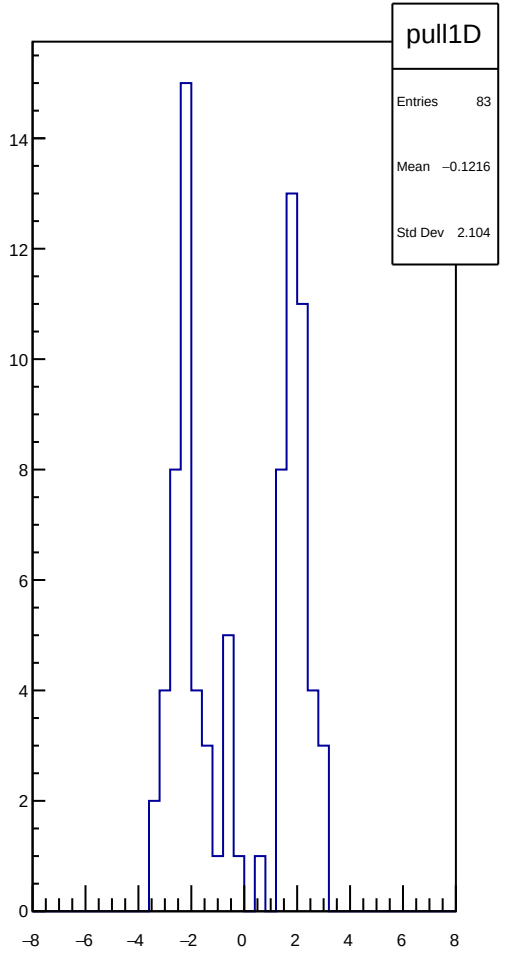

pull1D
Entries 83
Mean −0.007108
Std Dev 0.2656
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

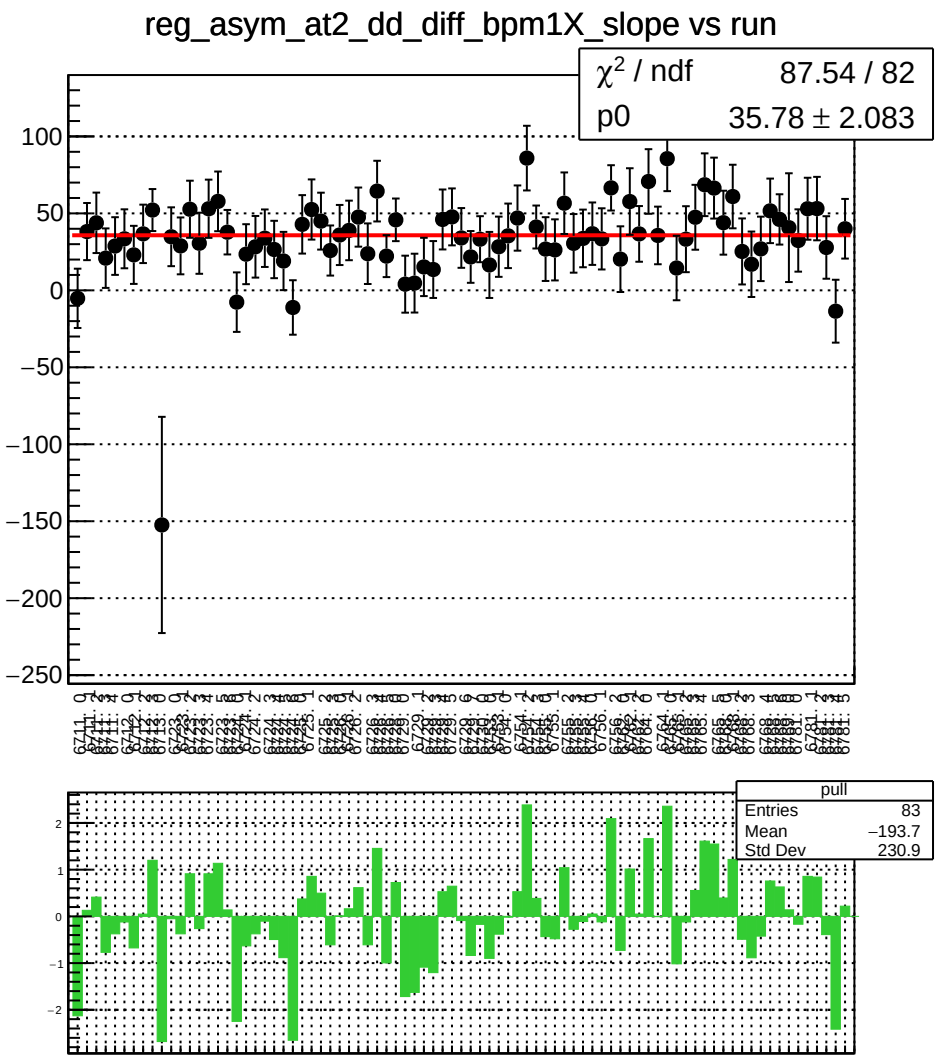

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.2 / 82
p0 507.9 ± 8.19
600
500
400
300
200
pull
Entries 83
Mean −453.3
Std Dev 502.1
1
0.5
0
−0.5
−1
−1.5
−2

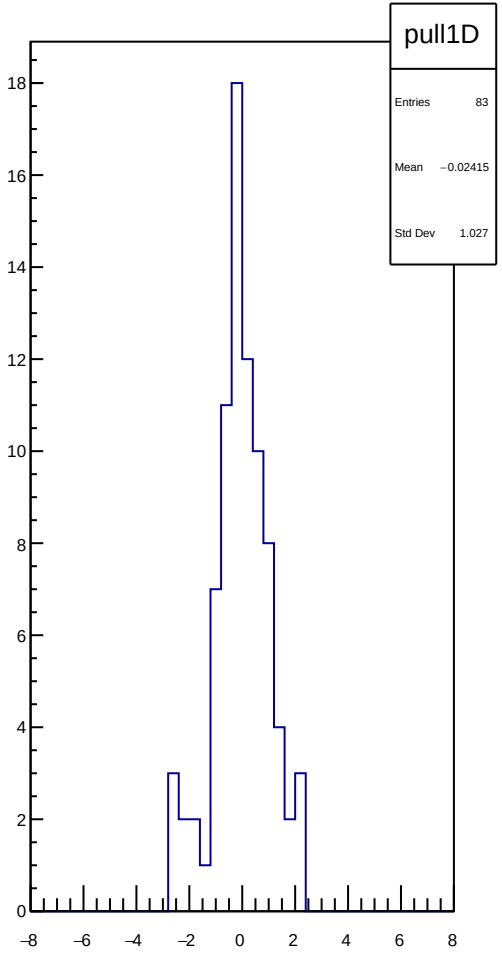

pull1D
Entries 83
Mean −0.006535
Std Dev 0.4809
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

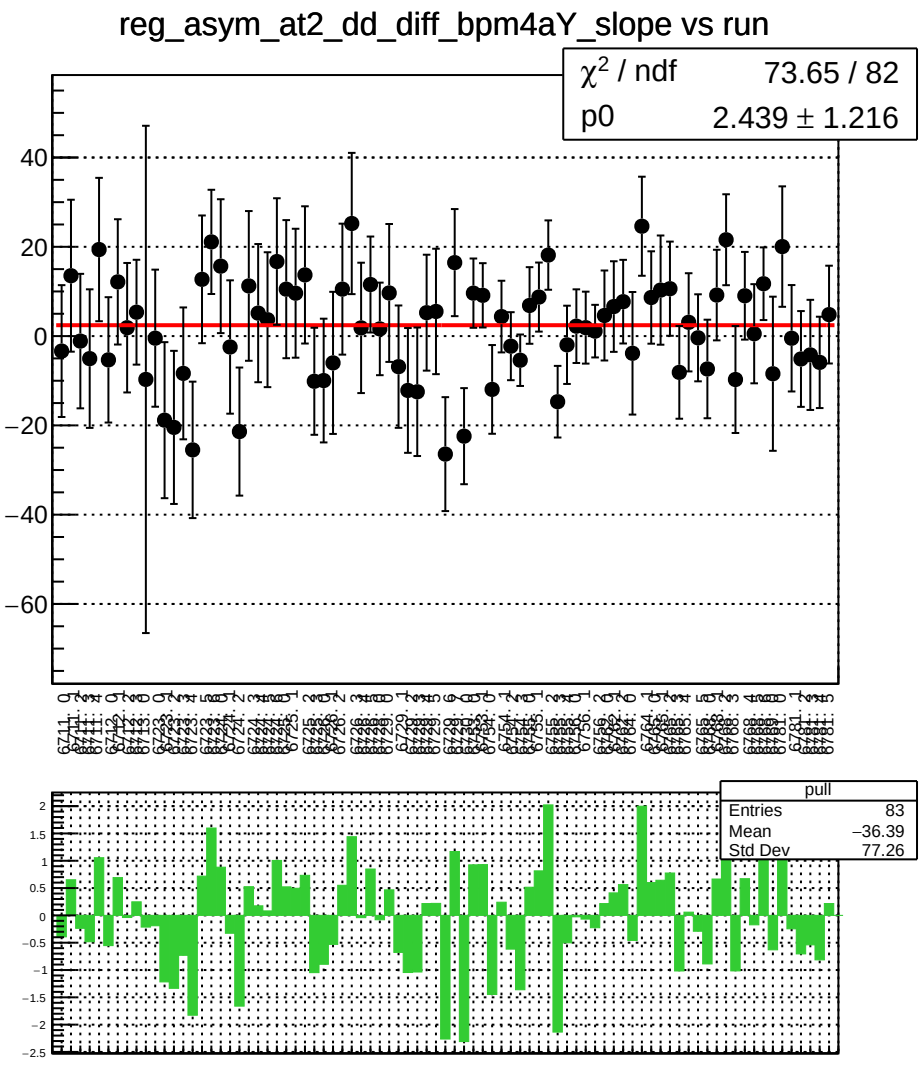

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.233 / 82
p0 108.1 ± 6.37
pull
Entries 83
Mean −116.7
Std Dev 158.9
pull1D
Entries 83
Mean 0.03087
Std Dev 0.3321

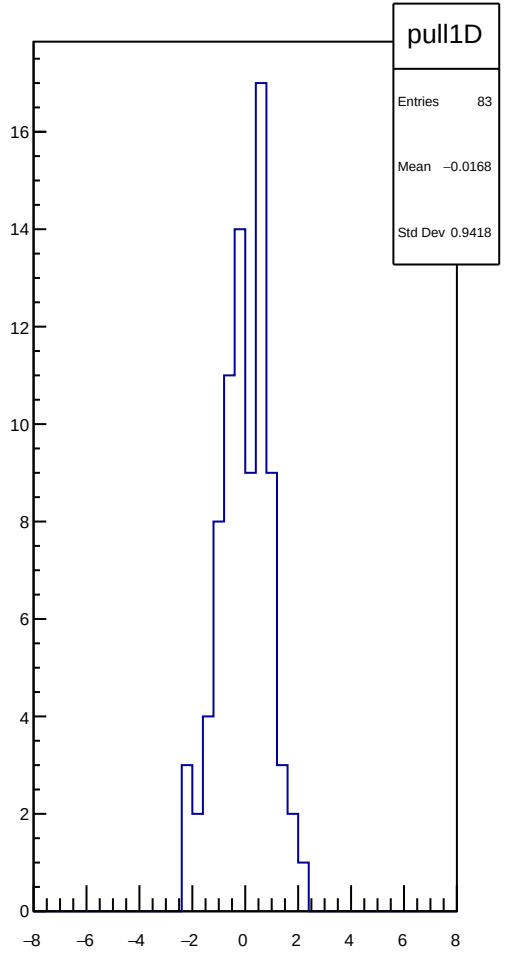

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 368.8 / 82
p0 −281.8 ± 0.3778
−270
−275
−280
−285
−290
−295
pull
Entries 83
Mean −274.1
Std Dev 318.5
3
2
1
0
−1
−2
−3

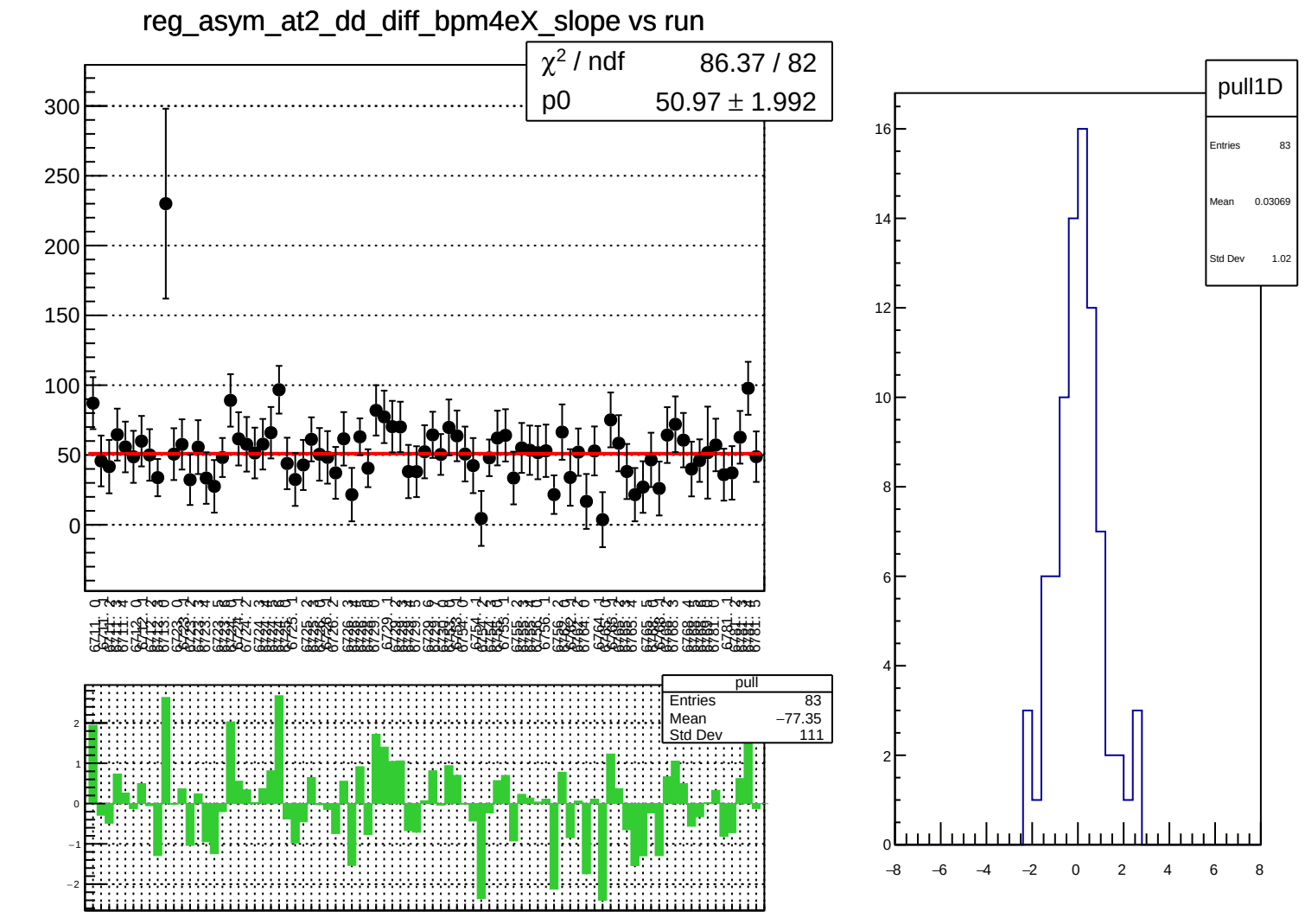

pull1D
Entries 83
Mean −0.1216
Std Dev 2.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

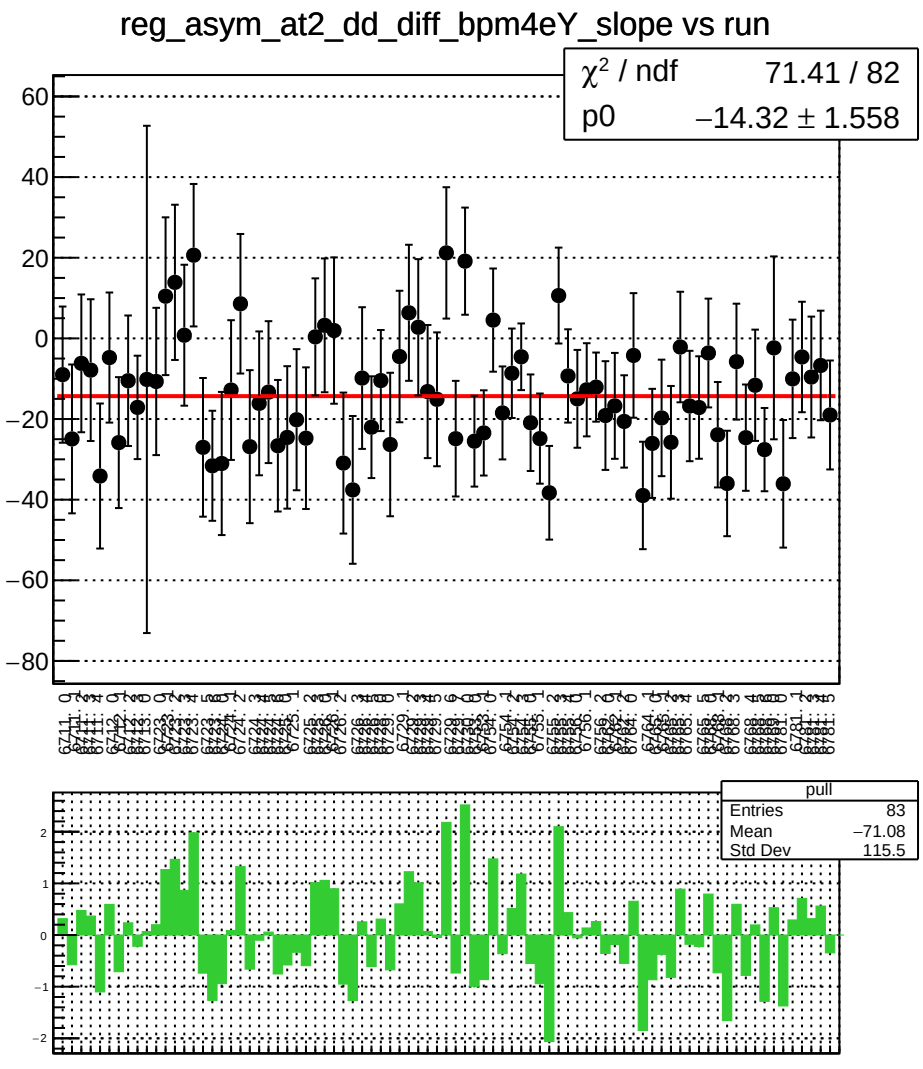

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 87.54 / 82
p0 35.78 ± 2.083
pull
Entries 83
Mean −193.7
Std Dev 230.9

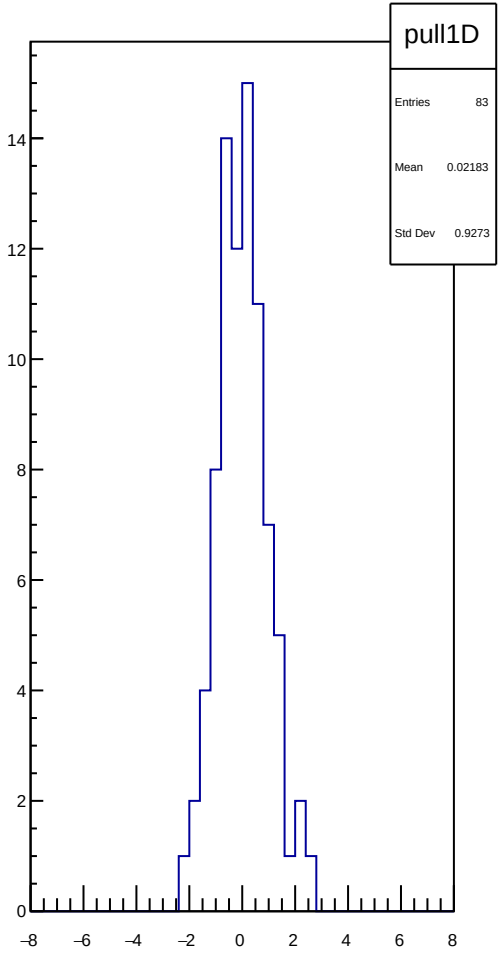

pull1D
Entries 83
Mean −0.02415
Std Dev 1.027

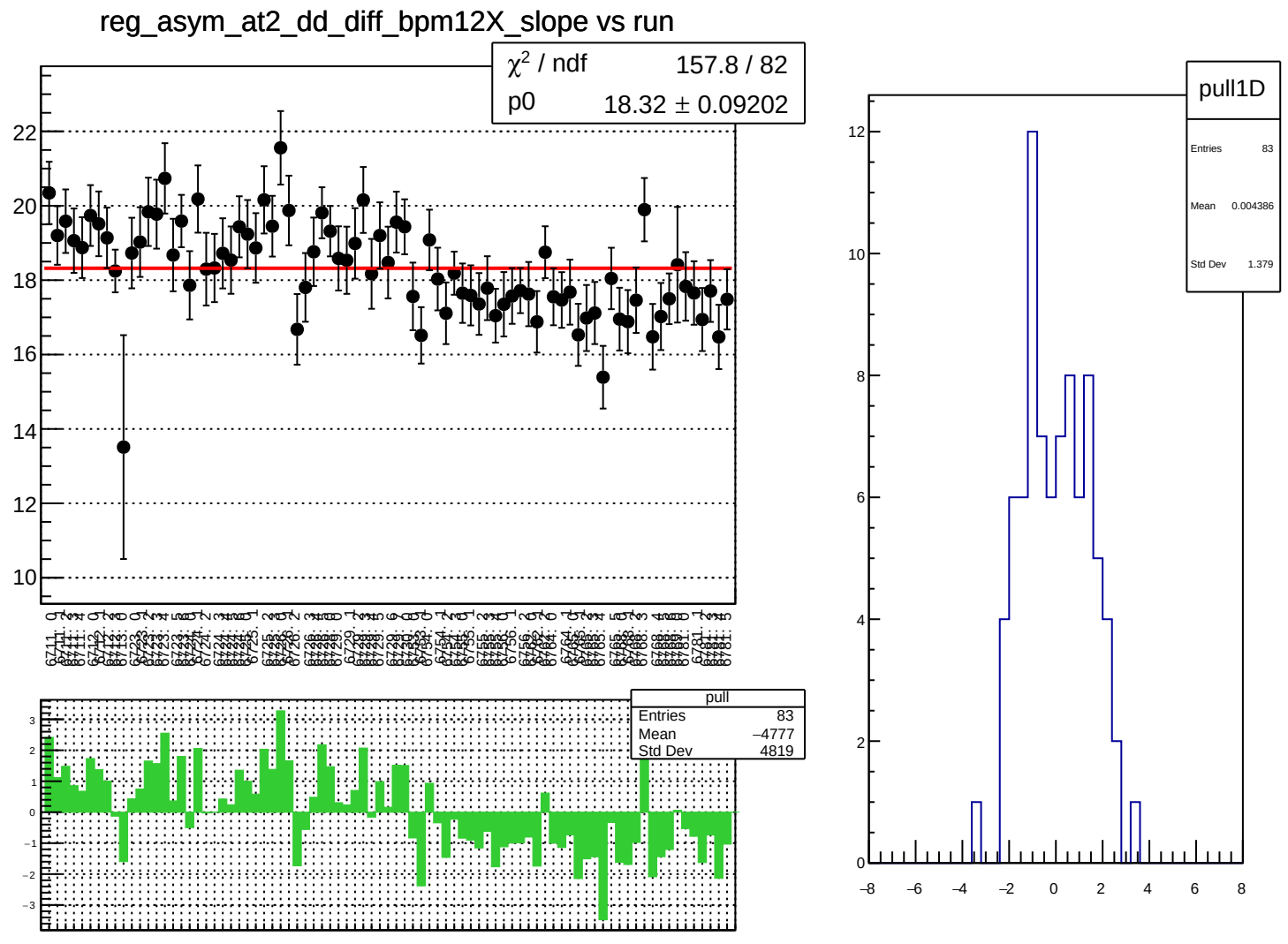

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.65 / 82
p0 2.439 ± 1.216
pull
Entries 83
Mean −36.39
Std Dev 77.26

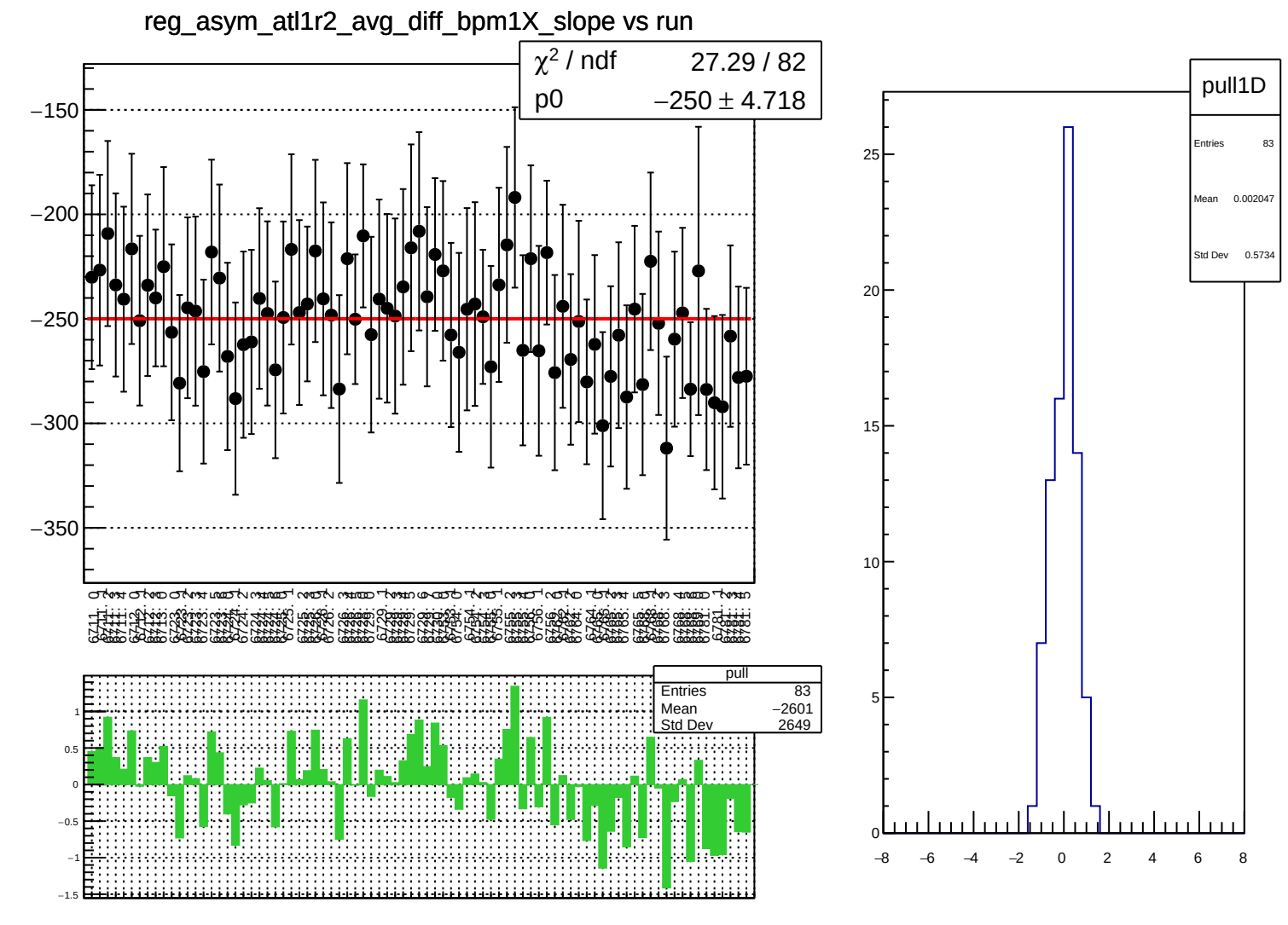

pull1D
Entries 83
Mean −0.0168
Std Dev 0.9418

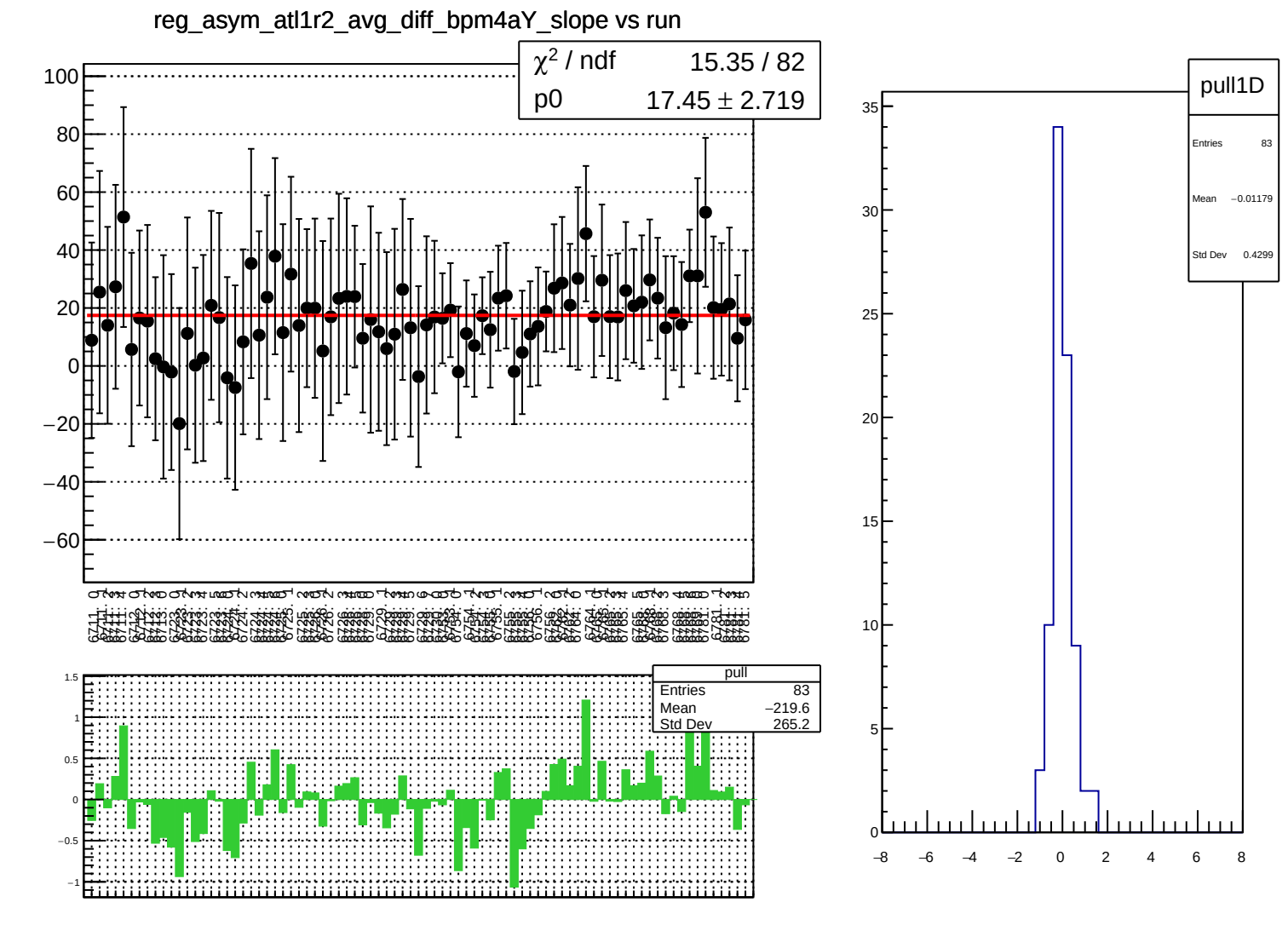

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 86.37 / 82
p0 50.97 ± 1.992
pull
Entries 83
Mean −77.35
Std Dev 111
pull1D
Entries 83
Mean 0.03069
Std Dev 1.02

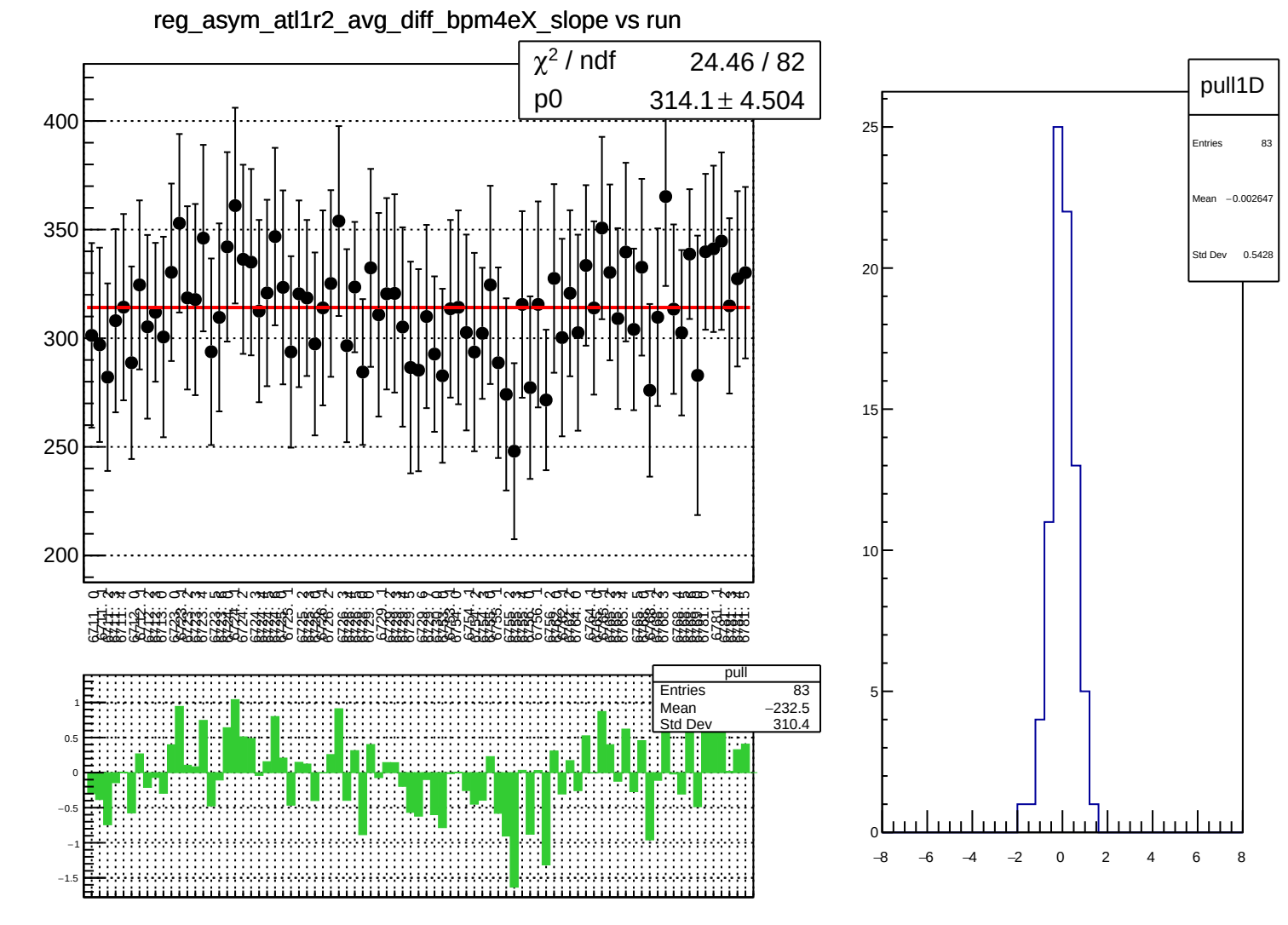

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.41 / 82
p0 −14.32 ± 1.558
pull
Entries 83
Mean −71.08
Std Dev 115.5

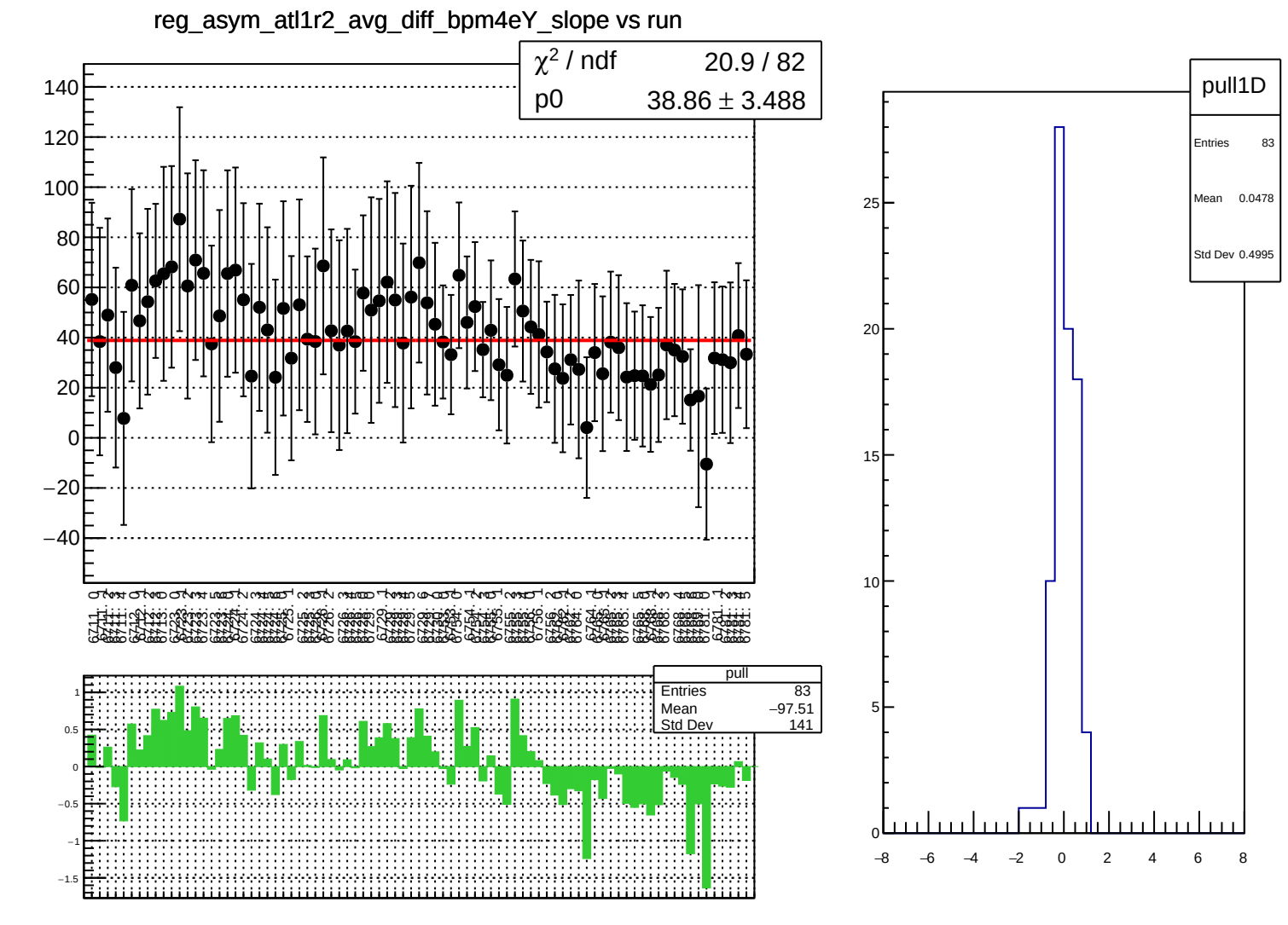

pull1D
Entries 83
Mean 0.02183
Std Dev 0.9273

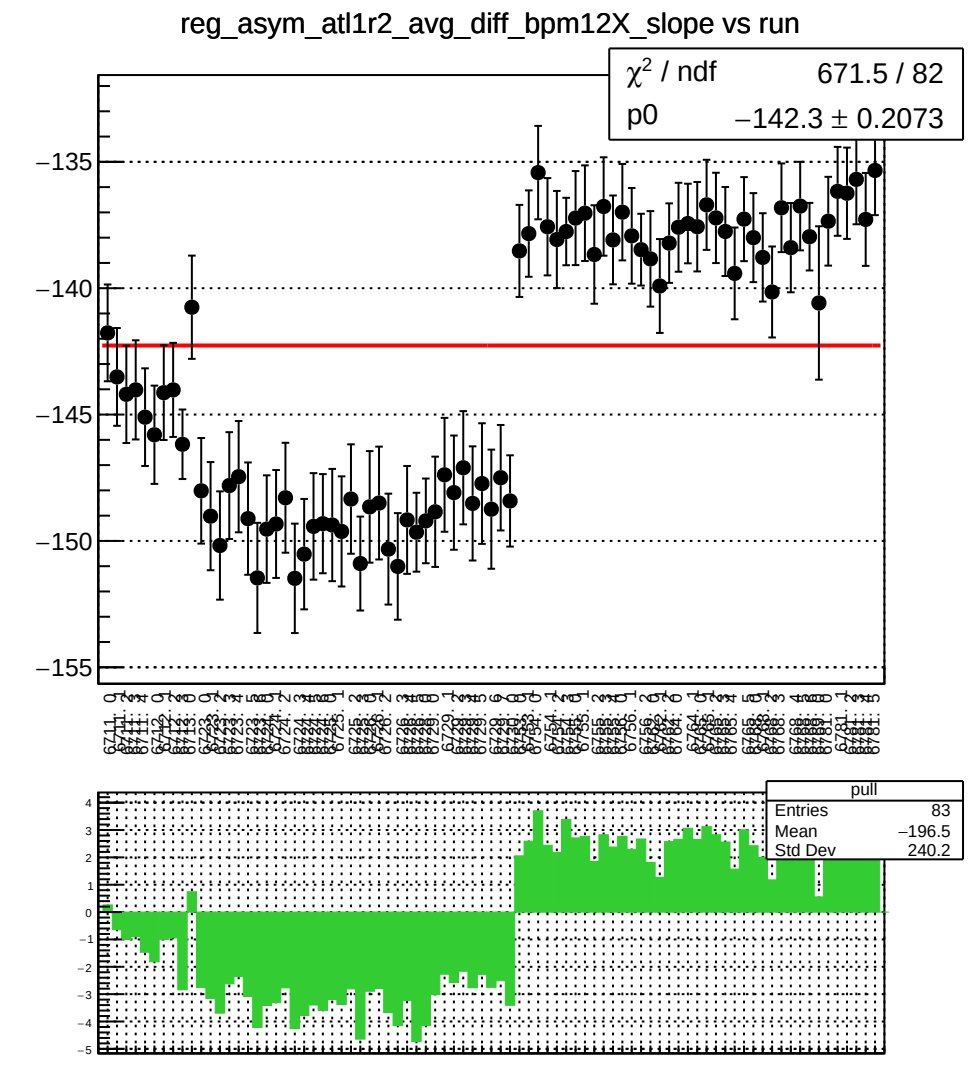

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 157.8 / 82
p0 18.32 ± 0.09202
pull
Entries 83
Mean −4777
Std Dev 4819
pull1D
Entries 83
Mean 0.004386
Std Dev 1.379

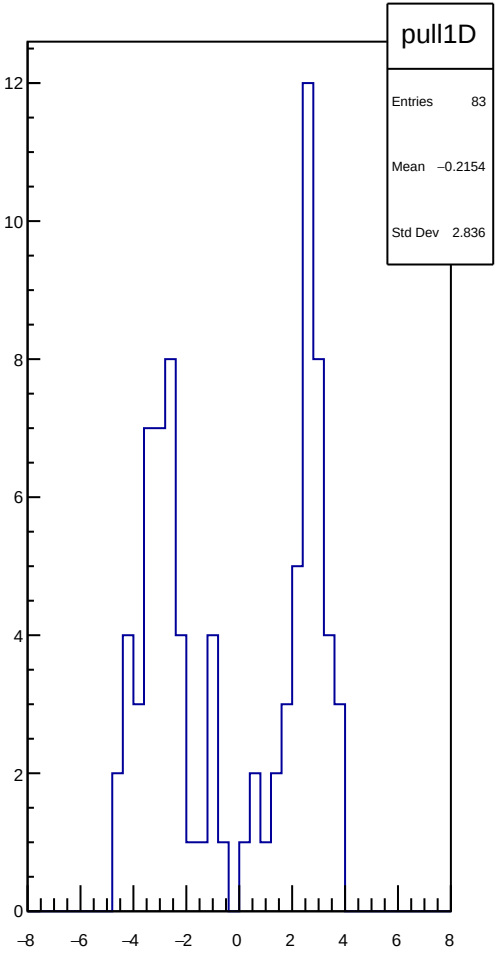

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 27.29 / 82
p0 −250 ± 4.718
−150
−200
−250
−300
−350
pull
Entries 83
Mean −2601
Std Dev 2649
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean 0.002047
Std Dev 0.5734
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

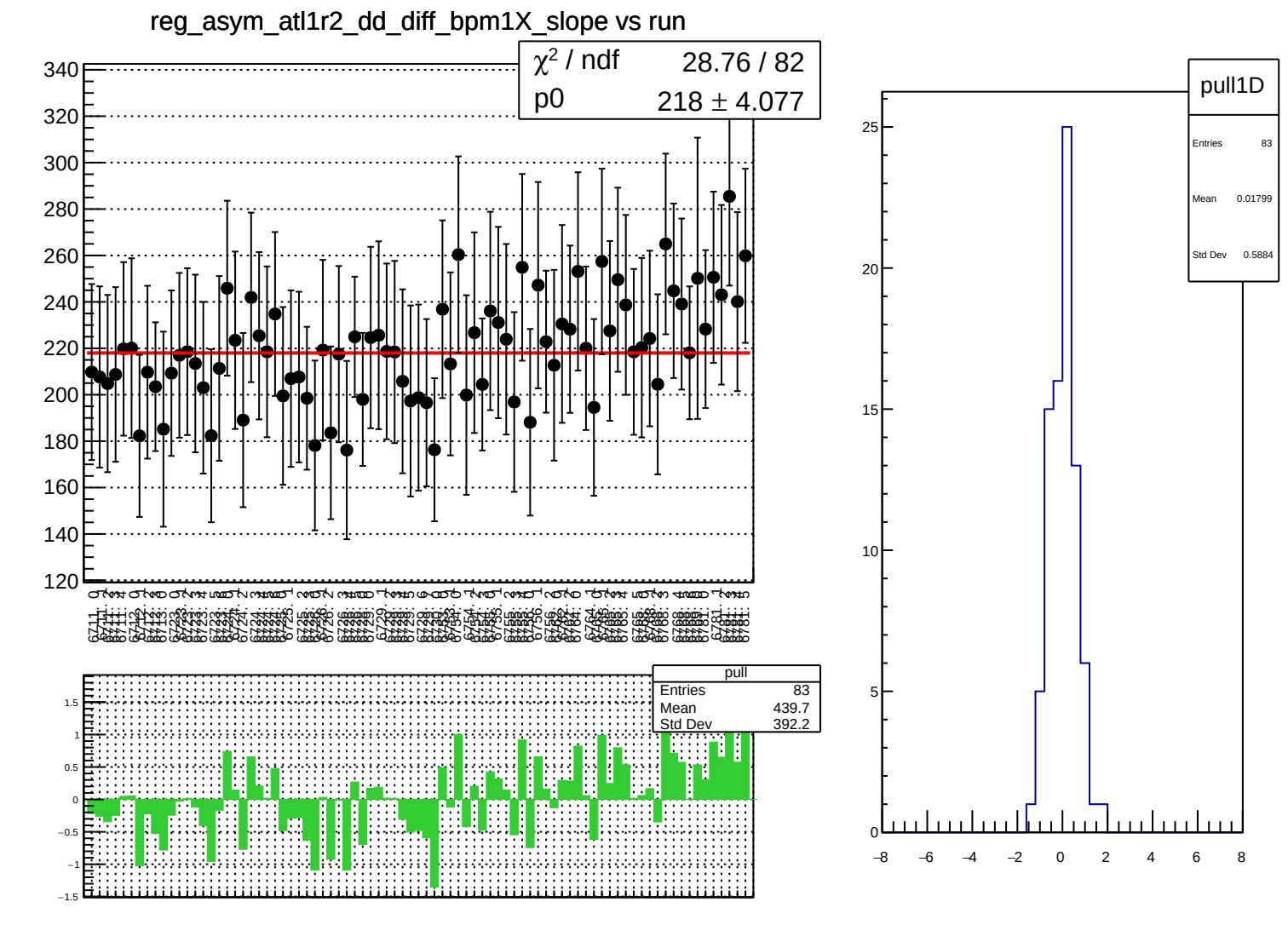

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.35 / 82
p0 17.45 ± 2.719
pull
Entries 83
Mean −219.6
Std Dev 265.2
pull1D
Entries 83
Mean −0.01179
Std Dev 0.4299

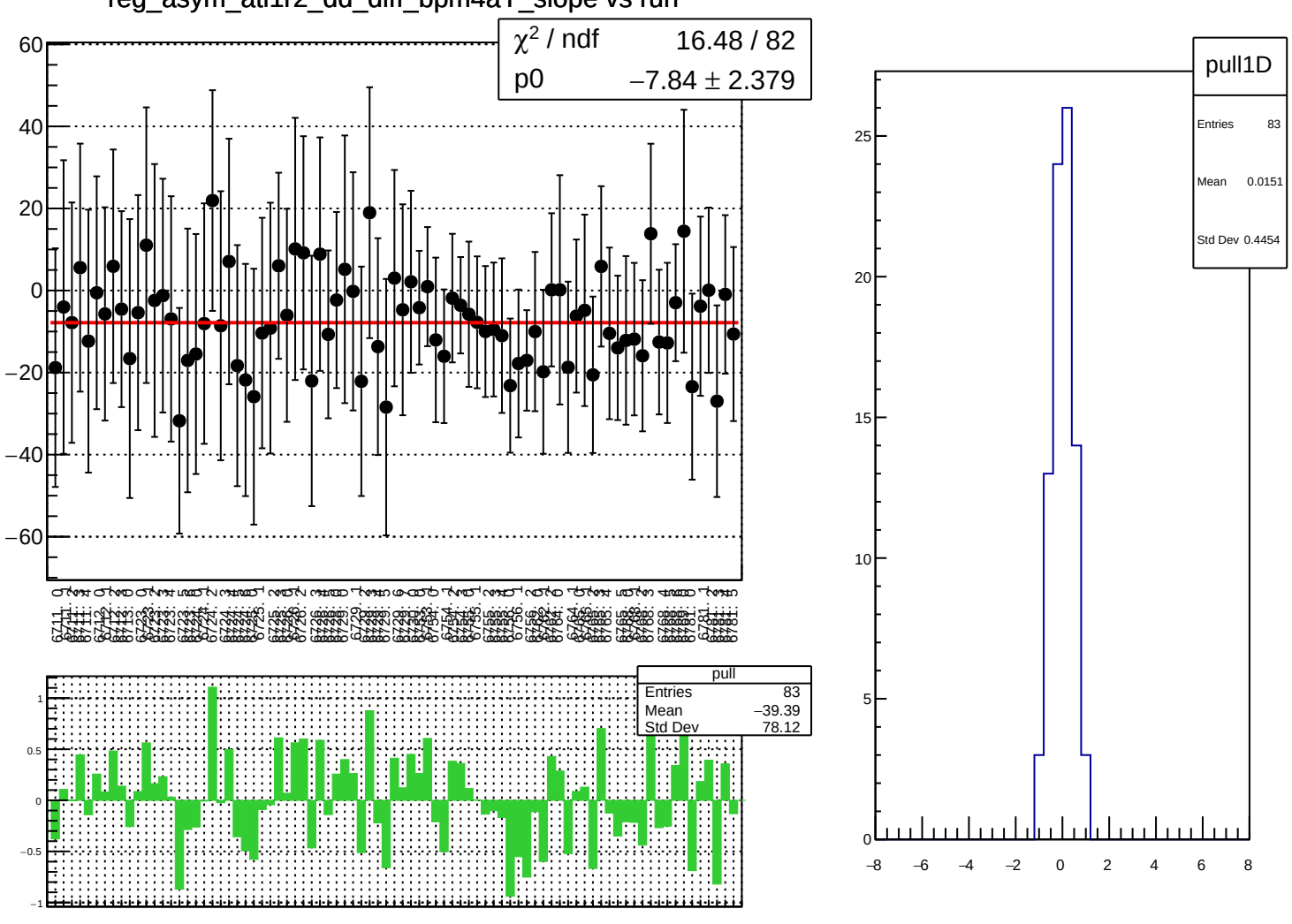

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.46 / 82
p0 314.1 ± 4.504
400
350
300
250
200
pull
Entries 83
Mean −232.5
Std Dev 310.4
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean −0.002647
Std Dev 0.5428
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

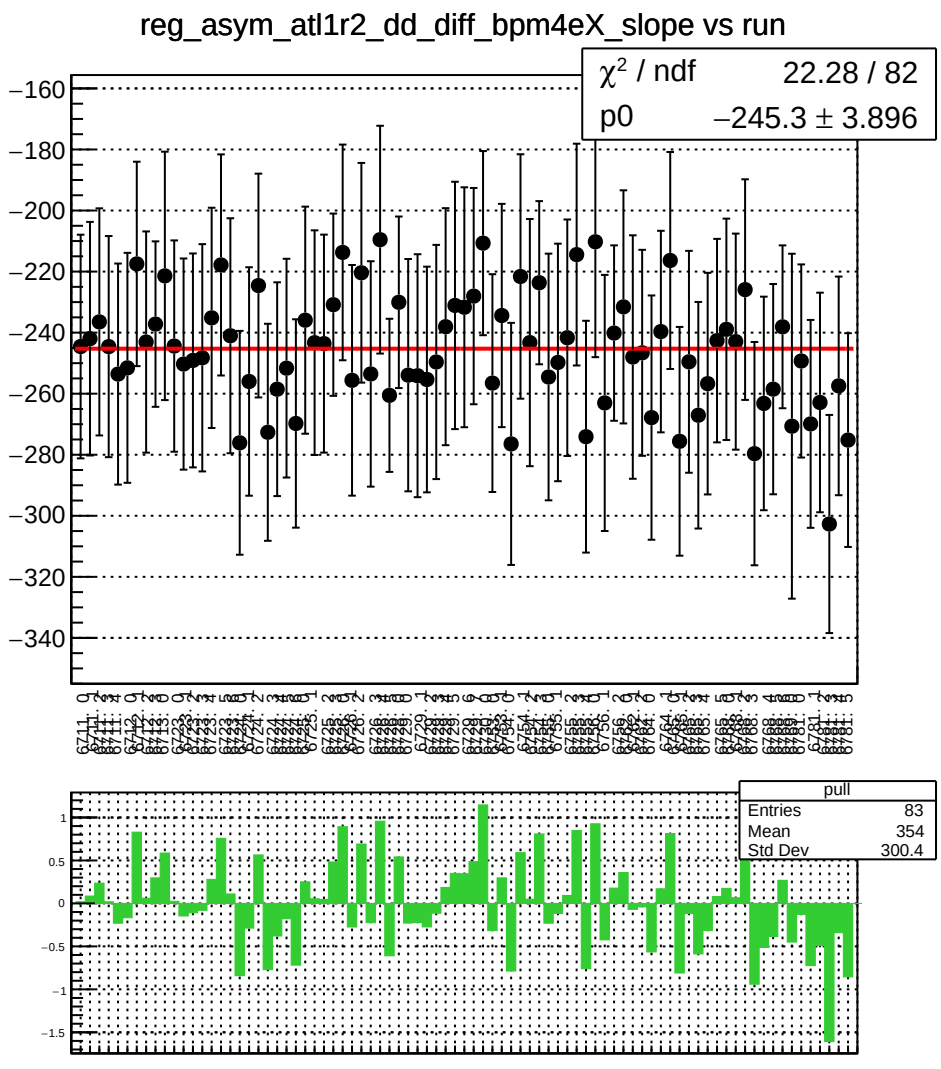

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.9 / 82
p0 38.86 ± 3.488
pull
Entries 83
Mean −97.51
Std Dev 141
pull1D
Entries 83
Mean 0.0478
Std Dev 0.4995

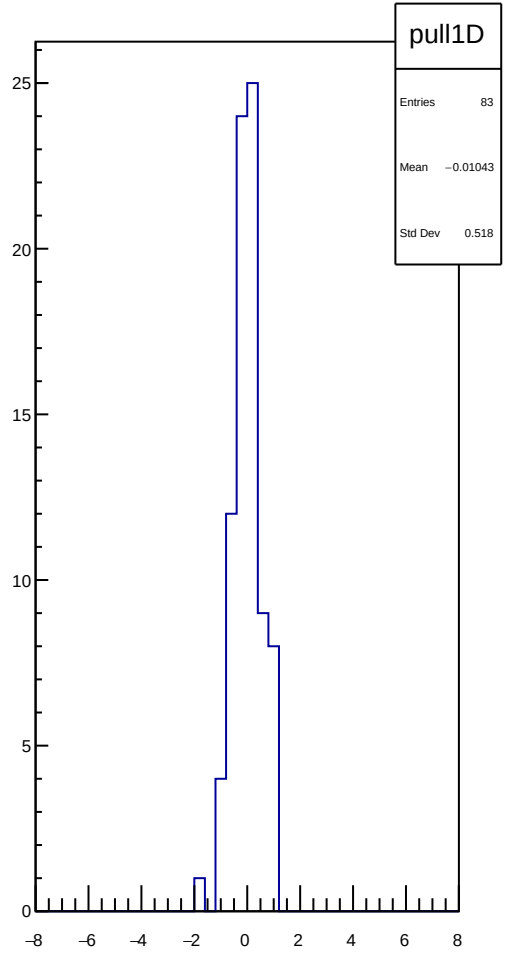

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 671.5 / 82
p0 −142.3 ± 0.2073
pull
Entries 83
Mean −196.5
Std Dev 240.2

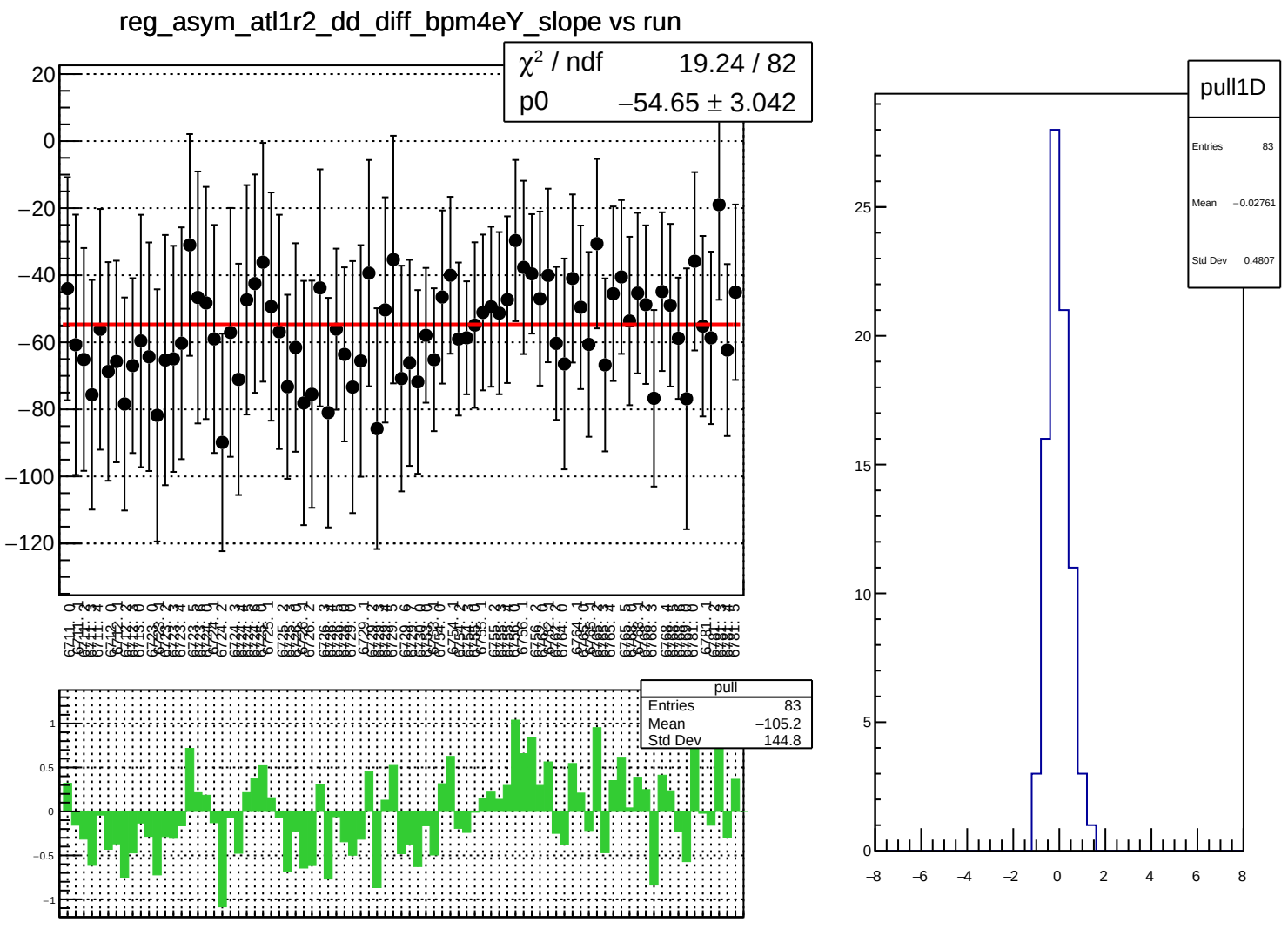

pull1D
Entries 83
Mean −0.2154
Std Dev 2.836

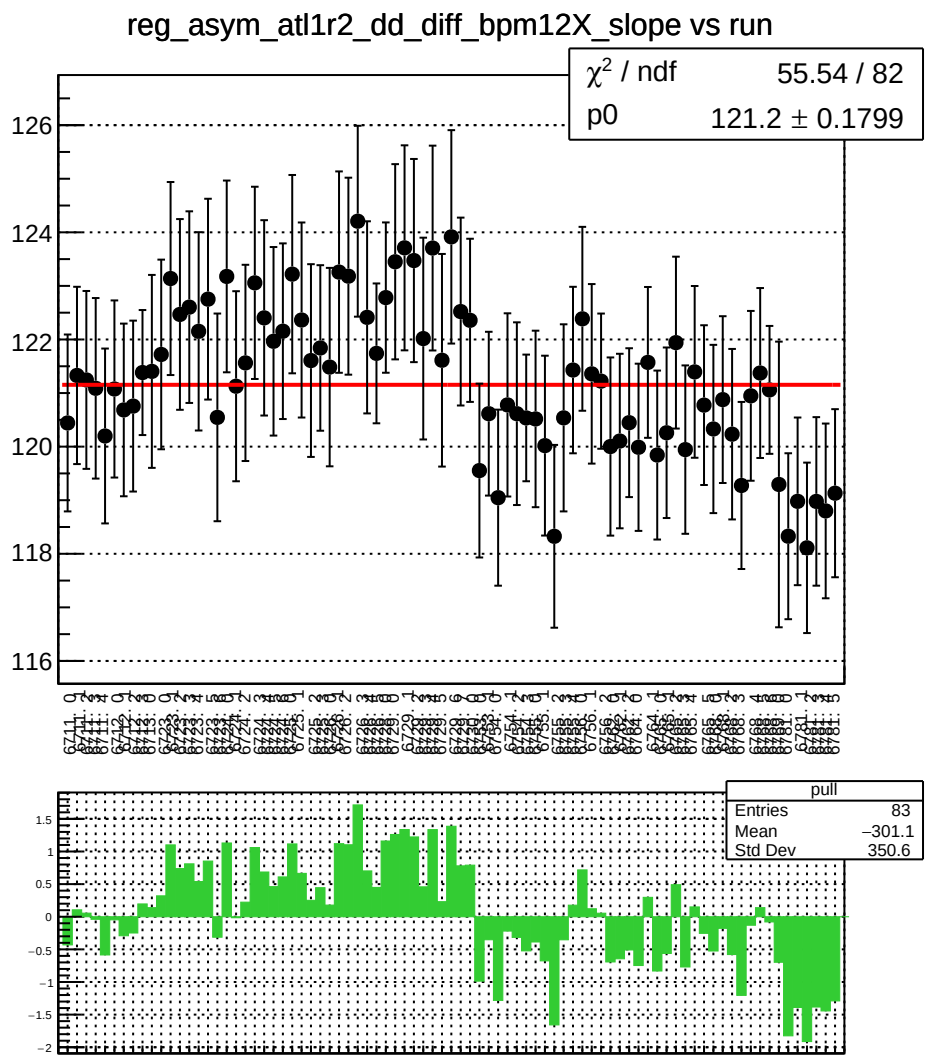

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 28.76 / 82
p0 218 ± 4.077
pull
Entries 83
Mean 439.7
Std Dev 392.2
pull1D
Entries 83
Mean 0.01799
Std Dev 0.5884

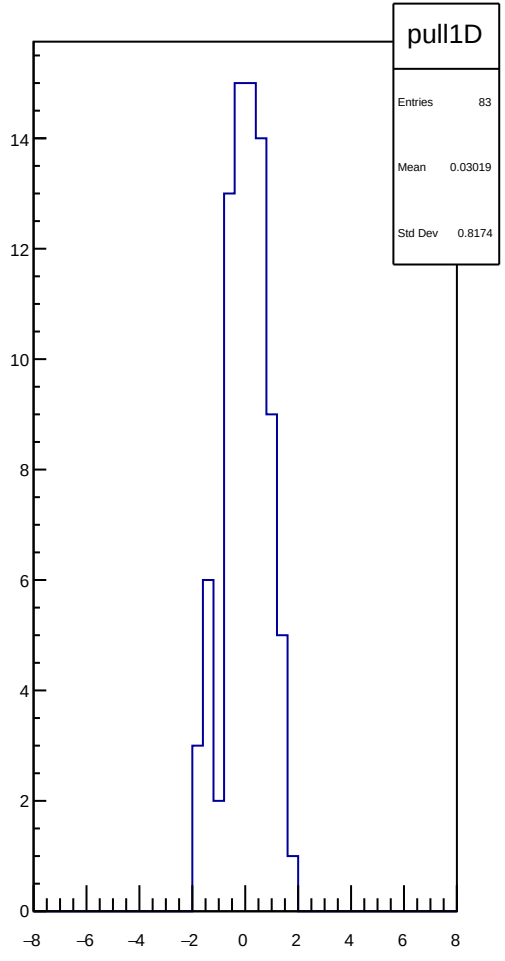

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.48 / 82
p0 −7.84 ± 2.379
pull
Entries 83
Mean −39.39
Std Dev 78.12
pull1D
Entries 83
Mean 0.0151
Std Dev 0.4454

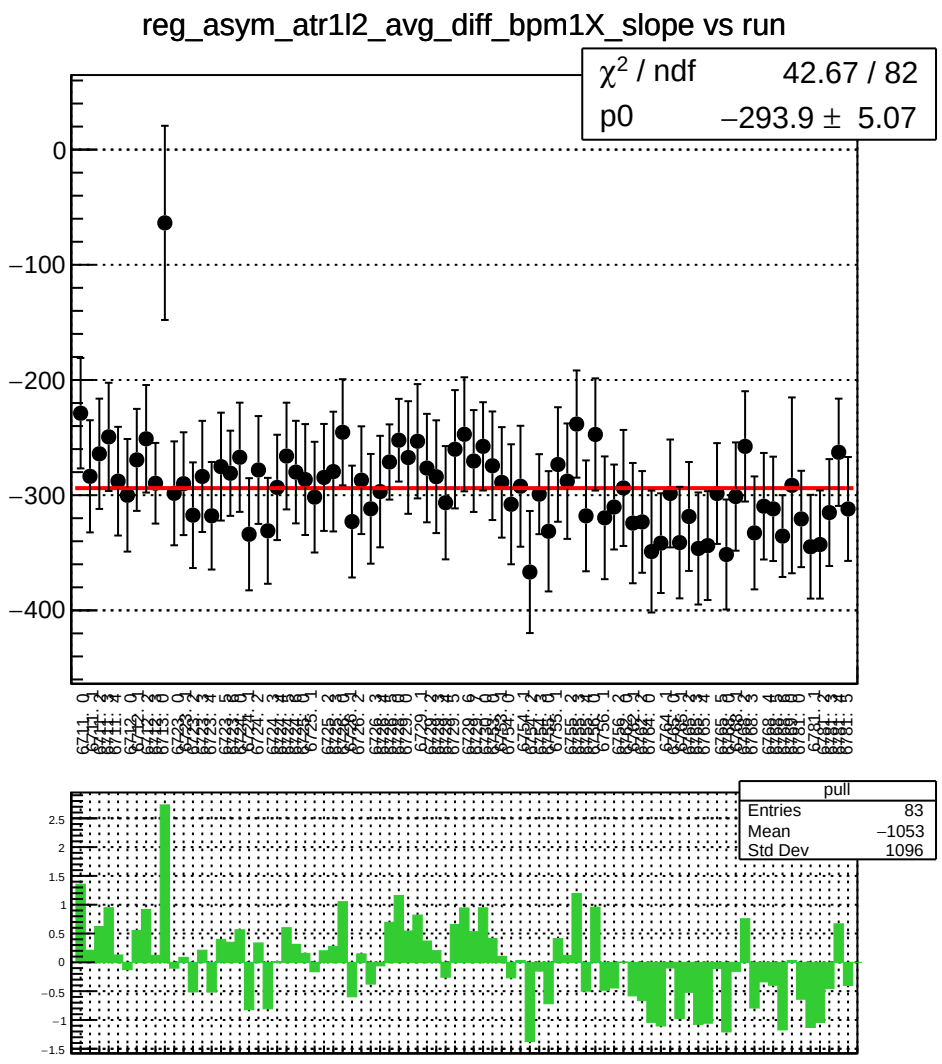

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.28 / 82
p0 −245.3 ± 3.896
pull
Entries 83
Mean 354
Std Dev 300.4

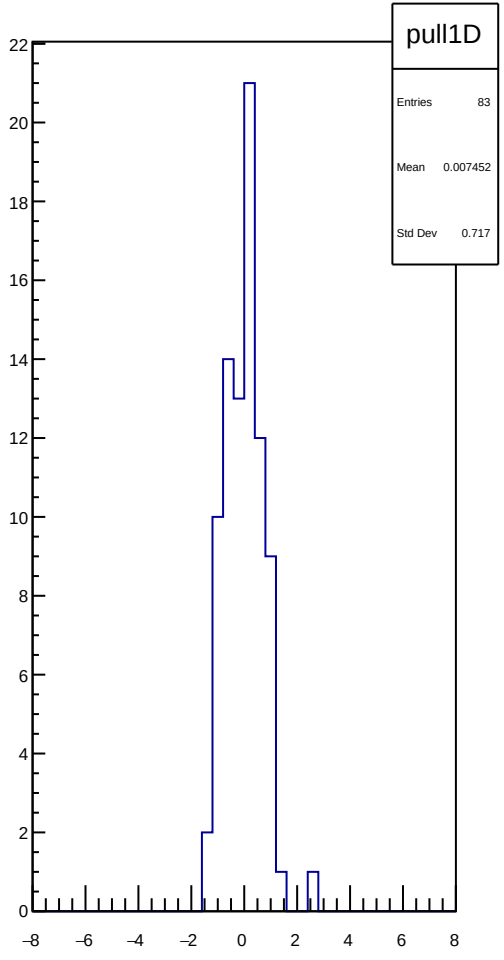

pull1D
Entries 83
Mean −0.01043
Std Dev 0.518

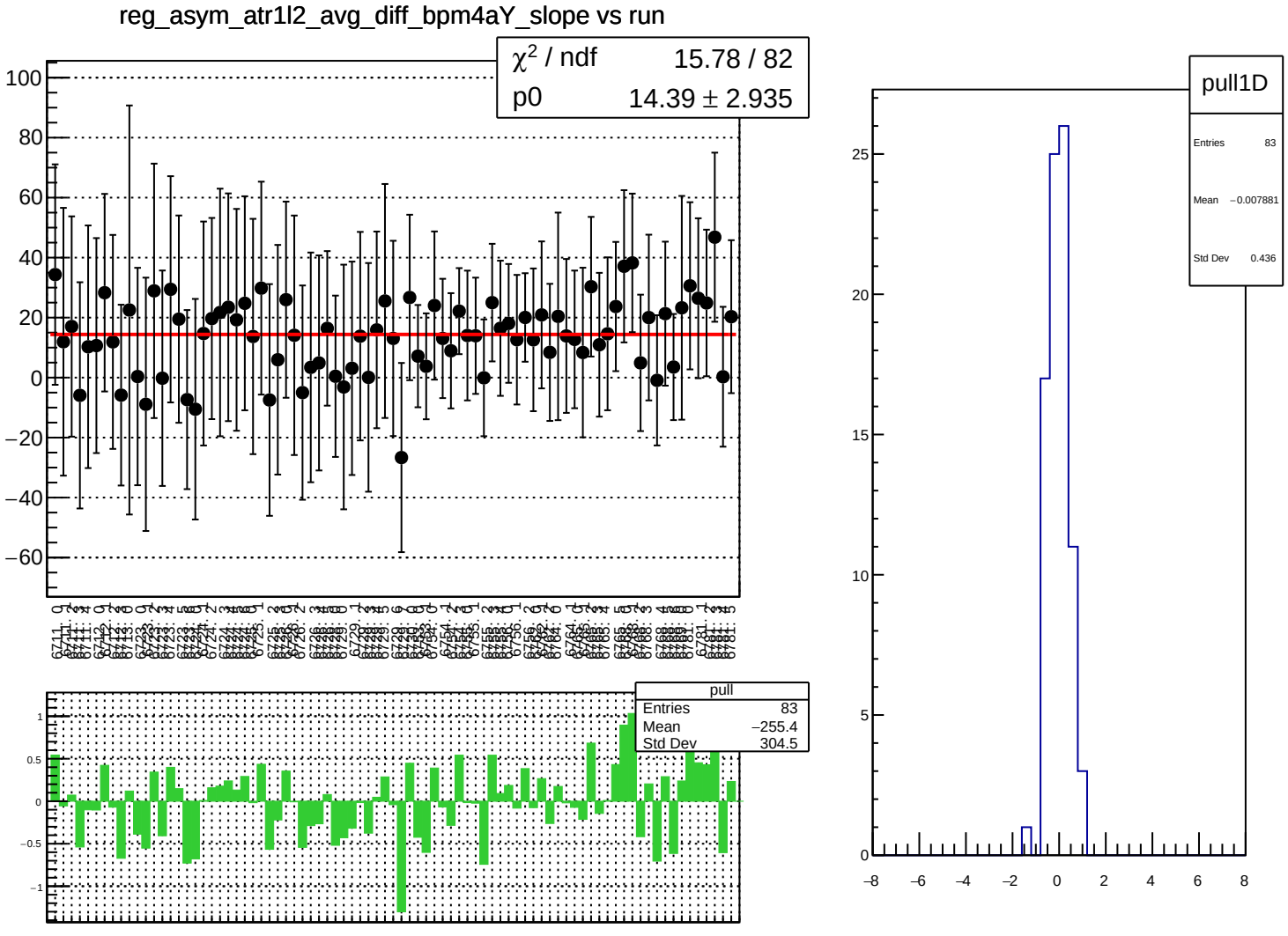

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.24 / 82
p0 −54.65 ± 3.042
pull
Entries 83
Mean −105.2
Std Dev 144.8
pull1D
Entries 83
Mean −0.02761
Std Dev 0.4807

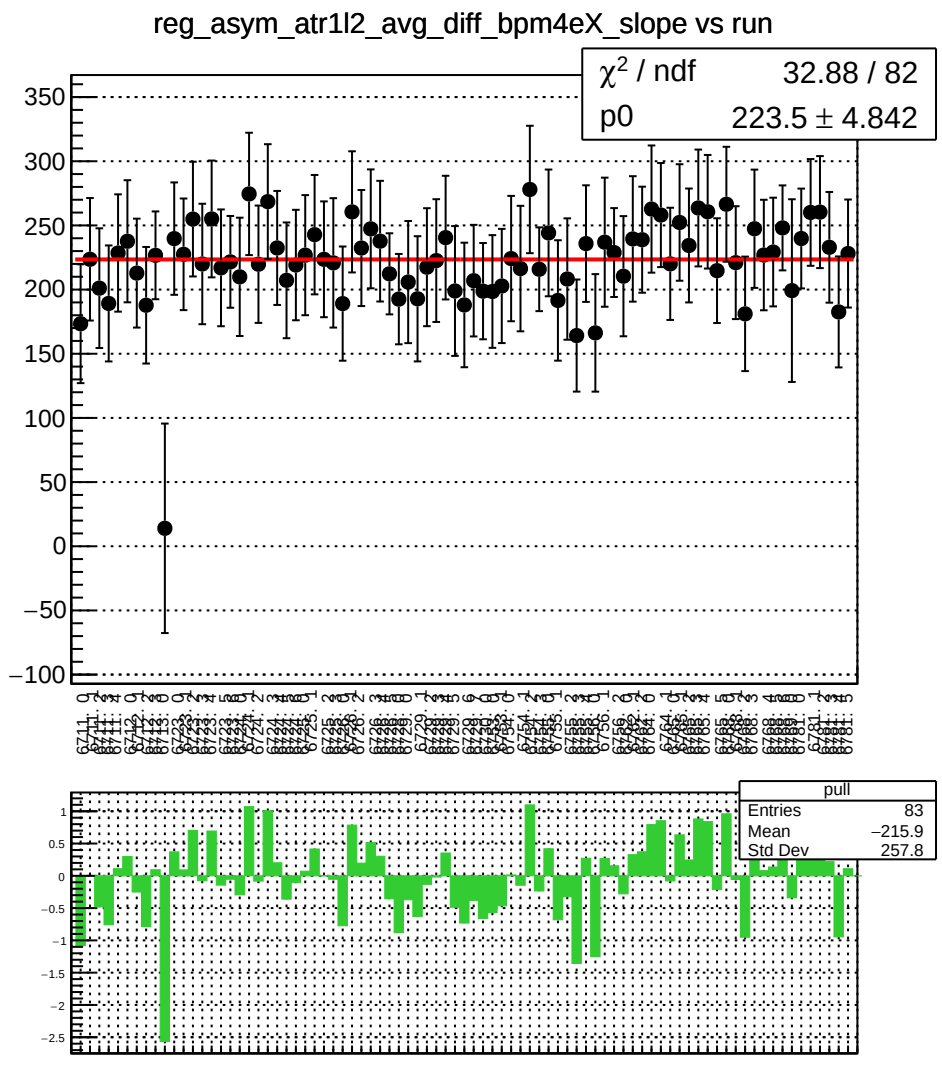

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 55.54 / 82
p0 121.2 ± 0.1799
126
124
122
120
118
116
pull
Entries 83
Mean −301.1
Std Dev 350.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

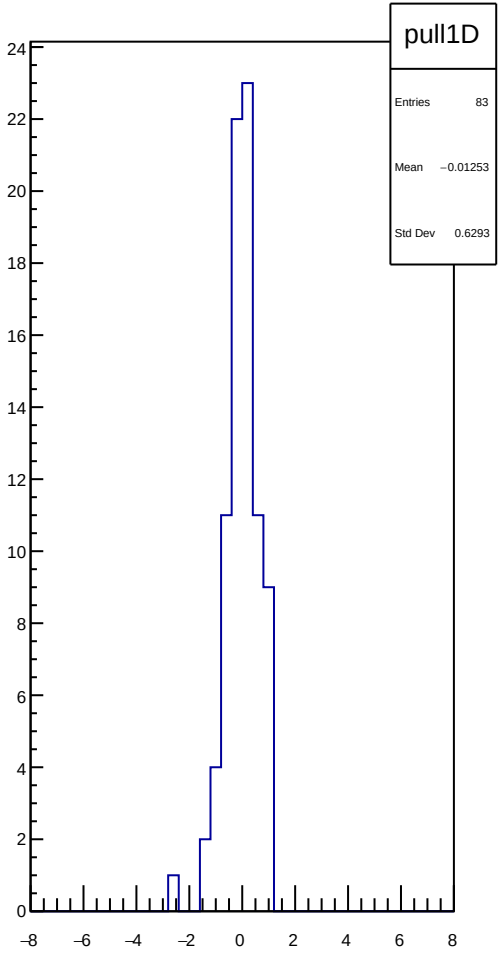

pull1D
Entries 83
Mean 0.03019
Std Dev 0.8174
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

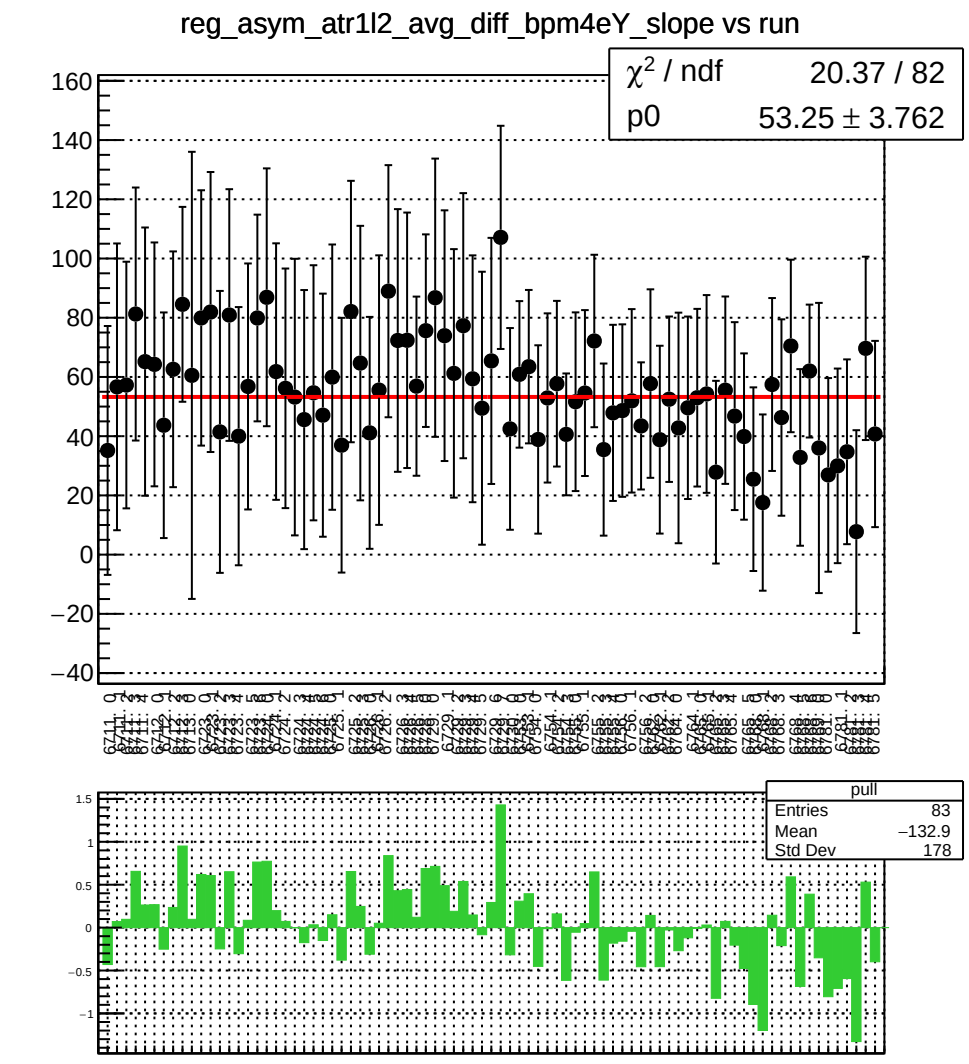

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 42.67 / 82
p0 −293.9 ± 5.07
0
−100
−200
−300
−400
pull
Entries 83
Mean −1053
Std Dev 1096
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

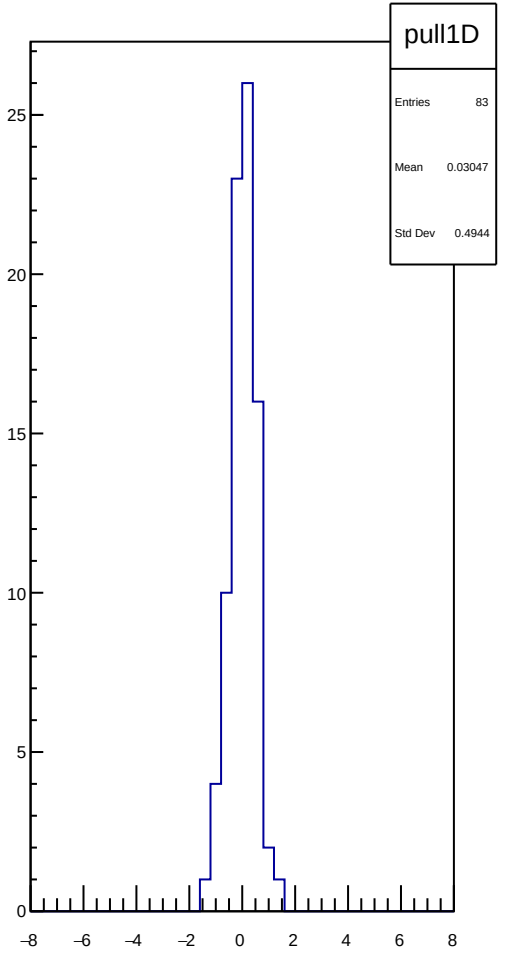

pull1D
Entries 83
Mean 0.007452
Std Dev 0.717
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

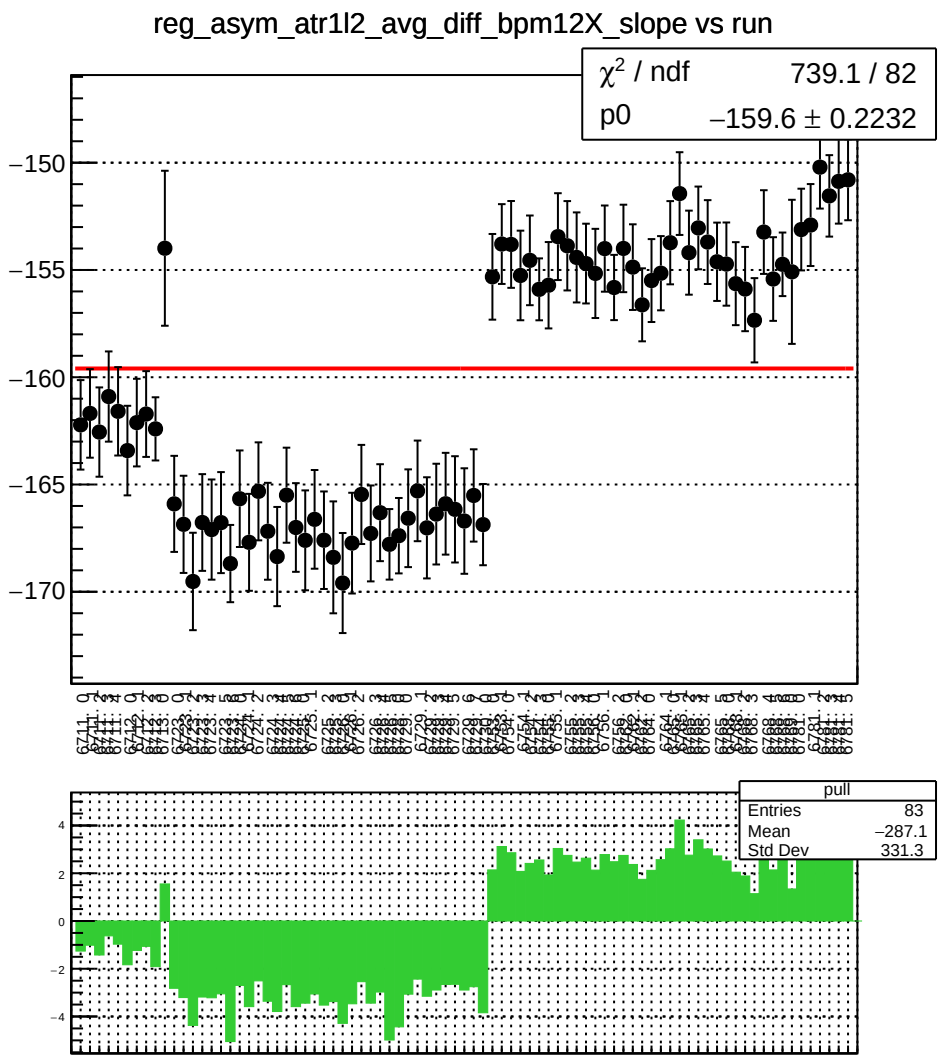

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.78 / 82
p0 14.39 ± 2.935
pull
Entries 83
Mean −255.4
Std Dev 304.5
pull1D
Entries 83
Mean −0.007881
Std Dev 0.436

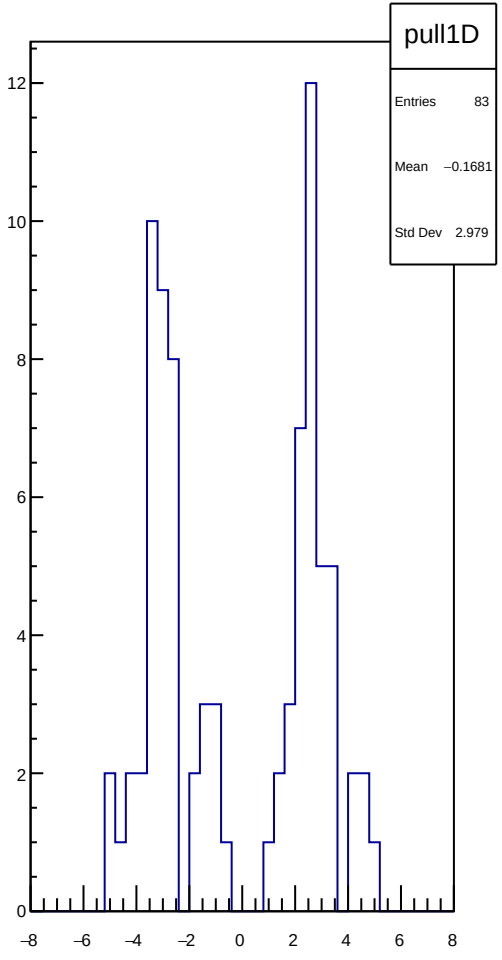

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.88 / 82
p0 223.5 ± 4.842
pull
Entries 83
Mean −215.9
Std Dev 257.8

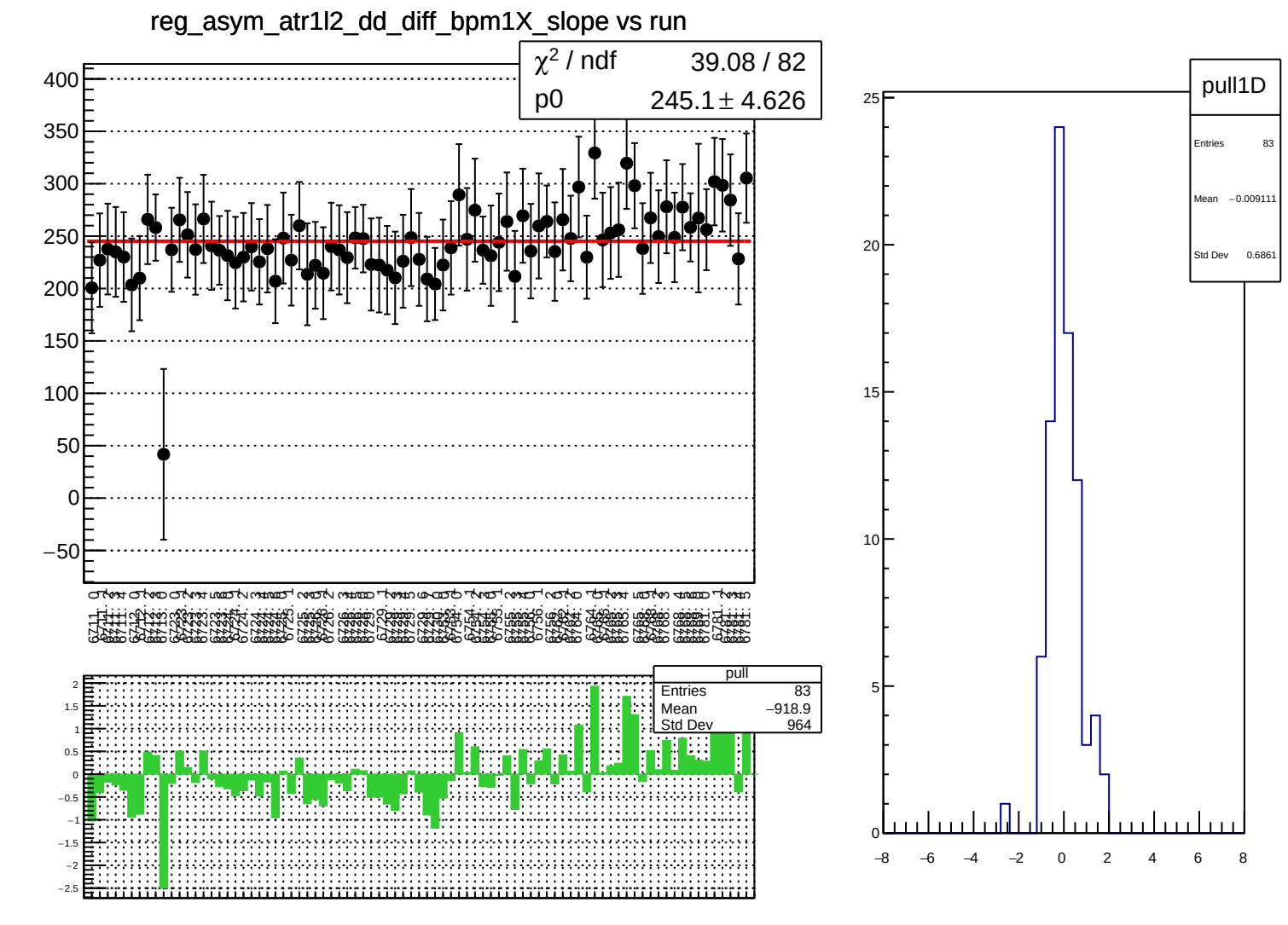

pull1D
Entries 83
Mean −0.01253
Std Dev 0.6293

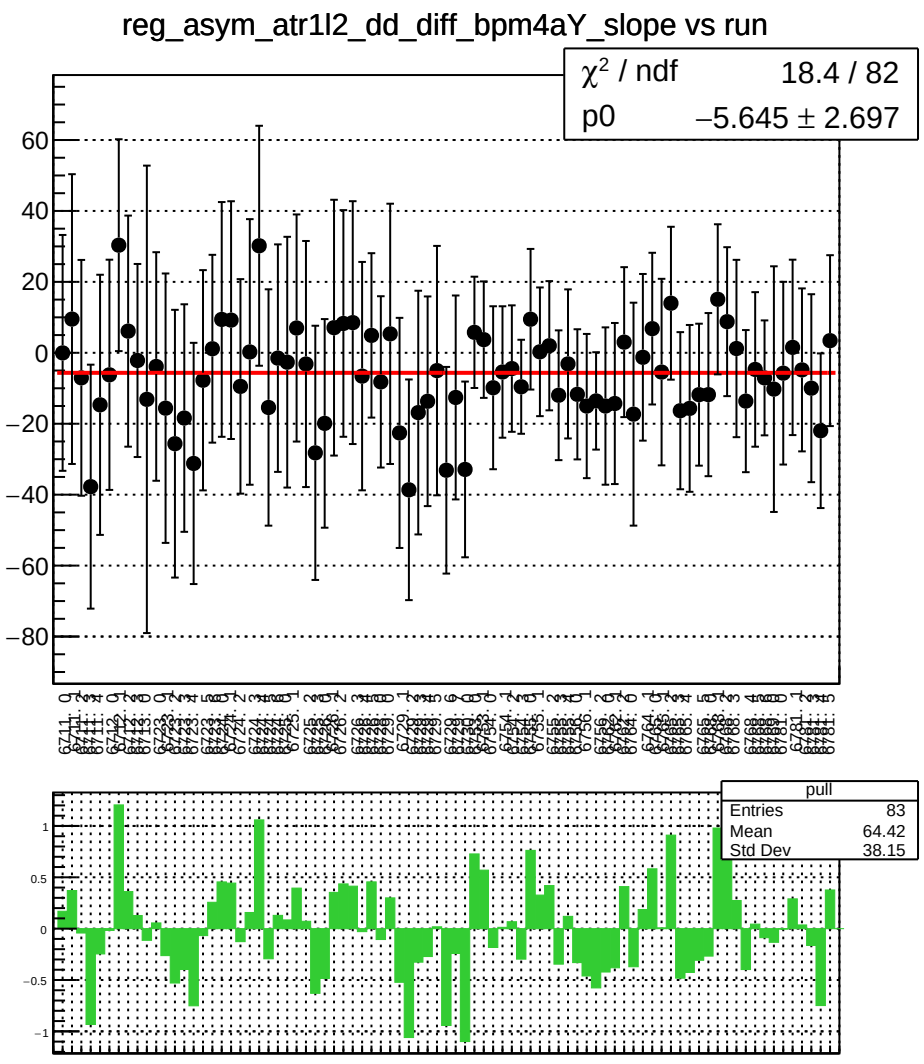

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.37 / 82
p0 53.25 ± 3.762
pull
Entries 83
Mean −132.9
Std Dev 178

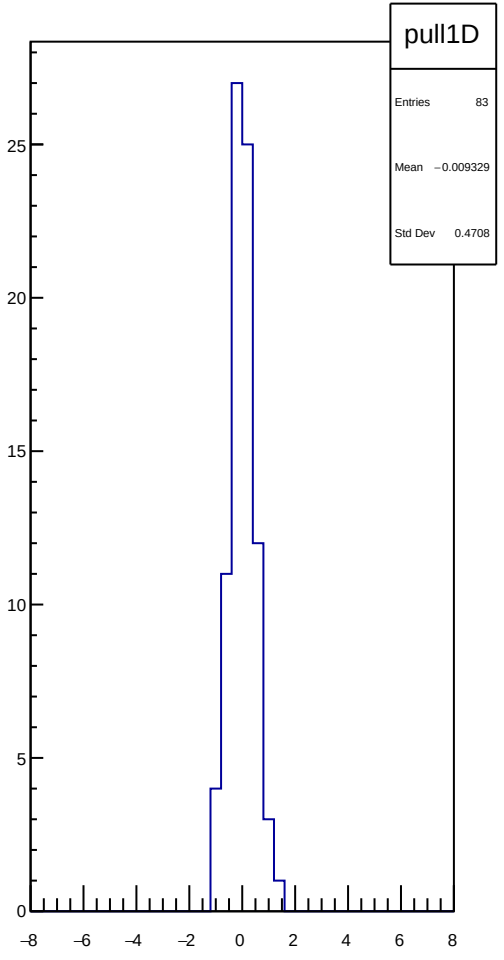

pull1D
Entries 83
Mean 0.03047
Std Dev 0.4944

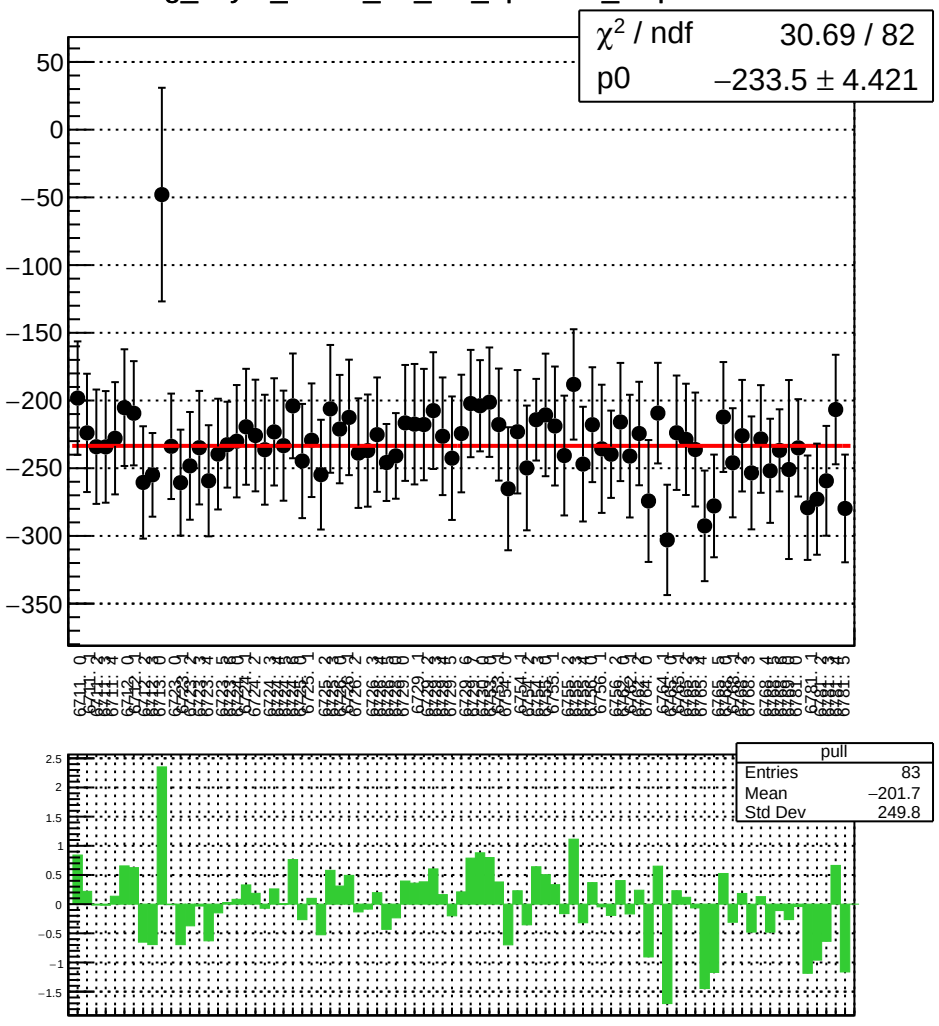

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 739.1 / 82
p0 −159.6 ± 0.2232
−150
−155
−160
−165
−170
pull
Entries 83
Mean −287.1
Std Dev 331.3
4
2
0
−2
−4

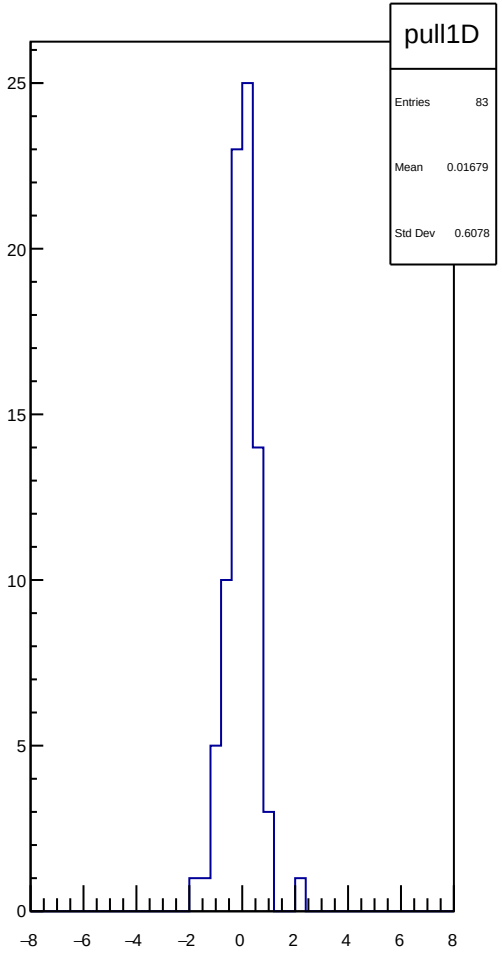

pull1D
Entries 83
Mean −0.1681
Std Dev 2.979
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

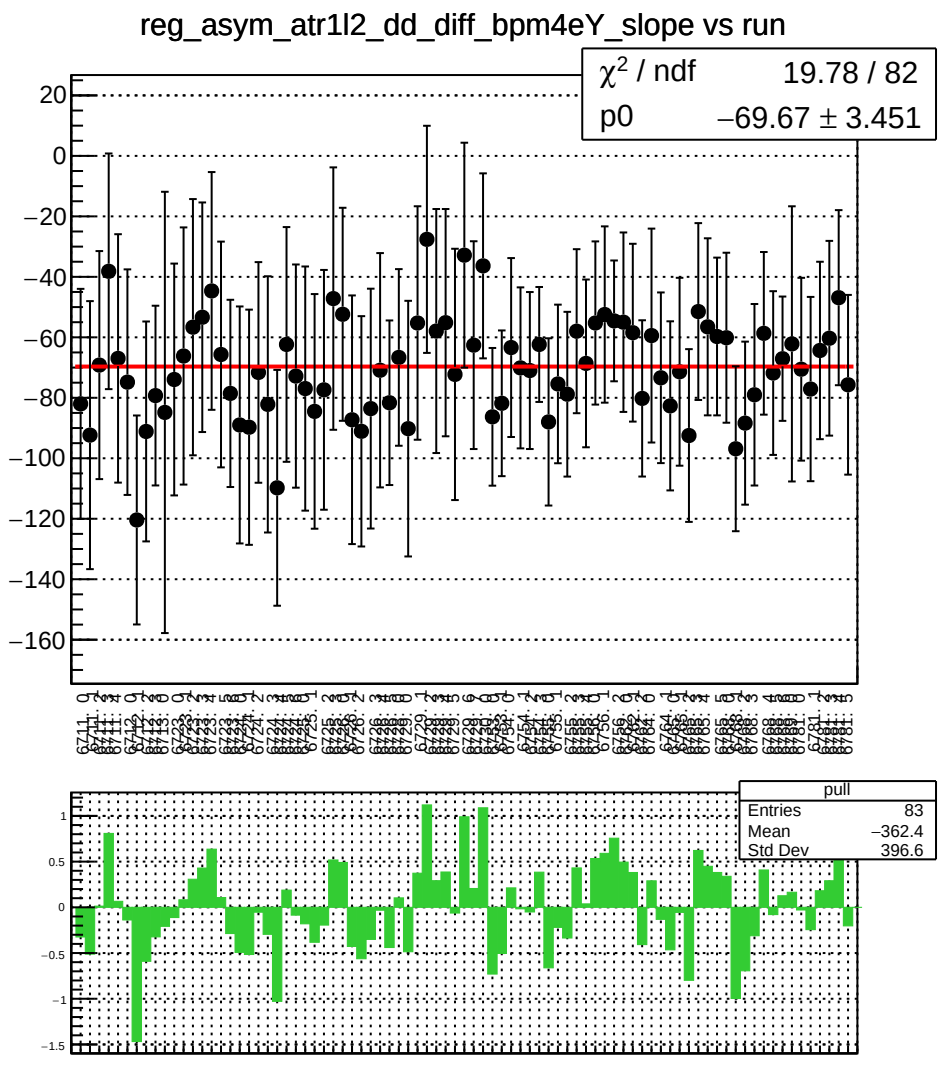

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 39.08 / 82
p0 245.1 ± 4.626
pull
Entries 83
Mean −918.9
Std Dev 964
pull1D
Entries 83
Mean −0.009111
Std Dev 0.6861

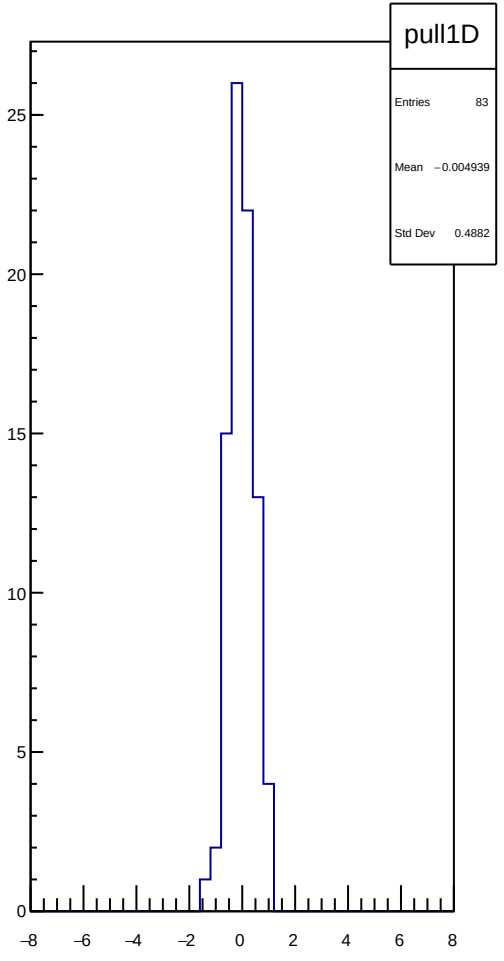

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.4 / 82
p0 −5.645 ± 2.697
pull
Entries 83
Mean 64.42
Std Dev 38.15

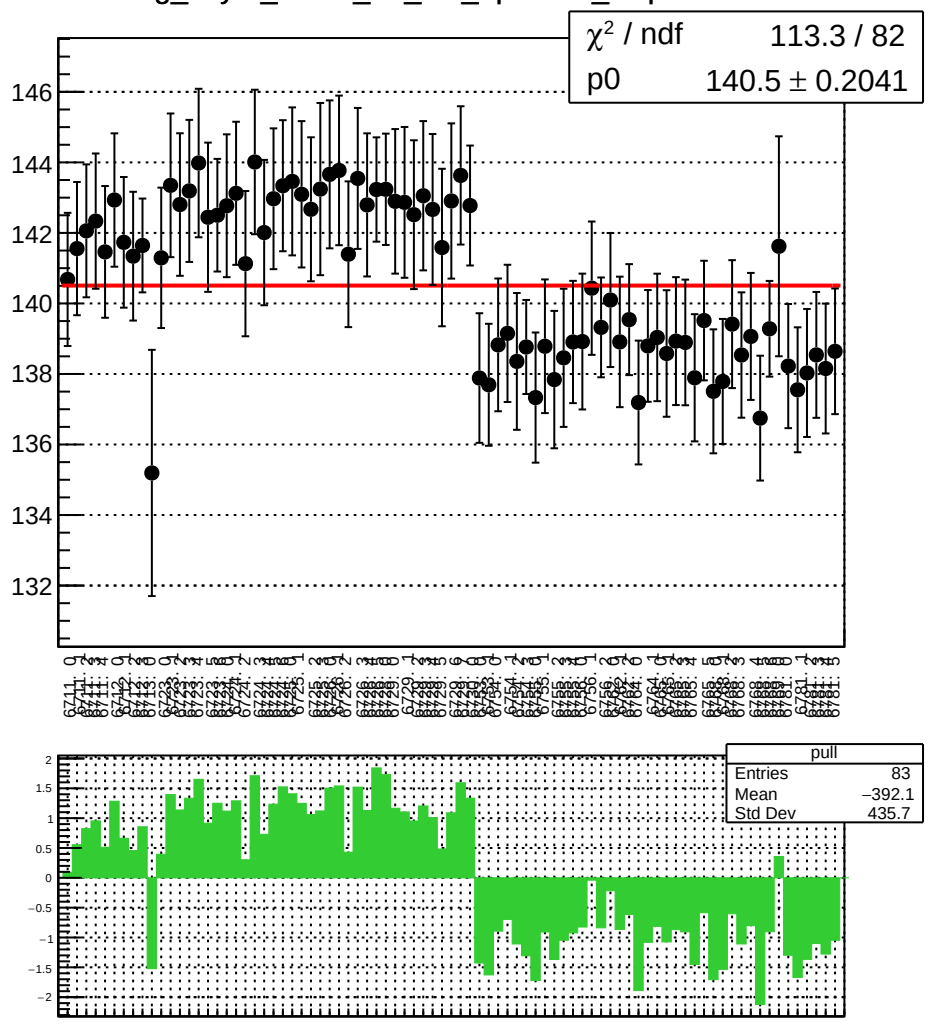

pull1D
Entries 83
Mean −0.009329
Std Dev 0.4708

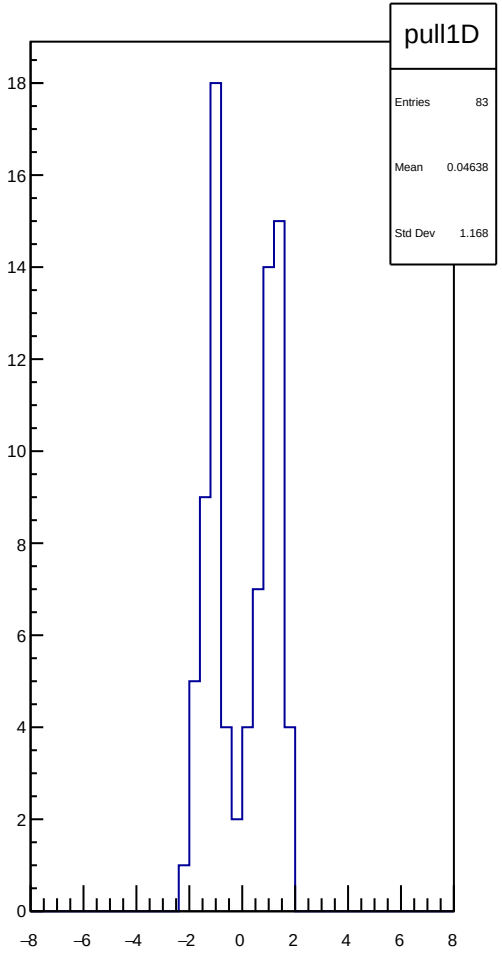

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.69 / 82
p0 −233.5 ± 4.421
pull
Entries 83
Mean −201.7
Std Dev 249.8

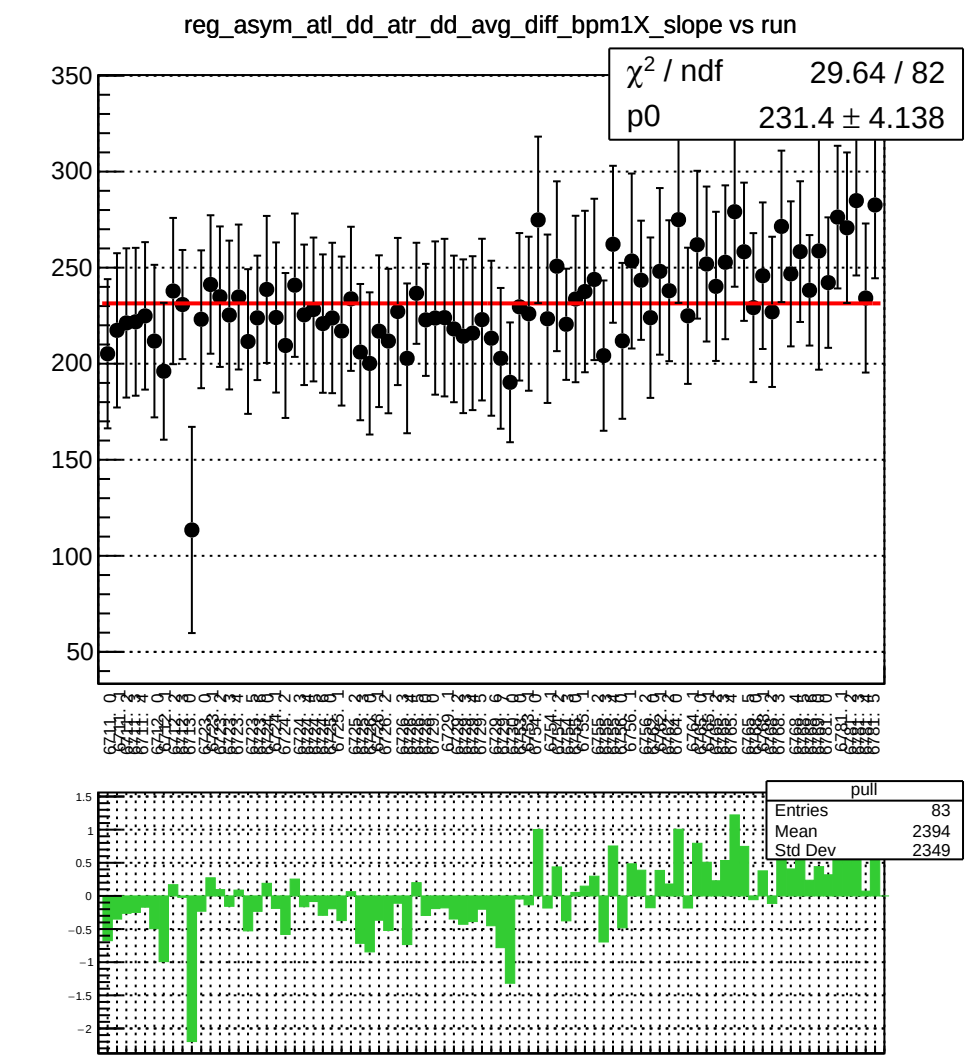

pull1D
Entries 83
Mean 0.01679
Std Dev 0.6078

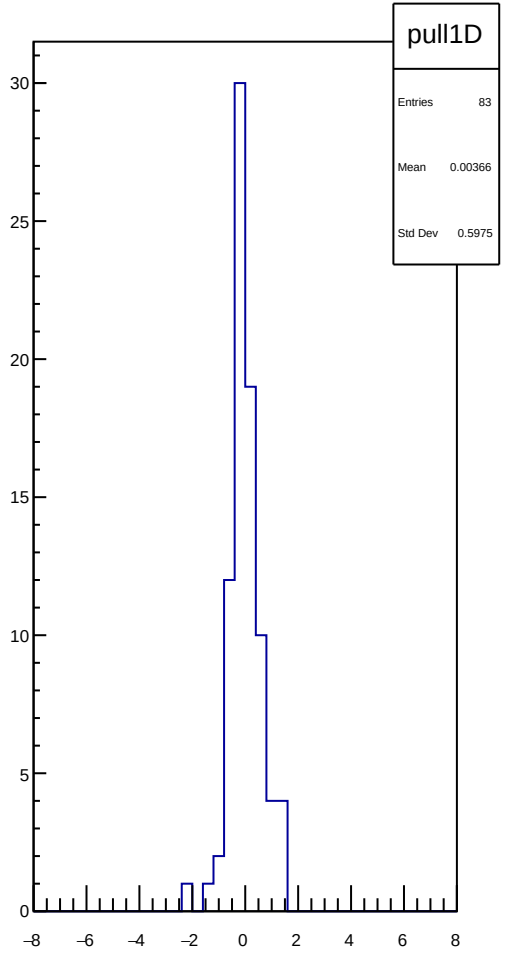

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.78 / 82
p0 −69.67 ± 3.451
pull
Entries 83
Mean −362.4
Std Dev 396.6

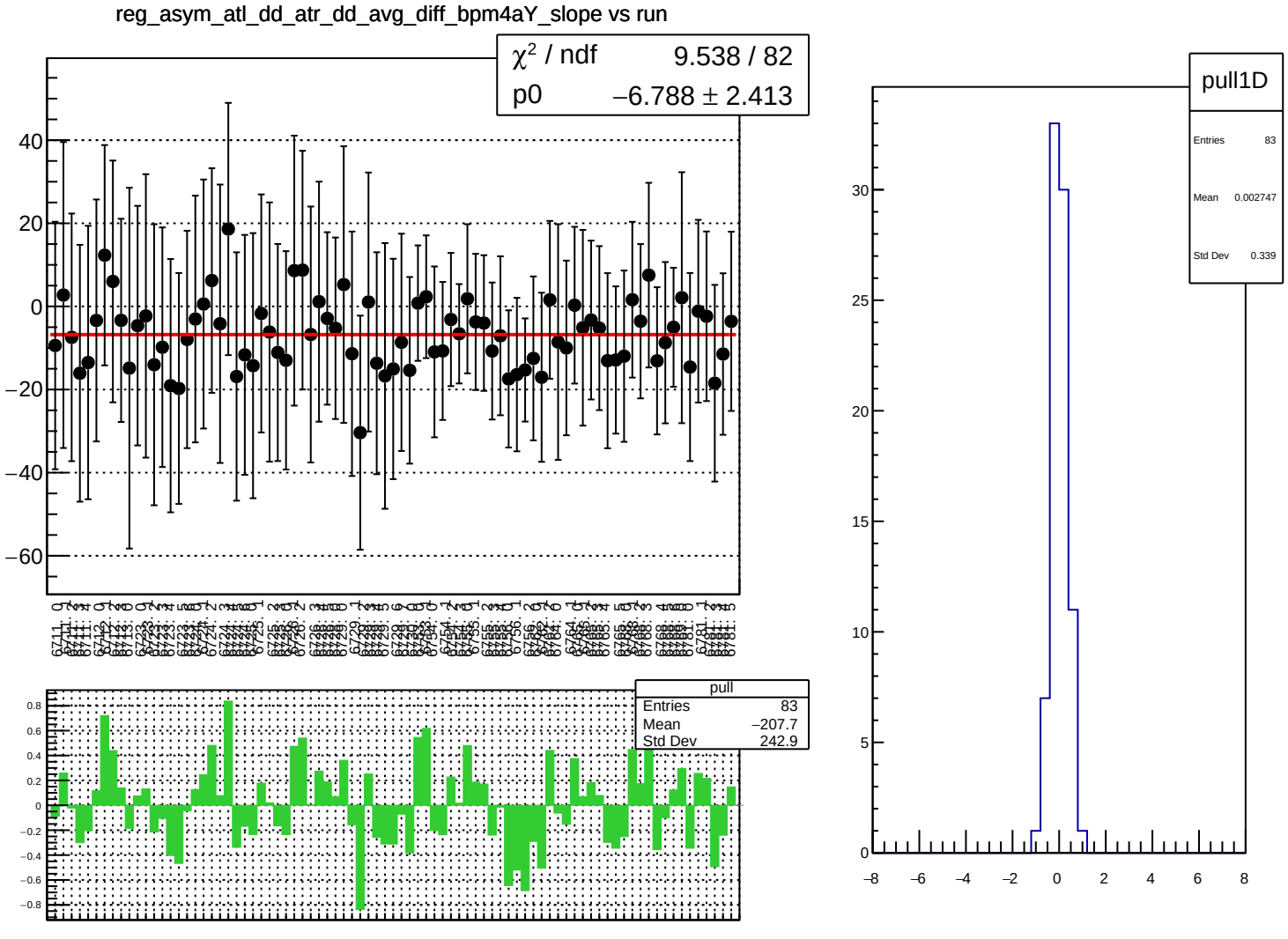

pull1D
Entries 83
Mean −0.004939
Std Dev 0.4882

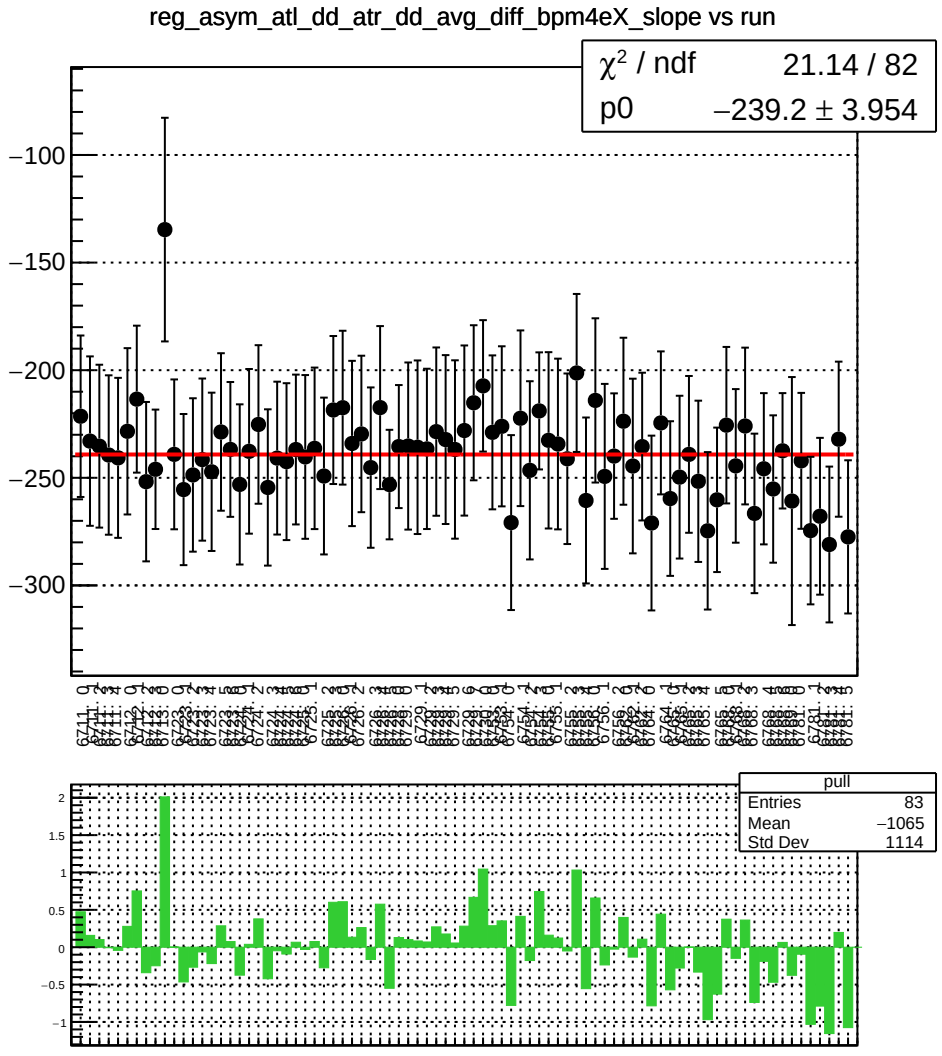

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 113.3 / 82
p0 140.5 ± 0.2041
pull
Entries 83
Mean −392.1
Std Dev 435.7

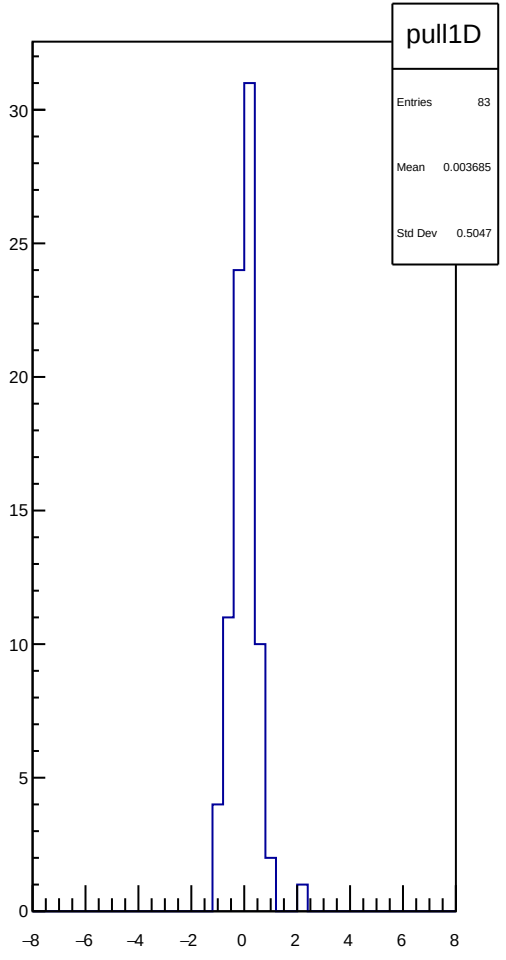

pull1D
Entries 83
Mean 0.04638
Std Dev 1.168

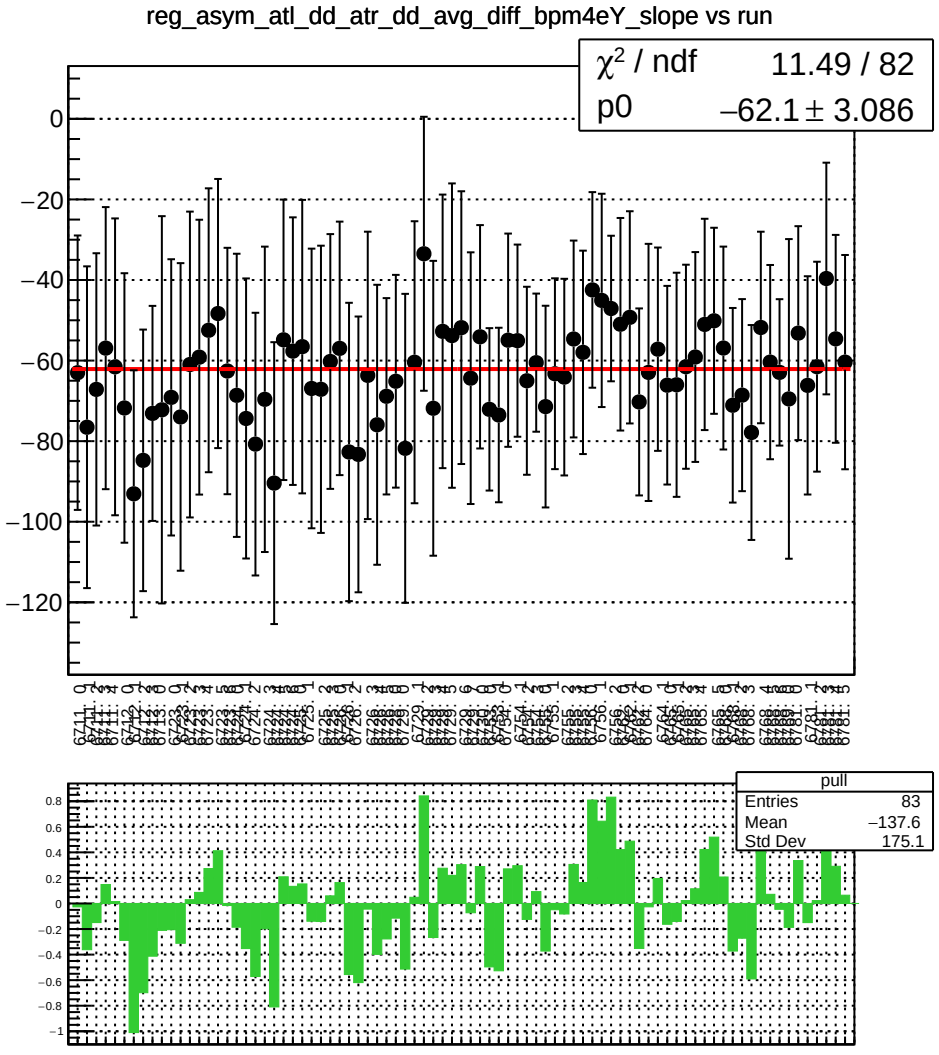

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 29.64 / 82
p0 231.4 ± 4.138
pull
Entries 83
Mean 2394
Std Dev 2349

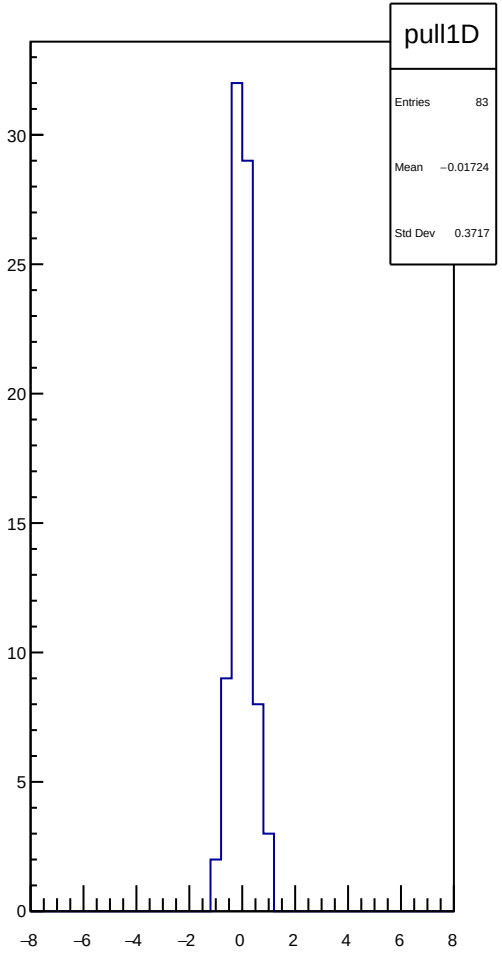

pull1D
Entries 83
Mean 0.00366
Std Dev 0.5975

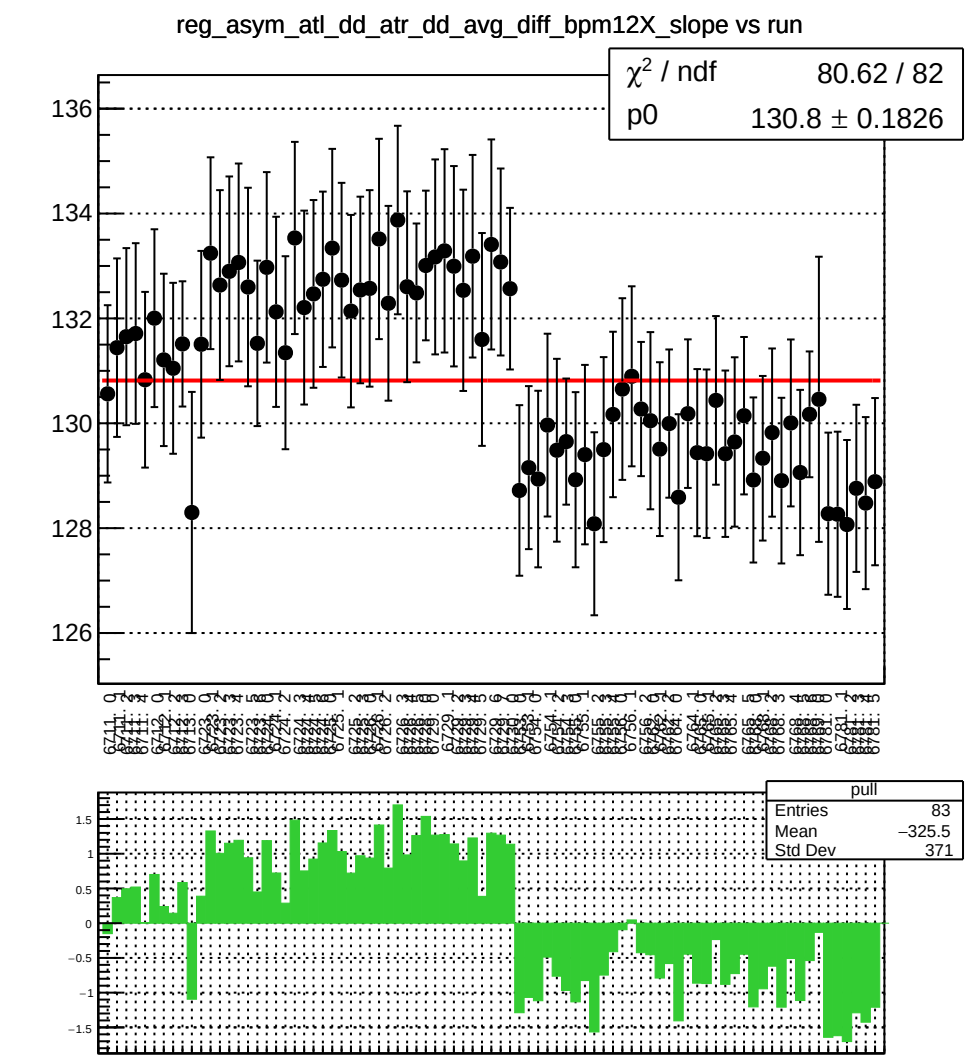

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.538 / 82
p0 −6.788 ± 2.413
pull
Entries 83
Mean −207.7
Std Dev 242.9
pull1D
Entries 83
Mean 0.002747
Std Dev 0.339

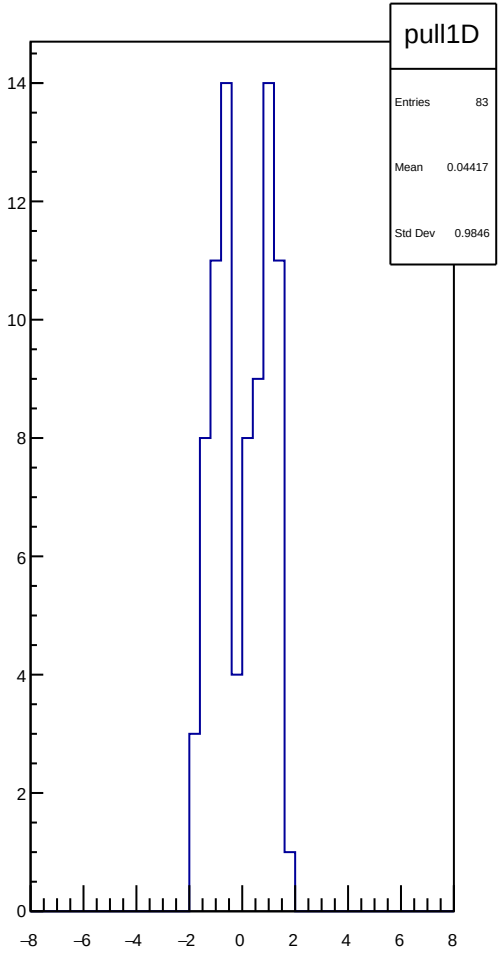

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.14 / 82
p0 −239.2 ± 3.954
−100
−150
−200
−250
−300
pull
Entries 83
Mean −1065
Std Dev 1114
2
1.5
1
0.5
0
−0.5
−1

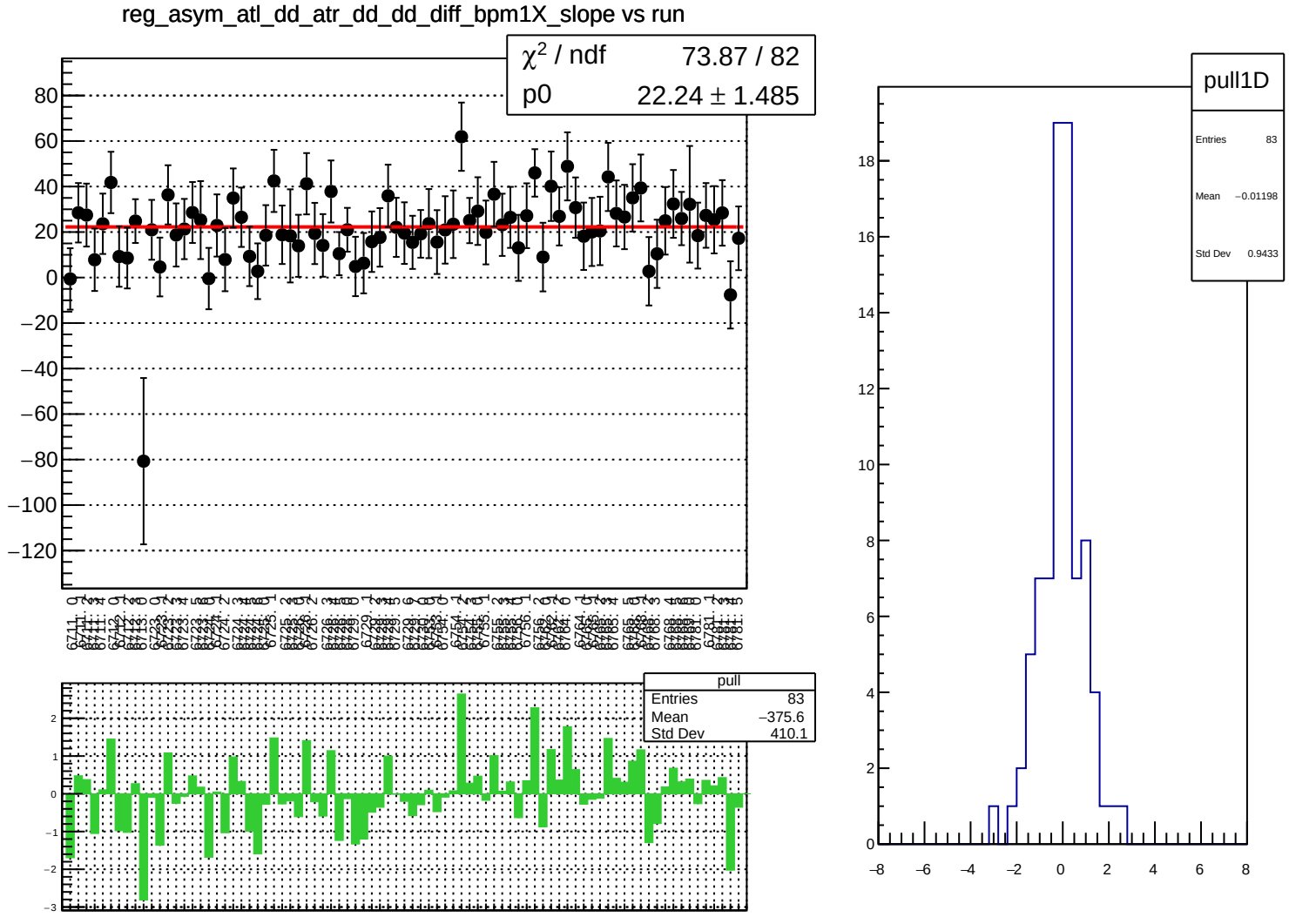

pull1D
Entries 83
Mean 0.003685
Std Dev 0.5047
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

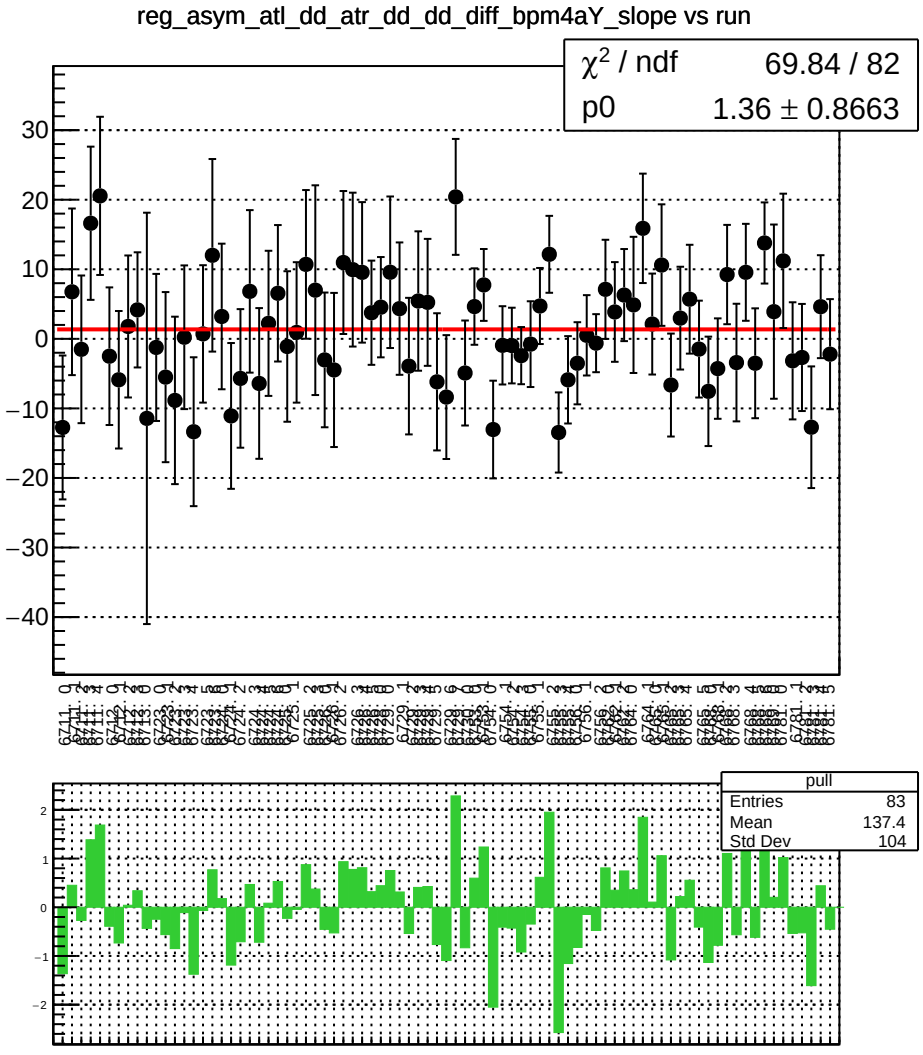

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.49 / 82
p0 −62.1 ± 3.086
pull
Entries 83
Mean −137.6
Std Dev 175.1

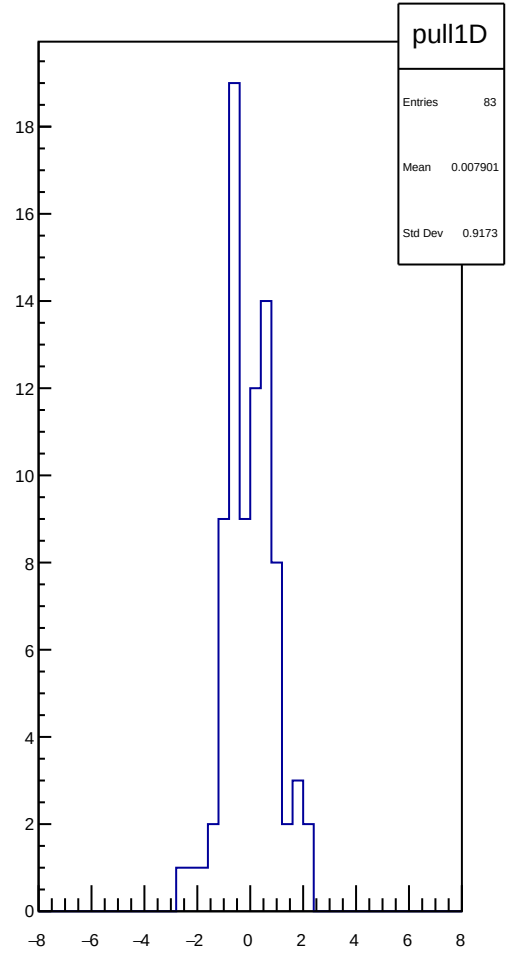

pull1D
Entries 83
Mean −0.01724
Std Dev 0.3717

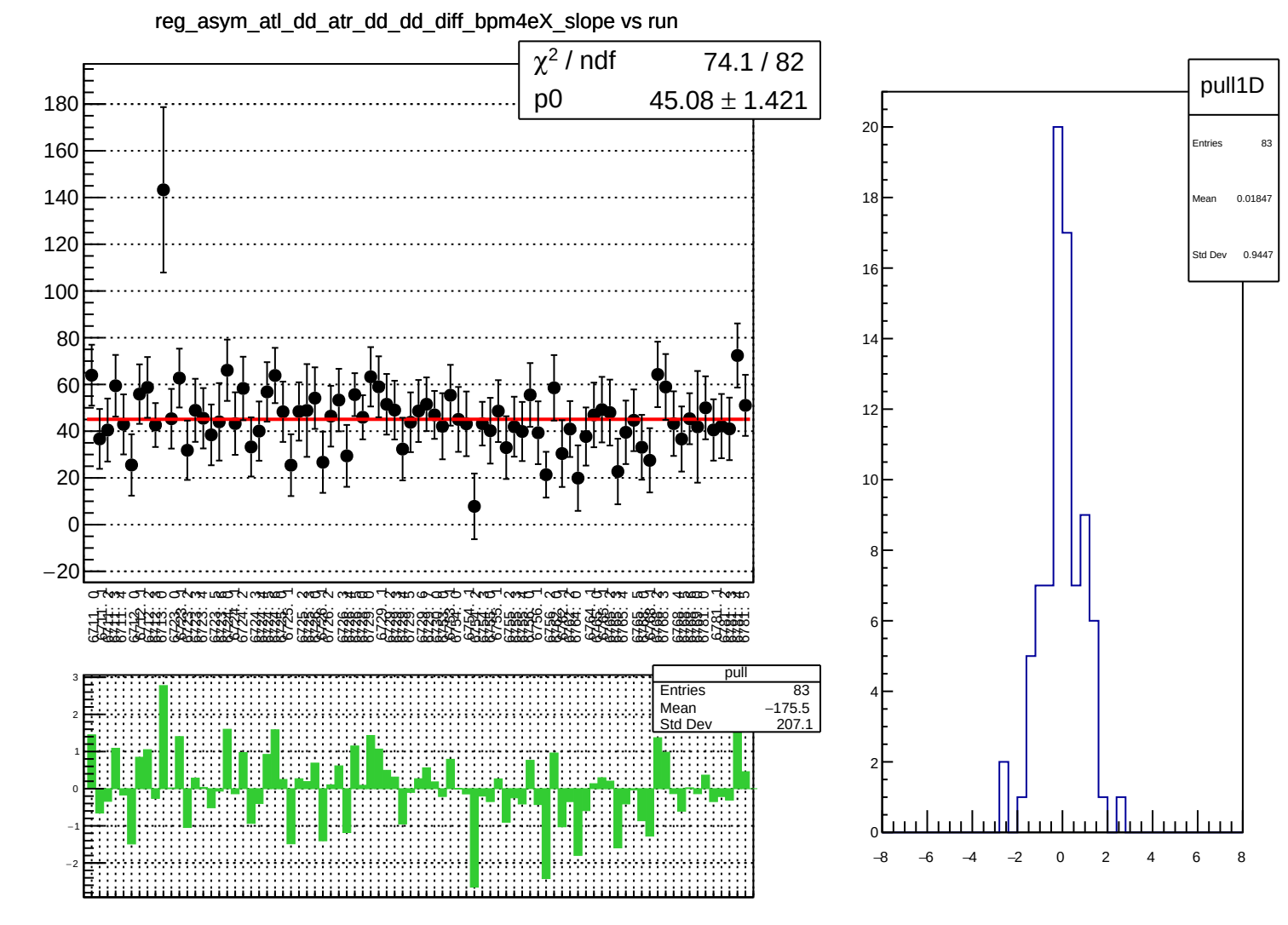

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 80.62 / 82
p0 130.8 ± 0.1826
136
134
132
130
128
126
pull
Entries 83
Mean −325.5
Std Dev 371
1.5
1
0.5
0
−0.5
−1
−1.5

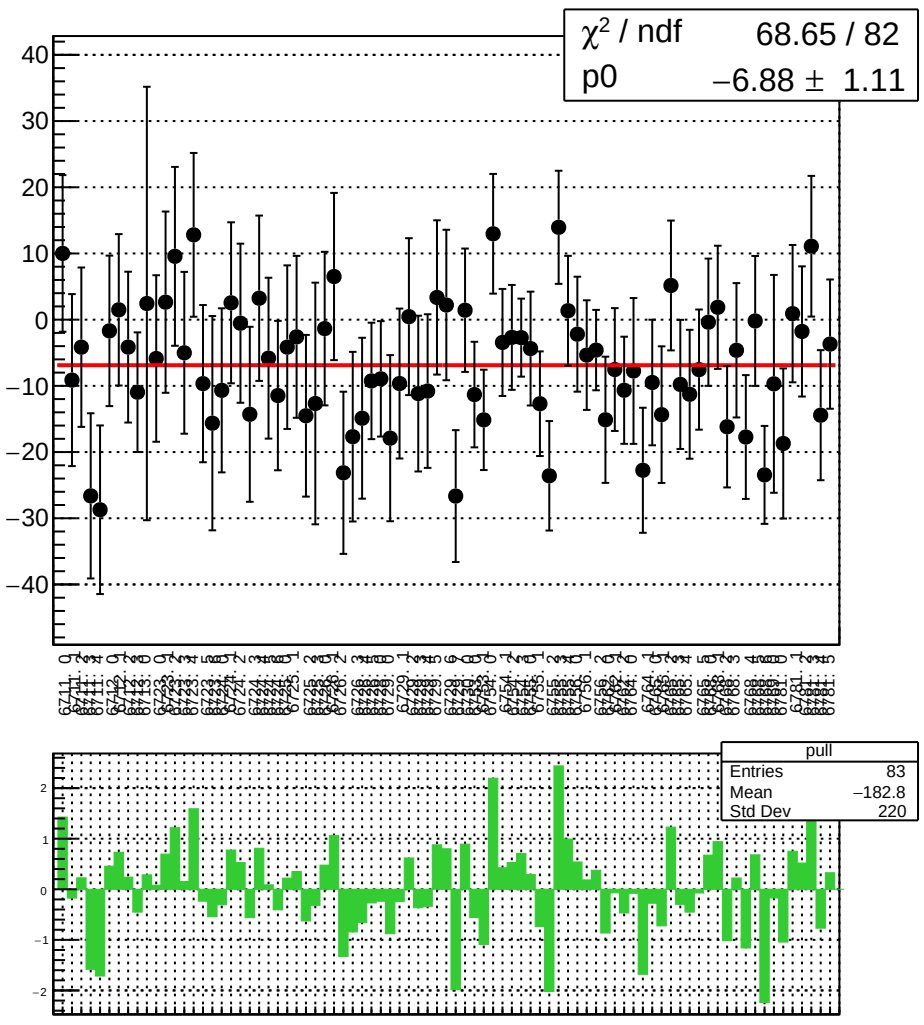

pull1D
Entries 83
Mean 0.04417
Std Dev 0.9846
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

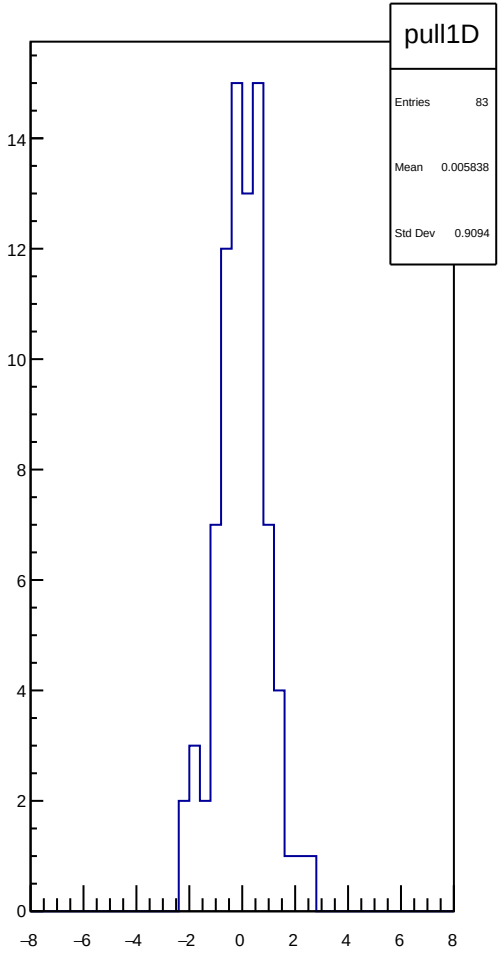

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 73.87 / 82
p0 22.24 ± 1.485
pull
Entries 83
Mean −375.6
Std Dev 410.1
pull1D
Entries 83
Mean −0.01198
Std Dev 0.9433

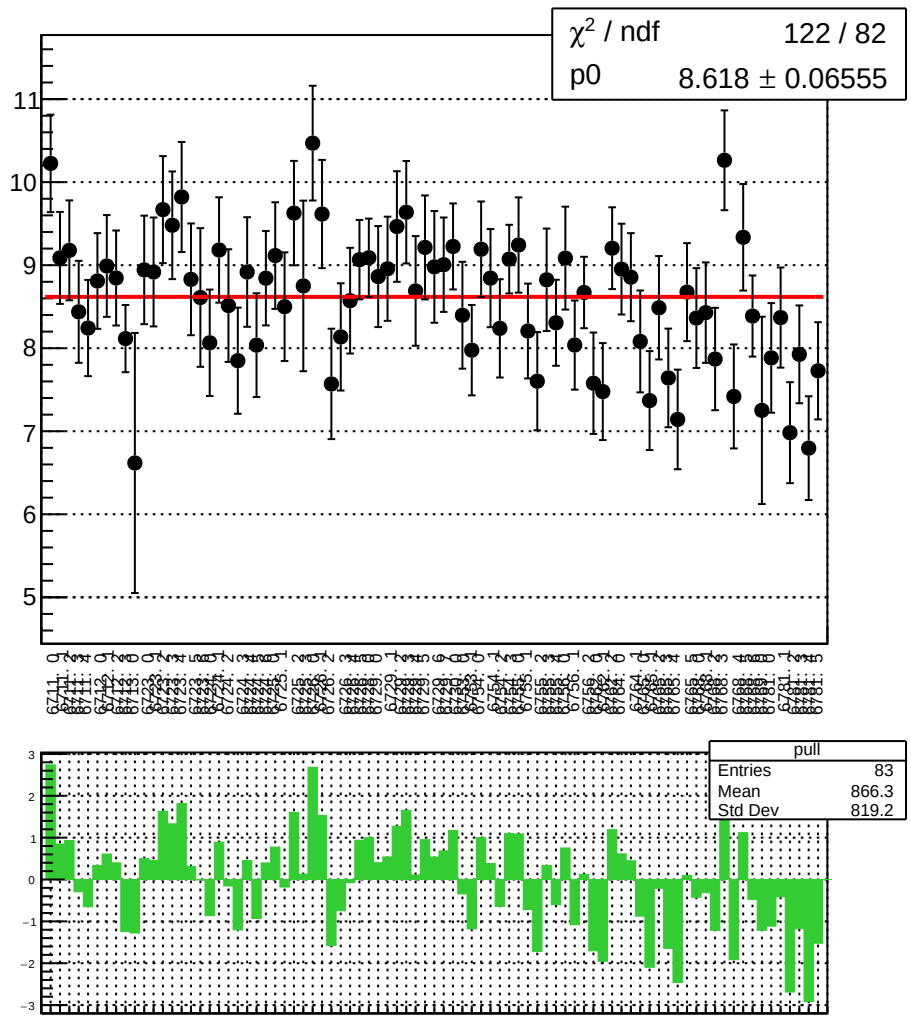

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.84 / 82
p0 1.36 ± 0.8663
pull
Entries 83
Mean 137.4
Std Dev 104

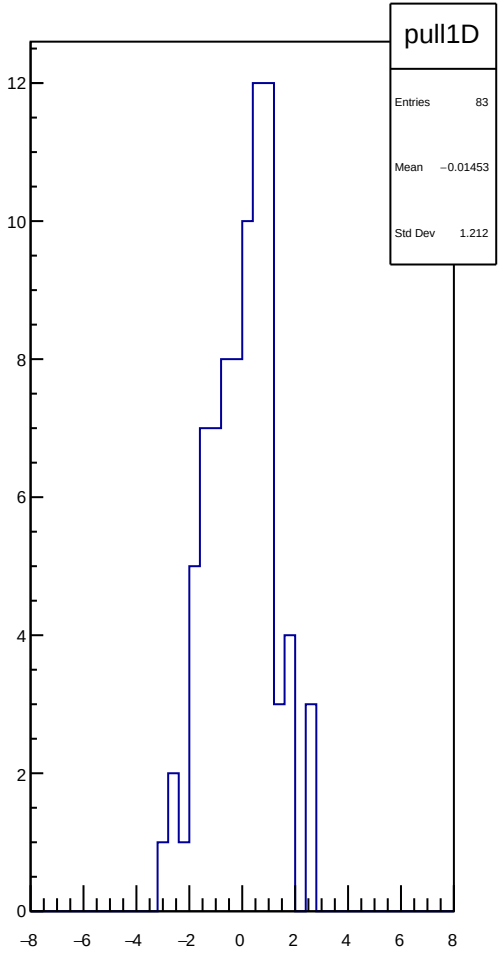

pull1D
Entries 83
Mean 0.007901
Std Dev 0.9173

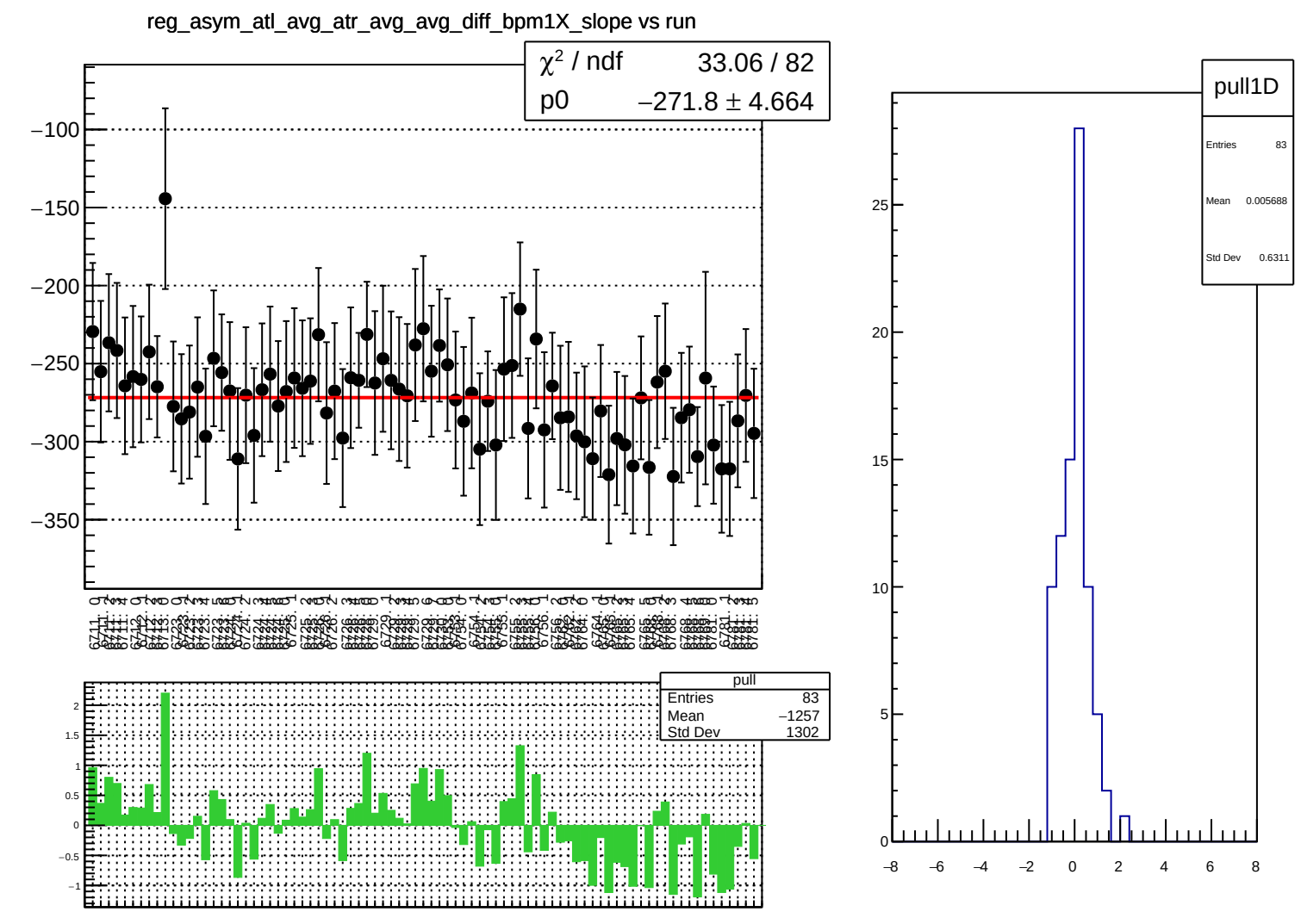

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.1 / 82
p0 45.08 ± 1.421
pull
Entries 83
Mean −175.5
Std Dev 207.1
pull1D
Entries 83
Mean 0.01847
Std Dev 0.9447

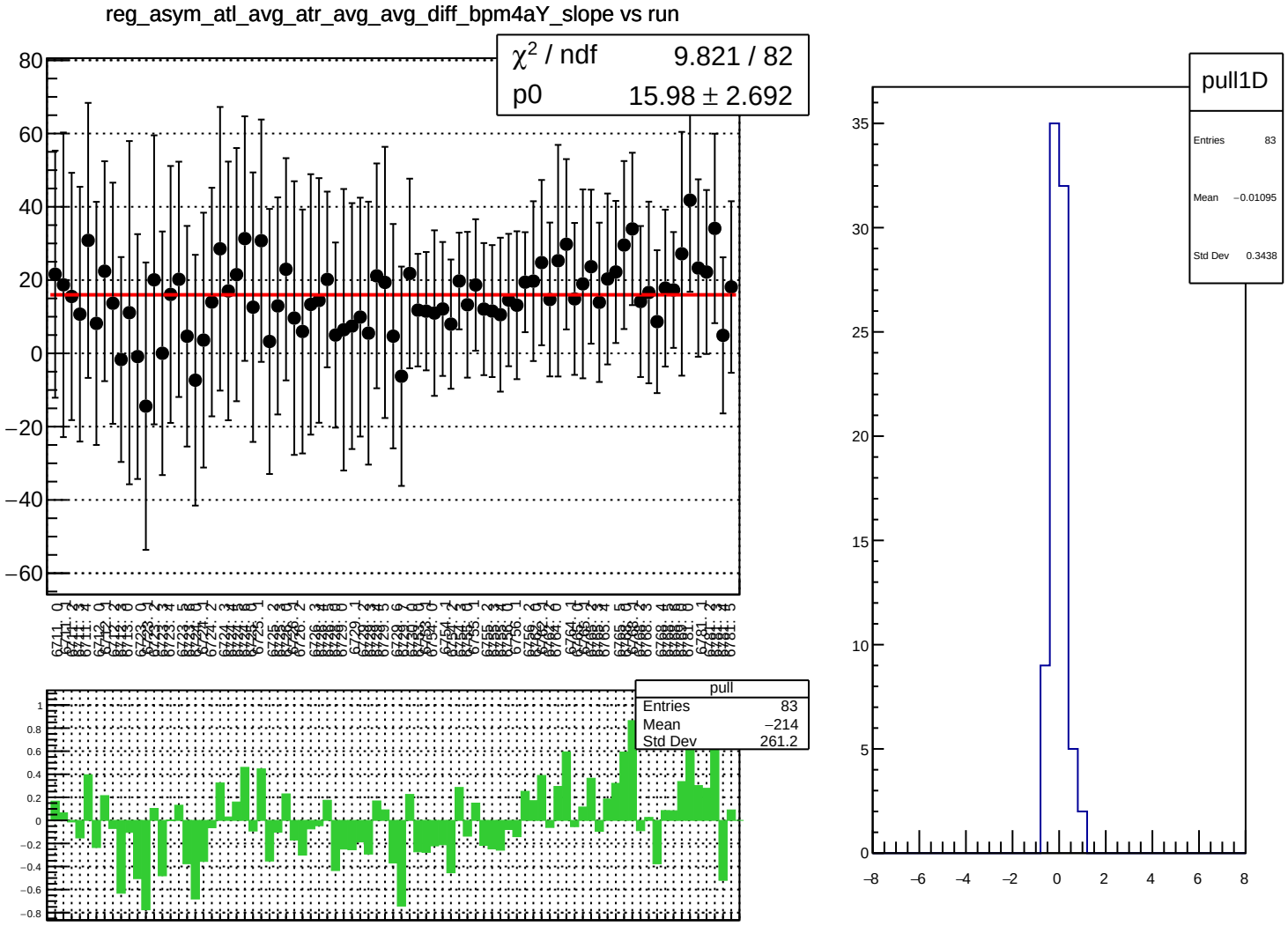

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 68.65 / 82
p0 −6.88 ± 1.11
pull
Entries 83
Mean −182.8
Std Dev 220

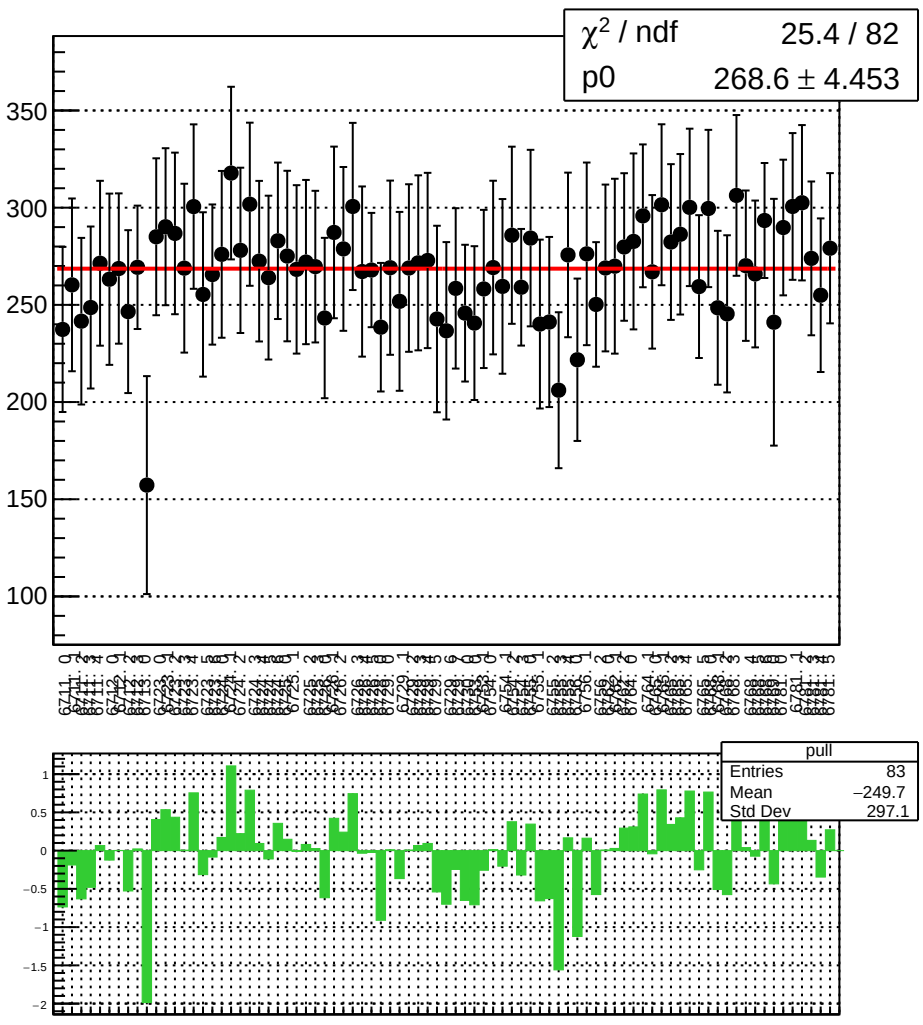

pull1D
Entries 83
Mean 0.005838
Std Dev 0.9094

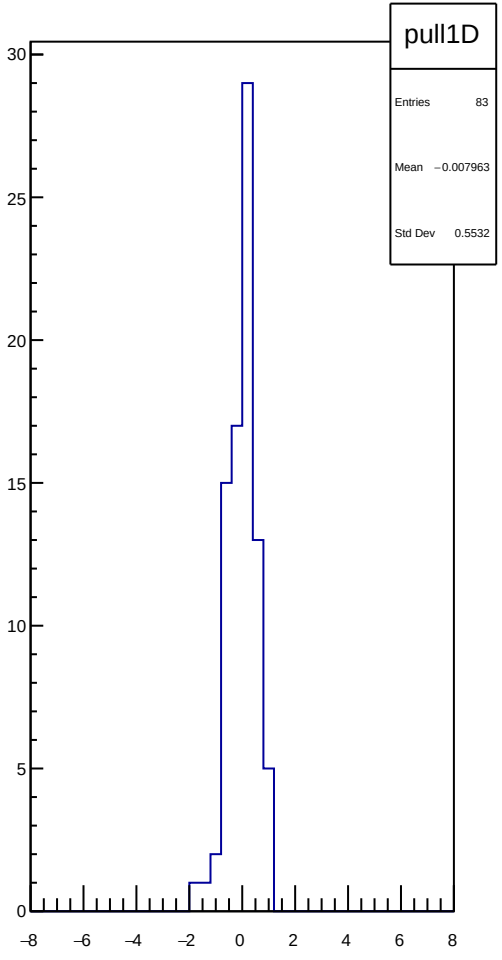

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 122 / 82
p0 8.618 ± 0.06555
pull
Entries 83
Mean 866.3
Std Dev 819.2

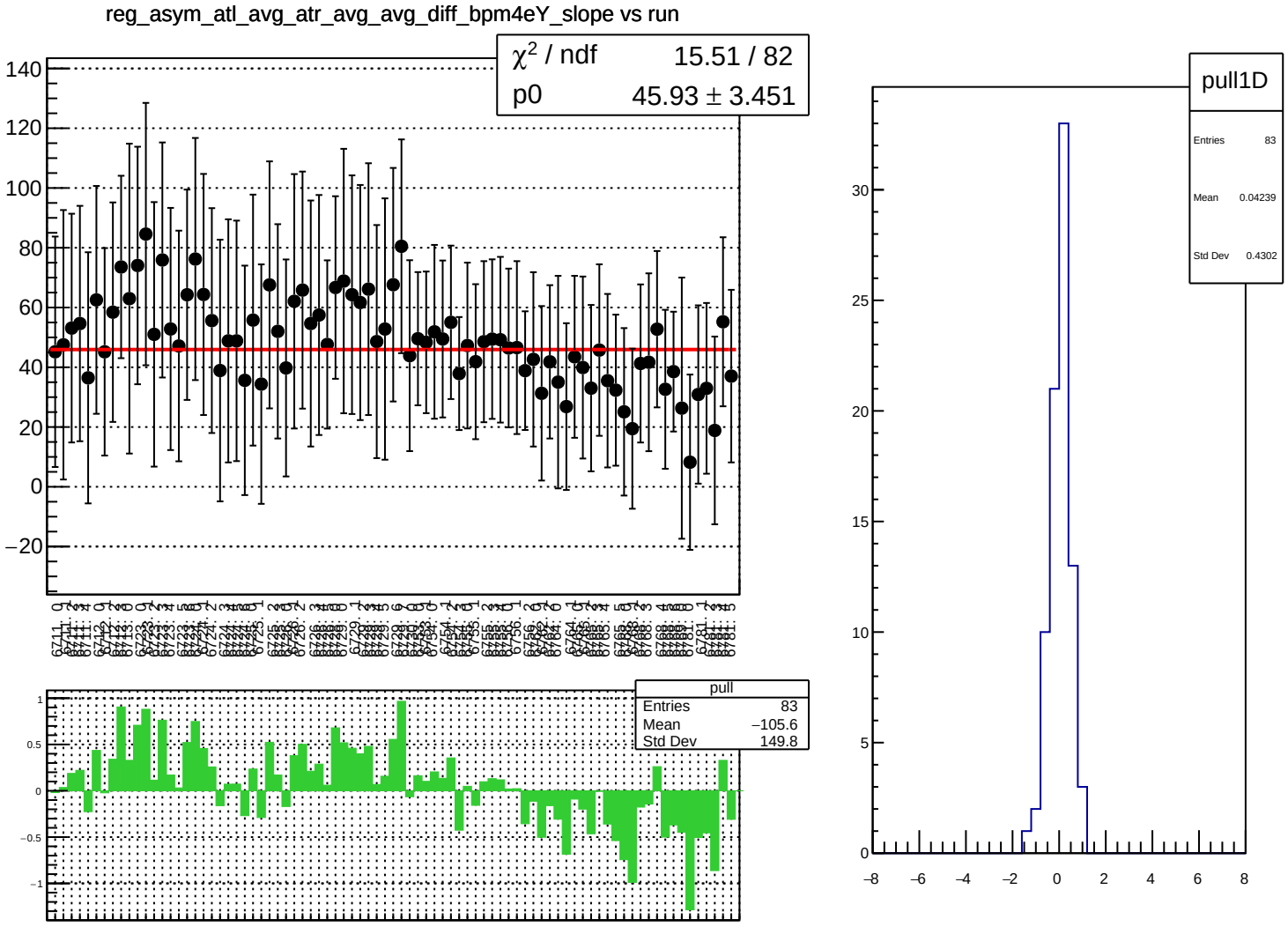

pull1D
Entries 83
Mean −0.01453
Std Dev 1.212

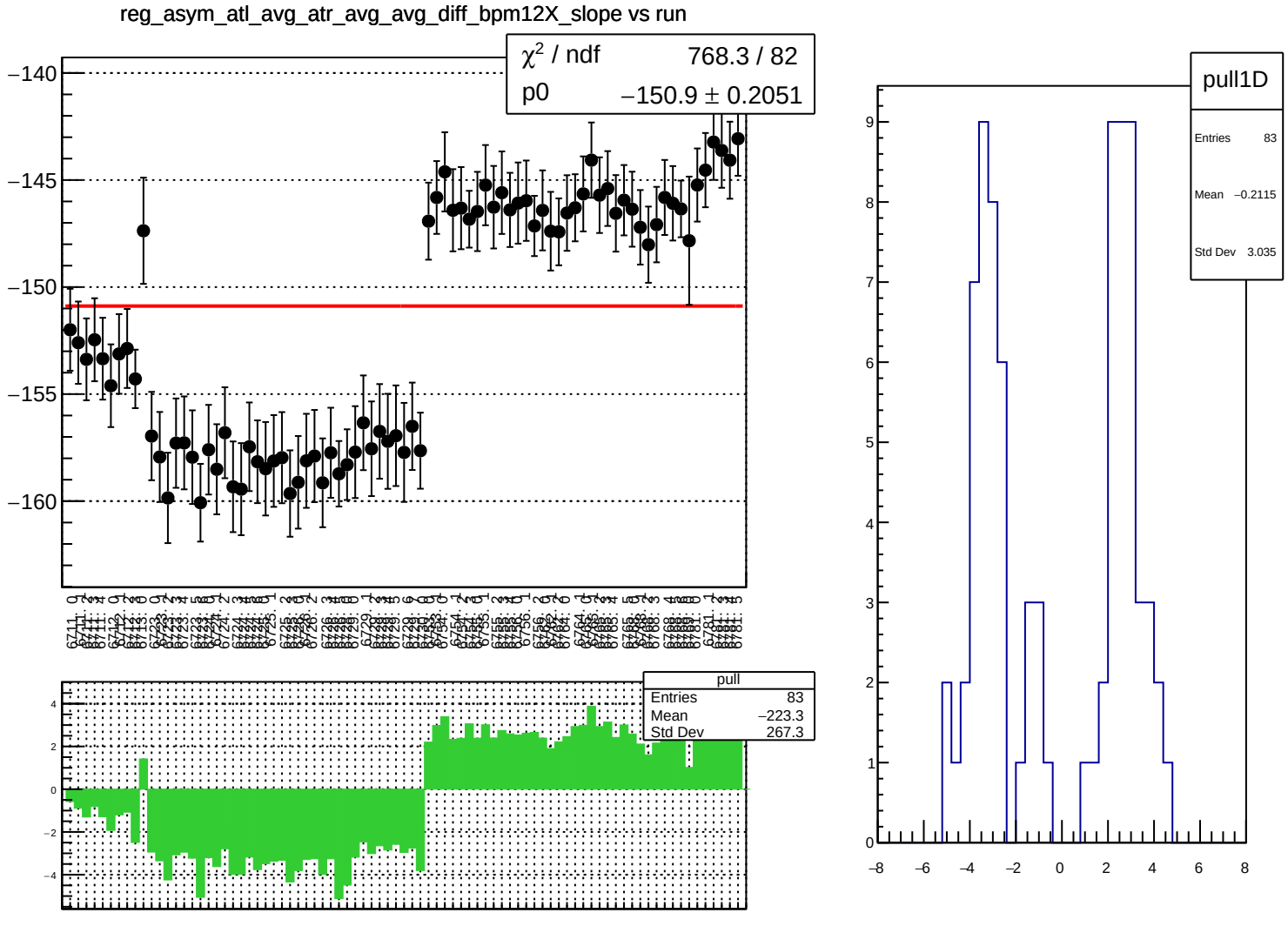

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 33.06 / 82
p0 −271.8 ± 4.664
−100
−150
−200
−250
−300
−350
pull
Entries 83
Mean −1257
Std Dev 1302
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 83
Mean 0.005688
Std Dev 0.6311
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

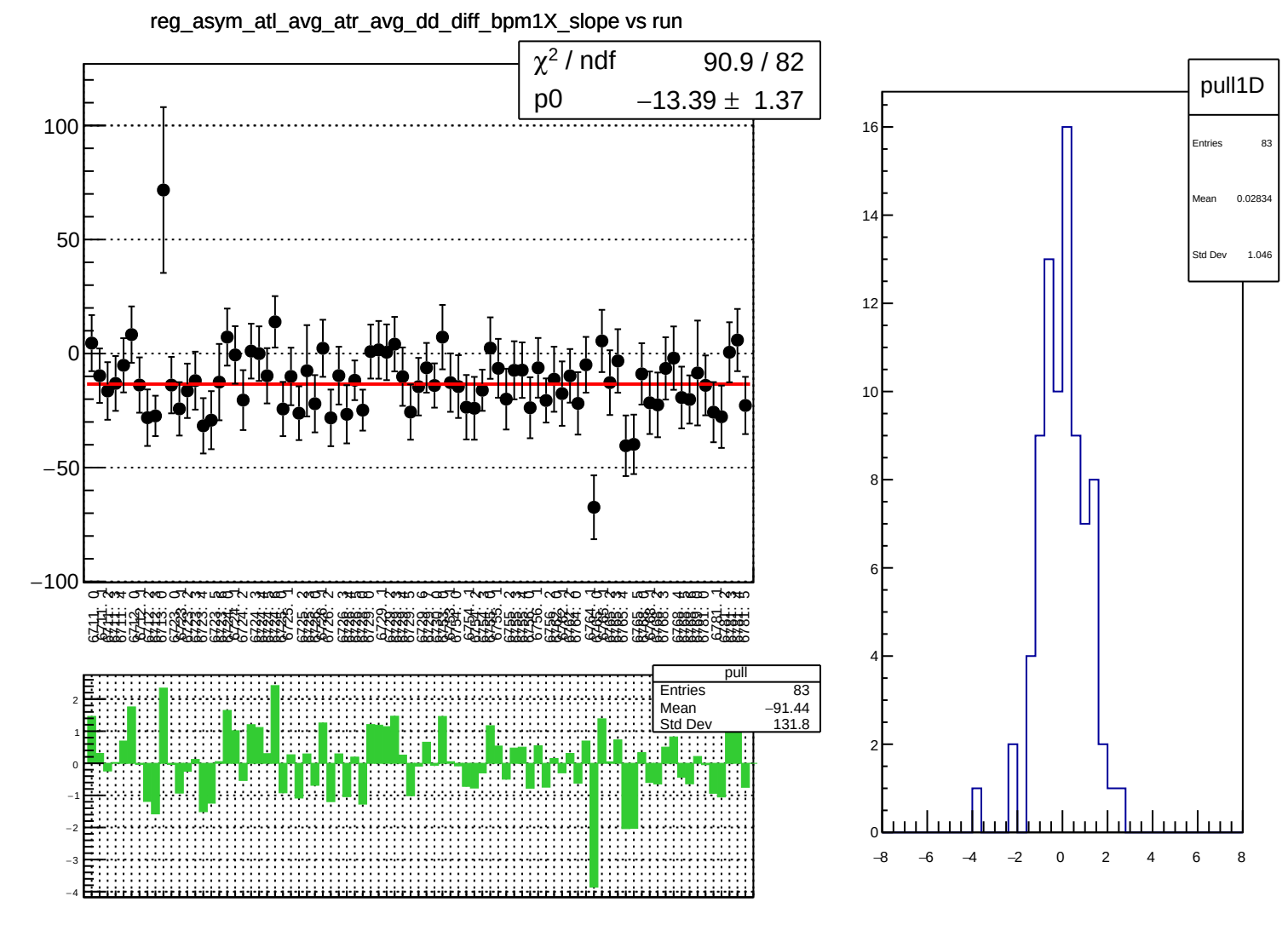

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.821 / 82
p0 15.98 ± 2.692
pull
Entries 83
Mean −214
Std Dev 261.2
pull1D
Entries 83
Mean −0.01095
Std Dev 0.3438

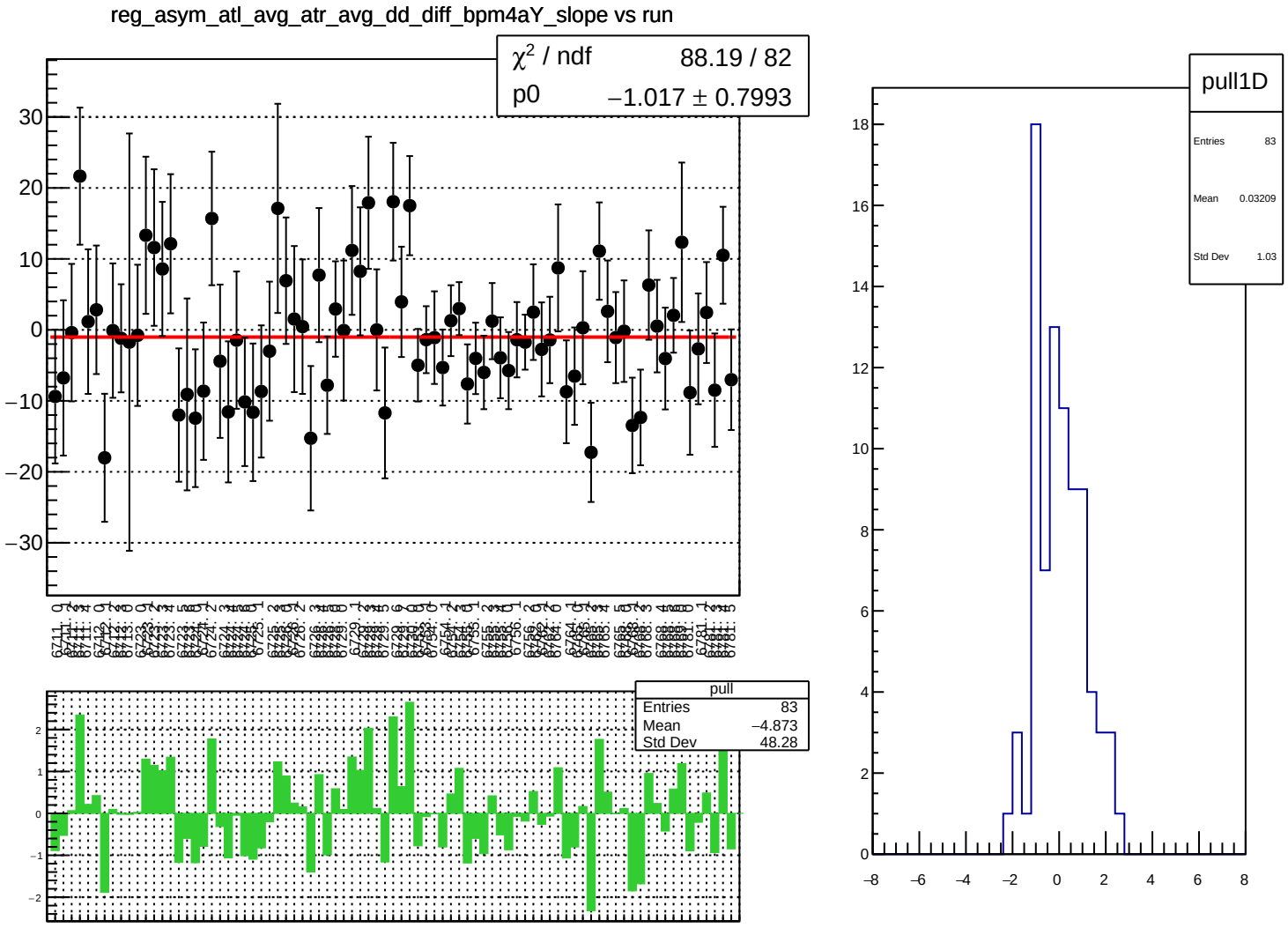

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.4 / 82
p0 268.6 ± 4.453
pull
Entries 83
Mean −249.7
Std Dev 297.1

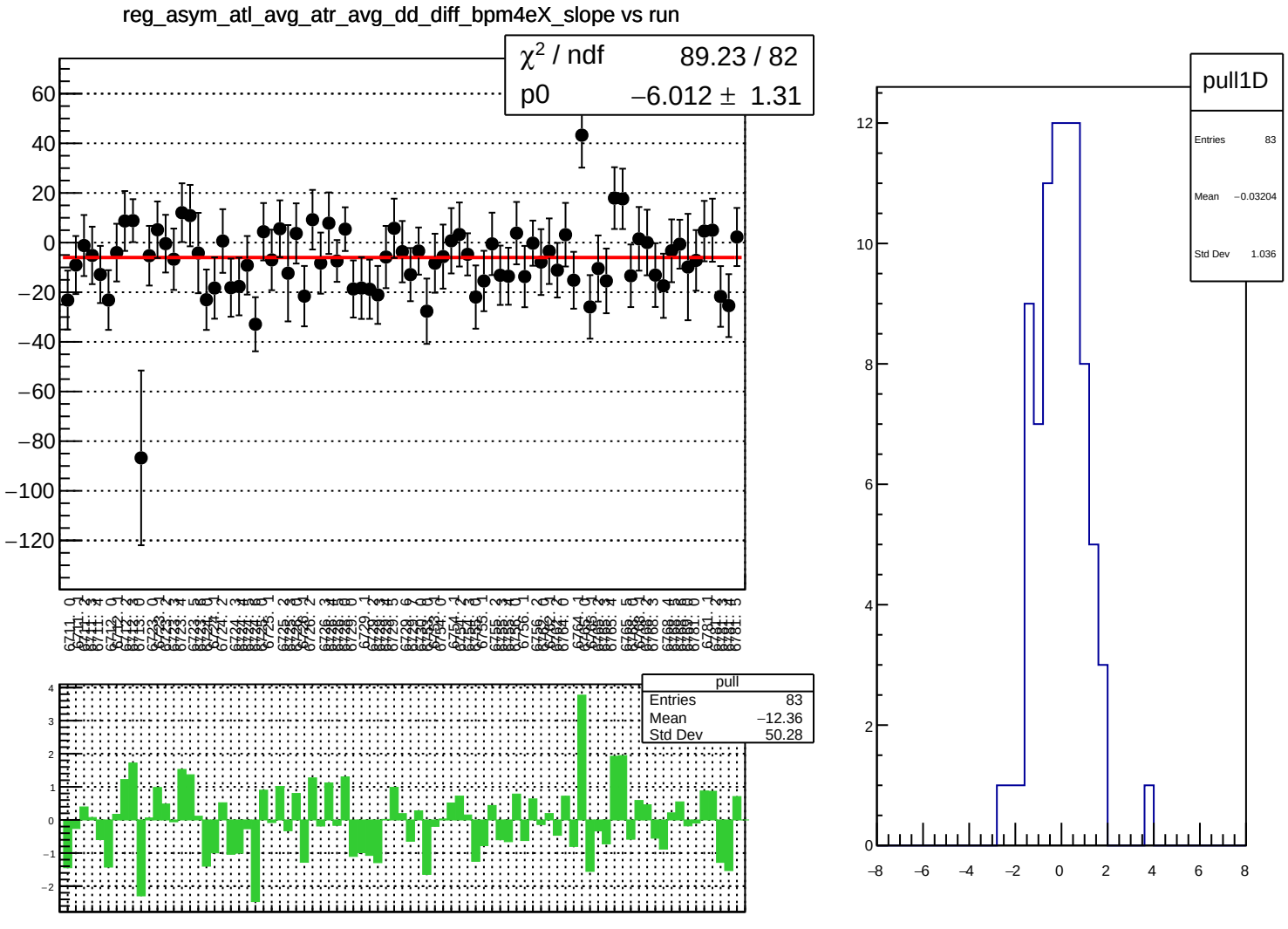

pull1D
Entries 83
Mean −0.007963
Std Dev 0.5532

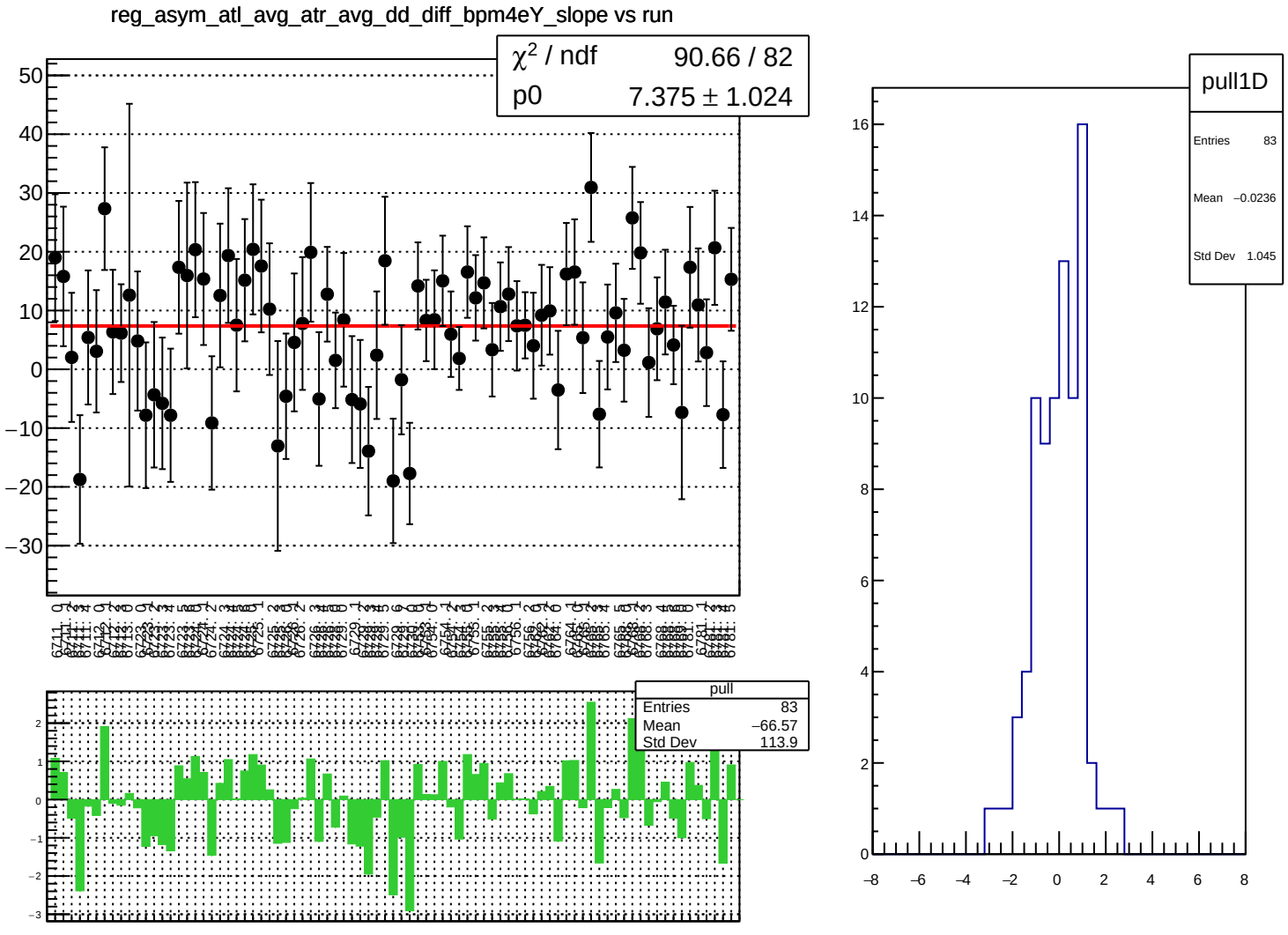

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.51 / 82
p0 45.93 ± 3.451
pull
Entries 83
Mean −105.6
Std Dev 149.8
pull1D
Entries 83
Mean 0.04239
Std Dev 0.4302

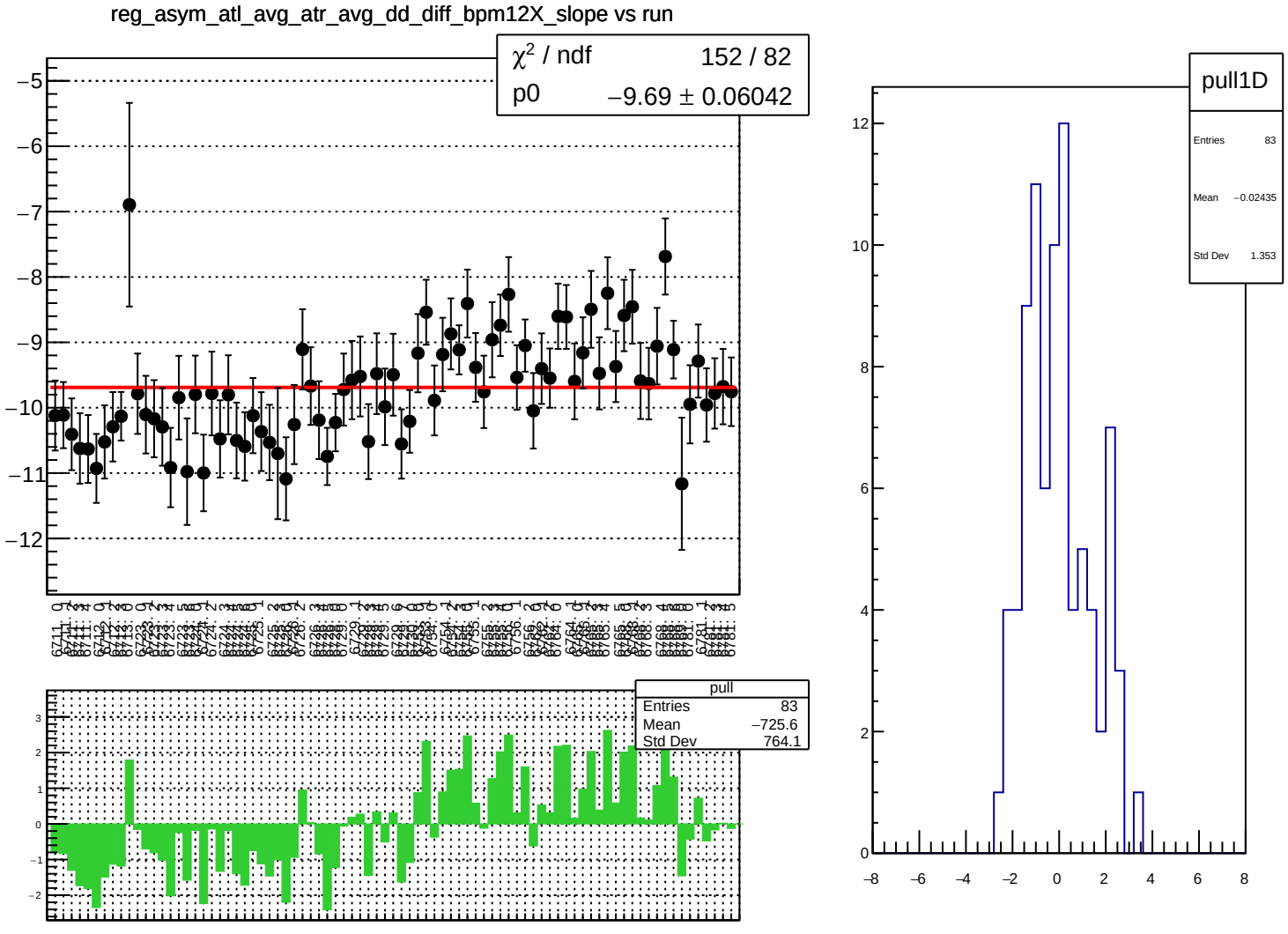

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 768.3 / 82
p0 −150.9 ± 0.2051
−140
−145
−150
−155
−160
pull
Entries 83
Mean −223.3
Std Dev 267.3
4
2
0
−2
−4
pull1D
Entries 83
Mean −0.2115
Std Dev 3.035
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

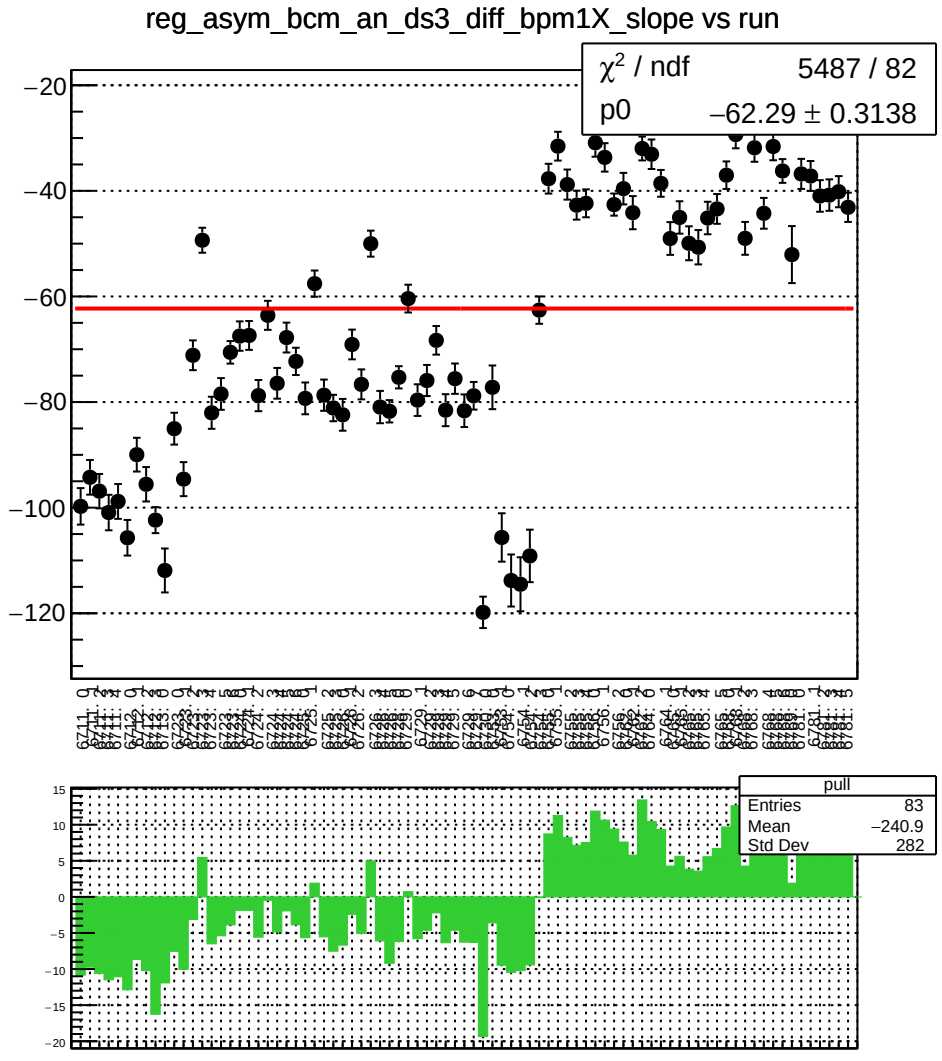

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 90.9 / 82
p0 −13.39 ± 1.37
pull
Entries 83
Mean −91.44
Std Dev 131.8
pull1D
Entries 83
Mean 0.02834
Std Dev 1.046

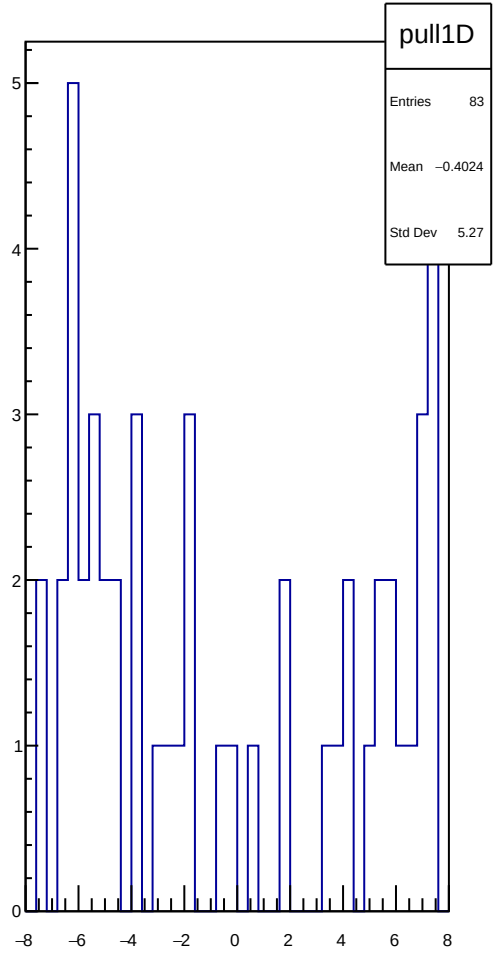

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 88.19 / 82
p0 −1.017 ± 0.7993
pull
Entries 83
Mean −4.873
Std Dev 48.28
pull1D
Entries 83
Mean 0.03209
Std Dev 1.03

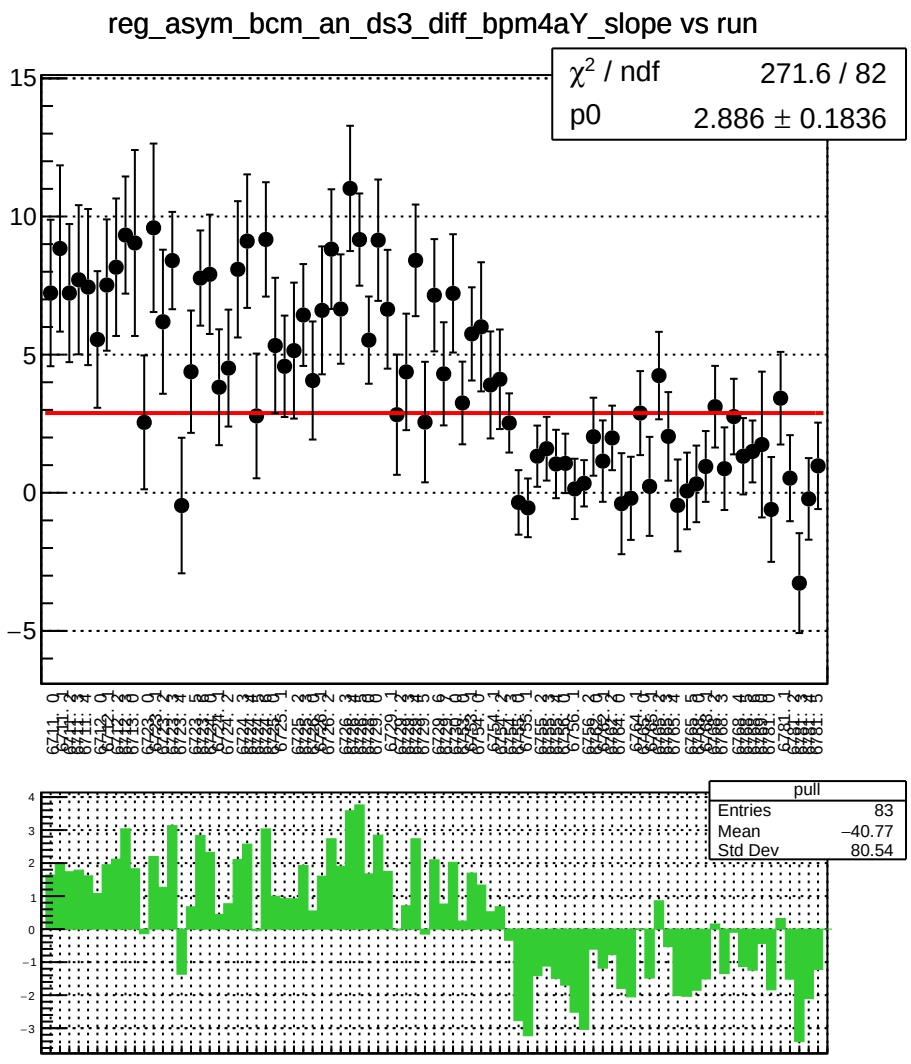

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 89.23 / 82
p0 −6.012 ± 1.31
pull
Entries 83
Mean −12.36
Std Dev 50.28
pull1D
Entries 83
Mean −0.03204
Std Dev 1.036

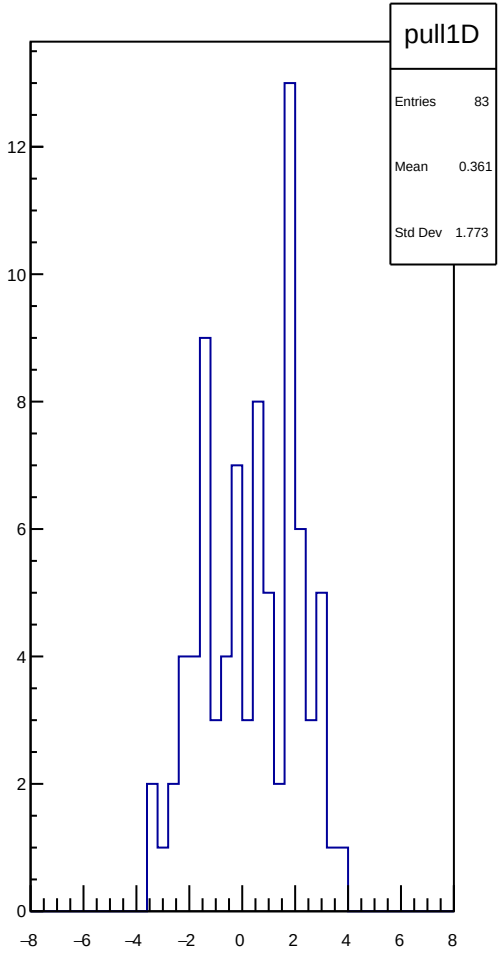

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 90.66 / 82
p0 7.375 ± 1.024
pull
Entries 83
Mean −66.57
Std Dev 113.9
pull1D
Entries 83
Mean −0.0236
Std Dev 1.045

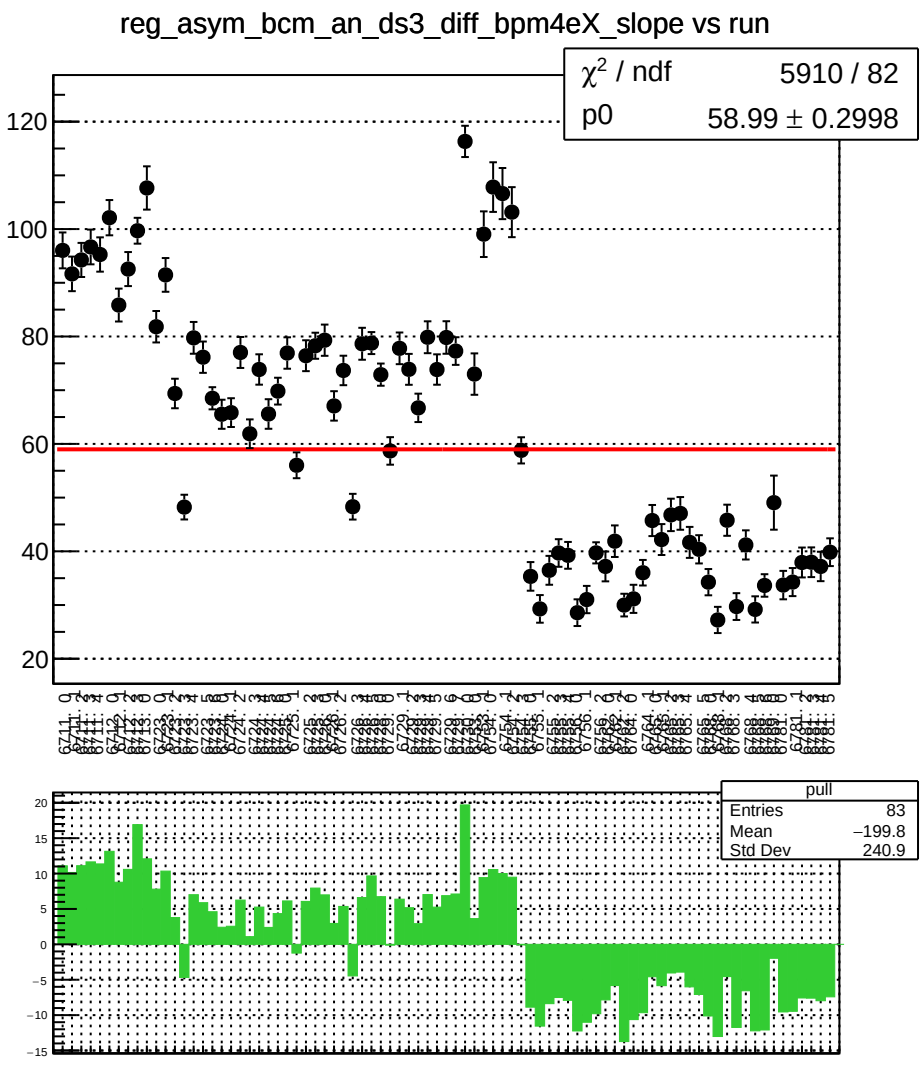

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 152 / 82
p0 −9.69 ± 0.06042
pull
Entries 83
Mean −725.6
Std Dev 764.1
pull1D
Entries 83
Mean −0.02435
Std Dev 1.353

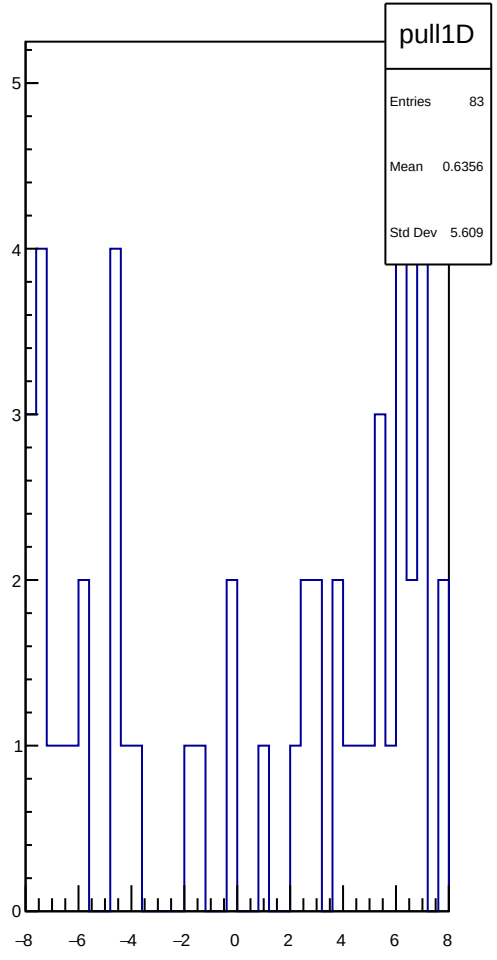

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 5487 / 82
p0 −62.29 ± 0.3138
pull
Entries 83
Mean −240.9
Std Dev 282

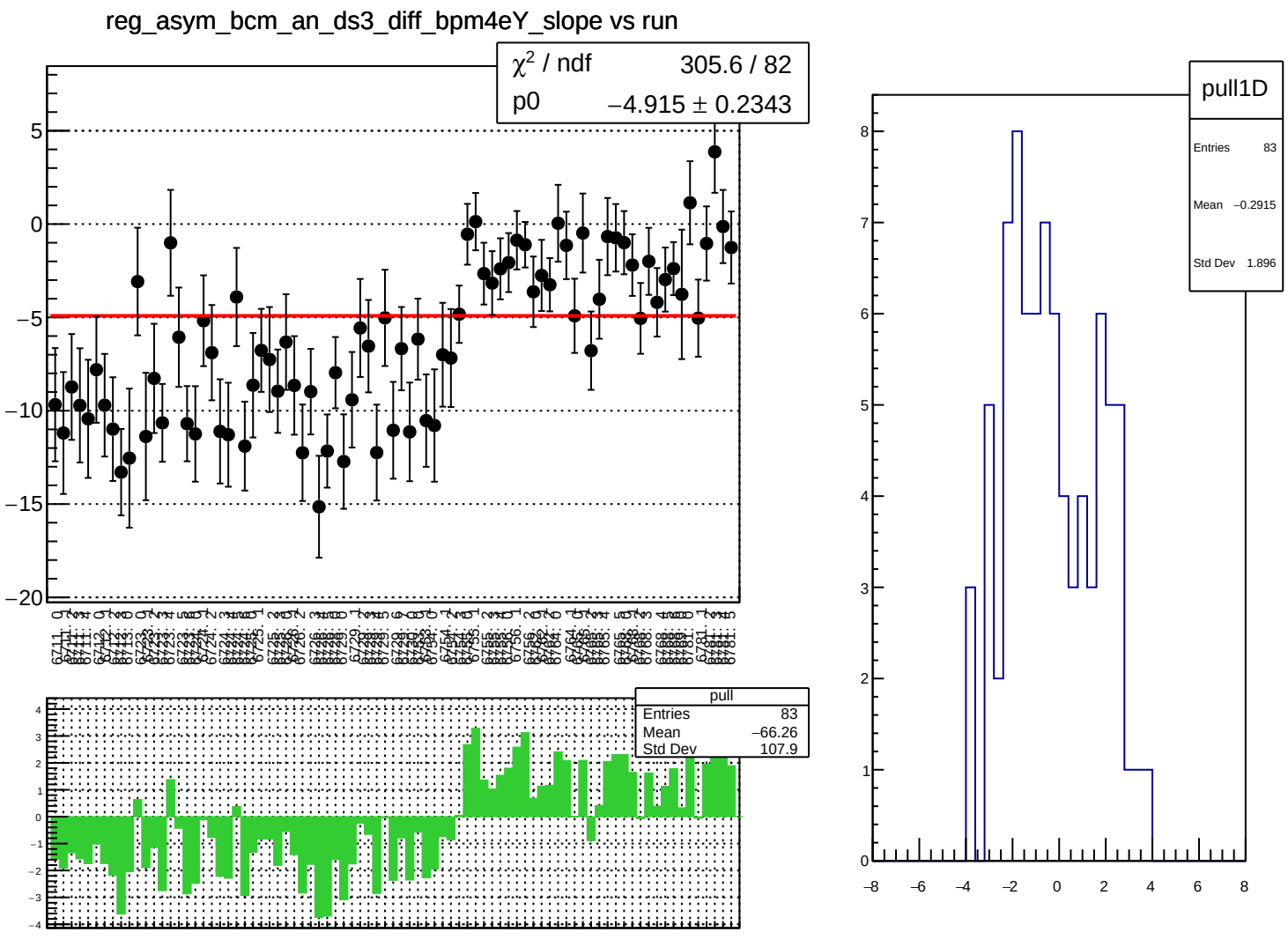

pull1D
Entries 83
Mean −0.4024
Std Dev 5.27

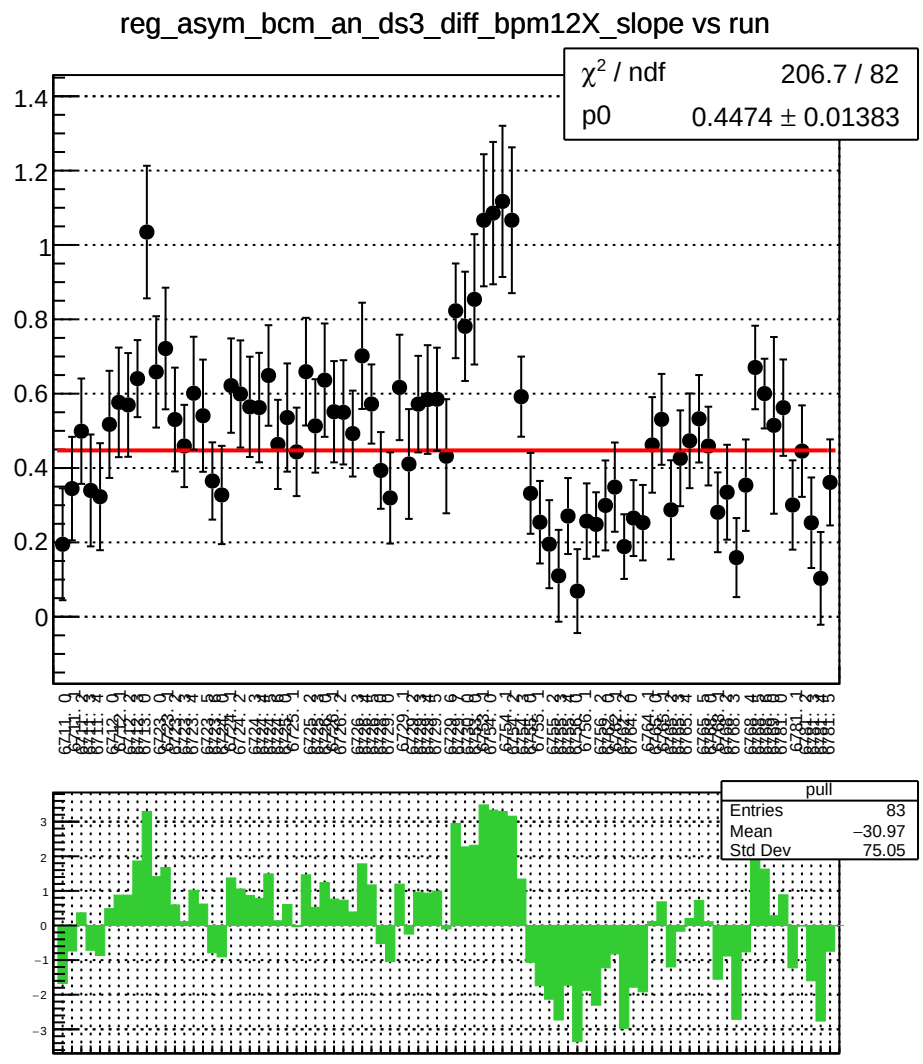

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 271.6 / 82
p0 2.886 ± 0.1836
pull
Entries 83
Mean −40.77
Std Dev 80.54

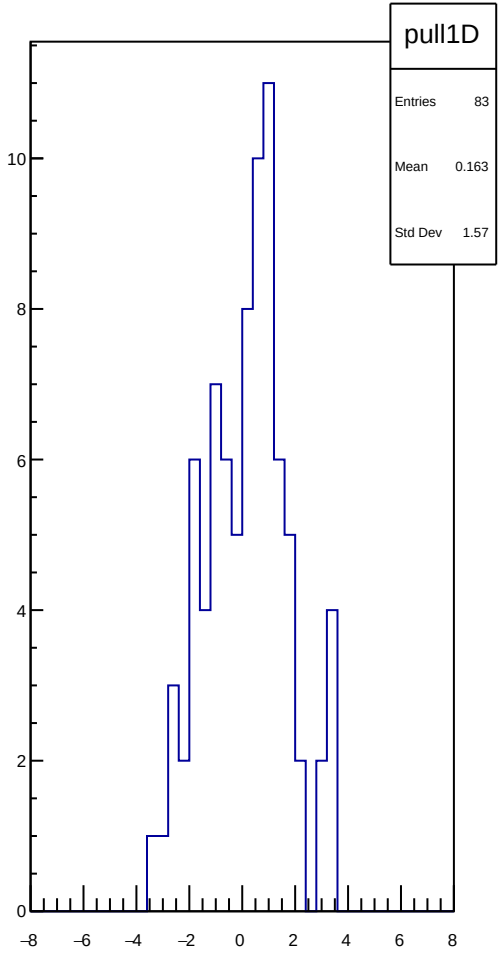

pull1D
Entries 83
Mean 0.361
Std Dev 1.773

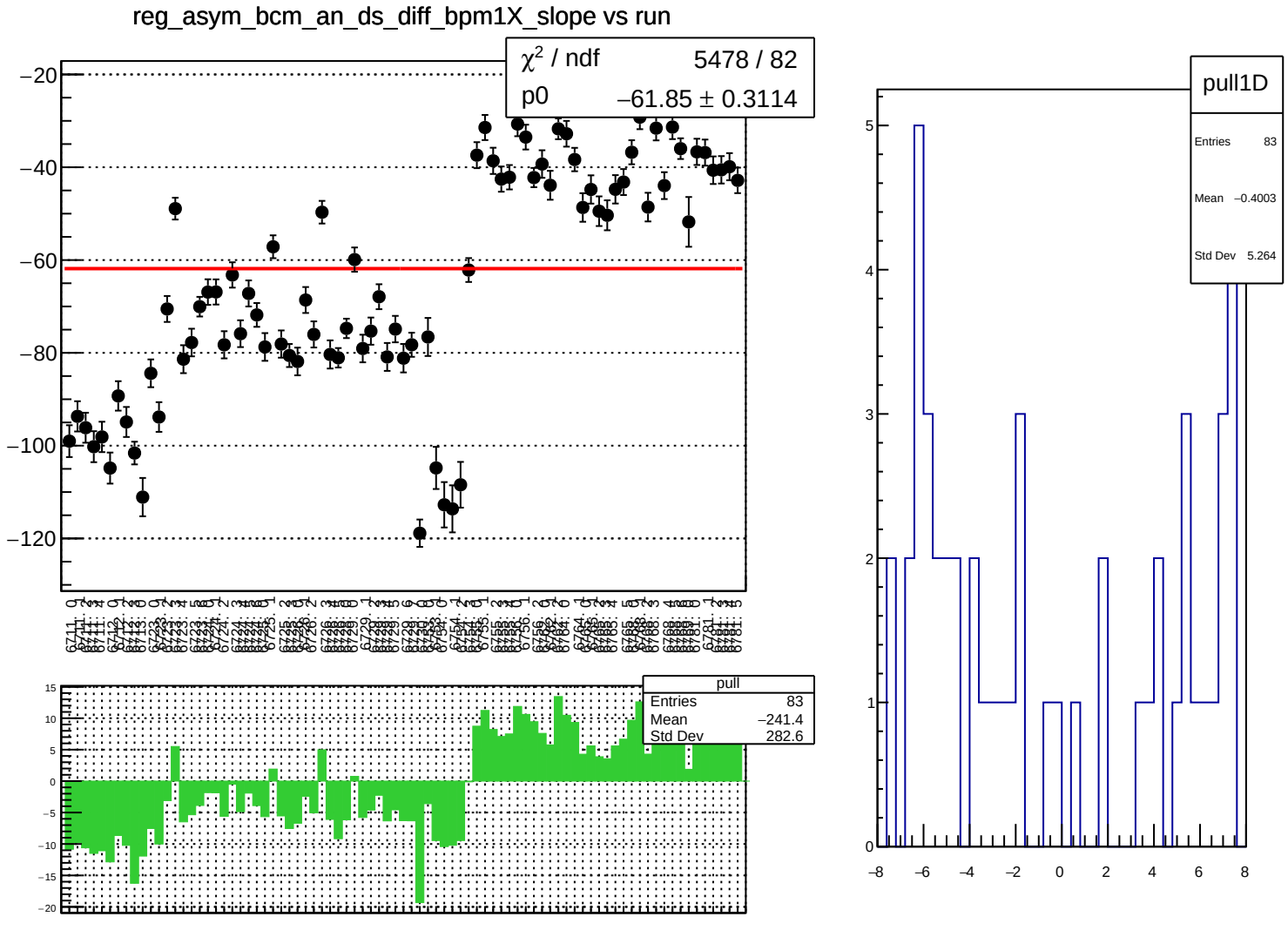

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 5910 / 82
p0 58.99 ± 0.2998
pull
Entries 83
Mean −199.8
Std Dev 240.9

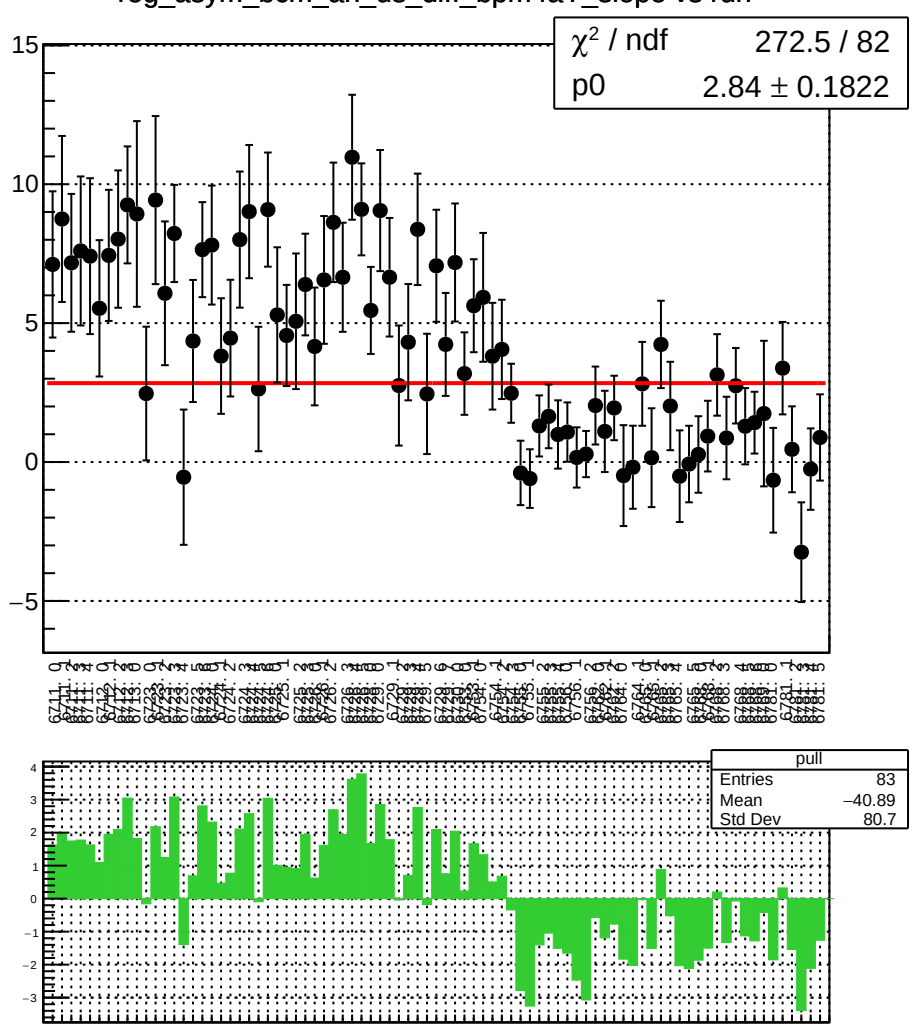

pull1D
Entries 83
Mean 0.6356
Std Dev 5.609

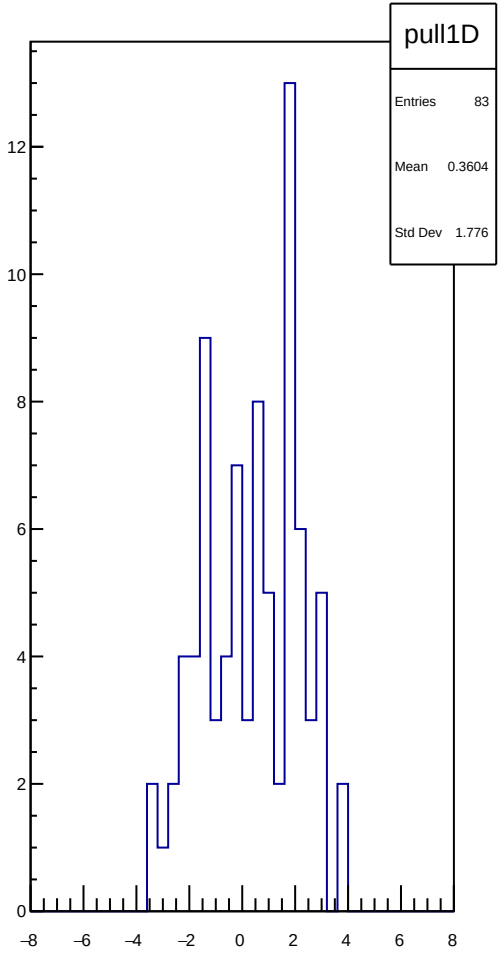

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 305.6 / 82
p0 −4.915 ± 0.2343
pull
Entries 83
Mean −66.26
Std Dev 107.9
pull1D
Entries 83
Mean −0.2915
Std Dev 1.896

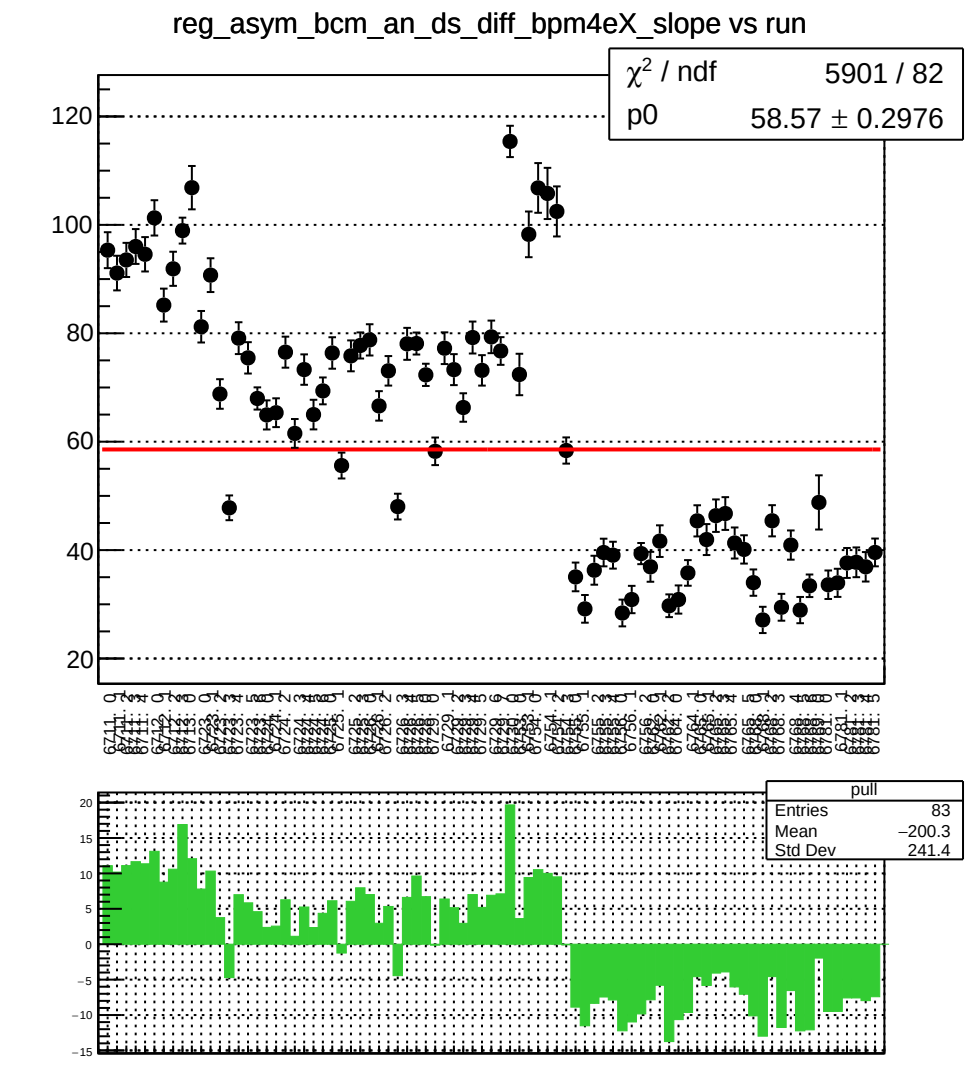

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 206.7 / 82
p0 0.4474 ± 0.01383
pull
Entries 83
Mean −30.97
Std Dev 75.05

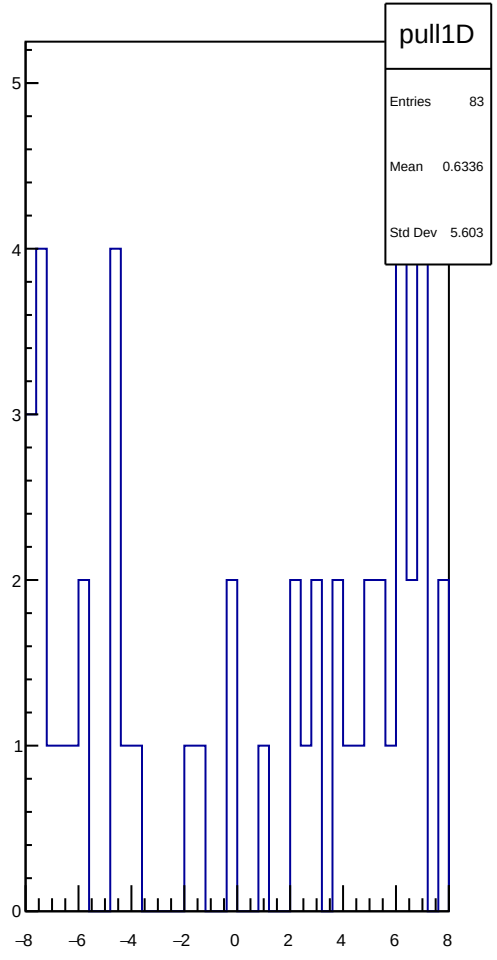

pull1D
Entries 83
Mean 0.163
Std Dev 1.57

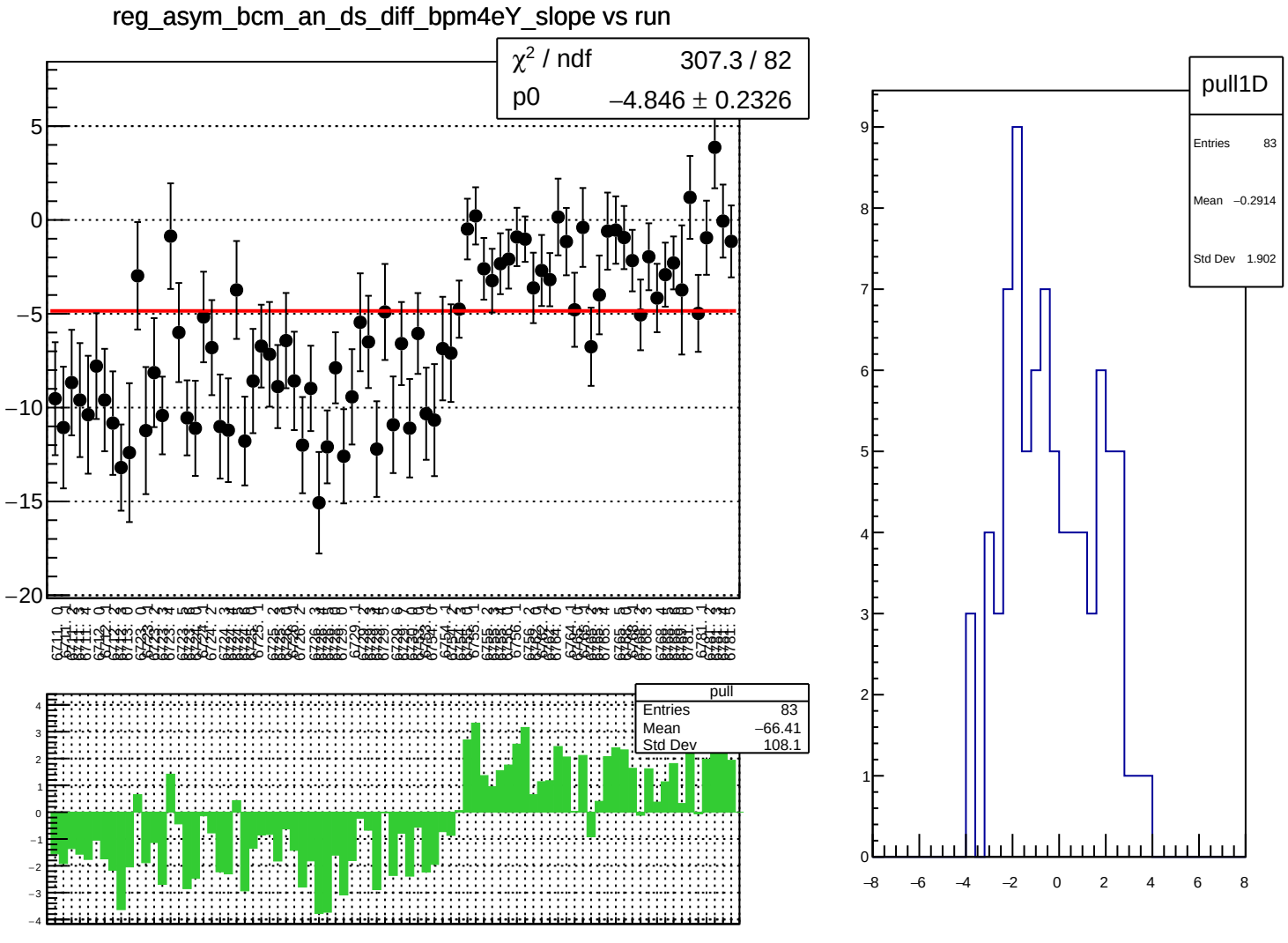

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 5478 / 82
p0 −61.85 ± 0.3114
pull
Entries 83
Mean −241.4
Std Dev 282.6
pull1D
Entries 83
Mean −0.4003
Std Dev 5.264

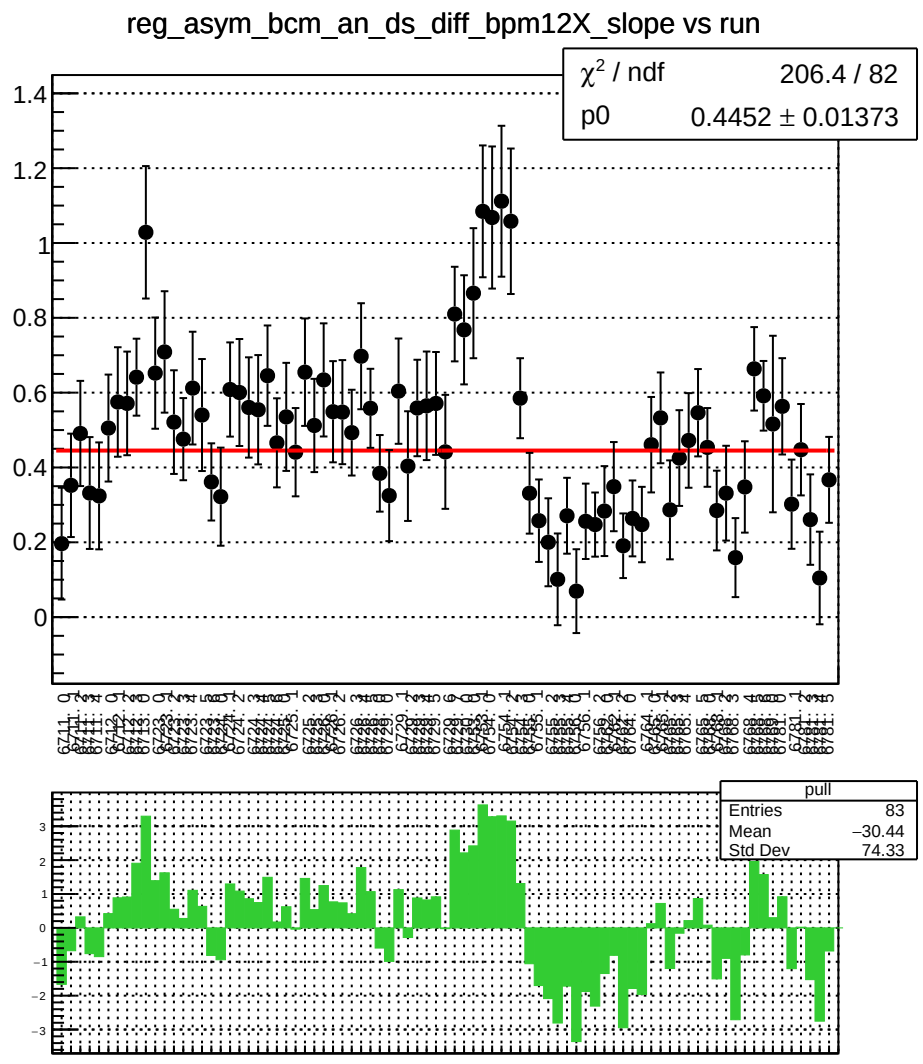

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 272.5 / 82
p0 2.84 ± 0.1822
pull
Entries 83
Mean −40.89
Std Dev 80.7

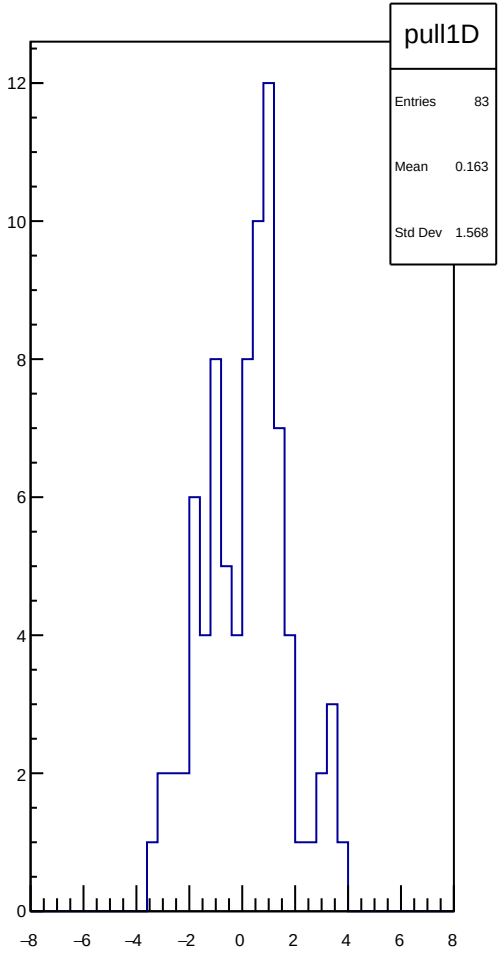

pull1D
Entries 83
Mean 0.3604
Std Dev 1.776

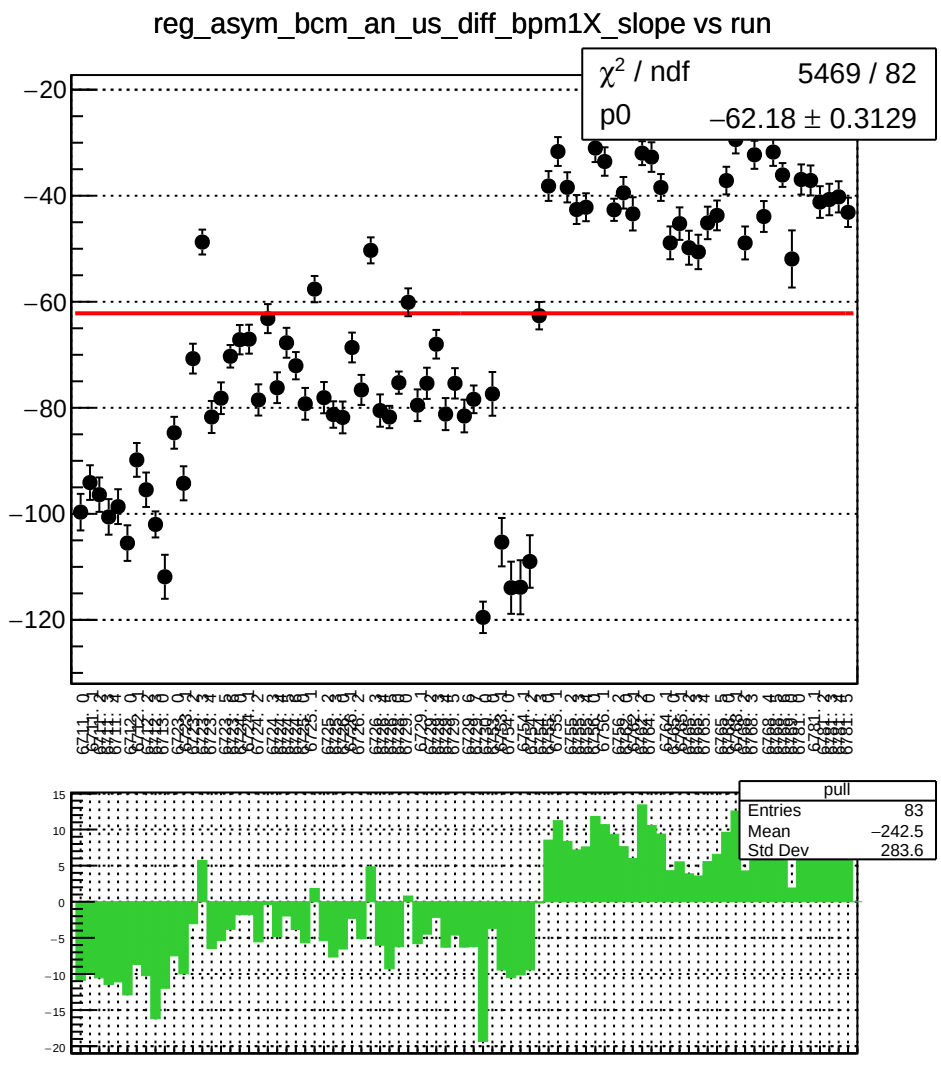

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 5901 / 82
p0 58.57 ± 0.2976
pull
Entries 83
Mean −200.3
Std Dev 241.4

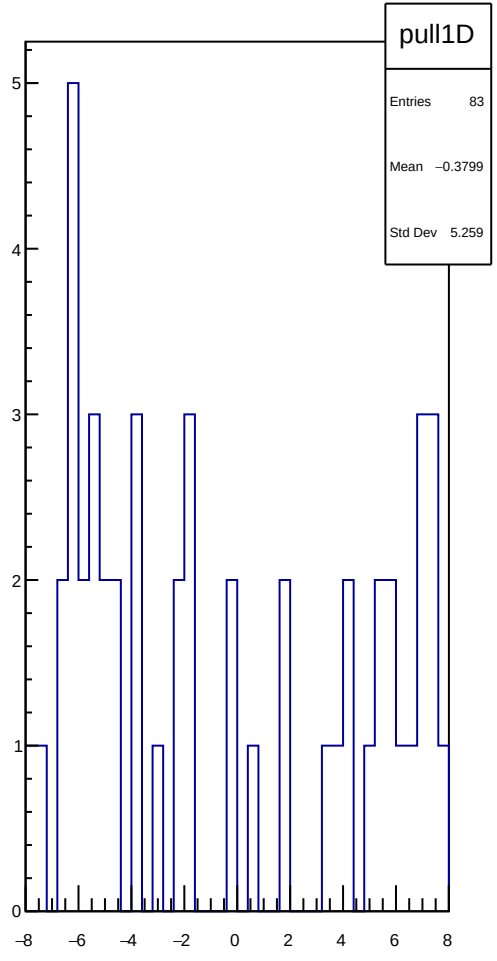

pull1D
Entries 83
Mean 0.6336
Std Dev 5.603

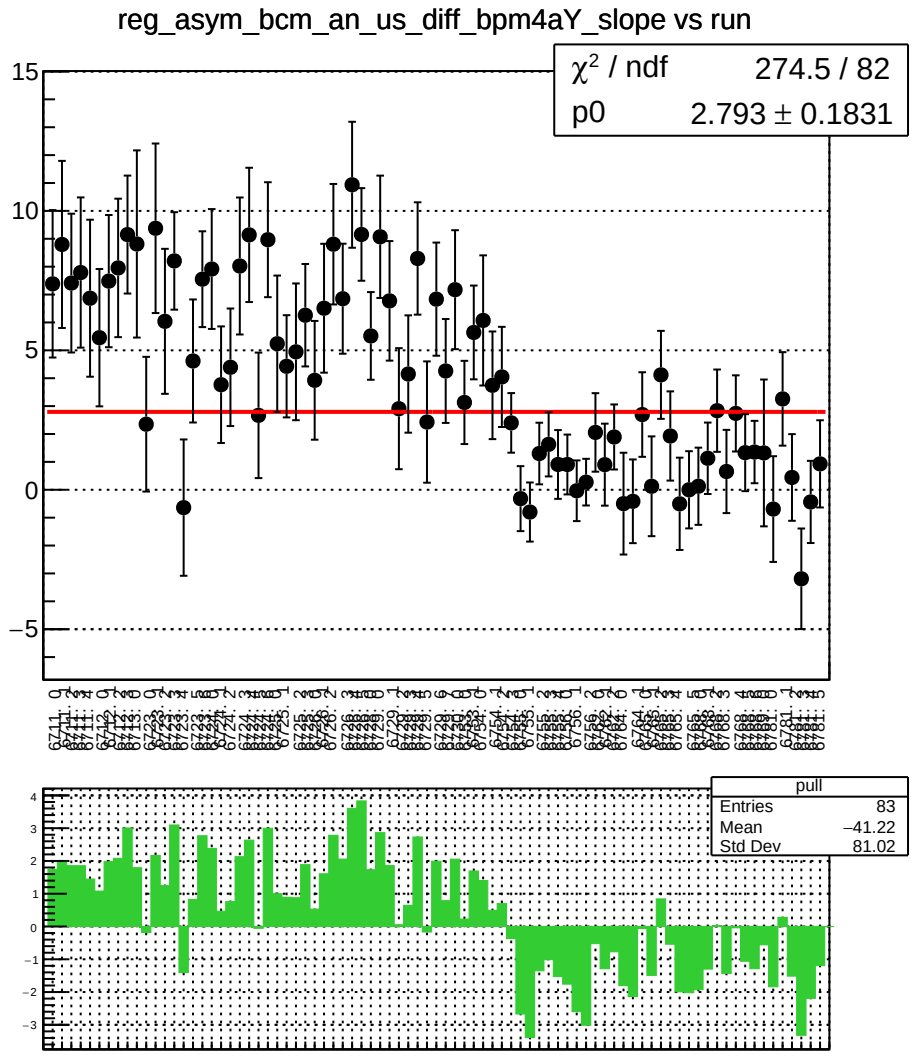

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 307.3 / 82
p0 −4.846 ± 0.2326
pull
Entries 83
Mean −66.41
Std Dev 108.1
pull1D
Entries 83
Mean −0.2914
Std Dev 1.902

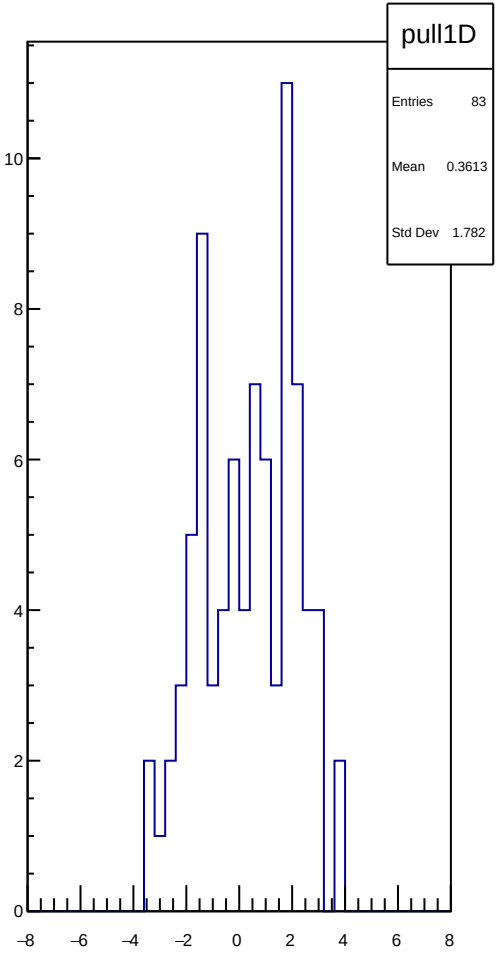

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 206.4 / 82
p0 0.4452 ± 0.01373
pull
Entries 83
Mean −30.44
Std Dev 74.33

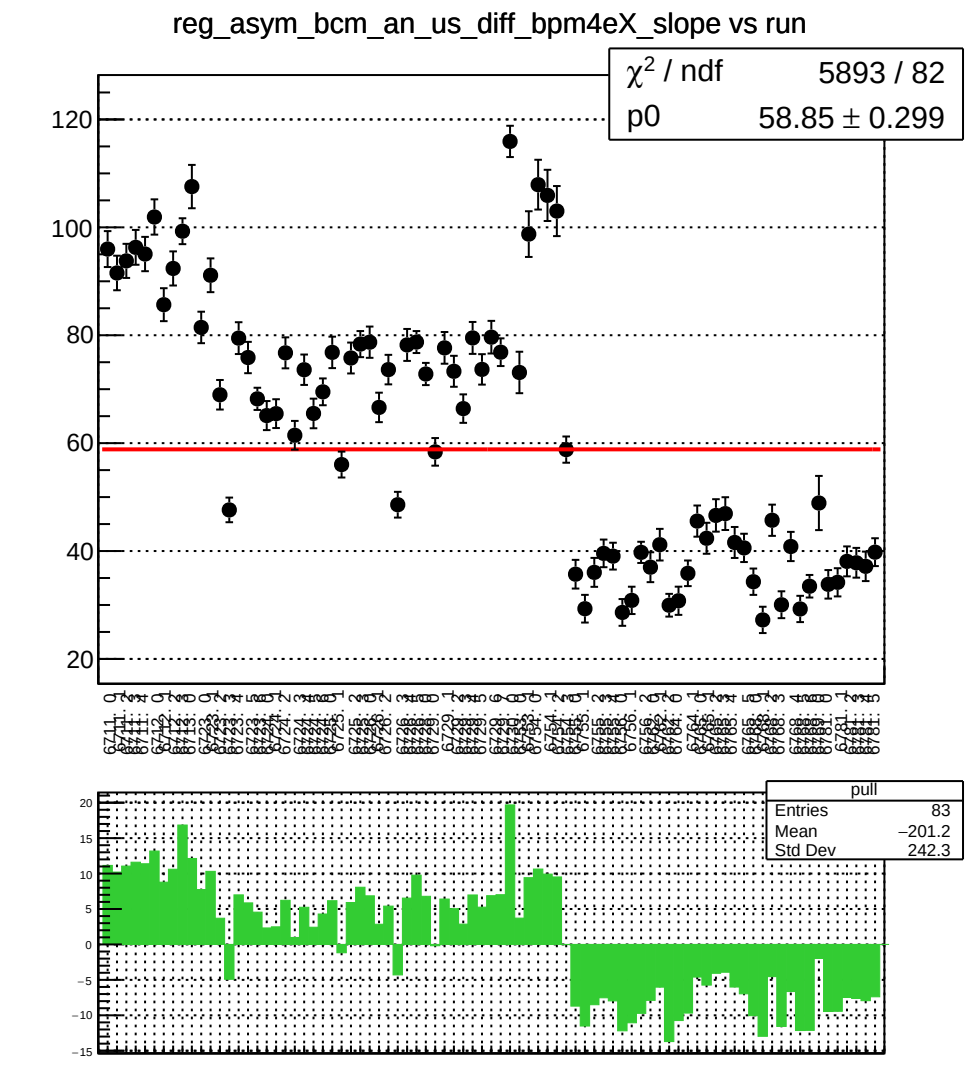

pull1D
Entries 83
Mean 0.163
Std Dev 1.568

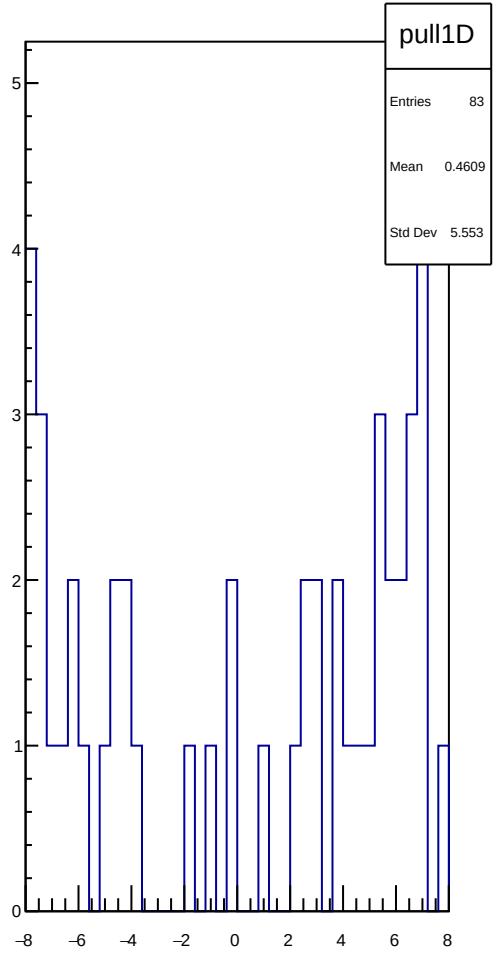

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 5469 / 82
p0 −62.18 ± 0.3129
pull
Entries 83
Mean −242.5
Std Dev 283.6

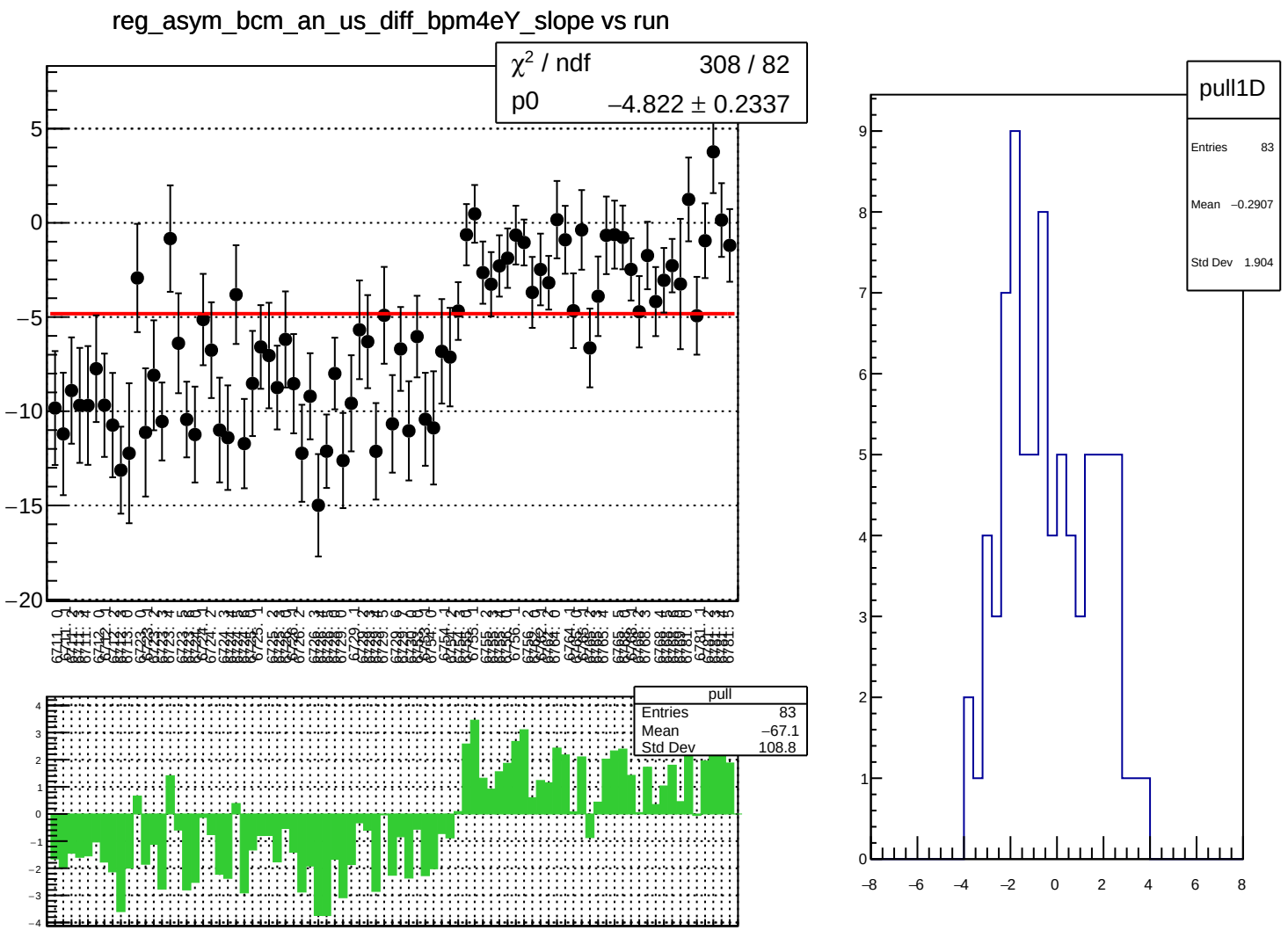

pull1D
Entries 83
Mean −0.3799
Std Dev 5.259

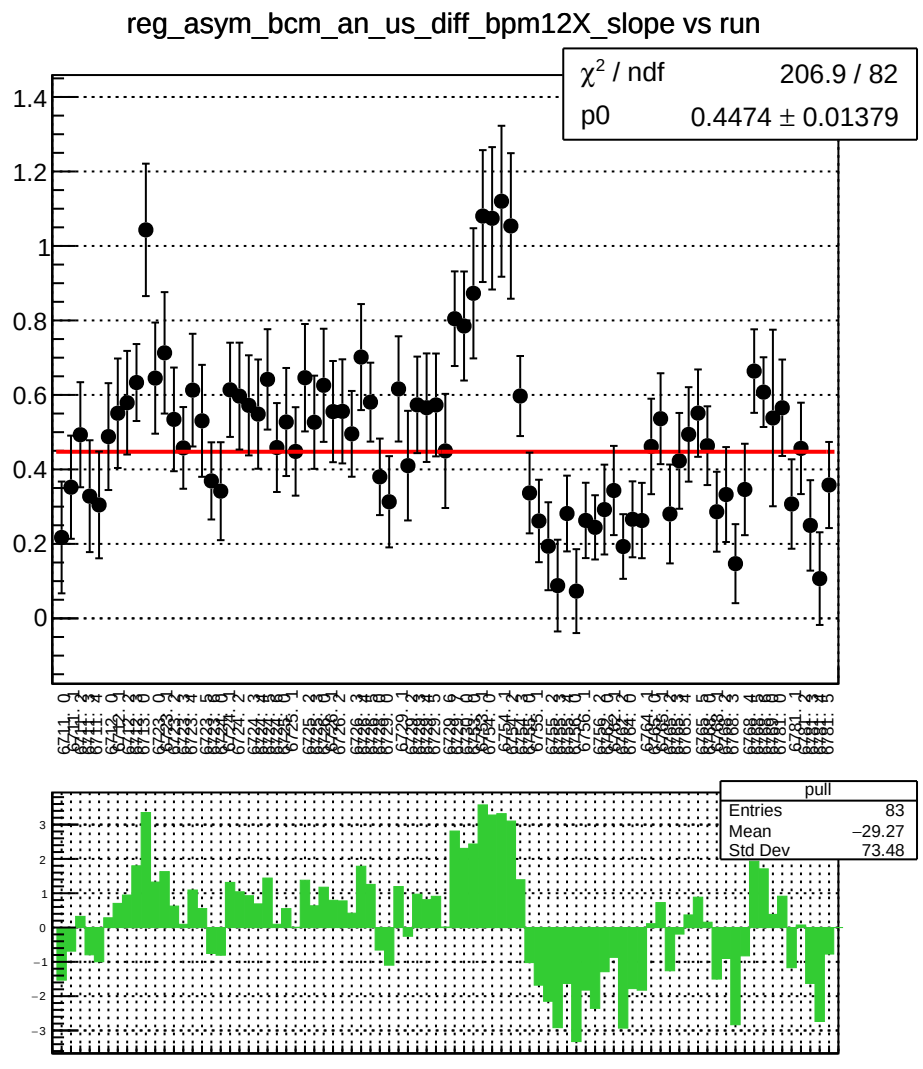

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 274.5 / 82
p0 2.793 ± 0.1831
pull
Entries 83
Mean −41.22
Std Dev 81.02

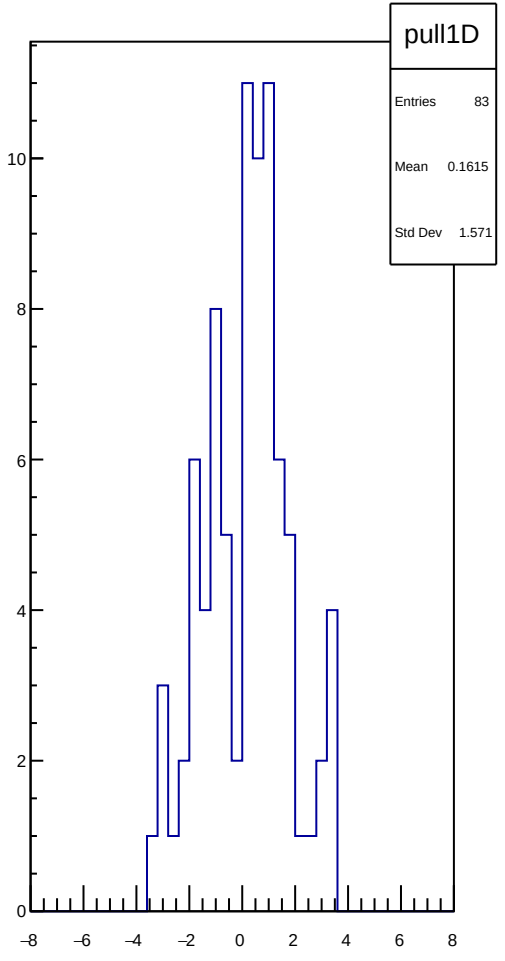

pull1D
Entries 83
Mean 0.3613
Std Dev 1.782

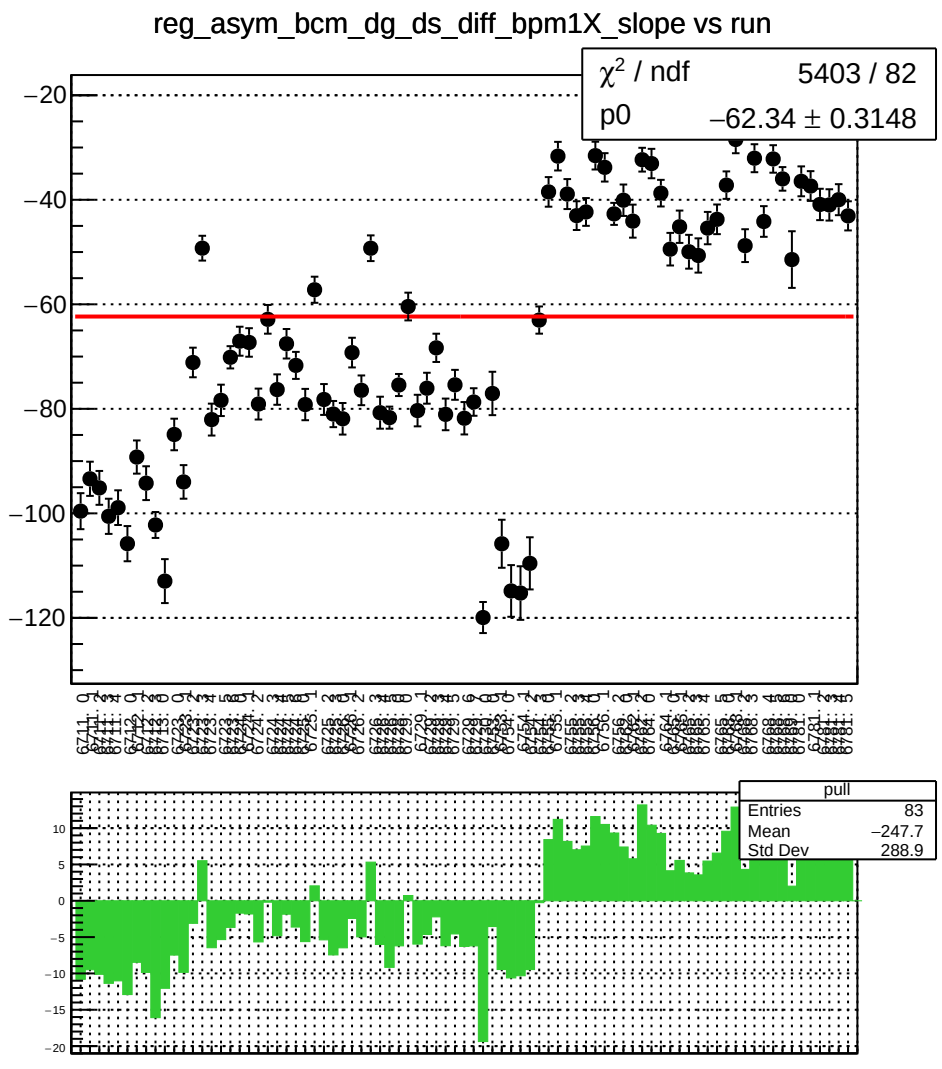

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 5893 / 82
p0 58.85 ± 0.299
pull
Entries 83
Mean −201.2
Std Dev 242.3

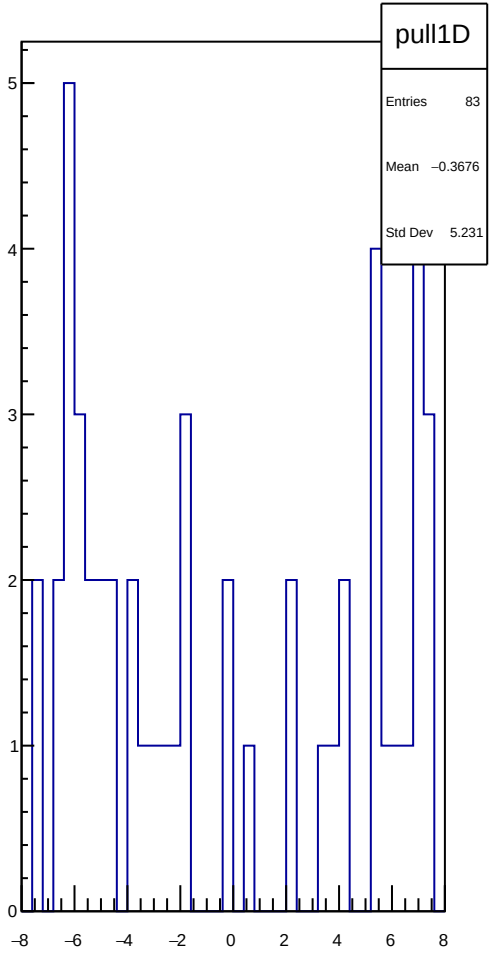

pull1D
Entries 83
Mean 0.4609
Std Dev 5.553

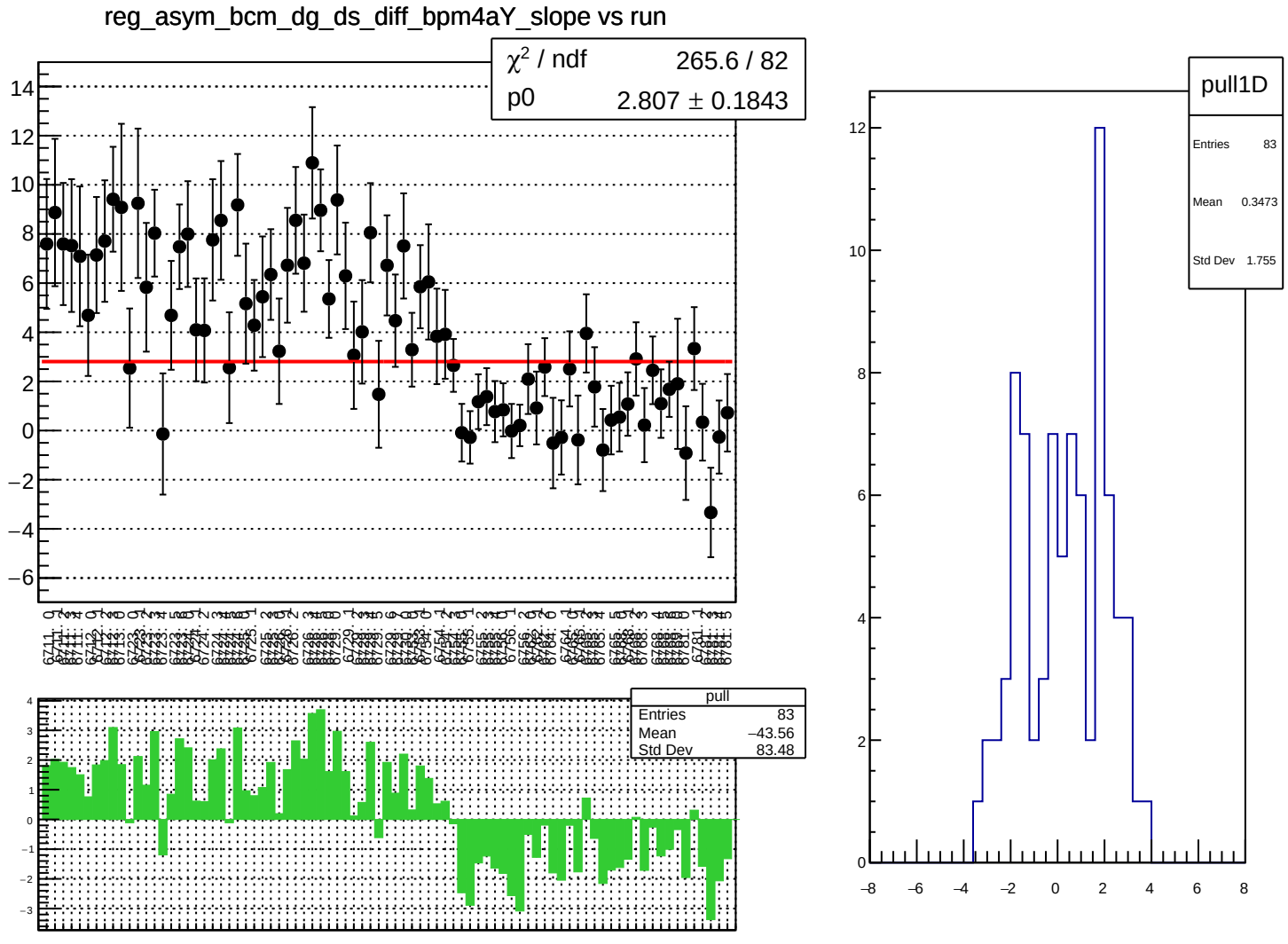

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 308 / 82
p0 −4.822 ± 0.2337
pull
Entries 83
Mean −67.1
Std Dev 108.8
pull1D
Entries 83
Mean −0.2907
Std Dev 1.904

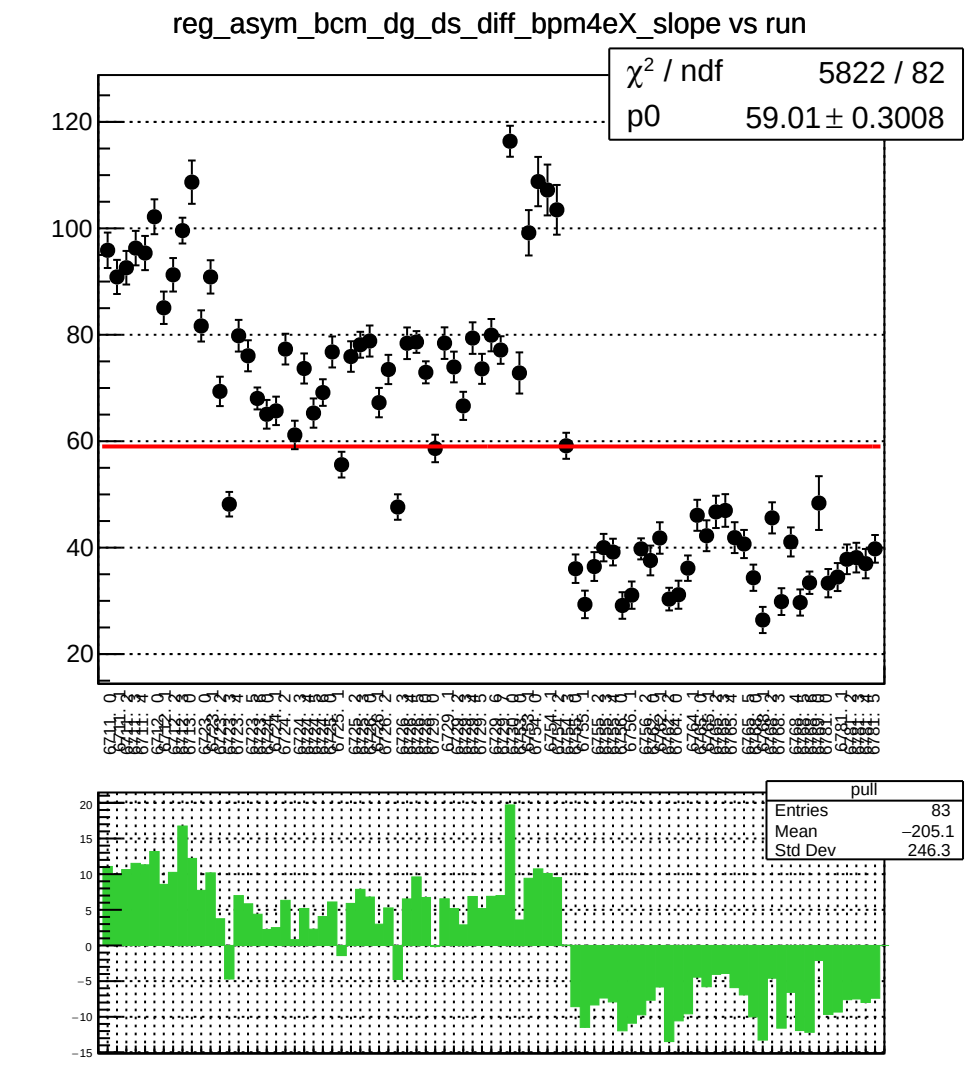

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 206.9 / 82
p0 0.4474 ± 0.01379
pull
Entries 83
Mean −29.27
Std Dev 73.48

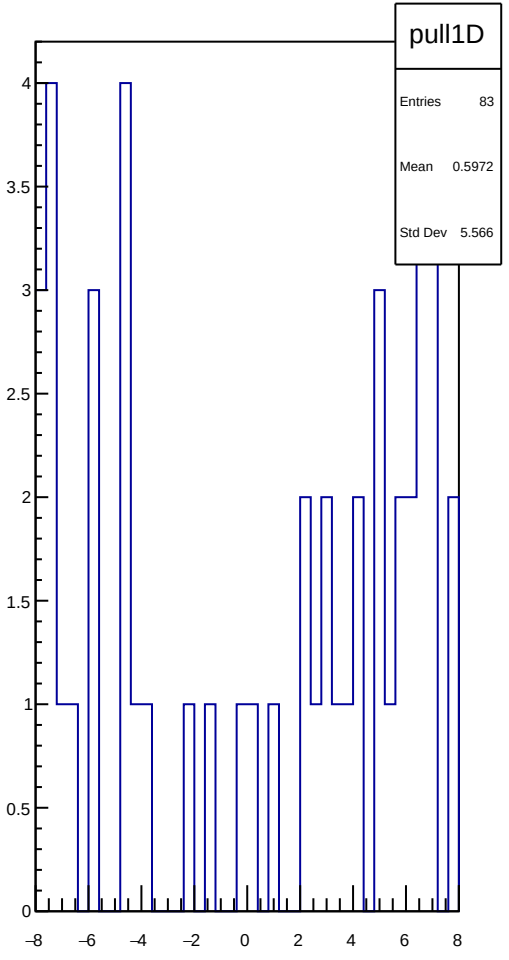

pull1D
Entries 83
Mean 0.1615
Std Dev 1.571

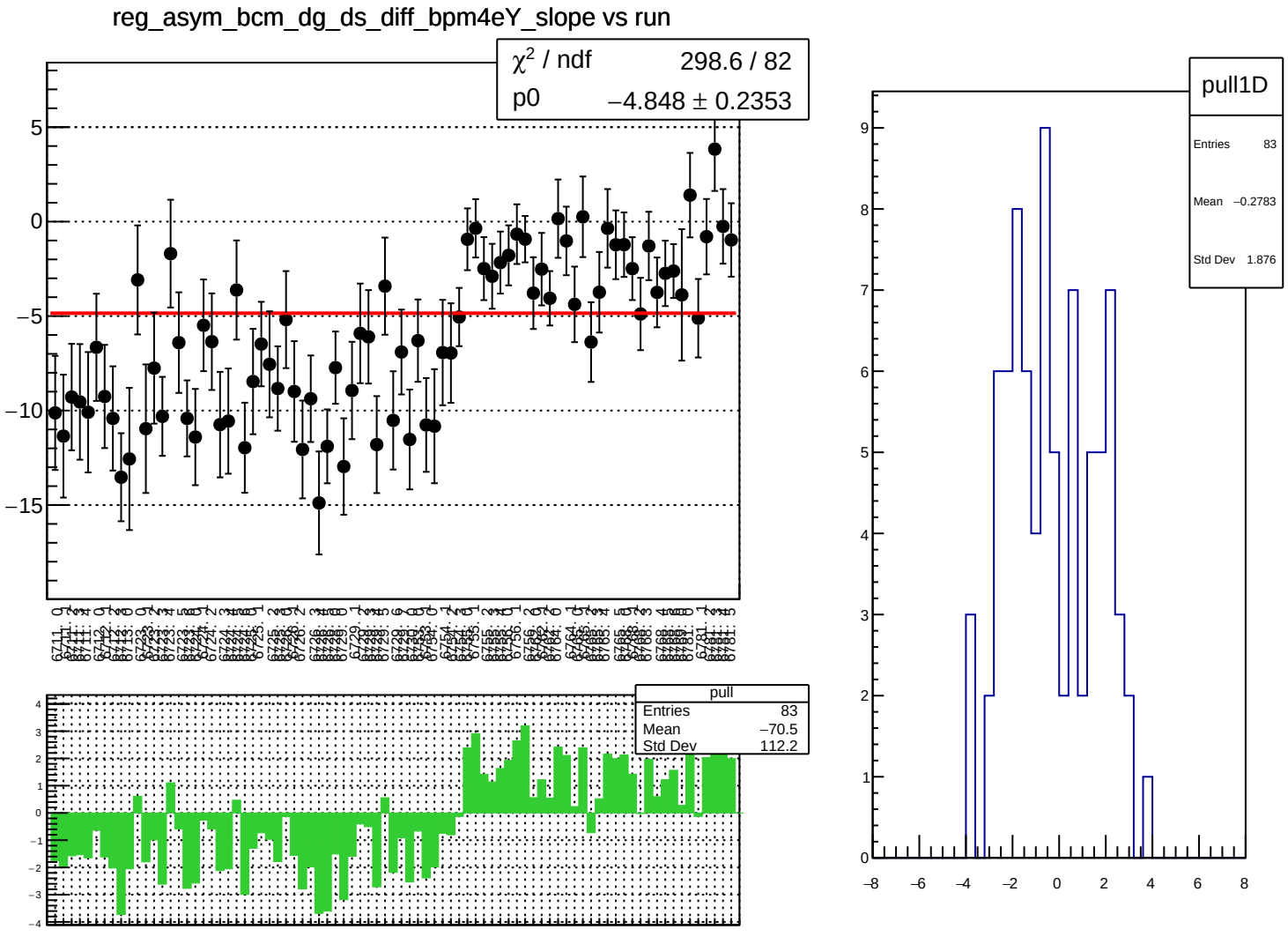

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 5403 / 82
p0 −62.34 ± 0.3148
pull
Entries 83
Mean −247.7
Std Dev 288.9

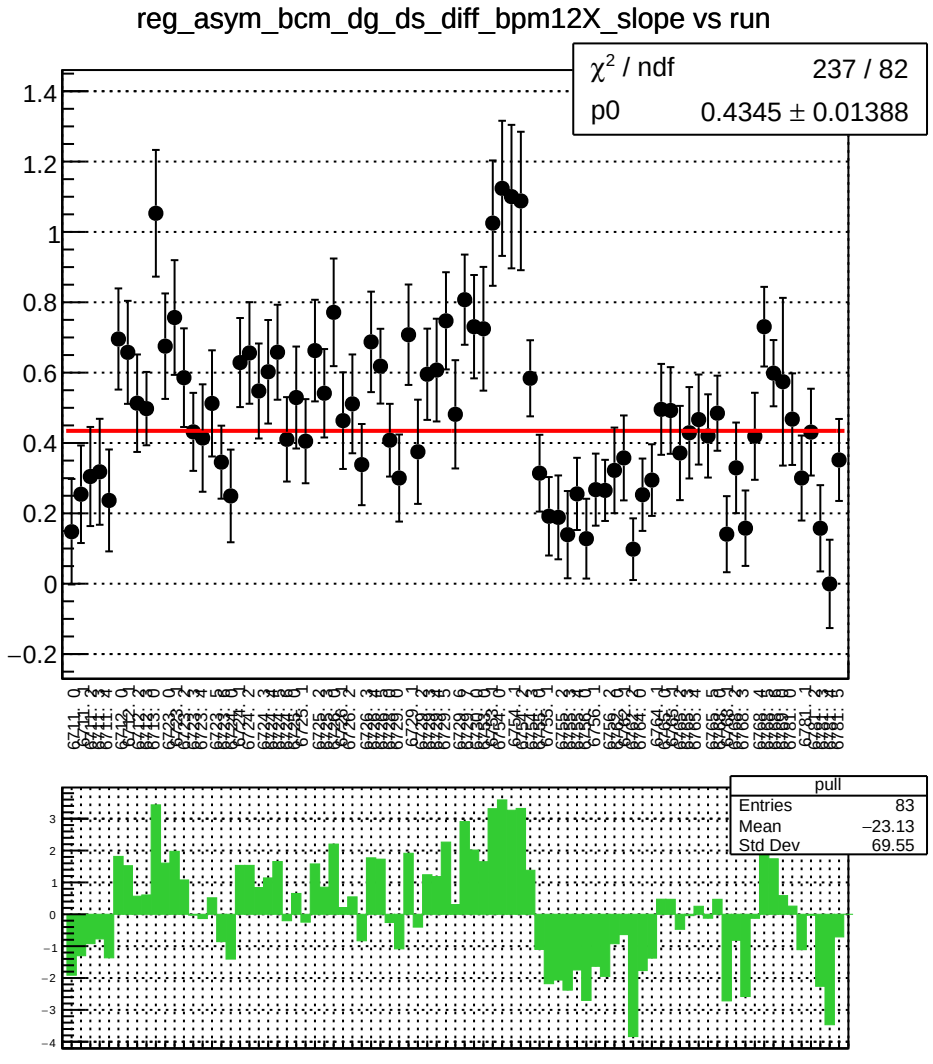

pull1D
Entries 83
Mean −0.3676
Std Dev 5.231

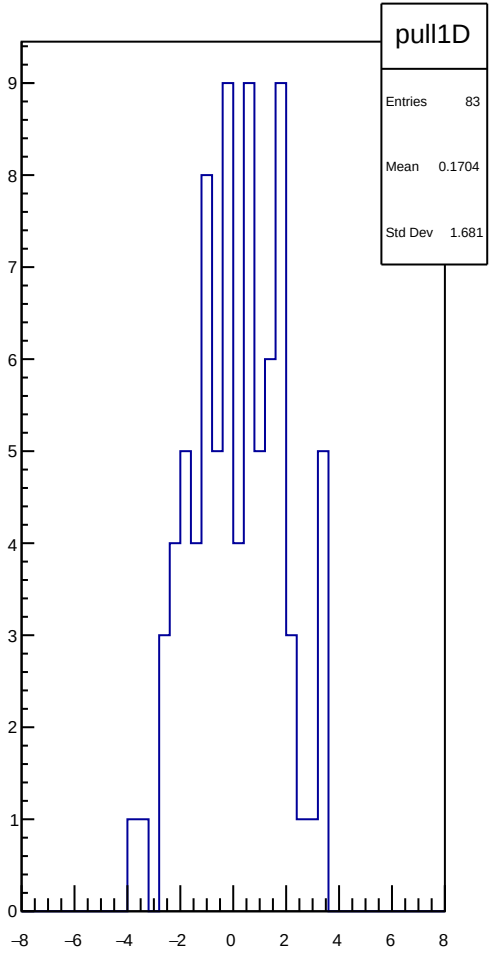

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 265.6 / 82
p0 2.807 ± 0.1843
pull
Entries 83
Mean −43.56
Std Dev 83.48
pull1D
Entries 83
Mean 0.3473
Std Dev 1.755

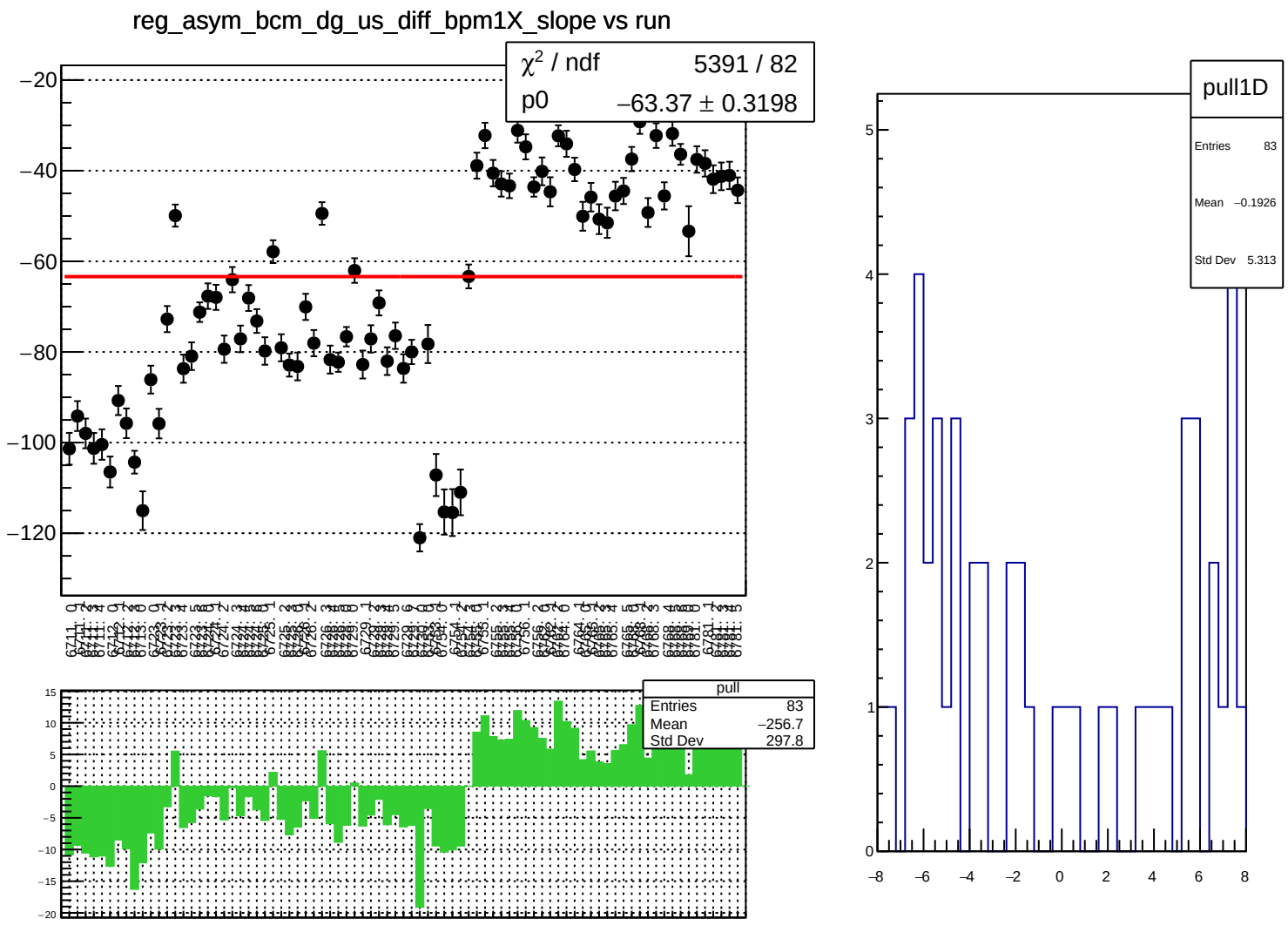

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 5822 / 82
p0 59.01 ± 0.3008
pull
Entries 83
Mean −205.1
Std Dev 246.3

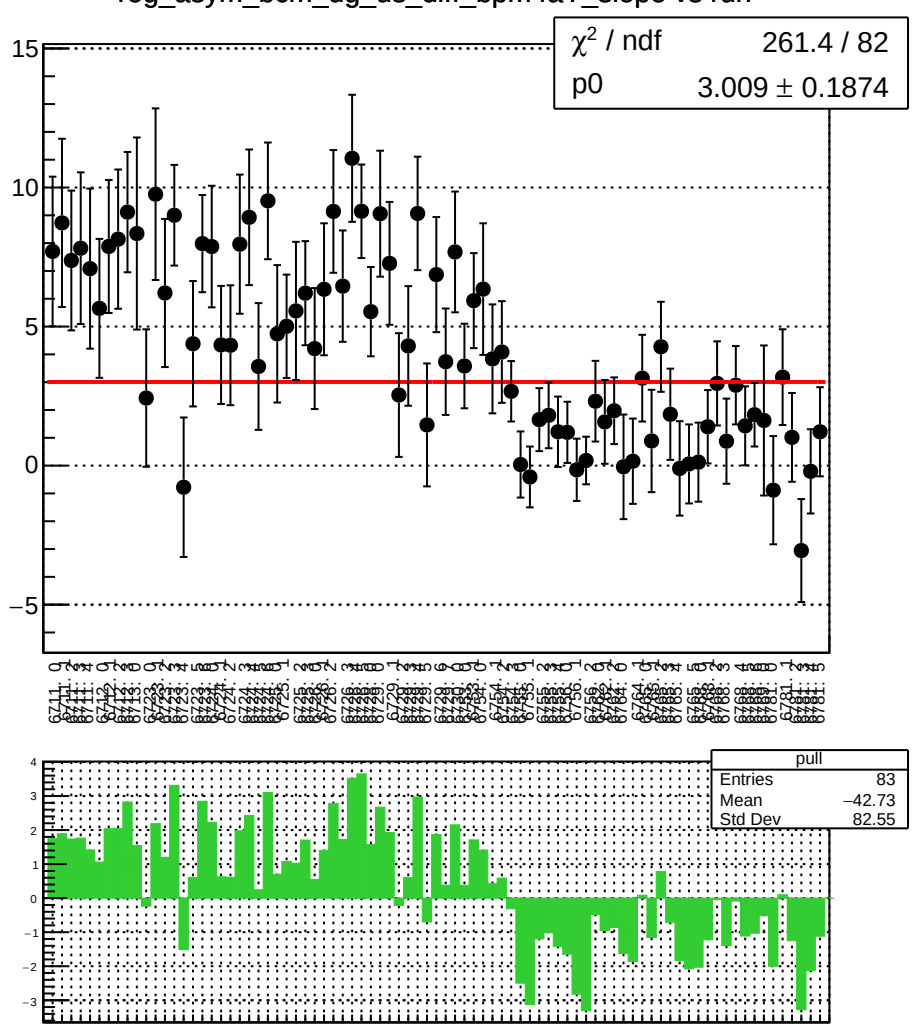

pull1D
Entries 83
Mean 0.5972
Std Dev 5.566

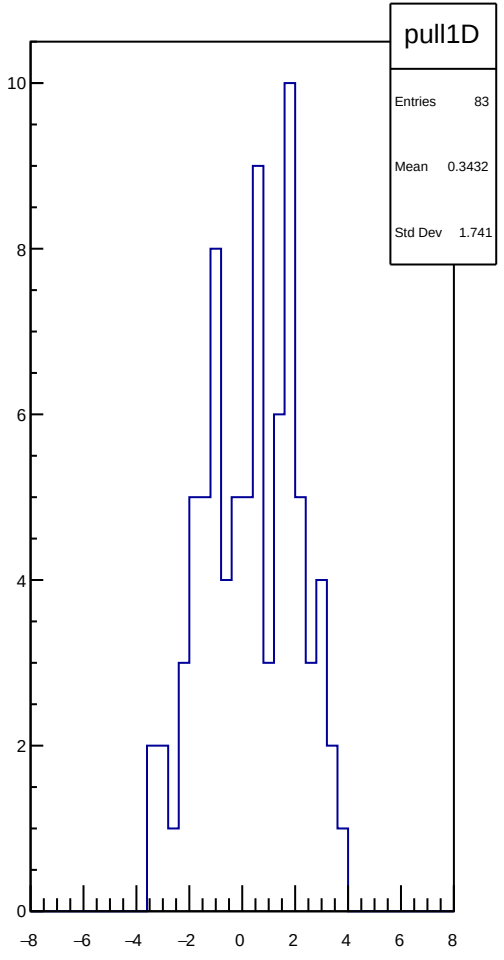

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 298.6 / 82
p0 −4.848 ± 0.2353
pull
Entries 83
Mean −70.5
Std Dev 112.2
pull1D
Entries 83
Mean −0.2783
Std Dev 1.876

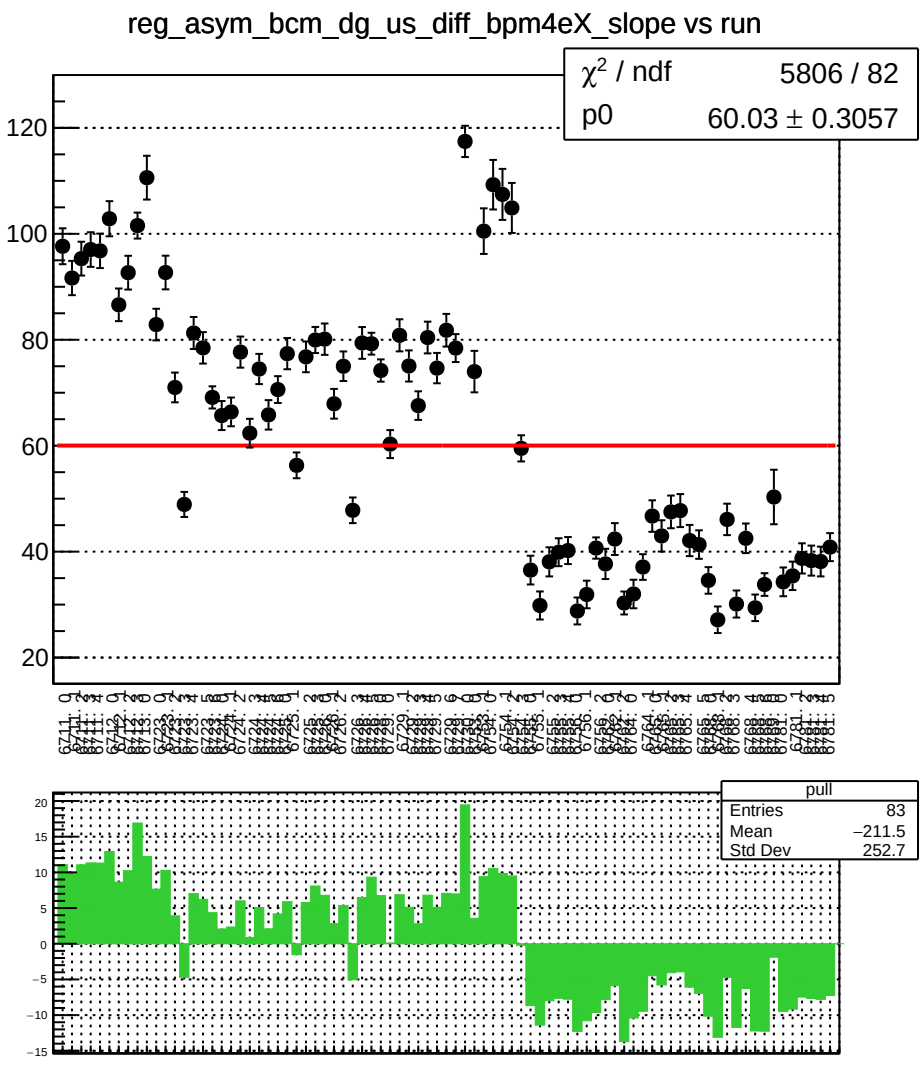

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 237 / 82
p0 0.4345 ± 0.01388
pull
Entries 83
Mean −23.13
Std Dev 69.55

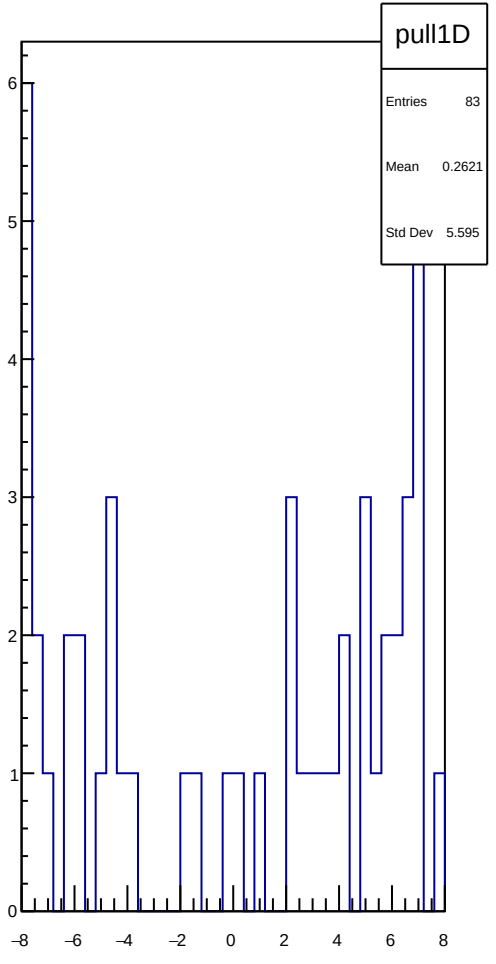

pull1D
Entries 83
Mean 0.1704
Std Dev 1.681

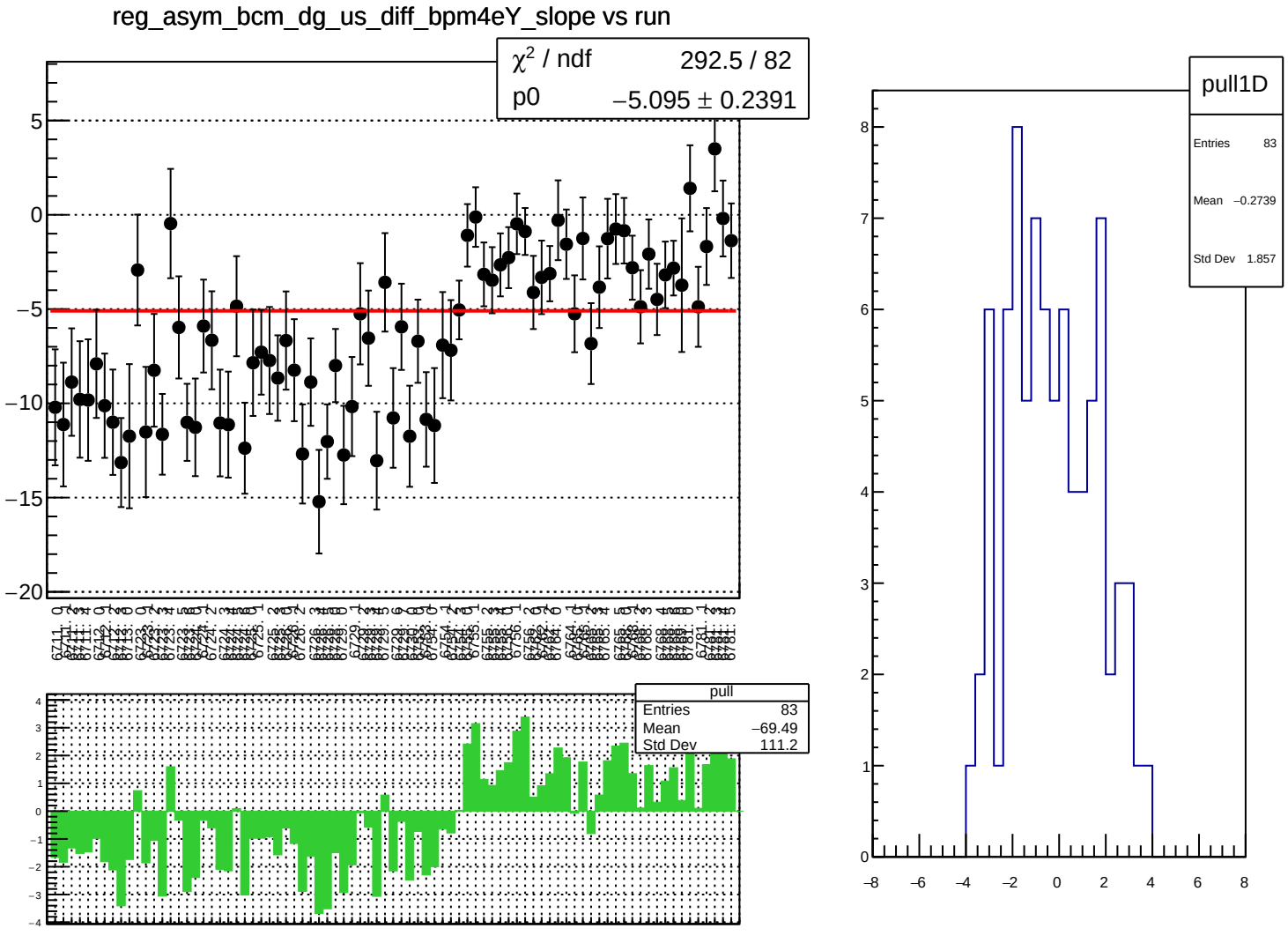

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 5391 / 82
p0 −63.37 ± 0.3198
pull
Entries 83
Mean −256.7
Std Dev 297.8
pull1D
Entries 83
Mean −0.1926
Std Dev 5.313

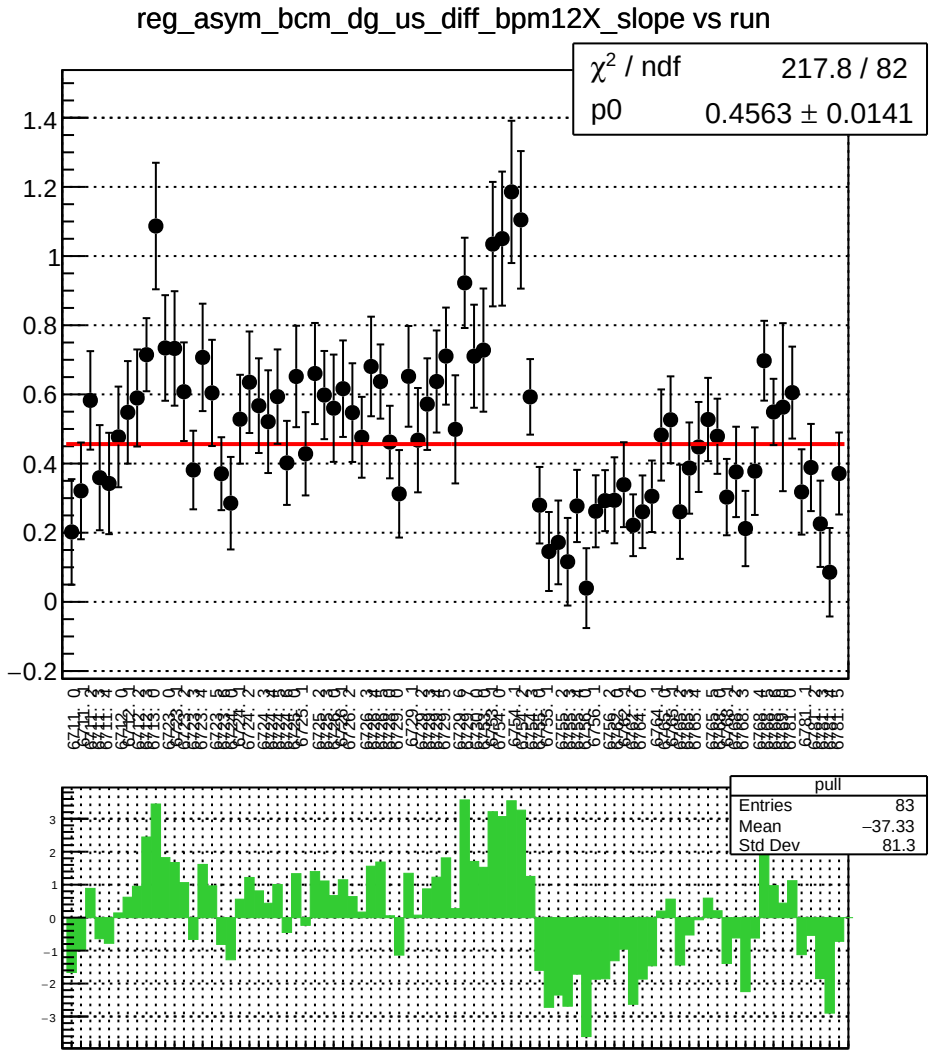

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 261.4 / 82
p0 3.009 ± 0.1874
pull
Entries 83
Mean −42.73
Std Dev 82.55

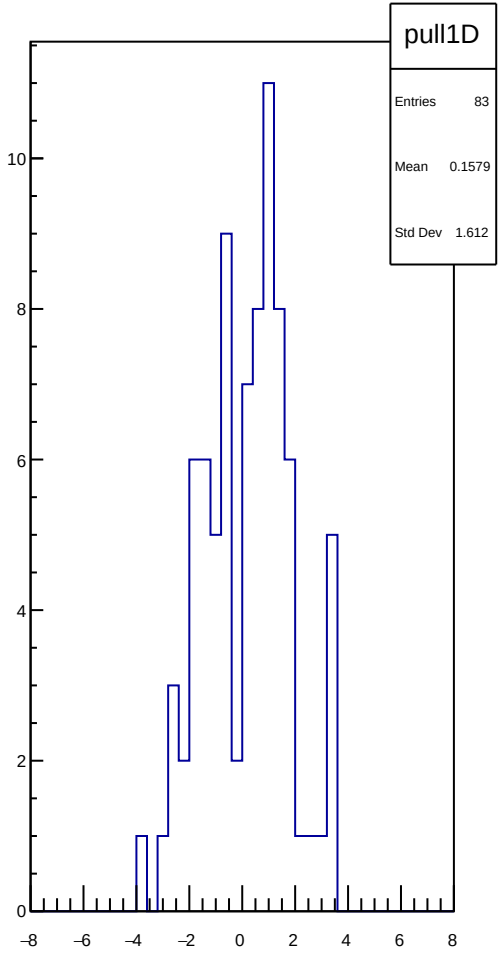

pull1D
Entries 83
Mean 0.3432
Std Dev 1.741

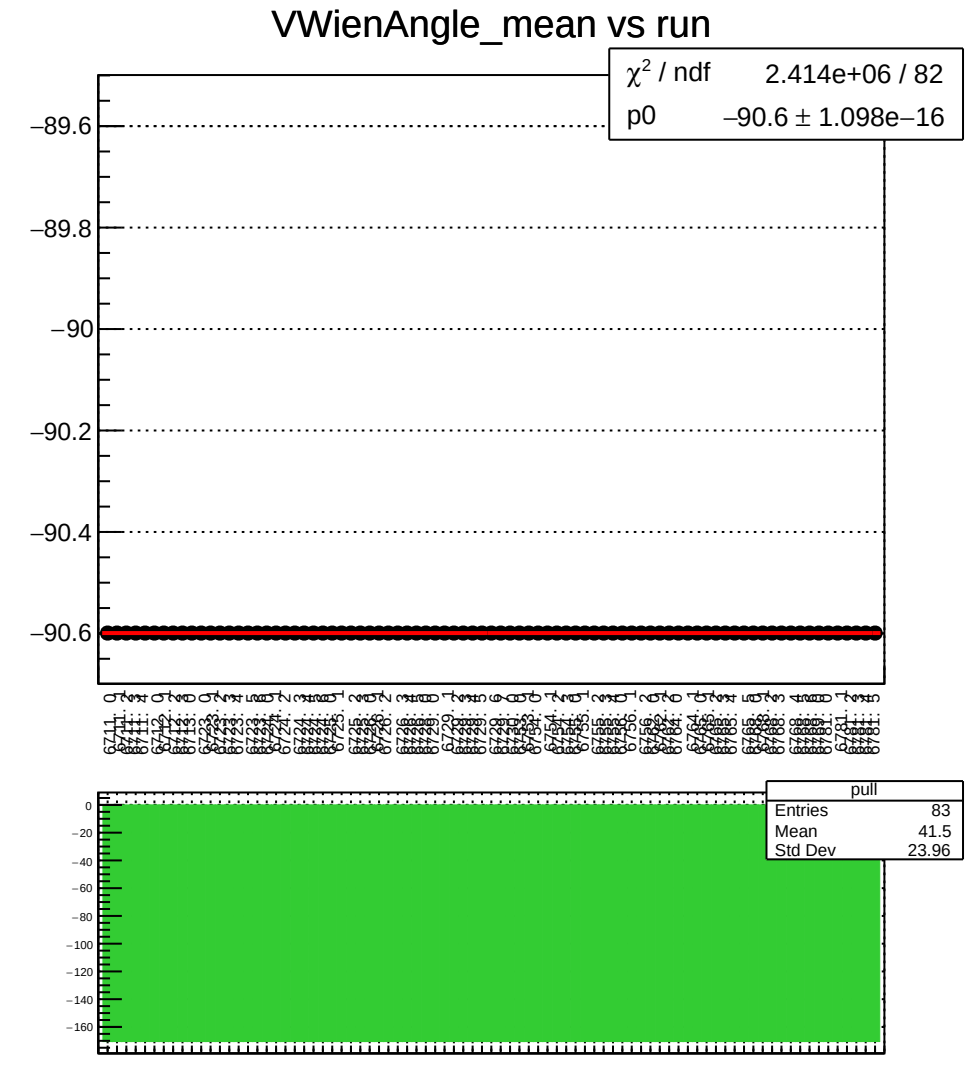

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 5806 / 82
p0 60.03 ± 0.3057
pull
Entries 83
Mean −211.5
Std Dev 252.7

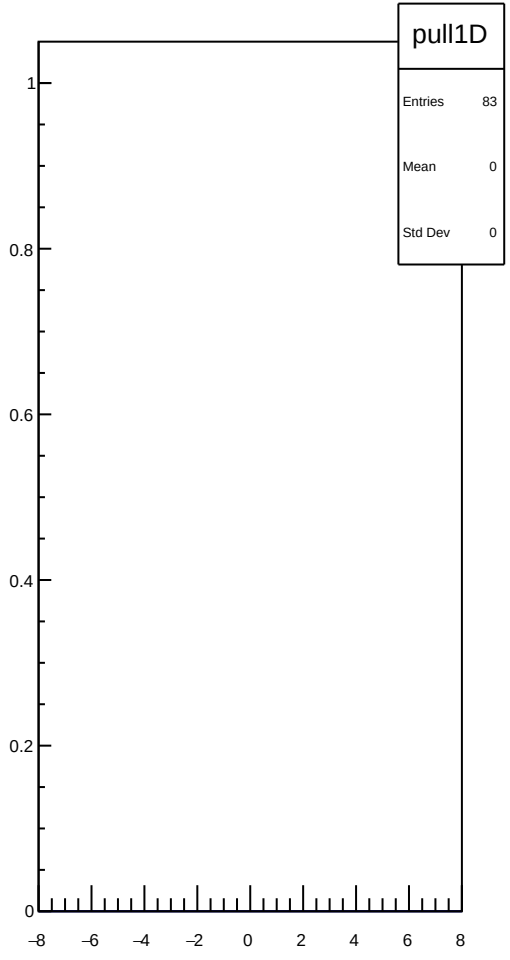

pull1D
Entries 83
Mean 0.2621
Std Dev 5.595

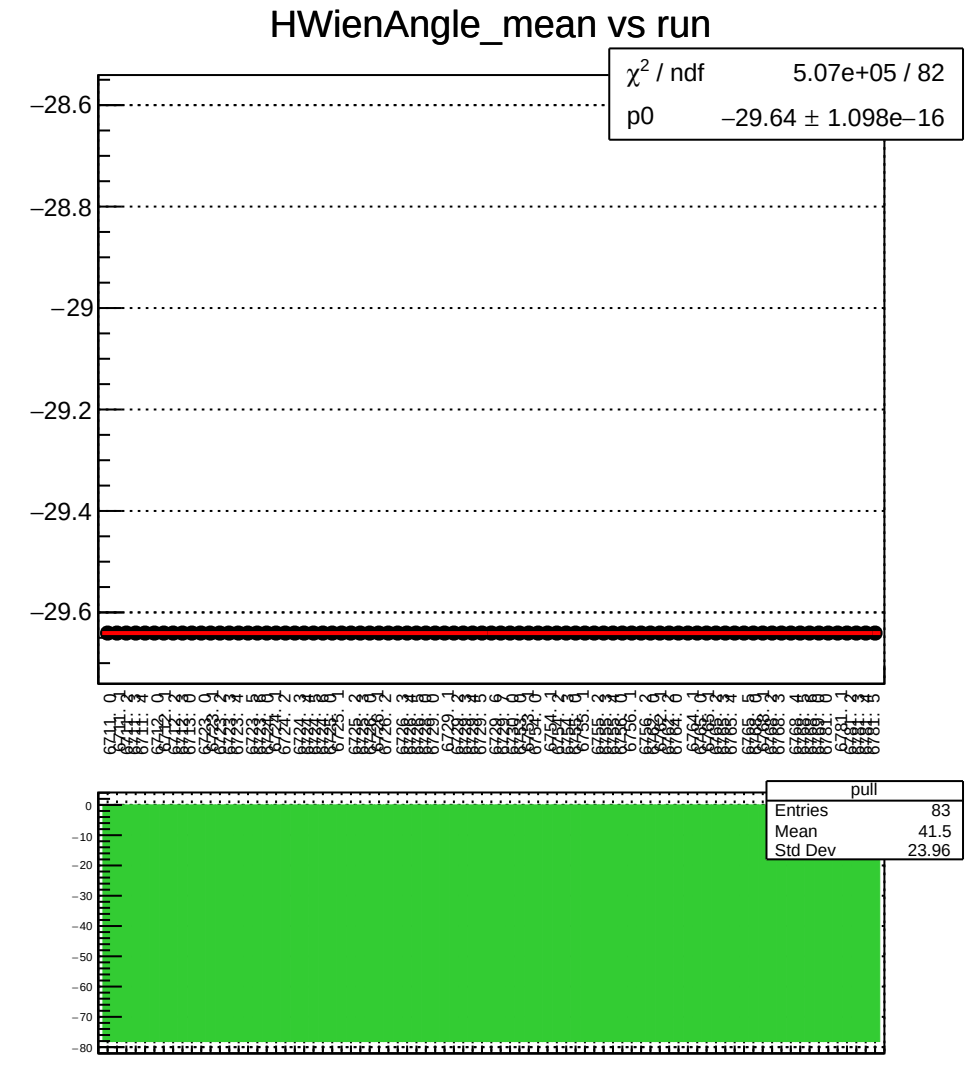

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 292.5 / 82
p0 −5.095 ± 0.2391
pull
Entries 83
Mean −69.49
Std Dev 111.2
pull1D
Entries 83
Mean −0.2739
Std Dev 1.857

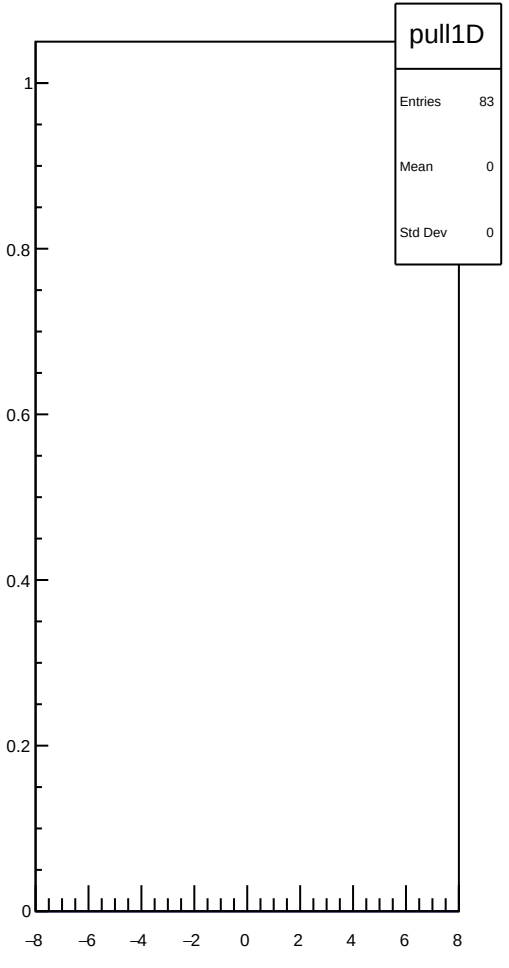

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 217.8 / 82
p0 0.4563 ± 0.0141
pull
Entries 83
Mean −37.33
Std Dev 81.3

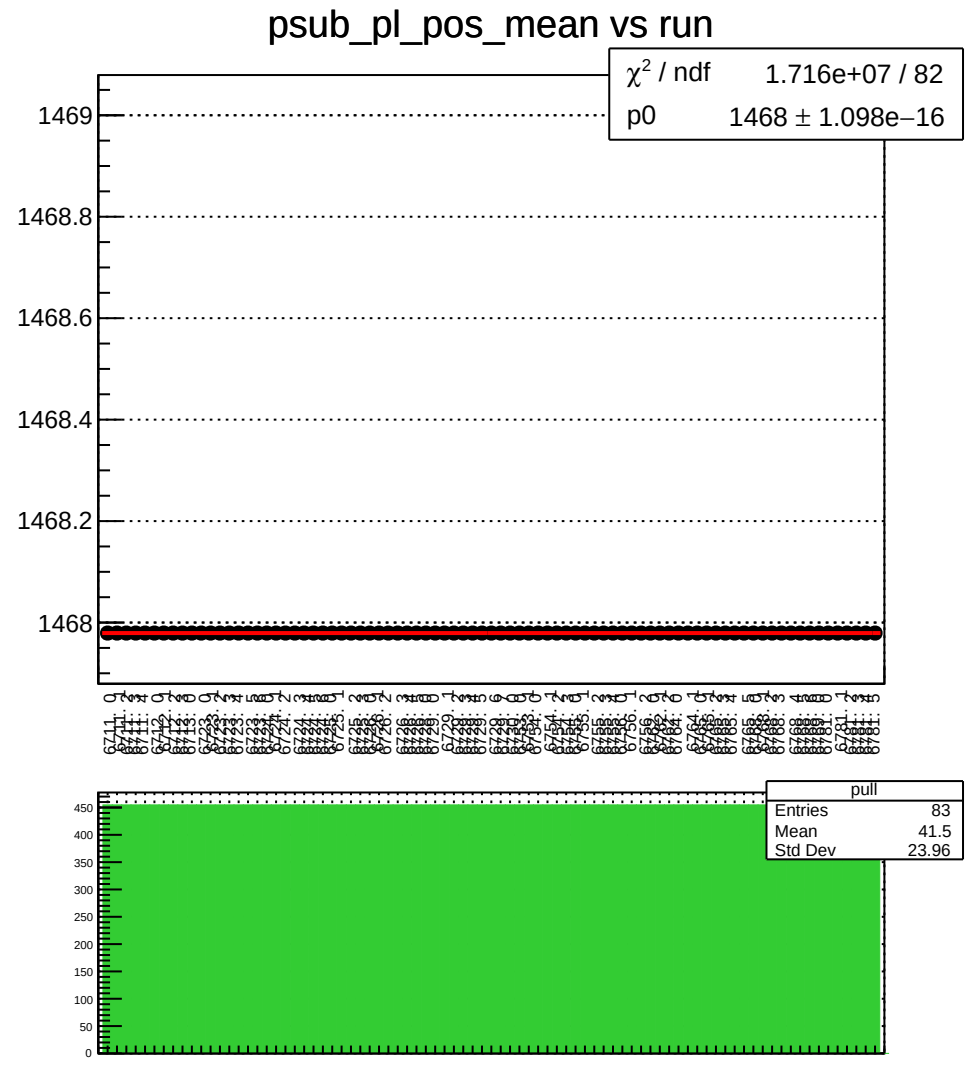

pull1D
Entries 83
Mean 0.1579
Std Dev 1.612

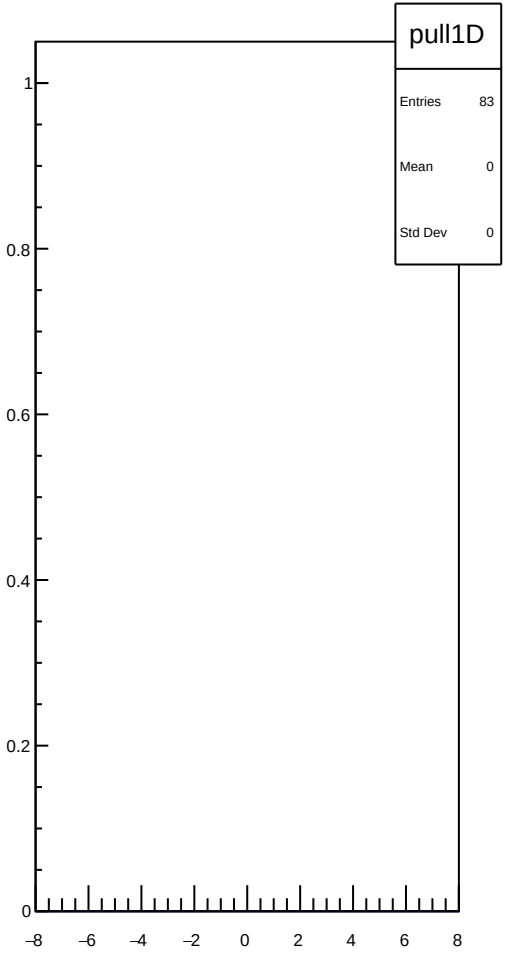

VWienAngle_mean vs run
χ² / ndf 2.414e+06 / 82
p0 −90.6 ± 1.098e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 83
Mean 41.5
Std Dev 23.96
0
−20
−40
−60
−80
−100
−120
−140
−160

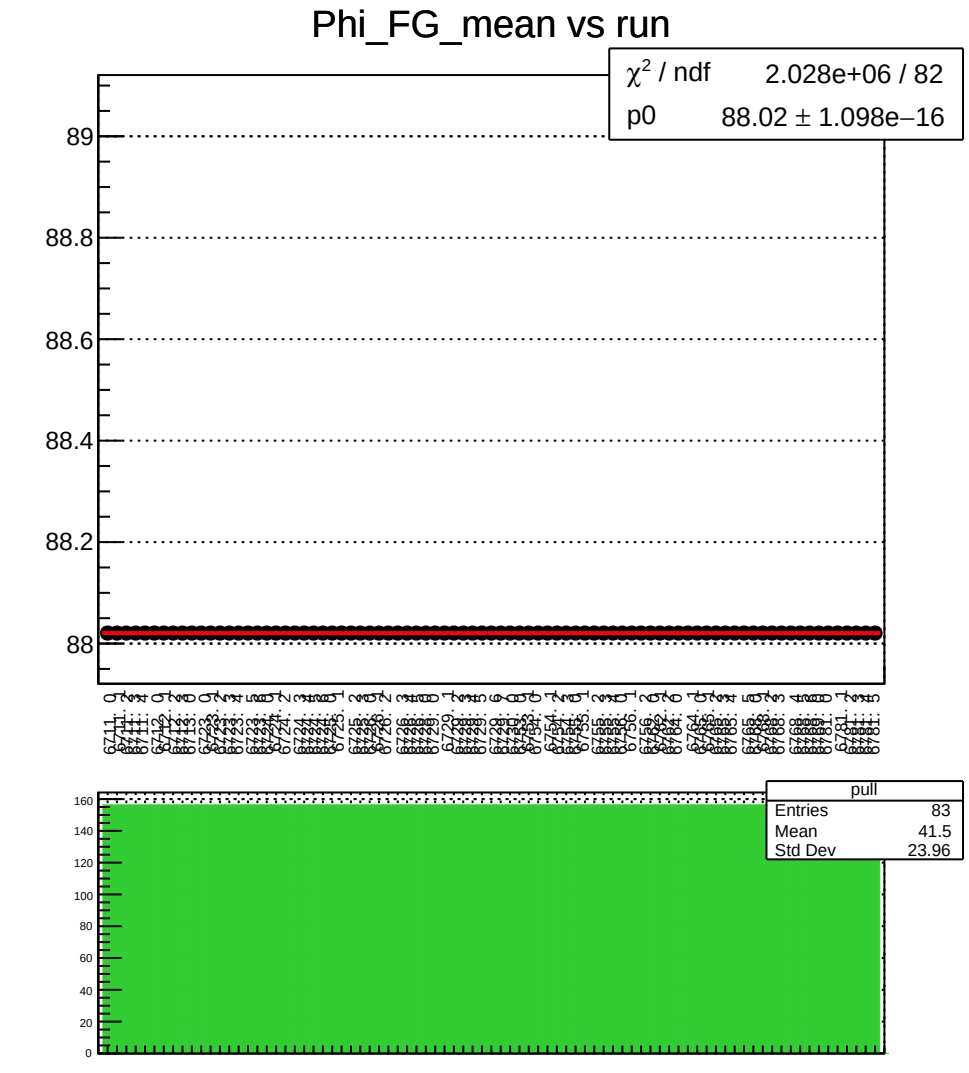

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

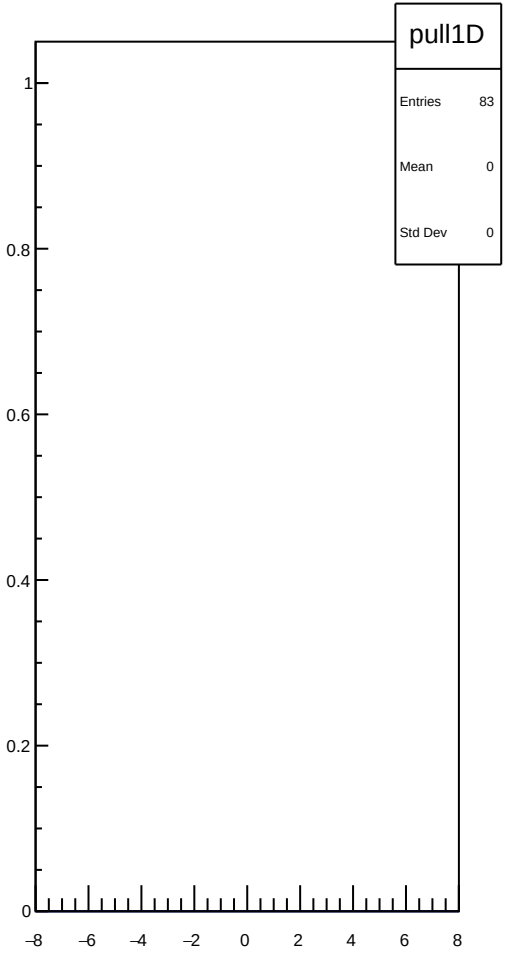

HWienAngle_mean vs run
χ² / ndf 5.07e+05 / 82
p0 −29.64 ± 1.098e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 83
Mean 41.5
Std Dev 23.96
0
−10
−20
−30
−40
−50
−60
−70
−80

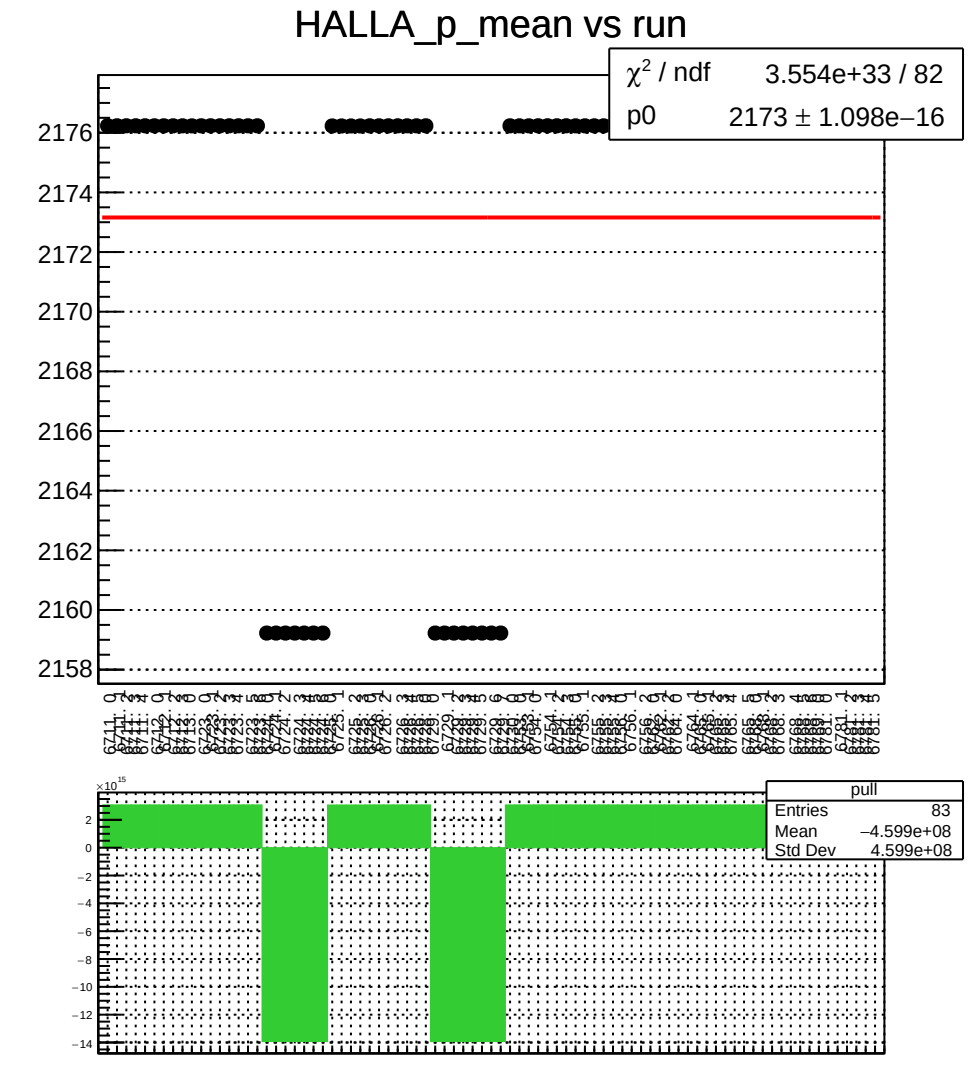

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

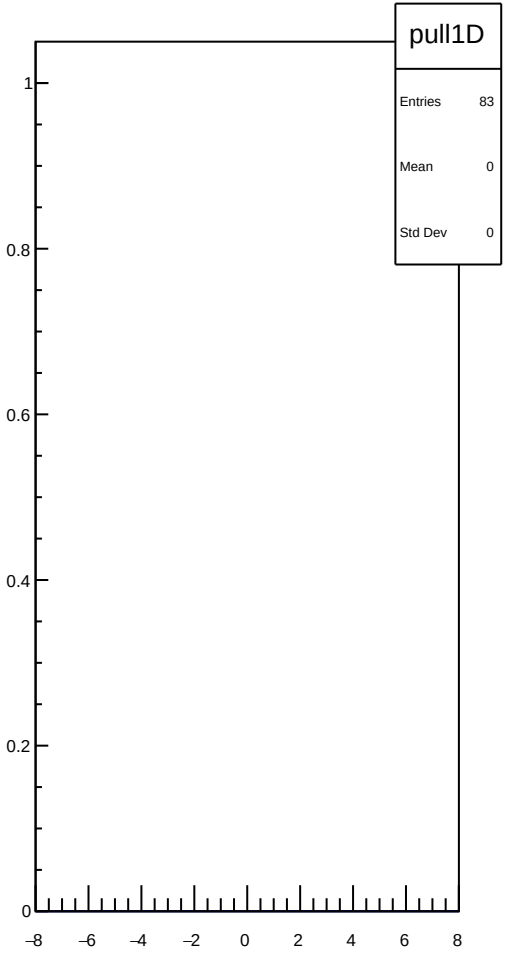

psub_pl_pos_mean vs run
χ² / ndf 1.716e+07 / 82
p0 1468 ± 1.098e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 83
Mean 41.5
Std Dev 23.96
450
400
350
300
250
200
150
100
50
0

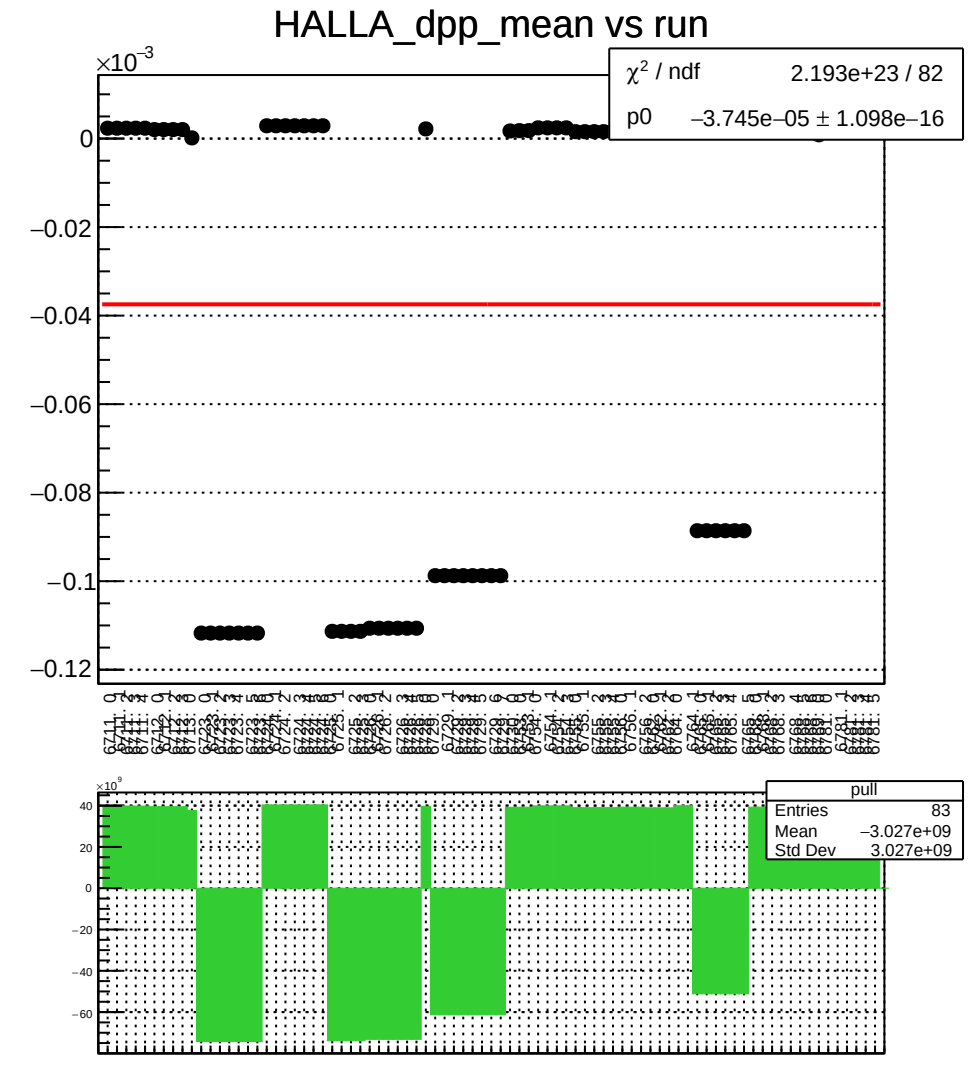

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

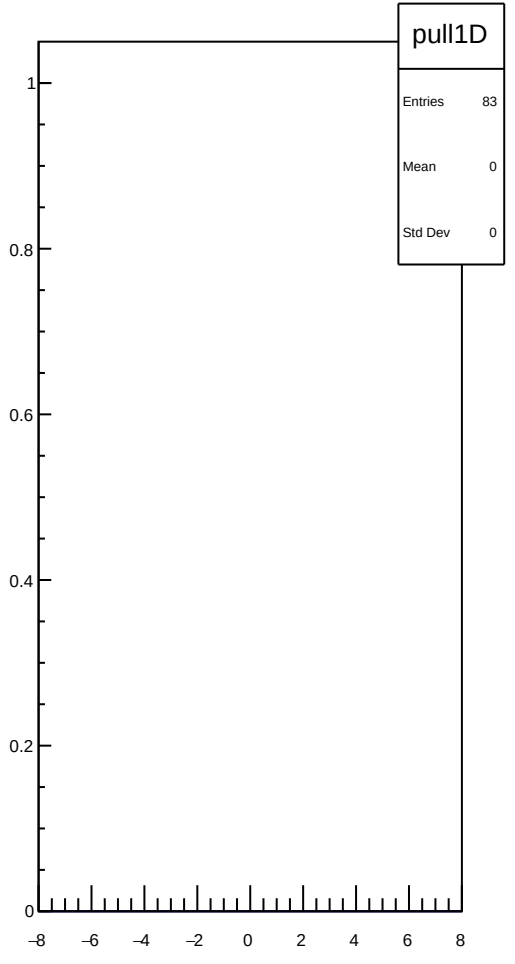

Phi_FG_mean vs run
χ² / ndf 2.028e+06 / 82
p0 88.02 ± 1.098e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 83
Mean 41.5
Std Dev 23.96
160
140
120
100
80
60
40
20
0

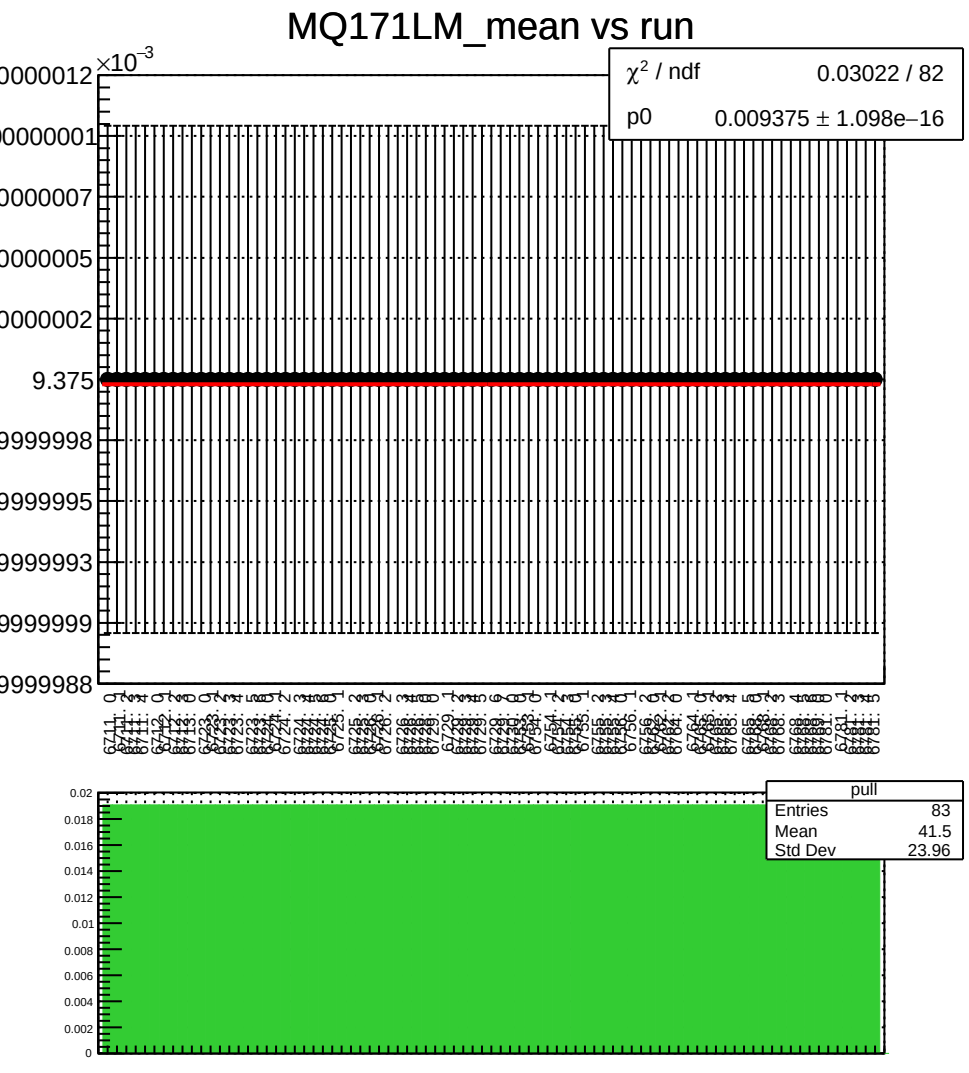

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

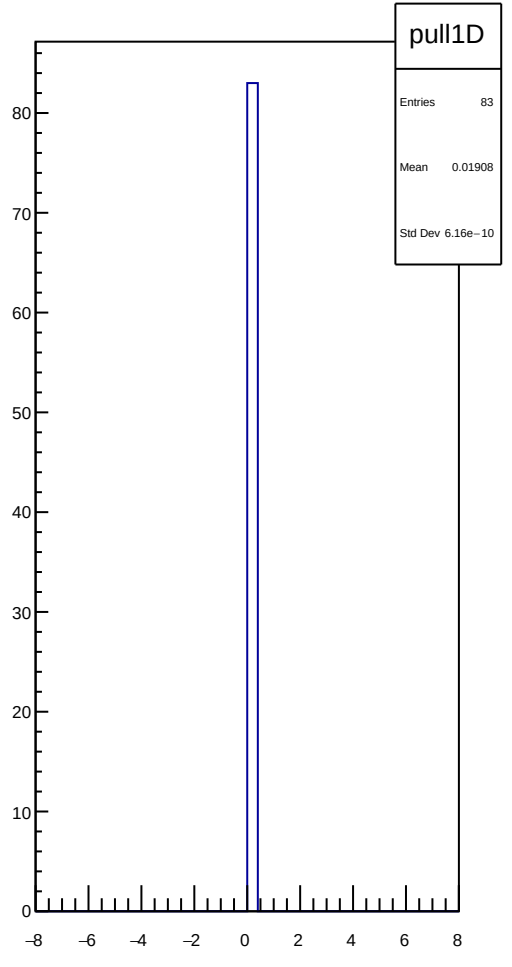

HALLA_p_mean vs run
χ² / ndf 3.554e+33 / 82
p0 2173 ± 1.098e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 83
Mean −4.599e+08
Std Dev 4.599e+08
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14

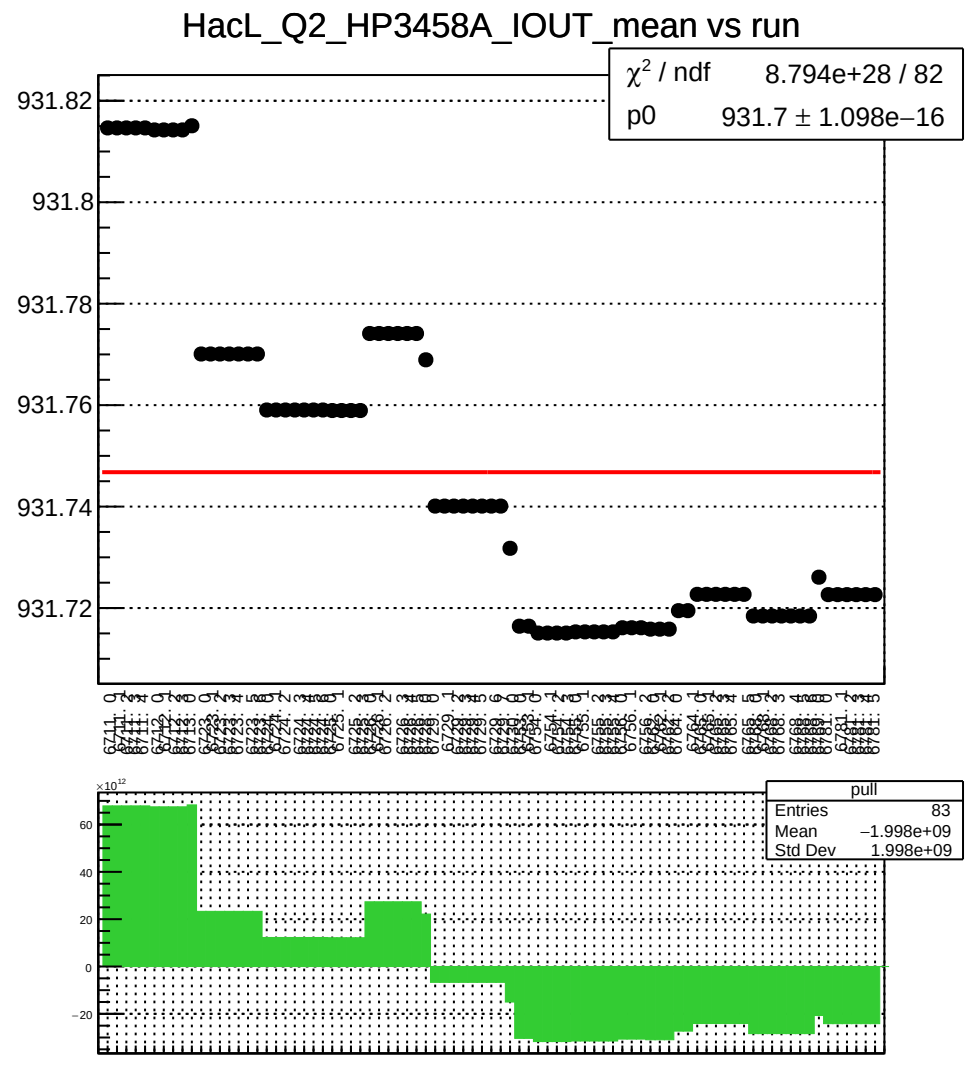

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

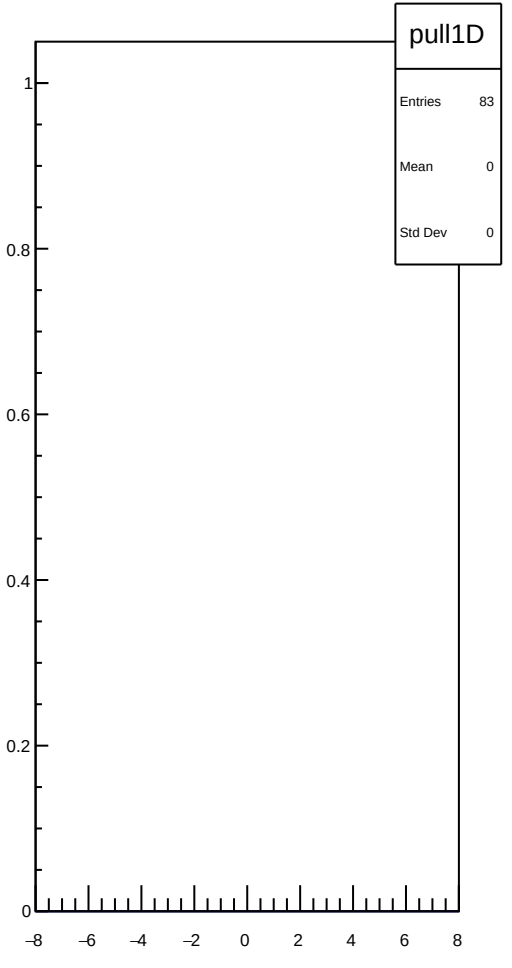

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.193e+23 / 82
p0 −3.745e−05 ± 1.098e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
pull
Entries 83
Mean −3.027e+09
Std Dev 3.027e+09
40
20
0
−20
−40
−60

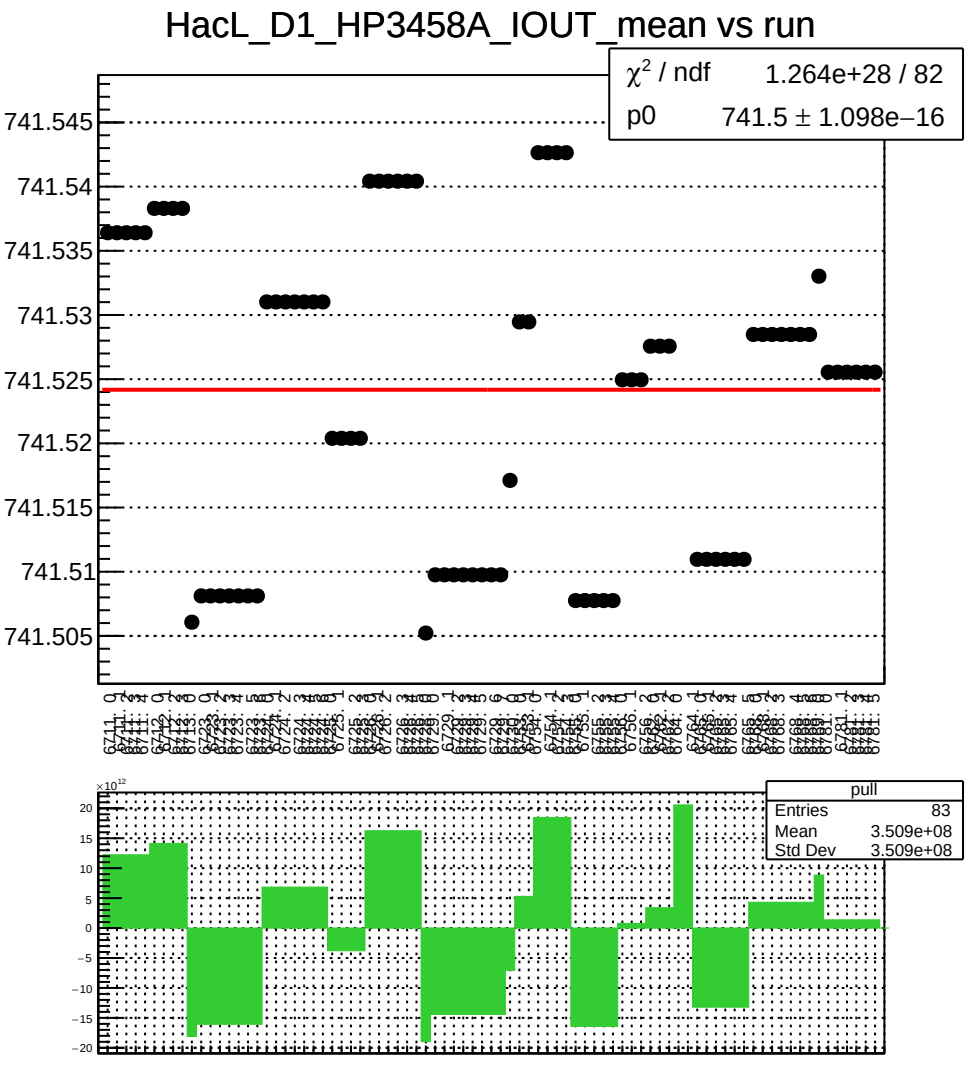

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

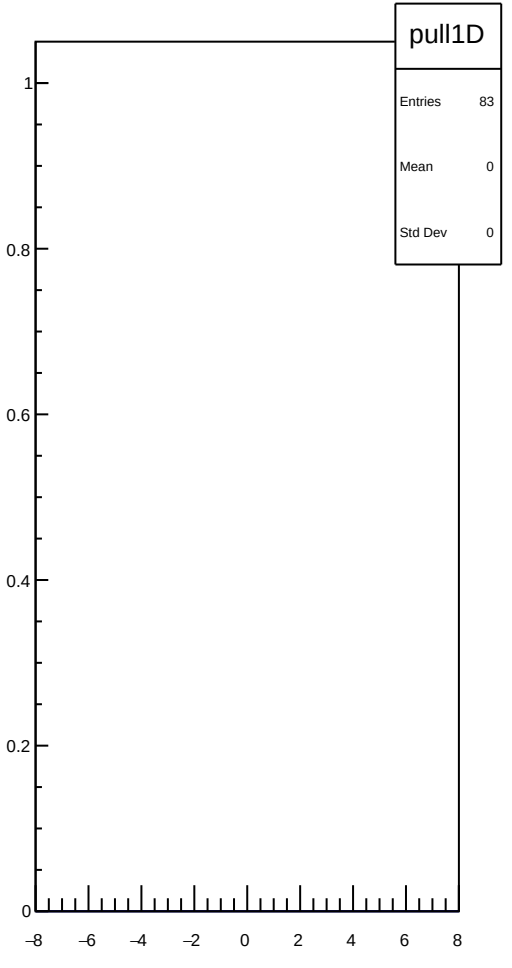

MQ171LM_mean vs run
χ² / ndf 0.03022 / 82
p0 0.009375 ± 1.098e−16
×10⁻³
9.375
pull
Entries 83
Mean 41.5
Std Dev 23.96

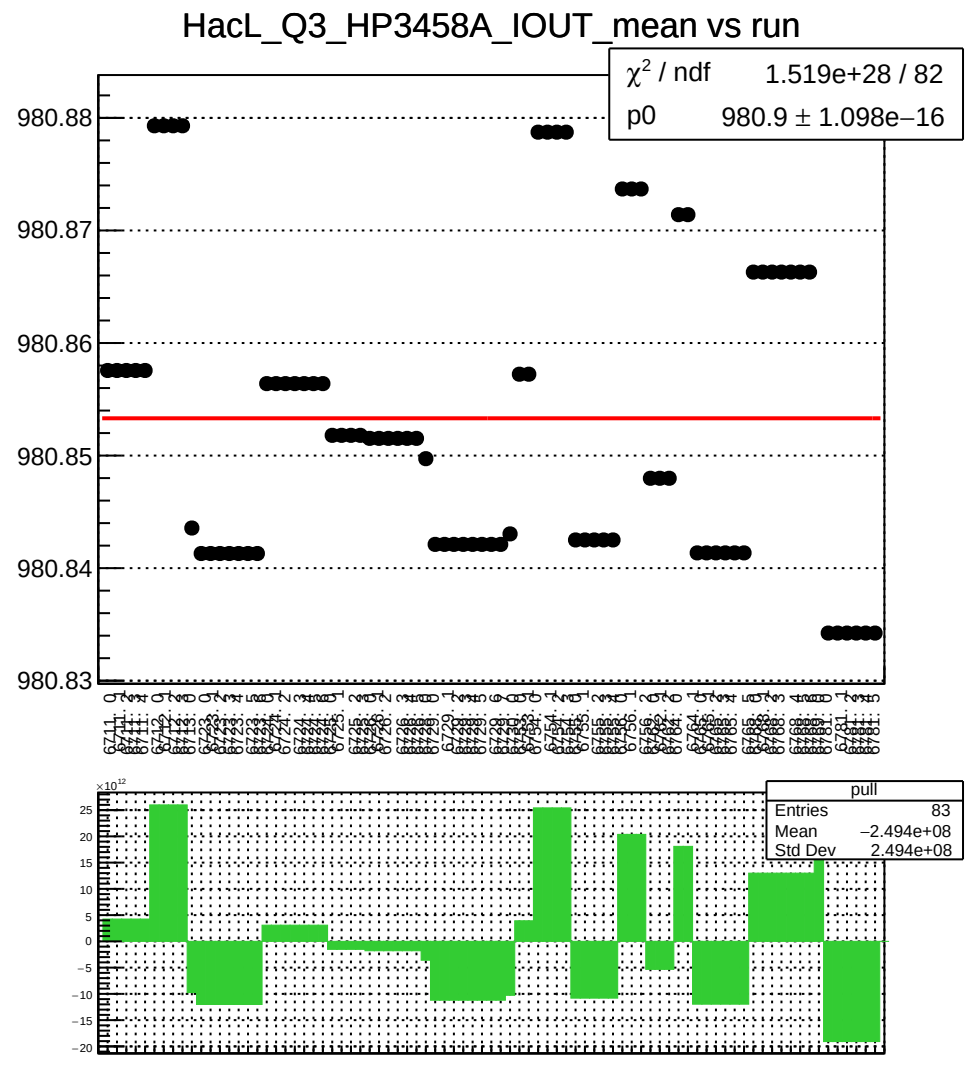

pull1D
Entries 83
Mean 0.01908
Std Dev 6.16e−10

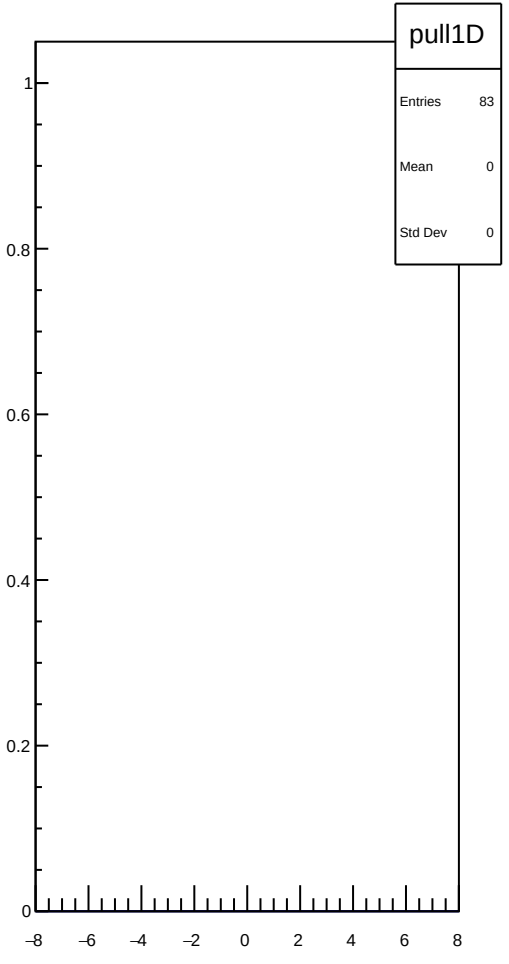

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 8.794e+28 / 82
p0 931.7 ± 1.098e−16
931.82
931.8
931.78
931.76
931.74
931.72
pull
Entries 83
Mean −1.998e+09
Std Dev 1.998e+09
×10¹²
60
40
20
0
−20

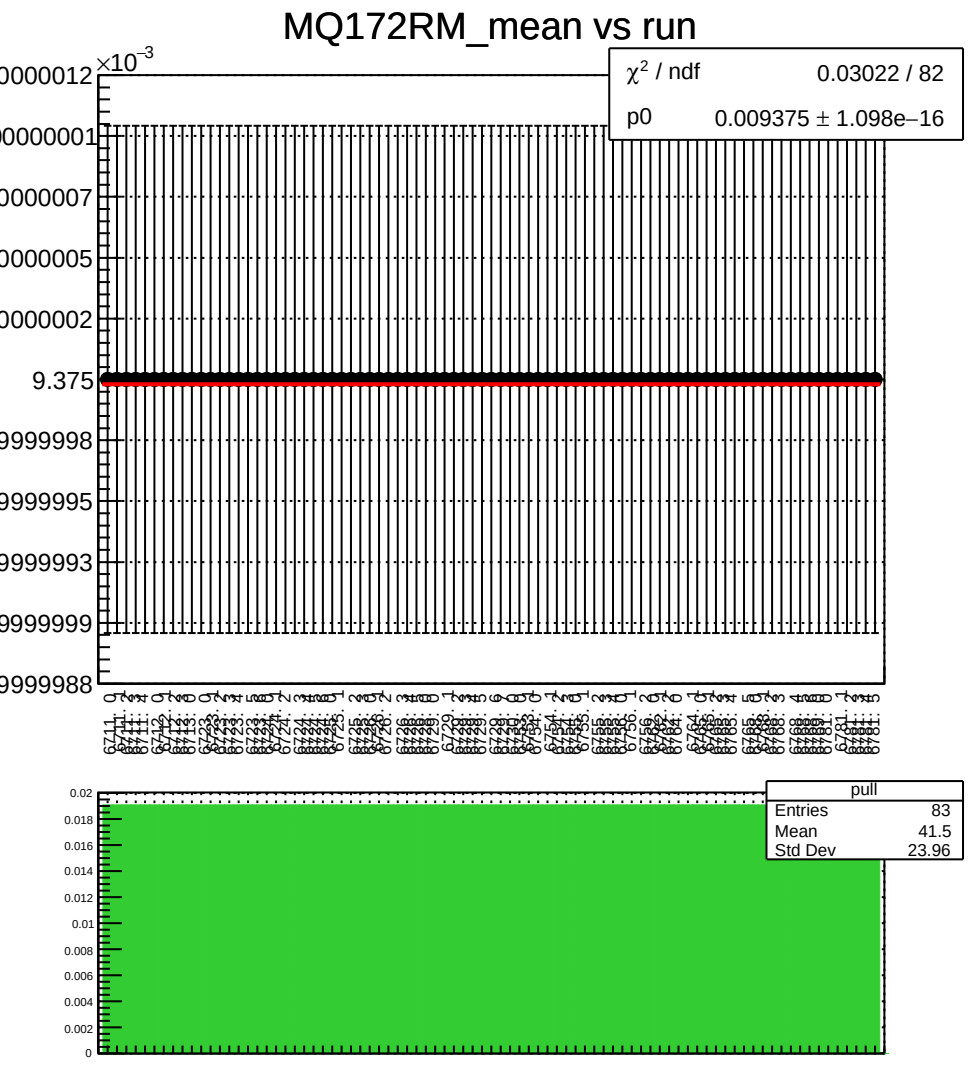

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

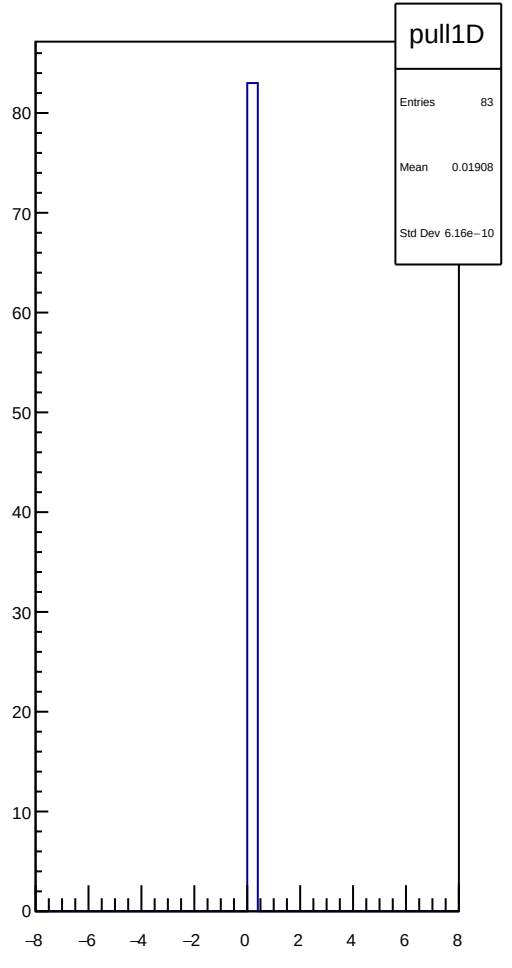

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.264e+28 / 82
p0 741.5 ± 1.098e−16
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
741.505
pull
Entries 83
Mean 3.509e+08
Std Dev 3.509e+08
×10¹²
20
15
10
5
0
−5
−10
−15
−20

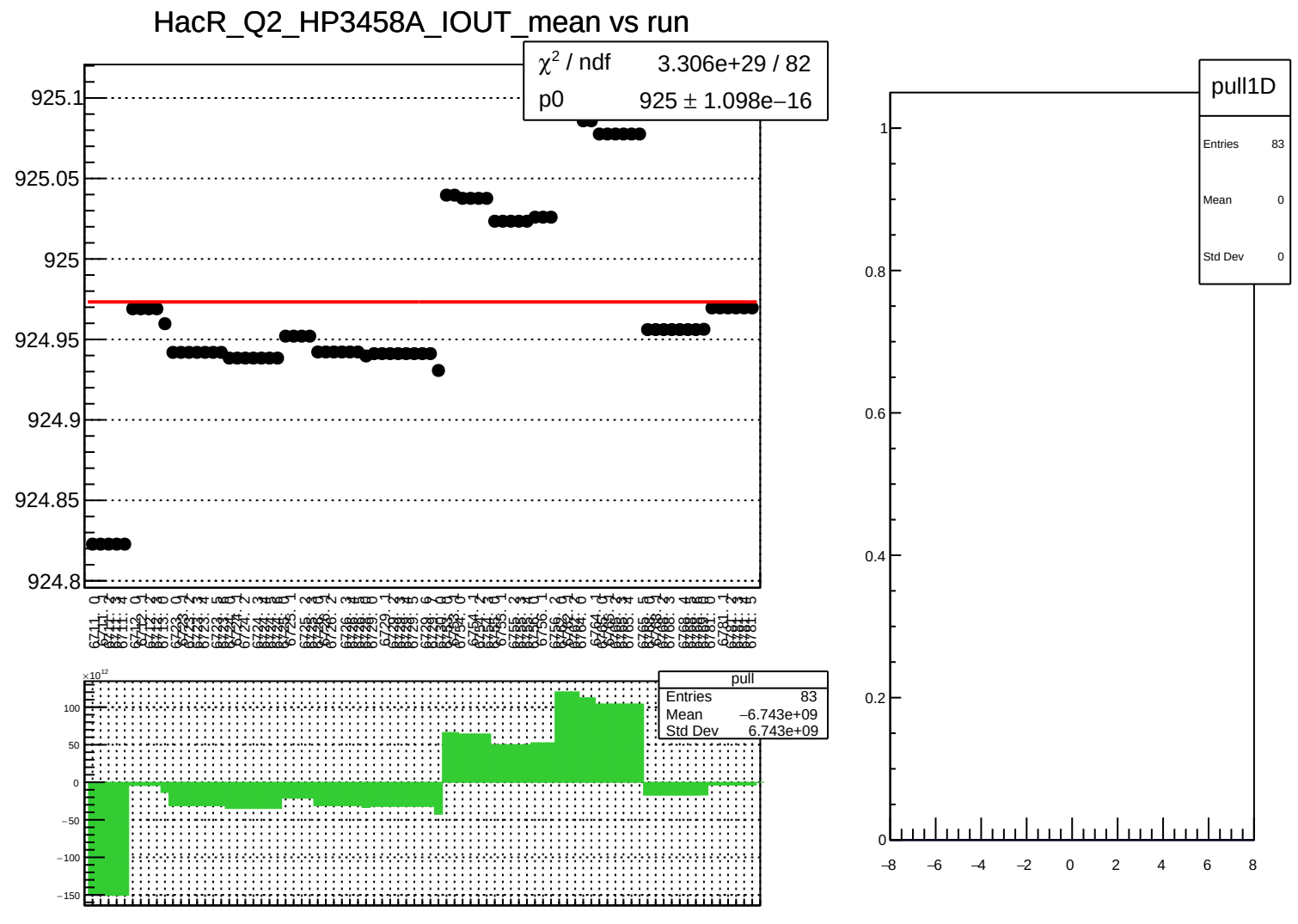

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

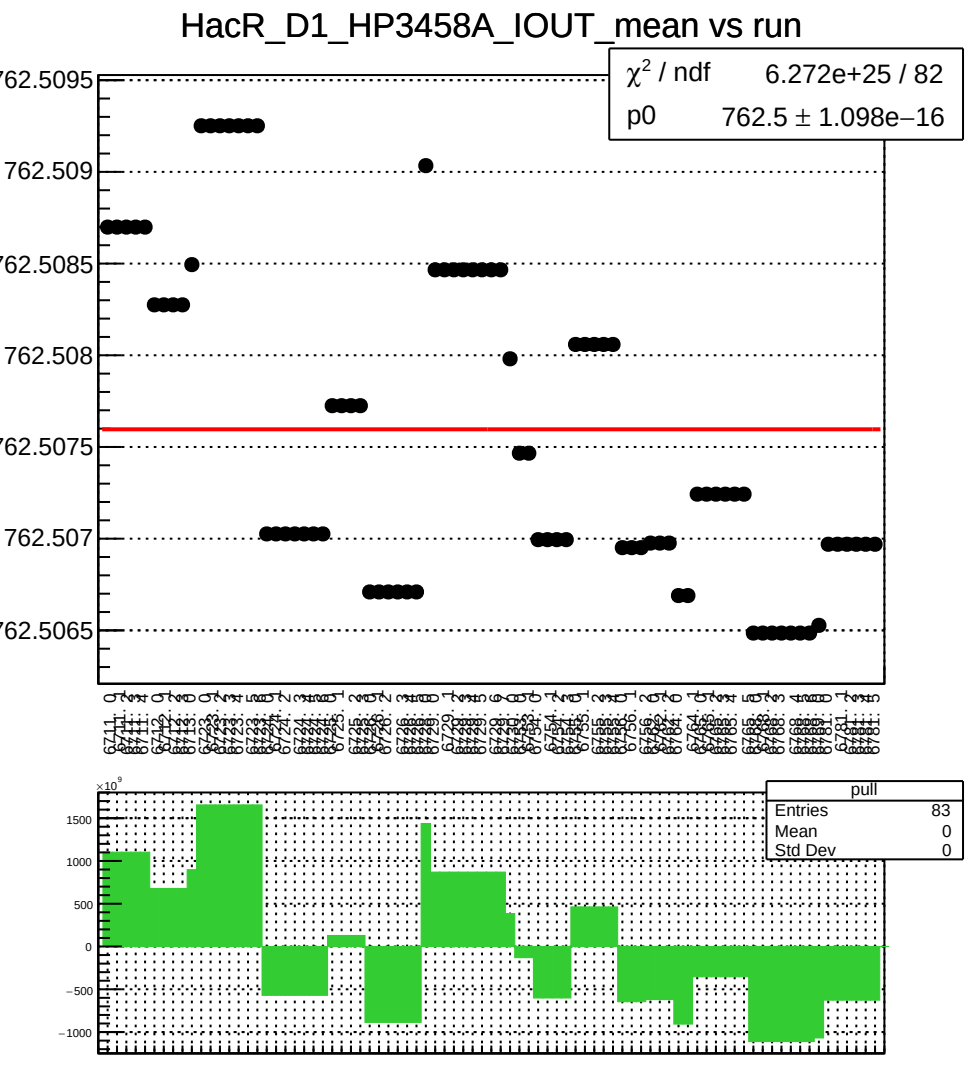

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.519e+28 / 82
p0 980.9 ± 1.098e−16
980.88
980.87
980.86
980.85
980.84
980.83
pull
Entries 83
Mean −2.494e+08
Std Dev 2.494e+08
×10¹²
25
20
15
10
5
0
−5
−10
−15
−20

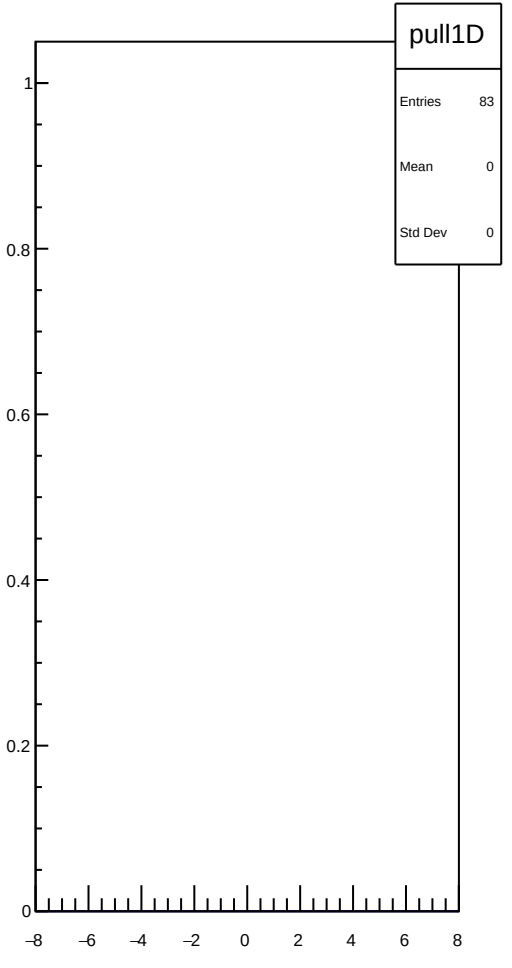

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

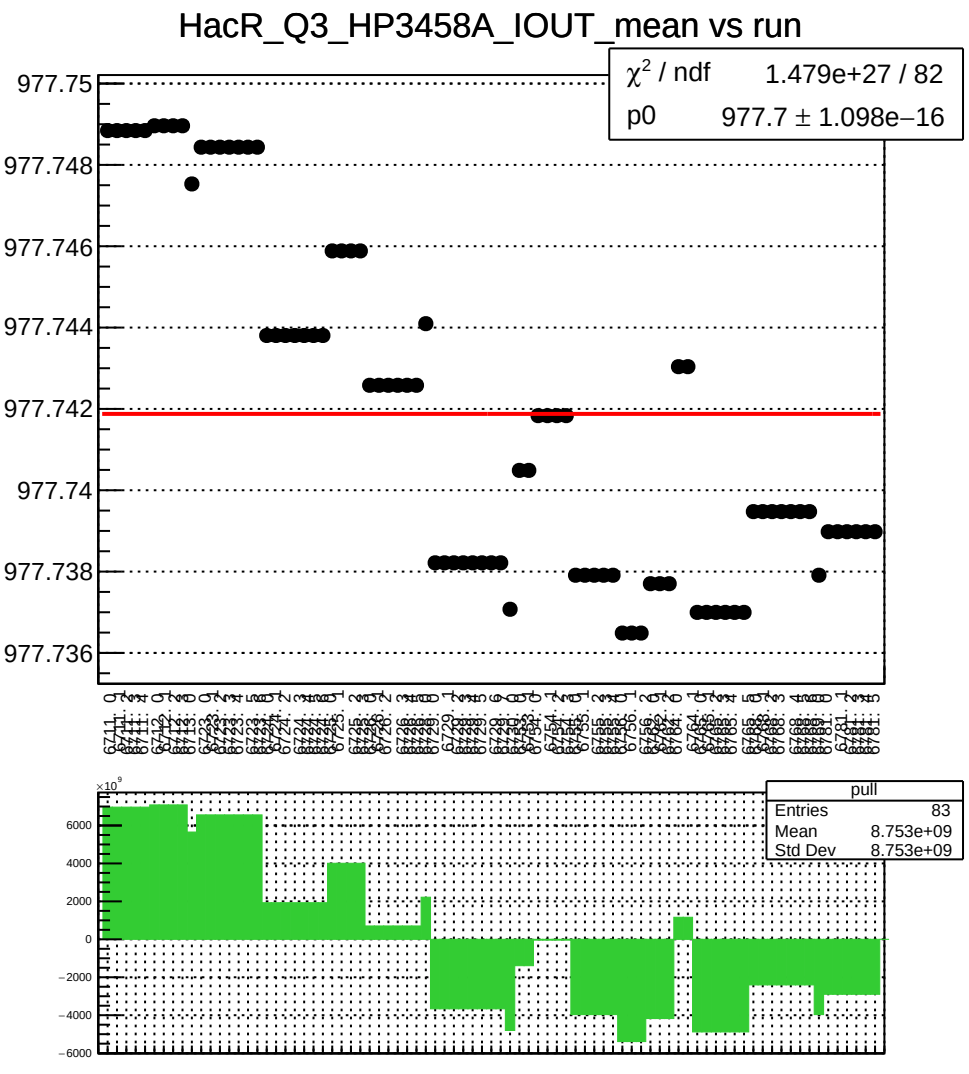

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.03022 / 82
p0 0.009375 ± 1.098e−16
9.375
pull
Entries 83
Mean 41.5
Std Dev 23.96

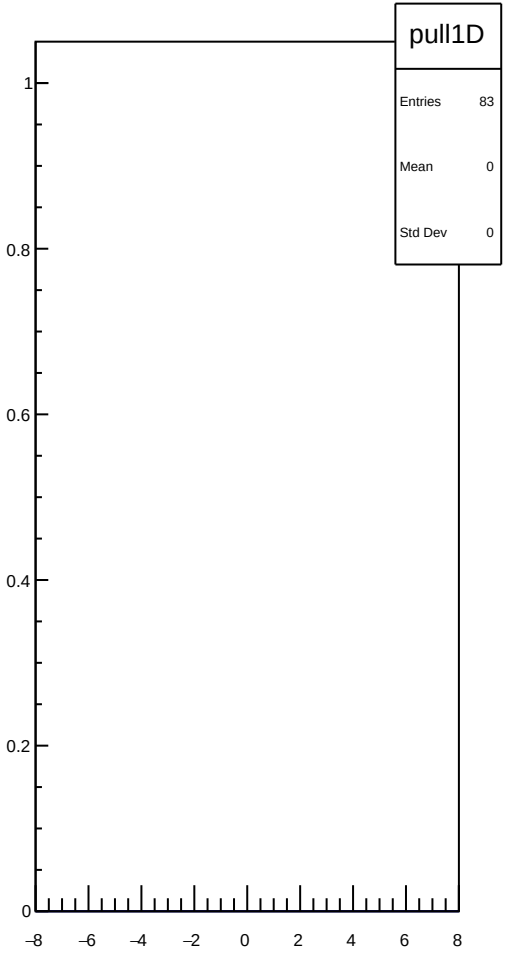

pull1D
Entries 83
Mean 0.01908
Std Dev 6.16e−10

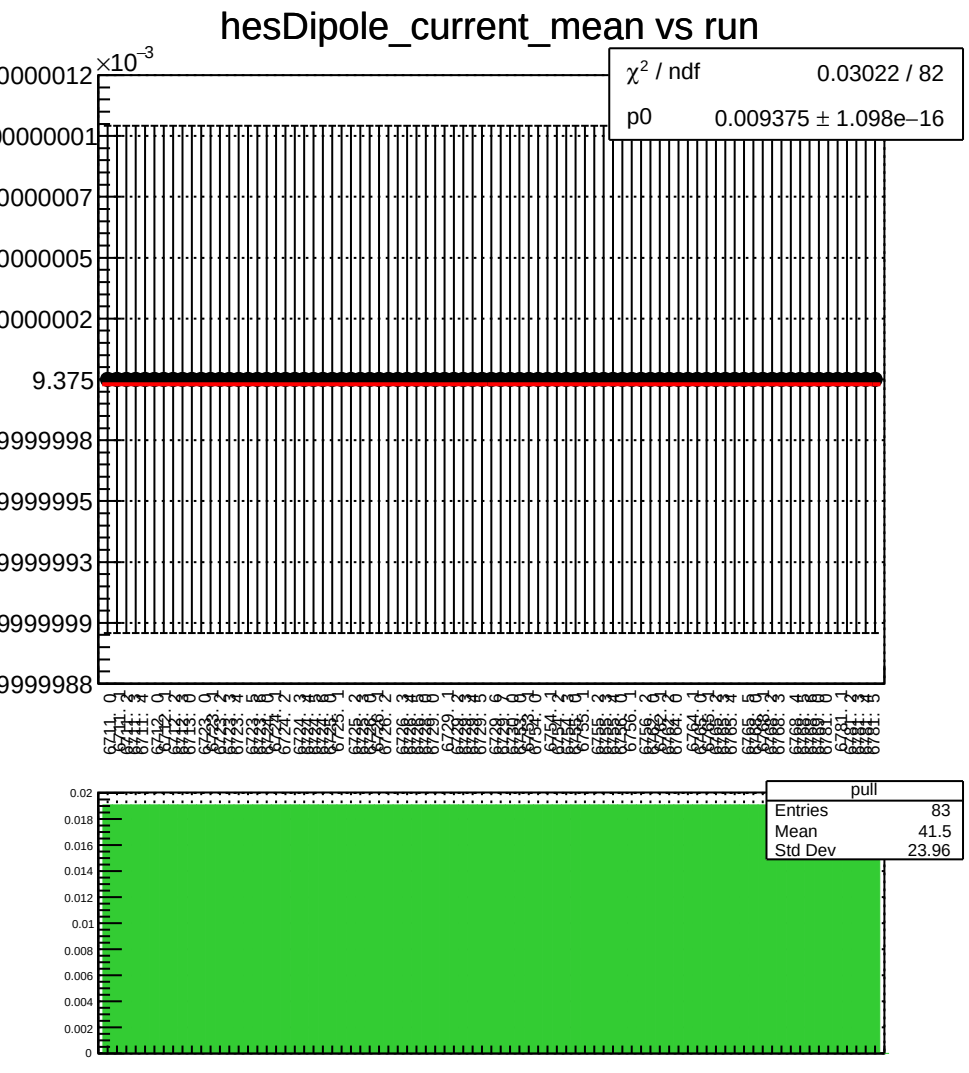

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.306e+29 / 82
p0 925 ± 1.098e−16
925.1
925.05
925
924.95
924.9
924.85
924.8
pull
Entries 83
Mean −6.743e+09
Std Dev 6.743e+09
×10¹²
100
50
0
−50
−100
−150
pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

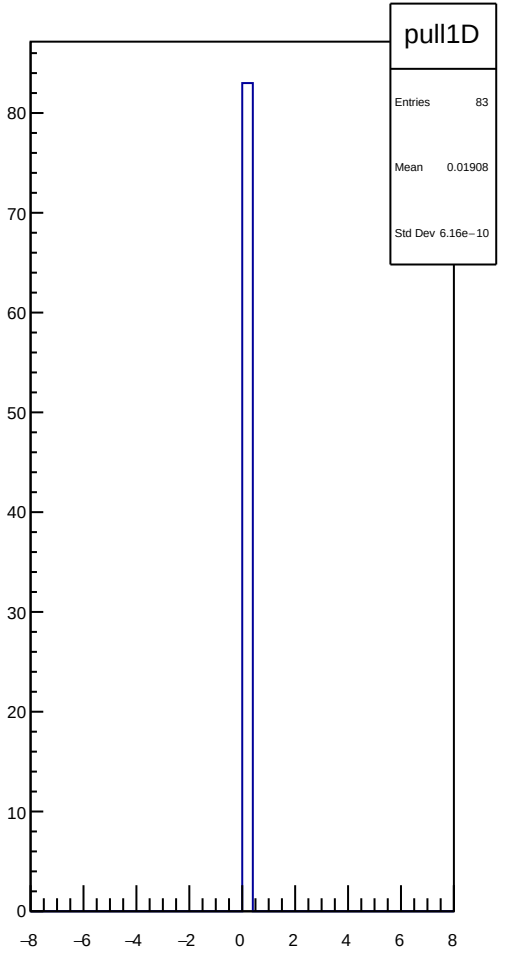

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 6.272e+25 / 82
p0 762.5 ± 1.098e−16
762.5095
762.509
762.5085
762.508
762.5075
762.507
762.5065
×10⁹
1500
1000
500
0
−500
−1000
pull
Entries 83
Mean 0
Std Dev 0

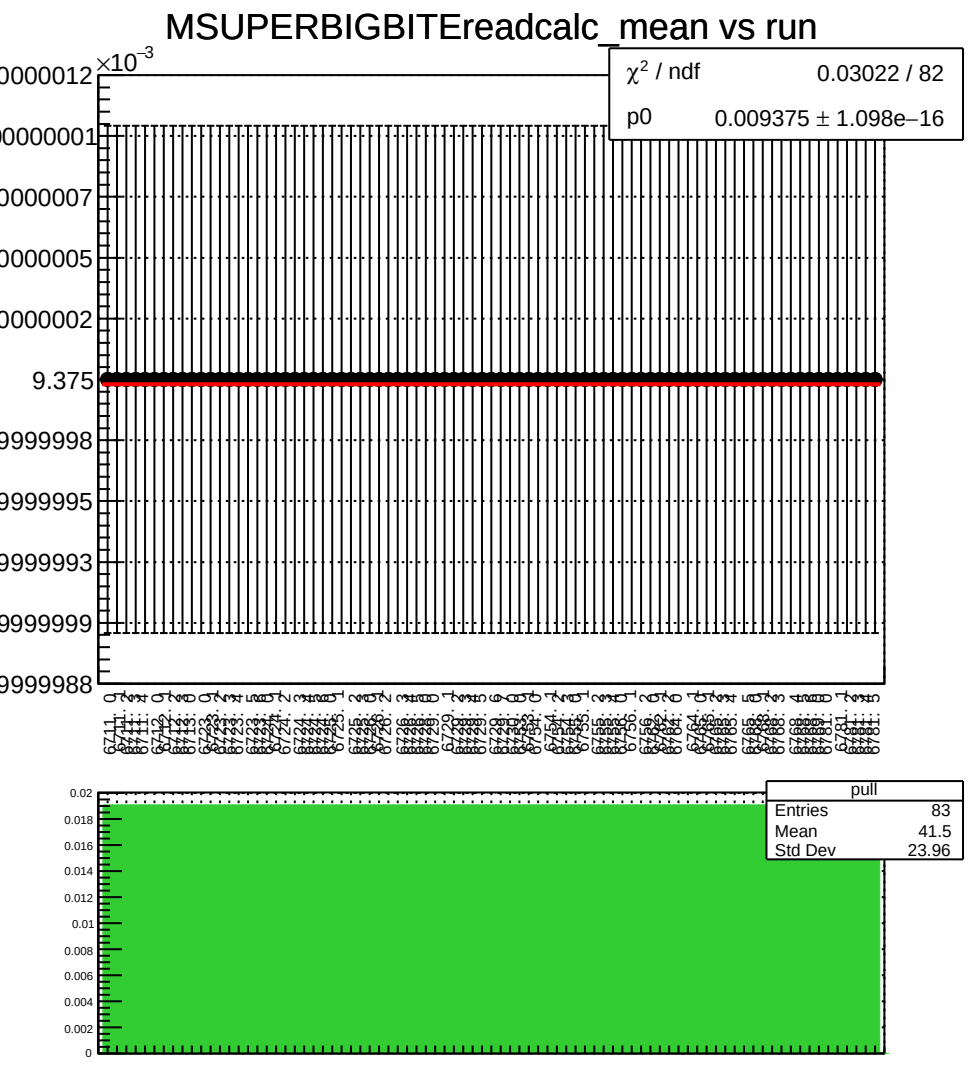

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

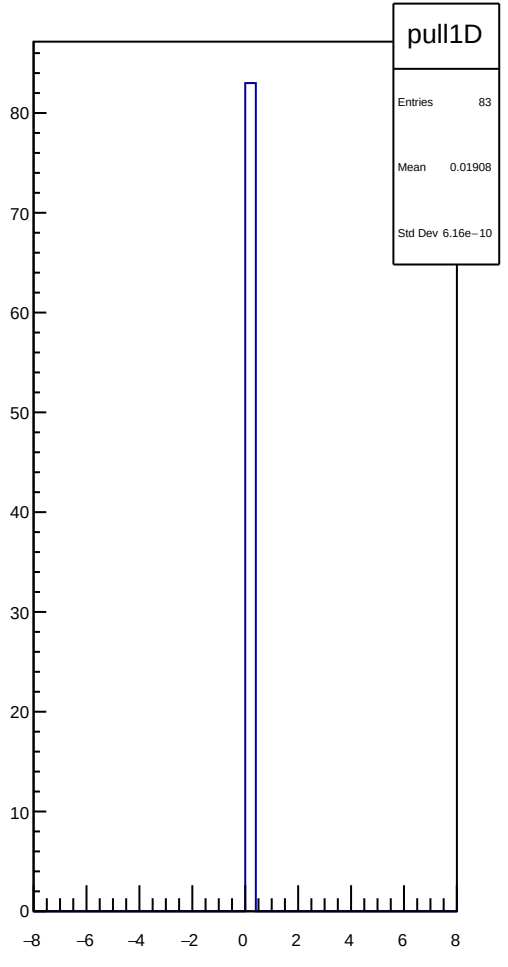

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.479e+27 / 82
p0 977.7 ± 1.098e−16
977.75
977.748
977.746
977.744
977.742
977.74
977.738
977.736
×10⁹
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean 8.753e+09
Std Dev 8.753e+09

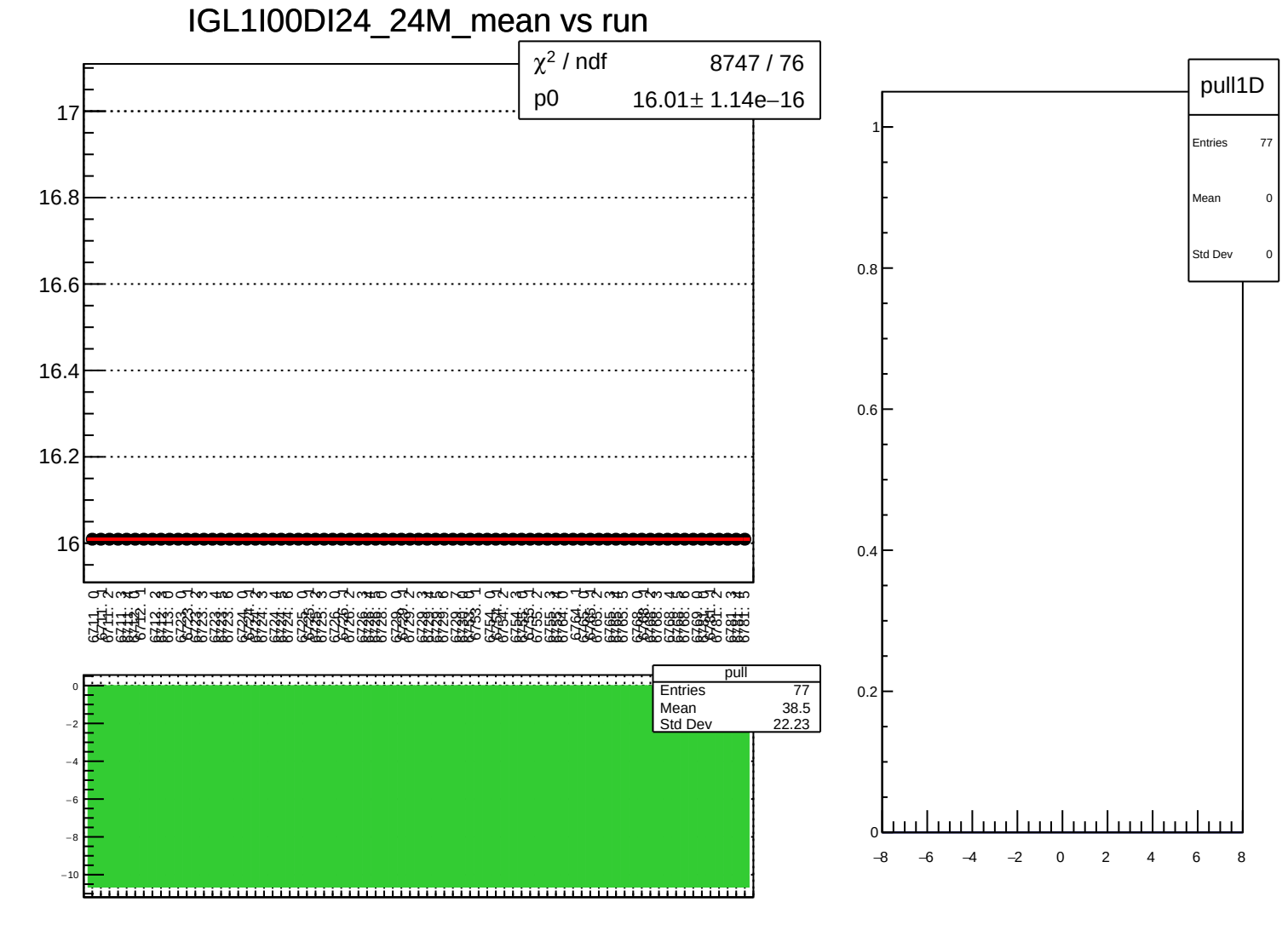

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

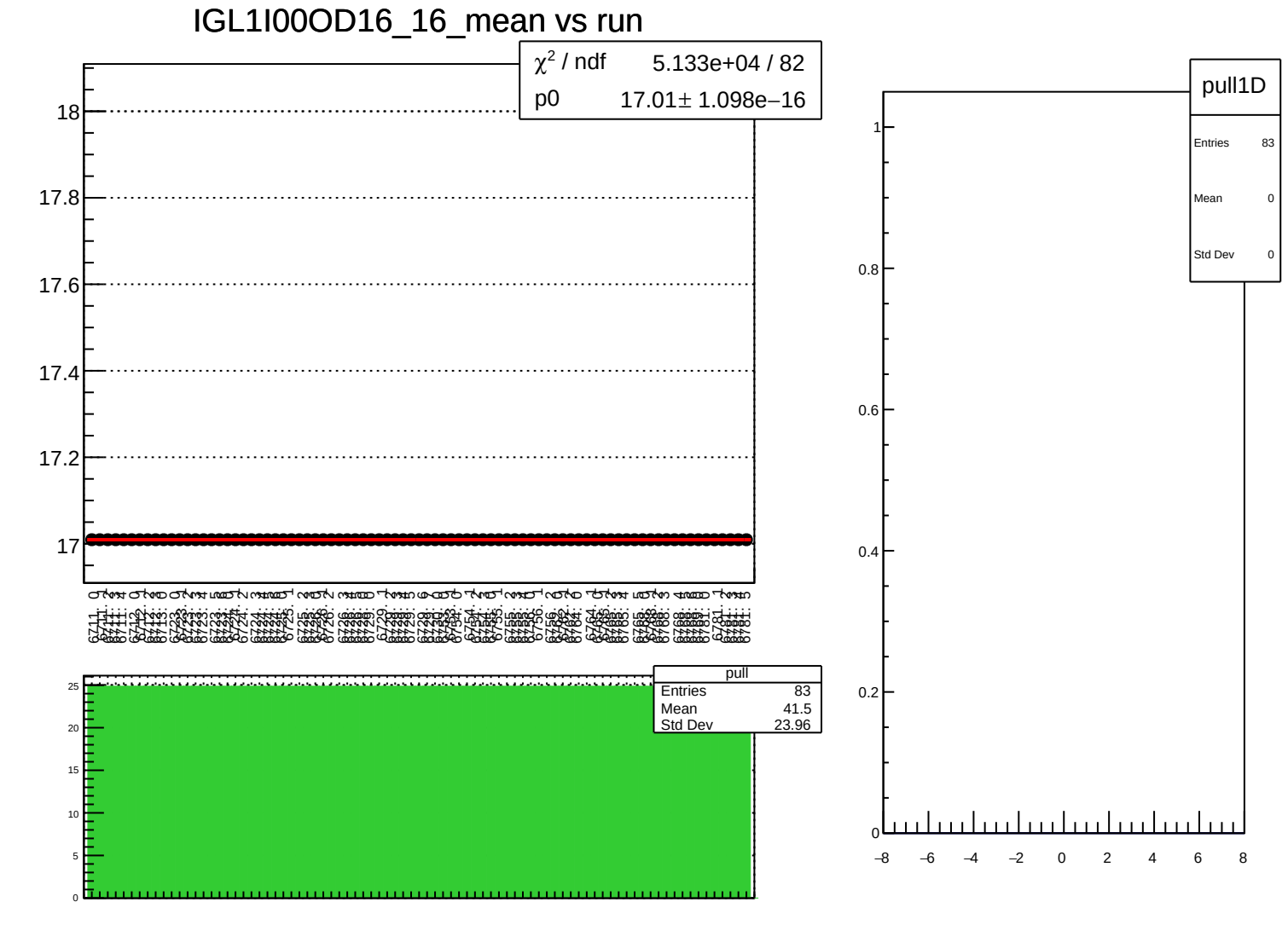

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.03022 / 82
p0 0.009375 ± 1.098e−16
9.375
pull
Entries 83
Mean 41.5
Std Dev 23.96

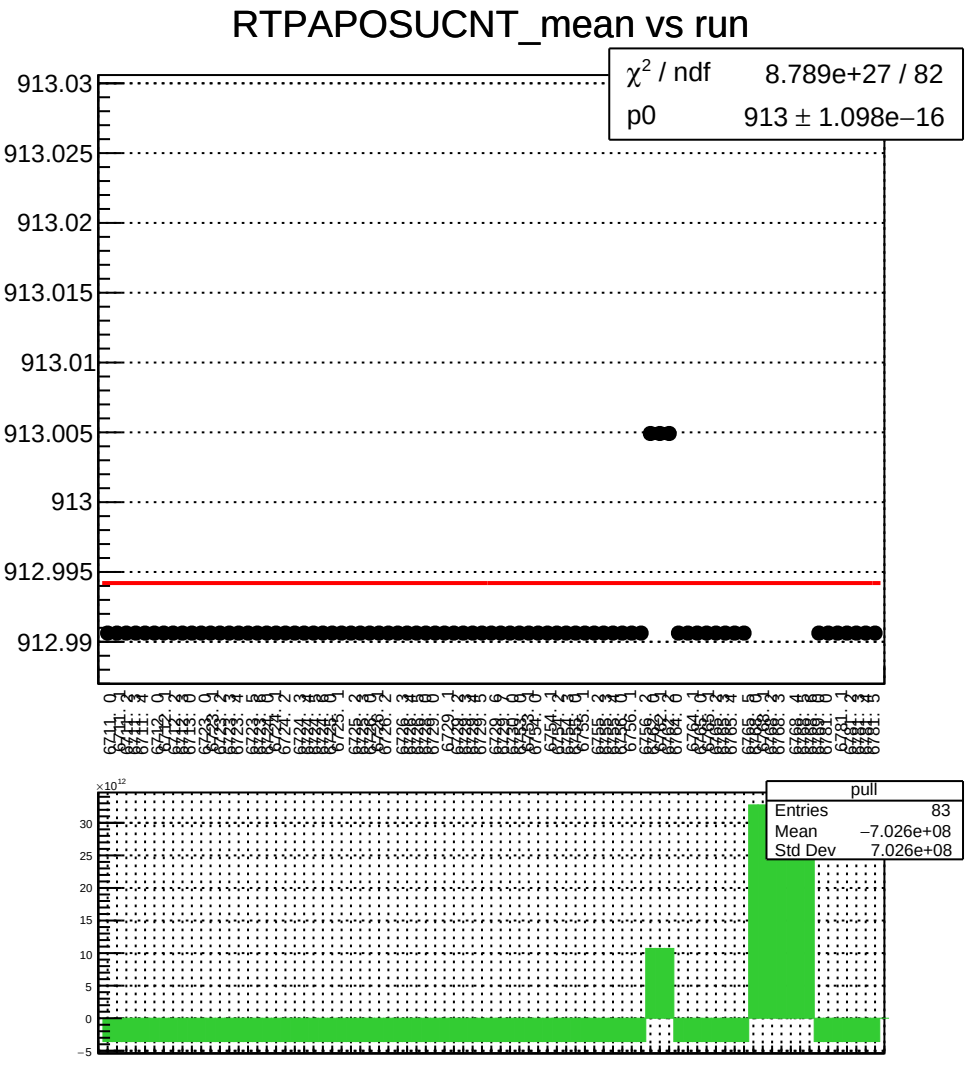

pull1D
Entries 83
Mean 0.01908
Std Dev 6.16e−10

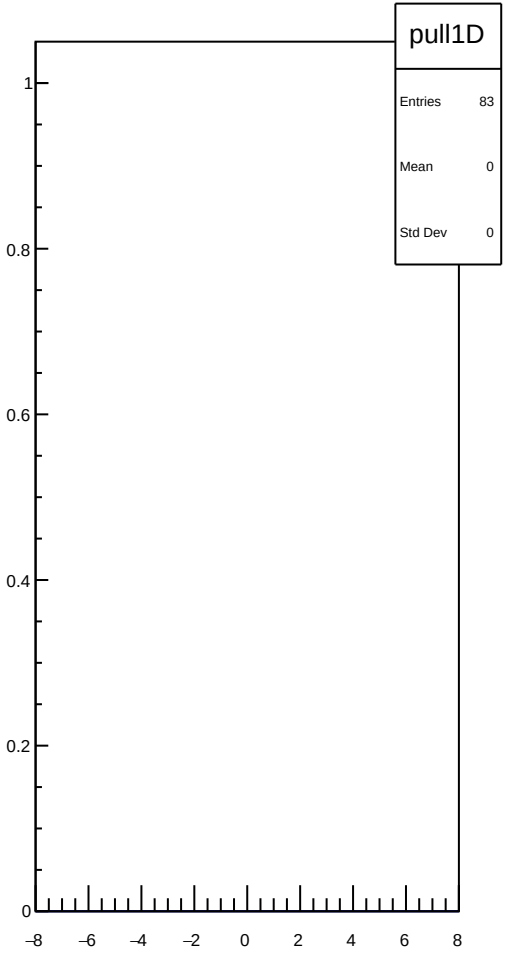

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.03022 / 82
p0 0.009375 ± 1.098e−16
×10⁻³
9.375
pull
Entries 83
Mean 41.5
Std Dev 23.96

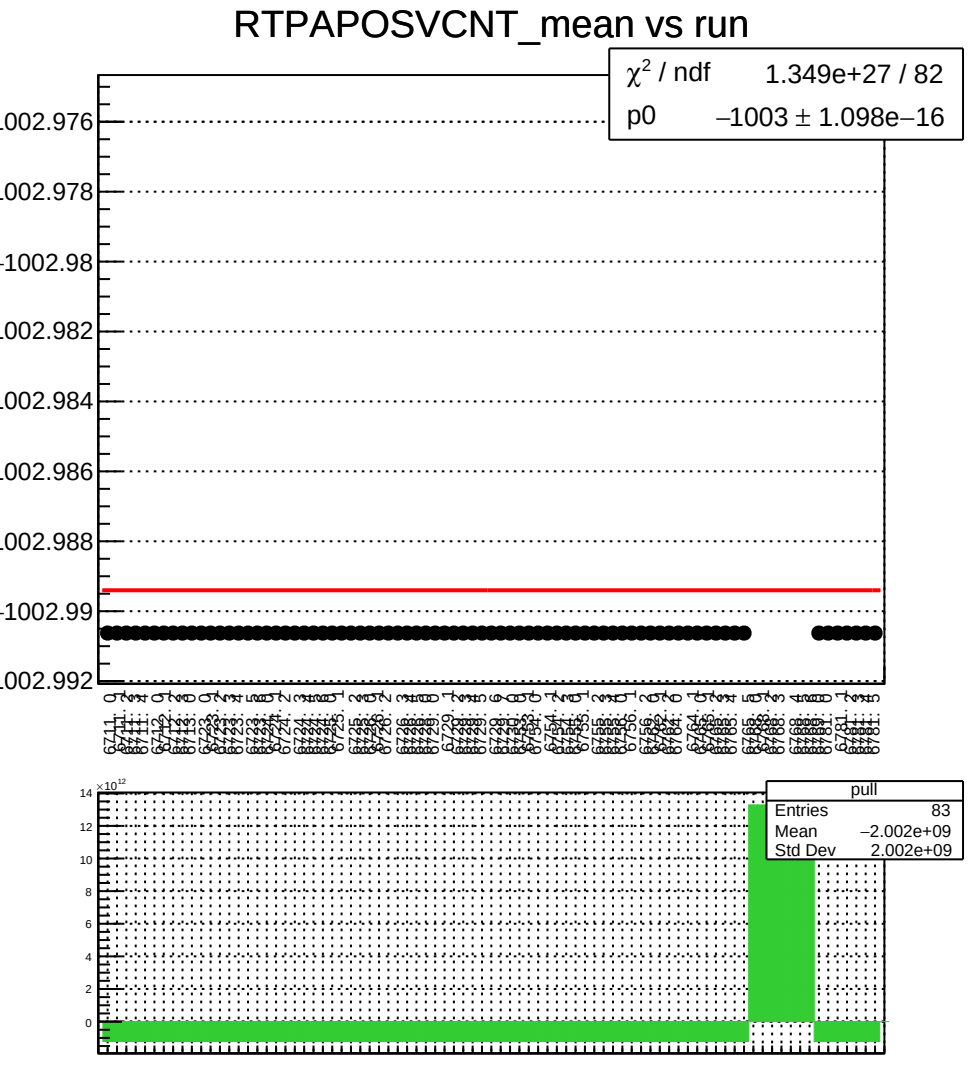

pull1D
Entries 83
Mean 0.01908
Std Dev 6.16e−10

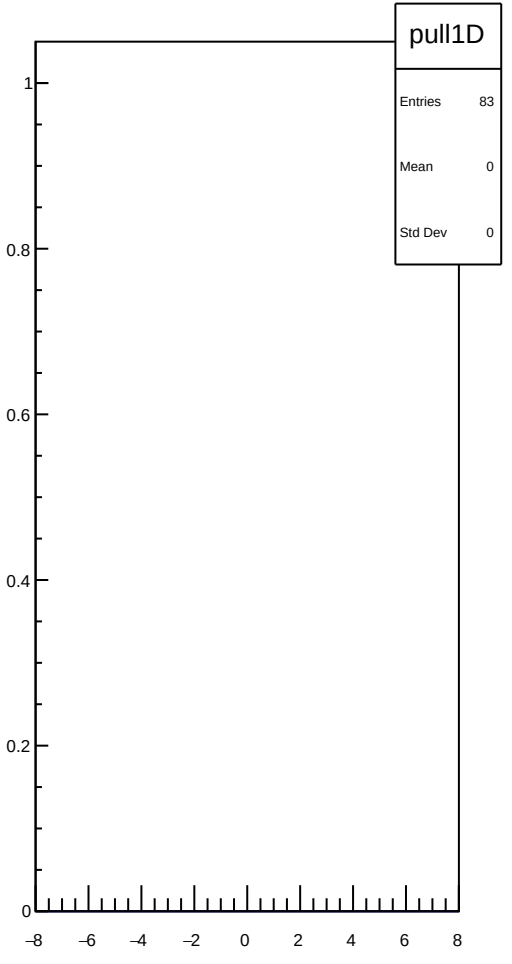

IGL1I00DI24_24M_mean vs run
χ² / ndf 8747 / 76
p0 16.01± 1.14e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 77
Mean 38.5
Std Dev 22.23
0
−2
−4
−6
−8
−10
pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00OD16_16_mean vs run
χ² / ndf 5.133e+04 / 82
p0 17.01± 1.098e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 83
Mean 41.5
Std Dev 23.96
25
20
15
10
5
0
pull1D
Entries 83
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 8.789e+27 / 82
p0 913 ± 1.098e−16
913.03
913.025
913.02
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 83
Mean −7.026e+08
Std Dev 7.026e+08
×10¹²
30
25
20
15
10
5
0
−5


pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 1.349e+27 / 82
p0 −1003 ± 1.098e−16
−1002.976
−1002.978
−1002.98
−1002.982
−1002.984
−1002.986
−1002.988
−1002.99
−1002.992
pull
Entries 83
Mean −2.002e+09
Std Dev 2.002e+09
×10¹²
14
12
10
8
6
4
2
0


pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8