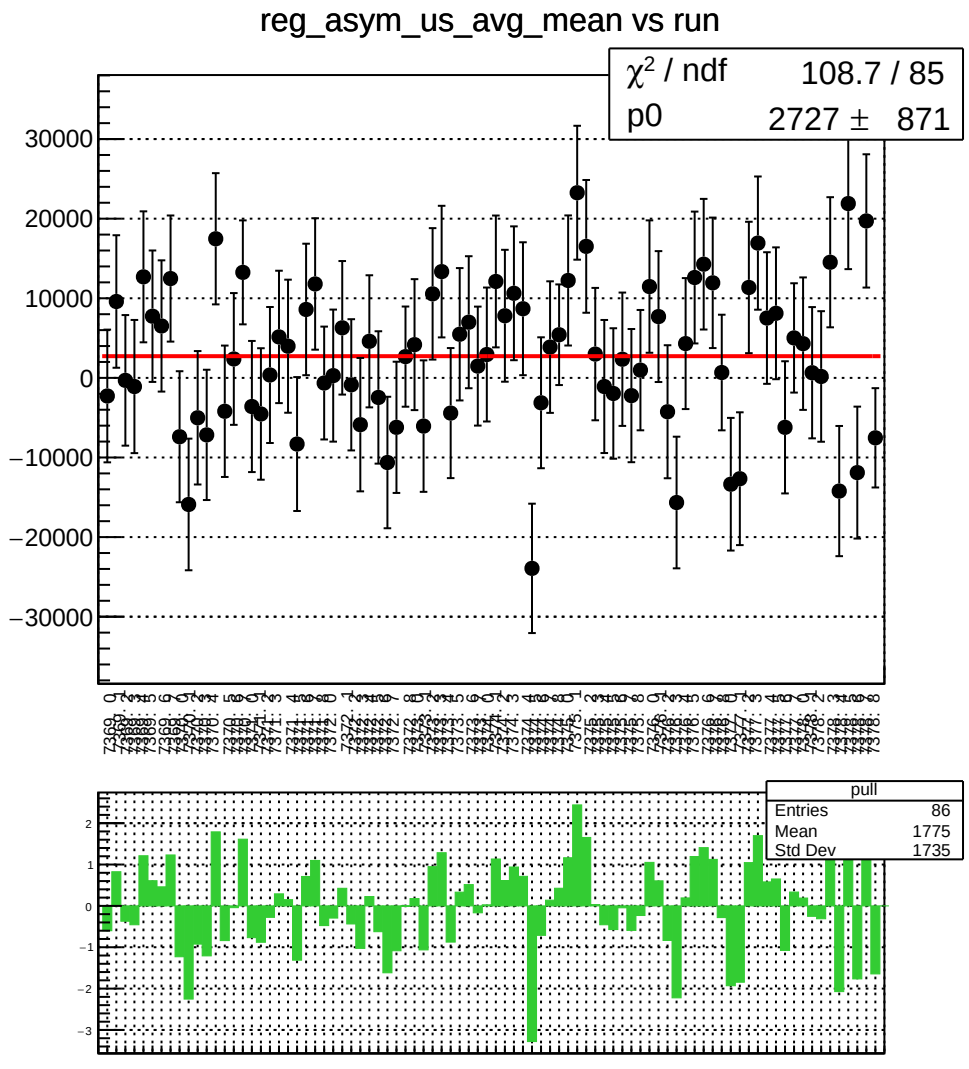
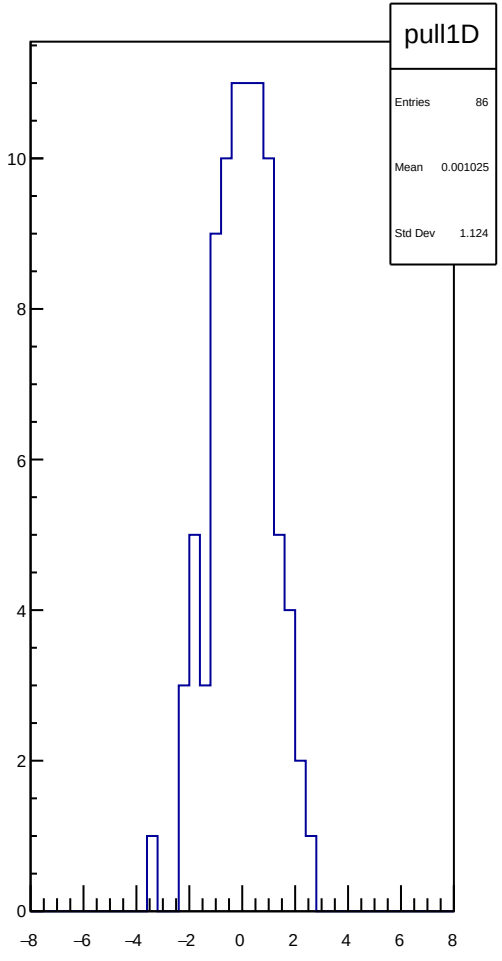
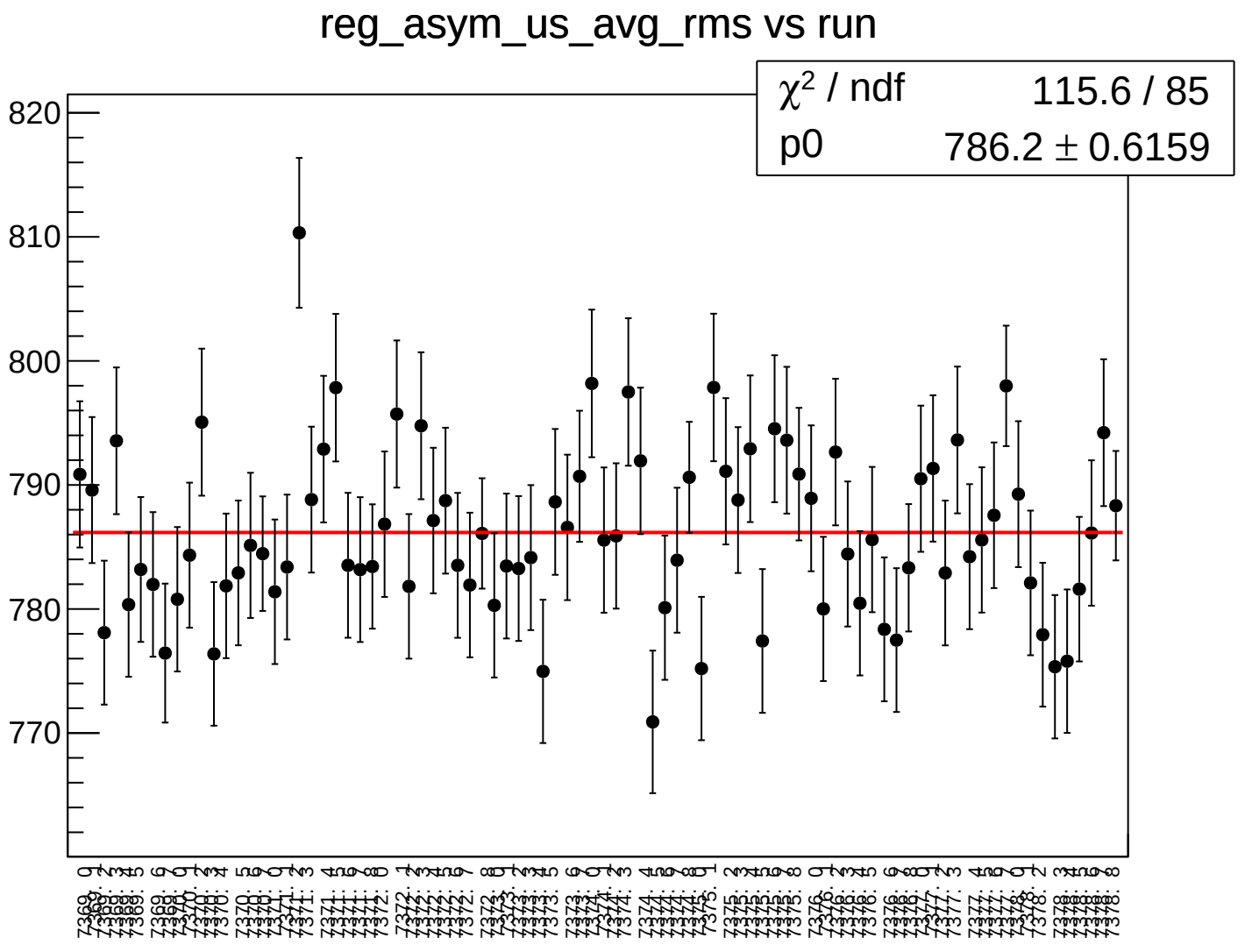
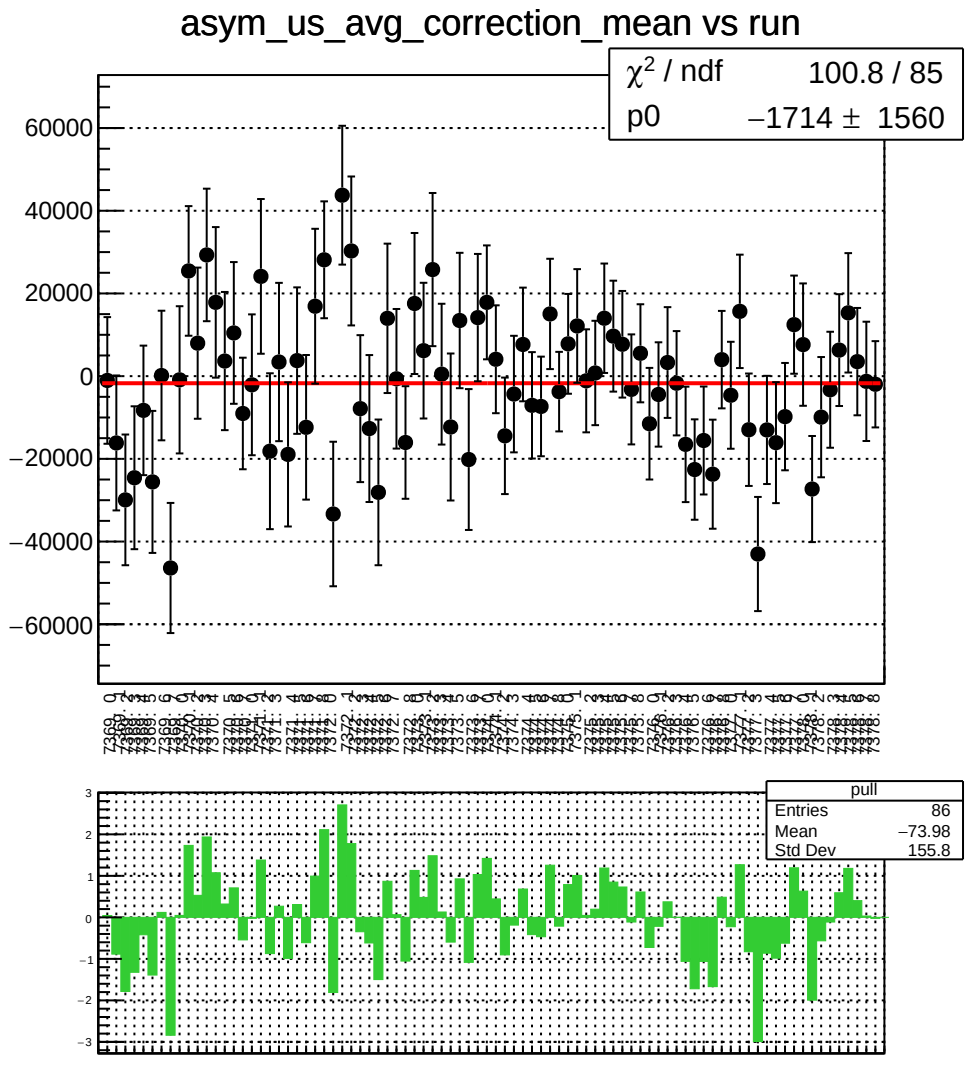
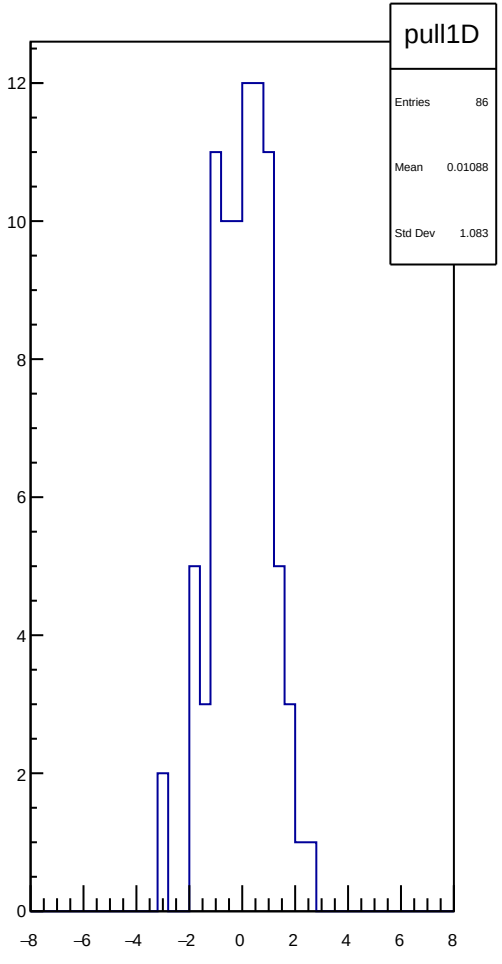
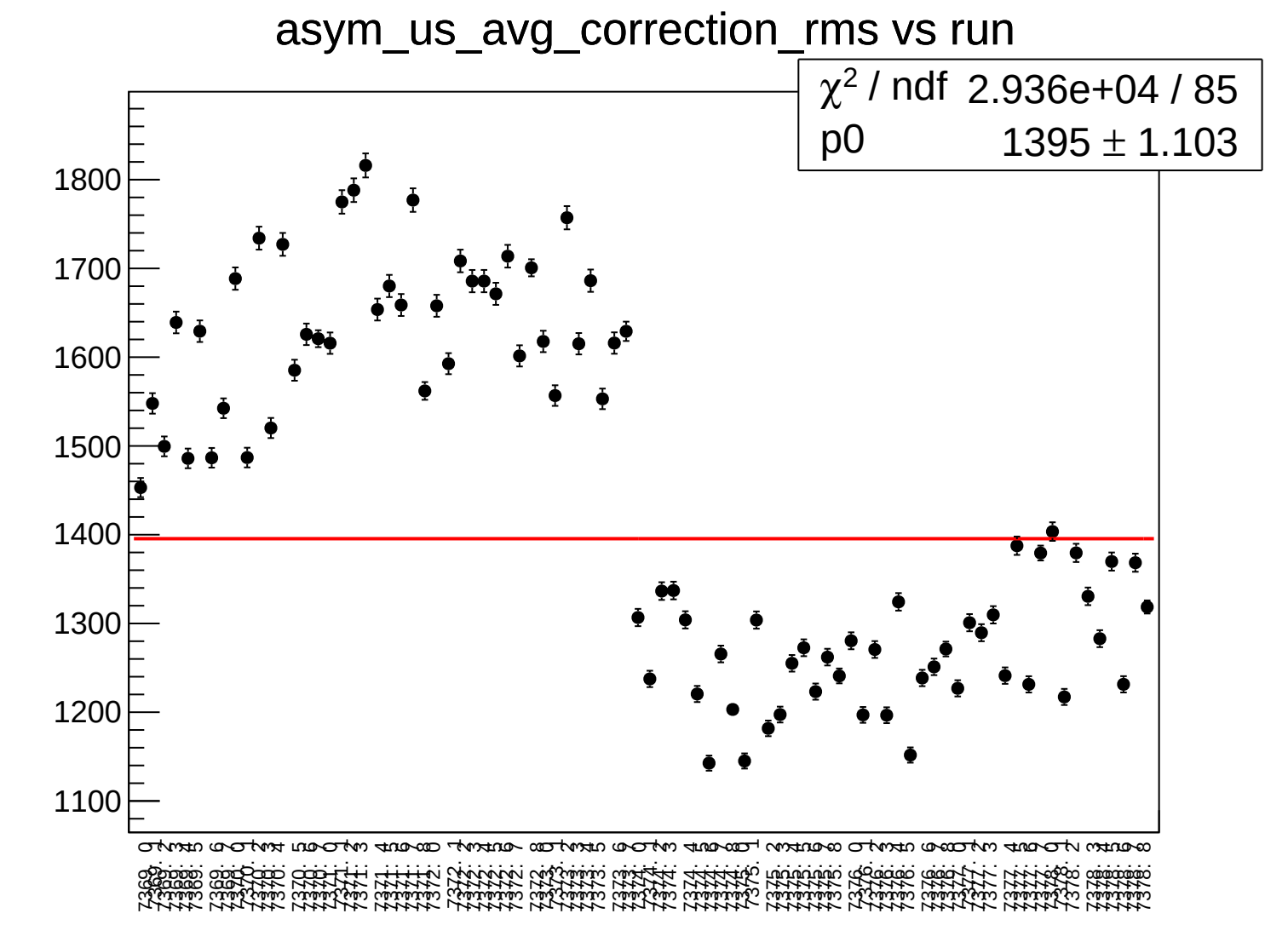

reg_asym_us_avg_mean vs run
χ² / ndf 108.7 / 85
p0 2727 ± 871
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 1775
Std Dev 1735
2
1
0
−1
−2
−3

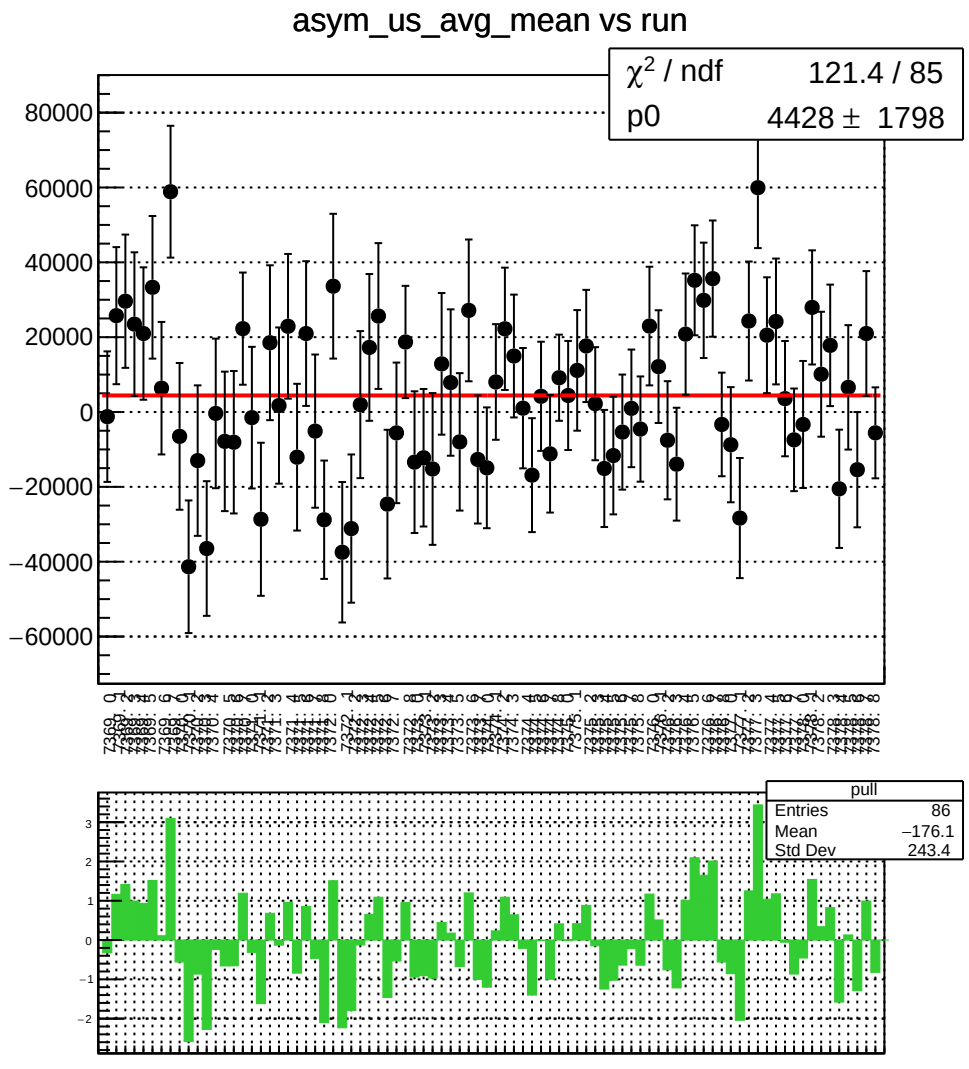

pull1D
Entries 86
Mean 0.001025
Std Dev 1.124
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

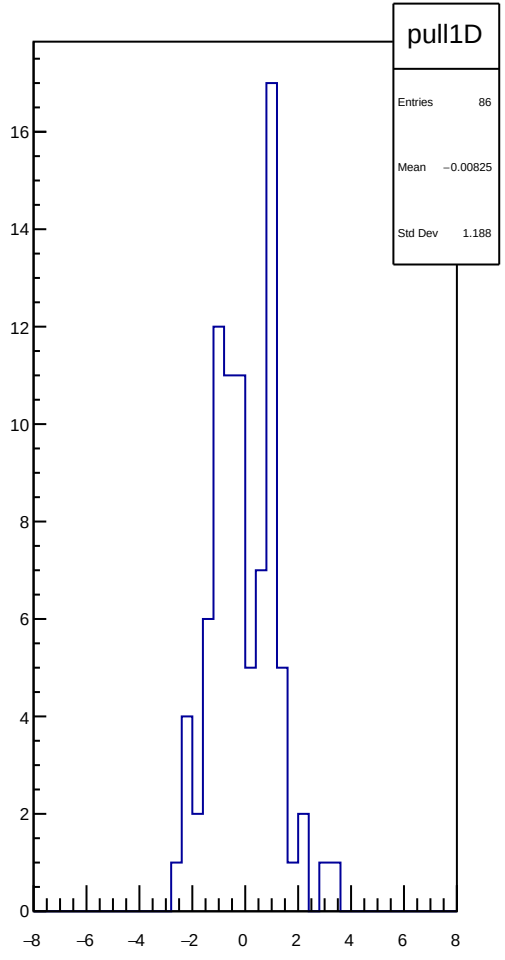

reg_asym_us_avg_rms vs run
χ^2 / ndf 115.6 / 85
p0 786.2 ± 0.6159
820
810
800
790
780
770

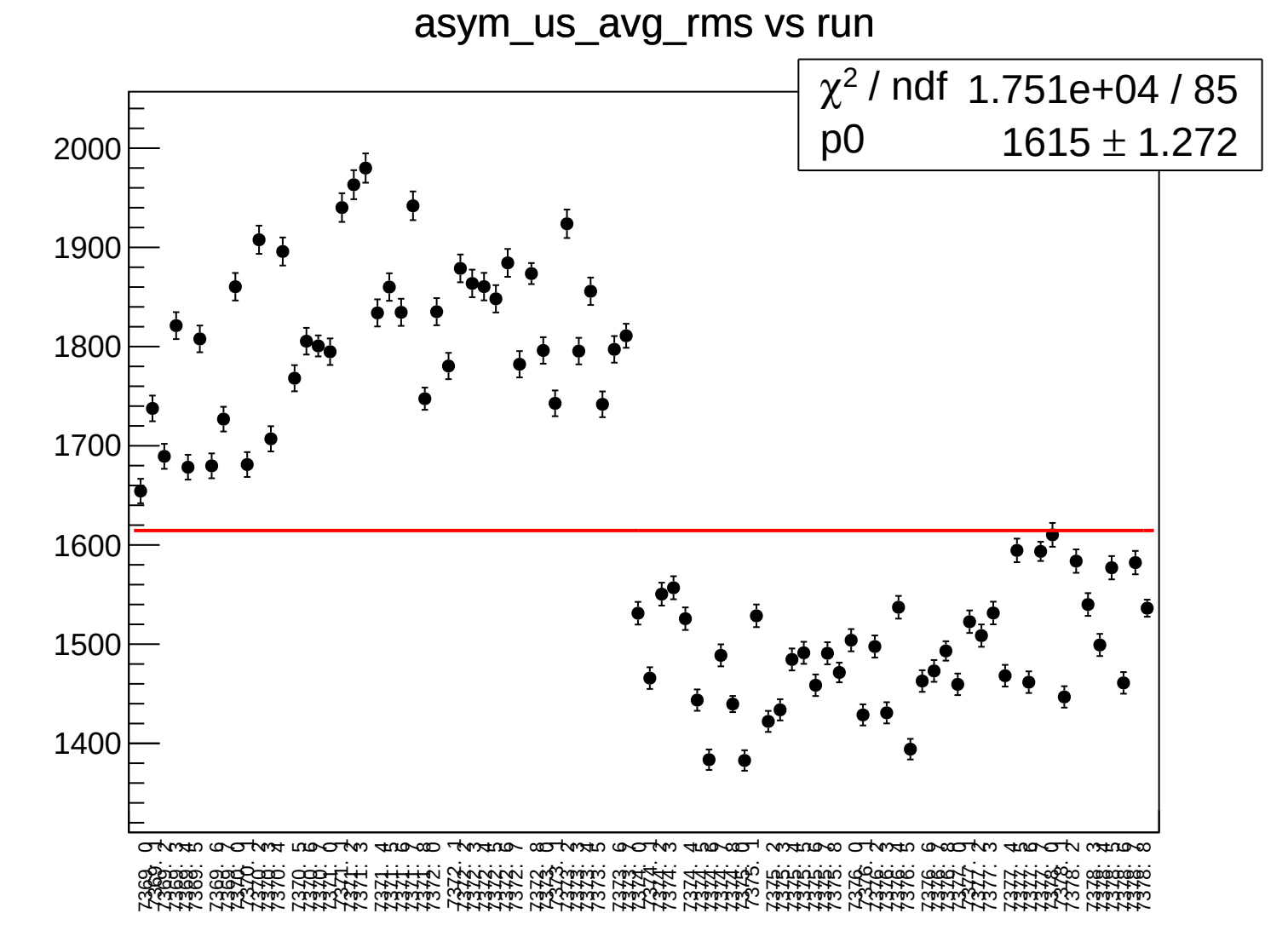

asym_us_avg_correction_mean vs run
χ² / ndf 100.8 / 85
p0 −1714 ± 1560
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −73.98
Std Dev 155.8
3
2
1
0
−1
−2
−3

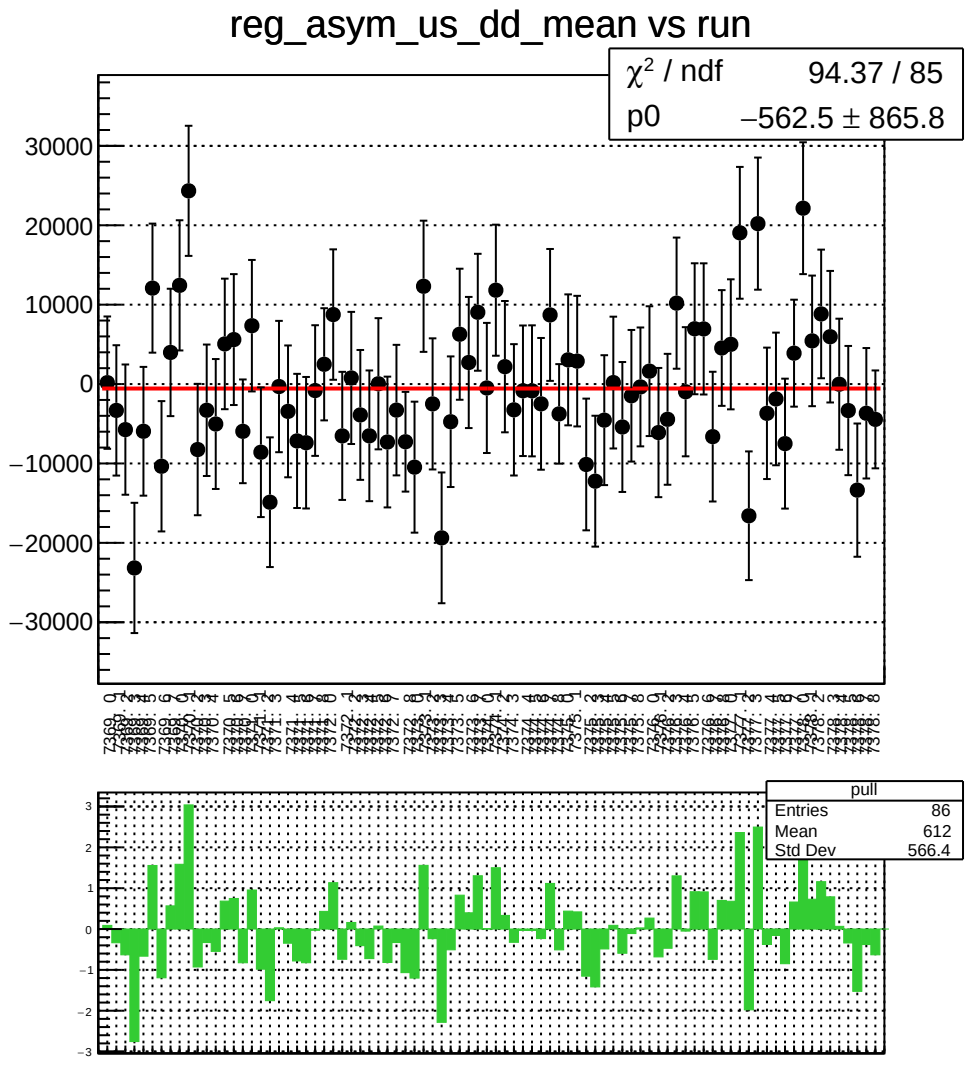

pull1D
Entries 86
Mean 0.01088
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

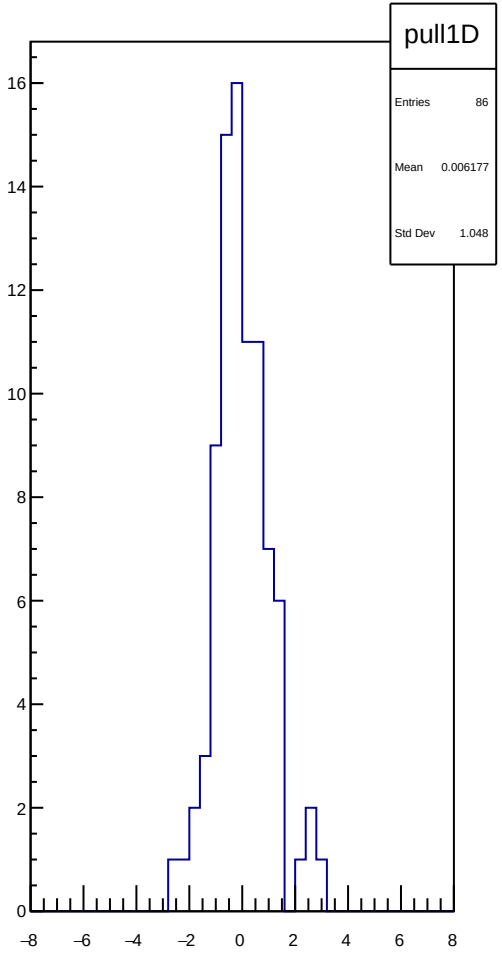

asym_us_avg_correction_rms vs run
χ² / ndf 2.936e+04 / 85
p0 1395 ± 1.103
1800
1700
1600
1500
1400
1300
1200
1100

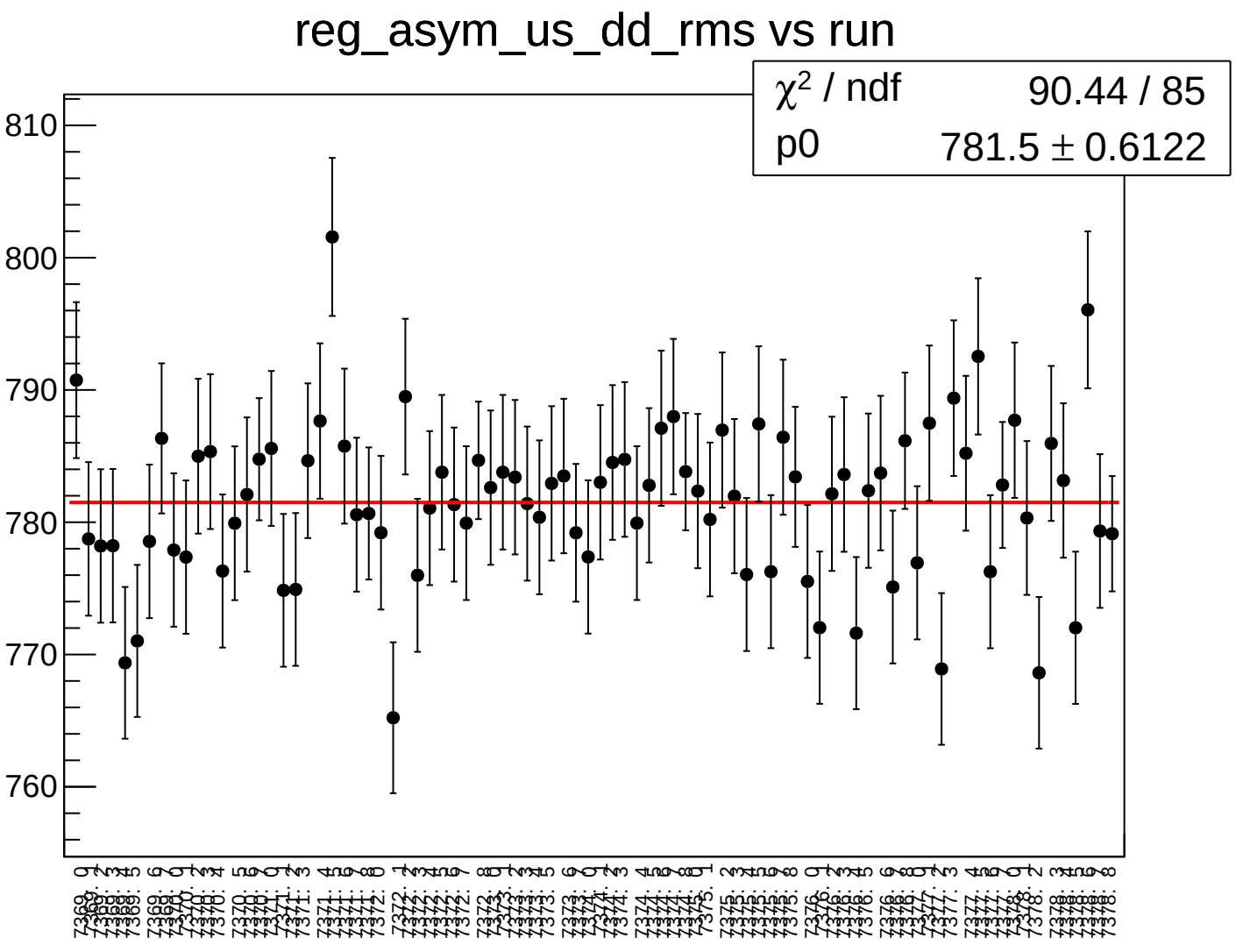

asym_us_avg_mean vs run
χ² / ndf 121.4 / 85
p0 4428 ± 1798
pull
Entries 86
Mean −176.1
Std Dev 243.4

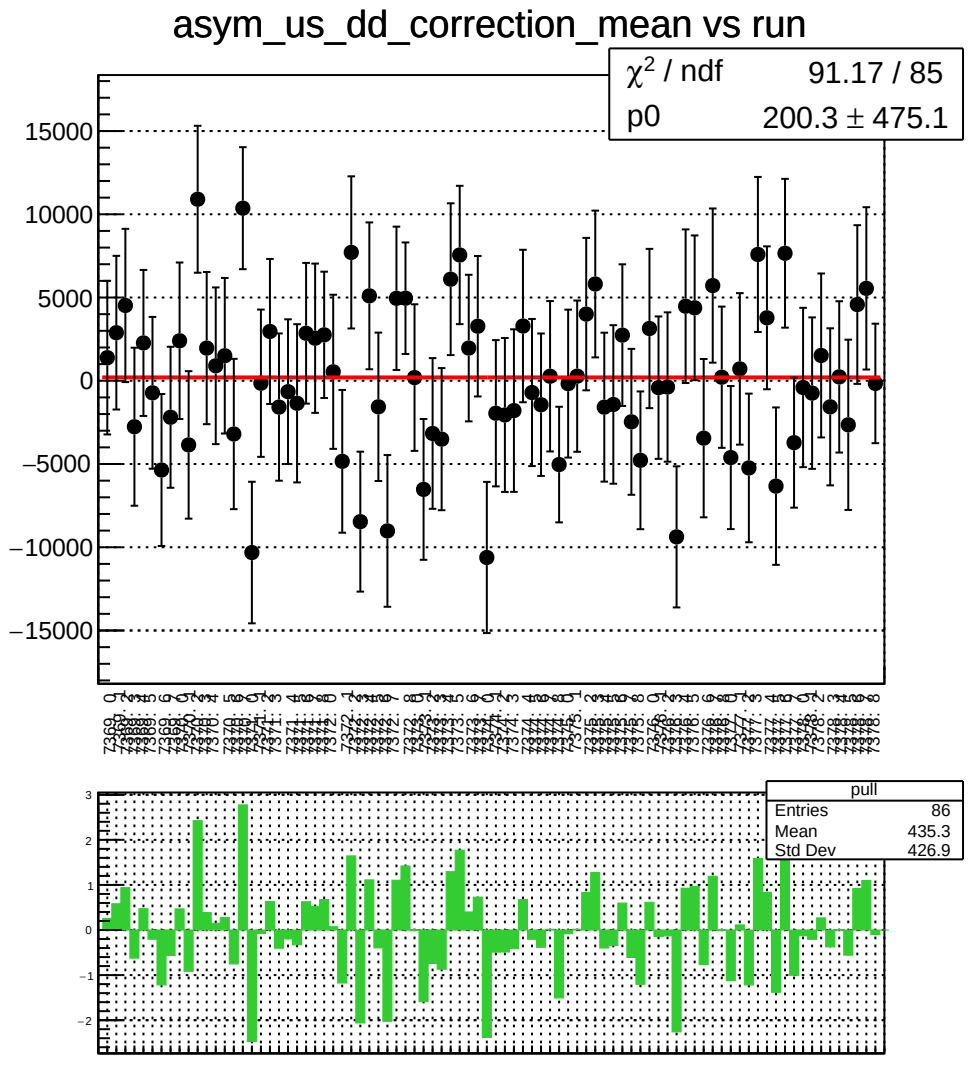

pull1D
Entries 86
Mean −0.00825
Std Dev 1.188

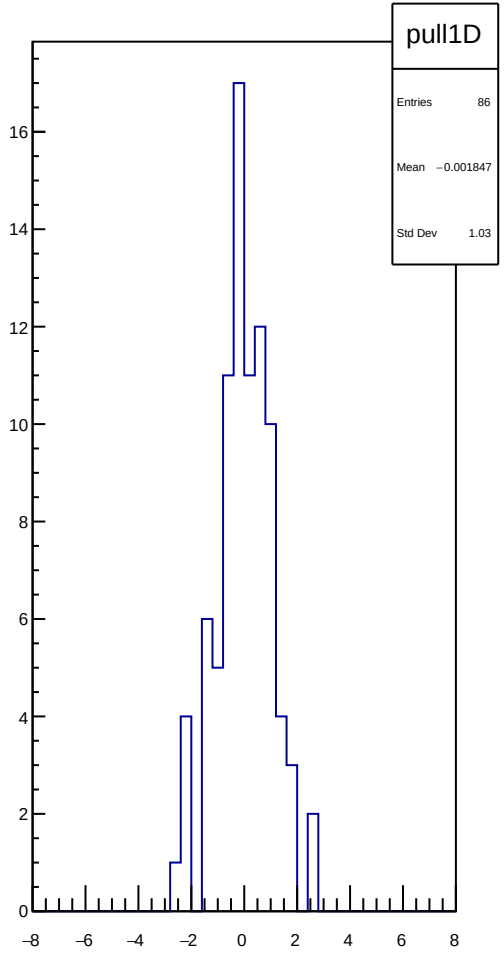

asym_us_avg_rms vs run
χ² / ndf 1.751e+04 / 85
p0 1615 ± 1.272
2000
1900
1800
1700
1600
1500
1400

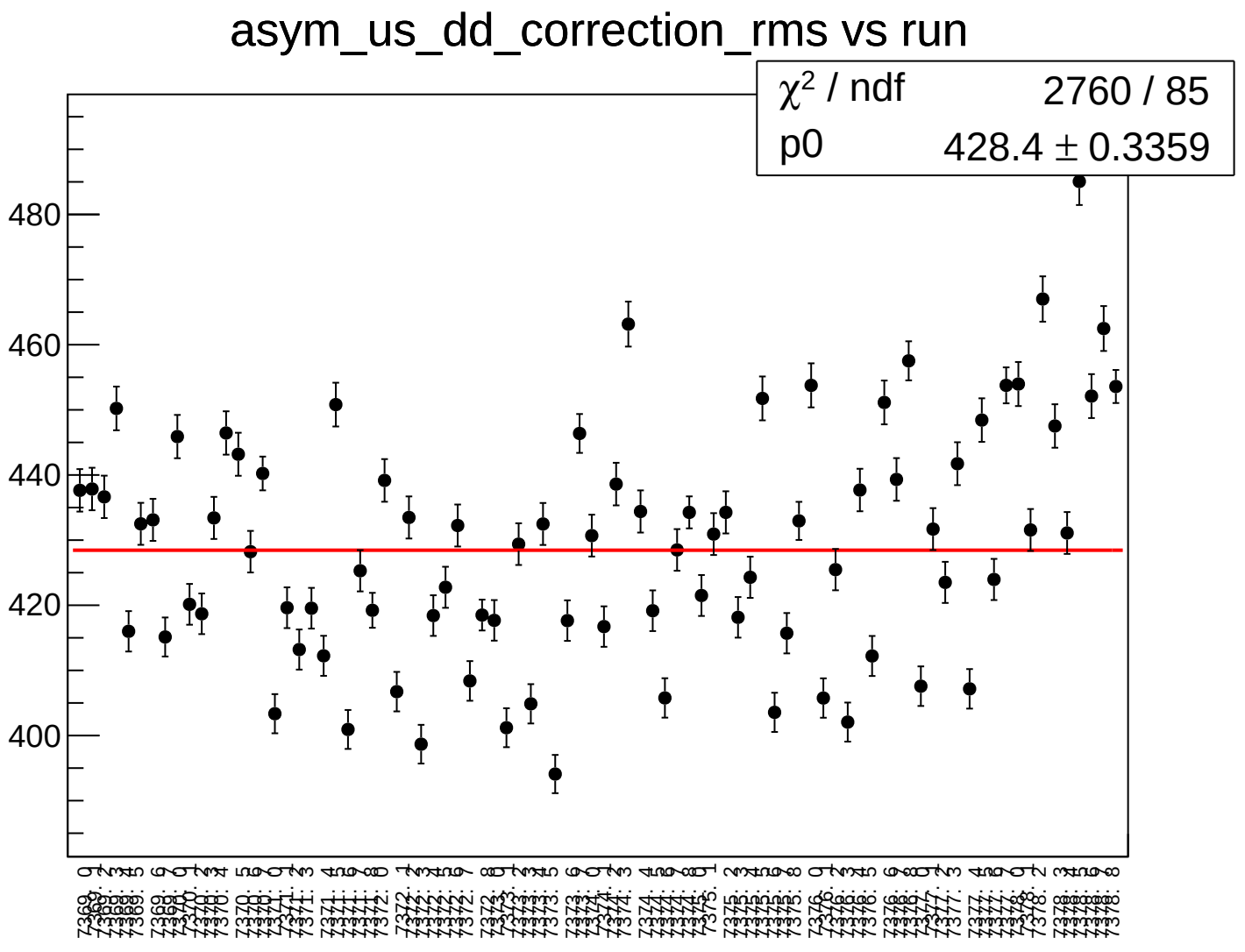

reg_asym_us_dd_mean vs run
χ² / ndf 94.37 / 85
p0 −562.5 ± 865.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 612
Std Dev 566.4
3
2
1
0
−1
−2
−3

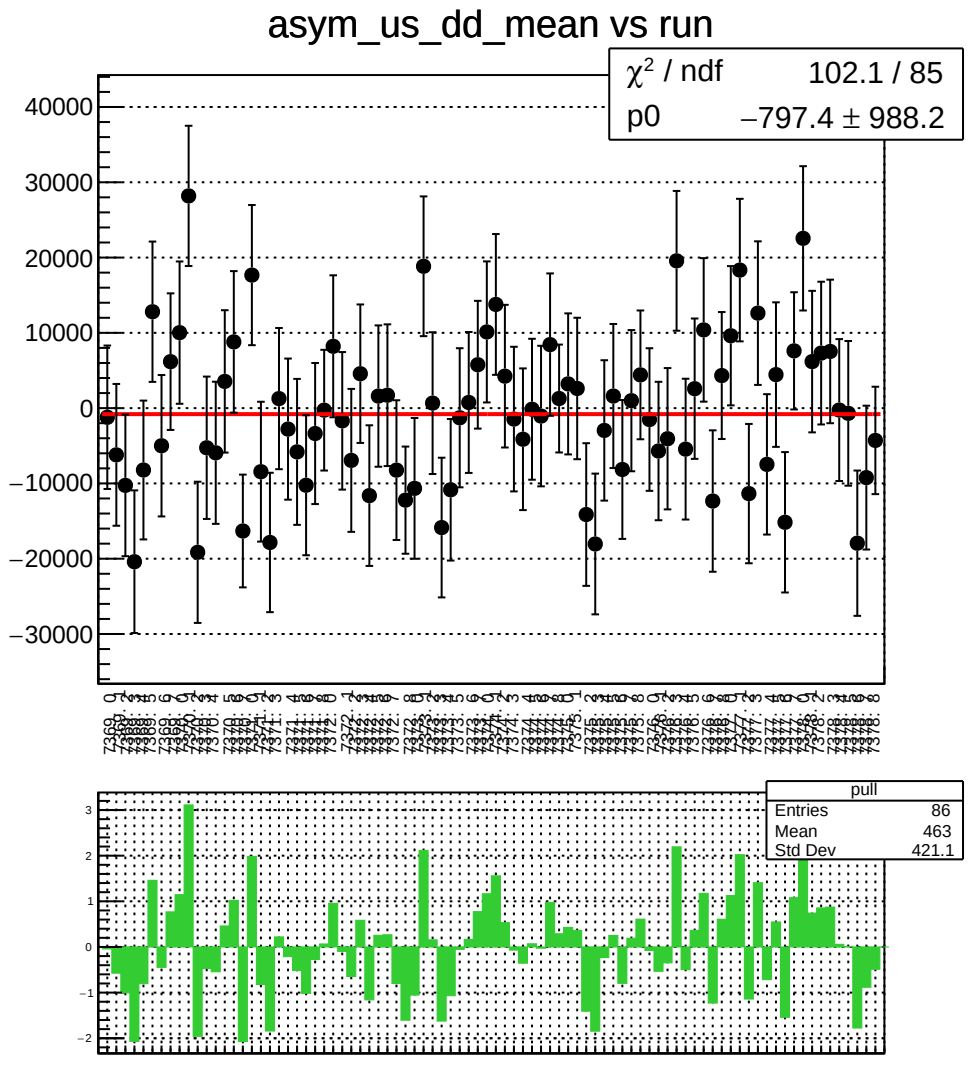

pull1D
Entries 86
Mean 0.006177
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

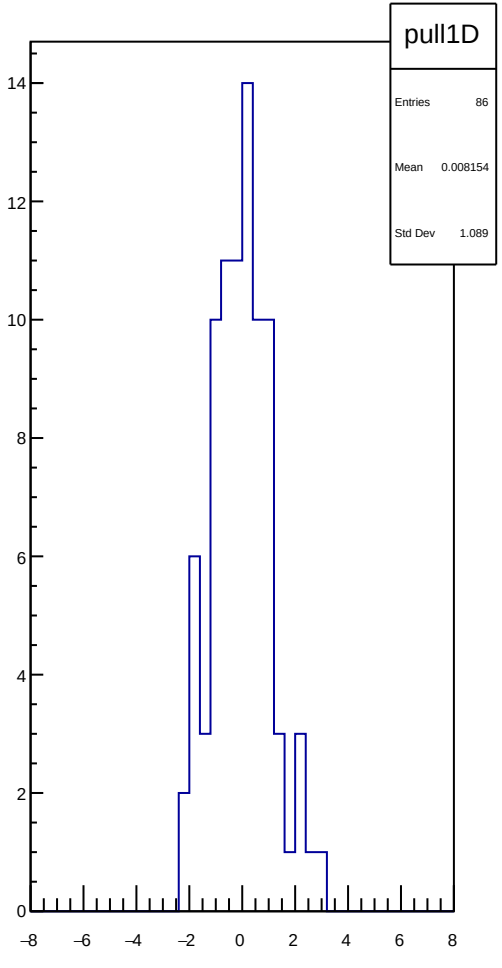

reg_asym_us_dd_rms vs run
χ² / ndf 90.44 / 85
p0 781.5 ± 0.6122
810
800
790
780
770
760

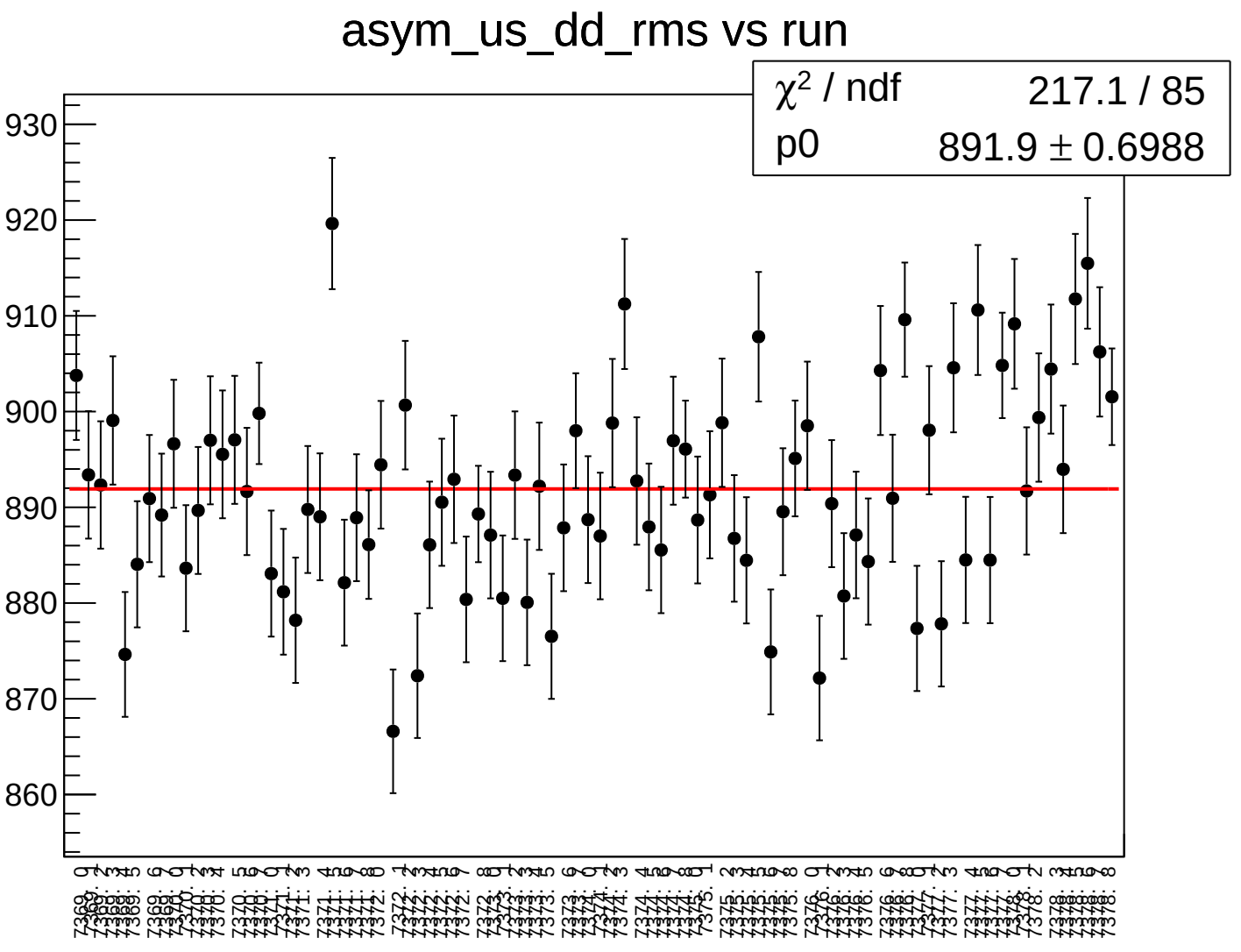

asym_us_dd_correction_mean vs run
χ² / ndf 91.17 / 85
p0 200.3 ± 475.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 435.3
Std Dev 426.9
3
2
1
0
−1
−2

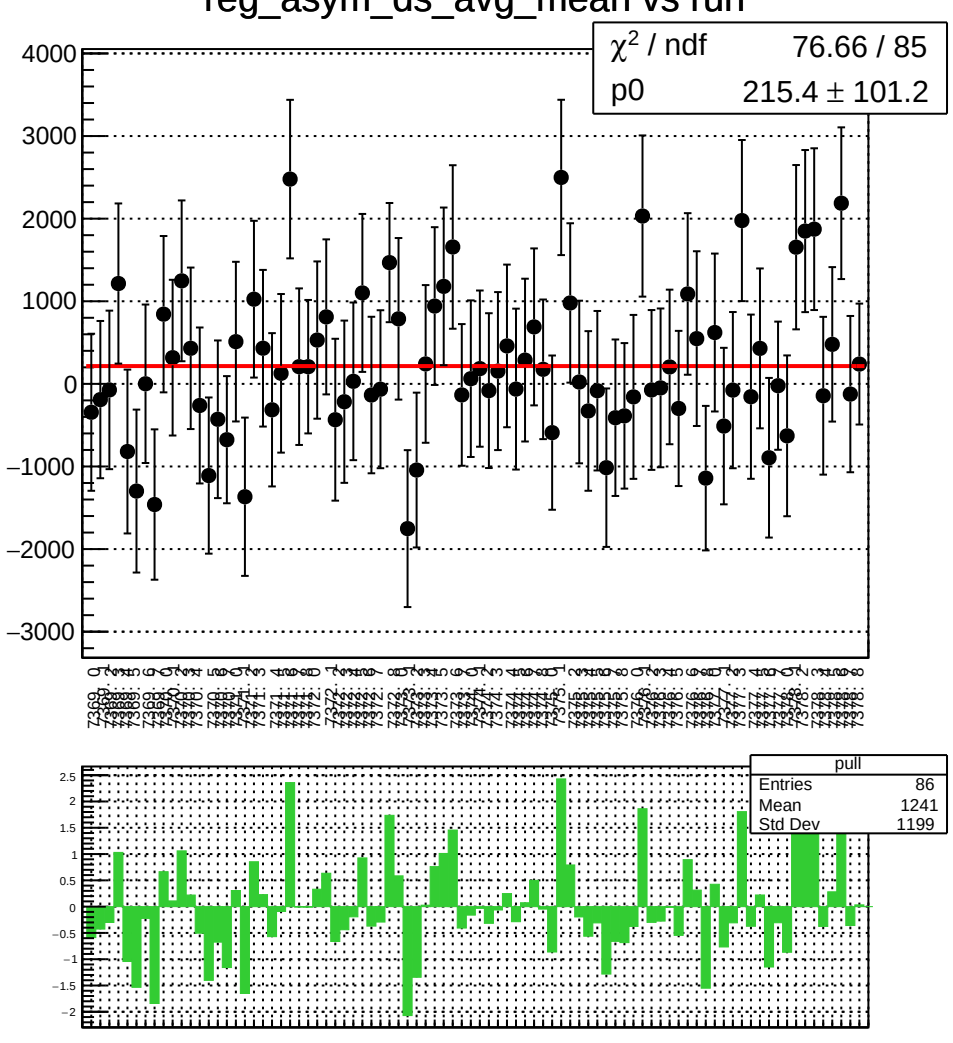

pull1D
Entries 86
Mean −0.001847
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

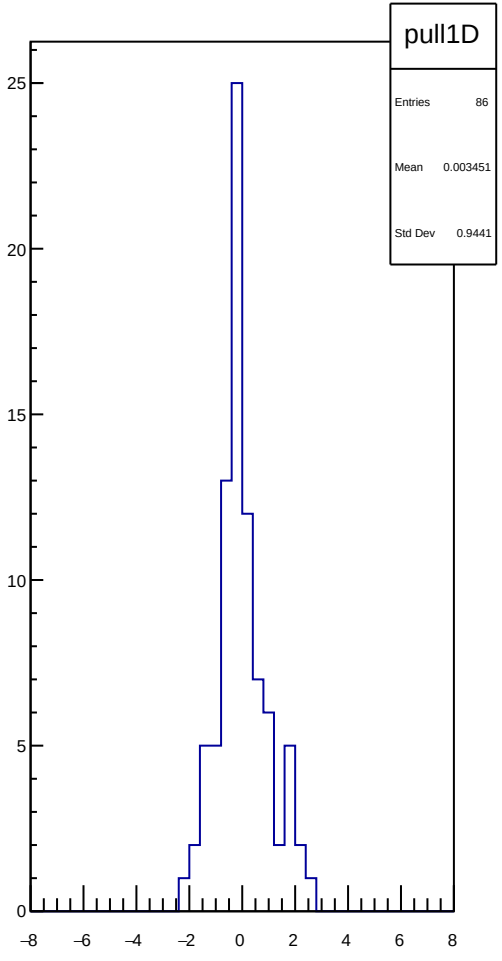

asym_us_dd_correction_rms vs run
χ² / ndf 2760 / 85
p0 428.4 ± 0.3359
480
460
440
420
400

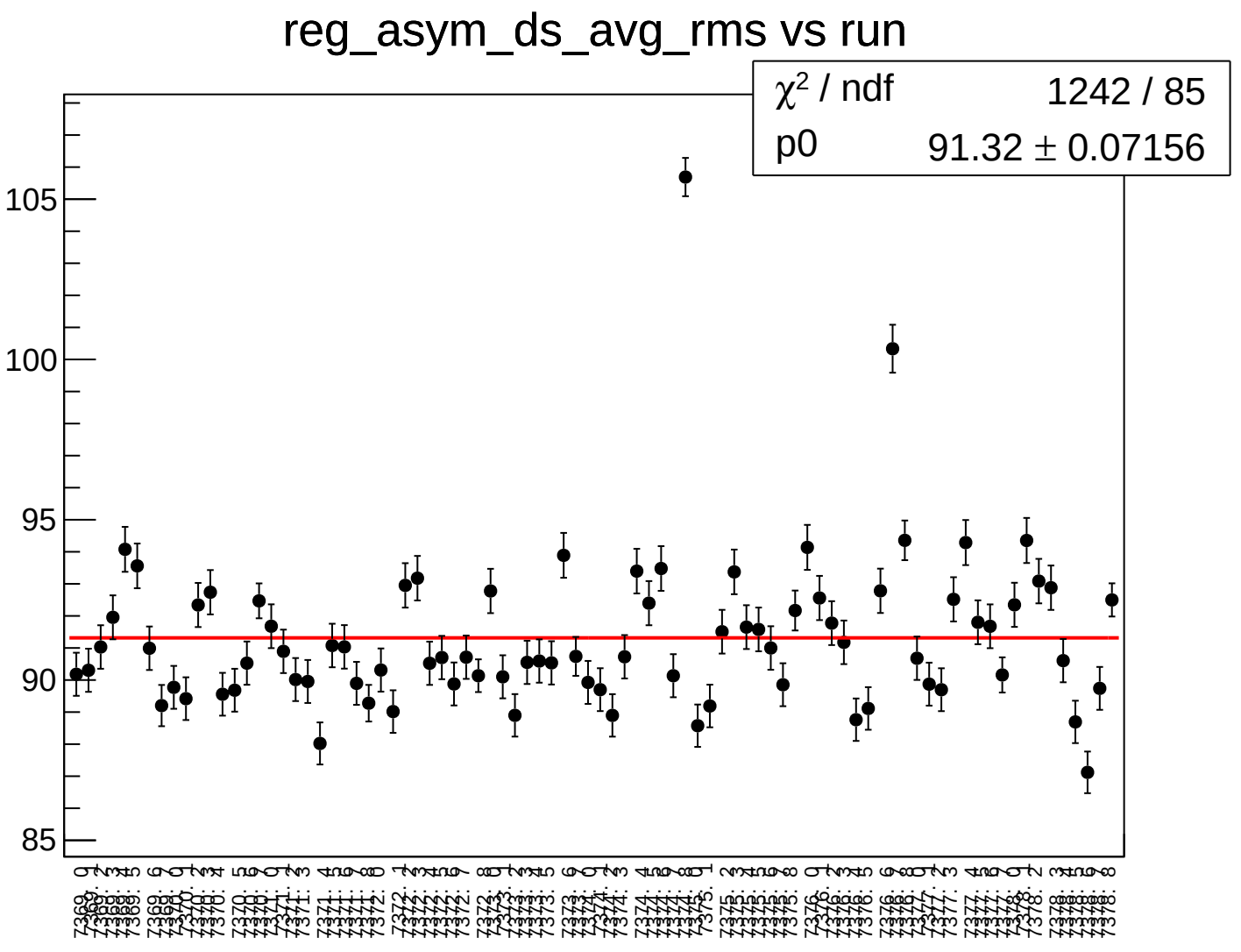

asym_us_dd_mean vs run
χ² / ndf 102.1 / 85
p0 −797.4 ± 988.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 463
Std Dev 421.1
3
2
1
0
−1
−2

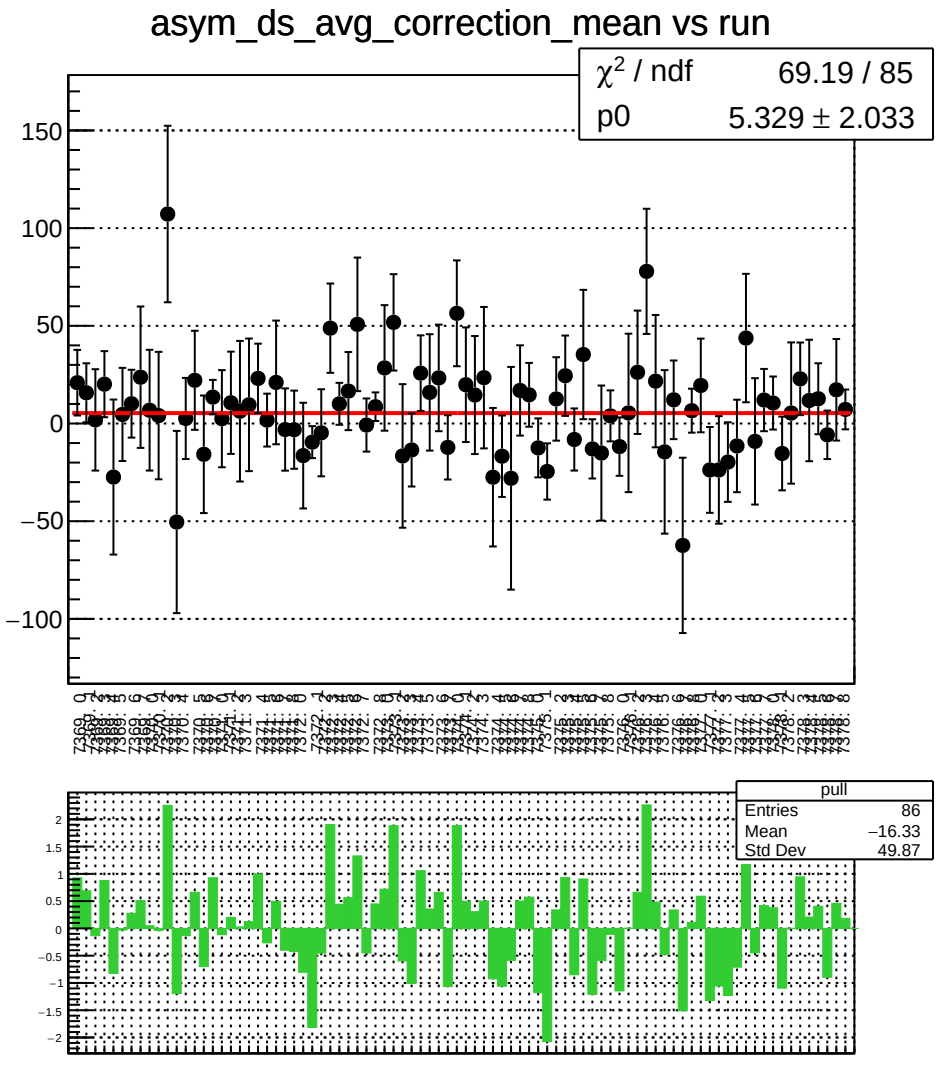

pull1D
Entries 86
Mean 0.008154
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

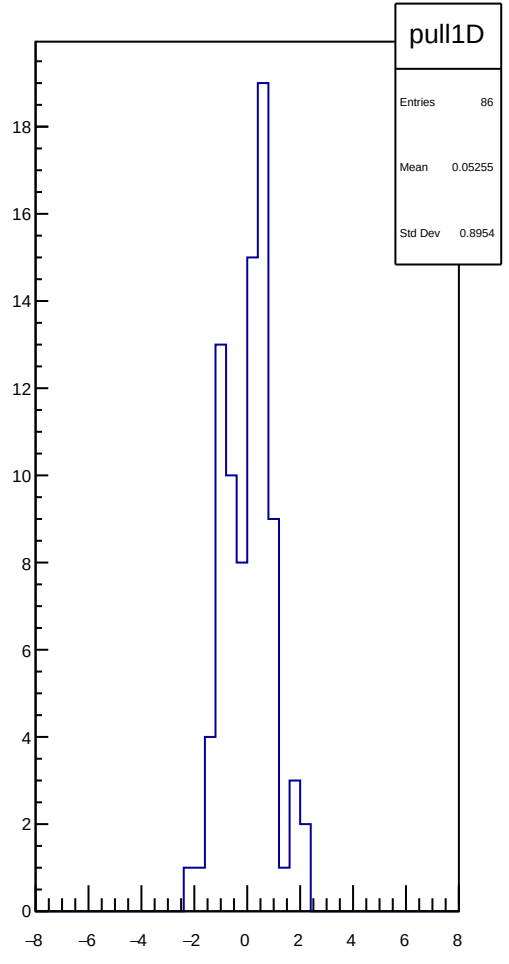

asym_us_dd_rms vs run
χ² / ndf 217.1 / 85
p0 891.9 ± 0.6988
930
920
910
900
890
880
870
860

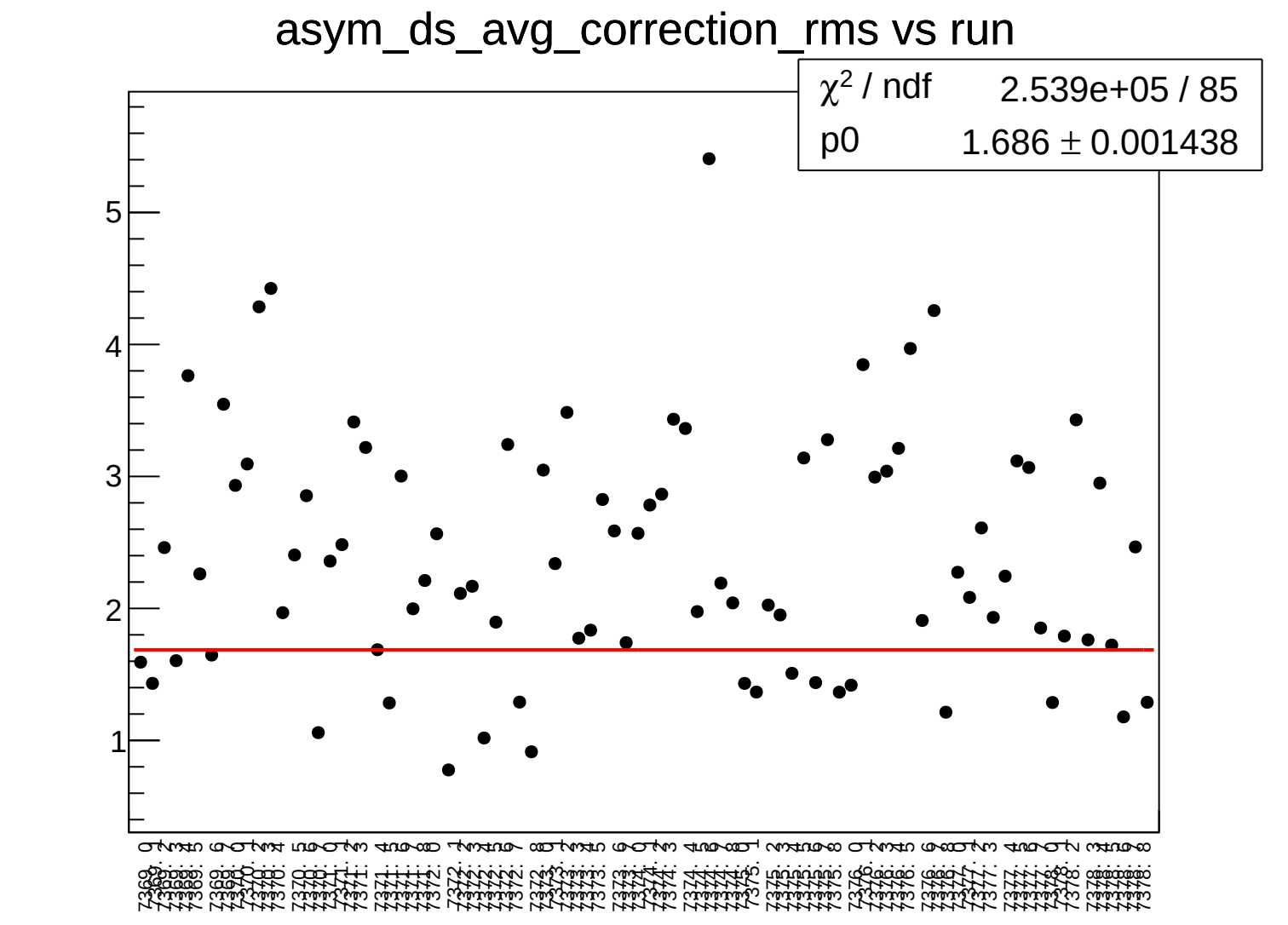

reg_asym_ds_avg_mean vs run
χ^2 / ndf 76.66 / 85
p0 215.4 ± 101.2
pull
Entries 86
Mean 1241
Std Dev 1199

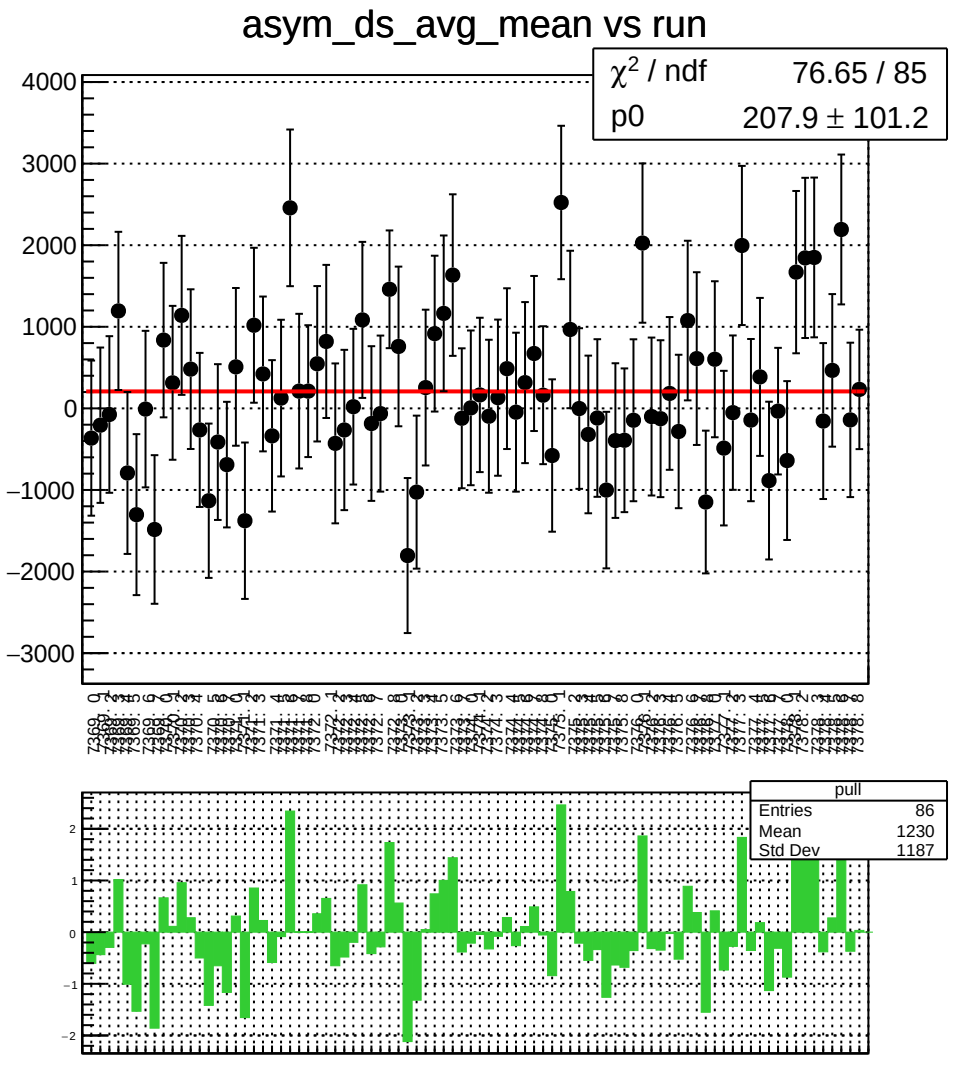

pull1D
Entries 86
Mean 0.003451
Std Dev 0.9441

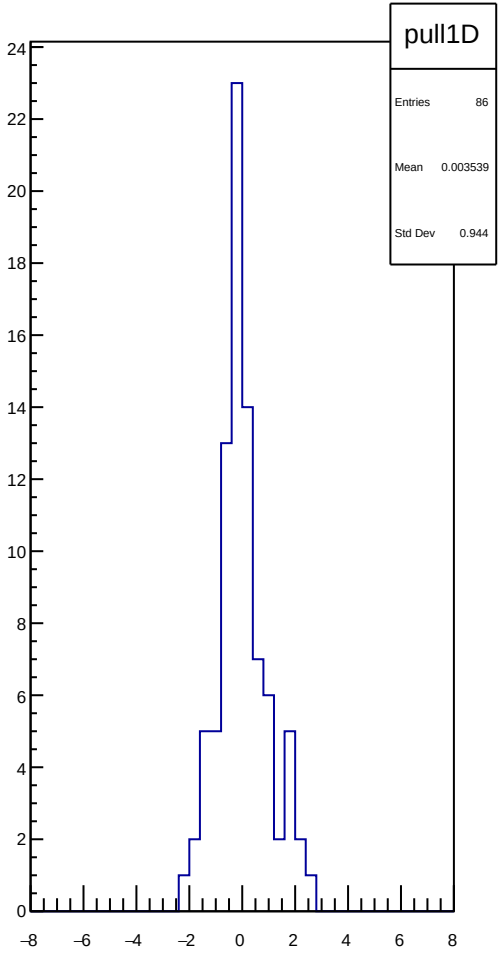

reg_asym_ds_avg_rms vs run
χ^2 / ndf 1242 / 85
p0 91.32 ± 0.07156
105
100
95
90
85

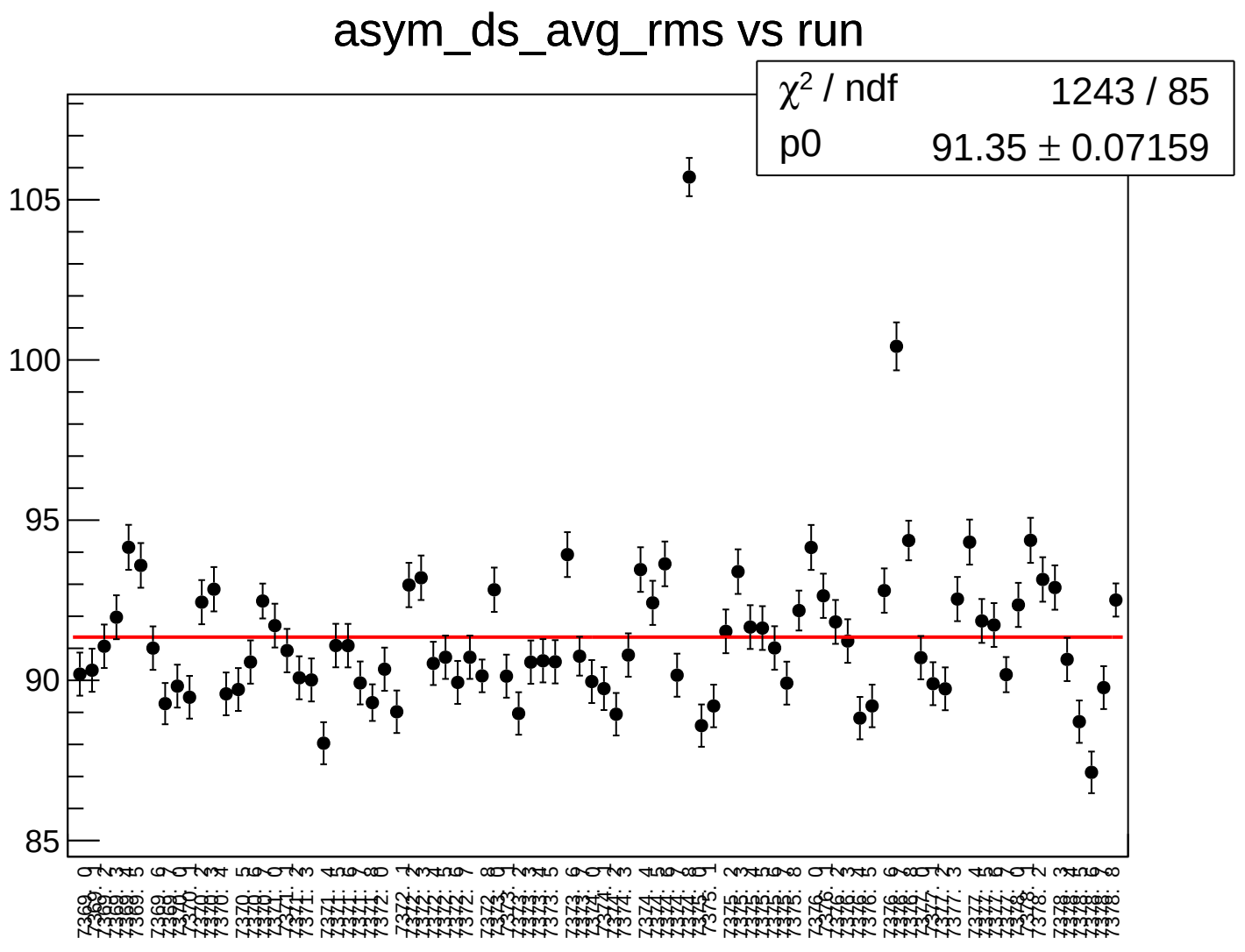

asym_ds_avg_correction_mean vs run
χ^2 / ndf 69.19 / 85
p0 5.329 ± 2.033
150
100
50
0
−50
−100
pull
Entries 86
Mean −16.33
Std Dev 49.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

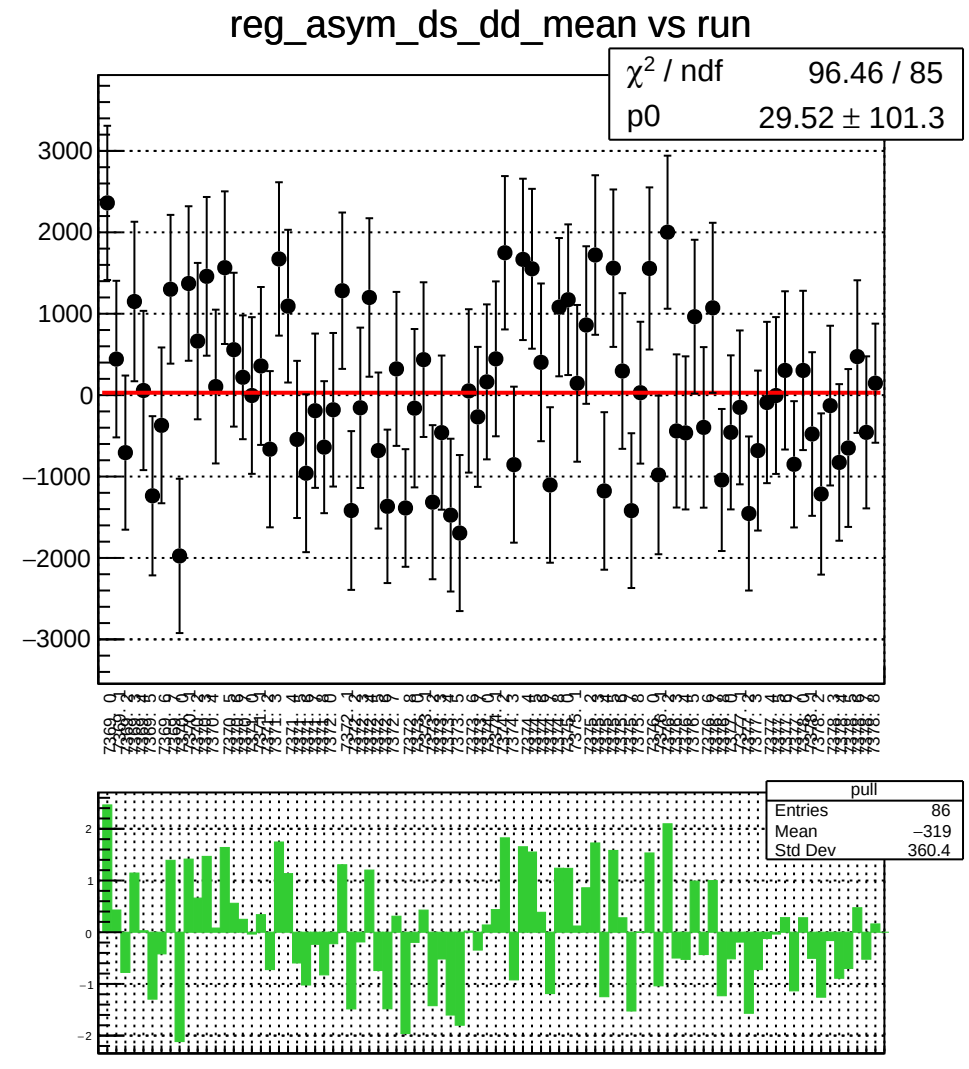

pull1D
Entries 86
Mean 0.05255
Std Dev 0.8954
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

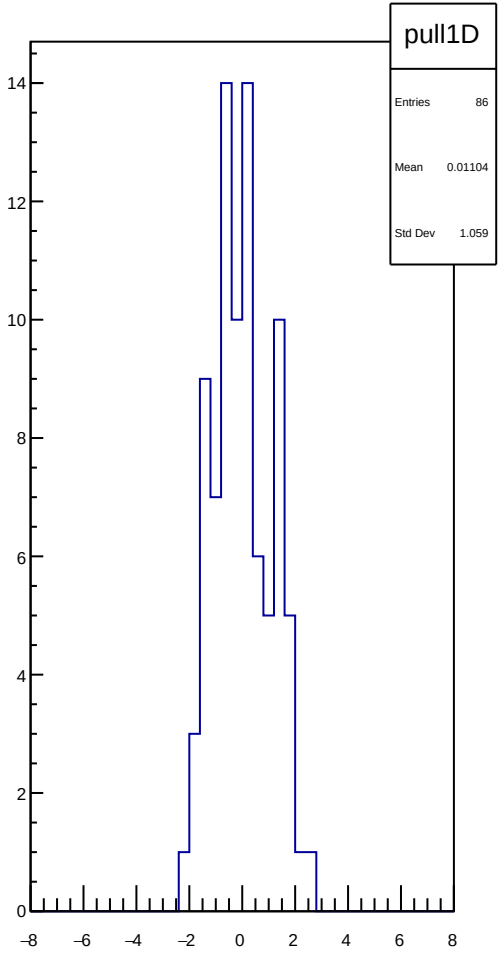

asym_ds_avg_correction_rms vs run
χ^2 / ndf 2.539e+05 / 85
p0 1.686 ± 0.001438
5
4
3
2
1

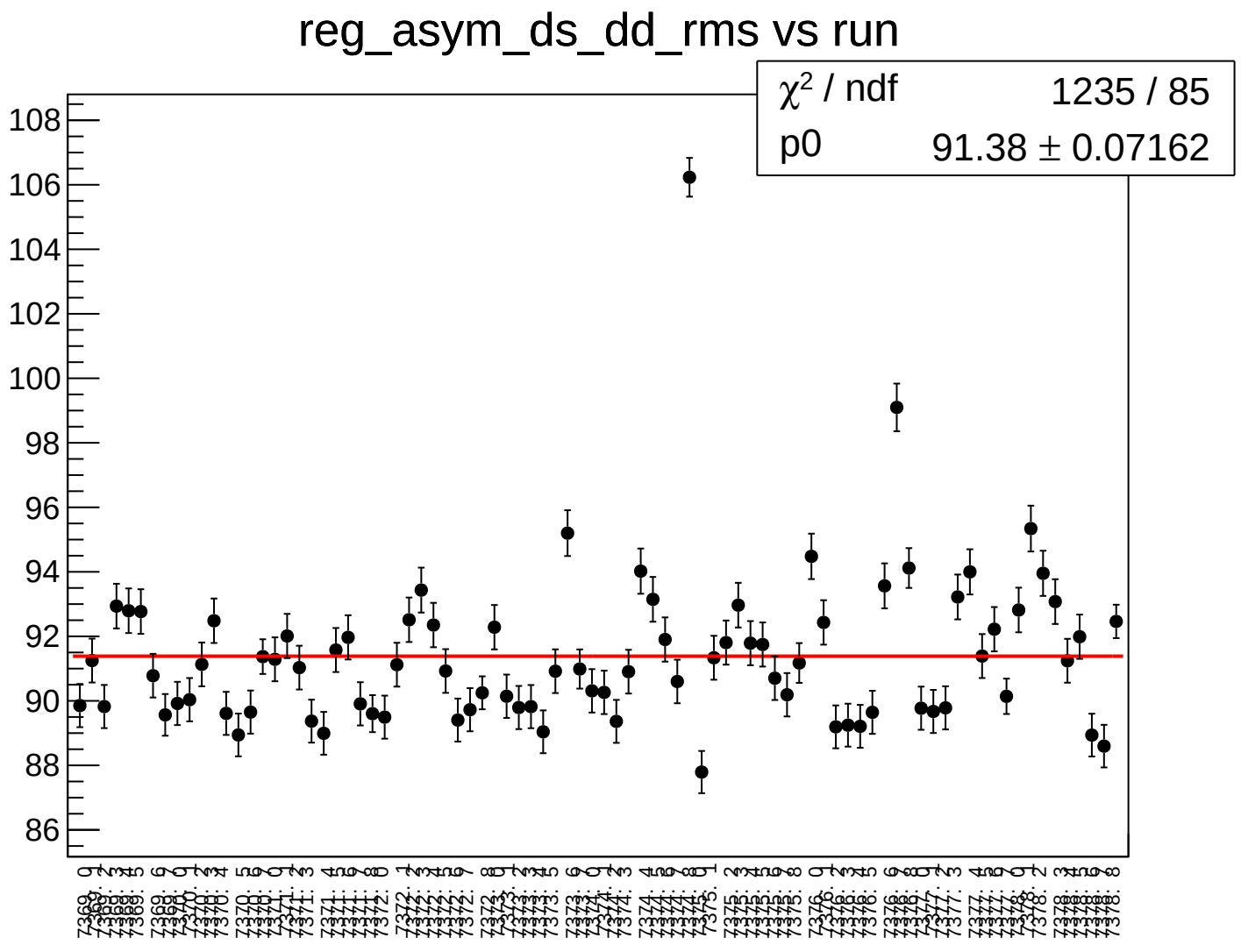

asym_ds_avg_mean vs run
χ^2 / ndf 76.65 / 85
p0 207.9 ± 101.2
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean 1230
Std Dev 1187
2
1
0
−1
−2

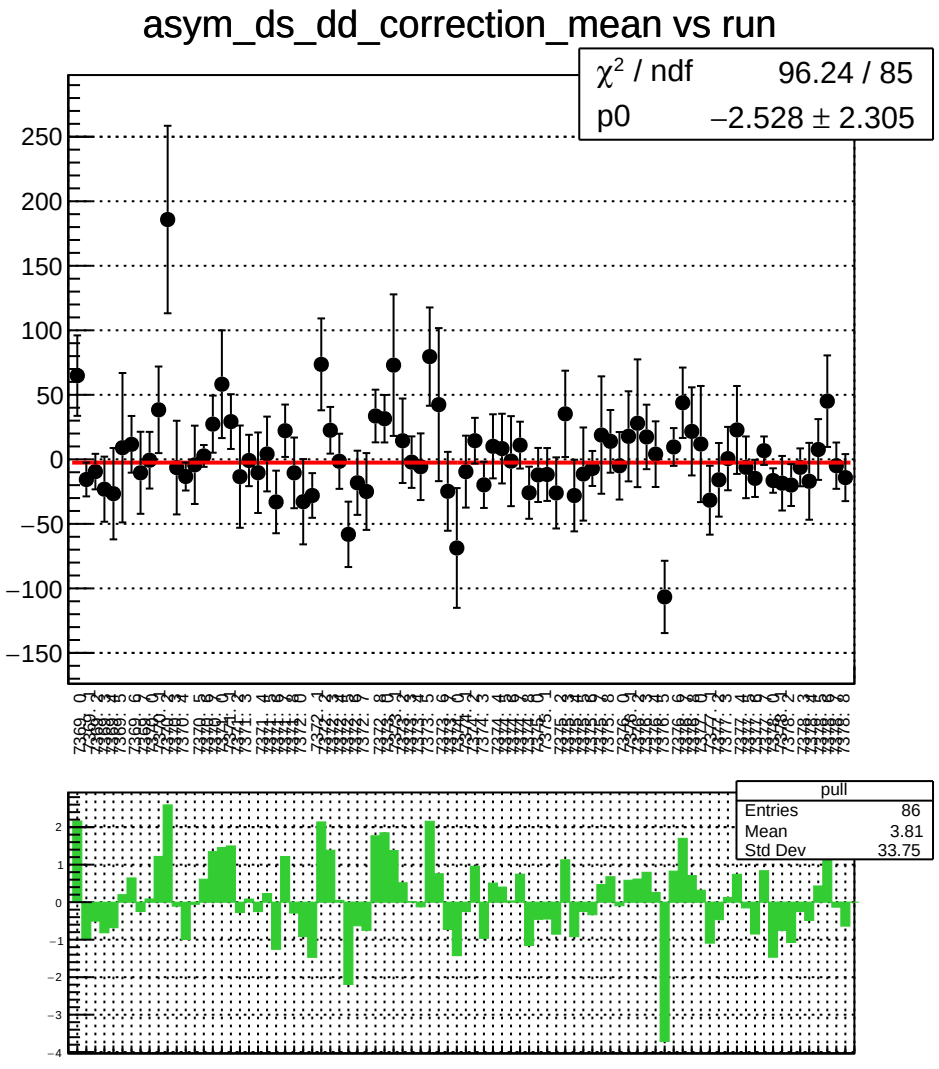

pull1D
Entries 86
Mean 0.003539
Std Dev 0.944
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

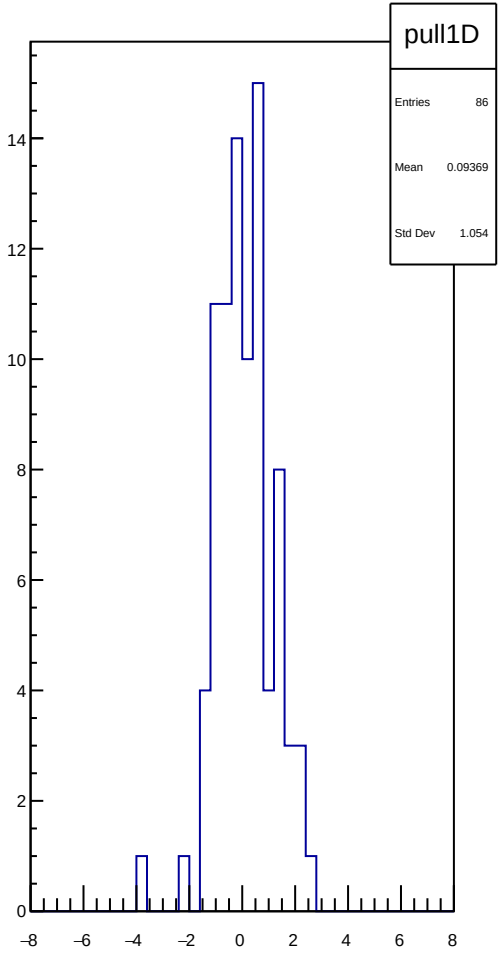

asym_ds_avg_rms vs run
χ^2 / ndf 1243 / 85
p0 91.35 ± 0.07159
105
100
95
90
85

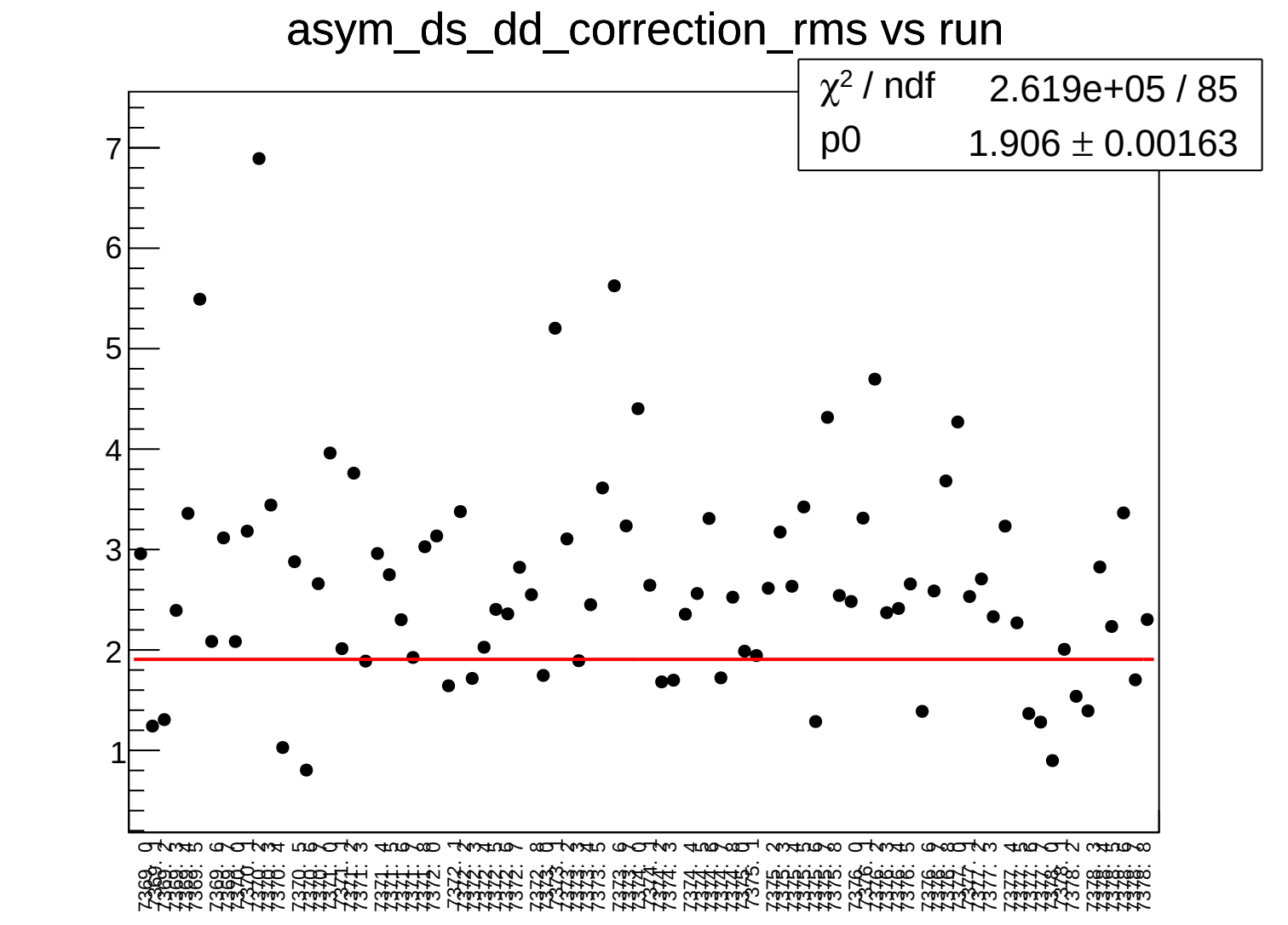

reg_asym_ds_dd_mean vs run
χ² / ndf 96.46 / 85
p0 29.52 ± 101.3
pull
Entries 86
Mean −319
Std Dev 360.4

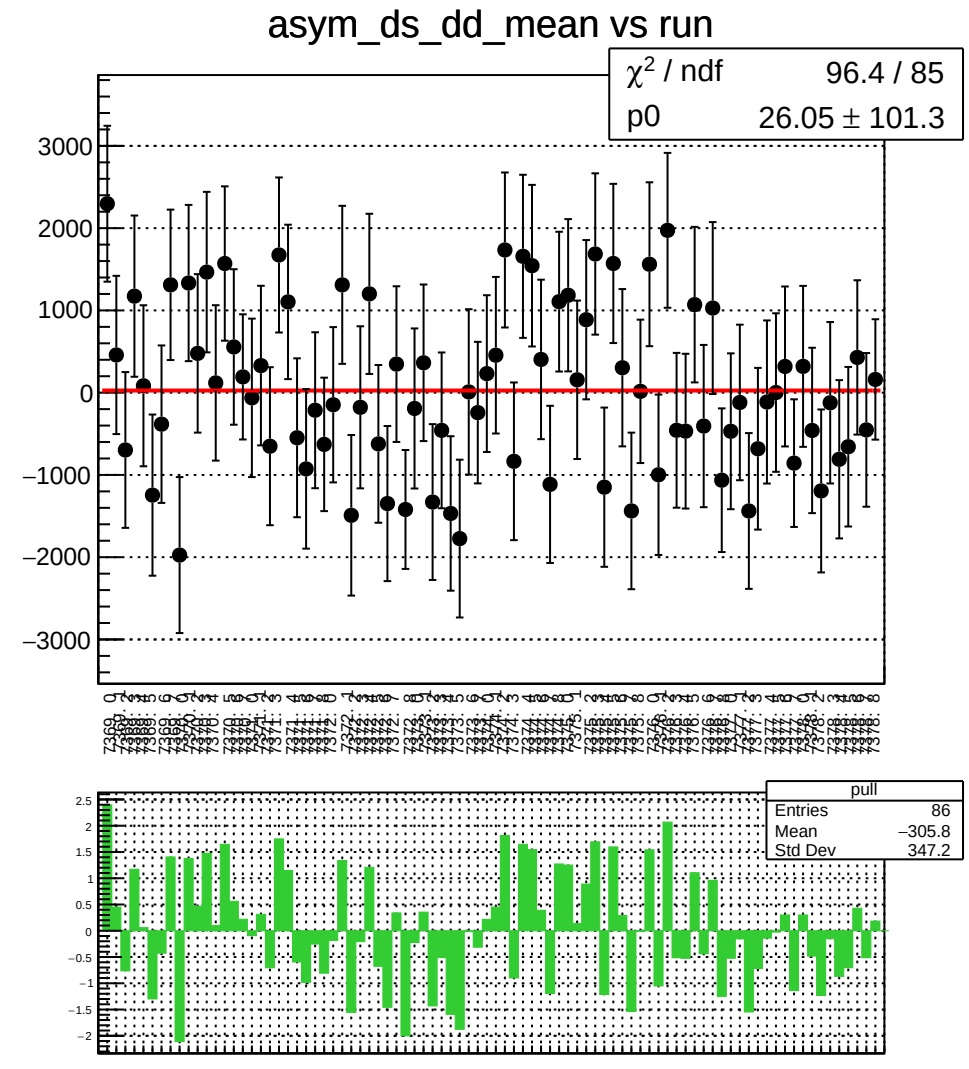

pull1D
Entries 86
Mean 0.01104
Std Dev 1.059

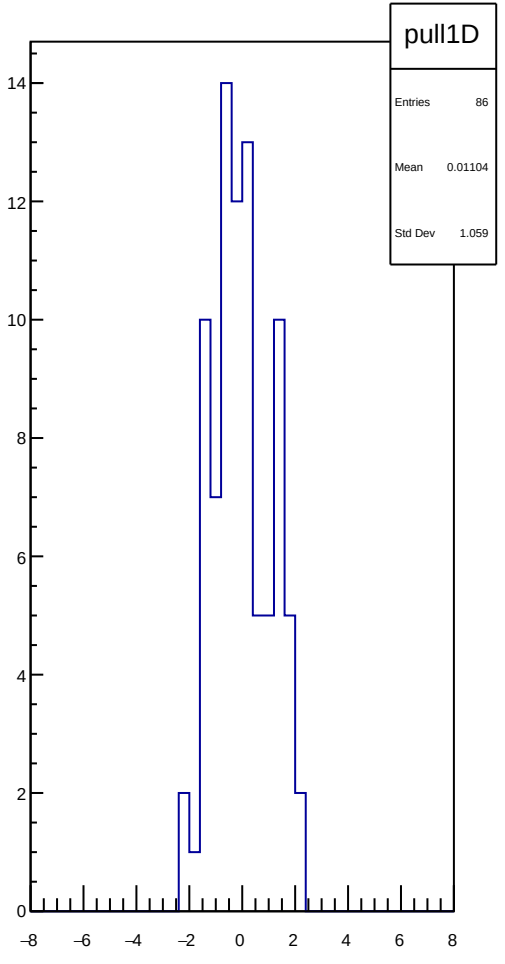

reg_asym_ds_dd_rms vs run
χ² / ndf 1235 / 85
p0 91.38 ± 0.07162
108
106
104
102
100
98
96
94
92
90
88
86

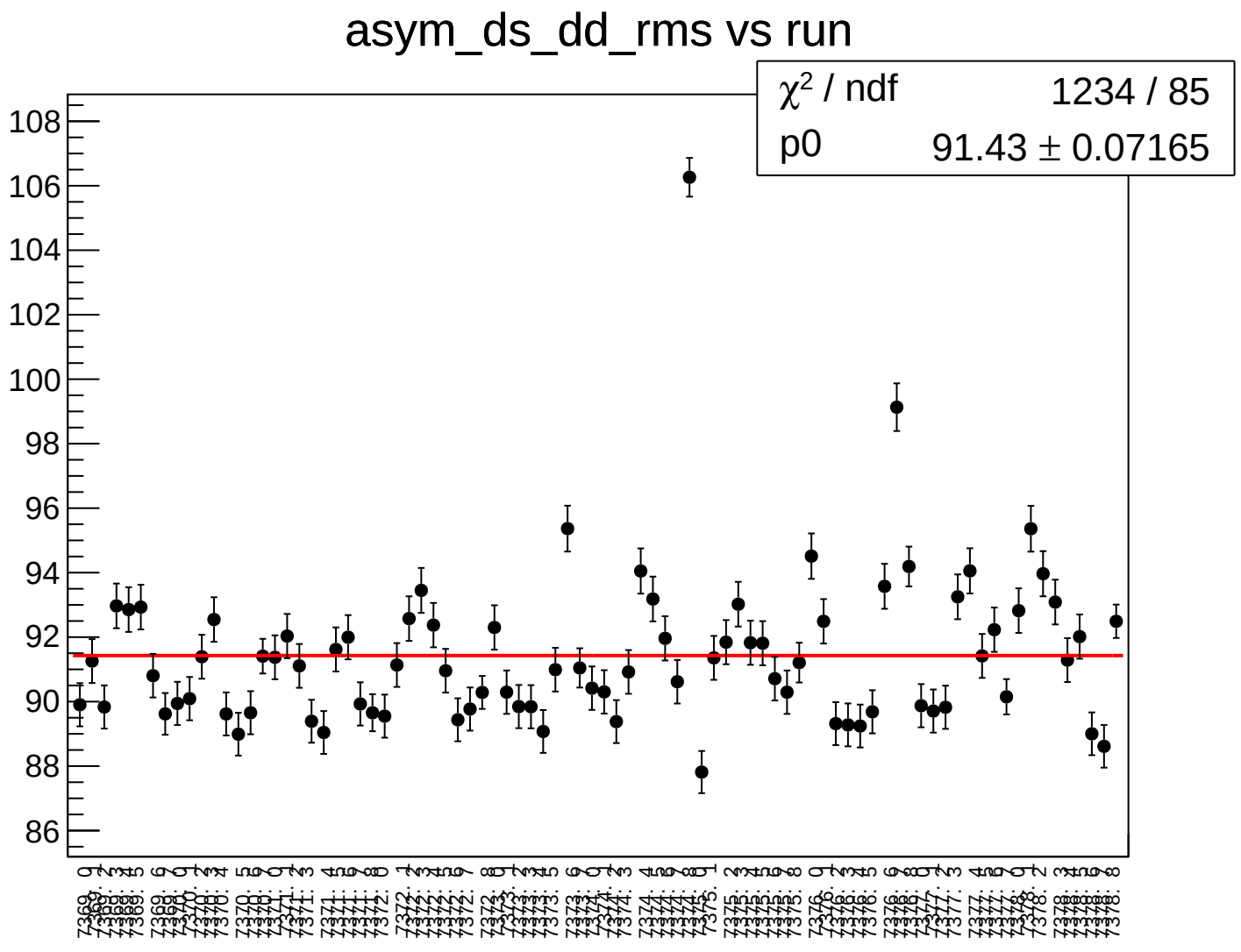

asym_ds_dd_correction_mean vs run
χ² / ndf 96.24 / 85
p0 −2.528 ± 2.305
pull
Entries 86
Mean 3.81
Std Dev 33.75

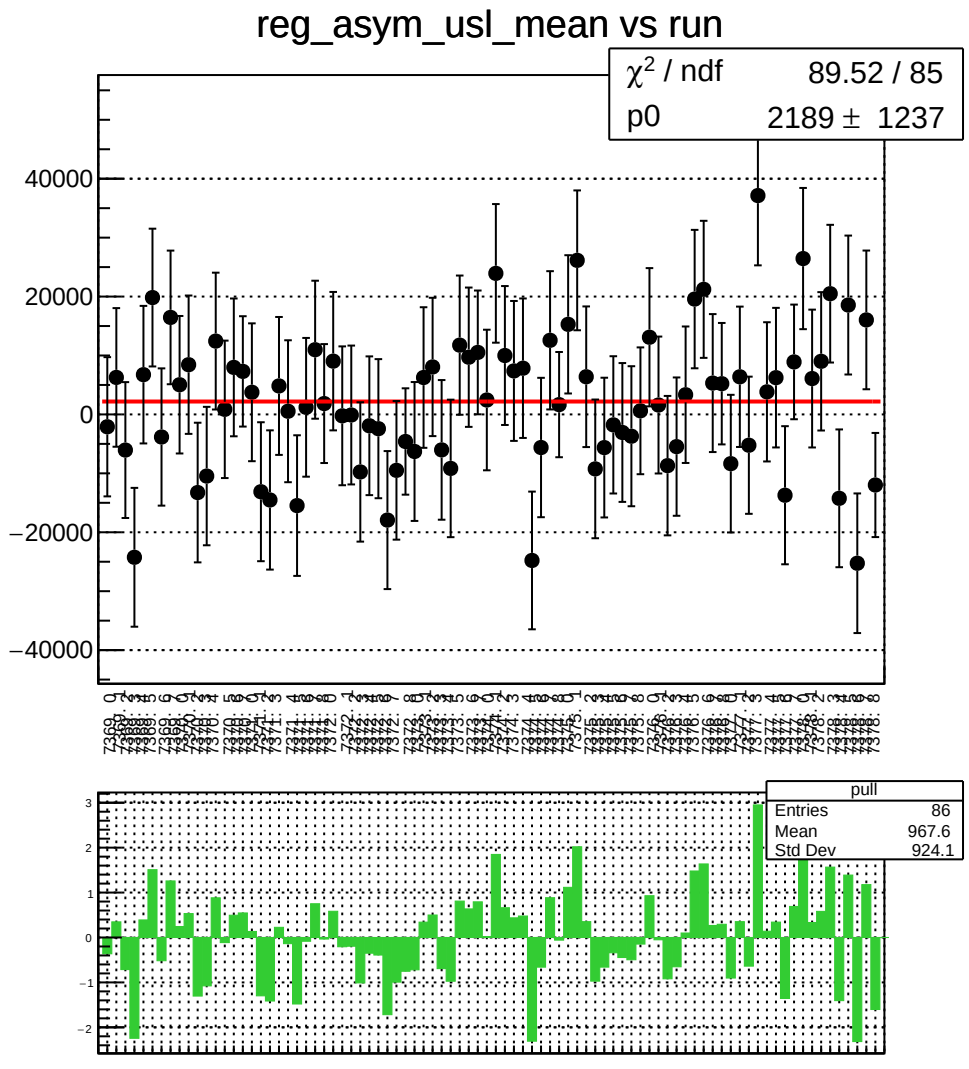

pull1D
Entries 86
Mean 0.09369
Std Dev 1.054

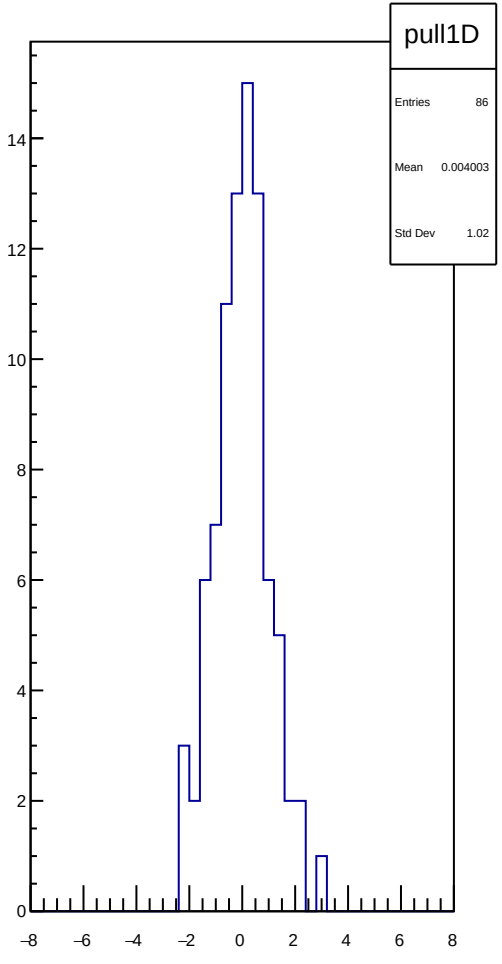

asym_ds_dd_correction_rms vs run
χ² / ndf 2.619e+05 / 85
p0 1.906 ± 0.00163
7
6
5
4
3
2
1

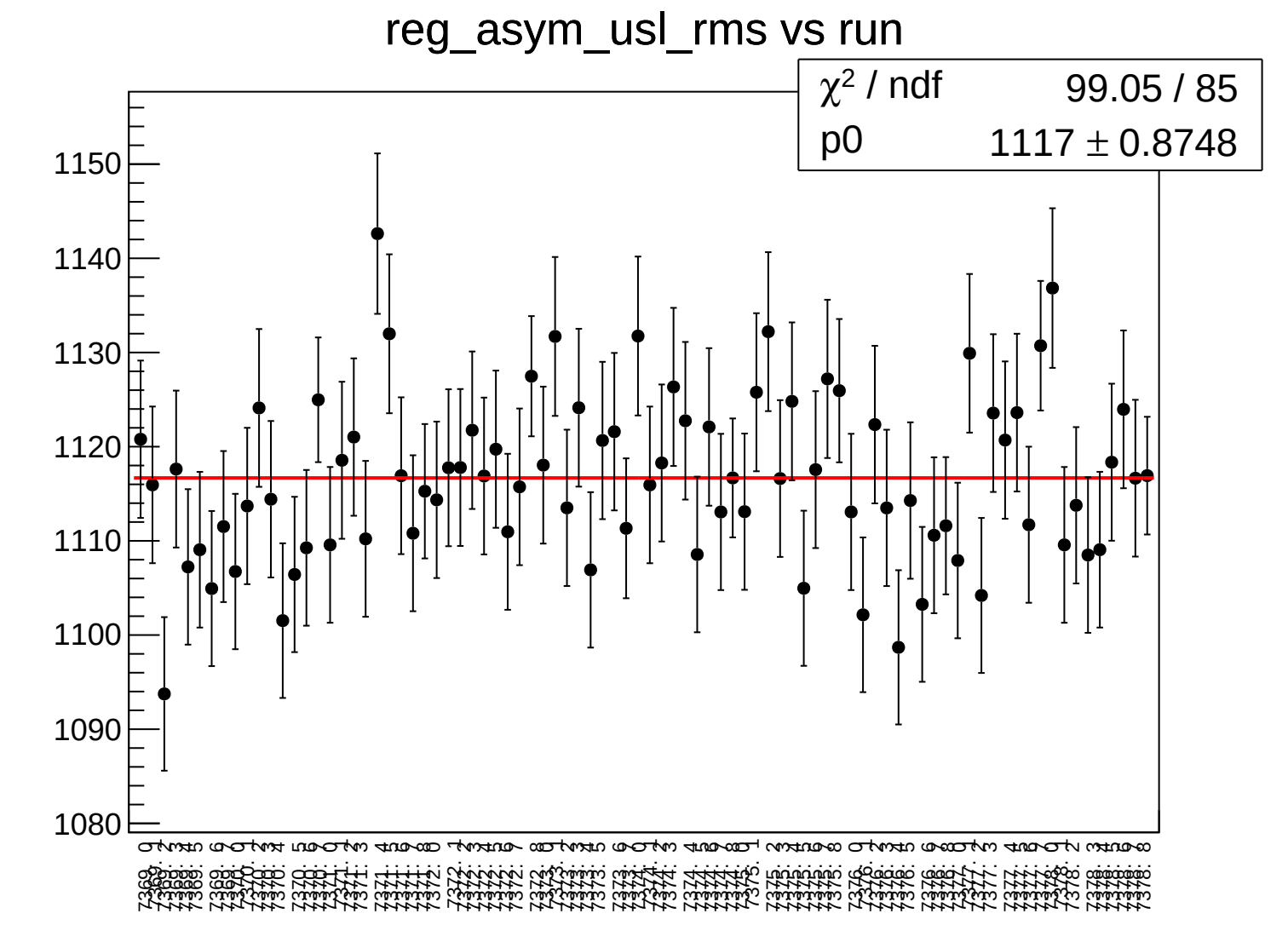

asym_ds_dd_mean vs run
χ^2 / ndf 96.4 / 85
p0 26.05 ± 101.3
pull
Entries 86
Mean −305.8
Std Dev 347.2

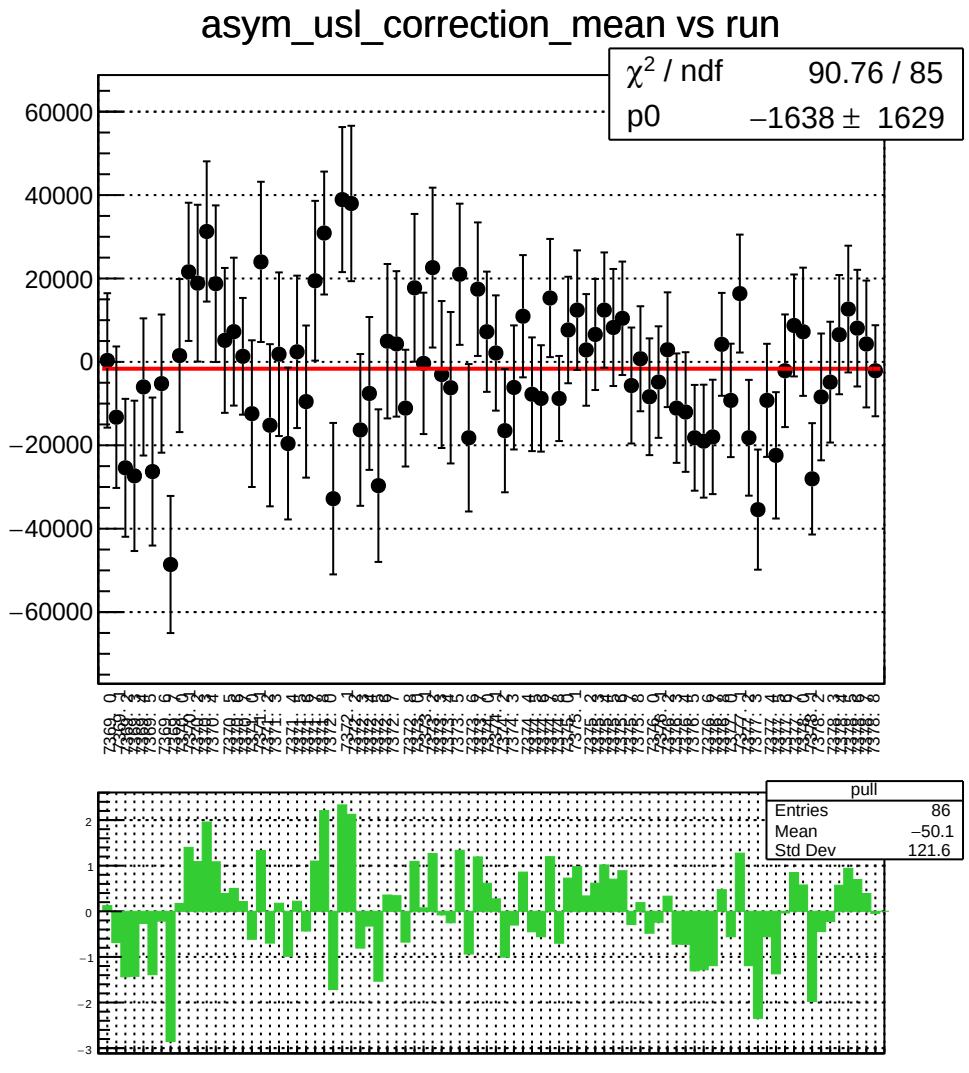

pull1D
Entries 86
Mean 0.01104
Std Dev 1.059

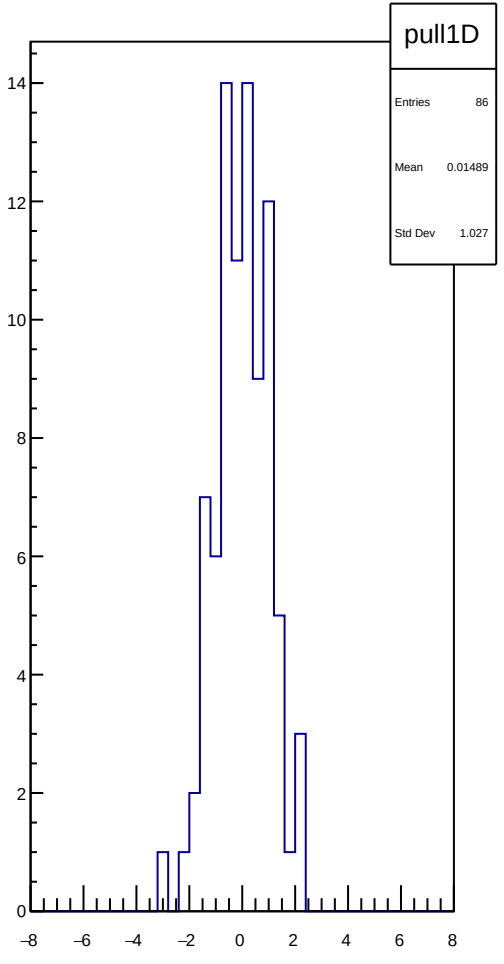

asym_ds_dd_rms vs run
χ² / ndf 1234 / 85
p0 91.43 ± 0.07165
108
106
104
102
100
98
96
94
92
90
88
86

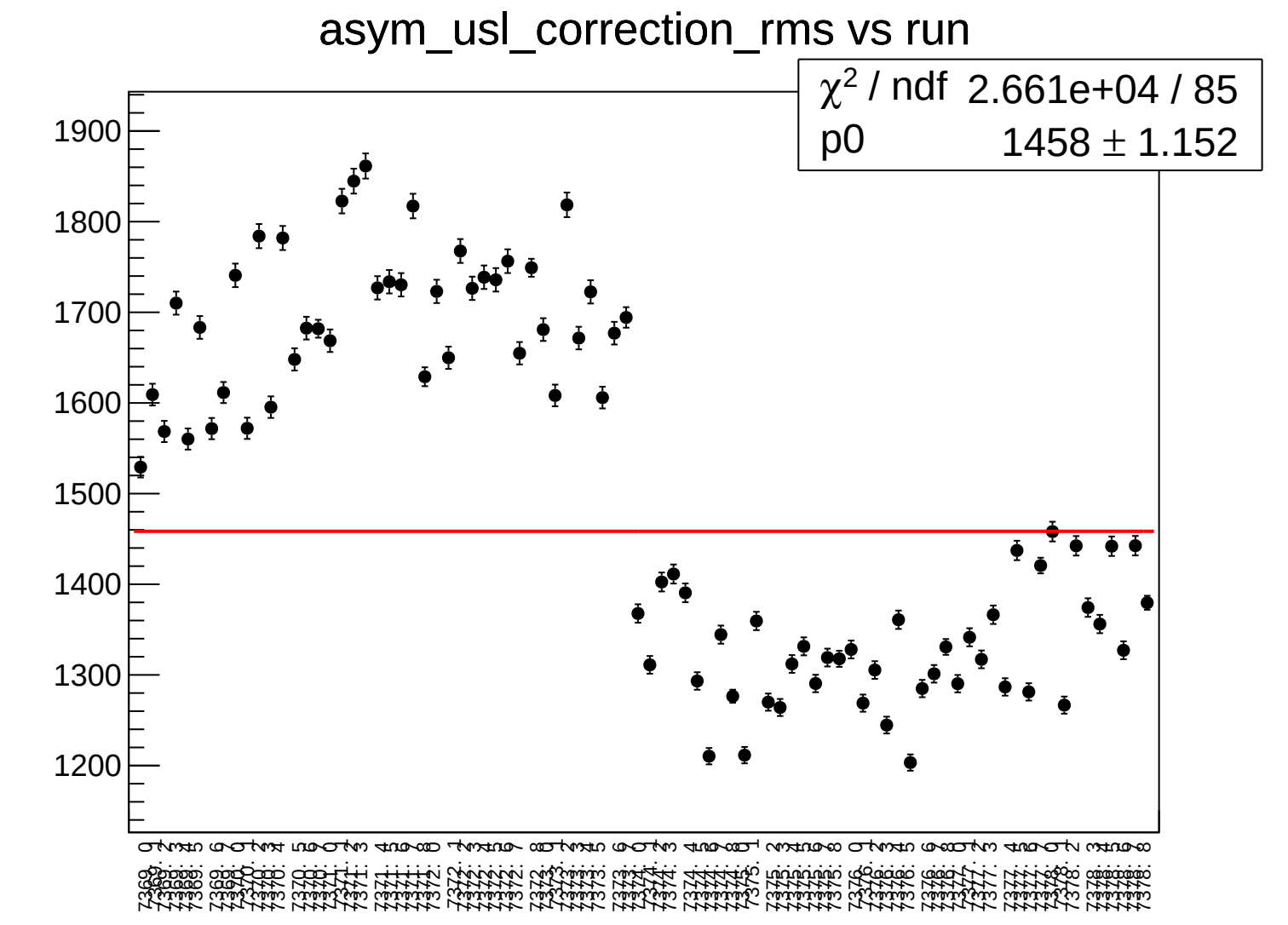

reg_asym_usl_mean vs run
χ² / ndf 89.52 / 85
p0 2189 ± 1237
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 967.6
Std Dev 924.1
3
2
1
0
−1
−2

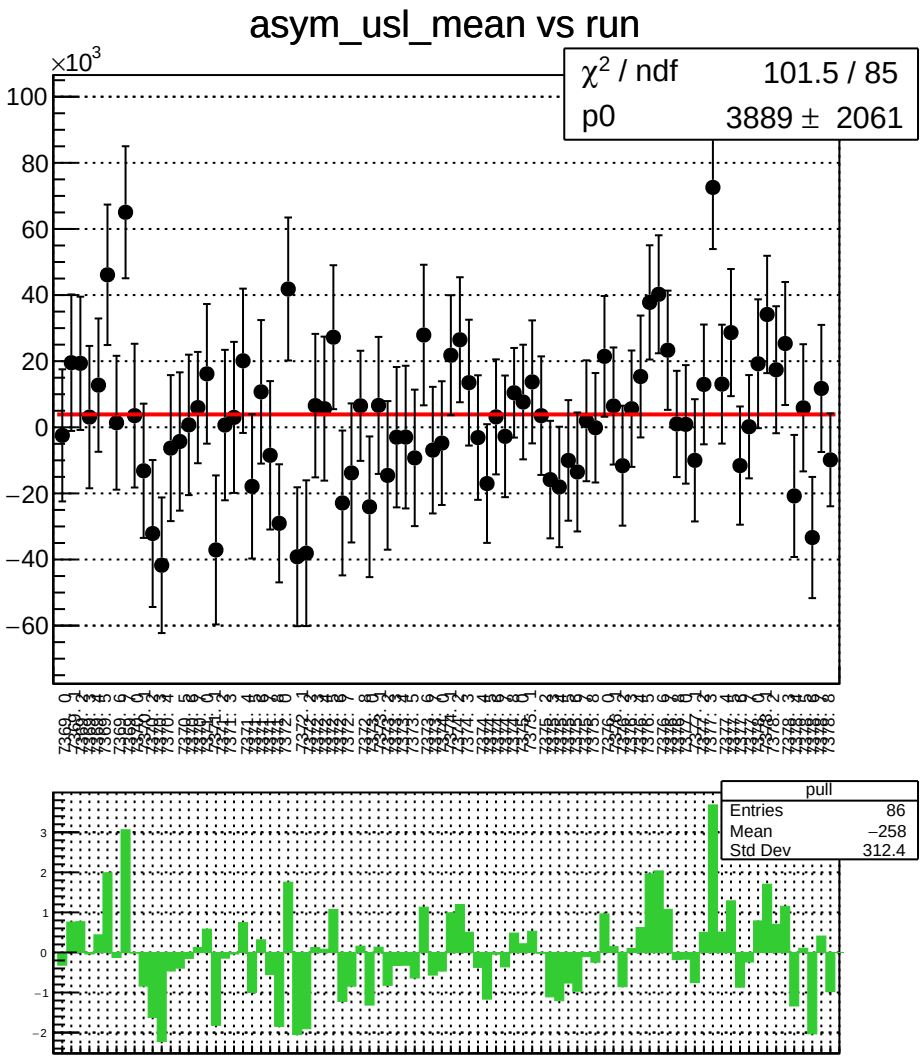

pull1D
Entries 86
Mean 0.004003
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

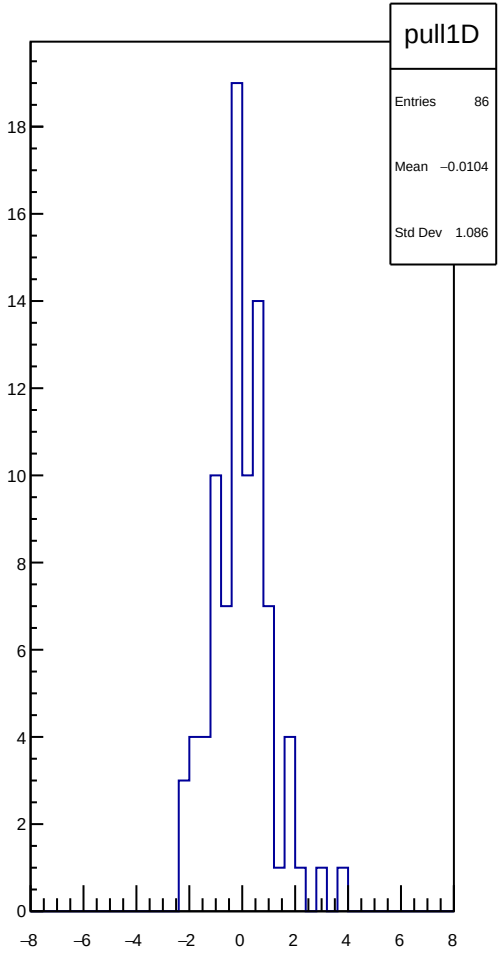

reg_asym_usl_rms vs run
χ² / ndf 99.05 / 85
p0 1117 ± 0.8748
1150
1140
1130
1120
1110
1100
1090
1080

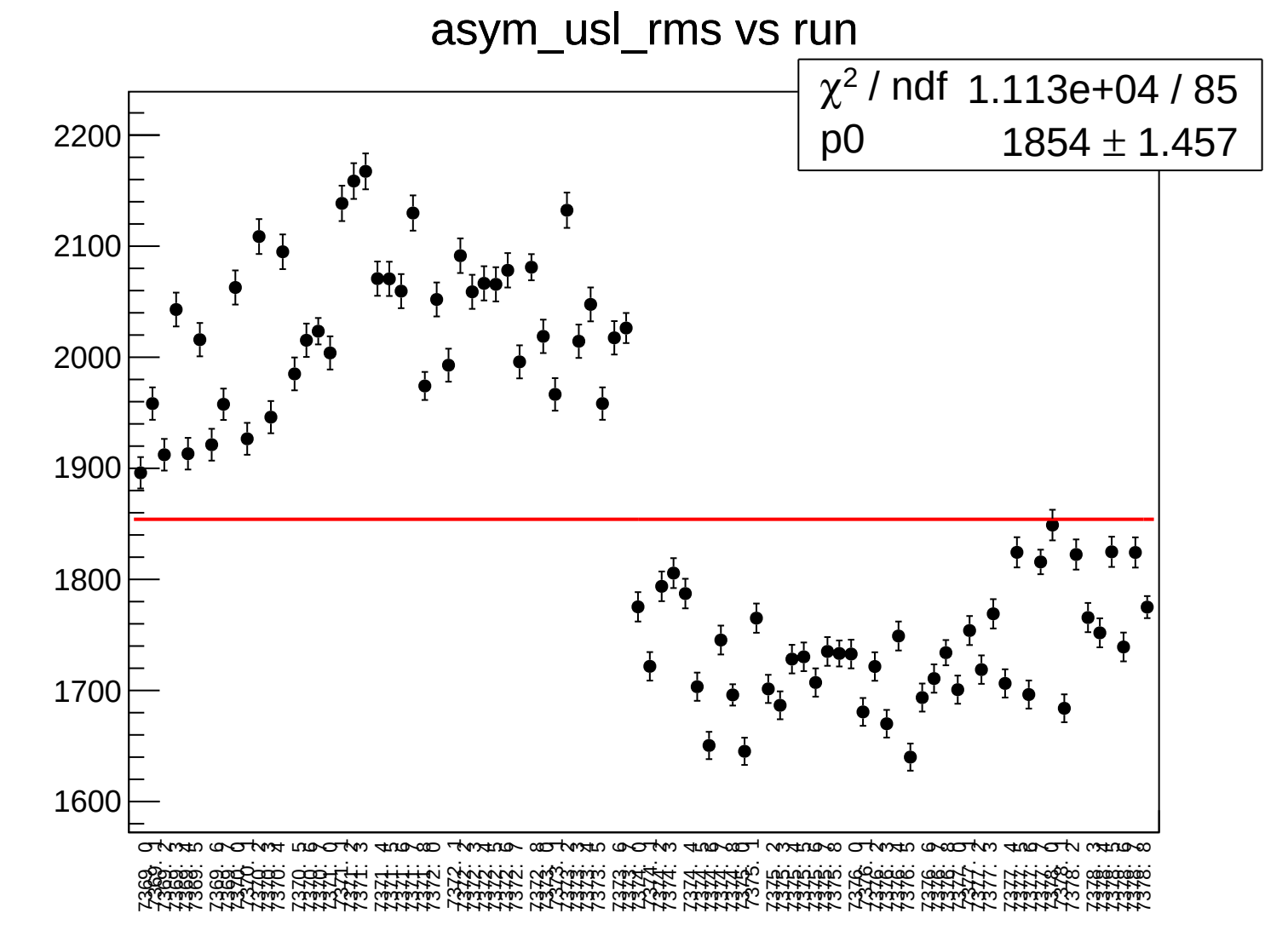

asym_usl_correction_mean vs run
χ² / ndf 90.76 / 85
p0 −1638 ± 1629
pull
Entries 86
Mean −50.1
Std Dev 121.6

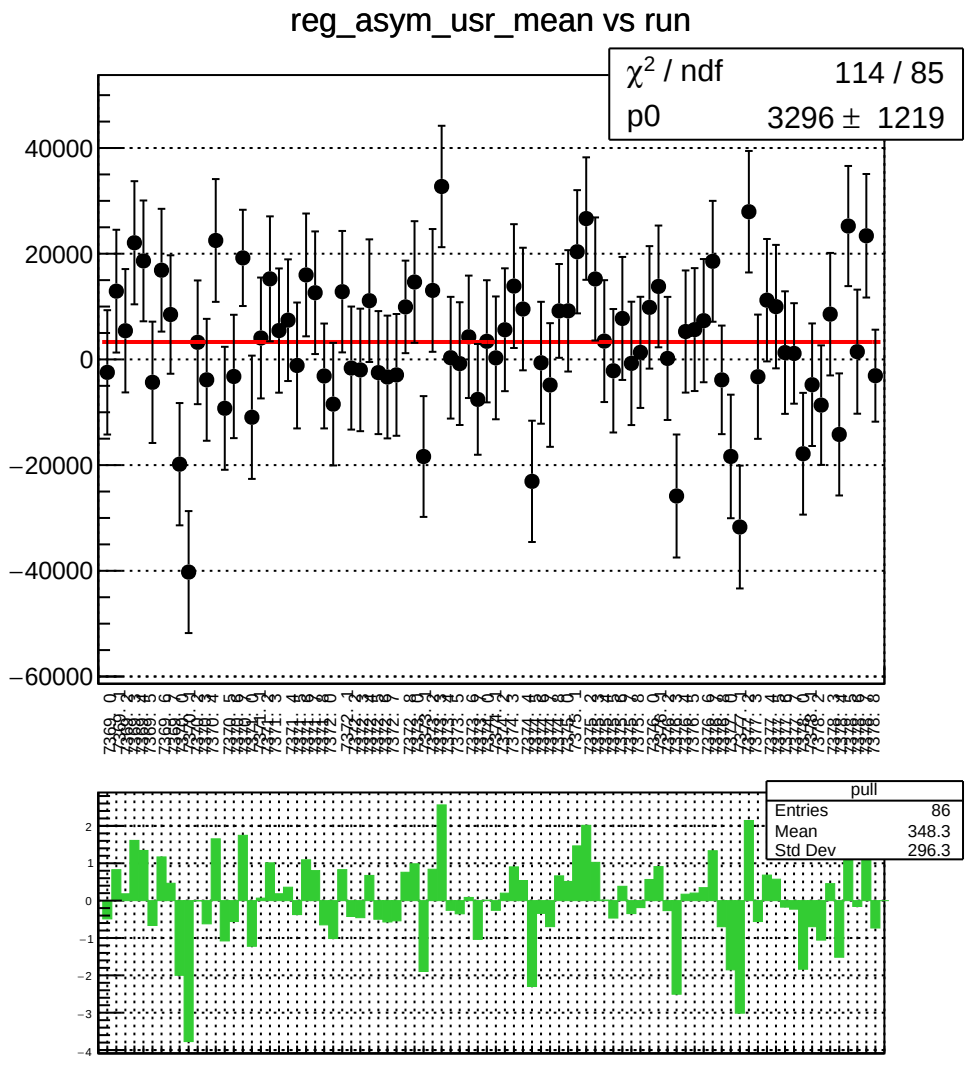

pull1D
Entries 86
Mean 0.01489
Std Dev 1.027

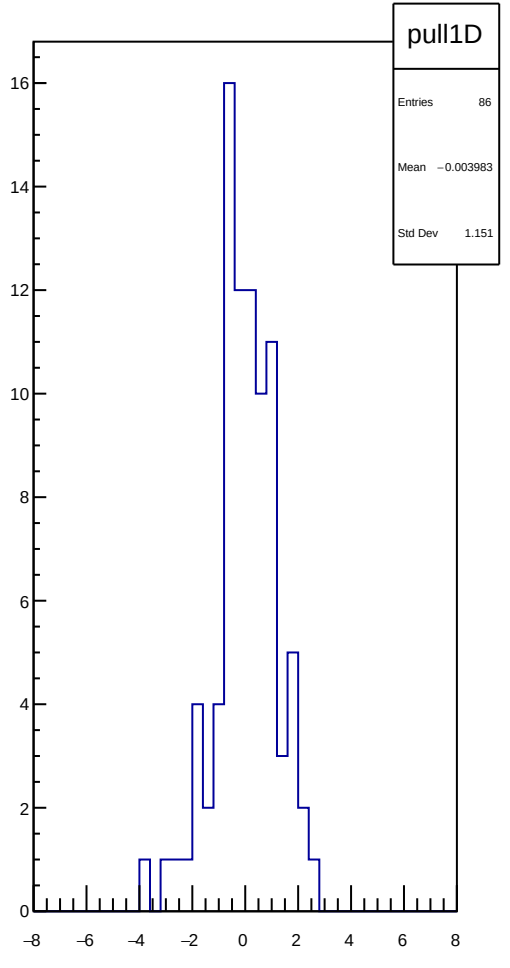

asym_usl_correction_rms vs run
χ² / ndf 2.661e+04 / 85
p0 1458 ± 1.152
1900
1800
1700
1600
1500
1400
1300
1200

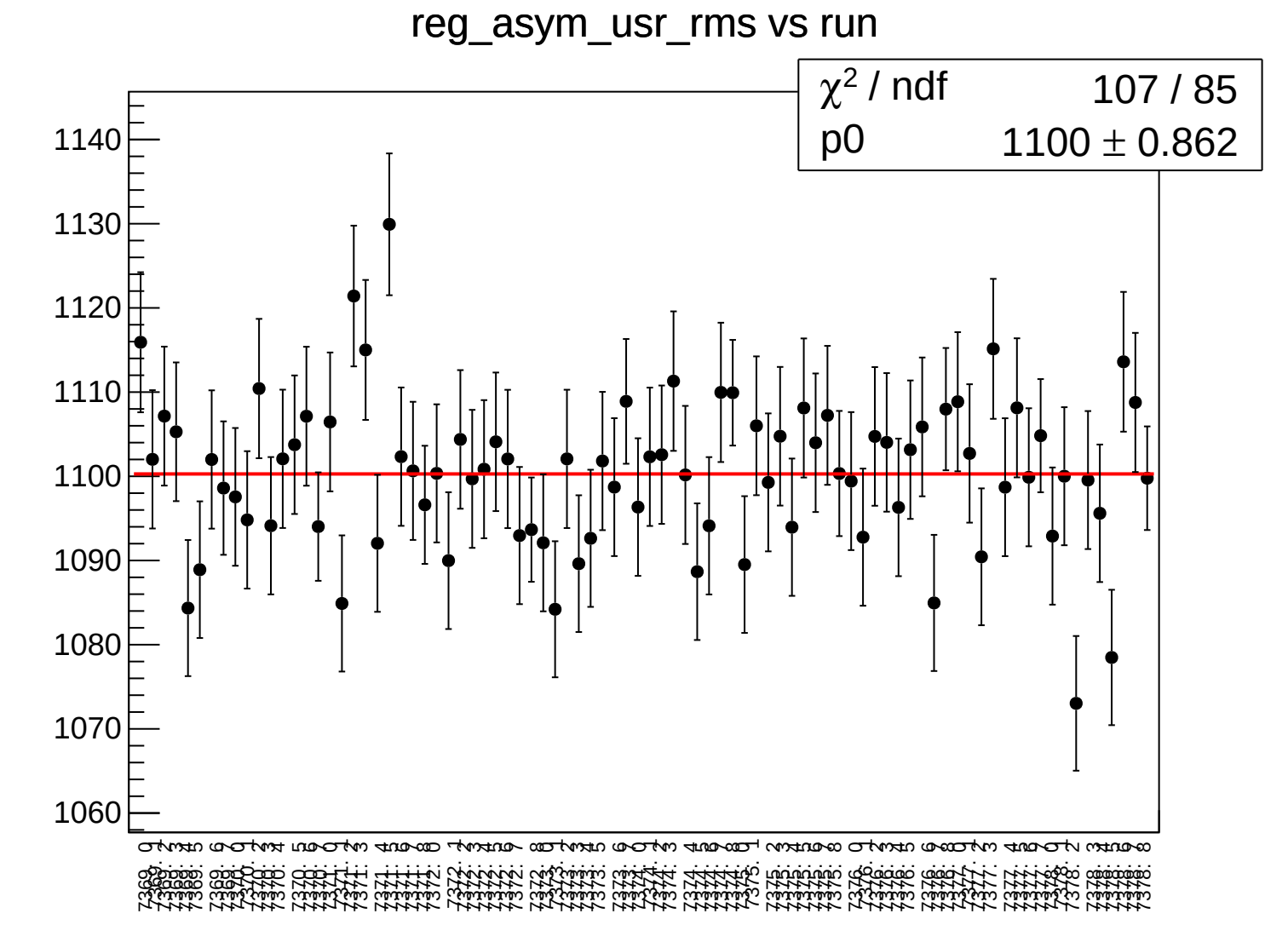

asym_usl_mean vs run
×10^3
χ² / ndf 101.5 / 85
p0 3889 ± 2061
pull
Entries 86
Mean −258
Std Dev 312.4

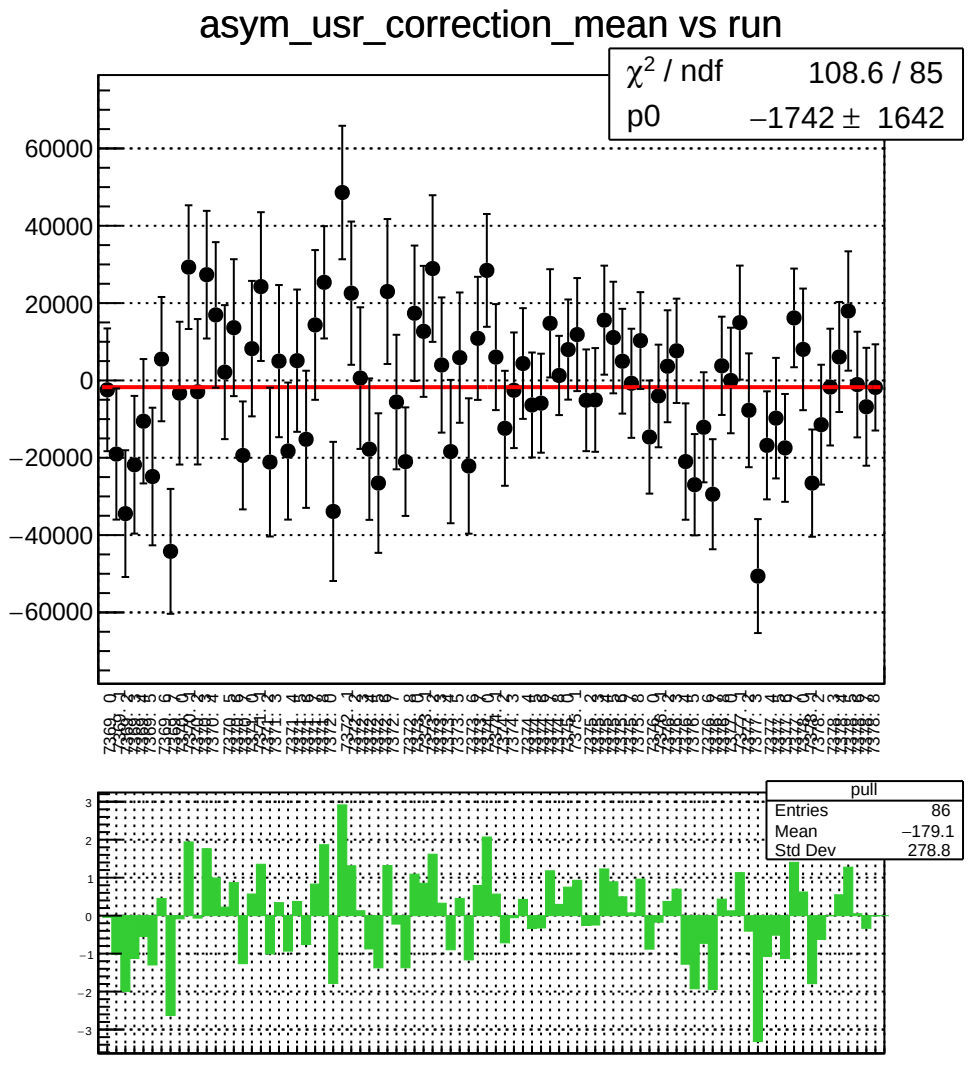

pull1D
Entries 86
Mean −0.0104
Std Dev 1.086

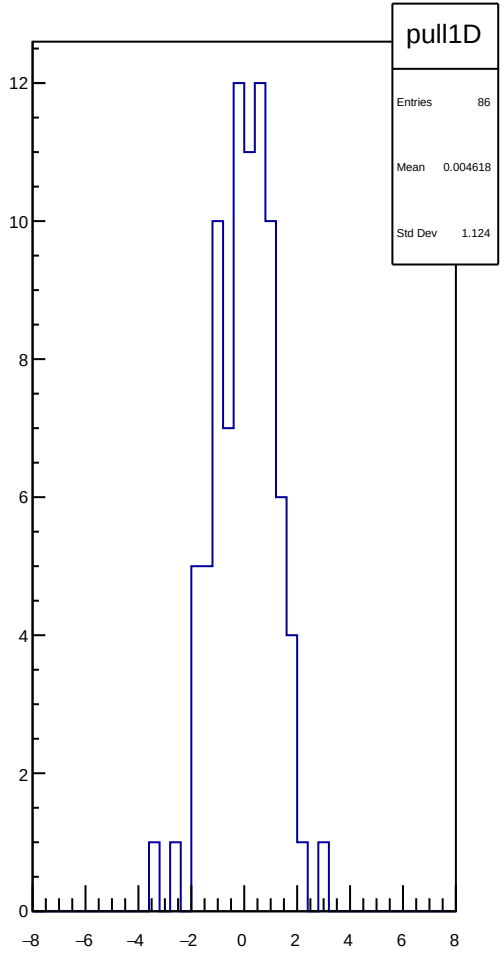

asym_usl_rms vs run
χ² / ndf 1.113e+04 / 85
p0 1854 ± 1.457
2200
2100
2000
1900
1800
1700
1600

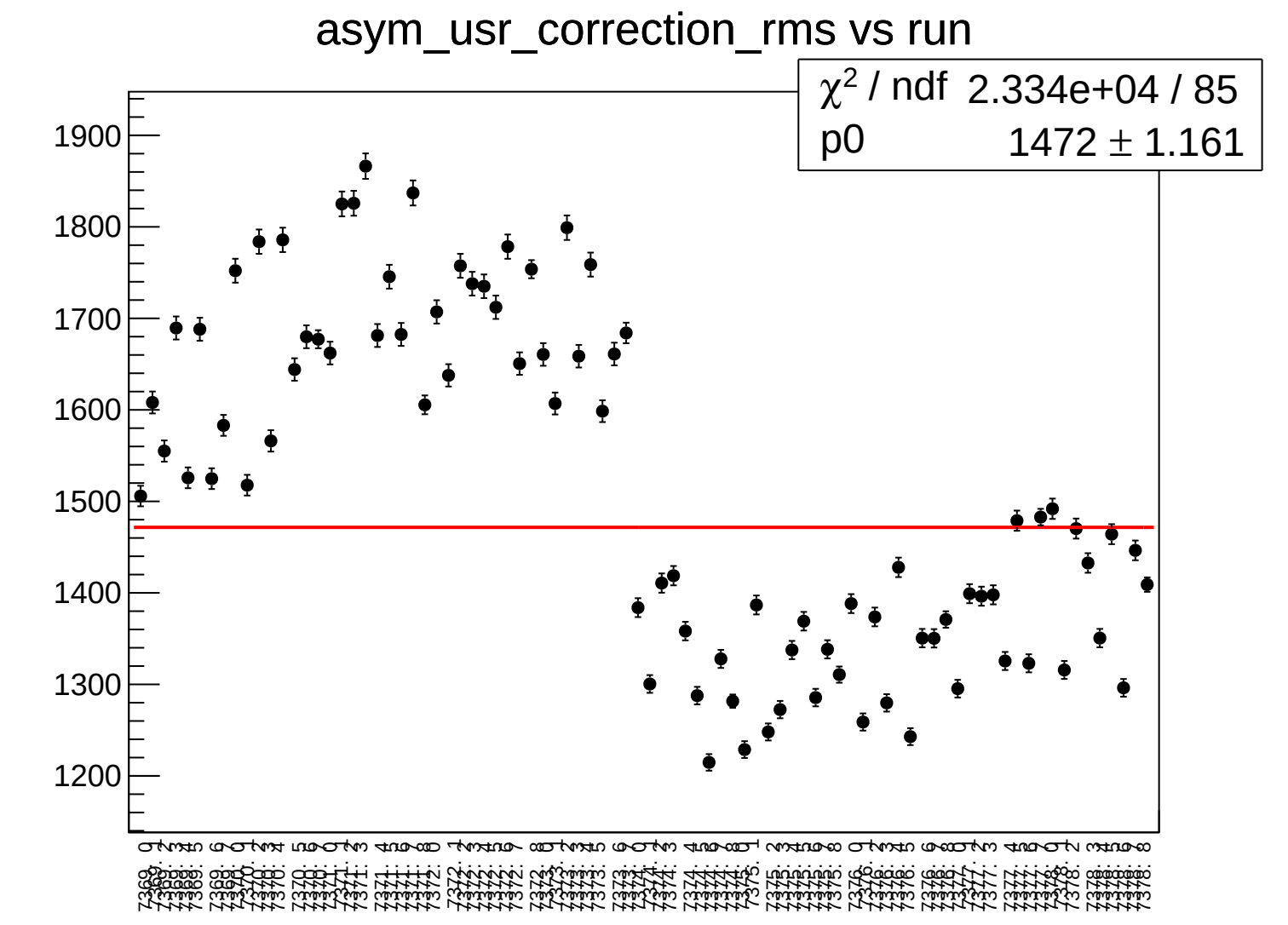

reg_asym_usr_mean vs run
χ² / ndf 114 / 85
p0 3296 ± 1219
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 348.3
Std Dev 296.3
2
1
0
−1
−2
−3
−4

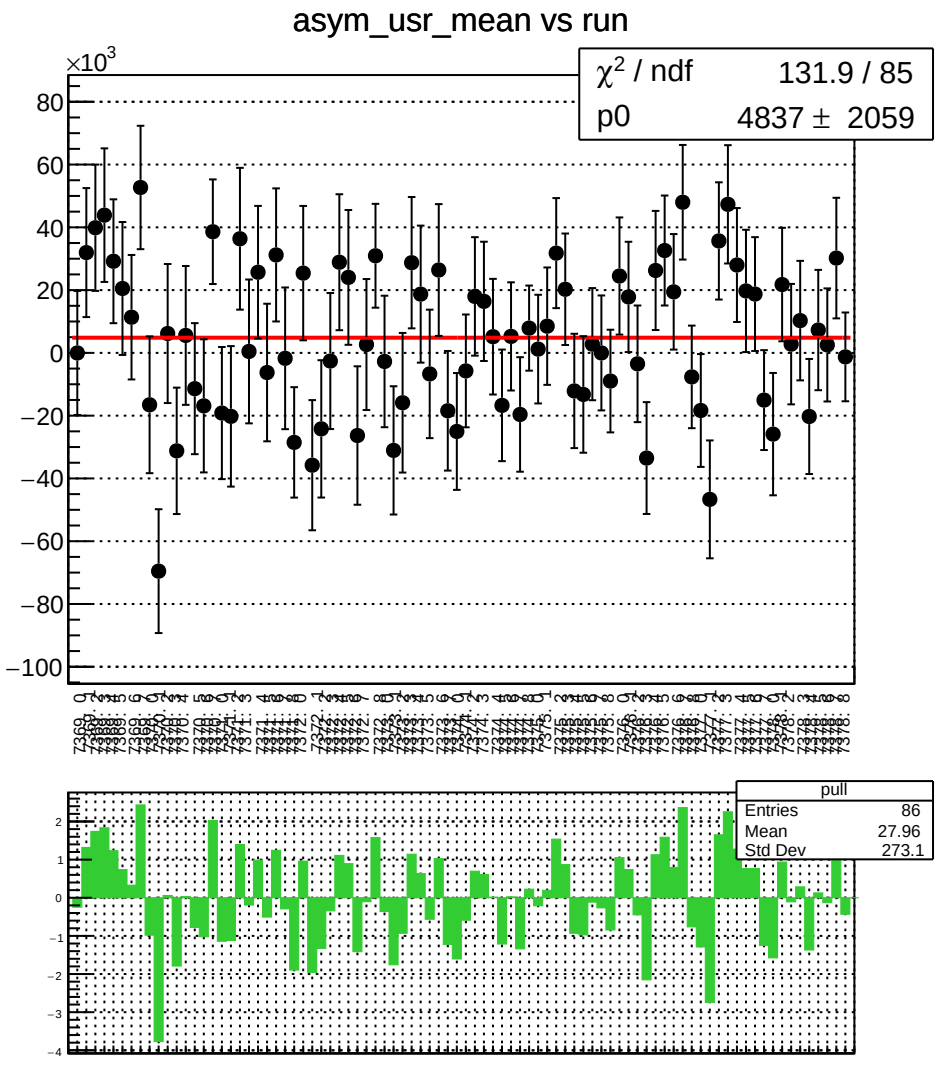

pull1D
Entries 86
Mean −0.003983
Std Dev 1.151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

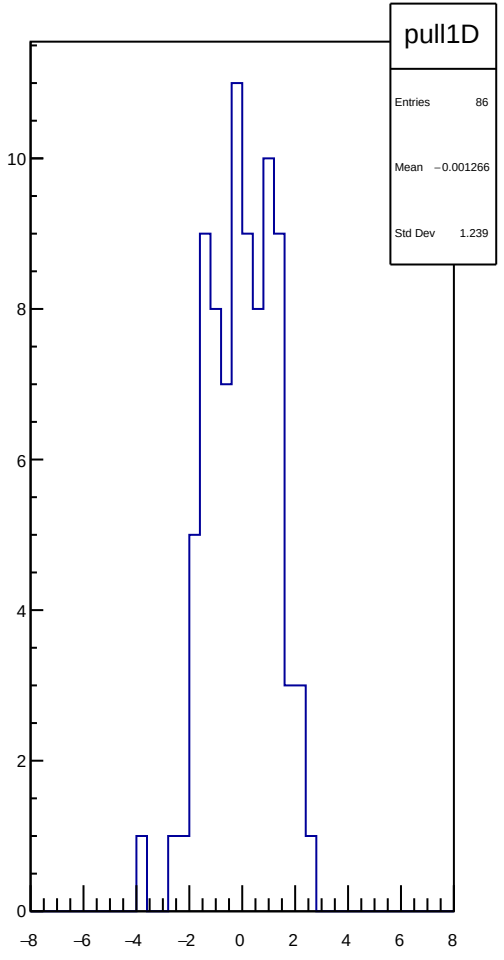

reg_asym_usr_rms vs run
χ² / ndf 107 / 85
p0 1100 ± 0.862
1140
1130
1120
1110
1100
1090
1080
1070
1060

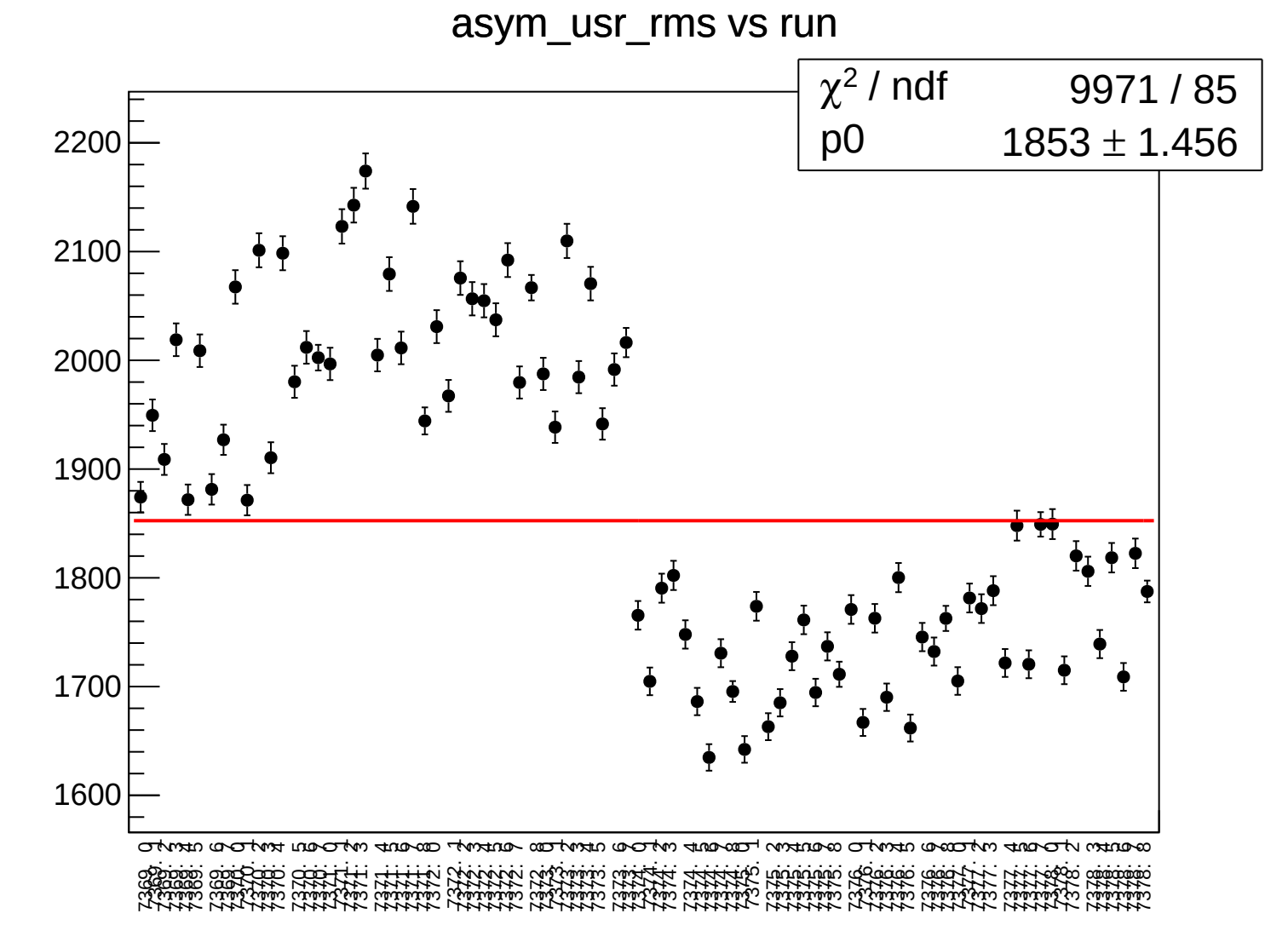

asym_usr_correction_mean vs run
χ² / ndf 108.6 / 85
p0 −1742 ± 1642
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −179.1
Std Dev 278.8
3
2
1
0
−1
−2
−3

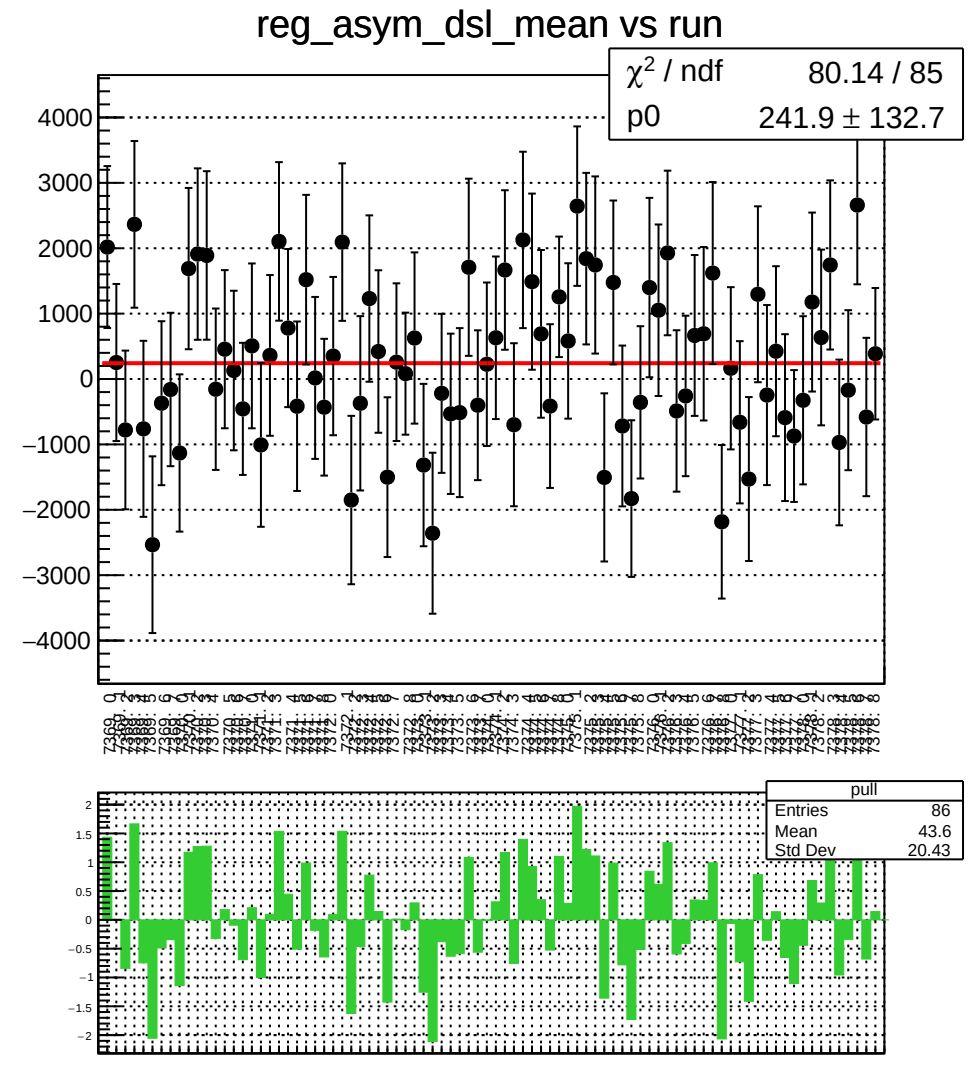

pull1D
Entries 86
Mean 0.004618
Std Dev 1.124
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

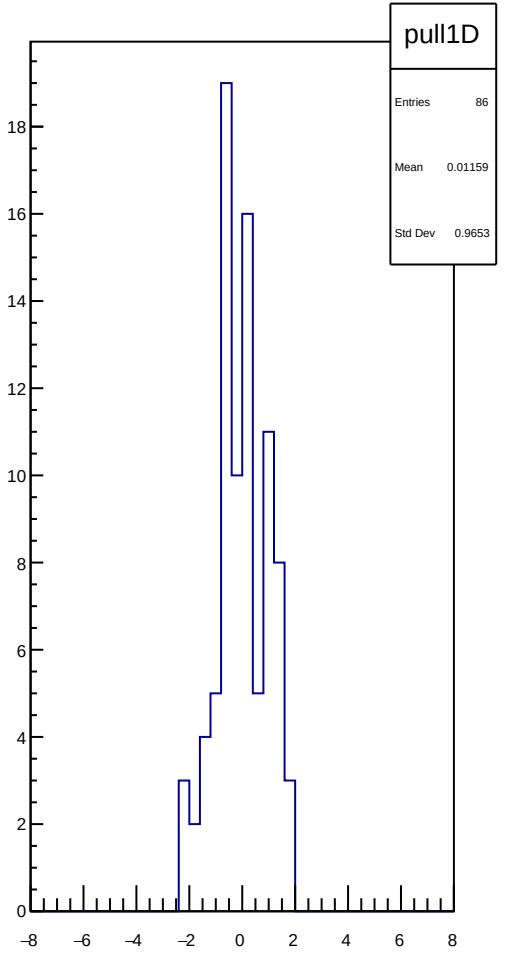

asym_usr_correction_rms vs run
χ² / ndf 2.334e+04 / 85
p0 1472 ± 1.161
1900
1800
1700
1600
1500
1400
1300
1200

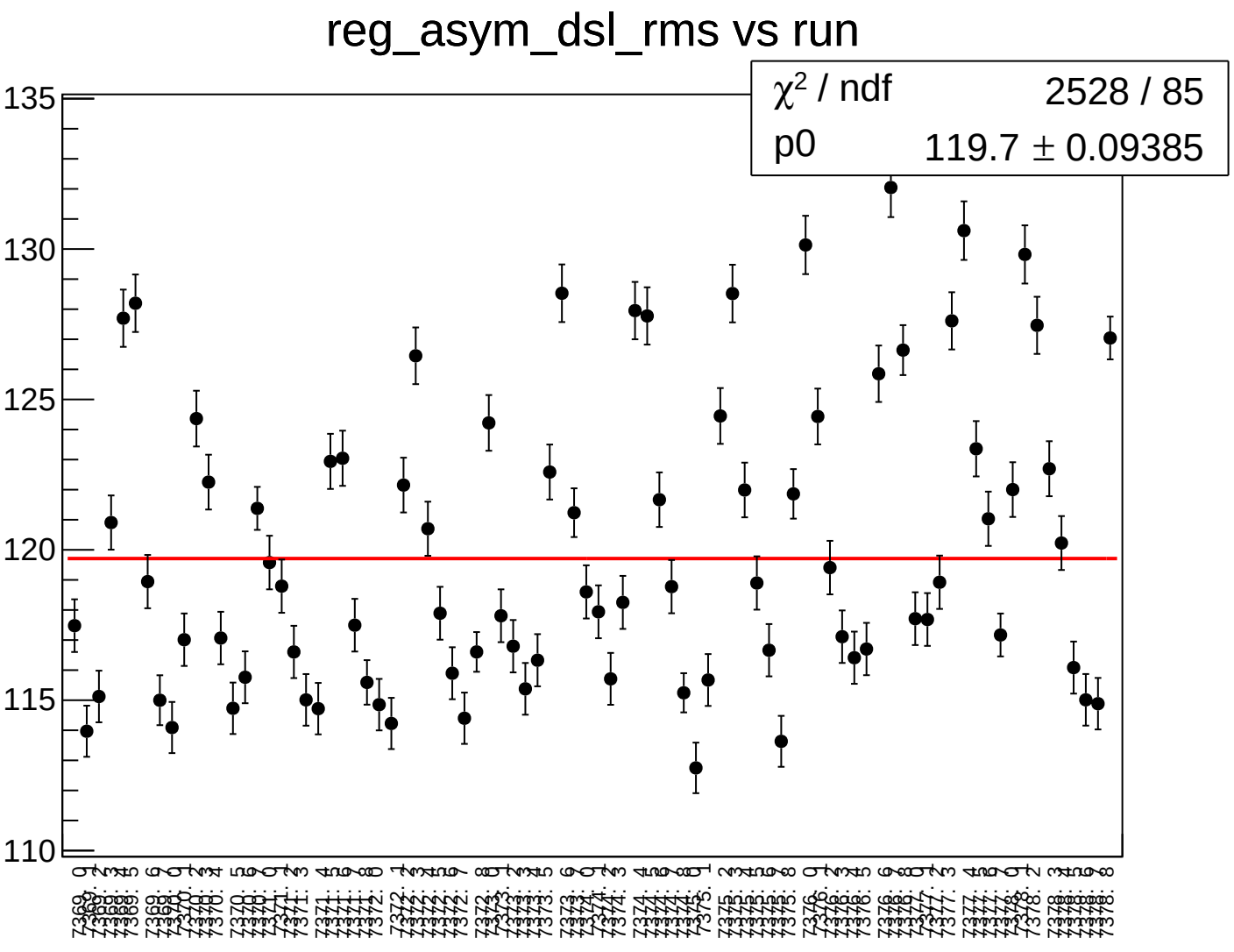

asym_usr_mean vs run
χ^2 / ndf 131.9 / 85
p0 4837 ± 2059
×10^3
pull
Entries 86
Mean 27.96
Std Dev 273.1

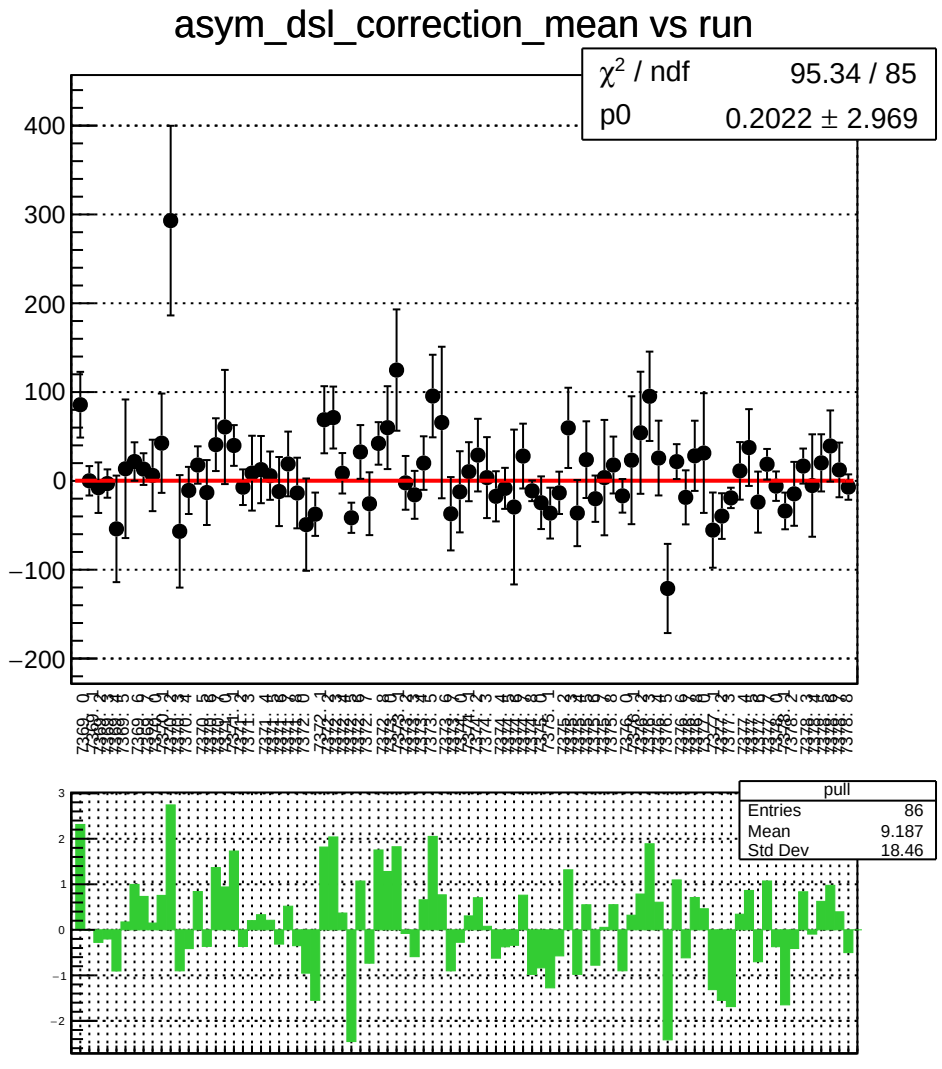

pull1D
Entries 86
Mean −0.001266
Std Dev 1.239

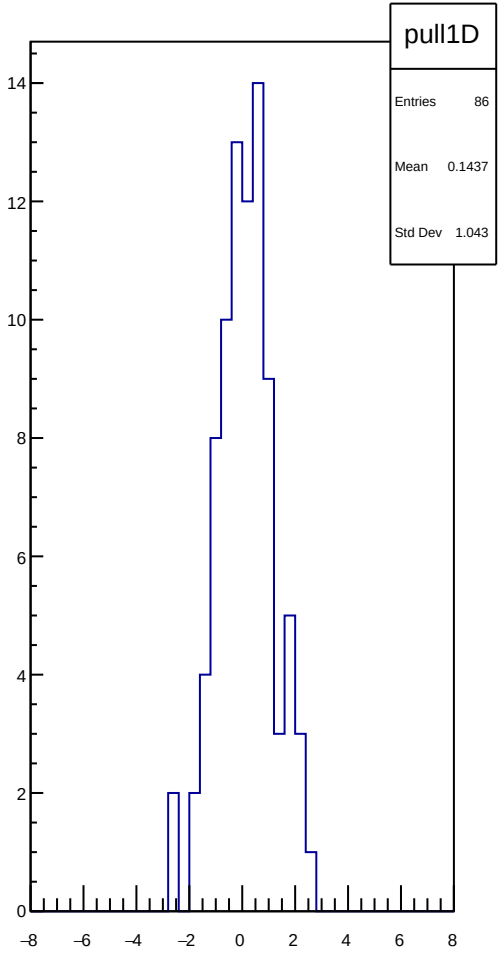

asym_usr_rms vs run
χ² / ndf 9971 / 85
p0 1853 ± 1.456
2200
2100
2000
1900
1800
1700
1600

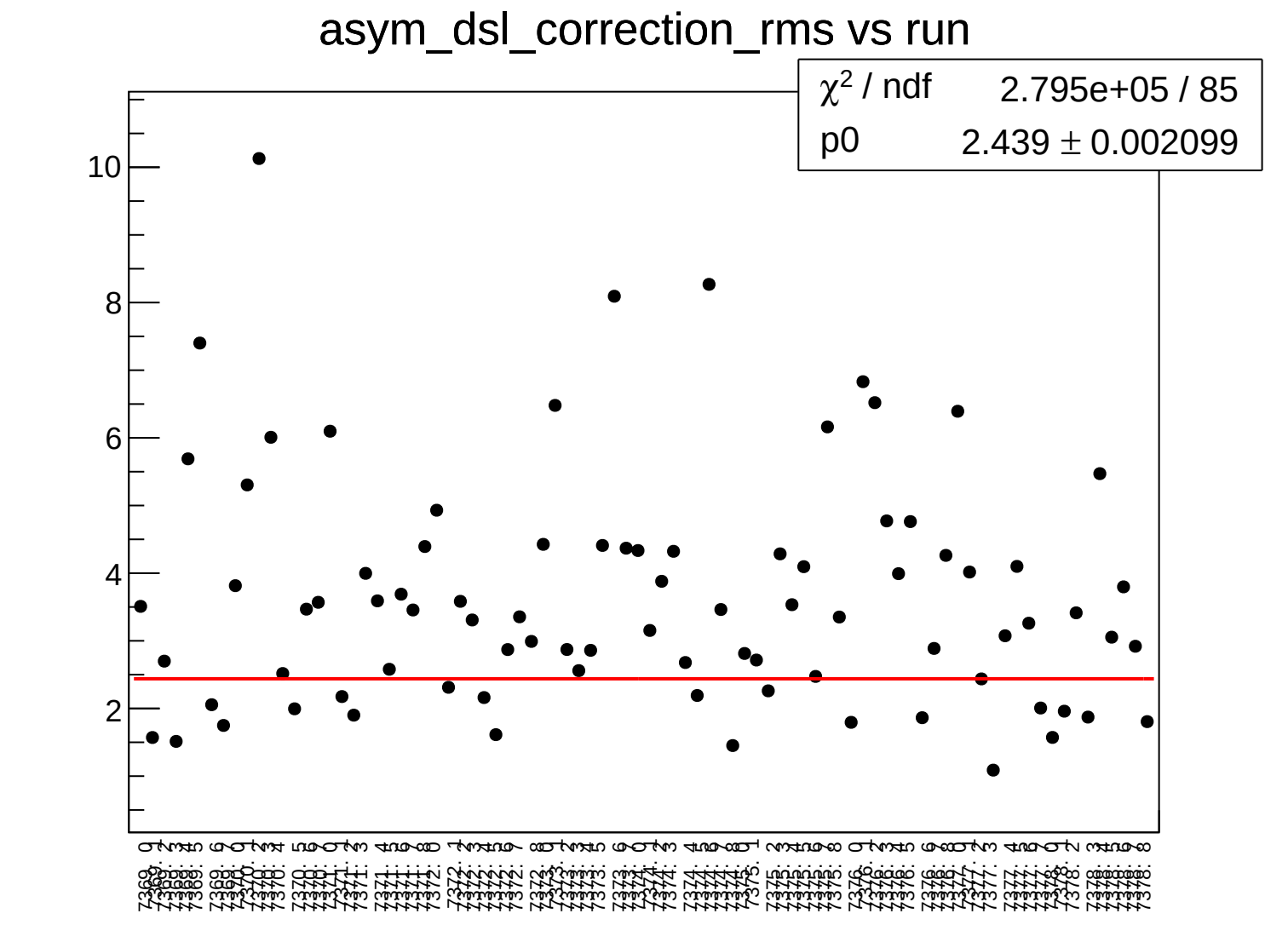

reg_asym_dsl_mean vs run
χ^2 / ndf 80.14 / 85
p0 241.9 ± 132.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 86
Mean 43.6
Std Dev 20.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

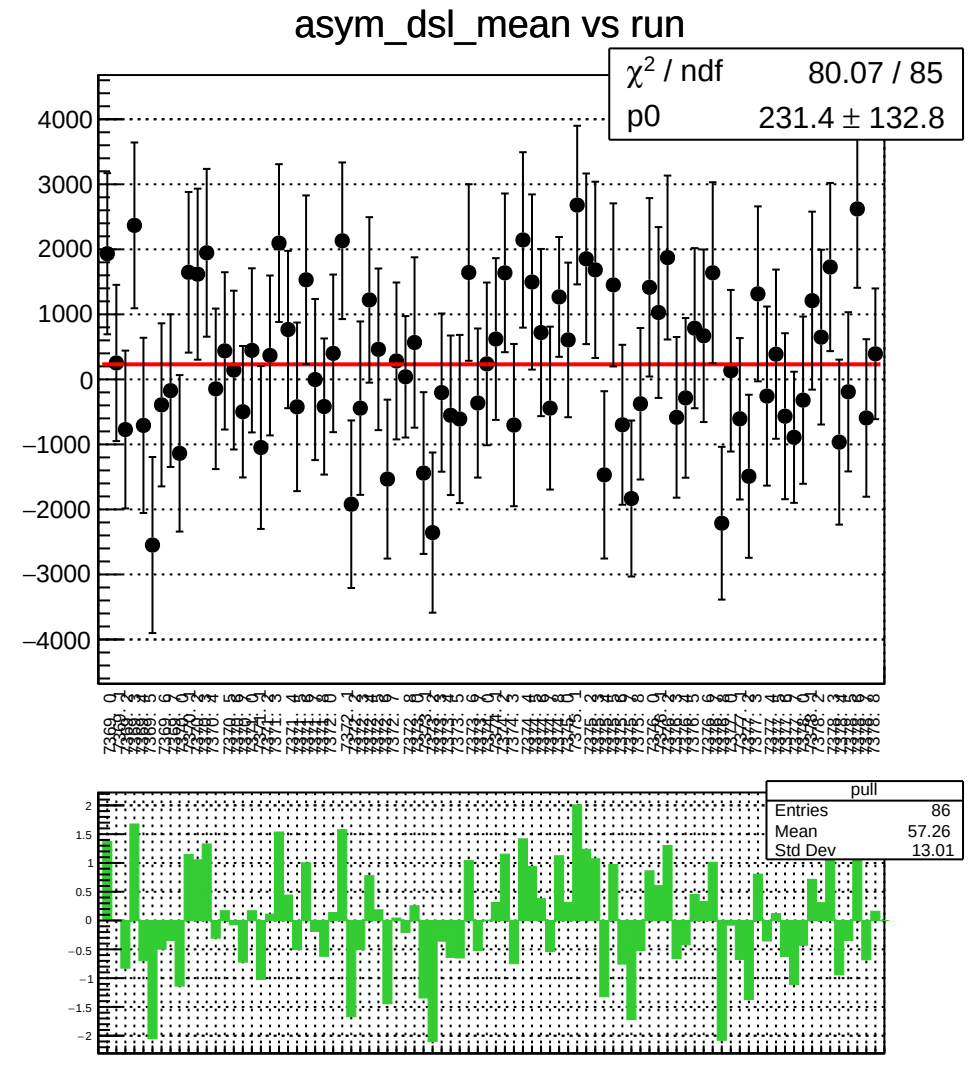

pull1D
Entries 86
Mean 0.01159
Std Dev 0.9653
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

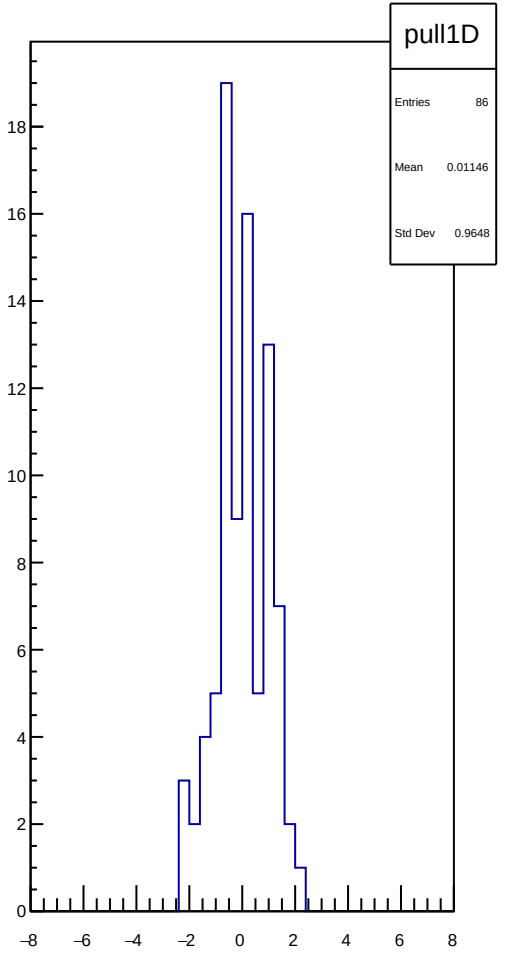

reg_asym_dsl_rms vs run
χ^2 / ndf 2528 / 85
p0 119.7 ± 0.09385
135
130
125
120
115
110

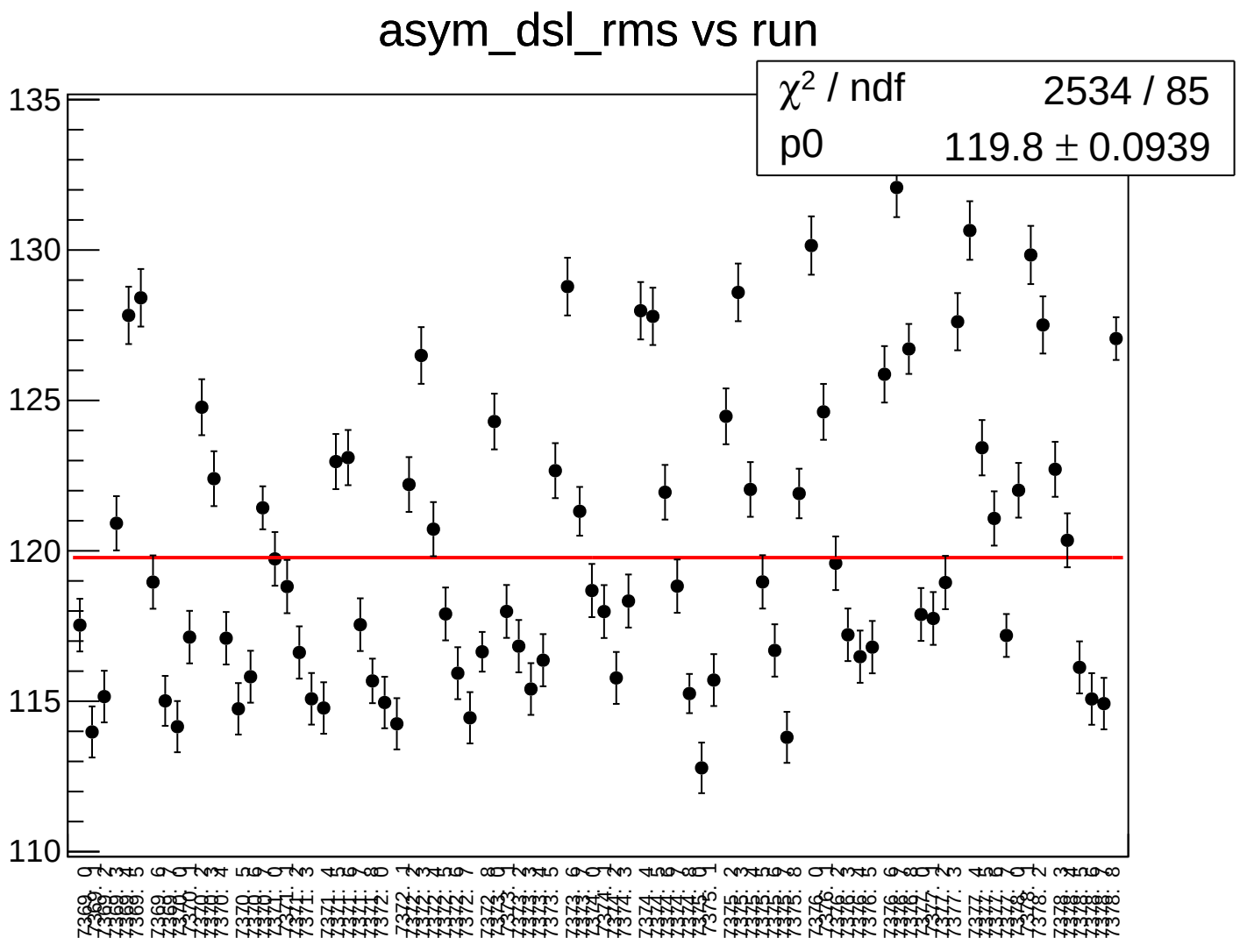

asym_dsl_correction_mean vs run
χ² / ndf 95.34 / 85
p0 0.2022 ± 2.969
pull
Entries 86
Mean 9.187
Std Dev 18.46

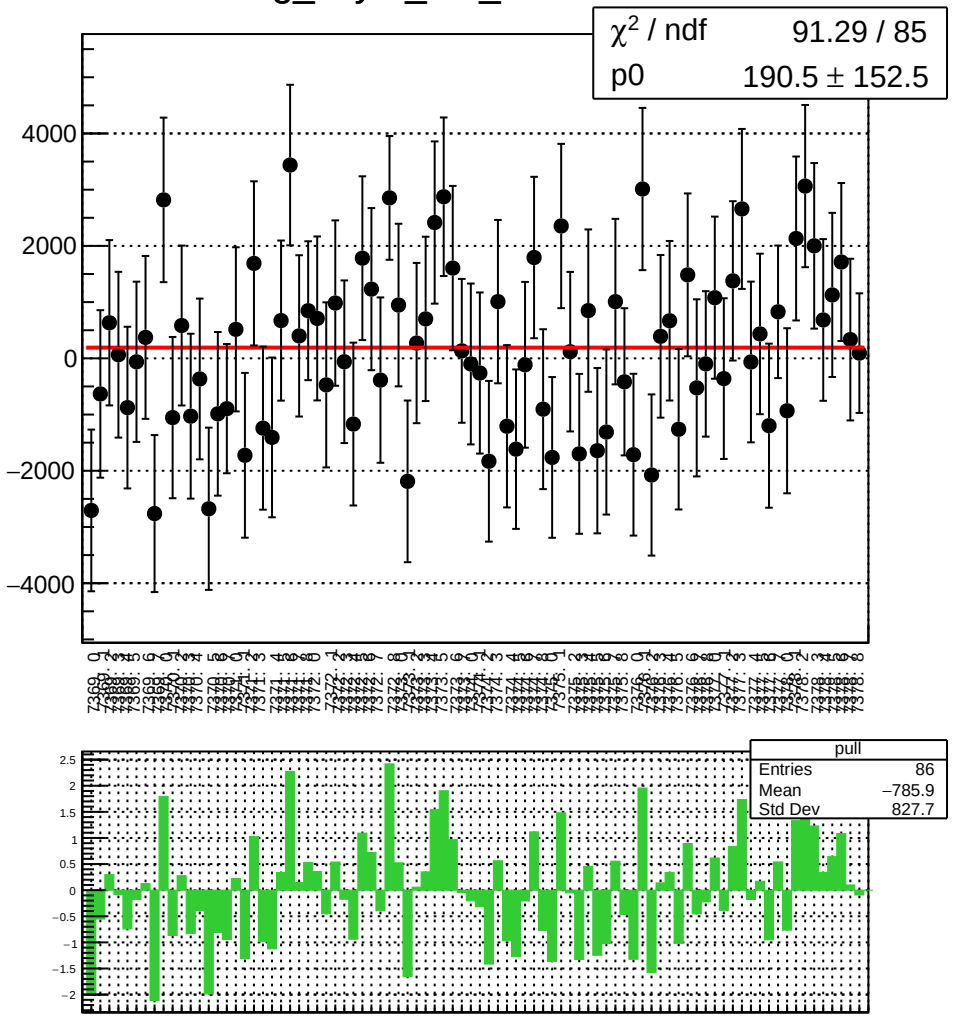

pull1D
Entries 86
Mean 0.1437
Std Dev 1.043

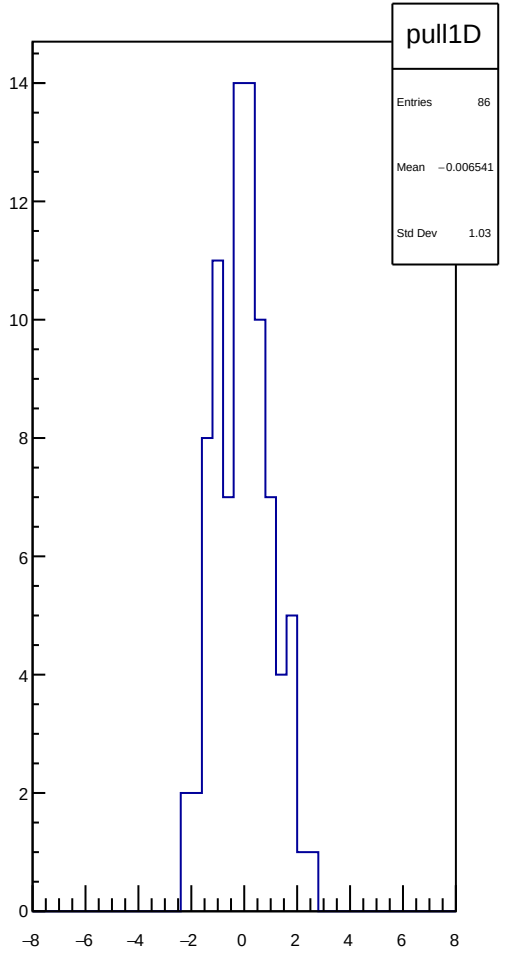

asym_dsl_correction_rms vs run
χ^2 / ndf 2.795e+05 / 85
p0 2.439 ± 0.002099
10
8
6
4
2

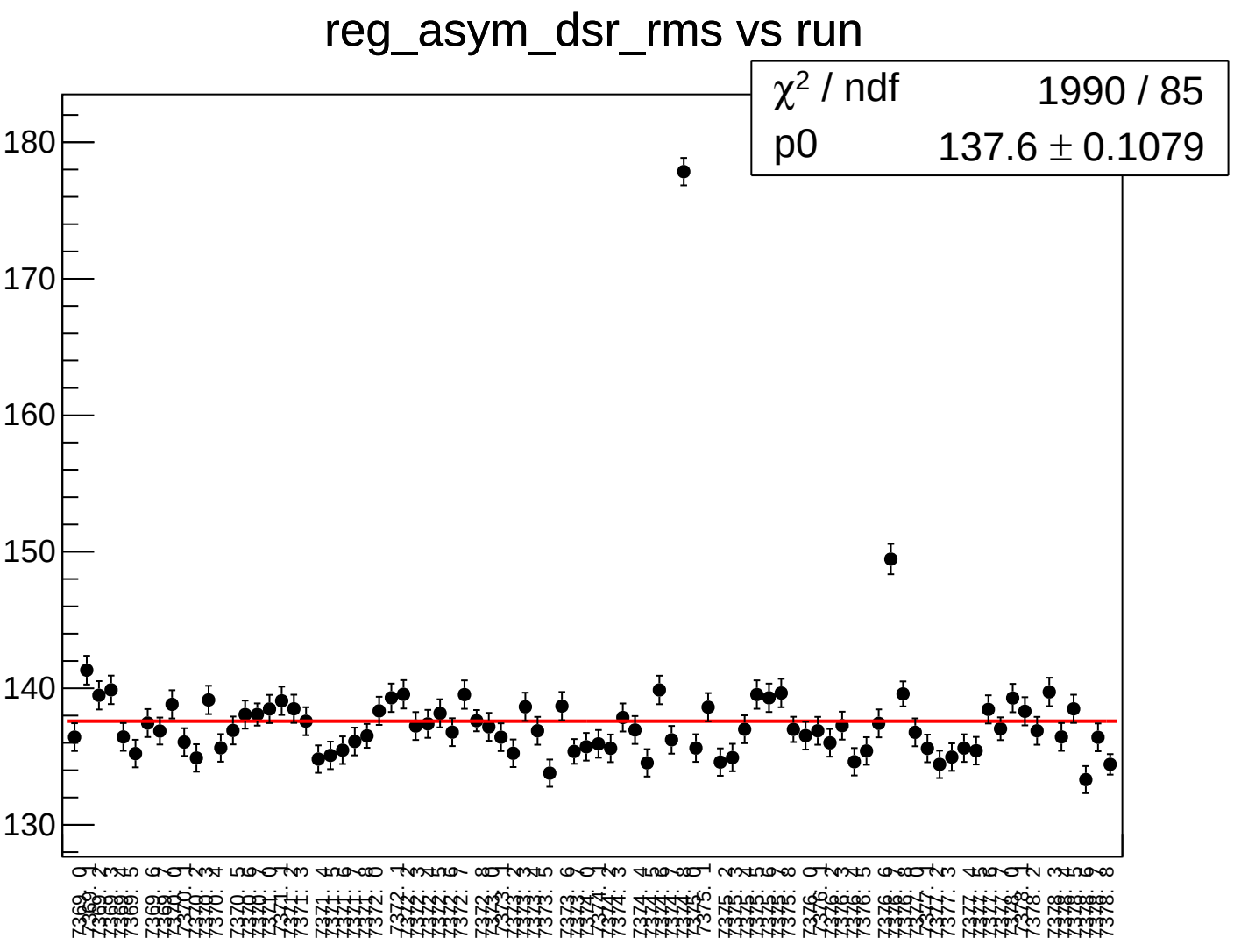

asym_dsl_mean vs run
χ^2 / ndf 80.07 / 85
p0 231.4 ± 132.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 86
Mean 57.26
Std Dev 13.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

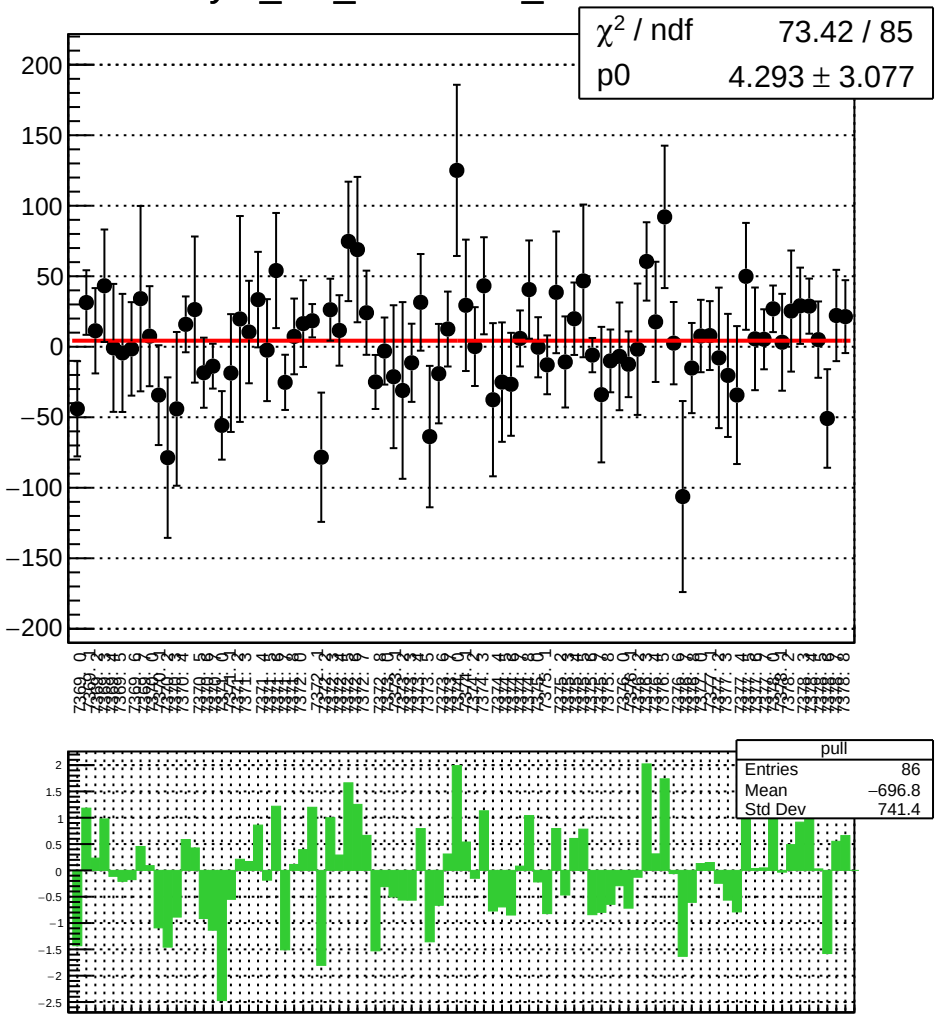

pull1D
Entries 86
Mean 0.01146
Std Dev 0.9648
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

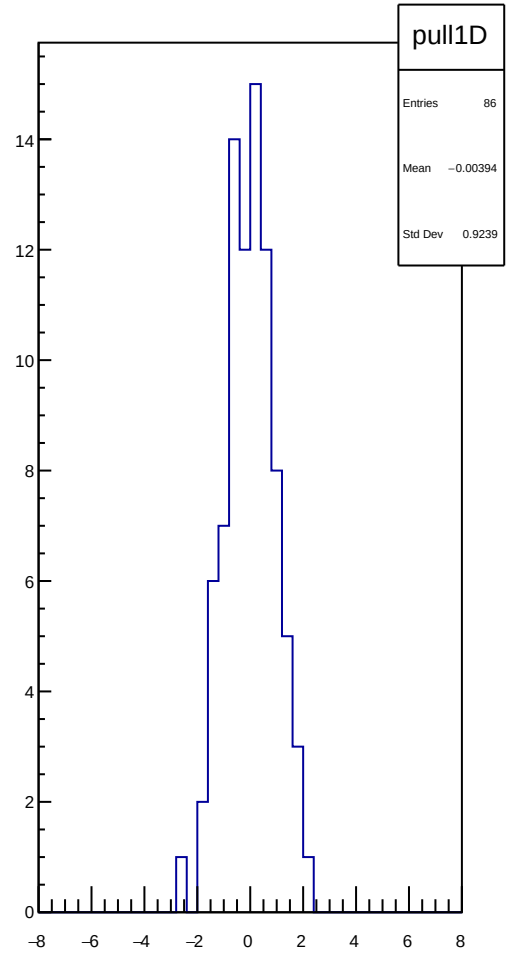

asym_dsl_rms vs run
χ^2 / ndf 2534 / 85
p0 119.8 ± 0.0939
135
130
125
120
115
110

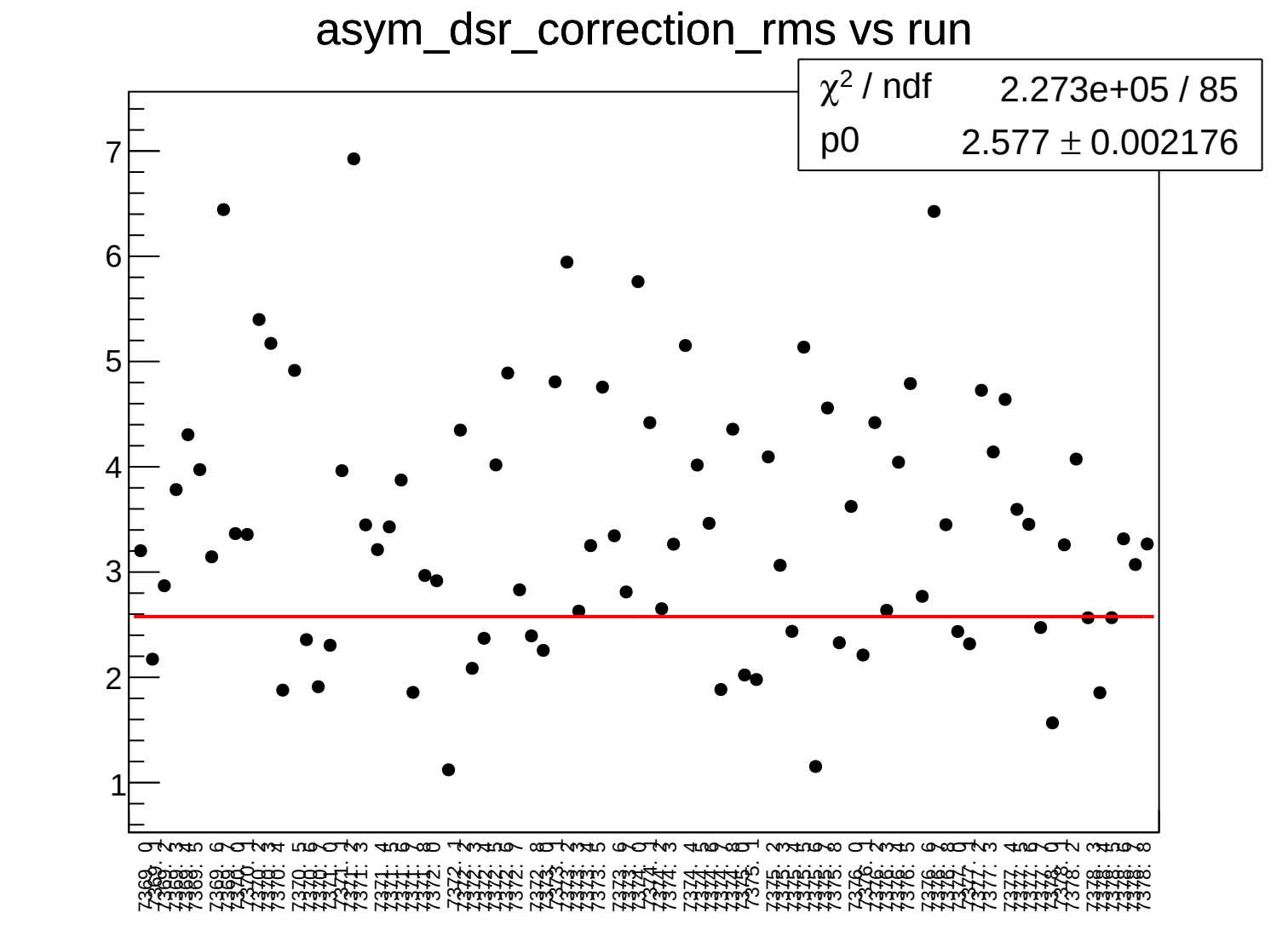

reg_asym_dsr_mean vs run
χ^2 / ndf 91.29 / 85
p0 190.5 ± 152.5
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −785.9
Std Dev 827.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

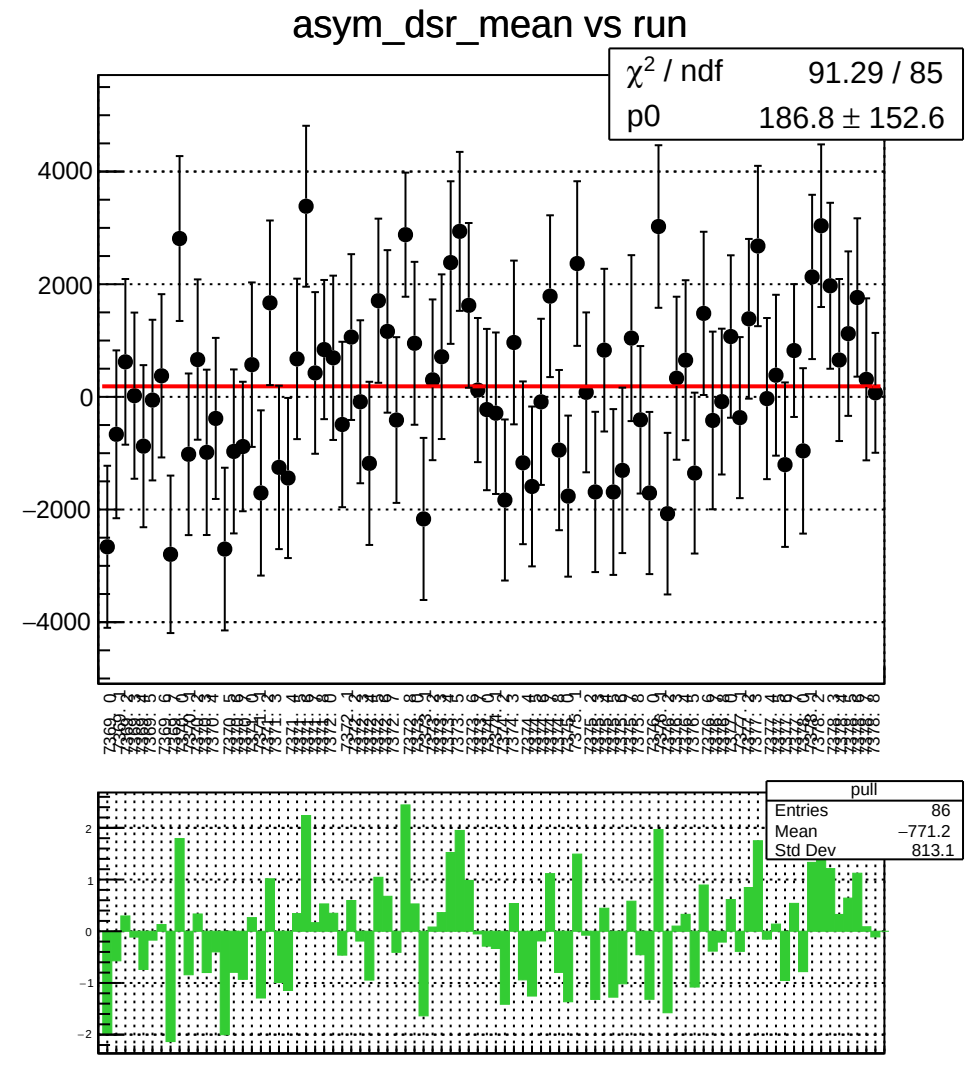

pull1D
Entries 86
Mean −0.006541
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

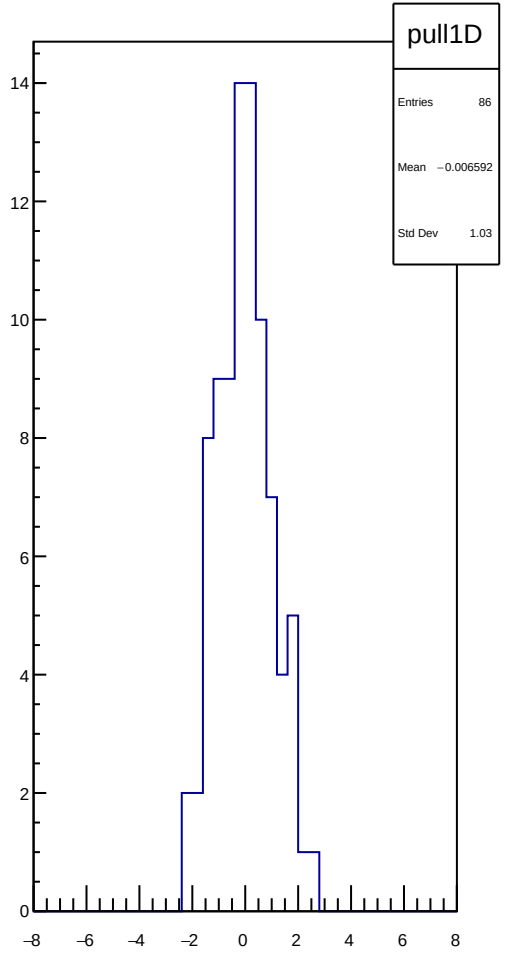

reg_asym_dsr_rms vs run
χ^2 / ndf 1990 / 85
p0 137.6 ± 0.1079
180
170
160
150
140
130

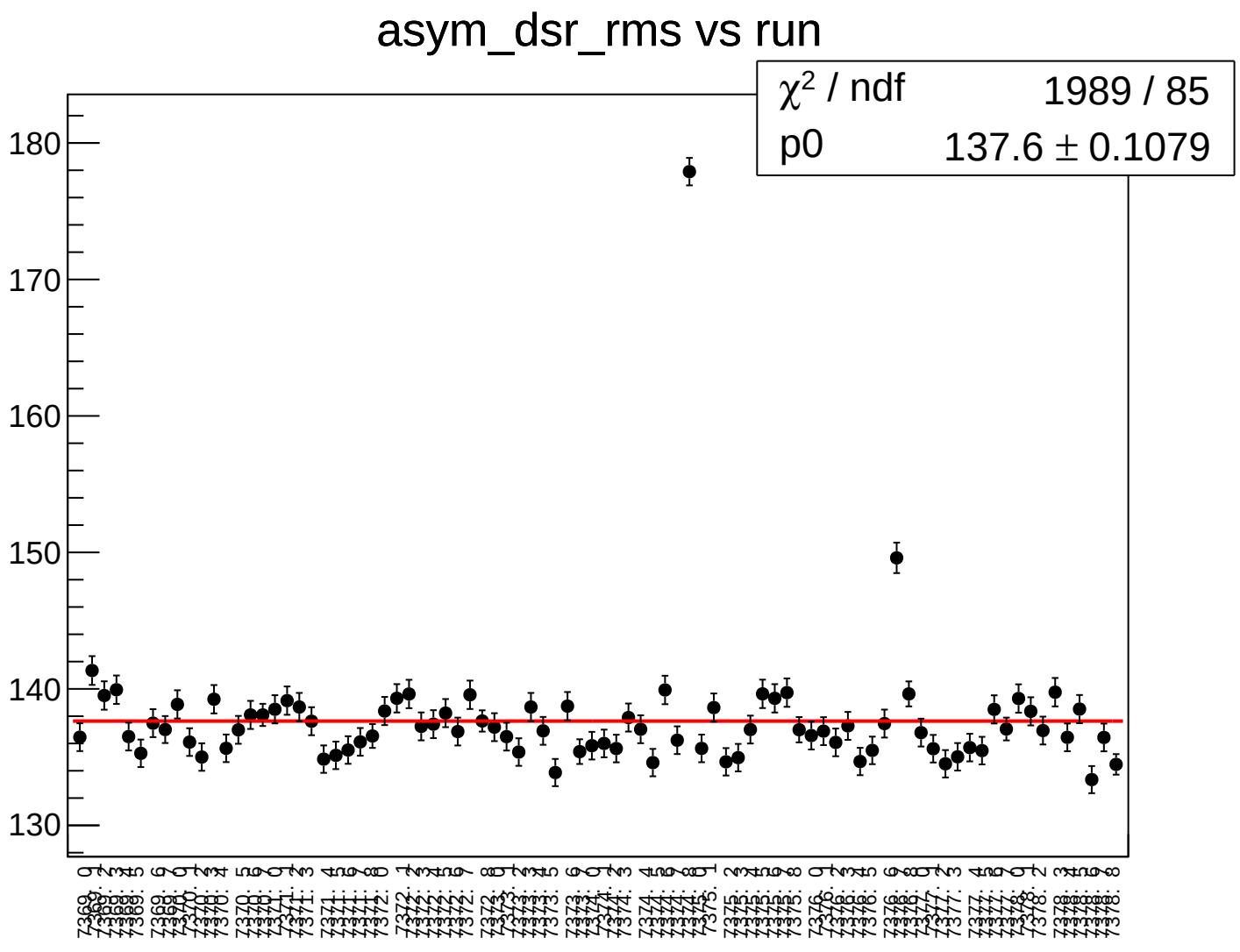

asym_dsr_correction_mean vs run
χ² / ndf 73.42 / 85
p0 4.293 ± 3.077
pull
Entries 86
Mean −696.8
Std Dev 741.4

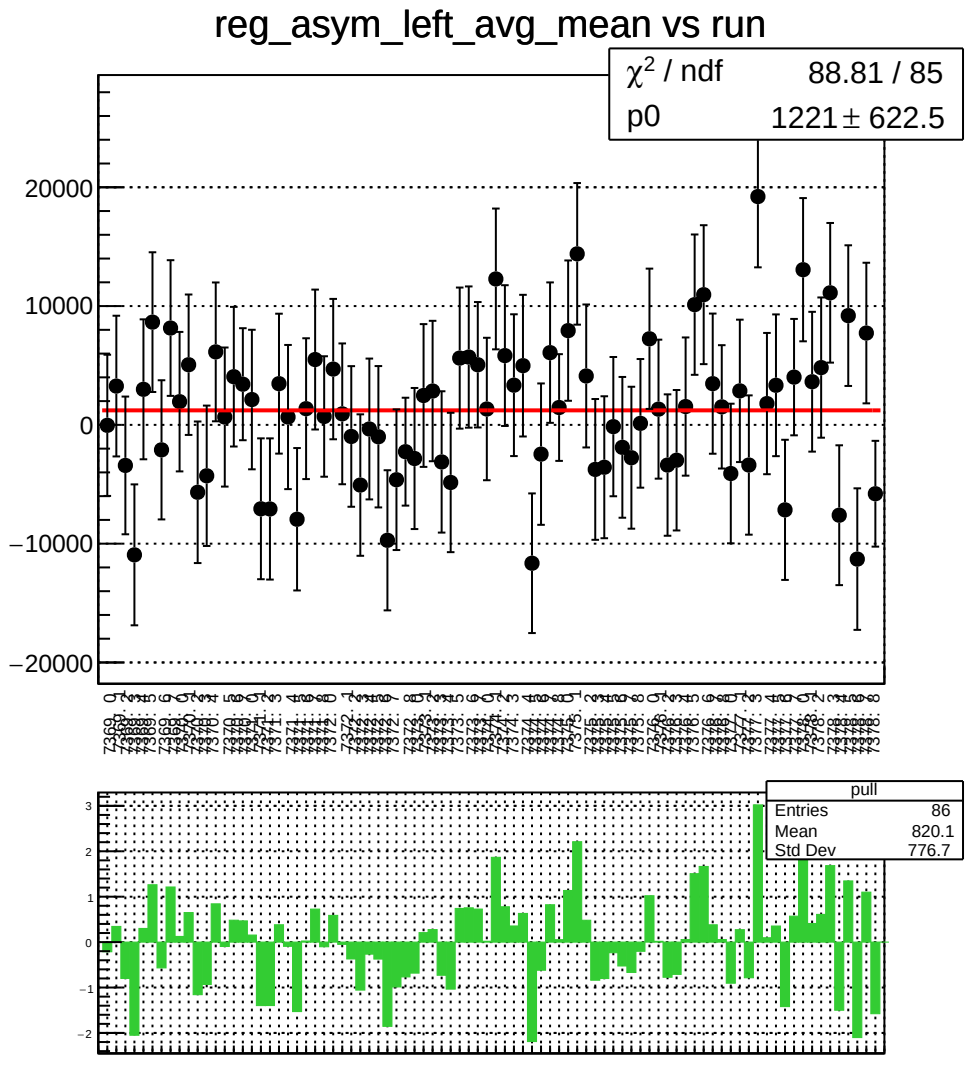

pull1D
Entries 86
Mean −0.00394
Std Dev 0.9239

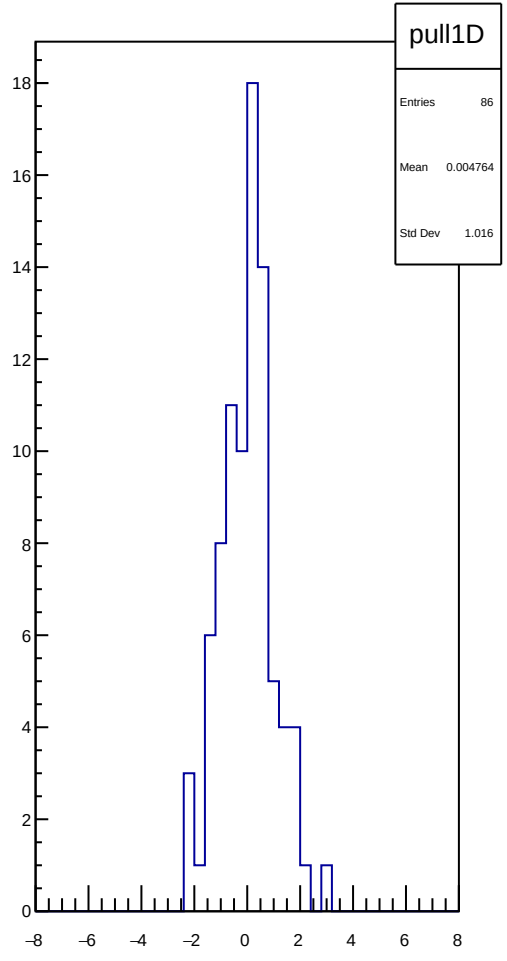

asym_dsr_correction_rms vs run
χ^2 / ndf 2.273e+05 / 85
p0 2.577 ± 0.002176
7
6
5
4
3
2
1

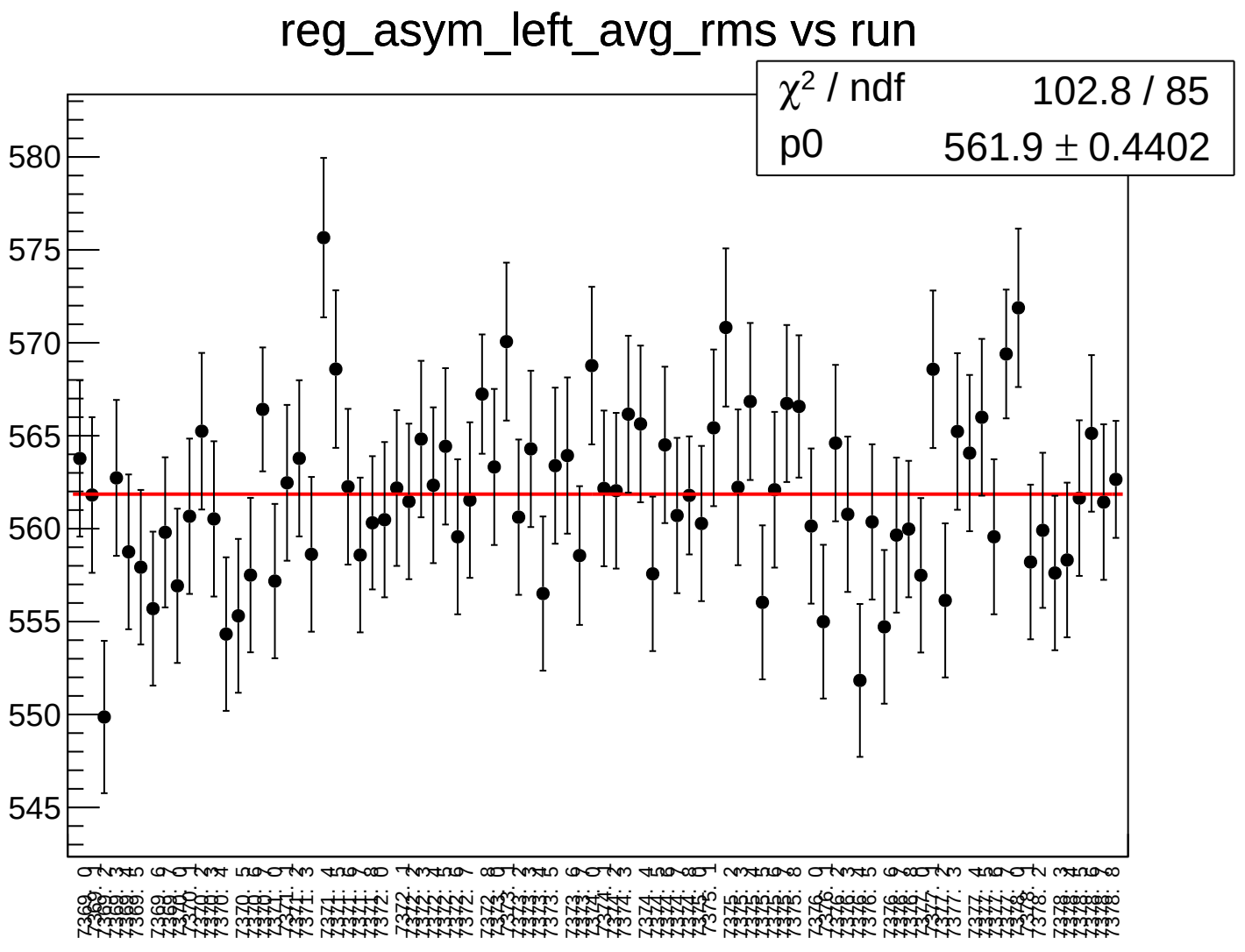

asym_dsr_mean vs run
χ^2 / ndf 91.29 / 85
p0 186.8 ± 152.6
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −771.2
Std Dev 813.1
2
1
0
−1
−2

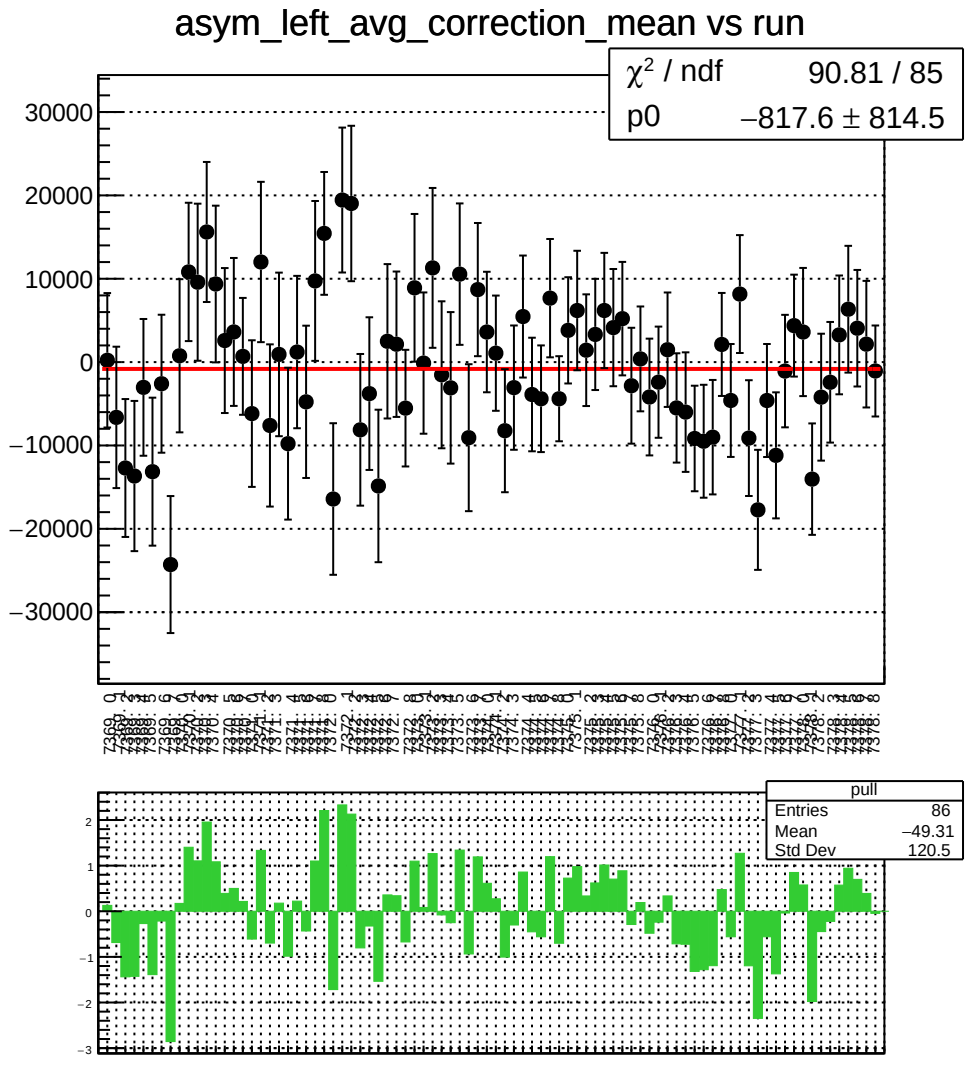

pull1D
Entries 86
Mean −0.006592
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

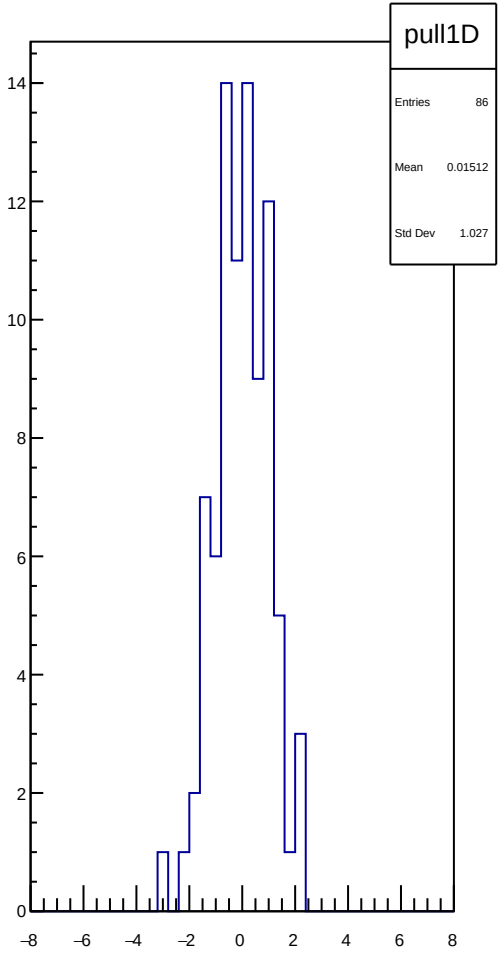

asym_dsr_rms vs run
χ^2 / ndf 1989 / 85
p0 137.6 ± 0.1079
180
170
160
150
140
130

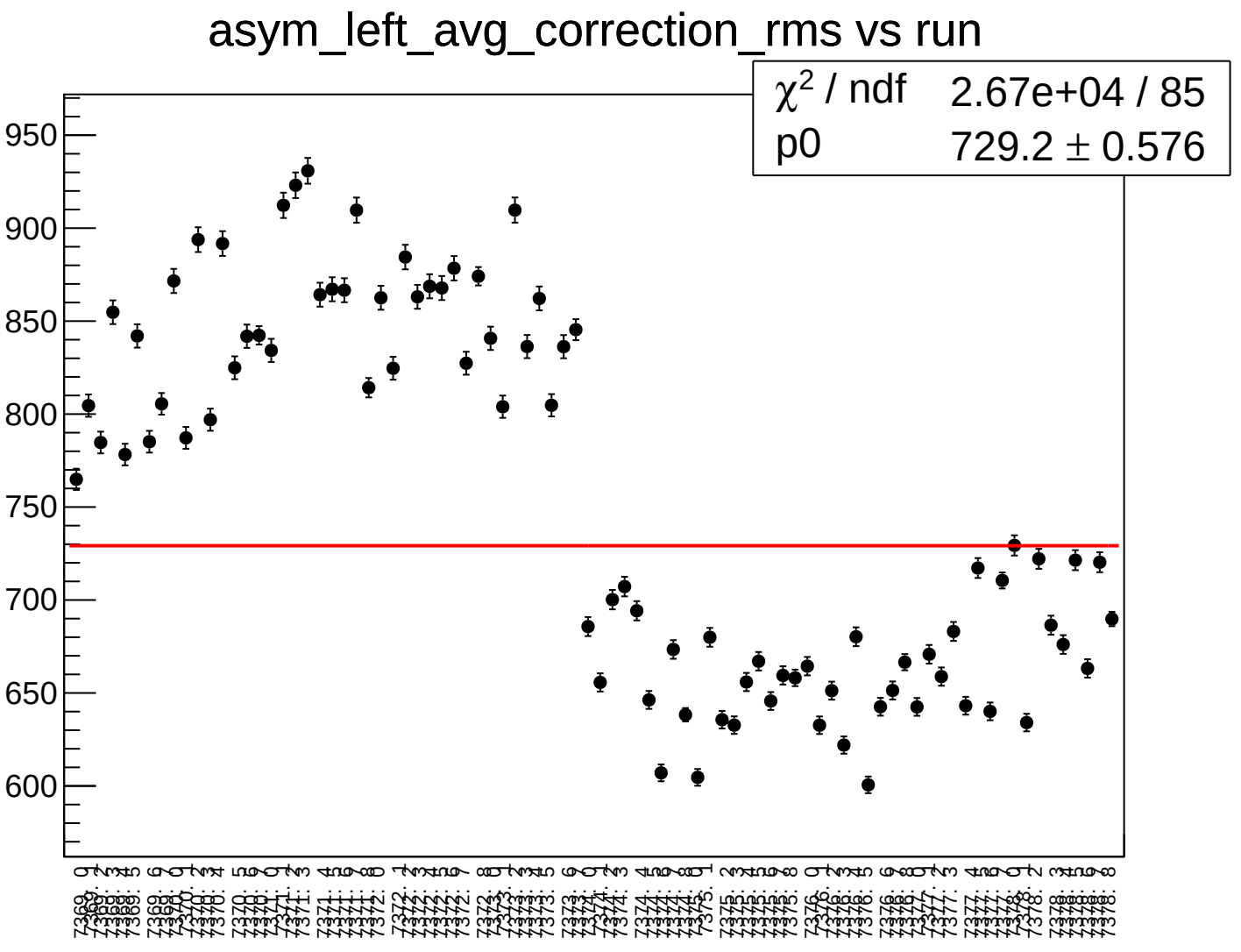

reg_asym_left_avg_mean vs run
χ² / ndf 88.81 / 85
p0 1221 ± 622.5
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 820.1
Std Dev 776.7
3
2
1
0
−1
−2

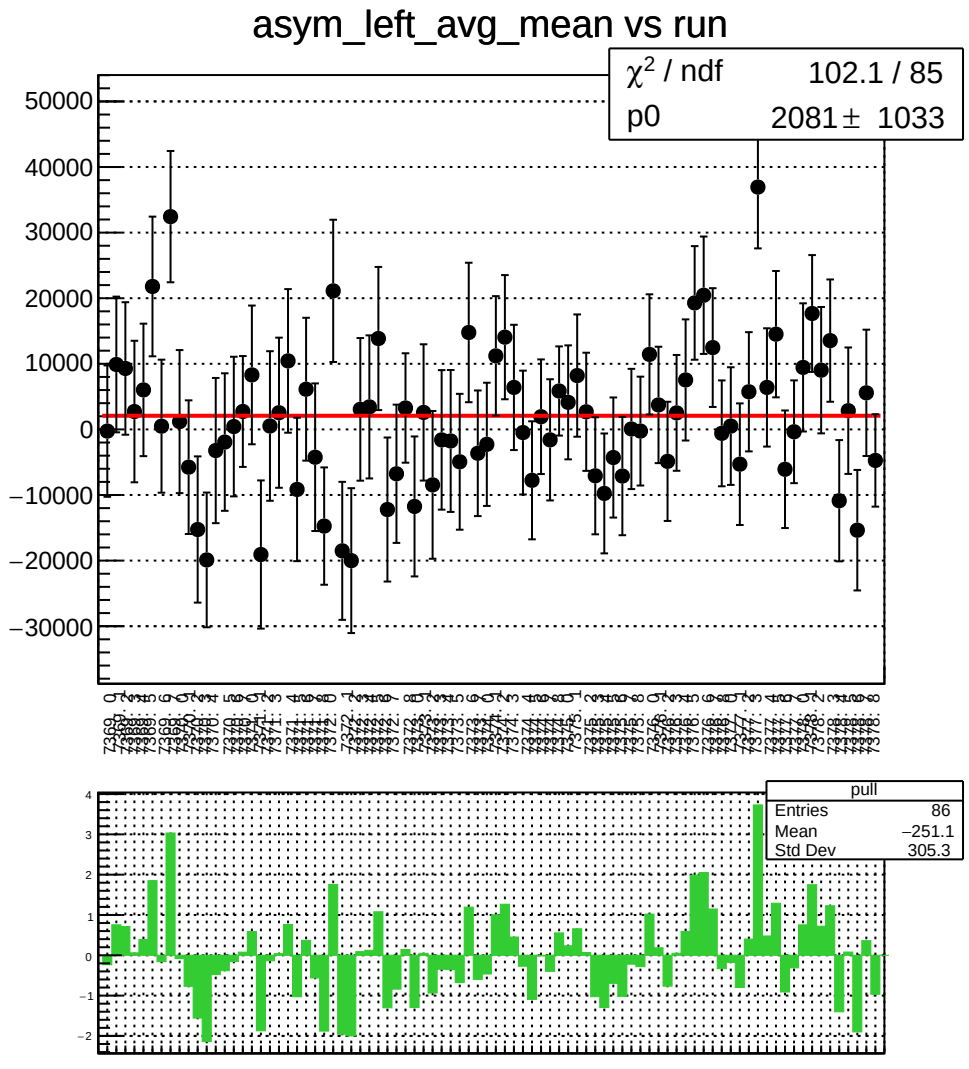

pull1D
Entries 86
Mean 0.004764
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

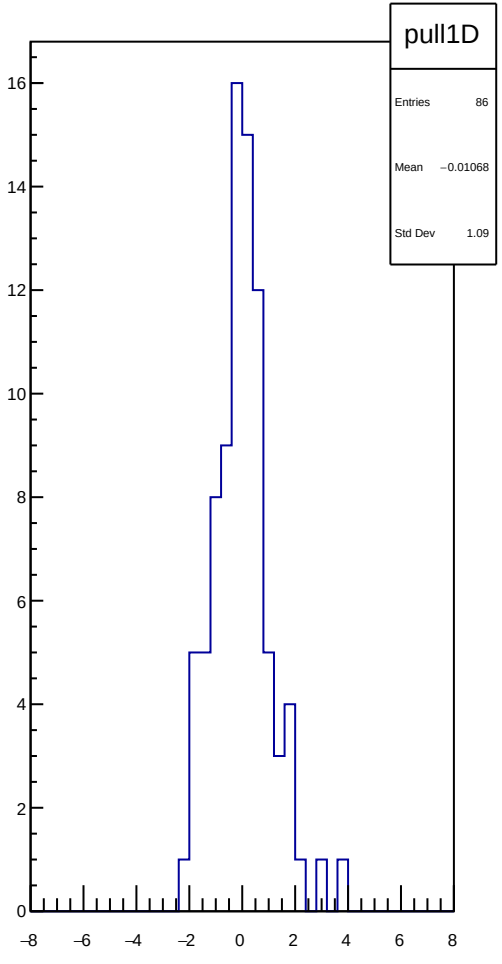

reg_asym_left_avg_rms vs run
χ² / ndf 102.8 / 85
p0 561.9 ± 0.4402
580
575
570
565
560
555
550
545

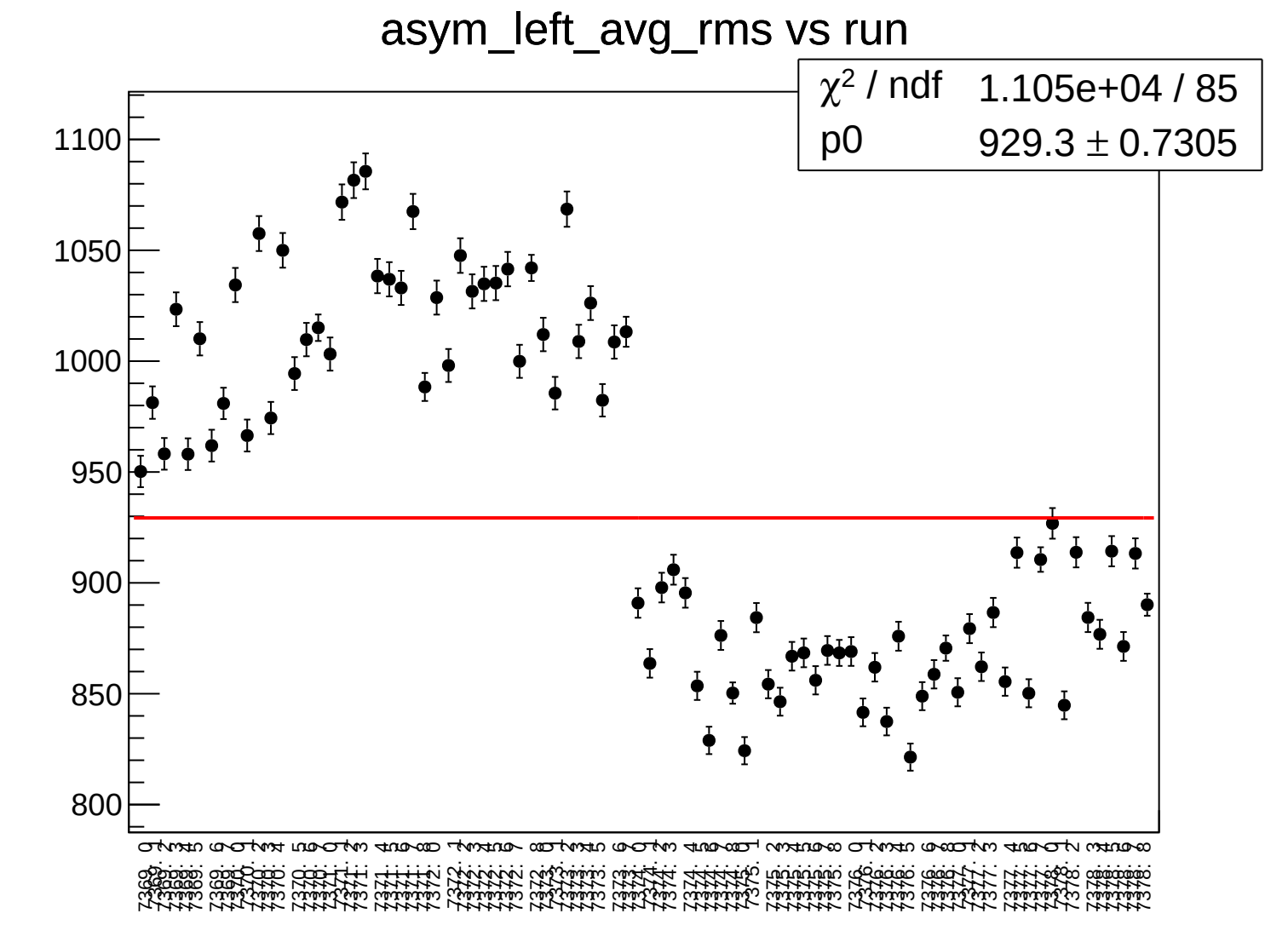

asym_left_avg_correction_mean vs run
χ² / ndf 90.81 / 85
p0 −817.6 ± 814.5
pull
Entries 86
Mean −49.31
Std Dev 120.5

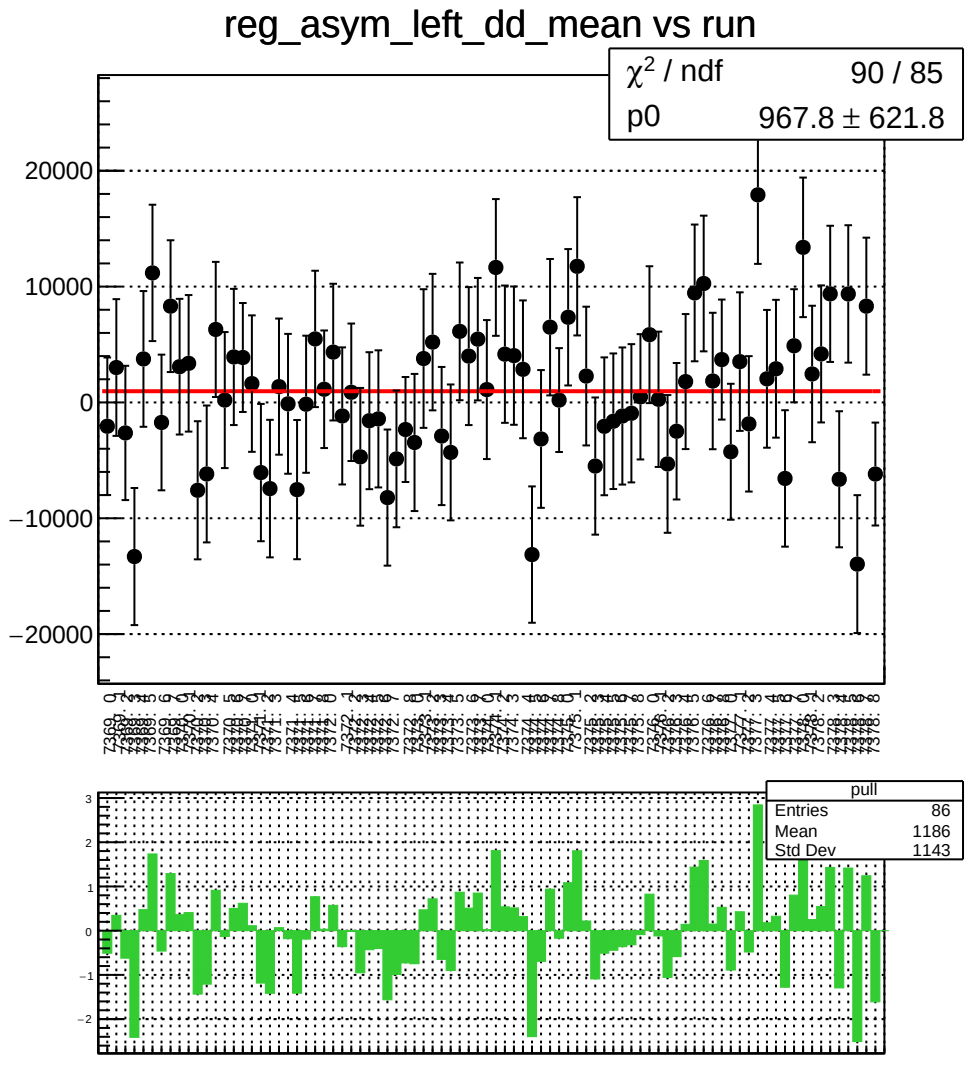

pull1D
Entries 86
Mean 0.01512
Std Dev 1.027

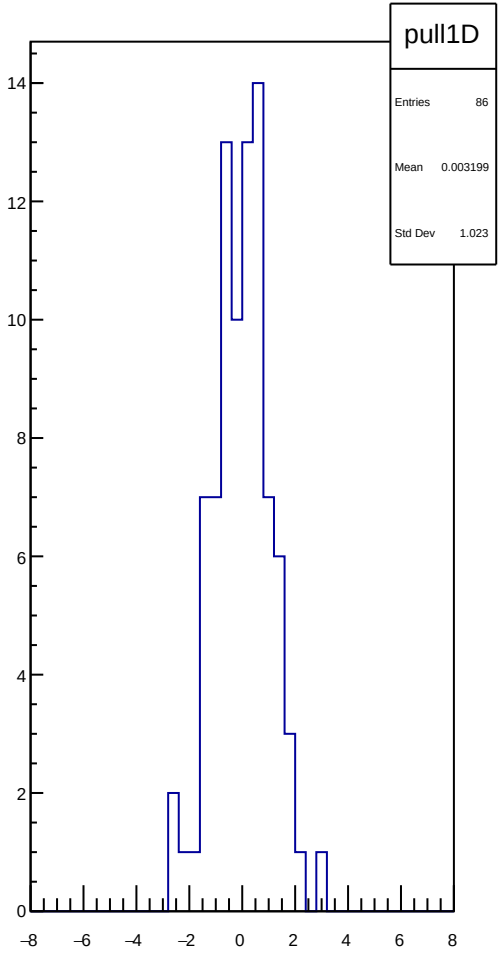

asym_left_avg_correction_rms vs run
χ² / ndf 2.67e+04 / 85
p0 729.2 ± 0.576
950
900
850
800
750
700
650
600

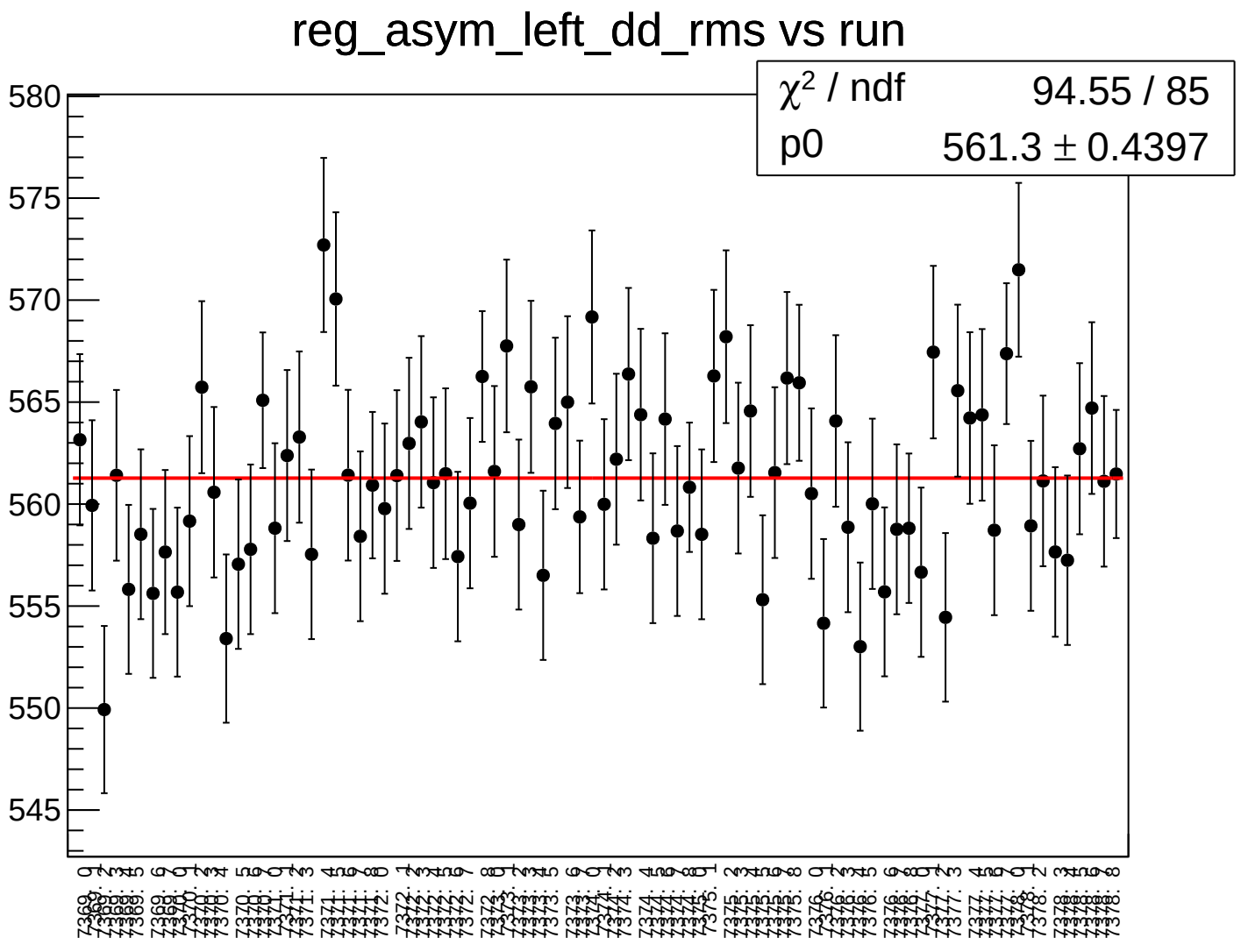

asym_left_avg_mean vs run
χ² / ndf 102.1 / 85
p0 2081 ± 1033
pull
Entries 86
Mean −251.1
Std Dev 305.3

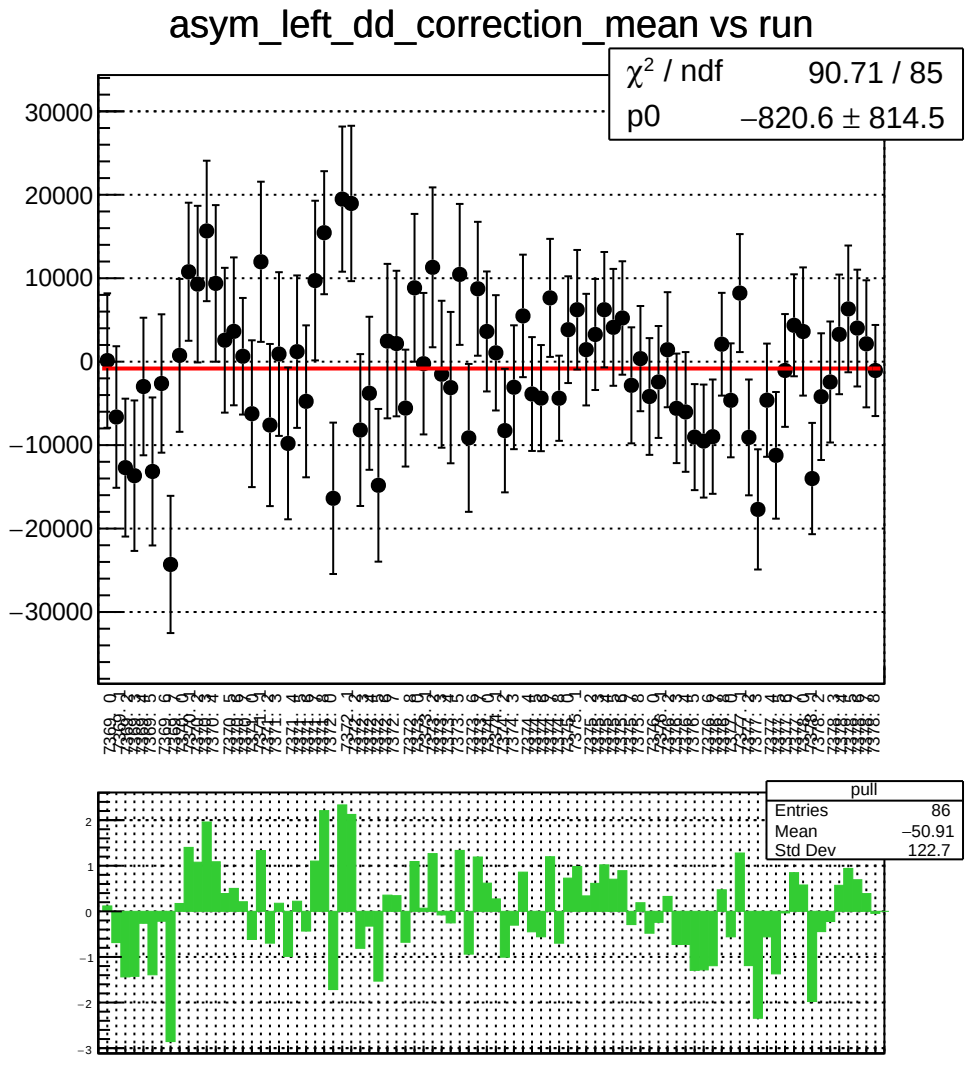

pull1D
Entries 86
Mean −0.01068
Std Dev 1.09

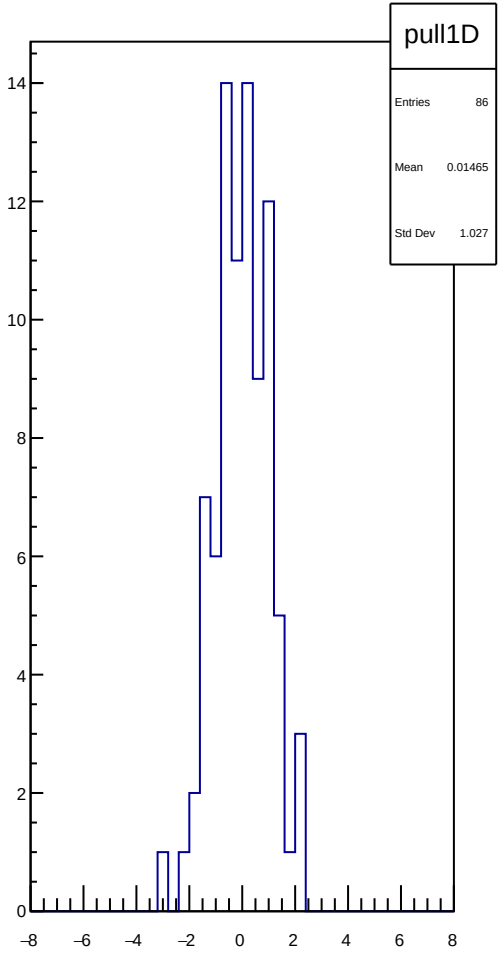

asym_left_avg_rms vs run
χ² / ndf 1.105e+04 / 85
p0 929.3 ± 0.7305
1100
1050
1000
950
900
850
800

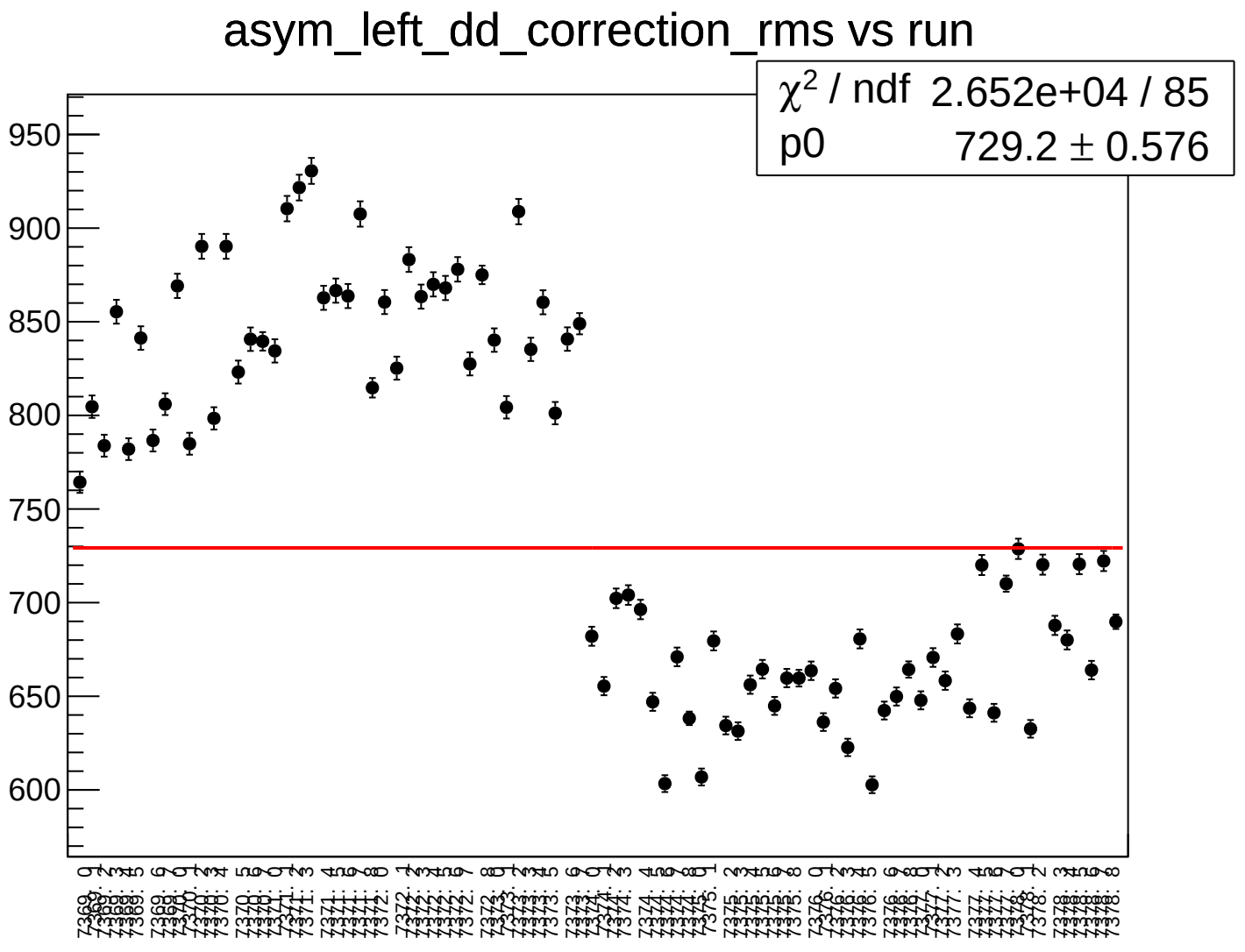

reg_asym_left_dd_mean vs run
χ² / ndf 90 / 85
p0 967.8 ± 621.8
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 1186
Std Dev 1143
3
2
1
0
−1
−2

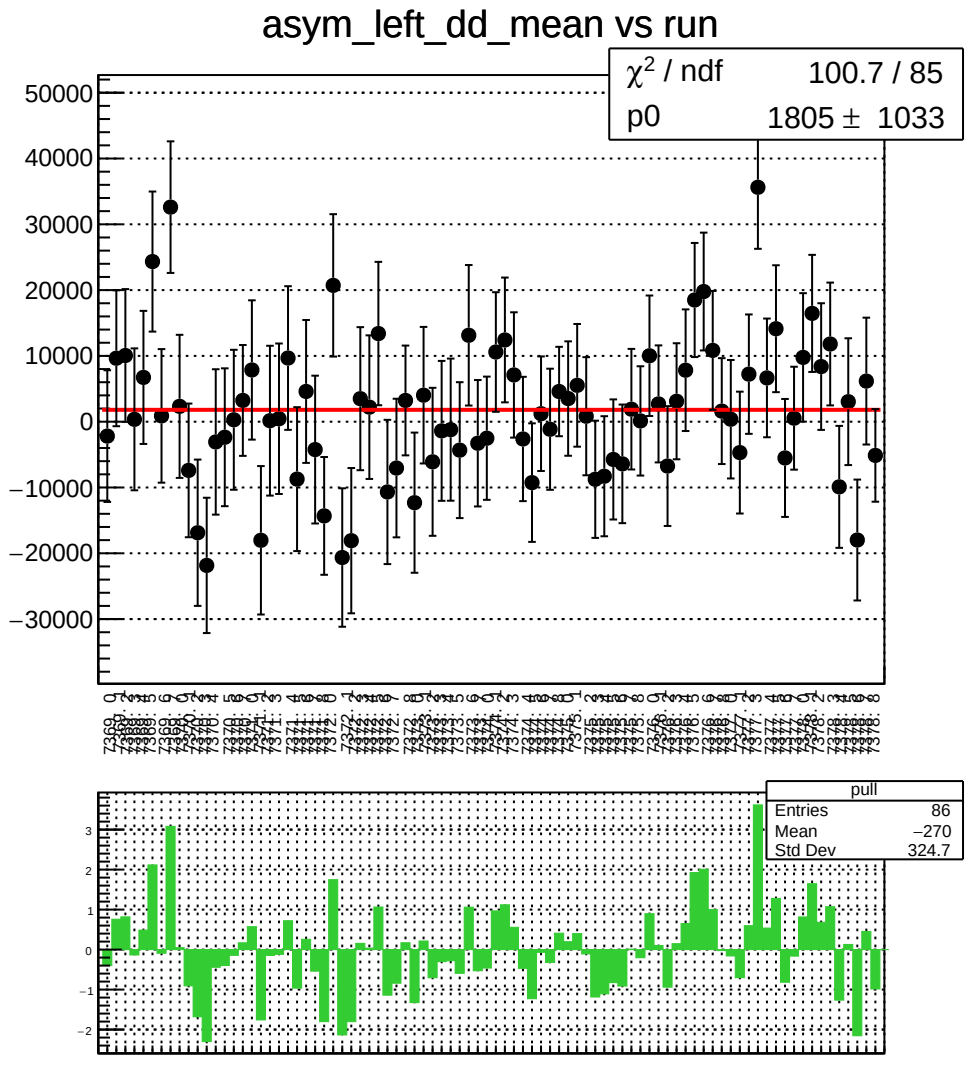

pull1D
Entries 86
Mean 0.003199
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

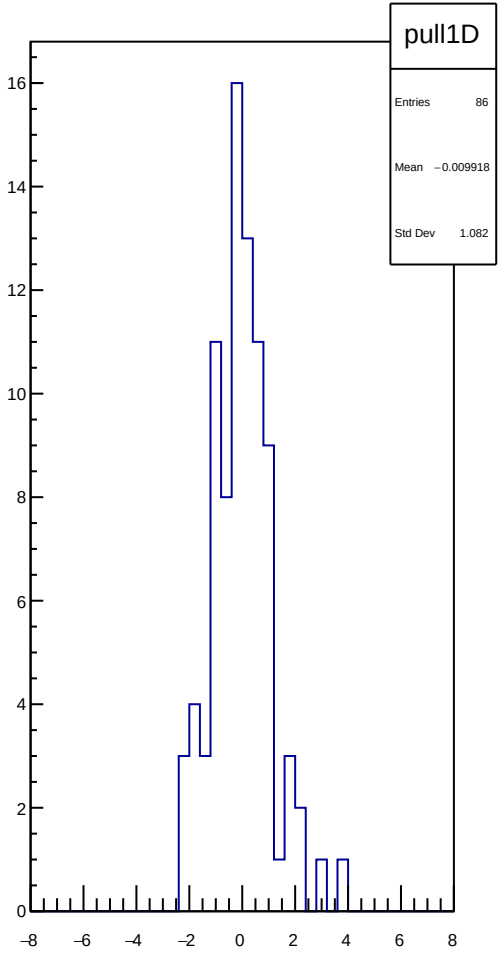

reg_asym_left_dd_rms vs run
χ² / ndf 94.55 / 85
p0 561.3 ± 0.4397
580
575
570
565
560
555
550
545

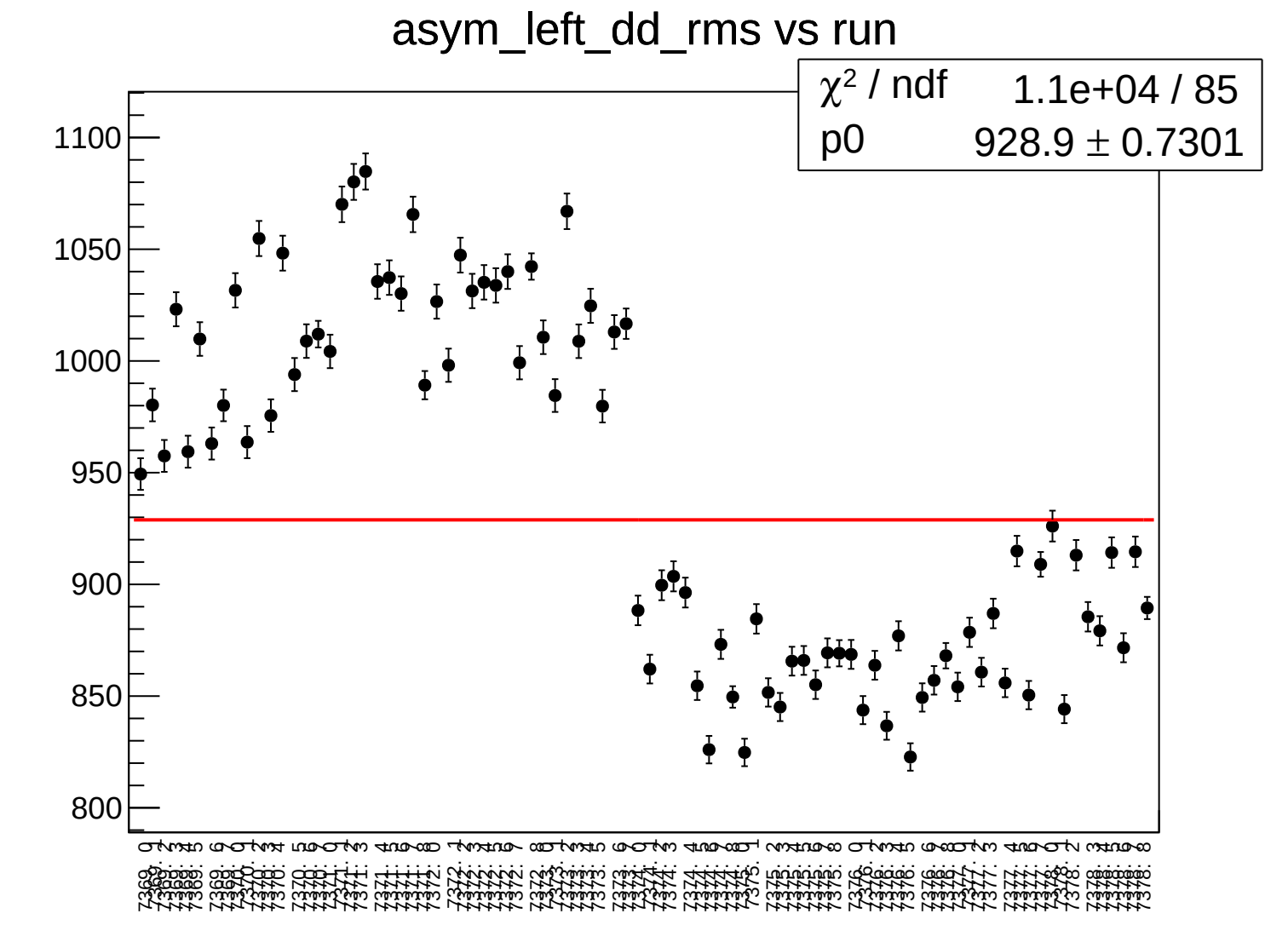

asym_left_dd_correction_mean vs run
χ² / ndf 90.71 / 85
p0 −820.6 ± 814.5
pull
Entries 86
Mean −50.91
Std Dev 122.7

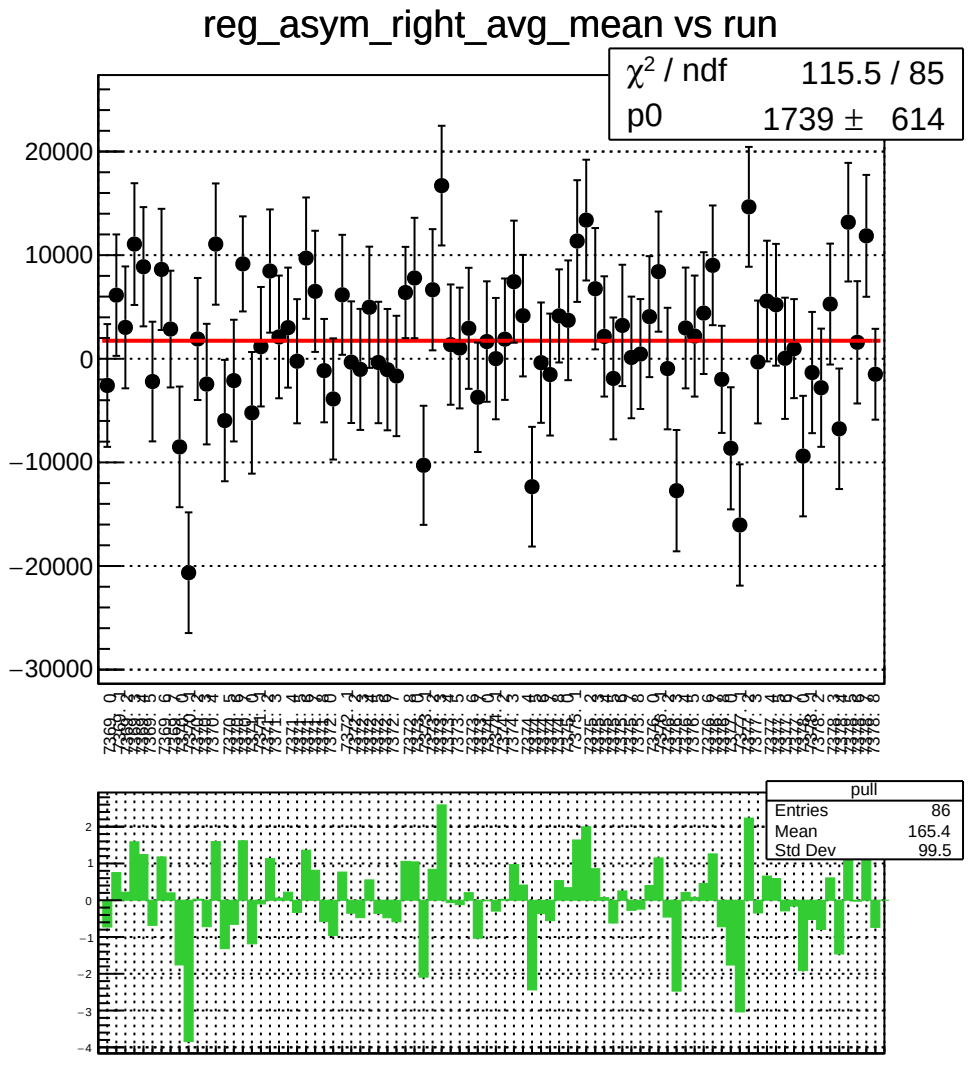

pull1D
Entries 86
Mean 0.01465
Std Dev 1.027

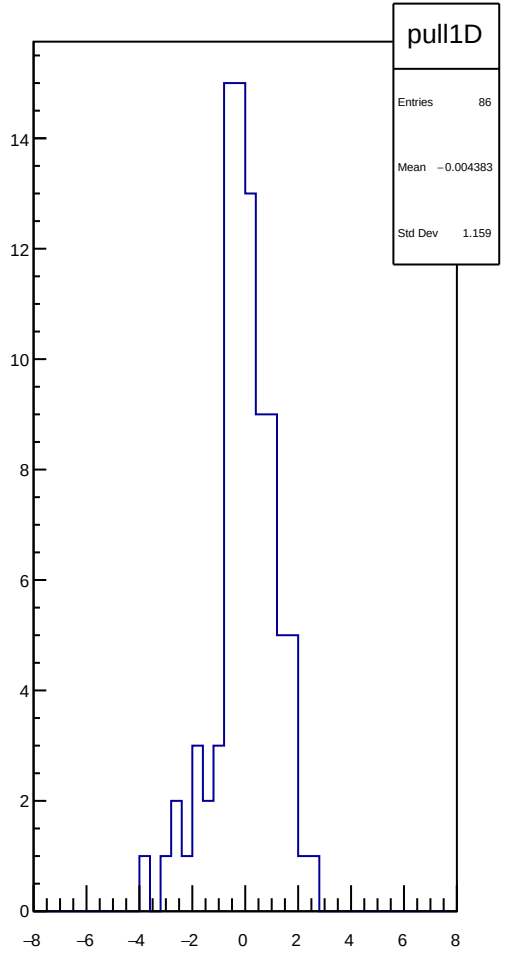

asym_left_dd_correction_rms vs run
χ^2 / ndf 2.652e+04 / 85
p0 729.2 ± 0.576
950
900
850
800
750
700
650
600

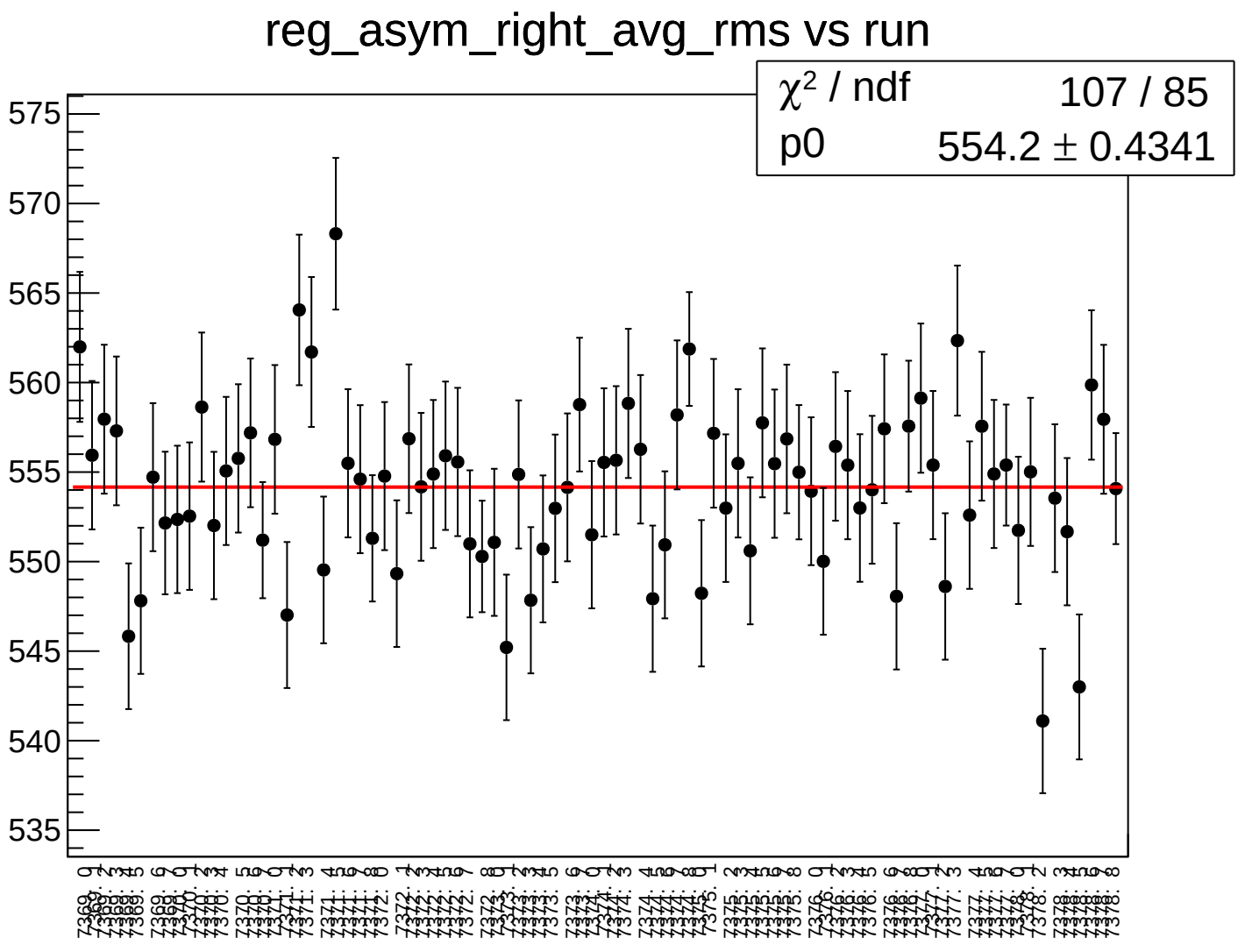

asym_left_dd_mean vs run
χ² / ndf 100.7 / 85
p0 1805 ± 1033
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −270
Std Dev 324.7
3
2
1
0
−1
−2

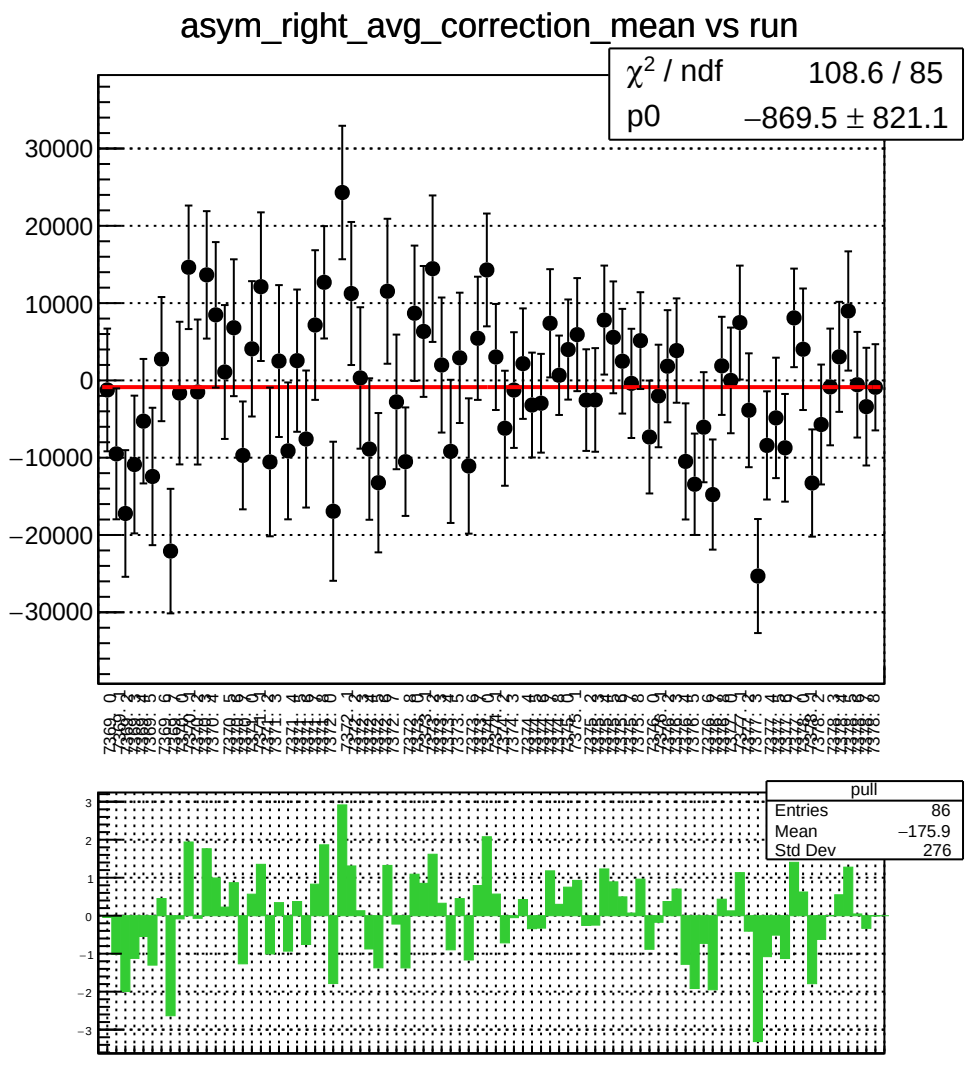

pull1D
Entries 86
Mean −0.009918
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

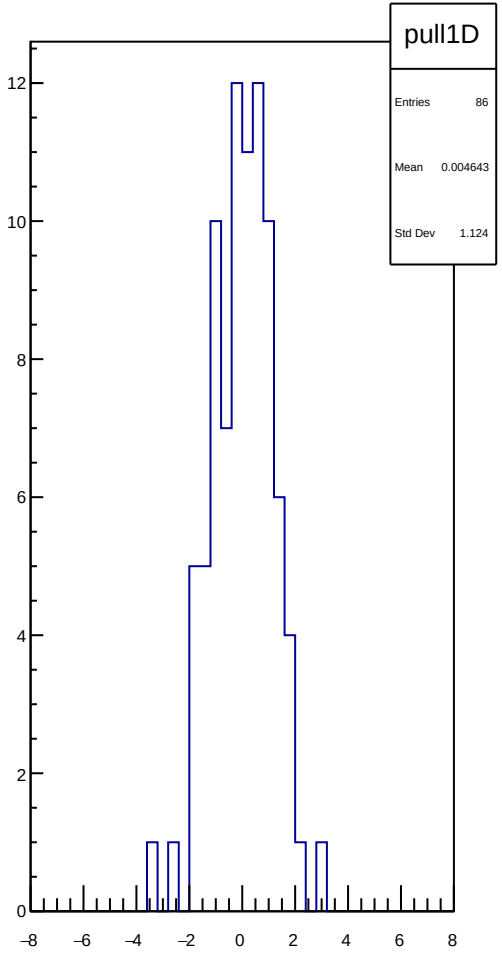

asym_left_dd_rms vs run
χ² / ndf 1.1e+04 / 85
p0 928.9 ± 0.7301
1100
1050
1000
950
900
850
800

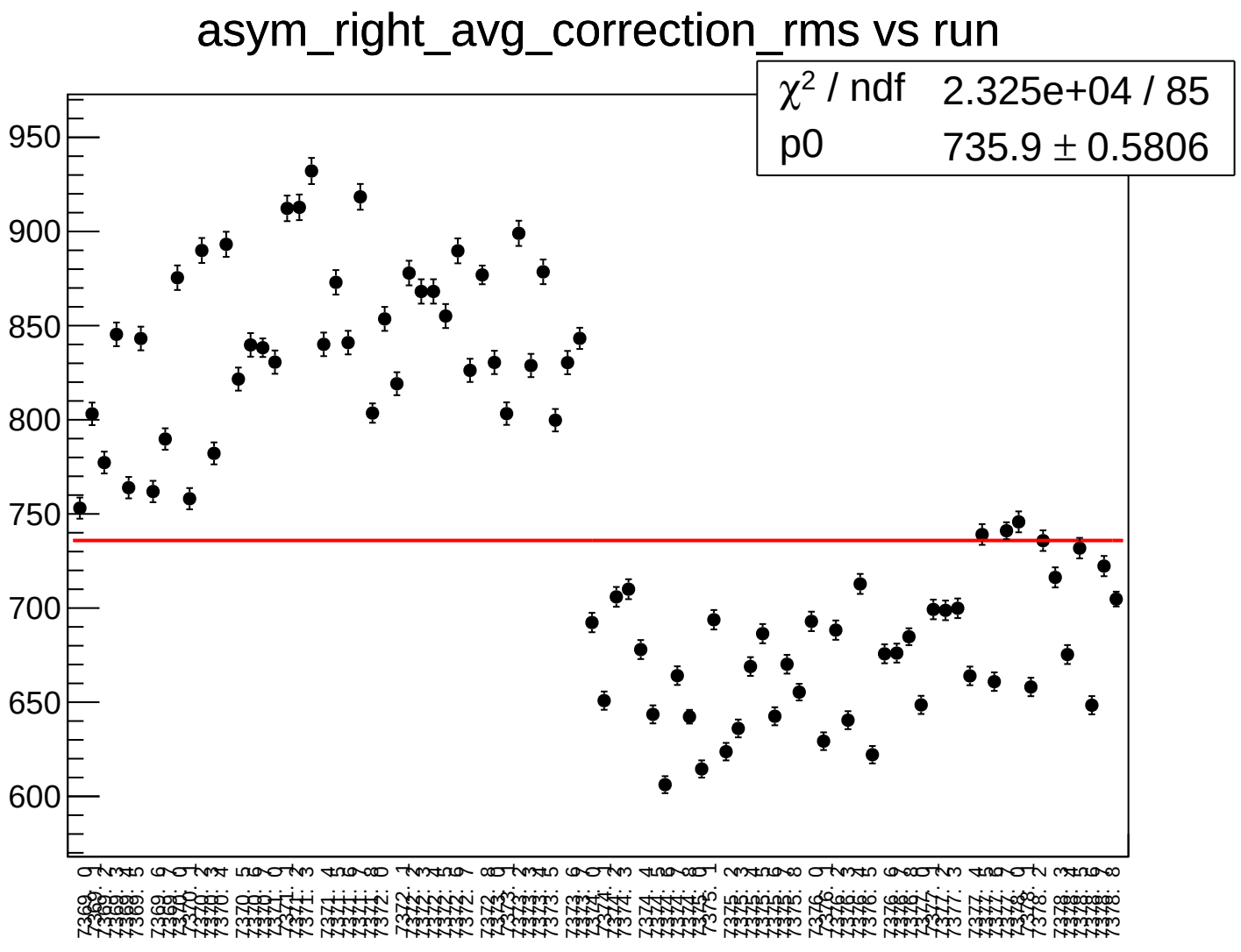

reg_asym_right_avg_mean vs run
χ² / ndf 115.5 / 85
p0 1739 ± 614
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 165.4
Std Dev 99.5
2
1
0
−1
−2
−3
−4

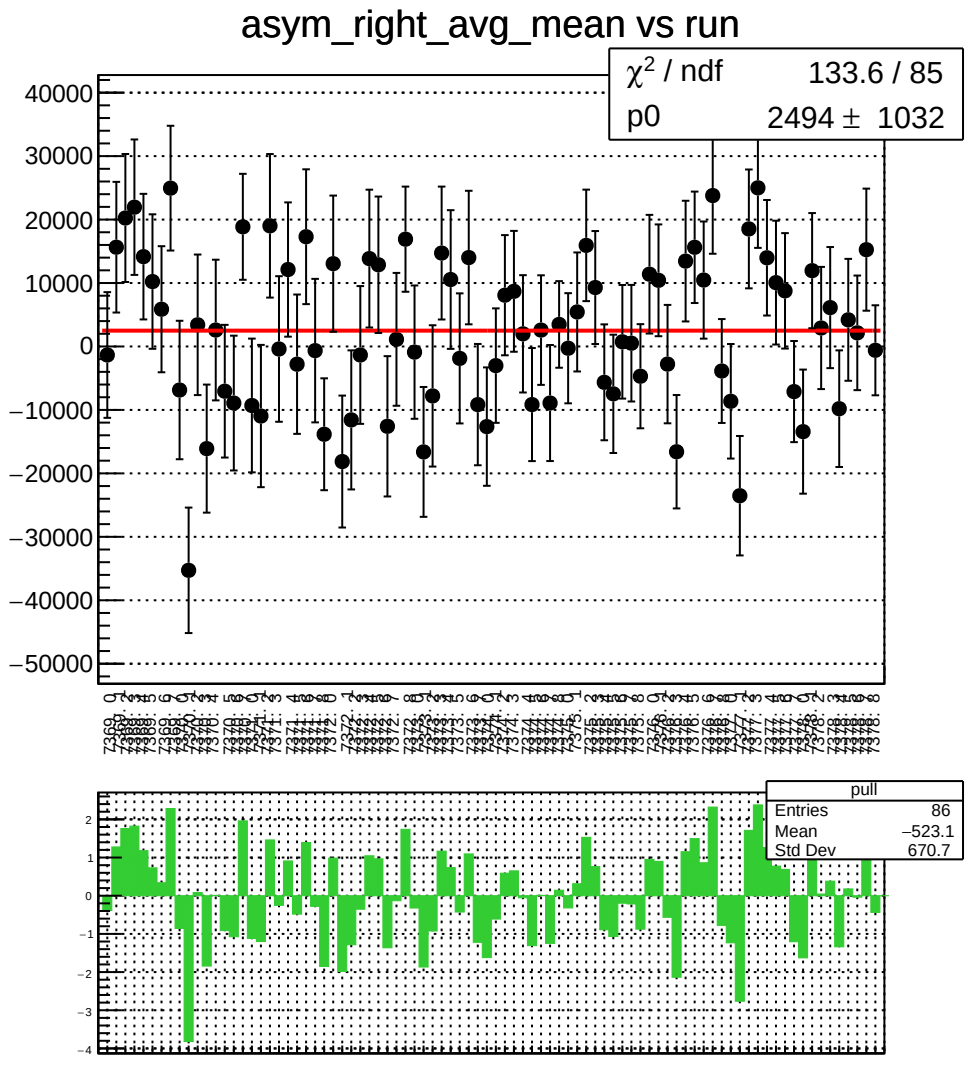

pull1D
Entries 86
Mean −0.004383
Std Dev 1.159
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

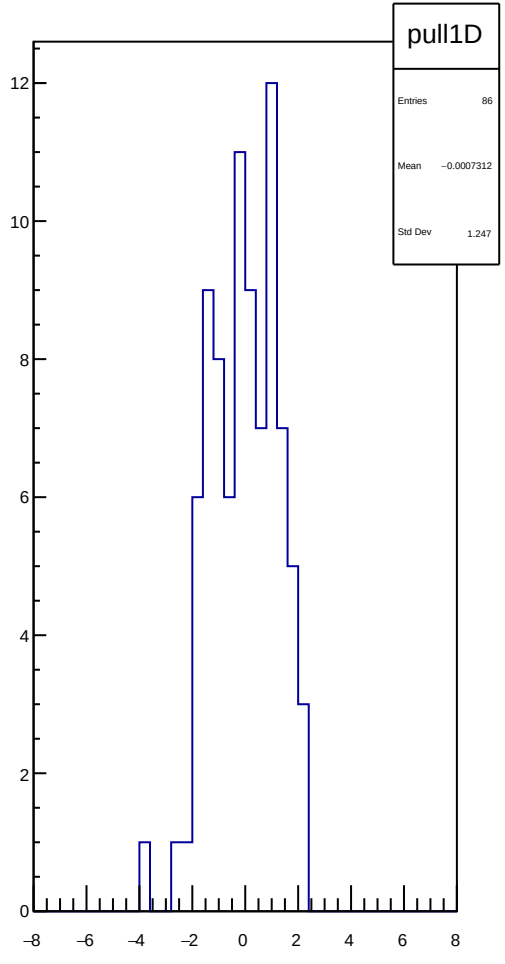

reg_asym_right_avg_rms vs run
χ² / ndf 107 / 85
p0 554.2 ± 0.4341
575
570
565
560
555
550
545
540
535

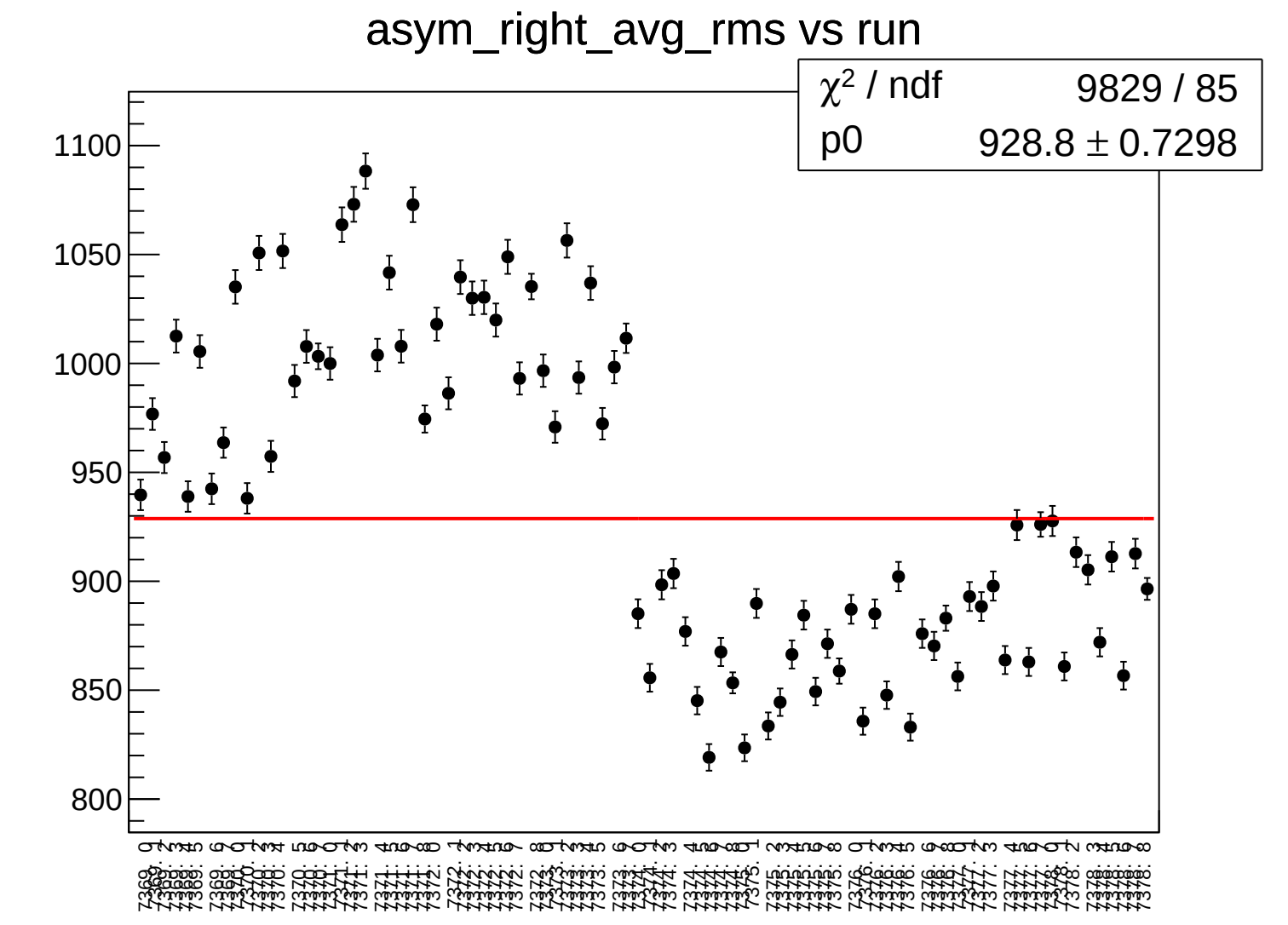

asym_right_avg_correction_mean vs run
χ² / ndf 108.6 / 85
p0 −869.5 ± 821.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −175.9
Std Dev 276
3
2
1
0
−1
−2
−3

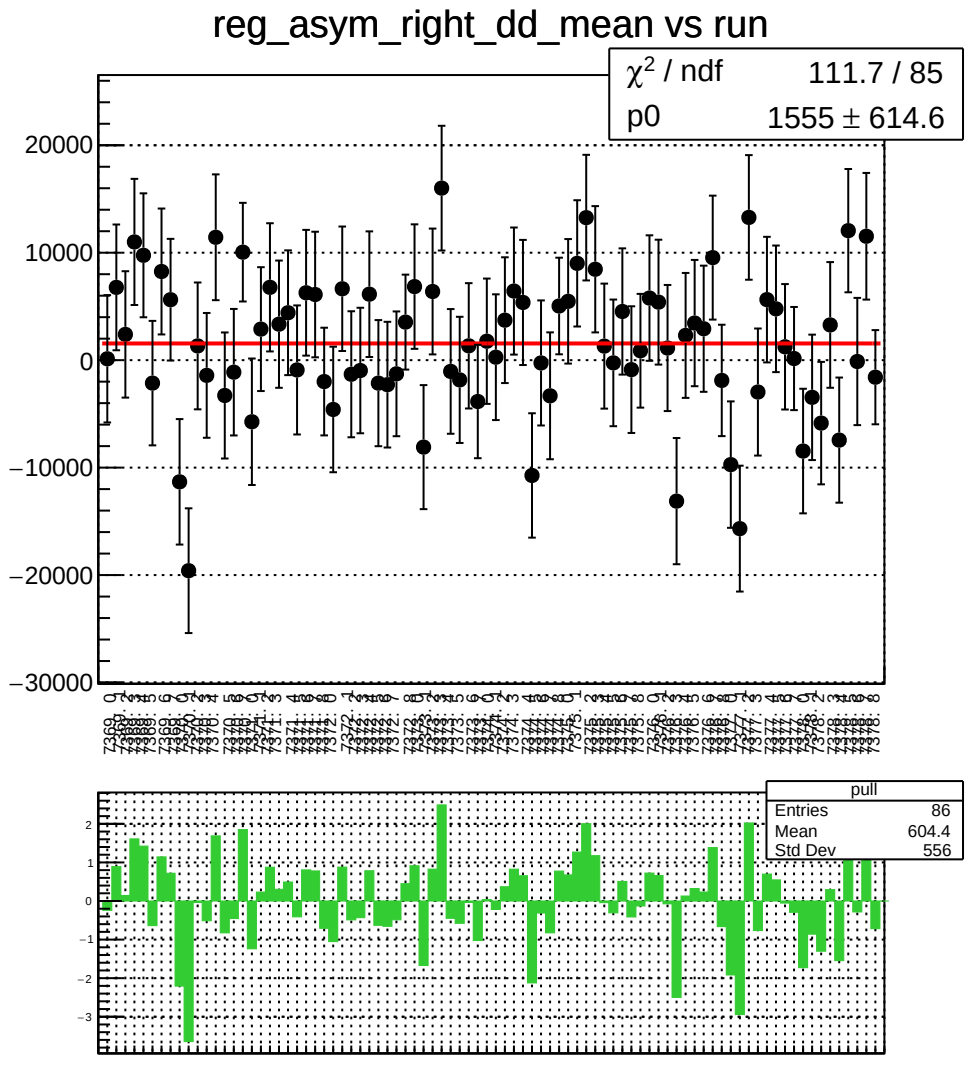

pull1D
Entries 86
Mean 0.004643
Std Dev 1.124
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

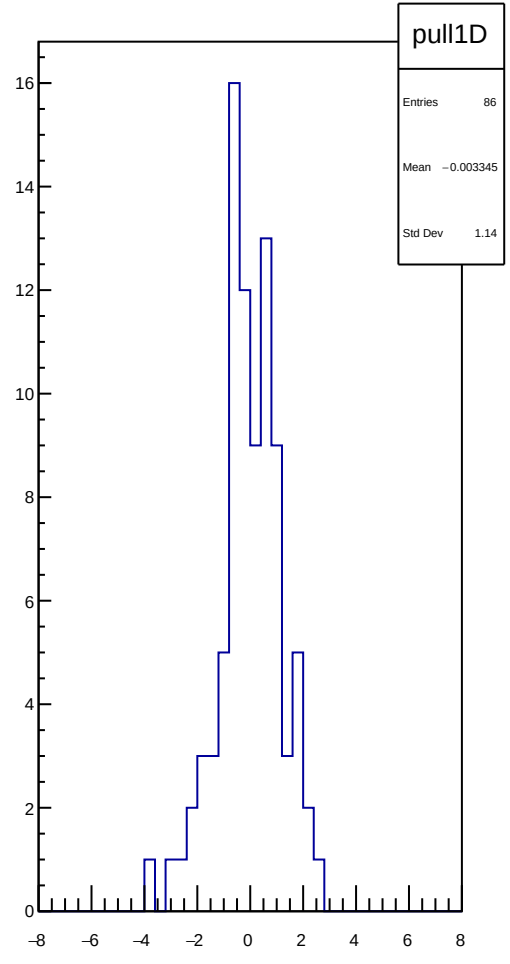

asym_right_avg_correction_rms vs run
χ² / ndf 2.325e+04 / 85
p0 735.9 ± 0.5806
950
900
850
800
750
700
650
600

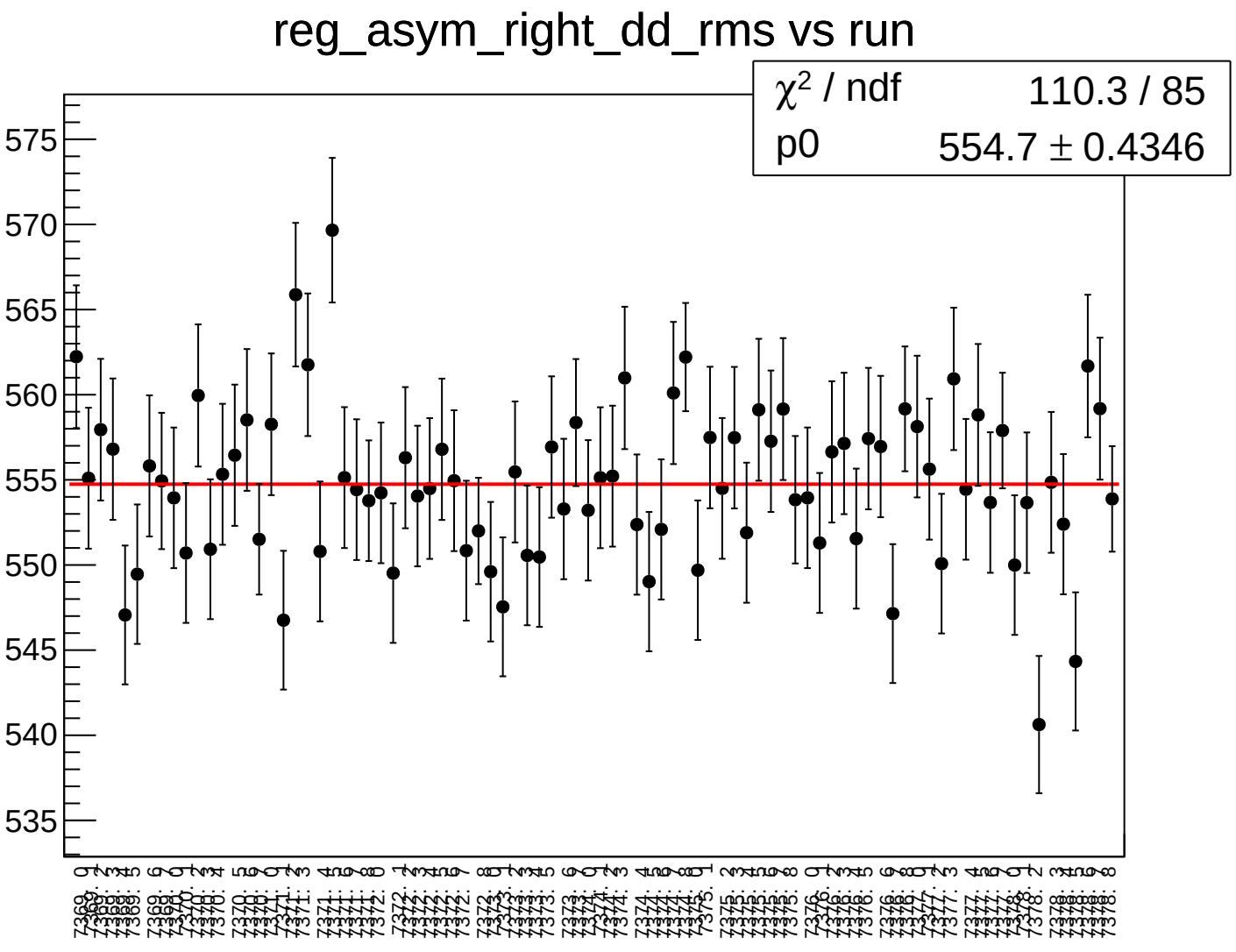

asym_right_avg_mean vs run
χ² / ndf 133.6 / 85
p0 2494 ± 1032
pull
Entries 86
Mean −523.1
Std Dev 670.7

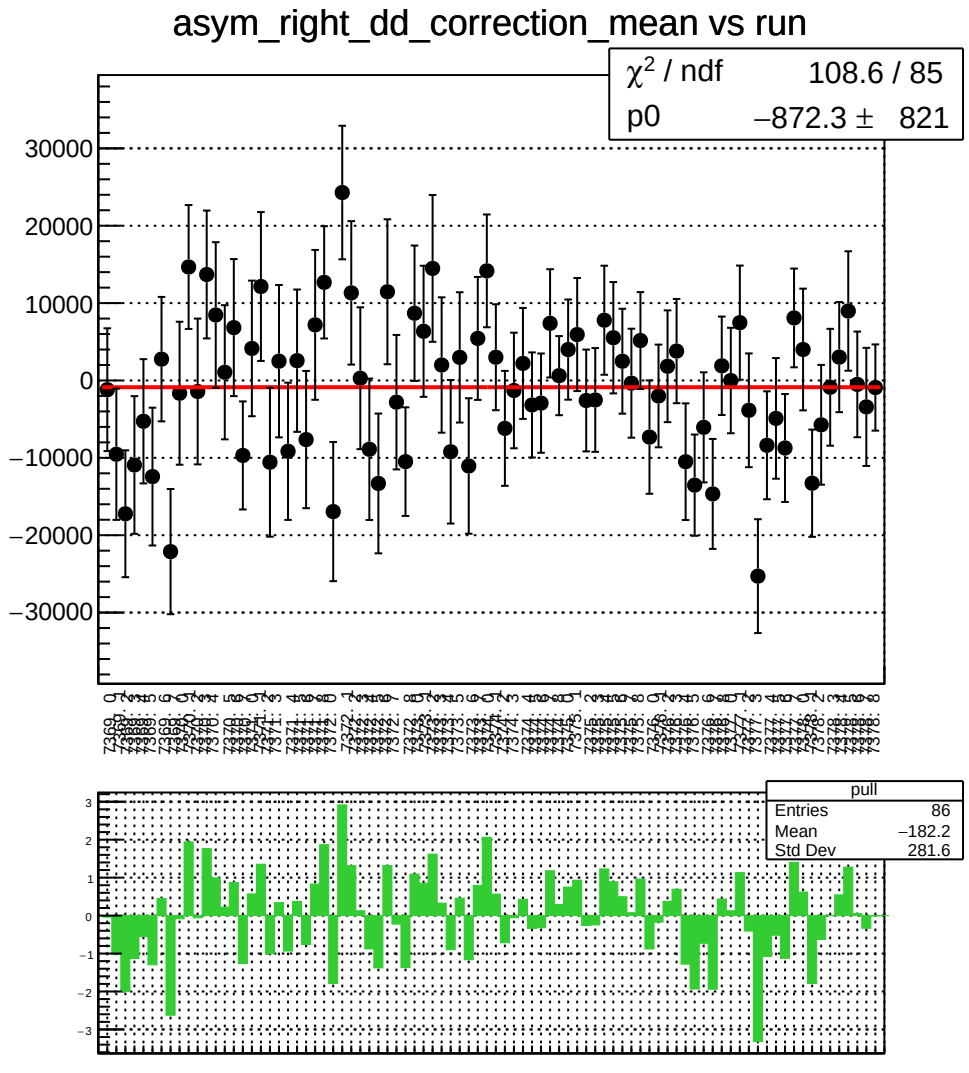

pull1D
Entries 86
Mean −0.0007312
Std Dev 1.247

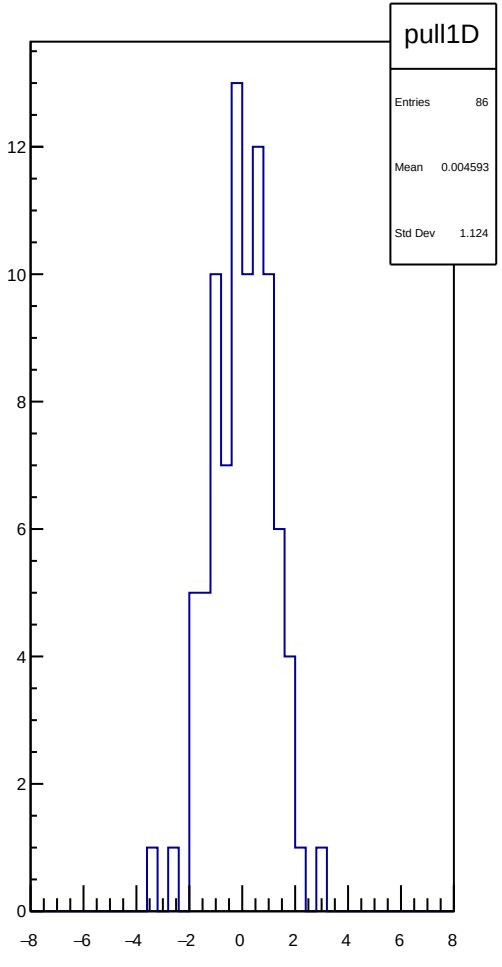

asym_right_avg_rms vs run
χ^2 / ndf 9829 / 85
p0 928.8 ± 0.7298
1100
1050
1000
950
900
850
800

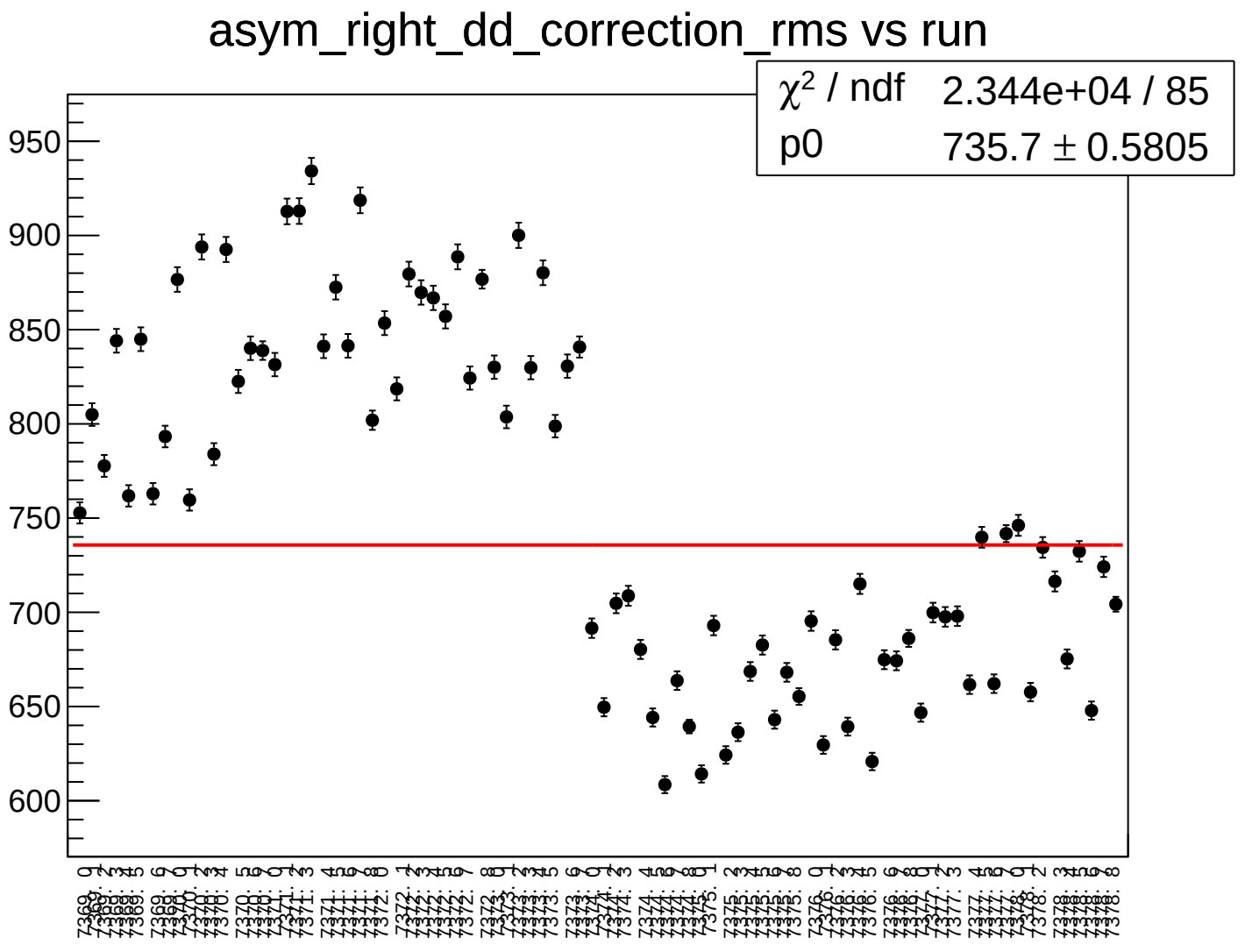

reg_asym_right_dd_mean vs run
χ² / ndf 111.7 / 85
p0 1555 ± 614.6
pull
Entries 86
Mean 604.4
Std Dev 556

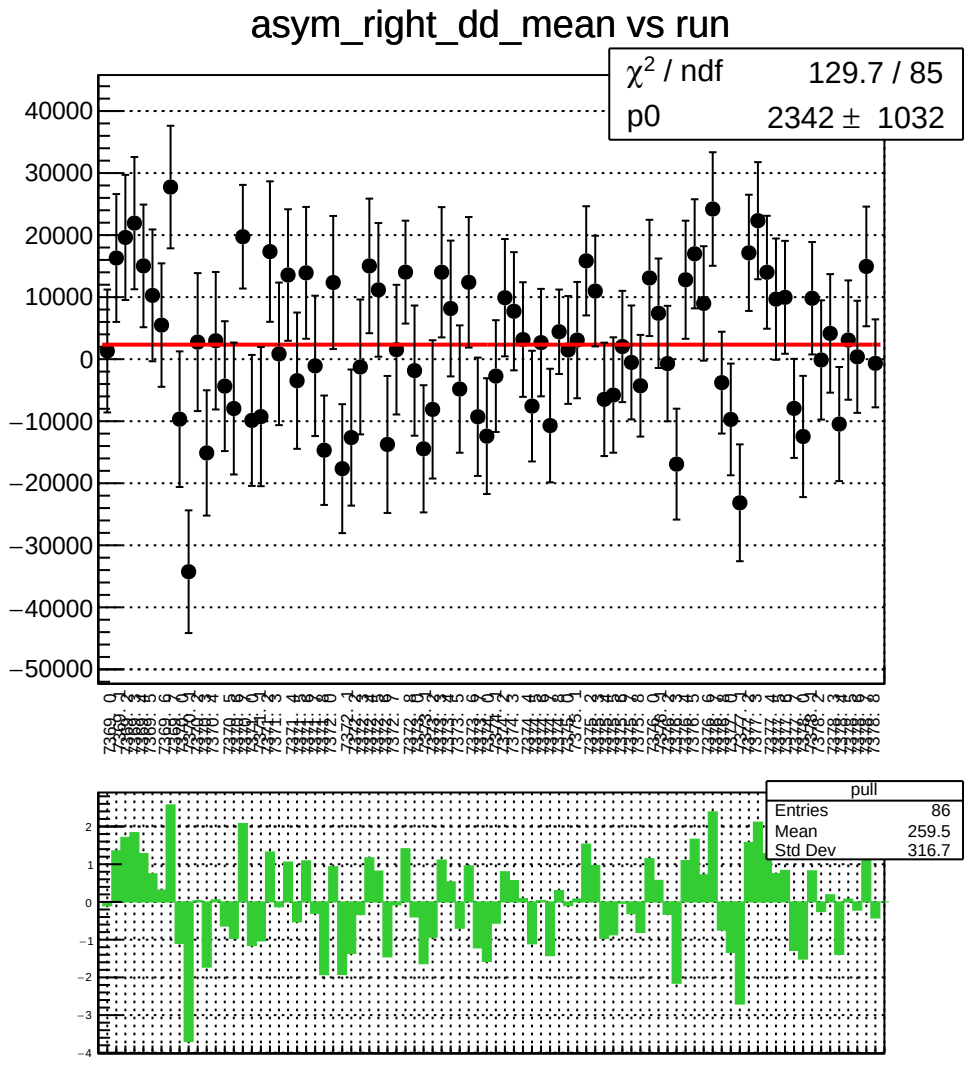

pull1D
Entries 86
Mean −0.003345
Std Dev 1.14

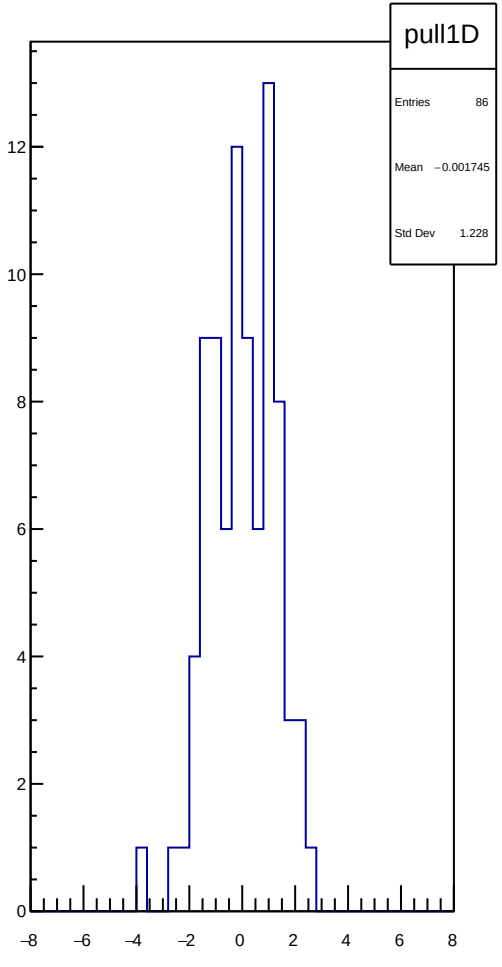

reg_asym_right_dd_rms vs run
χ^2 / ndf 110.3 / 85
p0 554.7 ± 0.4346
575
570
565
560
555
550
545
540
535

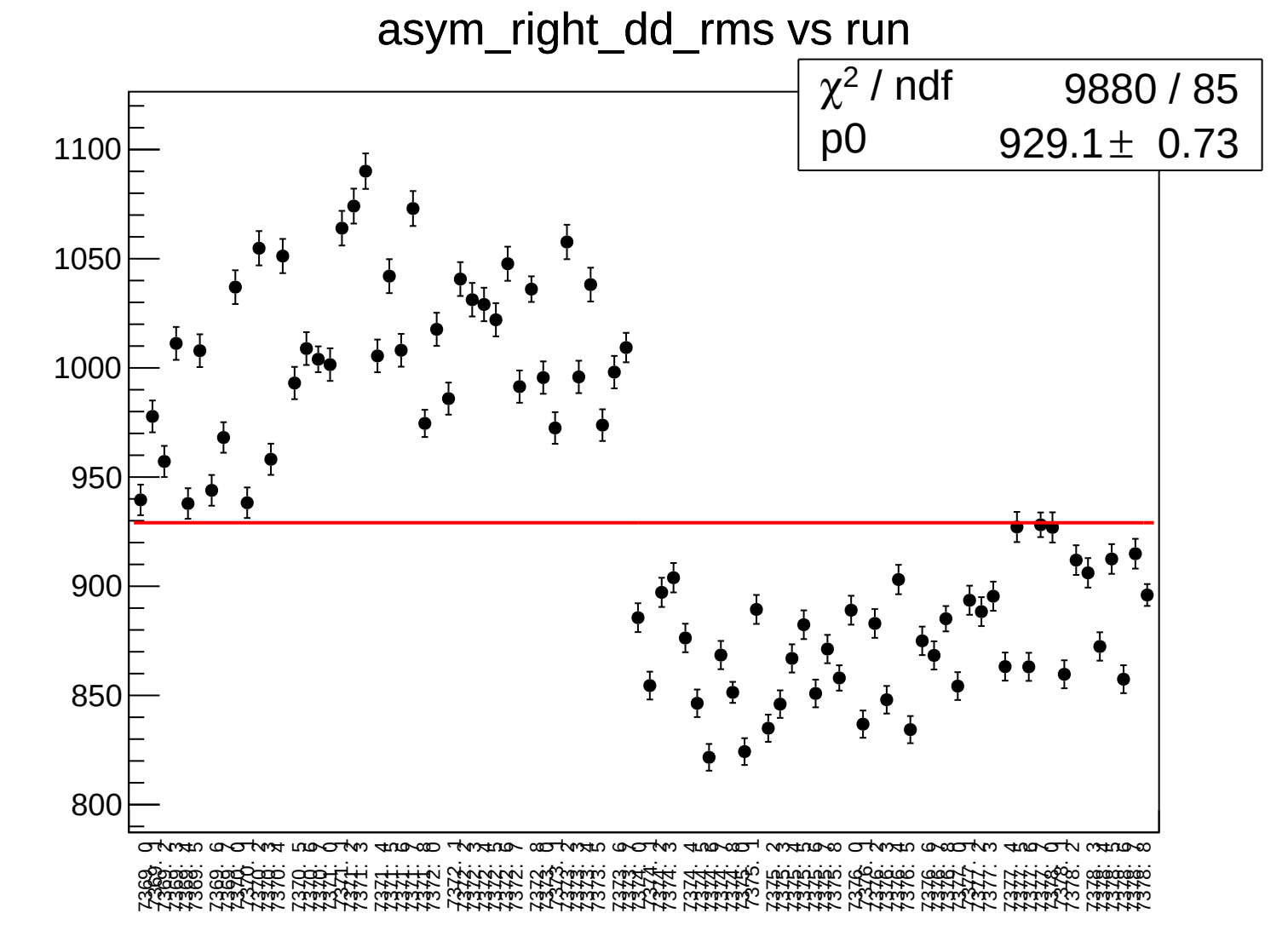

asym_right_dd_correction_mean vs run
χ² / ndf 108.6 / 85
p0 −872.3 ± 821
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −182.2
Std Dev 281.6
3
2
1
0
−1
−2
−3

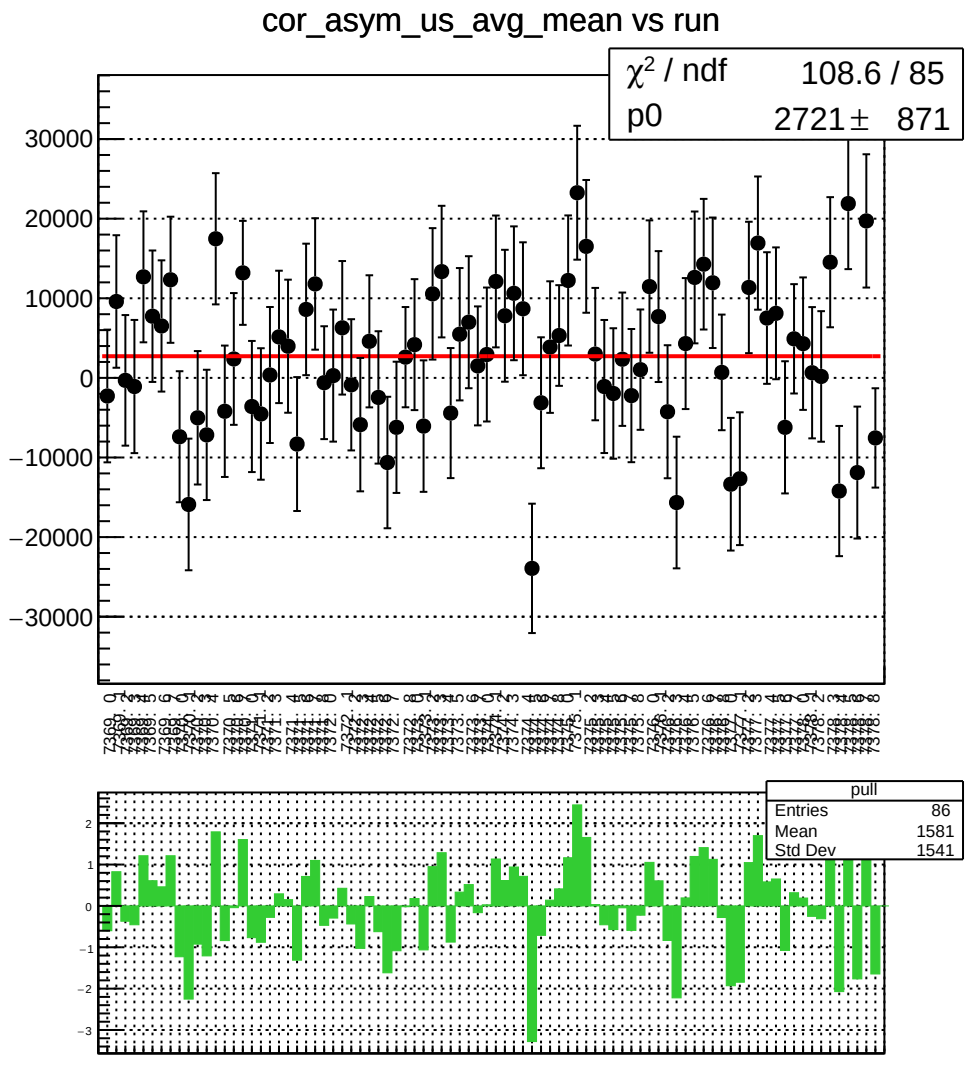

pull1D
Entries 86
Mean 0.004593
Std Dev 1.124
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

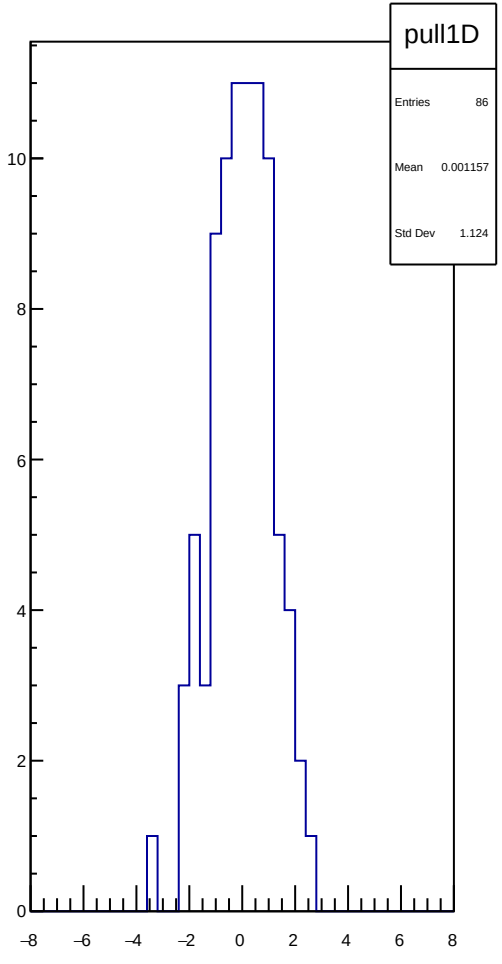

asym_right_dd_correction_rms vs run
χ² / ndf 2.344e+04 / 85
p0 735.7 ± 0.5805
950
900
850
800
750
700
650
600

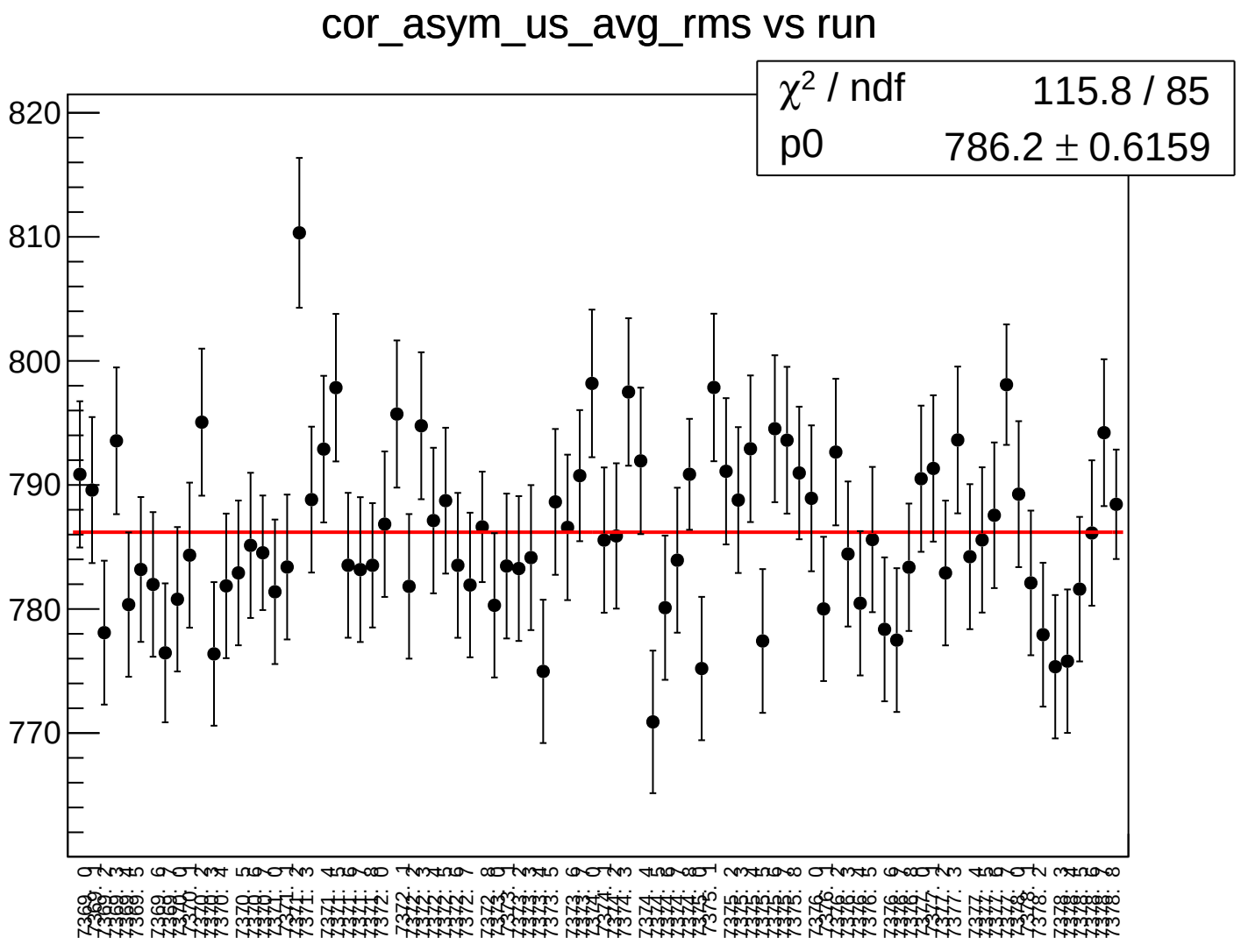

asym_right_dd_mean vs run
χ² / ndf 129.7 / 85
p0 2342 ± 1032
pull
Entries 86
Mean 259.5
Std Dev 316.7

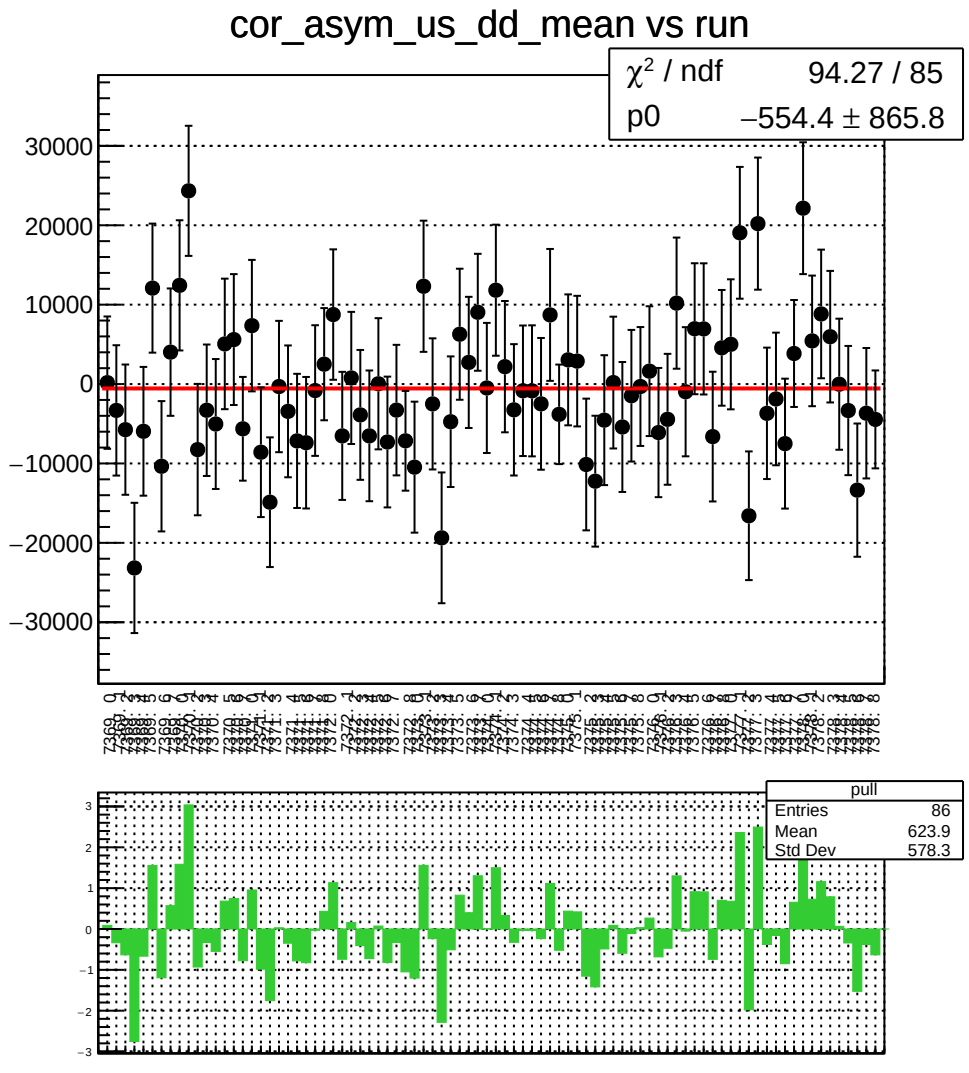

pull1D
Entries 86
Mean −0.001745
Std Dev 1.228

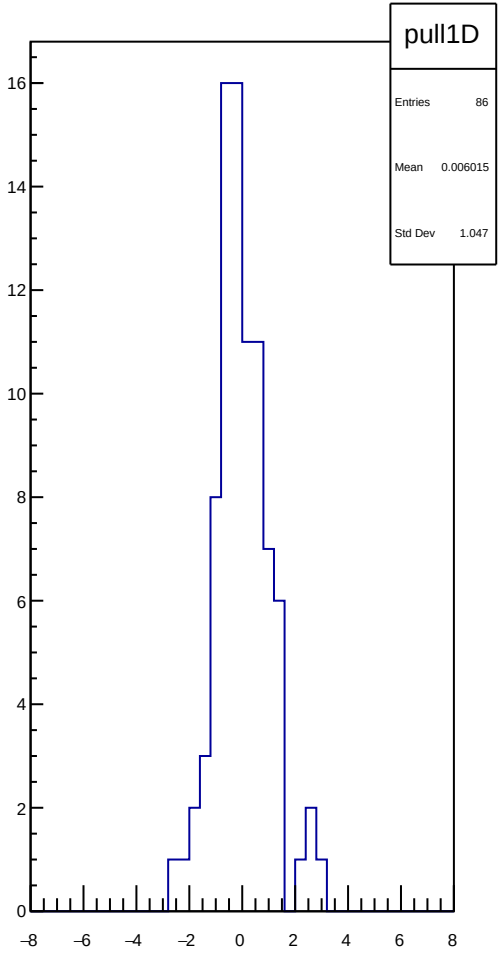

asym_right_dd_rms vs run
χ^2 / ndf 9880 / 85
p0 929.1 ± 0.73
1100
1050
1000
950
900
850
800

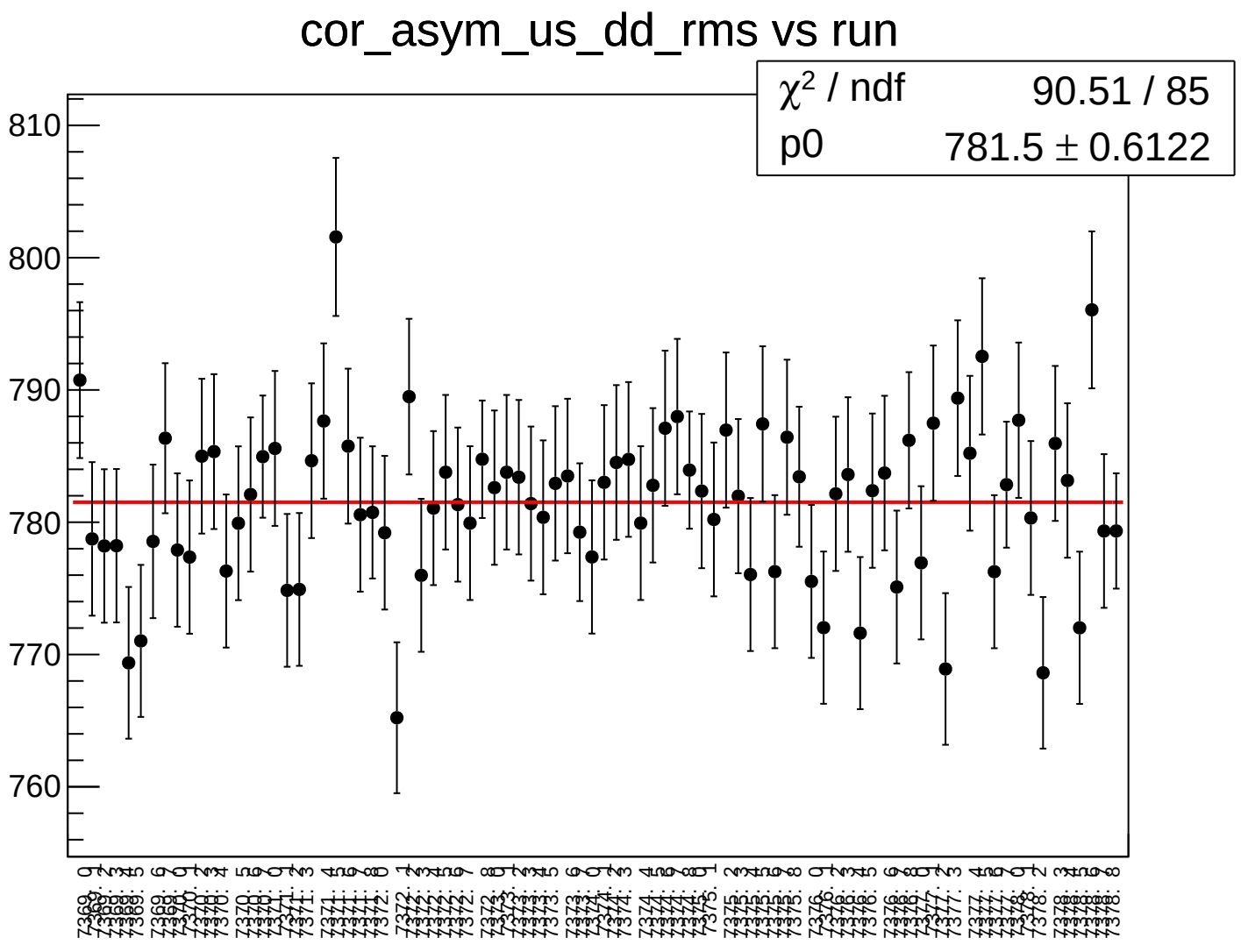

cor_asym_us_avg_mean vs run
χ² / ndf 108.6 / 85
p0 2721 ± 871
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 1581
Std Dev 1541
2
1
0
−1
−2
−3

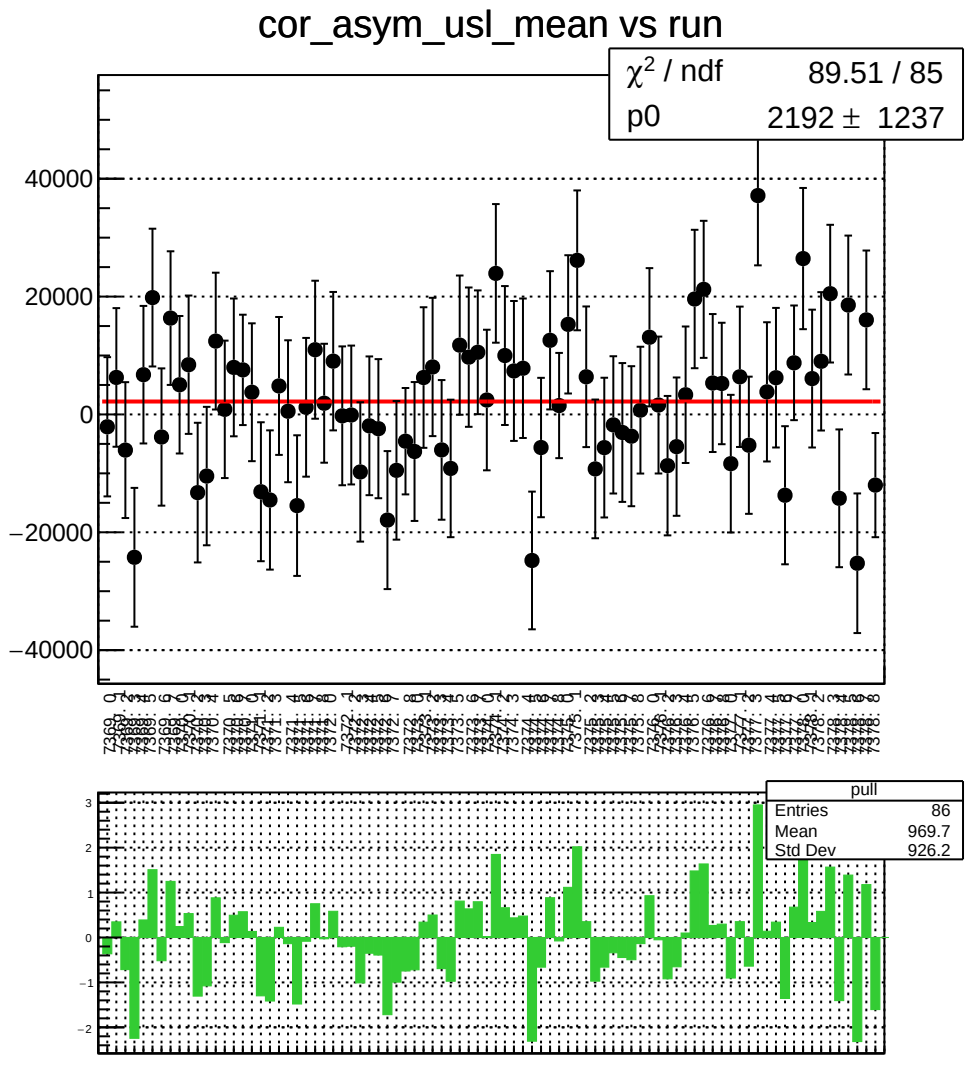

pull1D
Entries 86
Mean 0.001157
Std Dev 1.124
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

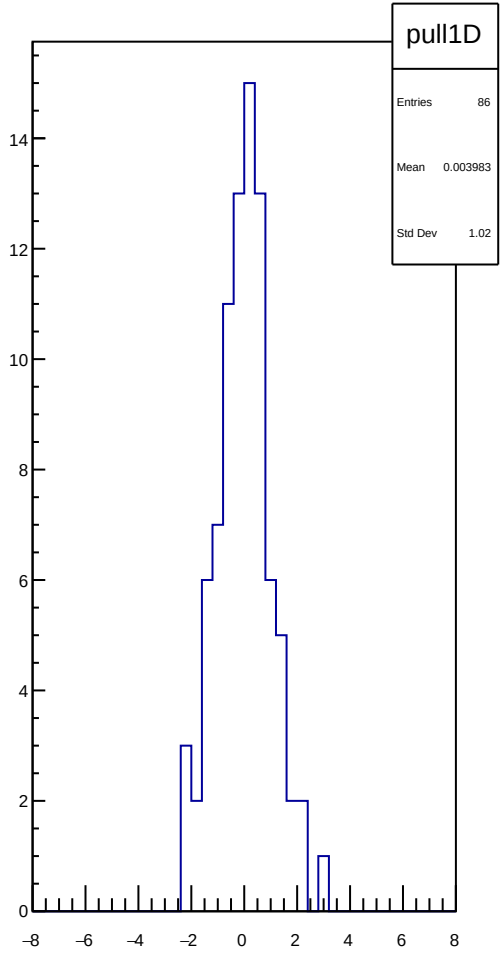

cor_asym_us_avg_rms vs run
χ² / ndf 115.8 / 85
p0 786.2 ± 0.6159
820
810
800
790
780
770

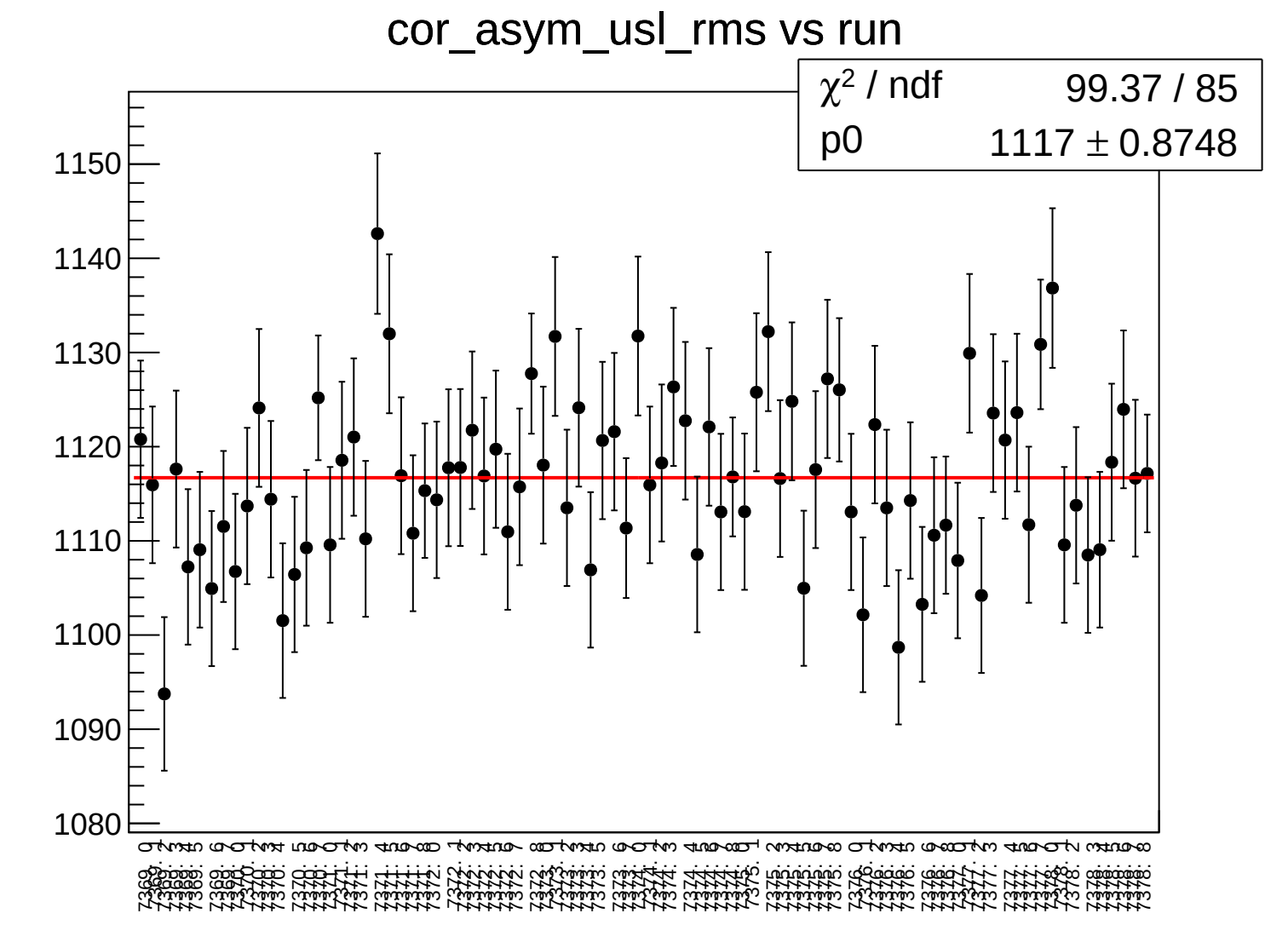

cor_asym_us_dd_mean vs run
χ² / ndf 94.27 / 85
p0 −554.4 ± 865.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 623.9
Std Dev 578.3
3
2
1
0
−1
−2
−3

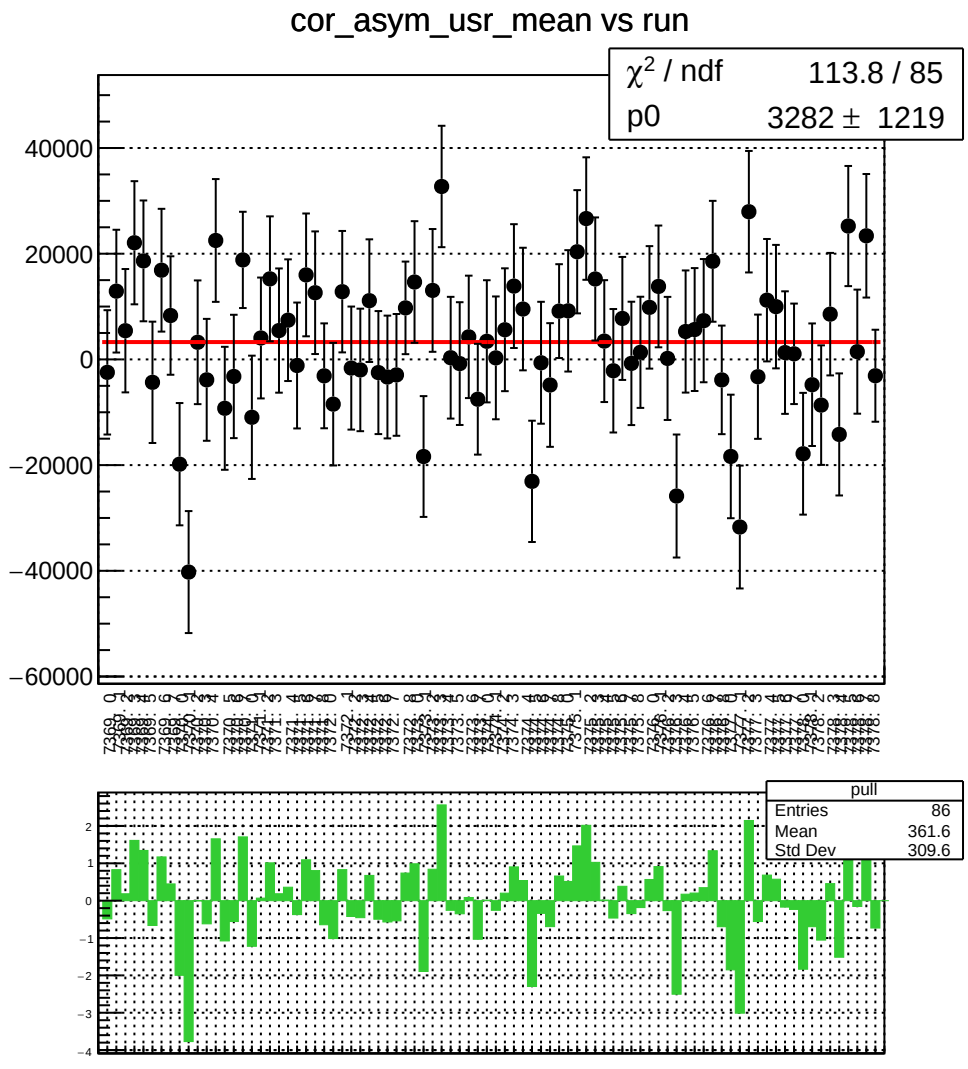

pull1D
Entries 86
Mean 0.006015
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

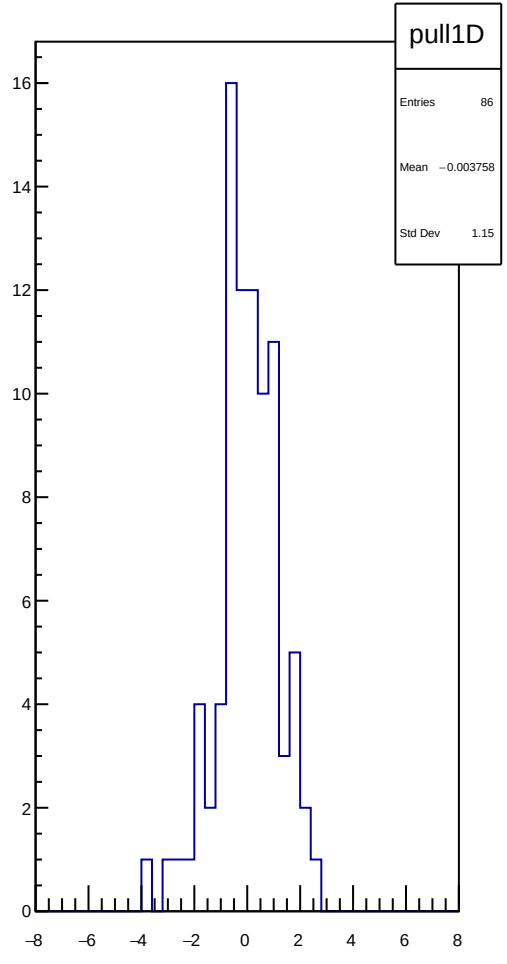

cor_asym_us_dd_rms vs run
χ^2 / ndf 90.51 / 85
p0 781.5 ± 0.6122
810
800
790
780
770
760

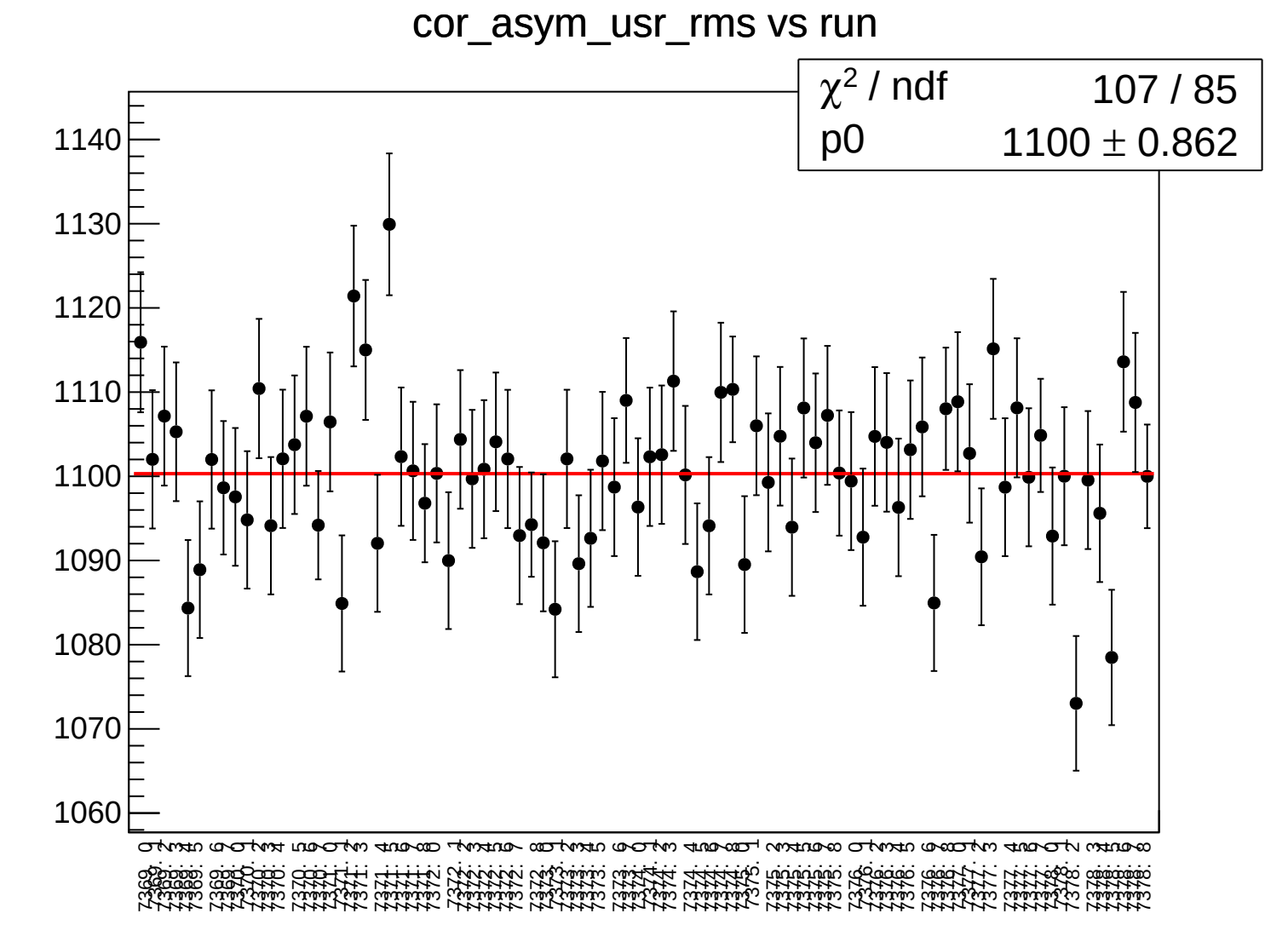

cor_asym_usl_mean vs run
χ² / ndf 89.51 / 85
p0 2192 ± 1237
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 969.7
Std Dev 926.2
3
2
1
0
−1
−2

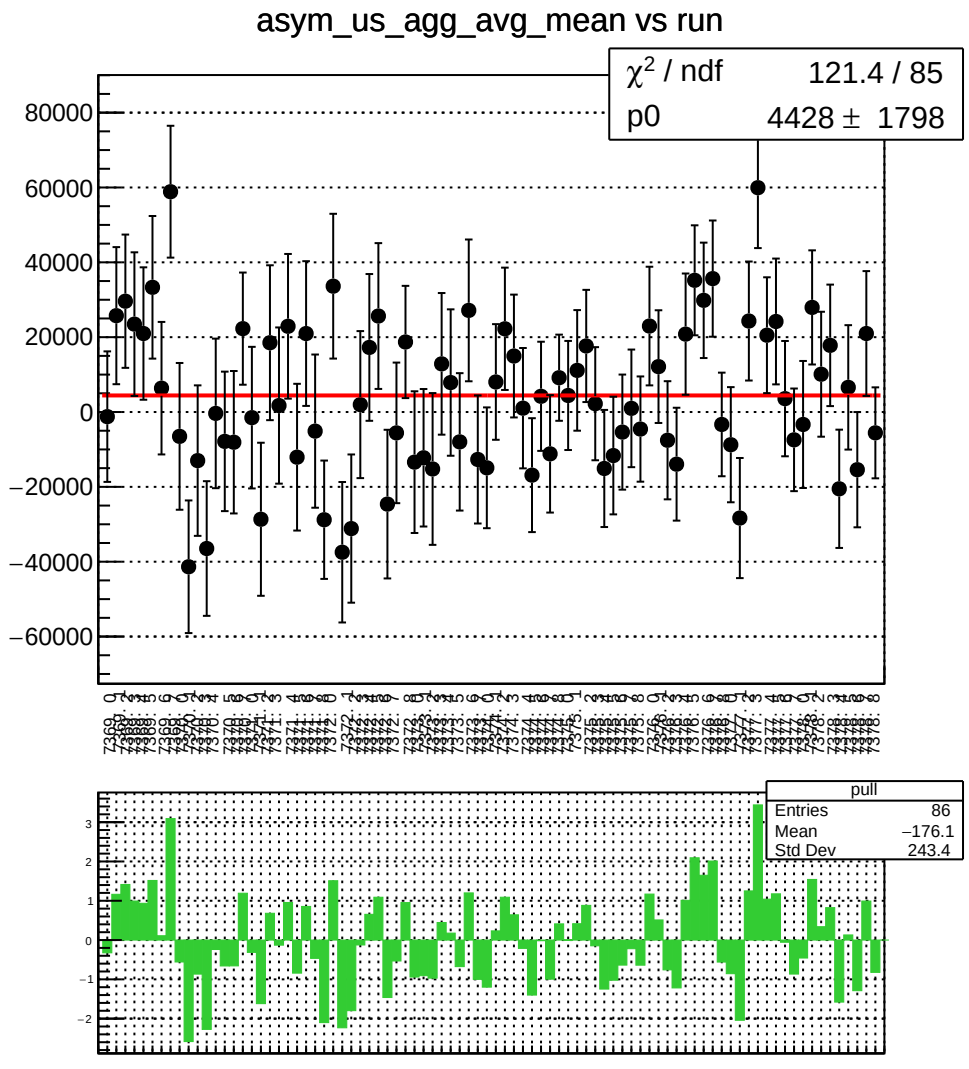

pull1D
Entries 86
Mean 0.003983
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

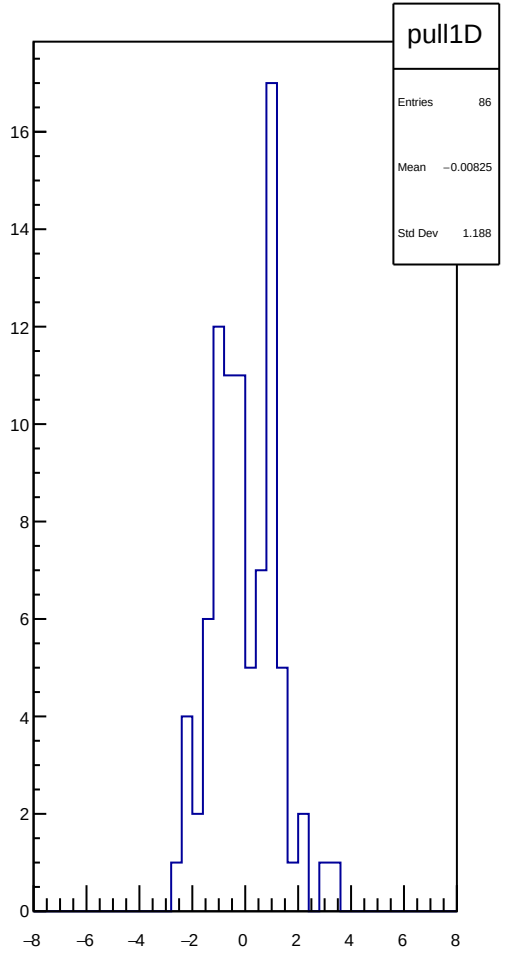

cor_asym_usl_rms vs run
χ² / ndf 99.37 / 85
p0 1117 ± 0.8748
1150
1140
1130
1120
1110
1100
1090
1080

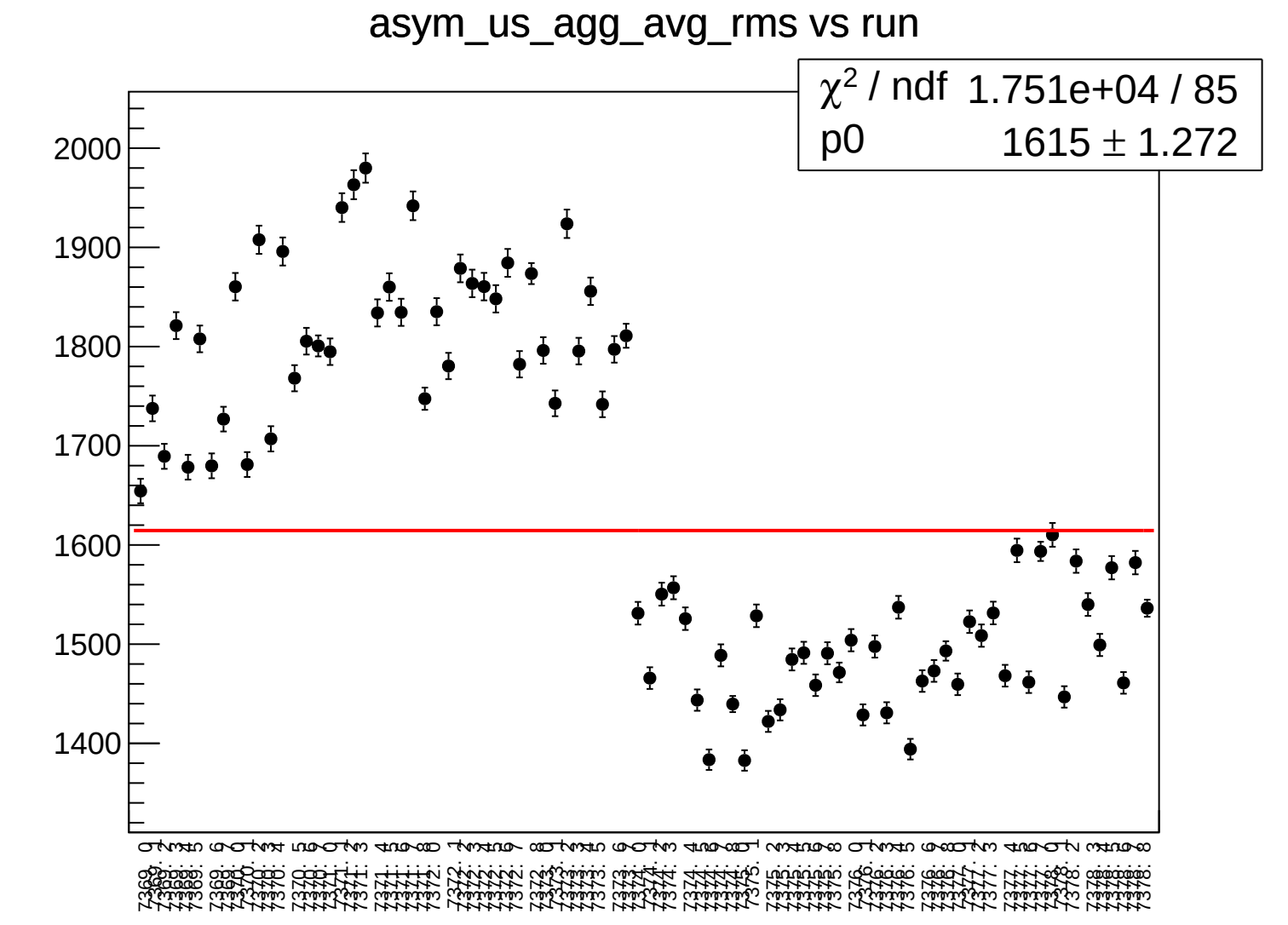

cor_asym_usr_mean vs run
χ² / ndf 113.8 / 85
p0 3282 ± 1219
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 361.6
Std Dev 309.6
2
1
0
−1
−2
−3
−4

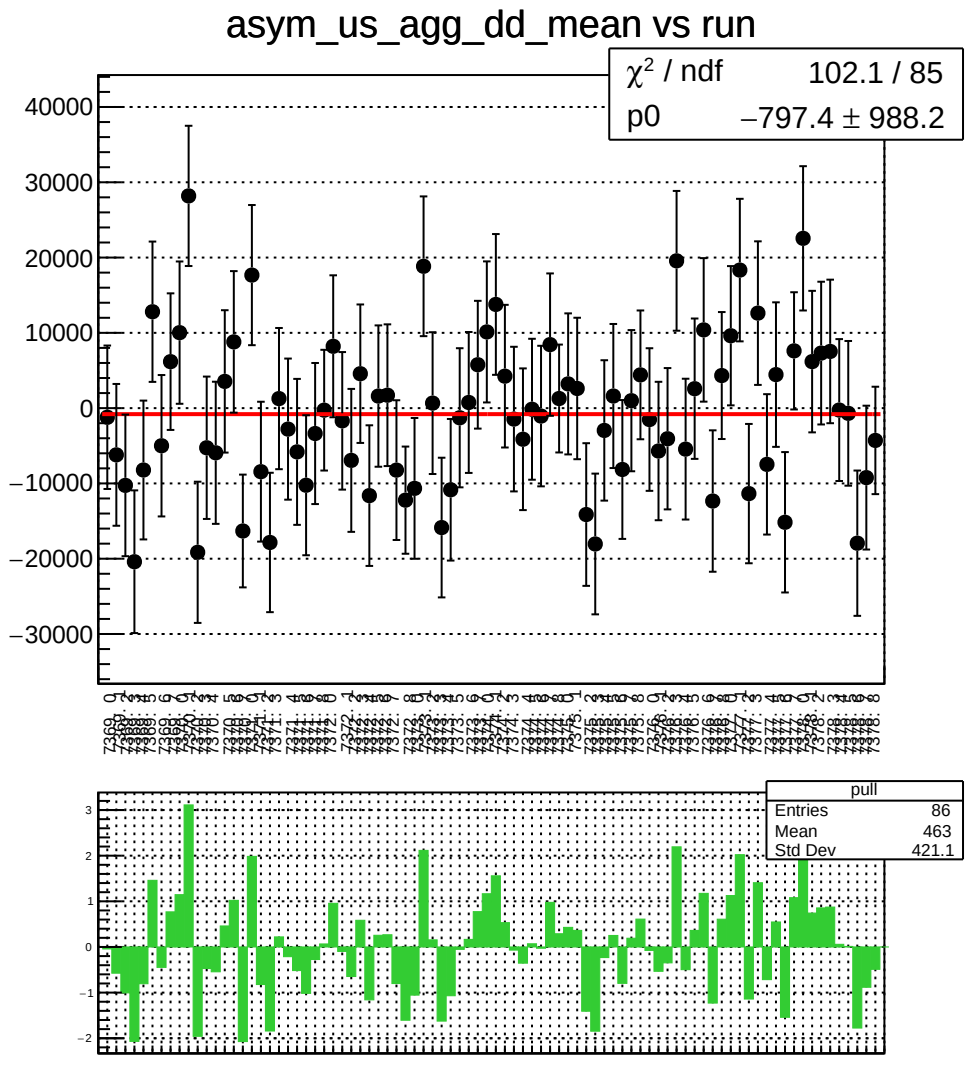

pull1D
Entries 86
Mean −0.003758
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

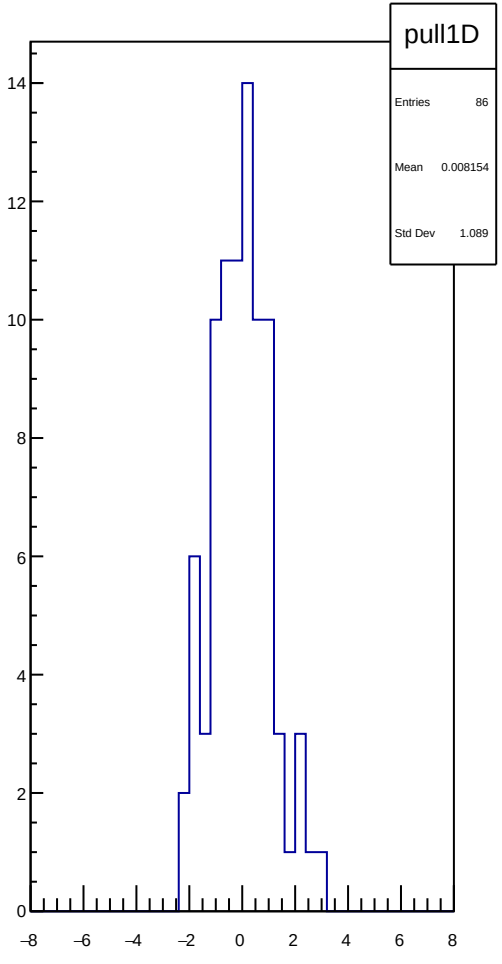

cor_asym_usr_rms vs run
χ² / ndf 107 / 85
p0 1100 ± 0.862
1140
1130
1120
1110
1100
1090
1080
1070
1060

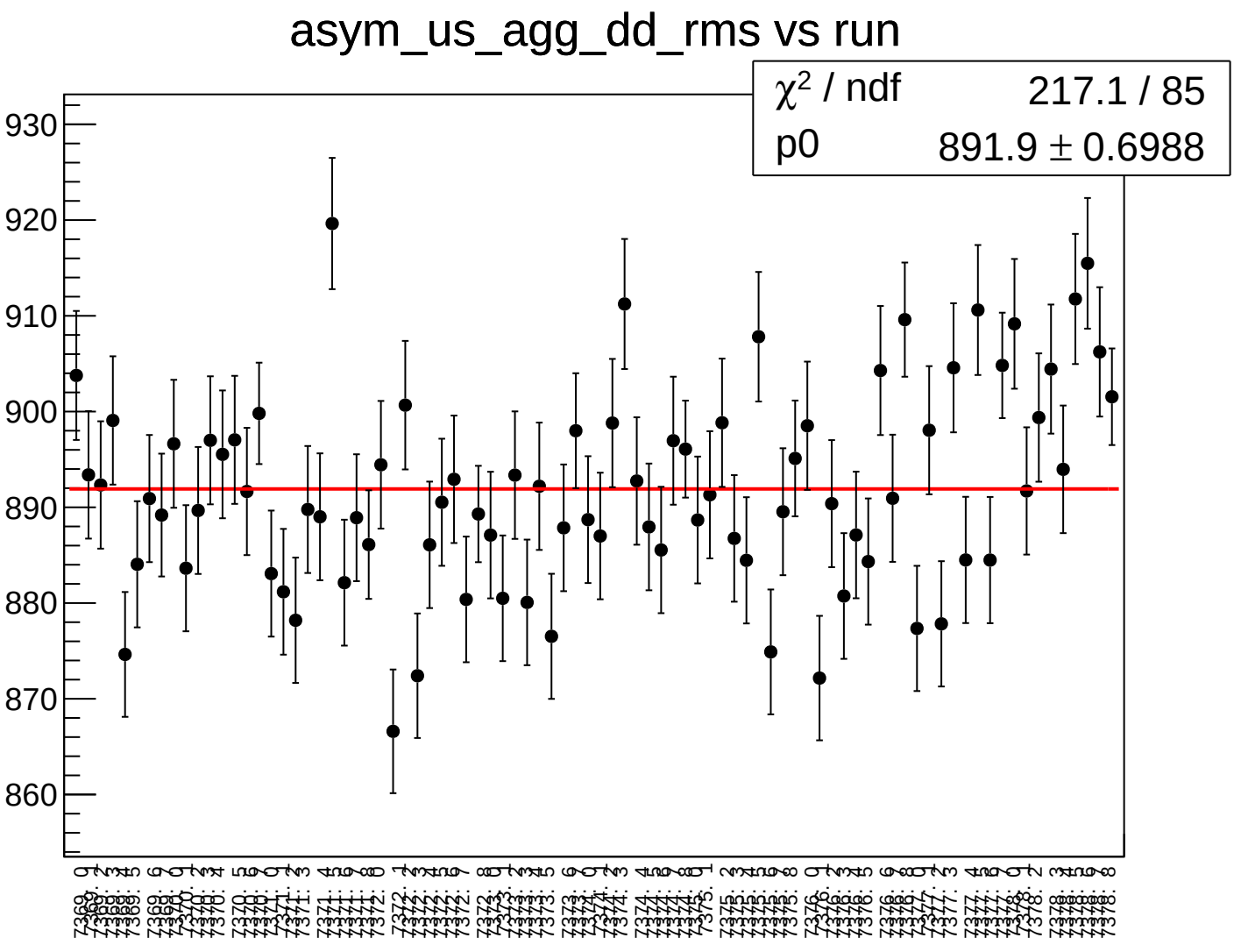

asym_us_agg_avg_mean vs run
χ² / ndf 121.4 / 85
p0 4428 ± 1798
pull
Entries 86
Mean −176.1
Std Dev 243.4

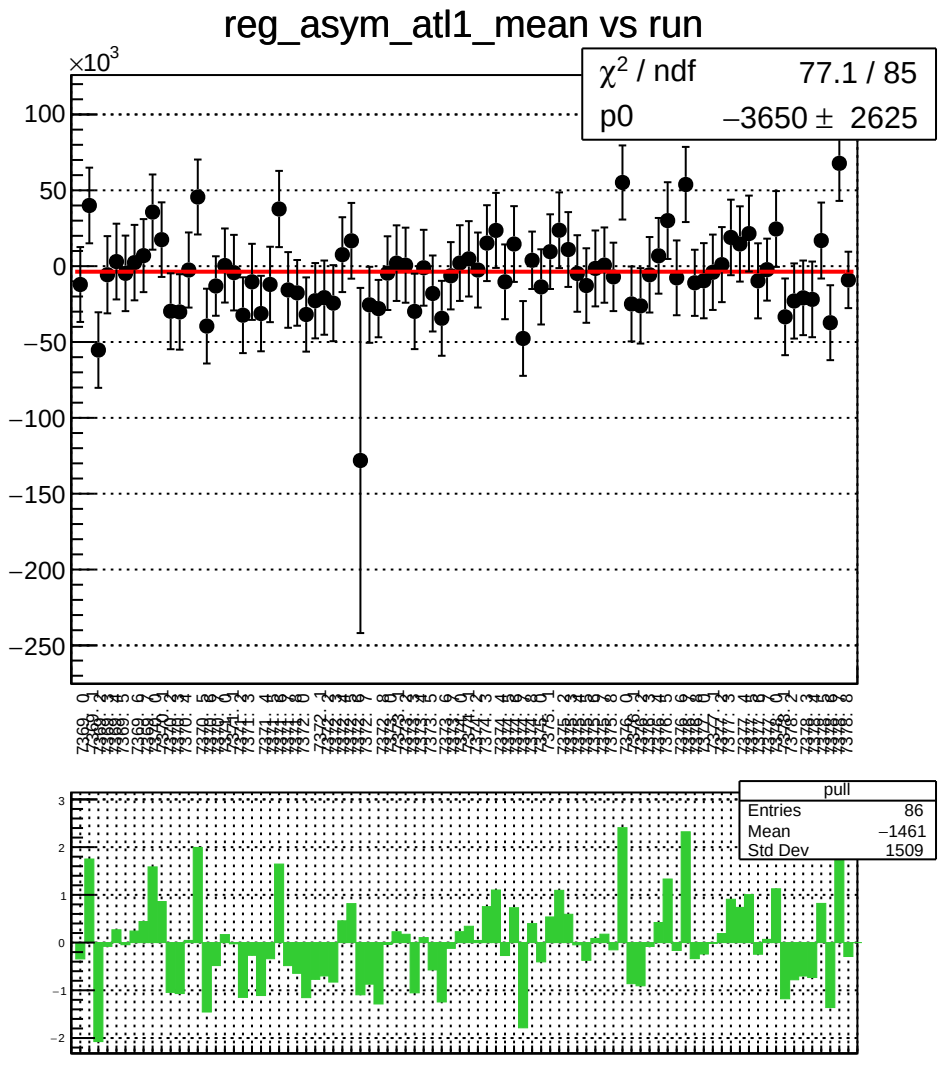

pull1D
Entries 86
Mean −0.00825
Std Dev 1.188

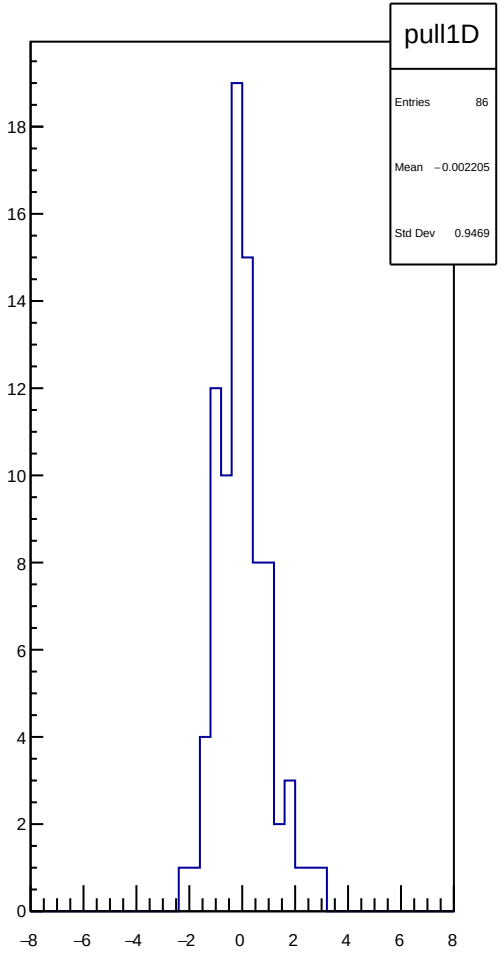

asym_us_agg_avg_rms vs run
χ² / ndf 1.751e+04 / 85
p0 1615 ± 1.272
2000
1900
1800
1700
1600
1500
1400

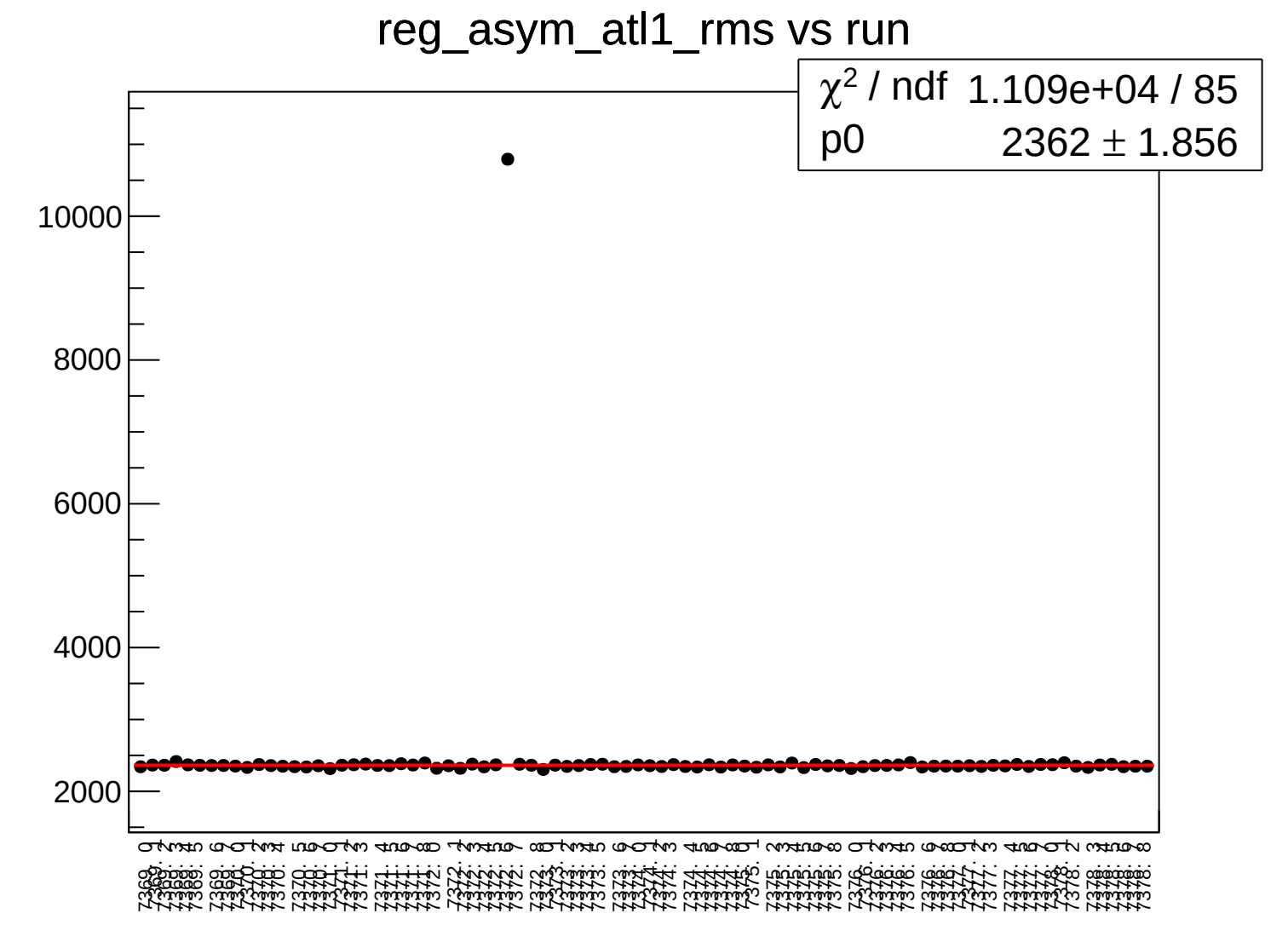

asym_us_agg_dd_mean vs run
χ² / ndf 102.1 / 85
p0 −797.4 ± 988.2
pull
Entries 86
Mean 463
Std Dev 421.1

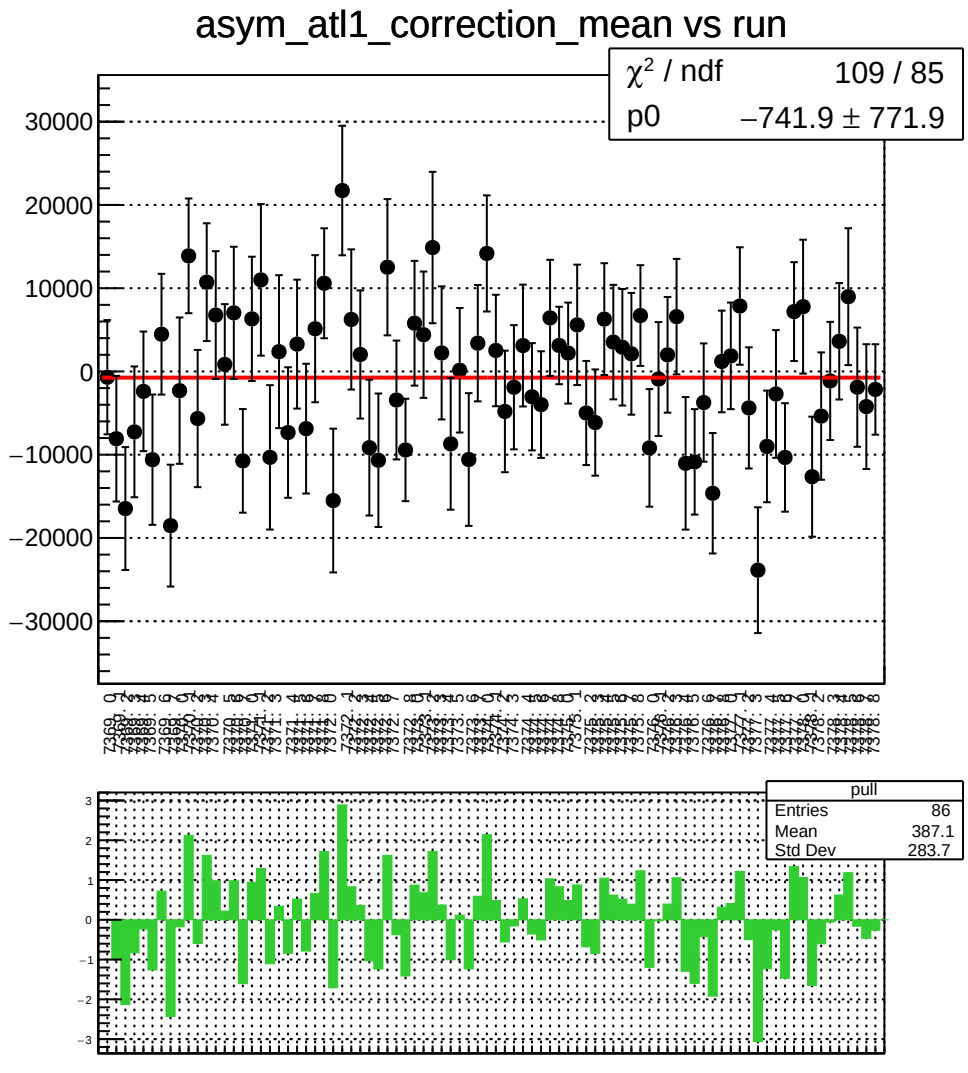

pull1D
Entries 86
Mean 0.008154
Std Dev 1.089

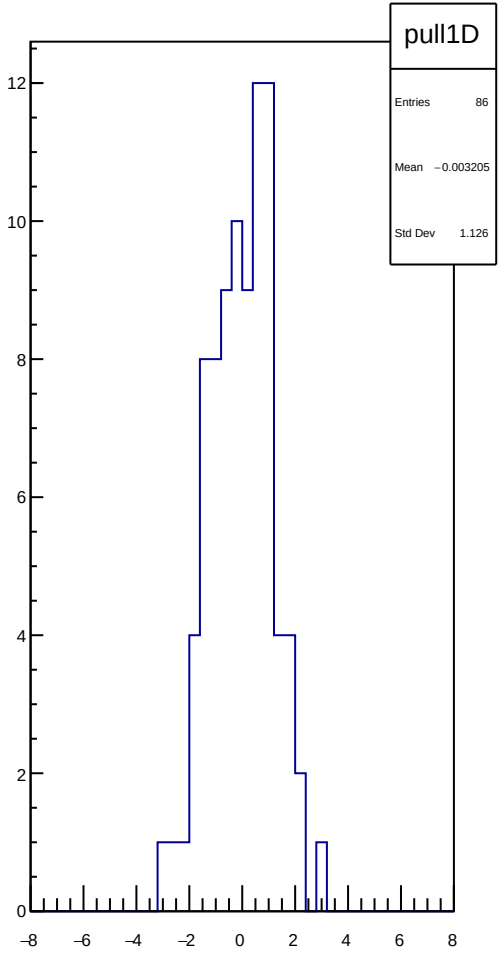

asym_us_agg_dd_rms vs run
χ^2 / ndf 217.1 / 85
p0 891.9 ± 0.6988
930
920
910
900
890
880
870
860

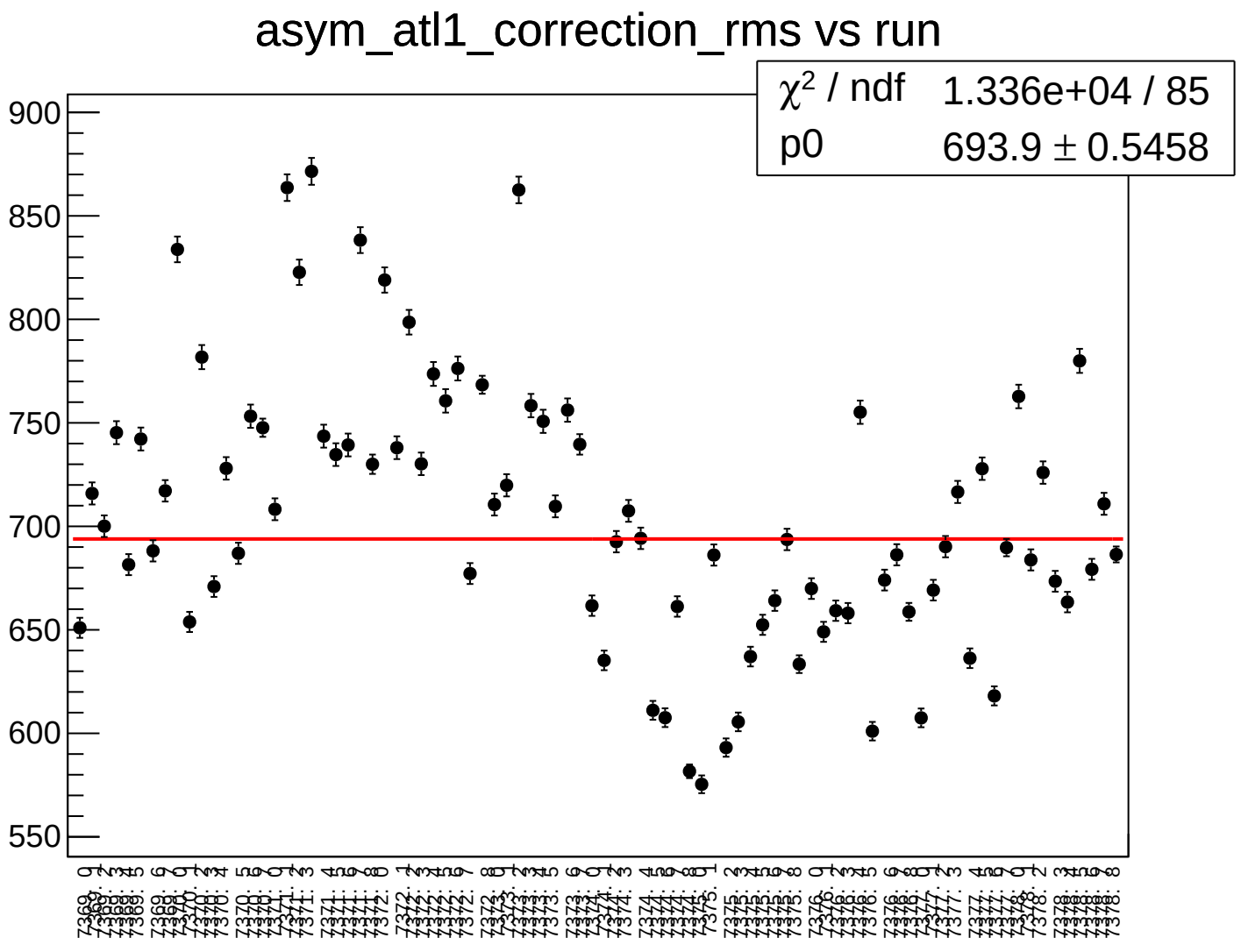

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 77.1 / 85
p0 −3650 ± 2625
pull
Entries 86
Mean −1461
Std Dev 1509

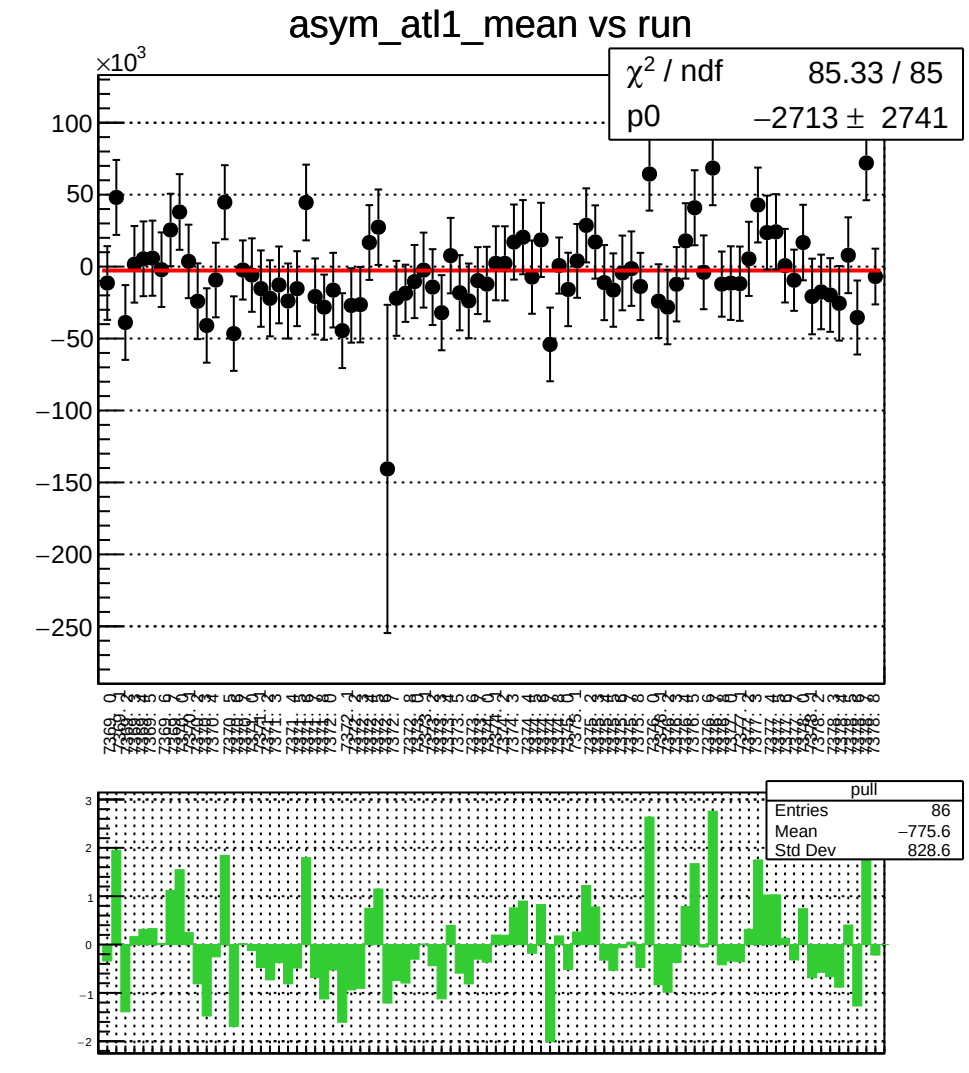

pull1D
Entries 86
Mean −0.002205
Std Dev 0.9469

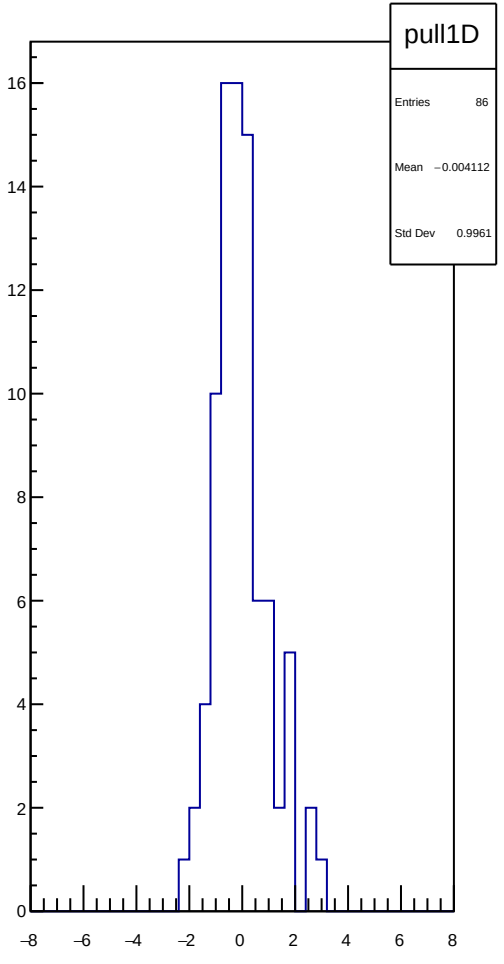

reg_asym_atl1_rms vs run
χ² / ndf 1.109e+04 / 85
p0 2362 ± 1.856
10000
8000
6000
4000
2000

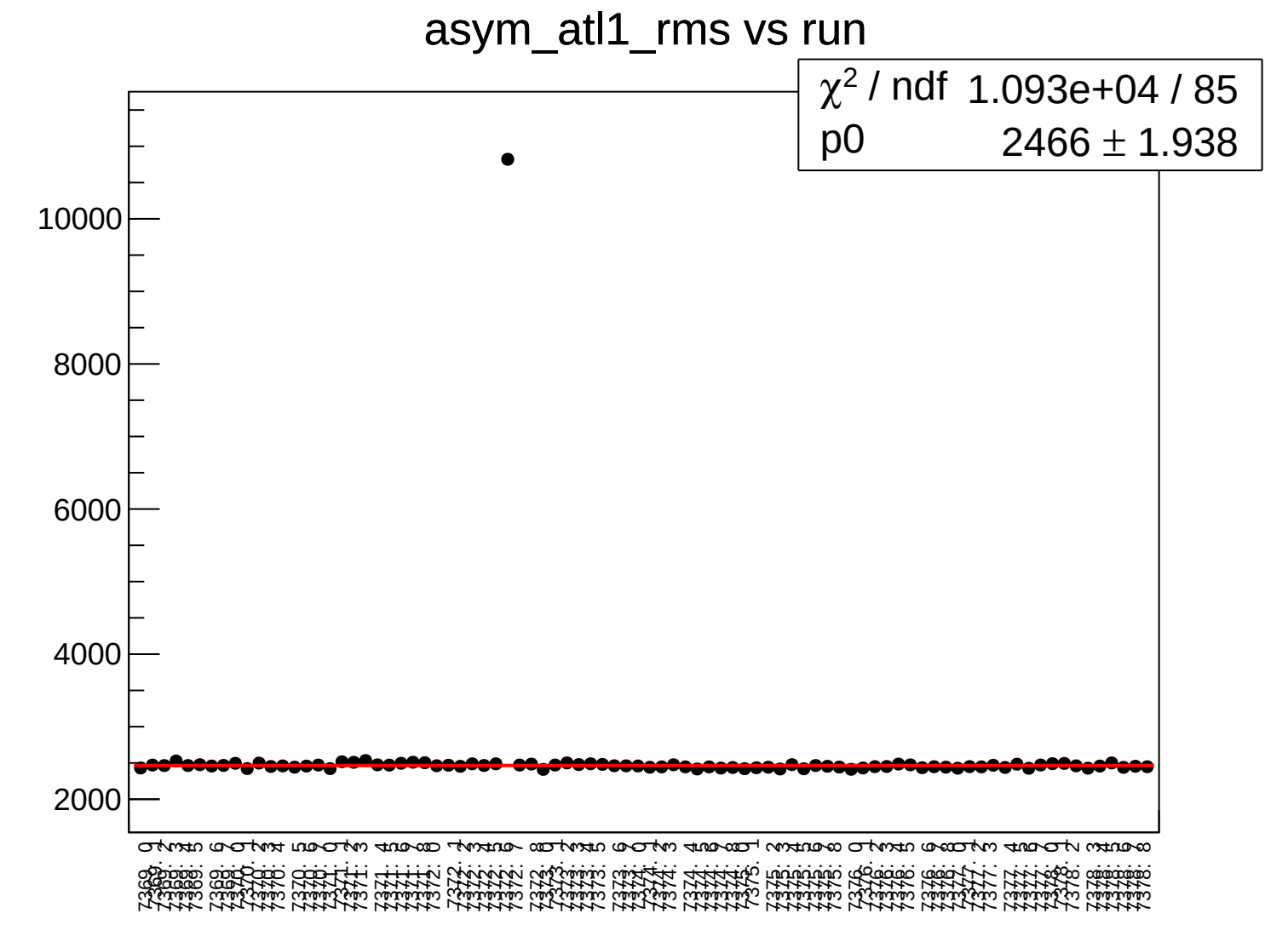

asym_atl1_correction_mean vs run
χ² / ndf 109 / 85
p0 −741.9 ± 771.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 387.1
Std Dev 283.7
3
2
1
0
−1
−2
−3

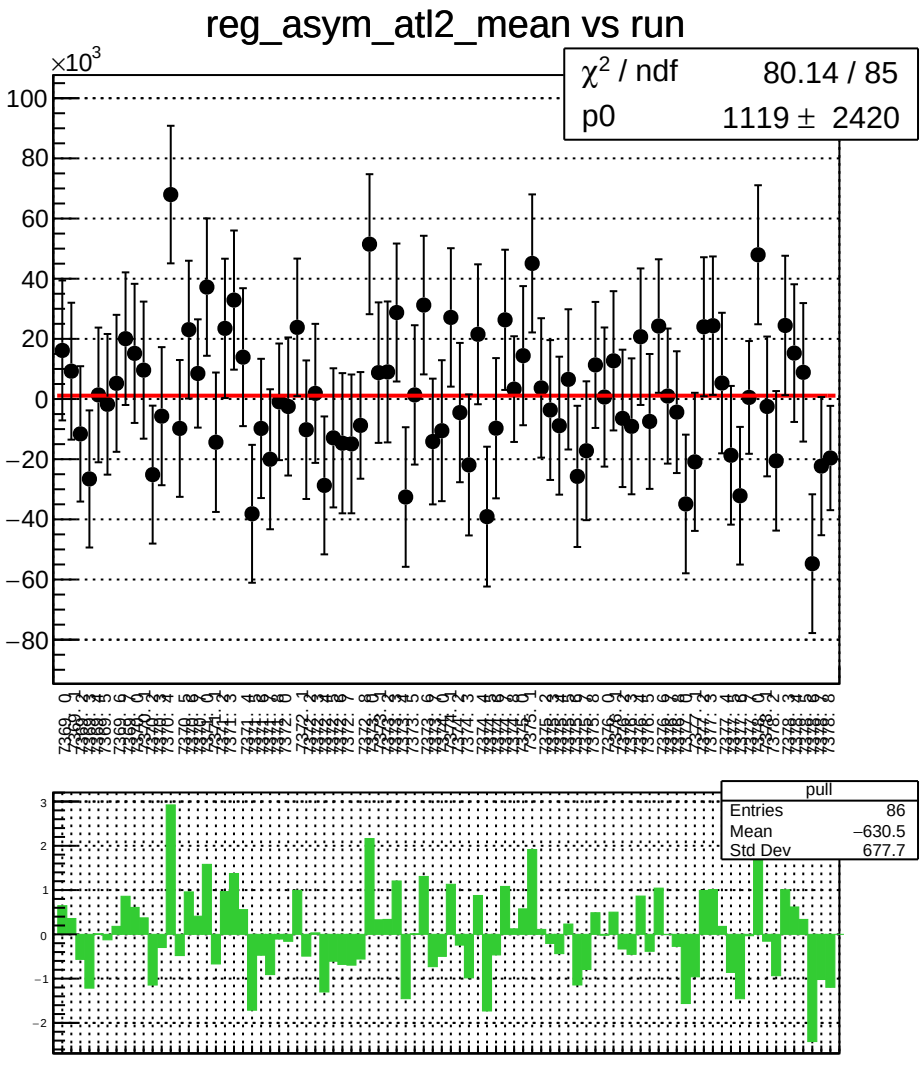

pull1D
Entries 86
Mean −0.003205
Std Dev 1.126
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

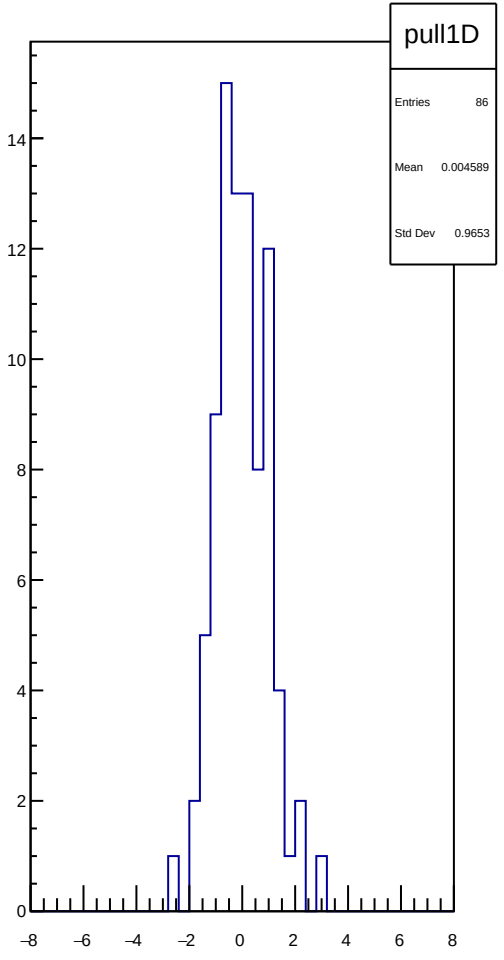

asym_atl1_correction_rms vs run
χ^2 / ndf 1.336e+04 / 85
p0 693.9 ± 0.5458
900
850
800
750
700
650
600
550

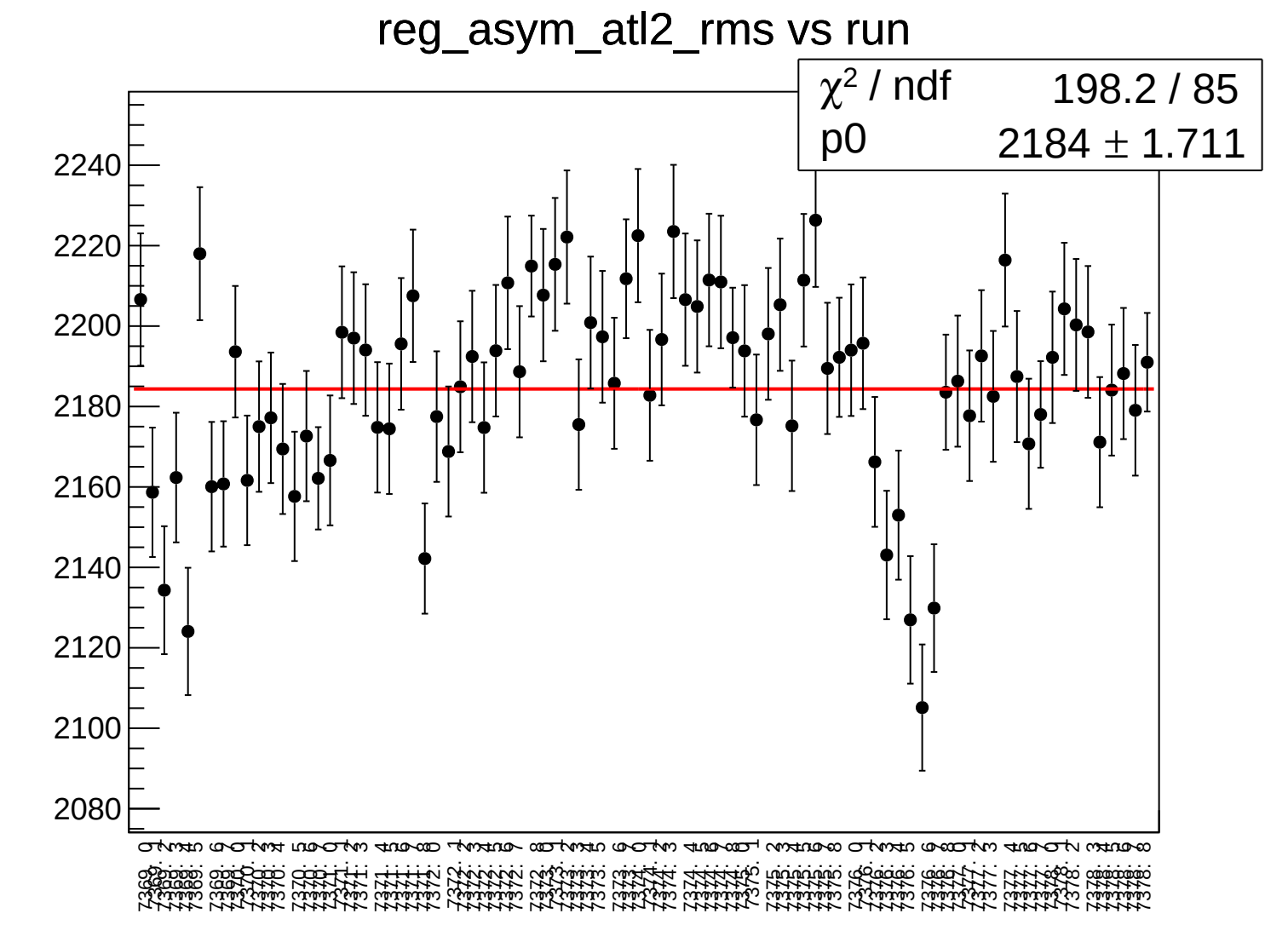

asym_atl1_mean vs run
×10^3
χ^2 / ndf 85.33 / 85
p0 −2713 ± 2741
pull
Entries 86
Mean −775.6
Std Dev 828.6

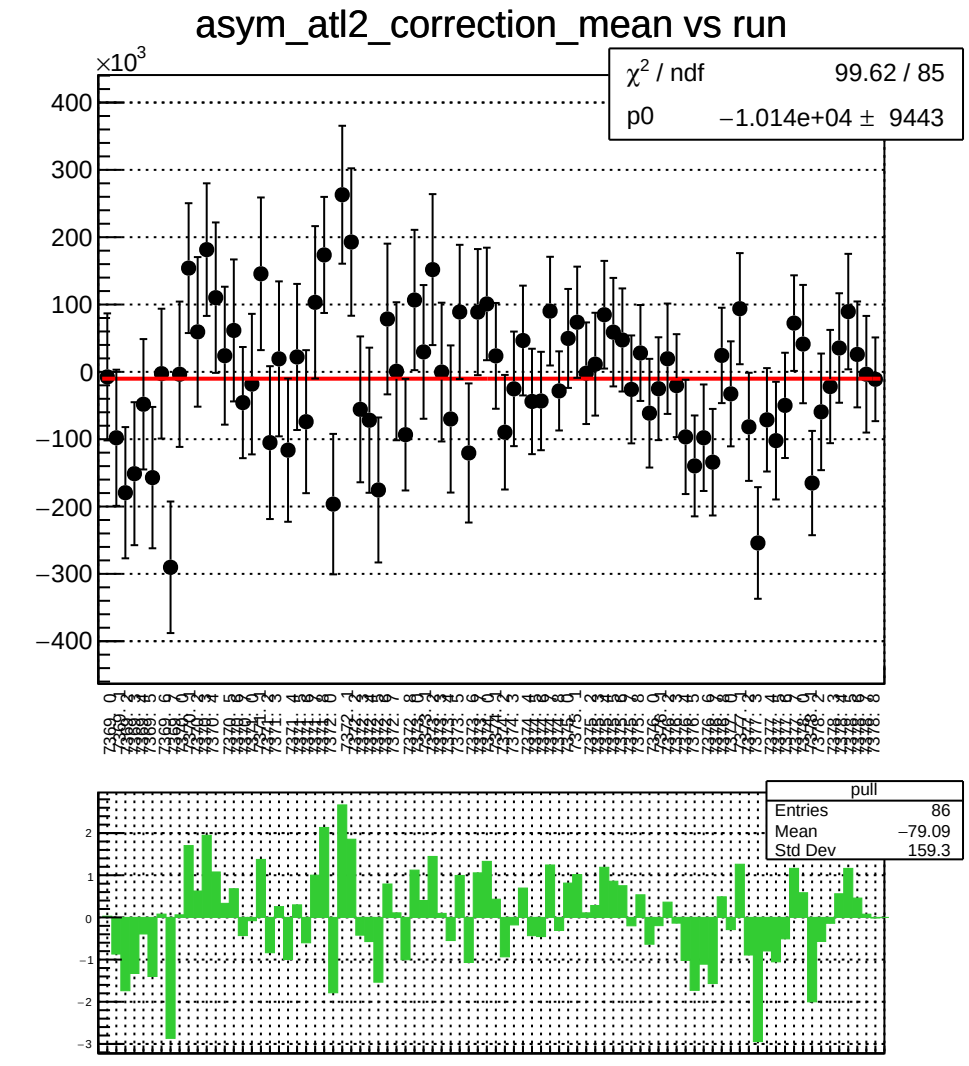

pull1D
Entries 86
Mean −0.004112
Std Dev 0.9961

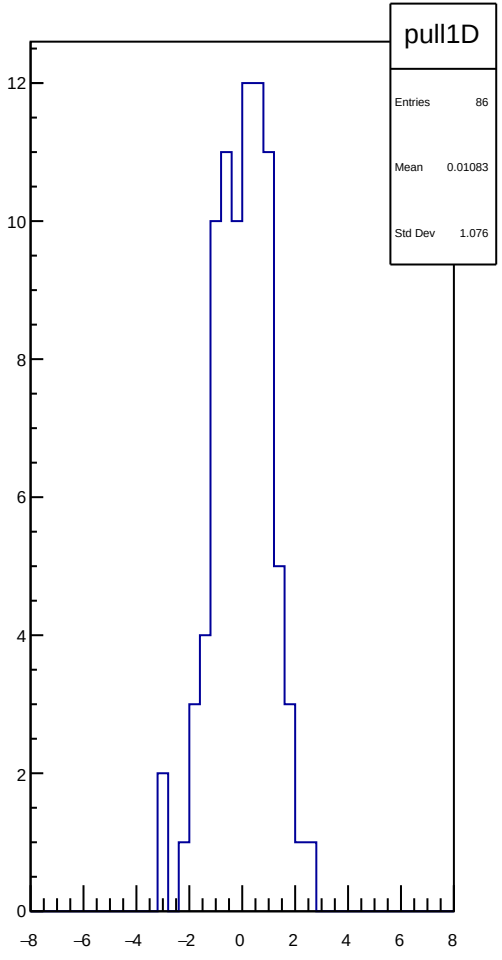

asym_atl1_rms vs run
χ² / ndf 1.093e+04 / 85
p0 2466 ± 1.938
10000
8000
6000
4000
2000

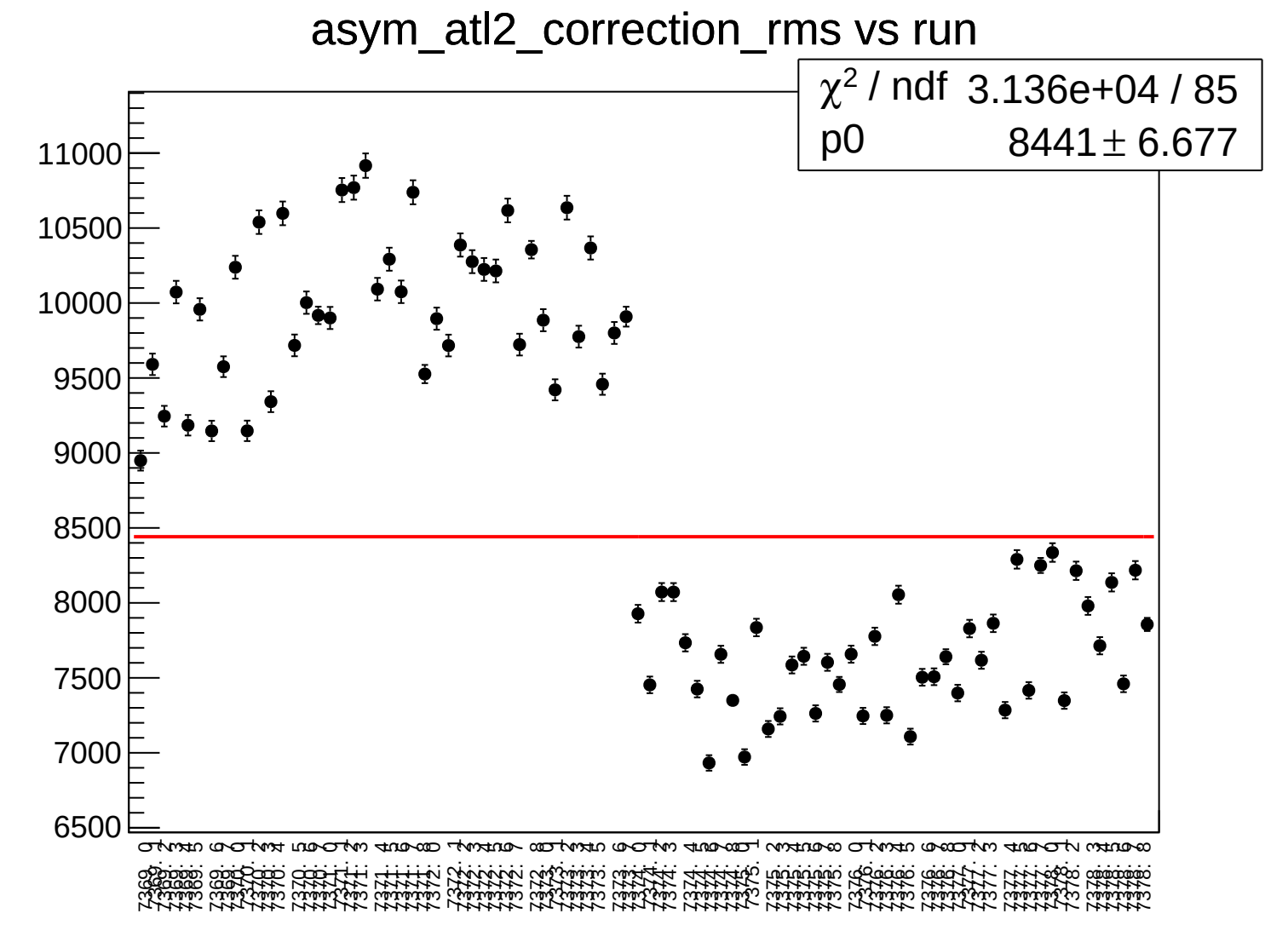

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 80.14 / 85
p0 1119 ± 2420
pull
Entries 86
Mean −630.5
Std Dev 677.7

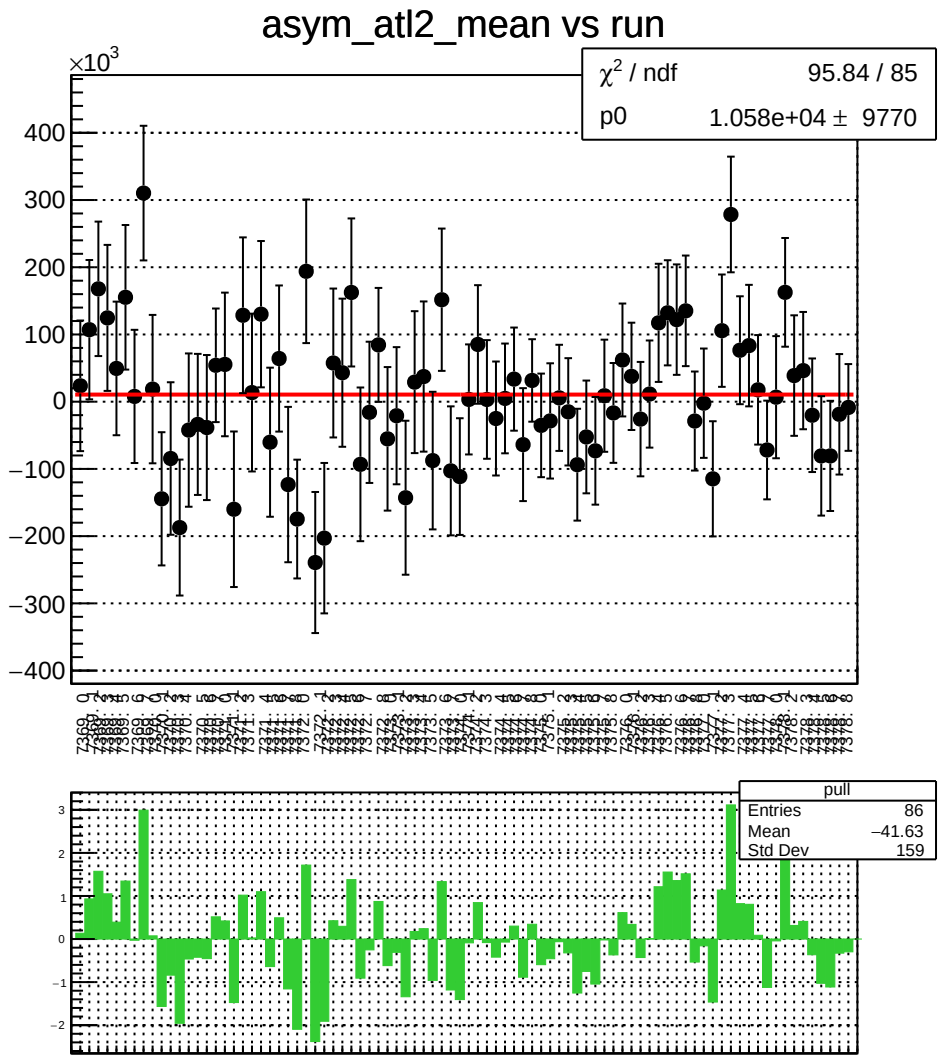

pull1D
Entries 86
Mean 0.004589
Std Dev 0.9653

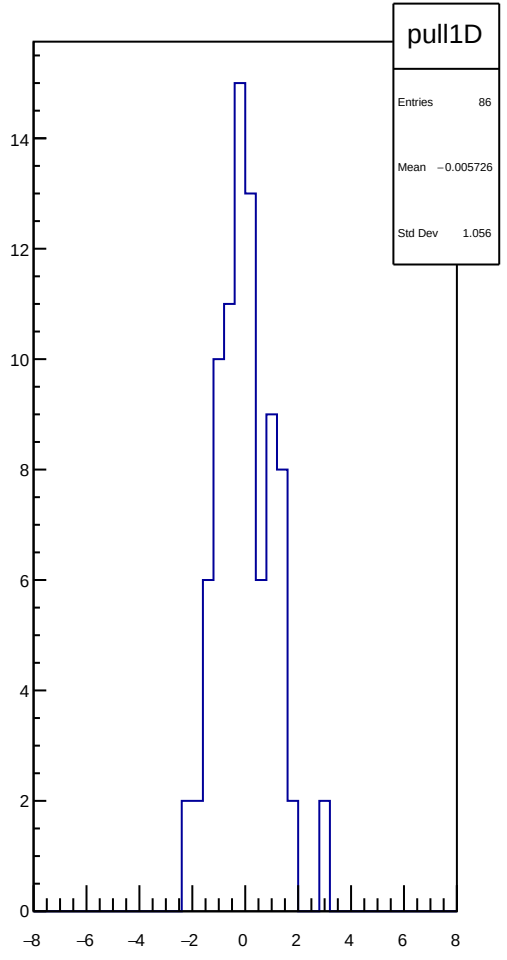

reg_asym_atl2_rms vs run
χ^2 / ndf 198.2 / 85
p0 2184 ± 1.711
2240
2220
2200
2180
2160
2140
2120
2100
2080

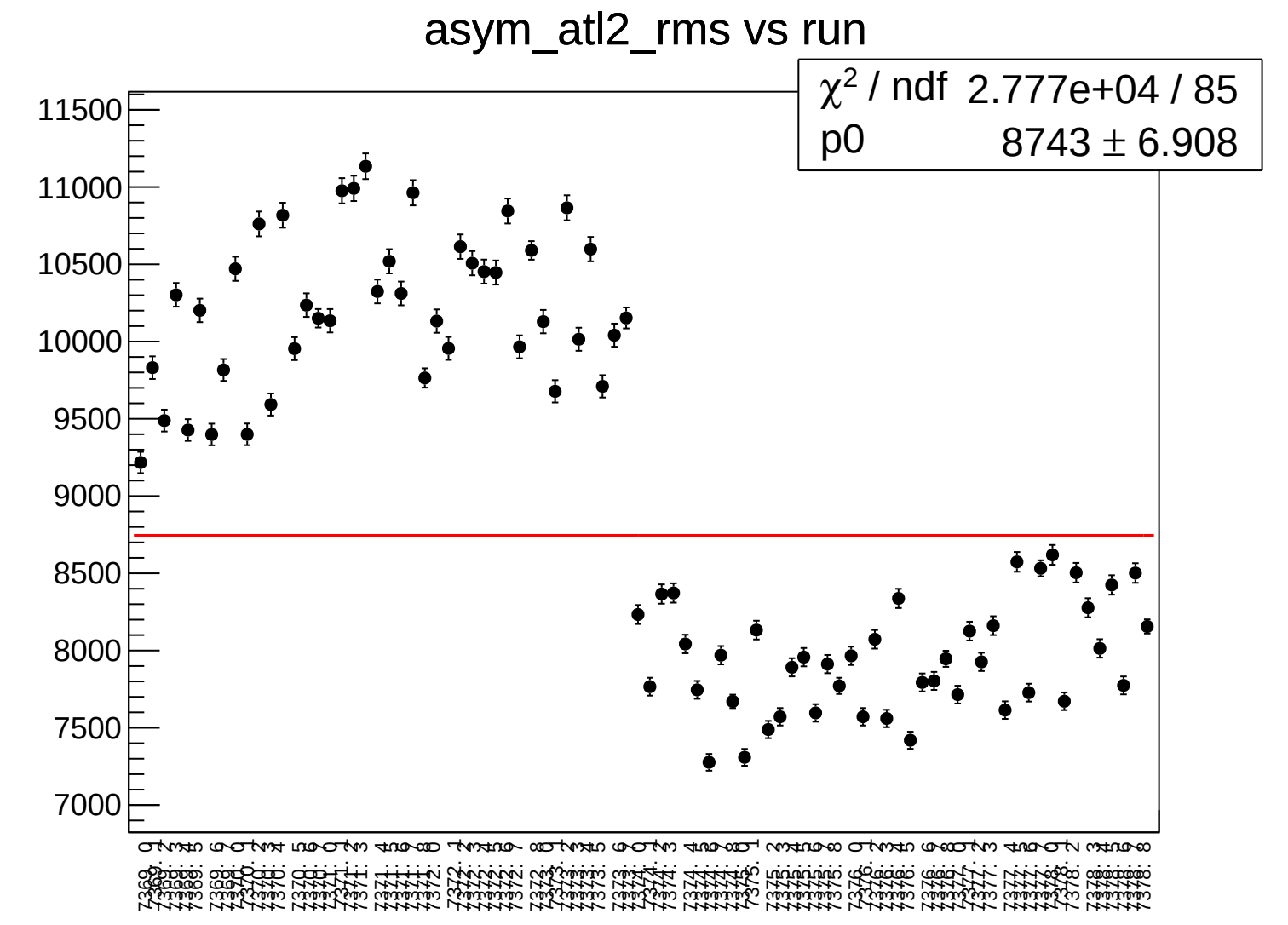

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 99.62 / 85
p0 −1.014e+04 ± 9443
pull
Entries 86
Mean −79.09
Std Dev 159.3

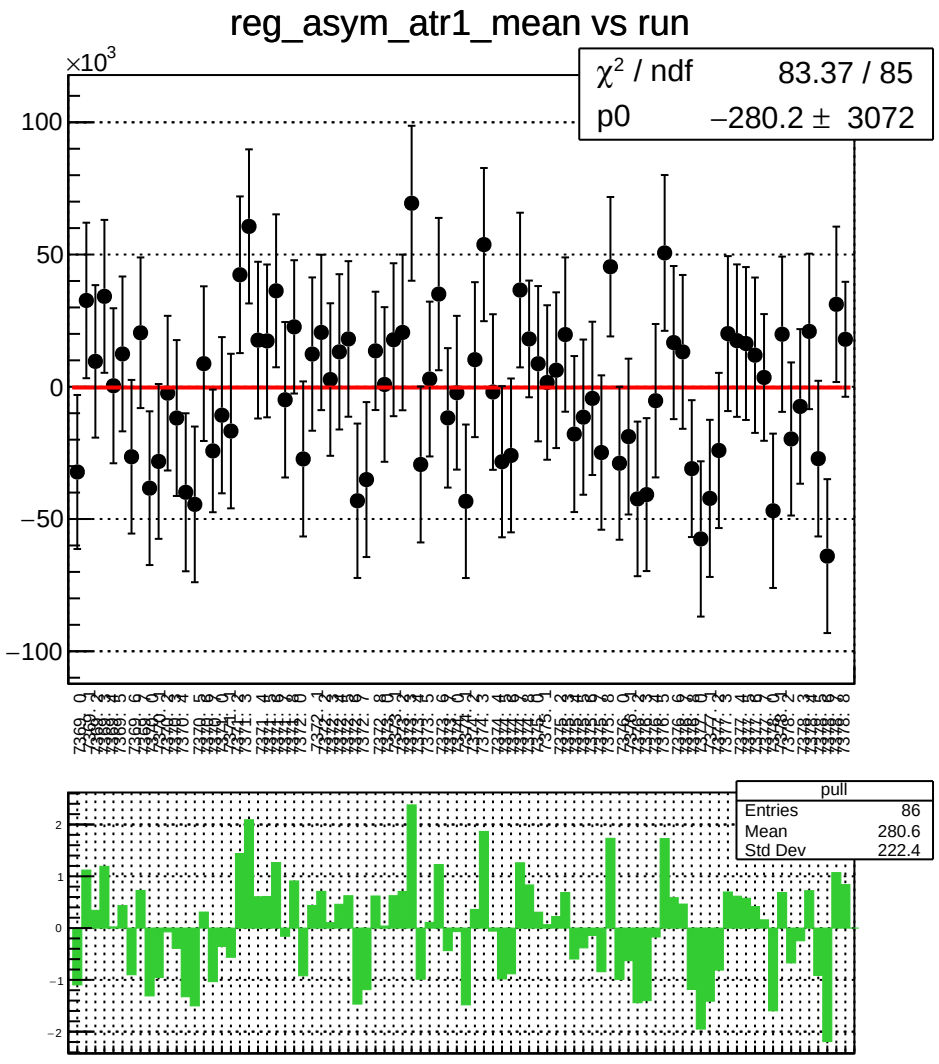

pull1D
Entries 86
Mean 0.01083
Std Dev 1.076

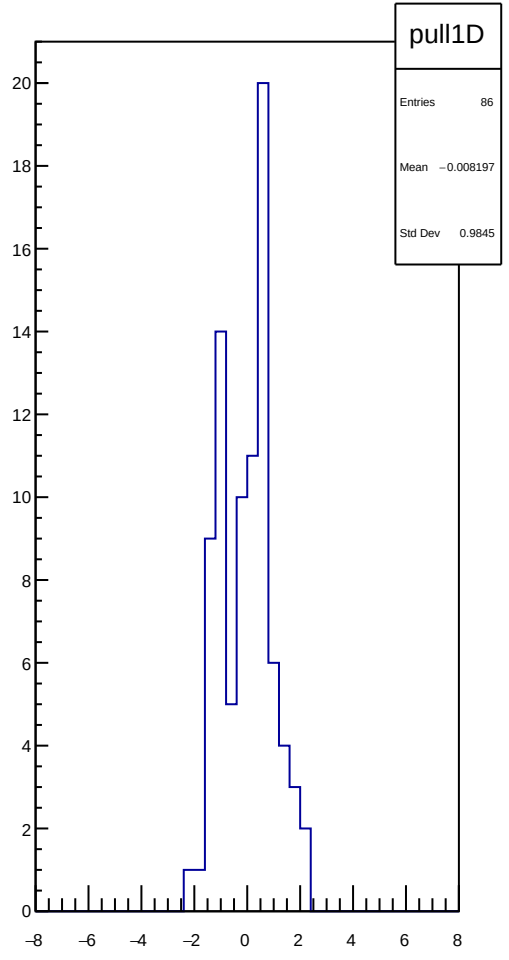

asym_atl2_correction_rms vs run
χ² / ndf 3.136e+04 / 85
p0 8441 ± 6.677
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

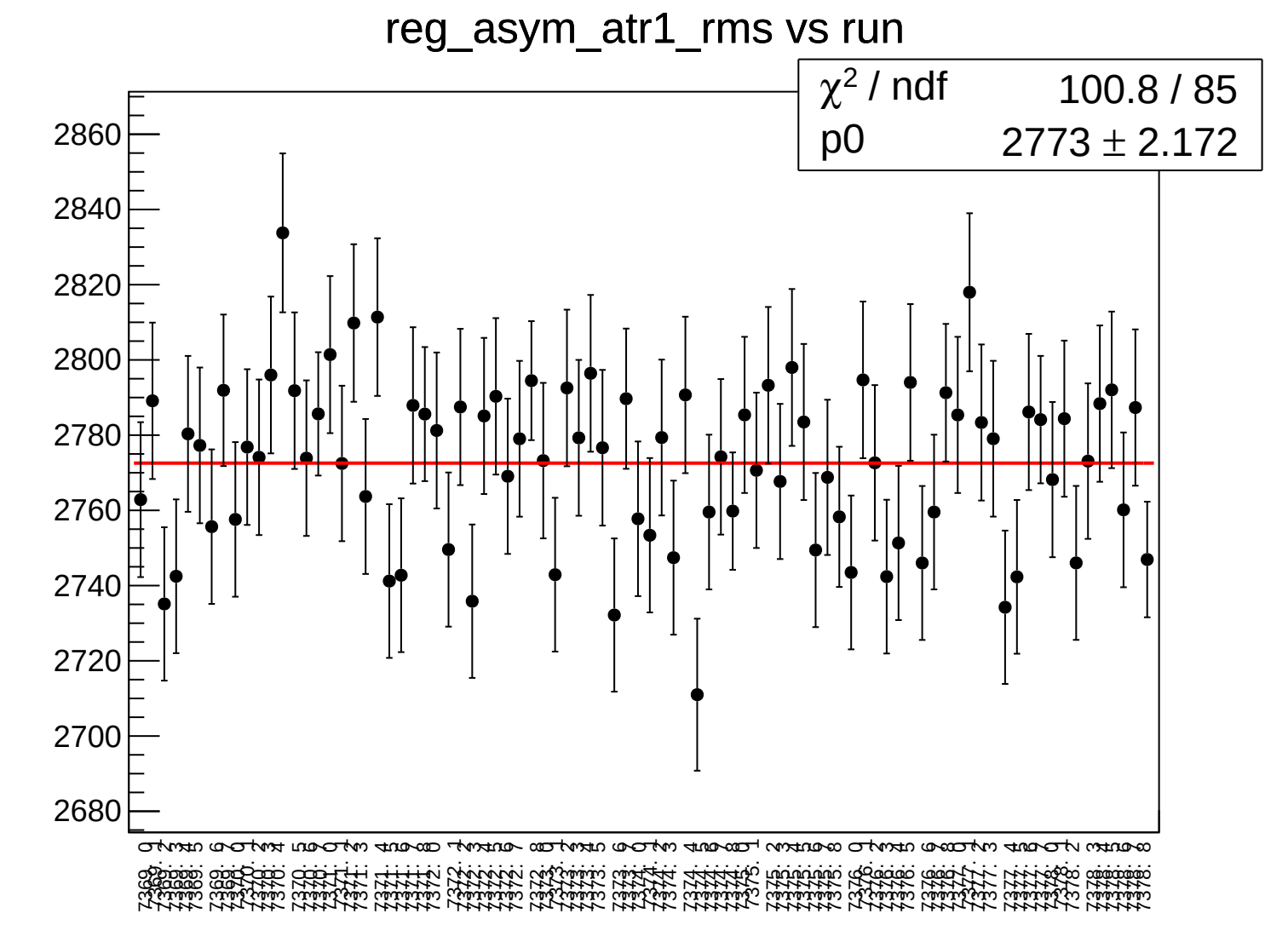

asym_atl2_mean vs run
×10^3
χ² / ndf 95.84 / 85
p0 1.058e+04 ± 9770
pull
Entries 86
Mean −41.63
Std Dev 159

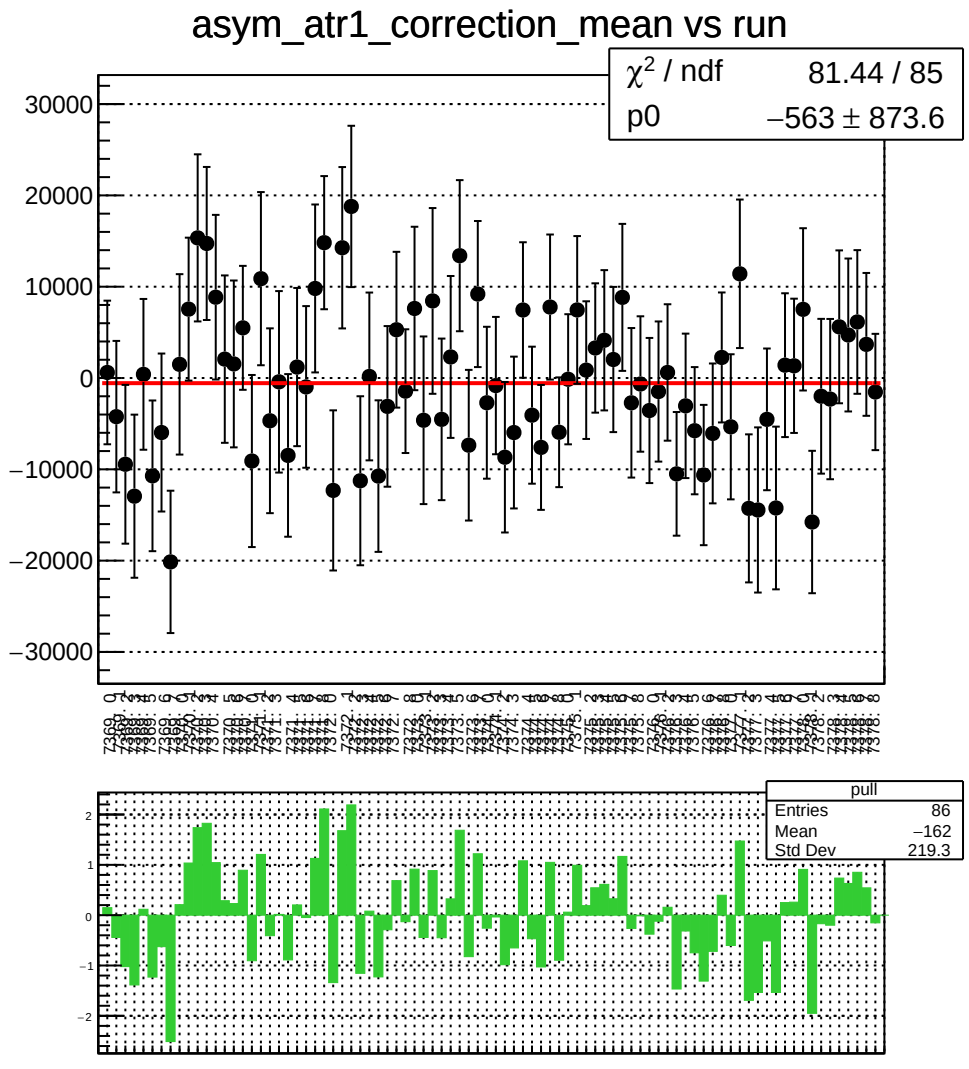

pull1D
Entries 86
Mean −0.005726
Std Dev 1.056

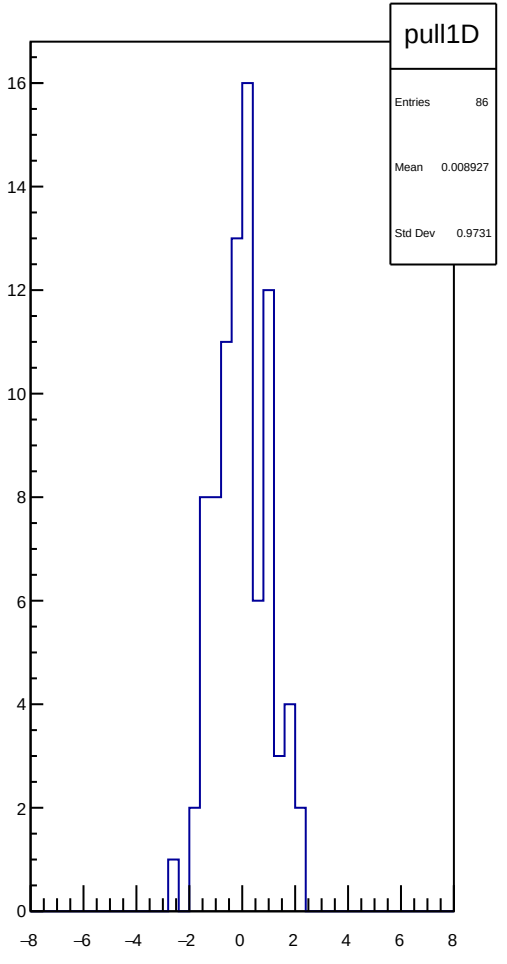

asym_atl2_rms vs run
χ² / ndf 2.777e+04 / 85
p0 8743 ± 6.908
11500
11000
10500
10000
9500
9000
8500
8000
7500
7000

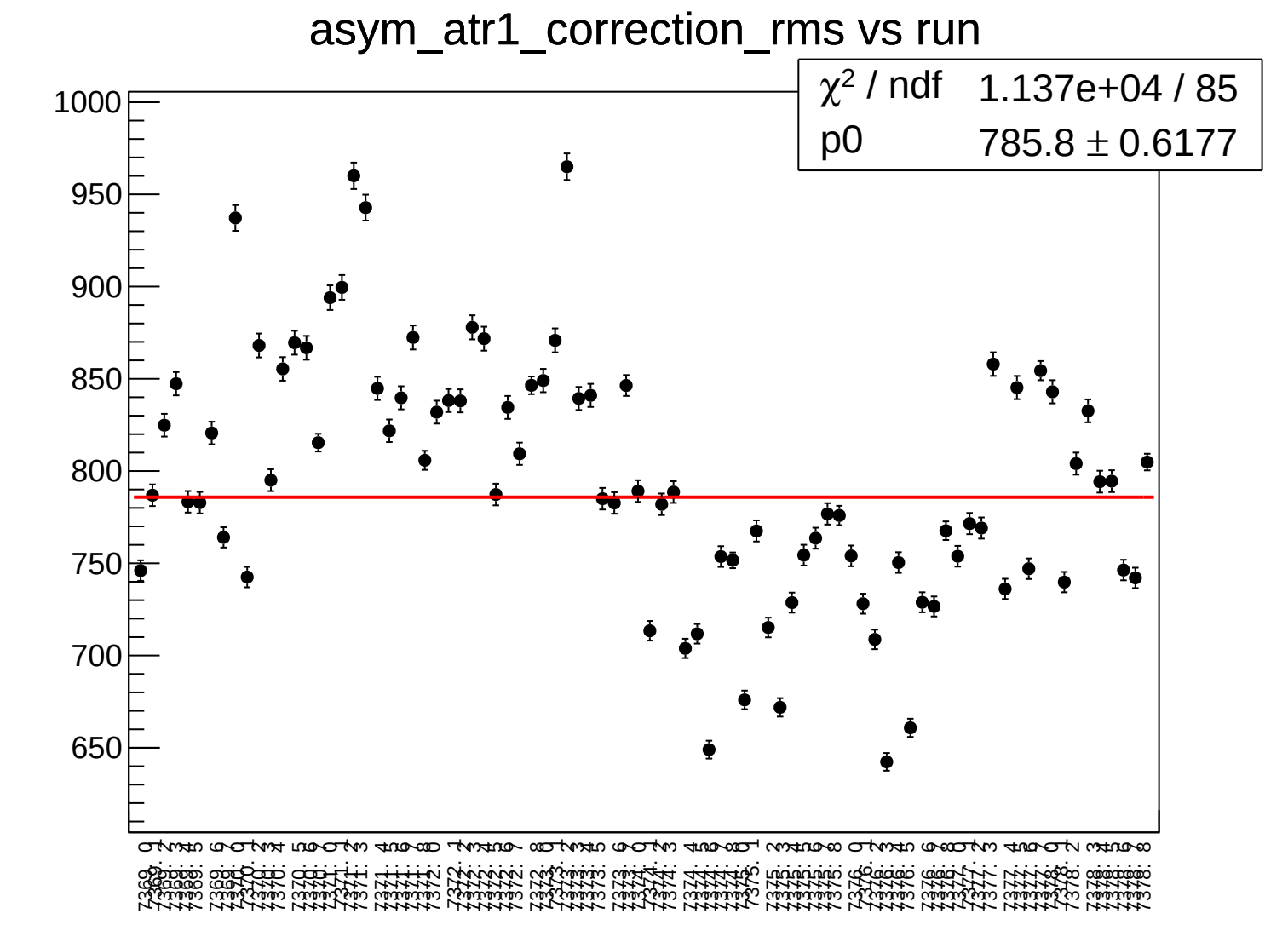

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 83.37 / 85
p0 −280.2 ± 3072
100
50
0
−50
−100
pull
Entries 86
Mean 280.6
Std Dev 222.4
2
1
0
−1
−2

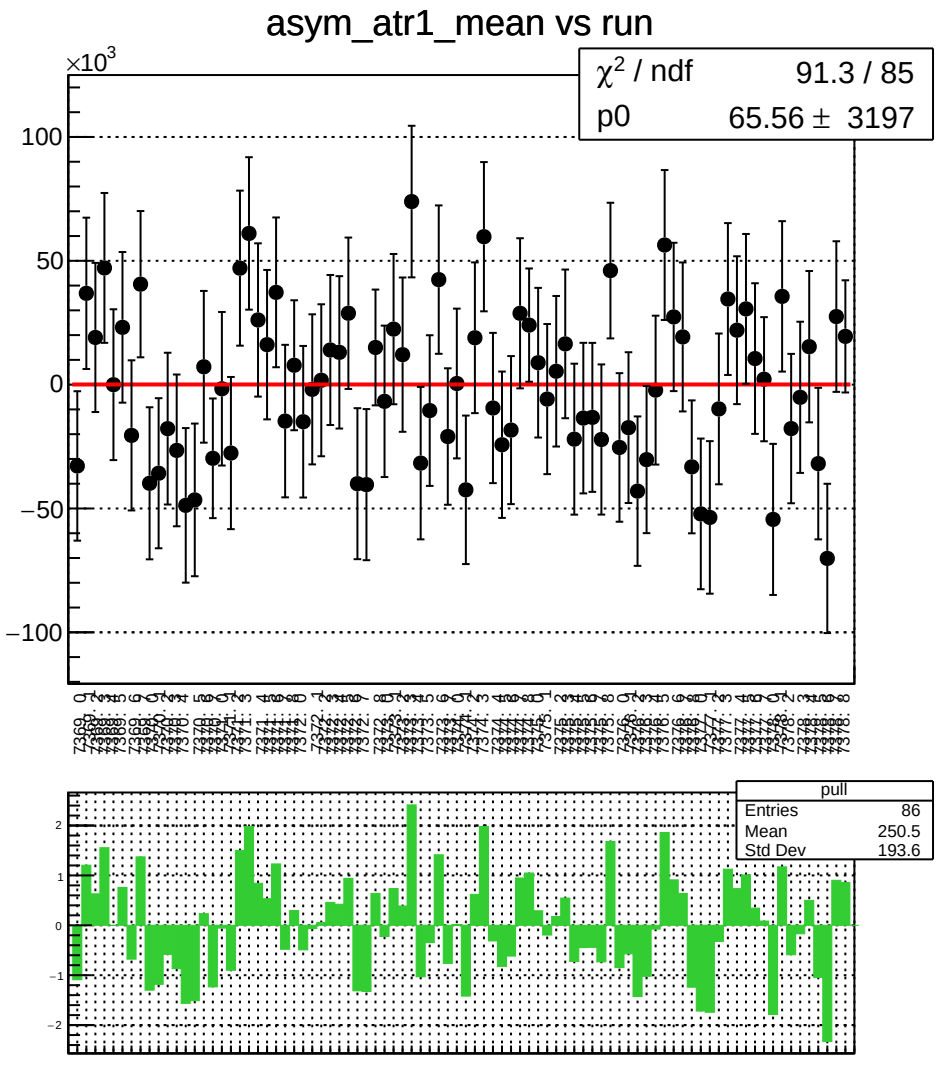

pull1D
Entries 86
Mean −0.008197
Std Dev 0.9845
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

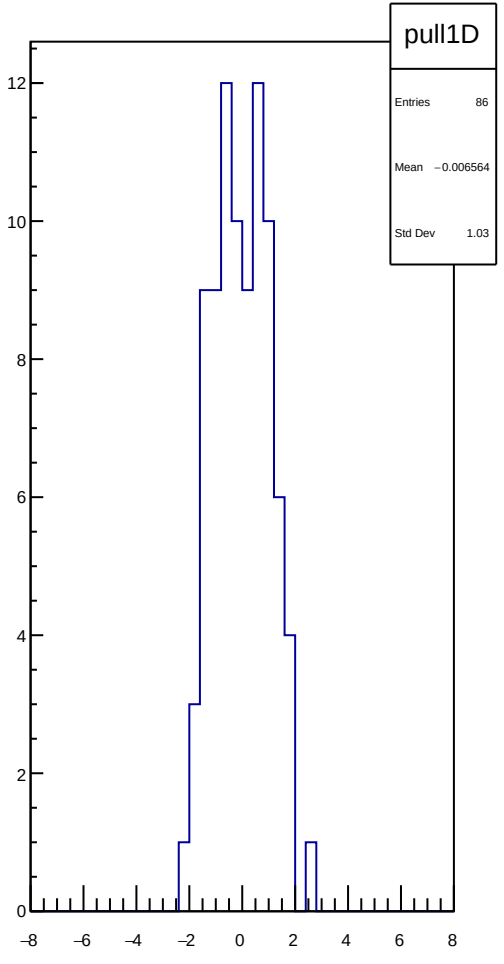

reg_asym_atr1_rms vs run
χ^2 / ndf 100.8 / 85
p0 2773 ± 2.172
2860
2840
2820
2800
2780
2760
2740
2720
2700
2680

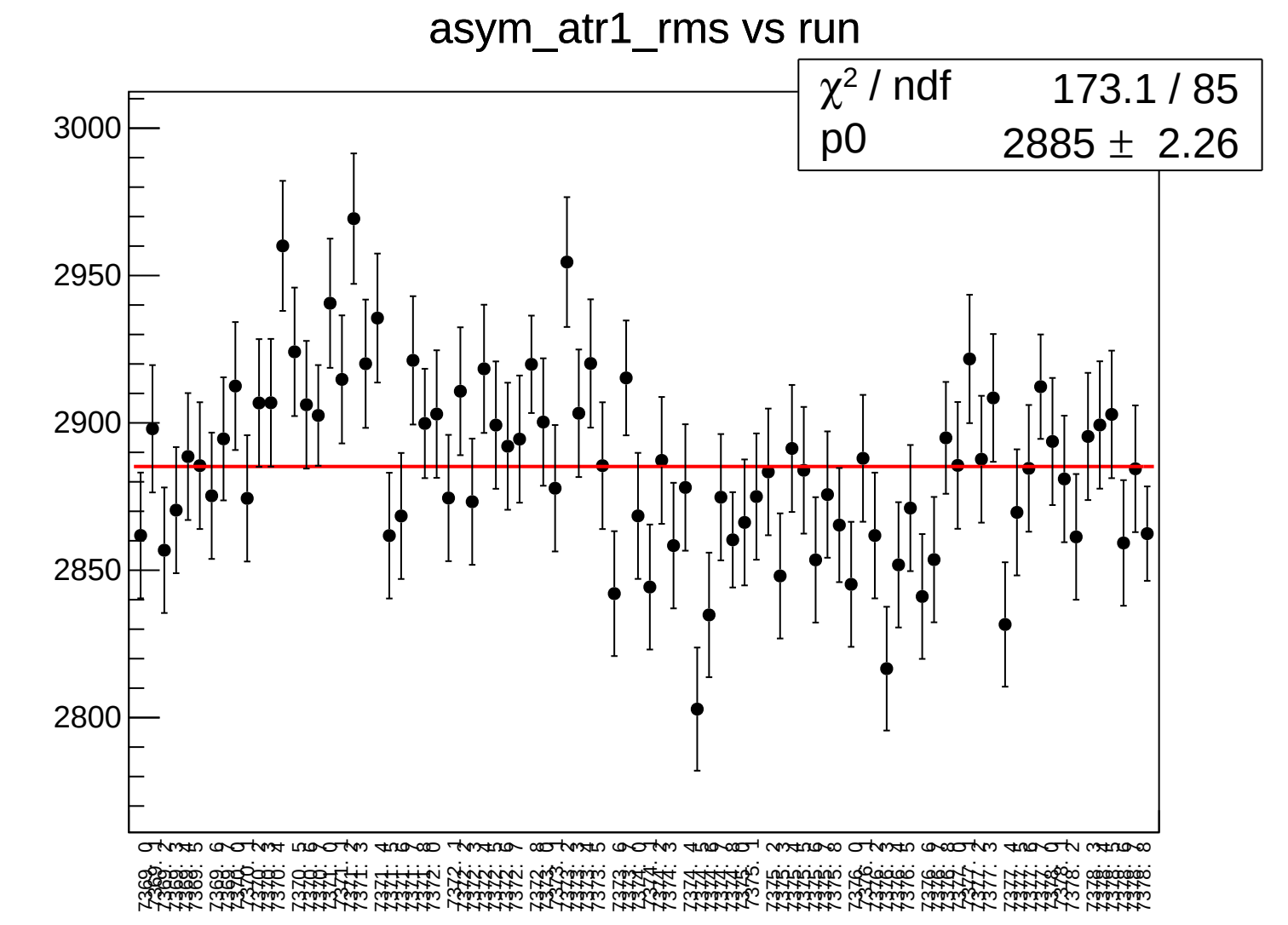

asym_atr1_correction_mean vs run
χ² / ndf 81.44 / 85
p0 −563 ± 873.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −162
Std Dev 219.3
2
1
0
−1
−2

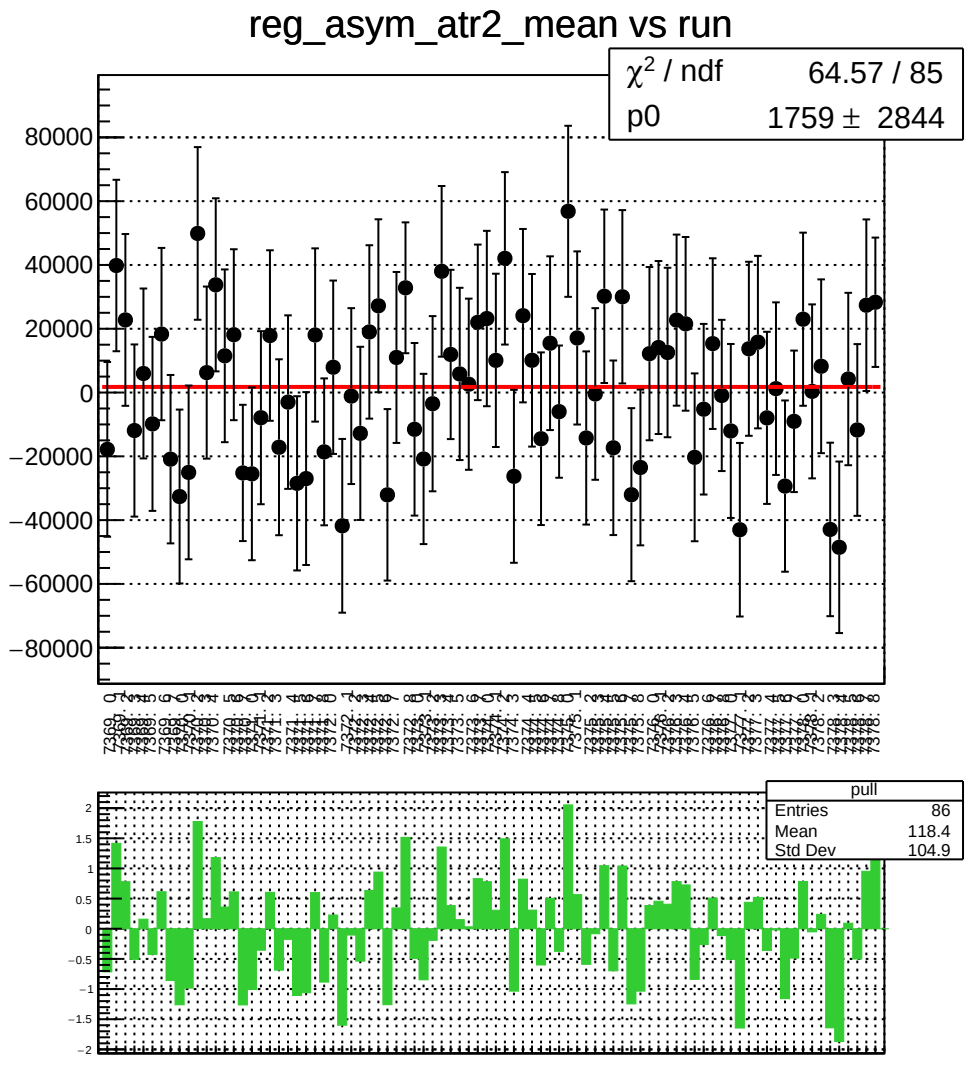

pull1D
Entries 86
Mean 0.008927
Std Dev 0.9731
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

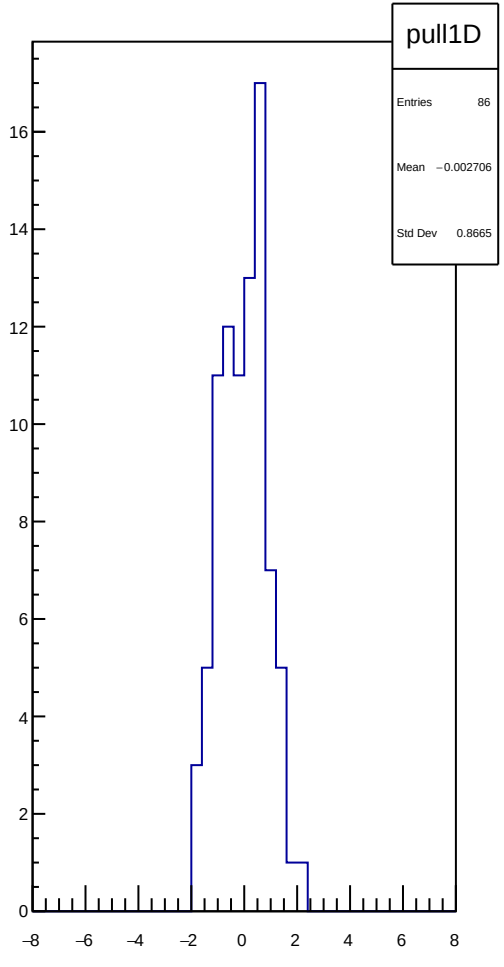

asym_atr1_correction_rms vs run
χ² / ndf 1.137e+04 / 85
p0 785.8 ± 0.6177
1000
950
900
850
800
750
700
650

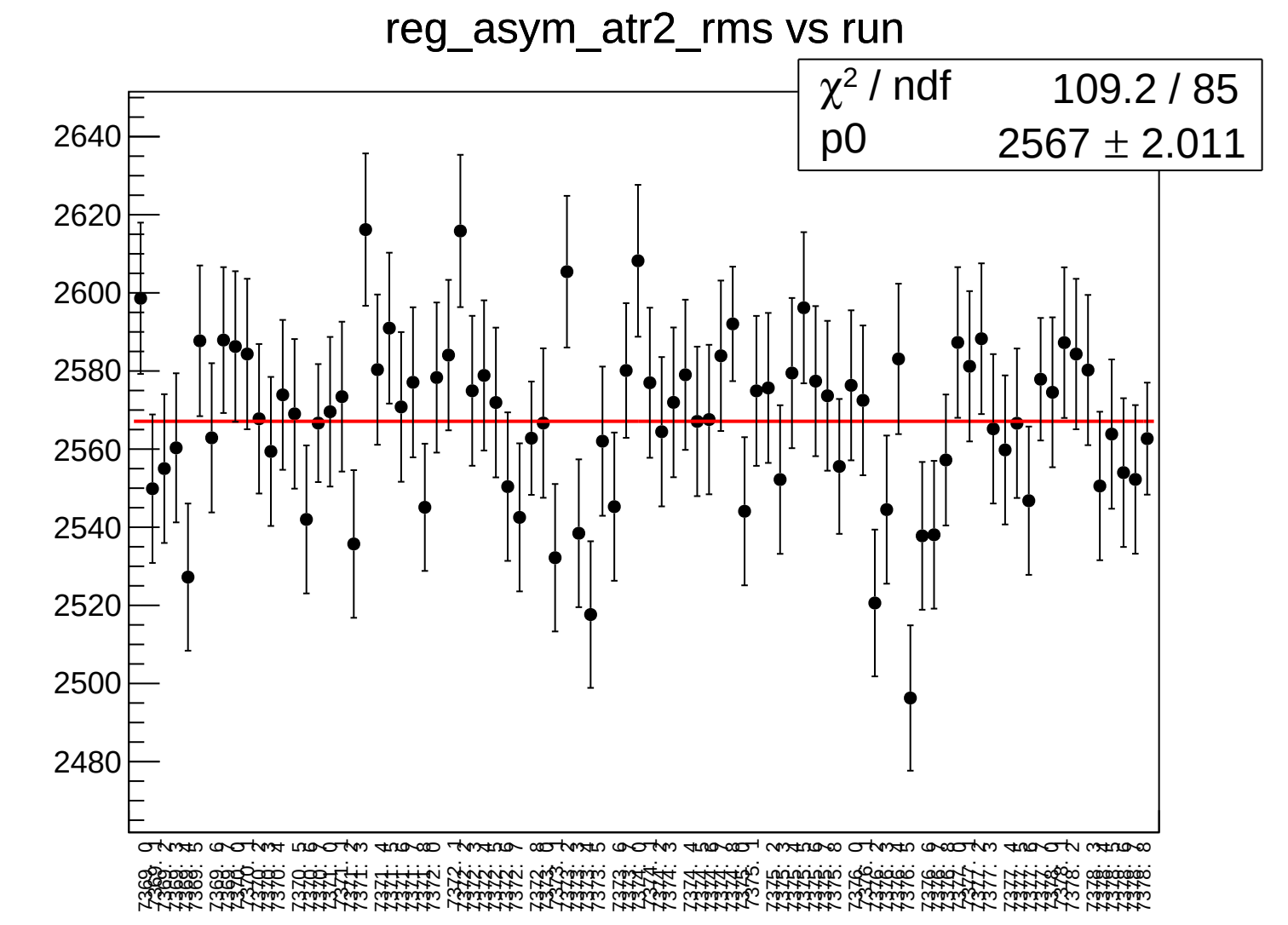

asym_atr1_mean vs run
×10^3
χ² / ndf 91.3 / 85
p0 65.56 ± 3197
100
50
0
−50
−100
pull
Entries 86
Mean 250.5
Std Dev 193.6
2
1
0
−1
−2

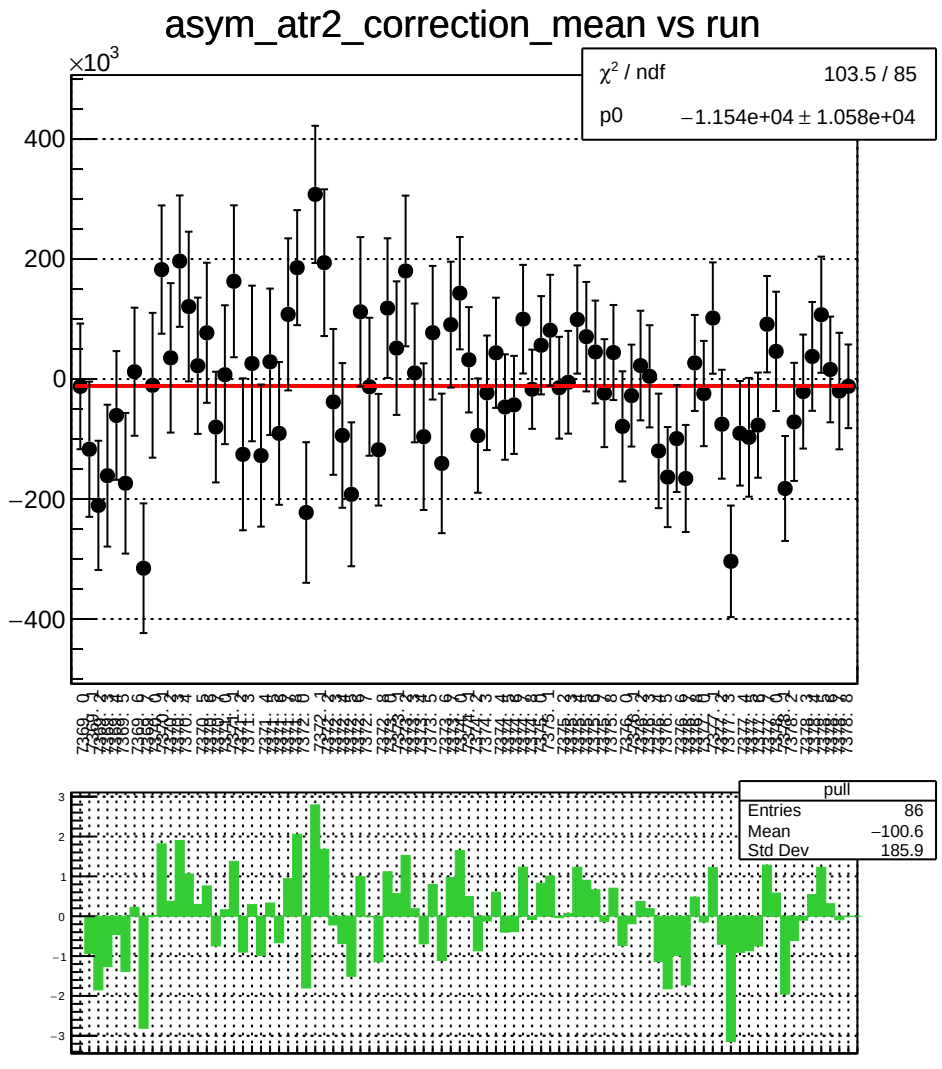

pull1D
Entries 86
Mean −0.006564
Std Dev 1.03
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

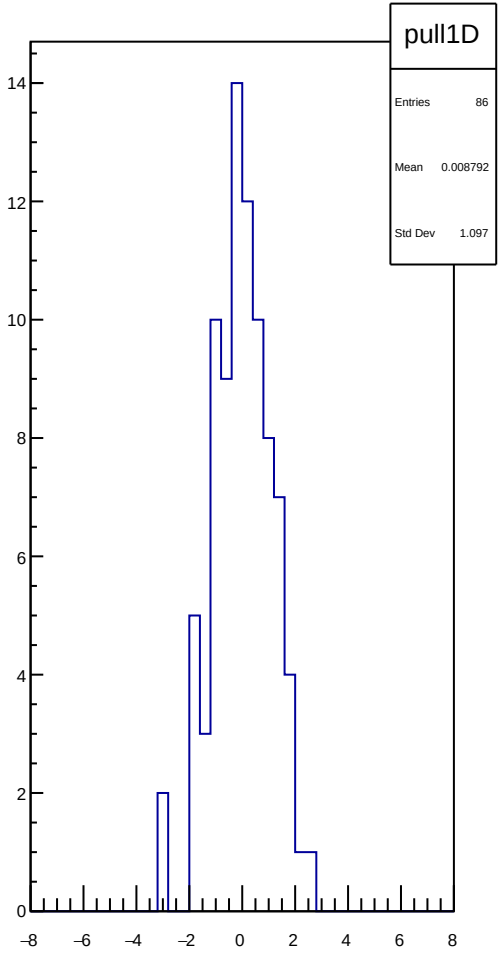

asym_atr1_rms vs run
χ² / ndf 173.1 / 85
p0 2885 ± 2.26
3000
2950
2900
2850
2800

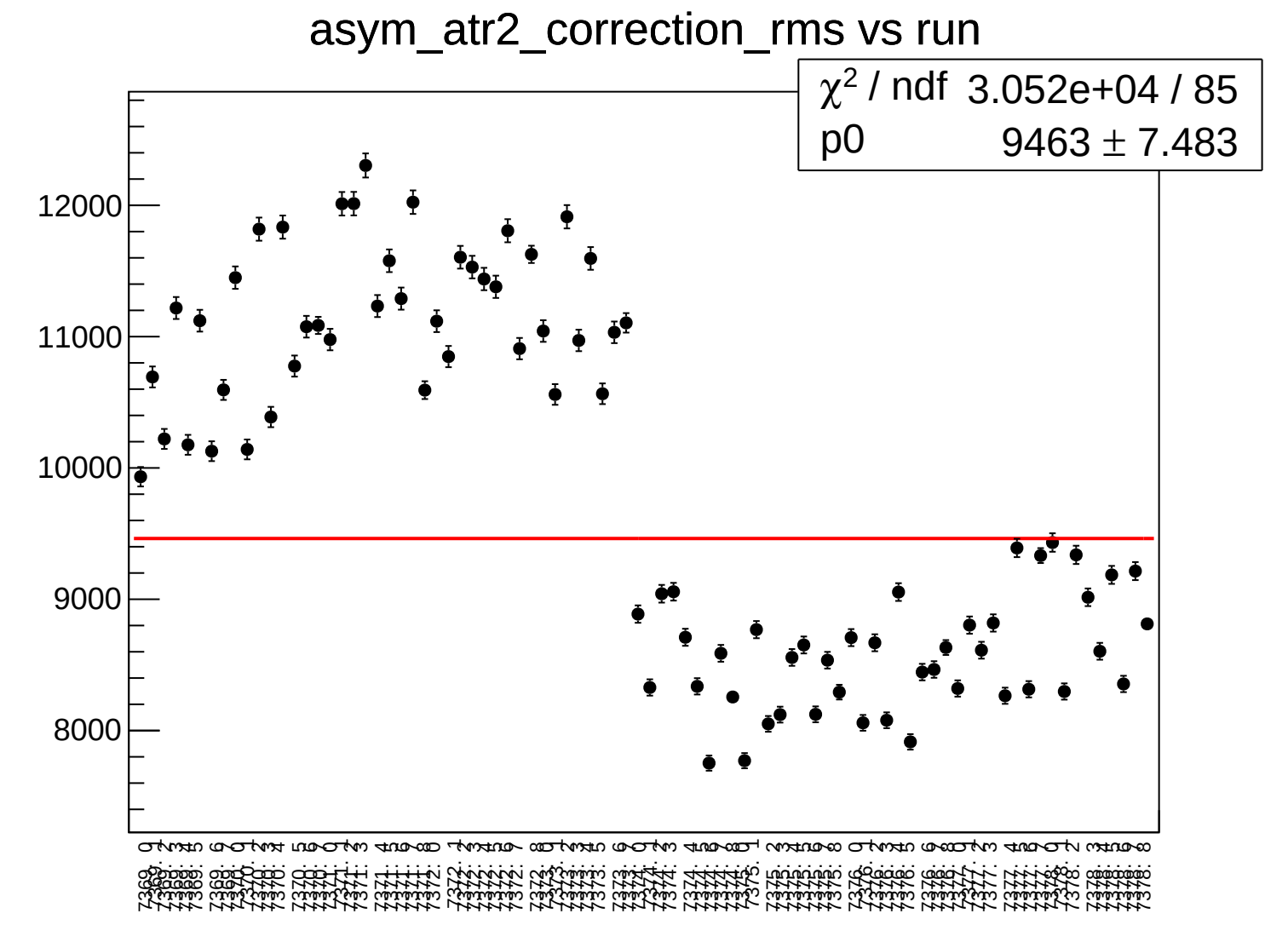

reg_asym_atr2_mean vs run
χ² / ndf 64.57 / 85
p0 1759 ± 2844
pull
Entries 86
Mean 118.4
Std Dev 104.9

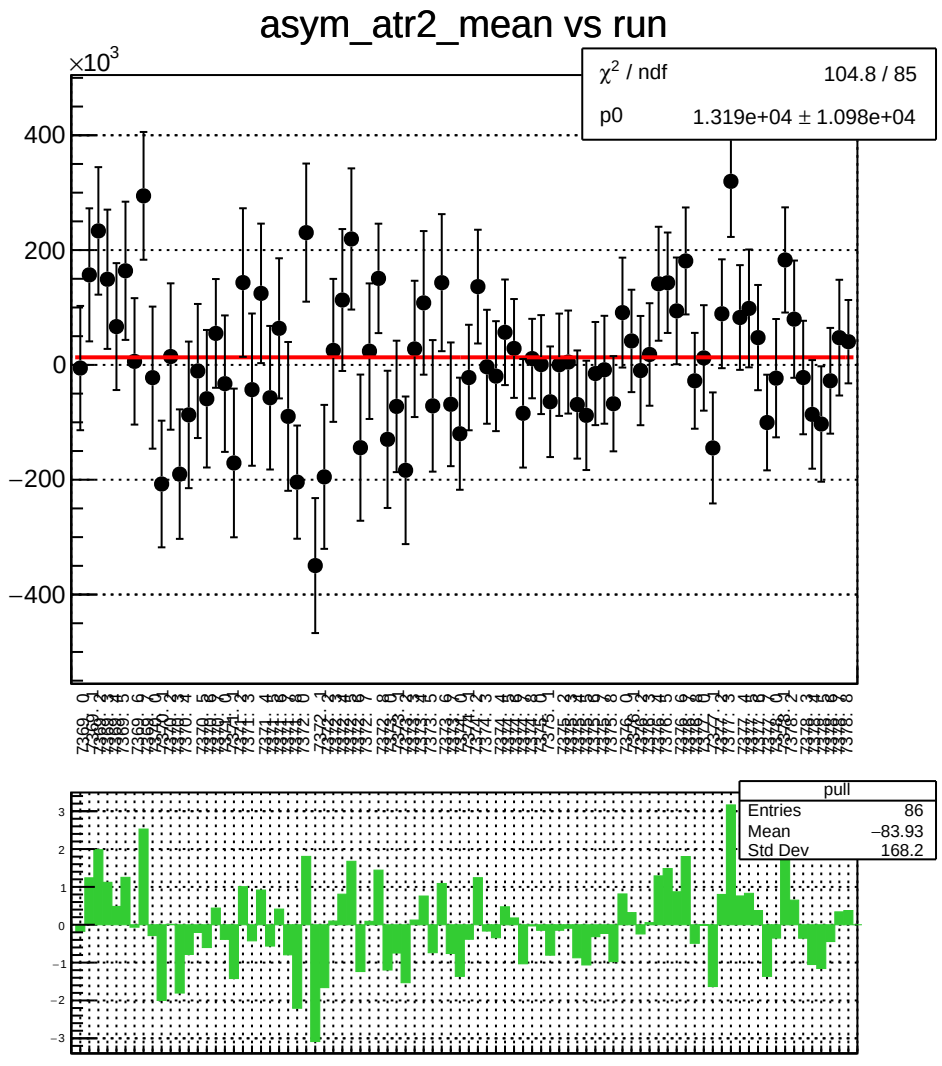

pull1D
Entries 86
Mean −0.002706
Std Dev 0.8665

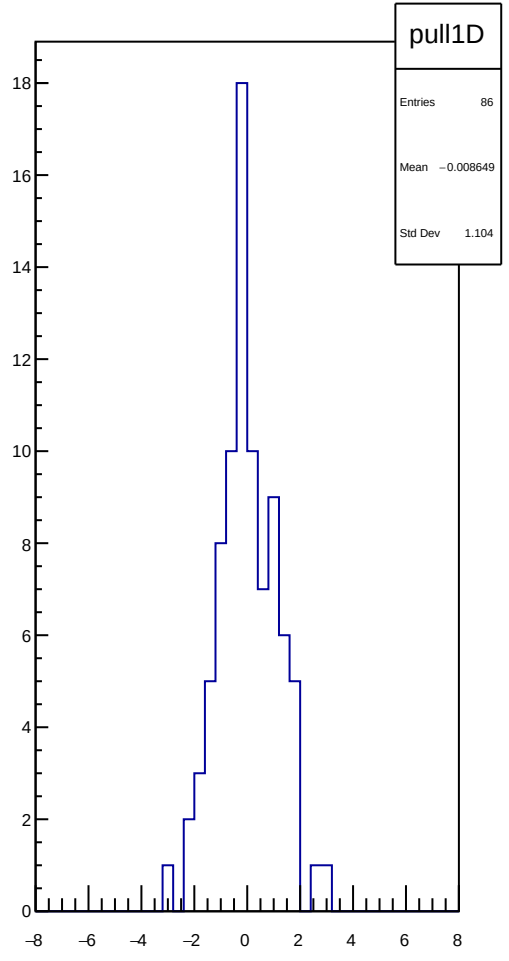

reg_asym_atr2_rms vs run
χ^2 / ndf 109.2 / 85
p0 2567 ± 2.011
2640
2620
2600
2580
2560
2540
2520
2500
2480

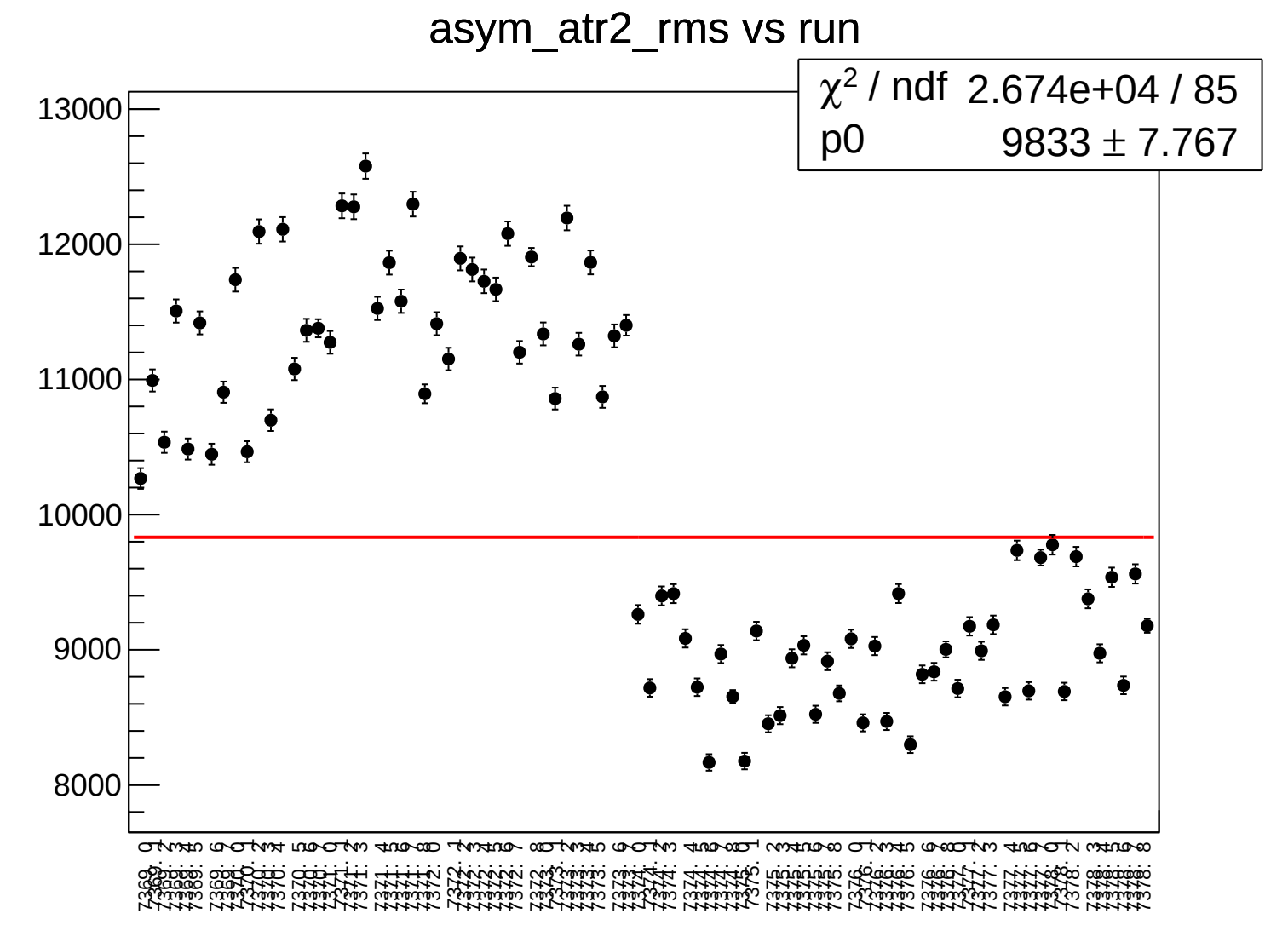

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 103.5 / 85
p0 −1.154e+04 ± 1.058e+04
400
200
0
−200
−400
pull
Entries 86
Mean −100.6
Std Dev 185.9
3
2
1
0
−1
−2
−3

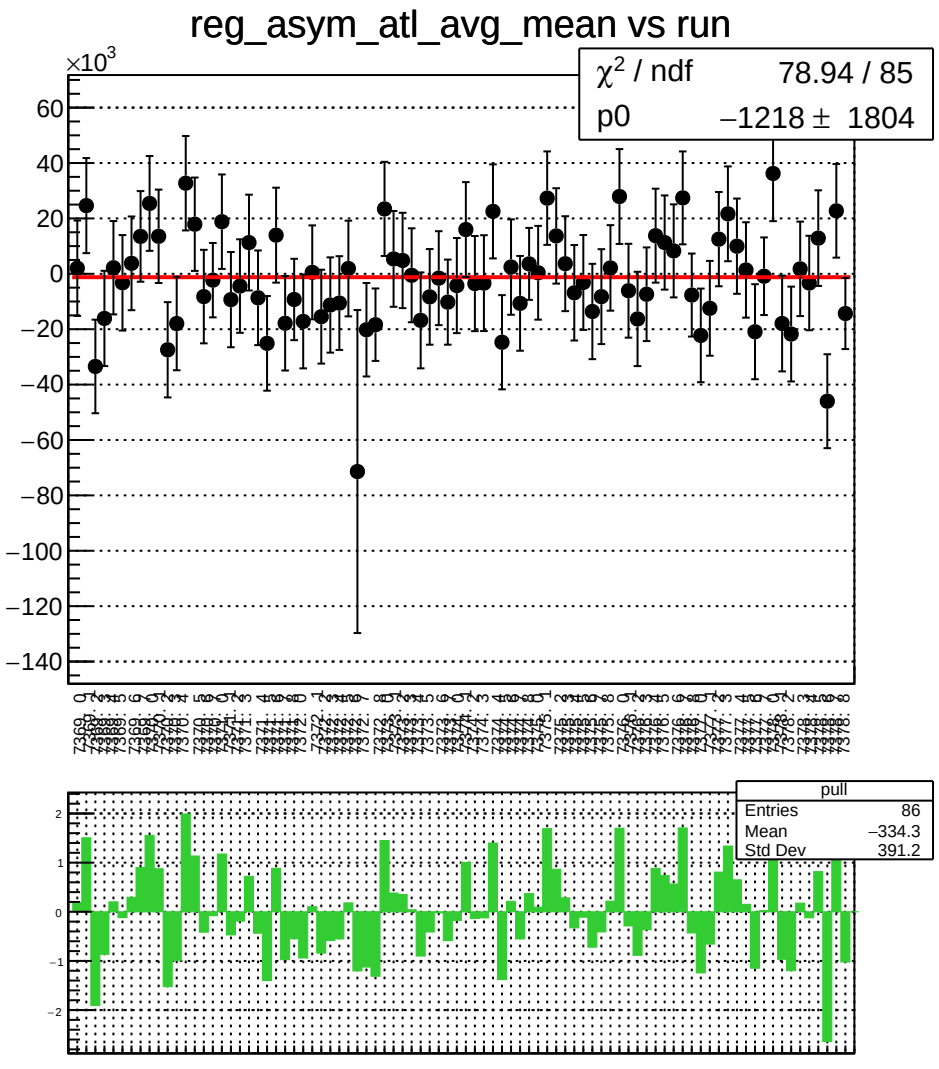

pull1D
Entries 86
Mean 0.008792
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

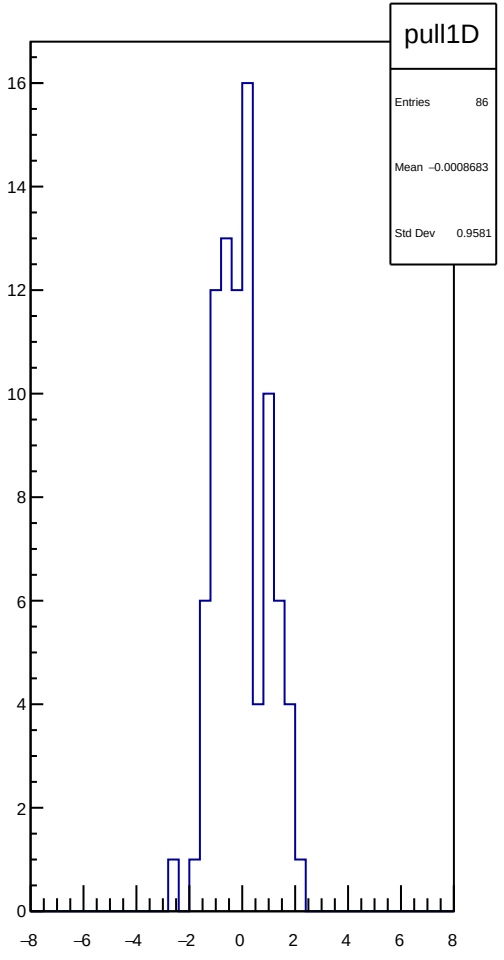

asym_atr2_correction_rms vs run
χ² / ndf 3.052e+04 / 85
p0 9463 ± 7.483
12000
11000
10000
9000
8000

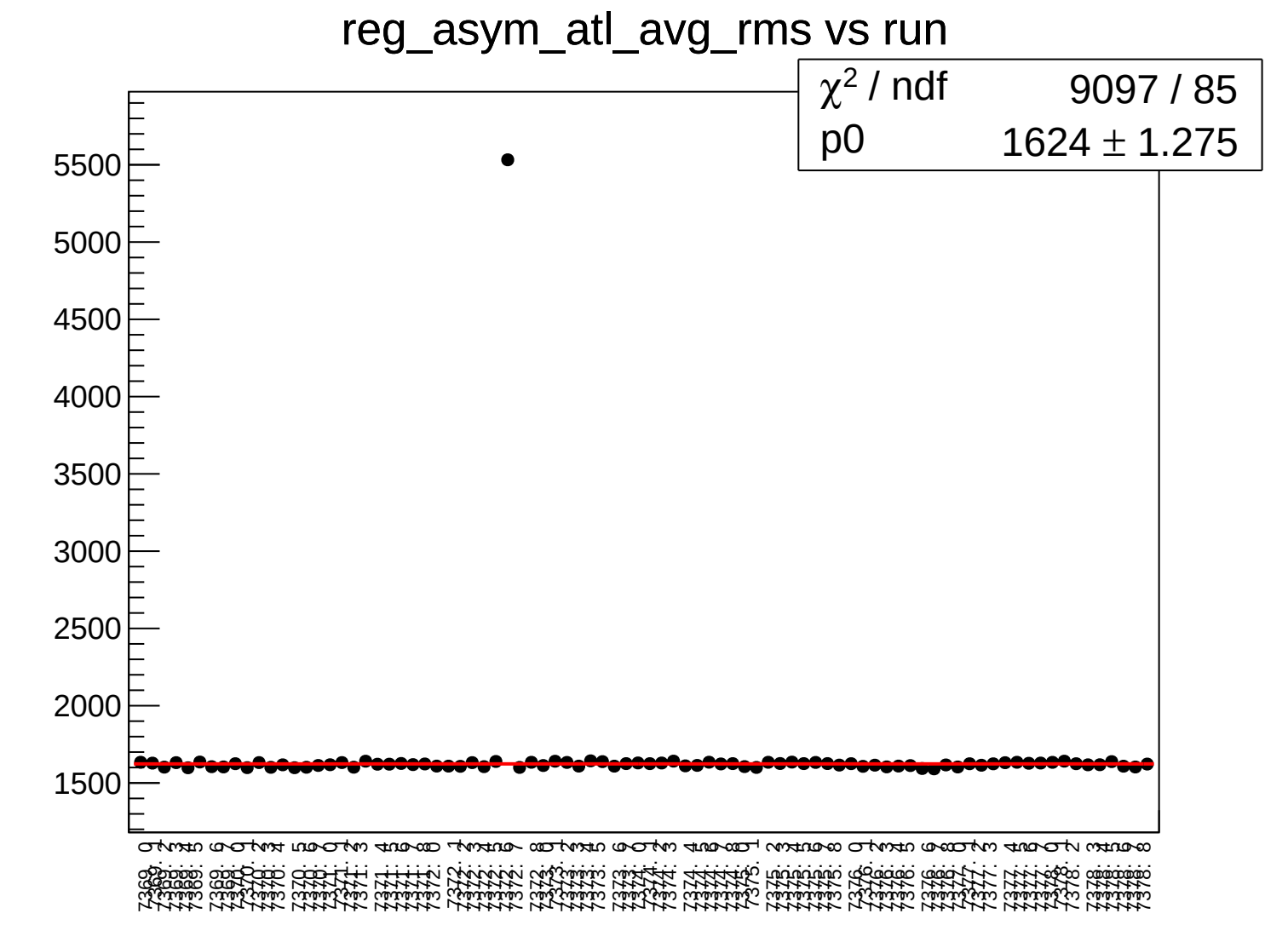

asym_atr2_mean vs run
×10^3
χ² / ndf 104.8 / 85
p0 1.319e+04 ± 1.098e+04
400
200
0
−200
−400
pull
Entries 86
Mean −83.93
Std Dev 168.2
3
2
1
0
−1
−2
−3

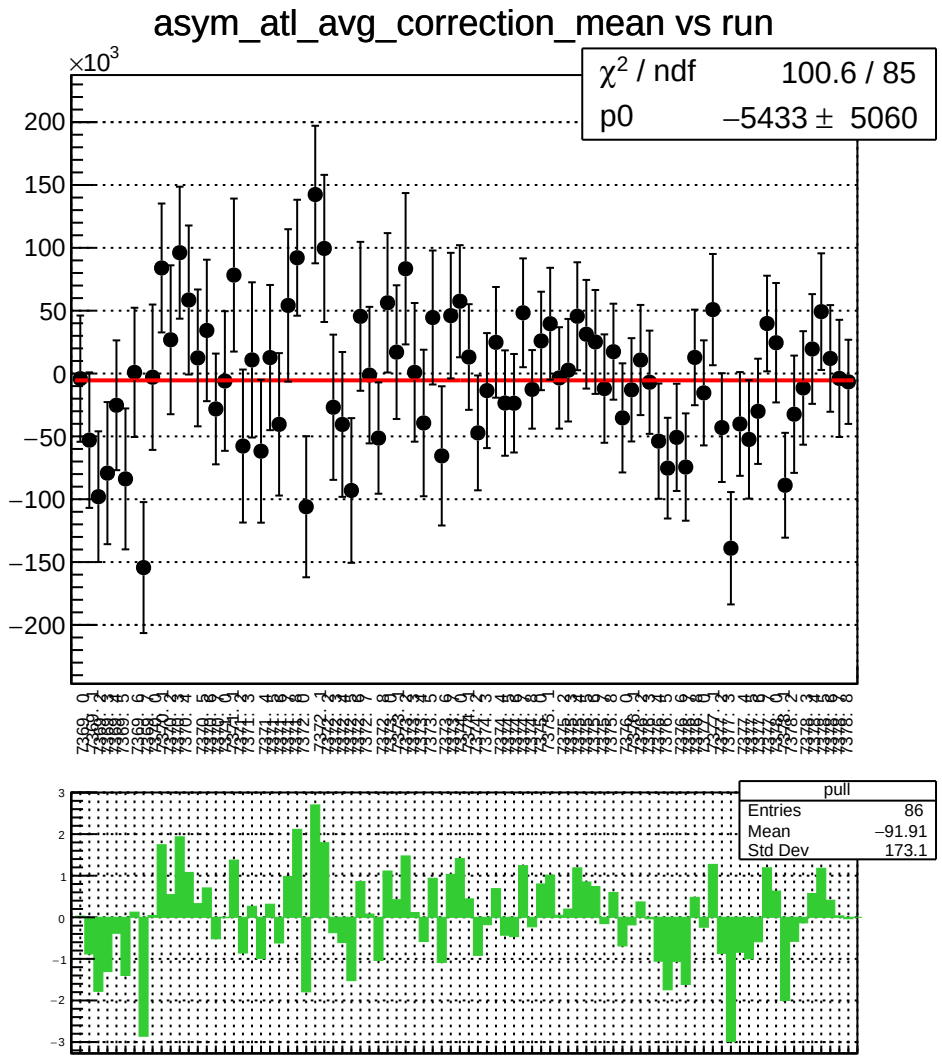

pull1D
Entries 86
Mean −0.008649
Std Dev 1.104
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

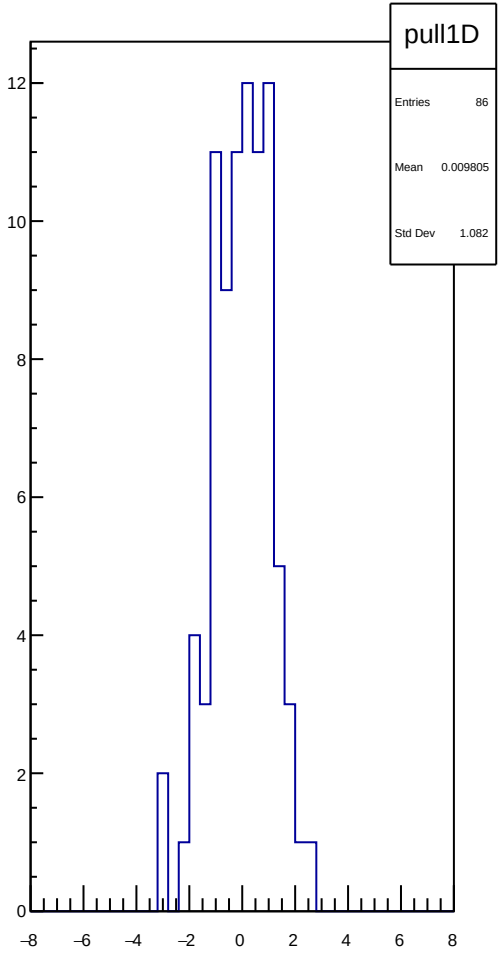

asym_atr2_rms vs run
χ² / ndf 2.674e+04 / 85
p0 9833 ± 7.767
13000
12000
11000
10000
9000
8000

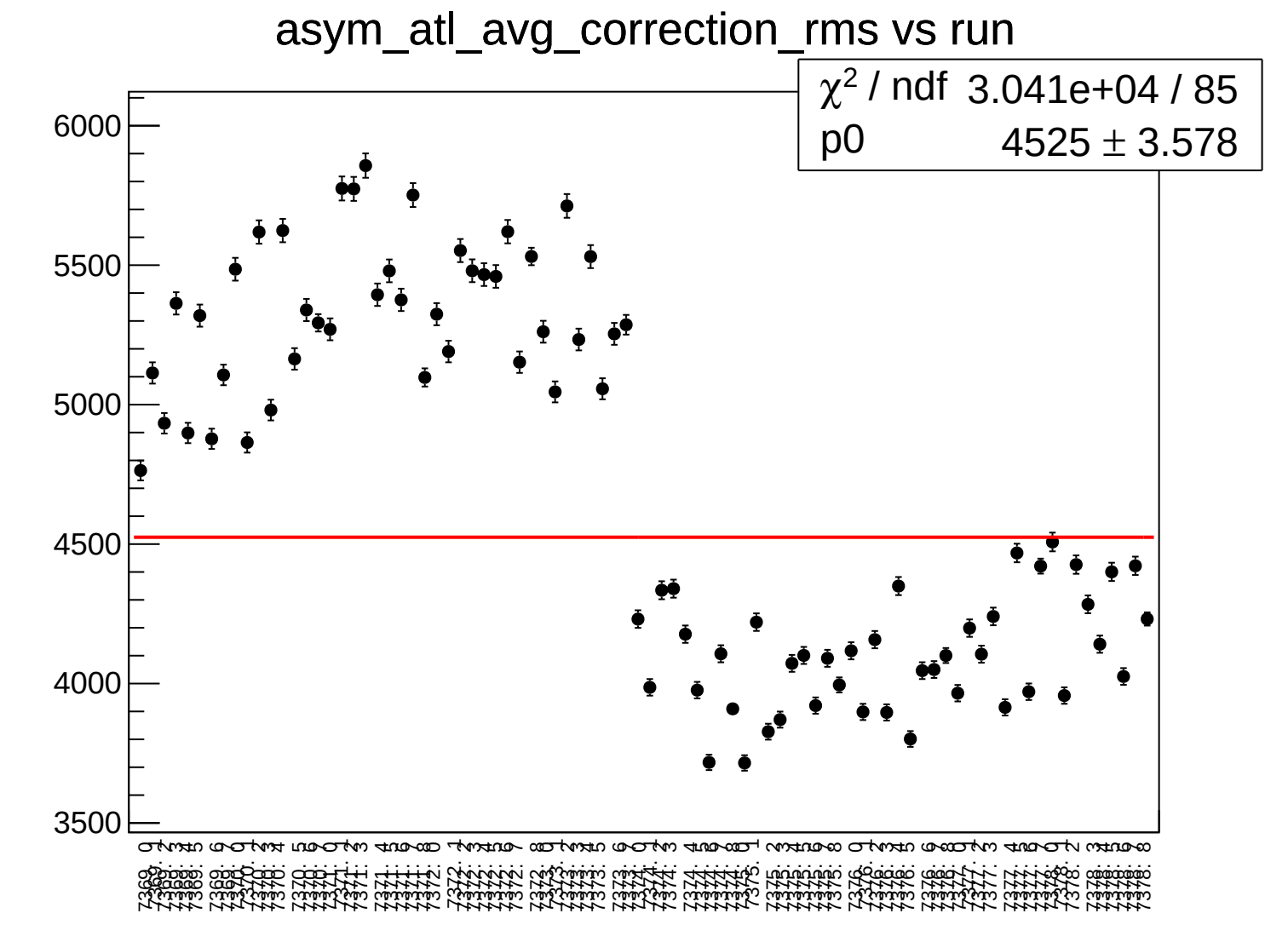

reg_asym_atl_avg_mean vs run
×10^3
χ² / ndf 78.94 / 85
p0 −1218 ± 1804
pull
Entries 86
Mean −334.3
Std Dev 391.2

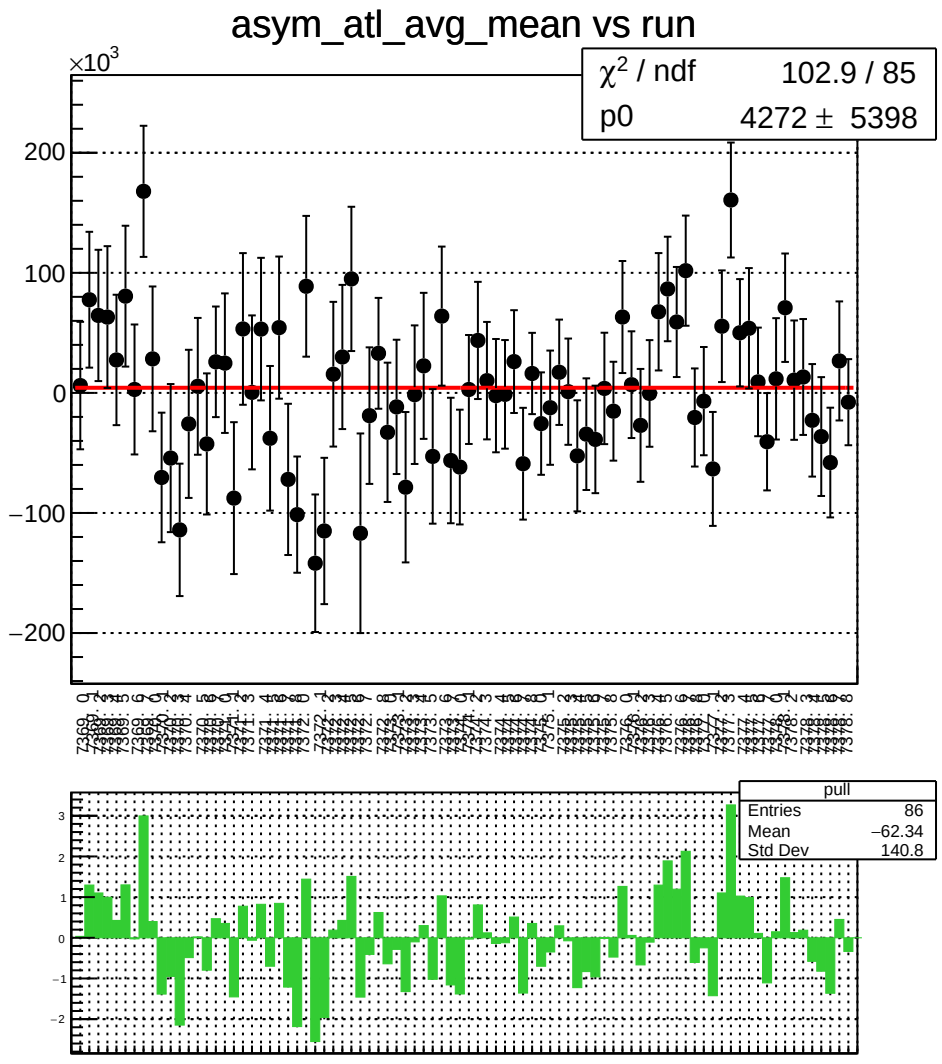

pull1D
Entries 86
Mean −0.0008683
Std Dev 0.9581

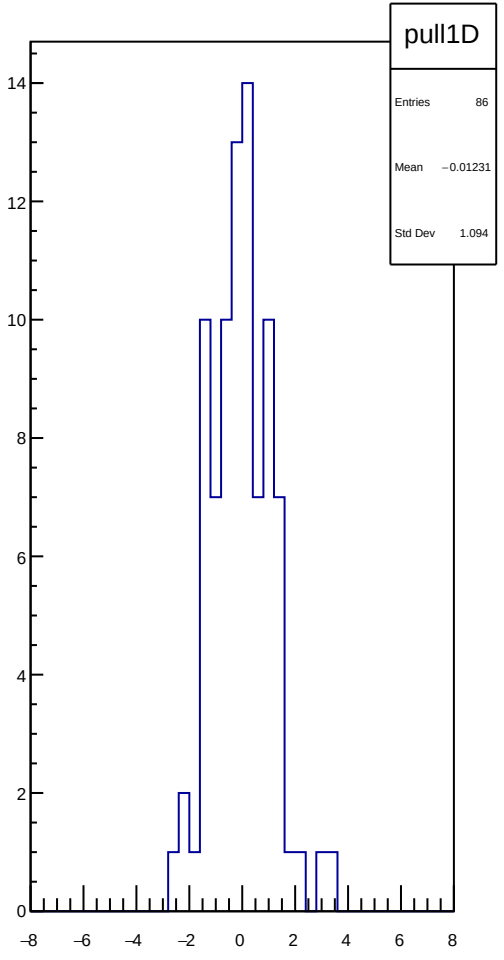

reg_asym_atl_avg_rms vs run
χ^2 / ndf 9097 / 85
p0 1624 ± 1.275
5500
5000
4500
4000
3500
3000
2500
2000
1500

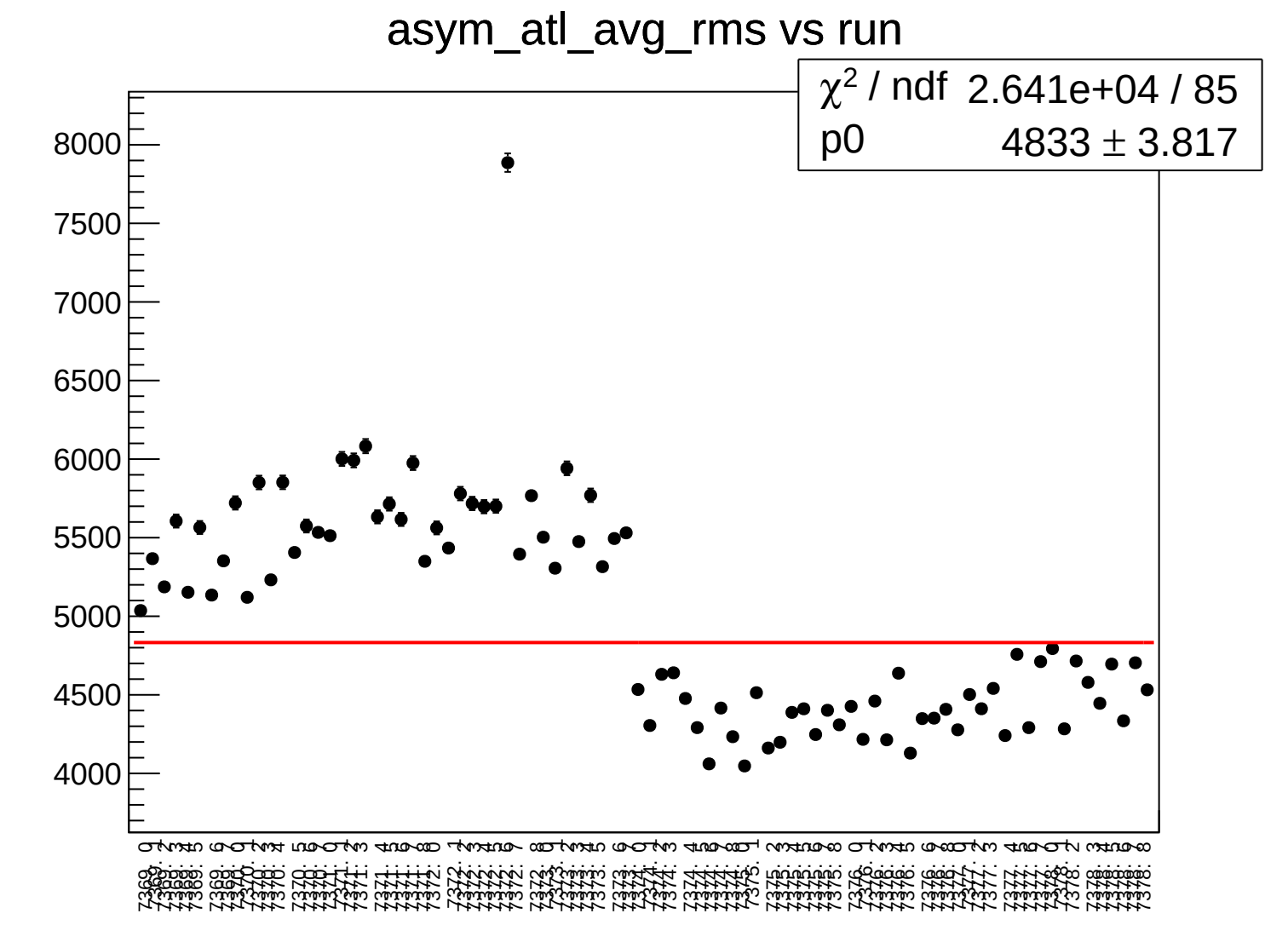

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 100.6 / 85
p0 −5433 ± 5060
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −91.91
Std Dev 173.1
3
2
1
0
−1
−2
−3

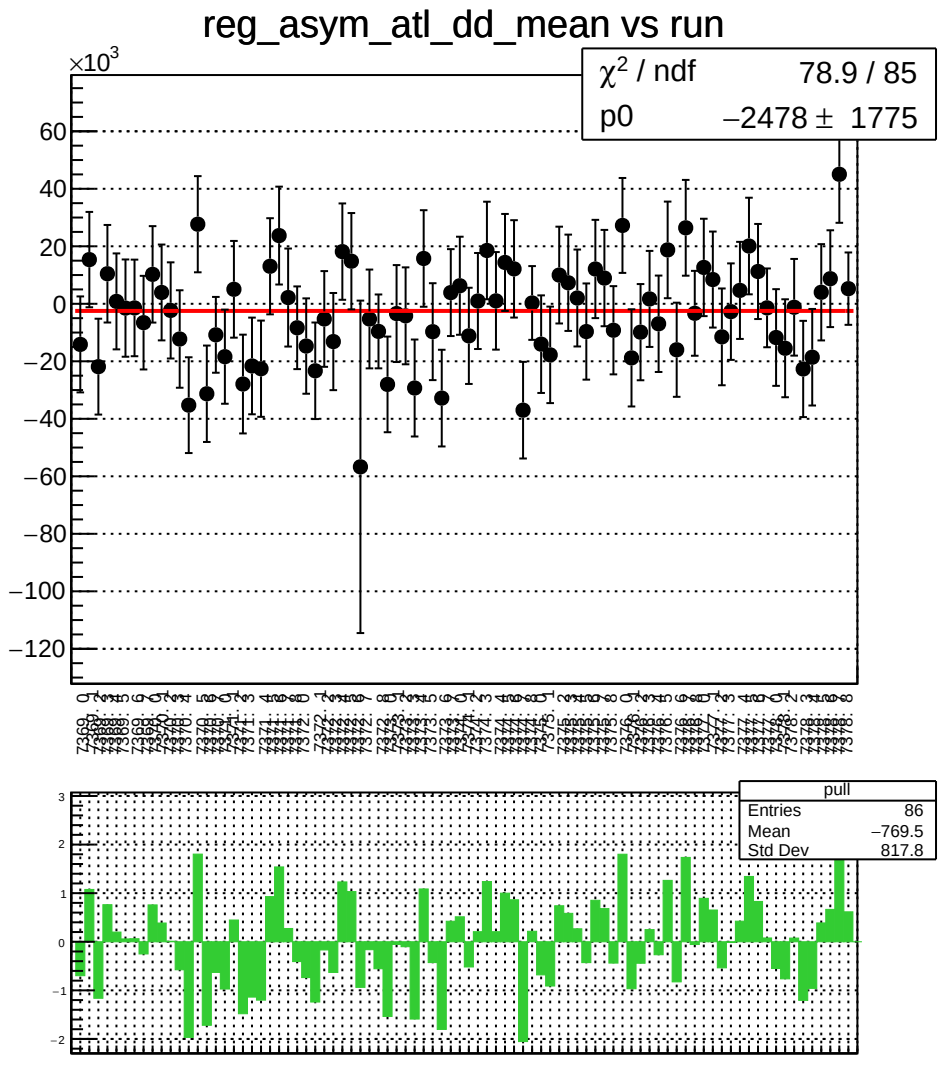

pull1D
Entries 86
Mean 0.009805
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

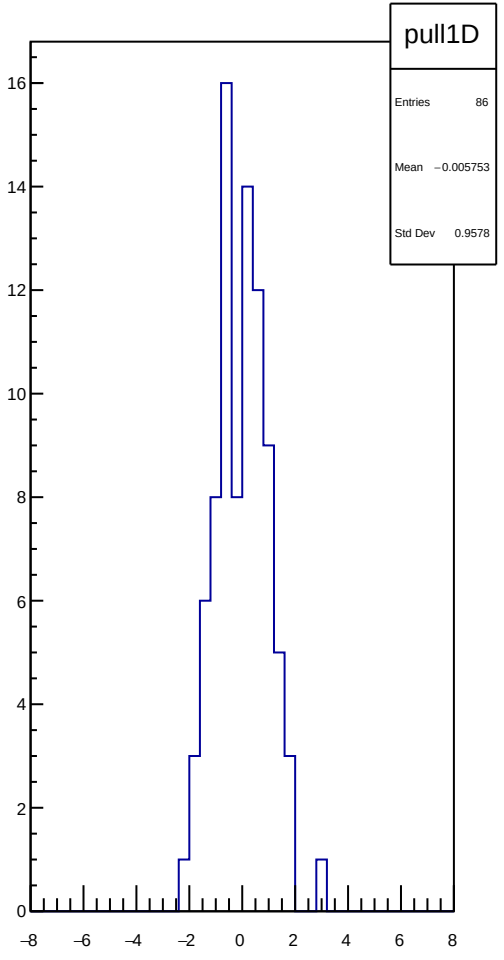

asym_atl_avg_correction_rms vs run
χ² / ndf 3.041e+04 / 85
p0 4525 ± 3.578
6000
5500
5000
4500
4000
3500

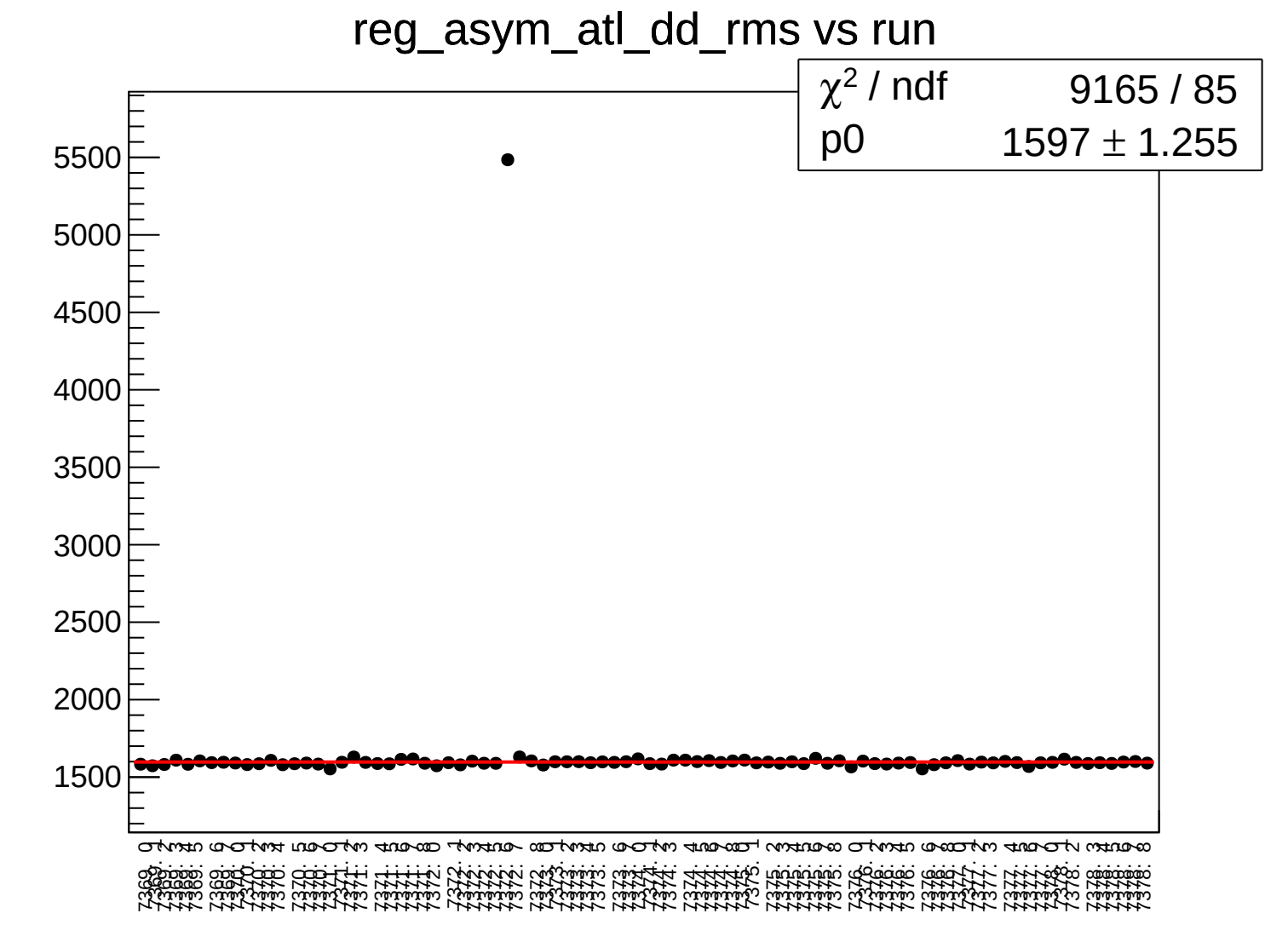

asym_atl_avg_mean vs run
×10^3
χ² / ndf 102.9 / 85
p0 4272 ± 5398
200
100
0
−100
−200
pull
Entries 86
Mean −62.34
Std Dev 140.8
3
2
1
0
−1
−2

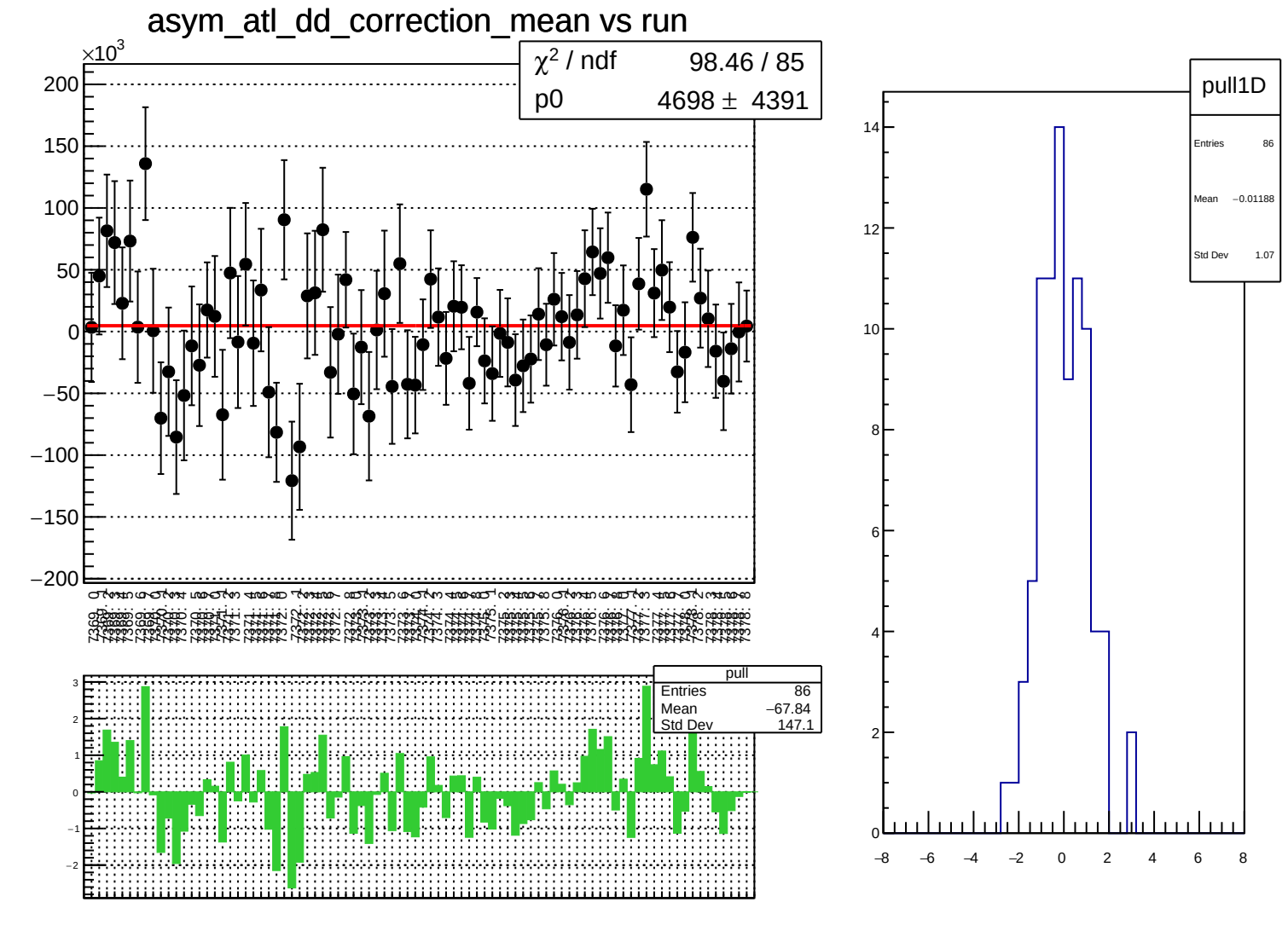

pull1D
Entries 86
Mean −0.01231
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

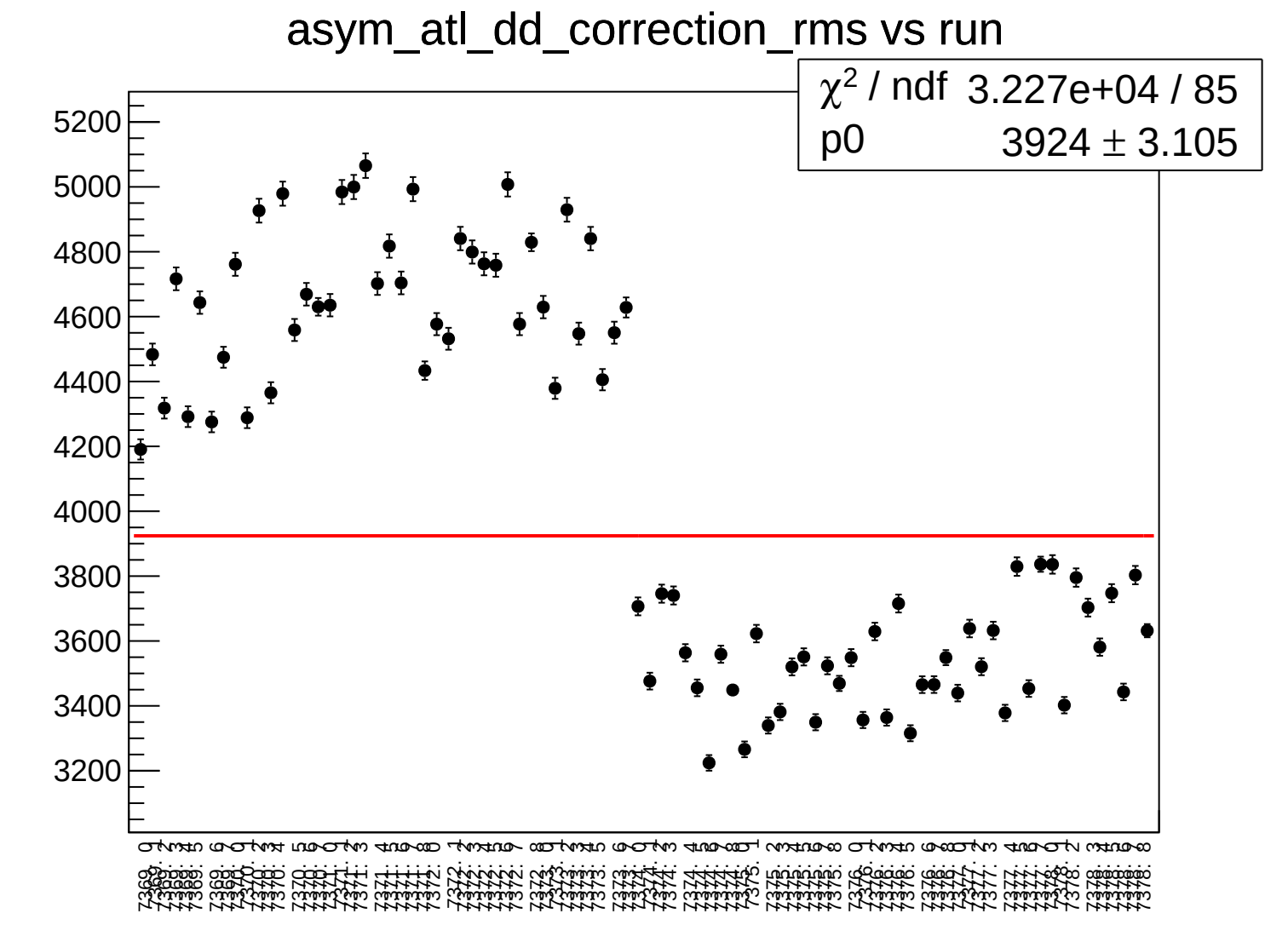

asym_atl_avg_rms vs run
χ² / ndf 2.641e+04 / 85
p0 4833 ± 3.817
8000
7500
7000
6500
6000
5500
5000
4500
4000

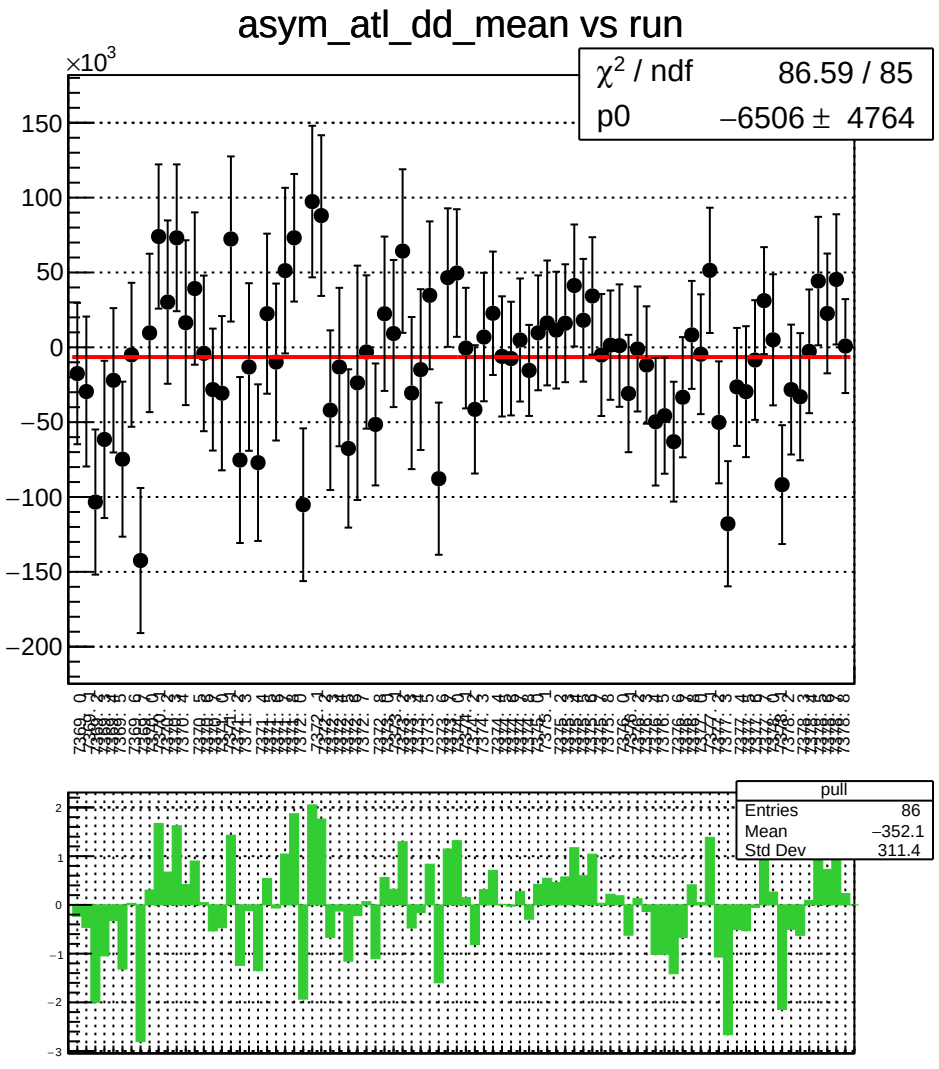

reg_asym_atl_dd_mean vs run
×10^3
χ² / ndf 78.9 / 85
p0 −2478 ± 1775
pull
Entries 86
Mean −769.5
Std Dev 817.8

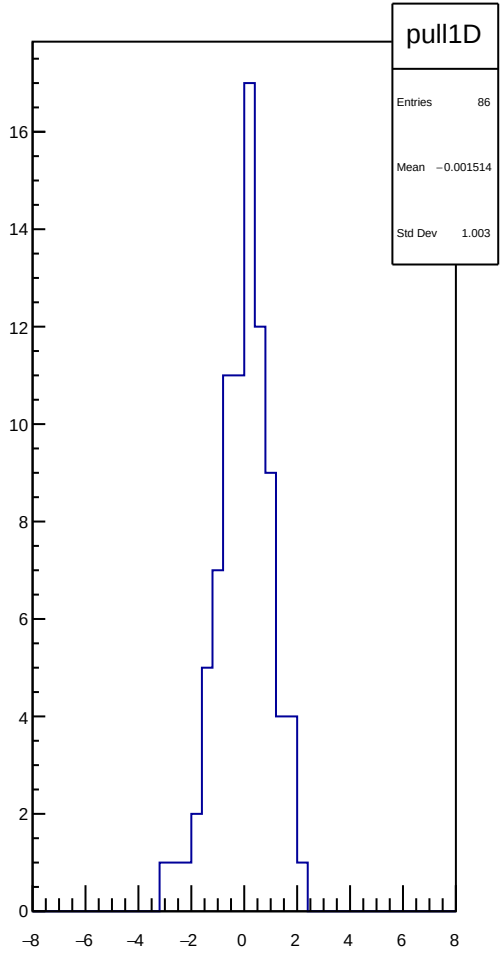

pull1D
Entries 86
Mean −0.005753
Std Dev 0.9578

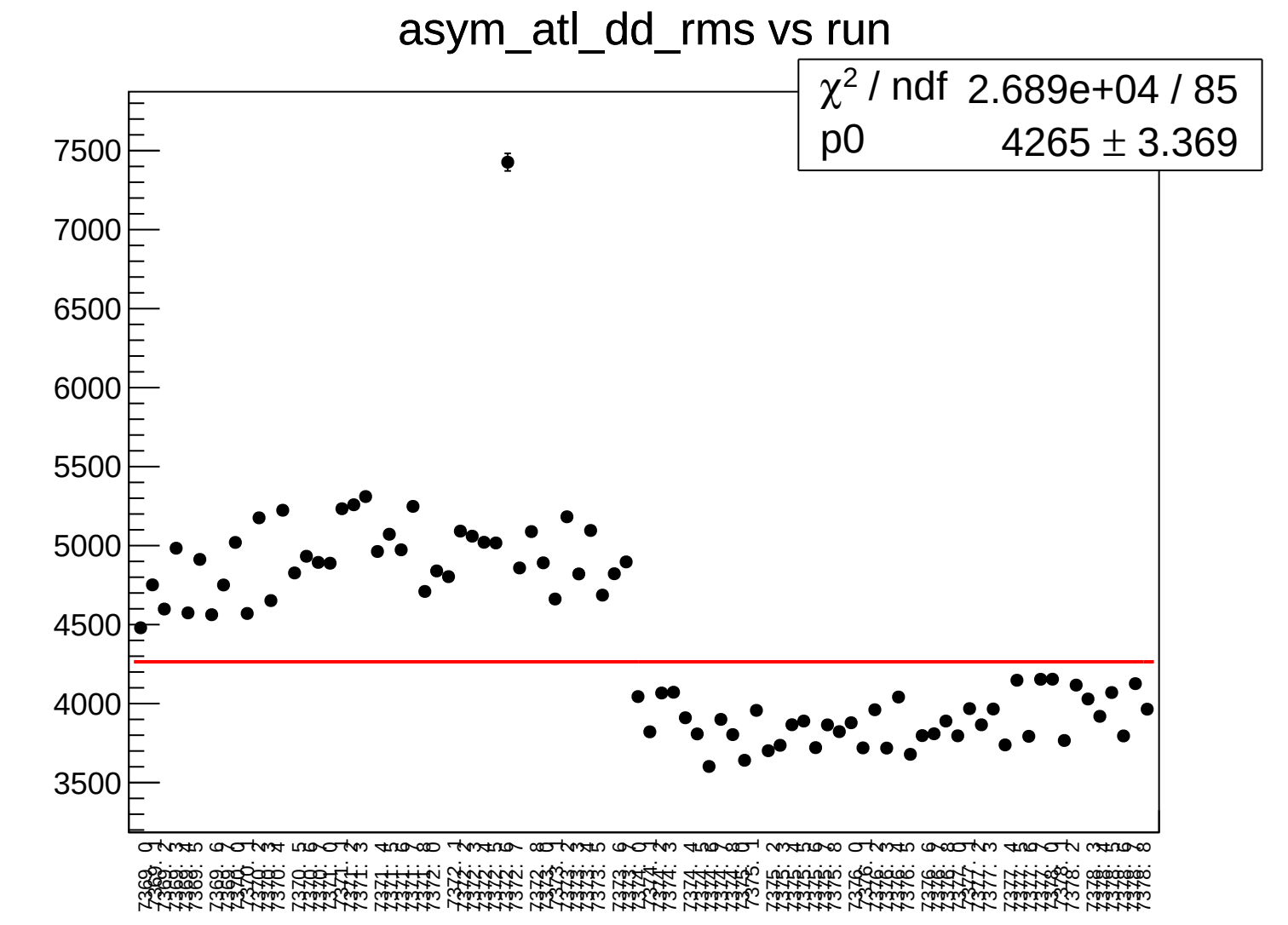

reg_asym_atl_dd_rms vs run
χ^2 / ndf 9165 / 85
p0 1597 ± 1.255
5500
5000
4500
4000
3500
3000
2500
2000
1500

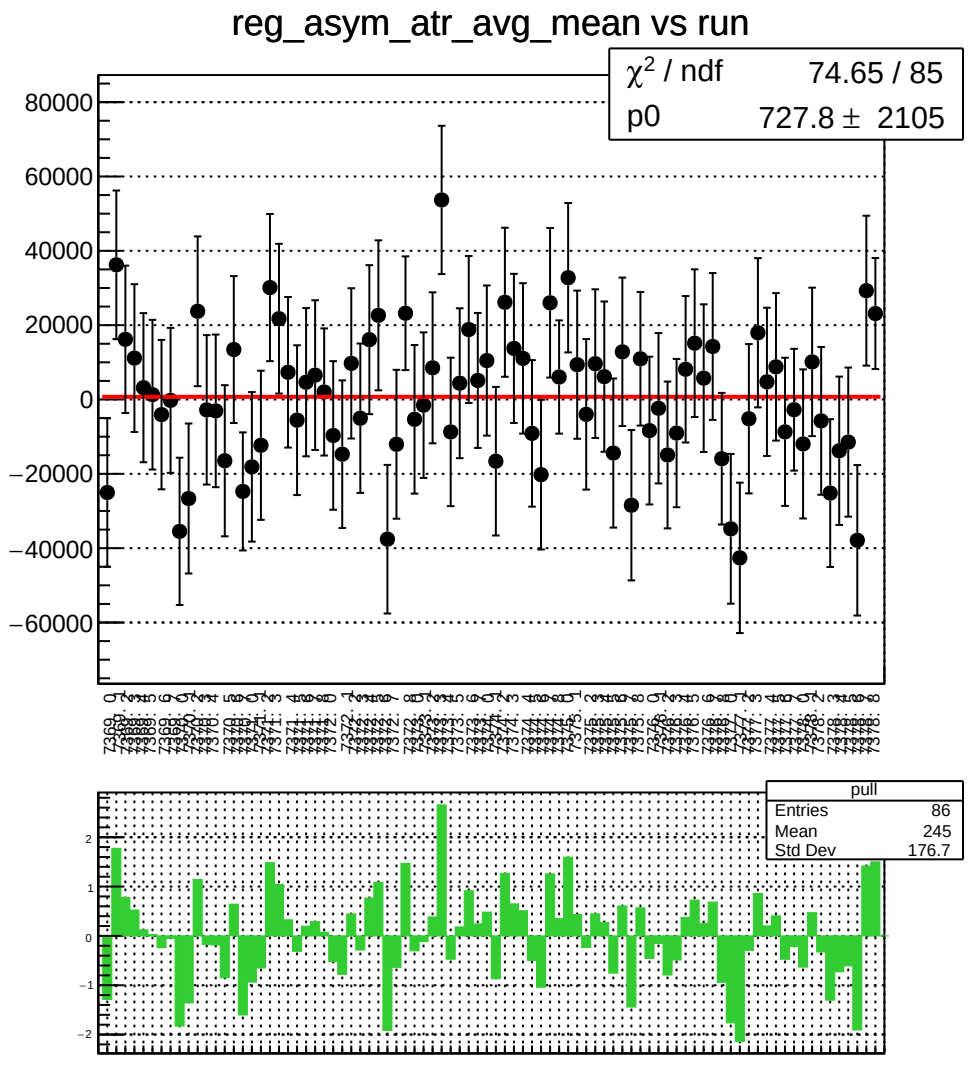

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 98.46 / 85
p0 4698 ± 4391
pull
Entries 86
Mean −67.84
Std Dev 147.1
pull1D
Entries 86
Mean −0.01188
Std Dev 1.07

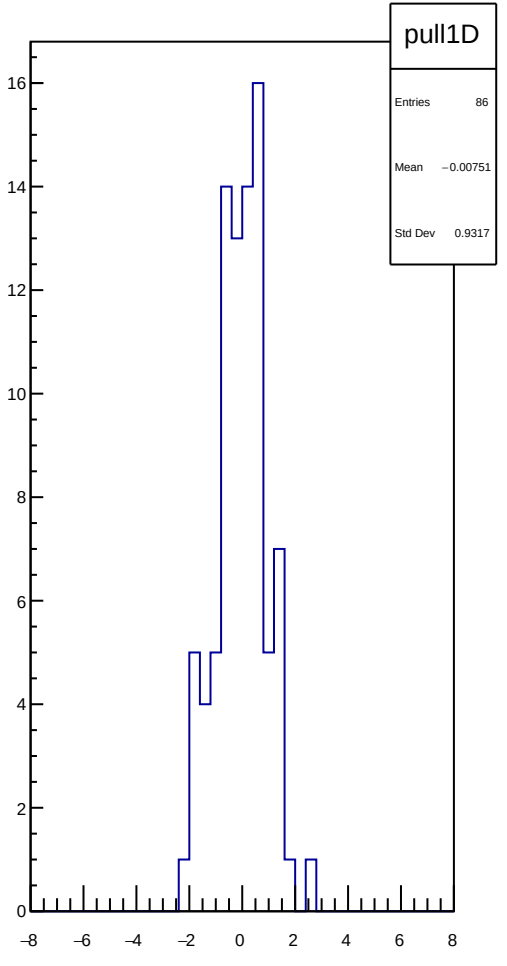

asym_atl_dd_correction_rms vs run
χ^2 / ndf 3.227e+04 / 85
p0 3924 ± 3.105
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

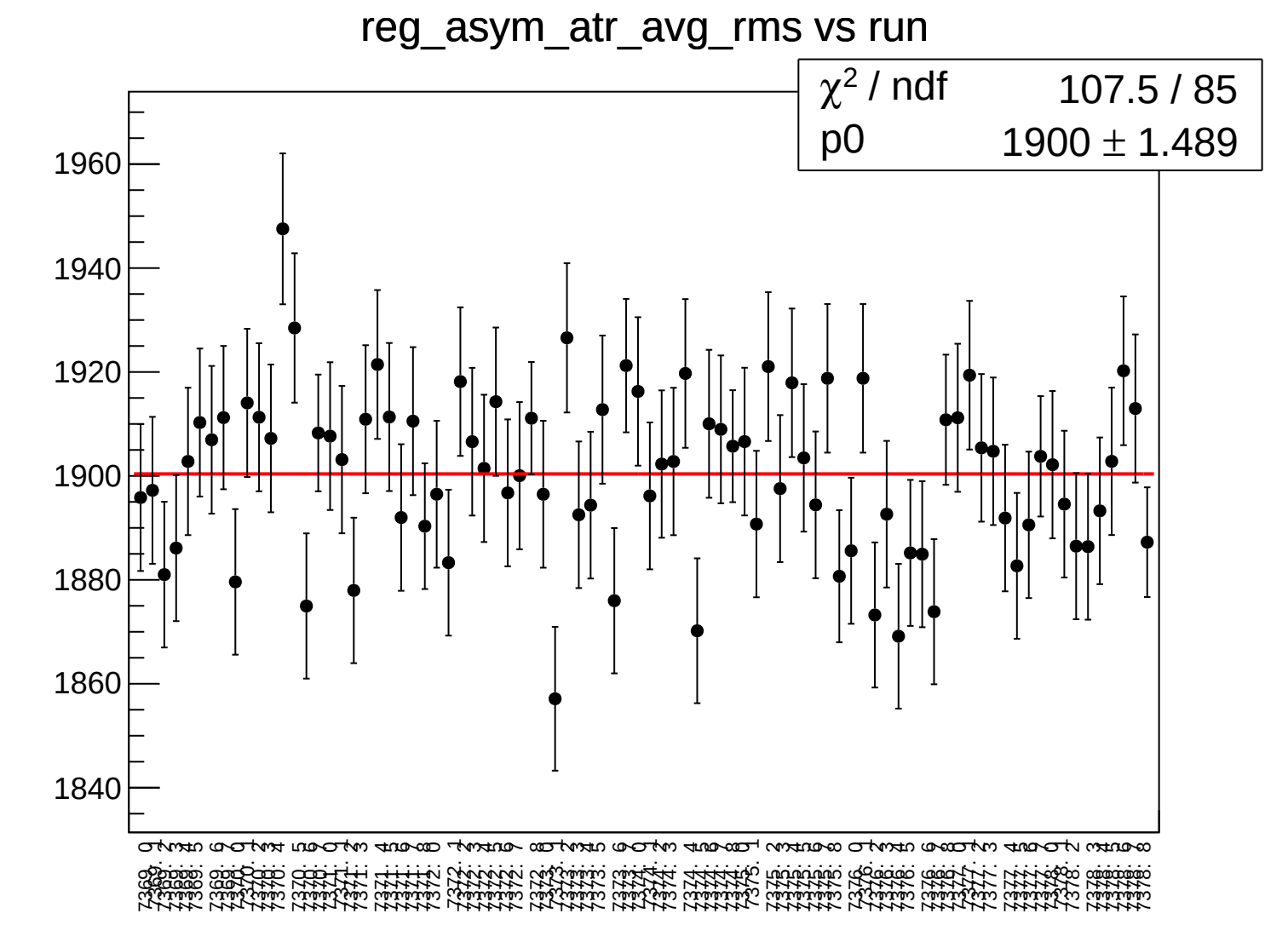

asym_atl_dd_mean vs run
×10^3
χ² / ndf 86.59 / 85
p0 −6506 ± 4764
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −352.1
Std Dev 311.4
2
1
0
−1
−2
−3

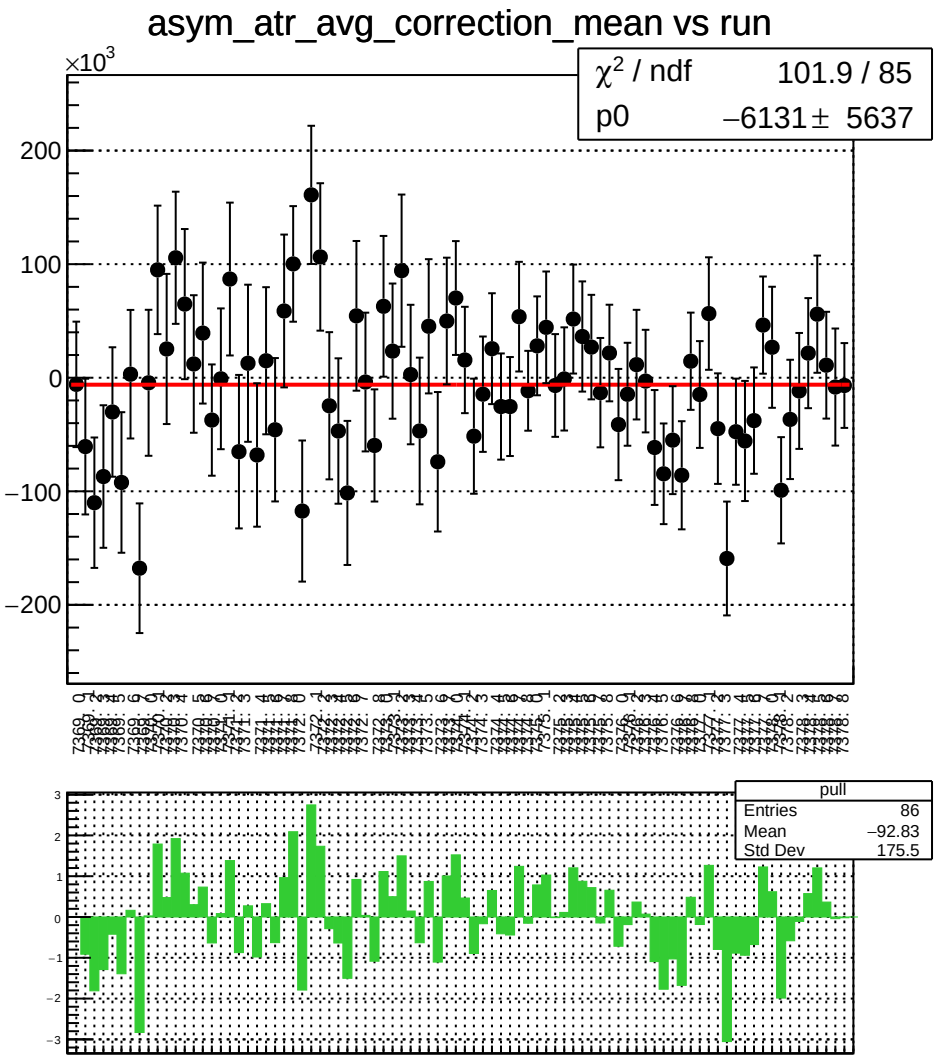

pull1D
Entries 86
Mean −0.001514
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

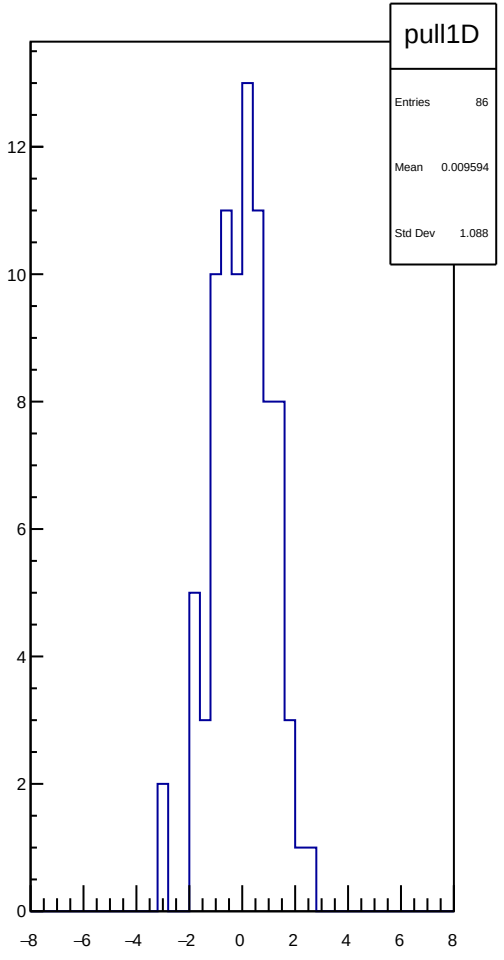

asym_atl_dd_rms vs run
χ^2 / ndf 2.689e+04 / 85
p0 4265 ± 3.369
7500
7000
6500
6000
5500
5000
4500
4000
3500

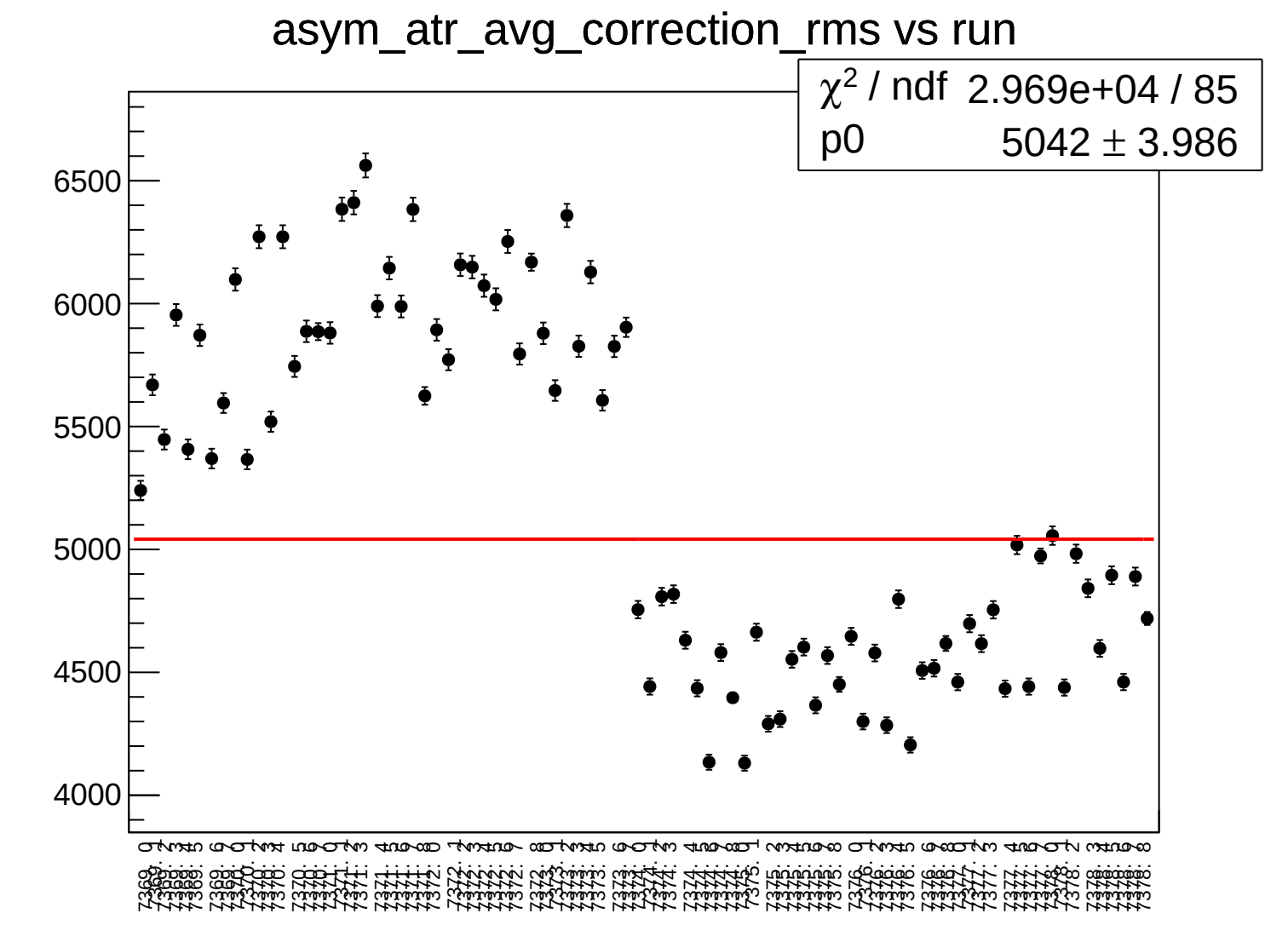

reg_asym_atr_avg_mean vs run
χ² / ndf 74.65 / 85
p0 727.8 ± 2105
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 245
Std Dev 176.7
2
1
0
−1
−2

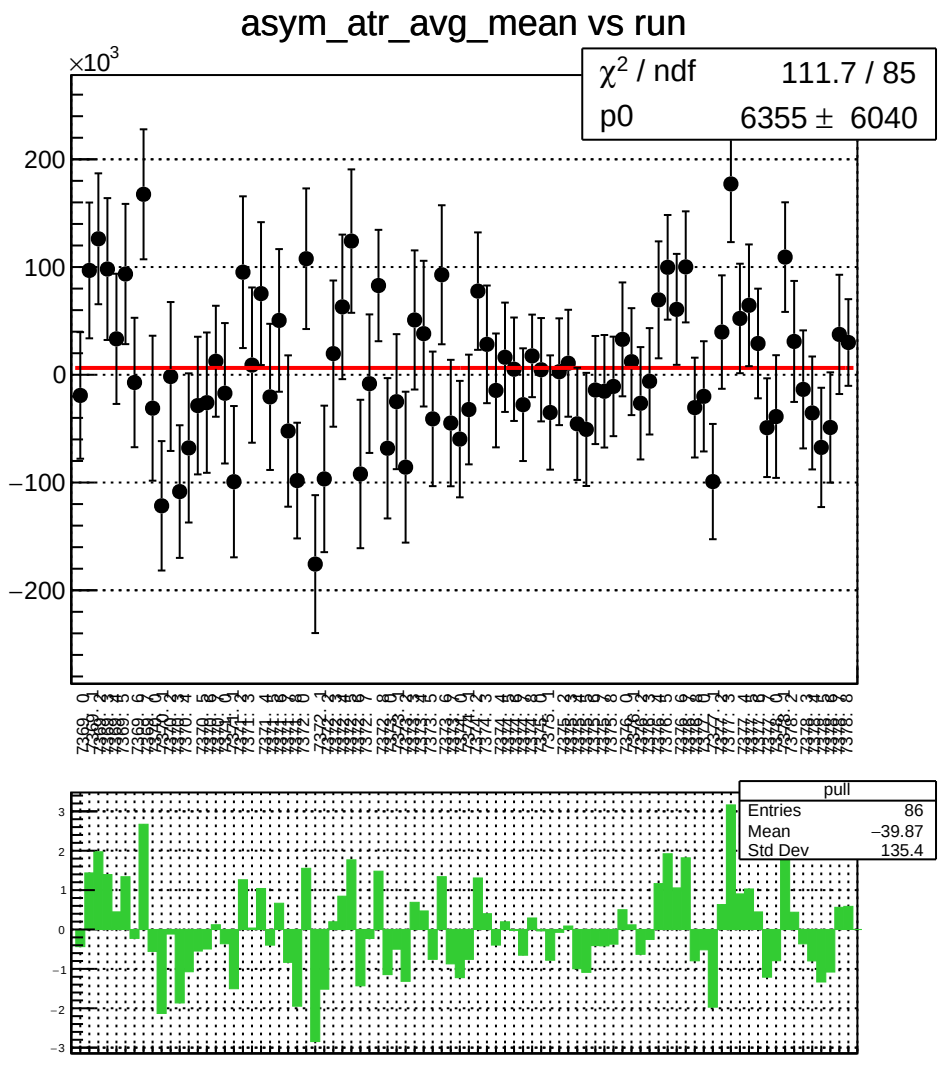

pull1D
Entries 86
Mean −0.00751
Std Dev 0.9317
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

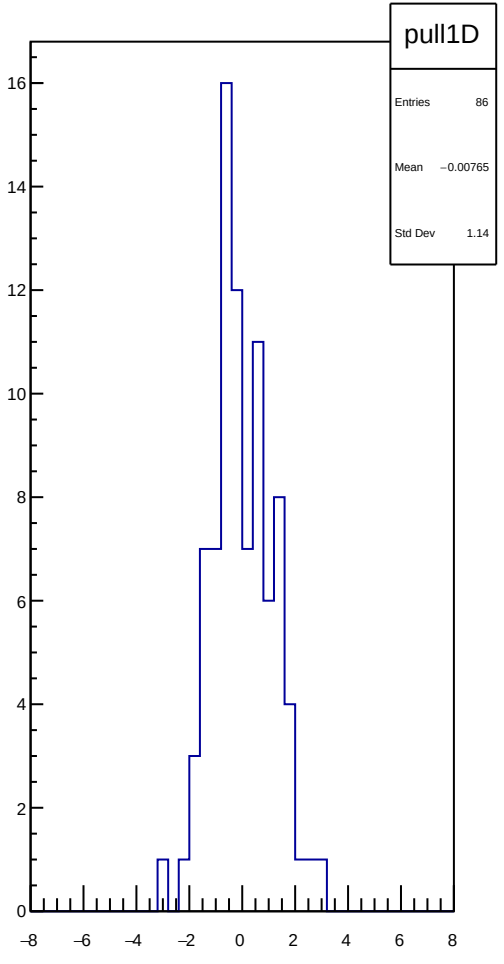

reg_asym_atr_avg_rms vs run
χ^2 / ndf 107.5 / 85
p0 1900 ± 1.489
1960
1940
1920
1900
1880
1860
1840

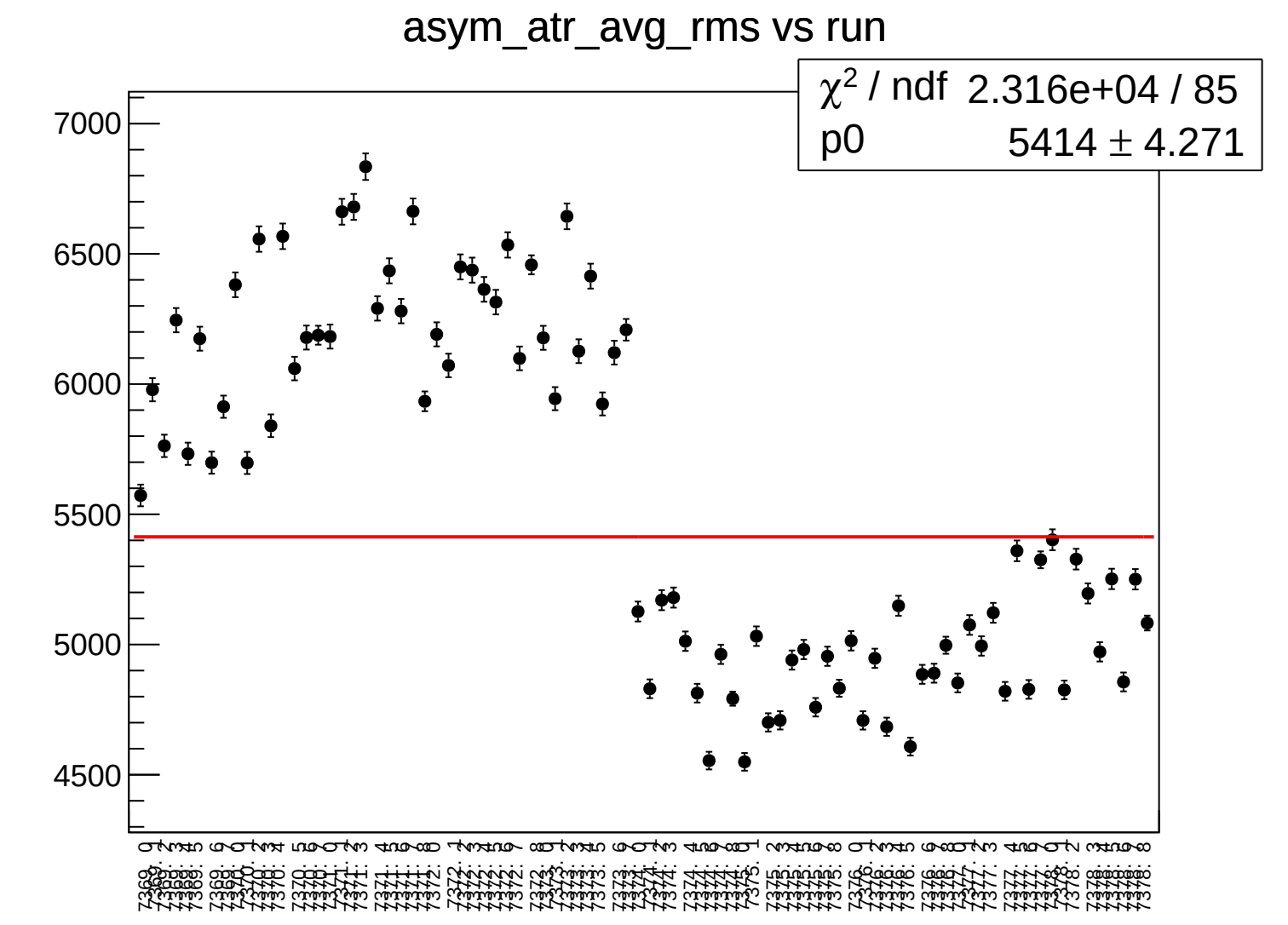

asym_atr_avg_correction_mean vs run
×10^3
χ^2 / ndf 101.9 / 85
p0 −6131 ± 5637
200
100
0
−100
−200
pull
Entries 86
Mean −92.83
Std Dev 175.5
3
2
1
0
−1
−2
−3

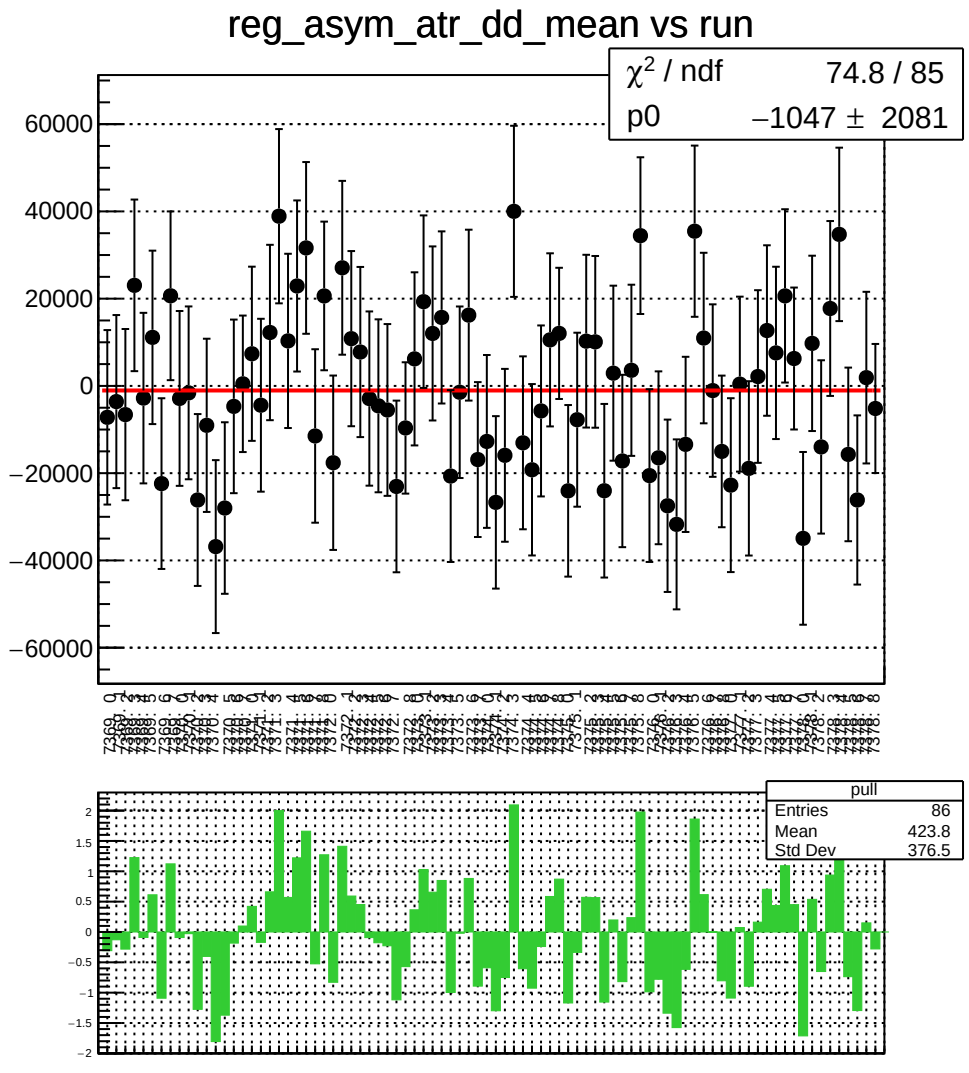

pull1D
Entries 86
Mean 0.009594
Std Dev 1.088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

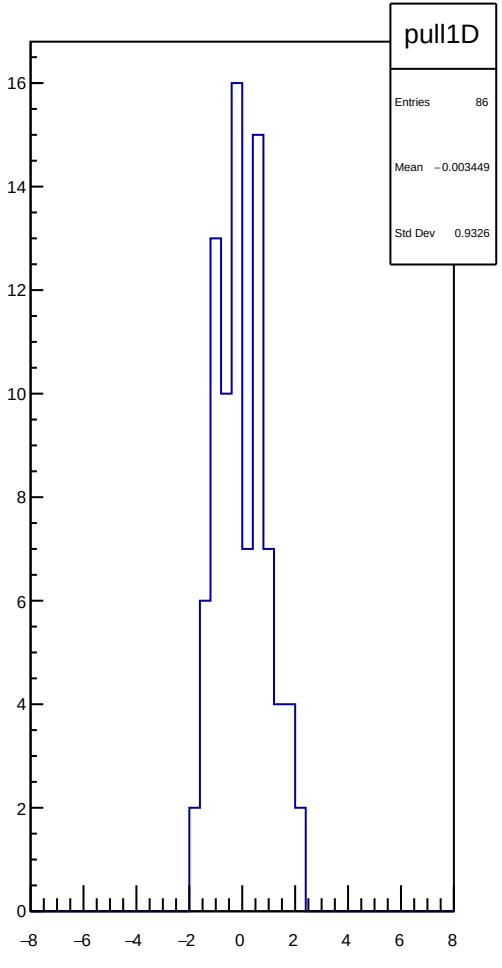

asym_atr_avg_correction_rms vs run
χ² / ndf 2.969e+04 / 85
p0 5042 ± 3.986
6500
6000
5500
5000
4500
4000

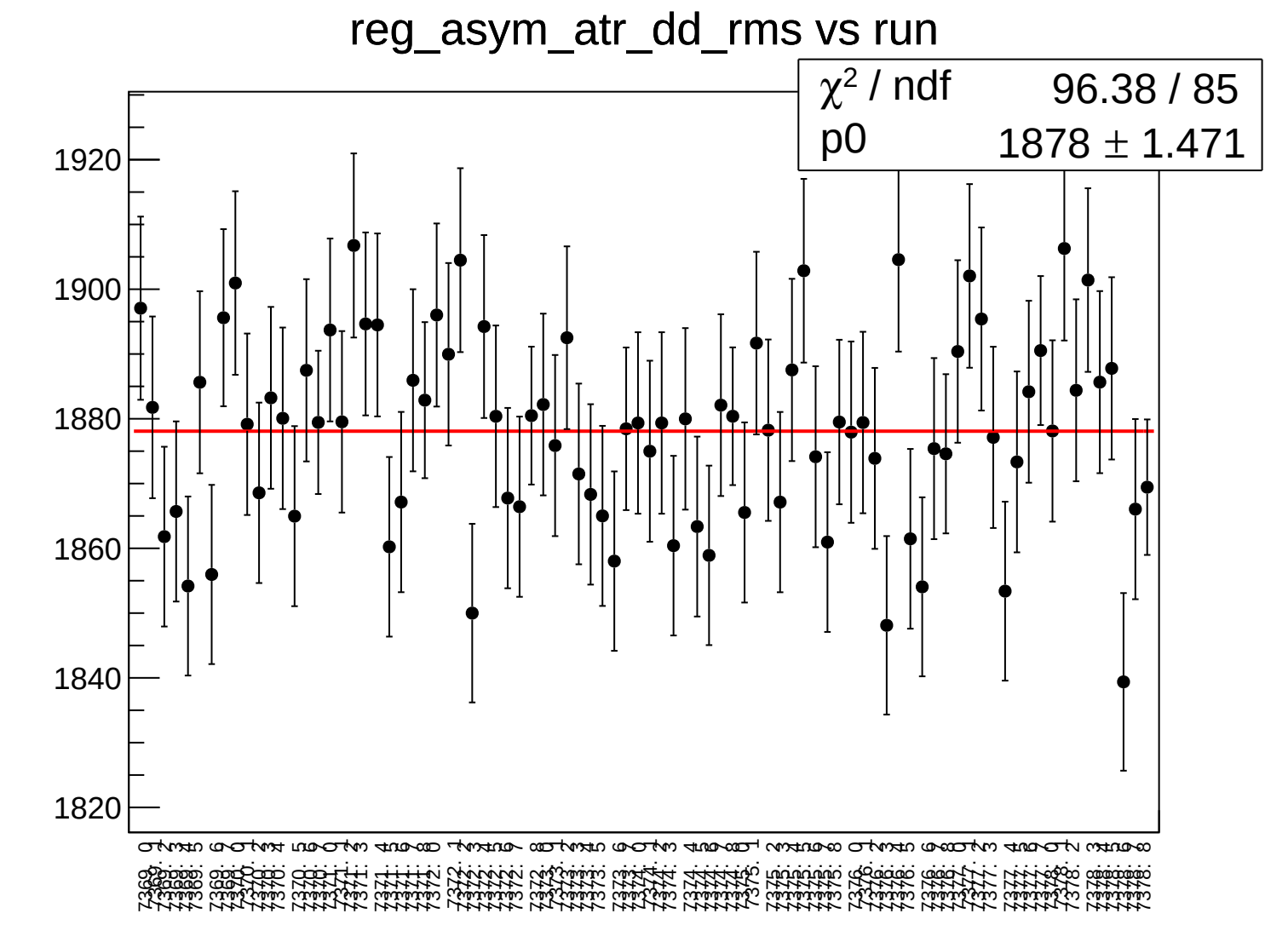

asym_atr_avg_mean vs run
×10^3
χ² / ndf 111.7 / 85
p0 6355 ± 6040
200
100
0
−100
−200
pull
Entries 86
Mean −39.87
Std Dev 135.4
3
2
1
0
−1
−2
−3

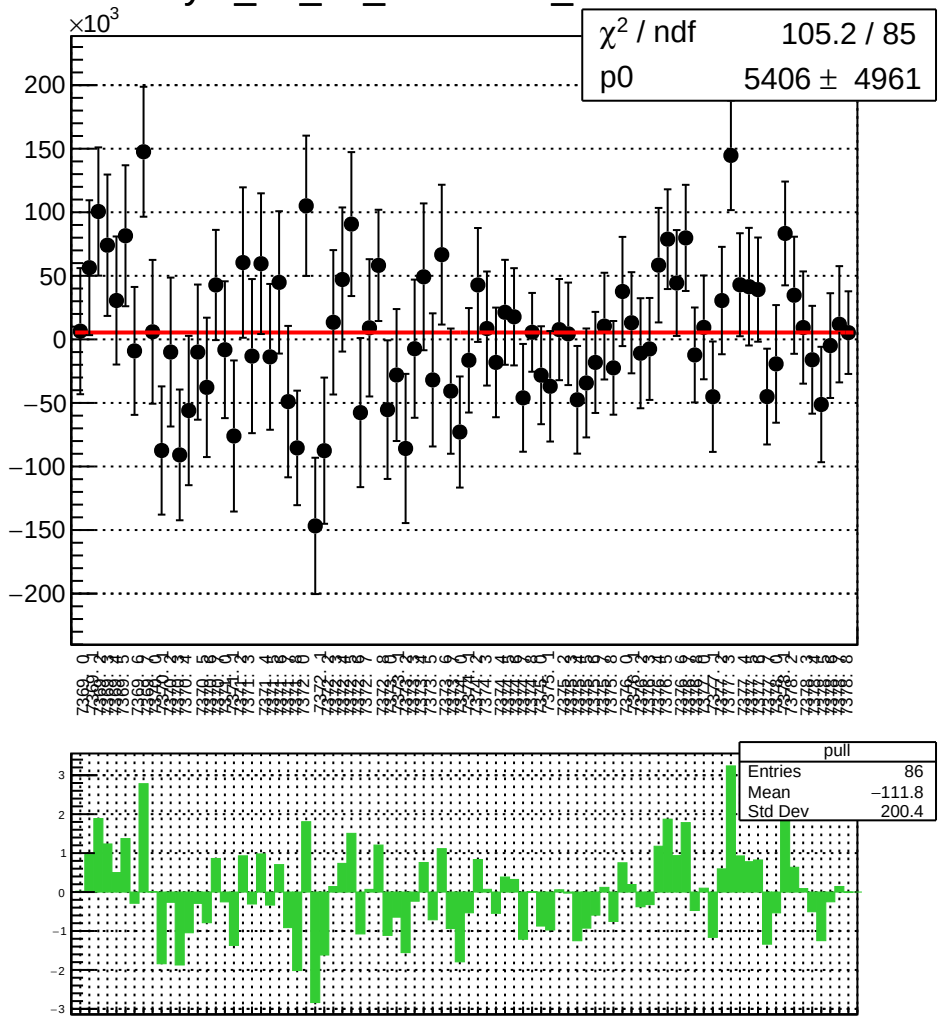

pull1D
Entries 86
Mean −0.00765
Std Dev 1.14
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

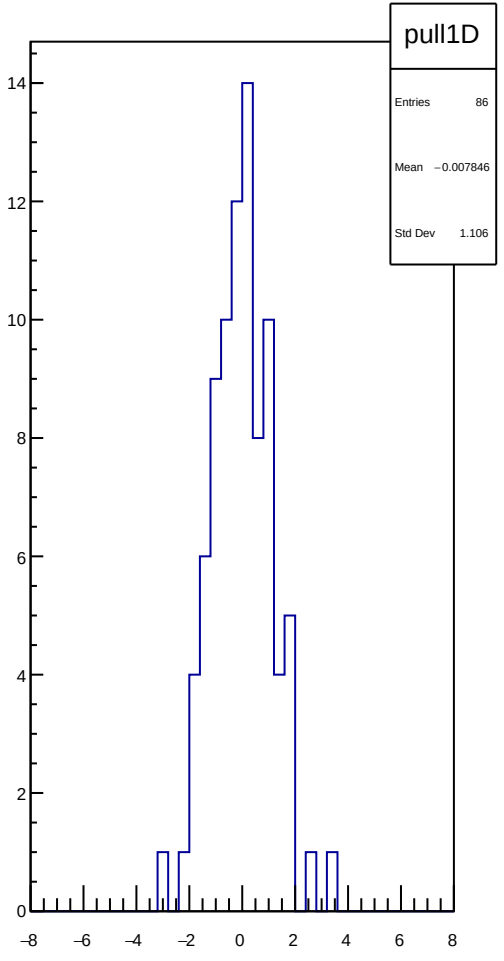

asym_atr_avg_rms vs run
χ² / ndf 2.316e+04 / 85
p0 5414 ± 4.271
7000
6500
6000
5500
5000
4500

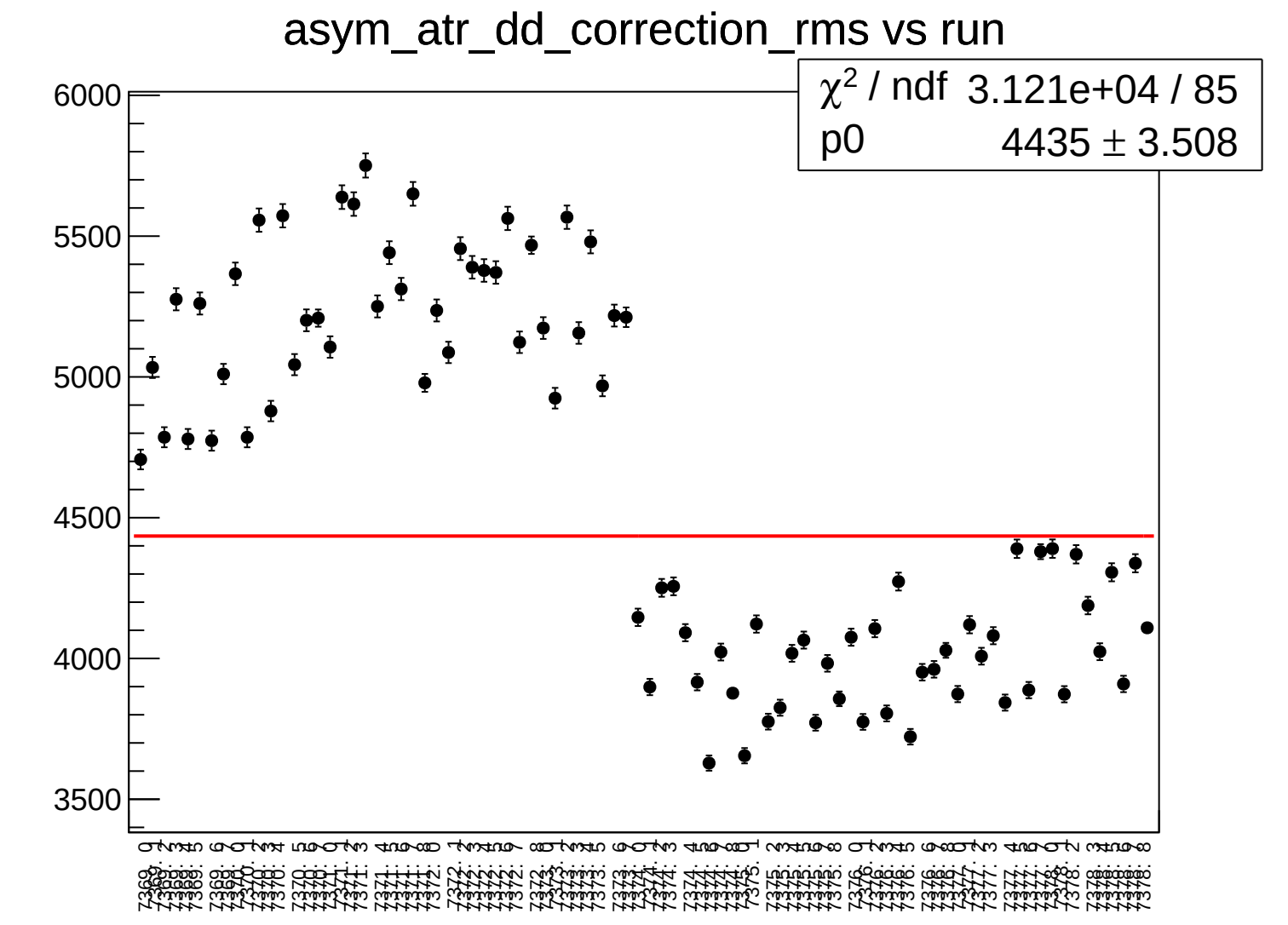

reg_asym_atr_dd_mean vs run
χ² / ndf 74.8 / 85
p0 −1047 ± 2081
pull
Entries 86
Mean 423.8
Std Dev 376.5

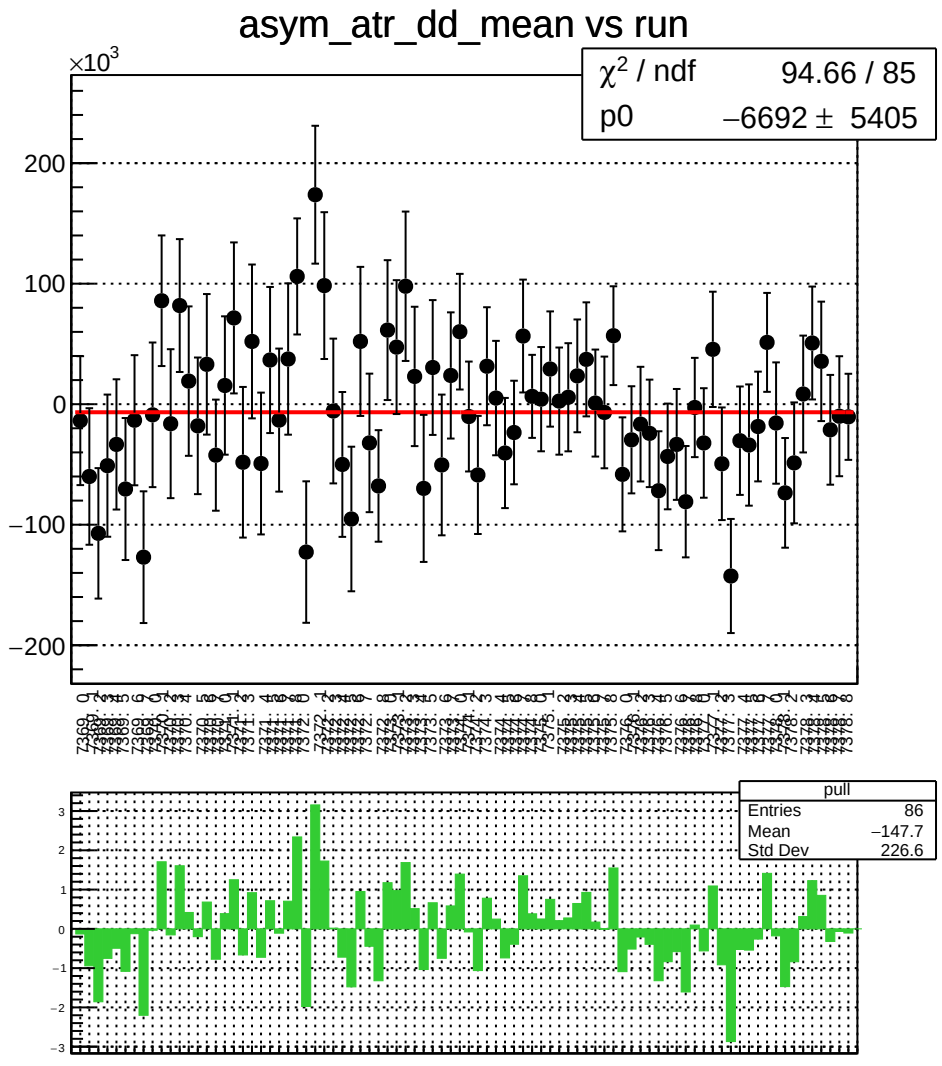

pull1D
Entries 86
Mean −0.003449
Std Dev 0.9326

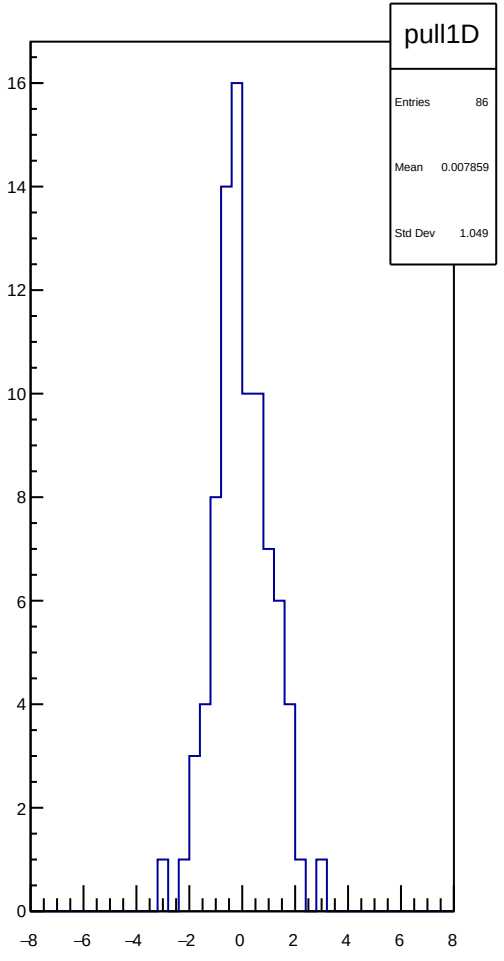

reg_asym_atr_dd_rms vs run
χ² / ndf 96.38 / 85
p0 1878 ± 1.471
1920
1900
1880
1860
1840
1820

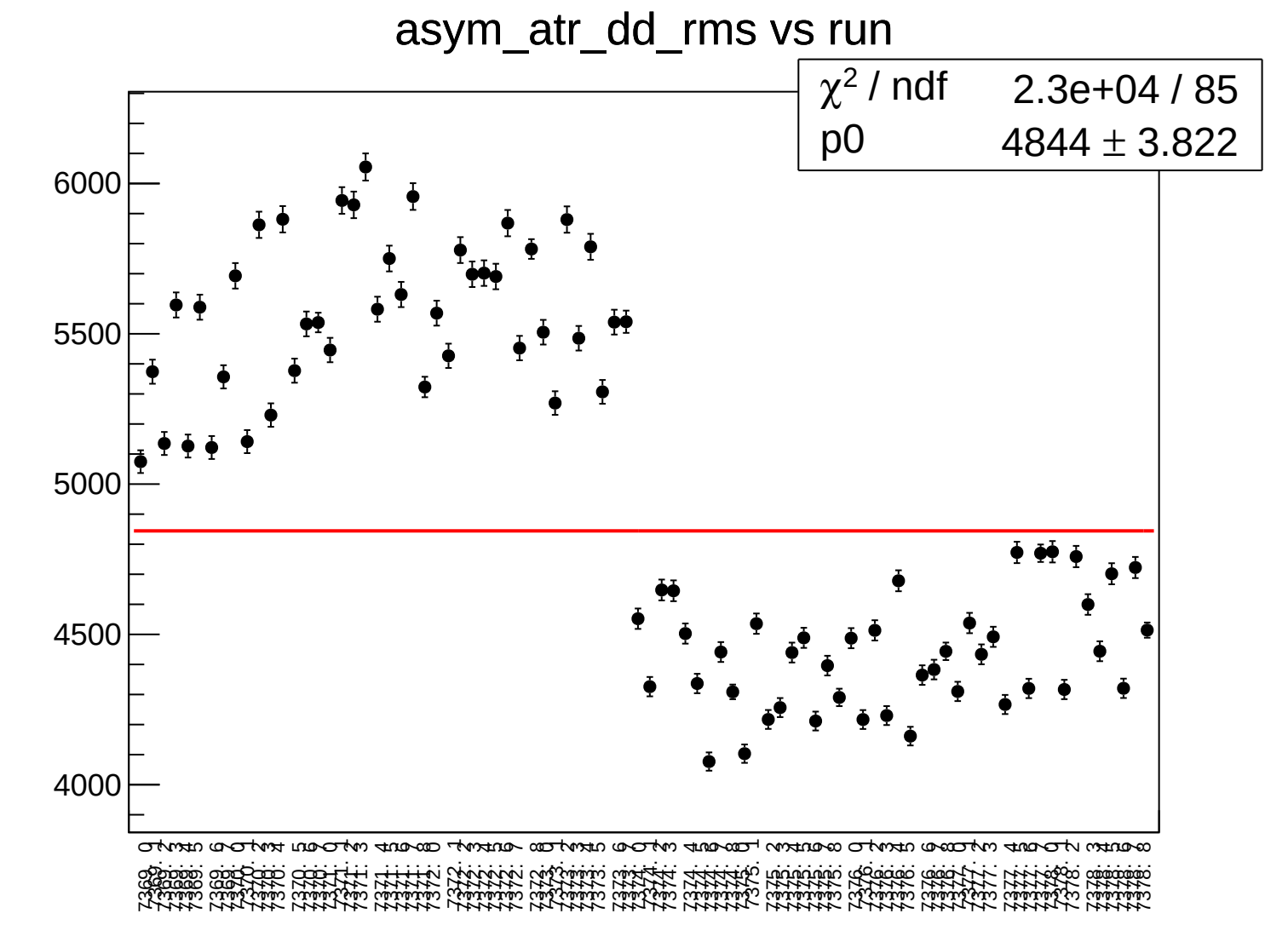

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 105.2 / 85
p0 5406 ± 4961
pull
Entries 86
Mean −111.8
Std Dev 200.4

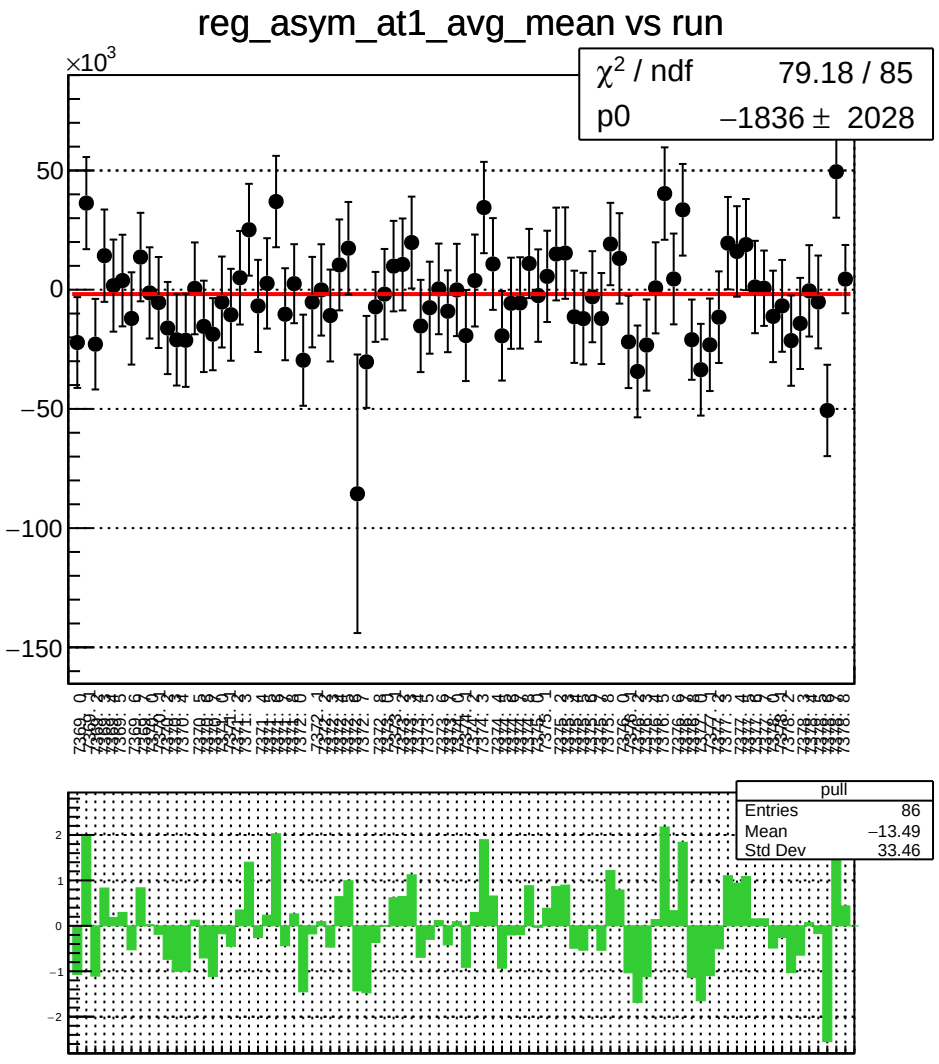

pull1D
Entries 86
Mean −0.007846
Std Dev 1.106

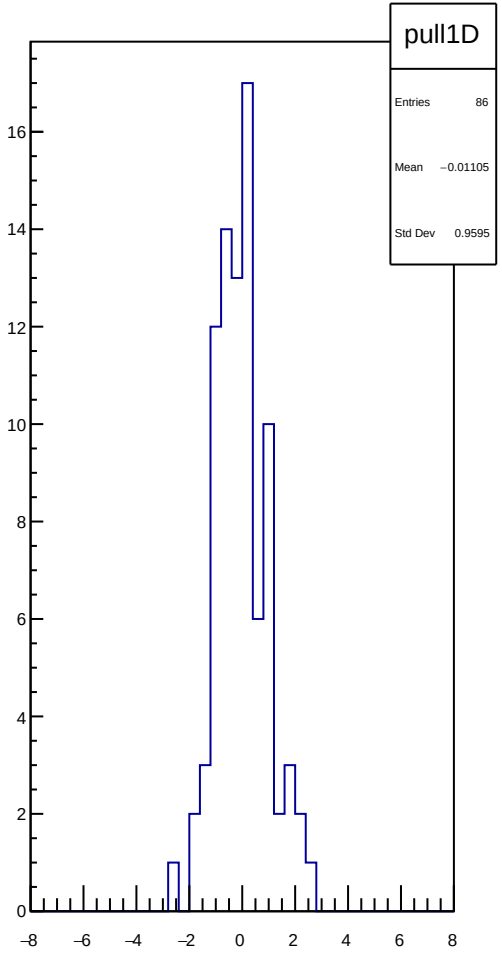

asym_atr_dd_correction_rms vs run
χ² / ndf 3.121e+04 / 85
p0 4435 ± 3.508
6000
5500
5000
4500
4000
3500

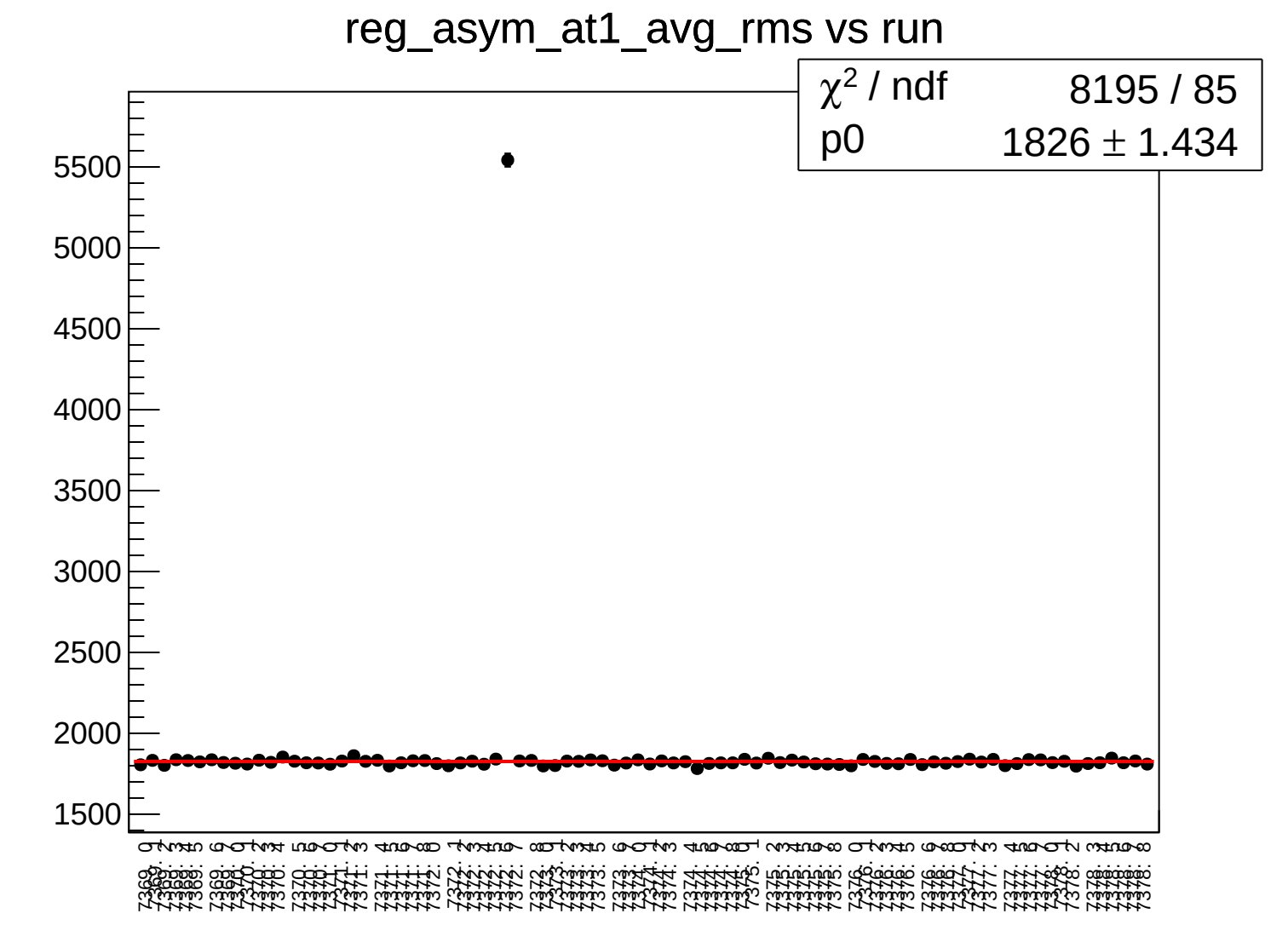

asym_atr_dd_mean vs run
×10^3
χ² / ndf 94.66 / 85
p0 −6692 ± 5405
200
100
0
−100
−200
pull
Entries 86
Mean −147.7
Std Dev 226.6
3
2
1
0
−1
−2
−3

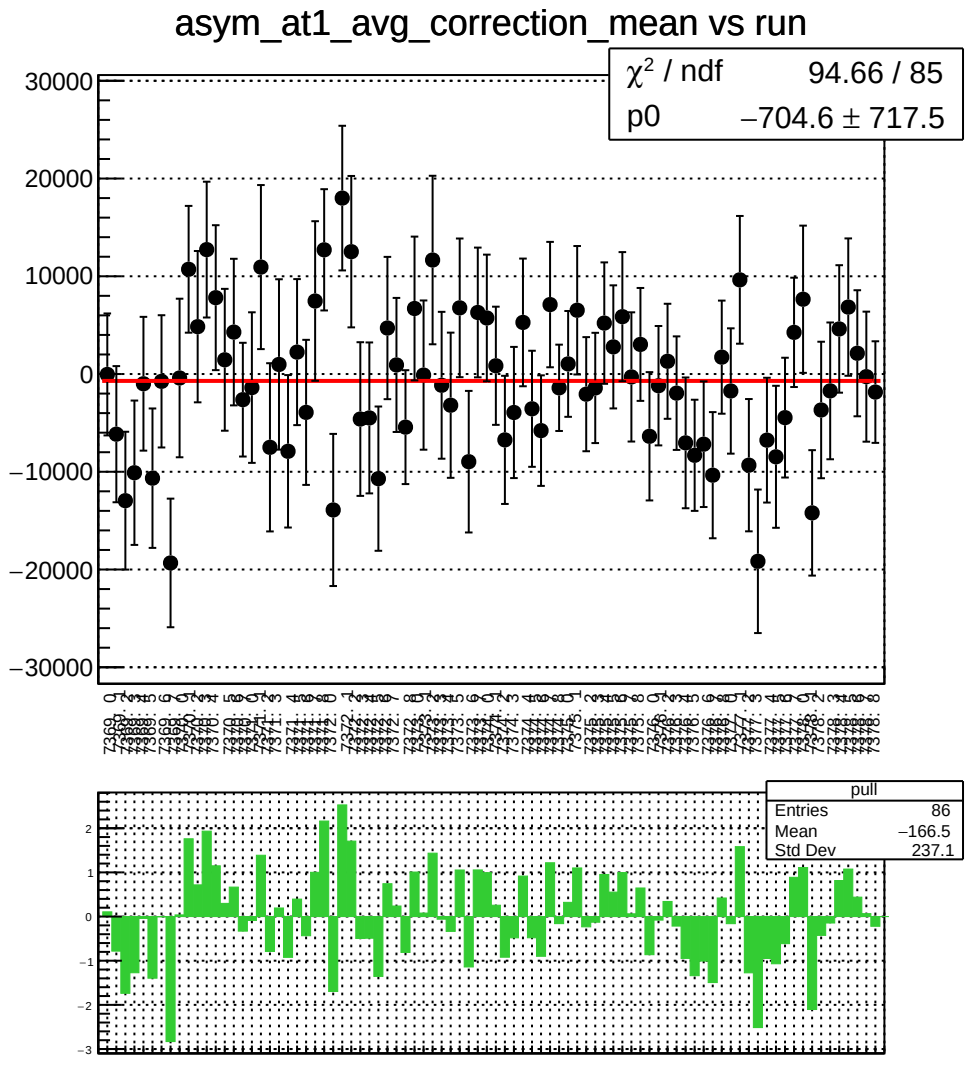

pull1D
Entries 86
Mean 0.007859
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

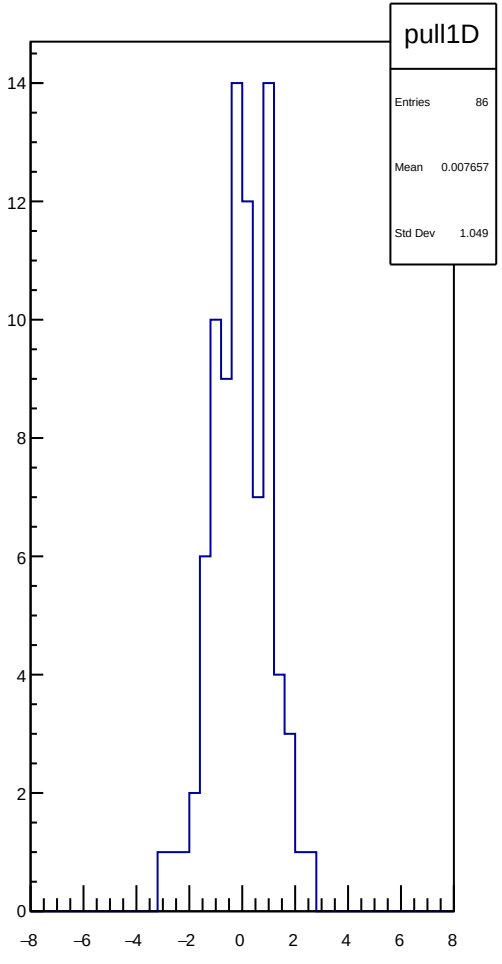

asym_atr_dd_rms vs run
χ² / ndf 2.3e+04 / 85
p0 4844 ± 3.822
6000
5500
5000
4500
4000

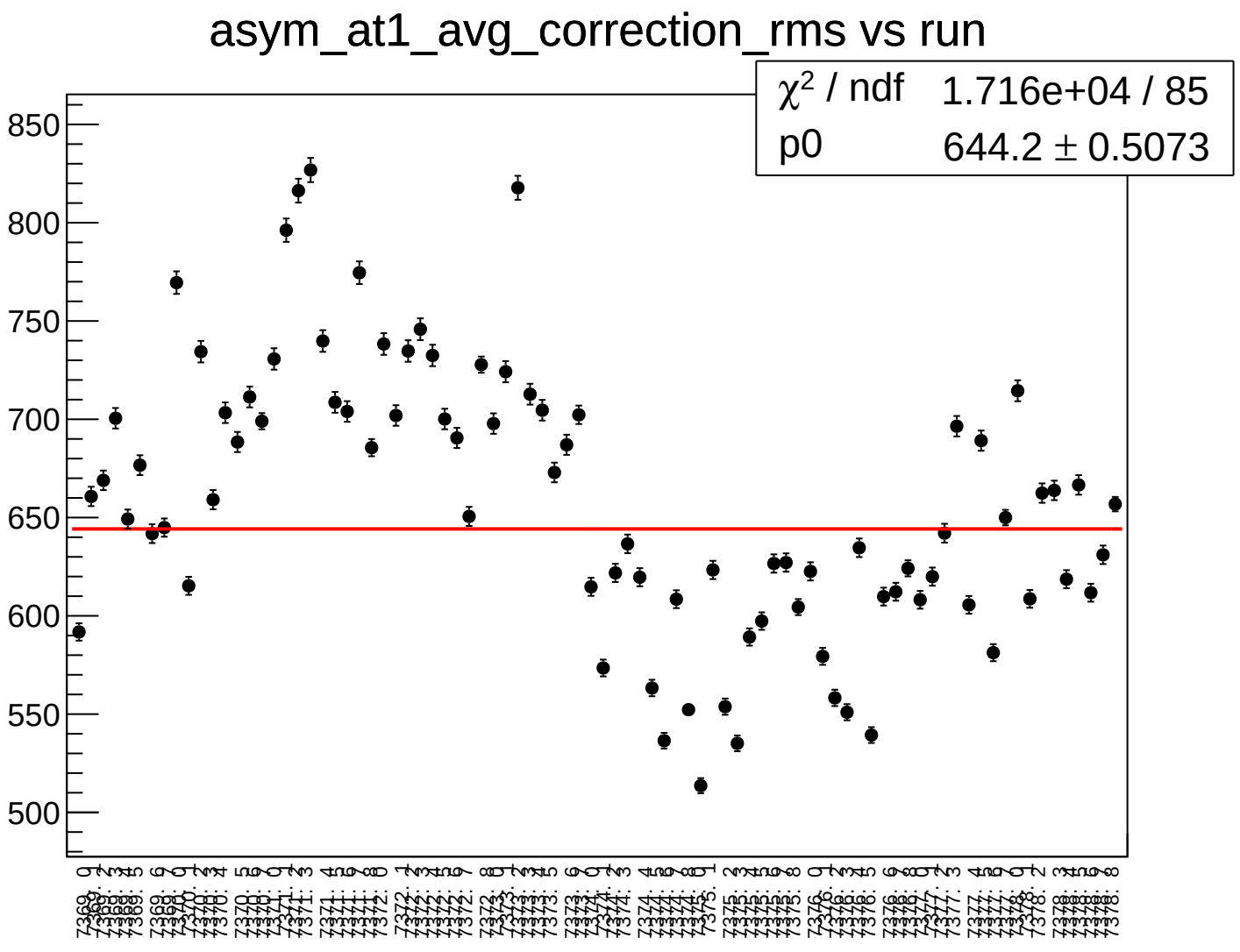

reg_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 79.18 / 85
p0 −1836 ± 2028
50
0
−50
−100
−150
pull
Entries 86
Mean −13.49
Std Dev 33.46
2
1
0
−1
−2

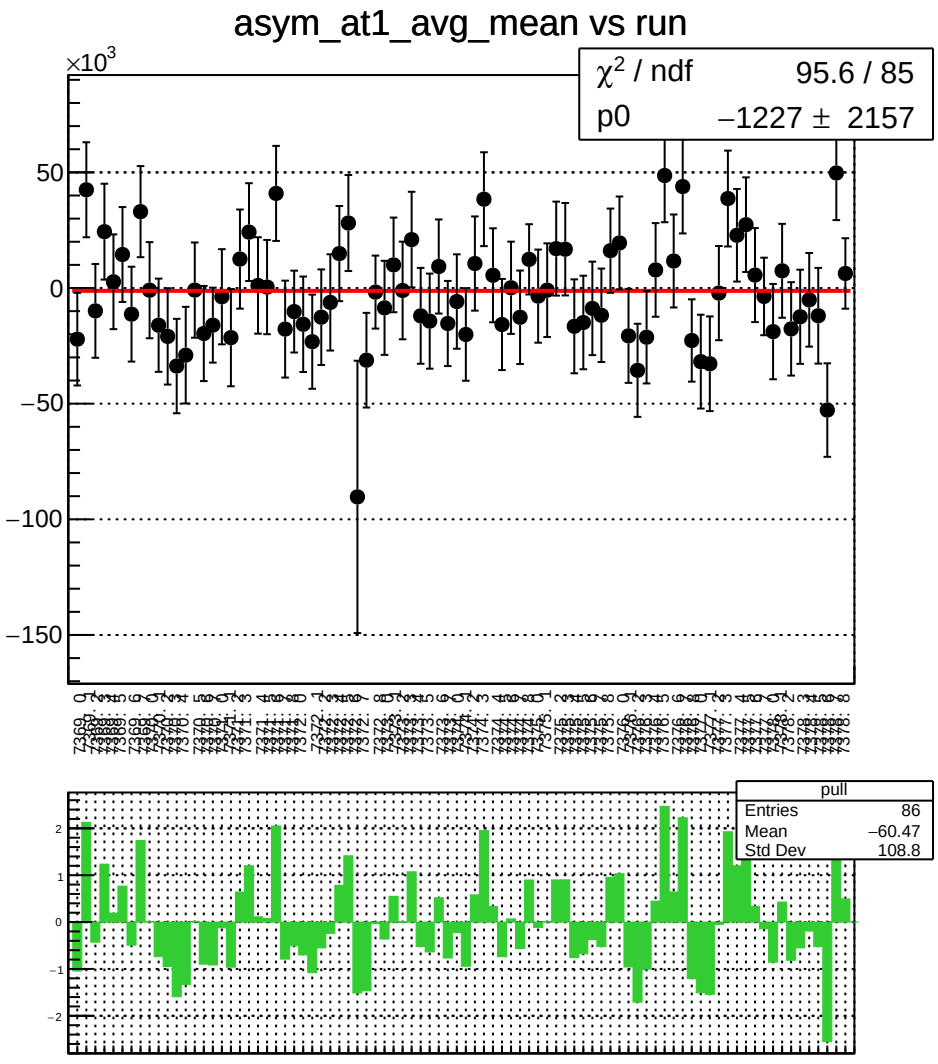

pull1D
Entries 86
Mean −0.01105
Std Dev 0.9595
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

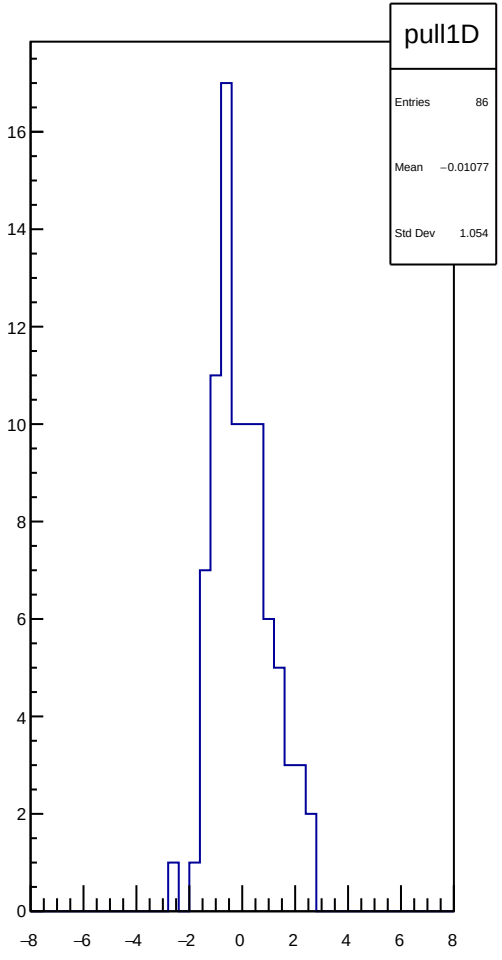

reg_asym_at1_avg_rms vs run
χ^2 / ndf 8195 / 85
p0 1826 ± 1.434
5500
5000
4500
4000
3500
3000
2500
2000
1500

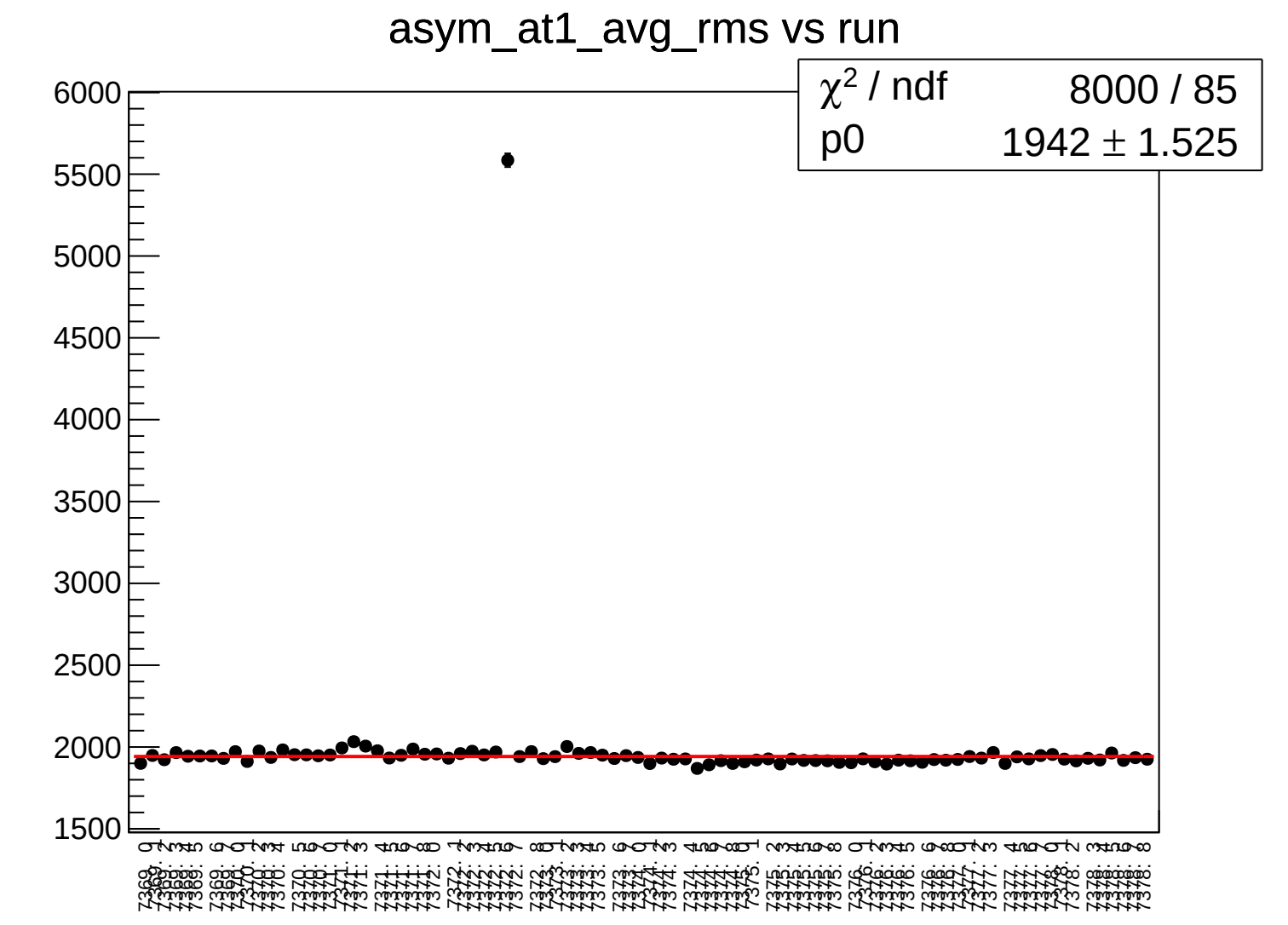

asym_at1_avg_correction_mean vs run
χ² / ndf 94.66 / 85
p0 −704.6 ± 717.5
pull
Entries 86
Mean −166.5
Std Dev 237.1

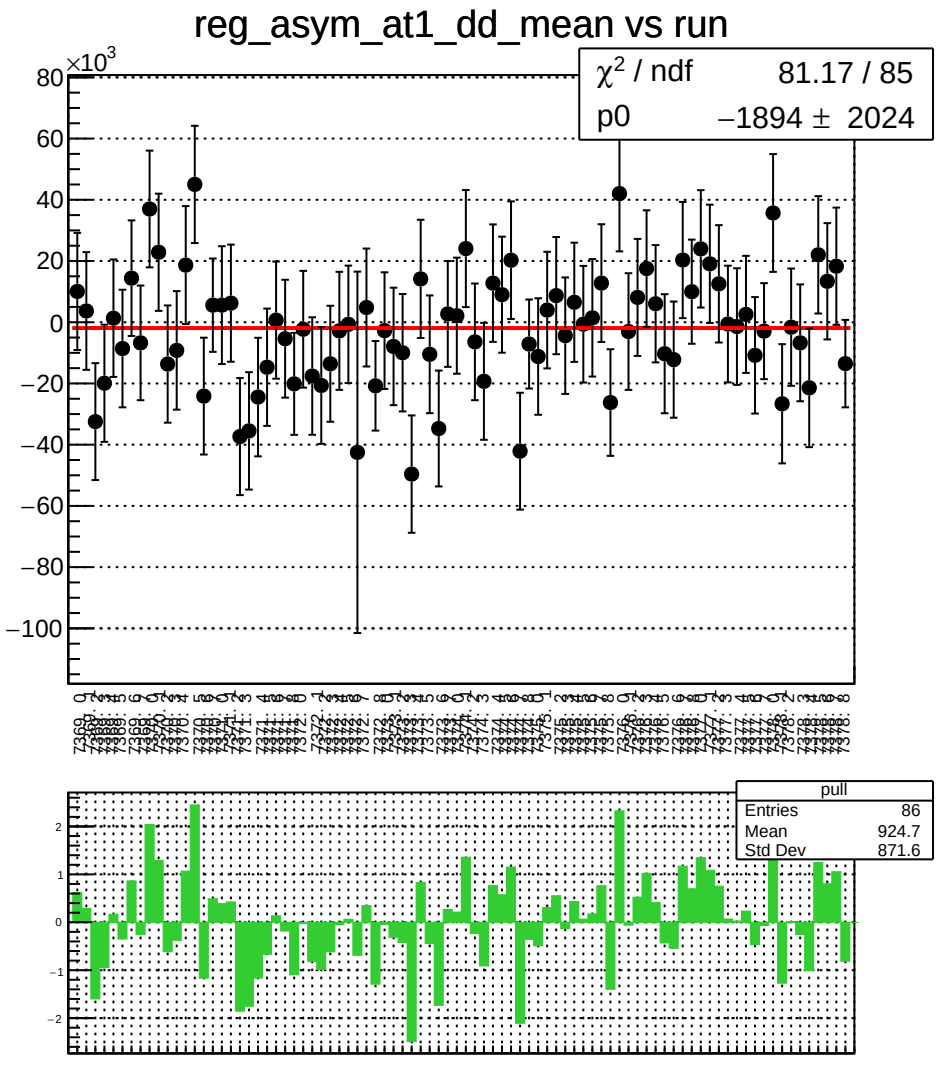

pull1D
Entries 86
Mean 0.007657
Std Dev 1.049

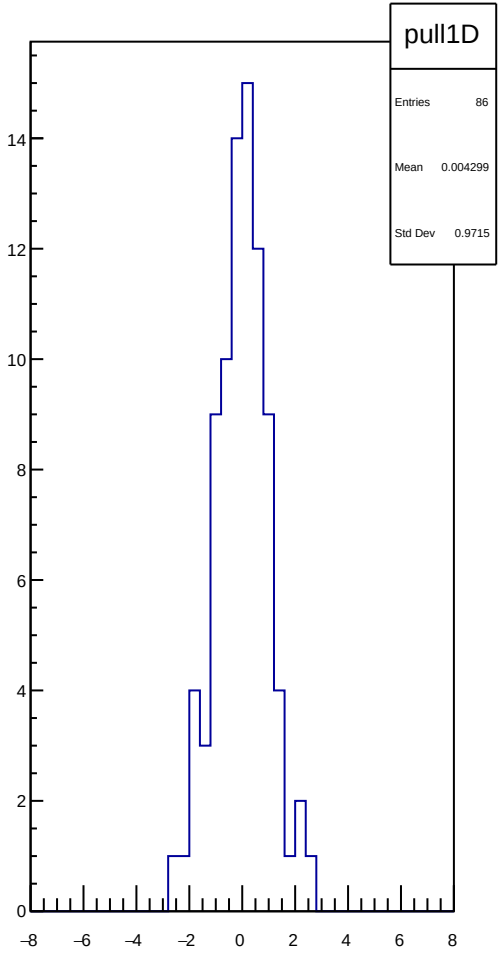

asym_at1_avg_correction_rms vs run
χ² / ndf 1.716e+04 / 85
p0 644.2 ± 0.5073
850
800
750
700
650
600
550
500

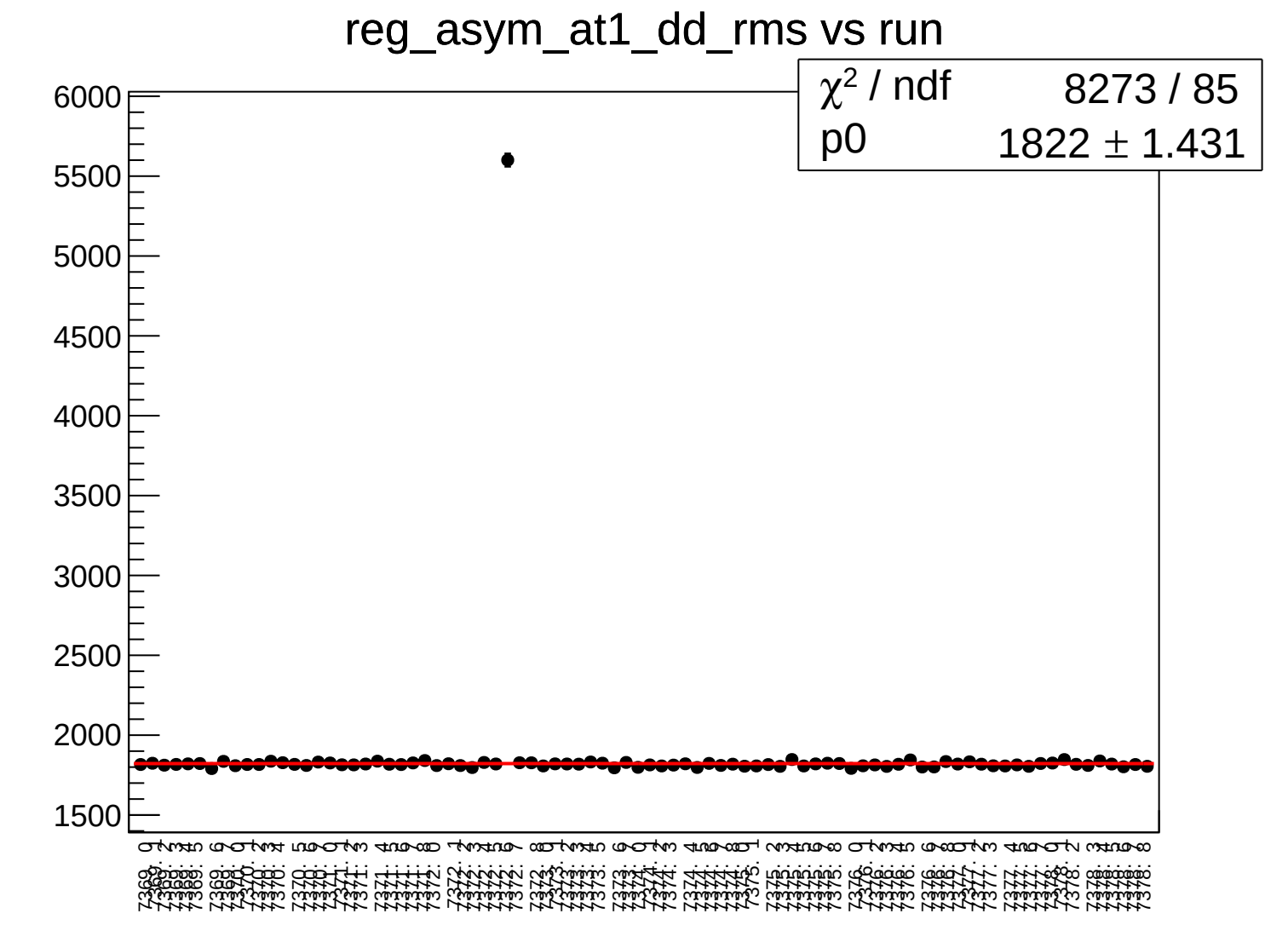

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 95.6 / 85
p0 −1227 ± 2157
50
0
−50
−100
−150
pull
Entries 86
Mean −60.47
Std Dev 108.8
2
1
0
−1
−2

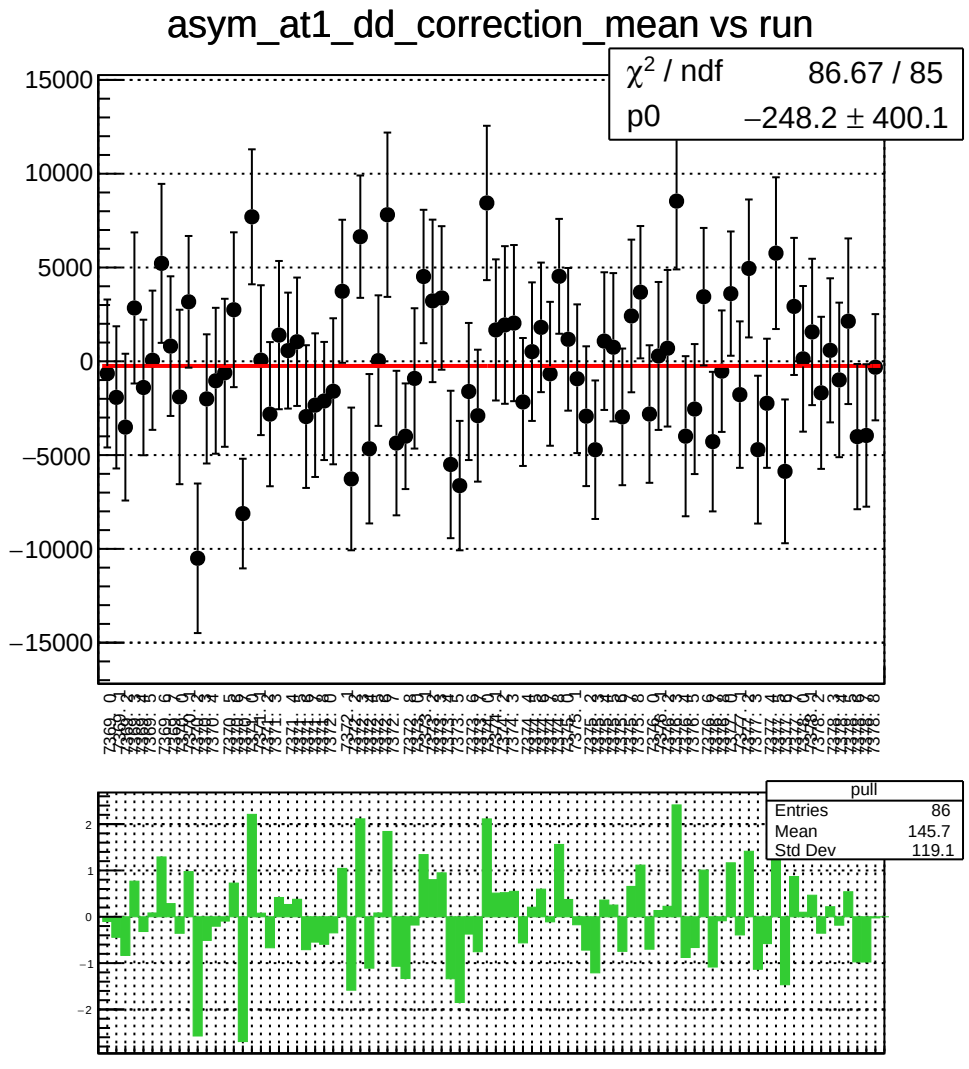

pull1D
Entries 86
Mean −0.01077
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

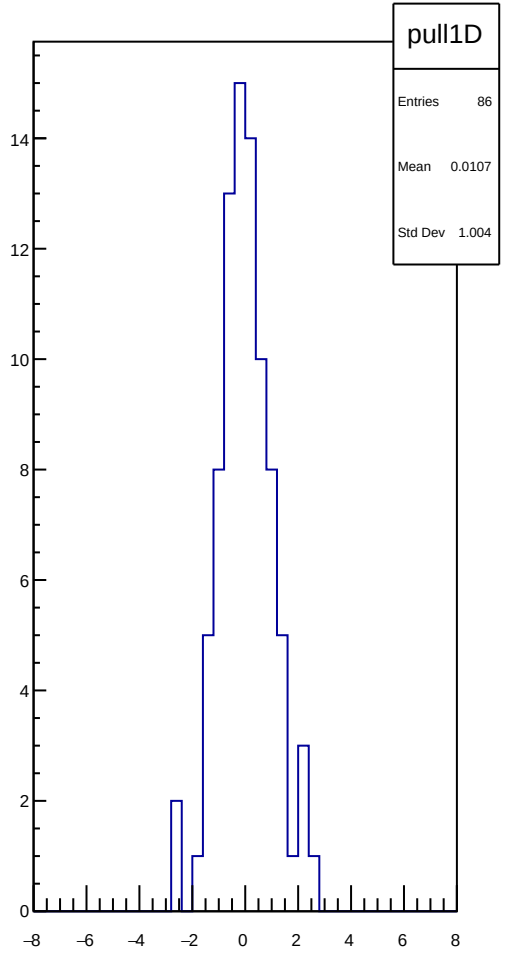

asym_at1_avg_rms vs run
χ² / ndf 8000 / 85
p0 1942 ± 1.525
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

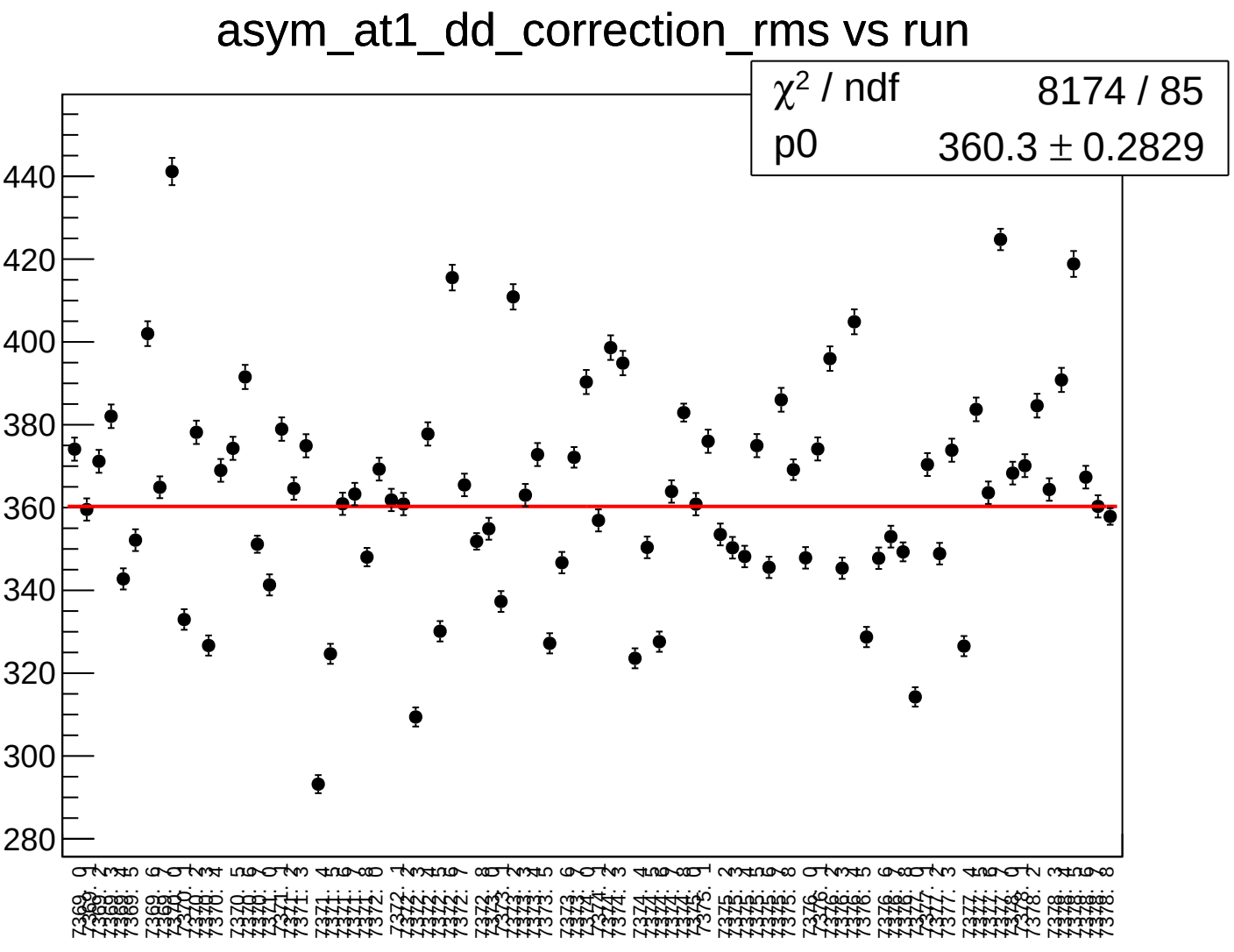

reg_asym_at1_dd_mean vs run
χ² / ndf 81.17 / 85
p0 −1894 ± 2024
×10³
pull
Entries 86
Mean 924.7
Std Dev 871.6

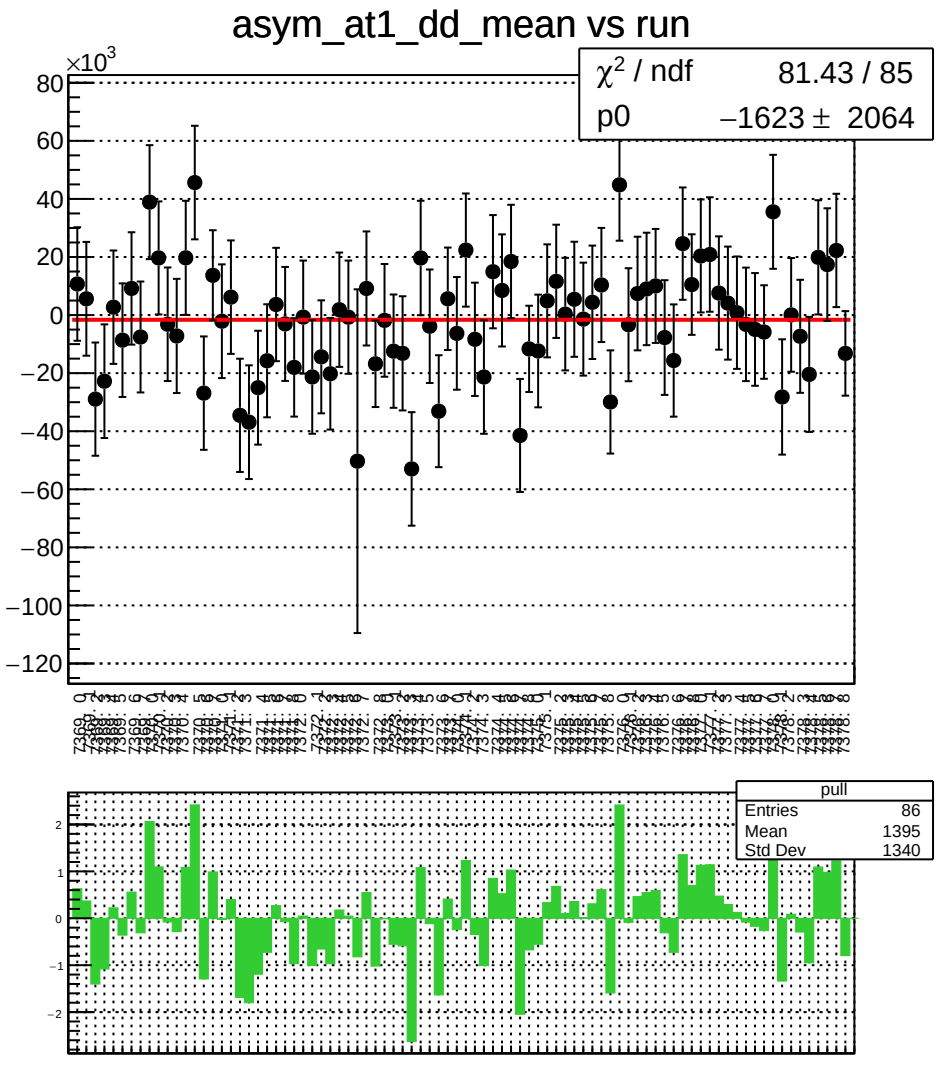

pull1D
Entries 86
Mean 0.004299
Std Dev 0.9715

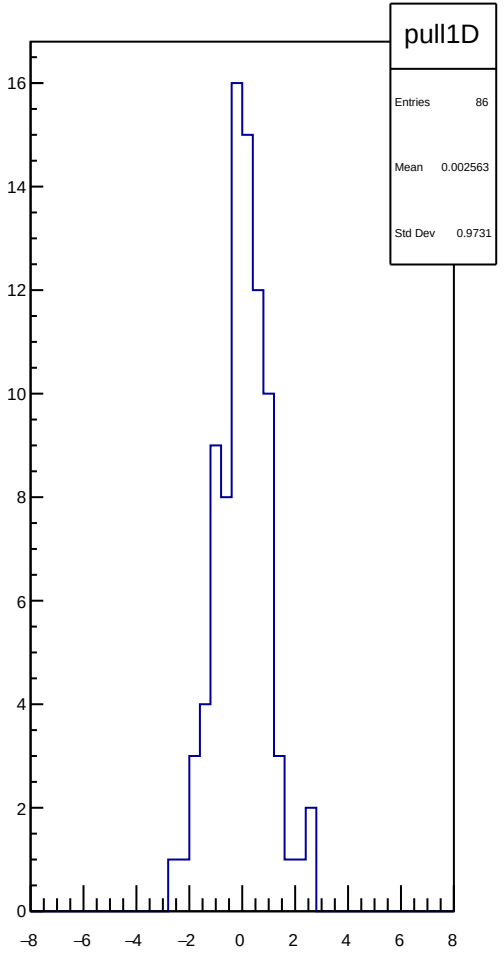

reg_asym_at1_dd_rms vs run
χ² / ndf 8273 / 85
p0 1822 ± 1.431
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

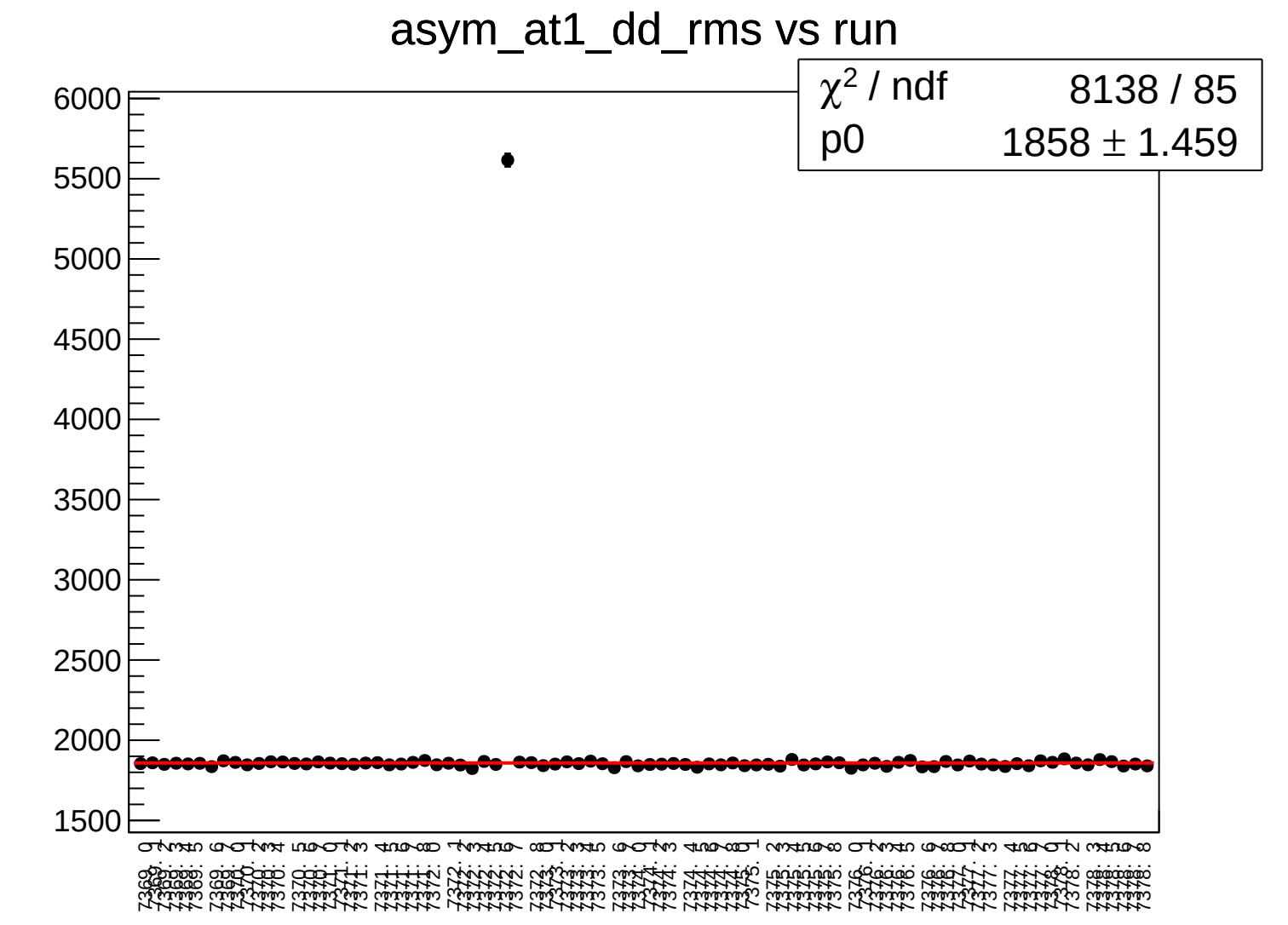

asym_at1_dd_correction_mean vs run
χ² / ndf 86.67 / 85
p0 −248.2 ± 400.1
pull
Entries 86
Mean 145.7
Std Dev 119.1

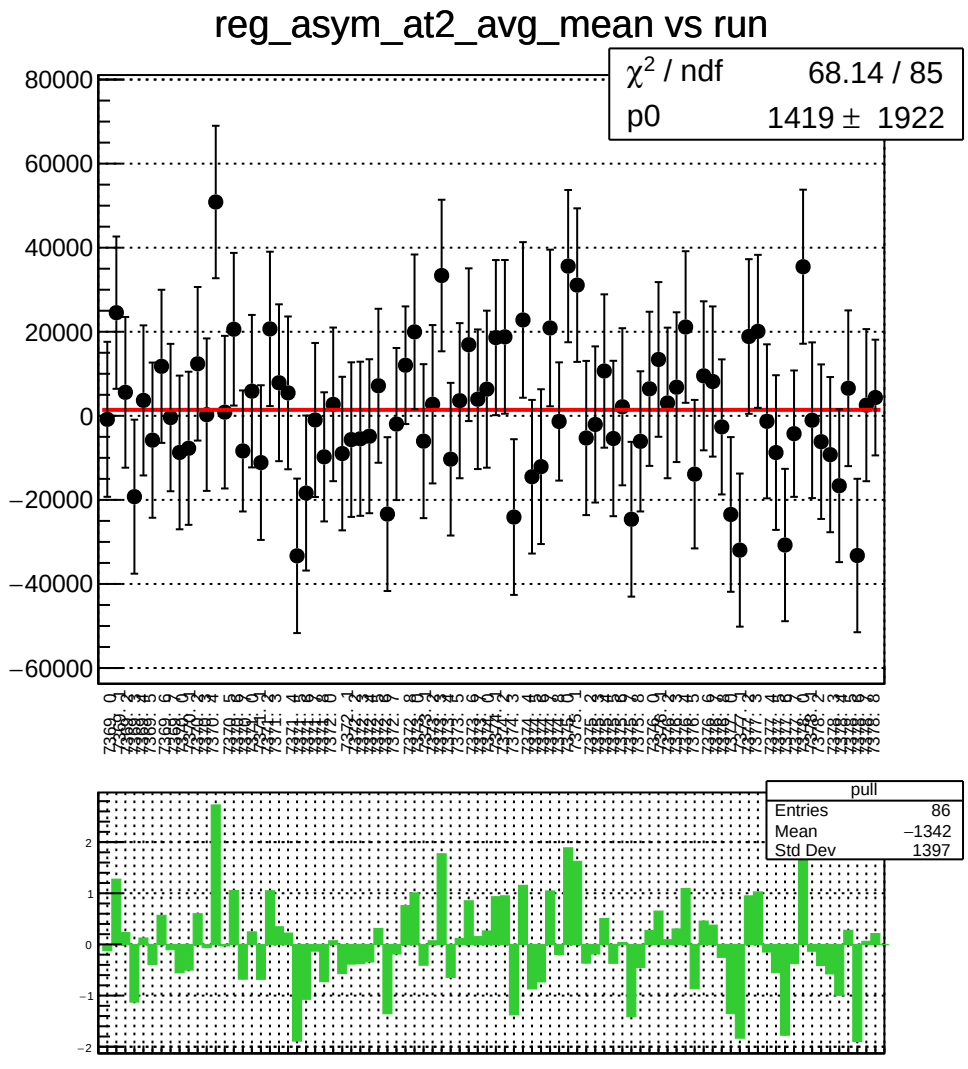

pull1D
Entries 86
Mean 0.0107
Std Dev 1.004

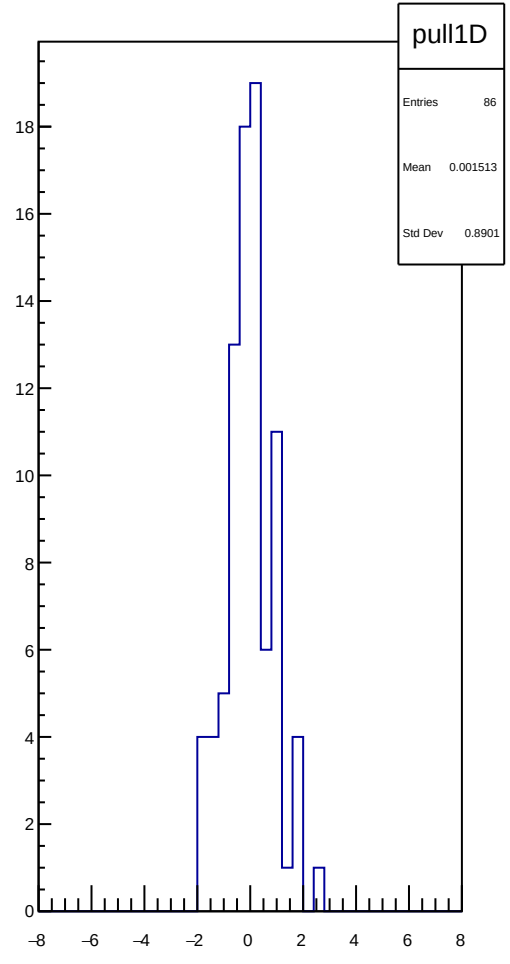

asym_at1_dd_correction_rms vs run
χ² / ndf 8174 / 85
p0 360.3 ± 0.2829
440
420
400
380
360
340
320
300
280

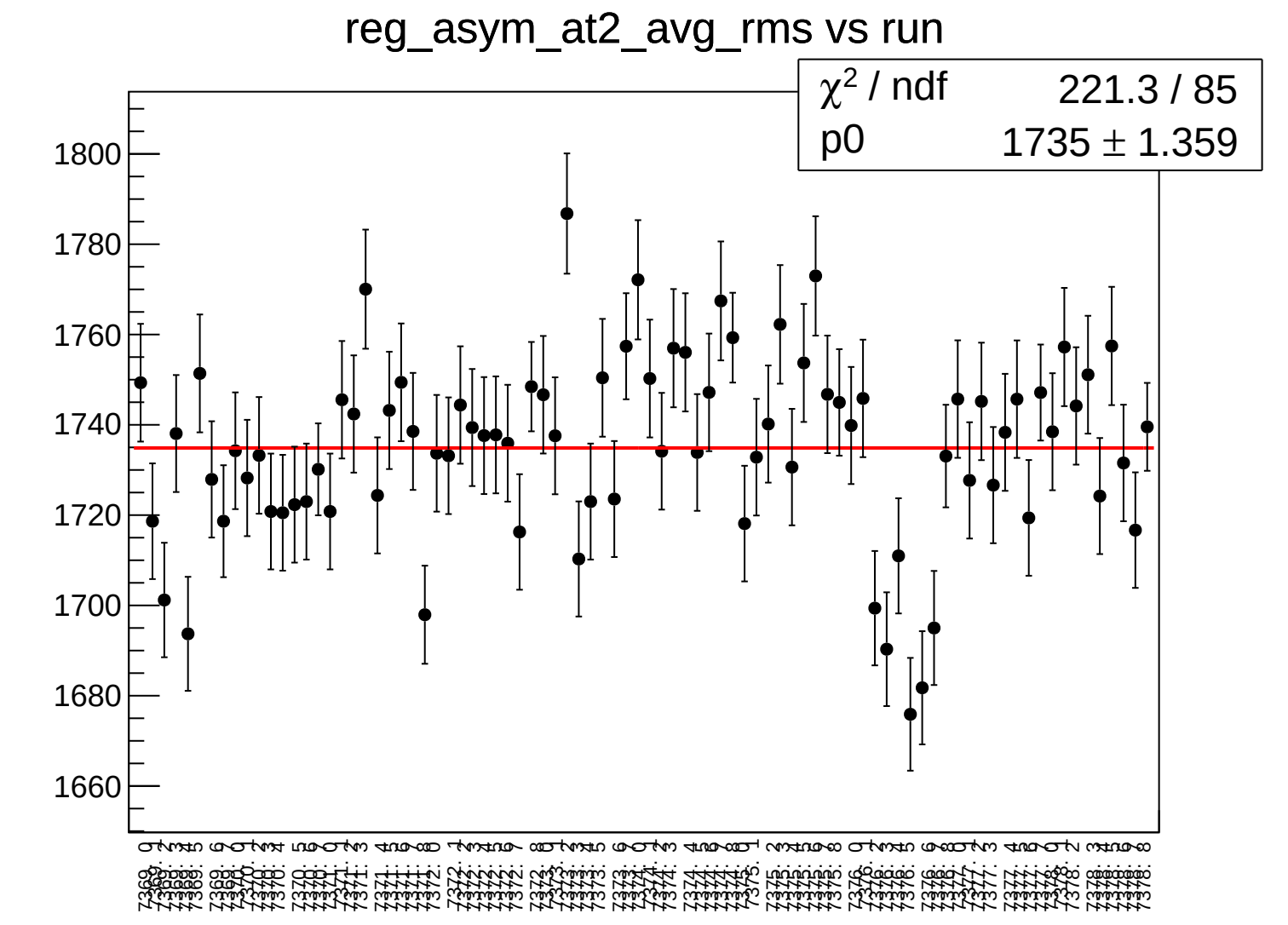

asym_at1_dd_mean vs run
χ² / ndf 81.43 / 85
p0 −1623 ± 2064
×10³
pull
Entries 86
Mean 1395
Std Dev 1340

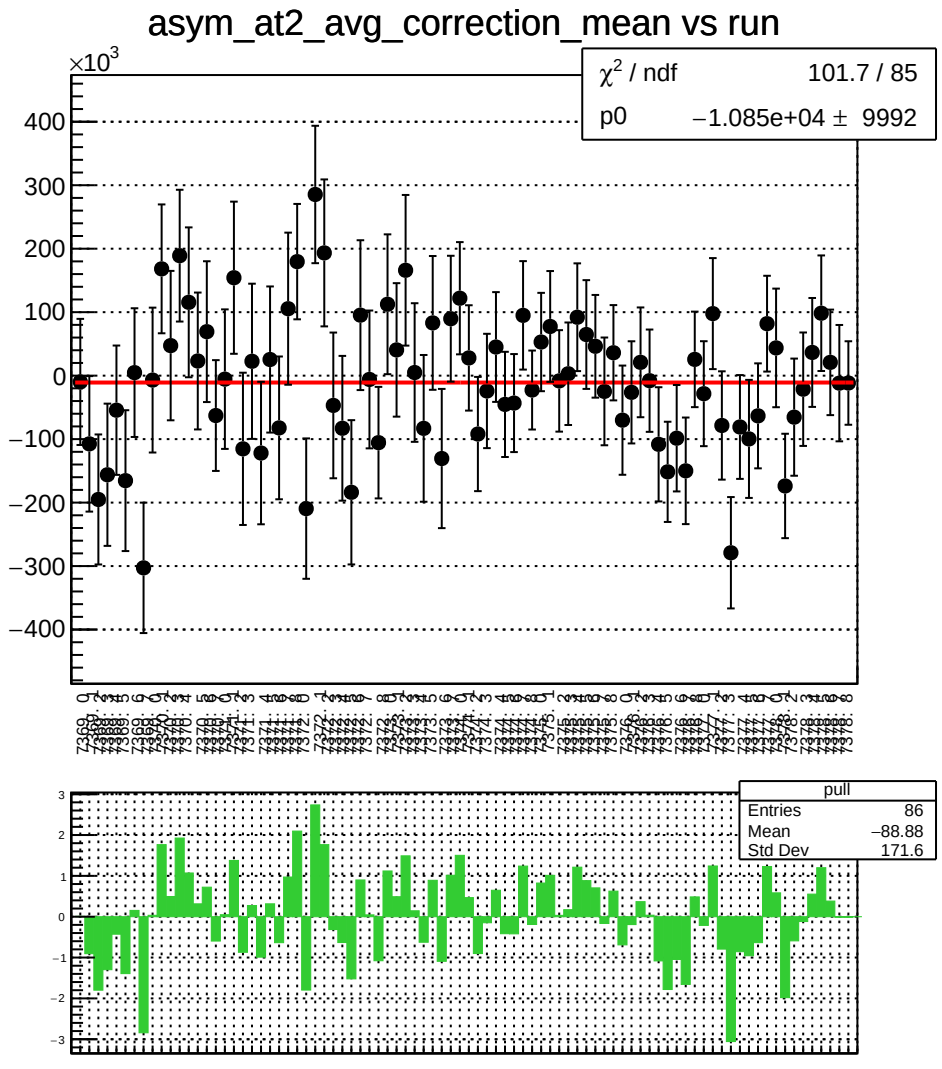

pull1D
Entries 86
Mean 0.002563
Std Dev 0.9731

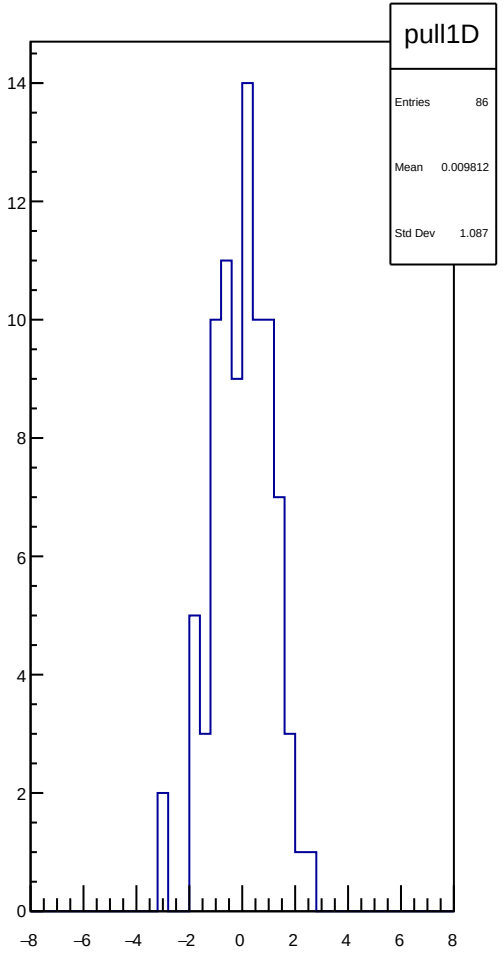

asym_at1_dd_rms vs run
χ^2 / ndf 8138 / 85
p0 1858 ± 1.459
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

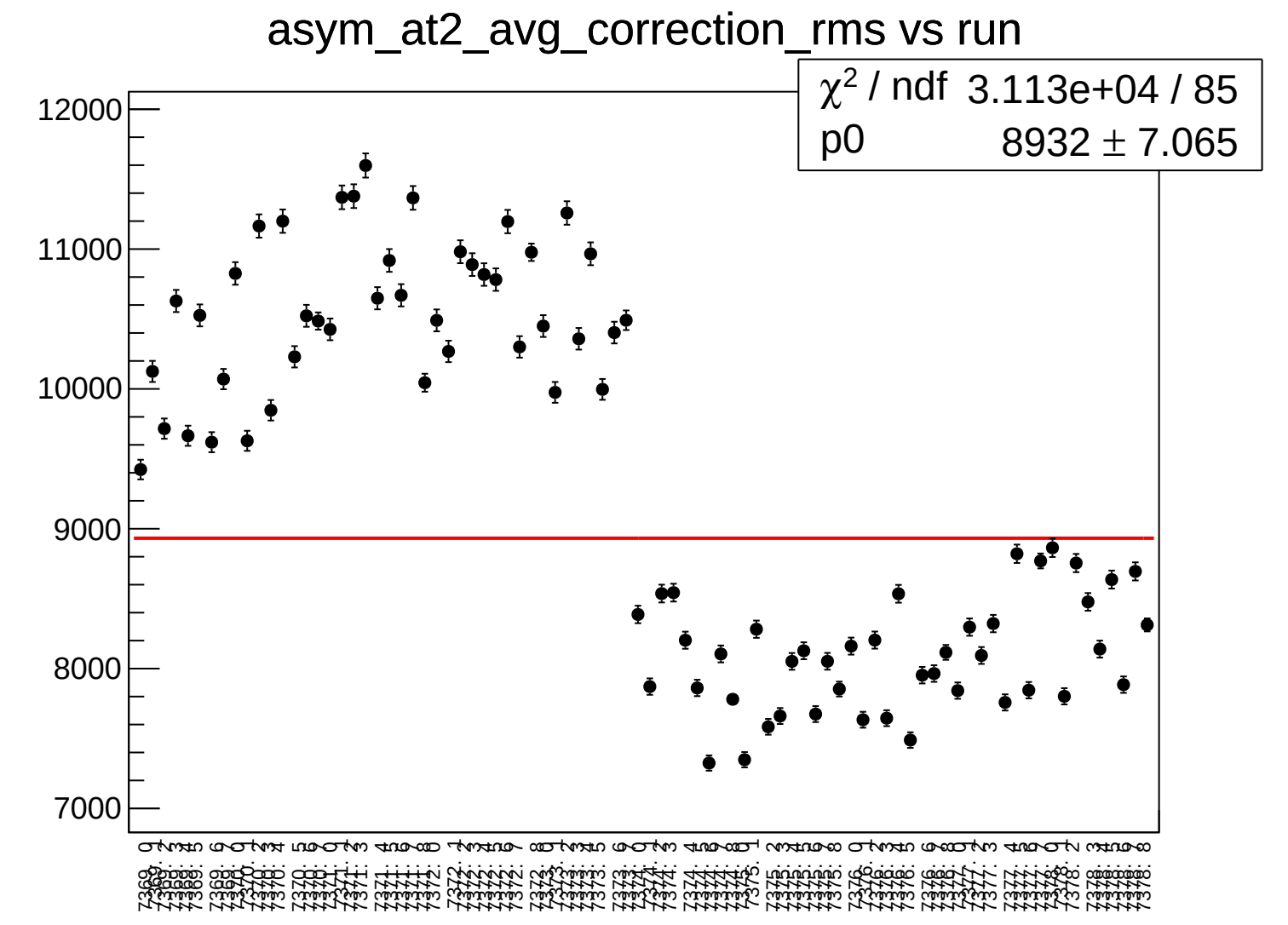

reg_asym_at2_avg_mean vs run
χ² / ndf 68.14 / 85
p0 1419 ± 1922
pull
Entries 86
Mean −1342
Std Dev 1397

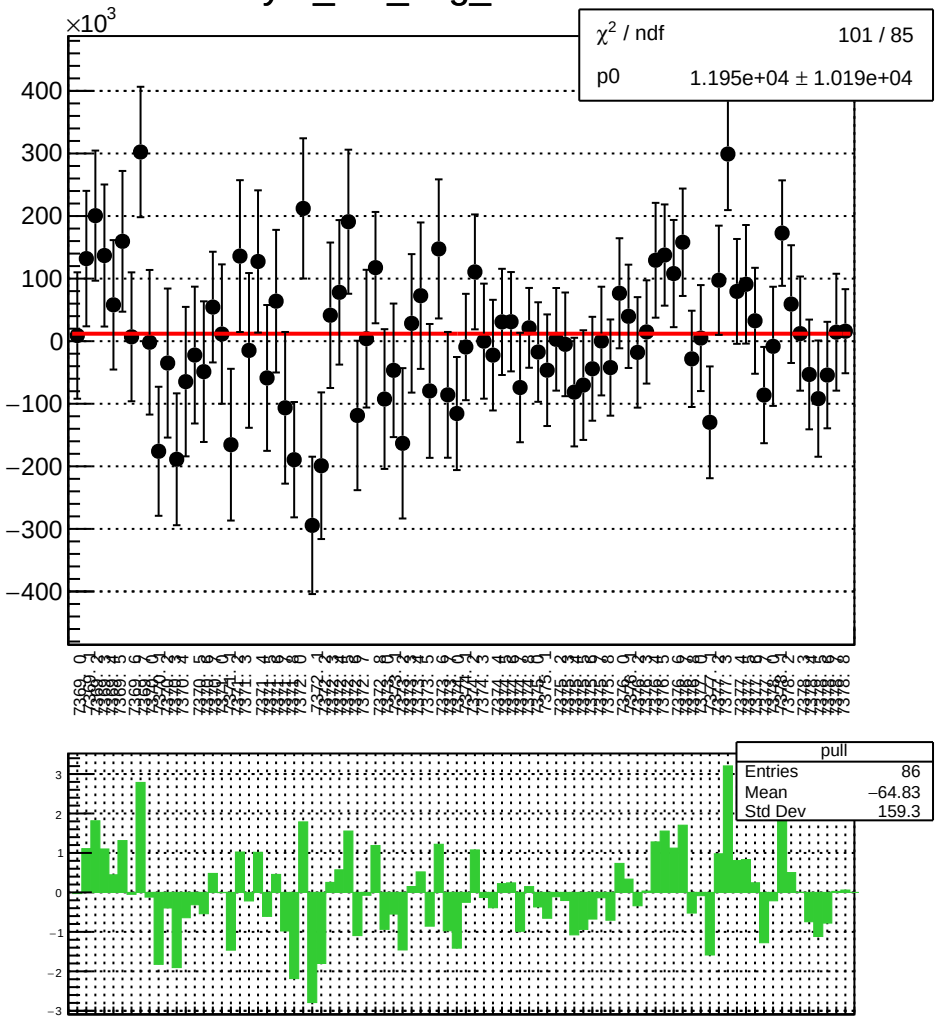

pull1D
Entries 86
Mean 0.001513
Std Dev 0.8901

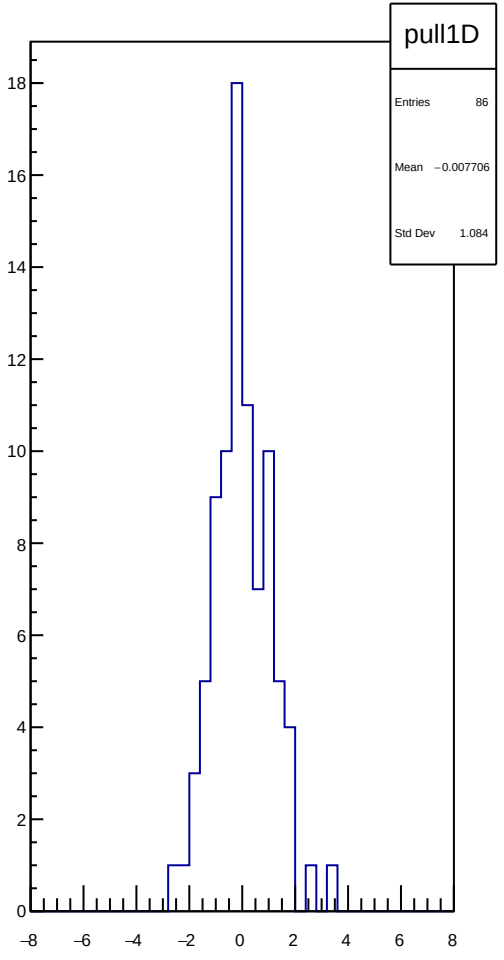

reg_asym_at2_avg_rms vs run
χ² / ndf 221.3 / 85
p0 1735 ± 1.359
1800
1780
1760
1740
1720
1700
1680
1660

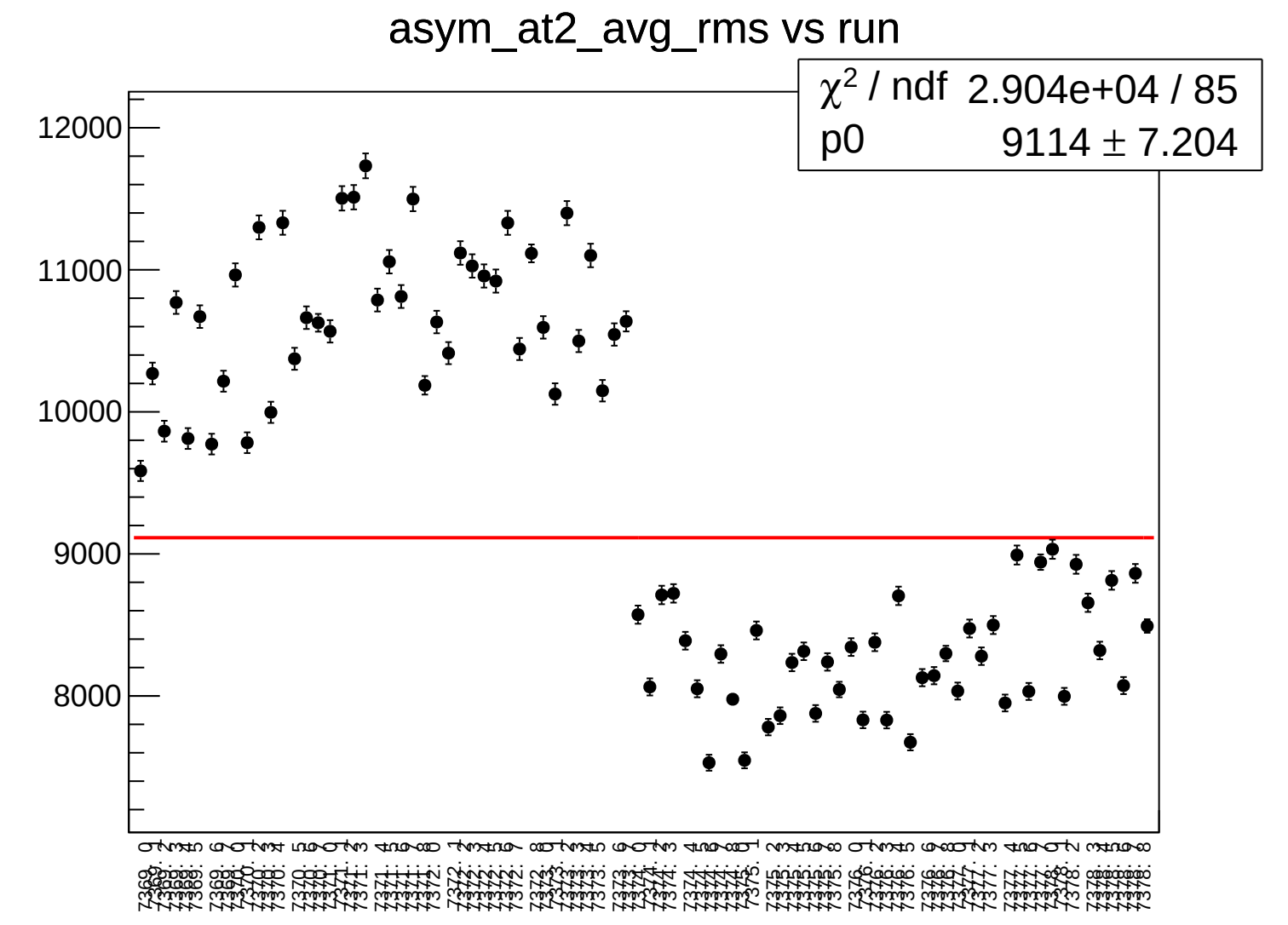

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 101.7 / 85
p0 −1.085e+04 ± 9992
pull
Entries 86
Mean −88.88
Std Dev 171.6

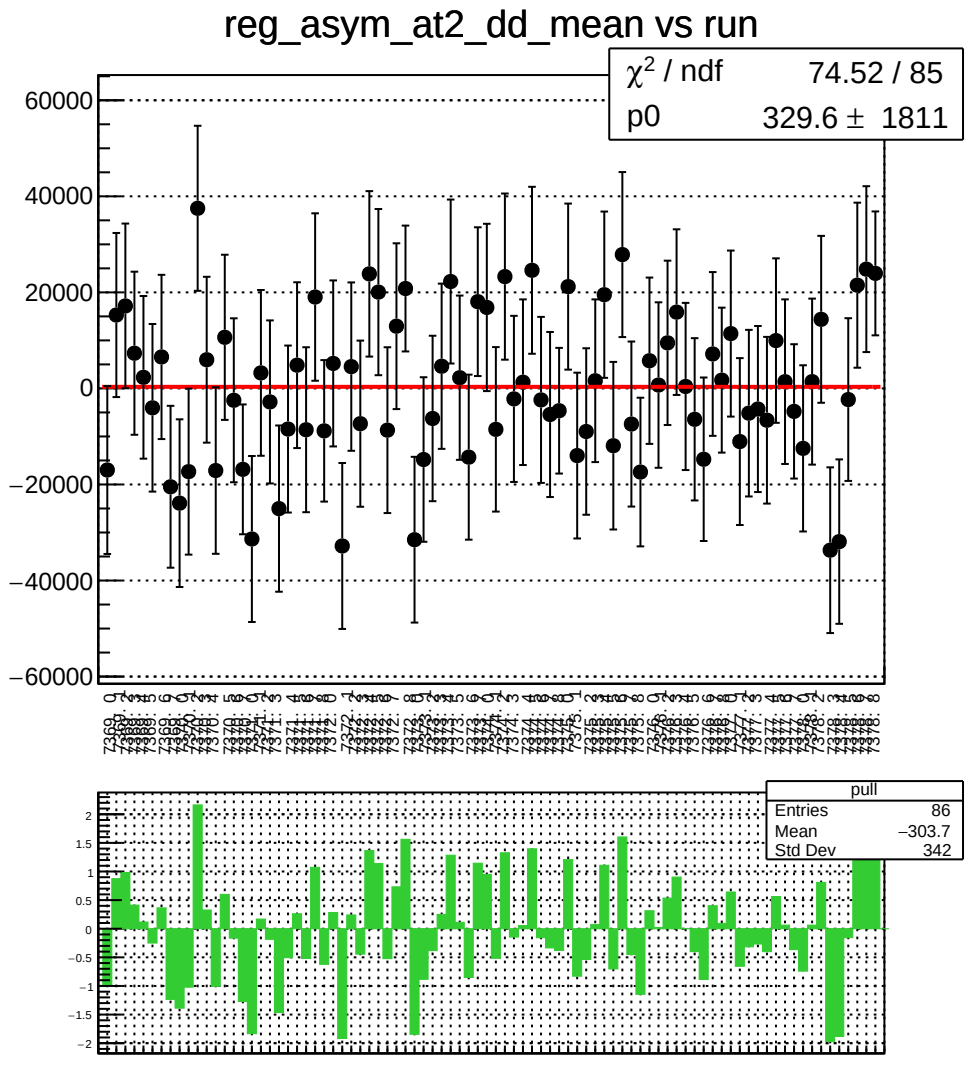

pull1D
Entries 86
Mean 0.009812
Std Dev 1.087

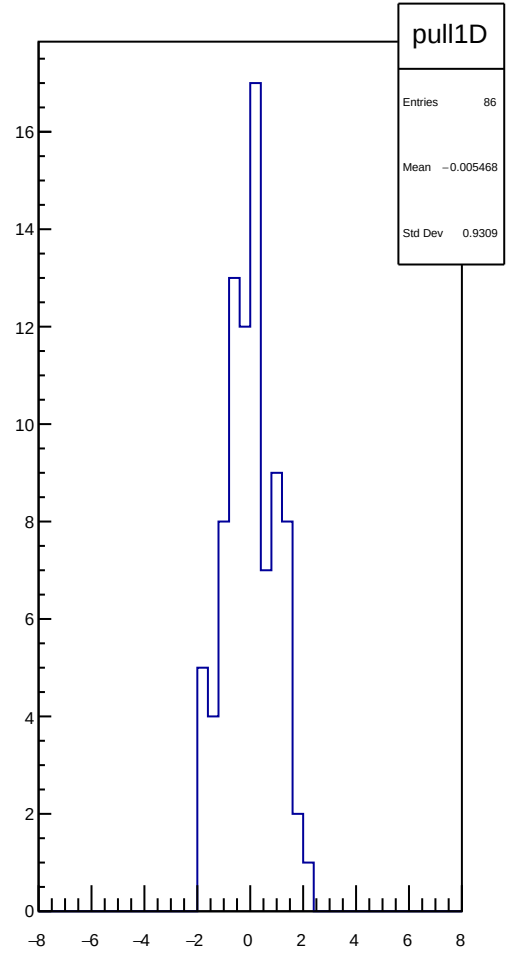

asym_at2_avg_correction_rms vs run
χ² / ndf 3.113e+04 / 85
p0 8932 ± 7.065
12000
11000
10000
9000
8000
7000

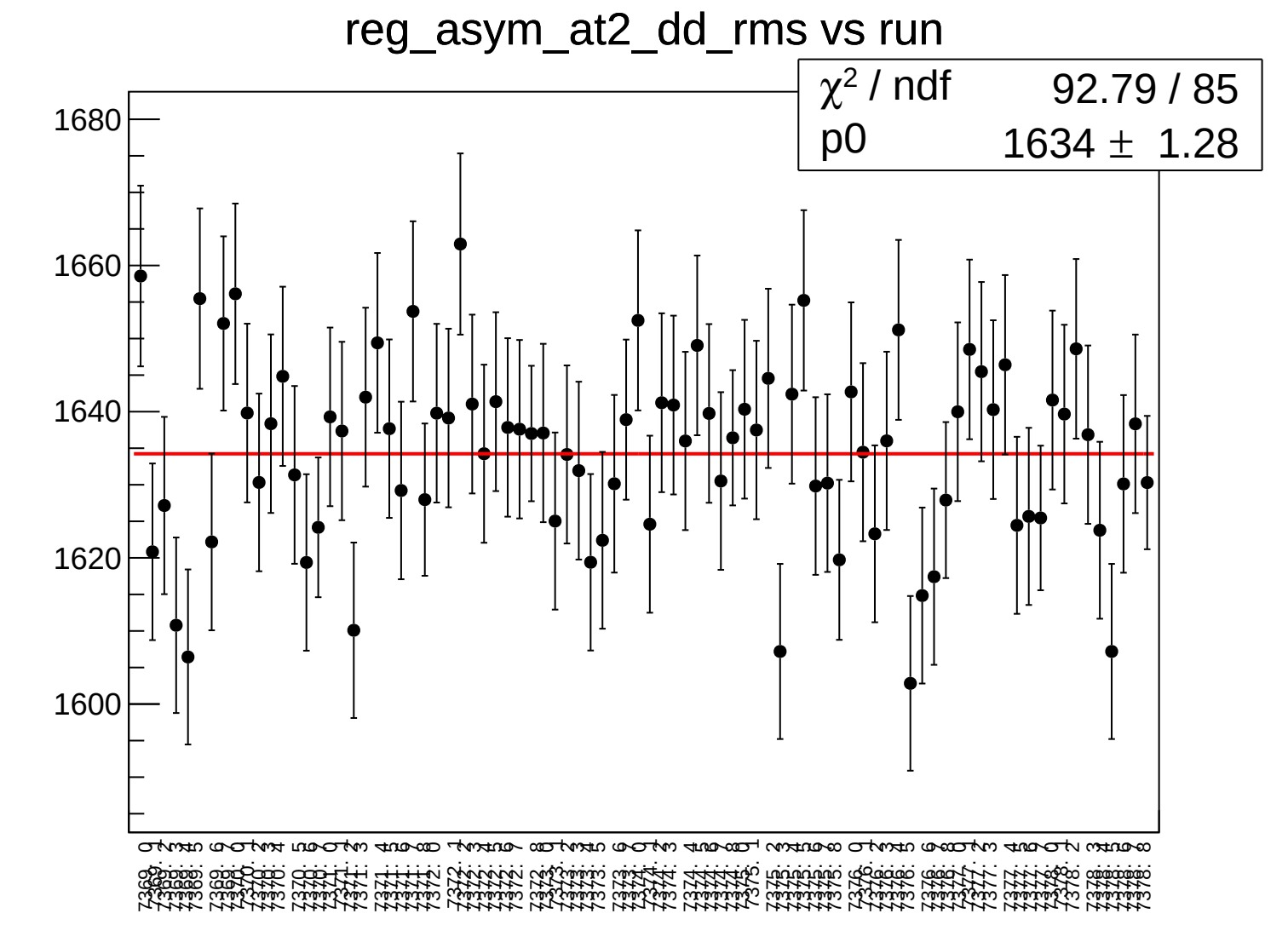

asym_at2_avg_mean vs run
×10^3
χ² / ndf 101 / 85
p0 1.195e+04 ± 1.019e+04
pull
Entries 86
Mean −64.83
Std Dev 159.3

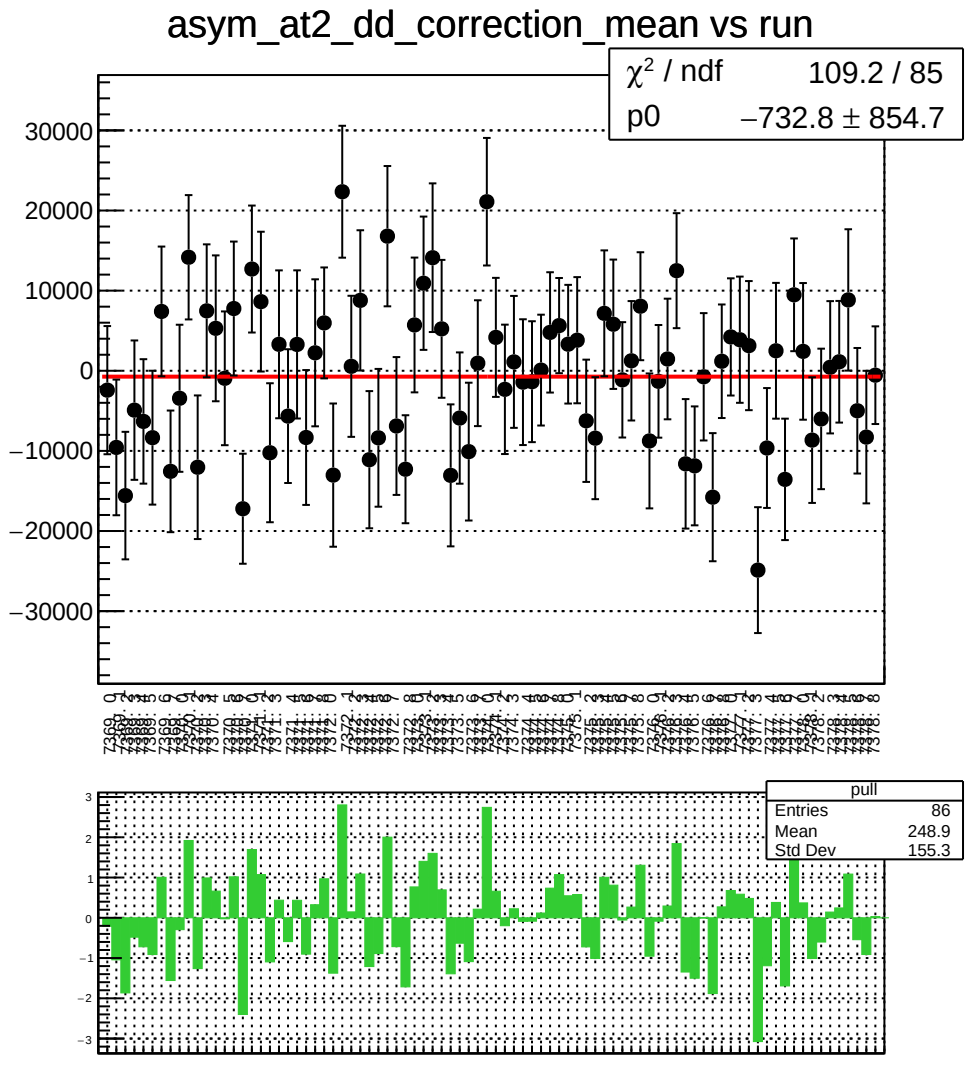

pull1D
Entries 86
Mean −0.007706
Std Dev 1.084

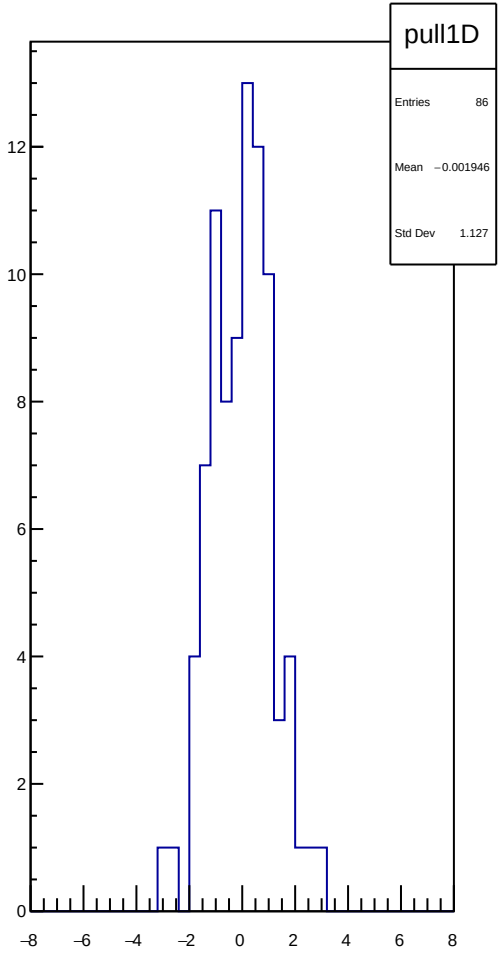

asym_at2_avg_rms vs run
χ² / ndf 2.904e+04 / 85
p0 9114 ± 7.204
12000
11000
10000
9000
8000

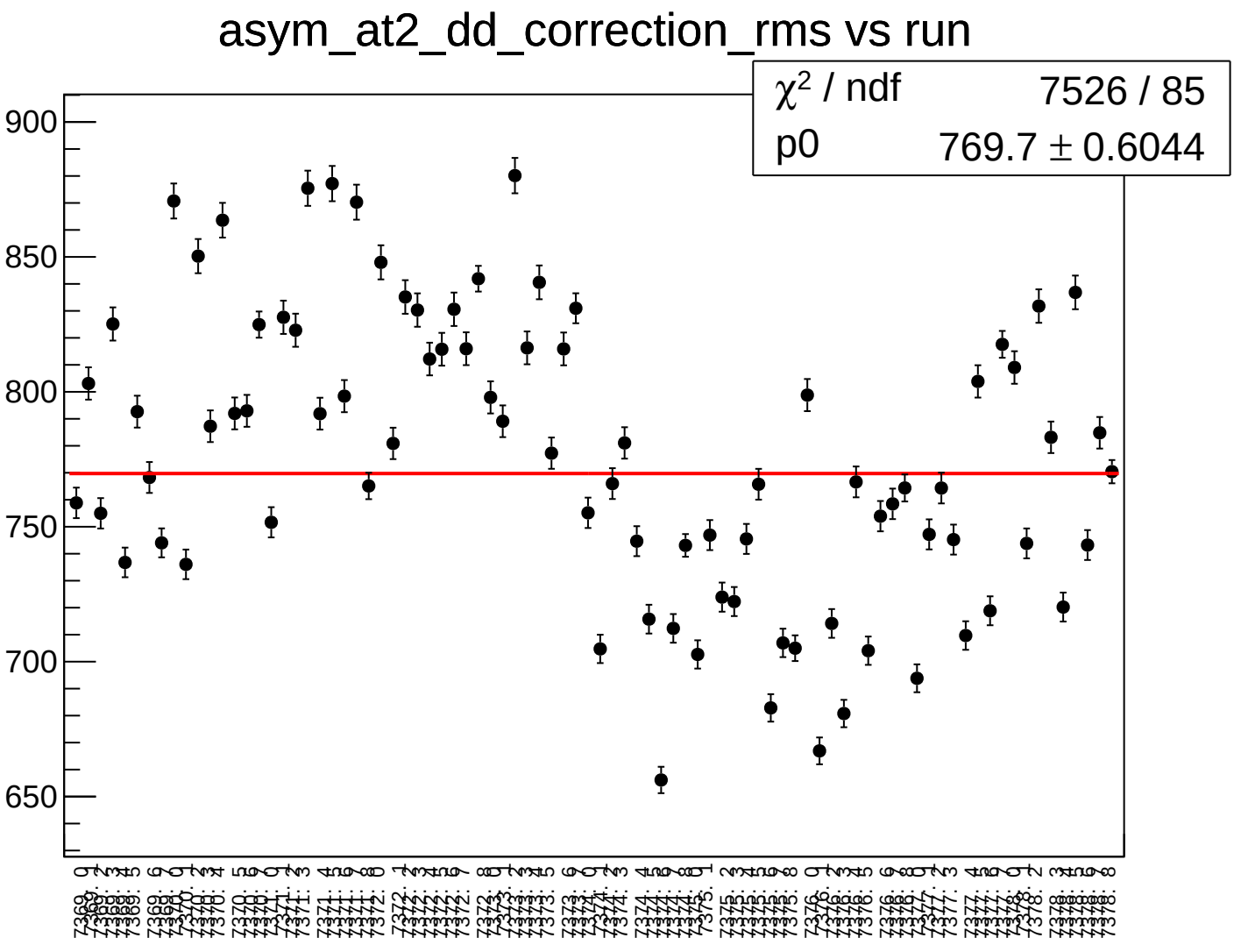

reg_asym_at2_dd_mean vs run
χ² / ndf 74.52 / 85
p0 329.6 ± 1811
pull
Entries 86
Mean −303.7
Std Dev 342

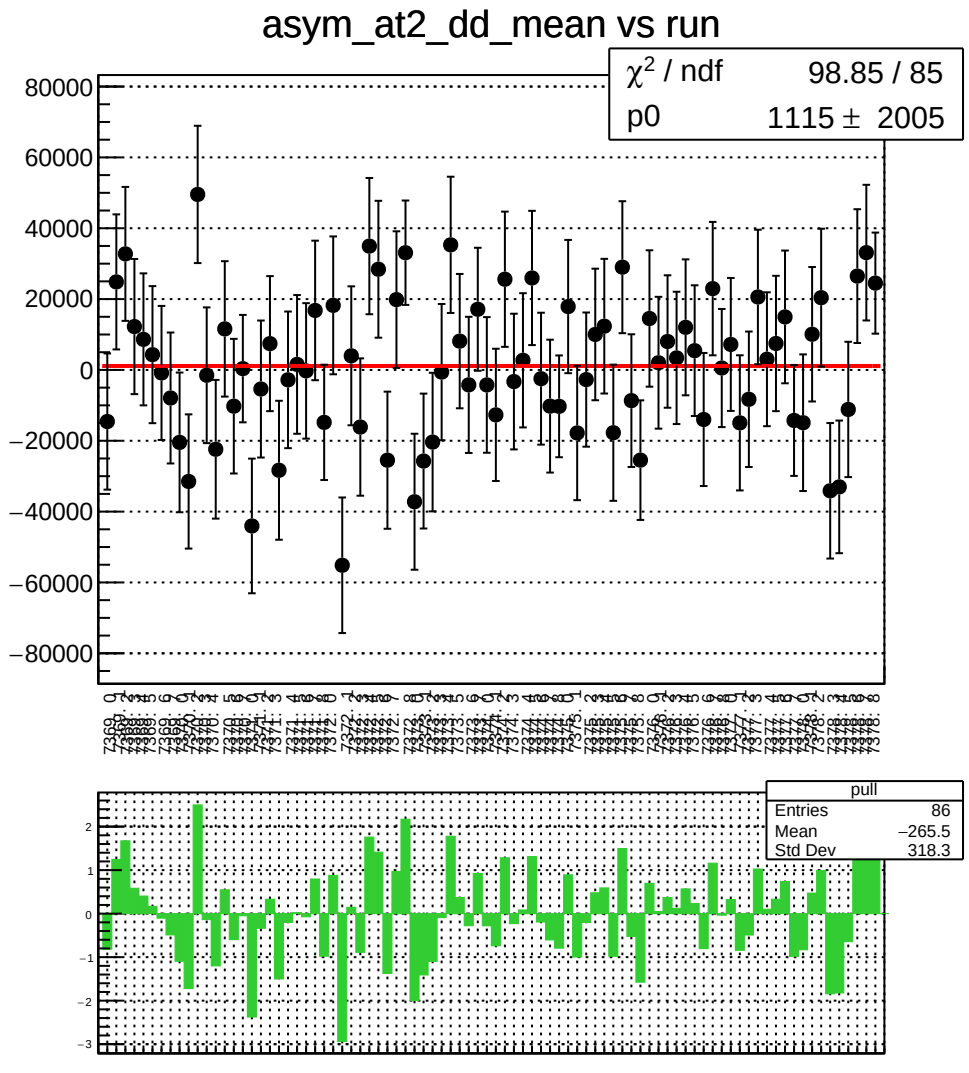

pull1D
Entries 86
Mean −0.005468
Std Dev 0.9309

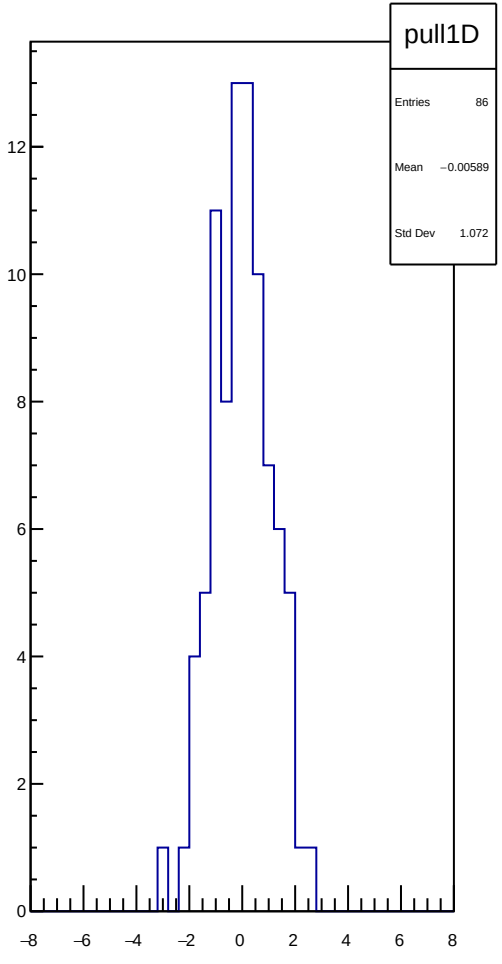

reg_asym_at2_dd_rms vs run
χ² / ndf 92.79 / 85
p0 1634 ± 1.28
1680
1660
1640
1620
1600

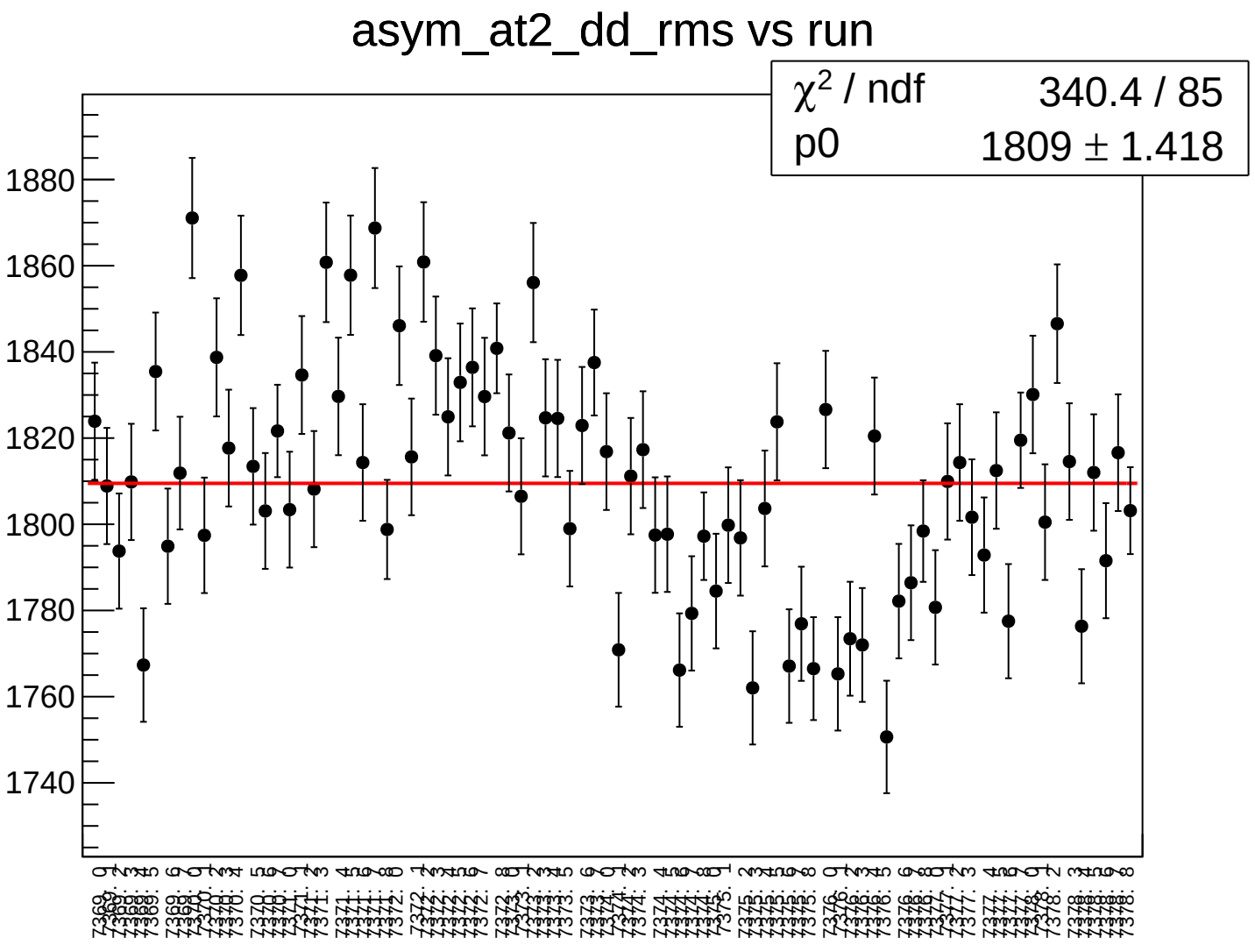

asym_at2_dd_correction_mean vs run
χ² / ndf 109.2 / 85
p0 −732.8 ± 854.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 248.9
Std Dev 155.3
3
2
1
0
−1
−2
−3

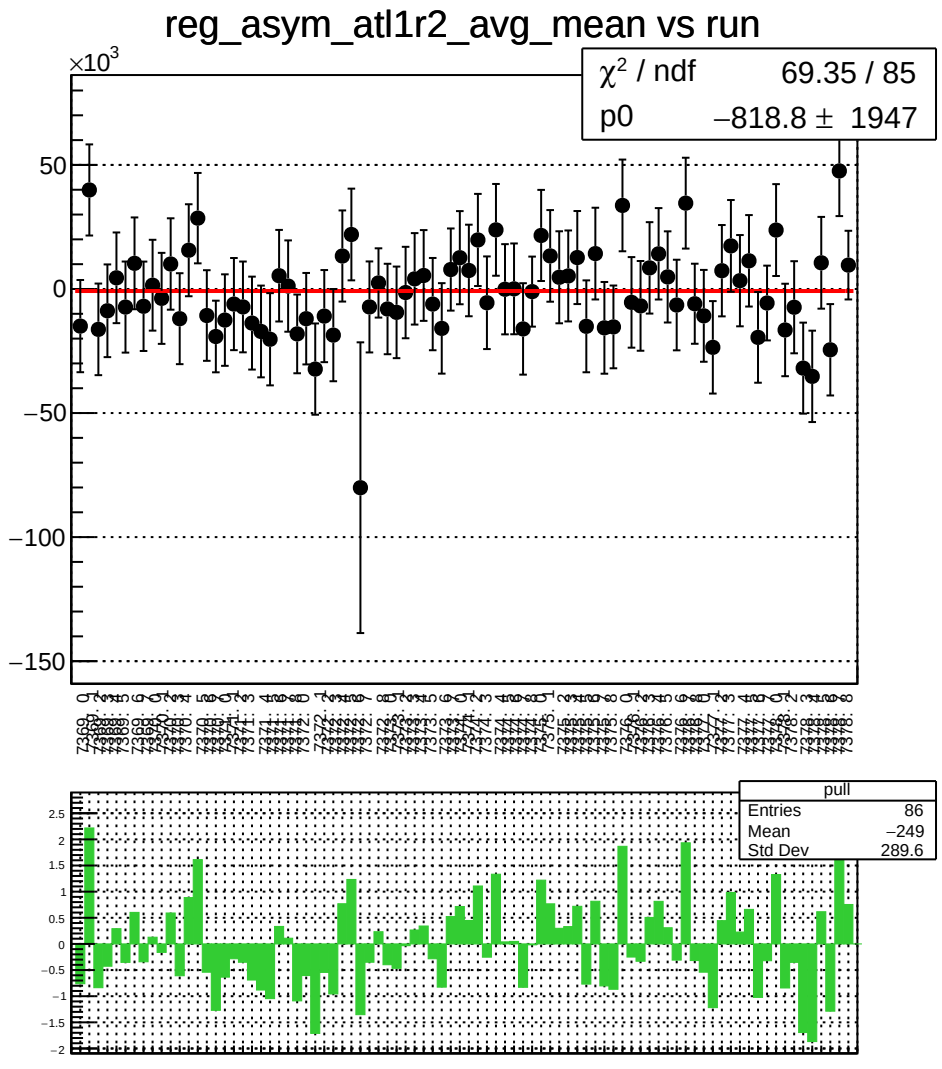

pull1D
Entries 86
Mean −0.001946
Std Dev 1.127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

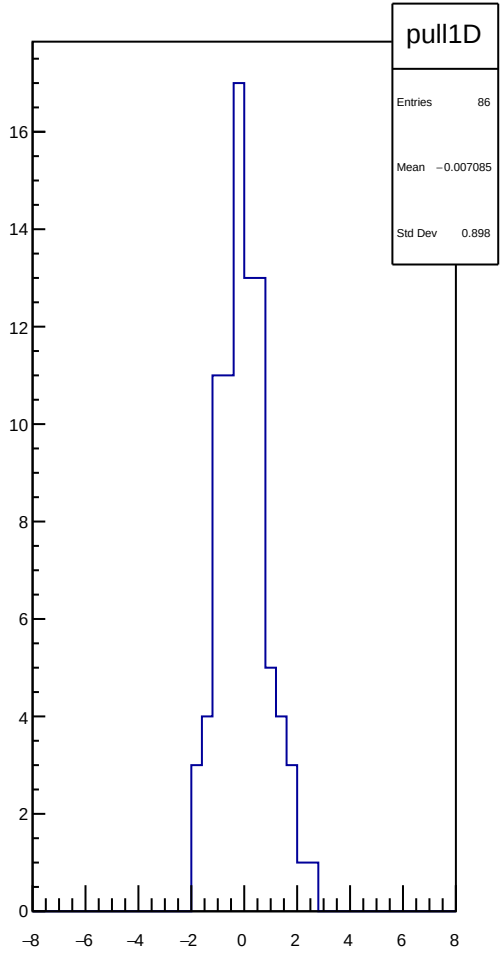

asym_at2_dd_correction_rms vs run
χ² / ndf 7526 / 85
p0 769.7 ± 0.6044
900
850
800
750
700
650

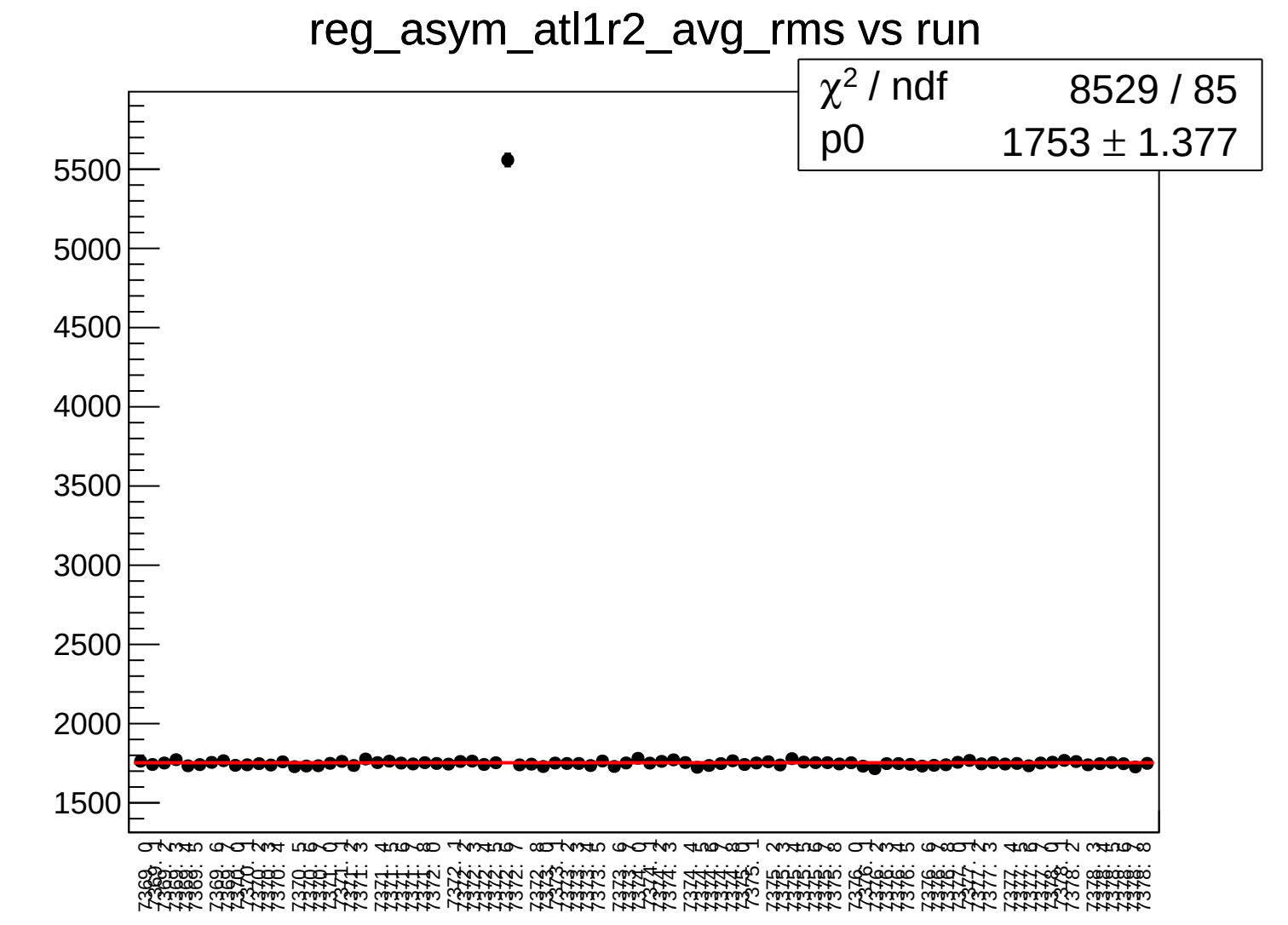

asym_at2_dd_mean vs run
χ² / ndf 98.85 / 85
p0 1115 ± 2005
pull
Entries 86
Mean −265.5
Std Dev 318.3

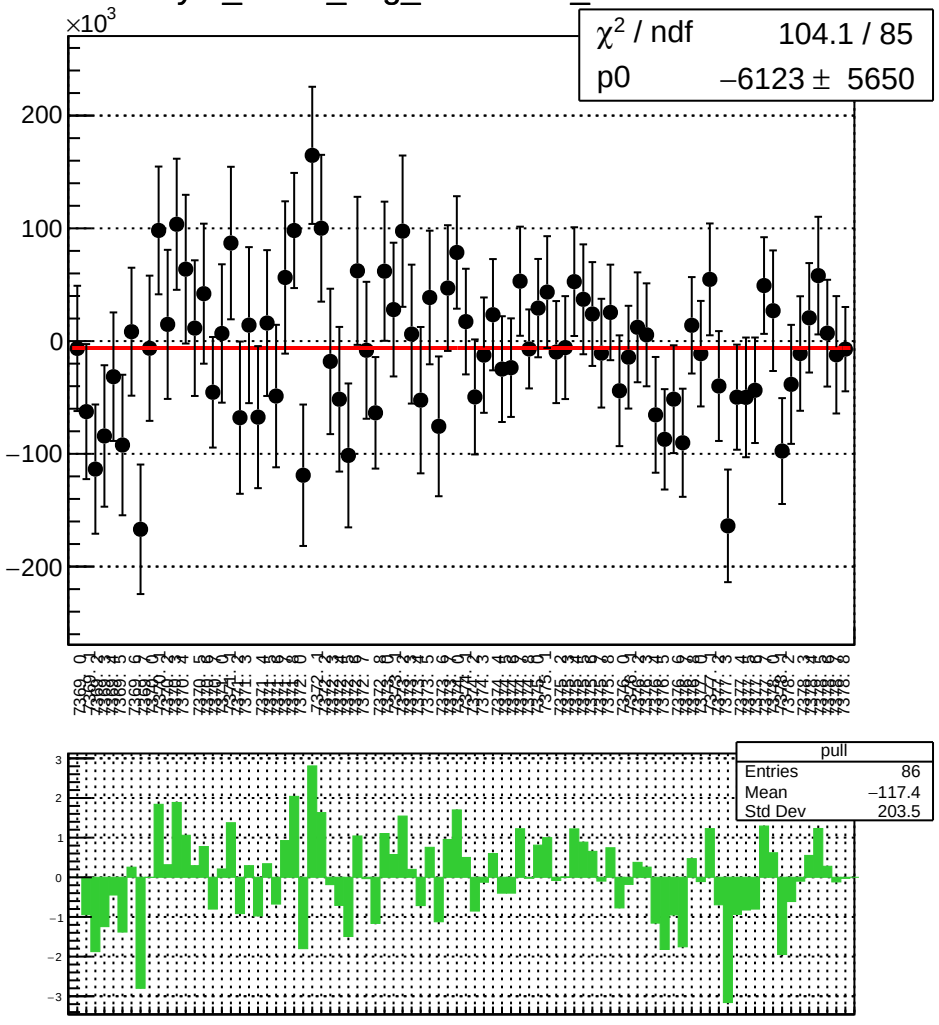

pull1D
Entries 86
Mean −0.00589
Std Dev 1.072

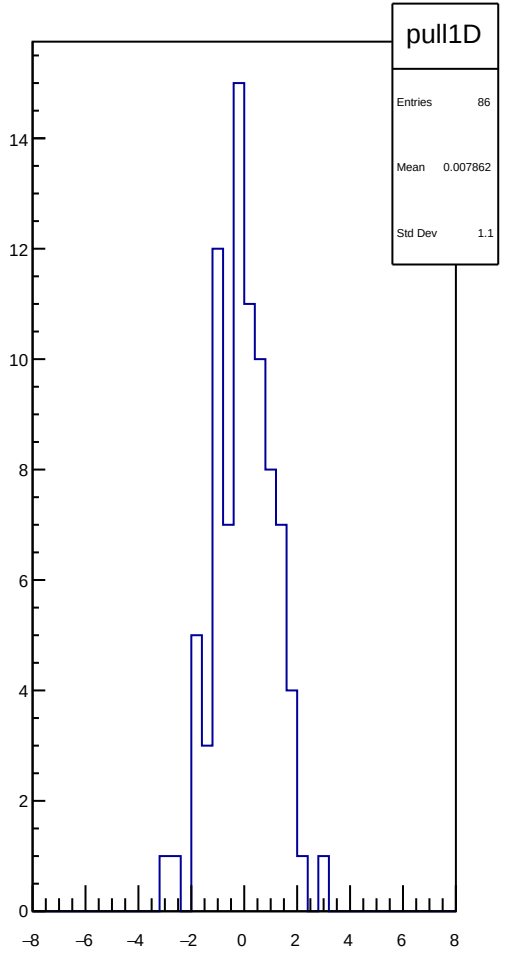

asym_at2_dd_rms vs run
χ² / ndf 340.4 / 85
p0 1809 ± 1.418
1880
1860
1840
1820
1800
1780
1760
1740

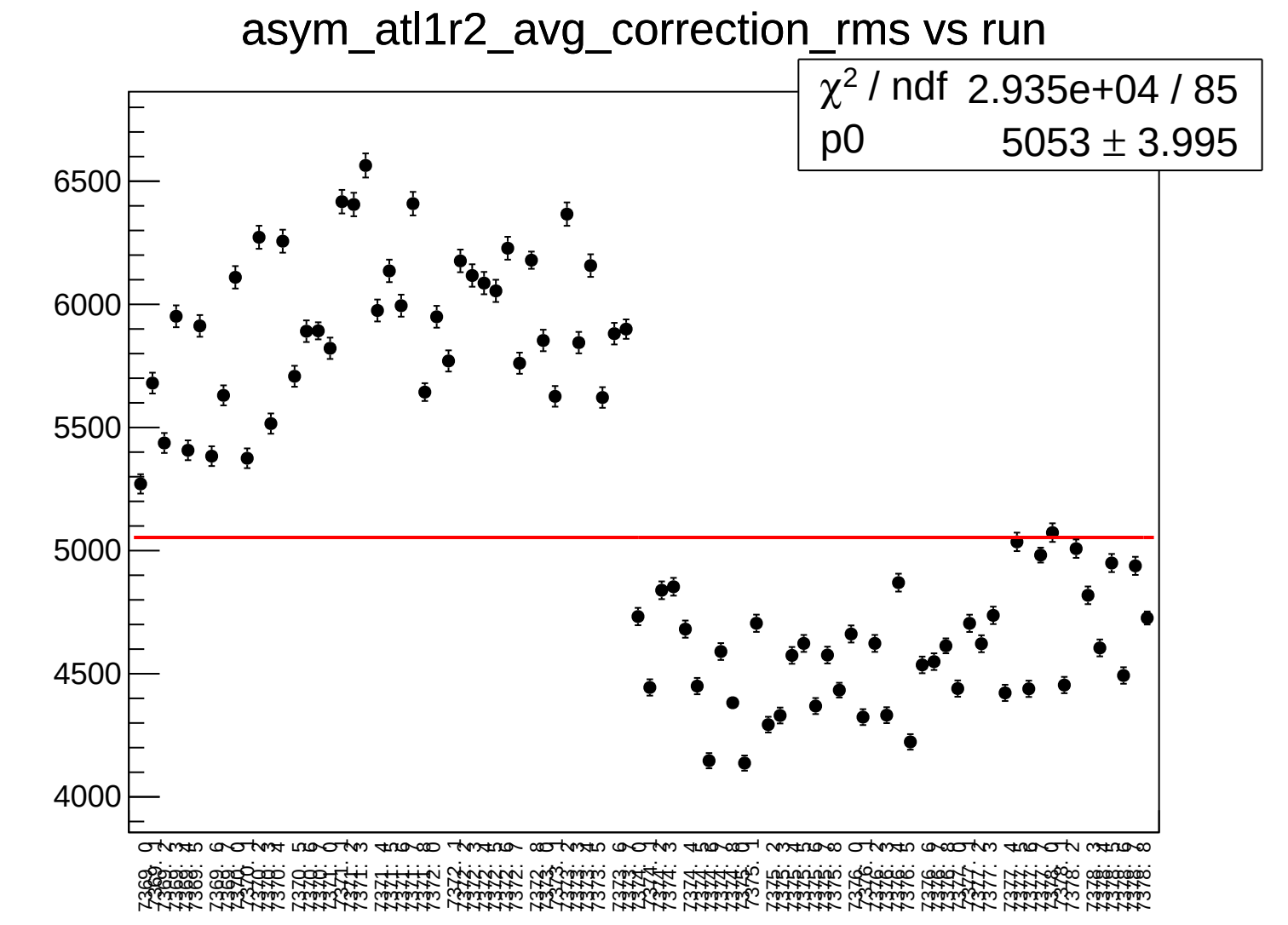

reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 69.35 / 85
p0 −818.8 ± 1947
50
0
−50
−100
−150
pull
Entries 86
Mean −249
Std Dev 289.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

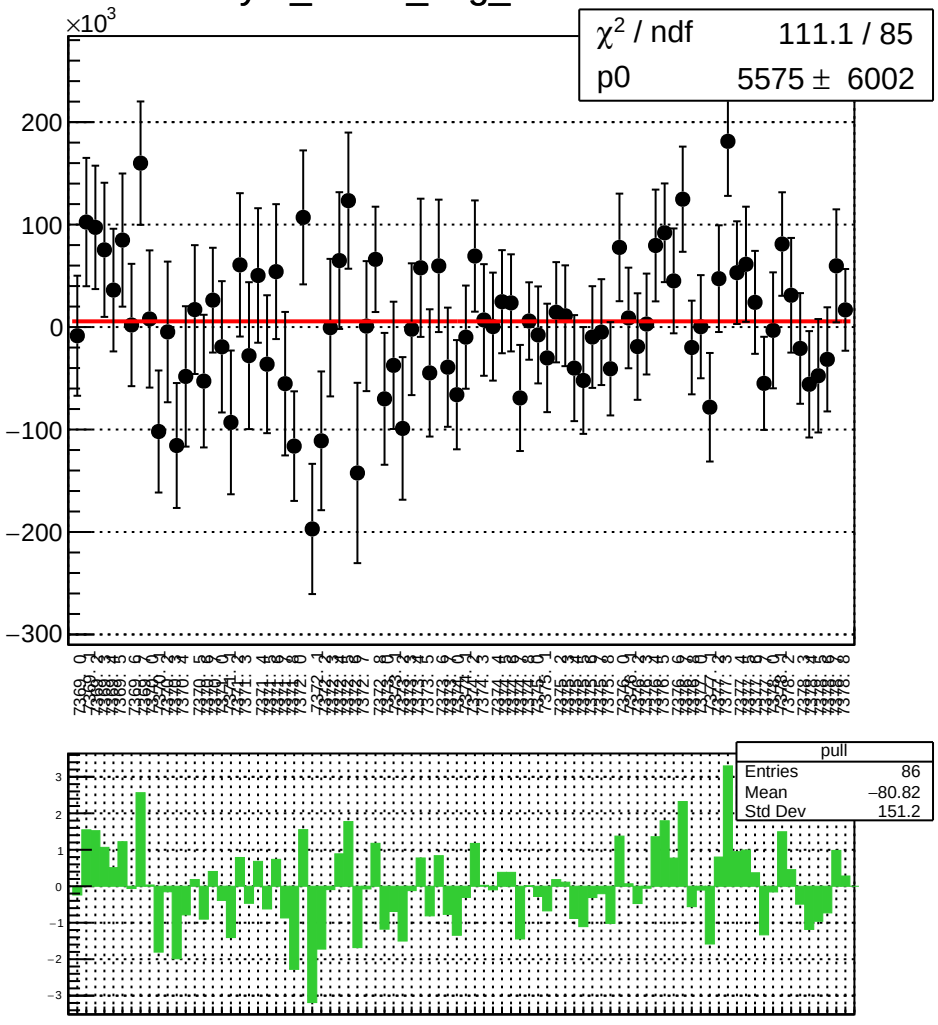

pull1D
Entries 86
Mean −0.007085
Std Dev 0.898
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

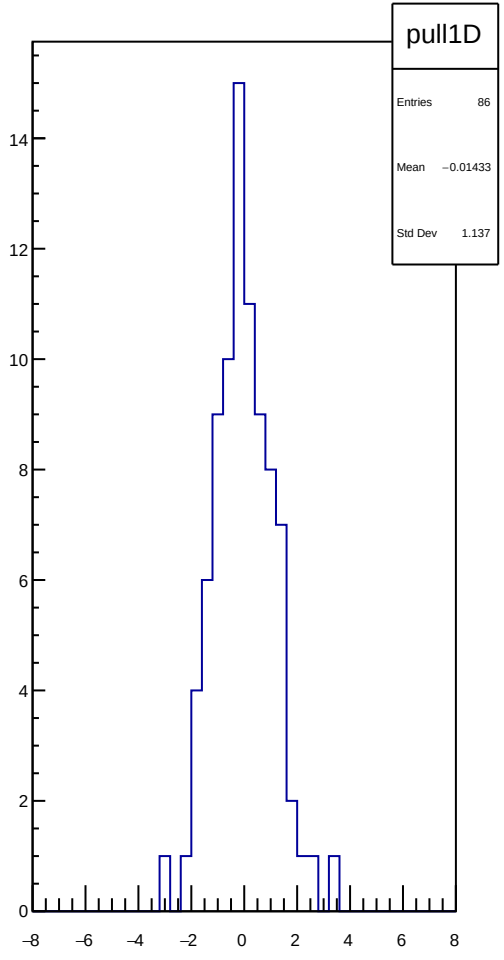

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 8529 / 85
p0 1753 ± 1.377
5500
5000
4500
4000
3500
3000
2500
2000
1500

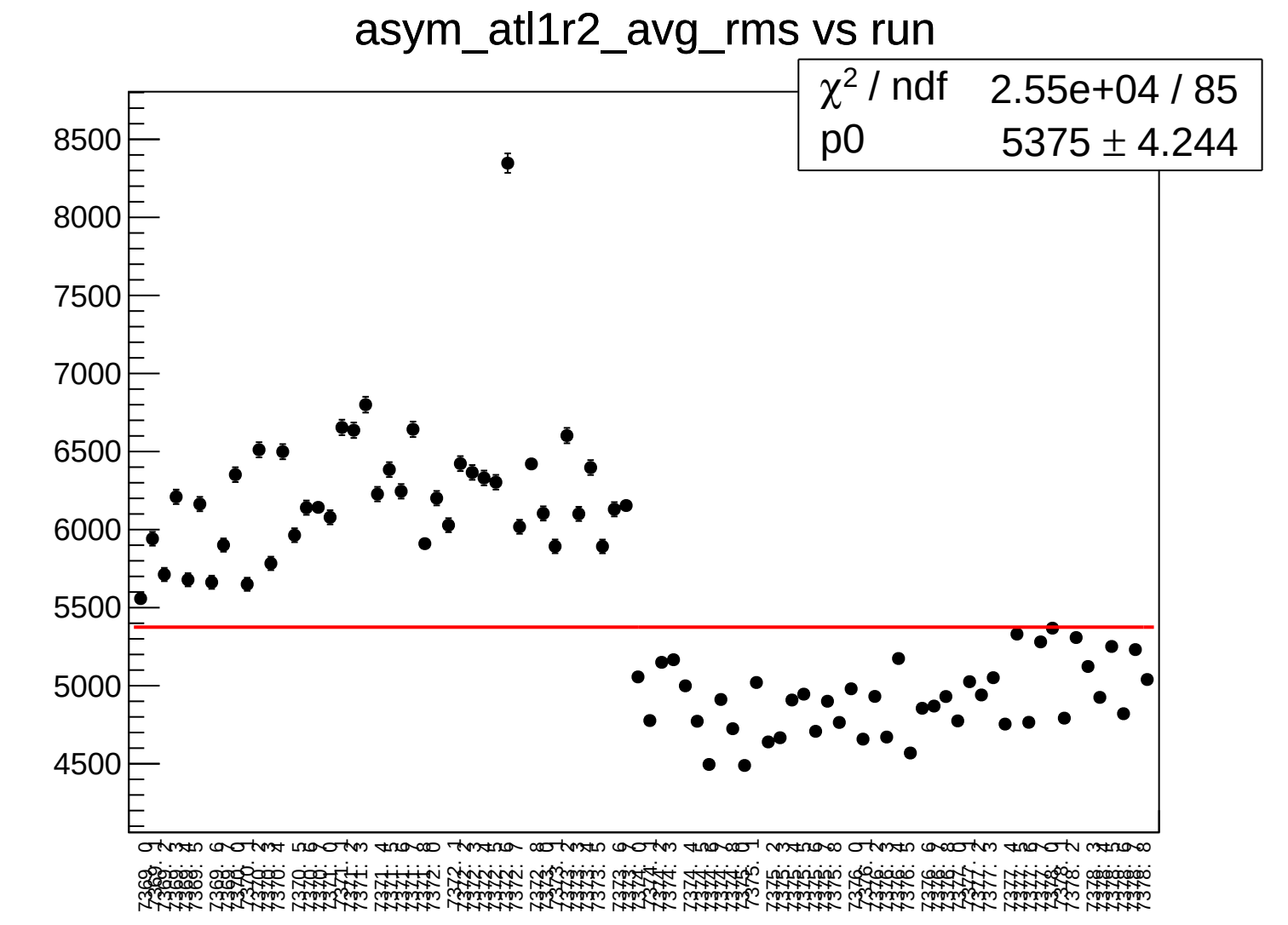

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 104.1 / 85
p0 −6123 ± 5650
200
100
0
−100
−200
pull
Entries 86
Mean −117.4
Std Dev 203.5
3
2
1
0
−1
−2
−3

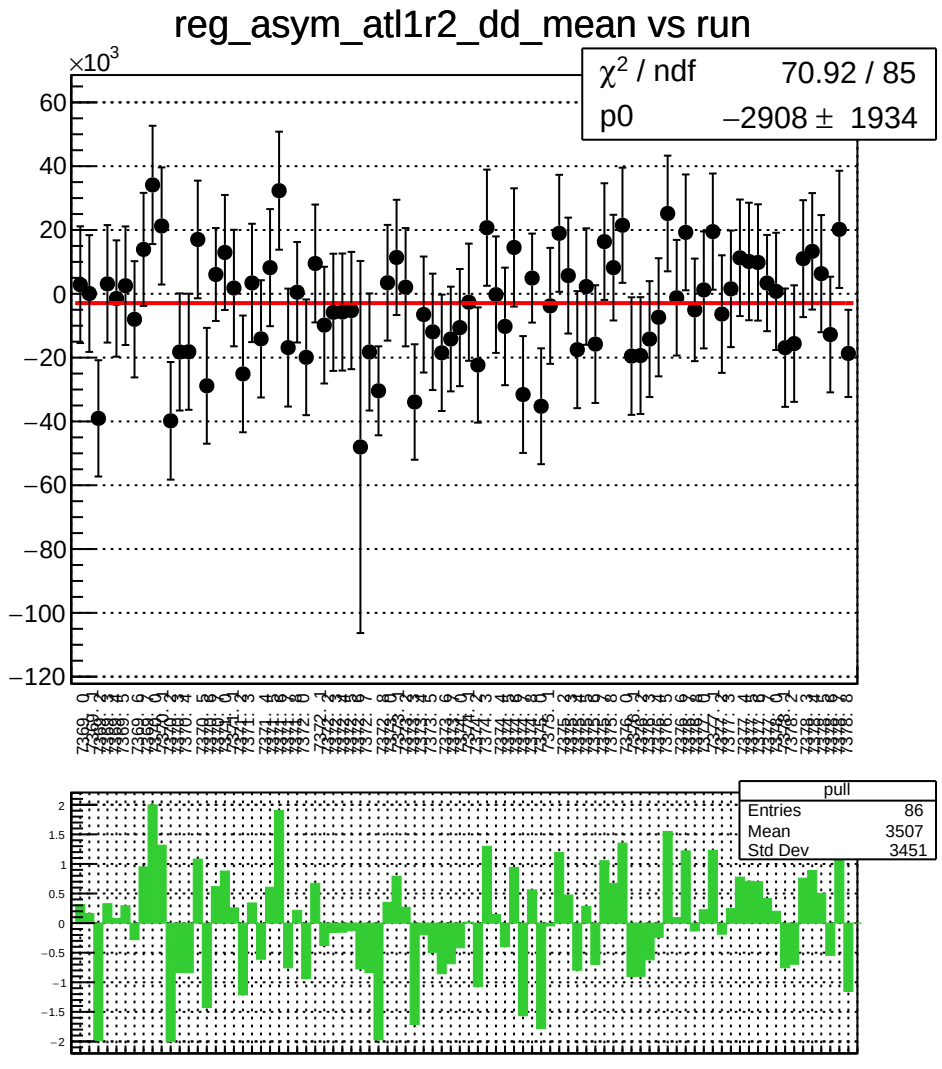

pull1D
Entries 86
Mean 0.007862
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

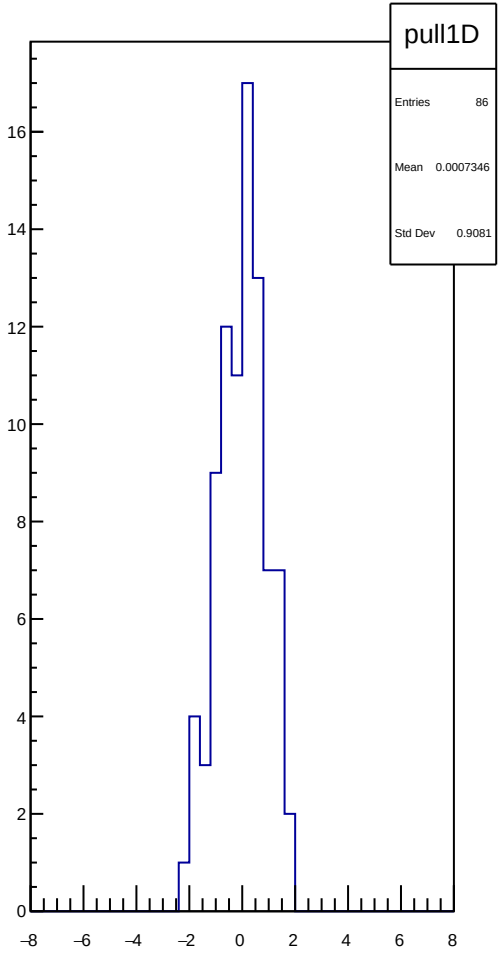

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 2.935e+04 / 85
p0 5053 ± 3.995
6500
6000
5500
5000
4500
4000

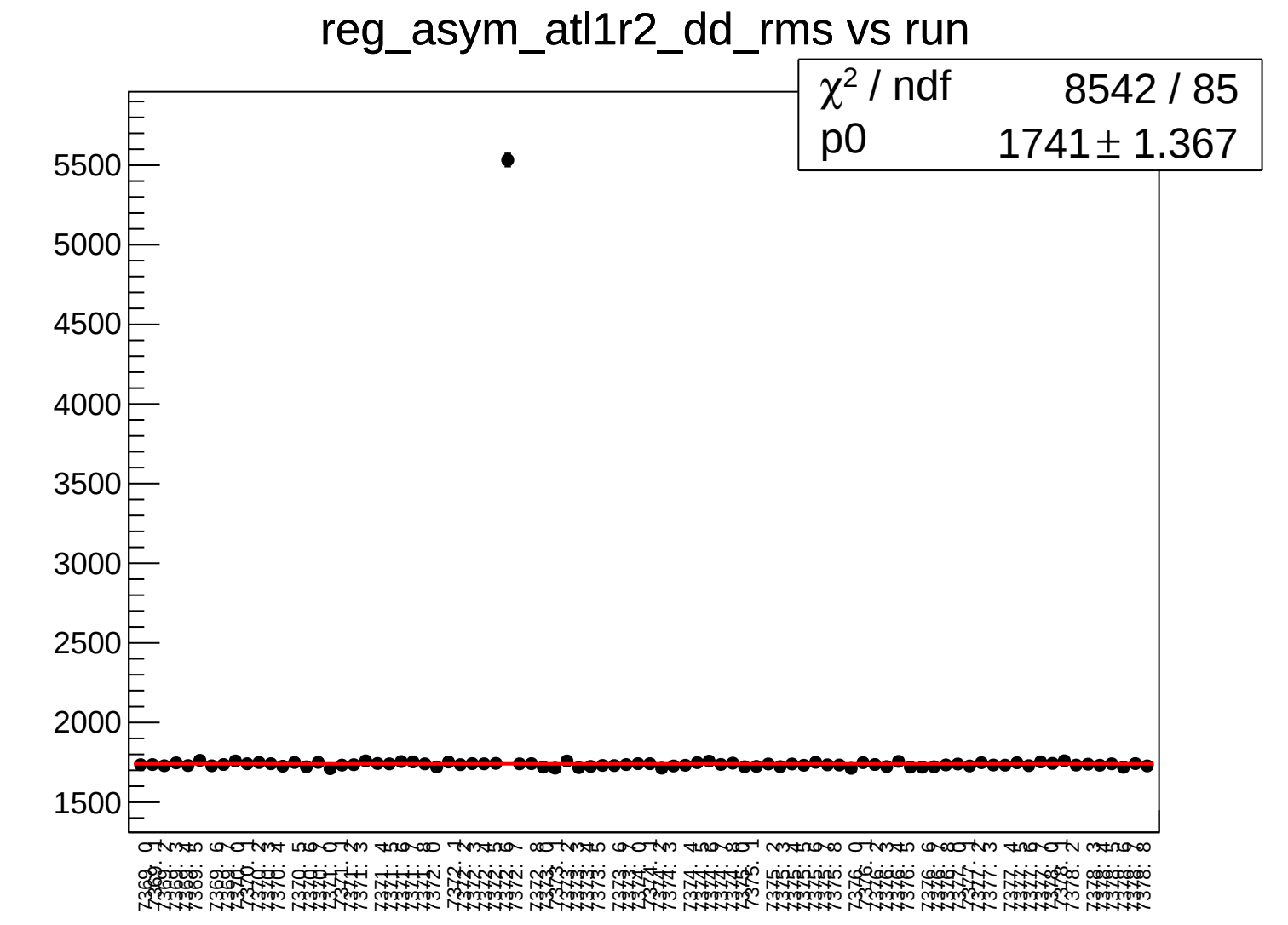

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 111.1 / 85
p0 5575 ± 6002
200
100
0
−100
−200
−300
pull
Entries 86
Mean −80.82
Std Dev 151.2
3
2
1
0
−1
−2
−3

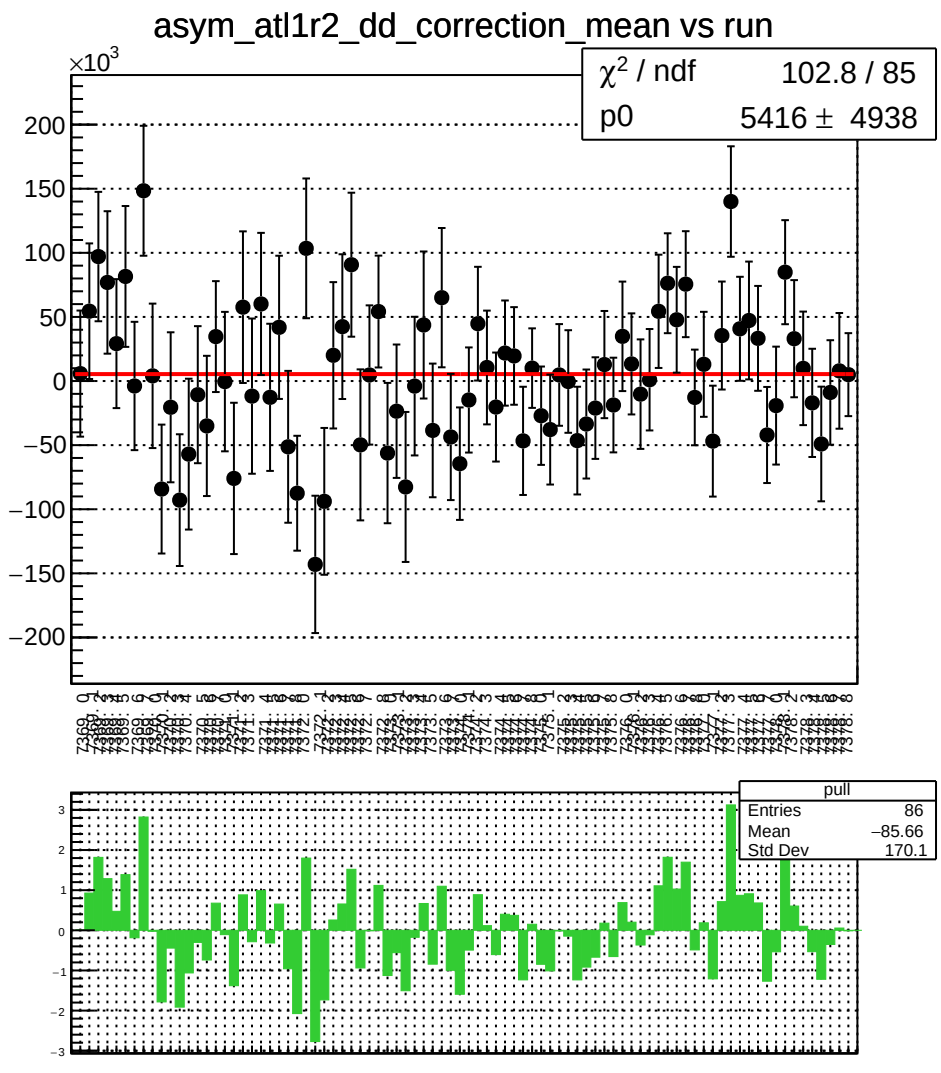

pull1D
Entries 86
Mean −0.01433
Std Dev 1.137
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

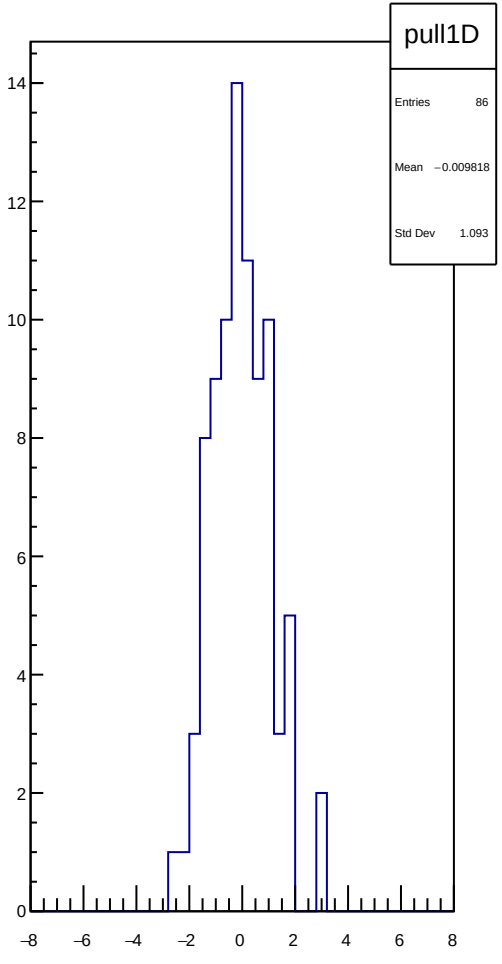

asym_atl1r2_avg_rms vs run
χ^2 / ndf 2.55e+04 / 85
p0 5375 ± 4.244
8500
8000
7500
7000
6500
6000
5500
5000
4500

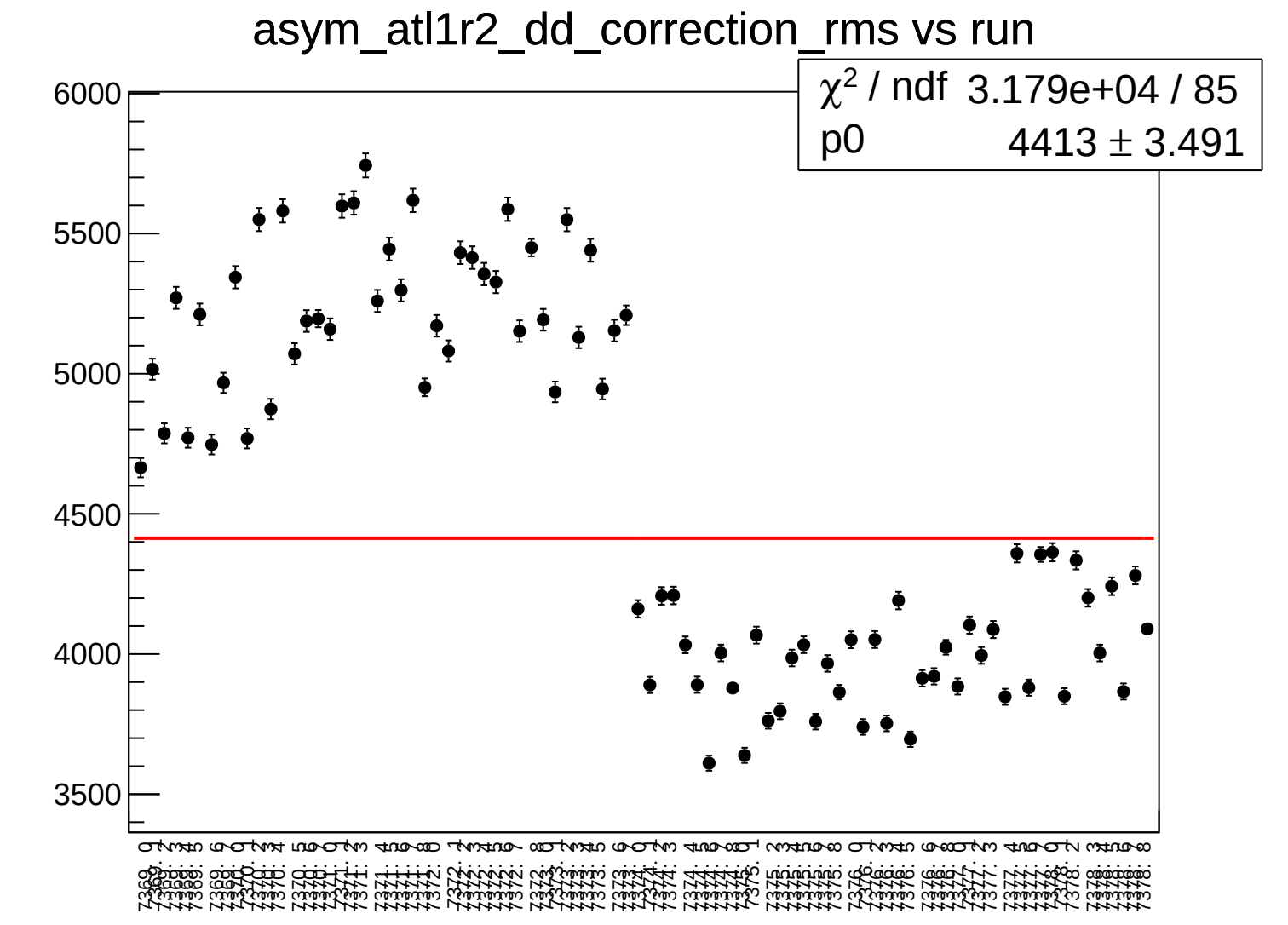

reg_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 70.92 / 85
p0 −2908 ± 1934
pull
Entries 86
Mean 3507
Std Dev 3451

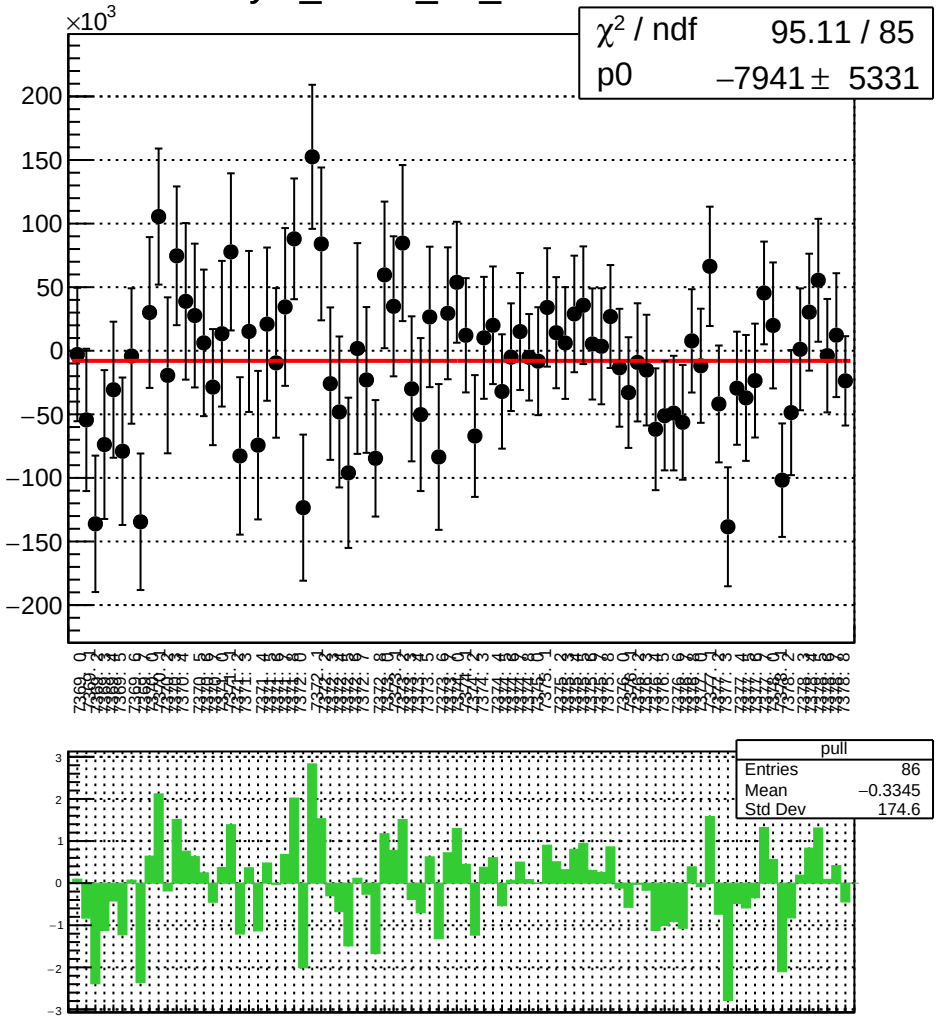

pull1D
Entries 86
Mean 0.0007346
Std Dev 0.9081

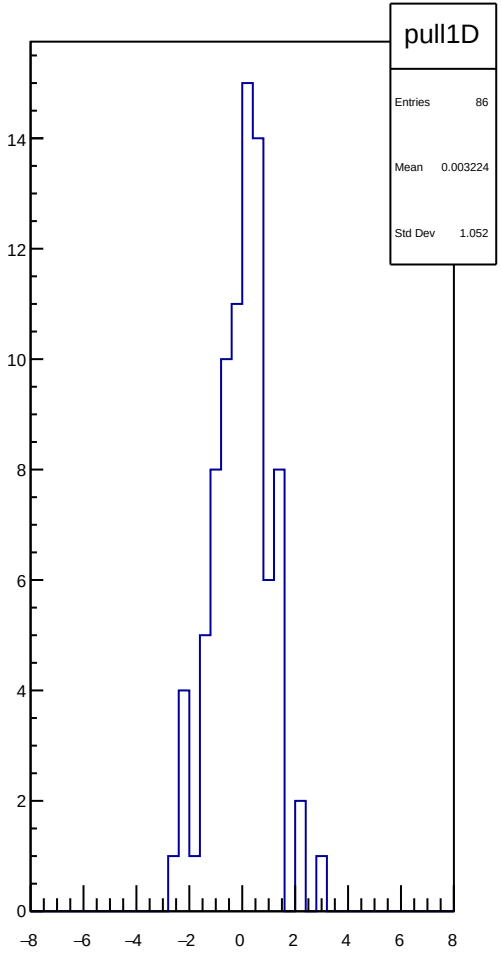

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 8542 / 85
p0 1741 ± 1.367
5500
5000
4500
4000
3500
3000
2500
2000
1500

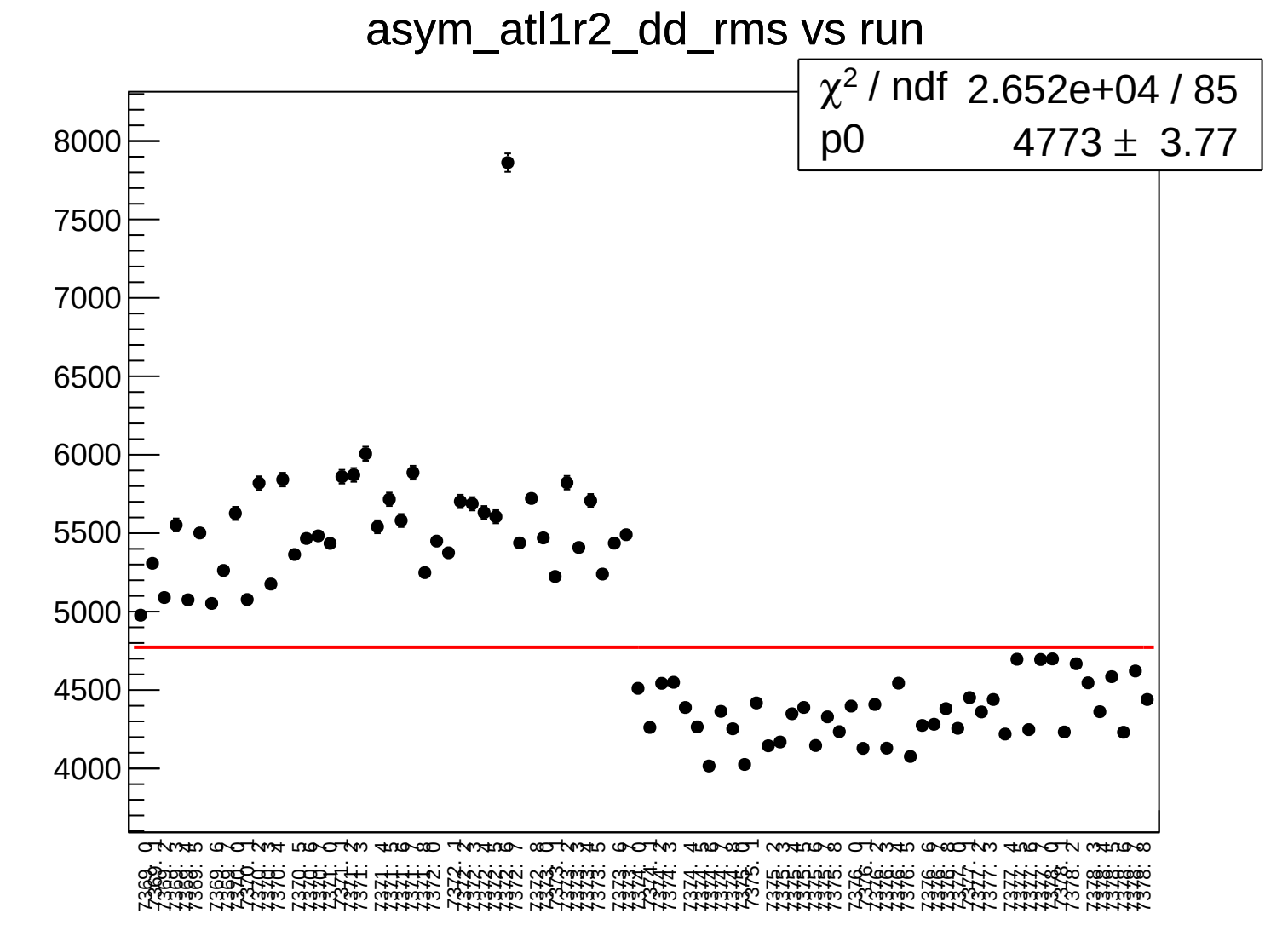

asym_atl1r2_dd_correction_mean vs run
×10^3
χ^2 / ndf 102.8 / 85
p0 5416 ± 4938
pull
Entries 86
Mean −85.66
Std Dev 170.1

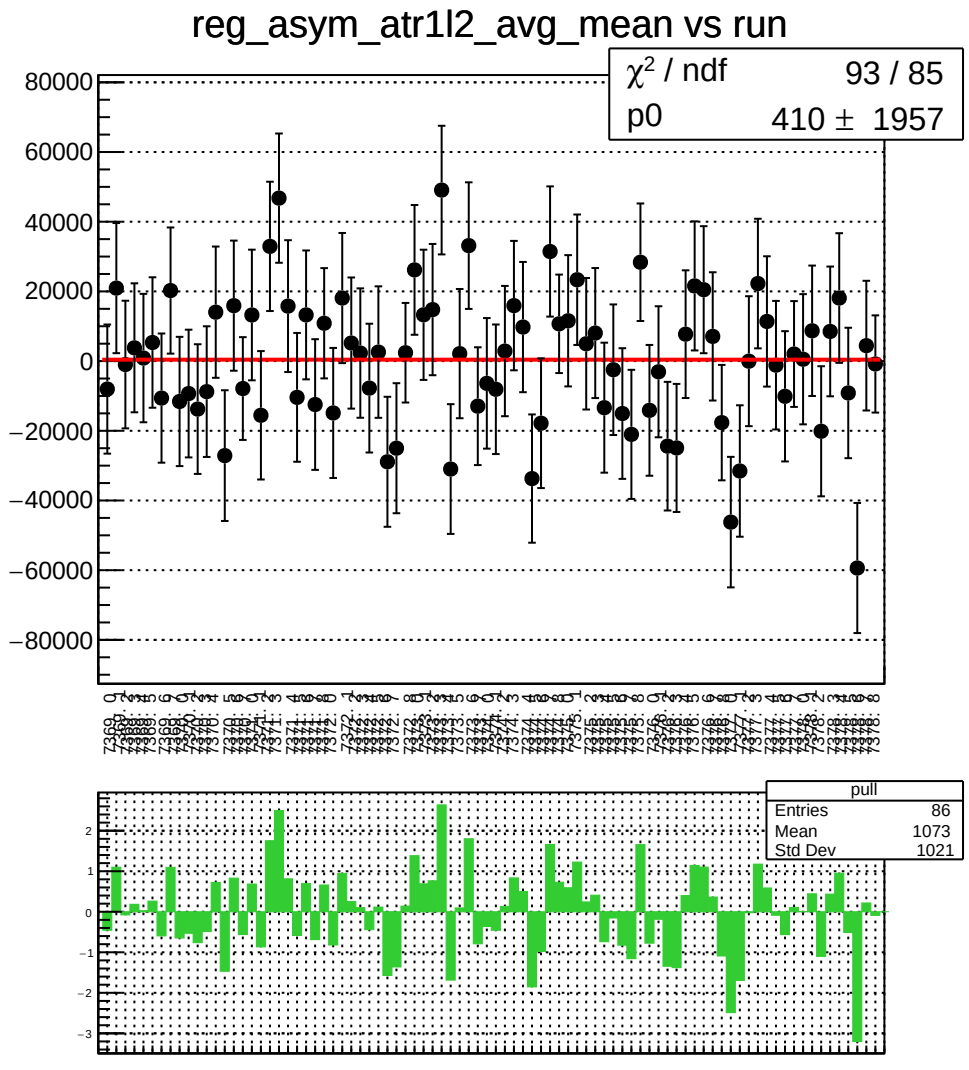

pull1D
Entries 86
Mean −0.009818
Std Dev 1.093

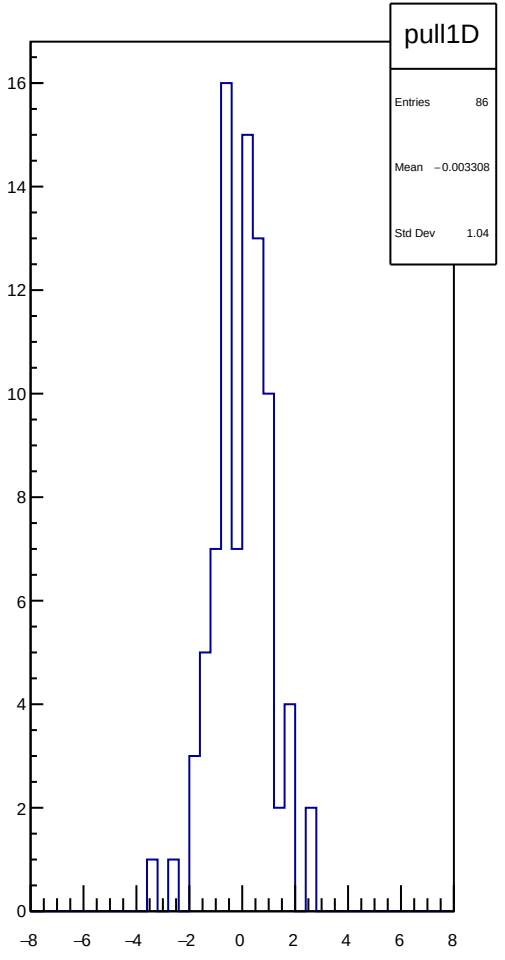

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 3.179e+04 / 85
p0 4413 ± 3.491
6000
5500
5000
4500
4000
3500

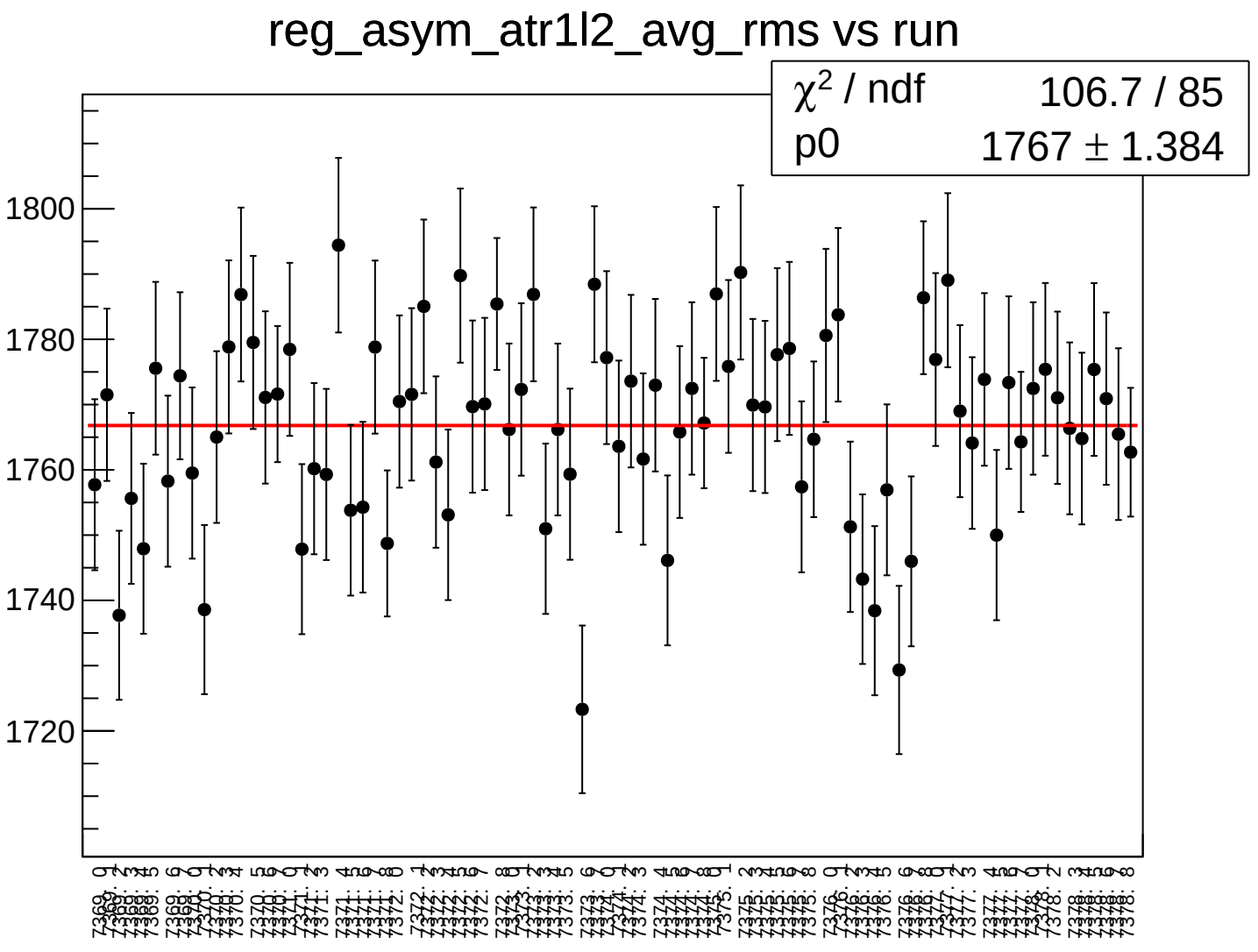

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 95.11 / 85
p0 −7941 ± 5331
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −0.3345
Std Dev 174.6
3
2
1
0
−1
−2
−3

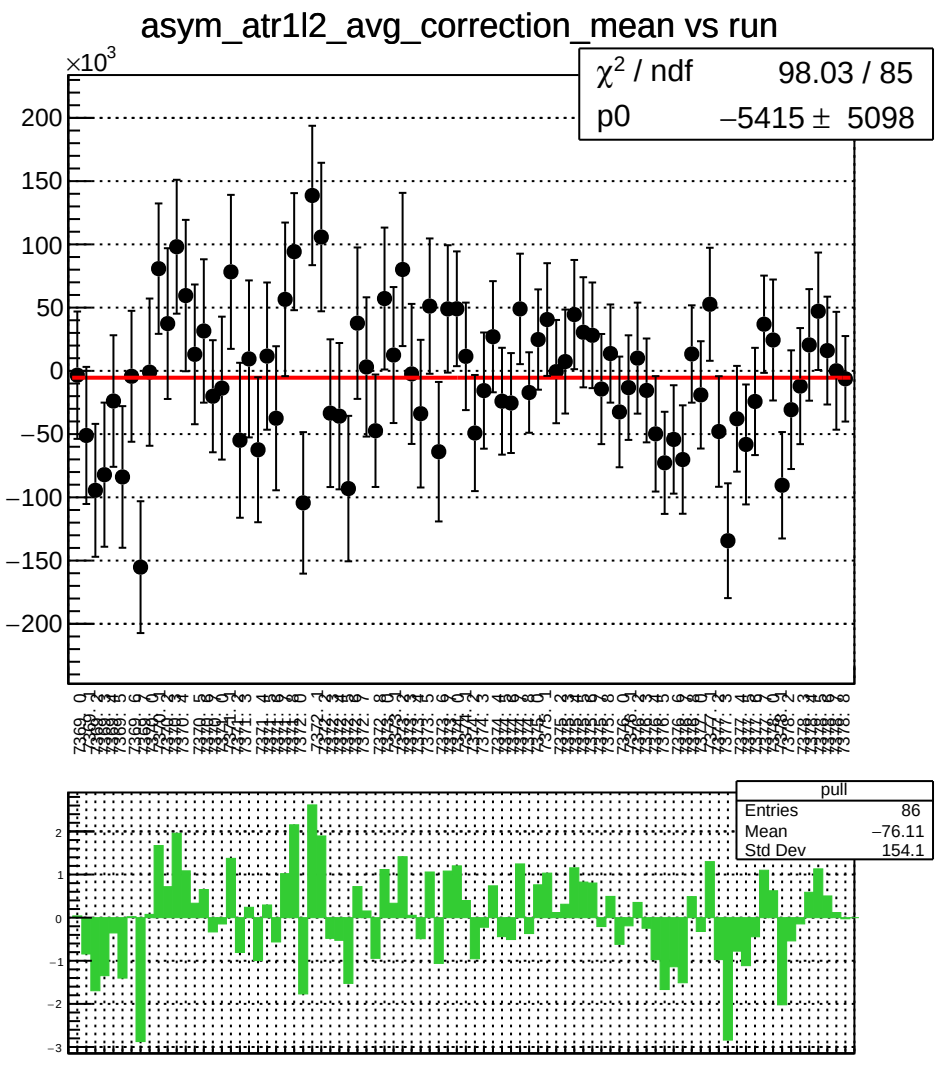

pull1D
Entries 86
Mean 0.003224
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

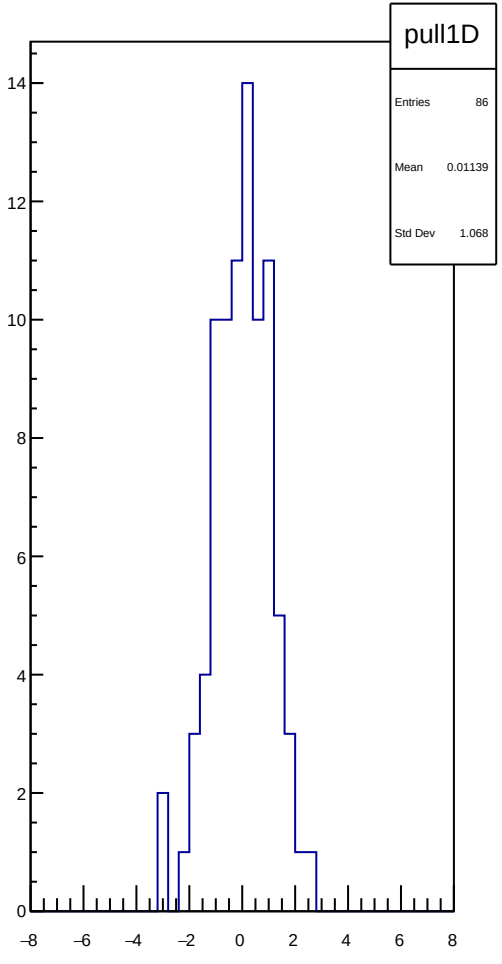

asym_atl1r2_dd_rms vs run
χ² / ndf 2.652e+04 / 85
p0 4773 ± 3.77
8000
7500
7000
6500
6000
5500
5000
4500
4000

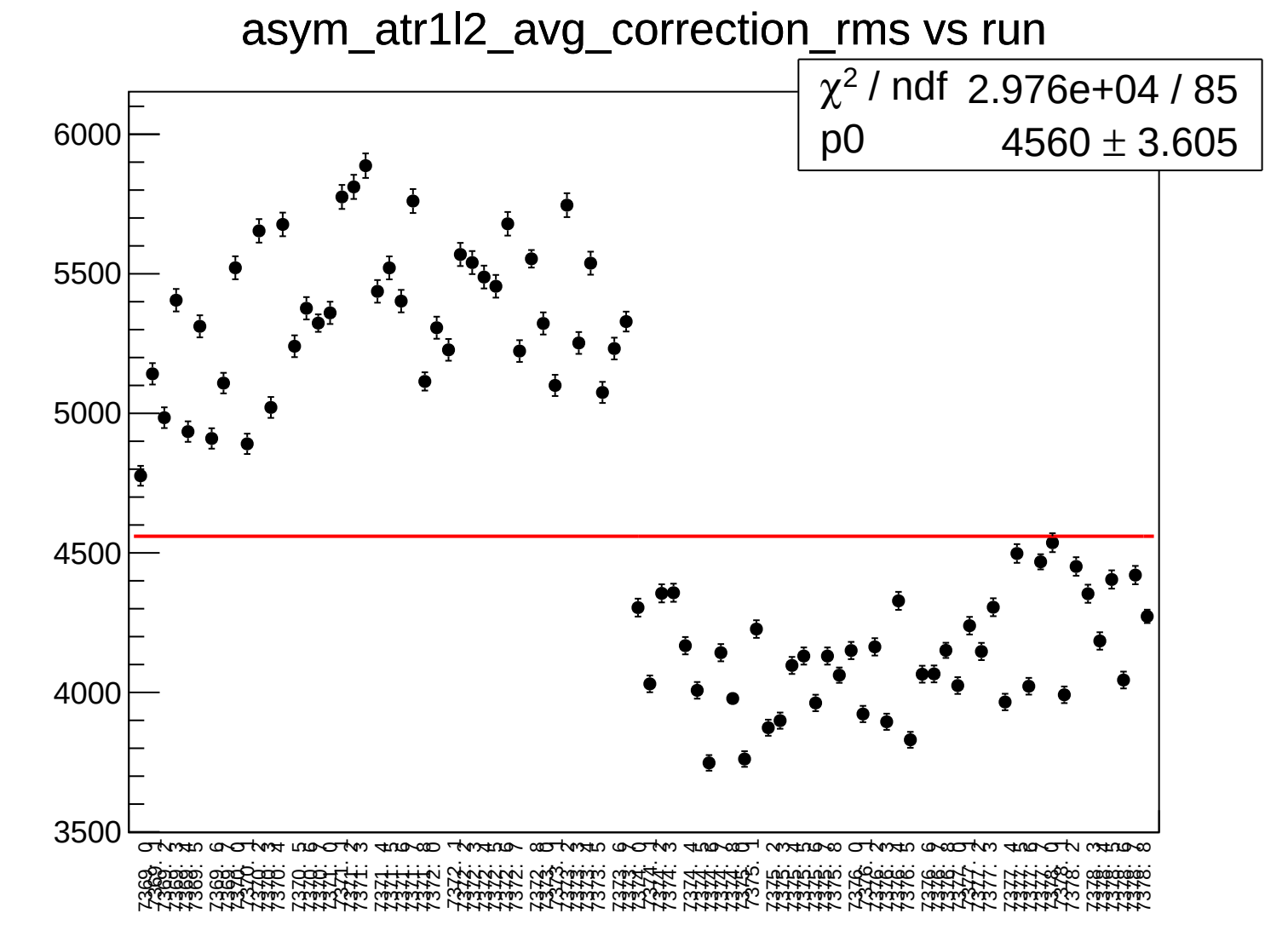

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 93 / 85
p0 410 ± 1957
pull
Entries 86
Mean 1073
Std Dev 1021

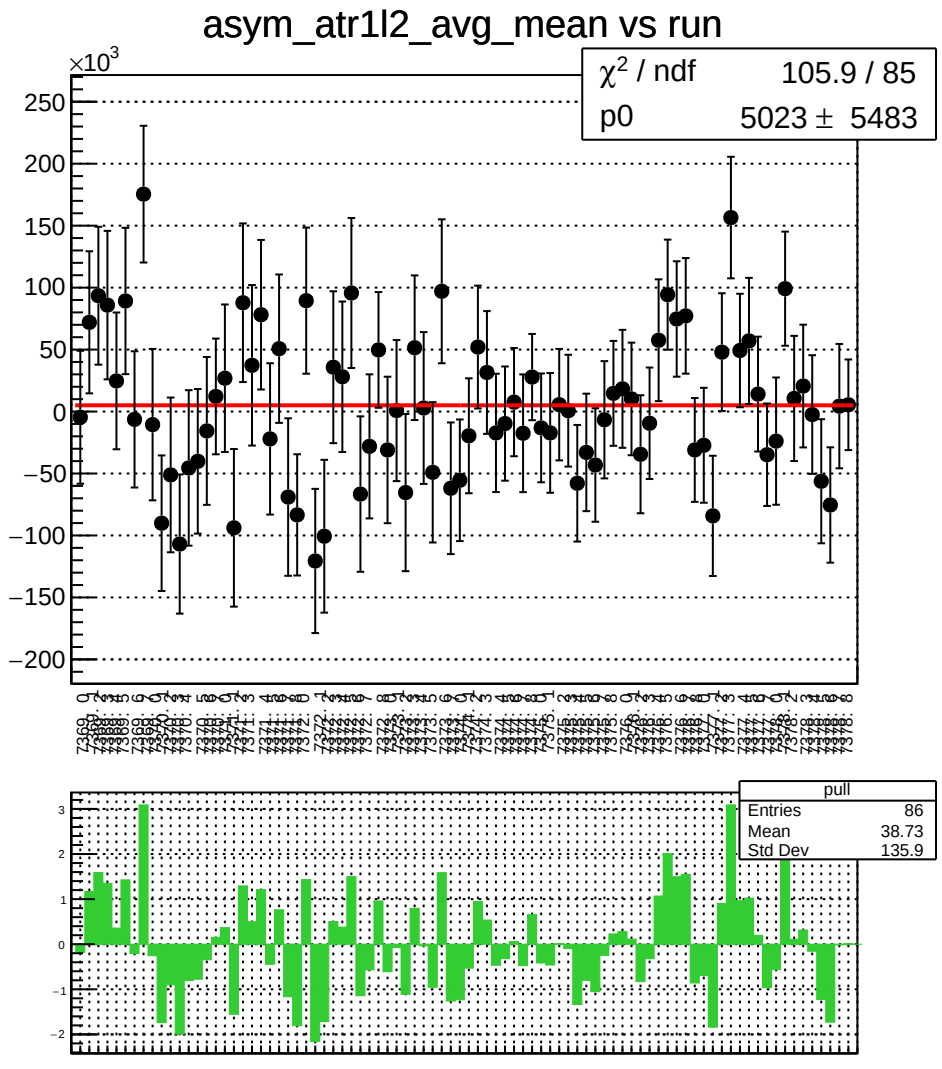

pull1D
Entries 86
Mean −0.003308
Std Dev 1.04

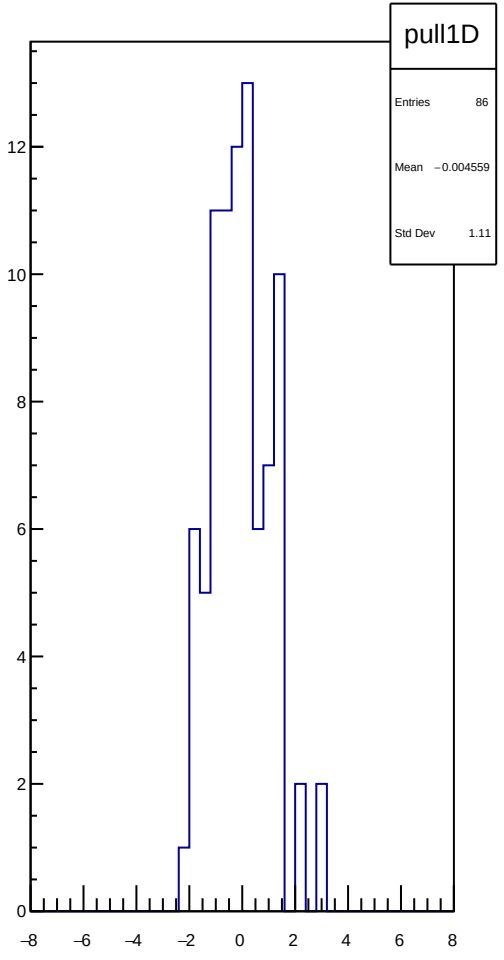

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 106.7 / 85
p0 1767 ± 1.384
1800
1780
1760
1740
1720

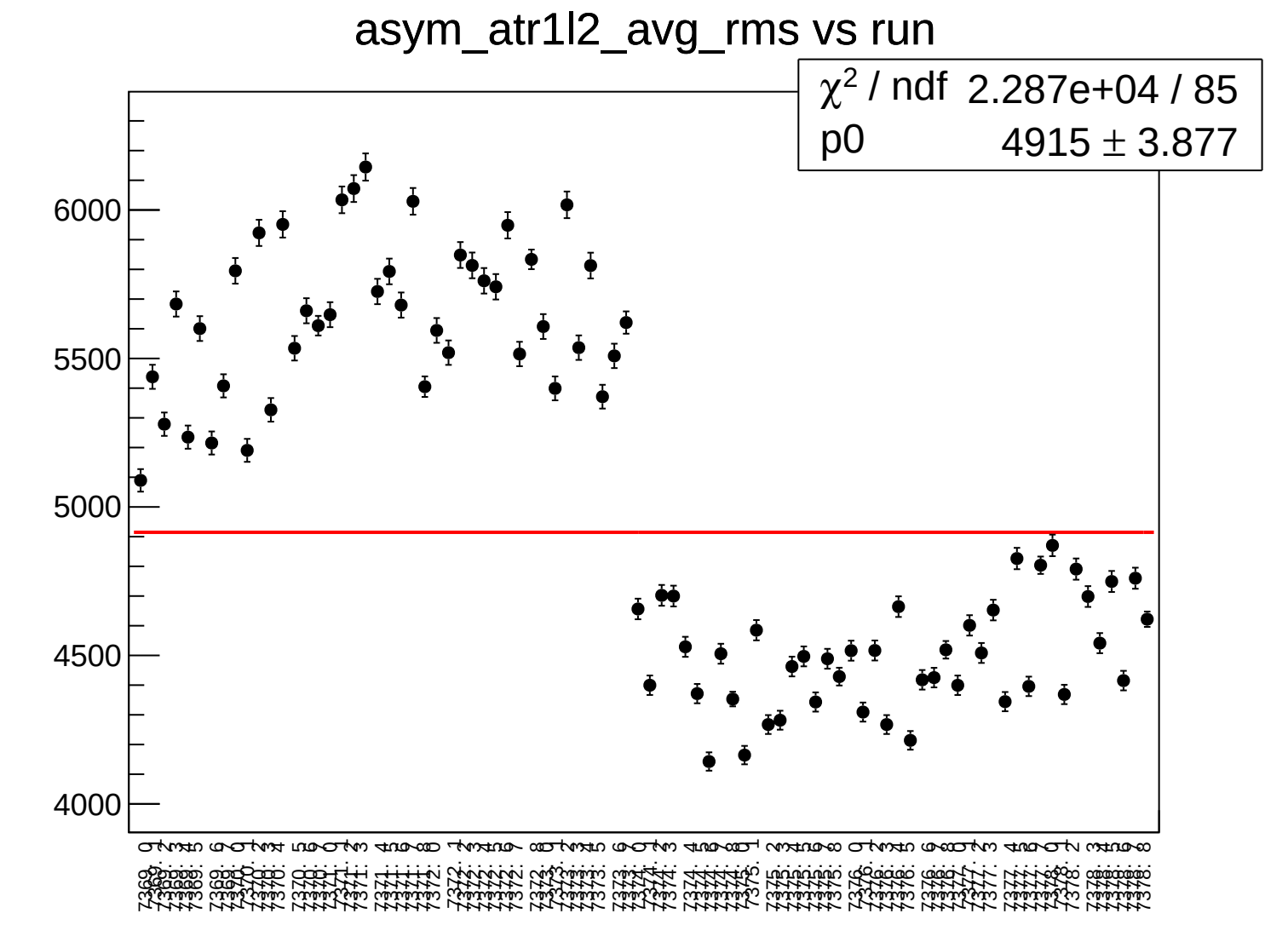

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 98.03 / 85
p0 −5415 ± 5098
pull
Entries 86
Mean −76.11
Std Dev 154.1

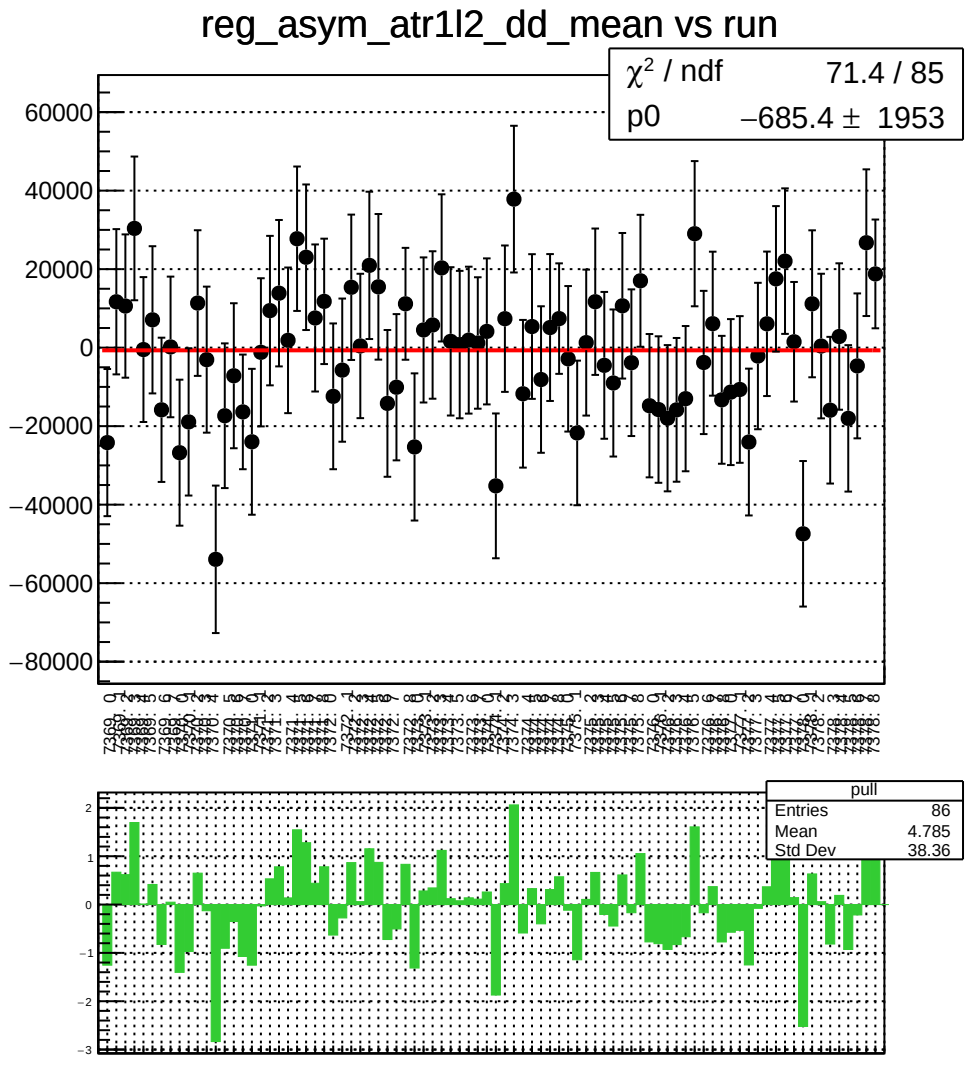

pull1D
Entries 86
Mean 0.01139
Std Dev 1.068

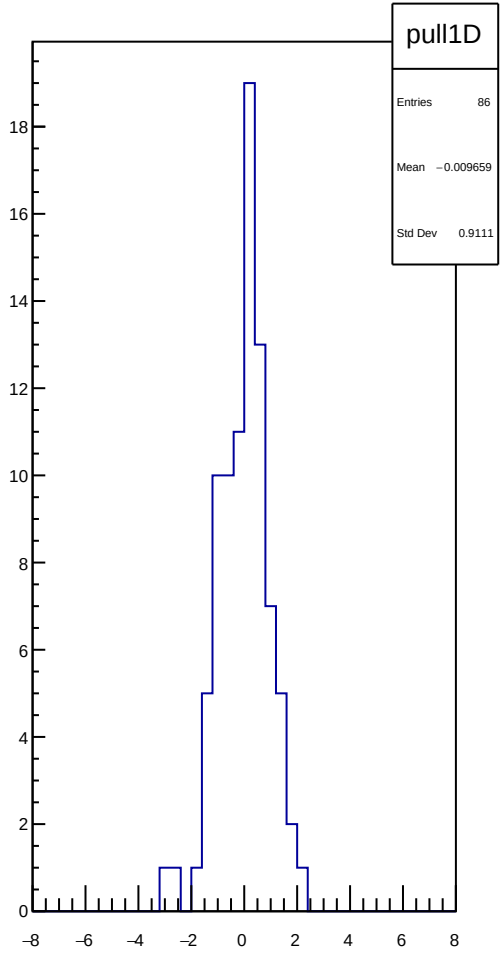

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 2.976e+04 / 85
p0 4560 ± 3.605
6000
5500
5000
4500
4000
3500

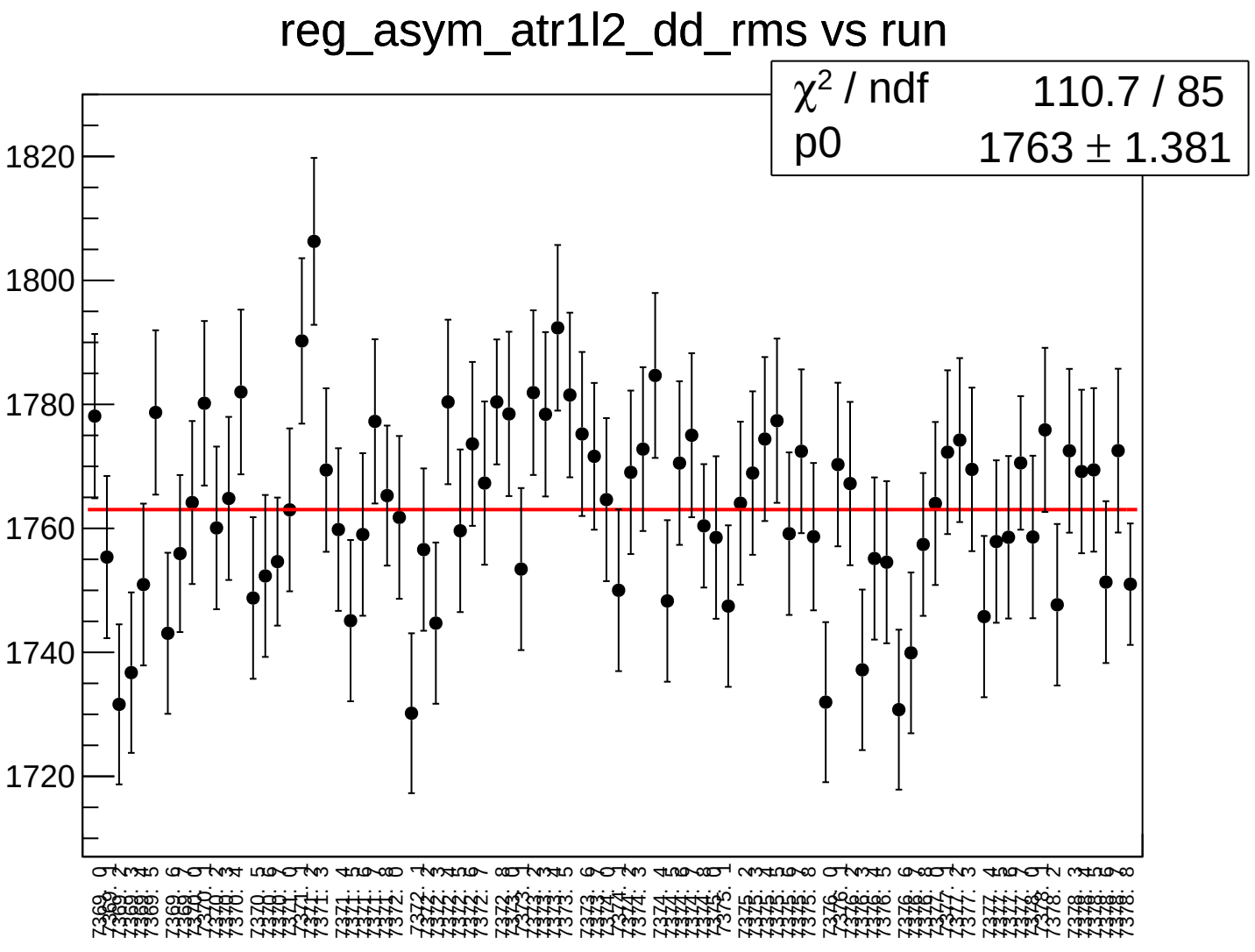

asym_atr1l2_avg_mean vs run
χ² / ndf 105.9 / 85
p0 5023 ± 5483
×10³
pull
Entries 86
Mean 38.73
Std Dev 135.9

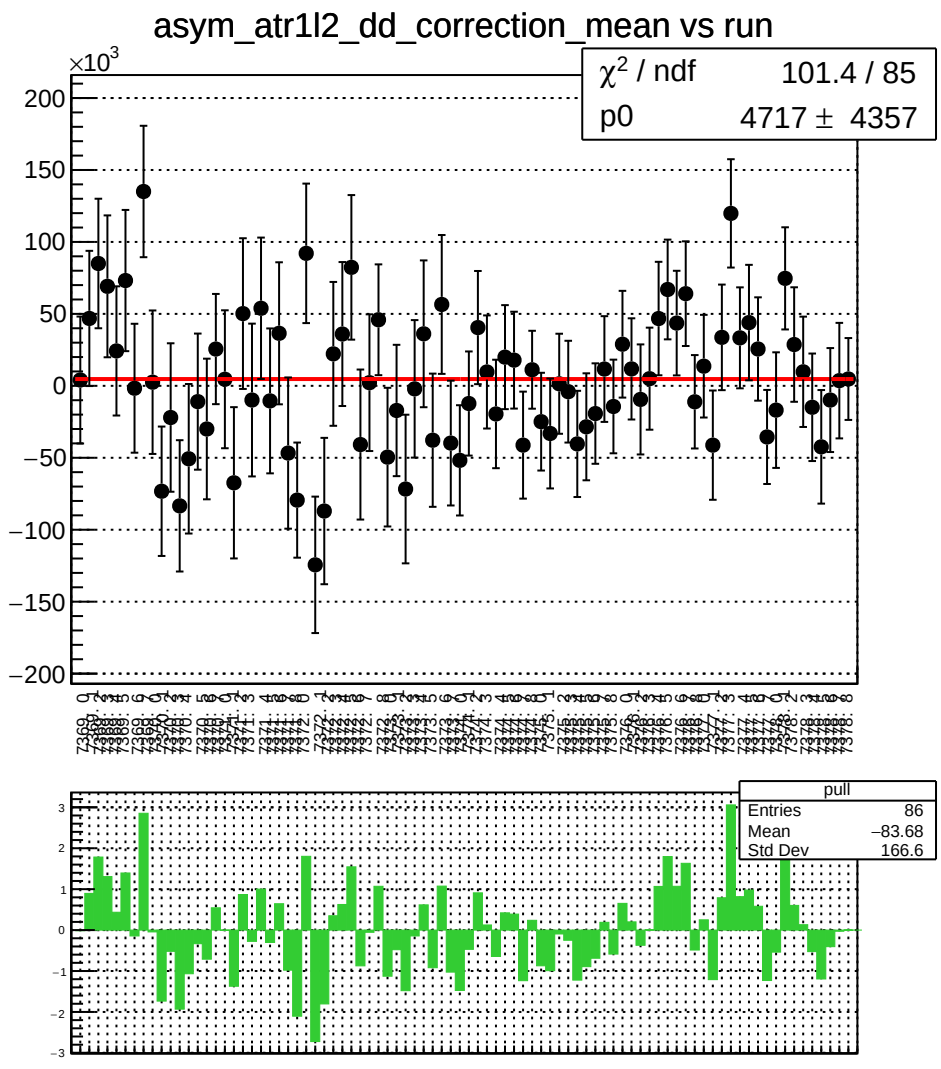

pull1D
Entries 86
Mean −0.004559
Std Dev 1.11

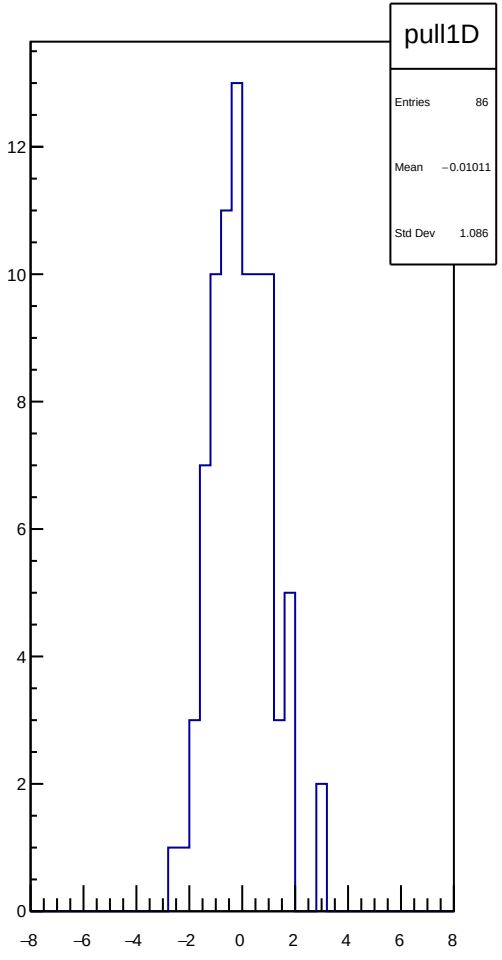

asym_atr1l2_avg_rms vs run
χ² / ndf 2.287e+04 / 85
p0 4915 ± 3.877
6000
5500
5000
4500
4000

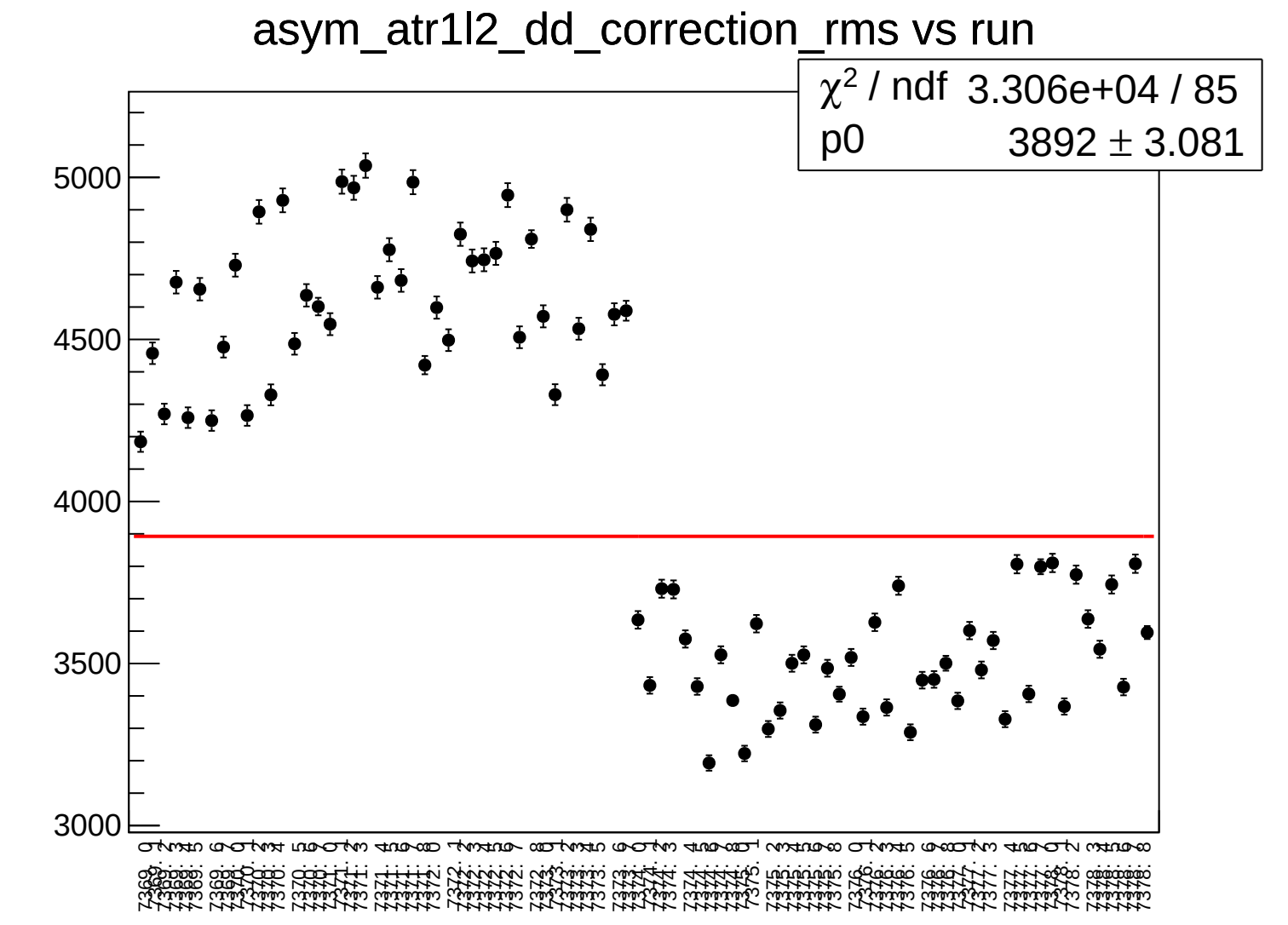

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 71.4 / 85
p0 −685.4 ± 1953
pull
Entries 86
Mean 4.785
Std Dev 38.36

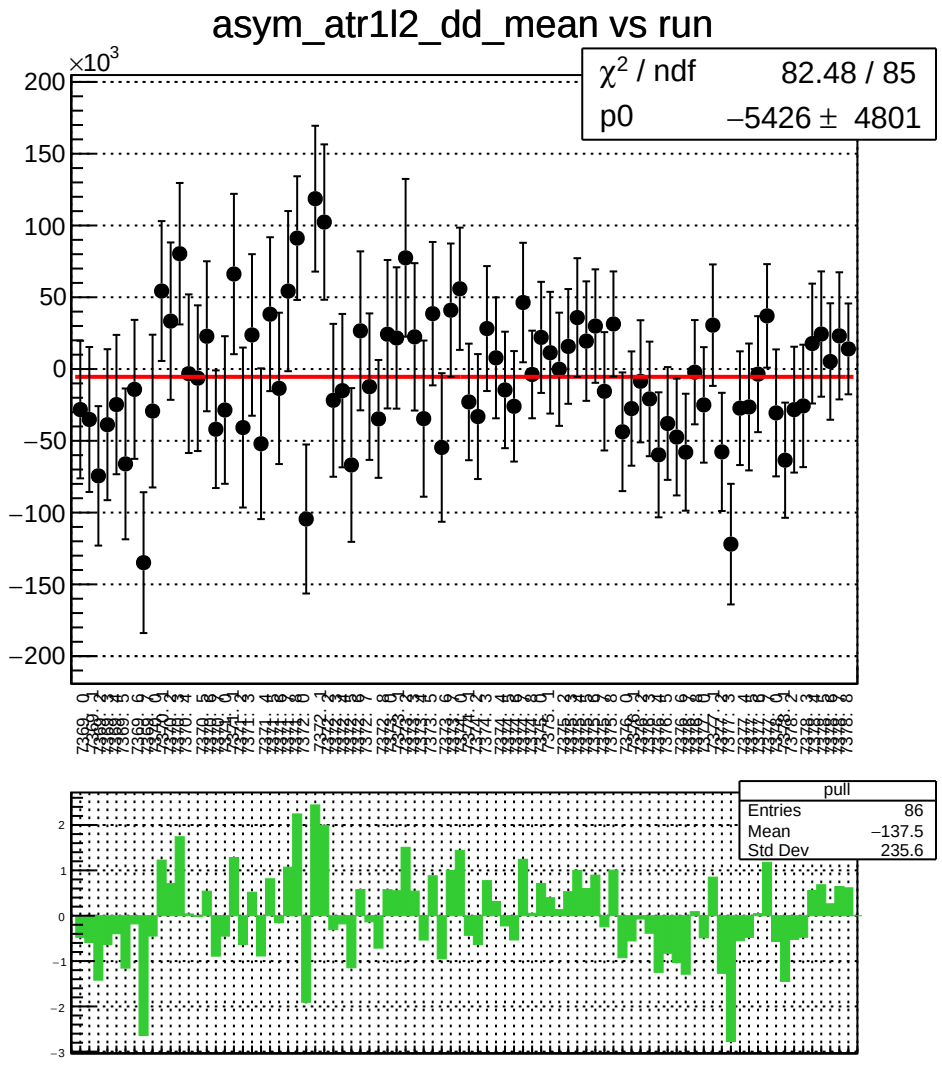

pull1D
Entries 86
Mean −0.009659
Std Dev 0.9111

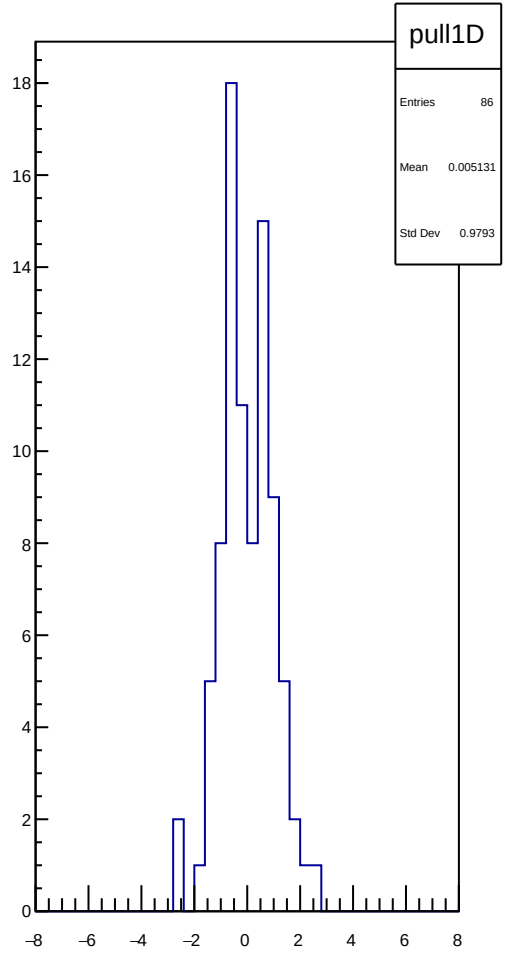

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 110.7 / 85
p0 1763 ± 1.381
1820
1800
1780
1760
1740
1720

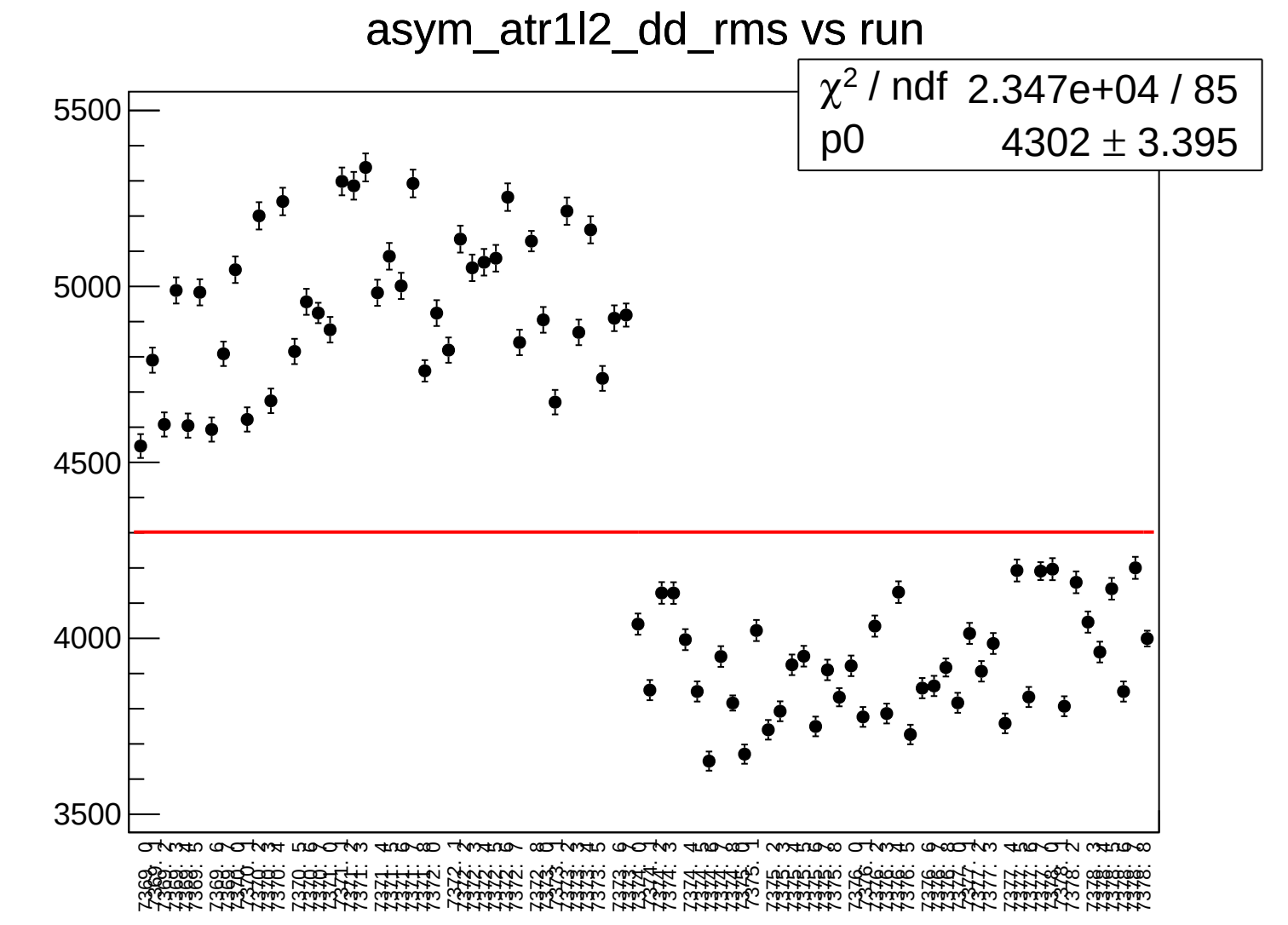

asym_atr1l2_dd_correction_mean vs run
×10^3
χ² / ndf 101.4 / 85
p0 4717 ± 4357
pull
Entries 86
Mean −83.68
Std Dev 166.6

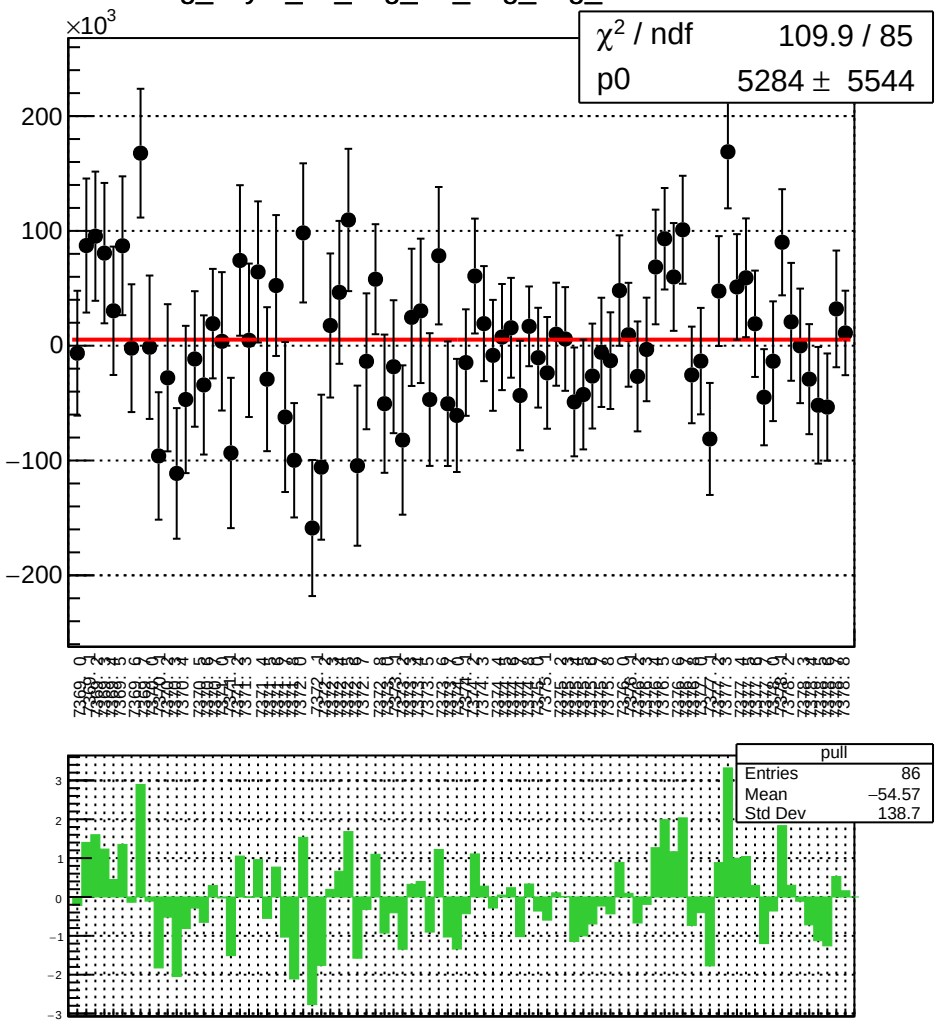

pull1D
Entries 86
Mean −0.01011
Std Dev 1.086

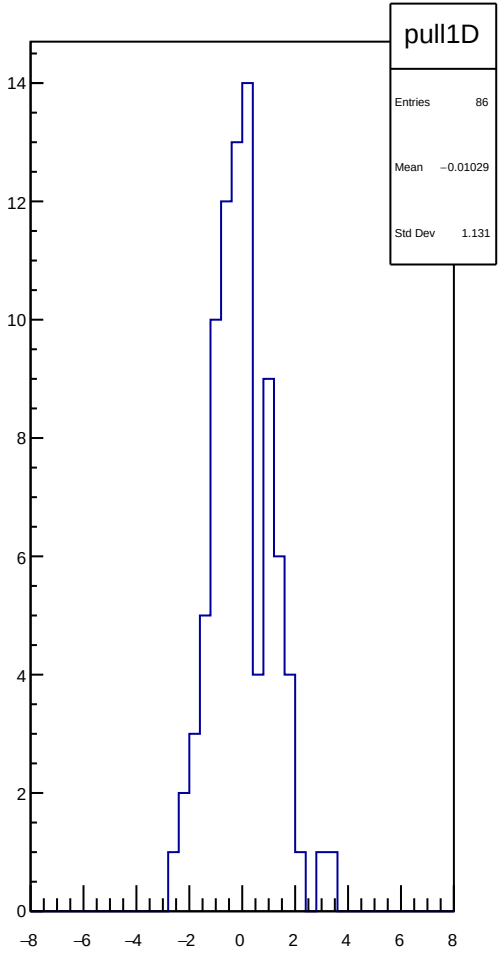

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 3.306e+04 / 85
p0 3892 ± 3.081
5000
4500
4000
3500
3000

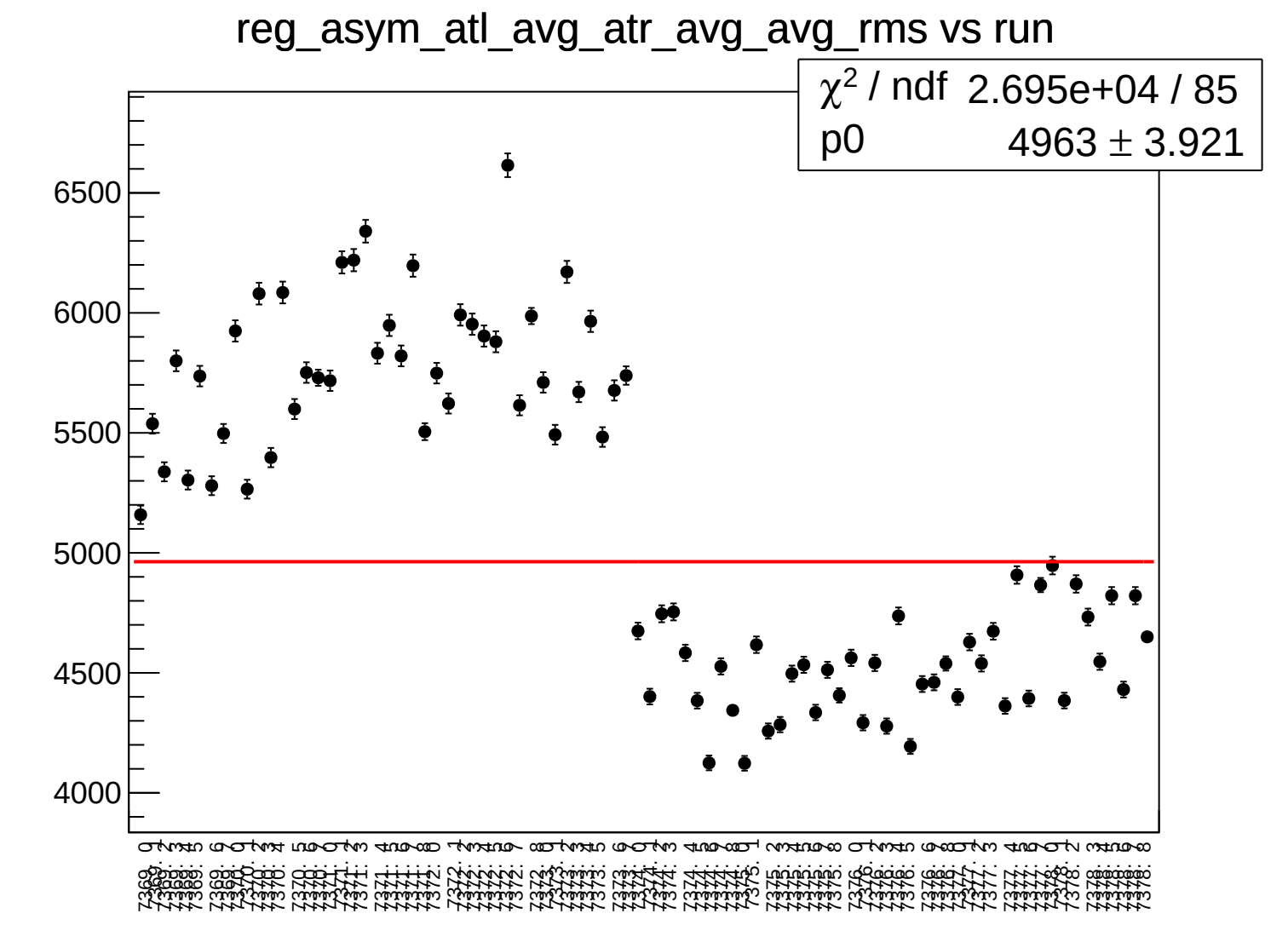

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 82.48 / 85
p0 −5426 ± 4801
pull
Entries 86
Mean −137.5
Std Dev 235.6

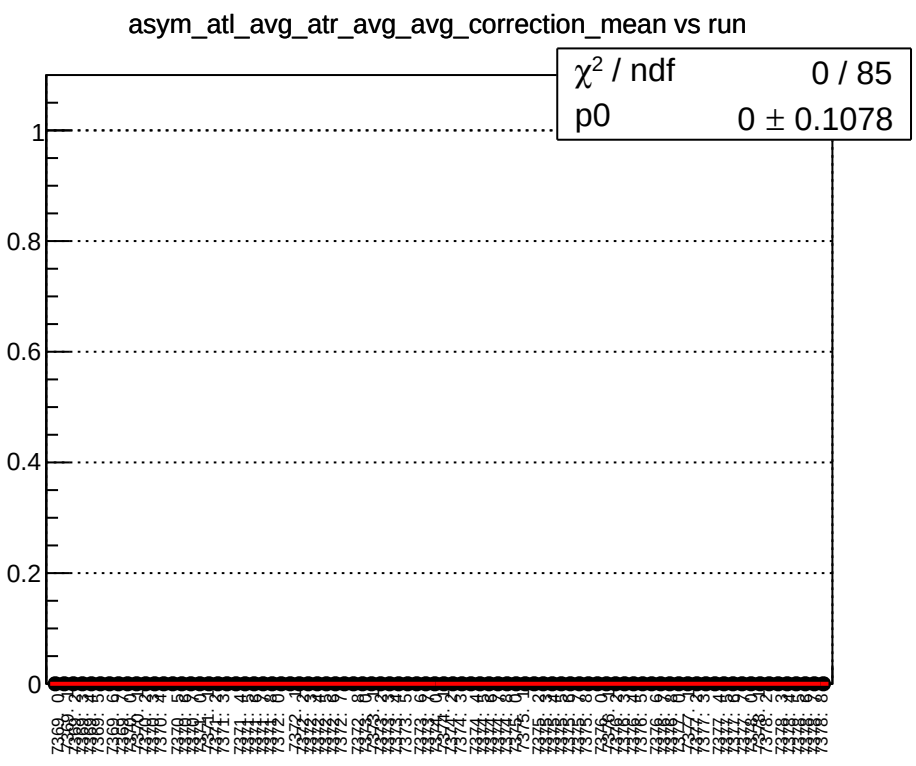

pull1D
Entries 86
Mean 0.005131
Std Dev 0.9793

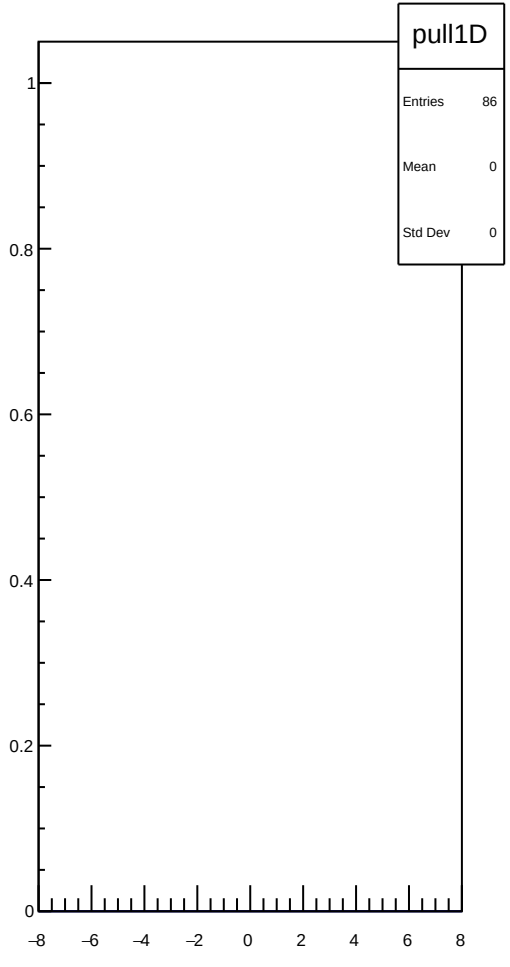

asym_atr1l2_dd_rms vs run
χ² / ndf 2.347e+04 / 85
p0 4302 ± 3.395
5500
5000
4500
4000
3500

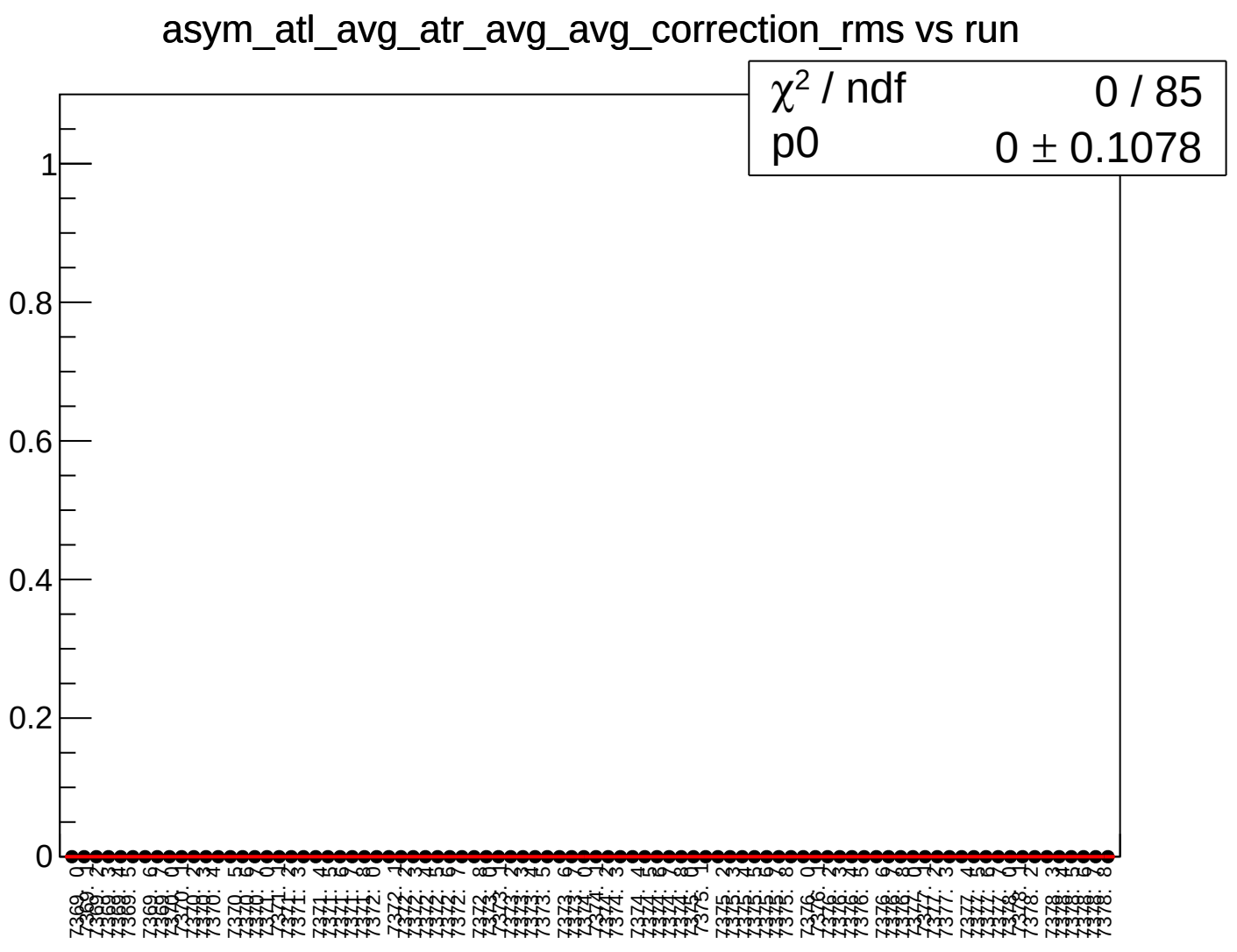

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 109.9 / 85
p0 5284 ± 5544
200
100
0
−100
−200
pull
Entries 86
Mean −54.57
Std Dev 138.7
3
2
1
0
−1
−2
−3

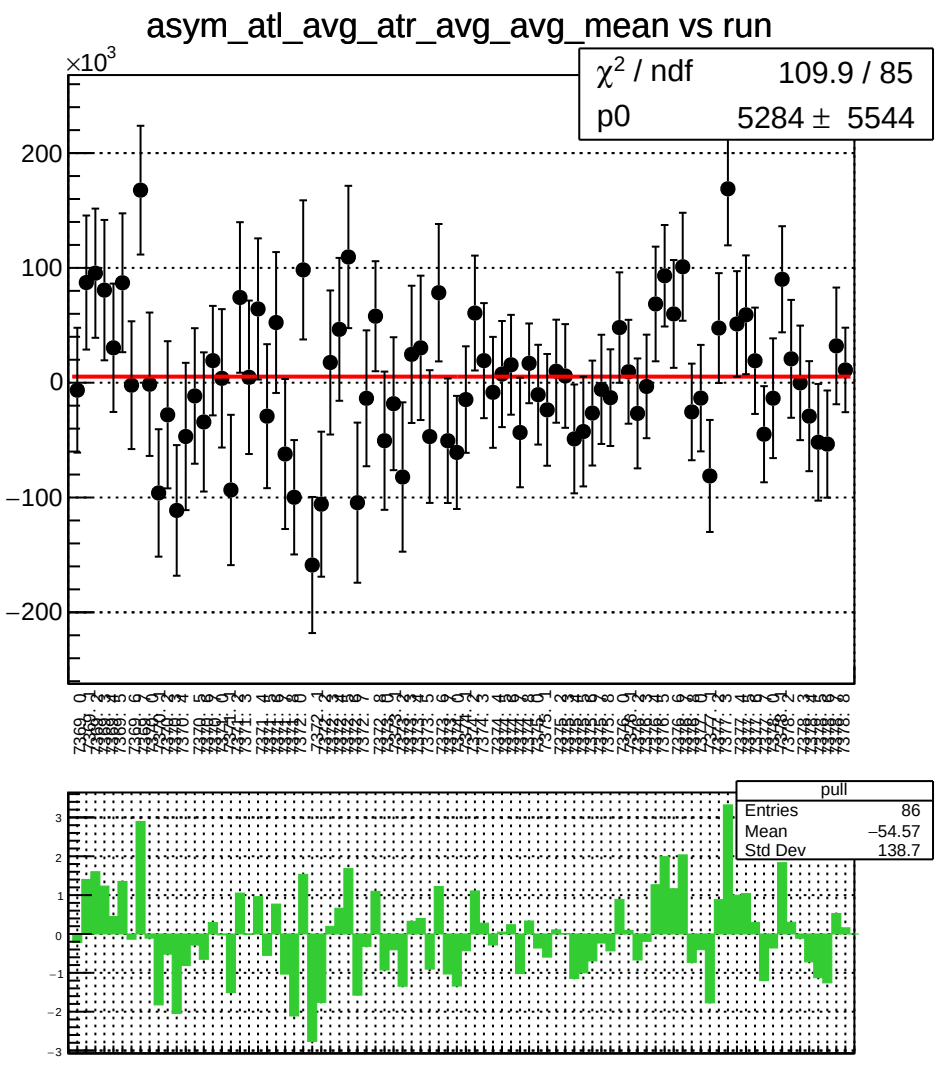

pull1D
Entries 86
Mean −0.01029
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

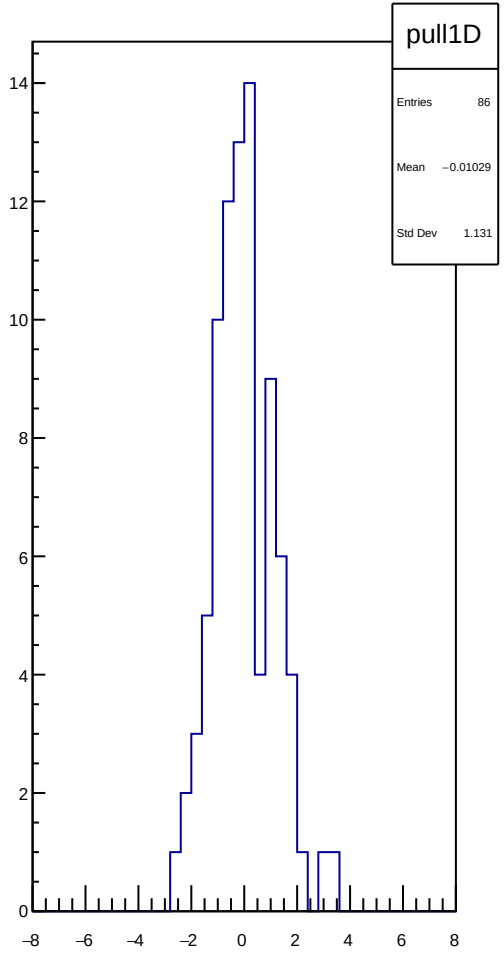

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2.695e+04 / 85
p0 4963 ± 3.921
6500
6000
5500
5000
4500
4000

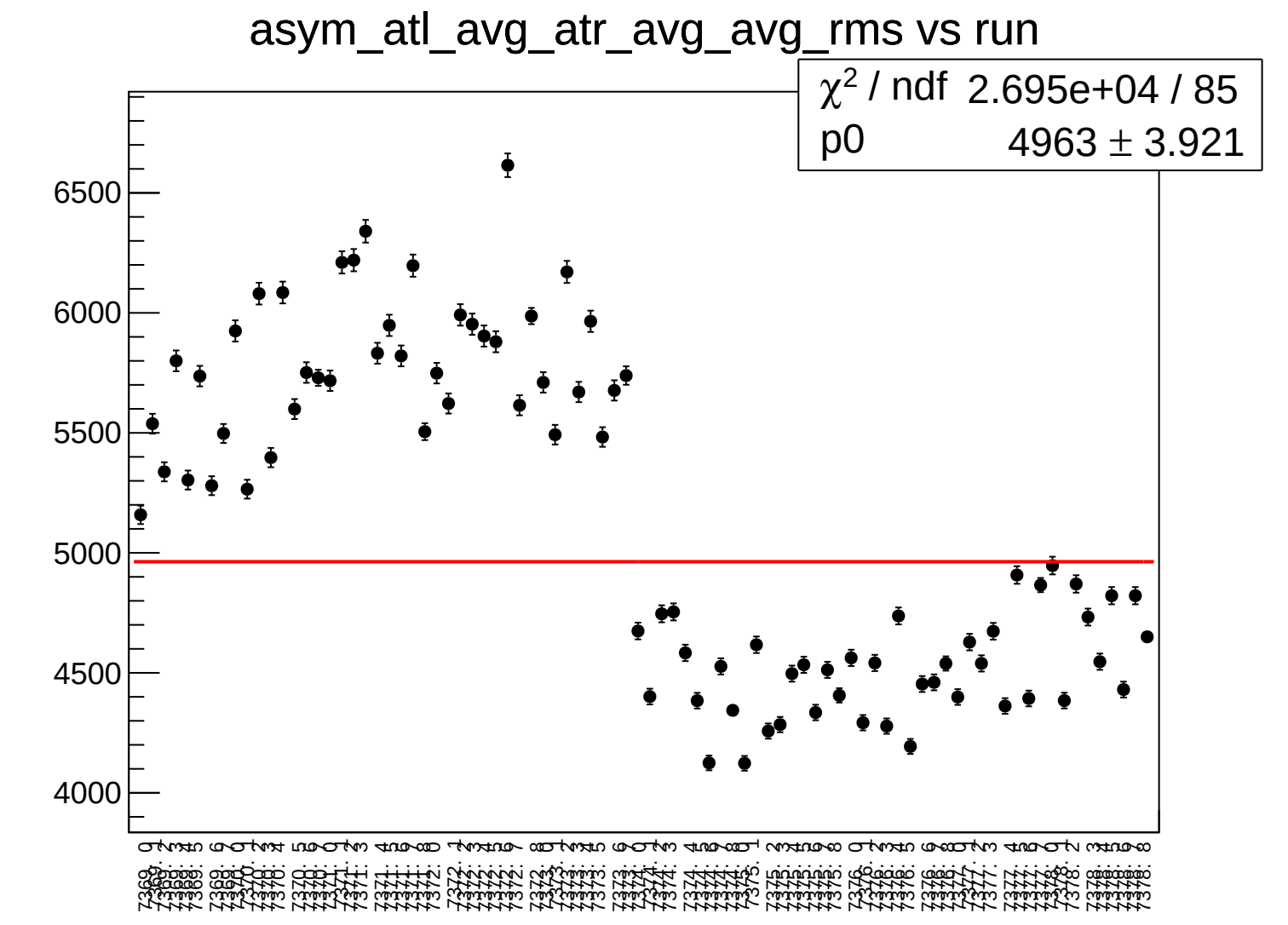

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 85
p0 0 ± 0.1078
1
0.8
0.6
0.4
0.2
0

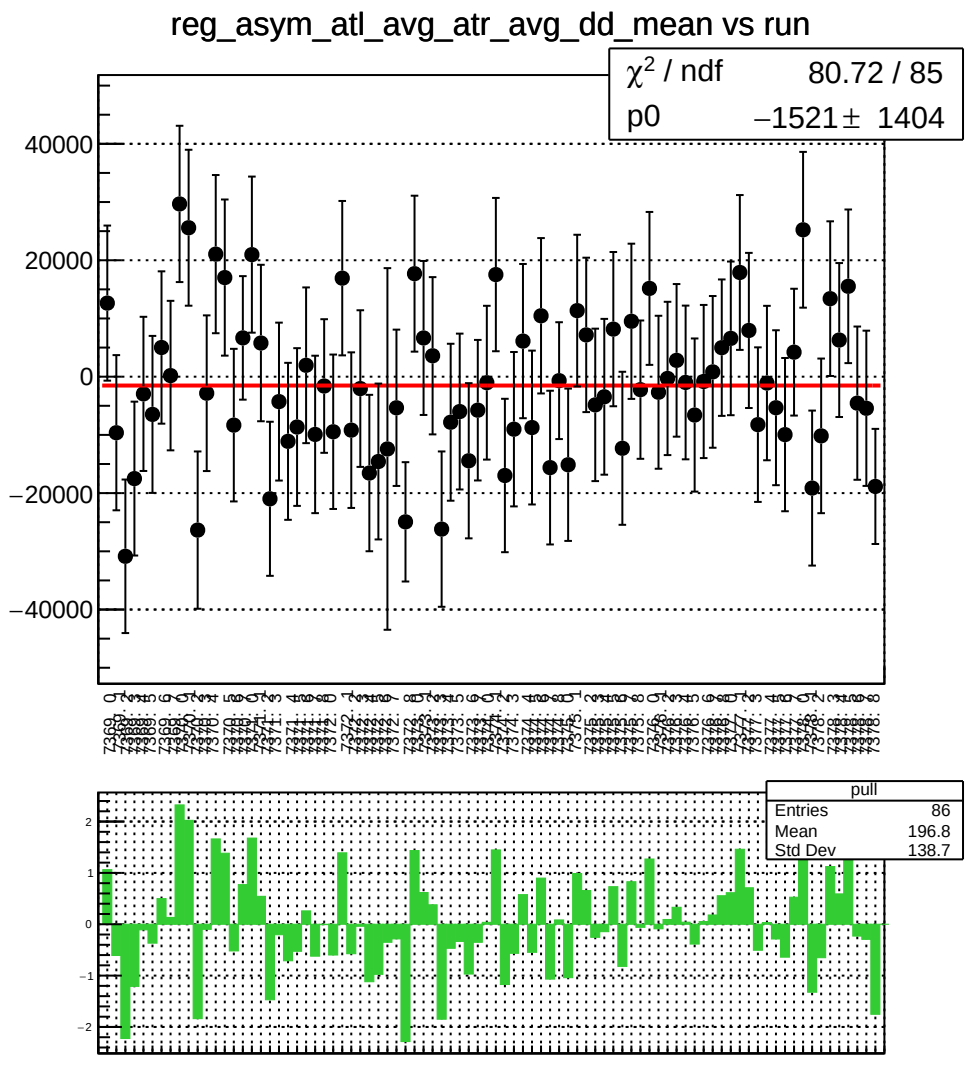

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

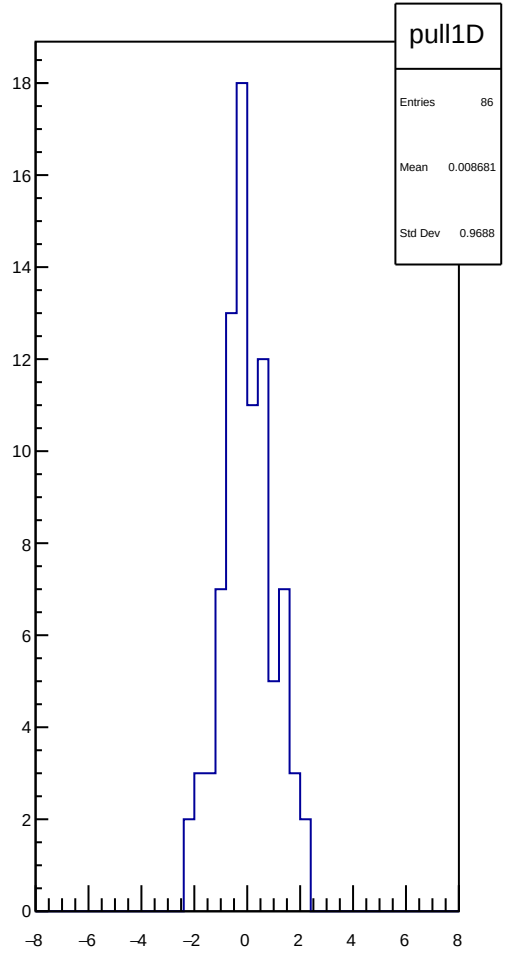

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 85
p0 0 ± 0.1078
1
0.8
0.6
0.4
0.2
0

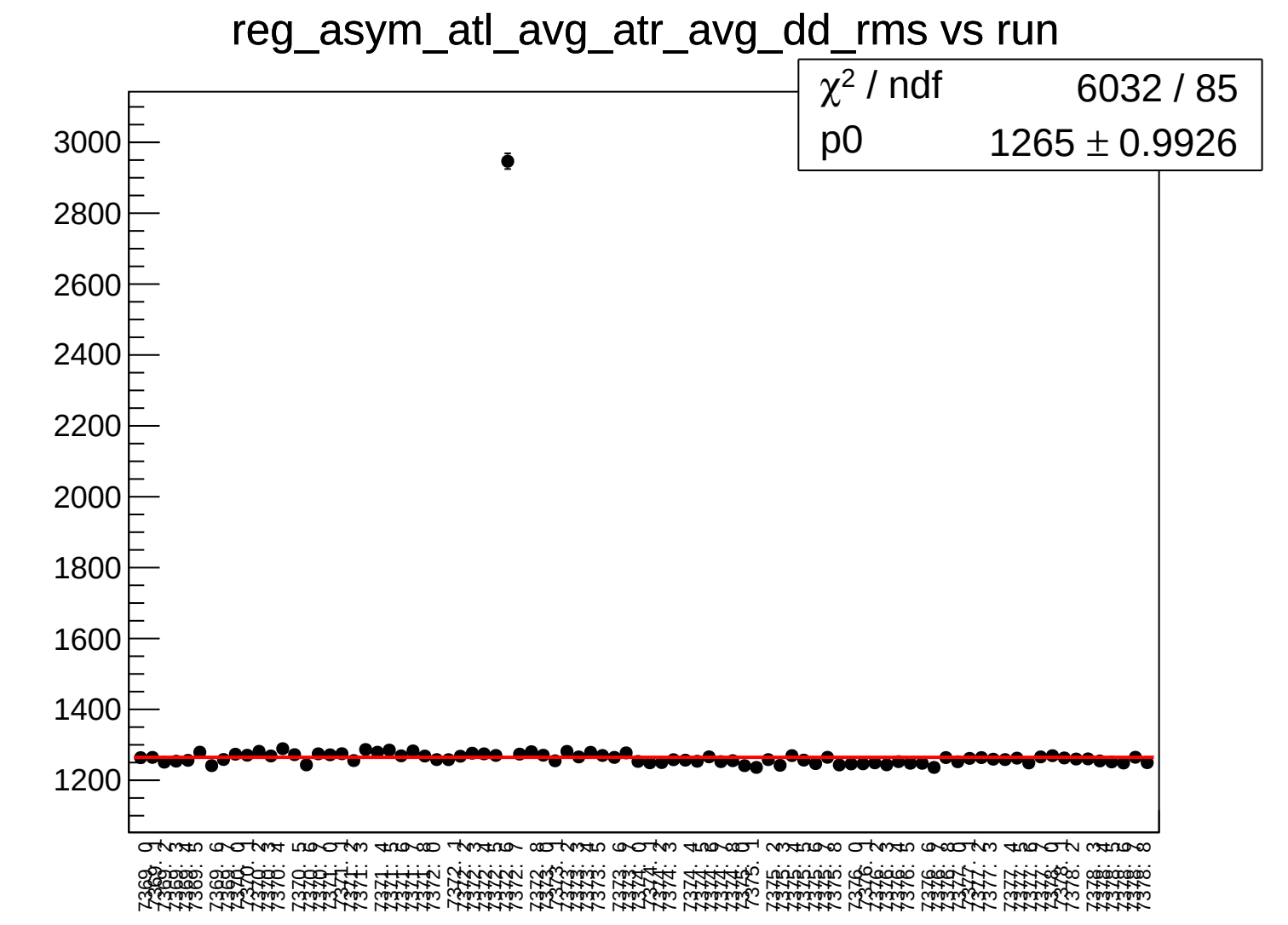

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 109.9 / 85
p0 5284 ± 5544
200
100
0
−100
−200
pull
Entries 86
Mean −54.57
Std Dev 138.7
3
2
1
0
−1
−2
−3

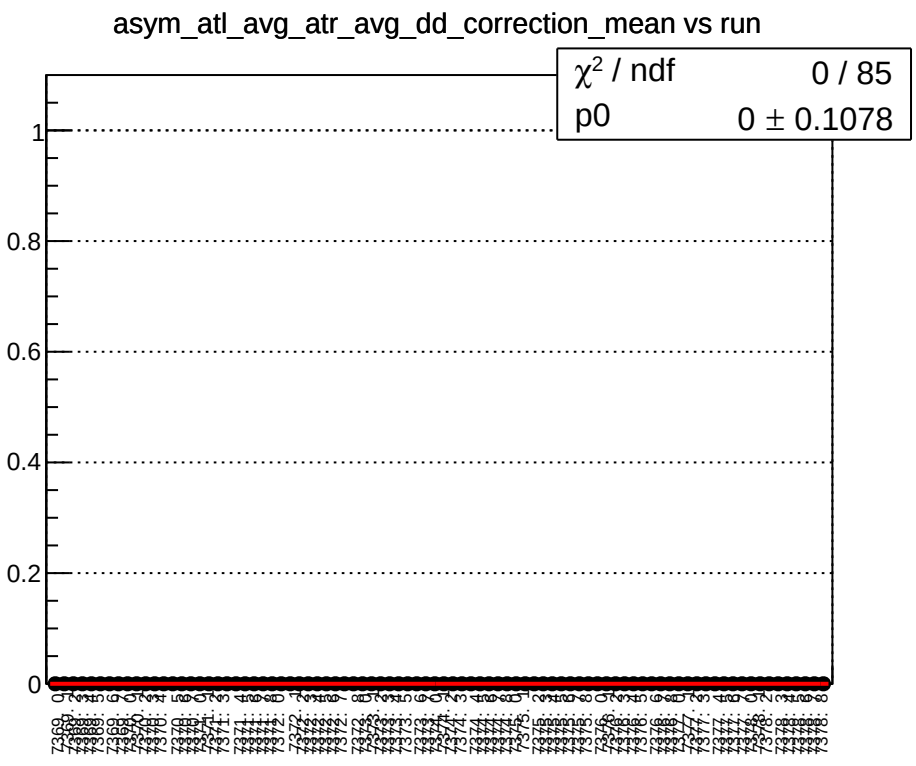

pull1D
Entries 86
Mean −0.01029
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

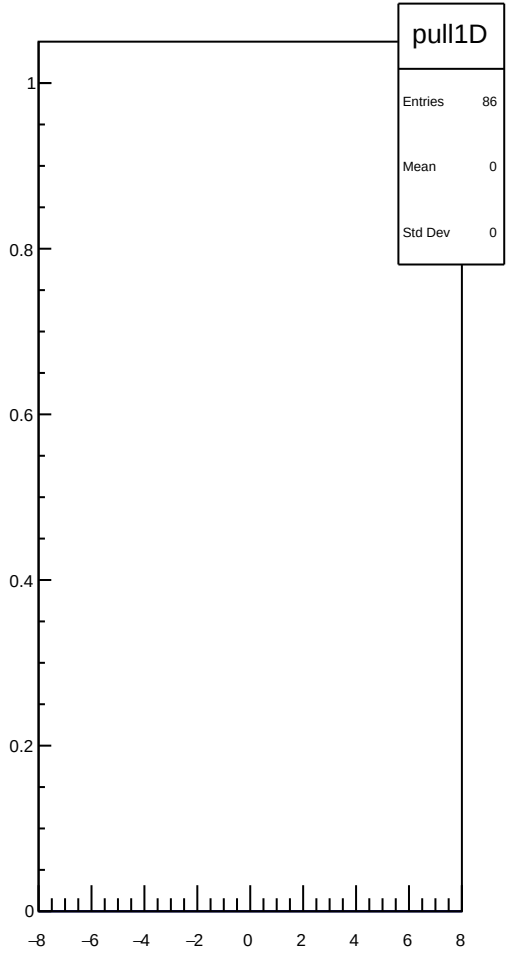

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2.695e+04 / 85
p0 4963 ± 3.921
6500
6000
5500
5000
4500
4000

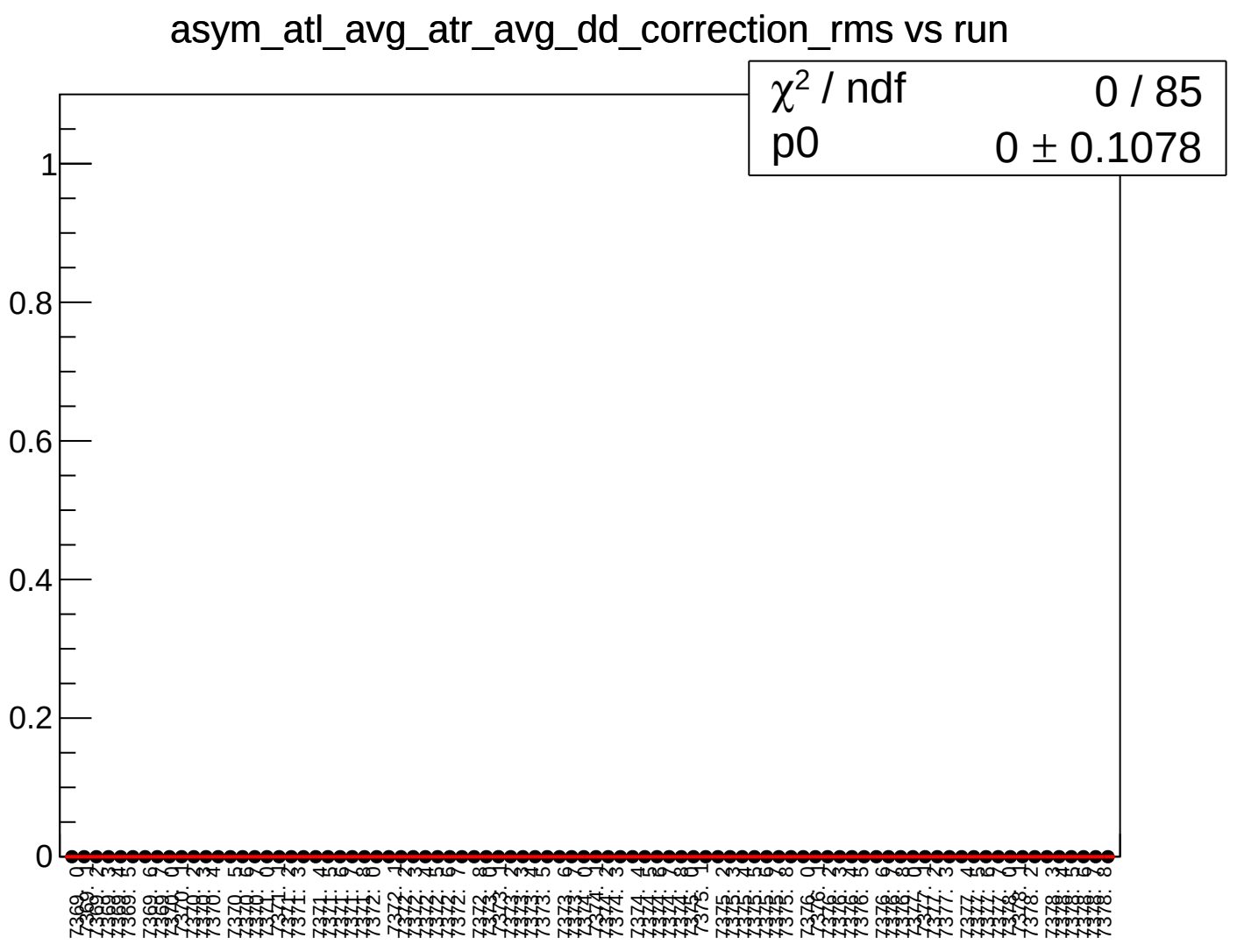

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 80.72 / 85
p0 −1521 ± 1404
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 196.8
Std Dev 138.7
2
1
0
−1
−2

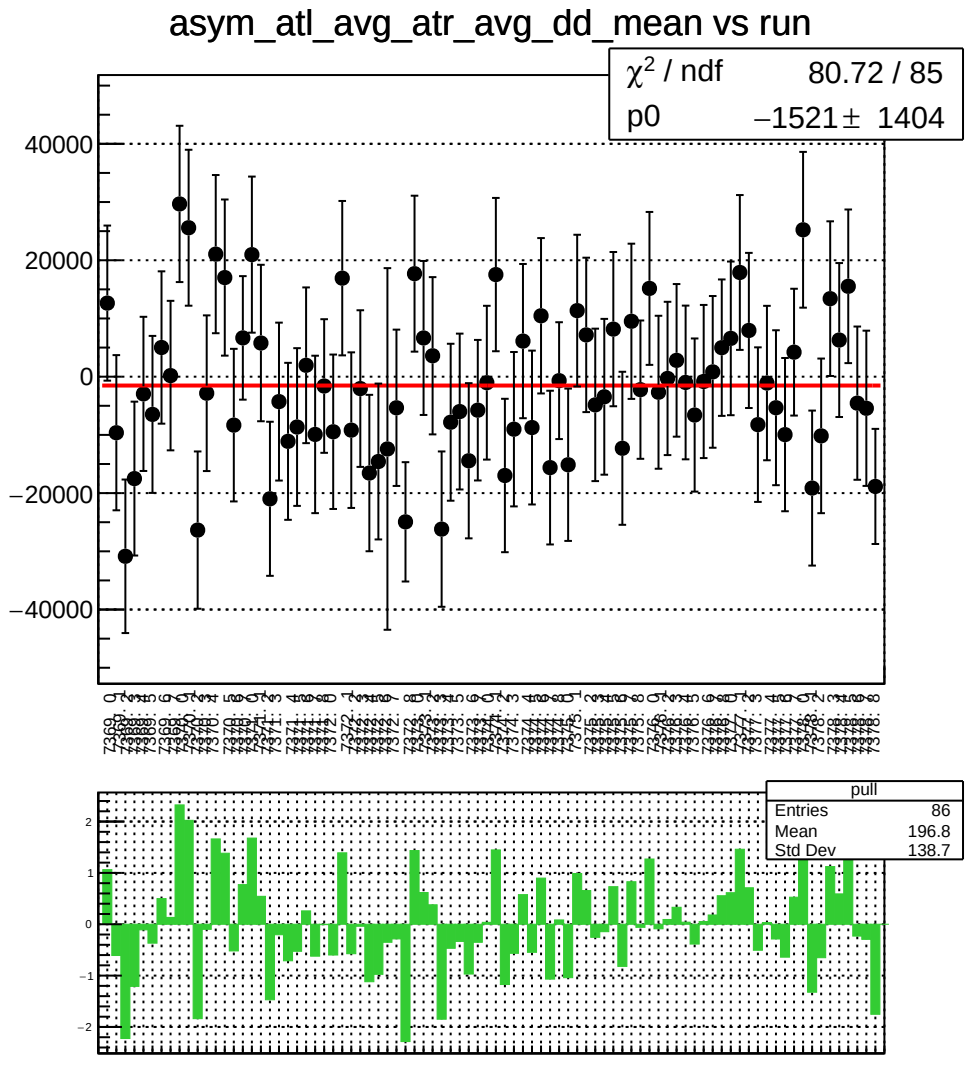

pull1D
Entries 86
Mean 0.008681
Std Dev 0.9688
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

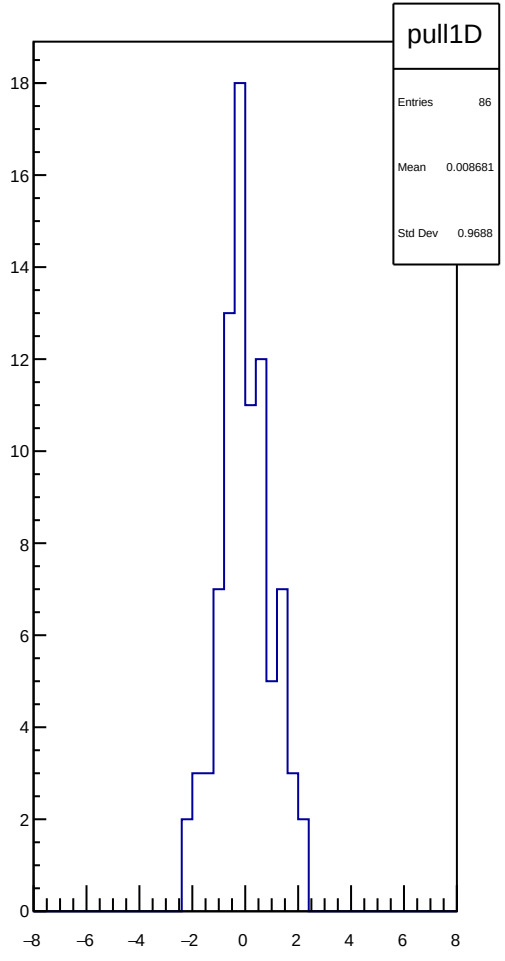

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 6032 / 85
p0 1265 ± 0.9926
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

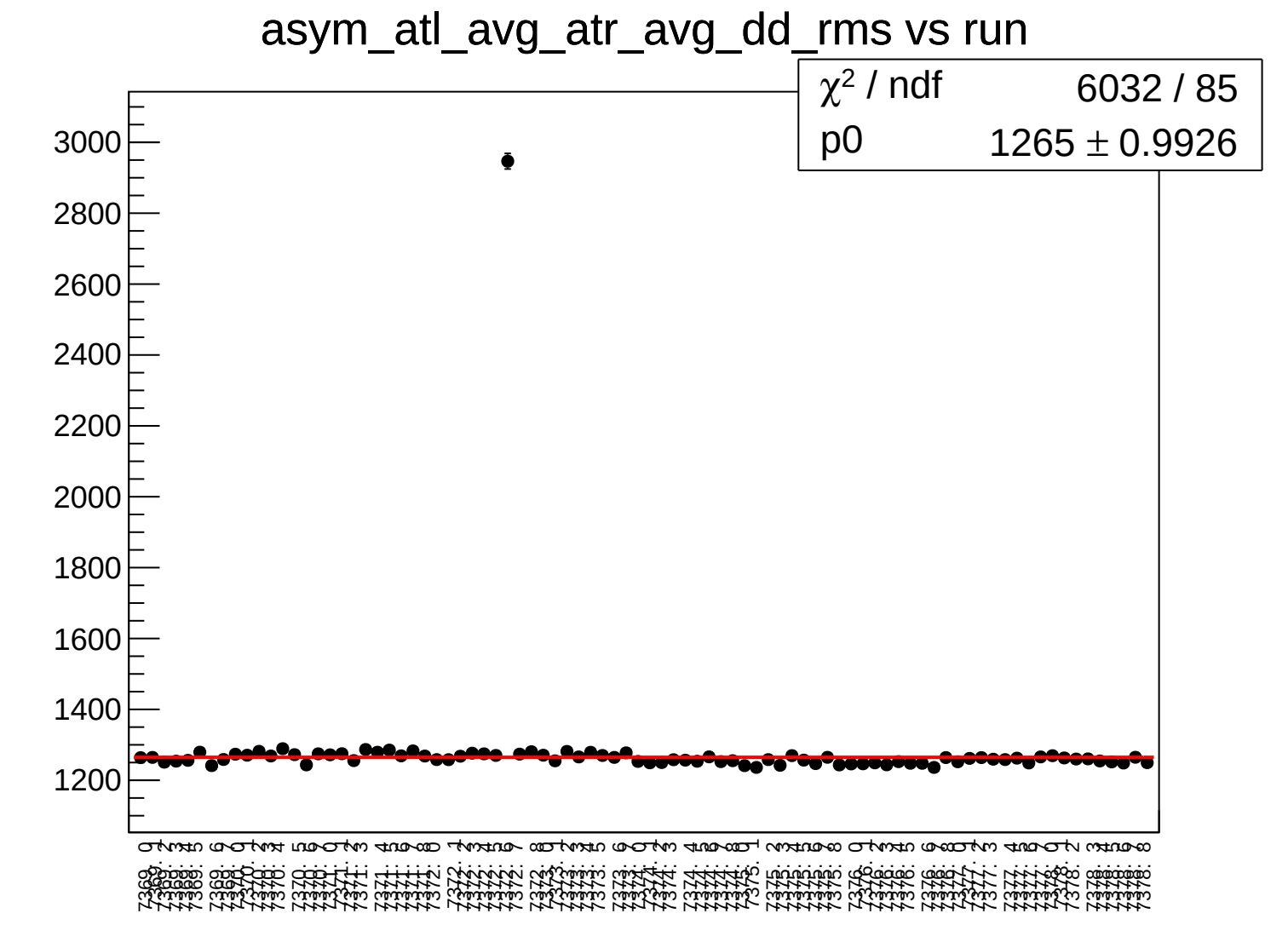

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 85
p0 0 ± 0.1078
1
0.8
0.6
0.4
0.2
0

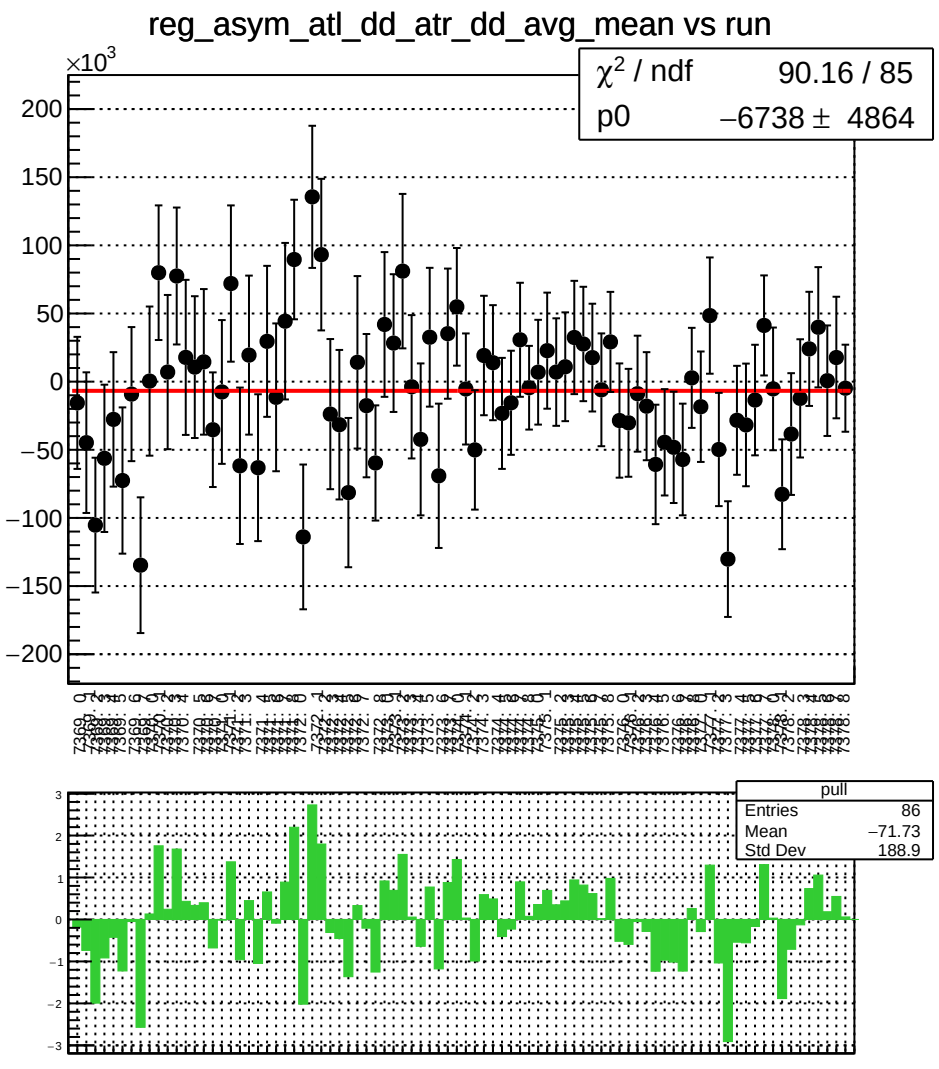

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

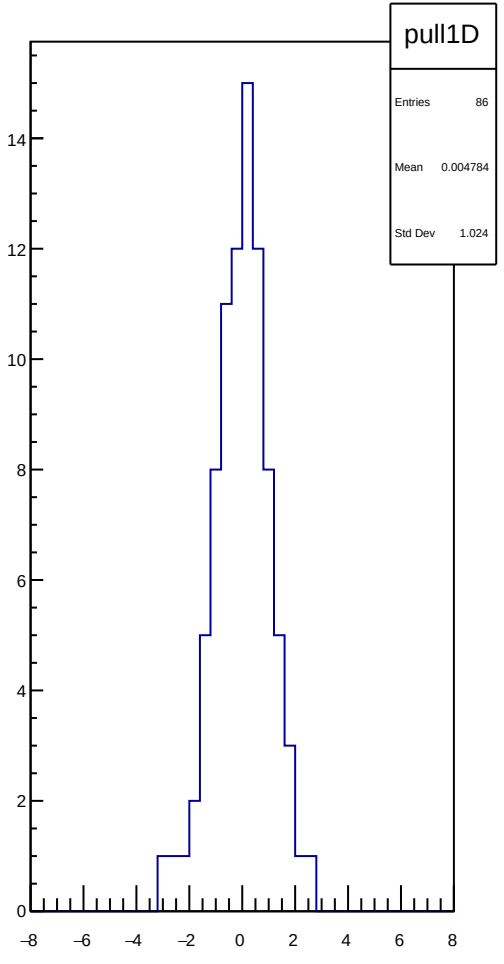

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 85
p0 0 ± 0.1078
1
0.8
0.6
0.4
0.2
0

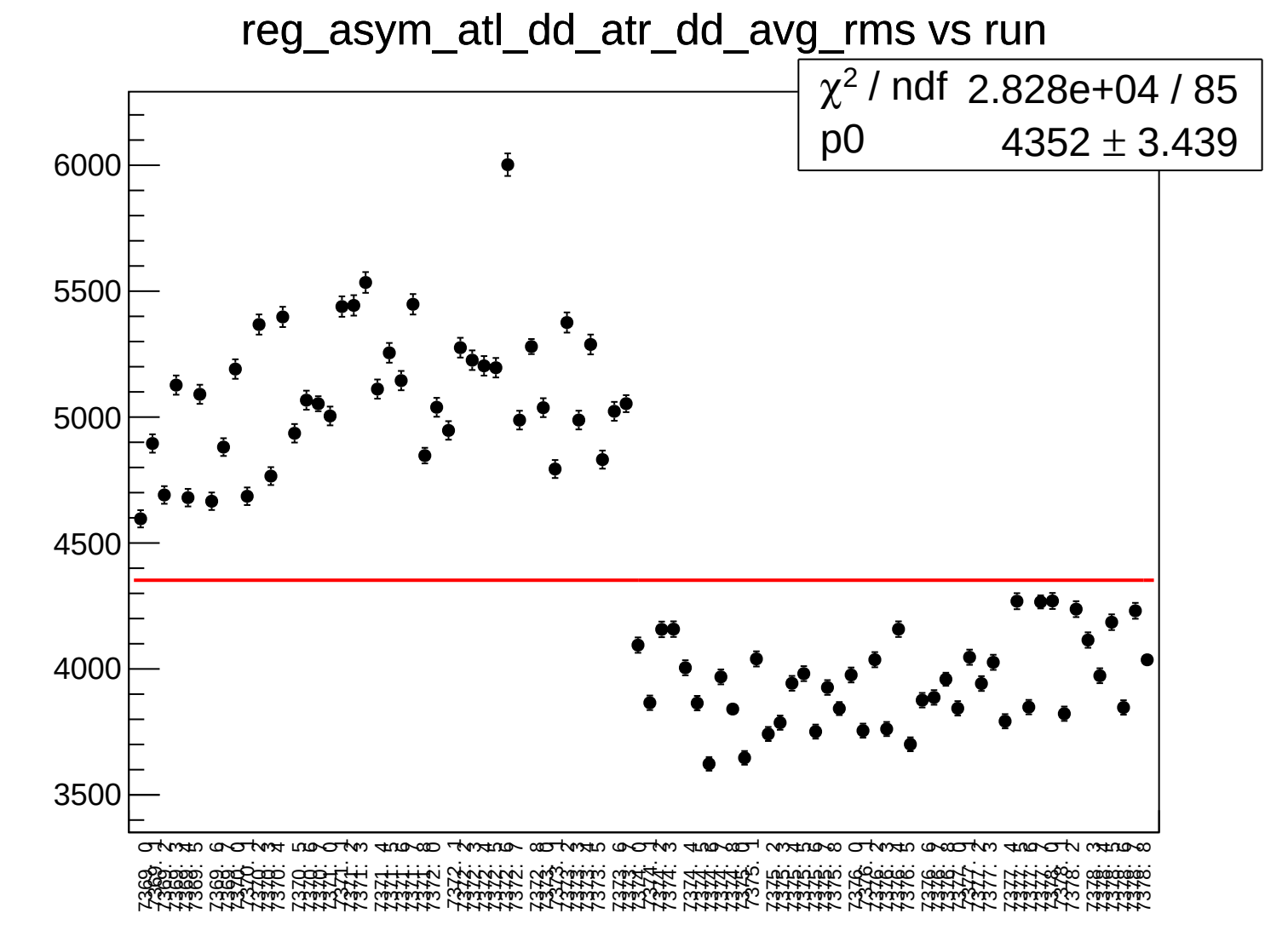

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 80.72 / 85
p0 −1521 ± 1404
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 196.8
Std Dev 138.7
2
1
0
−1
−2

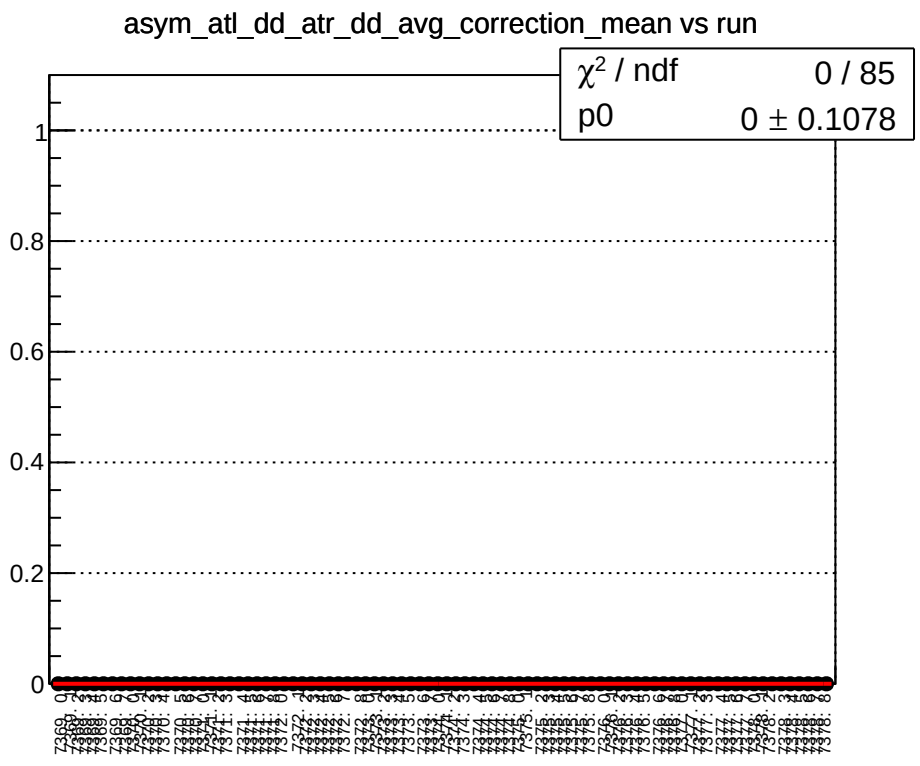

pull1D
Entries 86
Mean 0.008681
Std Dev 0.9688
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

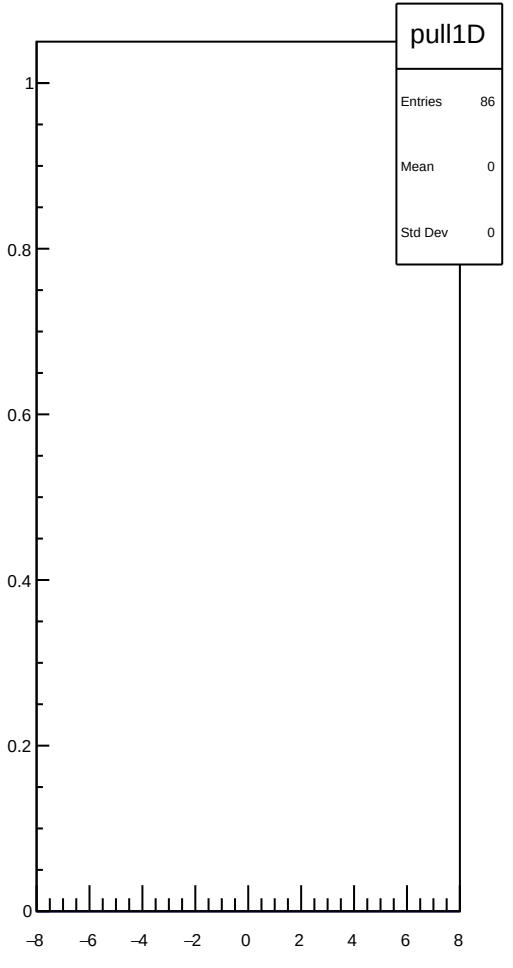

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 6032 / 85
p0 1265 ± 0.9926
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

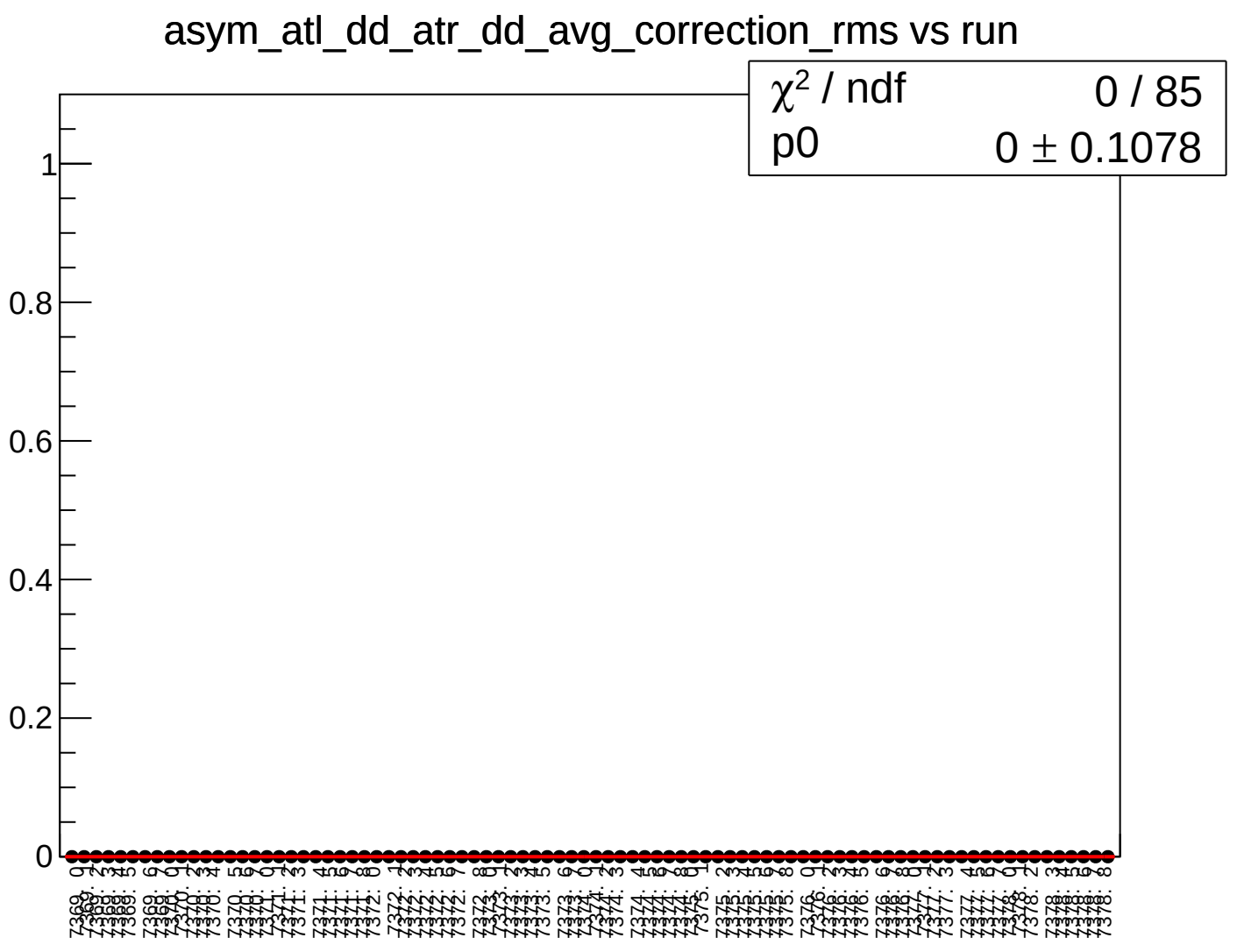

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 90.16 / 85
p0 −6738 ± 4864
pull
Entries 86
Mean −71.73
Std Dev 188.9

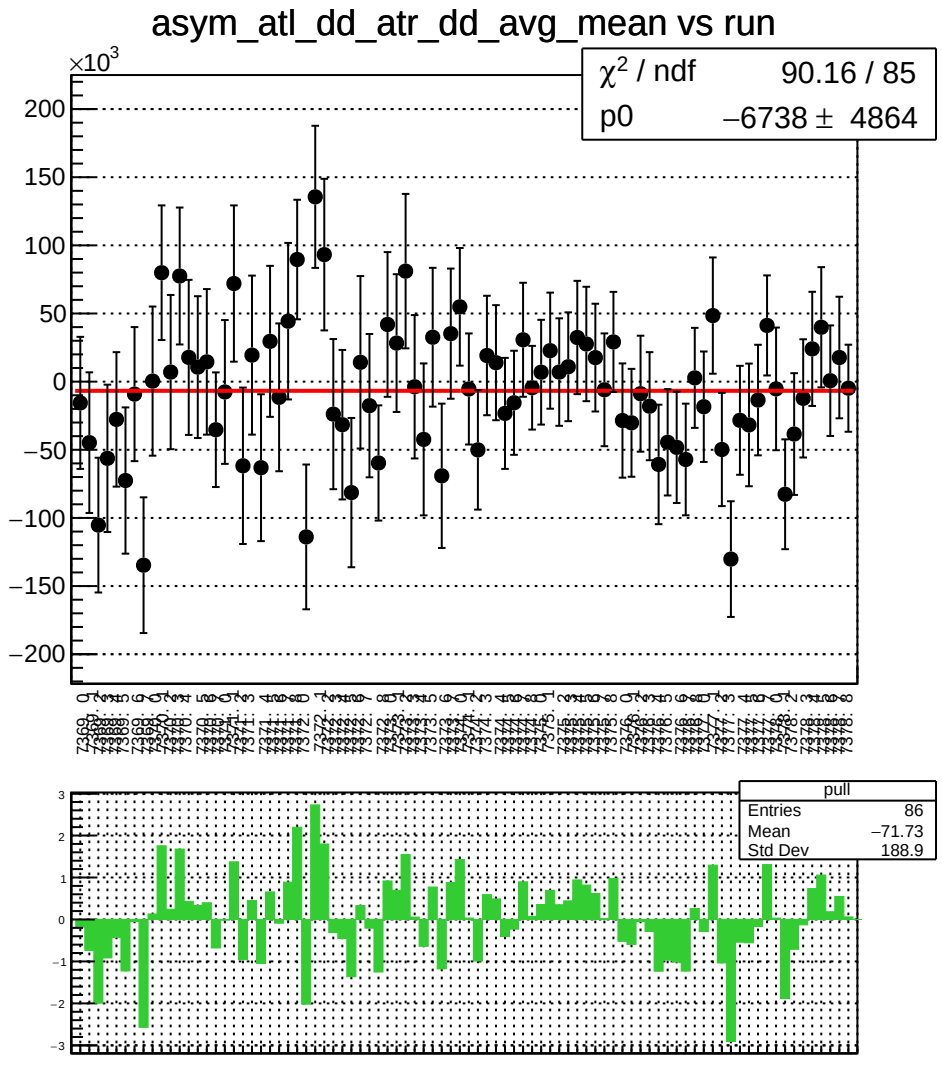

pull1D
Entries 86
Mean 0.004784
Std Dev 1.024

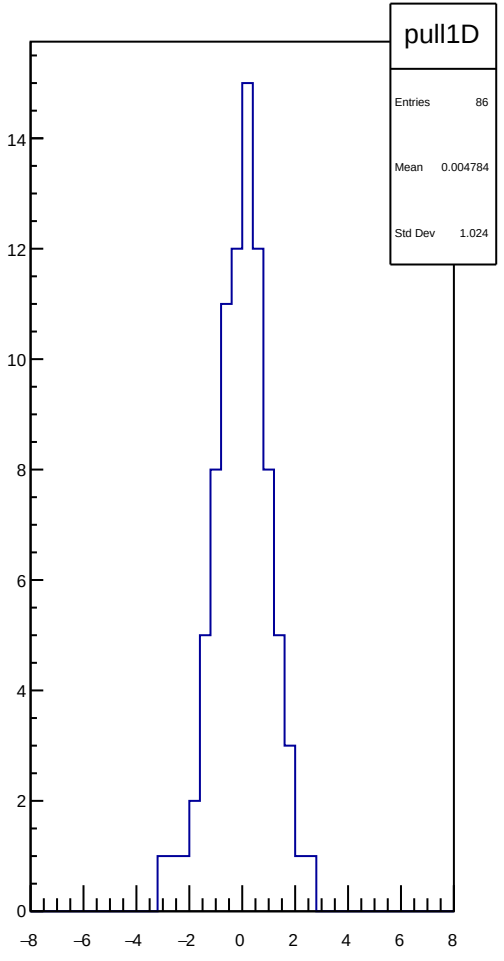

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 2.828e+04 / 85
p0 4352 ± 3.439
6000
5500
5000
4500
4000
3500

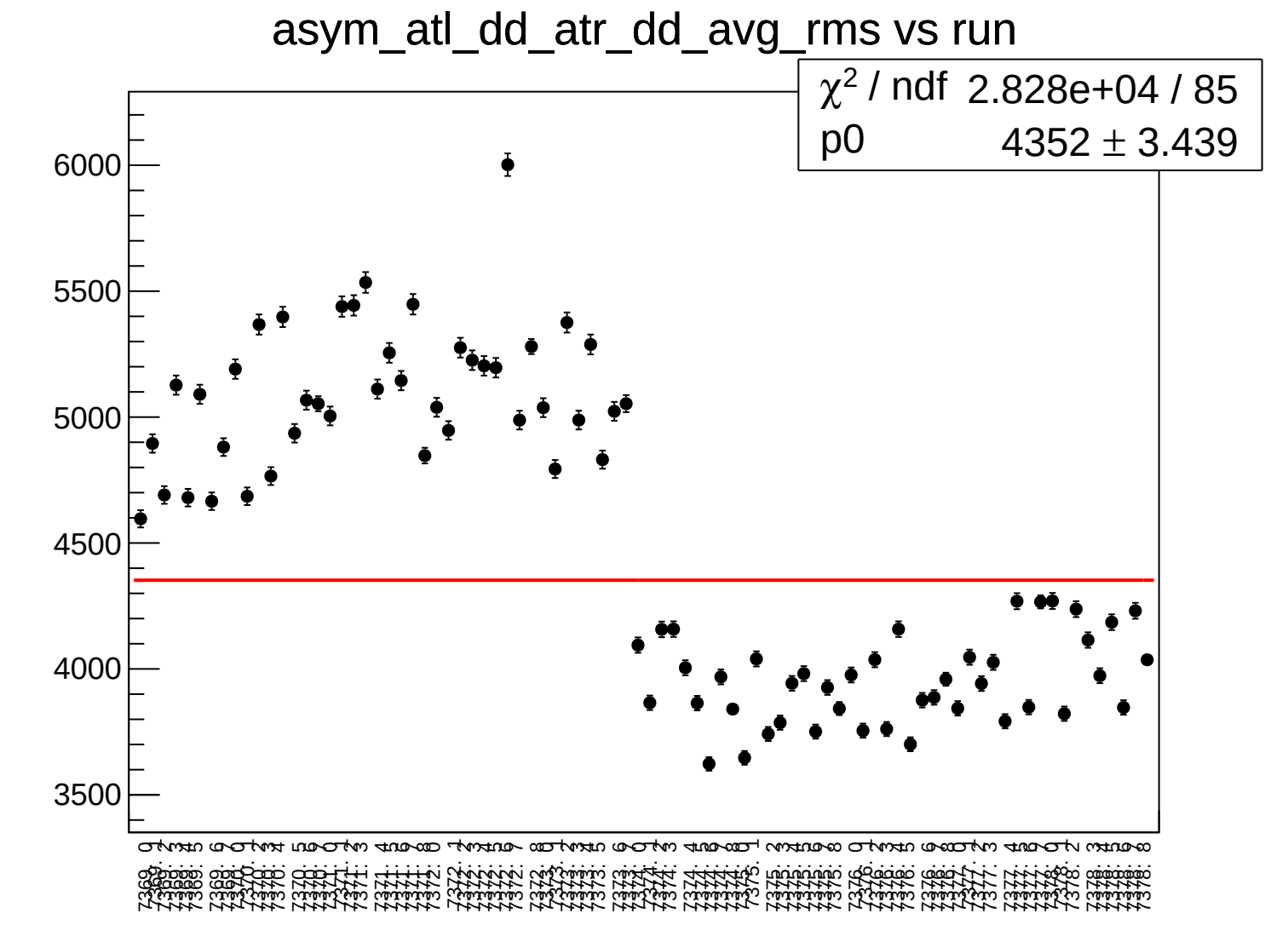

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 85
p0 0 ± 0.1078
1
0.8
0.6
0.4
0.2
0

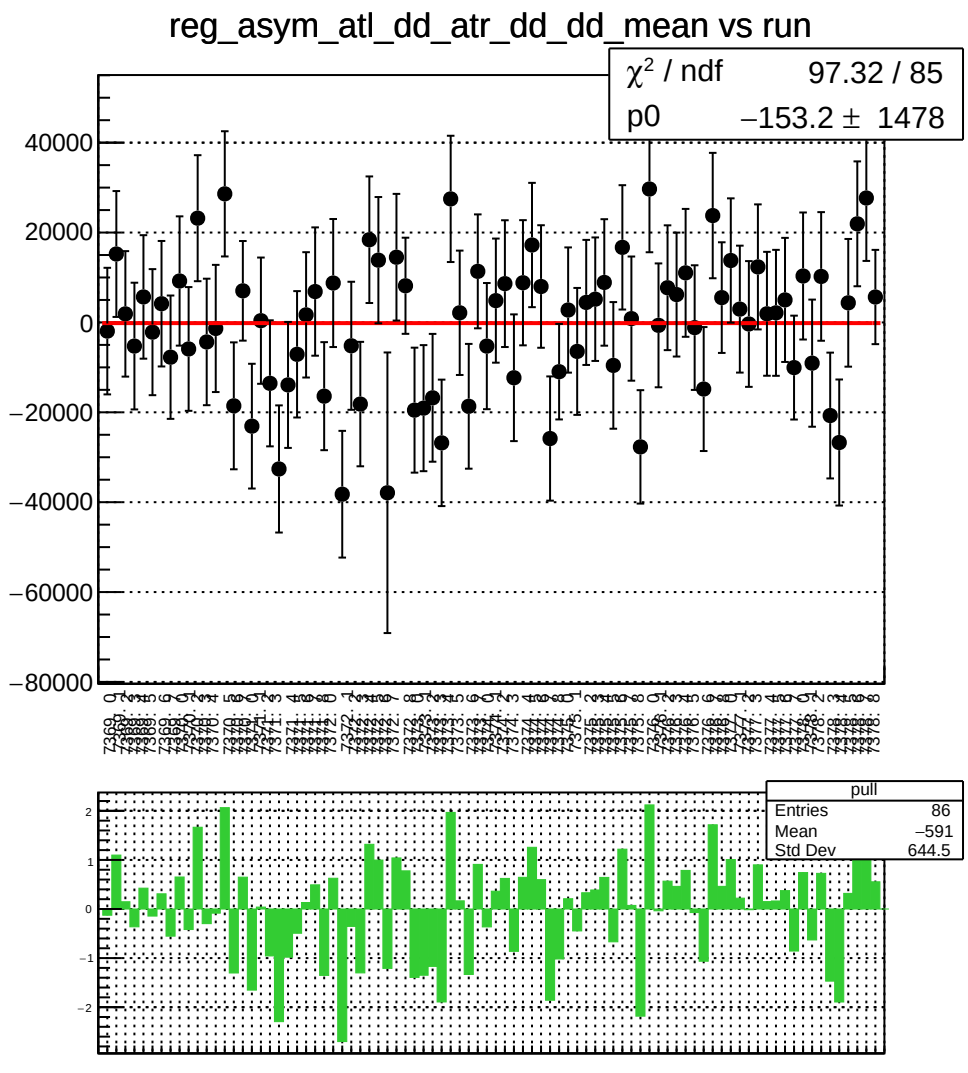

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

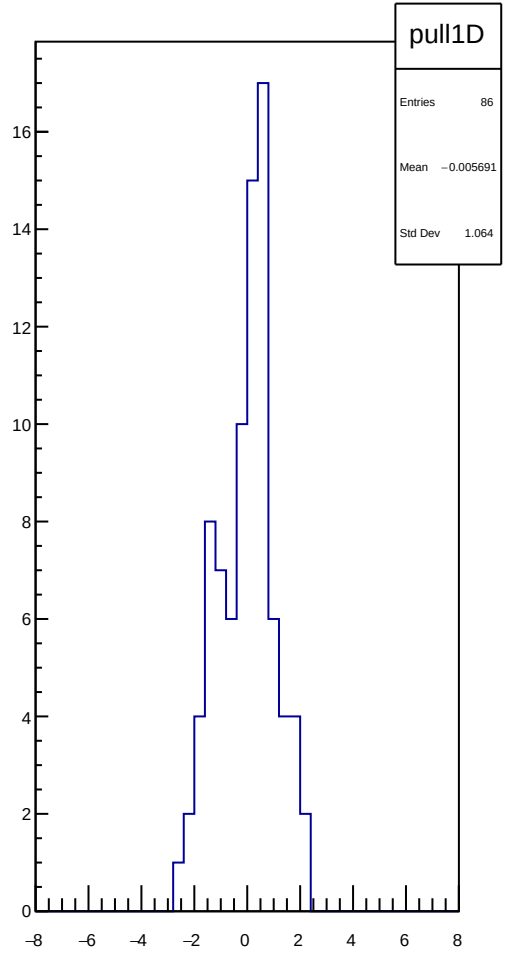

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 85
p0 0 ± 0.1078
1
0.8
0.6
0.4
0.2
0

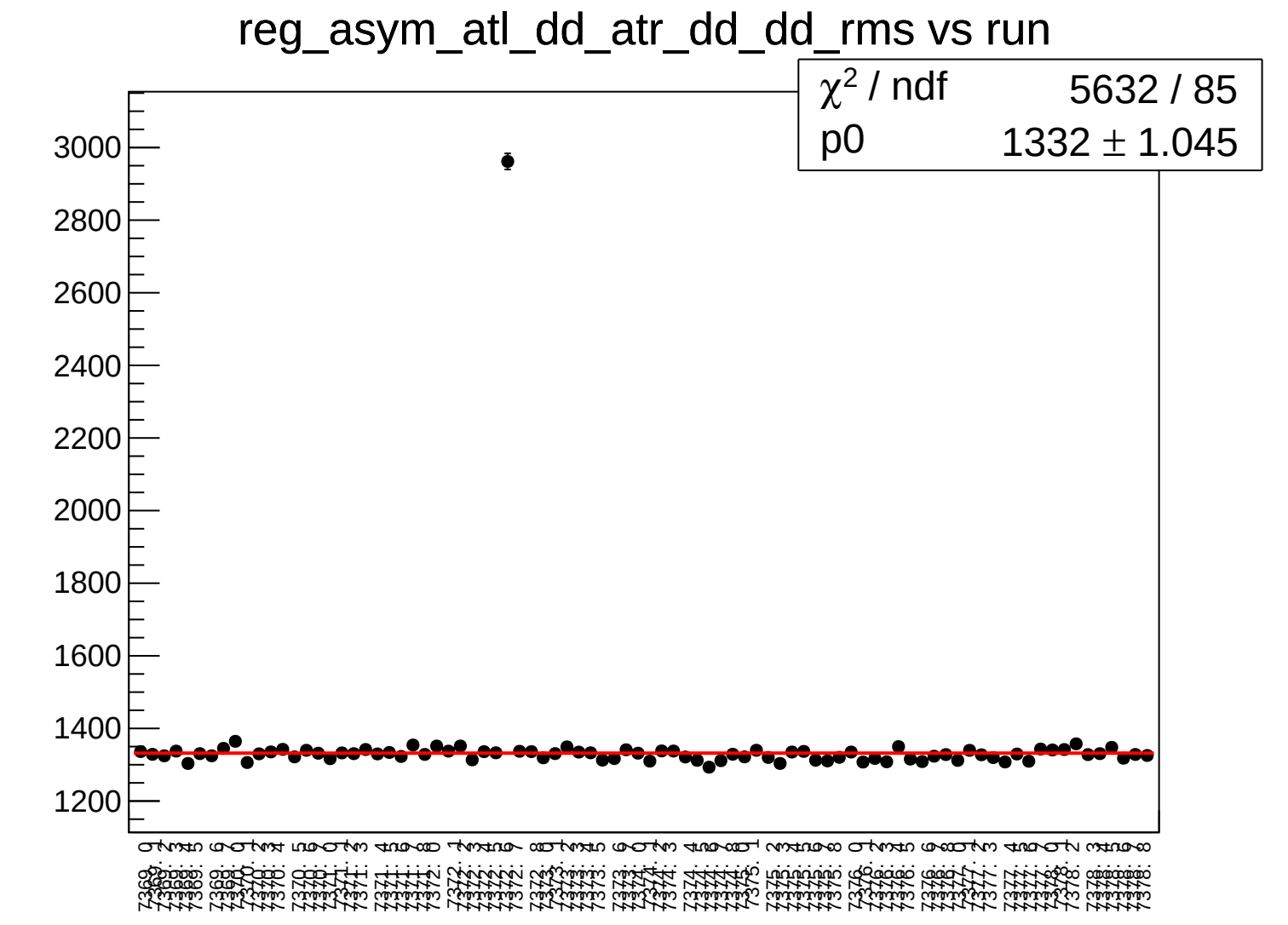

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 90.16 / 85
p0 −6738 ± 4864
pull
Entries 86
Mean −71.73
Std Dev 188.9

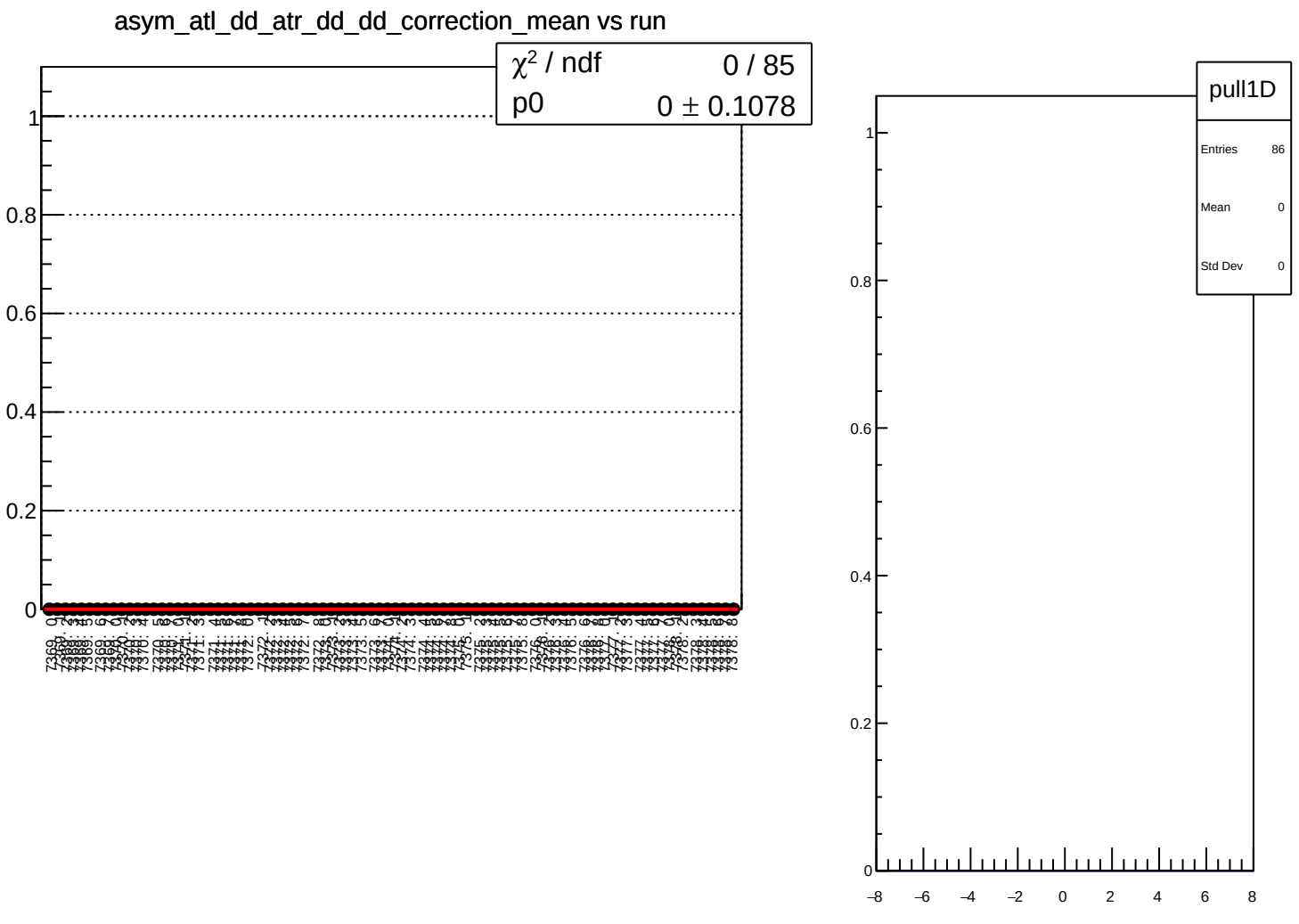

pull1D
Entries 86
Mean 0.004784
Std Dev 1.024

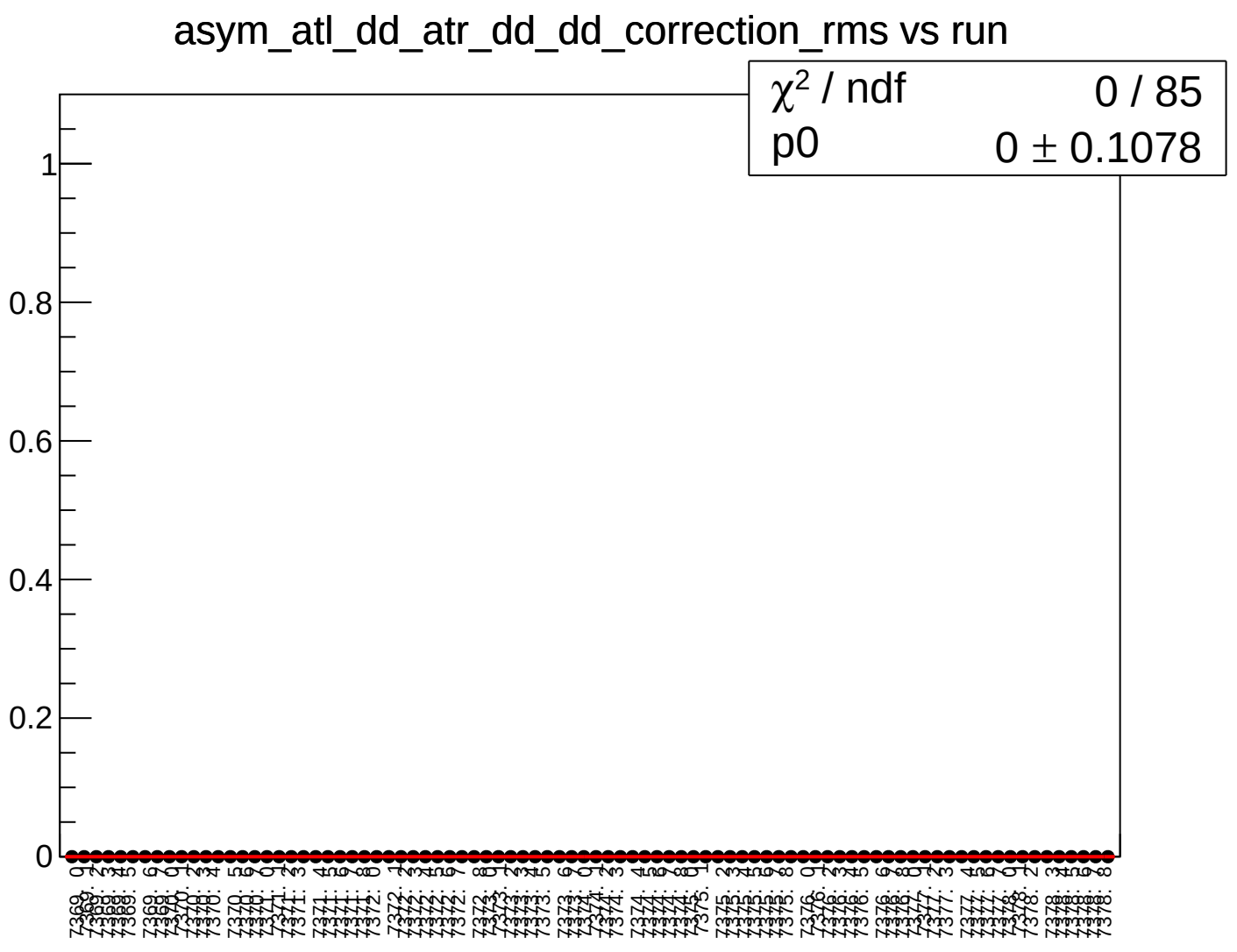

asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 2.828e+04 / 85
p0 4352 ± 3.439
6000
5500
5000
4500
4000
3500

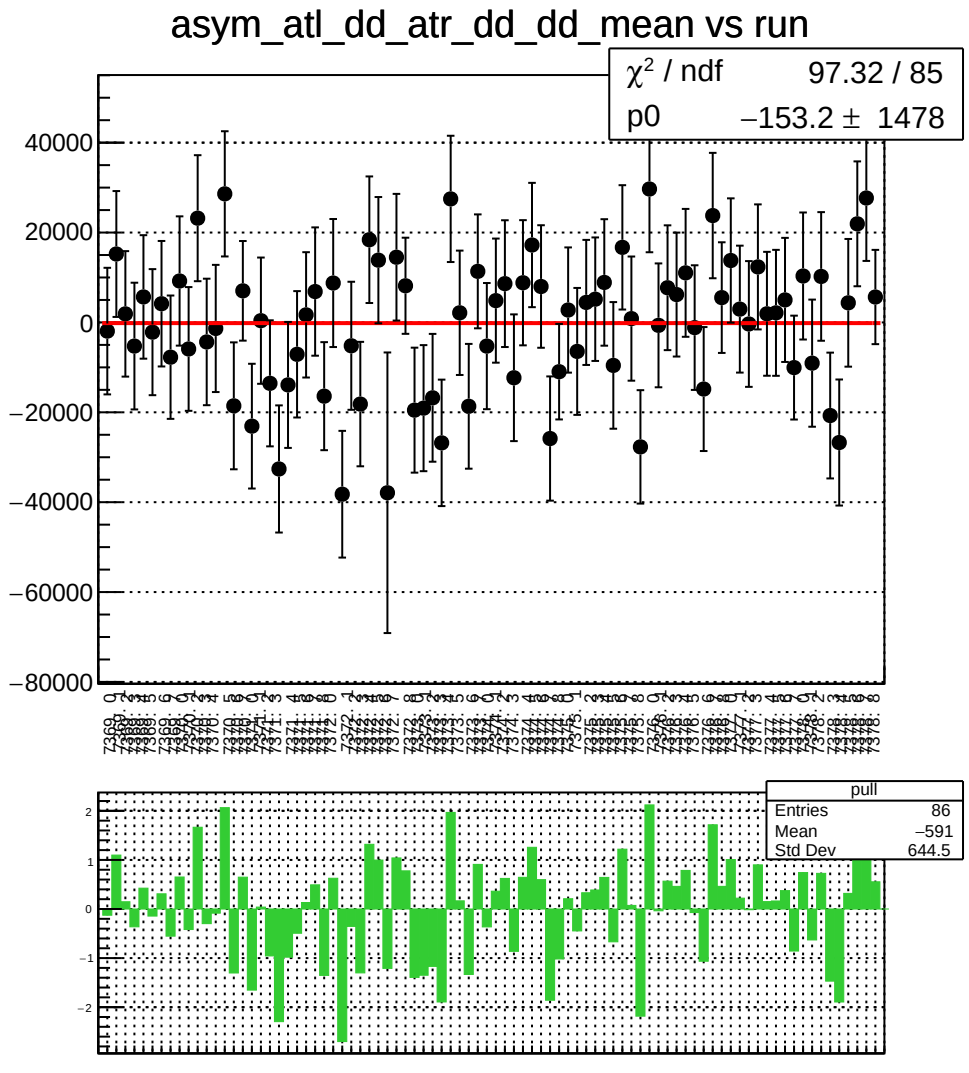

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 97.32 / 85
p0 −153.2 ± 1478
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −591
Std Dev 644.5
2
1
0
−1
−2

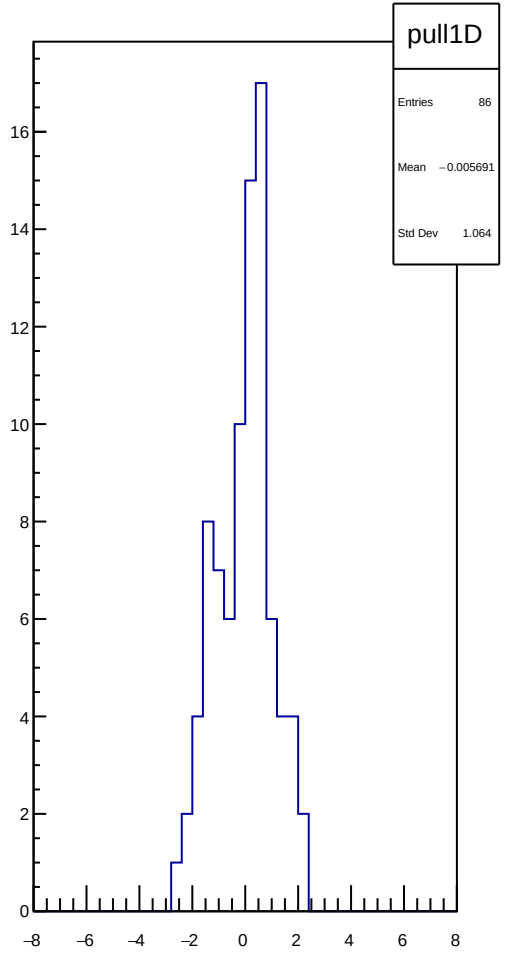

pull1D
Entries 86
Mean −0.005691
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

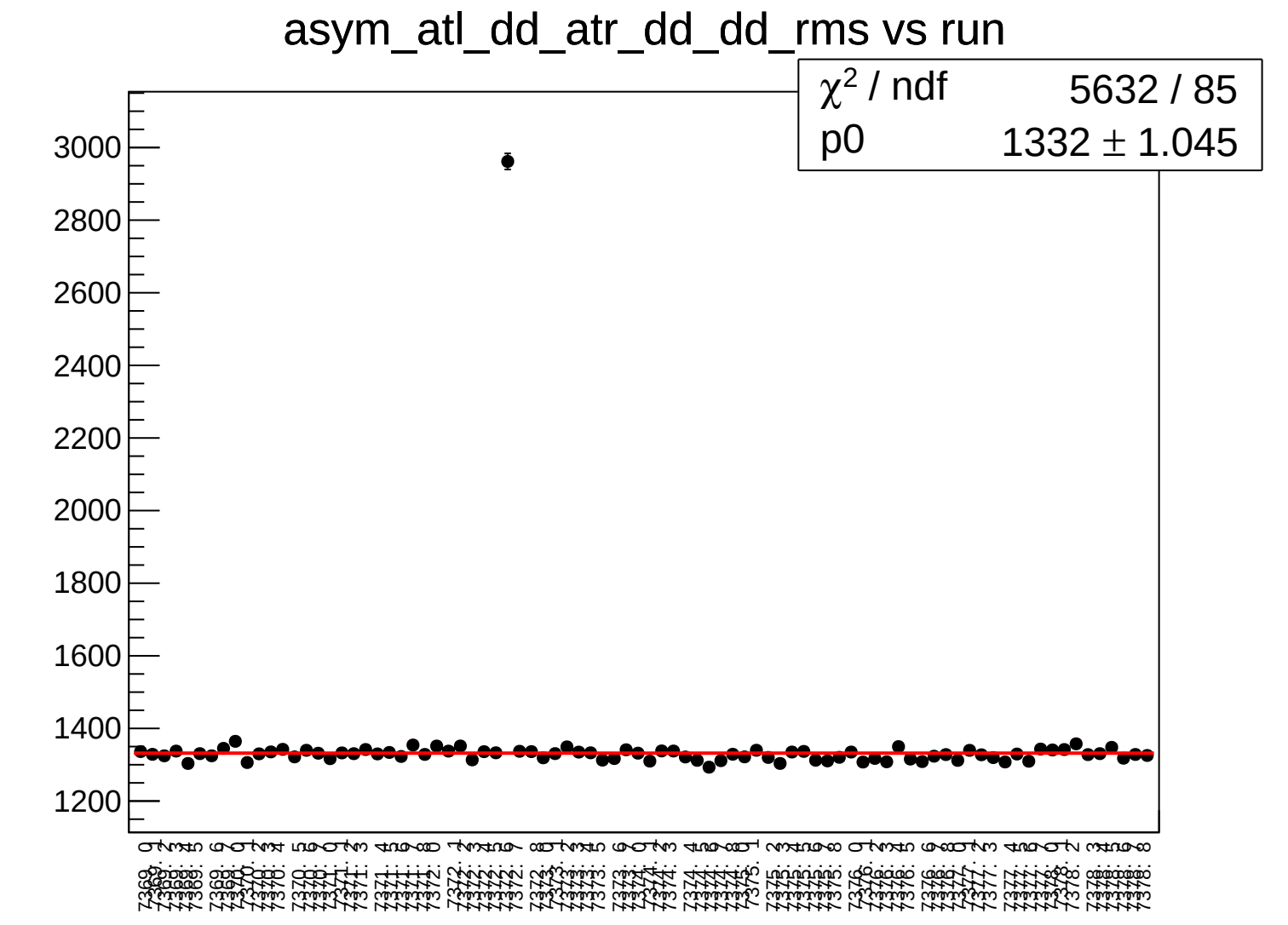

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 5632 / 85
p0 1332 ± 1.045
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

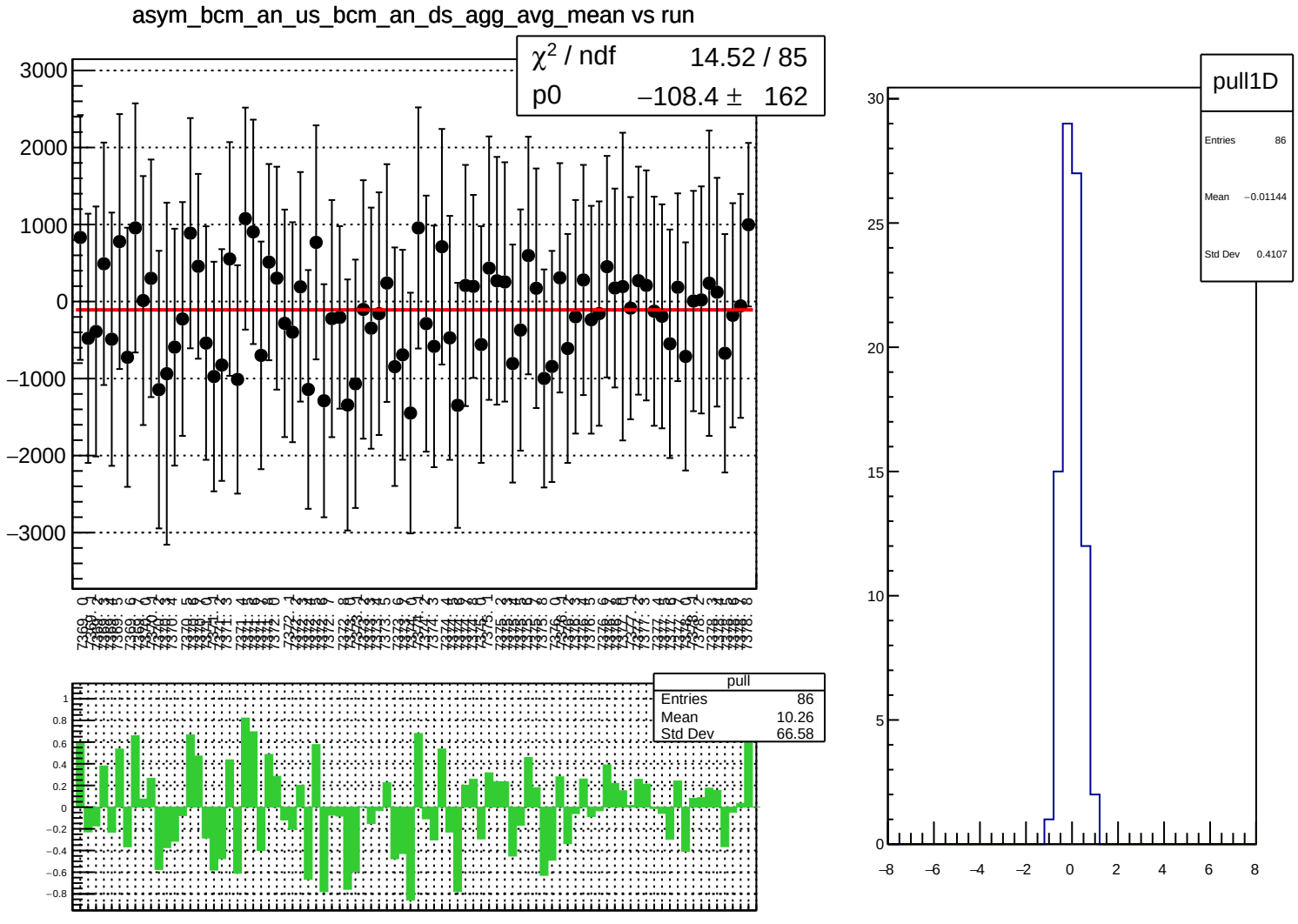

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 85
p0 0 ± 0.1078
pull1D
Entries 86
Mean 0
Std Dev 0

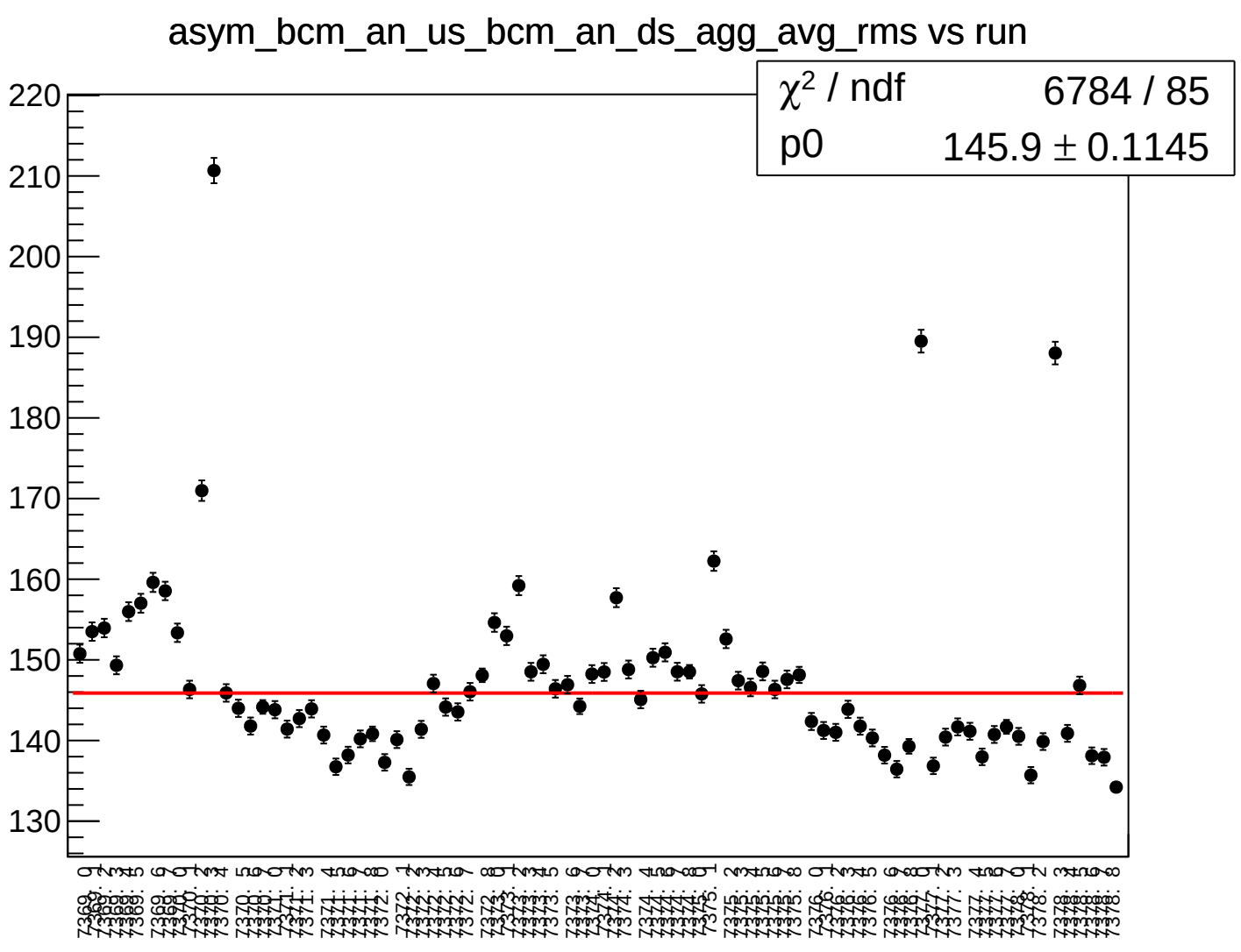

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 85
p0 0 ± 0.1078
1
0.8
0.6
0.4
0.2
0

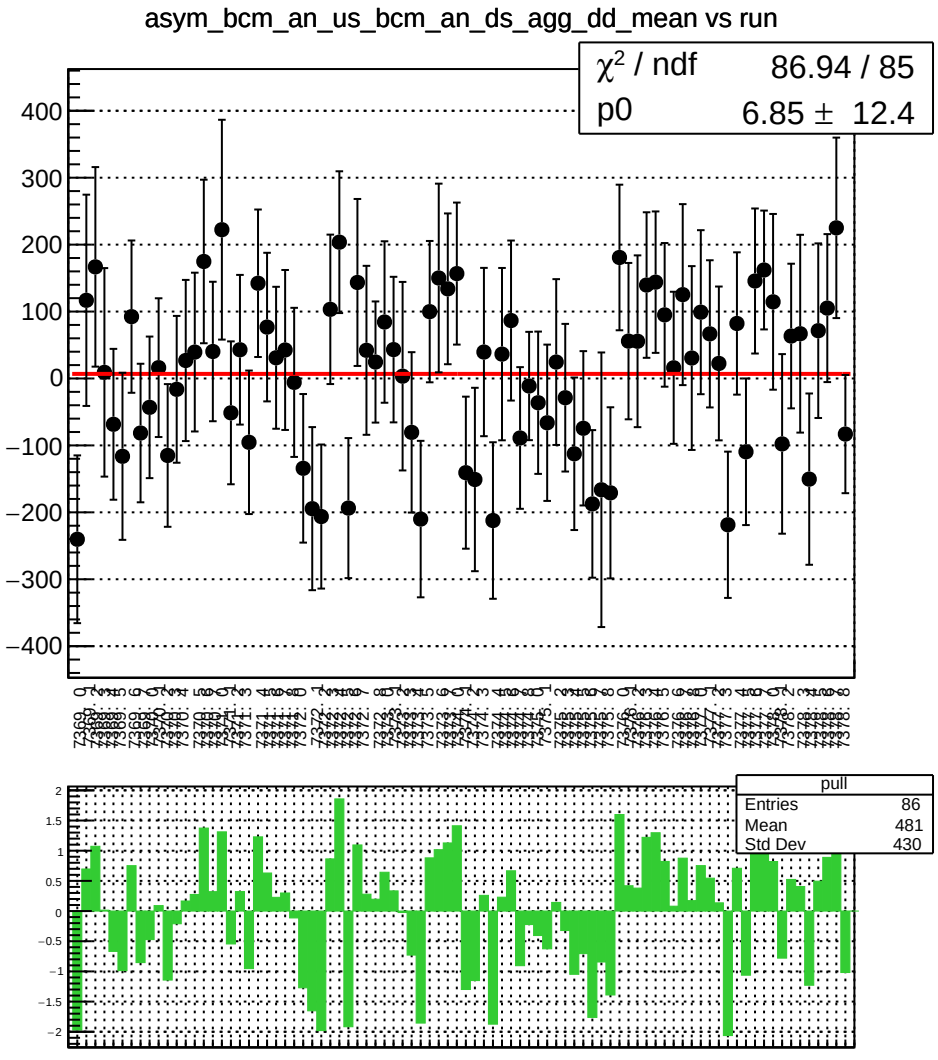

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 97.32 / 85
p0 −153.2 ± 1478
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −591
Std Dev 644.5
2
1
0
−1
−2

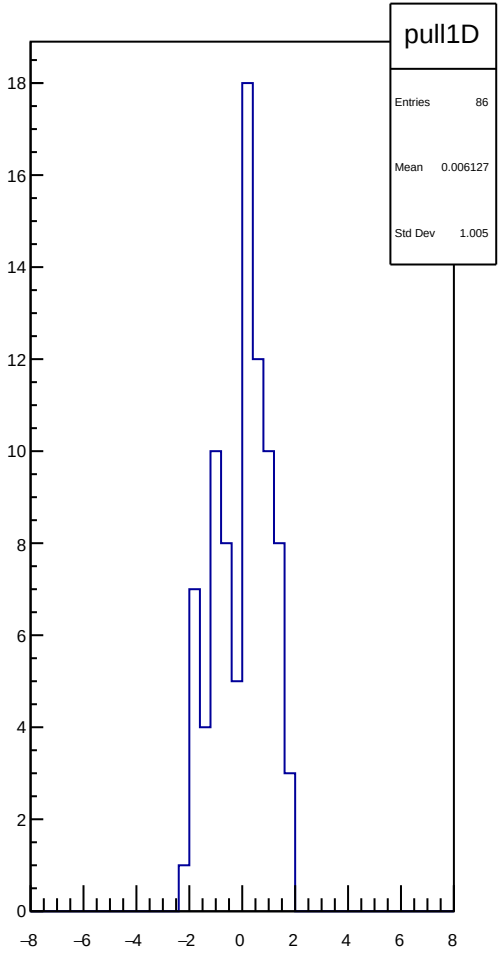

pull1D
Entries 86
Mean −0.005691
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

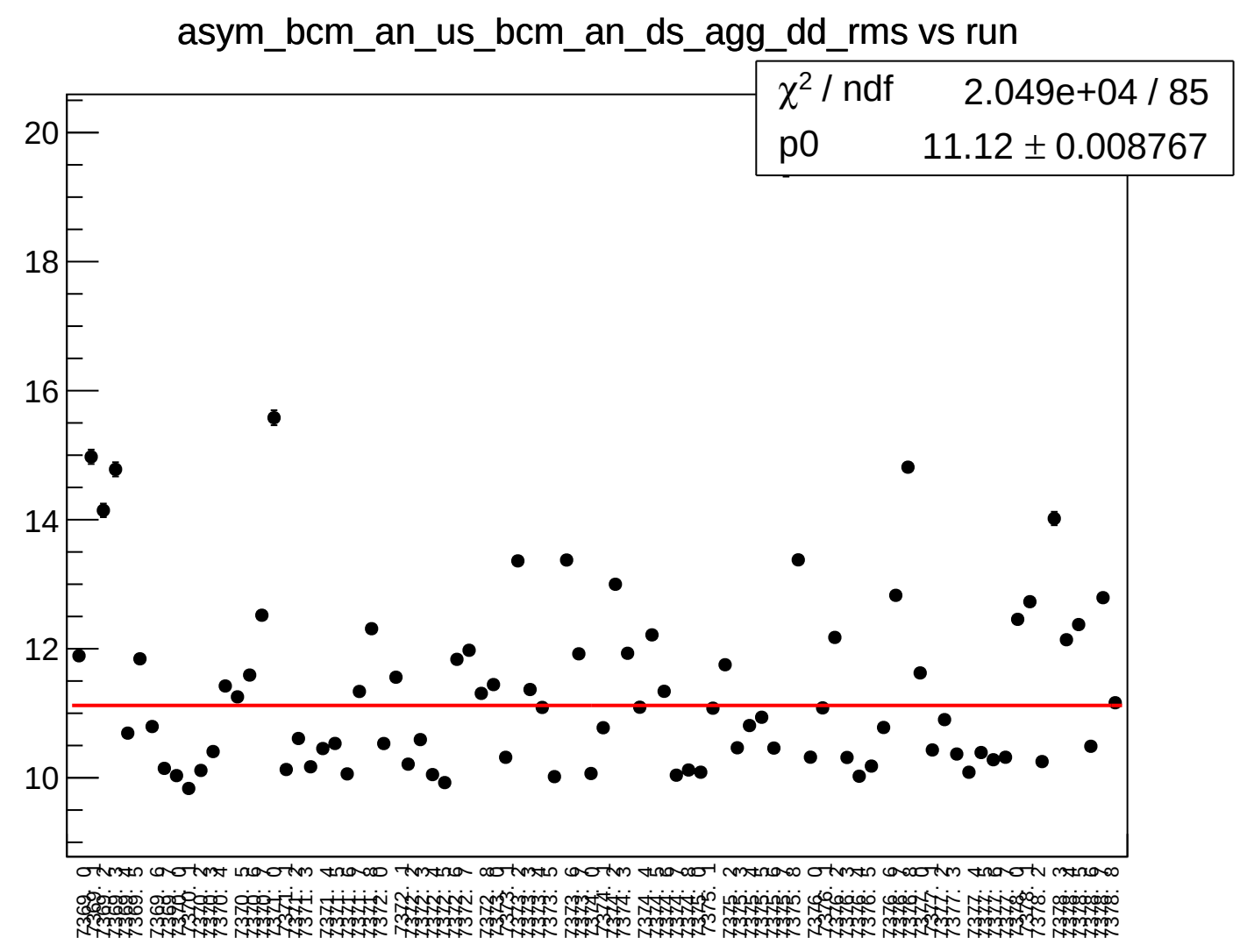

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 5632 / 85
p0 1332 ± 1.045
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

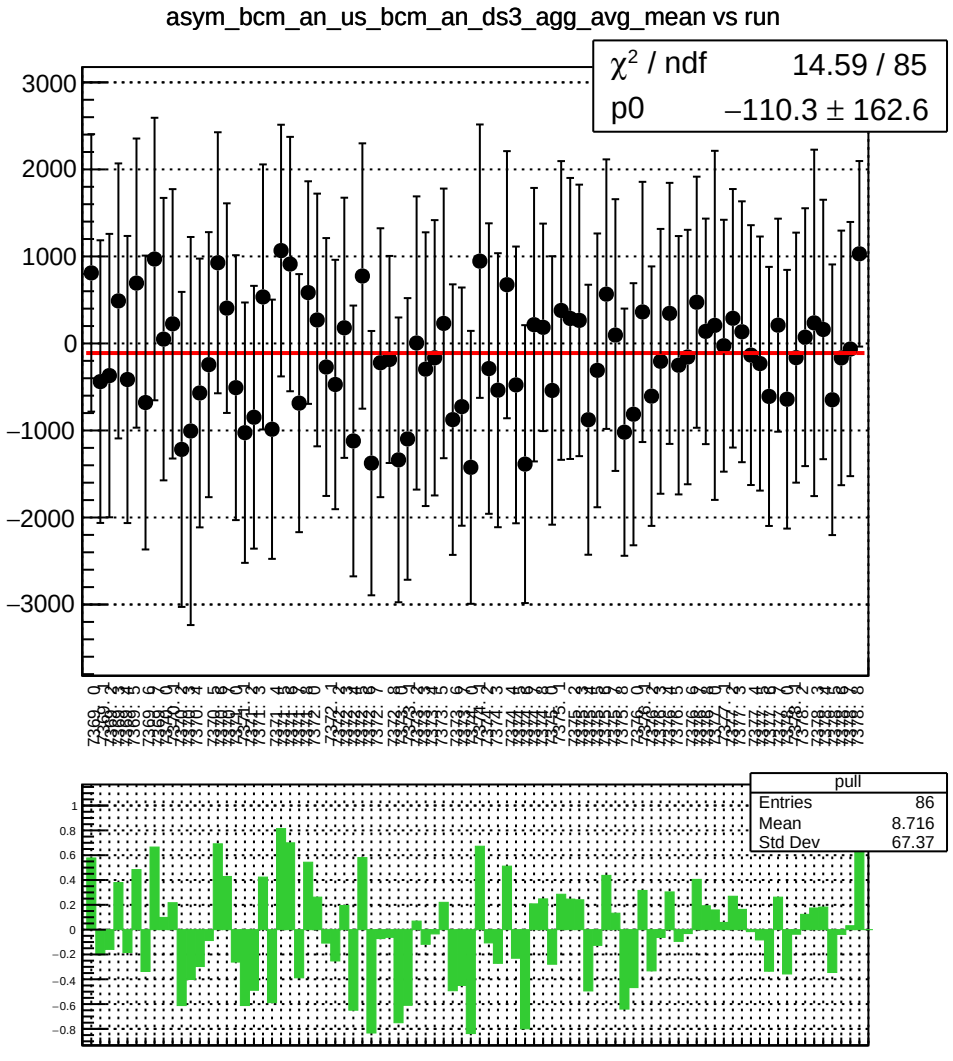

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.52 / 85
p0 −108.4 ± 162
pull
Entries 86
Mean 10.26
Std Dev 66.58
pull1D
Entries 86
Mean −0.01144
Std Dev 0.4107

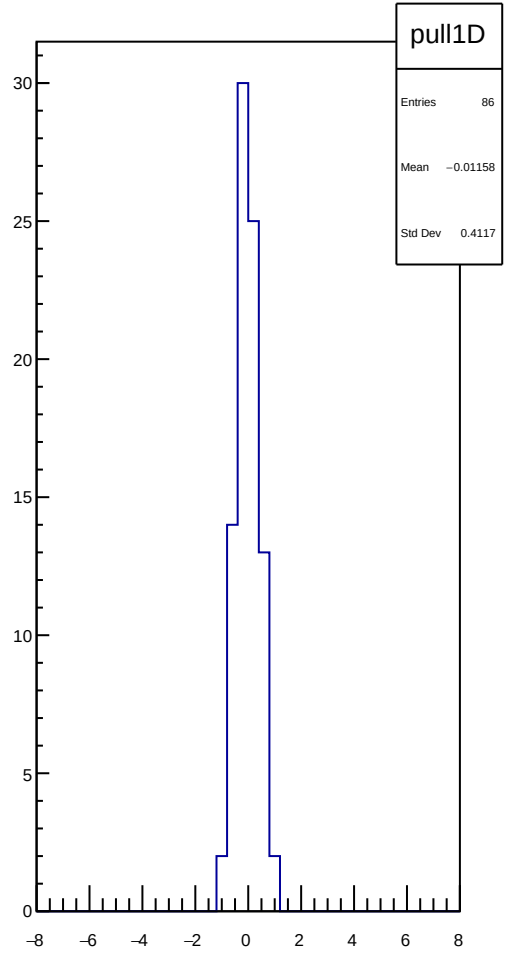

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6784 / 85
p0 145.9 ± 0.1145
220
210
200
190
180
170
160
150
140
130

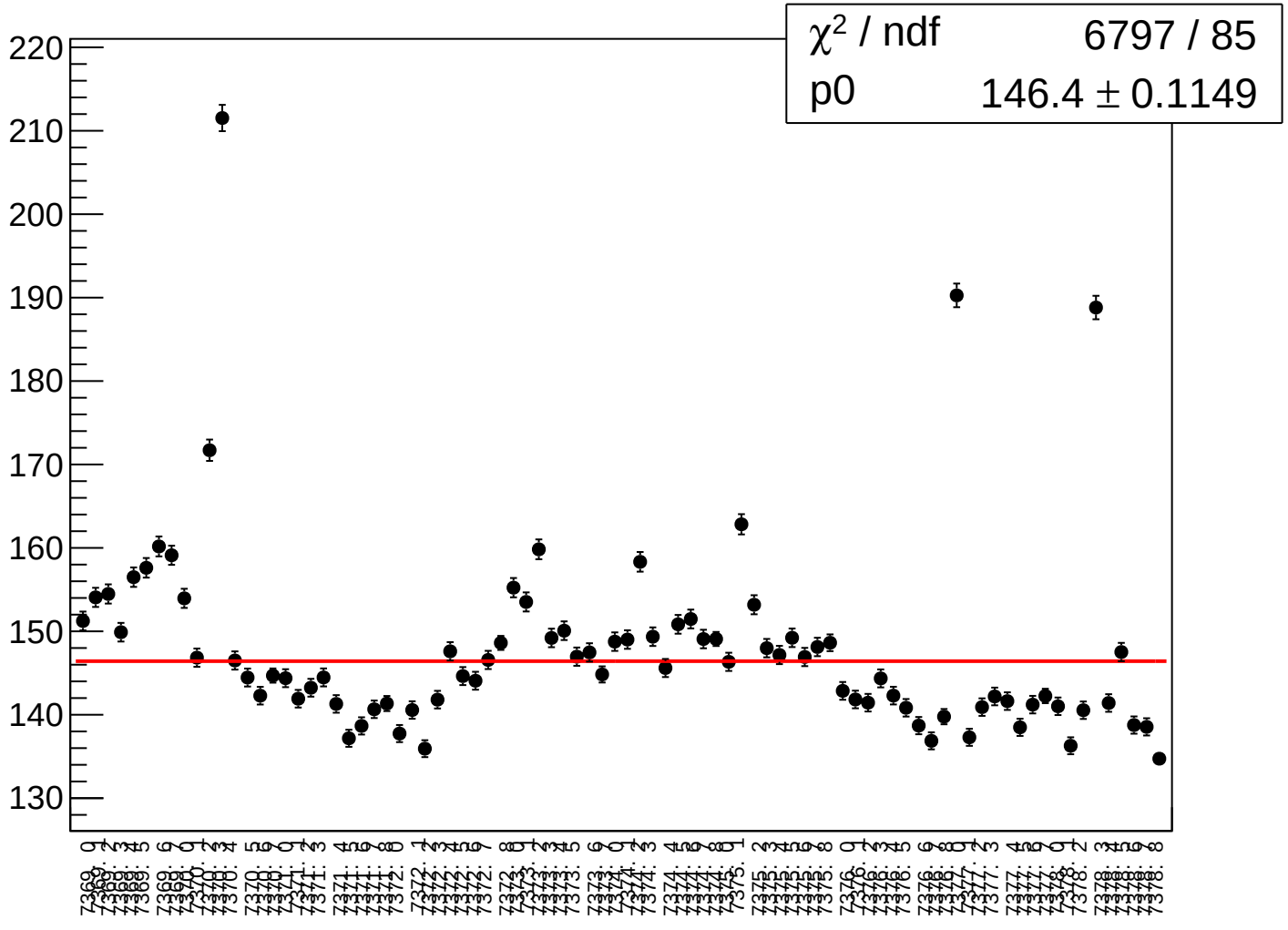

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 86.94 / 85
p0 6.85 ± 12.4
pull
Entries 86
Mean 481
Std Dev 430

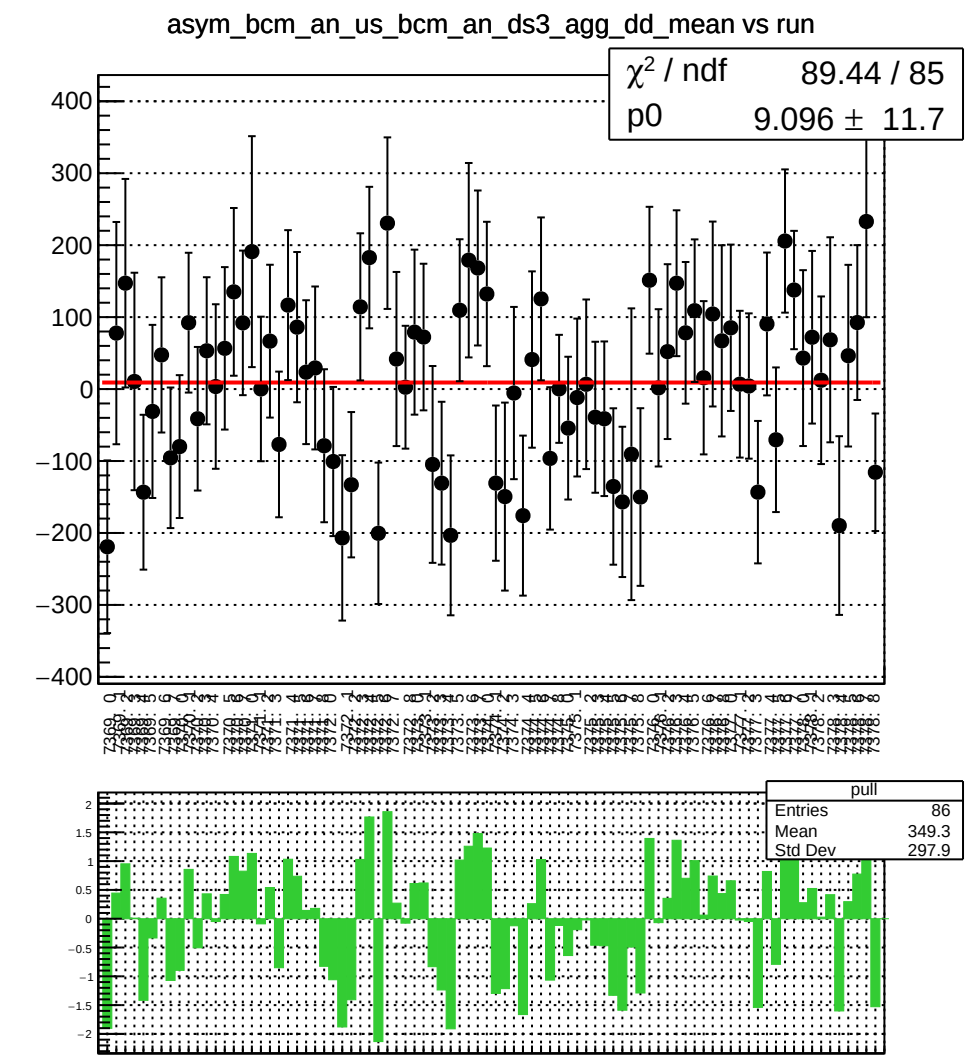

pull1D
Entries 86
Mean 0.006127
Std Dev 1.005

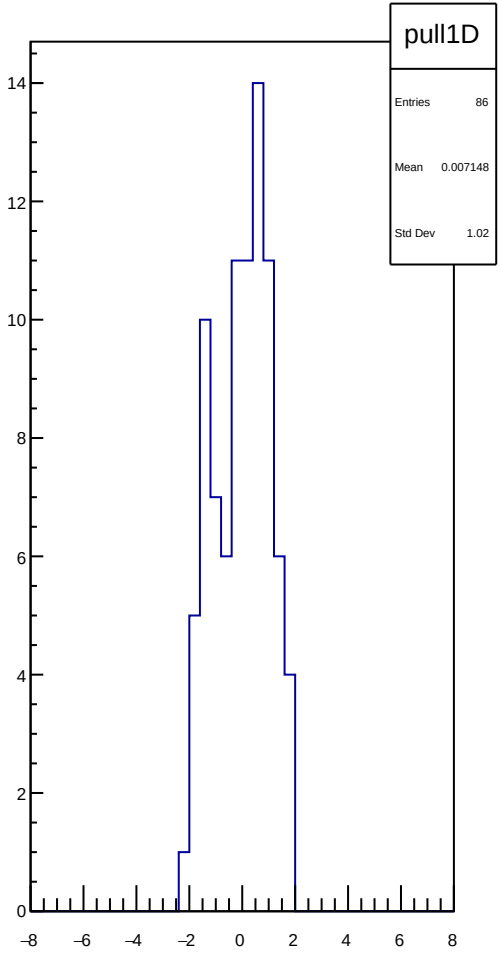

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.049e+04 / 85
p0 11.12 ± 0.008767
20
18
16
14
12
10

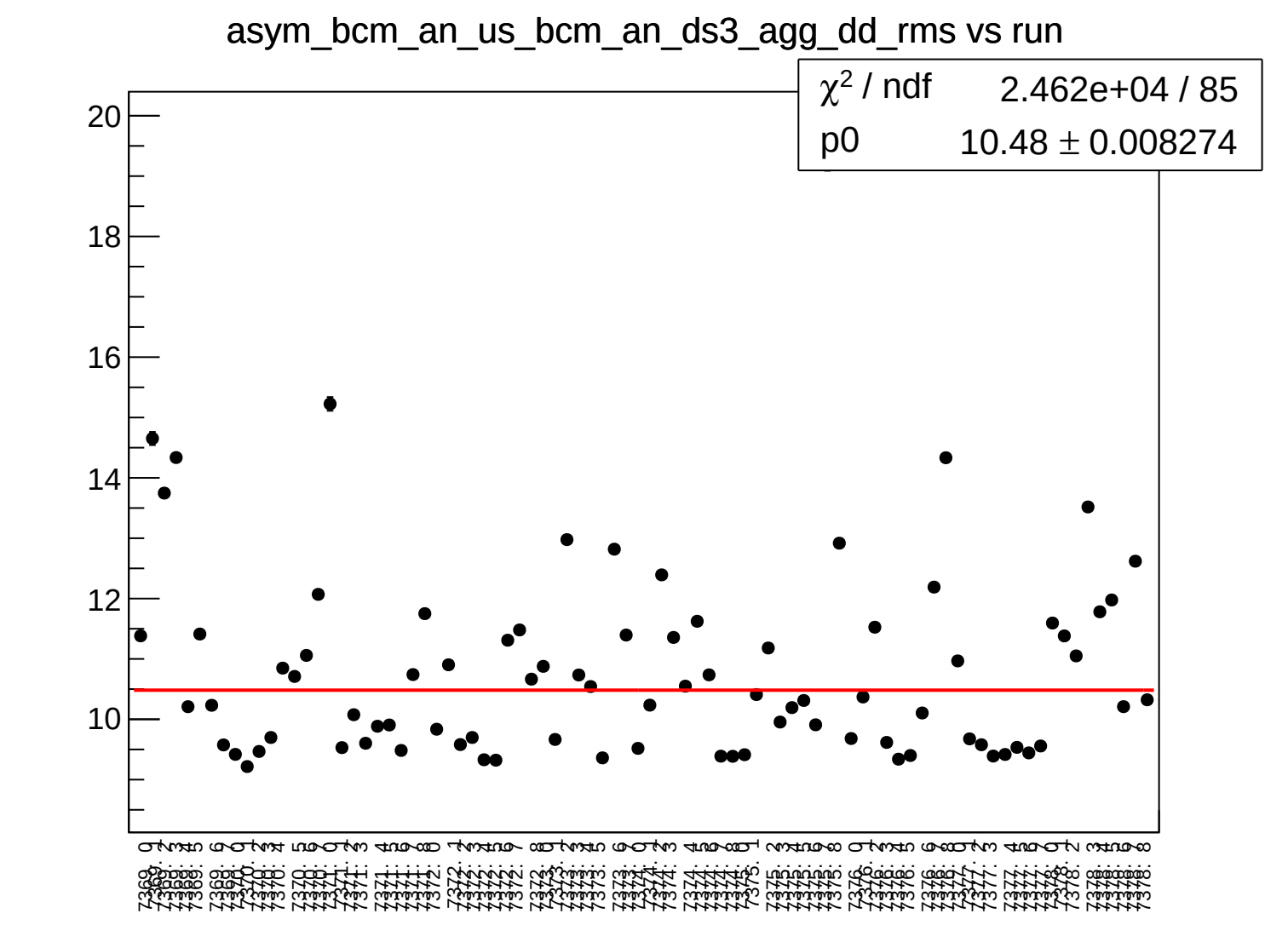

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 14.59 / 85
p0 −110.3 ± 162.6
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean 8.716
Std Dev 67.37
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

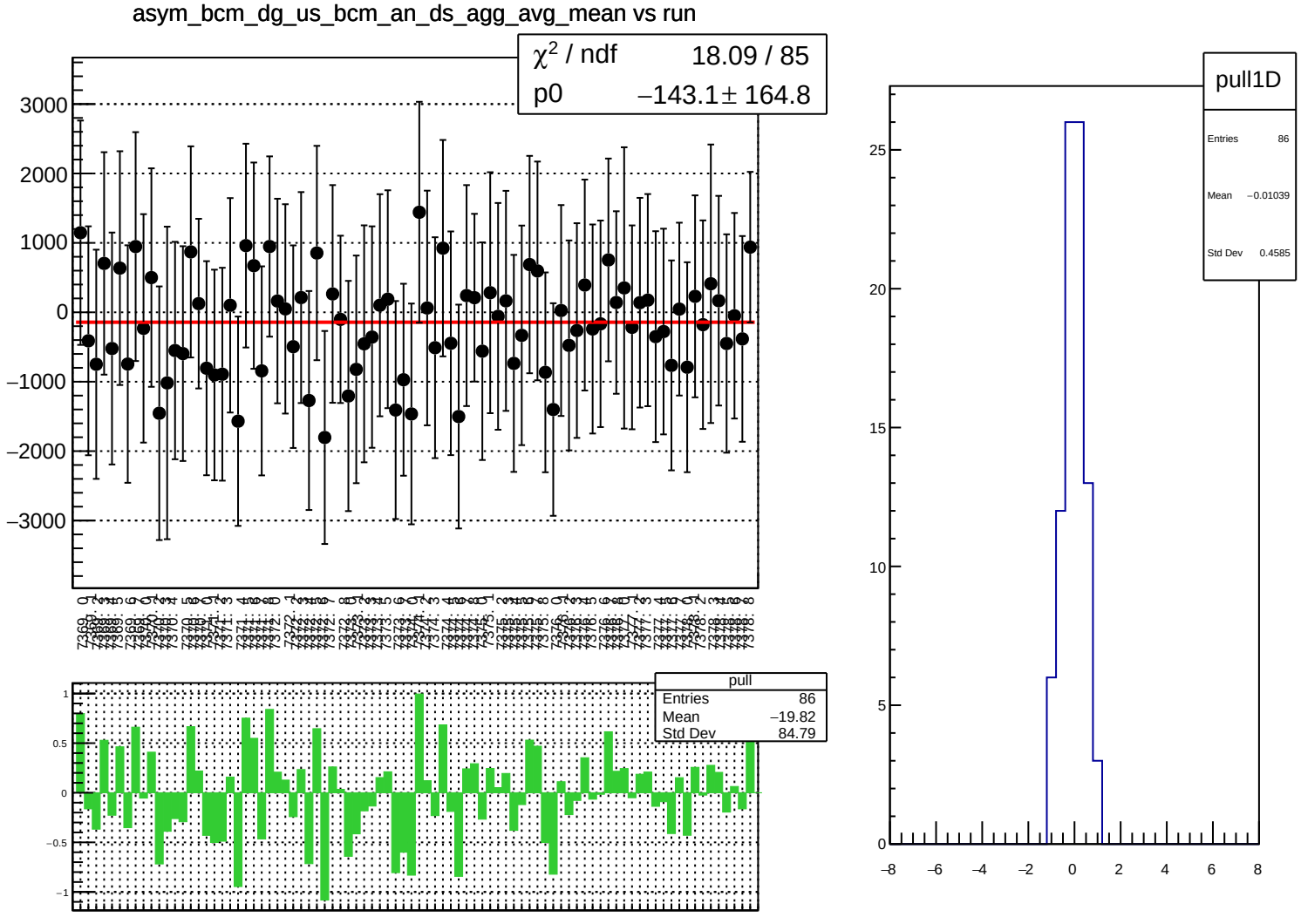

pull1D
Entries 86
Mean −0.01158
Std Dev 0.4117
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

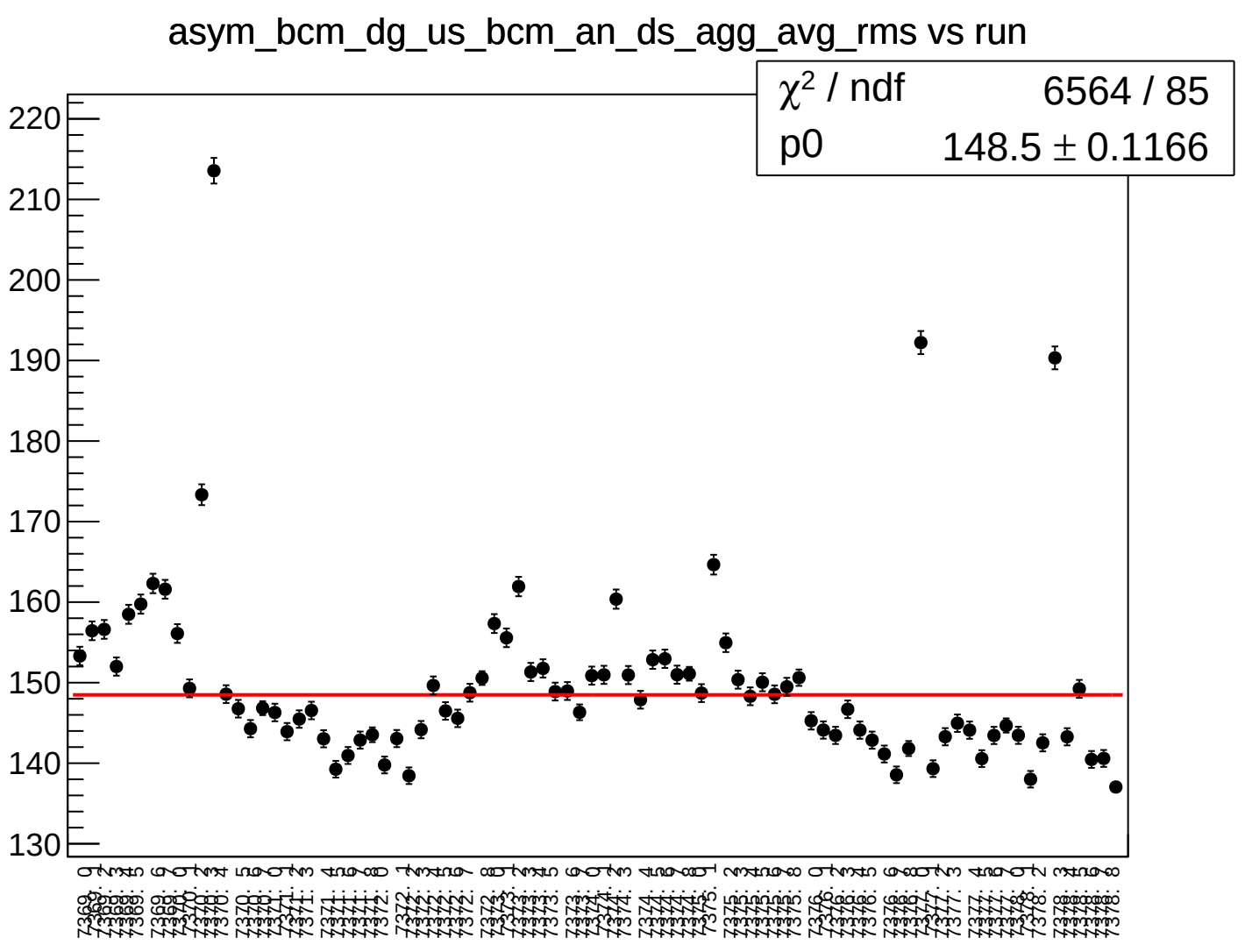

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 6797 / 85
p0 146.4 ± 0.1149
220
210
200
190
180
170
160
150
140
130

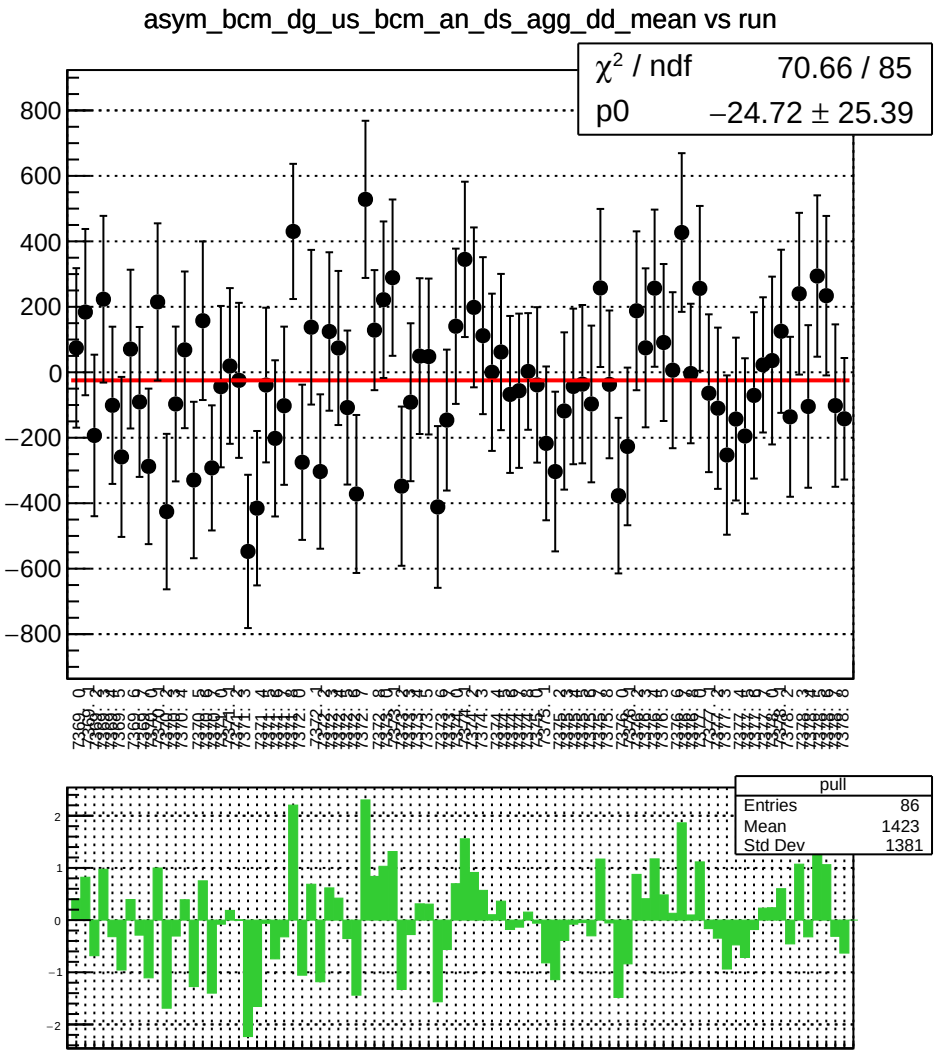

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 89.44 / 85
p0 9.096 ± 11.7
pull
Entries 86
Mean 349.3
Std Dev 297.9

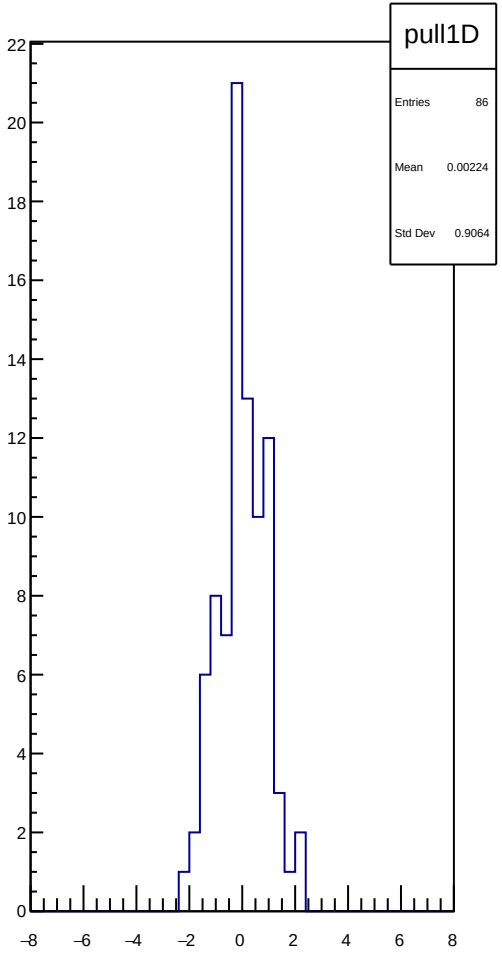

pull1D
Entries 86
Mean 0.007148
Std Dev 1.02

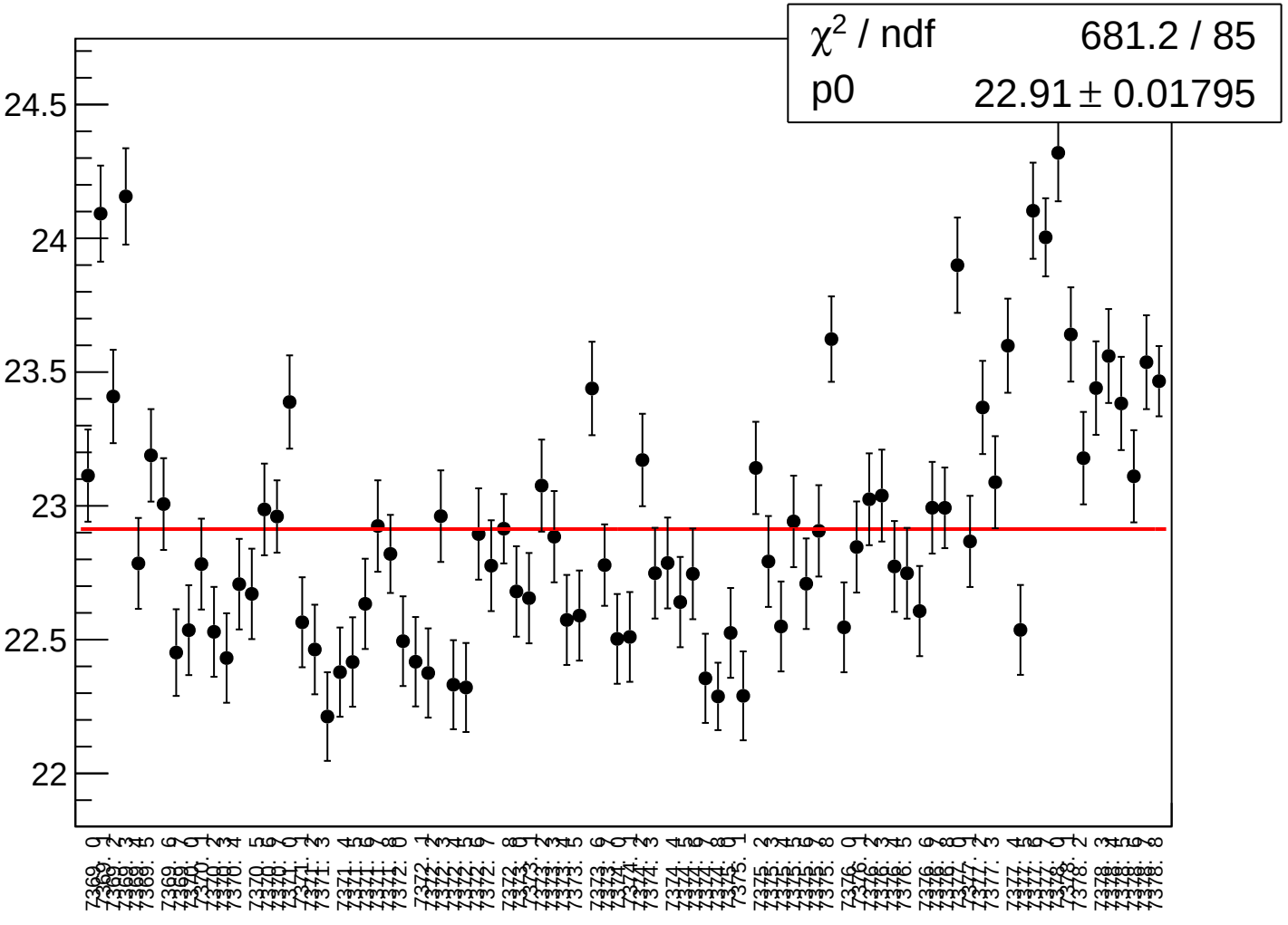

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.462e+04 / 85
p0 10.48 ± 0.008274
20
18
16
14
12
10

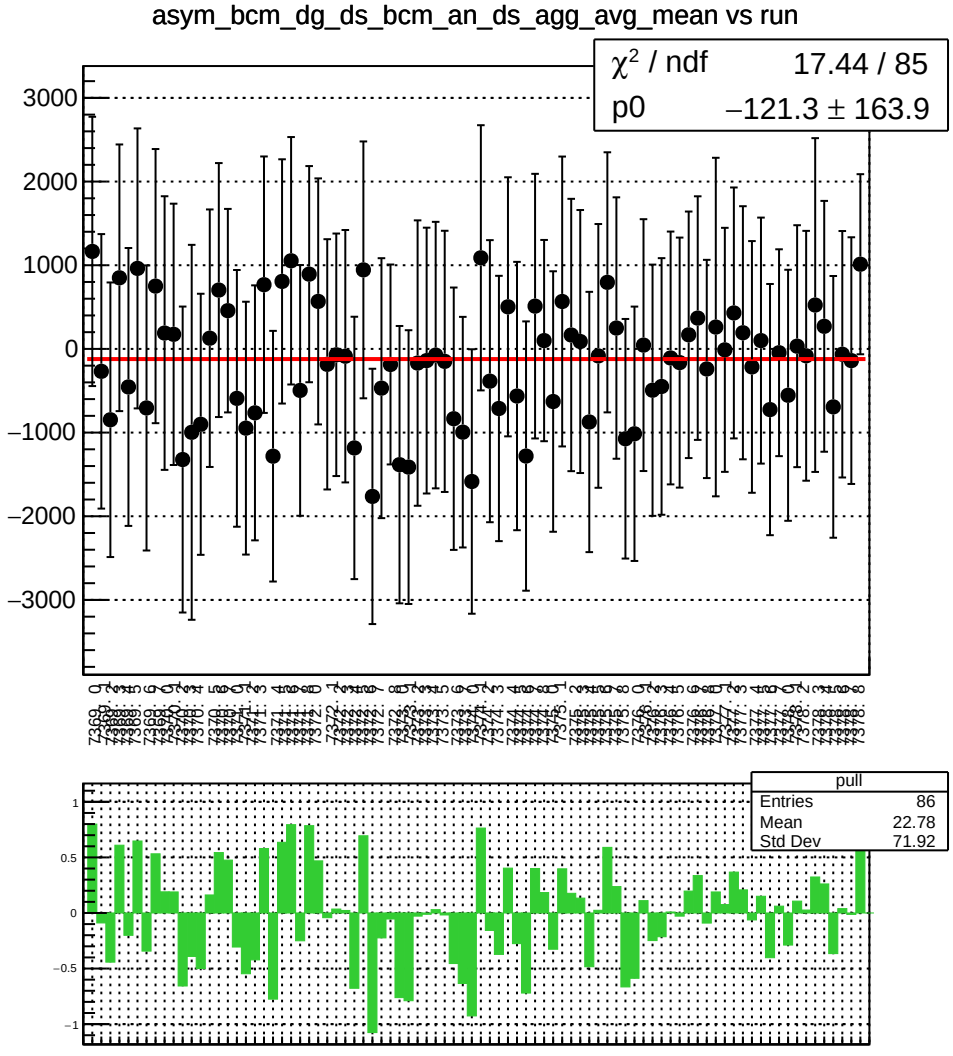

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.09 / 85
p0 −143.1± 164.8
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −19.82
Std Dev 84.79
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean −0.01039
Std Dev 0.4585
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

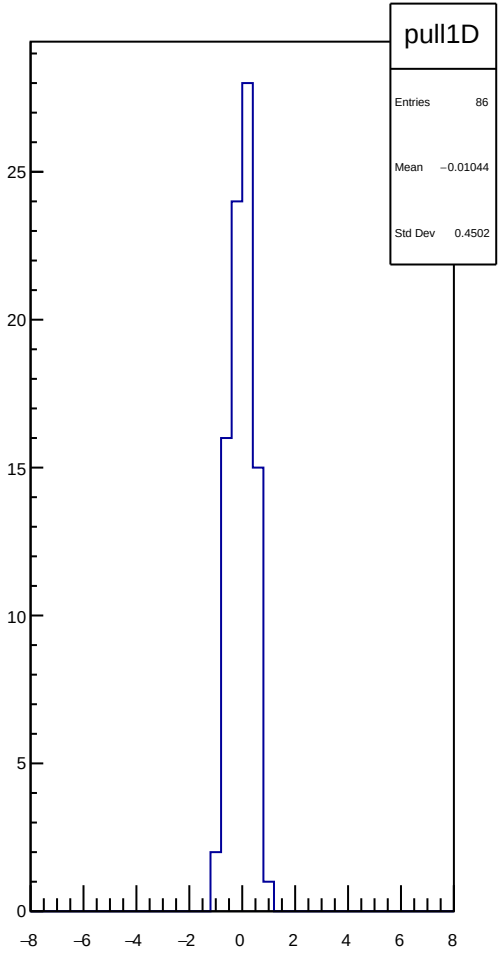

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6564 / 85
p0 148.5 ± 0.1166
220
210
200
190
180
170
160
150
140
130

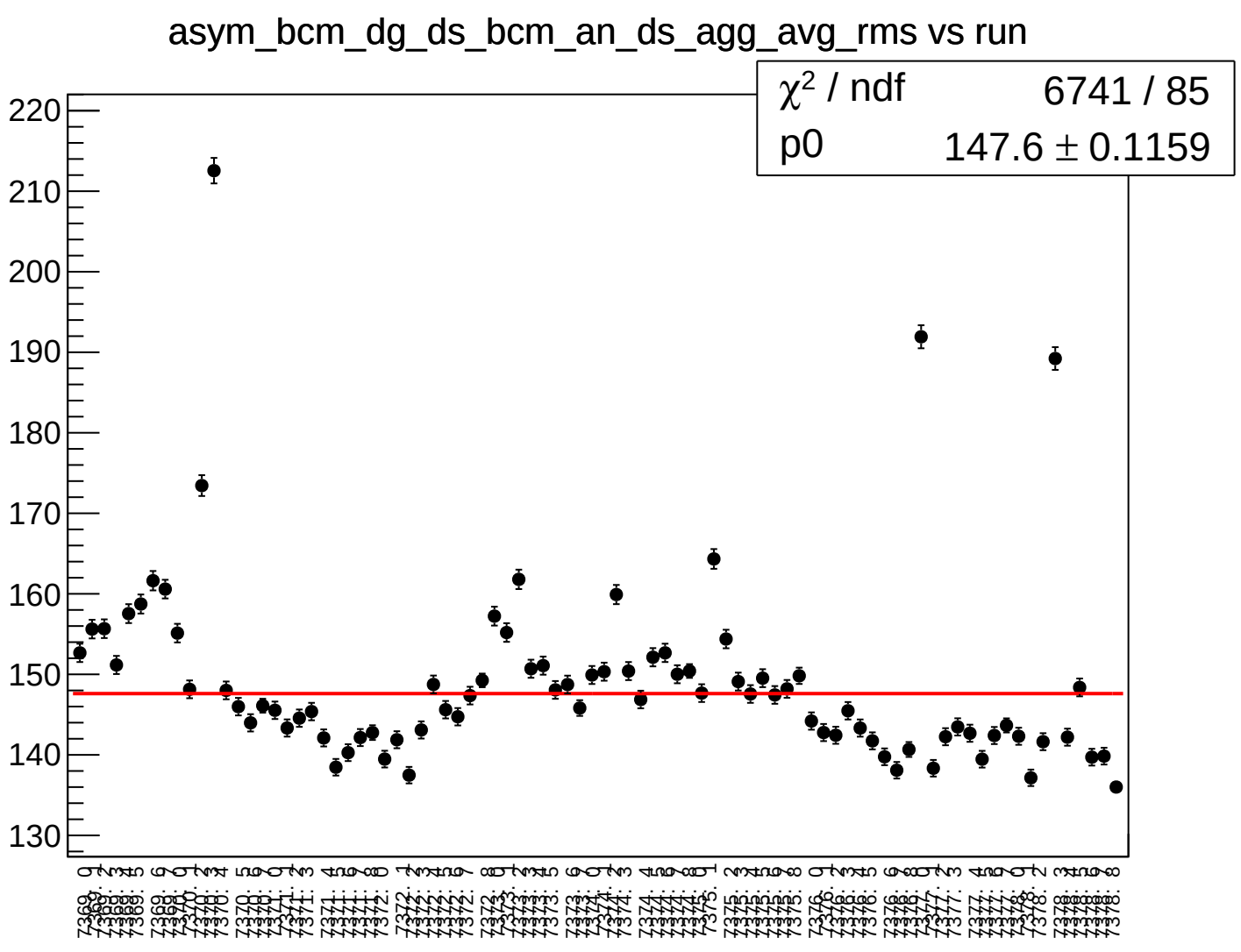

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 70.66 / 85
p0 −24.72 ± 25.39
pull
Entries 86
Mean 1423
Std Dev 1381

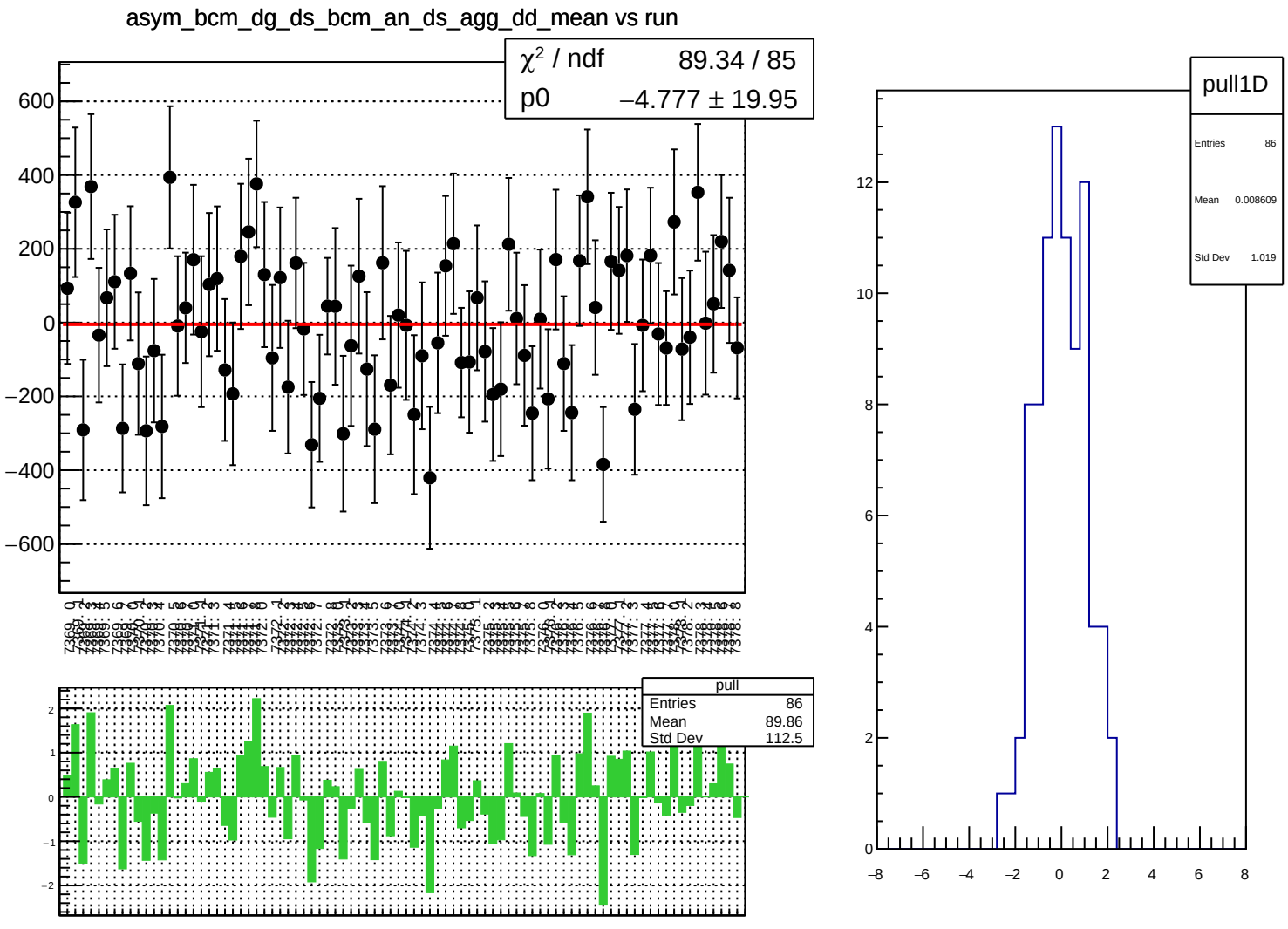

pull1D
Entries 86
Mean 0.00224
Std Dev 0.9064

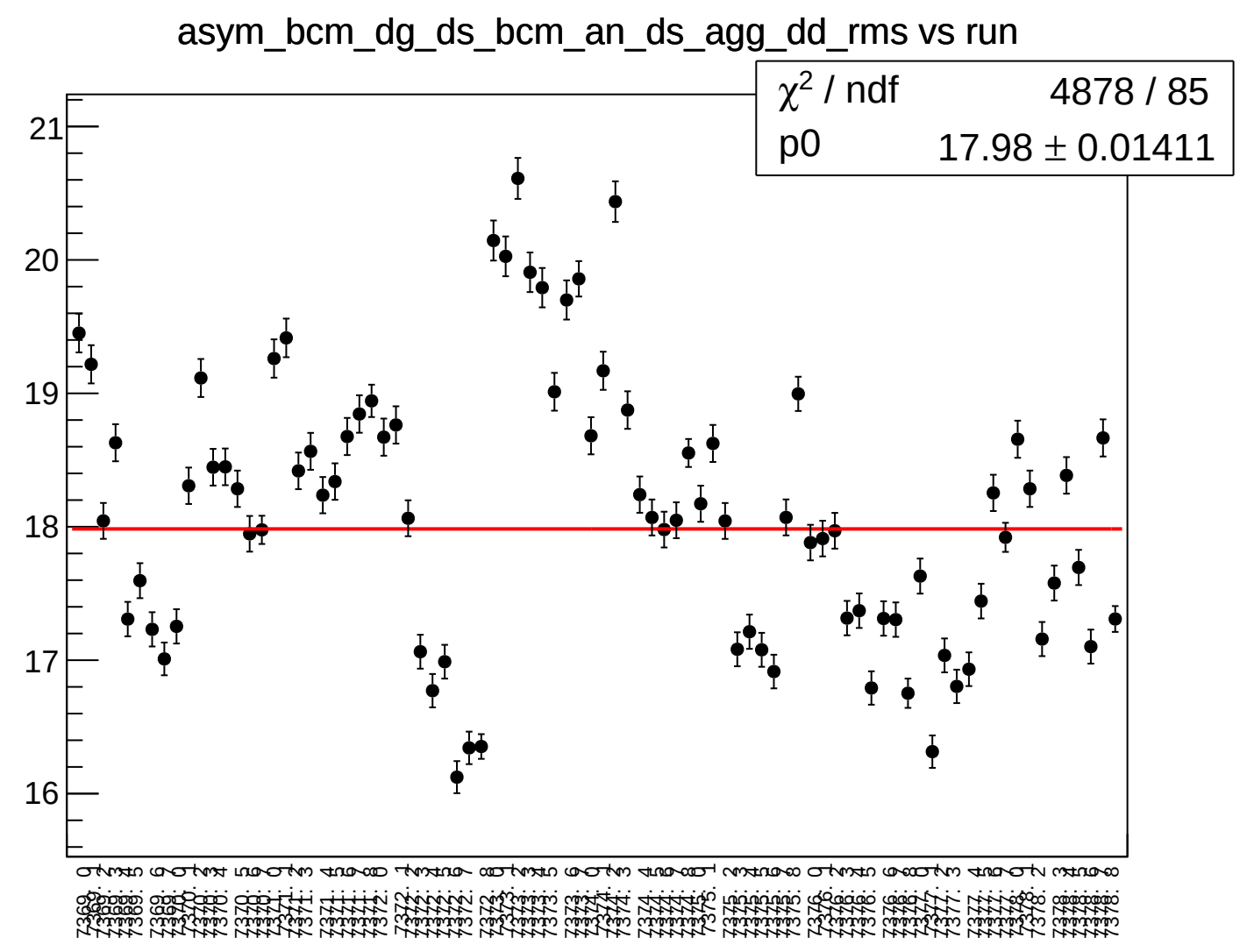

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 681.2 / 85
p0 22.91 ± 0.01795
24.5
24
23.5
23
22.5
22

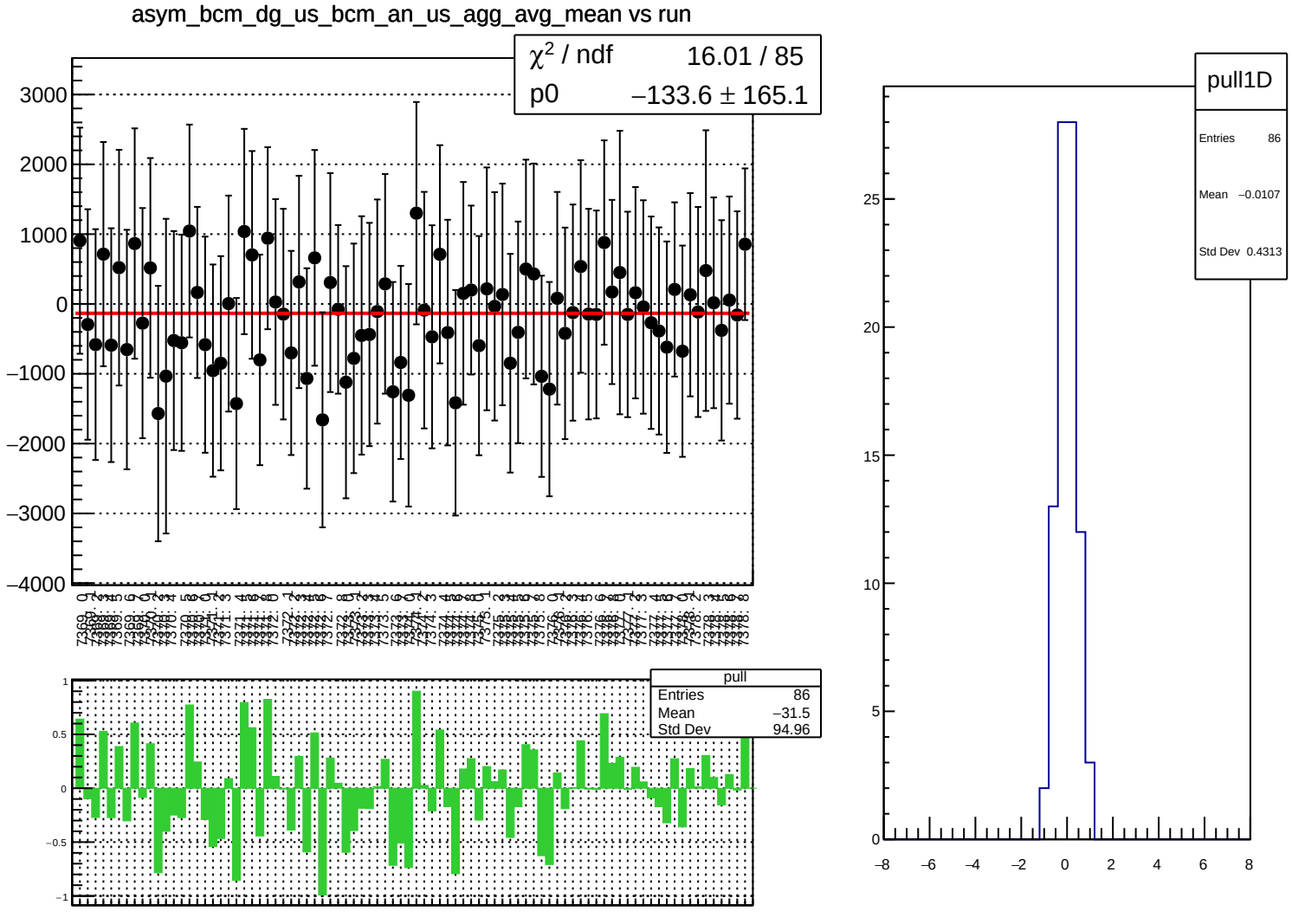

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.44 / 85
p0 −121.3 ± 163.9
pull
Entries 86
Mean 22.78
Std Dev 71.92

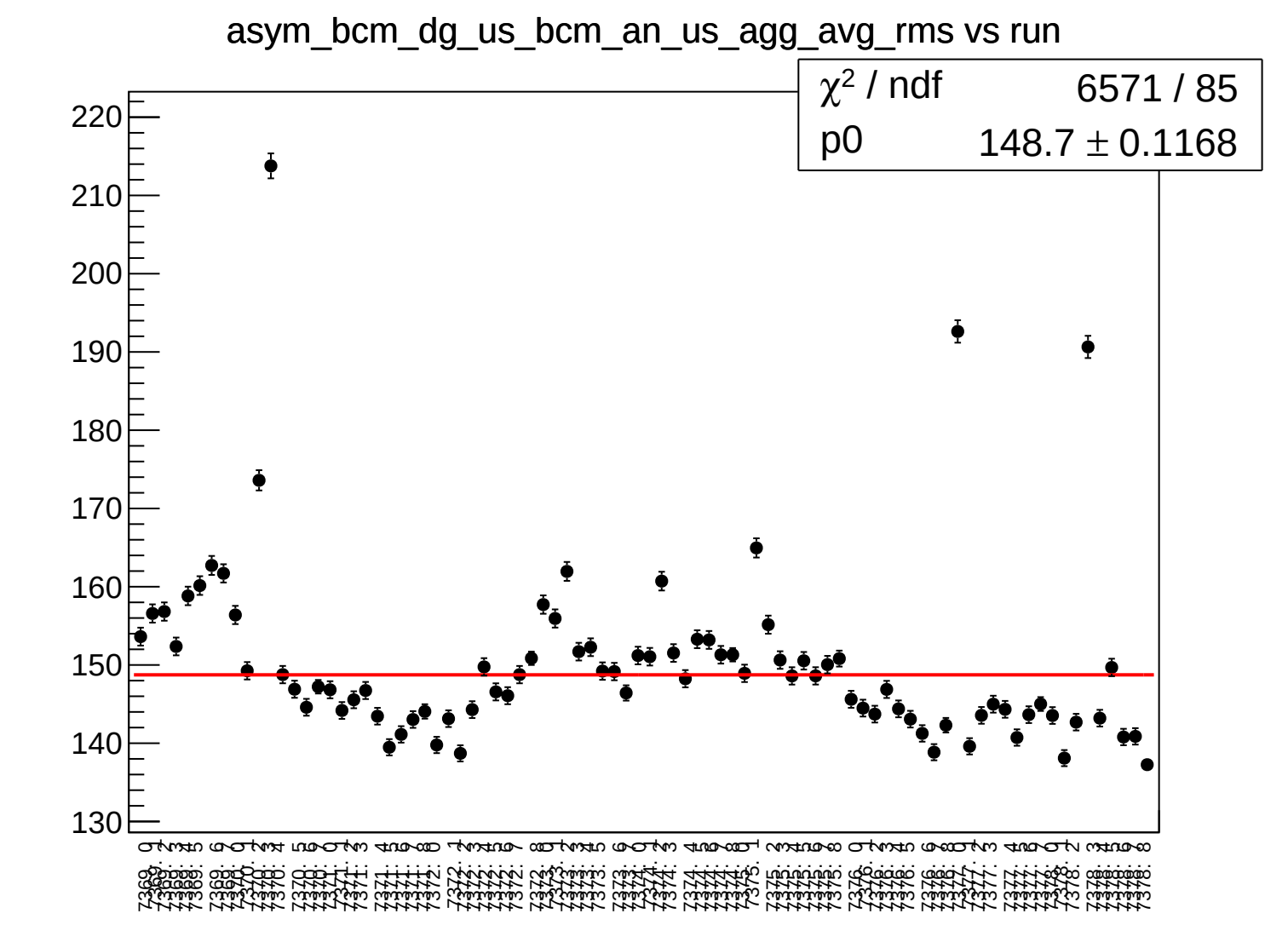

pull1D
Entries 86
Mean −0.01044
Std Dev 0.4502

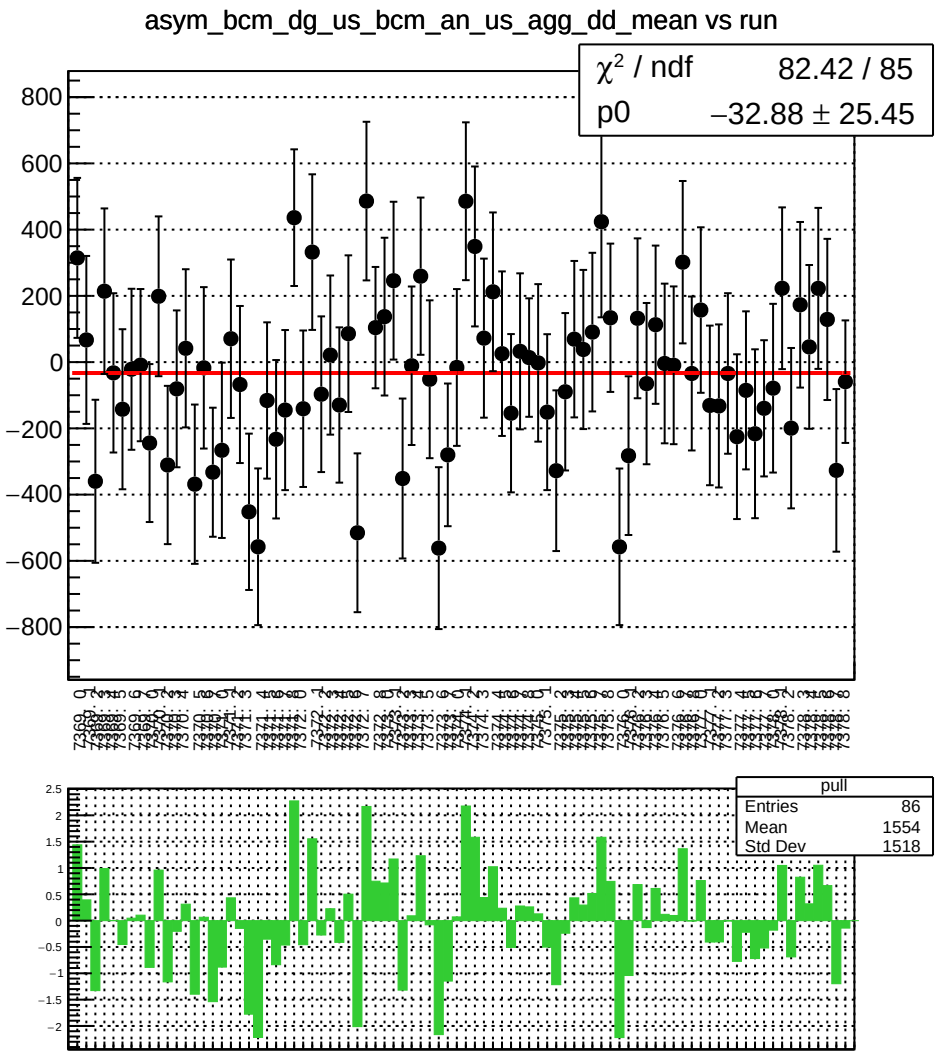

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6741 / 85
p0 147.6 ± 0.1159
220
210
200
190
180
170
160
150
140
130

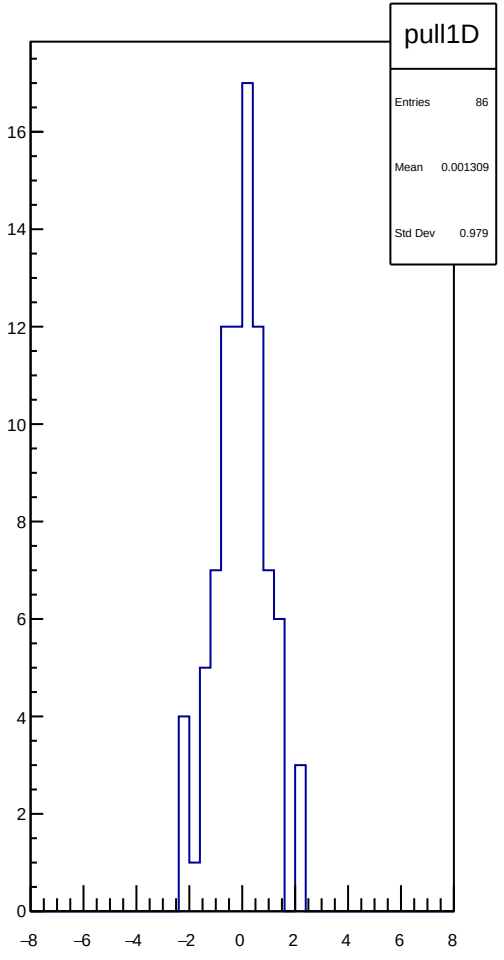

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 89.34 / 85
p0 −4.777 ± 19.95
pull
Entries 86
Mean 89.86
Std Dev 112.5
pull1D
Entries 86
Mean 0.008609
Std Dev 1.019

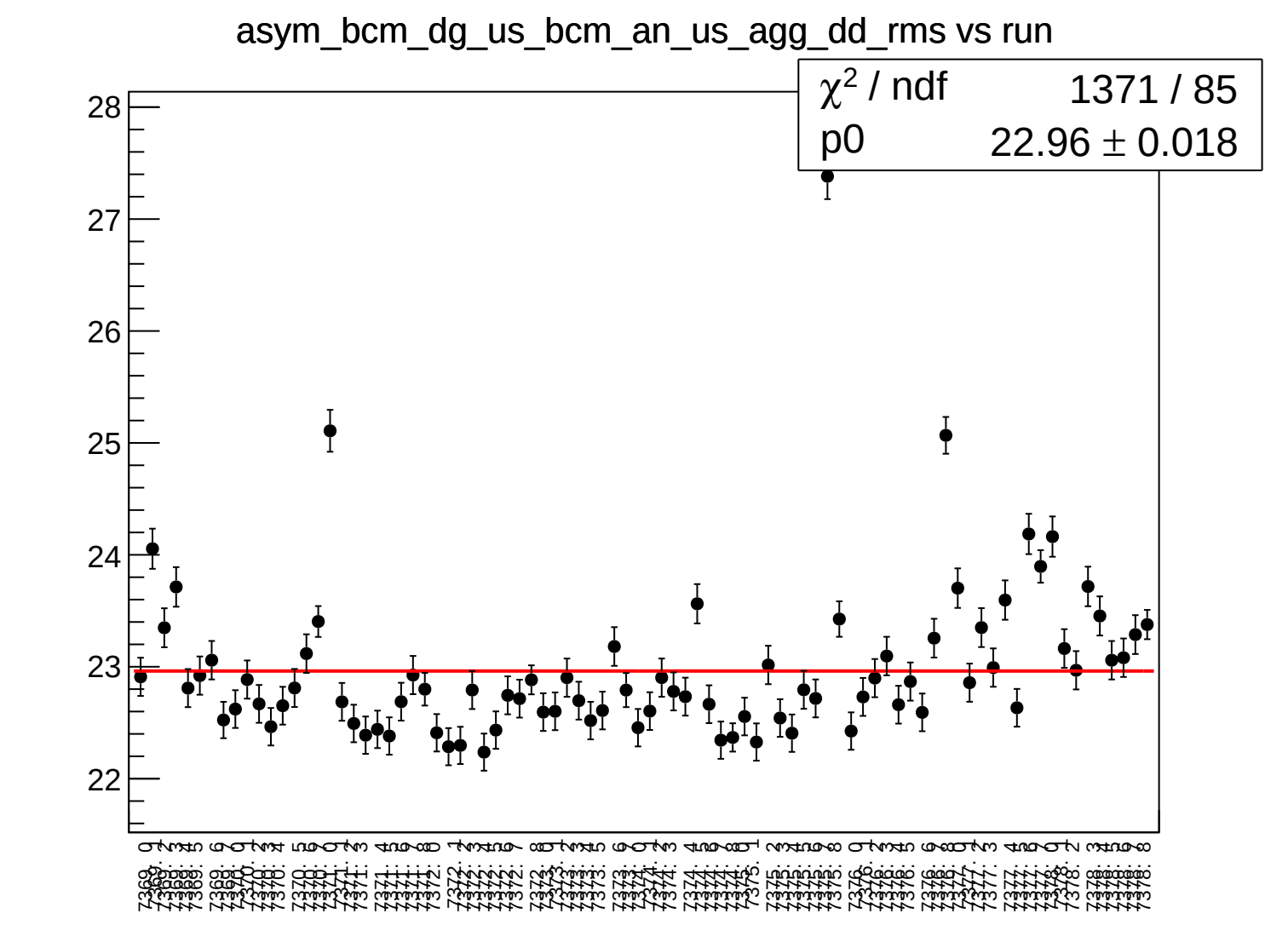

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4878 / 85
p0 17.98 ± 0.01411
21
20
19
18
17
16

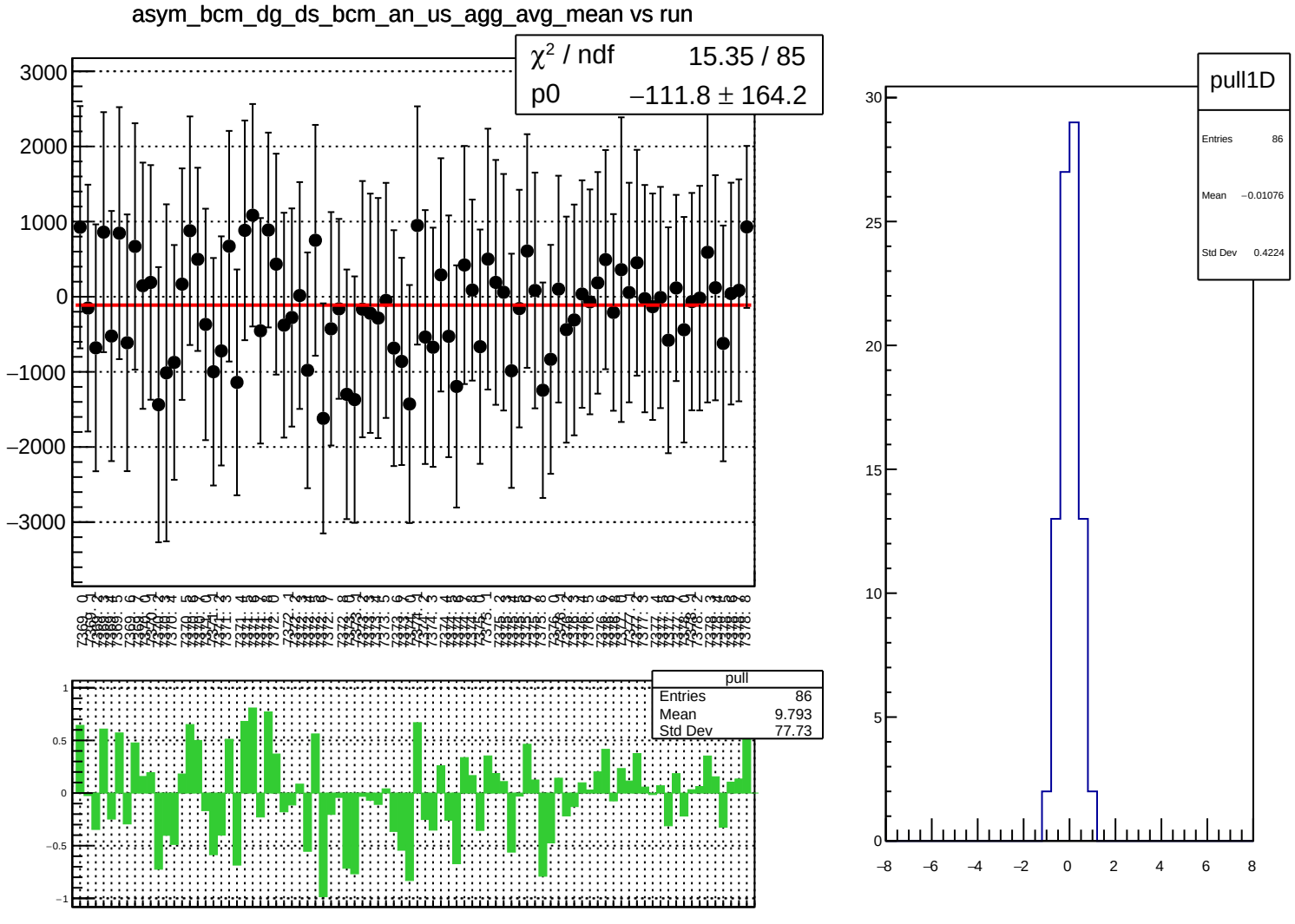

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 16.01 / 85
p0 −133.6 ± 165.1
pull
Entries 86
Mean −31.5
Std Dev 94.96
pull1D
Entries 86
Mean −0.0107
Std Dev 0.4313

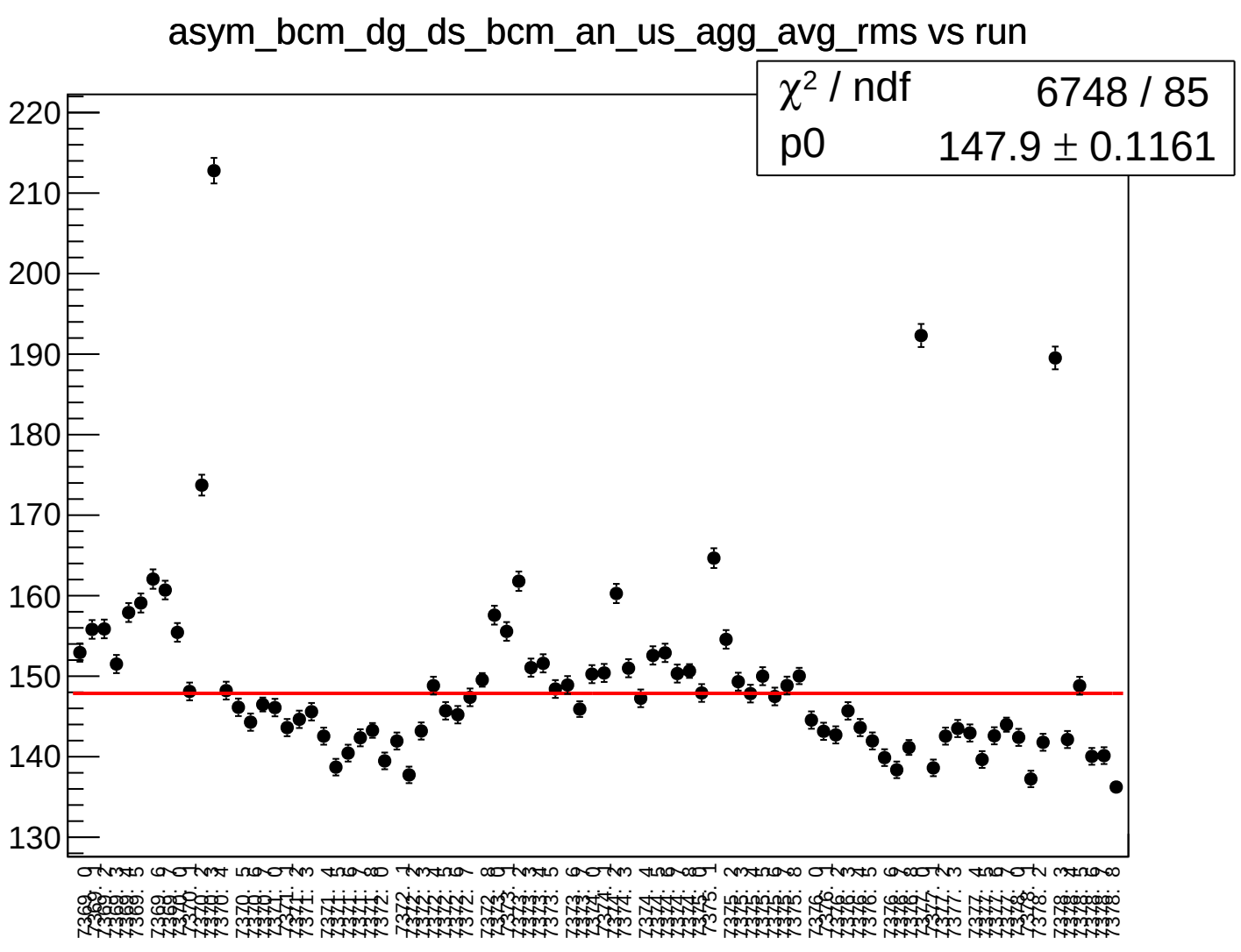

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 6571 / 85
p0 148.7 ± 0.1168
220
210
200
190
180
170
160
150
140
130

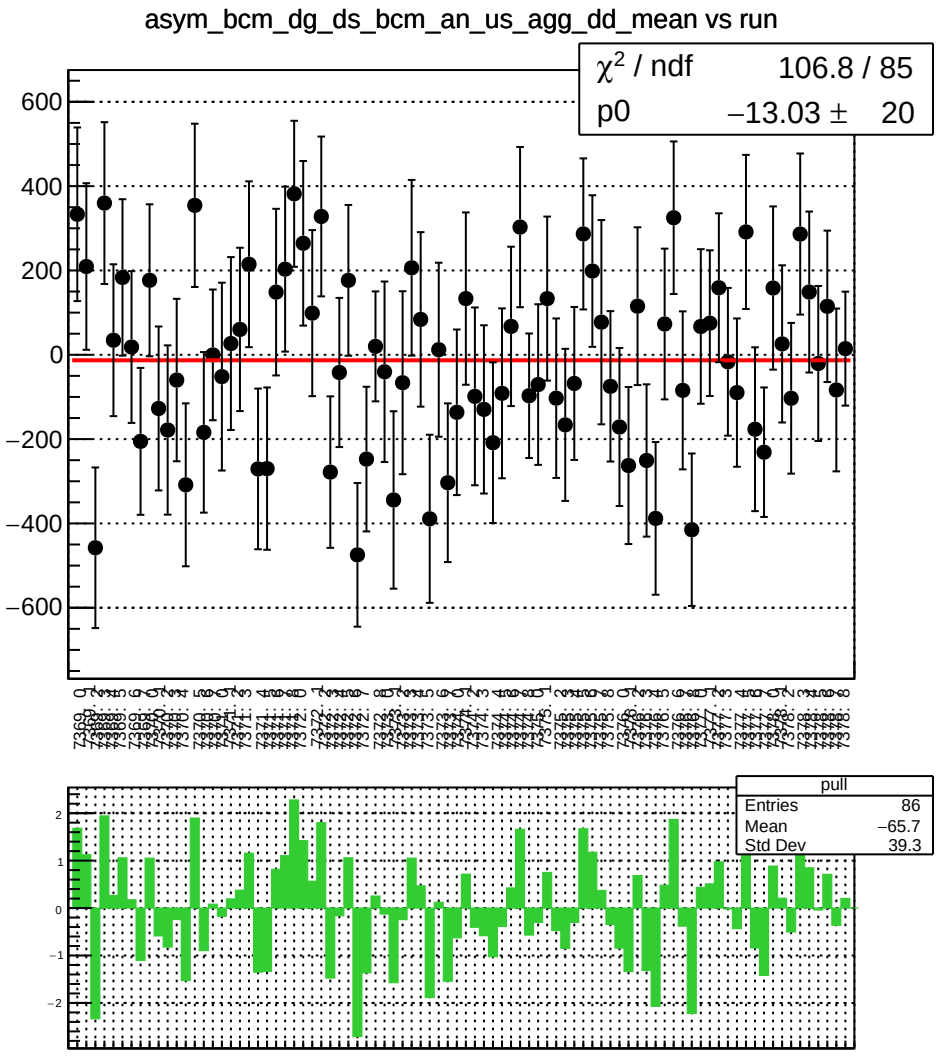

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 82.42 / 85
p0 −32.88 ± 25.45
pull
Entries 86
Mean 1554
Std Dev 1518

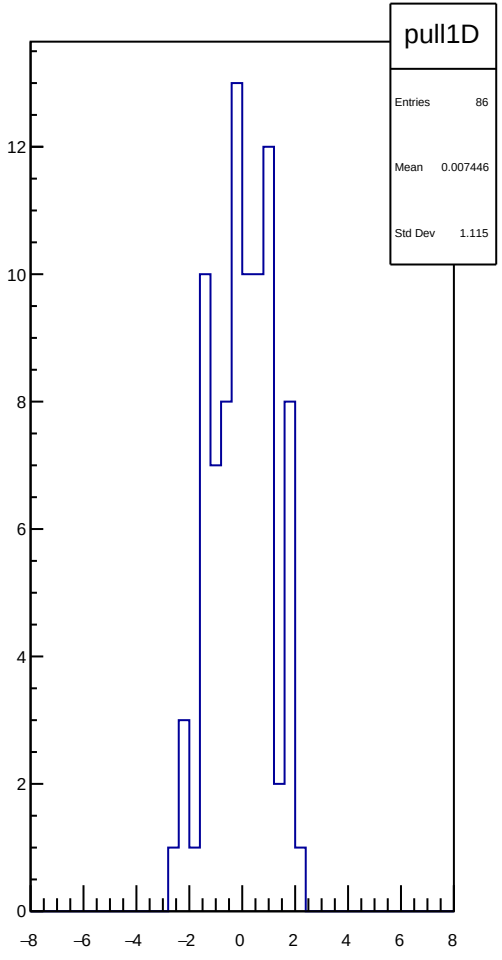

pull1D
Entries 86
Mean 0.001309
Std Dev 0.979

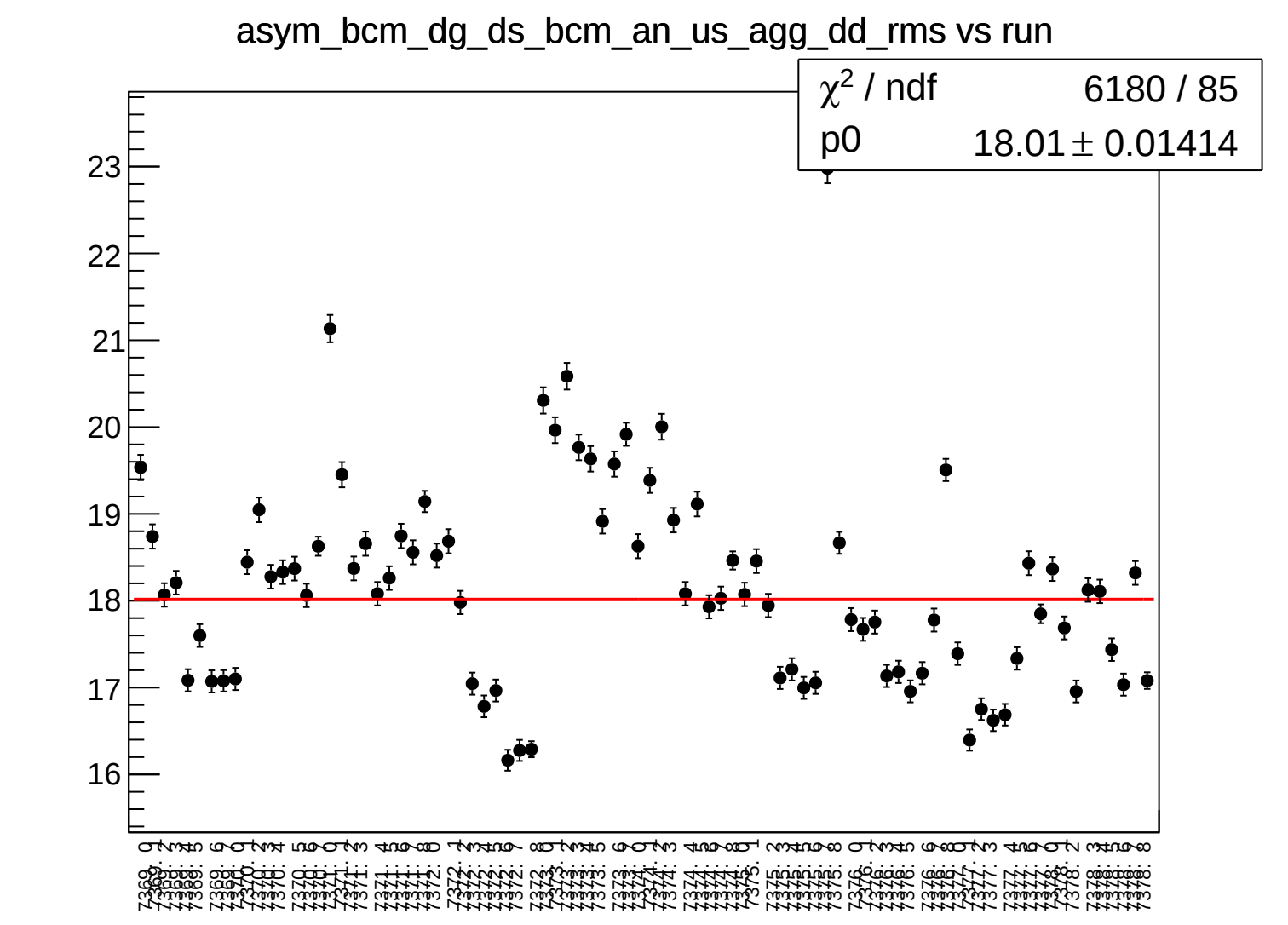

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1371 / 85
p0 22.96 ± 0.018
28
27
26
25
24
23
22

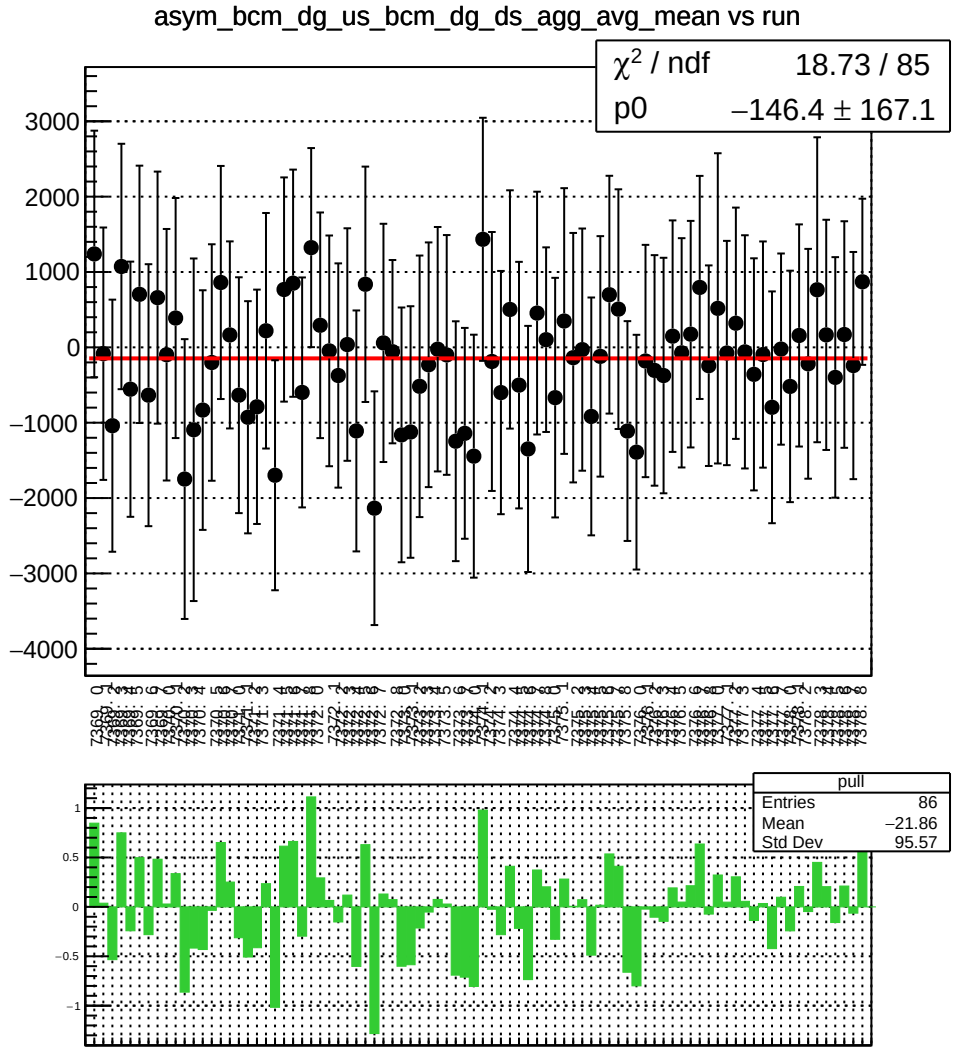

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.35 / 85
p0 −111.8 ± 164.2
pull
Entries 86
Mean 9.793
Std Dev 77.73
pull1D
Entries 86
Mean −0.01076
Std Dev 0.4224

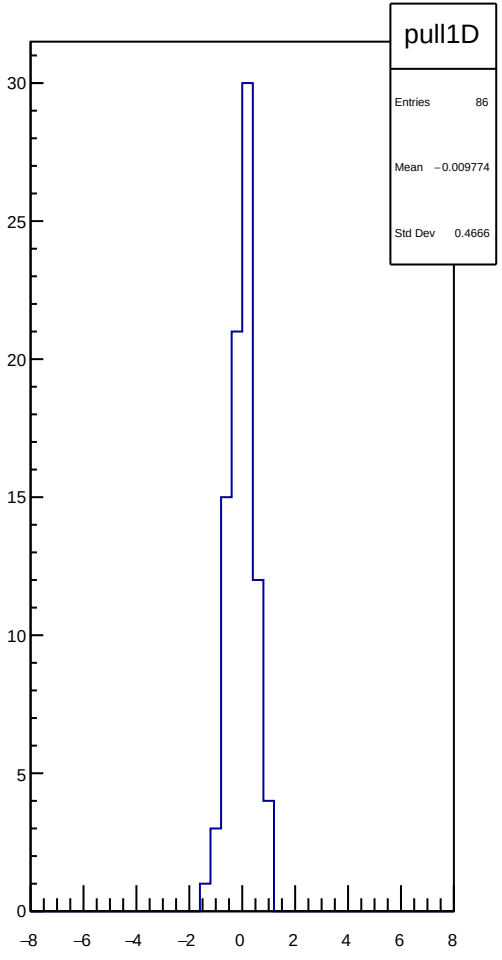

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 6748 / 85
p0 147.9 ± 0.1161
220
210
200
190
180
170
160
150
140
130

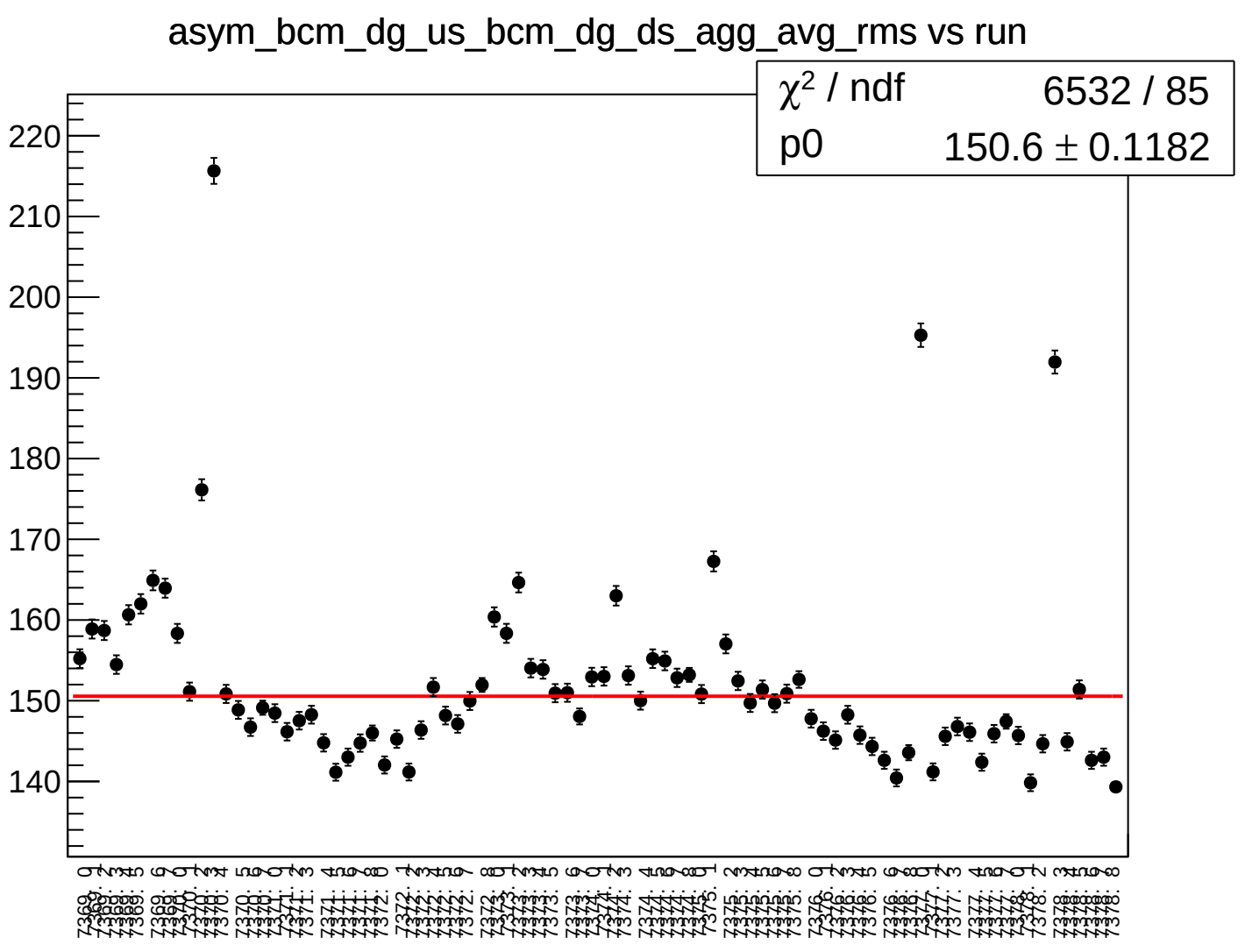

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 106.8 / 85
p0 −13.03 ± 20
600
400
200
0
−200
−400
−600
pull
Entries 86
Mean −65.7
Std Dev 39.3
2
1
0
−1
−2

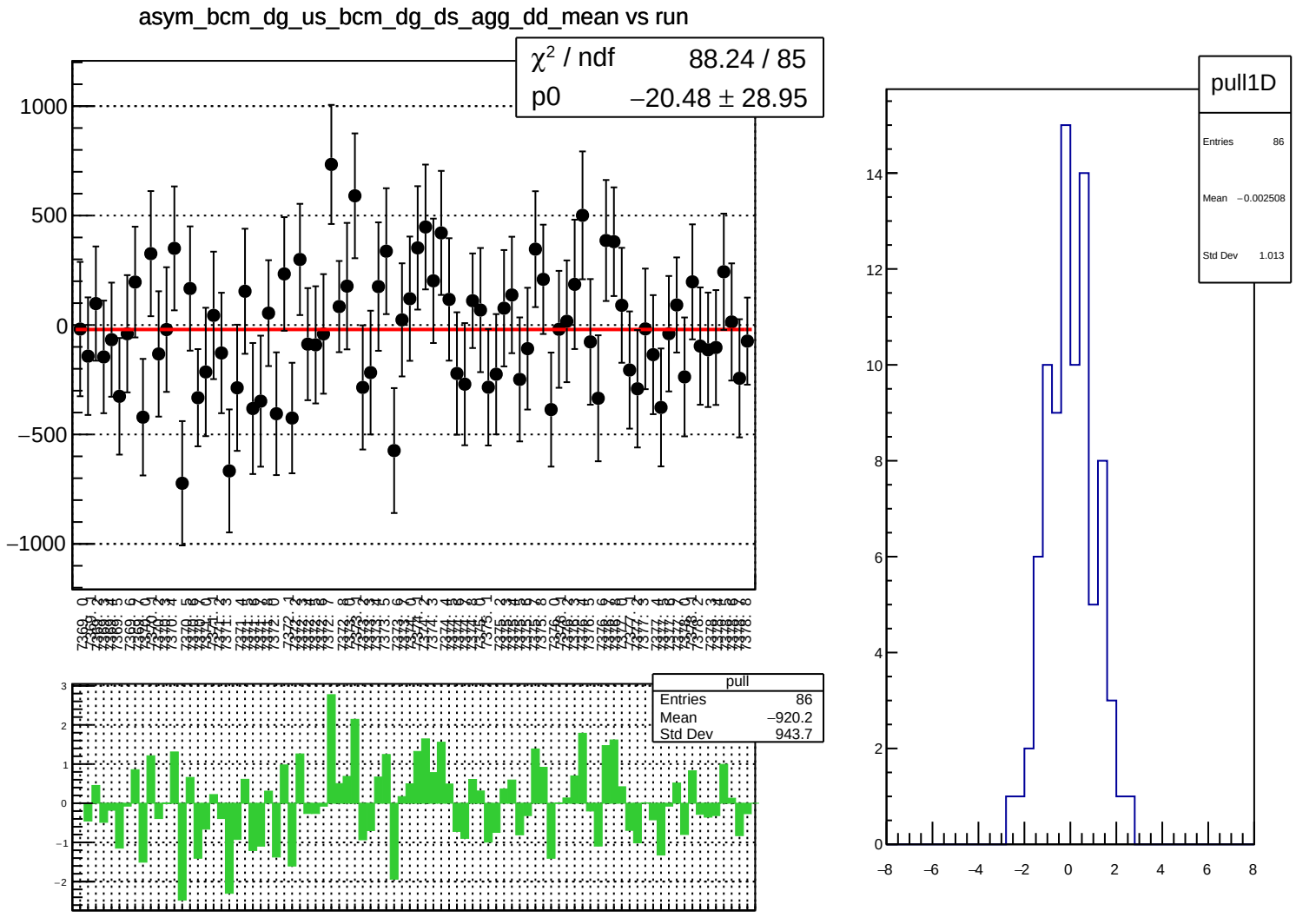

pull1D
Entries 86
Mean 0.007446
Std Dev 1.115
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

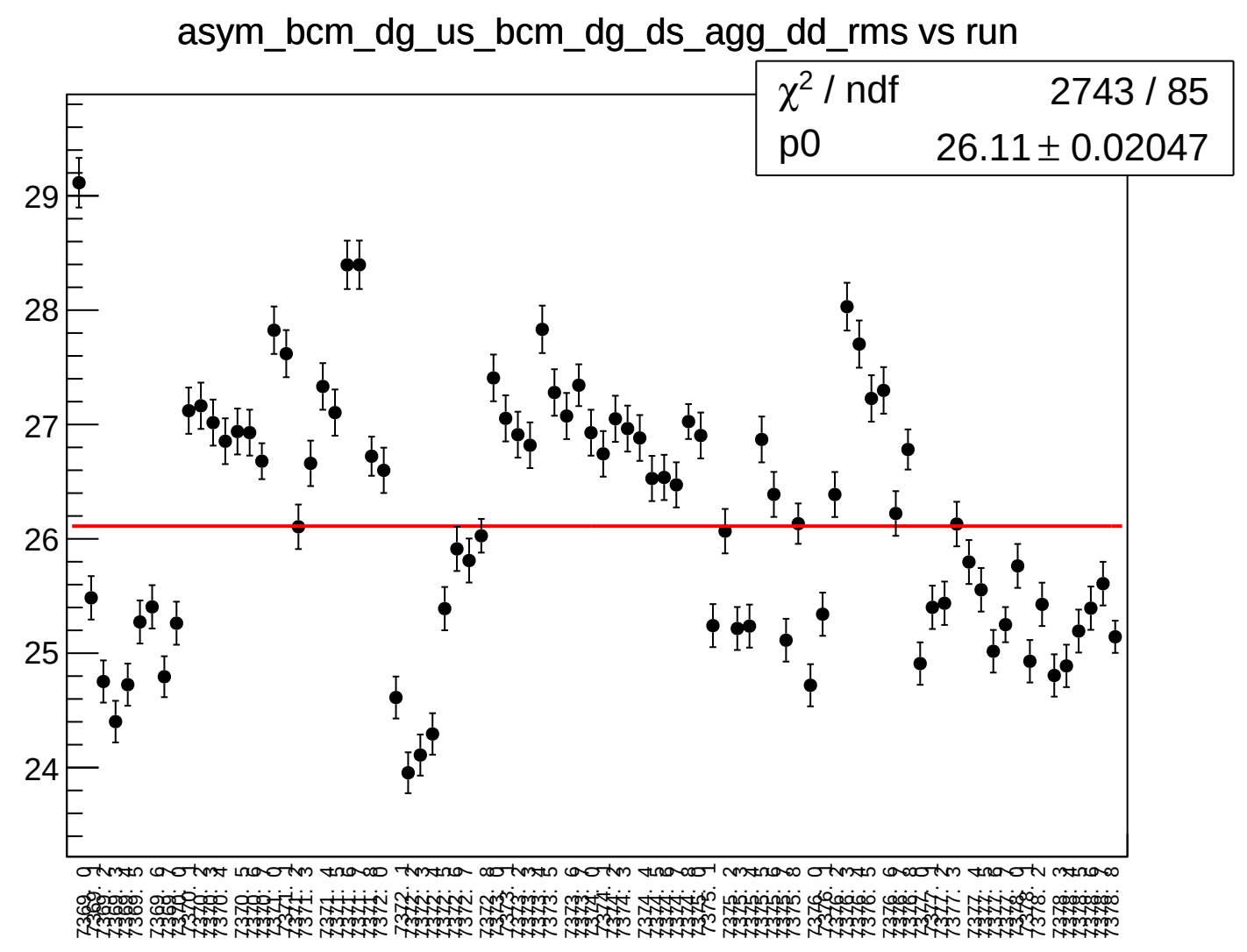

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 6180 / 85
p0 18.01 ± 0.01414
23
22
21
20
19
18
17
16

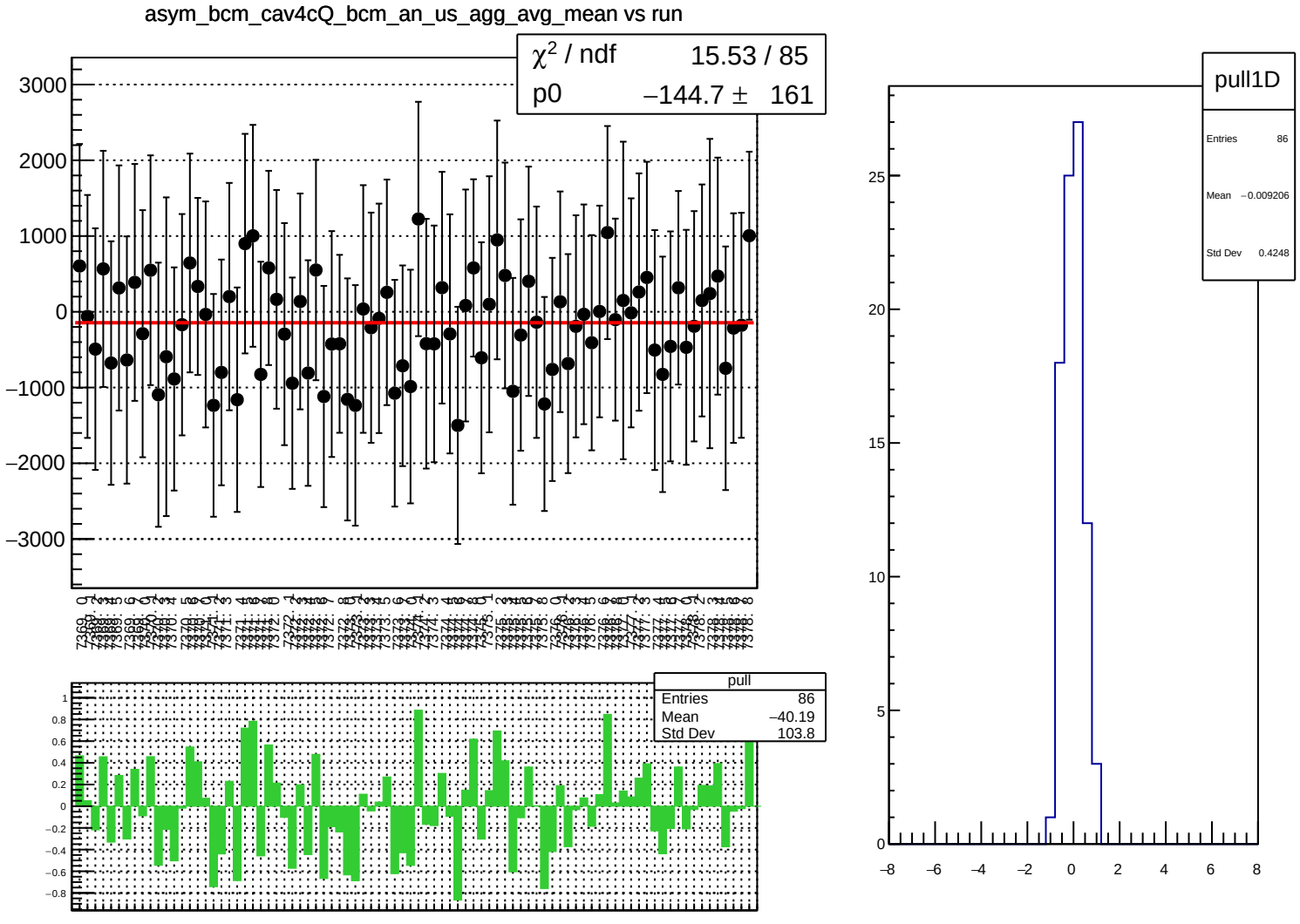

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 18.73 / 85
p0 −146.4 ± 167.1
pull
Entries 86
Mean −21.86
Std Dev 95.57

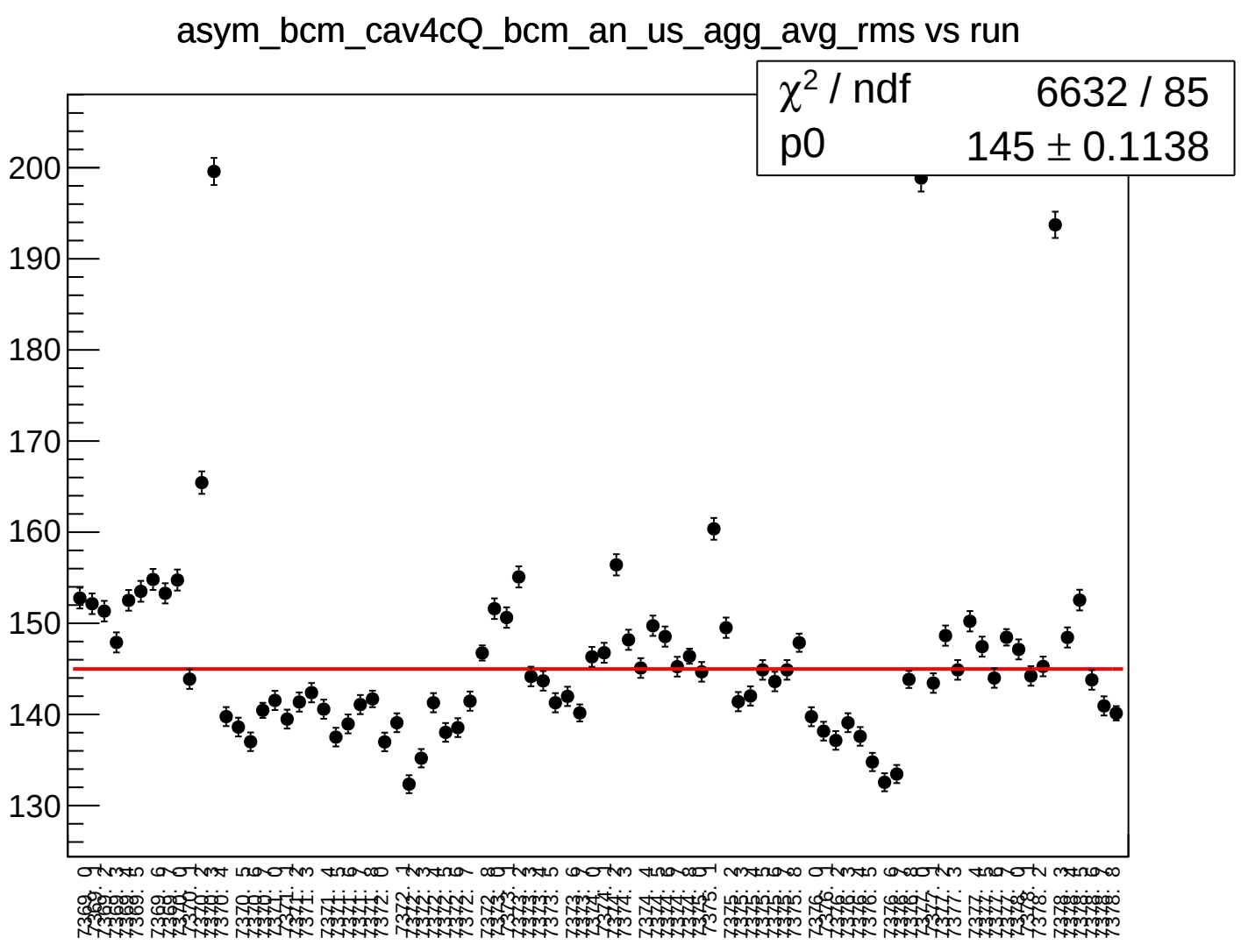

pull1D
Entries 86
Mean −0.009774
Std Dev 0.4666

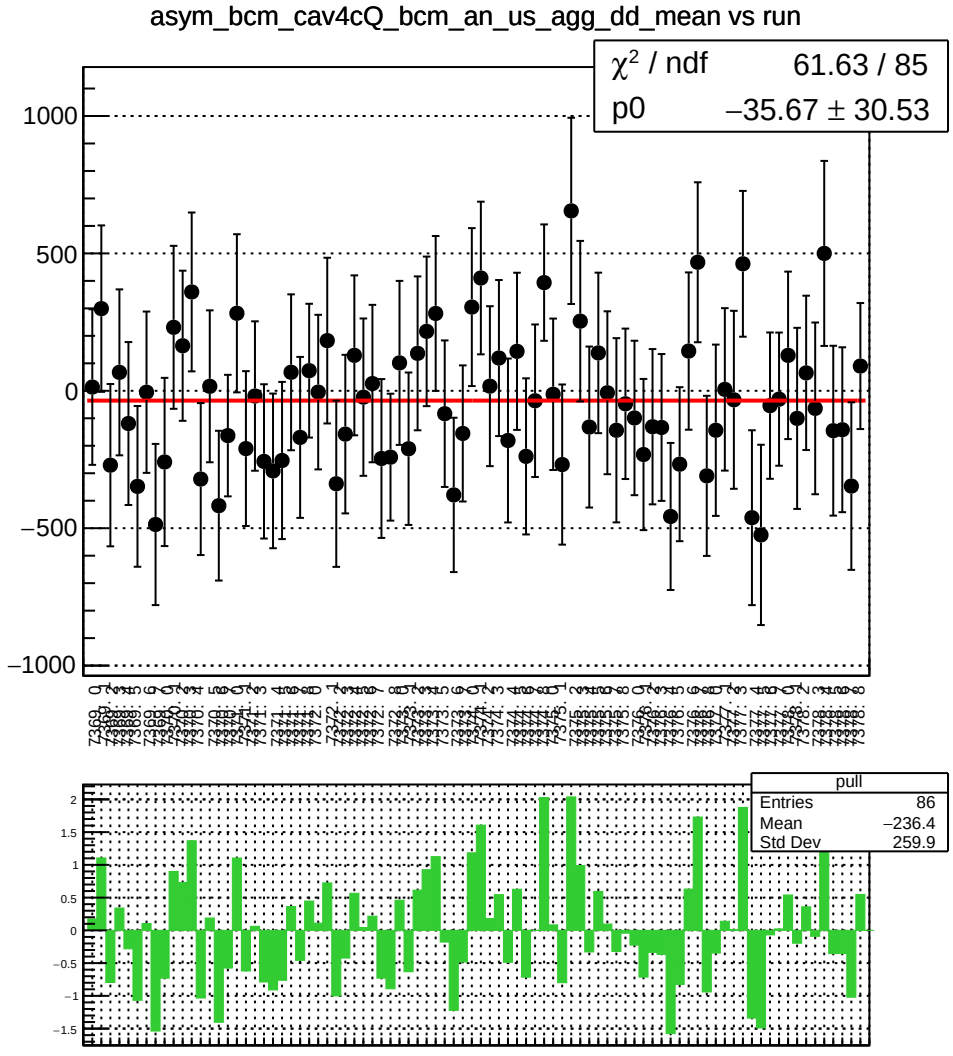

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 6532 / 85
p0 150.6 ± 0.1182
220
210
200
190
180
170
160
150
140

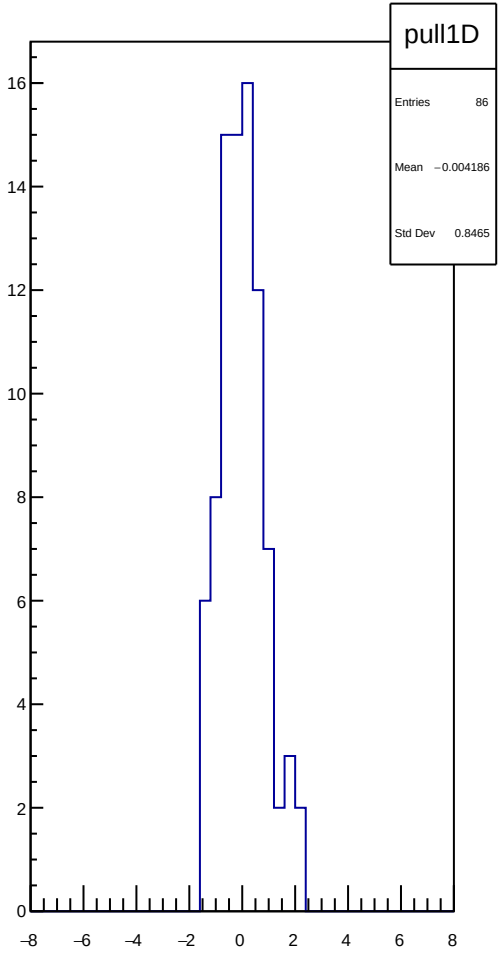

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 88.24 / 85
p0 −20.48 ± 28.95
1000
500
0
−500
−1000
pull
Entries 86
Mean −920.2
Std Dev 943.7
3
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.002508
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

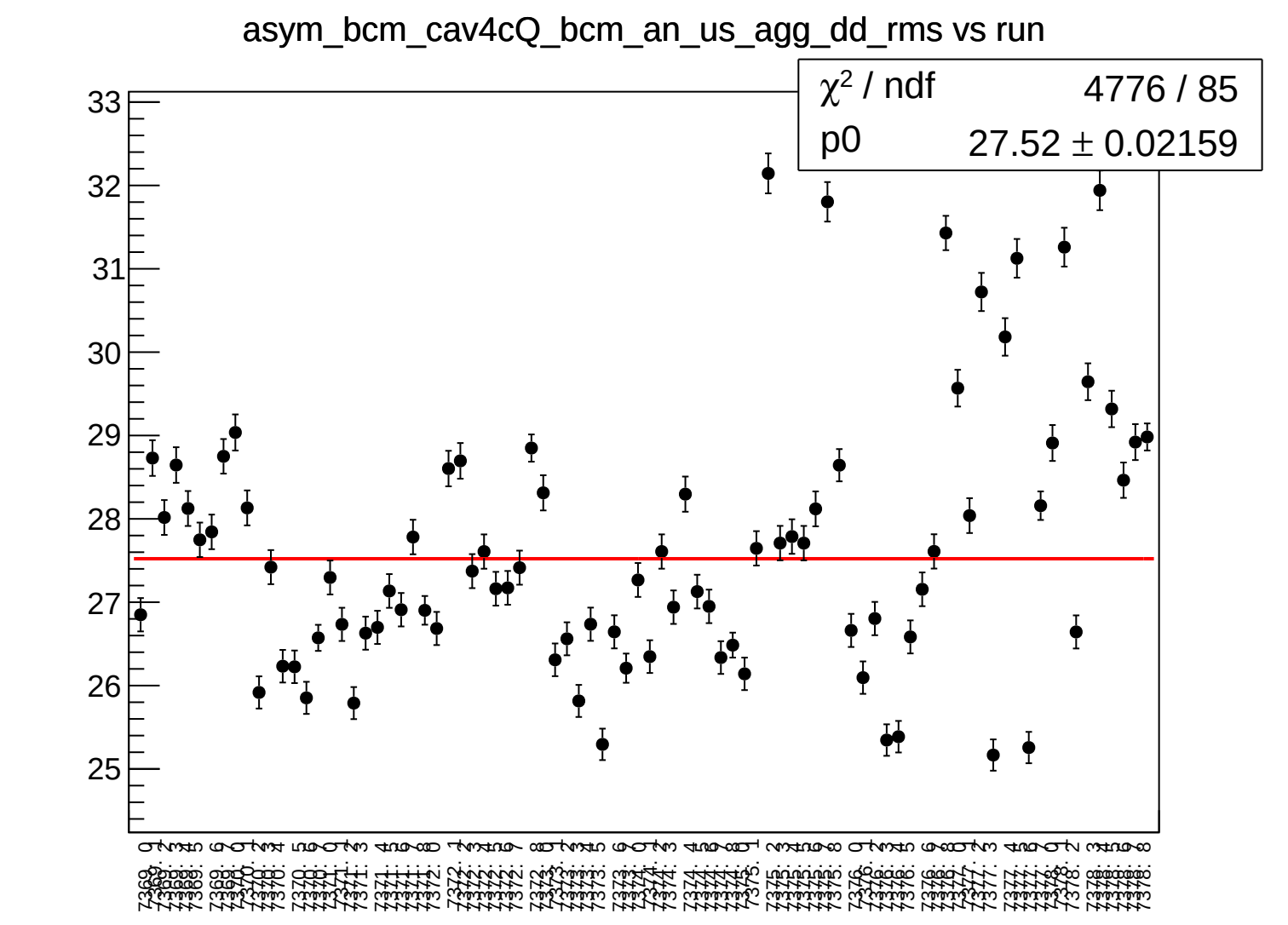

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2743 / 85
p0 26.11 ± 0.02047
29
28
27
26
25
24

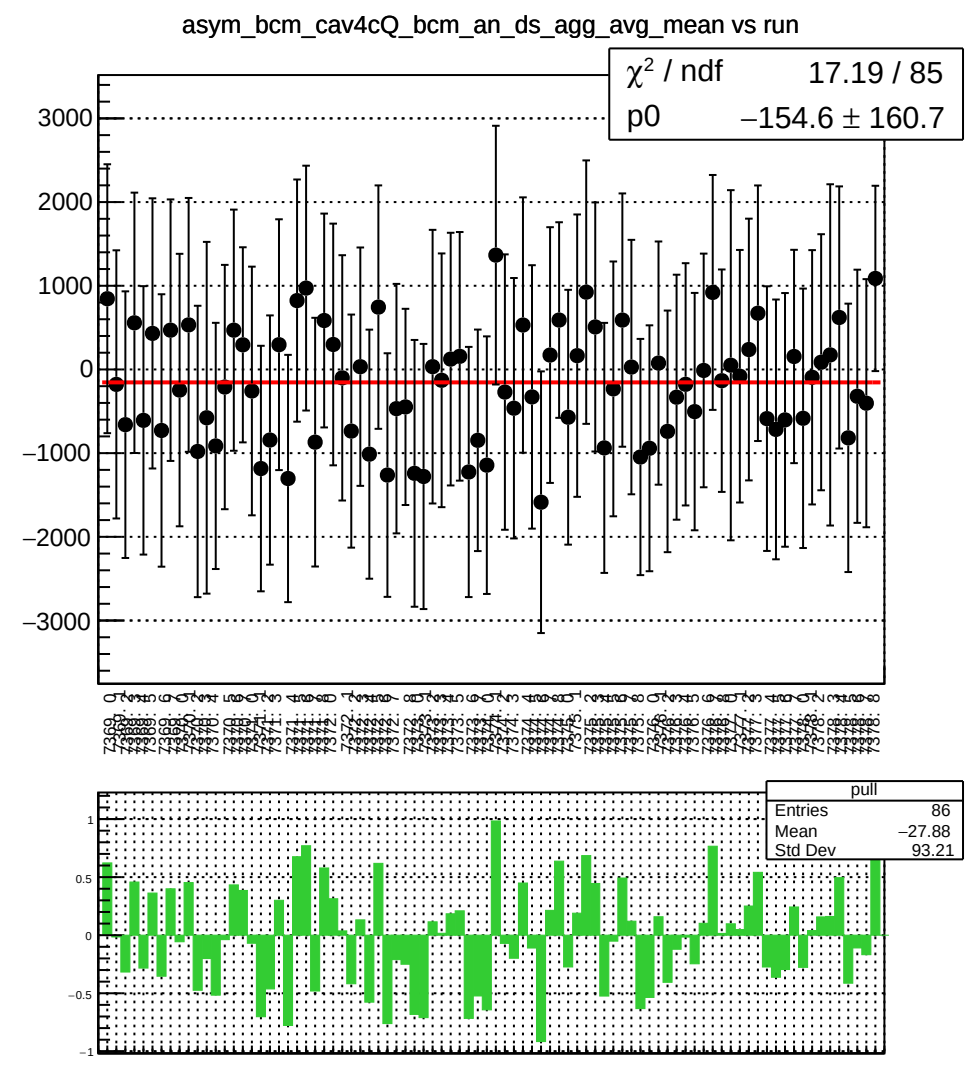

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.53 / 85
p0 −144.7 ± 161
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −40.19
Std Dev 103.8
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 86
Mean −0.009206
Std Dev 0.4248
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

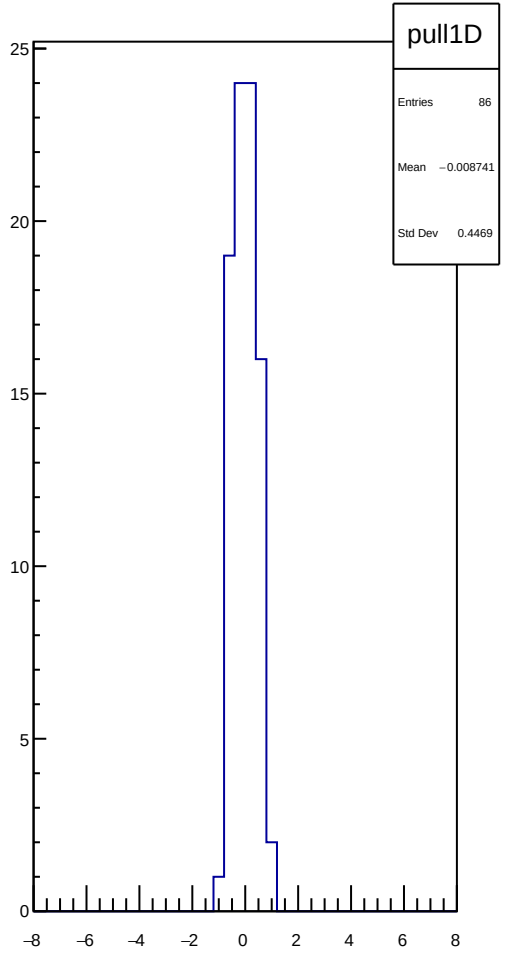

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 6632 / 85
p0 145 ± 0.1138
200
190
180
170
160
150
140
130

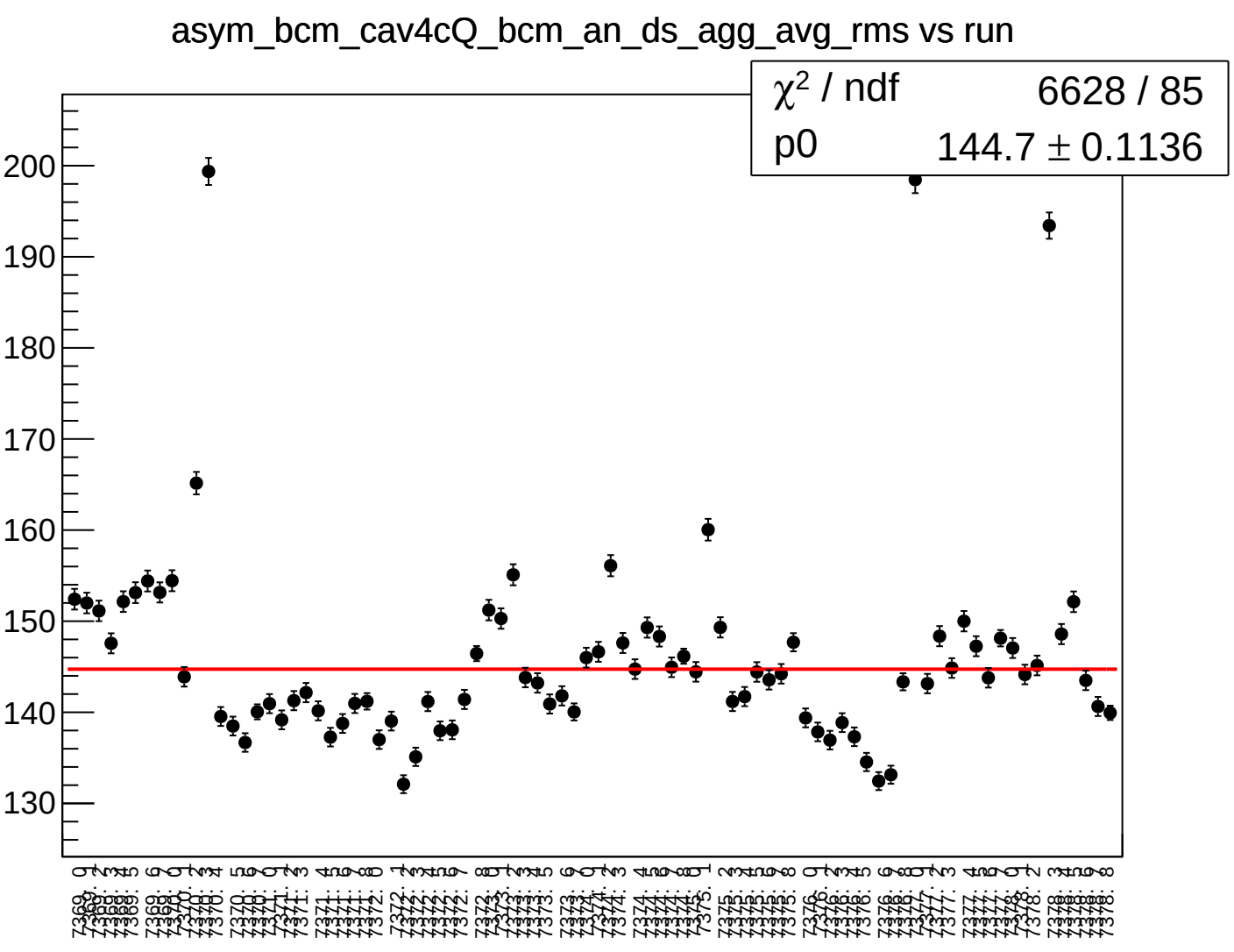

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 61.63 / 85
p0 −35.67 ± 30.53
1000
500
0
−500
−1000
pull
Entries 86
Mean −236.4
Std Dev 259.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

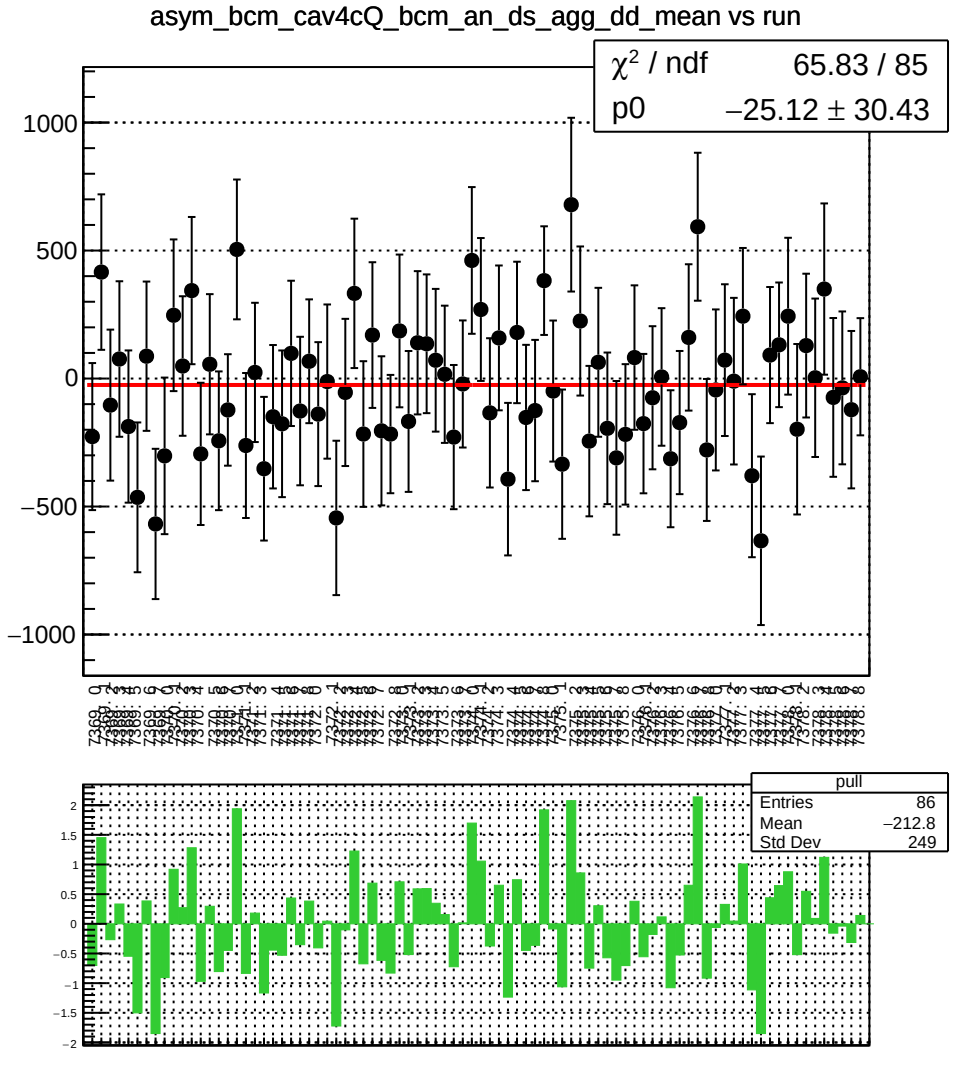

pull1D
Entries 86
Mean −0.004186
Std Dev 0.8465
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

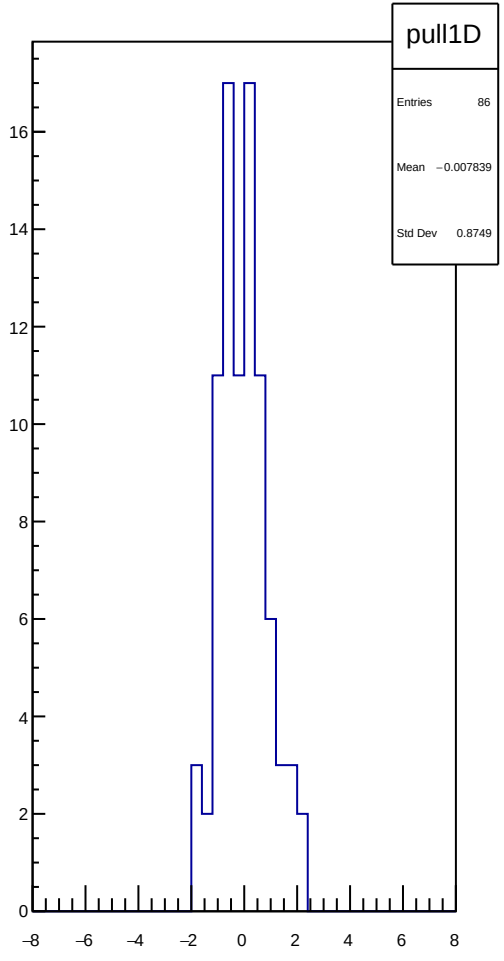

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 4776 / 85
p0 27.52 ± 0.02159
33
32
31
30
29
28
27
26
25

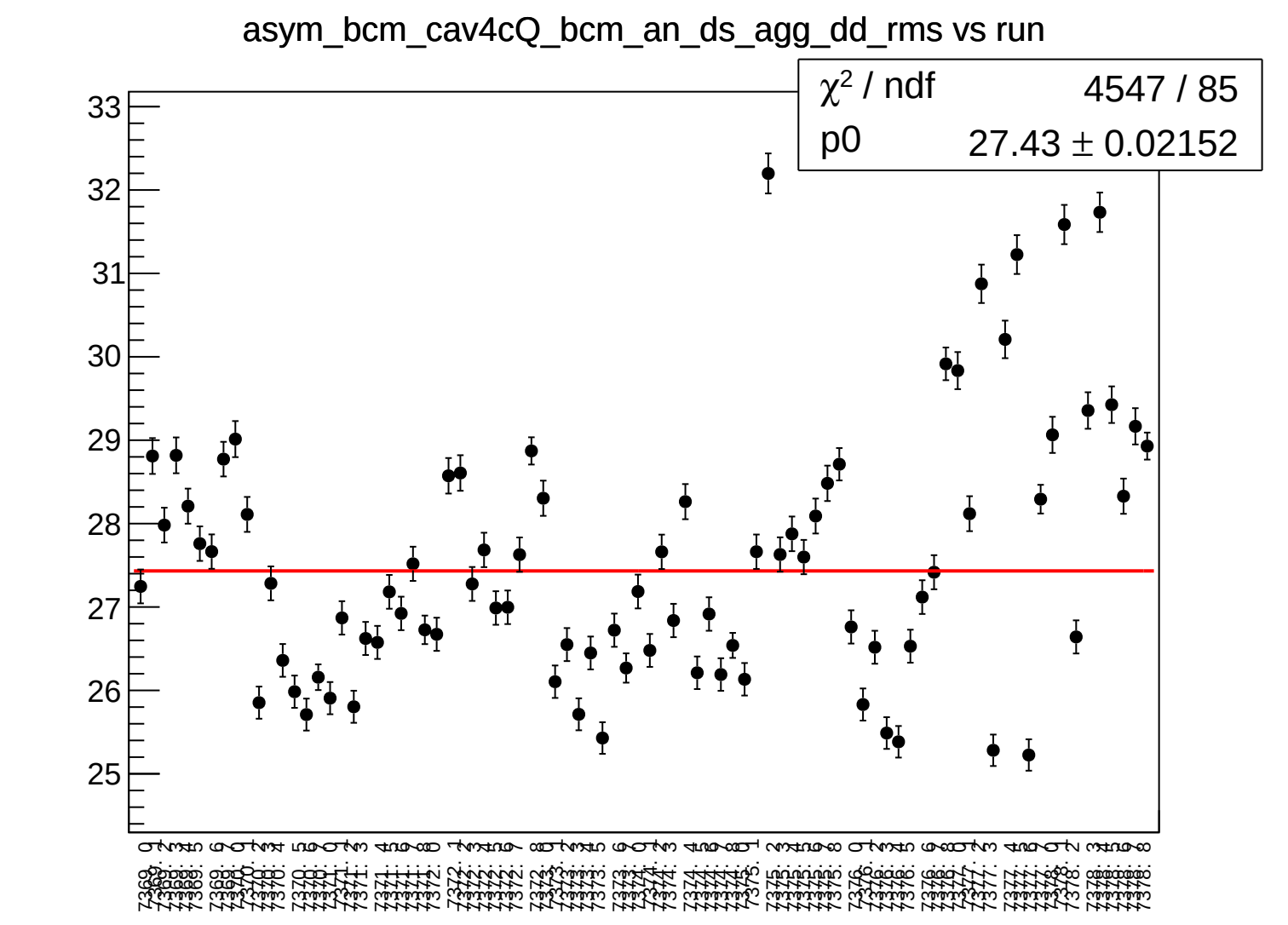

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.19 / 85
p0 −154.6 ± 160.7
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −27.88
Std Dev 93.21
1
0.5
0
−0.5
−1

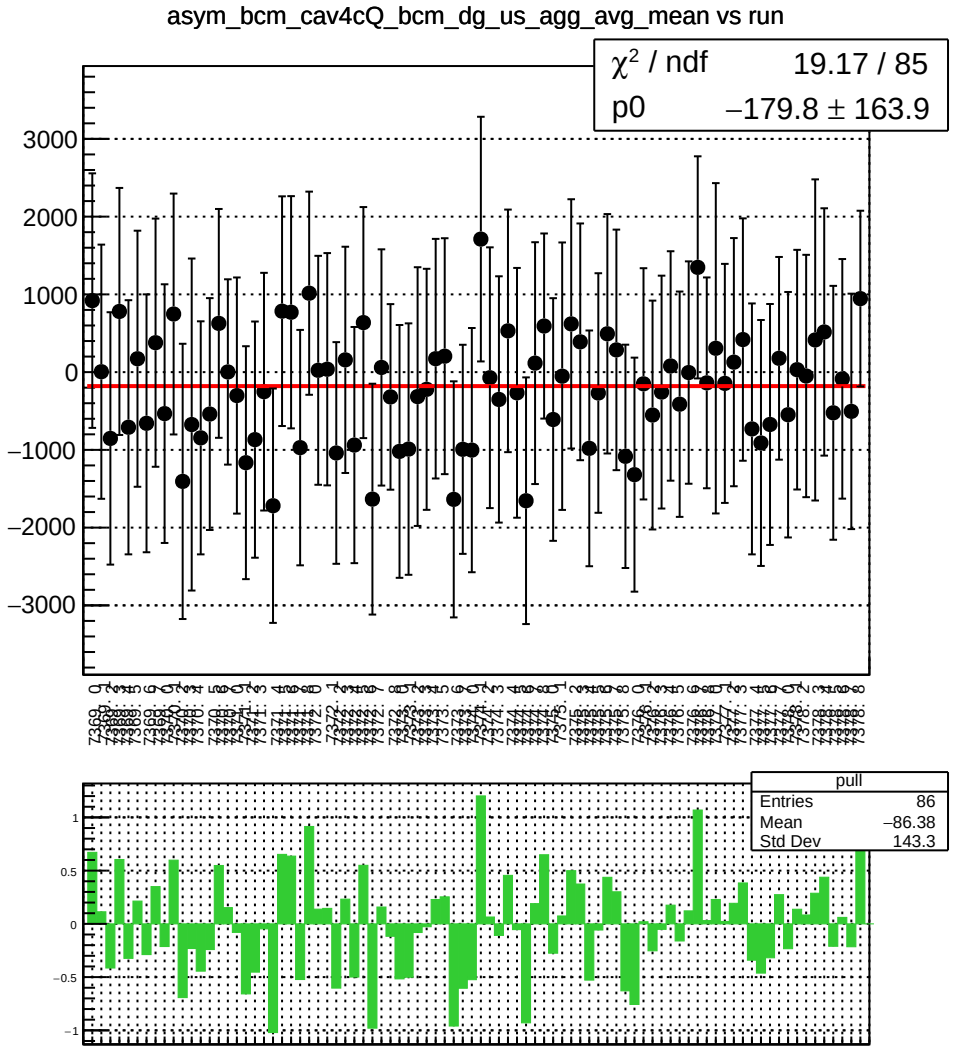

pull1D
Entries 86
Mean −0.008741
Std Dev 0.4469
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

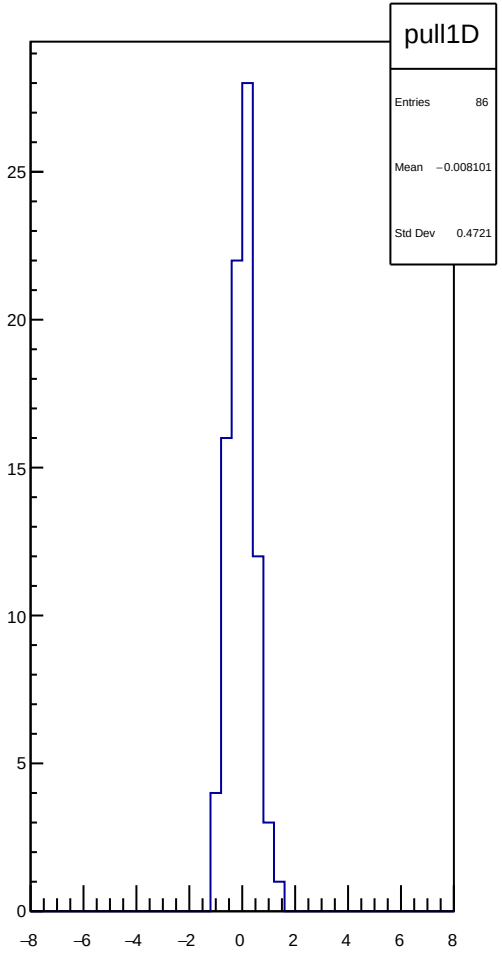

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6628 / 85
p0 144.7 ± 0.1136
200
190
180
170
160
150
140
130

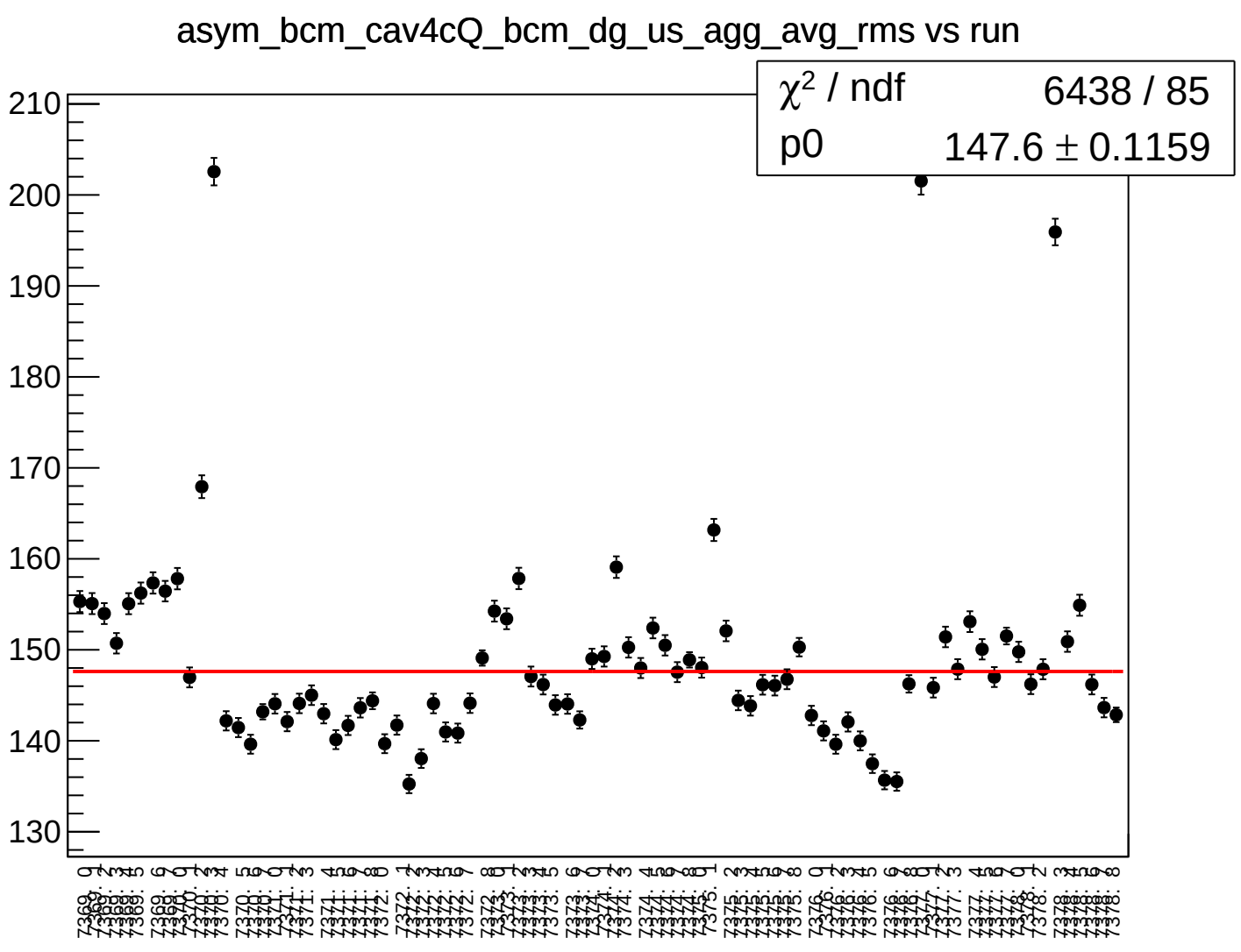

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 65.83 / 85
p0 −25.12 ± 30.43
1000
500
0
−500
−1000
pull
Entries 86
Mean −212.8
Std Dev 249
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

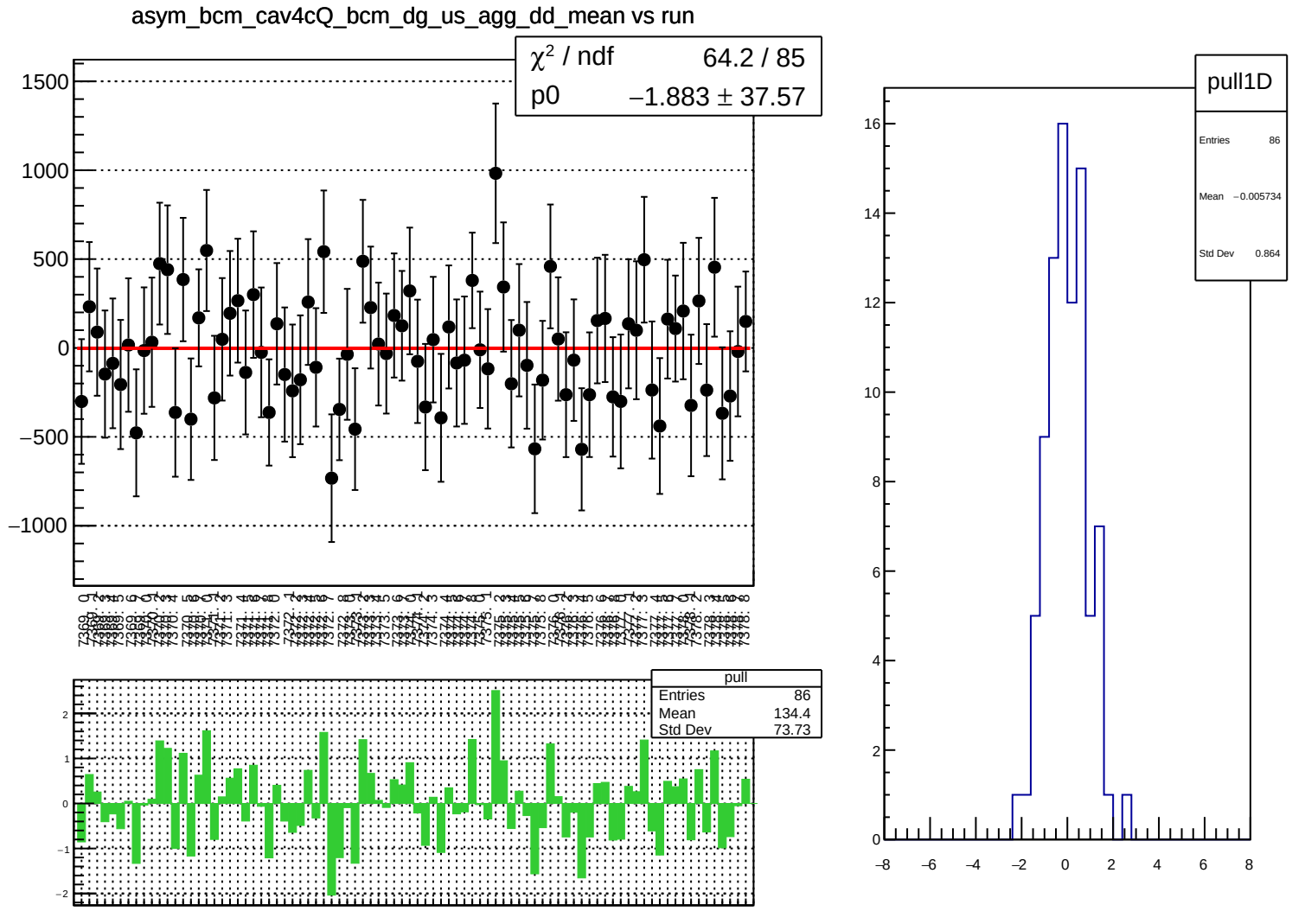

pull1D
Entries 86
Mean −0.007839
Std Dev 0.8749
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

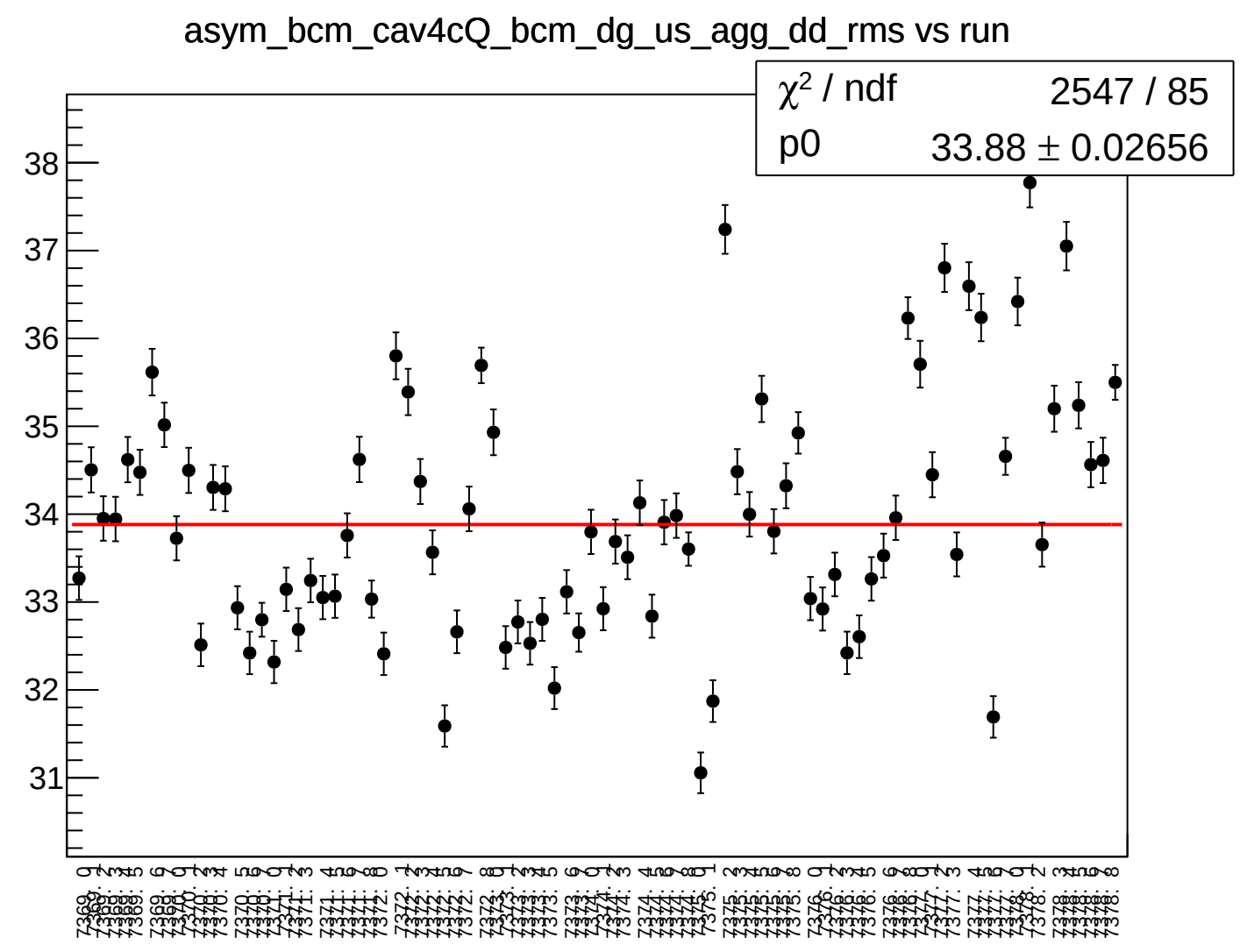

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4547 / 85
p0 27.43 ± 0.02152
33
32
31
30
29
28
27
26
25

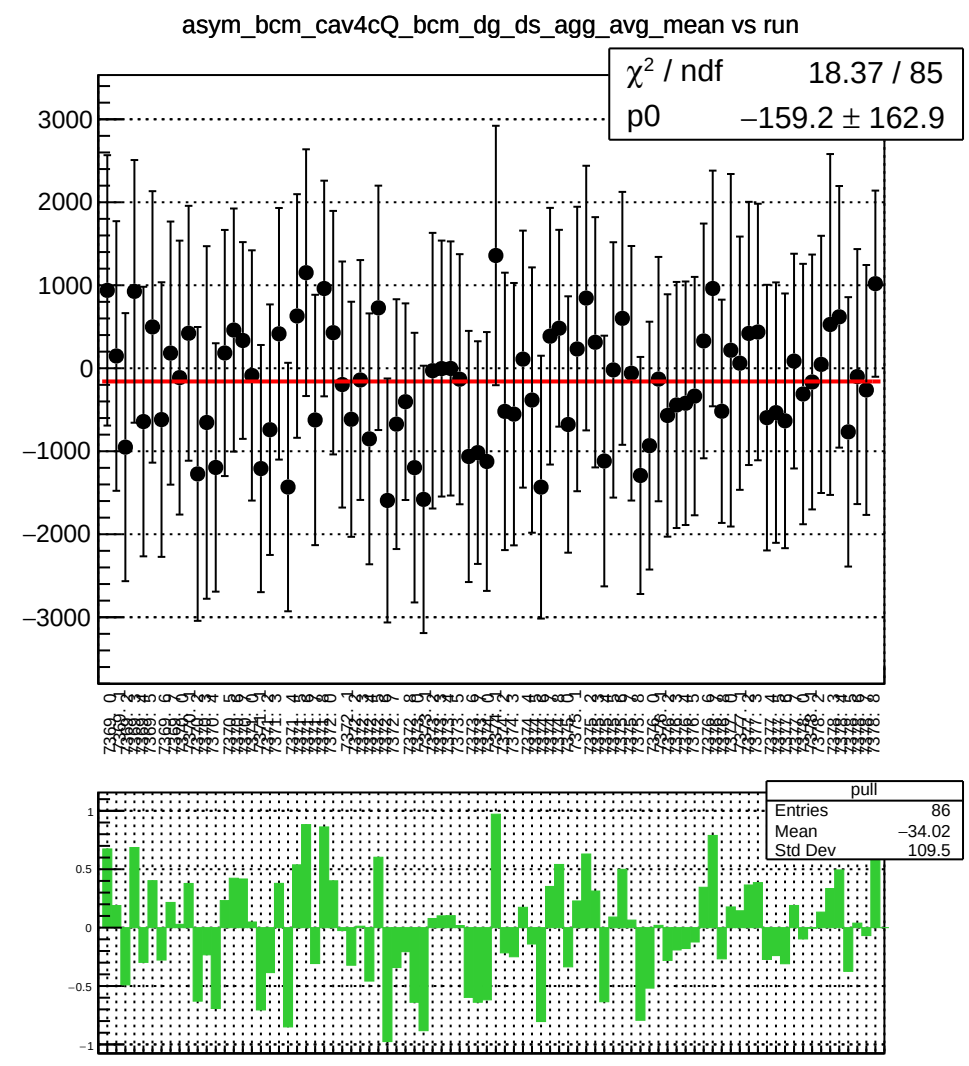

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 19.17 / 85
p0 −179.8 ± 163.9
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −86.38
Std Dev 143.3
1
0.5
0
−0.5
−1

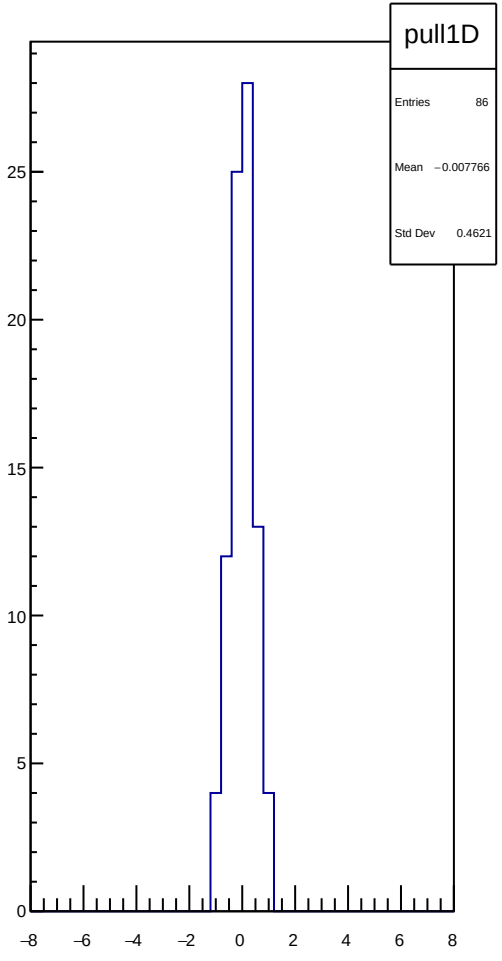

pull1D
Entries 86
Mean −0.008101
Std Dev 0.4721
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

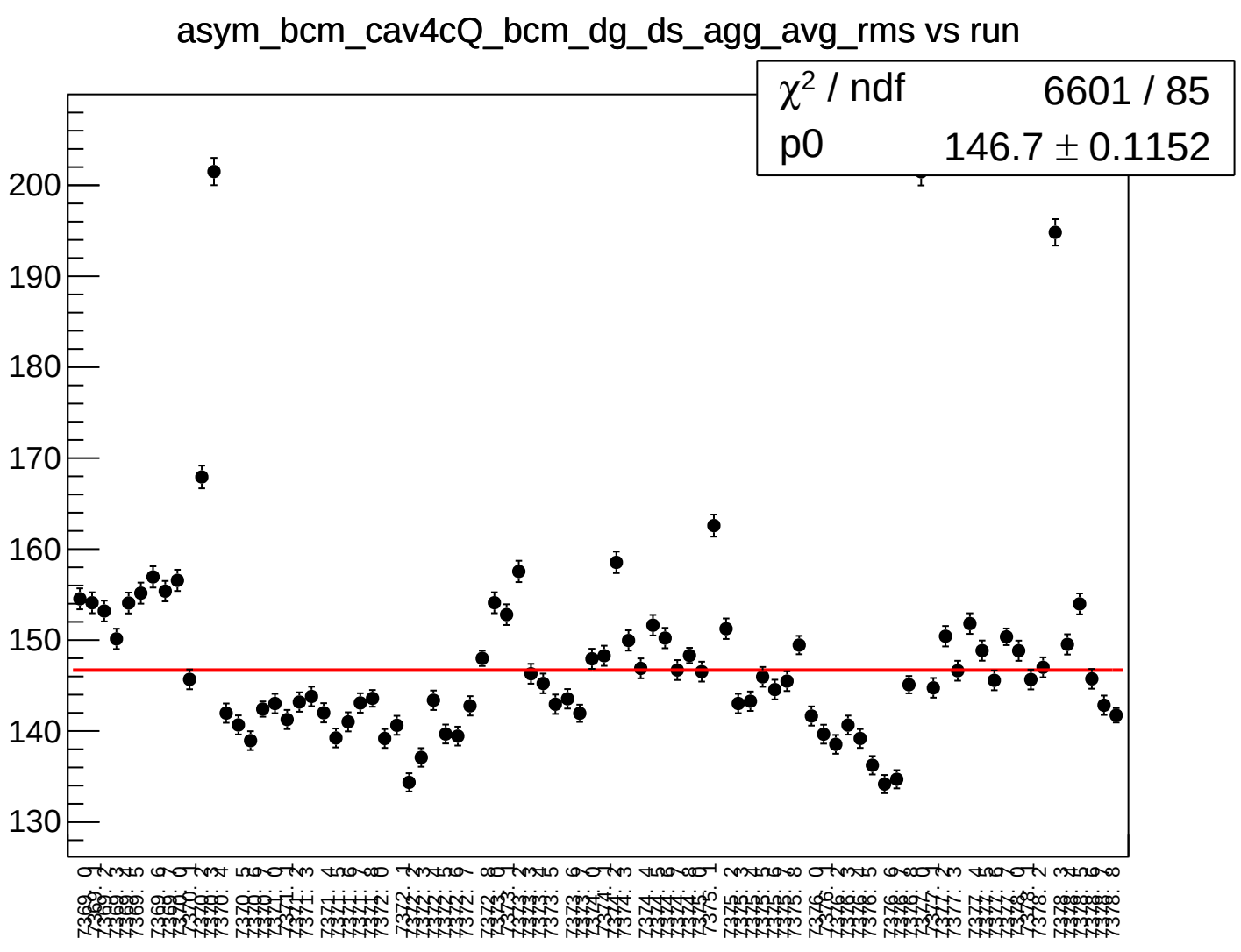

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 6438 / 85
p0 147.6 ± 0.1159
210
200
190
180
170
160
150
140
130

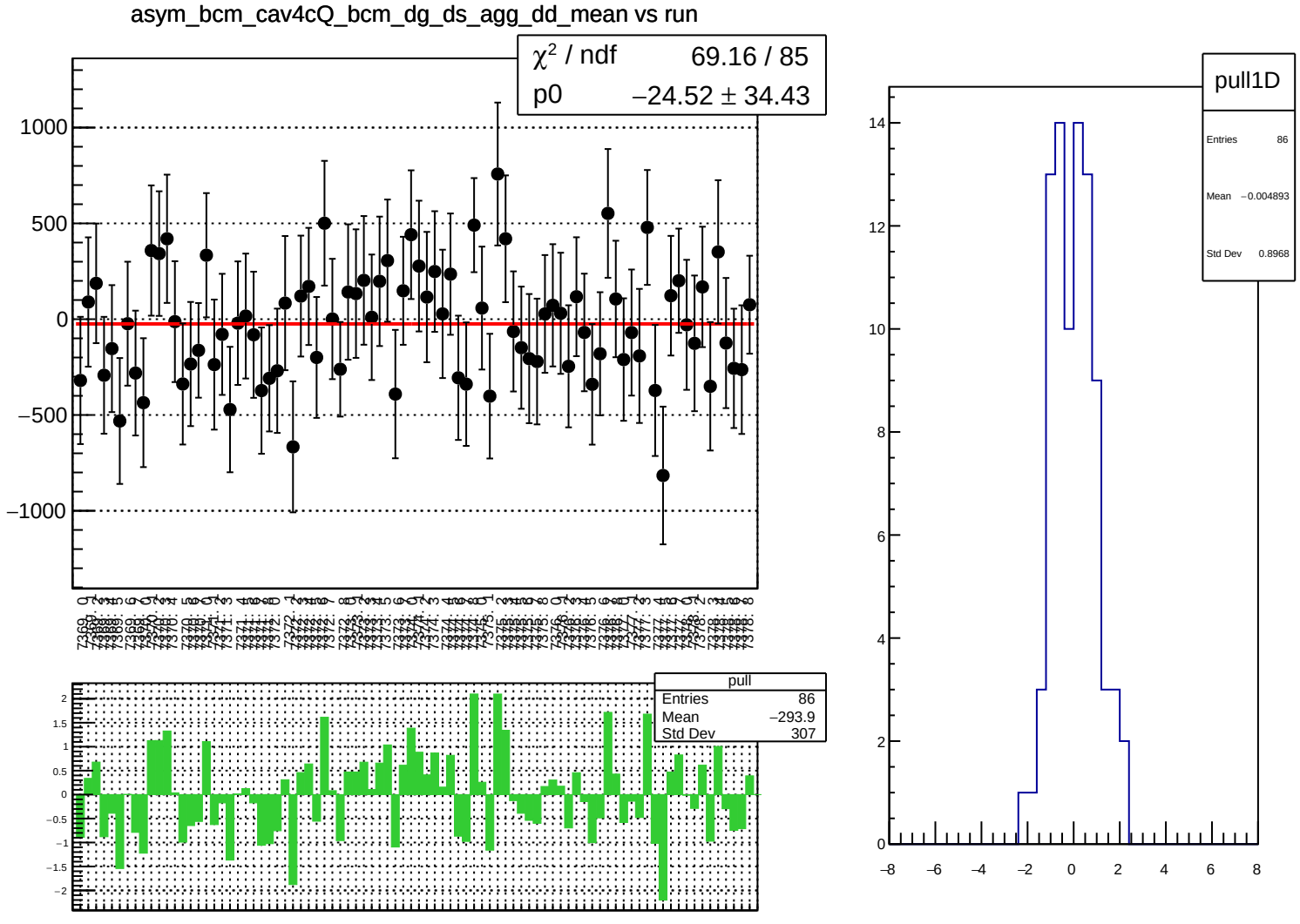

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 64.2 / 85
p0 −1.883 ± 37.57
1500
1000
500
0
−500
−1000
pull
Entries 86
Mean 134.4
Std Dev 73.73
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.005734
Std Dev 0.864
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

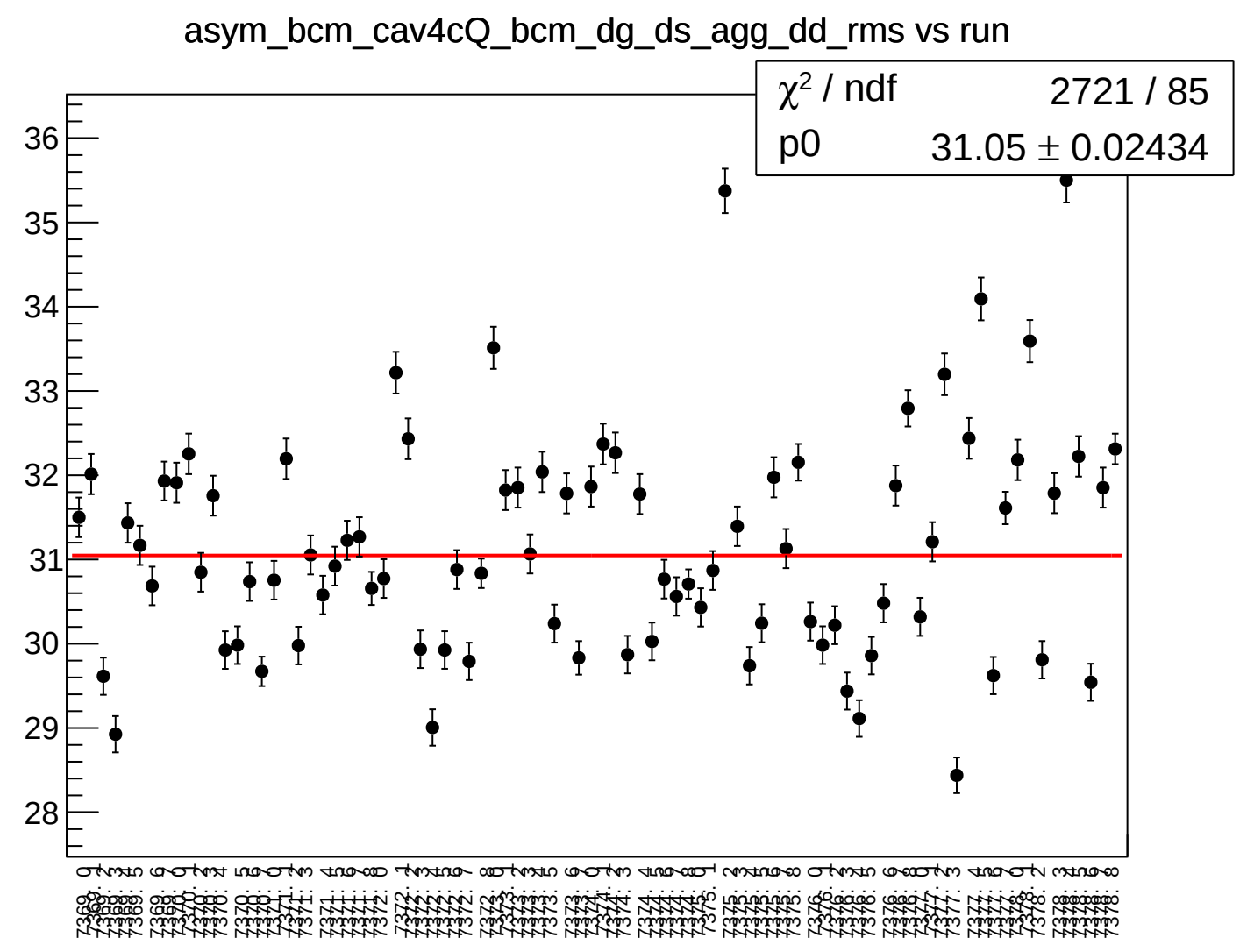

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2547 / 85
p0 33.88 ± 0.02656
38
37
36
35
34
33
32
31

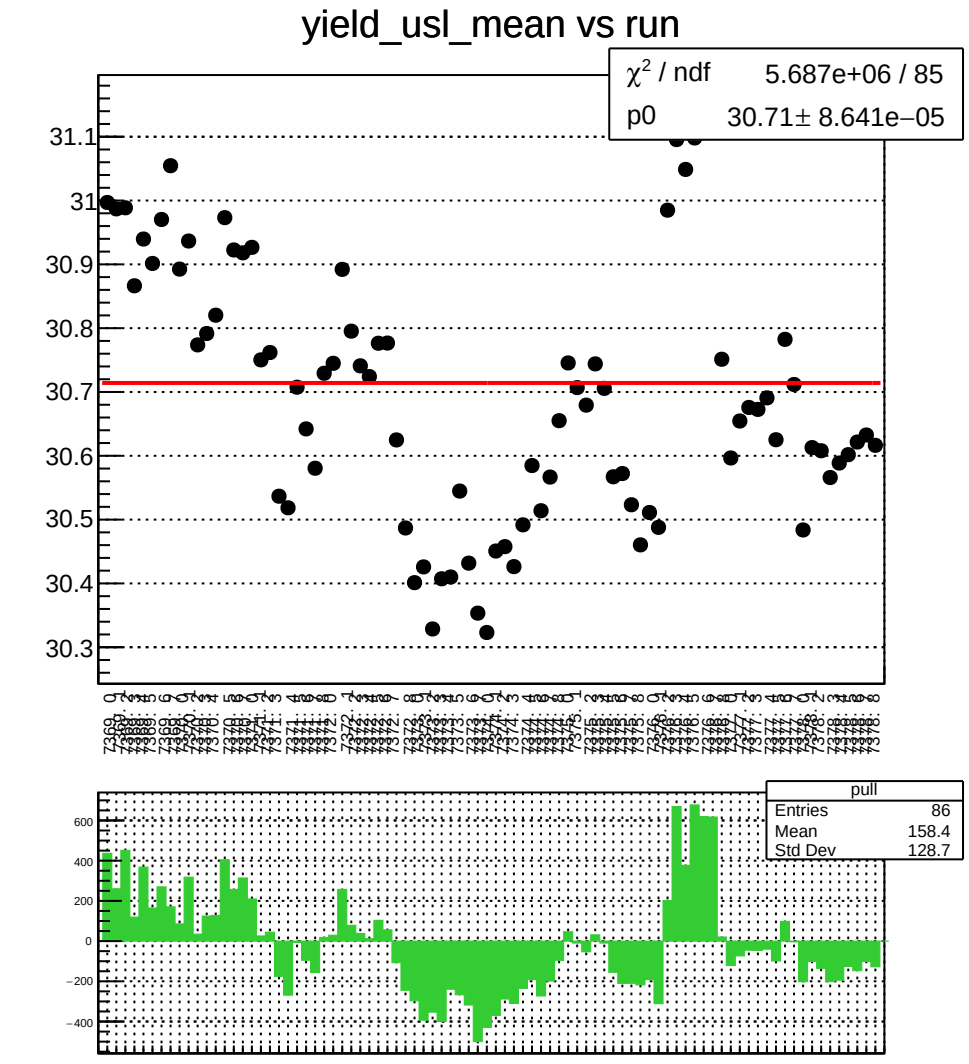

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 18.37 / 85
p0 −159.2 ± 162.9
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −34.02
Std Dev 109.5
1
0.5
0
−0.5
−1

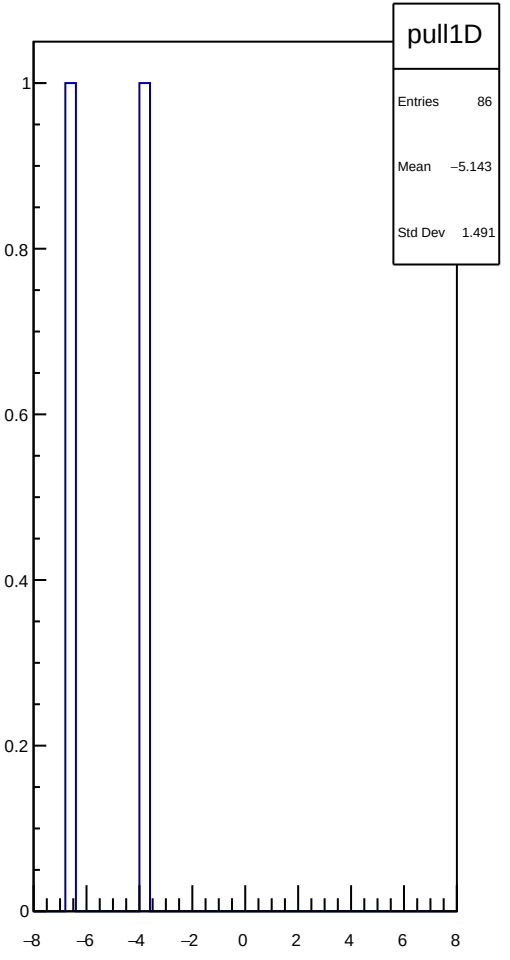

pull1D
Entries 86
Mean −0.007766
Std Dev 0.4621
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

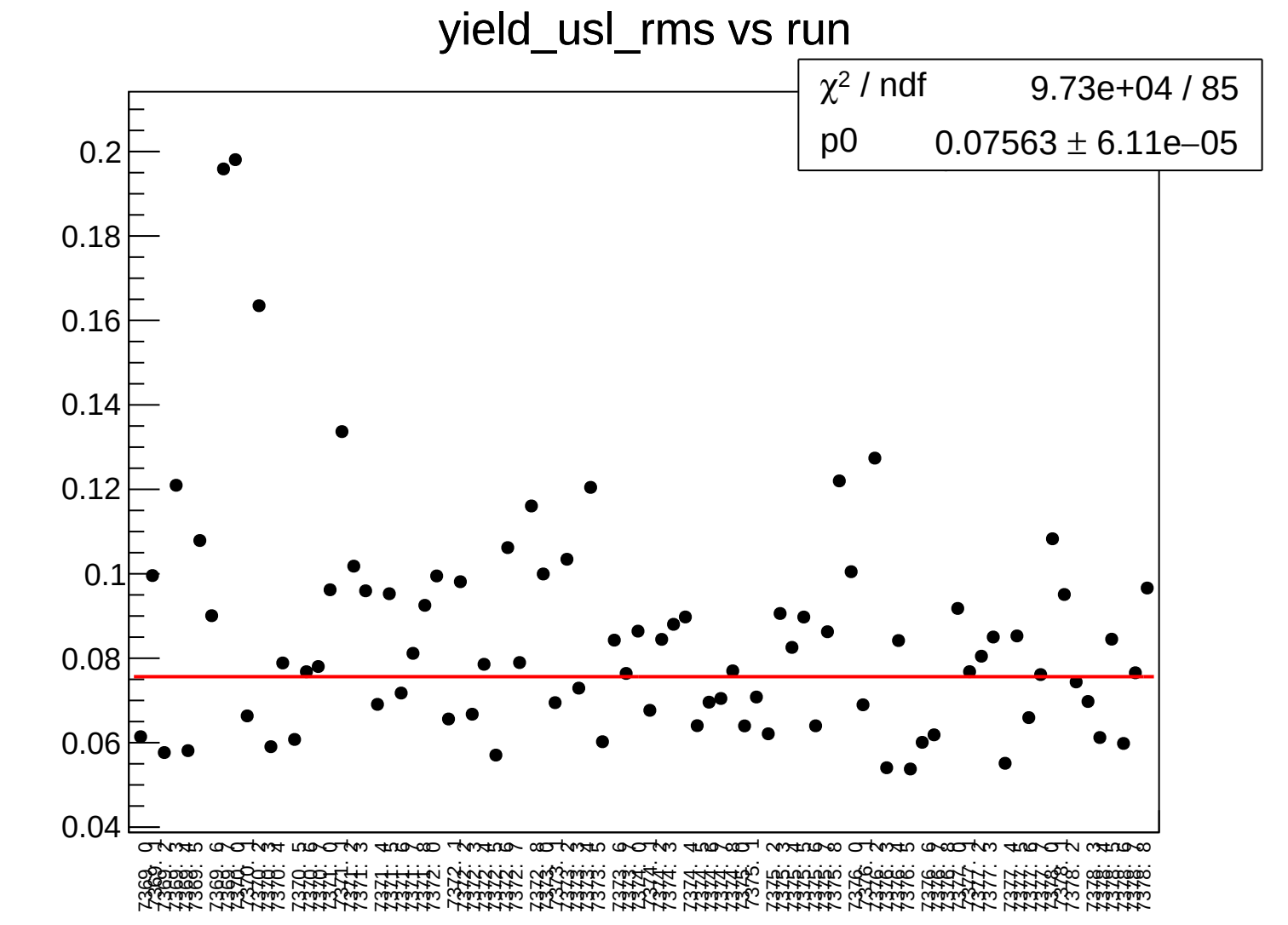

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 6601 / 85
p0 146.7 ± 0.1152
200
190
180
170
160
150
140
130

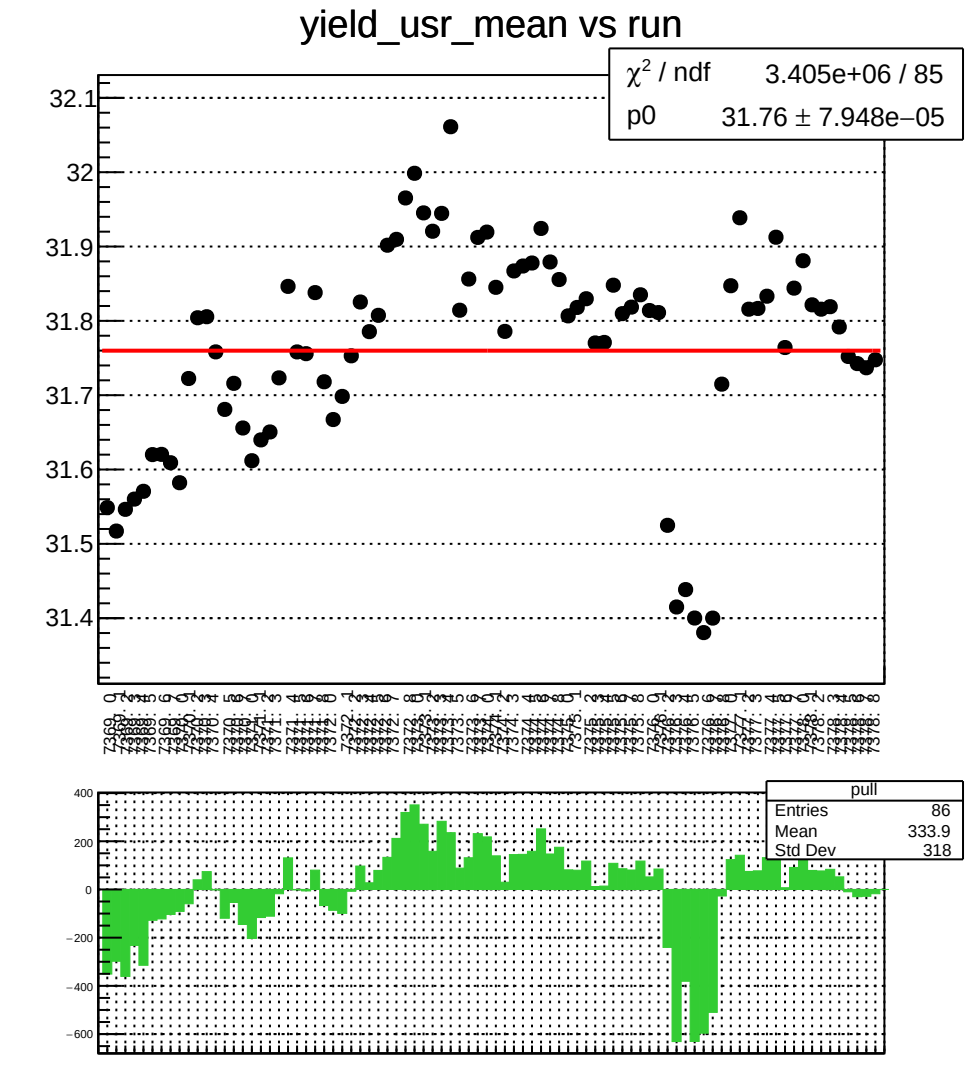

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 69.16 / 85
p0 −24.52 ± 34.43
1000
500
0
−500
−1000
pull
Entries 86
Mean −293.9
Std Dev 307
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean −0.004893
Std Dev 0.8968
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

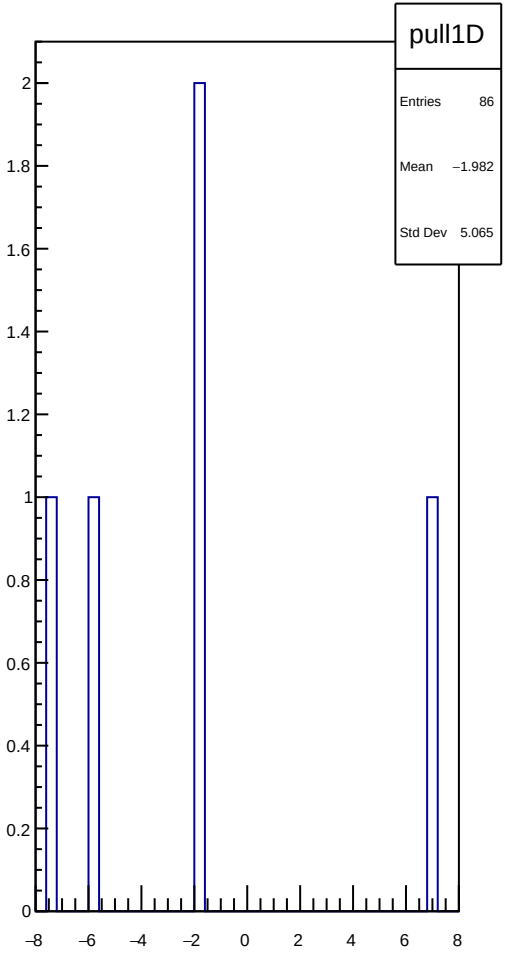

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2721 / 85
p0 31.05 ± 0.02434
36
35
34
33
32
31
30
29
28

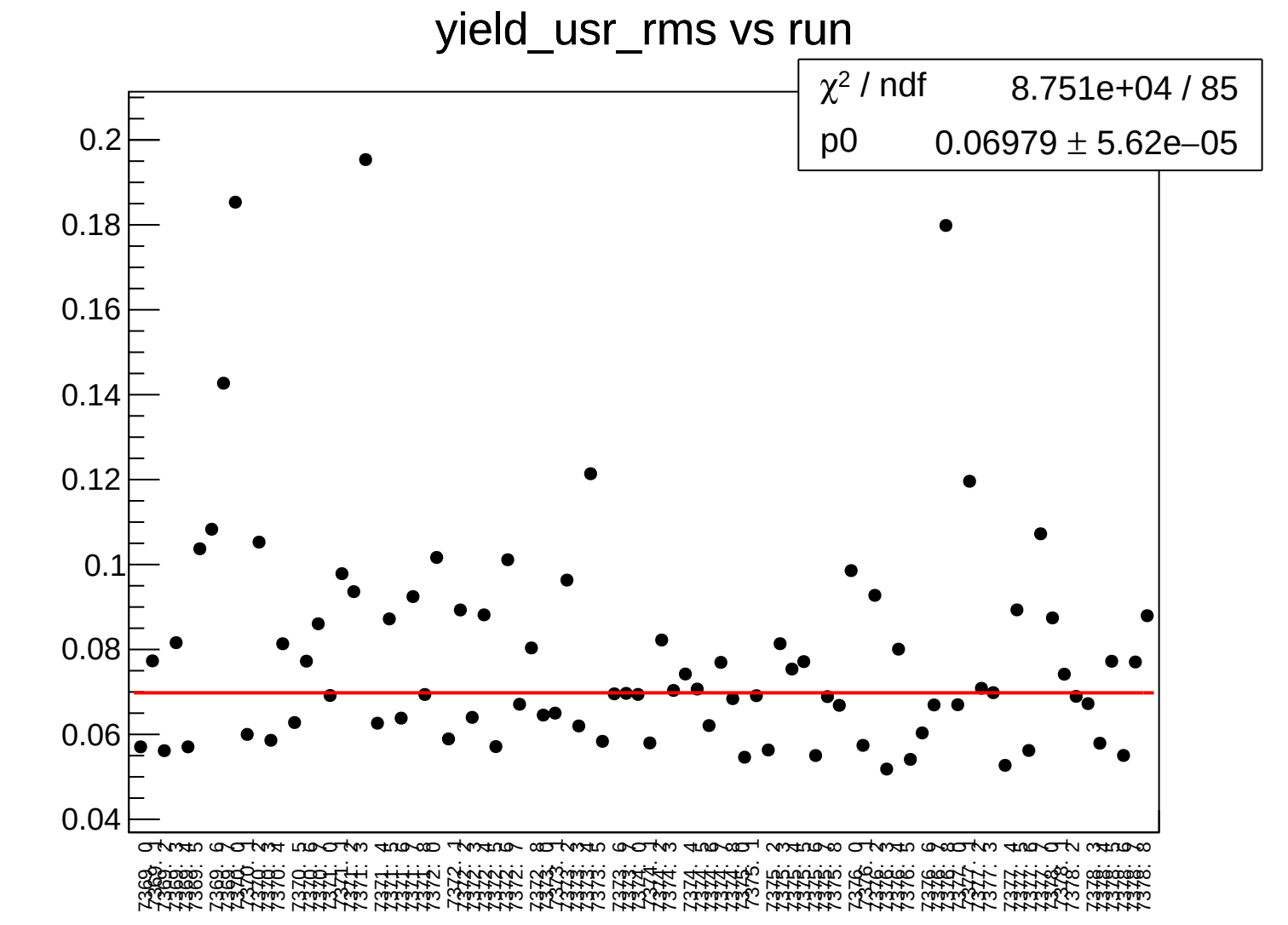

yield_usl_mean vs run
χ² / ndf 5.687e+06 / 85
p0 30.71± 8.641e−05
31.1
31
30.9
30.8
30.7
30.6
30.5
30.4
30.3
pull
Entries 86
Mean 158.4
Std Dev 128.7
600
400
200
0
−200
−400

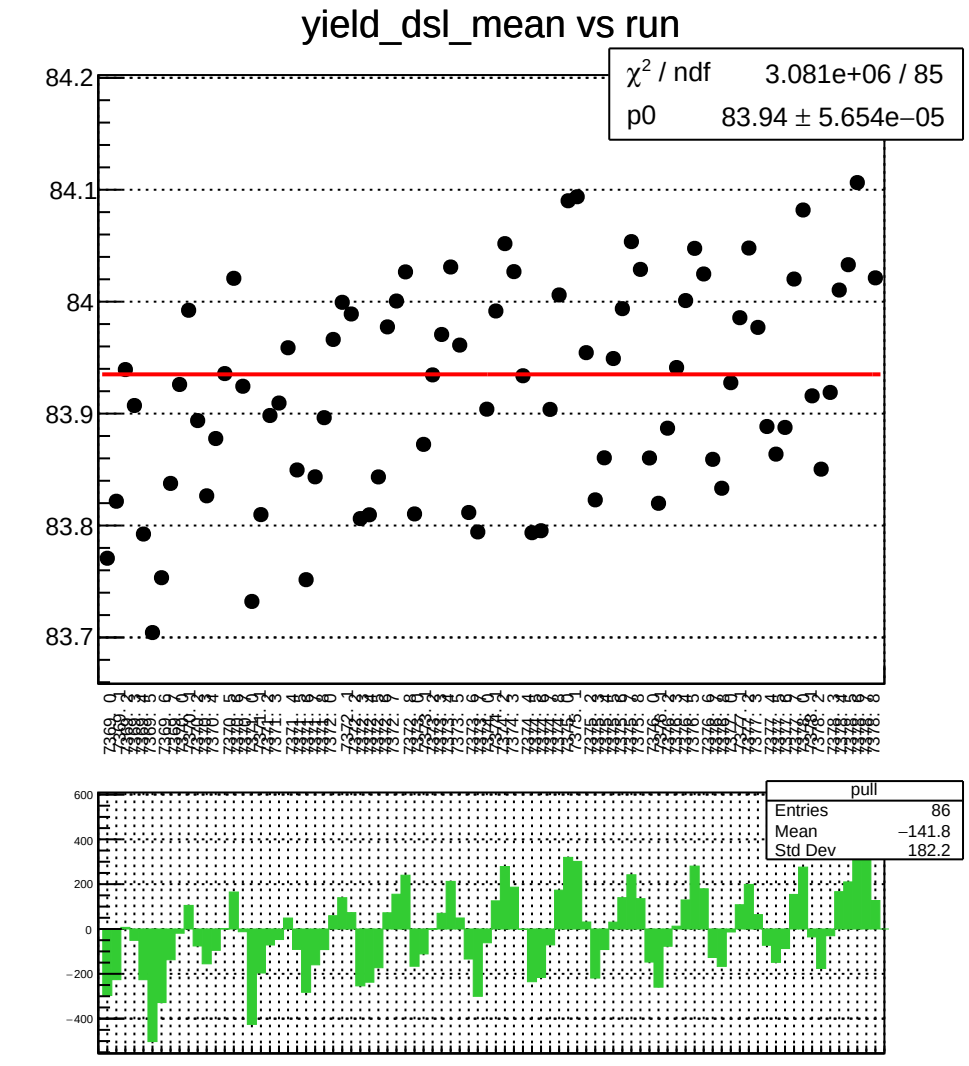

pull1D
Entries 86
Mean −5.143
Std Dev 1.491
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

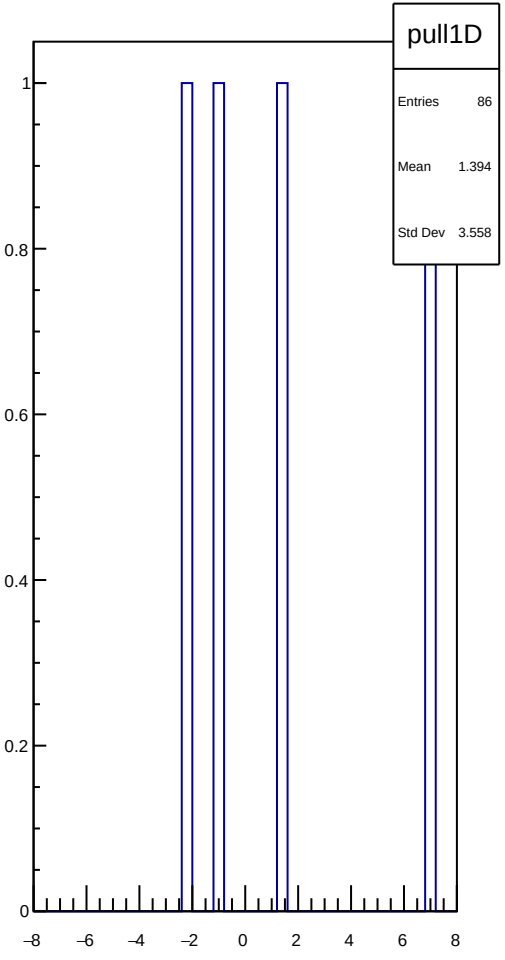

yield_usl_rms vs run
χ² / ndf 9.73e+04 / 85
p0 0.07563 ± 6.11e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

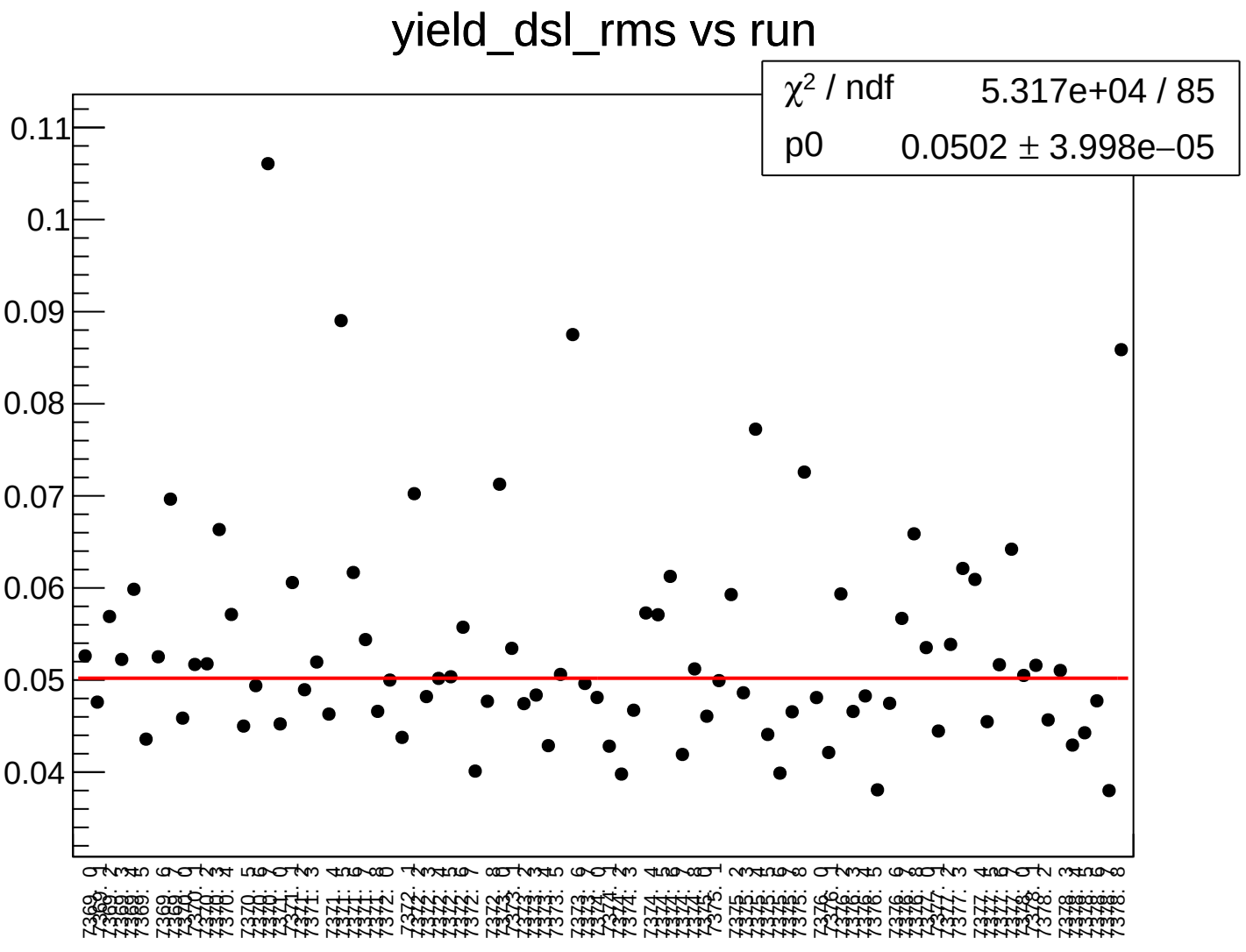

yield_usr_mean vs run
χ² / ndf 3.405e+06 / 85
p0 31.76 ± 7.948e−05
32.1
32
31.9
31.8
31.7
31.6
31.5
31.4
pull
Entries 86
Mean 333.9
Std Dev 318
400
200
0
−200
−400
−600

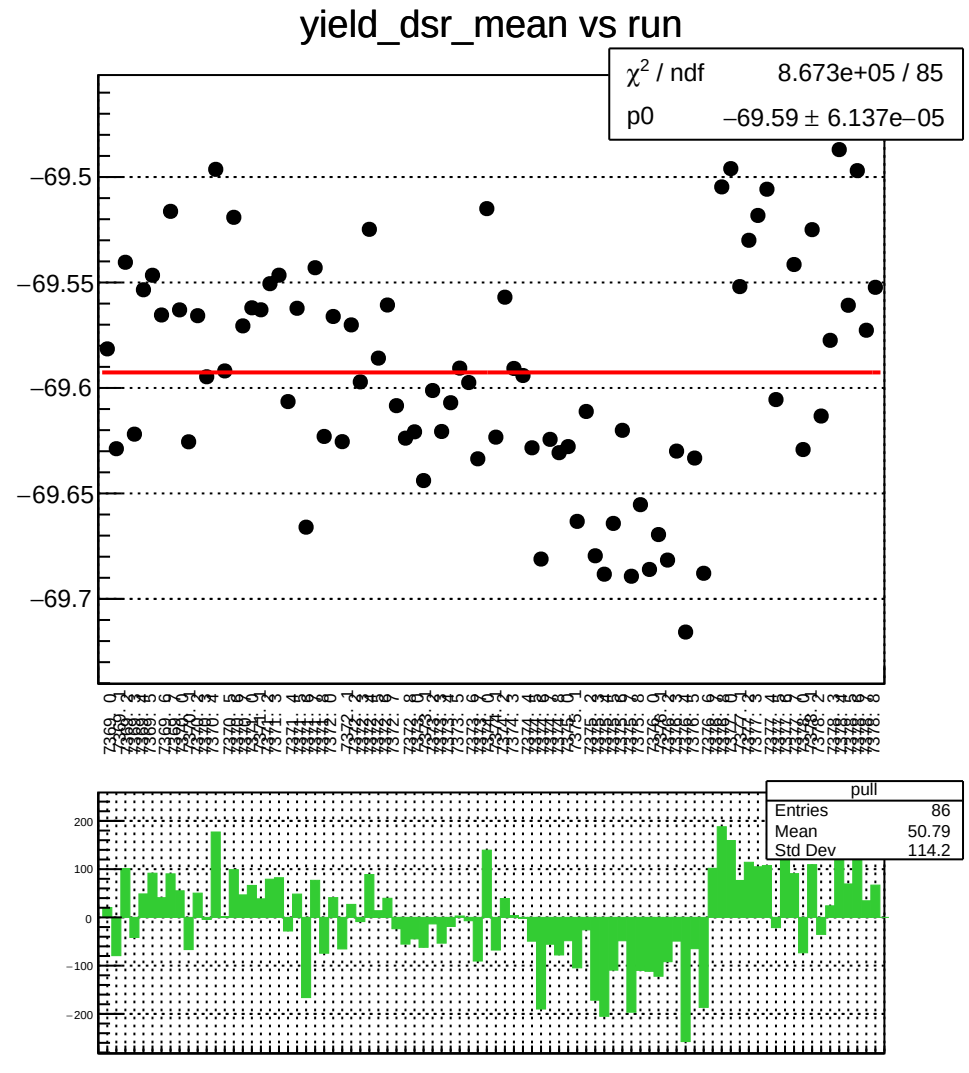

pull1D
Entries 86
Mean −1.982
Std Dev 5.065
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

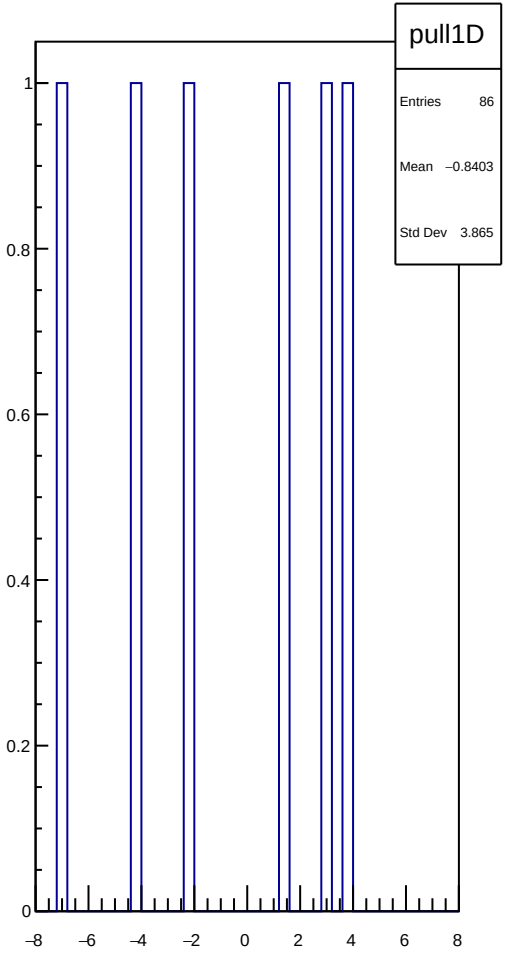

yield_usr_rms vs run
χ² / ndf 8.751e+04 / 85
p0 0.06979 ± 5.62e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

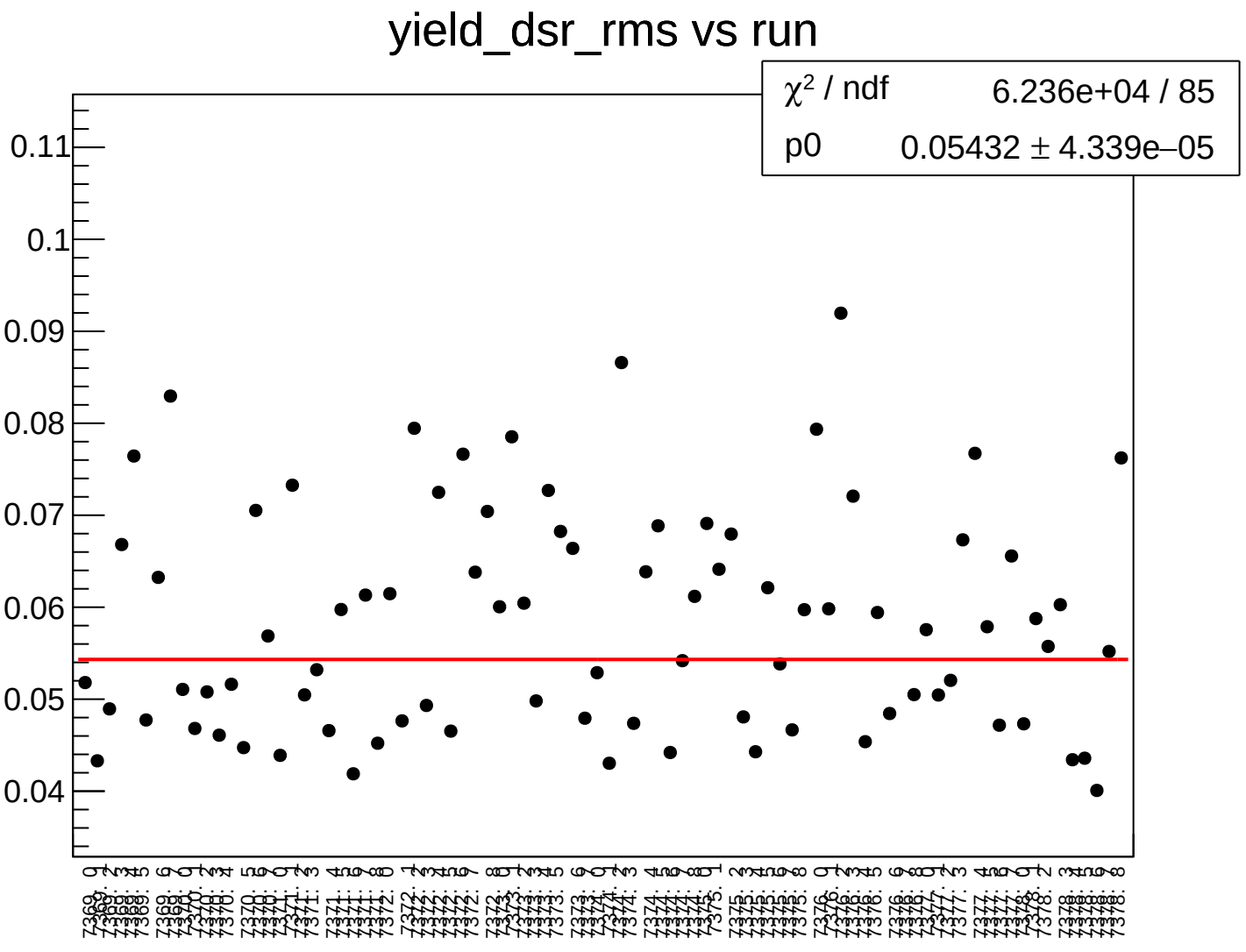

yield_dsl_mean vs run
χ² / ndf 3.081e+06 / 85
p0 83.94 ± 5.654e−05
84.2
84.1
84
83.9
83.8
83.7
pull
Entries 86
Mean −141.8
Std Dev 182.2
600
400
200
0
−200
−400

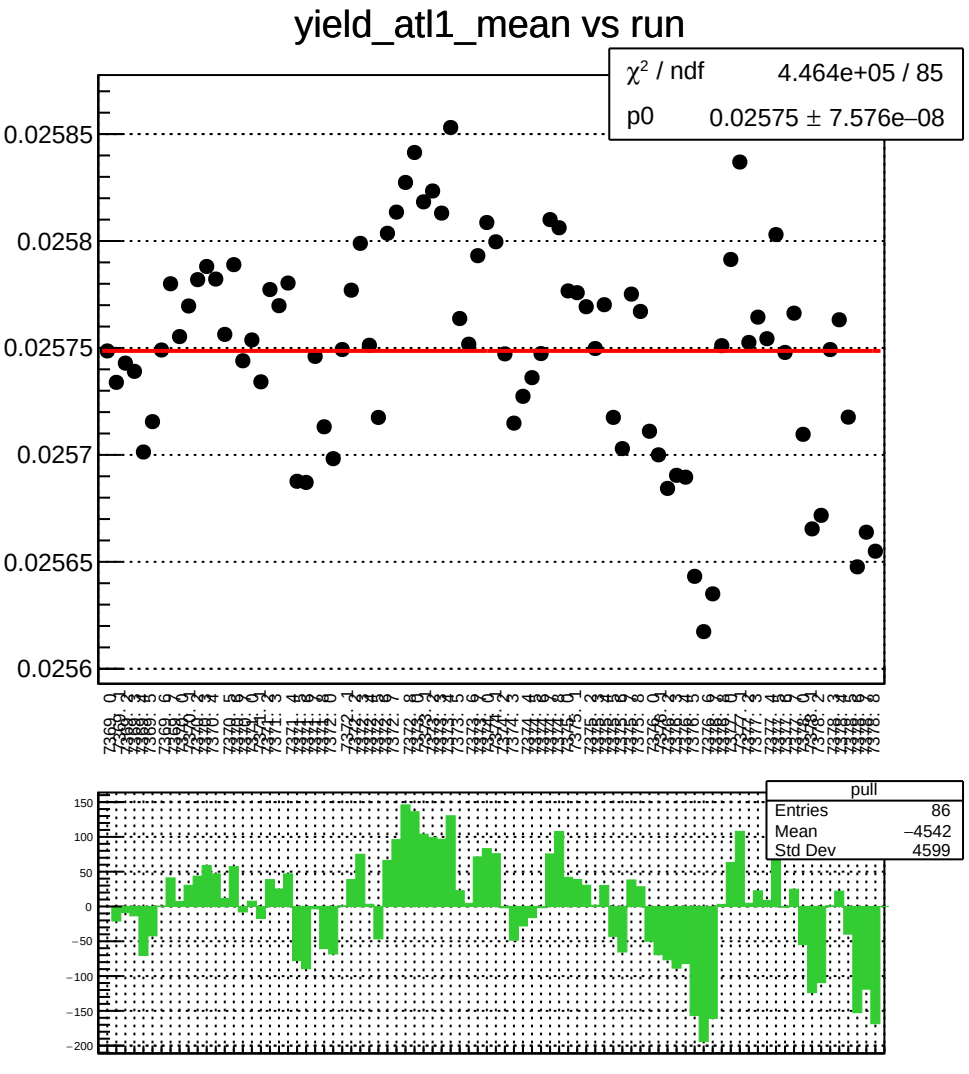

pull1D
Entries 86
Mean 1.394
Std Dev 3.558
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

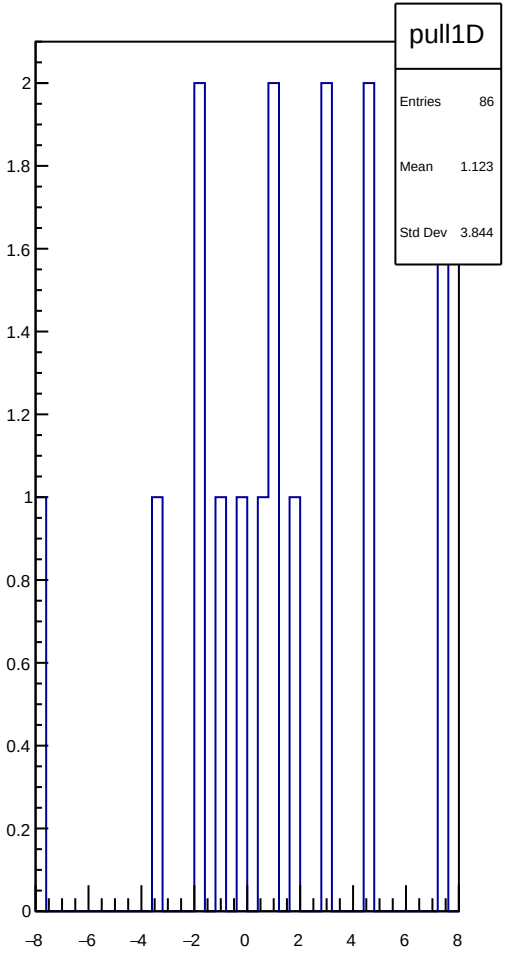

yield_dsl_rms vs run
χ² / ndf 5.317e+04 / 85
p0 0.0502 ± 3.998e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

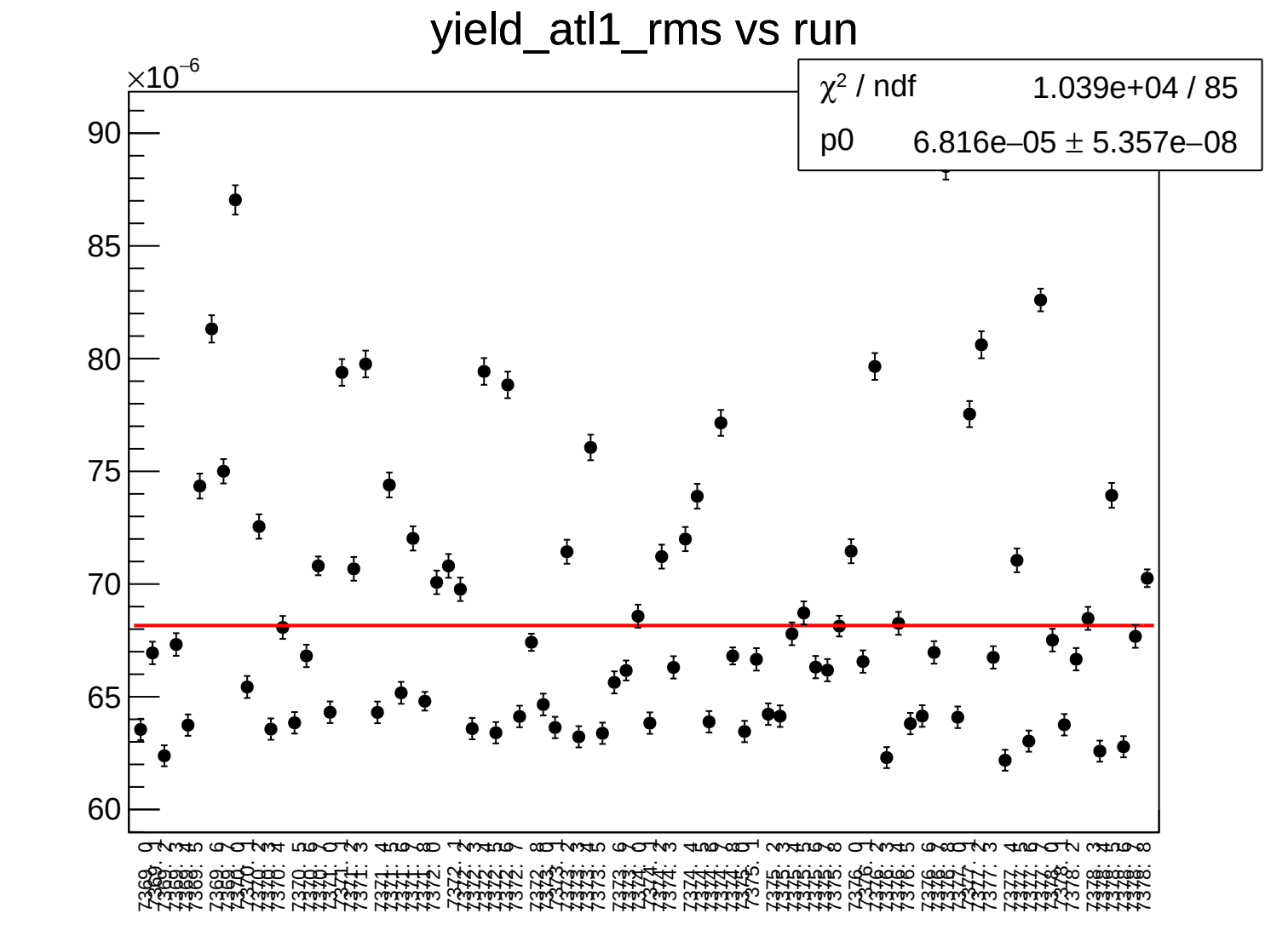

yield_dsr_mean vs run
χ² / ndf 8.673e+05 / 85
p0 −69.59 ± 6.137e−05
−69.5
−69.55
−69.6
−69.65
−69.7
pull
Entries 86
Mean 50.79
Std Dev 114.2
200
100
0
−100
−200

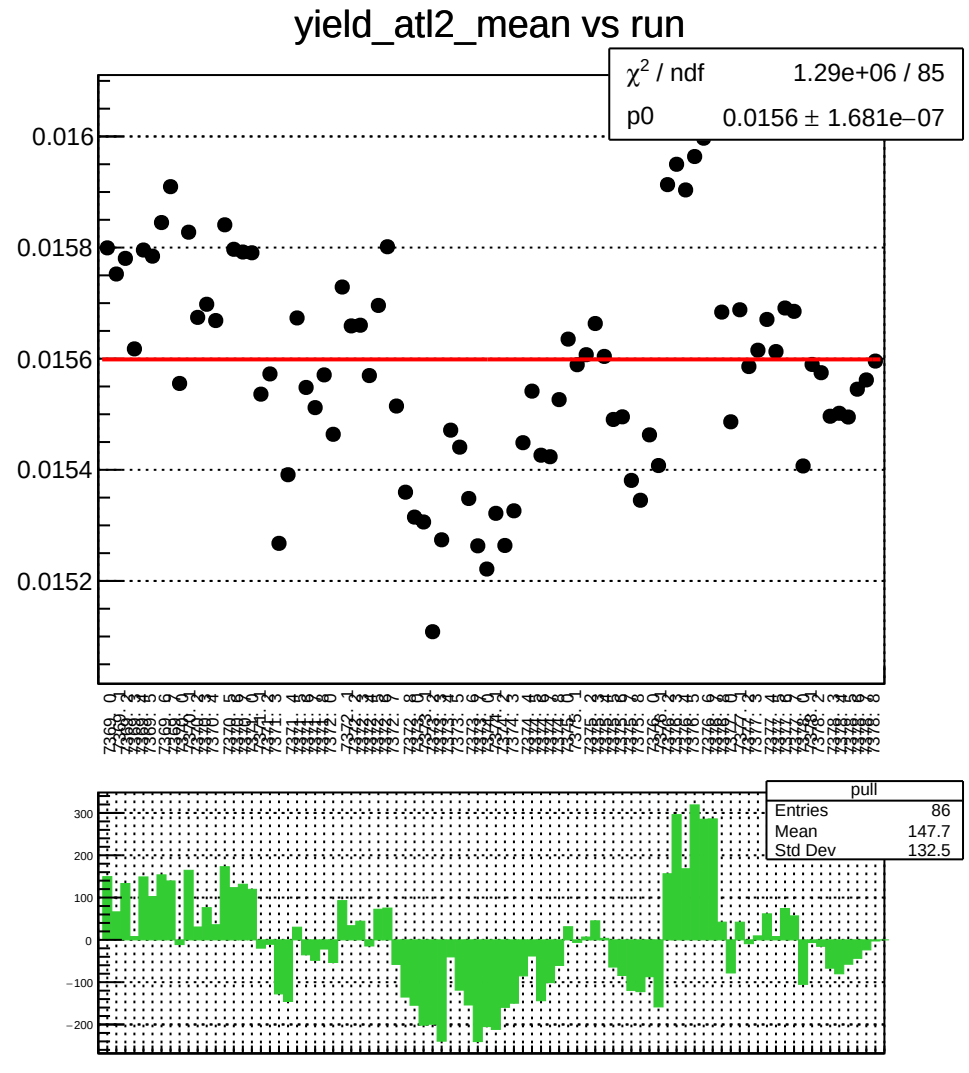

pull1D
Entries 86
Mean −0.8403
Std Dev 3.865
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

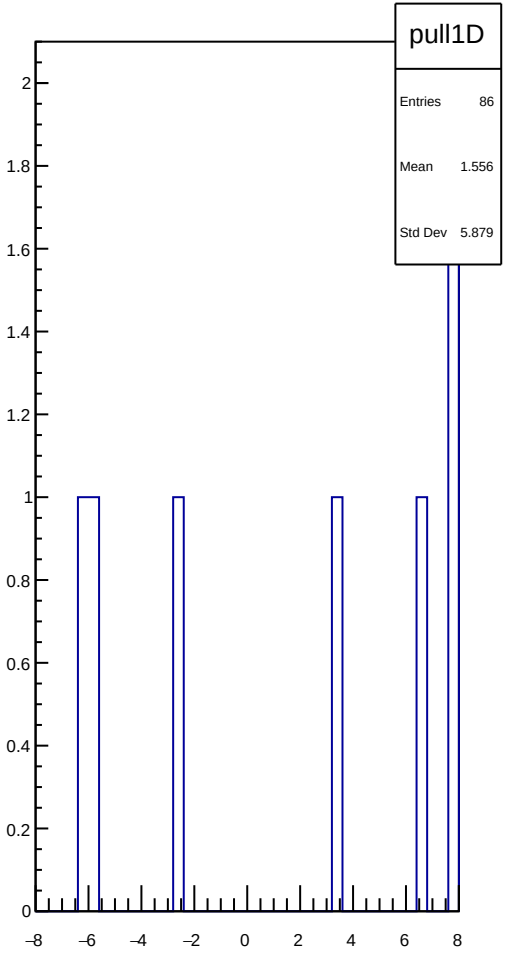

yield_dsr_rms vs run
χ² / ndf 6.236e+04 / 85
p0 0.05432 ± 4.339e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

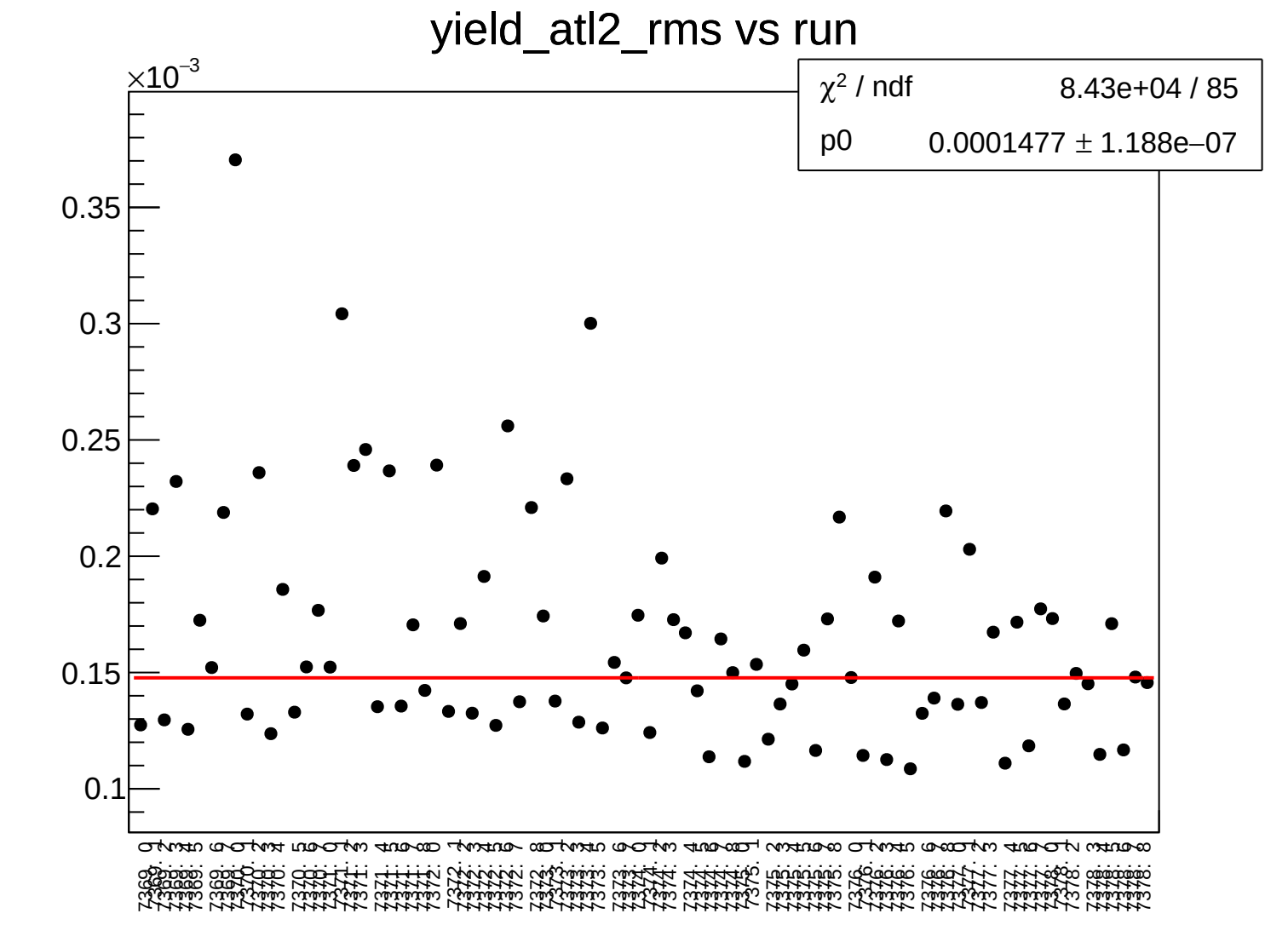

yield_atl1_mean vs run
χ² / ndf 4.464e+05 / 85
p0 0.02575 ± 7.576e−08
0.02585
0.0258
0.02575
0.0257
0.02565
0.0256
pull
Entries 86
Mean −4542
Std Dev 4599
150
100
50
0
−50
−100
−150
−200

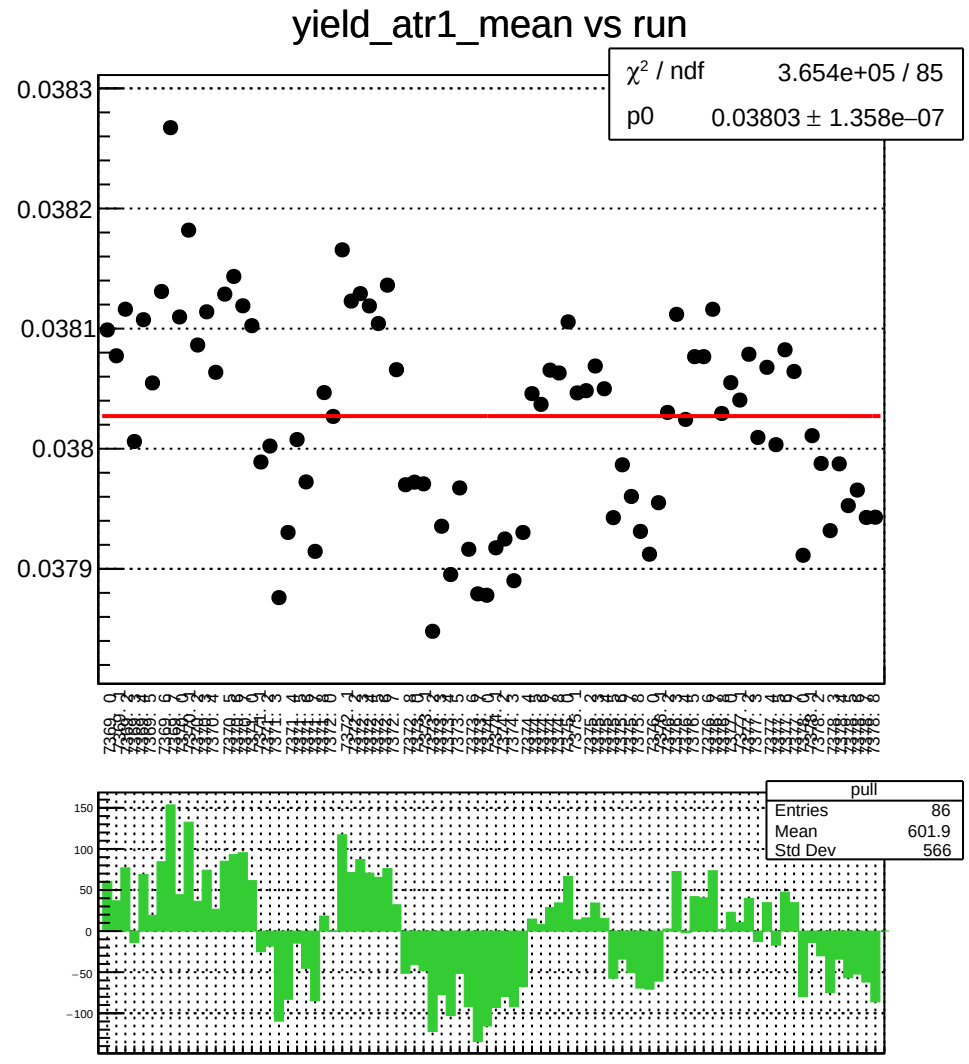

pull1D
Entries 86
Mean 1.123
Std Dev 3.844
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

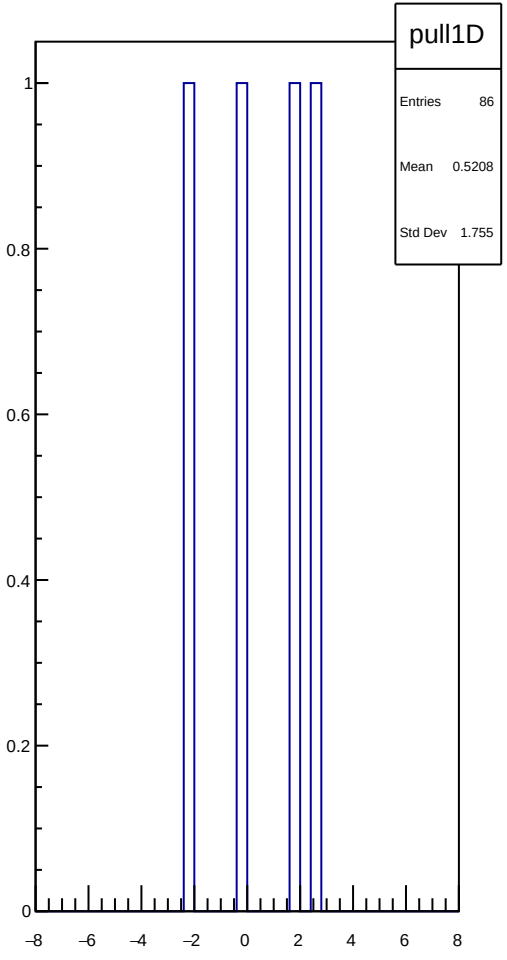

yield_atl1_rms vs run
×10⁻⁶
χ² / ndf 1.039e+04 / 85
p0 6.816e−05 ± 5.357e−08
90
85
80
75
70
65
60

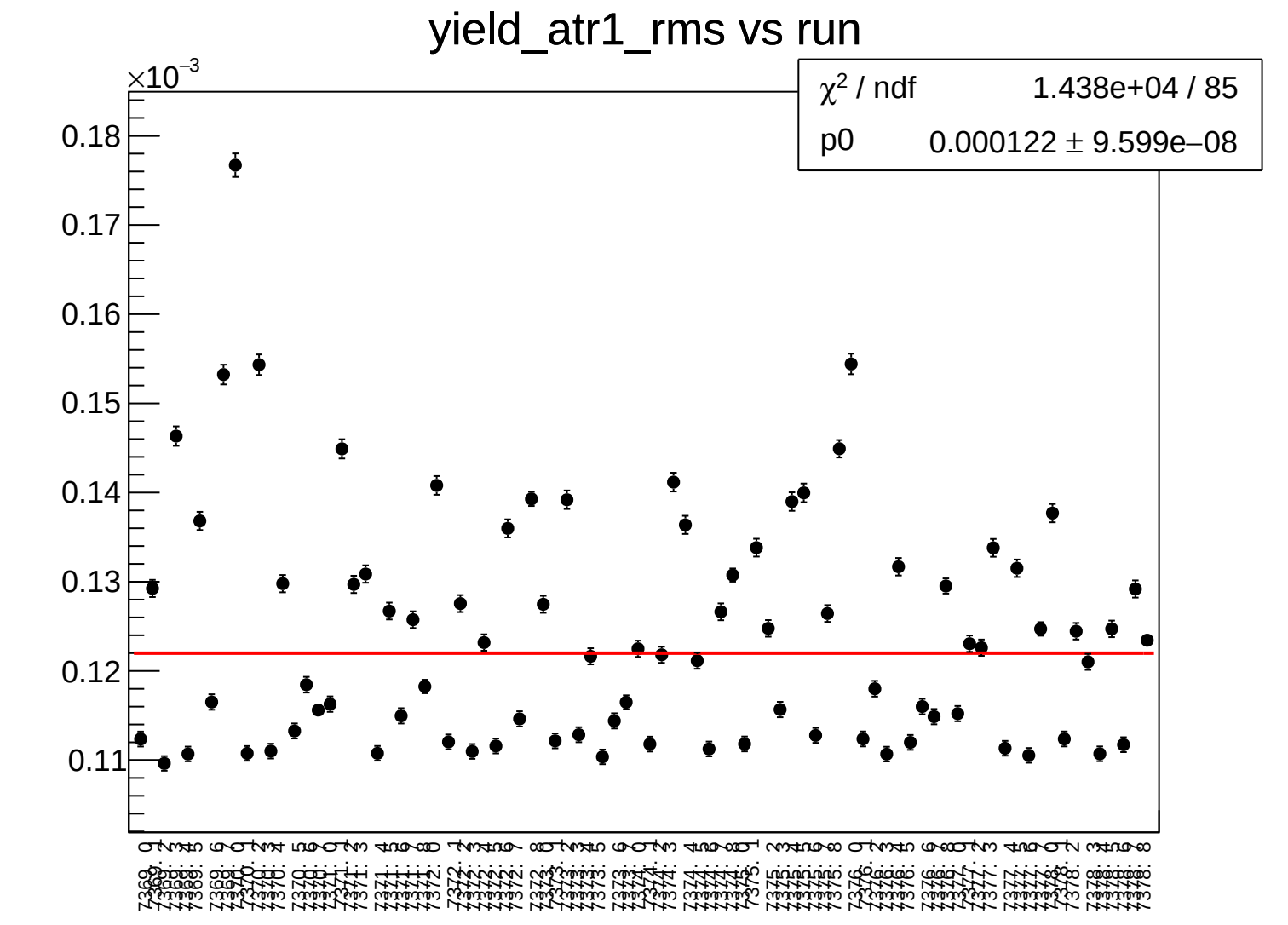

yield_atl2_mean vs run
χ² / ndf 1.29e+06 / 85
p0 0.0156 ± 1.681e−07
0.016
0.0158
0.0156
0.0154
0.0152
pull
Entries 86
Mean 147.7
Std Dev 132.5
300
200
100
0
−100
−200

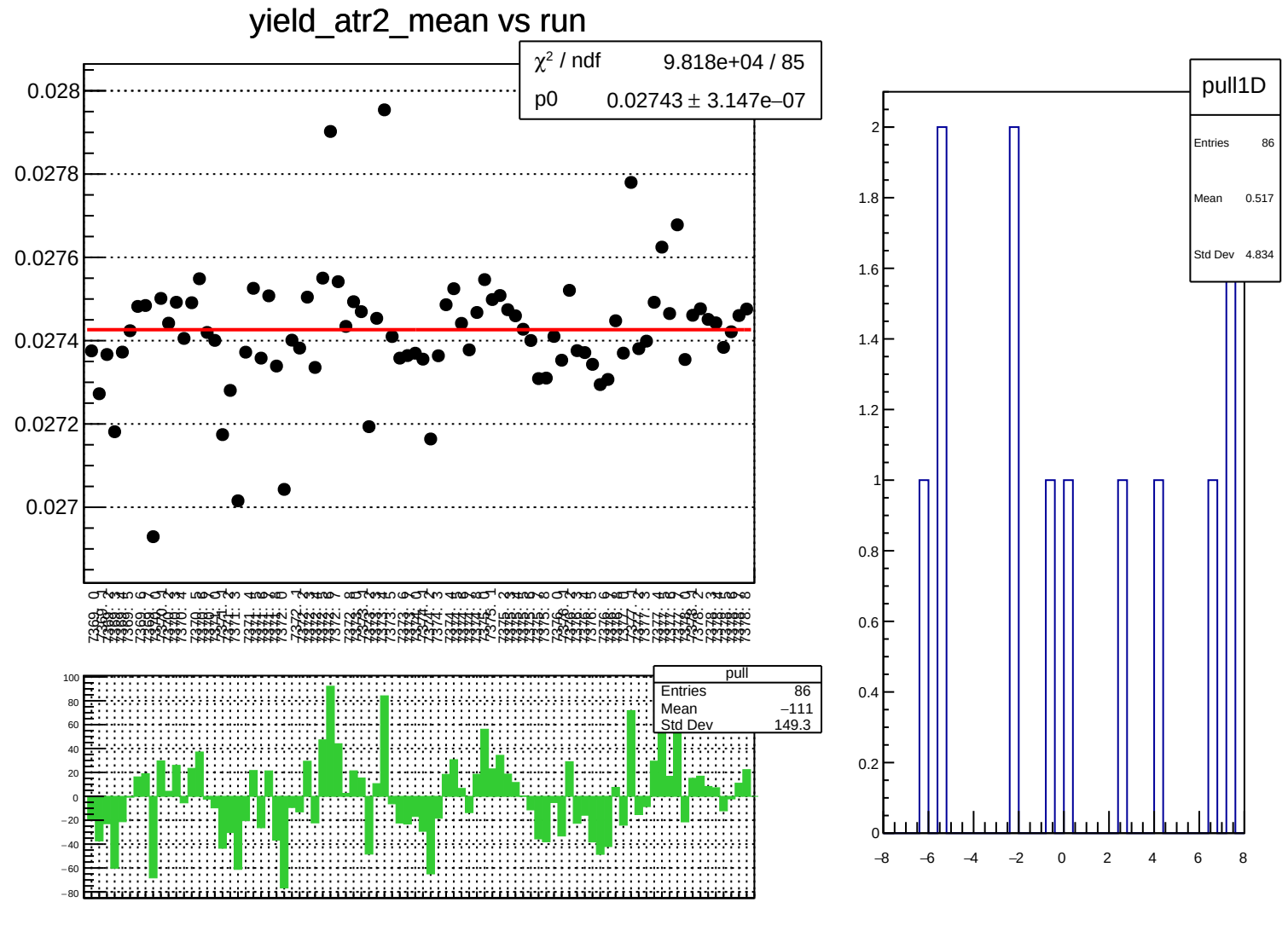

pull1D
Entries 86
Mean 1.556
Std Dev 5.879
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

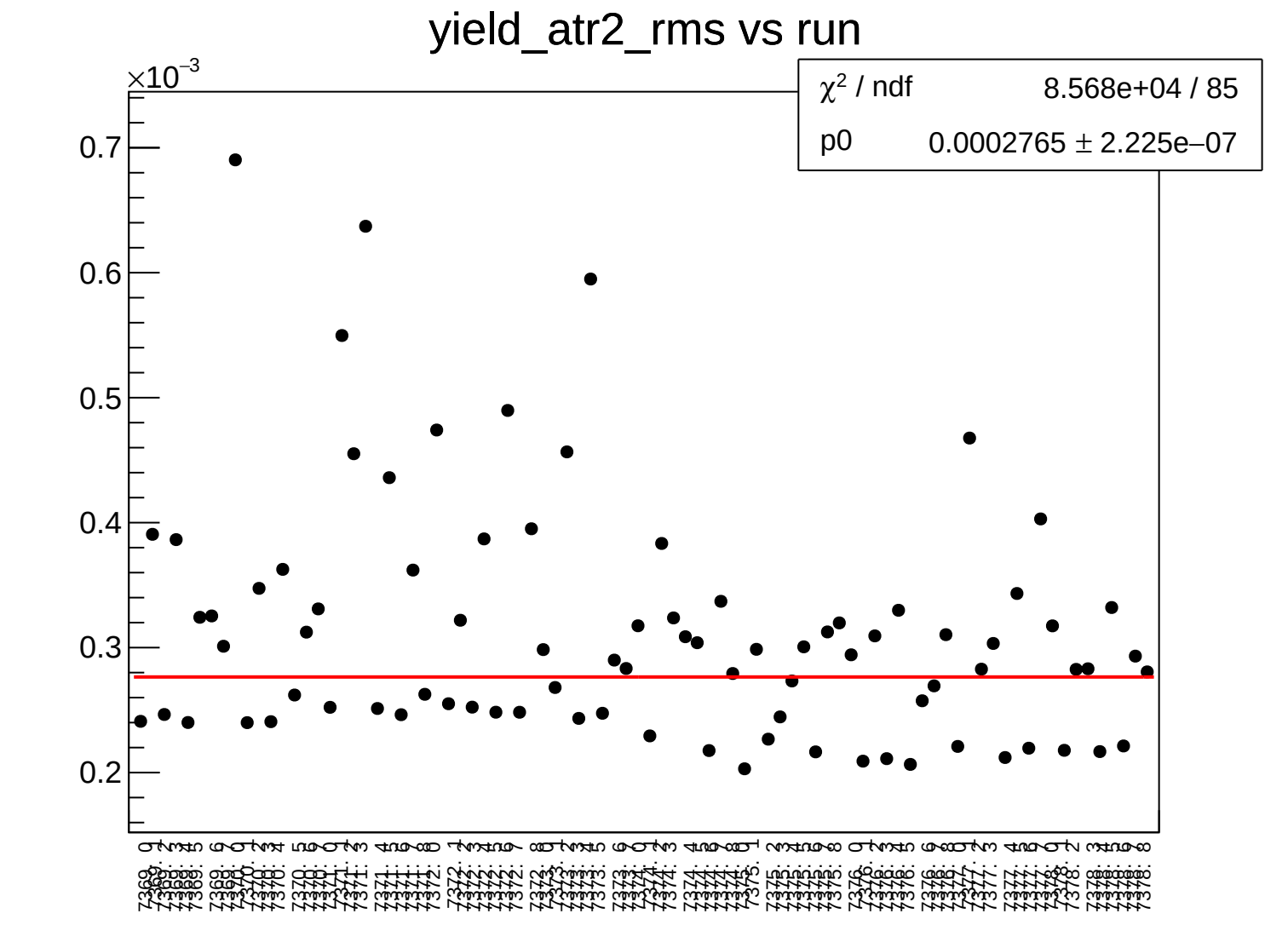

yield_atl2_rms vs run
×10⁻³
χ² / ndf 8.43e+04 / 85
p0 0.0001477 ± 1.188e−07
0.35
0.3
0.25
0.2
0.15
0.1

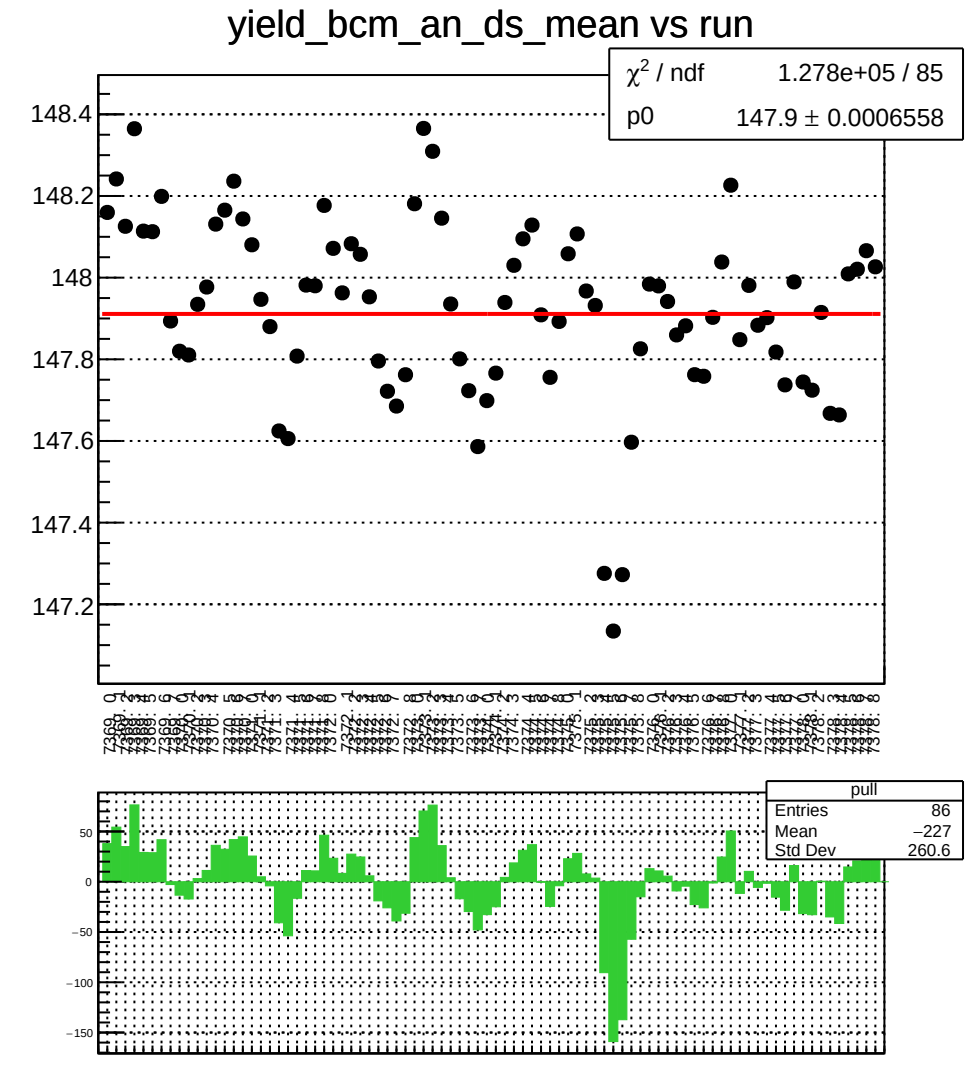

yield_atr1_mean vs run
χ² / ndf 3.654e+05 / 85
p0 0.03803 ± 1.358e−07
0.0383
0.0382
0.0381
0.038
0.0379
pull
Entries 86
Mean 601.9
Std Dev 566
150
100
50
0
−50
−100

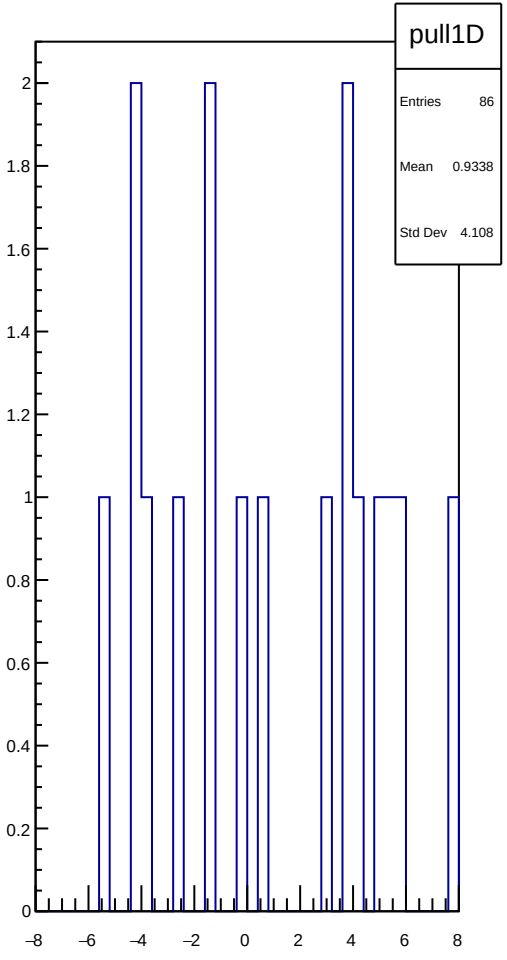

pull1D
Entries 86
Mean 0.5208
Std Dev 1.755
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

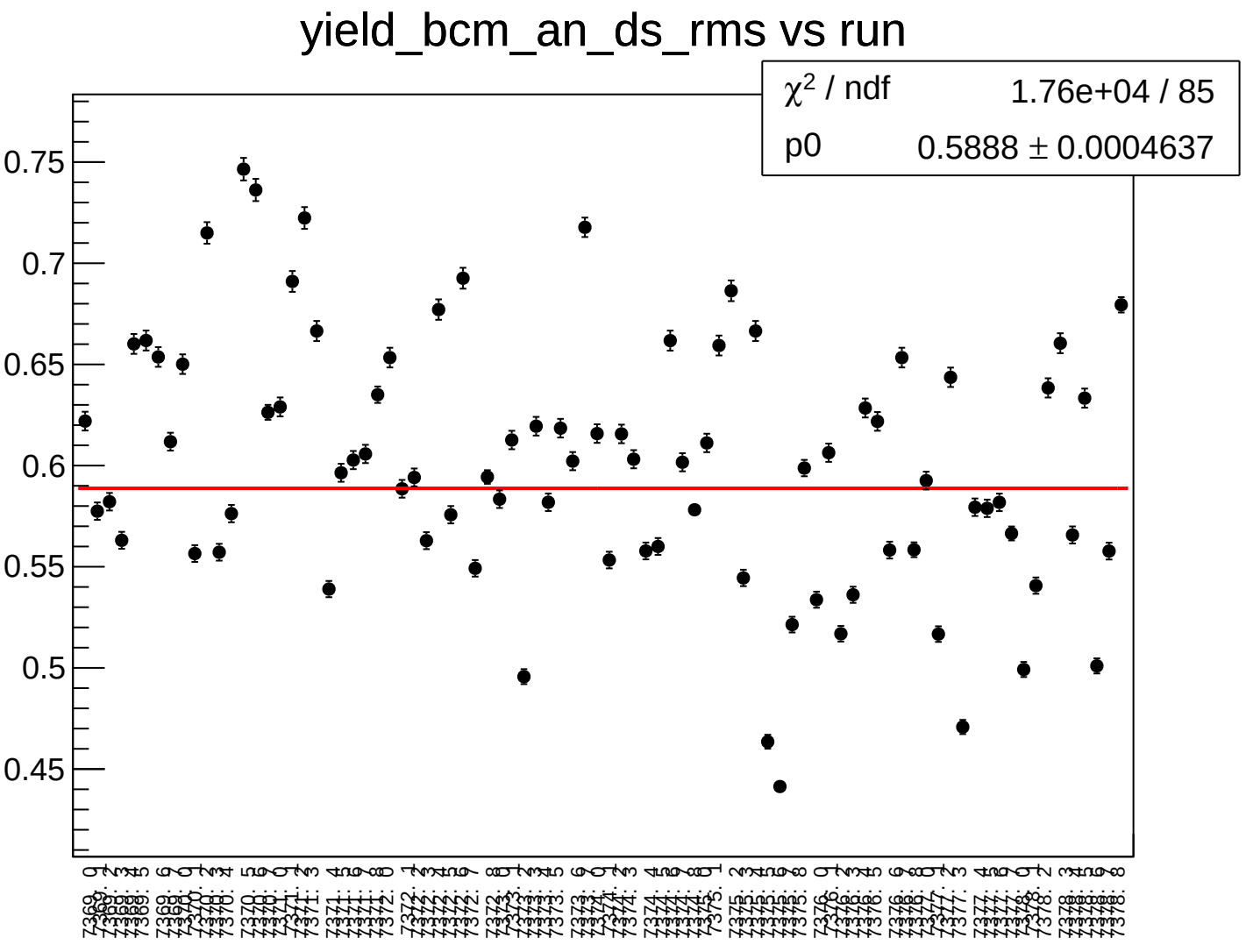

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.438e+04 / 85
p0 0.000122 ± 9.599e−08
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11

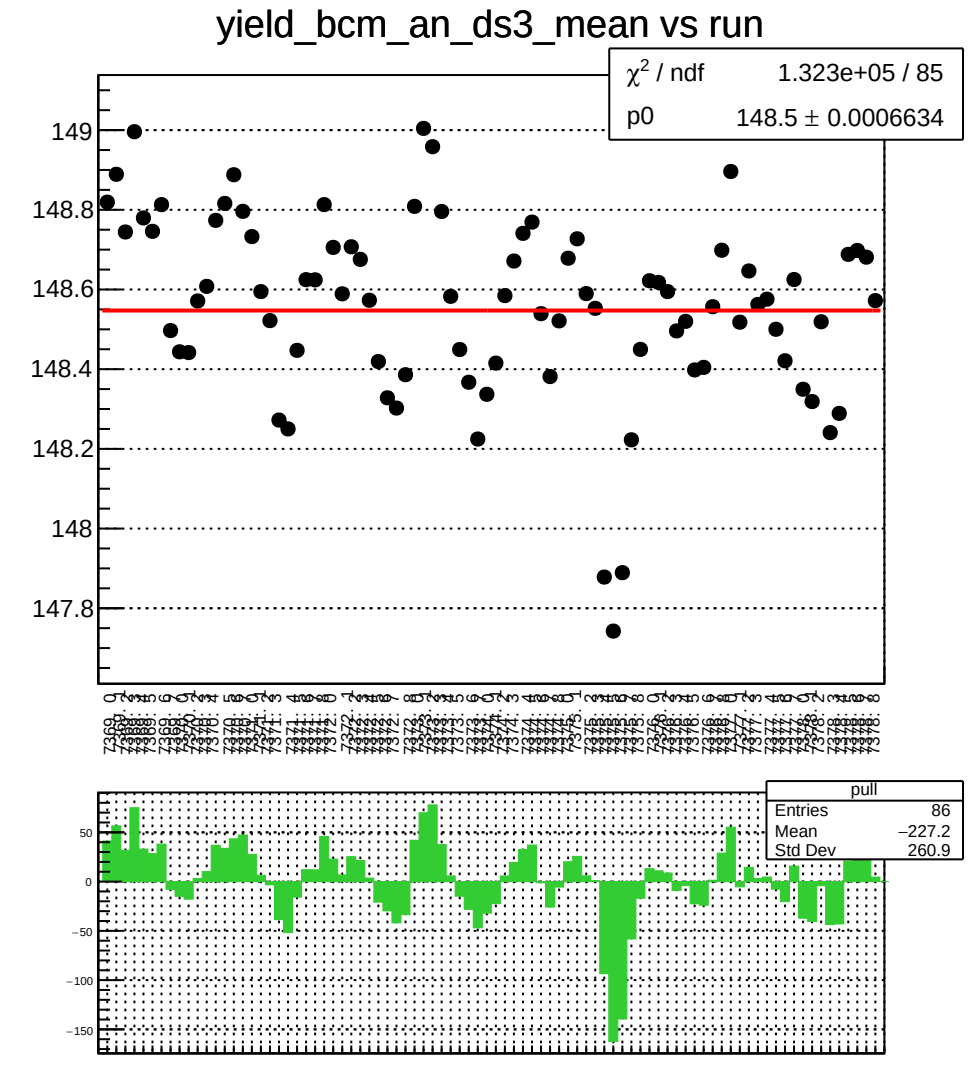

yield_atr2_mean vs run
χ² / ndf 9.818e+04 / 85
p0 0.02743 ± 3.147e−07
0.028
0.0278
0.0276
0.0274
0.0272
0.027
pull
Entries 86
Mean −111
Std Dev 149.3
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 86
Mean 0.517
Std Dev 4.834
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

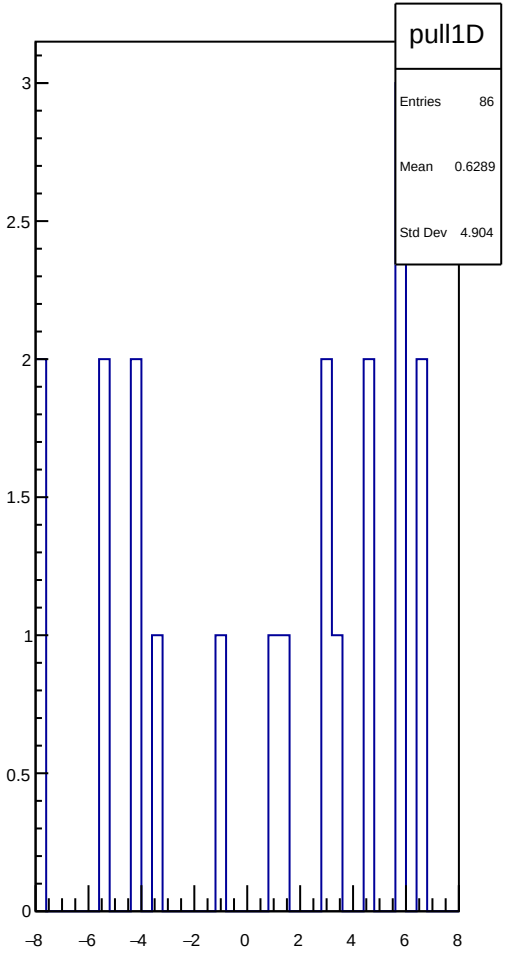

yield_atr2_rms vs run
×10⁻³
χ² / ndf 8.568e+04 / 85
p0 0.0002765 ± 2.225e−07
0.7
0.6
0.5
0.4
0.3
0.2

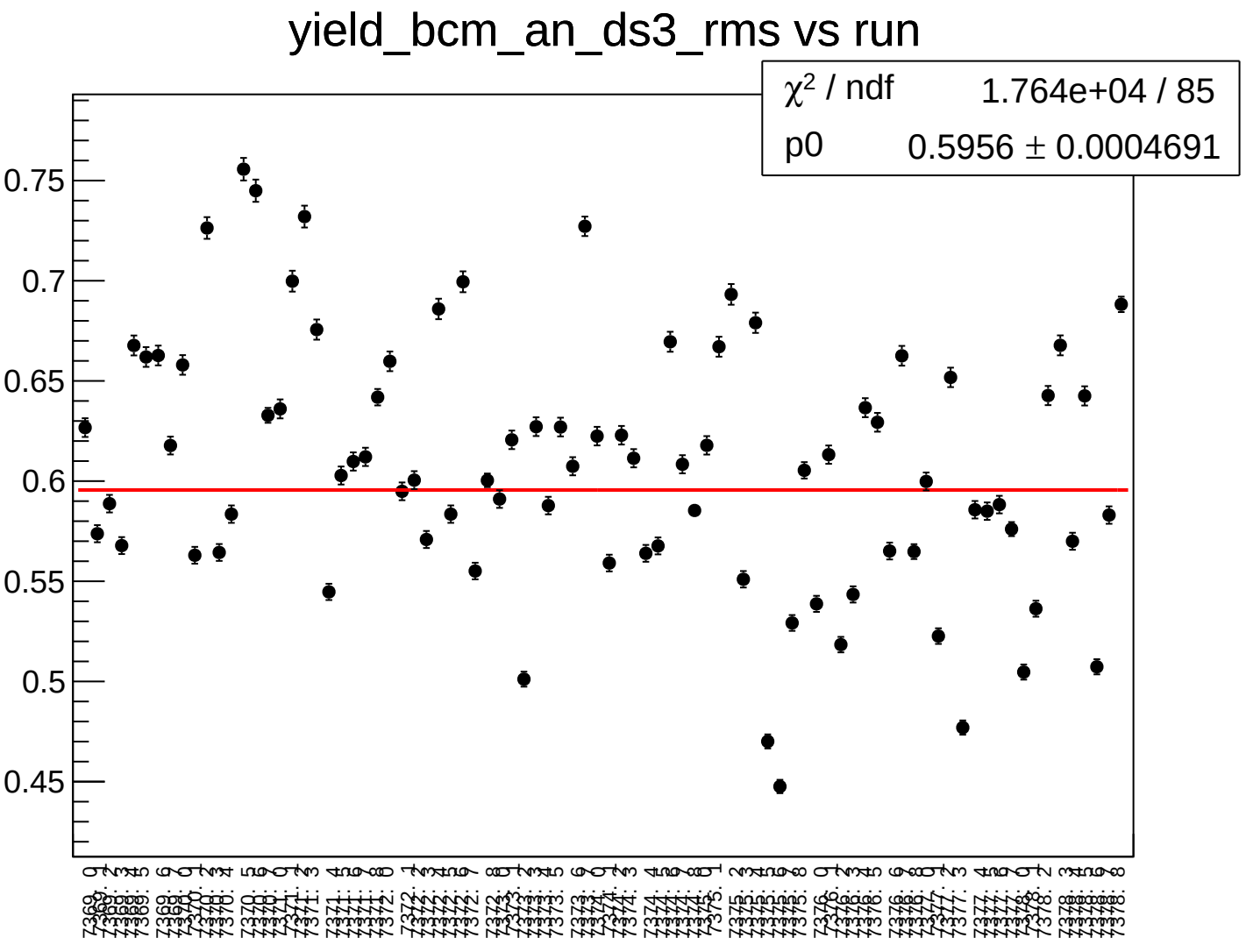

yield_bcm_an_ds_mean vs run
χ² / ndf 1.278e+05 / 85
p0 147.9 ± 0.0006558
148.4
148.2
148
147.8
147.6
147.4
147.2
pull
Entries 86
Mean −227
Std Dev 260.6
50
0
−50
−100
−150

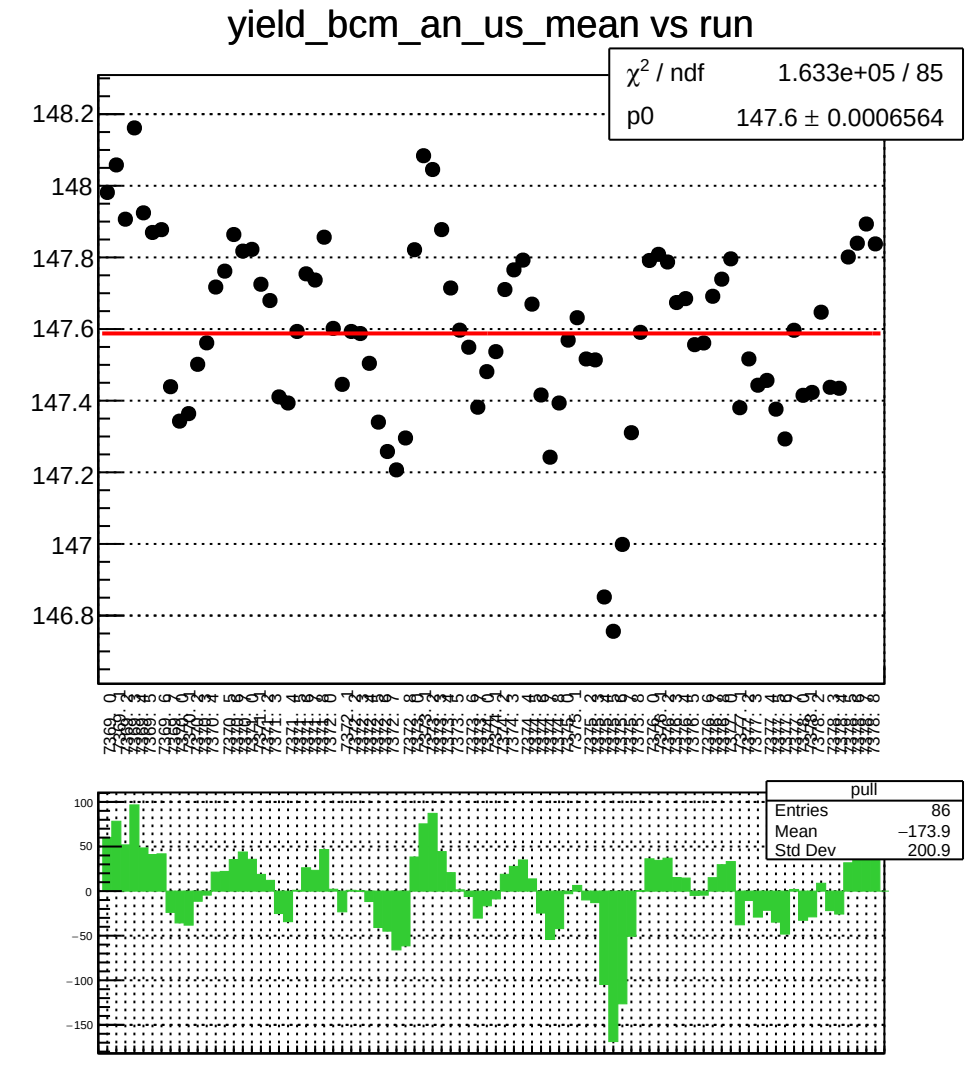

pull1D
Entries 86
Mean 0.9338
Std Dev 4.108
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

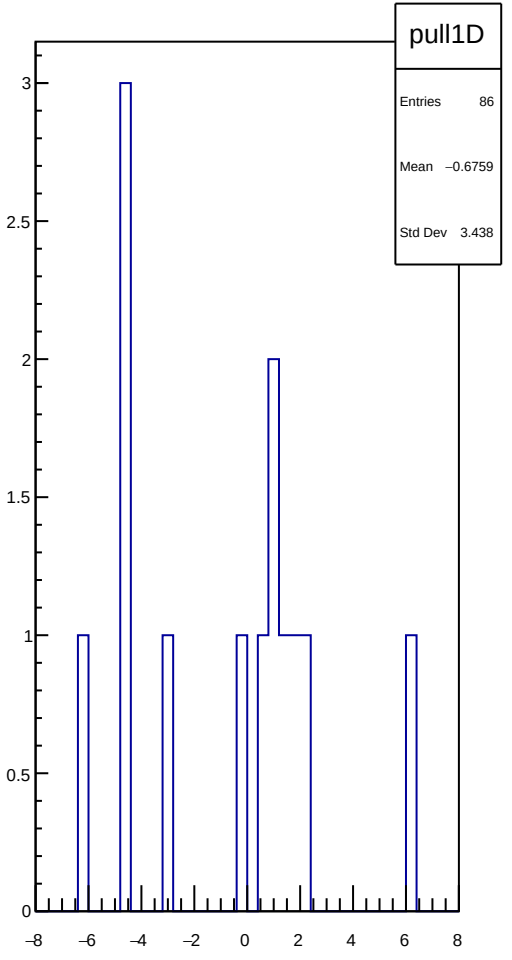

yield_bcm_an_ds_rms vs run
χ² / ndf 1.76e+04 / 85
p0 0.5888 ± 0.0004637
0.75
0.7
0.65
0.6
0.55
0.5
0.45

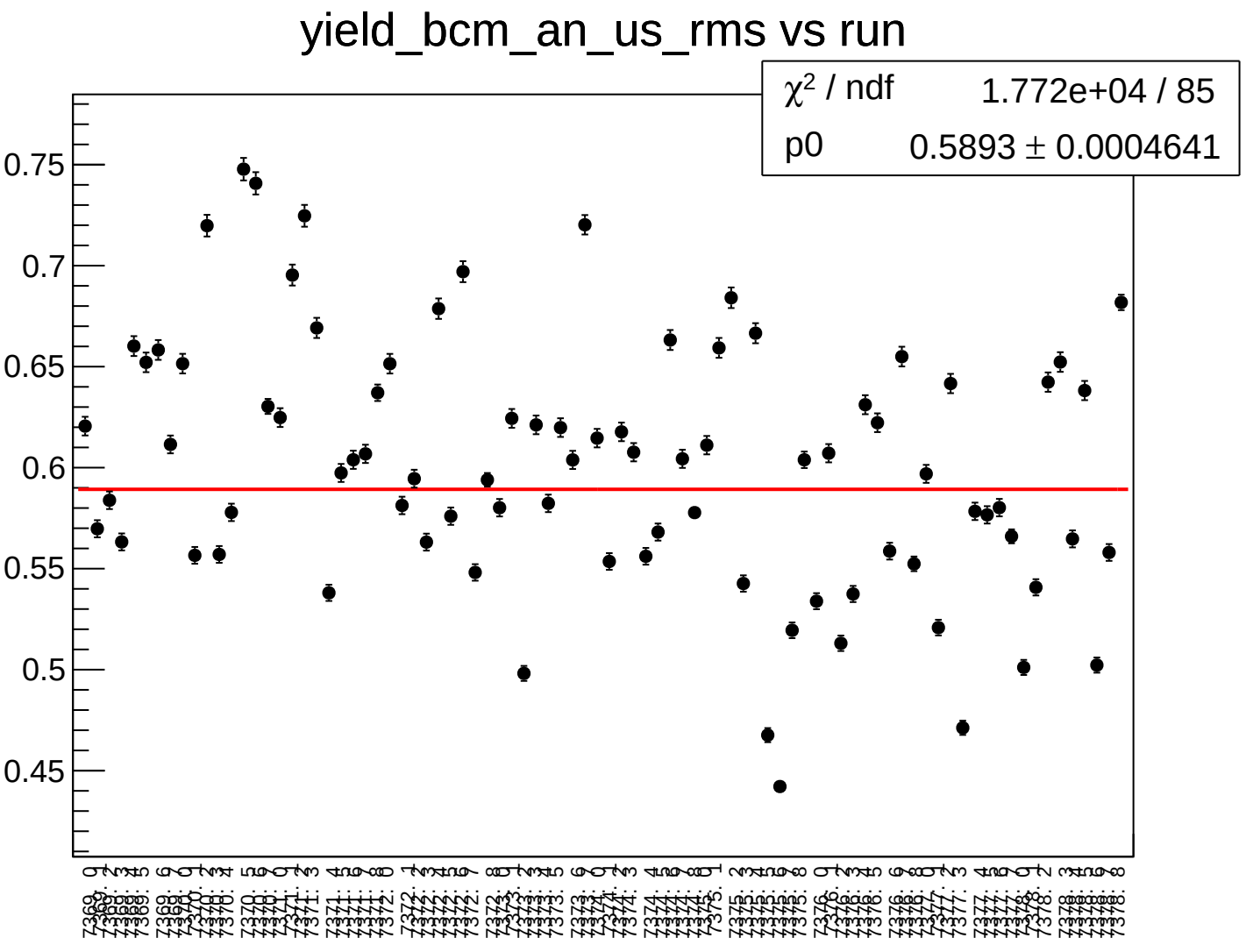

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.323e+05 / 85
p0 148.5 ± 0.0006634
149
148.8
148.6
148.4
148.2
148
147.8
pull
Entries 86
Mean −227.2
Std Dev 260.9
50
0
−50
−100
−150

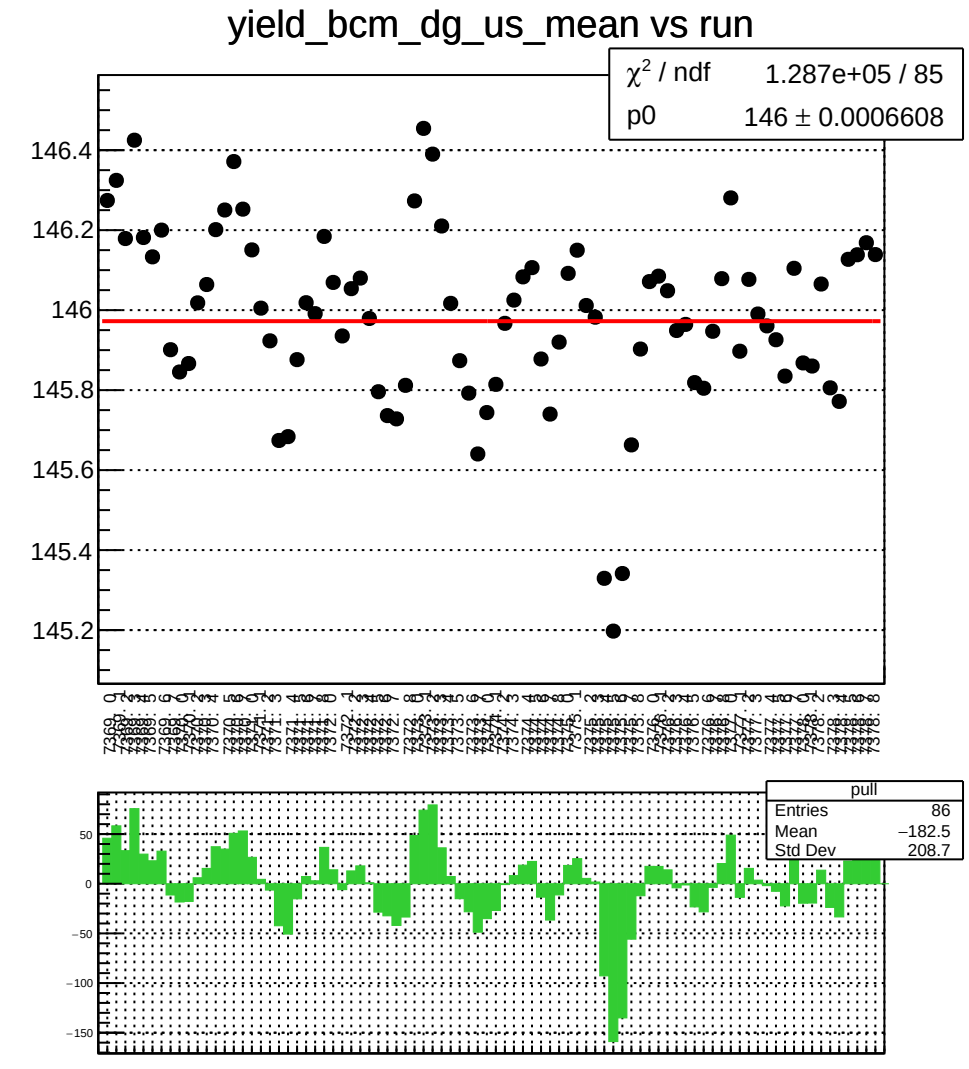

pull1D
Entries 86
Mean 0.6289
Std Dev 4.904
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

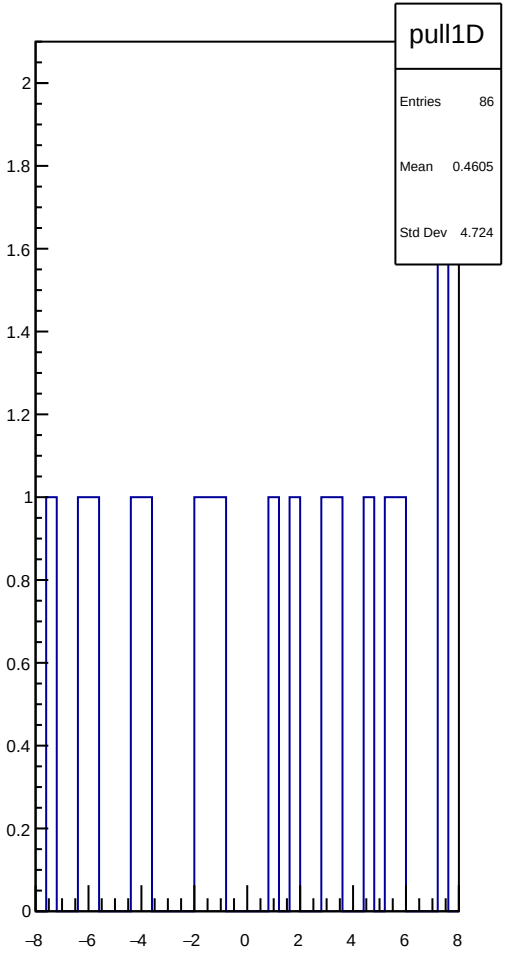

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.764e+04 / 85
p0 0.5956 ± 0.0004691
0.75
0.7
0.65
0.6
0.55
0.5
0.45

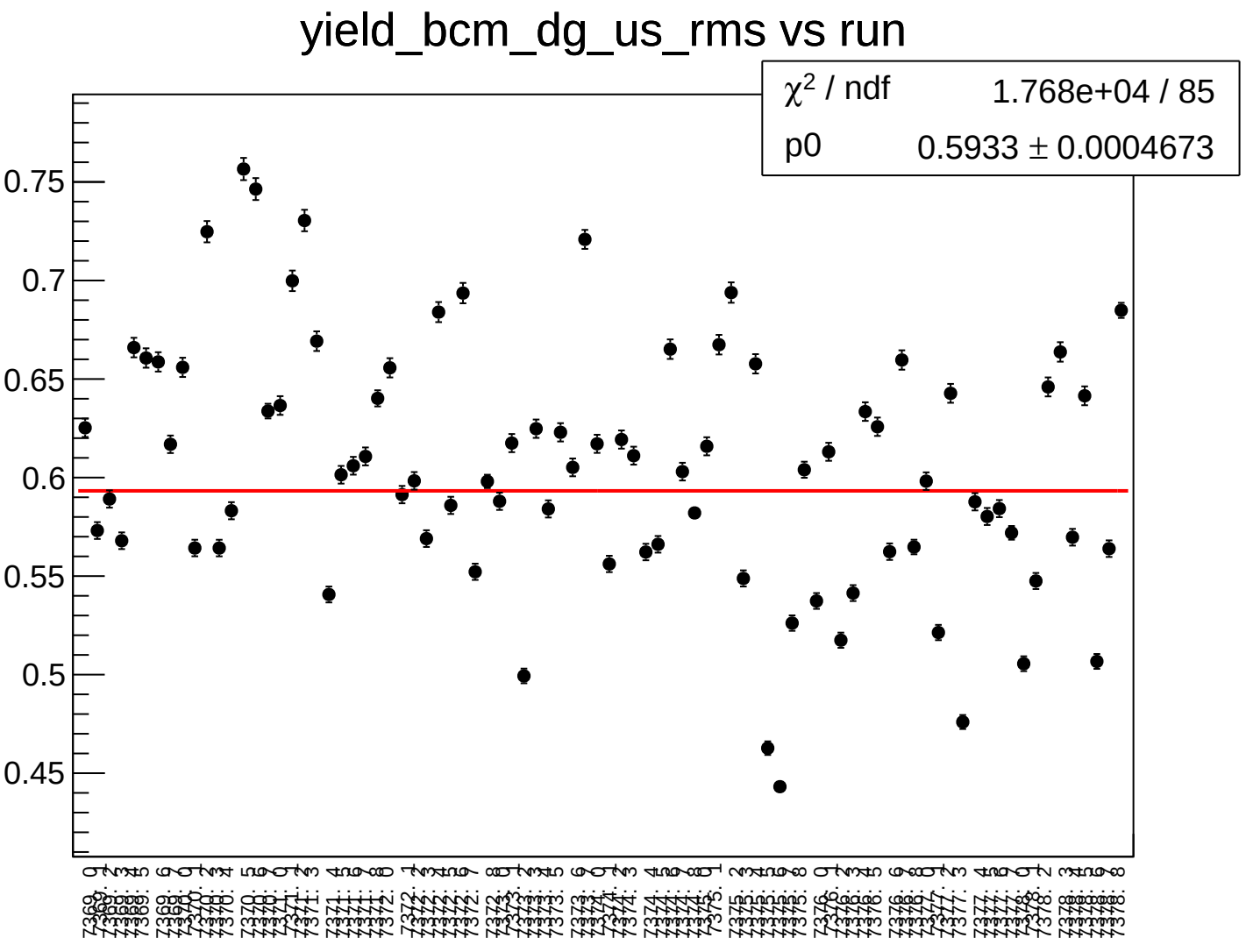

yield_bcm_an_us_mean vs run
χ² / ndf 1.633e+05 / 85
p0 147.6 ± 0.0006564
148.2
148
147.8
147.6
147.4
147.2
147
146.8
pull
Entries 86
Mean −173.9
Std Dev 200.9
100
50
0
−50
−100
−150

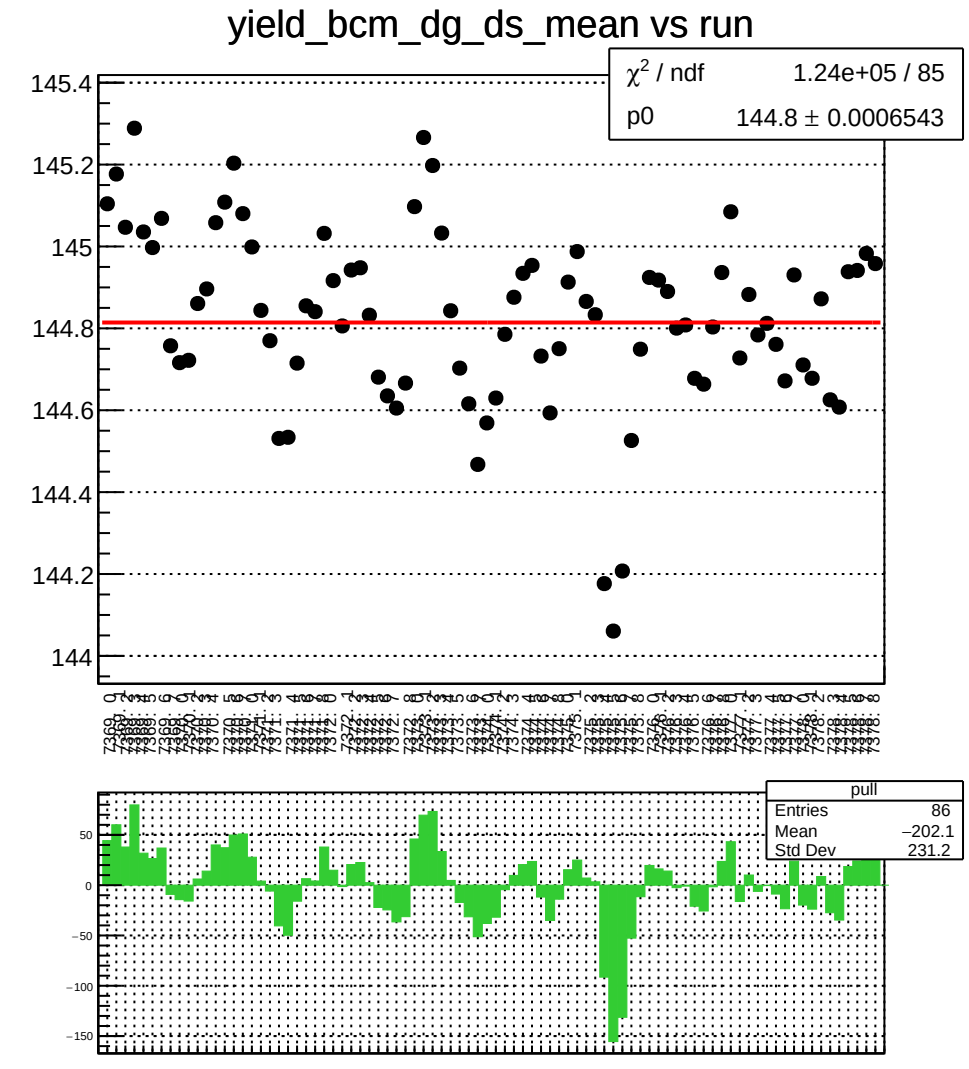

pull1D
Entries 86
Mean −0.6759
Std Dev 3.438
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

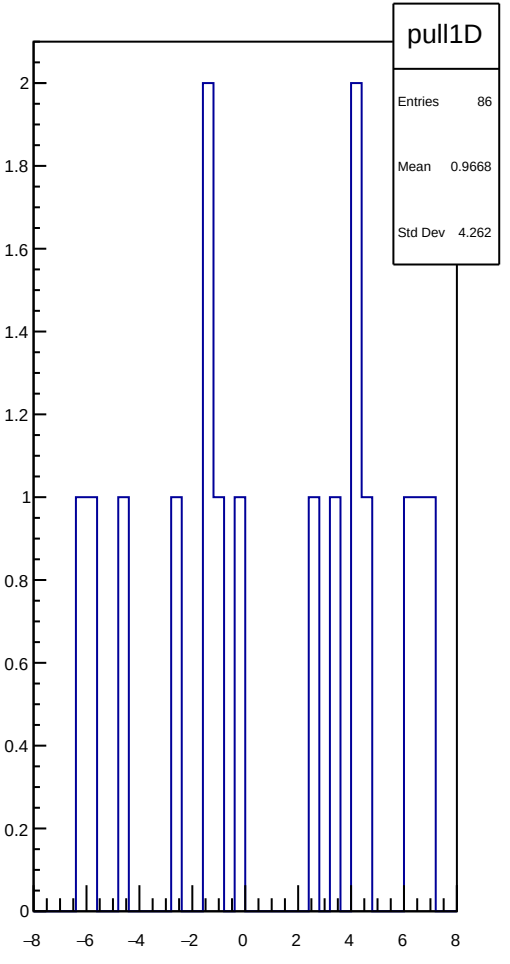

yield_bcm_an_us_rms vs run
χ² / ndf 1.772e+04 / 85
p0 0.5893 ± 0.0004641
0.75
0.7
0.65
0.6
0.55
0.5
0.45

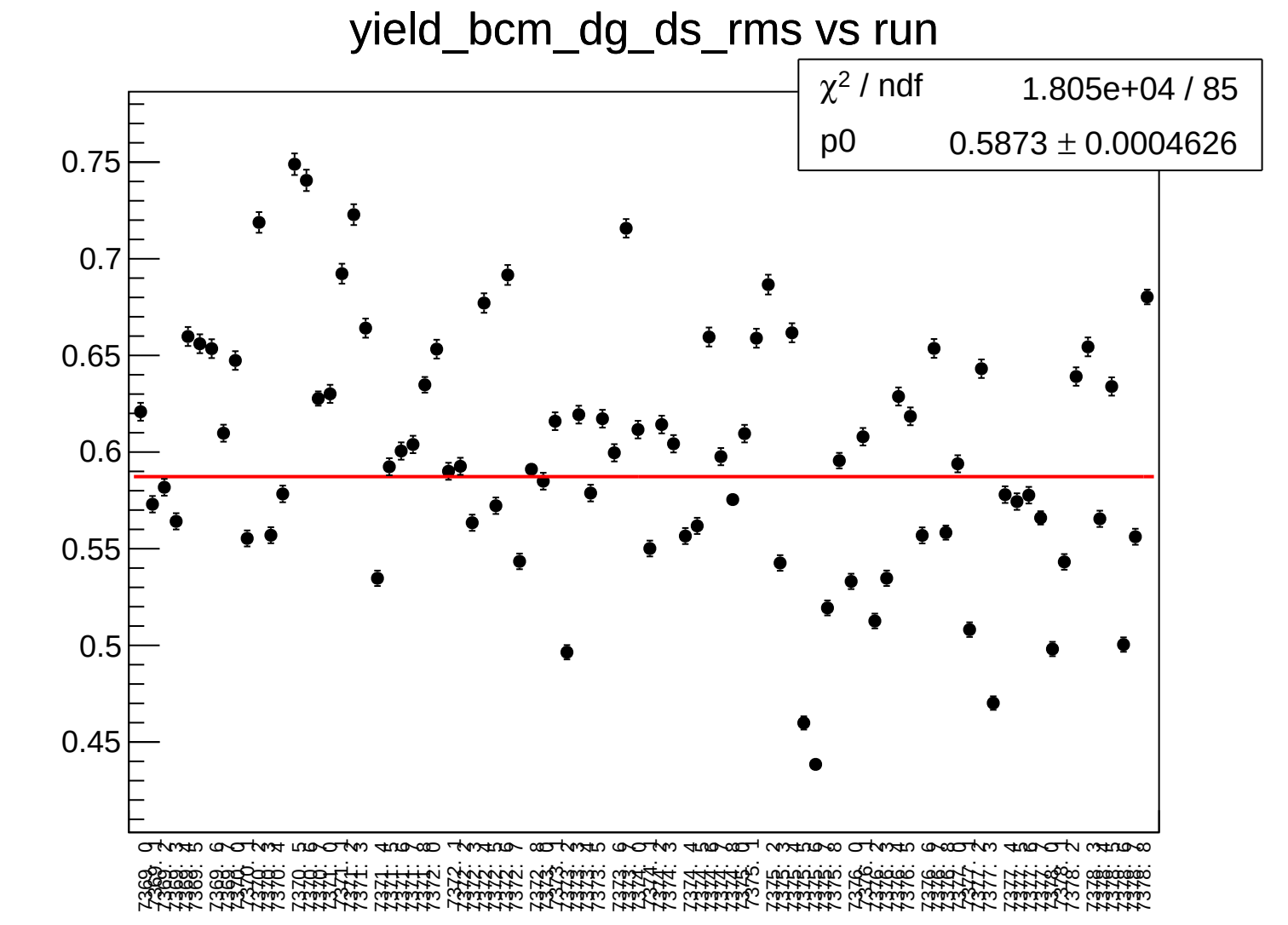

yield_bcm_dg_us_mean vs run
χ² / ndf 1.287e+05 / 85
p0 146 ± 0.0006608
146.4
146.2
146
145.8
145.6
145.4
145.2
pull
Entries 86
Mean −182.5
Std Dev 208.7
50
0
−50
−100
−150

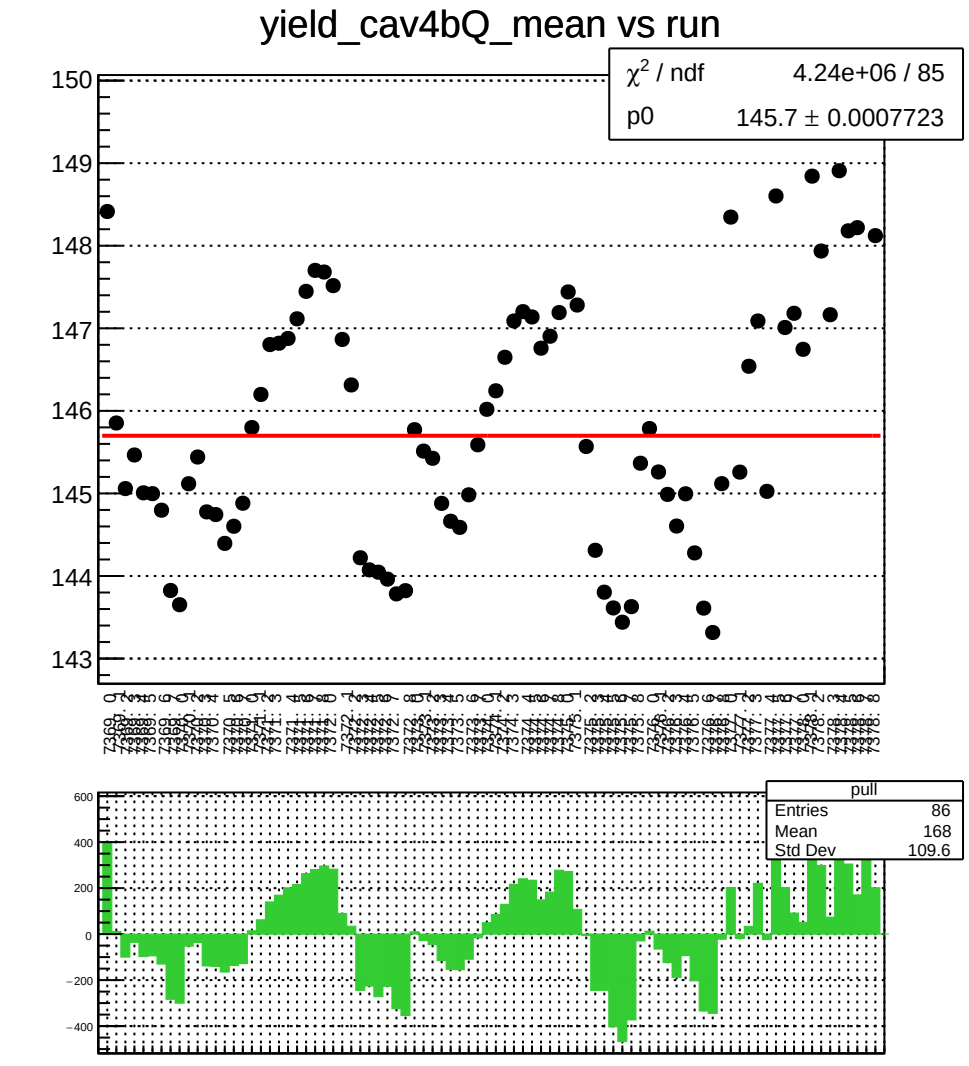

pull1D
Entries 86
Mean 0.4605
Std Dev 4.724
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

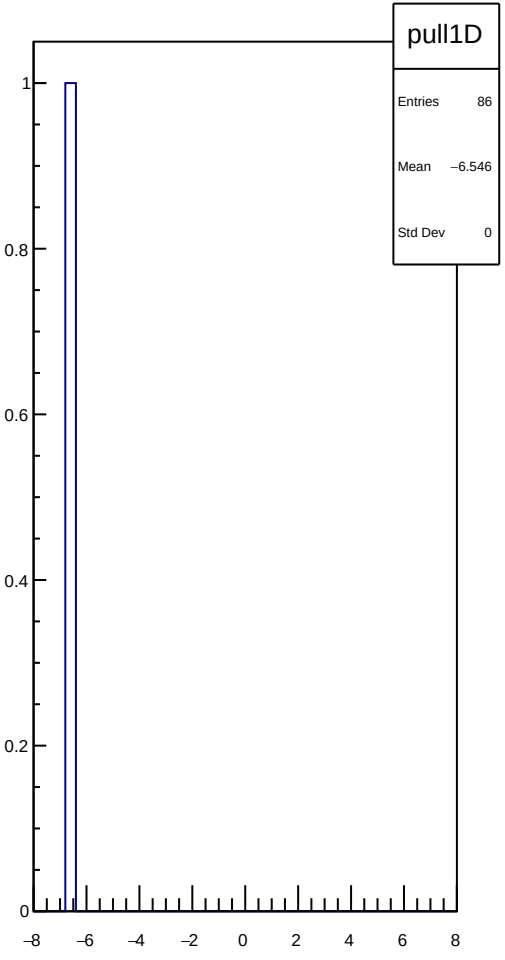

yield_bcm_dg_us_rms vs run
χ² / ndf 1.768e+04 / 85
p0 0.5933 ± 0.0004673
0.75
0.7
0.65
0.6
0.55
0.5
0.45

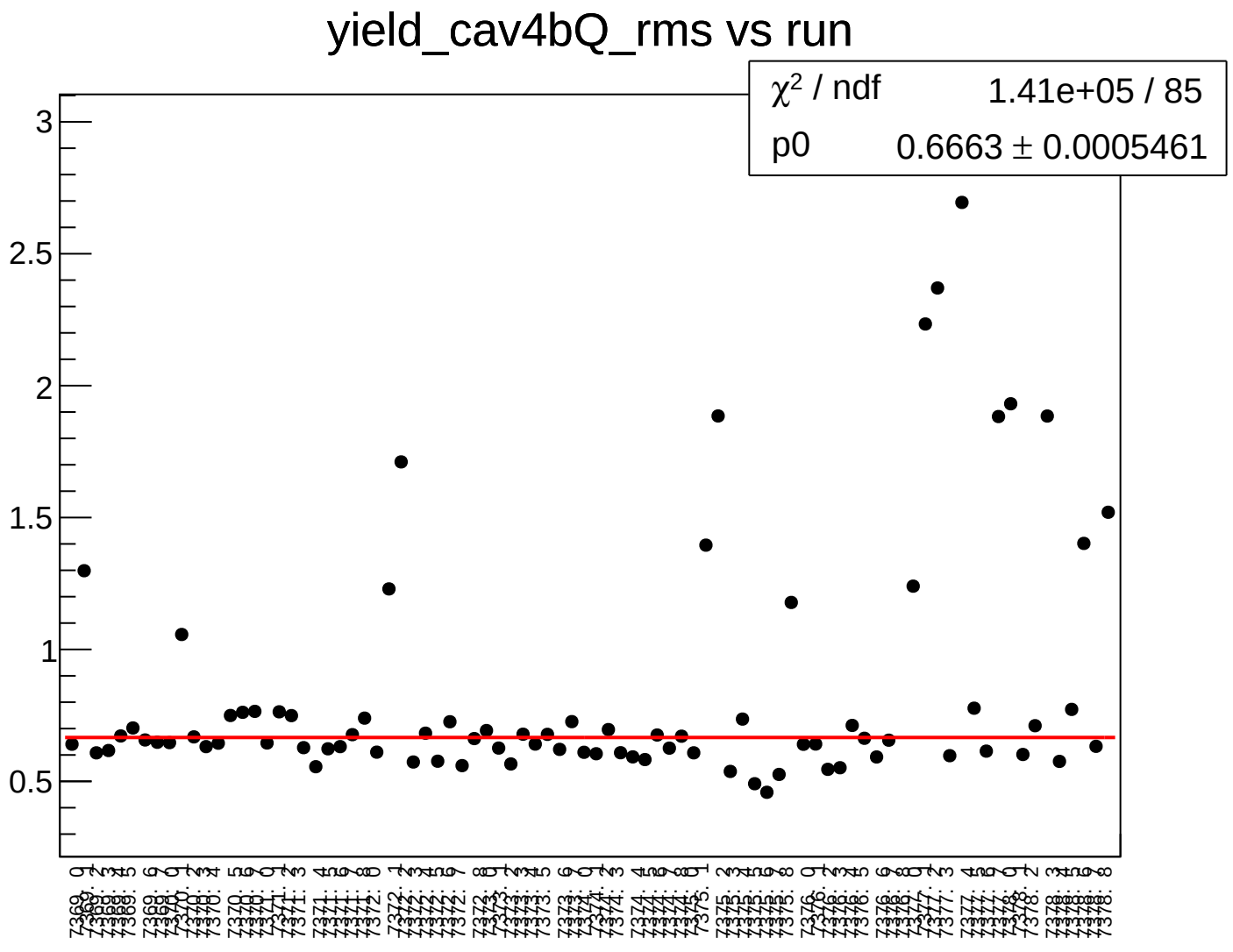

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.24e+05 / 85
p0 144.8 ± 0.0006543
145.4
145.2
145
144.8
144.6
144.4
144.2
144
pull
Entries 86
Mean −202.1
Std Dev 231.2
50
0
−50
−100
−150

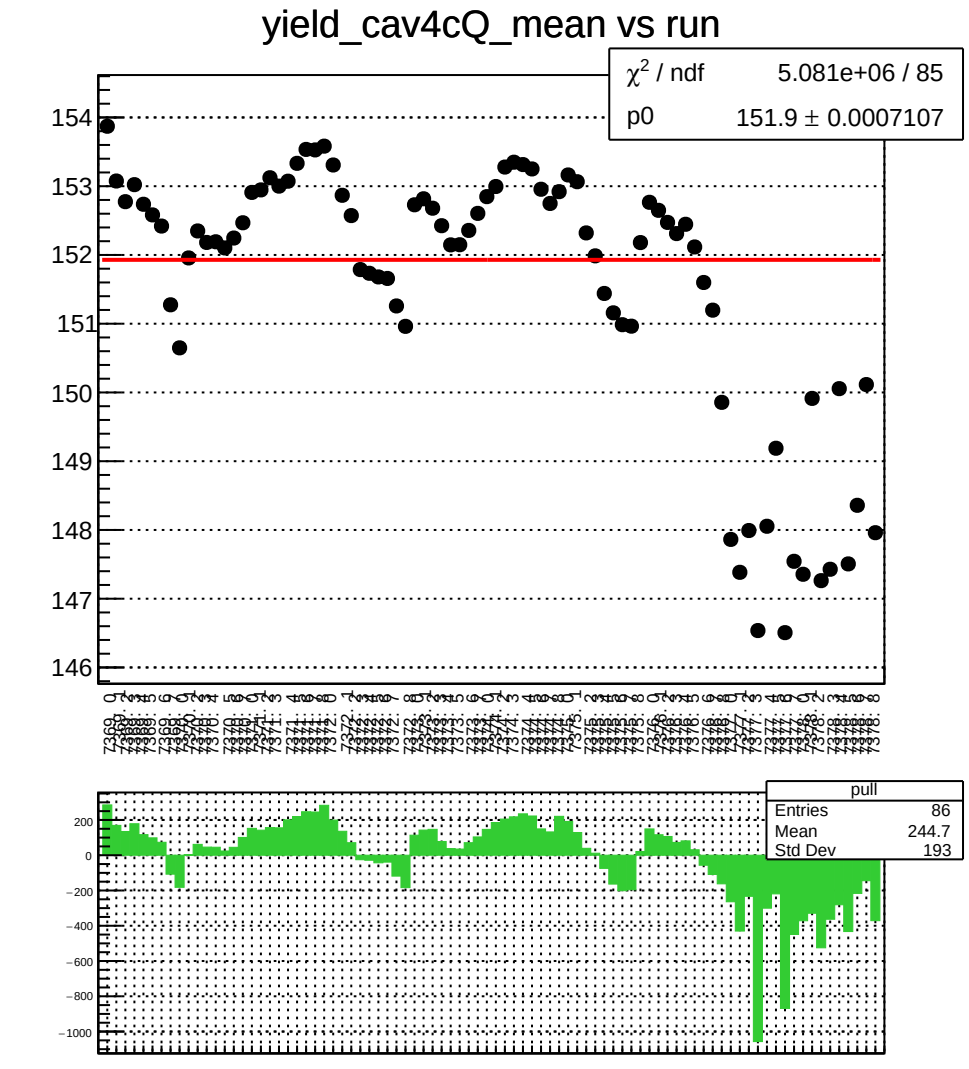

pull1D
Entries 86
Mean 0.9668
Std Dev 4.262
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

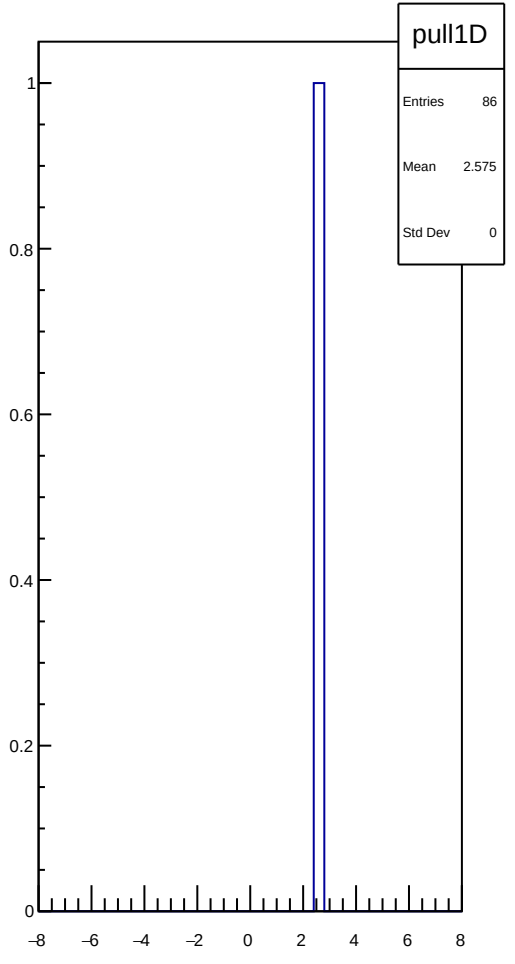

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.805e+04 / 85
p0 0.5873 ± 0.0004626
0.75
0.7
0.65
0.6
0.55
0.5
0.45

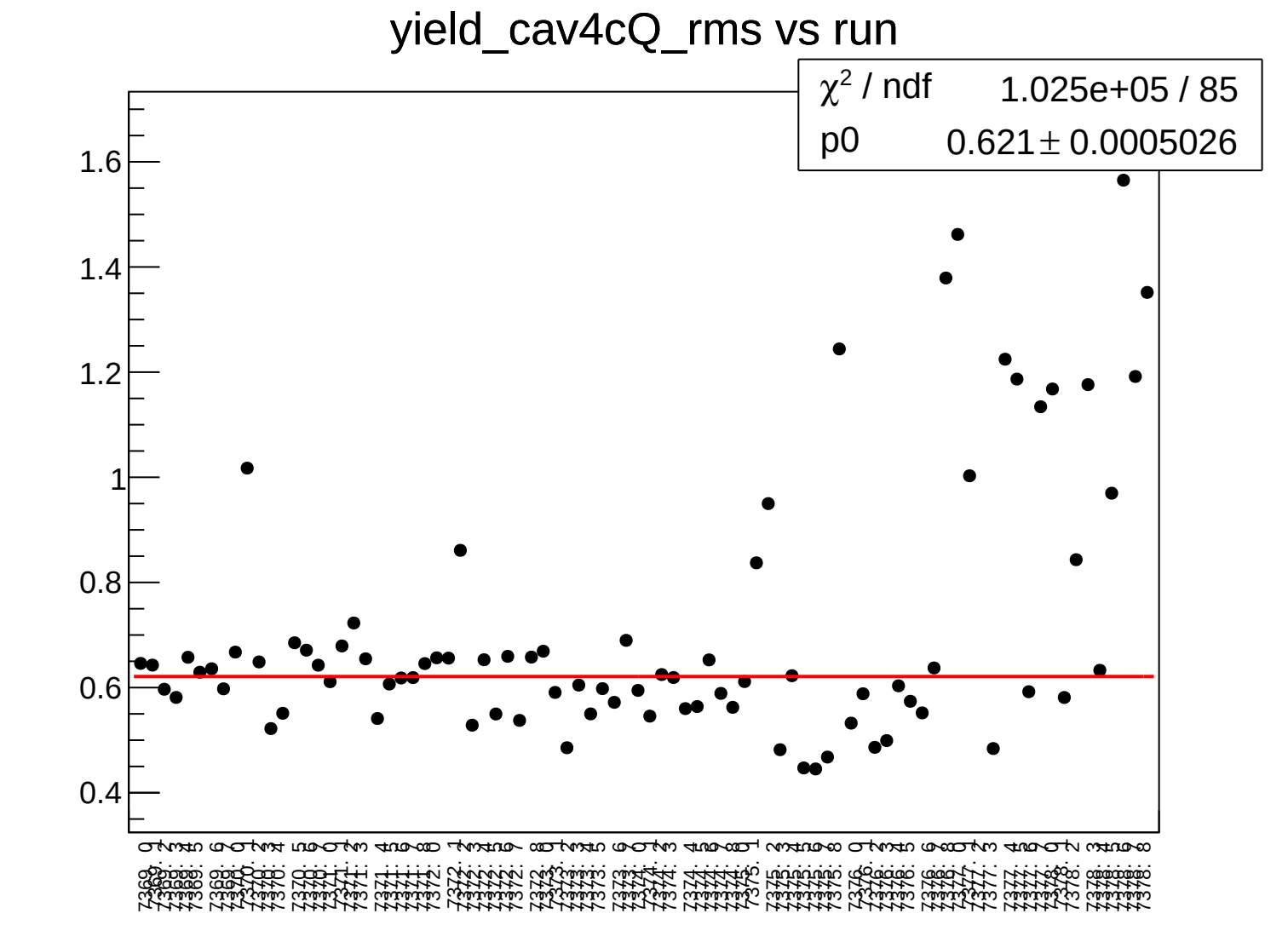

yield_cav4bQ_mean vs run
χ² / ndf 4.24e+06 / 85
p0 145.7 ± 0.0007723
150
149
148
147
146
145
144
143
pull
Entries 86
Mean 168
Std Dev 109.6
600
400
200
0
−200
−400

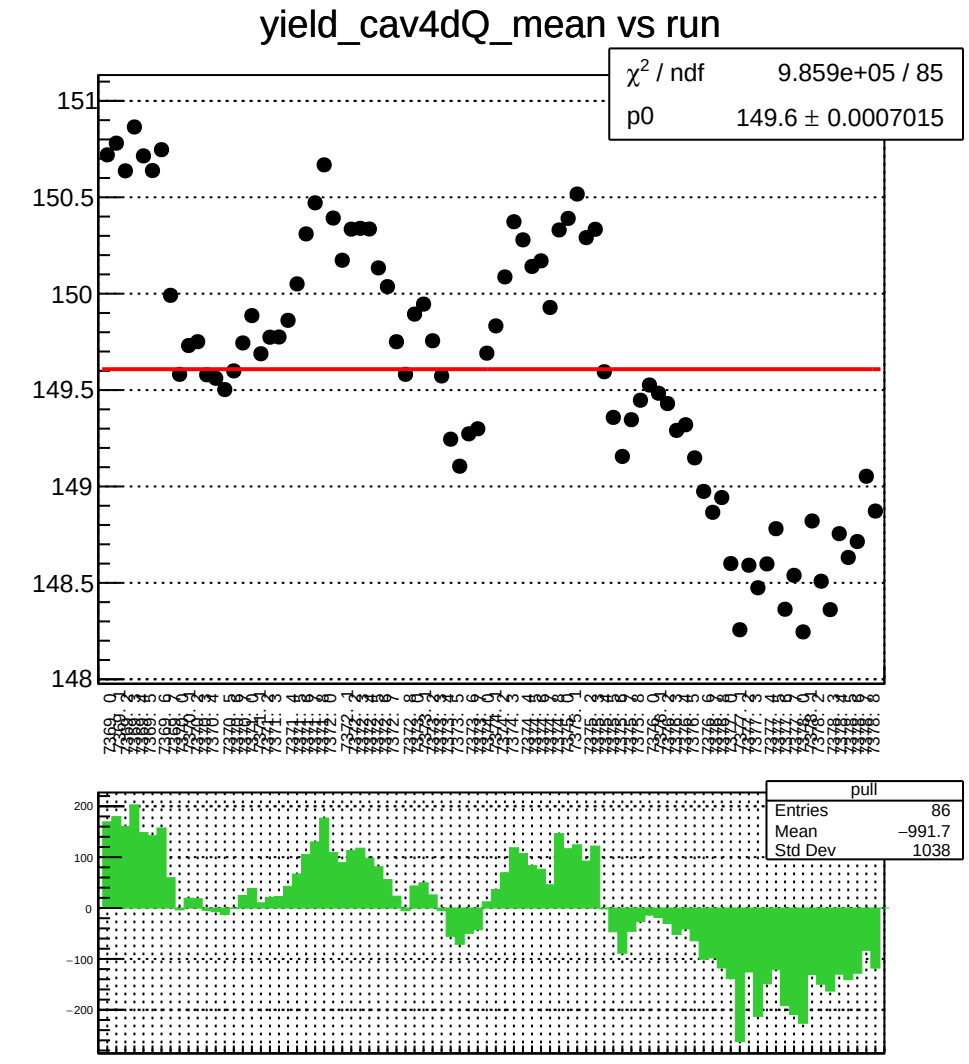

pull1D
Entries 86
Mean −6.546
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

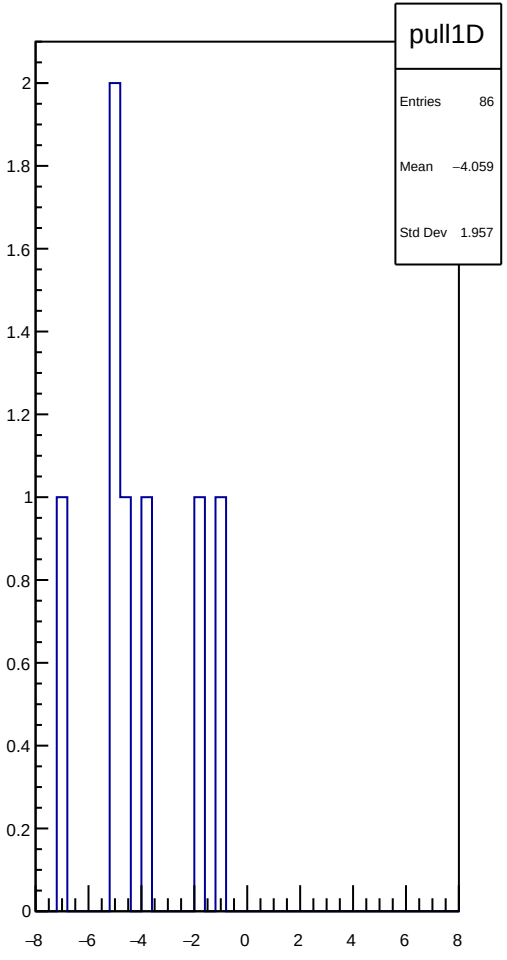

yield_cav4bQ_rms vs run
χ² / ndf 1.41e+05 / 85
p0 0.6663 ± 0.0005461
3
2.5
2
1.5
1
0.5

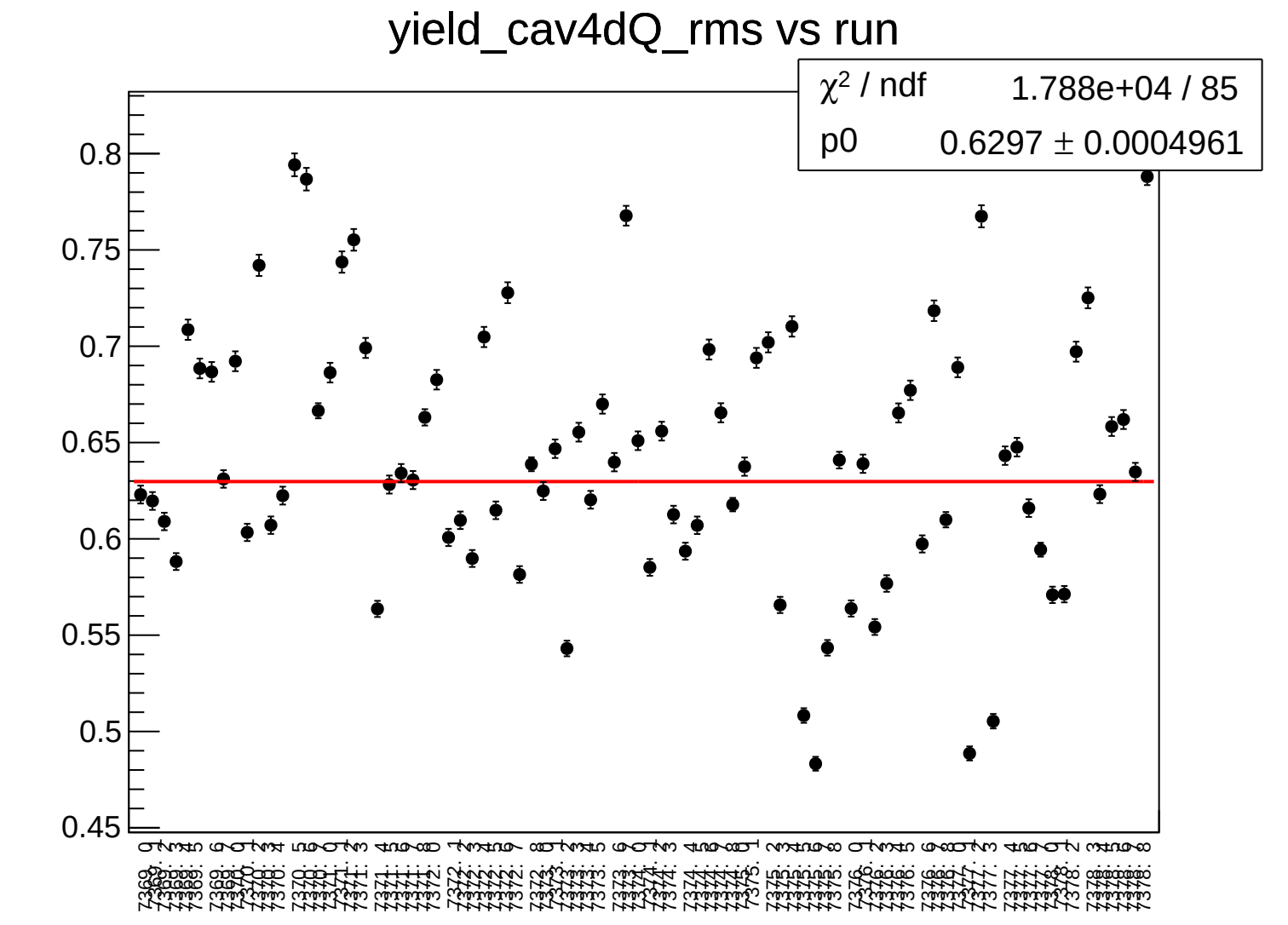

yield_cav4cQ_mean vs run
χ² / ndf 5.081e+06 / 85
p0 151.9 ± 0.0007107
154
153
152
151
150
149
148
147
146
pull
Entries 86
Mean 244.7
Std Dev 193
200
0
−200
−400
−600
−800
−1000

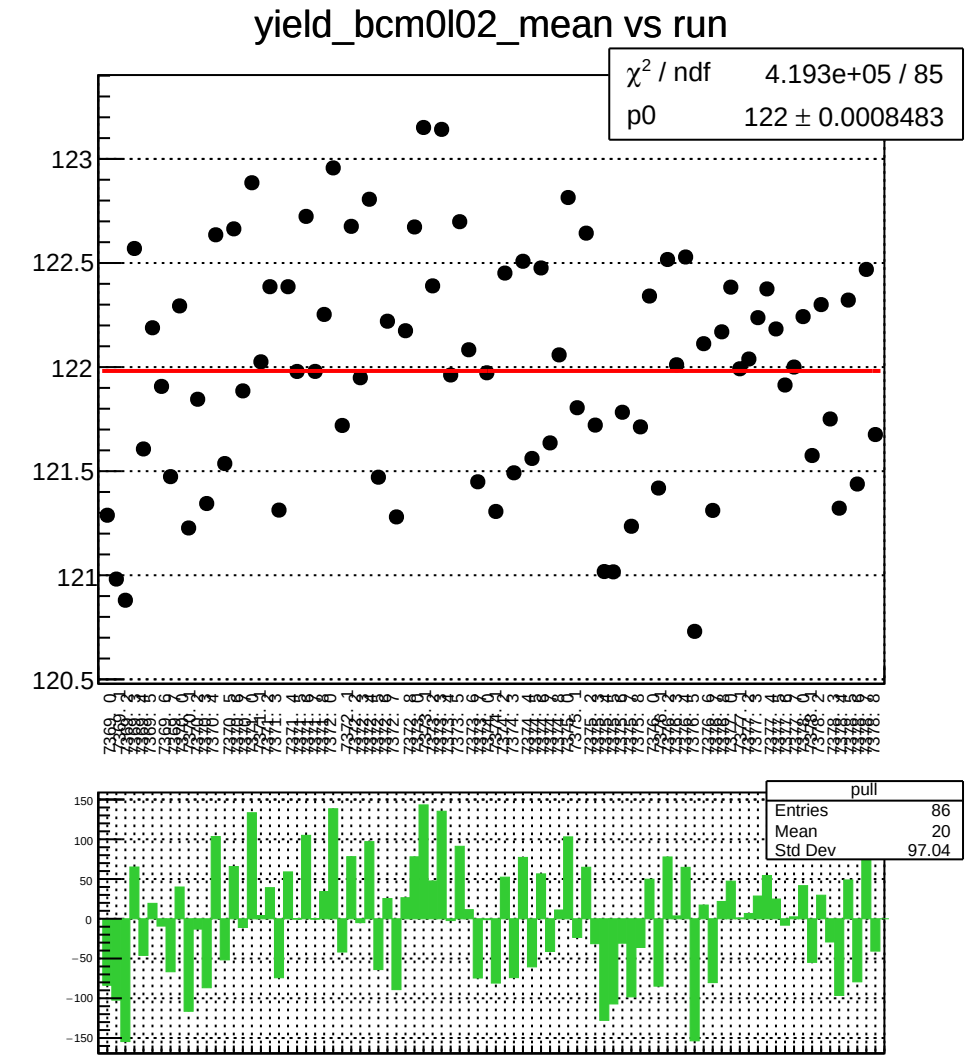

pull1D
Entries 86
Mean 2.575
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

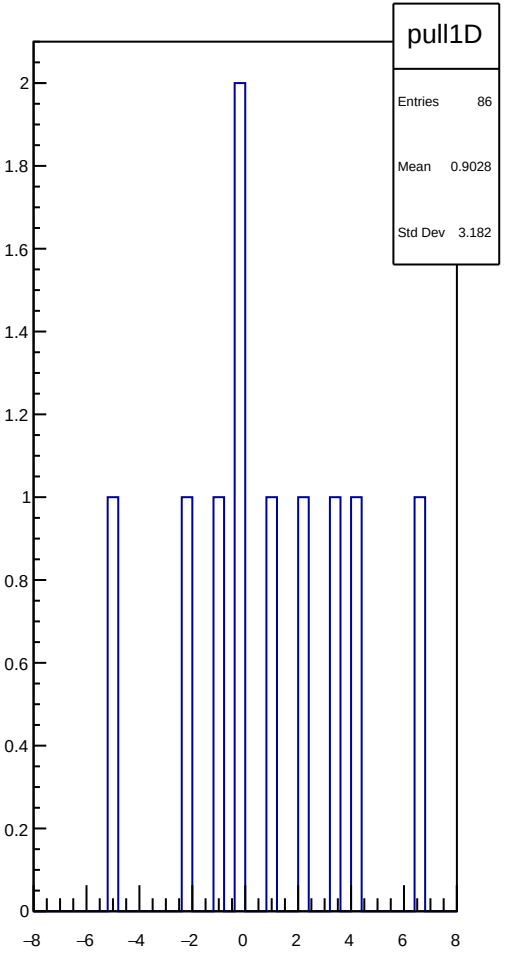

yield_cav4cQ_rms vs run
χ² / ndf 1.025e+05 / 85
p0 0.621 ± 0.0005026
1.6
1.4
1.2
1
0.8
0.6
0.4

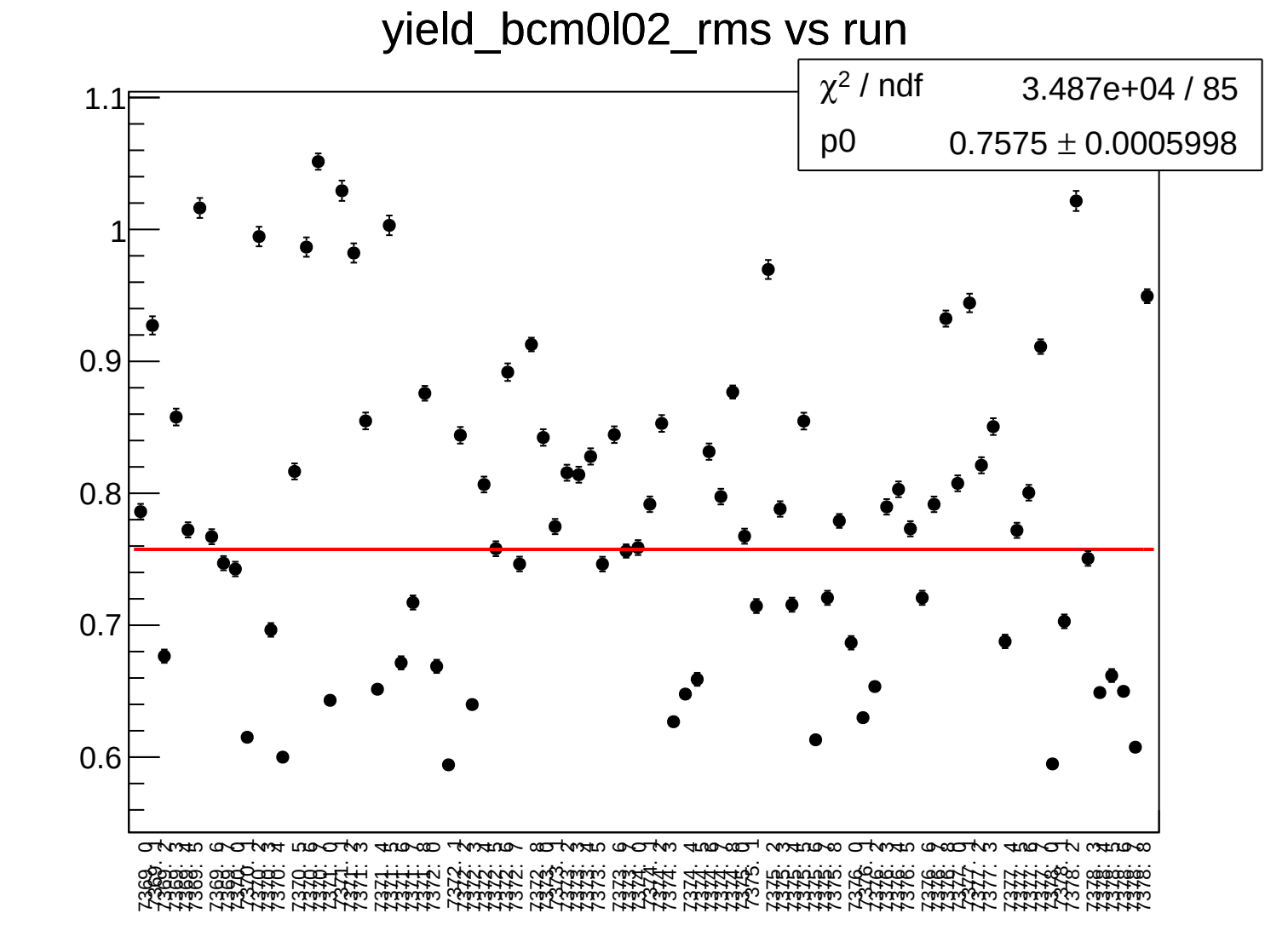

yield_cav4dQ_mean vs run
χ² / ndf 9.859e+05 / 85
p0 149.6 ± 0.0007015
151
150.5
150
149.5
149
148.5
148
pull
Entries 86
Mean −991.7
Std Dev 1038
200
100
0
−100
−200

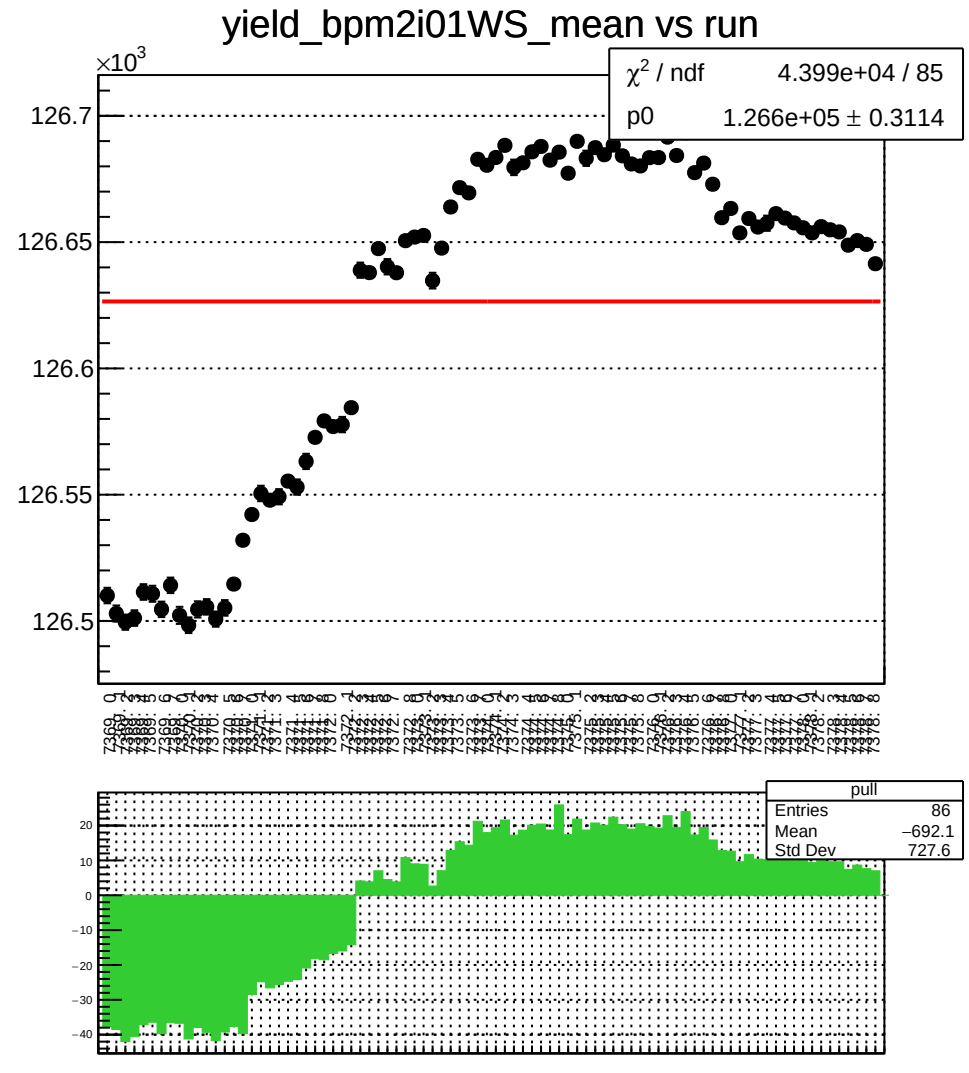

pull1D
Entries 86
Mean −4.059
Std Dev 1.957
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

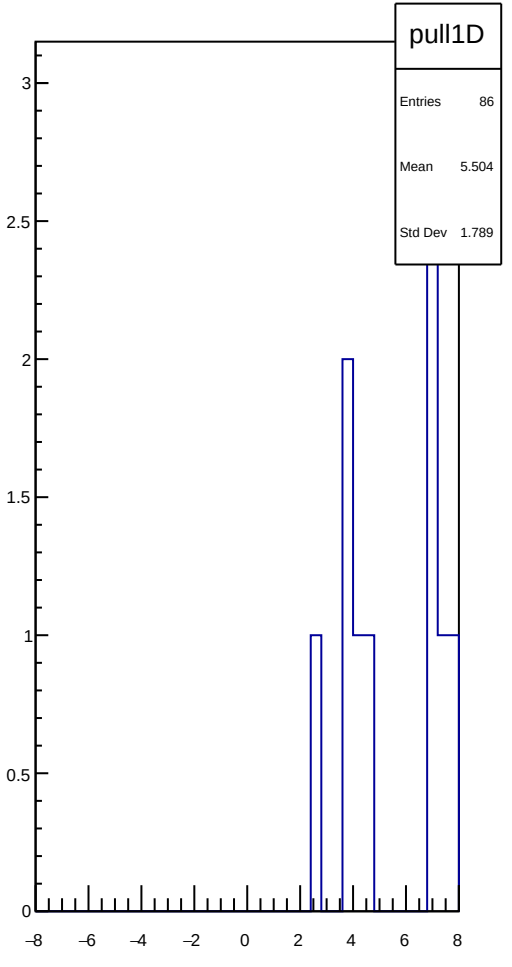

yield_cav4dQ_rms vs run
χ² / ndf 1.788e+04 / 85
p0 0.6297 ± 0.0004961
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

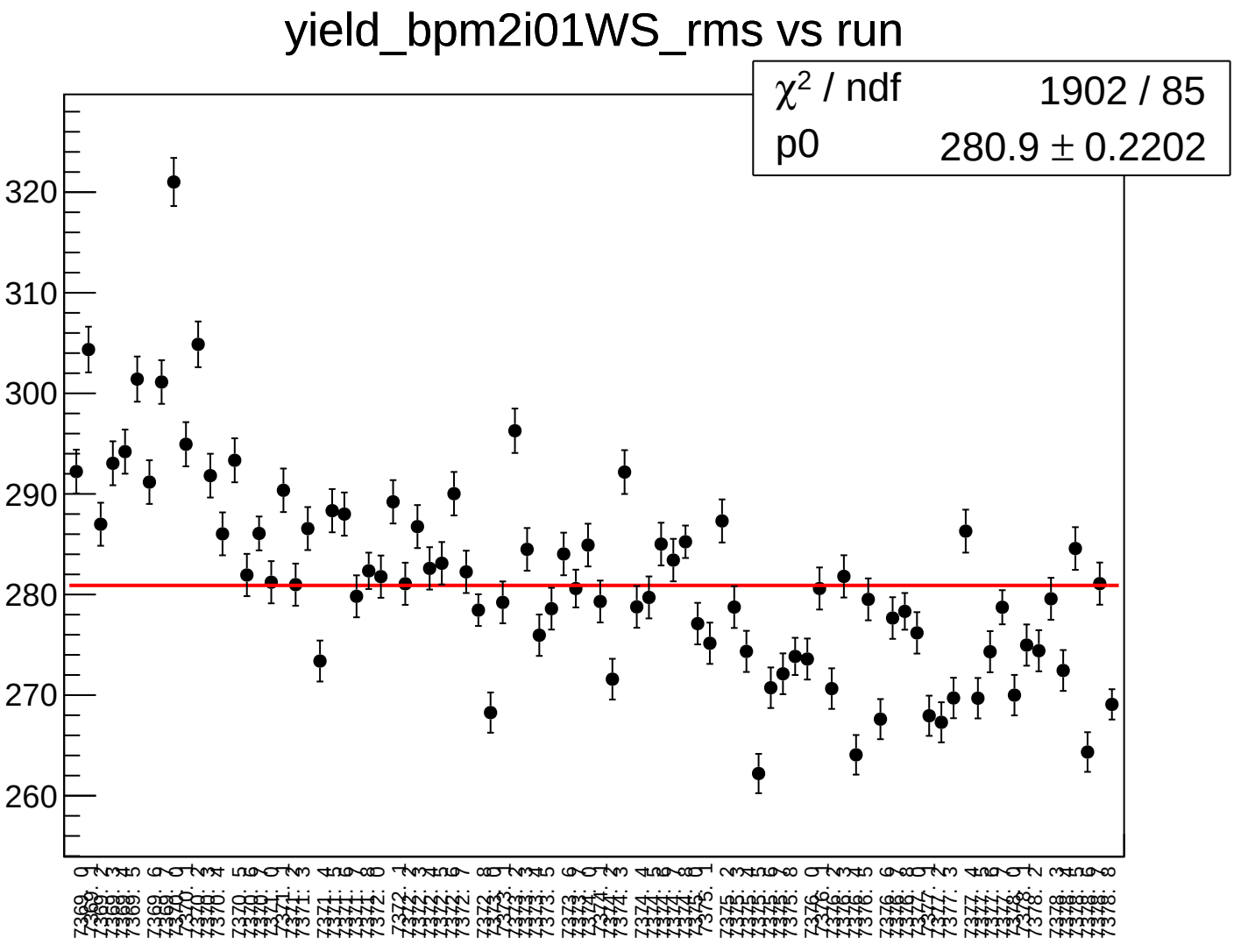

yield_bcm0l02_mean vs run
χ² / ndf 4.193e+05 / 85
p0 122 ± 0.0008483
123
122.5
122
121.5
121
120.5
pull
Entries 86
Mean 20
Std Dev 97.04
150
100
50
0
−50
−100
−150

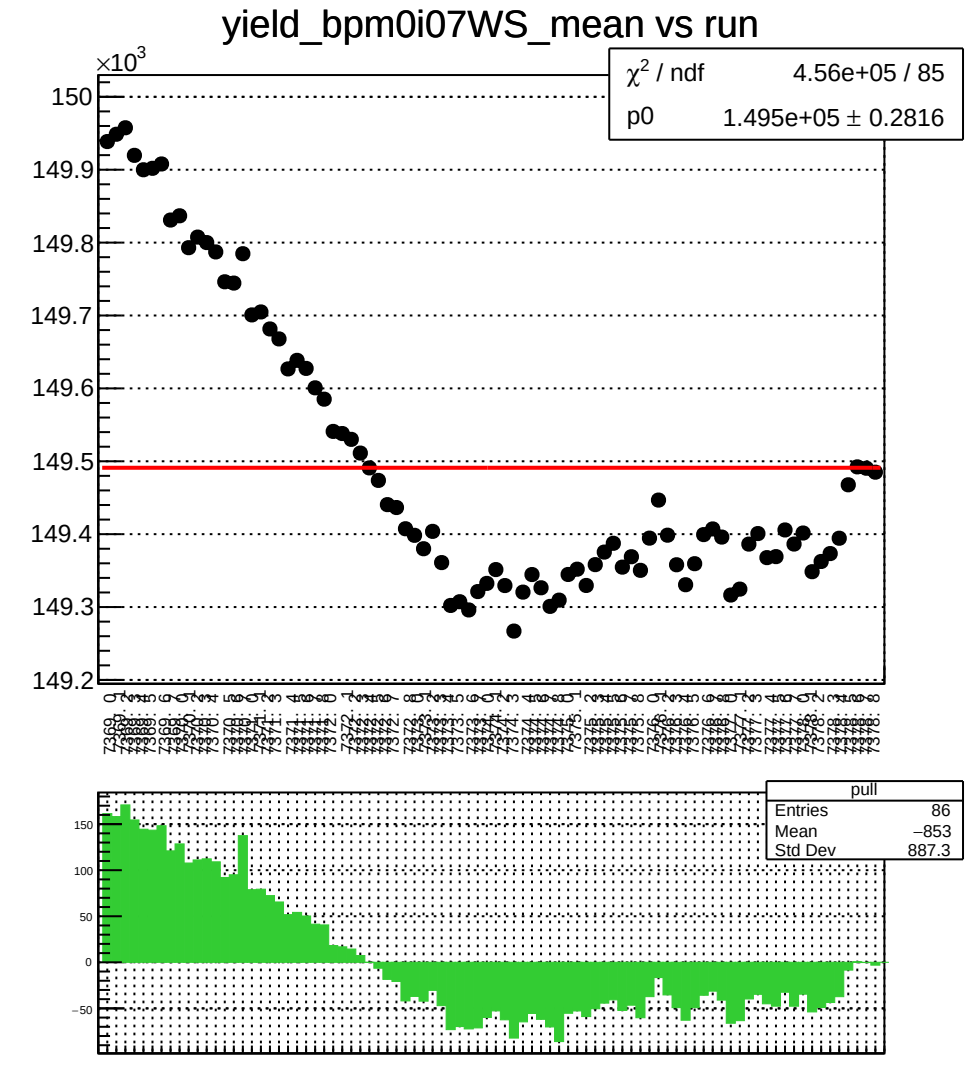

pull1D
Entries 86
Mean 0.9028
Std Dev 3.182
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

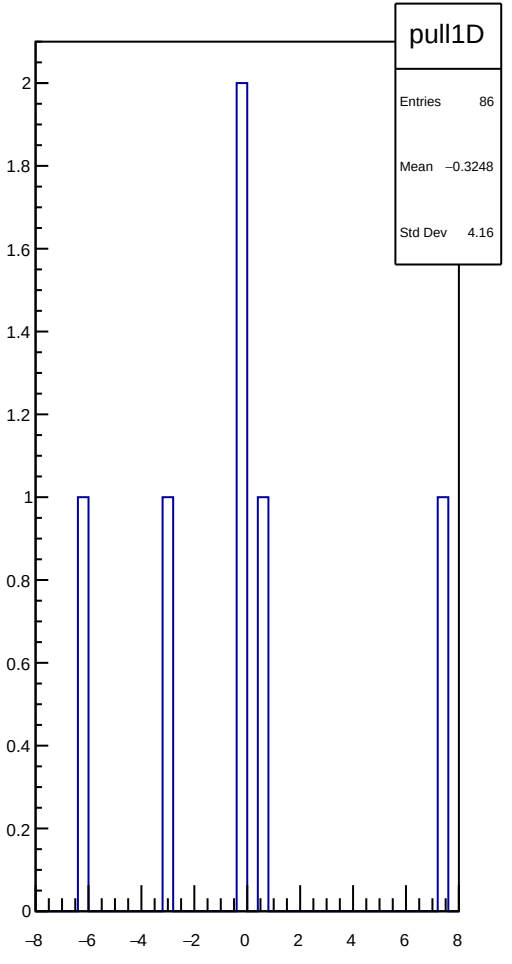

yield_bcm0l02_rms vs run
χ2 / ndf 3.487e+04 / 85
p0 0.7575 ± 0.0005998
1.1
1
0.9
0.8
0.7
0.6

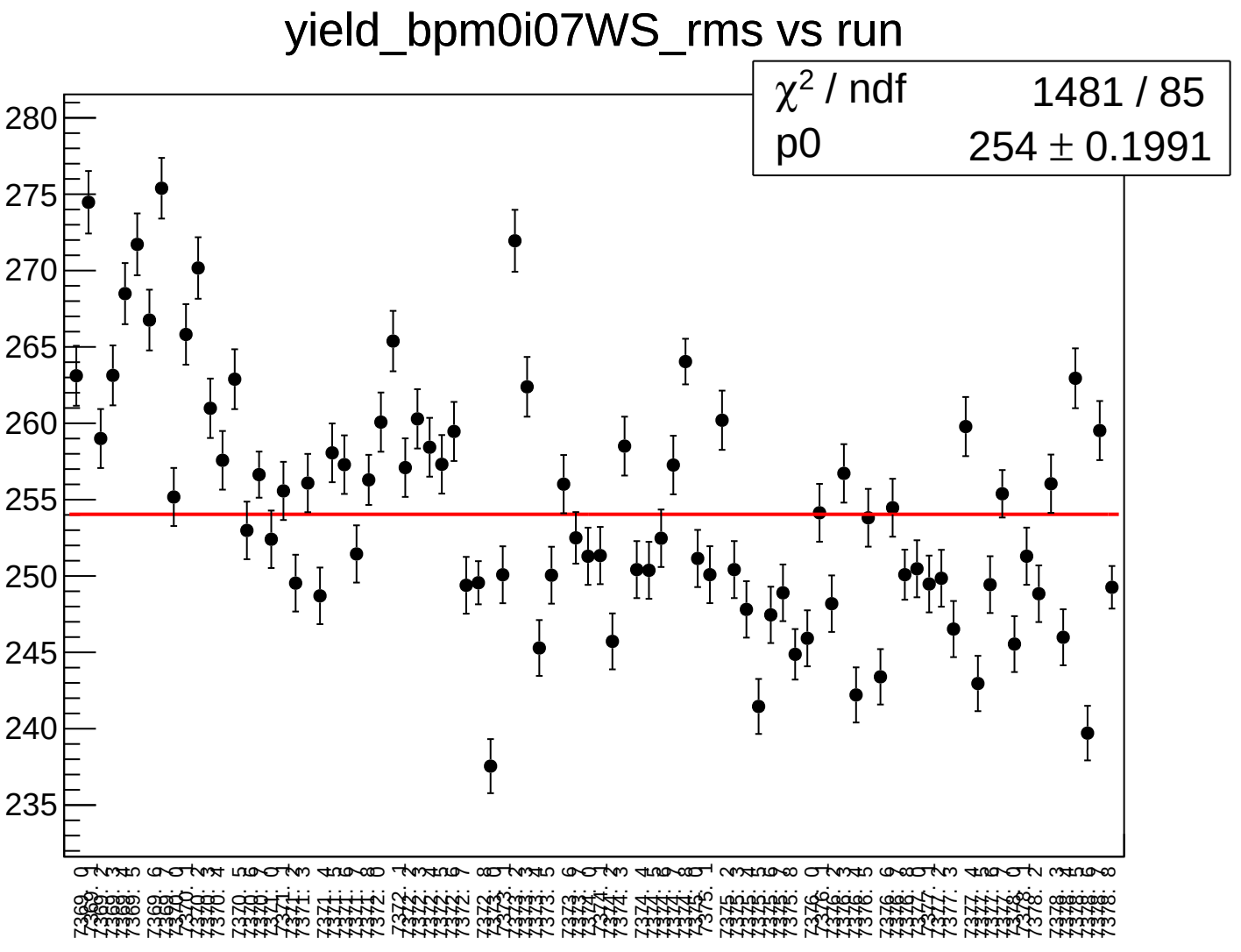

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 4.399e+04 / 85
p0 1.266e+05 ± 0.3114
126.7
126.65
126.6
126.55
126.5
pull
Entries 86
Mean −692.1
Std Dev 727.6
20
10
0
−10
−20
−30
−40

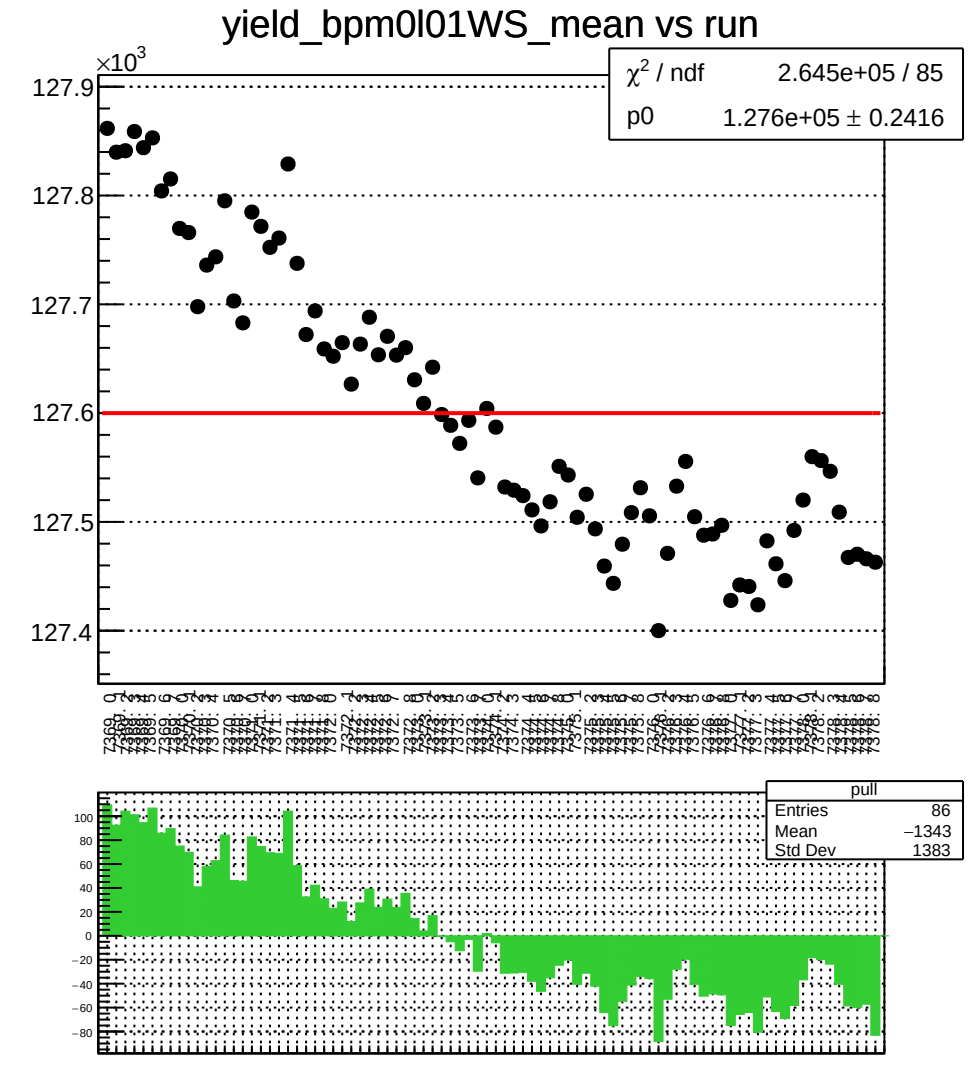

pull1D
Entries 86
Mean 5.504
Std Dev 1.789
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

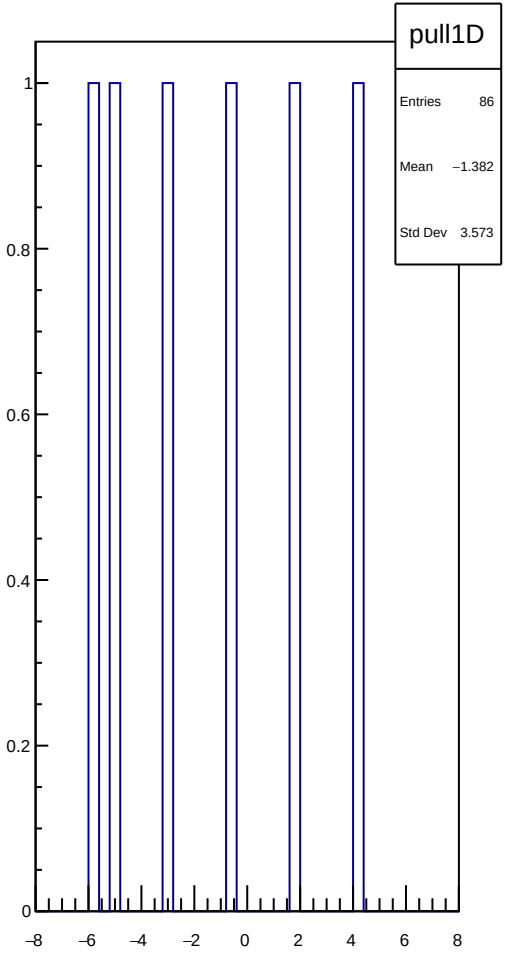

yield_bpm2i01WS_rms vs run
χ² / ndf 1902 / 85
p0 280.9 ± 0.2202
320
310
300
290
280
270
260

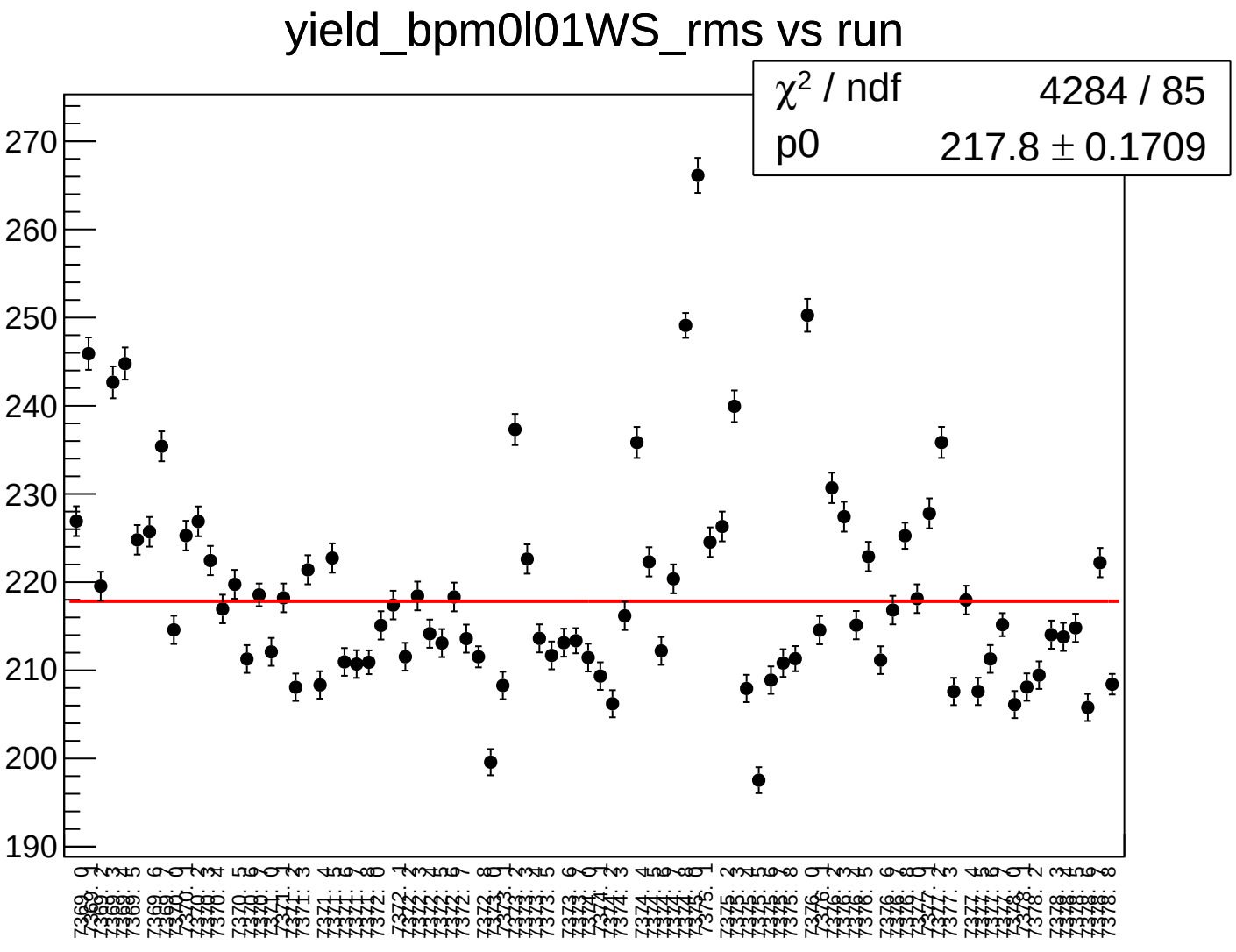

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 4.56e+05 / 85
p0 1.495e+05 ± 0.2816
150
149.9
149.8
149.7
149.6
149.5
149.4
149.3
149.2
pull
Entries 86
Mean −853
Std Dev 887.3
150
100
50
0
−50

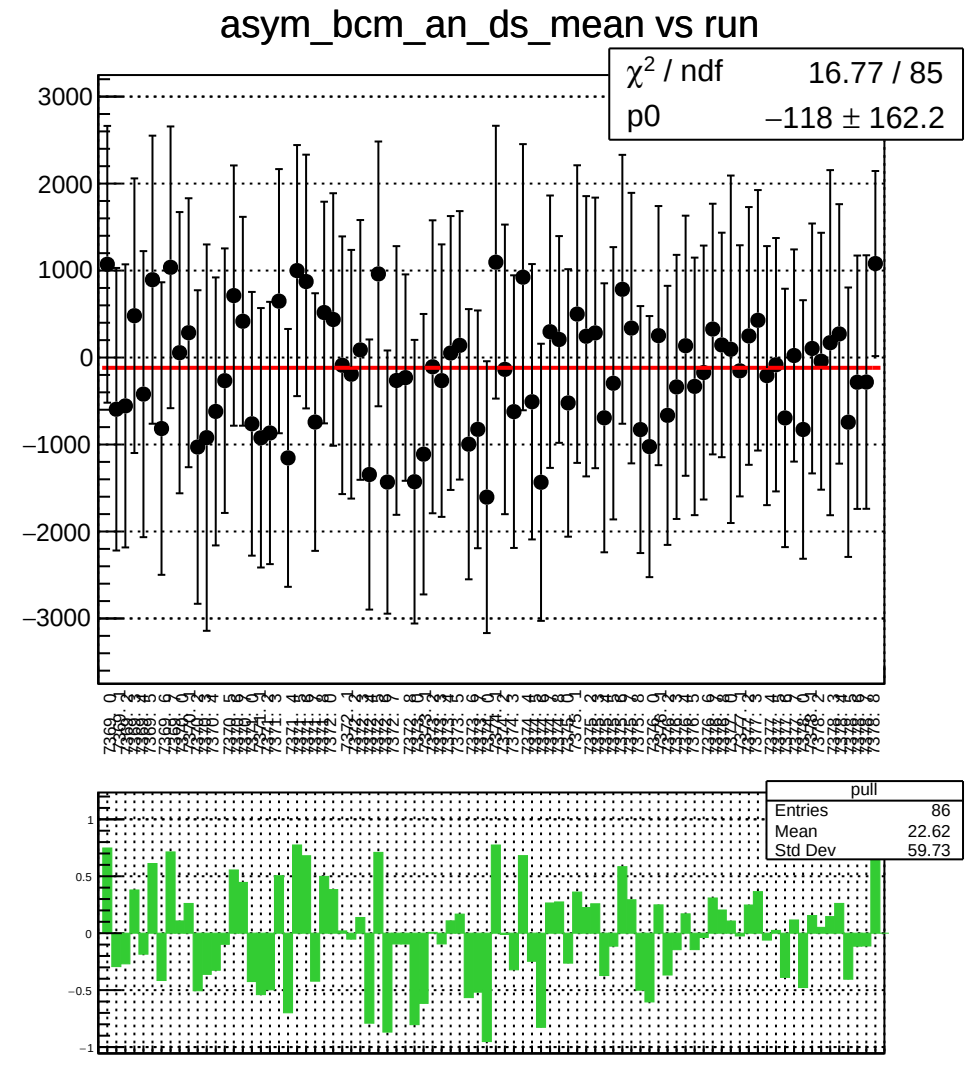

pull1D
Entries 86
Mean −0.3248
Std Dev 4.16
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

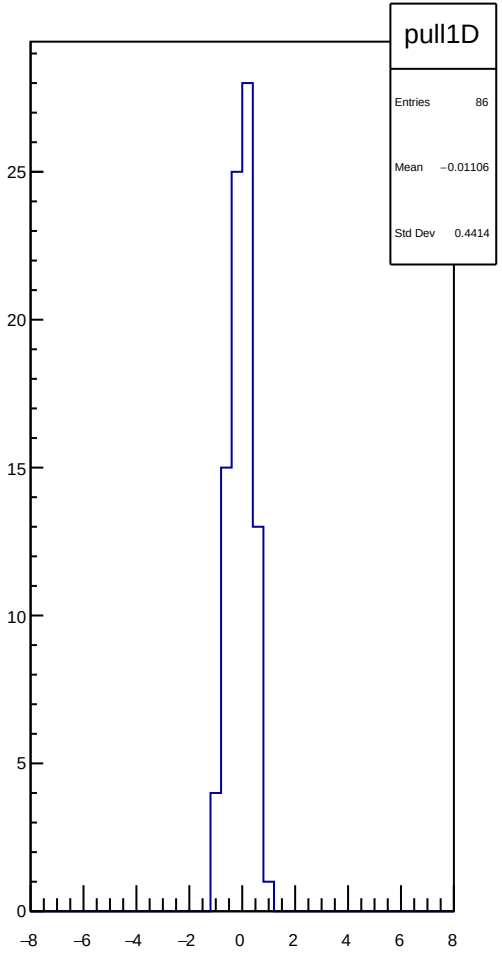

yield_bpm0i07WS_rms vs run
χ² / ndf 1481 / 85
p0 254 ± 0.1991
280
275
270
265
260
255
250
245
240
235

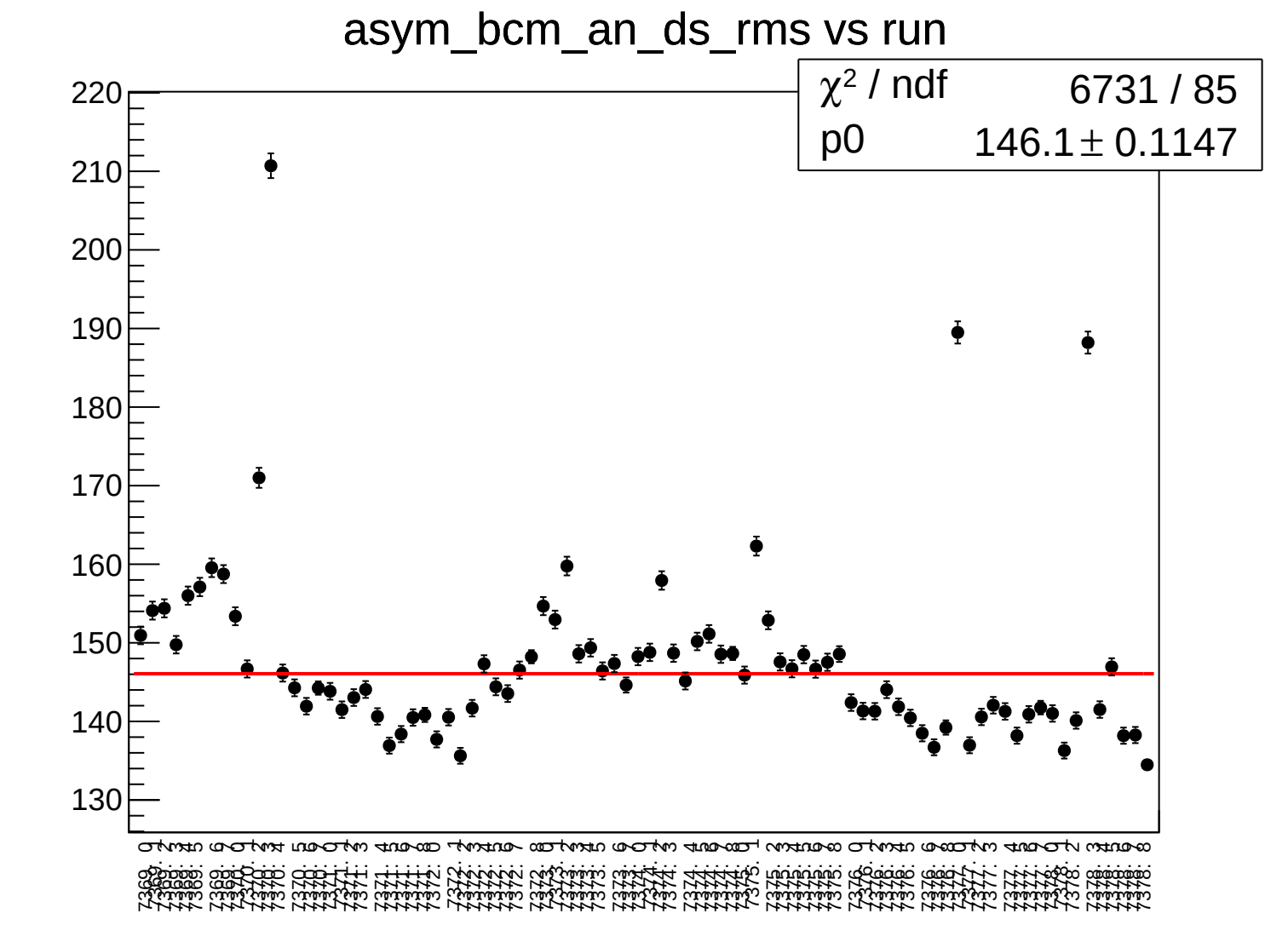

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.645e+05 / 85
p0 1.276e+05 ± 0.2416
127.9
127.8
127.7
127.6
127.5
127.4
pull
Entries 86
Mean −1343
Std Dev 1383
100
80
60
40
20
0
−20
−40
−60
−80

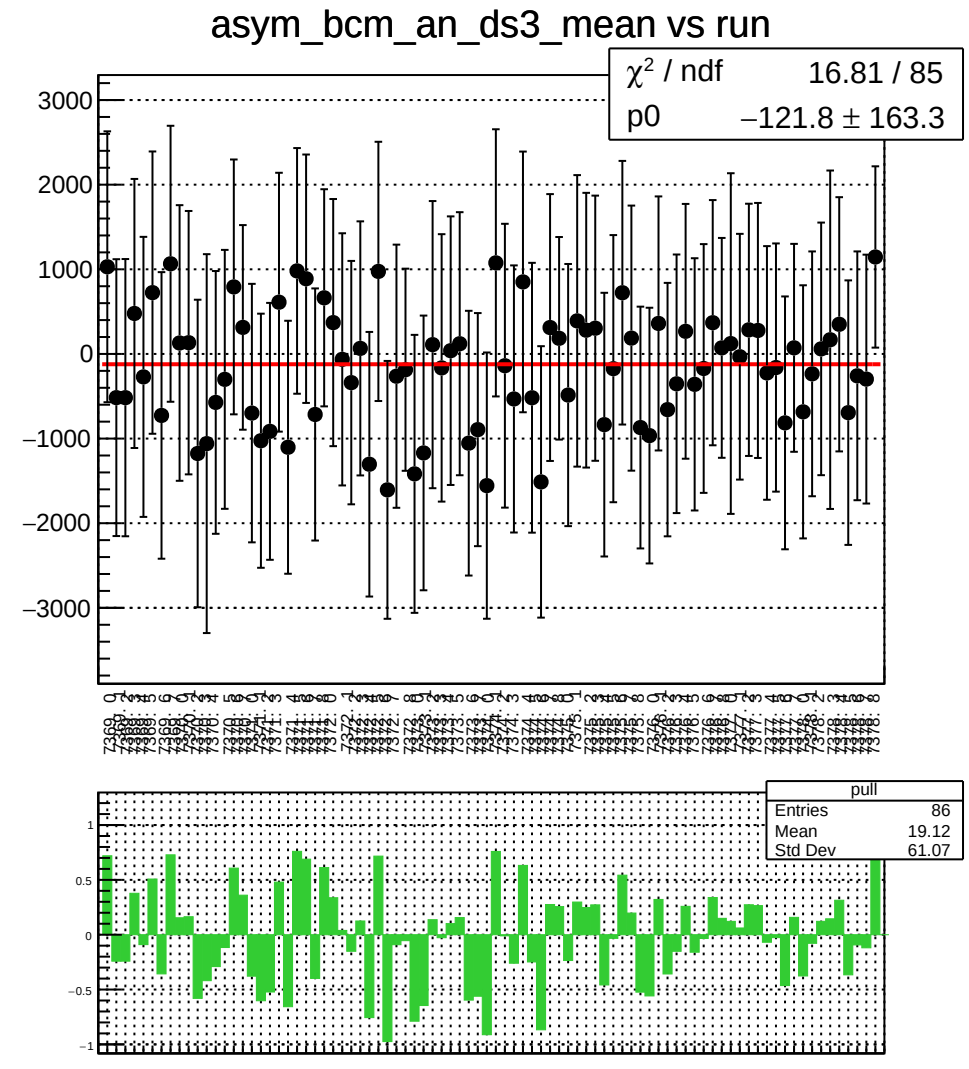

pull1D
Entries 86
Mean −1.382
Std Dev 3.573
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

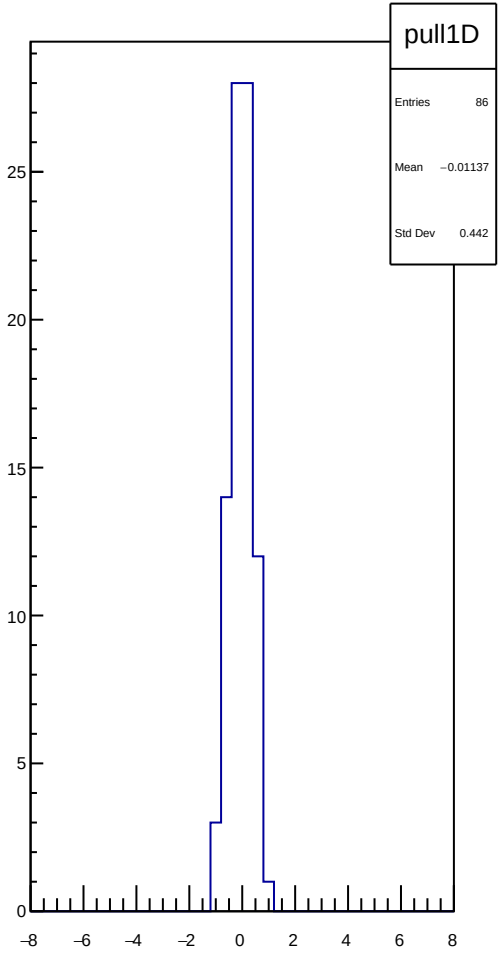

yield_bpm0l01WS_rms vs run
χ² / ndf 4284 / 85
p0 217.8 ± 0.1709
270
260
250
240
230
220
210
200
190

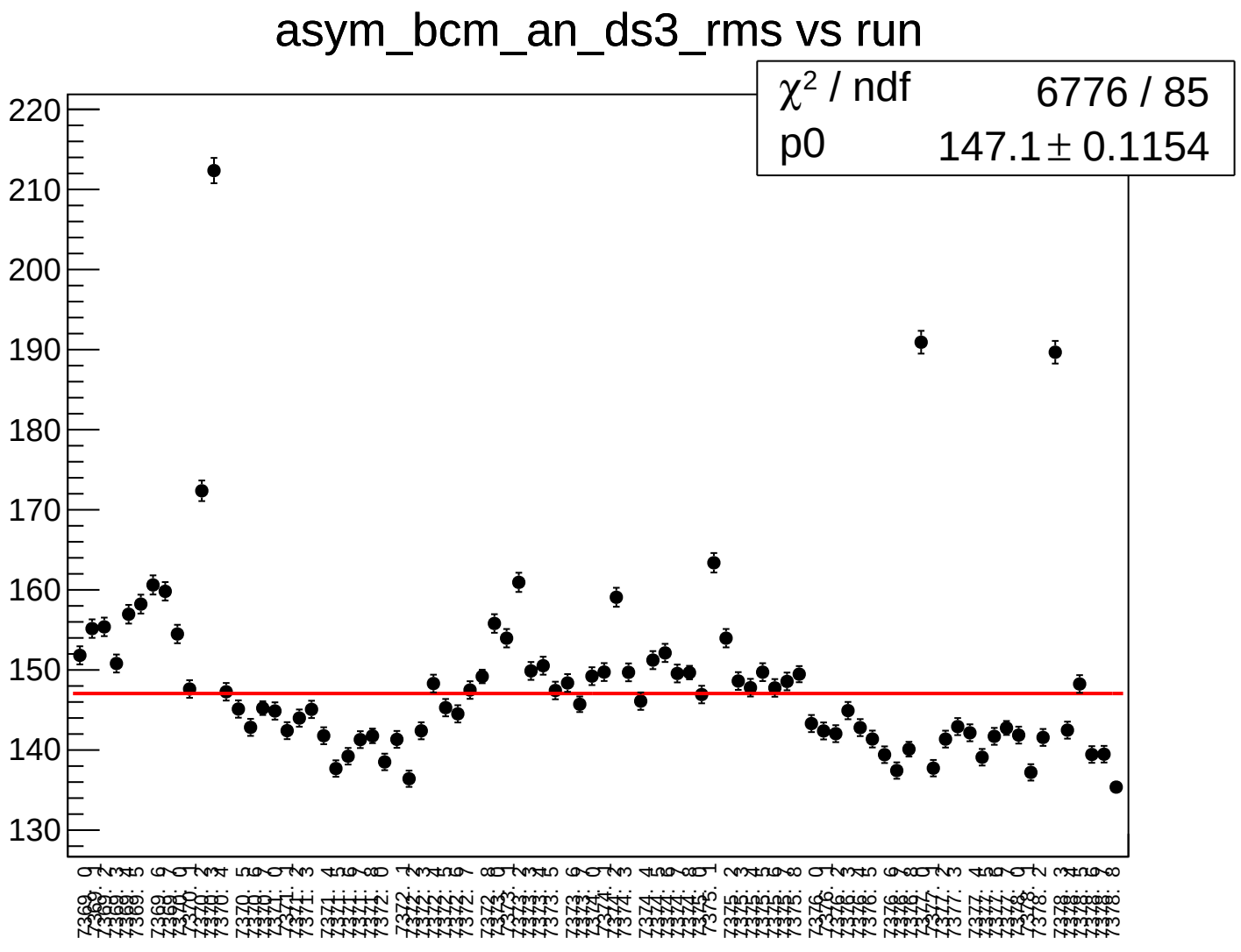

asym_bcm_an_ds_mean vs run
χ² / ndf 16.77 / 85
p0 −118 ± 162.2
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean 22.62
Std Dev 59.73
1
0.5
0
−0.5
−1

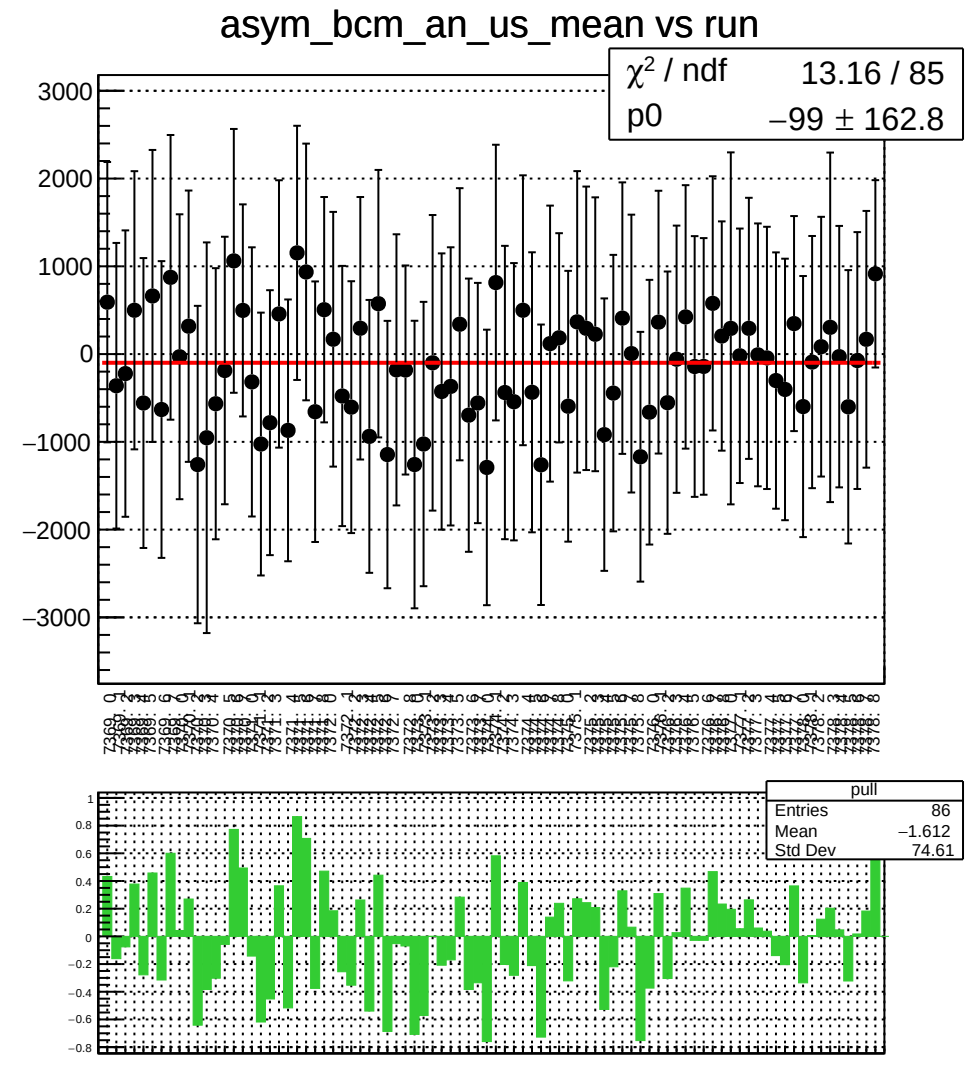

pull1D
Entries 86
Mean −0.01106
Std Dev 0.4414
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

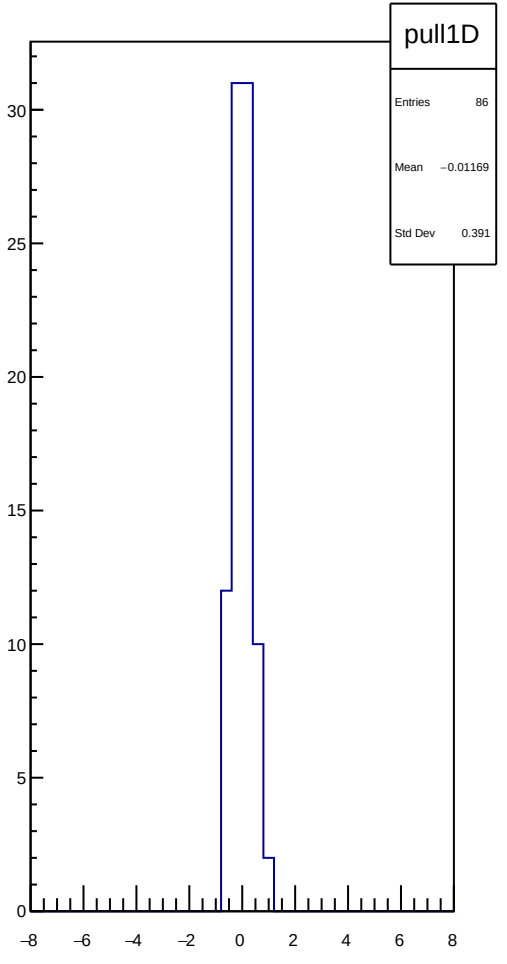

asym_bcm_an_ds_rms vs run
χ^2 / ndf 6731 / 85
p0 146.1 ± 0.1147
220
210
200
190
180
170
160
150
140
130

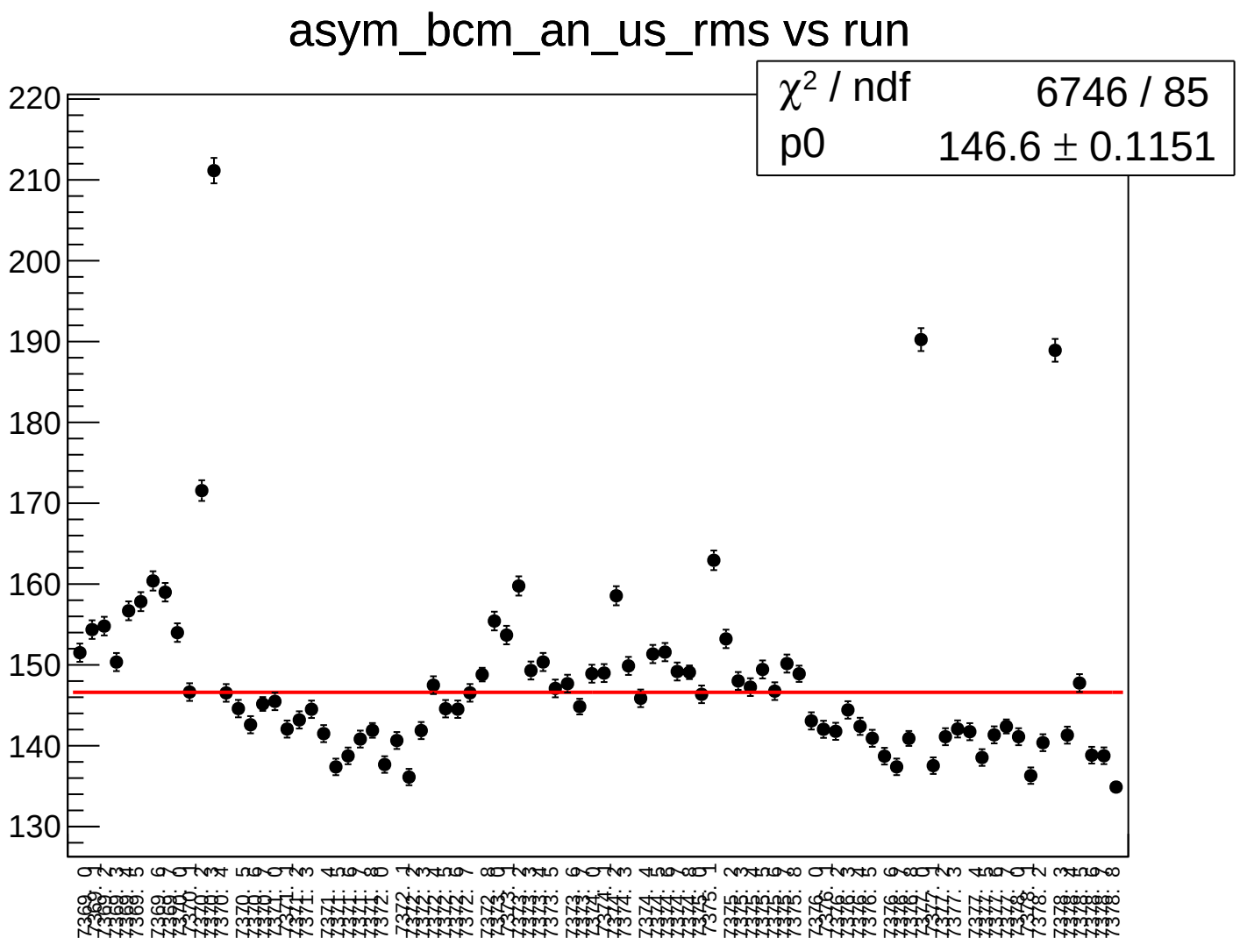

asym_bcm_an_ds3_mean vs run
χ² / ndf 16.81 / 85
p0 −121.8 ± 163.3
pull
Entries 86
Mean 19.12
Std Dev 61.07

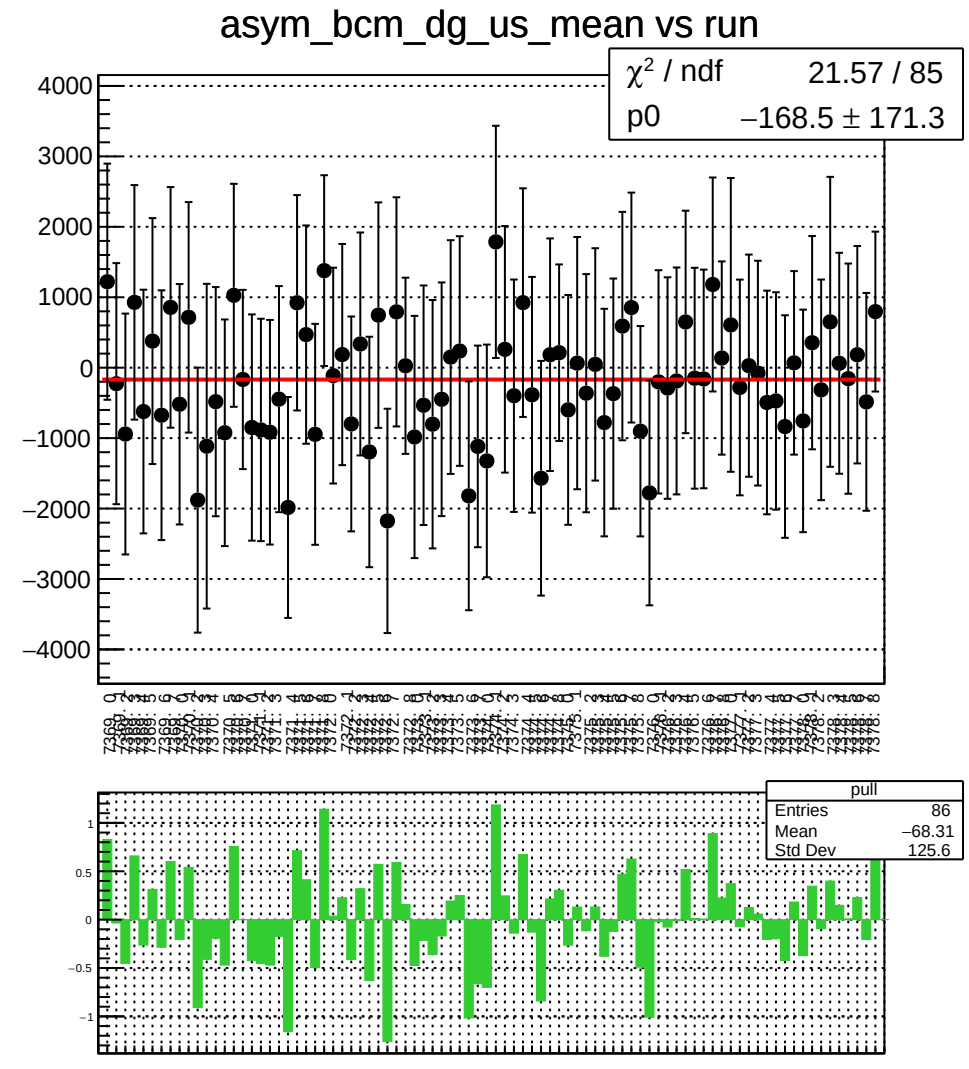

pull1D
Entries 86
Mean −0.01137
Std Dev 0.442

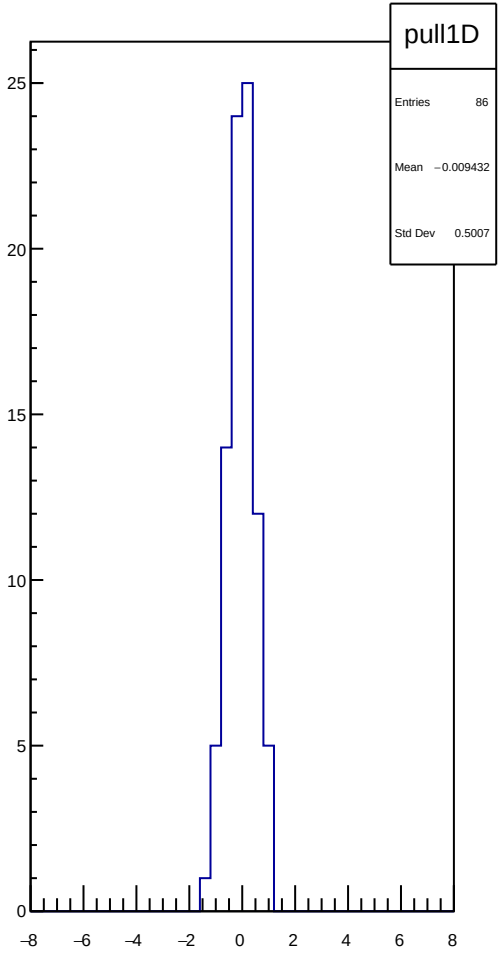

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 6776 / 85
p0 147.1 ± 0.1154
220
210
200
190
180
170
160
150
140
130

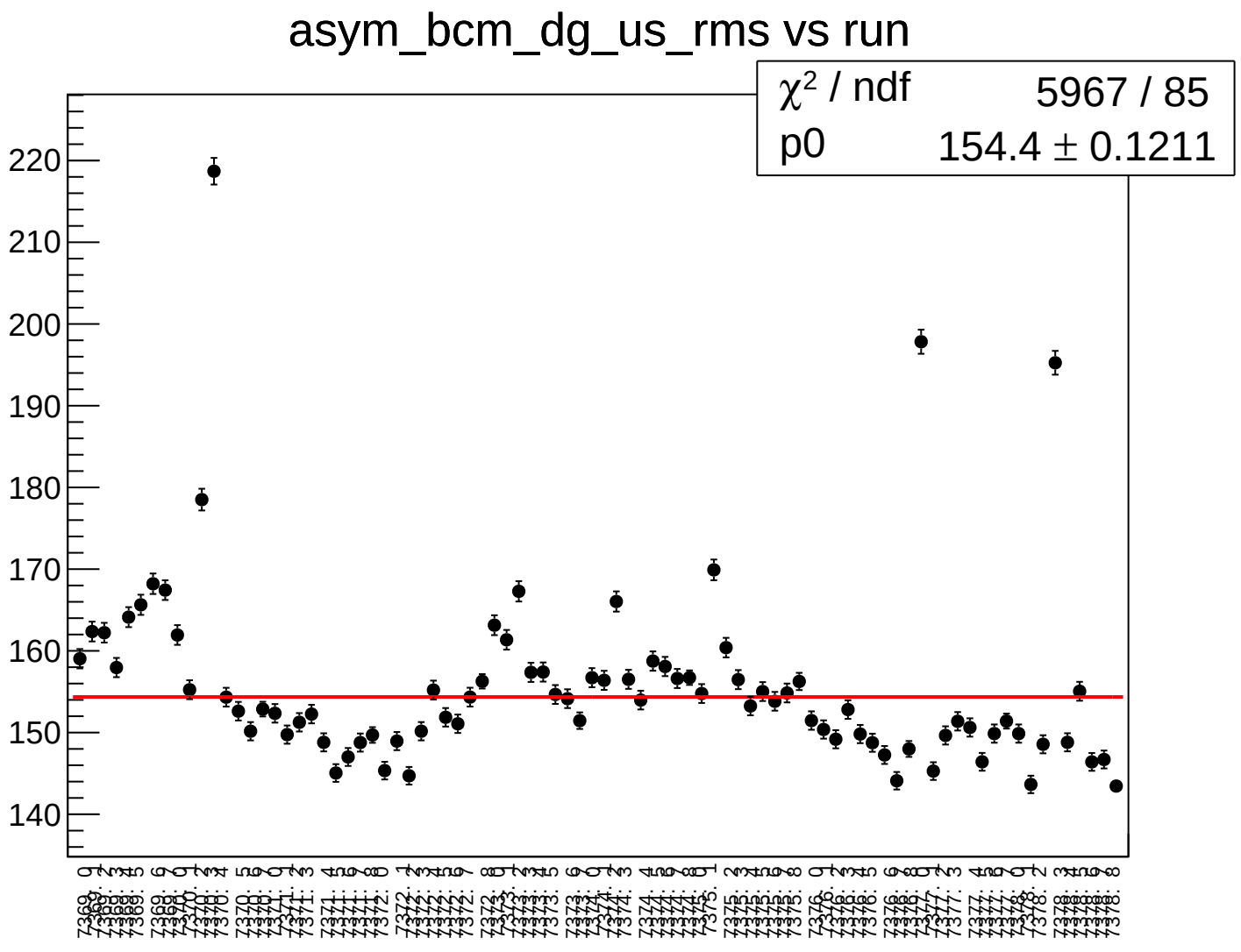

asym_bcm_an_us_mean vs run
χ² / ndf 13.16 / 85
p0 −99 ± 162.8
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −1.612
Std Dev 74.61
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

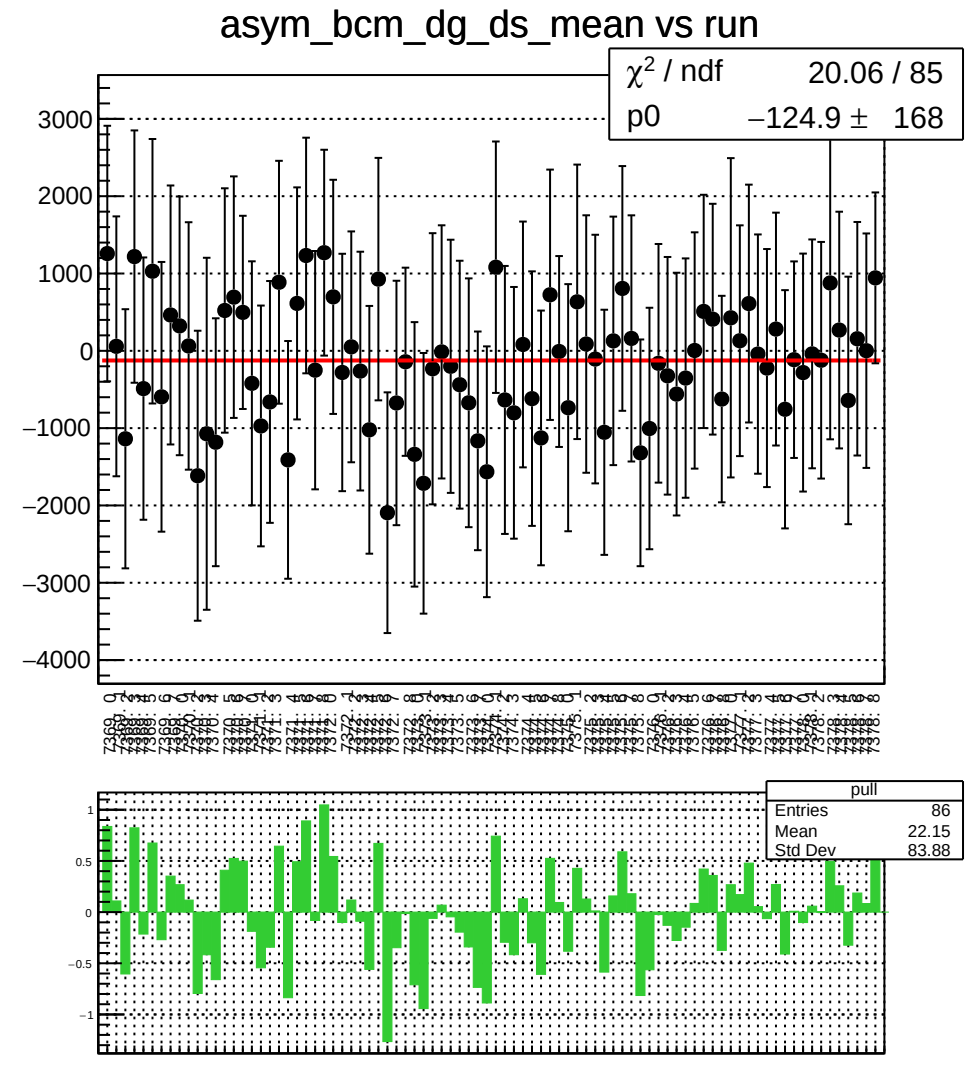

pull1D
Entries 86
Mean −0.01169
Std Dev 0.391
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

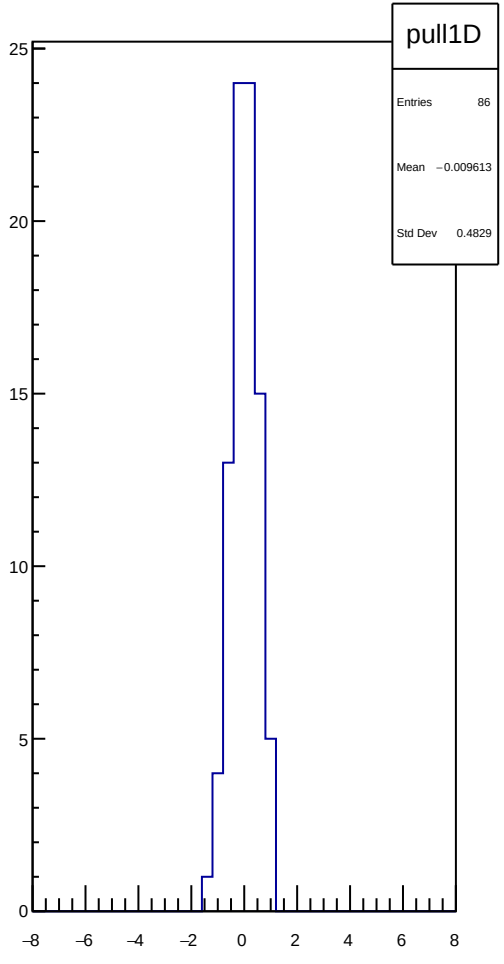

asym_bcm_an_us_rms vs run
χ² / ndf 6746 / 85
p0 146.6 ± 0.1151
220
210
200
190
180
170
160
150
140
130

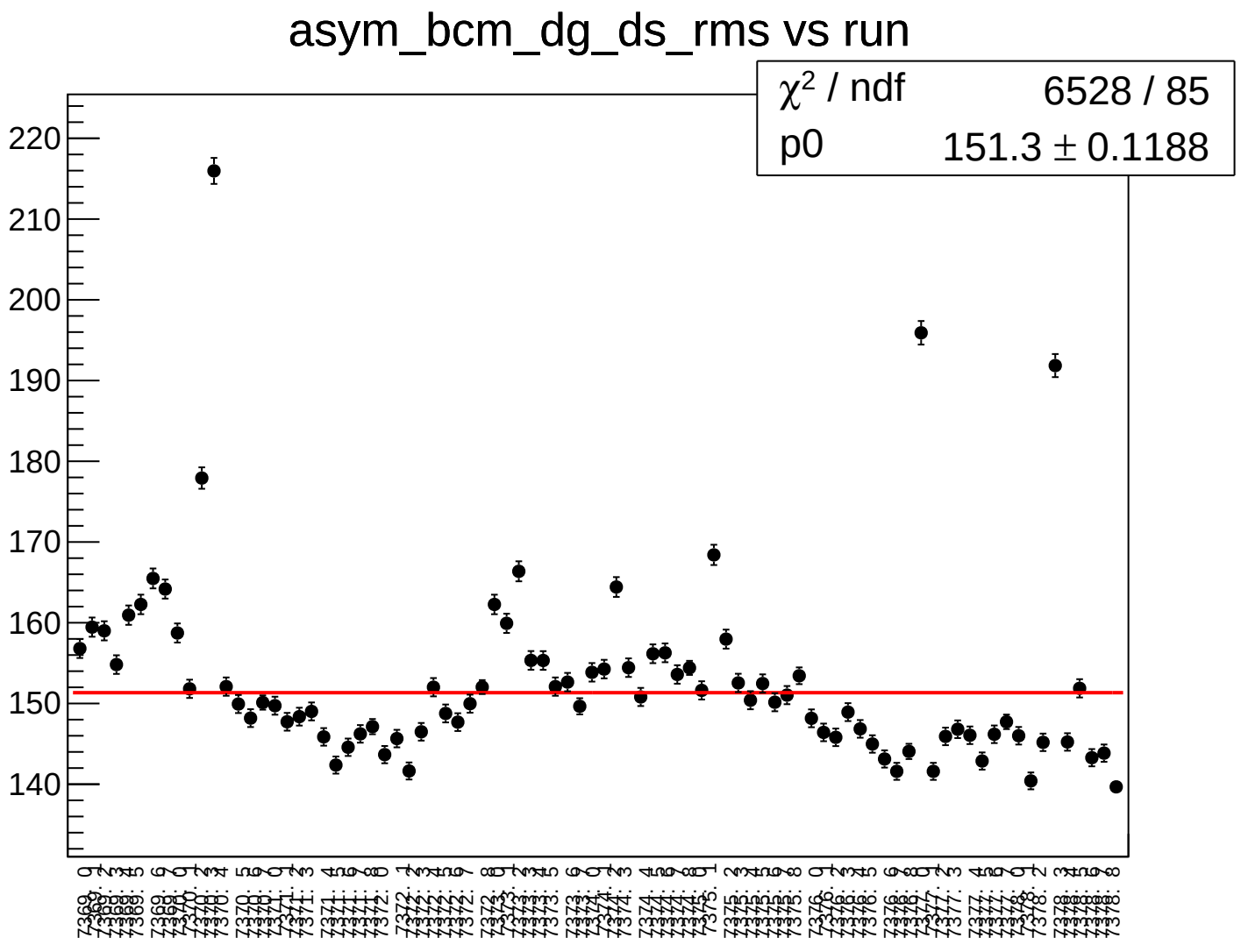

asym_bcm_dg_us_mean vs run
χ² / ndf 21.57 / 85
p0 −168.5 ± 171.3
pull
Entries 86
Mean −68.31
Std Dev 125.6

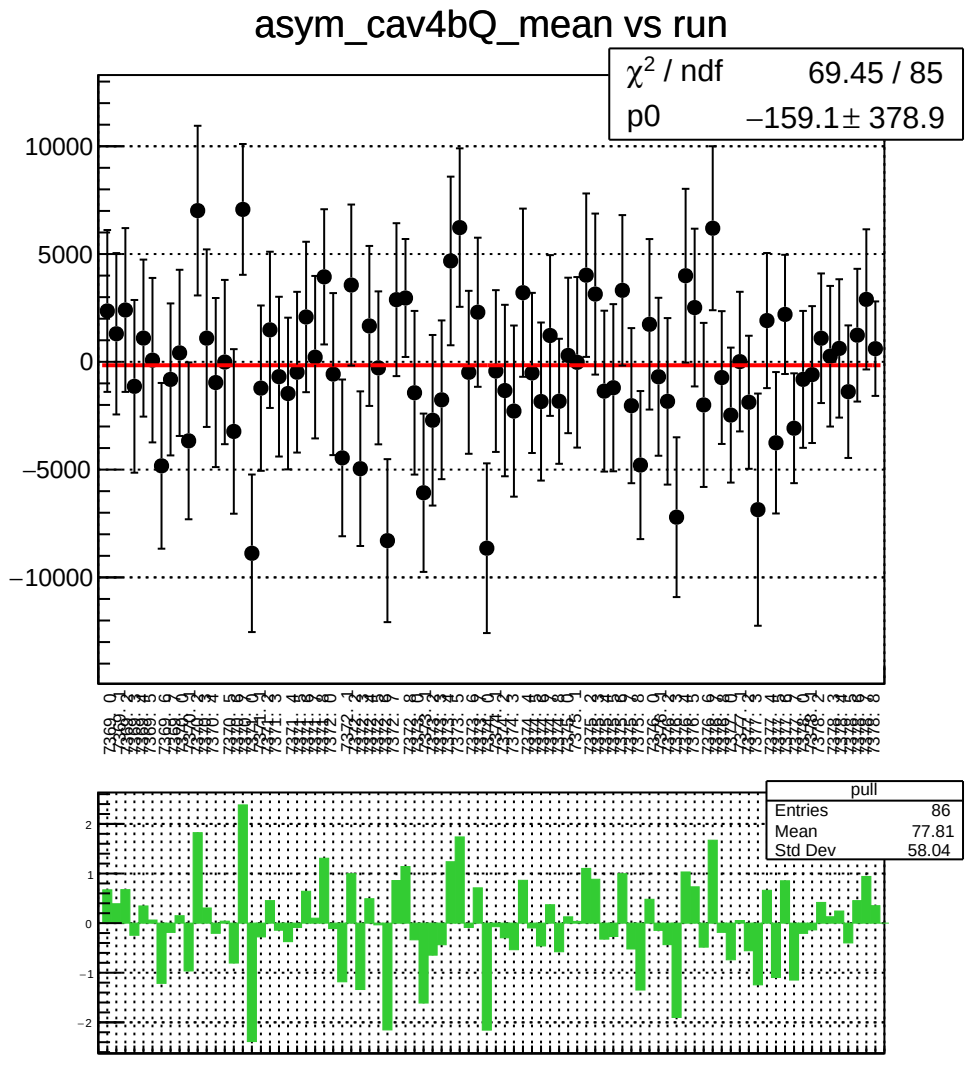

pull1D
Entries 86
Mean −0.009432
Std Dev 0.5007

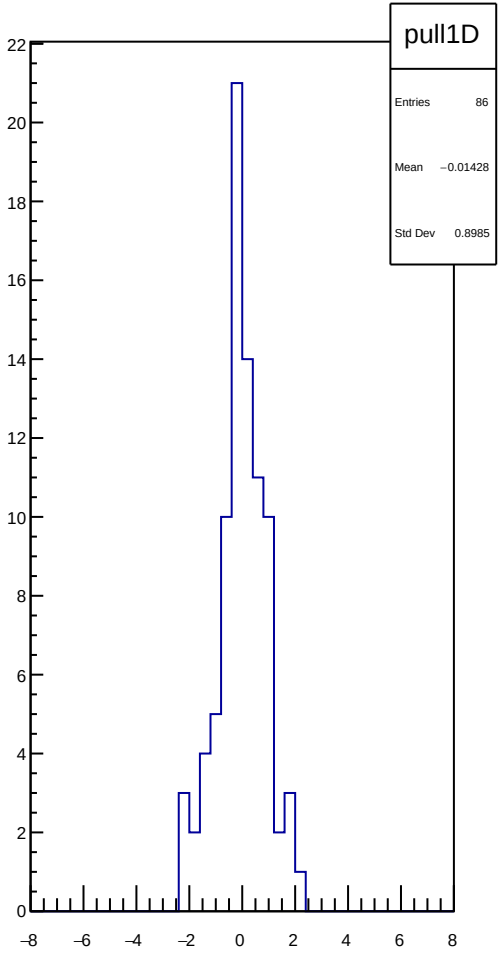

asym_bcm_dg_us_rms vs run
χ² / ndf 5967 / 85
p0 154.4 ± 0.1211
220
210
200
190
180
170
160
150
140

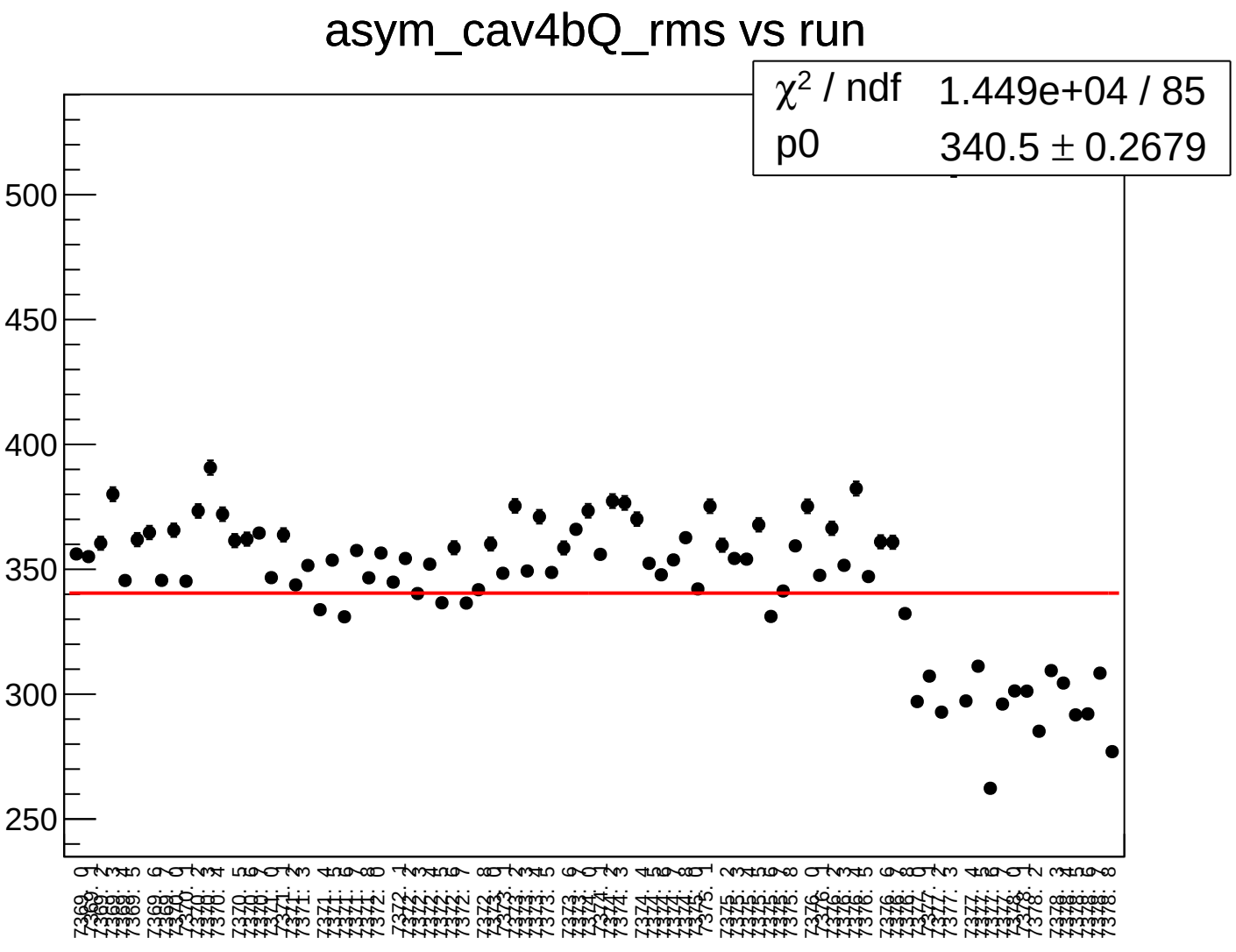

asym_bcm_dg_ds_mean vs run
χ² / ndf 20.06 / 85
p0 −124.9 ± 168
pull
Entries 86
Mean 22.15
Std Dev 83.88

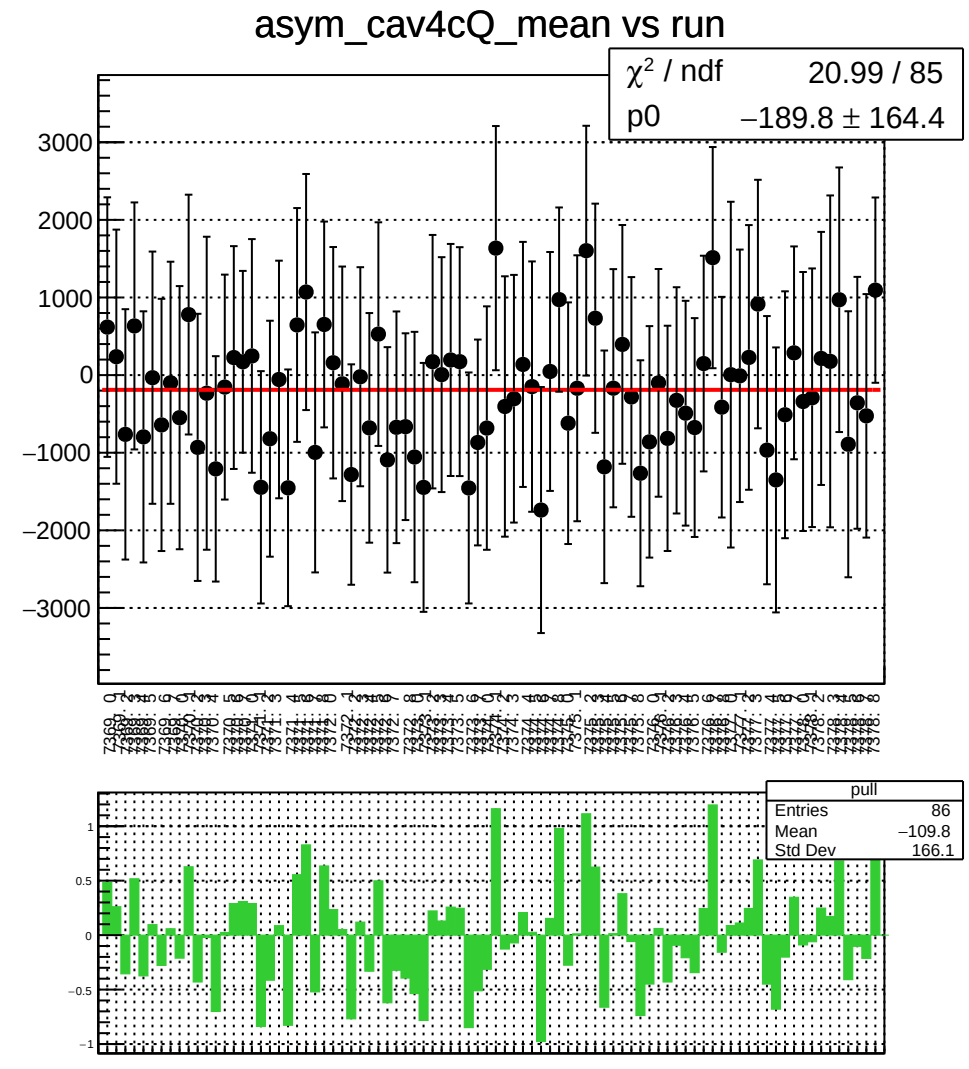

pull1D
Entries 86
Mean −0.009613
Std Dev 0.4829

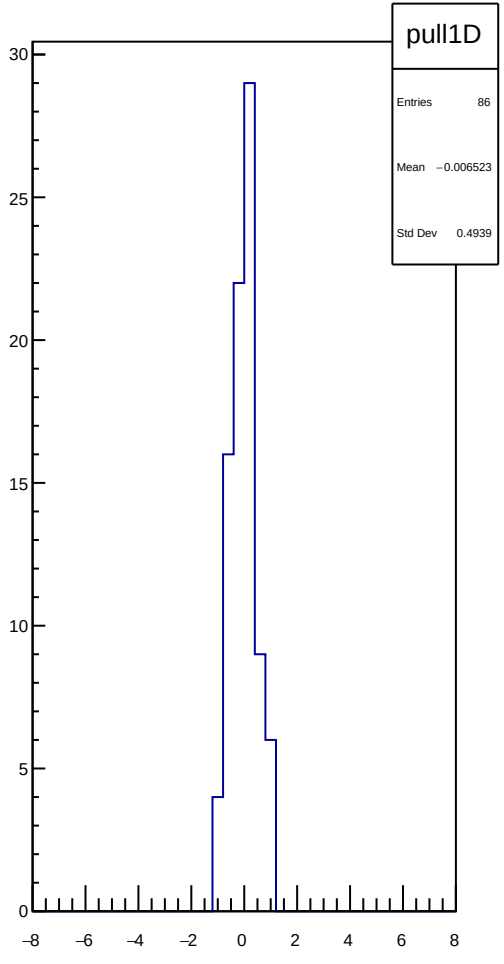

asym_bcm_dg_ds_rms vs run
χ² / ndf 6528 / 85
p0 151.3 ± 0.1188
220
210
200
190
180
170
160
150
140

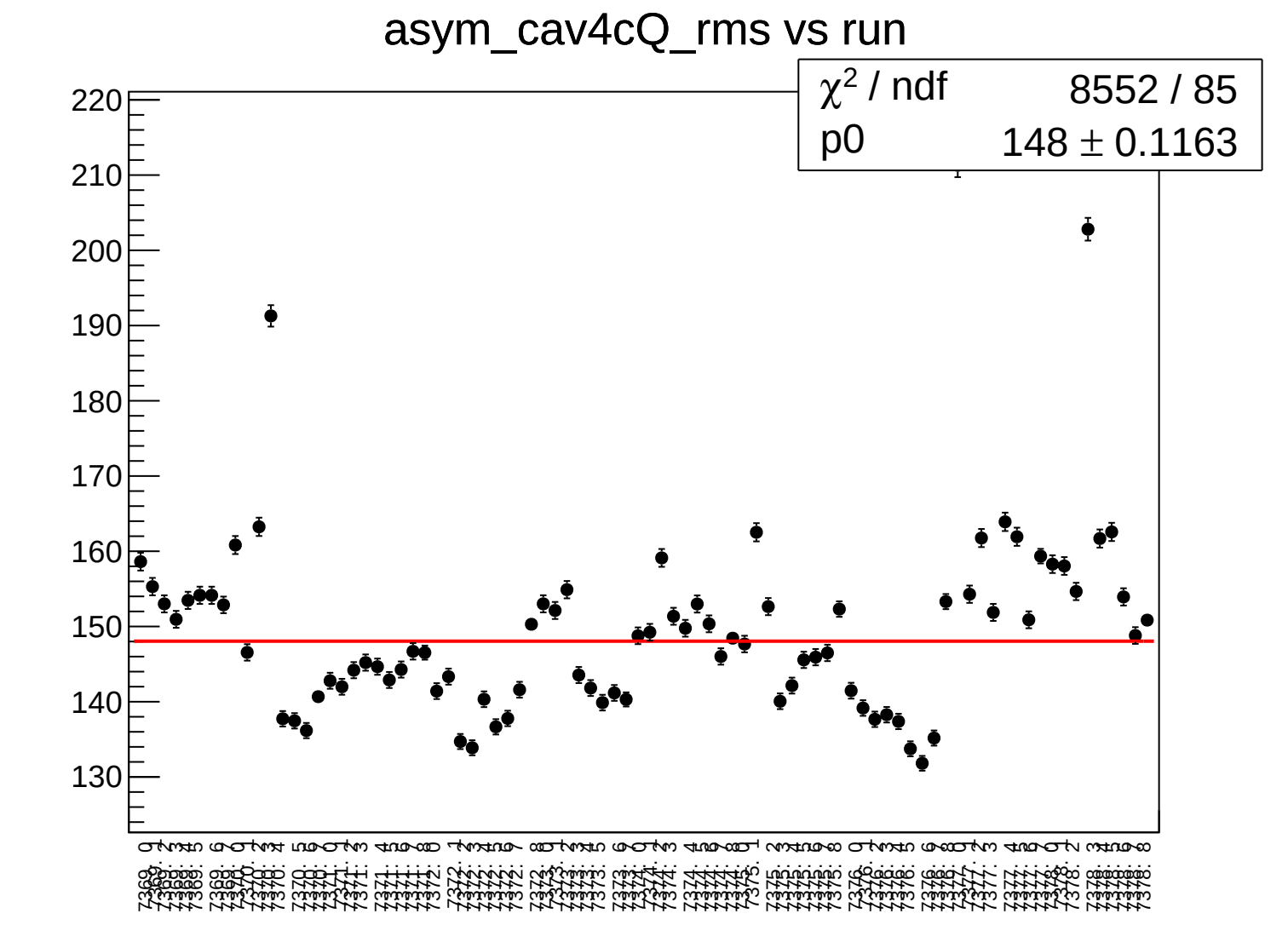

asym_cav4bQ_mean vs run
χ² / ndf 69.45 / 85
p0 −159.1± 378.9
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 77.81
Std Dev 58.04
2
1
0
−1
−2

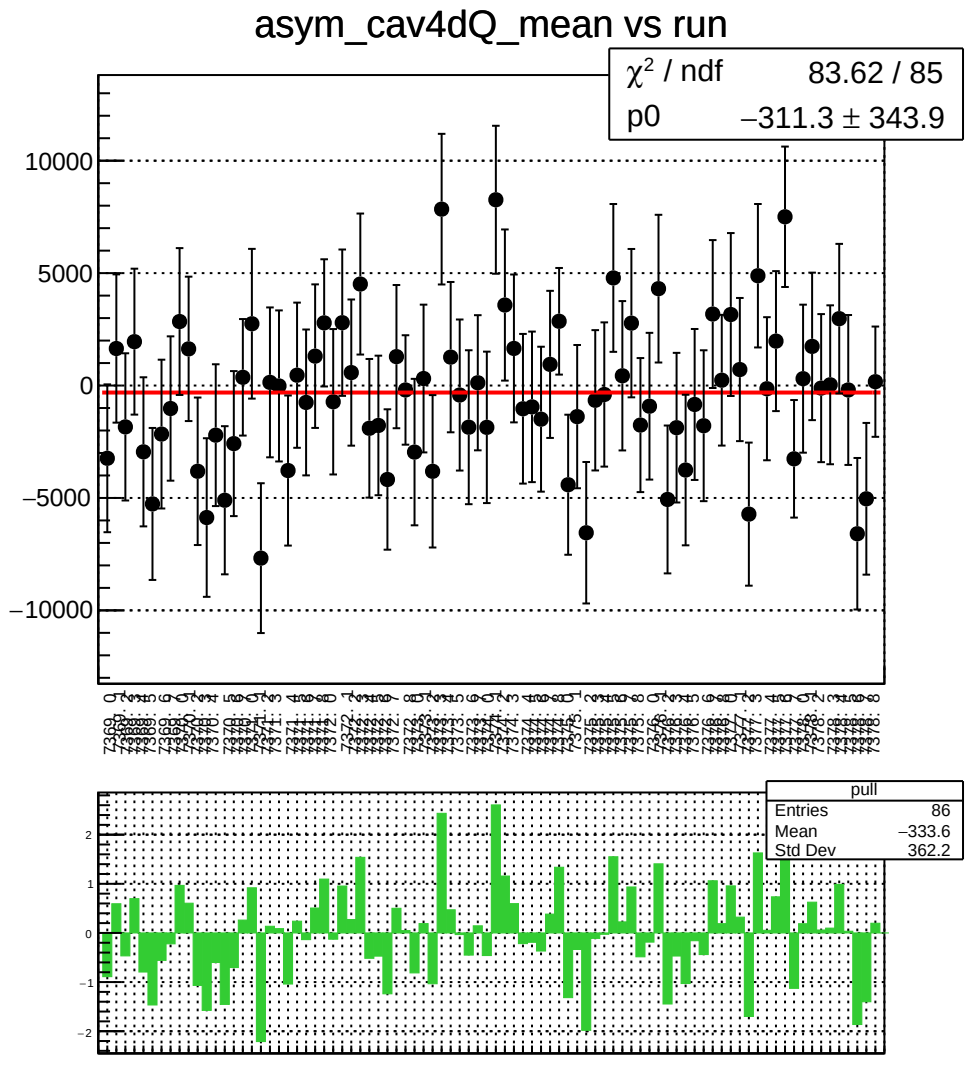

pull1D
Entries 86
Mean −0.01428
Std Dev 0.8985
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

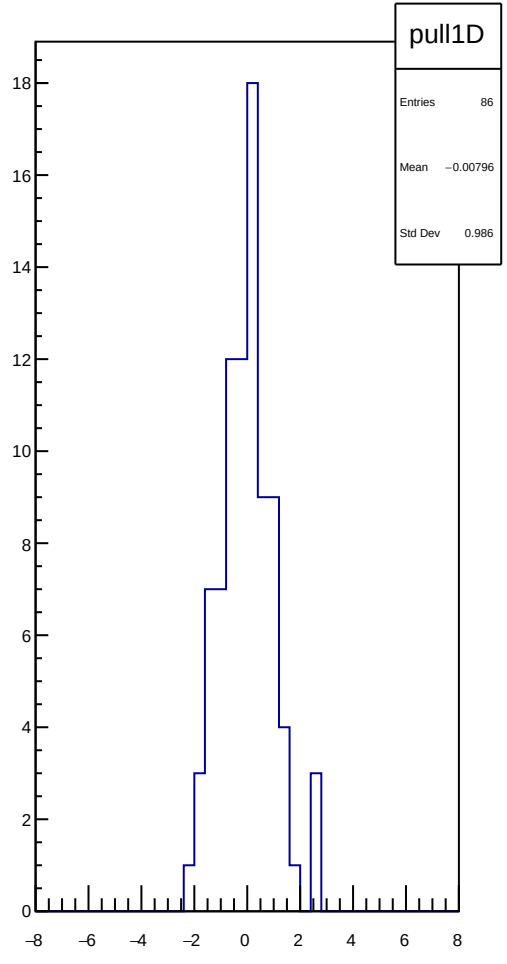

asym_cav4bQ_rms vs run
χ² / ndf 1.449e+04 / 85
p0 340.5 ± 0.2679
500
450
400
350
300
250

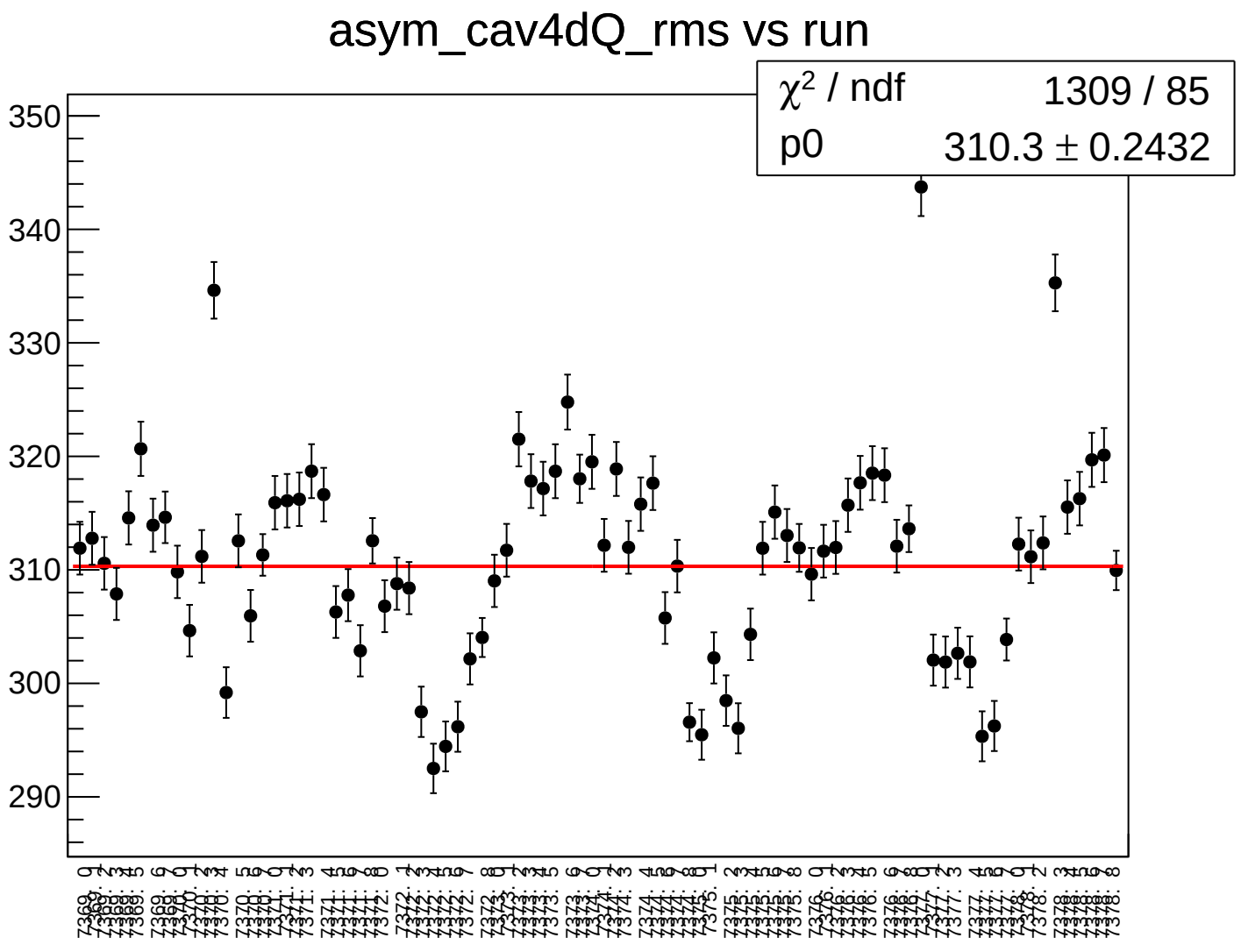

asym_cav4cQ_mean vs run
χ² / ndf 20.99 / 85
p0 −189.8 ± 164.4
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −109.8
Std Dev 166.1
1
0.5
0
−0.5
−1

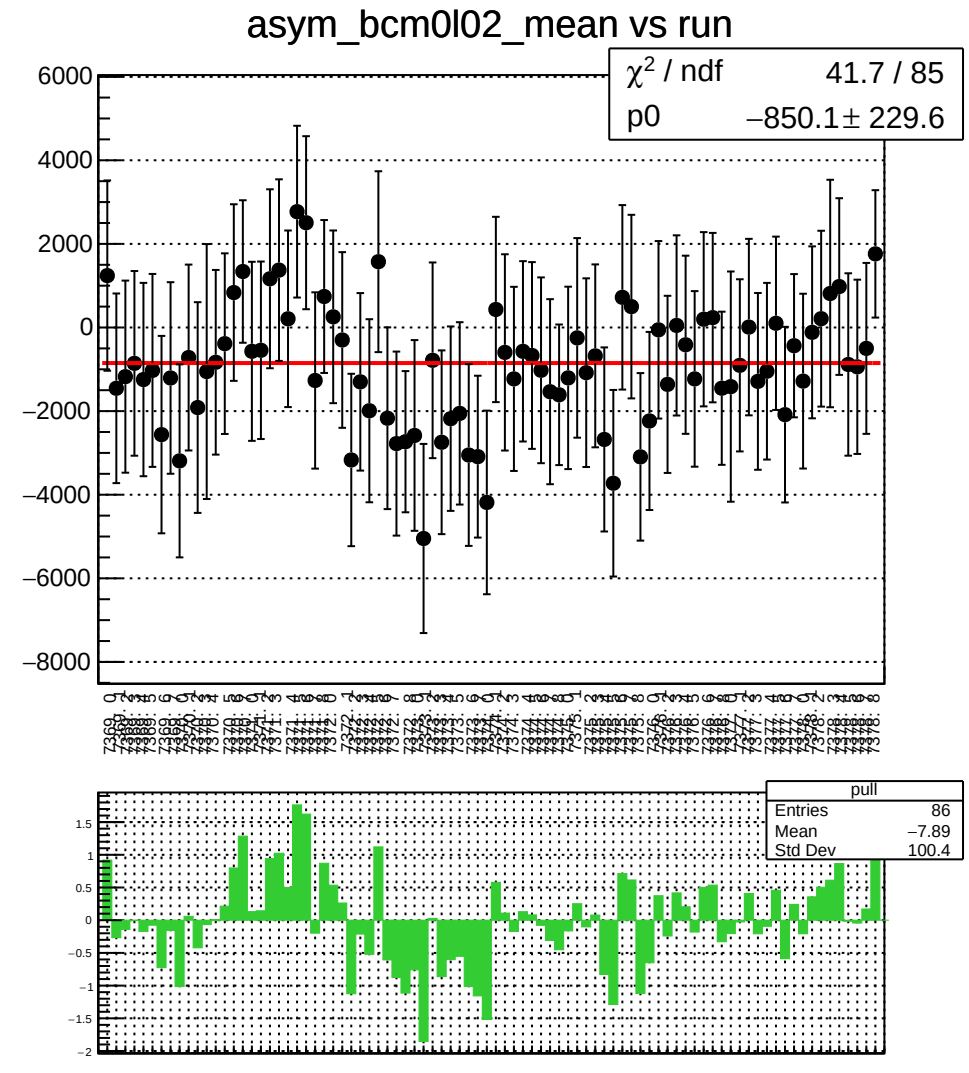

pull1D
Entries 86
Mean −0.006523
Std Dev 0.4939
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

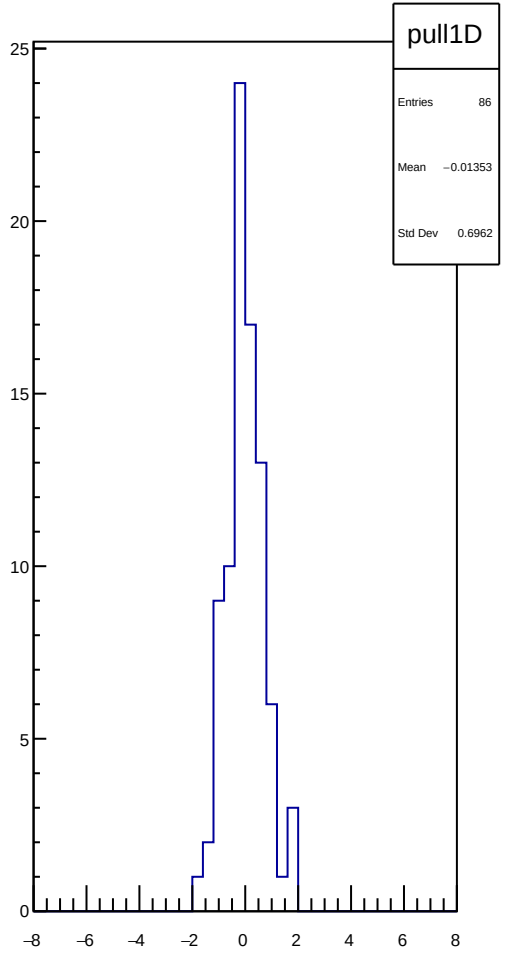

asym_cav4cQ_rms vs run
χ^2 / ndf 8552 / 85
p0 148 ± 0.1163
220
210
200
190
180
170
160
150
140
130

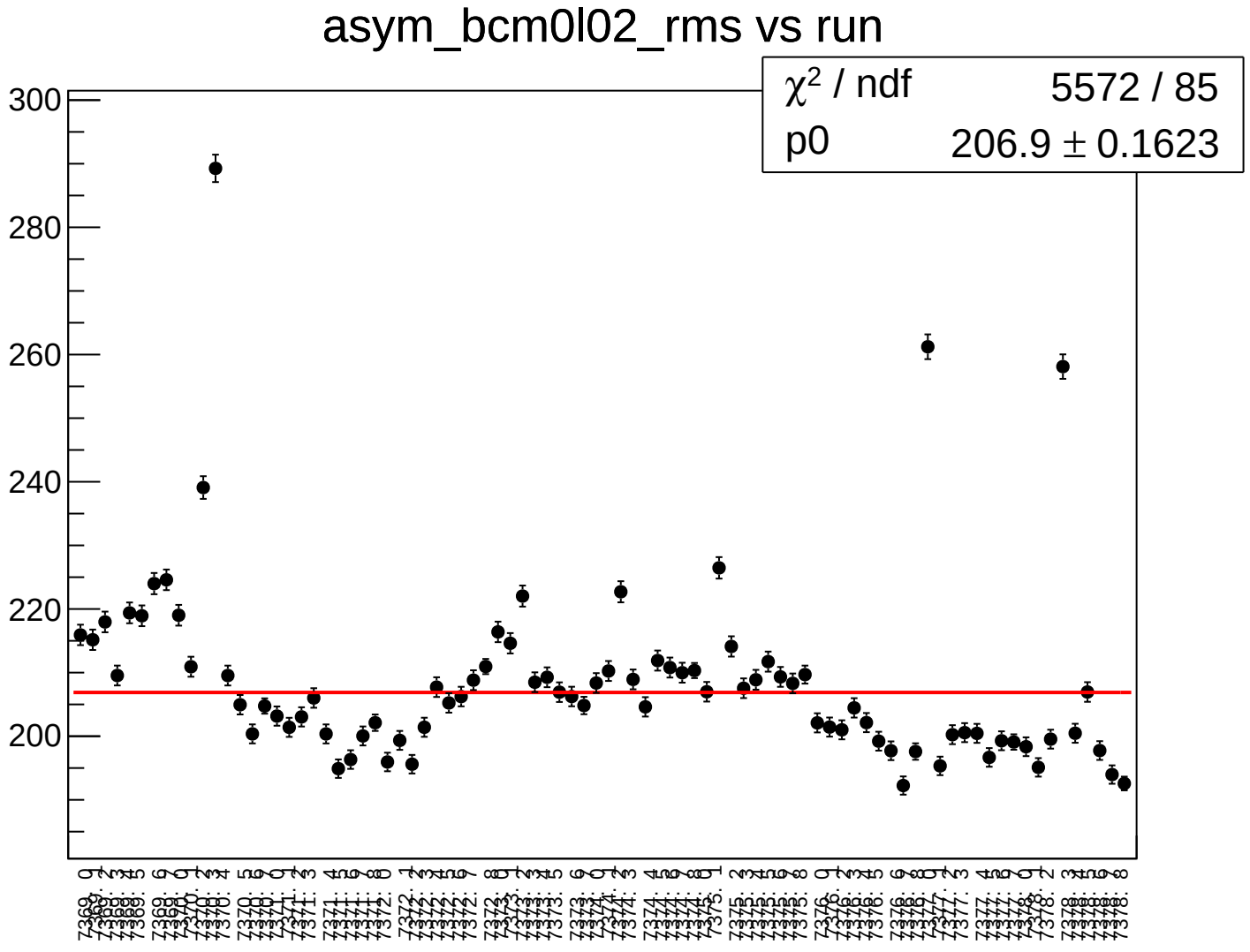

asym_cav4dQ_mean vs run
χ² / ndf 83.62 / 85
p0 −311.3 ± 343.9
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −333.6
Std Dev 362.2
2
1
0
−1
−2

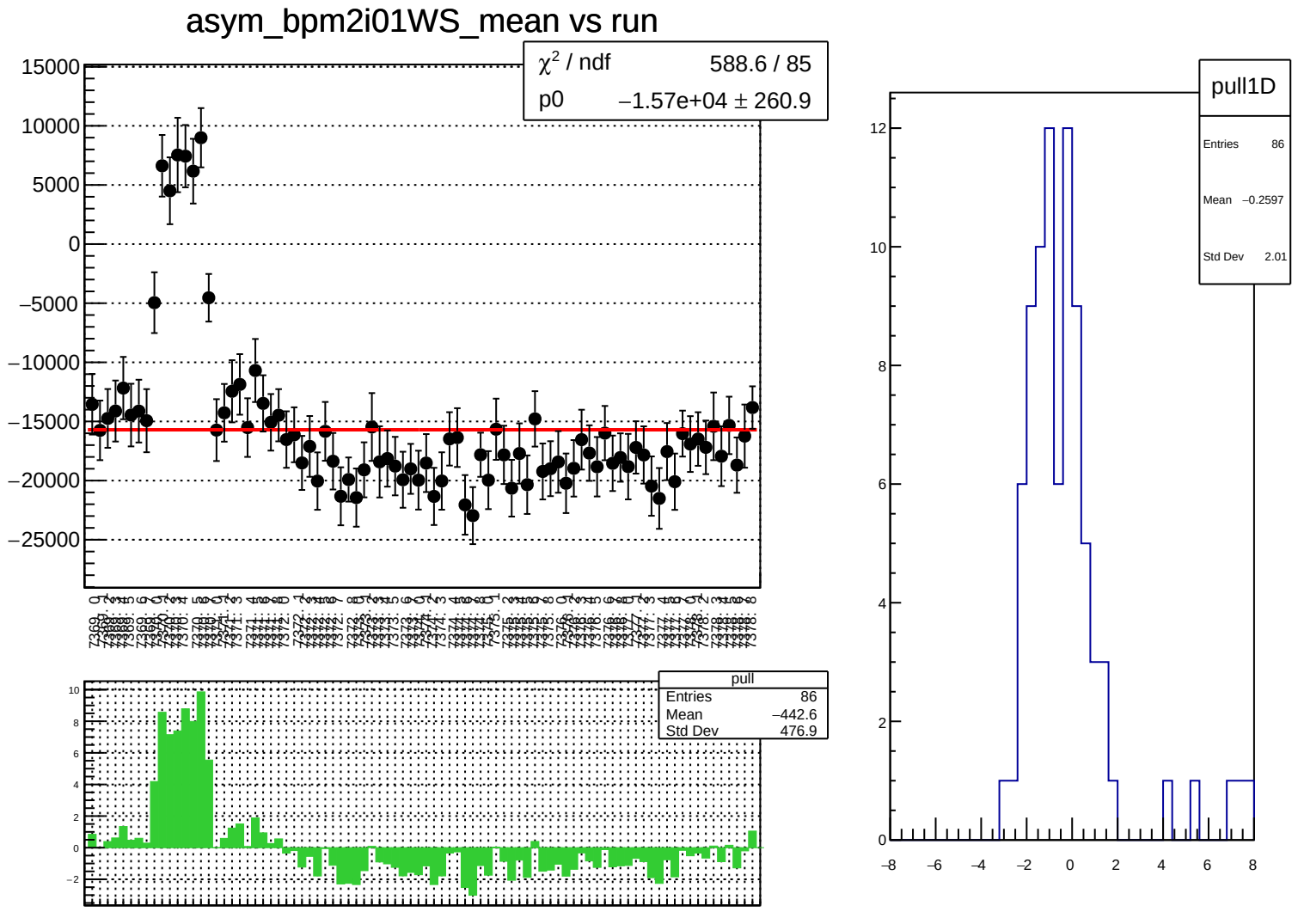

pull1D
Entries 86
Mean −0.00796
Std Dev 0.986
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

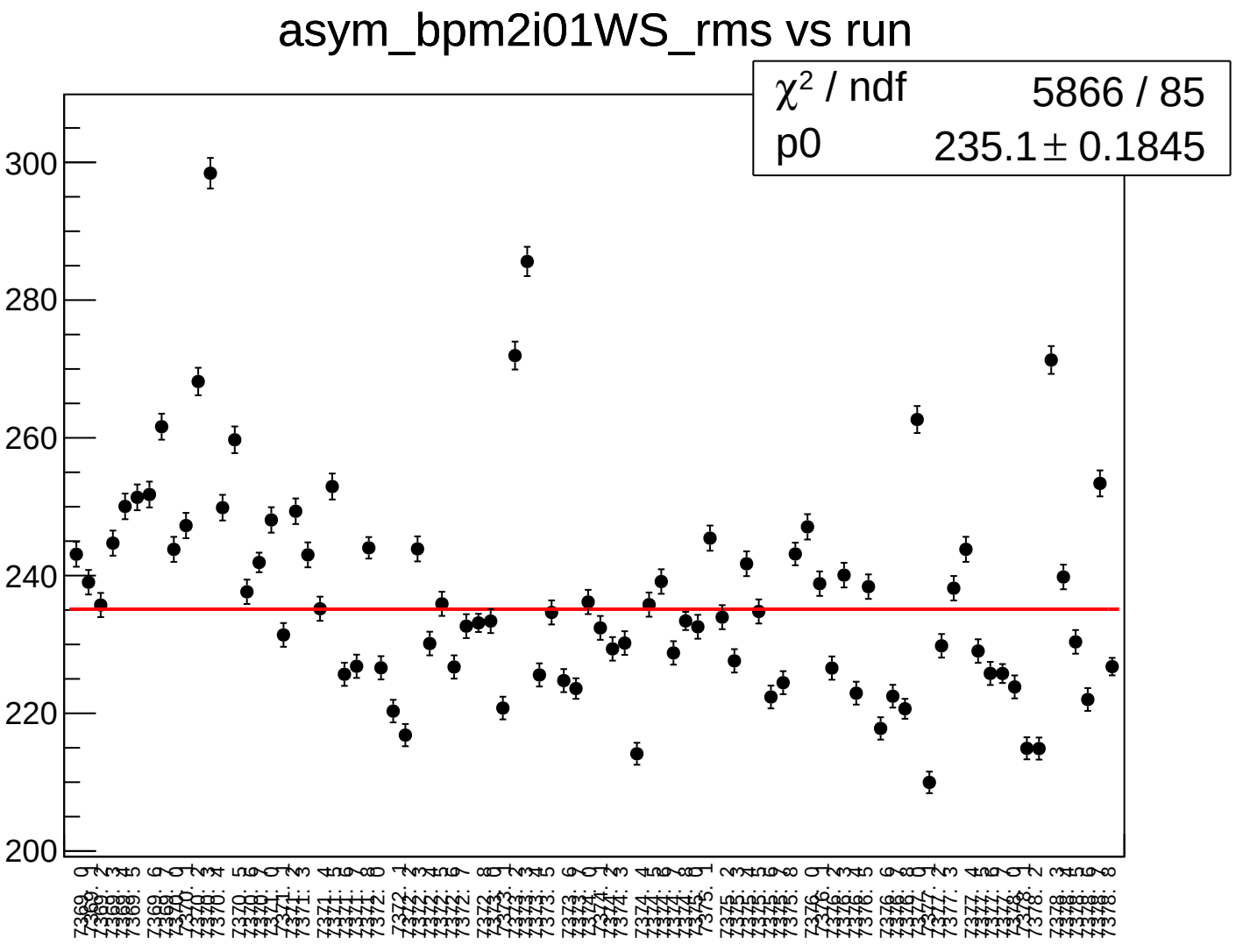

asym_cav4dQ_rms vs run
χ² / ndf 1309 / 85
p0 310.3 ± 0.2432
350
340
330
320
310
300
290

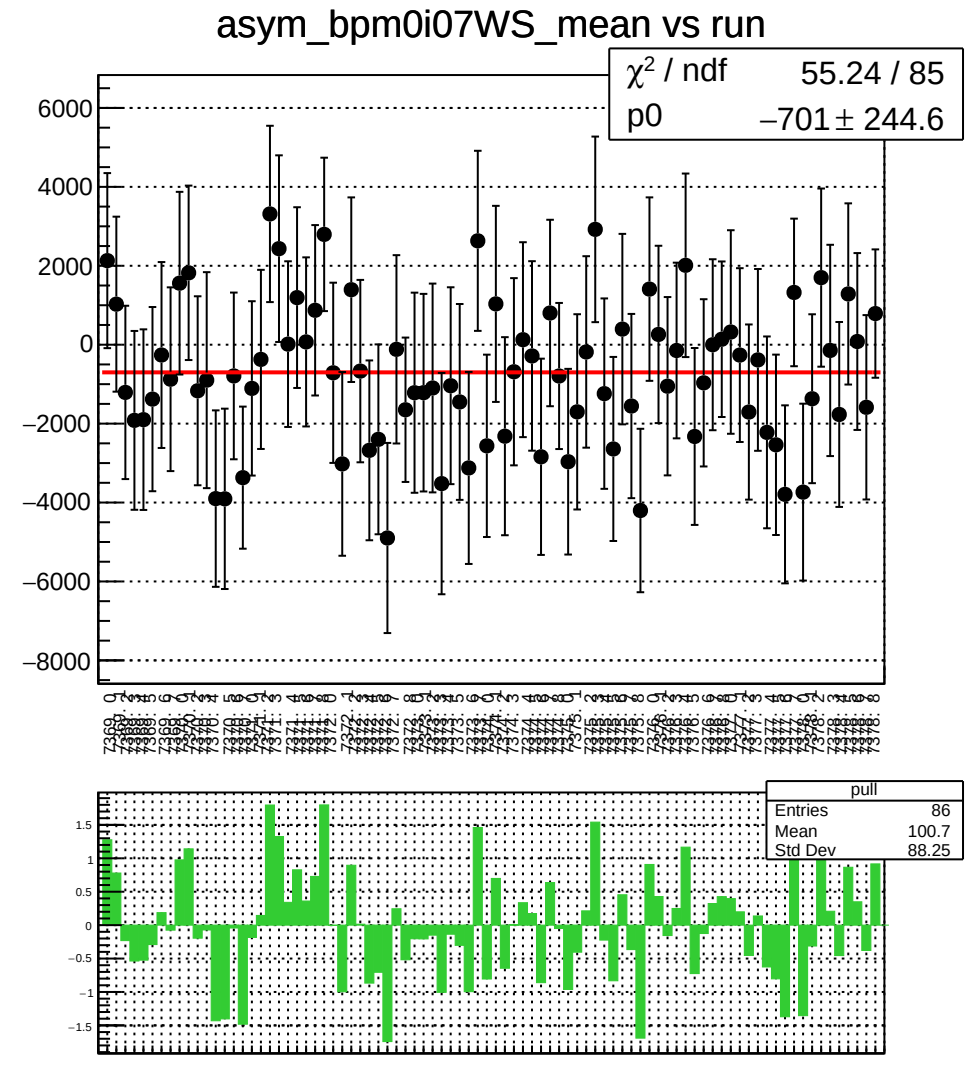

asym_bcm0l02_mean vs run
χ² / ndf 41.7 / 85
p0 −850.1± 229.6
pull
Entries 86
Mean −7.89
Std Dev 100.4

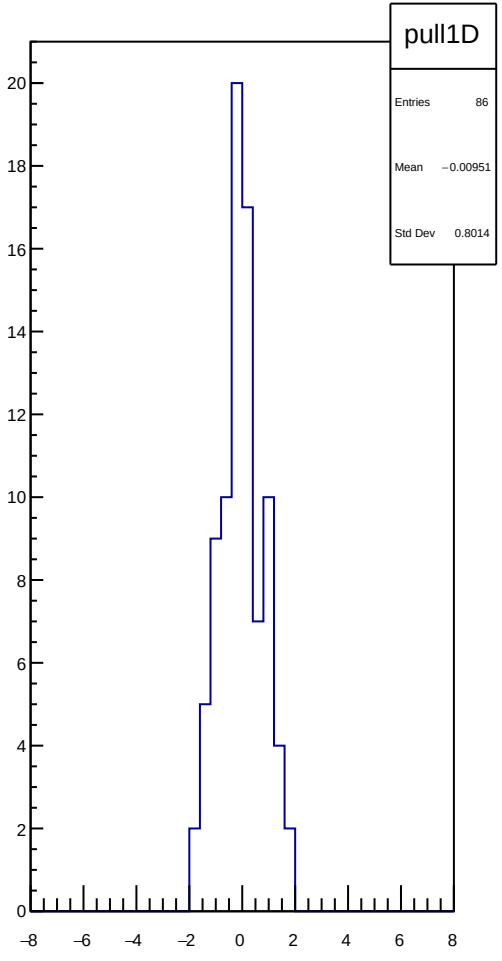

pull1D
Entries 86
Mean −0.01353
Std Dev 0.6962

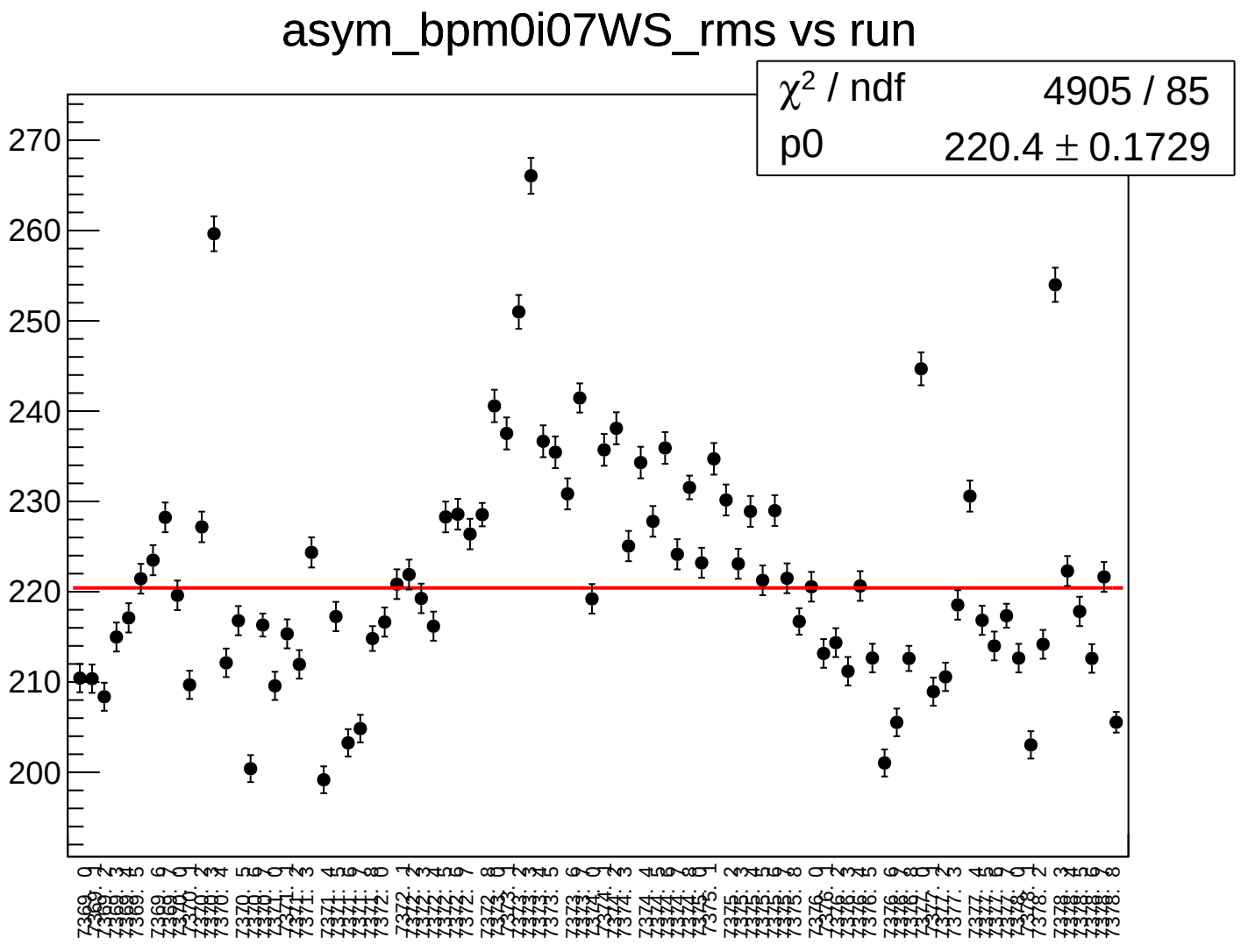

asym_bcm0l02_rms vs run
χ² / ndf 5572 / 85
p0 206.9 ± 0.1623
300
280
260
240
220
200

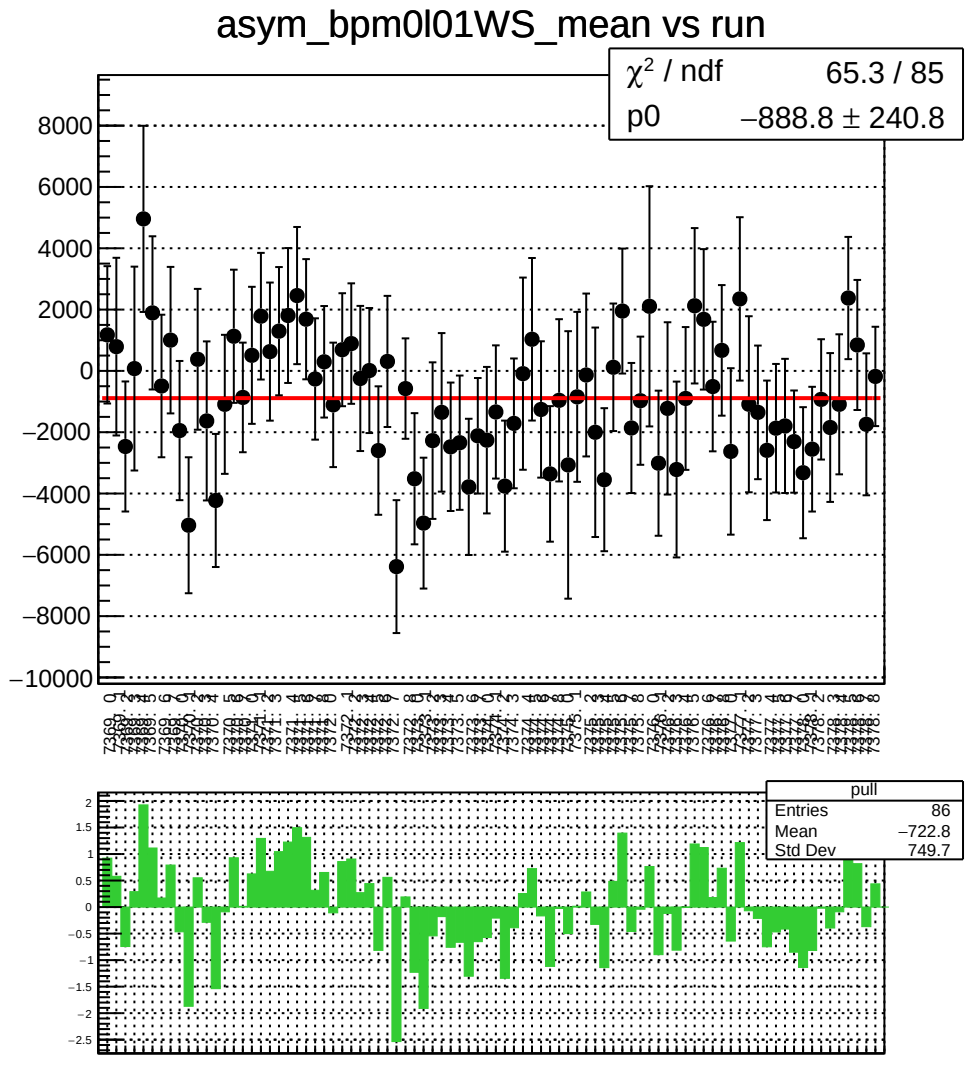

asym_bpm2i01WS_mean vs run
χ² / ndf 588.6 / 85
p0 −1.57e+04 ± 260.9
pull
Entries 86
Mean −442.6
Std Dev 476.9
pull1D
Entries 86
Mean −0.2597
Std Dev 2.01

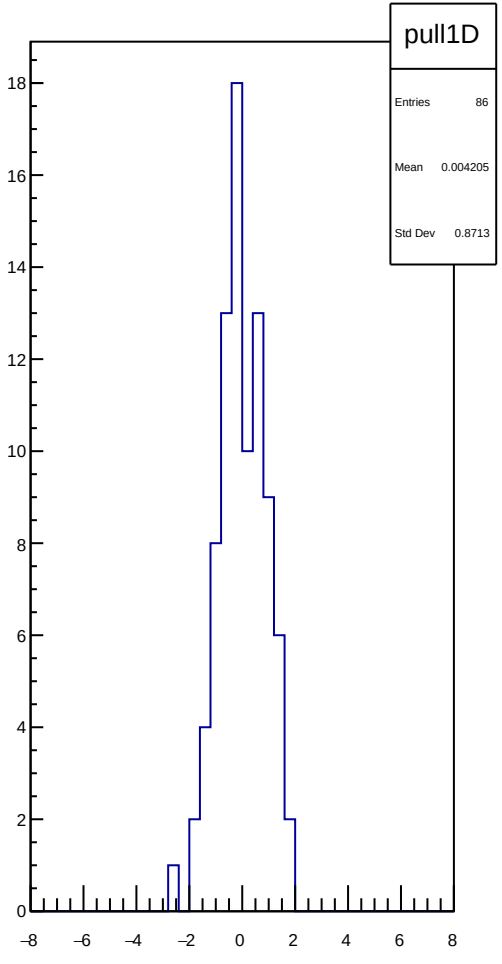

asym_bpm2i01WS_rms vs run
χ² / ndf 5866 / 85
p0 235.1 ± 0.1845
300
280
260
240
220
200

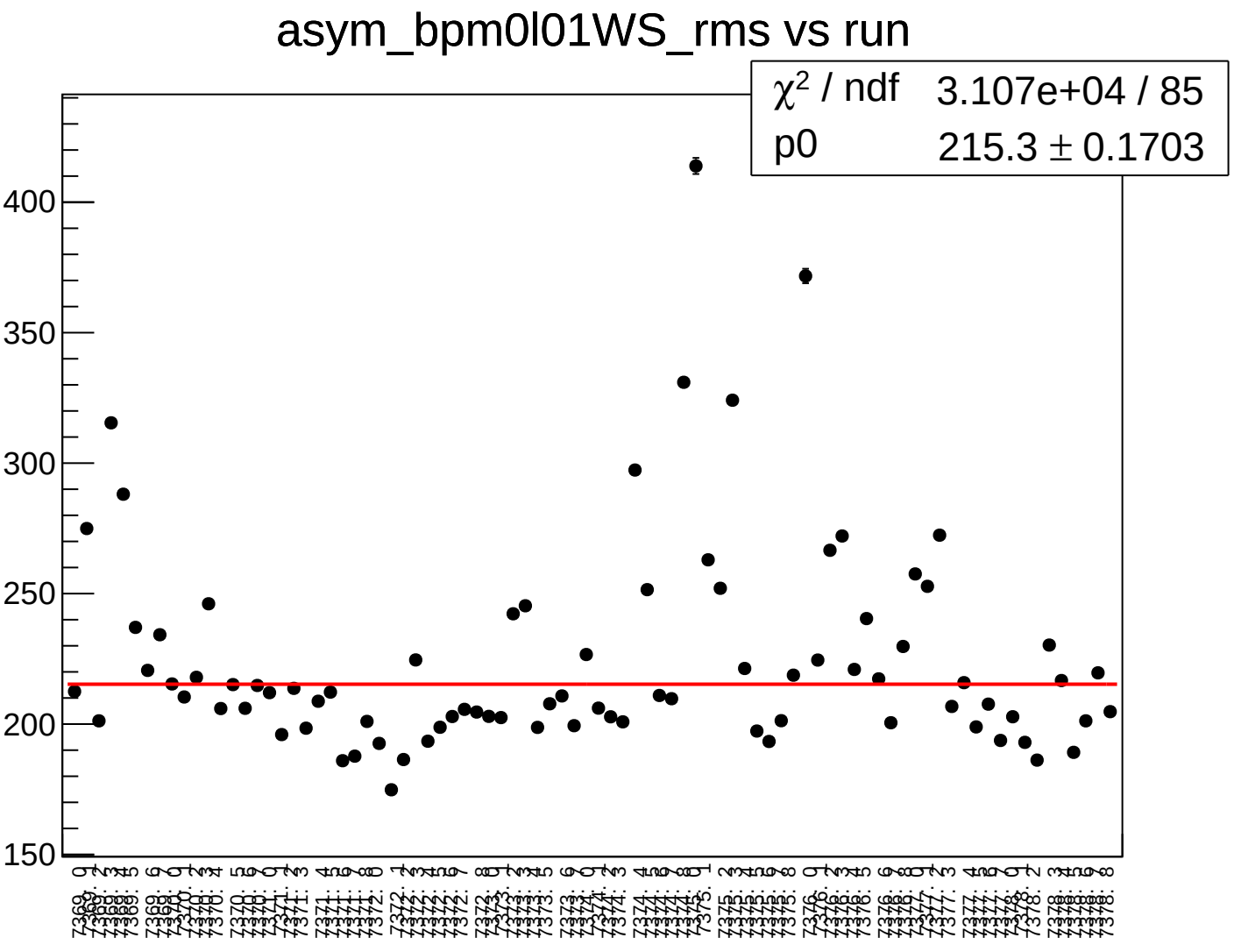

asym_bpm0i07WS_mean vs run
χ² / ndf 55.24 / 85
p0 −701 ± 244.6
pull
Entries 86
Mean 100.7
Std Dev 88.25

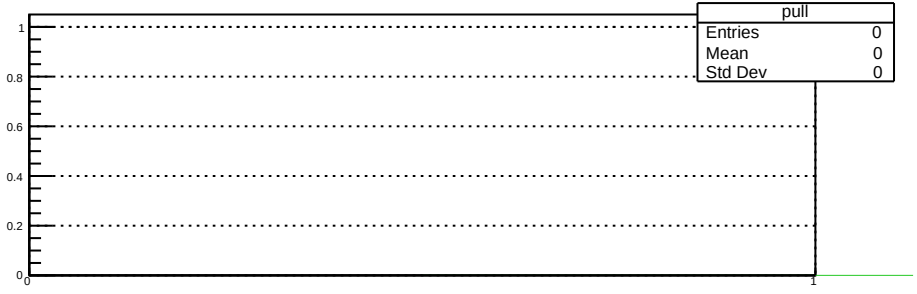

pull1D
Entries 86
Mean −0.00951
Std Dev 0.8014

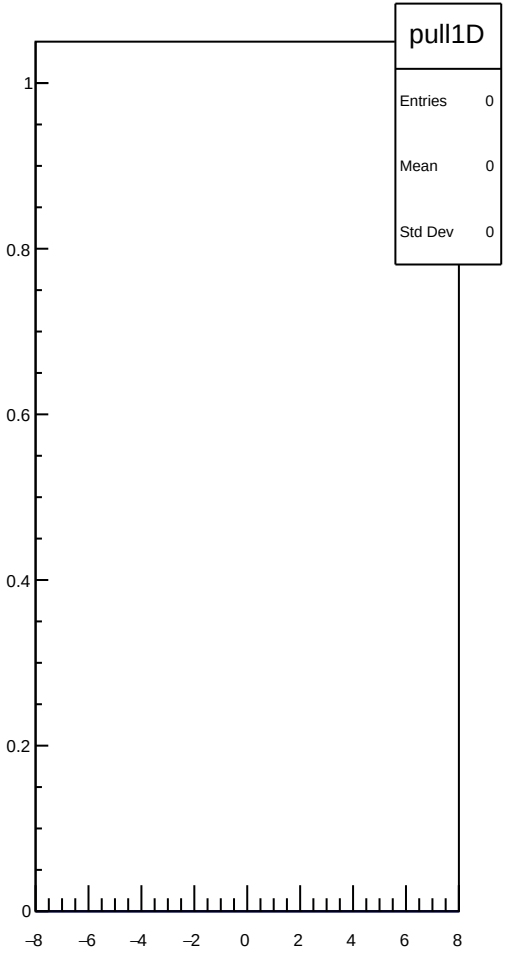

asym_bpm0i07WS_rms vs run
χ² / ndf 4905 / 85
p0 220.4 ± 0.1729
270
260
250
240
230
220
210
200

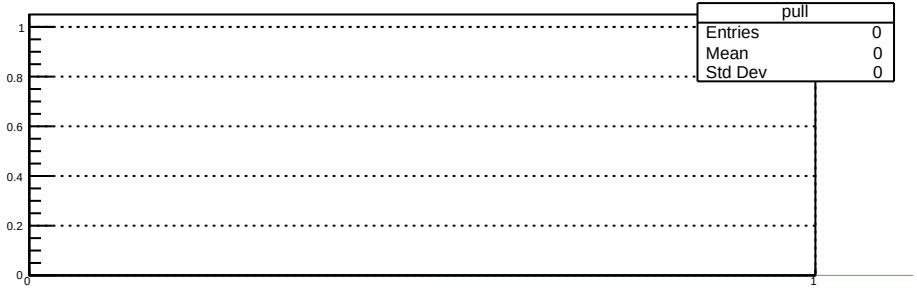

asym_bpm0l01WS_mean vs run
χ² / ndf 65.3 / 85
p0 −888.8 ± 240.8
pull
Entries 86
Mean −722.8
Std Dev 749.7

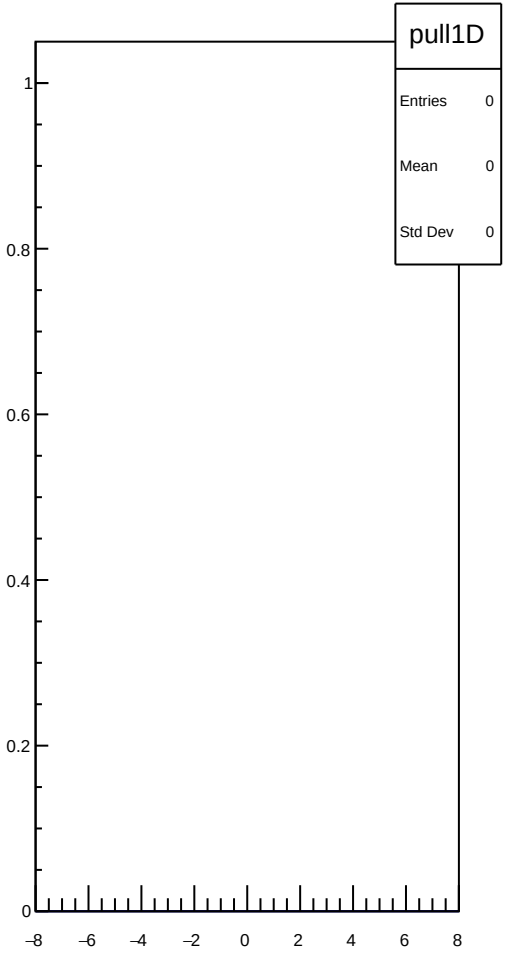

pull1D
Entries 86
Mean 0.004205
Std Dev 0.8713

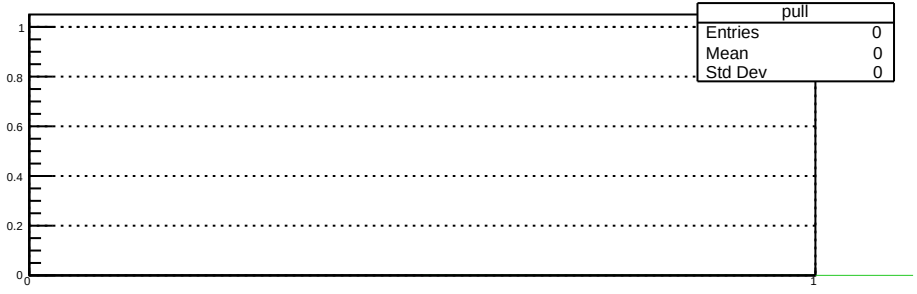

asym_bpm0l01WS_rms vs run
χ^2 / ndf 3.107e+04 / 85
p0 215.3 ± 0.1703
400
350
300
250
200
150

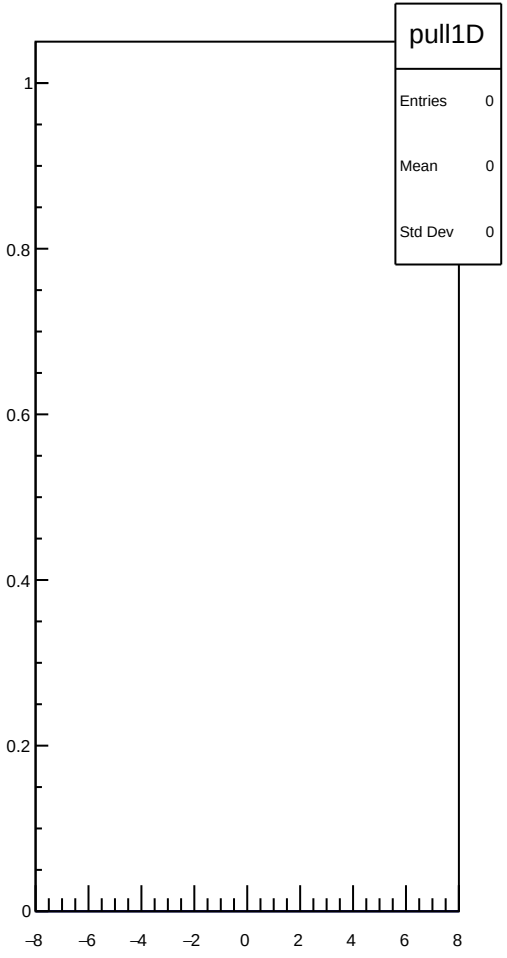

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

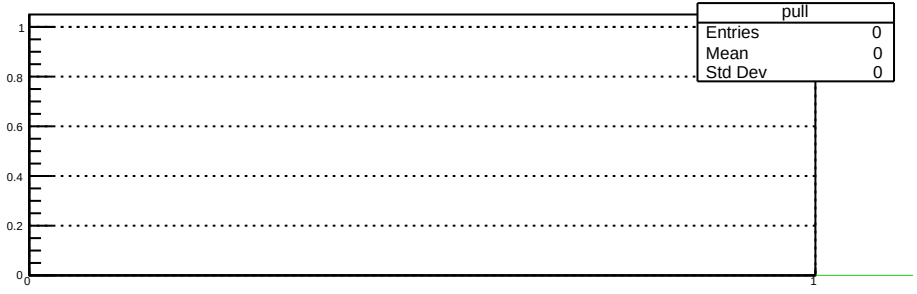

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

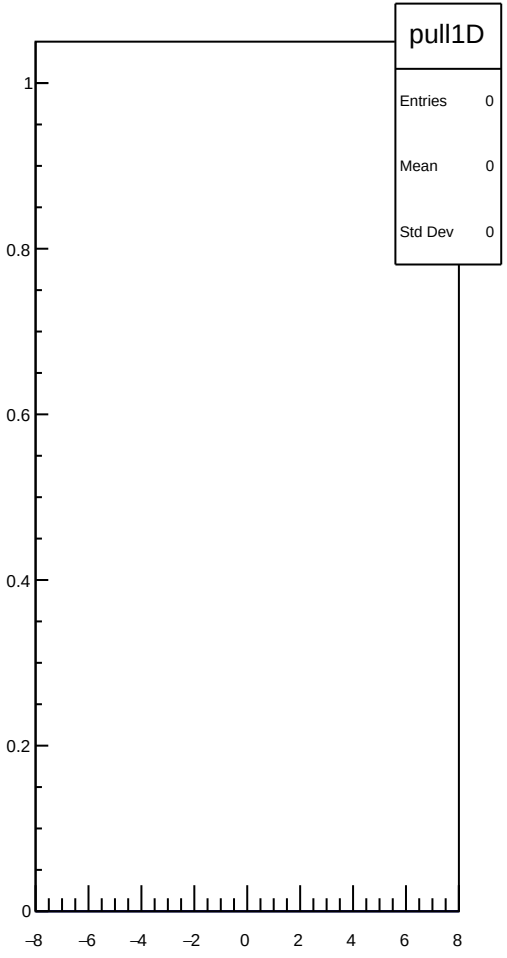

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

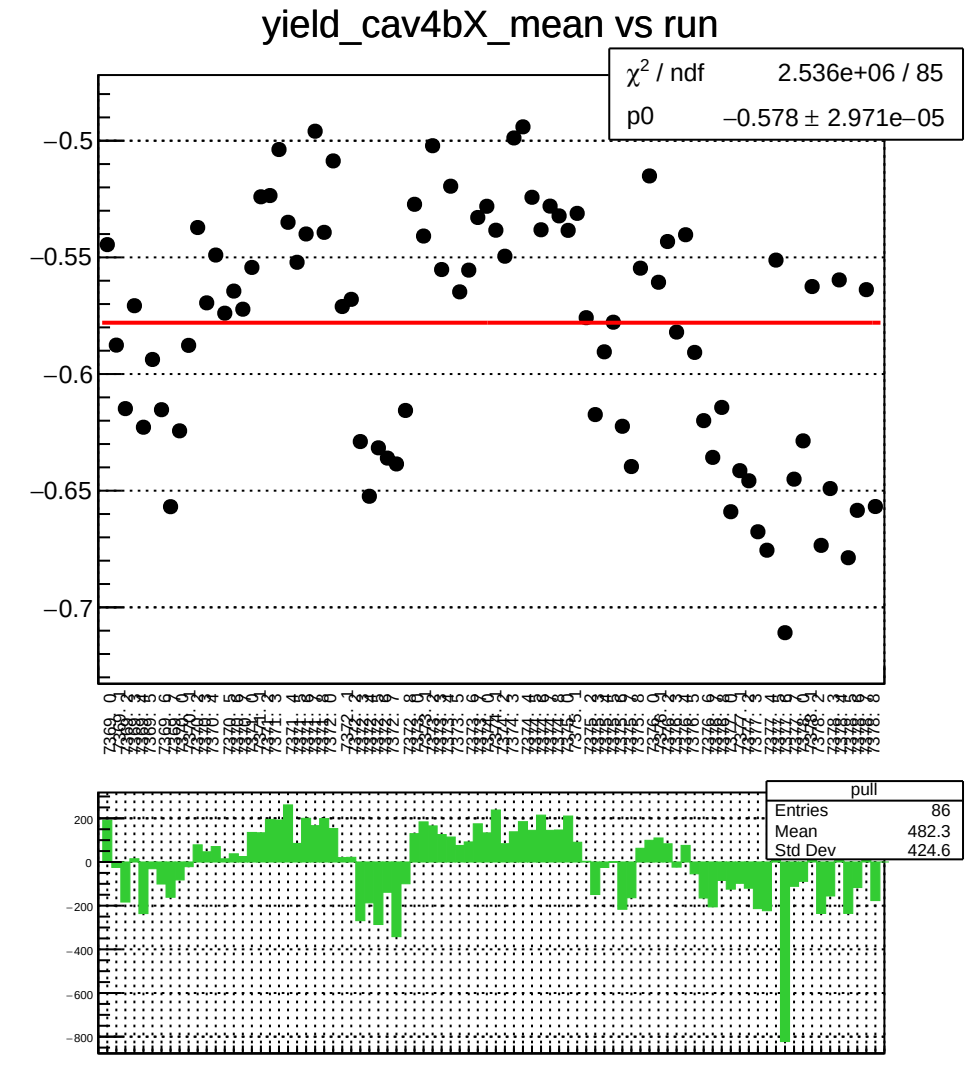

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

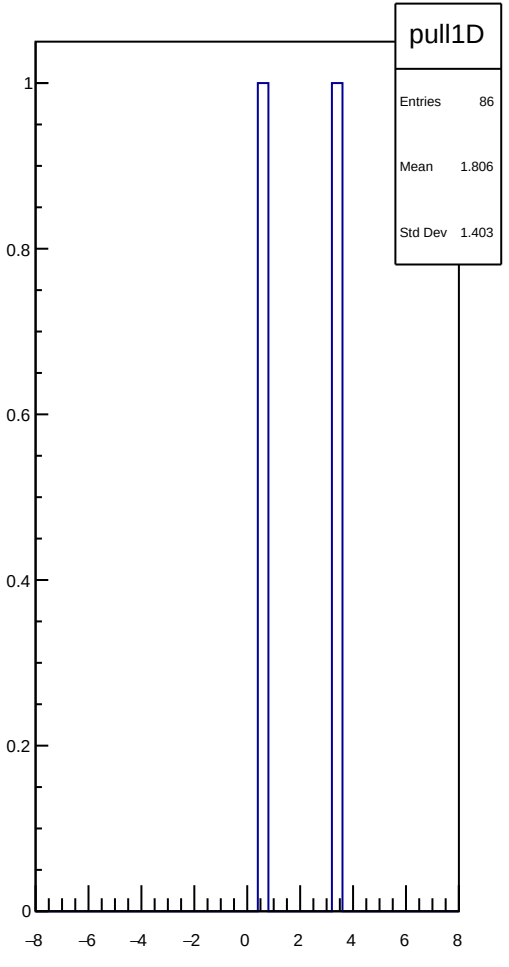

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

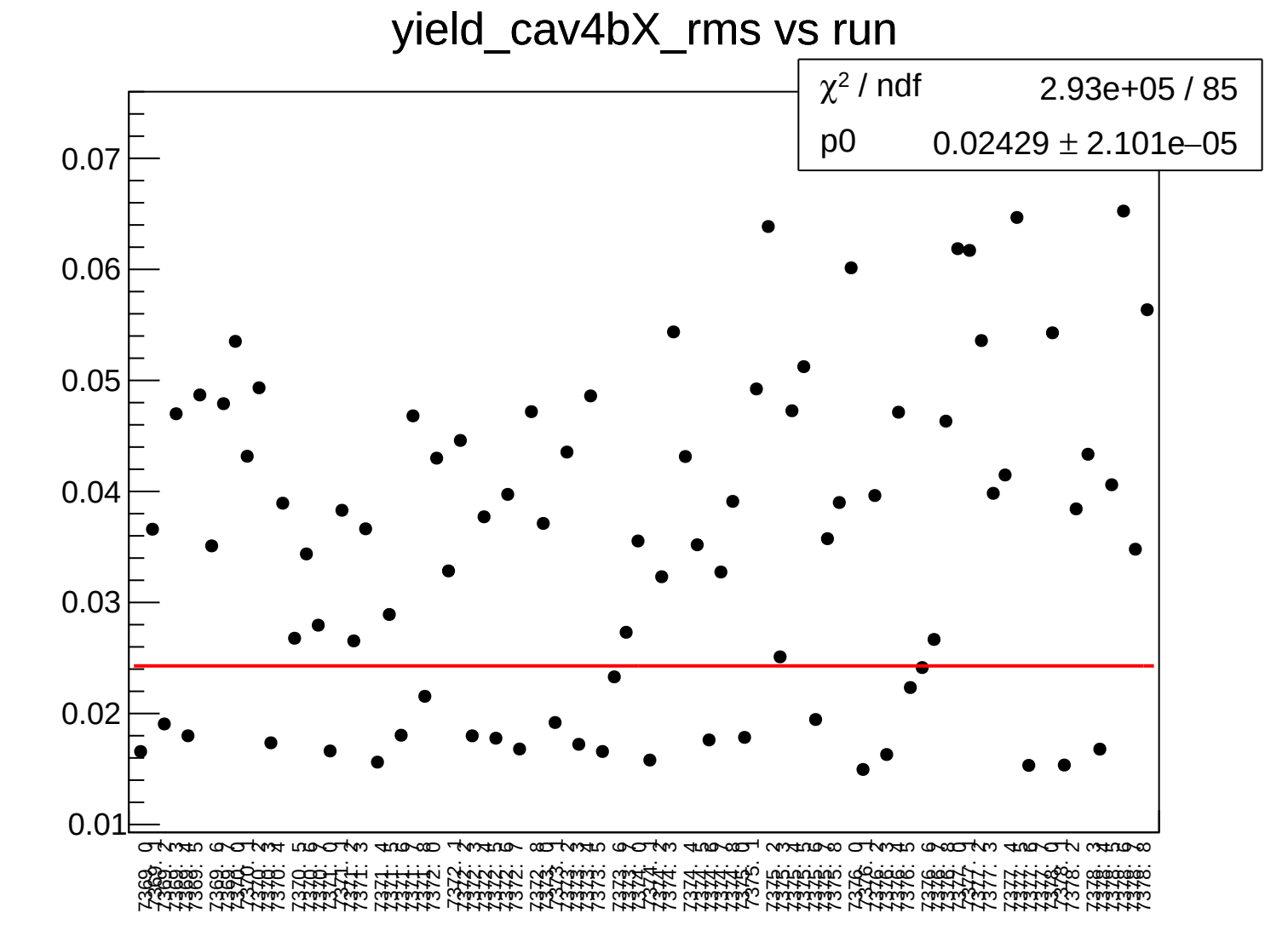

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

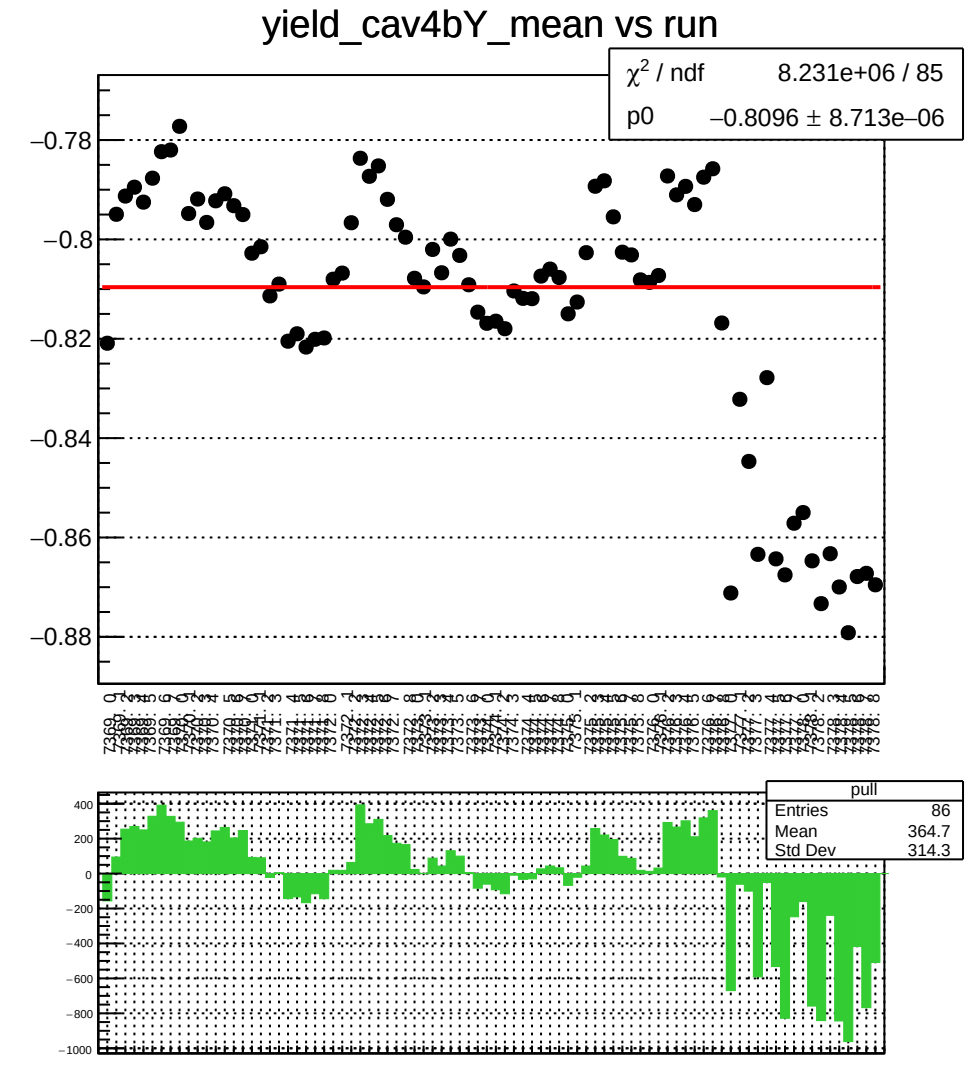

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

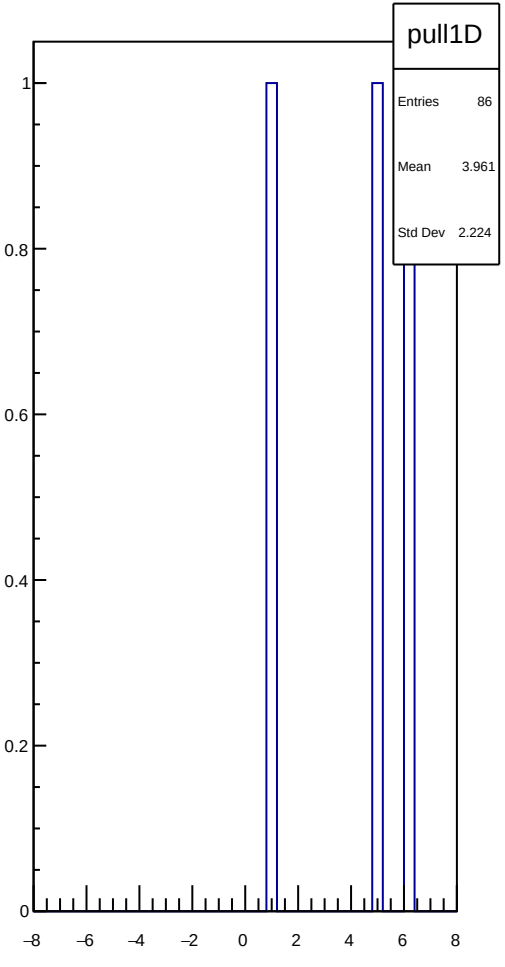

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

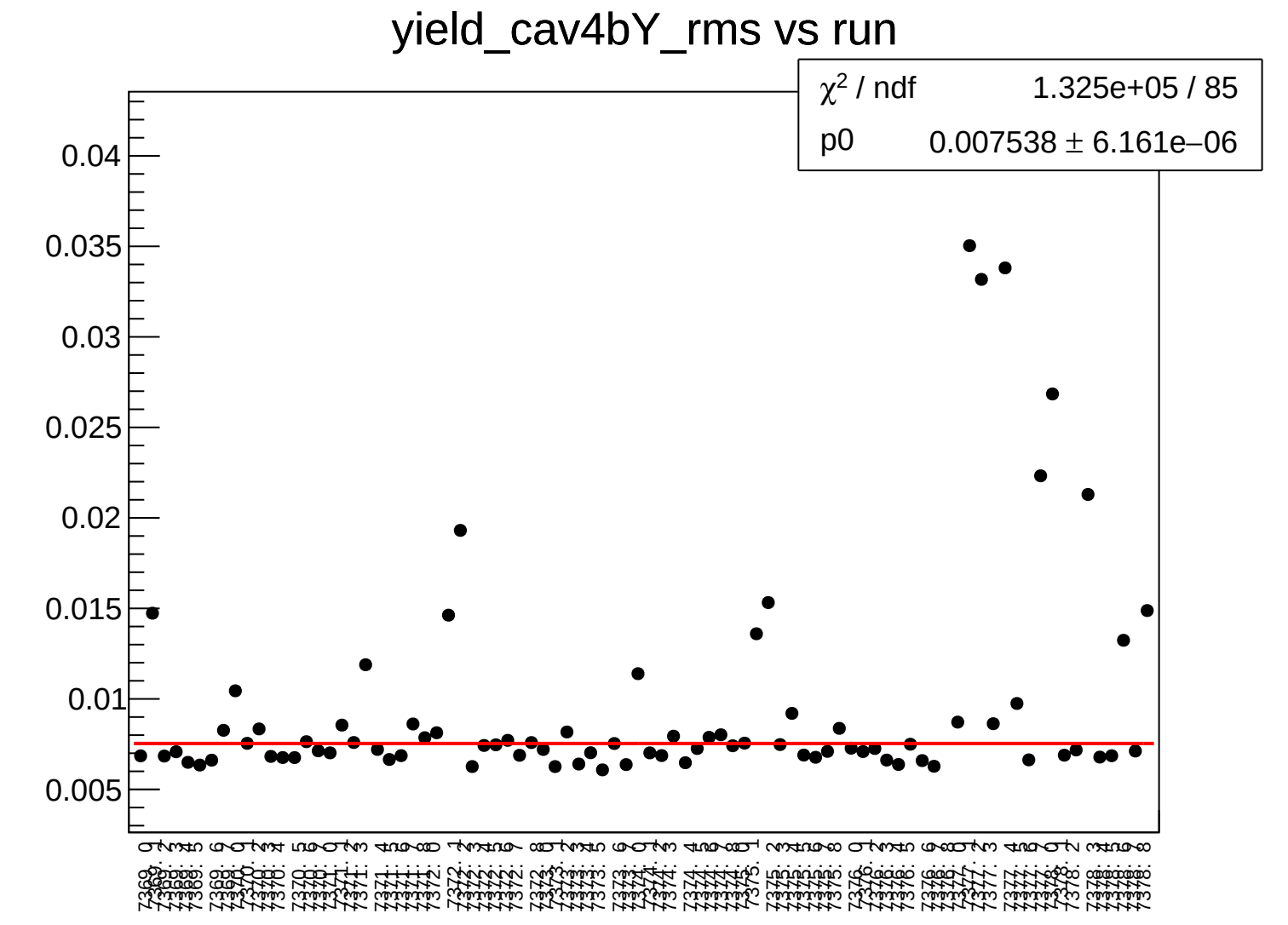

yield_cav4bX_mean vs run
χ² / ndf 2.536e+06 / 85
p0 −0.578 ± 2.971e−05
−0.5
−0.55
−0.6
−0.65
−0.7
pull
Entries 86
Mean 482.3
Std Dev 424.6
200
0
−200
−400
−600
−800

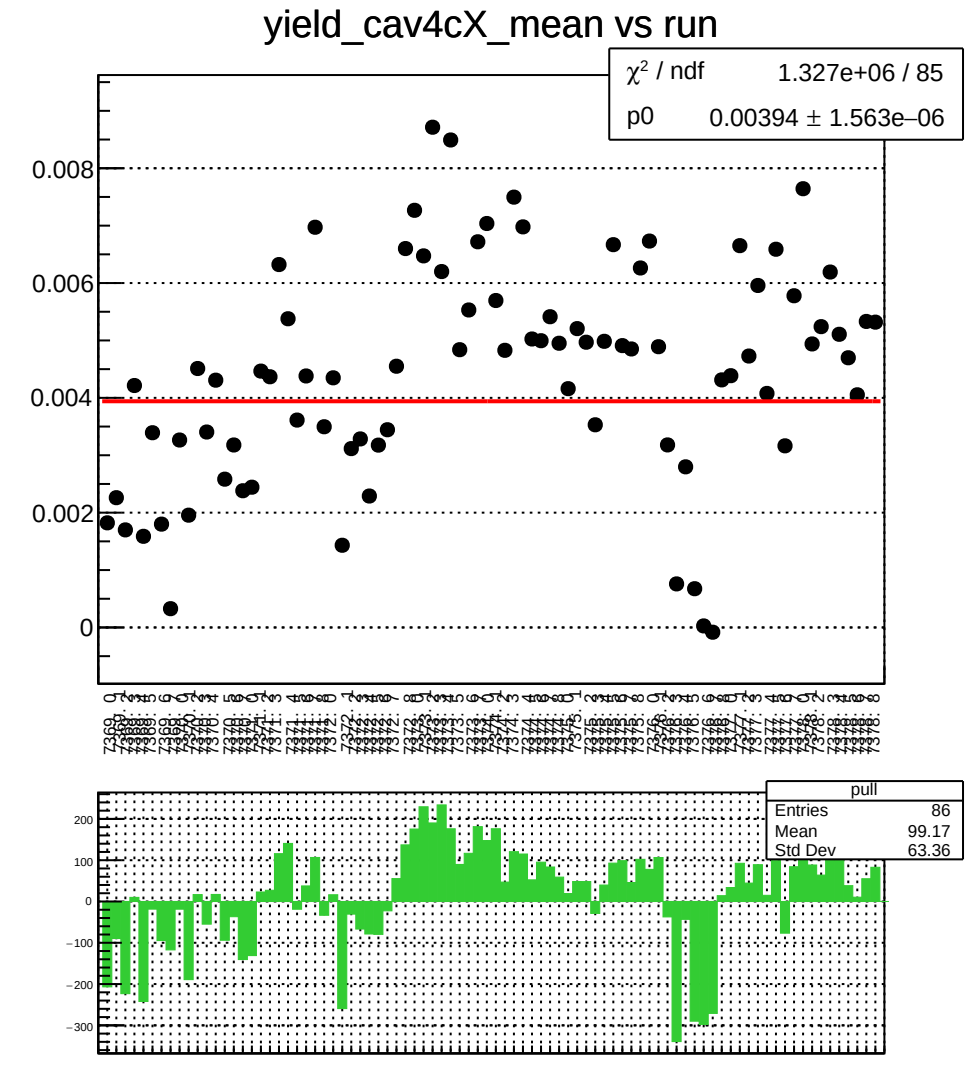

pull1D
Entries 86
Mean 1.806
Std Dev 1.403
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

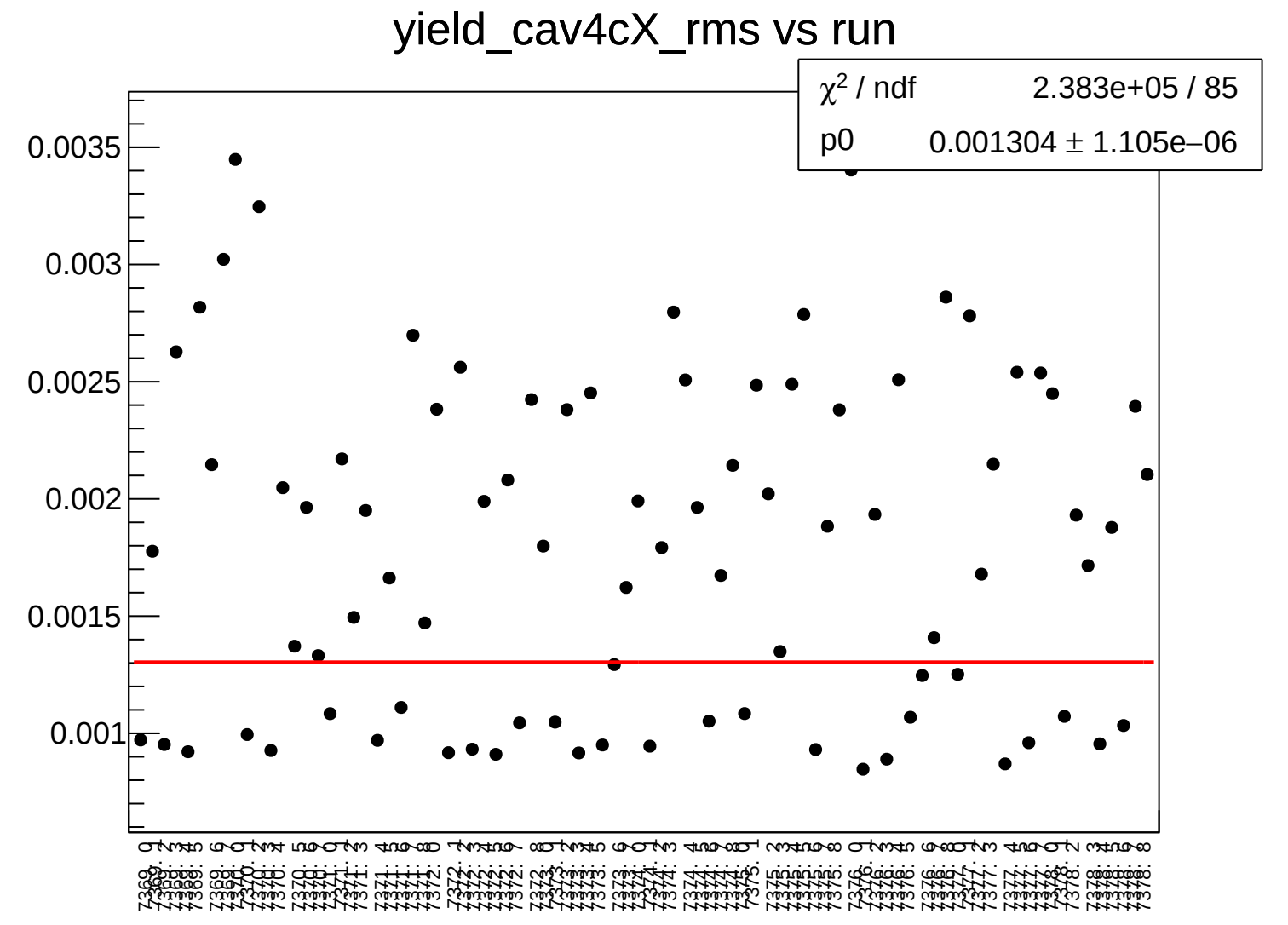

yield_cav4bX_rms vs run
χ² / ndf 2.93e+05 / 85
p0 0.02429 ± 2.101e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

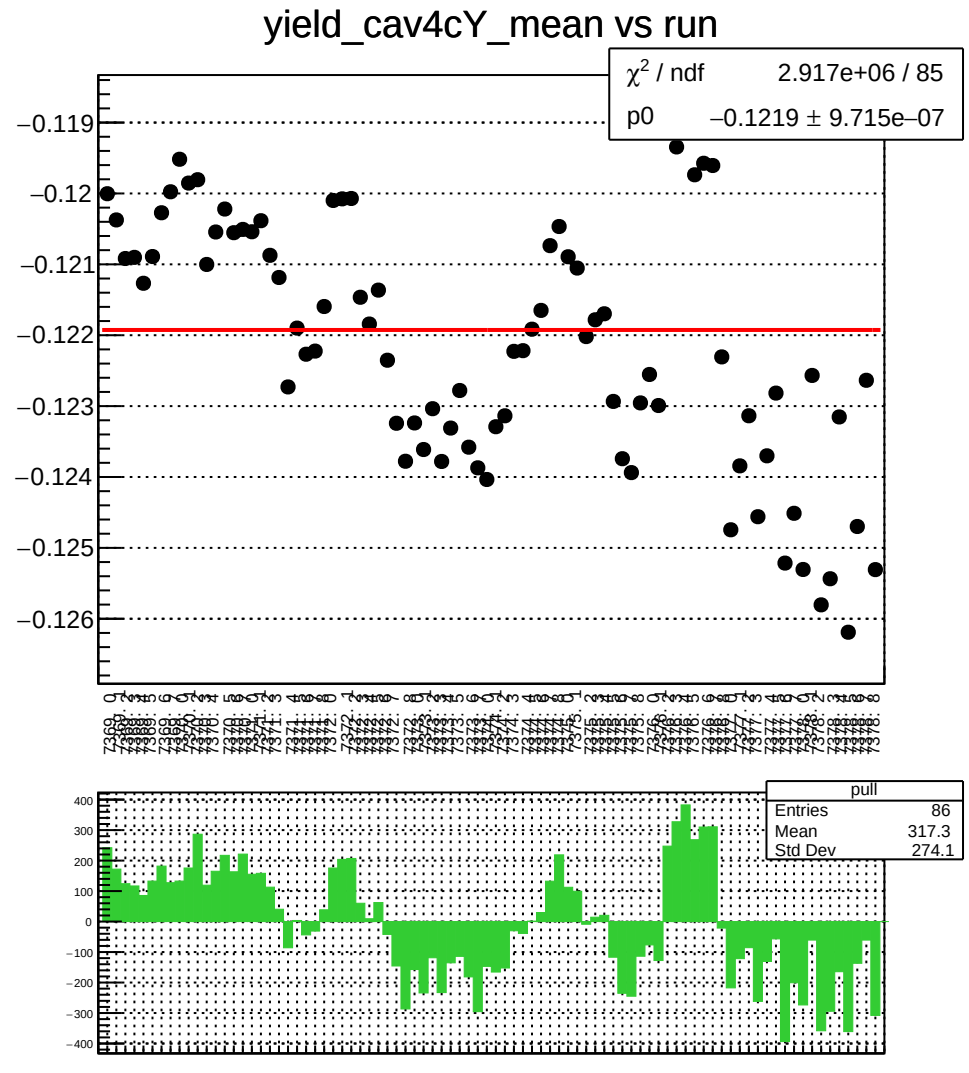

yield_cav4bY_mean vs run
χ² / ndf 8.231e+06 / 85
p0 −0.8096 ± 8.713e−06
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
pull
Entries 86
Mean 364.7
Std Dev 314.3
400
200
0
−200
−400
−600
−800
−1000

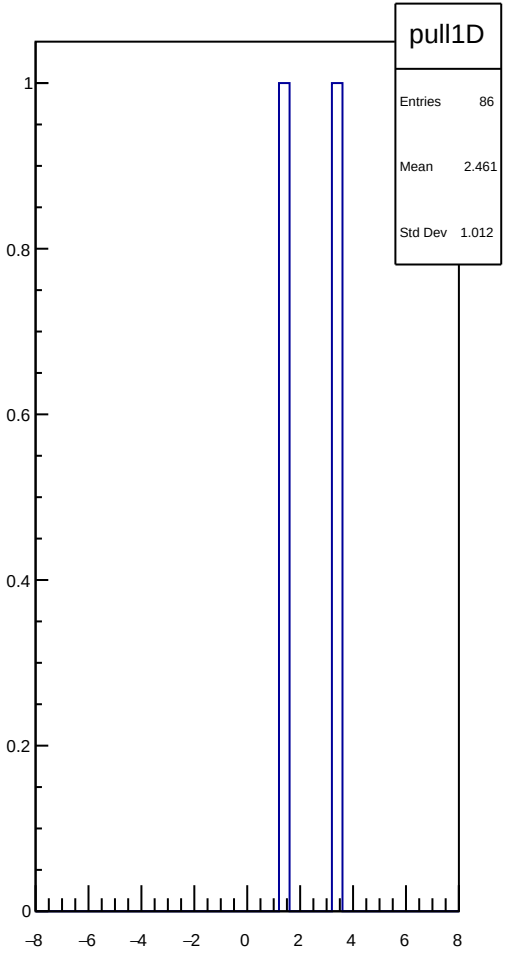

pull1D
Entries 86
Mean 3.961
Std Dev 2.224
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

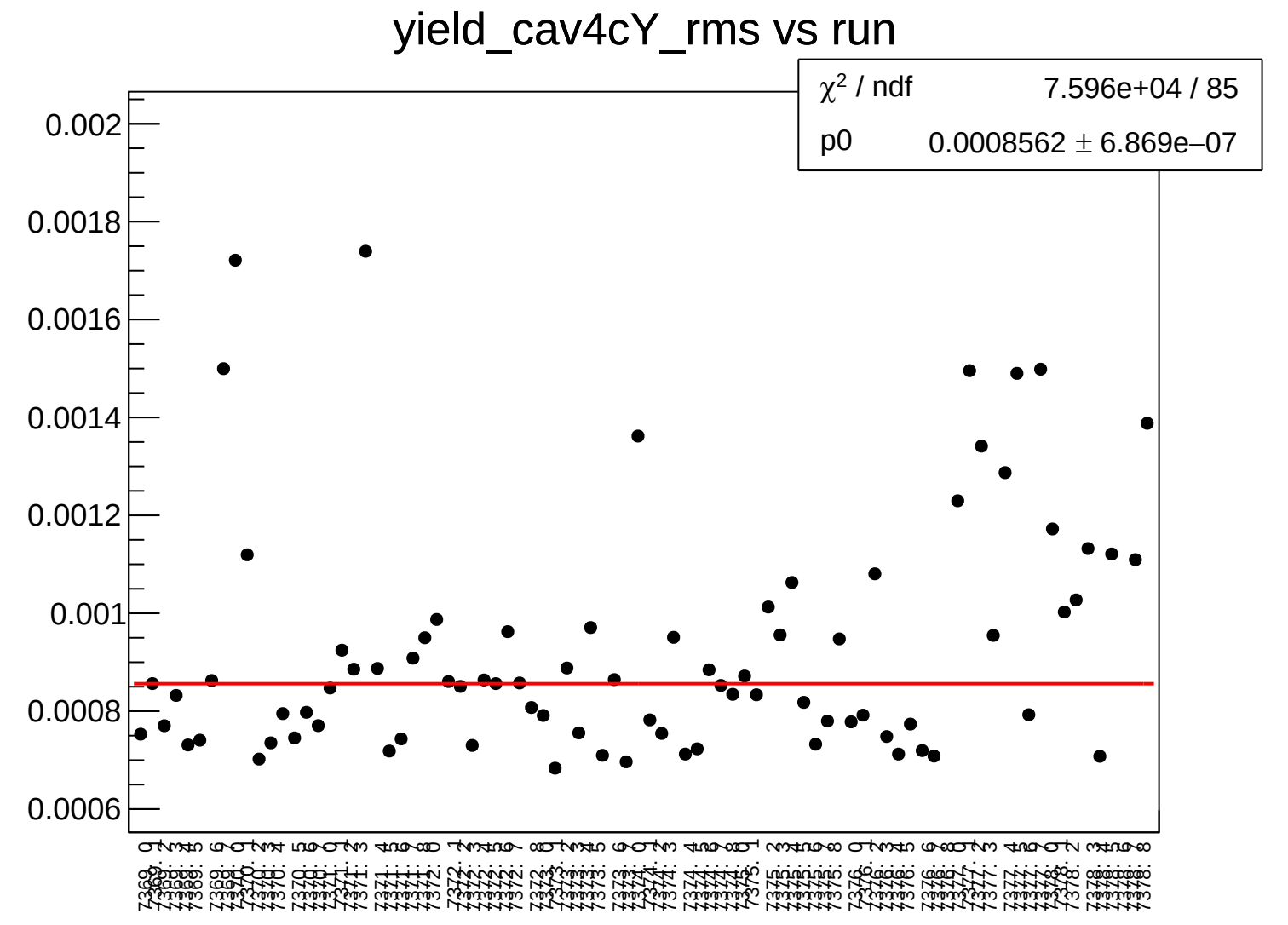

yield_cav4bY_rms vs run
χ² / ndf 1.325e+05 / 85
p0 0.007538 ± 6.161e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

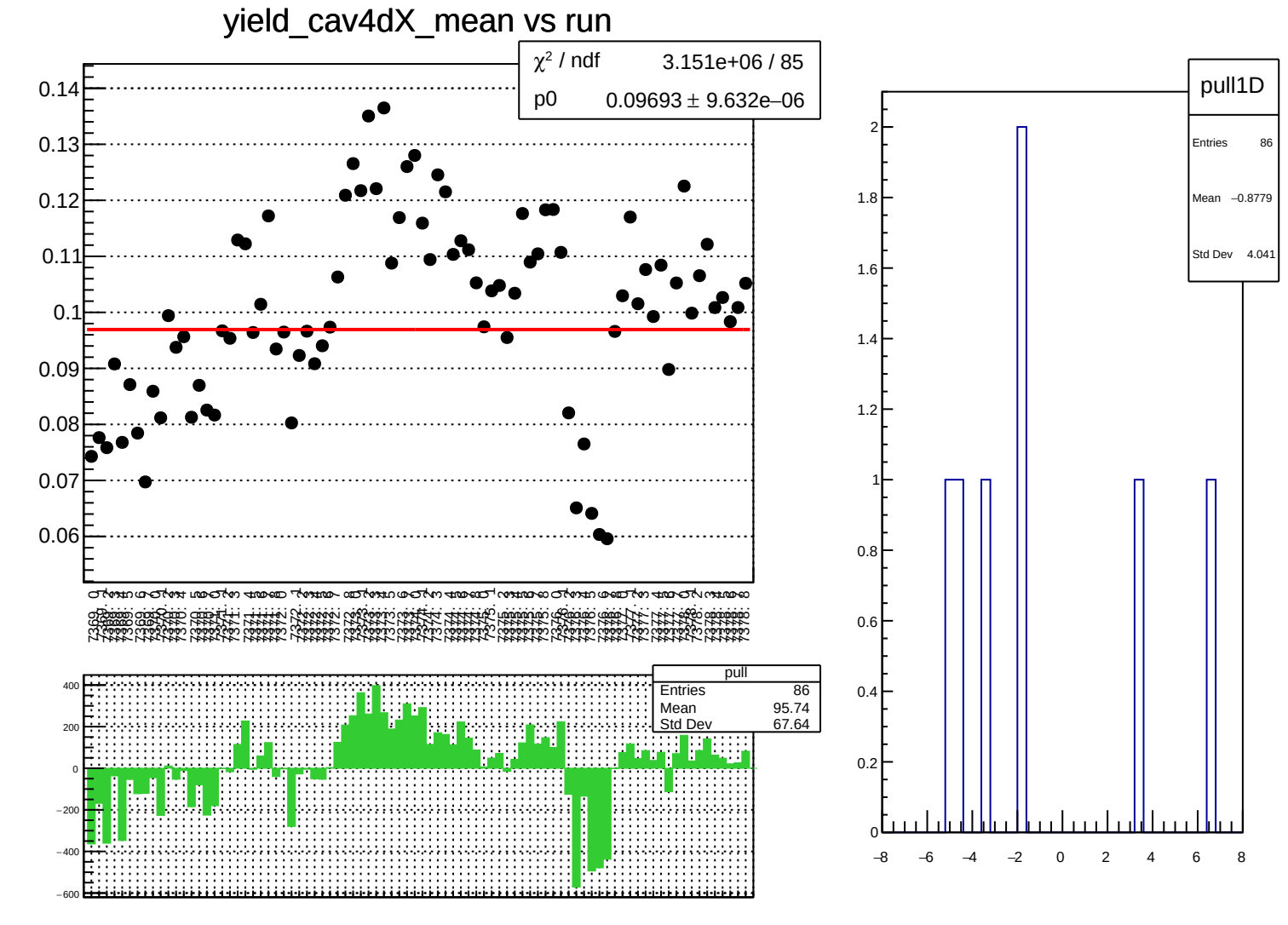

yield_cav4cX_mean vs run
χ² / ndf 1.327e+06 / 85
p0 0.00394 ± 1.563e−06
0.008
0.006
0.004
0.002
0
pull
Entries 86
Mean 99.17
Std Dev 63.36
200
100
0
−100
−200
−300
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

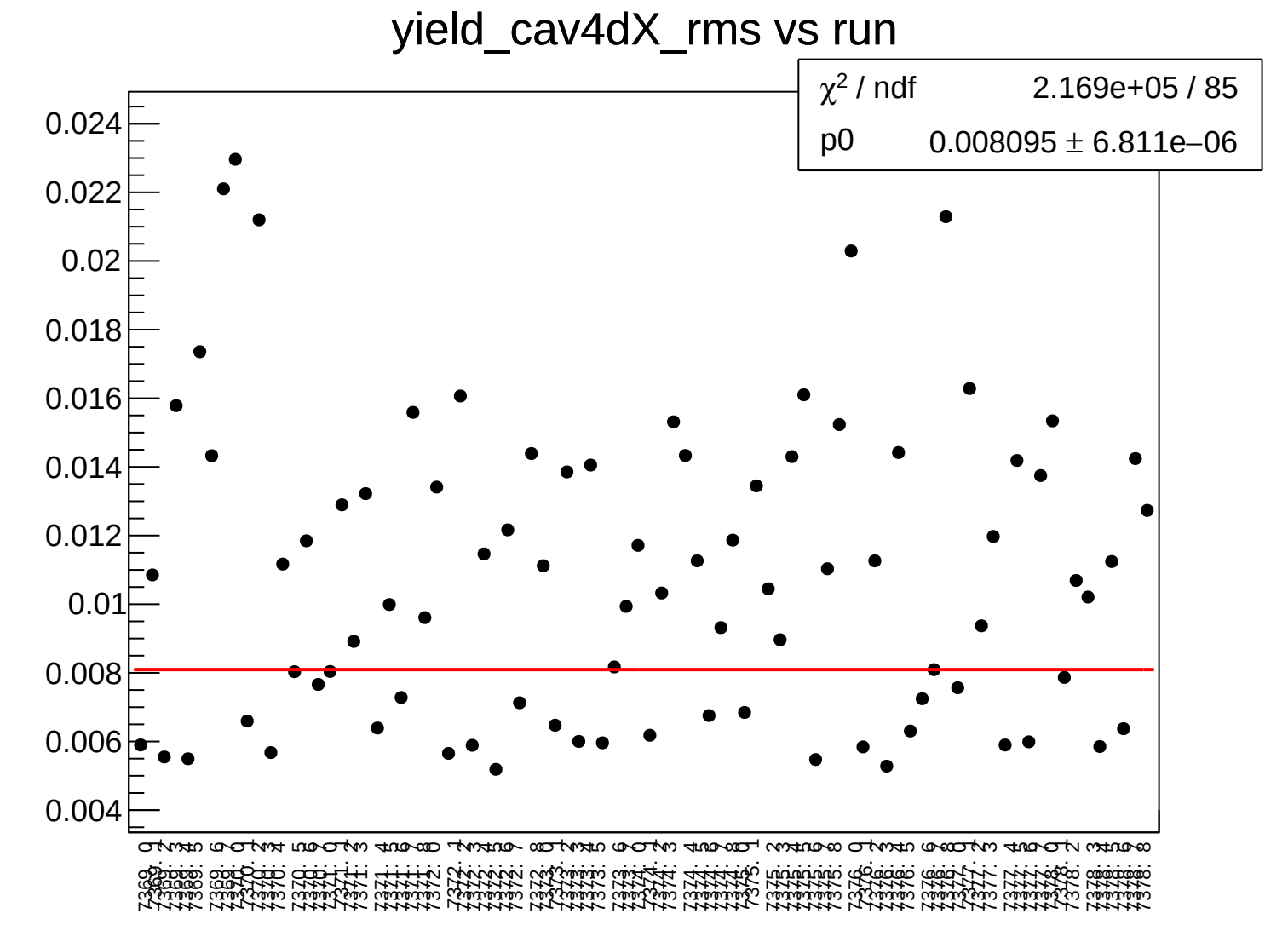

yield_cav4cX_rms vs run
χ² / ndf 2.383e+05 / 85
p0 0.001304 ± 1.105e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

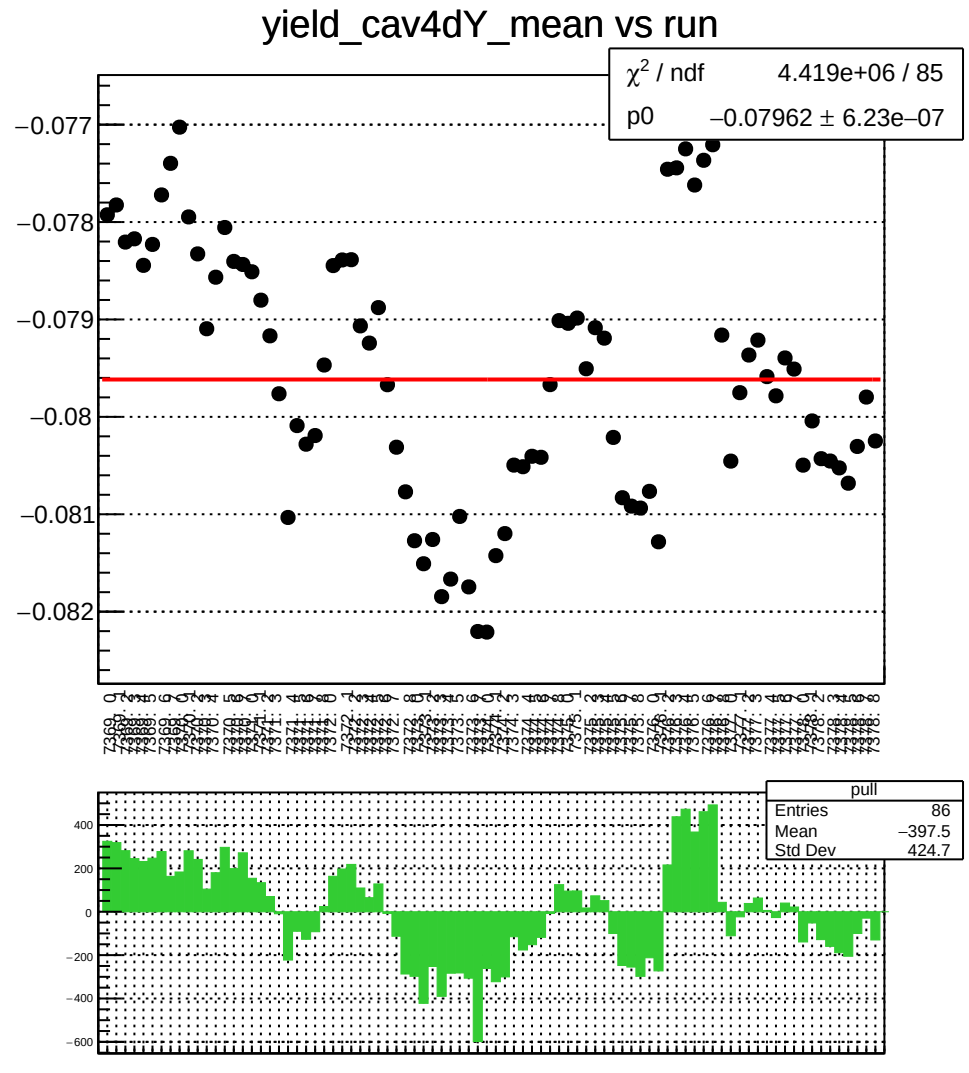

yield_cav4cY_mean vs run
χ² / ndf 2.917e+06 / 85
p0 −0.1219 ± 9.715e−07
−0.119
−0.12
−0.121
−0.122
−0.123
−0.124
−0.125
−0.126
pull
Entries 86
Mean 317.3
Std Dev 274.1
400
300
200
100
0
−100
−200
−300
−400

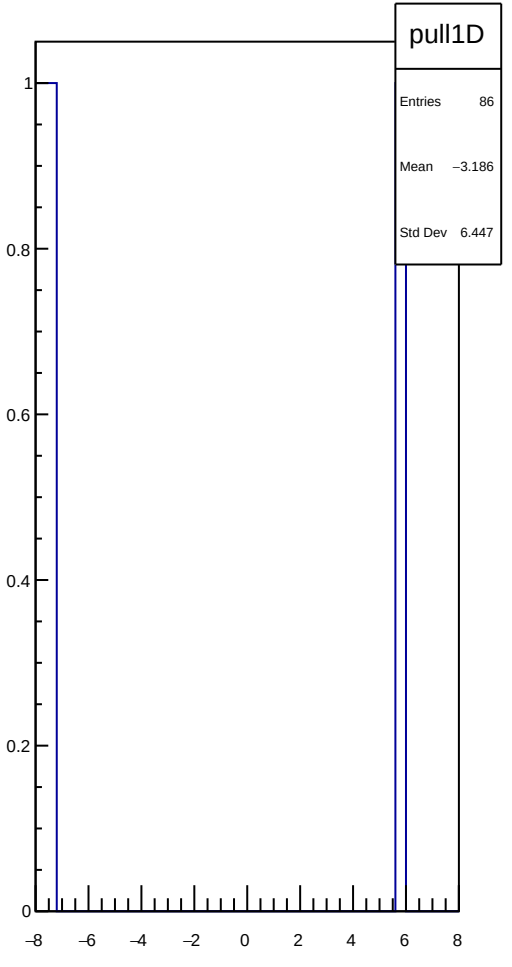

pull1D
Entries 86
Mean 2.461
Std Dev 1.012
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

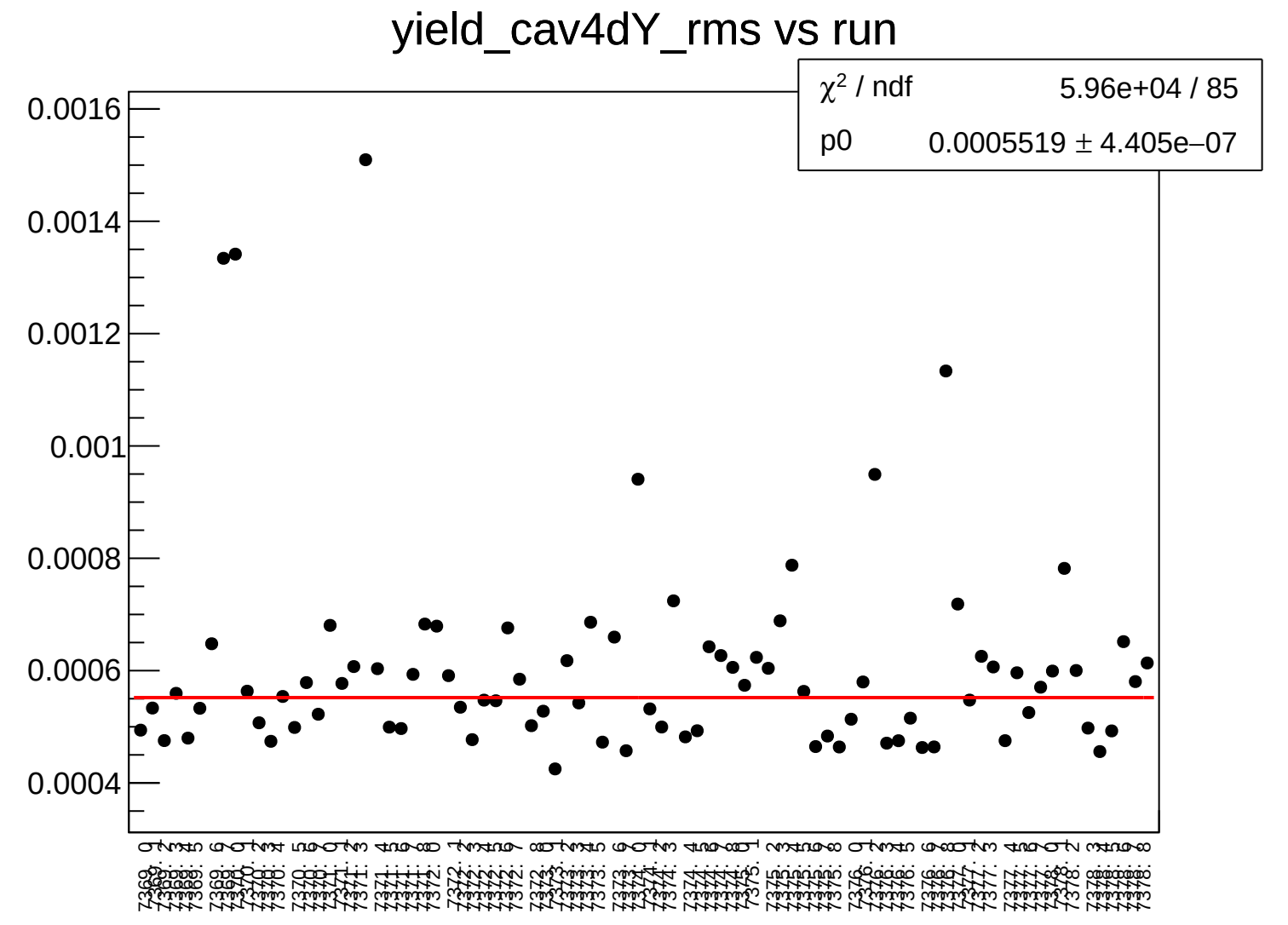

yield_cav4cY_rms vs run
χ² / ndf 7.596e+04 / 85
p0 0.0008562 ± 6.869e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

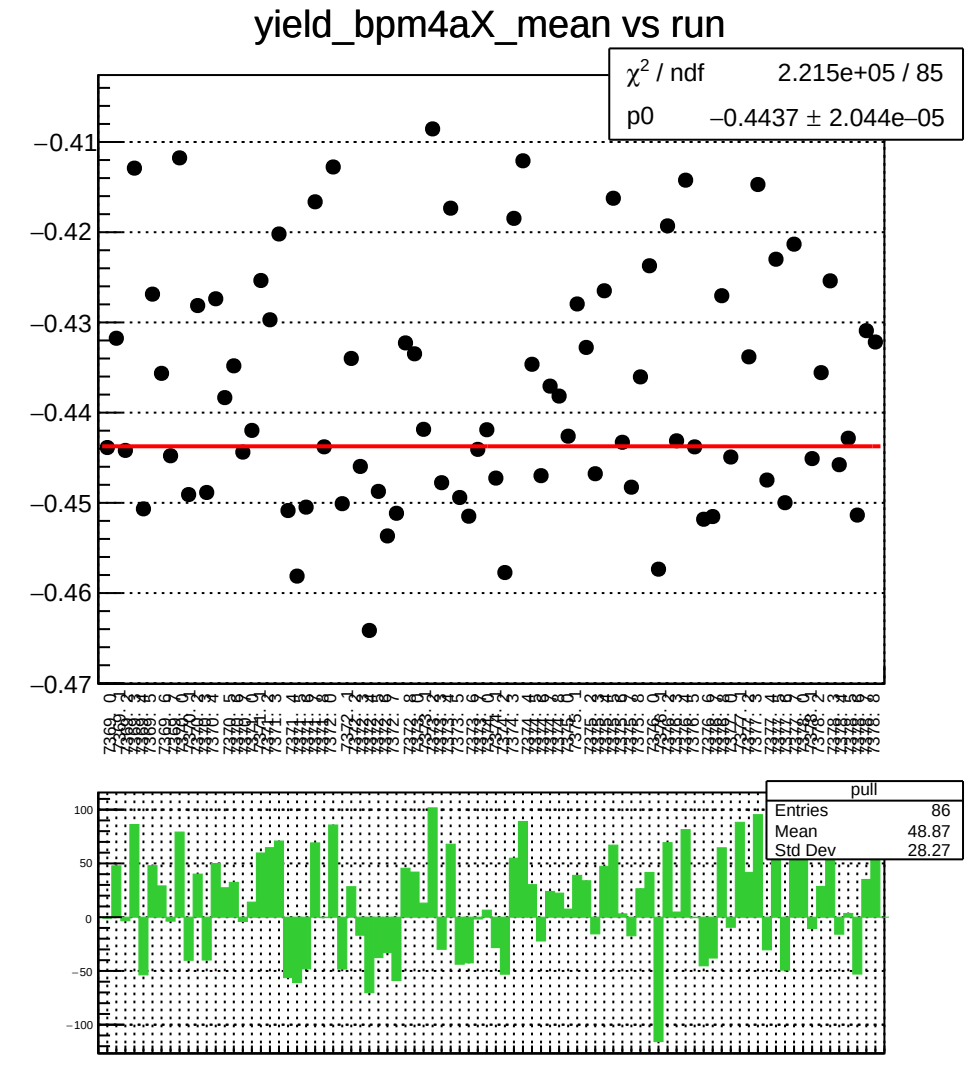

yield_cav4dX_mean vs run
χ² / ndf 3.151e+06 / 85
p0 0.09693 ± 9.632e−06
pull
Entries 86
Mean 95.74
Std Dev 67.64
pull1D
Entries 86
Mean −0.8779
Std Dev 4.041

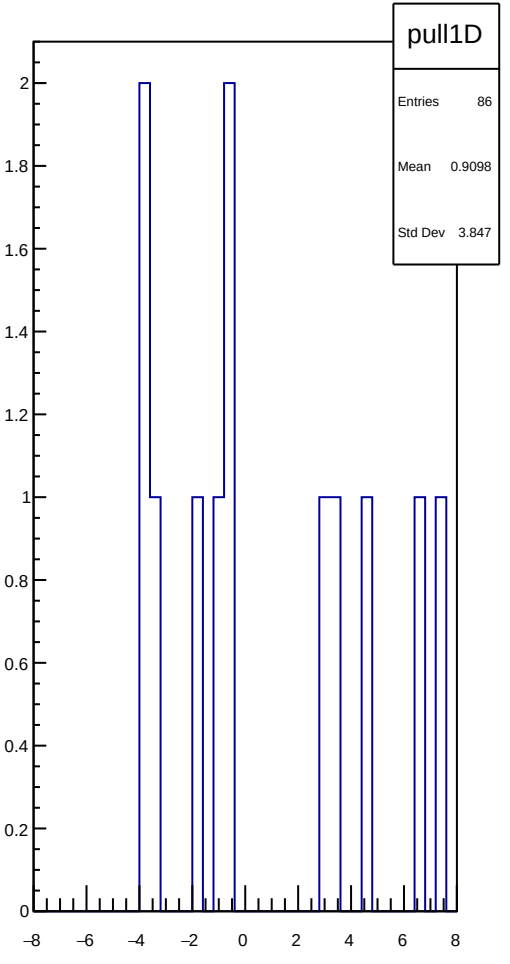

yield_cav4dX_rms vs run
χ^2 / ndf 2.169e+05 / 85
p0 0.008095 ± 6.811e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

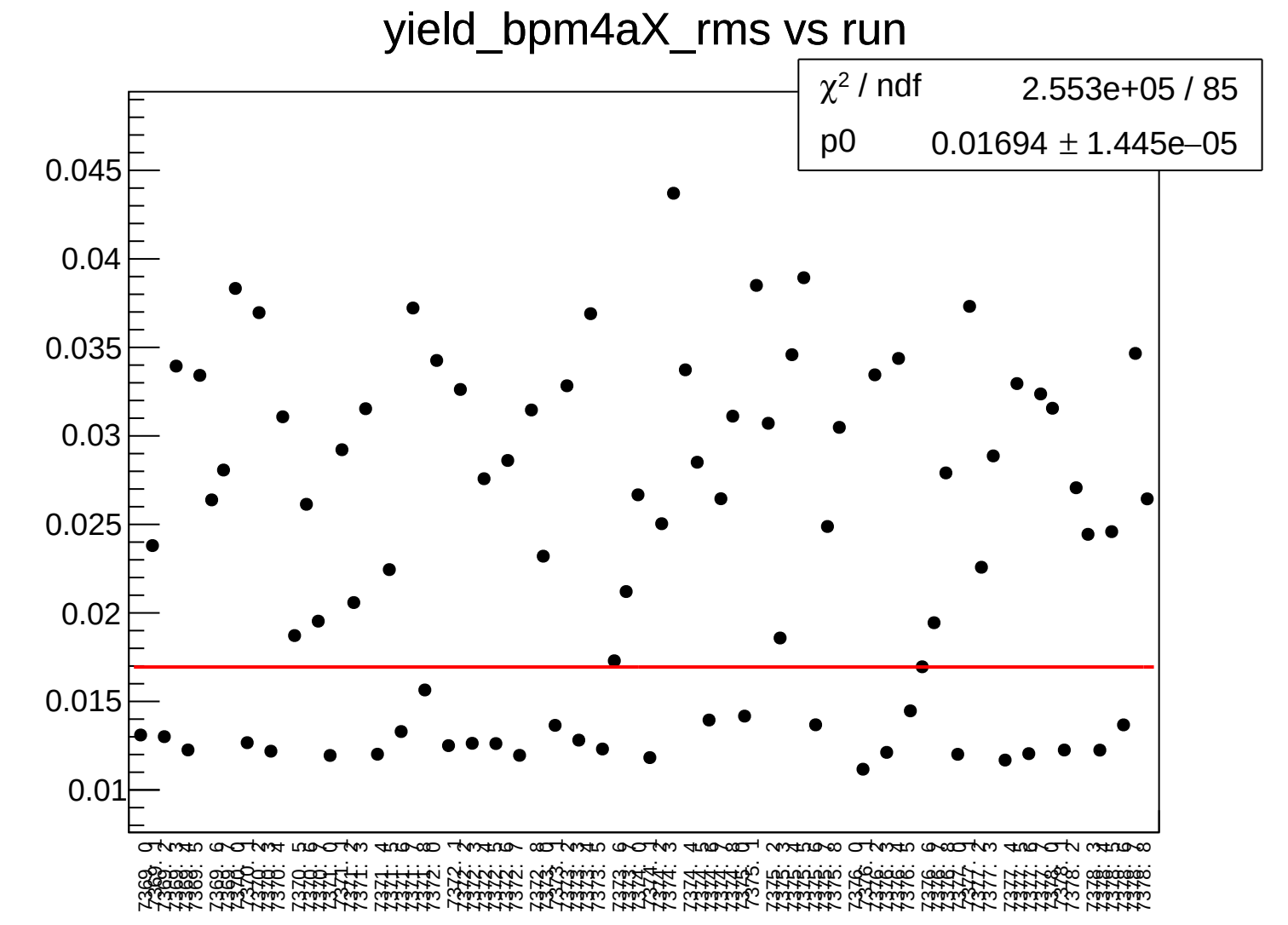

yield_cav4dY_mean vs run
χ² / ndf 4.419e+06 / 85
p0 −0.07962 ± 6.23e−07
−0.077
−0.078
−0.079
−0.08
−0.081
−0.082
pull
Entries 86
Mean −397.5
Std Dev 424.7
400
200
0
−200
−400
−600

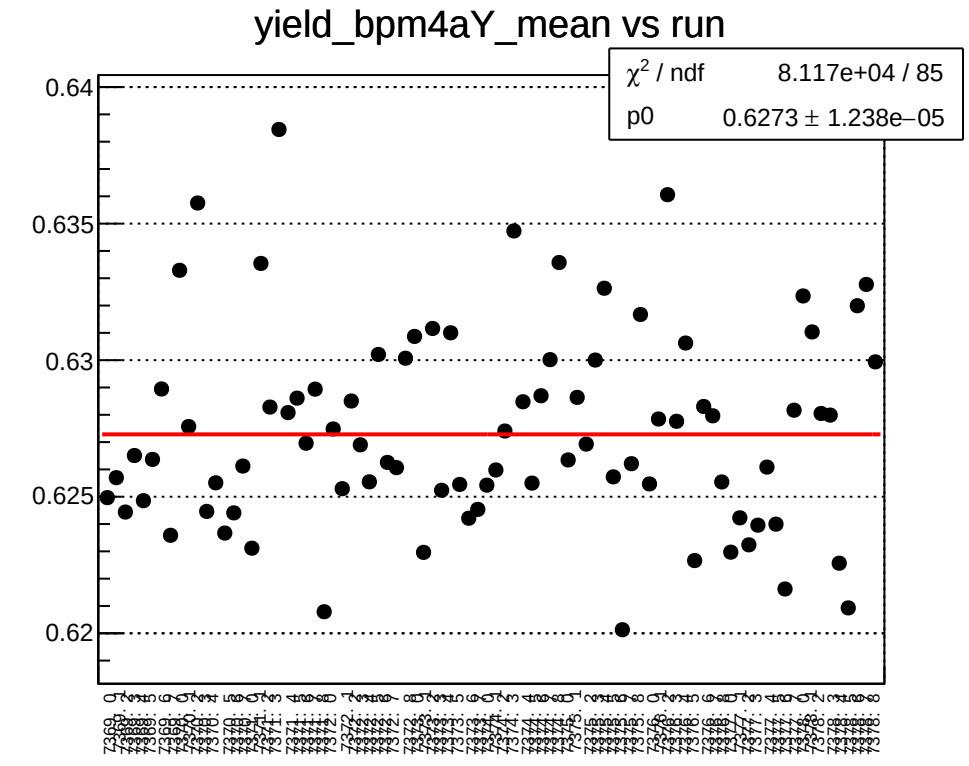

pull1D
Entries 86
Mean −3.186
Std Dev 6.447
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

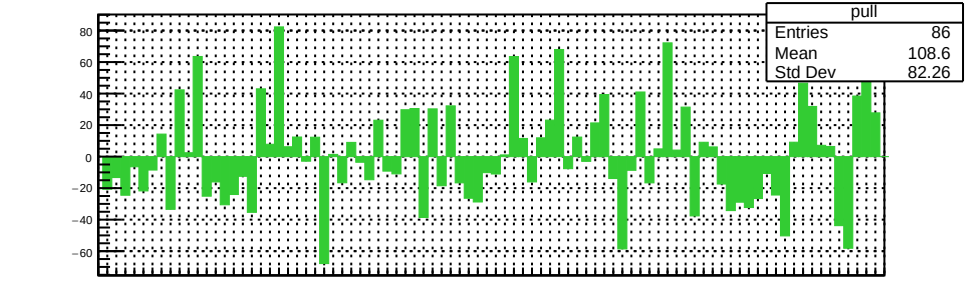

yield_cav4dY_rms vs run
χ² / ndf 5.96e+04 / 85
p0 0.0005519 ± 4.405e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

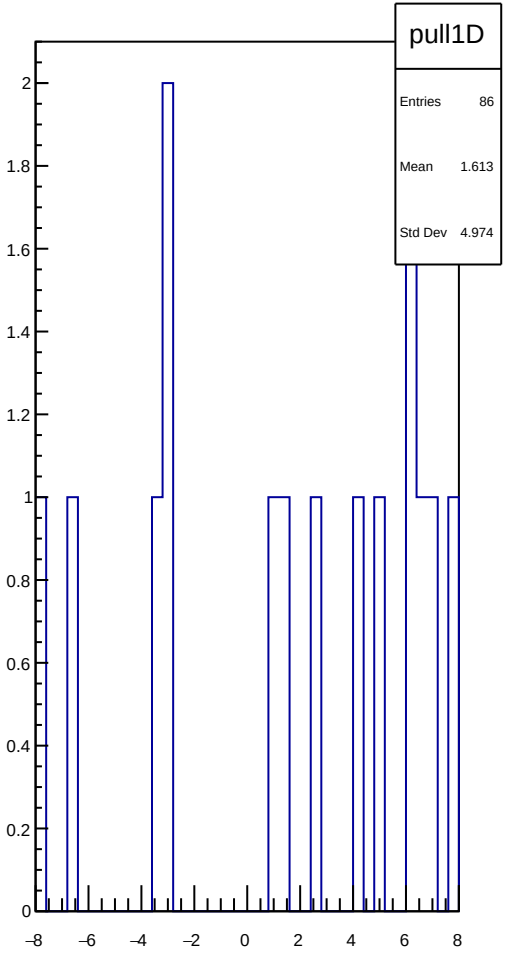

yield_bpm4aX_mean vs run
χ² / ndf 2.215e+05 / 85
p0 −0.4437 ± 2.044e−05
−0.41
−0.42
−0.43
−0.44
−0.45
−0.46
−0.47
pull
Entries 86
Mean 48.87
Std Dev 28.27
100
50
0
−50
−100

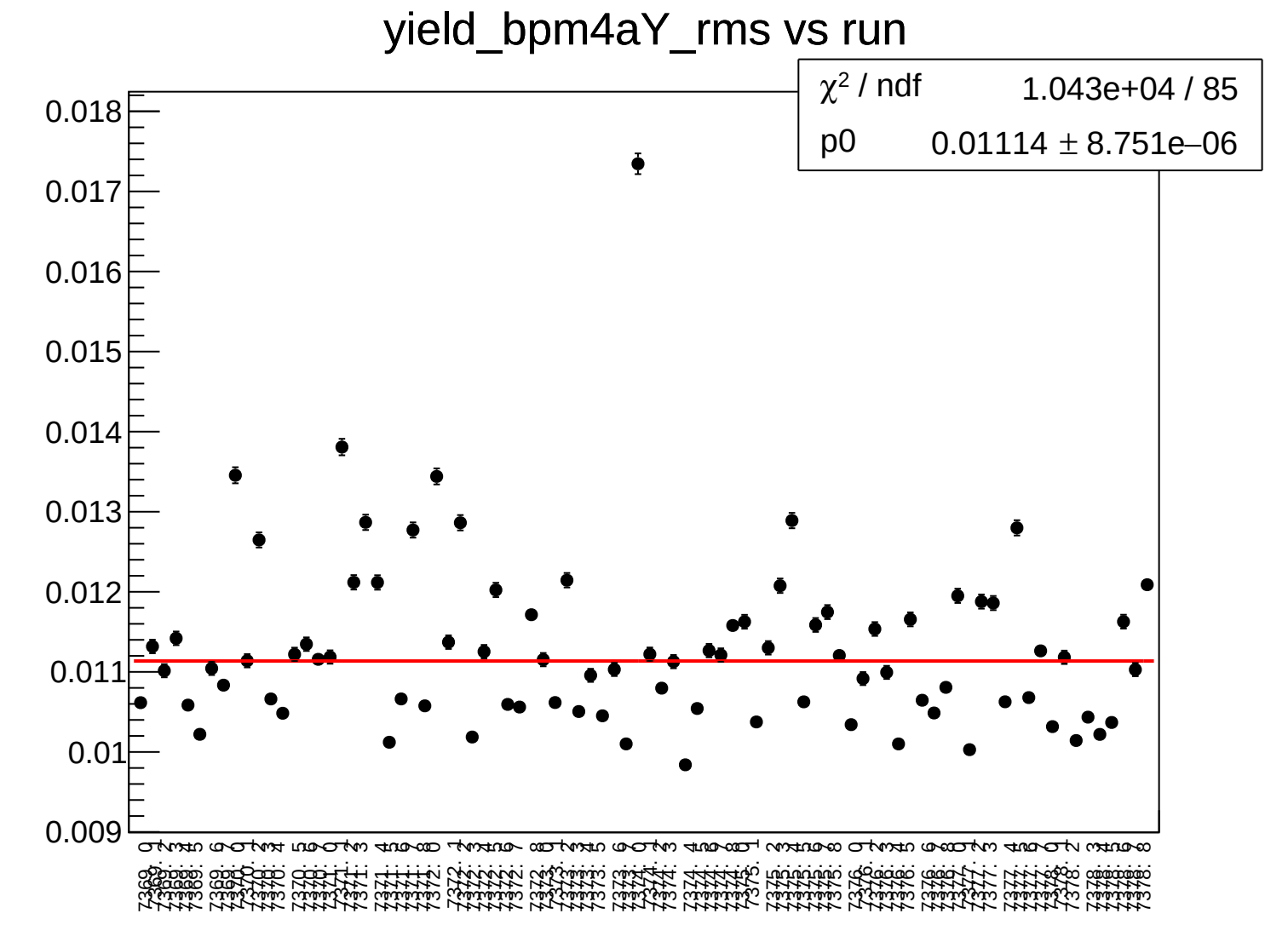

pull1D
Entries 86
Mean 0.9098
Std Dev 3.847
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

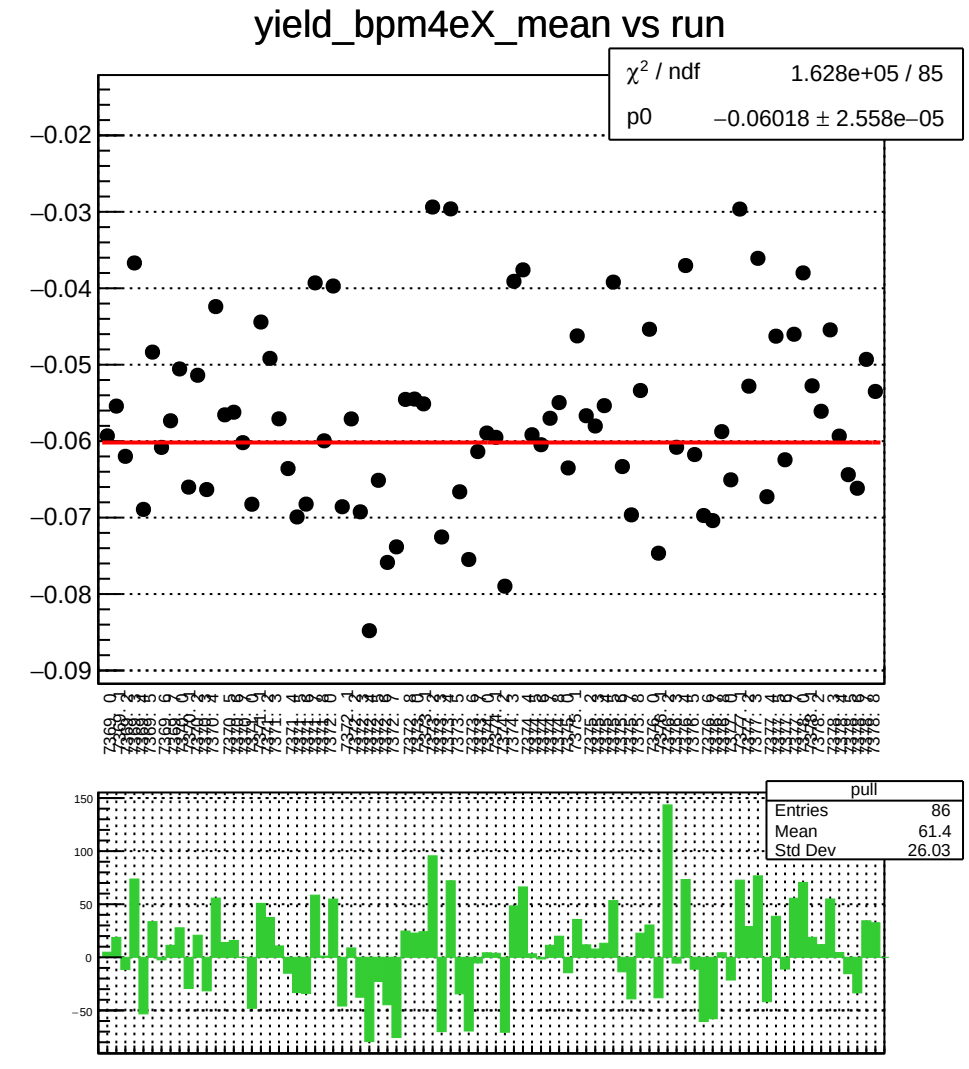

yield_bpm4aX_rms vs run
χ² / ndf 2.553e+05 / 85
p0 0.01694 ± 1.445e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

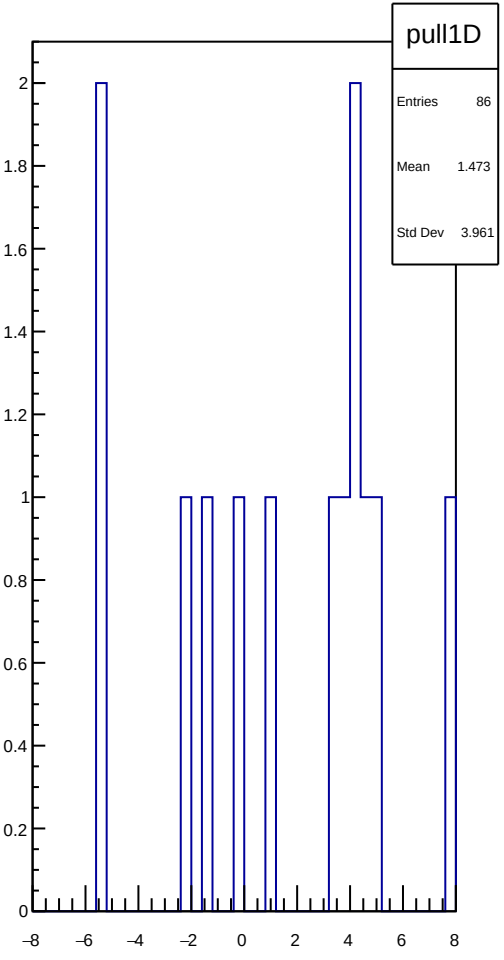

yield_bpm4aY_mean vs run
χ² / ndf 8.117e+04 / 85
p0 0.6273 ± 1.238e−05
0.64
0.635
0.63
0.625
0.62

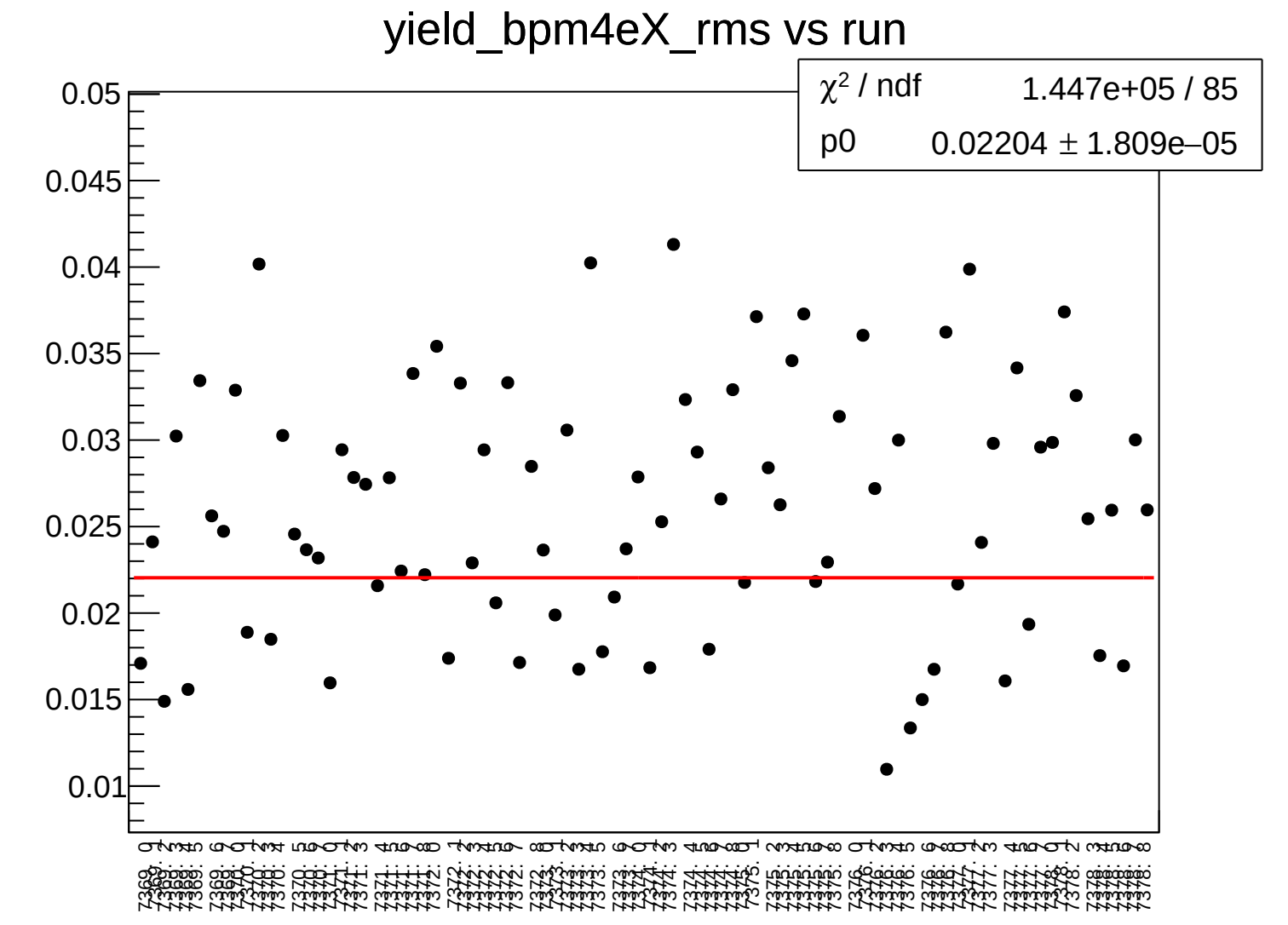

pull
Entries 86
Mean 108.6
Std Dev 82.26
80
60
40
20
0
−20
−40
−60

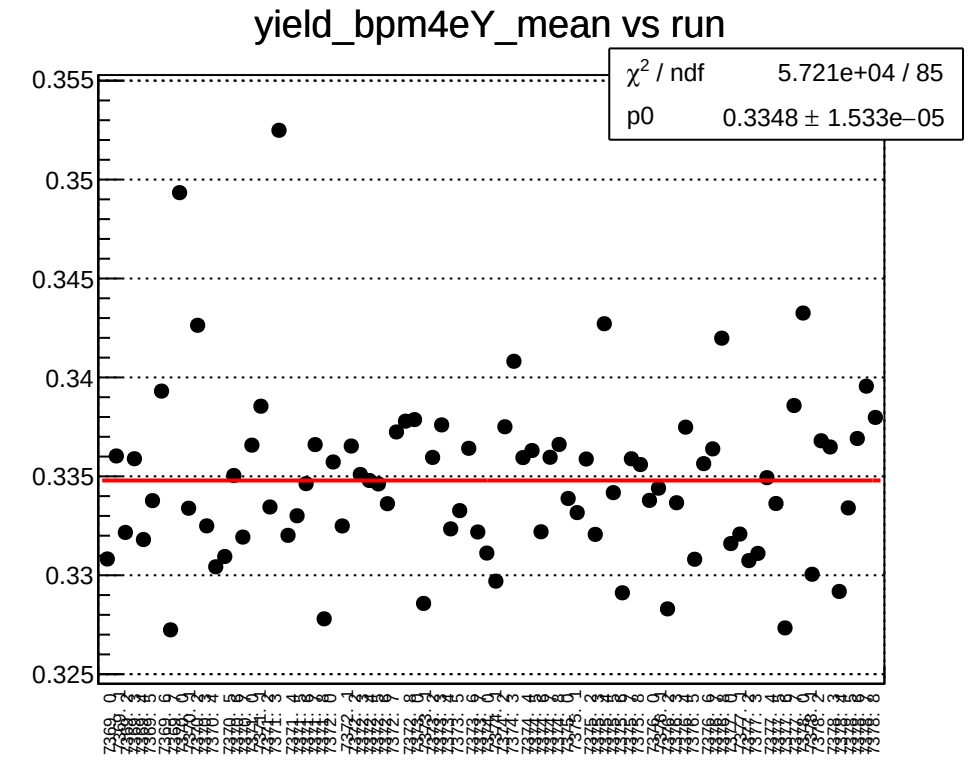

pull1D
Entries 86
Mean 1.613
Std Dev 4.974
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

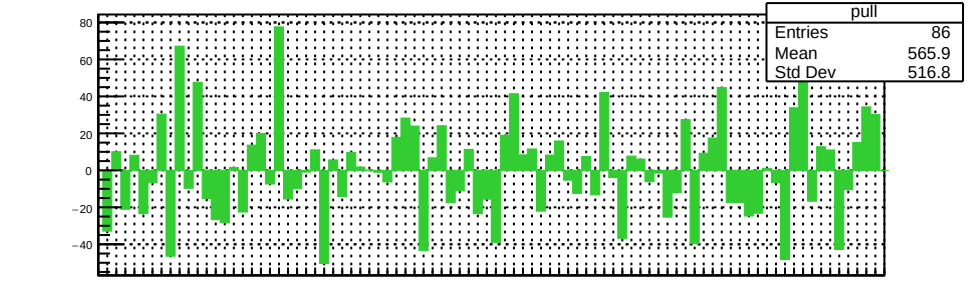

yield_bpm4aY_rms vs run
χ² / ndf 1.043e+04 / 85
p0 0.01114 ± 8.751e–06
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

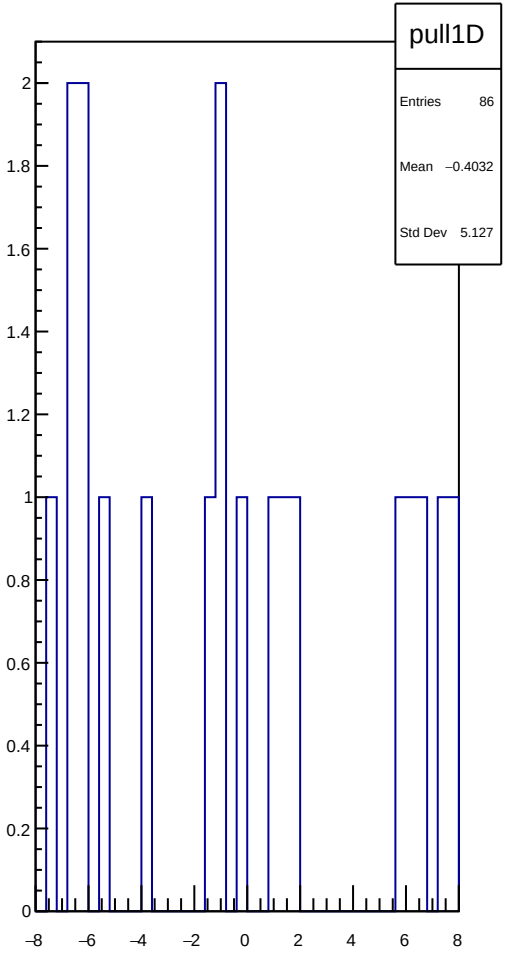

yield_bpm4eX_mean vs run
χ² / ndf 1.628e+05 / 85
p0 −0.06018 ± 2.558e−05
pull
Entries 86
Mean 61.4
Std Dev 26.03

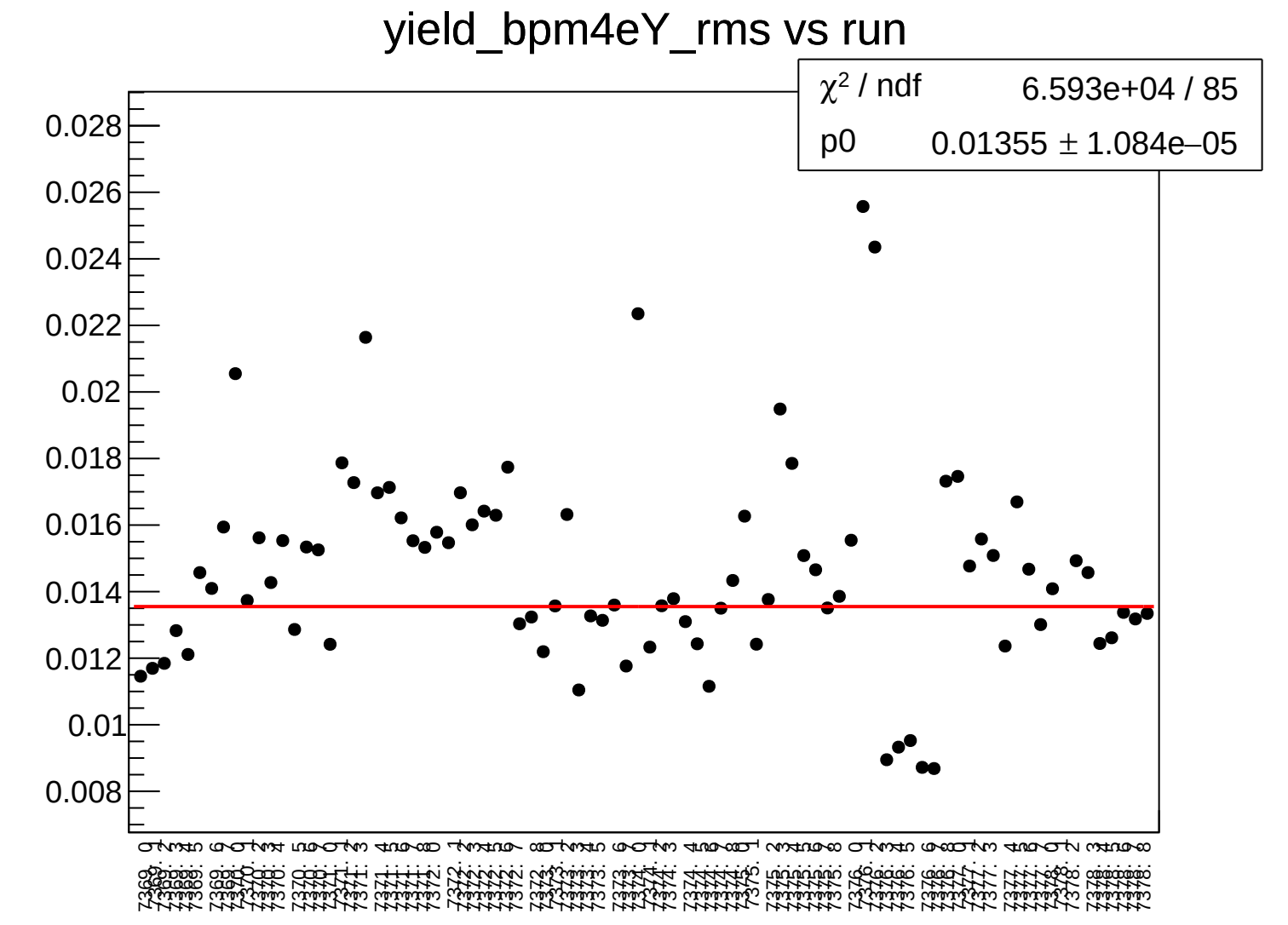

pull1D
Entries 86
Mean 1.473
Std Dev 3.961

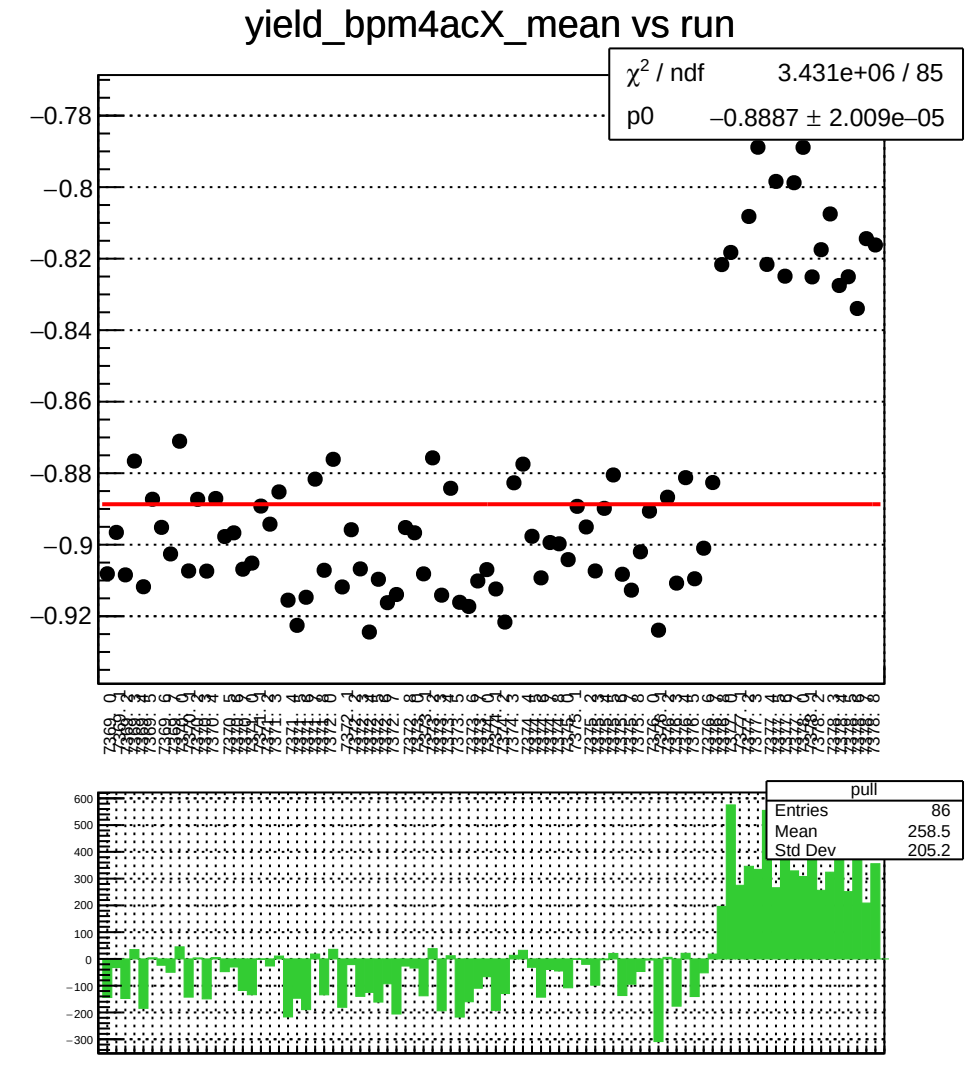

yield_bpm4eX_rms vs run
χ² / ndf 1.447e+05 / 85
p0 0.02204 ± 1.809e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

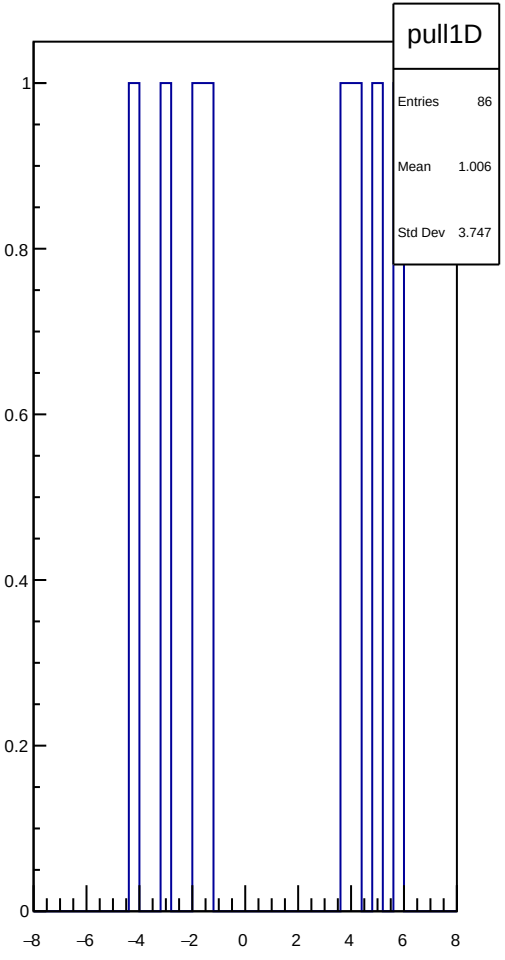

yield_bpm4eY_mean vs run
χ² / ndf 5.721e+04 / 85
p0 0.3348 ± 1.533e−05
0.355
0.35
0.345
0.34
0.335
0.33
0.325

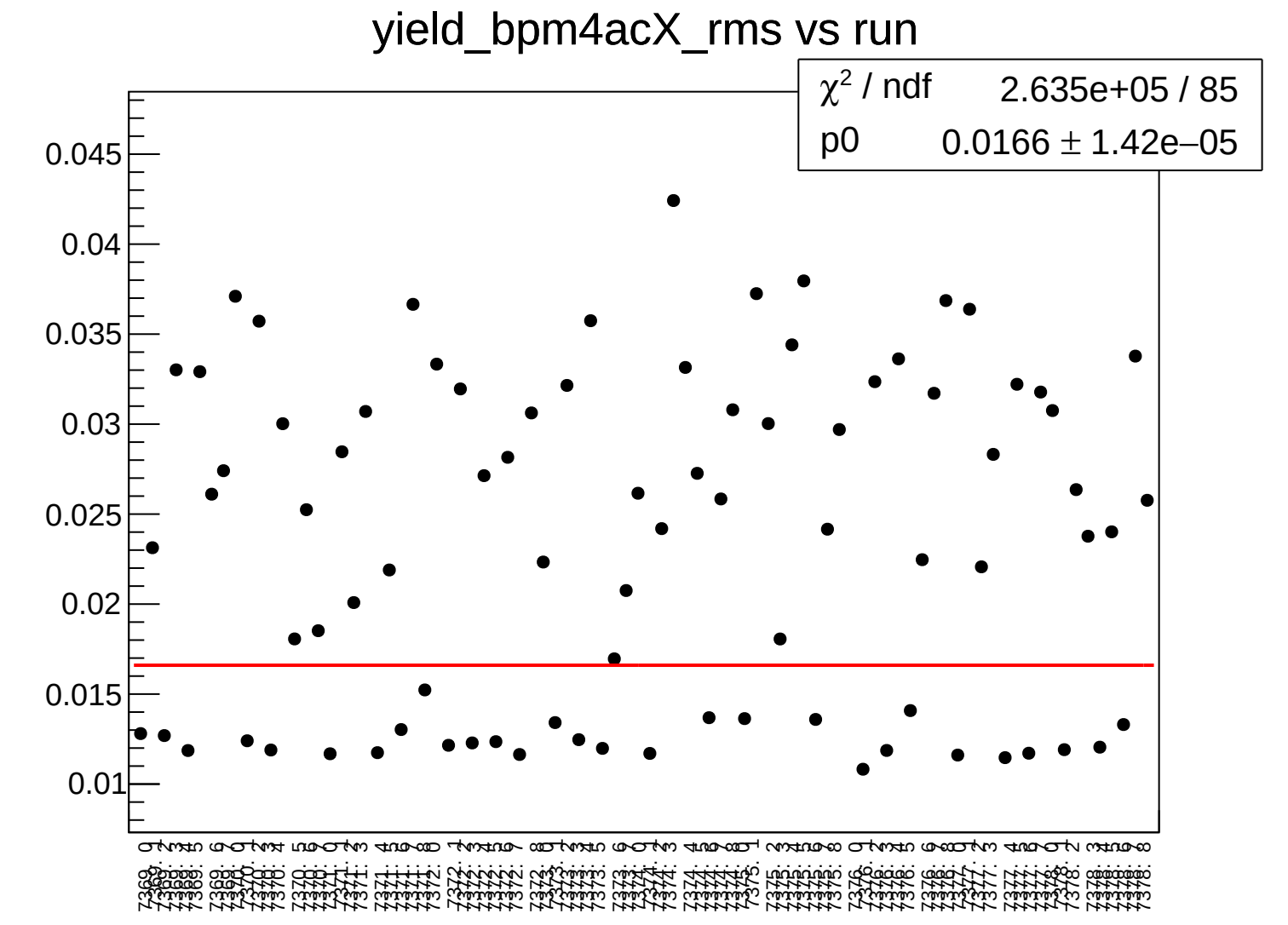

pull
Entries 86
Mean 565.9
Std Dev 516.8
80
60
40
20
0
−20
−40

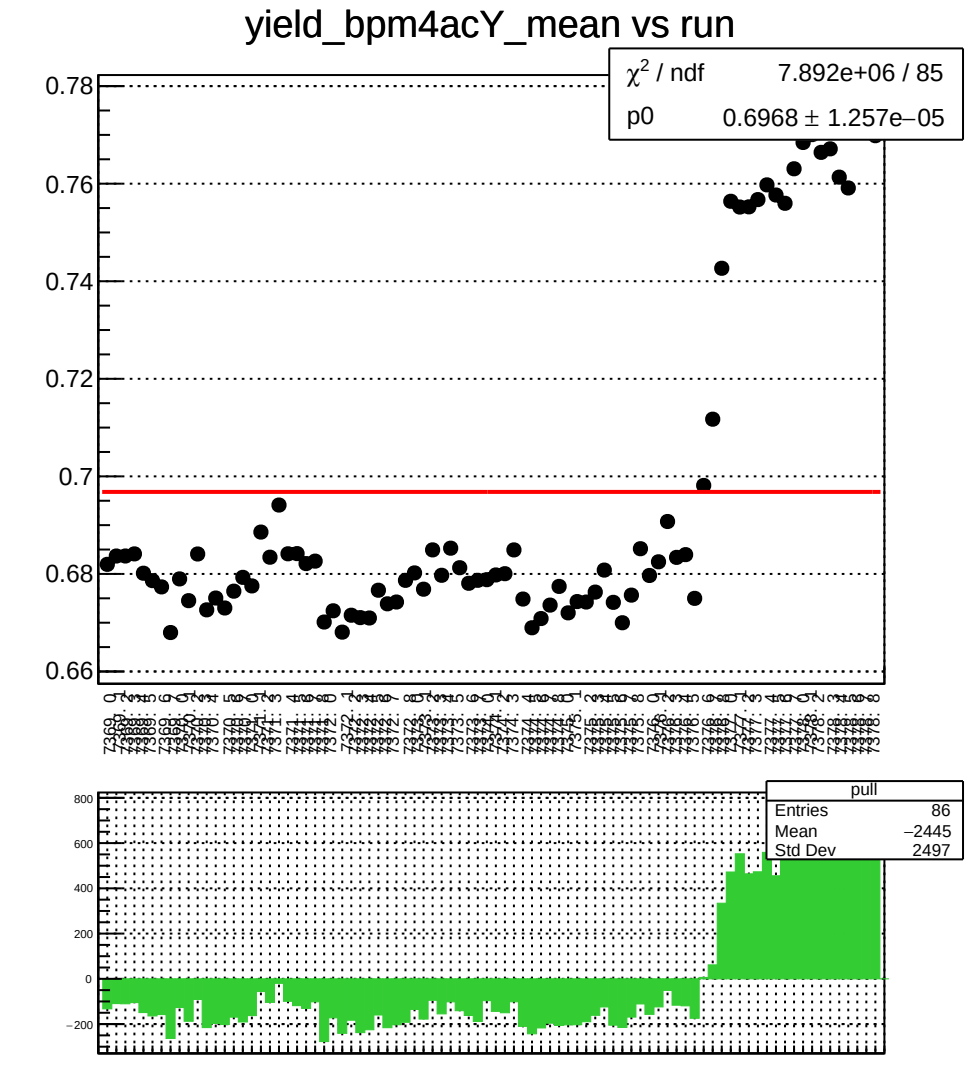

pull1D
Entries 86
Mean −0.4032
Std Dev 5.127
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

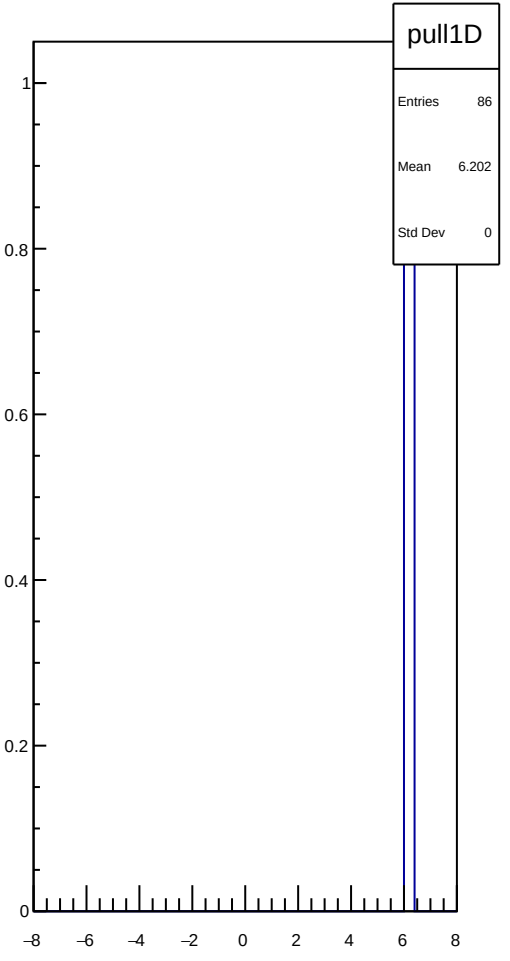

yield_bpm4eY_rms vs run
χ² / ndf 6.593e+04 / 85
p0 0.01355 ± 1.084e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

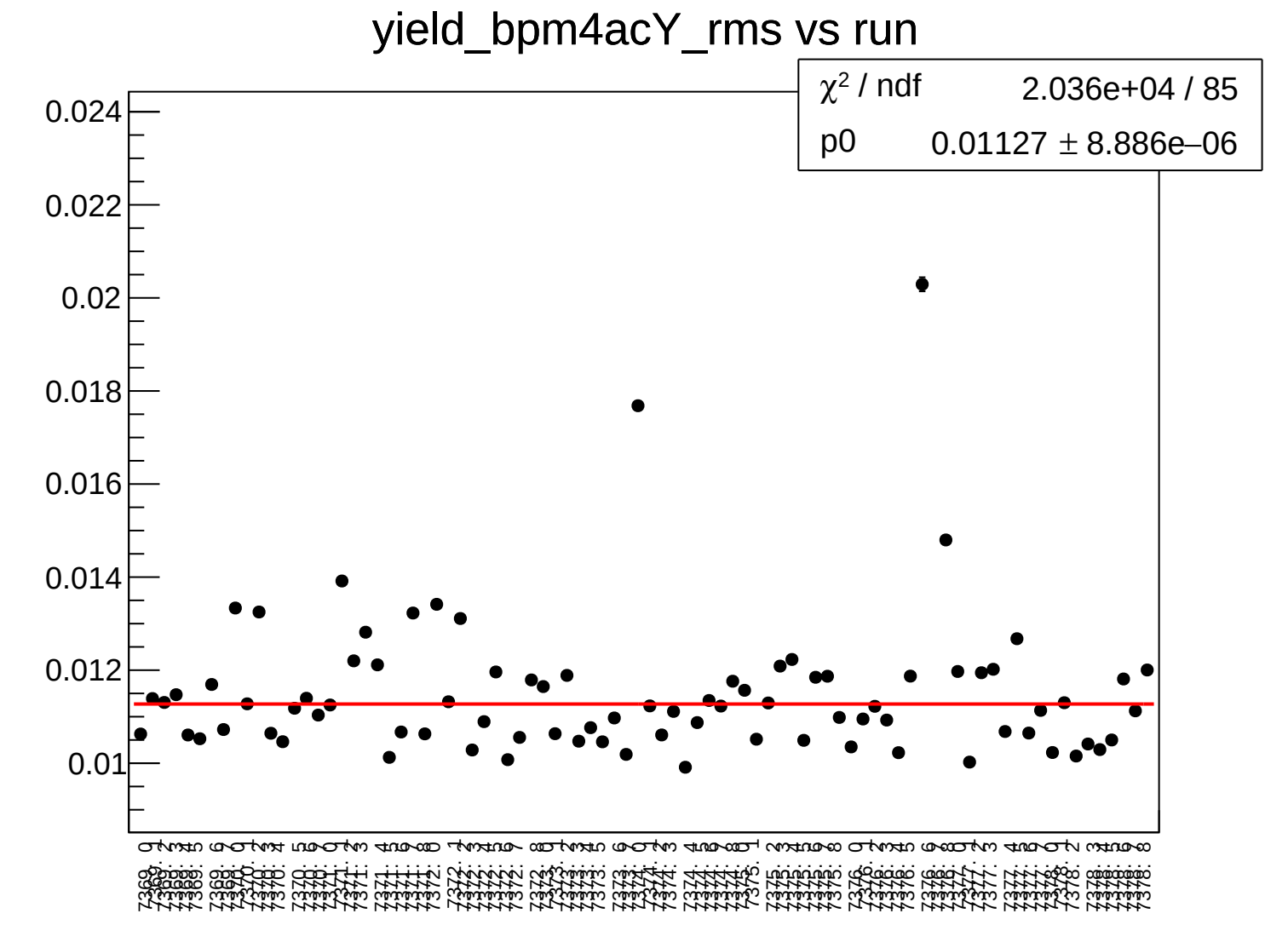

yield_bpm4acX_mean vs run
χ² / ndf 3.431e+06 / 85
p0 −0.8887 ± 2.009e−05
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
pull
Entries 86
Mean 258.5
Std Dev 205.2
600
500
400
300
200
100
0
−100
−200
−300

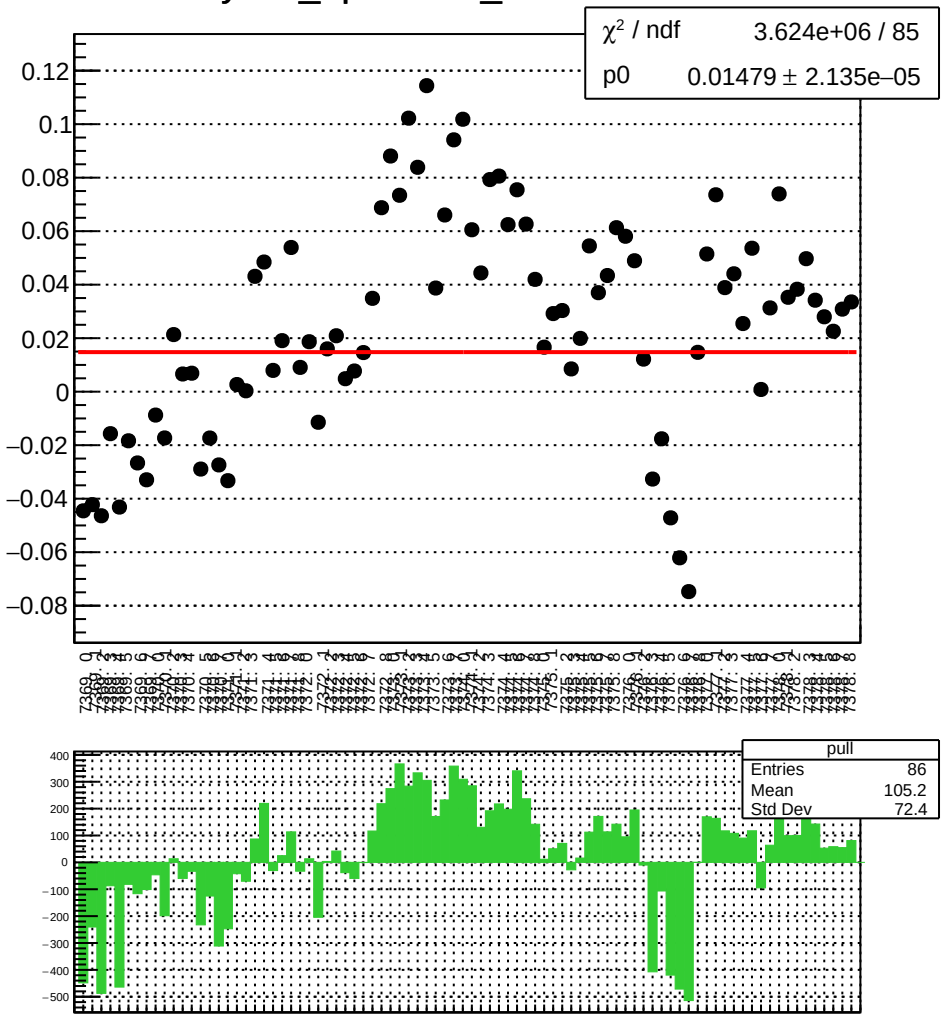

pull1D
Entries 86
Mean 1.006
Std Dev 3.747
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

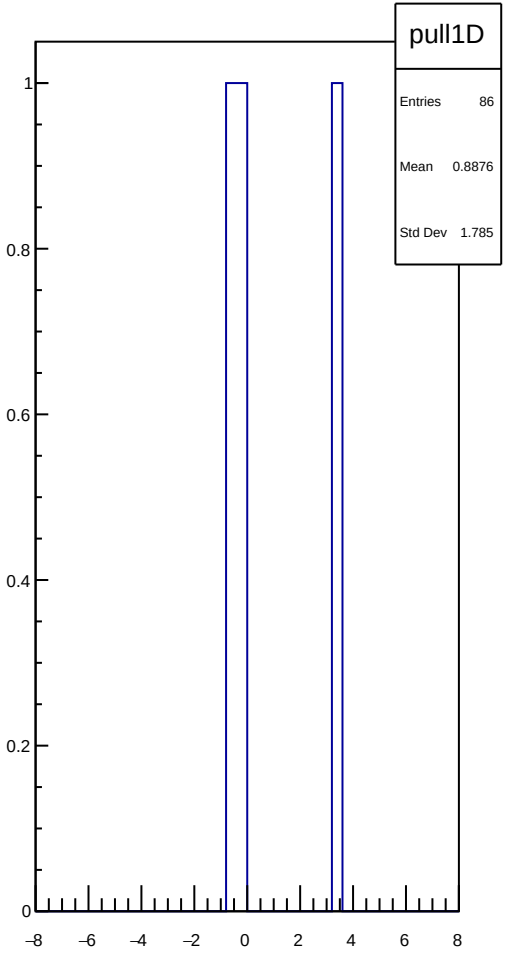

yield_bpm4acX_rms vs run
χ^2 / ndf 2.635e+05 / 85
p0 0.0166 ± 1.42e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

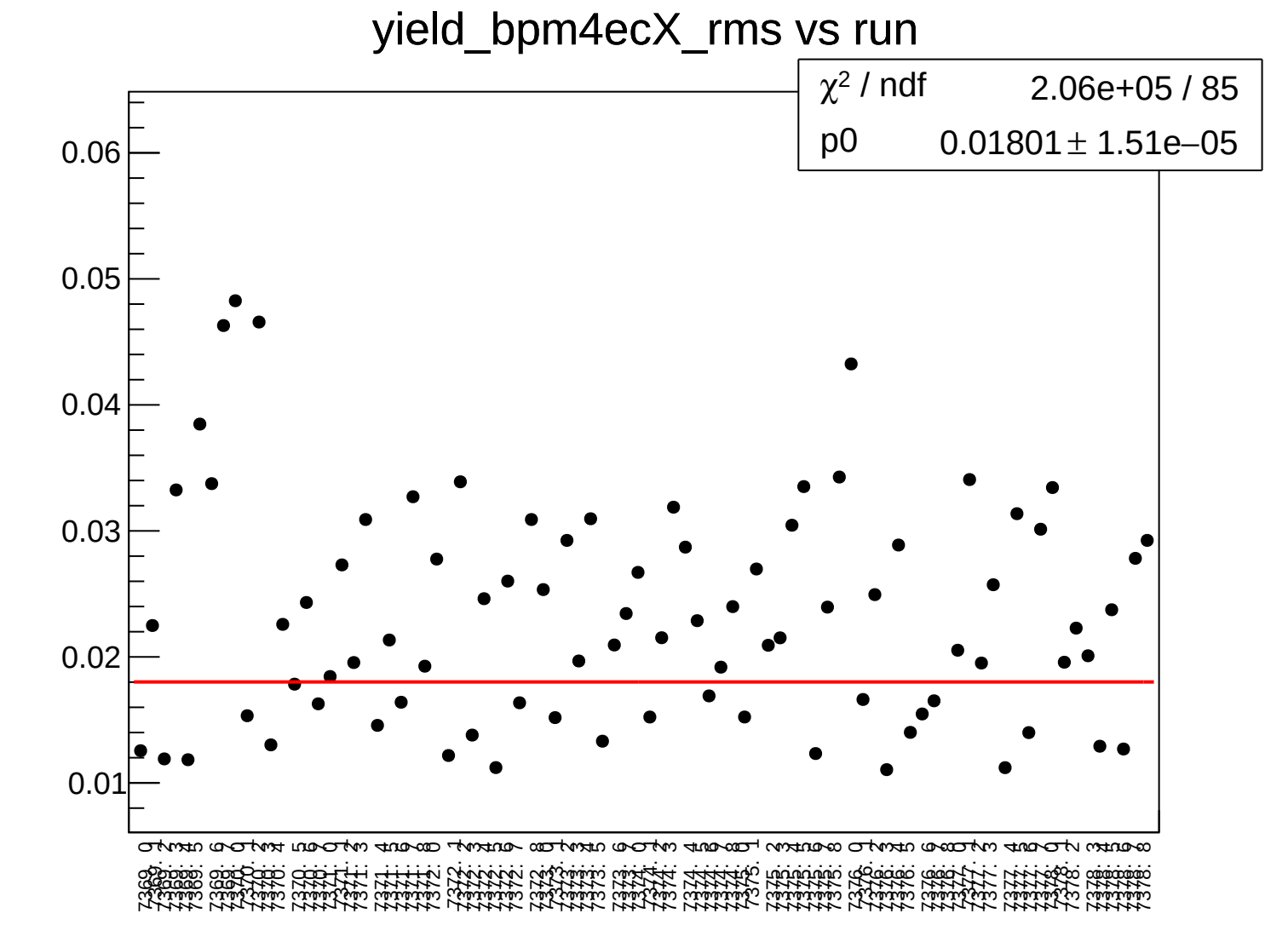

yield_bpm4acY_mean vs run
χ² / ndf 7.892e+06 / 85
p0 0.6968 ± 1.257e−05
0.78
0.76
0.74
0.72
0.7
0.68
0.66
pull
Entries 86
Mean −2445
Std Dev 2497
800
600
400
200
0
−200

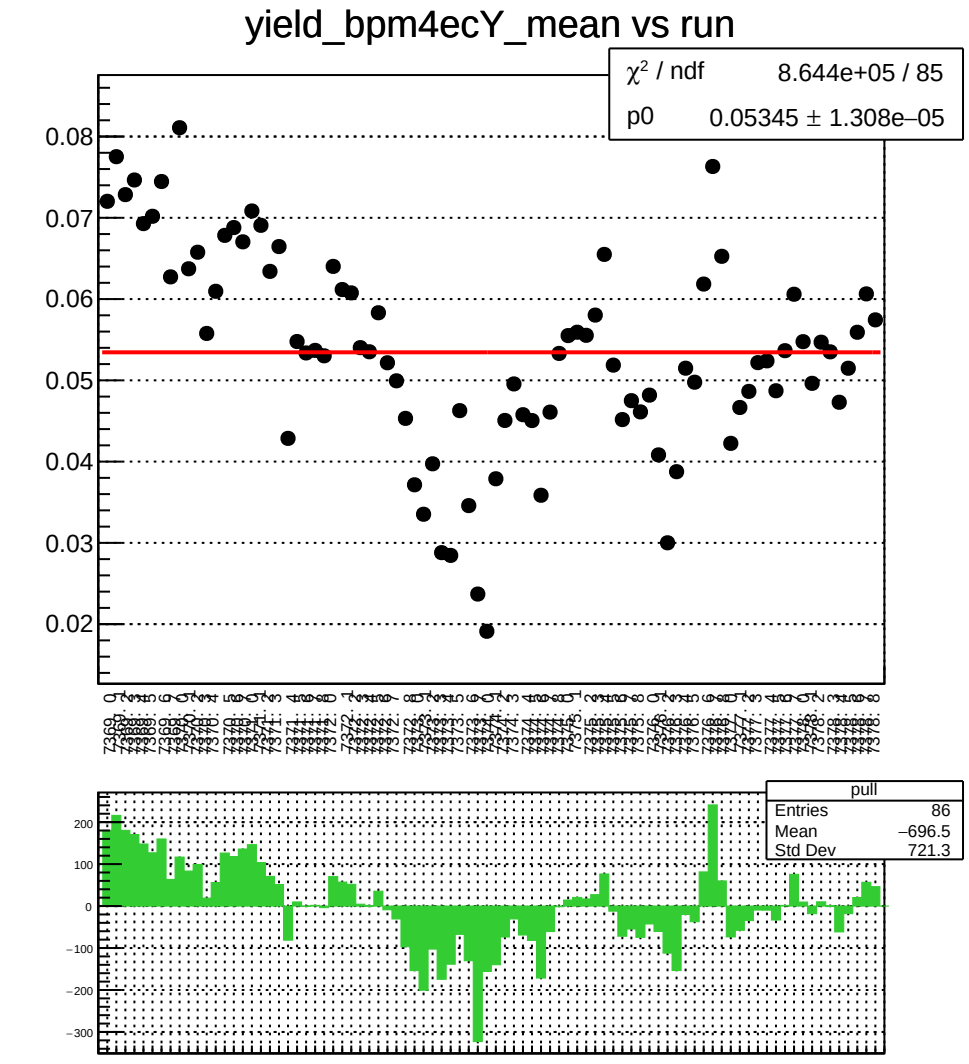

pull1D
Entries 86
Mean 6.202
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

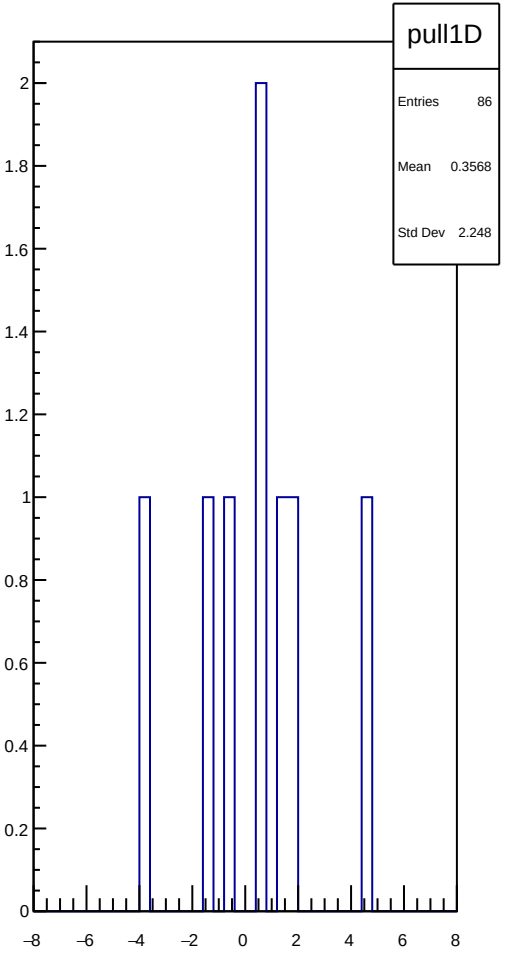

yield_bpm4acY_rms vs run
χ² / ndf 2.036e+04 / 85
p0 0.01127 ± 8.886e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

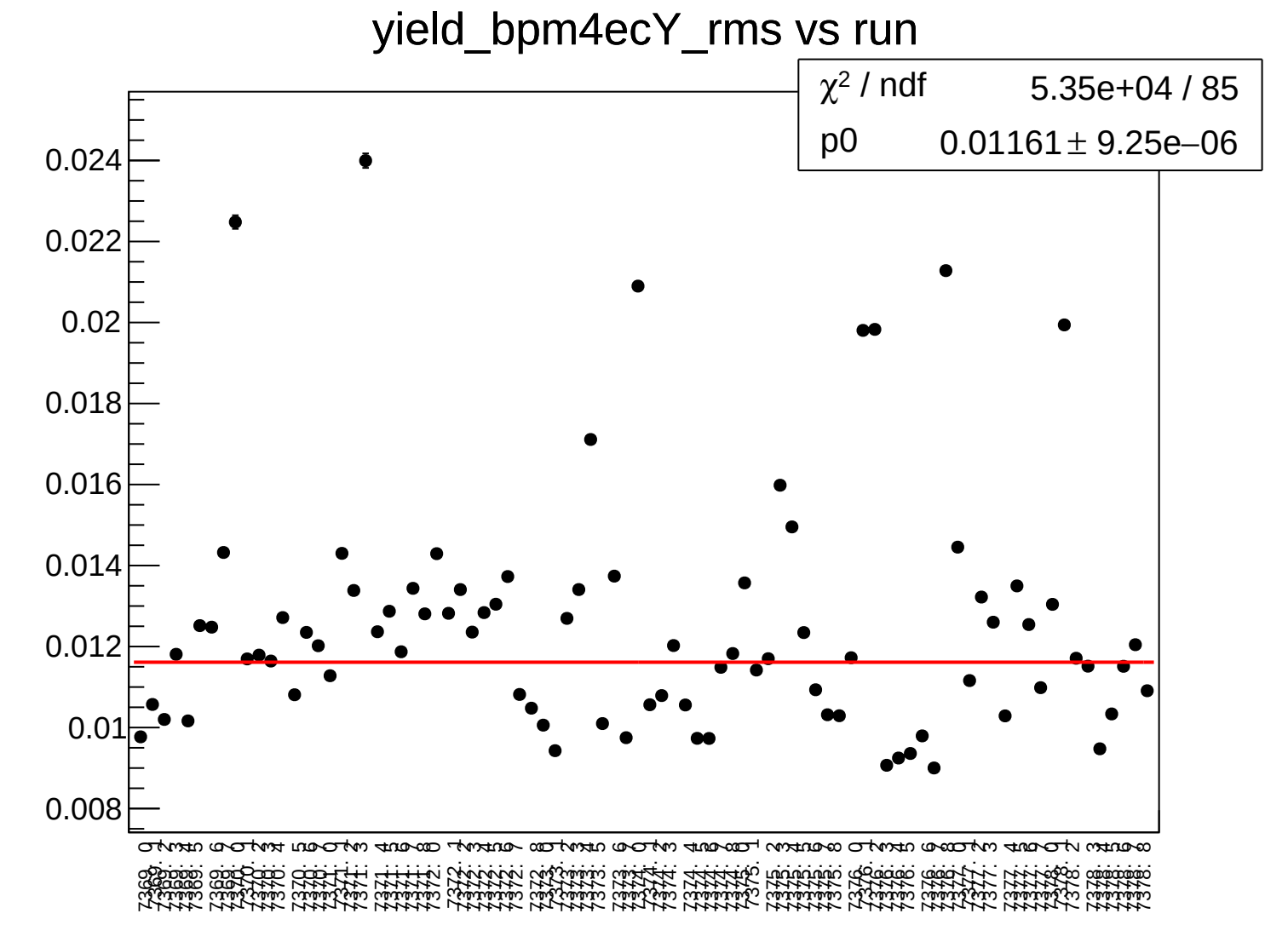

yield_bpm4ecX_mean vs run
χ² / ndf 3.624e+06 / 85
p0 0.01479 ± 2.135e–05
pull
Entries 86
Mean 105.2
Std Dev 72.4

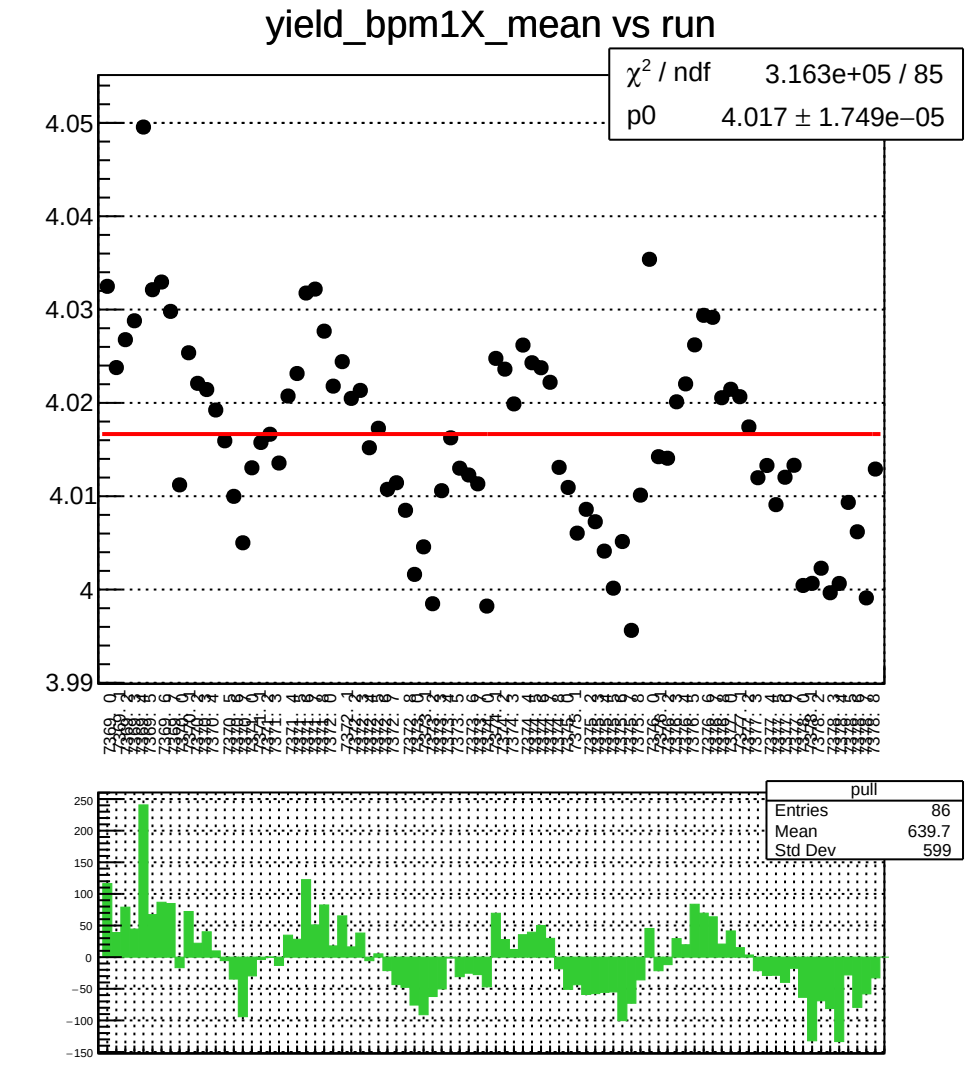

pull1D
Entries 86
Mean 0.8876
Std Dev 1.785

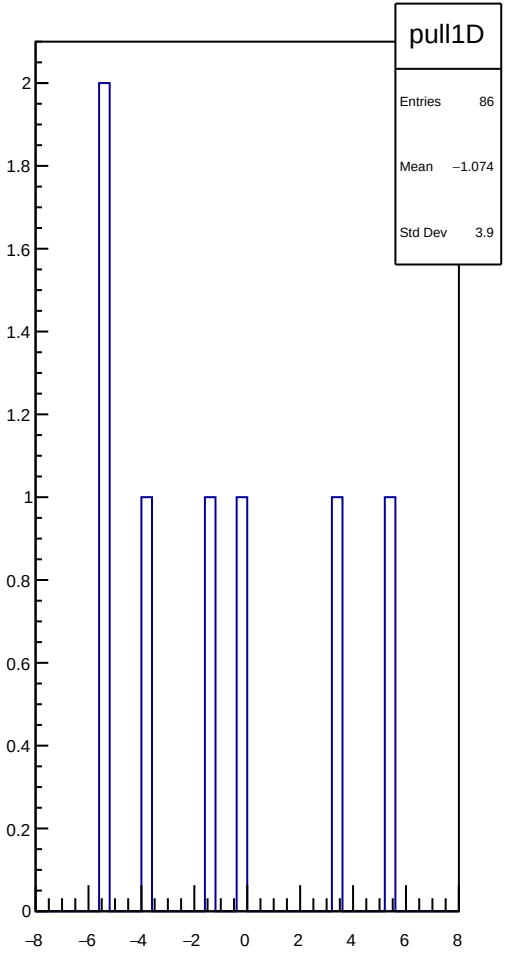

yield_bpm4ecX_rms vs run
χ² / ndf 2.06e+05 / 85
p0 0.01801 ± 1.51e−05
0.06
0.05
0.04
0.03
0.02
0.01

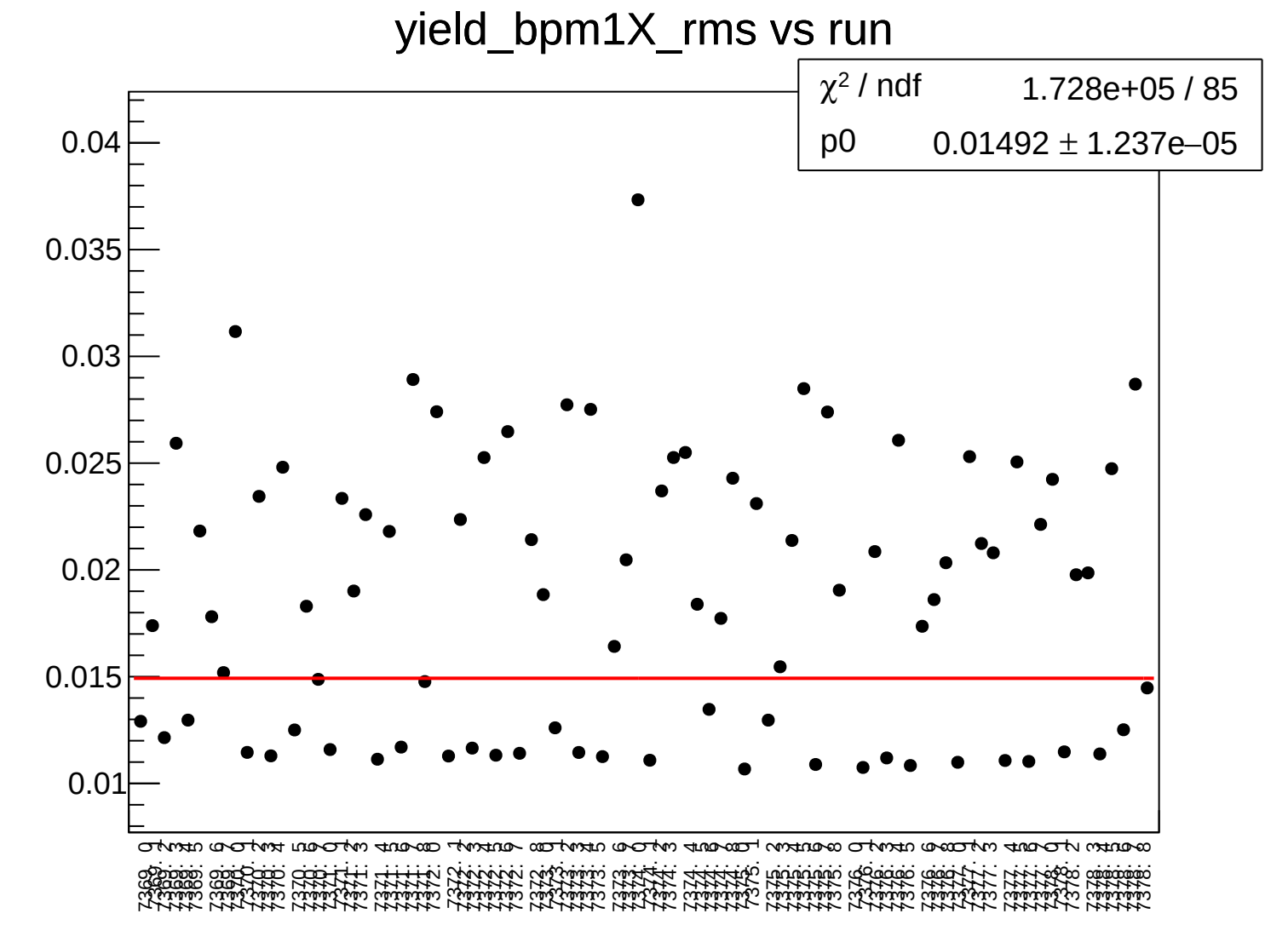

yield_bpm4ecY_mean vs run
χ² / ndf 8.644e+05 / 85
p0 0.05345 ± 1.308e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
pull
Entries 86
Mean −696.5
Std Dev 721.3
200
100
0
−100
−200
−300

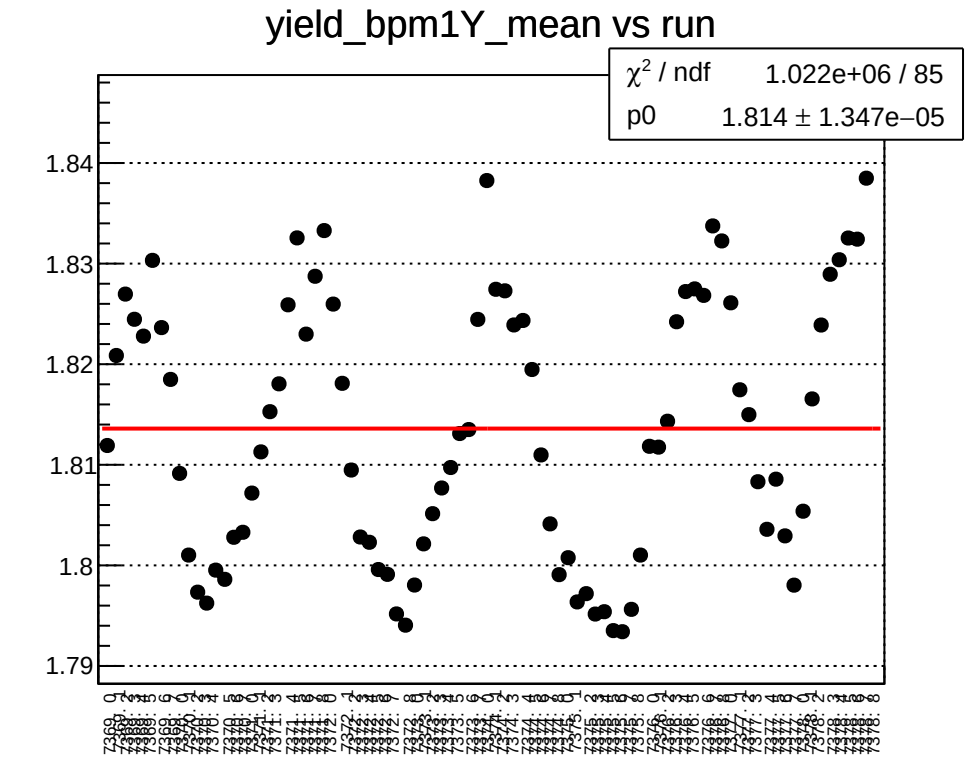

pull1D
Entries 86
Mean 0.3568
Std Dev 2.248
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

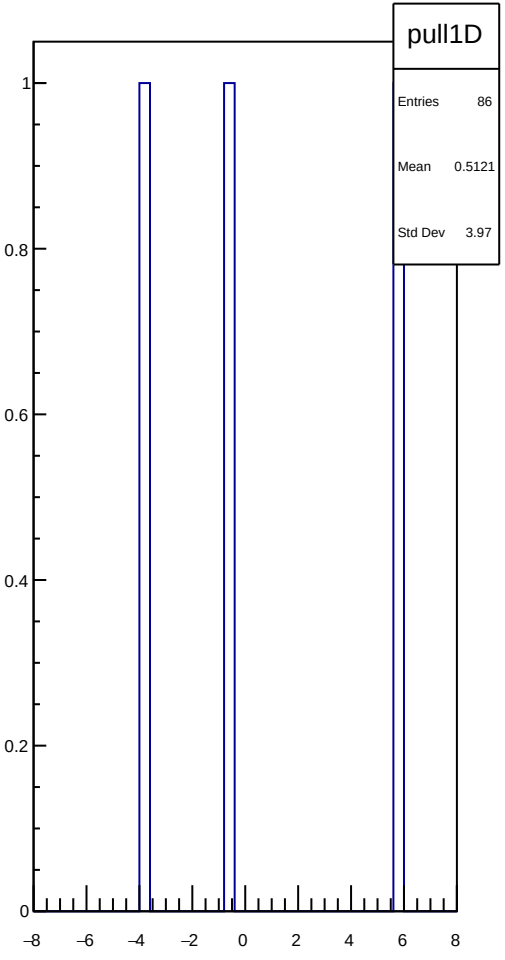

yield_bpm4ecY_rms vs run
χ² / ndf 5.35e+04 / 85
p0 0.01161 ± 9.25e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

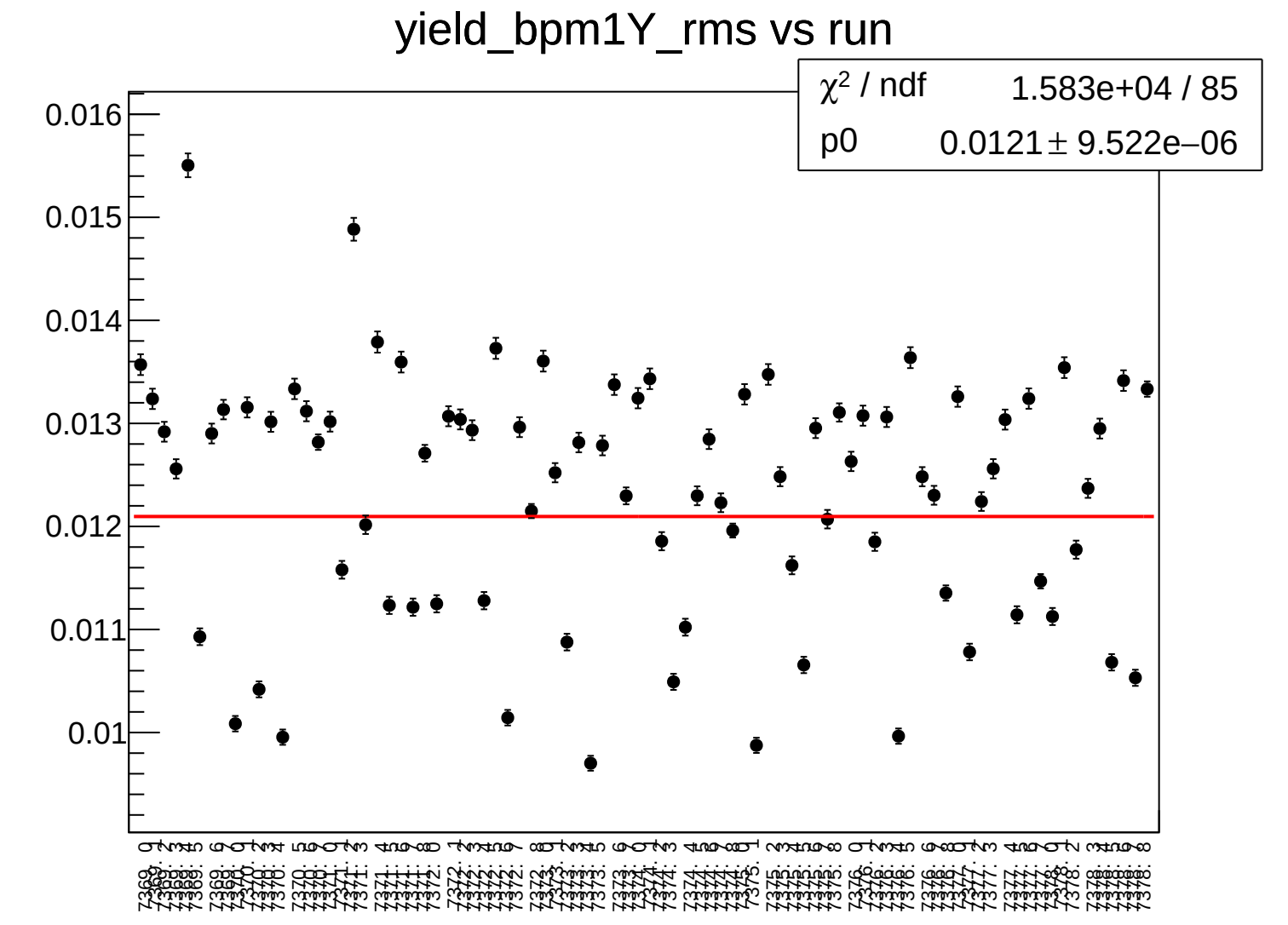

yield_bpm1X_mean vs run
χ² / ndf 3.163e+05 / 85
p0 4.017 ± 1.749e−05
4.05
4.04
4.03
4.02
4.01
4
3.99
pull
Entries 86
Mean 639.7
Std Dev 599
250
200
150
100
50
0
−50
−100
−150

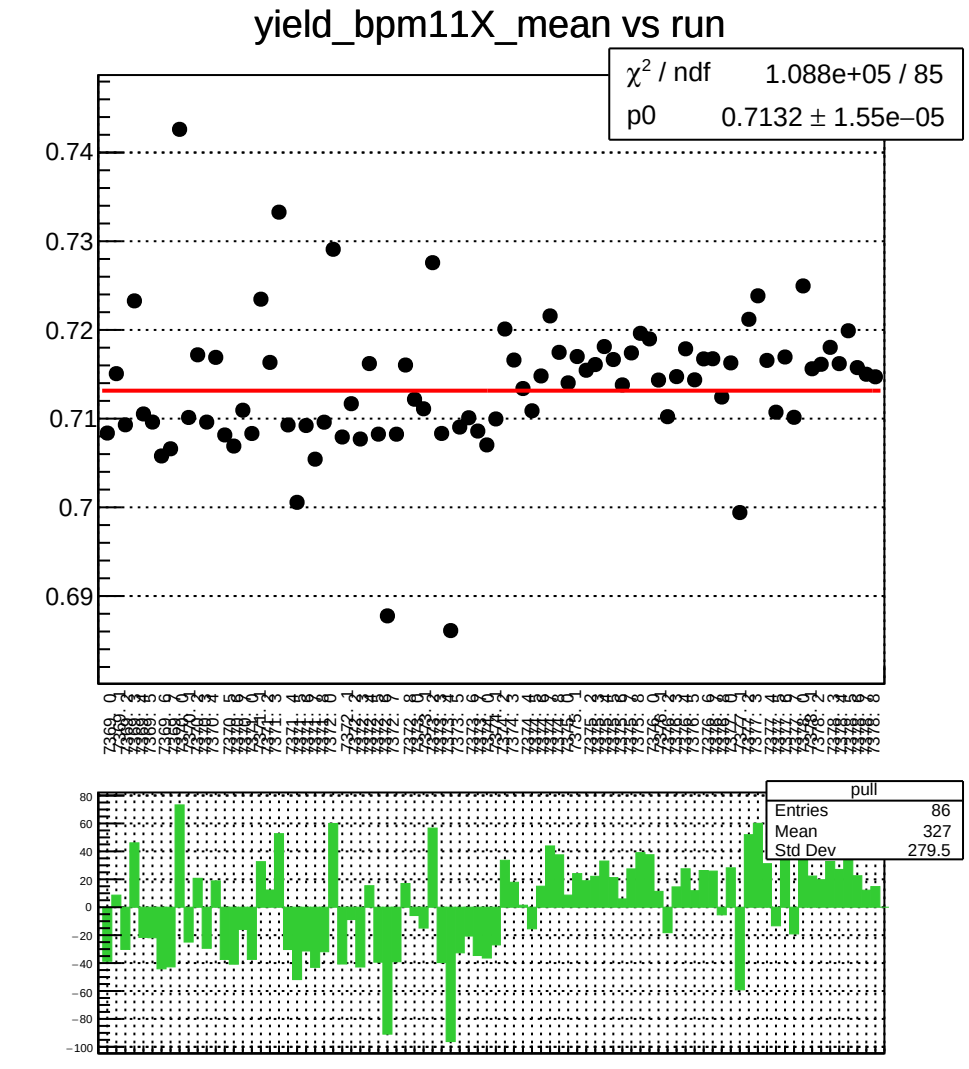

pull1D
Entries 86
Mean −1.074
Std Dev 3.9
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

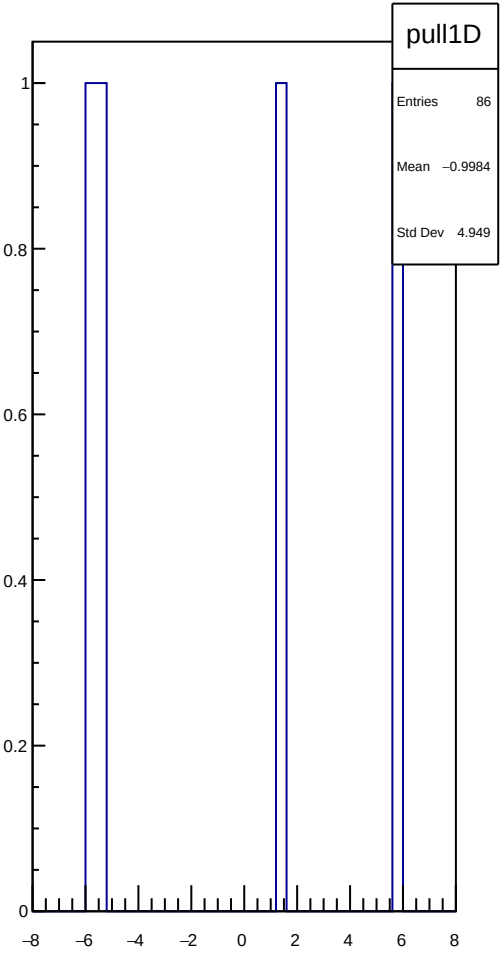

yield_bpm1X_rms vs run
χ² / ndf 1.728e+05 / 85
p0 0.01492 ± 1.237e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

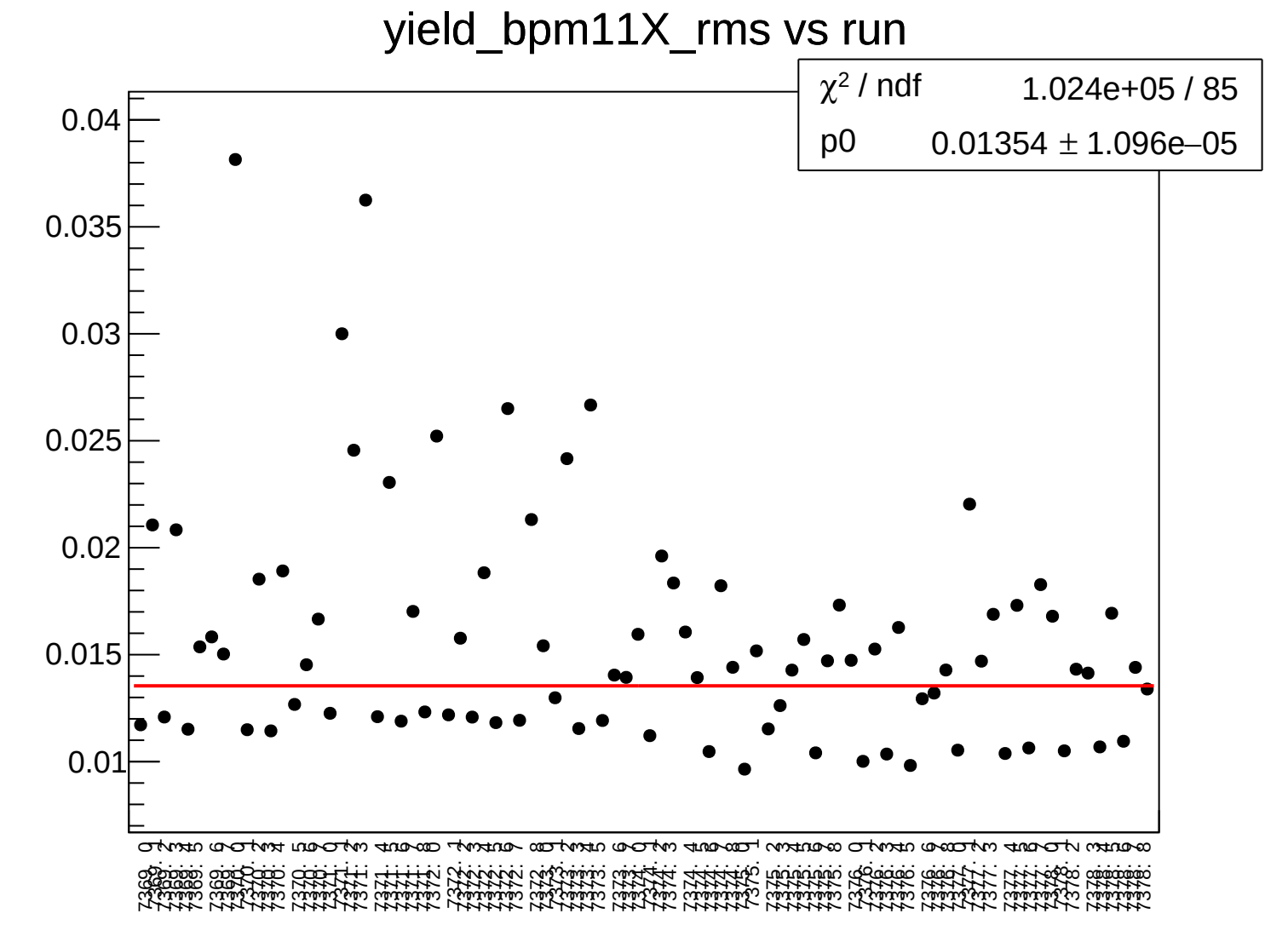

yield_bpm1Y_mean vs run
χ² / ndf 1.022e+06 / 85
p0 1.814 ± 1.347e−05
1.84
1.83
1.82
1.81
1.8
1.79
pull
Entries 86
Mean 474.5
Std Dev 406.8
300
200
100
0
−100
−200

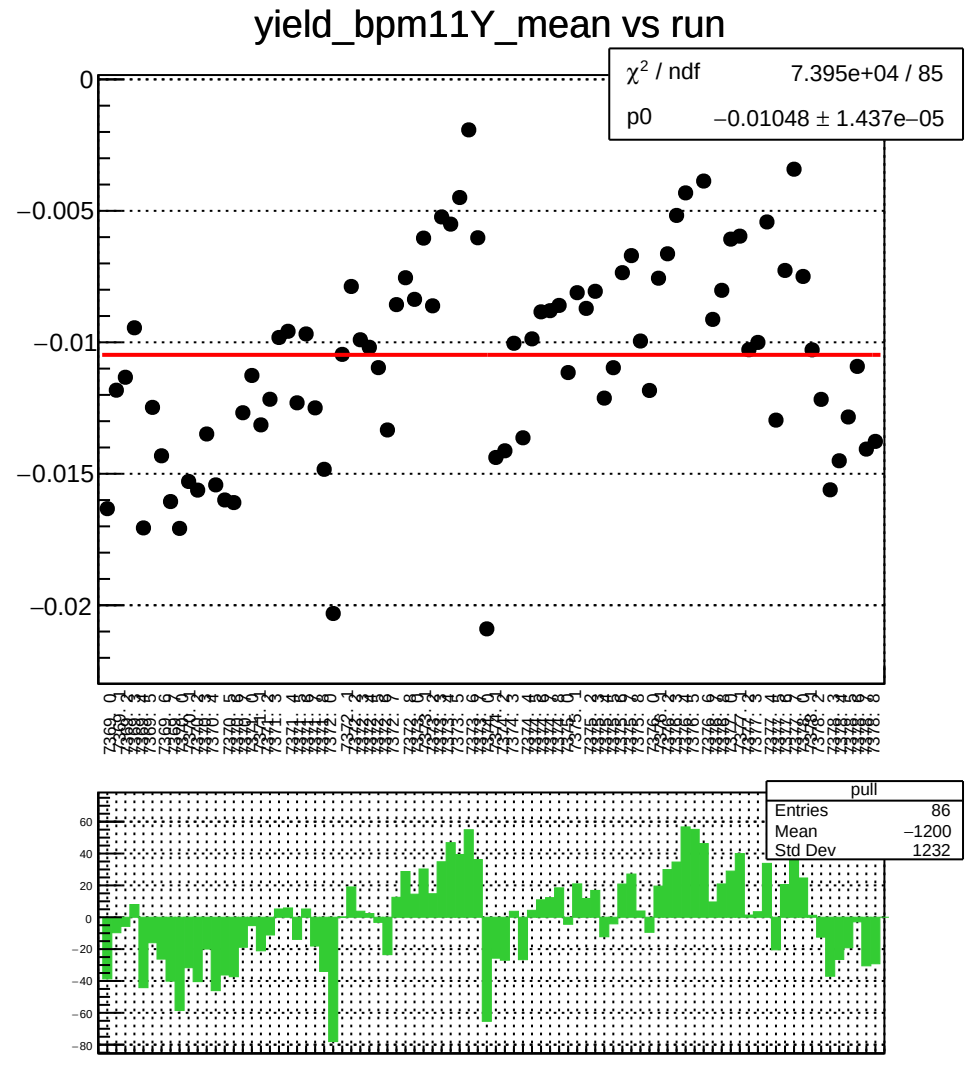

pull1D
Entries 86
Mean 0.5121
Std Dev 3.97
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

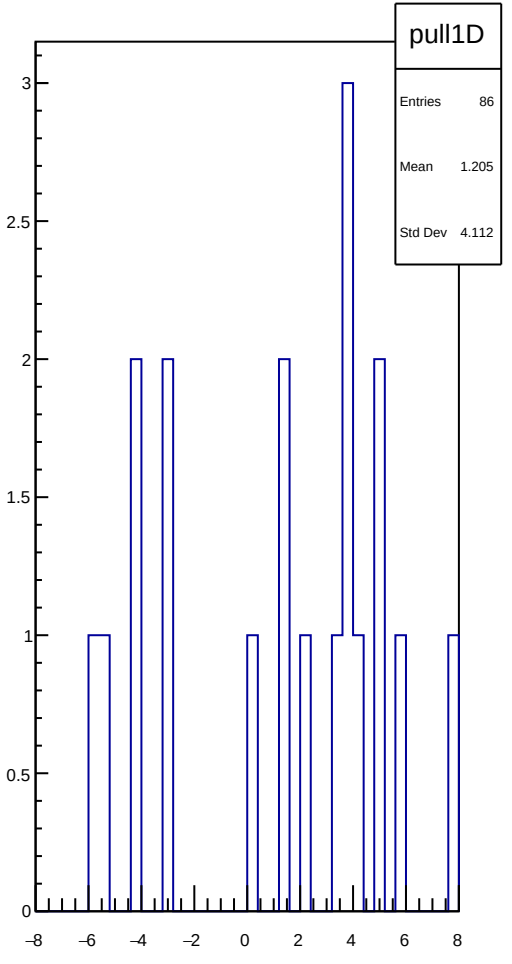

yield_bpm1Y_rms vs run
χ² / ndf 1.583e+04 / 85
p0 0.0121 ± 9.522e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01

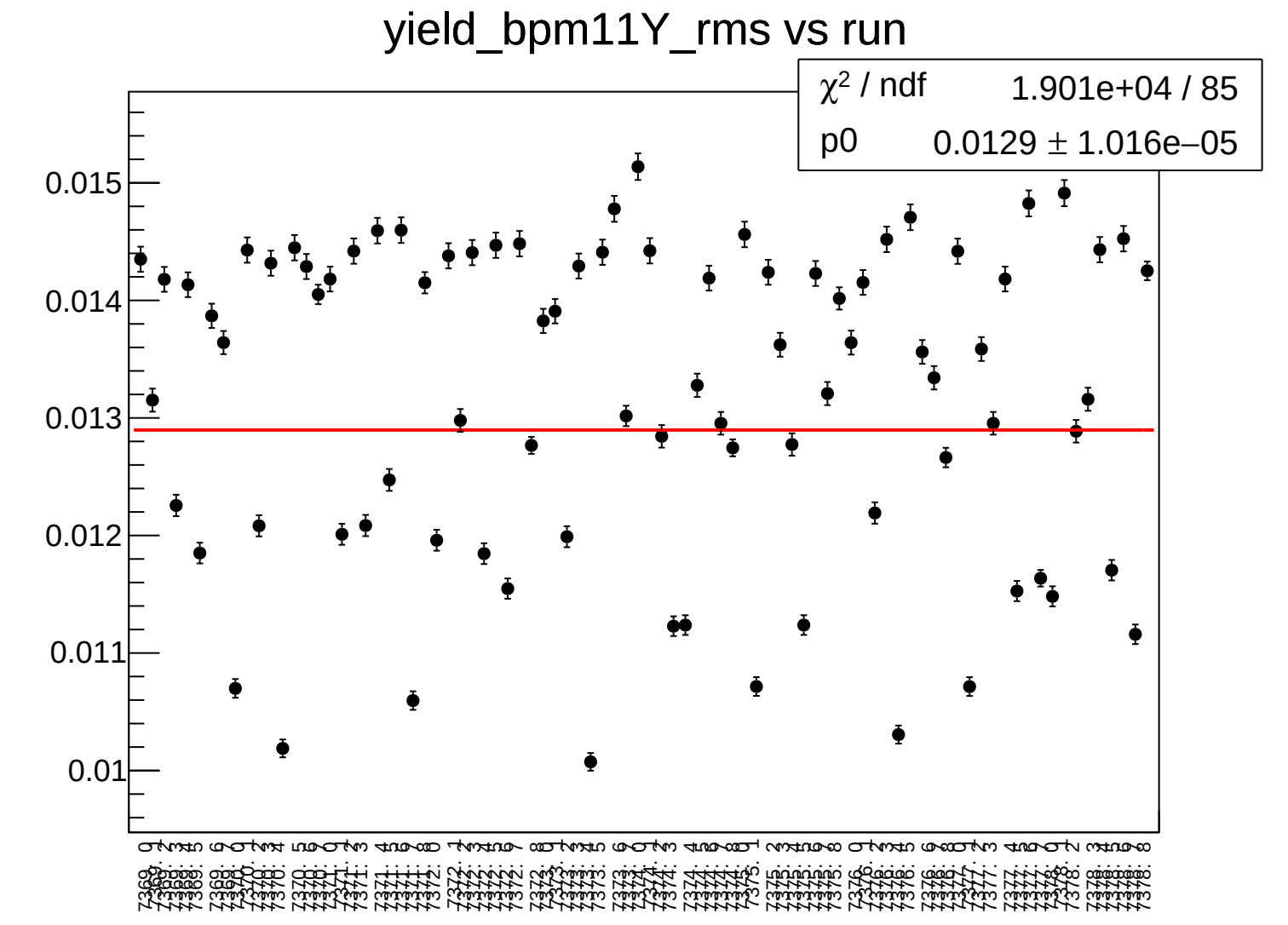

yield_bpm11X_mean vs run
χ² / ndf 1.088e+05 / 85
p0 0.7132 ± 1.55e−05
0.74
0.73
0.72
0.71
0.7
0.69
pull
Entries 86
Mean 327
Std Dev 279.5
80
60
40
20
0
−20
−40
−60
−80
−100

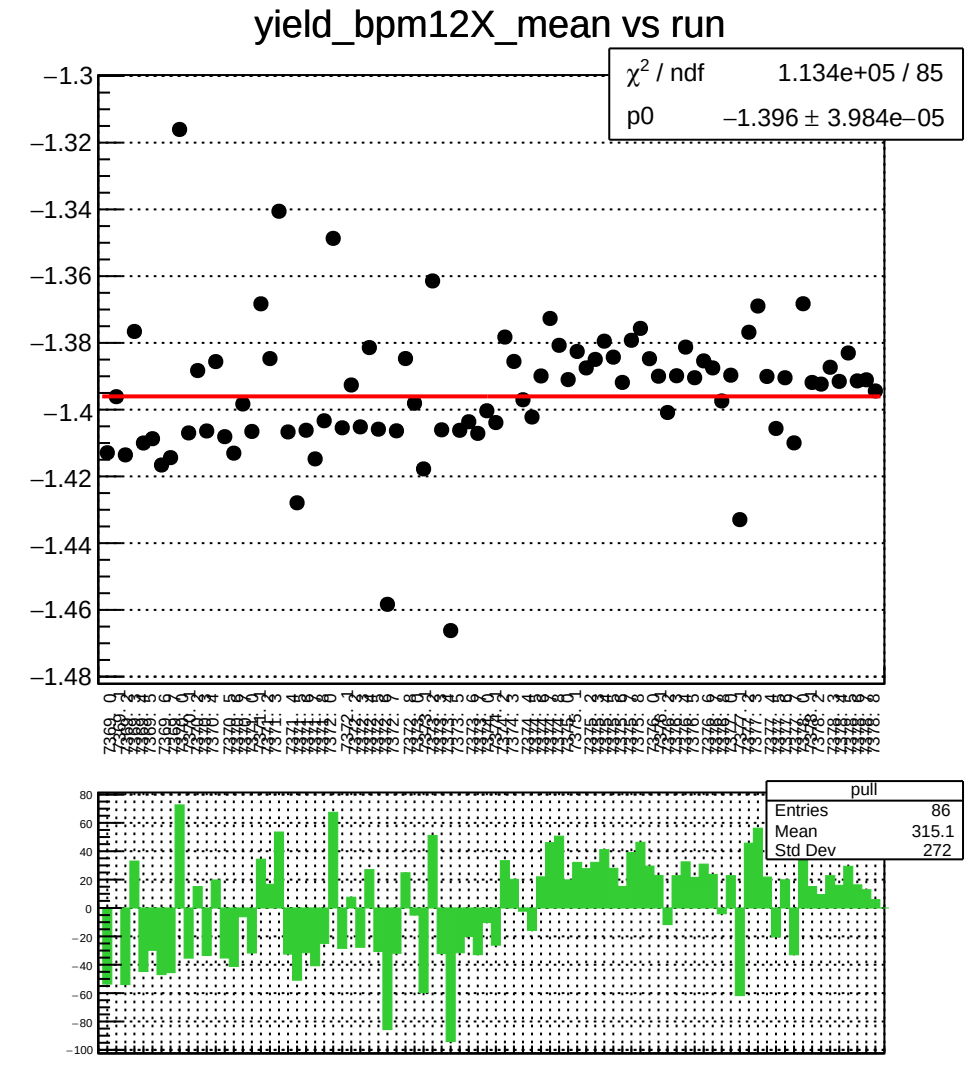

pull1D
Entries 86
Mean −0.9984
Std Dev 4.949
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

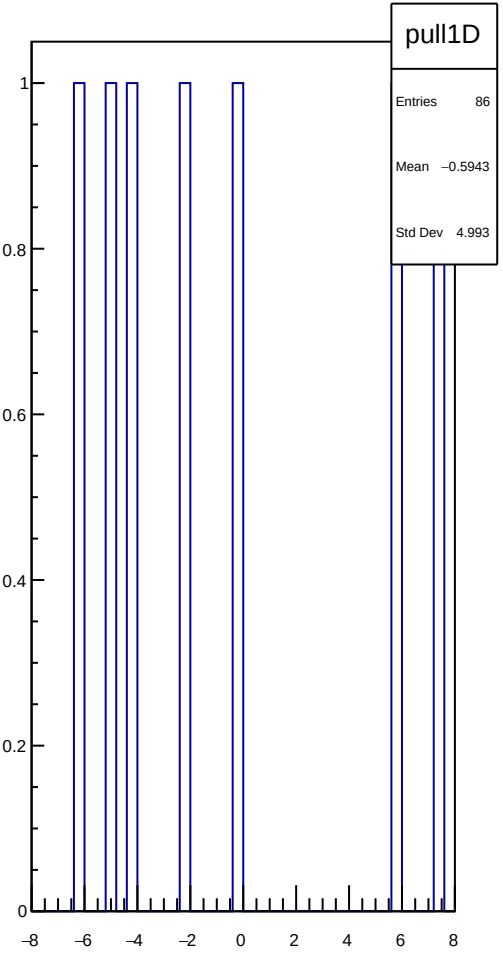

yield_bpm11X_rms vs run
χ² / ndf 1.024e+05 / 85
p0 0.01354 ± 1.096e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

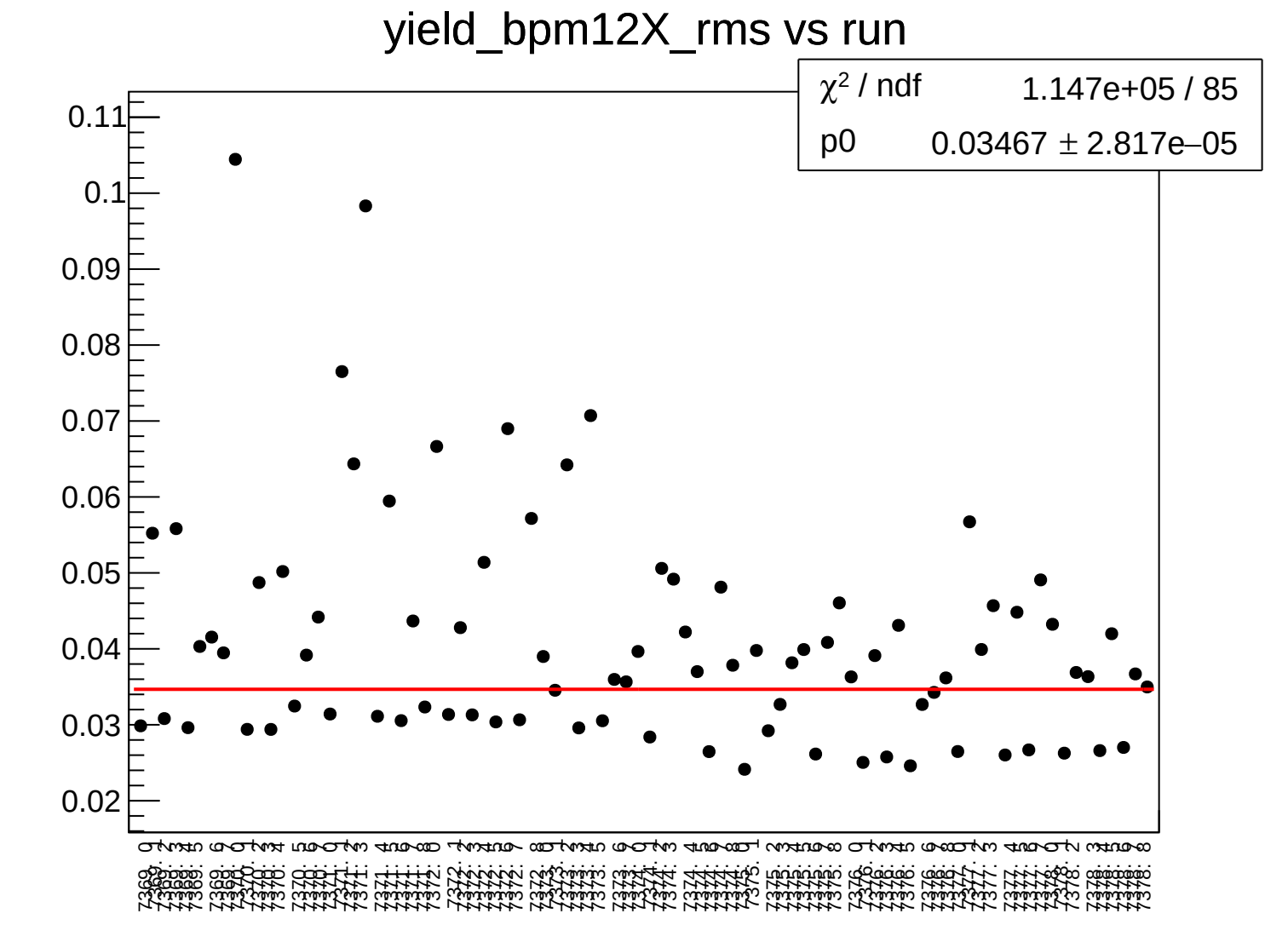

yield_bpm11Y_mean vs run
χ² / ndf 7.395e+04 / 85
p0 −0.01048 ± 1.437e−05
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 86
Mean −1200
Std Dev 1232
60
40
20
0
−20
−40
−60
−80

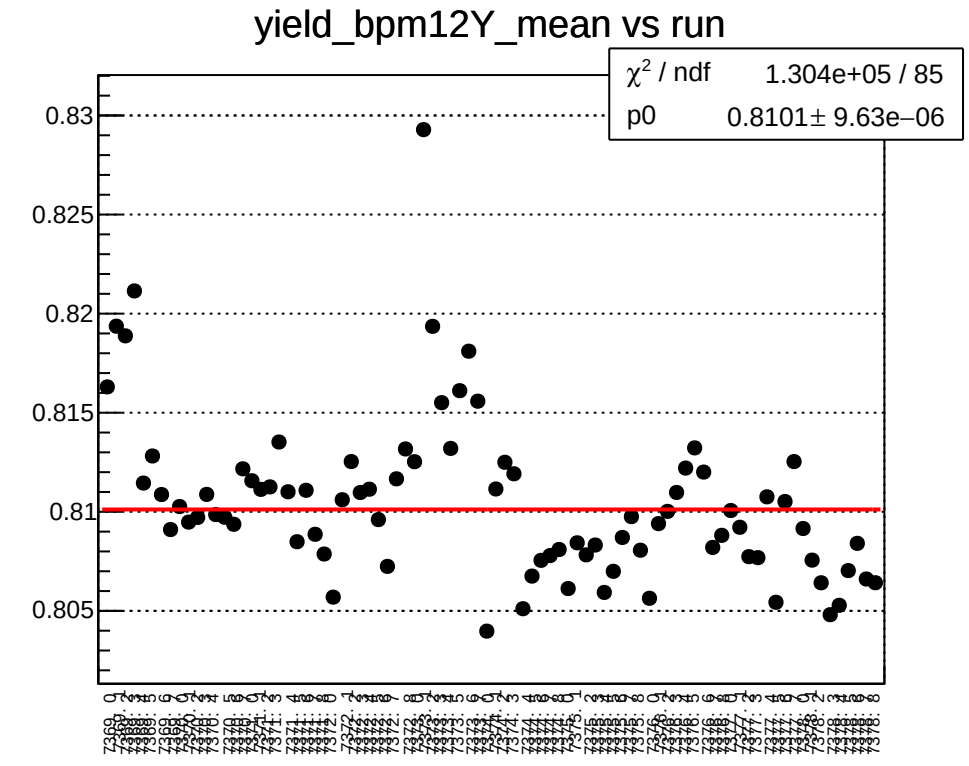

pull1D
Entries 86
Mean 1.205
Std Dev 4.112
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

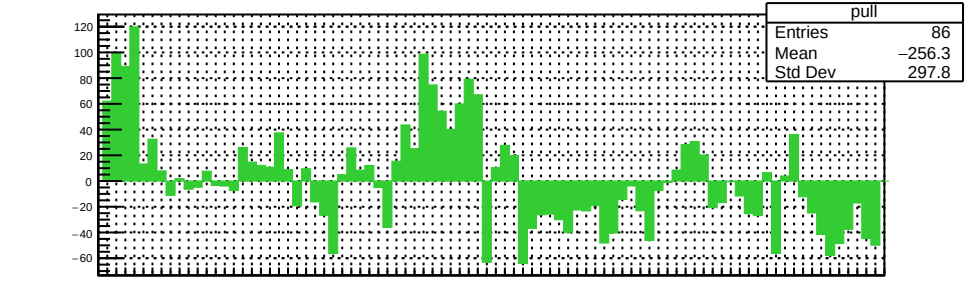

yield_bpm11Y_rms vs run
χ² / ndf 1.901e+04 / 85
p0 0.0129 ± 1.016e−05
0.015
0.014
0.013
0.012
0.011
0.01

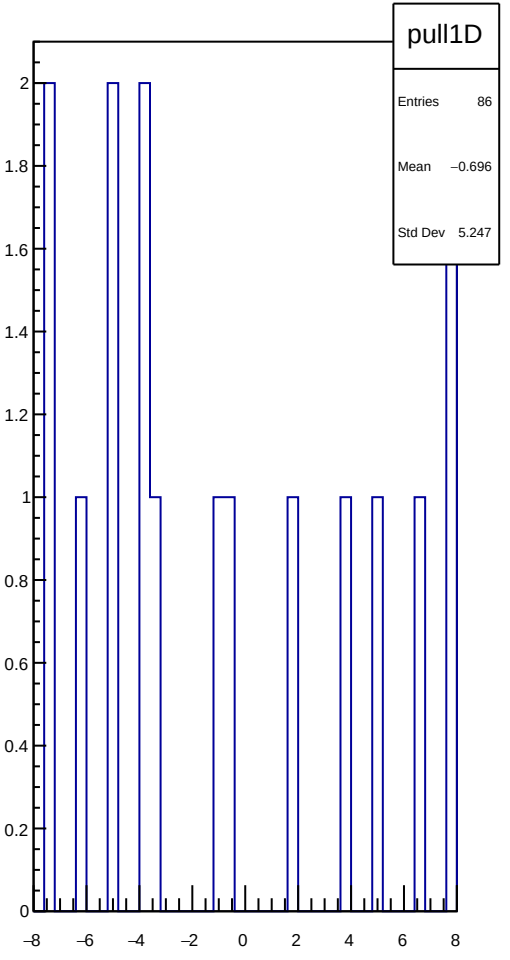

yield_bpm12X_mean vs run
χ² / ndf 1.134e+05 / 85
p0 −1.396 ± 3.984e−05
pull
Entries 86
Mean 315.1
Std Dev 272

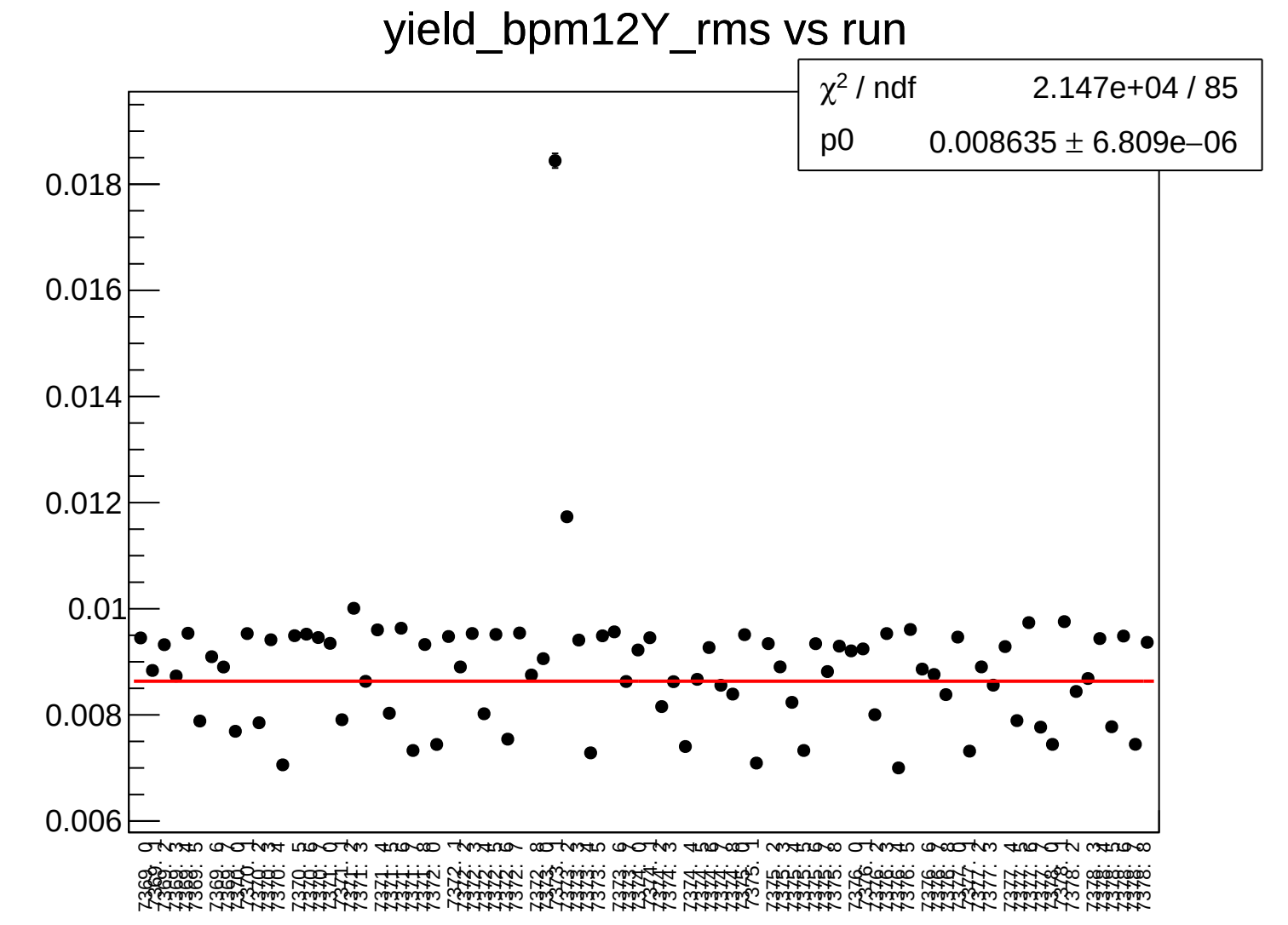

pull1D
Entries 86
Mean −0.5943
Std Dev 4.993

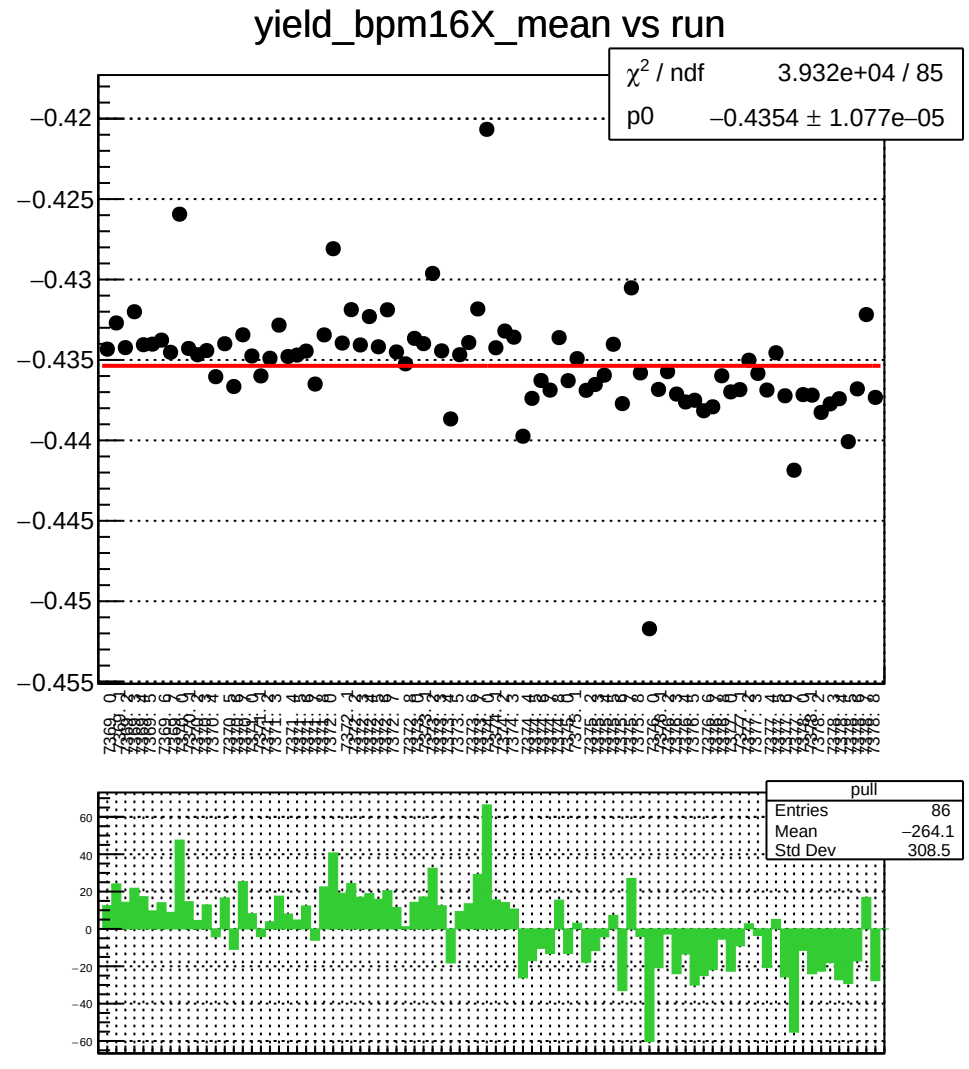

yield_bpm12X_rms vs run
χ² / ndf 1.147e+05 / 85
p0 0.03467 ± 2.817e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

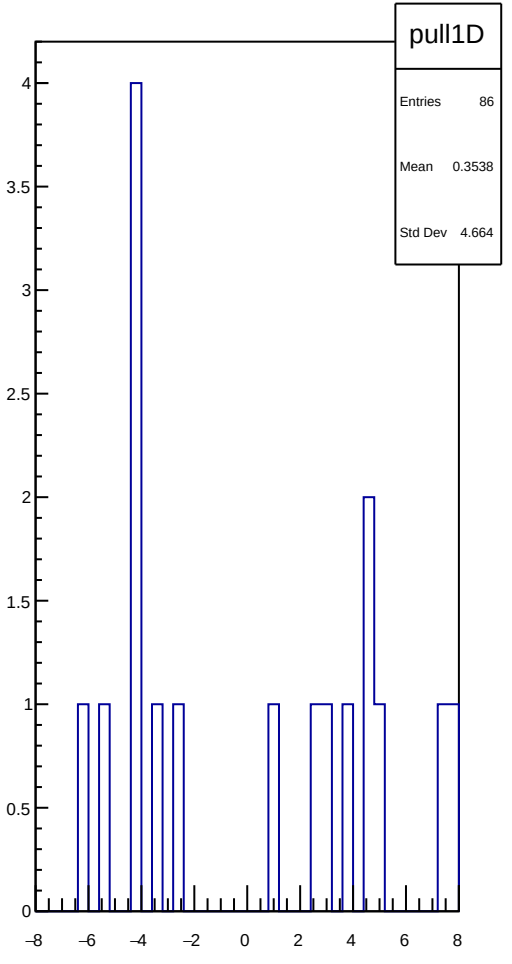

yield_bpm12Y_mean vs run
χ² / ndf 1.304e+05 / 85
p0 0.8101± 9.63e−06
0.83
0.825
0.82
0.815
0.81
0.805

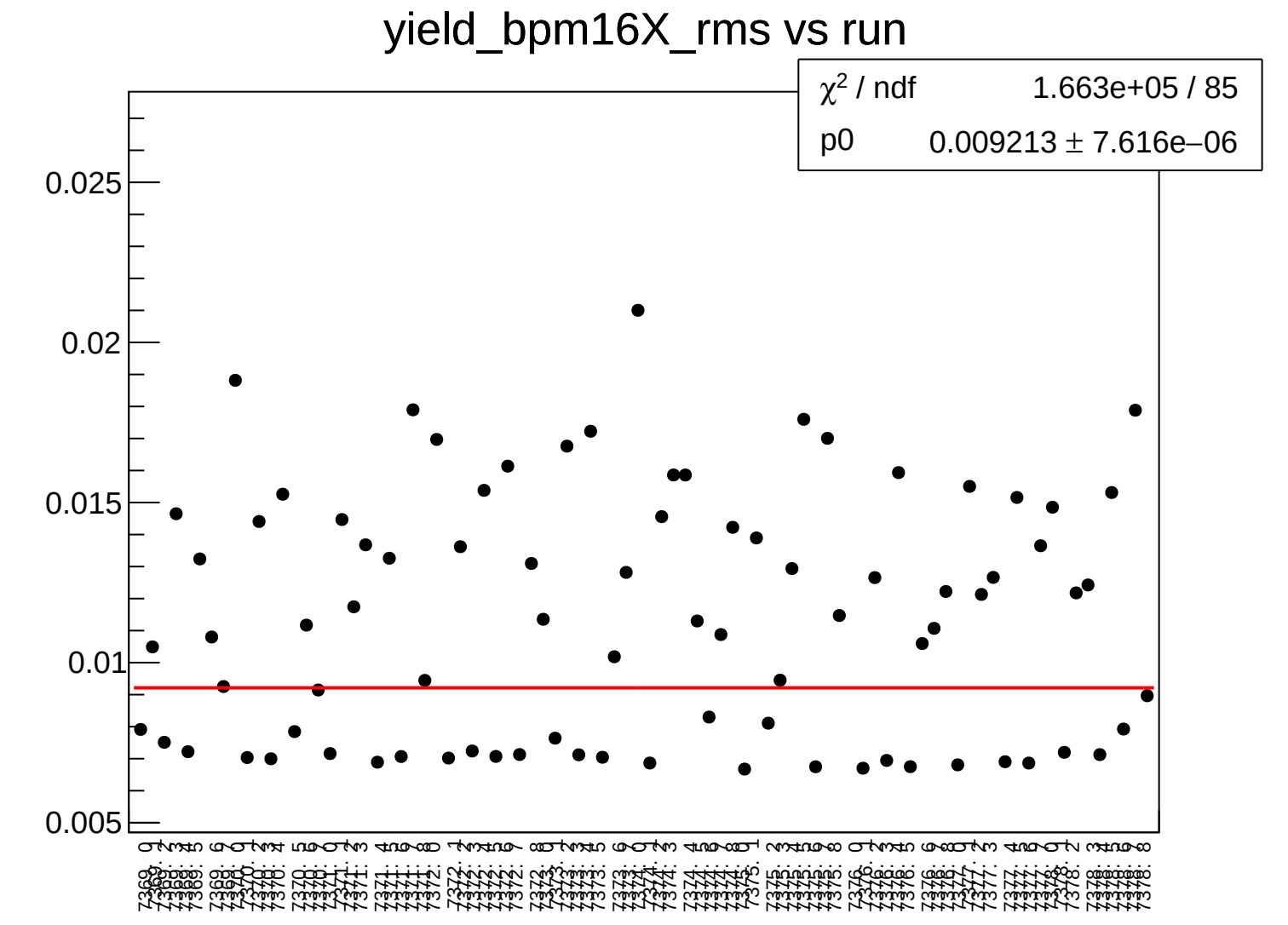

pull
Entries 86
Mean −256.3
Std Dev 297.8
120
100
80
60
40
20
0
−20
−40
−60

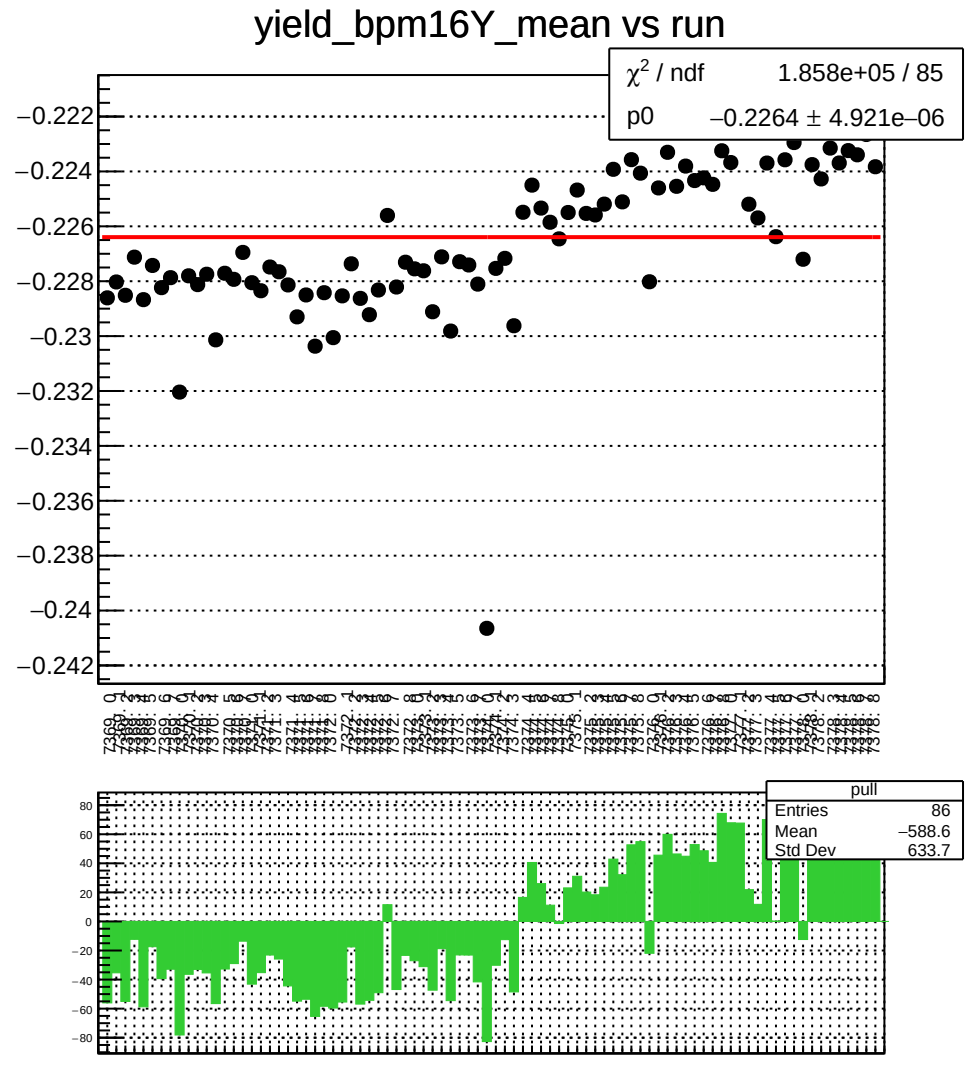

pull1D
Entries 86
Mean −0.696
Std Dev 5.247
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

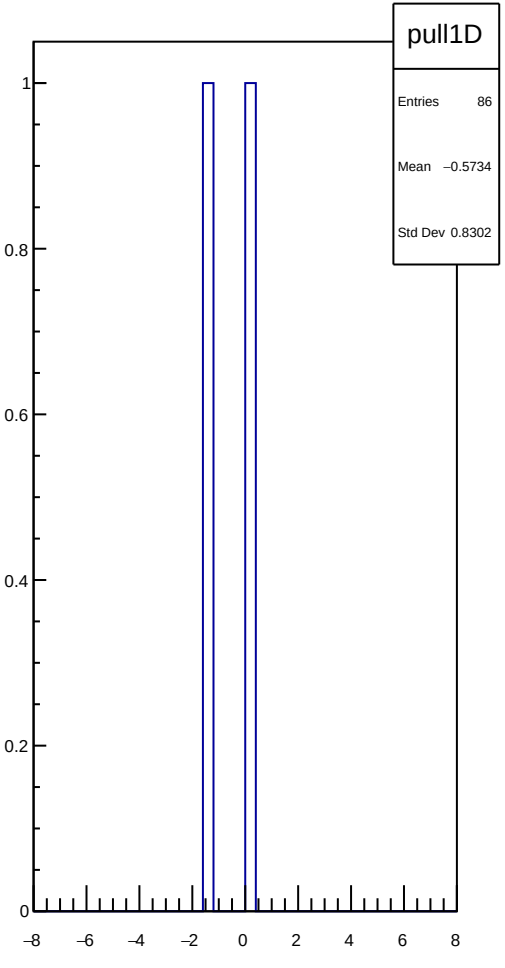

yield_bpm12Y_rms vs run
χ² / ndf 2.147e+04 / 85
p0 0.008635 ± 6.809e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

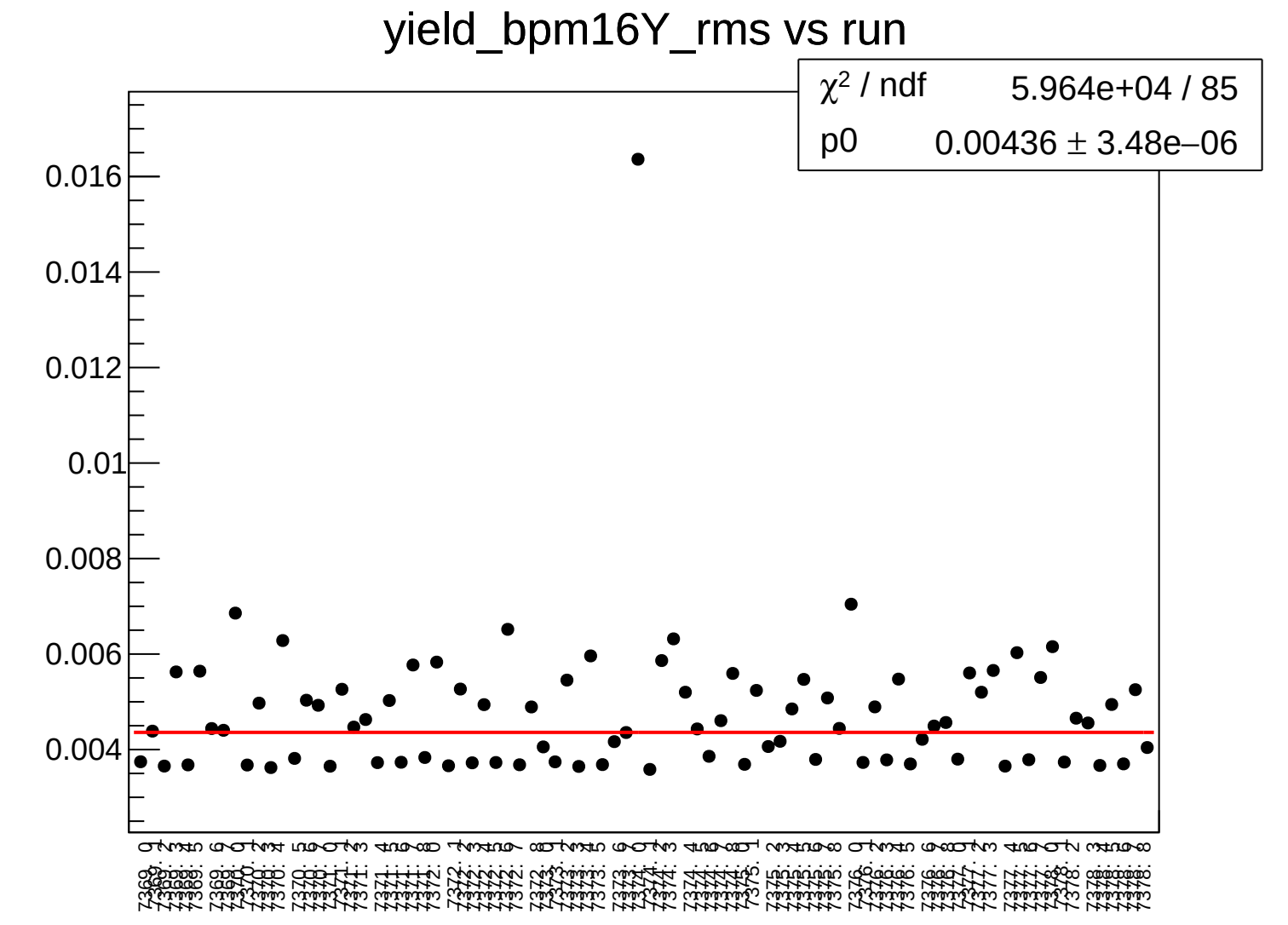

yield_bpm16X_mean vs run
χ² / ndf 3.932e+04 / 85
p0 −0.4354 ± 1.077e−05
−0.42
−0.425
−0.43
−0.435
−0.44
−0.445
−0.45
−0.455
pull
Entries 86
Mean −264.1
Std Dev 308.5
60
40
20
0
−20
−40
−60

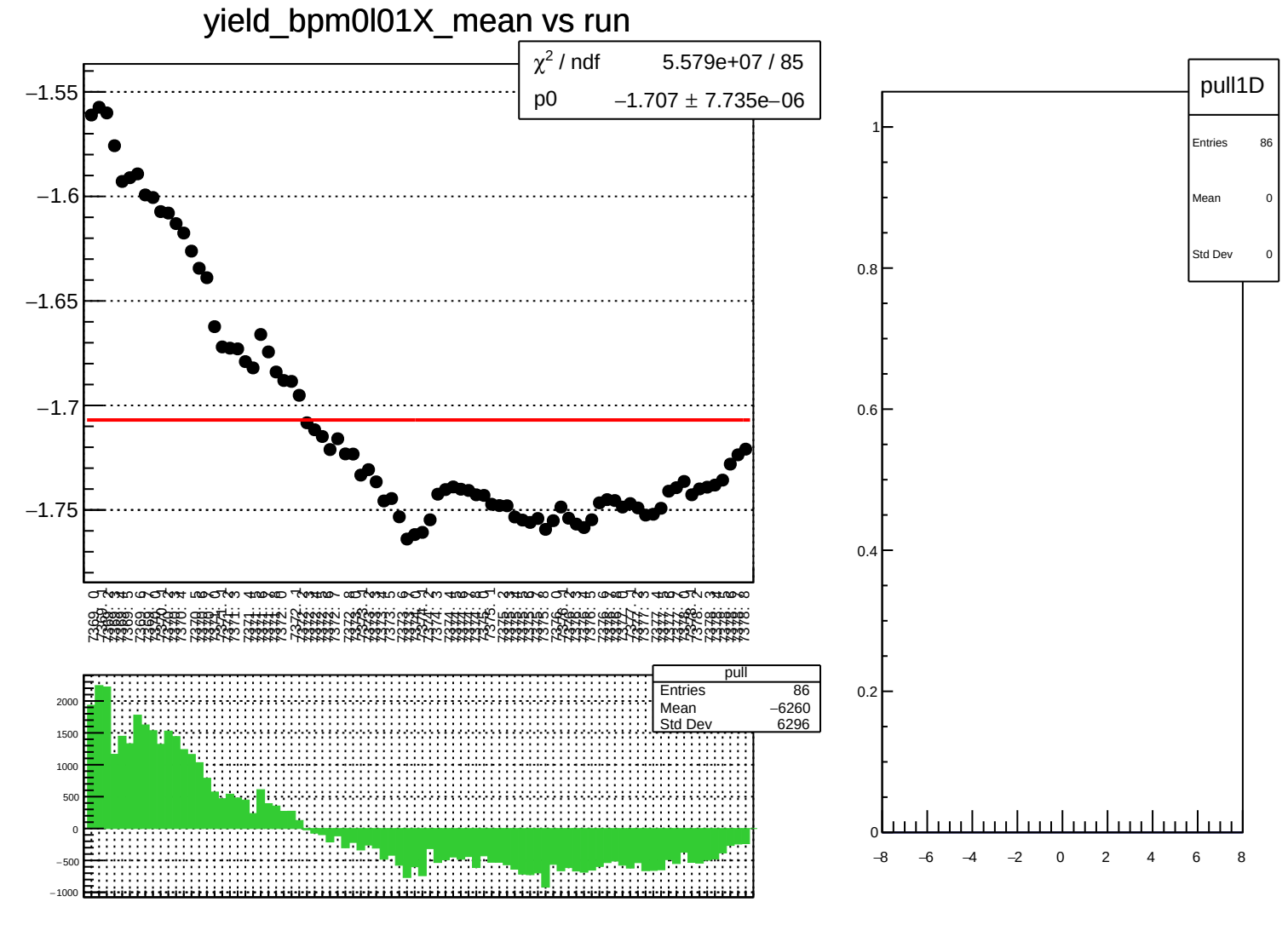

pull1D
Entries 86
Mean 0.3538
Std Dev 4.664
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

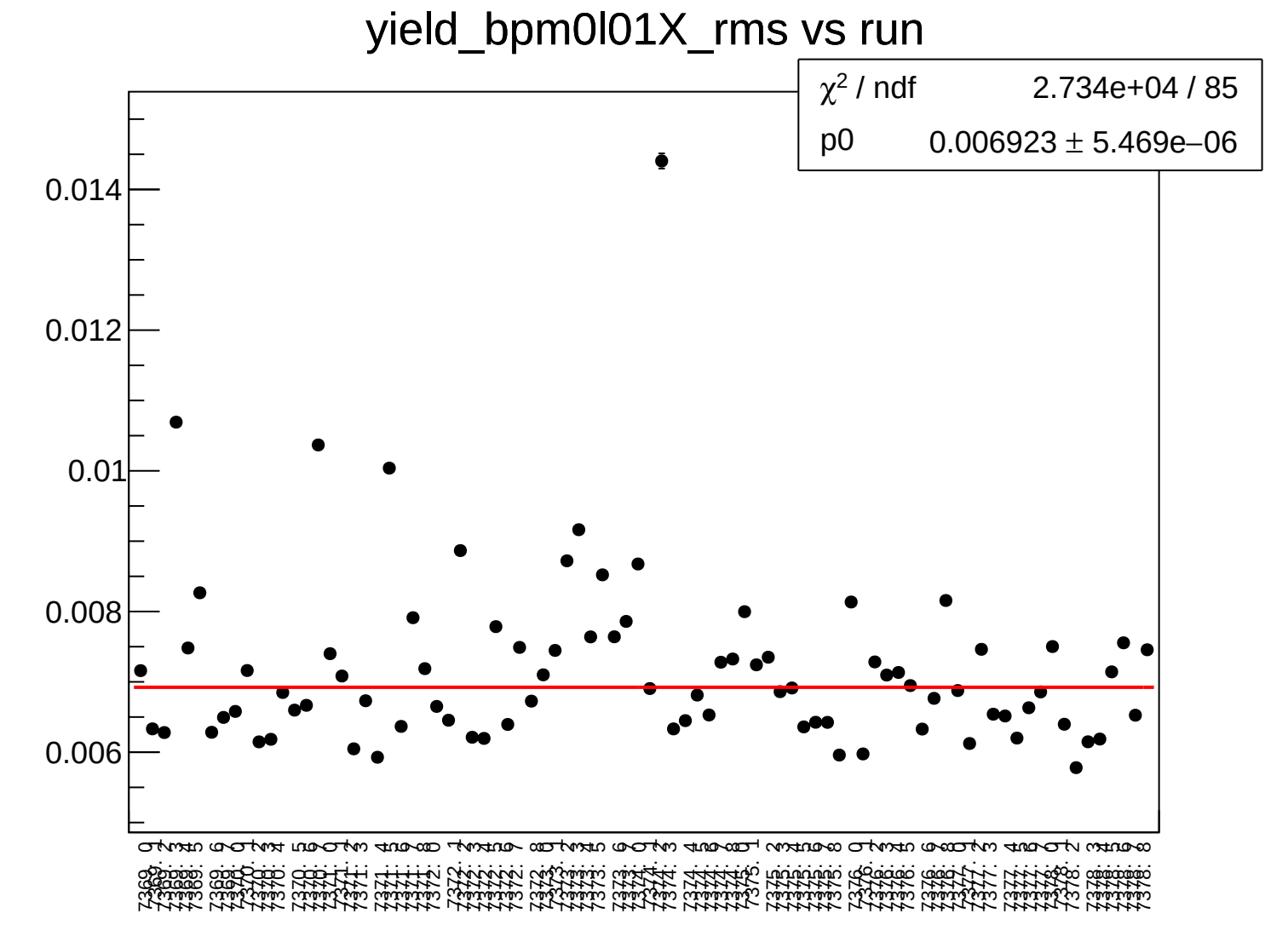

yield_bpm16X_rms vs run
χ² / ndf 1.663e+05 / 85
p0 0.009213 ± 7.616e−06
0.025
0.02
0.015
0.01
0.005

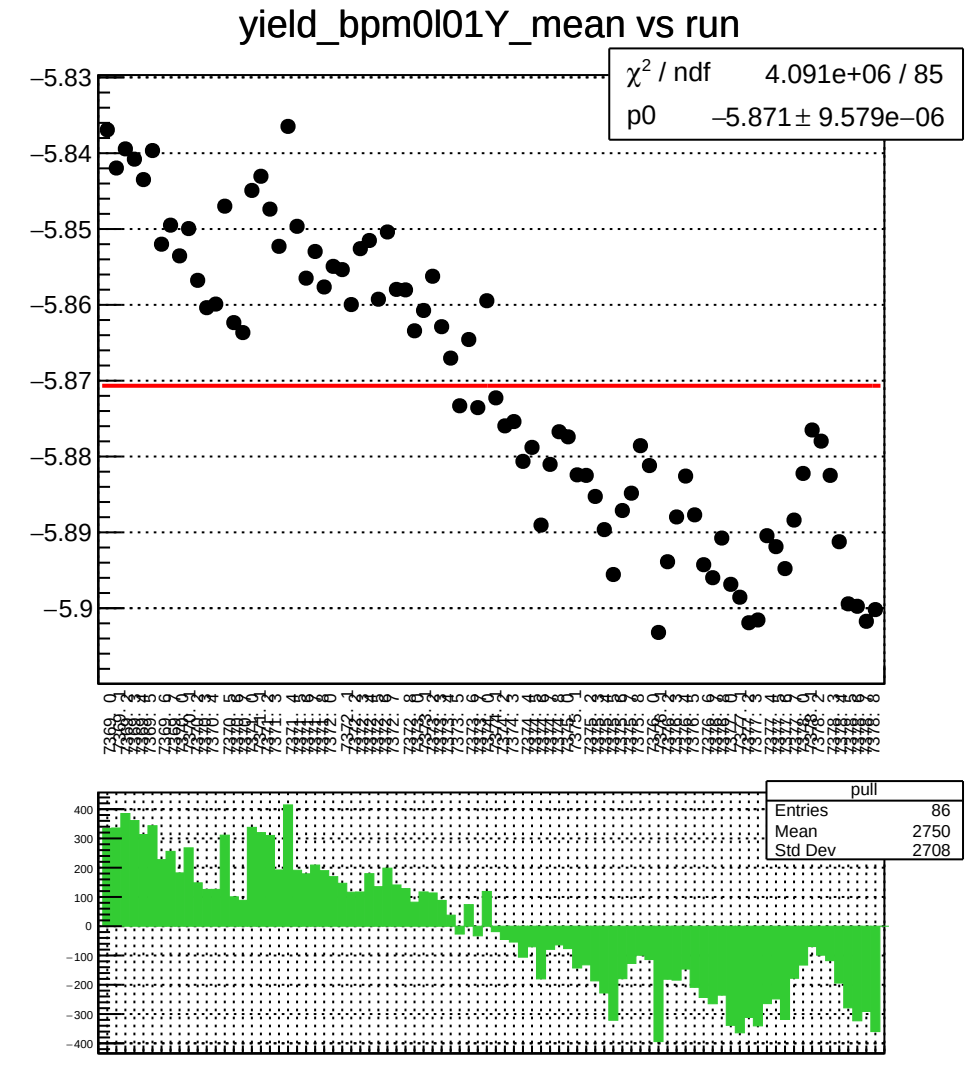

yield_bpm16Y_mean vs run
χ² / ndf 1.858e+05 / 85
p0 −0.2264 ± 4.921e−06
−0.222
−0.224
−0.226
−0.228
−0.23
−0.232
−0.234
−0.236
−0.238
−0.24
−0.242
pull
Entries 86
Mean −588.6
Std Dev 633.7
80
60
40
20
0
−20
−40
−60
−80

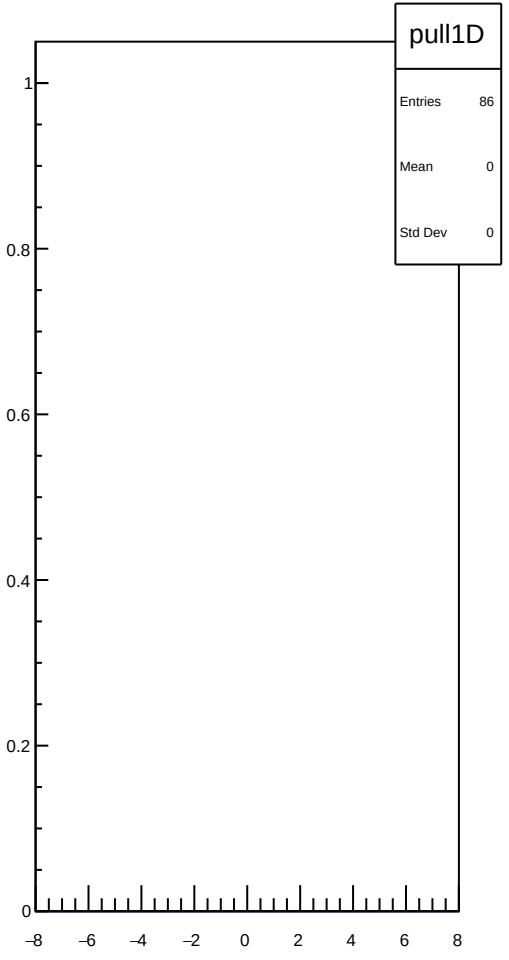

pull1D
Entries 86
Mean −0.5734
Std Dev 0.8302
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

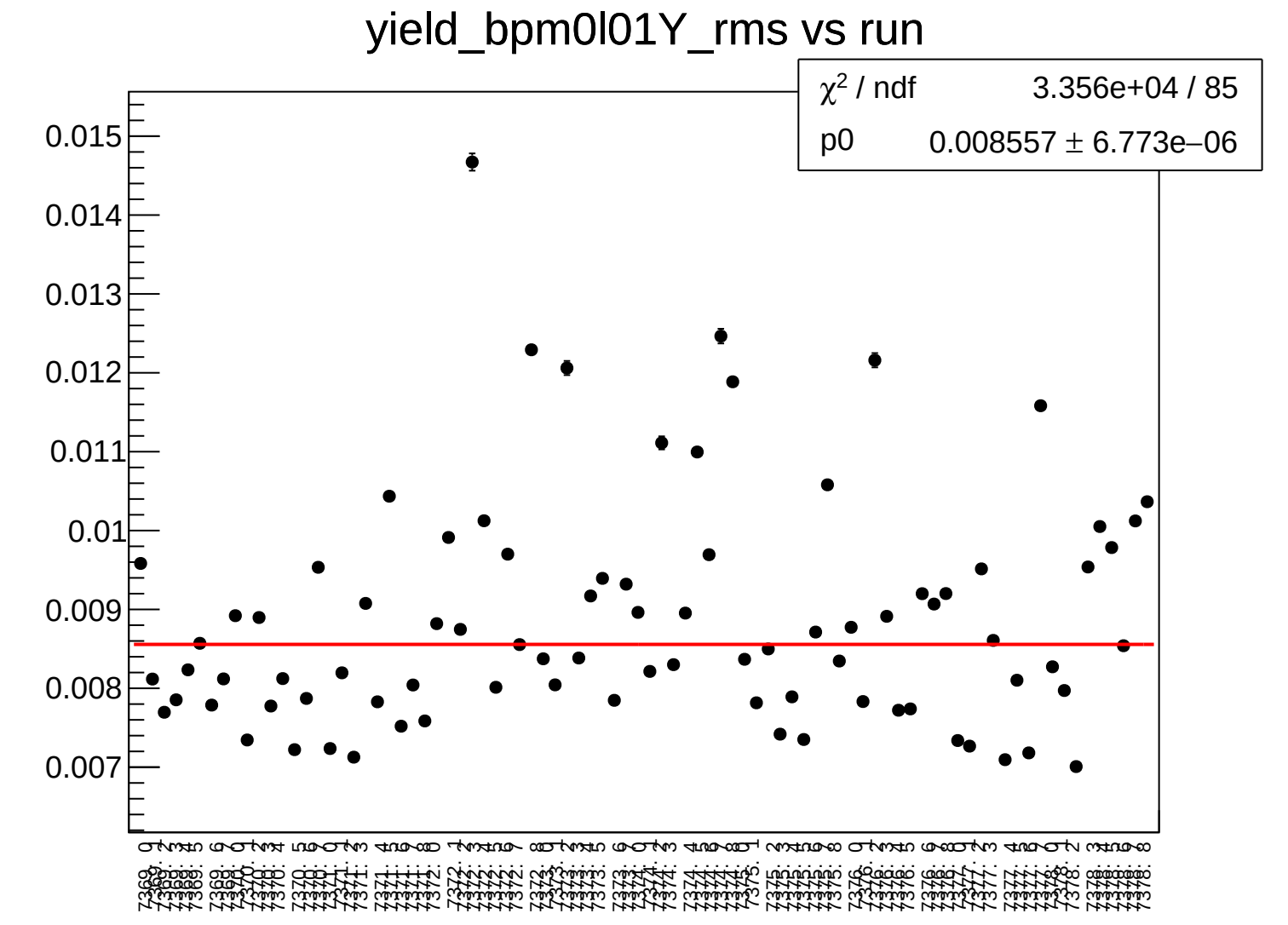

yield_bpm16Y_rms vs run
χ² / ndf 5.964e+04 / 85
p0 0.00436 ± 3.48e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

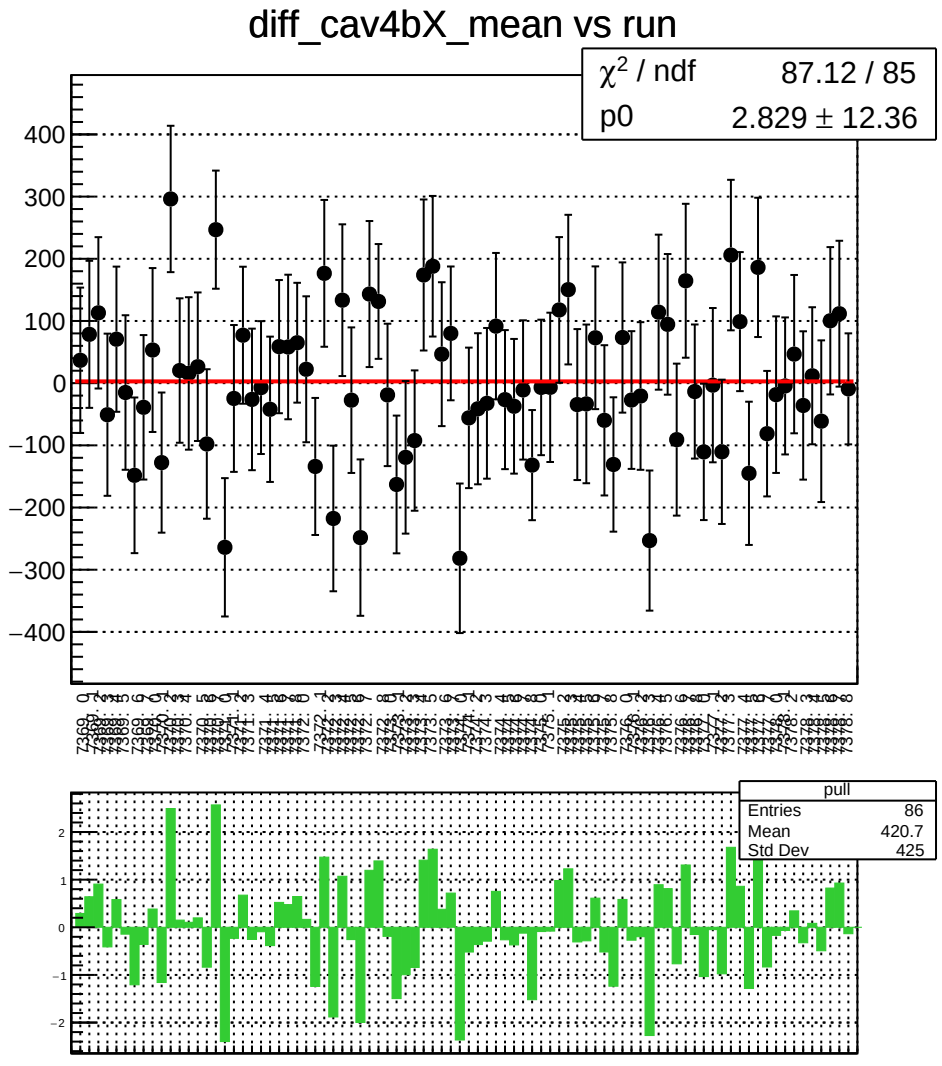

yield_bpm0l01X_mean vs run
χ² / ndf 5.579e+07 / 85
p0 −1.707 ± 7.735e−06
−1.55
−1.6
−1.65
−1.7
−1.75
pull
Entries 86
Mean −6260
Std Dev 6296
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

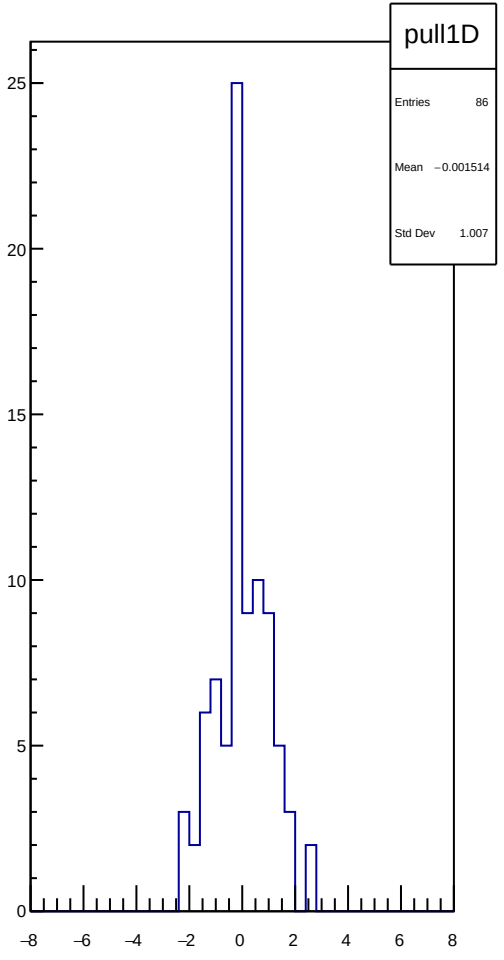

yield_bpm0l01X_rms vs run
χ^2 / ndf 2.734e+04 / 85
p0 0.006923 ± 5.469e−06
0.014
0.012
0.01
0.008
0.006

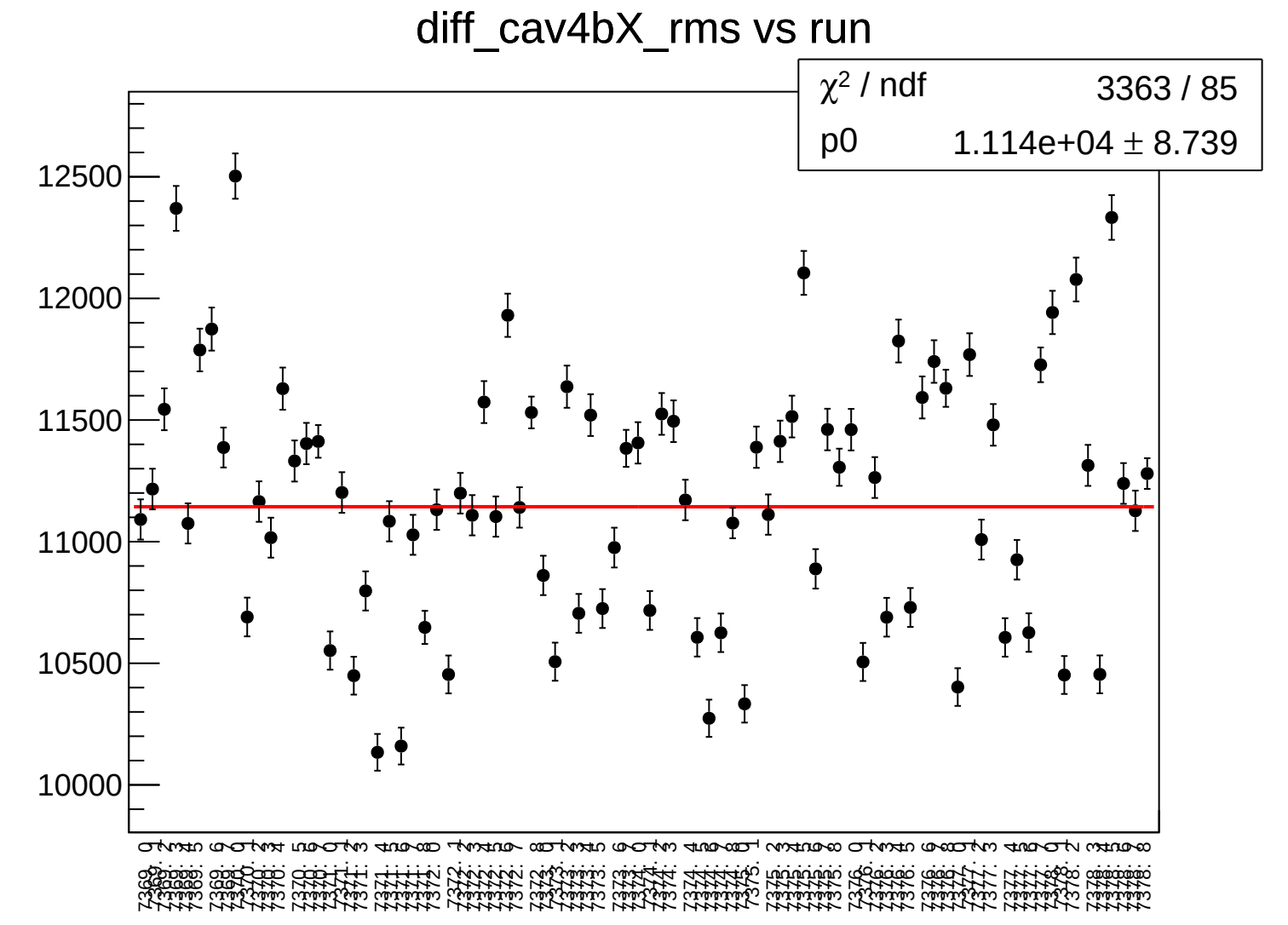

yield_bpm0l01Y_mean vs run
χ² / ndf 4.091e+06 / 85
p0 −5.871 ± 9.579e−06
−5.83
−5.84
−5.85
−5.86
−5.87
−5.88
−5.89
−5.9
pull
Entries 86
Mean 2750
Std Dev 2708
400
300
200
100
0
−100
−200
−300
−400

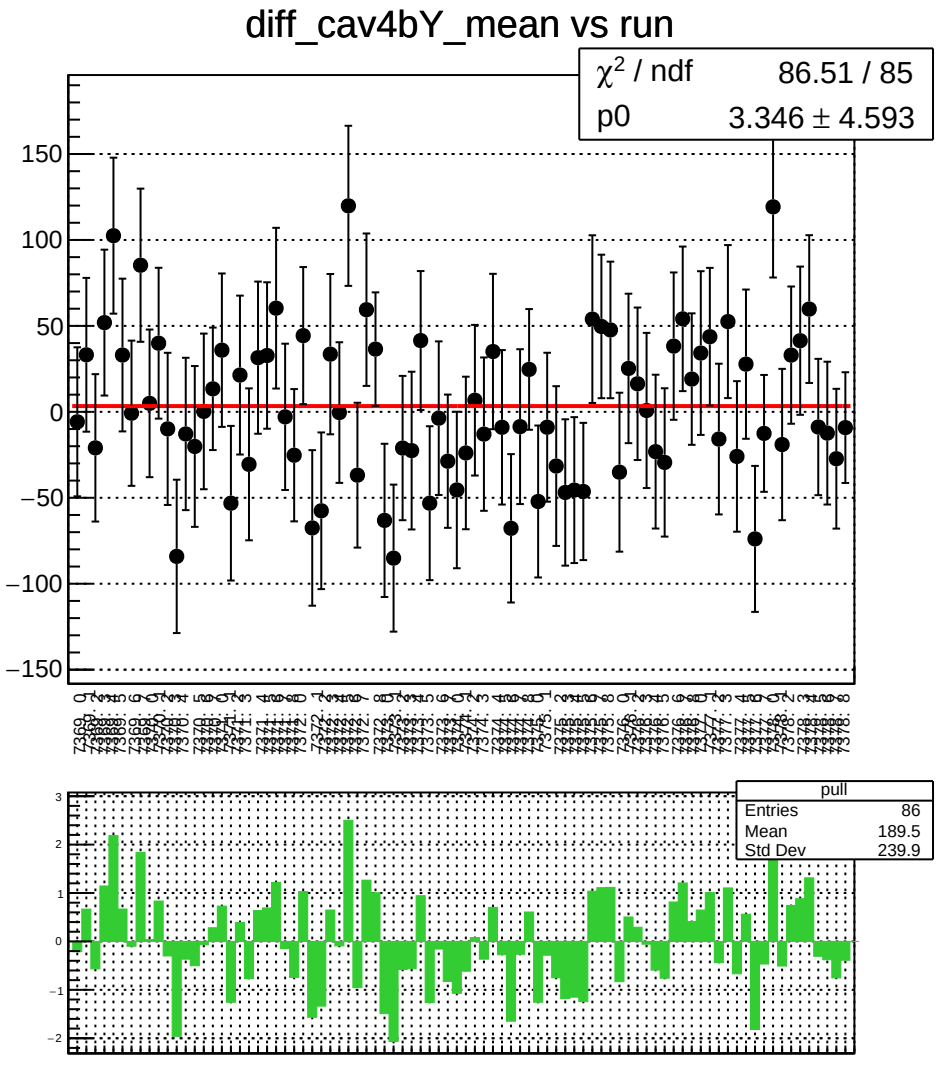

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

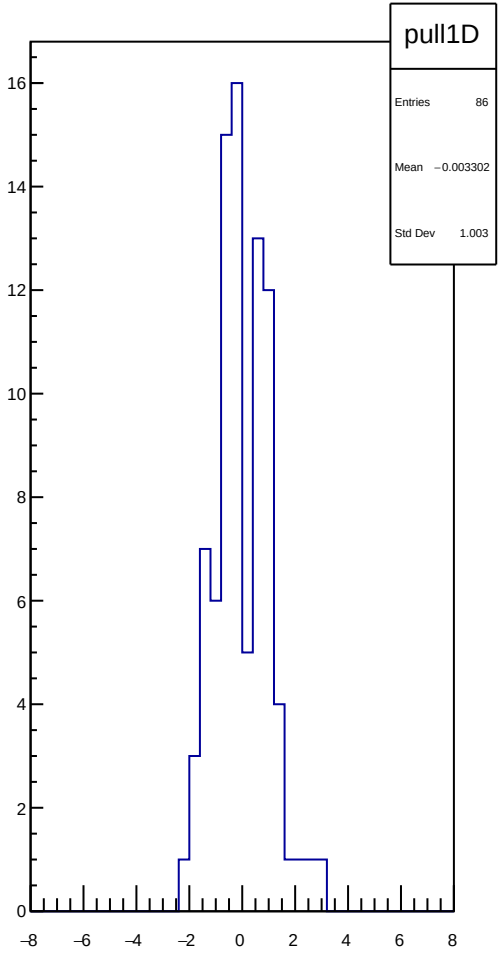

yield_bpm0l01Y_rms vs run
χ² / ndf 3.356e+04 / 85
p0 0.008557 ± 6.773e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

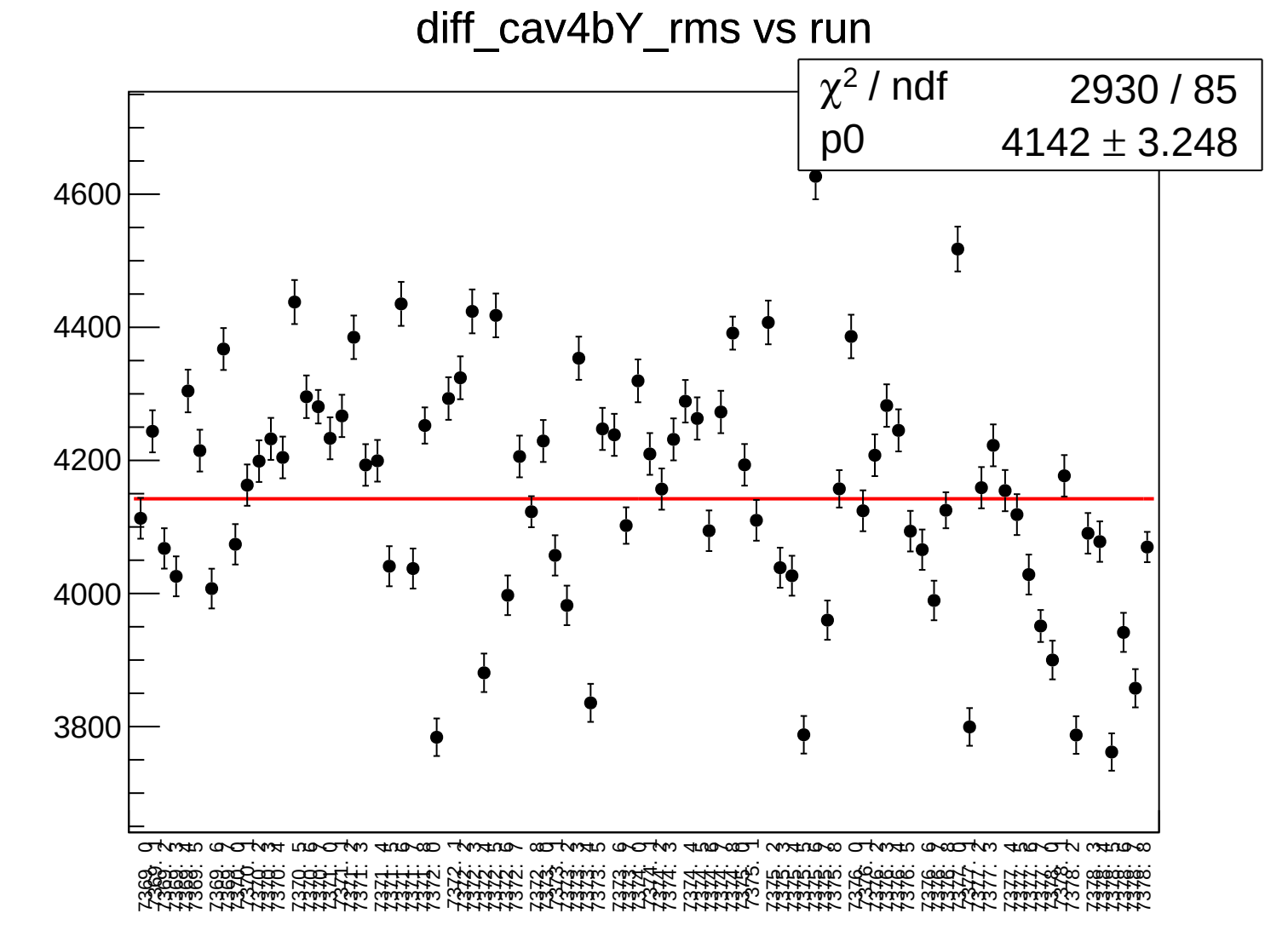

diff_cav4bX_mean vs run
χ^2 / ndf 87.12 / 85
p0 2.829 ± 12.36
pull
Entries 86
Mean 420.7
Std Dev 425

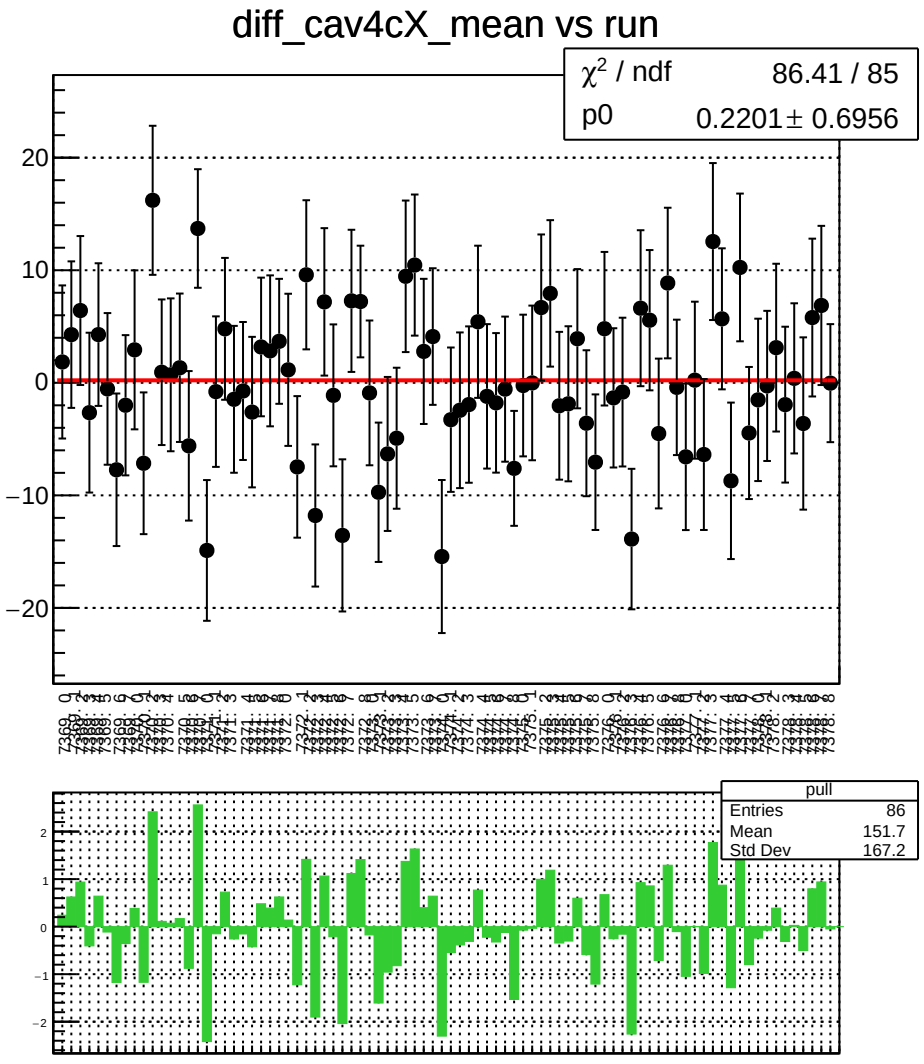

pull1D
Entries 86
Mean −0.001514
Std Dev 1.007

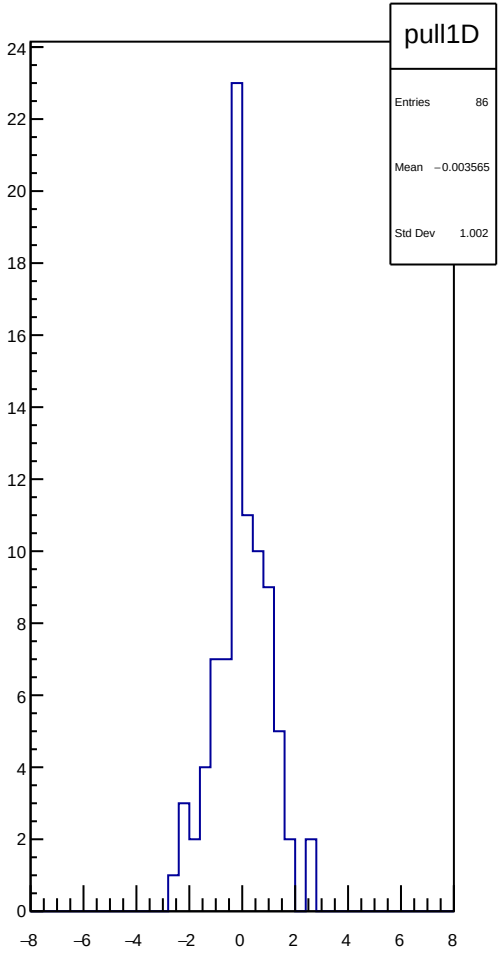

diff_cav4bX_rms vs run
χ² / ndf 3363 / 85
p0 1.114e+04 ± 8.739
12500
12000
11500
11000
10500
10000

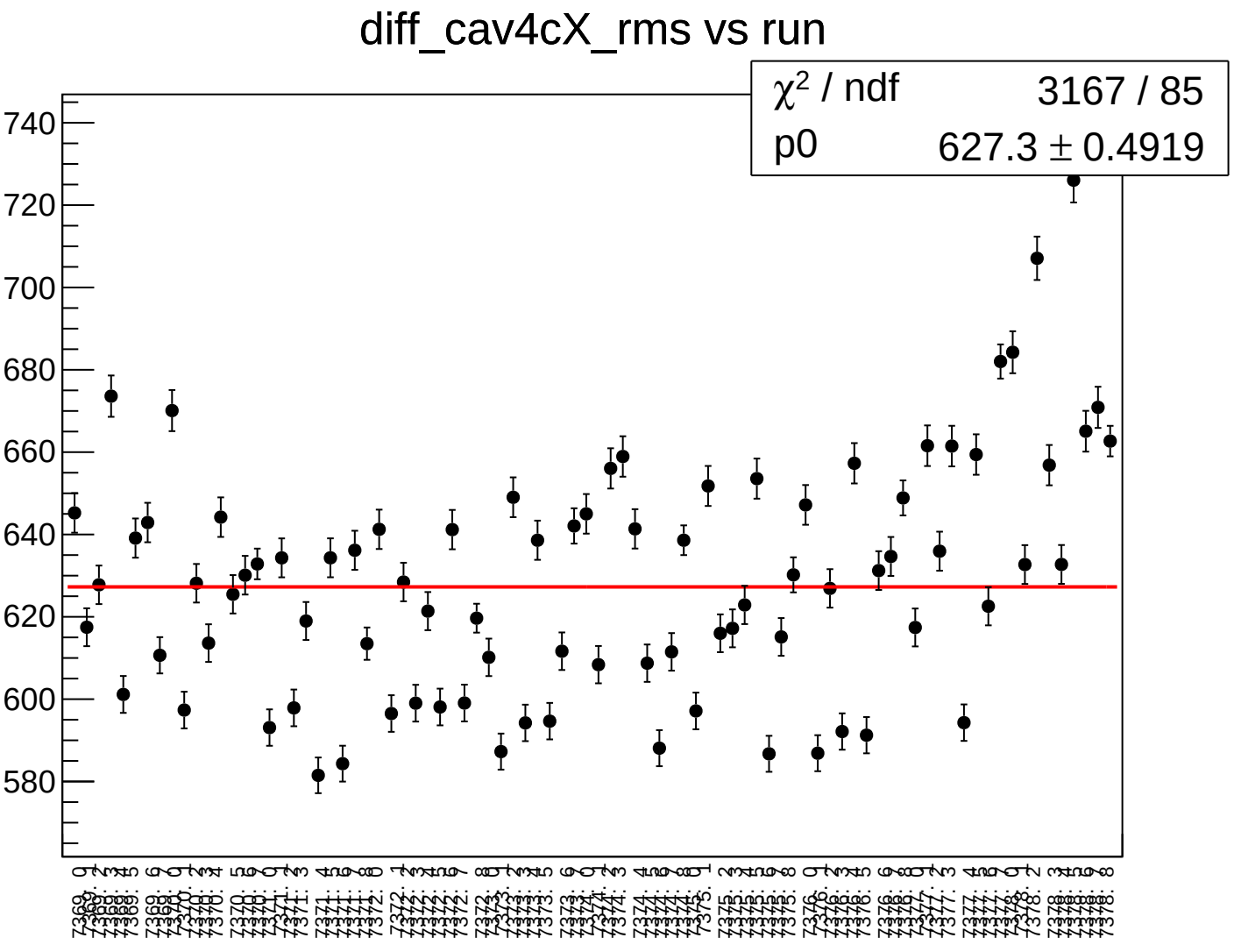

diff_cav4bY_mean vs run
χ² / ndf 86.51 / 85
p0 3.346 ± 4.593
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 189.5
Std Dev 239.9
3
2
1
0
−1
−2

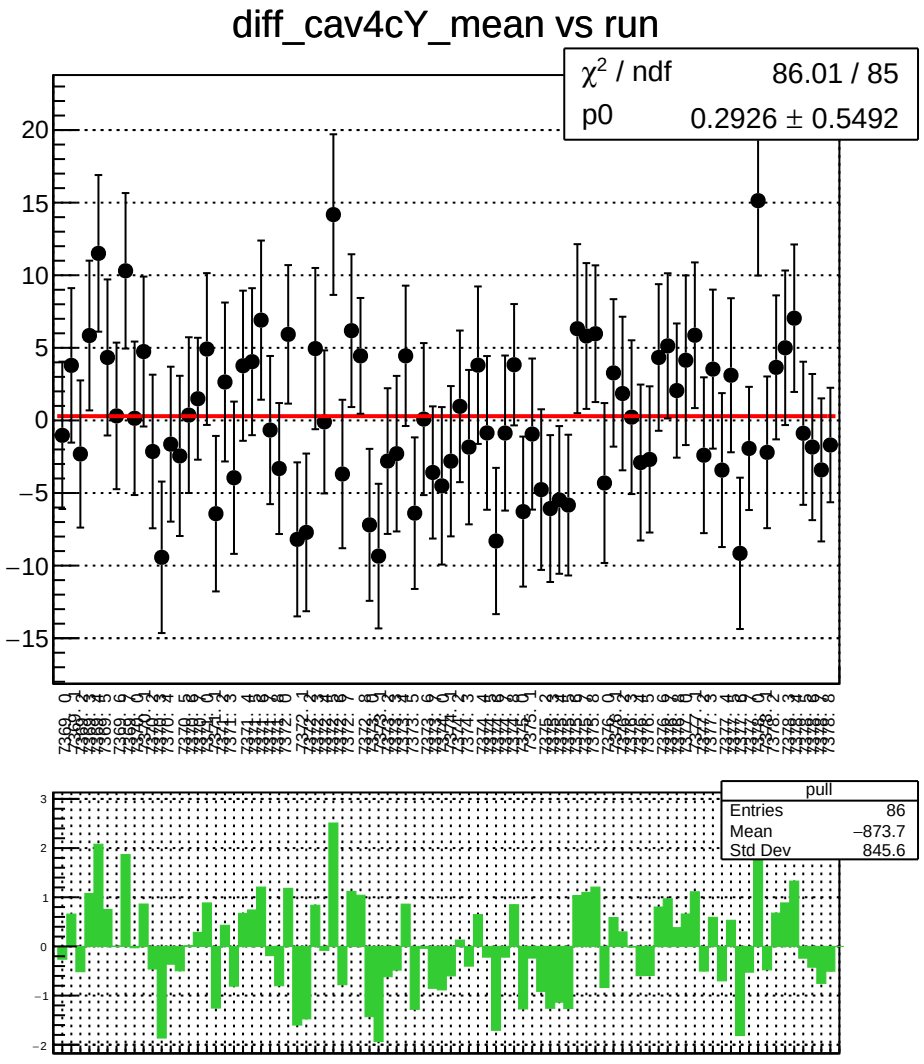

pull1D
Entries 86
Mean −0.003302
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

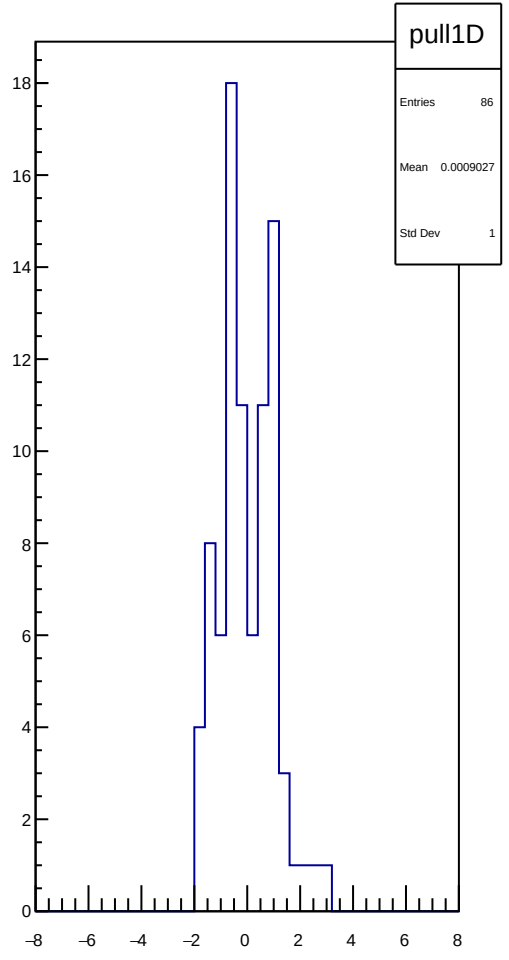

diff_cav4bY_rms vs run
χ² / ndf 2930 / 85
p0 4142 ± 3.248
4600
4400
4200
4000
3800

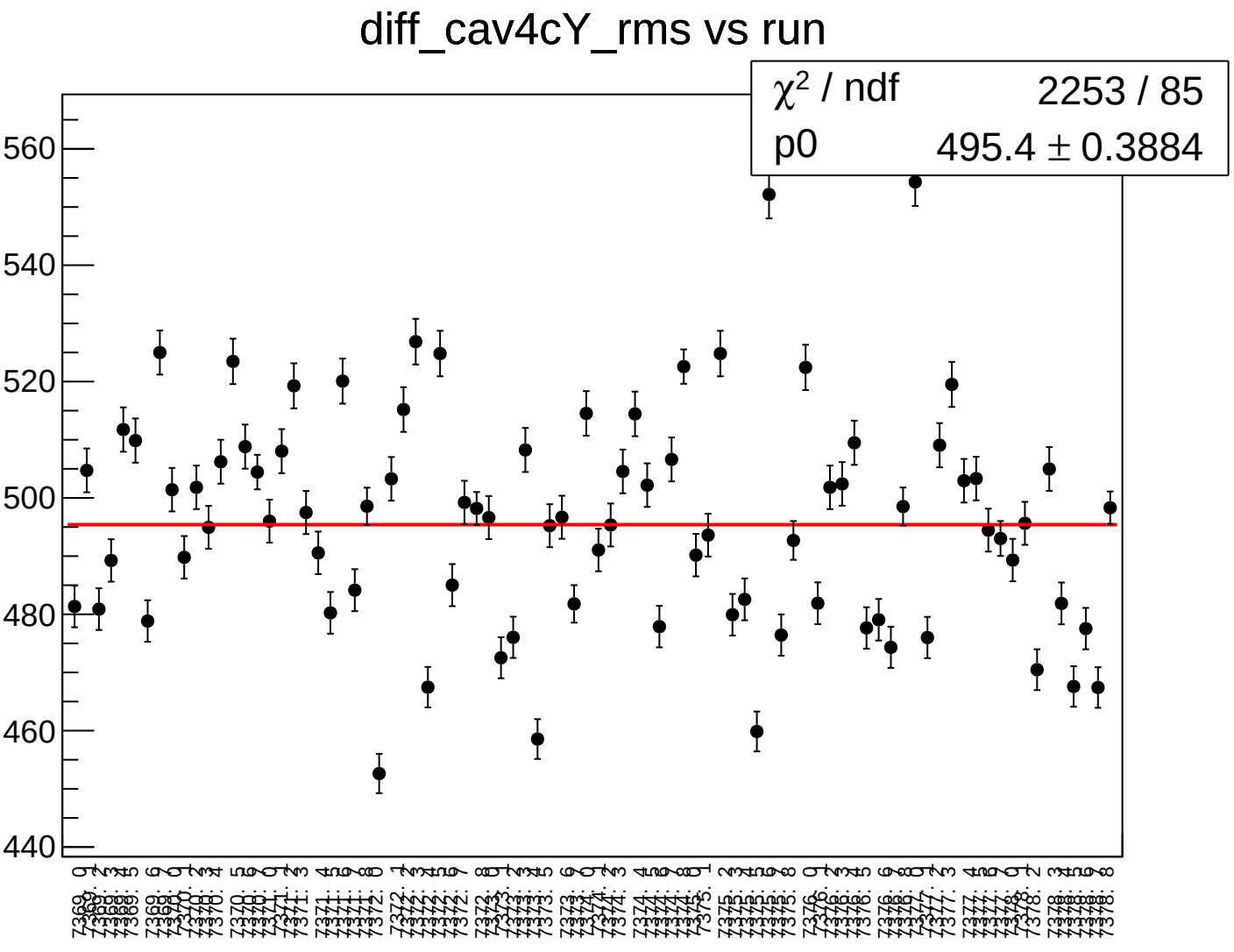

diff_cav4cX_mean vs run
χ² / ndf 86.41 / 85
p0 0.2201 ± 0.6956
pull
Entries 86
Mean 151.7
Std Dev 167.2

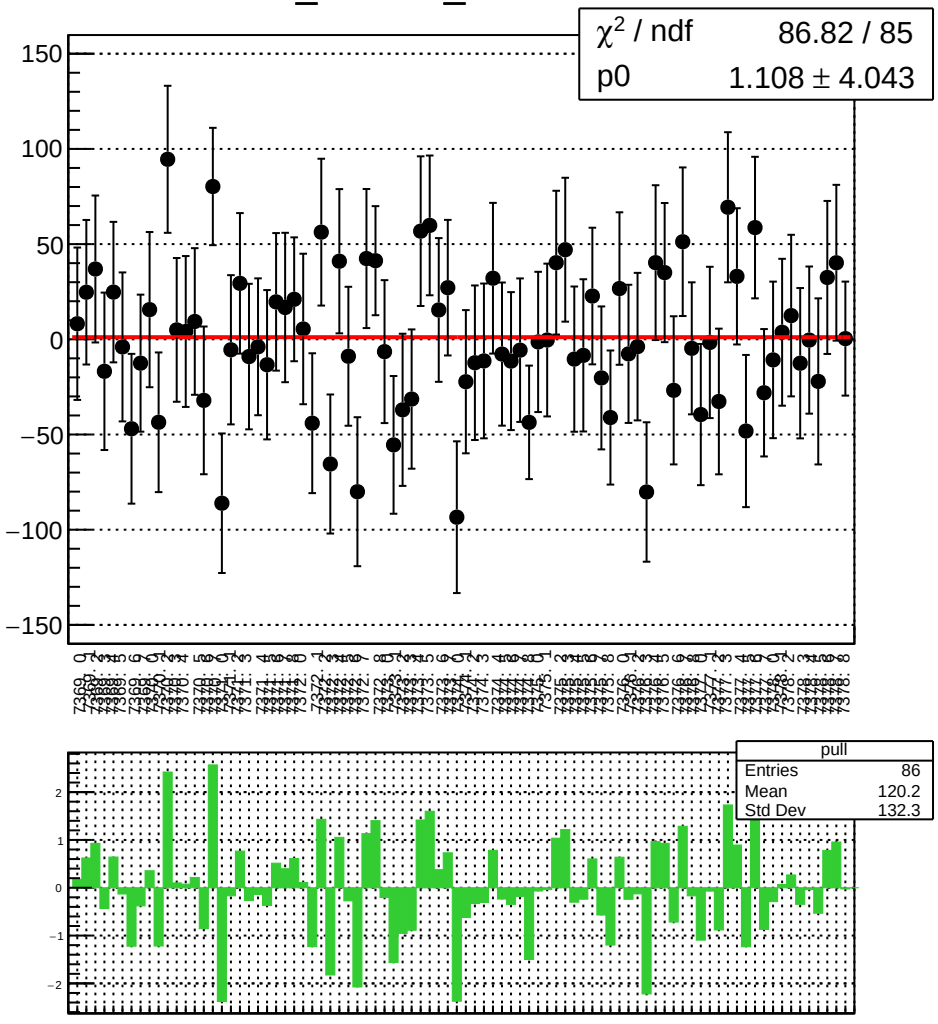

pull1D
Entries 86
Mean −0.003565
Std Dev 1.002

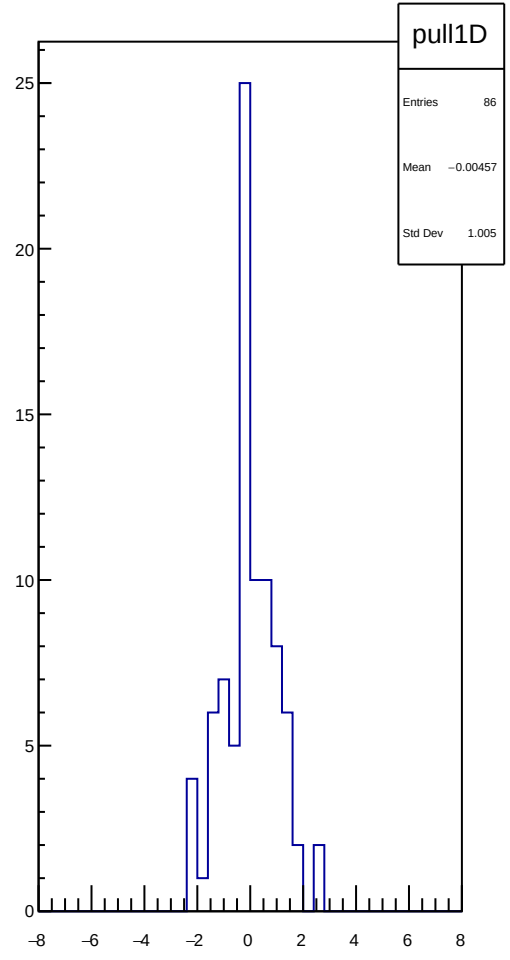

diff_cav4cX_rms vs run
χ² / ndf 3167 / 85
p0 627.3 ± 0.4919
740
720
700
680
660
640
620
600
580

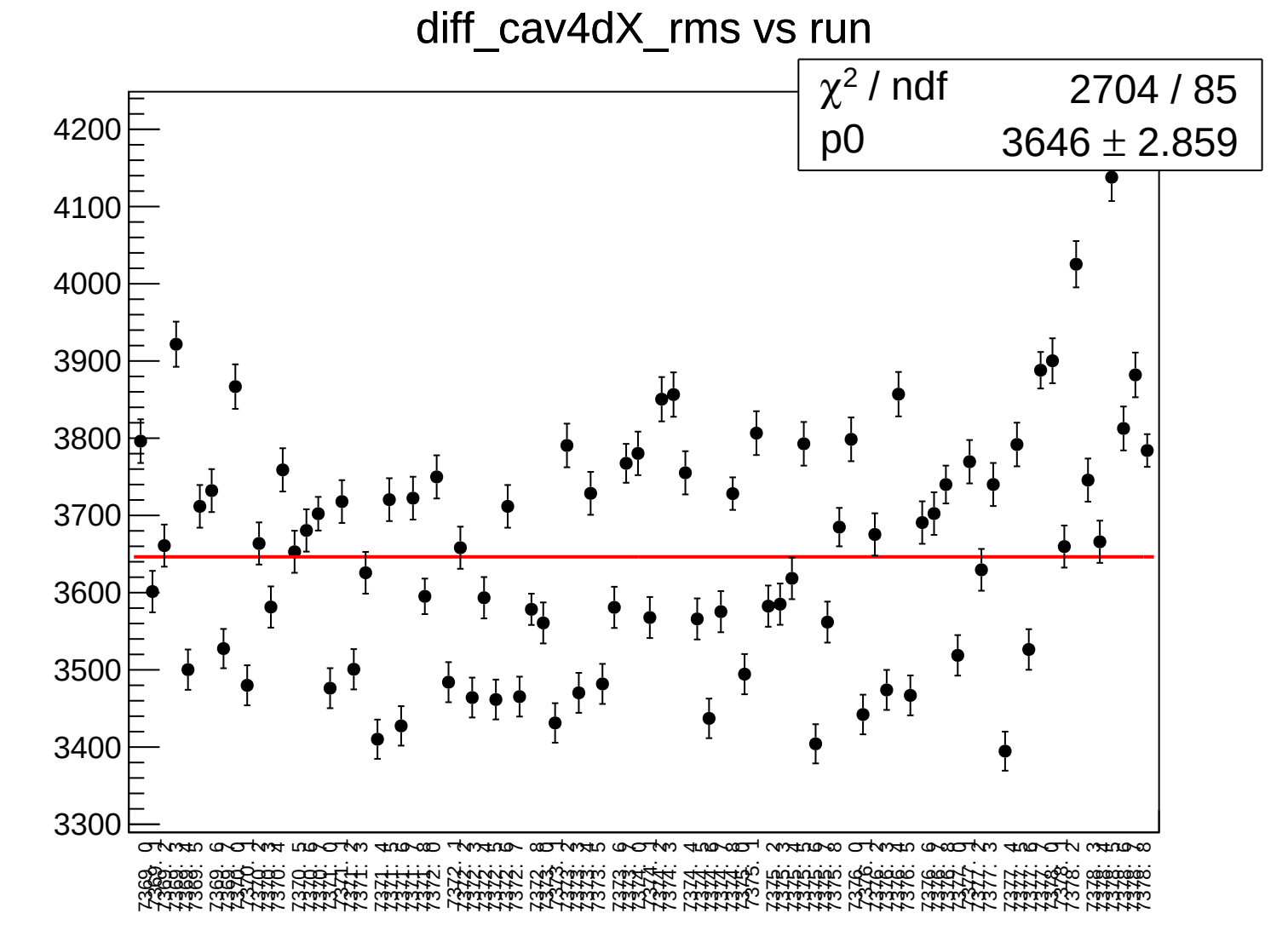

diff_cav4cY_mean vs run
χ^2 / ndf 86.01 / 85
p0 0.2926 ± 0.5492
pull
Entries 86
Mean −873.7
Std Dev 845.6

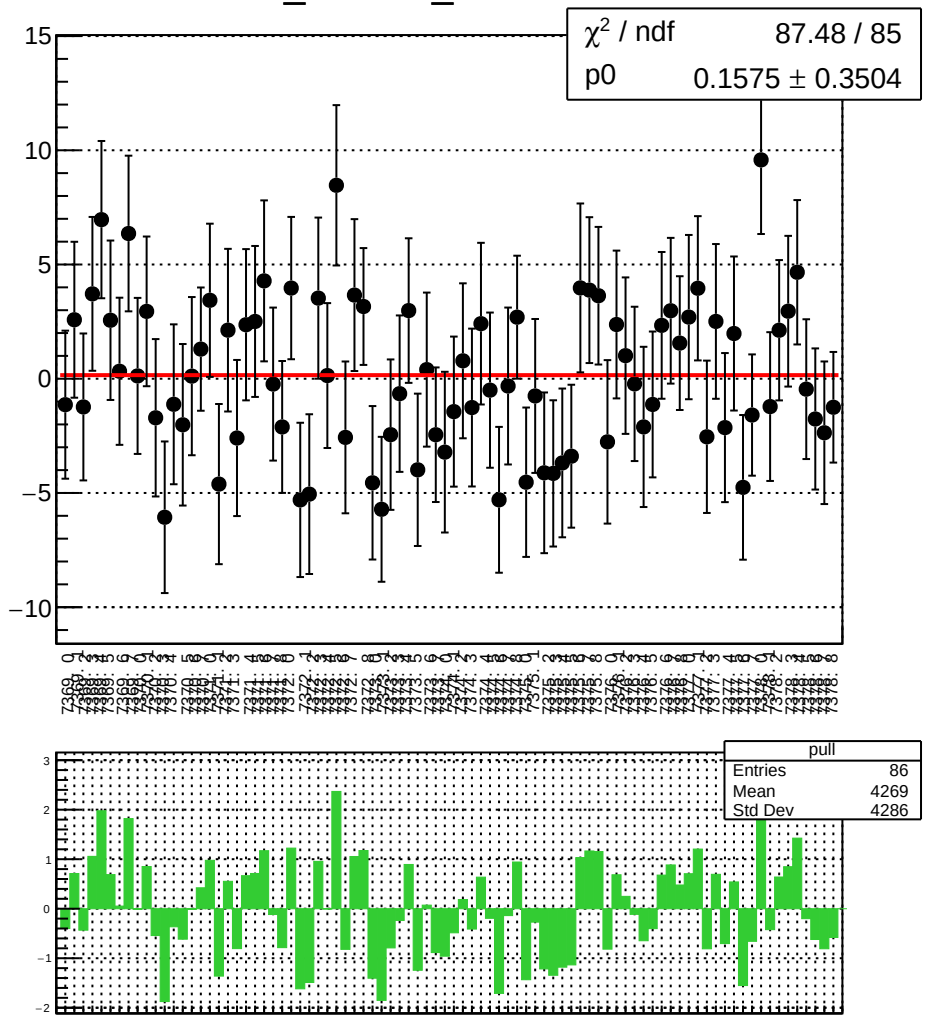

pull1D
Entries 86
Mean 0.0009027
Std Dev 1

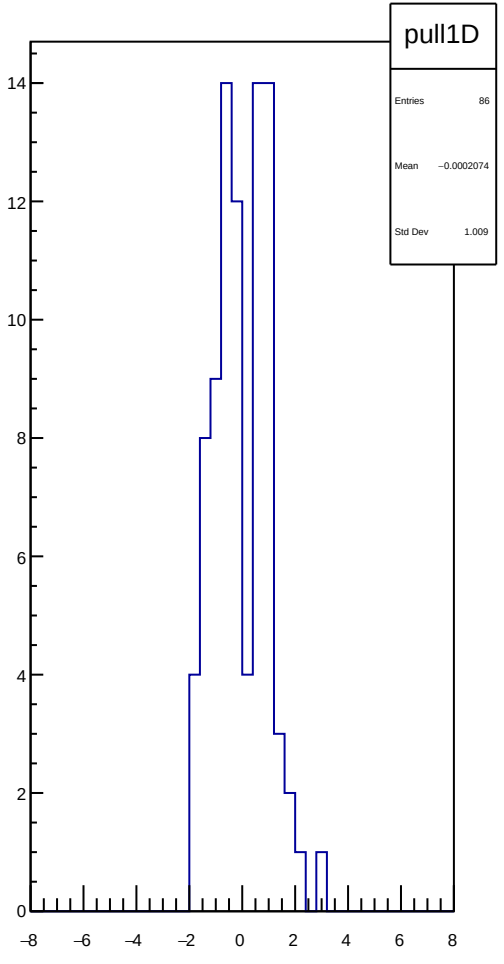

diff_cav4cY_rms vs run
χ² / ndf 2253 / 85
p0 495.4 ± 0.3884
560
540
520
500
480
460
440

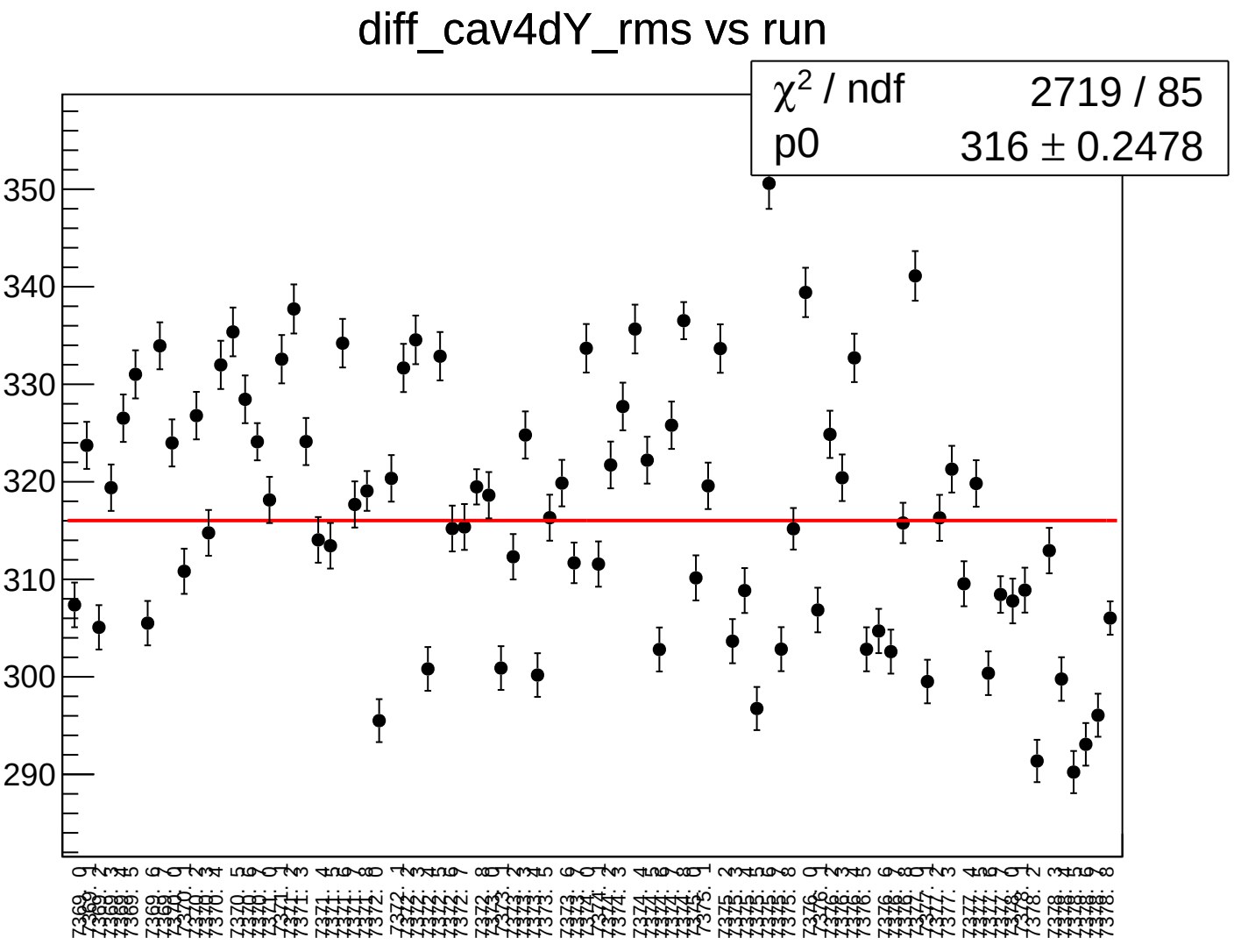

diff_cav4dX_mean vs run
χ² / ndf 86.82 / 85
p0 1.108 ± 4.043
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean 120.2
Std Dev 132.3
2
1
0
−1
−2

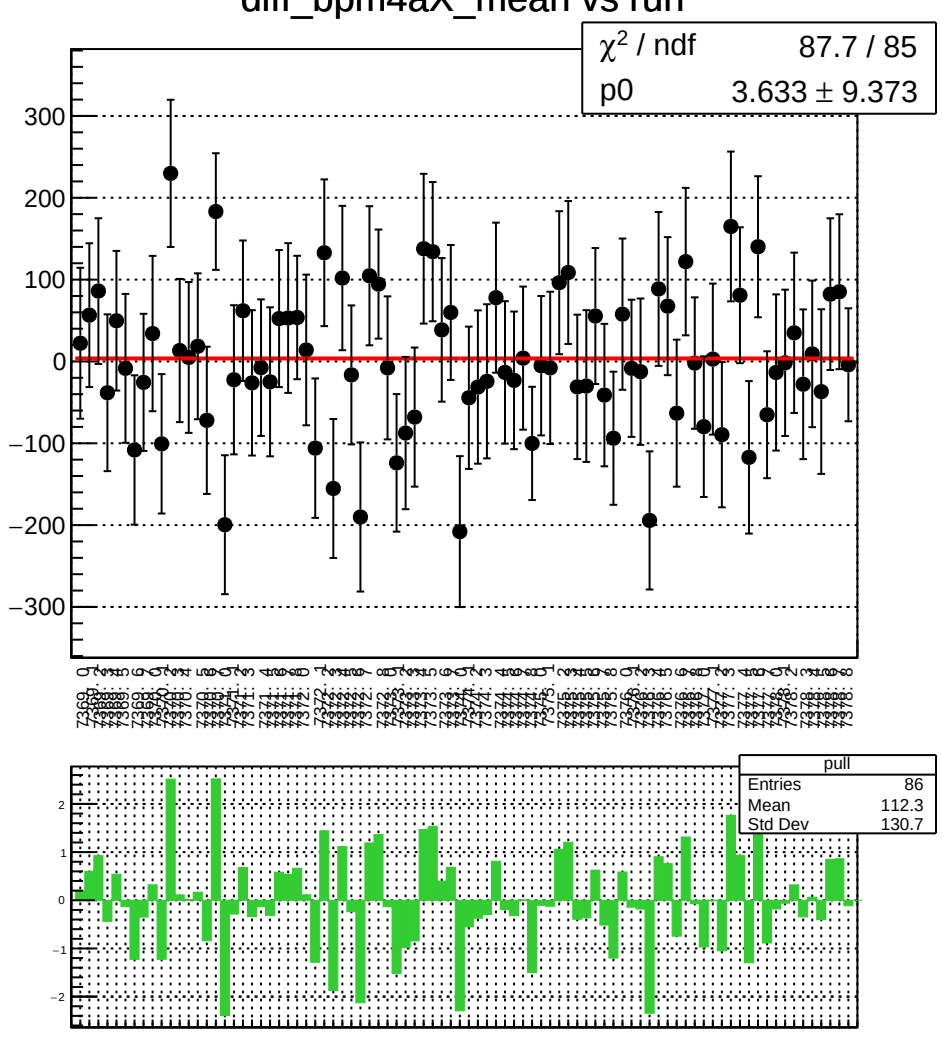

pull1D
Entries 86
Mean −0.00457
Std Dev 1.005
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

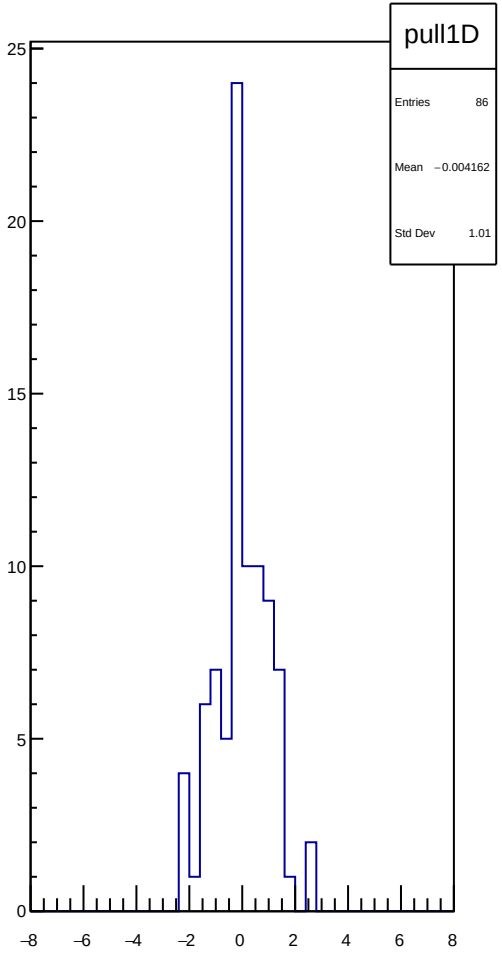

diff_cav4dX_rms vs run
χ² / ndf 2704 / 85
p0 3646 ± 2.859
4200
4100
4000
3900
3800
3700
3600
3500
3400
3300

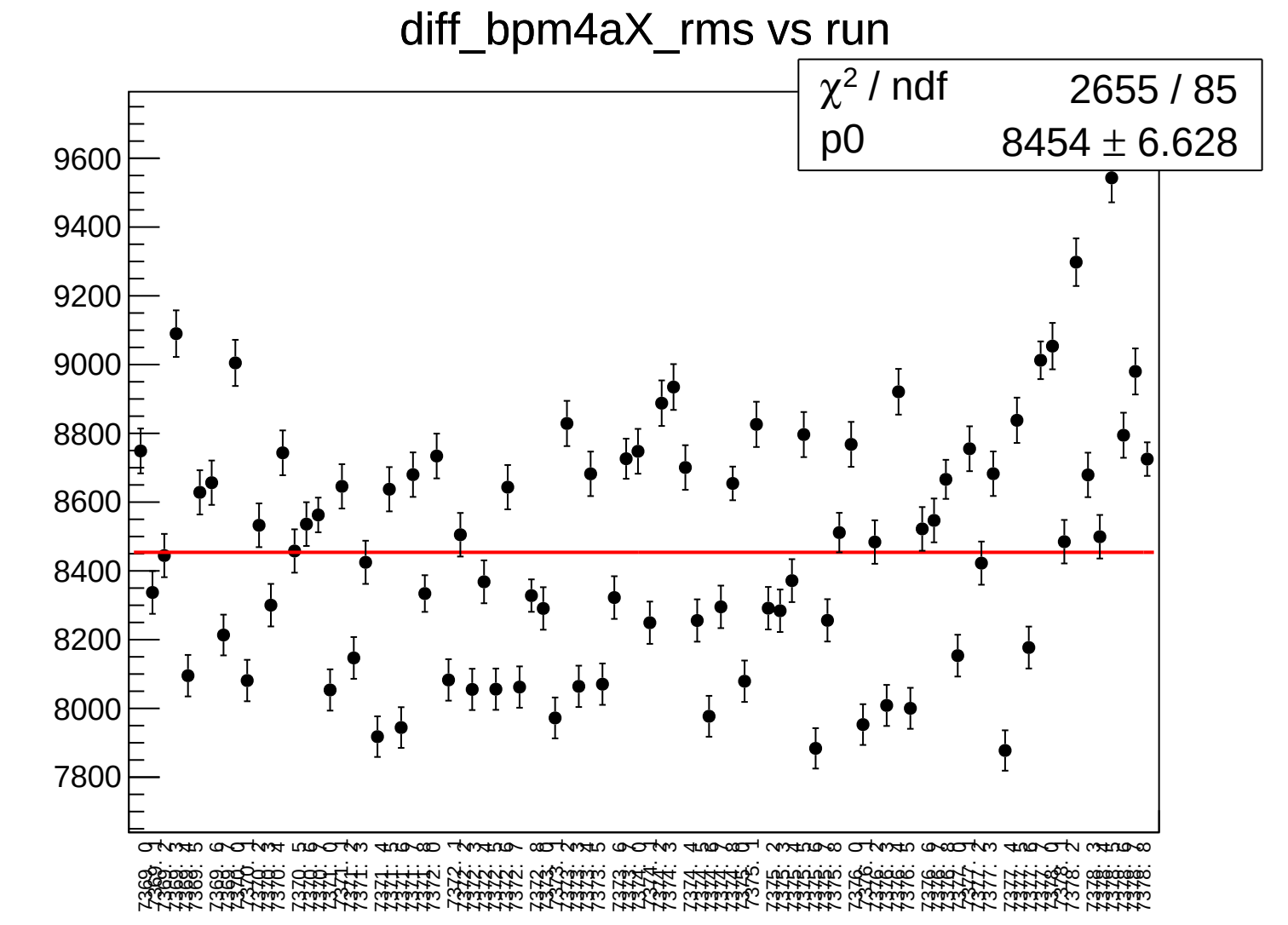

diff_cav4dY_mean vs run
χ² / ndf 87.48 / 85
p0 0.1575 ± 0.3504
pull
Entries 86
Mean 4269
Std Dev 4286

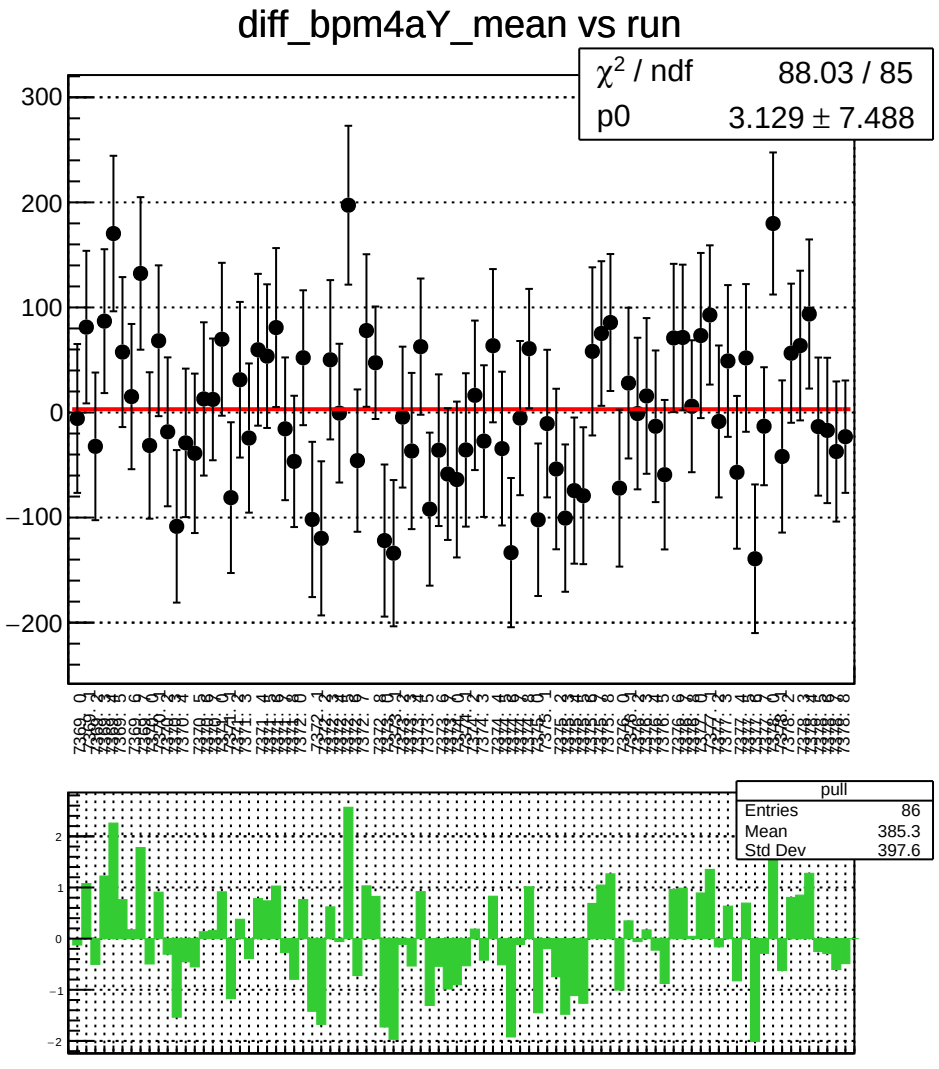

pull1D
Entries 86
Mean −0.0002074
Std Dev 1.009

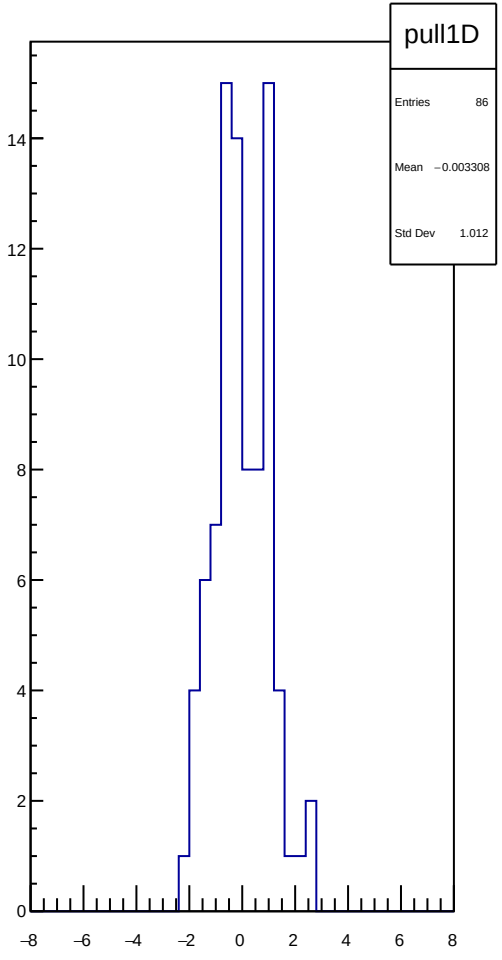

diff_cav4dY_rms vs run
χ² / ndf 2719 / 85
p0 316 ± 0.2478
350
340
330
320
310
300
290

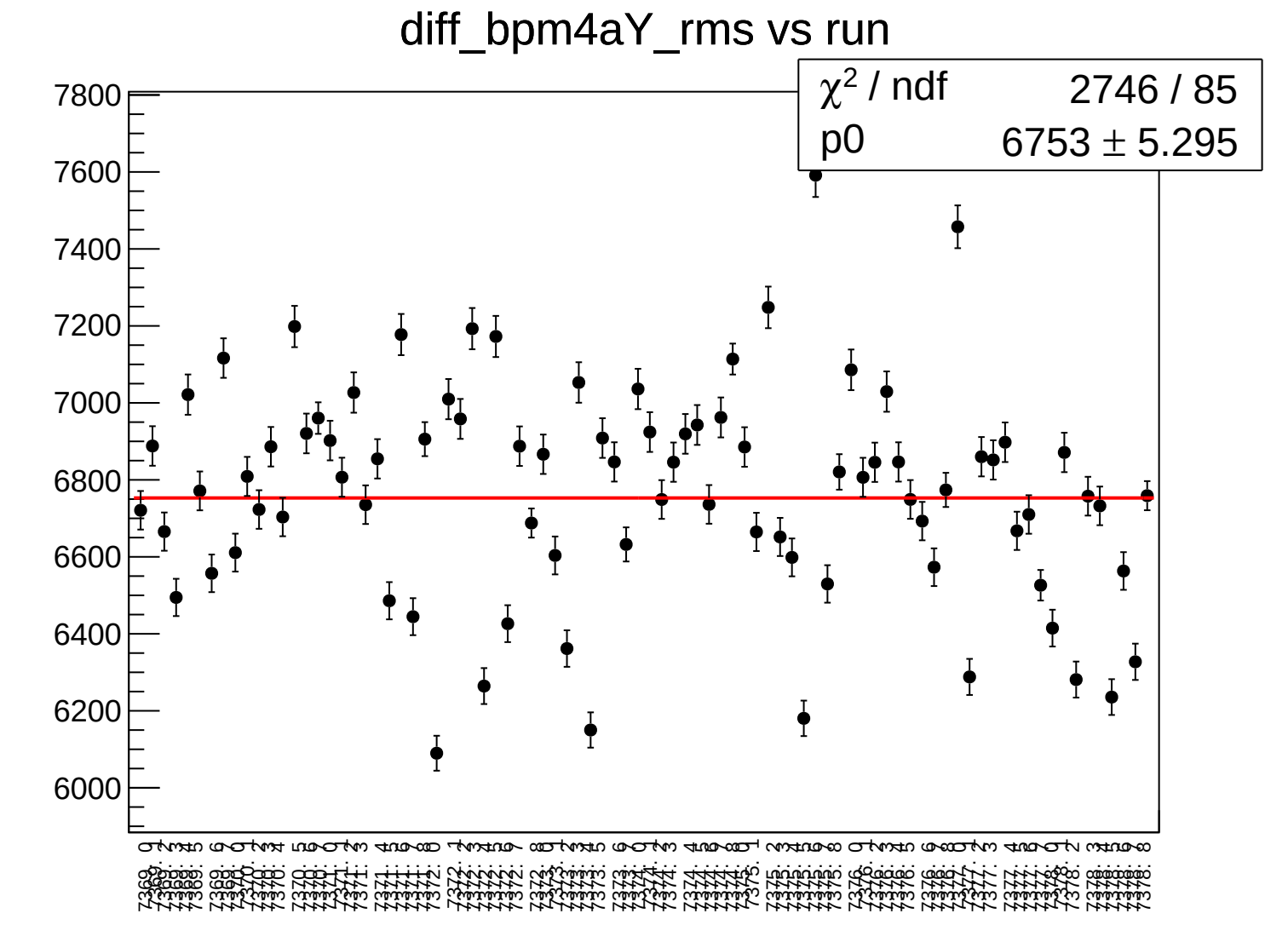

diff_bpm4aX_mean vs run
χ² / ndf 87.7 / 85
p0 3.633 ± 9.373
pull
Entries 86
Mean 112.3
Std Dev 130.7

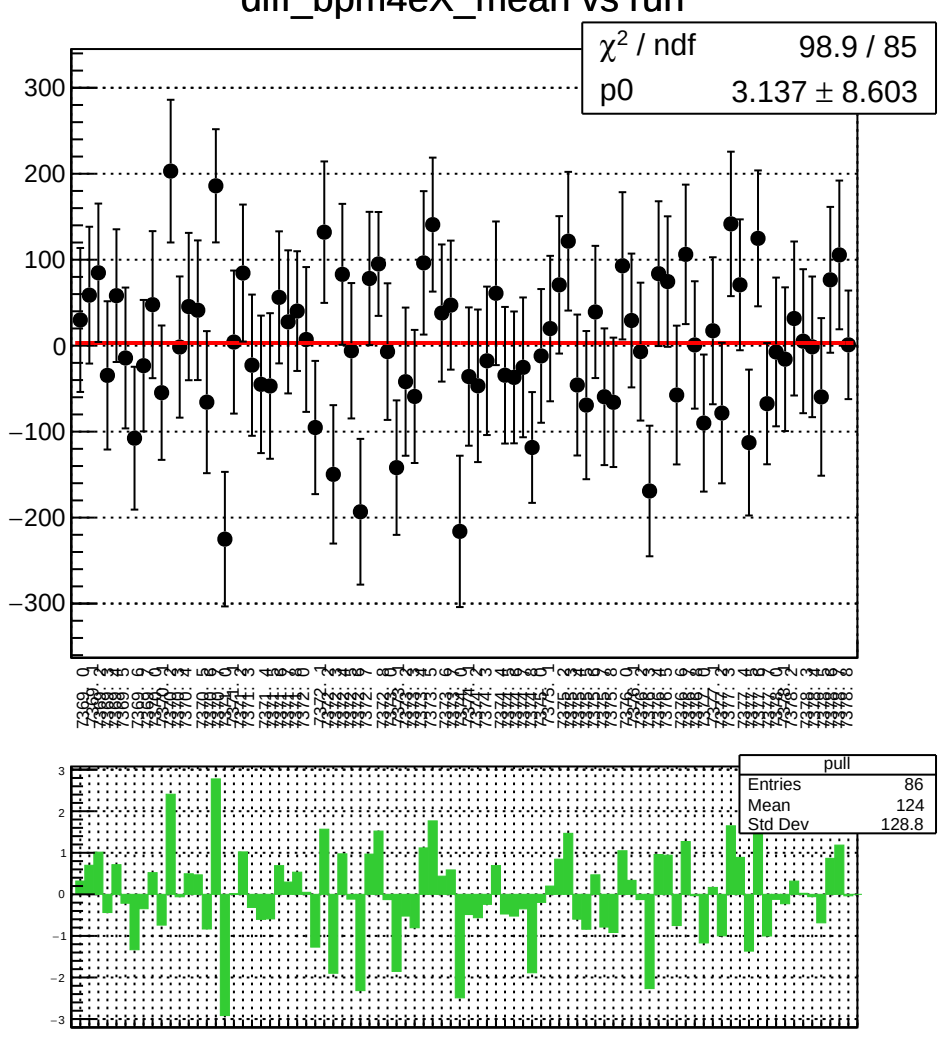

pull1D
Entries 86
Mean −0.004162
Std Dev 1.01

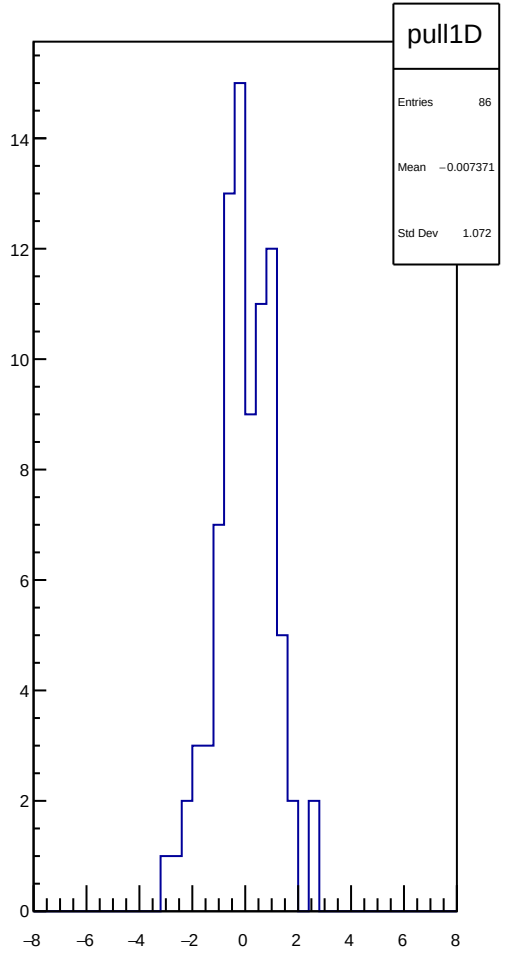

diff_bpm4aX_rms vs run
χ^2 / ndf 2655 / 85
p0 8454 ± 6.628
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

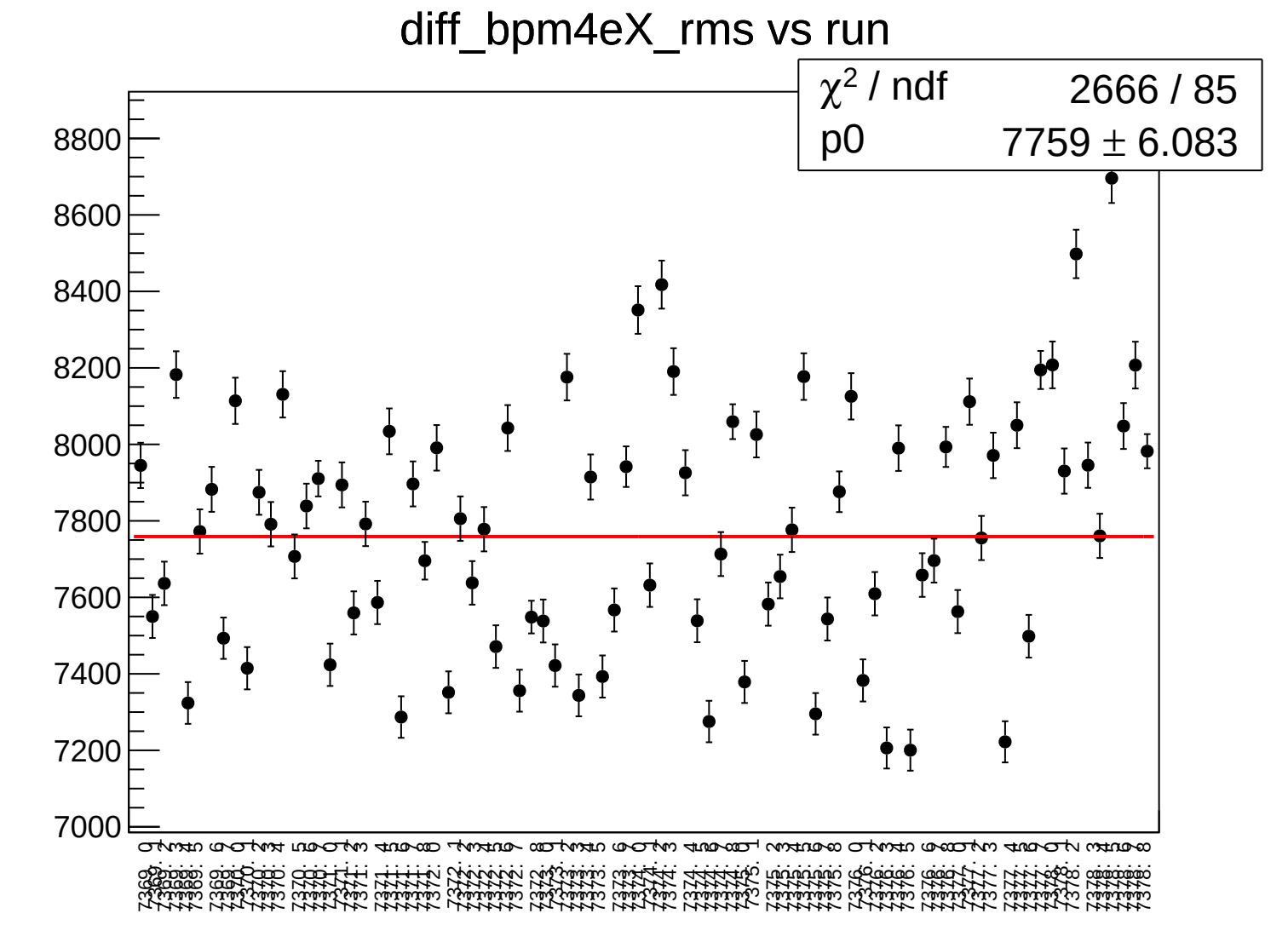

diff_bpm4aY_mean vs run
χ² / ndf 88.03 / 85
p0 3.129 ± 7.488
pull
Entries 86
Mean 385.3
Std Dev 397.6

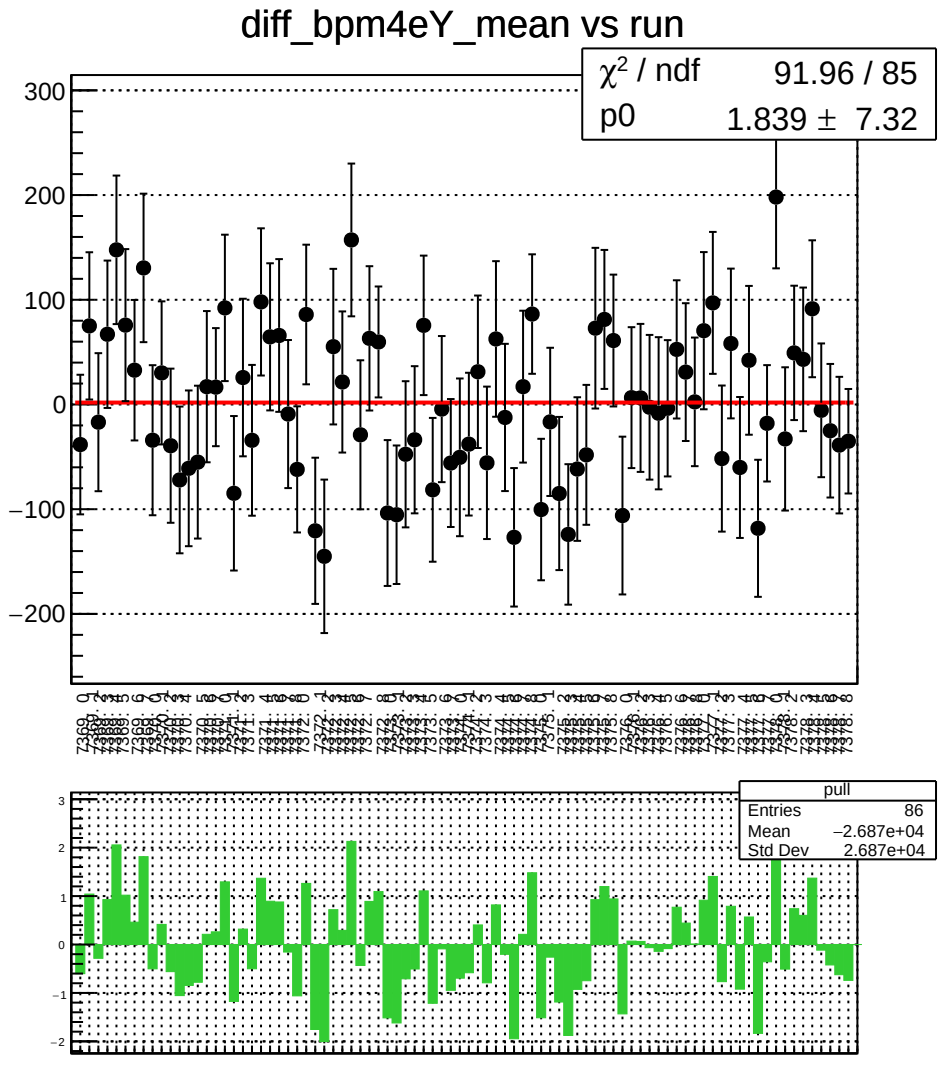

pull1D
Entries 86
Mean −0.003308
Std Dev 1.012

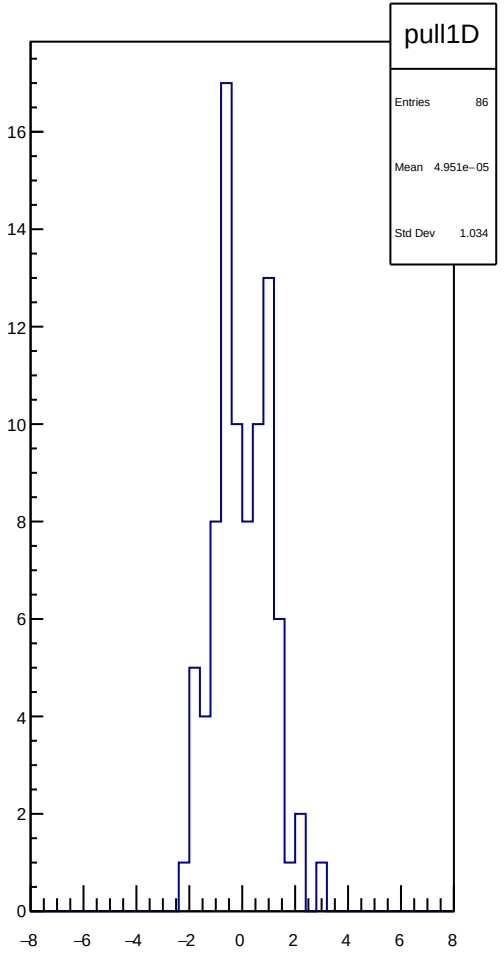

diff_bpm4aY_rms vs run
χ² / ndf 2746 / 85
p0 6753 ± 5.295
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

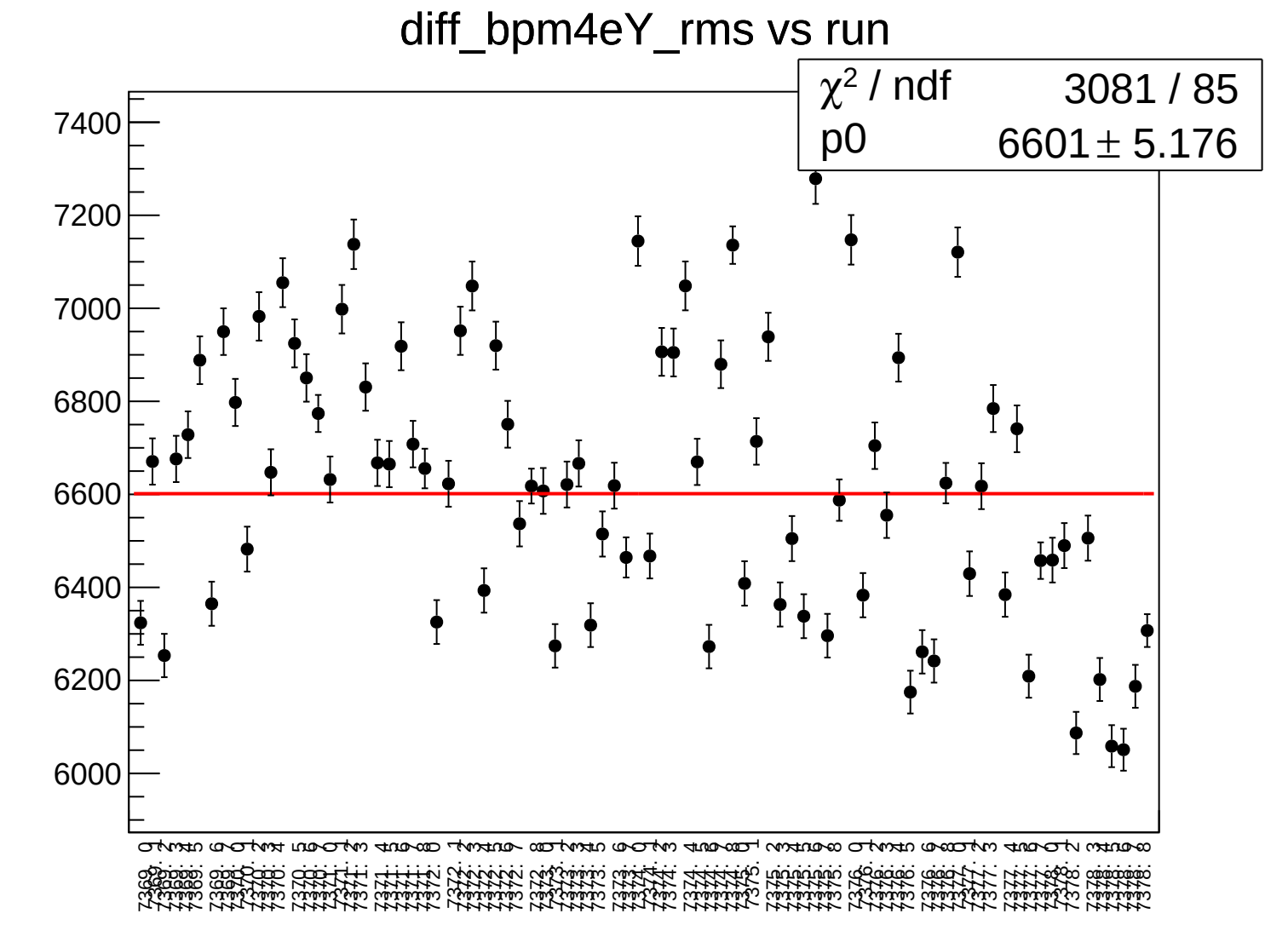

diff_bpm4eX_mean vs run
χ^2 / ndf 98.9 / 85
p0 3.137 ± 8.603
pull
Entries 86
Mean 124
Std Dev 128.8

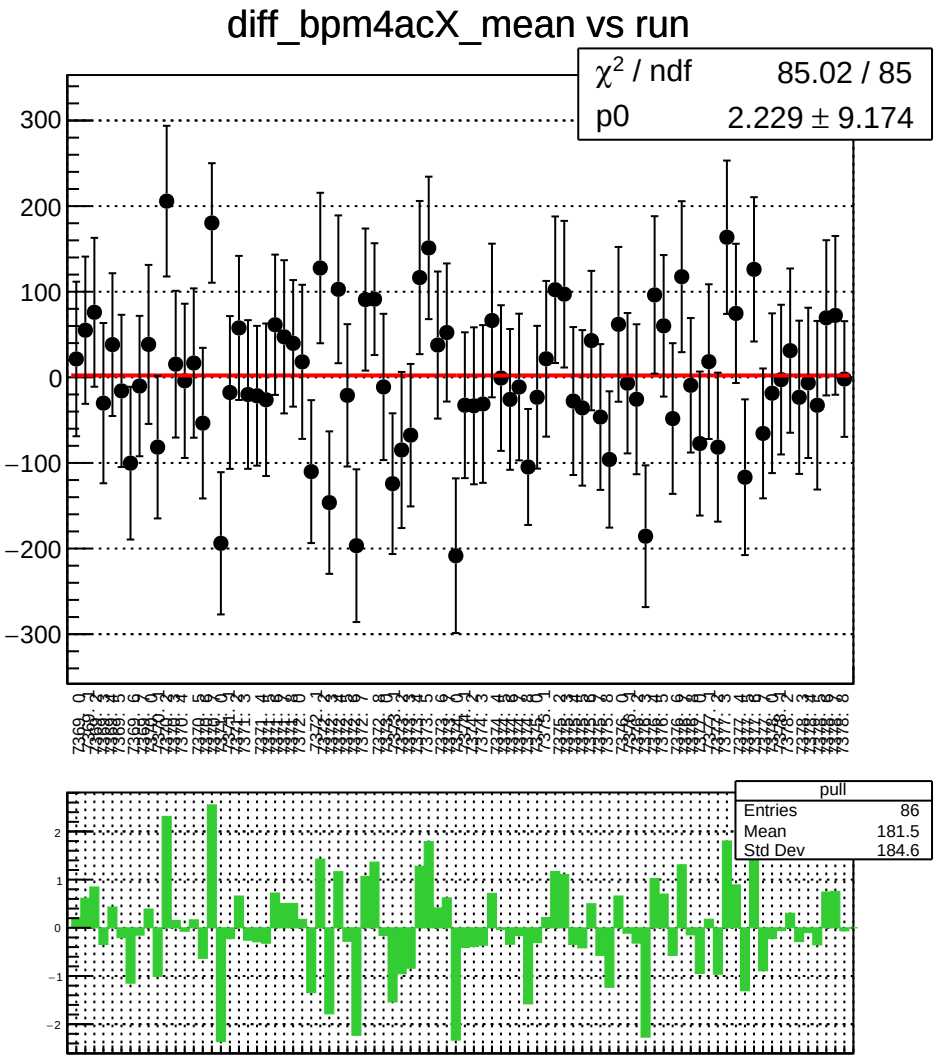

pull1D
Entries 86
Mean −0.007371
Std Dev 1.072

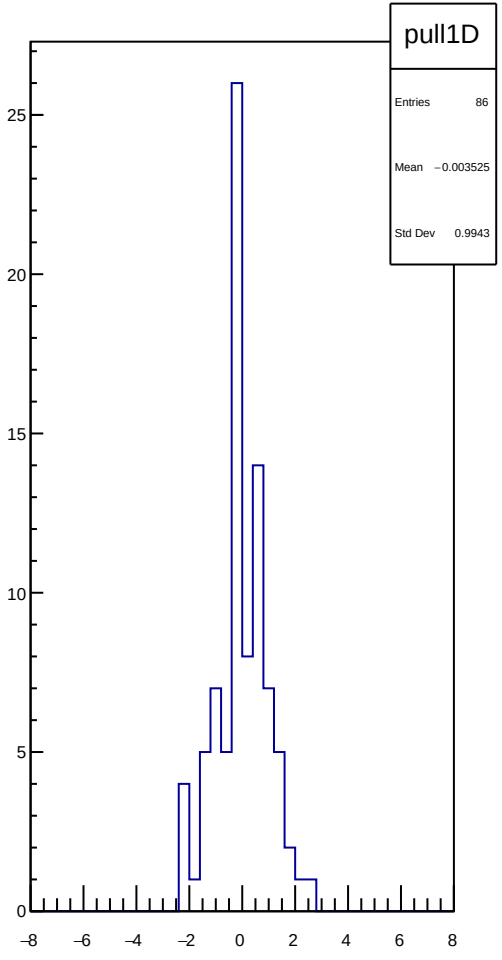

diff_bpm4eX_rms vs run
χ² / ndf 2666 / 85
p0 7759 ± 6.083
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000

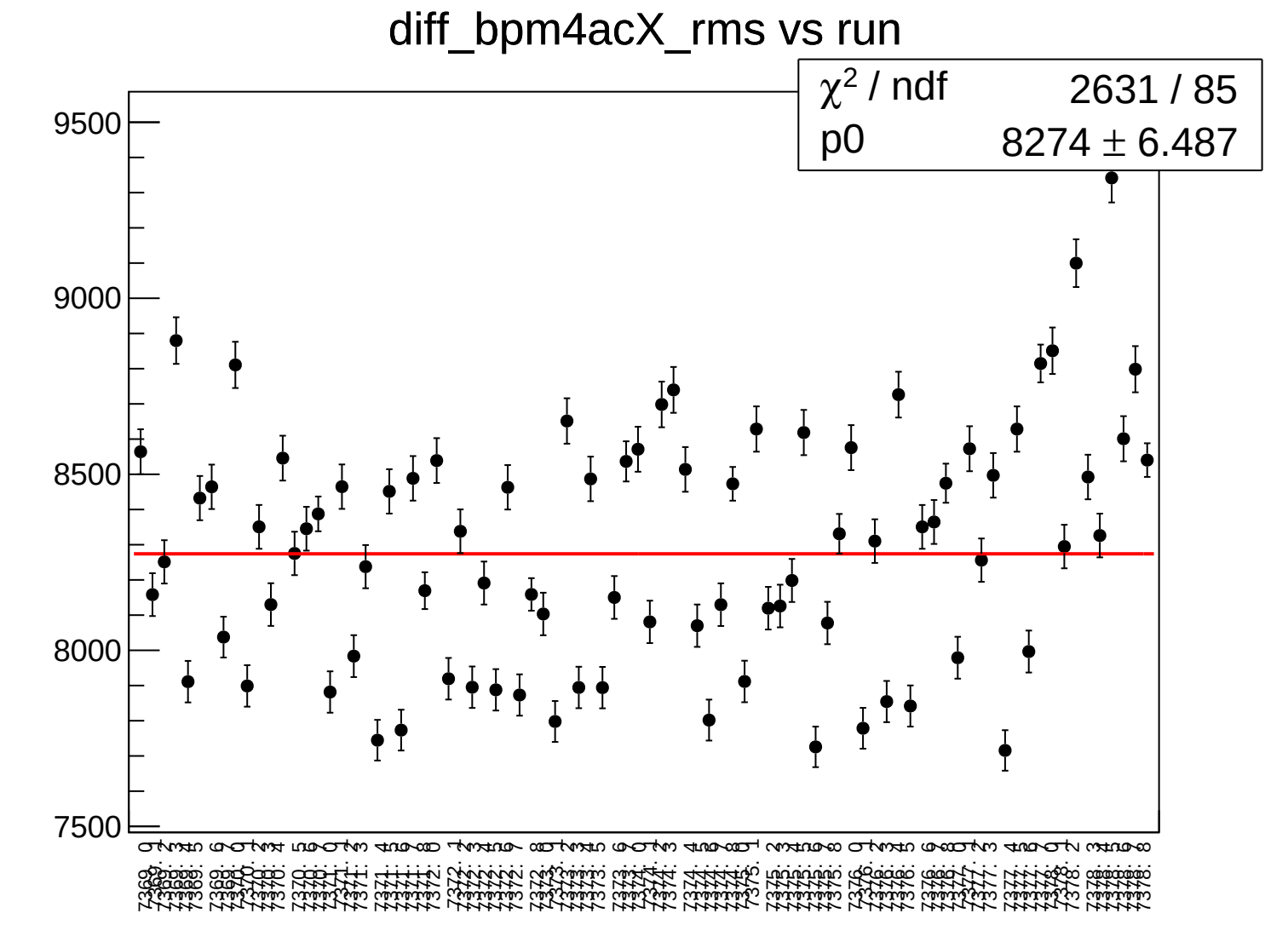

diff_bpm4eY_mean vs run
χ² / ndf 91.96 / 85
p0 1.839 ± 7.32
pull
Entries 86
Mean −2.687e+04
Std Dev 2.687e+04

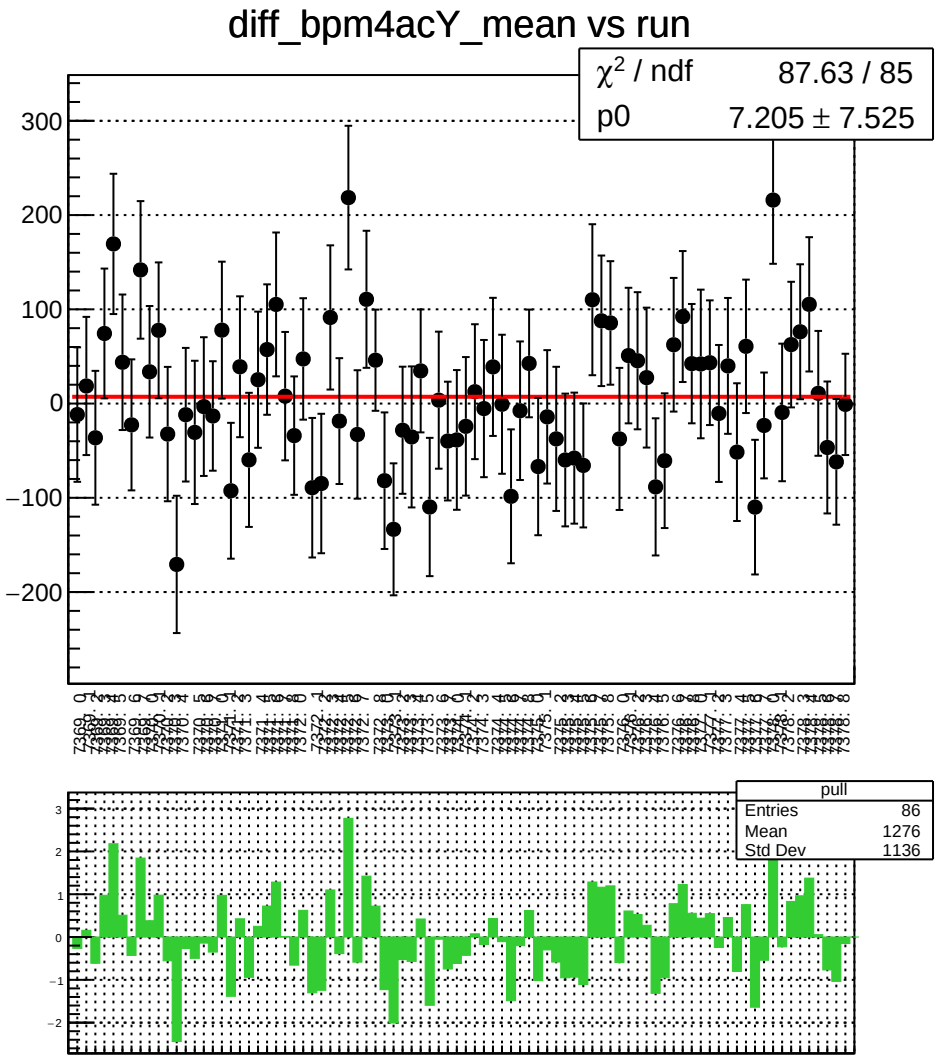

pull1D
Entries 86
Mean 4.951e−05
Std Dev 1.034

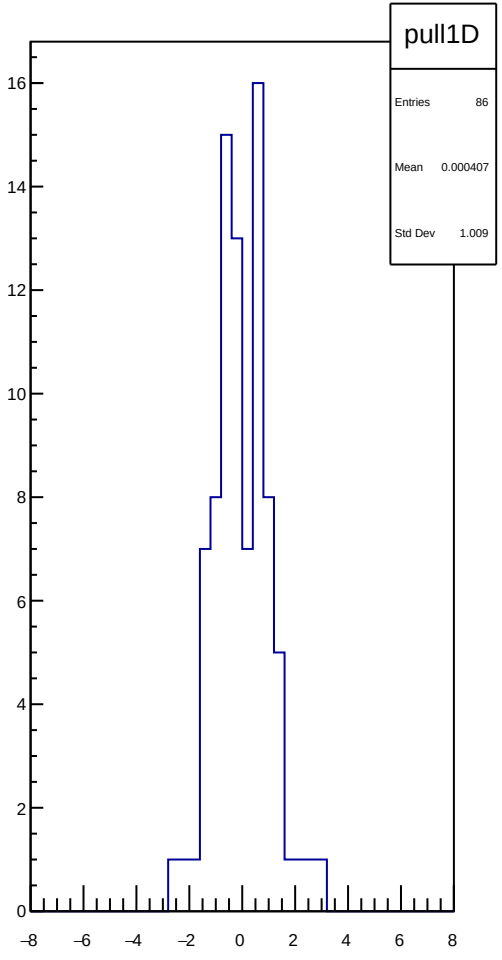

diff_bpm4eY_rms vs run
χ² / ndf 3081 / 85
p0 6601 ± 5.176
7400
7200
7000
6800
6600
6400
6200
6000

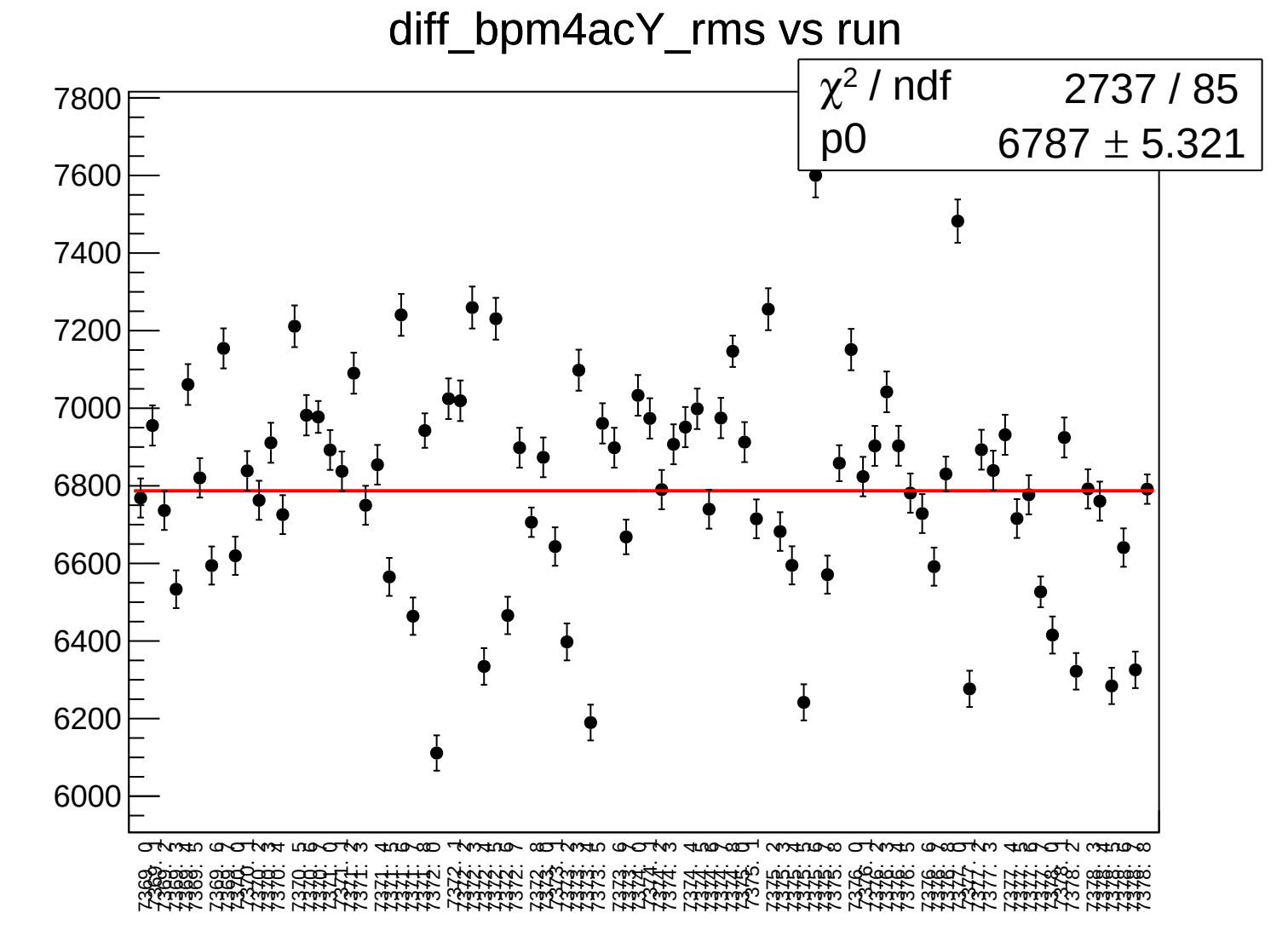

diff_bpm4acX_mean vs run
χ^2 / ndf 85.02 / 85
p0 2.229 ± 9.174
pull
Entries 86
Mean 181.5
Std Dev 184.6

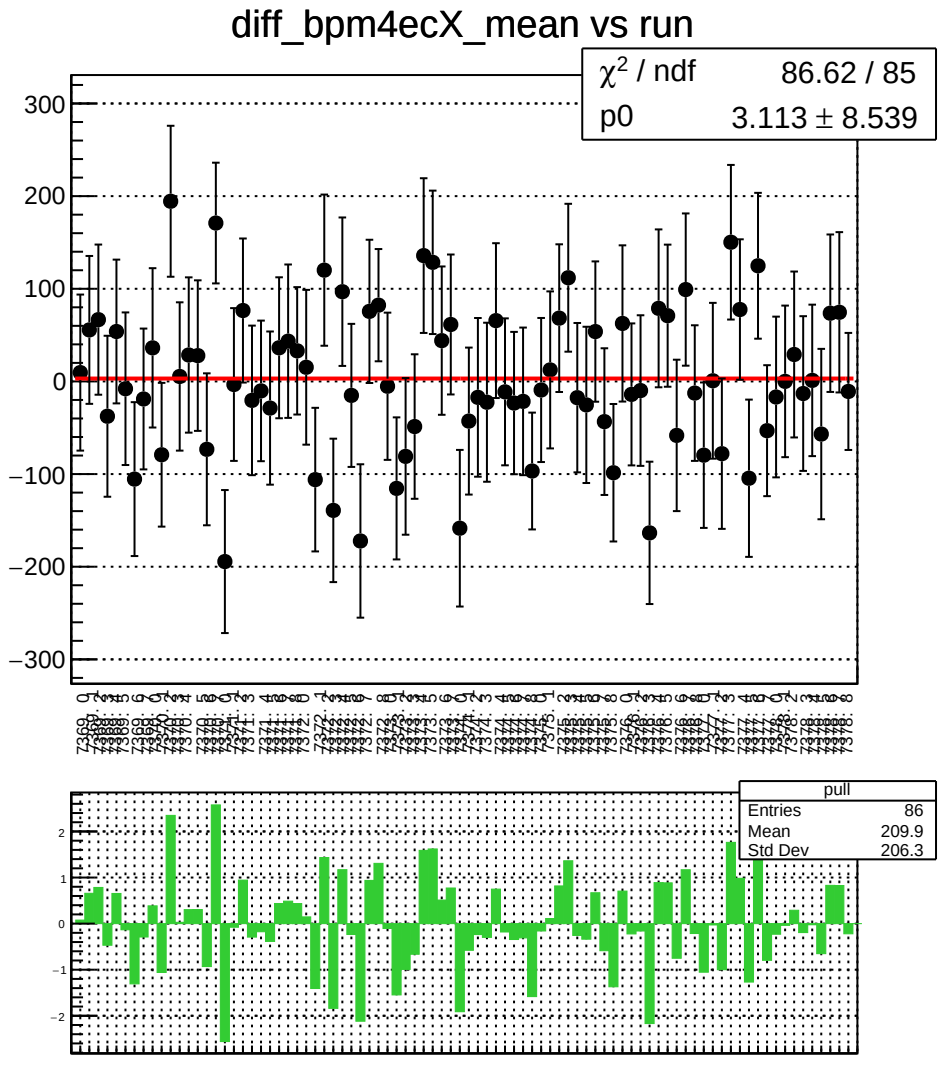

pull1D
Entries 86
Mean −0.003525
Std Dev 0.9943

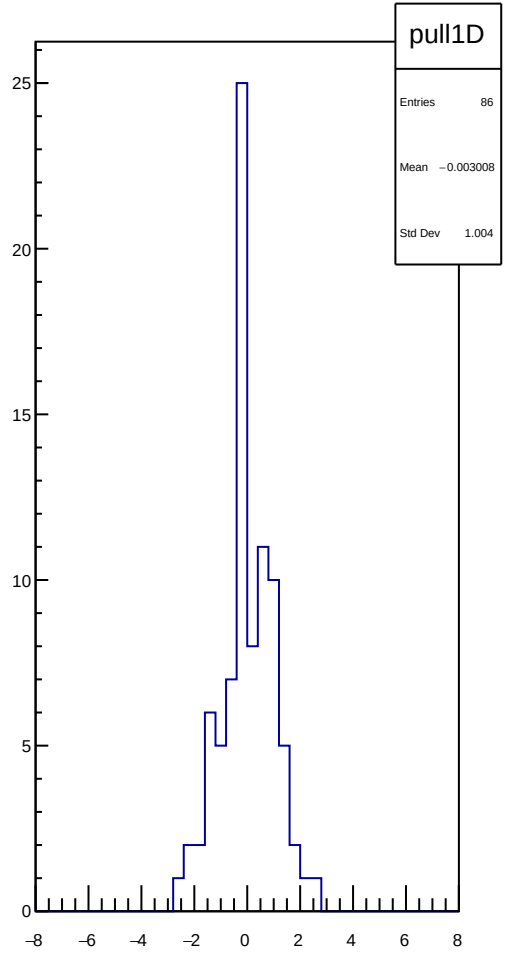

diff_bpm4acX_rms vs run
χ² / ndf 2631 / 85
p0 8274 ± 6.487
9500
9000
8500
8000
7500

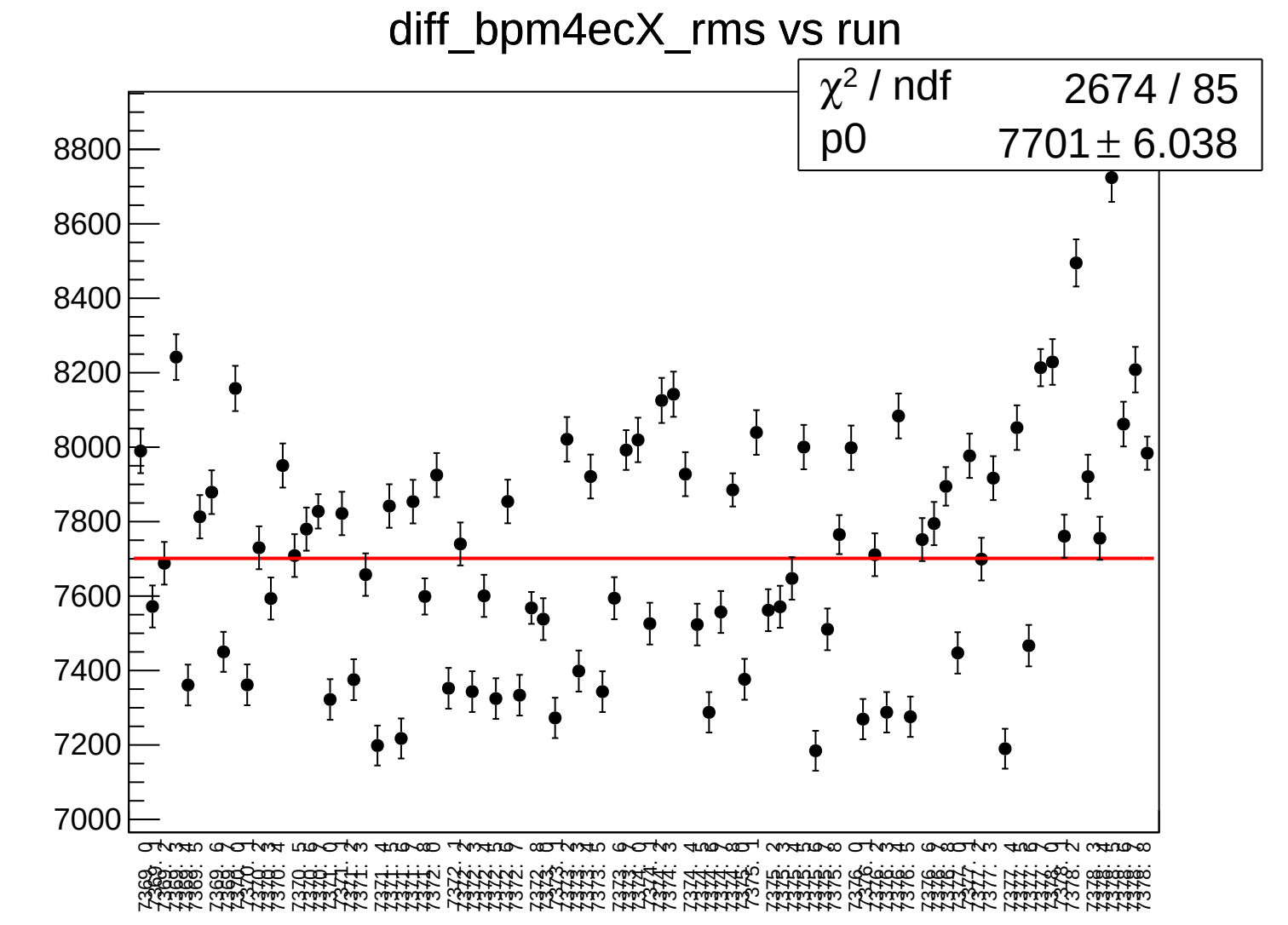

diff_bpm4acY_mean vs run
χ^2 / ndf 87.63 / 85
p0 7.205 ± 7.525
300
200
100
0
−100
−200
pull
Entries 86
Mean 1276
Std Dev 1136
3
2
1
0
−1
−2

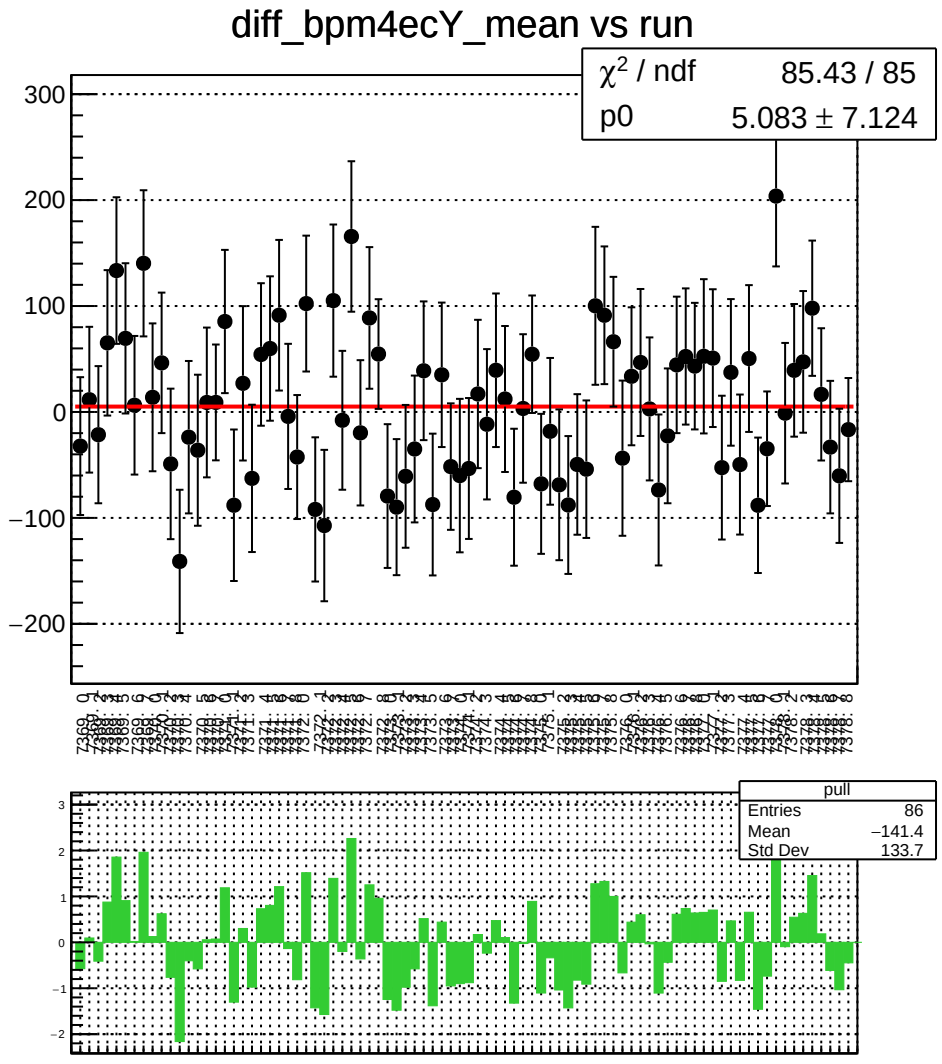

pull1D
Entries 86
Mean 0.000407
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

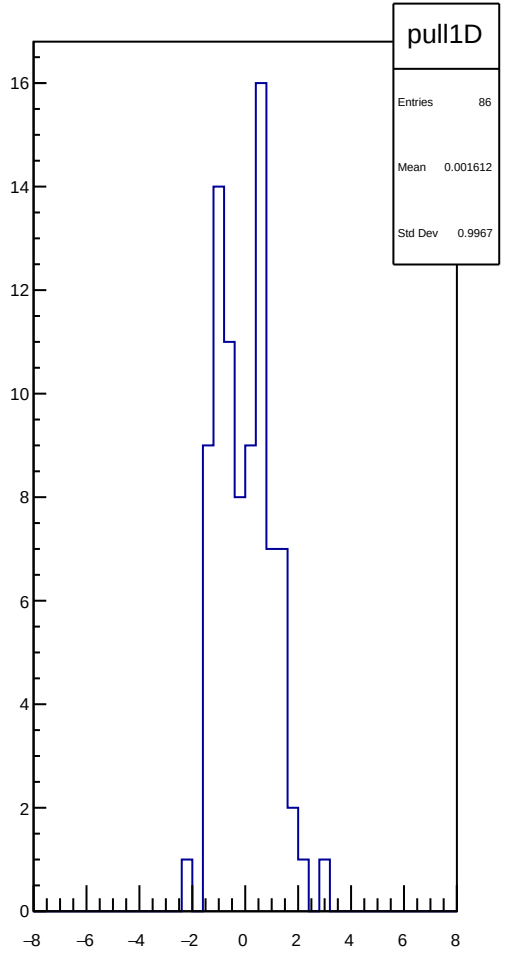

diff_bpm4acY_rms vs run
χ^2 / ndf 2737 / 85
p0 6787 ± 5.321
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

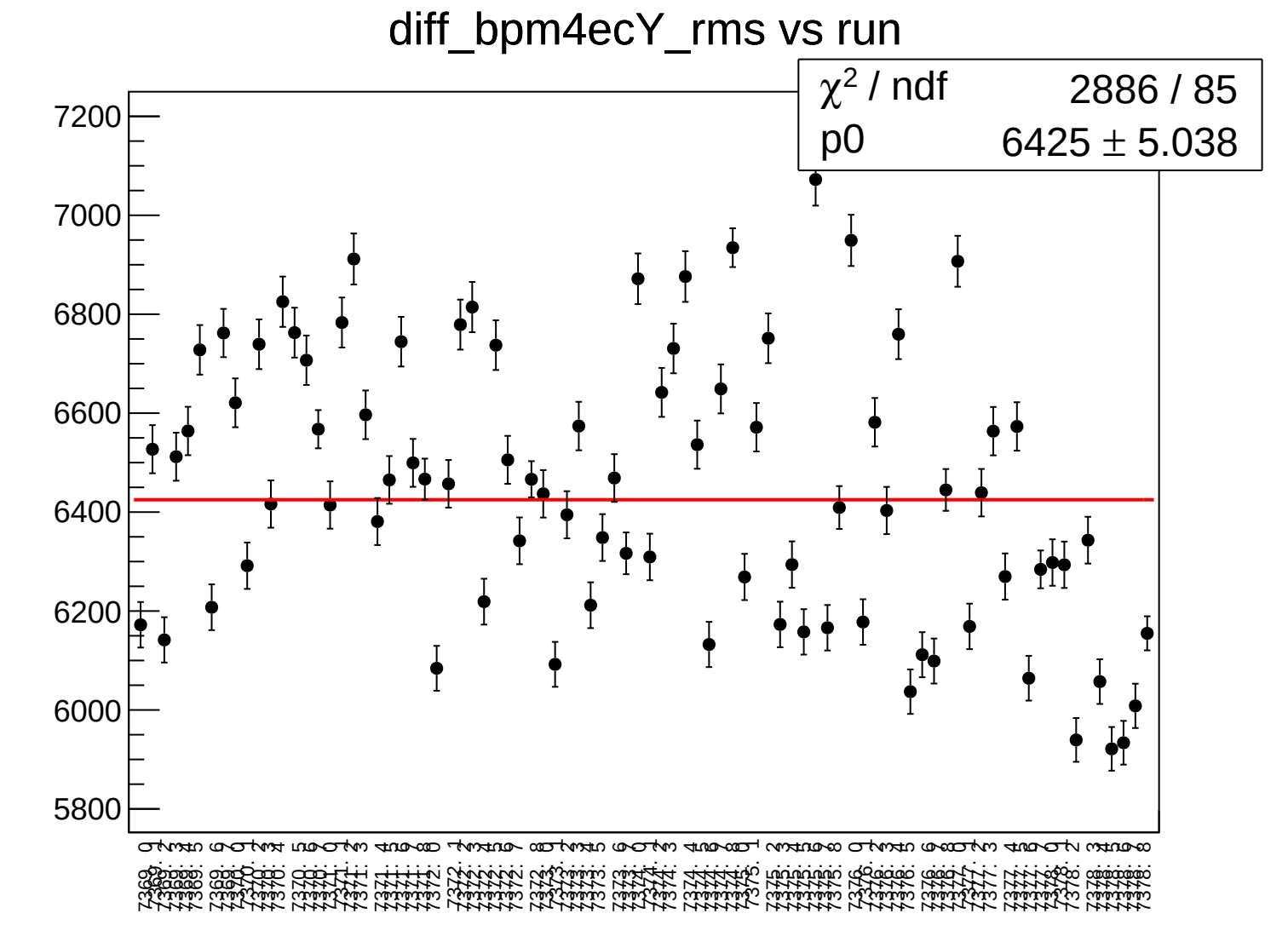

diff_bpm4ecX_mean vs run
χ^2 / ndf 86.62 / 85
p0 3.113 ± 8.539
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean 209.9
Std Dev 206.3
2
1
0
−1
−2

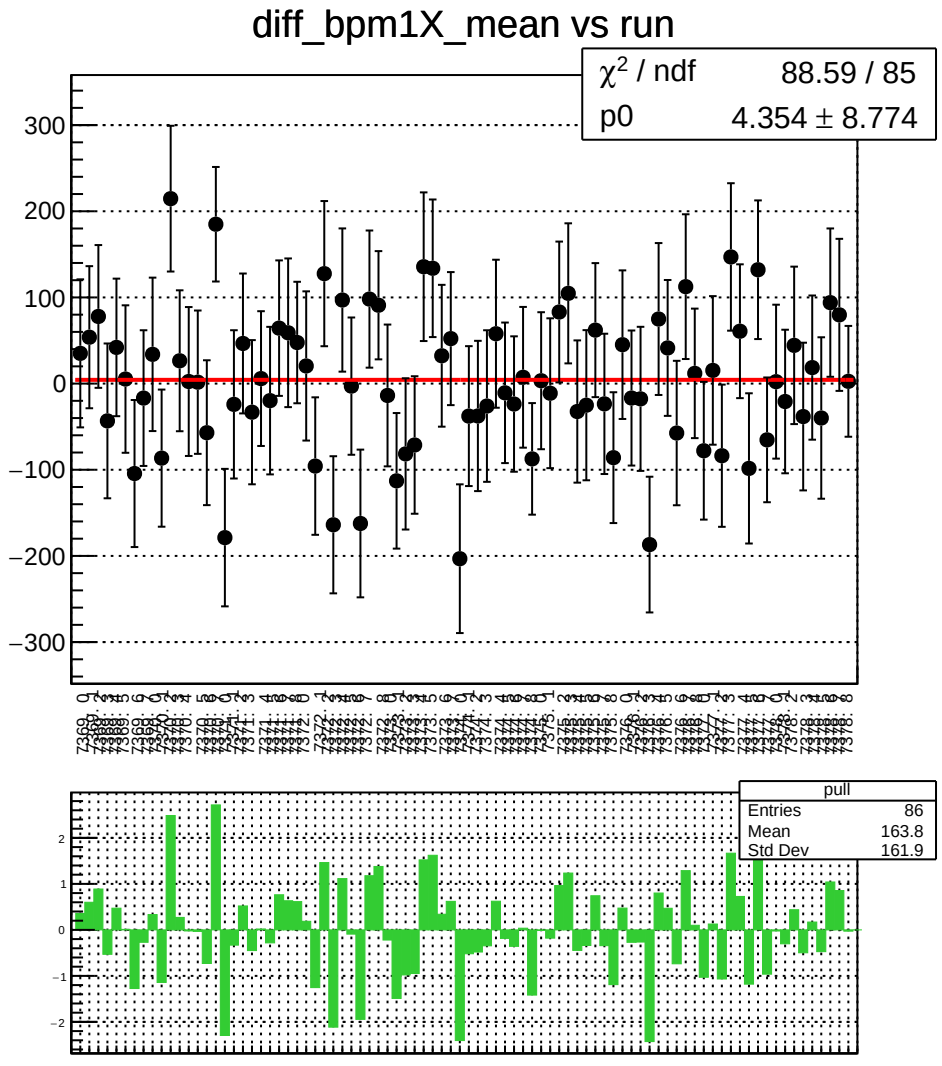

pull1D
Entries 86
Mean −0.003008
Std Dev 1.004
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

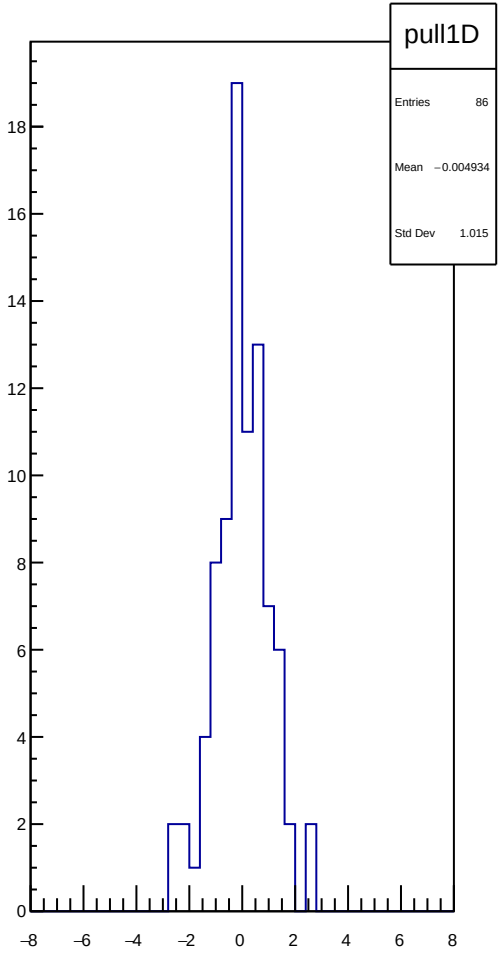

diff_bpm4ecX_rms vs run
χ² / ndf 2674 / 85
p0 7701 ± 6.038
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000

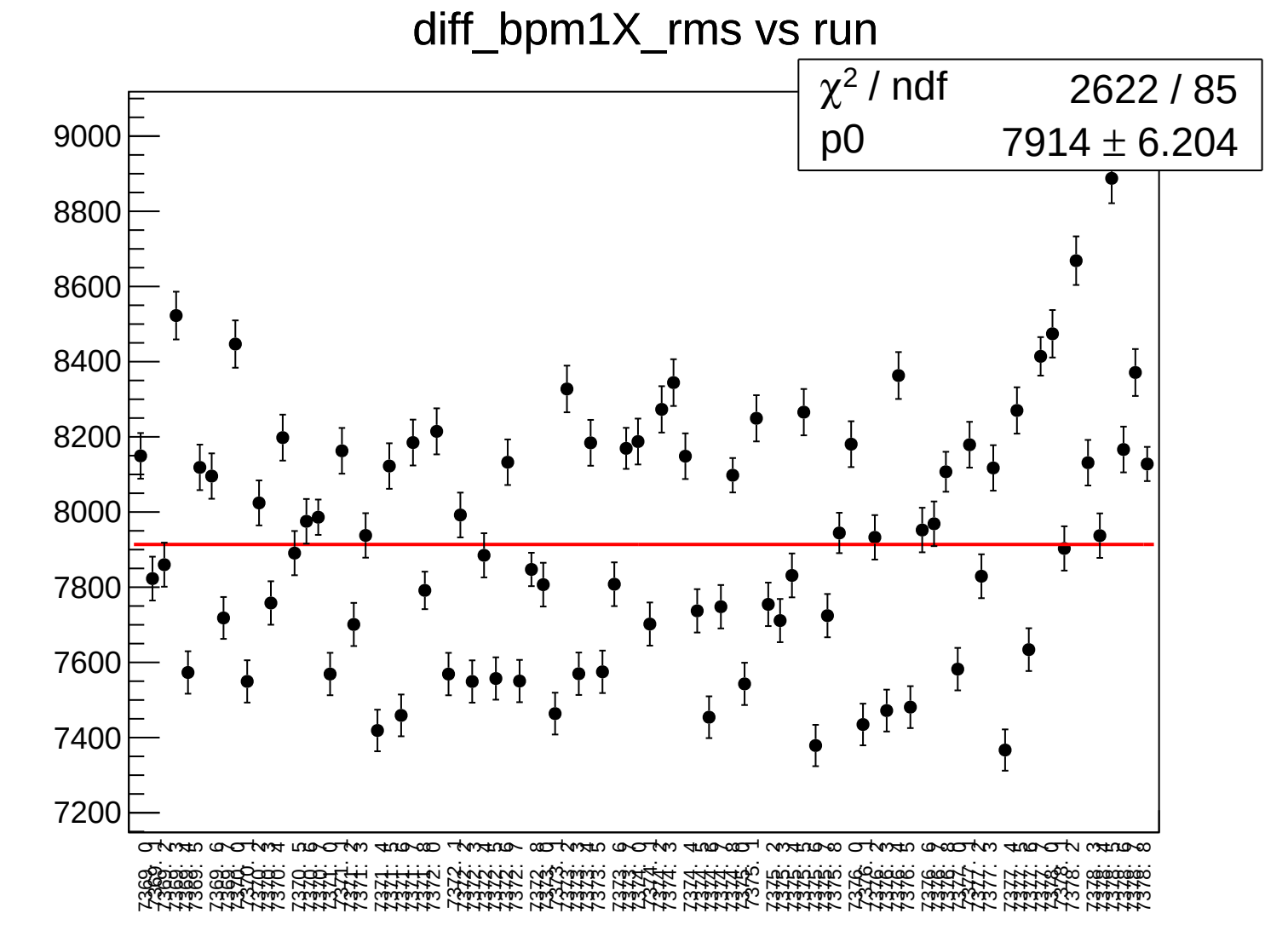

diff_bpm4ecY_mean vs run
χ² / ndf 85.43 / 85
p0 5.083 ± 7.124
300
200
100
0
−100
−200
pull
Entries 86
Mean −141.4
Std Dev 133.7
3
2
1
0
−1
−2

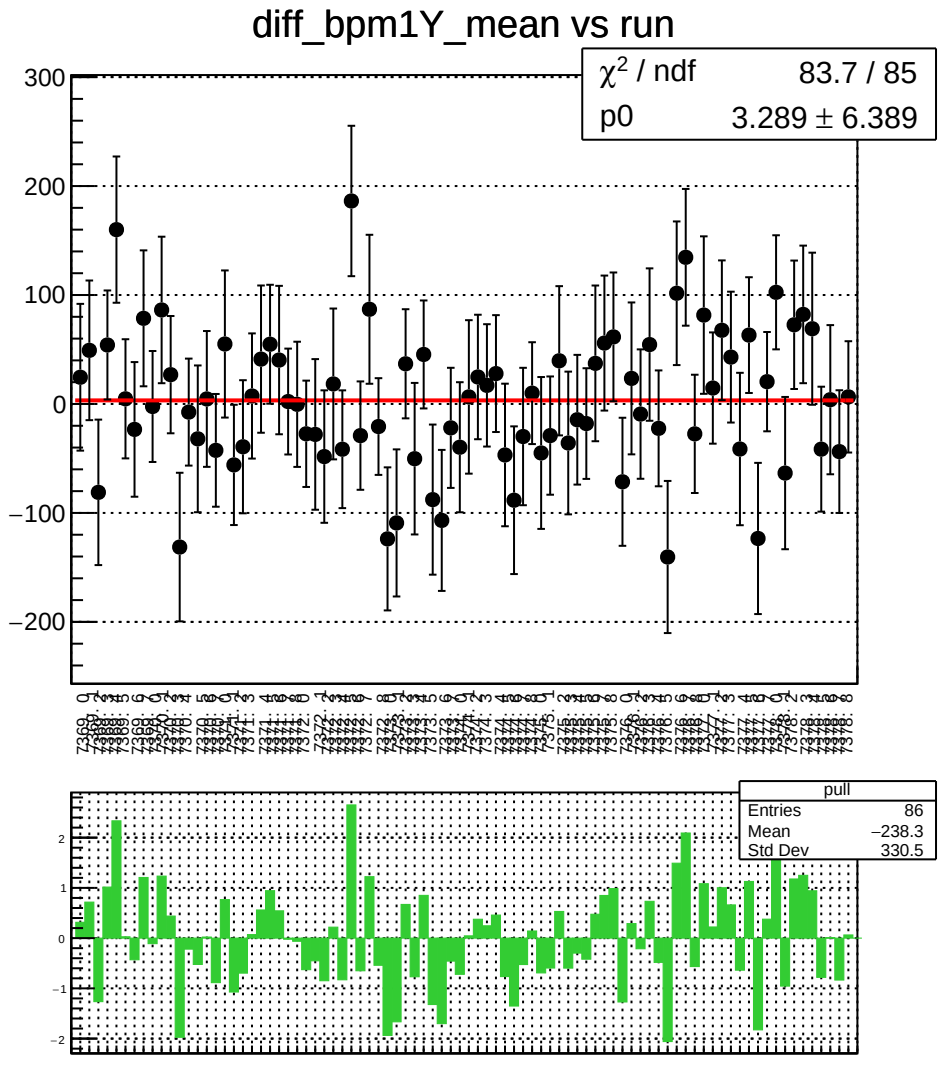

pull1D
Entries 86
Mean 0.001612
Std Dev 0.9967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

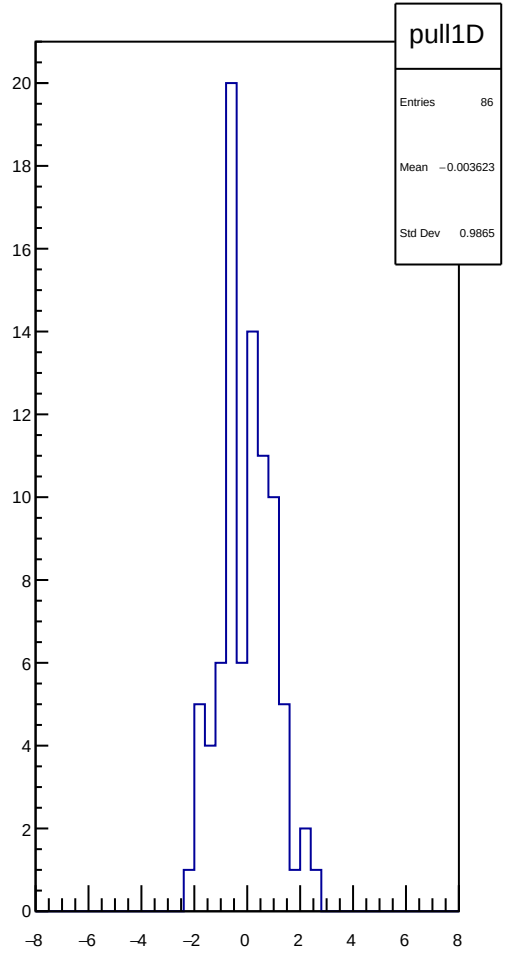

diff_bpm4ecY_rms vs run
χ² / ndf 2886 / 85
p0 6425 ± 5.038
7200
7000
6800
6600
6400
6200
6000
5800

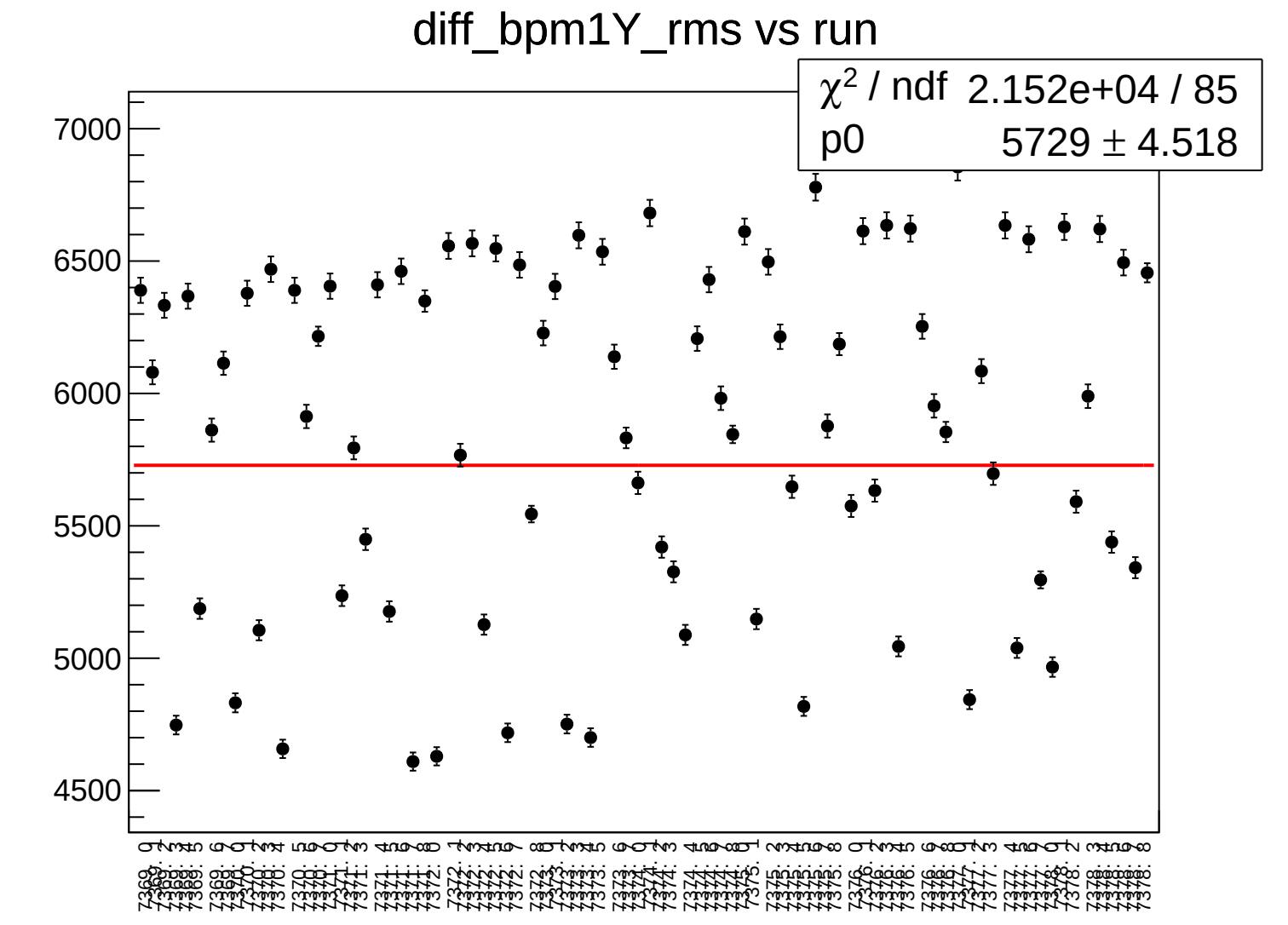

diff_bpm1X_mean vs run
χ² / ndf 88.59 / 85
p0 4.354 ± 8.774
pull
Entries 86
Mean 163.8
Std Dev 161.9

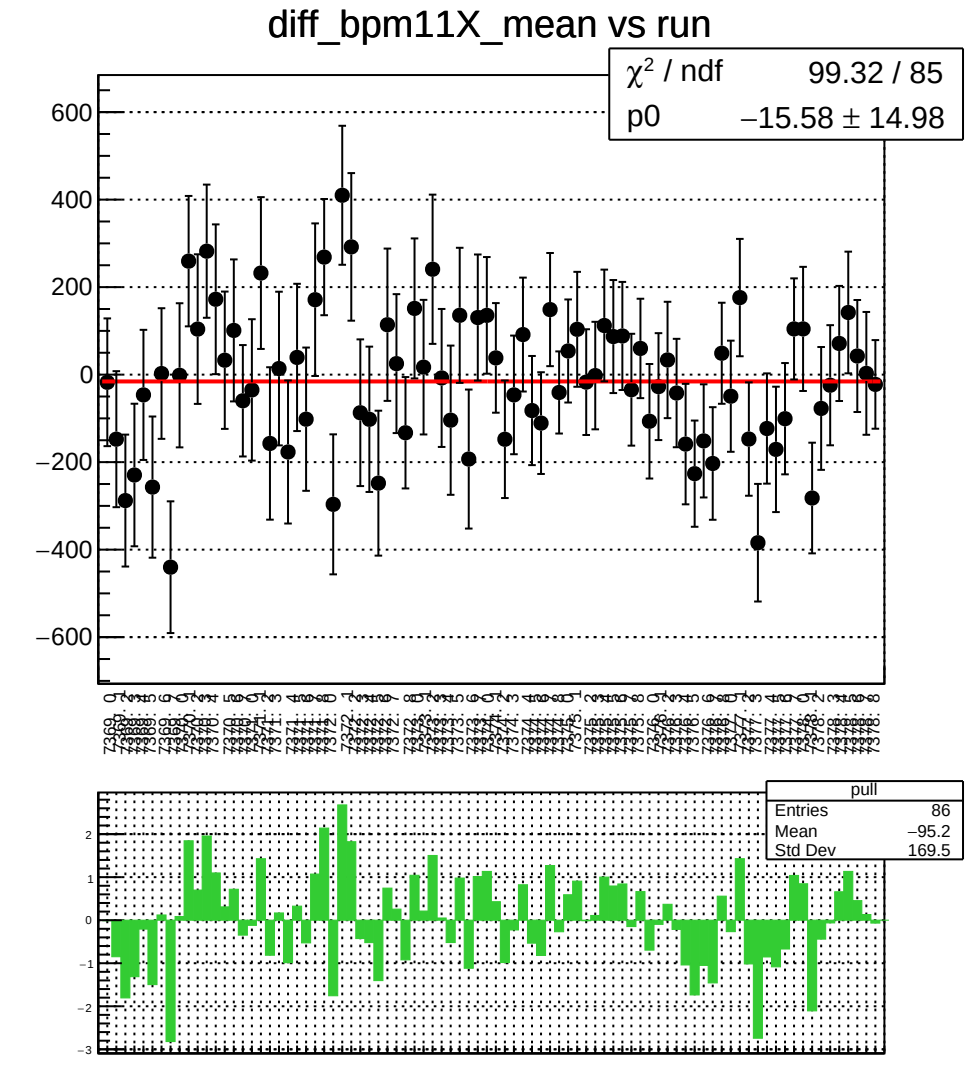

pull1D
Entries 86
Mean −0.004934
Std Dev 1.015

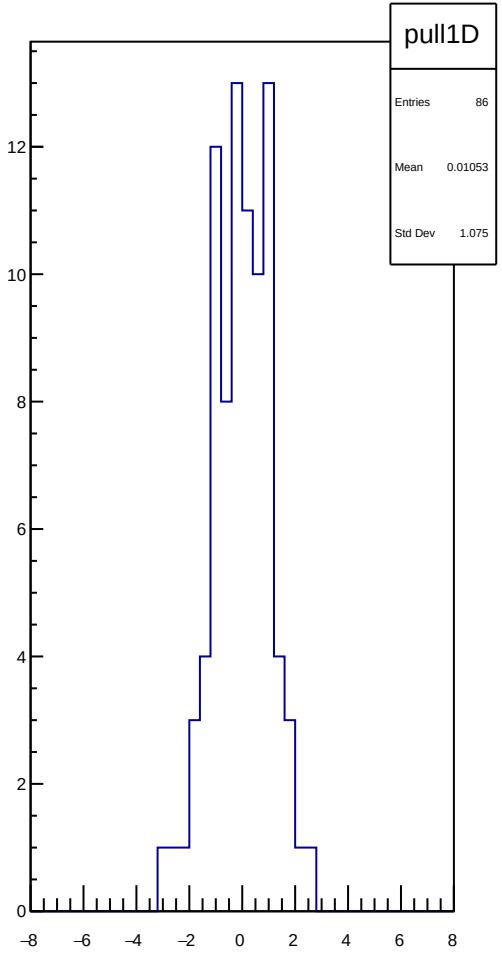

diff_bpm1X_rms vs run
χ² / ndf 2622 / 85
p0 7914 ± 6.204
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

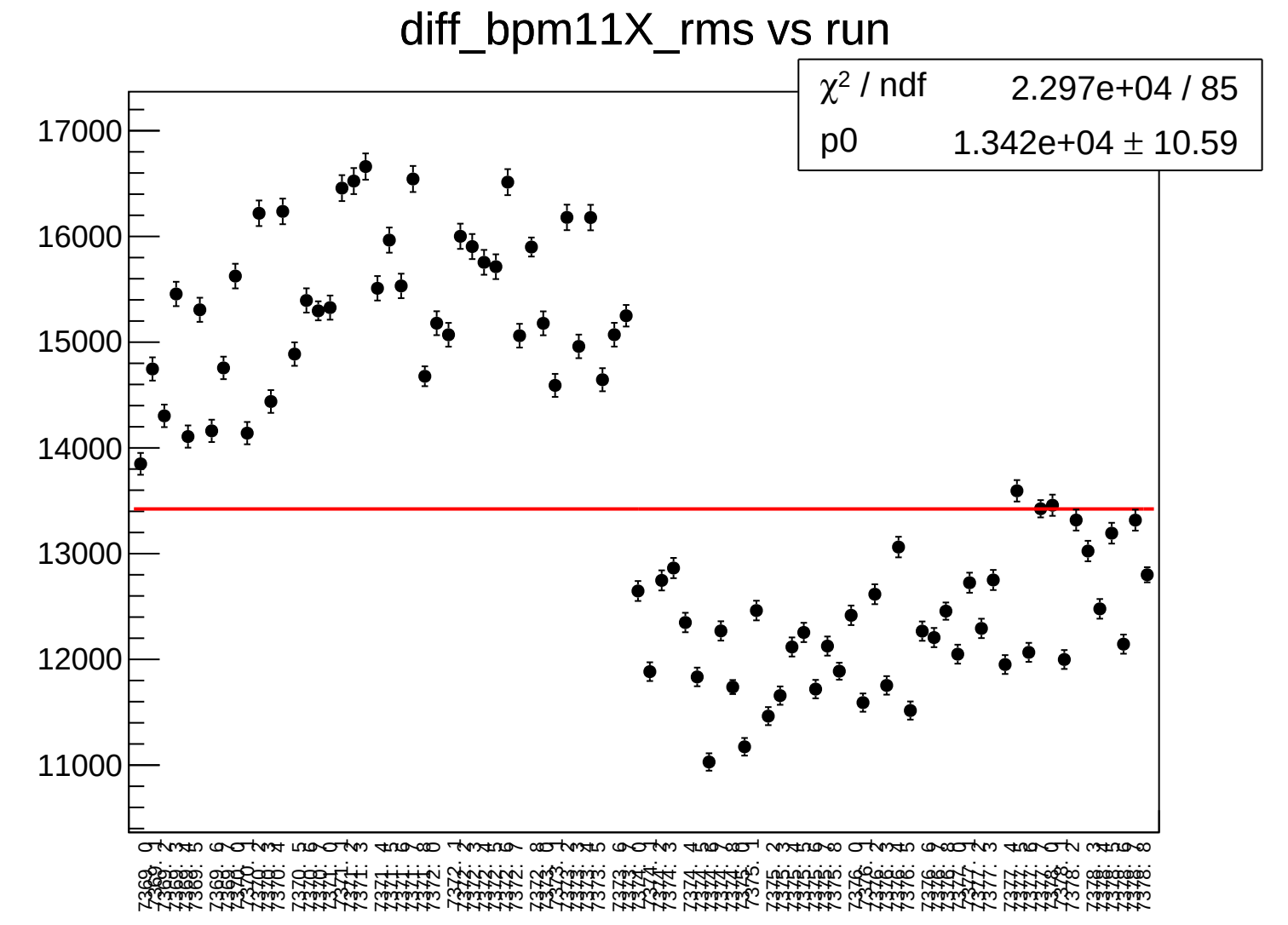

diff_bpm1Y_mean vs run
χ^2 / ndf 83.7 / 85
p0 3.289 ± 6.389
pull
Entries 86
Mean −238.3
Std Dev 330.5

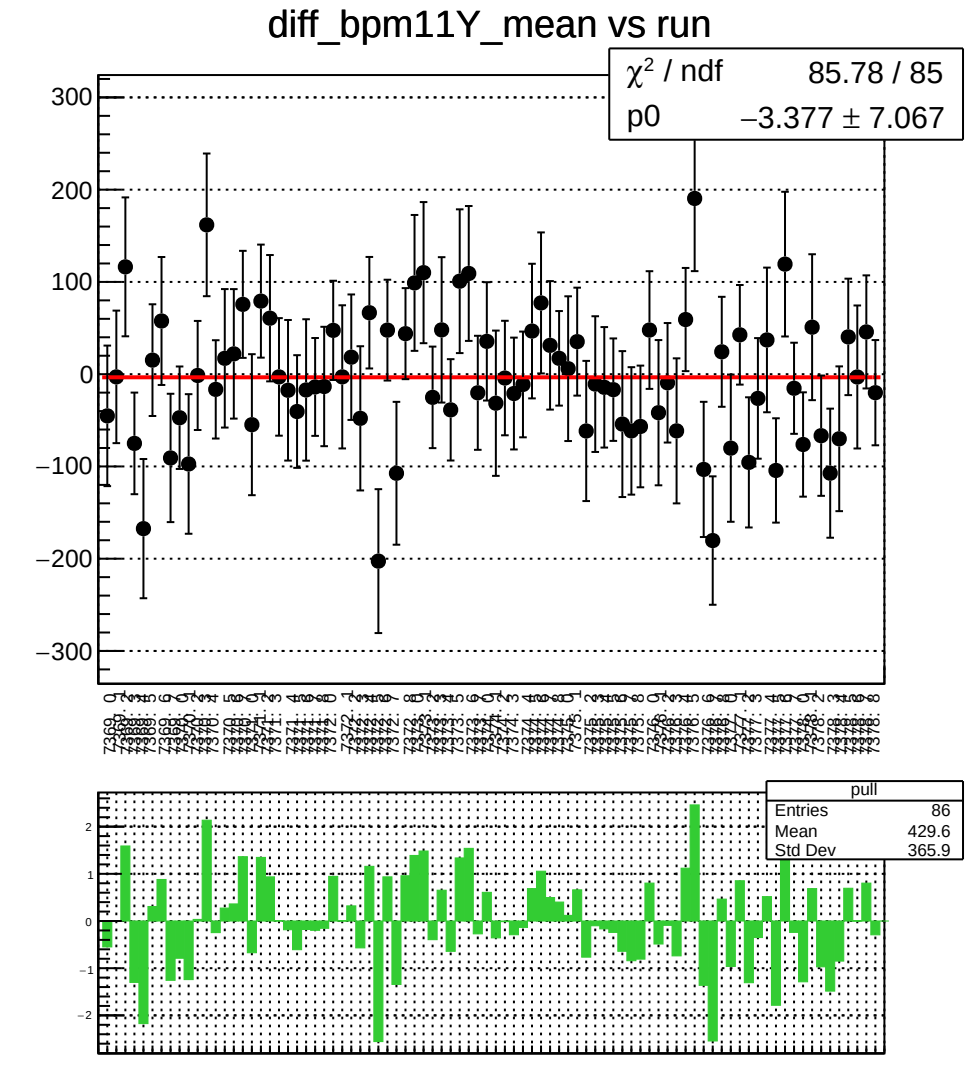

pull1D
Entries 86
Mean −0.003623
Std Dev 0.9865

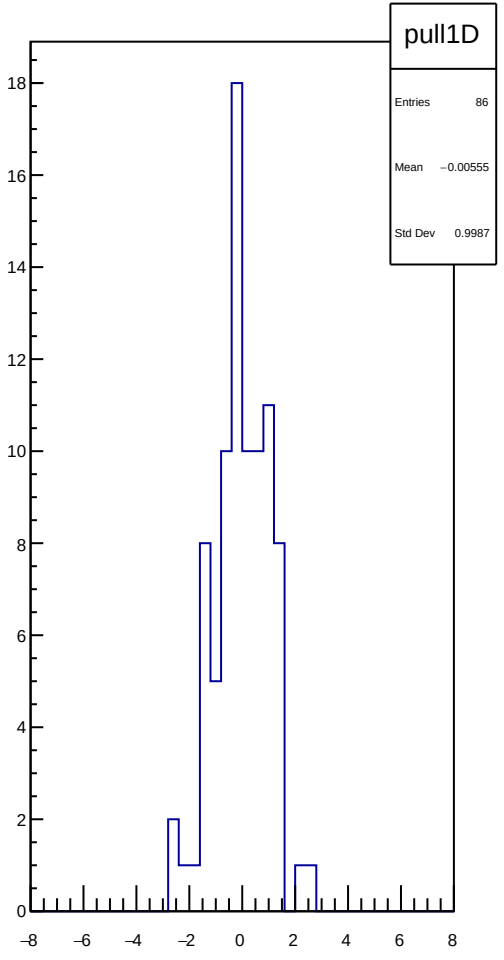

diff_bpm1Y_rms vs run
χ² / ndf 2.152e+04 / 85
p0 5729 ± 4.518
7000
6500
6000
5500
5000
4500

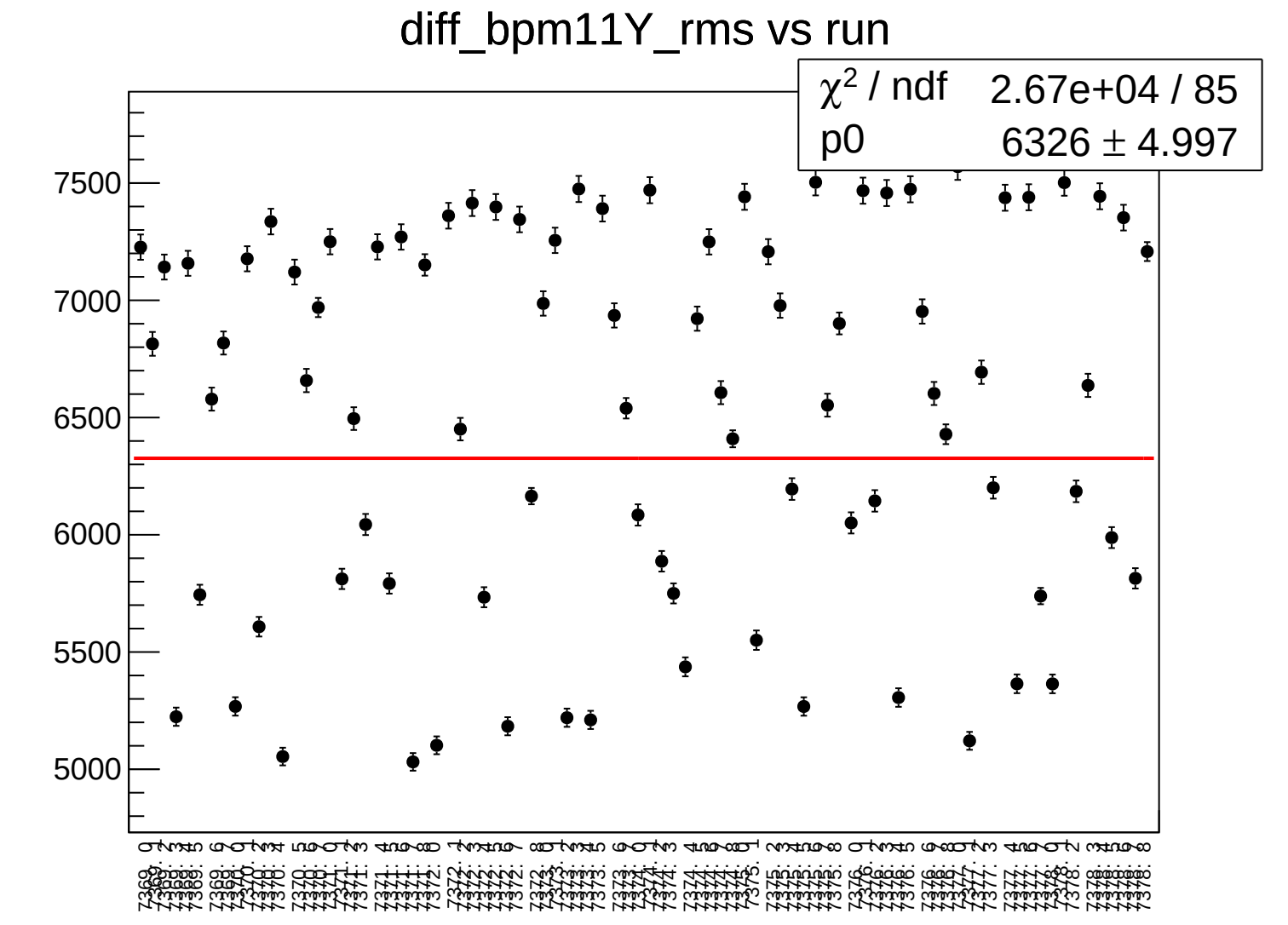

diff_bpm11X_mean vs run
χ² / ndf 99.32 / 85
p0 −15.58 ± 14.98
600
400
200
0
−200
−400
−600
pull
Entries 86
Mean −95.2
Std Dev 169.5
2
1
0
−1
−2
−3

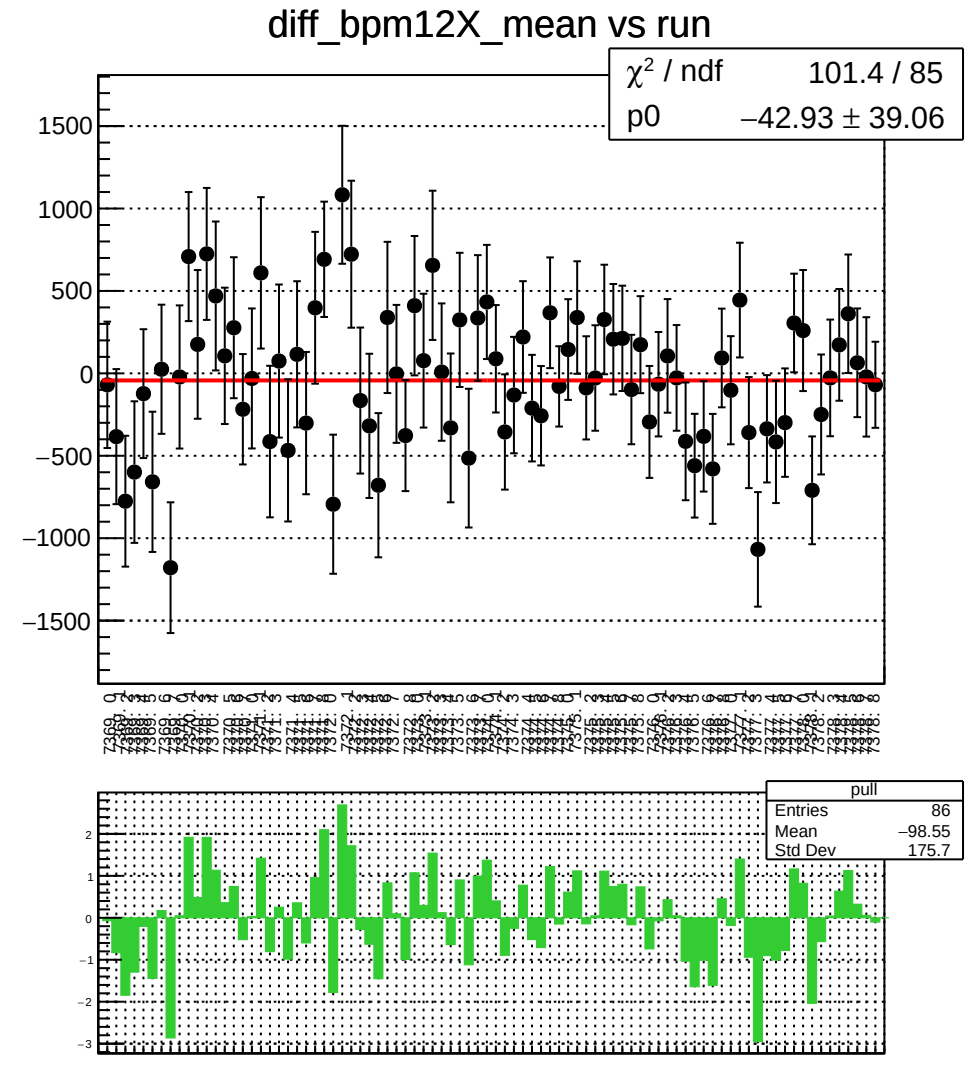

pull1D
Entries 86
Mean 0.01053
Std Dev 1.075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

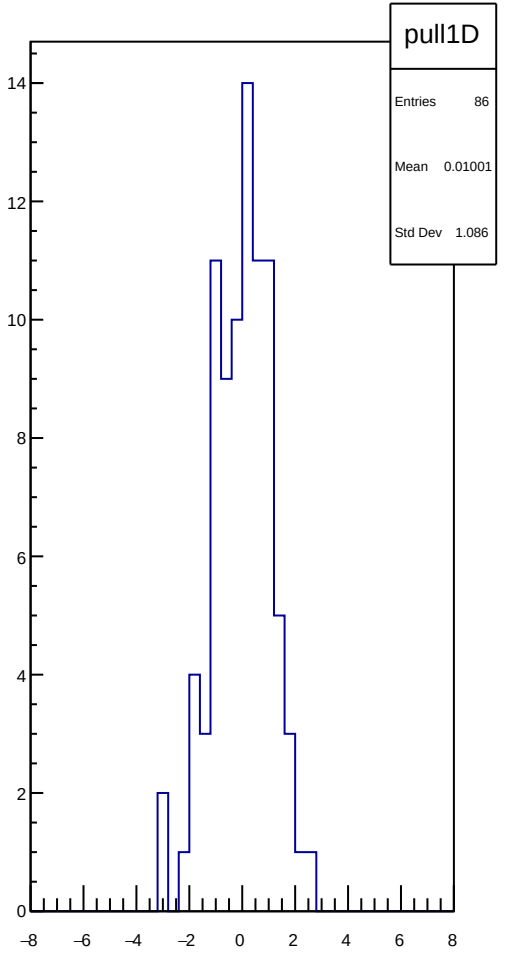

diff_bpm11X_rms vs run
χ² / ndf 2.297e+04 / 85
p0 1.342e+04 ± 10.59
17000
16000
15000
14000
13000
12000
11000

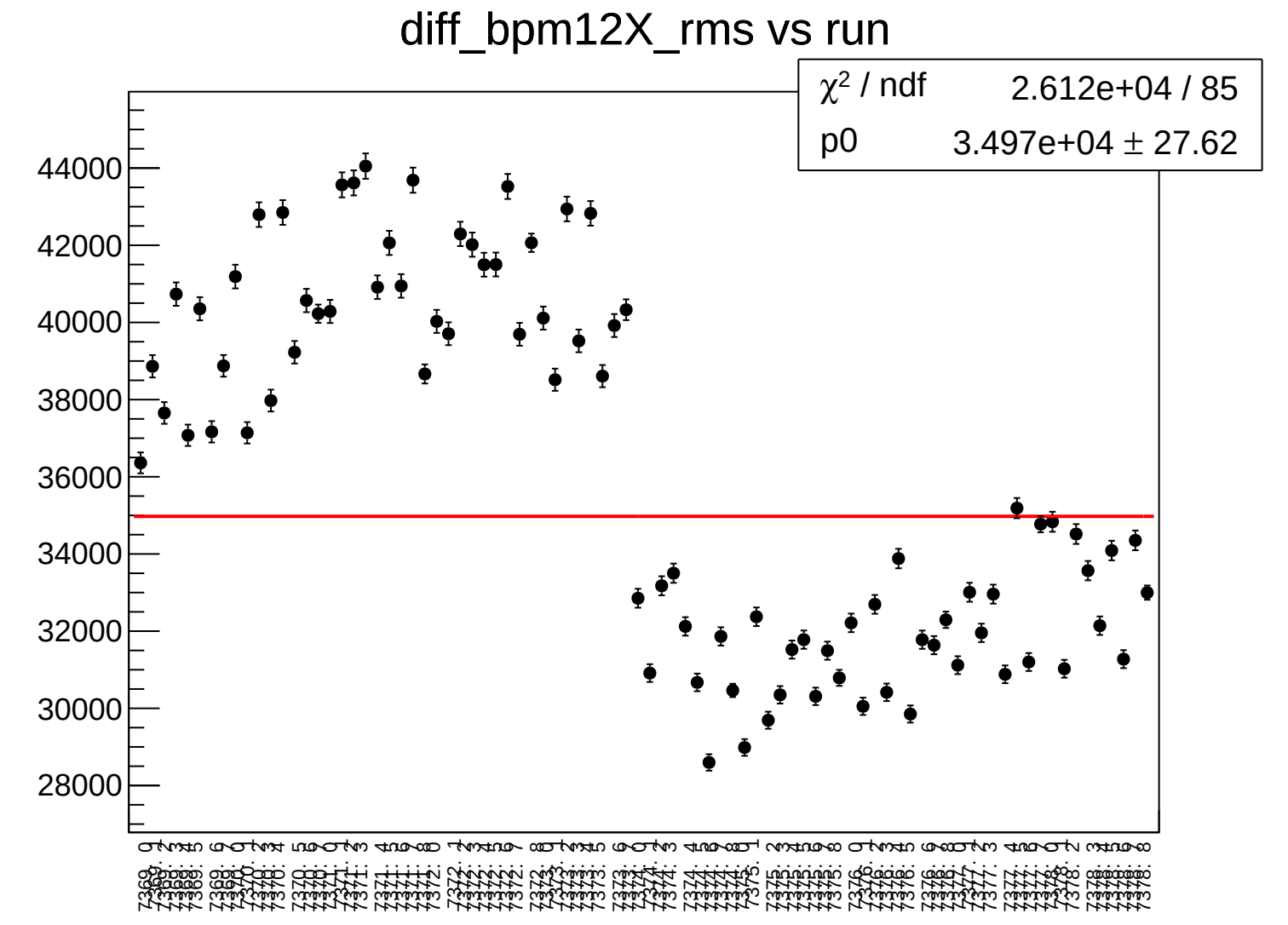

diff_bpm11Y_mean vs run
χ² / ndf 85.78 / 85
p0 −3.377 ± 7.067
pull
Entries 86
Mean 429.6
Std Dev 365.9

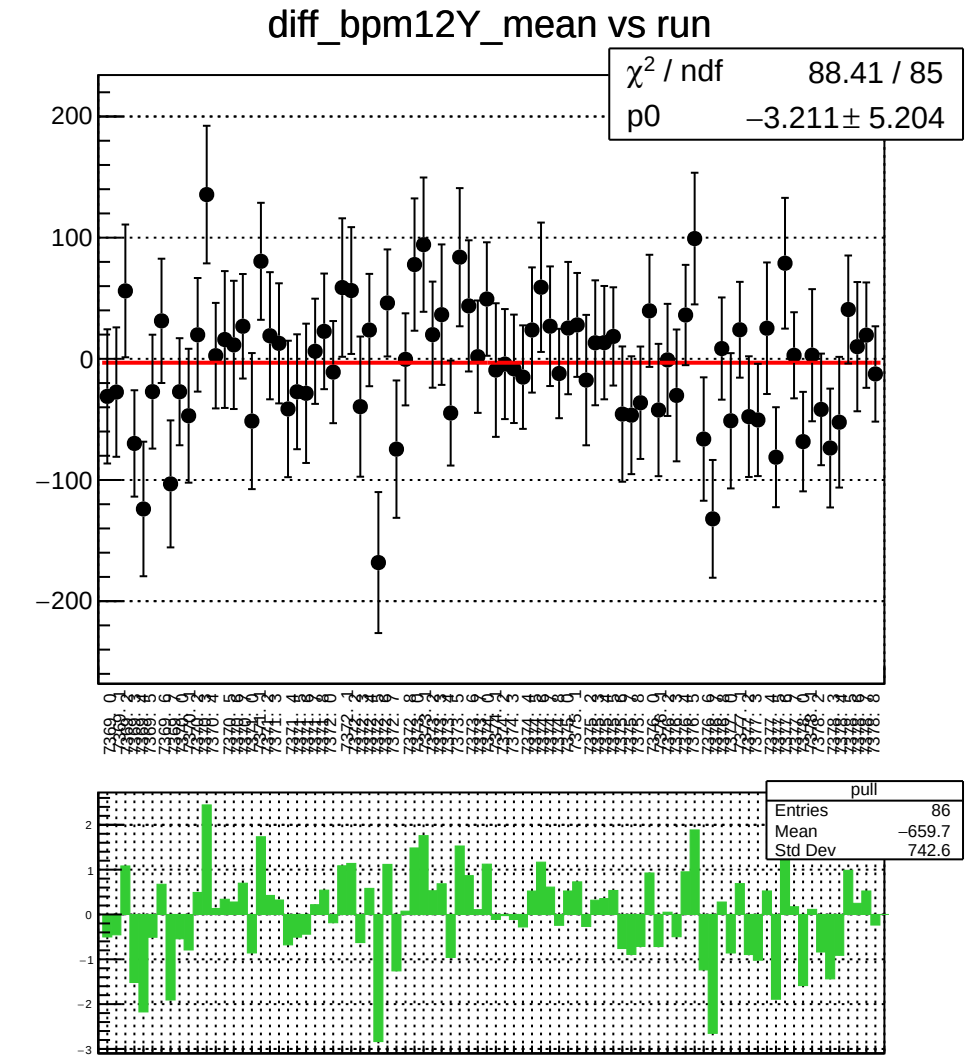

pull1D
Entries 86
Mean −0.00555
Std Dev 0.9987

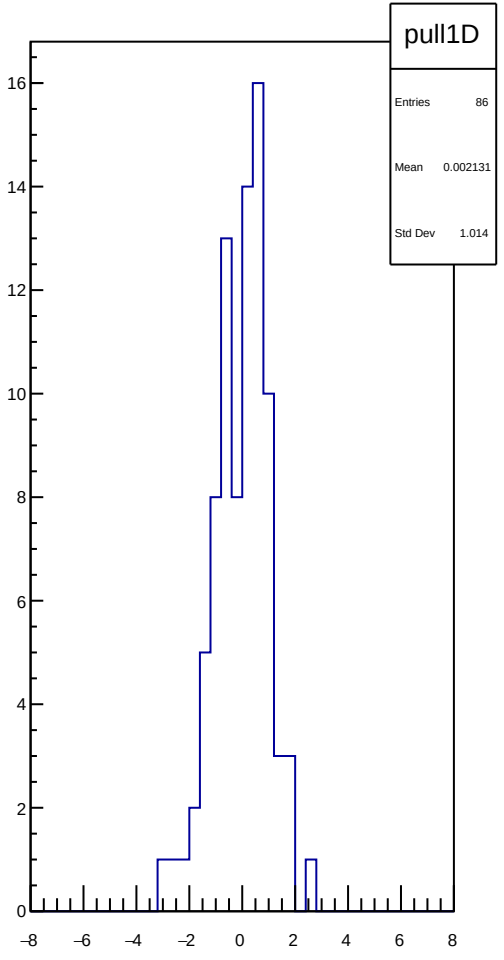

diff_bpm11Y_rms vs run
χ² / ndf 2.67e+04 / 85
p0 6326 ± 4.997
7500
7000
6500
6000
5500
5000

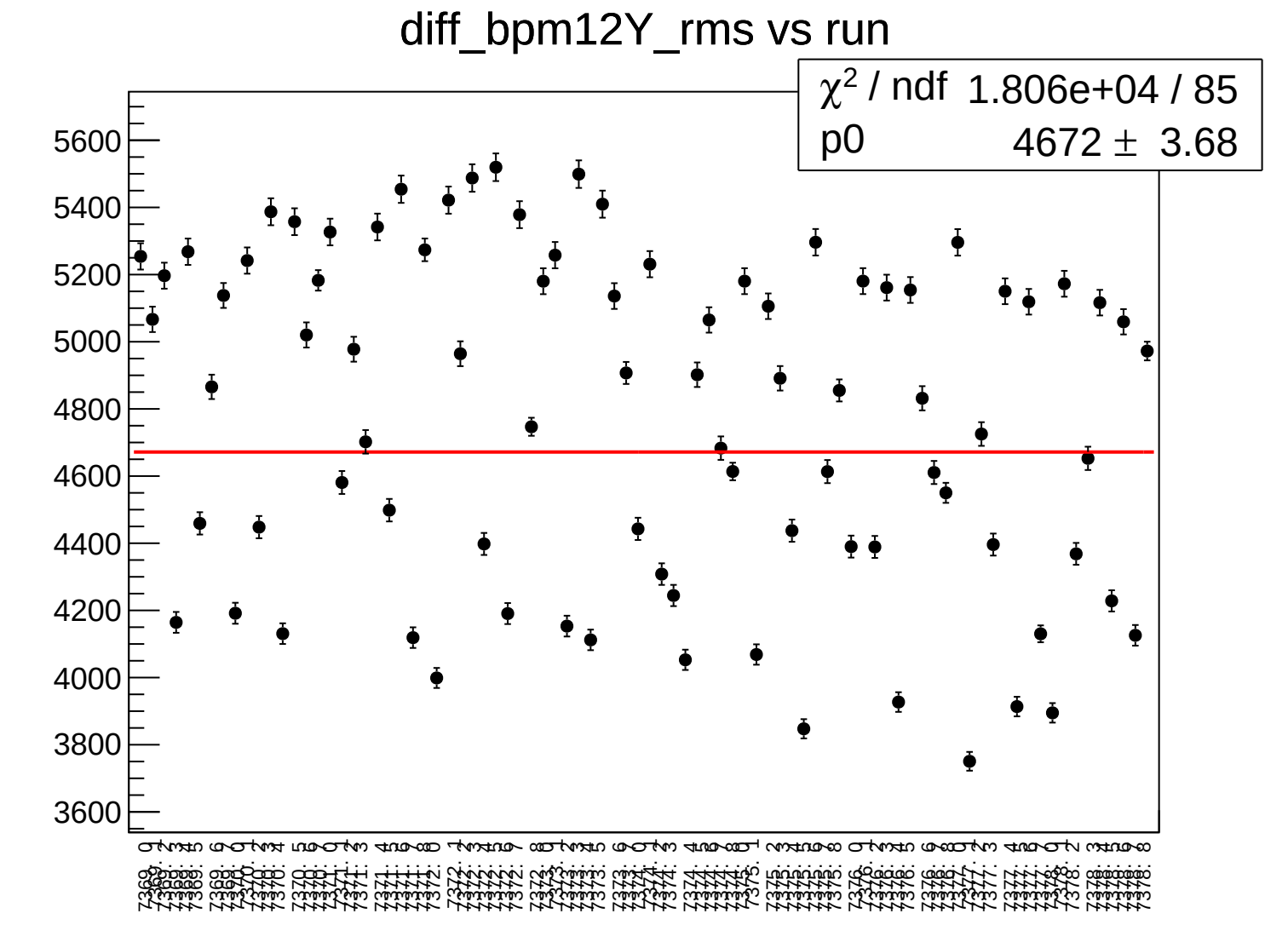

diff_bpm12X_mean vs run
χ² / ndf 101.4 / 85
p0 −42.93 ± 39.06
pull
Entries 86
Mean −98.55
Std Dev 175.7

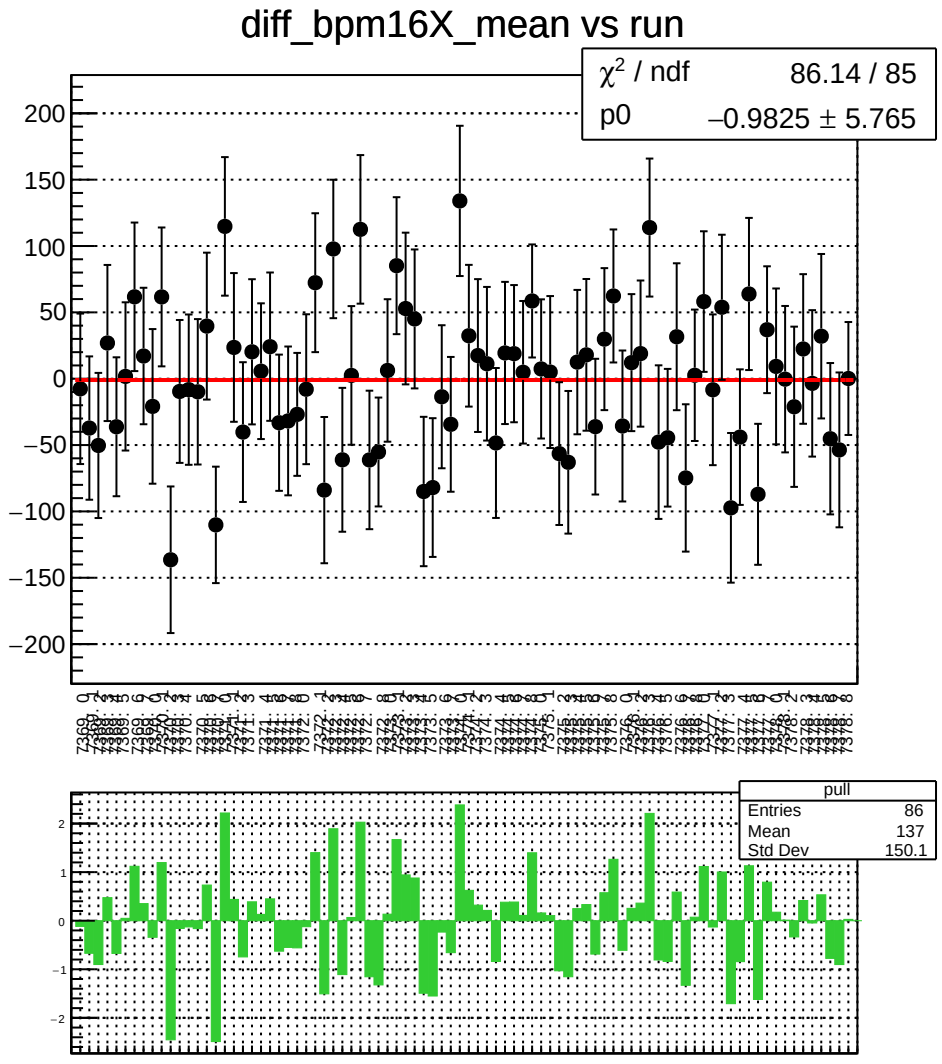

pull1D
Entries 86
Mean 0.01001
Std Dev 1.086

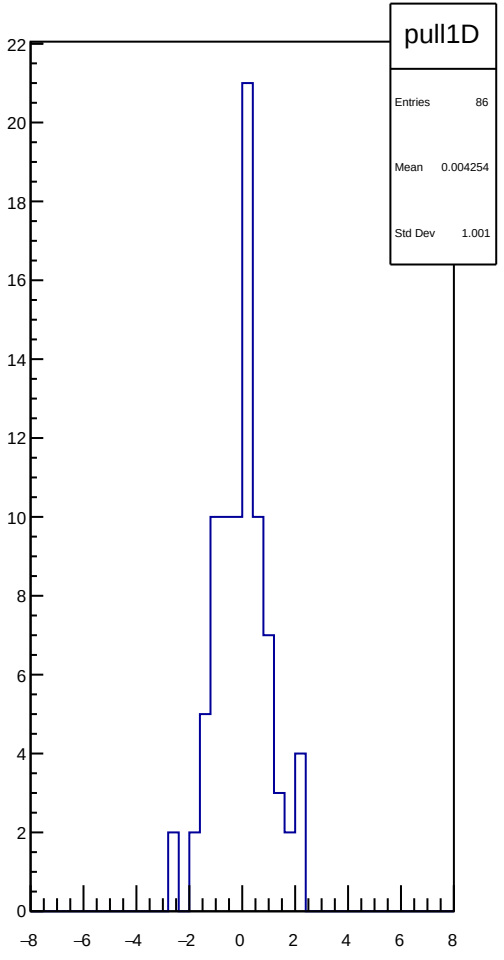

diff_bpm12X_rms vs run
χ² / ndf 2.612e+04 / 85
p0 3.497e+04 ± 27.62
44000
42000
40000
38000
36000
34000
32000
30000
28000

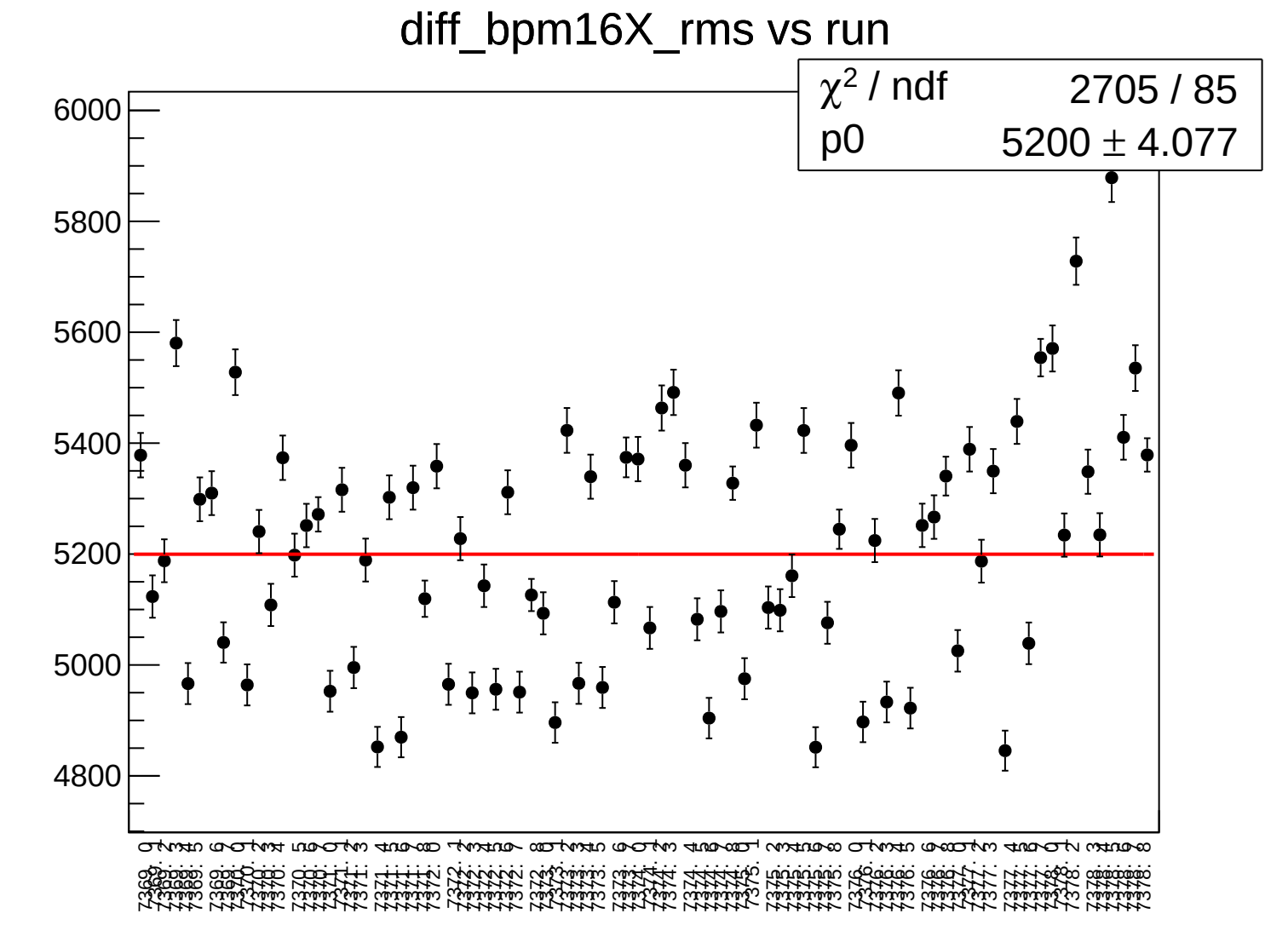

diff_bpm12Y_mean vs run
χ² / ndf 88.41 / 85
p0 −3.211 ± 5.204
pull
Entries 86
Mean −659.7
Std Dev 742.6

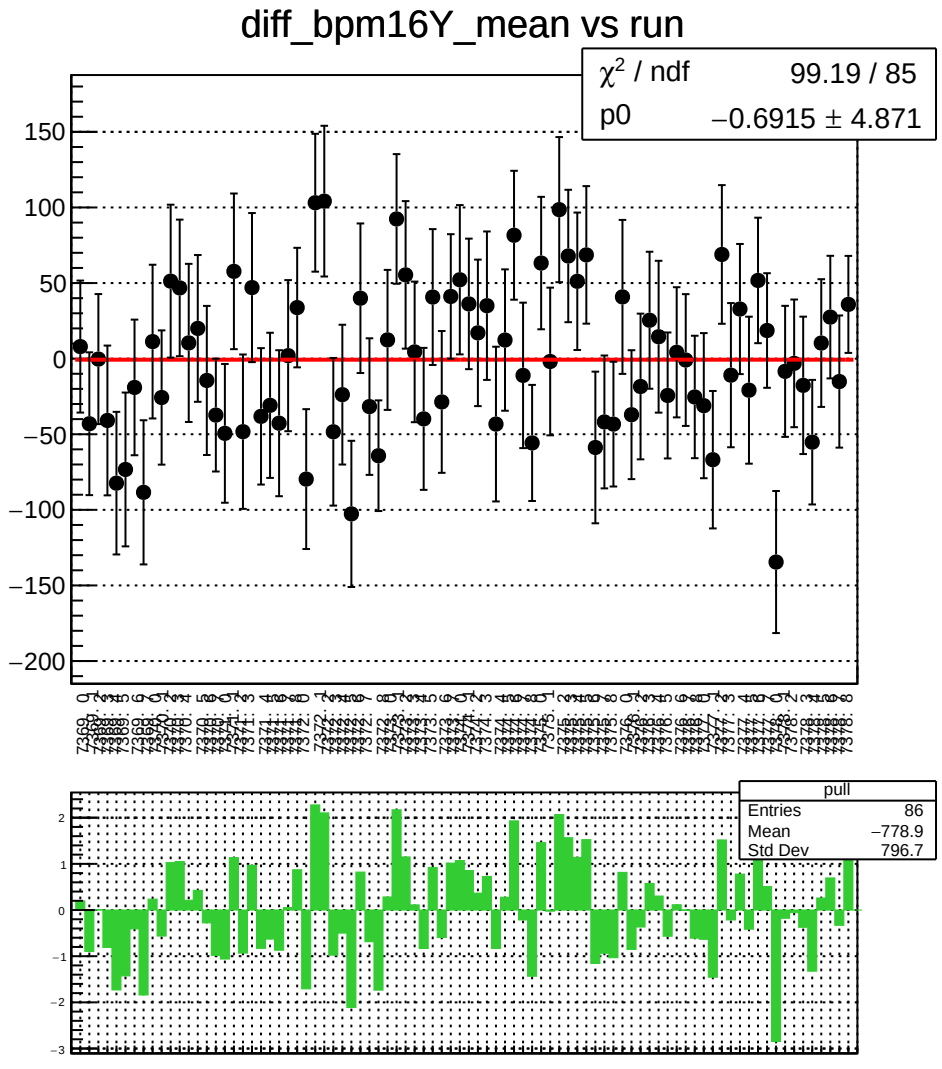

pull1D
Entries 86
Mean 0.002131
Std Dev 1.014

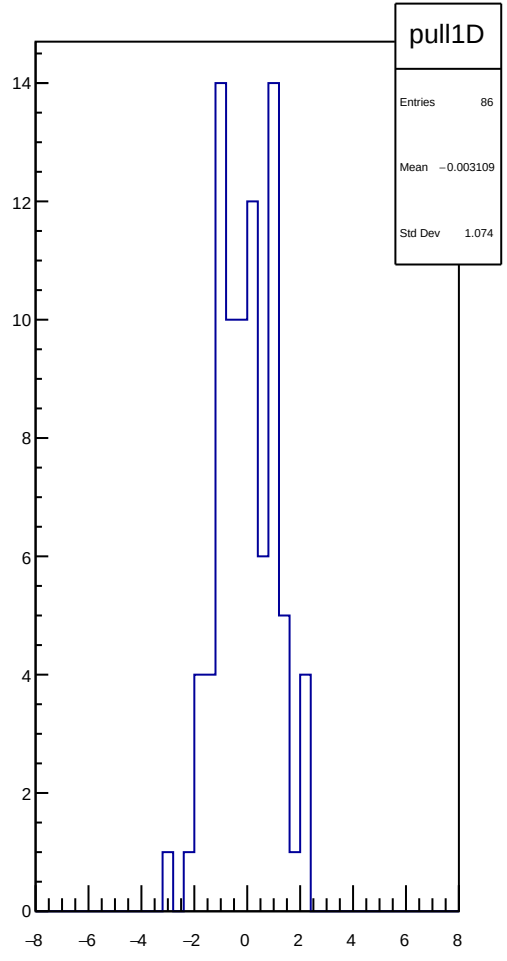

diff_bpm12Y_rms vs run
χ² / ndf 1.806e+04 / 85
p0 4672 ± 3.68
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

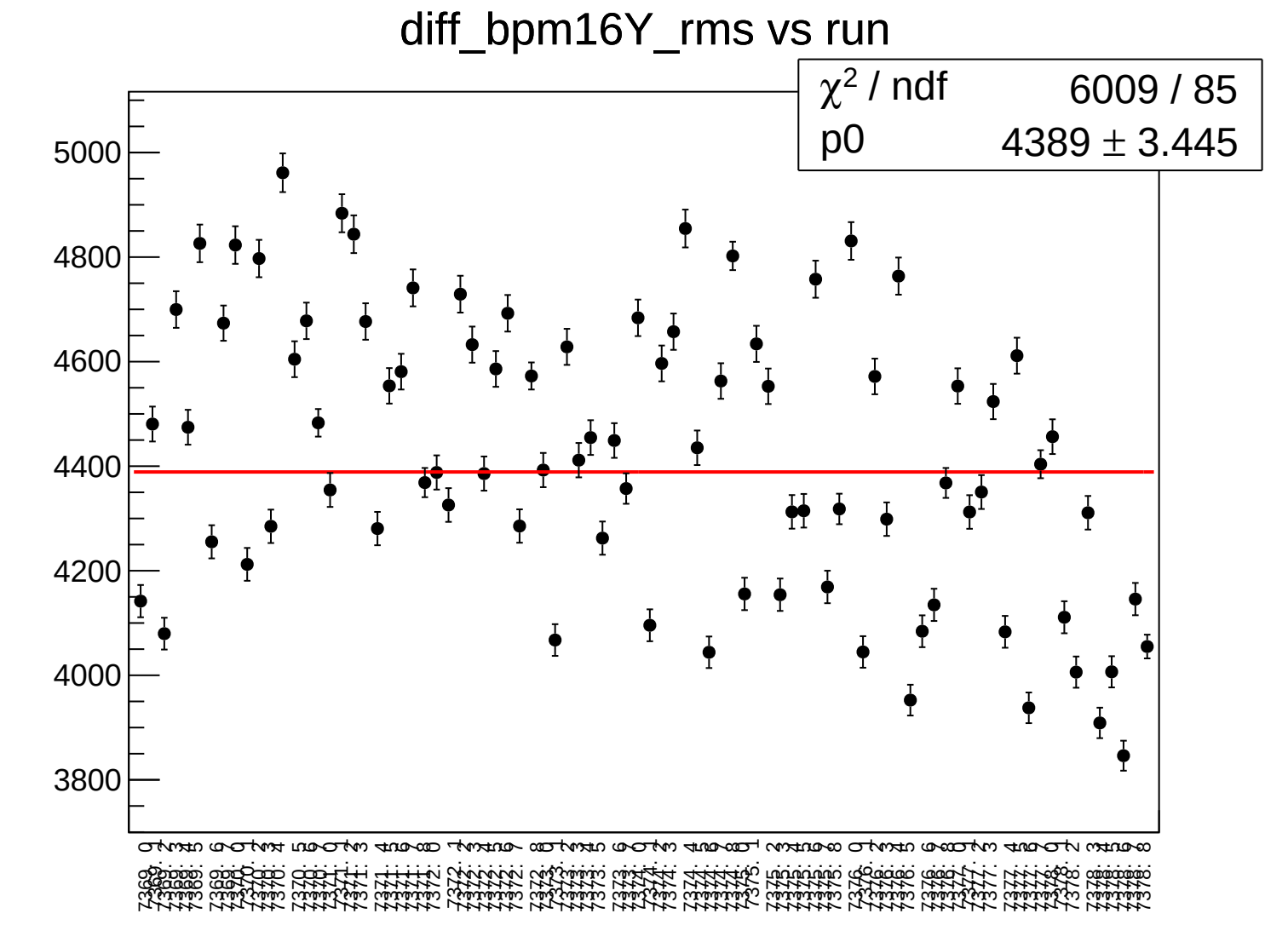

diff_bpm16X_mean vs run
χ² / ndf 86.14 / 85
p0 –0.9825 ± 5.765
pull
Entries 86
Mean 137
Std Dev 150.1

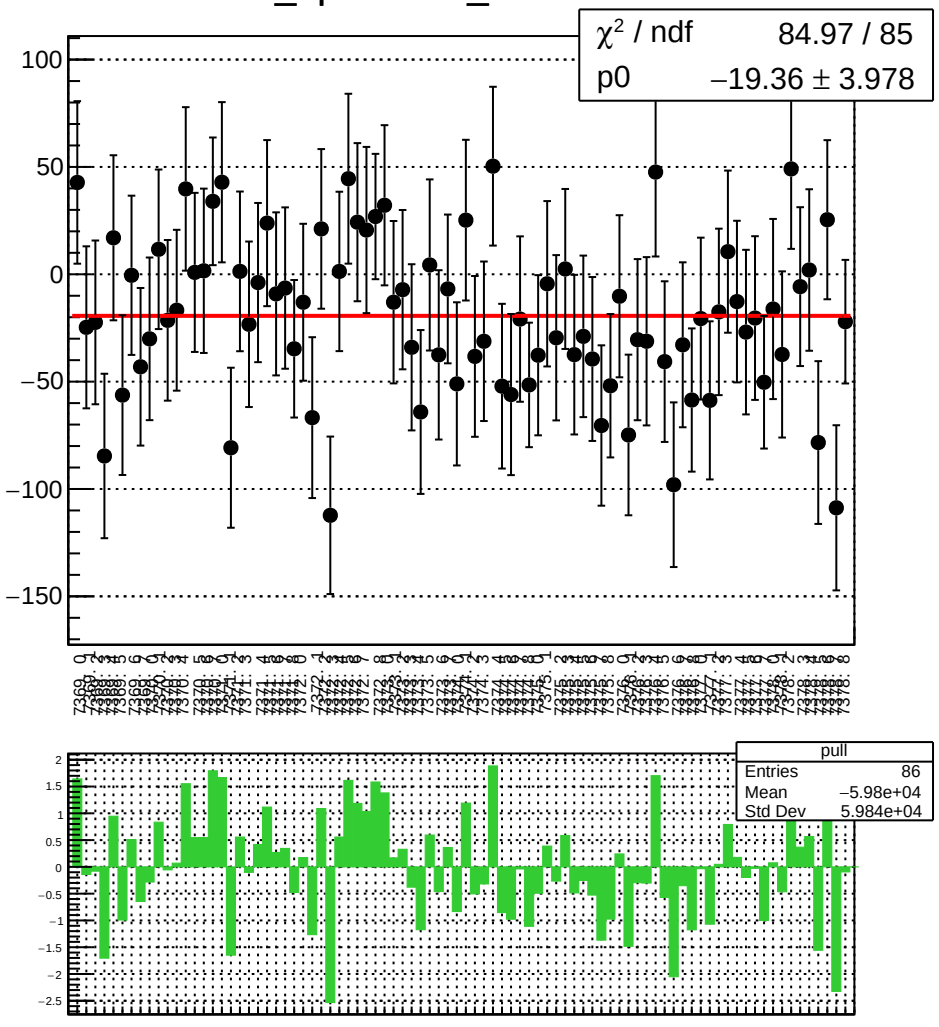

pull1D
Entries 86
Mean 0.004254
Std Dev 1.001

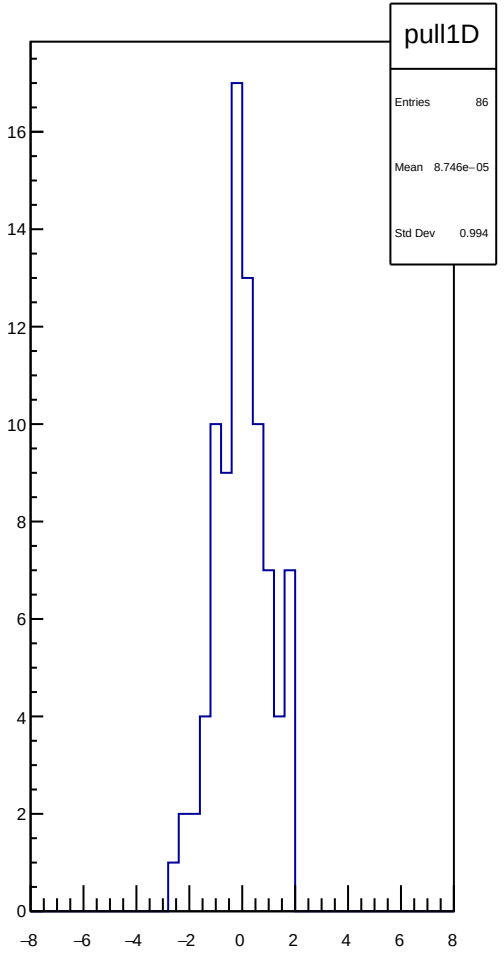

diff_bpm16X_rms vs run
χ^2 / ndf 2705 / 85
p0 5200 ± 4.077
6000
5800
5600
5400
5200
5000
4800

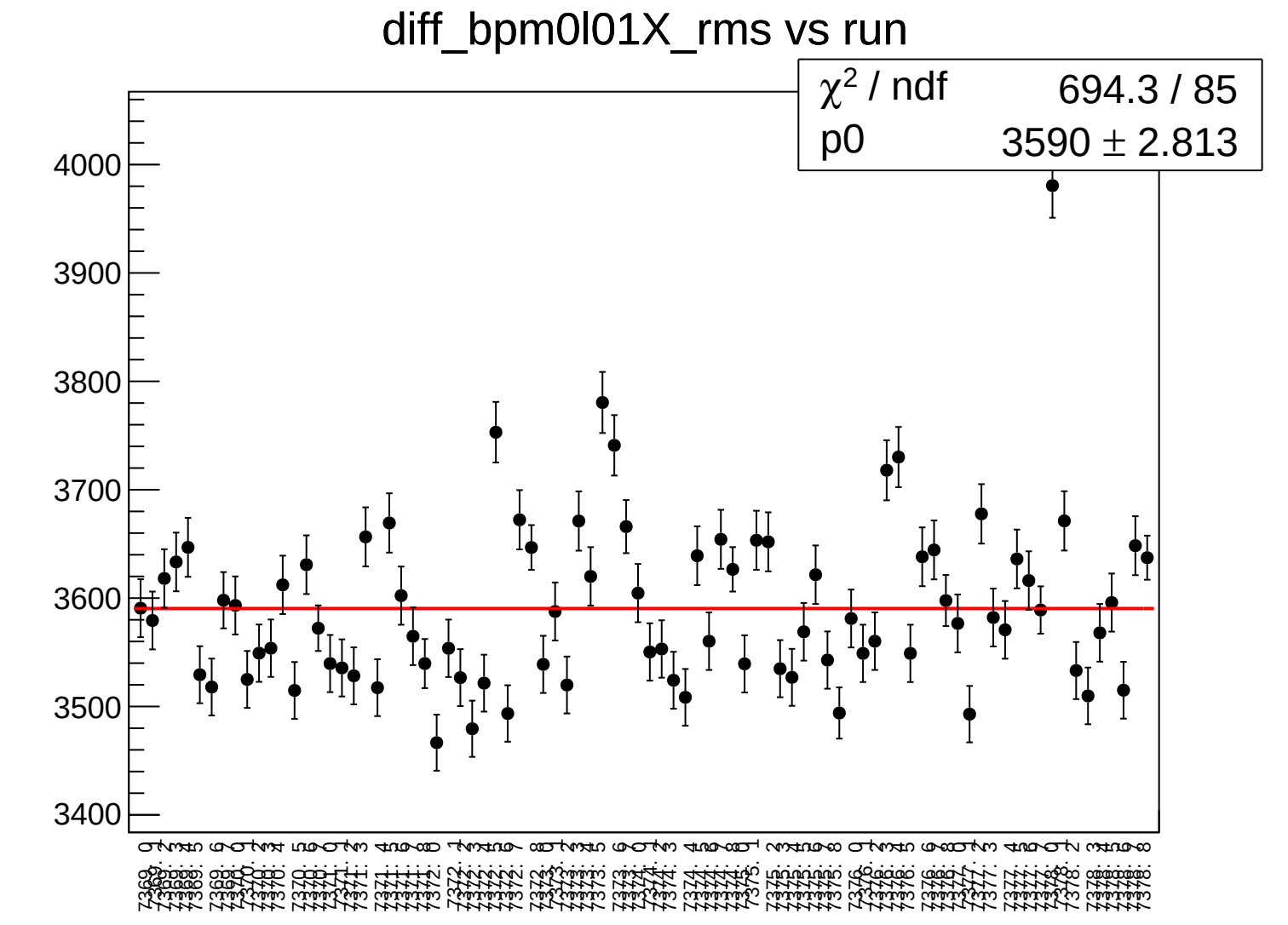

diff_bpm16Y_mean vs run
χ² / ndf 99.19 / 85
p0 −0.6915 ± 4.871
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −778.9
Std Dev 796.7
2
1
0
−1
−2
−3

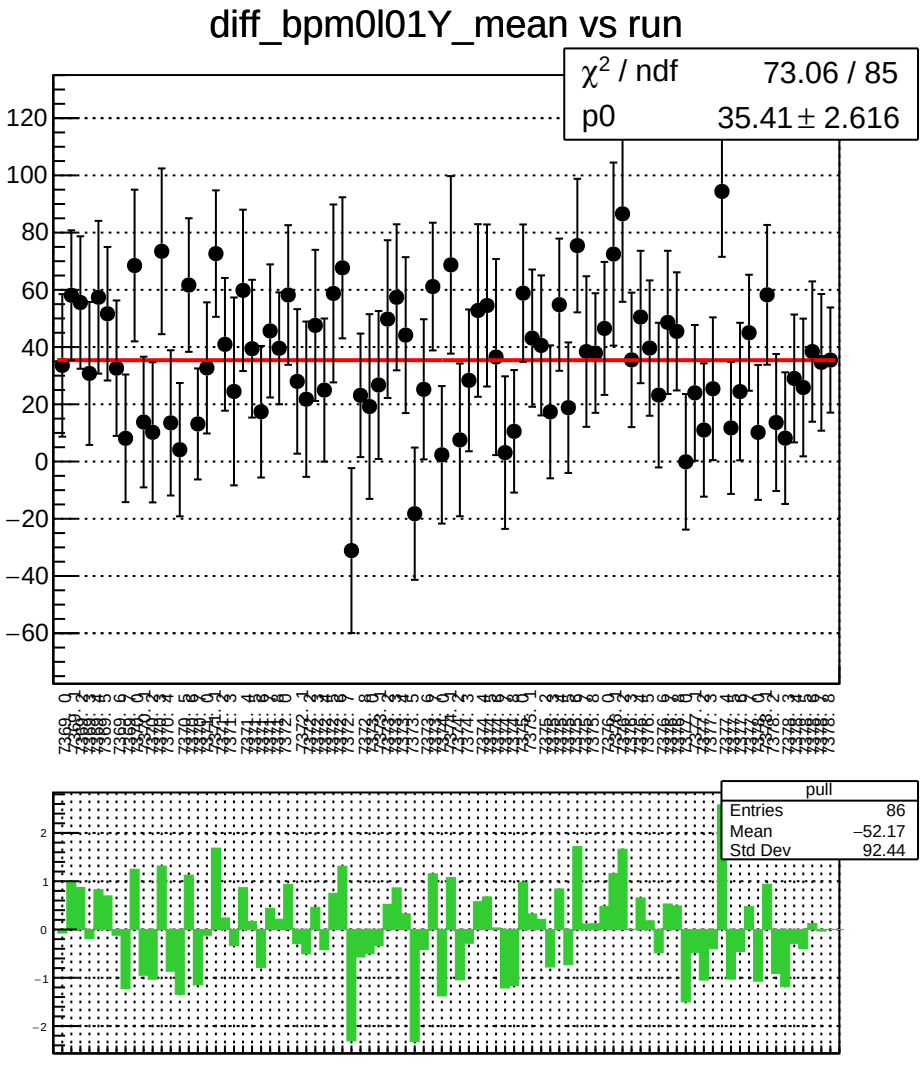

pull1D
Entries 86
Mean −0.003109
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

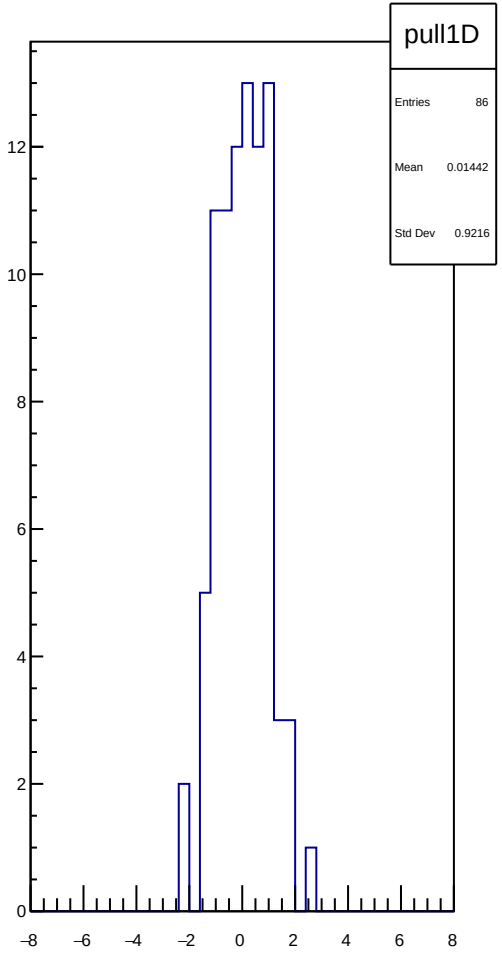

diff_bpm16Y_rms vs run
χ^2 / ndf 6009 / 85
p0 4389 ± 3.445
5000
4800
4600
4400
4200
4000
3800

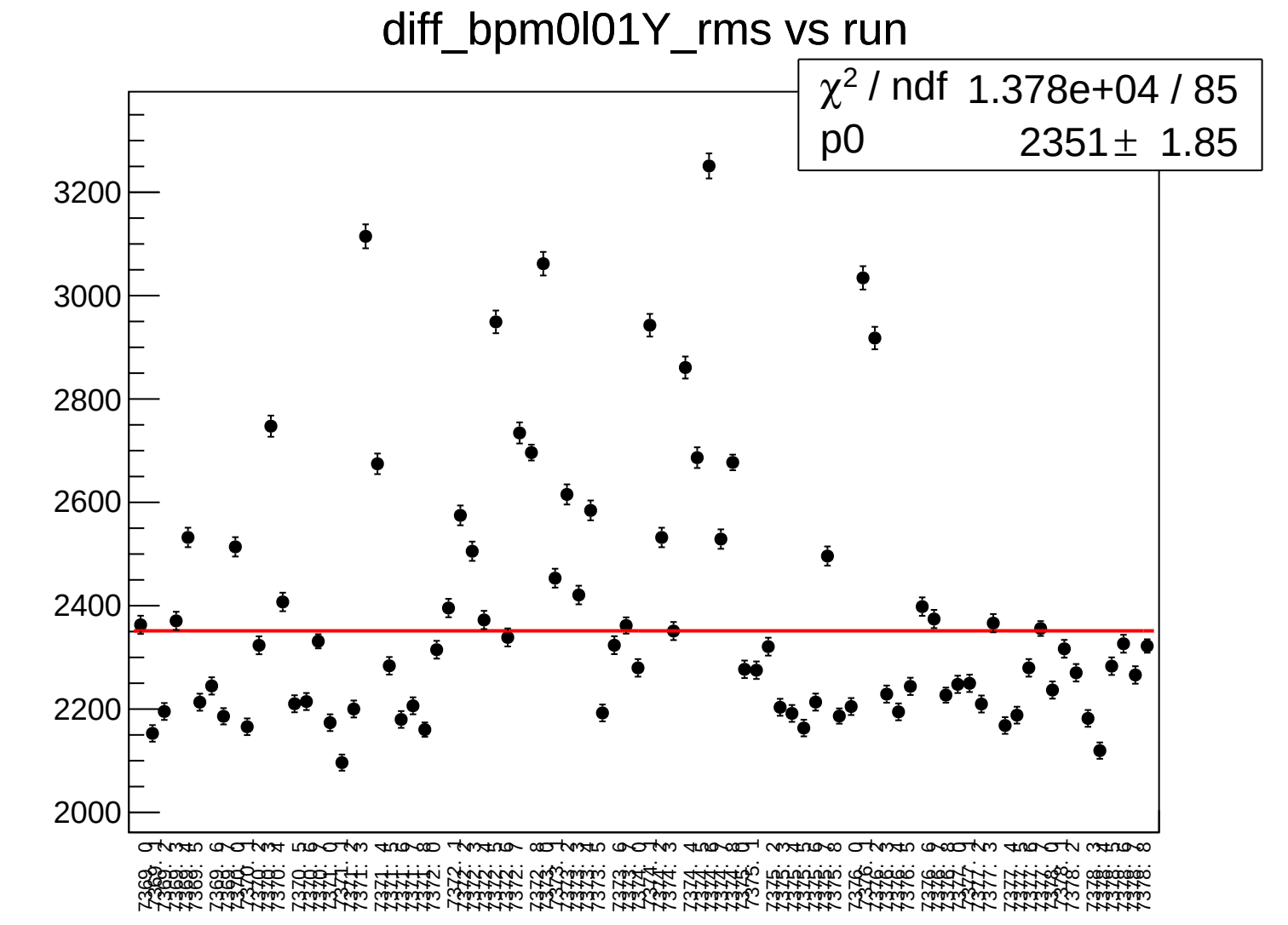

diff_bpm0l01X_mean vs run
χ^2 / ndf 84.97 / 85
p0 −19.36 ± 3.978
pull
Entries 86
Mean −5.98e+04
Std Dev 5.984e+04

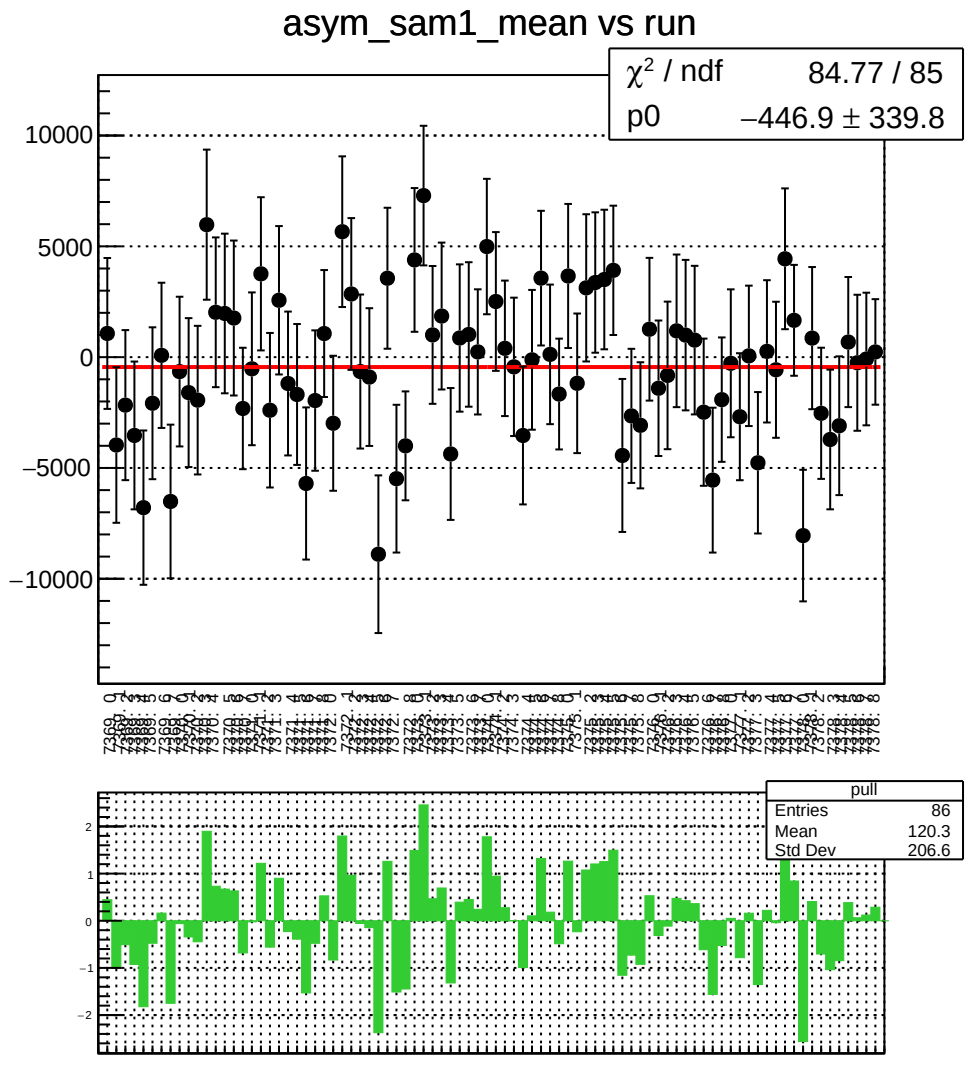

pull1D
Entries 86
Mean 8.746e−05
Std Dev 0.994

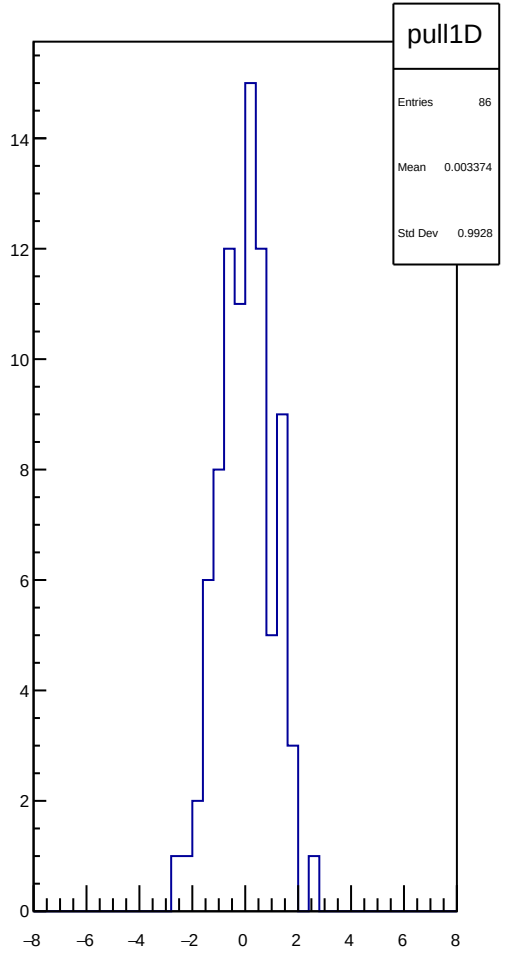

diff_bpm0l01X_rms vs run
χ² / ndf 694.3 / 85
p0 3590 ± 2.813
4000
3900
3800
3700
3600
3500
3400

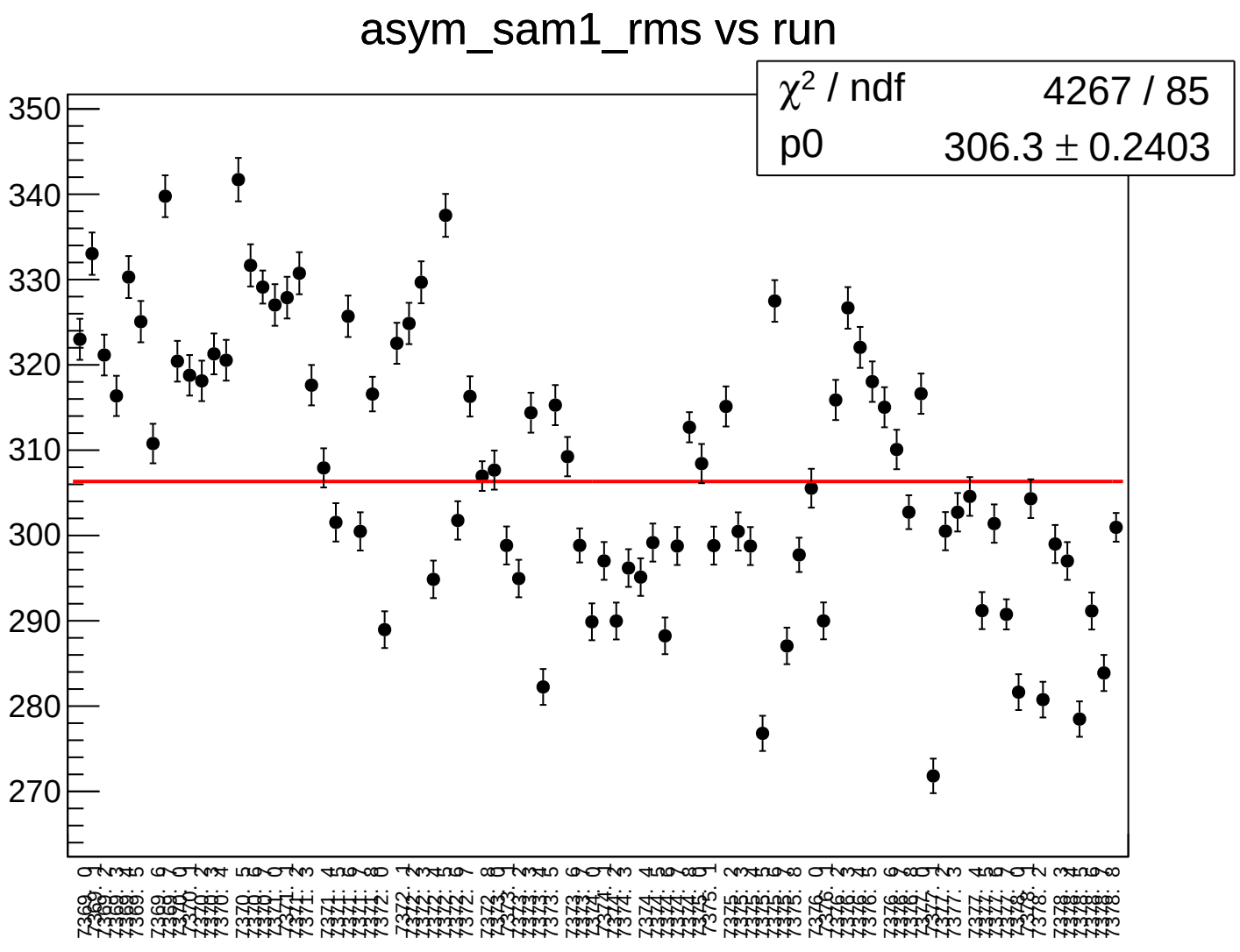

diff_bpm0l01Y_mean vs run
χ^2 / ndf 73.06 / 85
p0 35.41 ± 2.616
pull
Entries 86
Mean −52.17
Std Dev 92.44

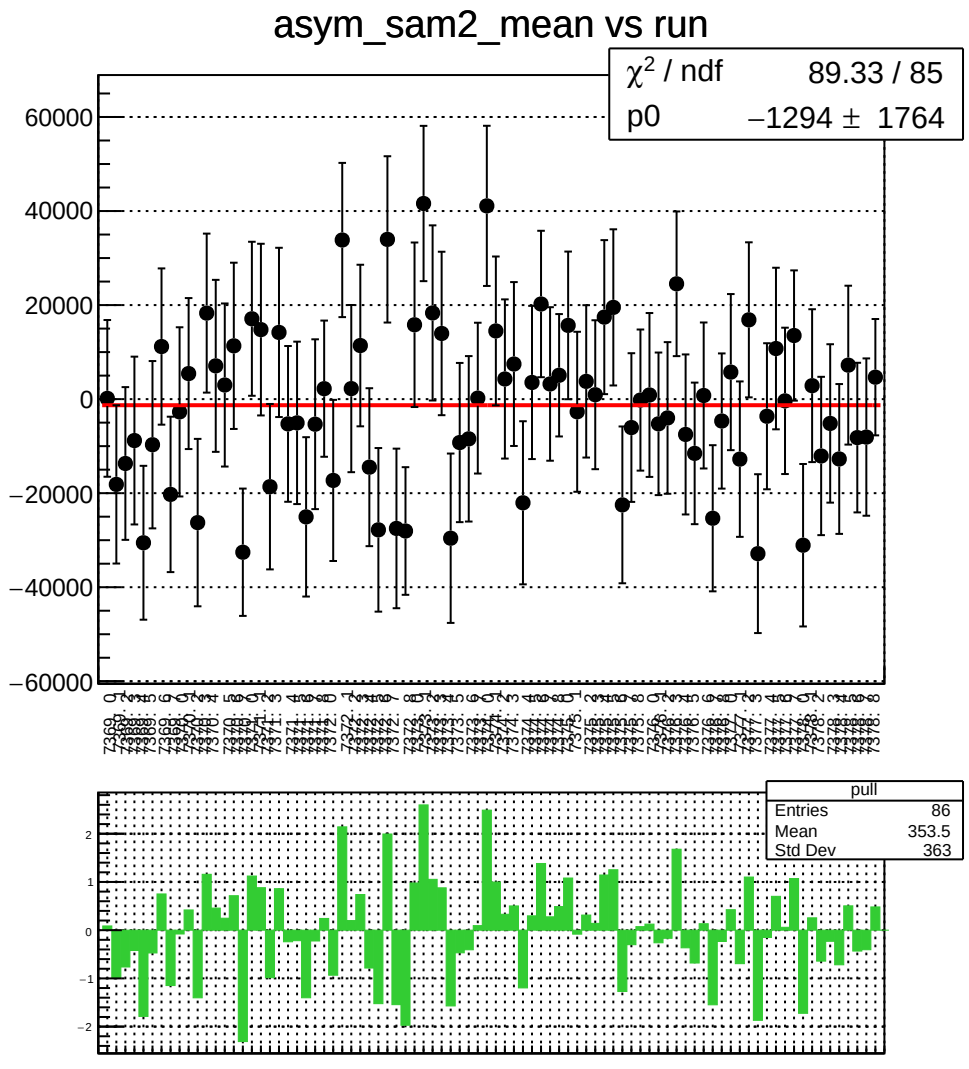

pull1D
Entries 86
Mean 0.01442
Std Dev 0.9216

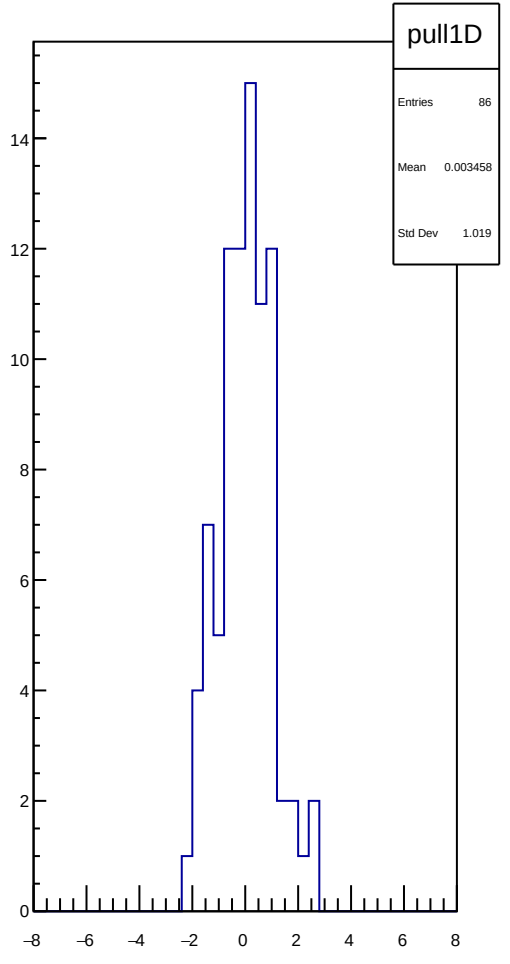

diff_bpm0l01Y_rms vs run
χ² / ndf 1.378e+04 / 85
p0 2351 ± 1.85
3200
3000
2800
2600
2400
2200
2000

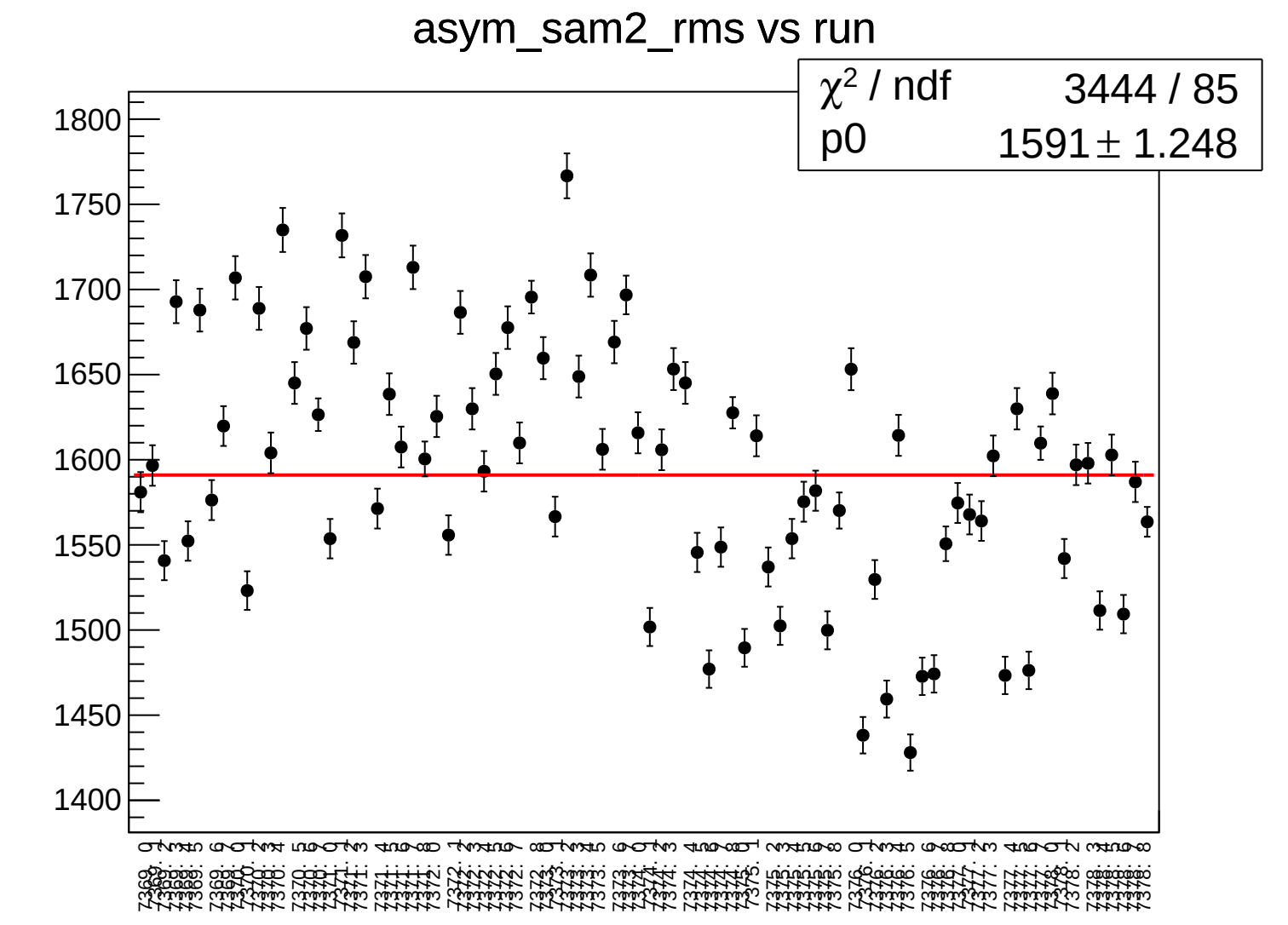

asym_sam1_mean vs run
χ² / ndf 84.77 / 85
p0 −446.9 ± 339.8
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 120.3
Std Dev 206.6
2
1
0
−1
−2

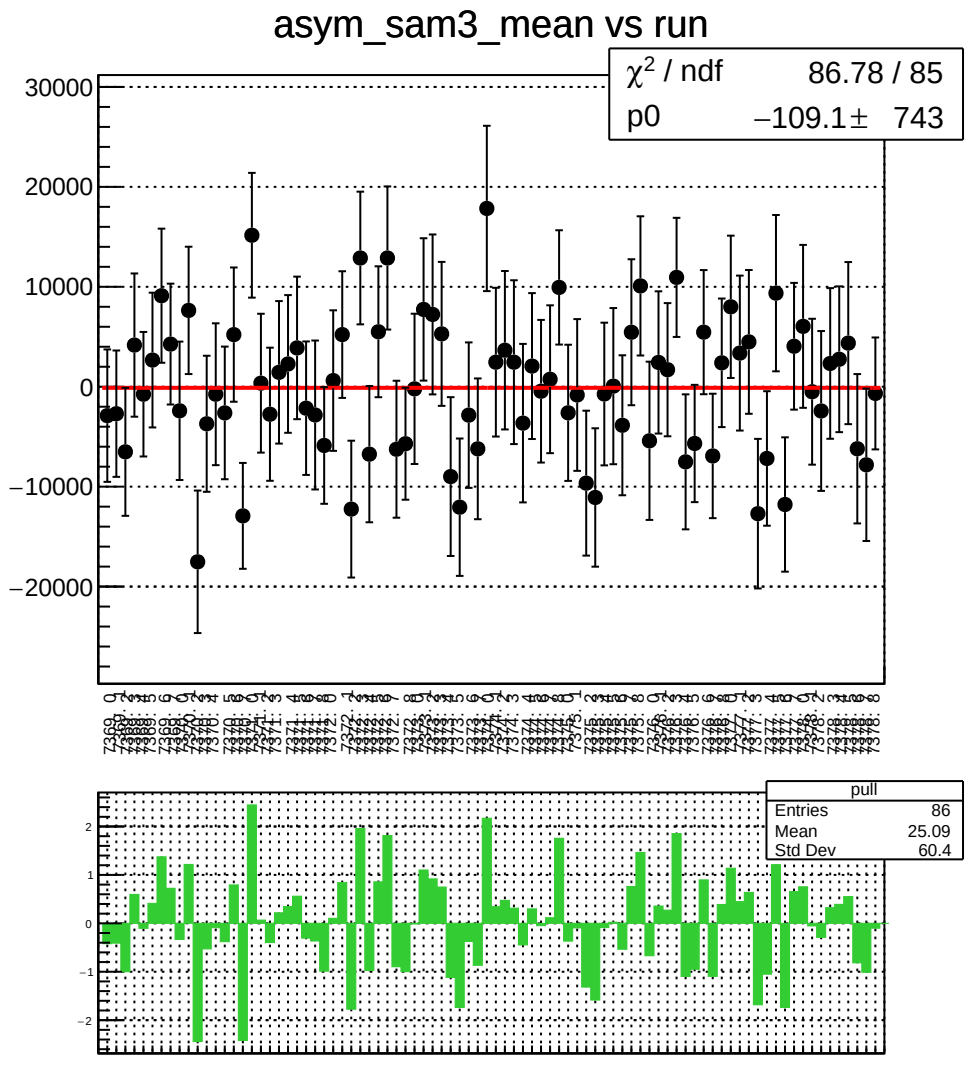

pull1D
Entries 86
Mean 0.003374
Std Dev 0.9928
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

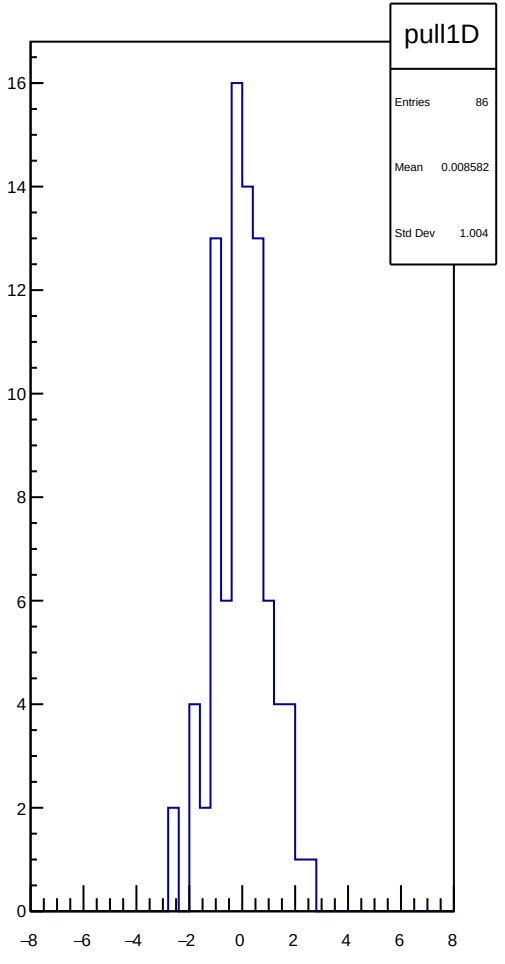

asym_sam1_rms vs run
χ² / ndf 4267 / 85
p0 306.3 ± 0.2403
350
340
330
320
310
300
290
280
270

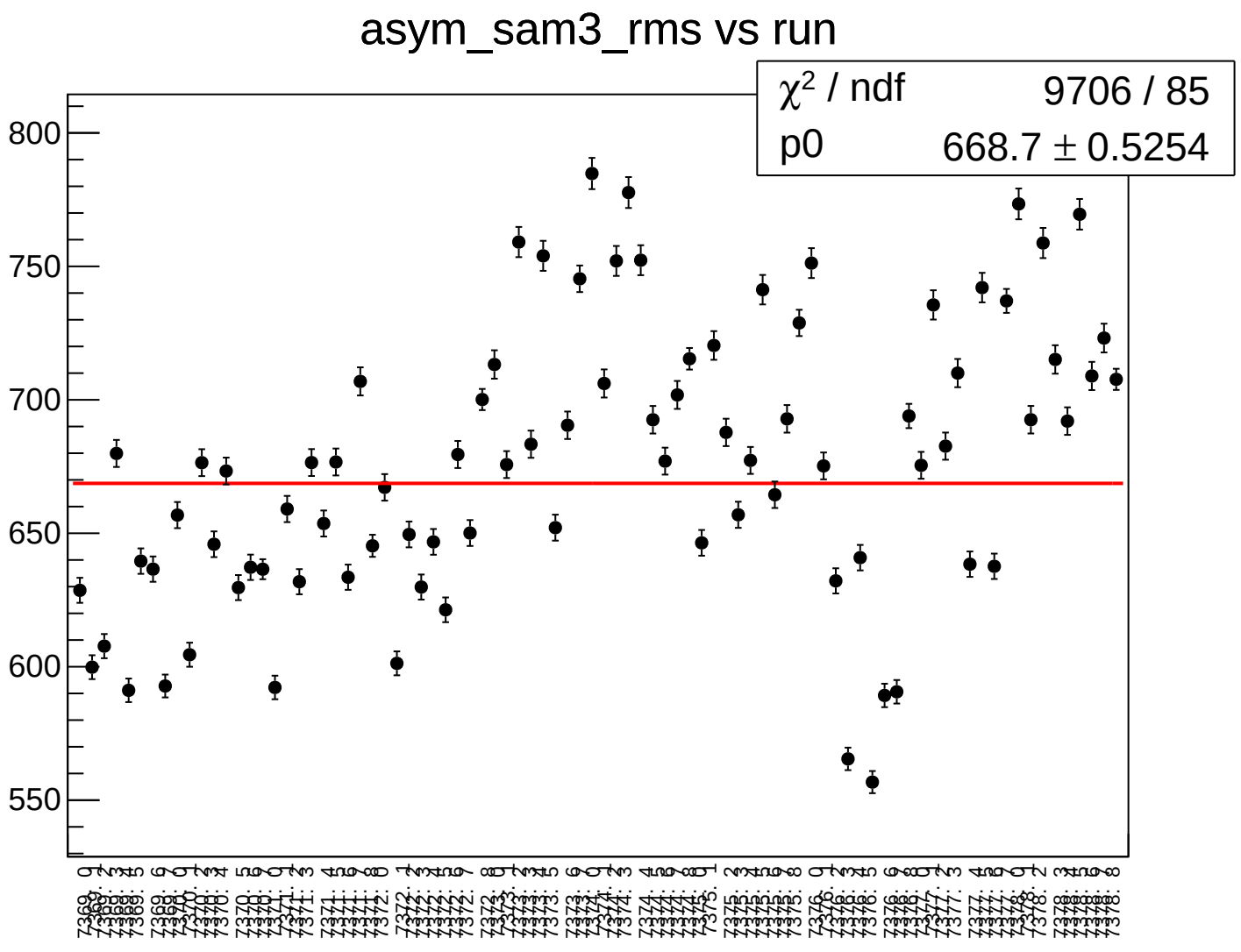

asym_sam2_mean vs run
χ² / ndf 89.33 / 85
p0 −1294 ± 1764
pull
Entries 86
Mean 353.5
Std Dev 363

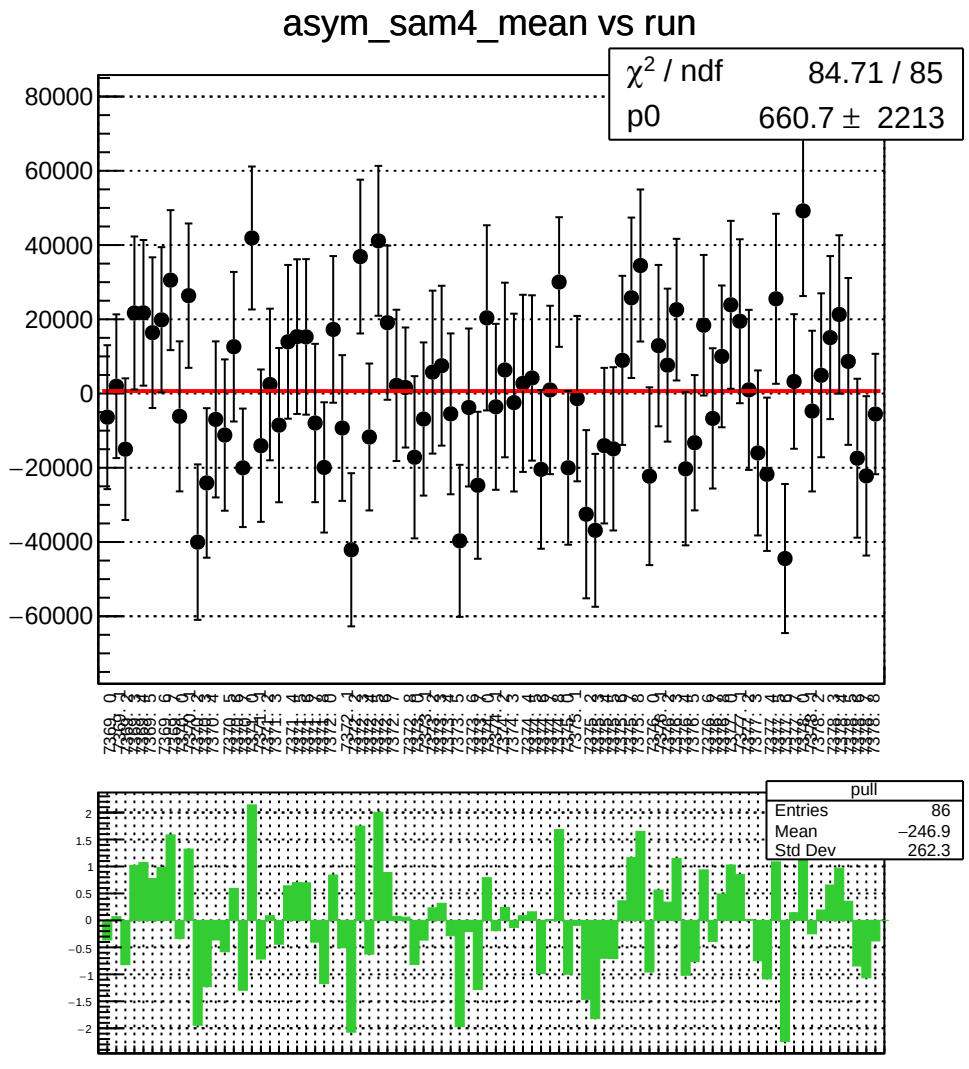

pull1D
Entries 86
Mean 0.003458
Std Dev 1.019

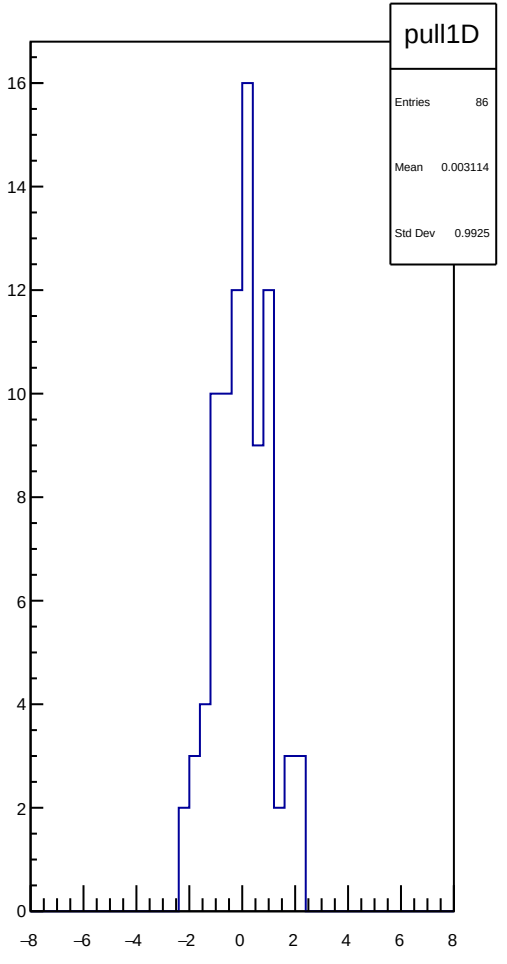

asym_sam2_rms vs run
χ² / ndf 3444 / 85
p0 1591 ± 1.248
1800
1750
1700
1650
1600
1550
1500
1450
1400

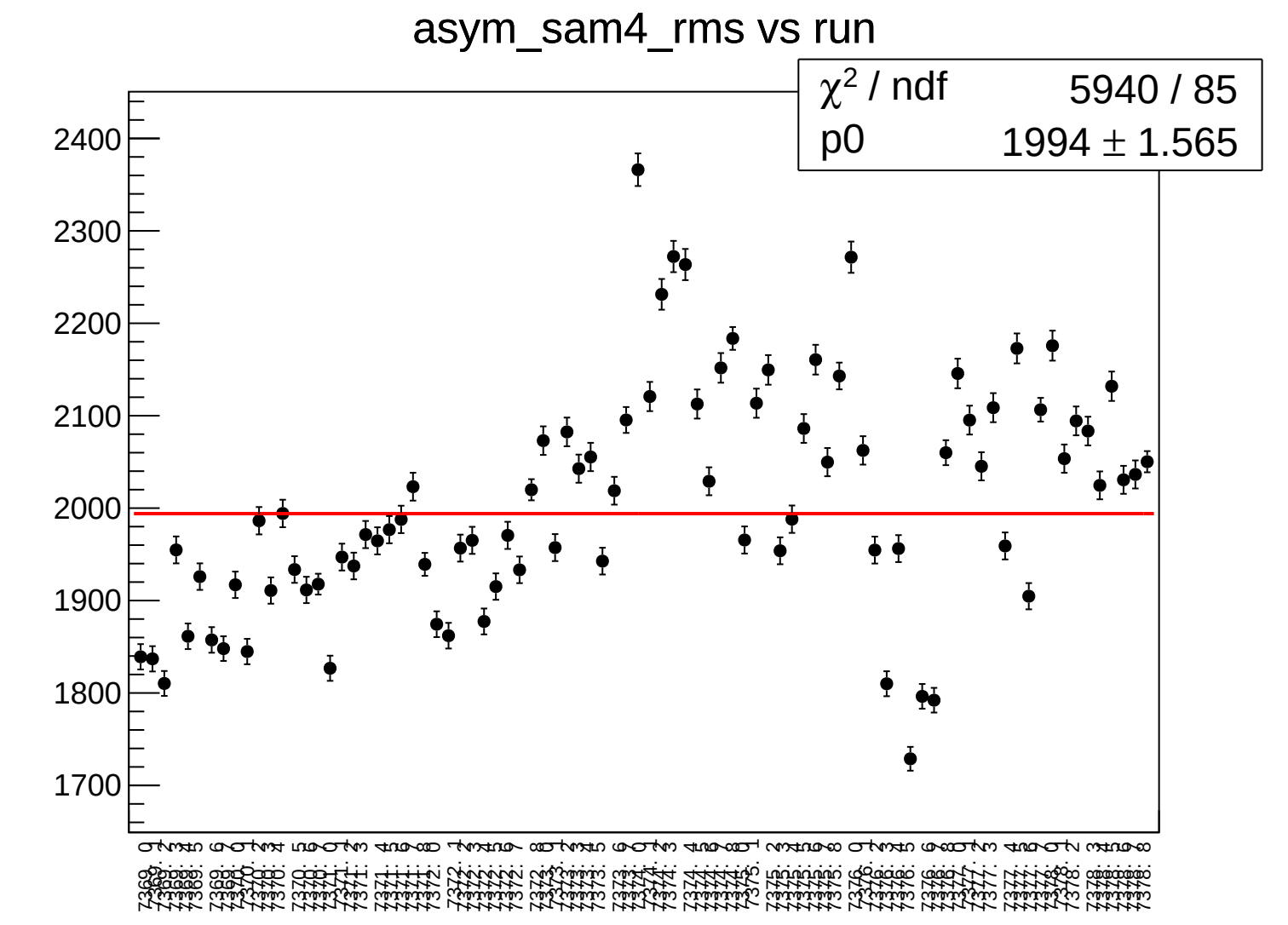

asym_sam3_mean vs run
χ² / ndf 86.78 / 85
p0 −109.1± 743
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 25.09
Std Dev 60.4
2
1
0
−1
−2

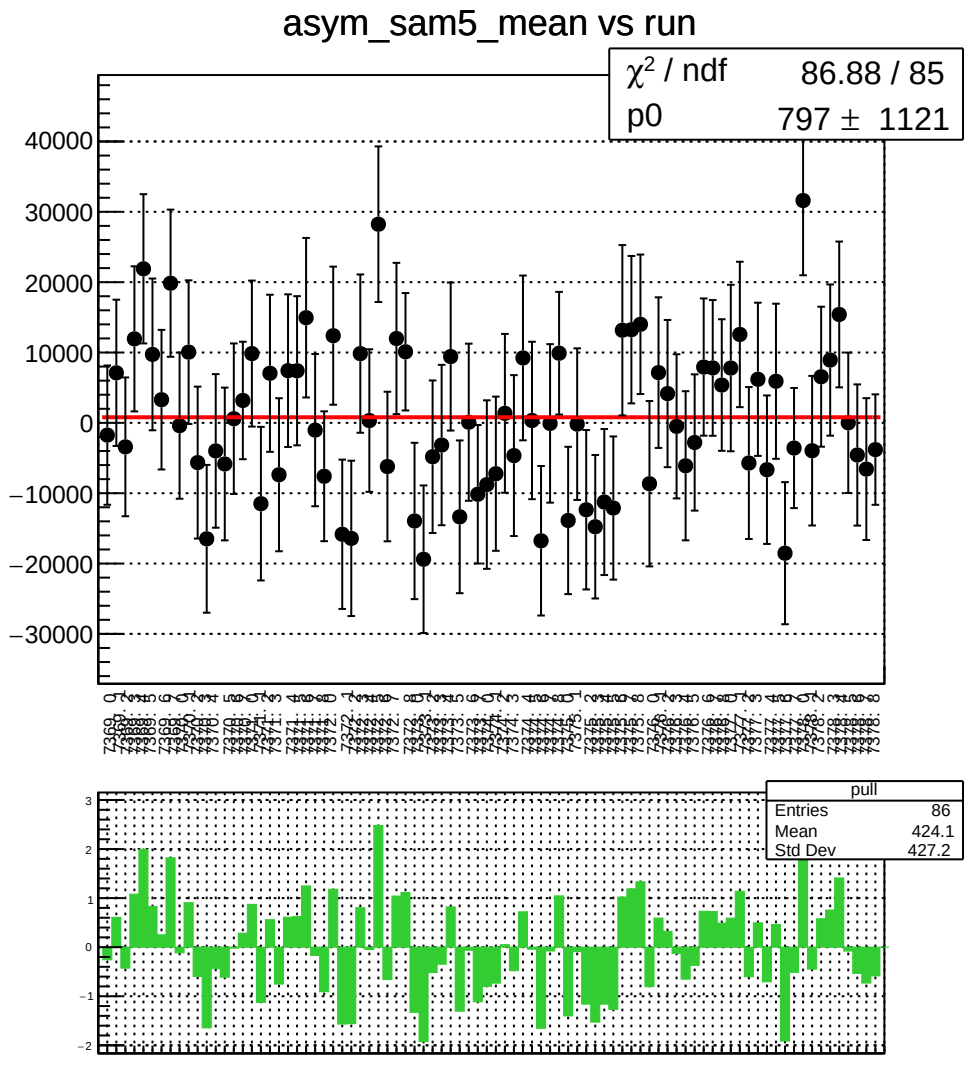

pull1D
Entries 86
Mean 0.008582
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

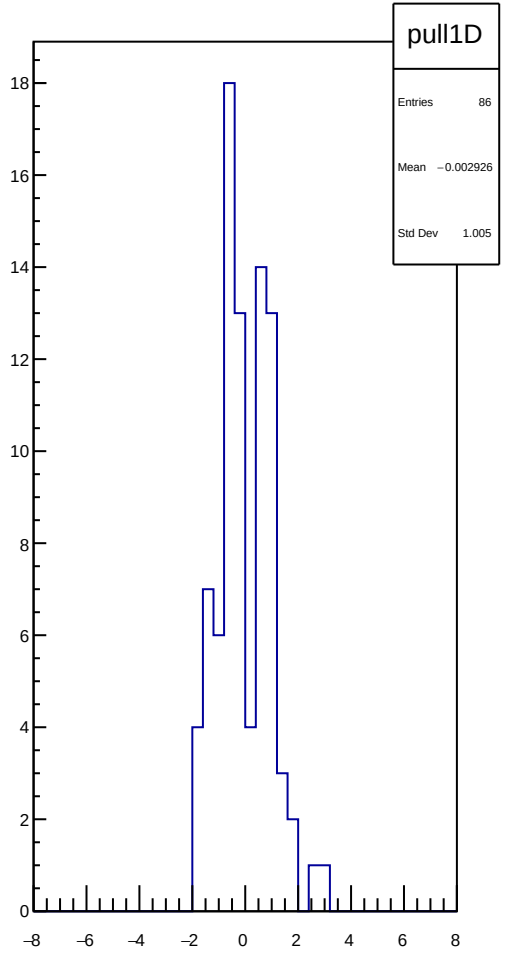

asym_sam3_rms vs run
χ² / ndf 9706 / 85
p0 668.7 ± 0.5254
800
750
700
650
600
550

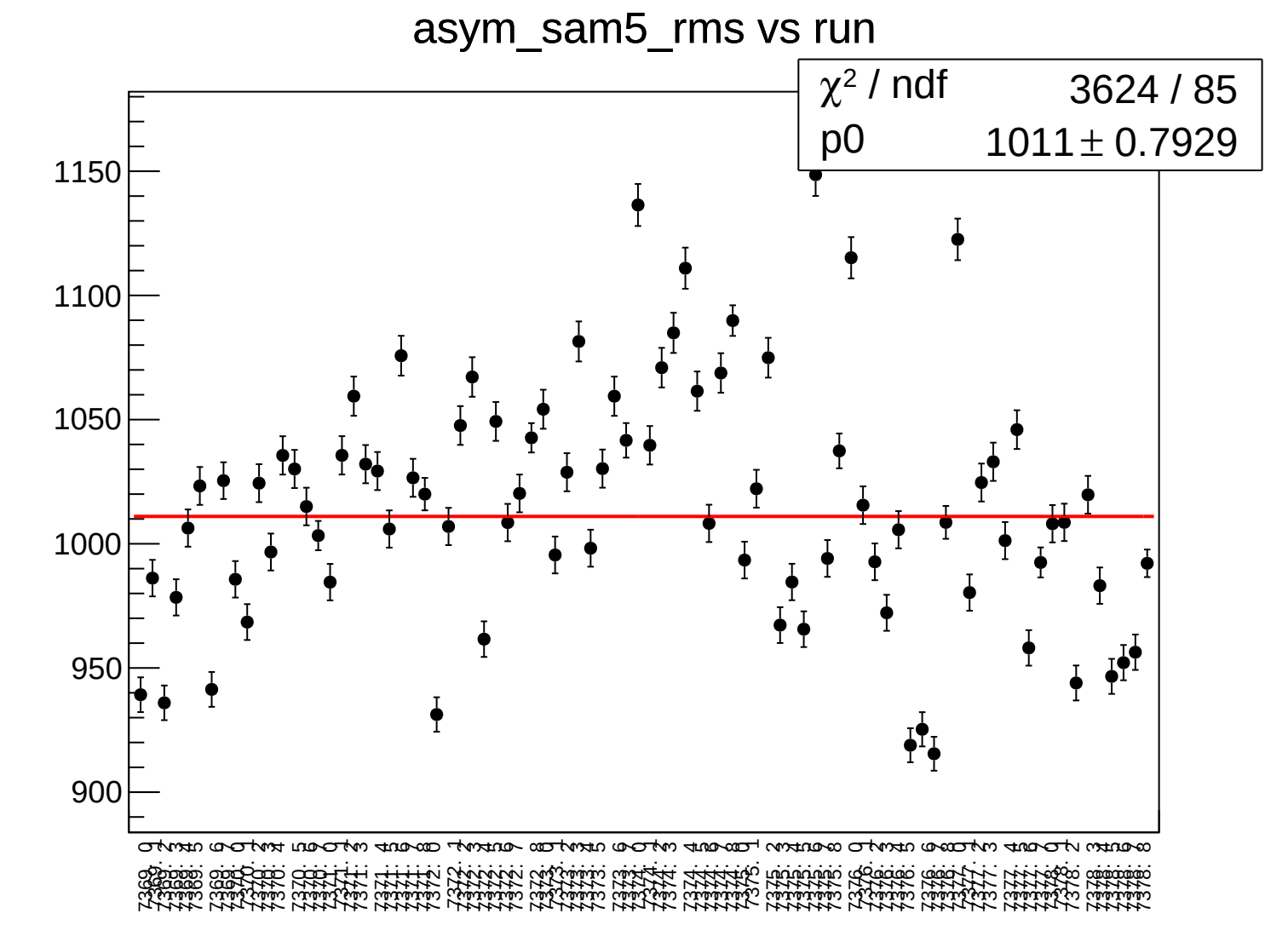

asym_sam4_mean vs run
χ² / ndf 84.71 / 85
p0 660.7 ± 2213
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −246.9
Std Dev 262.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

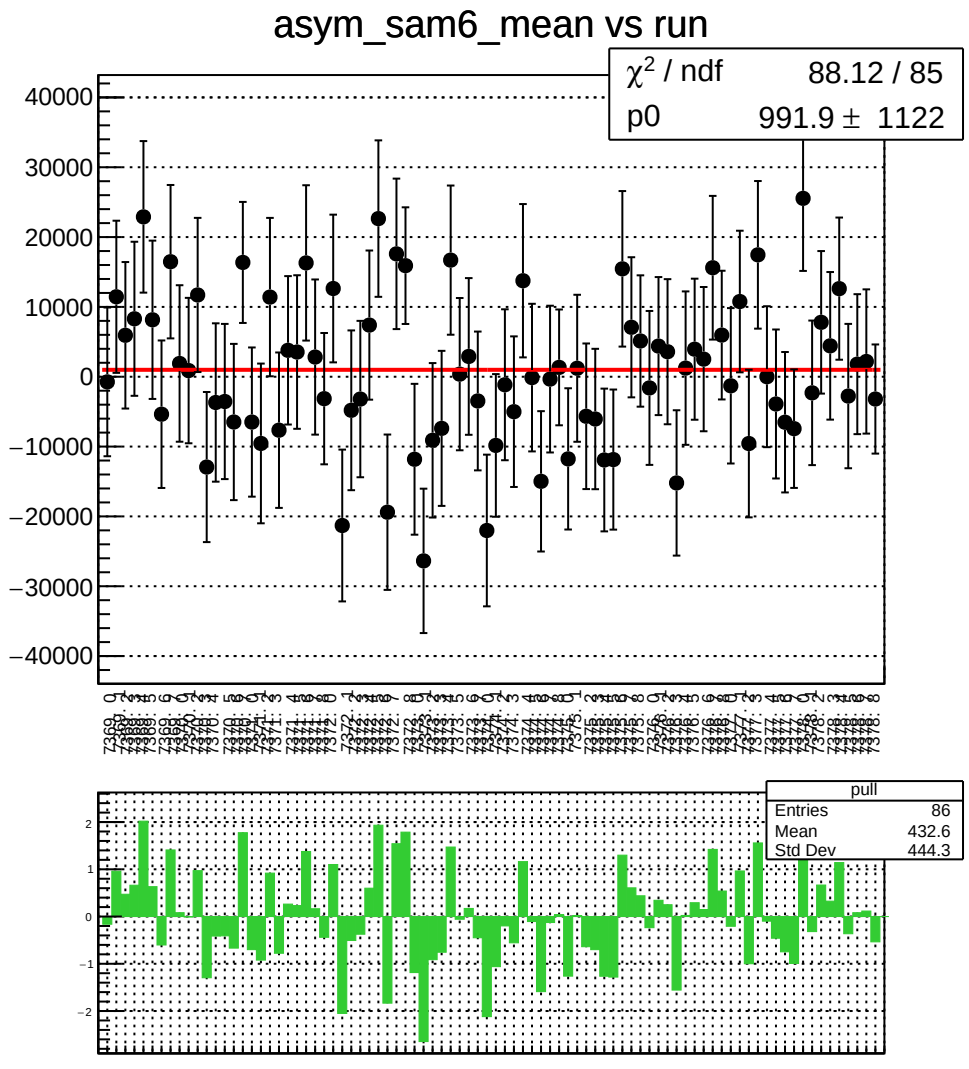

pull1D
Entries 86
Mean 0.003114
Std Dev 0.9925
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

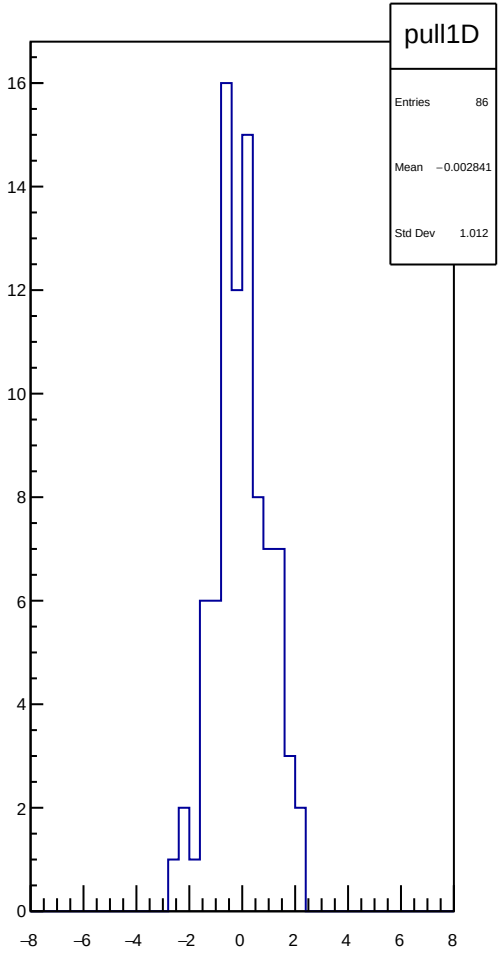

asym_sam4_rms vs run
χ² / ndf 5940 / 85
p0 1994 ± 1.565
2400
2300
2200
2100
2000
1900
1800
1700

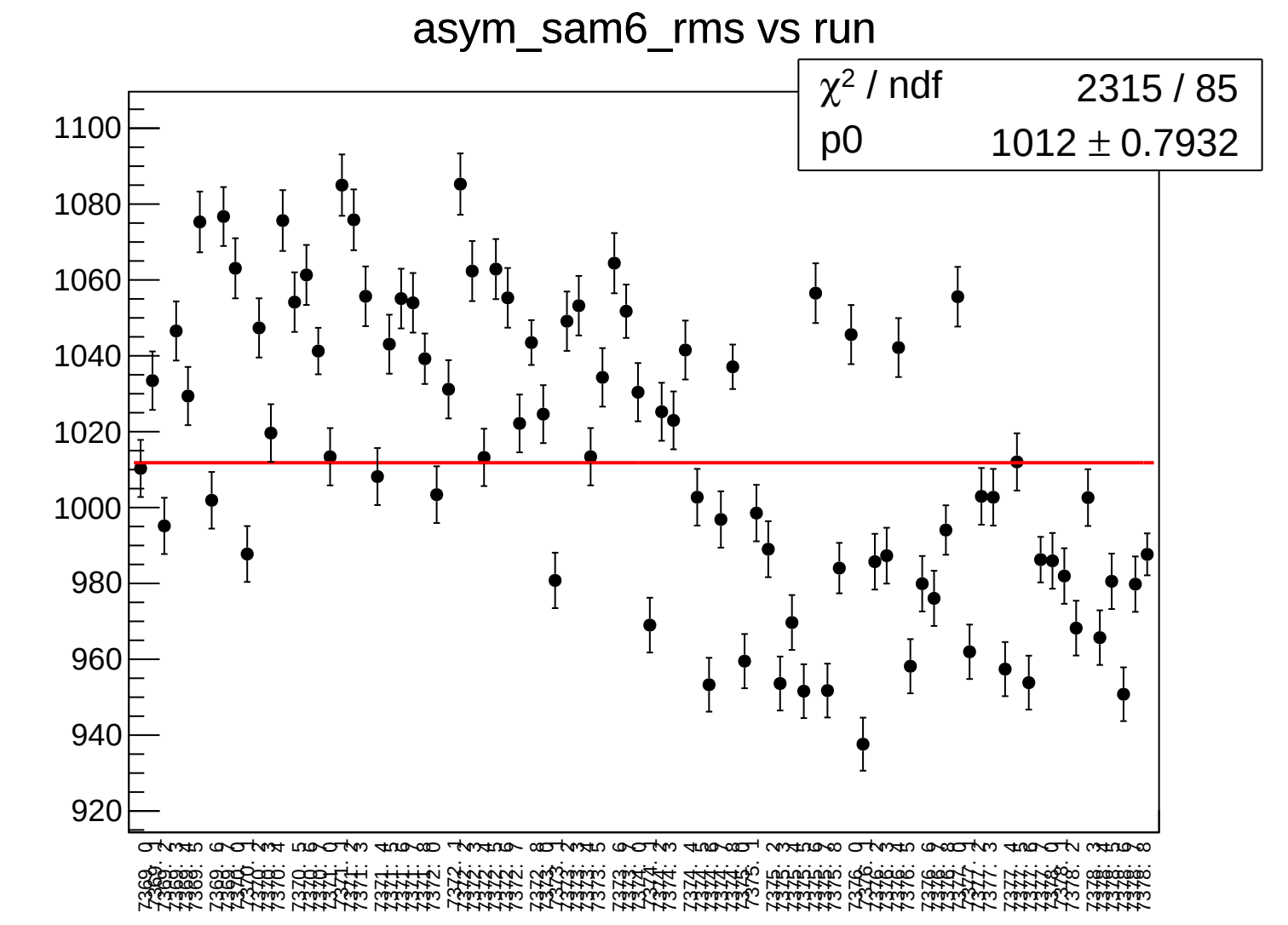

asym_sam5_mean vs run
χ² / ndf 86.88 / 85
p0 797 ± 1121
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 424.1
Std Dev 427.2
3
2
1
0
−1
−2

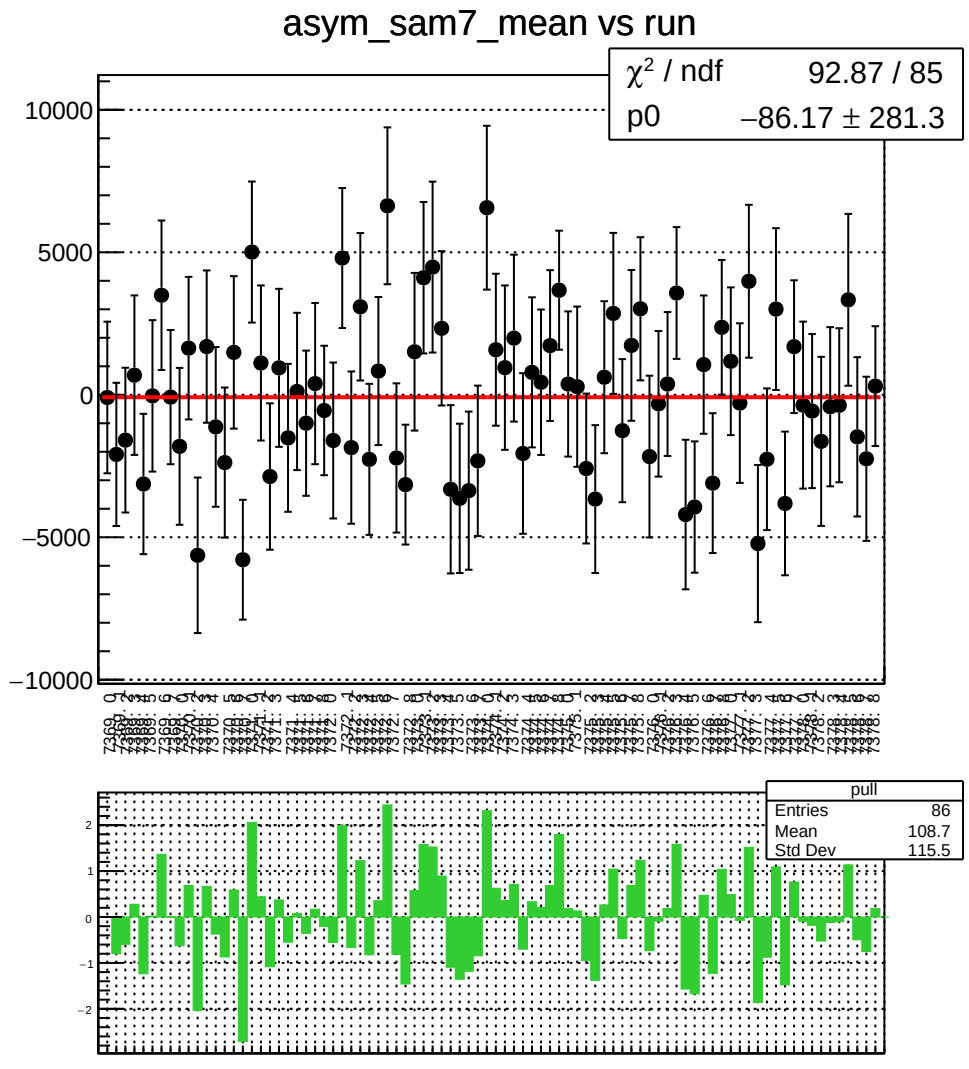

pull1D
Entries 86
Mean −0.002926
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

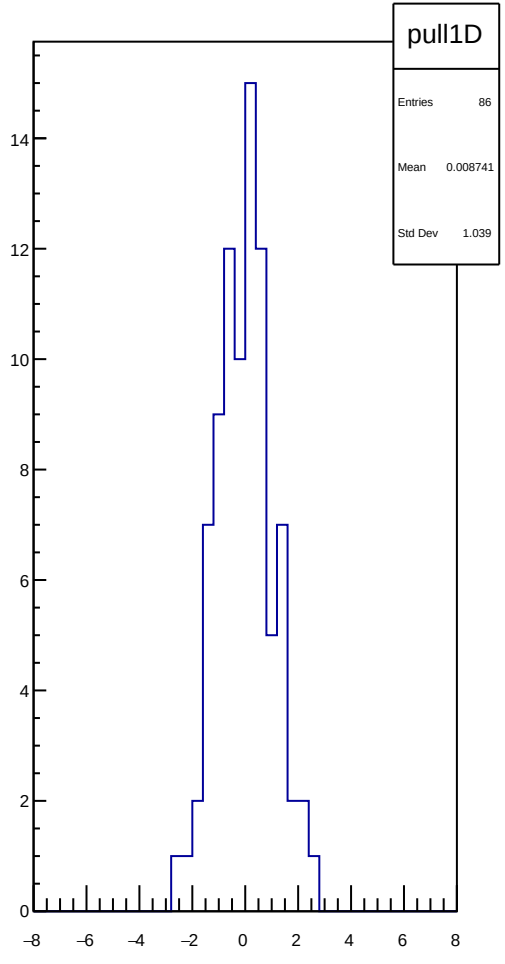

asym_sam5_rms vs run
χ² / ndf 3624 / 85
p0 1011 ± 0.7929
1150
1100
1050
1000
950
900

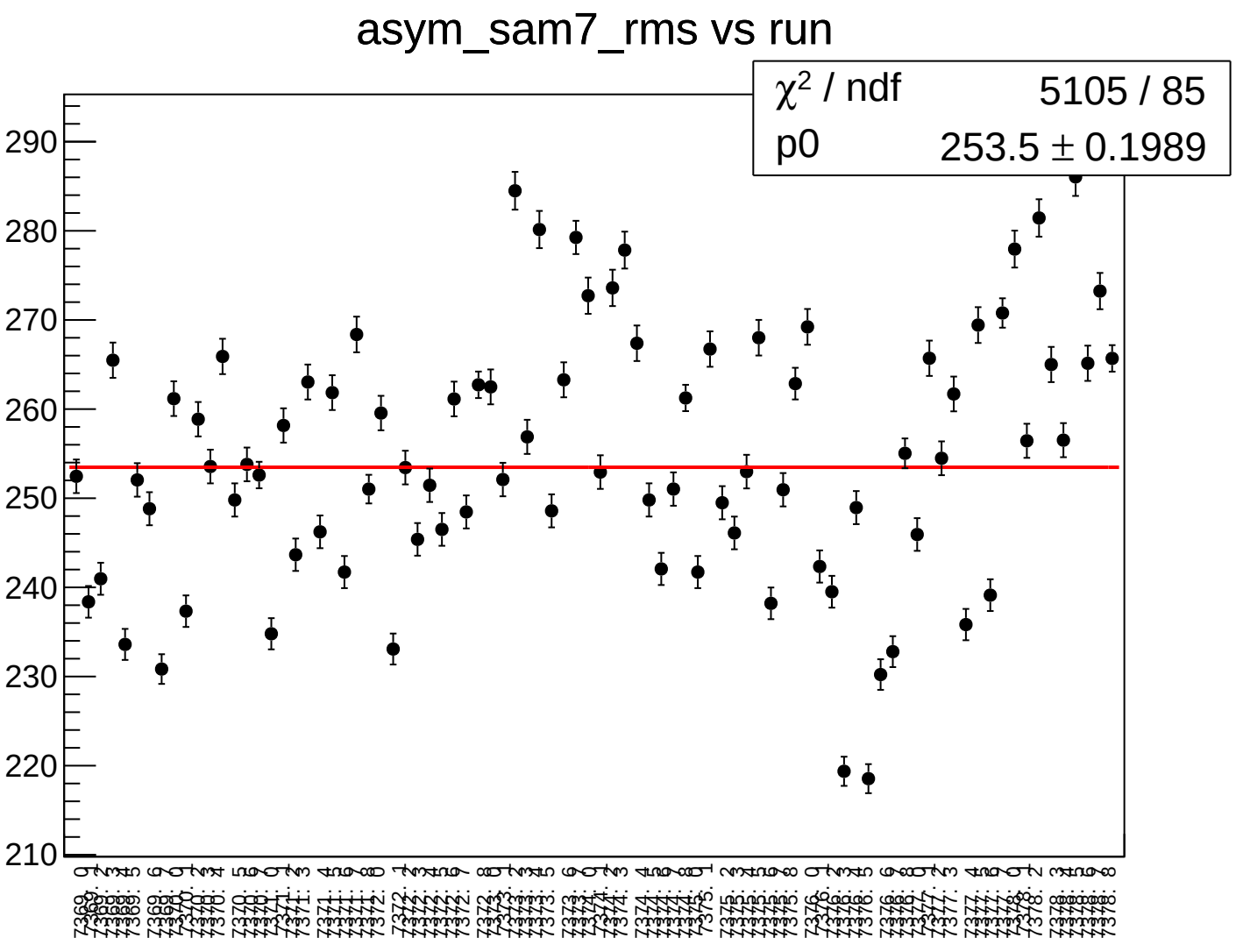

asym_sam6_mean vs run
χ² / ndf 88.12 / 85
p0 991.9 ± 1122
pull
Entries 86
Mean 432.6
Std Dev 444.3

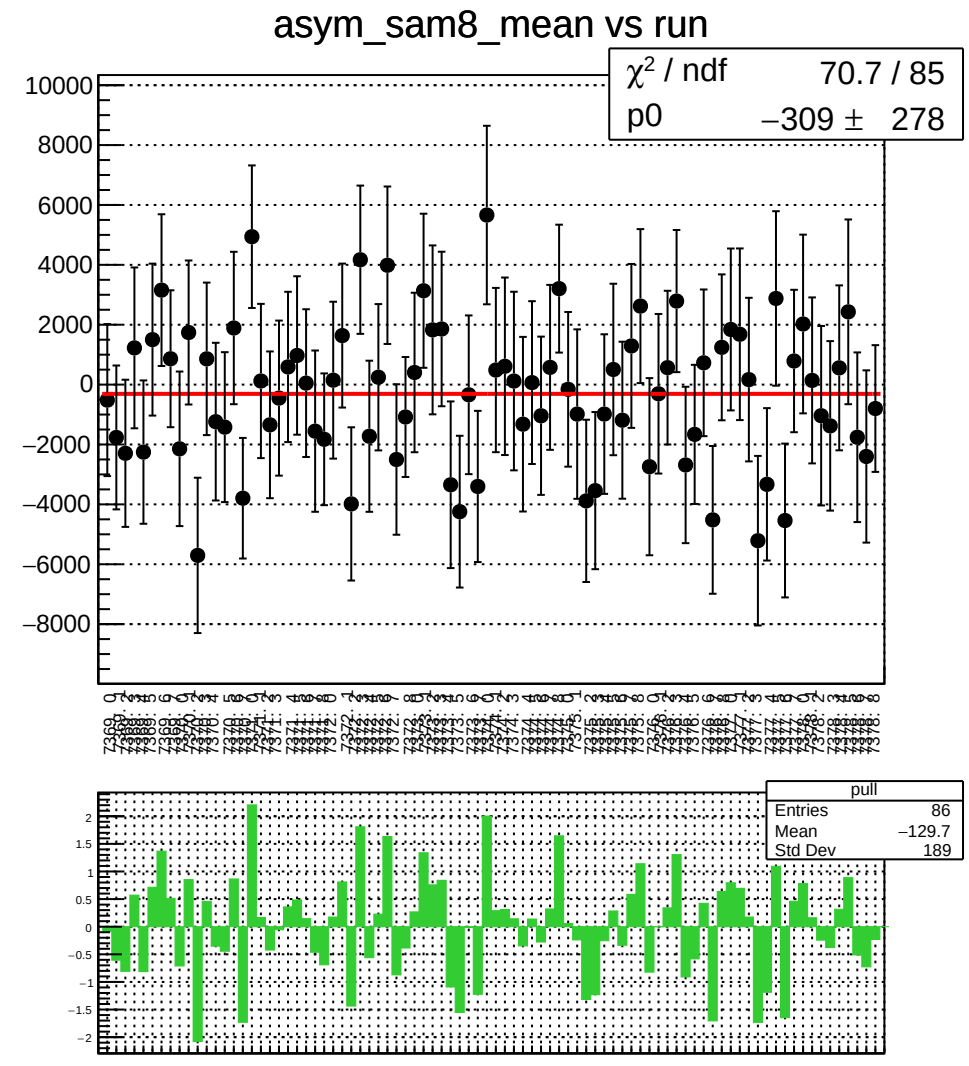

pull1D
Entries 86
Mean −0.002841
Std Dev 1.012

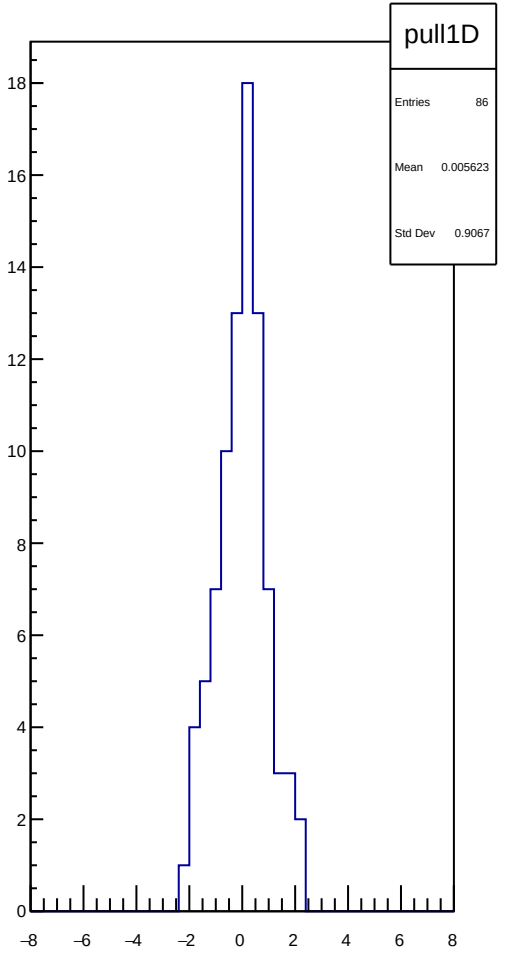

asym_sam6_rms vs run
χ² / ndf 2315 / 85
p0 1012 ± 0.7932
1100
1080
1060
1040
1020
1000
980
960
940
920

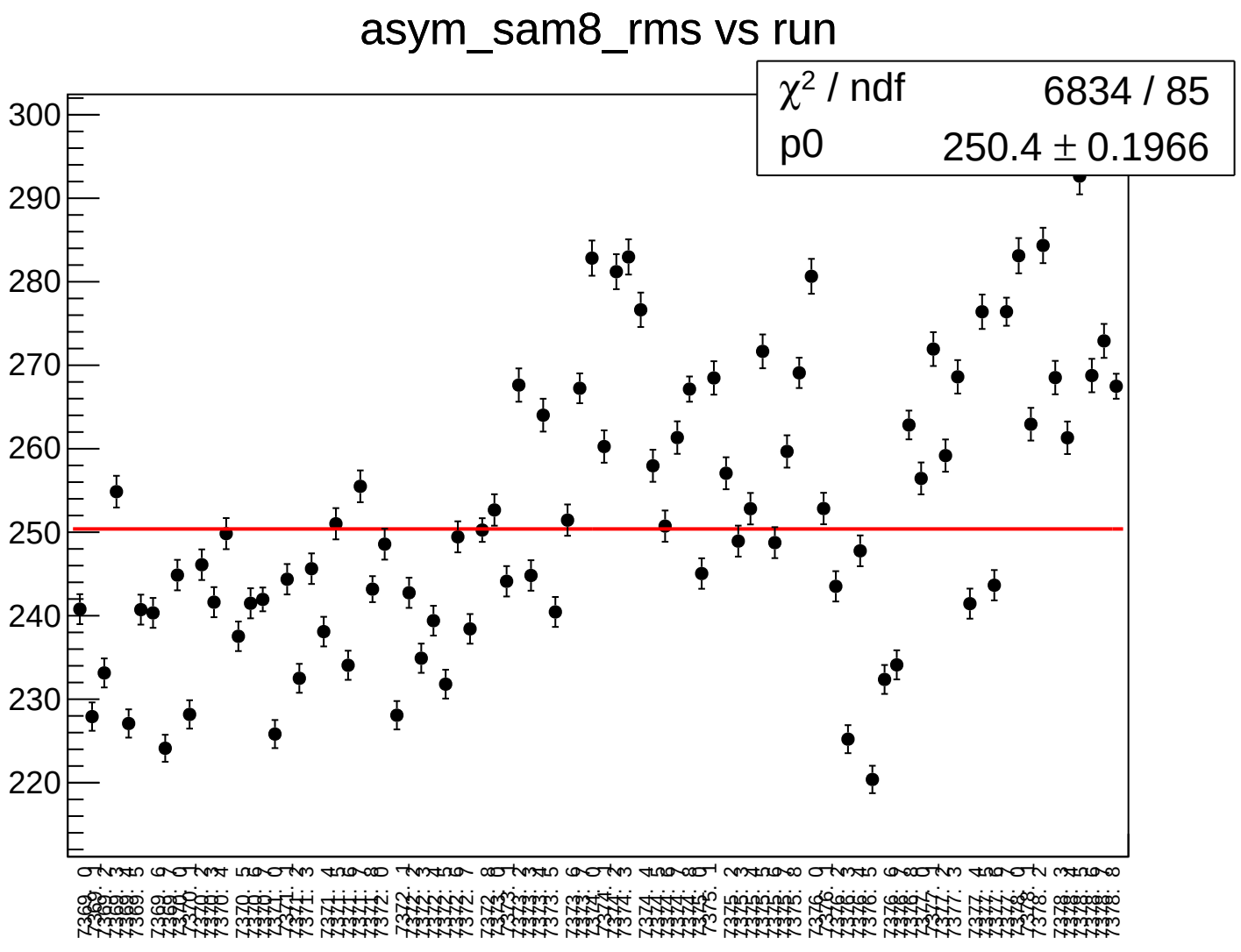

asym_sam7_mean vs run
χ² / ndf 92.87 / 85
p0 −86.17 ± 281.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 108.7
Std Dev 115.5
2
1
0
−1
−2

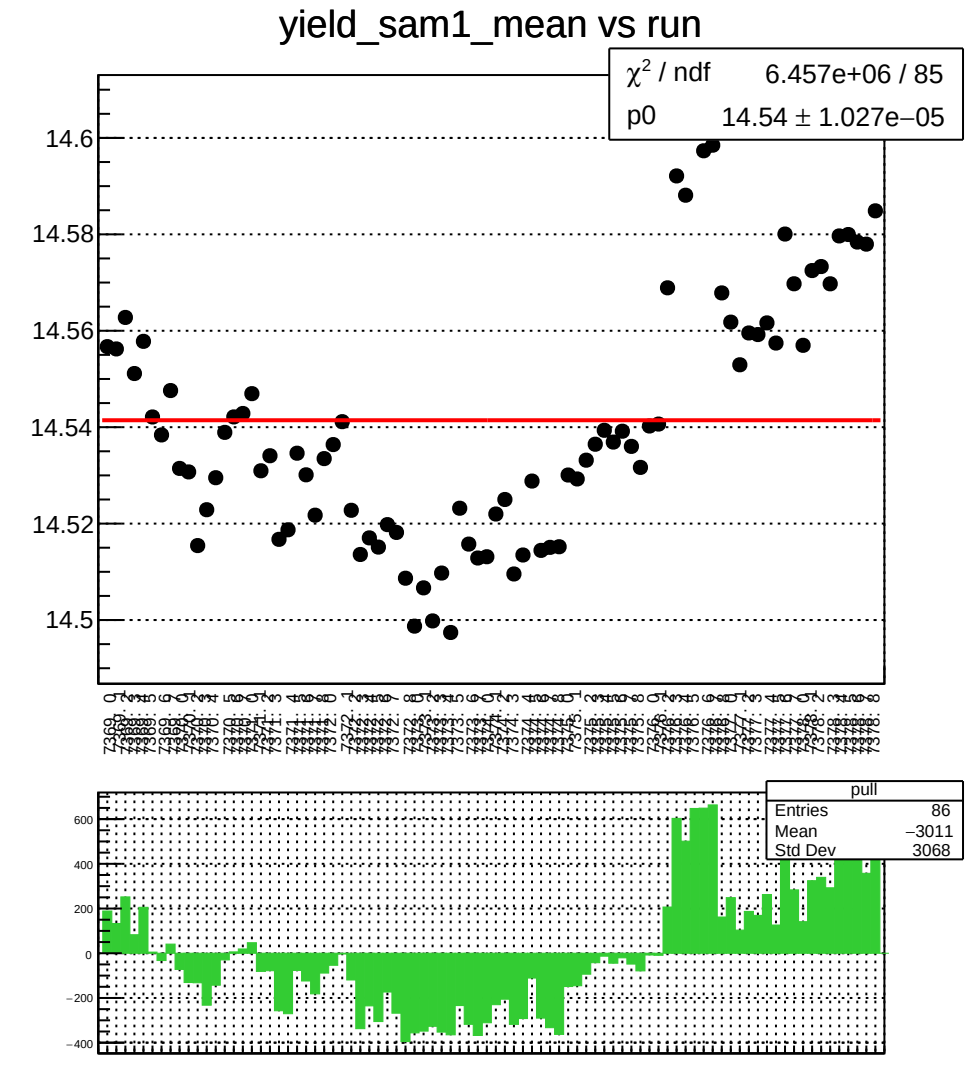

pull1D
Entries 86
Mean 0.008741
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

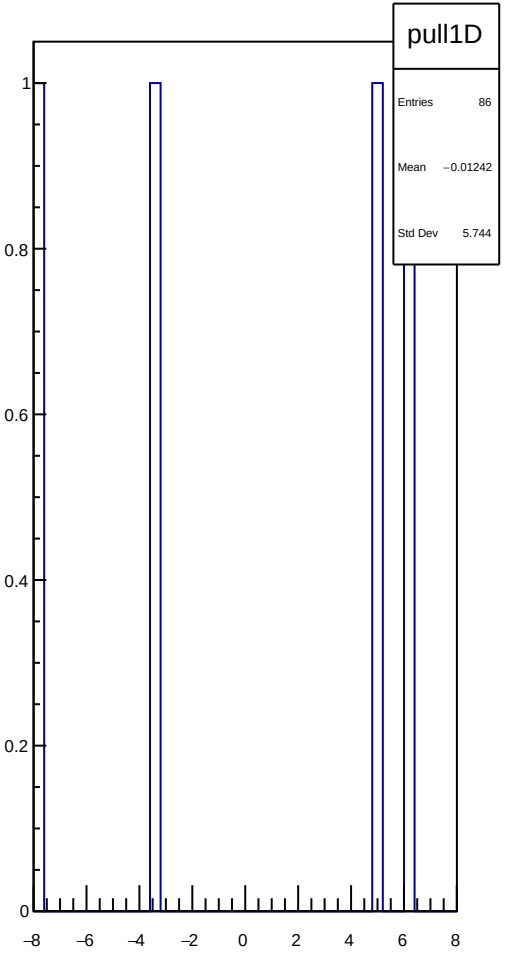

asym_sam7_rms vs run
χ² / ndf 5105 / 85
p0 253.5 ± 0.1989
290
280
270
260
250
240
230
220
210

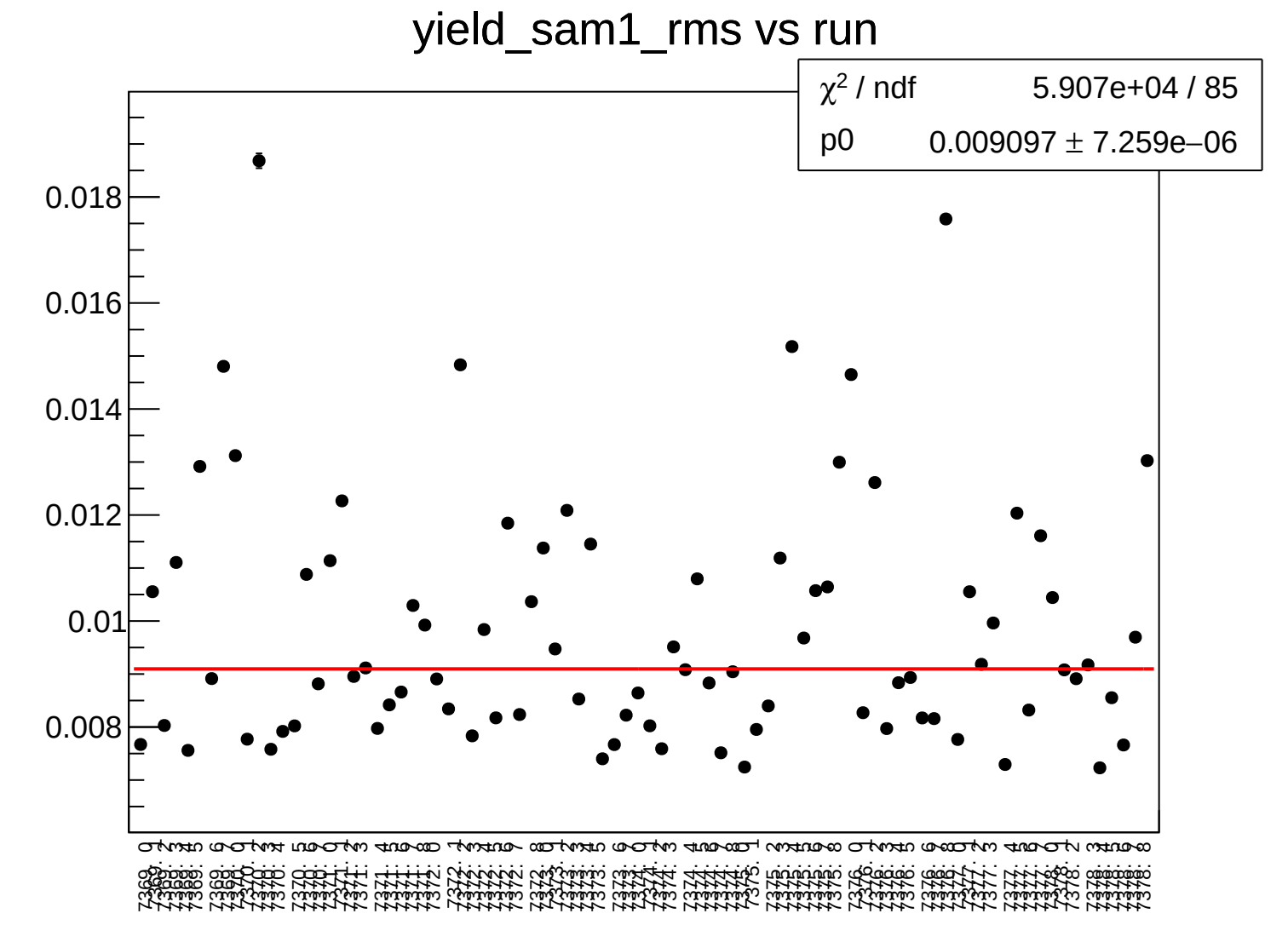

asym_sam8_mean vs run
χ² / ndf 70.7 / 85
p0 −309 ± 278
pull
Entries 86
Mean −129.7
Std Dev 189

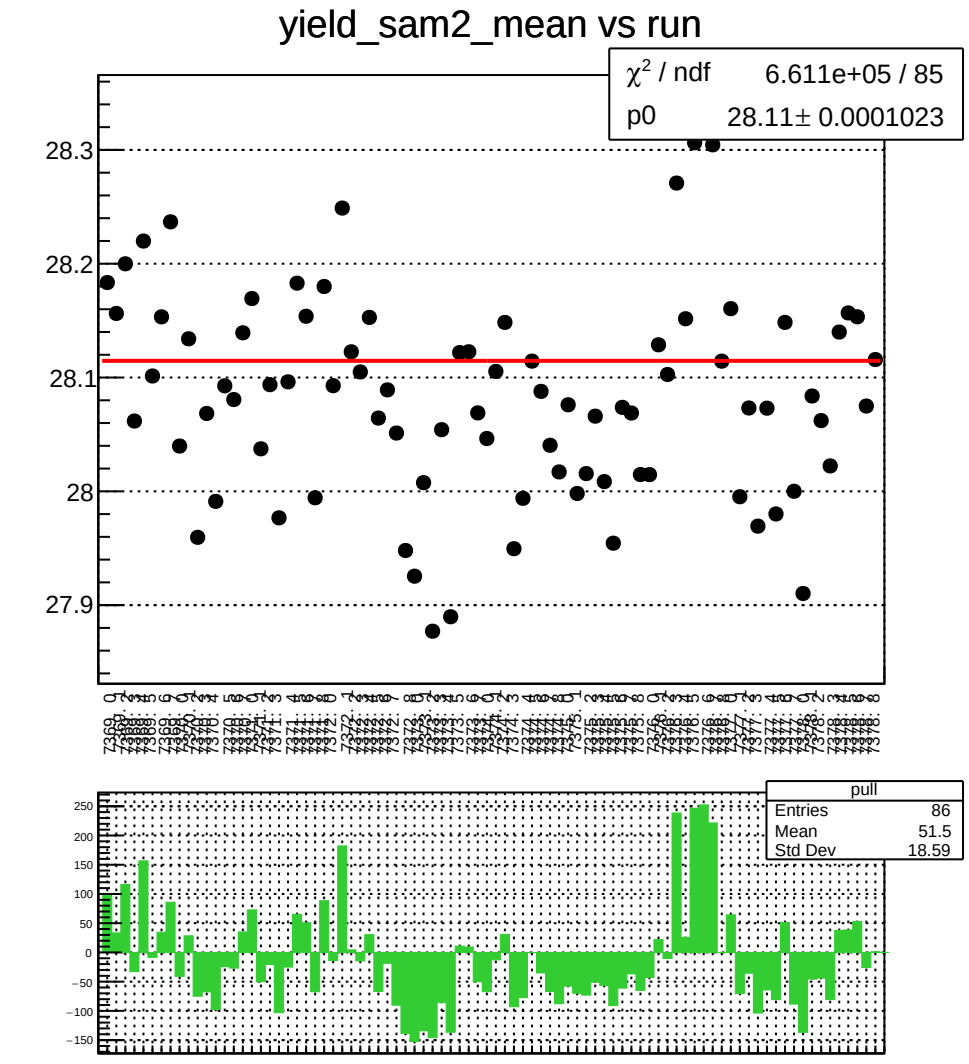

pull1D
Entries 86
Mean 0.005623
Std Dev 0.9067

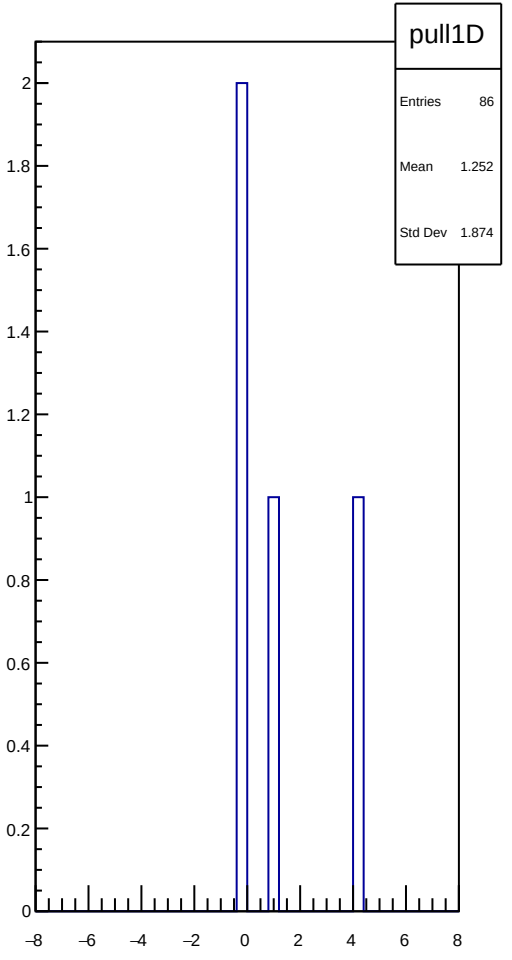

asym_sam8_rms vs run
χ² / ndf 6834 / 85
p0 250.4 ± 0.1966
300
290
280
270
260
250
240
230
220

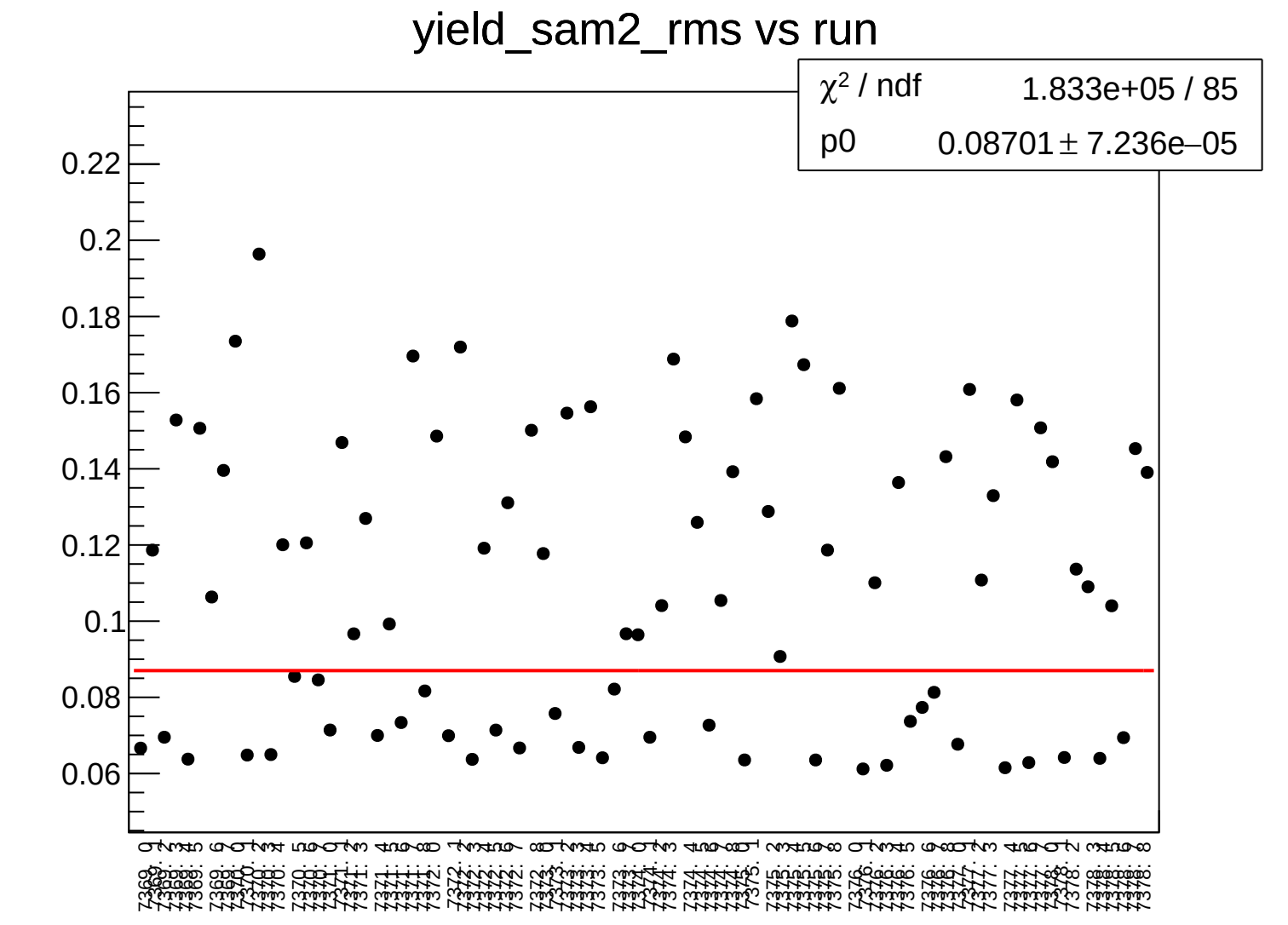

yield_sam1_mean vs run
χ² / ndf 6.457e+06 / 85
p0 14.54 ± 1.027e−05
14.6
14.58
14.56
14.54
14.52
14.5
pull
Entries 86
Mean −3011
Std Dev 3068
600
400
200
0
−200
−400

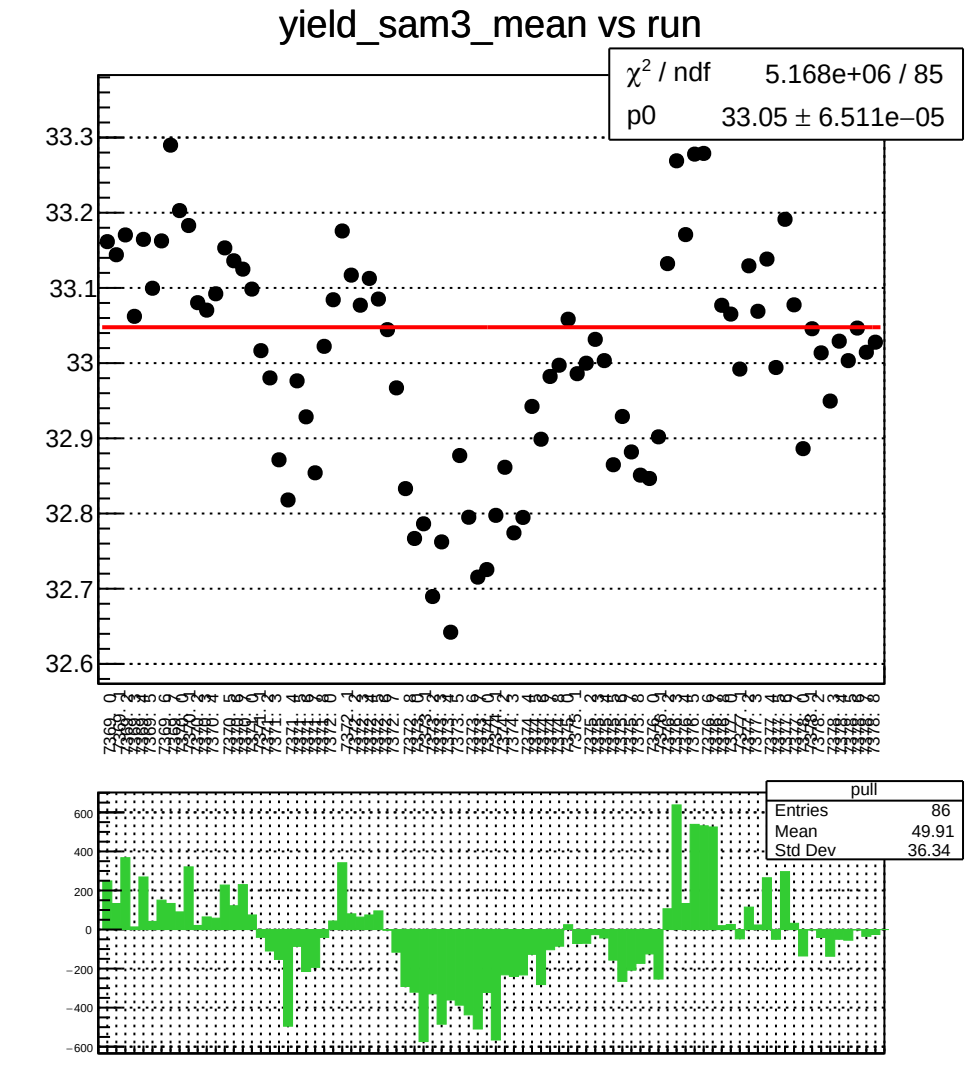

pull1D
Entries 86
Mean −0.01242
Std Dev 5.744
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

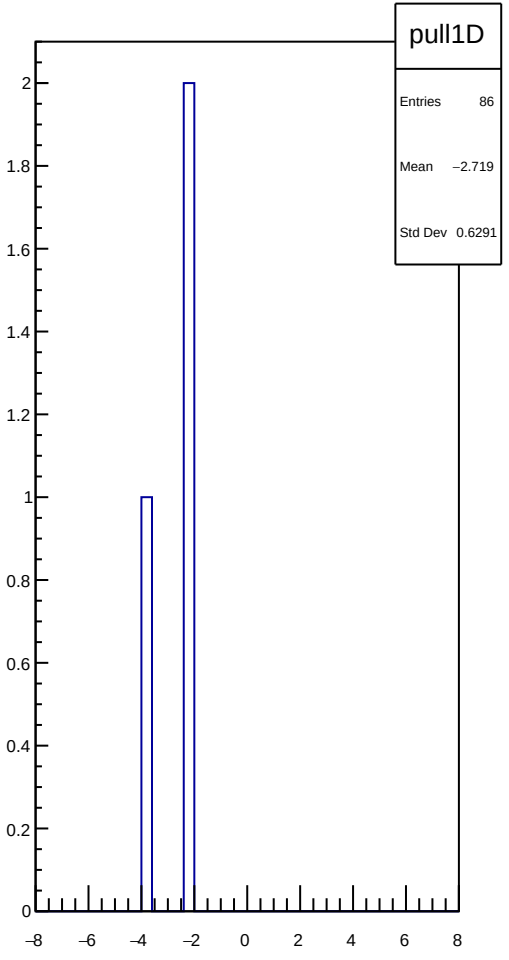

yield_sam1_rms vs run
χ² / ndf 5.907e+04 / 85
p0 0.009097 ± 7.259e−06
0.018
0.016
0.014
0.012
0.01
0.008

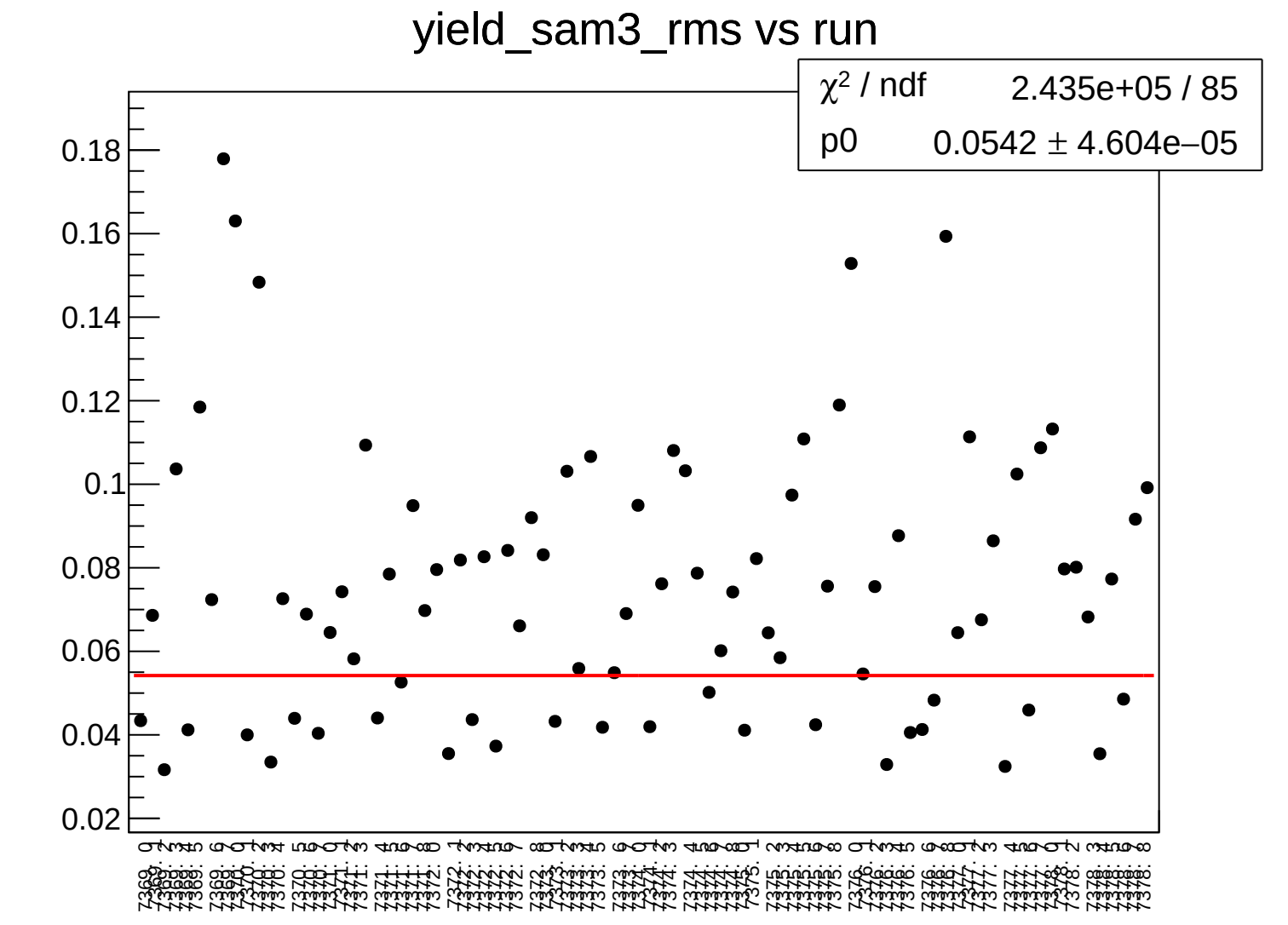

yield_sam2_mean vs run
χ² / ndf 6.611e+05 / 85
p0 28.11± 0.0001023
28.3
28.2
28.1
28
27.9
pull
Entries 86
Mean 51.5
Std Dev 18.59
250
200
150
100
50
0
−50
−100
−150

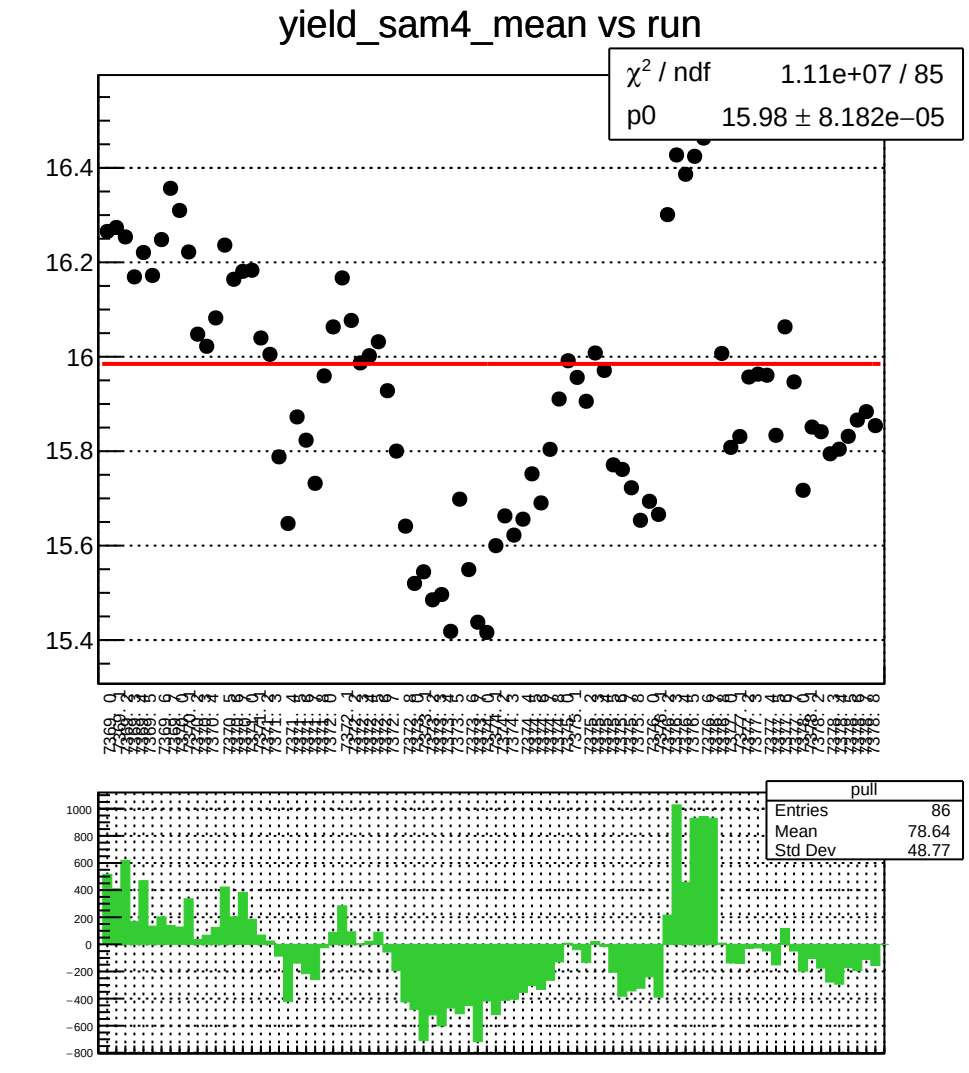

pull1D
Entries 86
Mean 1.252
Std Dev 1.874
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

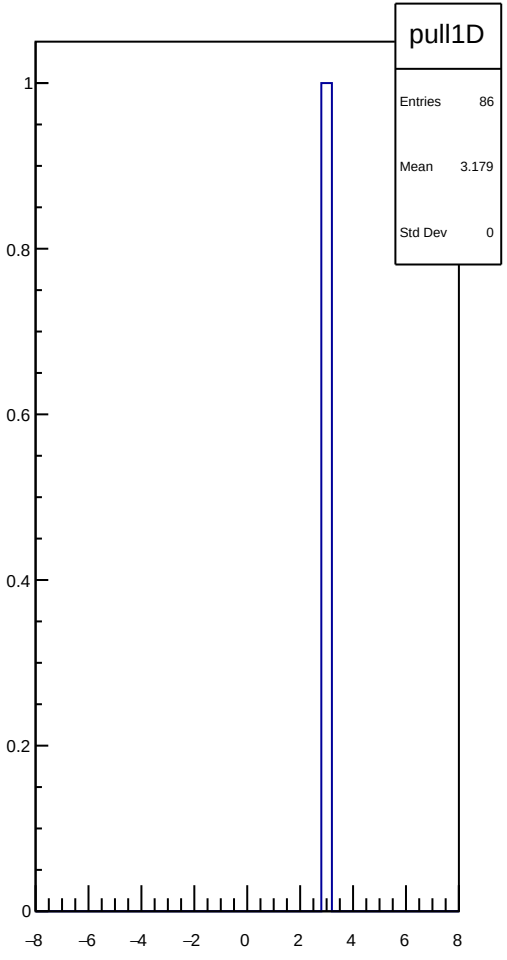

yield_sam2_rms vs run
χ² / ndf 1.833e+05 / 85
p0 0.08701 ± 7.236e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

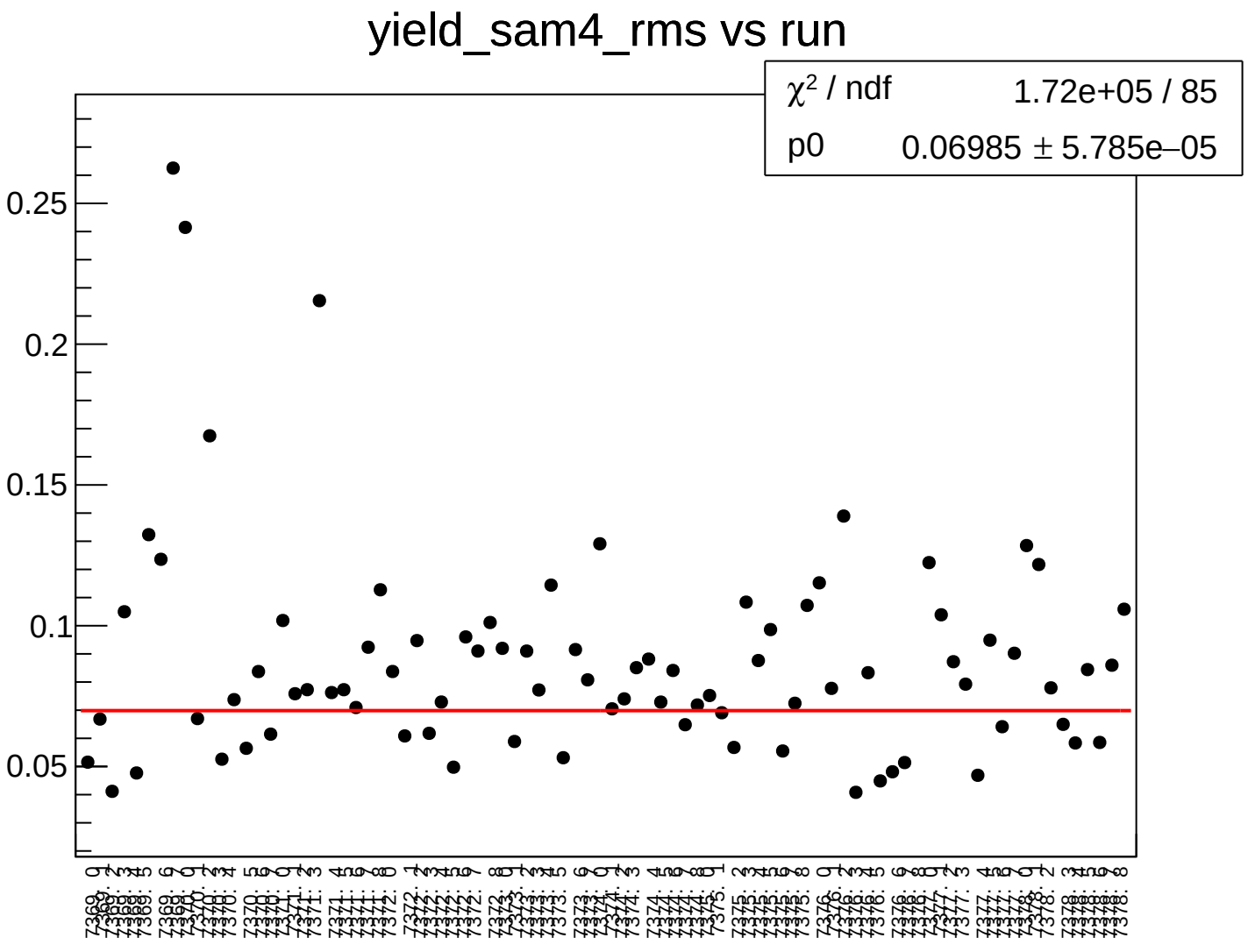

yield_sam3_mean vs run
χ² / ndf 5.168e+06 / 85
p0 33.05 ± 6.511e−05
33.3
33.2
33.1
33
32.9
32.8
32.7
32.6
pull
Entries 86
Mean 49.91
Std Dev 36.34
600
400
200
0
−200
−400
−600

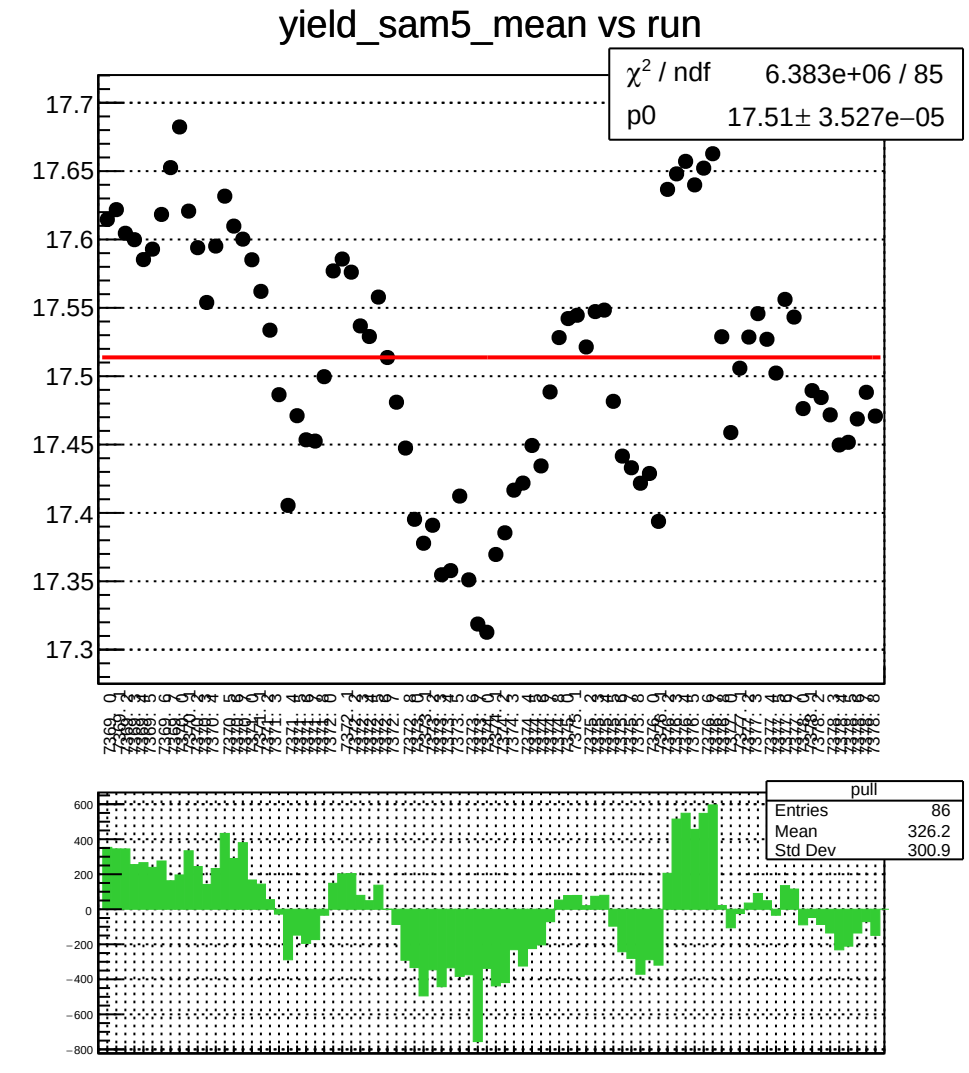

pull1D
Entries 86
Mean −2.719
Std Dev 0.6291
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

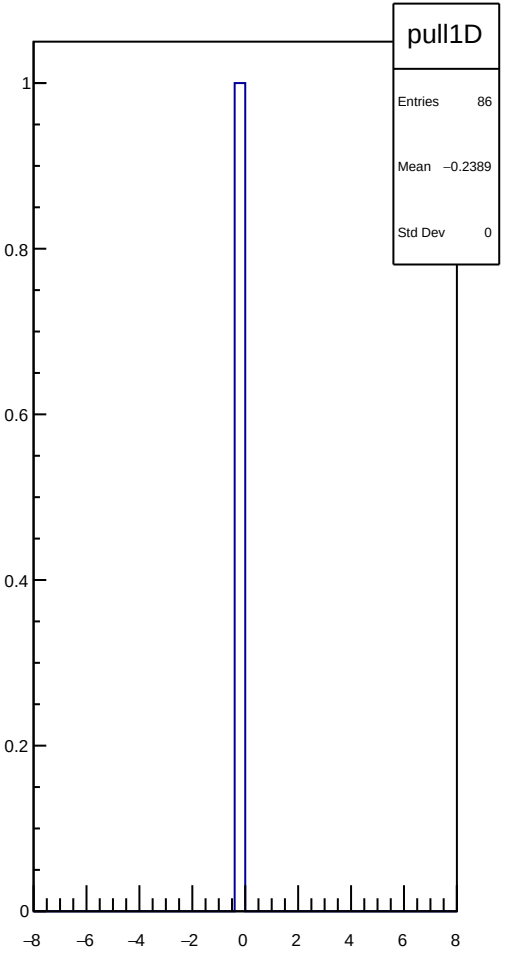

yield_sam3_rms vs run
χ^2 / ndf 2.435e+05 / 85
p0 0.0542 ± 4.604e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

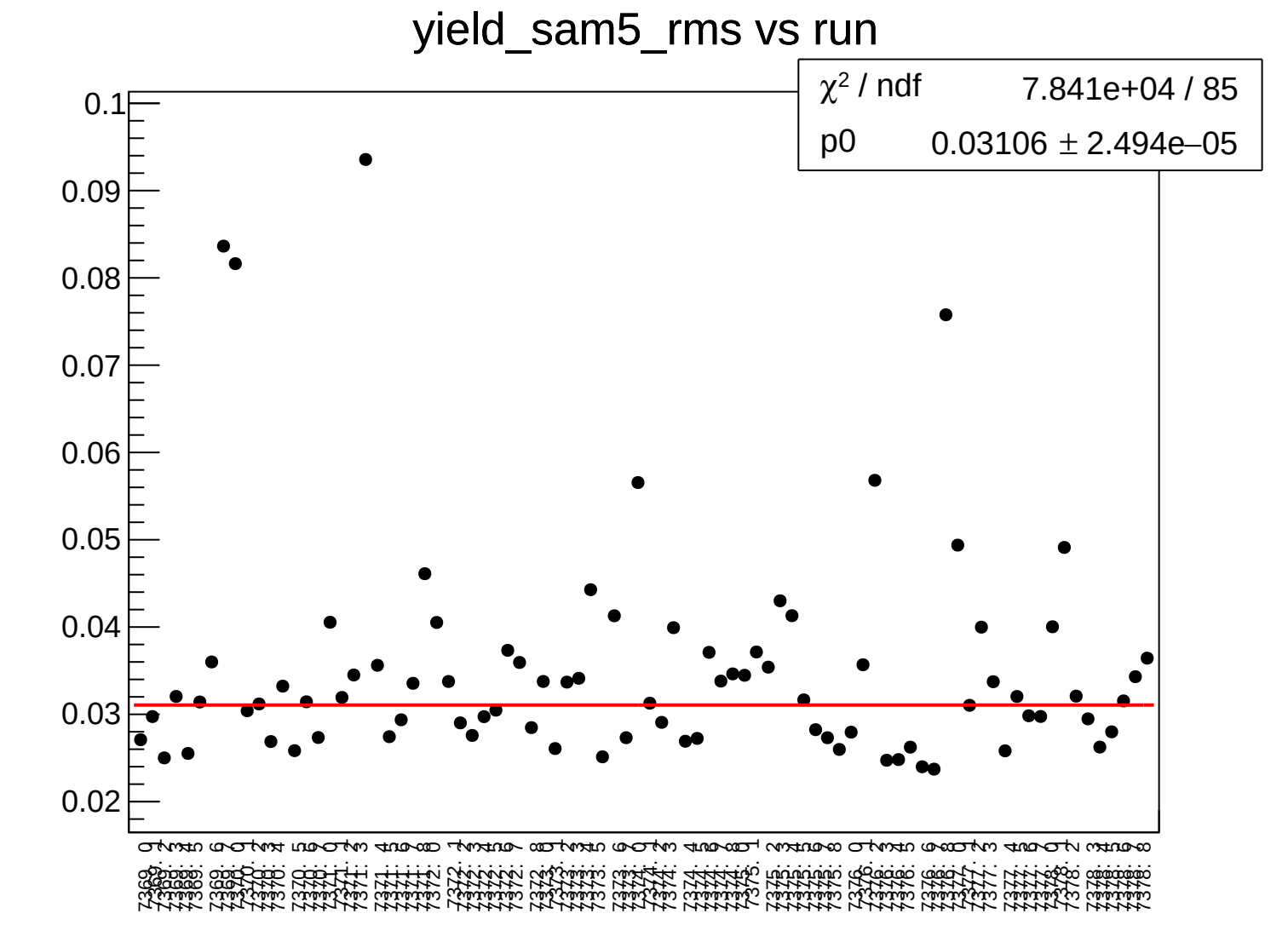

yield_sam4_mean vs run
χ² / ndf 1.11e+07 / 85
p0 15.98 ± 8.182e−05
16.4
16.2
16
15.8
15.6
15.4
pull
Entries 86
Mean 78.64
Std Dev 48.77
1000
800
600
400
200
0
−200
−400
−600
−800

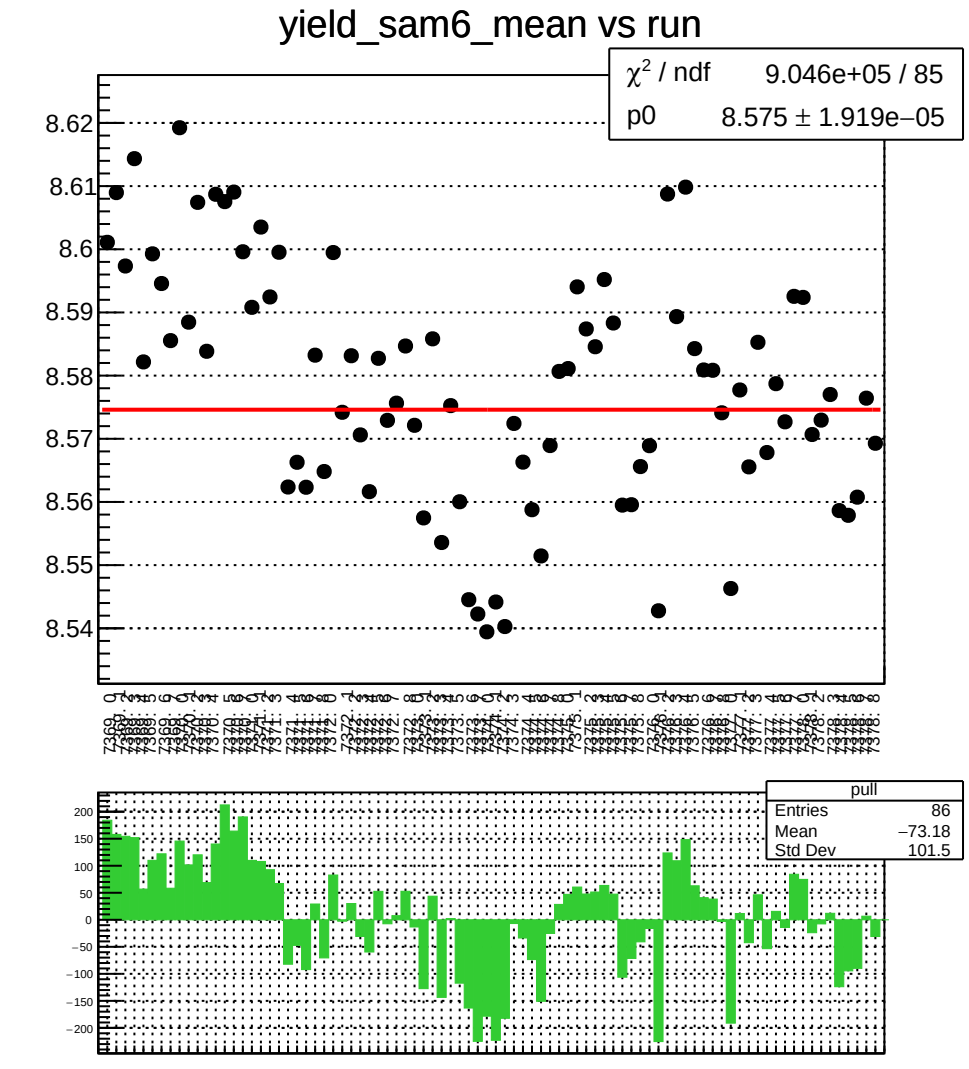

pull1D
Entries 86
Mean 3.179
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

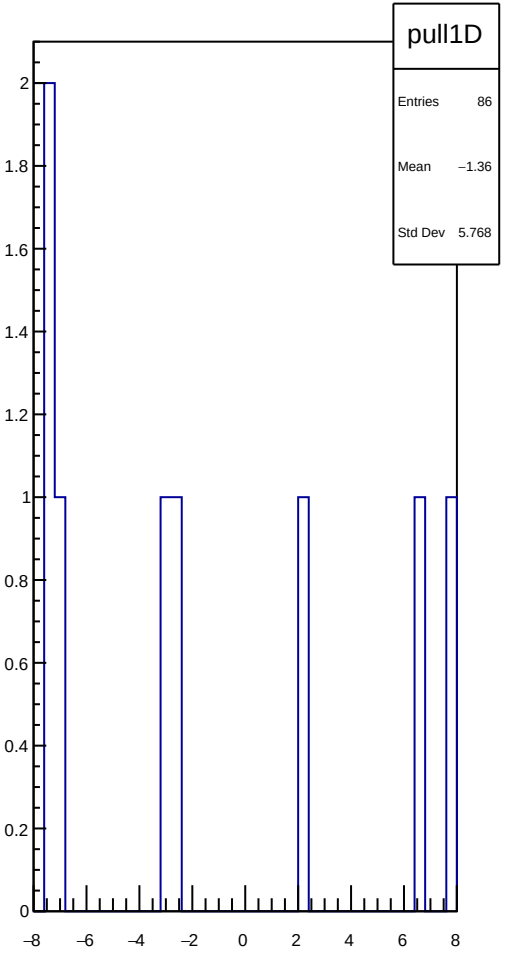

yield_sam4_rms vs run
χ² / ndf 1.72e+05 / 85
p0 0.06985 ± 5.785e−05
0.25
0.2
0.15
0.1
0.05

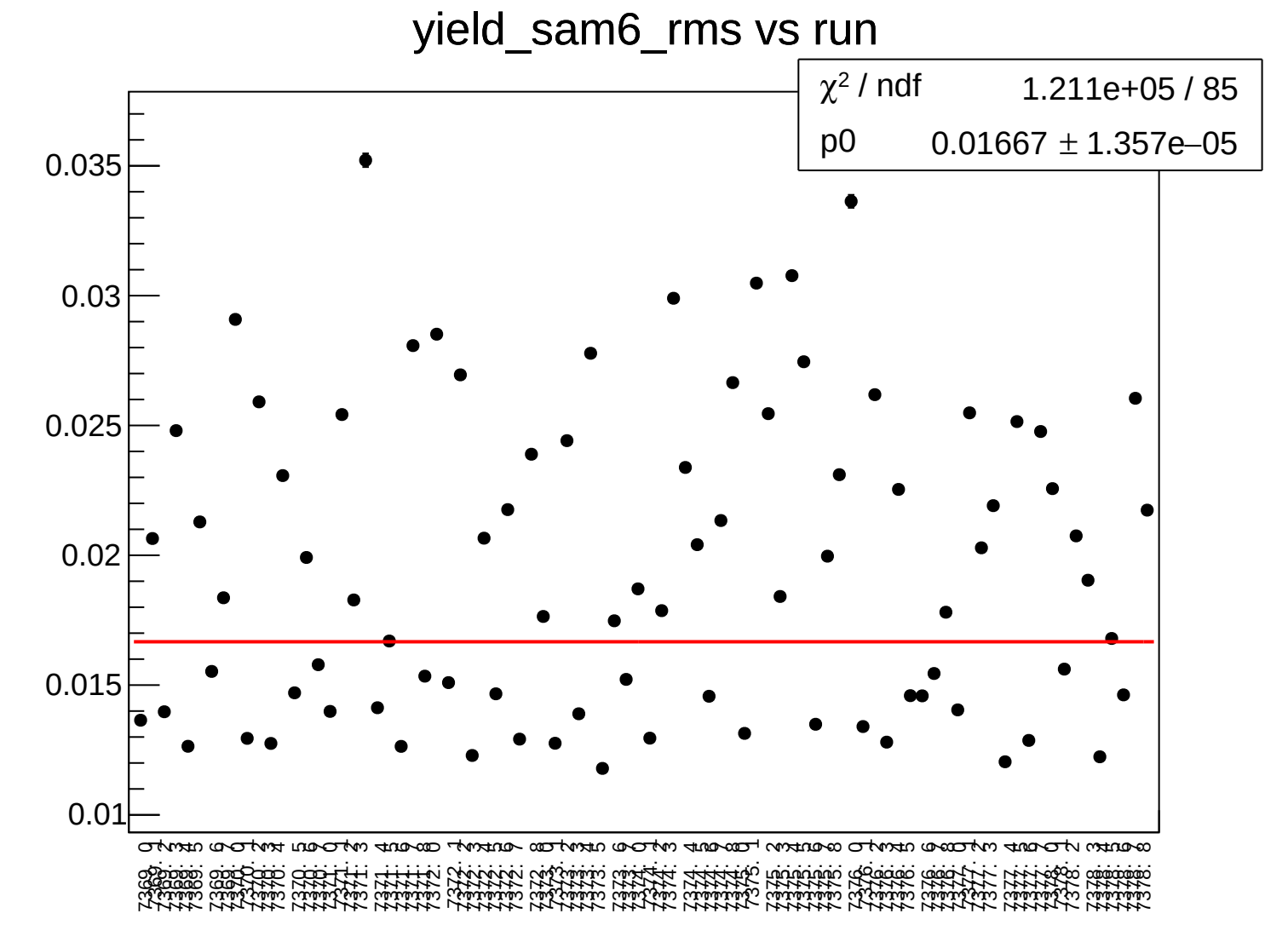

yield_sam5_mean vs run
χ² / ndf 6.383e+06 / 85
p0 17.51± 3.527e−05
17.7
17.65
17.6
17.55
17.5
17.45
17.4
17.35
17.3
pull
Entries 86
Mean 326.2
Std Dev 300.9
600
400
200
0
−200
−400
−600
−800

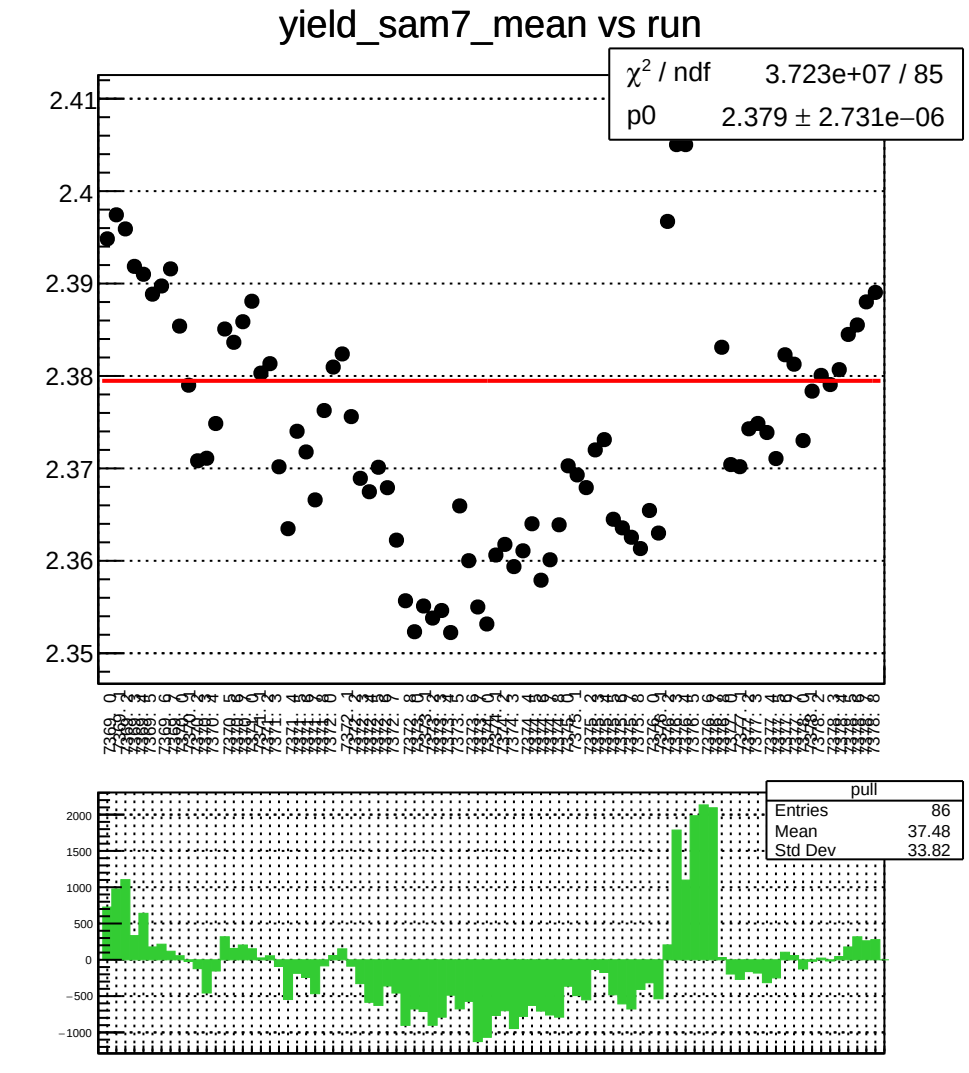

pull1D
Entries 86
Mean −0.2389
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

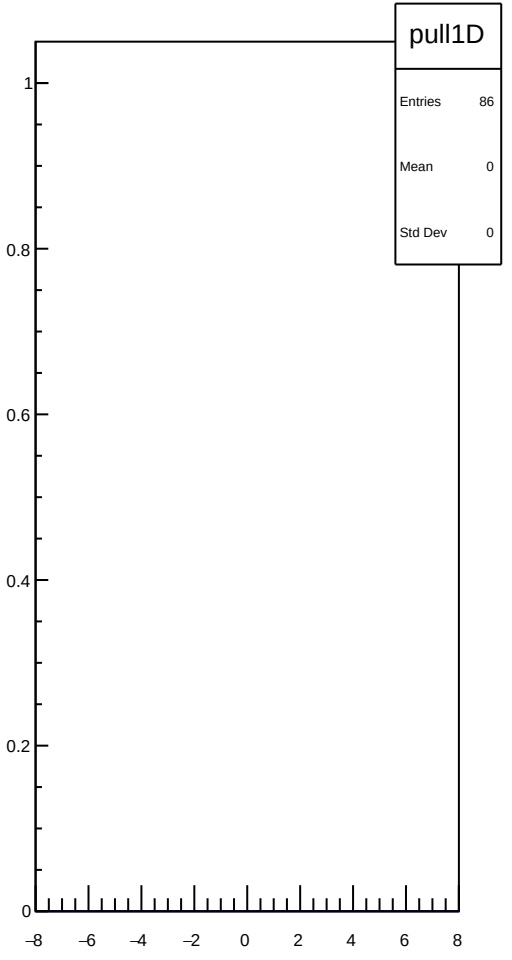

yield_sam5_rms vs run
χ^2 / ndf 7.841e+04 / 85
p0 0.03106 ± 2.494e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

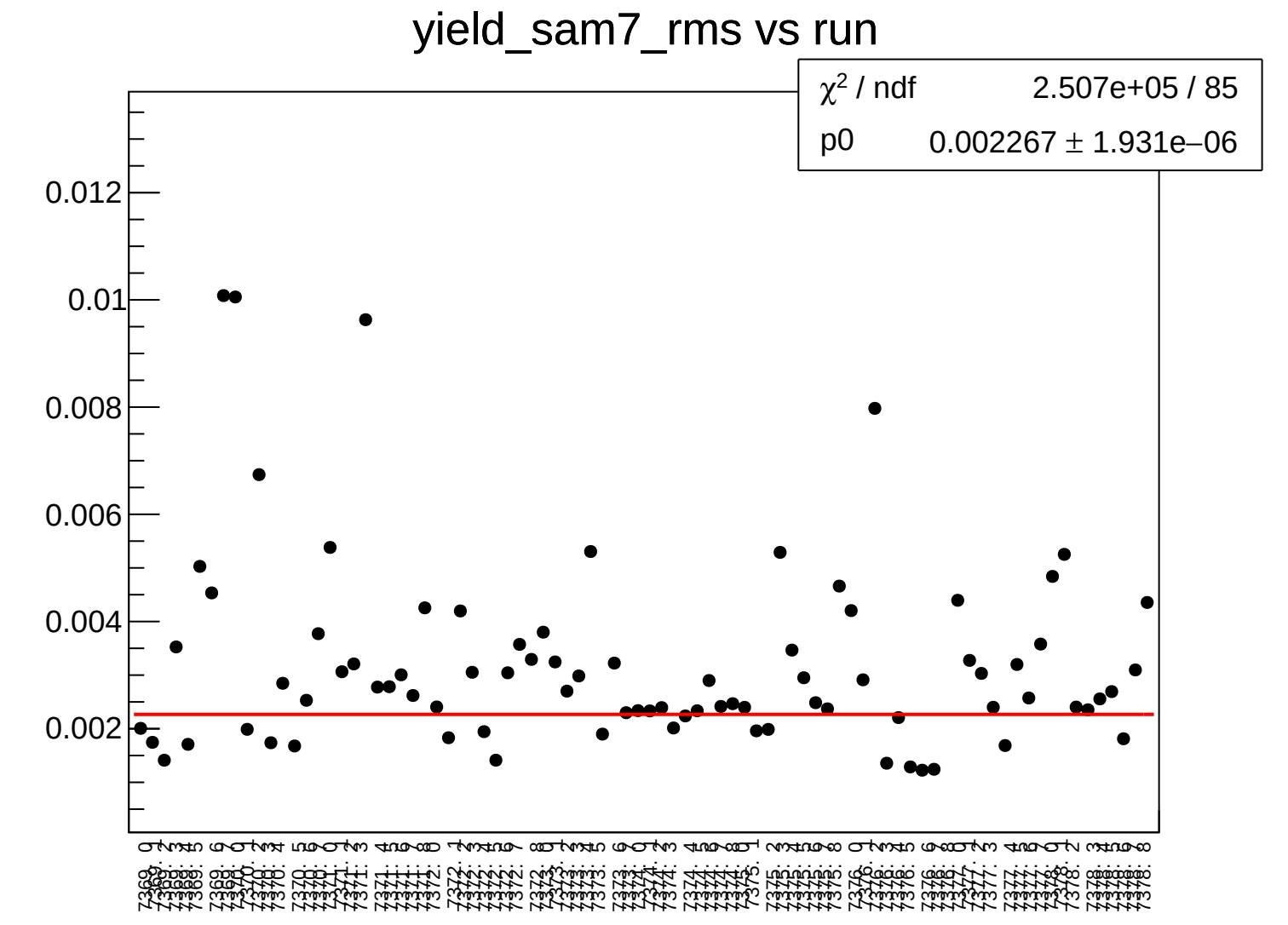

yield_sam6_mean vs run
χ² / ndf 9.046e+05 / 85
p0 8.575 ± 1.919e−05
8.62
8.61
8.6
8.59
8.58
8.57
8.56
8.55
8.54
pull
Entries 86
Mean −73.18
Std Dev 101.5
200
150
100
50
0
−50
−100
−150
−200

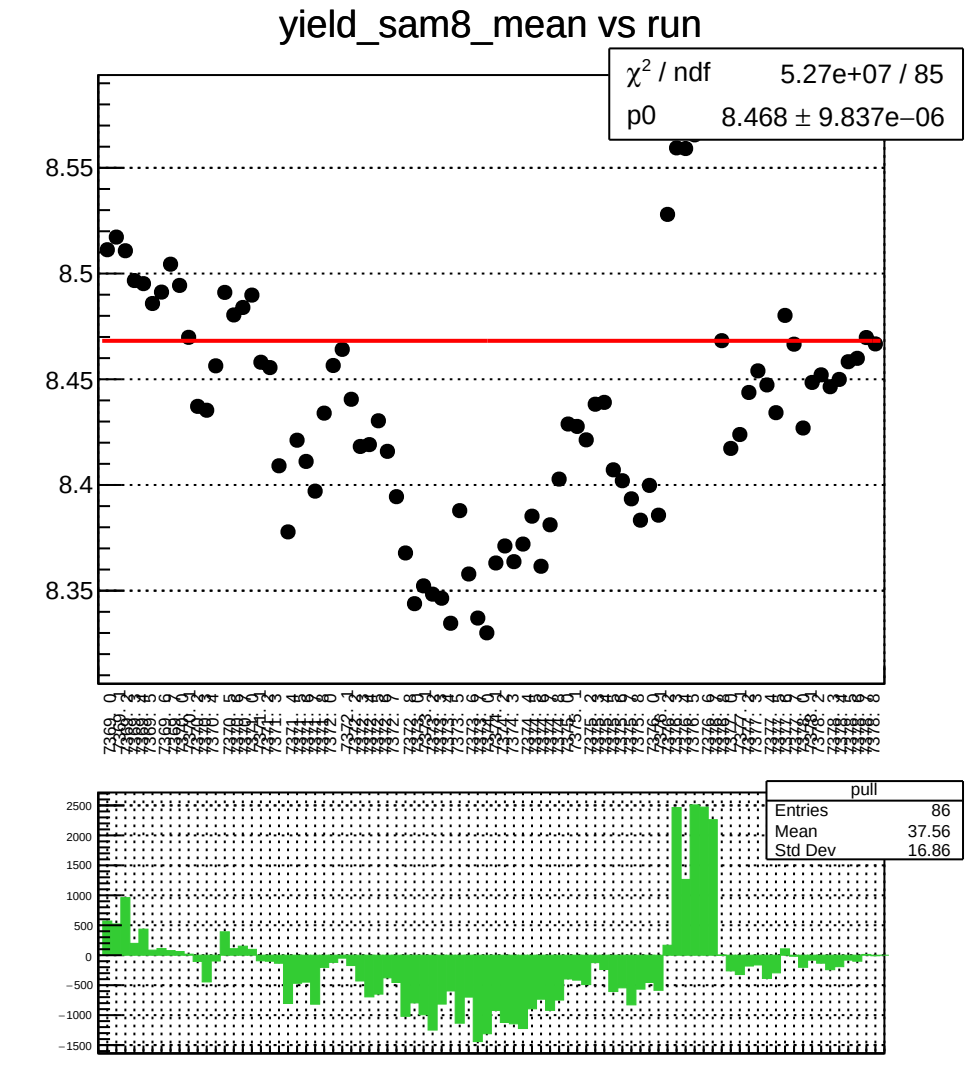

pull1D
Entries 86
Mean −1.36
Std Dev 5.768
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

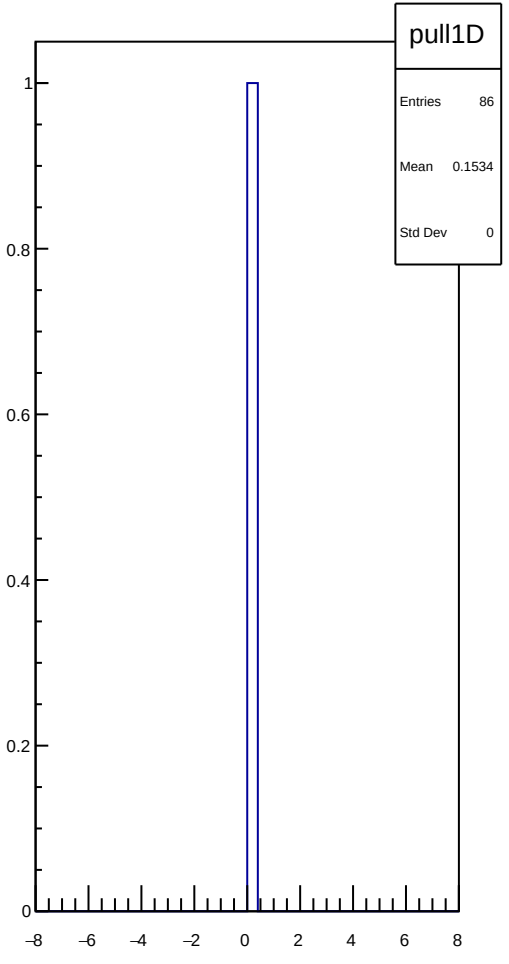

yield_sam6_rms vs run
χ² / ndf 1.211e+05 / 85
p0 0.01667 ± 1.357e–05
0.035
0.03
0.025
0.02
0.015
0.01

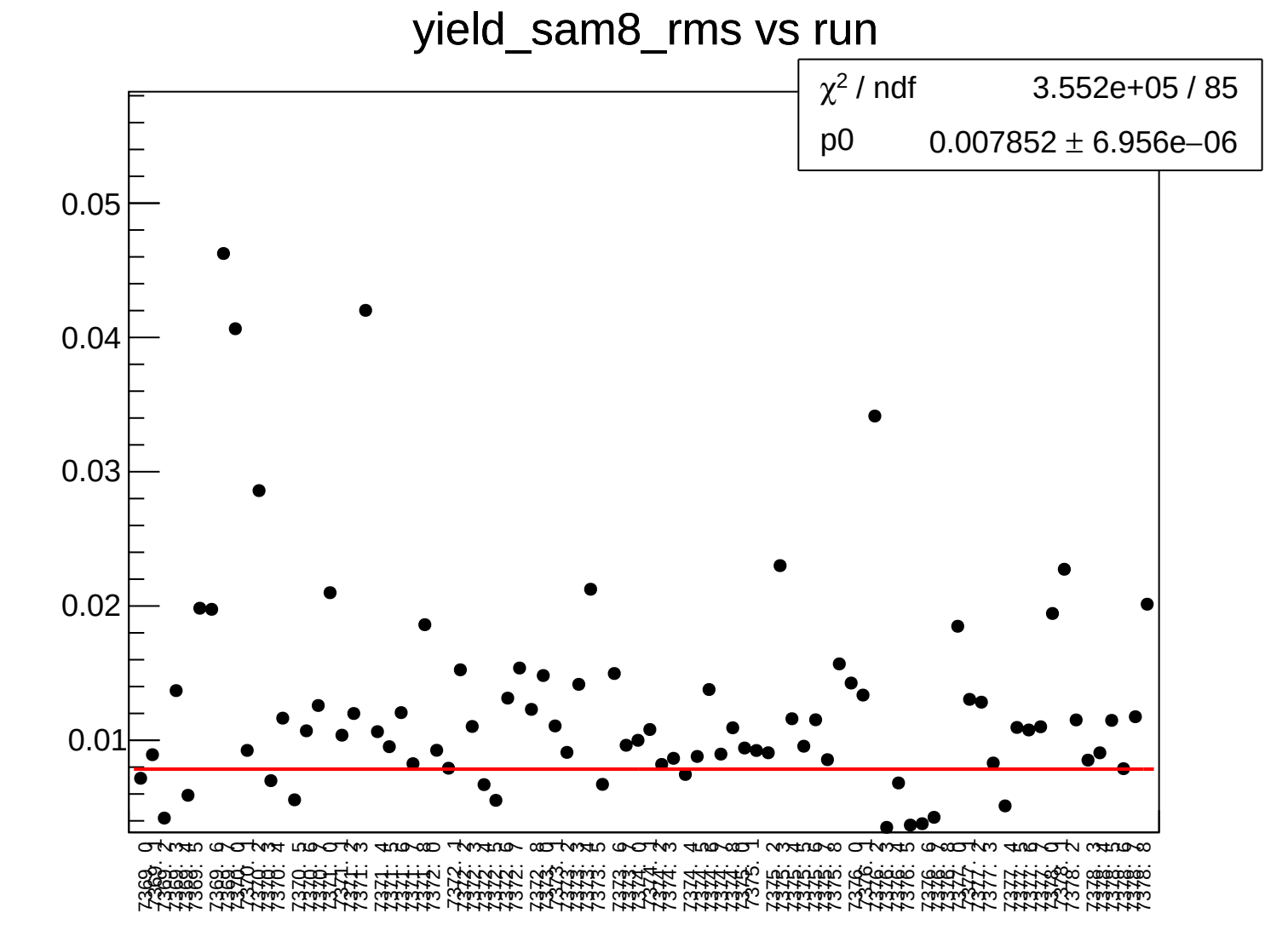

yield_sam7_mean vs run
χ² / ndf 3.723e+07 / 85
p0 2.379 ± 2.731e−06
2.41
2.4
2.39
2.38
2.37
2.36
2.35
pull
Entries 86
Mean 37.48
Std Dev 33.82
2000
1500
1000
500
0
−500
−1000

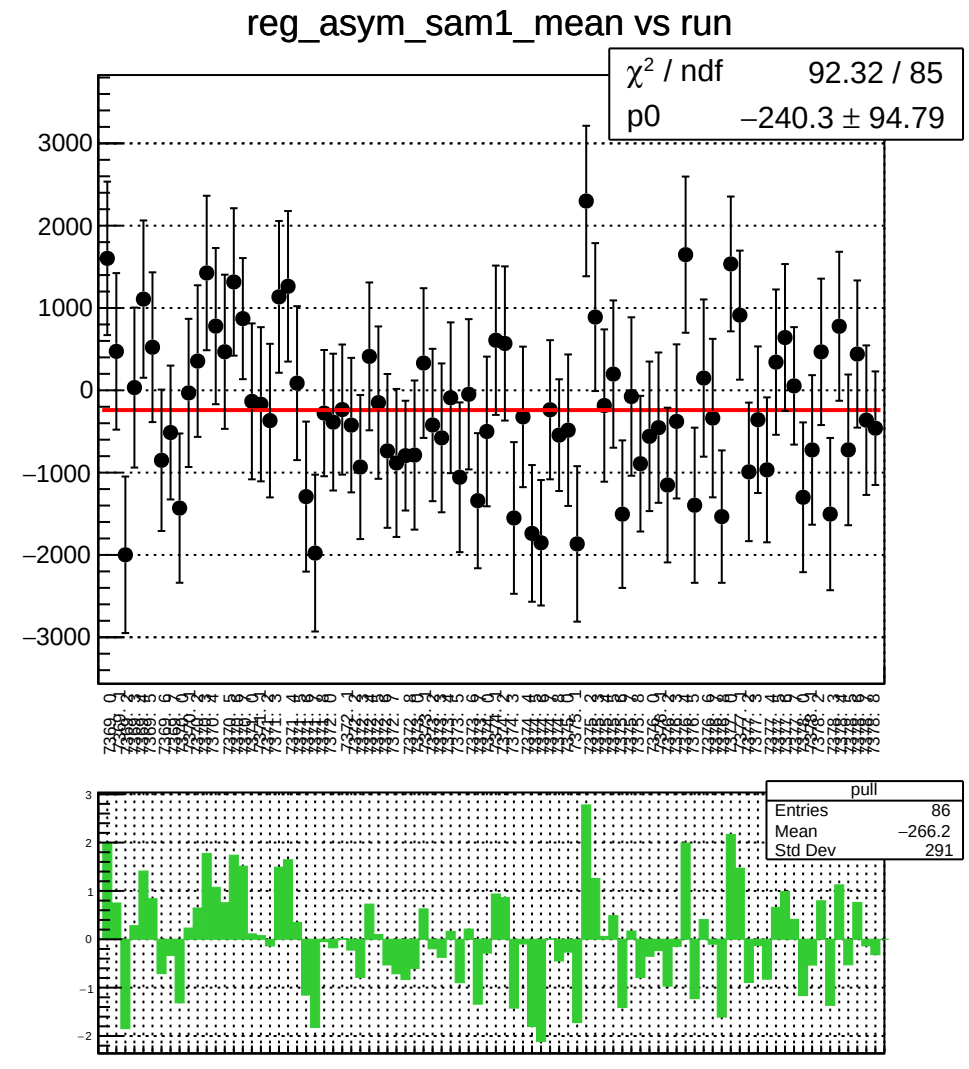

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

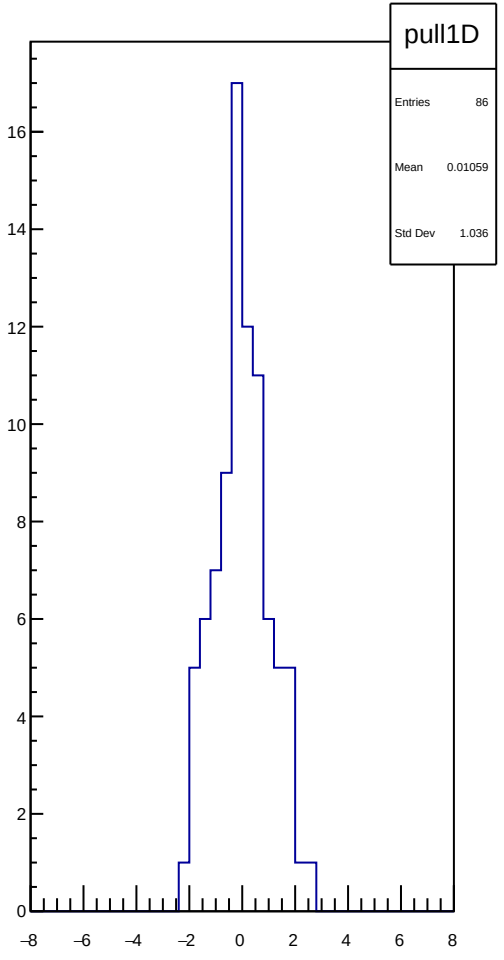

yield_sam7_rms vs run
χ² / ndf 2.507e+05 / 85
p0 0.002267 ± 1.931e−06
0.012
0.01
0.008
0.006
0.004
0.002

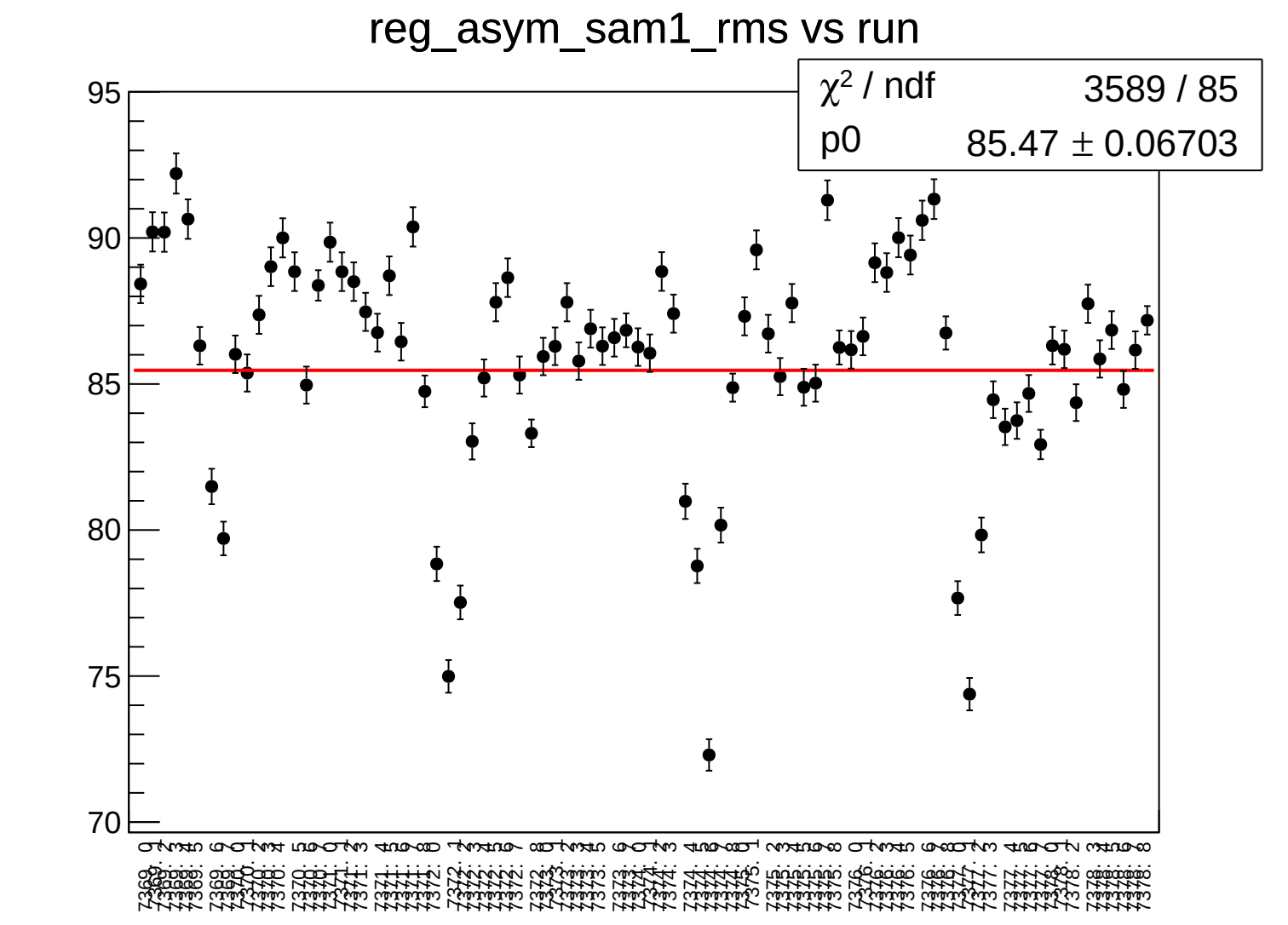

yield_sam8_mean vs run
χ² / ndf 5.27e+07 / 85
p0 8.468 ± 9.837e−06
8.55
8.5
8.45
8.4
8.35
pull
Entries 86
Mean 37.56
Std Dev 16.86
2500
2000
1500
1000
500
0
−500
−1000
−1500

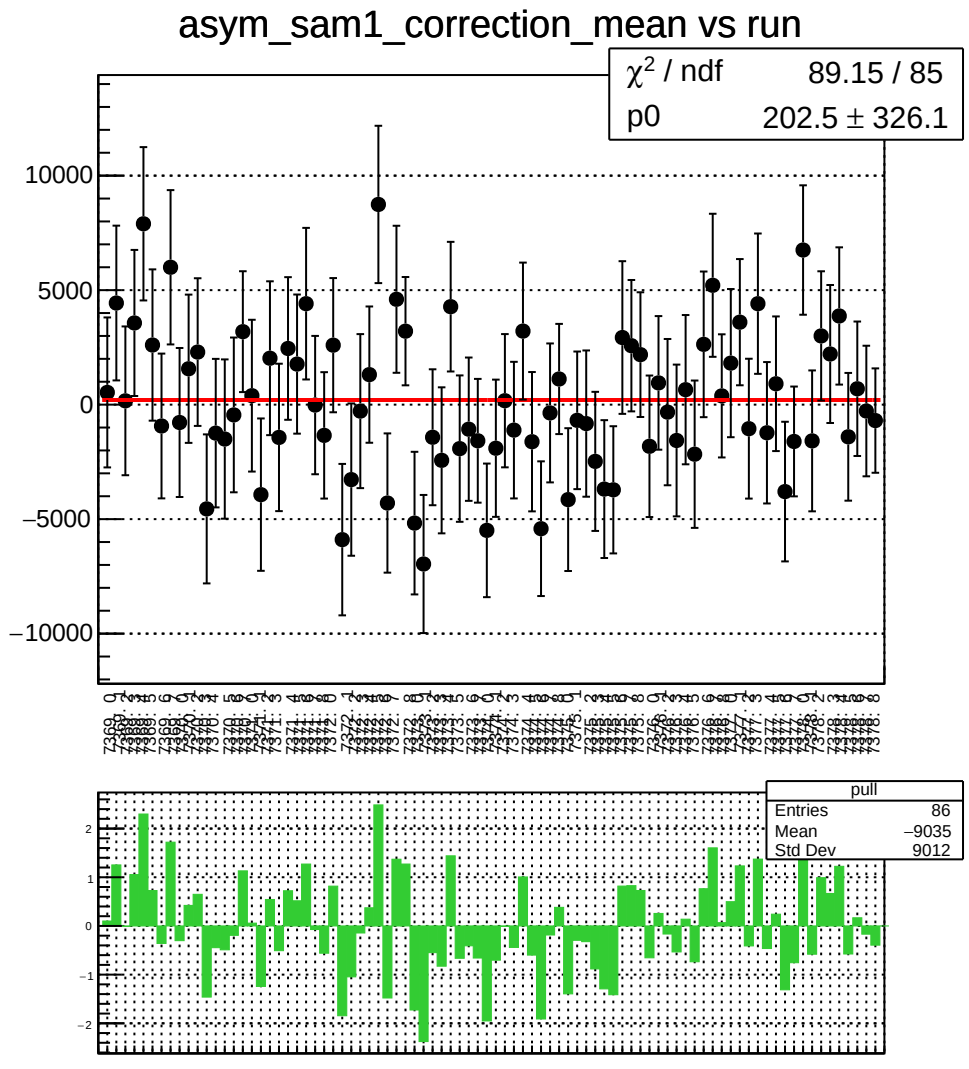

pull1D
Entries 86
Mean 0.1534
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

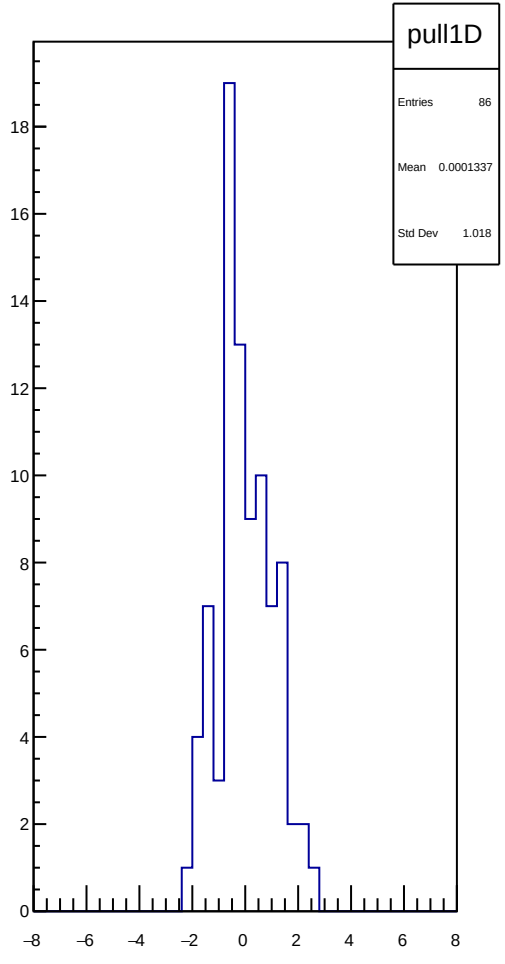

yield_sam8_rms vs run
χ² / ndf 3.552e+05 / 85
p0 0.007852 ± 6.956e−06
0.05
0.04
0.03
0.02
0.01

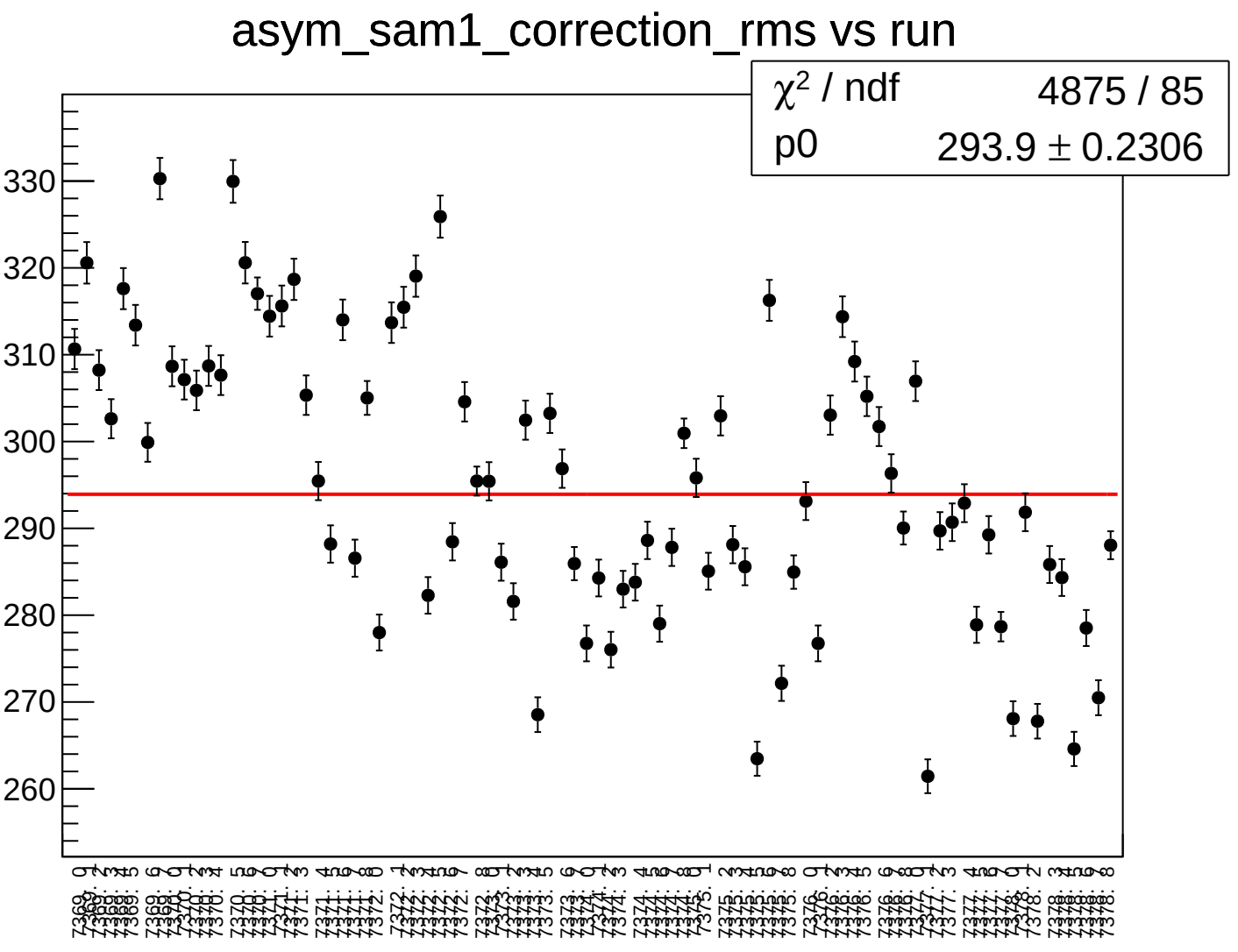

reg_asym_sam1_mean vs run
χ² / ndf 92.32 / 85
p0 −240.3 ± 94.79
pull
Entries 86
Mean −266.2
Std Dev 291

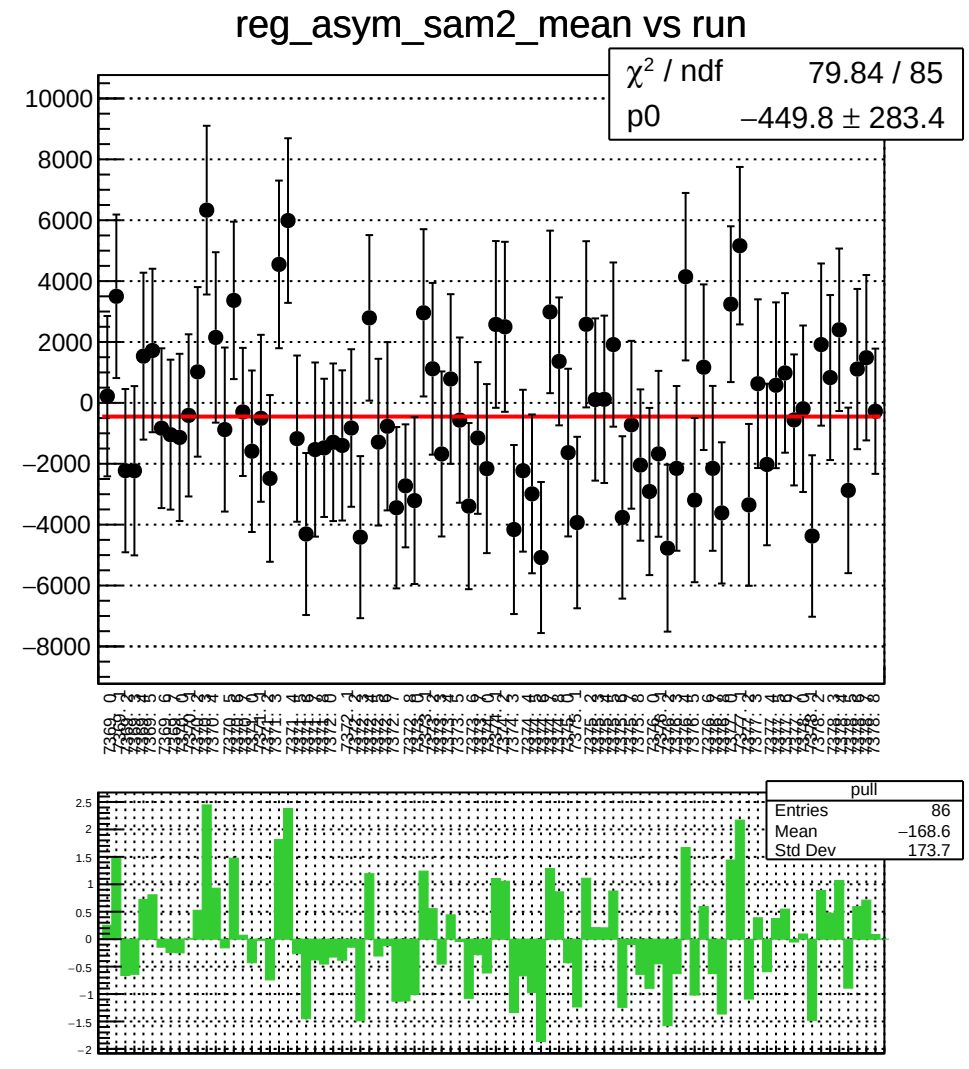

pull1D
Entries 86
Mean 0.01059
Std Dev 1.036

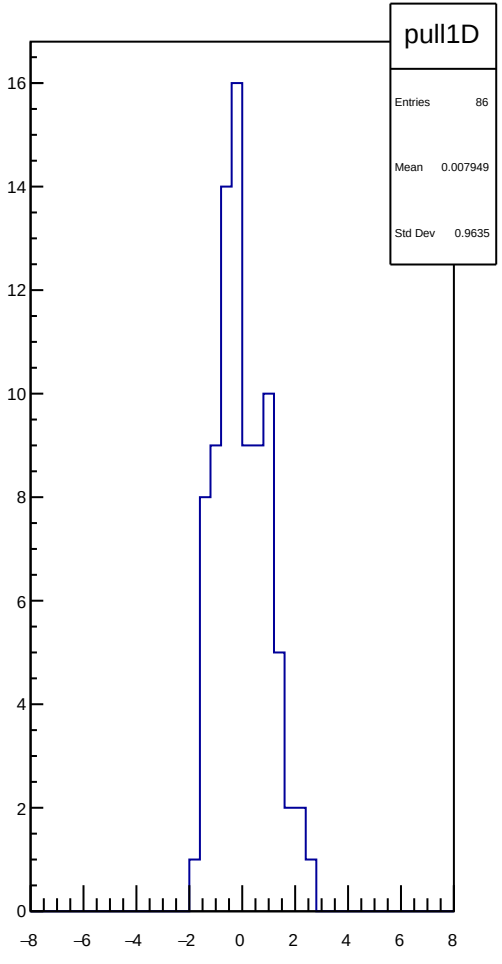

reg_asym_sam1_rms vs run
χ^2 / ndf 3589 / 85
p0 85.47 ± 0.06703
95
90
85
80
75
70

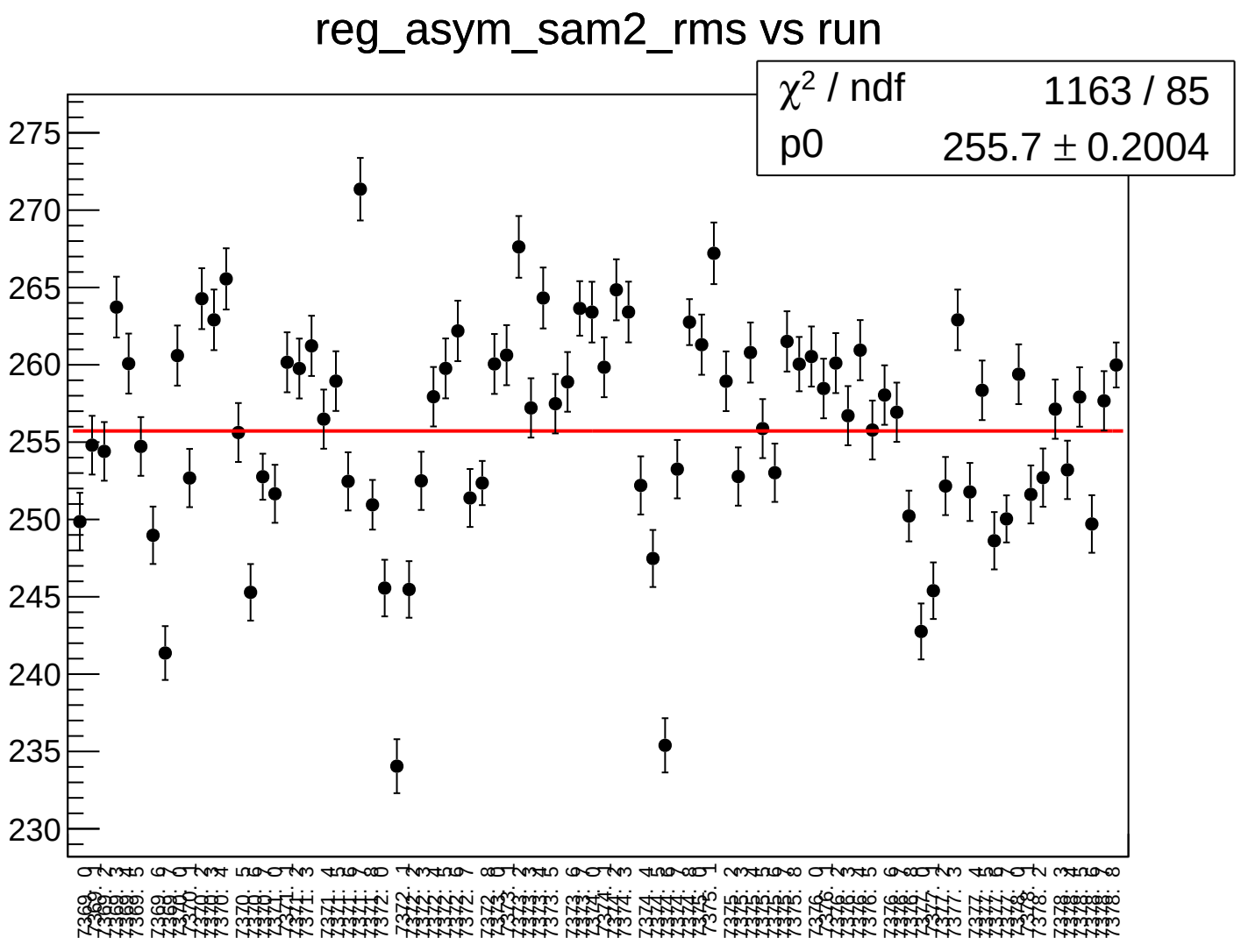

asym_sam1_correction_mean vs run
χ² / ndf 89.15 / 85
p0 202.5 ± 326.1
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −9035
Std Dev 9012
2
1
0
−1
−2

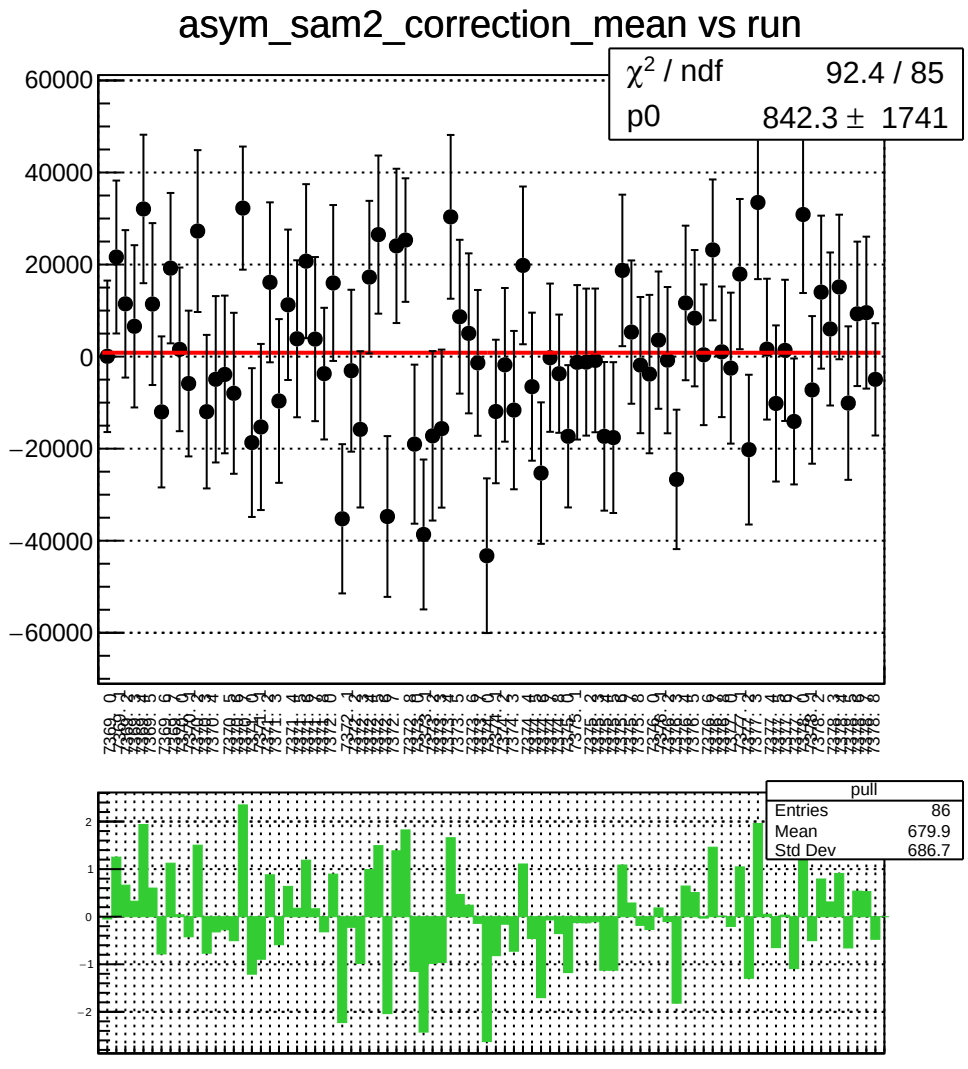

pull1D
Entries 86
Mean 0.0001337
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

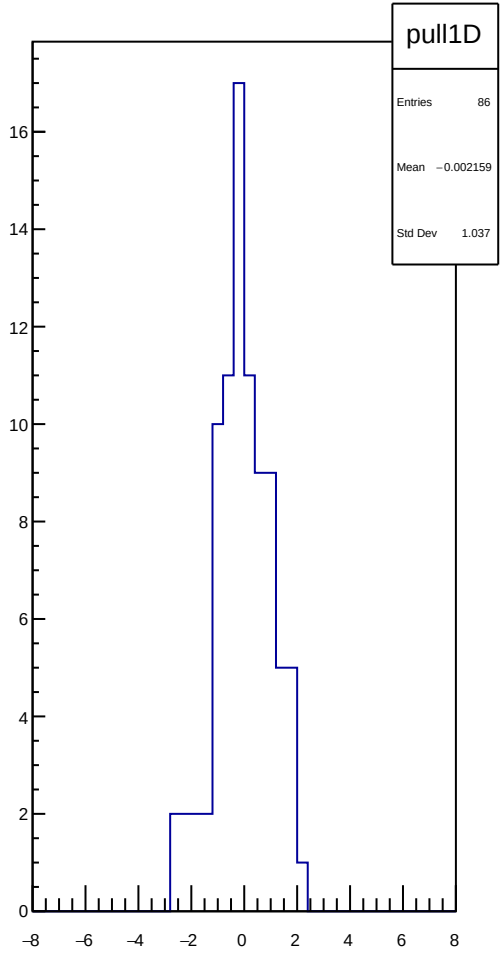

asym_sam1_correction_rms vs run
χ² / ndf 4875 / 85
p0 293.9 ± 0.2306
330
320
310
300
290
280
270
260

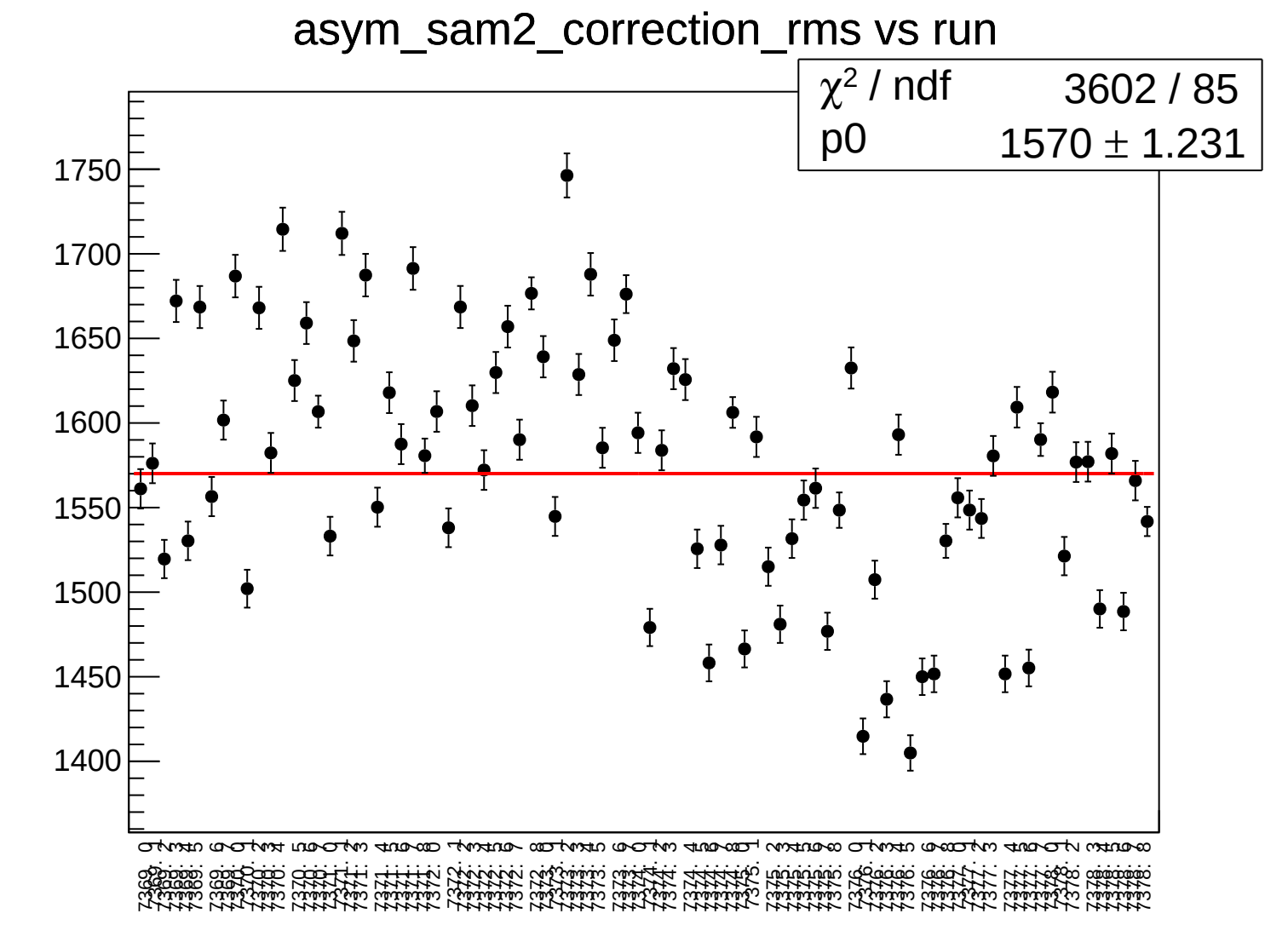

reg_asym_sam2_mean vs run
χ² / ndf 79.84 / 85
p0 −449.8 ± 283.4
pull
Entries 86
Mean −168.6
Std Dev 173.7

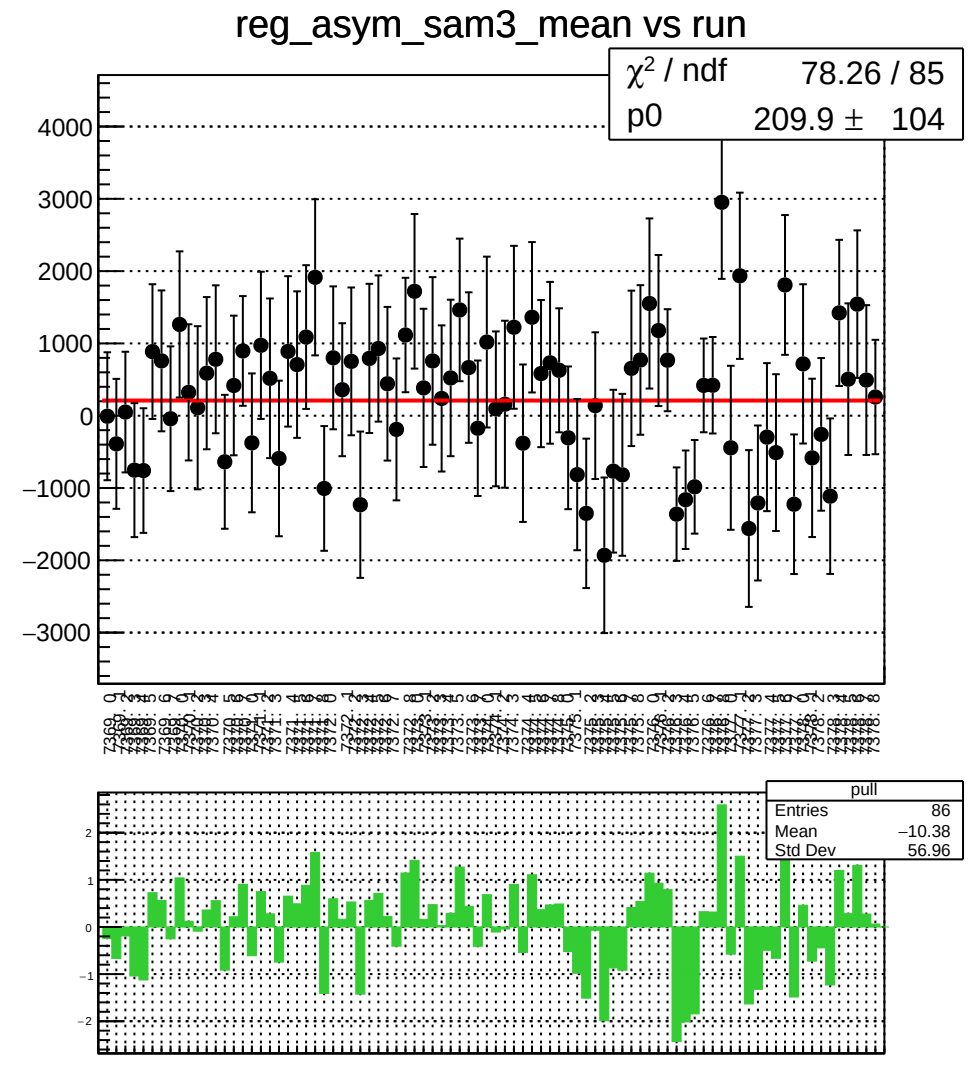

pull1D
Entries 86
Mean 0.007949
Std Dev 0.9635

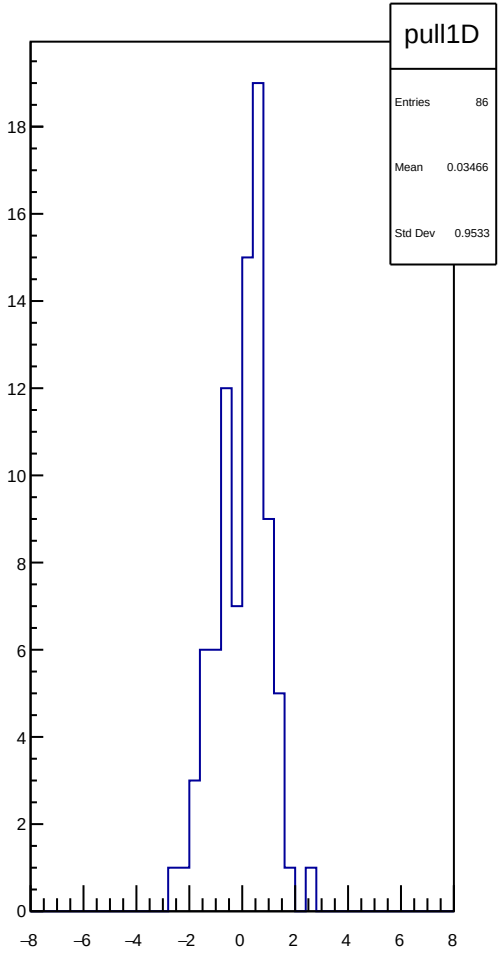

reg_asym_sam2_rms vs run
χ² / ndf 1163 / 85
p0 255.7 ± 0.2004
275
270
265
260
255
250
245
240
235
230

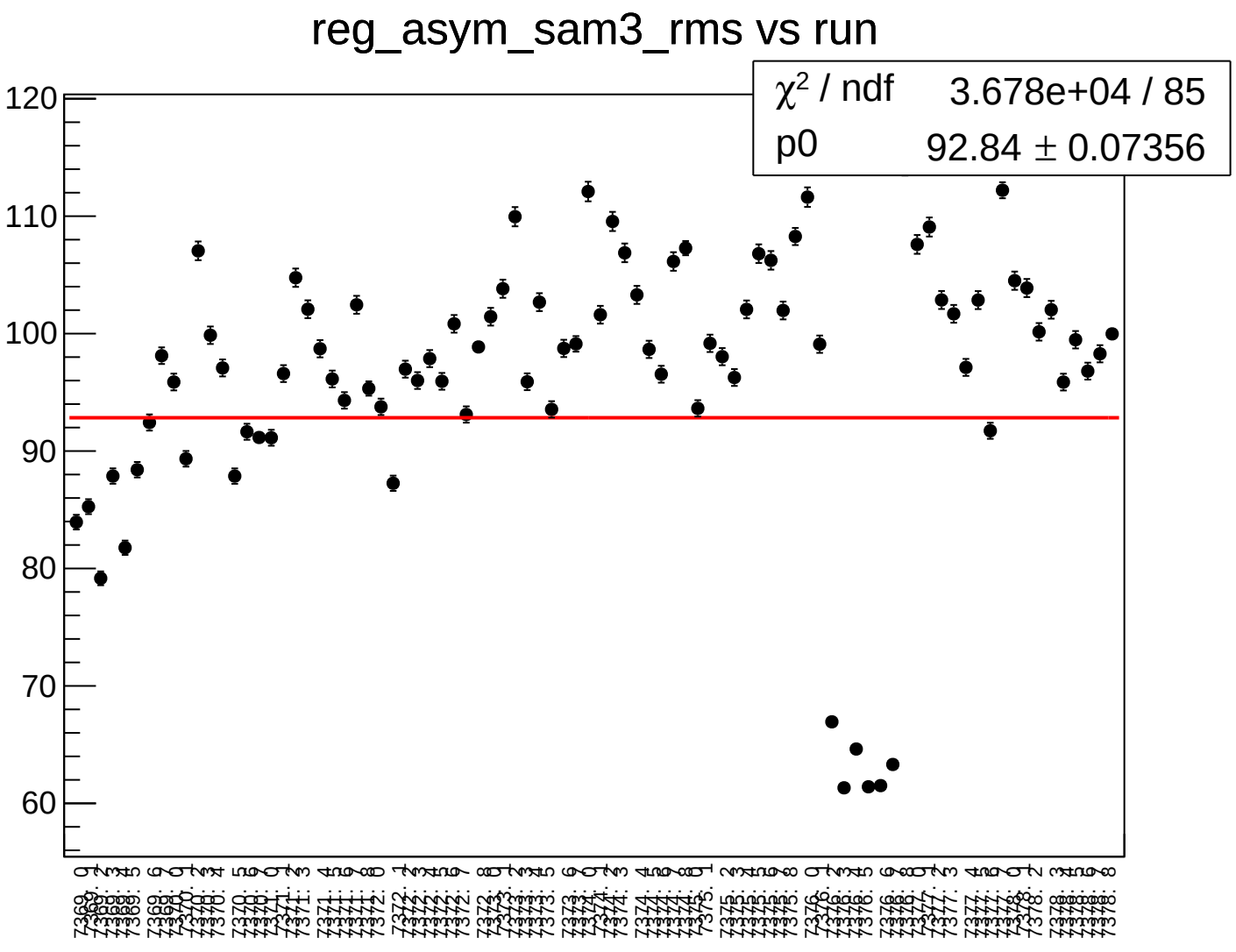

asym_sam2_correction_mean vs run
χ² / ndf 92.4 / 85
p0 842.3 ± 1741
pull
Entries 86
Mean 679.9
Std Dev 686.7

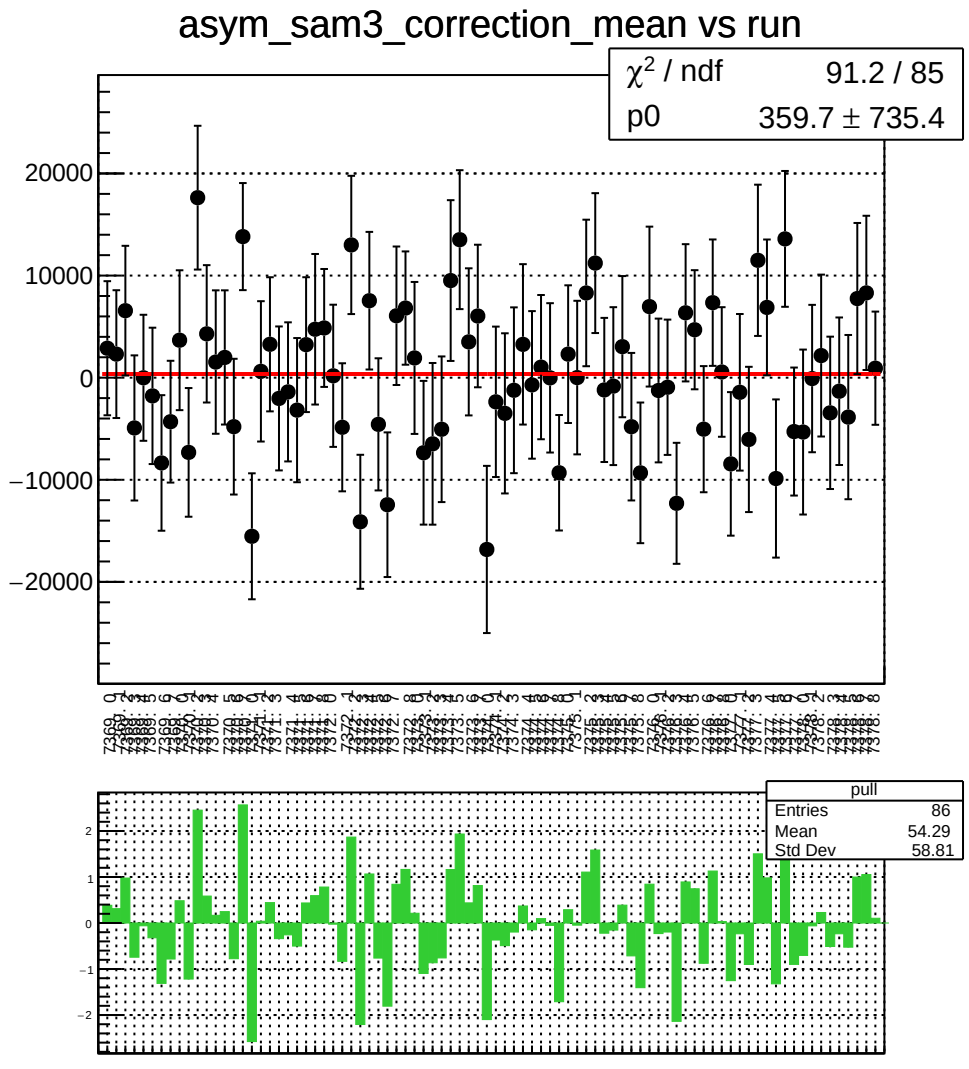

pull1D
Entries 86
Mean −0.002159
Std Dev 1.037

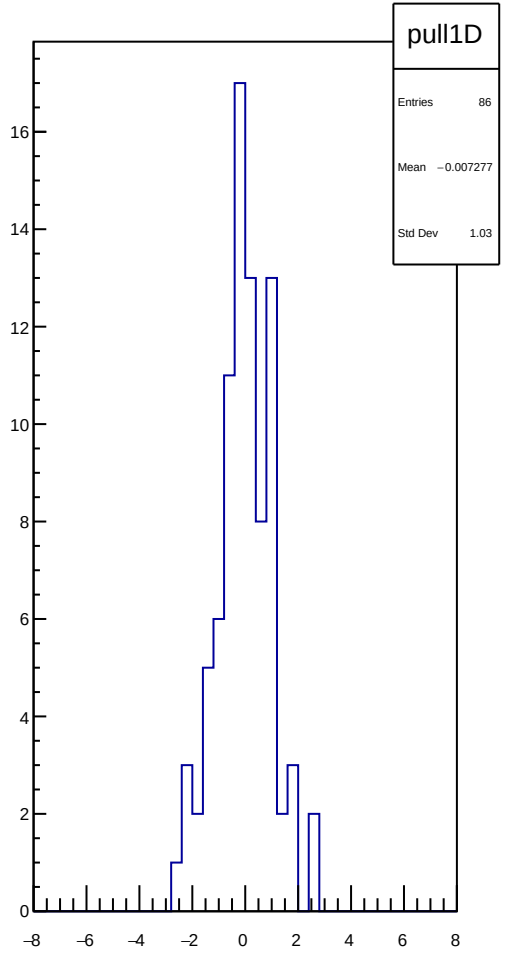

asym_sam2_correction_rms vs run
χ² / ndf 3602 / 85
p0 1570 ± 1.231
1750
1700
1650
1600
1550
1500
1450
1400

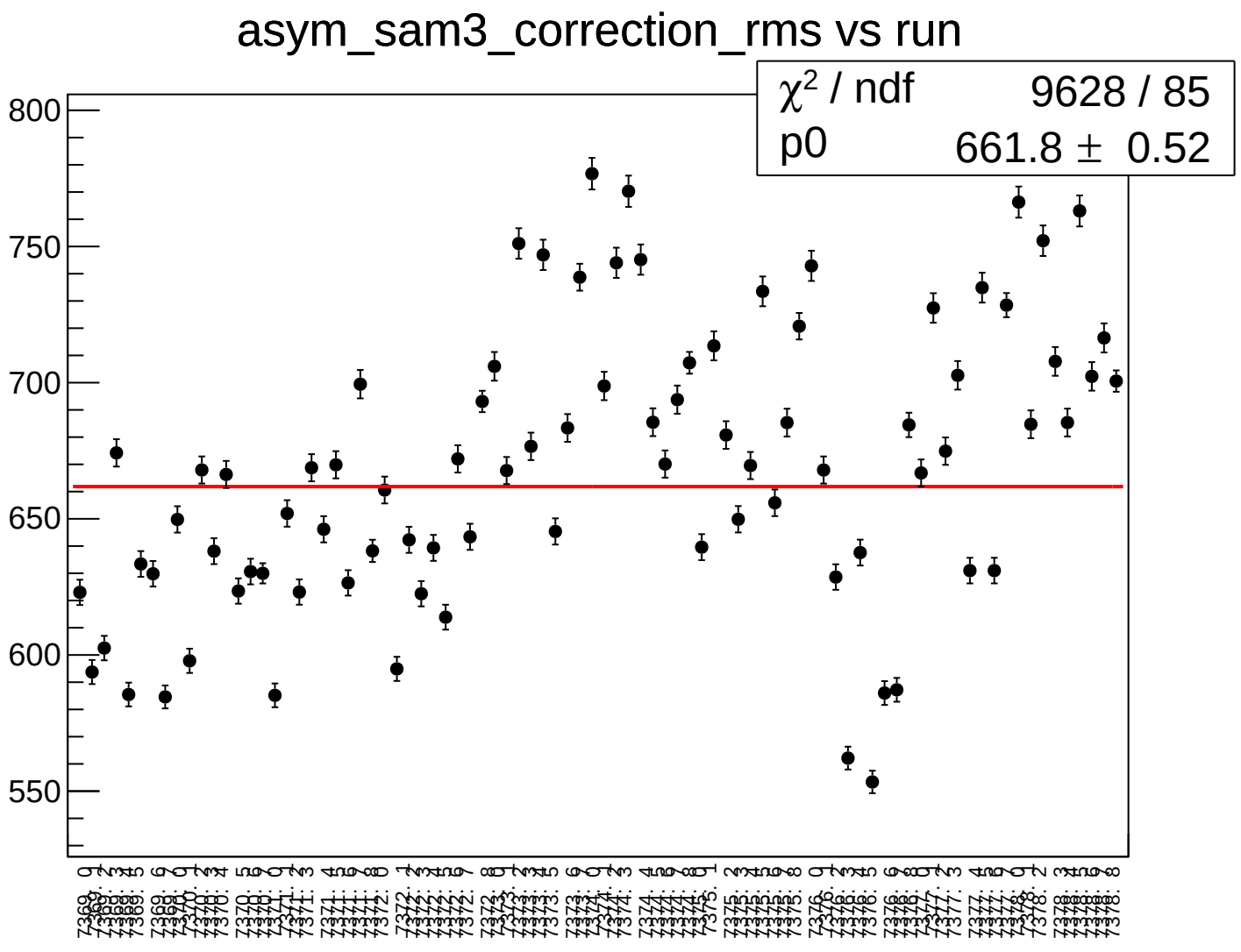

reg_asym_sam3_mean vs run
χ² / ndf 78.26 / 85
p0 209.9 ± 104
pull
Entries 86
Mean −10.38
Std Dev 56.96

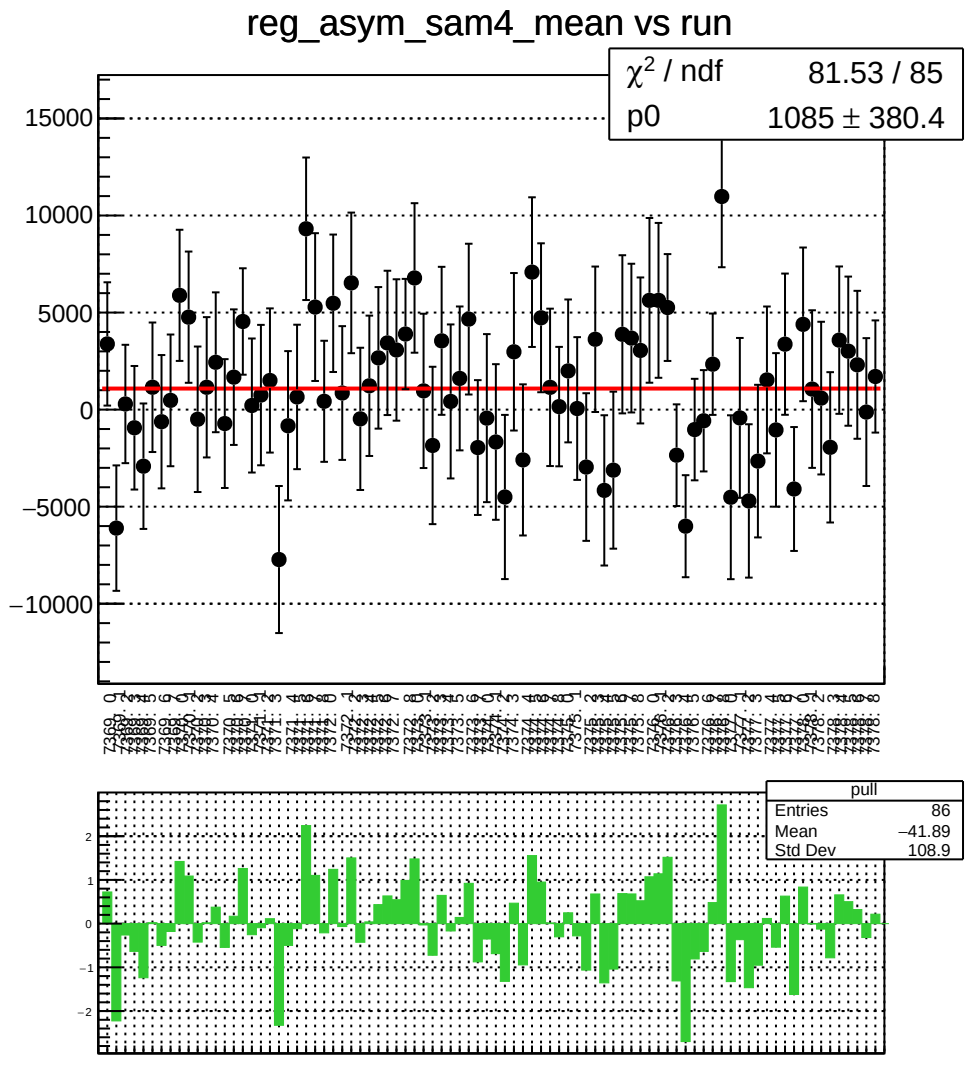

pull1D
Entries 86
Mean 0.03466
Std Dev 0.9533

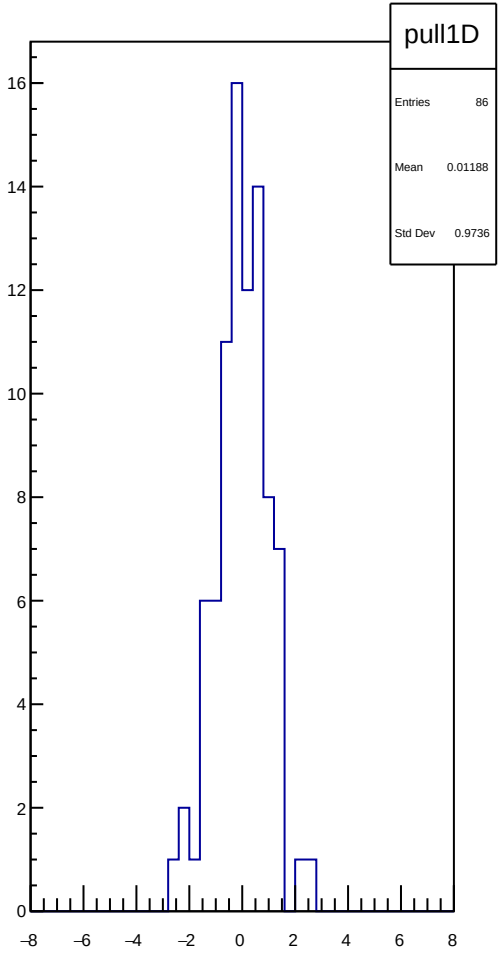

reg_asym_sam3_rms vs run
χ² / ndf 3.678e+04 / 85
p0 92.84 ± 0.07356
120
110
100
90
80
70
60

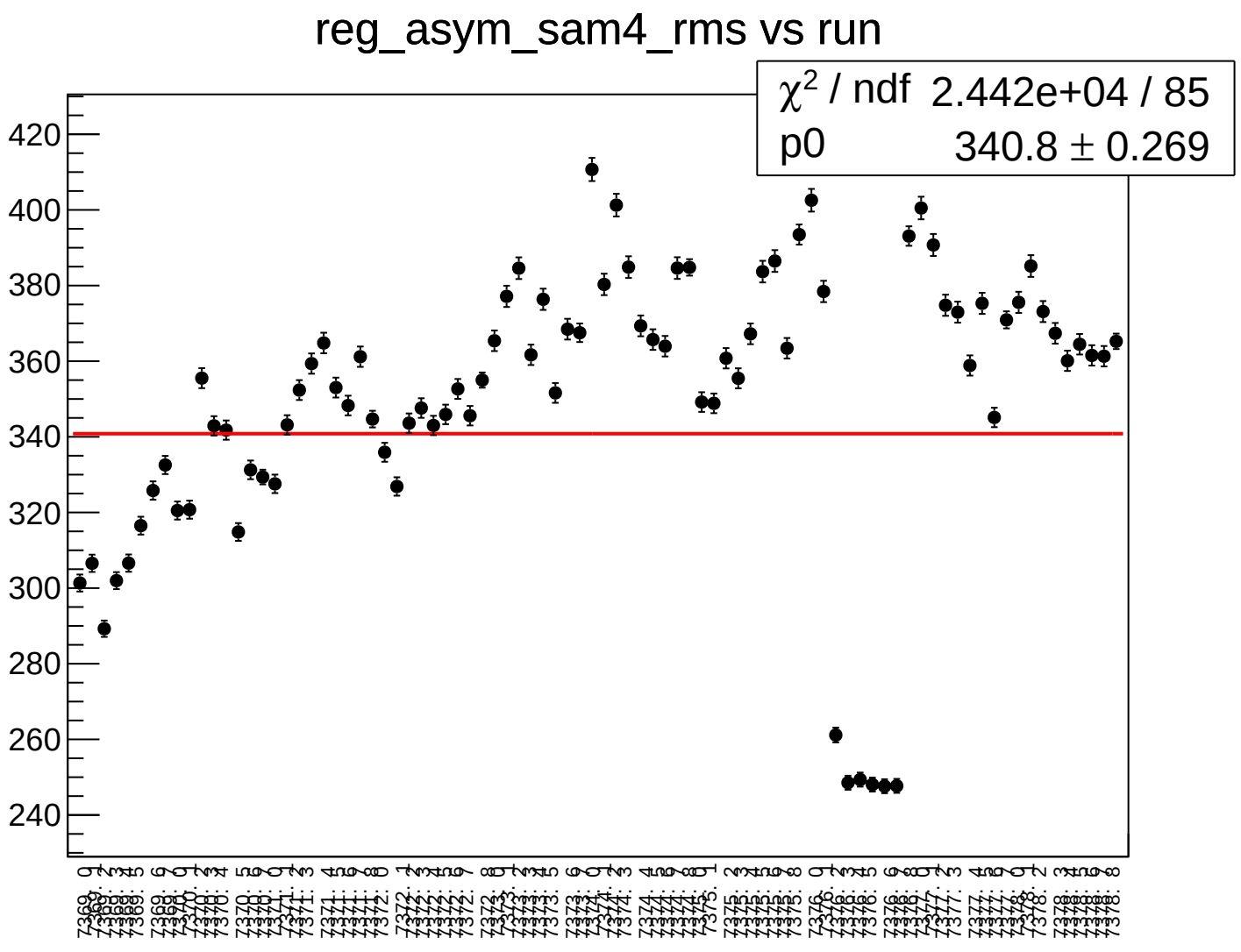

asym_sam3_correction_mean vs run
χ^2 / ndf 91.2 / 85
p0 359.7 ± 735.4
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 54.29
Std Dev 58.81
2
1
0
−1
−2

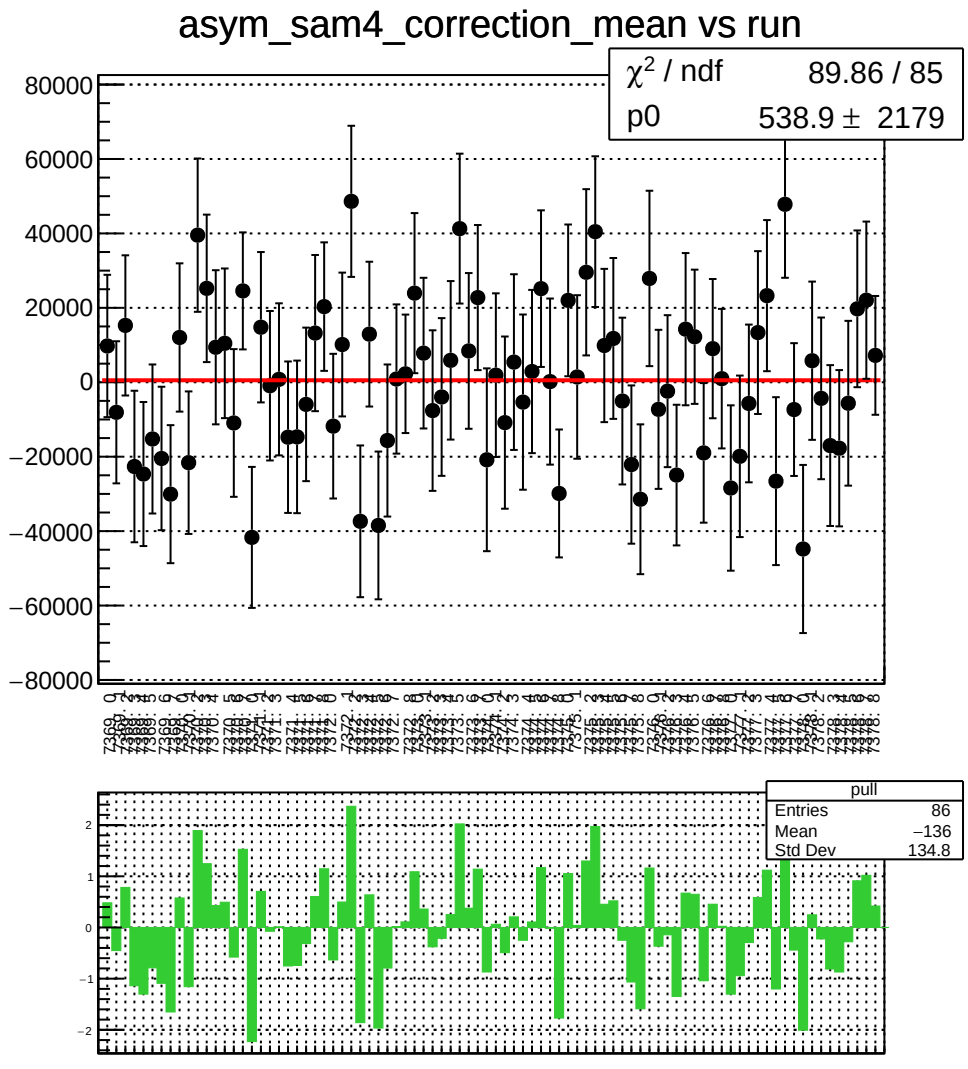

pull1D
Entries 86
Mean −0.007277
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

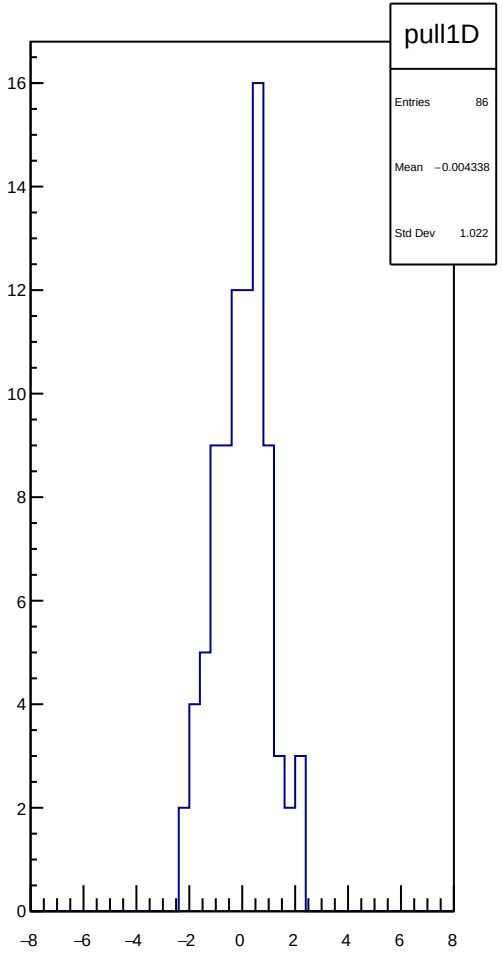

asym_sam3_correction_rms vs run
χ² / ndf 9628 / 85
p0 661.8 ± 0.52
800
750
700
650
600
550

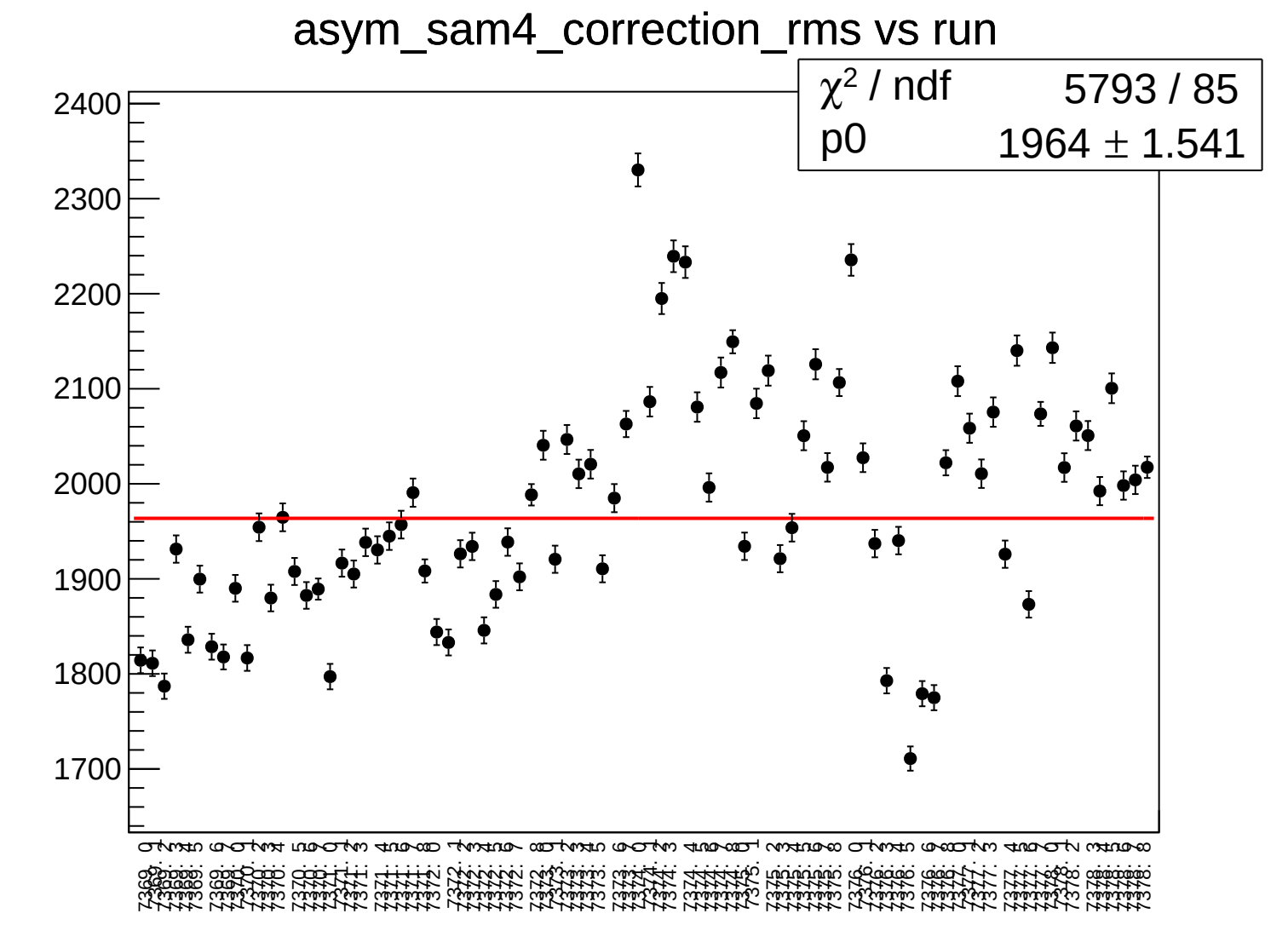

reg_asym_sam4_mean vs run
χ² / ndf 81.53 / 85
p0 1085 ± 380.4
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −41.89
Std Dev 108.9
2
1
0
−1
−2

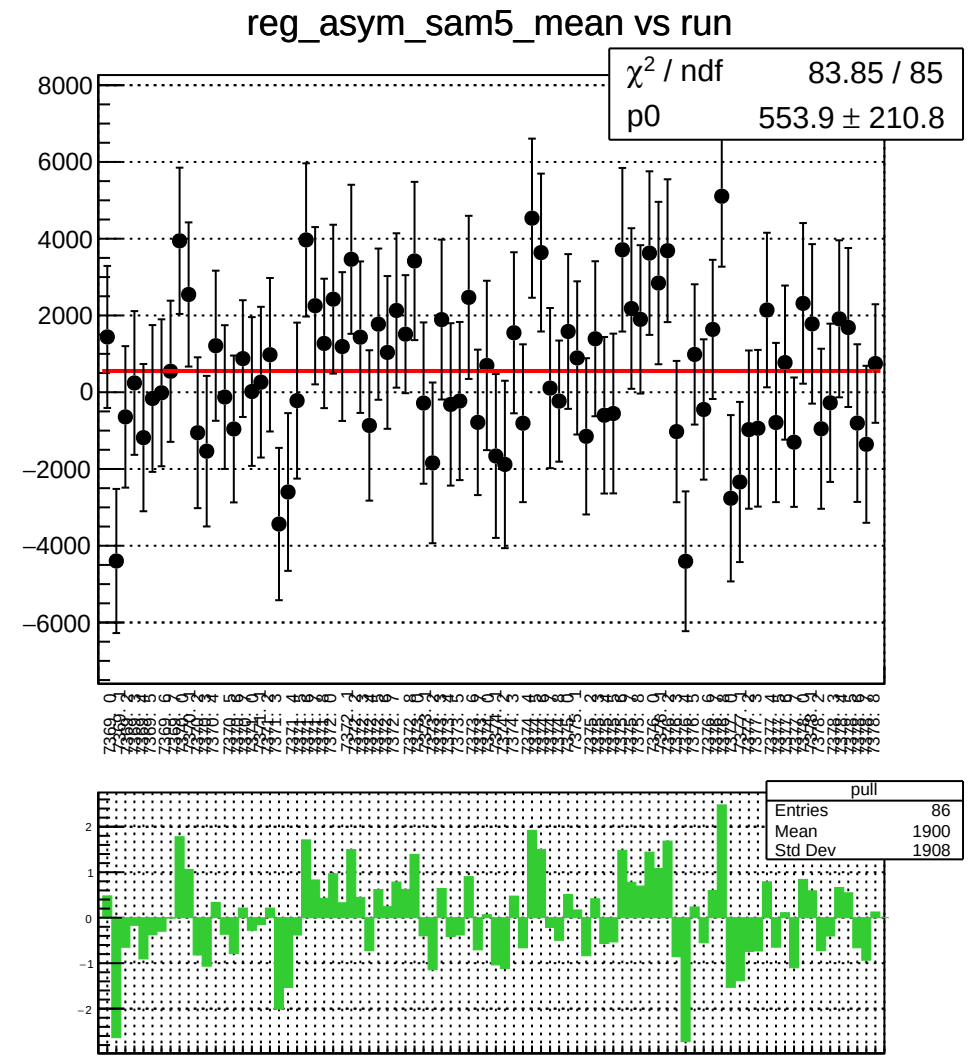

pull1D
Entries 86
Mean 0.01188
Std Dev 0.9736
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

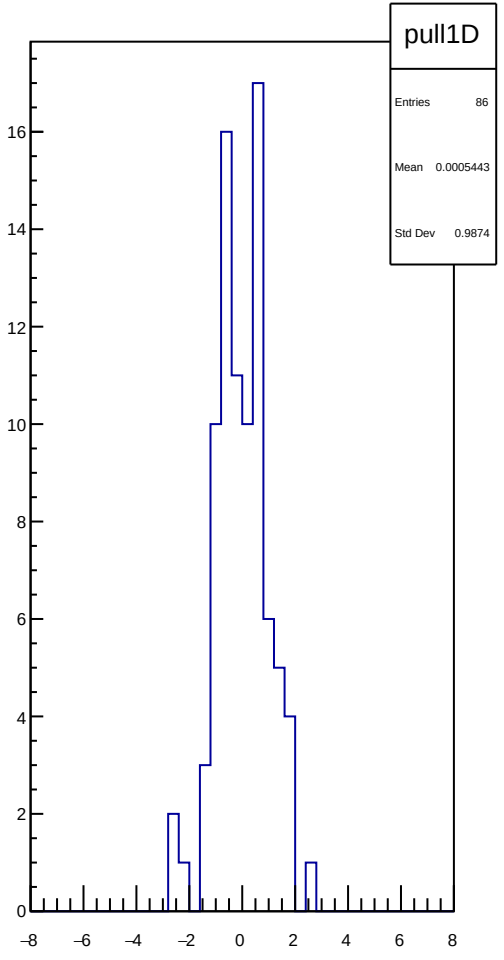

reg_asym_sam4_rms vs run
χ² / ndf 2.442e+04 / 85
p0 340.8 ± 0.269
420
400
380
360
340
320
300
280
260
240

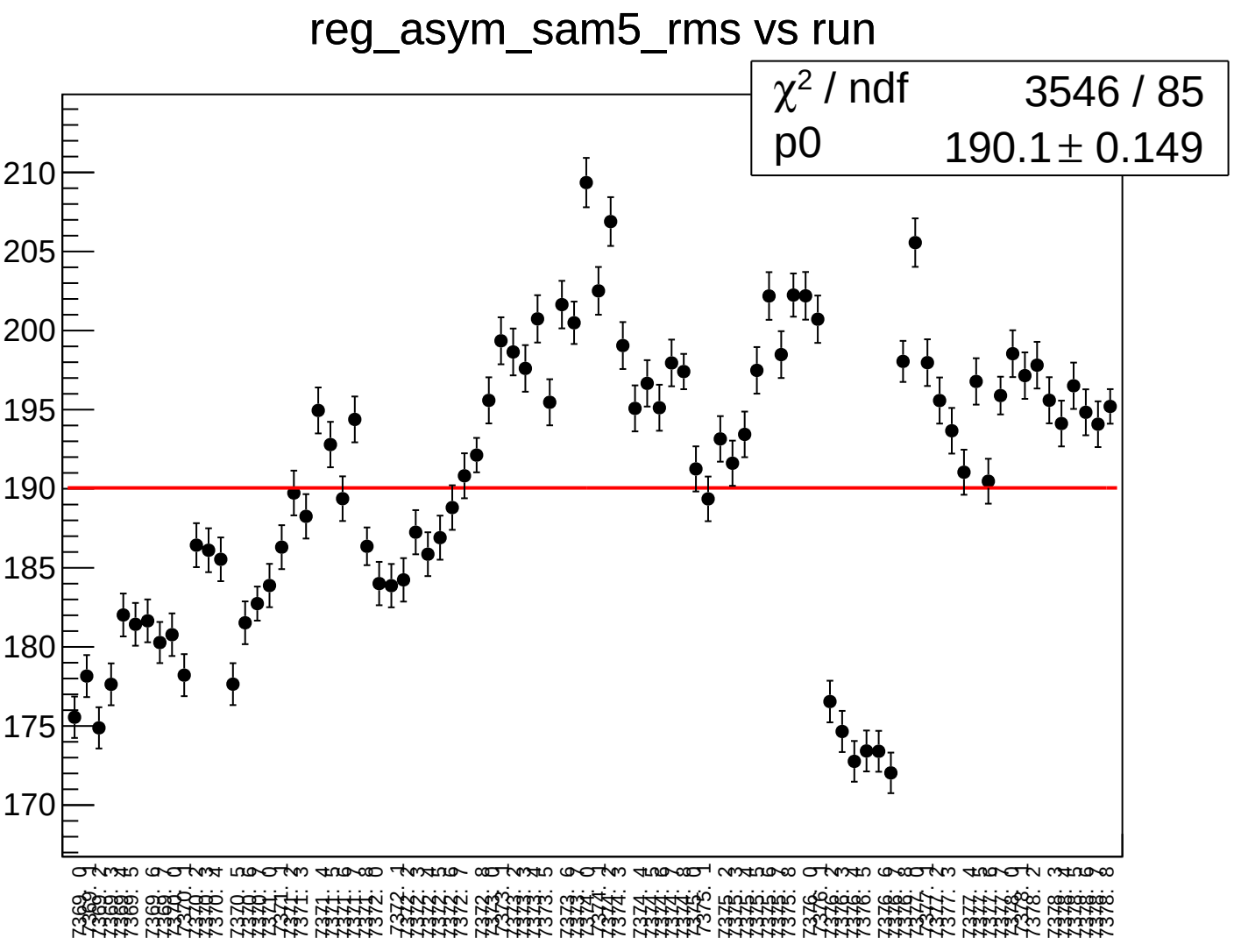

asym_sam4_correction_mean vs run
χ² / ndf 89.86 / 85
p0 538.9 ± 2179
pull
Entries 86
Mean −136
Std Dev 134.8

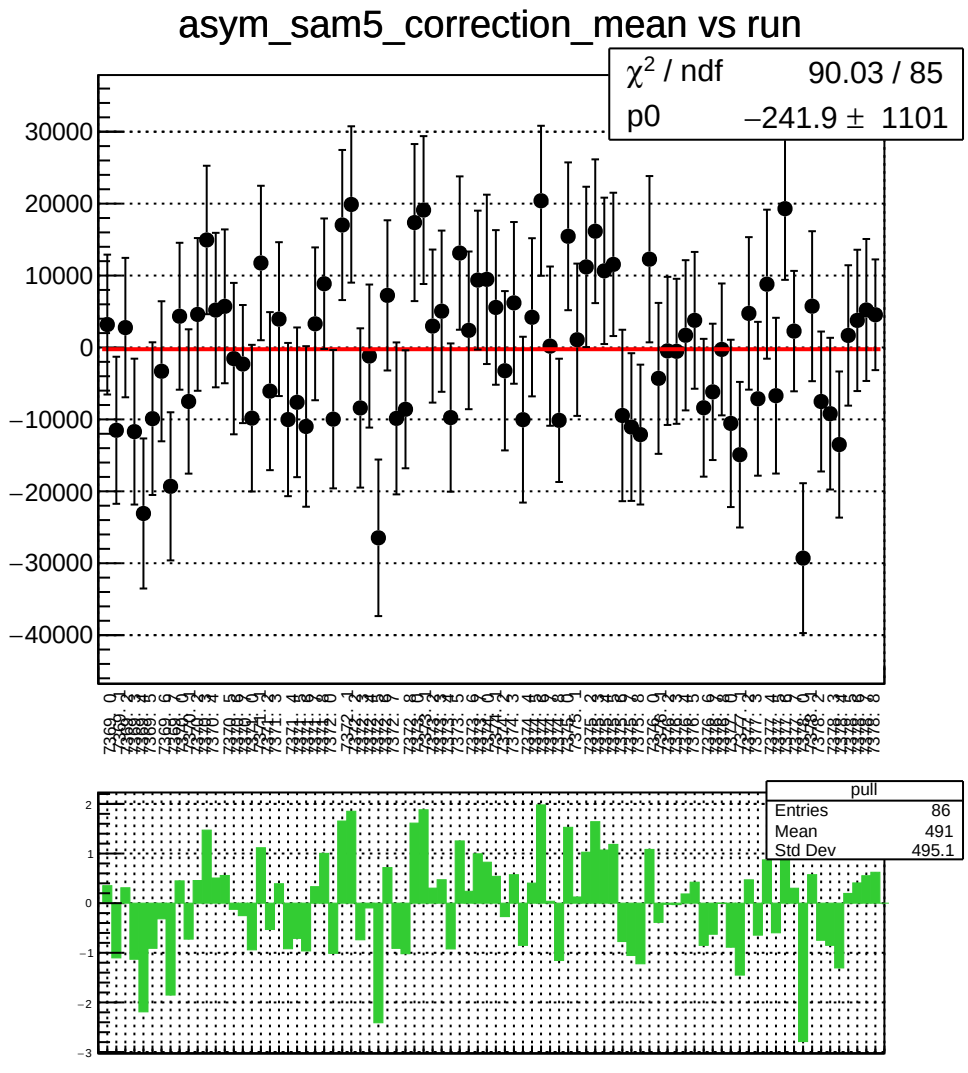

pull1D
Entries 86
Mean −0.004338
Std Dev 1.022

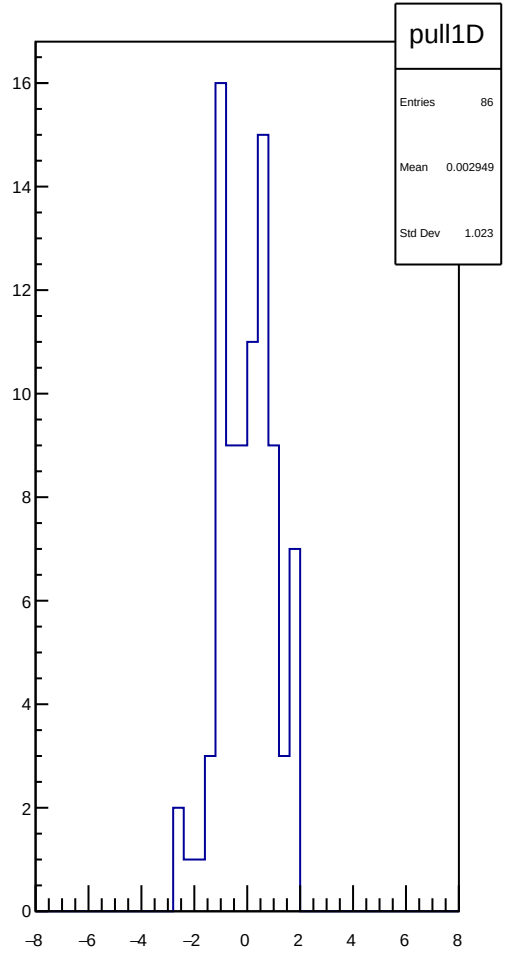

asym_sam4_correction_rms vs run
χ² / ndf 5793 / 85
p0 1964 ± 1.541
2400
2300
2200
2100
2000
1900
1800
1700

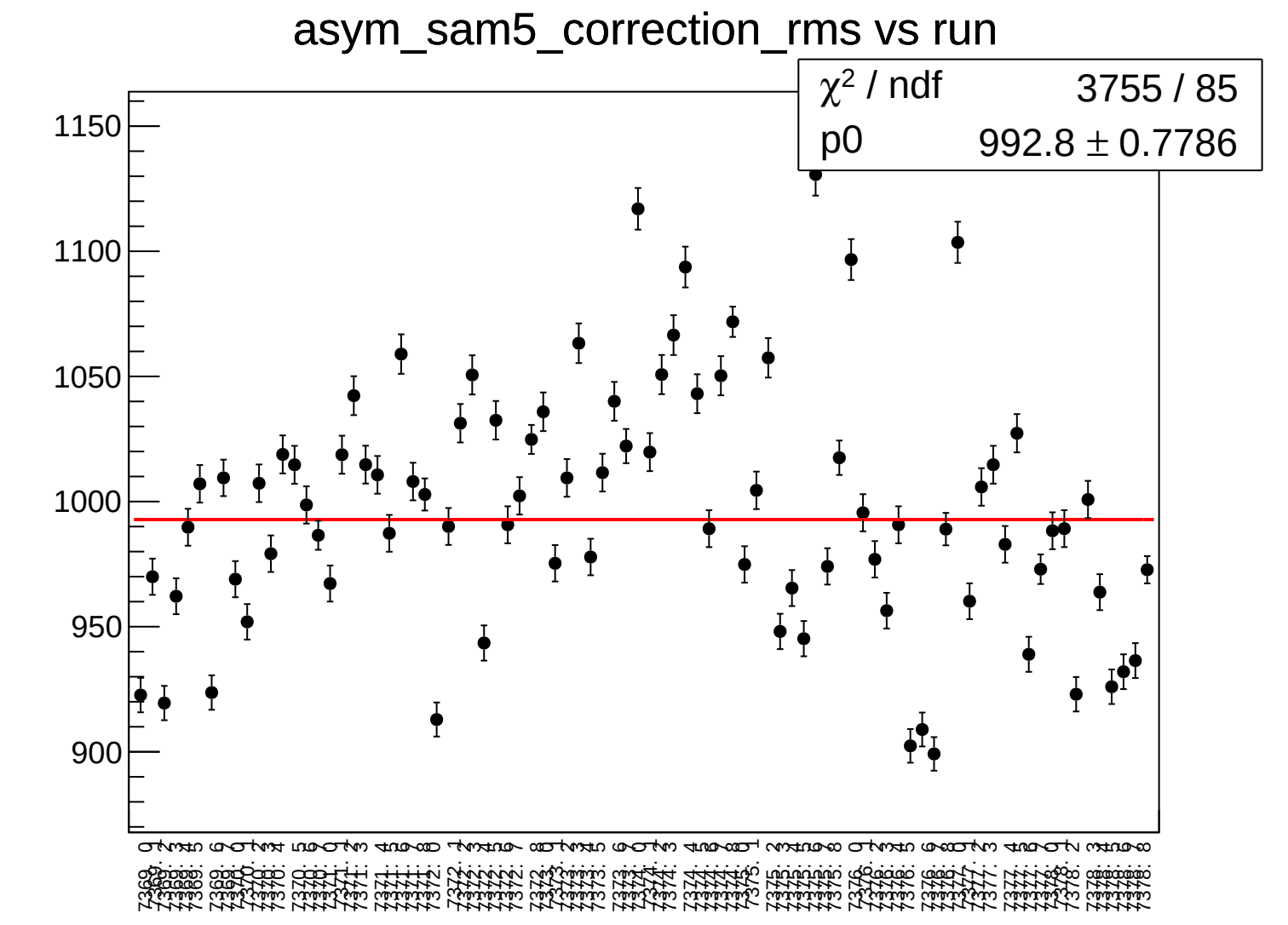

reg_asym_sam5_mean vs run
χ^2 / ndf 83.85 / 85
p0 553.9 ± 210.8
pull
Entries 86
Mean 1900
Std Dev 1908

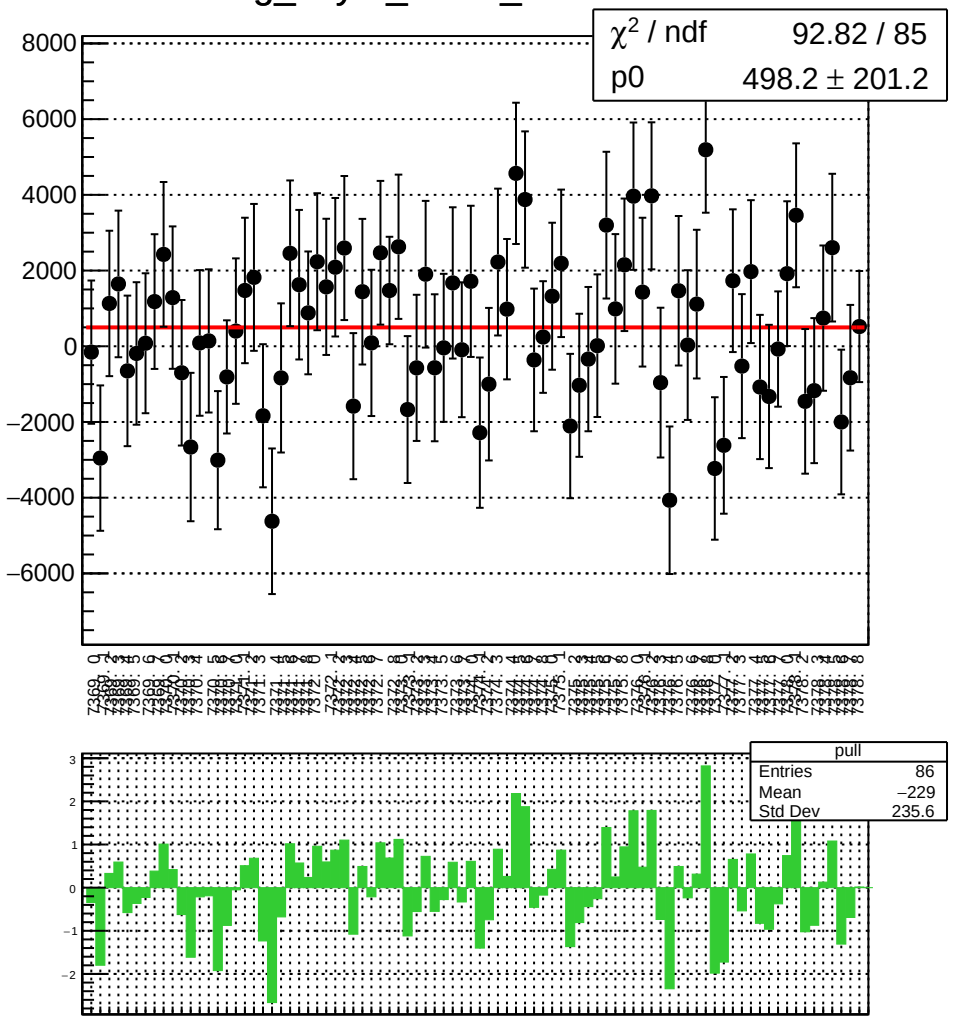

pull1D
Entries 86
Mean 0.0005443
Std Dev 0.9874

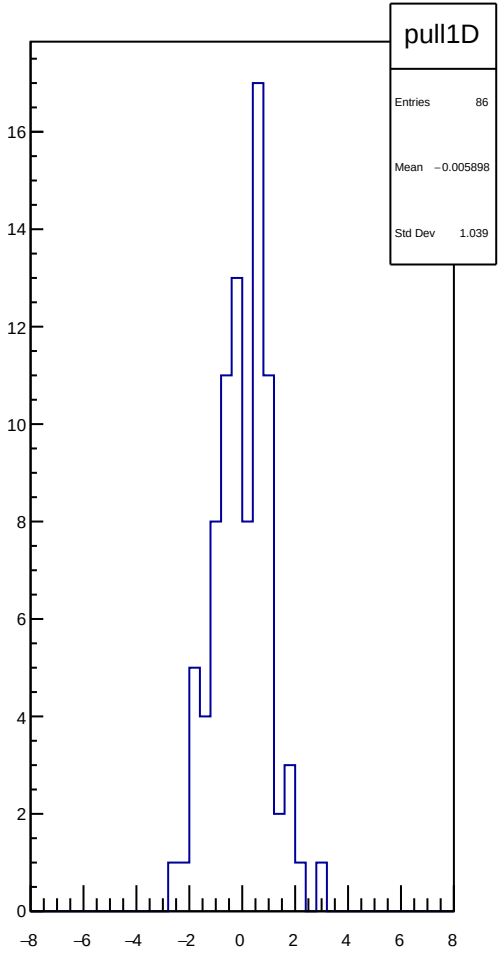

reg_asym_sam5_rms vs run
χ² / ndf 3546 / 85
p0 190.1 ± 0.149
210
205
200
195
190
185
180
175
170

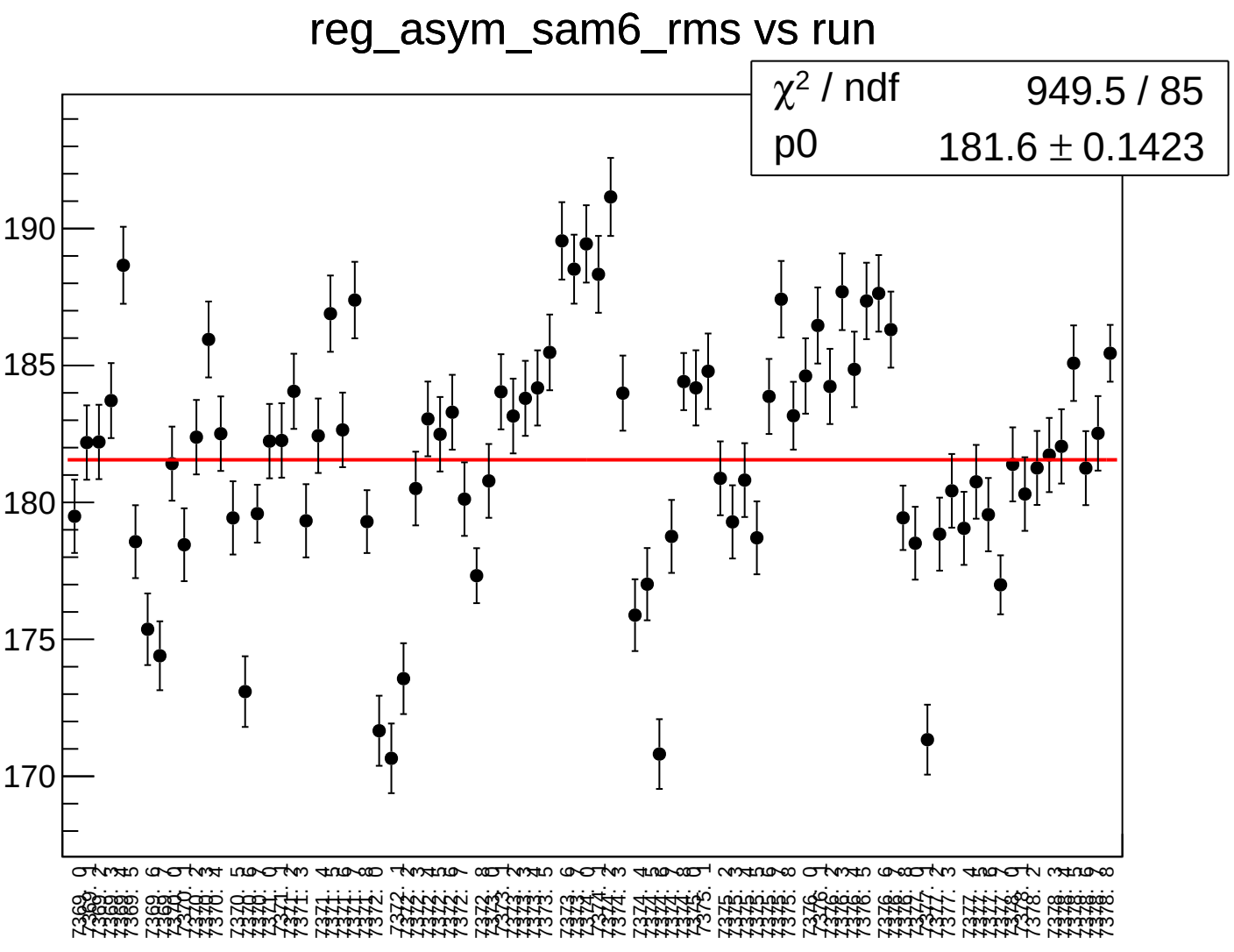

asym_sam5_correction_mean vs run
χ² / ndf 90.03 / 85
p0 −241.9 ± 1101
pull
Entries 86
Mean 491
Std Dev 495.1

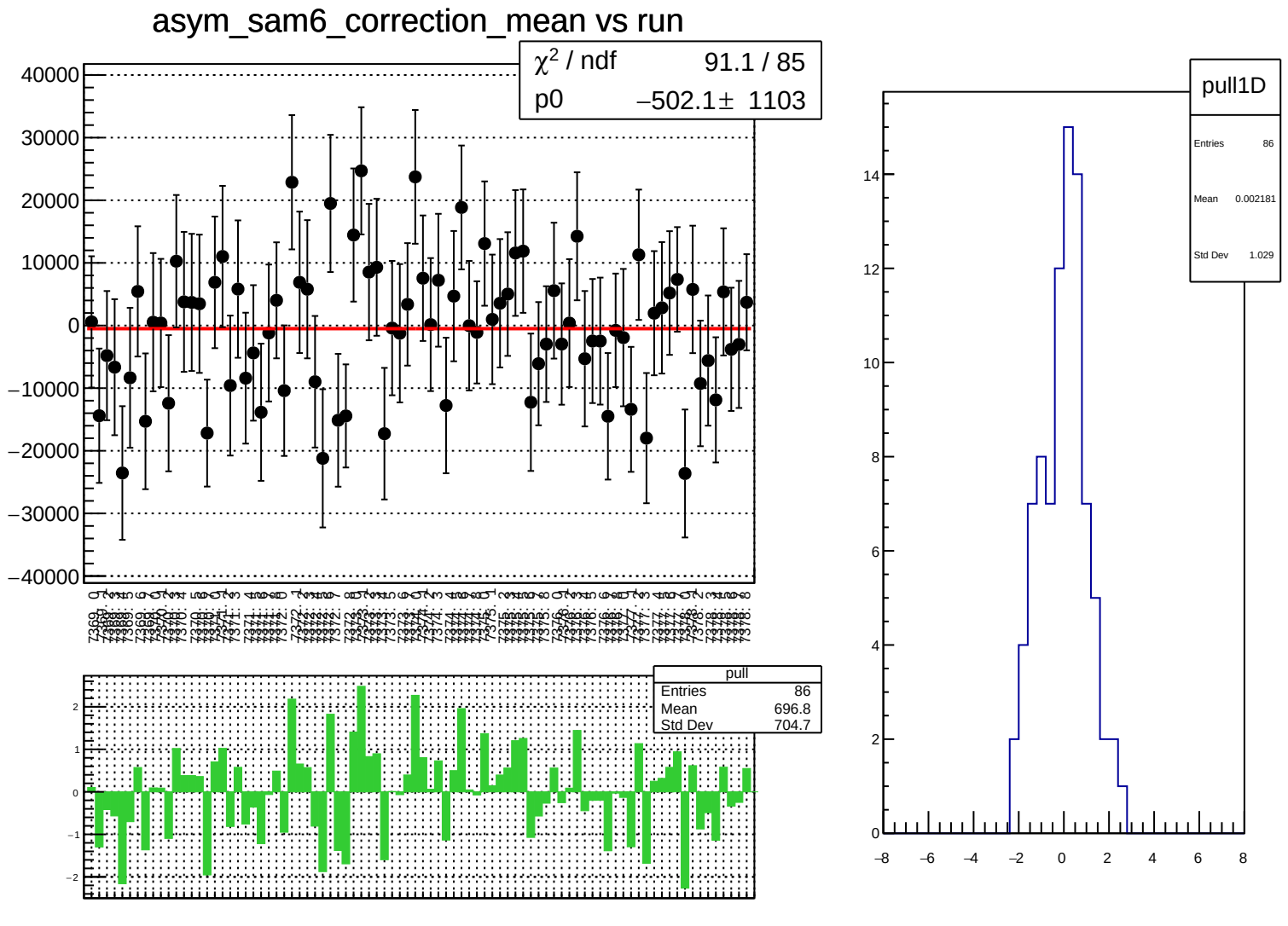

pull1D
Entries 86
Mean 0.002949
Std Dev 1.023

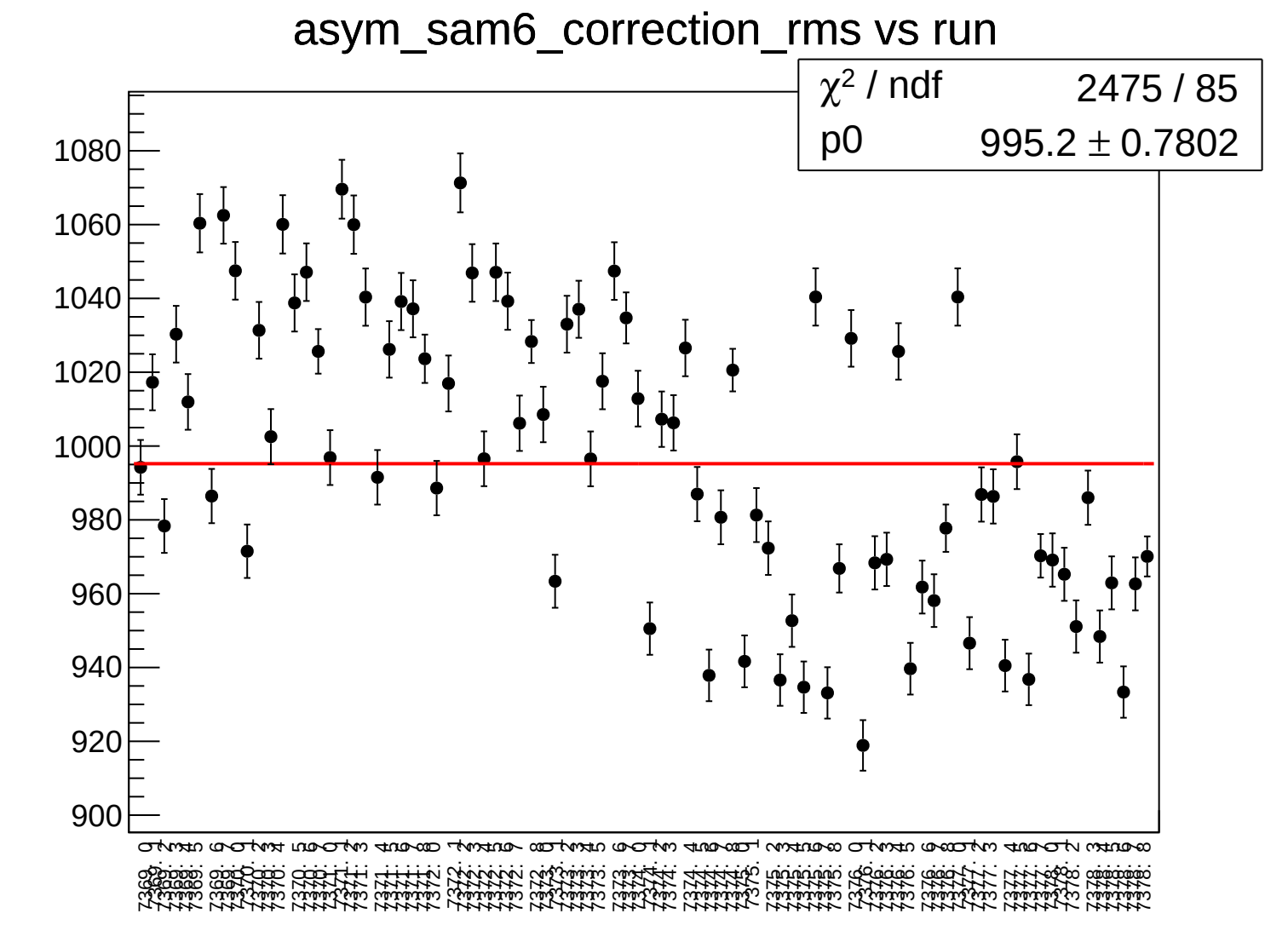

asym_sam5_correction_rms vs run
χ² / ndf 3755 / 85
p0 992.8 ± 0.7786
1150
1100
1050
1000
950
900

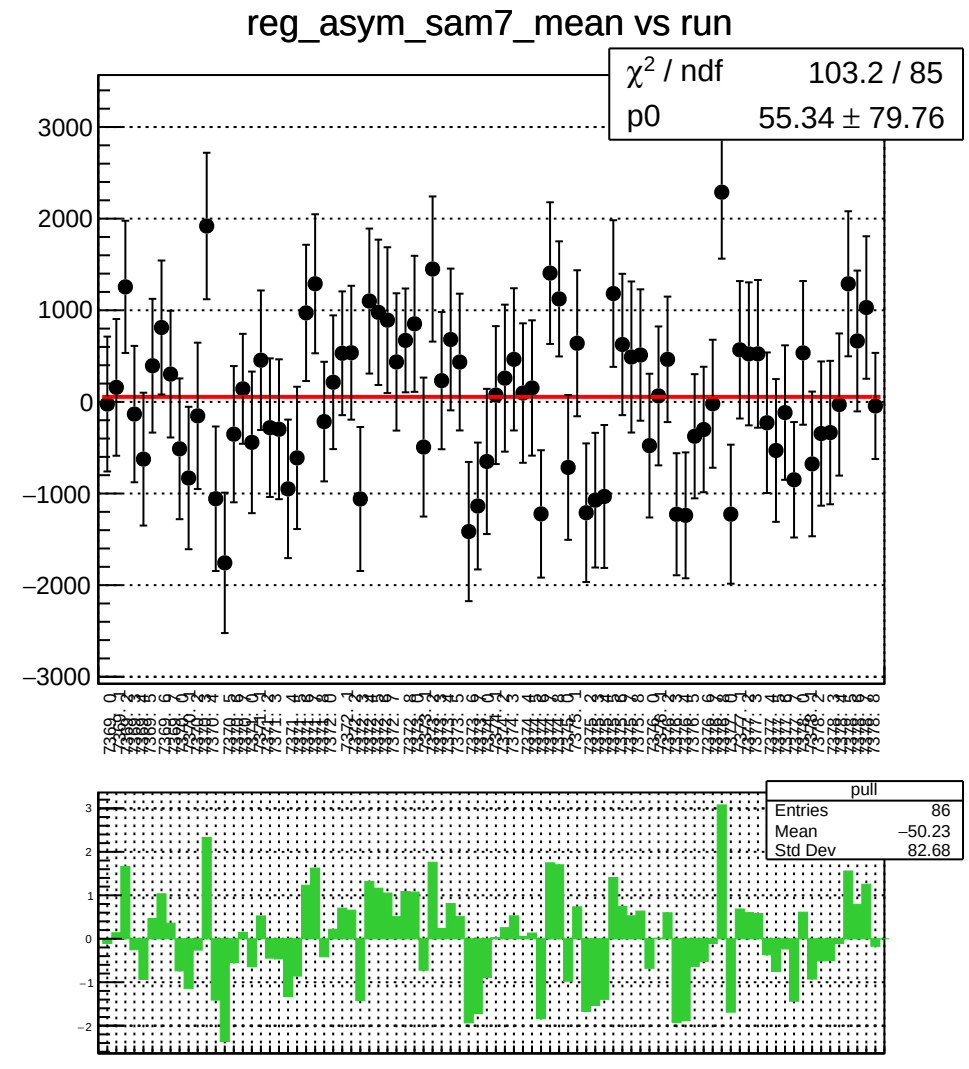

reg_asym_sam6_mean vs run
χ² / ndf 92.82 / 85
p0 498.2 ± 201.2
pull
Entries 86
Mean −229
Std Dev 235.6

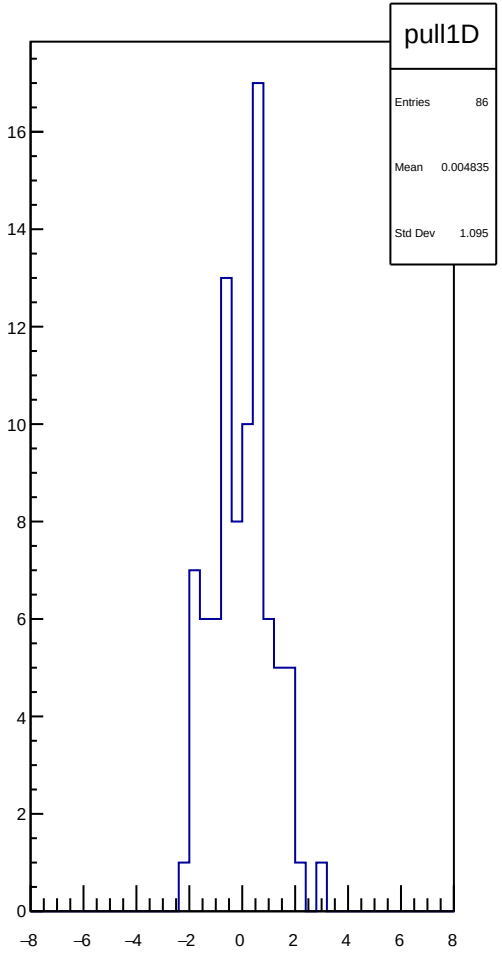

pull1D
Entries 86
Mean −0.005898
Std Dev 1.039

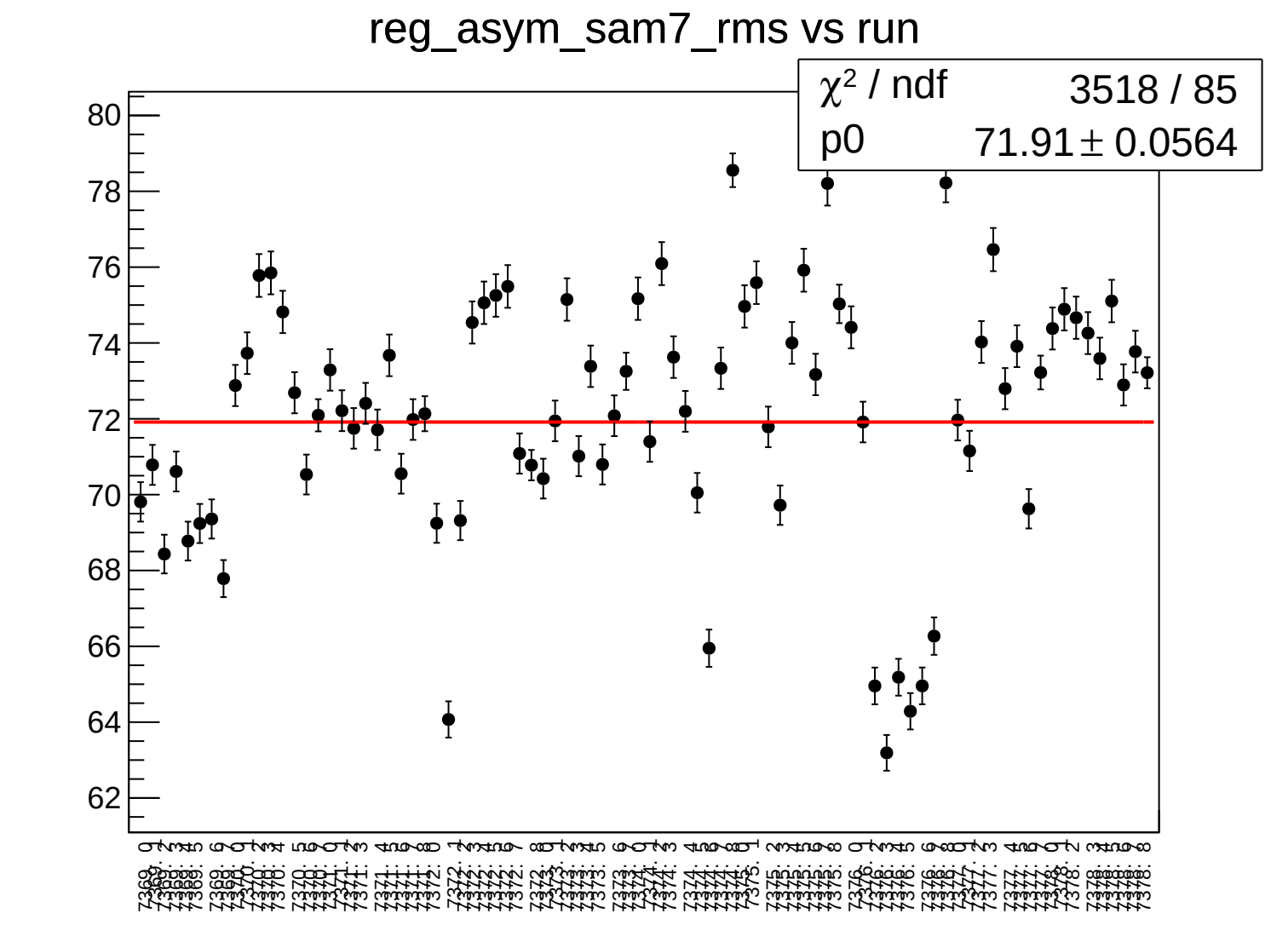

reg_asym_sam6_rms vs run
χ² / ndf 949.5 / 85
p0 181.6 ± 0.1423
190
185
180
175
170

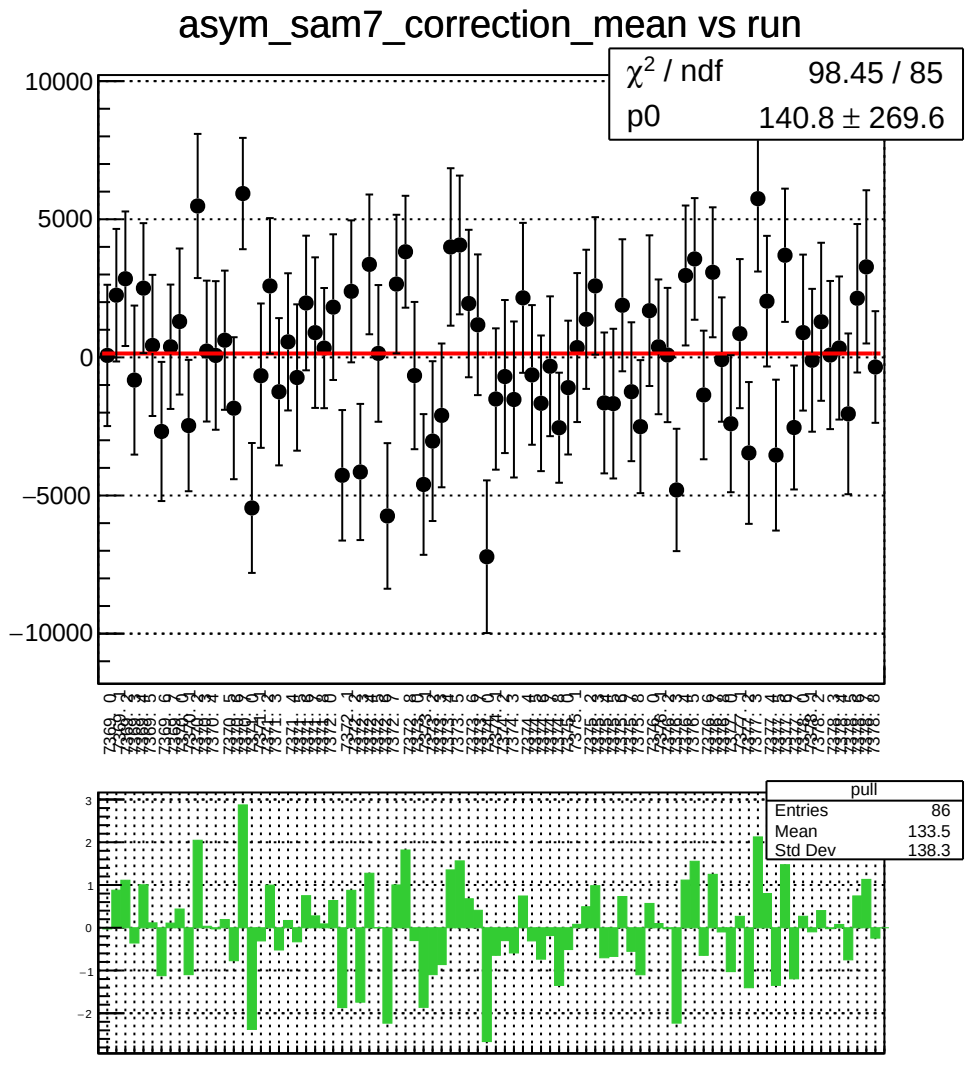

asym_sam6_correction_mean vs run
χ² / ndf 91.1 / 85
p0 −502.1± 1103
pull
Entries 86
Mean 696.8
Std Dev 704.7
pull1D
Entries 86
Mean 0.002181
Std Dev 1.029

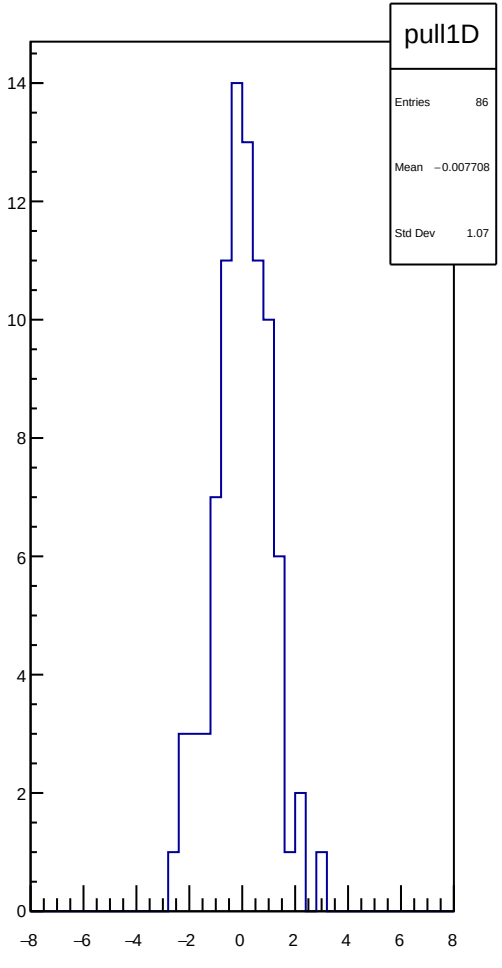

asym_sam6_correction_rms vs run
χ² / ndf 2475 / 85
p0 995.2 ± 0.7802
1080
1060
1040
1020
1000
980
960
940
920
900

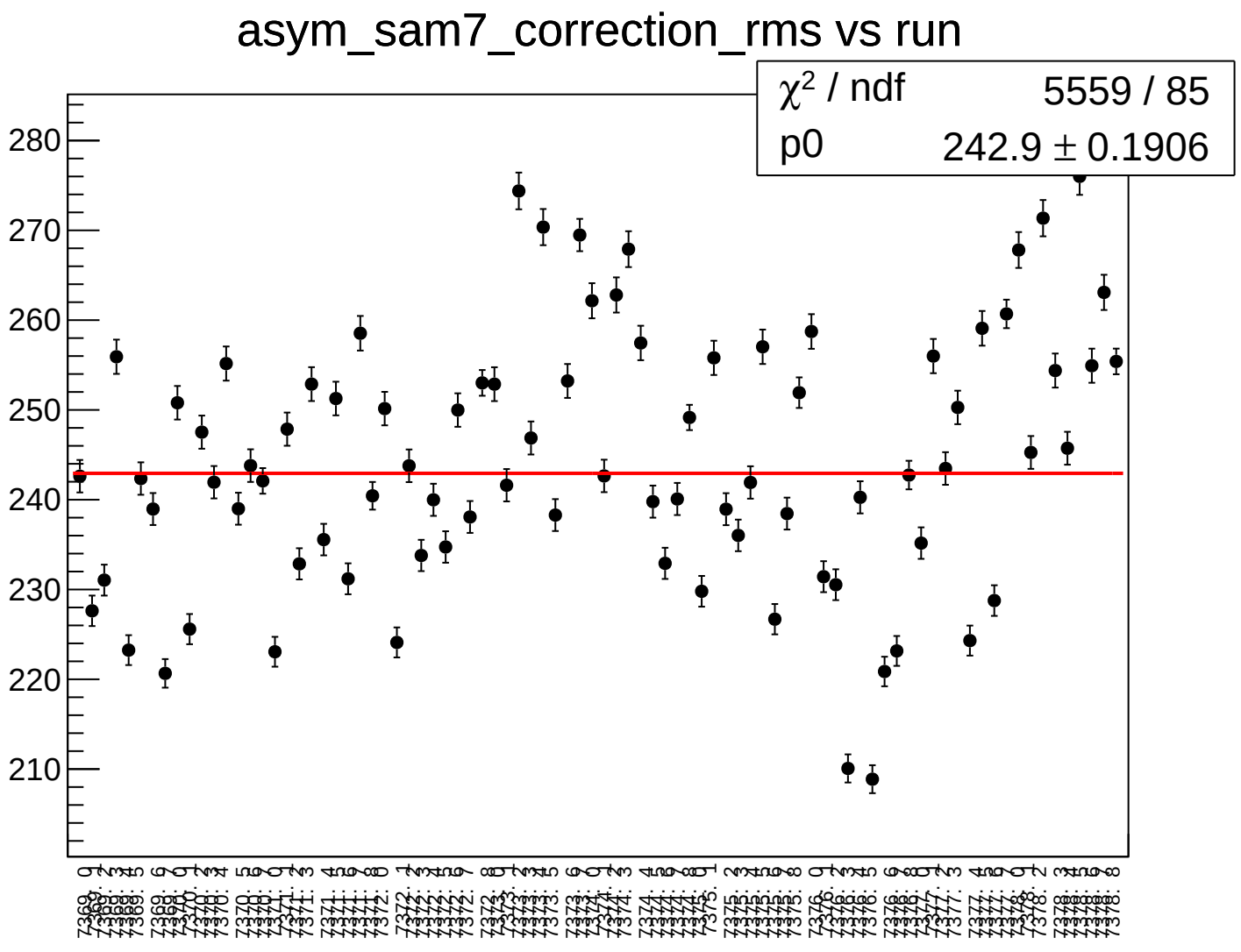

reg_asym_sam7_mean vs run
χ² / ndf 103.2 / 85
p0 55.34 ± 79.76
pull
Entries 86
Mean −50.23
Std Dev 82.68

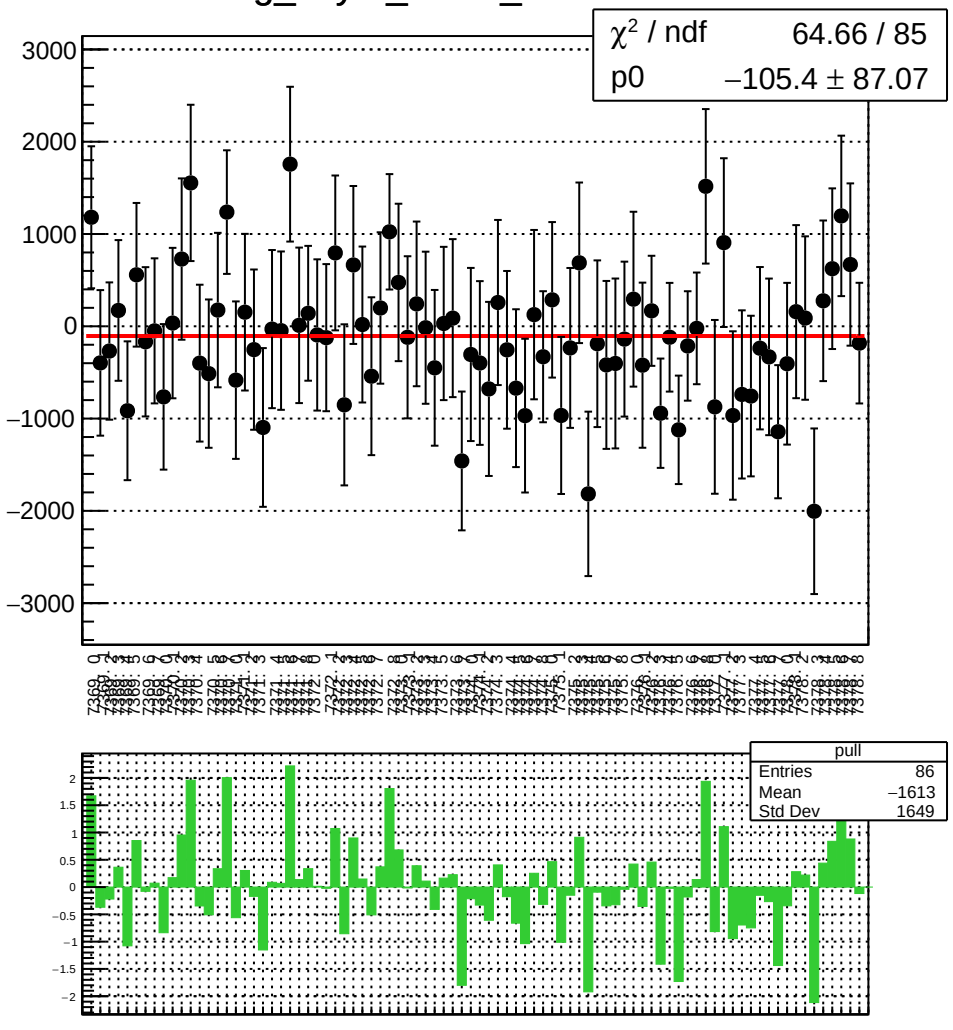

pull1D
Entries 86
Mean 0.004835
Std Dev 1.095

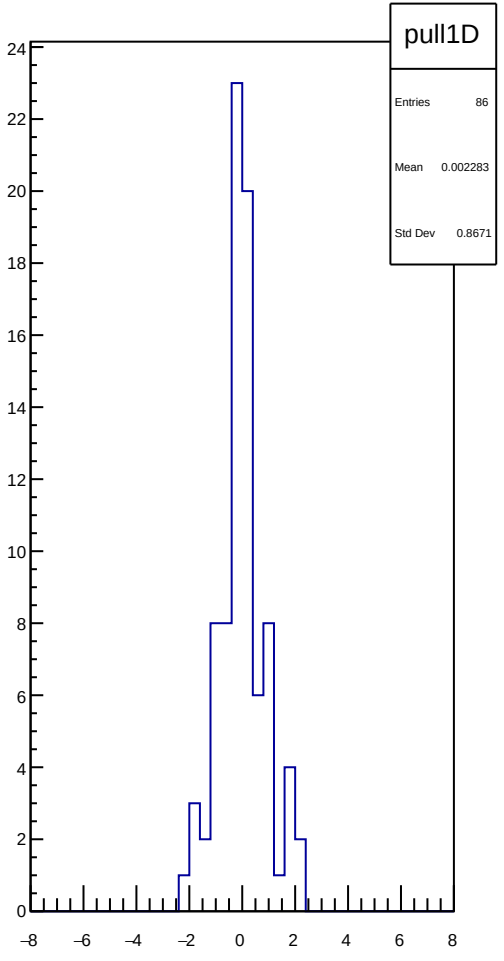

reg_asym_sam7_rms vs run
χ² / ndf 3518 / 85
p0 71.91 ± 0.0564
80
78
76
74
72
70
68
66
64
62

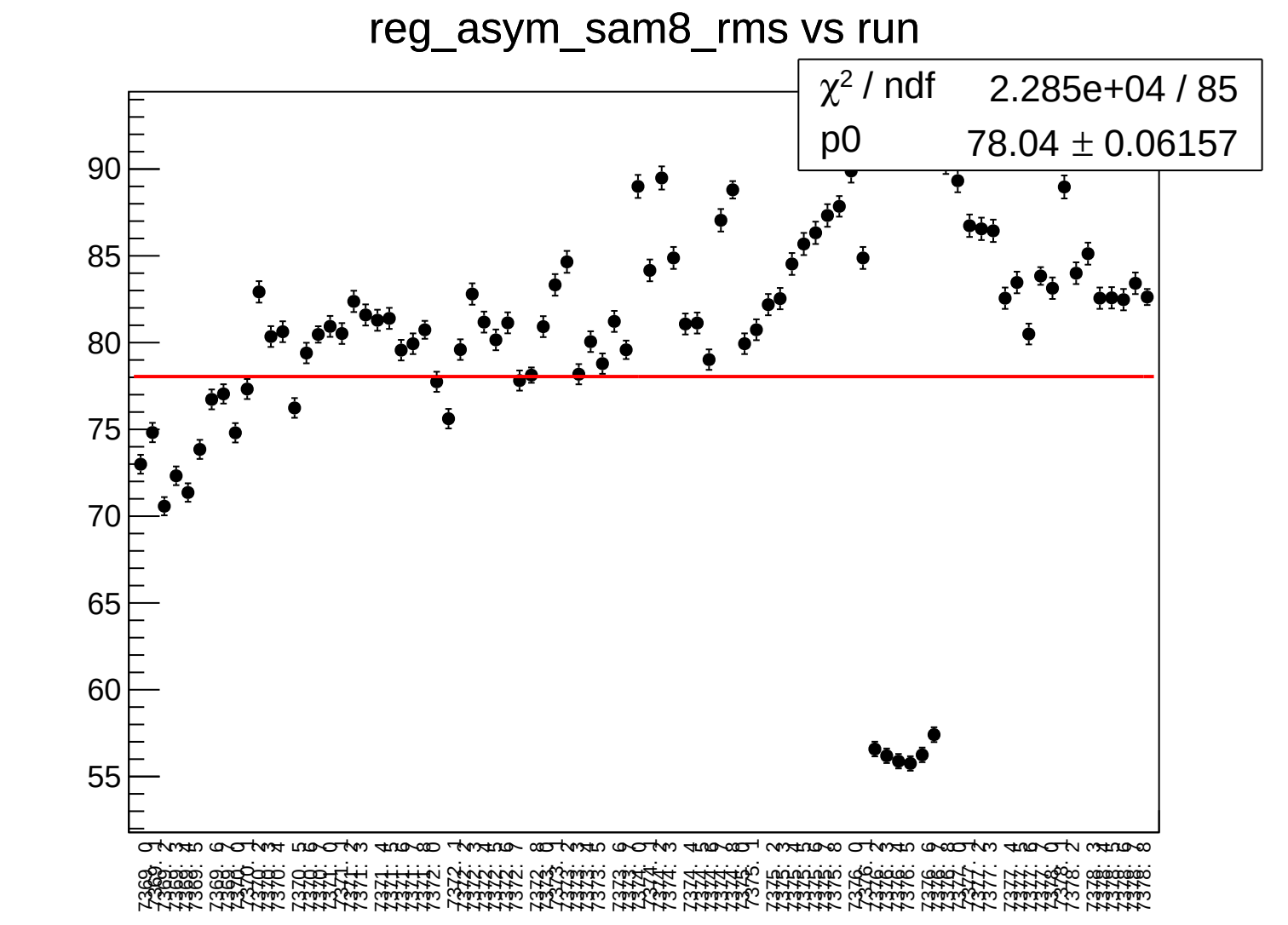

asym_sam7_correction_mean vs run
χ² / ndf 98.45 / 85
p0 140.8 ± 269.6
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 133.5
Std Dev 138.3
3
2
1
0
−1
−2

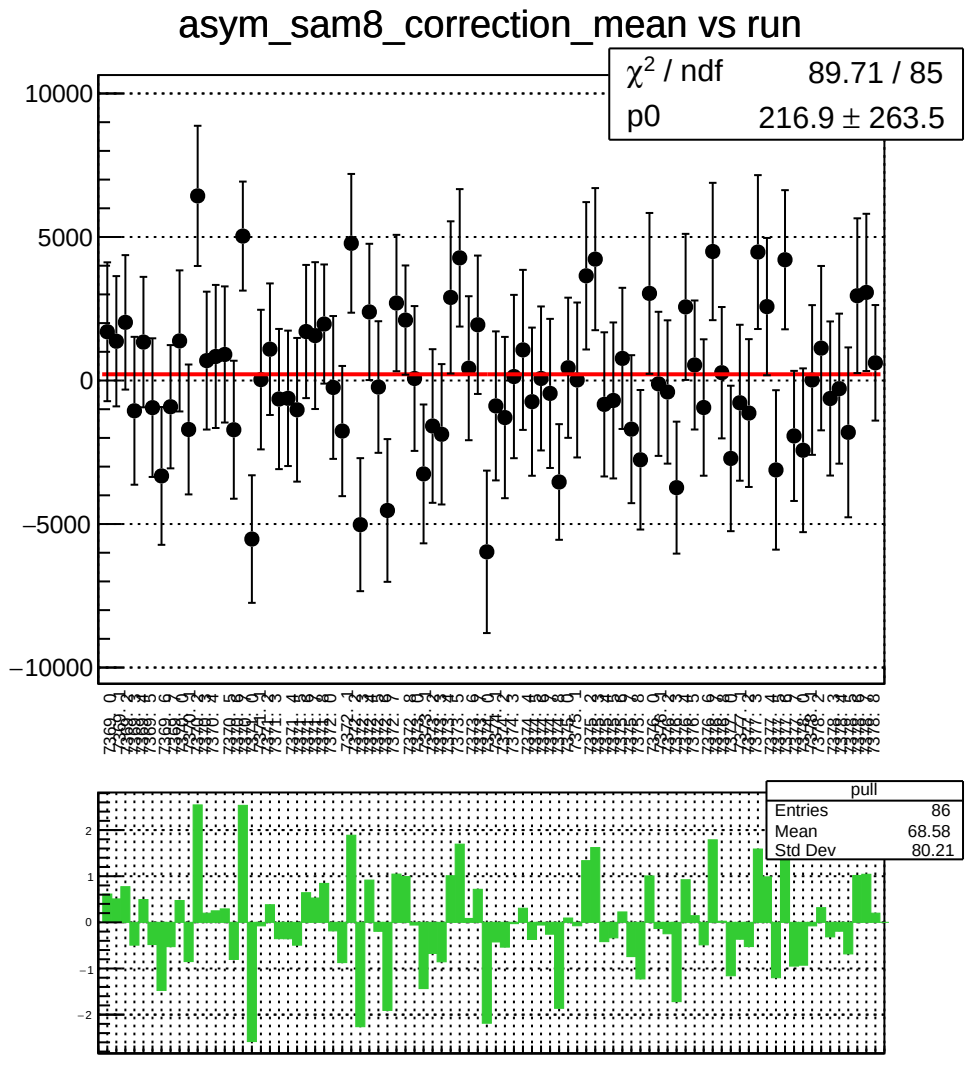

pull1D
Entries 86
Mean −0.007708
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

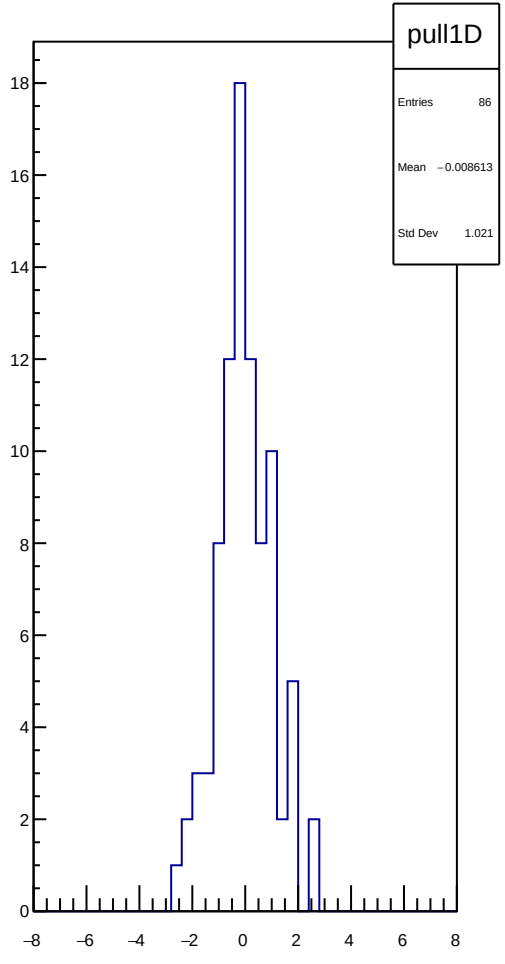

asym_sam7_correction_rms vs run
χ² / ndf 5559 / 85
p0 242.9 ± 0.1906
280
270
260
250
240
230
220
210

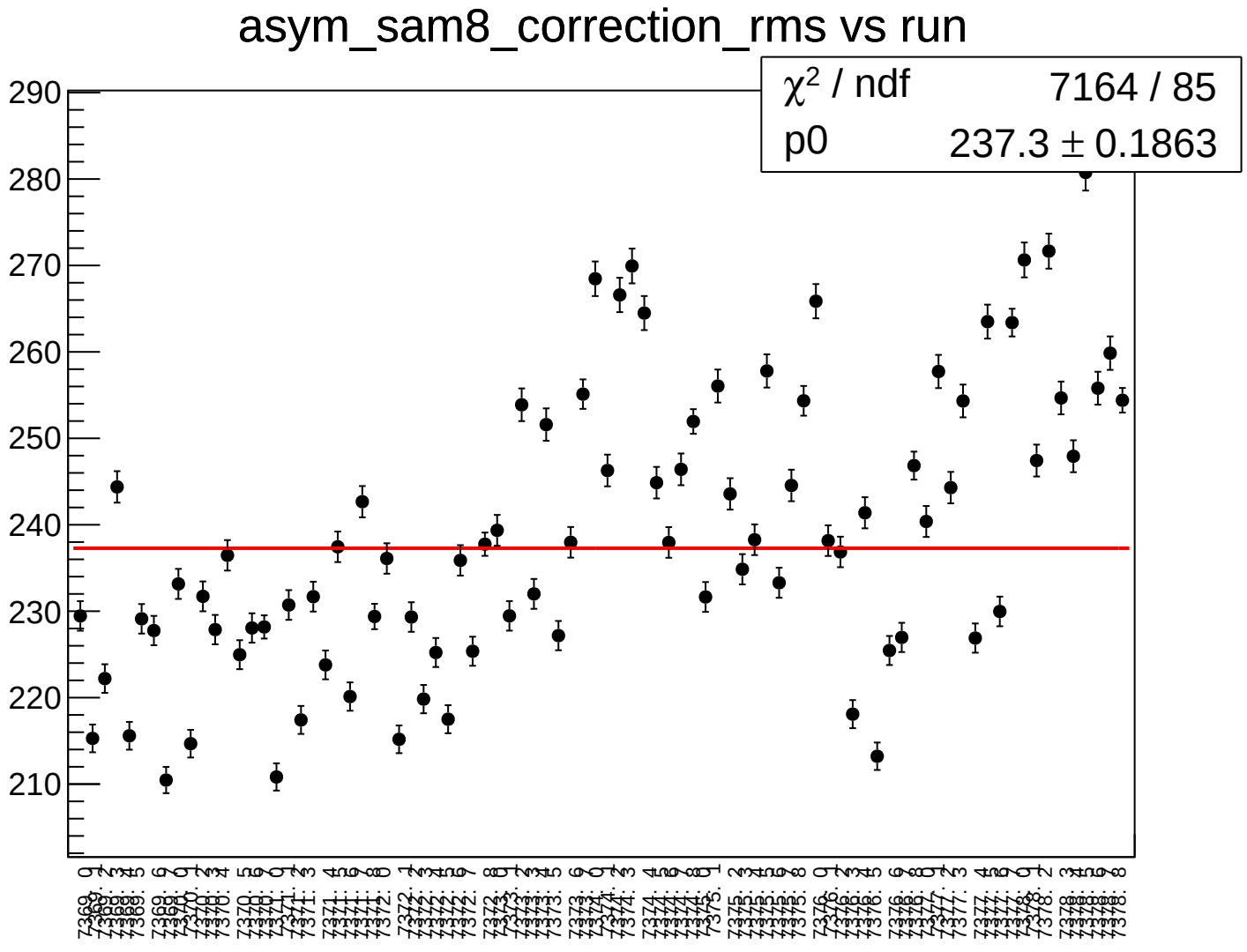

reg_asym_sam8_mean vs run
χ² / ndf 64.66 / 85
p0 −105.4 ± 87.07
pull
Entries 86
Mean −1613
Std Dev 1649

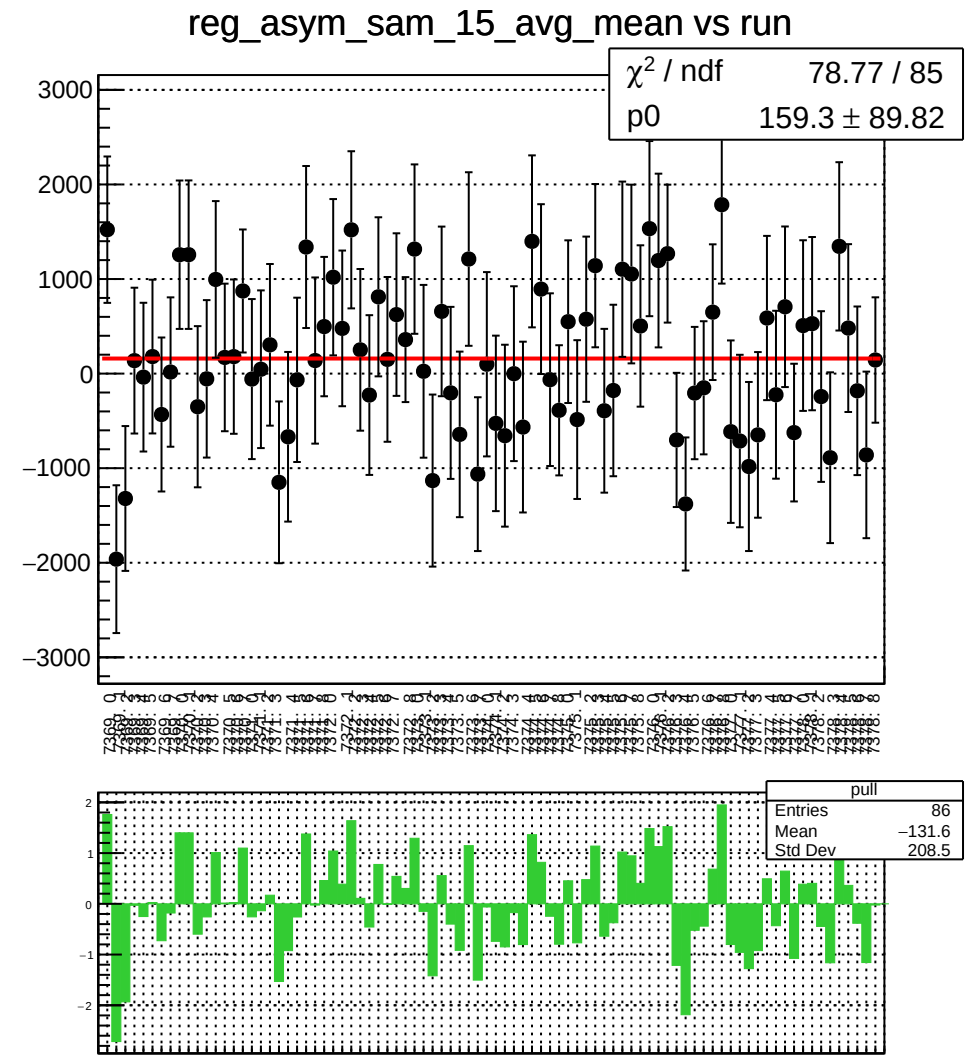

pull1D
Entries 86
Mean 0.002283
Std Dev 0.8671

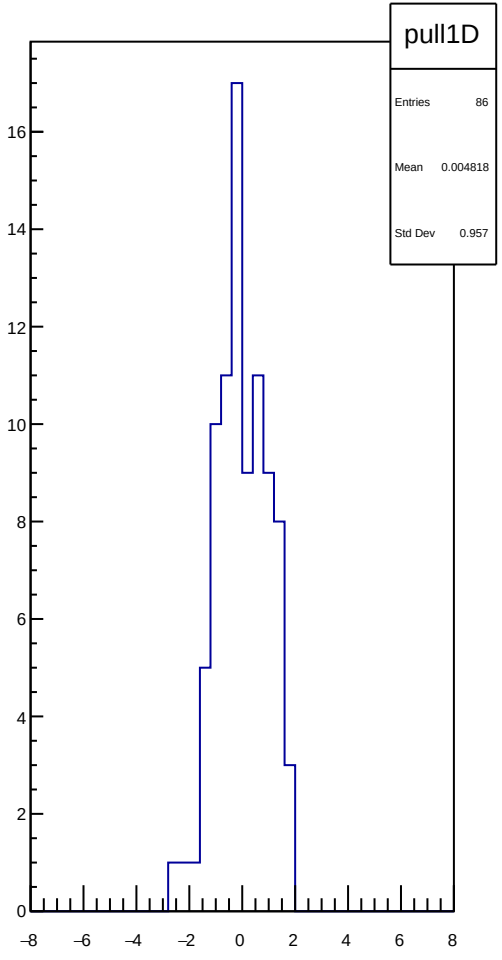

reg_asym_sam8_rms vs run
χ² / ndf 2.285e+04 / 85
p0 78.04 ± 0.06157
90
85
80
75
70
65
60
55

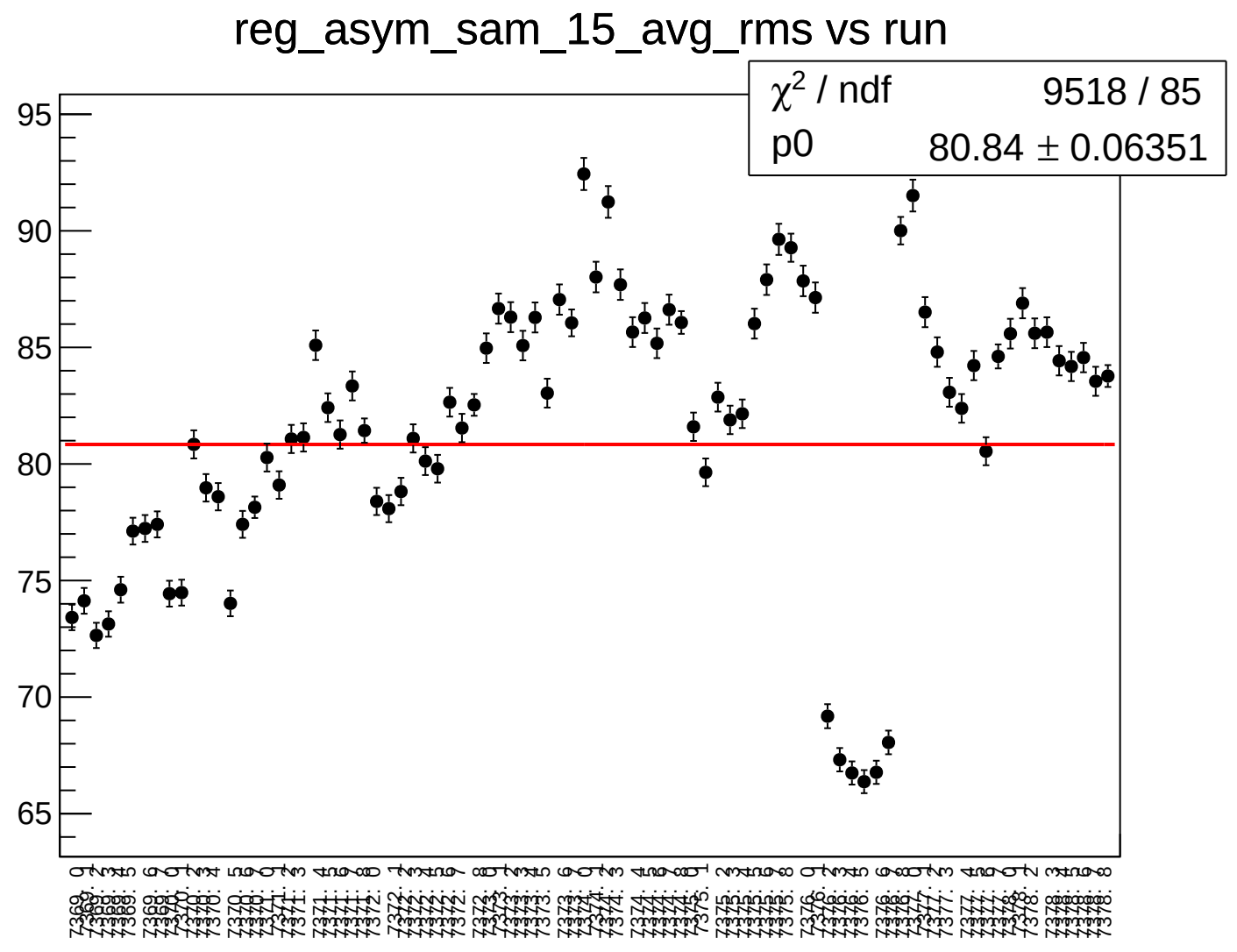

asym_sam8_correction_mean vs run
χ² / ndf 89.71 / 85
p0 216.9 ± 263.5
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 68.58
Std Dev 80.21
2
1
0
−1
−2

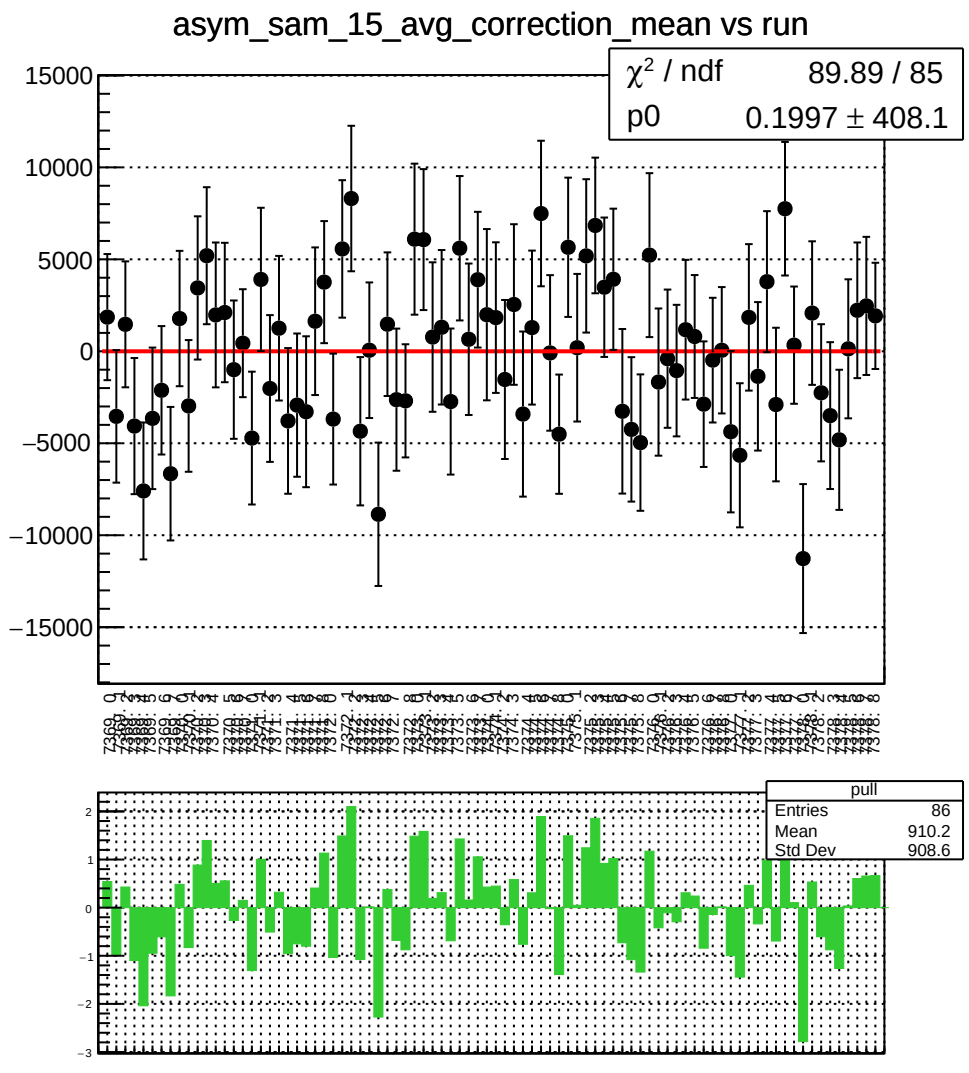

pull1D
Entries 86
Mean −0.008613
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

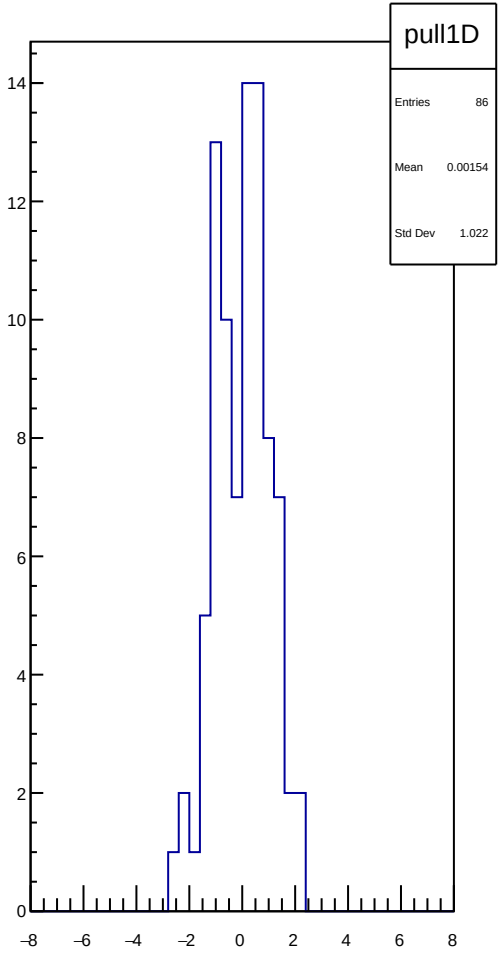

asym_sam8_correction_rms vs run
χ² / ndf 7164 / 85
p0 237.3 ± 0.1863
290
280
270
260
250
240
230
220
210

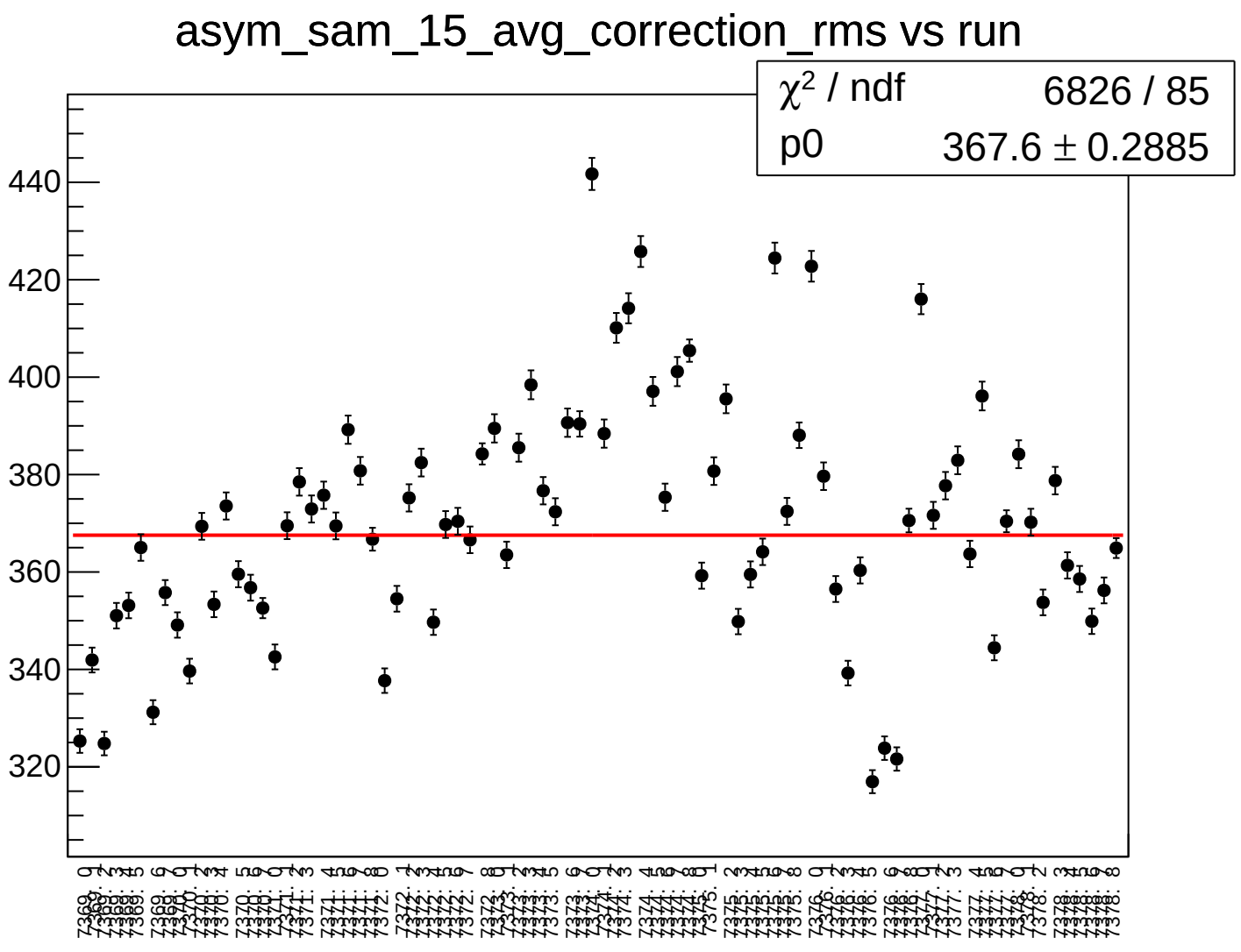

reg_asym_sam_15_avg_mean vs run
χ² / ndf 78.77 / 85
p0 159.3 ± 89.82
pull
Entries 86
Mean −131.6
Std Dev 208.5

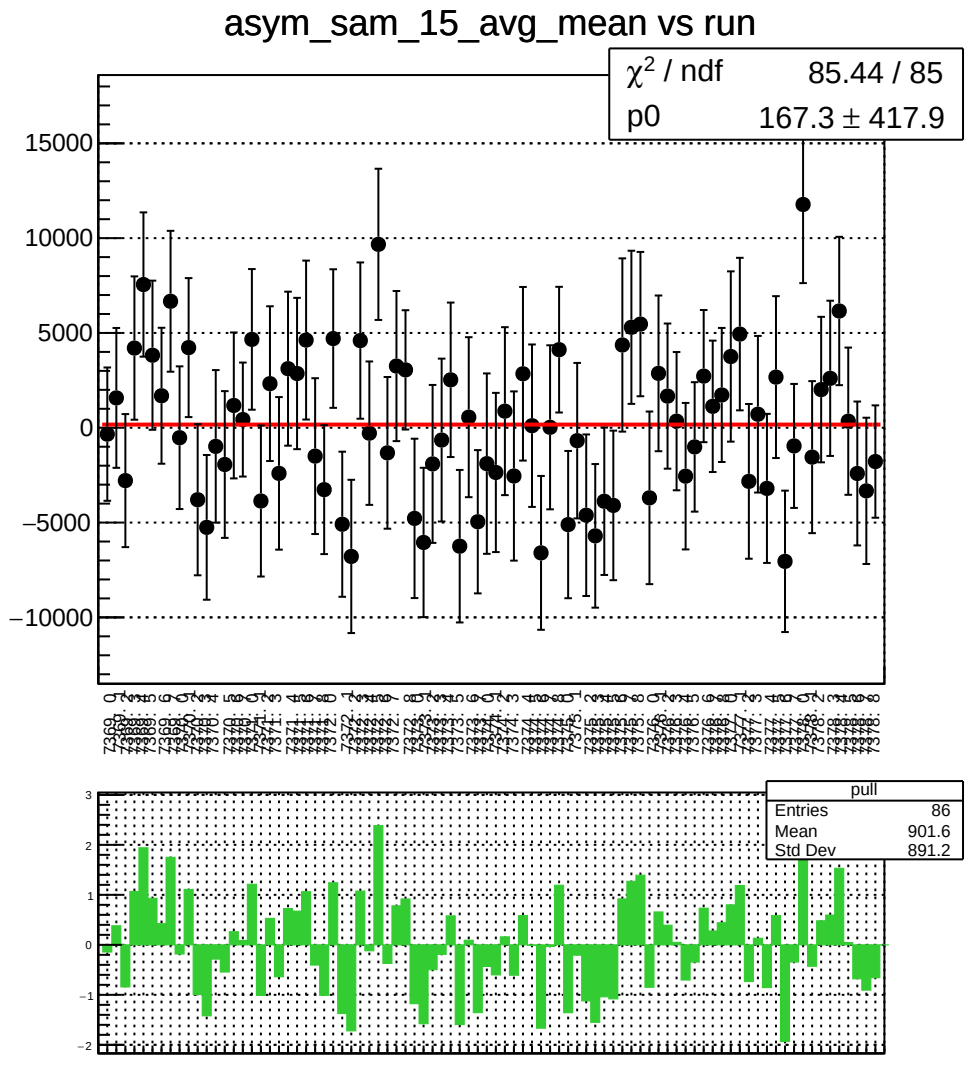

pull1D
Entries 86
Mean 0.004818
Std Dev 0.957

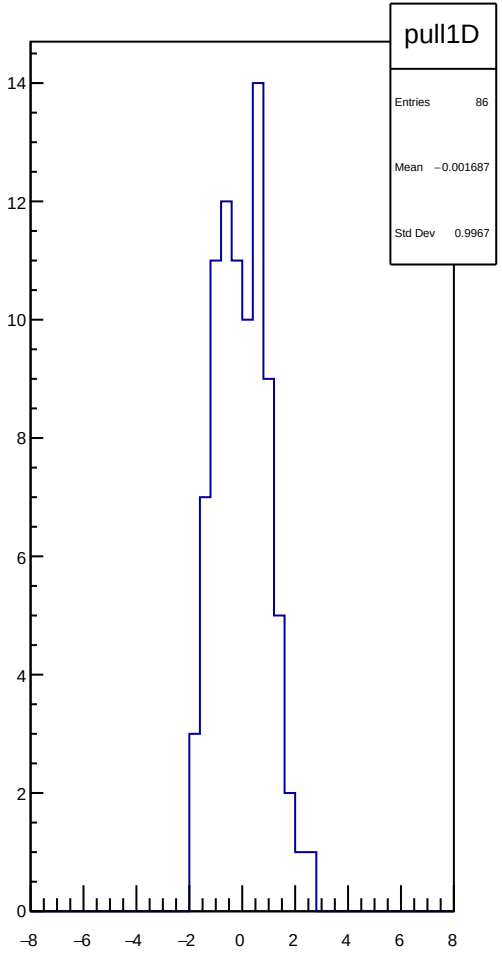

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 9518 / 85
p0 80.84 ± 0.06351
95
90
85
80
75
70
65

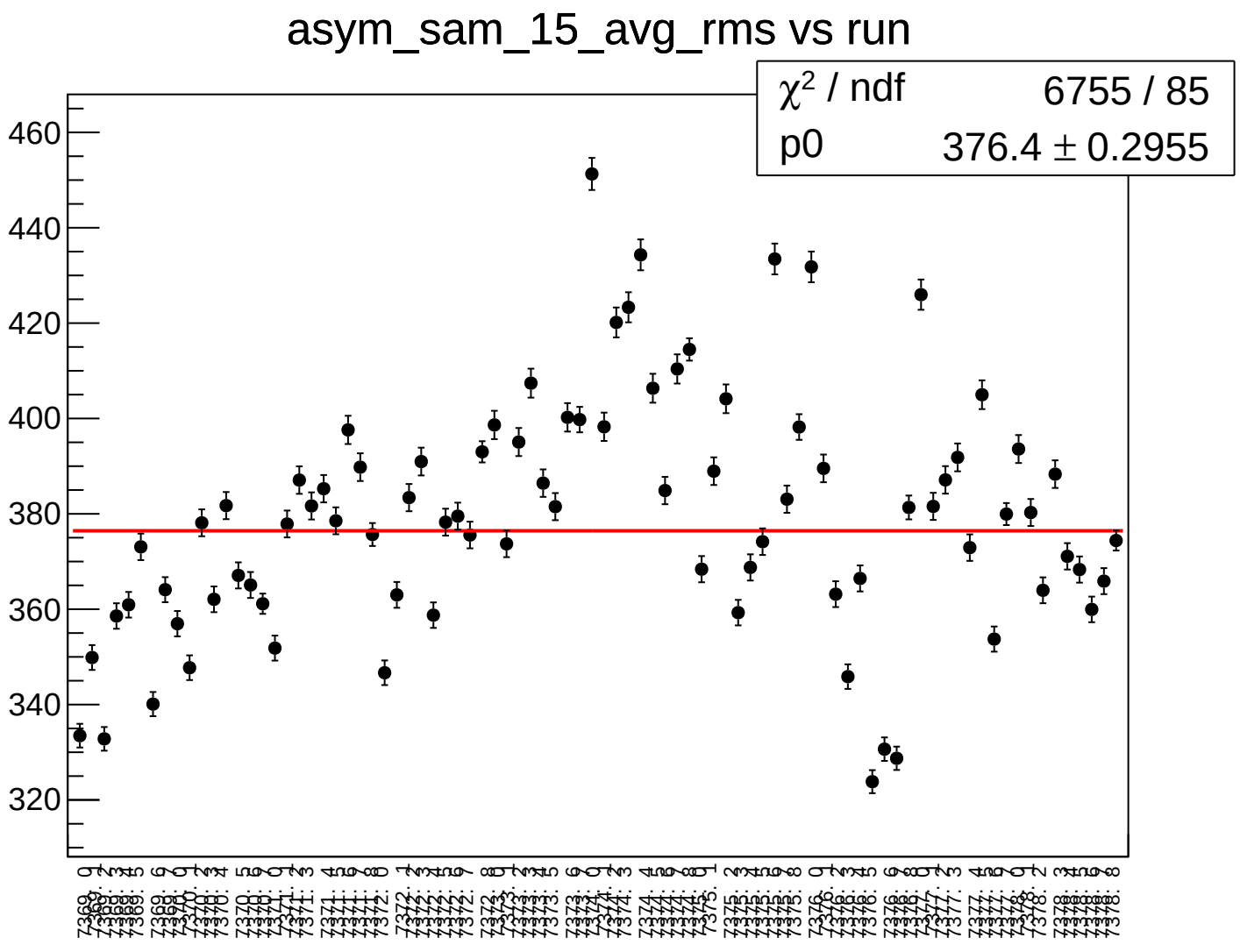

asym_sam_15_avg_correction_mean vs run
χ² / ndf 89.89 / 85
p0 0.1997 ± 408.1
pull
Entries 86
Mean 910.2
Std Dev 908.6

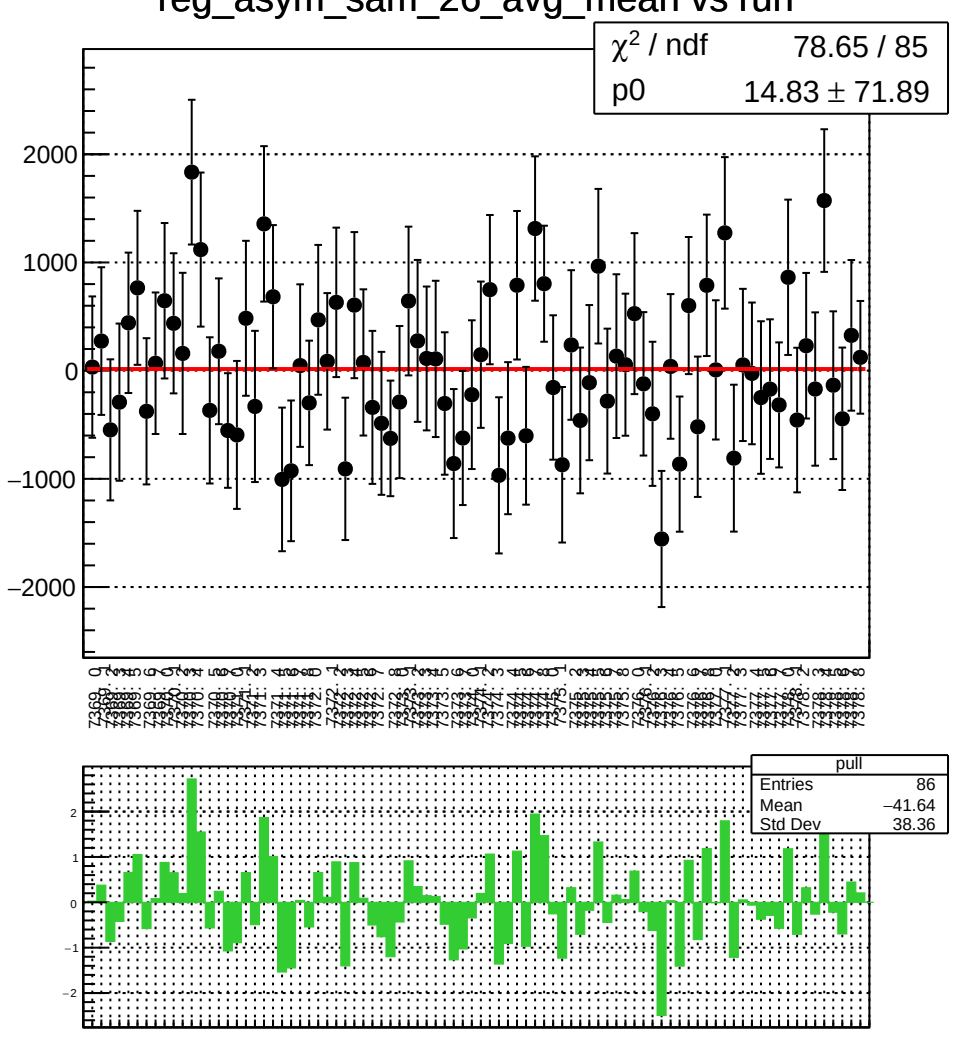

pull1D
Entries 86
Mean 0.00154
Std Dev 1.022

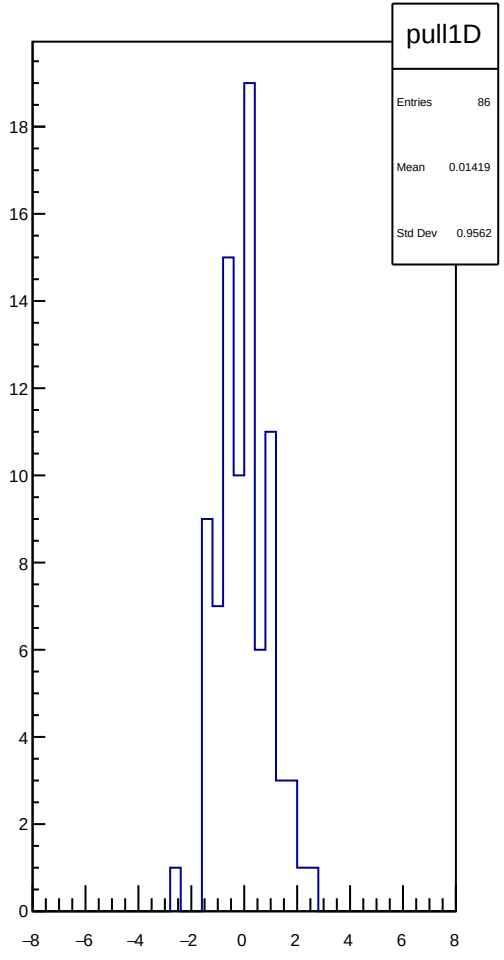

asym_sam_15_avg_correction_rms vs run
χ² / ndf 6826 / 85
p0 367.6 ± 0.2885
440
420
400
380
360
340
320

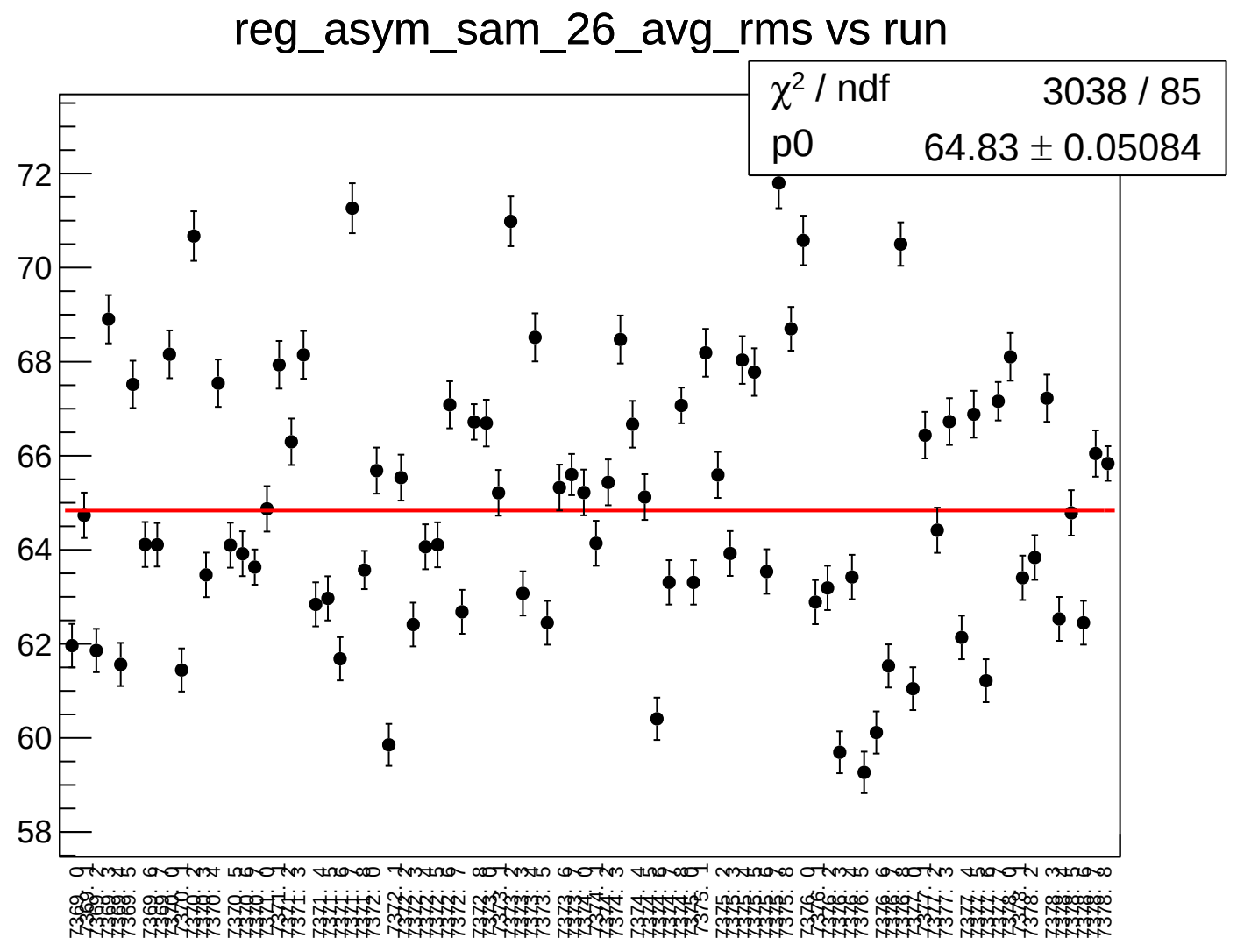

asym_sam_15_avg_mean vs run
χ² / ndf 85.44 / 85
p0 167.3 ± 417.9
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 901.6
Std Dev 891.2
3
2
1
0
−1
−2

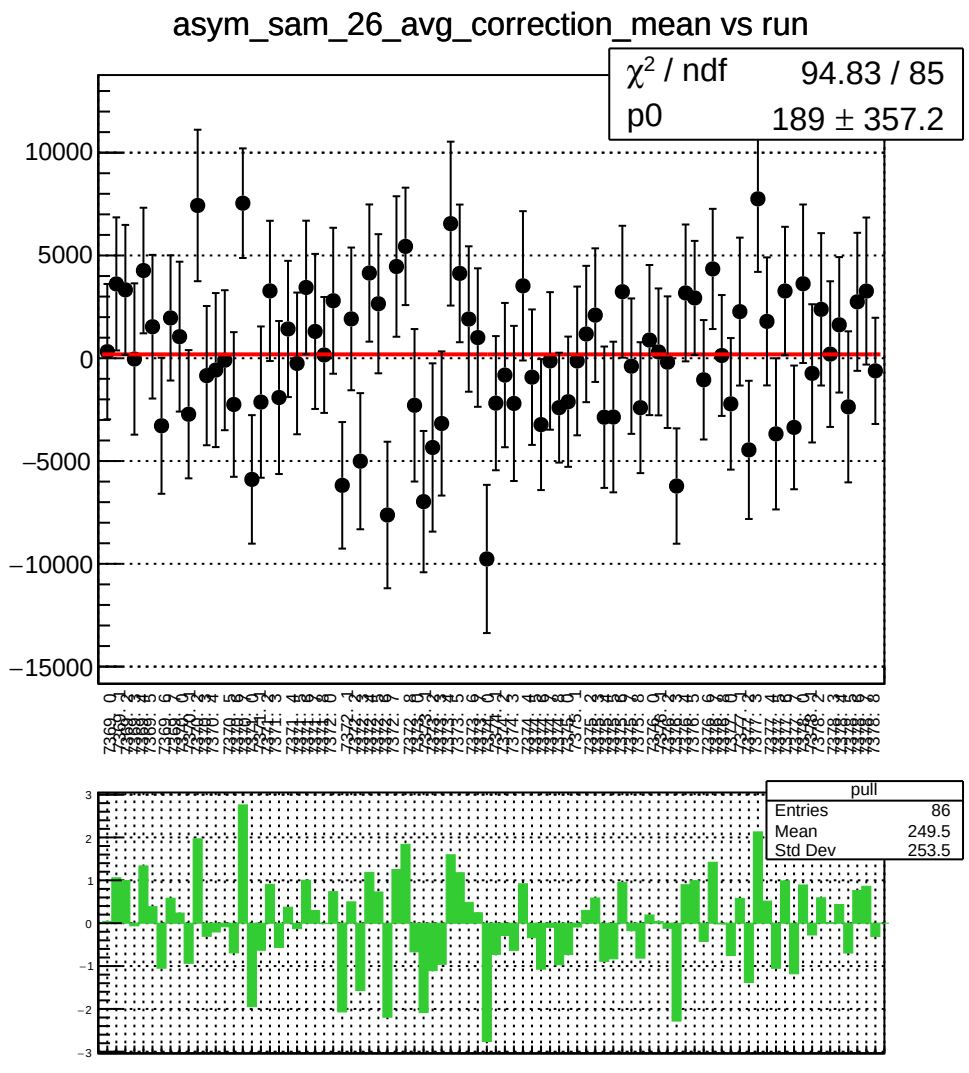

pull1D
Entries 86
Mean −0.001687
Std Dev 0.9967
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

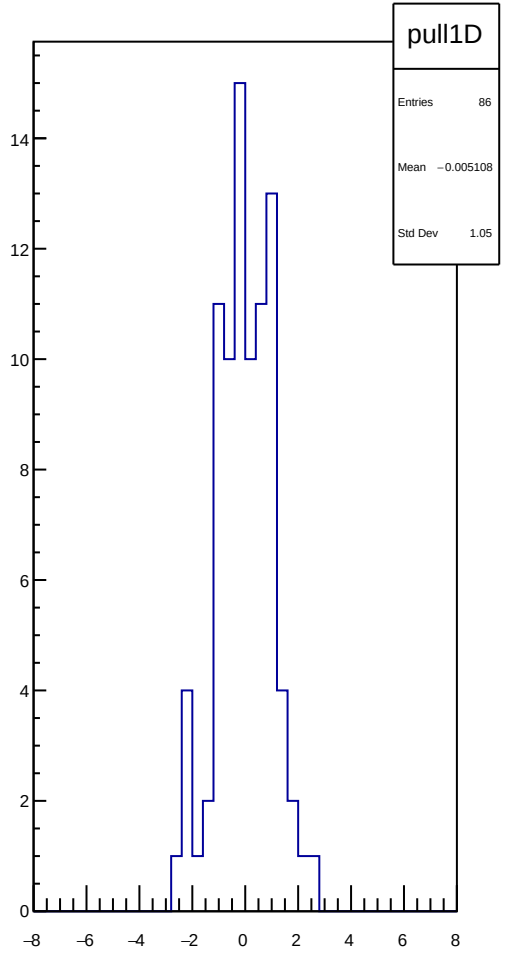

asym_sam_15_avg_rms vs run
χ² / ndf 6755 / 85
p0 376.4 ± 0.2955
460
440
420
400
380
360
340
320

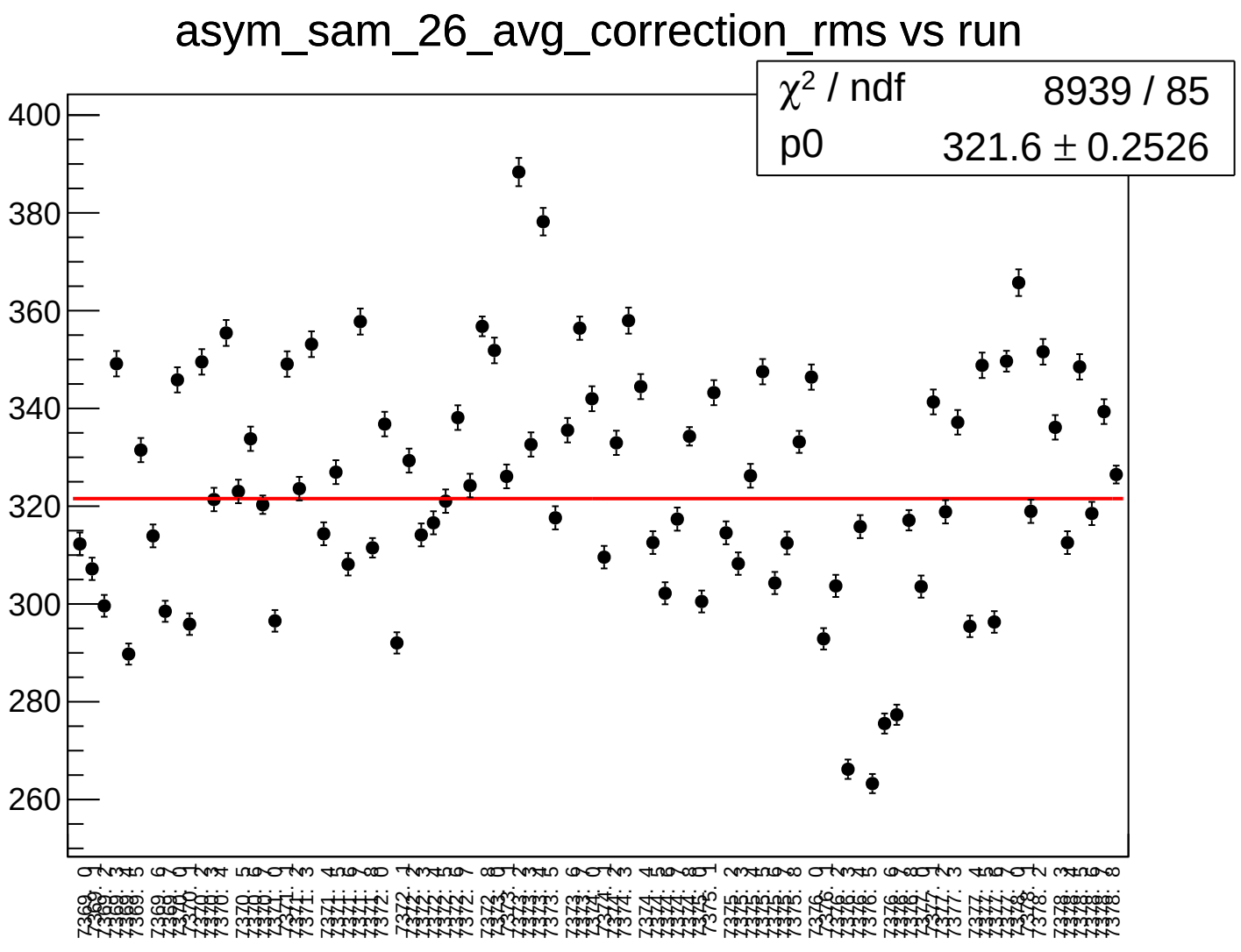

reg_asym_sam_26_avg_mean vs run
χ² / ndf 78.65 / 85
p0 14.83 ± 71.89
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −41.64
Std Dev 38.36
2
1
0
−1
−2

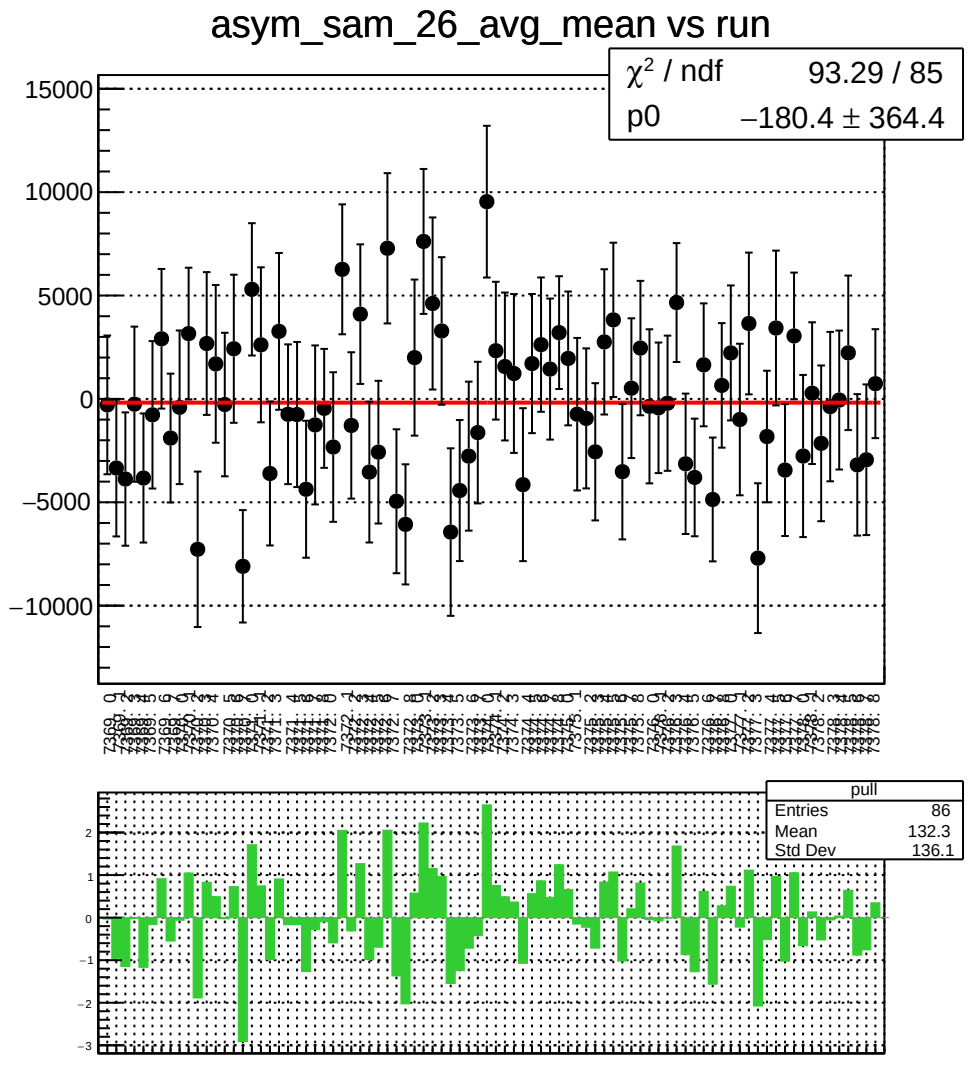

pull1D
Entries 86
Mean 0.01419
Std Dev 0.9562
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

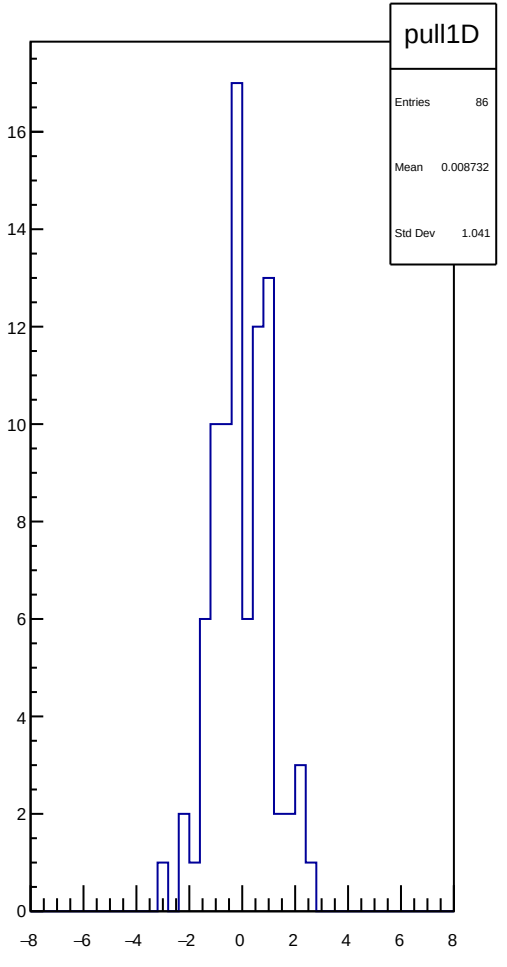

reg_asym_sam_26_avg_rms vs run
χ² / ndf 3038 / 85
p0 64.83 ± 0.05084
72
70
68
66
64
62
60
58

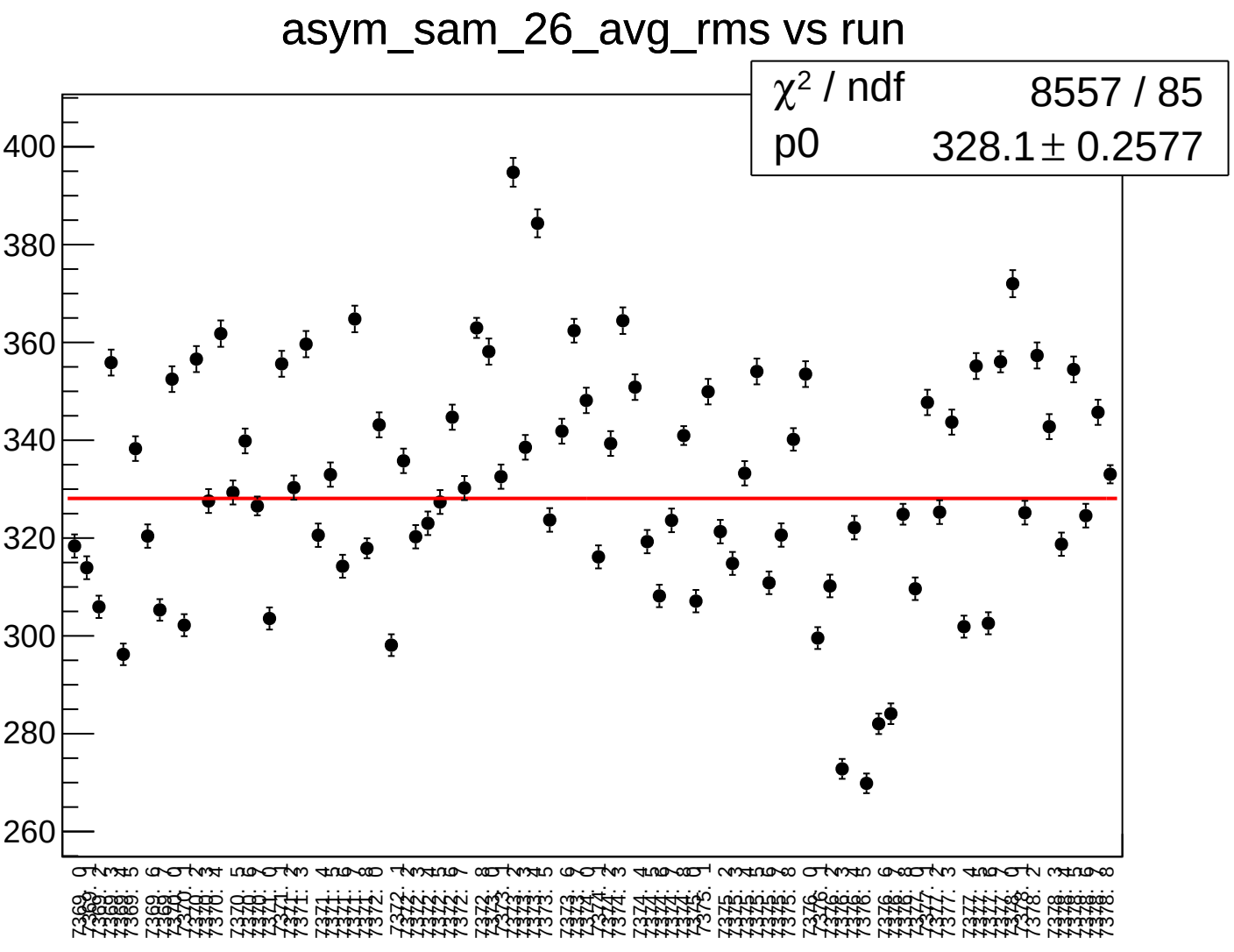

asym_sam_26_avg_correction_mean vs run
χ² / ndf 94.83 / 85
p0 189 ± 357.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 249.5
Std Dev 253.5
3
2
1
0
−1
−2
−3

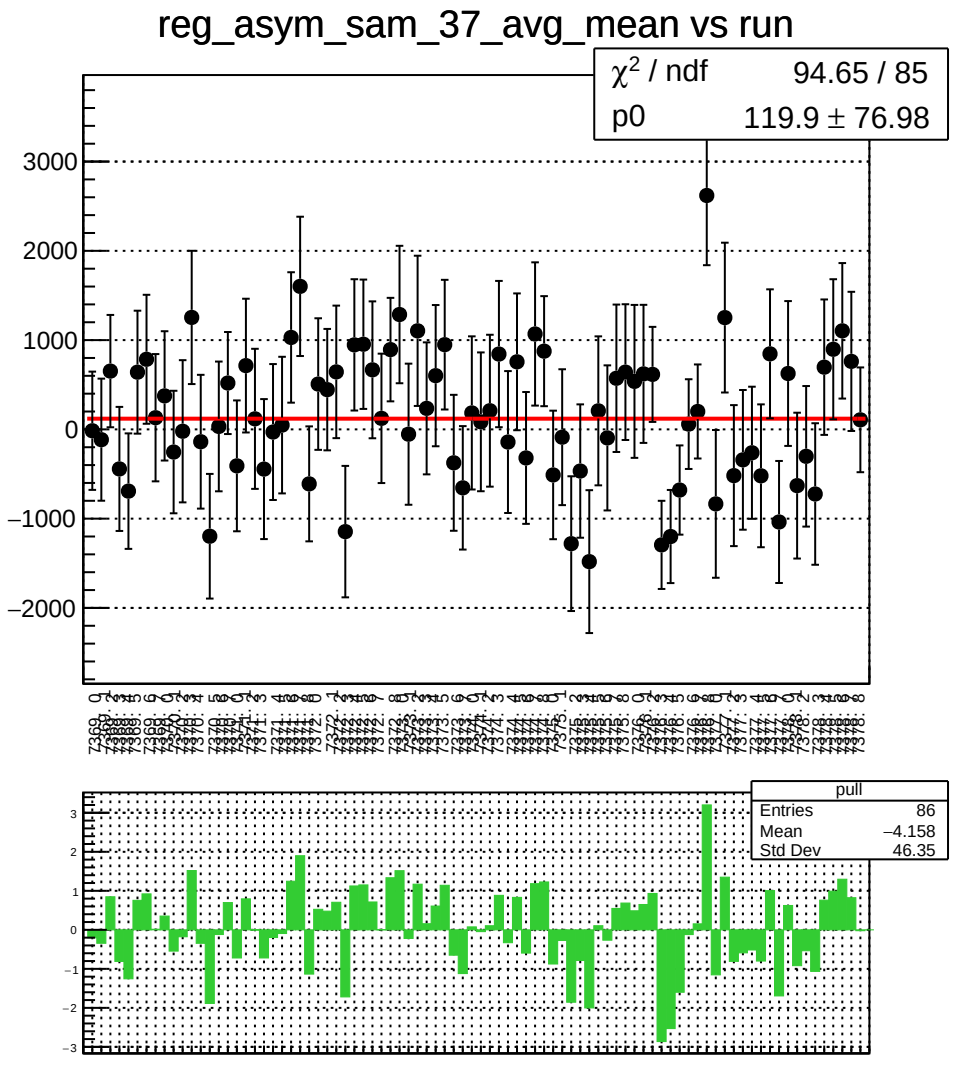

pull1D
Entries 86
Mean −0.005108
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

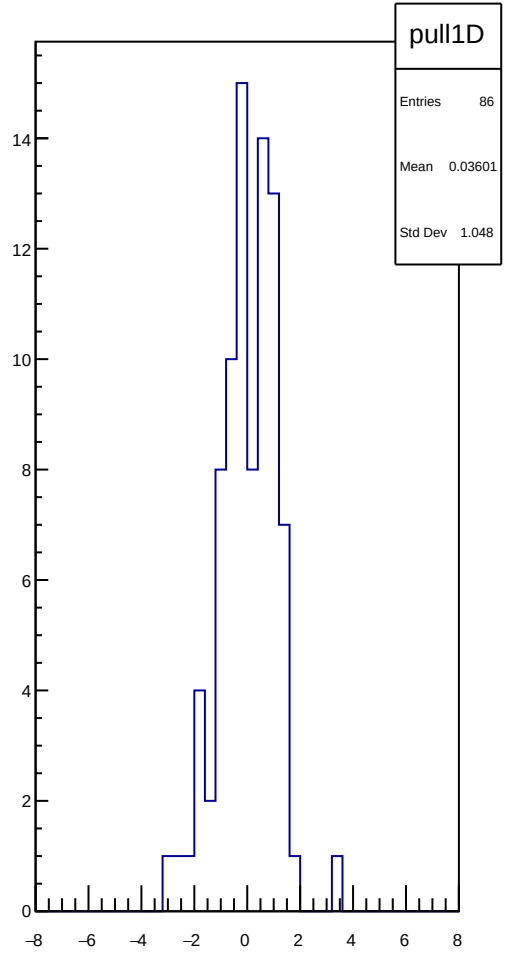

asym_sam_26_avg_correction_rms vs run
χ² / ndf 8939 / 85
p0 321.6 ± 0.2526
400
380
360
340
320
300
280
260

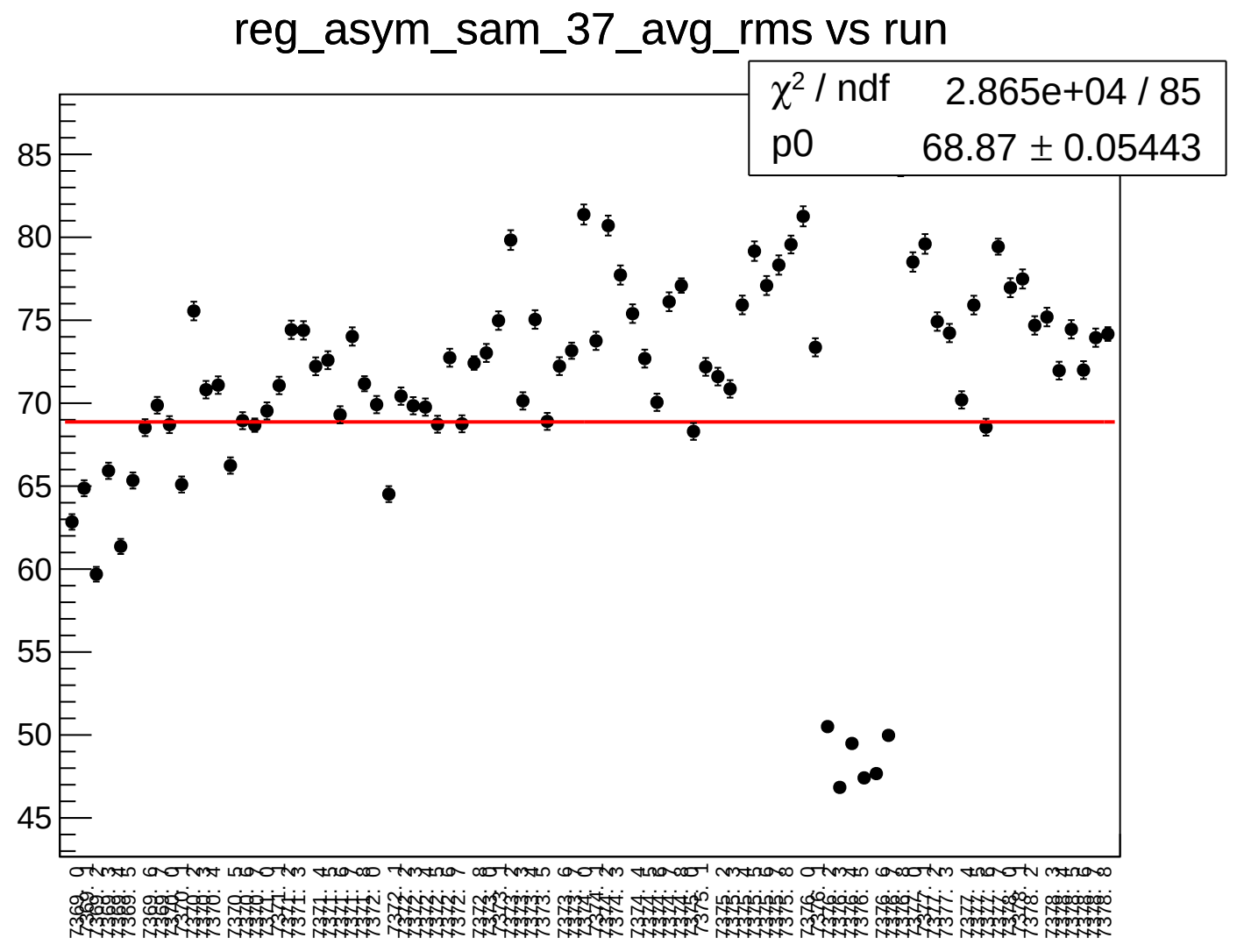

asym_sam_26_avg_mean vs run
χ² / ndf 93.29 / 85
p0 −180.4 ± 364.4
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 132.3
Std Dev 136.1
2
1
0
−1
−2
−3

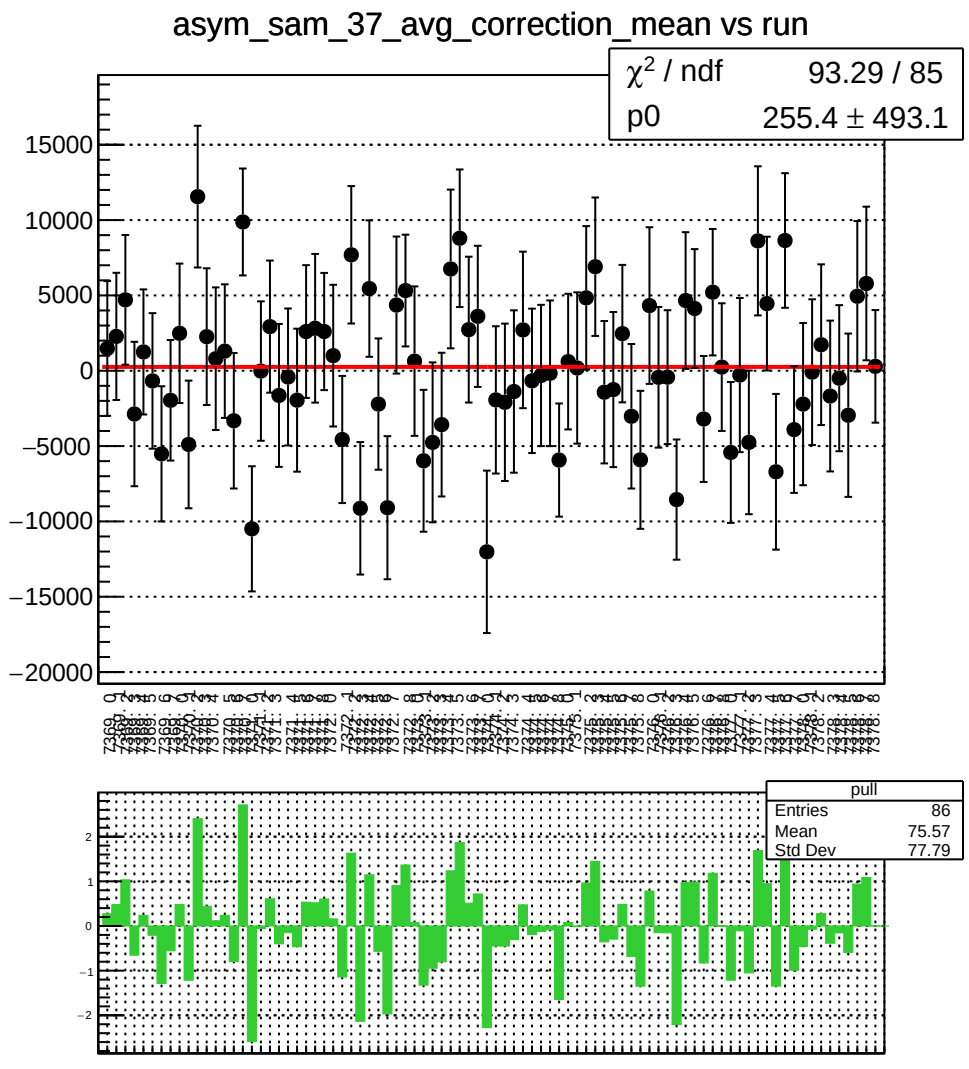

pull1D
Entries 86
Mean 0.008732
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

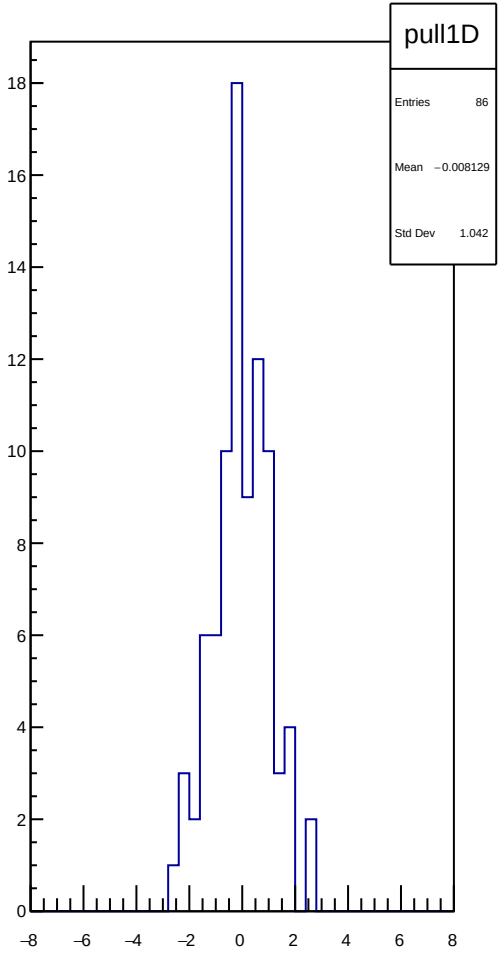

asym_sam_26_avg_rms vs run
χ² / ndf 8557 / 85
p0 328.1 ± 0.2577
400
380
360
340
320
300
280
260

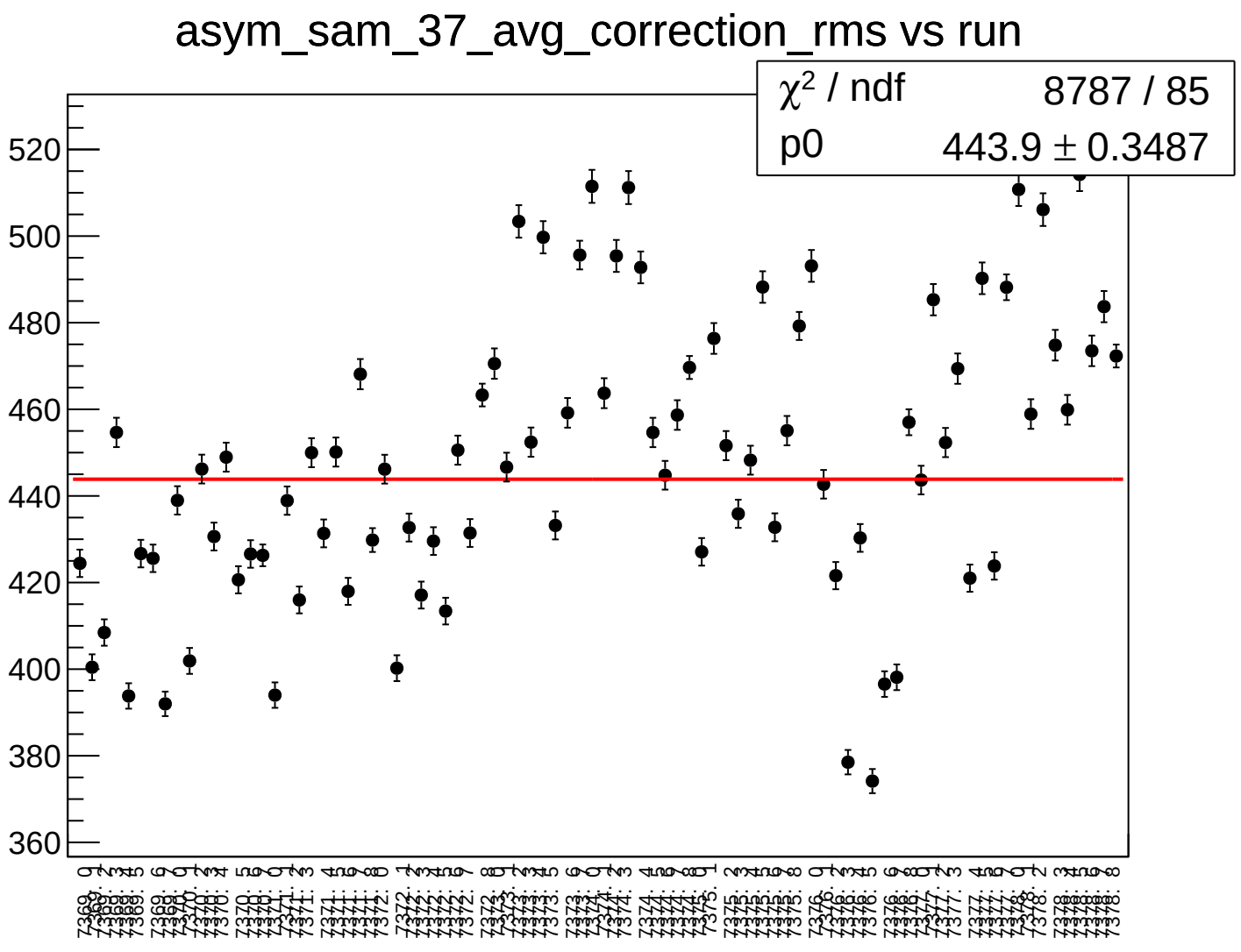

reg_asym_sam_37_avg_mean vs run
χ² / ndf 94.65 / 85
p0 119.9 ± 76.98
3000
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −4.158
Std Dev 46.35
3
2
1
0
−1
−2
−3

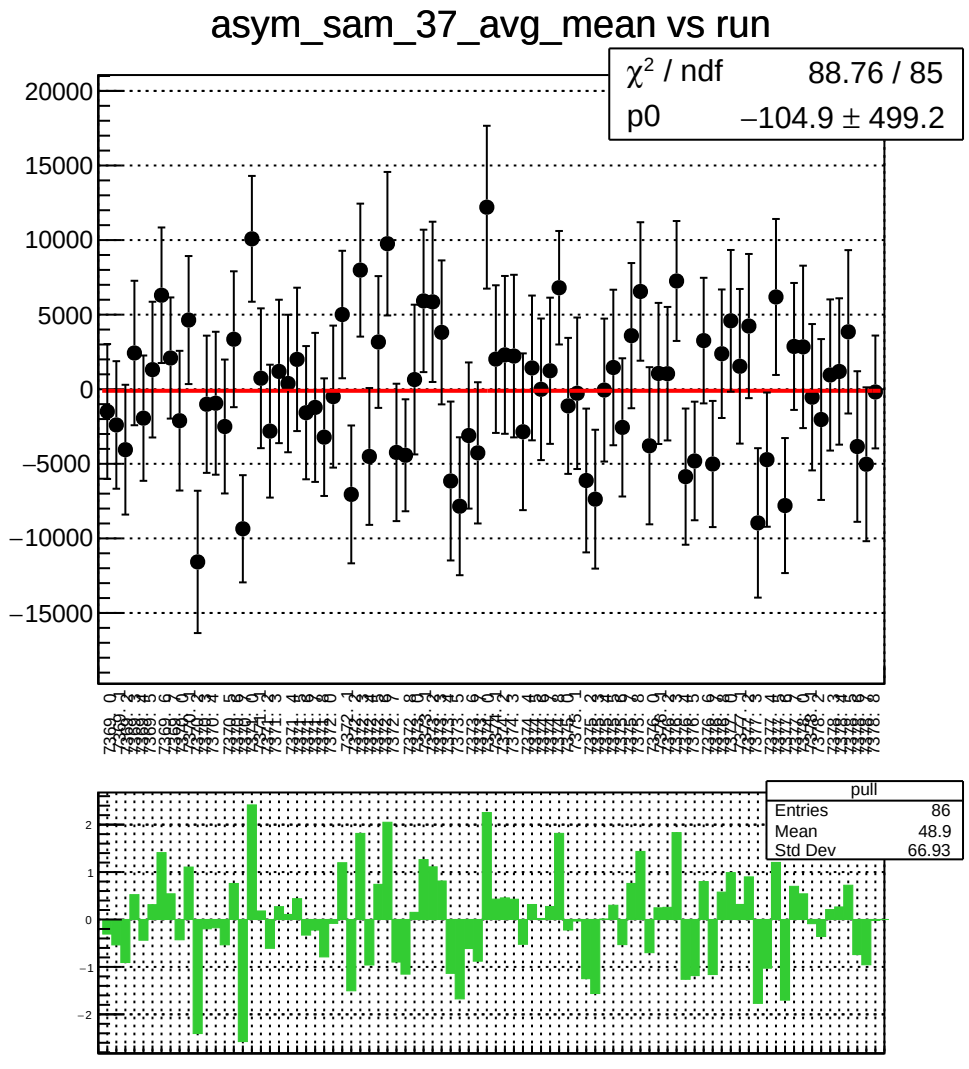

pull1D
Entries 86
Mean 0.03601
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

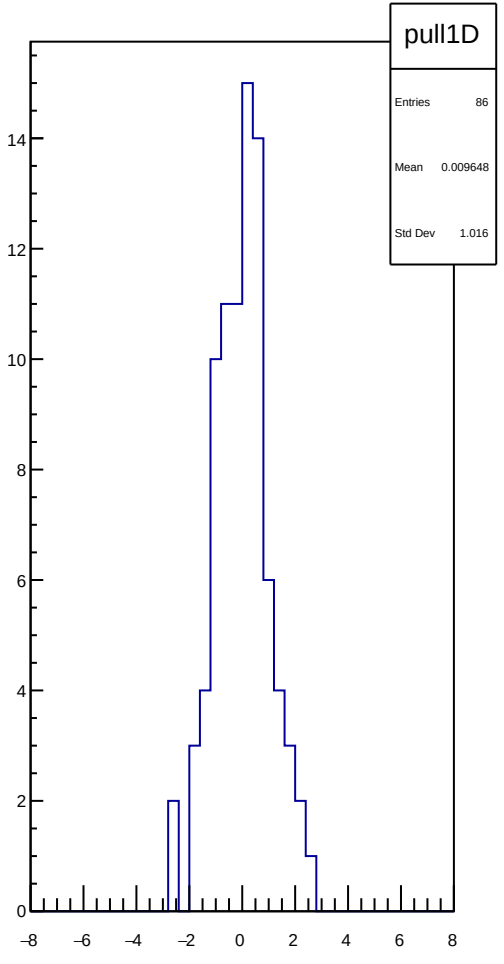

reg_asym_sam_37_avg_rms vs run
χ² / ndf 2.865e+04 / 85
p0 68.87 ± 0.05443
85
80
75
70
65
60
55
50
45

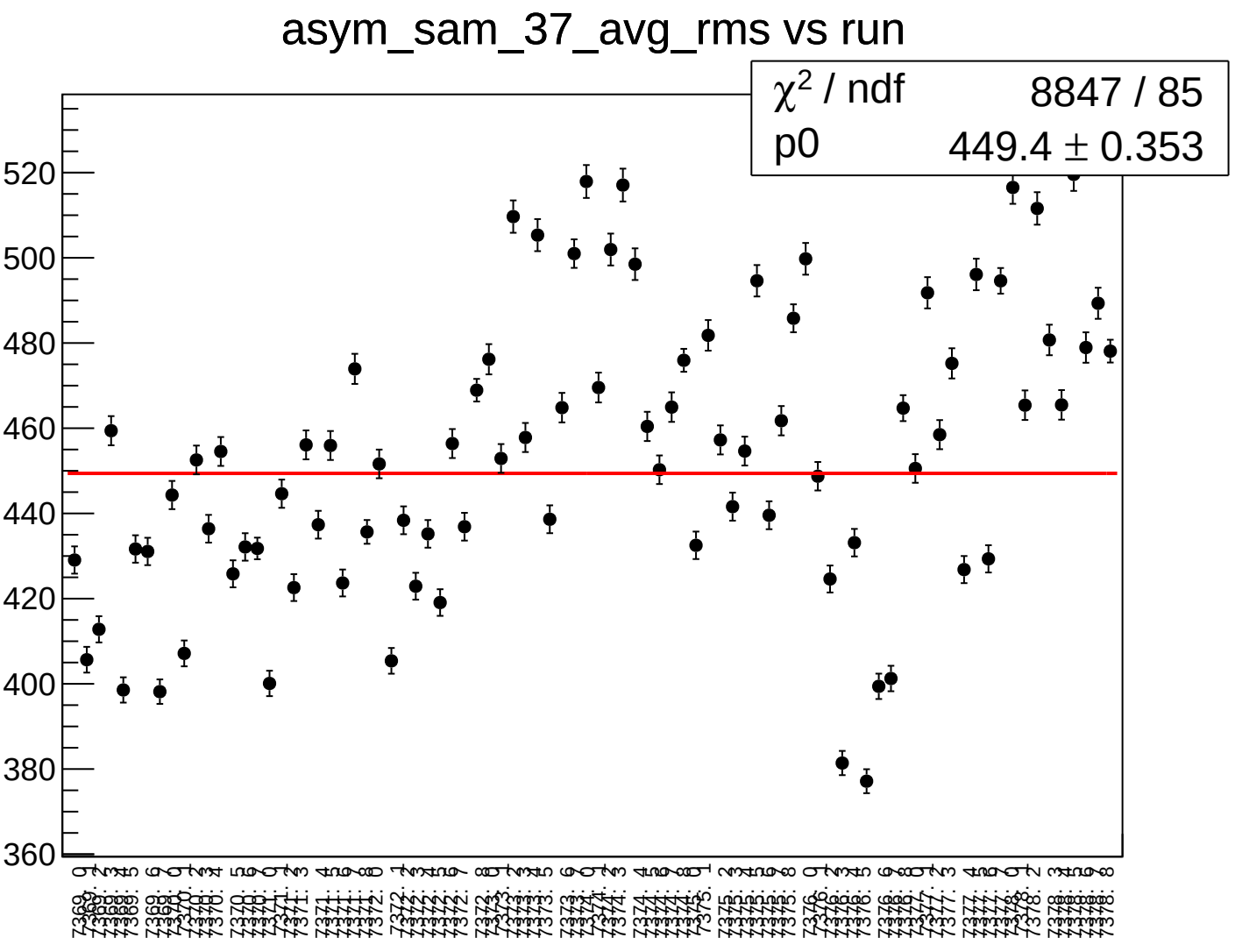

asym_sam_37_avg_correction_mean vs run
χ² / ndf 93.29 / 85
p0 255.4 ± 493.1
pull
Entries 86
Mean 75.57
Std Dev 77.79

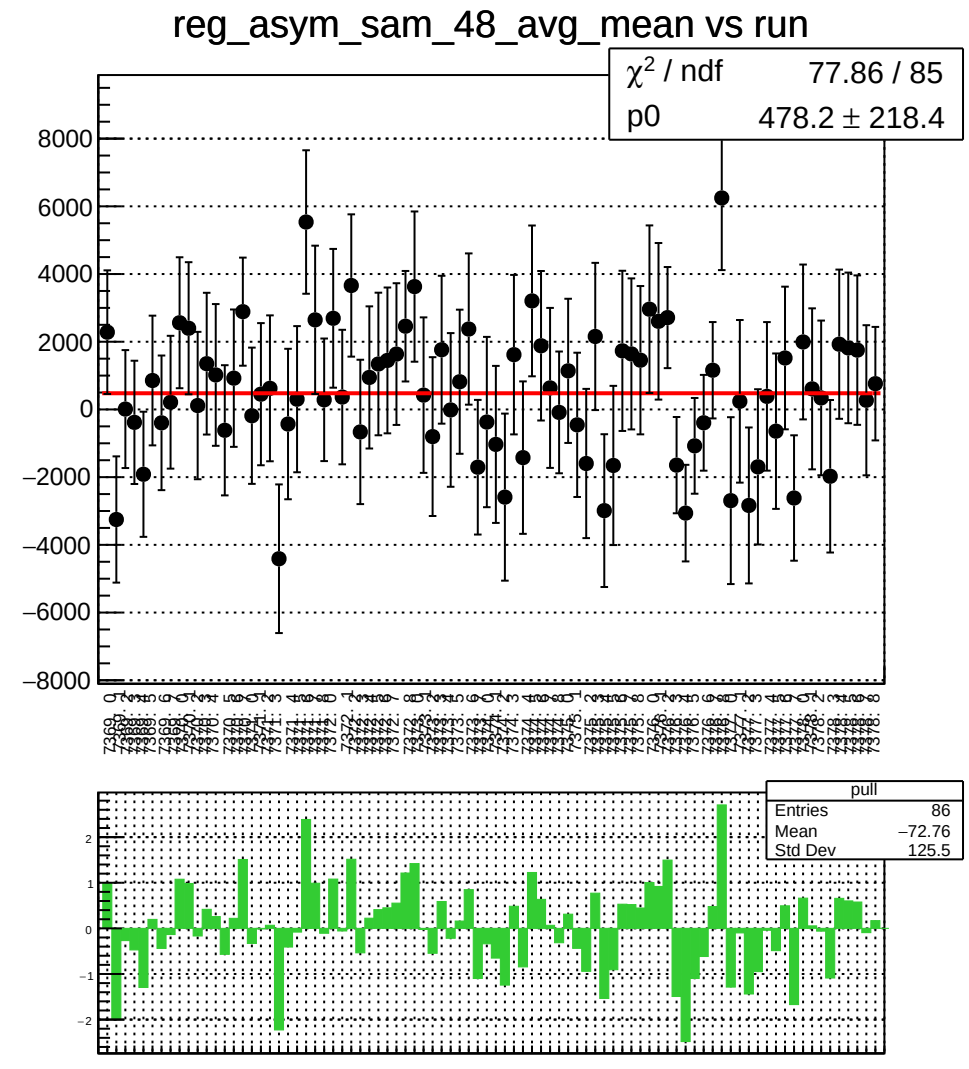

pull1D
Entries 86
Mean −0.008129
Std Dev 1.042

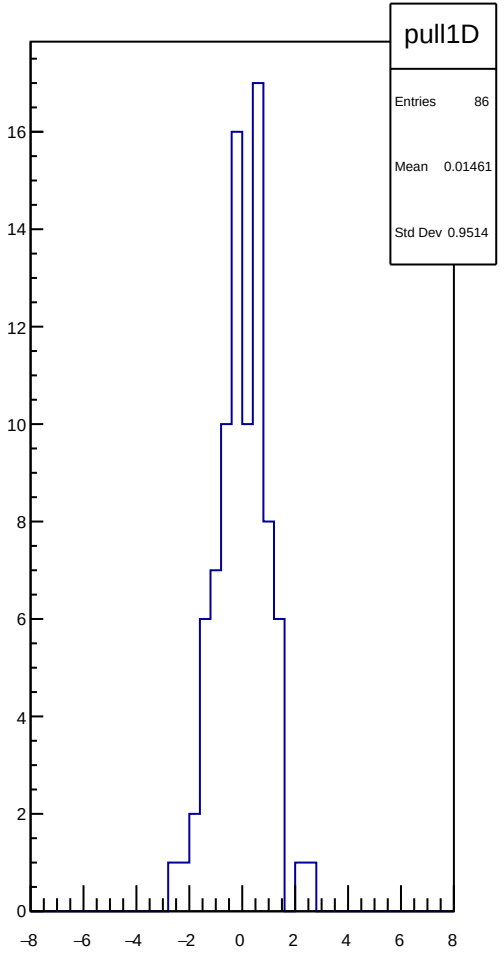

asym_sam_37_avg_correction_rms vs run
χ² / ndf 8787 / 85
p0 443.9 ± 0.3487
520
500
480
460
440
420
400
380
360

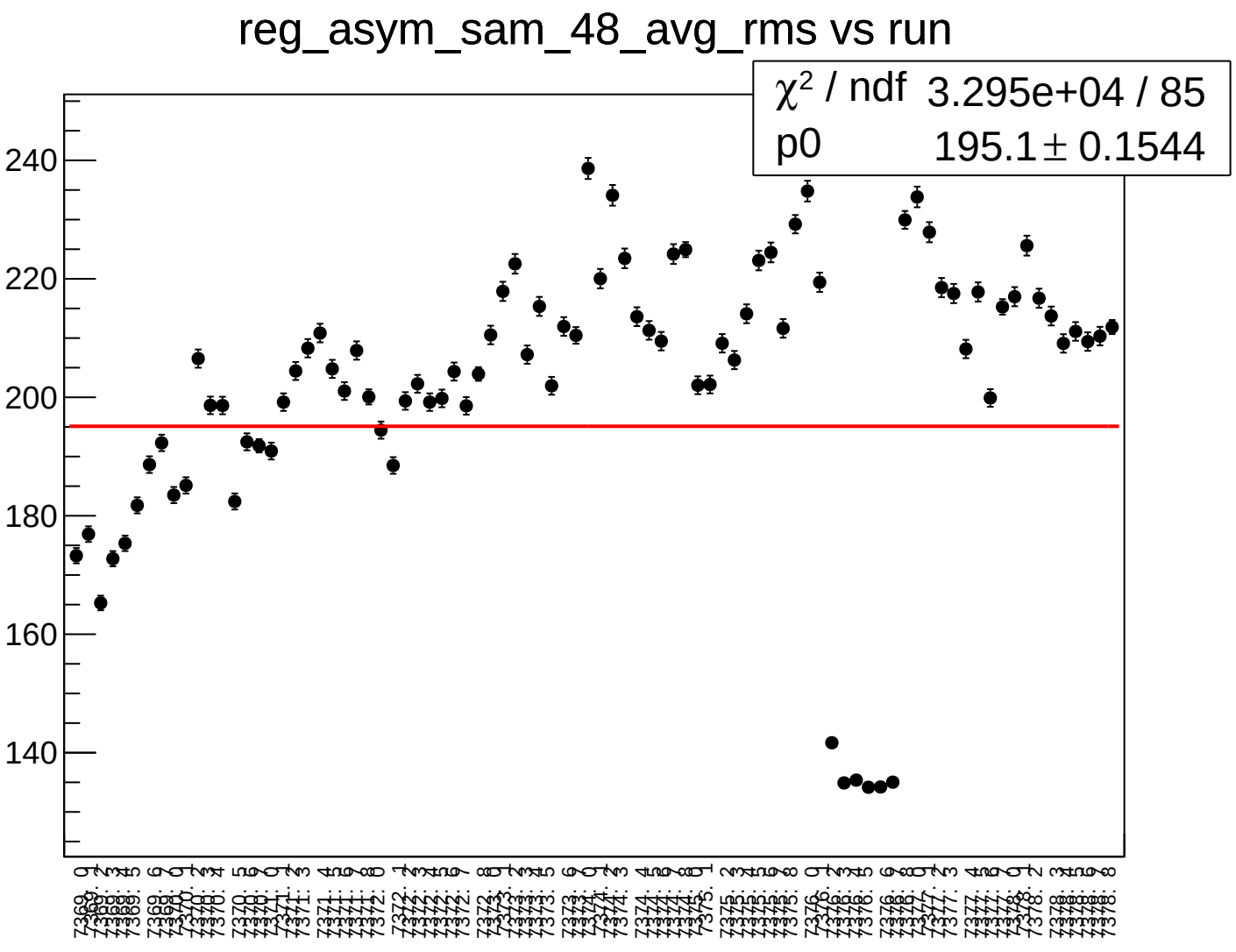

asym_sam_37_avg_mean vs run
χ² / ndf 88.76 / 85
p0 −104.9 ± 499.2
pull
Entries 86
Mean 48.9
Std Dev 66.93

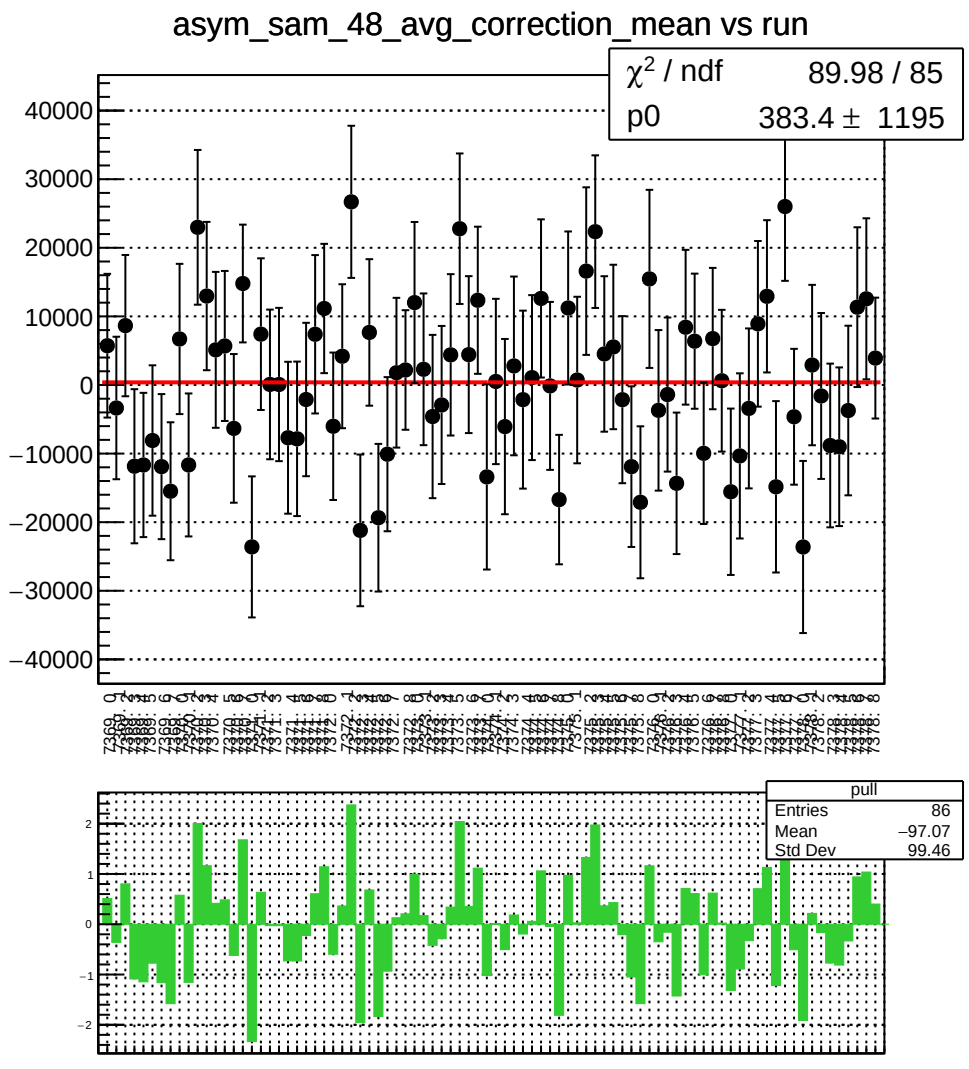

pull1D
Entries 86
Mean 0.009648
Std Dev 1.016

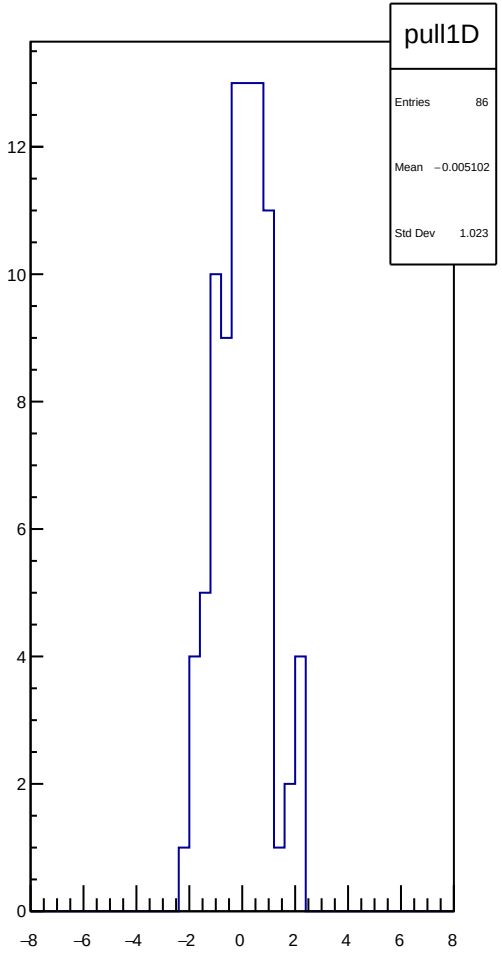

asym_sam_37_avg_rms vs run
χ² / ndf 8847 / 85
p0 449.4 ± 0.353
520
500
480
460
440
420
400
380
360

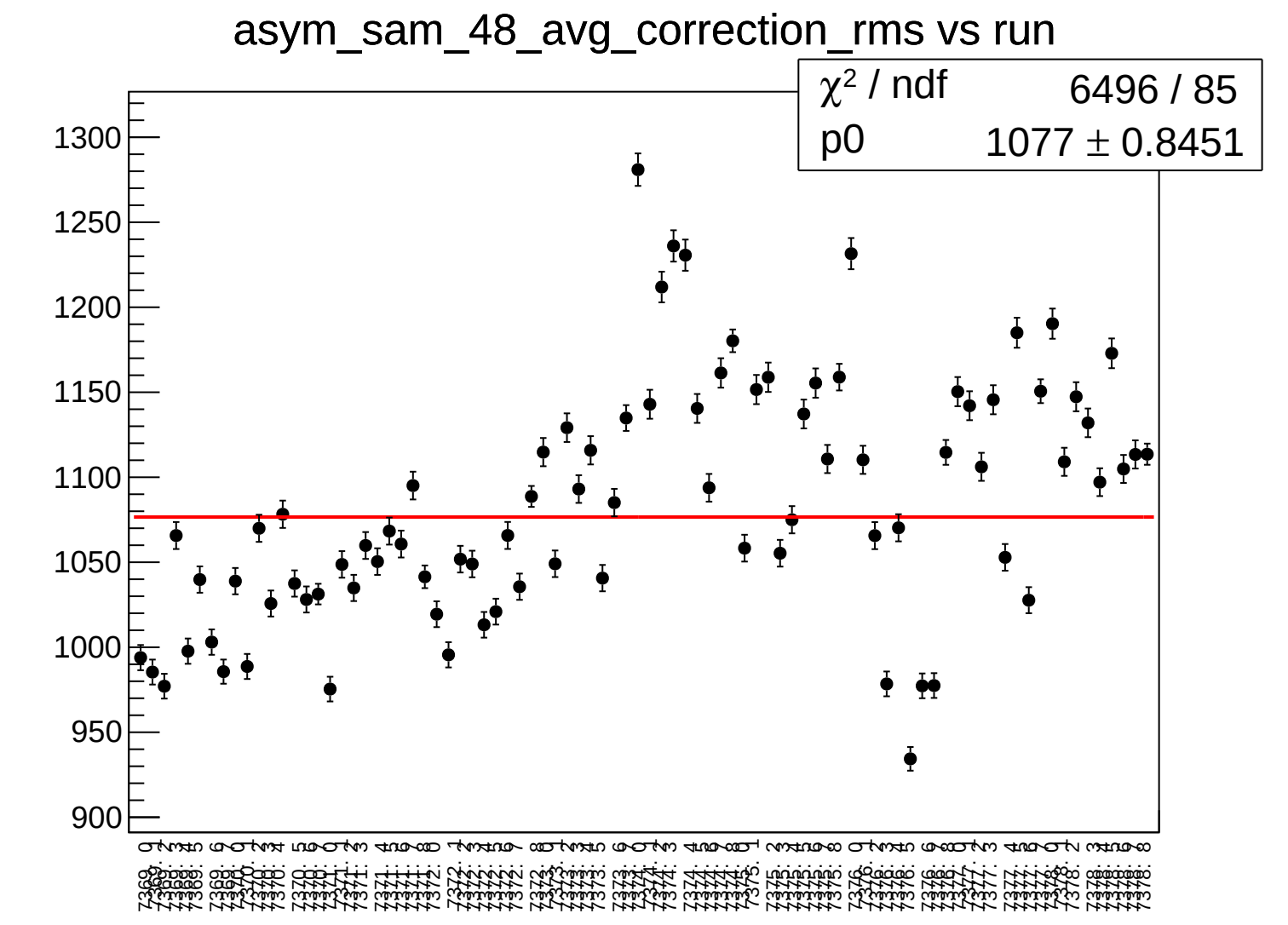

reg_asym_sam_48_avg_mean vs run
χ² / ndf 77.86 / 85
p0 478.2 ± 218.4
pull
Entries 86
Mean −72.76
Std Dev 125.5

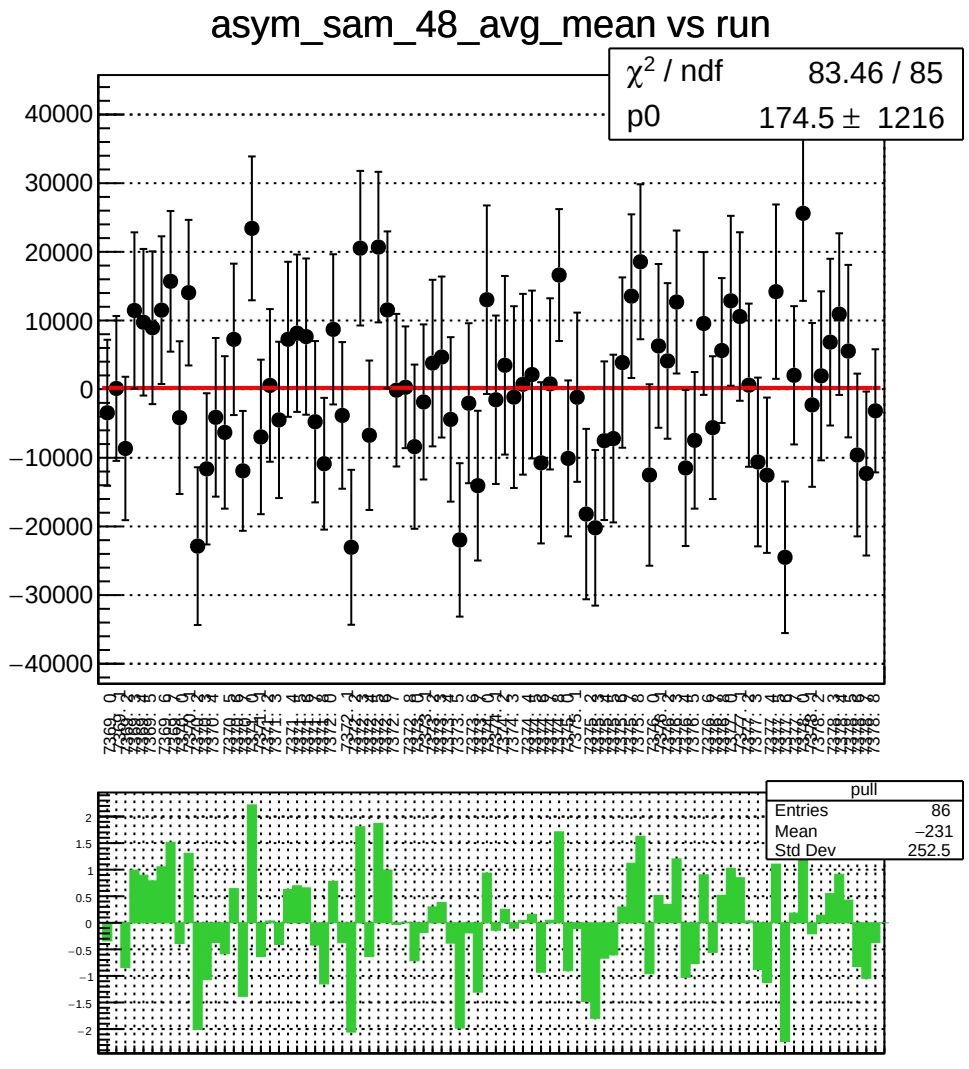

pull1D
Entries 86
Mean 0.01461
Std Dev 0.9514

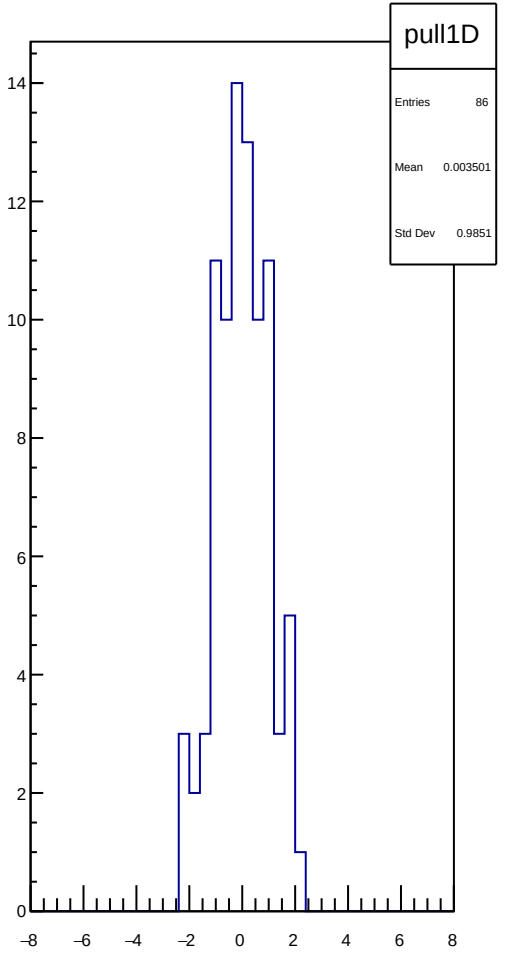

reg_asym_sam_48_avg_rms vs run
χ² / ndf 3.295e+04 / 85
p0 195.1 ± 0.1544
240
220
200
180
160
140

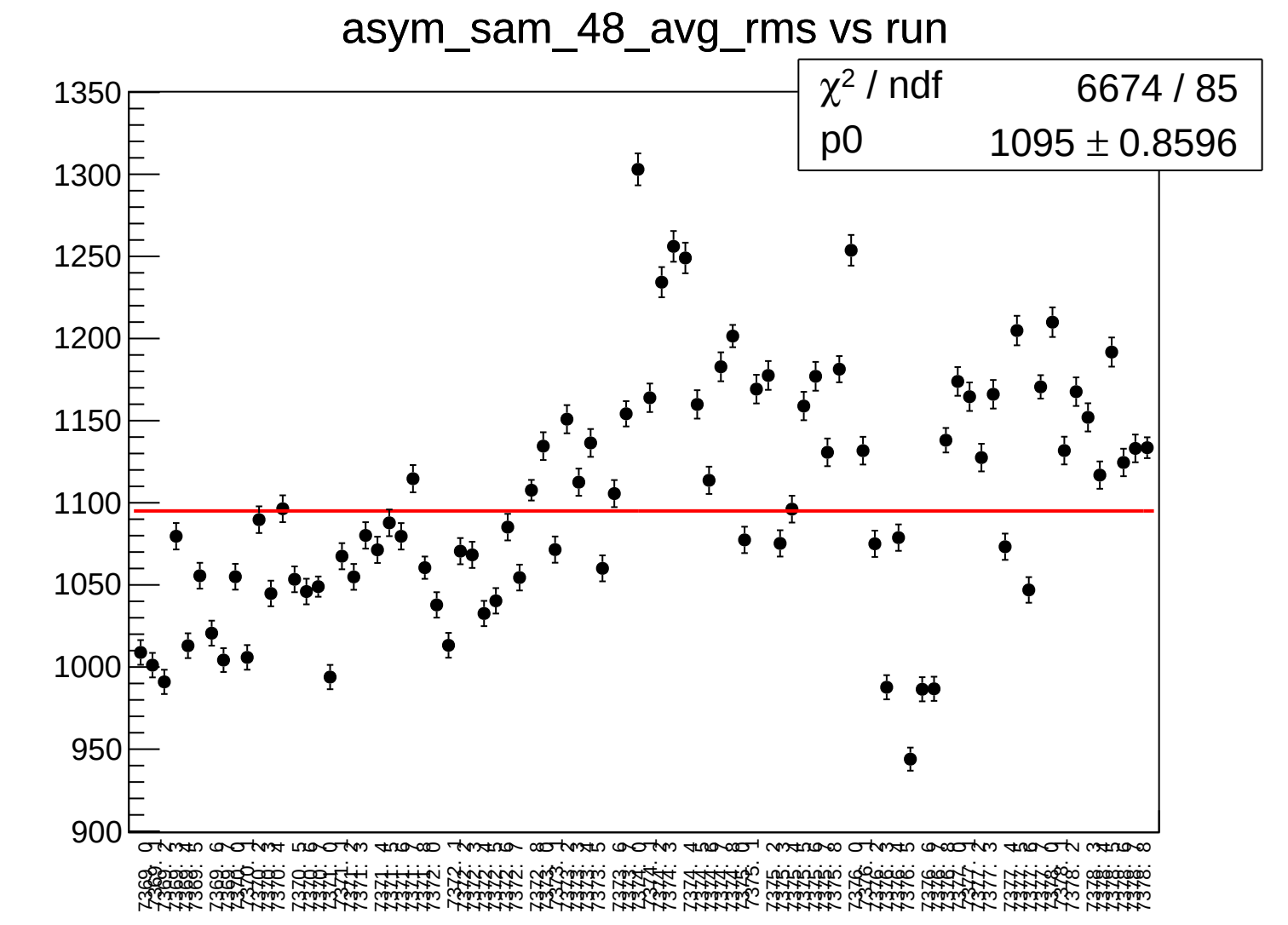

asym_sam_48_avg_correction_mean vs run
χ² / ndf 89.98 / 85
p0 383.4 ± 1195
pull
Entries 86
Mean −97.07
Std Dev 99.46

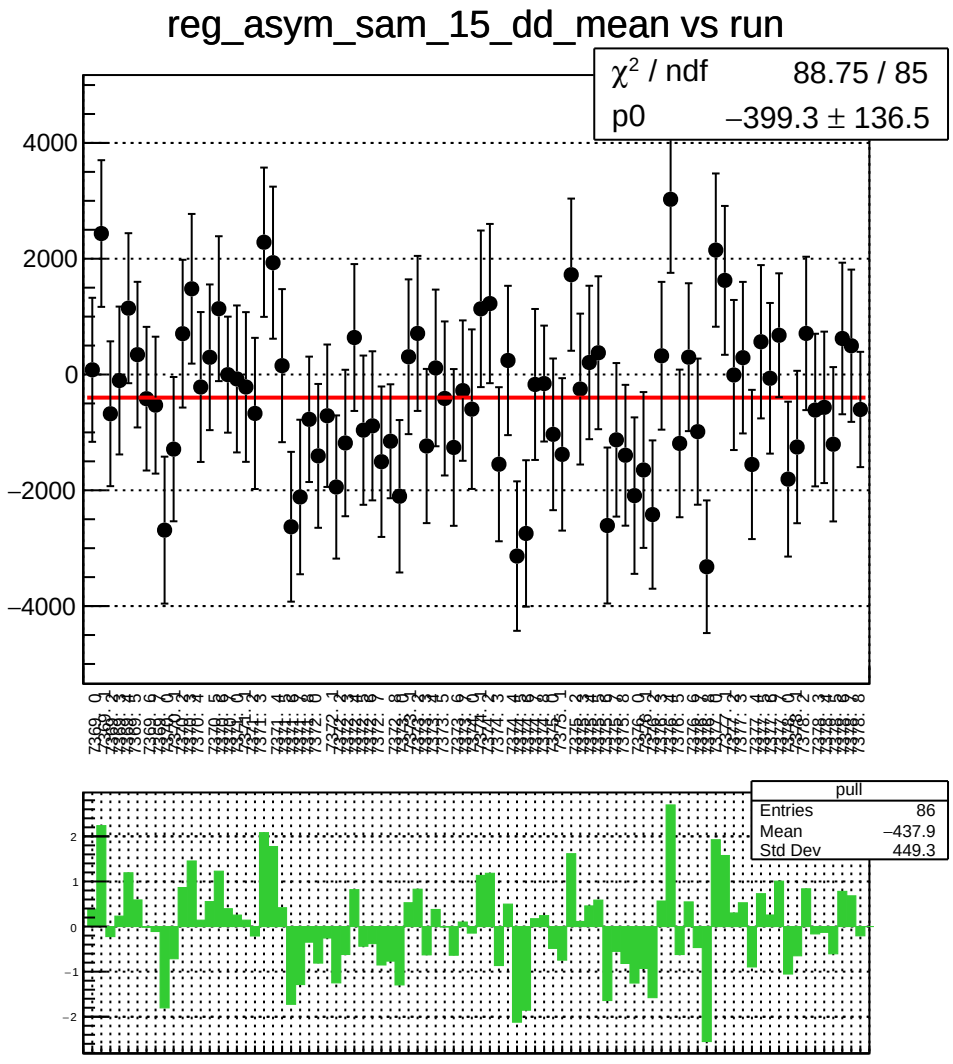

pull1D
Entries 86
Mean −0.005102
Std Dev 1.023

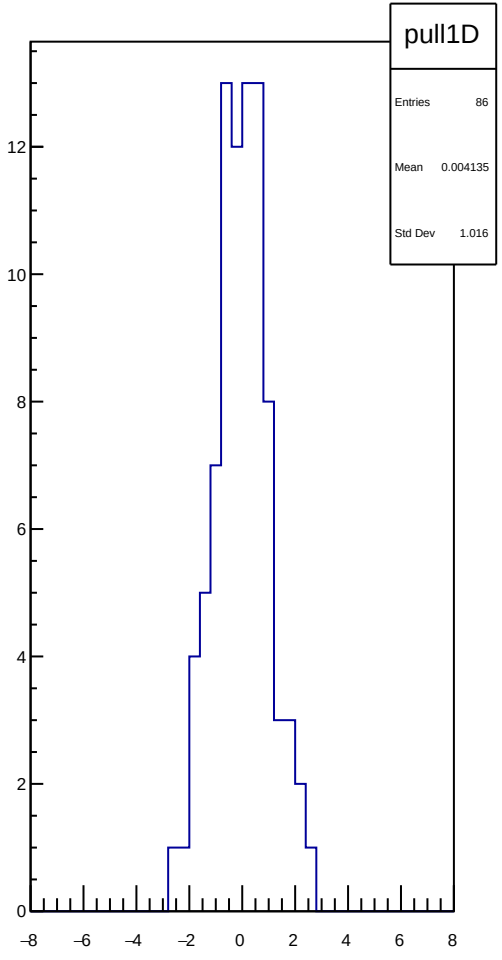

asym_sam_48_avg_correction_rms vs run
χ² / ndf 6496 / 85
p0 1077 ± 0.8451
1300
1250
1200
1150
1100
1050
1000
950
900

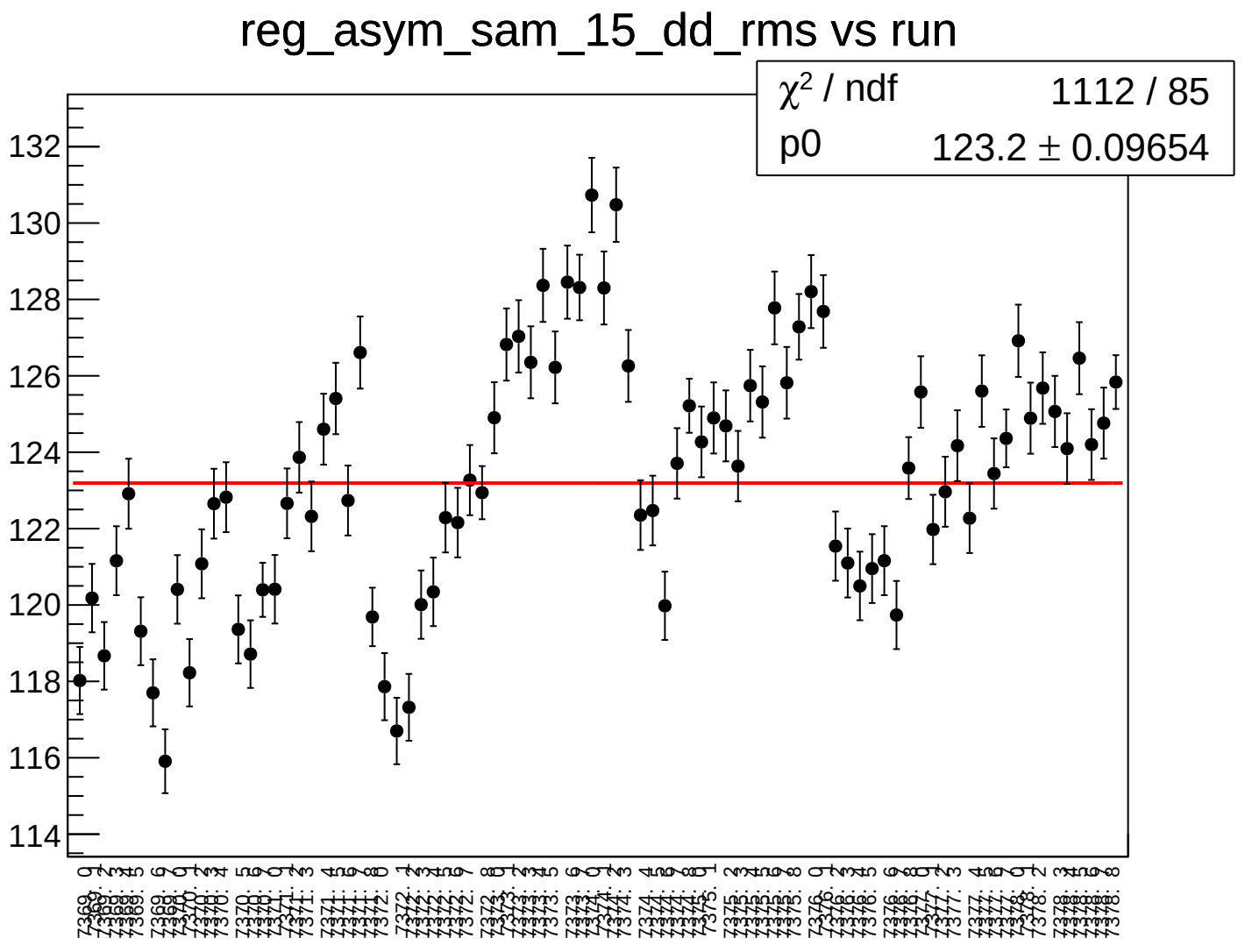

asym_sam_48_avg_mean vs run
χ² / ndf 83.46 / 85
p0 174.5 ± 1216
pull
Entries 86
Mean −231
Std Dev 252.5

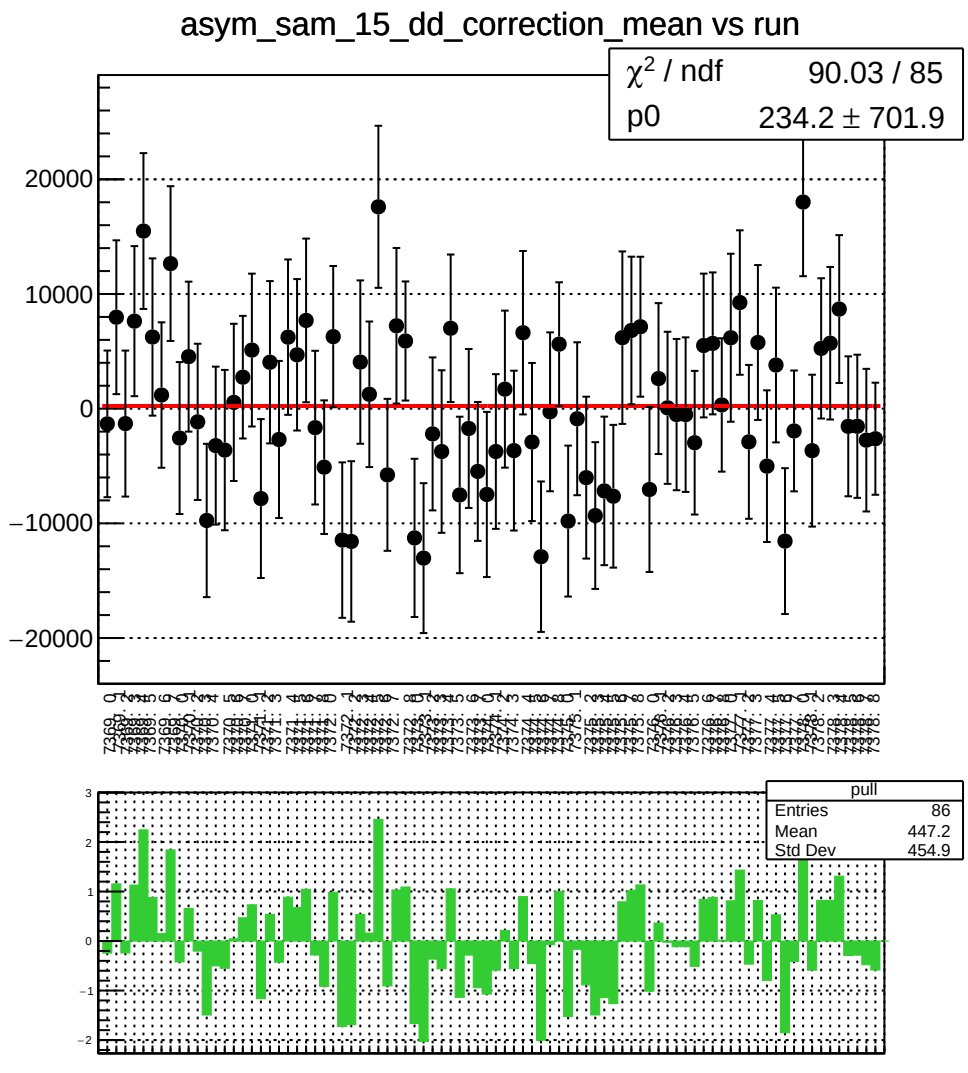

pull1D
Entries 86
Mean 0.003501
Std Dev 0.9851

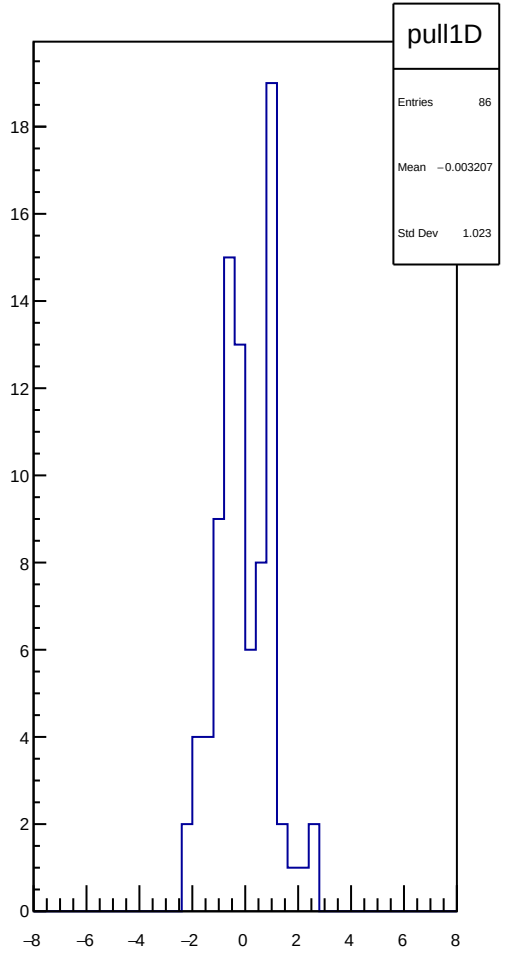

asym_sam_48_avg_rms vs run
χ^2 / ndf 6674 / 85
p0 1095 ± 0.8596
1350
1300
1250
1200
1150
1100
1050
1000
950
900

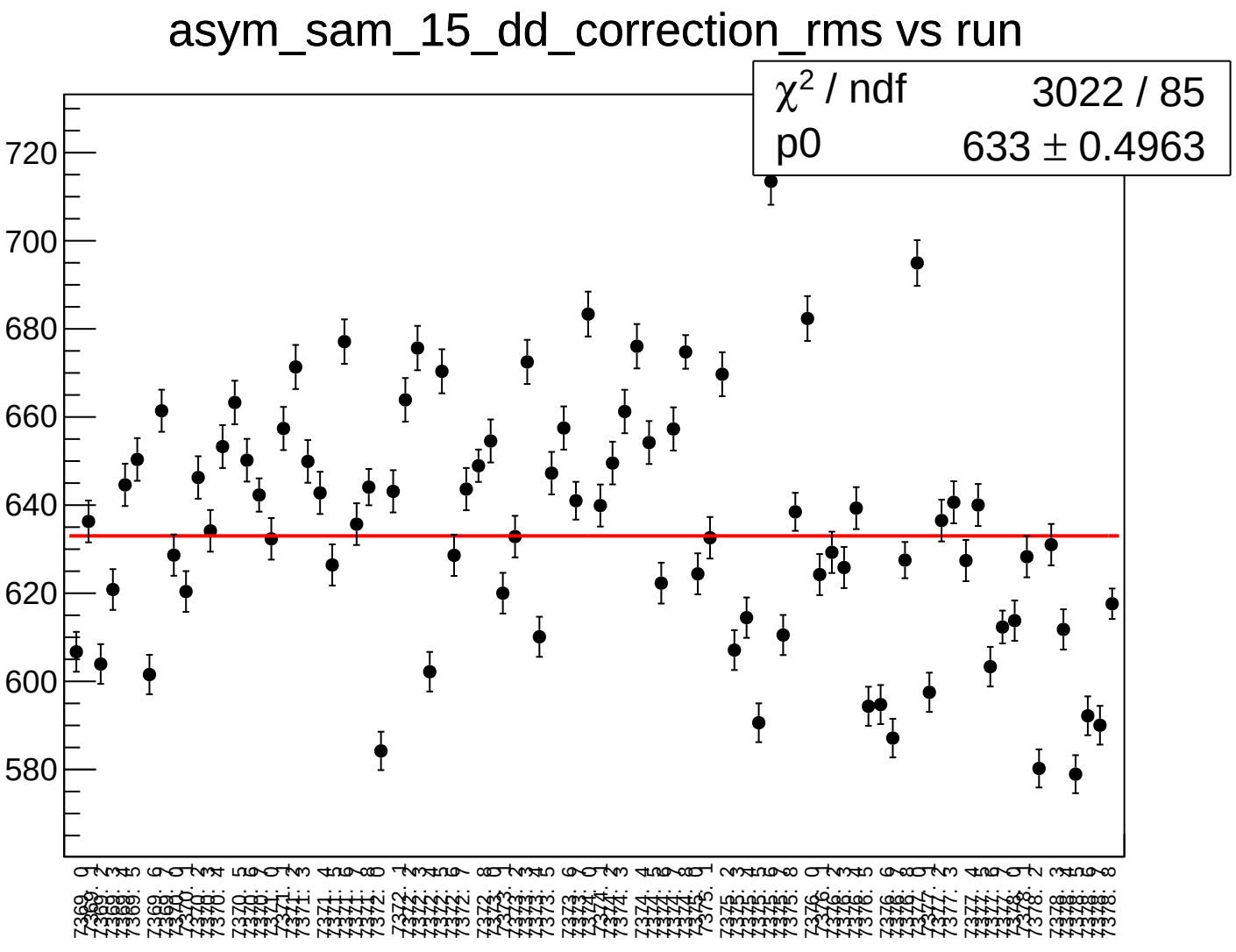

reg_asym_sam_15_dd_mean vs run
χ² / ndf 88.75 / 85
p0 −399.3 ± 136.5
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −437.9
Std Dev 449.3
2
1
0
−1
−2

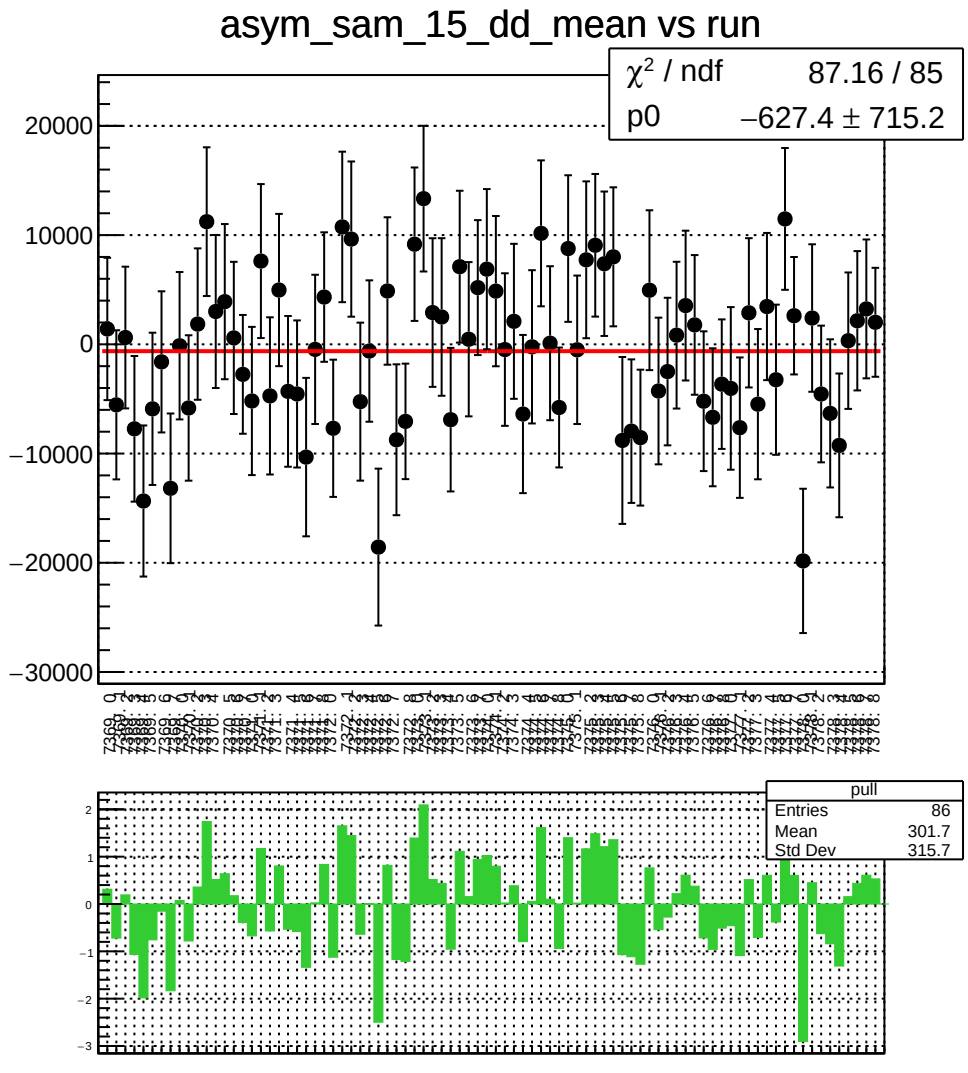

pull1D
Entries 86
Mean 0.004135
Std Dev 1.016
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

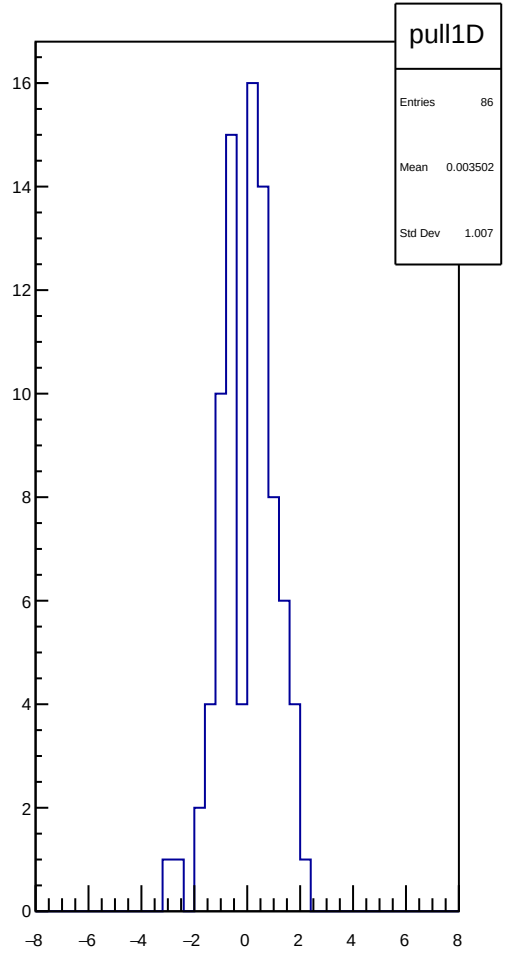

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 1112 / 85
p0 123.2 ± 0.09654
132
130
128
126
124
122
120
118
116
114

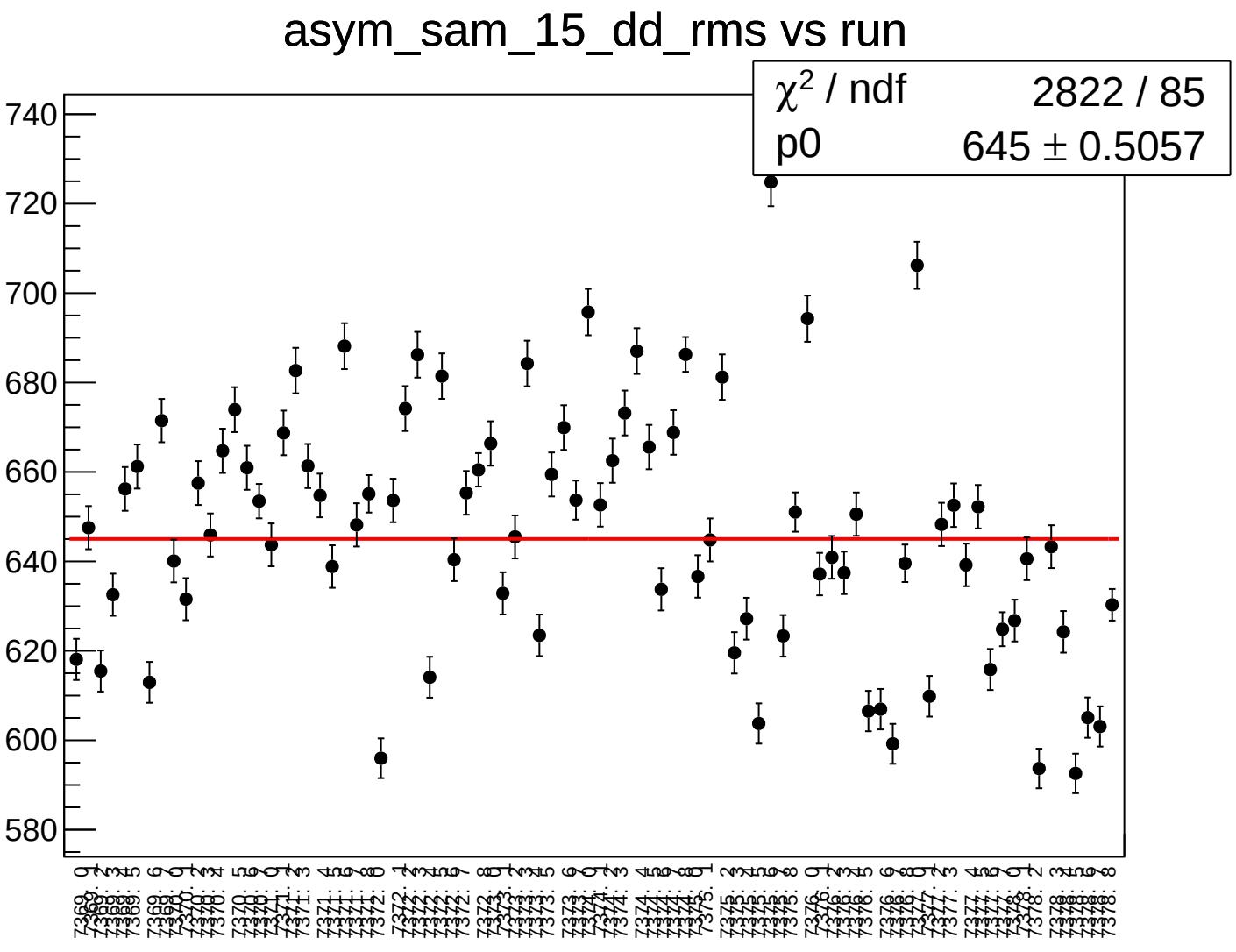

asym_sam_15_dd_correction_mean vs run
χ² / ndf 90.03 / 85
p0 234.2 ± 701.9
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 447.2
Std Dev 454.9
3
2
1
0
−1
−2

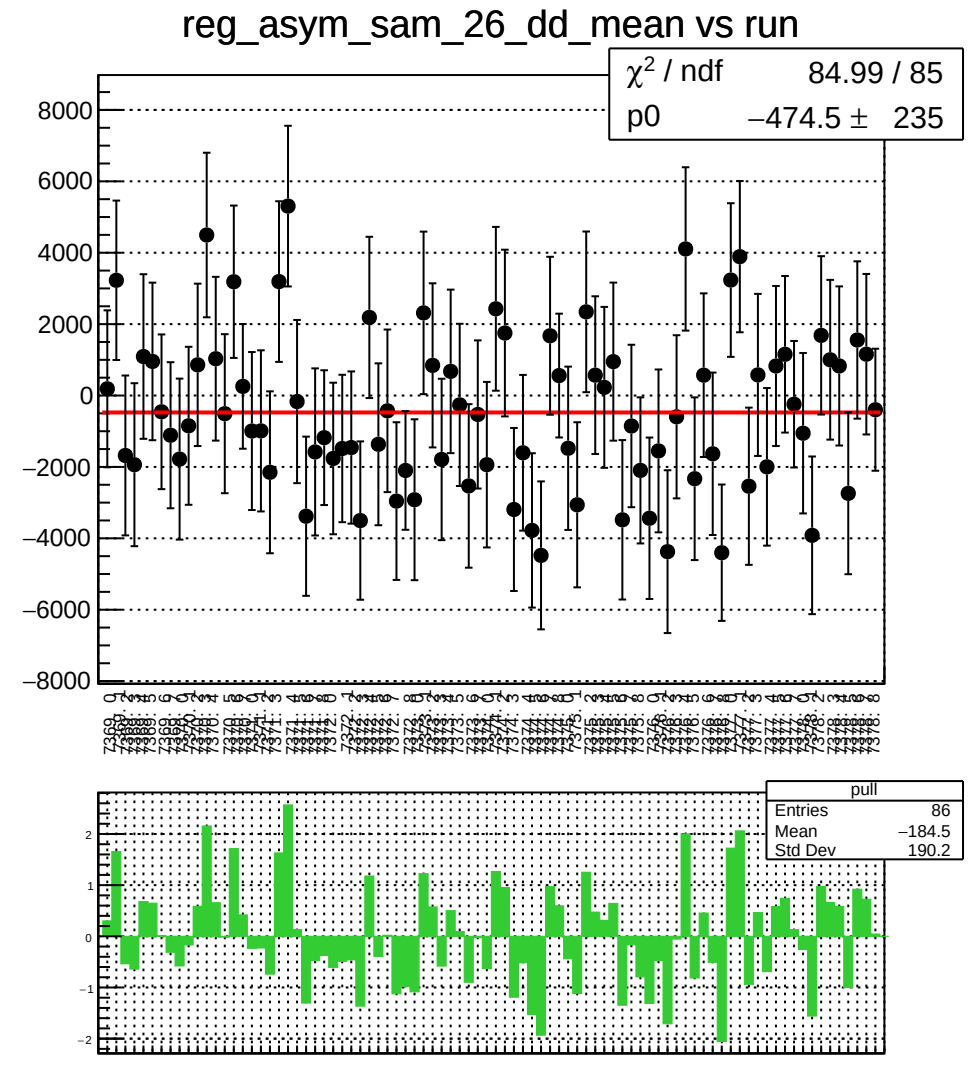

pull1D
Entries 86
Mean −0.003207
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

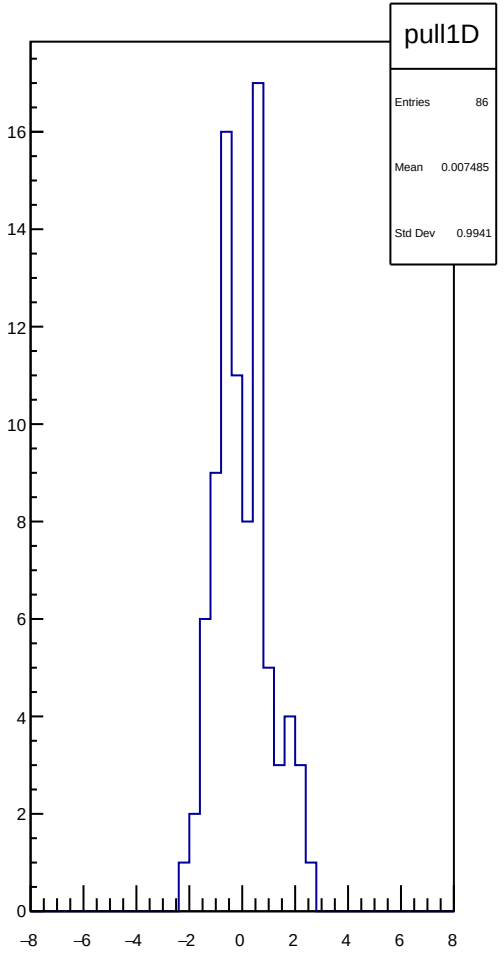

asym_sam_15_dd_correction_rms vs run
χ² / ndf 3022 / 85
p0 633 ± 0.4963
720
700
680
660
640
620
600
580

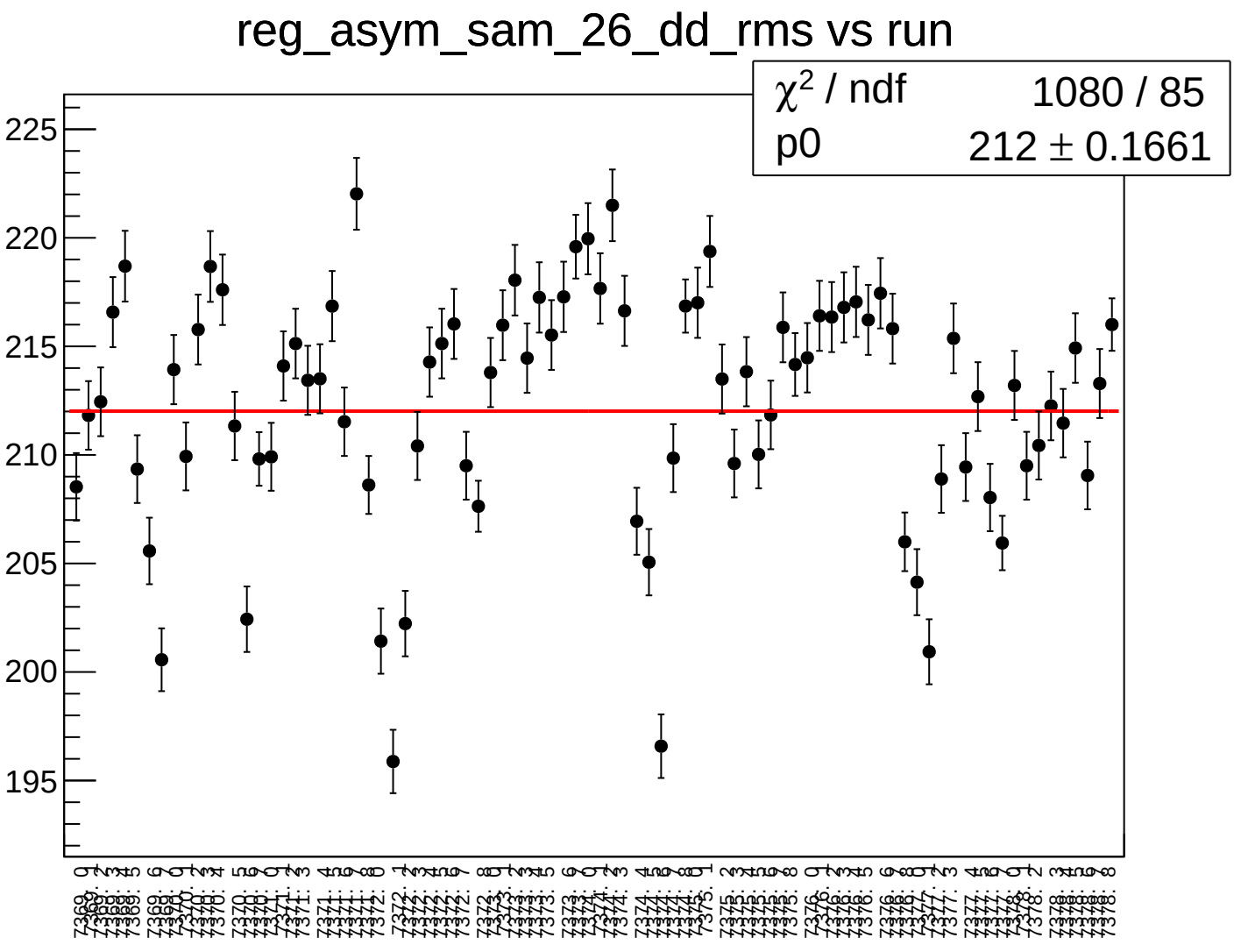

asym_sam_15_dd_mean vs run
χ² / ndf 87.16 / 85
p0 −627.4 ± 715.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 301.7
Std Dev 315.7
2
1
0
−1
−2
−3

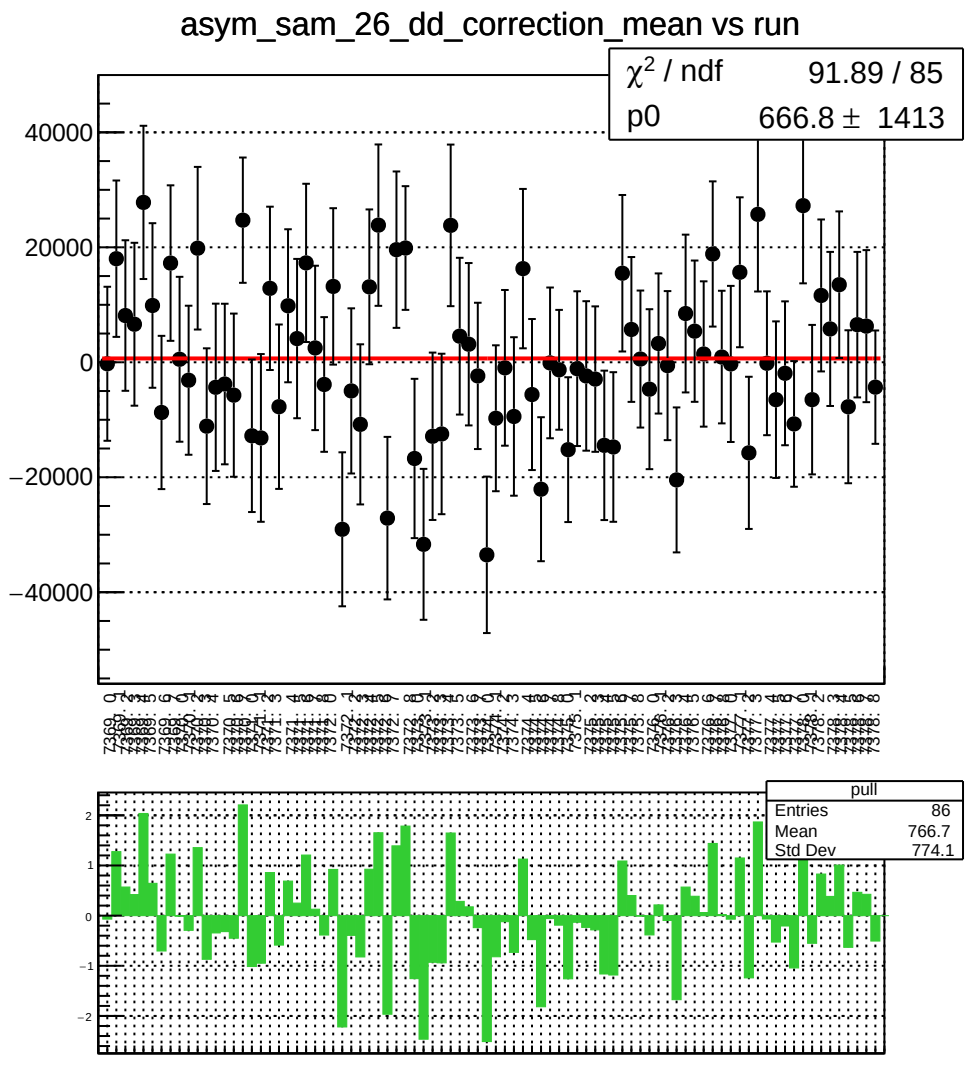

pull1D
Entries 86
Mean 0.003502
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

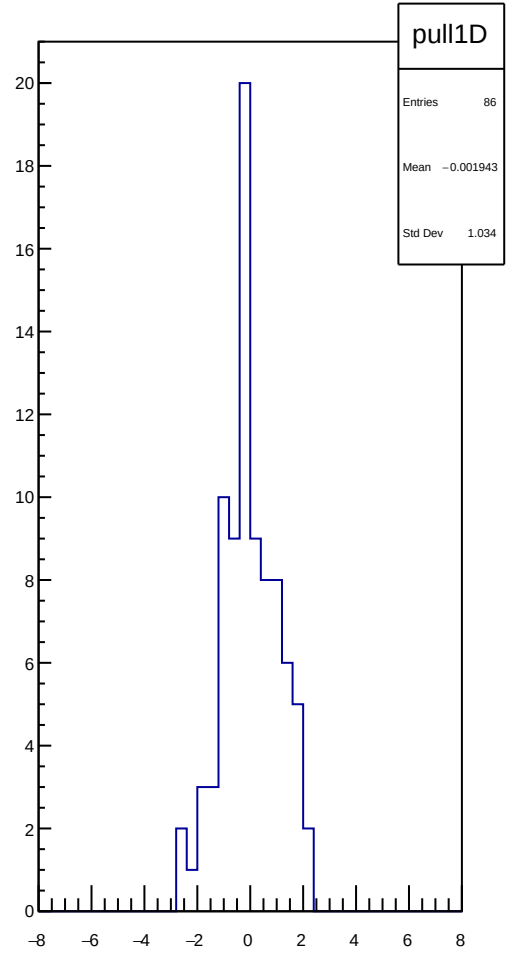

asym_sam_15_dd_rms vs run
χ² / ndf 2822 / 85
p0 645 ± 0.5057
740
720
700
680
660
640
620
600
580

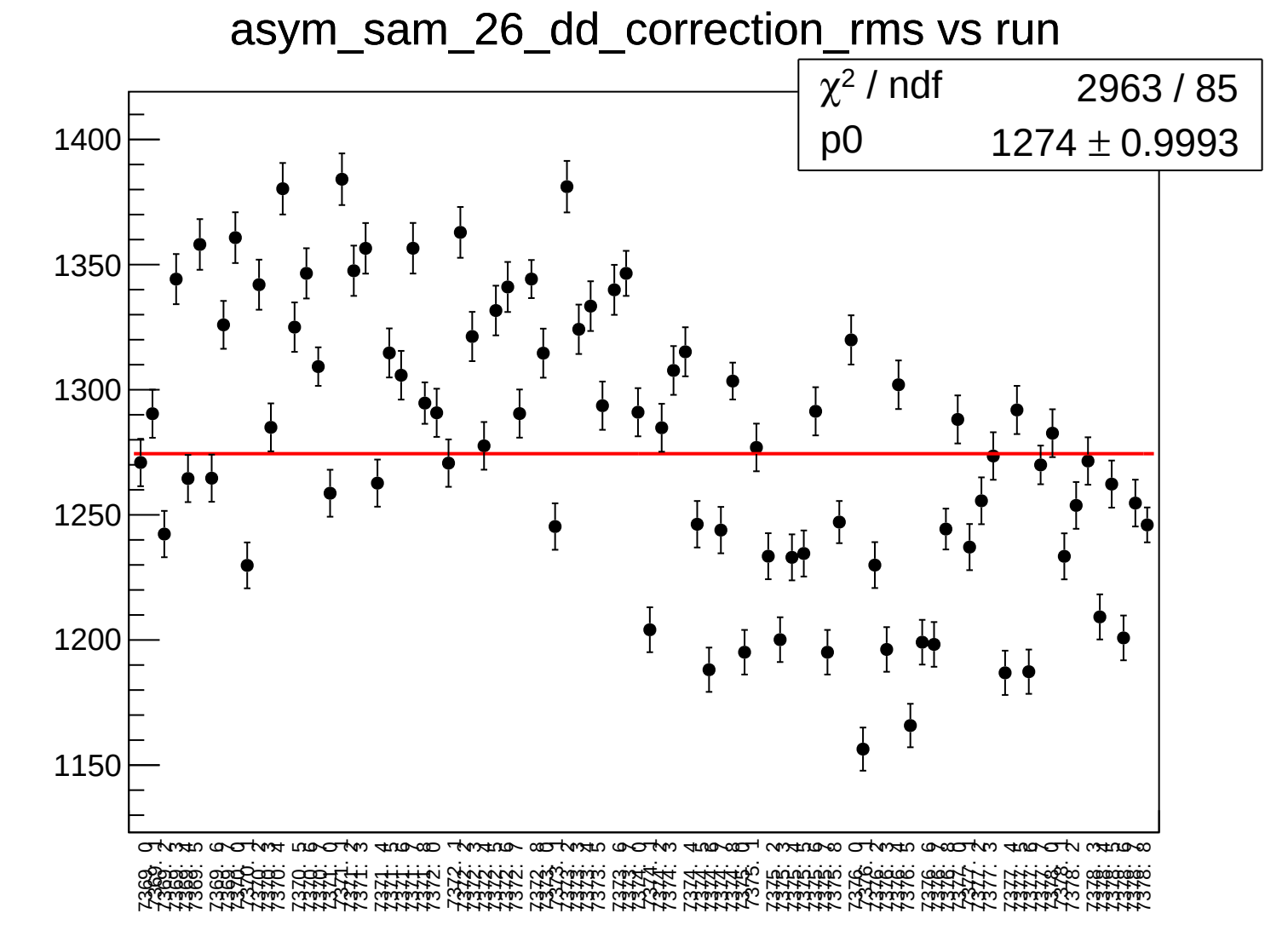

reg_asym_sam_26_dd_mean vs run
χ² / ndf 84.99 / 85
p0 −474.5 ± 235
pull
Entries 86
Mean −184.5
Std Dev 190.2

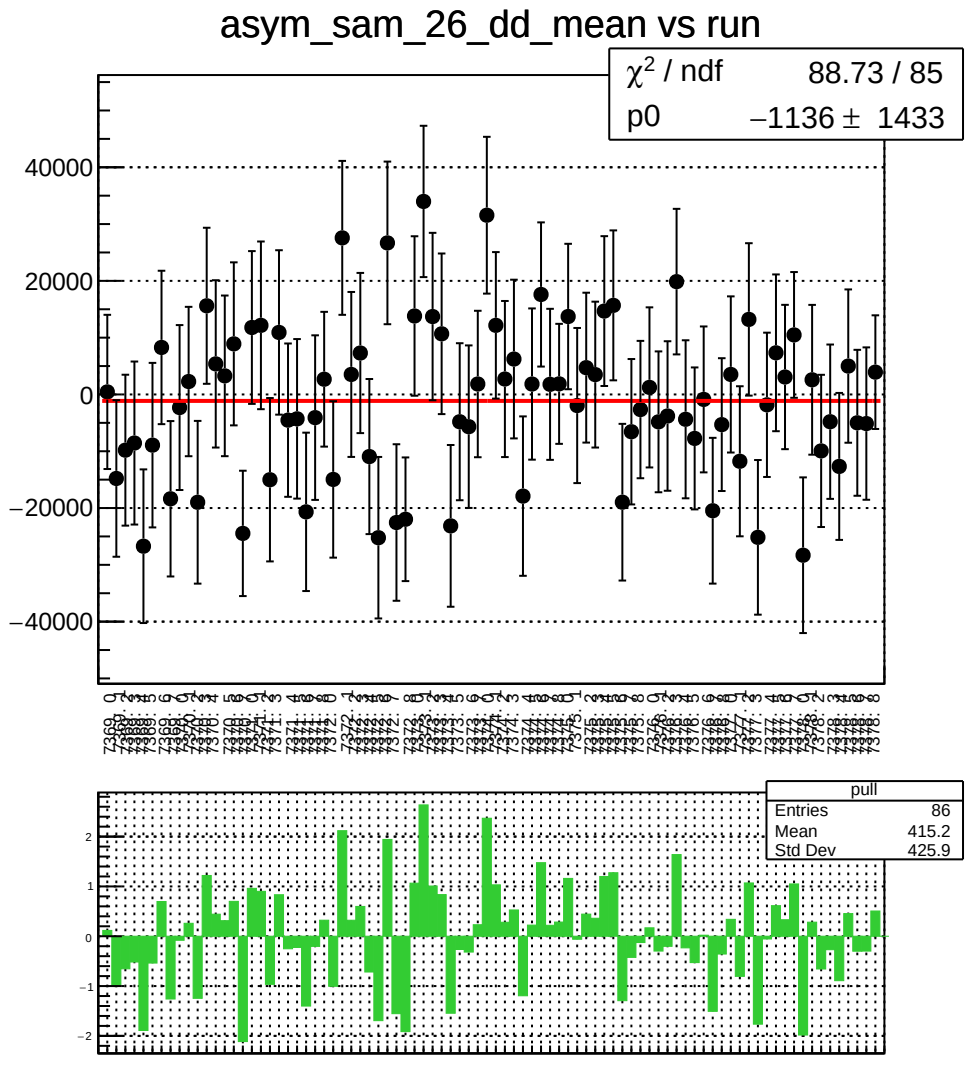

pull1D
Entries 86
Mean 0.007485
Std Dev 0.9941

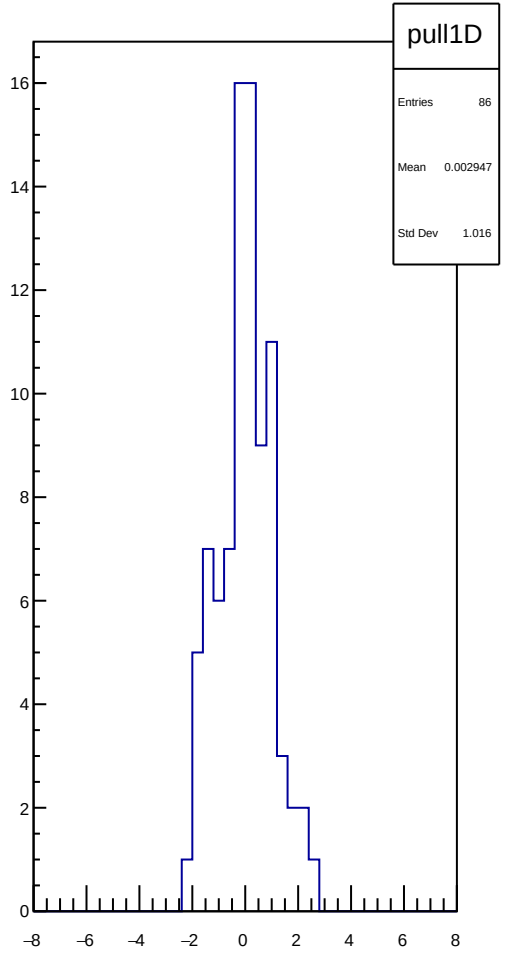

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1080 / 85
p0 212 ± 0.1661
225
220
215
210
205
200
195

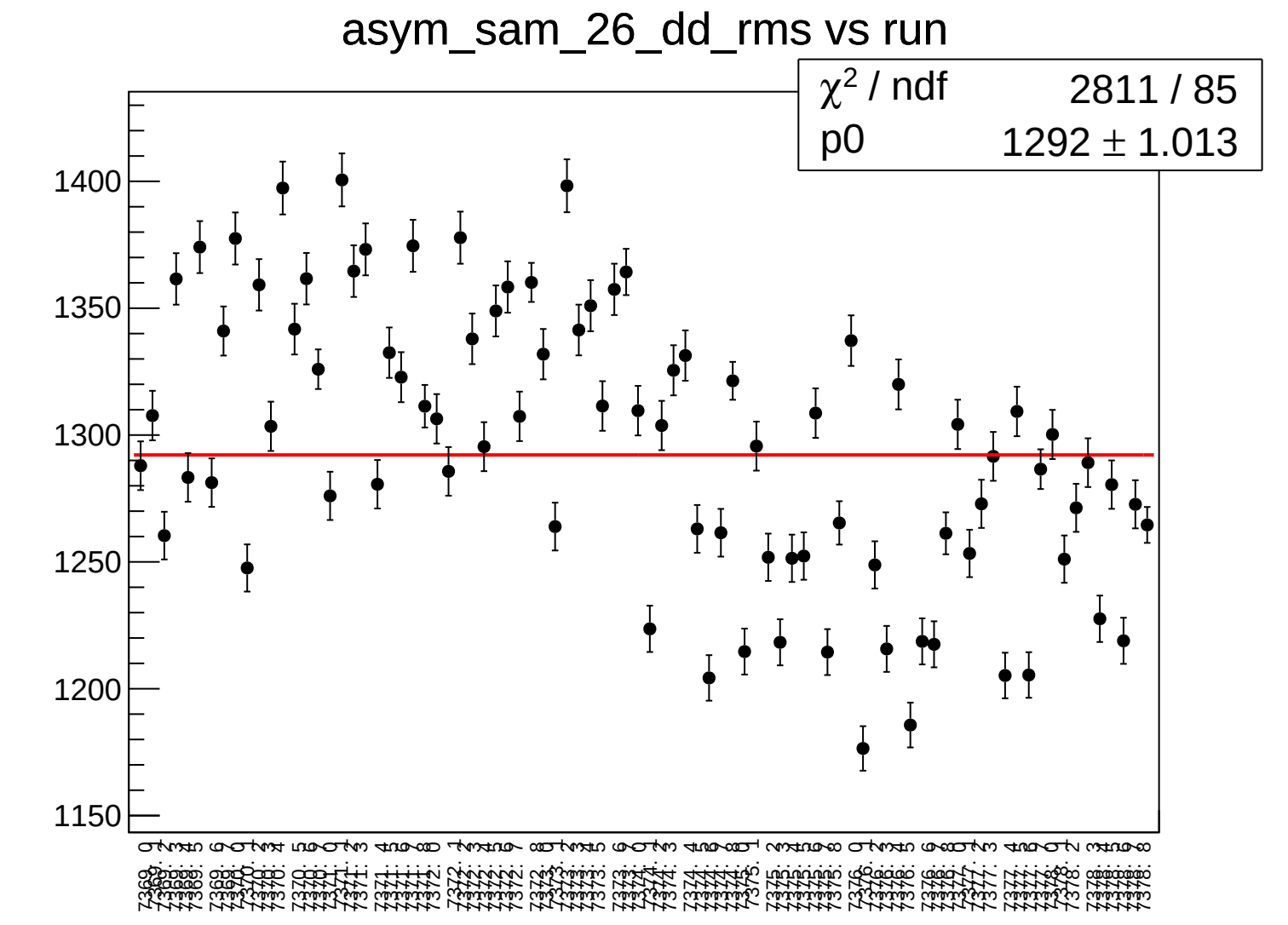

asym_sam_26_dd_correction_mean vs run
χ² / ndf 91.89 / 85
p0 666.8 ± 1413
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 766.7
Std Dev 774.1
2
1
0
−1
−2

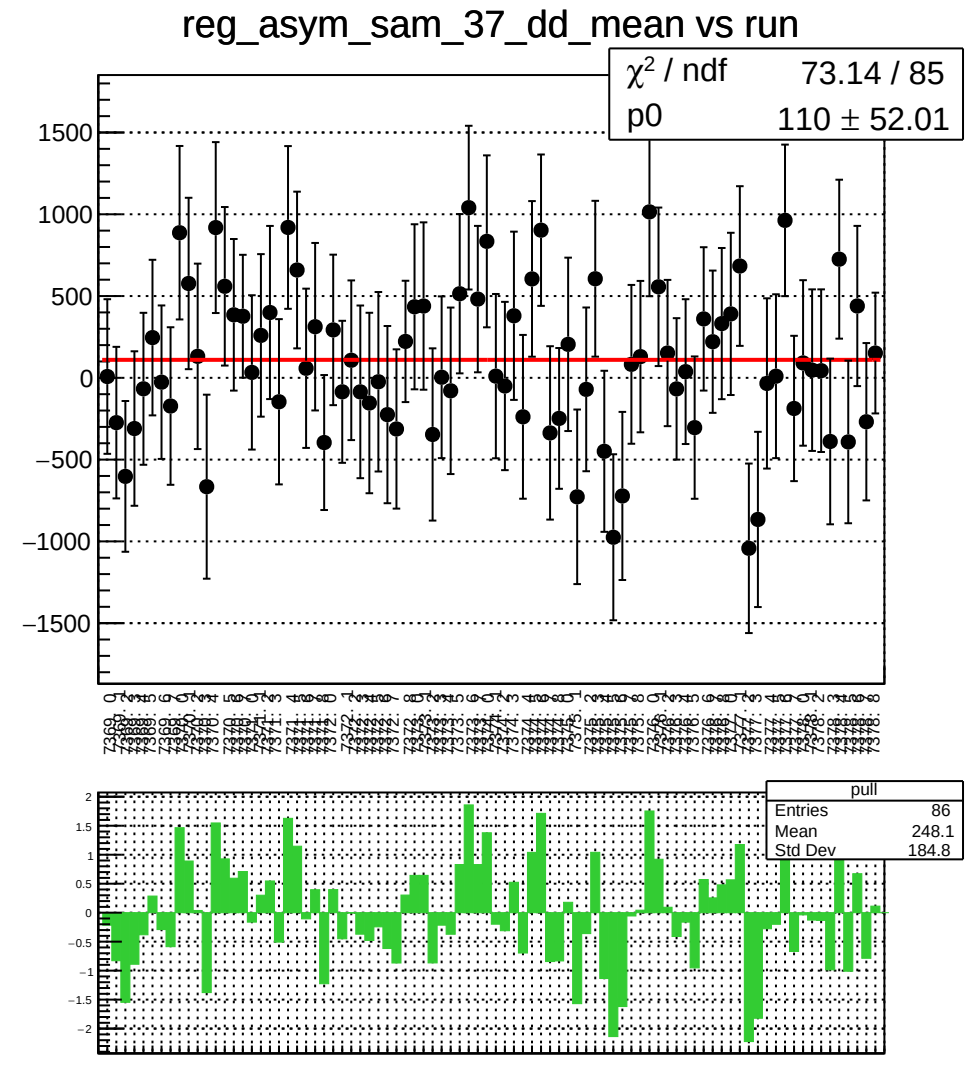

pull1D
Entries 86
Mean −0.001943
Std Dev 1.034
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

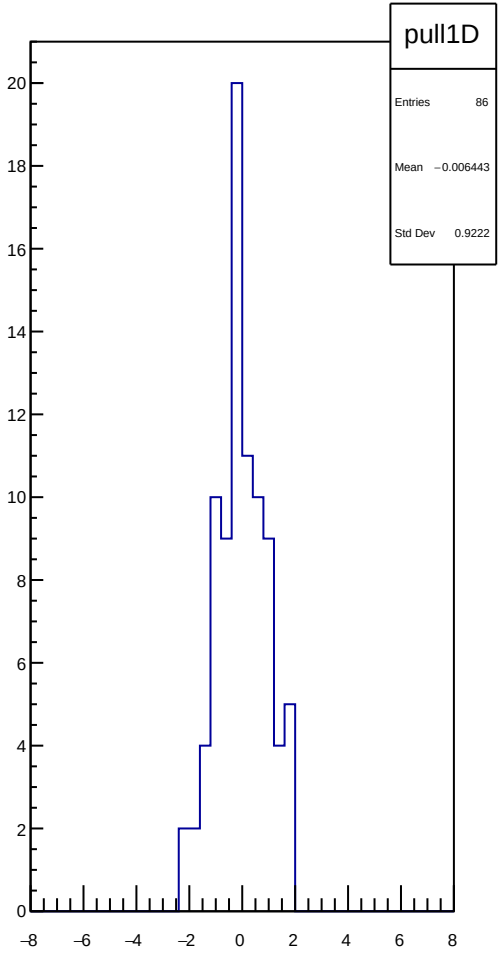

asym_sam_26_dd_correction_rms vs run
χ² / ndf 2963 / 85
p0 1274 ± 0.9993
1400
1350
1300
1250
1200
1150

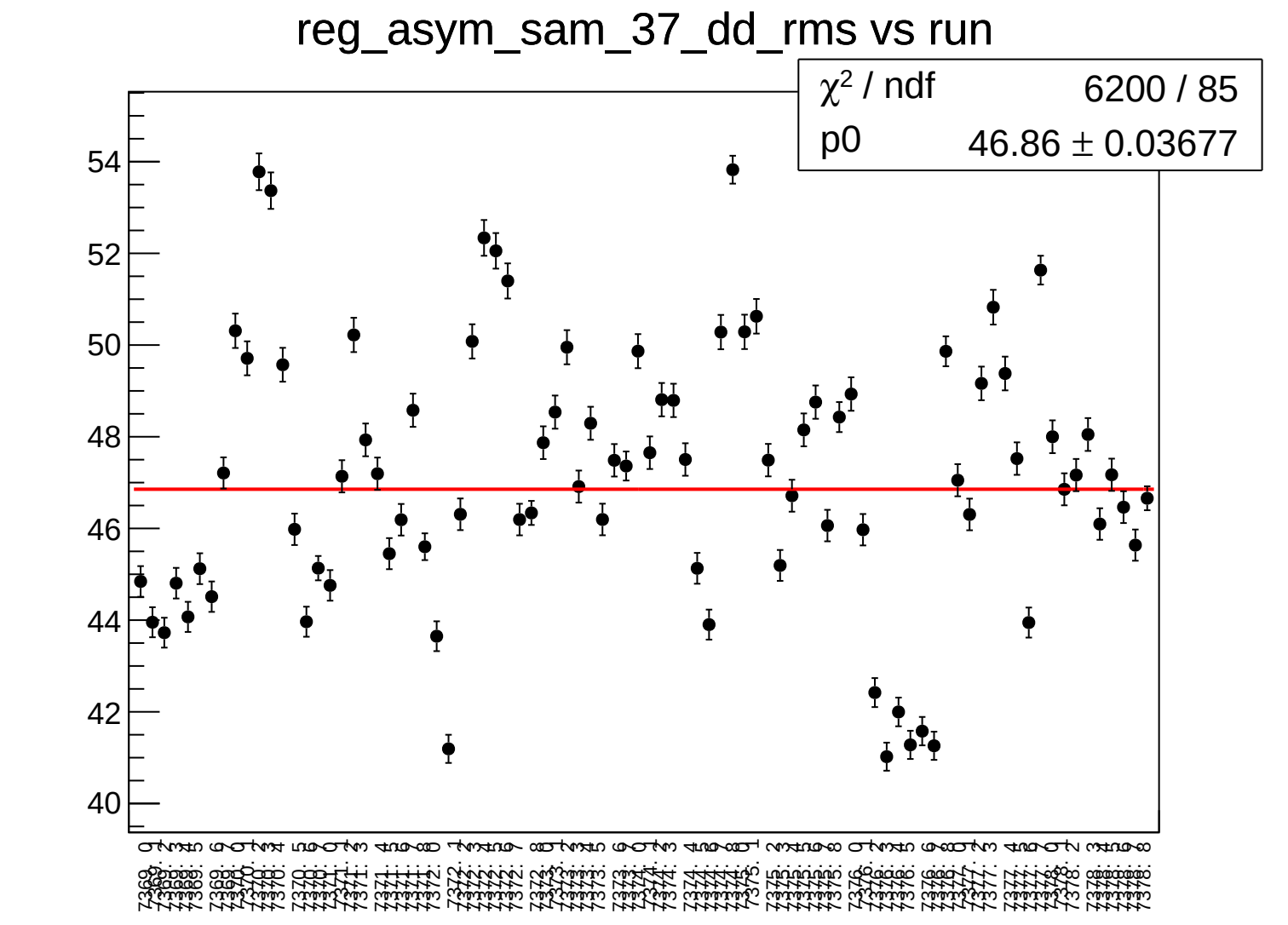

asym_sam_26_dd_mean vs run
χ² / ndf 88.73 / 85
p0 −1136 ± 1433
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 415.2
Std Dev 425.9
2
1
0
−1
−2

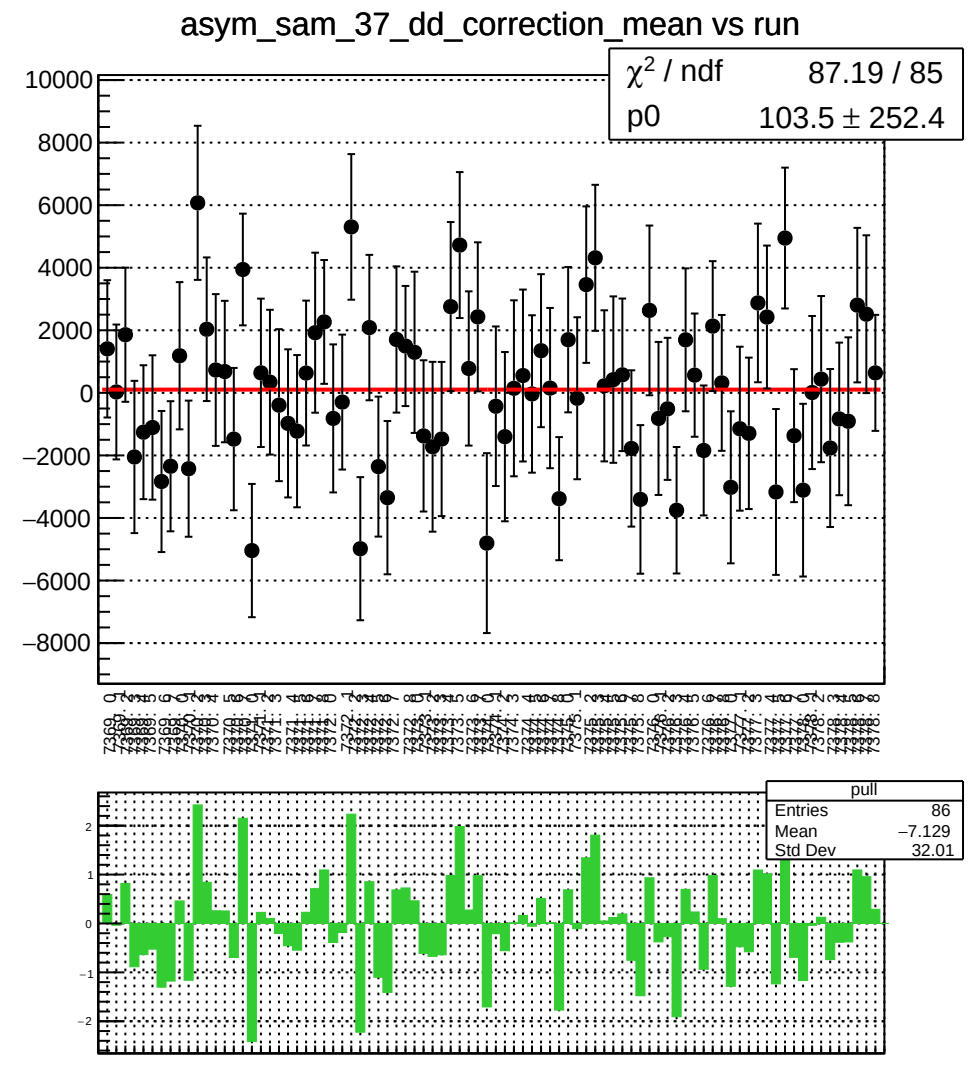

pull1D
Entries 86
Mean 0.002947
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

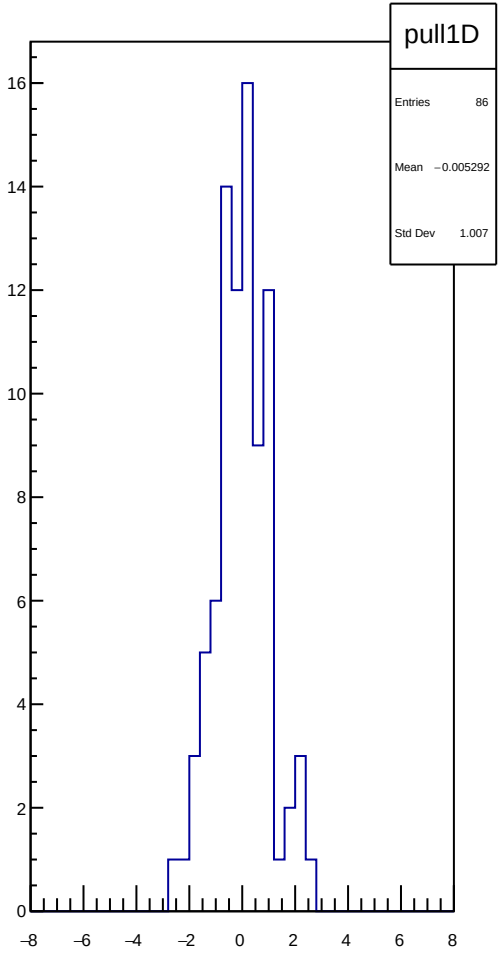

asym_sam_26_dd_rms vs run
χ^2 / ndf 2811 / 85
p0 1292 ± 1.013
1400
1350
1300
1250
1200
1150

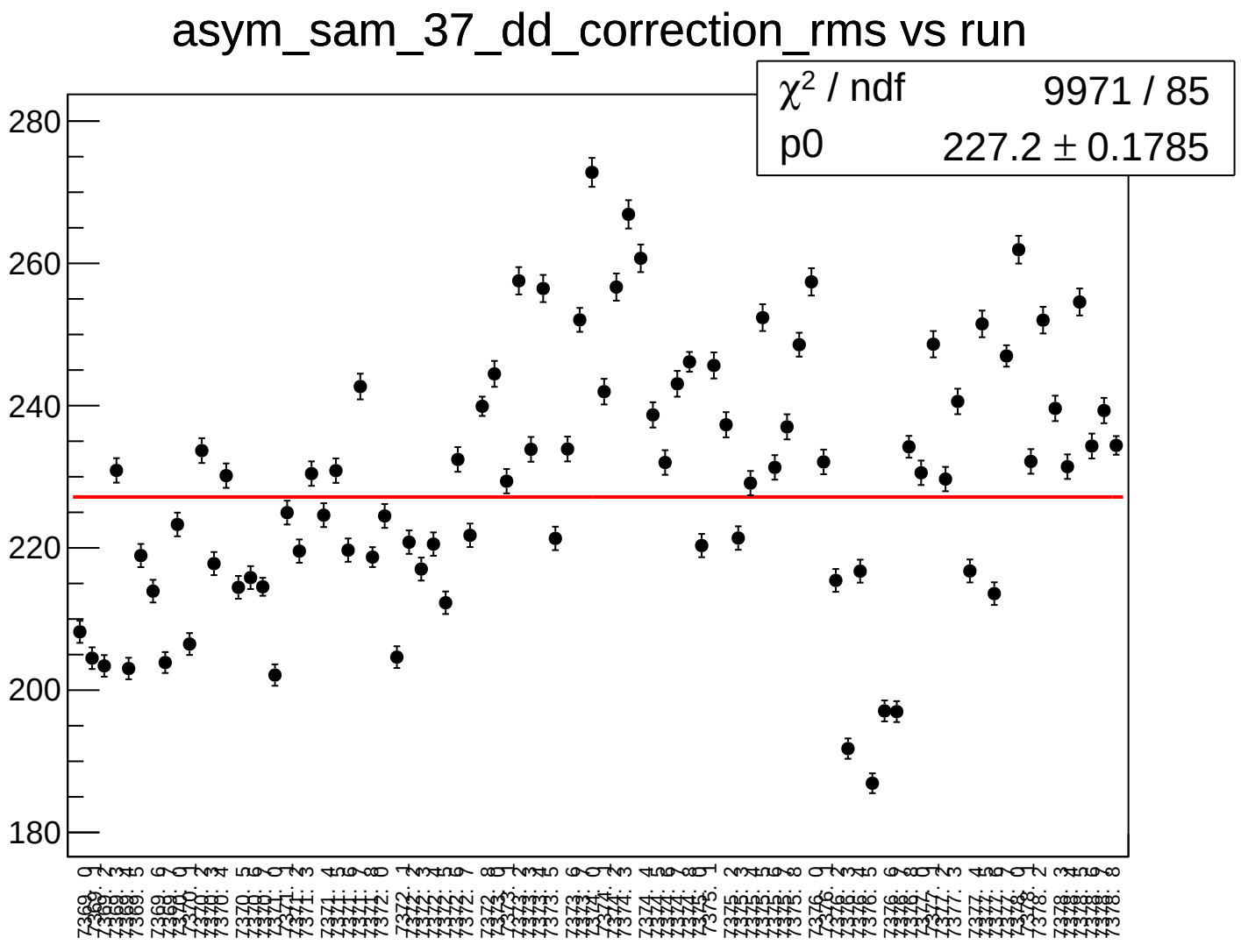

reg_asym_sam_37_dd_mean vs run
χ² / ndf 73.14 / 85
p0 110 ± 52.01
pull
Entries 86
Mean 248.1
Std Dev 184.8

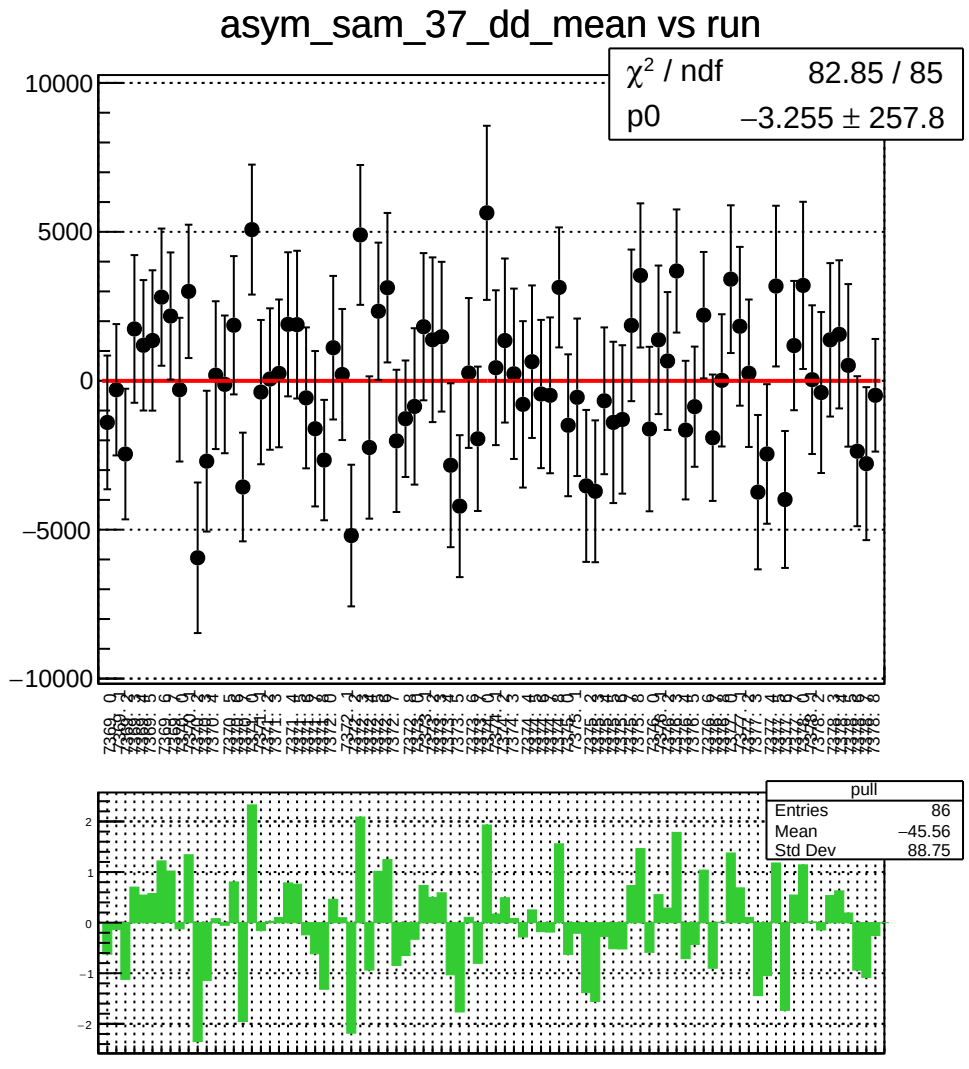

pull1D
Entries 86
Mean −0.006443
Std Dev 0.9222

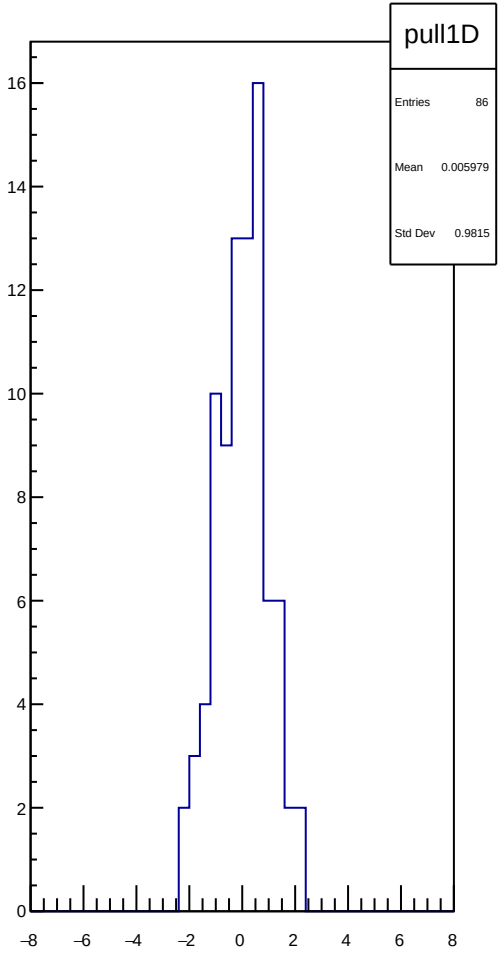

reg_asym_sam_37_dd_rms vs run
χ² / ndf 6200 / 85
p0 46.86 ± 0.03677
54
52
50
48
46
44
42
40

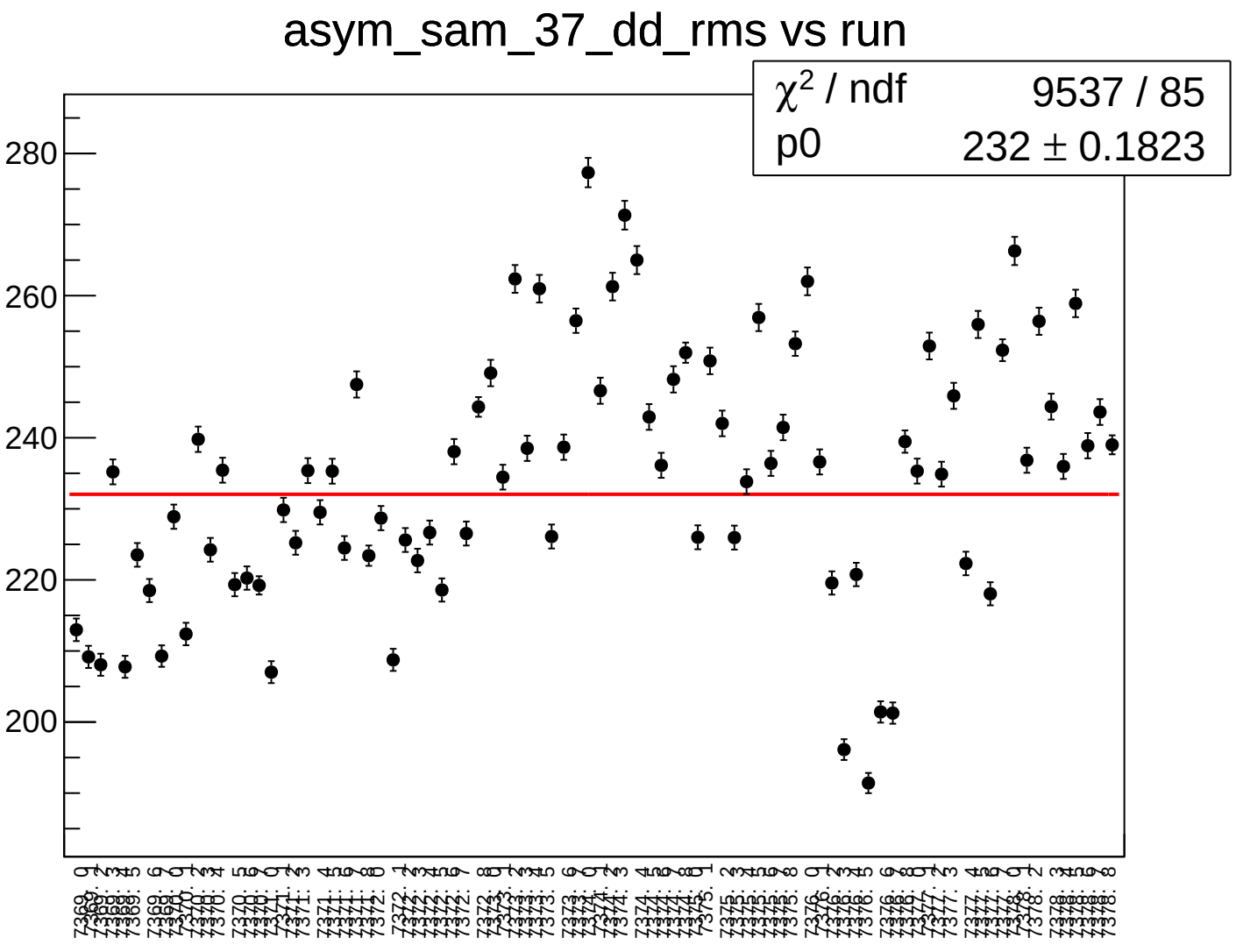

asym_sam_37_dd_correction_mean vs run
χ² / ndf 87.19 / 85
p0 103.5 ± 252.4
pull
Entries 86
Mean −7.129
Std Dev 32.01

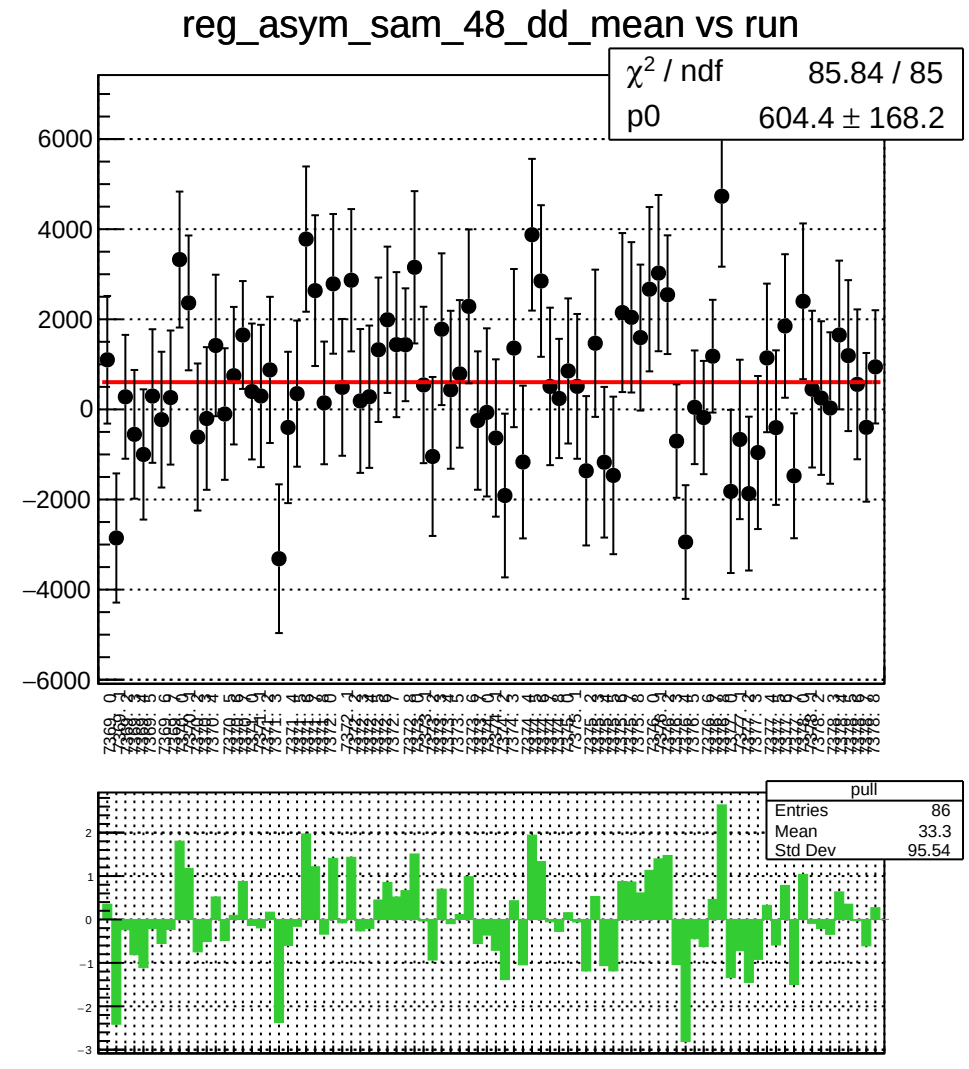

pull1D
Entries 86
Mean −0.005292
Std Dev 1.007

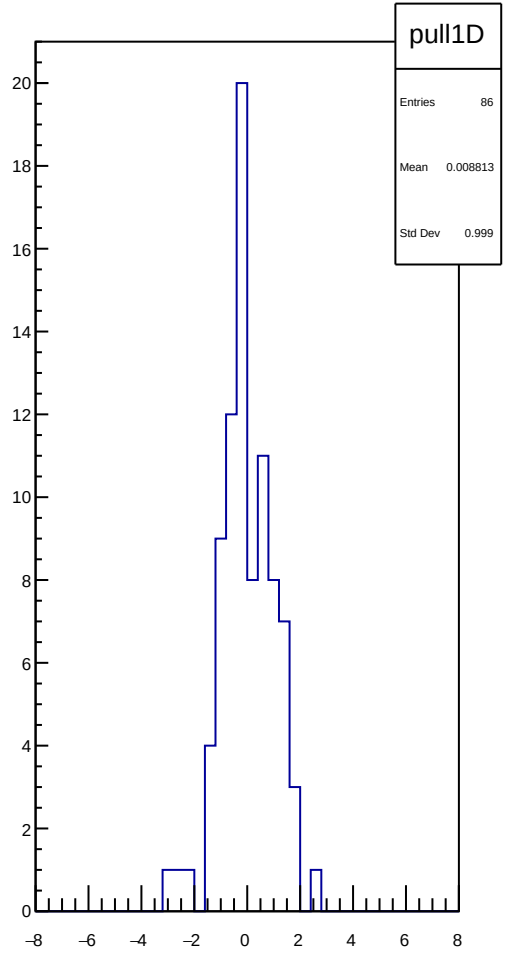

asym_sam_37_dd_correction_rms vs run
χ^2 / ndf 9971 / 85
p0 227.2 ± 0.1785
280
260
240
220
200
180

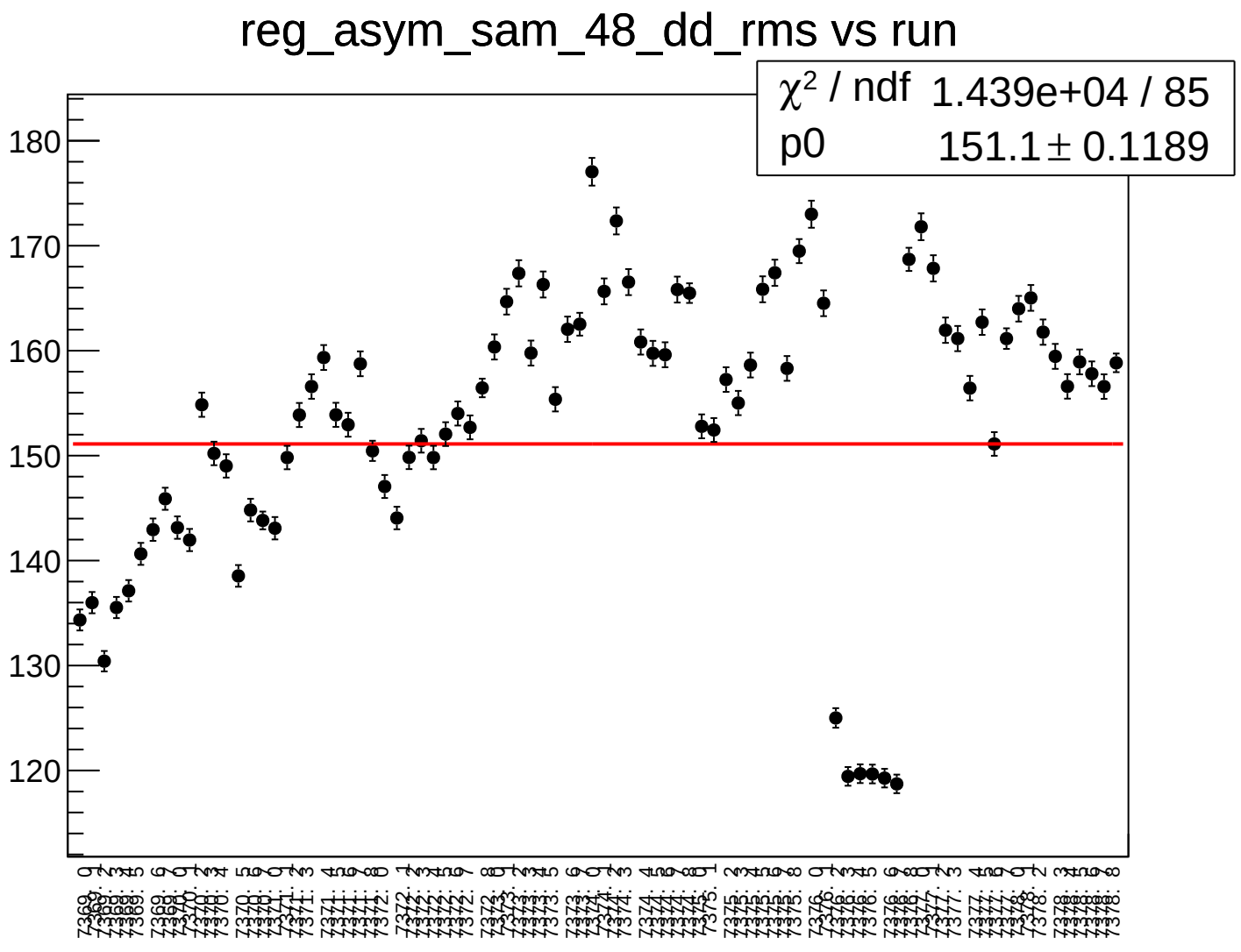

asym_sam_37_dd_mean vs run
χ² / ndf 82.85 / 85
p0 −3.255 ± 257.8
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −45.56
Std Dev 88.75
2
1
0
−1
−2

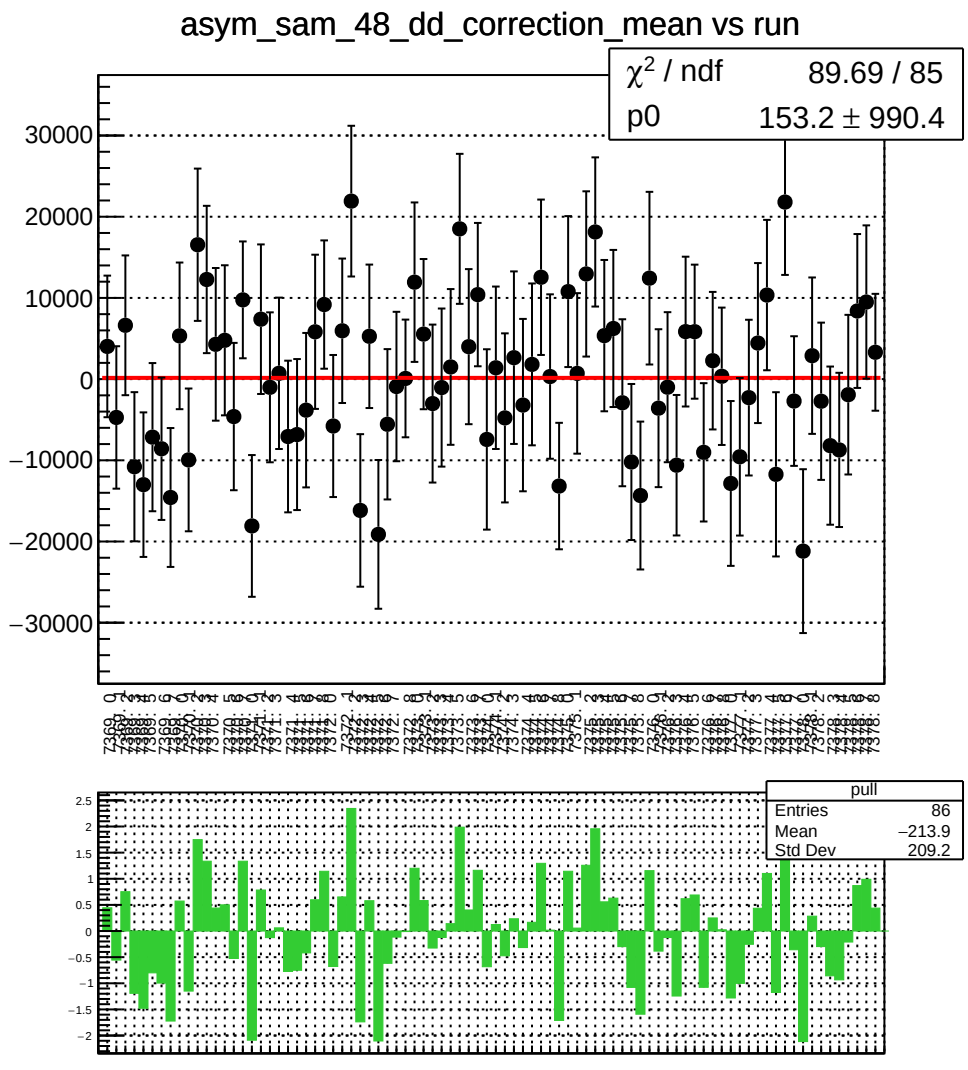

pull1D
Entries 86
Mean 0.005979
Std Dev 0.9815
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

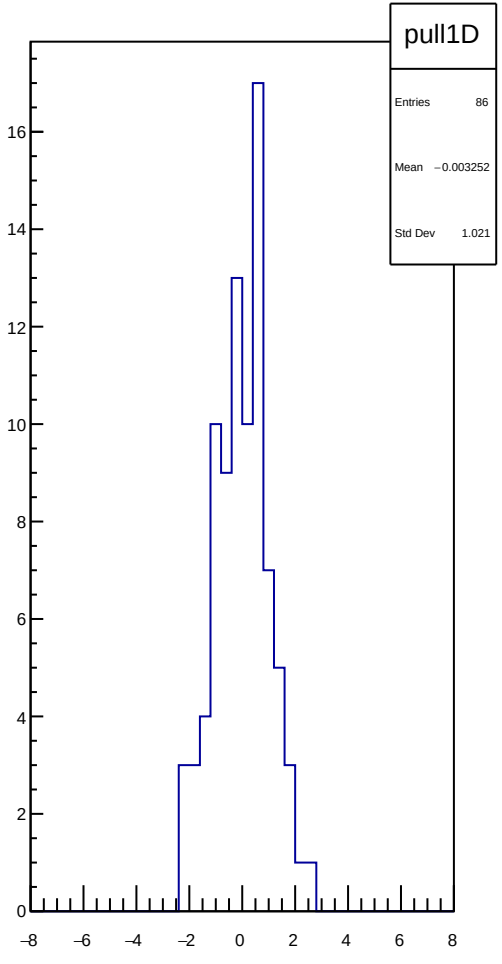

asym_sam_37_dd_rms vs run
χ^2 / ndf 9537 / 85
p0 232 ± 0.1823
280
260
240
220
200

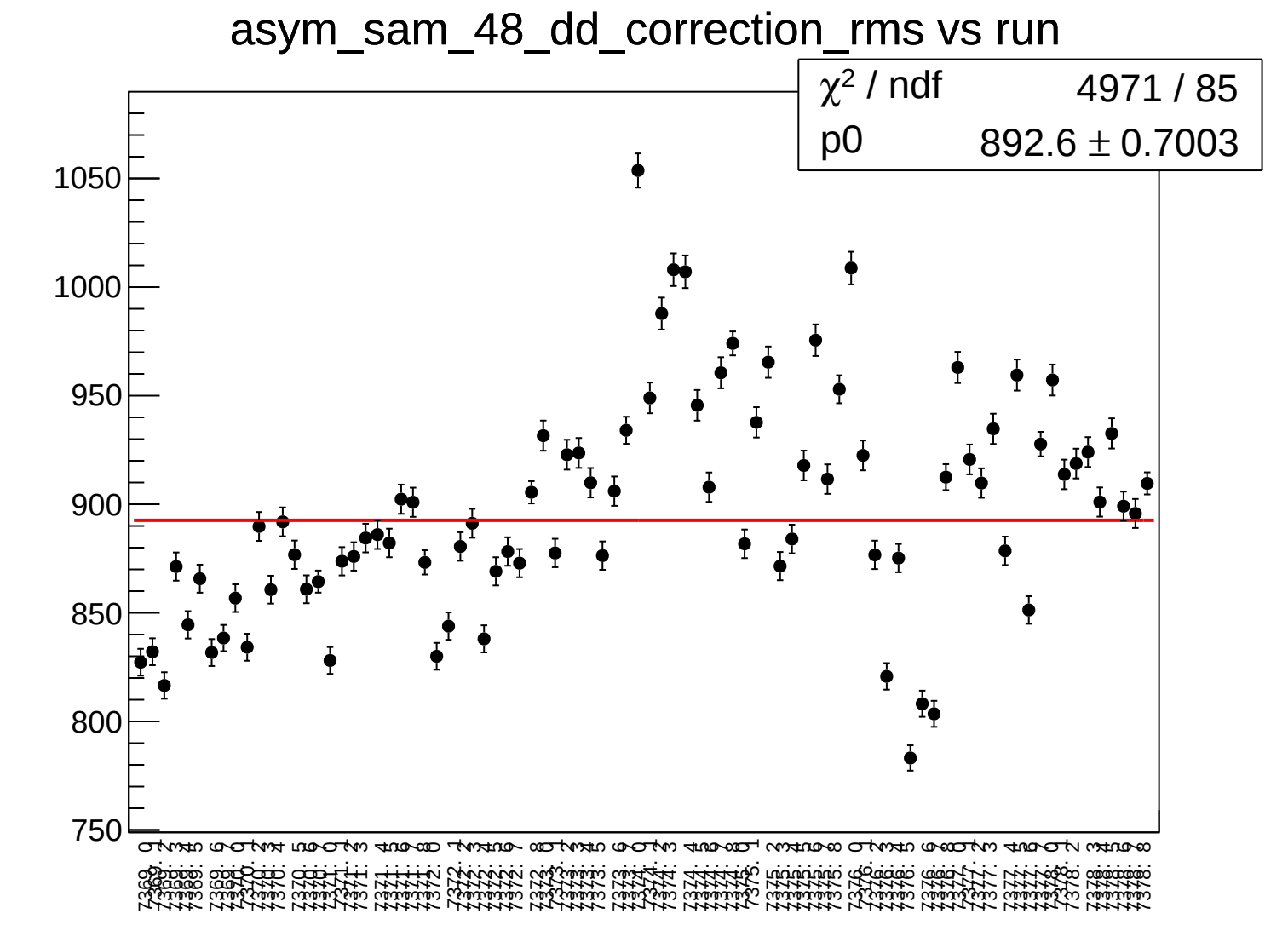

reg_asym_sam_48_dd_mean vs run
χ² / ndf 85.84 / 85
p0 604.4 ± 168.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean 33.3
Std Dev 95.54
2
1
0
−1
−2
−3

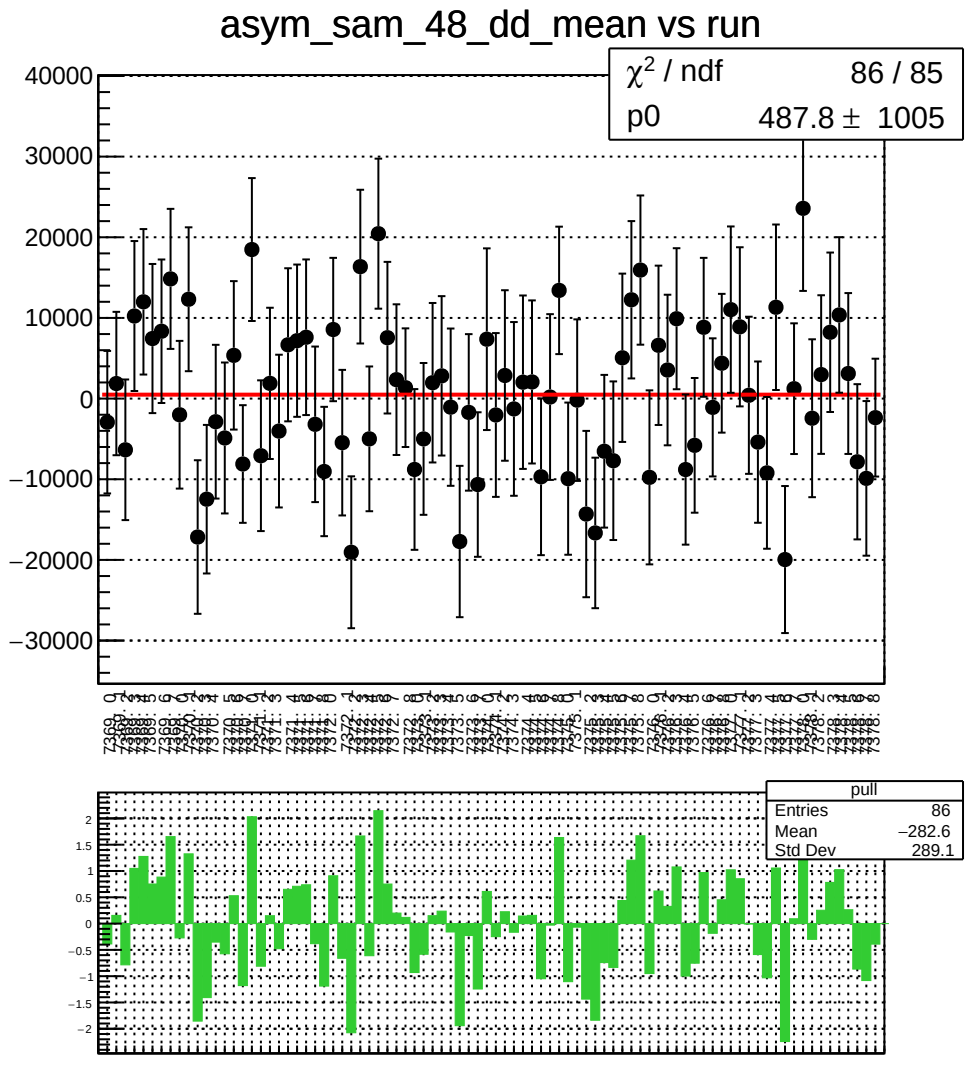

pull1D
Entries 86
Mean 0.008813
Std Dev 0.999
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

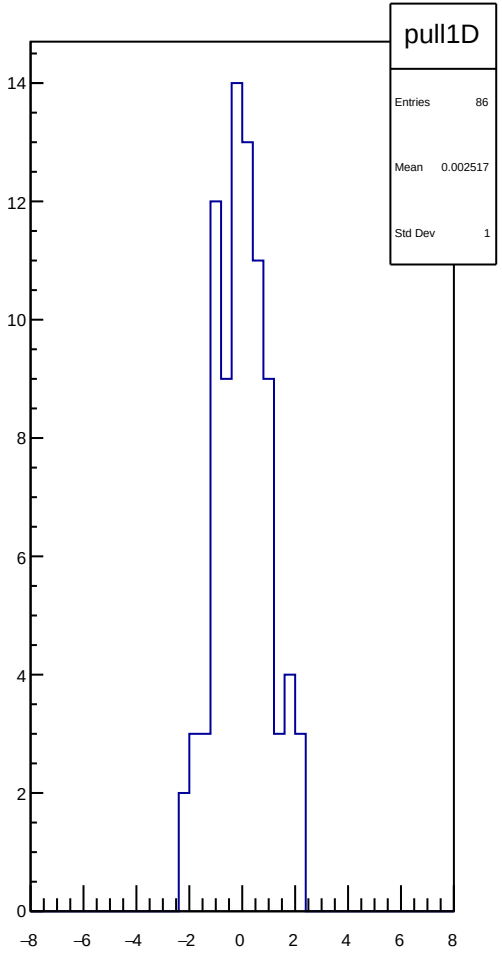

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1.439e+04 / 85
p0 151.1 ± 0.1189
180
170
160
150
140
130
120

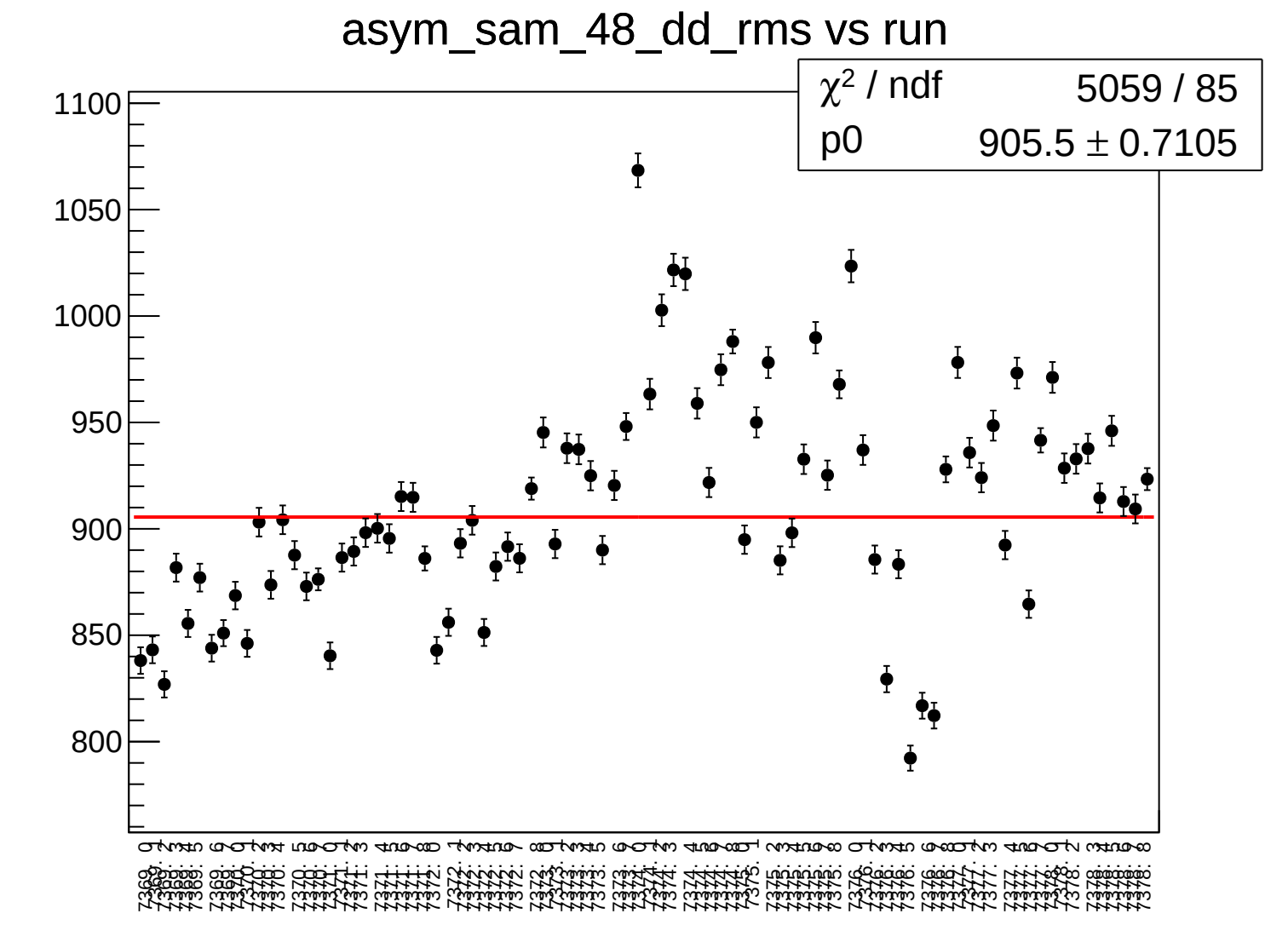

asym_sam_48_dd_correction_mean vs run
χ² / ndf 89.69 / 85
p0 153.2 ± 990.4
pull
Entries 86
Mean −213.9
Std Dev 209.2

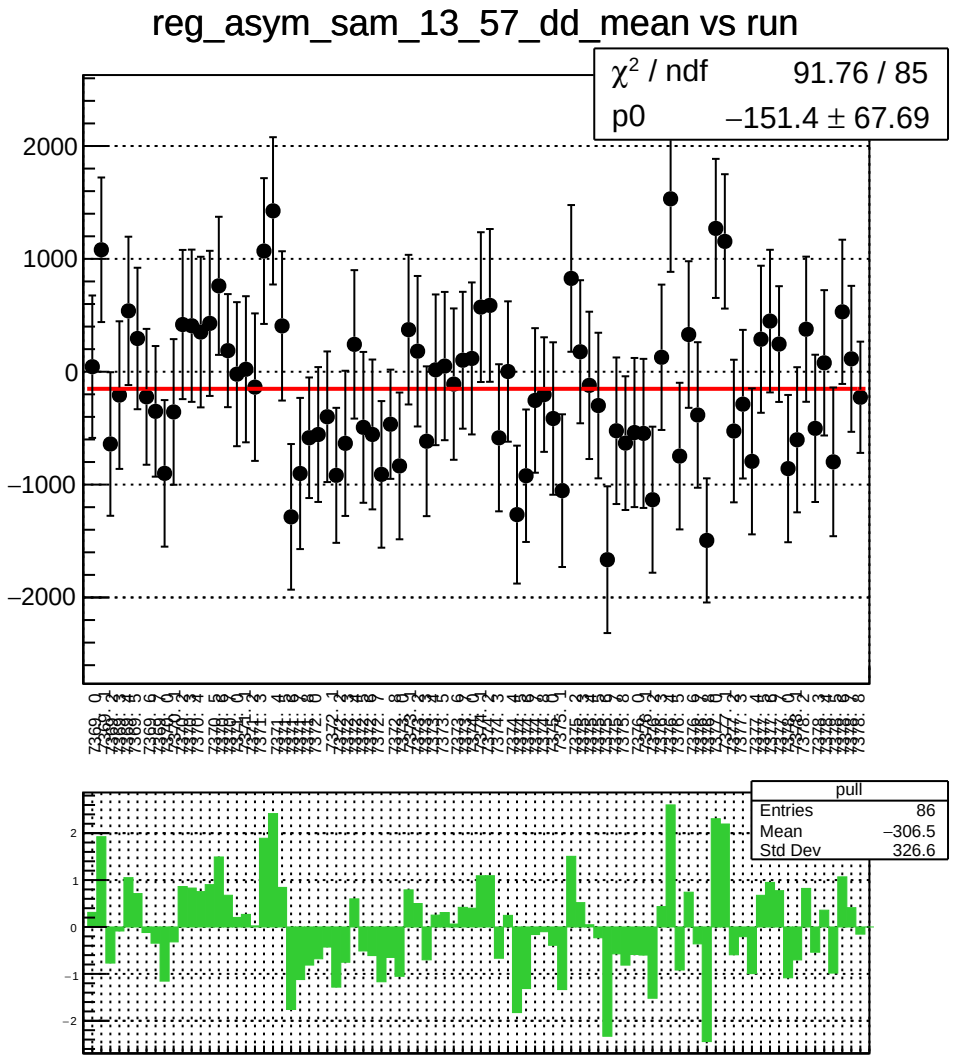

pull1D
Entries 86
Mean −0.003252
Std Dev 1.021

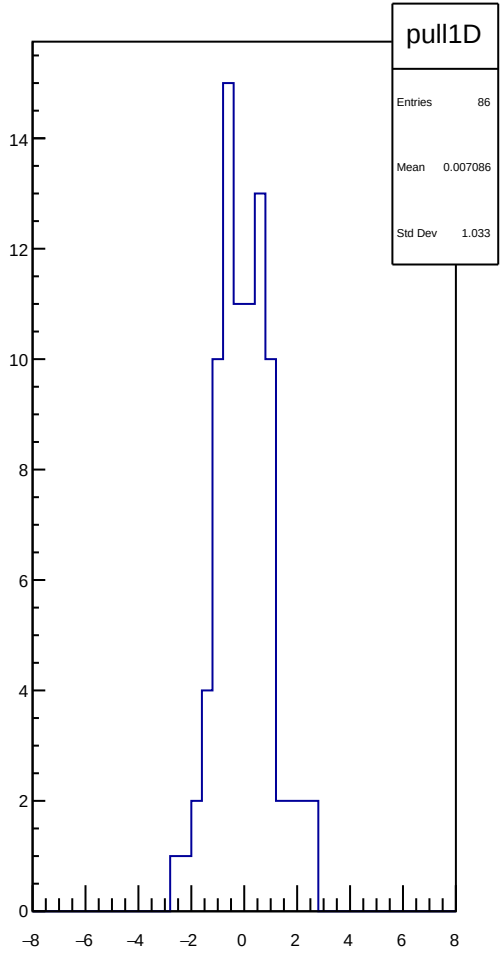

asym_sam_48_dd_correction_rms vs run
χ² / ndf 4971 / 85
p0 892.6 ± 0.7003
1050
1000
950
900
850
800
750

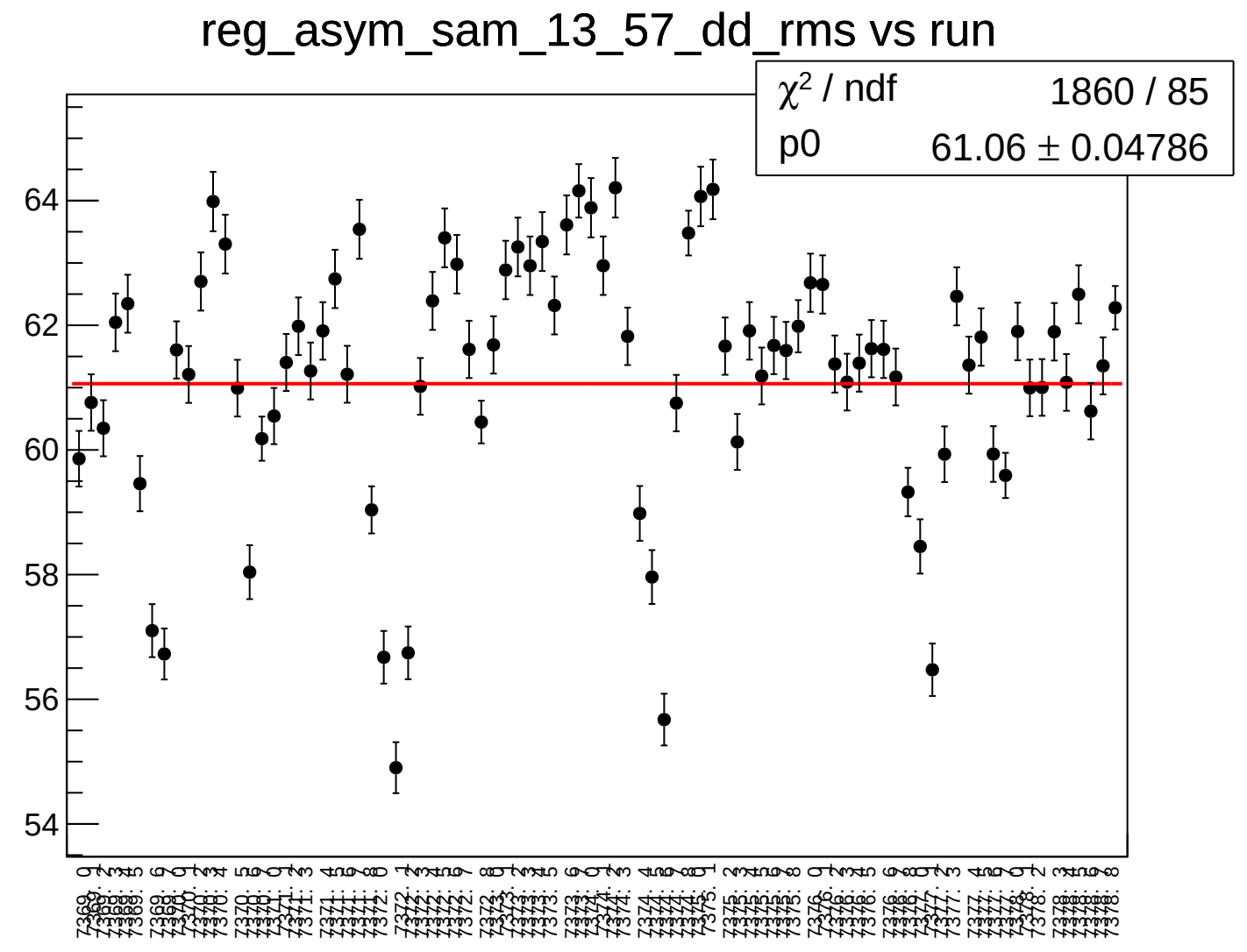

asym_sam_48_dd_mean vs run
χ^2 / ndf 86 / 85
p0 487.8 ± 1005
pull
Entries 86
Mean −282.6
Std Dev 289.1

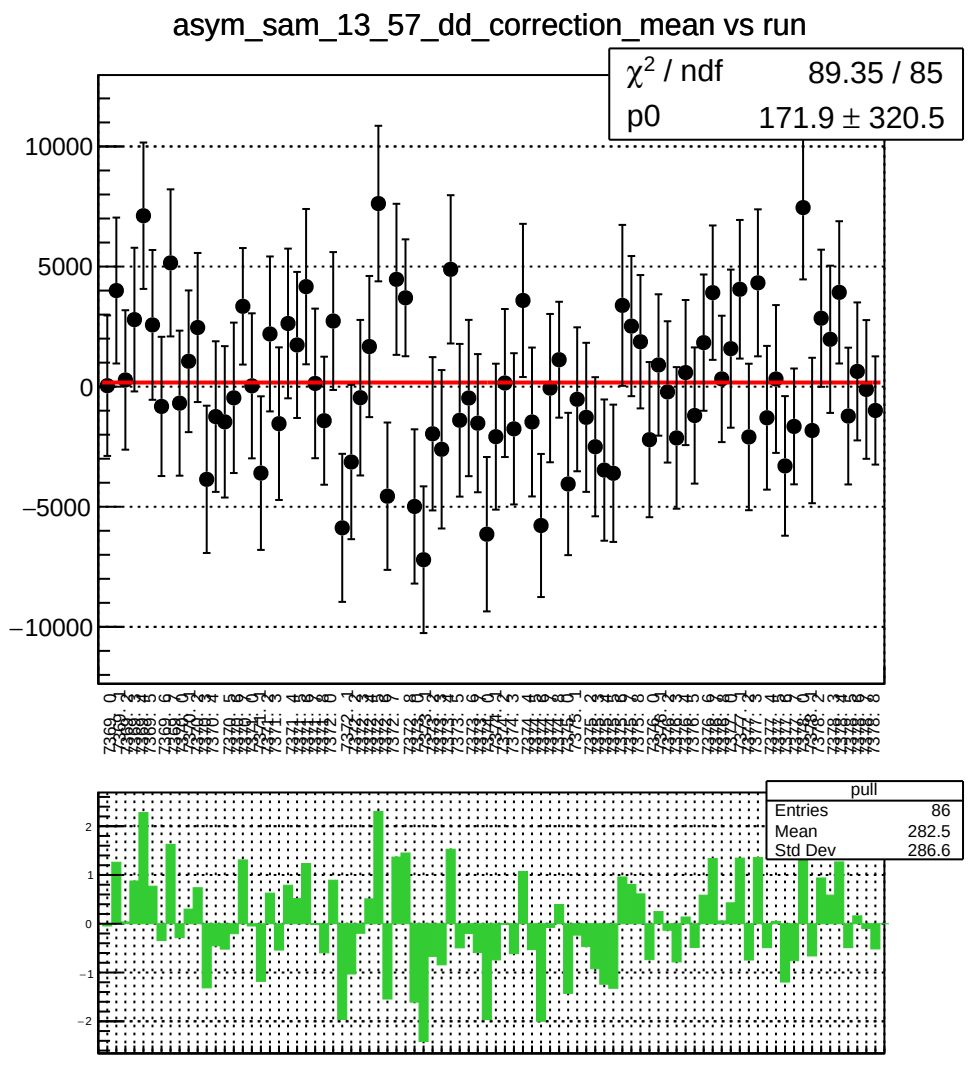

pull1D
Entries 86
Mean 0.002517
Std Dev 1

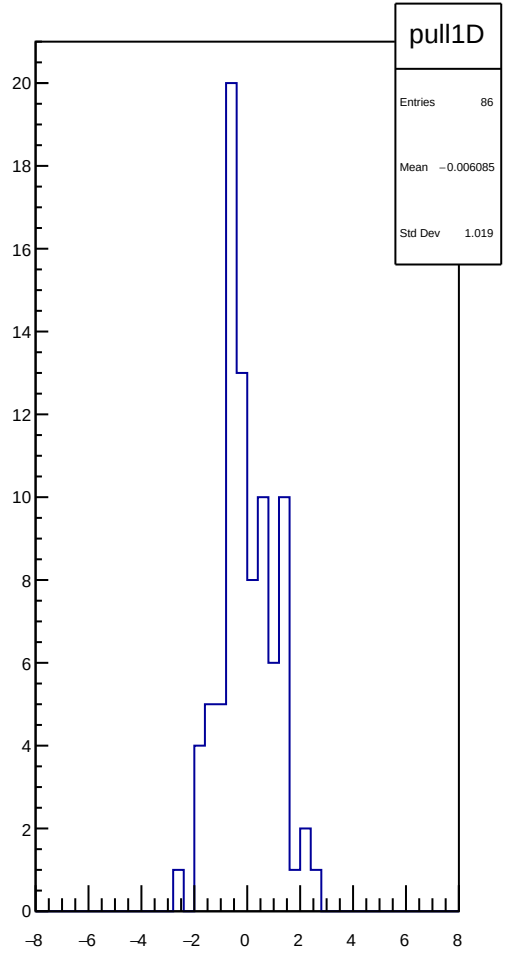

asym_sam_48_dd_rms vs run
χ² / ndf 5059 / 85
p0 905.5 ± 0.7105
1100
1050
1000
950
900
850
800

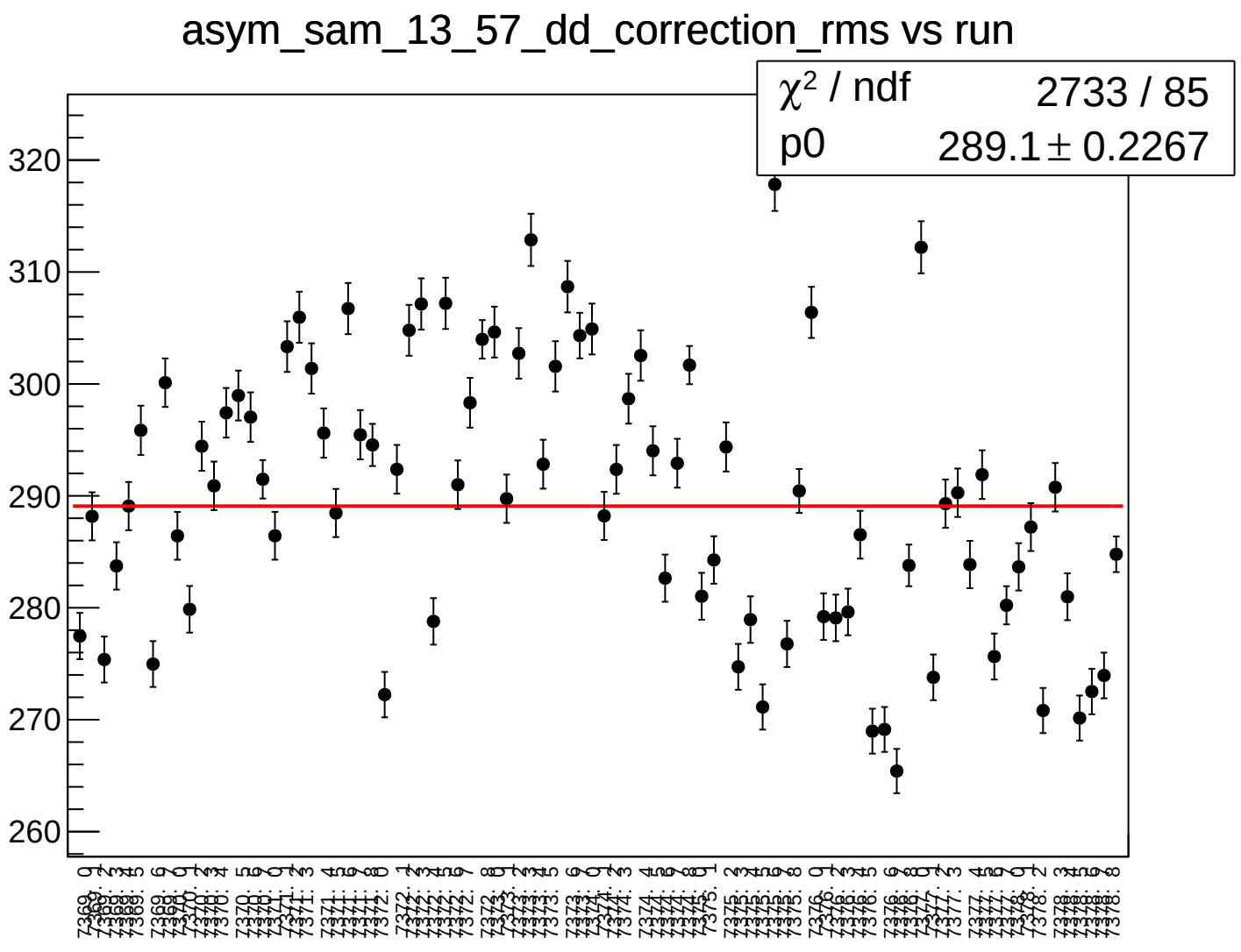

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 91.76 / 85
p0 −151.4 ± 67.69
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −306.5
Std Dev 326.6
2
1
0
−1
−2

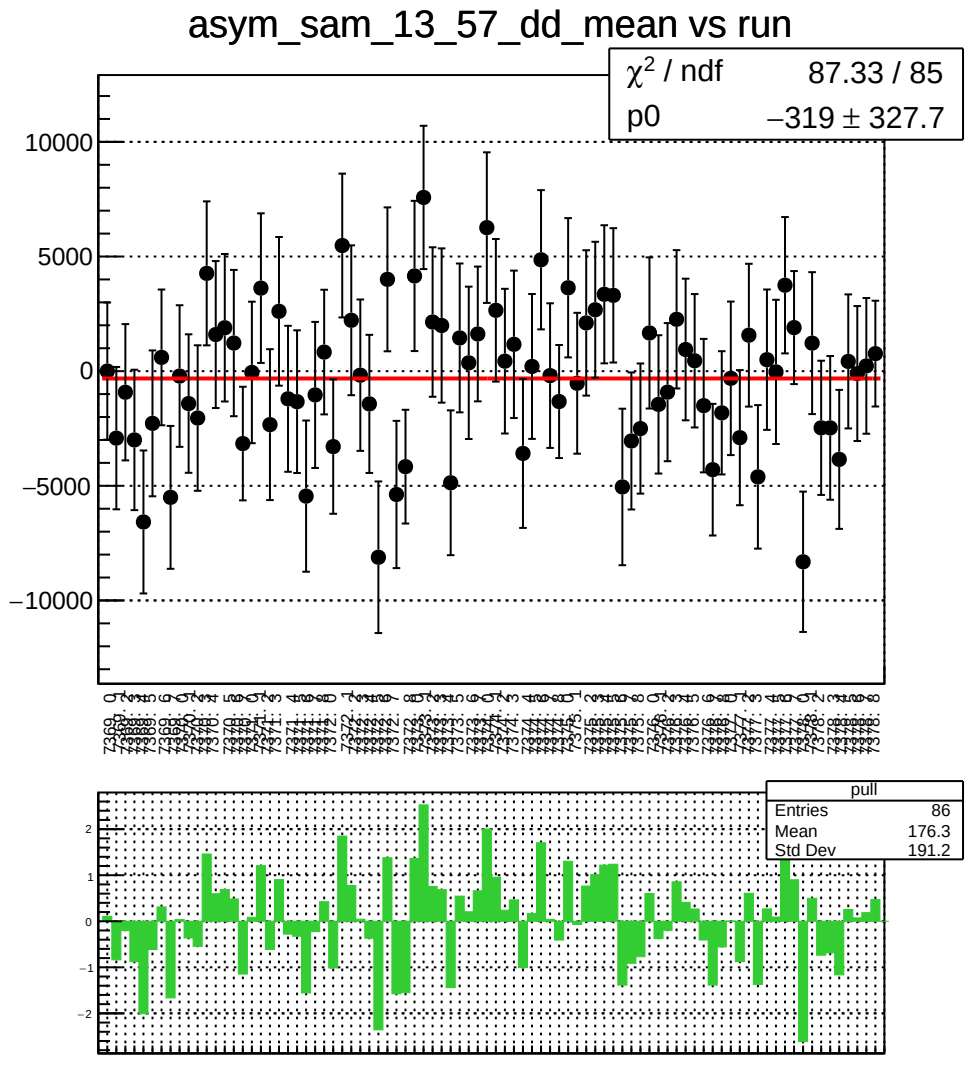

pull1D
Entries 86
Mean 0.007086
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

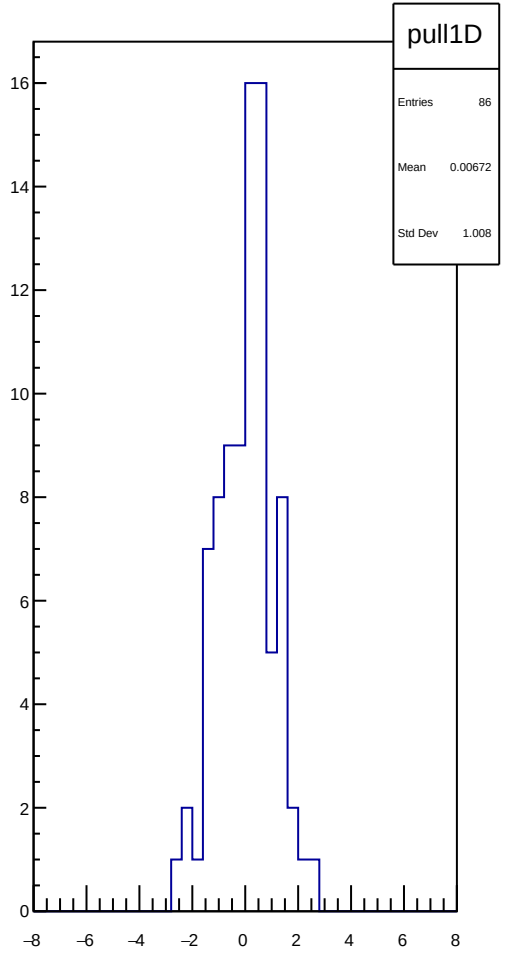

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1860 / 85
p0 61.06 ± 0.04786
64
62
60
58
56
54

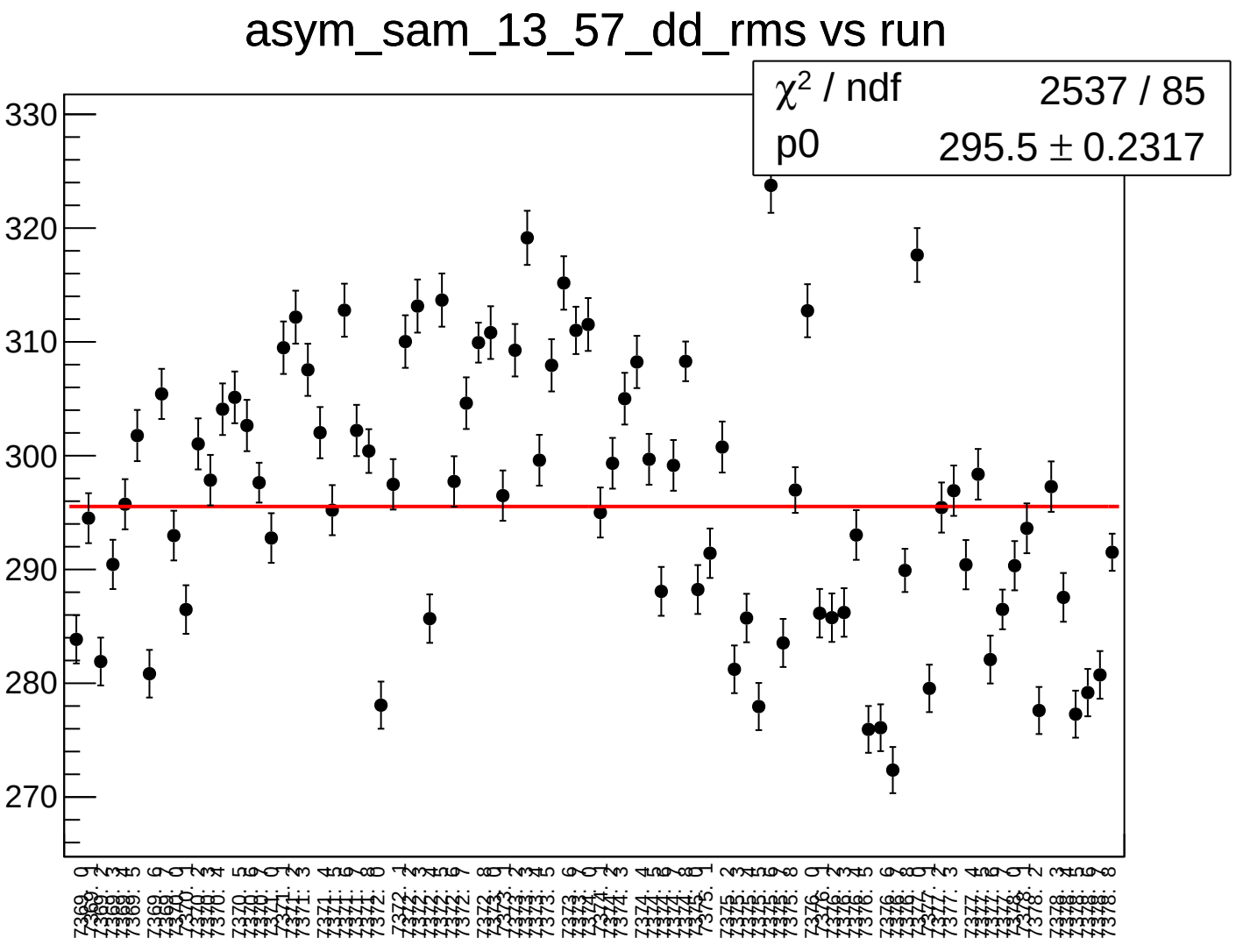

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 89.35 / 85
p0 171.9 ± 320.5
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 282.5
Std Dev 286.6
2
1
0
−1
−2

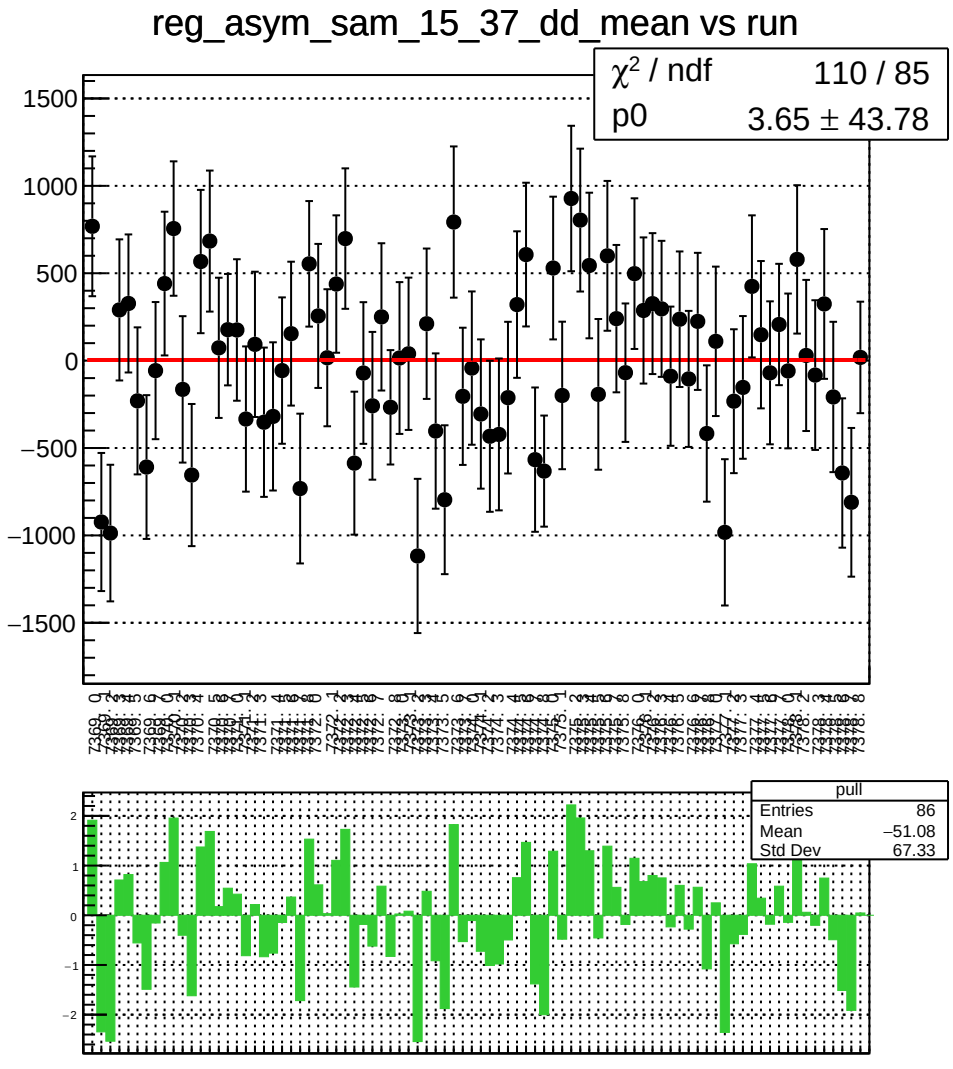

pull1D
Entries 86
Mean −0.006085
Std Dev 1.019
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

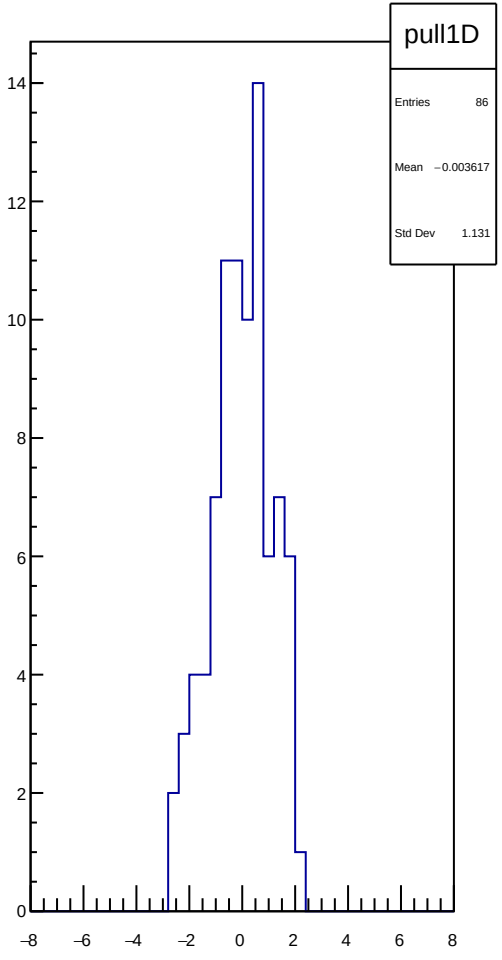

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 2733 / 85
p0 289.1 ± 0.2267
320
310
300
290
280
270
260

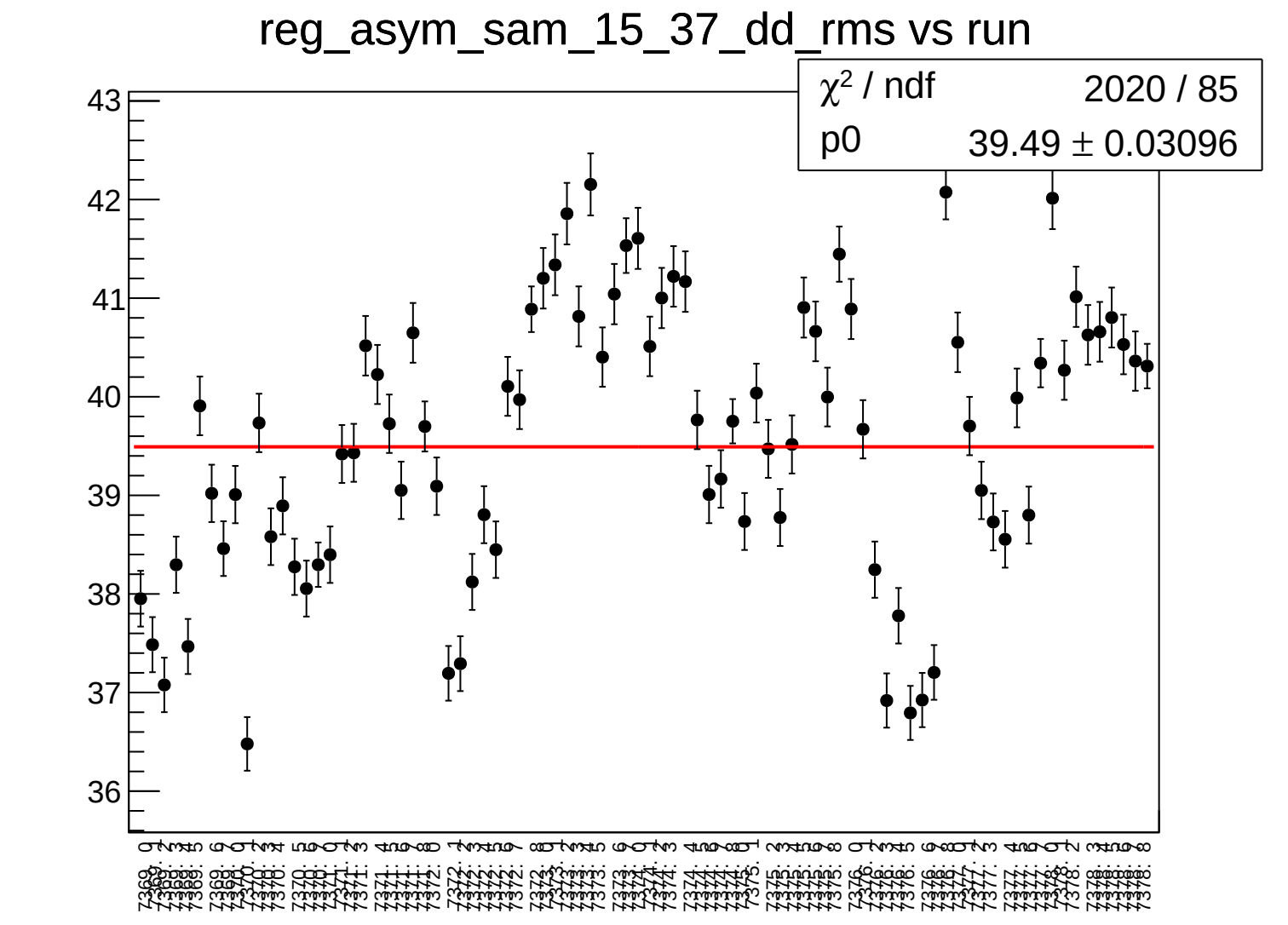

asym_sam_13_57_dd_mean vs run
χ² / ndf 87.33 / 85
p0 −319 ± 327.7
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 176.3
Std Dev 191.2
2
1
0
−1
−2

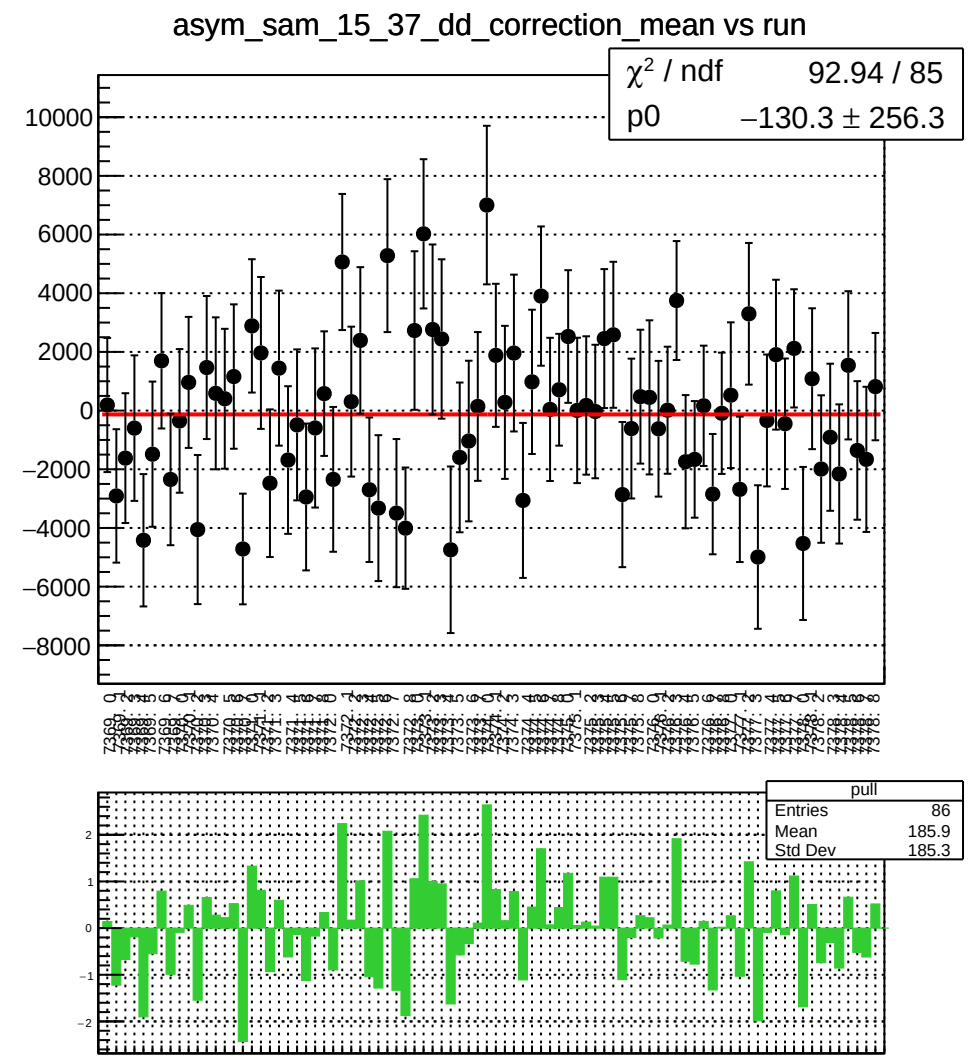

pull1D
Entries 86
Mean 0.00672
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

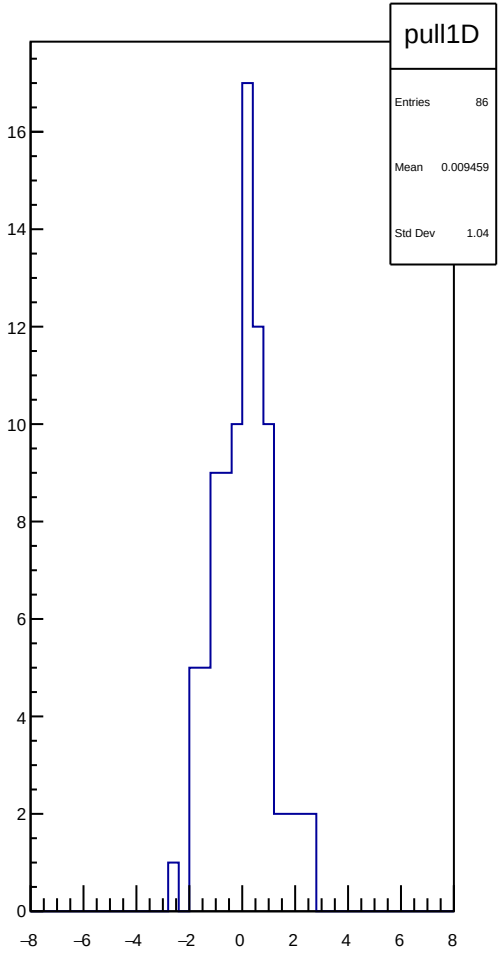

asym_sam_13_57_dd_rms vs run
χ² / ndf 2537 / 85
p0 295.5 ± 0.2317
330
320
310
300
290
280
270

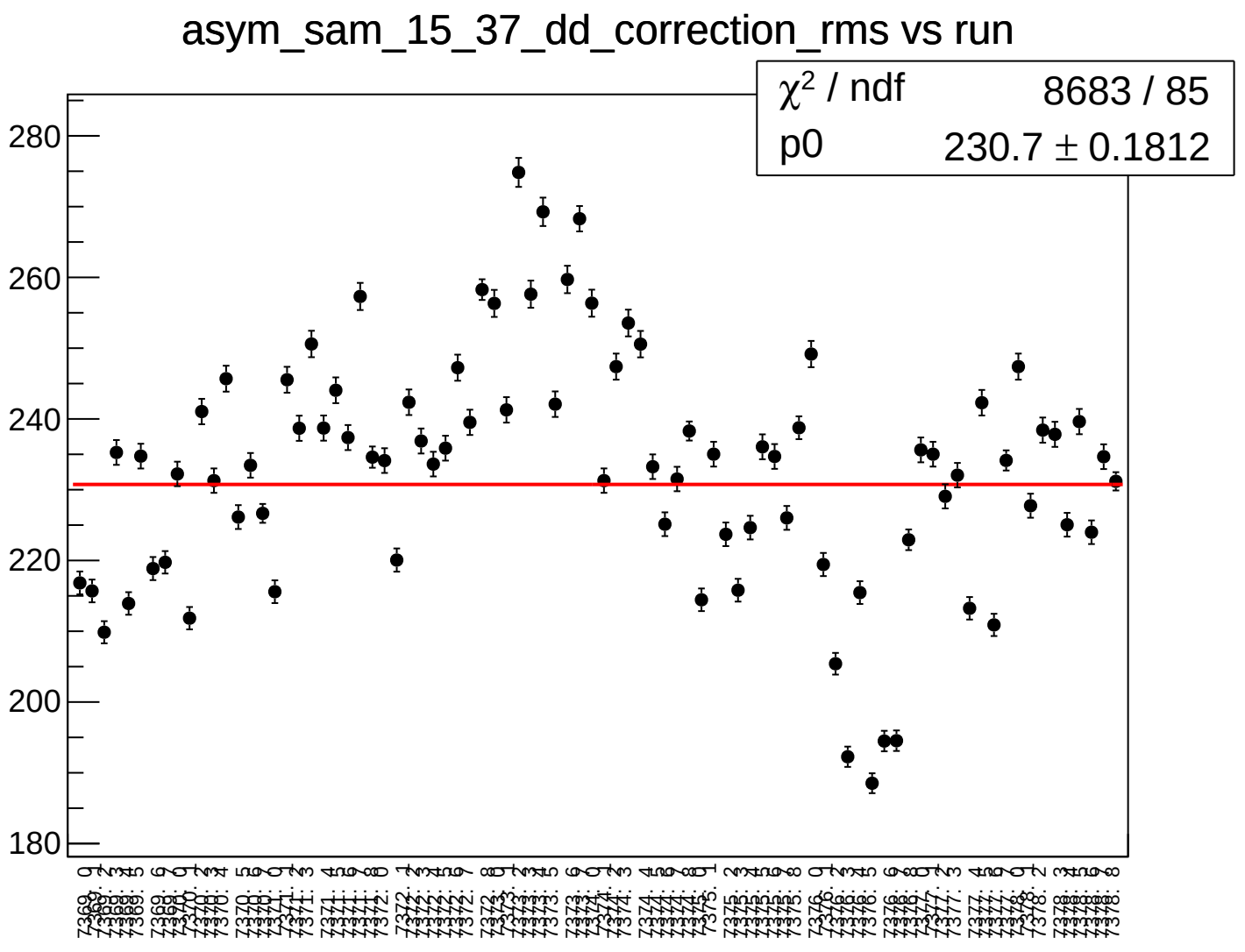

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 110 / 85
p0 3.65 ± 43.78
pull
Entries 86
Mean −51.08
Std Dev 67.33

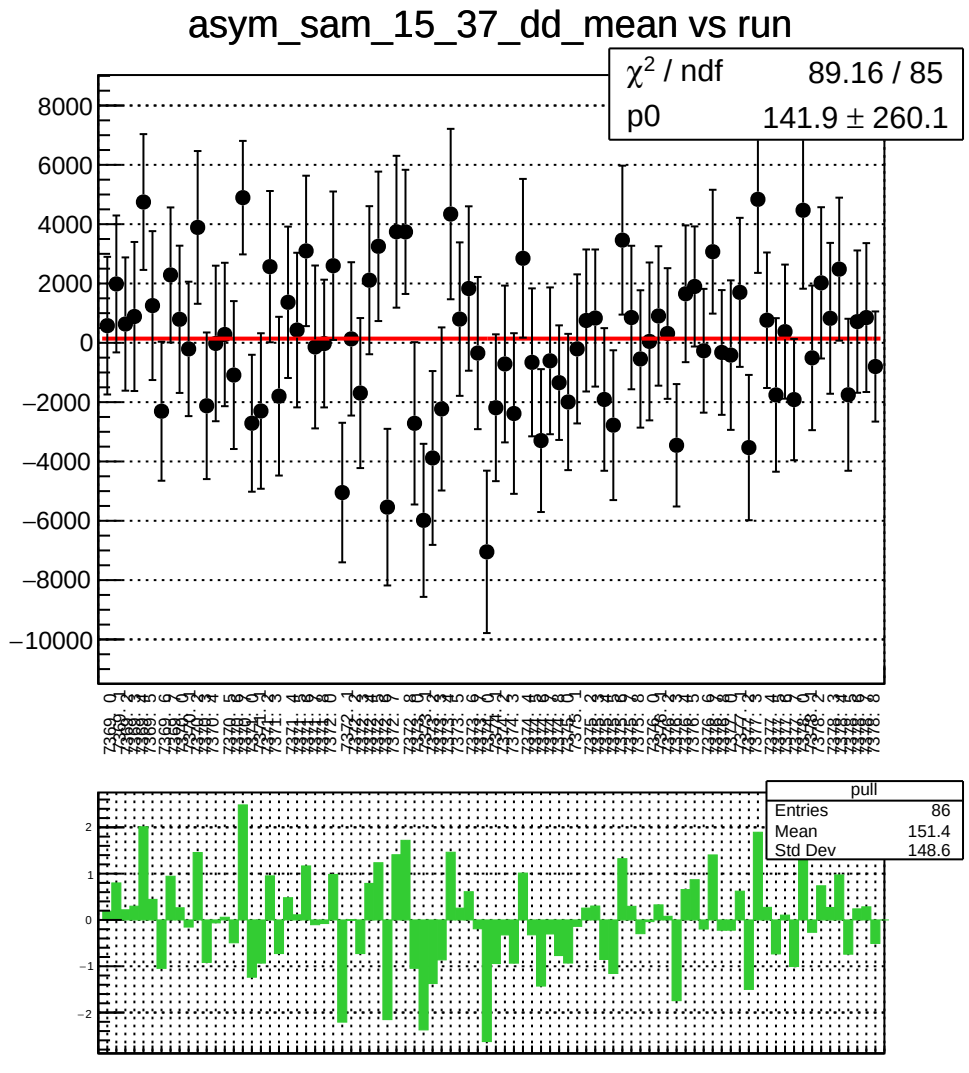

pull1D
Entries 86
Mean −0.003617
Std Dev 1.131

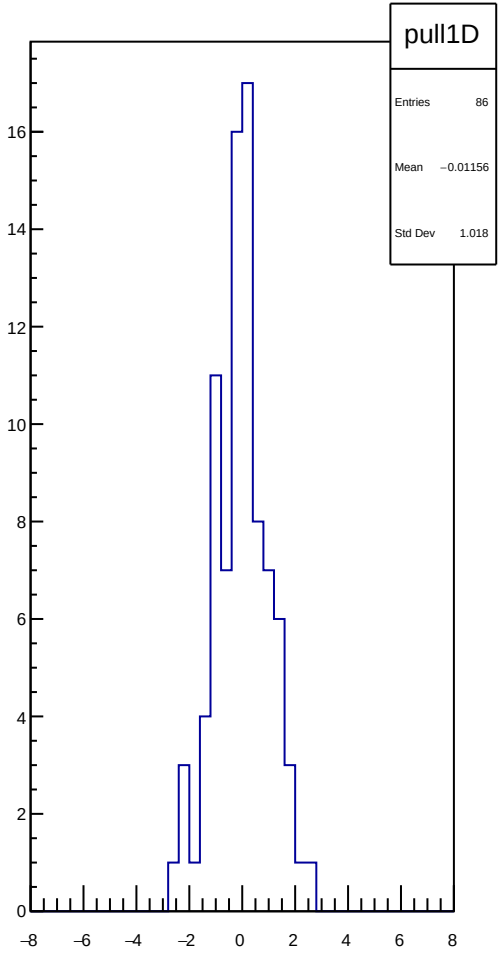

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2020 / 85
p0 39.49 ± 0.03096
43
42
41
40
39
38
37
36

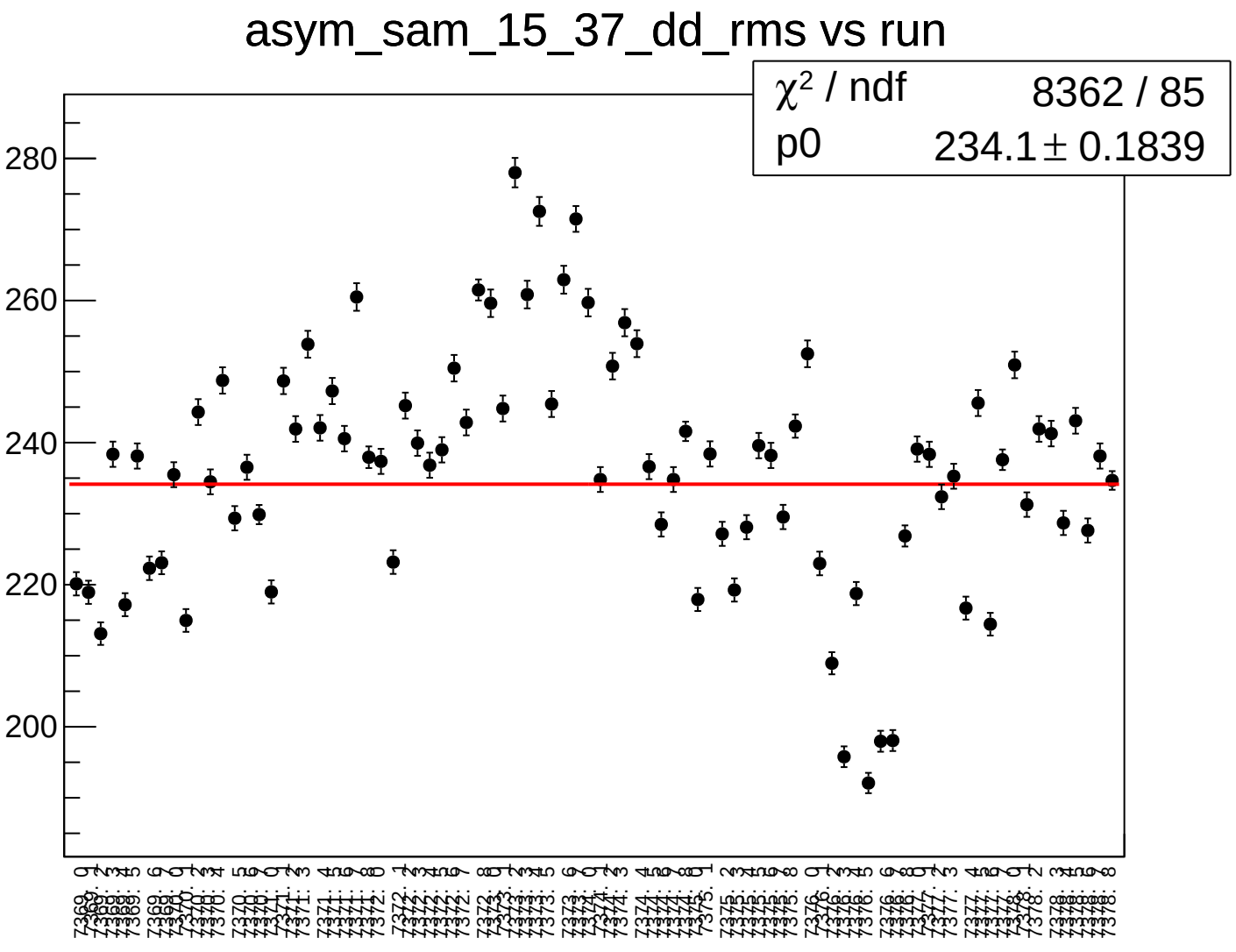

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 92.94 / 85
p0 −130.3 ± 256.3
pull
Entries 86
Mean 185.9
Std Dev 185.3

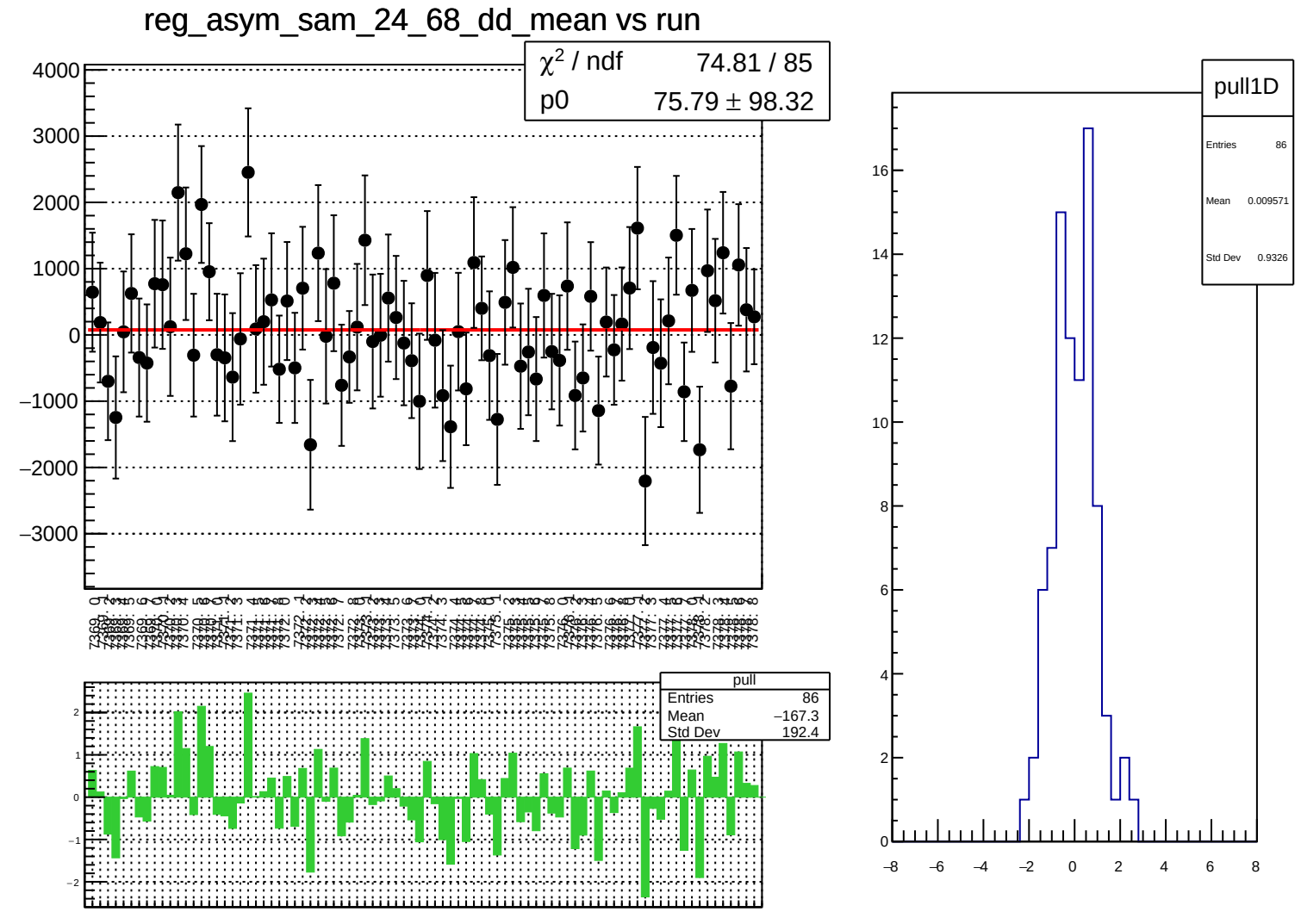

pull1D
Entries 86
Mean 0.009459
Std Dev 1.04

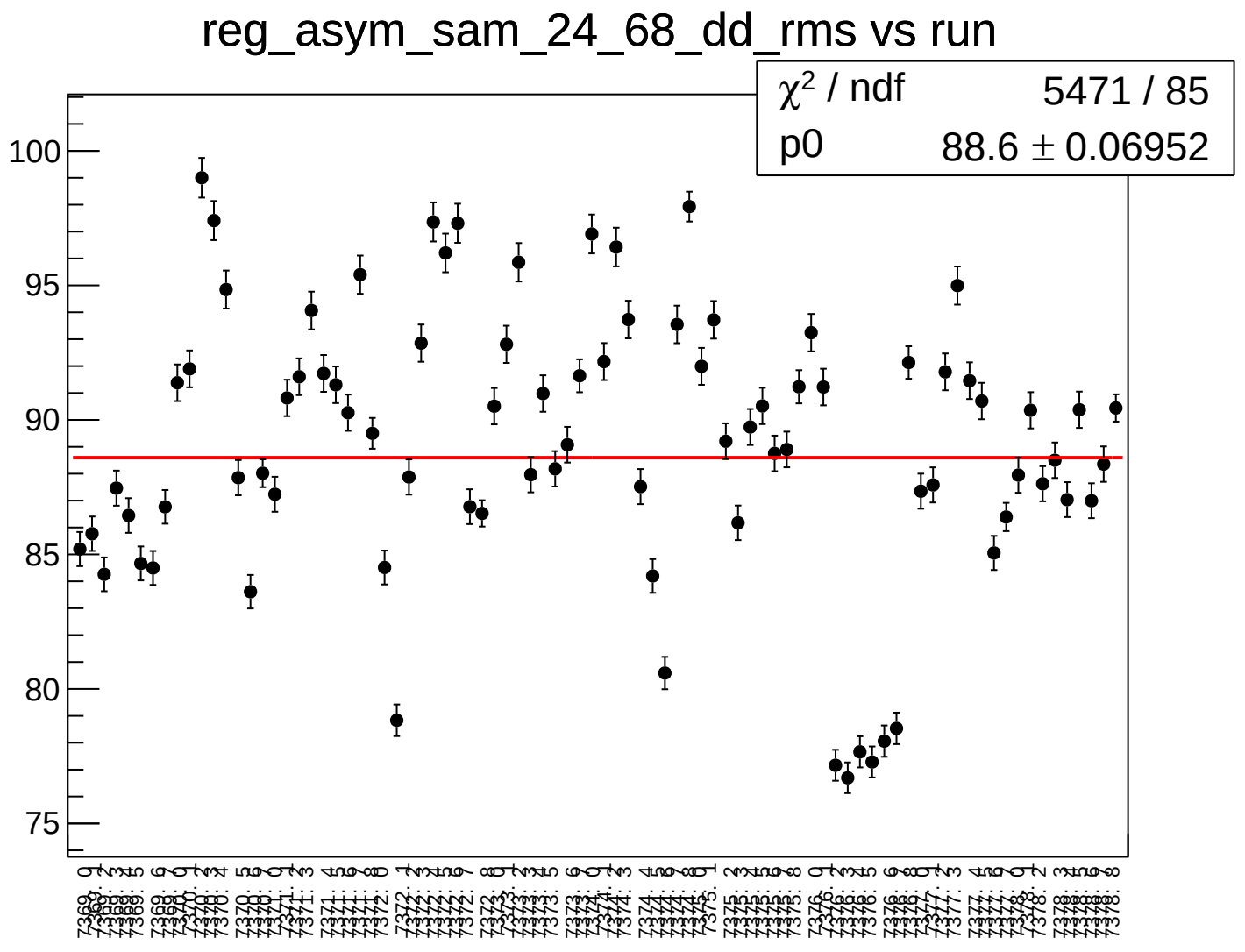

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 8683 / 85
p0 230.7 ± 0.1812
280
260
240
220
200
180

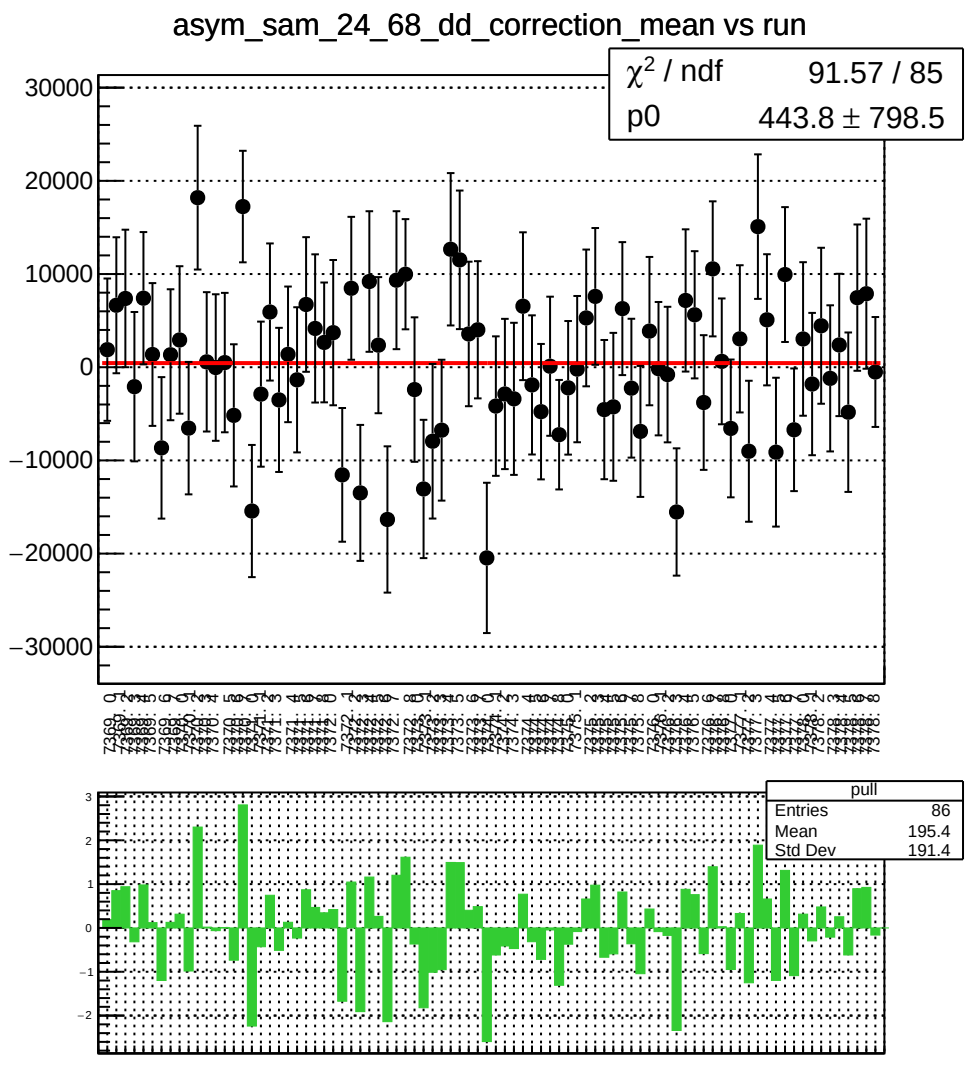

asym_sam_15_37_dd_mean vs run
χ² / ndf 89.16 / 85
p0 141.9 ± 260.1
pull
Entries 86
Mean 151.4
Std Dev 148.6

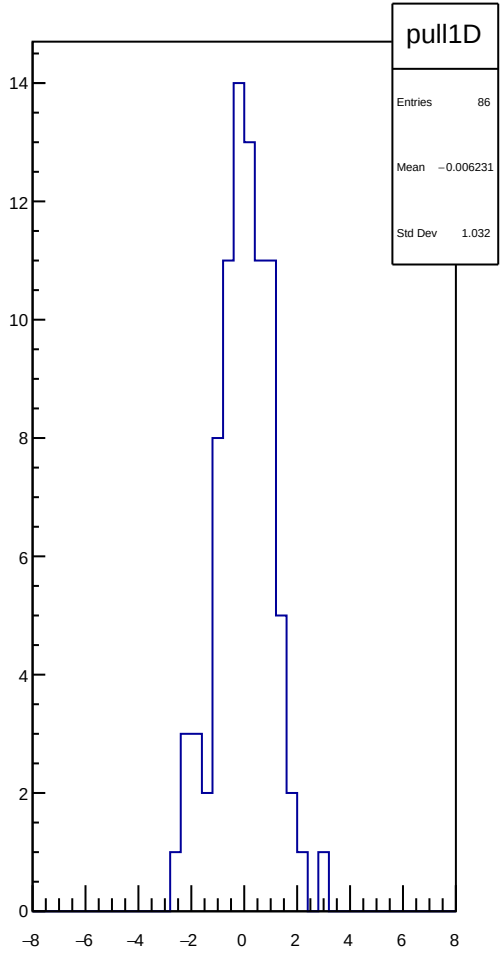

pull1D
Entries 86
Mean −0.01156
Std Dev 1.018

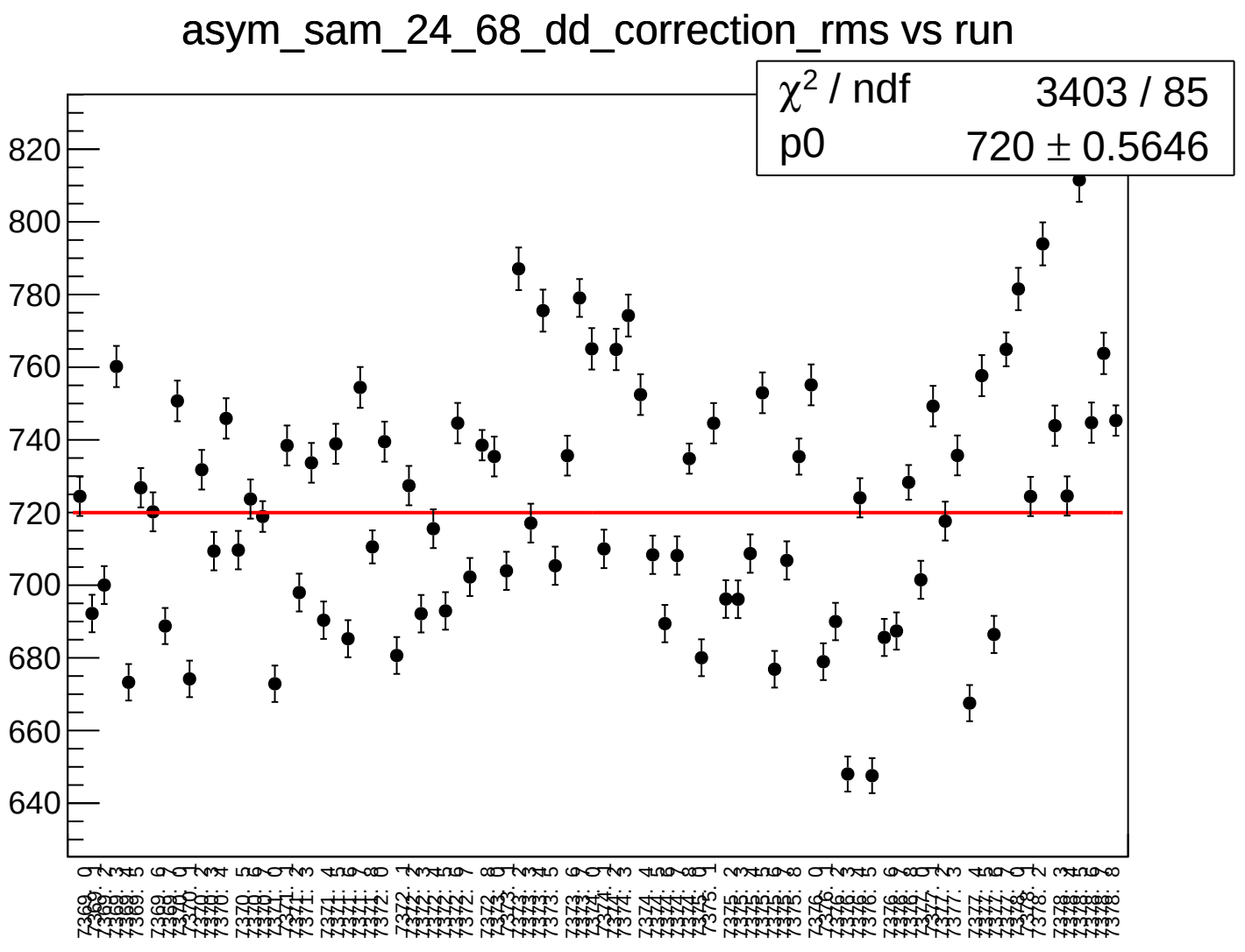

asym_sam_15_37_dd_rms vs run
χ² / ndf 8362 / 85
p0 234.1 ± 0.1839
280
260
240
220
200

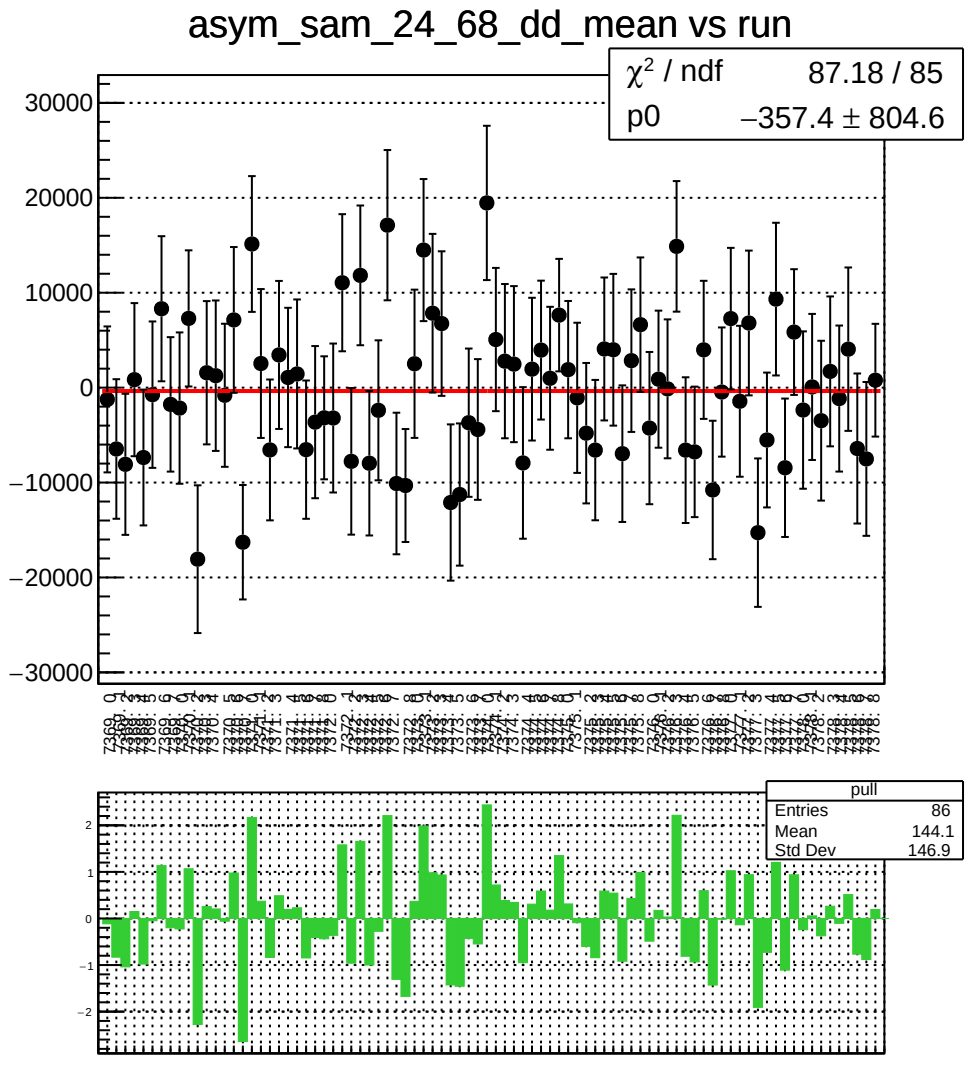

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 74.81 / 85
p0 75.79 ± 98.32
pull
Entries 86
Mean −167.3
Std Dev 192.4
pull1D
Entries 86
Mean 0.009571
Std Dev 0.9326

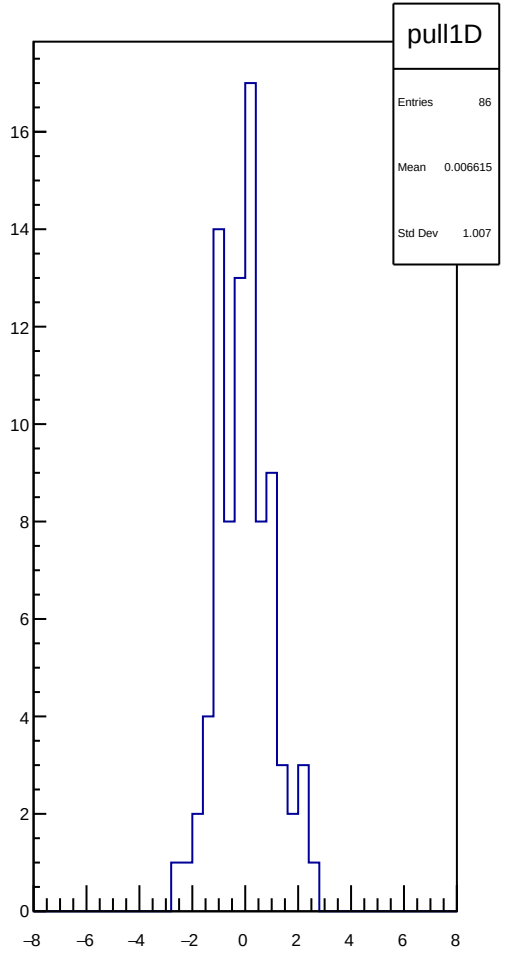

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 5471 / 85
p0 88.6 ± 0.06952
100
95
90
85
80
75

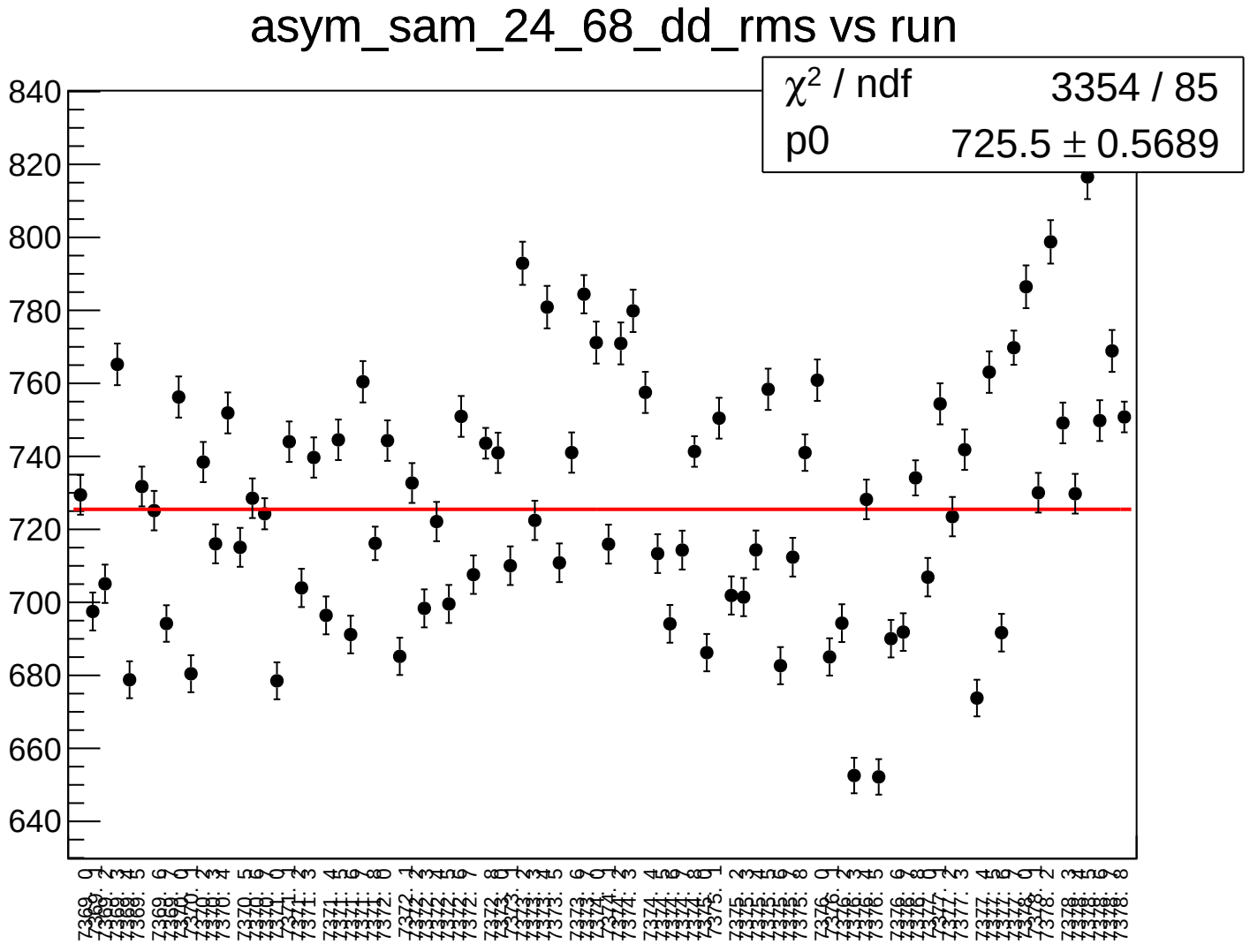

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 91.57 / 85
p0 443.8 ± 798.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 195.4
Std Dev 191.4
3
2
1
0
−1
−2

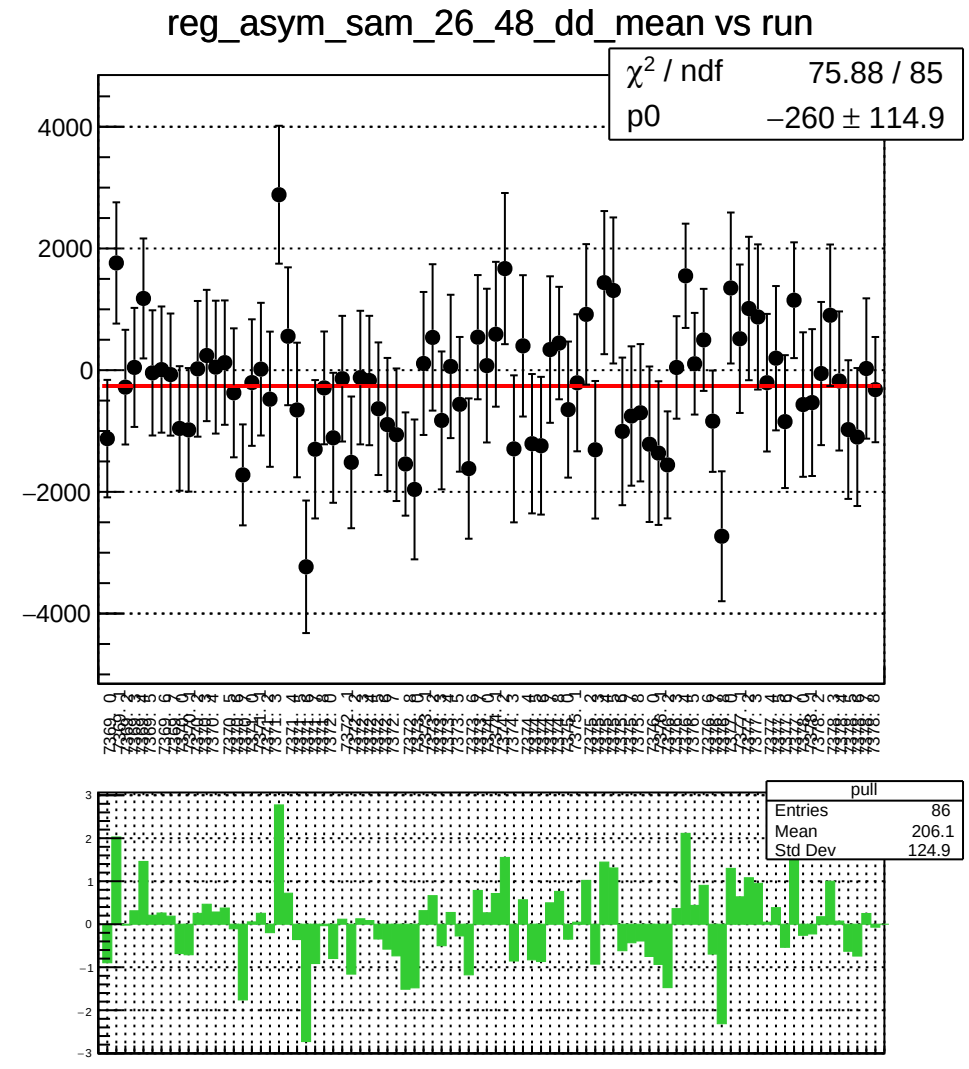

pull1D
Entries 86
Mean −0.006231
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

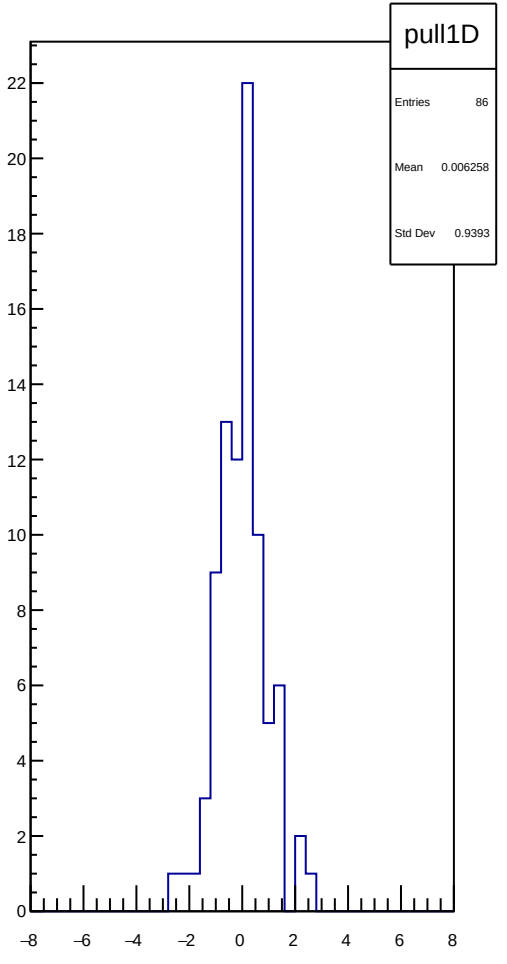

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 3403 / 85
p0 720 ± 0.5646
820
800
780
760
740
720
700
680
660
640

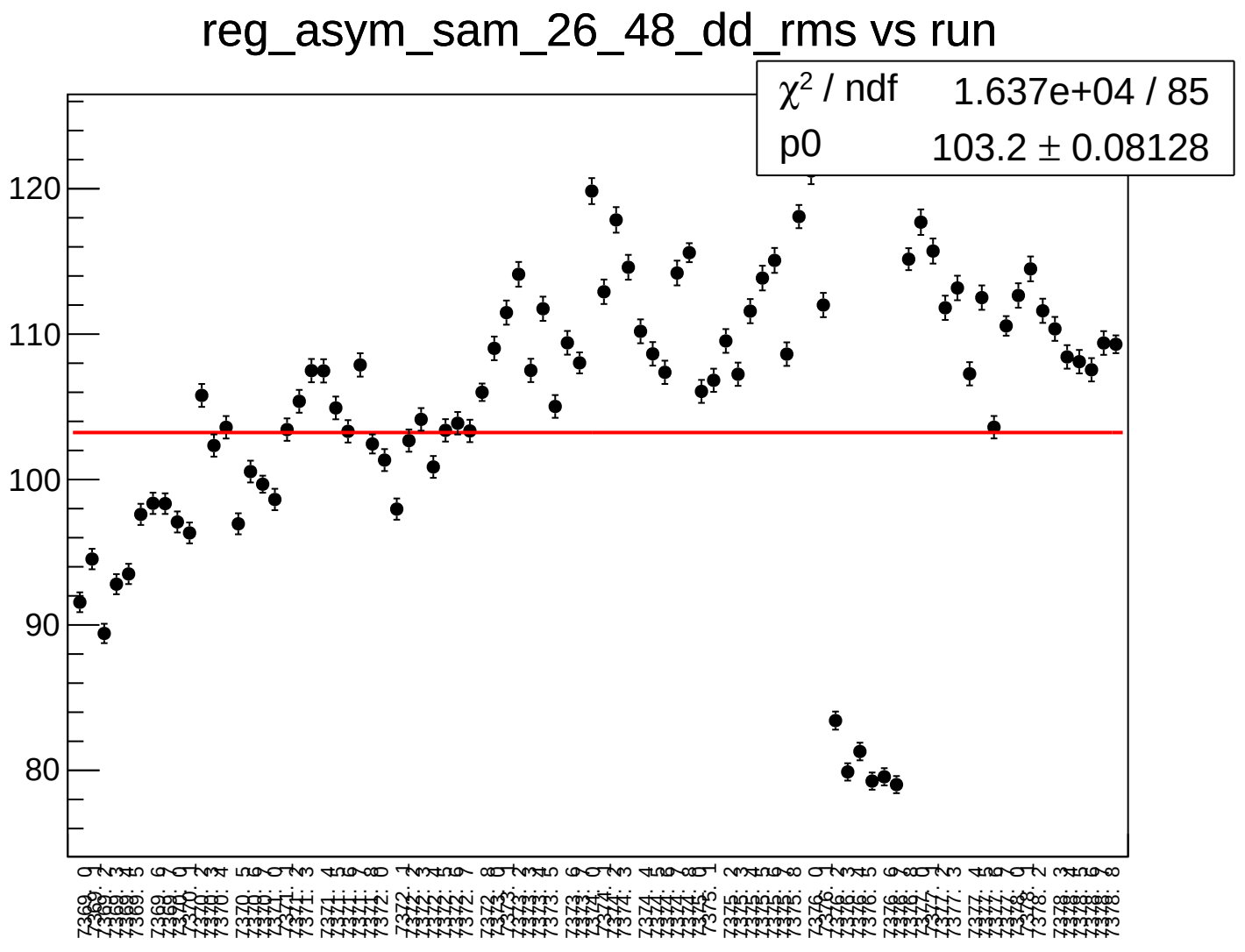

asym_sam_24_68_dd_mean vs run
χ² / ndf 87.18 / 85
p0 −357.4 ± 804.6
pull
Entries 86
Mean 144.1
Std Dev 146.9

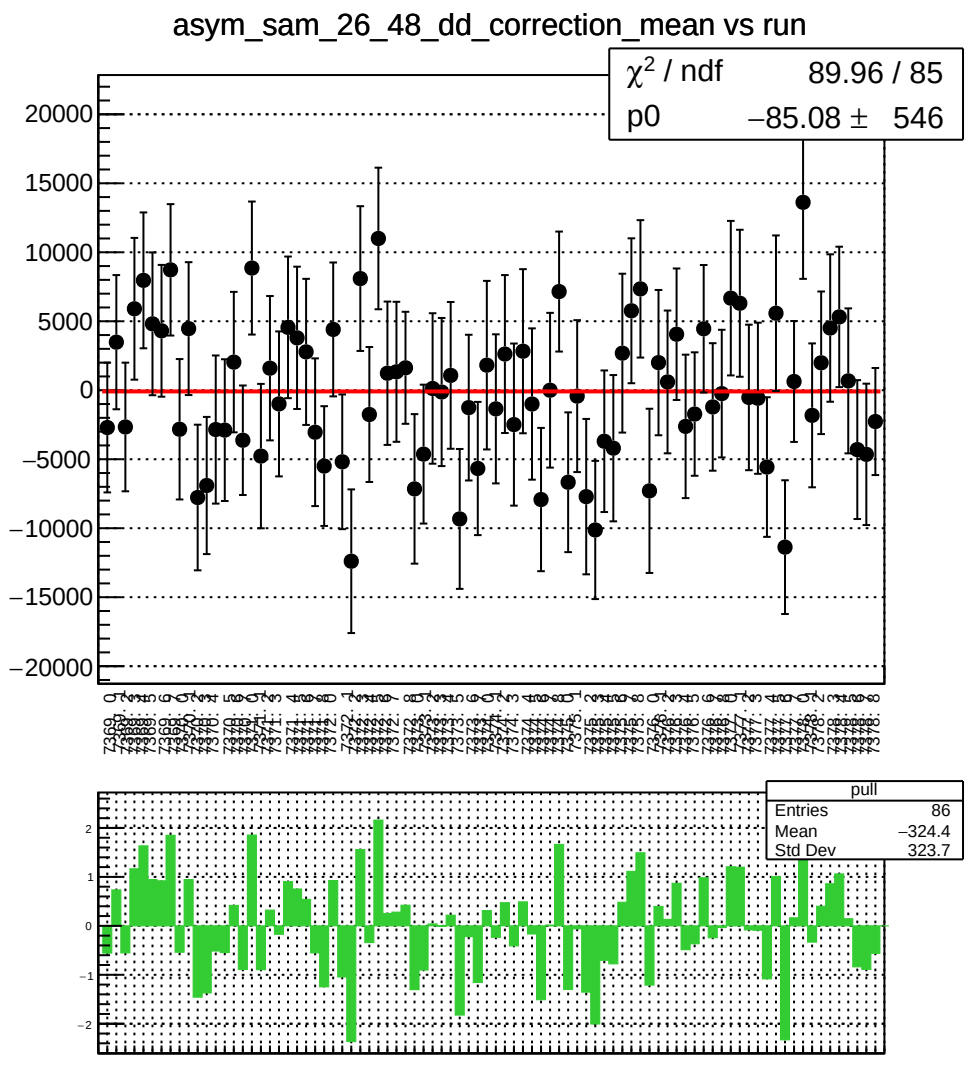

pull1D
Entries 86
Mean 0.006615
Std Dev 1.007

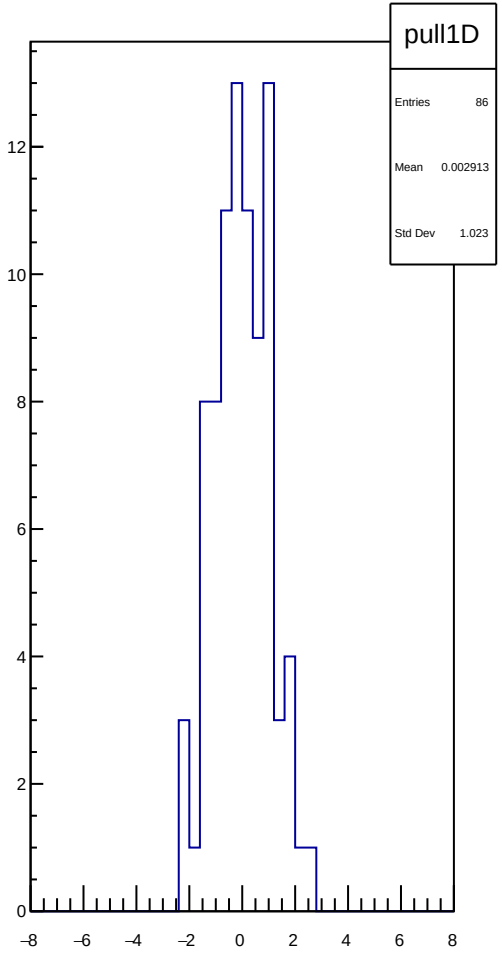

asym_sam_24_68_dd_rms vs run
χ² / ndf 3354 / 85
p0 725.5 ± 0.5689
840
820
800
780
760
740
720
700
680
660
640

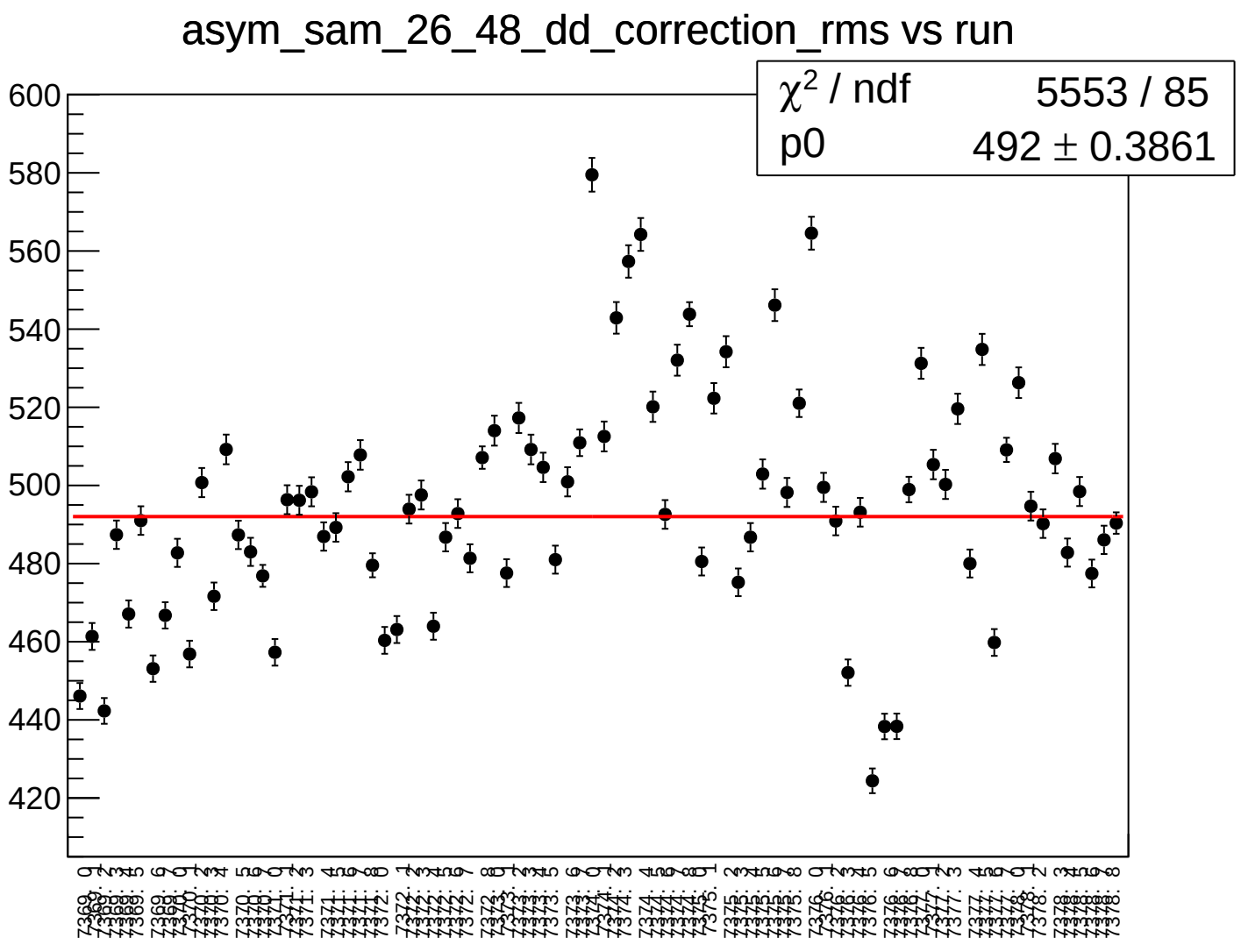

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 75.88 / 85
p0 −260 ± 114.9
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 206.1
Std Dev 124.9
3
2
1
0
−1
−2
−3

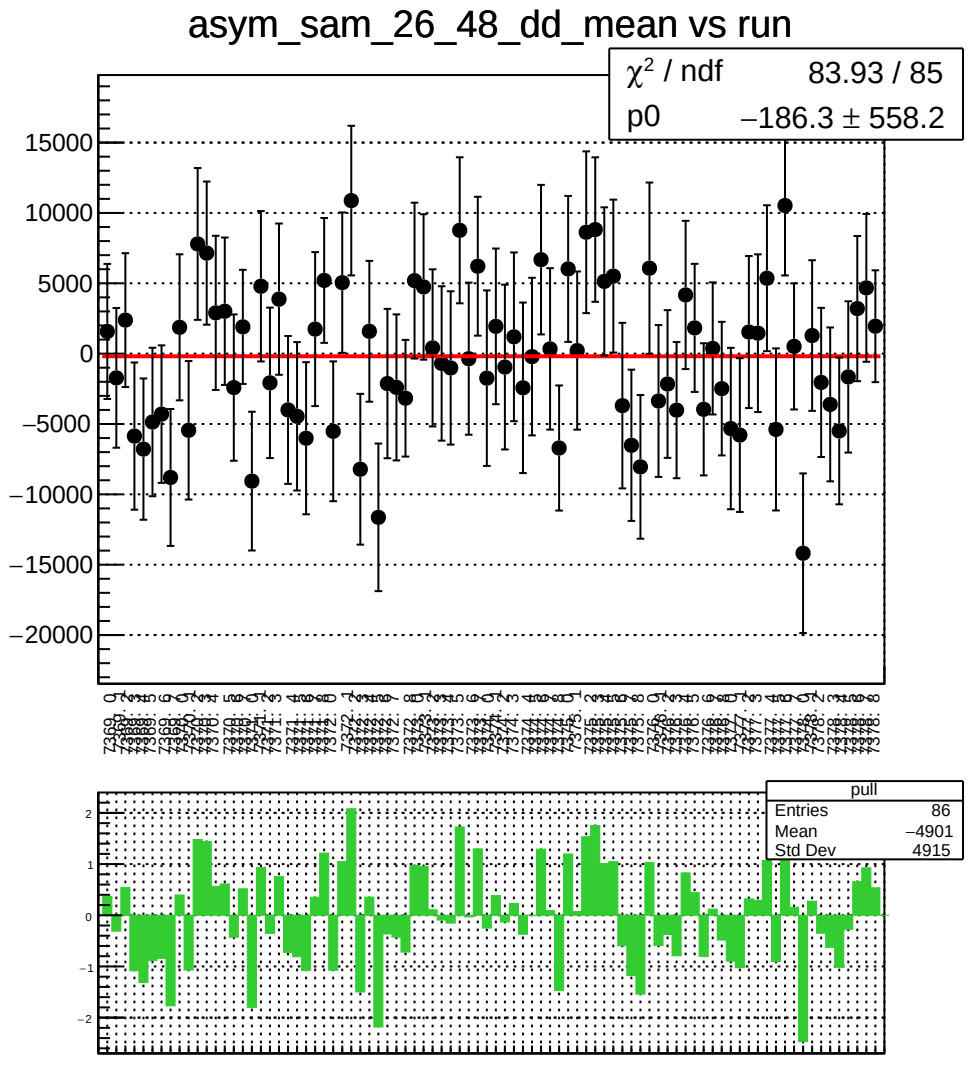

pull1D
Entries 86
Mean 0.006258
Std Dev 0.9393
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

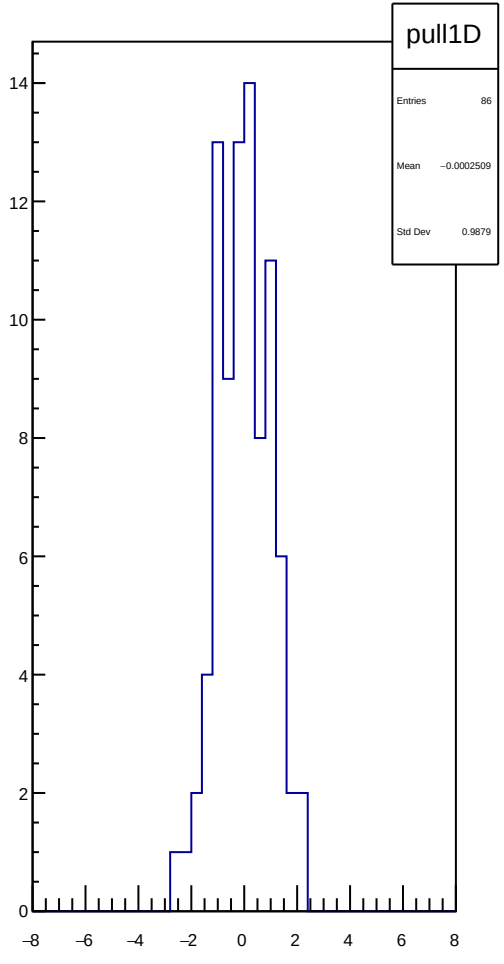

reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1.637e+04 / 85
p0 103.2 ± 0.08128
120
110
100
90
80

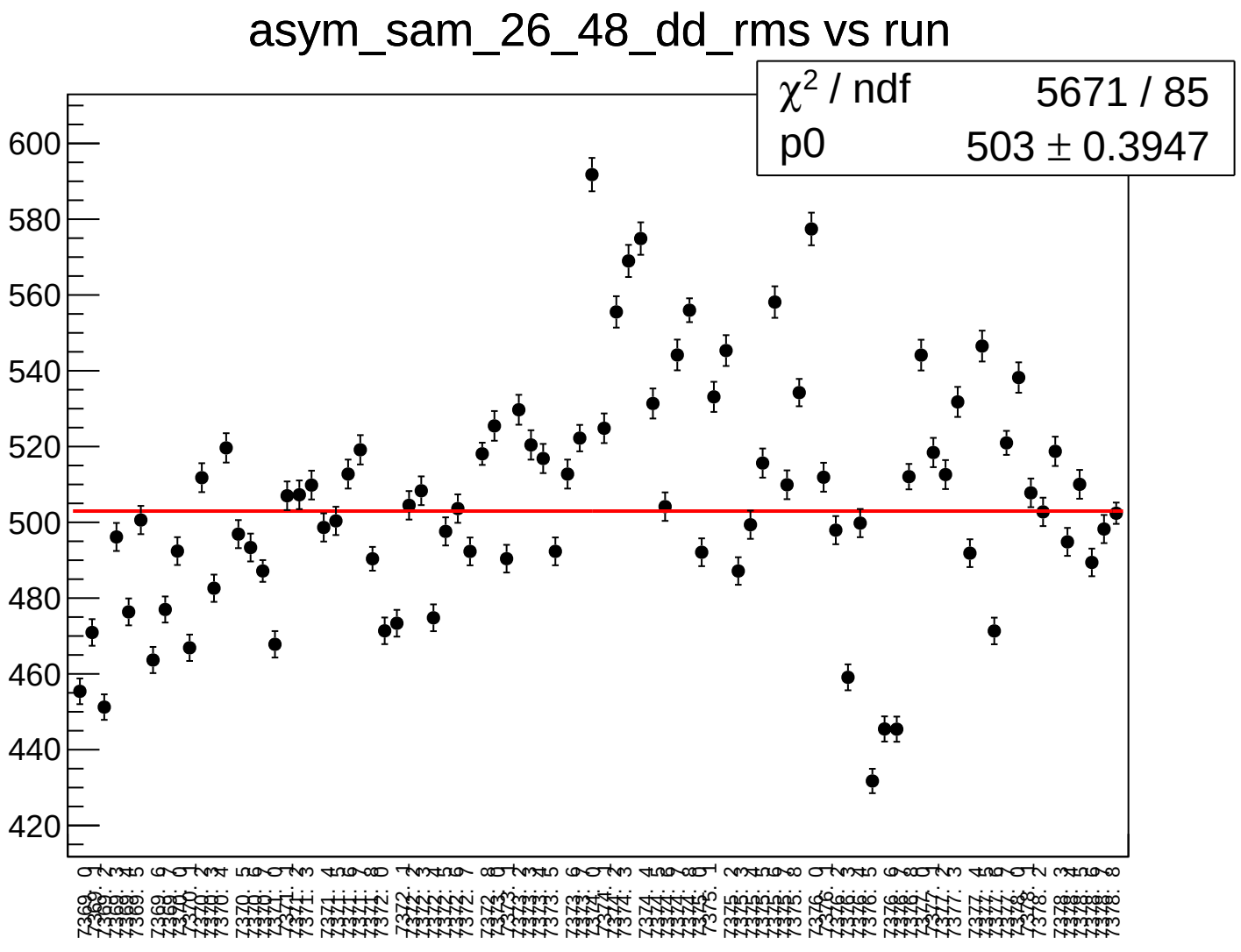

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 89.96 / 85
p0 −85.08 ± 546
pull
Entries 86
Mean −324.4
Std Dev 323.7

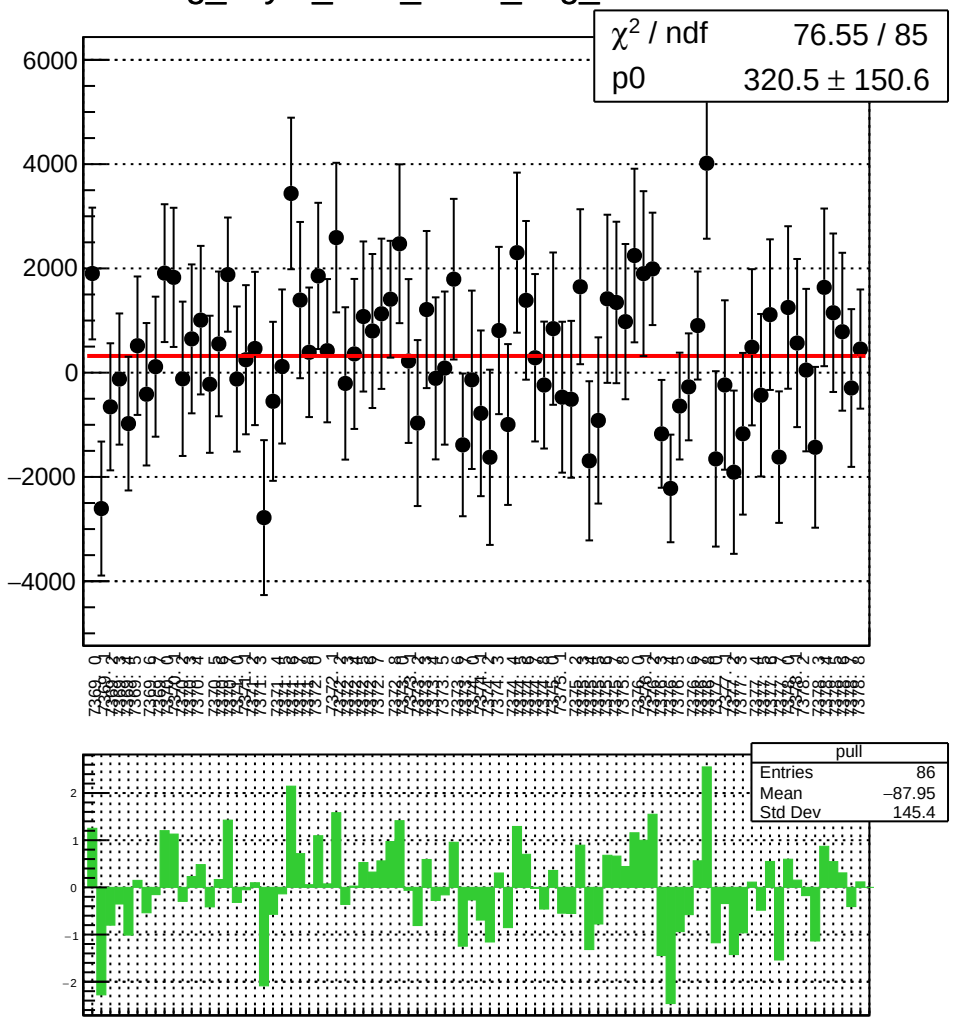

pull1D
Entries 86
Mean 0.002913
Std Dev 1.023

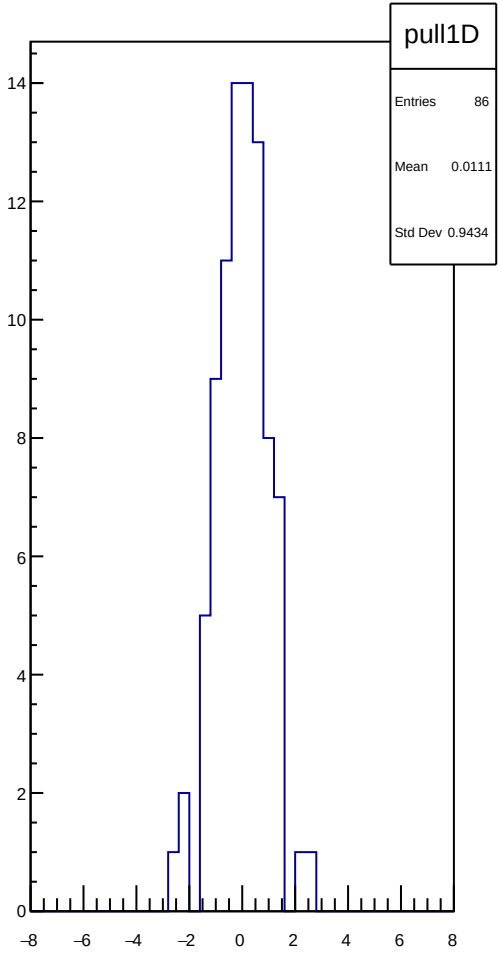

asym_sam_26_48_dd_correction_rms vs run
χ^2 / ndf 5553 / 85
p0 492 ± 0.3861
600
580
560
540
520
500
480
460
440
420

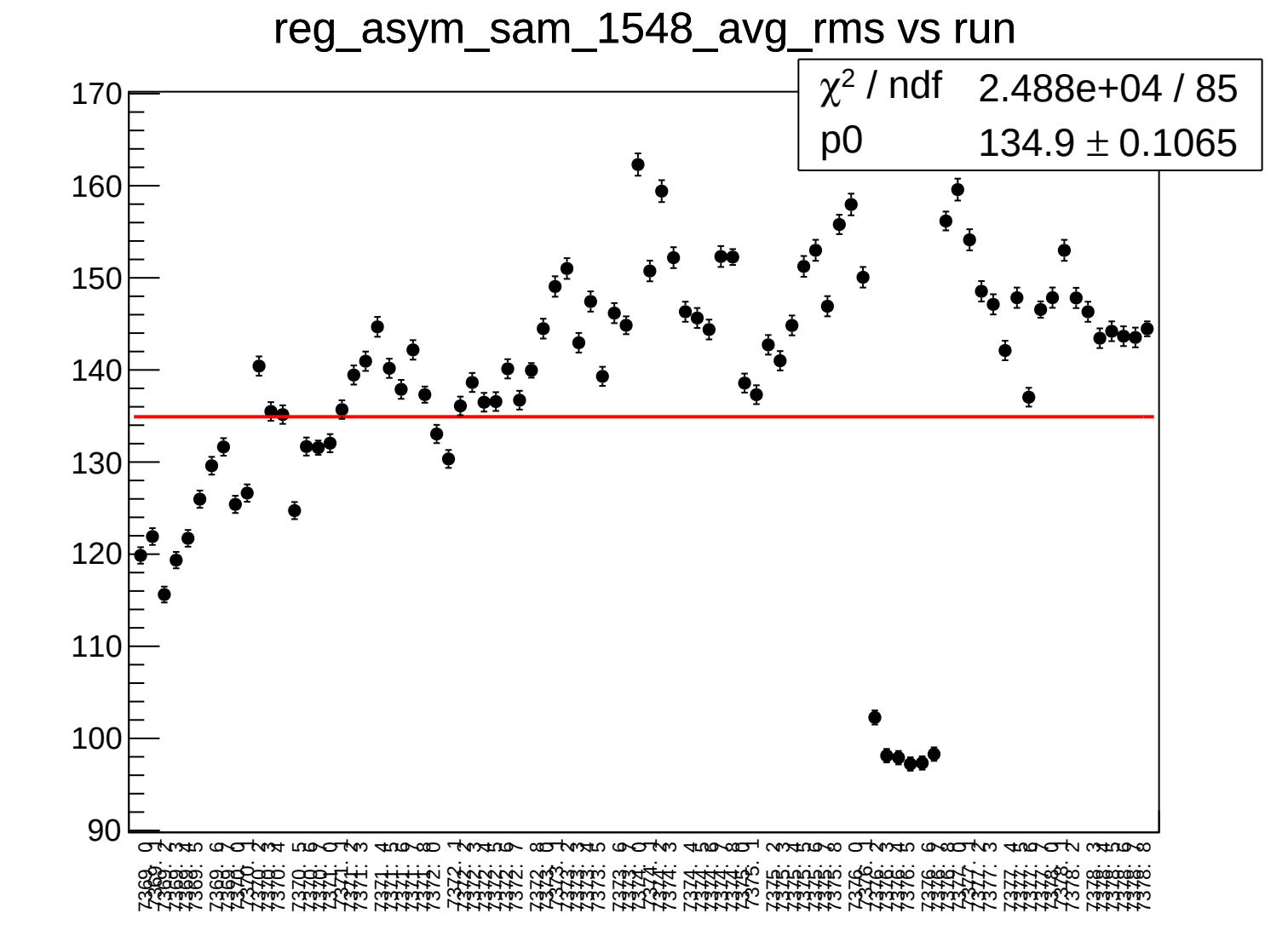

asym_sam_26_48_dd_mean vs run
χ² / ndf 83.93 / 85
p0 −186.3 ± 558.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 86
Mean −4901
Std Dev 4915
2
1
0
−1
−2

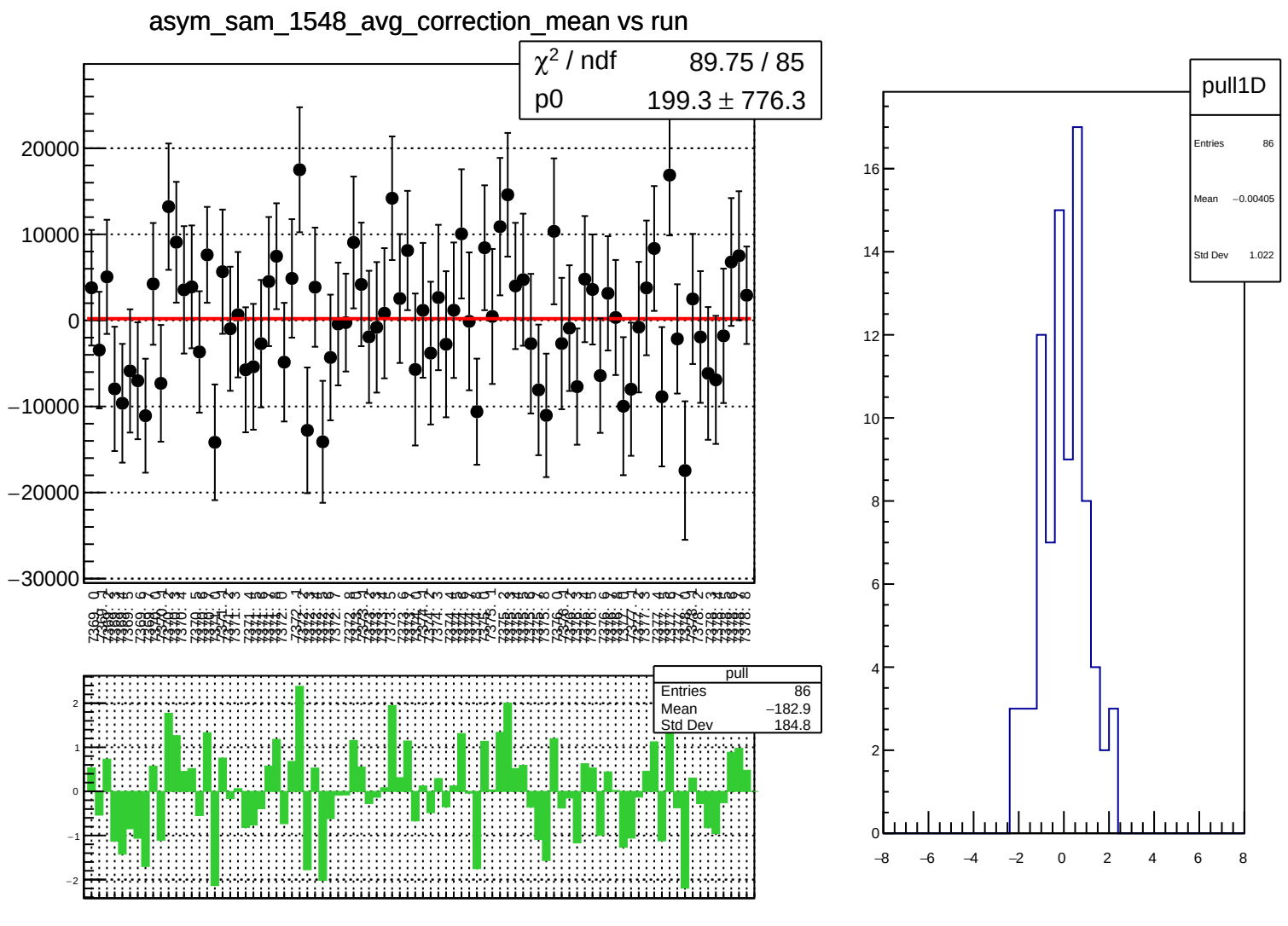

pull1D
Entries 86
Mean −0.0002509
Std Dev 0.9879
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

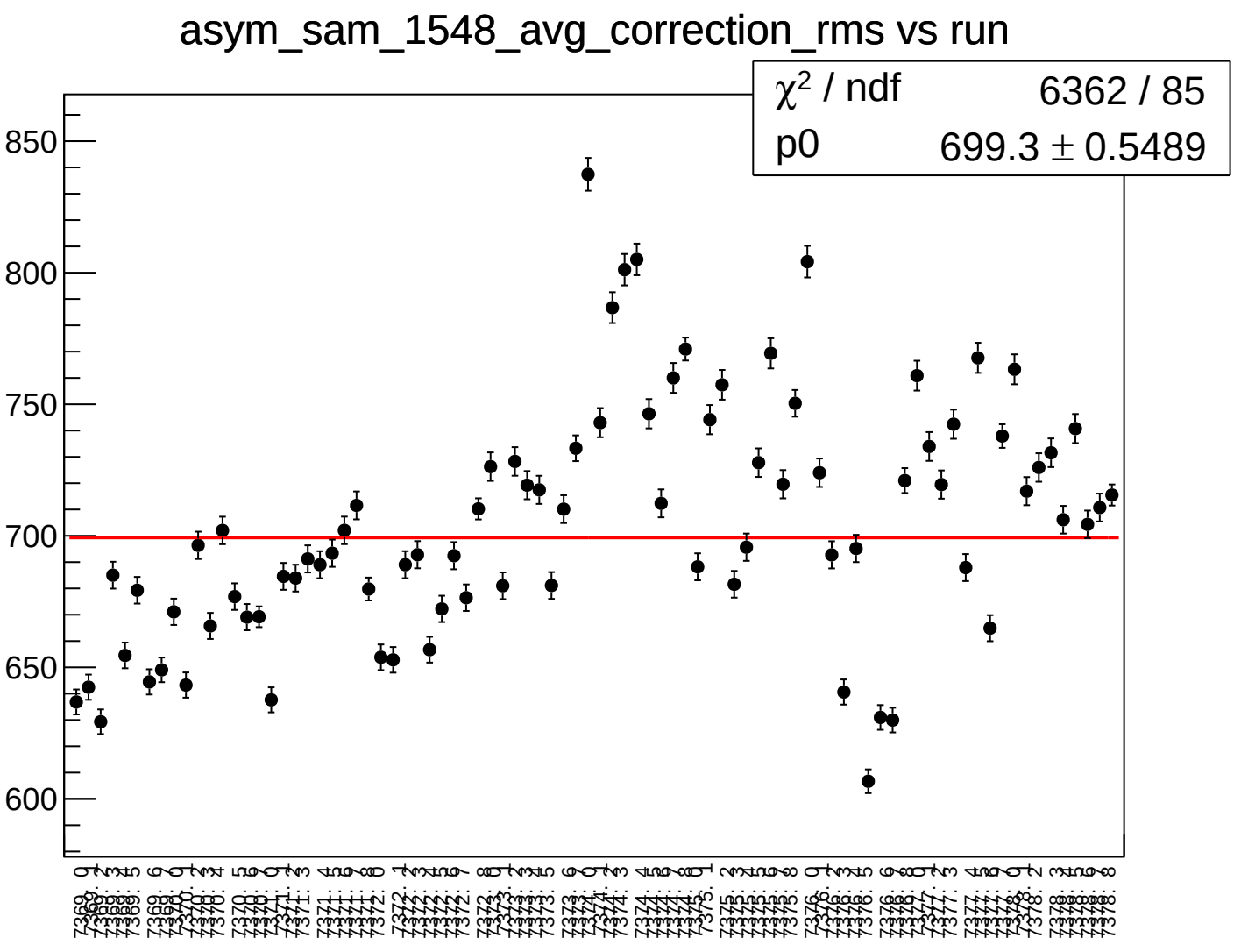

asym_sam_26_48_dd_rms vs run
χ^2 / ndf 5671 / 85
p0 503 ± 0.3947
600
580
560
540
520
500
480
460
440
420

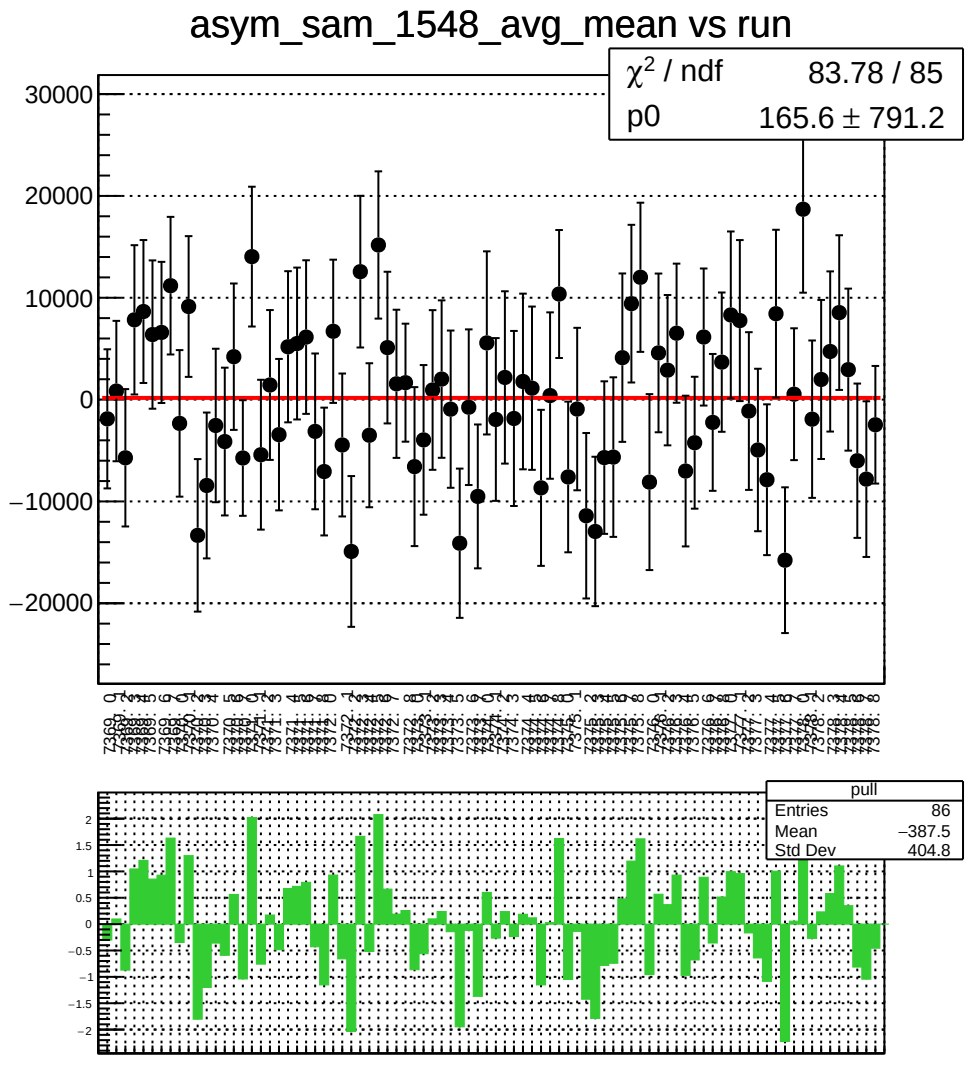

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 76.55 / 85
p0 320.5 ± 150.6
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −87.95
Std Dev 145.4
2
1
0
−1
−2

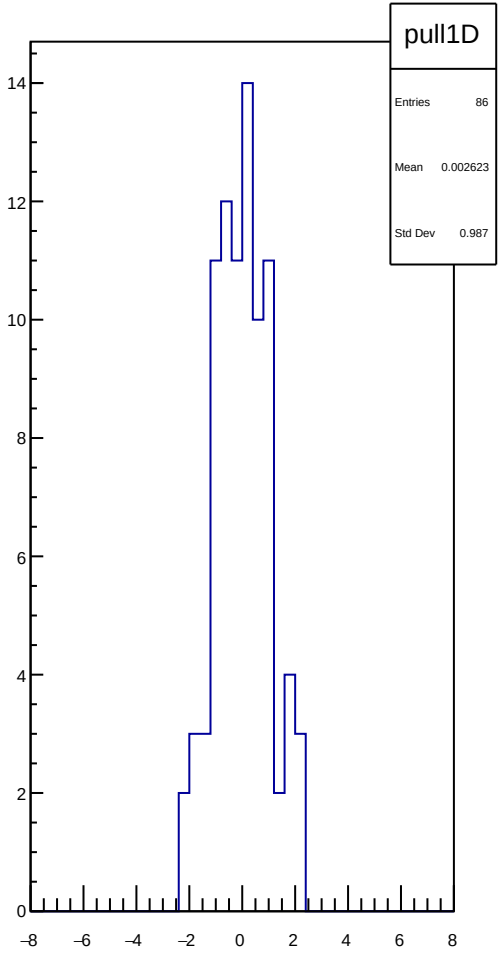

pull1D
Entries 86
Mean 0.0111
Std Dev 0.9434
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

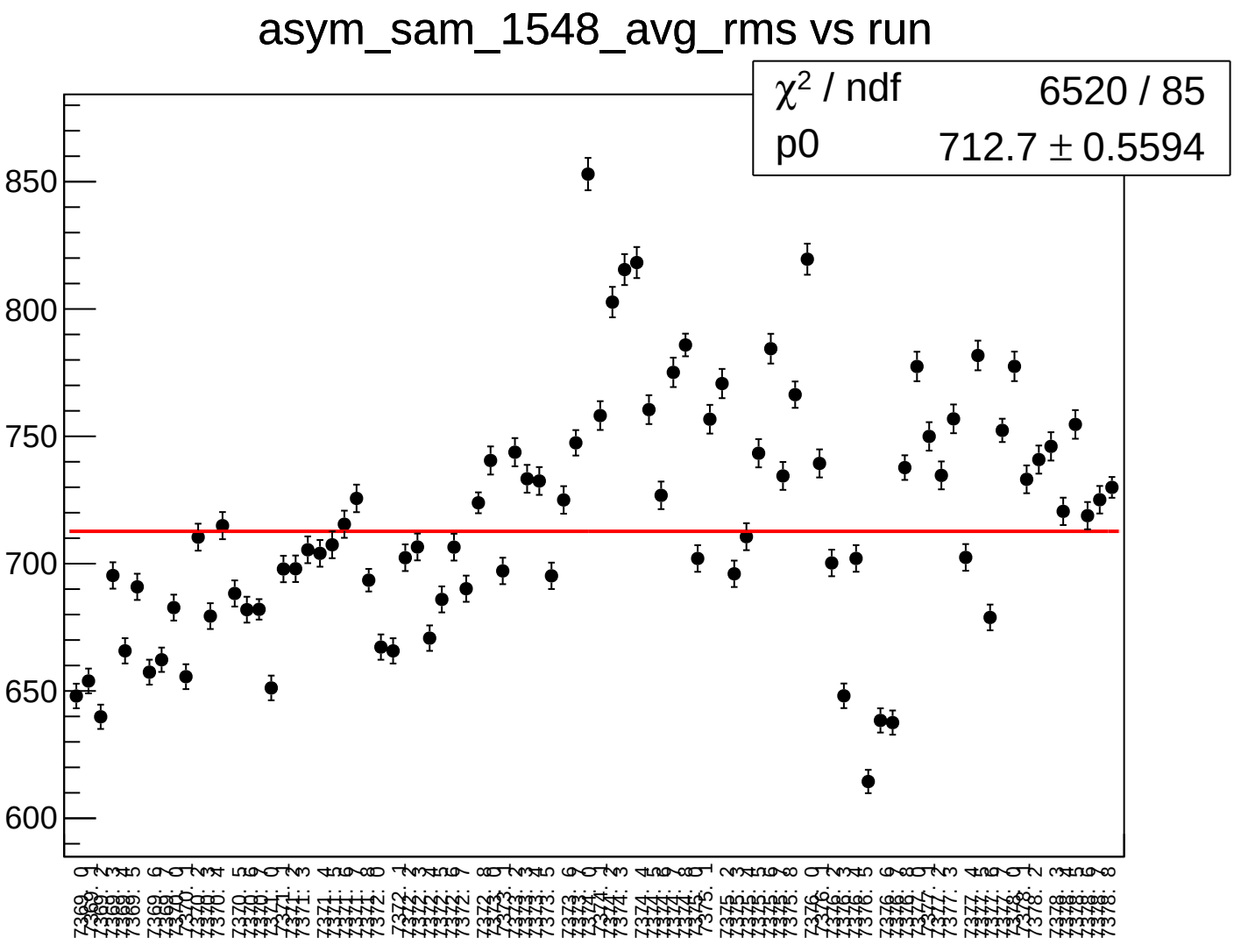

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 2.488e+04 / 85
p0 134.9 ± 0.1065
170
160
150
140
130
120
110
100
90

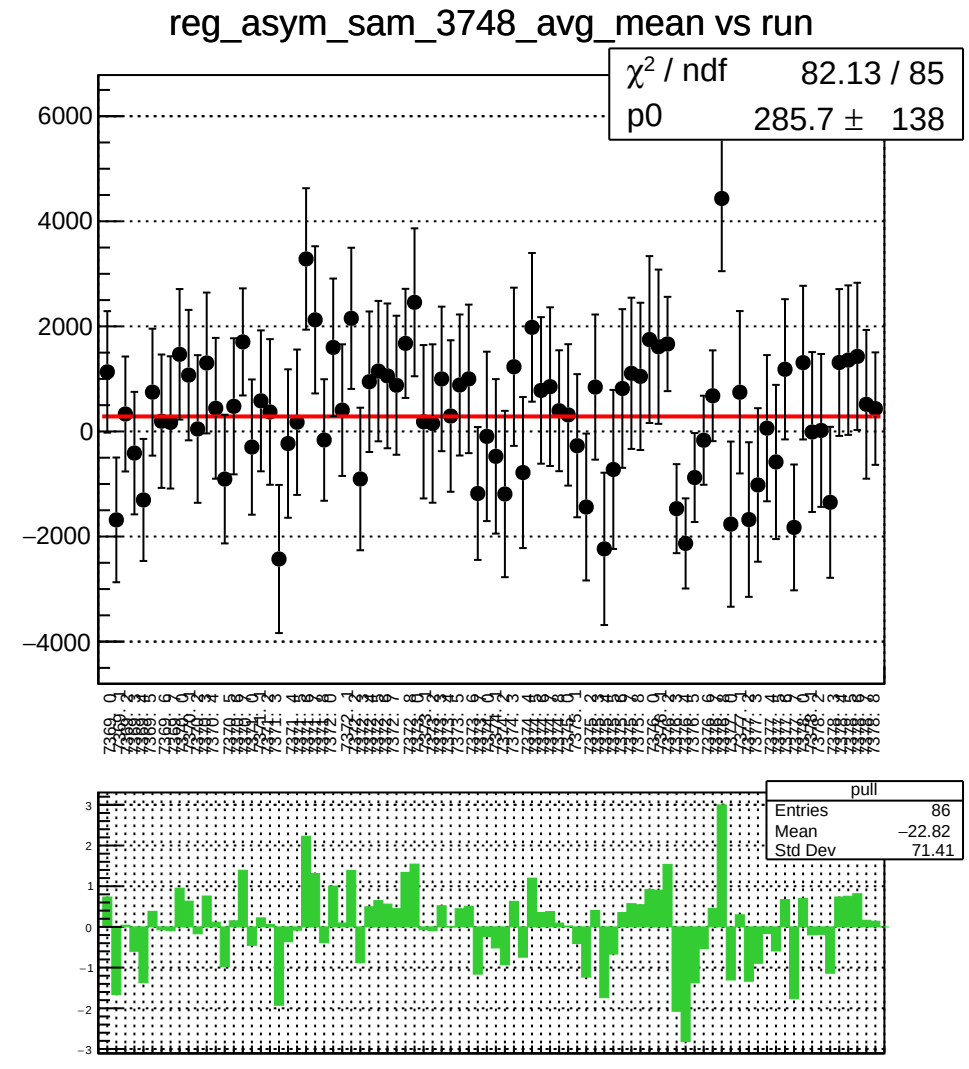

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 89.75 / 85
p0 199.3 ± 776.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −182.9
Std Dev 184.8
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.00405
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

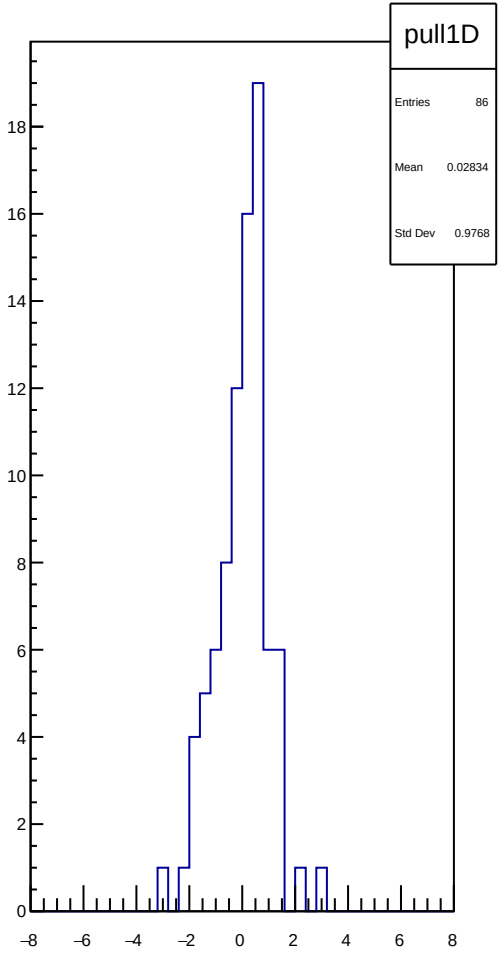

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 6362 / 85
p0 699.3 ± 0.5489
850
800
750
700
650
600

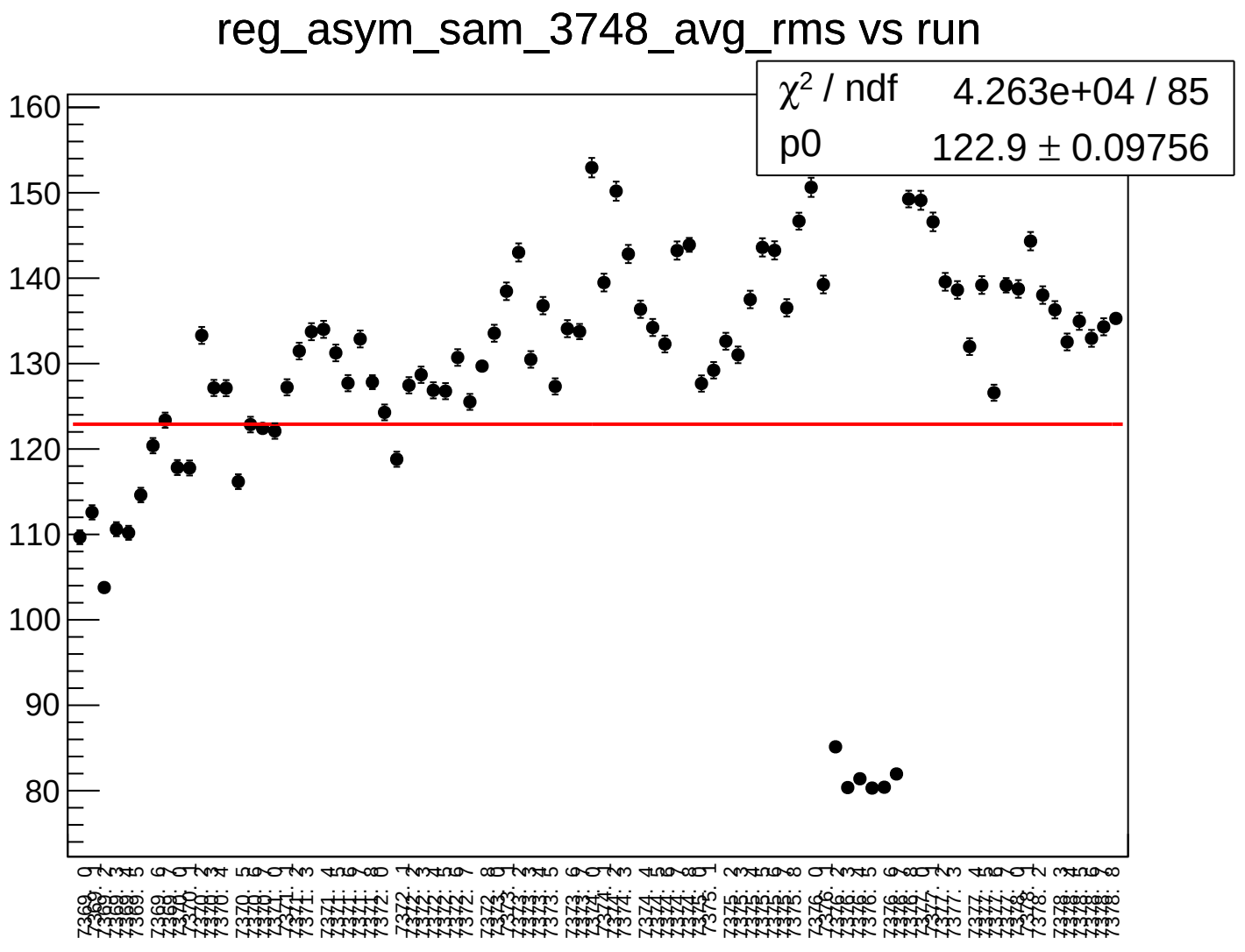

asym_sam_1548_avg_mean vs run
χ² / ndf 83.78 / 85
p0 165.6 ± 791.2
pull
Entries 86
Mean −387.5
Std Dev 404.8

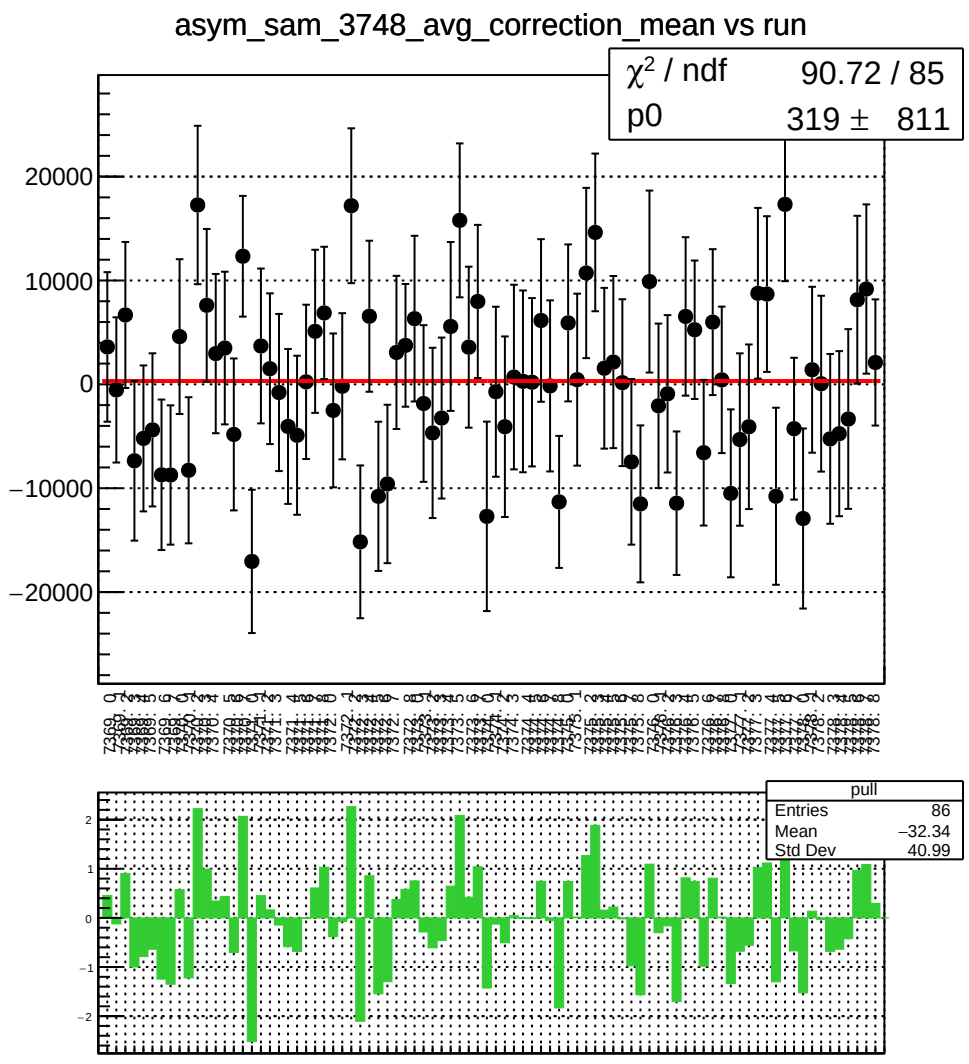

pull1D
Entries 86
Mean 0.002623
Std Dev 0.987

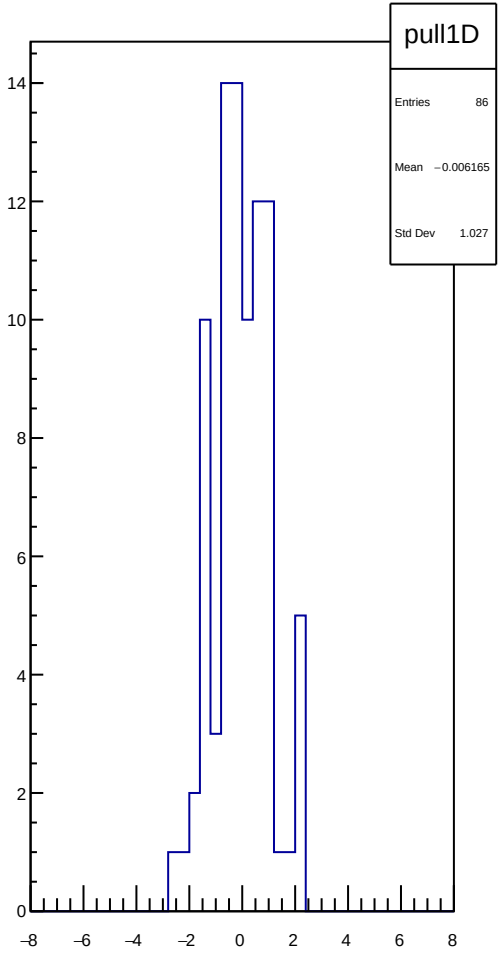

asym_sam_1548_avg_rms vs run
χ² / ndf 6520 / 85
p0 712.7 ± 0.5594
850
800
750
700
650
600

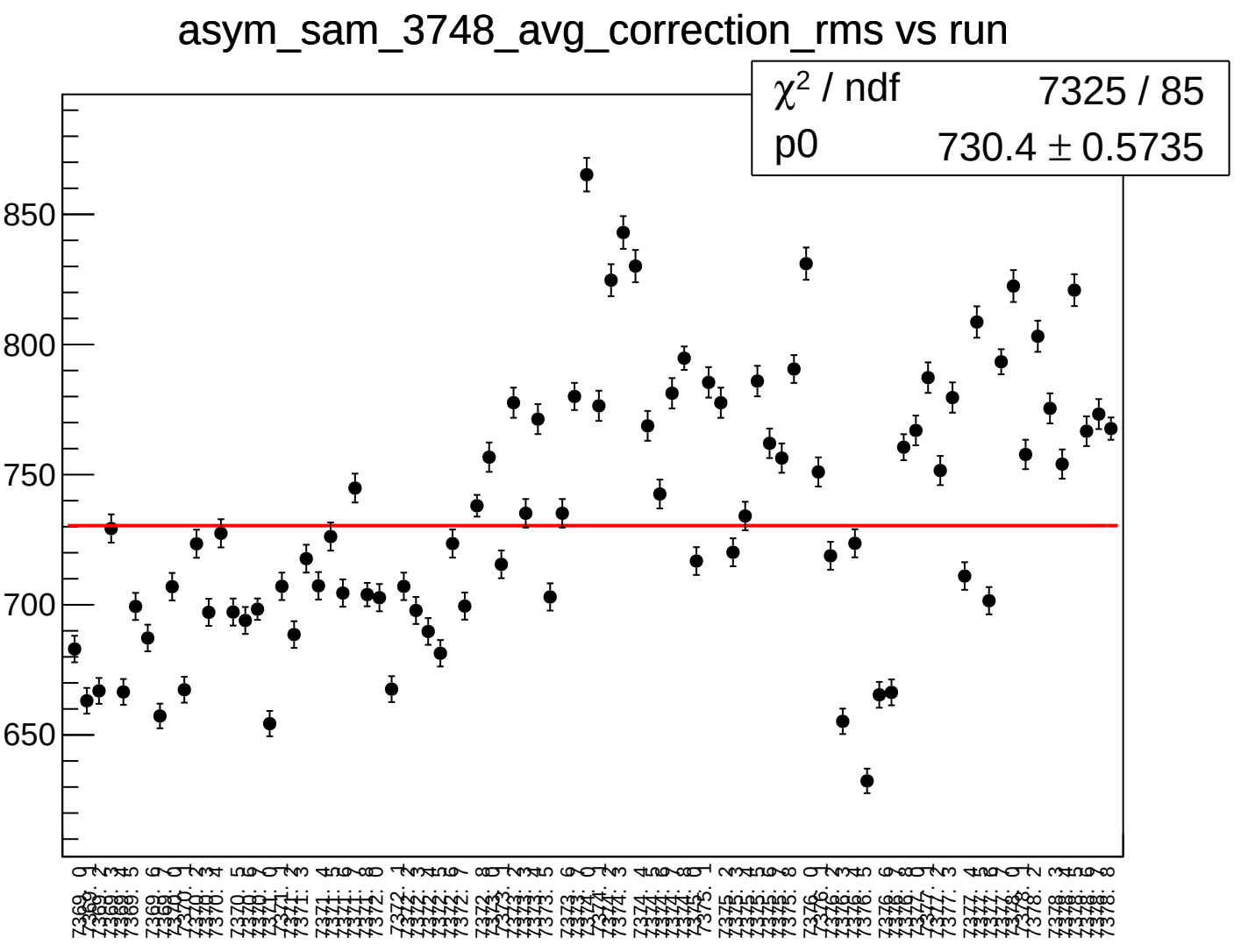

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 82.13 / 85
p0 285.7 ± 138
pull
Entries 86
Mean −22.82
Std Dev 71.41

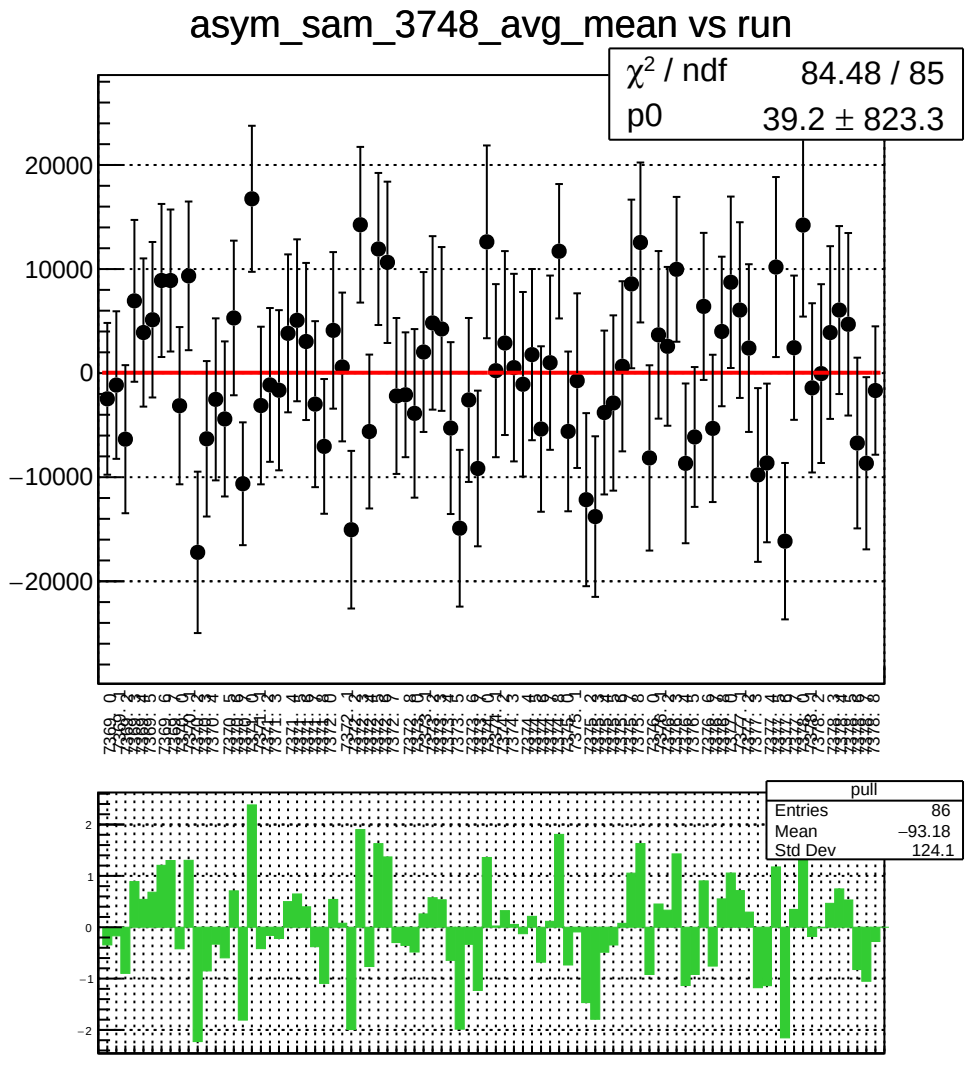

pull1D
Entries 86
Mean 0.02834
Std Dev 0.9768

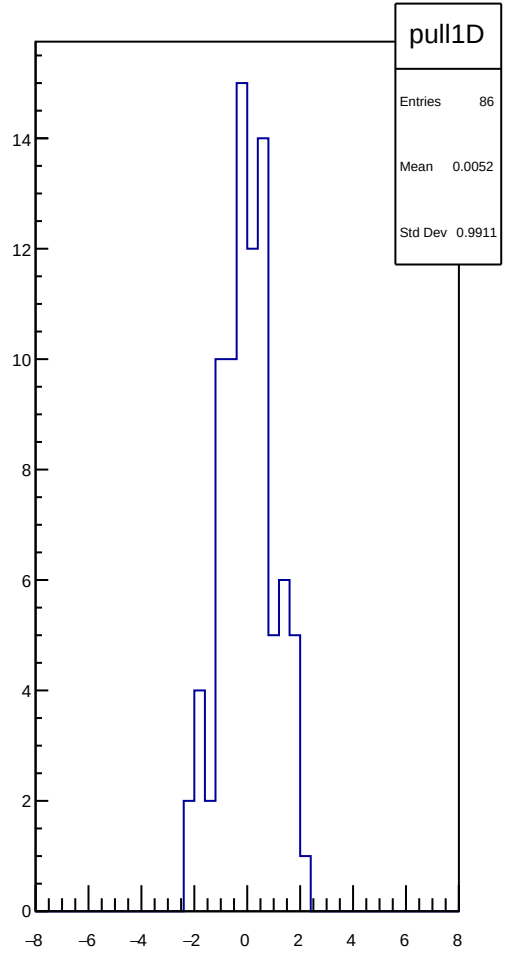

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 4.263e+04 / 85
p0 122.9 ± 0.09756
160
150
140
130
120
110
100
90
80

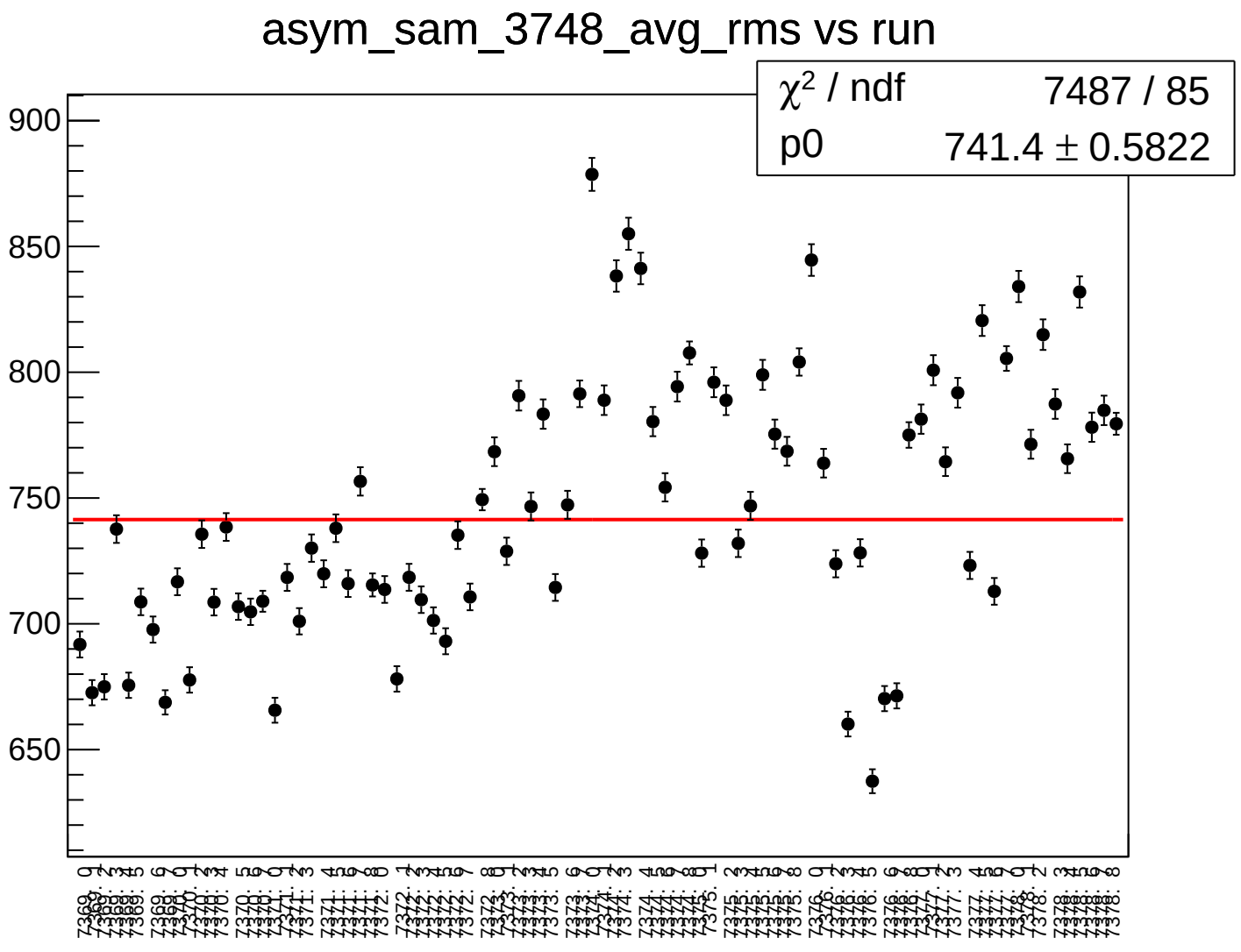

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 90.72 / 85
p0 319 ± 811
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −32.34
Std Dev 40.99
2
1
0
−1
−2

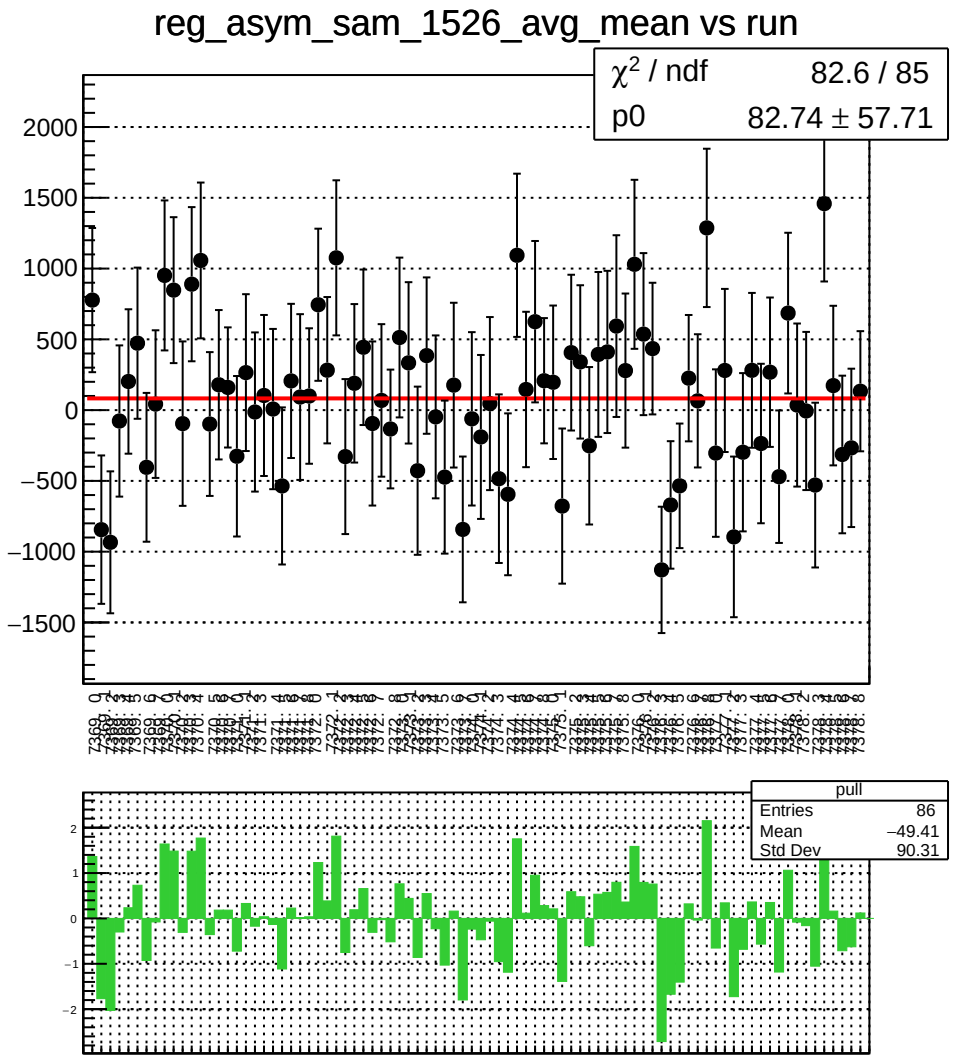

pull1D
Entries 86
Mean −0.006165
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

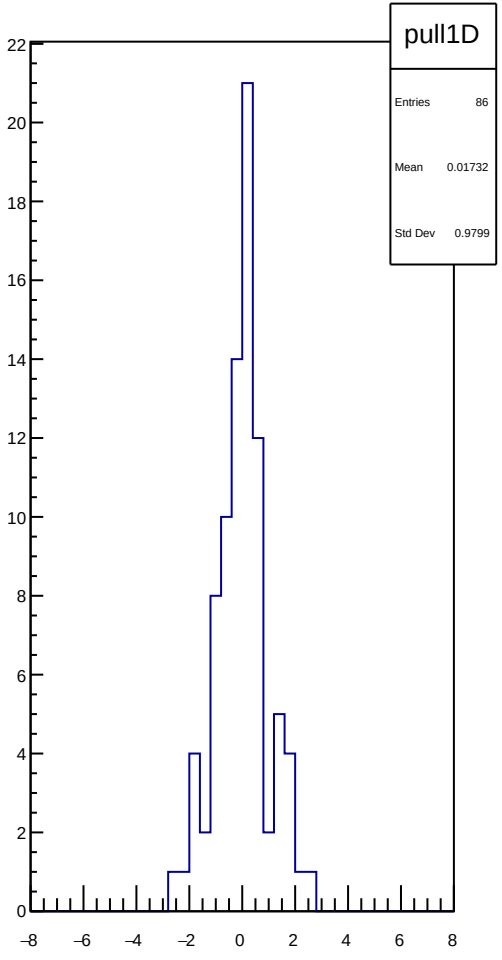

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 7325 / 85
p0 730.4 ± 0.5735
850
800
750
700
650

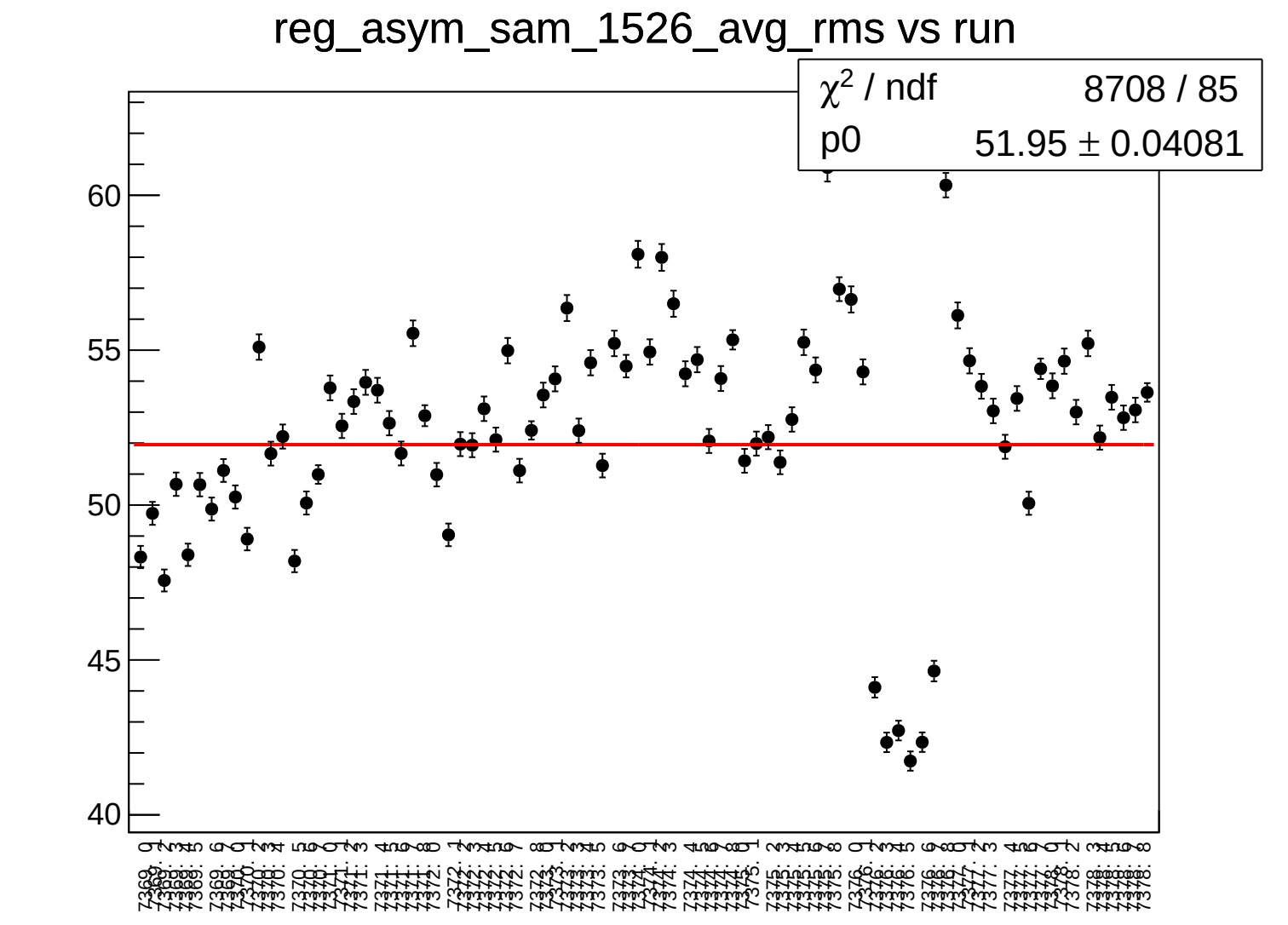

asym_sam_3748_avg_mean vs run
χ² / ndf 84.48 / 85
p0 39.2 ± 823.3
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −93.18
Std Dev 124.1
2
1
0
−1
−2

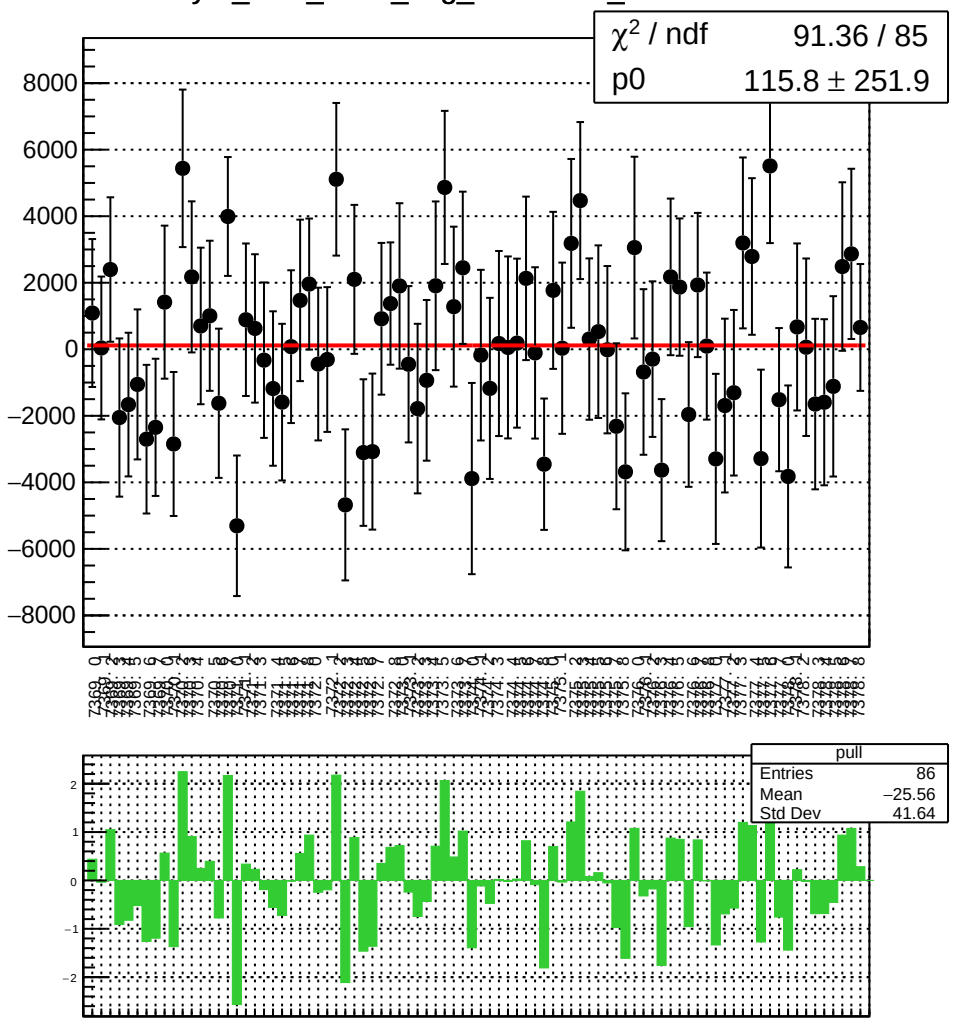

pull1D
Entries 86
Mean 0.0052
Std Dev 0.9911
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

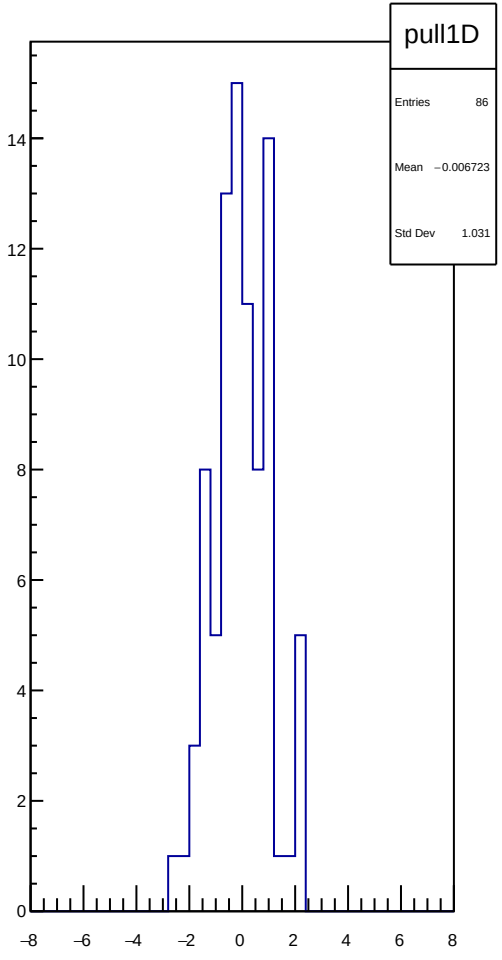

asym_sam_3748_avg_rms vs run
χ² / ndf 7487 / 85
p0 741.4 ± 0.5822
900
850
800
750
700
650

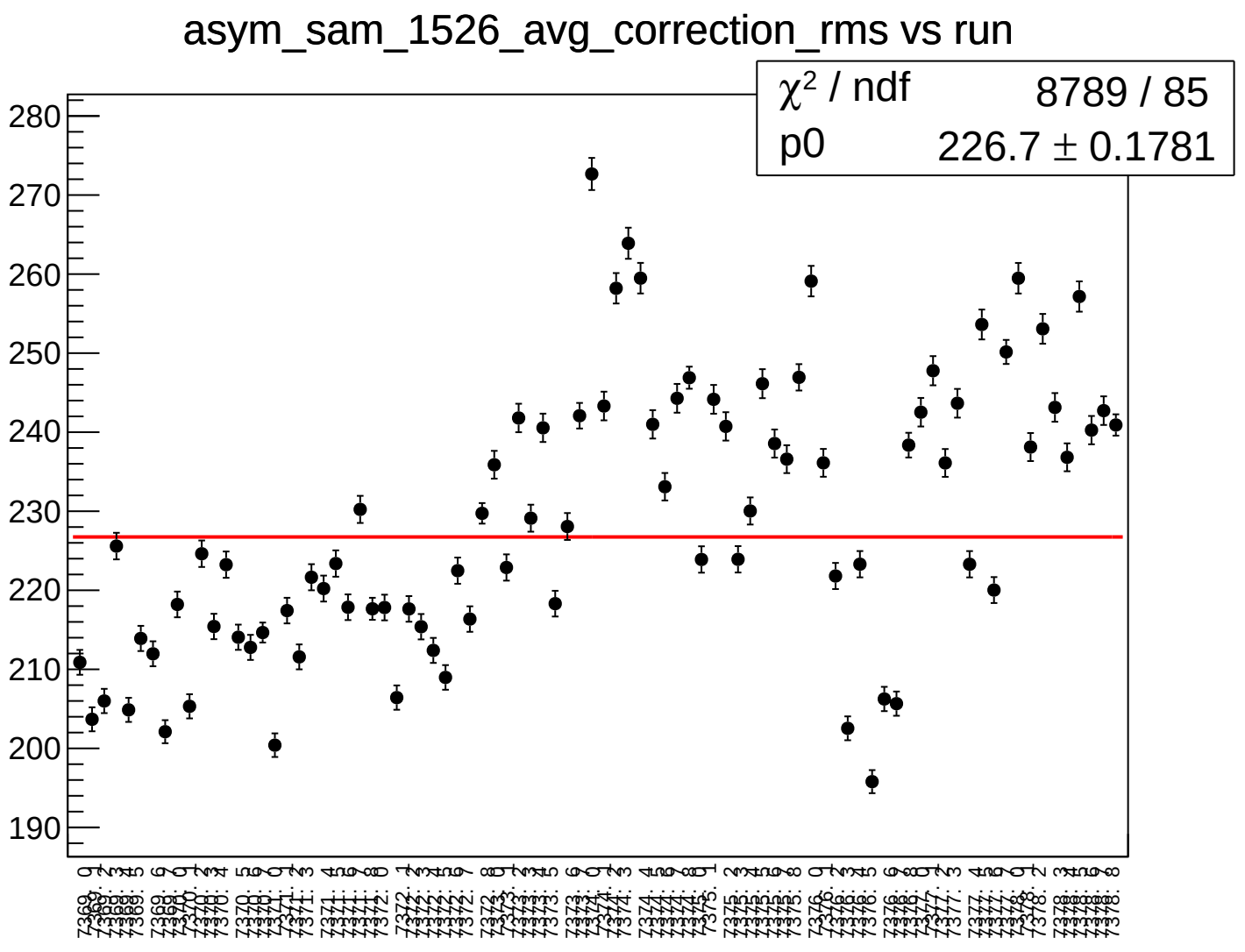

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 82.6 / 85
p0 82.74 ± 57.71
pull
Entries 86
Mean −49.41
Std Dev 90.31

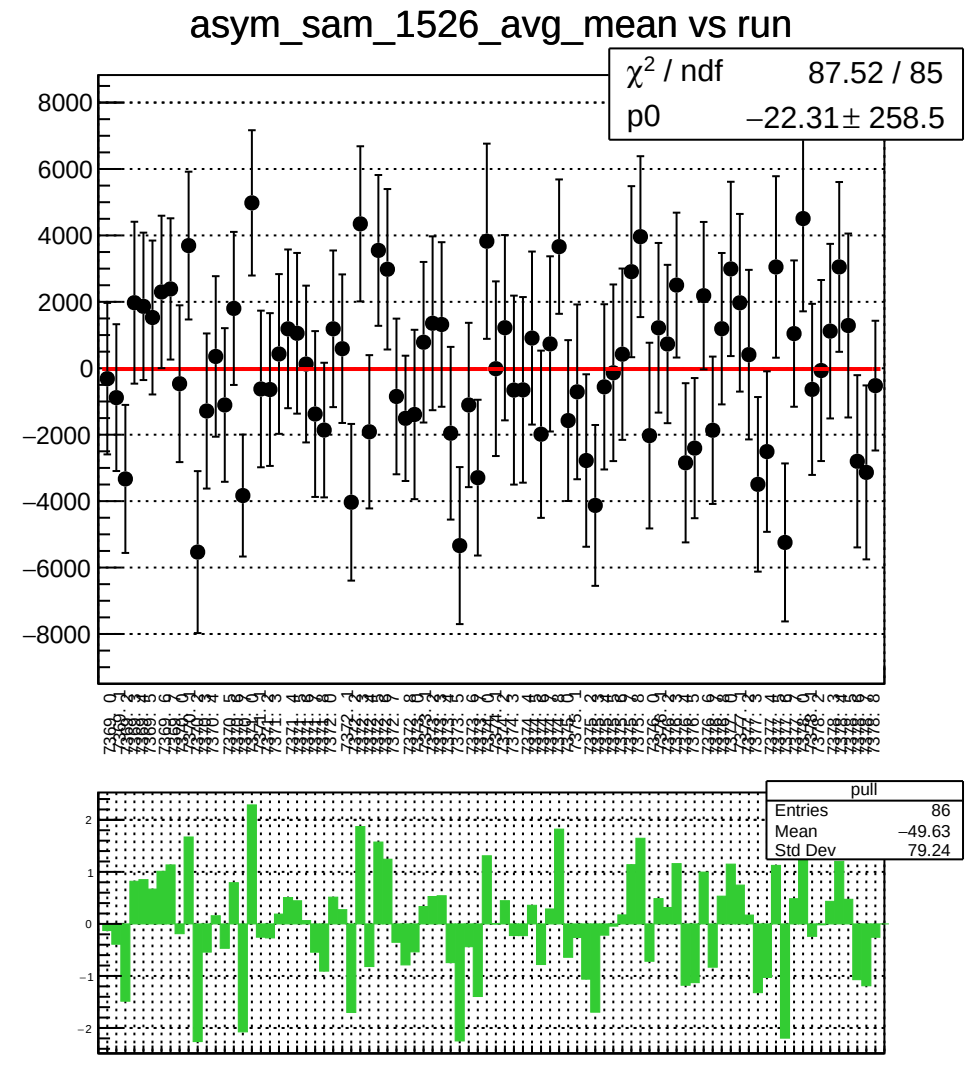

pull1D
Entries 86
Mean 0.01732
Std Dev 0.9799

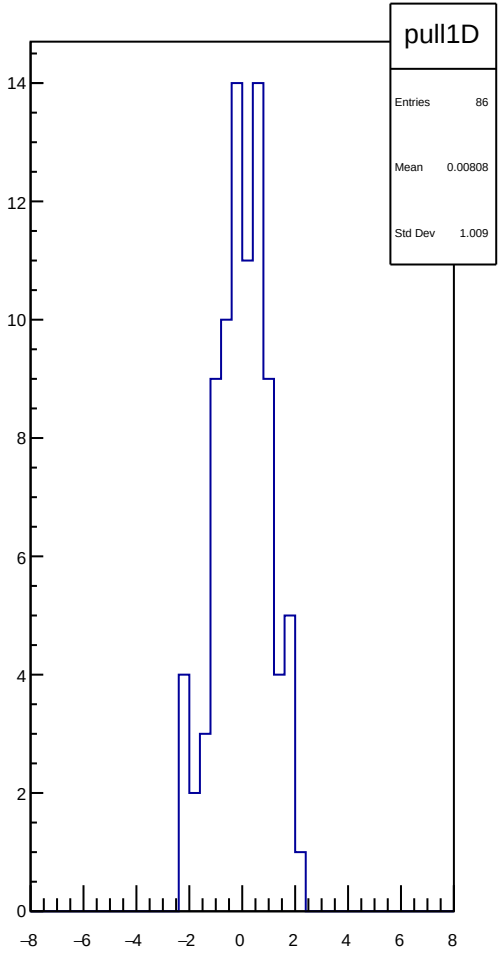

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 8708 / 85
p0 51.95 ± 0.04081
60
55
50
45
40

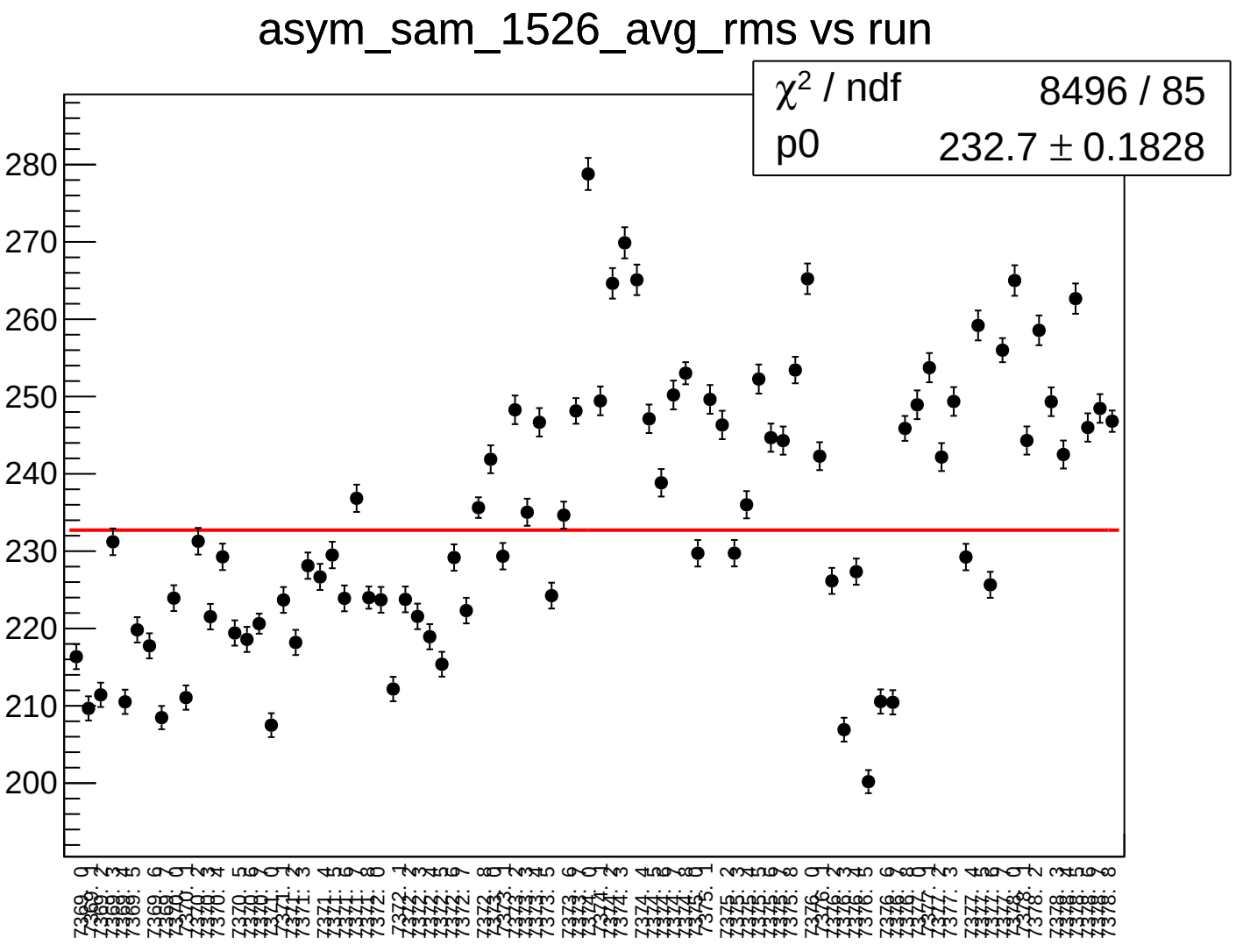

asym_sam_1526_avg_correction_mean vs run
χ^2 / ndf 91.36 / 85
p0 115.8 ± 251.9
pull
Entries 86
Mean −25.56
Std Dev 41.64

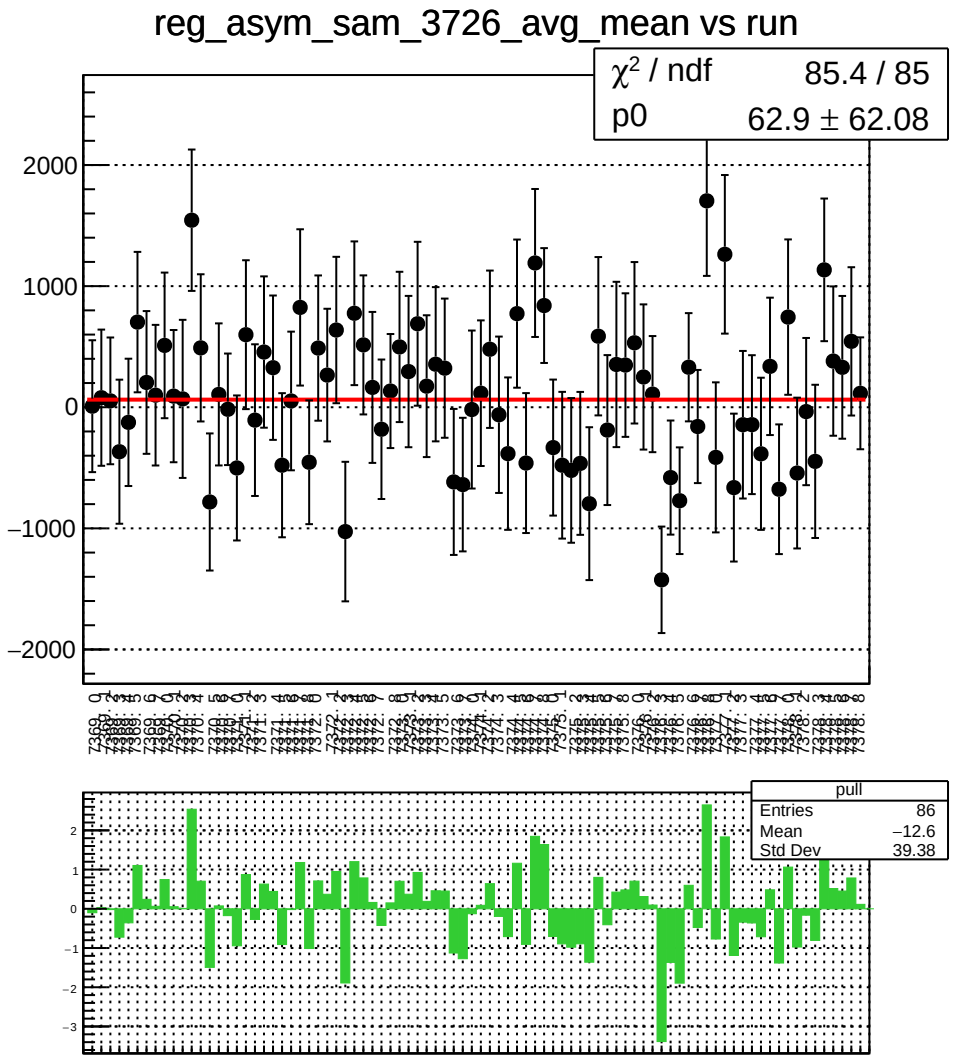

pull1D
Entries 86
Mean −0.006723
Std Dev 1.031

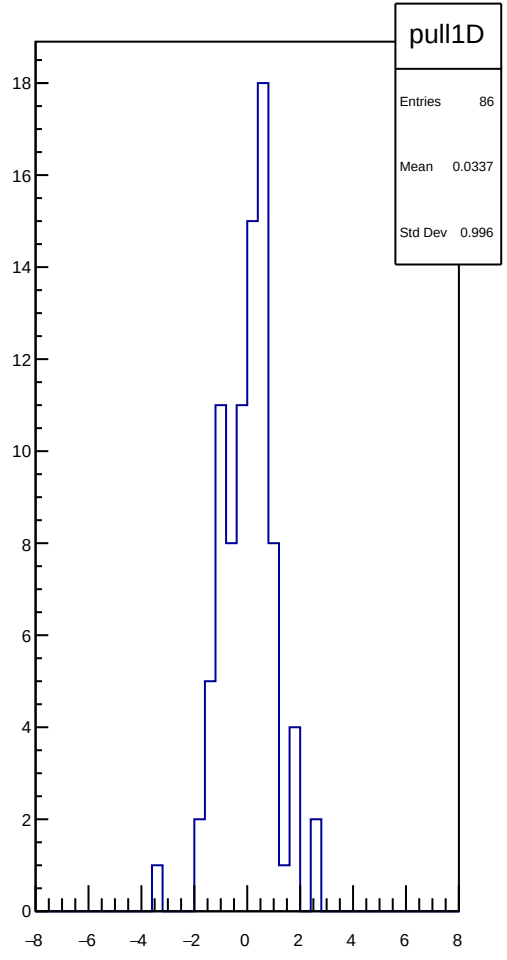

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 8789 / 85
p0 226.7 ± 0.1781
280
270
260
250
240
230
220
210
200
190

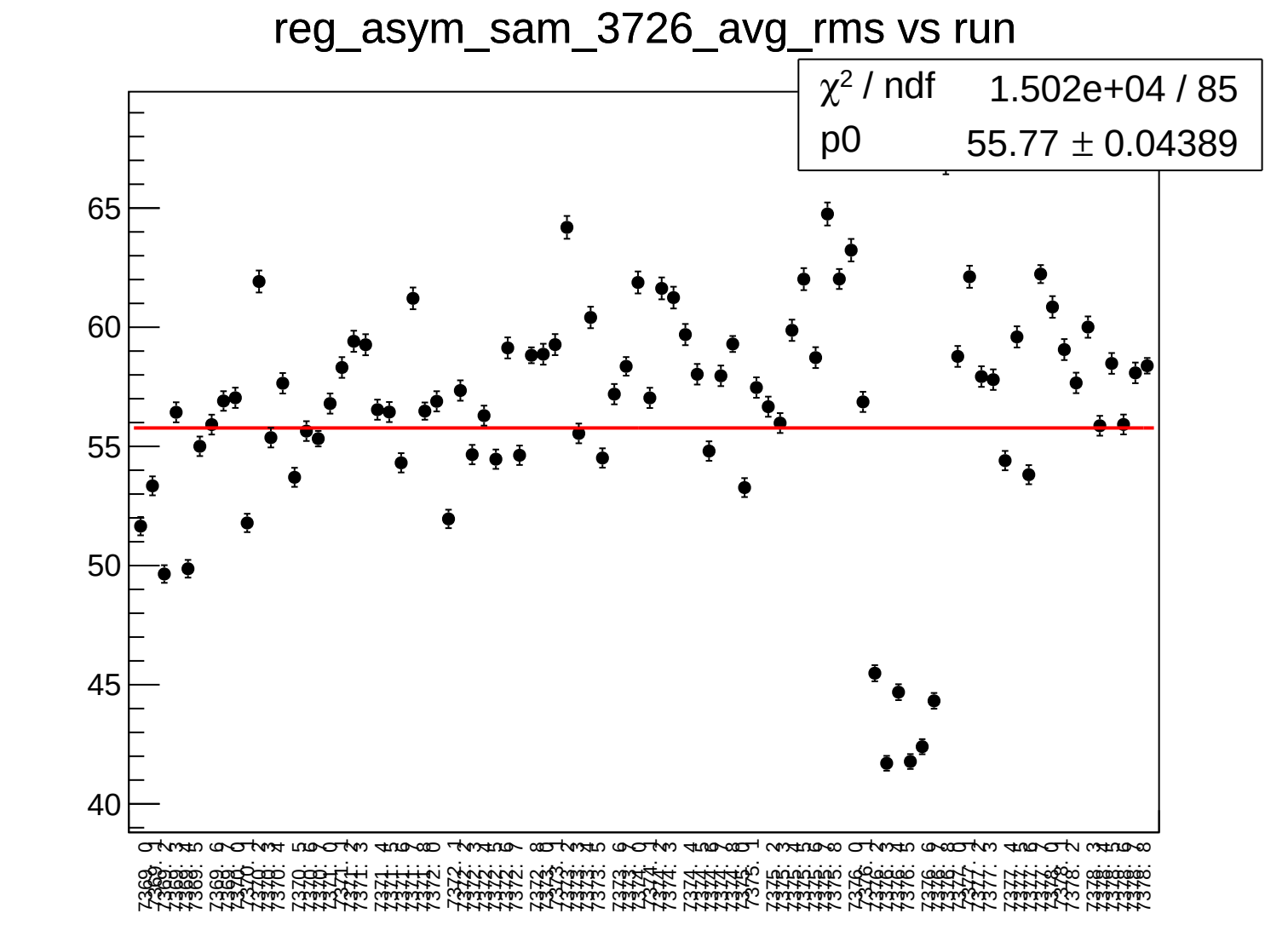

asym_sam_1526_avg_mean vs run
χ² / ndf 87.52 / 85
p0 −22.31 ± 258.5
pull
Entries 86
Mean −49.63
Std Dev 79.24

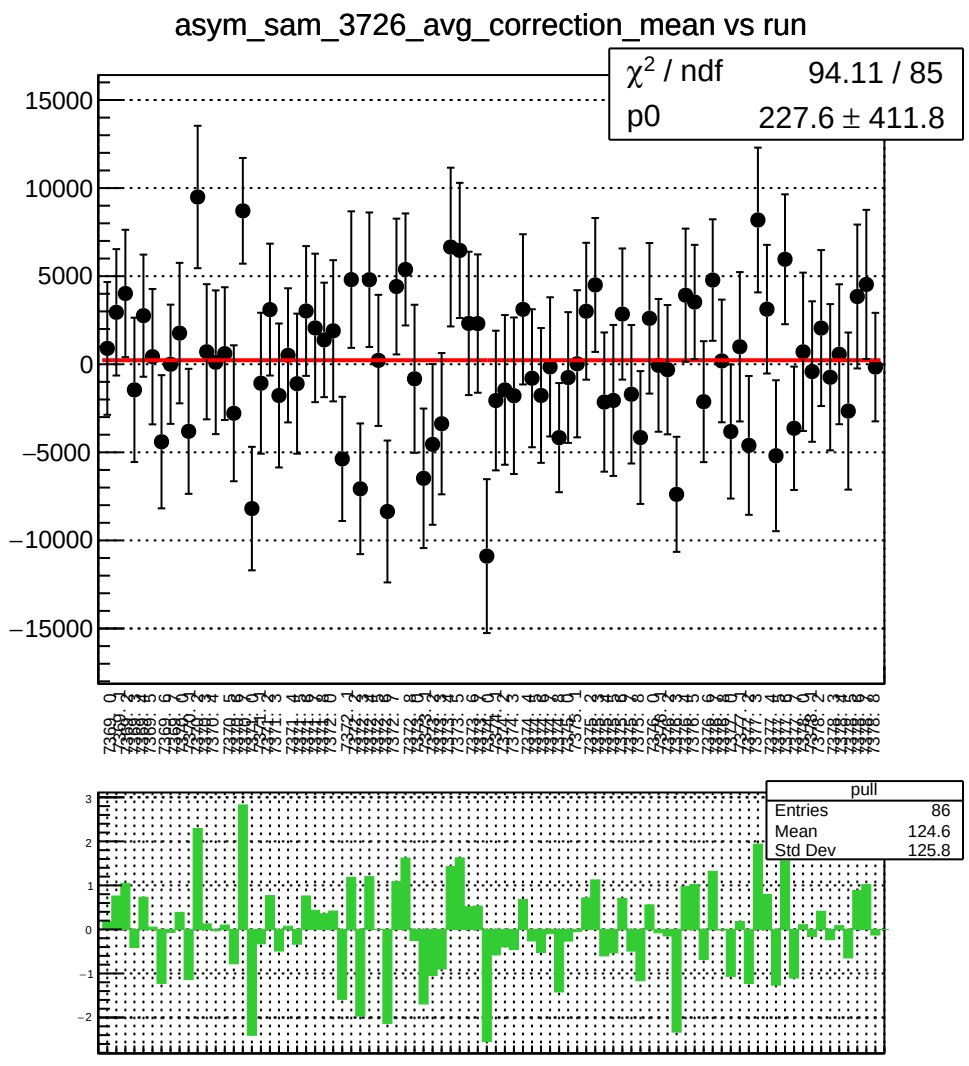

pull1D
Entries 86
Mean 0.00808
Std Dev 1.009

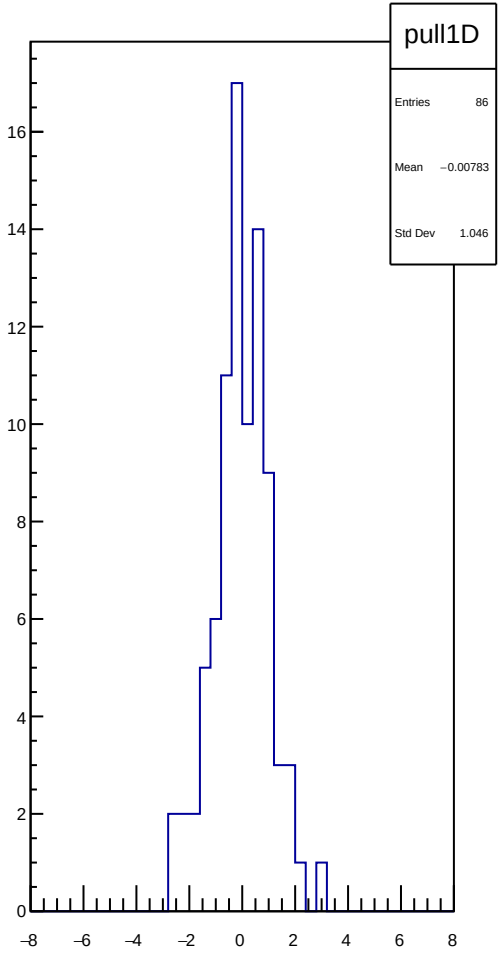

asym_sam_1526_avg_rms vs run
χ^2 / ndf 8496 / 85
p0 232.7 ± 0.1828
280
270
260
250
240
230
220
210
200

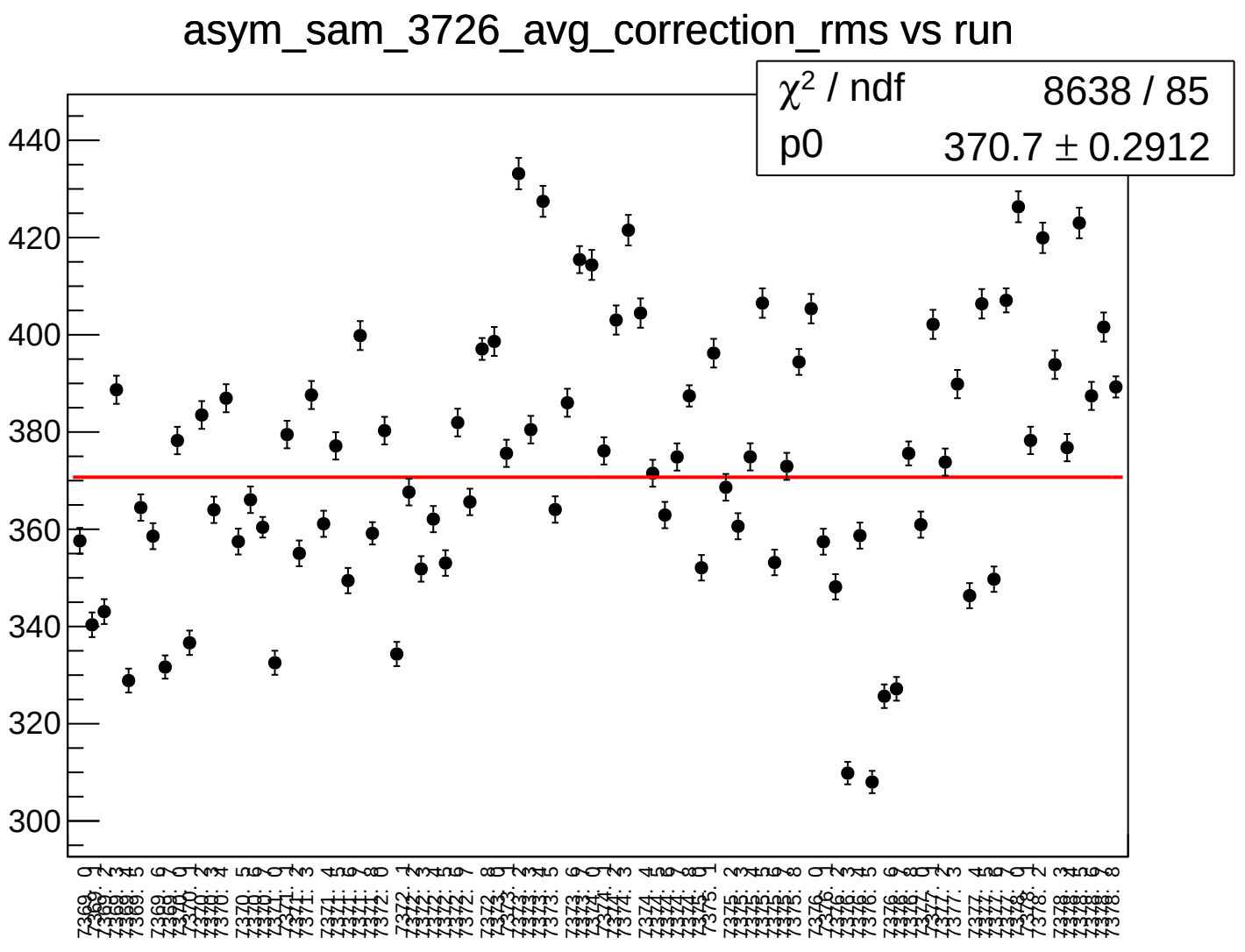

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 85.4 / 85
p0 62.9 ± 62.08
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −12.6
Std Dev 39.38
2
1
0
−1
−2
−3

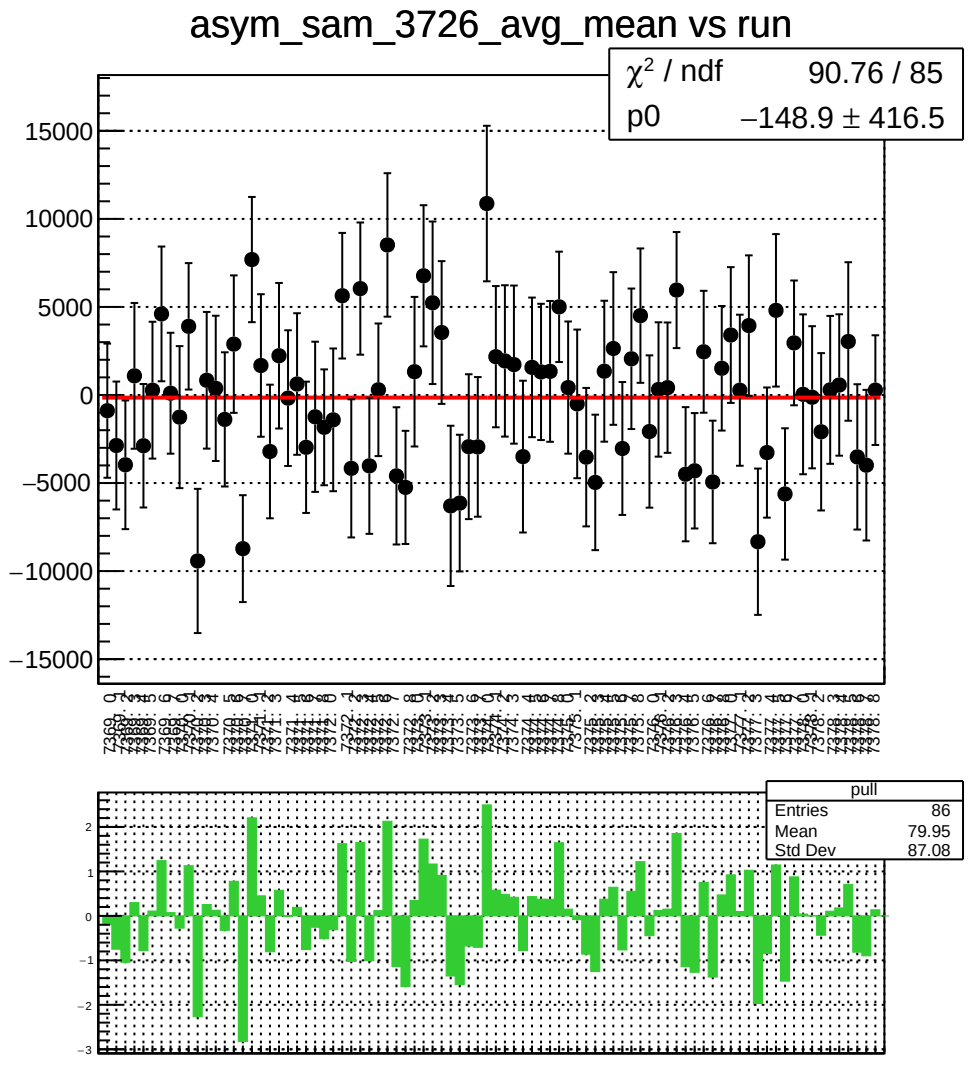

pull1D
Entries 86
Mean 0.0337
Std Dev 0.996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

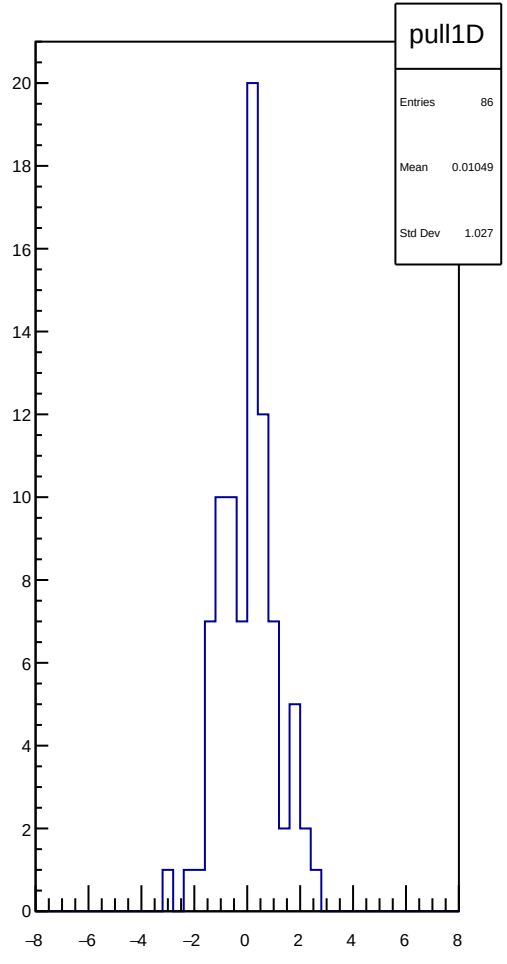

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 1.502e+04 / 85
p0 55.77 ± 0.04389
65
60
55
50
45
40

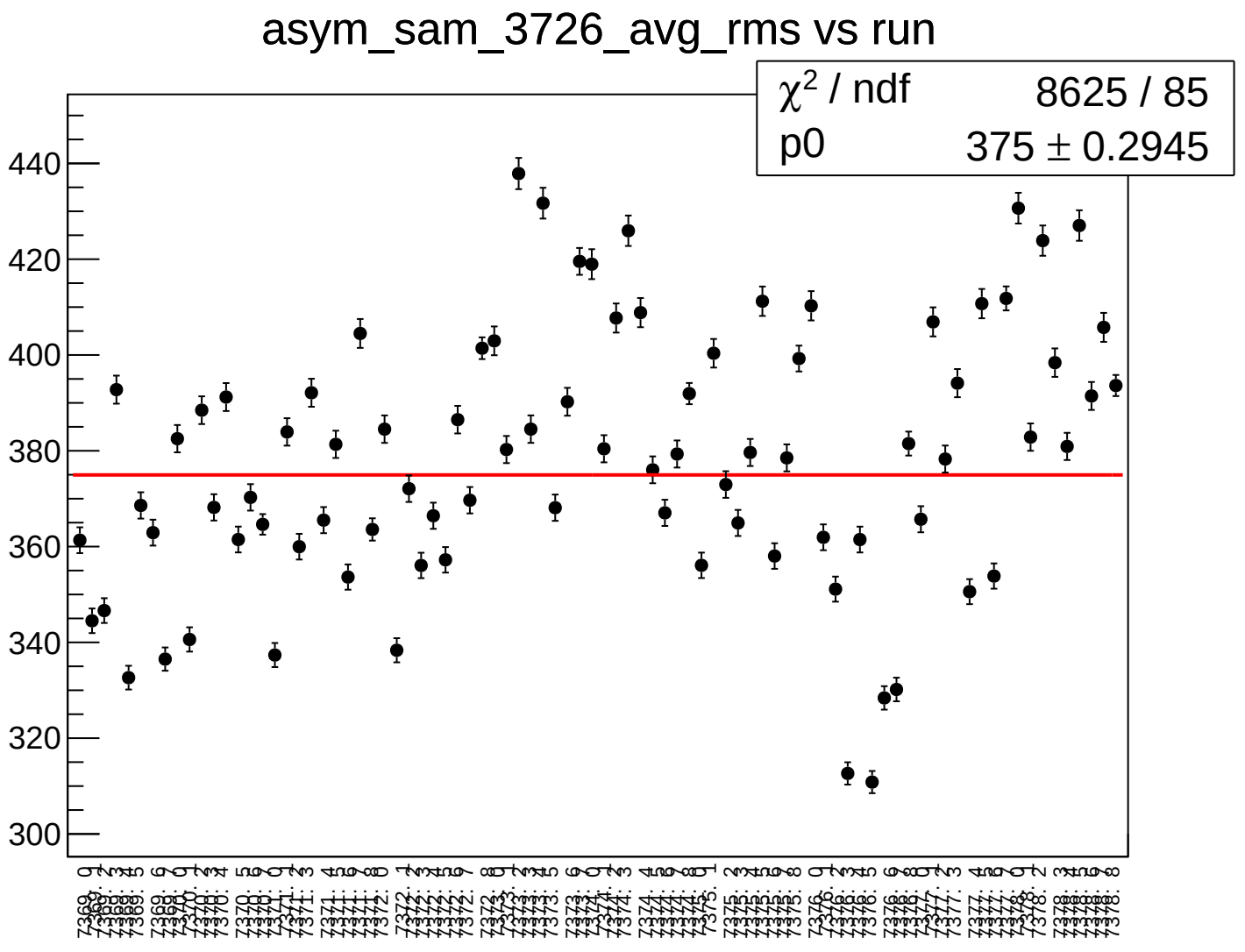

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 94.11 / 85
p0 227.6 ± 411.8
pull
Entries 86
Mean 124.6
Std Dev 125.8

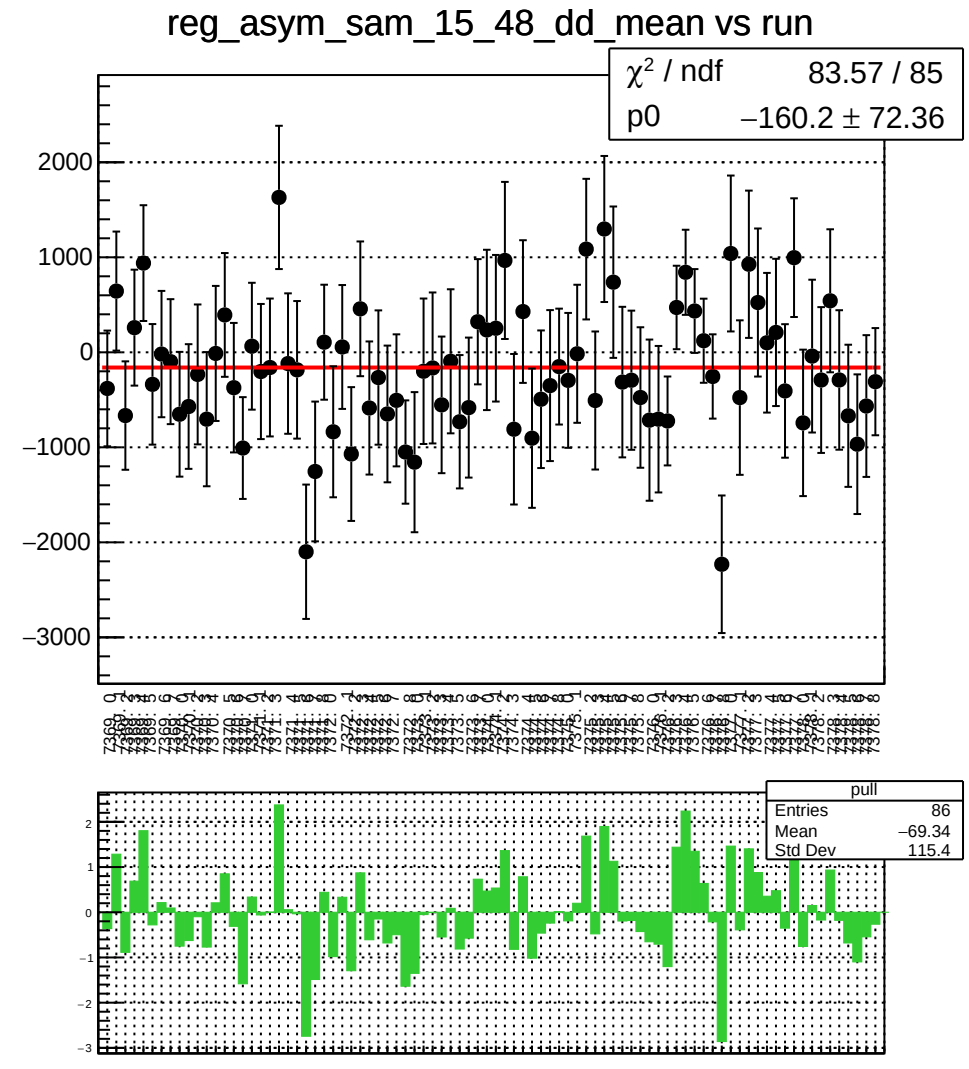

pull1D
Entries 86
Mean −0.00783
Std Dev 1.046

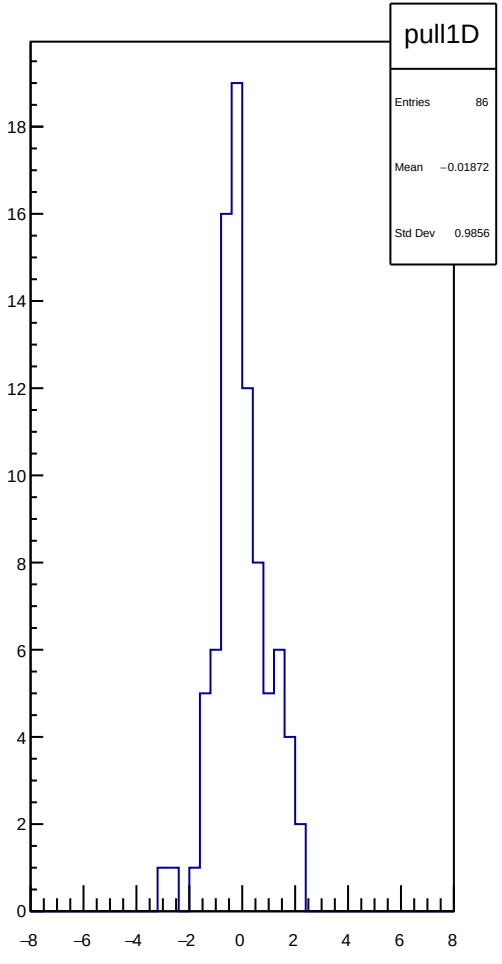

asym_sam_3726_avg_correction_rms vs run
χ^2 / ndf 8638 / 85
p0 370.7 ± 0.2912
440
420
400
380
360
340
320
300

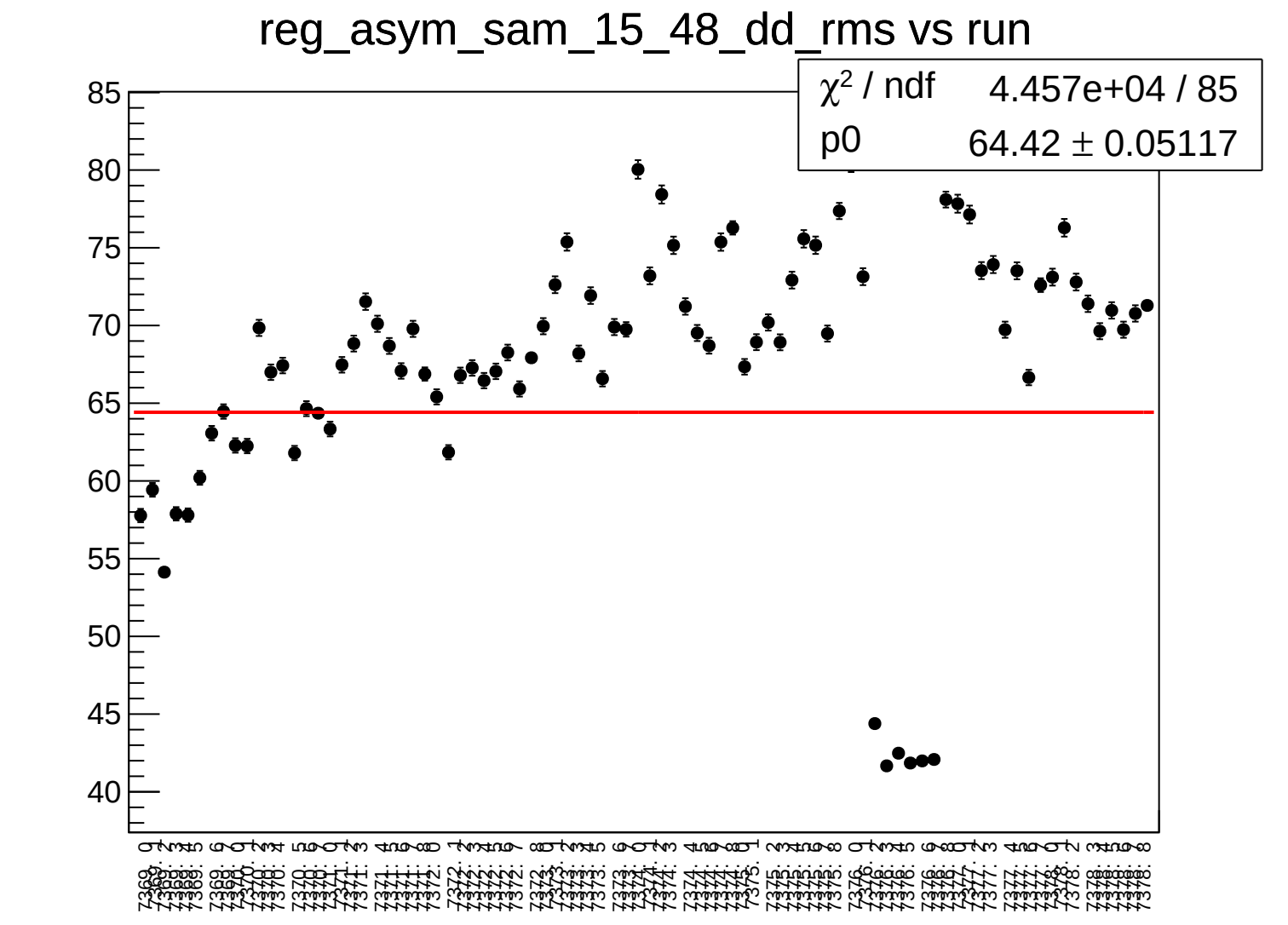

asym_sam_3726_avg_mean vs run
χ² / ndf 90.76 / 85
p0 −148.9 ± 416.5
pull
Entries 86
Mean 79.95
Std Dev 87.08

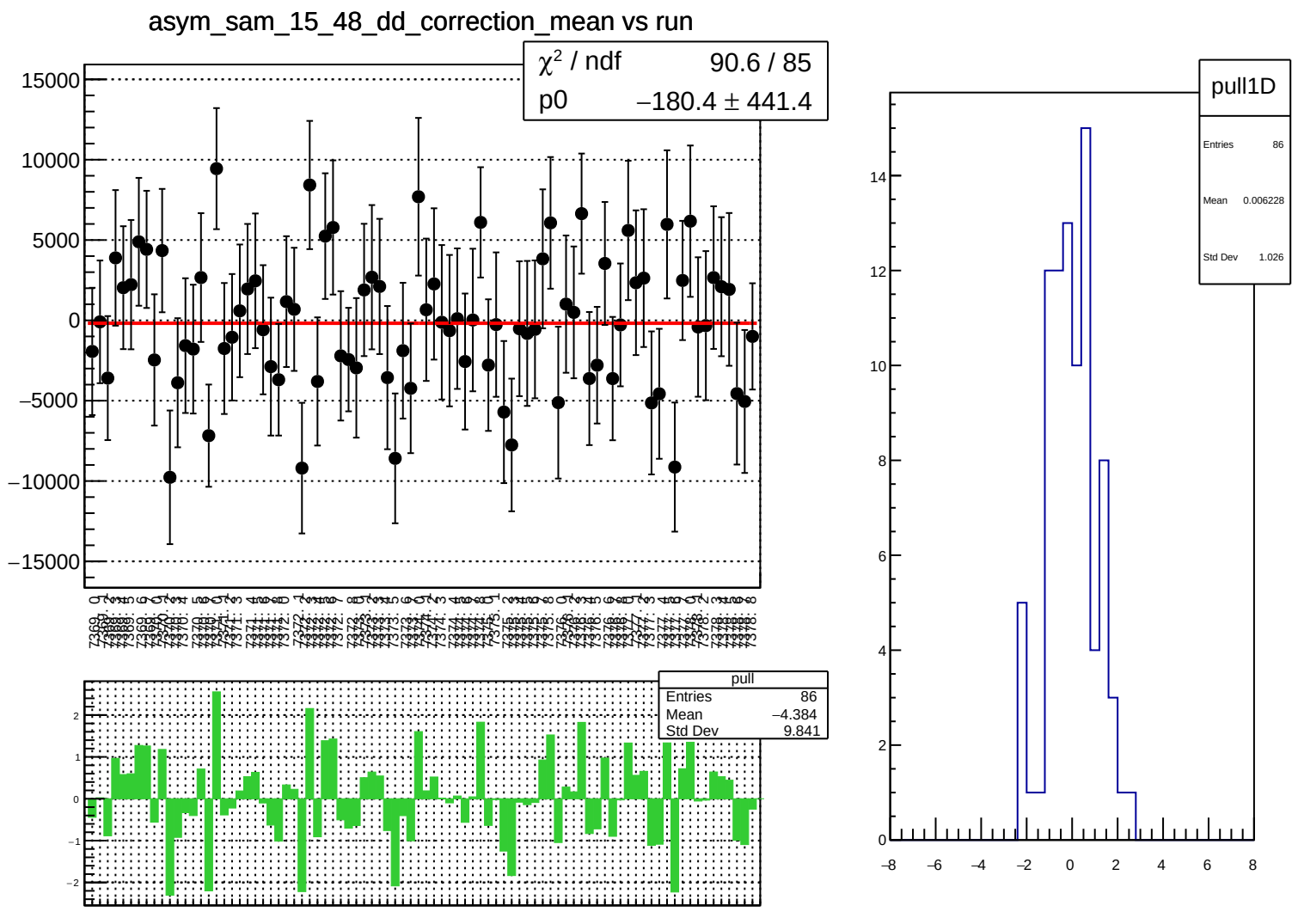

pull1D
Entries 86
Mean 0.01049
Std Dev 1.027

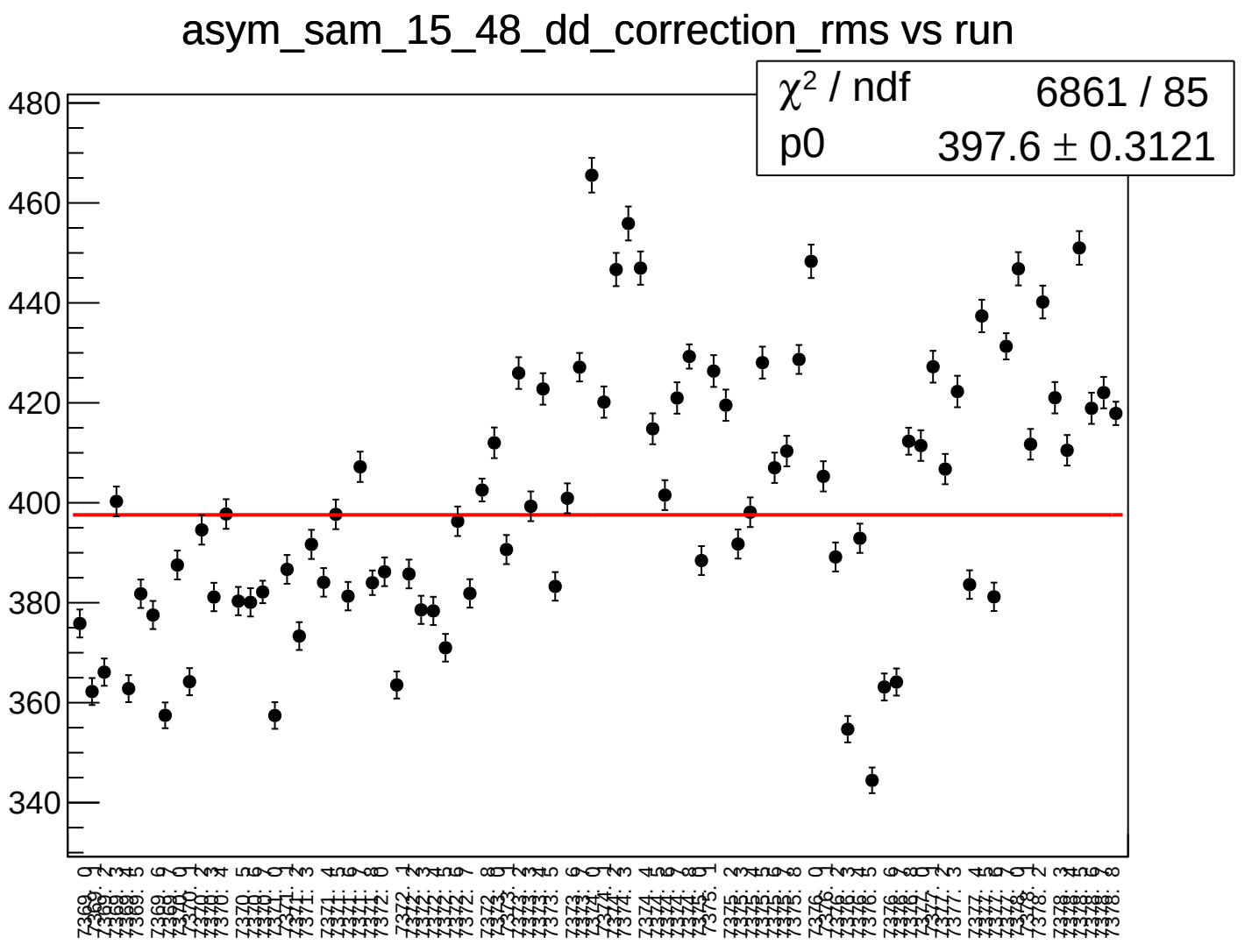

asym_sam_3726_avg_rms vs run
χ^2 / ndf 8625 / 85
p0 375 ± 0.2945
440
420
400
380
360
340
320
300

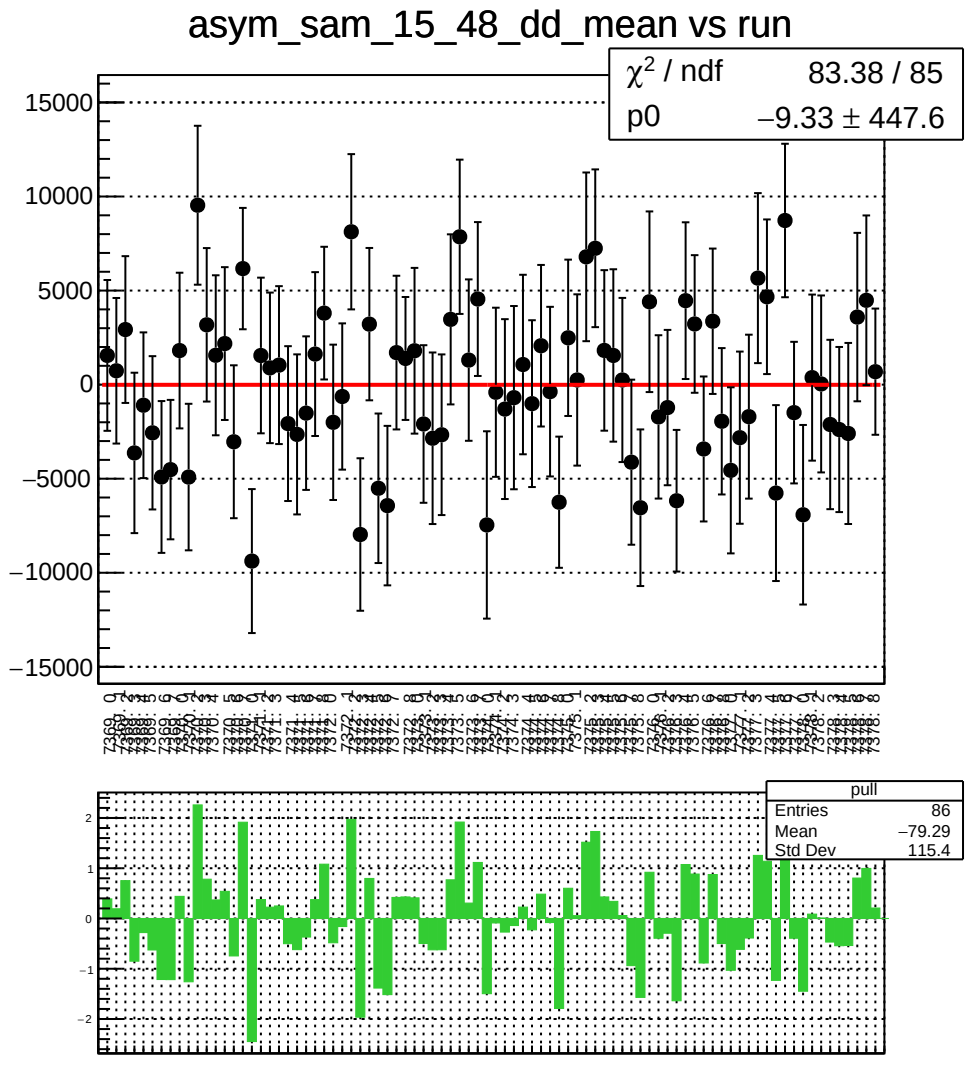

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 83.57 / 85
p0 −160.2 ± 72.36
pull
Entries 86
Mean −69.34
Std Dev 115.4

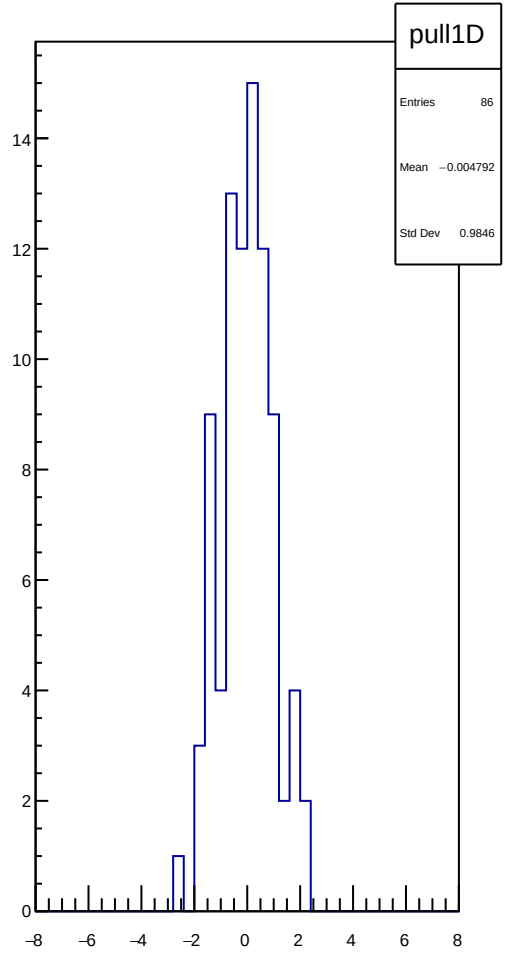

pull1D
Entries 86
Mean −0.01872
Std Dev 0.9856

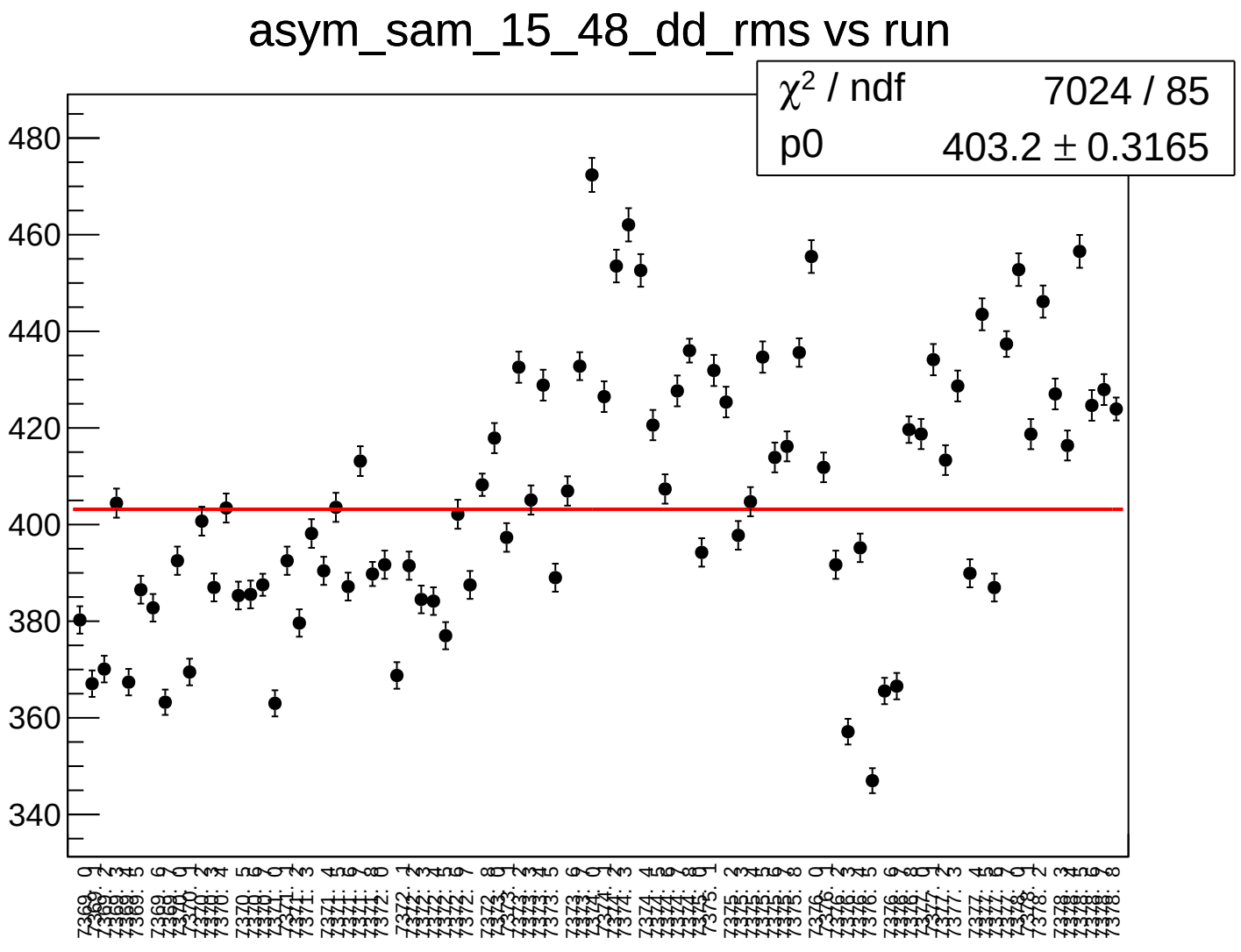

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 4.457e+04 / 85
p0 64.42 ± 0.05117
85
80
75
70
65
60
55
50
45
40

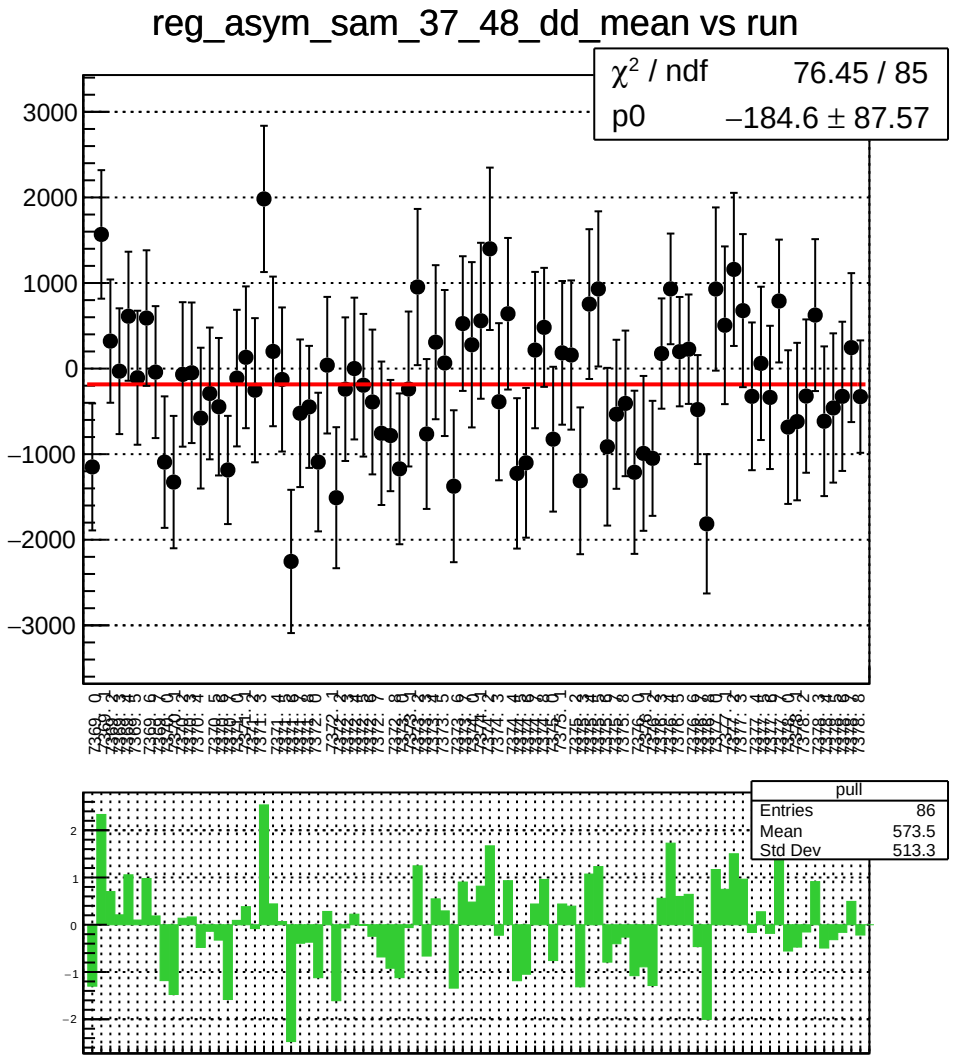

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 90.6 / 85
p0 −180.4 ± 441.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −4.384
Std Dev 9.841
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.006228
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

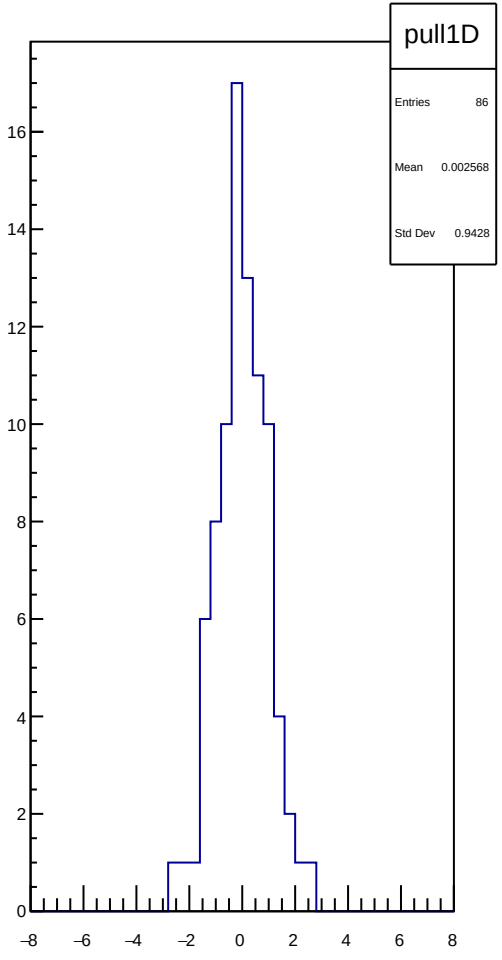

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 6861 / 85
p0 397.6 ± 0.3121
480
460
440
420
400
380
360
340

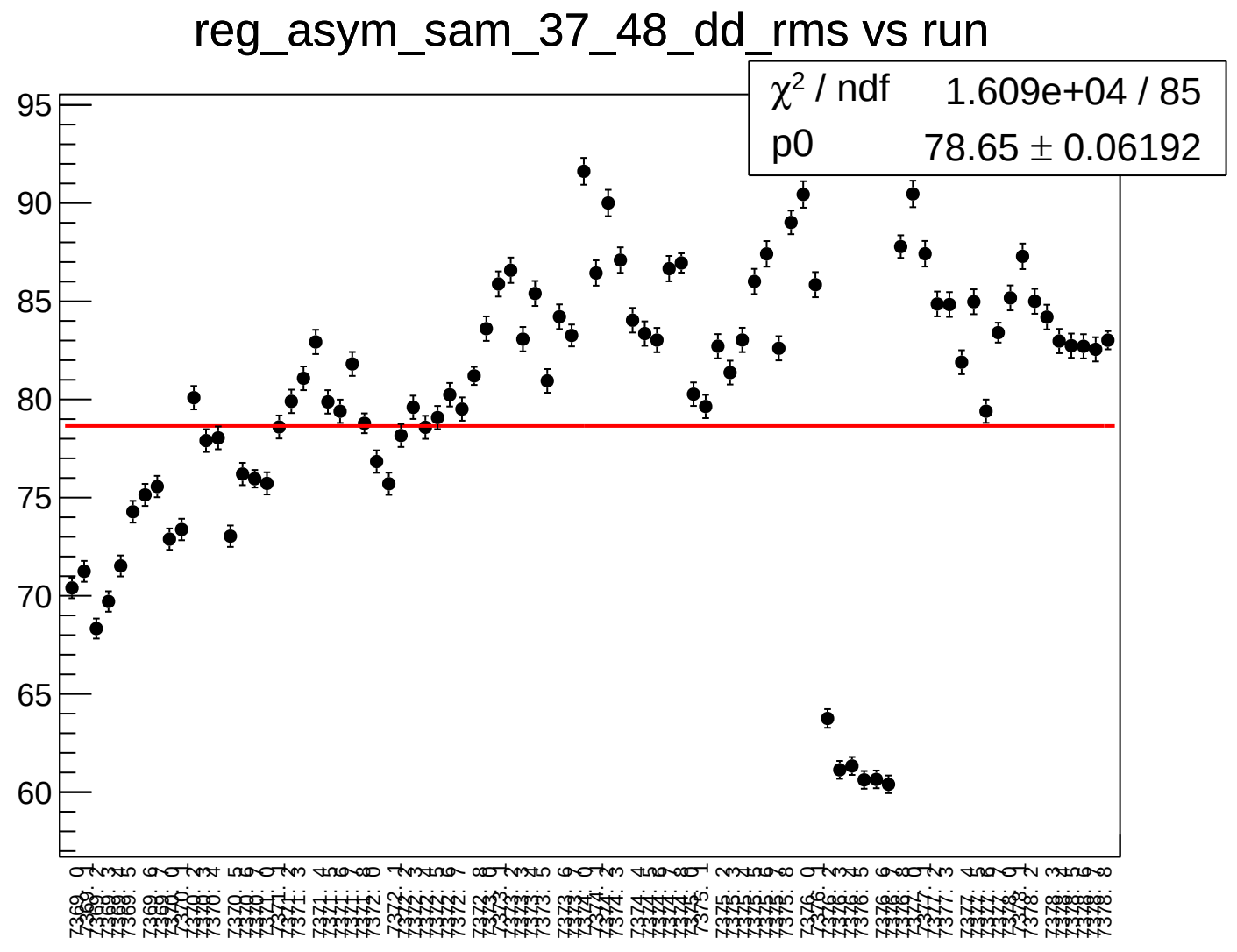

asym_sam_15_48_dd_mean vs run
χ² / ndf 83.38 / 85
p0 −9.33 ± 447.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −79.29
Std Dev 115.4
2
1
0
−1
−2

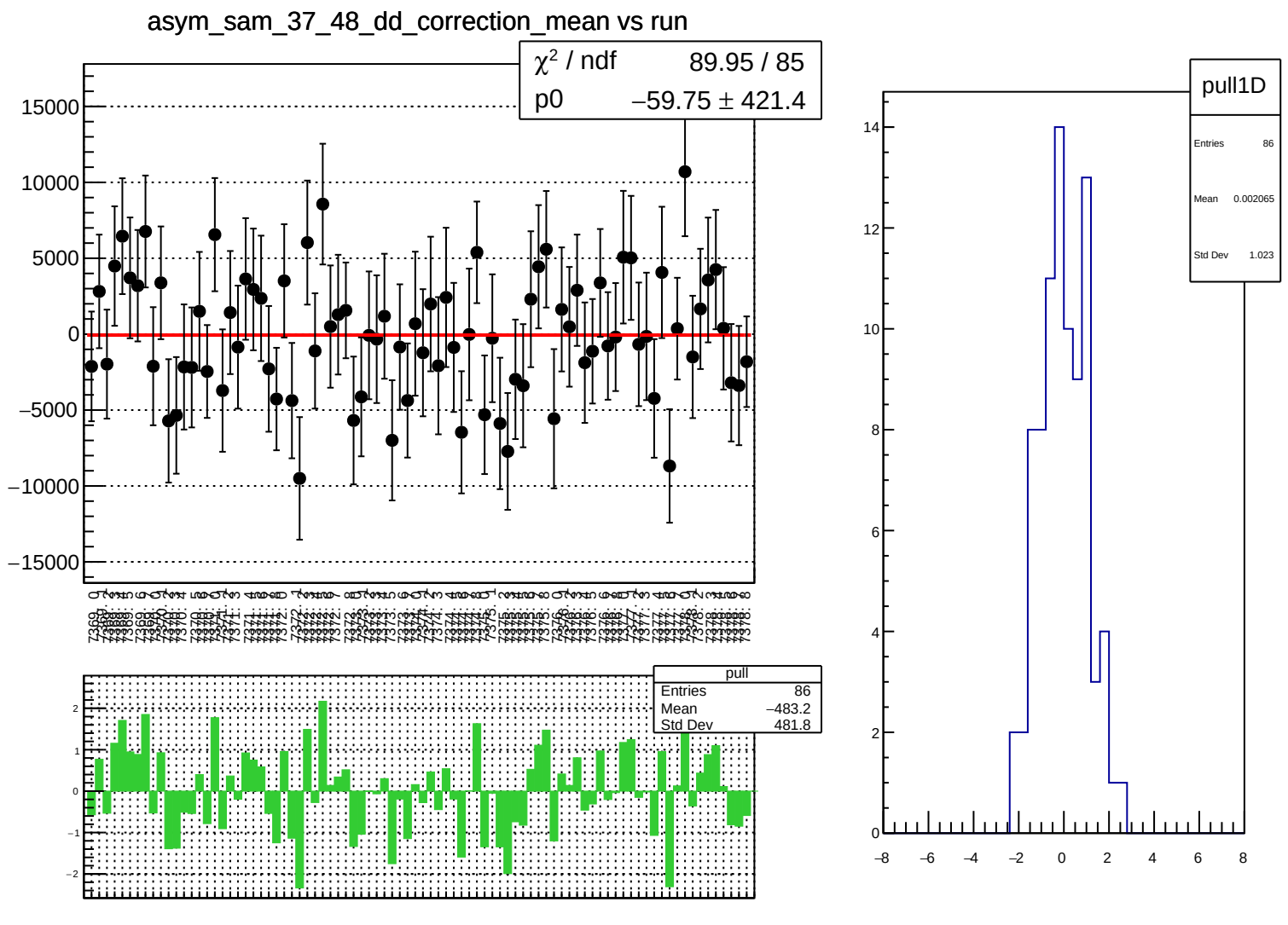

pull1D
Entries 86
Mean −0.004792
Std Dev 0.9846
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

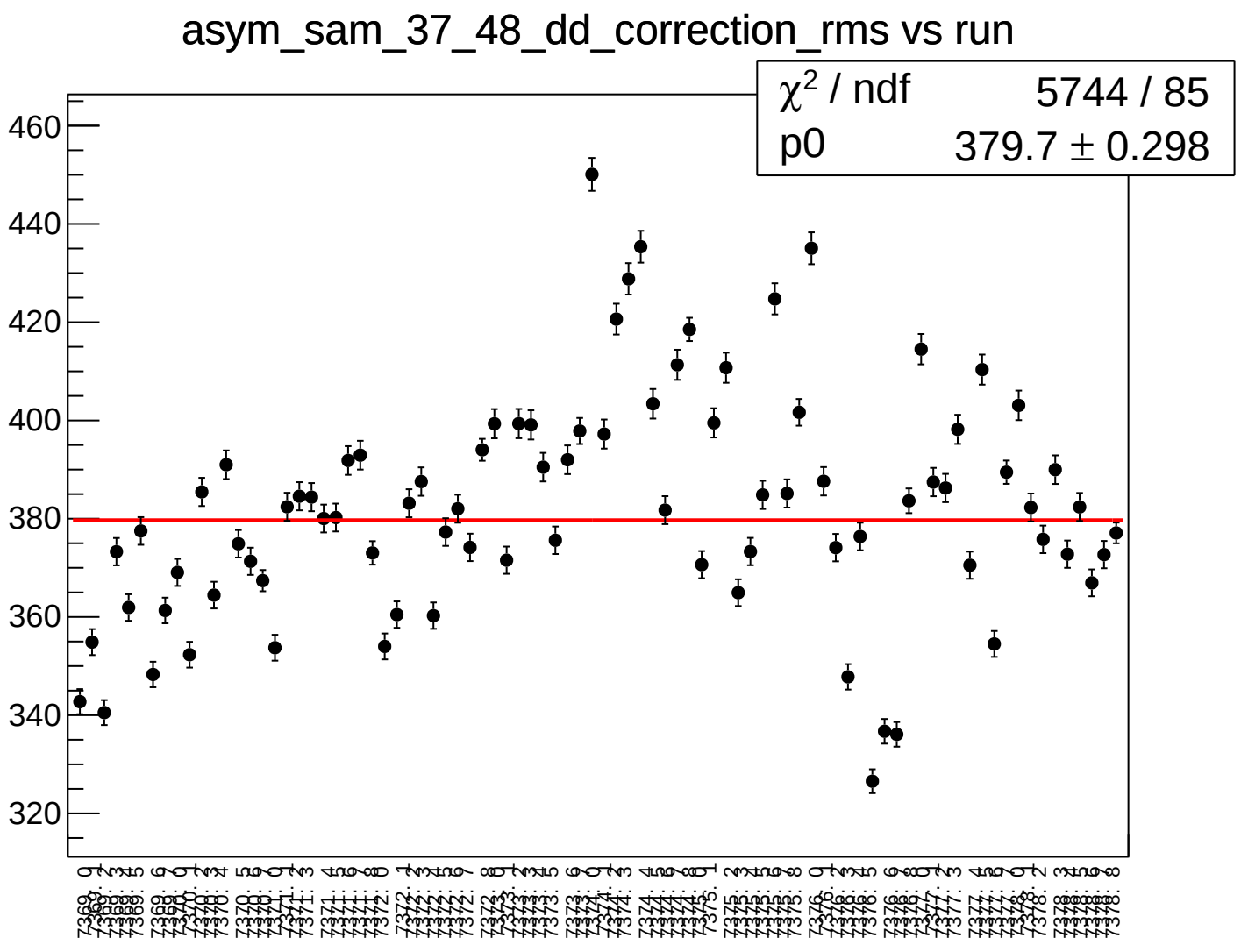

asym_sam_15_48_dd_rms vs run
χ² / ndf 7024 / 85
p0 403.2 ± 0.3165
480
460
440
420
400
380
360
340

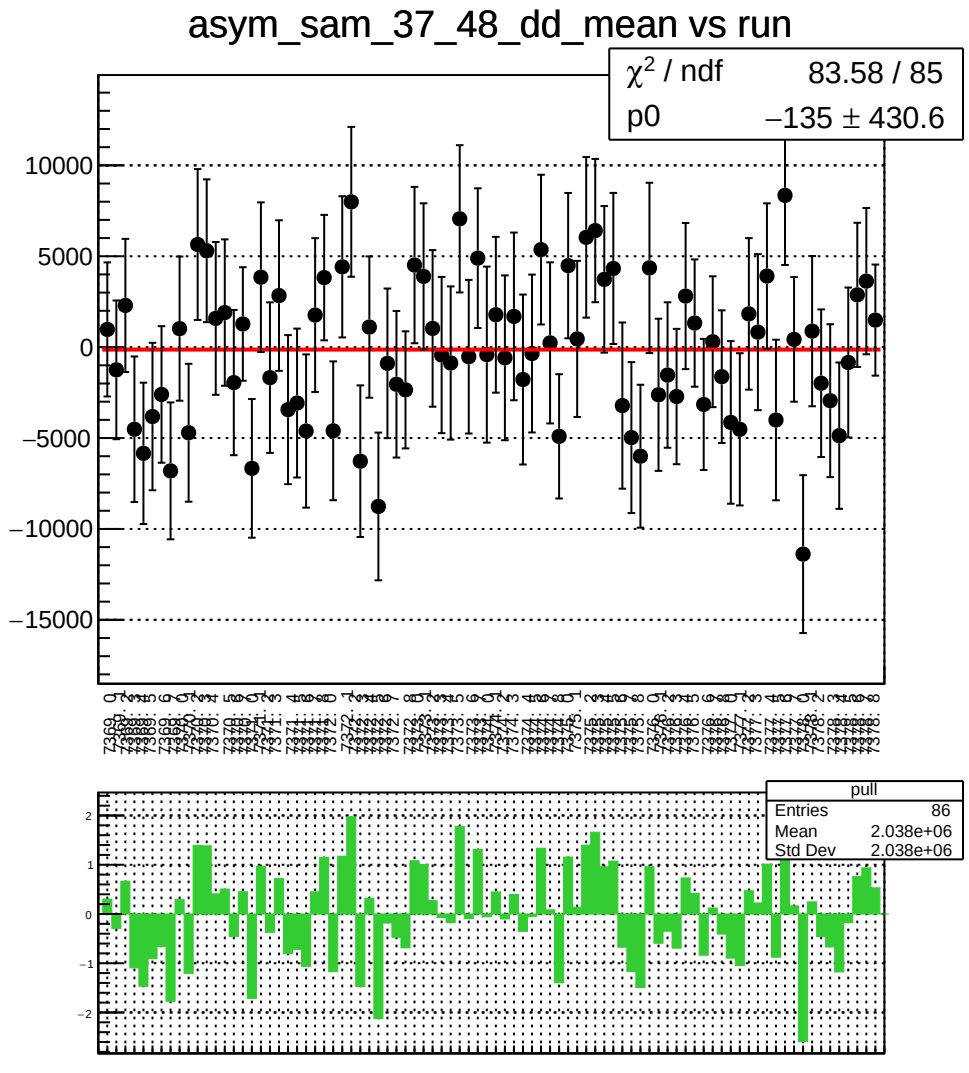

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 76.45 / 85
p0 −184.6 ± 87.57
pull
Entries 86
Mean 573.5
Std Dev 513.3

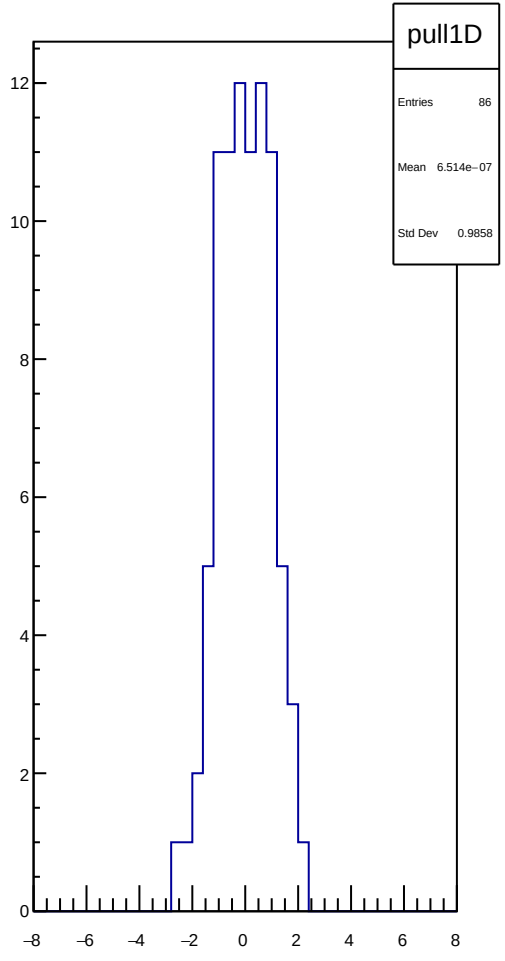

pull1D
Entries 86
Mean 0.002568
Std Dev 0.9428

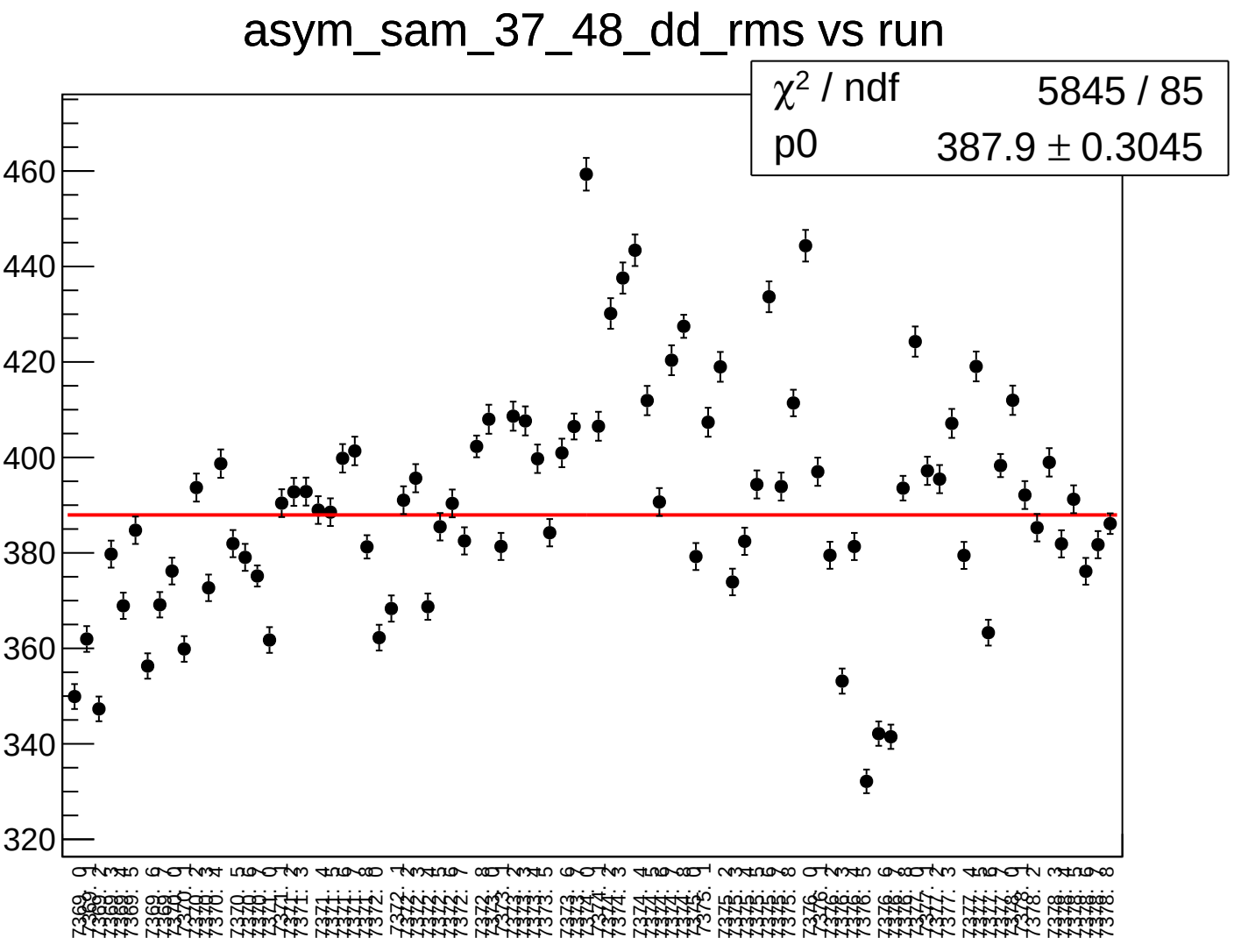

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.609e+04 / 85
p0 78.65 ± 0.06192
95
90
85
80
75
70
65
60

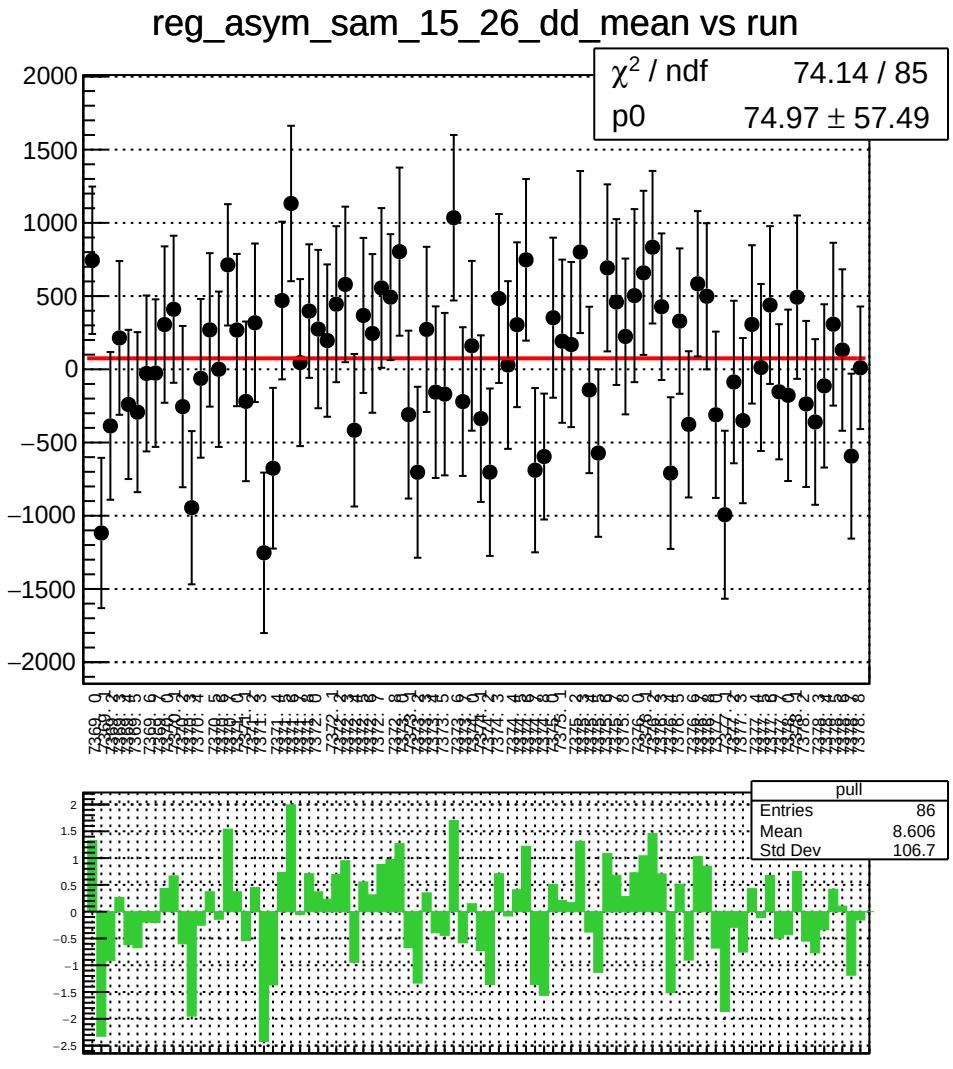

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 89.95 / 85
p0 −59.75 ± 421.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −483.2
Std Dev 481.8
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.002065
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

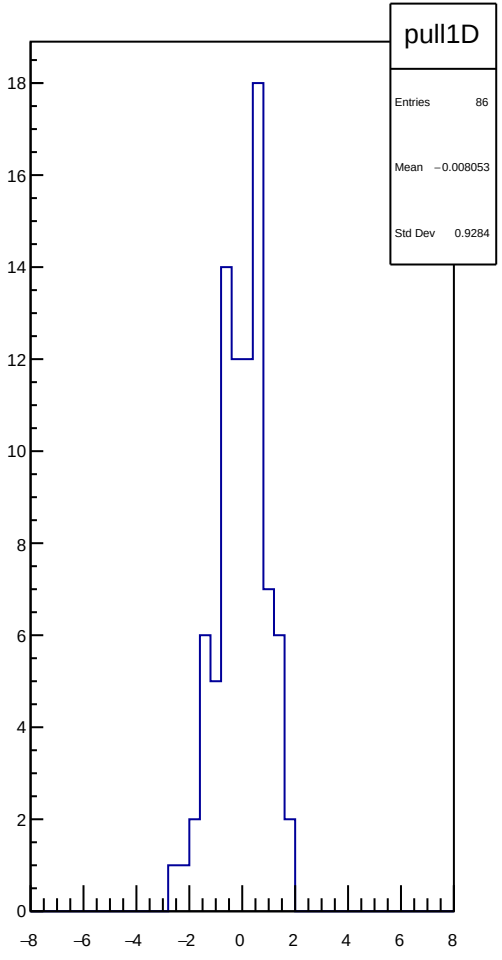

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 5744 / 85
p0 379.7 ± 0.298
460
440
420
400
380
360
340
320

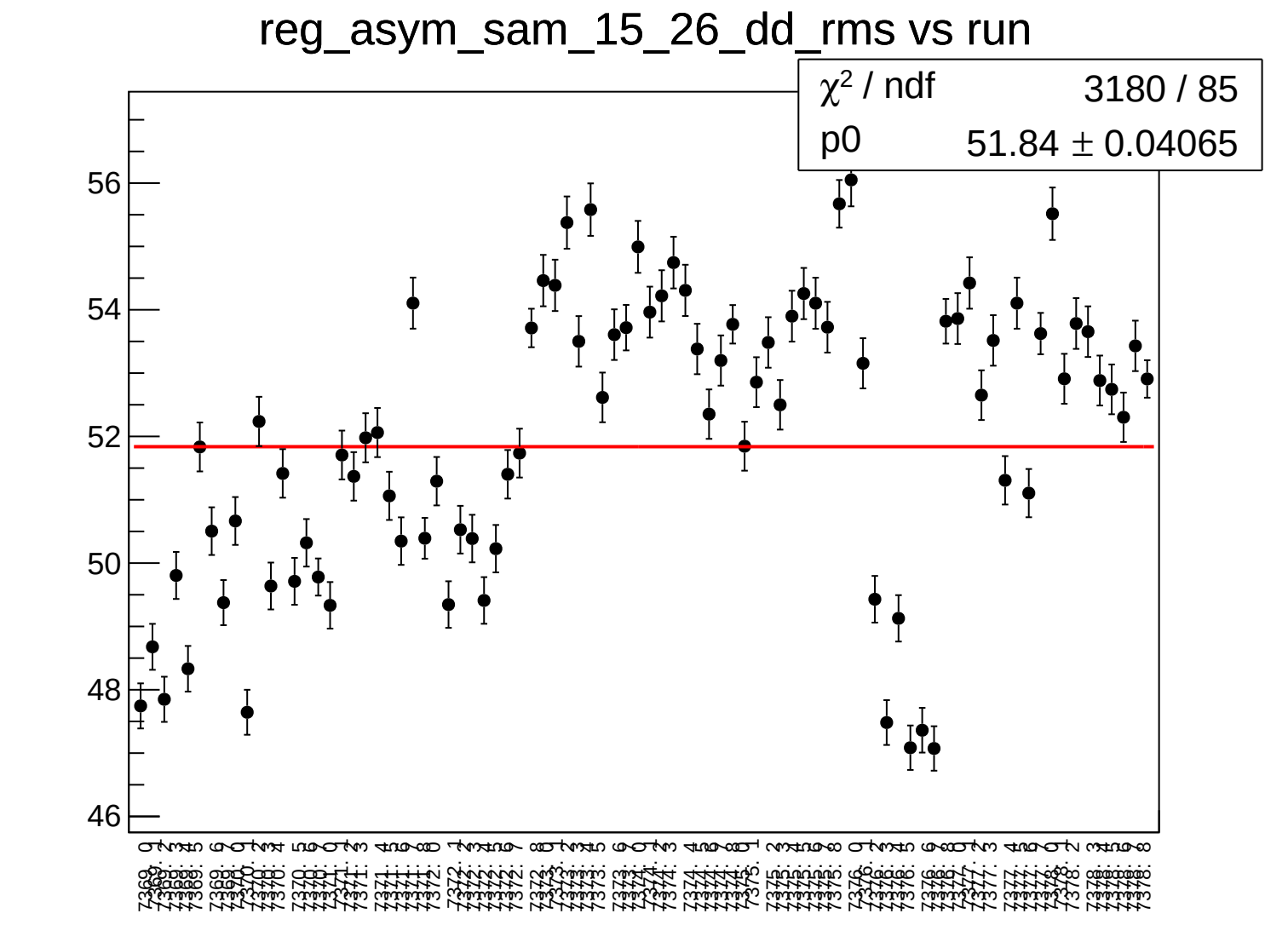

asym_sam_37_48_dd_mean vs run
χ² / ndf 83.58 / 85
p0 −135 ± 430.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 2.038e+06
Std Dev 2.038e+06
2
1
0
−1
−2

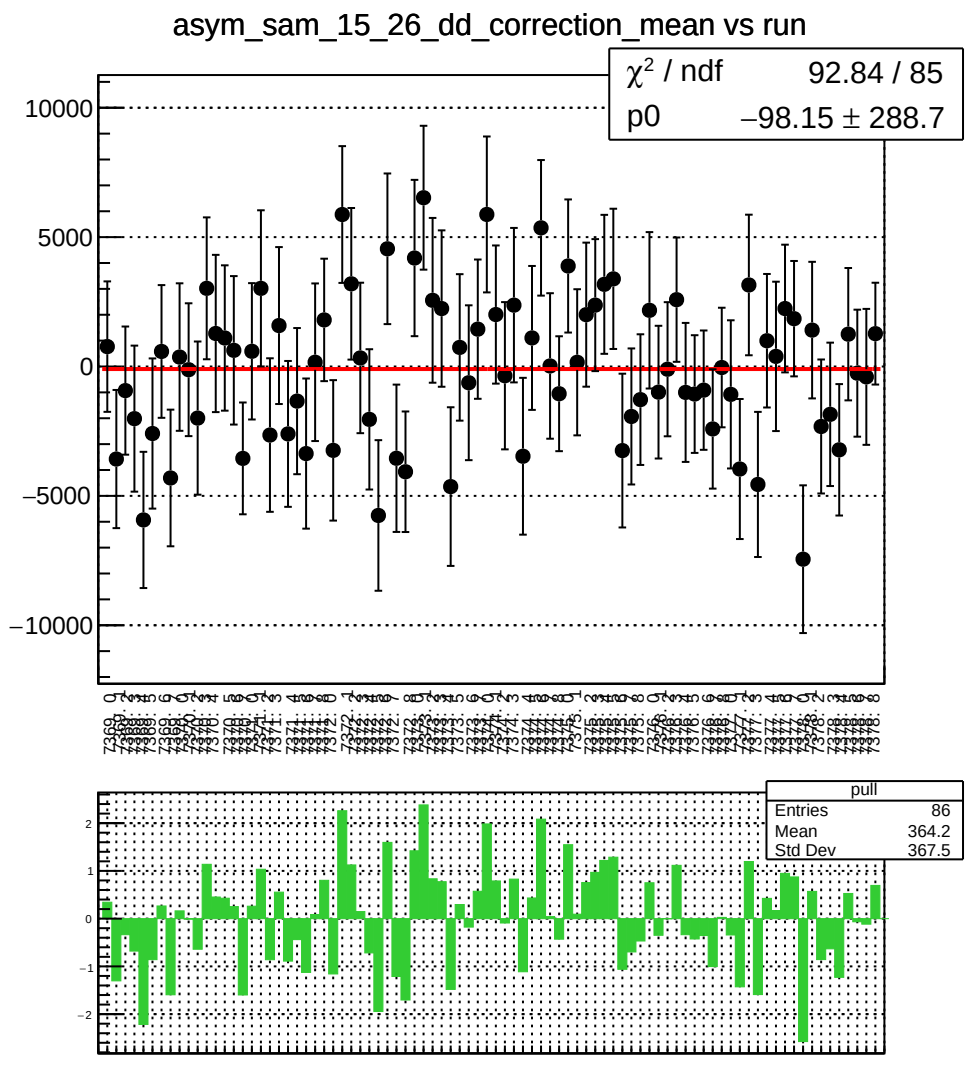

pull1D
Entries 86
Mean 6.514e−07
Std Dev 0.9858
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

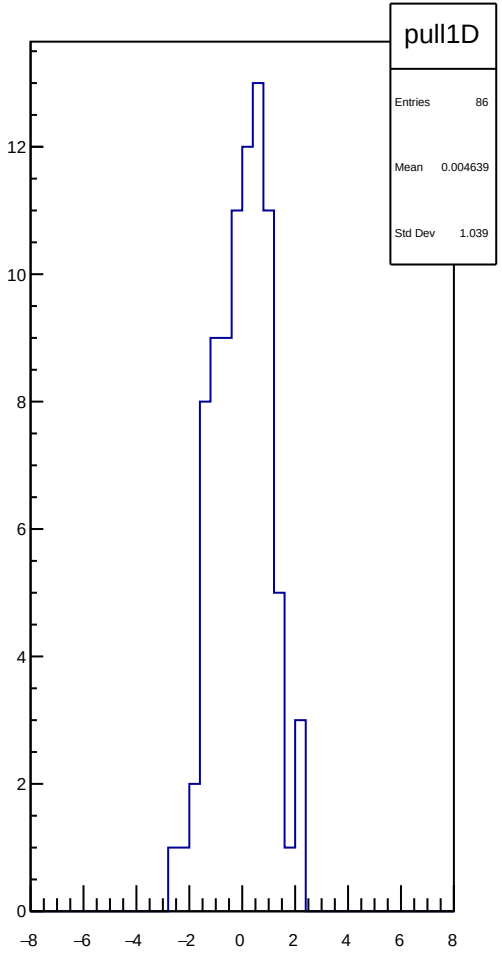

asym_sam_37_48_dd_rms vs run
χ² / ndf 5845 / 85
p0 387.9 ± 0.3045
460
440
420
400
380
360
340
320

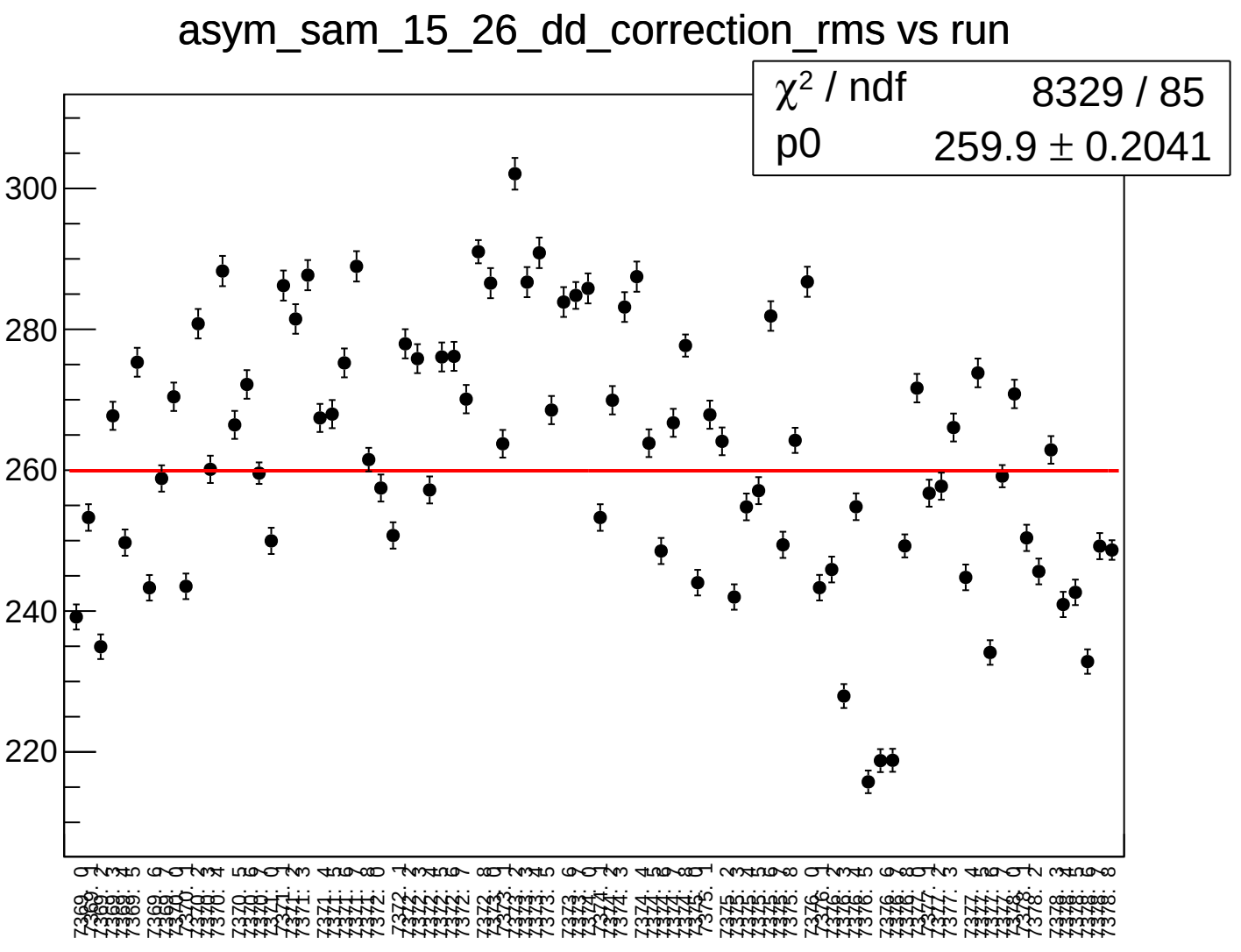

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 74.14 / 85
p0 74.97 ± 57.49
pull
Entries 86
Mean 8.606
Std Dev 106.7

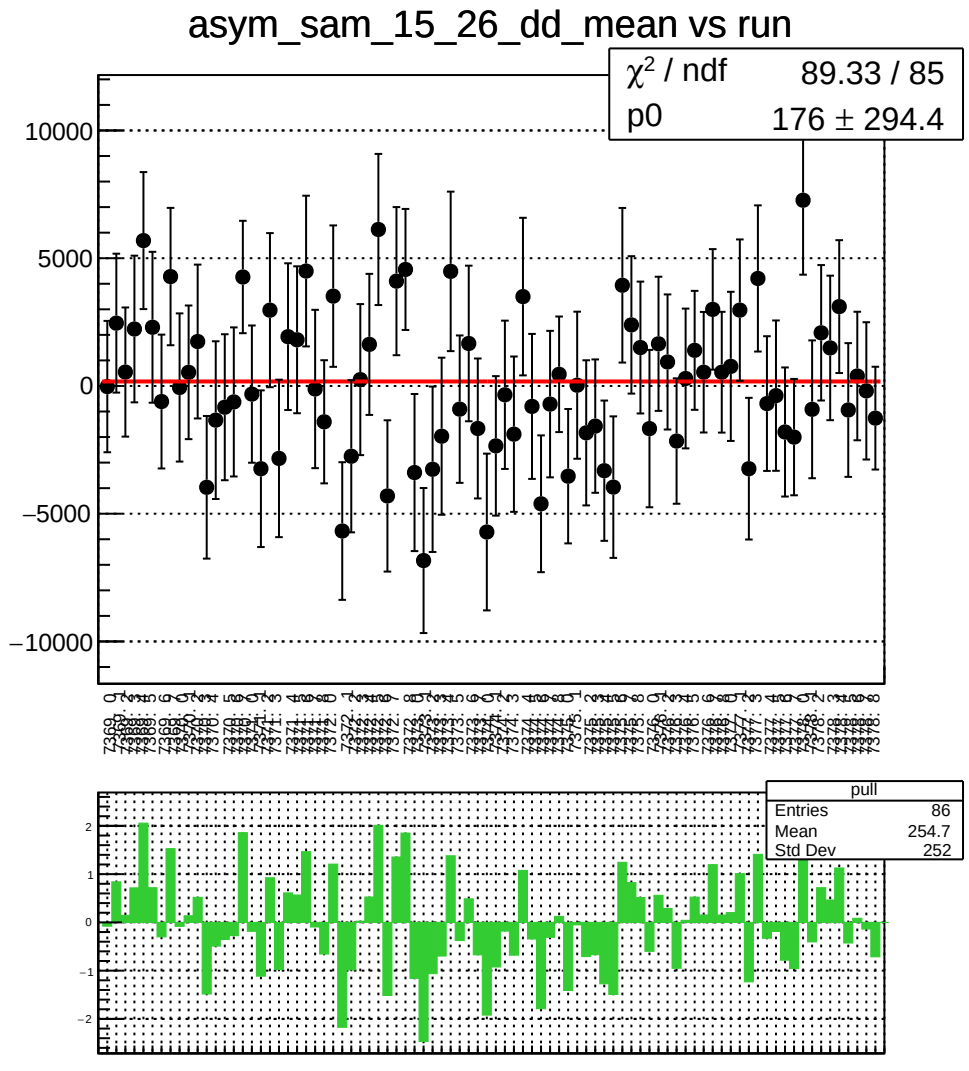

pull1D
Entries 86
Mean −0.008053
Std Dev 0.9284

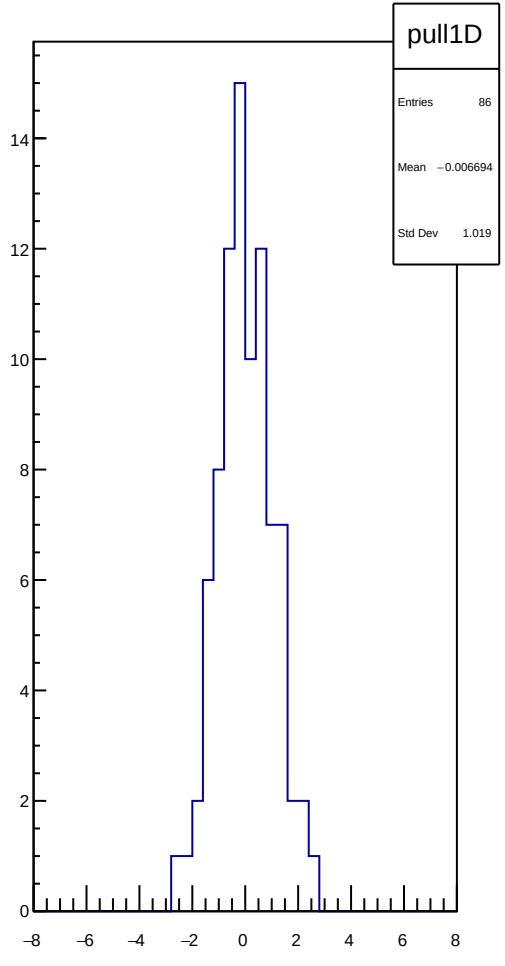

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 3180 / 85
p0 51.84 ± 0.04065
56
54
52
50
48
46

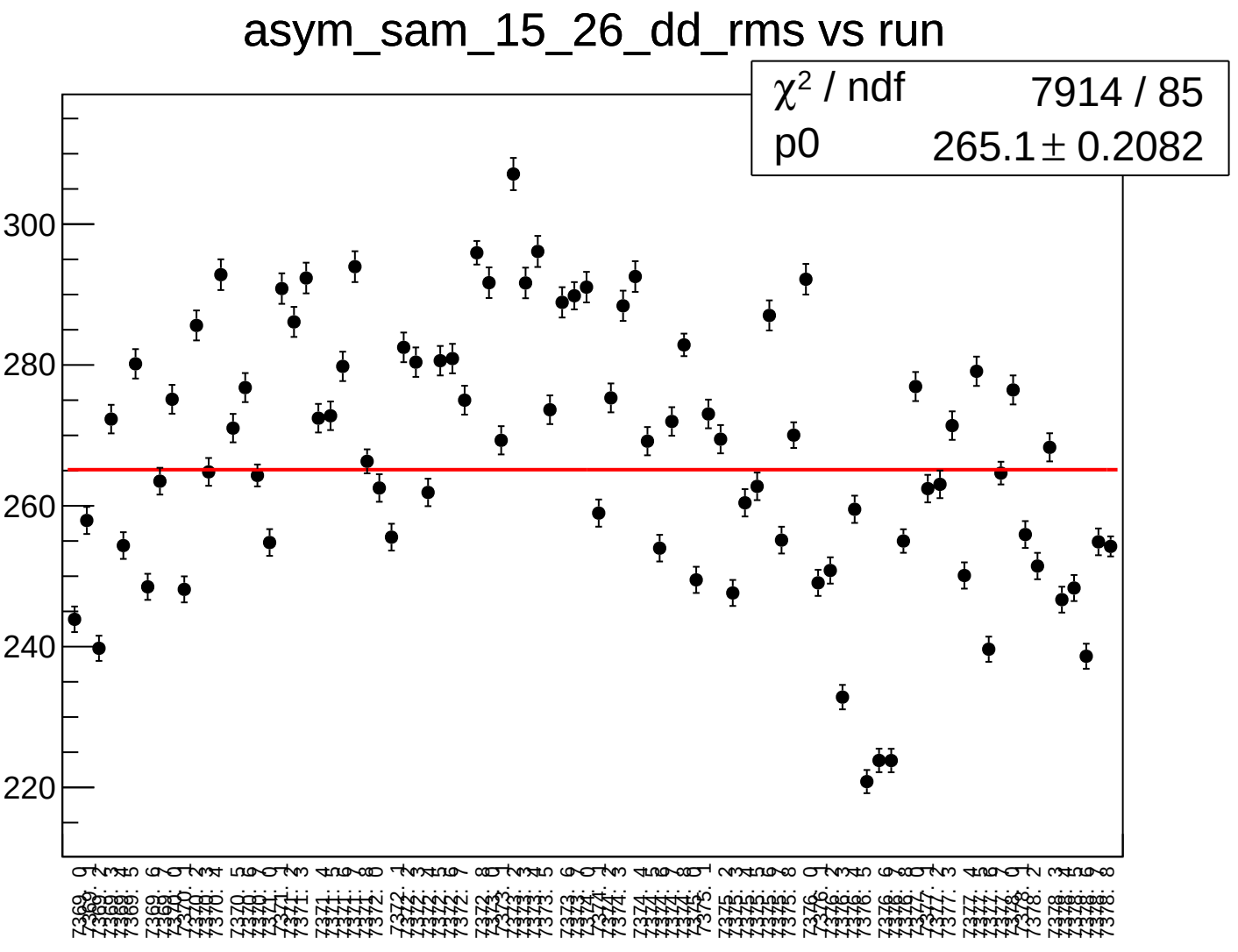

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 92.84 / 85
p0 −98.15 ± 288.7
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 364.2
Std Dev 367.5
2
1
0
−1
−2

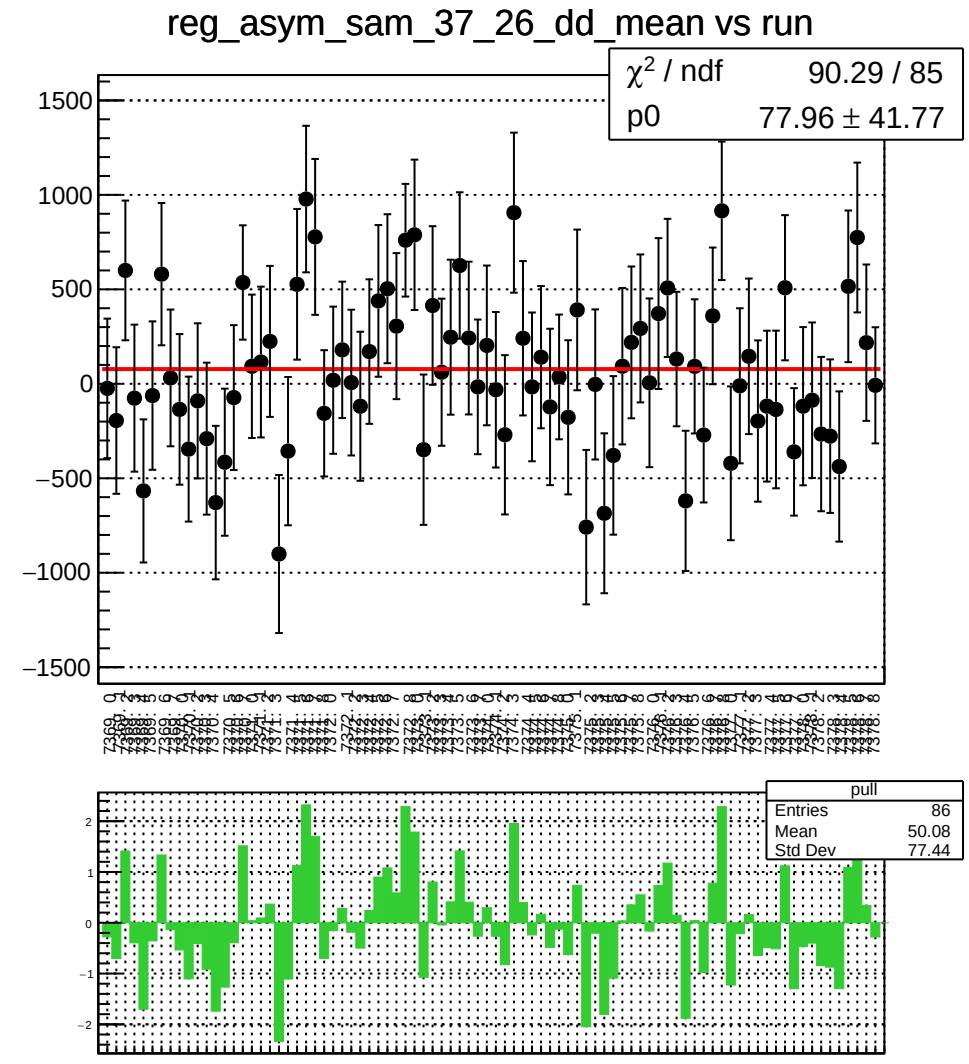

pull1D
Entries 86
Mean 0.004639
Std Dev 1.039
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

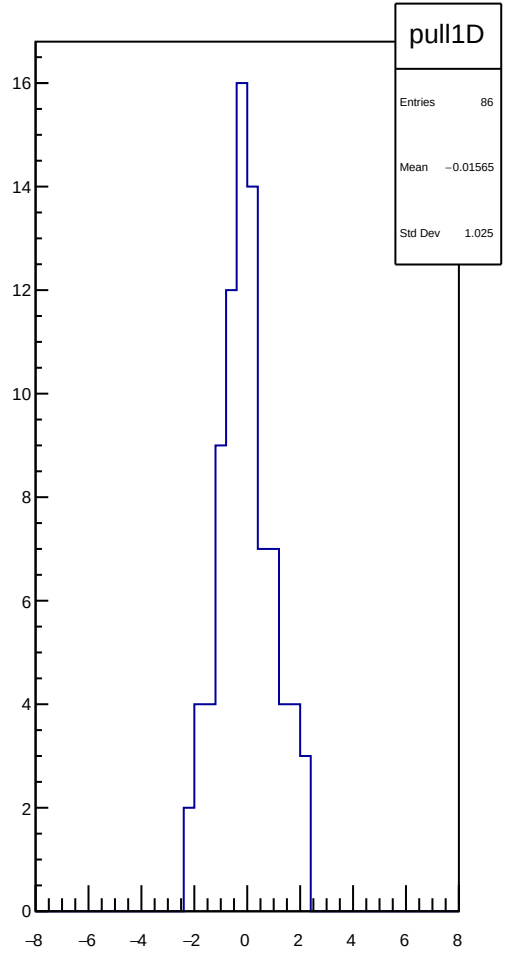

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 8329 / 85
p0 259.9 ± 0.2041
300
280
260
240
220

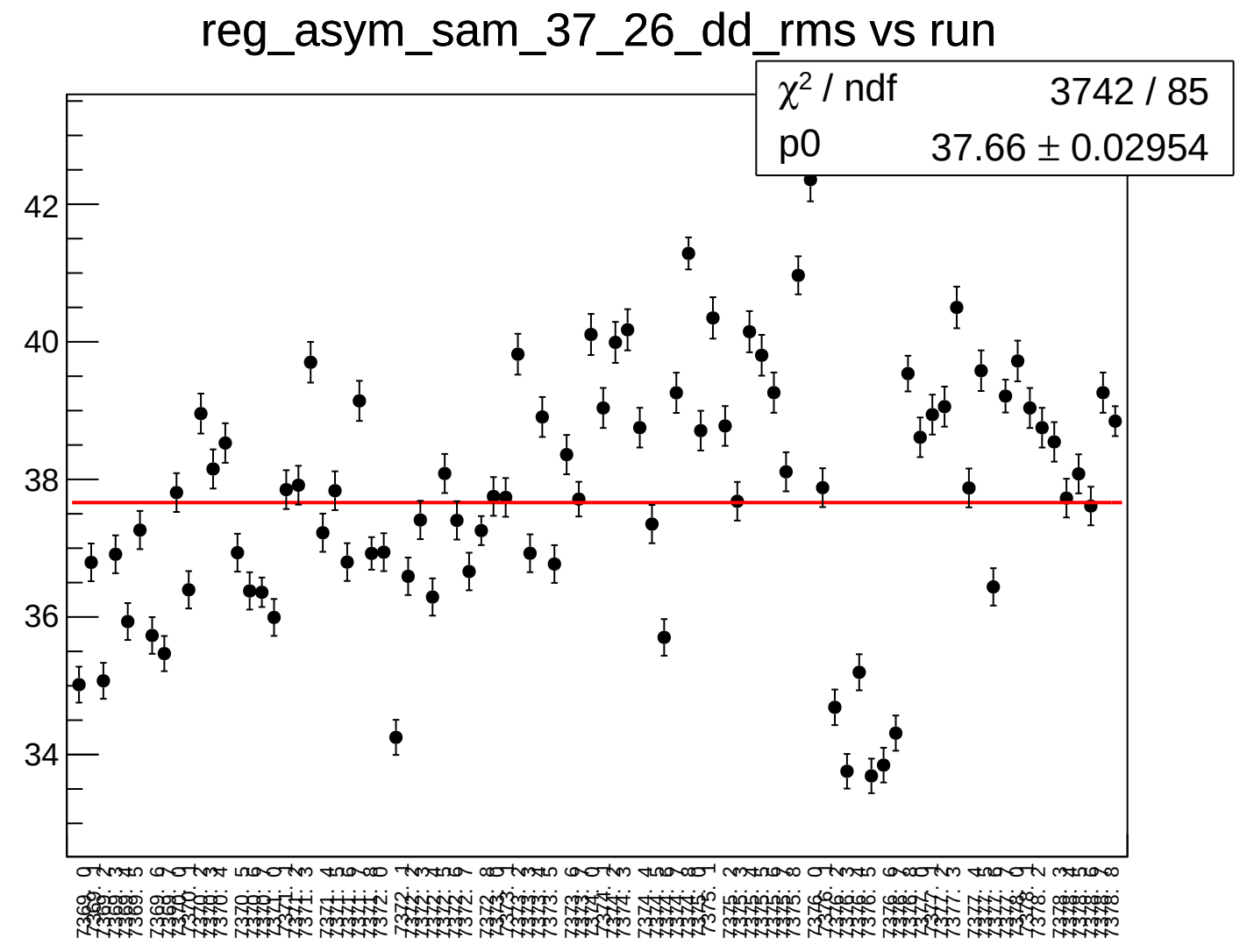

asym_sam_15_26_dd_mean vs run
χ² / ndf 89.33 / 85
p0 176 ± 294.4
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 254.7
Std Dev 252
2
1
0
−1
−2

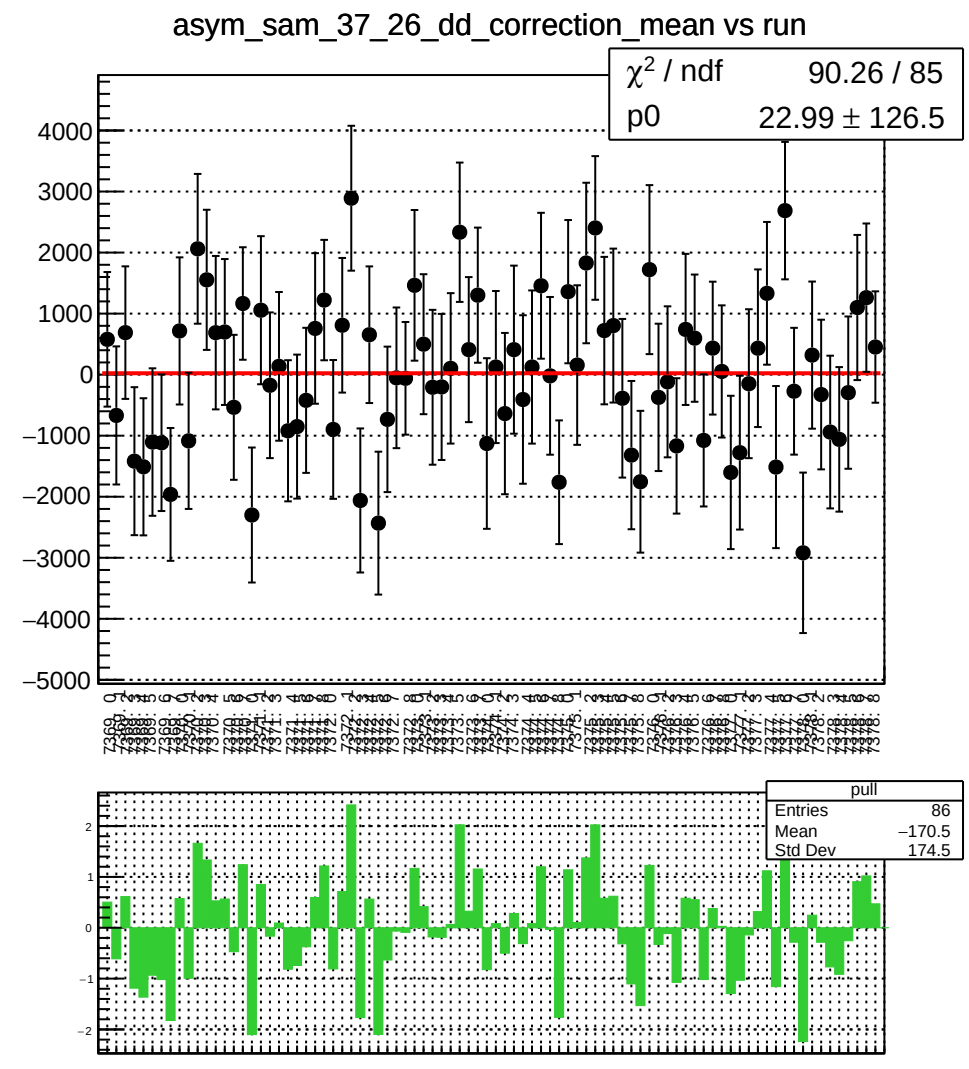

pull1D
Entries 86
Mean −0.006694
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

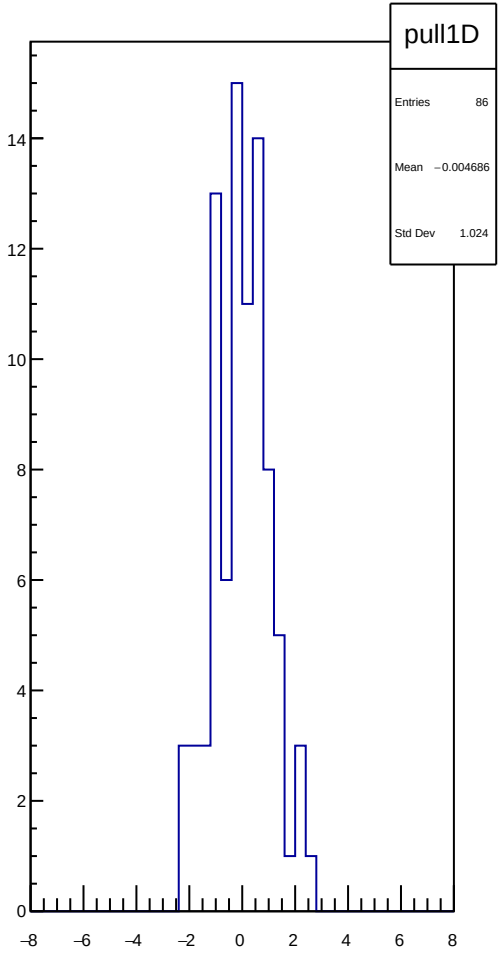

asym_sam_15_26_dd_rms vs run
χ² / ndf 7914 / 85
p0 265.1 ± 0.2082
300
280
260
240
220

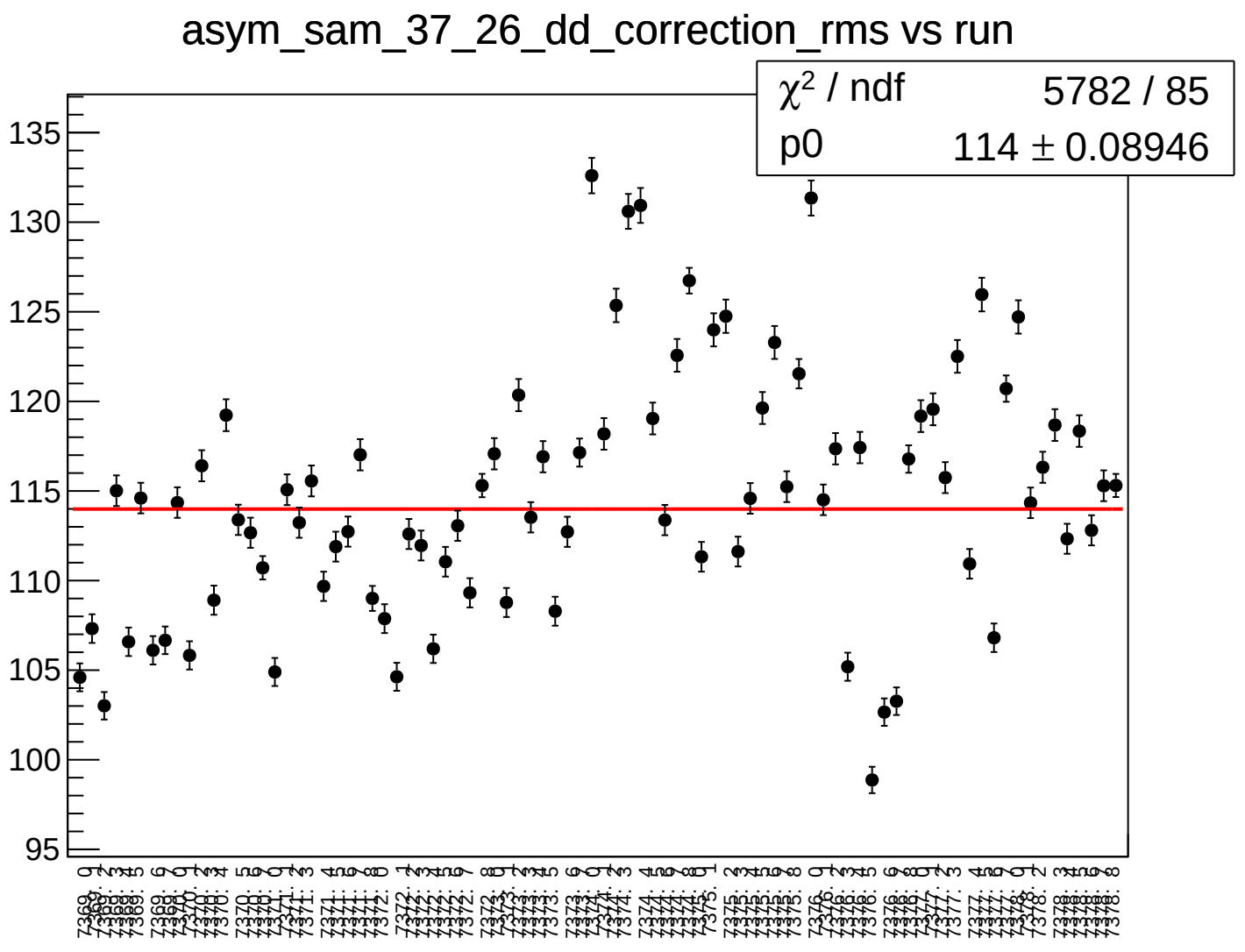

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 90.29 / 85
p0 77.96 ± 41.77
1500
1000
500
0
−500
−1000
−1500
pull
Entries 86
Mean 50.08
Std Dev 77.44
2
1
0
−1
−2

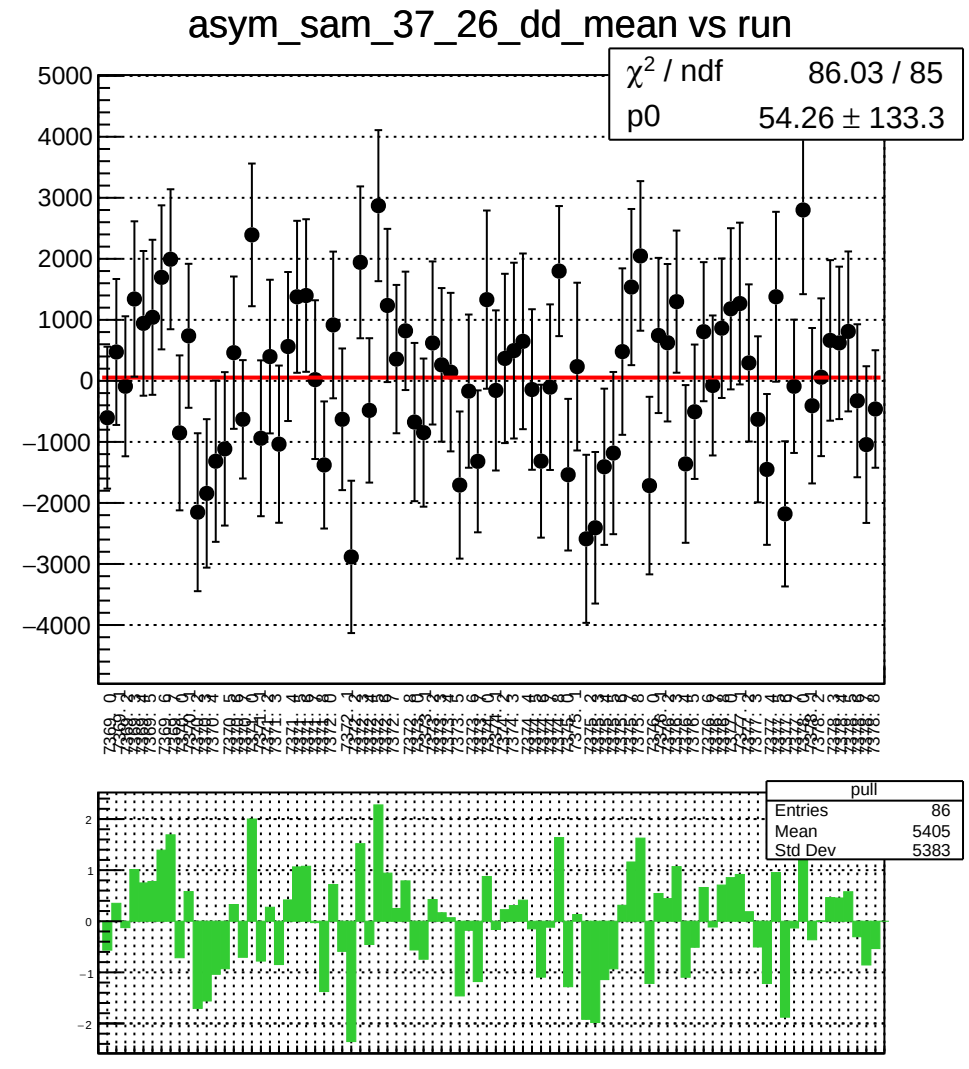

pull1D
Entries 86
Mean −0.01565
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

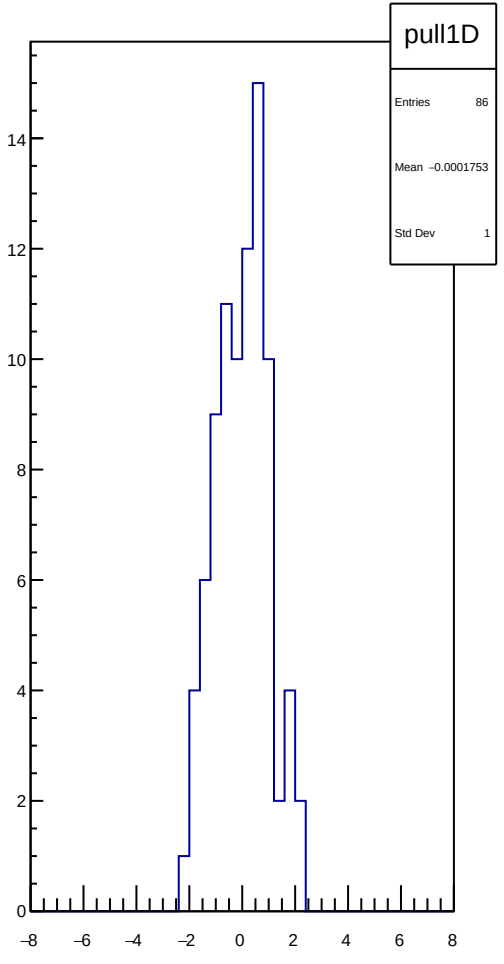

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 3742 / 85
p0 37.66 ± 0.02954
42
40
38
36
34

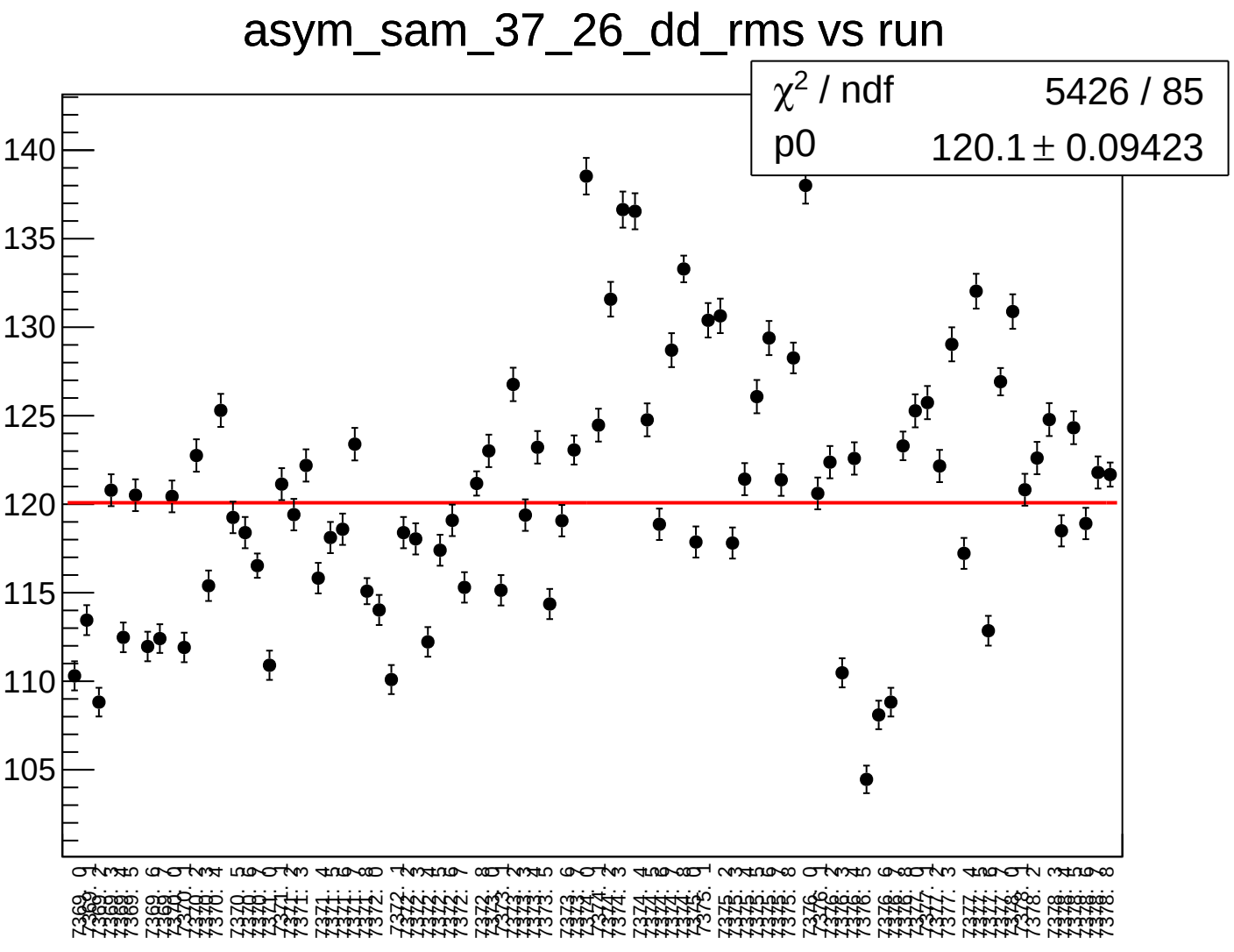

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 90.26 / 85
p0 22.99 ± 126.5
pull
Entries 86
Mean −170.5
Std Dev 174.5

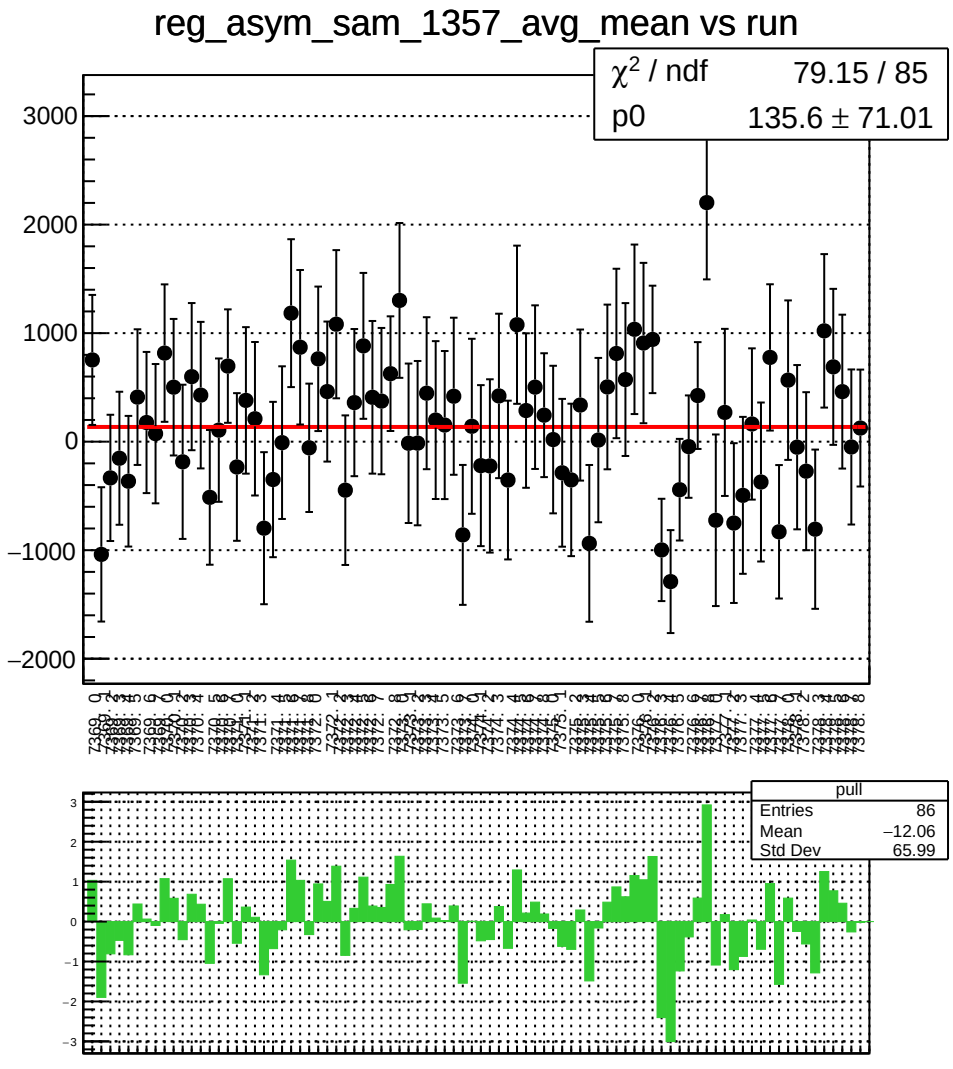

pull1D
Entries 86
Mean −0.004686
Std Dev 1.024

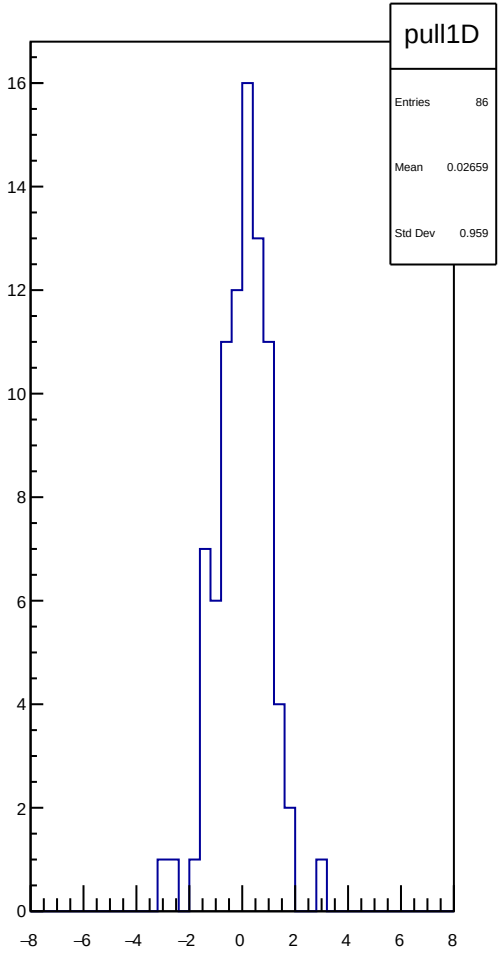

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 5782 / 85
p0 114 ± 0.08946
135
130
125
120
115
110
105
100
95

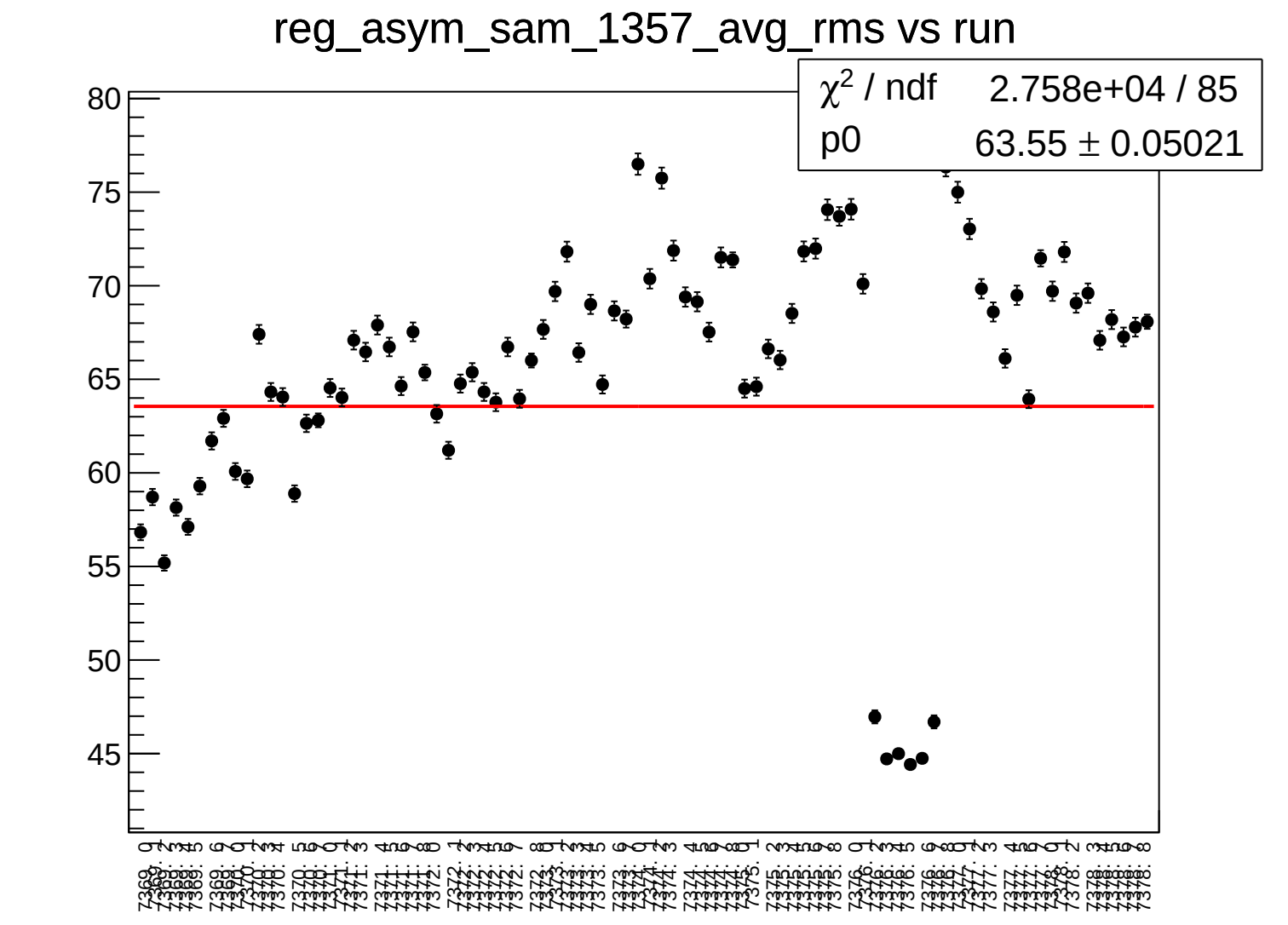

asym_sam_37_26_dd_mean vs run
χ² / ndf 86.03 / 85
p0 54.26 ± 133.3
pull
Entries 86
Mean 5405
Std Dev 5383

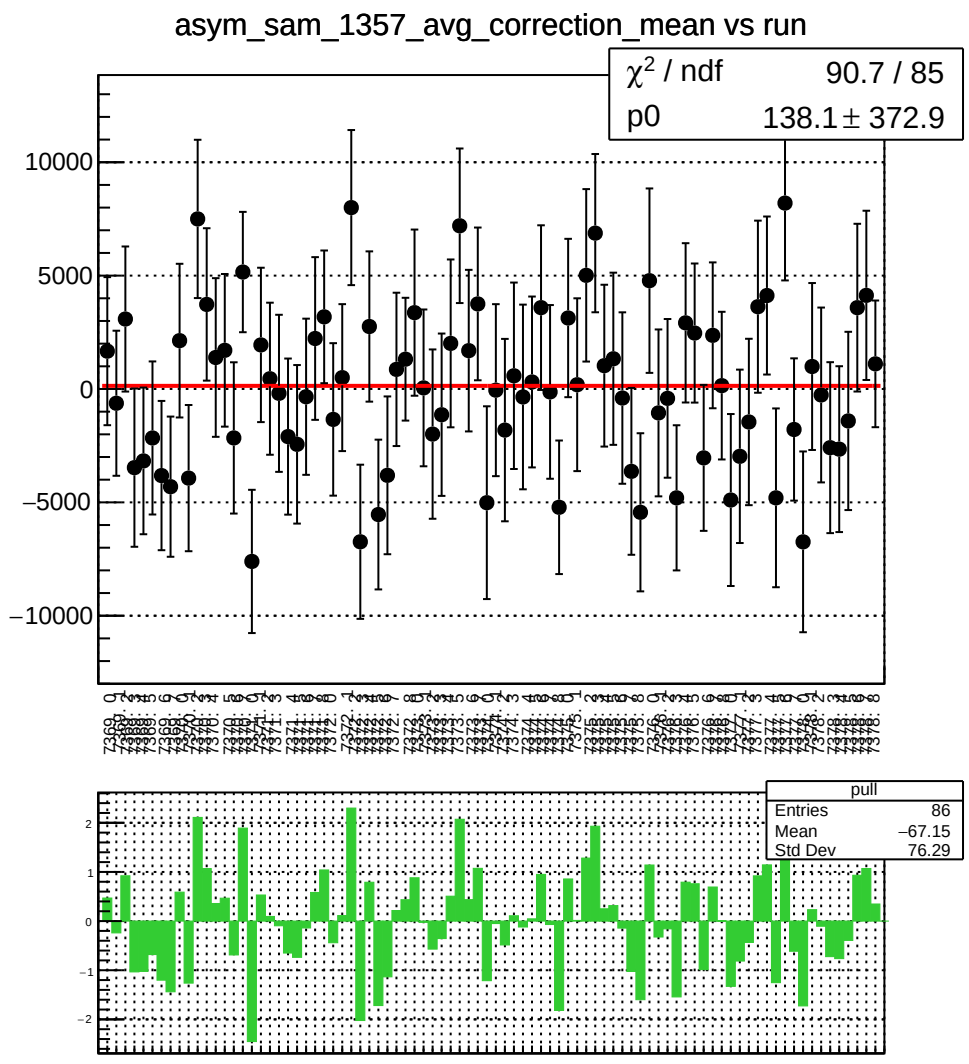

pull1D
Entries 86
Mean −0.0001753
Std Dev 1

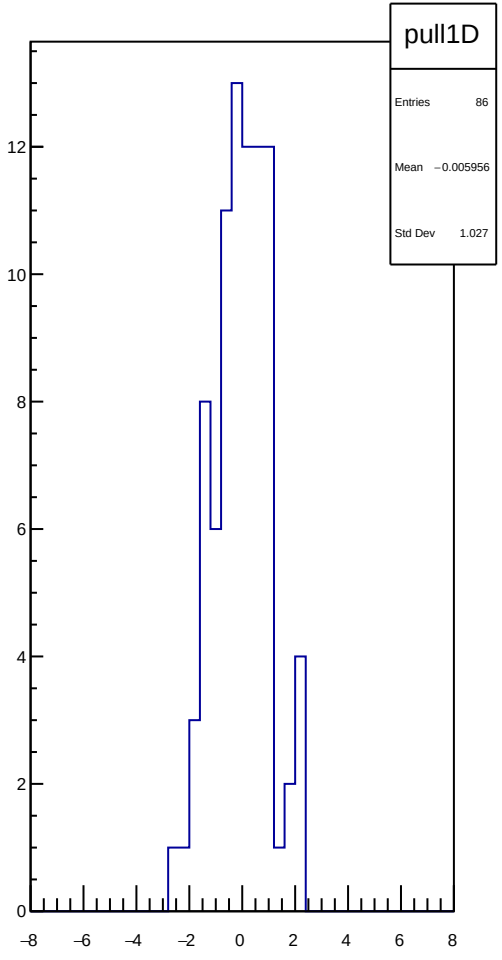

asym_sam_37_26_dd_rms vs run
χ² / ndf 5426 / 85
p0 120.1 ± 0.09423
140
135
130
125
120
115
110
105

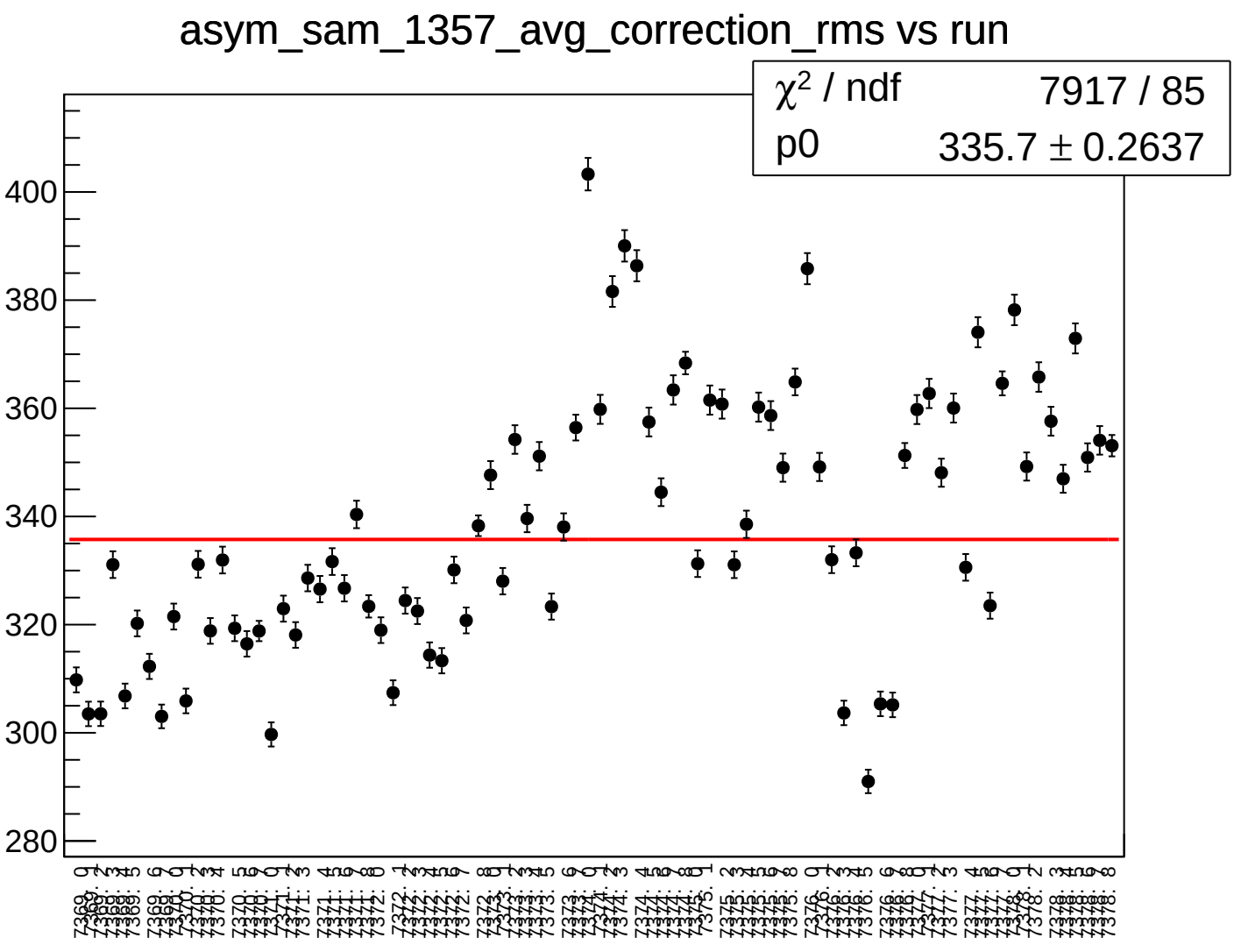

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 79.15 / 85
p0 135.6 ± 71.01
pull
Entries 86
Mean −12.06
Std Dev 65.99

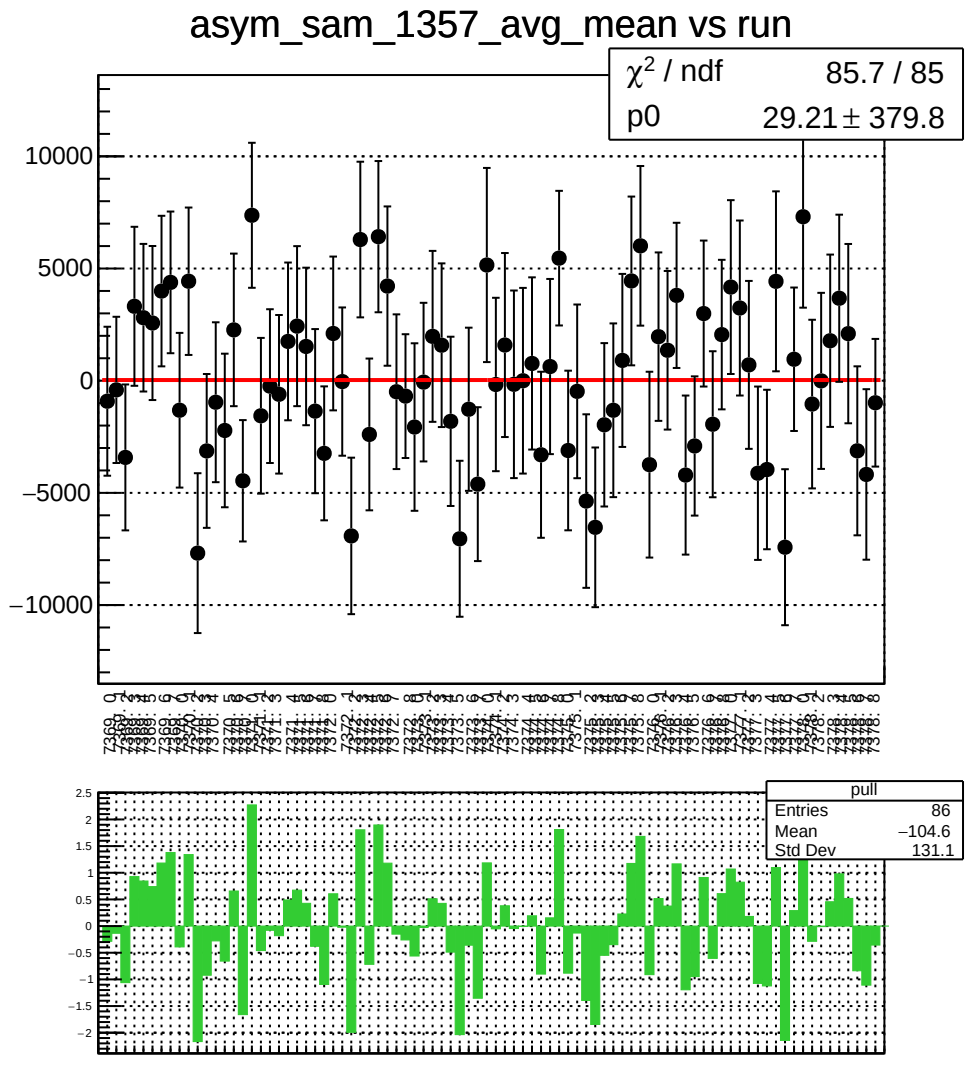

pull1D
Entries 86
Mean 0.02659
Std Dev 0.959

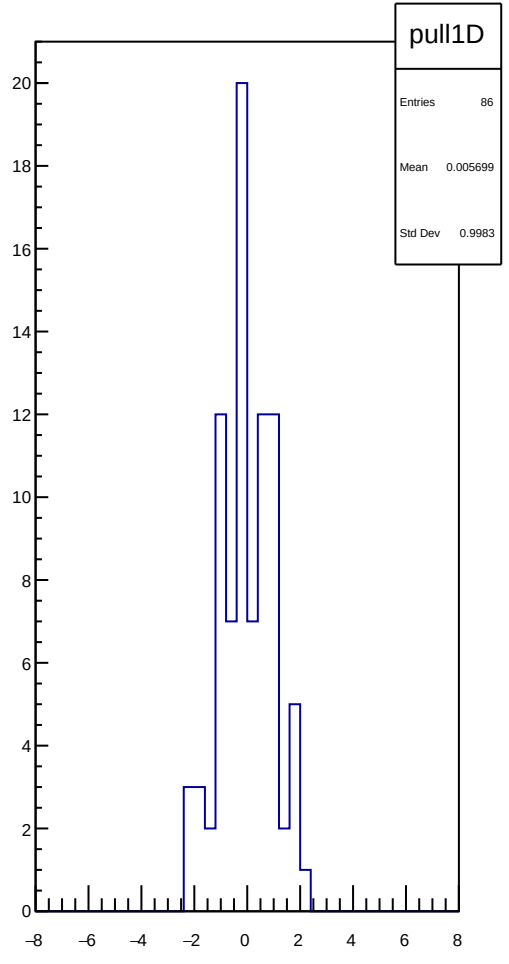

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.758e+04 / 85
p0 63.55 ± 0.05021
80
75
70
65
60
55
50
45

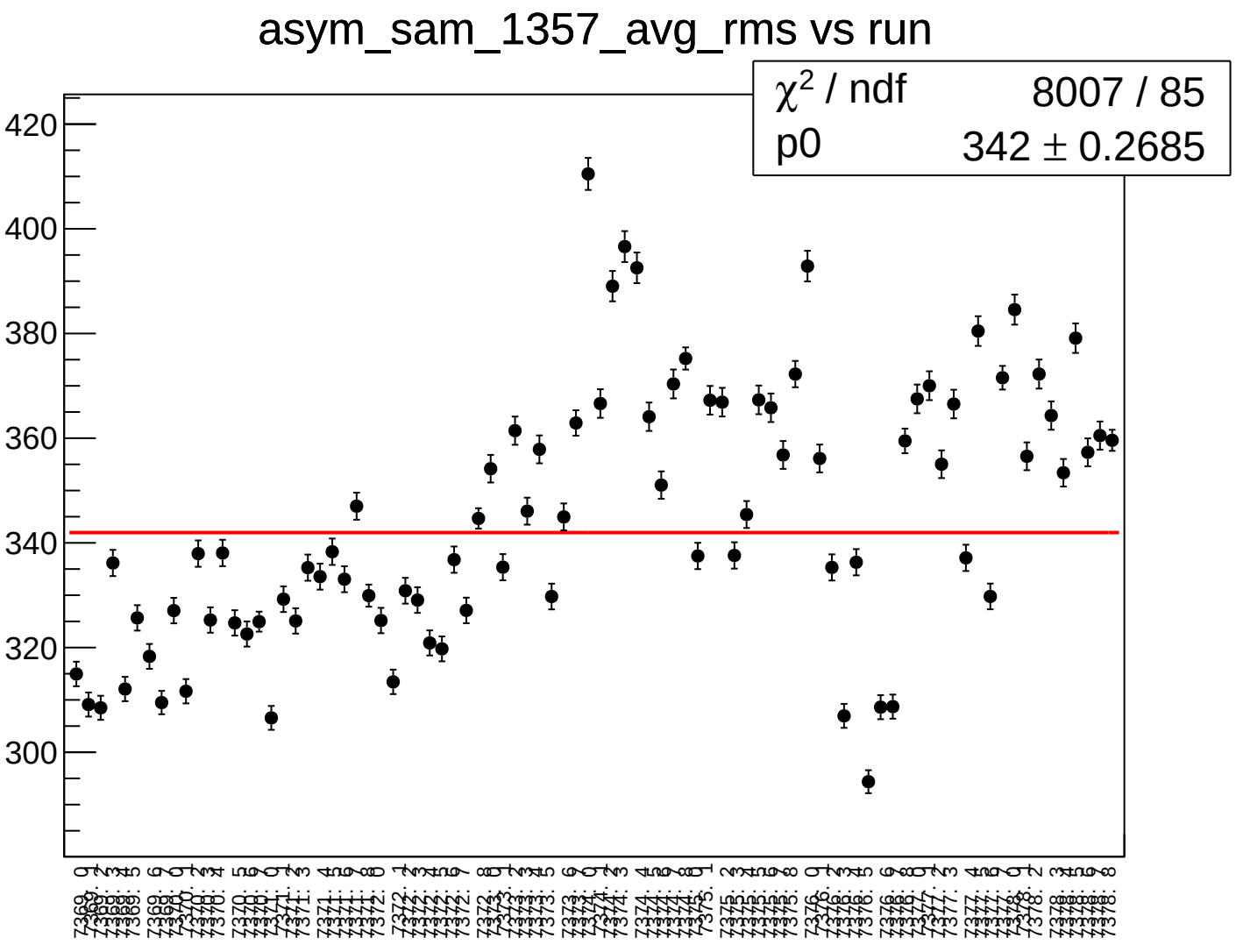

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 90.7 / 85
p0 138.1 ± 372.9
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −67.15
Std Dev 76.29
2
1
0
−1
−2

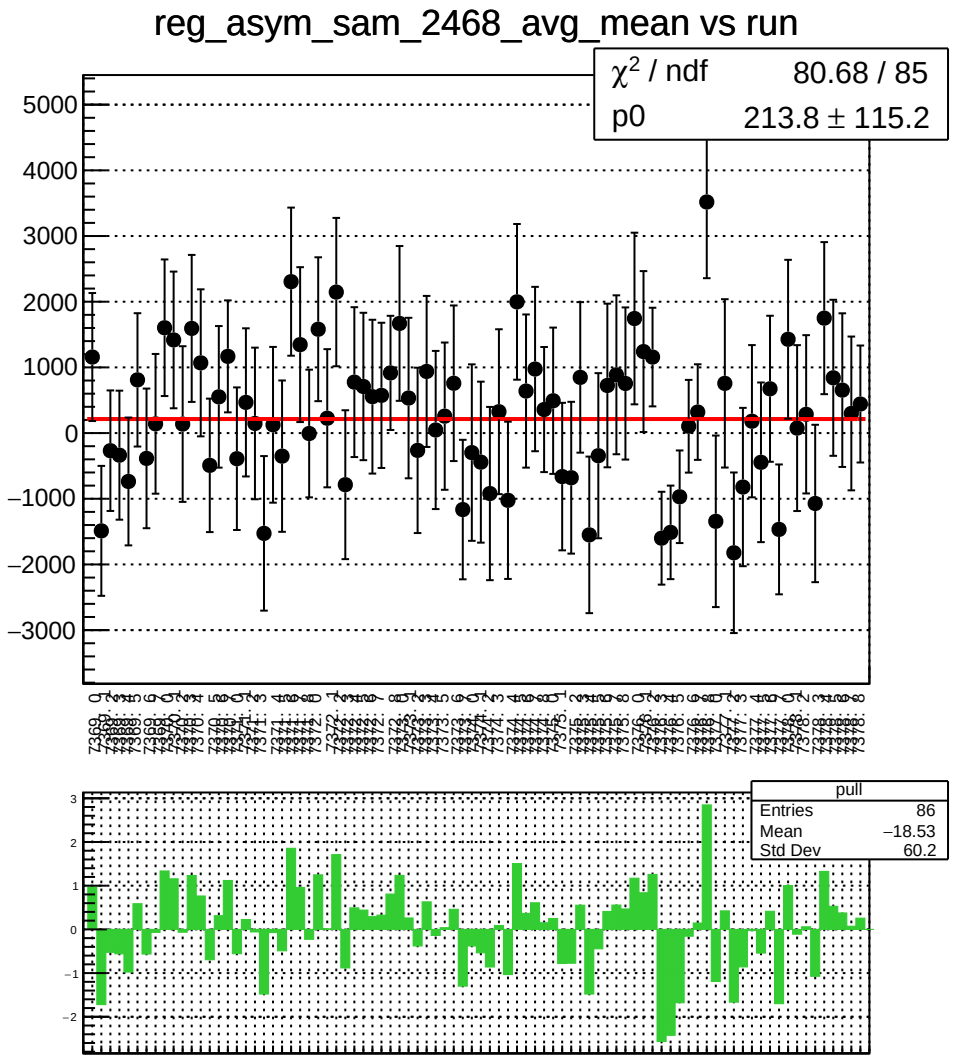

pull1D
Entries 86
Mean −0.005956
Std Dev 1.027
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

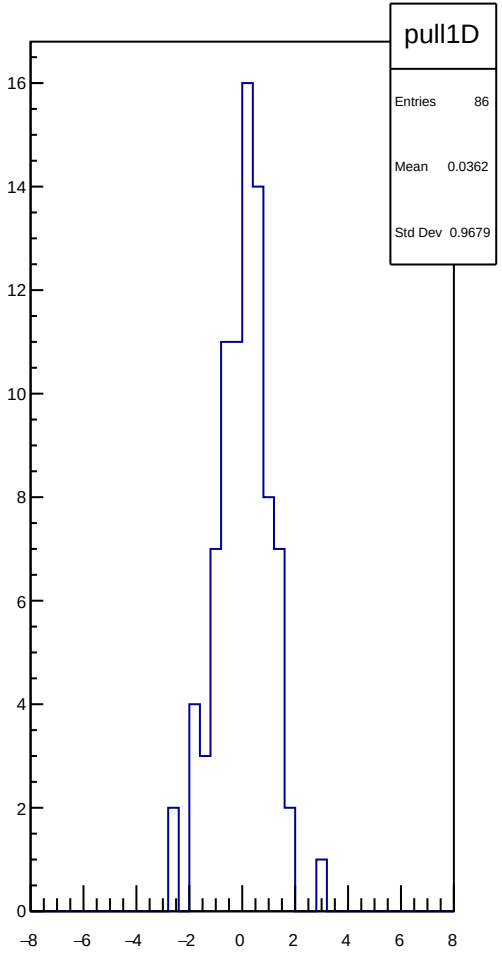

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 7917 / 85
p0 335.7 ± 0.2637
400
380
360
340
320
300
280

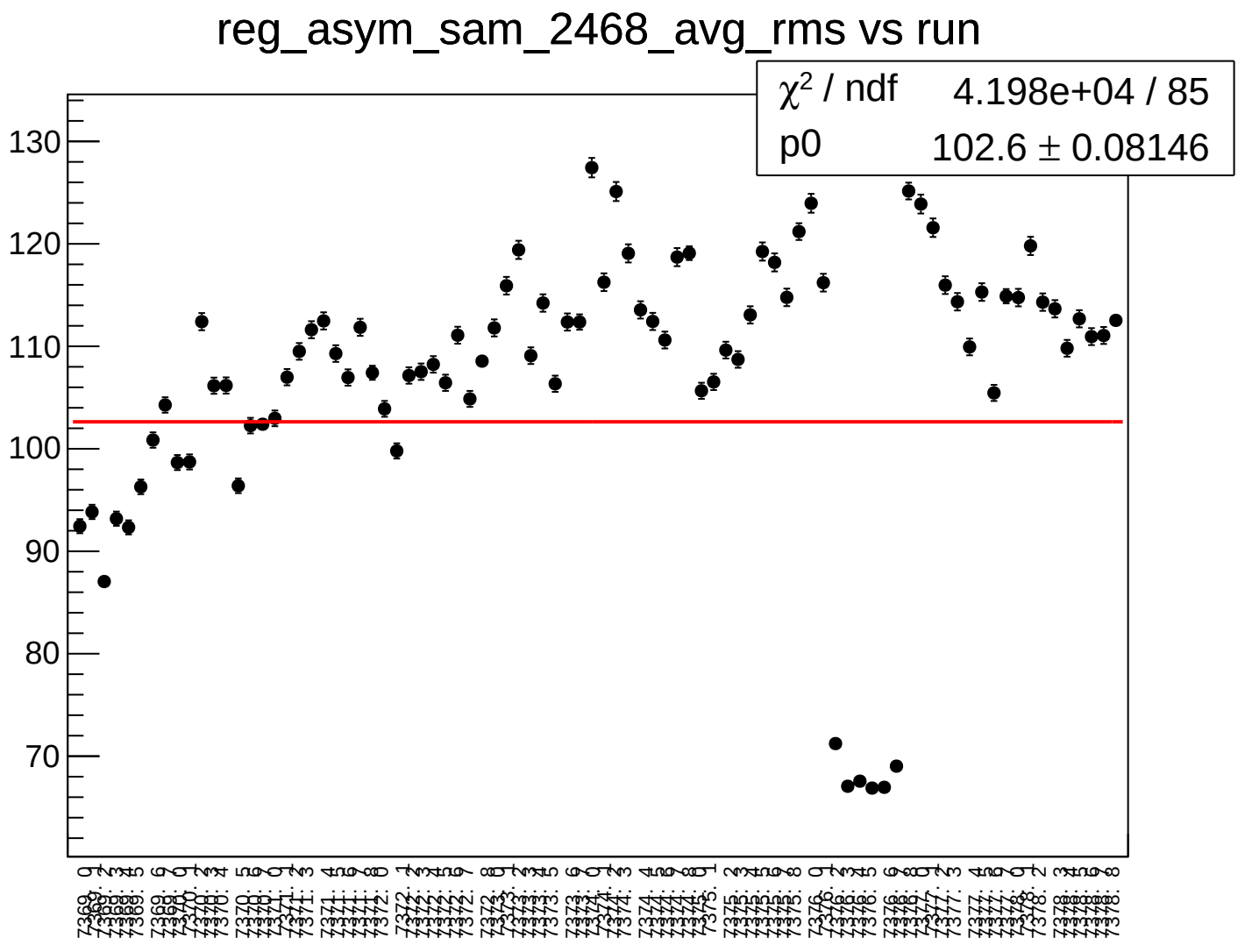

asym_sam_1357_avg_mean vs run
χ^2 / ndf 85.7 / 85
p0 29.21 ± 379.8
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −104.6
Std Dev 131.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

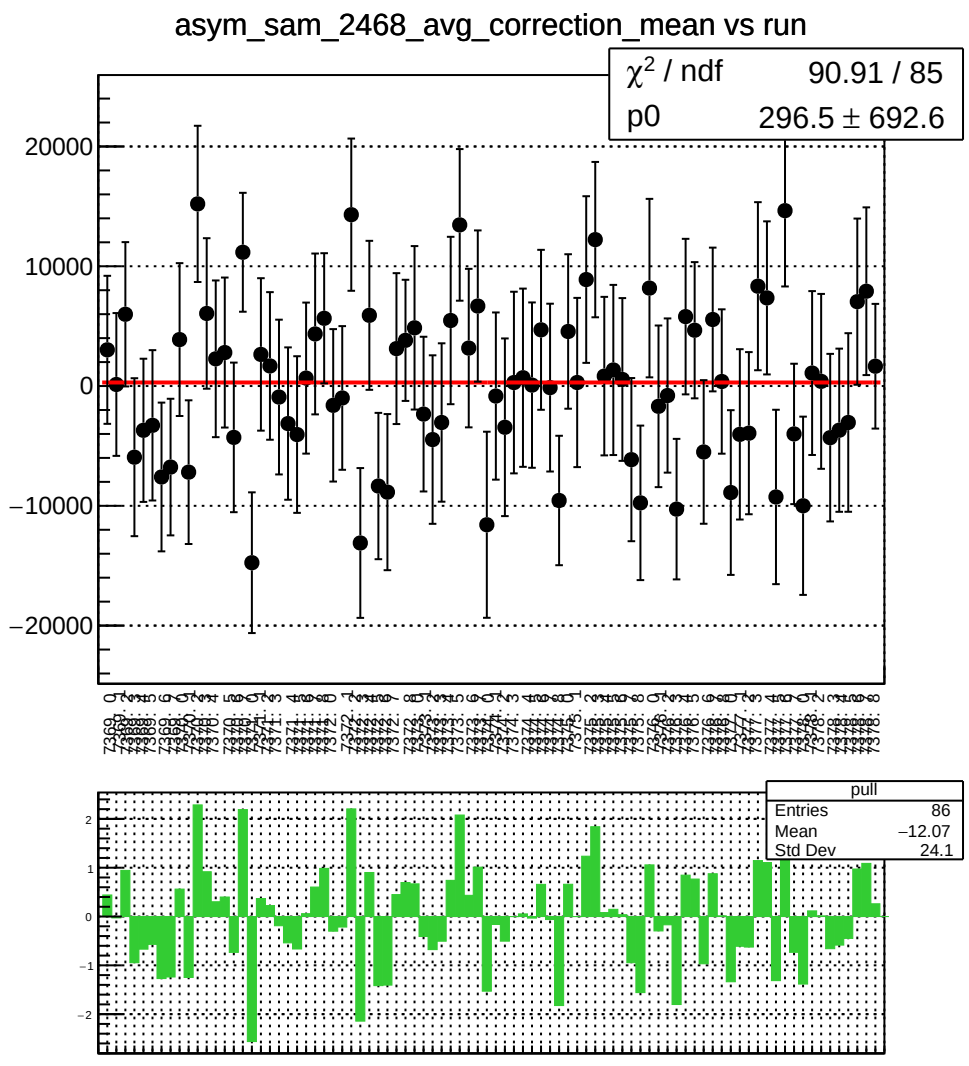

pull1D
Entries 86
Mean 0.005699
Std Dev 0.9983
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

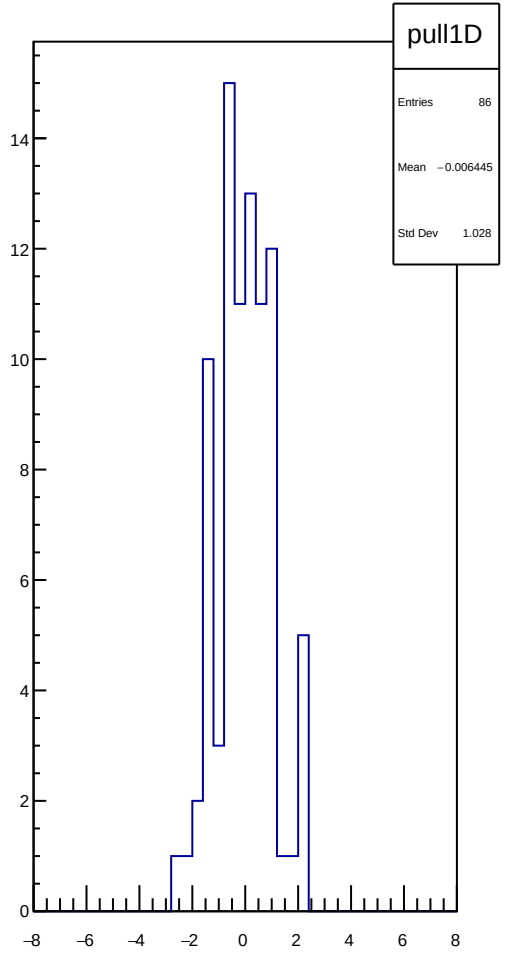

asym_sam_1357_avg_rms vs run
χ² / ndf 8007 / 85
p0 342 ± 0.2685
420
400
380
360
340
320
300

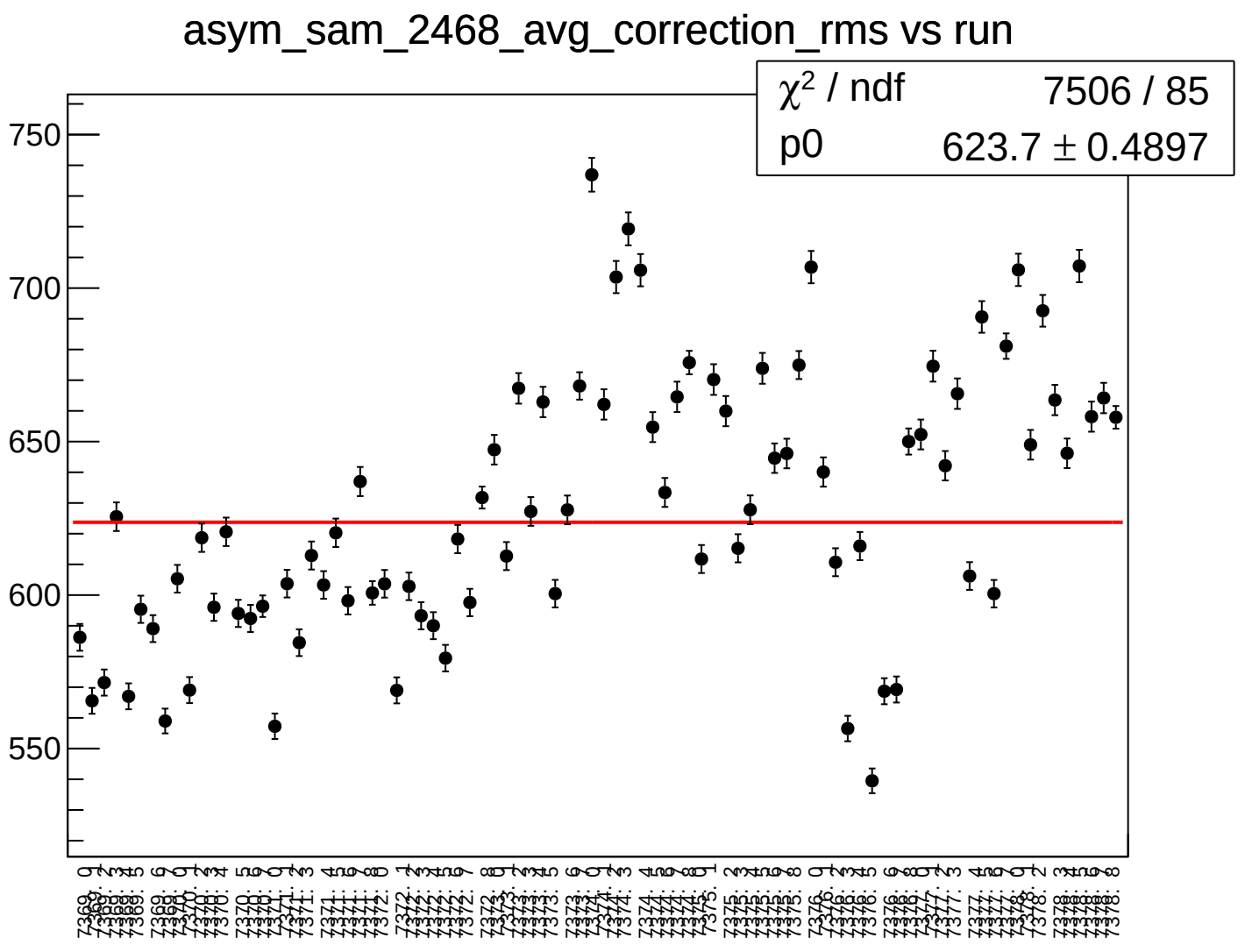

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 80.68 / 85
p0 213.8 ± 115.2
pull
Entries 86
Mean −18.53
Std Dev 60.2

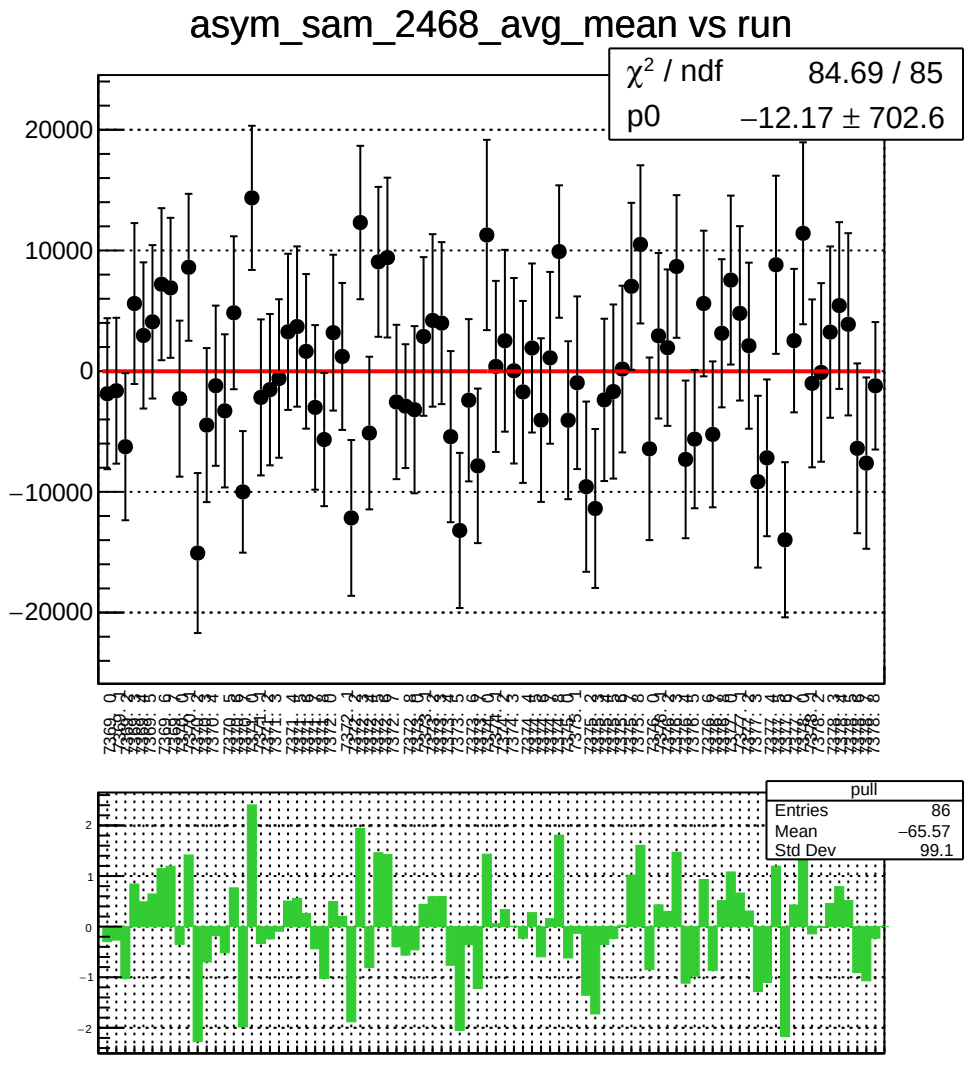

pull1D
Entries 86
Mean 0.0362
Std Dev 0.9679

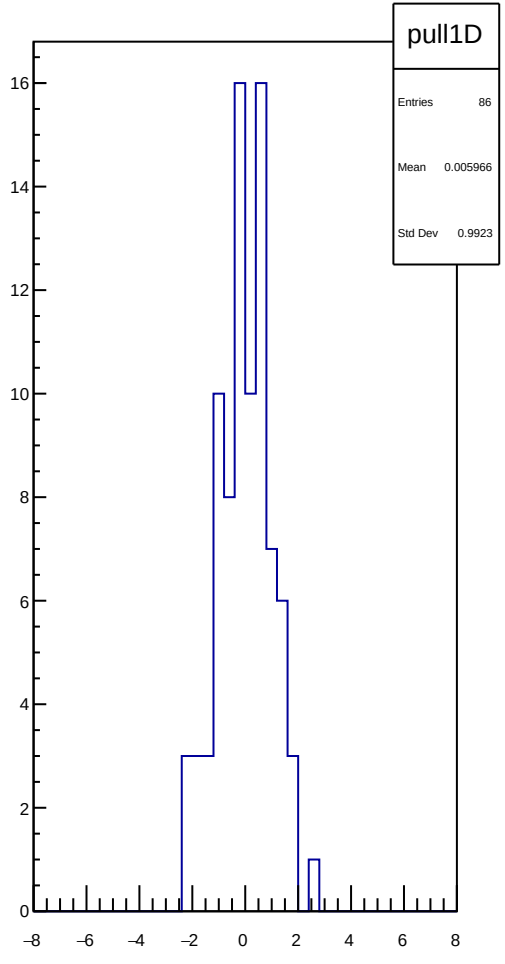

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 4.198e+04 / 85
p0 102.6 ± 0.08146
130
120
110
100
90
80
70

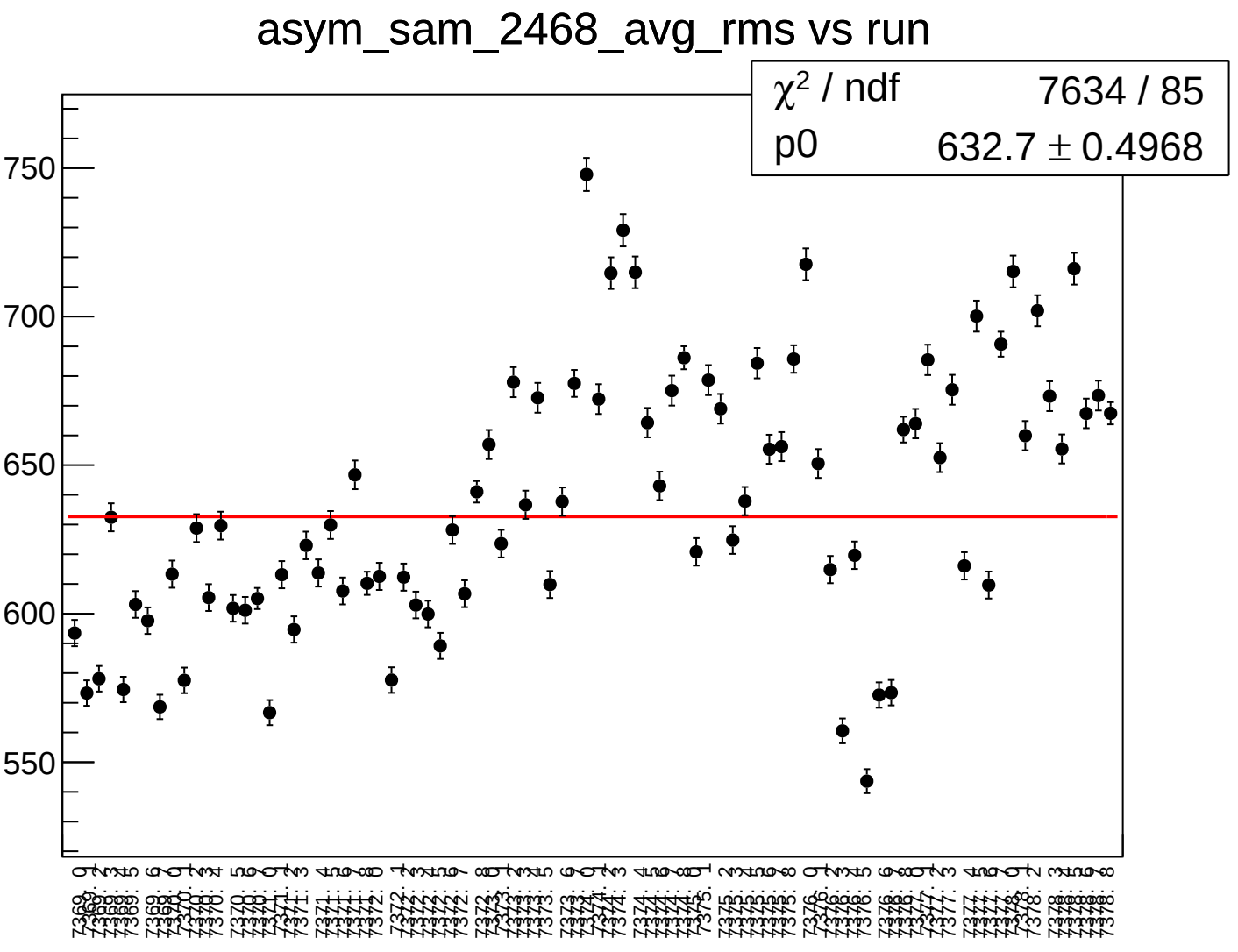

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 90.91 / 85
p0 296.5 ± 692.6
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −12.07
Std Dev 24.1
2
1
0
−1
−2

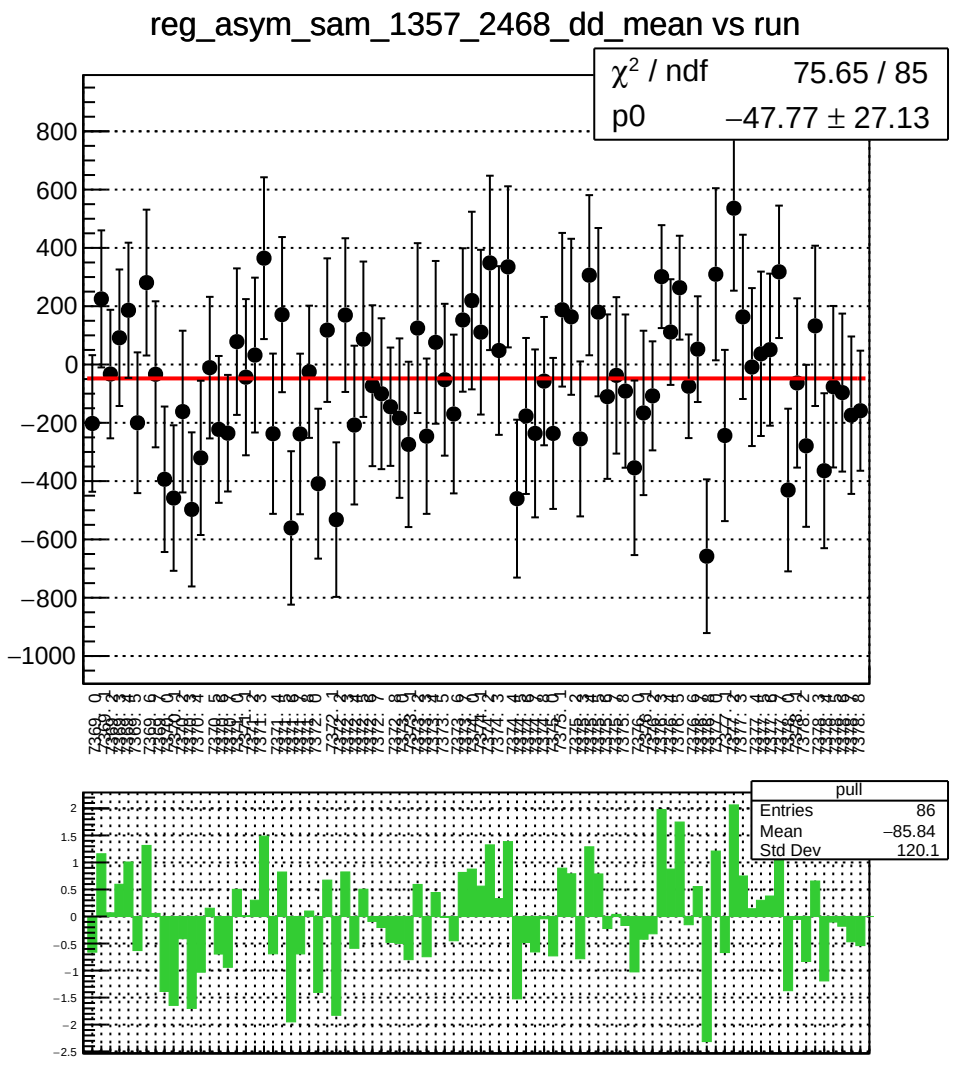

pull1D
Entries 86
Mean −0.006445
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

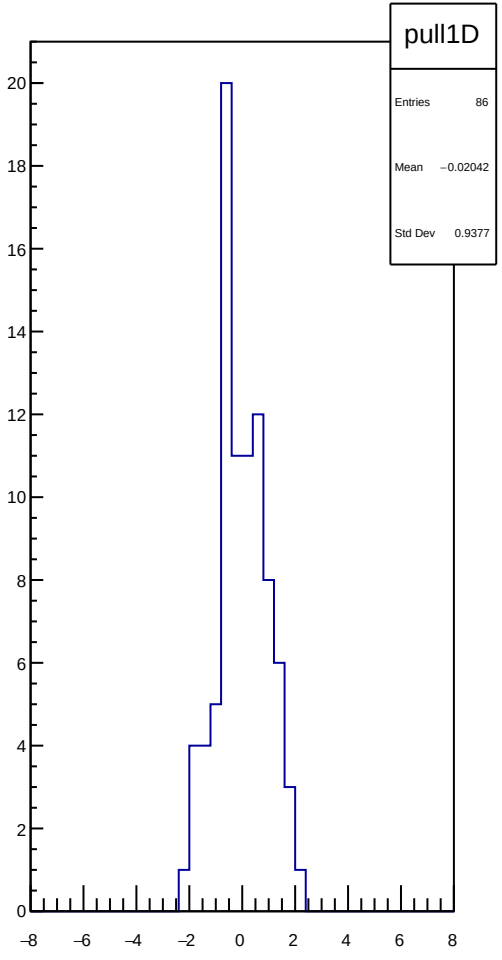

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 7506 / 85
p0 623.7 ± 0.4897
750
700
650
600
550

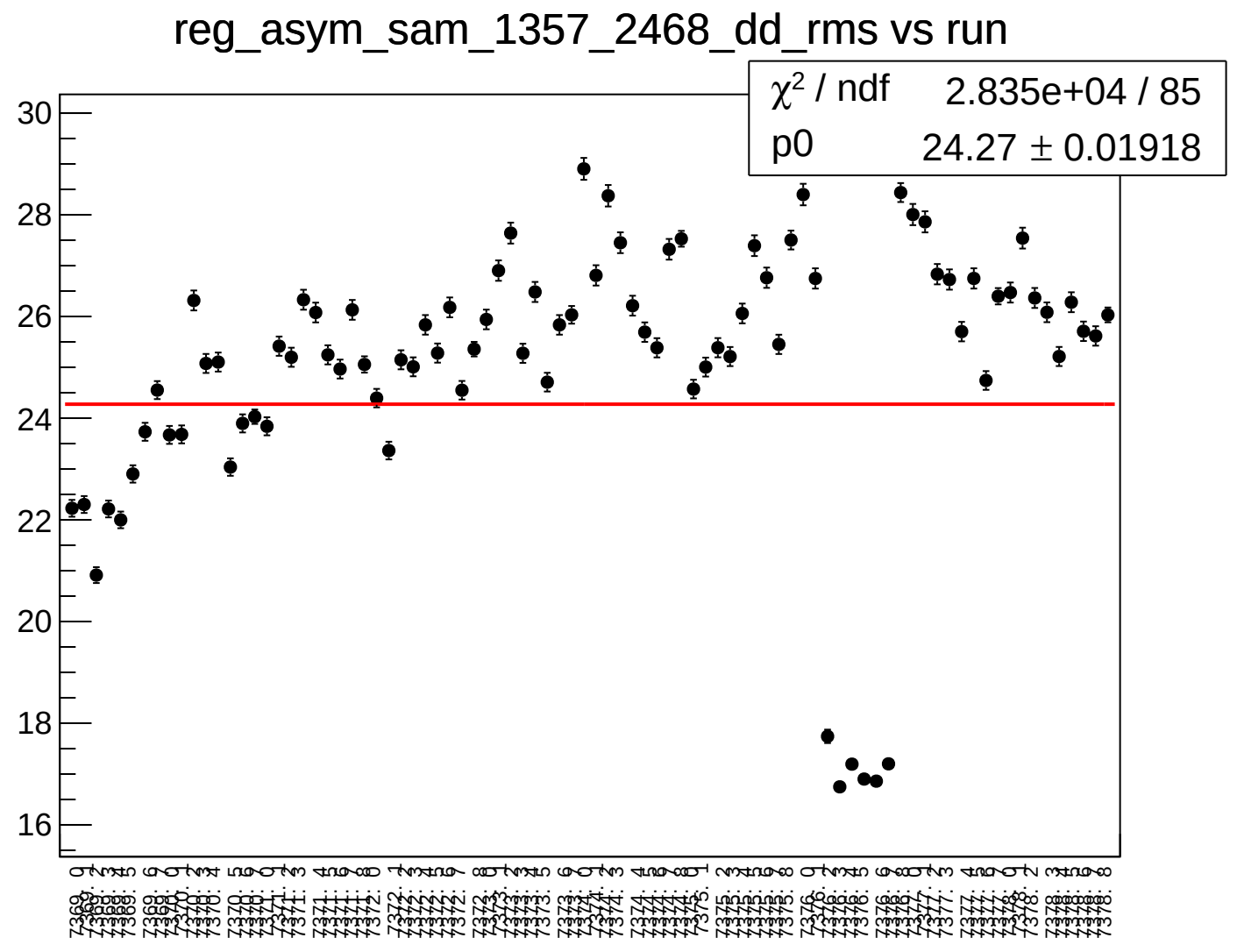

asym_sam_2468_avg_mean vs run
χ² / ndf 84.69 / 85
p0 −12.17 ± 702.6
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −65.57
Std Dev 99.1
2
1
0
−1
−2

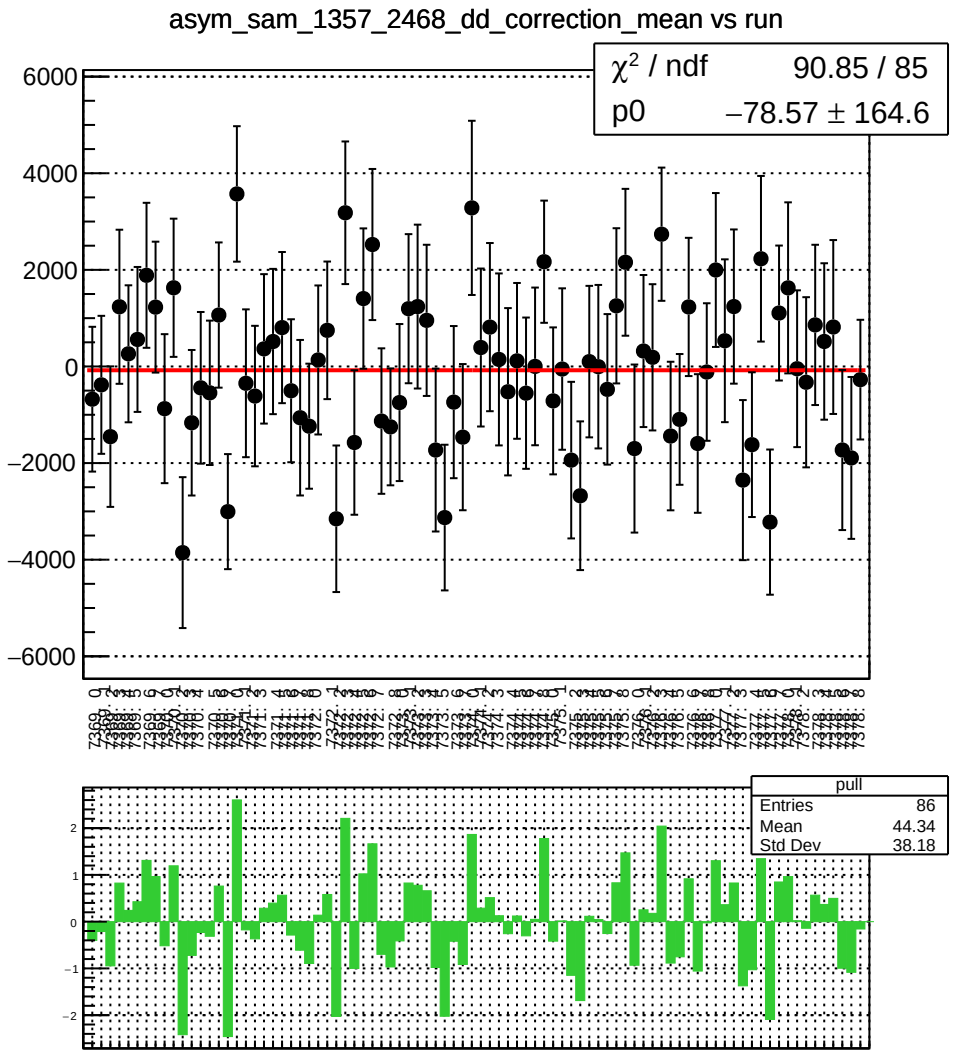

pull1D
Entries 86
Mean 0.005966
Std Dev 0.9923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

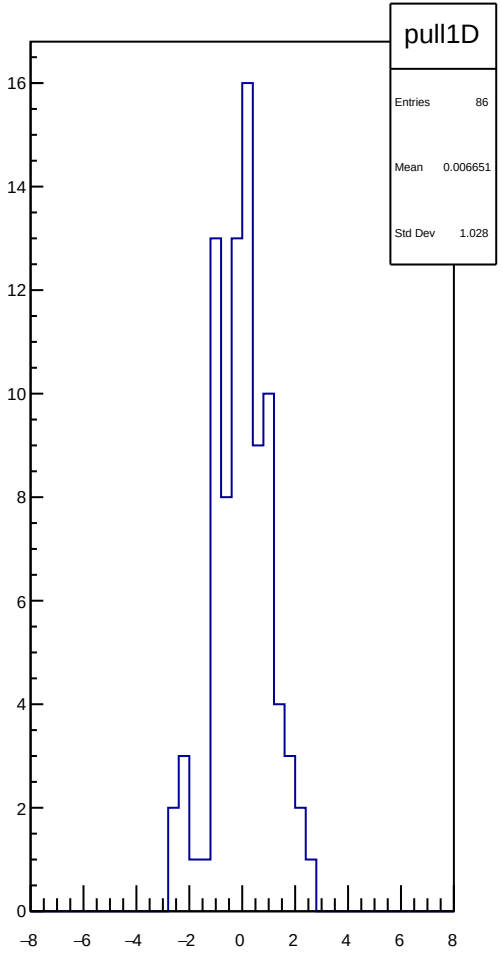

asym_sam_2468_avg_rms vs run
χ² / ndf 7634 / 85
p0 632.7 ± 0.4968
750
700
650
600
550

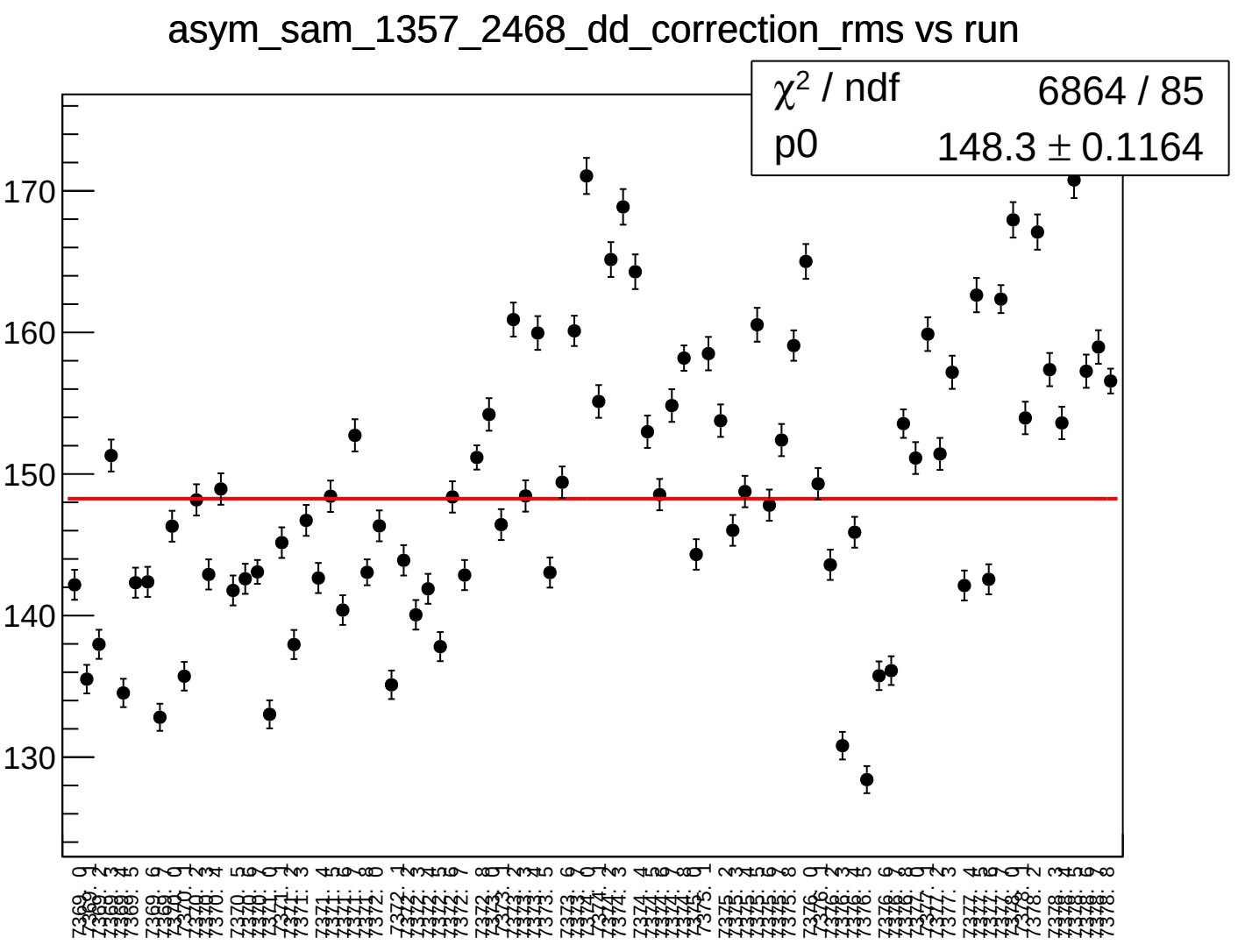

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 75.65 / 85
p0 −47.77 ± 27.13
pull
Entries 86
Mean −85.84
Std Dev 120.1

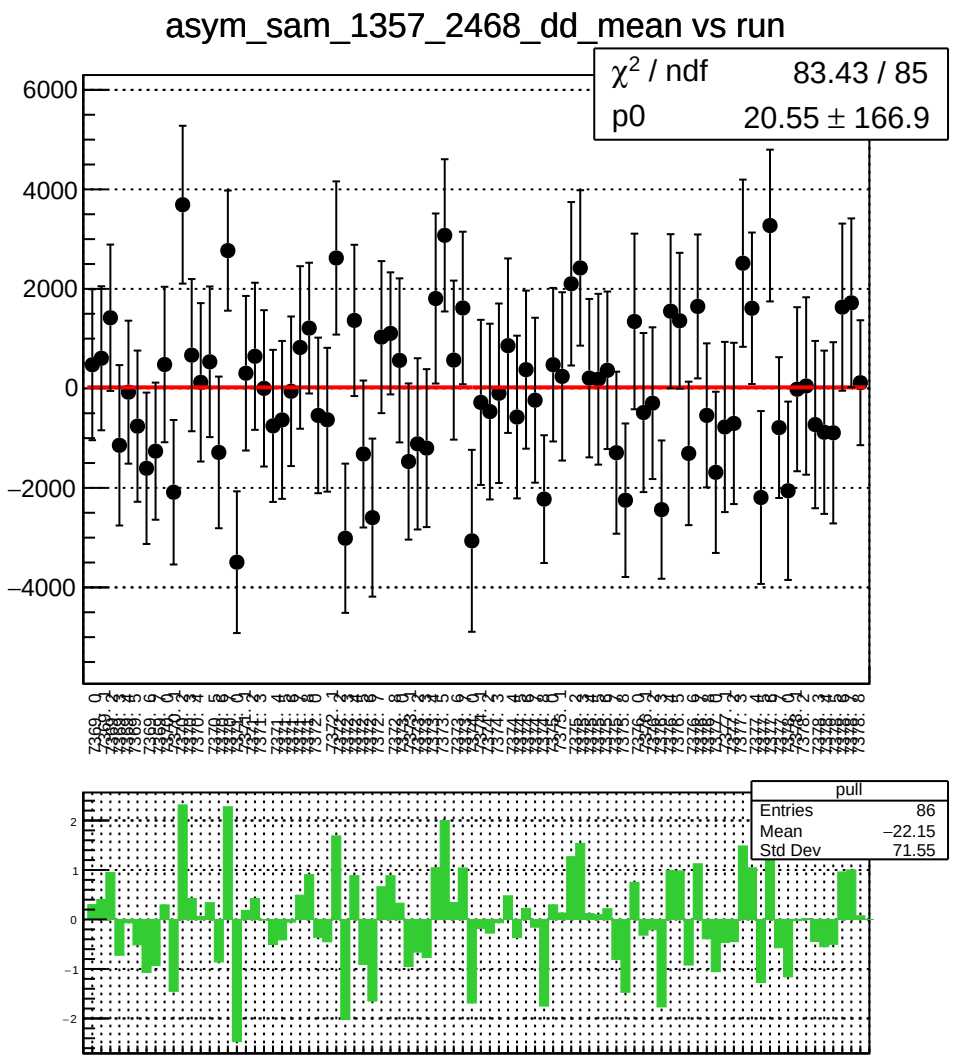

pull1D
Entries 86
Mean −0.02042
Std Dev 0.9377

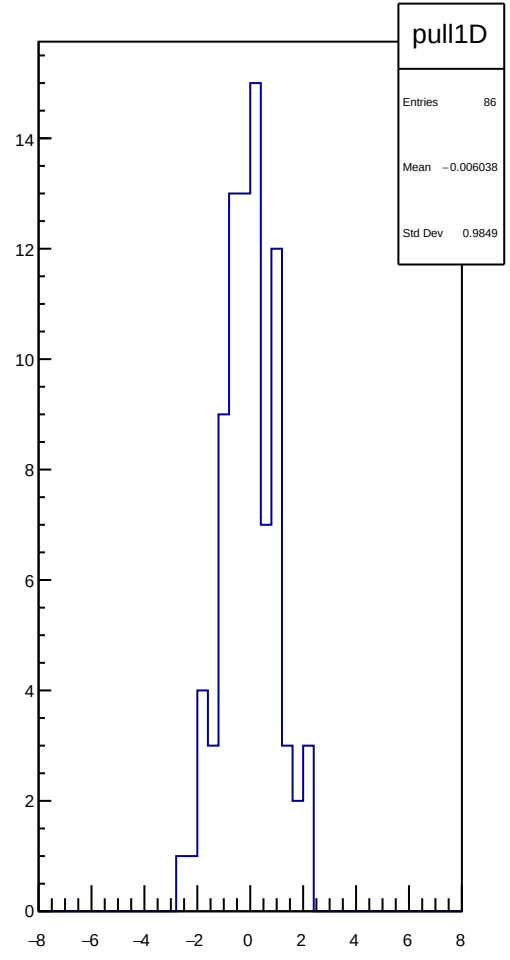

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.835e+04 / 85
p0 24.27 ± 0.01918
30
28
26
24
22
20
18
16

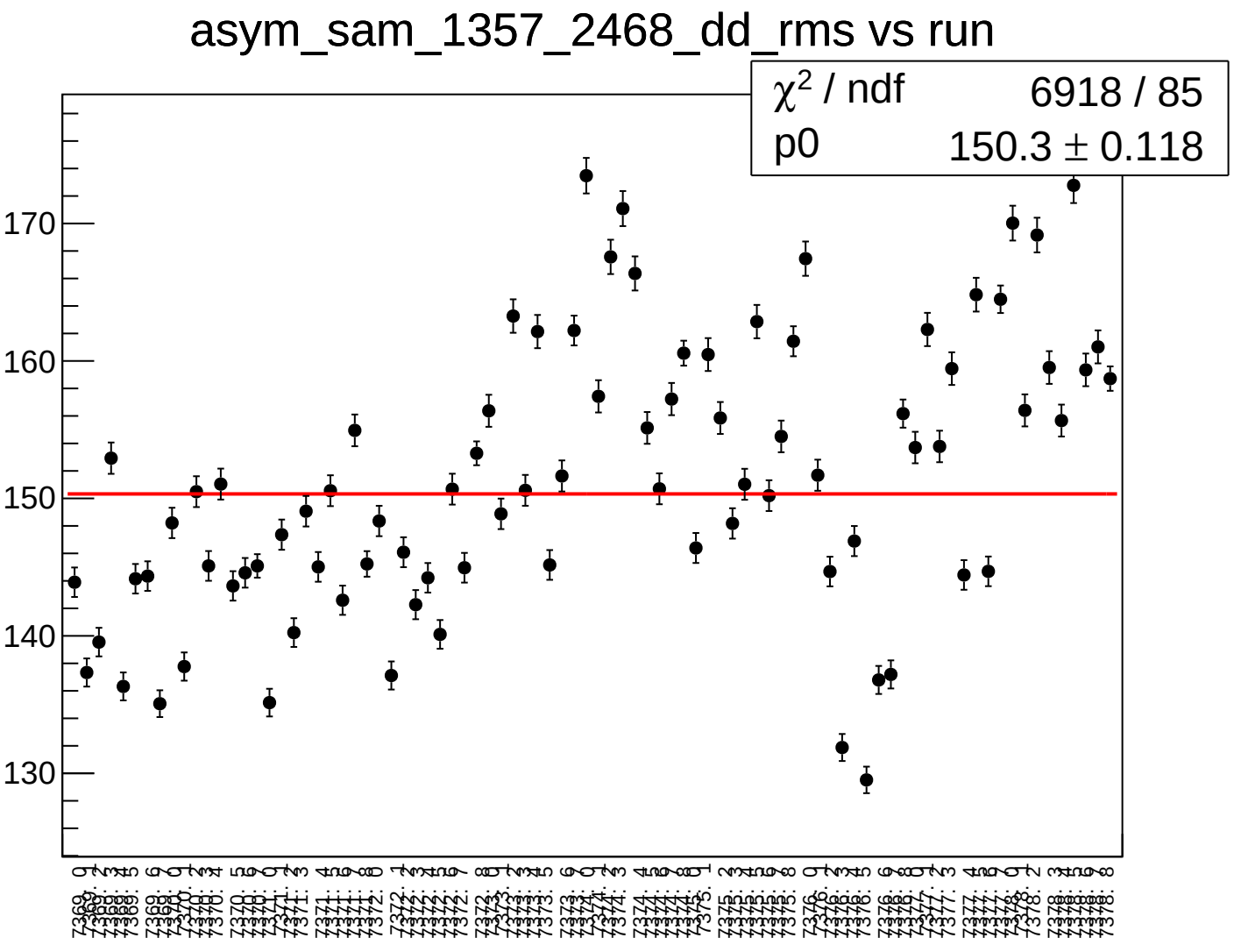

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 90.85 / 85
p0 −78.57 ± 164.6
pull
Entries 86
Mean 44.34
Std Dev 38.18

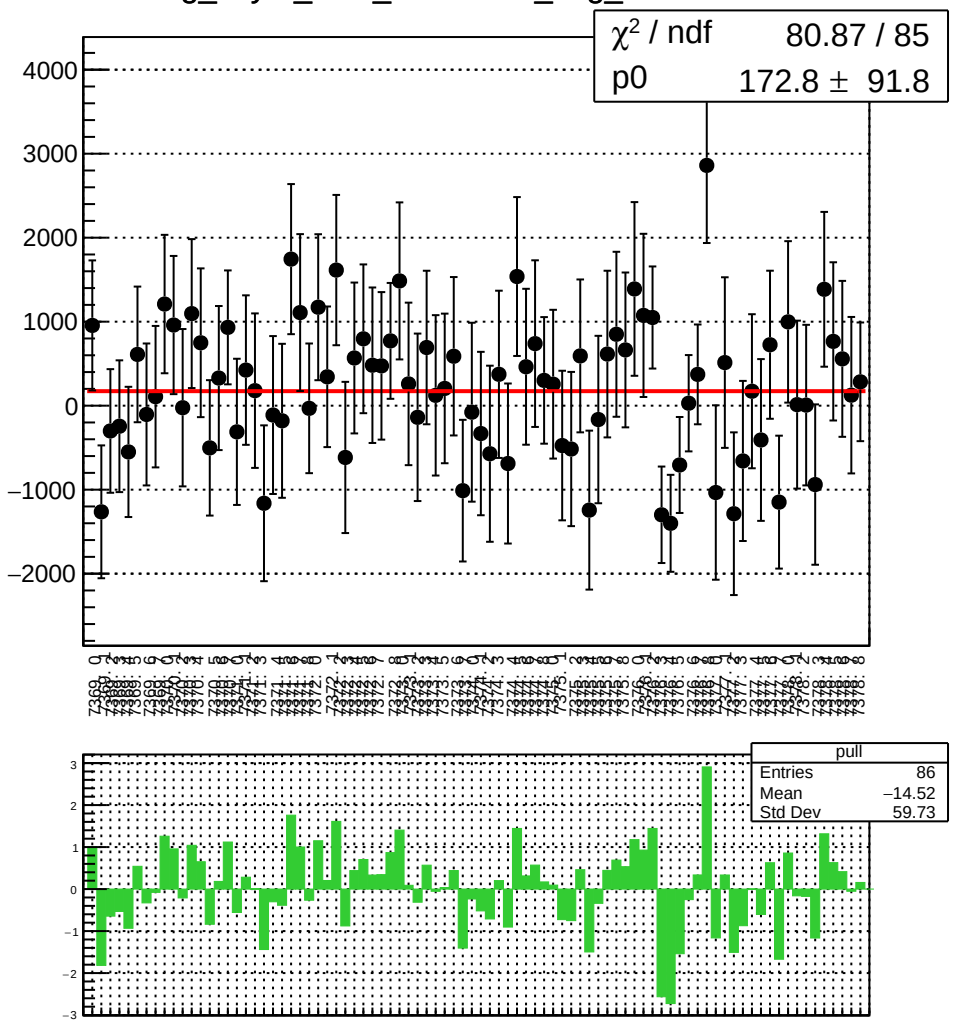

pull1D
Entries 86
Mean 0.006651
Std Dev 1.028

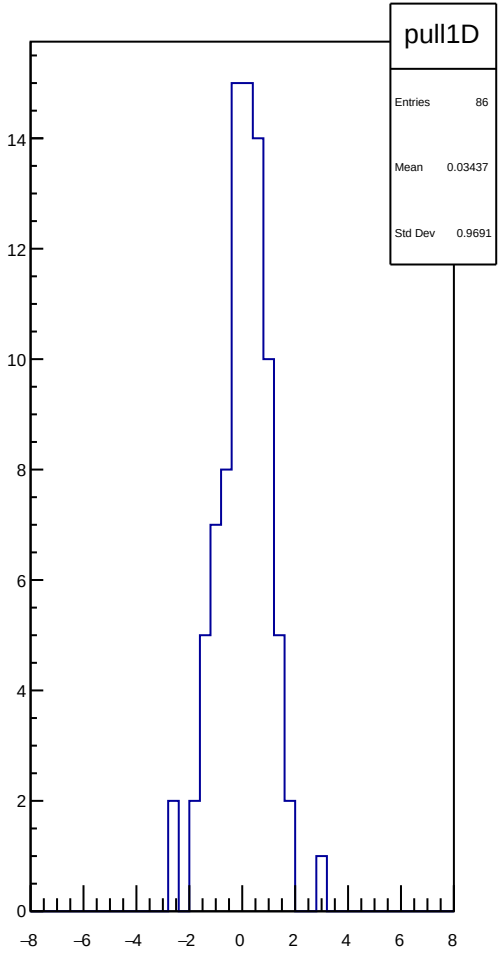

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 6864 / 85
p0 148.3 ± 0.1164
170
160
150
140
130

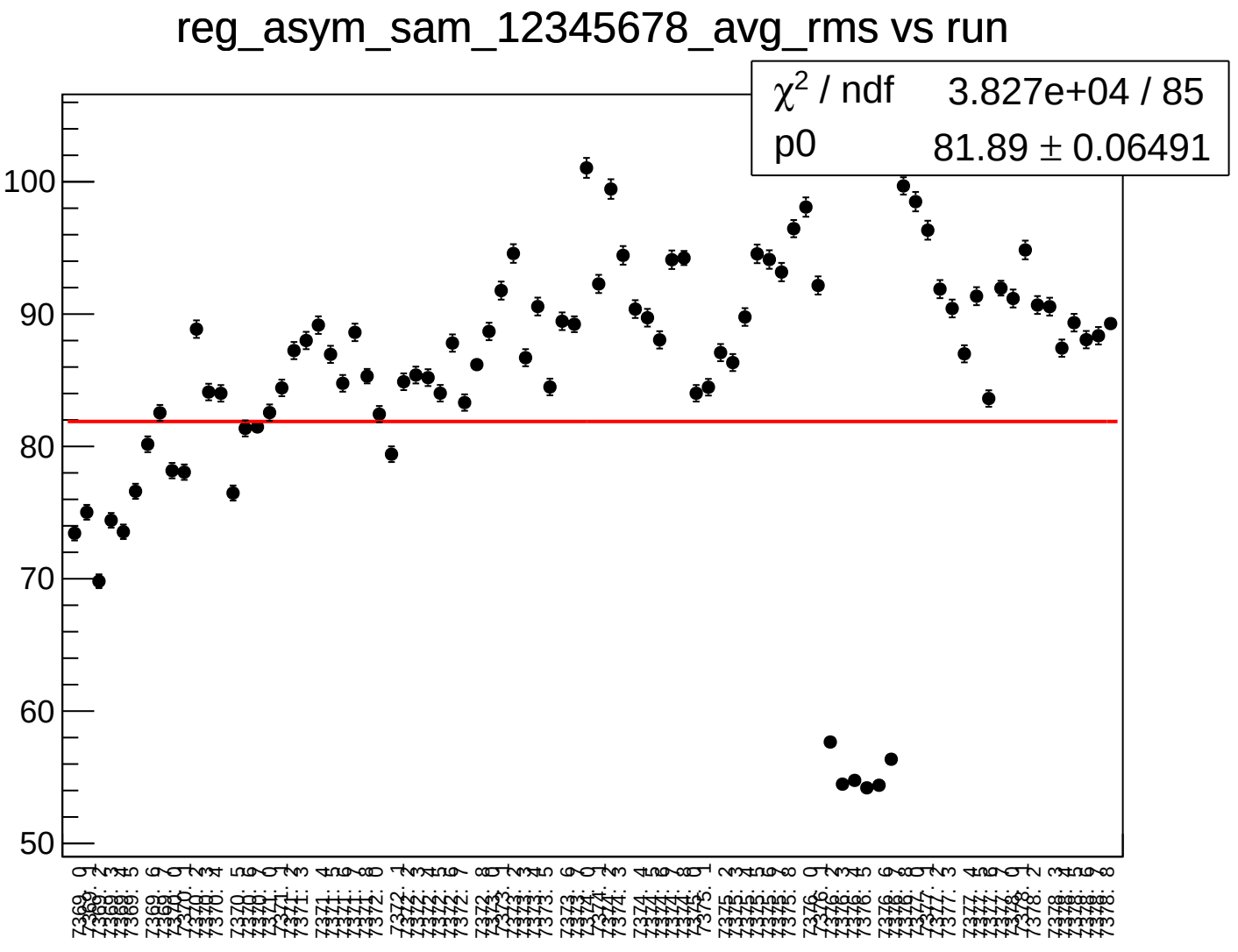

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 83.43 / 85
p0 20.55 ± 166.9
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −22.15
Std Dev 71.55
2
1
0
−1
−2

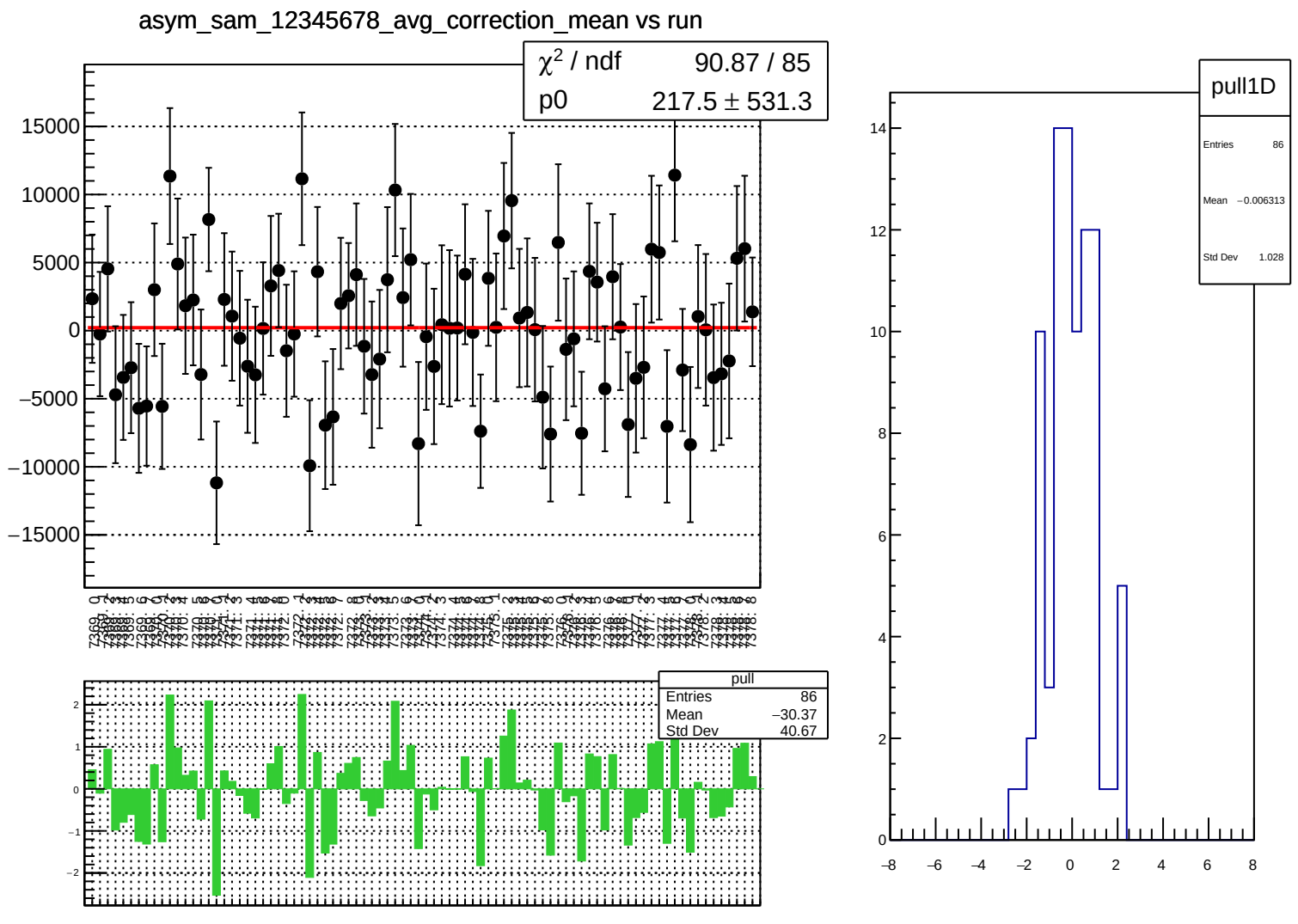

pull1D
Entries 86
Mean −0.006038
Std Dev 0.9849
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

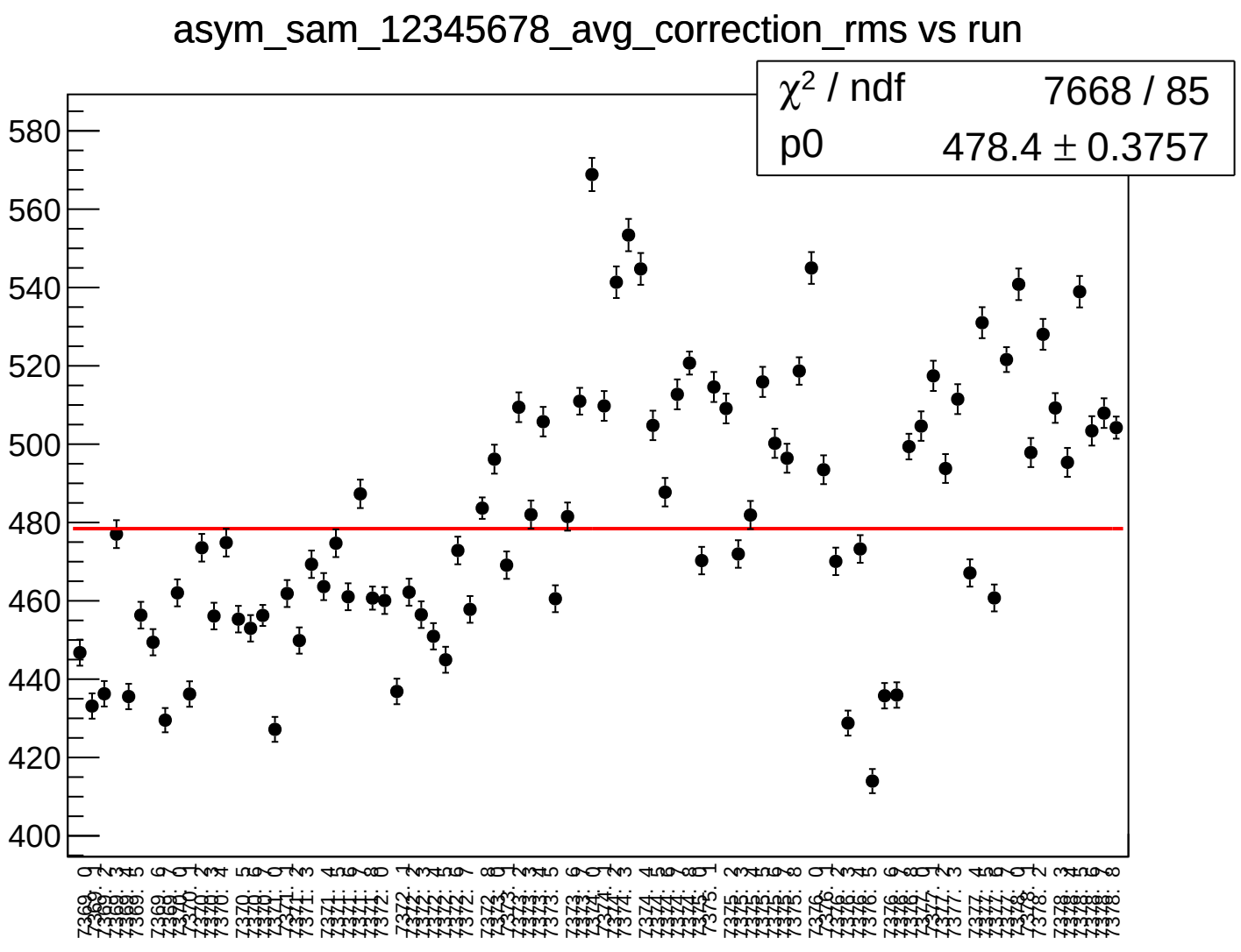

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6918 / 85
p0 150.3 ± 0.118
170
160
150
140
130

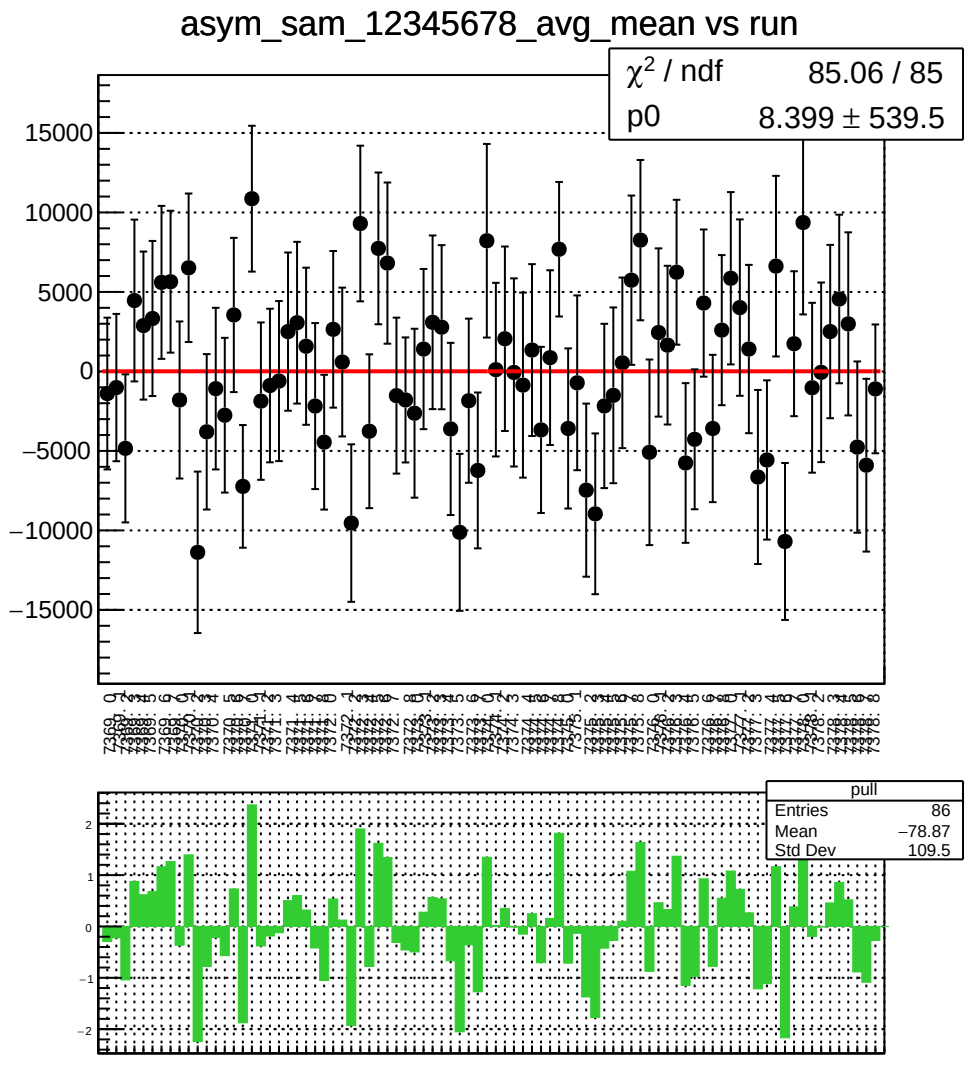

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 80.87 / 85
p0 172.8 ± 91.8
pull
Entries 86
Mean −14.52
Std Dev 59.73

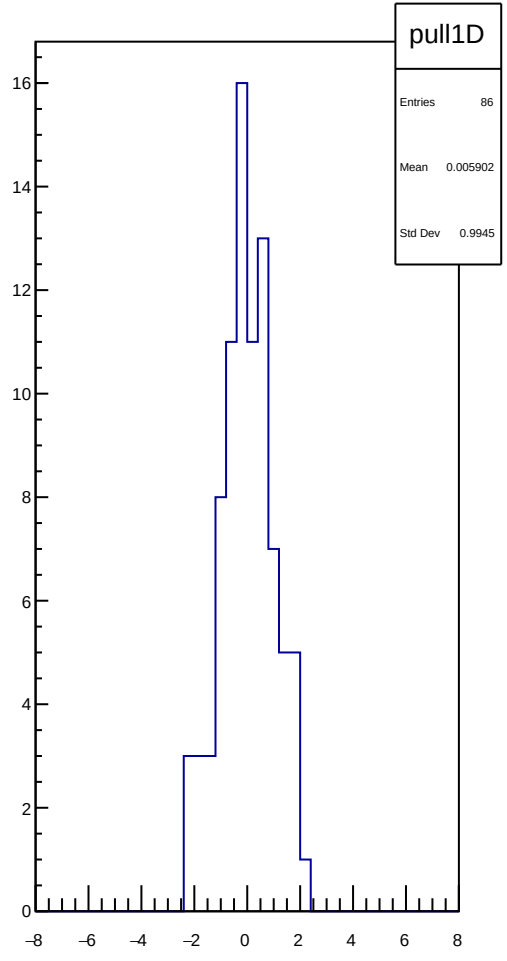

pull1D
Entries 86
Mean 0.03437
Std Dev 0.9691

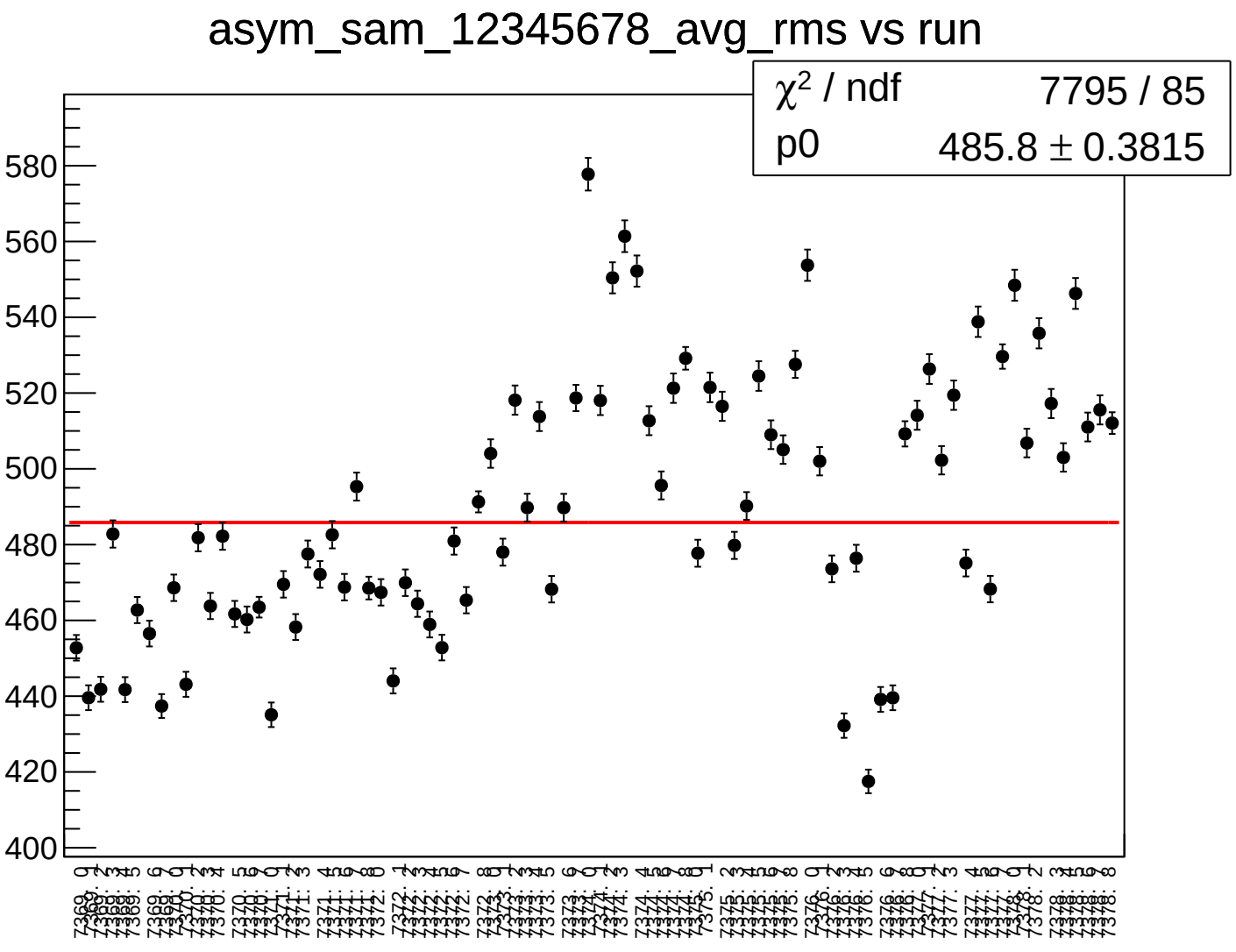

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 3.827e+04 / 85
p0 81.89 ± 0.06491
100
90
80
70
60
50

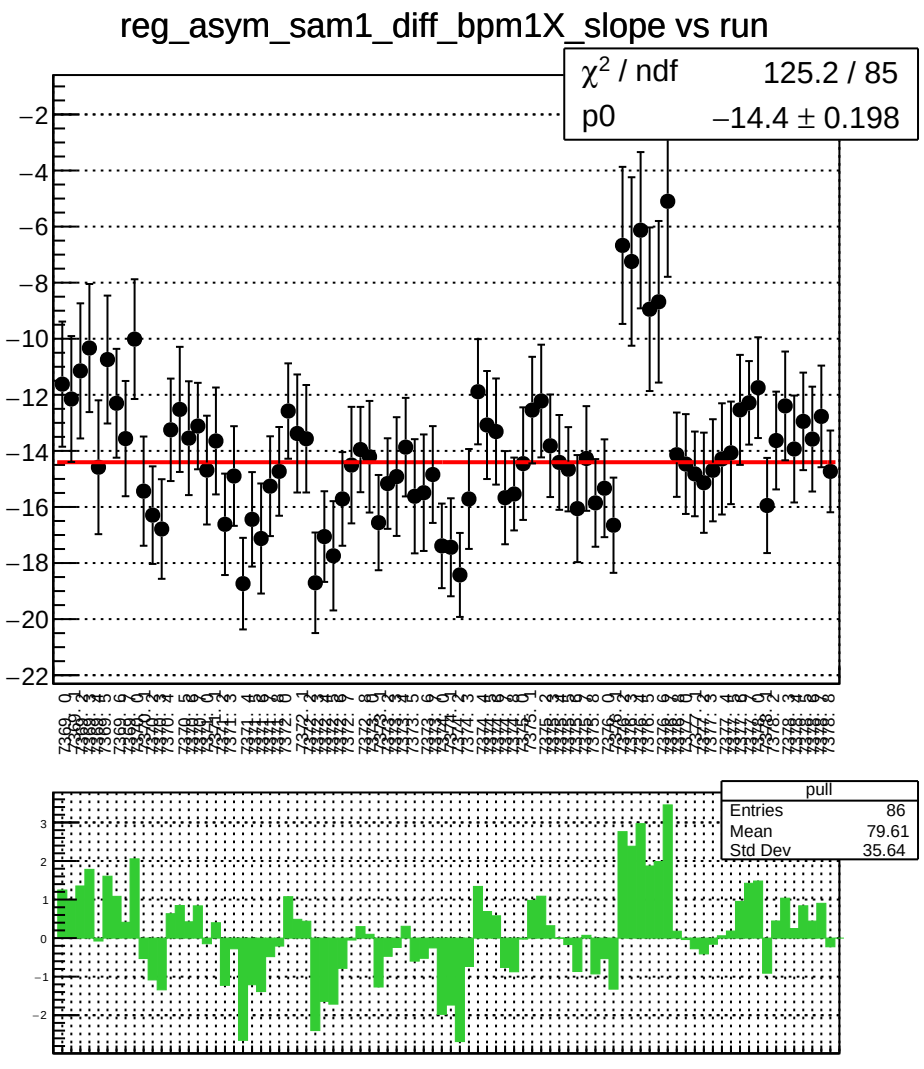

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 90.87 / 85
p0 217.5 ± 531.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −30.37
Std Dev 40.67
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.006313
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

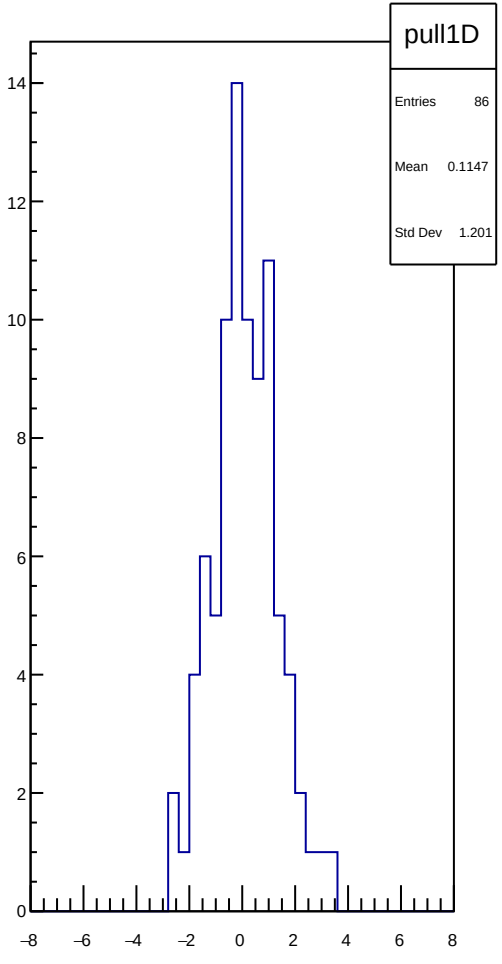

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 7668 / 85
p0 478.4 ± 0.3757
580
560
540
520
500
480
460
440
420
400

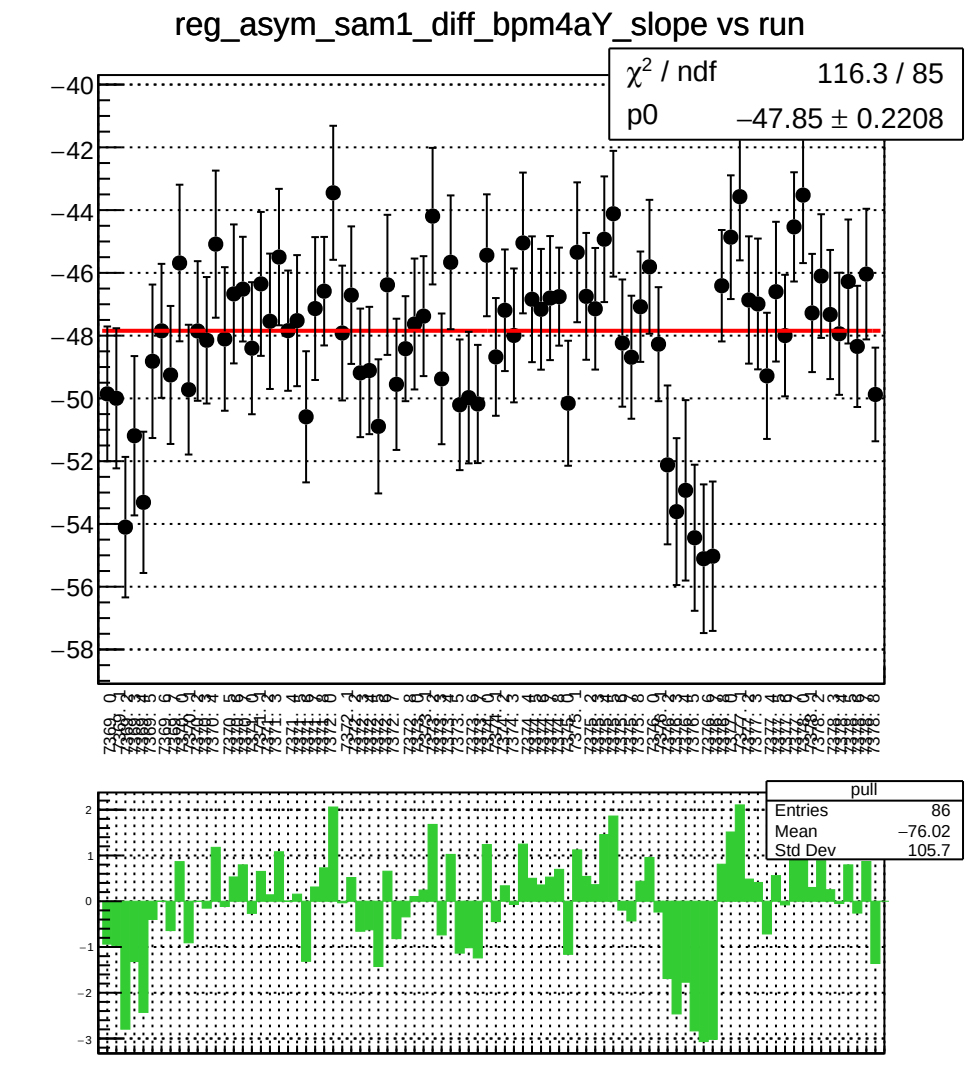

asym_sam_12345678_avg_mean vs run
χ² / ndf 85.06 / 85
p0 8.399 ± 539.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −78.87
Std Dev 109.5
2
1
0
−1
−2

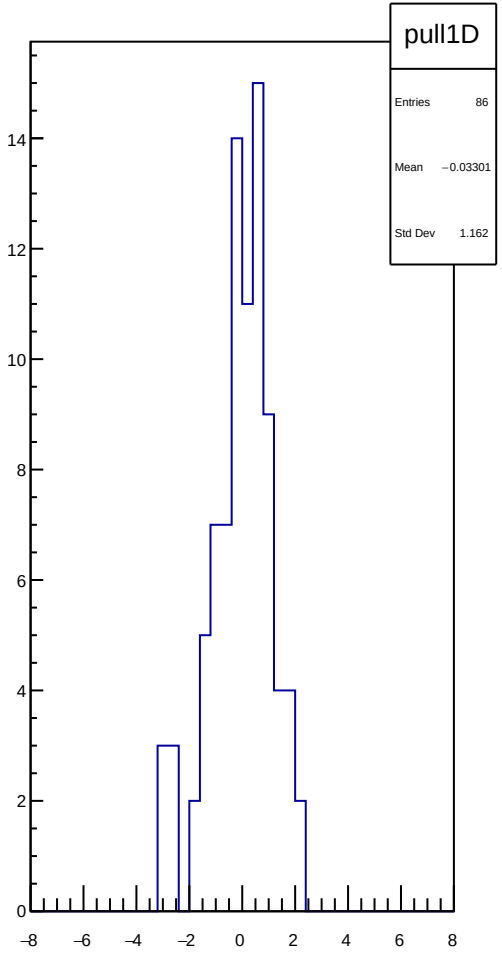

pull1D
Entries 86
Mean 0.005902
Std Dev 0.9945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

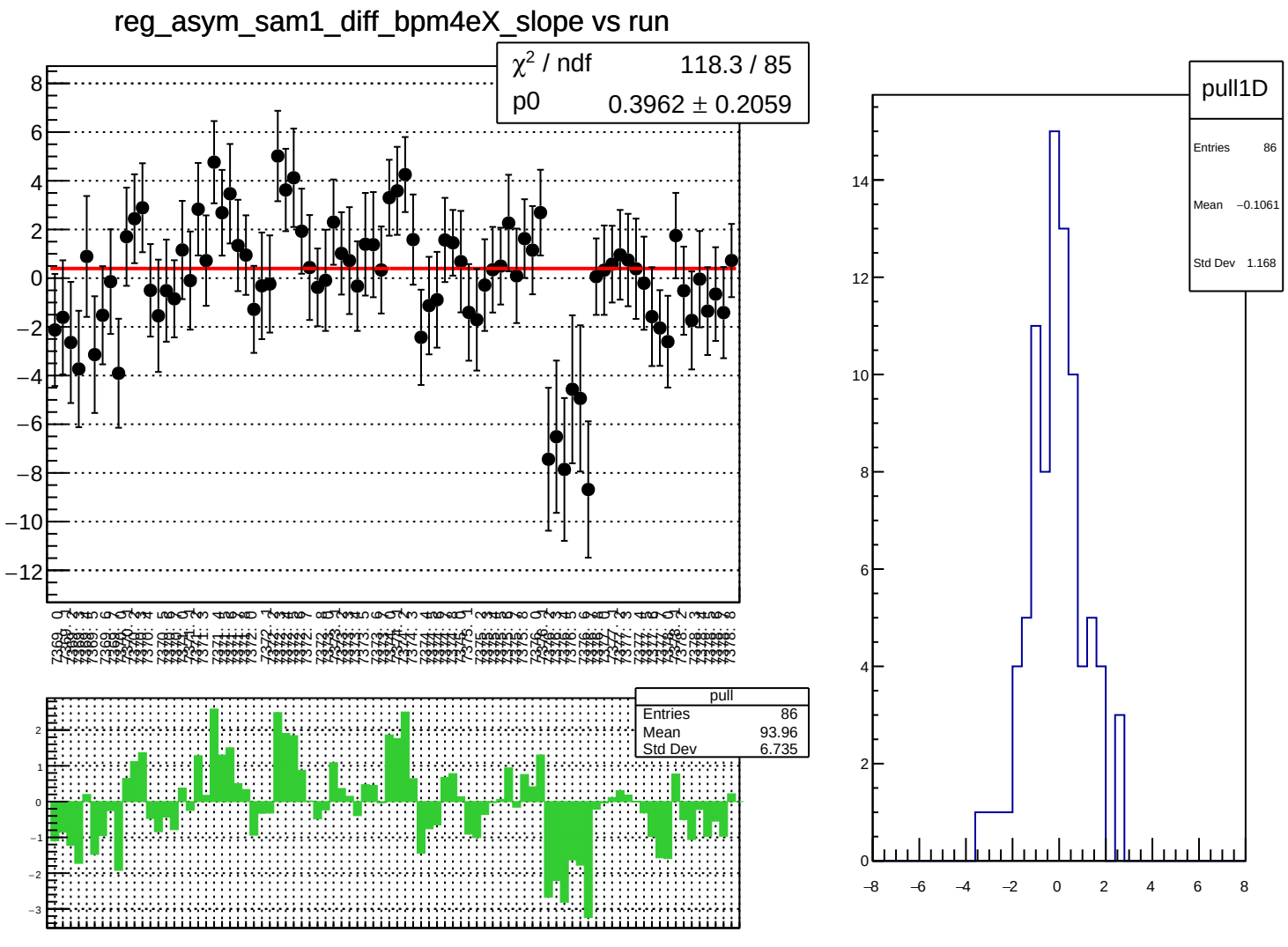

asym_sam_12345678_avg_rms vs run
χ² / ndf 7795 / 85
p0 485.8 ± 0.3815
580
560
540
520
500
480
460
440
420
400

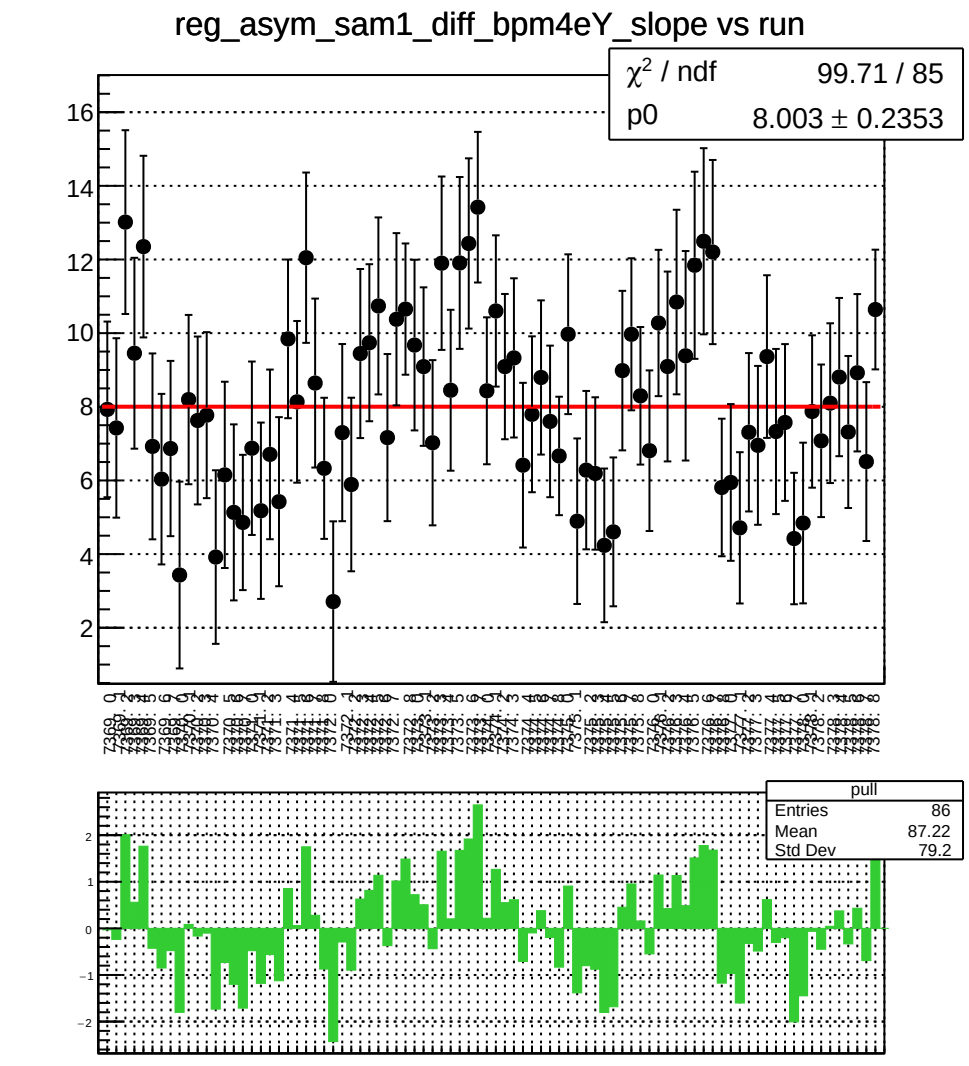

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 125.2 / 85
p0 −14.4 ± 0.198
pull
Entries 86
Mean 79.61
Std Dev 35.64

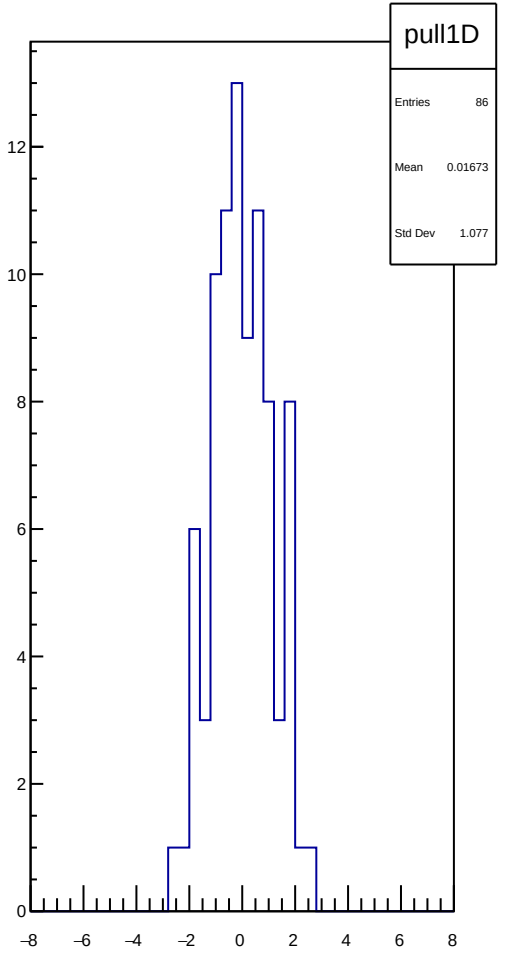

pull1D
Entries 86
Mean 0.1147
Std Dev 1.201

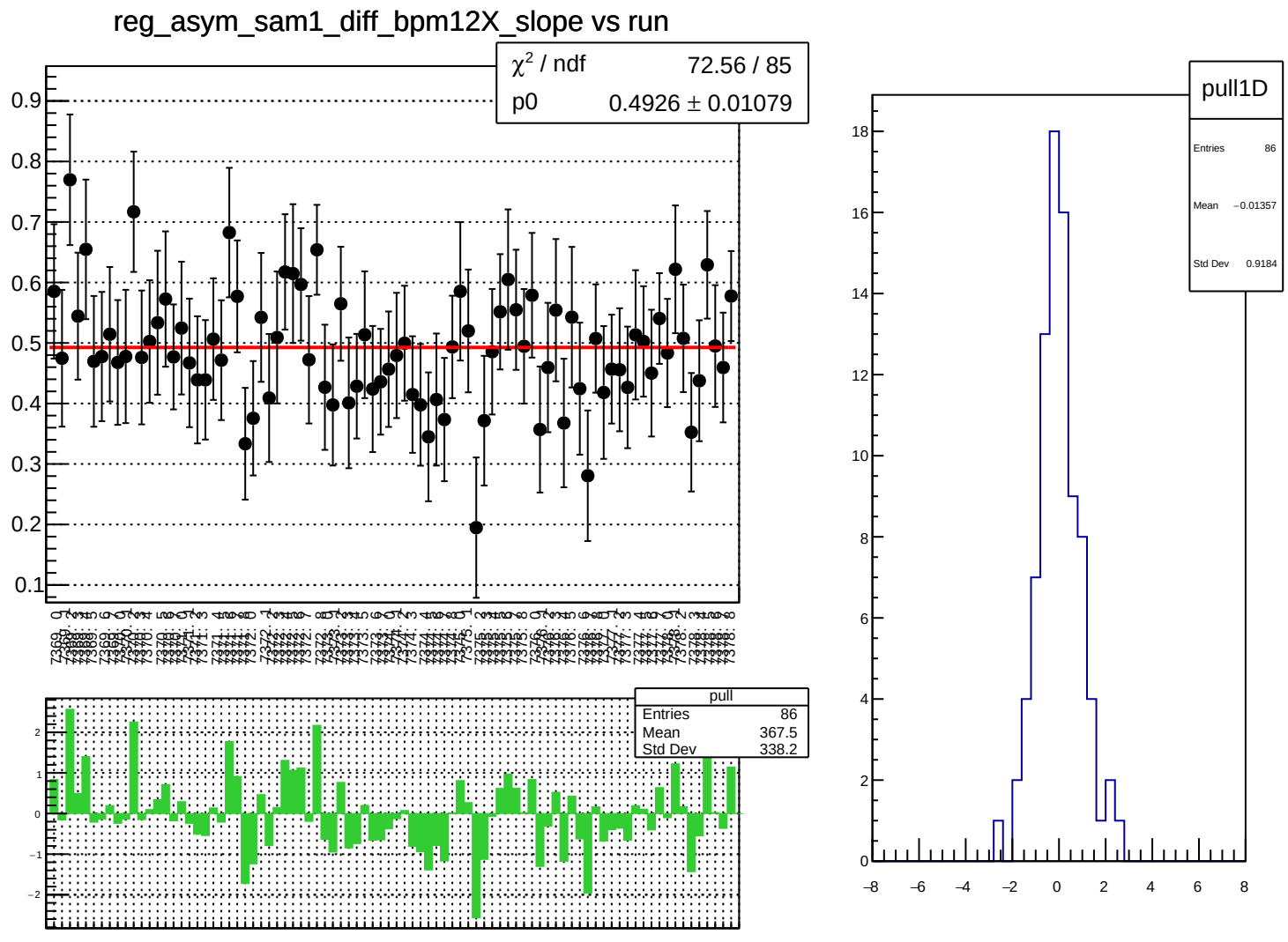

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 116.3 / 85
p0 −47.85 ± 0.2208
pull
Entries 86
Mean −76.02
Std Dev 105.7

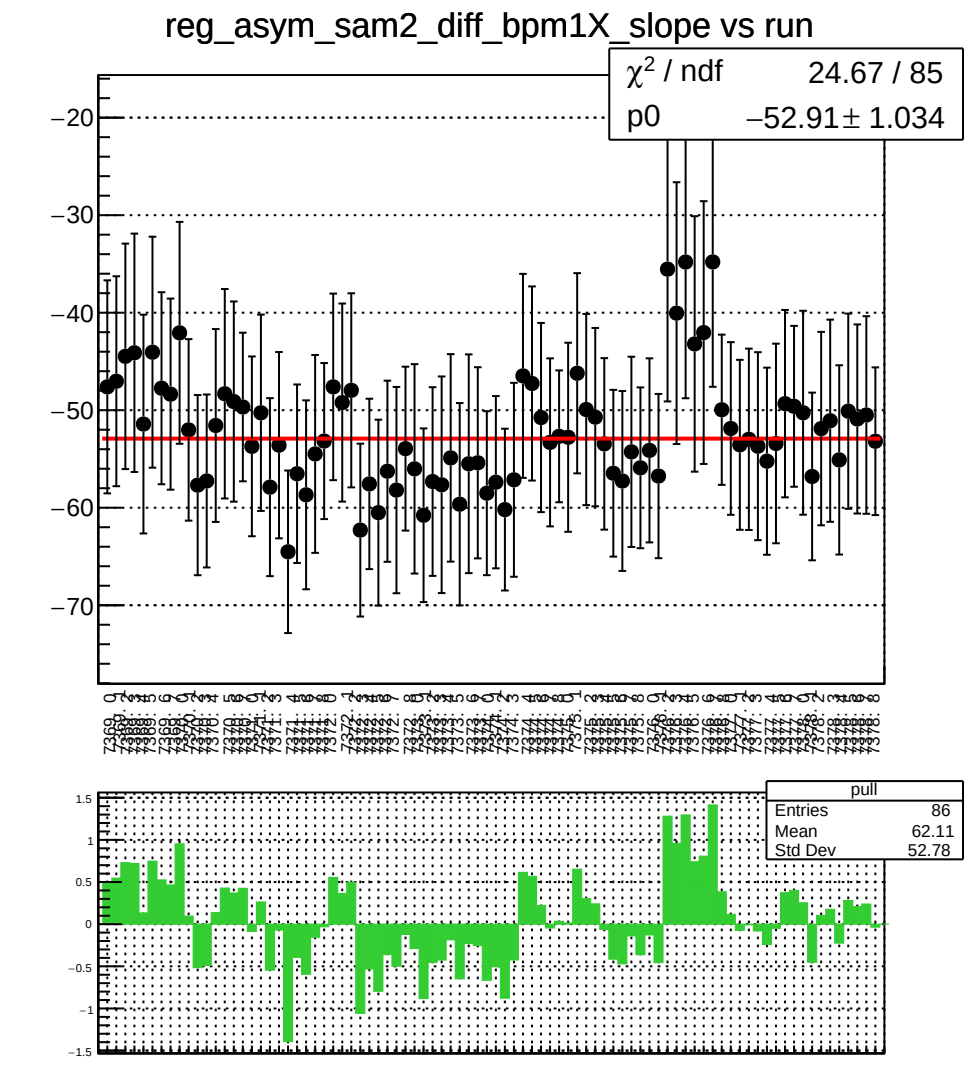

pull1D
Entries 86
Mean −0.03301
Std Dev 1.162

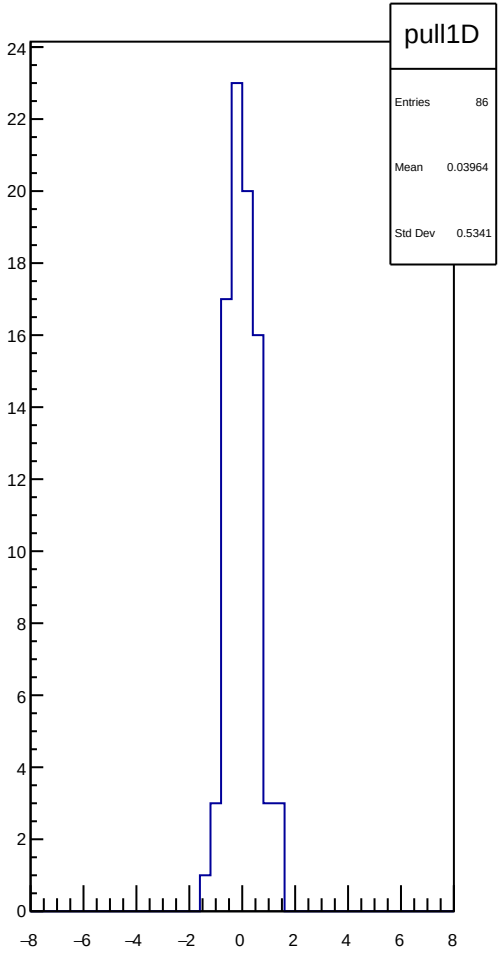

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 118.3 / 85
p0 0.3962 ± 0.2059
pull
Entries 86
Mean 93.96
Std Dev 6.735
pull1D
Entries 86
Mean −0.1061
Std Dev 1.168

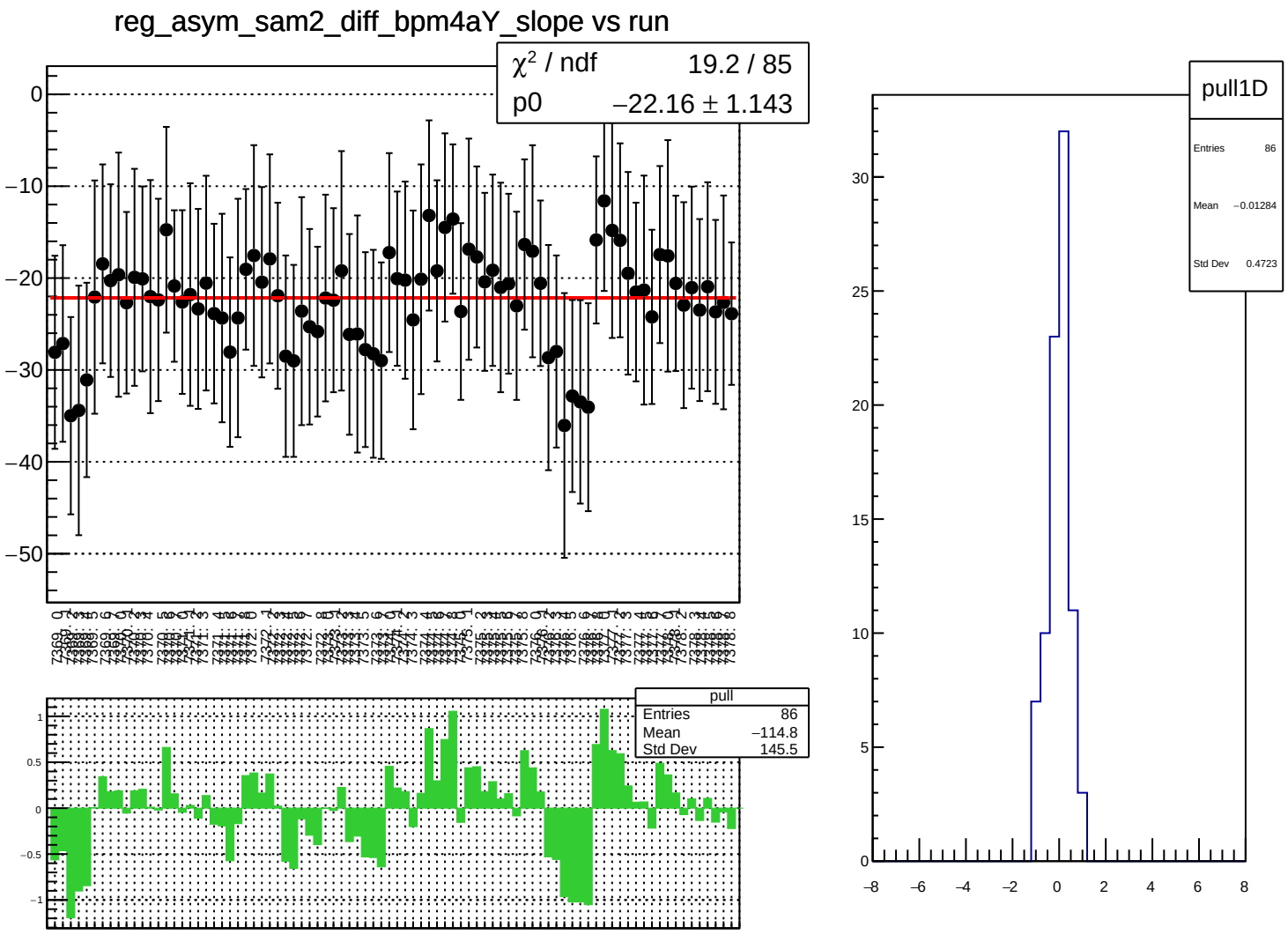

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 99.71 / 85
p0 8.003 ± 0.2353
pull
Entries 86
Mean 87.22
Std Dev 79.2

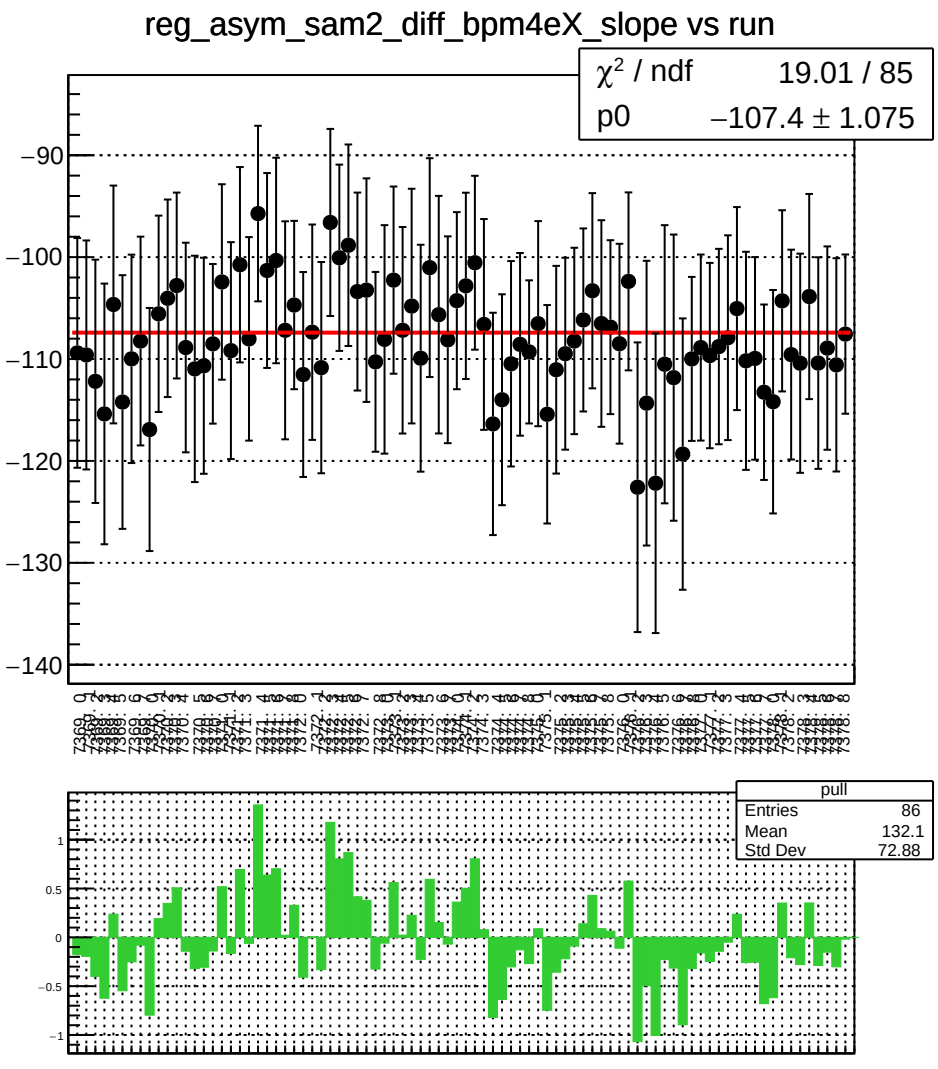

pull1D
Entries 86
Mean 0.01673
Std Dev 1.077

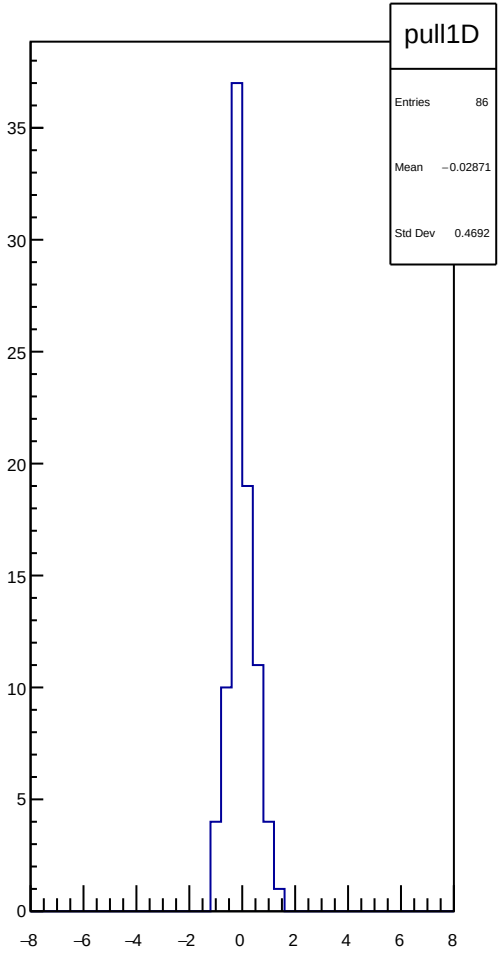

reg_asym_sam1_diff_bpm12X_slope vs run
χ^2 / ndf 72.56 / 85
p0 0.4926 ± 0.01079
pull
Entries 86
Mean 367.5
Std Dev 338.2
pull1D
Entries 86
Mean −0.01357
Std Dev 0.9184

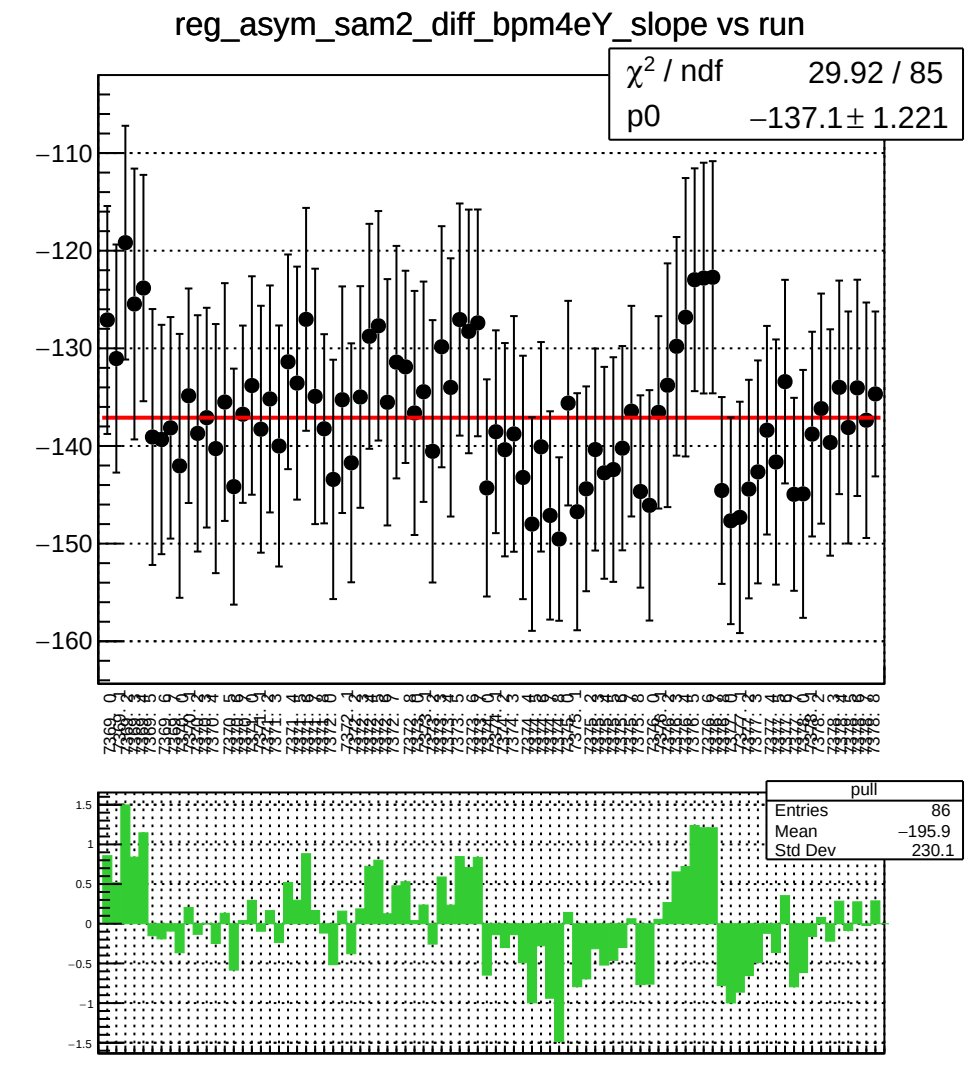

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 24.67 / 85
p0 −52.91 ± 1.034
pull
Entries 86
Mean 62.11
Std Dev 52.78

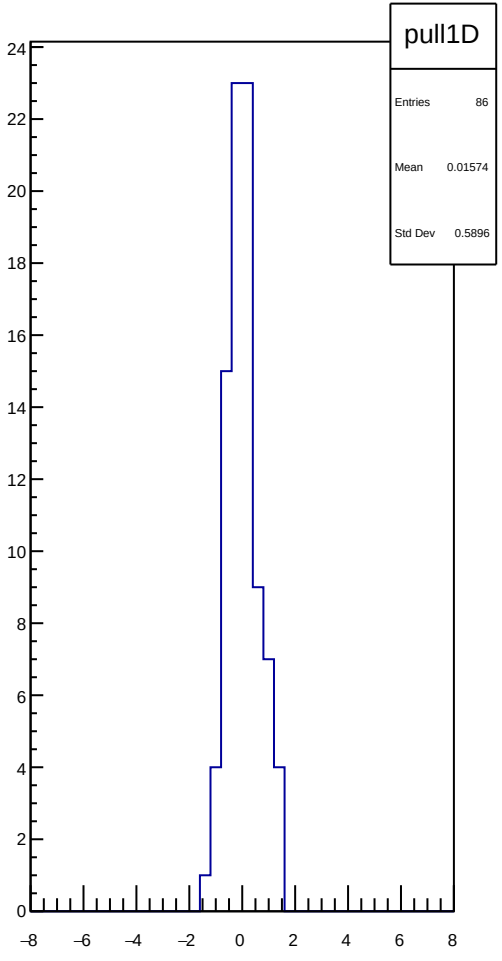

pull1D
Entries 86
Mean 0.03964
Std Dev 0.5341

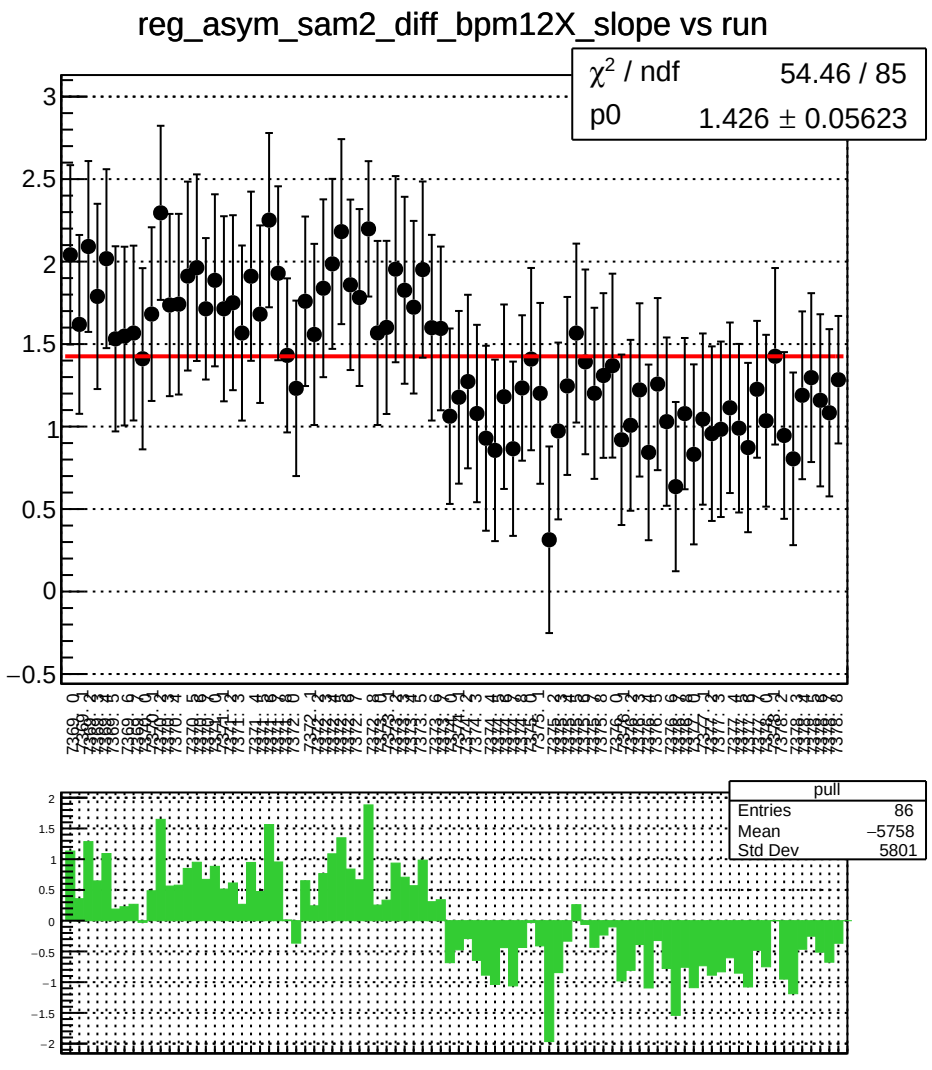

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 19.2 / 85
p0 −22.16 ± 1.143
pull
Entries 86
Mean −114.8
Std Dev 145.5
pull1D
Entries 86
Mean −0.01284
Std Dev 0.4723

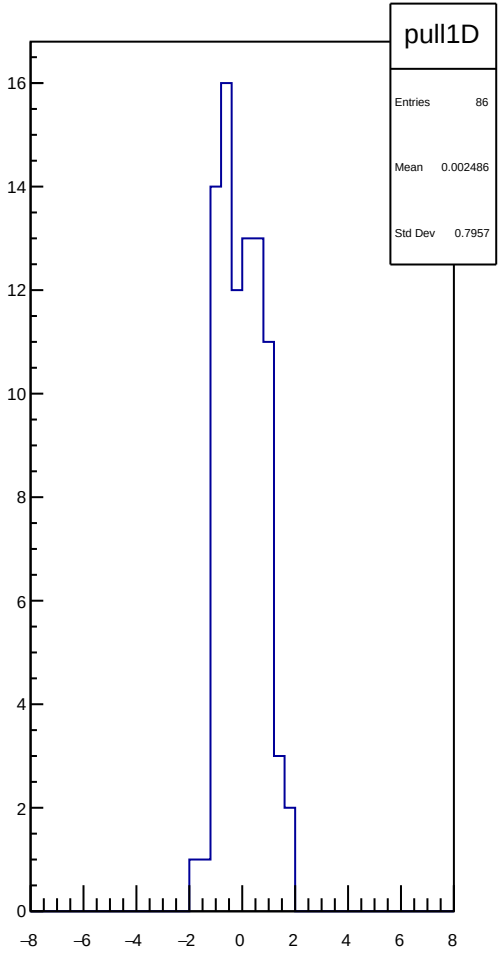

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 19.01 / 85
p0 −107.4 ± 1.075
−90
−100
−110
−120
−130
−140
pull
Entries 86
Mean 132.1
Std Dev 72.88
1
0.5
0
−0.5
−1

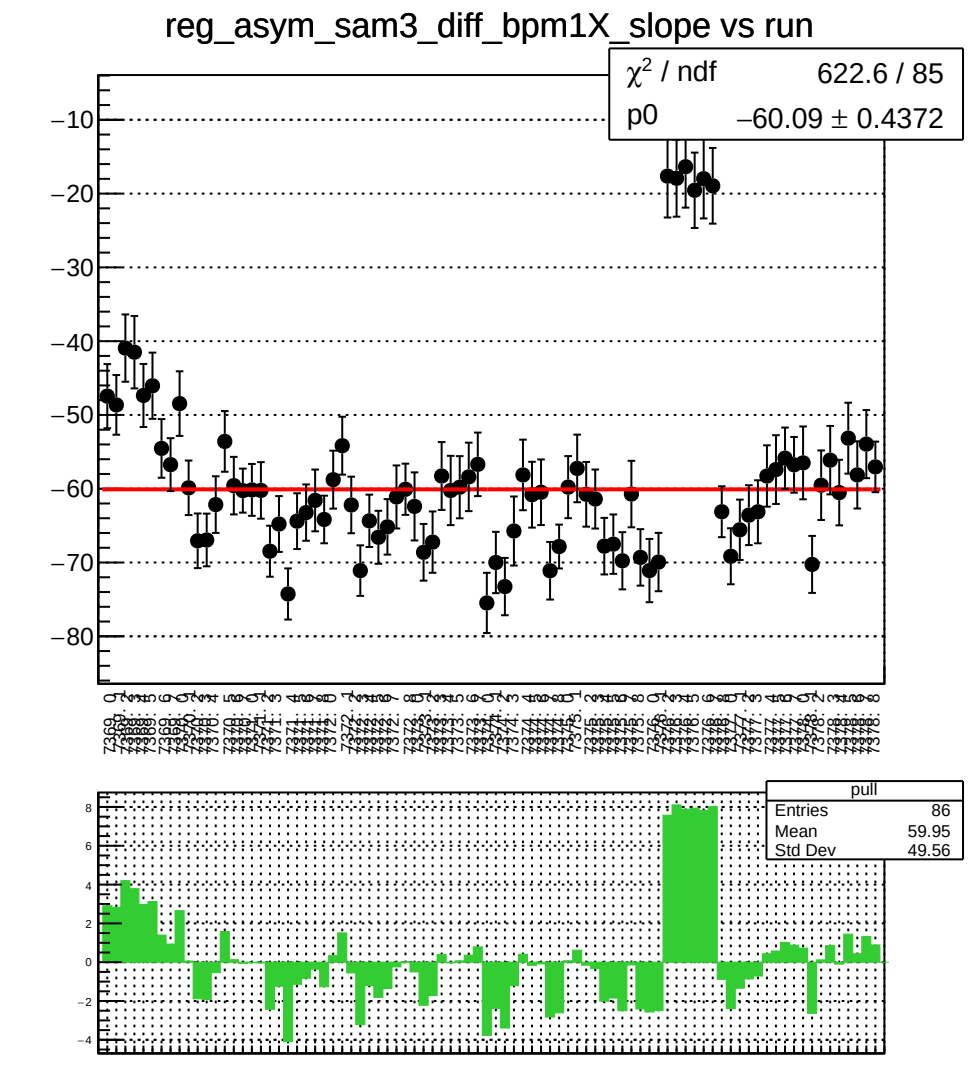

pull1D
Entries 86
Mean −0.02871
Std Dev 0.4692
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

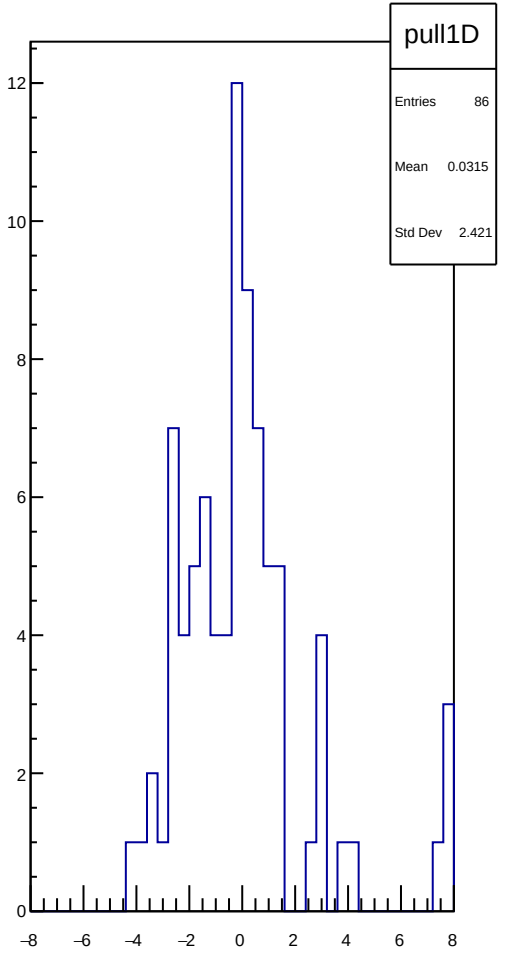

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 29.92 / 85
p0 −137.1 ± 1.221
pull
Entries 86
Mean −195.9
Std Dev 230.1

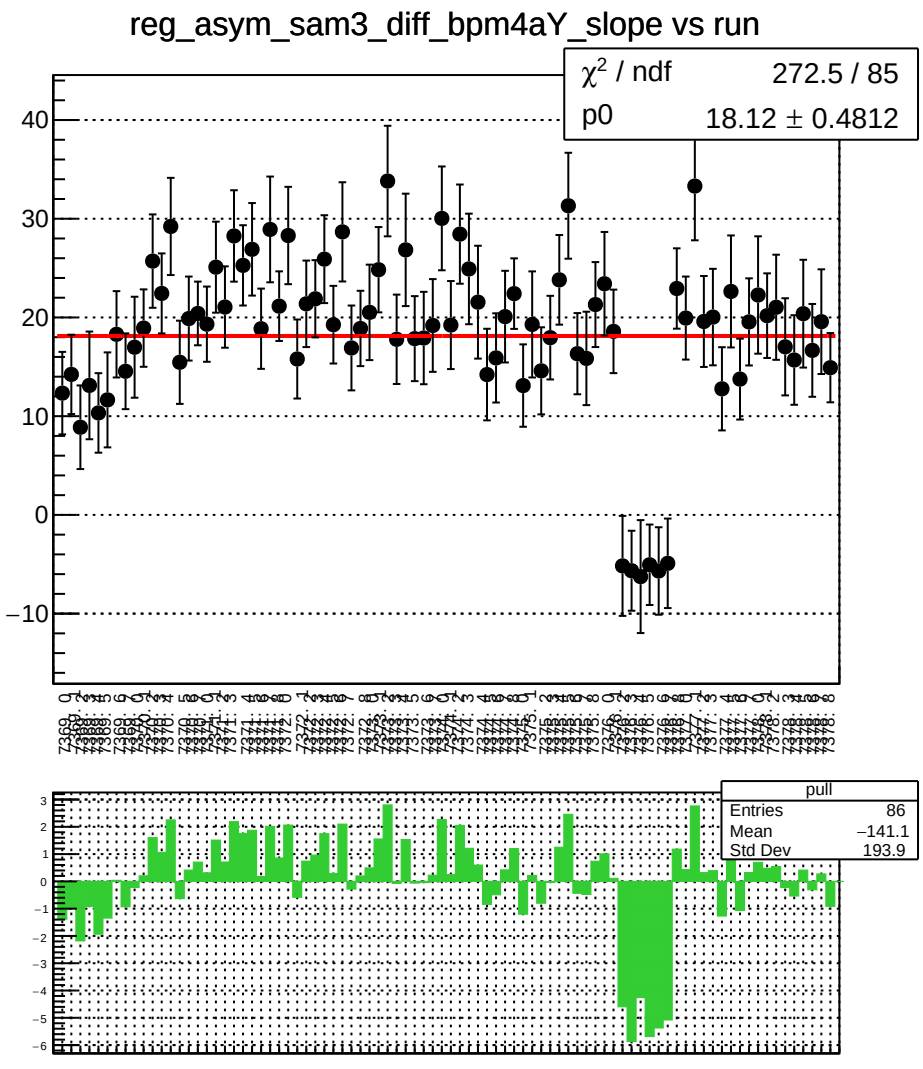

pull1D
Entries 86
Mean 0.01574
Std Dev 0.5896

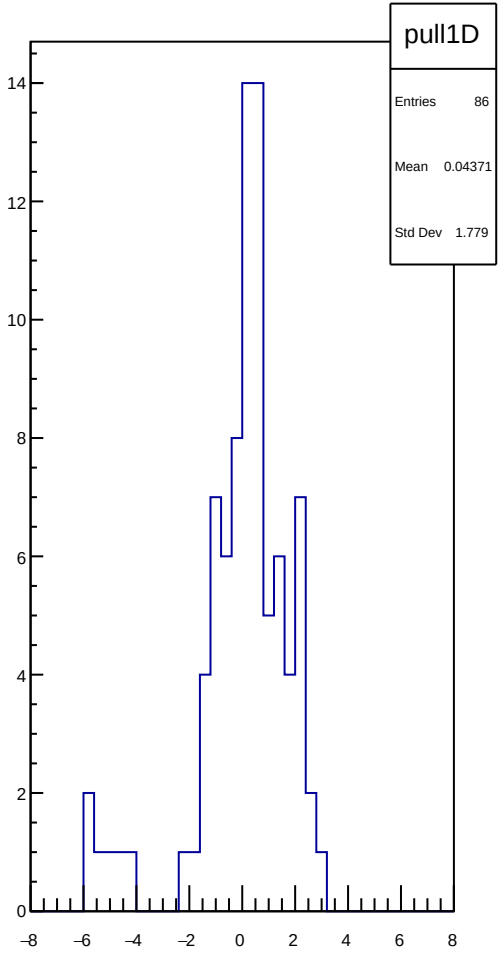

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 54.46 / 85
p0 1.426 ± 0.05623
pull
Entries 86
Mean −5758
Std Dev 5801

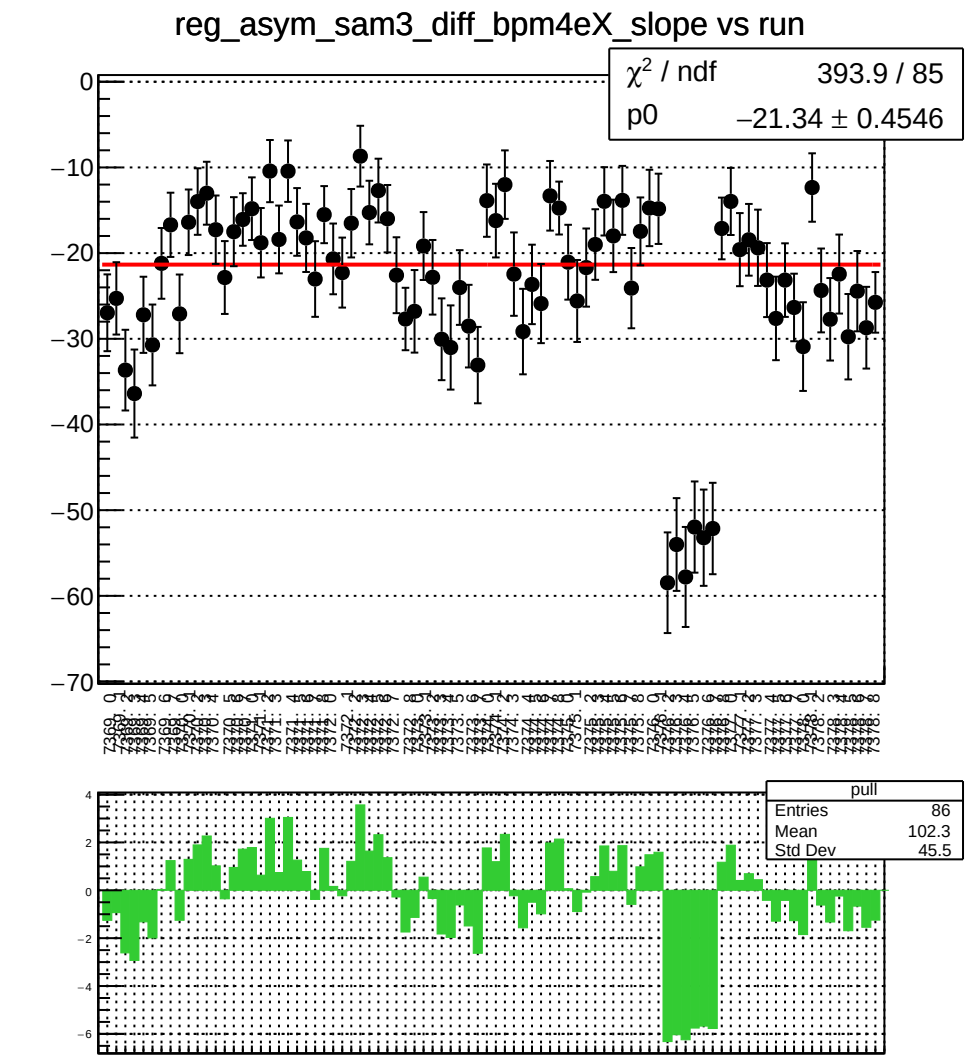

pull1D
Entries 86
Mean 0.002486
Std Dev 0.7957

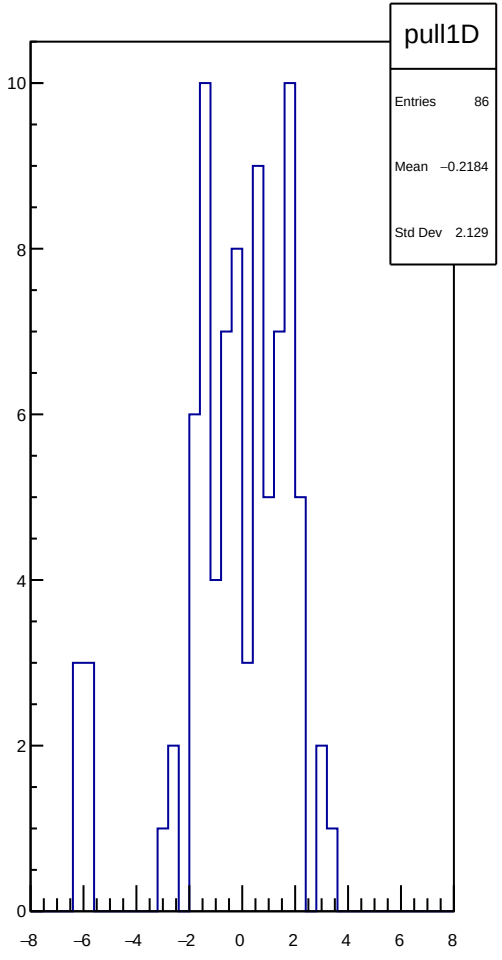

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 622.6 / 85
p0 −60.09 ± 0.4372
pull
Entries 86
Mean 59.95
Std Dev 49.56

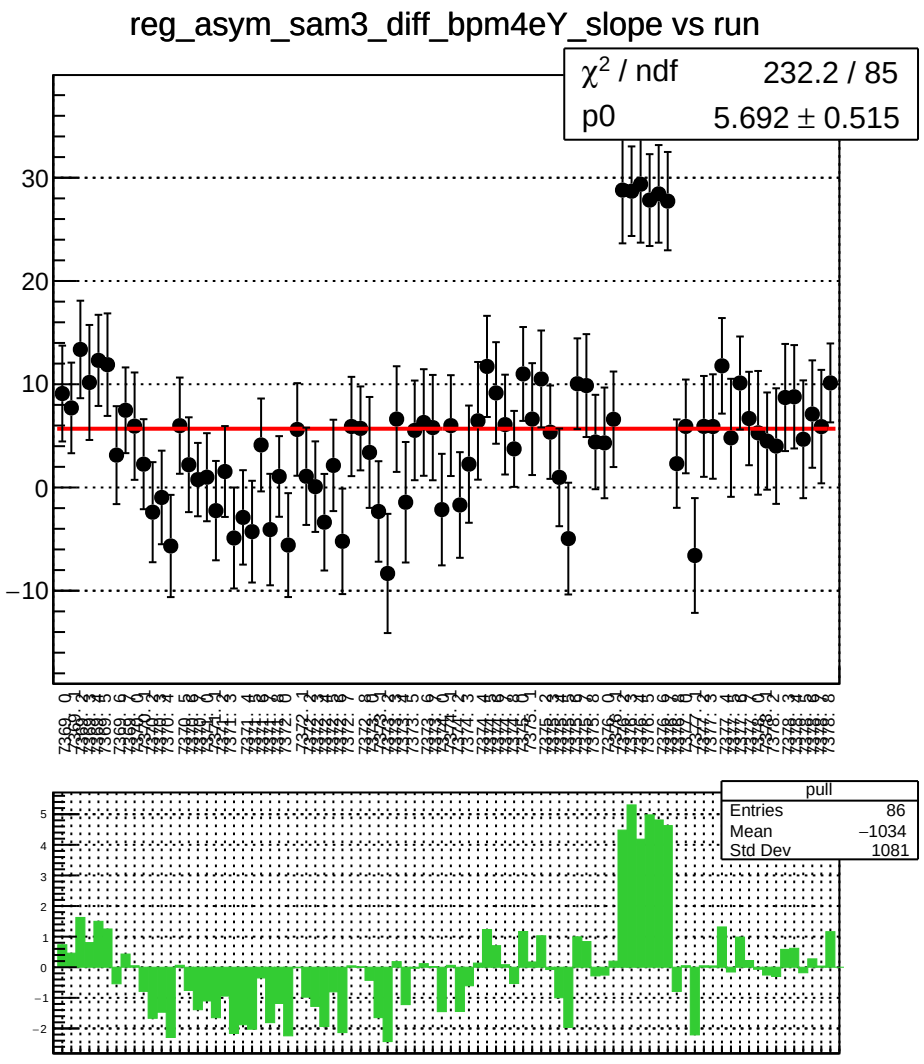

pull1D
Entries 86
Mean 0.0315
Std Dev 2.421

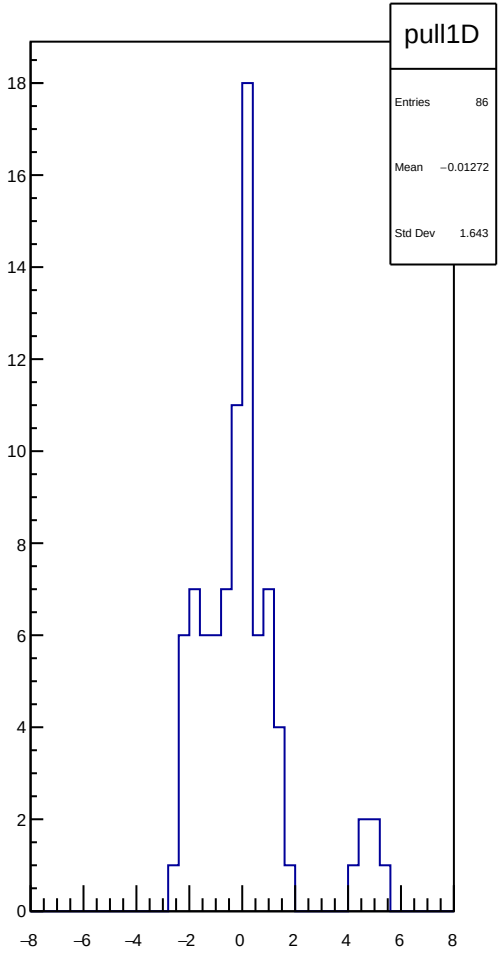

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 272.5 / 85
p0 18.12 ± 0.4812
pull
Entries 86
Mean −141.1
Std Dev 193.9

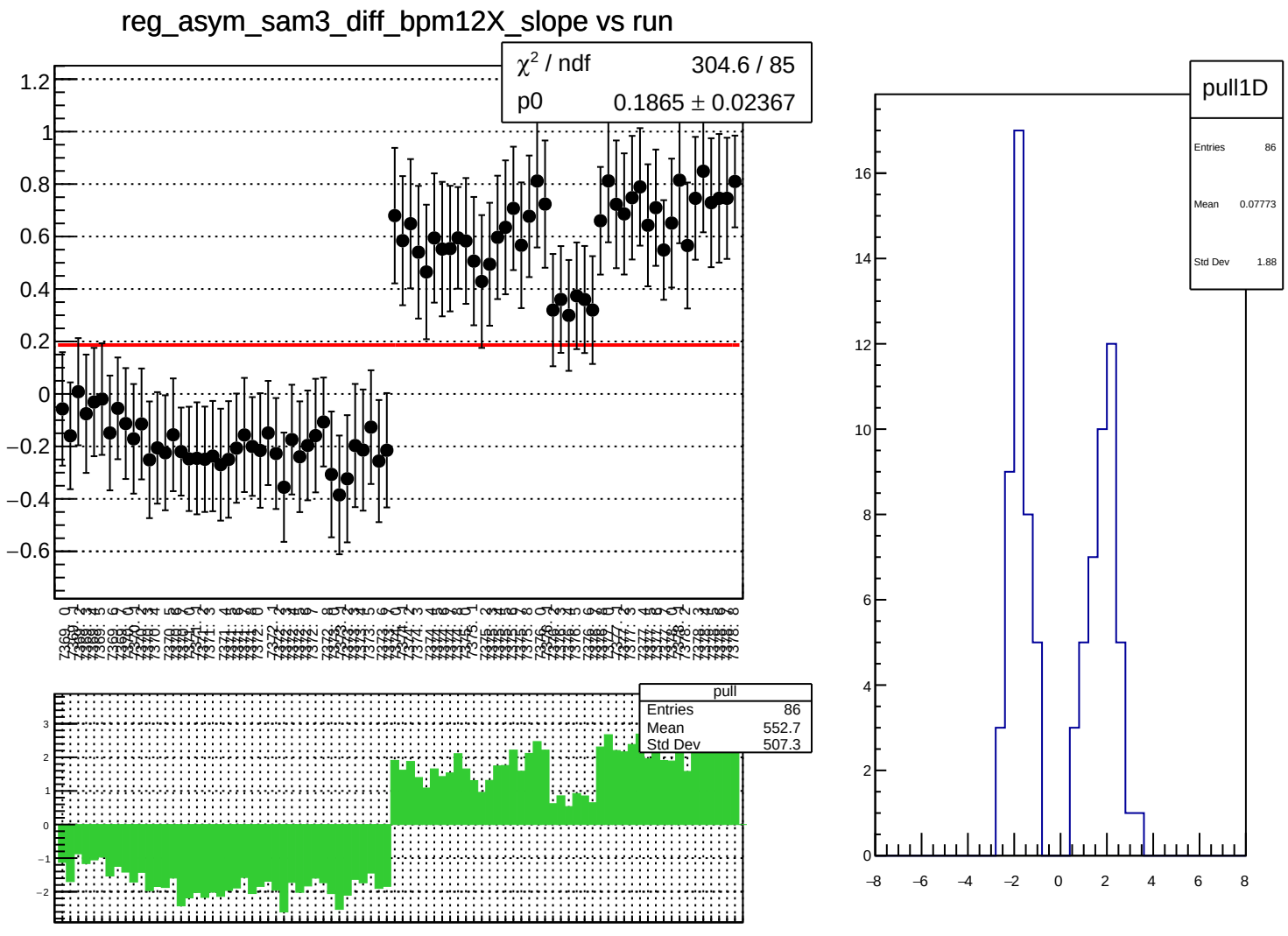

pull1D
Entries 86
Mean 0.04371
Std Dev 1.779

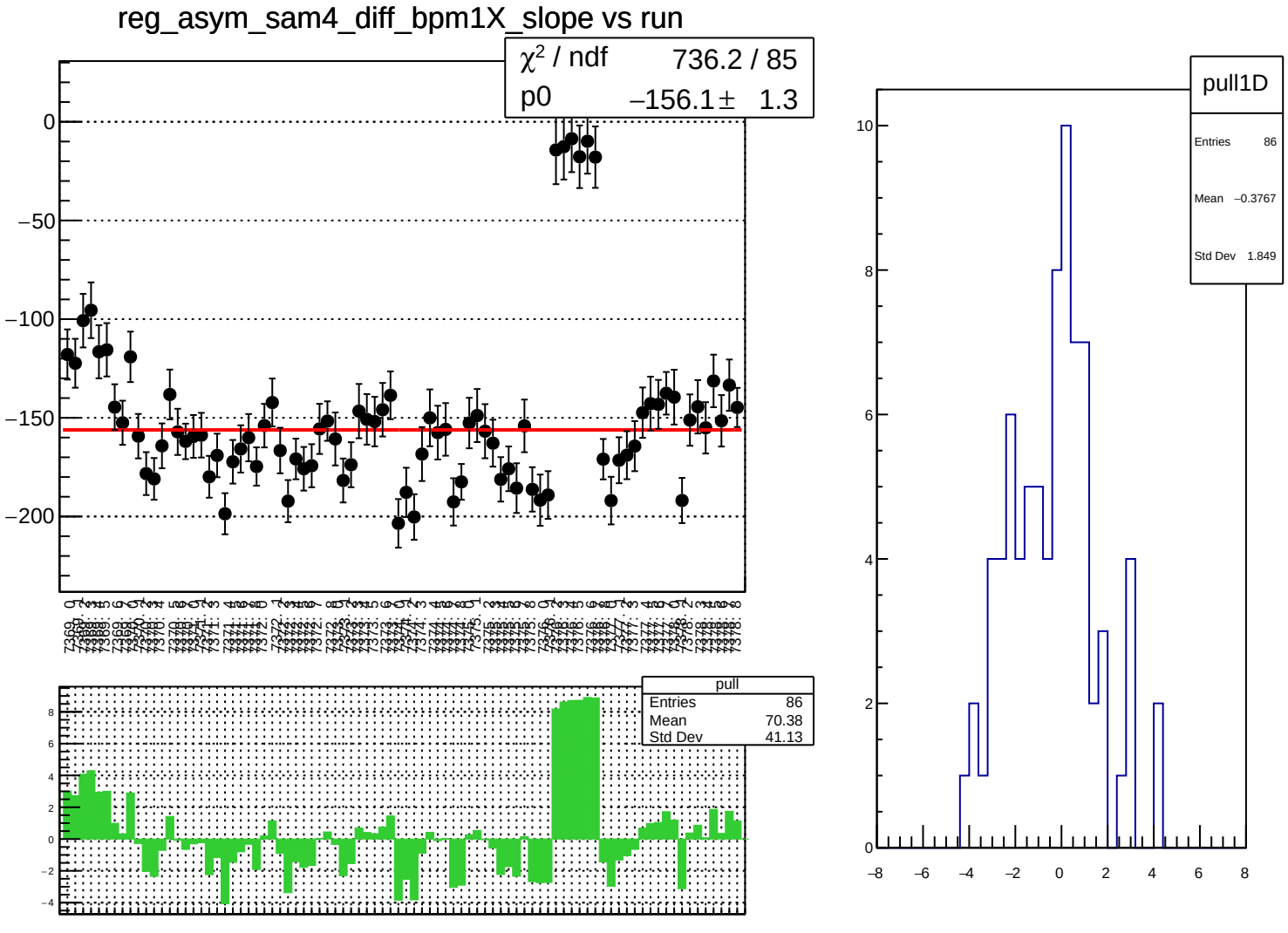

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 393.9 / 85
p0 −21.34 ± 0.4546
pull
Entries 86
Mean 102.3
Std Dev 45.5

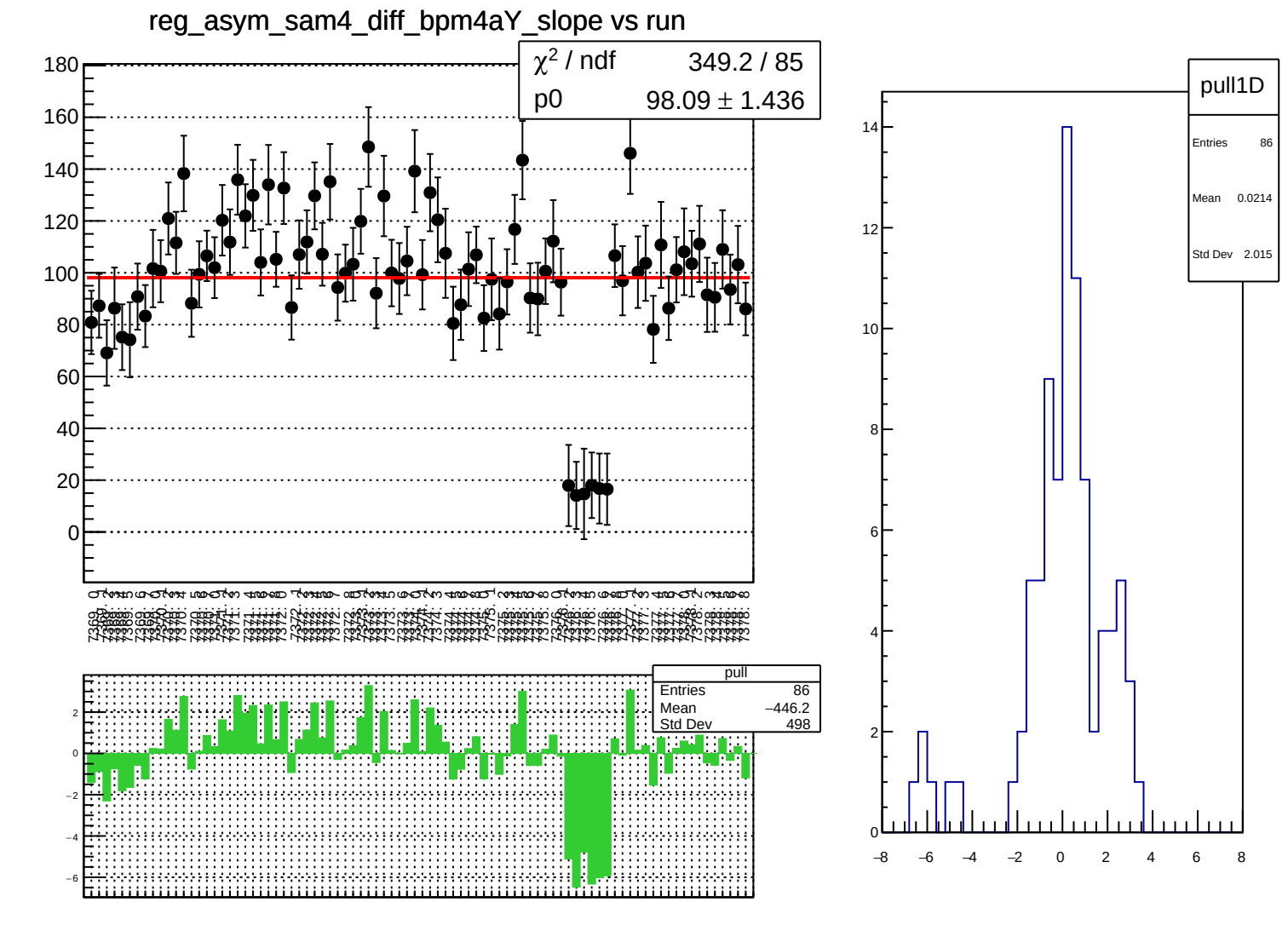

pull1D
Entries 86
Mean −0.2184
Std Dev 2.129

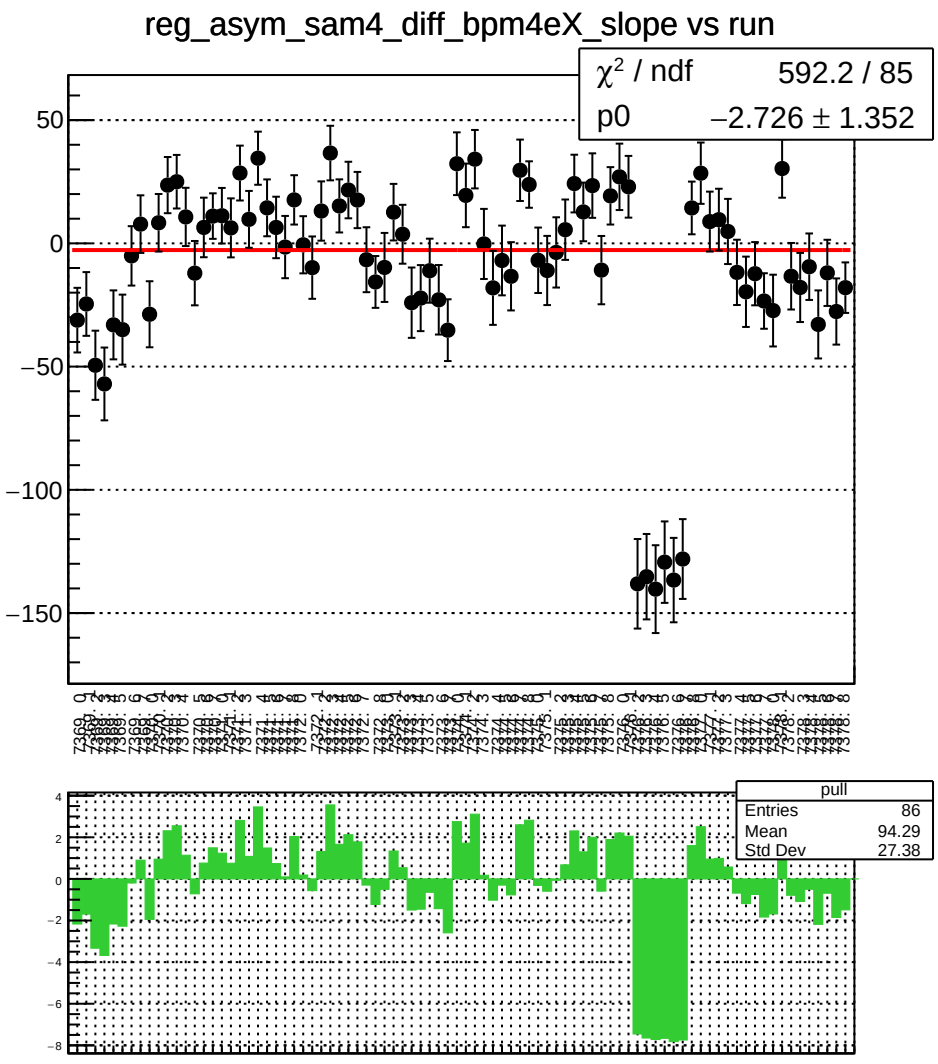

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 232.2 / 85
p0 5.692 ± 0.515
pull
Entries 86
Mean −1034
Std Dev 1081

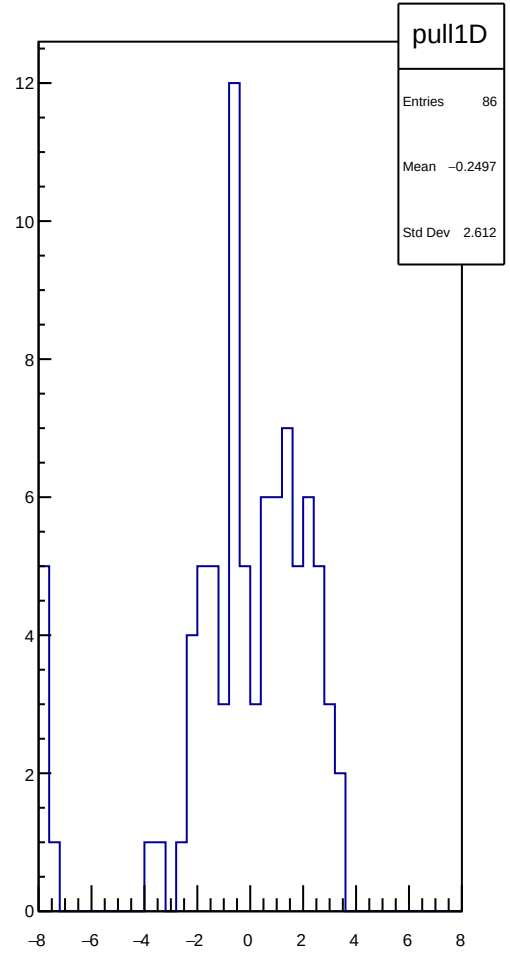

pull1D
Entries 86
Mean −0.01272
Std Dev 1.643

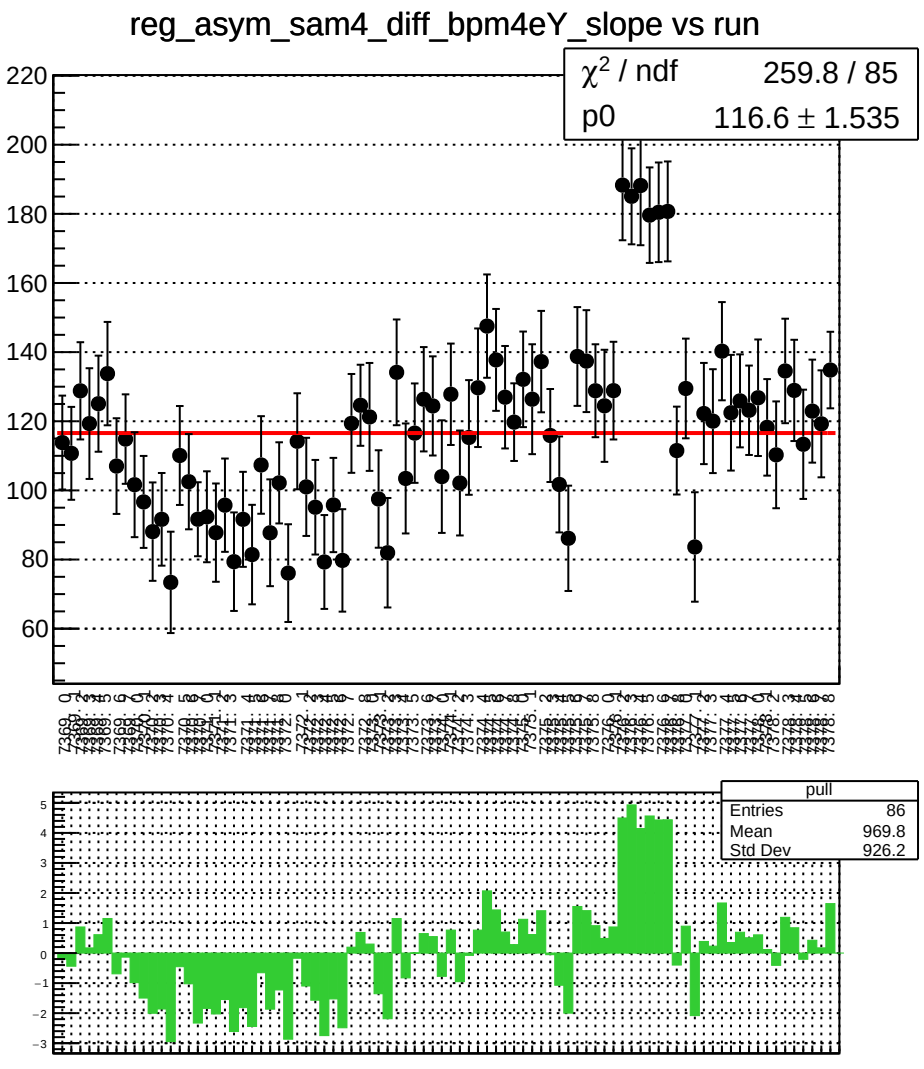

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 304.6 / 85
p0 0.1865 ± 0.02367
pull
Entries 86
Mean 552.7
Std Dev 507.3
pull1D
Entries 86
Mean 0.07773
Std Dev 1.88

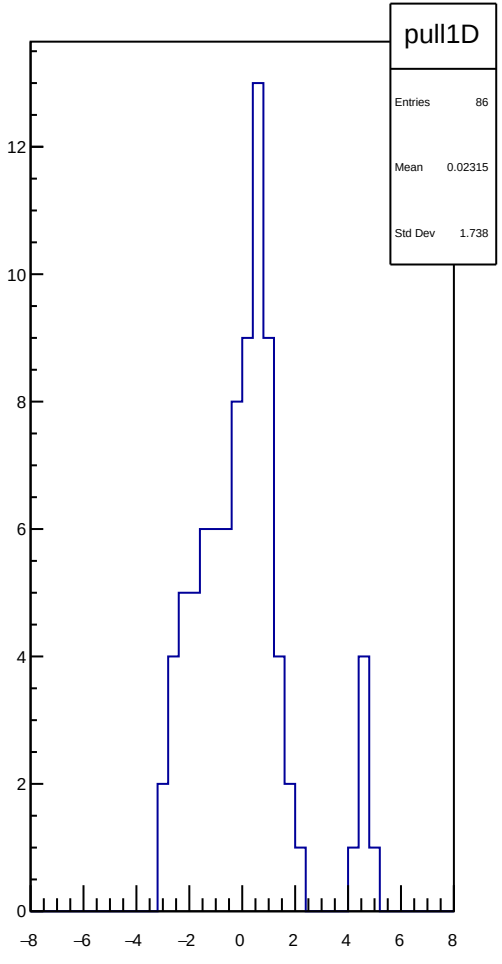

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 736.2 / 85
p0 −156.1 ± 1.3
pull
Entries 86
Mean 70.38
Std Dev 41.13
pull1D
Entries 86
Mean −0.3767
Std Dev 1.849

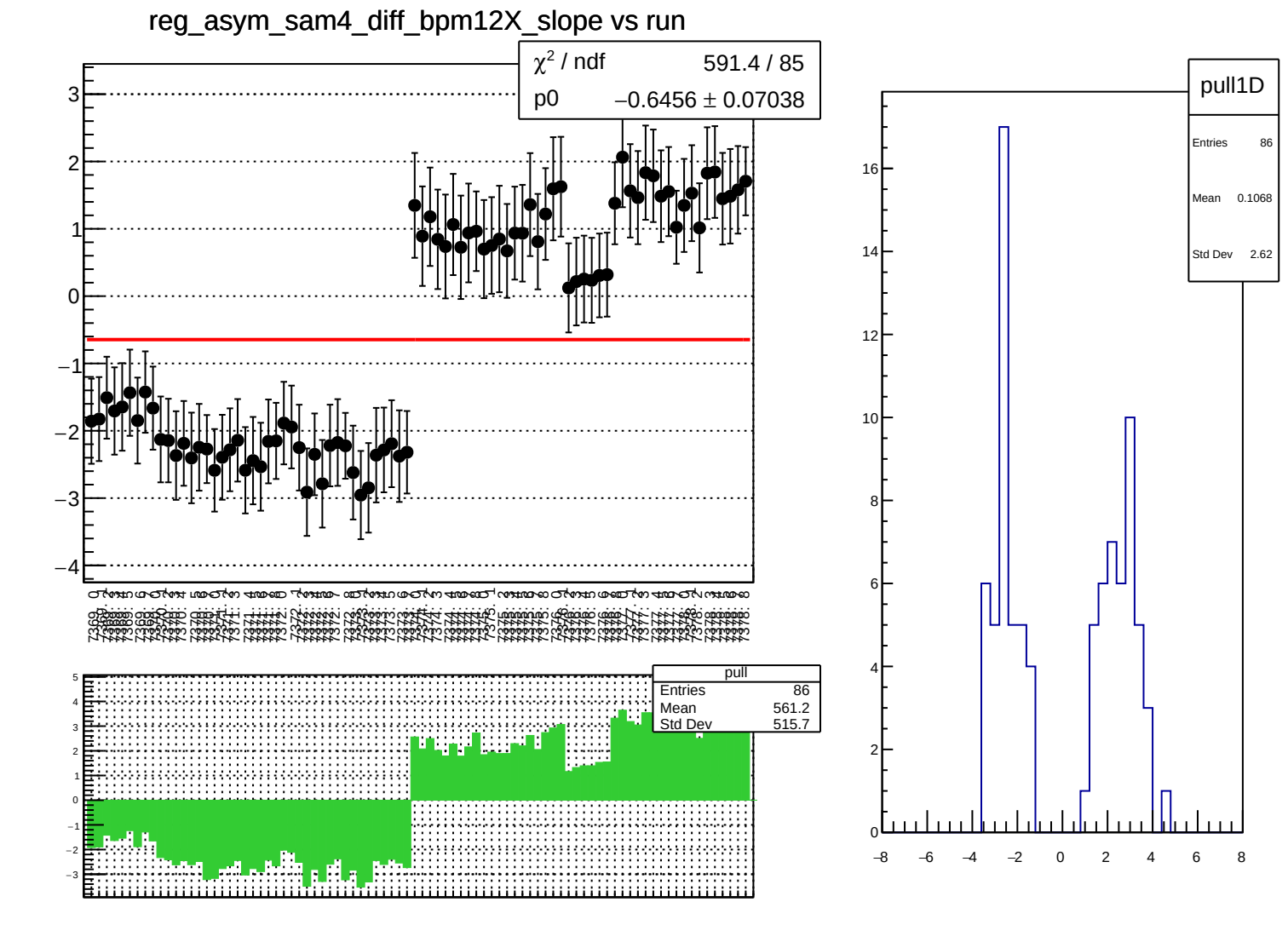

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 349.2 / 85
p0 98.09 ± 1.436
pull
Entries 86
Mean −446.2
Std Dev 498
pull1D
Entries 86
Mean 0.0214
Std Dev 2.015

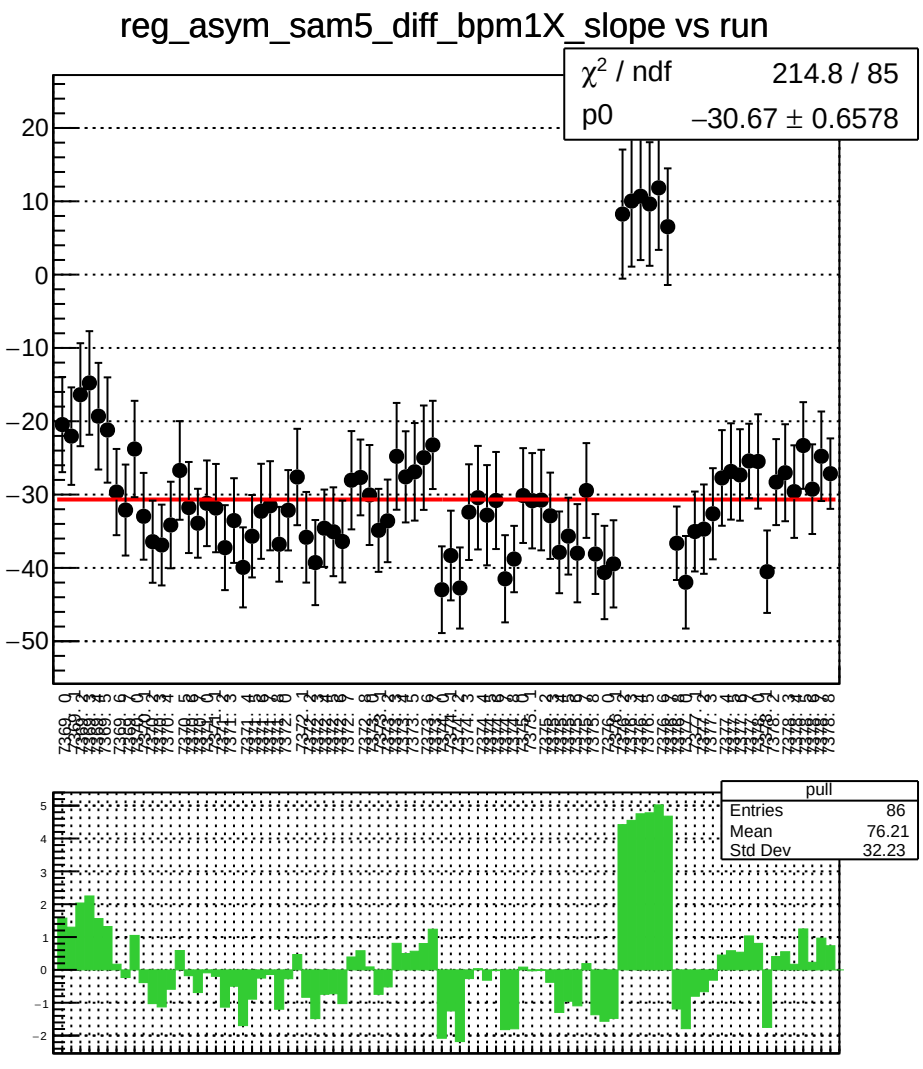

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 592.2 / 85
p0 −2.726 ± 1.352
pull
Entries 86
Mean 94.29
Std Dev 27.38

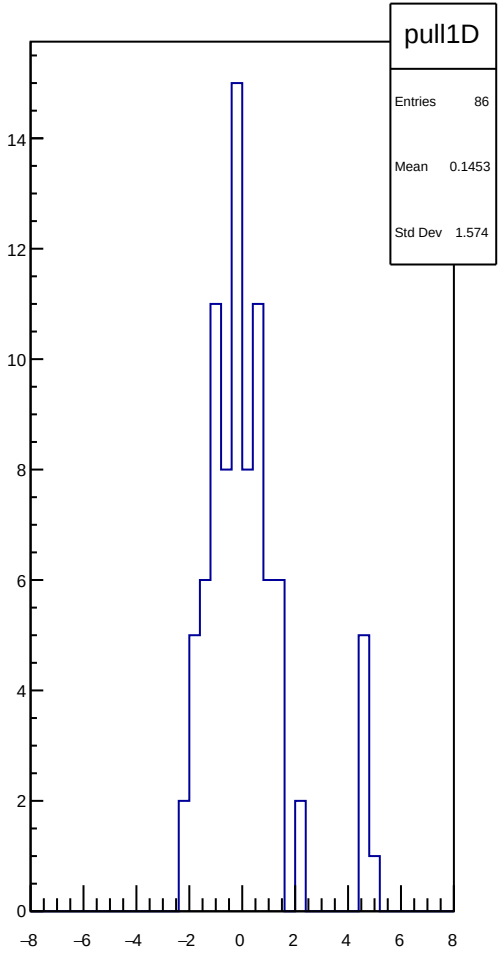

pull1D
Entries 86
Mean −0.2497
Std Dev 2.612

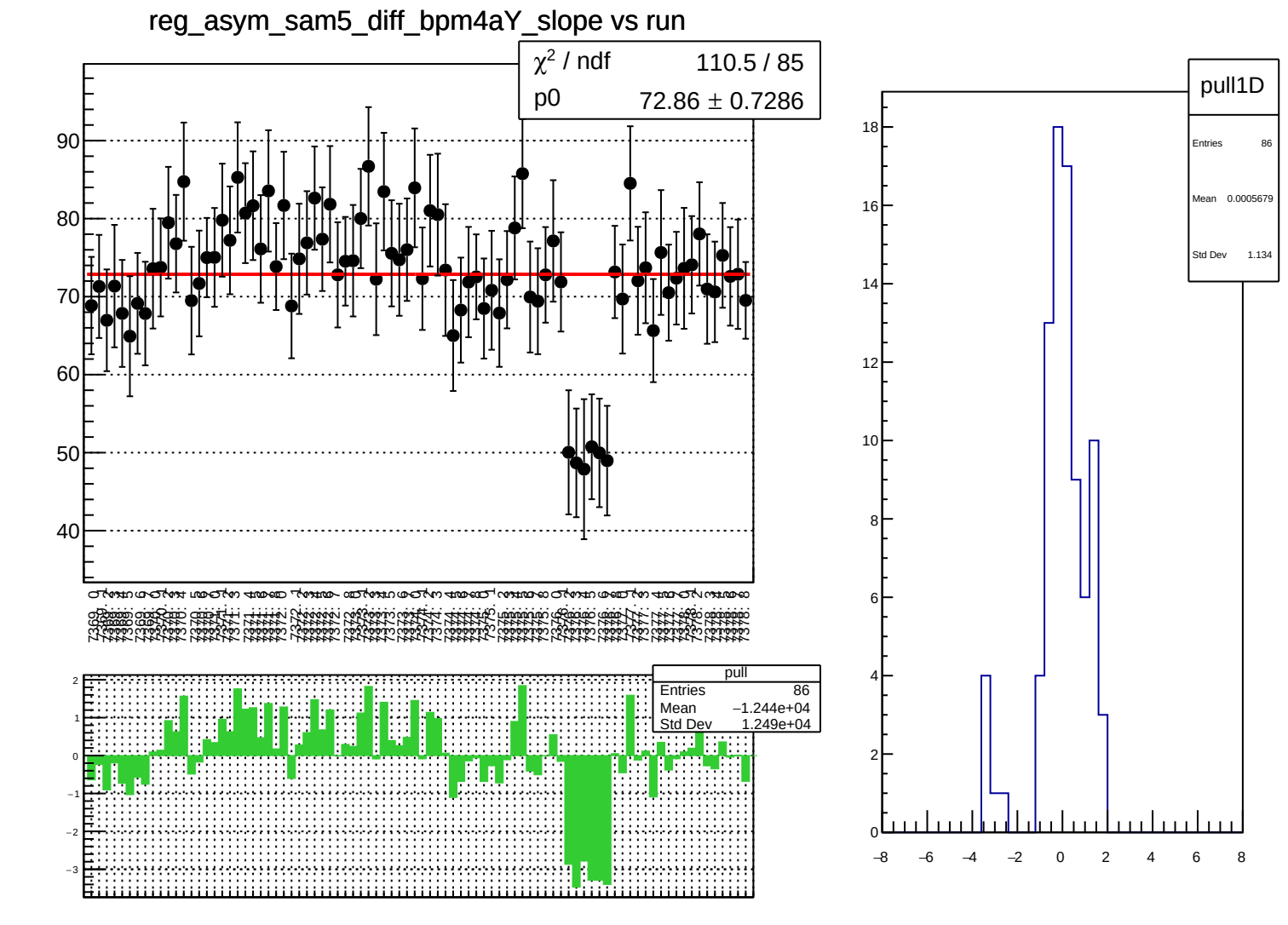

reg_asym_sam4_diff_bpm4eY_slope vs run
χ^2 / ndf 259.8 / 85
p0 116.6 ± 1.535
pull
Entries 86
Mean 969.8
Std Dev 926.2

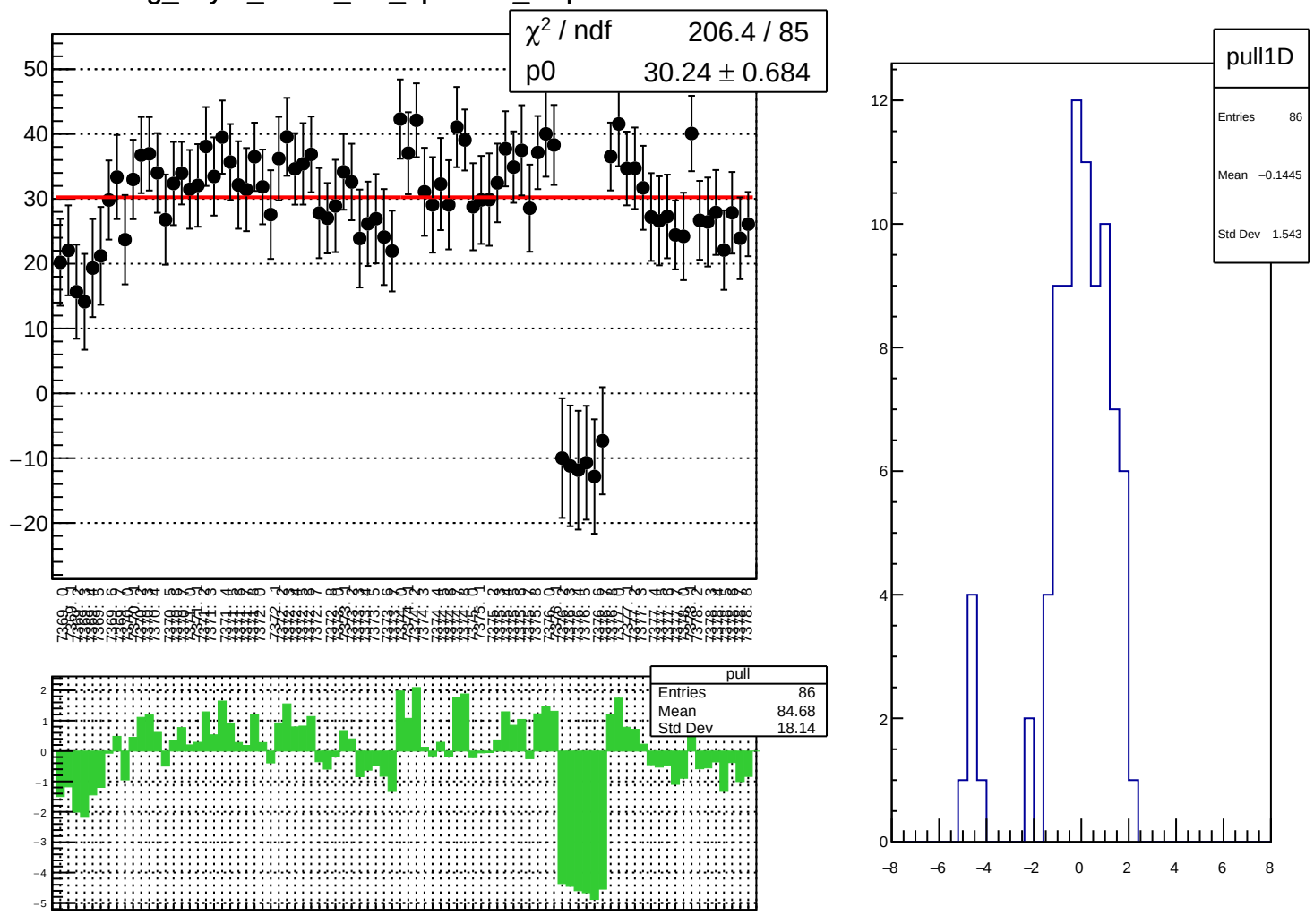

pull1D
Entries 86
Mean 0.02315
Std Dev 1.738

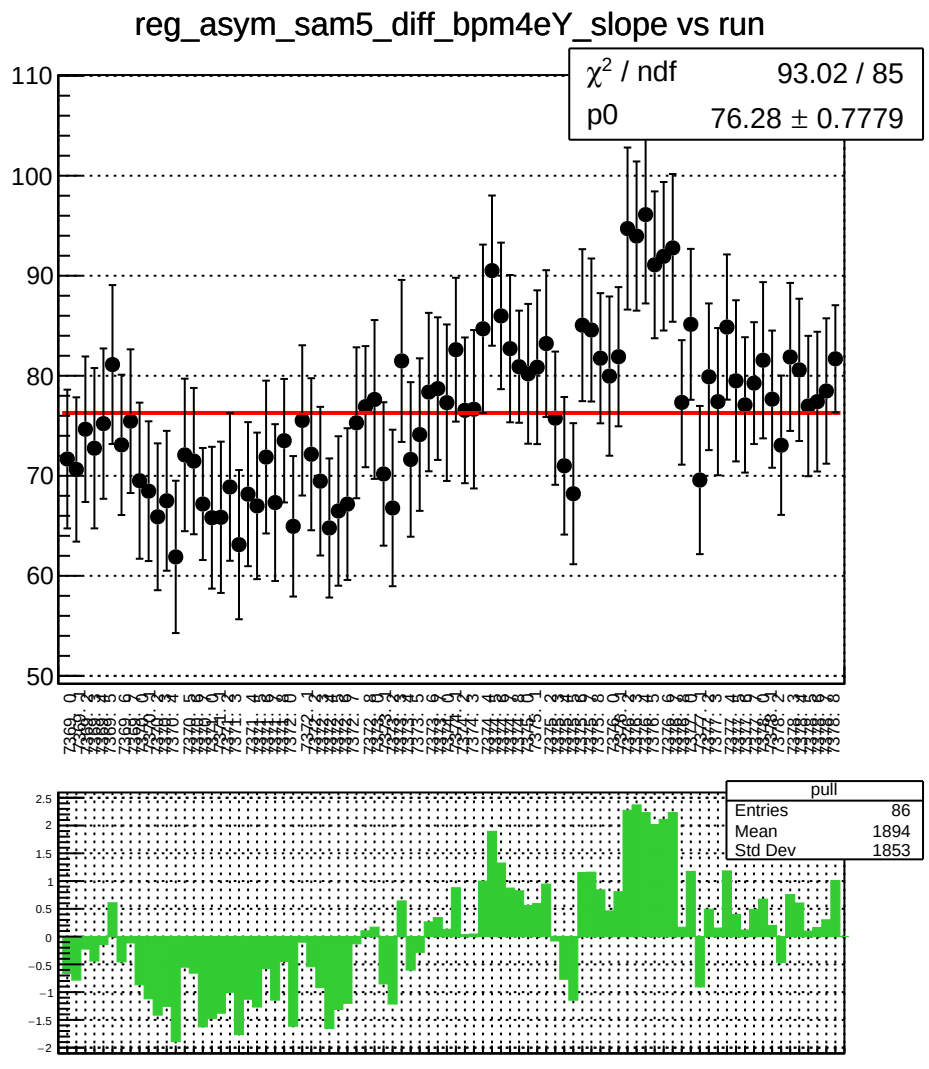

reg_asym_sam4_diff_bpm12X_slope vs run
χ^2 / ndf 591.4 / 85
p0 −0.6456 ± 0.07038
pull
Entries 86
Mean 561.2
Std Dev 515.7
pull1D
Entries 86
Mean 0.1068
Std Dev 2.62

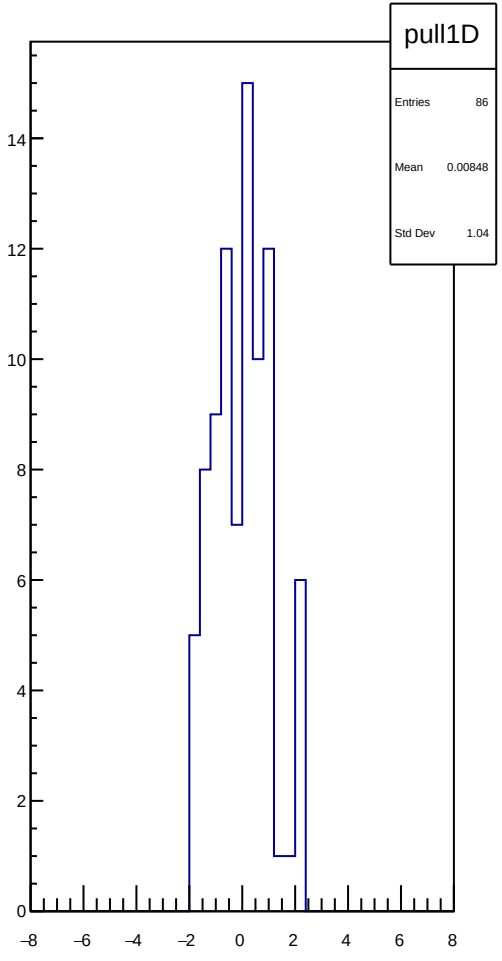

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 214.8 / 85
p0 −30.67 ± 0.6578
pull
Entries 86
Mean 76.21
Std Dev 32.23

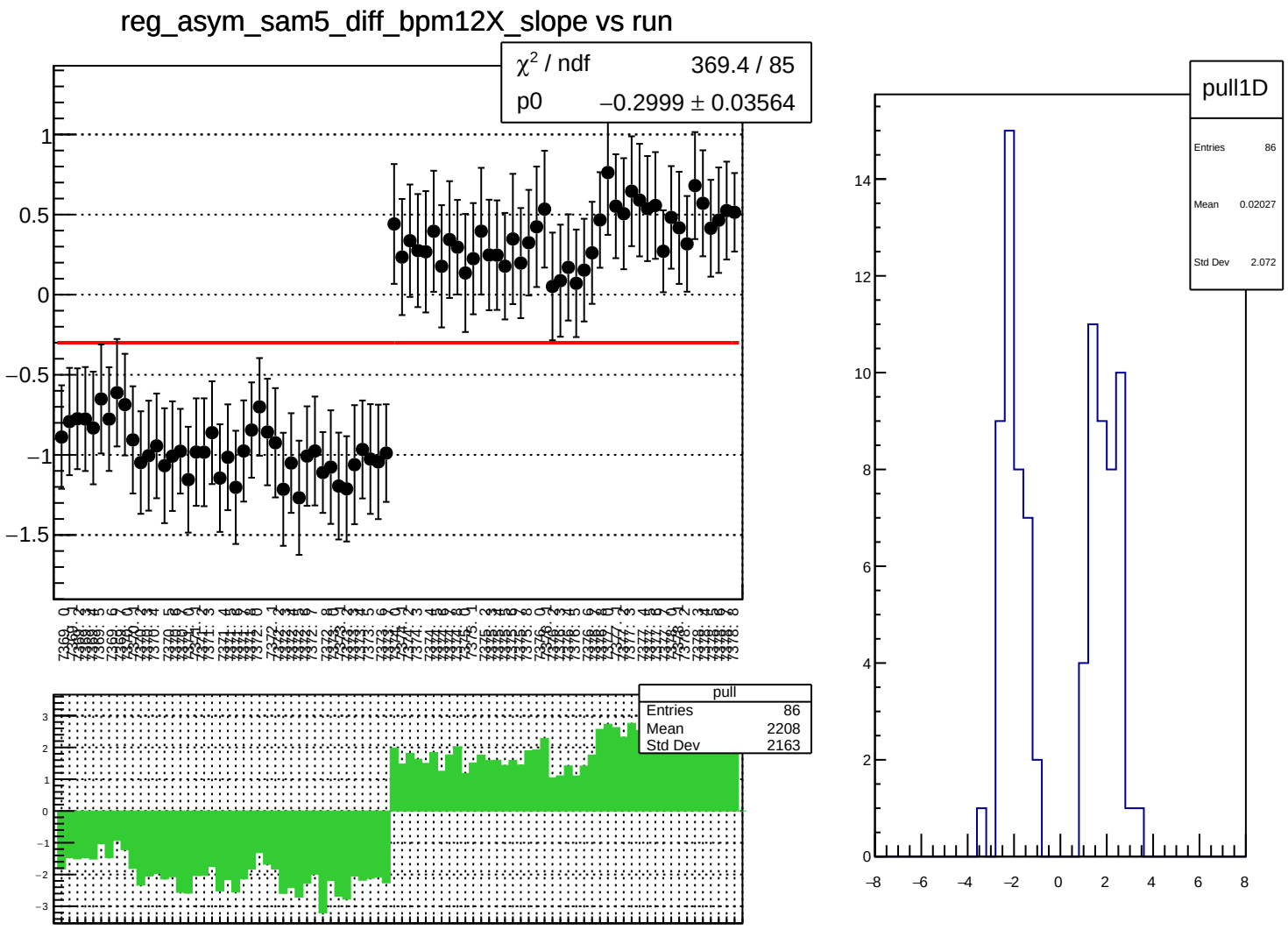

pull1D
Entries 86
Mean 0.1453
Std Dev 1.574

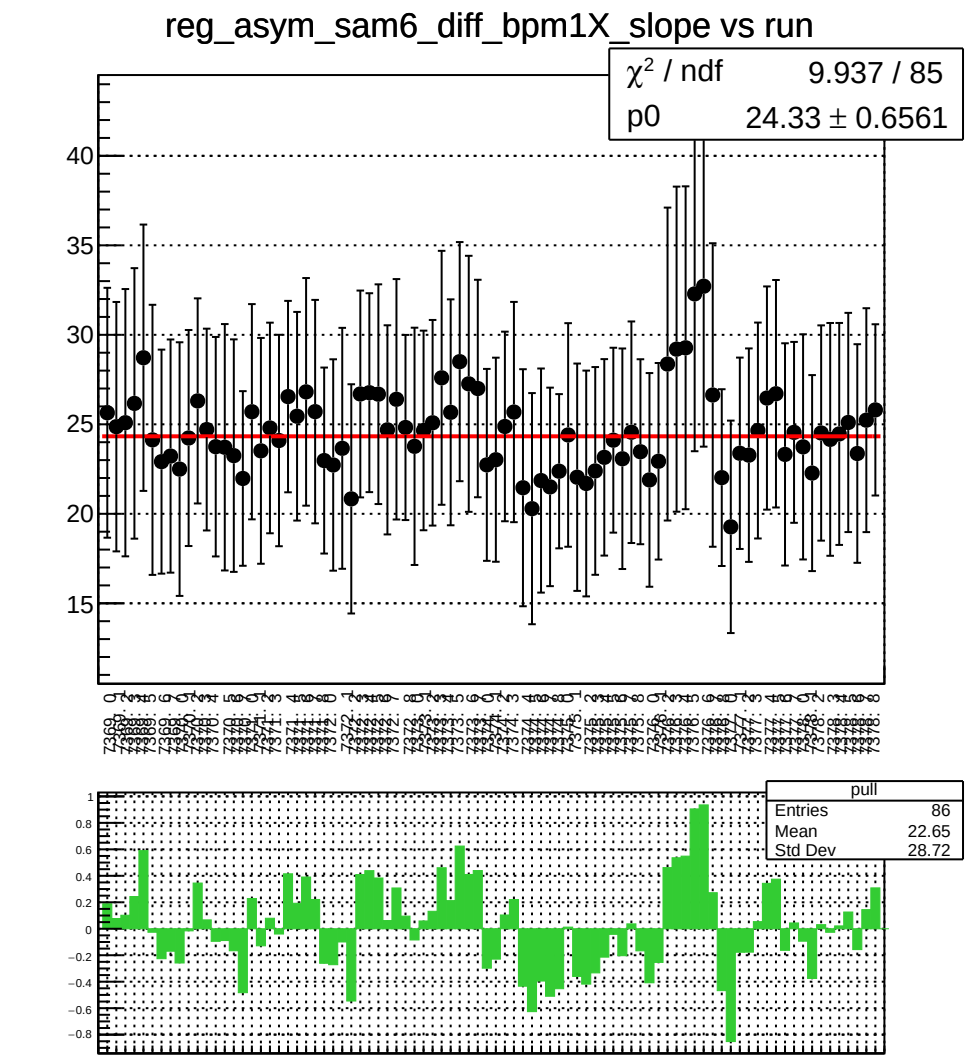

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 110.5 / 85
p0 72.86 ± 0.7286
pull
Entries 86
Mean −1.244e+04
Std Dev 1.249e+04
pull1D
Entries 86
Mean 0.0005679
Std Dev 1.134

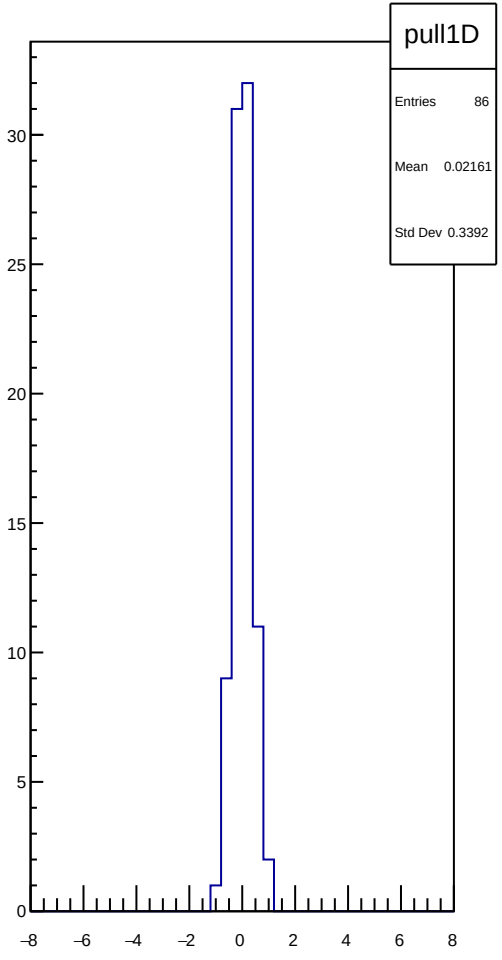

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 206.4 / 85
p0 30.24 ± 0.684
pull
Entries 86
Mean 84.68
Std Dev 18.14
pull1D
Entries 86
Mean −0.1445
Std Dev 1.543

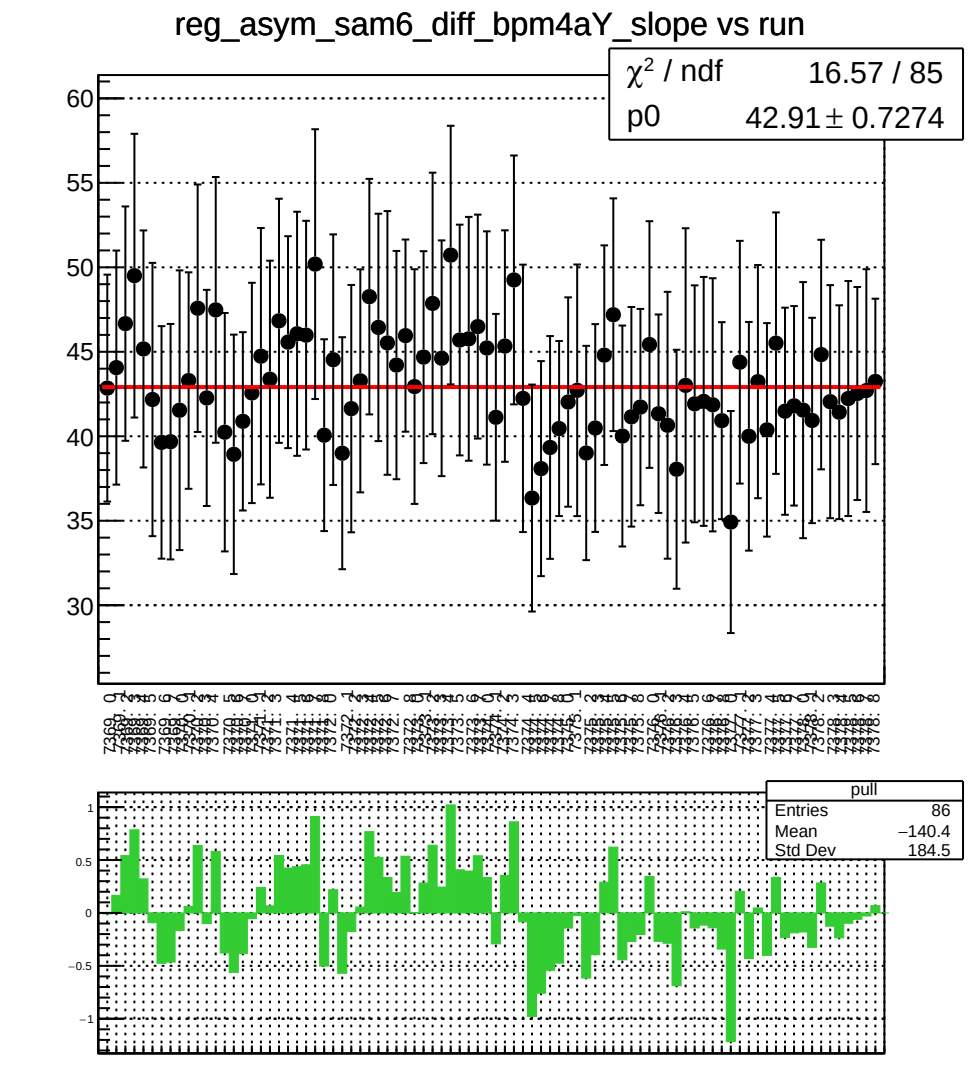

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 93.02 / 85
p0 76.28 ± 0.7779
pull
Entries 86
Mean 1894
Std Dev 1853

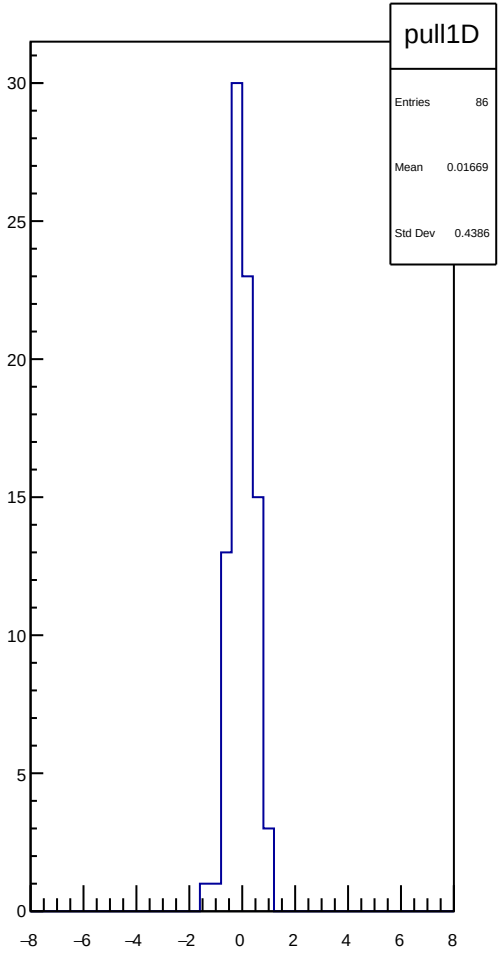

pull1D
Entries 86
Mean 0.00848
Std Dev 1.04

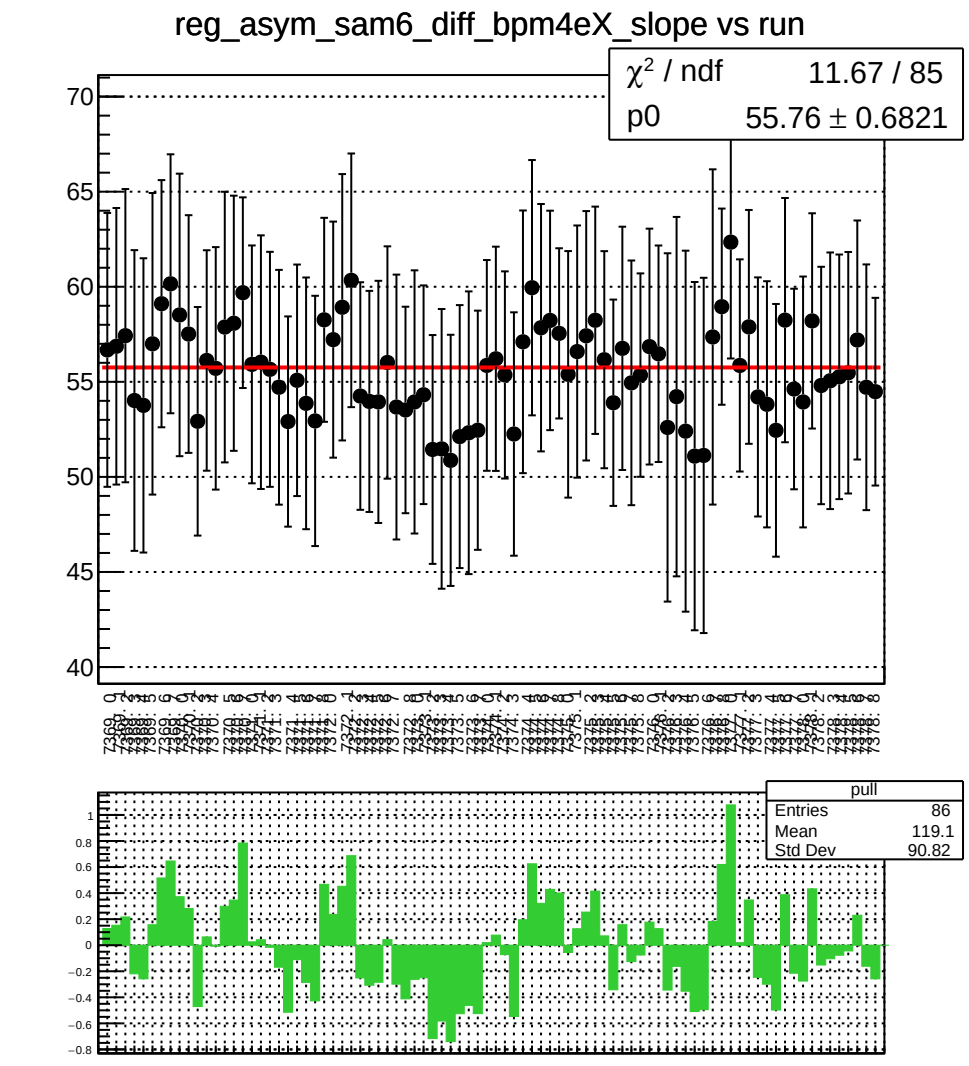

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 369.4 / 85
p0 −0.2999 ± 0.03564
pull
Entries 86
Mean 2208
Std Dev 2163
pull1D
Entries 86
Mean 0.02027
Std Dev 2.072

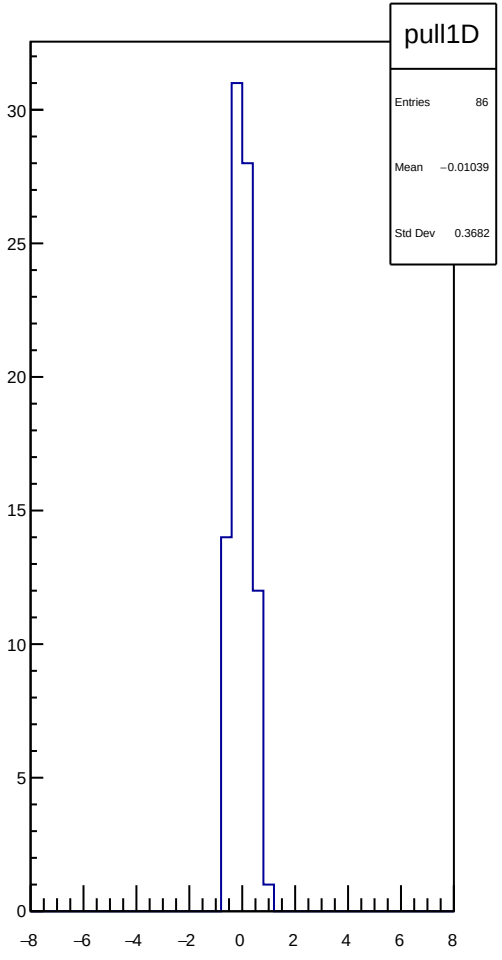

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 9.937 / 85
p0 24.33 ± 0.6561
pull
Entries 86
Mean 22.65
Std Dev 28.72

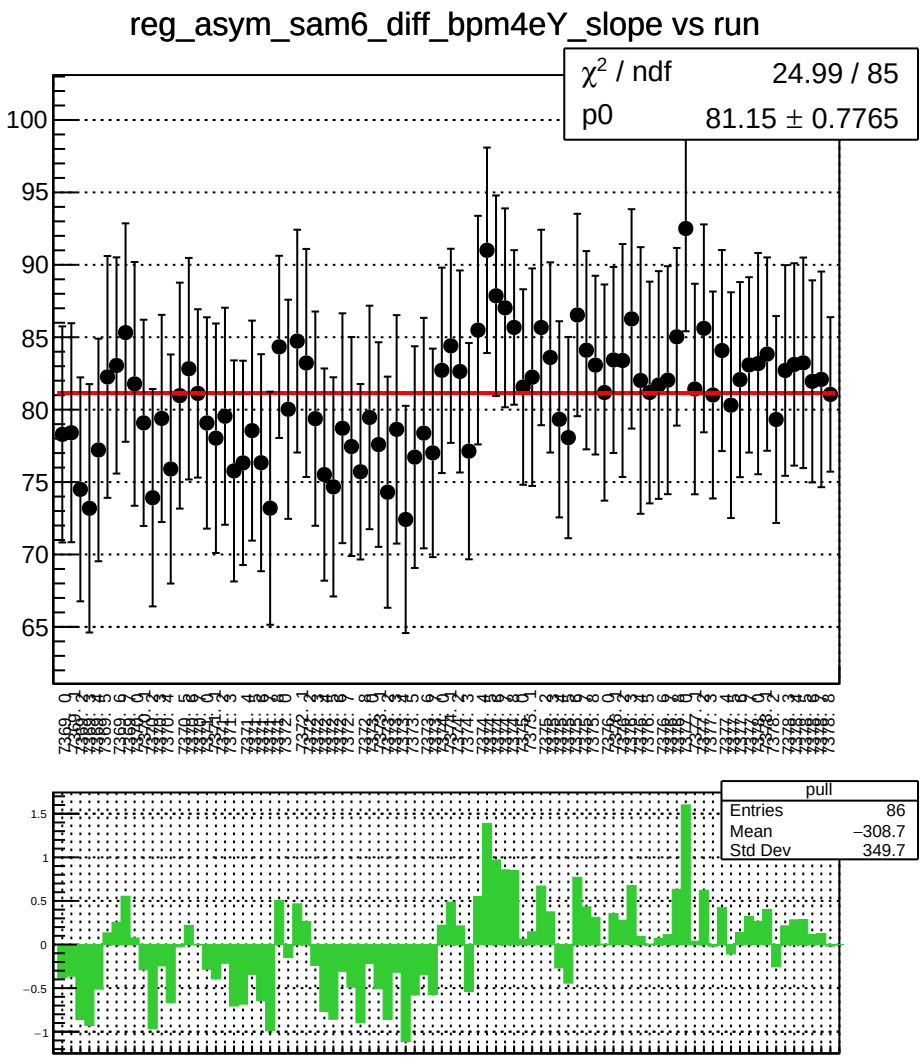

pull1D
Entries 86
Mean 0.02161
Std Dev 0.3392

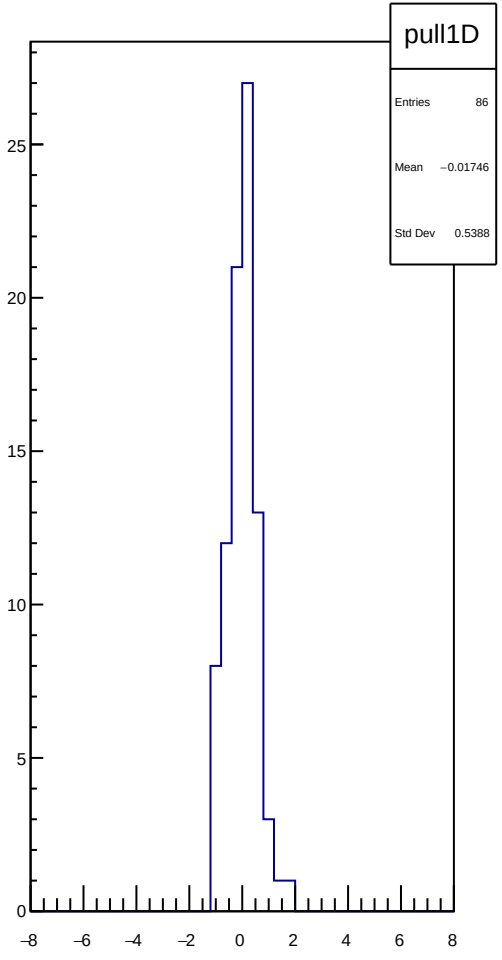

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 16.57 / 85
p0 42.91 ± 0.7274
pull
Entries 86
Mean −140.4
Std Dev 184.5

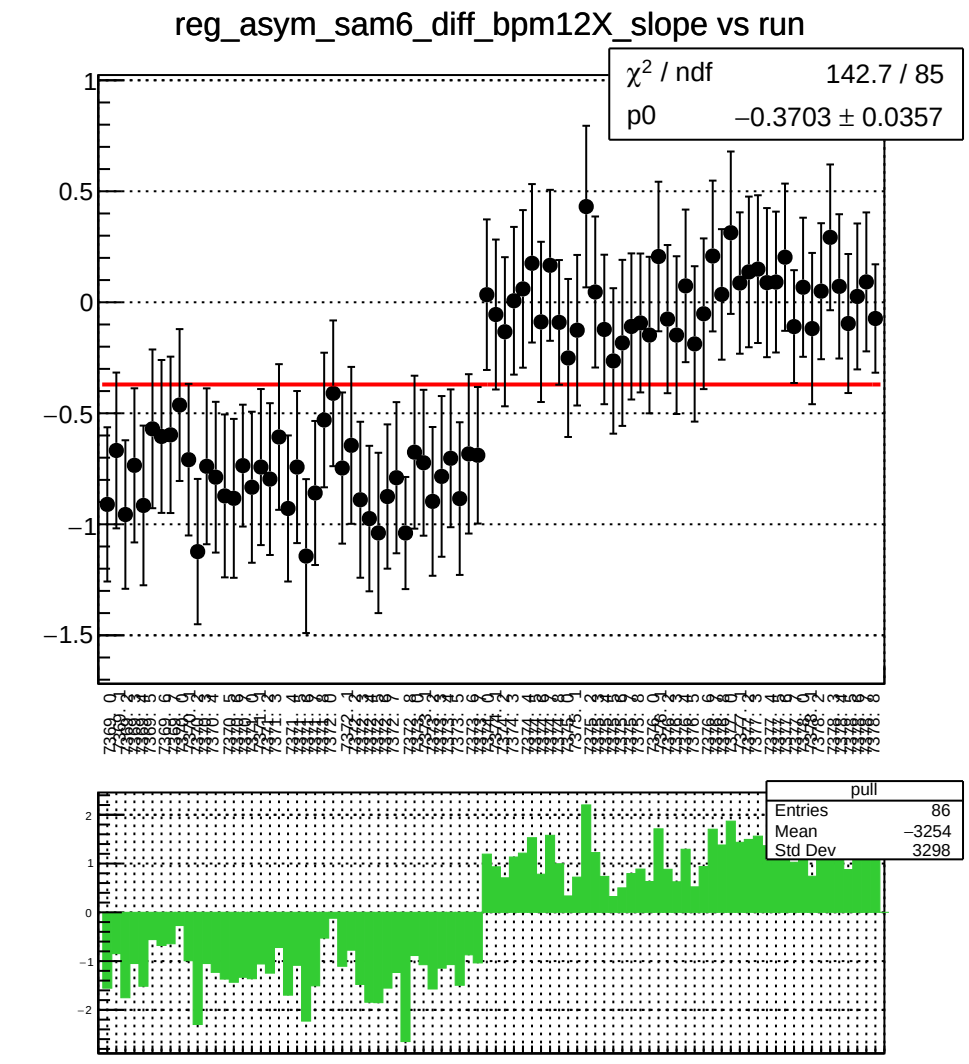

pull1D
Entries 86
Mean 0.01669
Std Dev 0.4386

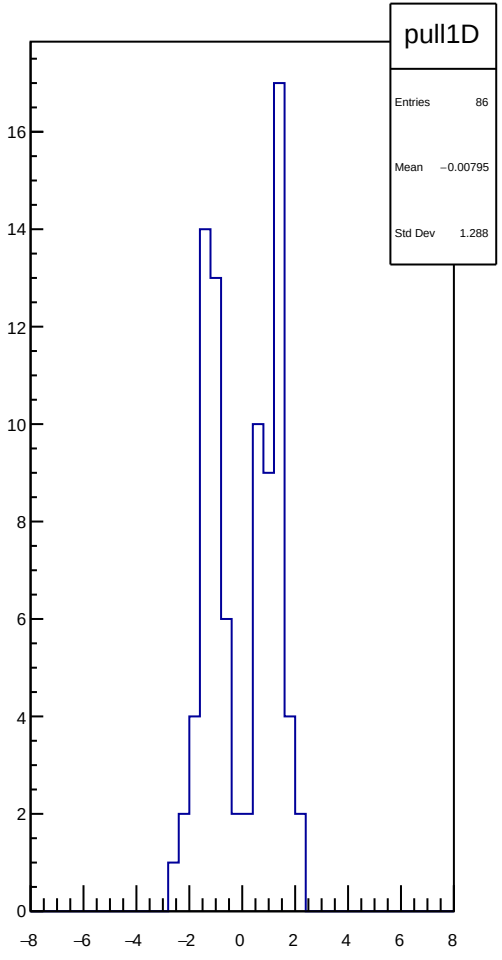

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 11.67 / 85
p0 55.76 ± 0.6821
pull
Entries 86
Mean 119.1
Std Dev 90.82

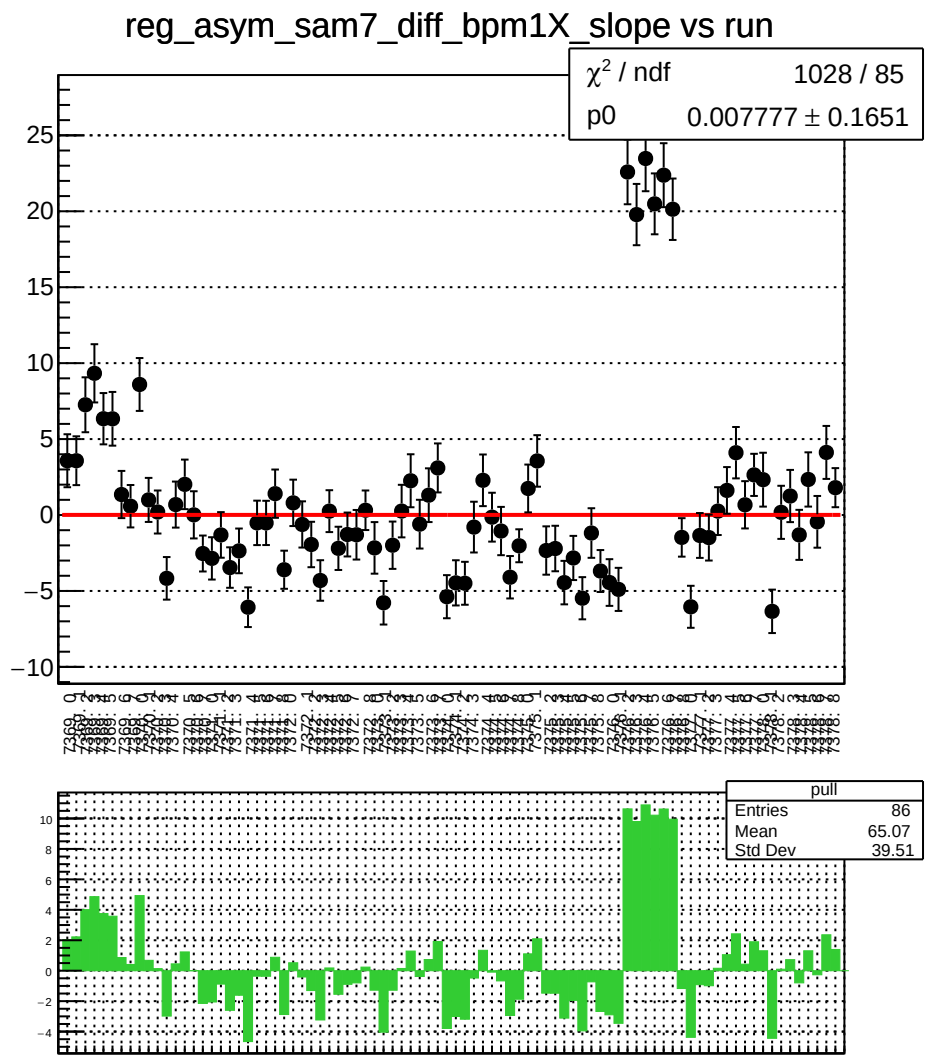

pull1D
Entries 86
Mean −0.01039
Std Dev 0.3682

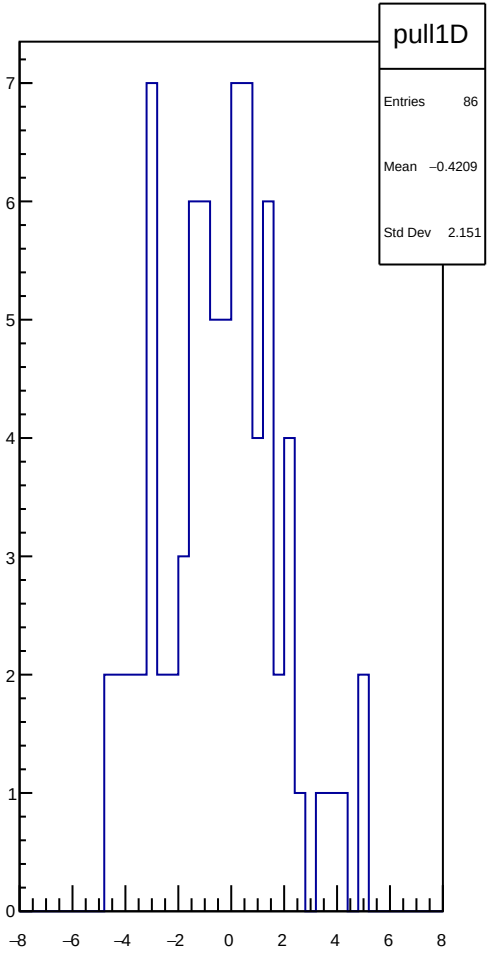

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 24.99 / 85
p0 81.15 ± 0.7765
pull
Entries 86
Mean −308.7
Std Dev 349.7

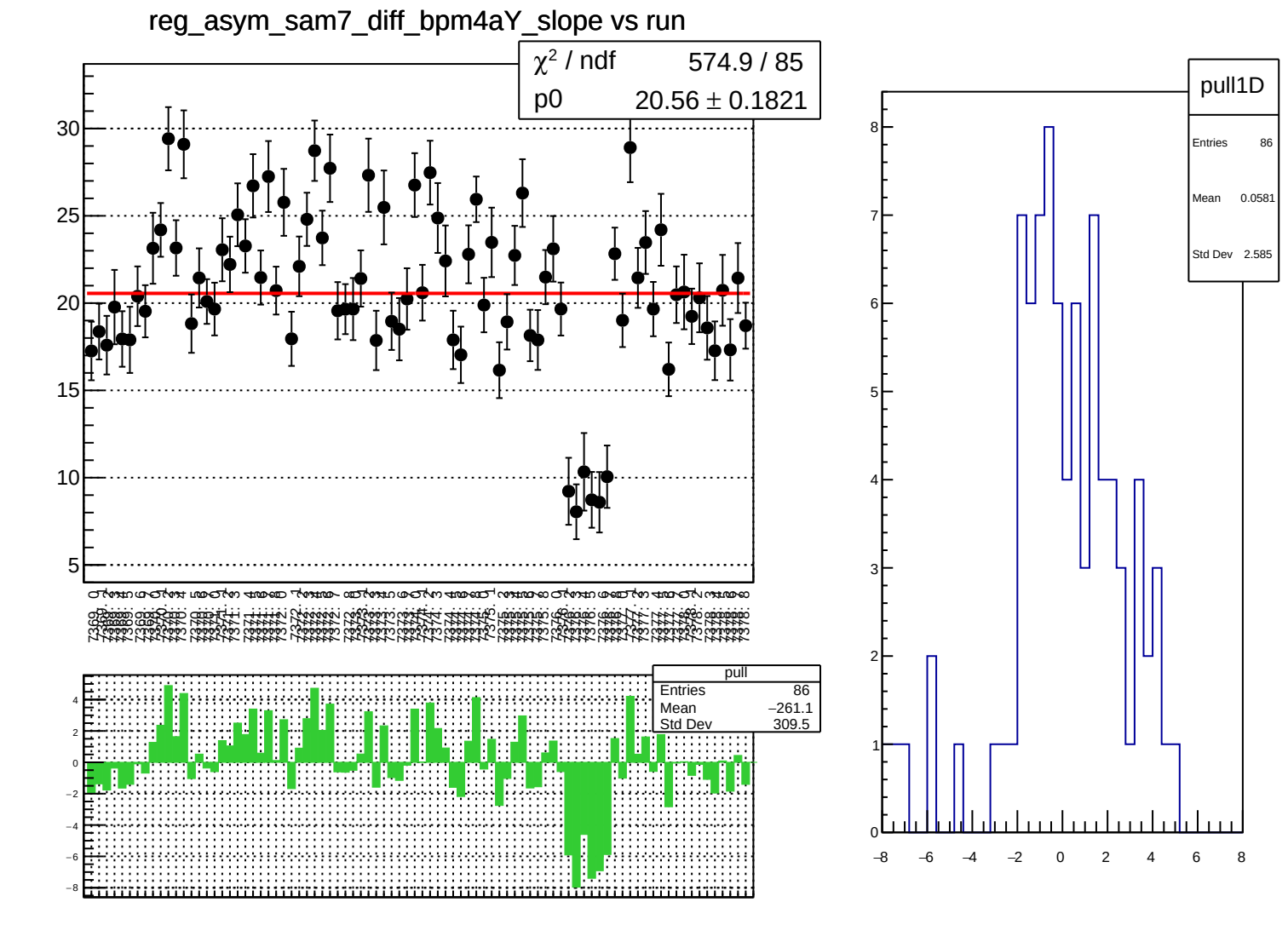

pull1D
Entries 86
Mean −0.01746
Std Dev 0.5388

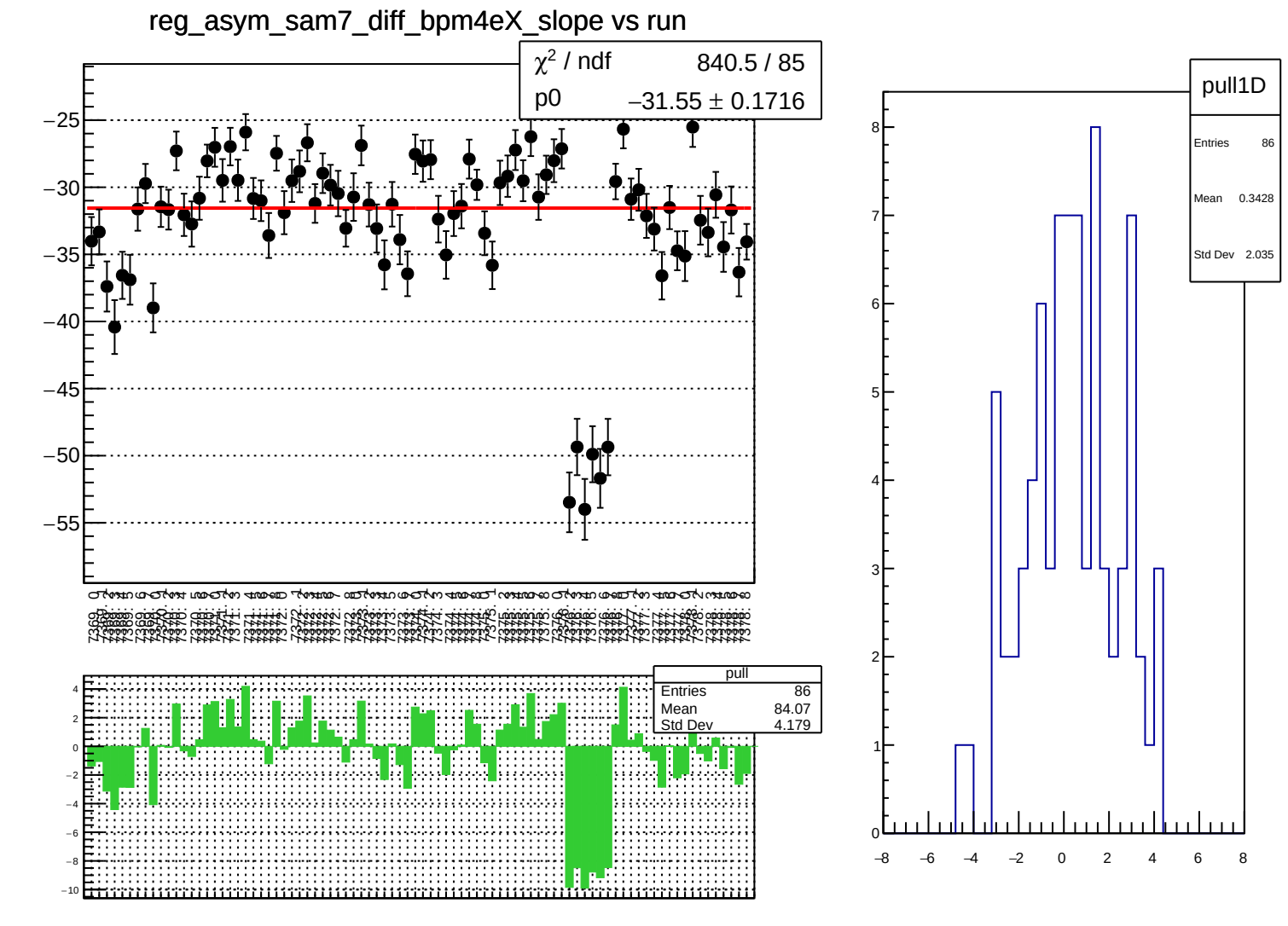

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 142.7 / 85
p0 −0.3703 ± 0.0357
pull
Entries 86
Mean −3254
Std Dev 3298

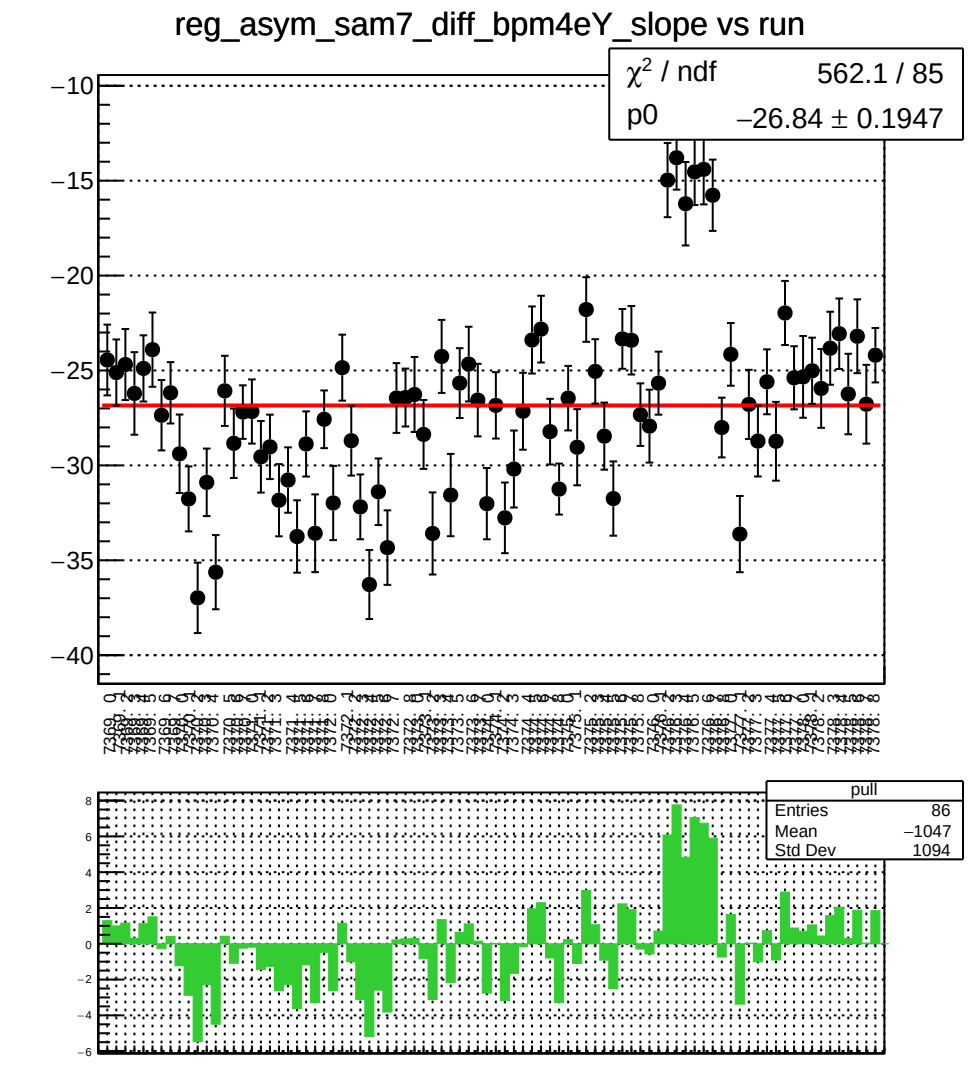

pull1D
Entries 86
Mean −0.00795
Std Dev 1.288

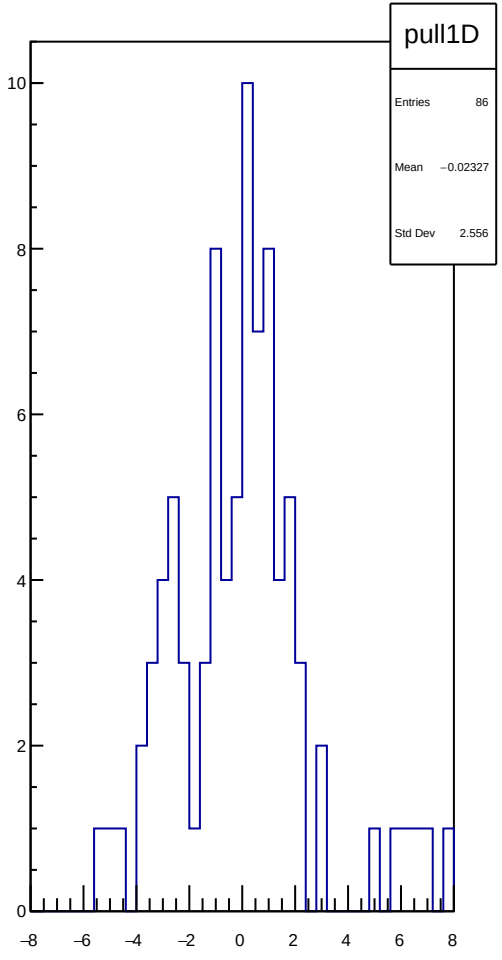

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 1028 / 85
p0 0.007777 ± 0.1651
pull
Entries 86
Mean 65.07
Std Dev 39.51

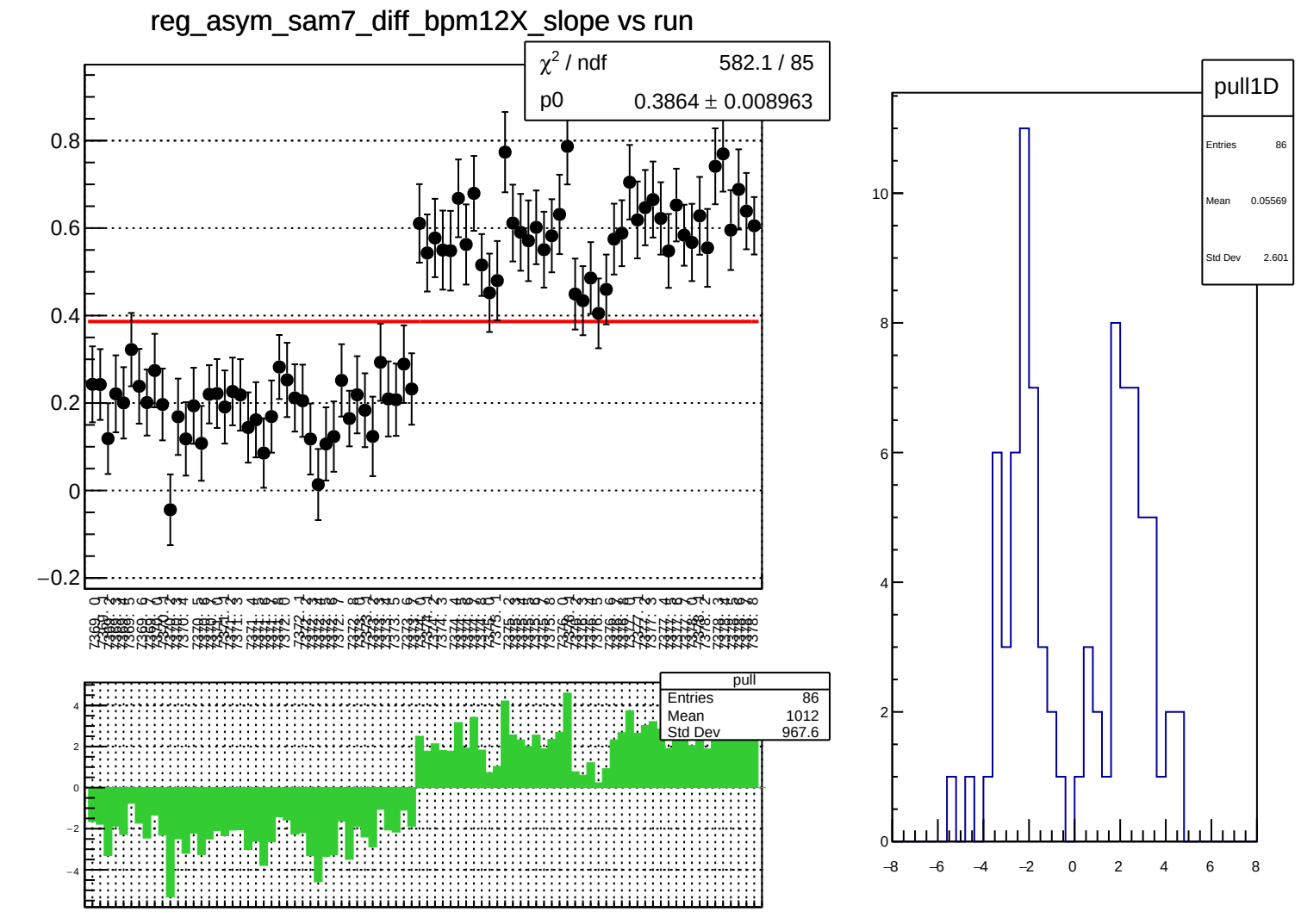

pull1D
Entries 86
Mean −0.4209
Std Dev 2.151

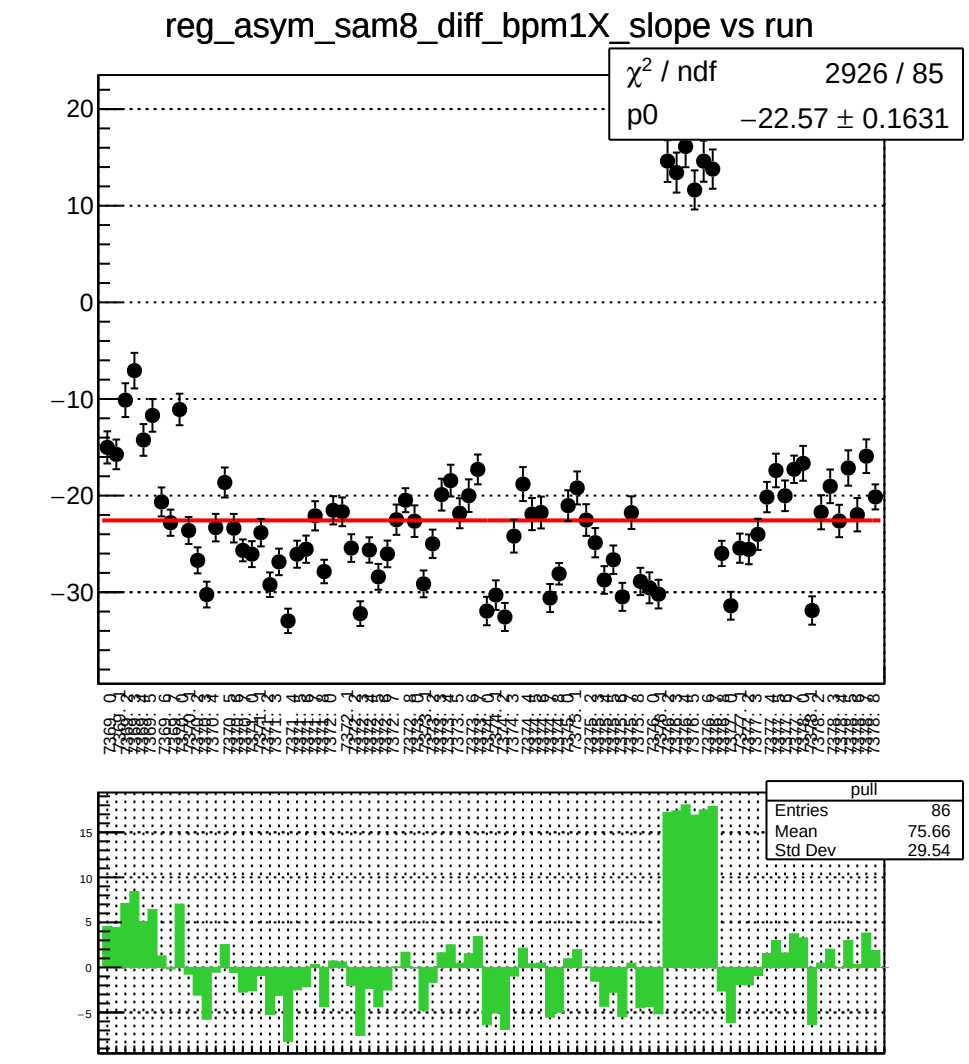

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 574.9 / 85
p0 20.56 ± 0.1821
pull
Entries 86
Mean −261.1
Std Dev 309.5
pull1D
Entries 86
Mean 0.0581
Std Dev 2.585

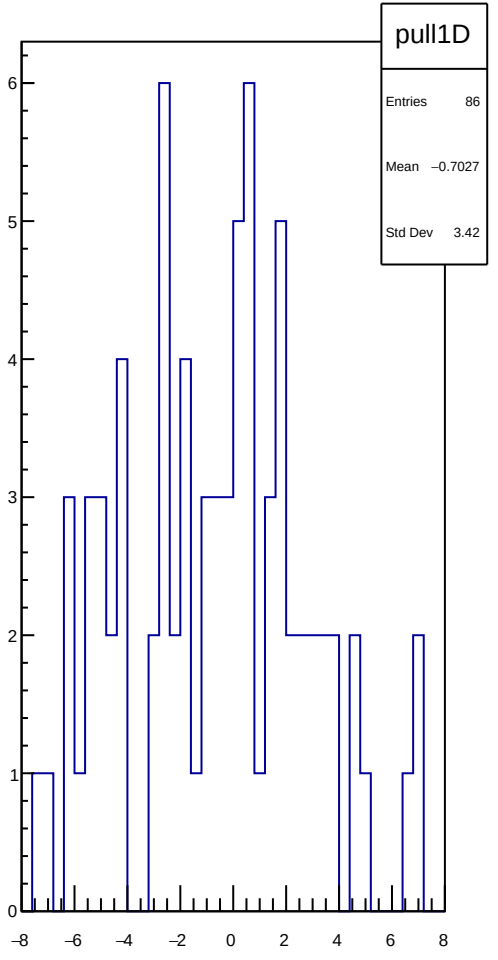

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 840.5 / 85
p0 −31.55 ± 0.1716
pull
Entries 86
Mean 84.07
Std Dev 4.179
pull1D
Entries 86
Mean 0.3428
Std Dev 2.035

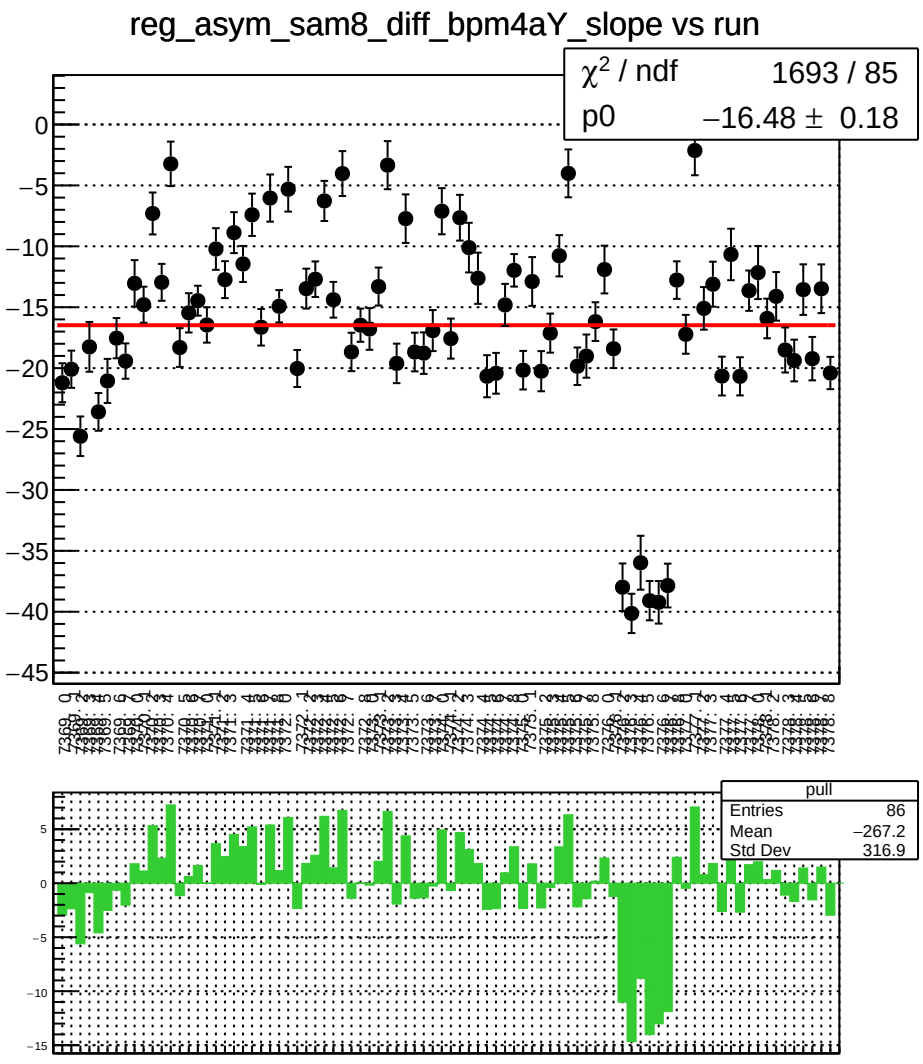

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 562.1 / 85
p0 −26.84 ± 0.1947
pull
Entries 86
Mean −1047
Std Dev 1094

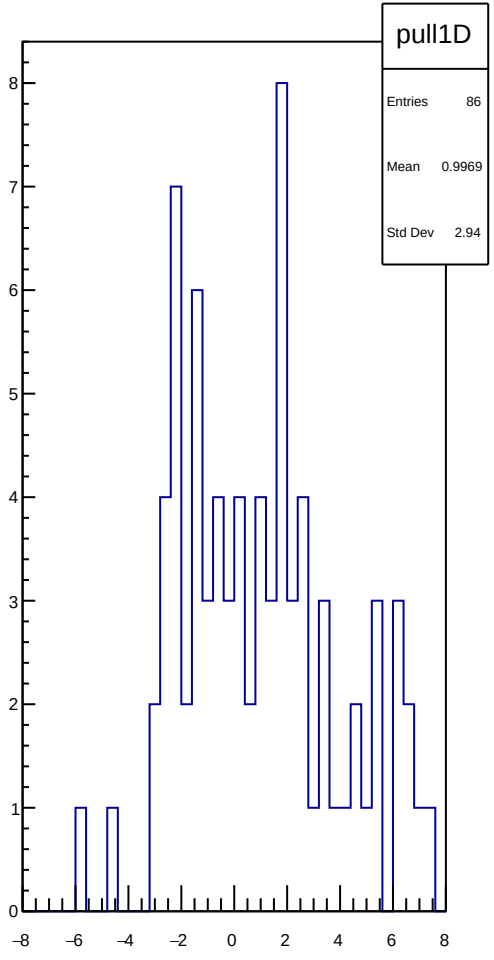

pull1D
Entries 86
Mean −0.02327
Std Dev 2.556

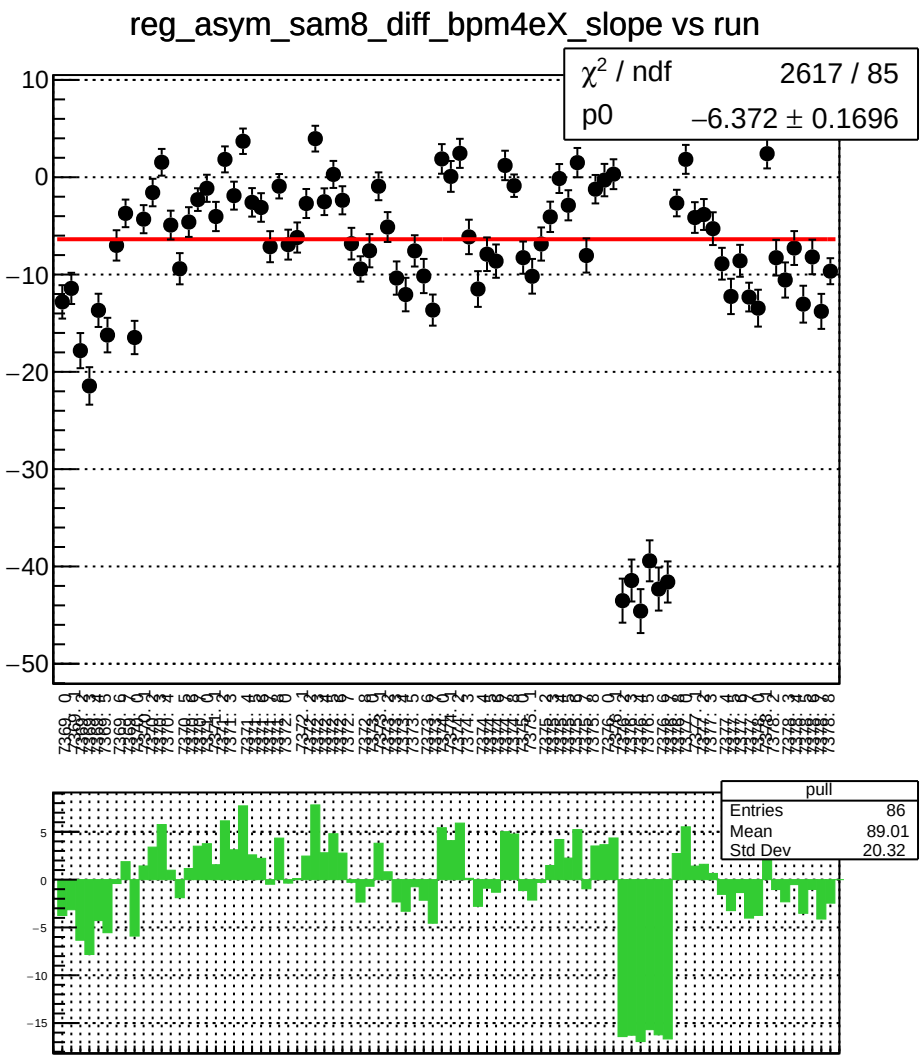

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 582.1 / 85
p0 0.3864 ± 0.008963
pull
Entries 86
Mean 1012
Std Dev 967.6
pull1D
Entries 86
Mean 0.05569
Std Dev 2.601

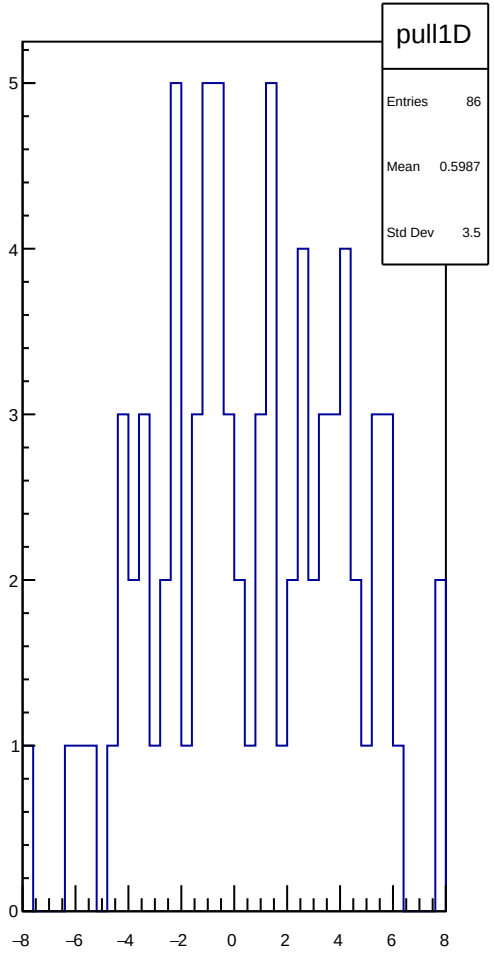

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 2926 / 85
p0 −22.57 ± 0.1631
pull
Entries 86
Mean 75.66
Std Dev 29.54

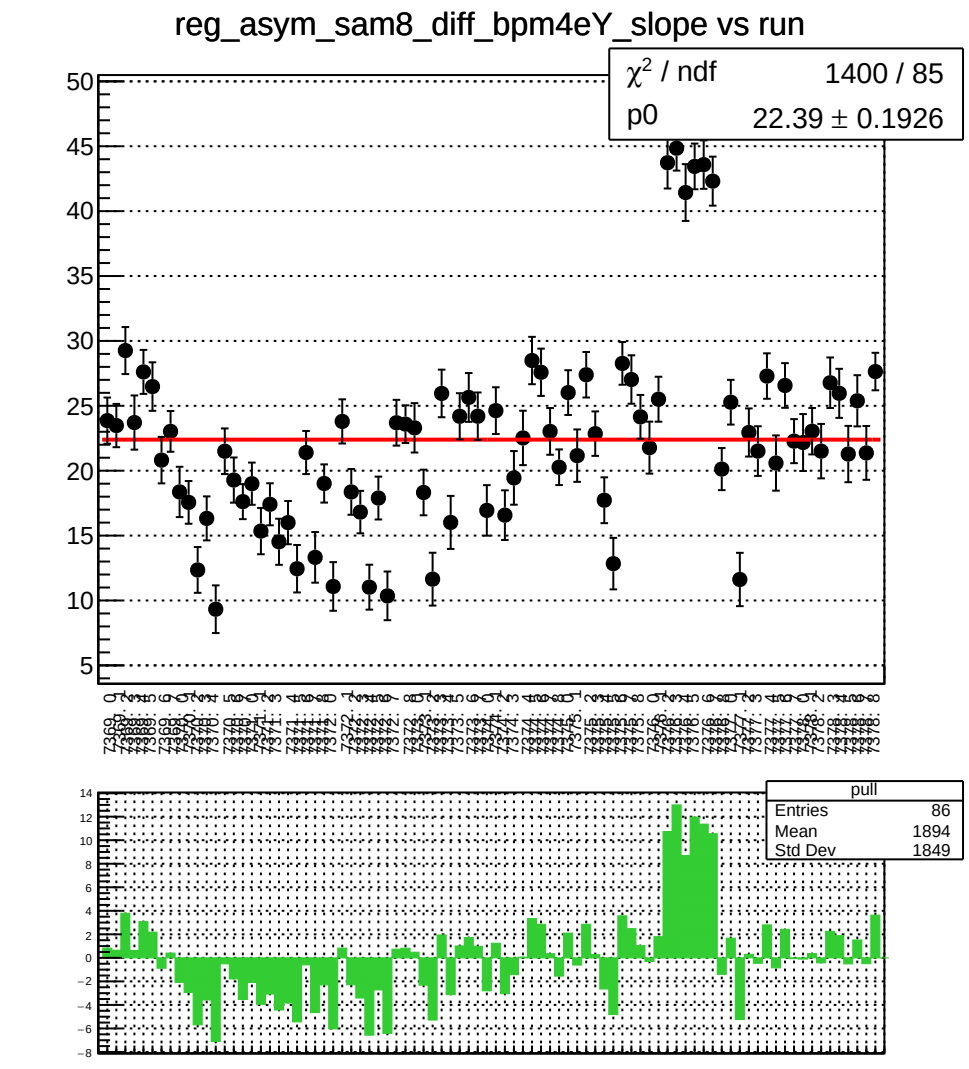

pull1D
Entries 86
Mean −0.7027
Std Dev 3.42

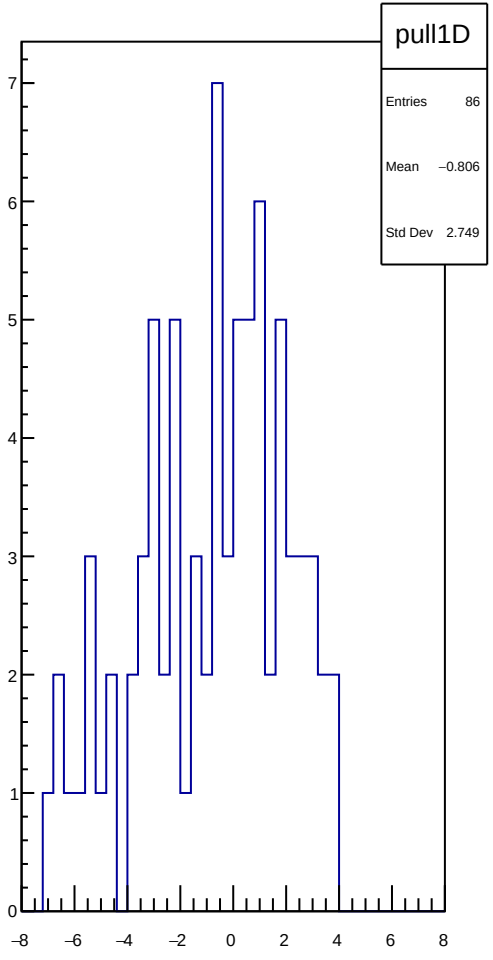

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 1693 / 85
p0 −16.48 ± 0.18
pull
Entries 86
Mean −267.2
Std Dev 316.9

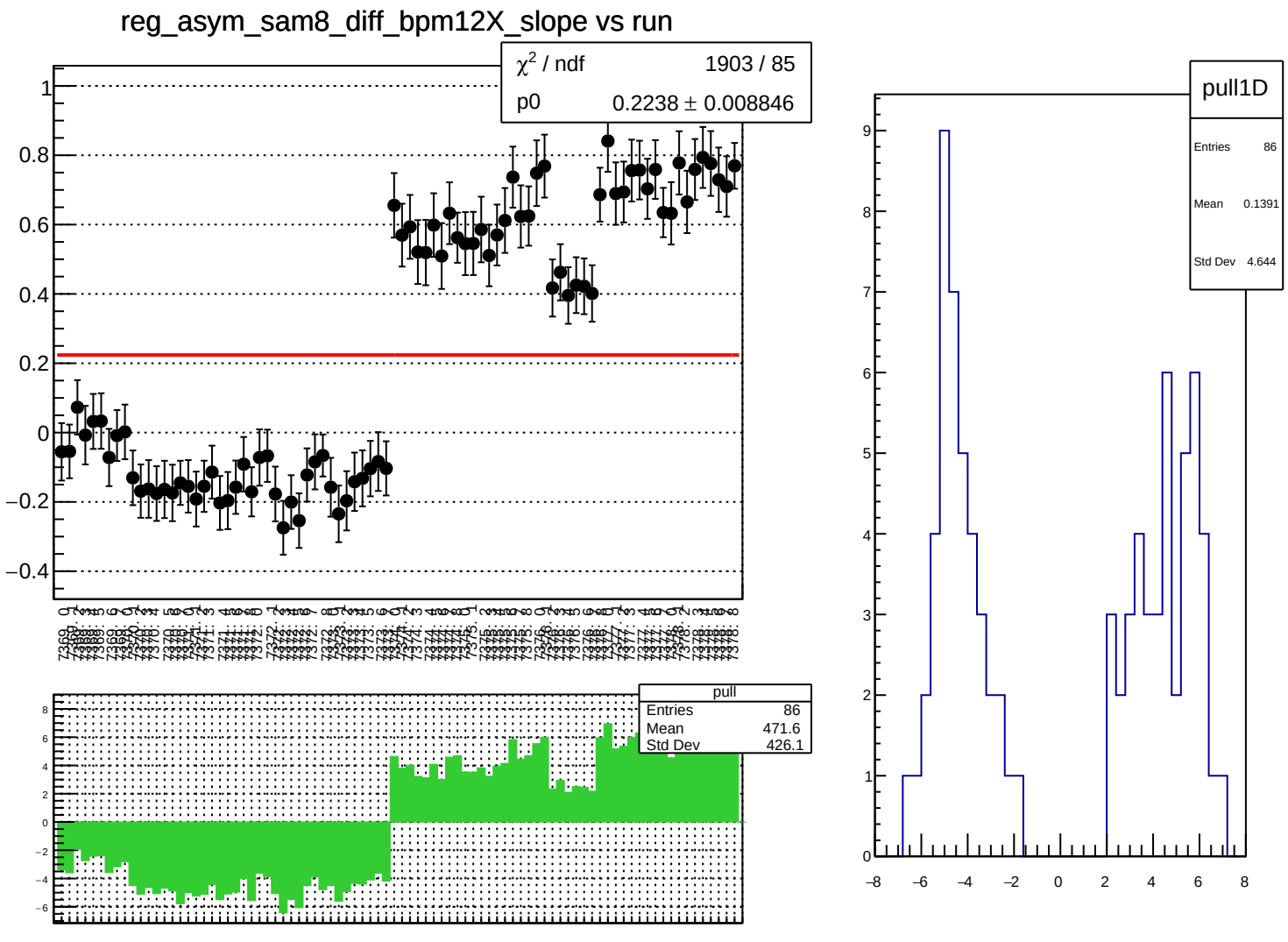

pull1D
Entries 86
Mean 0.9969
Std Dev 2.94

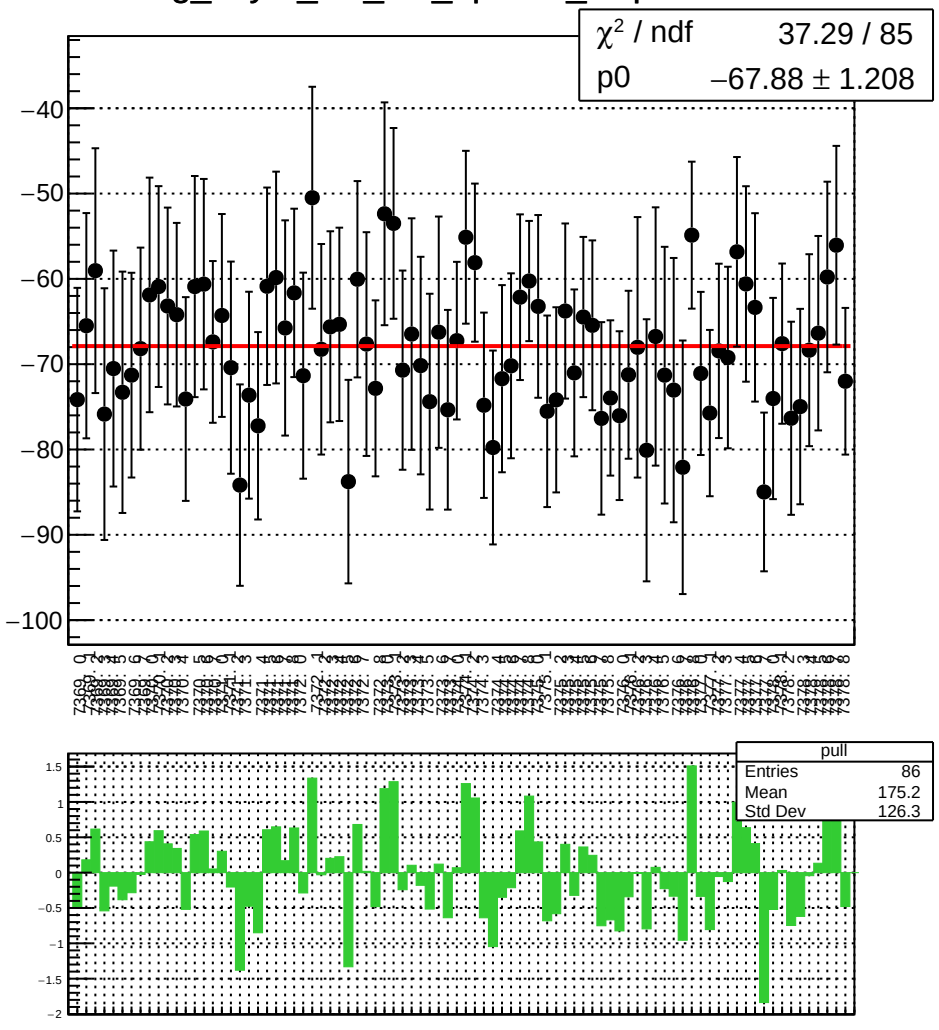

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 2617 / 85
p0 −6.372 ± 0.1696
pull
Entries 86
Mean 89.01
Std Dev 20.32

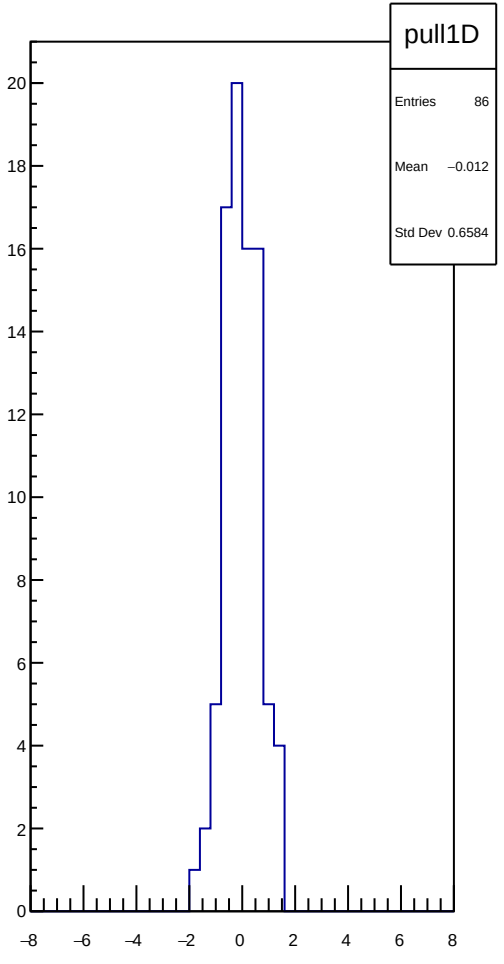

pull1D
Entries 86
Mean 0.5987
Std Dev 3.5

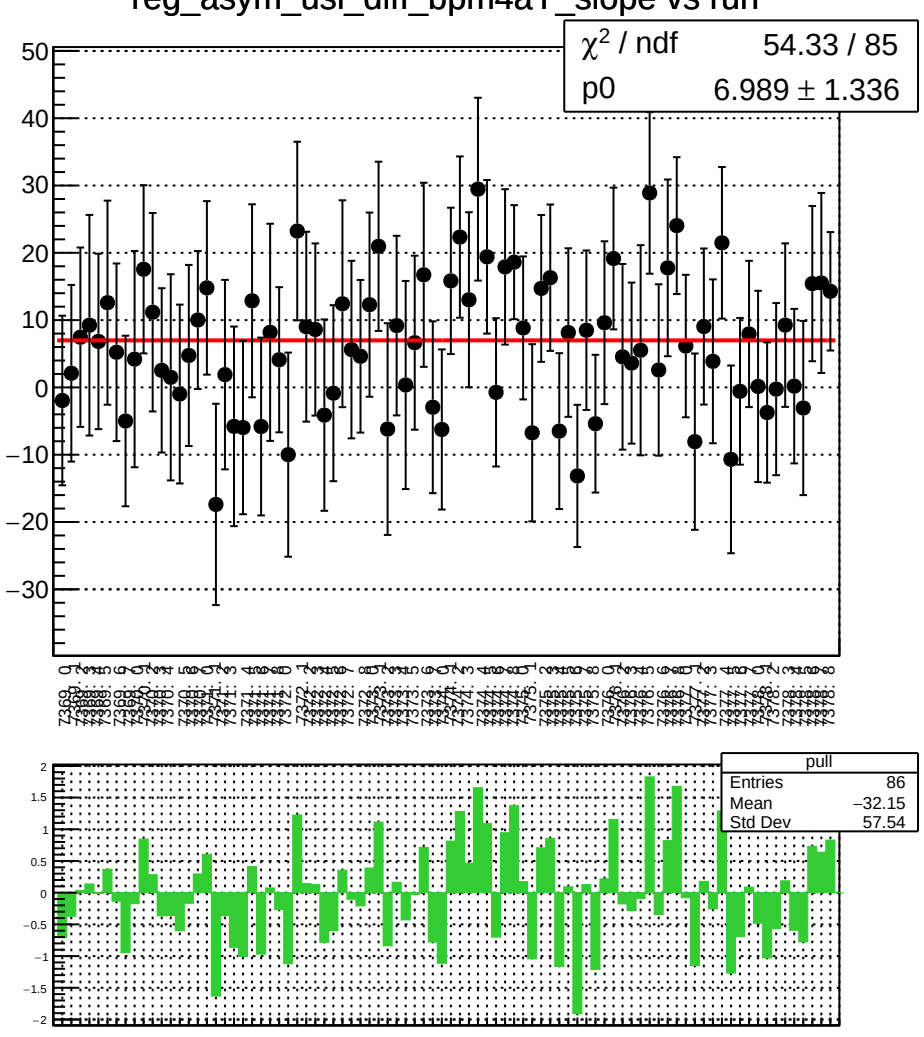

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 1400 / 85
p0 22.39 ± 0.1926
pull
Entries 86
Mean 1894
Std Dev 1849

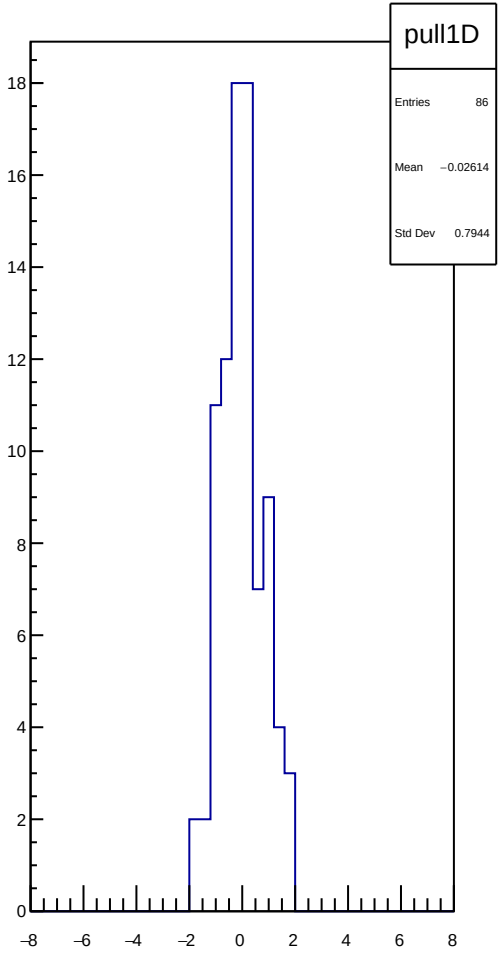

pull1D
Entries 86
Mean −0.806
Std Dev 2.749

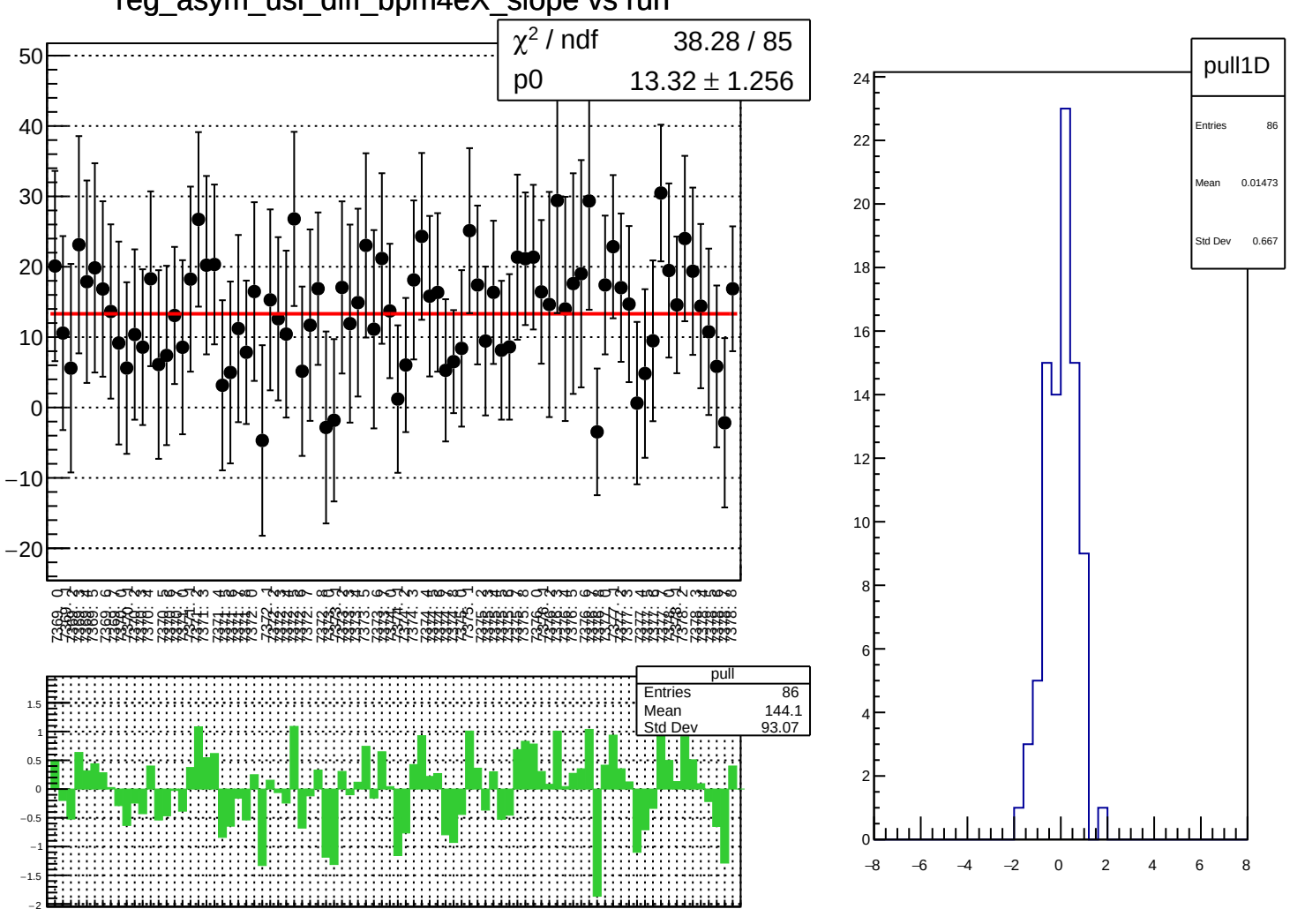

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 1903 / 85
p0 0.2238 ± 0.008846
pull
Entries 86
Mean 471.6
Std Dev 426.1
pull1D
Entries 86
Mean 0.1391
Std Dev 4.644

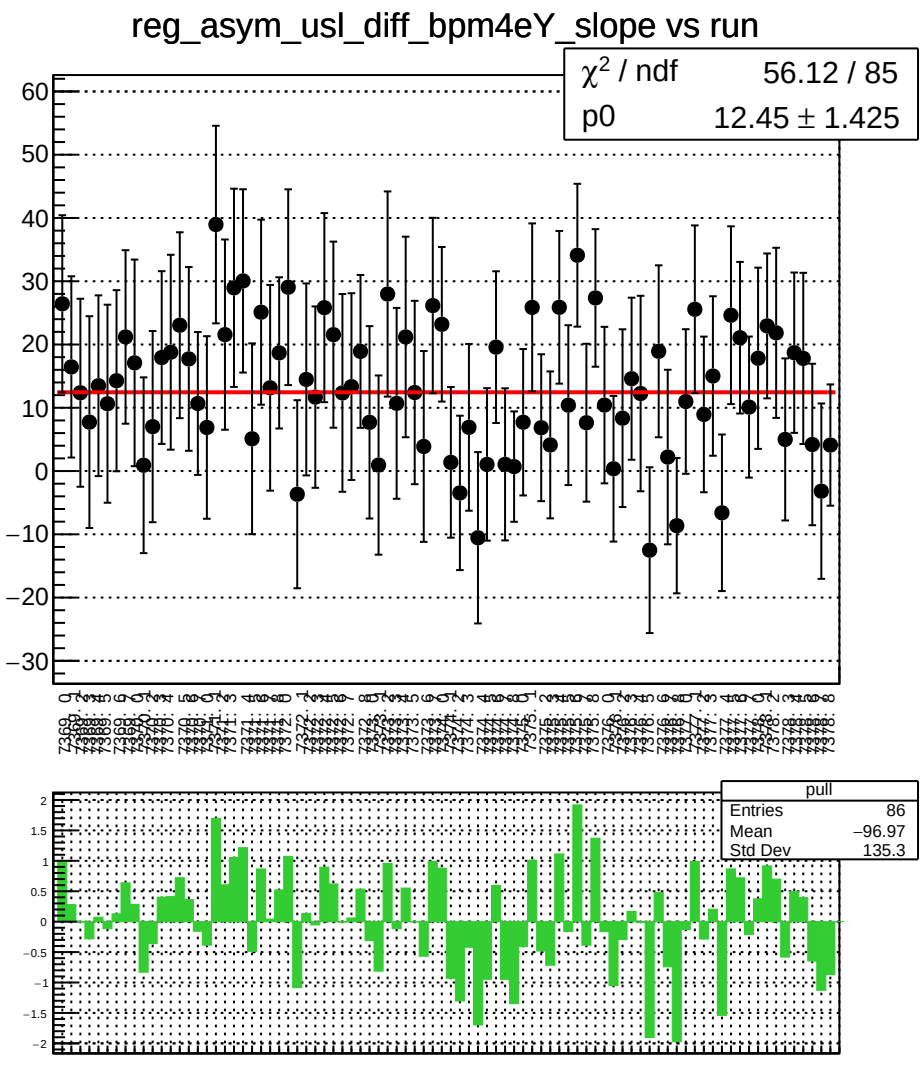

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 37.29 / 85
p0 −67.88 ± 1.208
pull
Entries 86
Mean 175.2
Std Dev 126.3

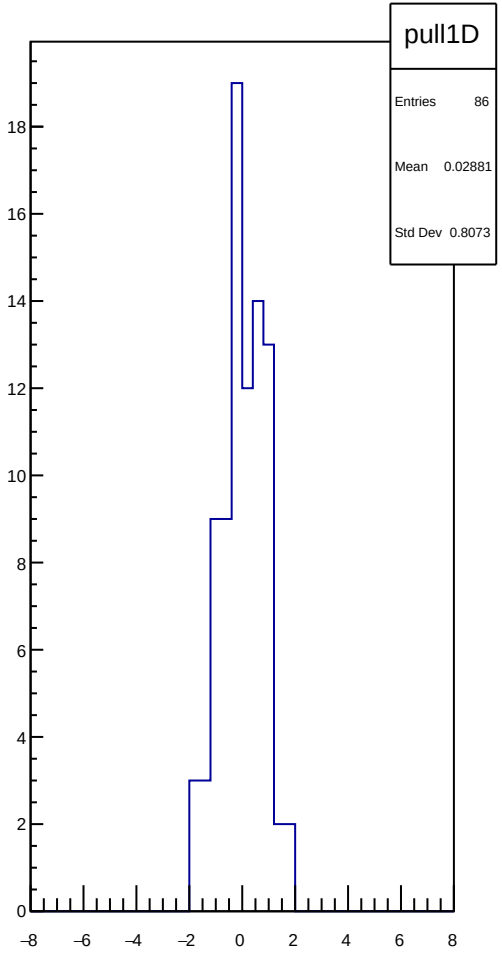

pull1D
Entries 86
Mean −0.012
Std Dev 0.6584

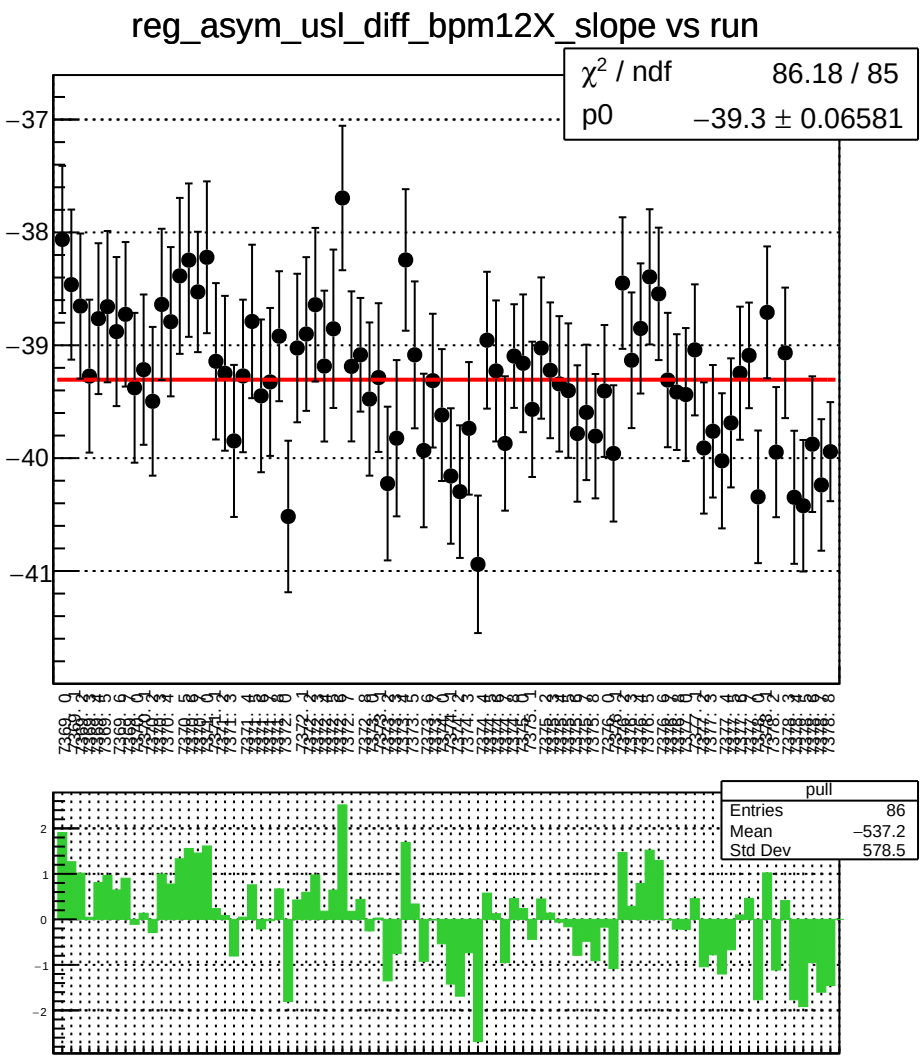

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 54.33 / 85
p0 6.989 ± 1.336
pull
Entries 86
Mean −32.15
Std Dev 57.54

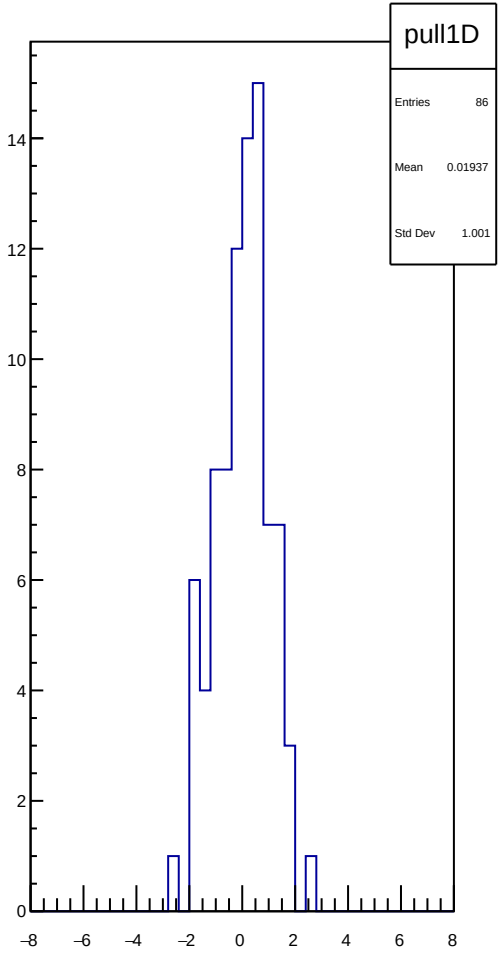

pull1D
Entries 86
Mean −0.02614
Std Dev 0.7944

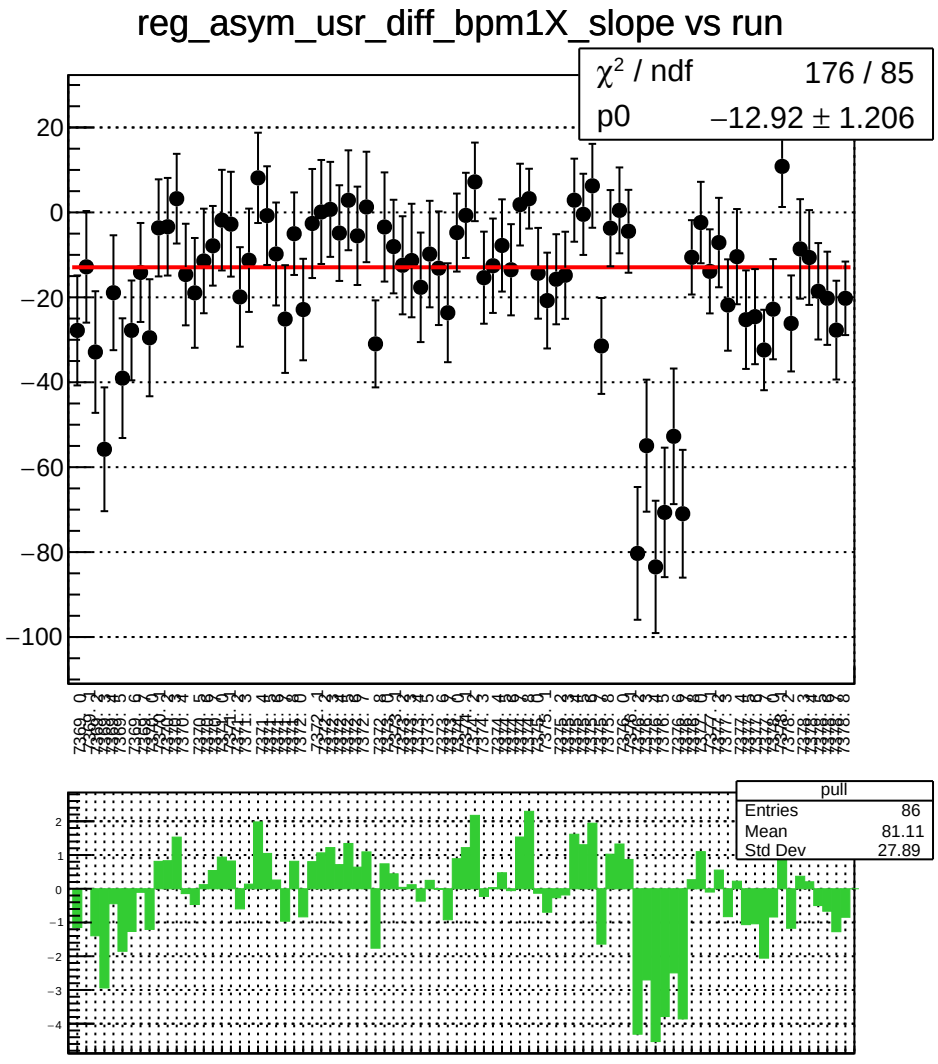

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 38.28 / 85
p0 13.32 ± 1.256
pull
Entries 86
Mean 144.1
Std Dev 93.07
pull1D
Entries 86
Mean 0.01473
Std Dev 0.667

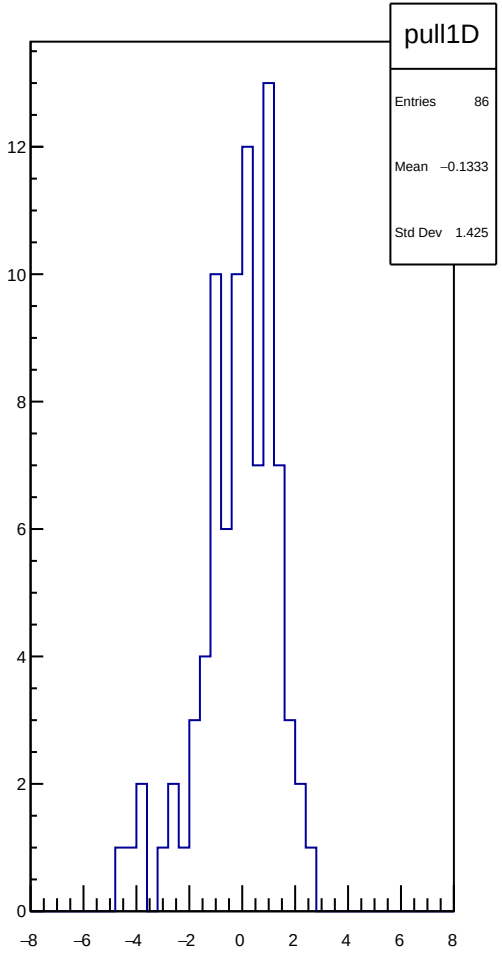

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 56.12 / 85
p0 12.45 ± 1.425
pull
Entries 86
Mean −96.97
Std Dev 135.3

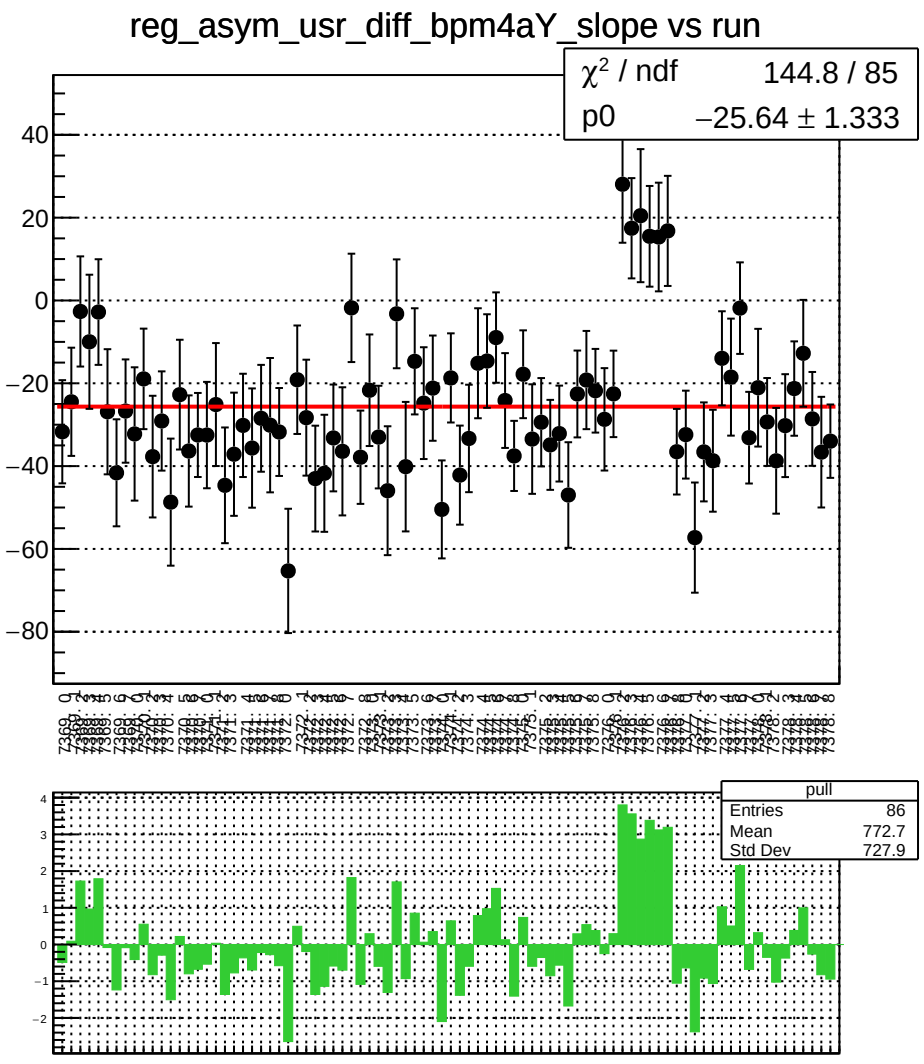

pull1D
Entries 86
Mean 0.02881
Std Dev 0.8073

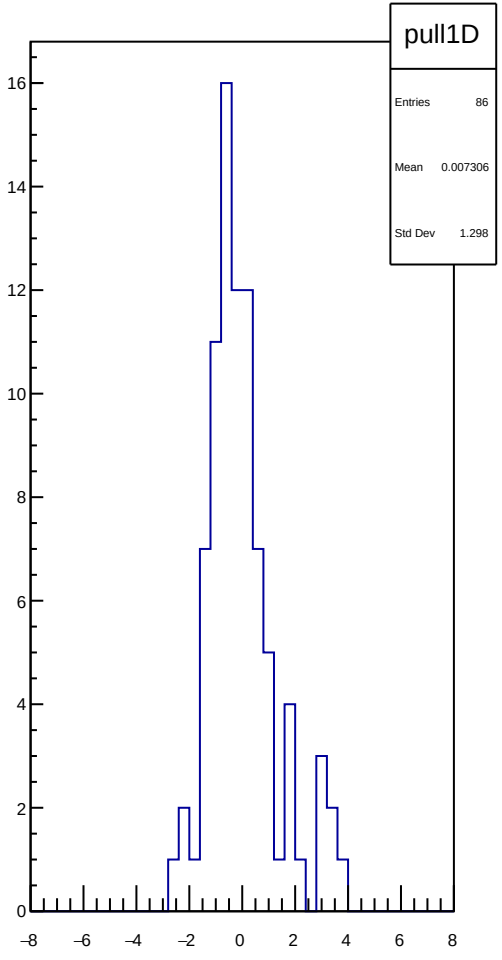

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 86.18 / 85
p0 −39.3 ± 0.06581
pull
Entries 86
Mean −537.2
Std Dev 578.5

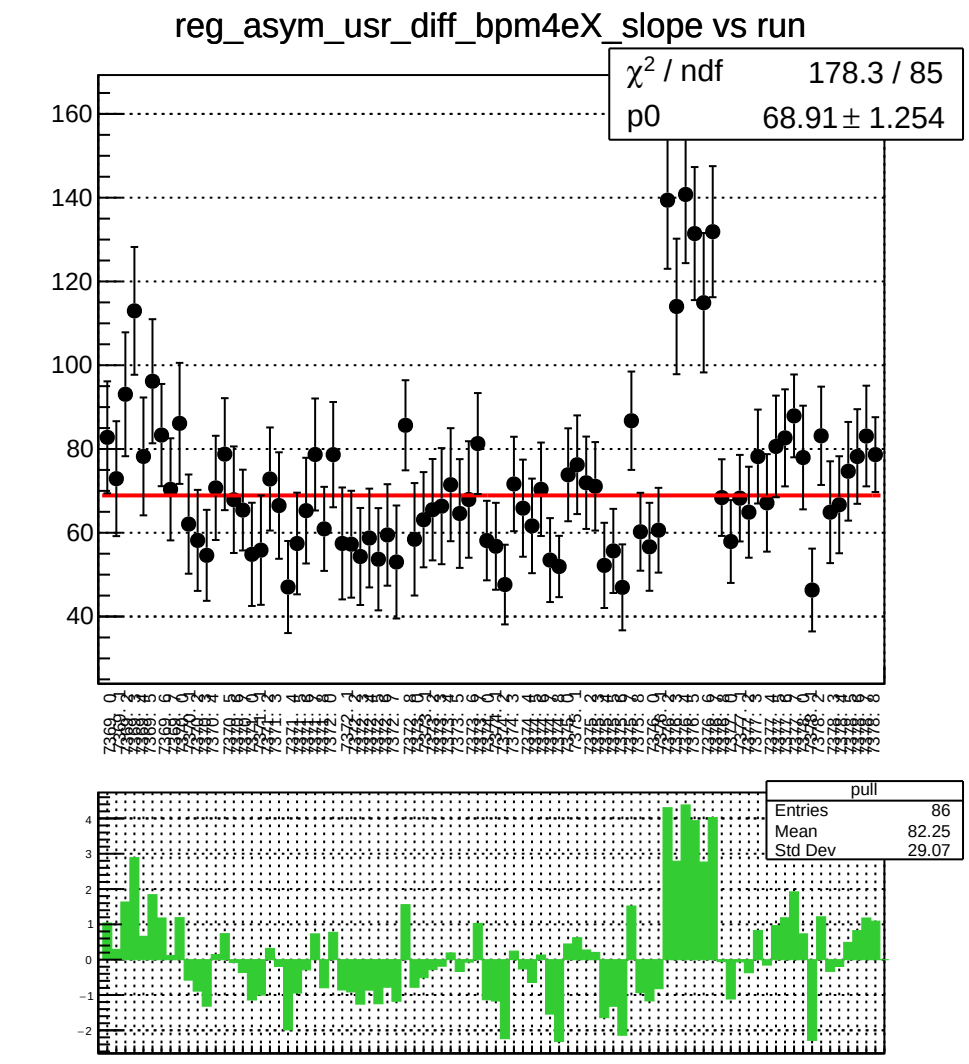

pull1D
Entries 86
Mean 0.01937
Std Dev 1.001

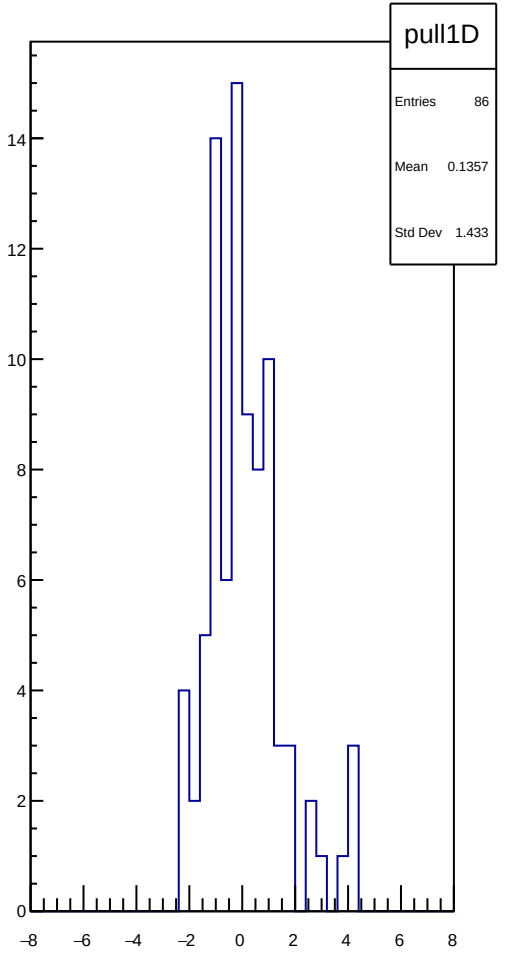

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 176 / 85
p0 −12.92 ± 1.206
pull
Entries 86
Mean 81.11
Std Dev 27.89

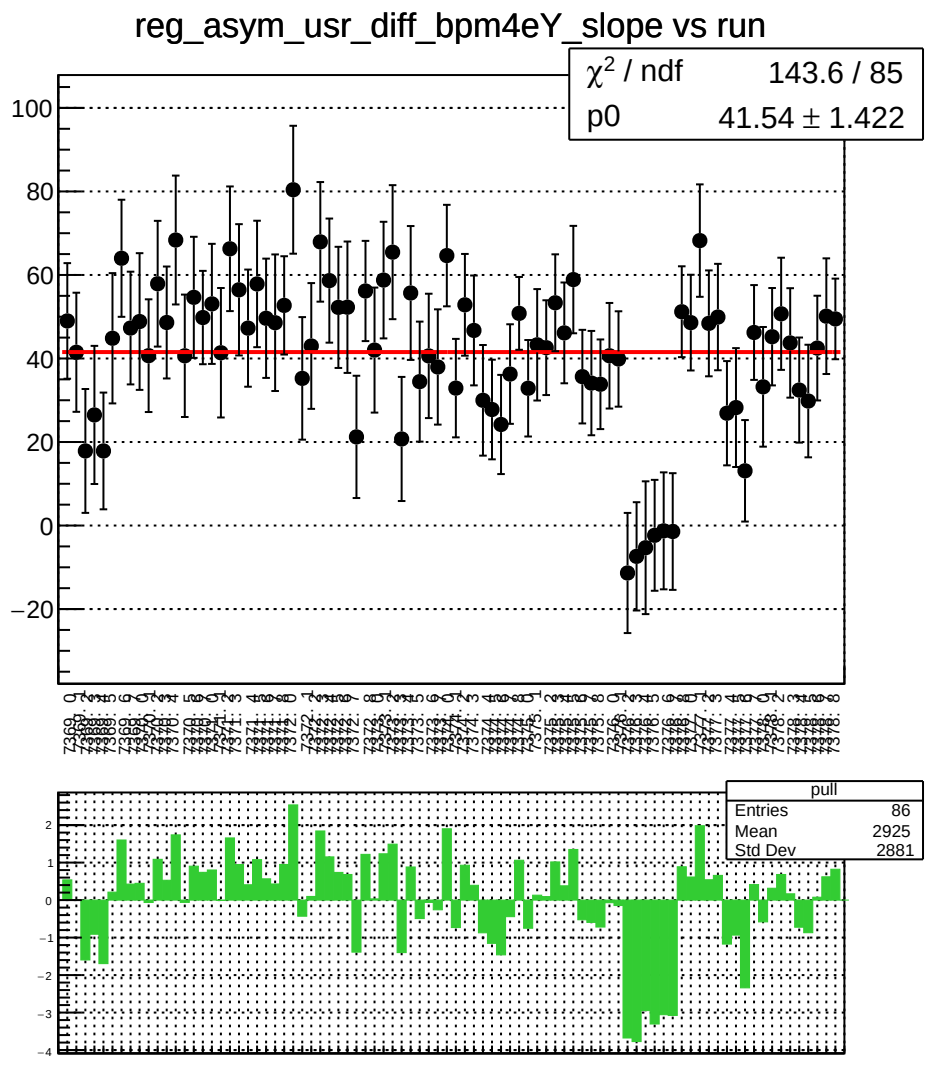

pull1D
Entries 86
Mean −0.1333
Std Dev 1.425

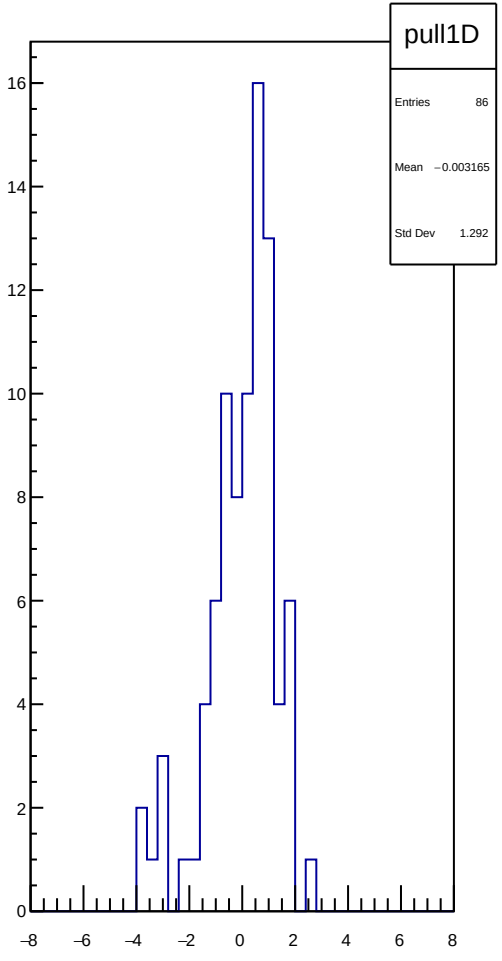

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 144.8 / 85
p0 −25.64 ± 1.333
pull
Entries 86
Mean 772.7
Std Dev 727.9

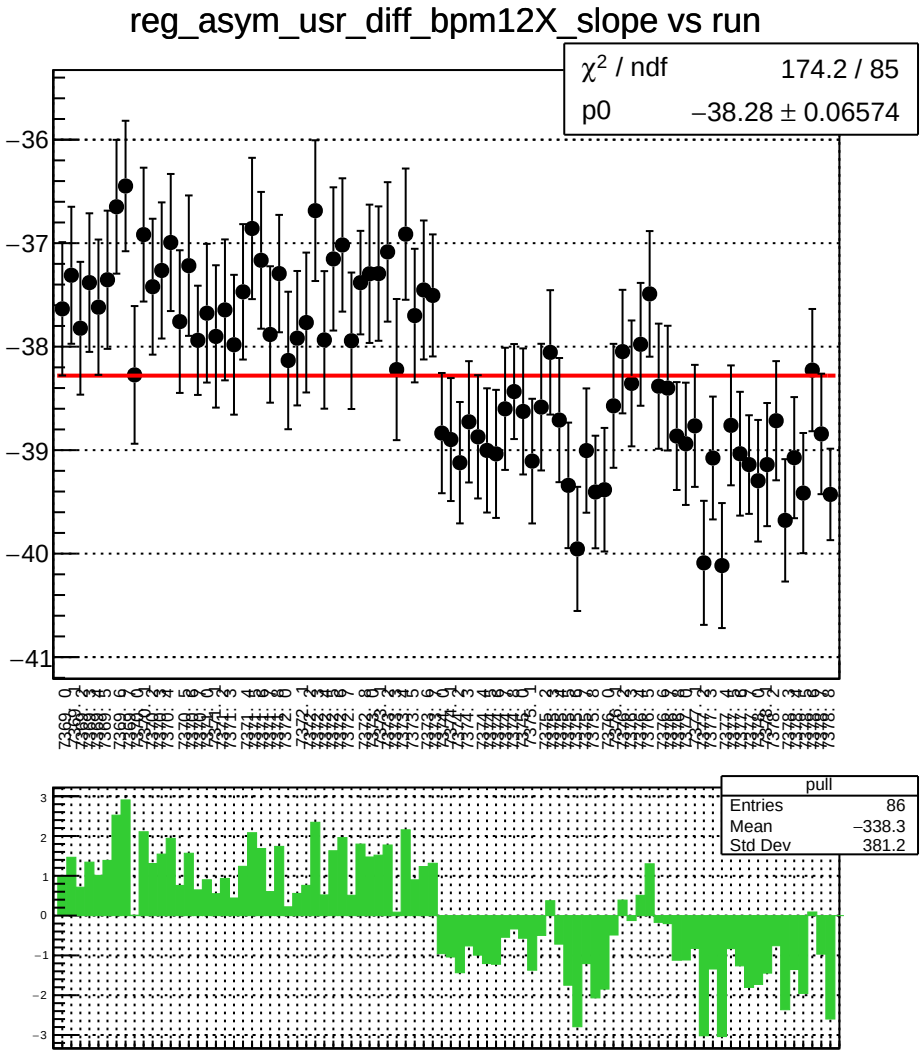

pull1D
Entries 86
Mean 0.007306
Std Dev 1.298

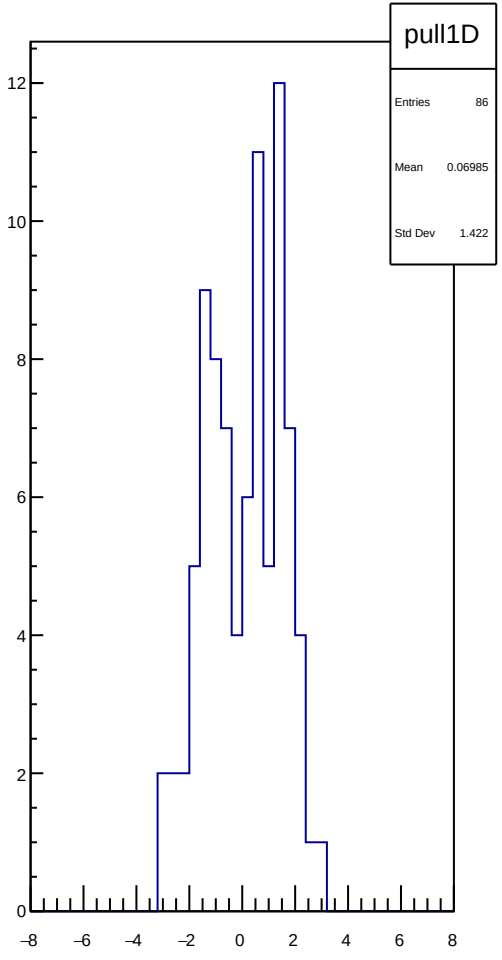

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 178.3 / 85
p0 68.91 ± 1.254
pull
Entries 86
Mean 82.25
Std Dev 29.07

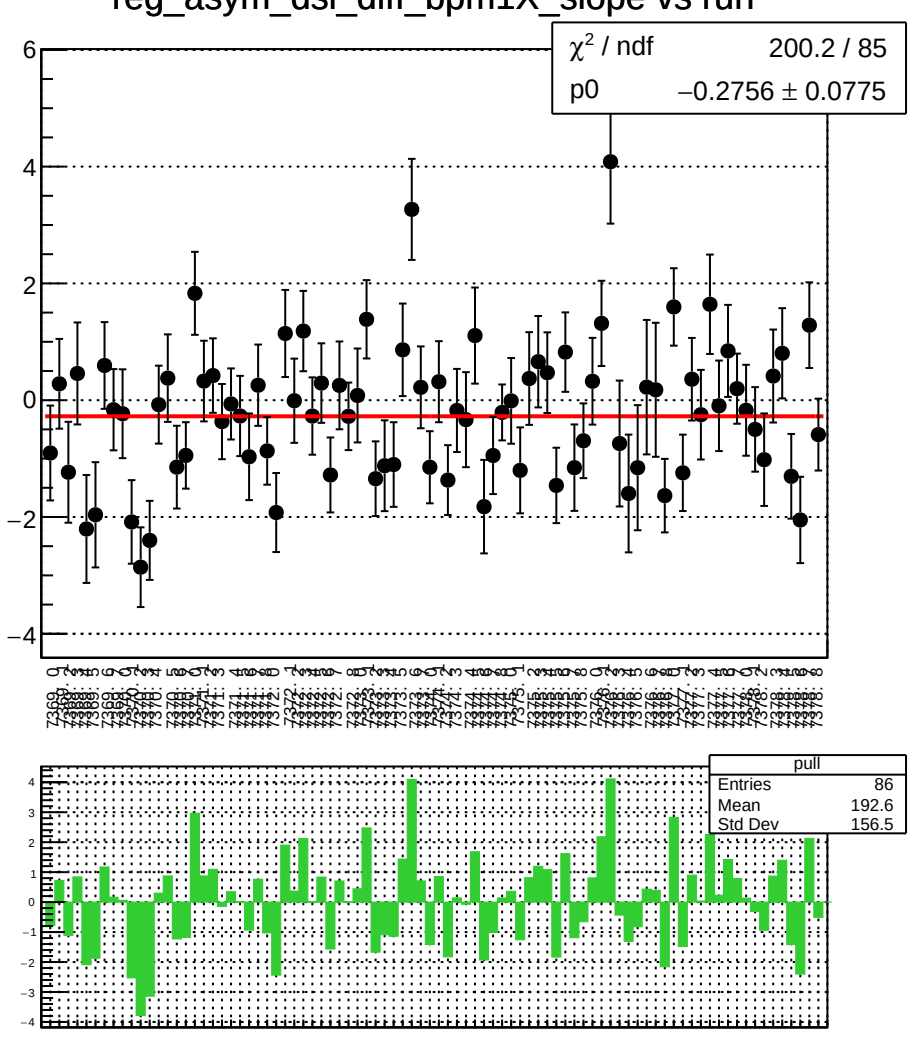

pull1D
Entries 86
Mean 0.1357
Std Dev 1.433

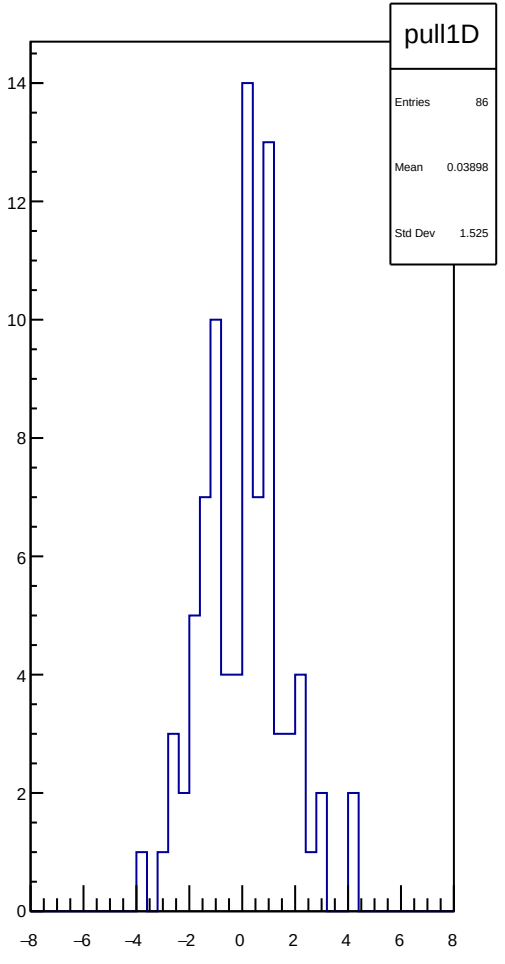

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 143.6 / 85
p0 41.54 ± 1.422
pull
Entries 86
Mean 2925
Std Dev 2881

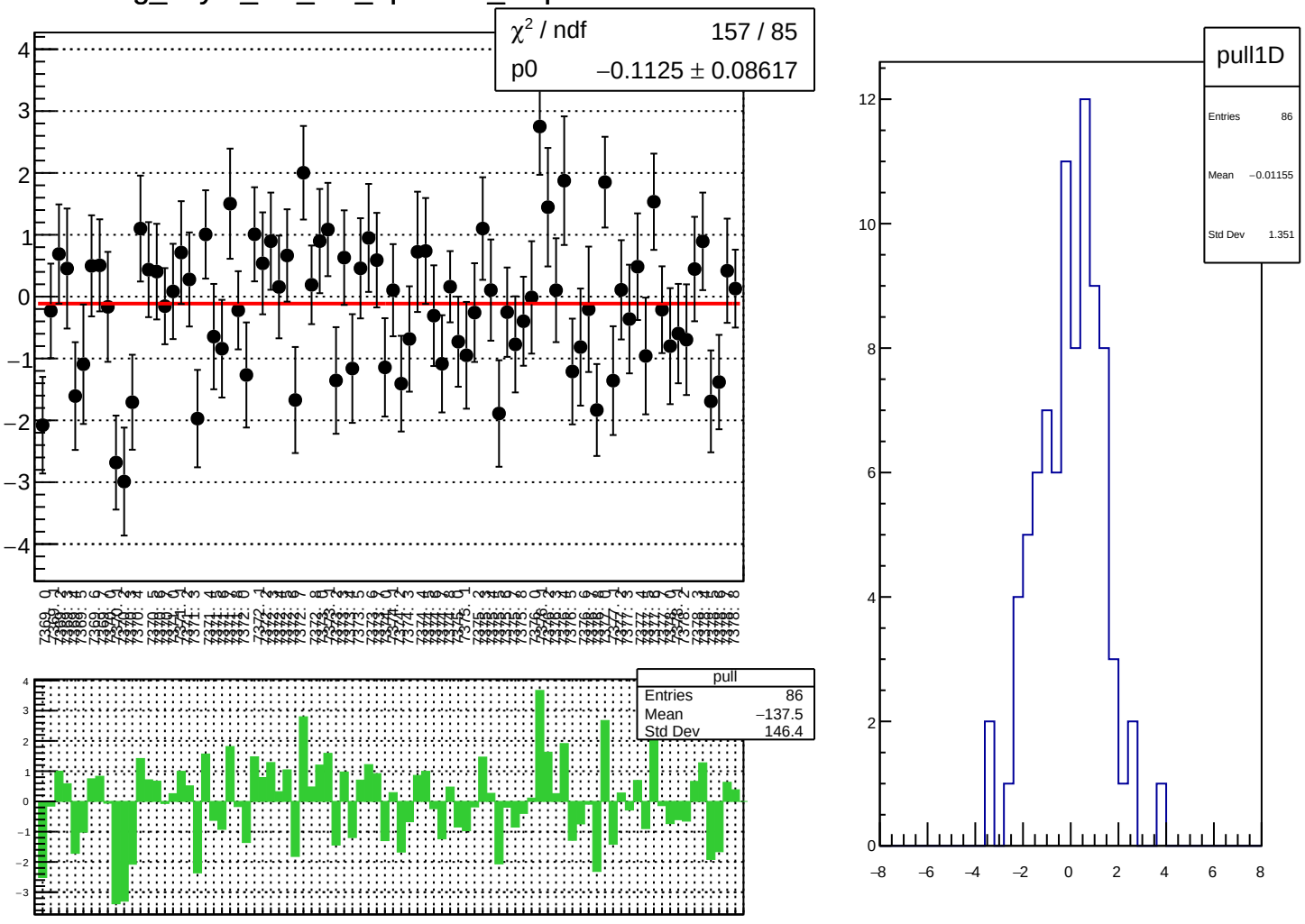

pull1D
Entries 86
Mean −0.003165
Std Dev 1.292

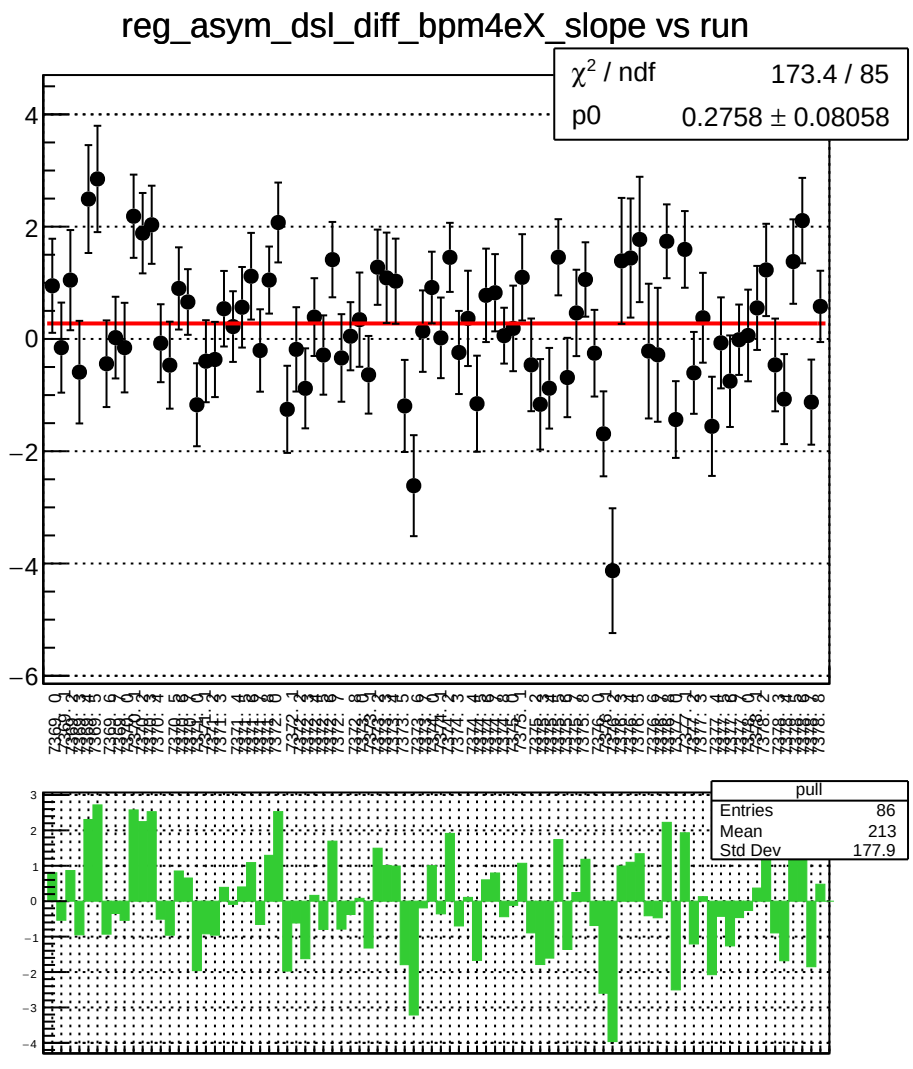

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 174.2 / 85
p0 −38.28 ± 0.06574
pull
Entries 86
Mean −338.3
Std Dev 381.2

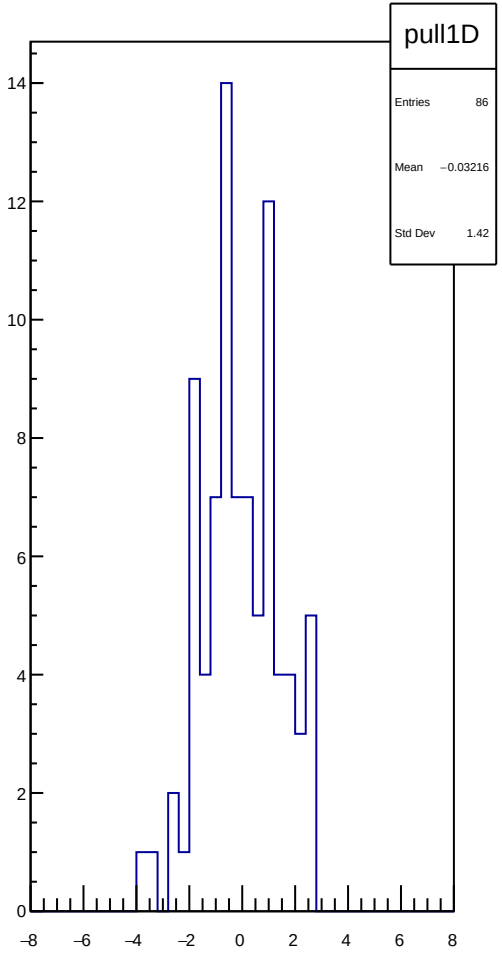

pull1D
Entries 86
Mean 0.06985
Std Dev 1.422

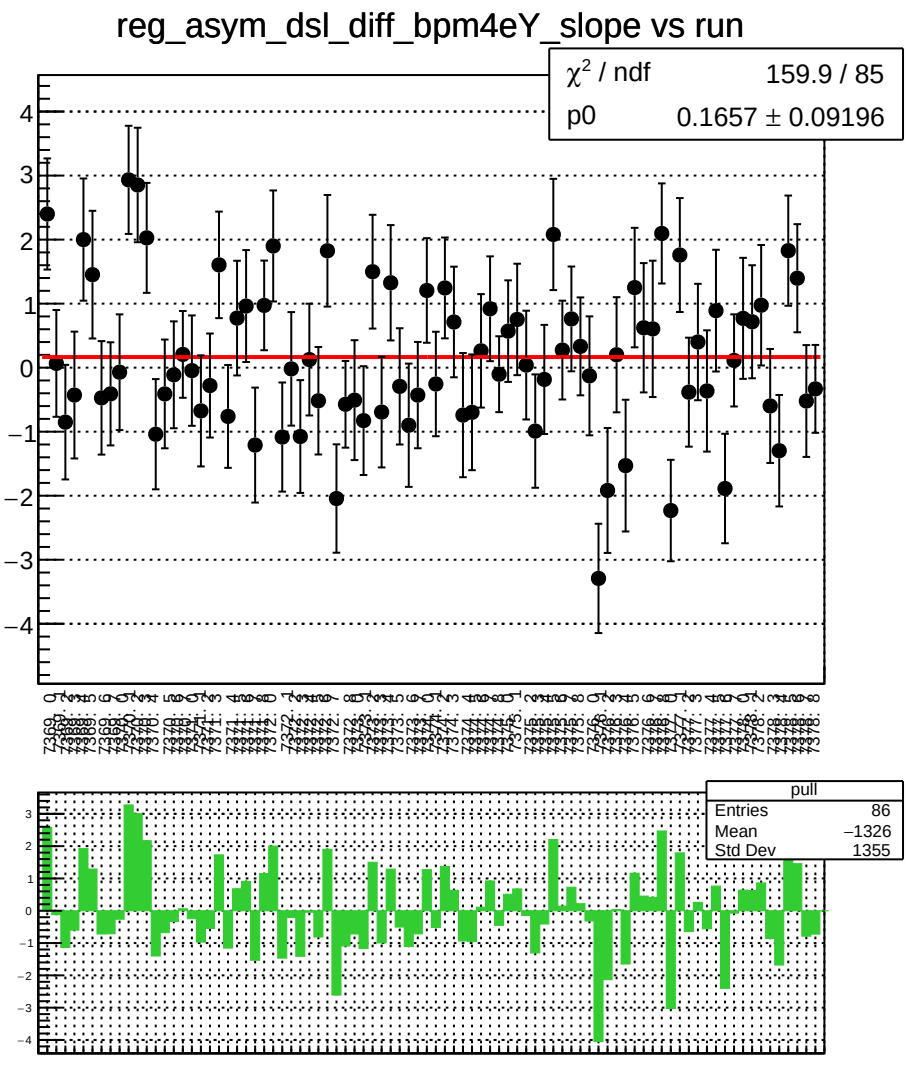

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 200.2 / 85
p0 −0.2756 ± 0.0775
pull
Entries 86
Mean 192.6
Std Dev 156.5

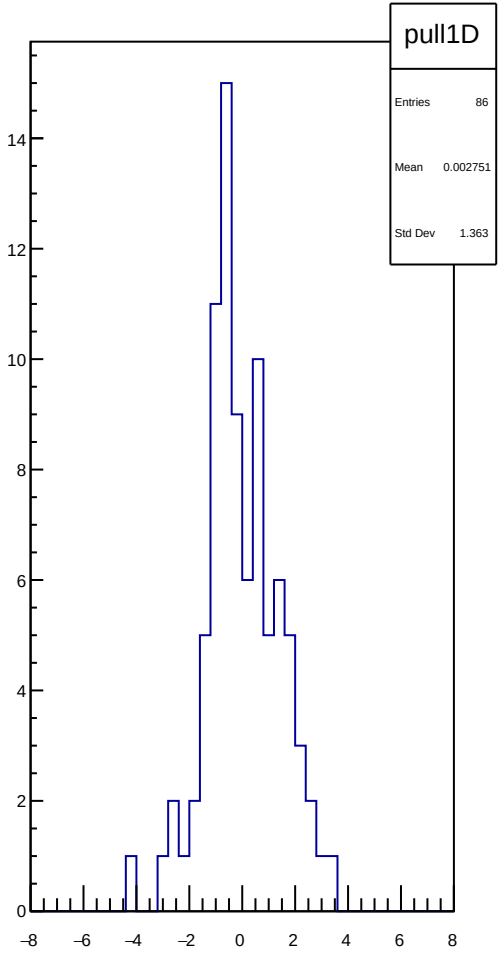

pull1D
Entries 86
Mean 0.03898
Std Dev 1.525

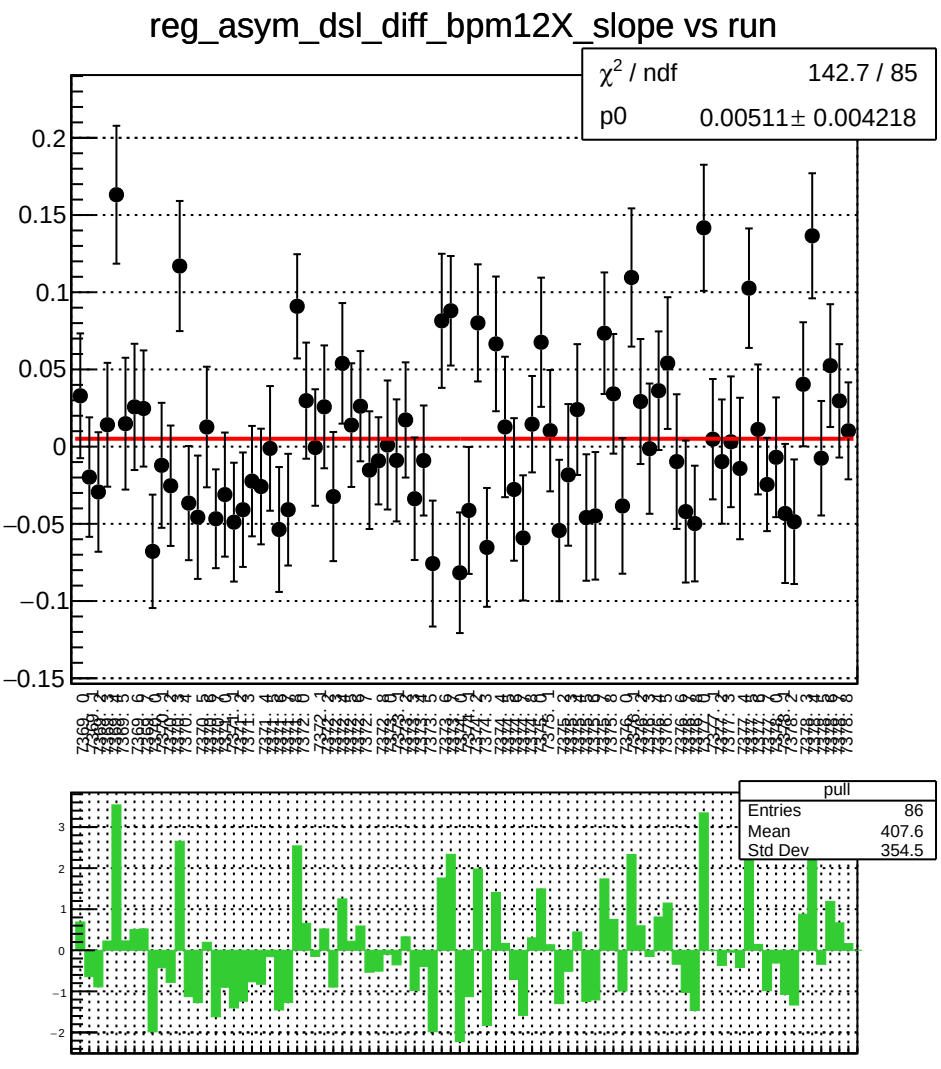

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 157 / 85
p0 −0.1125 ± 0.08617
pull
Entries 86
Mean −137.5
Std Dev 146.4
pull1D
Entries 86
Mean −0.01155
Std Dev 1.351

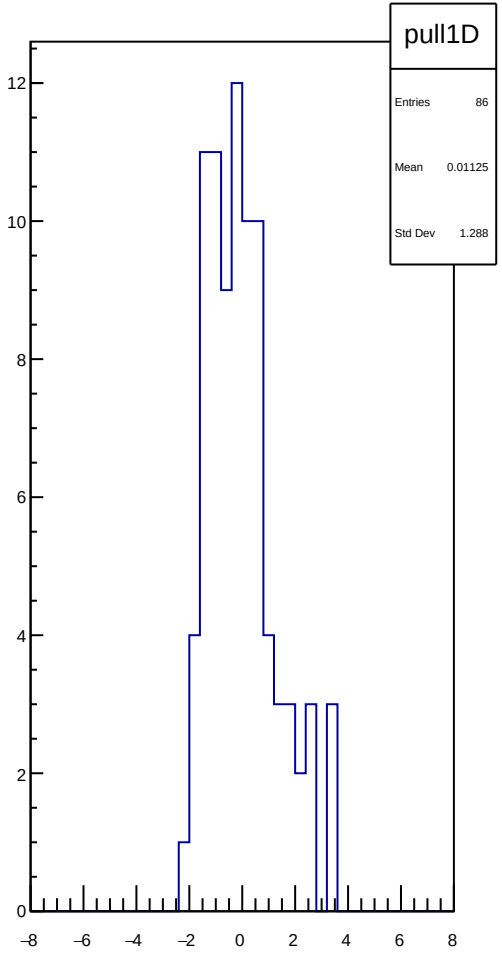

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 173.4 / 85
p0 0.2758 ± 0.08058
pull
Entries 86
Mean 213
Std Dev 177.9

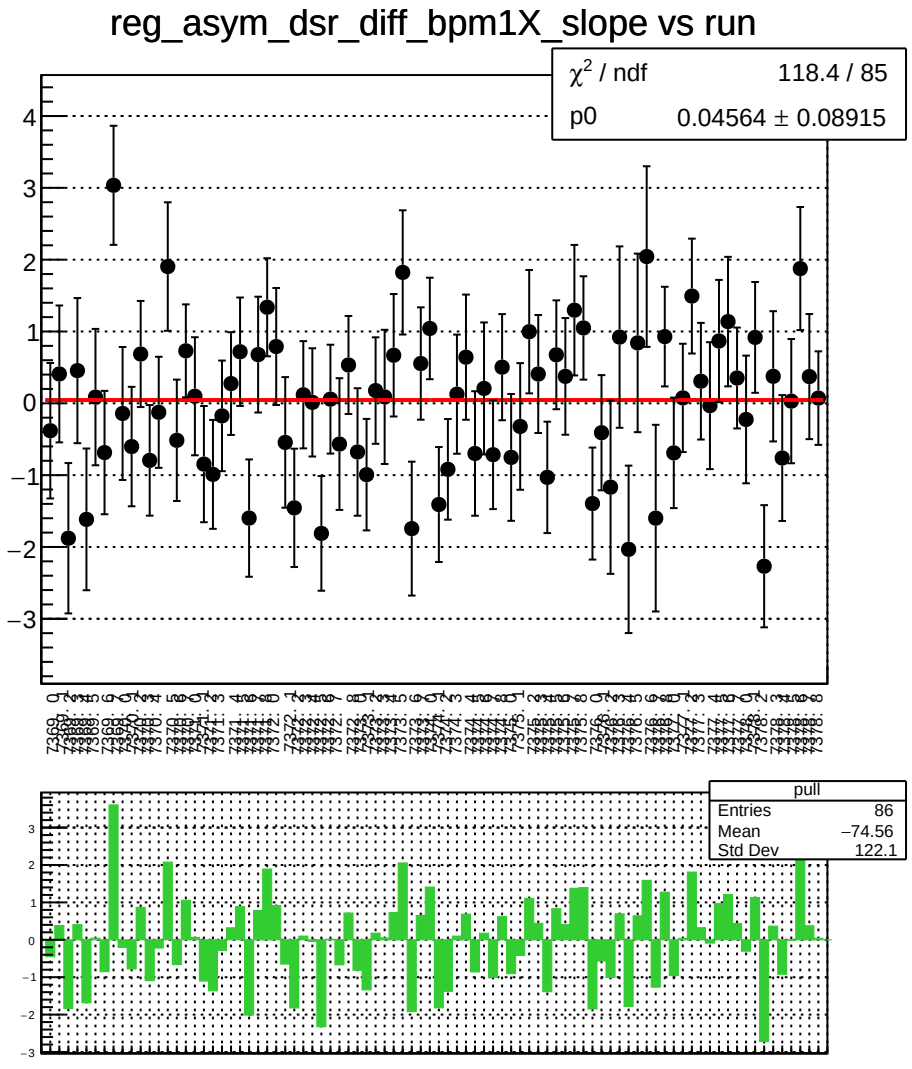

pull1D
Entries 86
Mean −0.03216
Std Dev 1.42

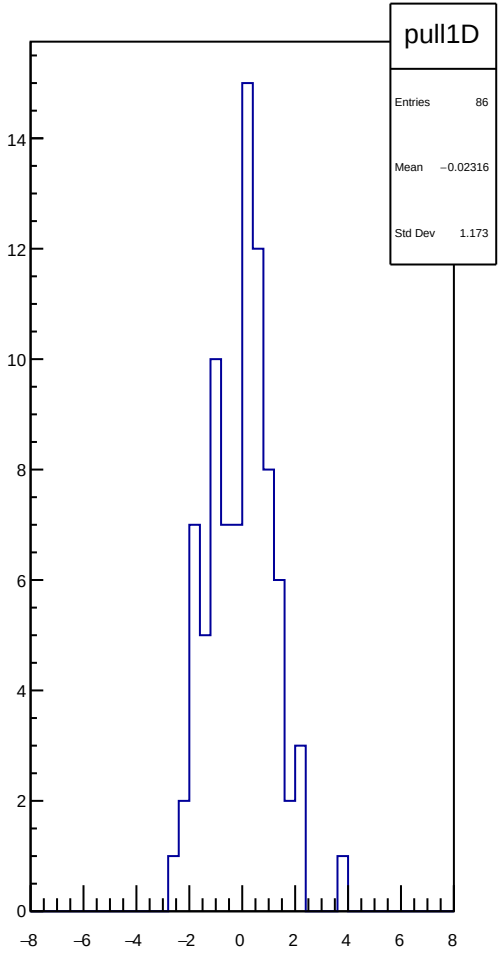

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 159.9 / 85
p0 0.1657 ± 0.09196
pull
Entries 86
Mean −1326
Std Dev 1355

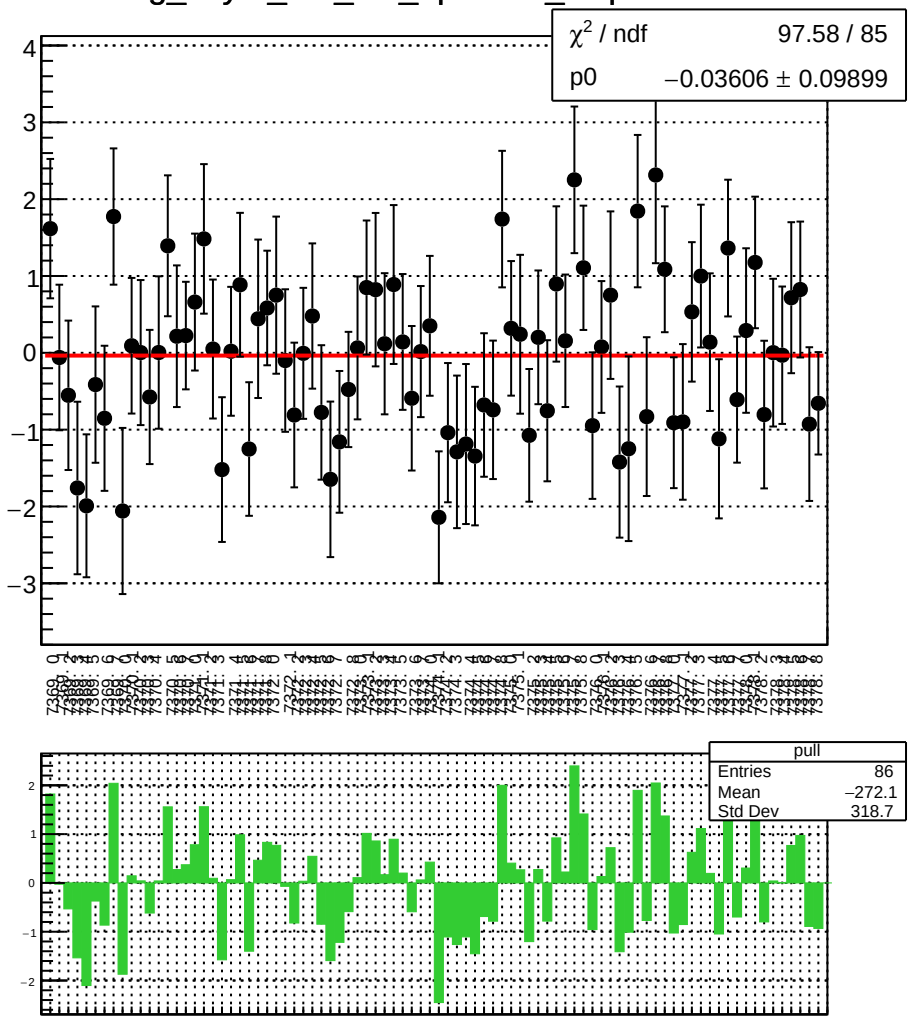

pull1D
Entries 86
Mean 0.002751
Std Dev 1.363

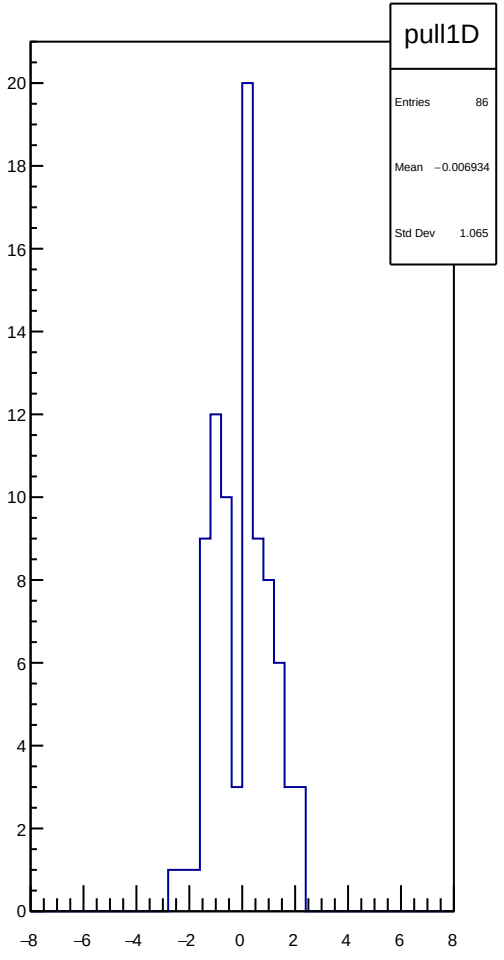

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 142.7 / 85
p0 0.00511± 0.004218
pull
Entries 86
Mean 407.6
Std Dev 354.5

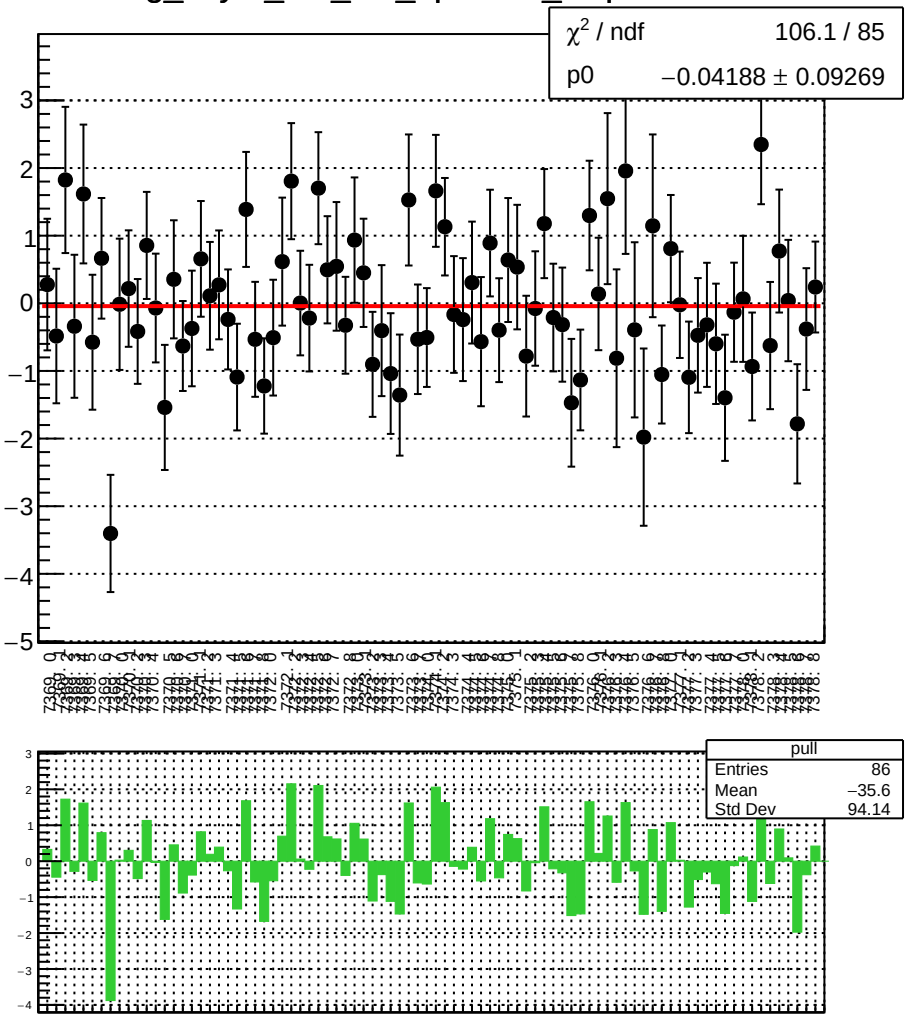

pull1D
Entries 86
Mean 0.01125
Std Dev 1.288

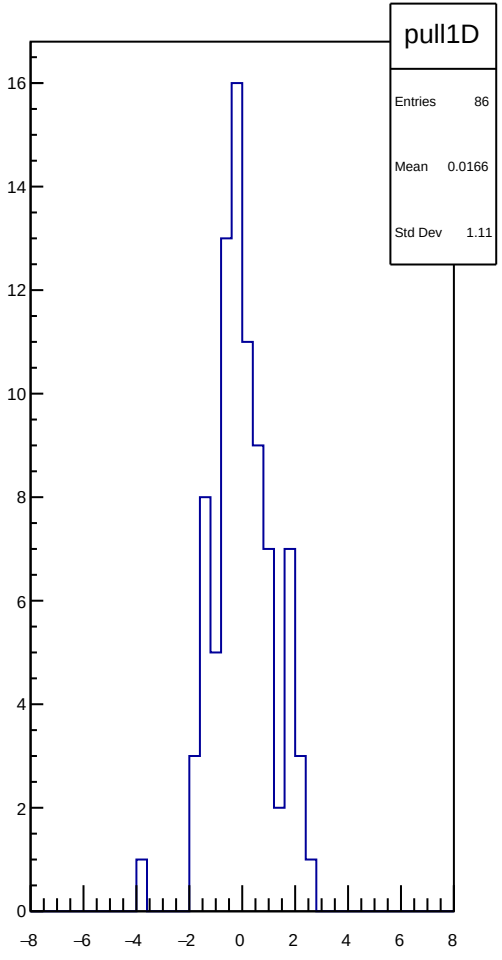

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 118.4 / 85
p0 0.04564 ± 0.08915
pull
Entries 86
Mean −74.56
Std Dev 122.1

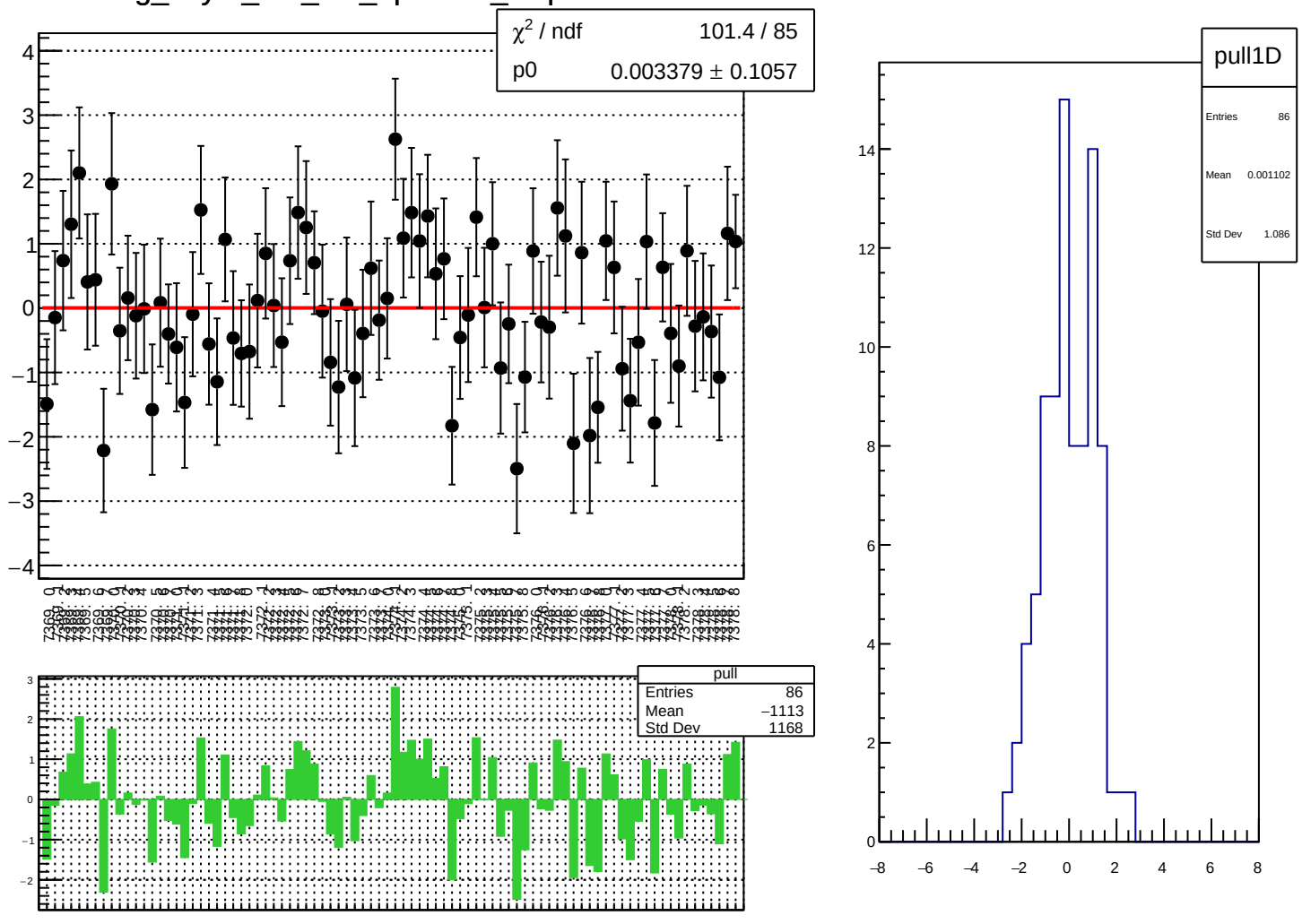

pull1D
Entries 86
Mean −0.02316
Std Dev 1.173

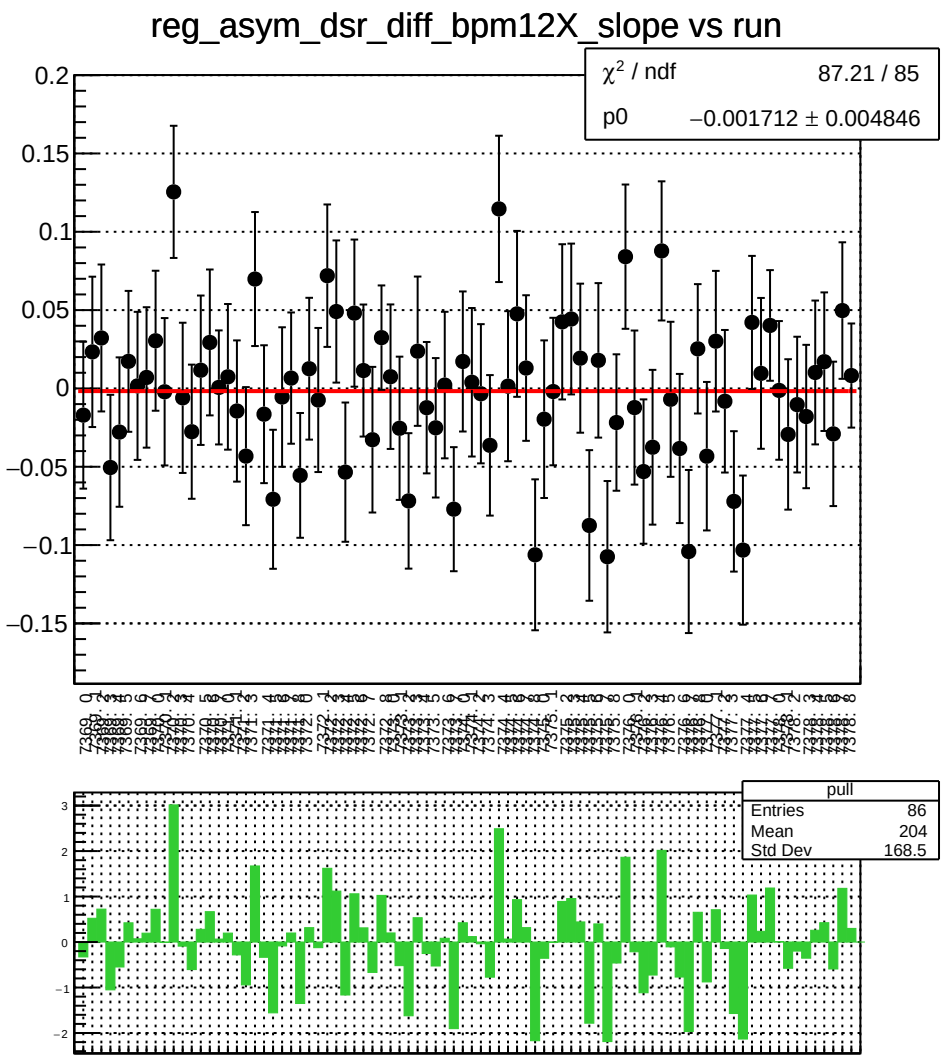

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 97.58 / 85
p0 −0.03606 ± 0.09899
pull
Entries 86
Mean −272.1
Std Dev 318.7

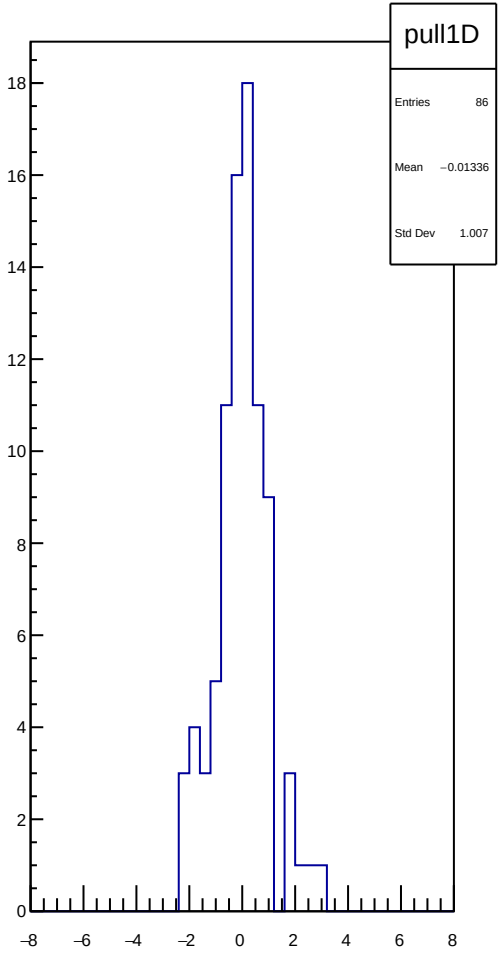

pull1D
Entries 86
Mean −0.006934
Std Dev 1.065

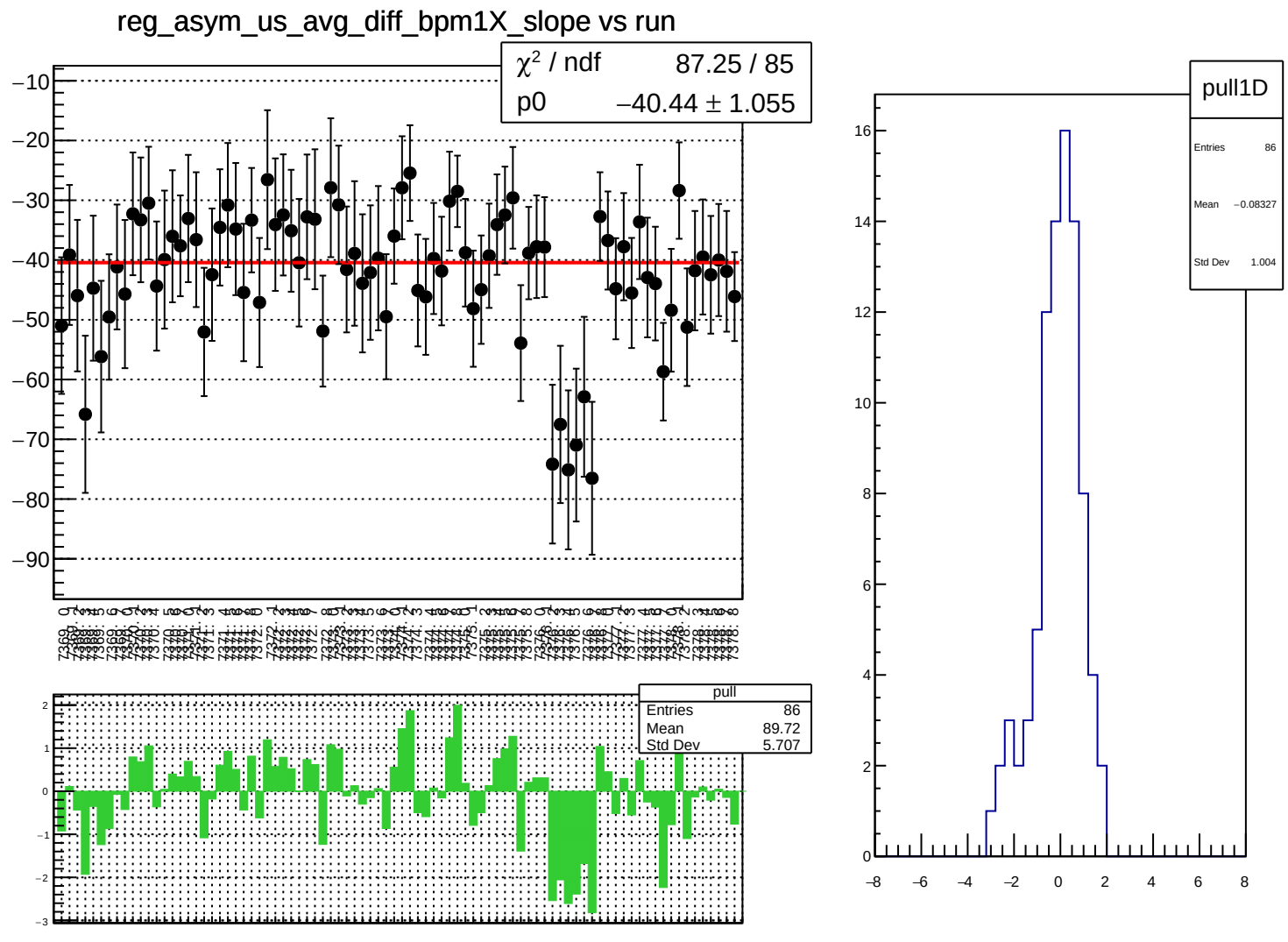

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 106.1 / 85
p0 −0.04188 ± 0.09269
pull
Entries 86
Mean −35.6
Std Dev 94.14

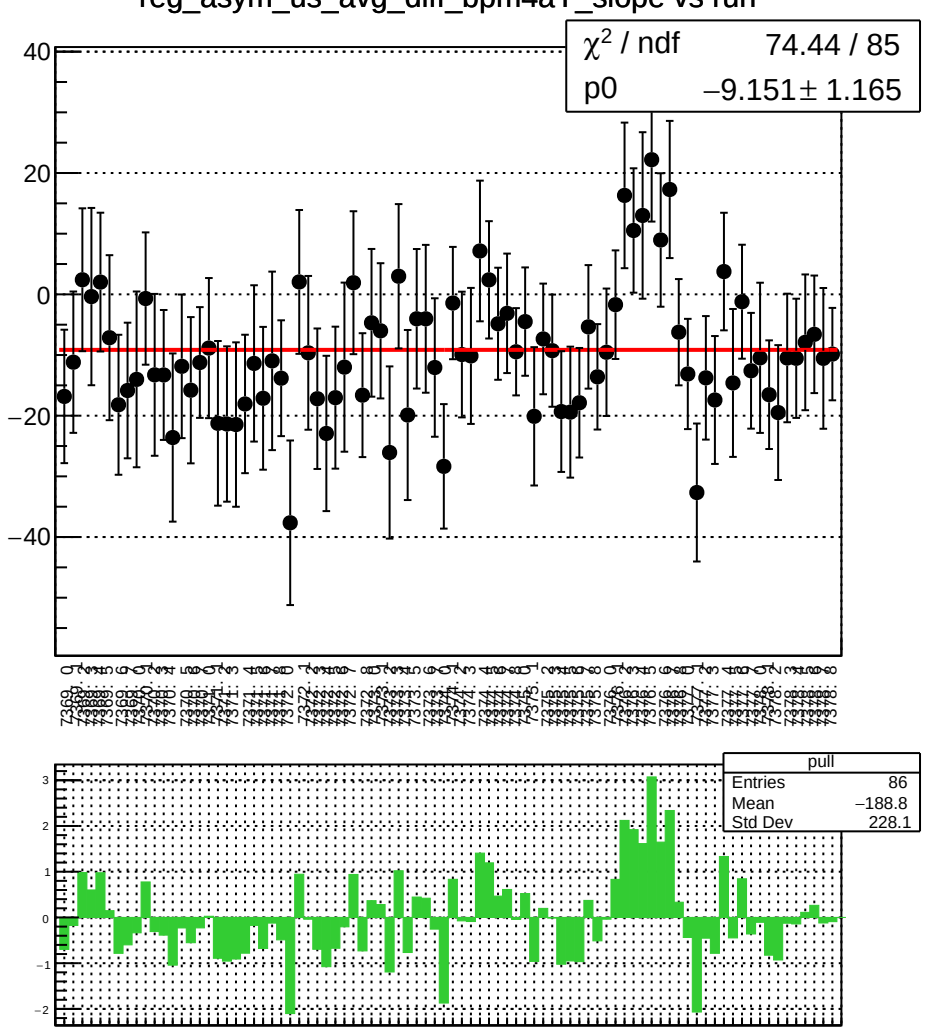

pull1D
Entries 86
Mean 0.0166
Std Dev 1.11

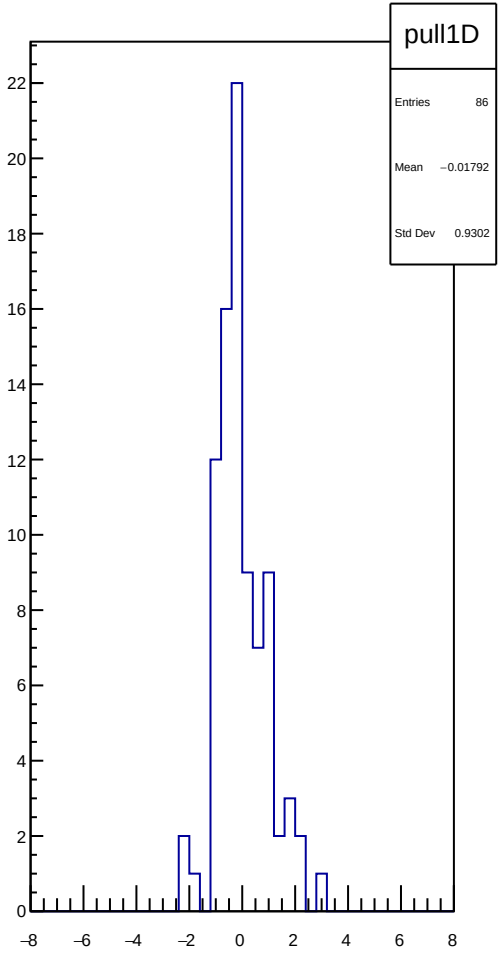

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 101.4 / 85
p0 0.003379 ± 0.1057
pull
Entries 86
Mean −1113
Std Dev 1168
pull1D
Entries 86
Mean 0.001102
Std Dev 1.086

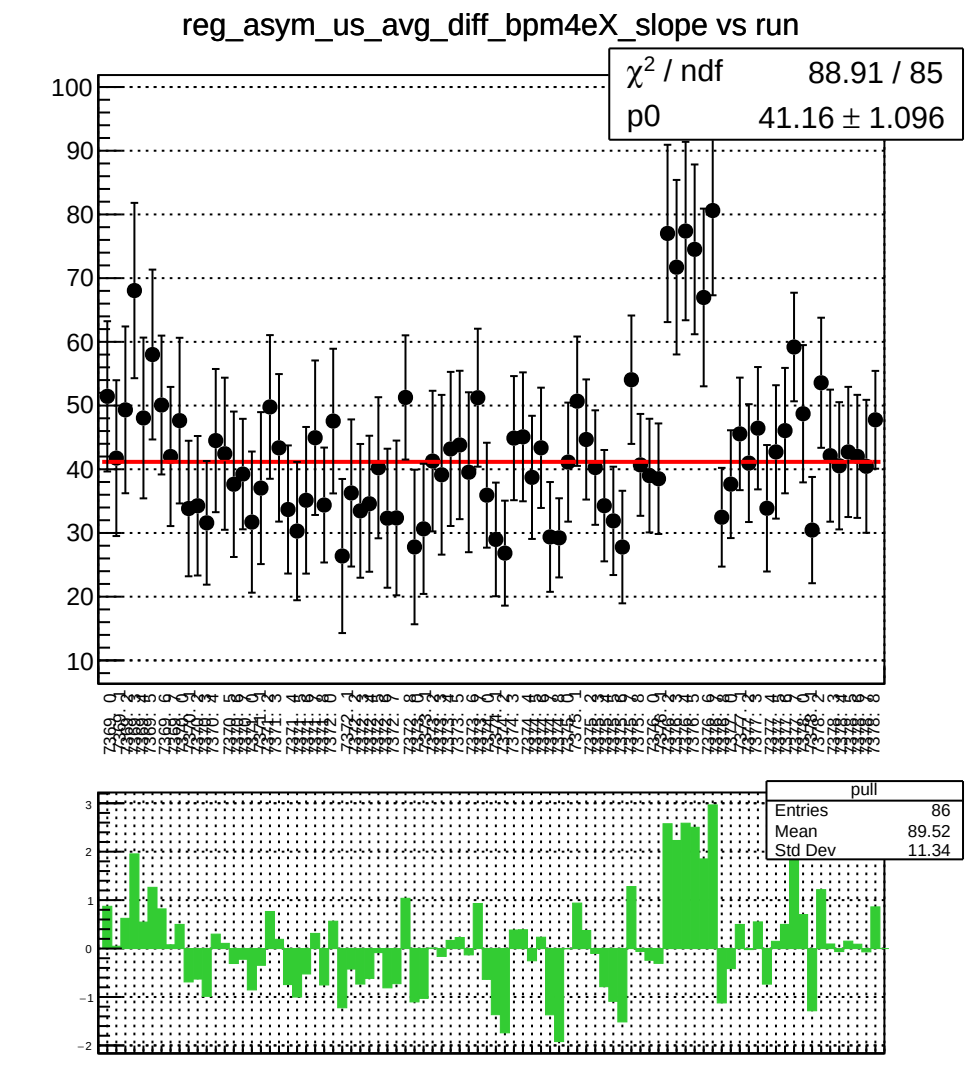

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 87.21 / 85
p0 −0.001712 ± 0.004846
pull
Entries 86
Mean 204
Std Dev 168.5

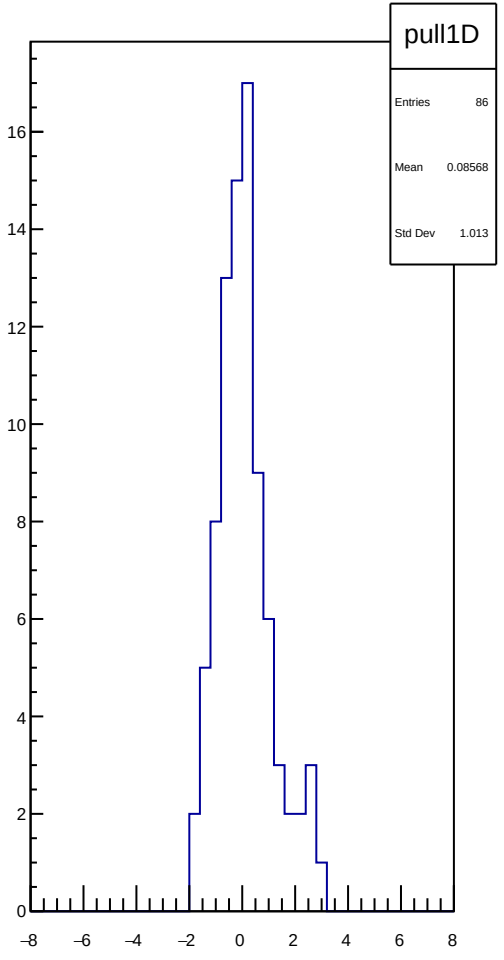

pull1D
Entries 86
Mean −0.01336
Std Dev 1.007

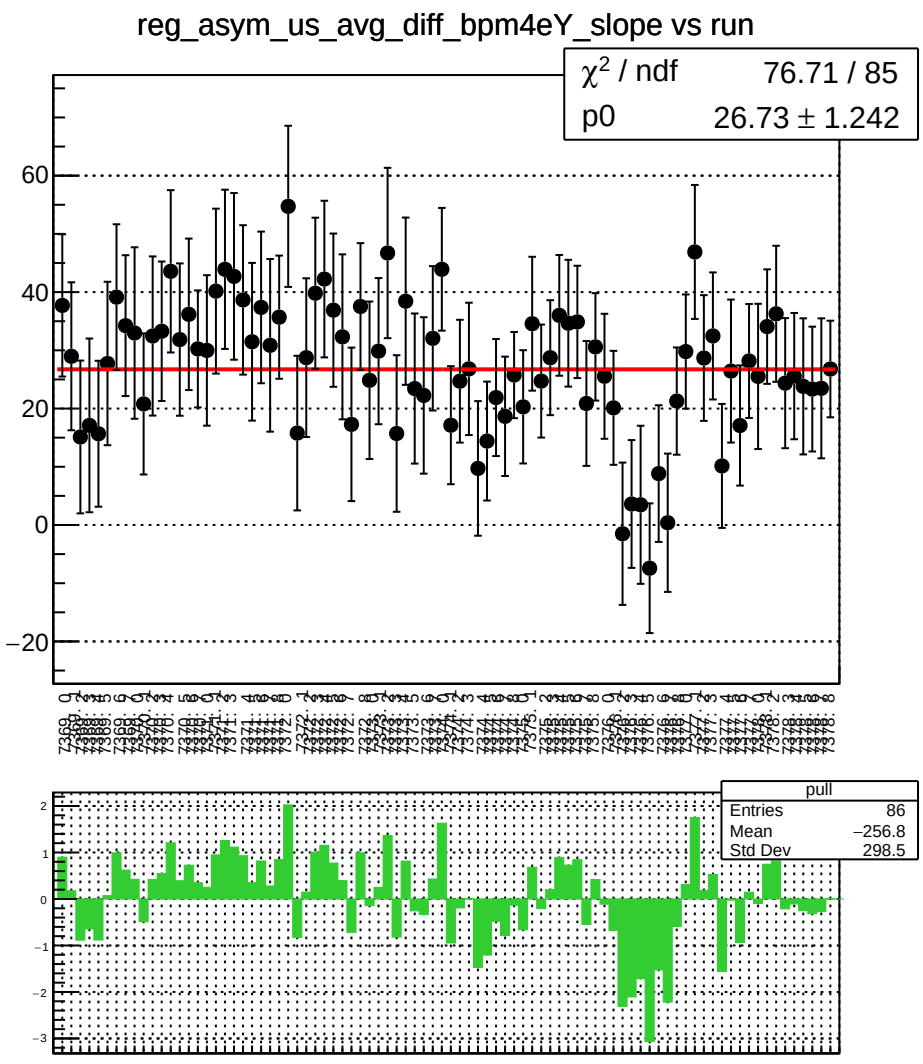

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 87.25 / 85
p0 −40.44 ± 1.055
pull
Entries 86
Mean 89.72
Std Dev 5.707
pull1D
Entries 86
Mean −0.08327
Std Dev 1.004

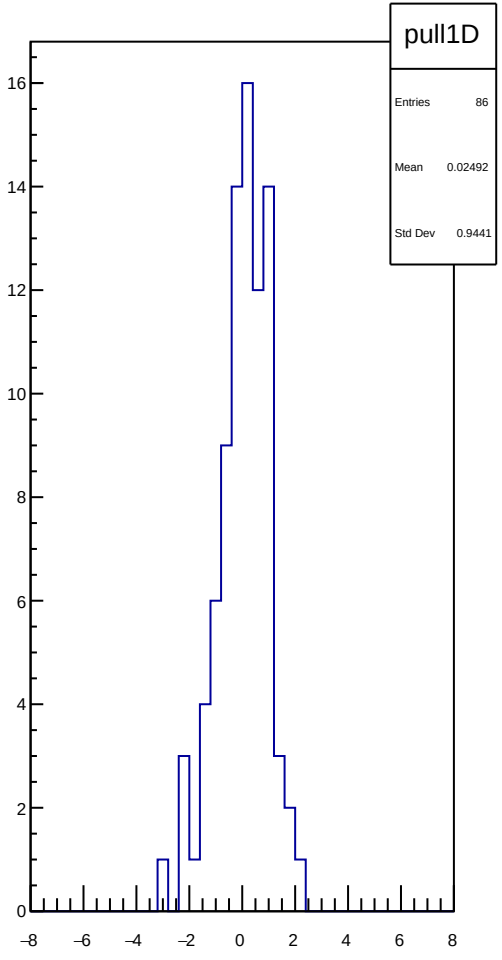

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 74.44 / 85
p0 −9.151 ± 1.165
pull
Entries 86
Mean −188.8
Std Dev 228.1

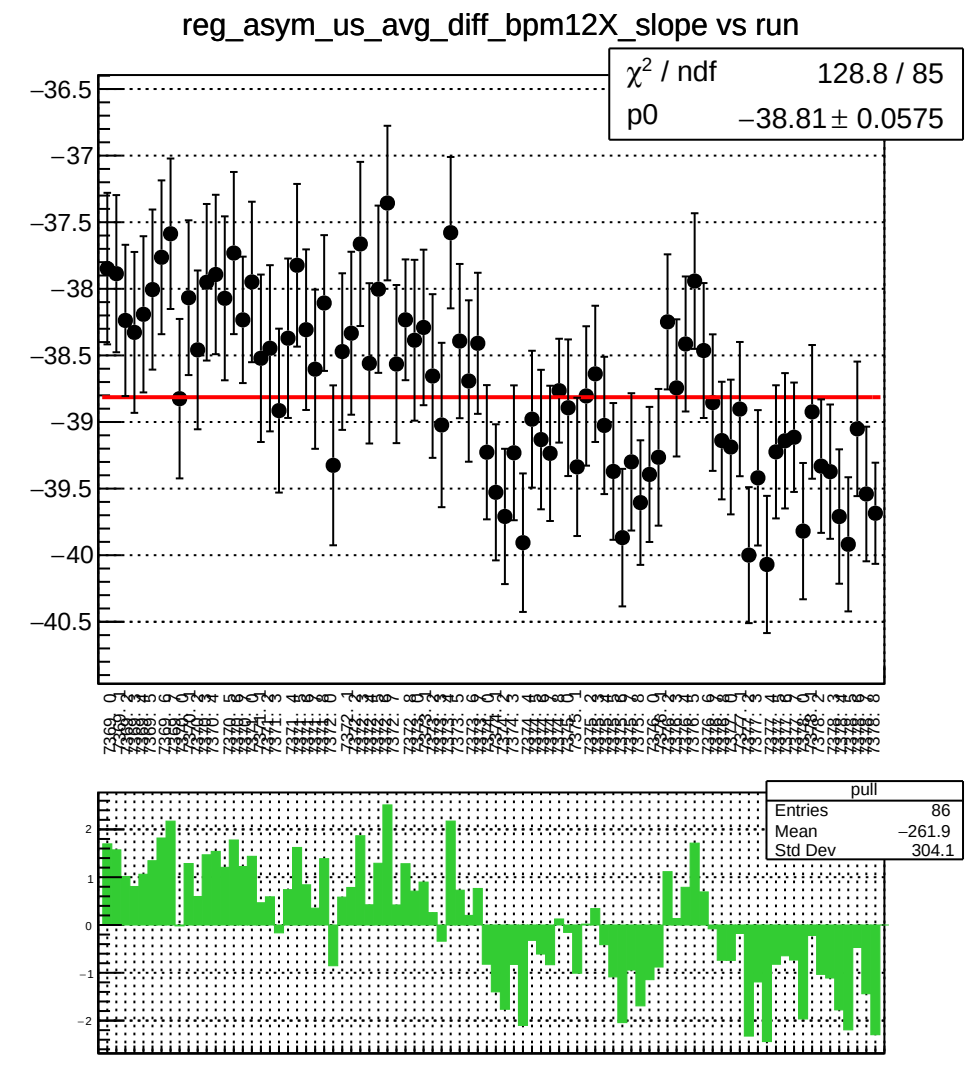

pull1D
Entries 86
Mean −0.01792
Std Dev 0.9302

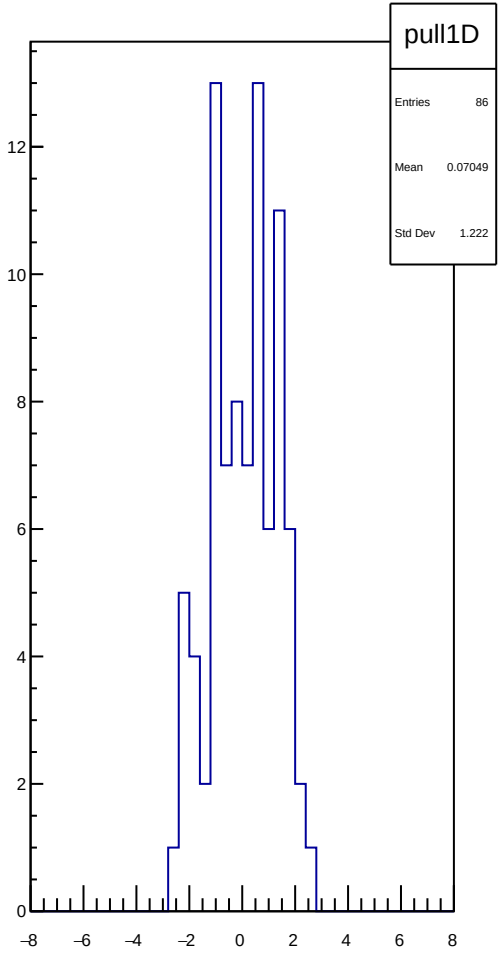

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 88.91 / 85
p0 41.16 ± 1.096
pull
Entries 86
Mean 89.52
Std Dev 11.34

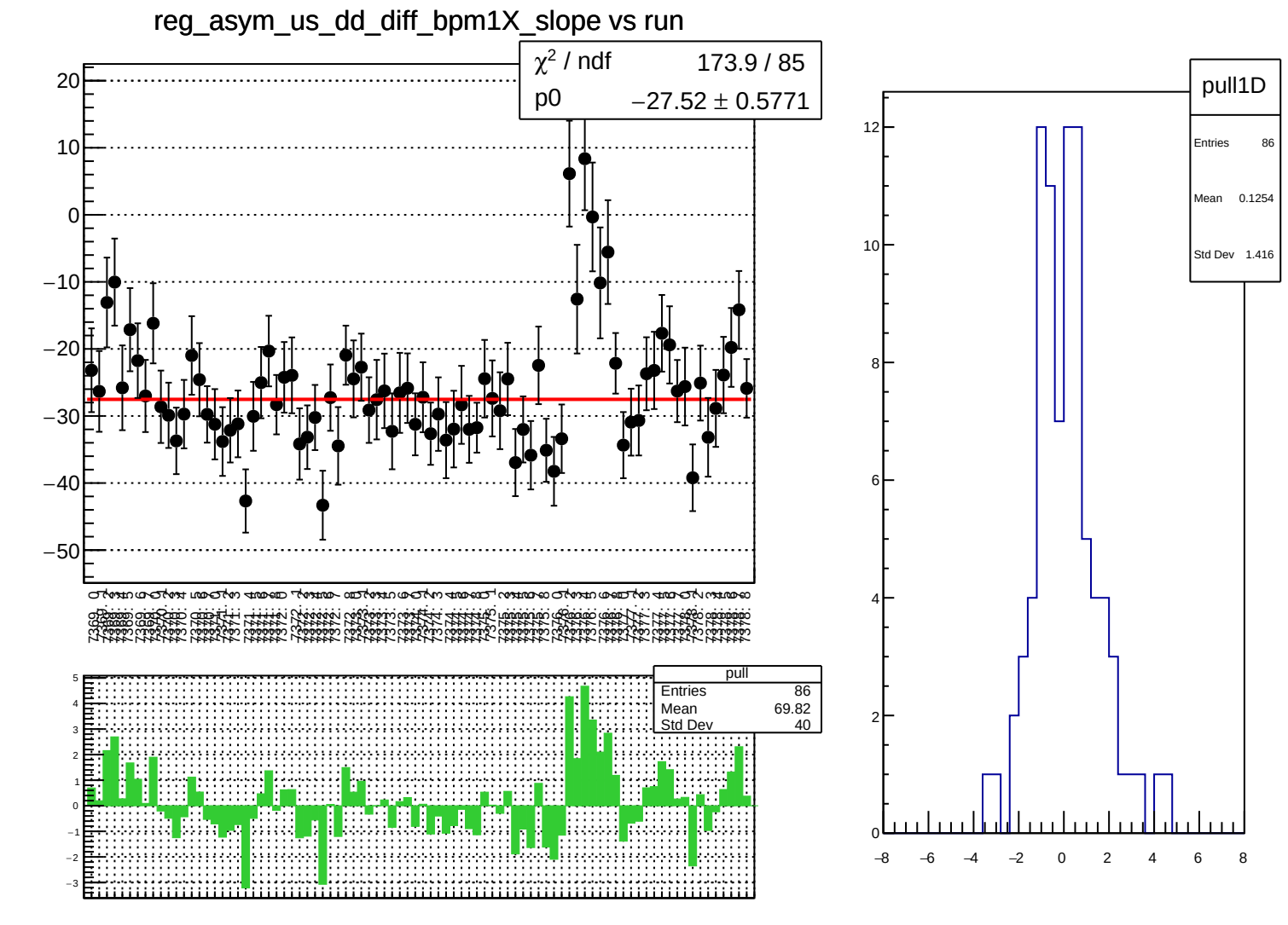

pull1D
Entries 86
Mean 0.08568
Std Dev 1.013

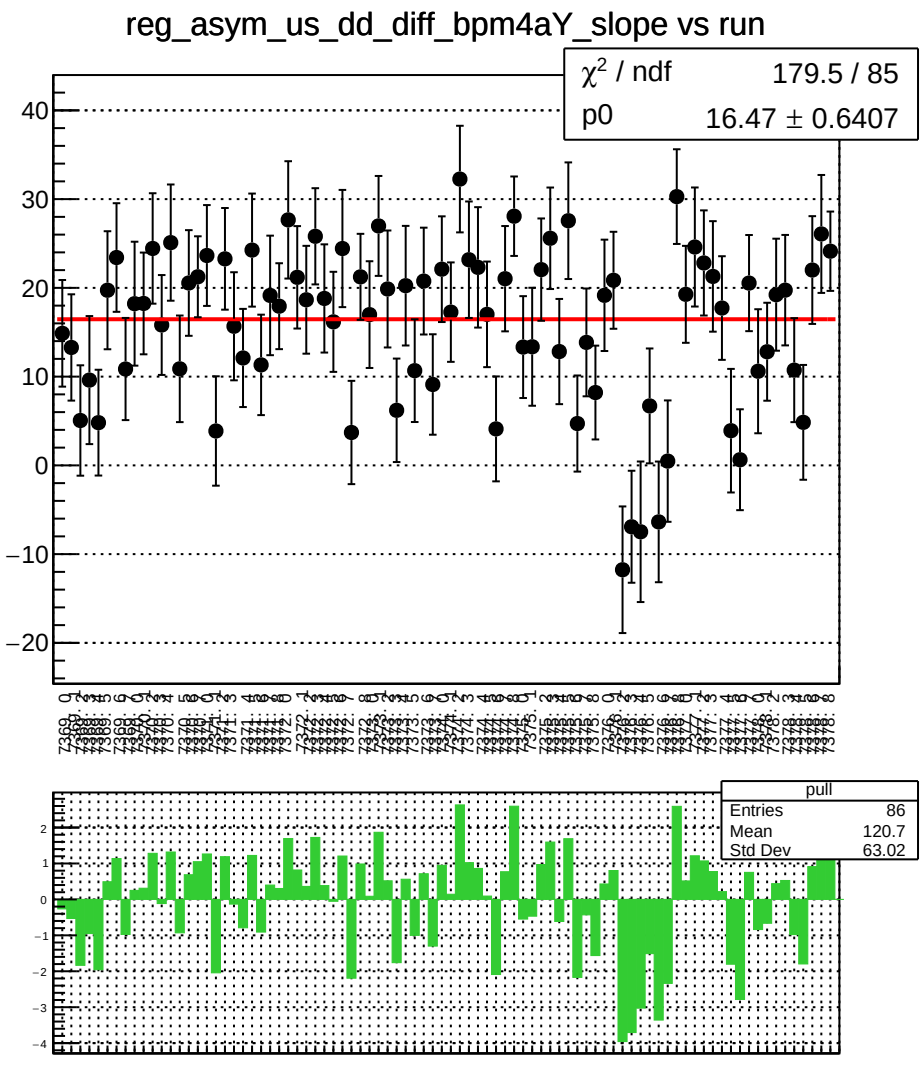

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 76.71 / 85
p0 26.73 ± 1.242
pull
Entries 86
Mean −256.8
Std Dev 298.5

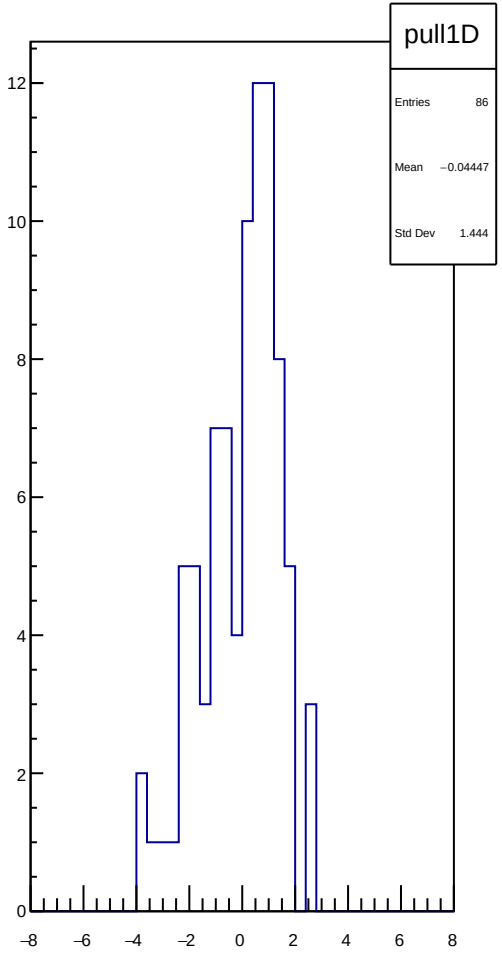

pull1D
Entries 86
Mean 0.02492
Std Dev 0.9441

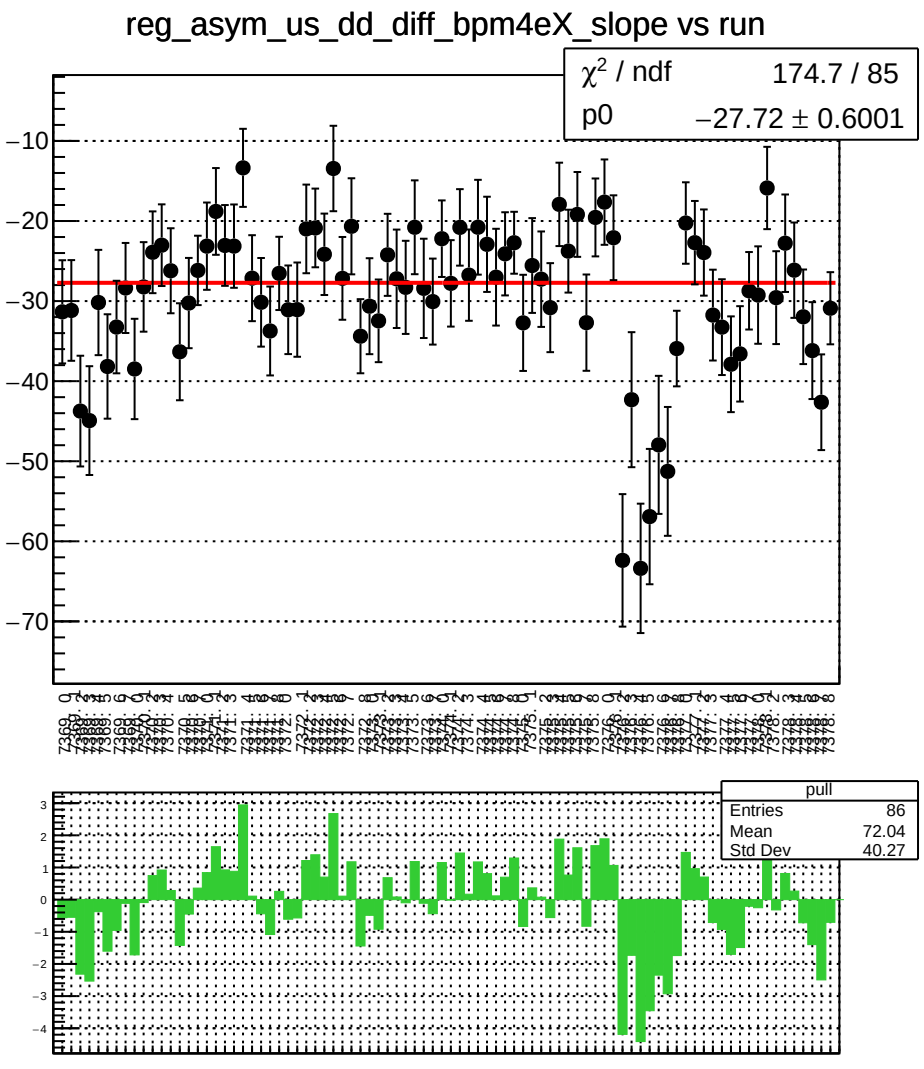

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 128.8 / 85
p0 −38.81 ± 0.0575
pull
Entries 86
Mean −261.9
Std Dev 304.1

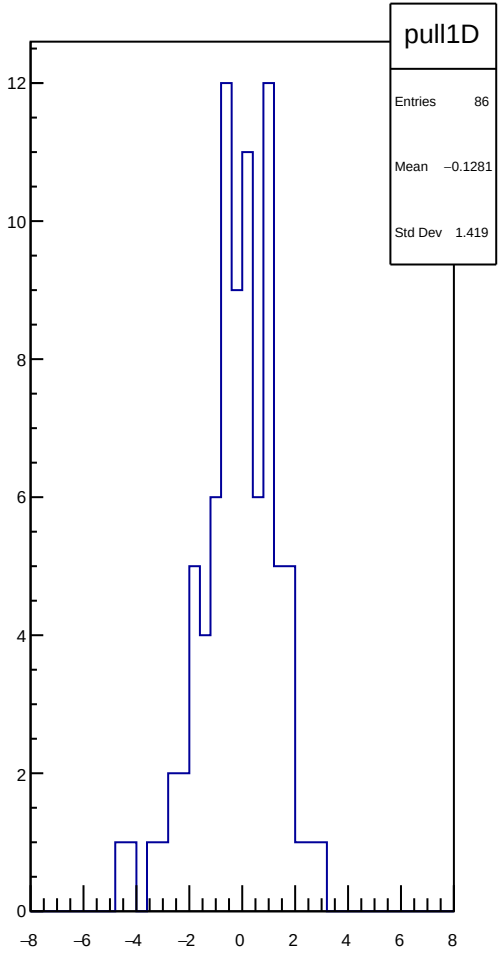

pull1D
Entries 86
Mean 0.07049
Std Dev 1.222

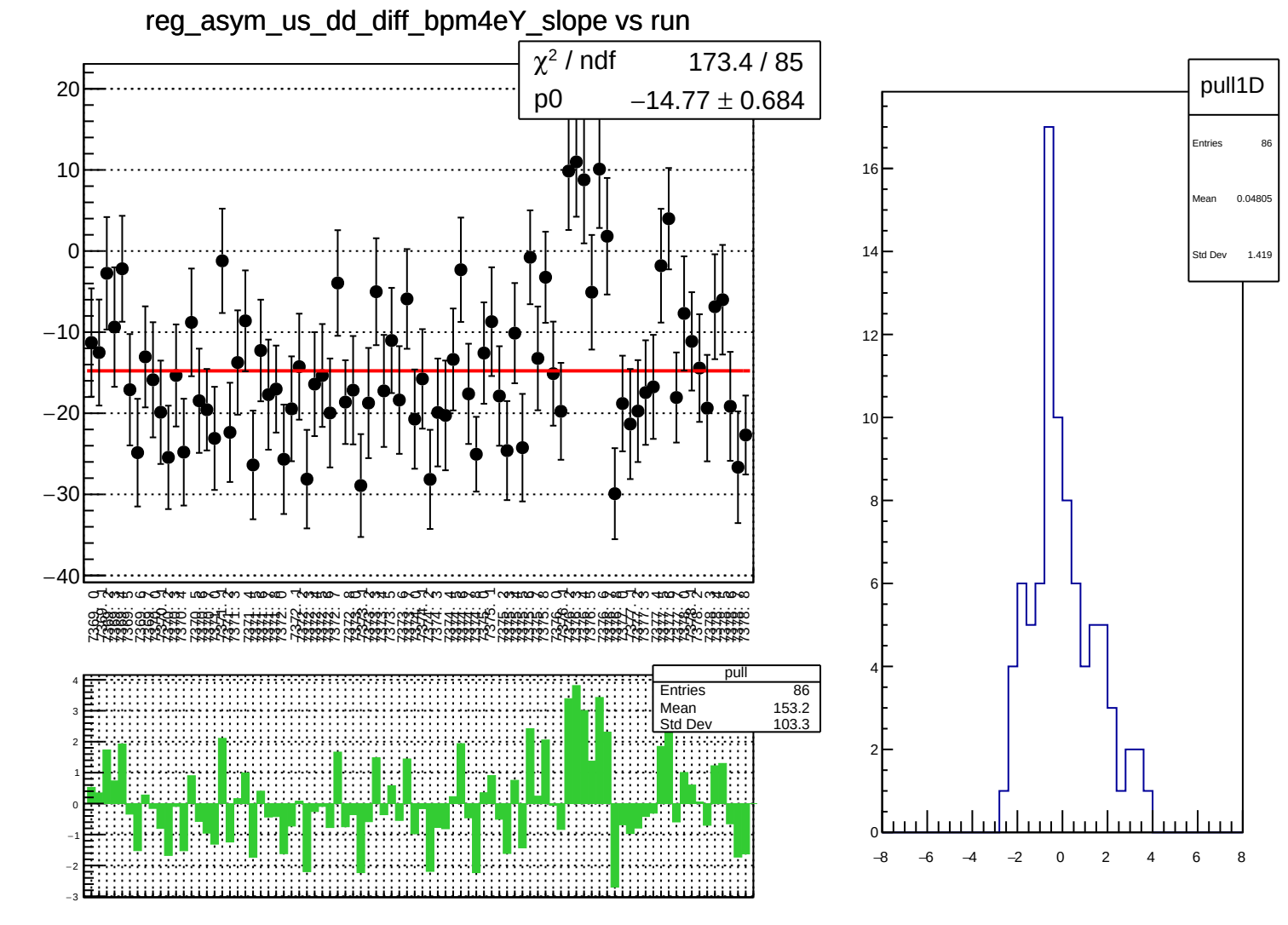

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 173.9 / 85
p0 −27.52 ± 0.5771
pull
Entries 86
Mean 69.82
Std Dev 40
pull1D
Entries 86
Mean 0.1254
Std Dev 1.416

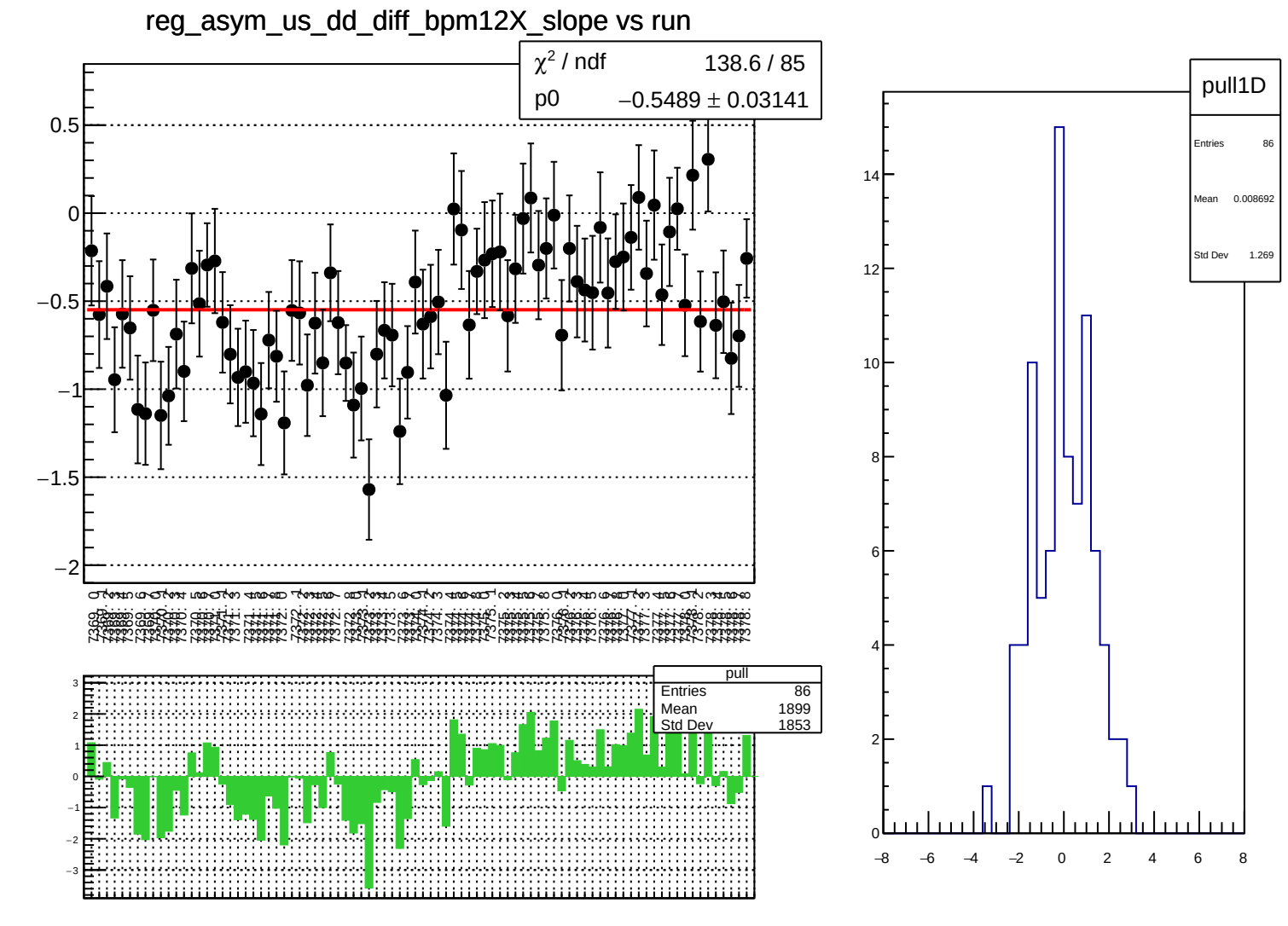

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 179.5 / 85
p0 16.47 ± 0.6407
pull
Entries 86
Mean 120.7
Std Dev 63.02

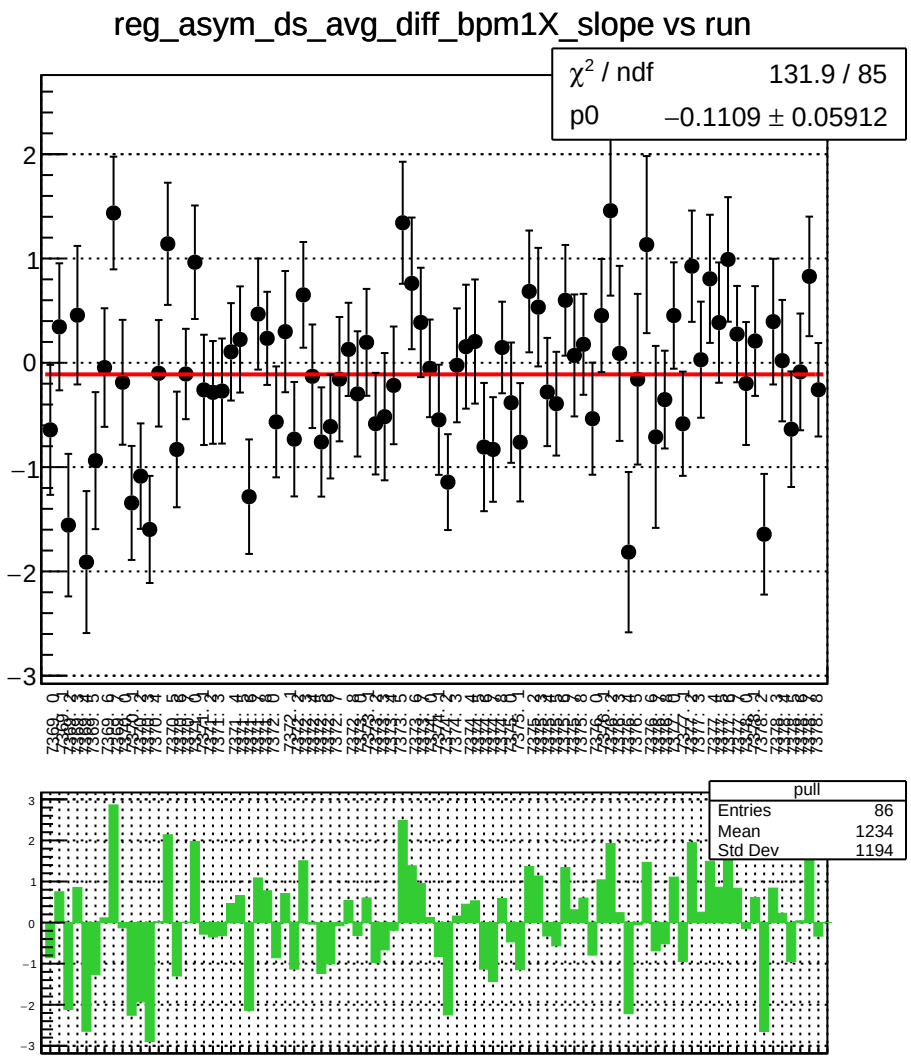

pull1D
Entries 86
Mean −0.04447
Std Dev 1.444

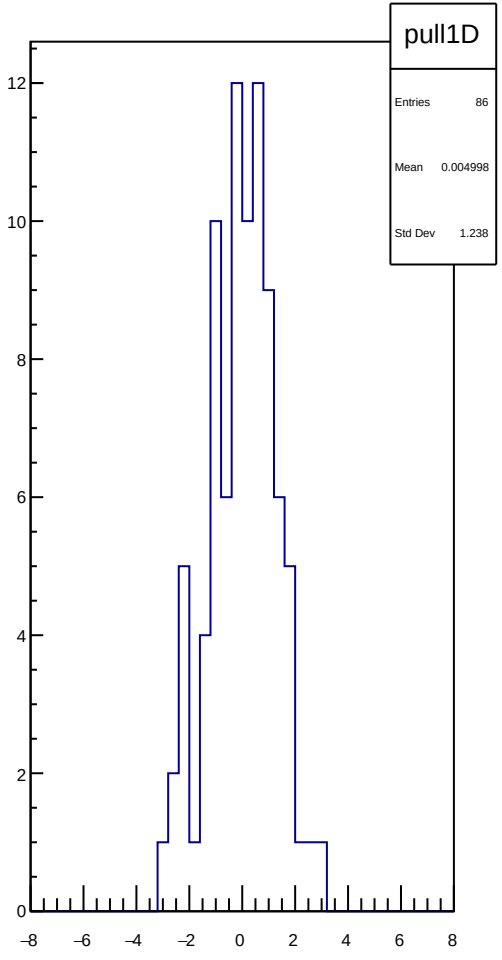

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 174.7 / 85
p0 −27.72 ± 0.6001
pull
Entries 86
Mean 72.04
Std Dev 40.27

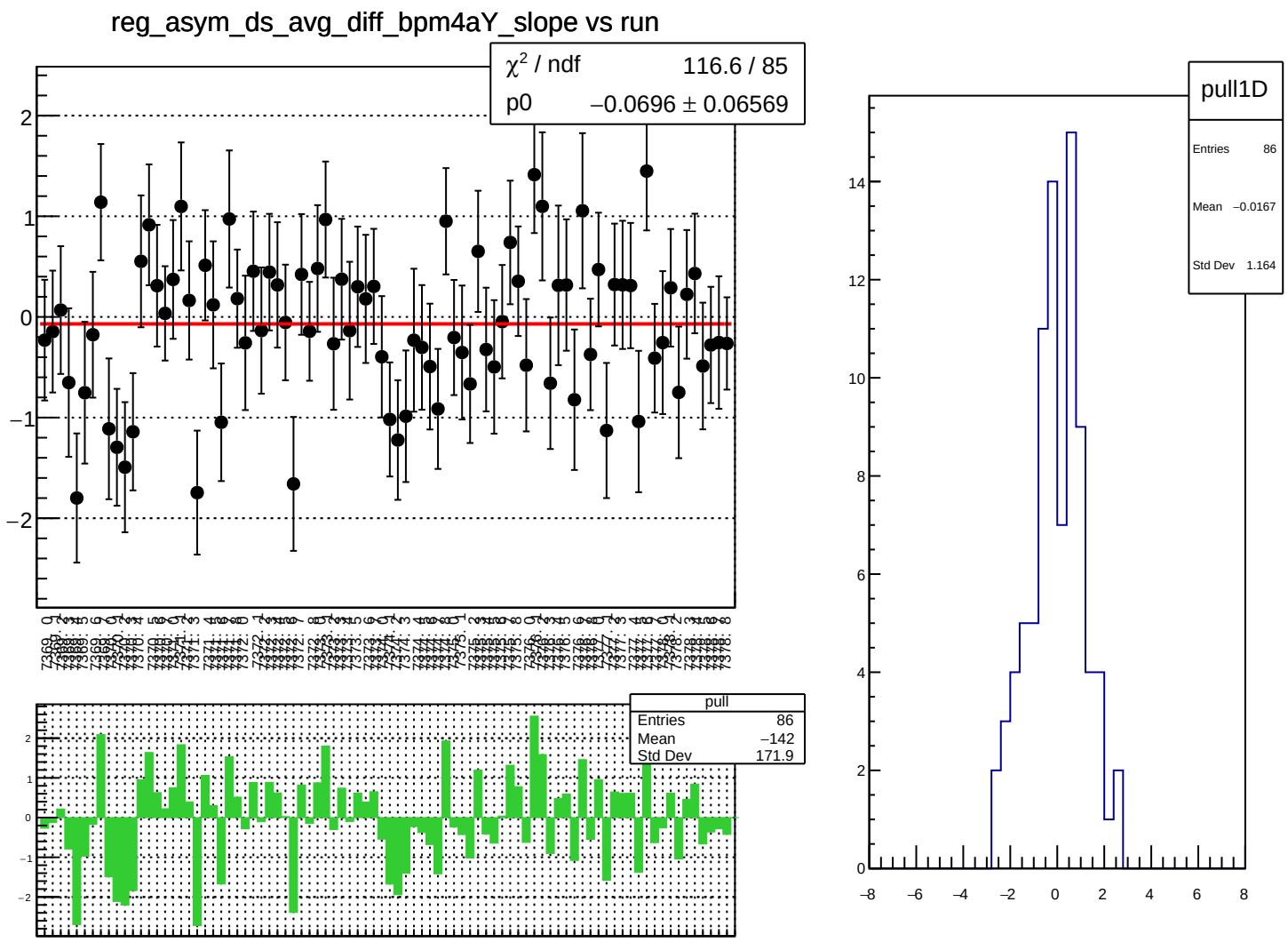

pull1D
Entries 86
Mean −0.1281
Std Dev 1.419

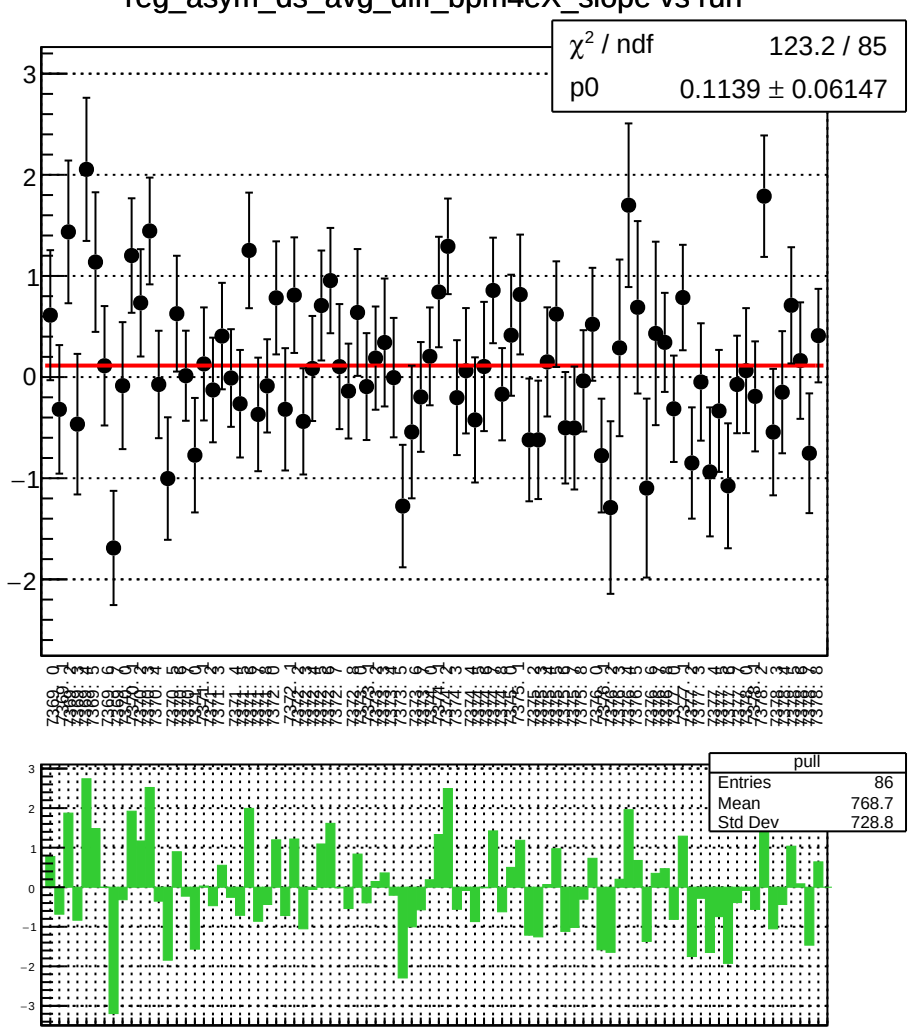

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 173.4 / 85
p0 −14.77 ± 0.684
pull
Entries 86
Mean 153.2
Std Dev 103.3
pull1D
Entries 86
Mean 0.04805
Std Dev 1.419

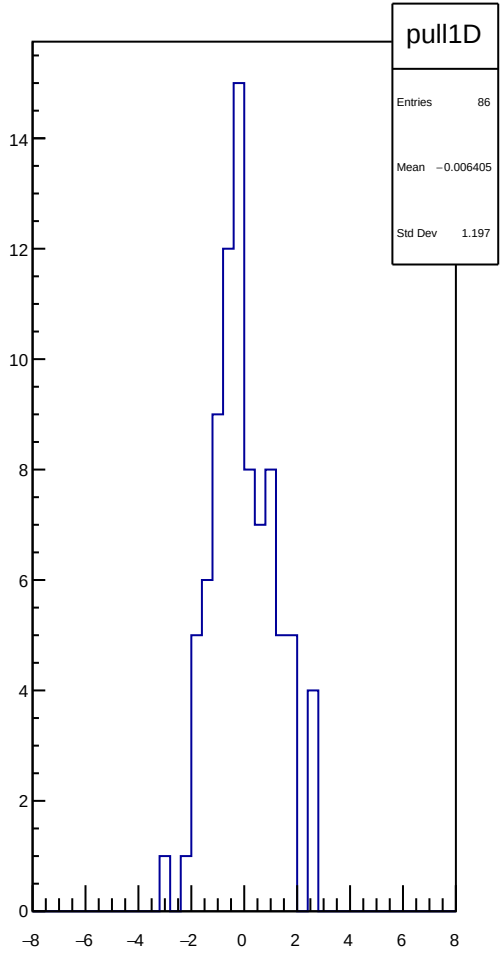

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 138.6 / 85
p0 −0.5489 ± 0.03141
pull
Entries 86
Mean 1899
Std Dev 1853
pull1D
Entries 86
Mean 0.008692
Std Dev 1.269

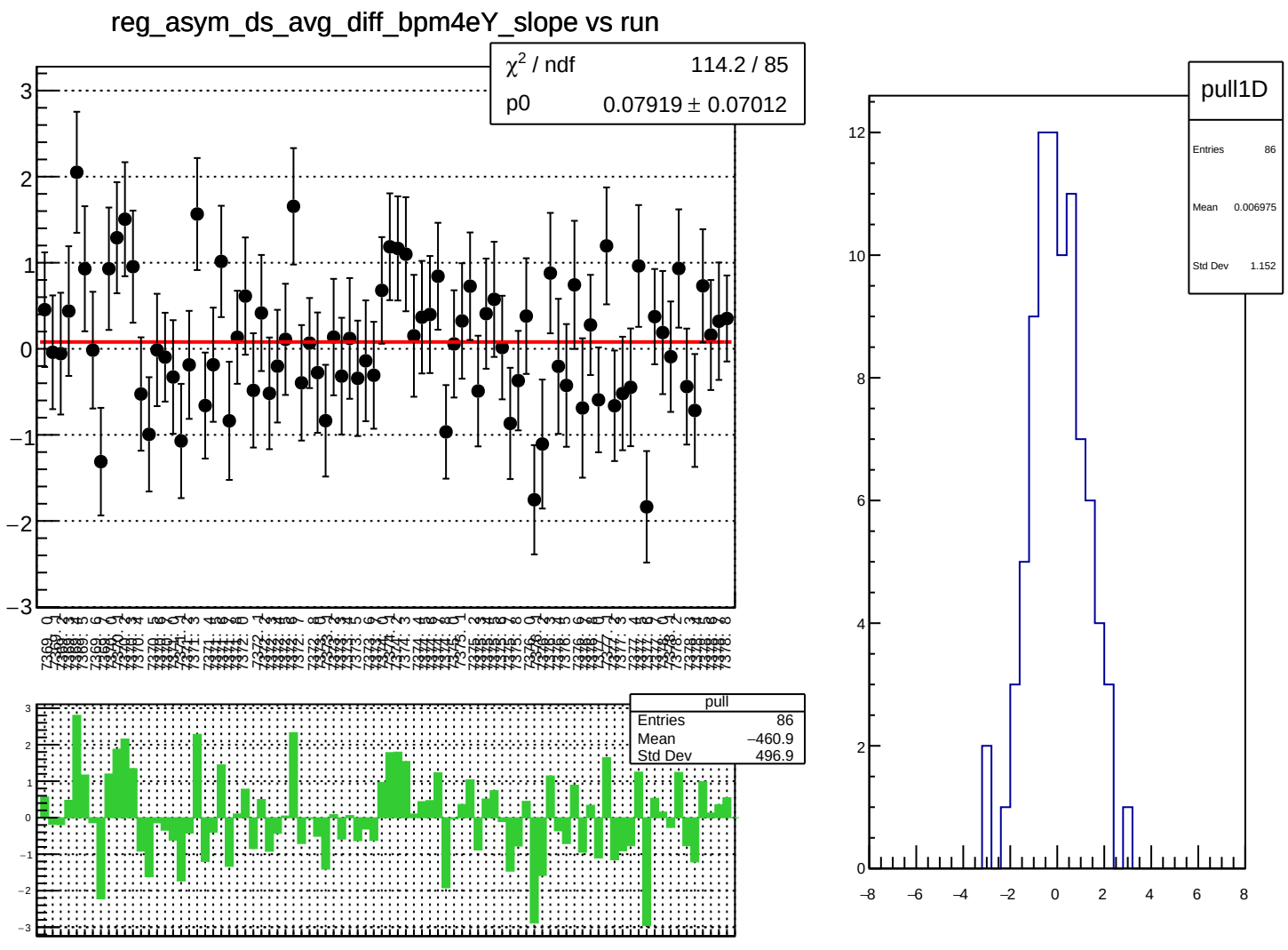

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ^2 / ndf 131.9 / 85
p0 −0.1109 ± 0.05912
pull
Entries 86
Mean 1234
Std Dev 1194

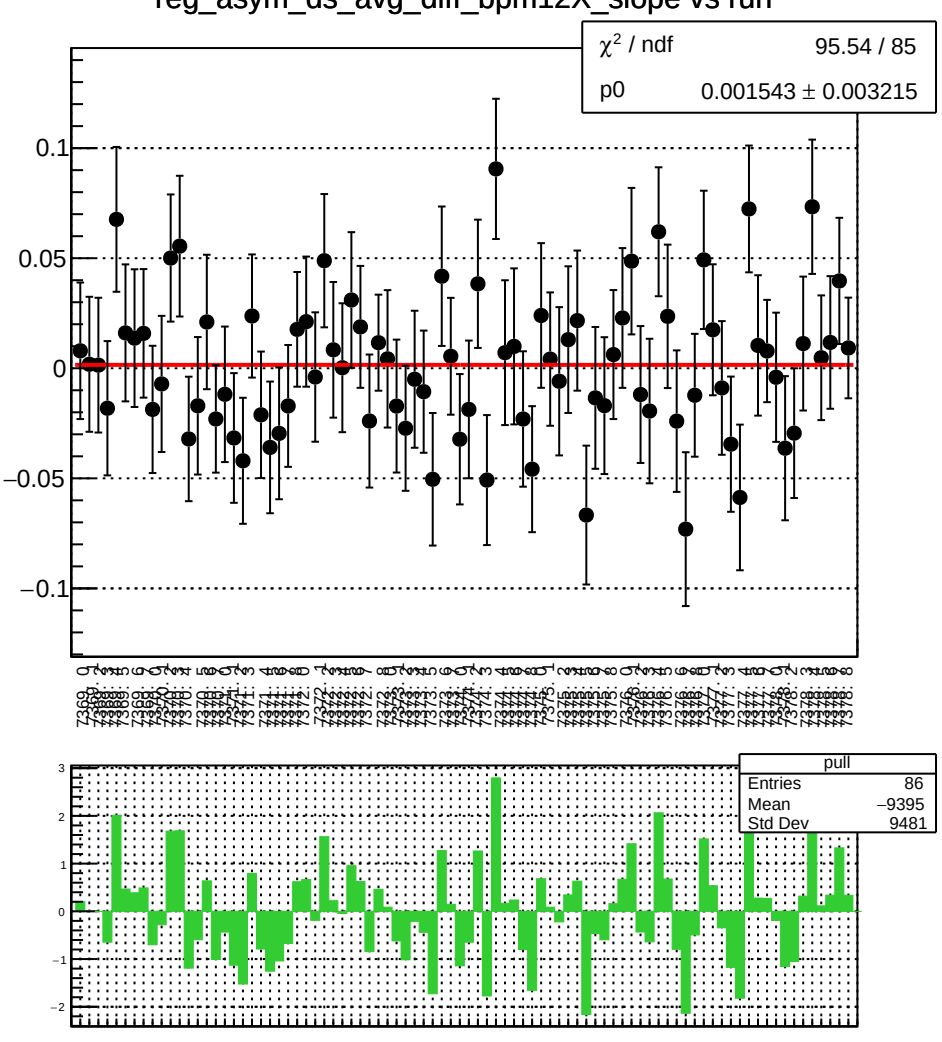

pull1D
Entries 86
Mean 0.004998
Std Dev 1.238

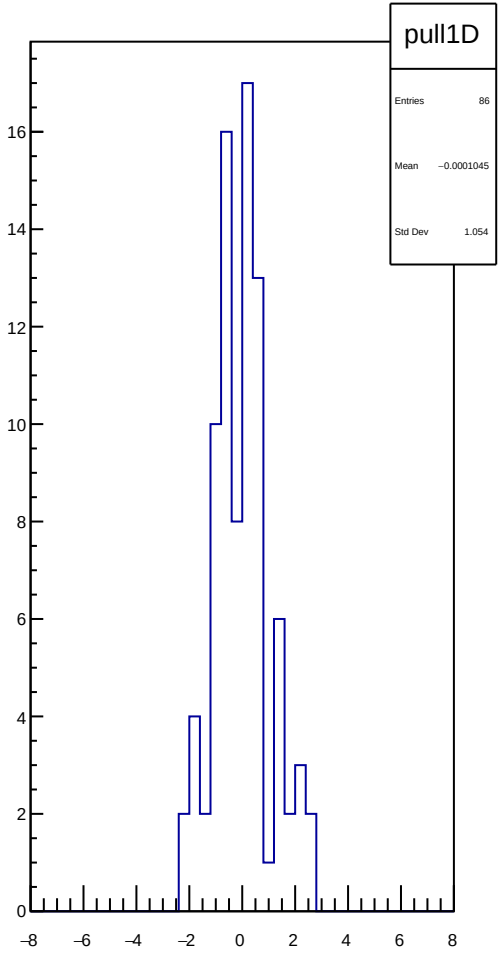

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 116.6 / 85
p0 −0.0696 ± 0.06569
pull
Entries 86
Mean −142
Std Dev 171.9
pull1D
Entries 86
Mean −0.0167
Std Dev 1.164

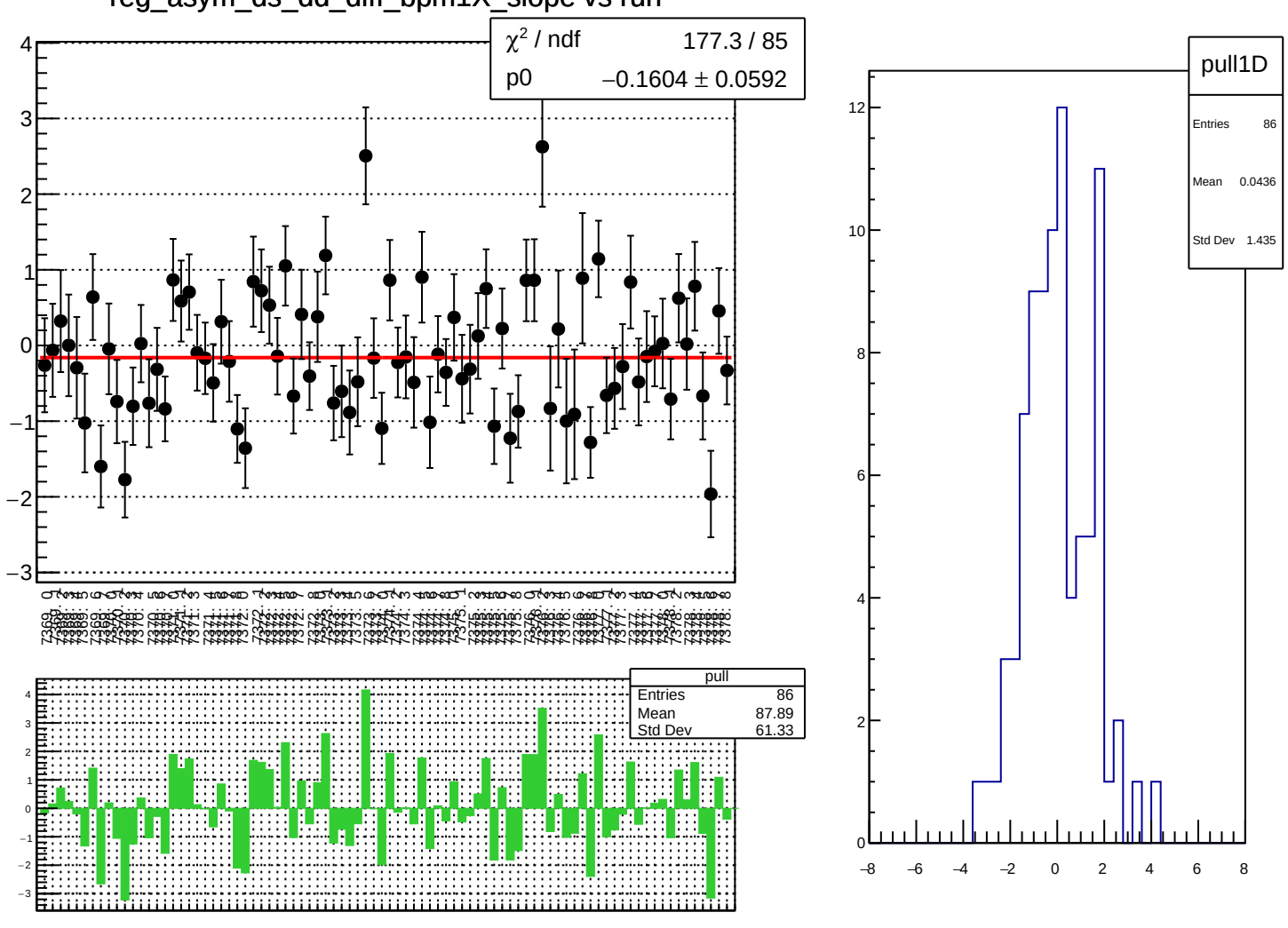

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 123.2 / 85
p0 0.1139 ± 0.06147
pull
Entries 86
Mean 768.7
Std Dev 728.8

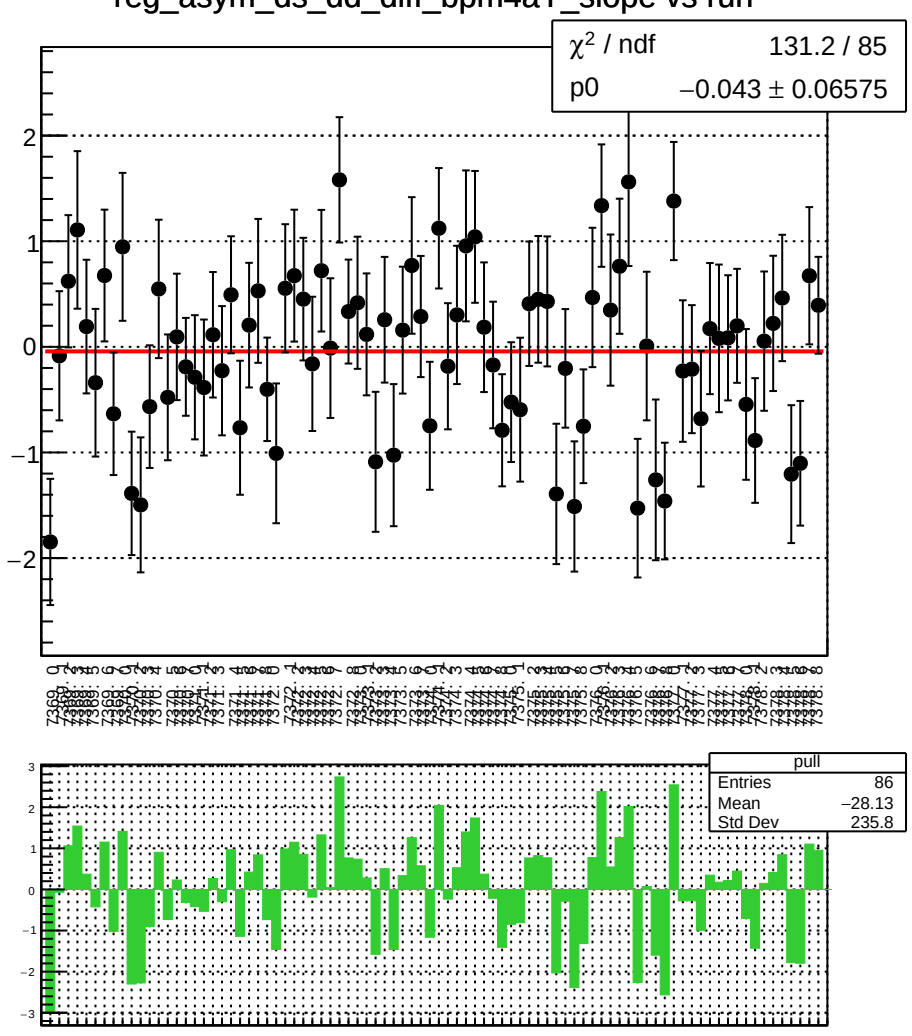

pull1D
Entries 86
Mean −0.006405
Std Dev 1.197

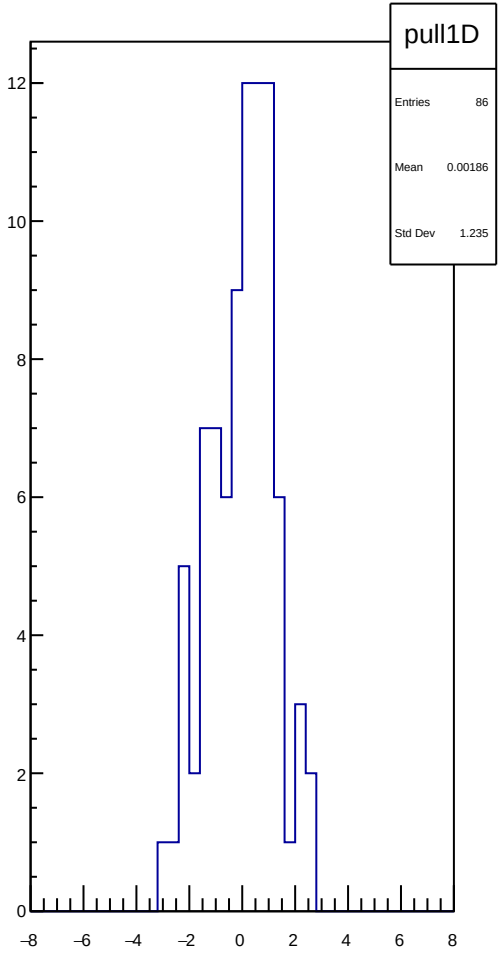

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 114.2 / 85
p0 0.07919 ± 0.07012
pull
Entries 86
Mean −460.9
Std Dev 496.9
pull1D
Entries 86
Mean 0.006975
Std Dev 1.152

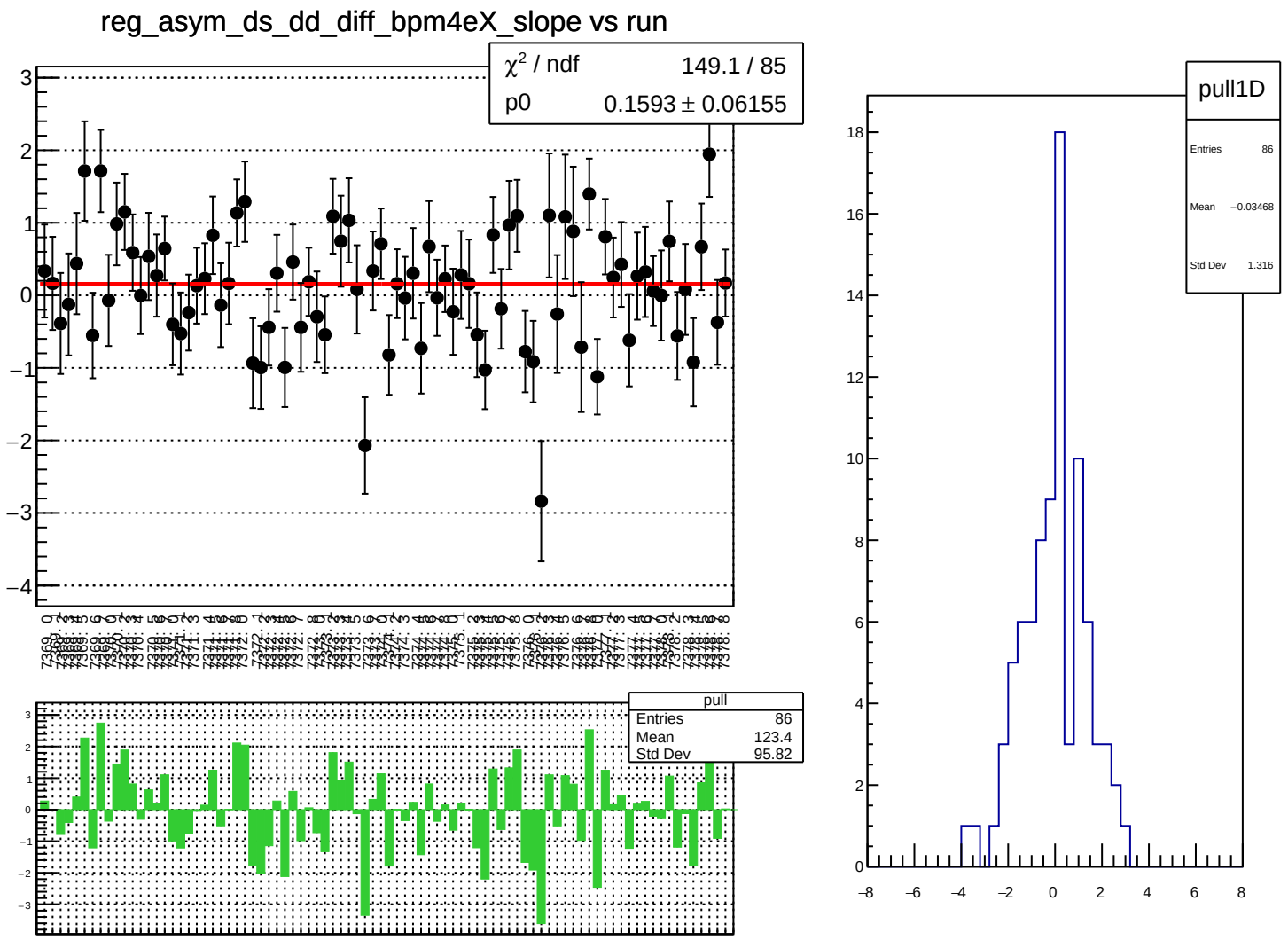

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 95.54 / 85
p0 0.001543 ± 0.003215
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean −9395
Std Dev 9481
3
2
1
0
−1
−2

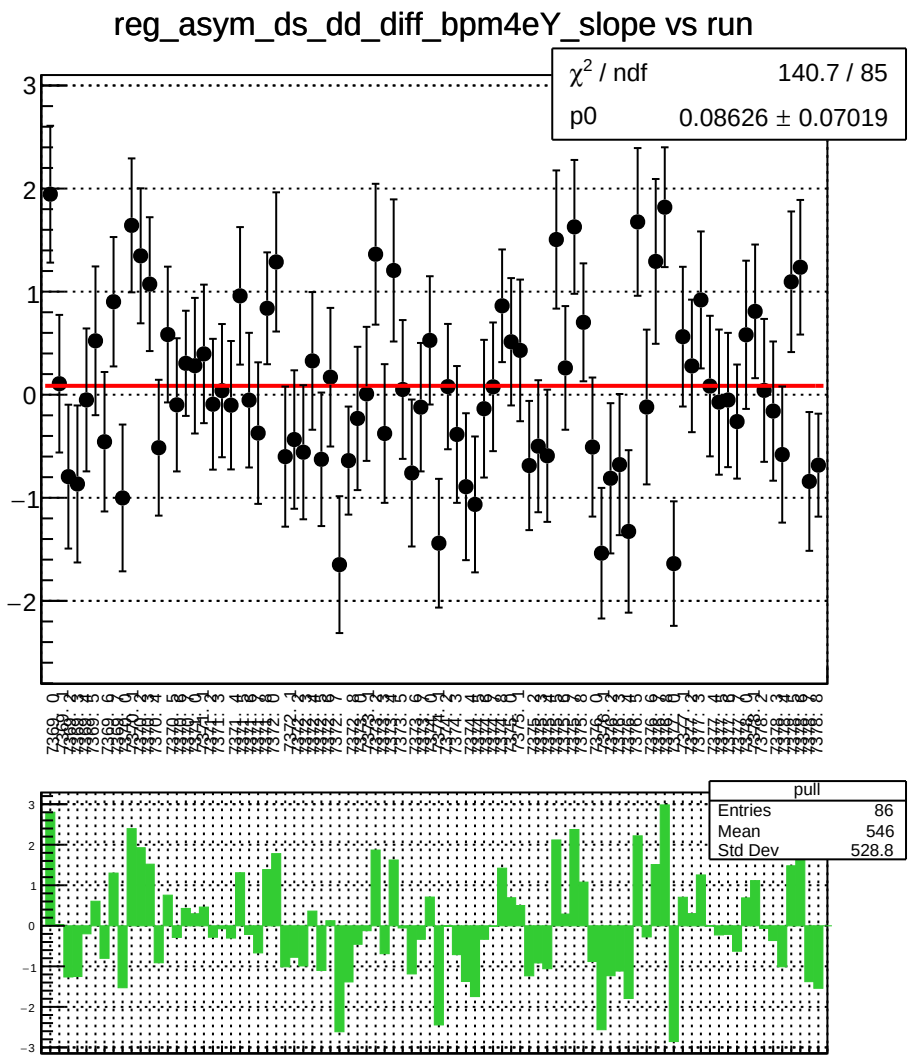

pull1D
Entries 86
Mean −0.0001045
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

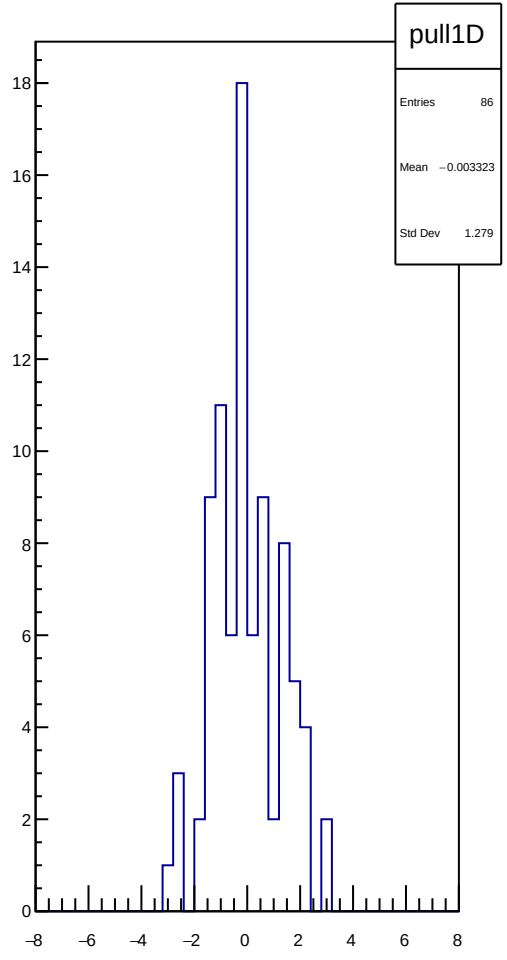

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 177.3 / 85
p0 −0.1604 ± 0.0592
pull
Entries 86
Mean 87.89
Std Dev 61.33
pull1D
Entries 86
Mean 0.0436
Std Dev 1.435

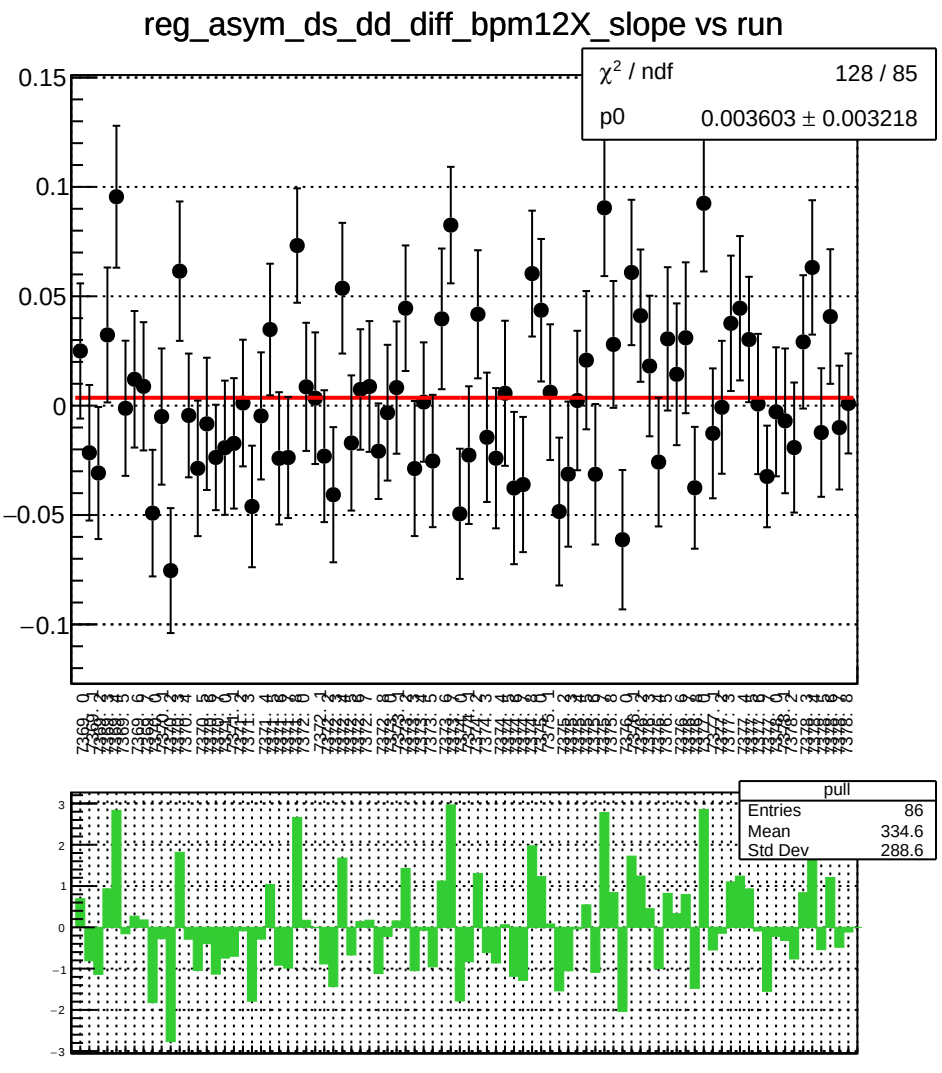

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 131.2 / 85
p0 −0.043 ± 0.06575
pull
Entries 86
Mean −28.13
Std Dev 235.8

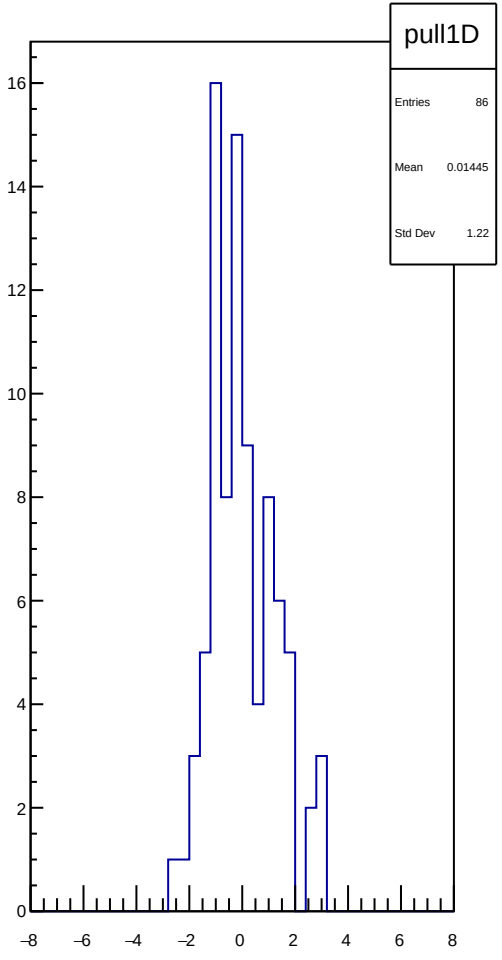

pull1D
Entries 86
Mean 0.00186
Std Dev 1.235

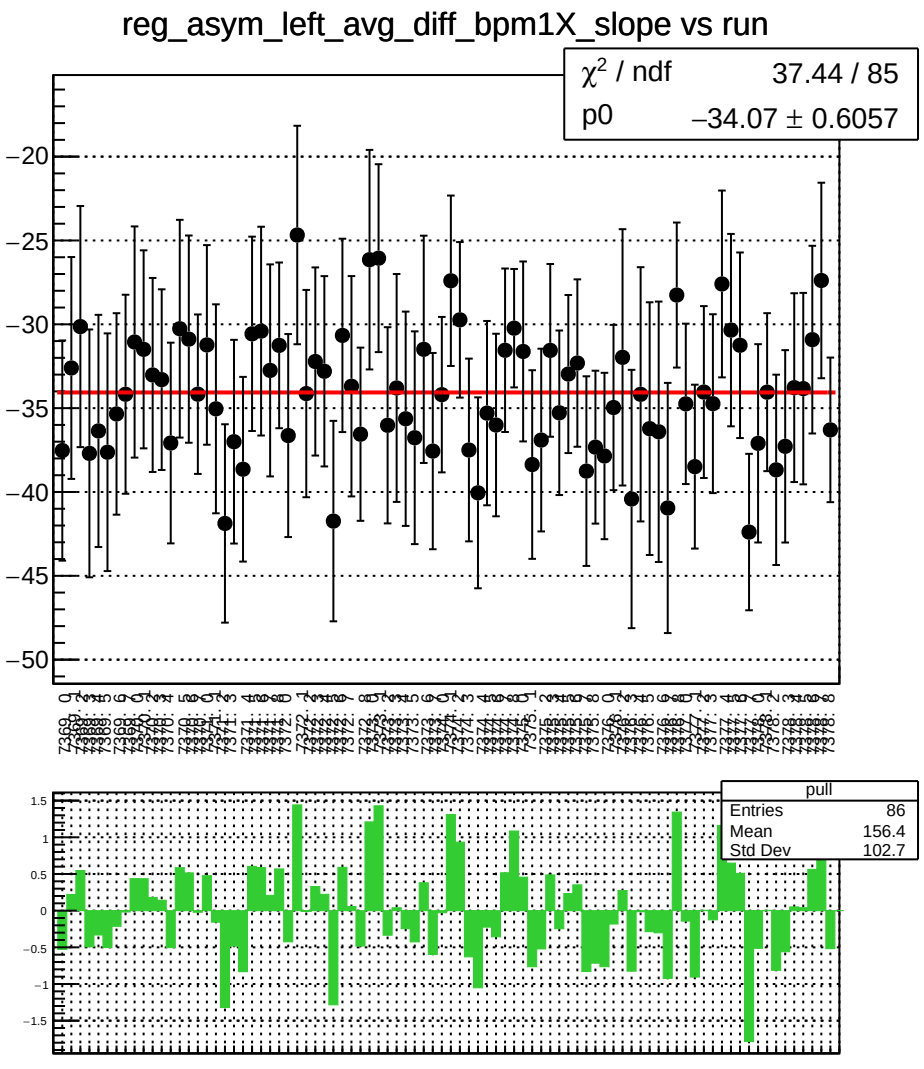

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 149.1 / 85
p0 0.1593 ± 0.06155
pull
Entries 86
Mean 123.4
Std Dev 95.82
pull1D
Entries 86
Mean −0.03468
Std Dev 1.316

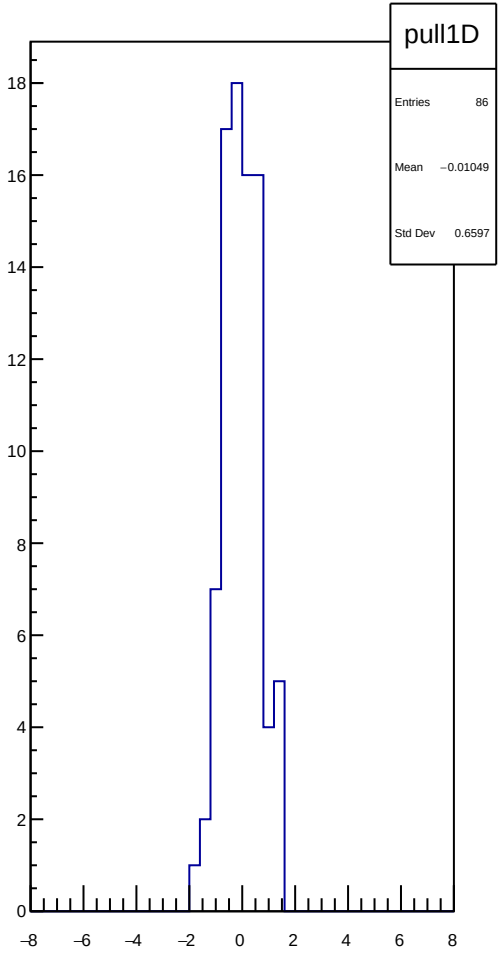

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 140.7 / 85
p0 0.08626 ± 0.07019
pull
Entries 86
Mean 546
Std Dev 528.8

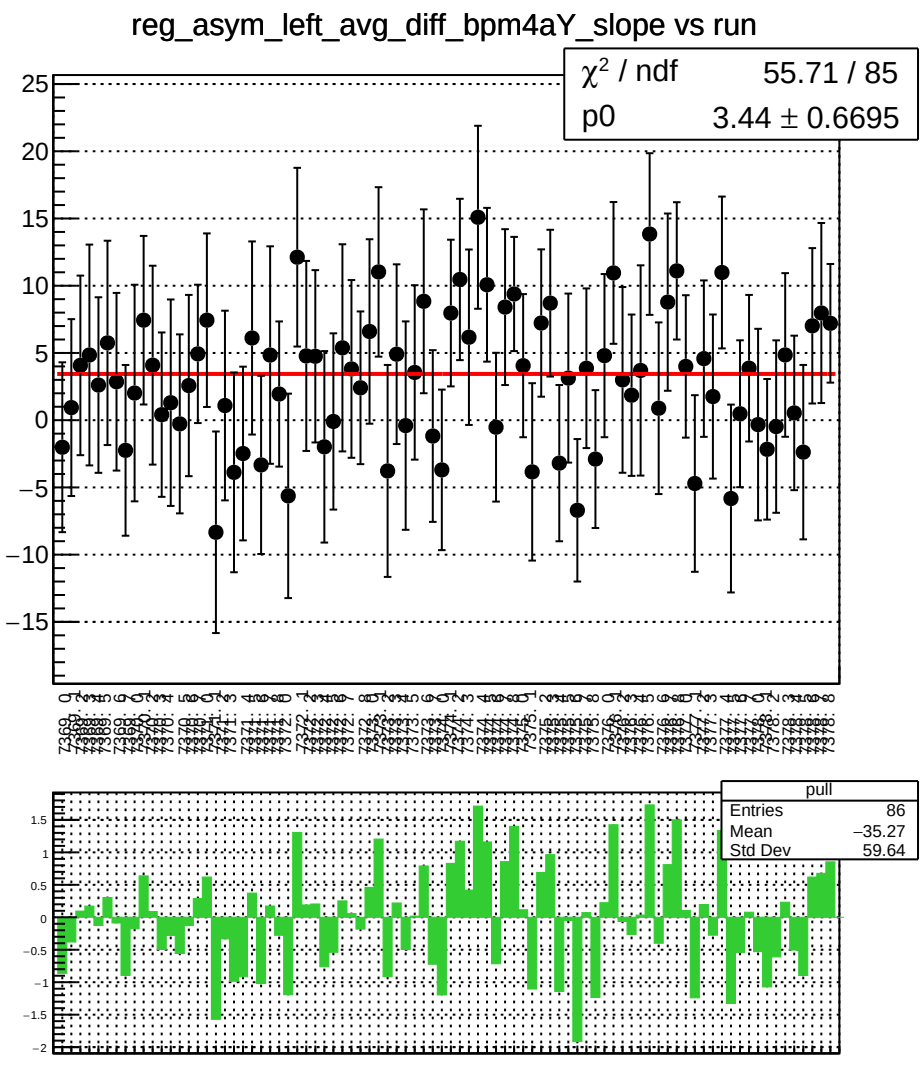

pull1D
Entries 86
Mean −0.003323
Std Dev 1.279

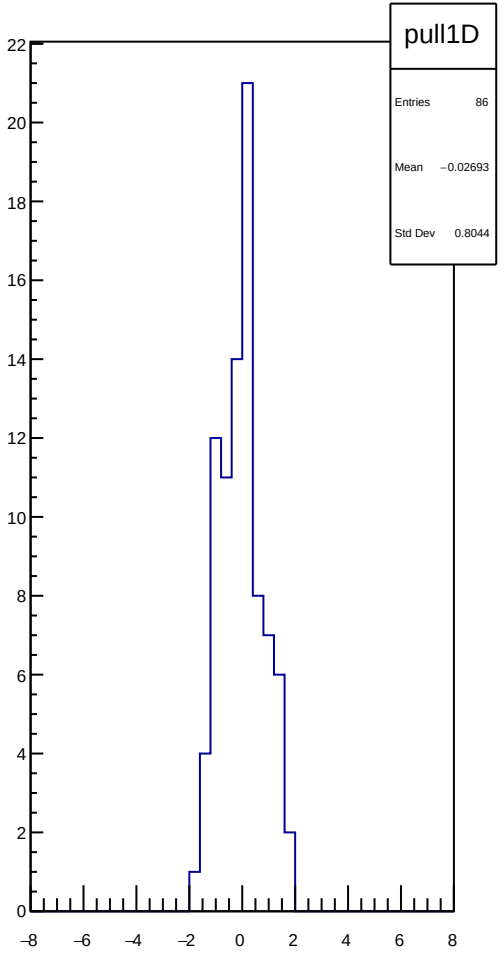

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 128 / 85
p0 0.003603 ± 0.003218
pull
Entries 86
Mean 334.6
Std Dev 288.6

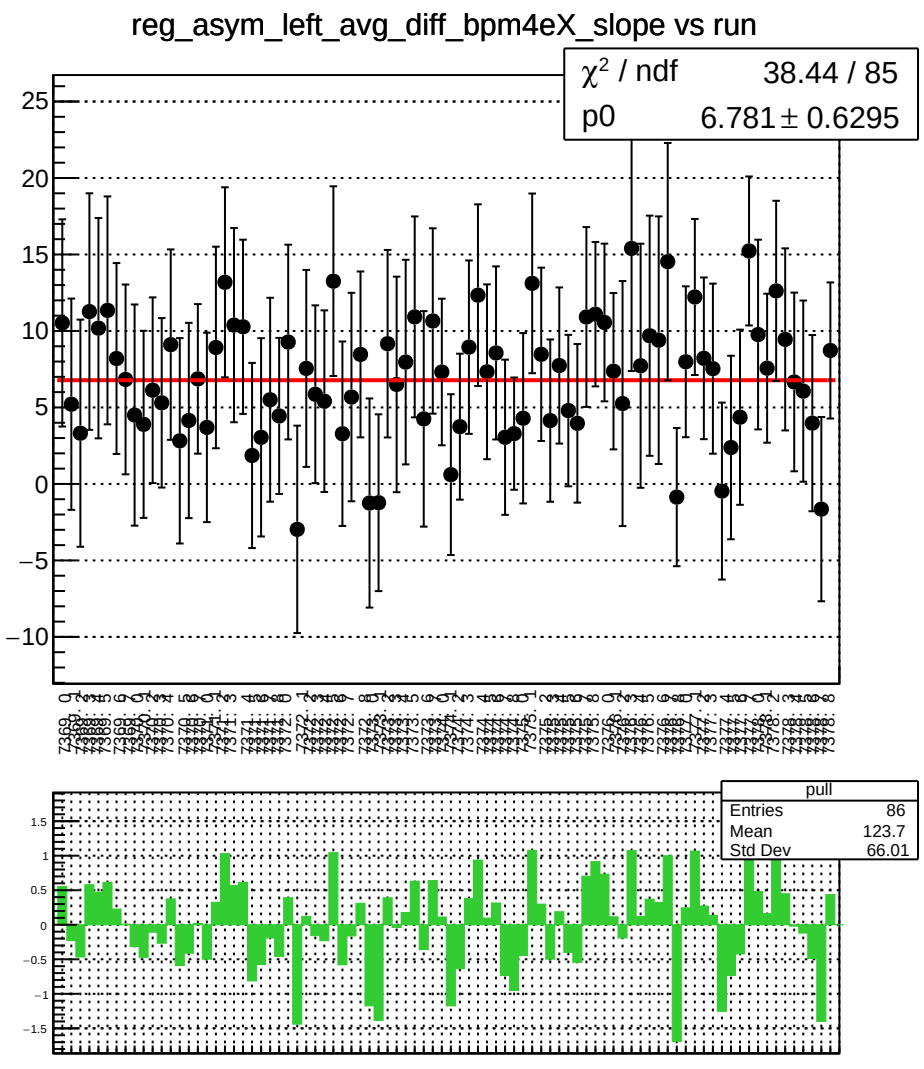

pull1D
Entries 86
Mean 0.01445
Std Dev 1.22

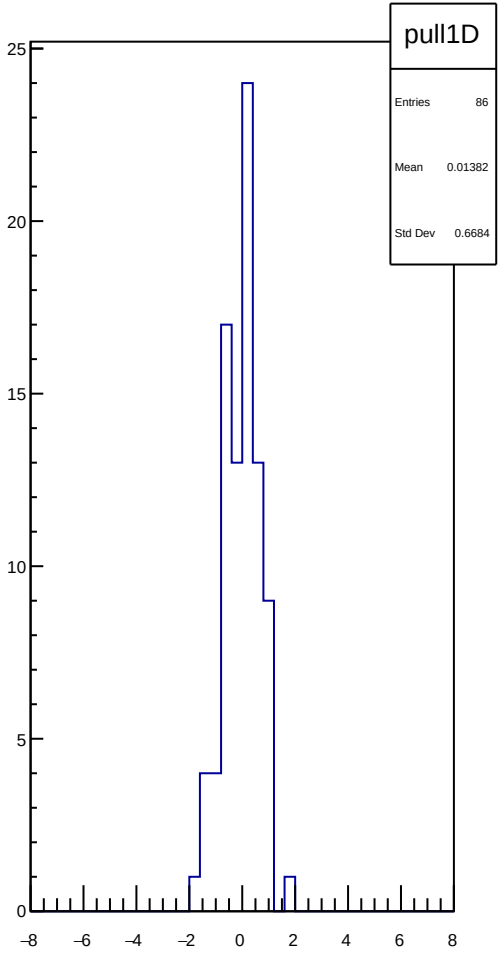

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 37.44 / 85
p0 −34.07 ± 0.6057
pull
Entries 86
Mean 156.4
Std Dev 102.7

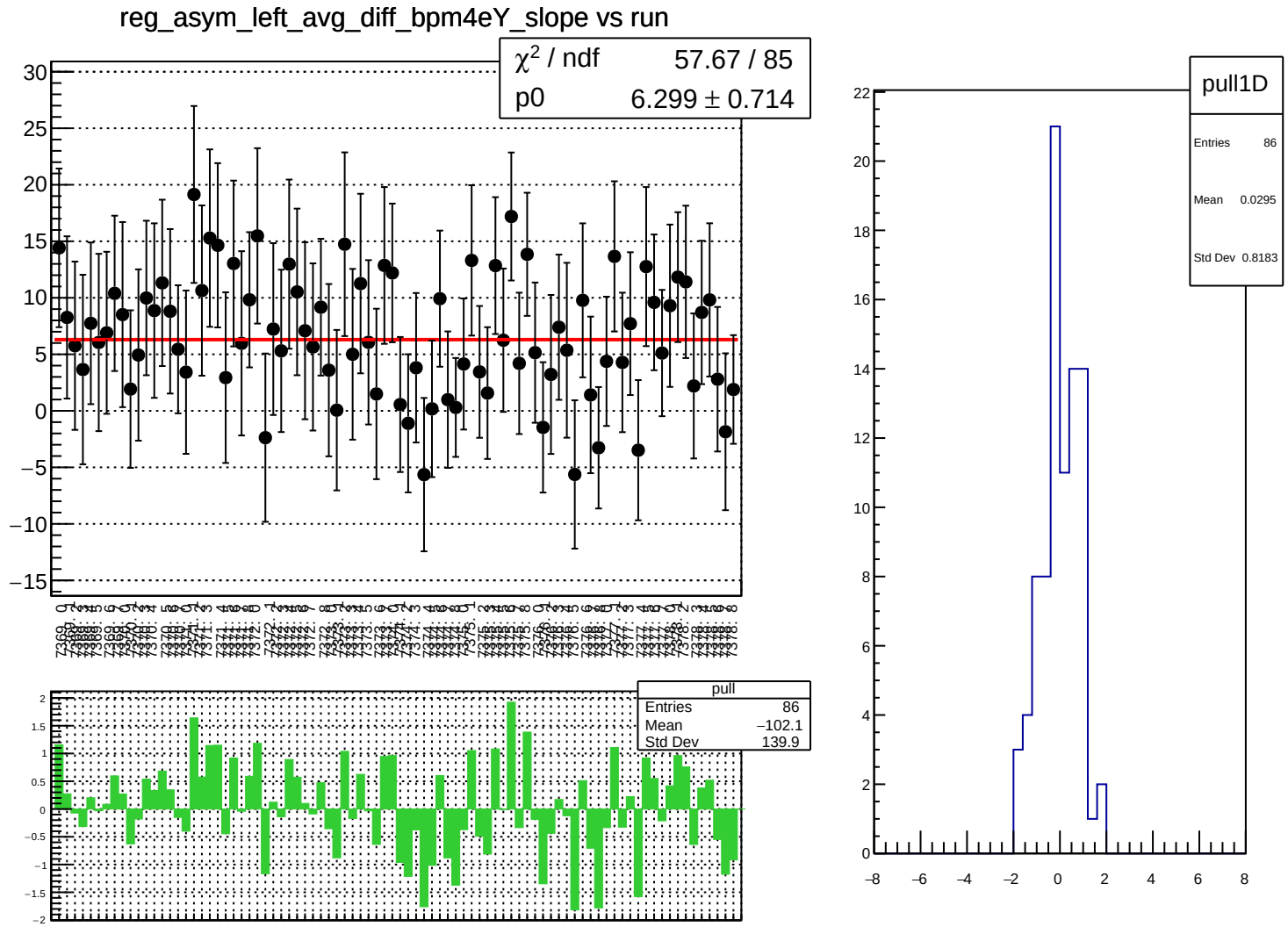

pull1D
Entries 86
Mean −0.01049
Std Dev 0.6597

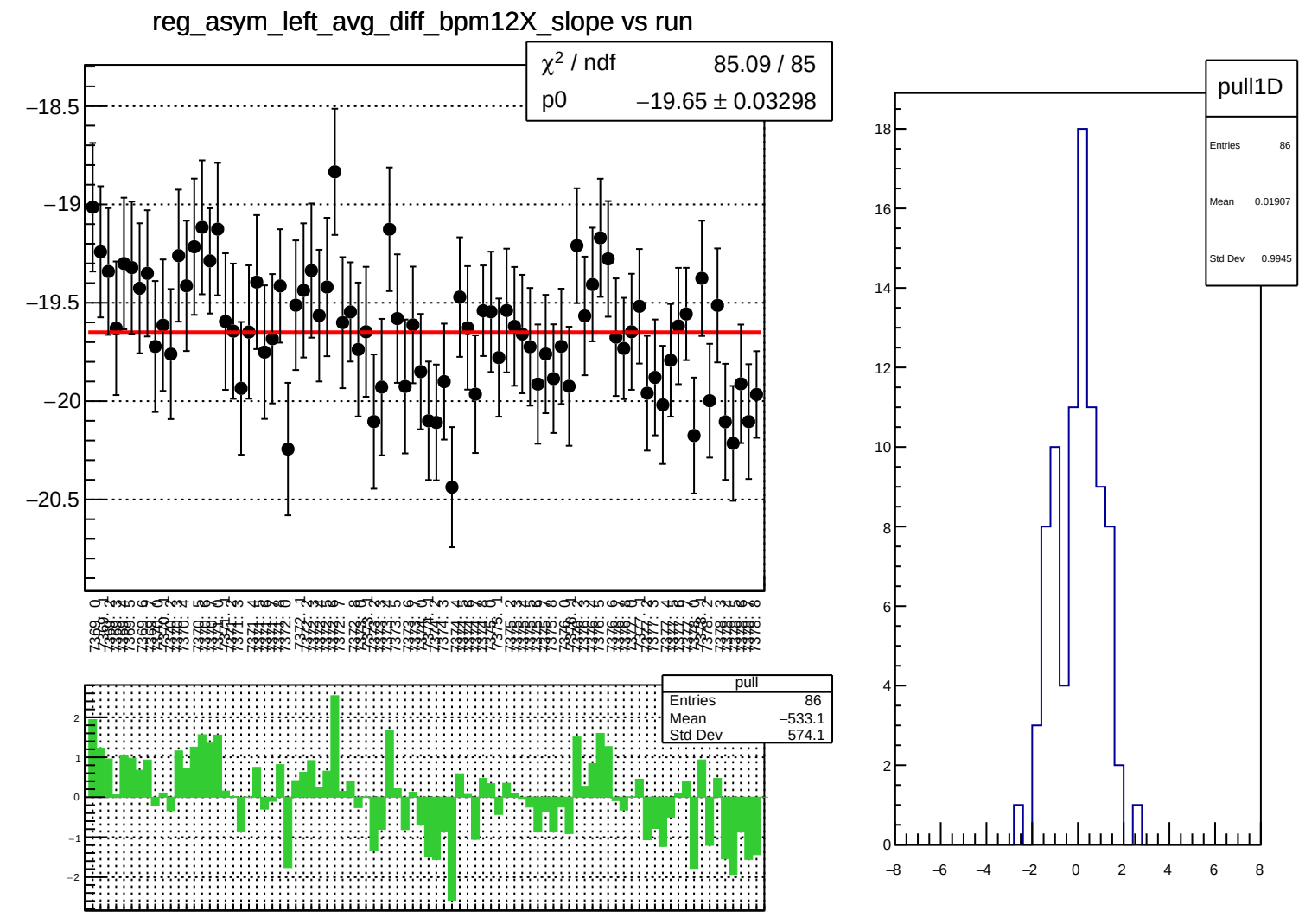

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 55.71 / 85
p0 3.44 ± 0.6695
pull
Entries 86
Mean −35.27
Std Dev 59.64

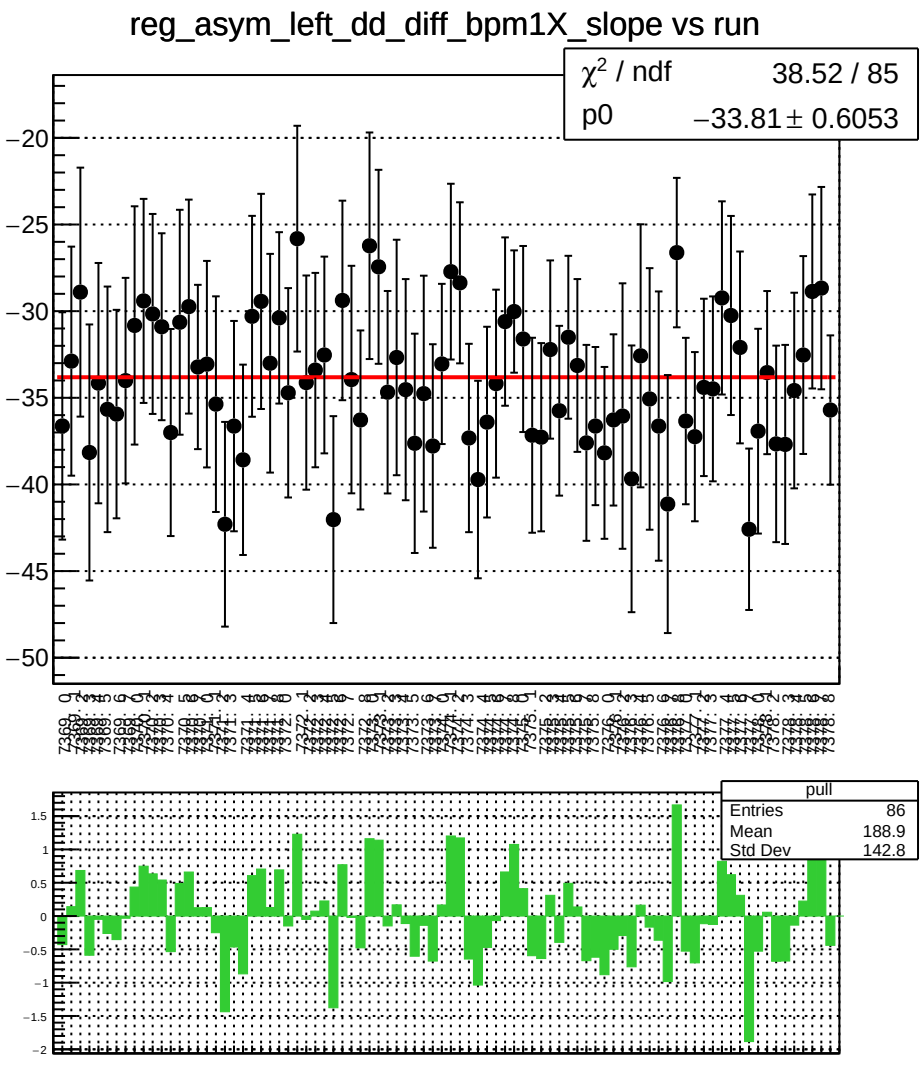

pull1D
Entries 86
Mean −0.02693
Std Dev 0.8044

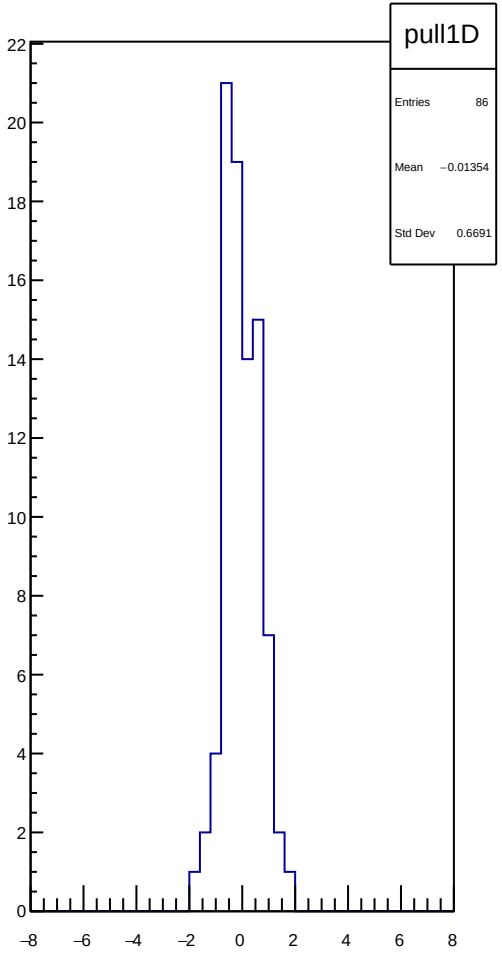

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.44 / 85
p0 6.781 ± 0.6295
pull
Entries 86
Mean 123.7
Std Dev 66.01

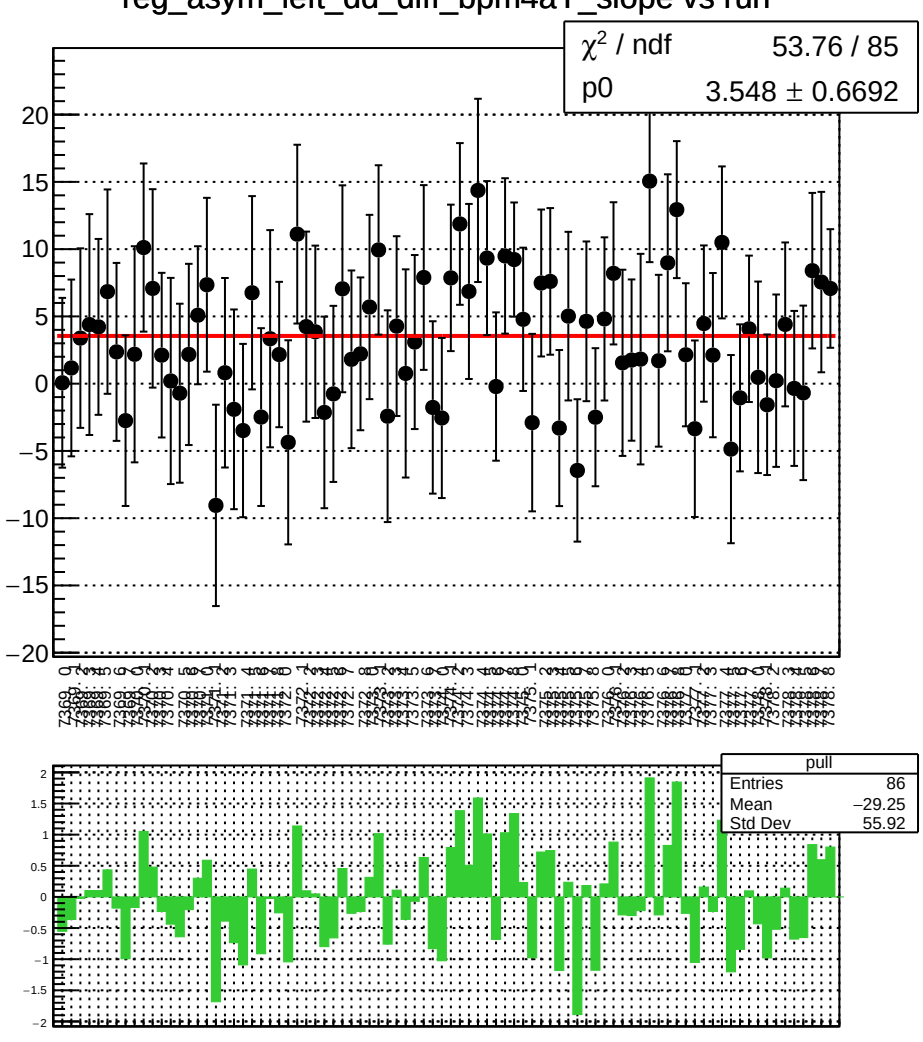

pull1D
Entries 86
Mean 0.01382
Std Dev 0.6684

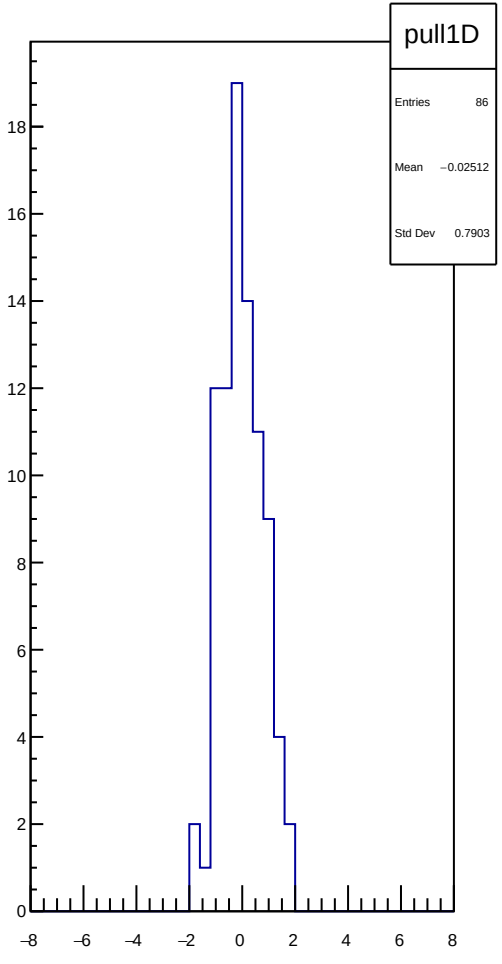

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 57.67 / 85
p0 6.299 ± 0.714
pull
Entries 86
Mean −102.1
Std Dev 139.9
pull1D
Entries 86
Mean 0.0295
Std Dev 0.8183

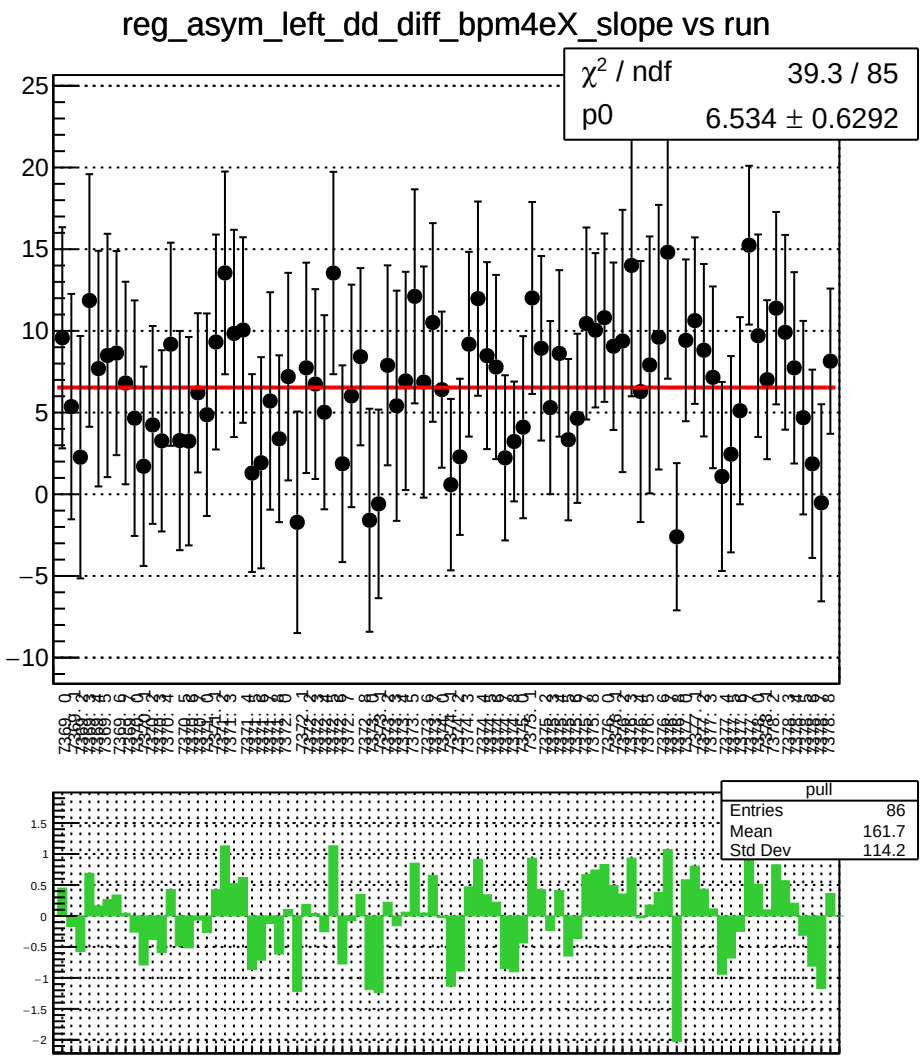

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 85.09 / 85
p0 −19.65 ± 0.03298
−18.5
−19
−19.5
−20
−20.5
pull
Entries 86
Mean −533.1
Std Dev 574.1
pull1D
Entries 86
Mean 0.01907
Std Dev 0.9945

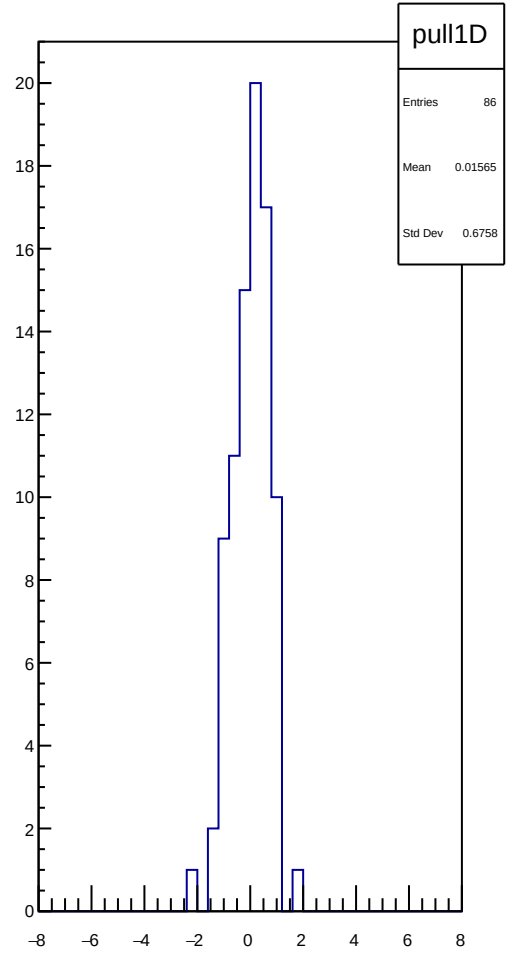

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 38.52 / 85
p0 −33.81 ± 0.6053
pull
Entries 86
Mean 188.9
Std Dev 142.8

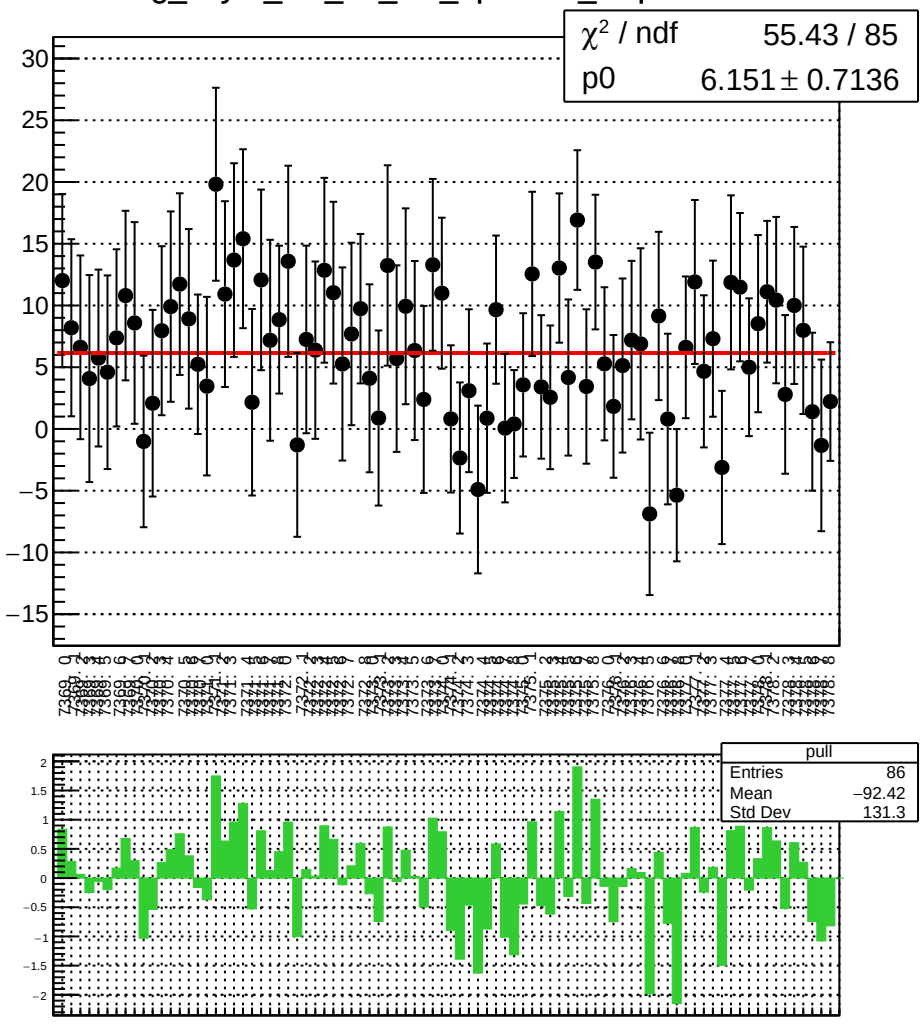

pull1D
Entries 86
Mean −0.01354
Std Dev 0.6691

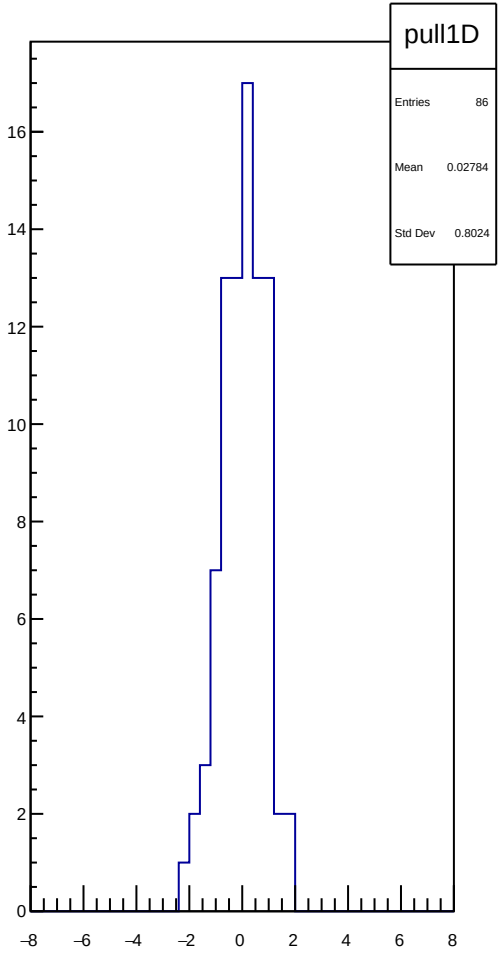

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.76 / 85
p0 3.548 ± 0.6692
pull
Entries 86
Mean −29.25
Std Dev 55.92

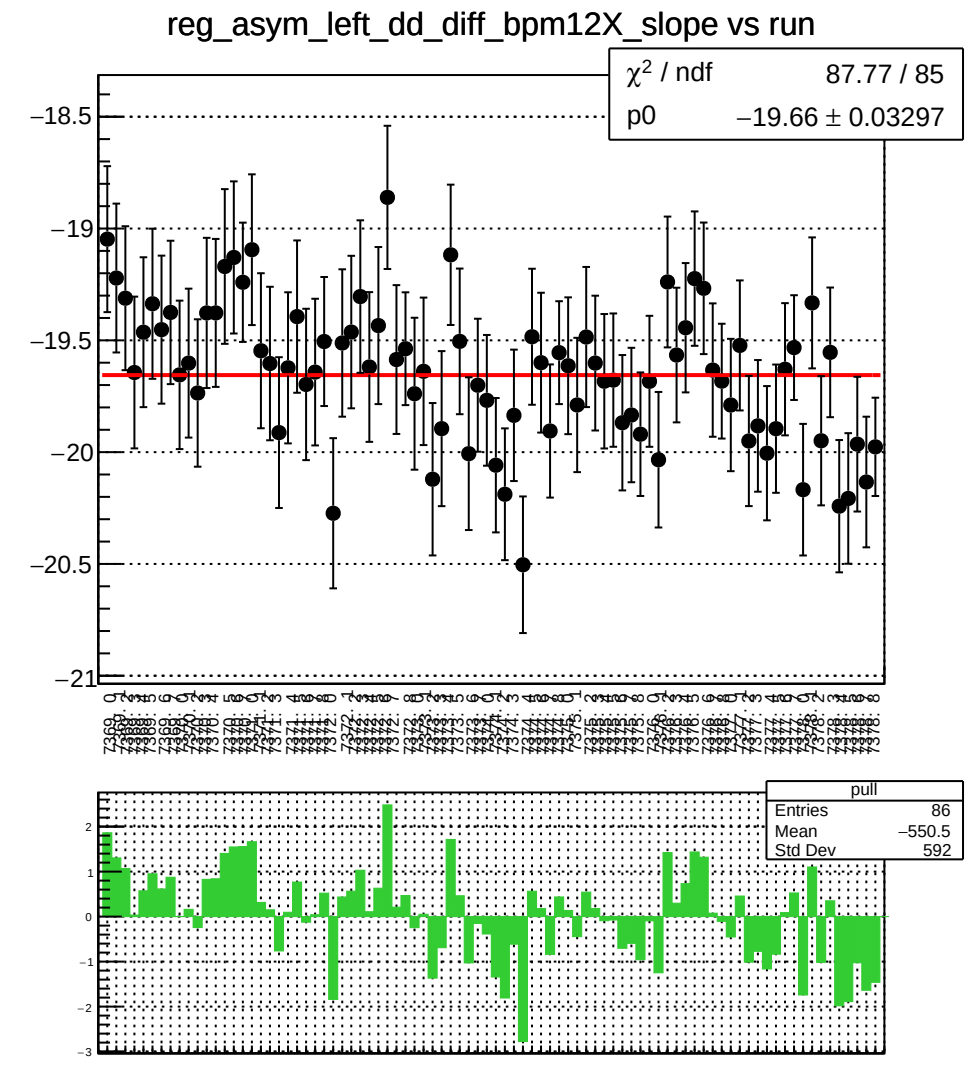

pull1D
Entries 86
Mean −0.02512
Std Dev 0.7903

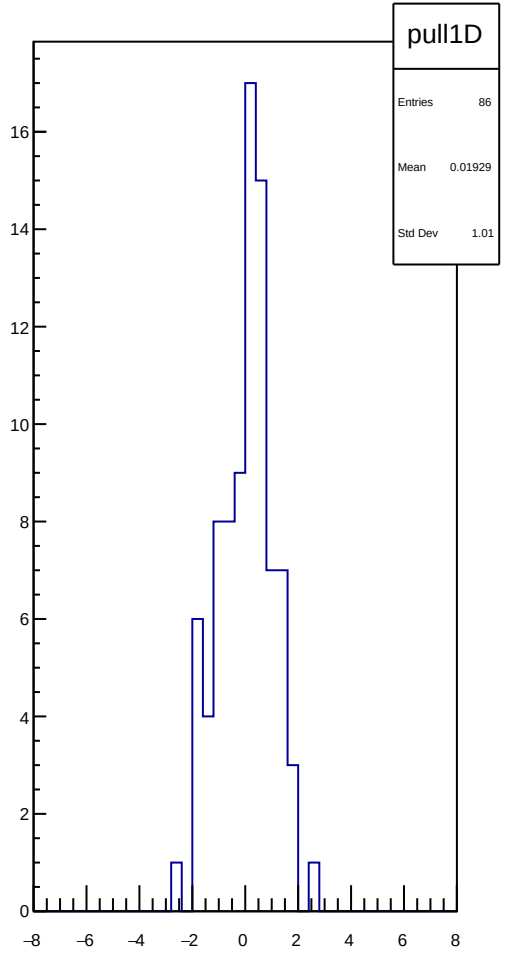

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.3 / 85
p0 6.534 ± 0.6292
pull
Entries 86
Mean 161.7
Std Dev 114.2

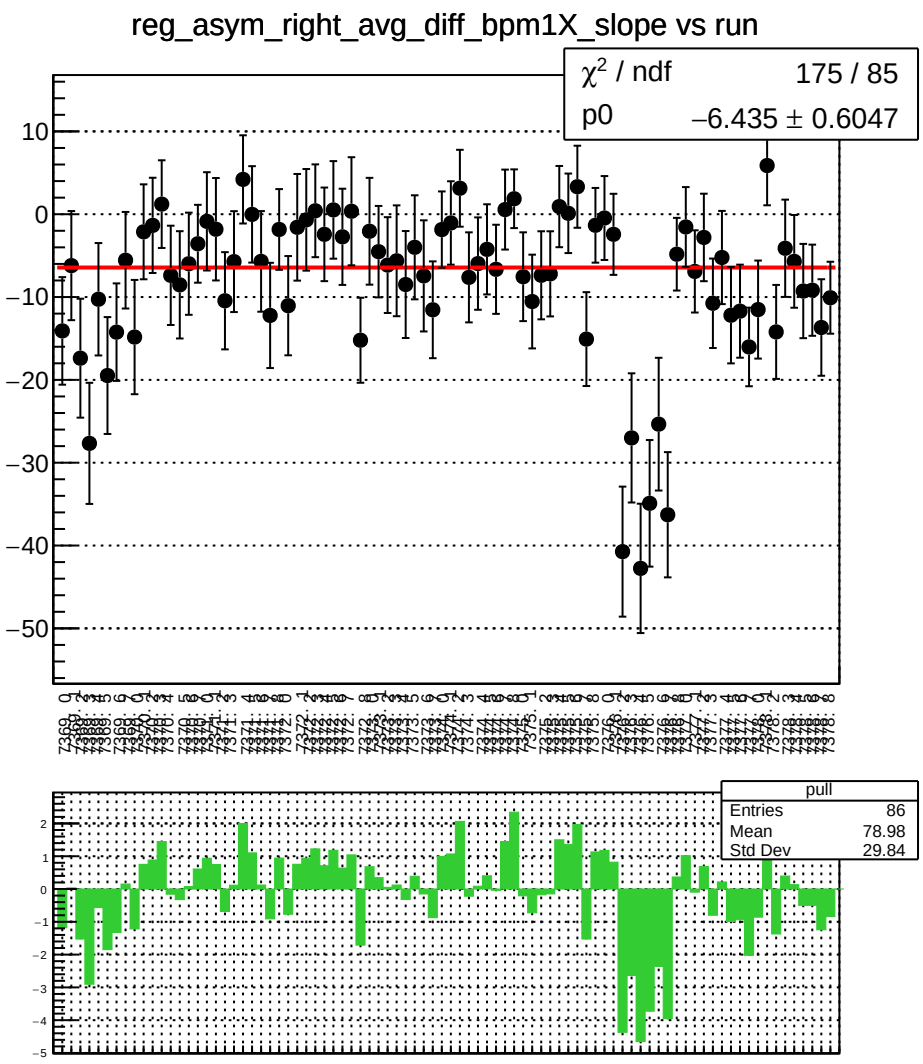

pull1D
Entries 86
Mean 0.01565
Std Dev 0.6758

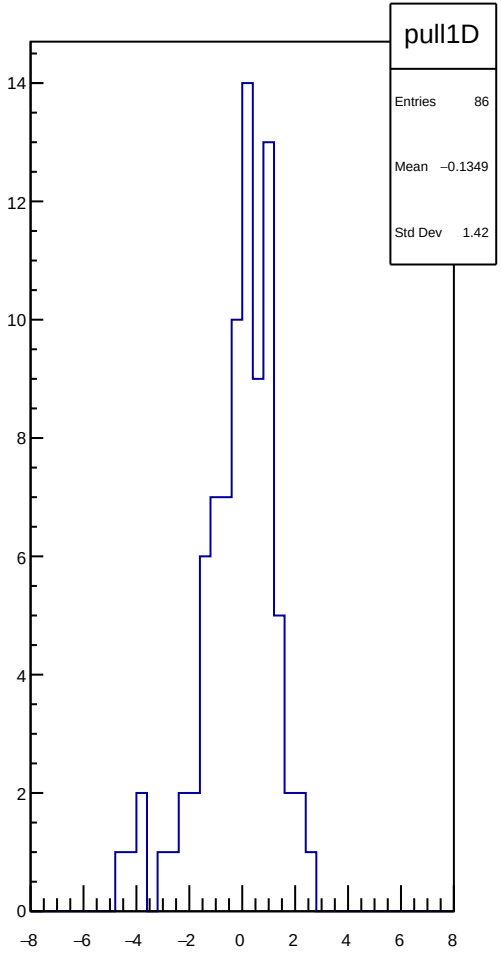

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.43 / 85
p0 6.151 ± 0.7136
pull
Entries 86
Mean −92.42
Std Dev 131.3

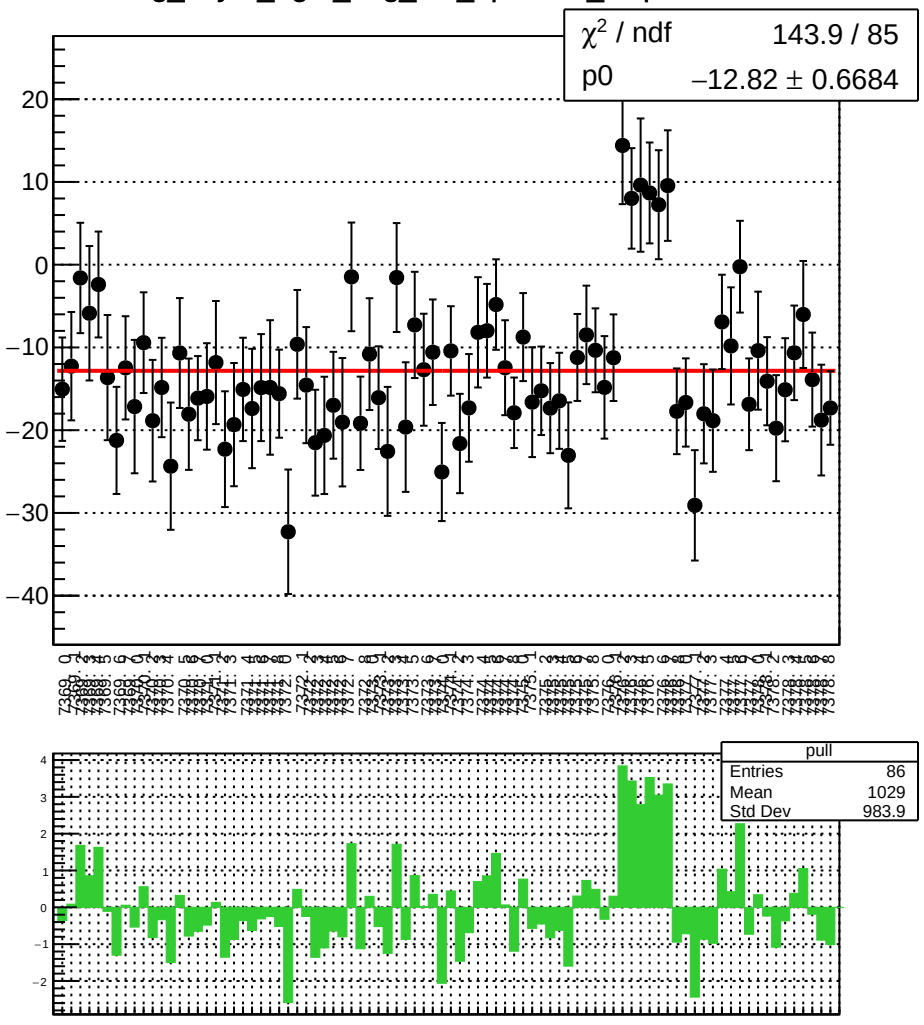

pull1D
Entries 86
Mean 0.02784
Std Dev 0.8024

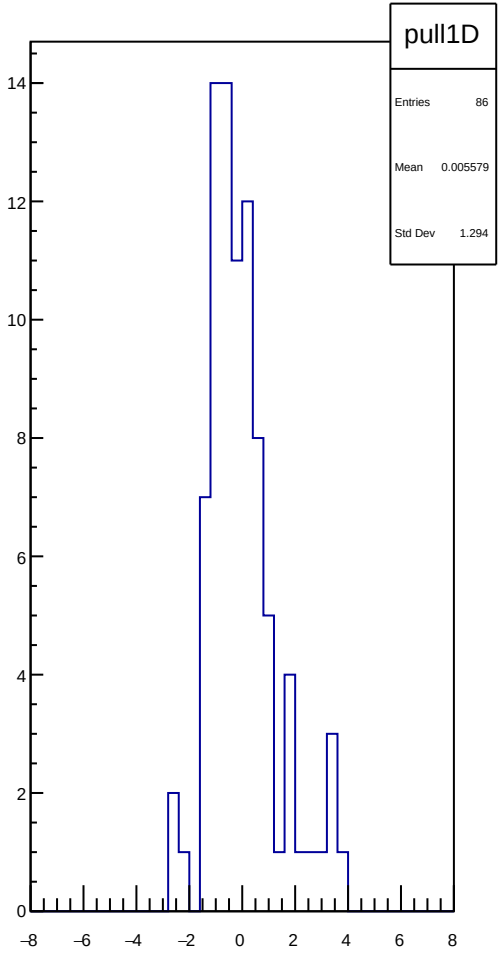

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 87.77 / 85
p0 −19.66 ± 0.03297
−18.5
−19
−19.5
−20
−20.5
−21
pull
Entries 86
Mean −550.5
Std Dev 592
2
1
0
−1
−2
−3

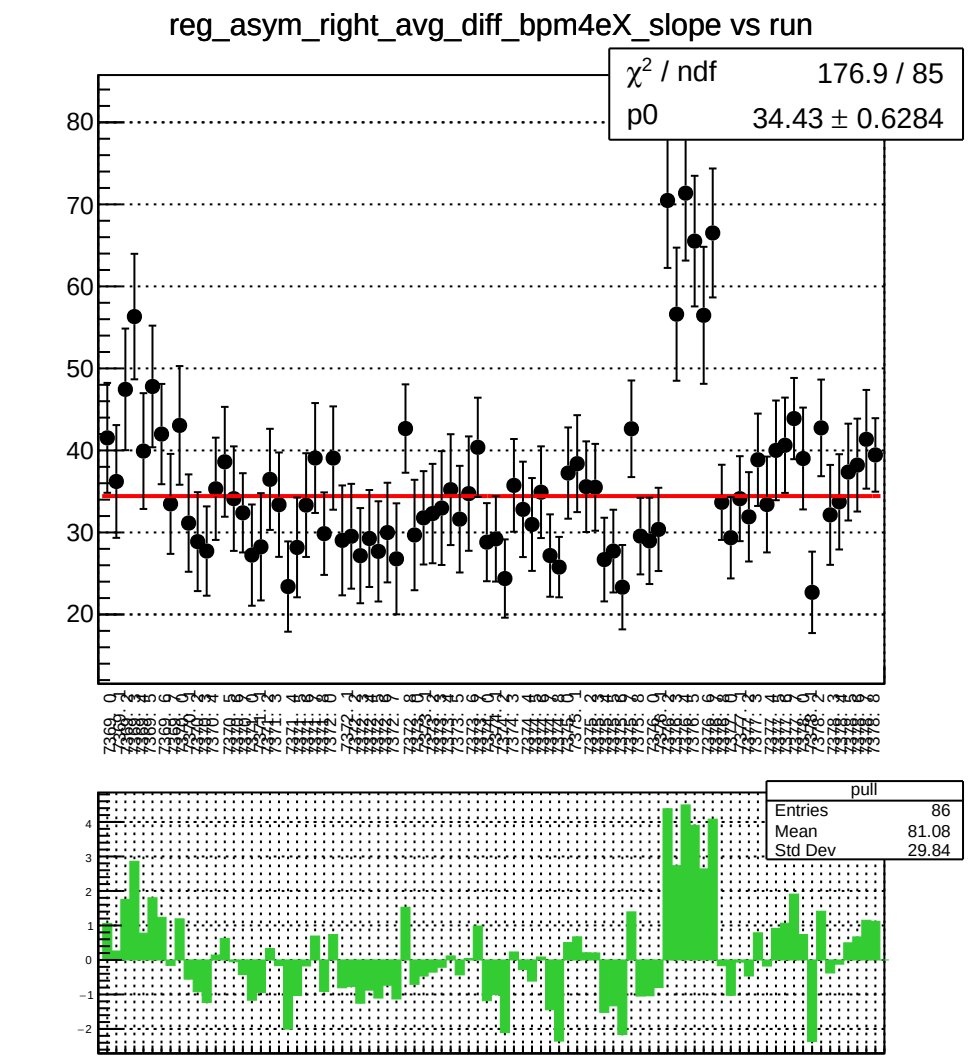

pull1D
Entries 86
Mean 0.01929
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

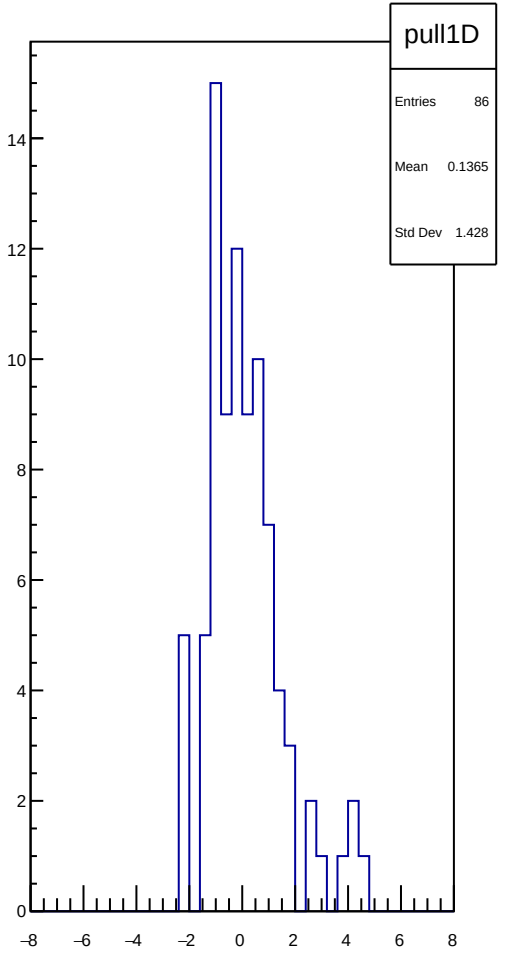

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 175 / 85
p0 −6.435 ± 0.6047
pull
Entries 86
Mean 78.98
Std Dev 29.84

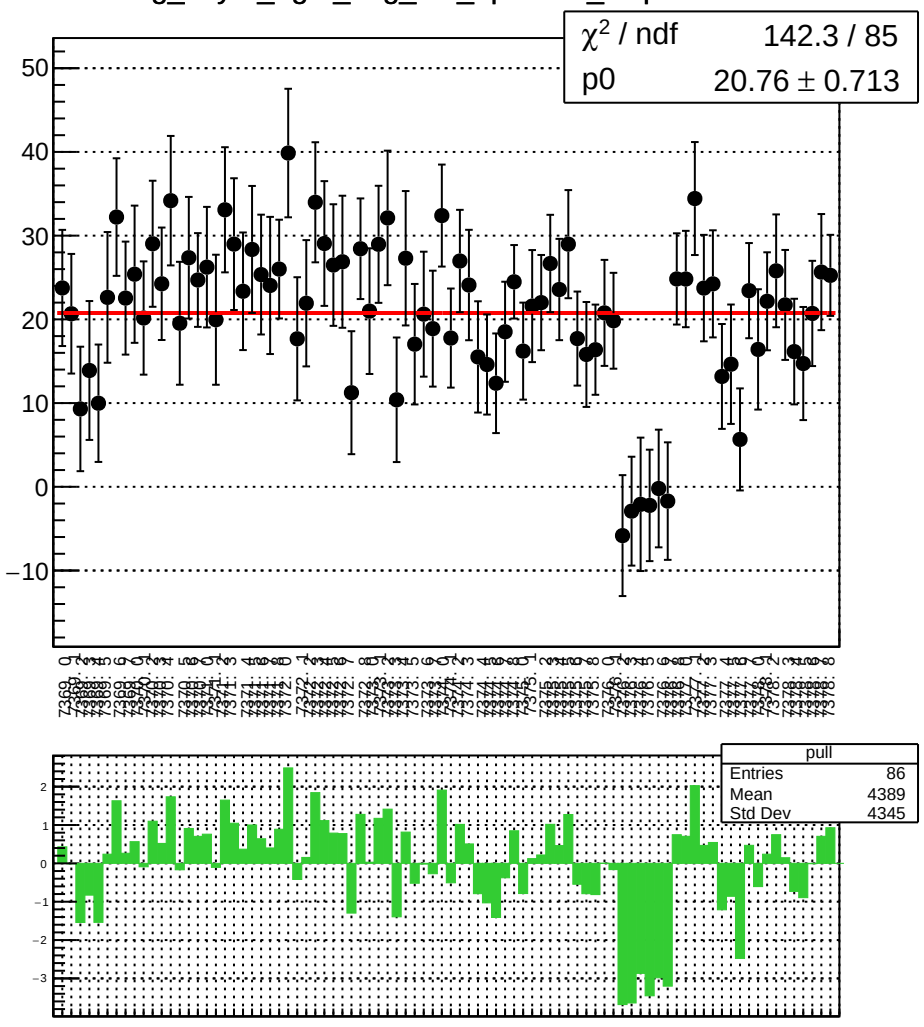

pull1D
Entries 86
Mean −0.1349
Std Dev 1.42

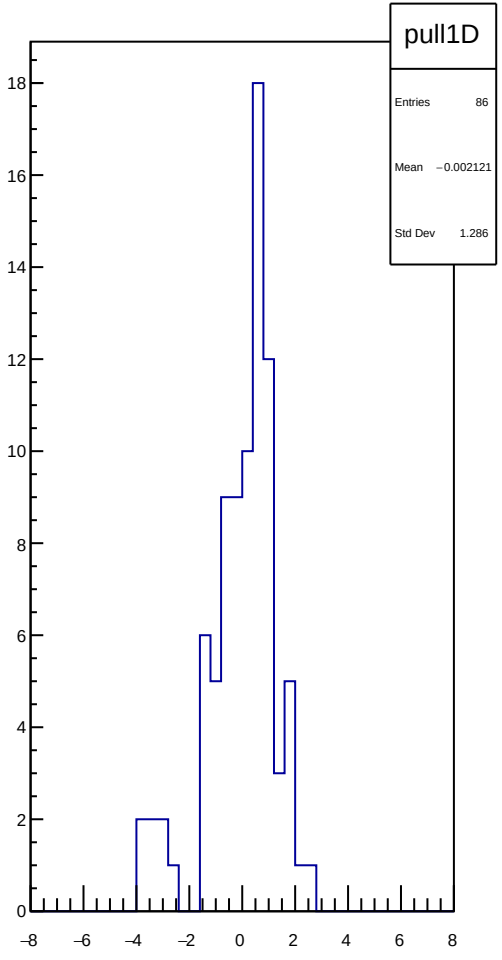

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 143.9 / 85
p0 −12.82 ± 0.6684
pull
Entries 86
Mean 1029
Std Dev 983.9

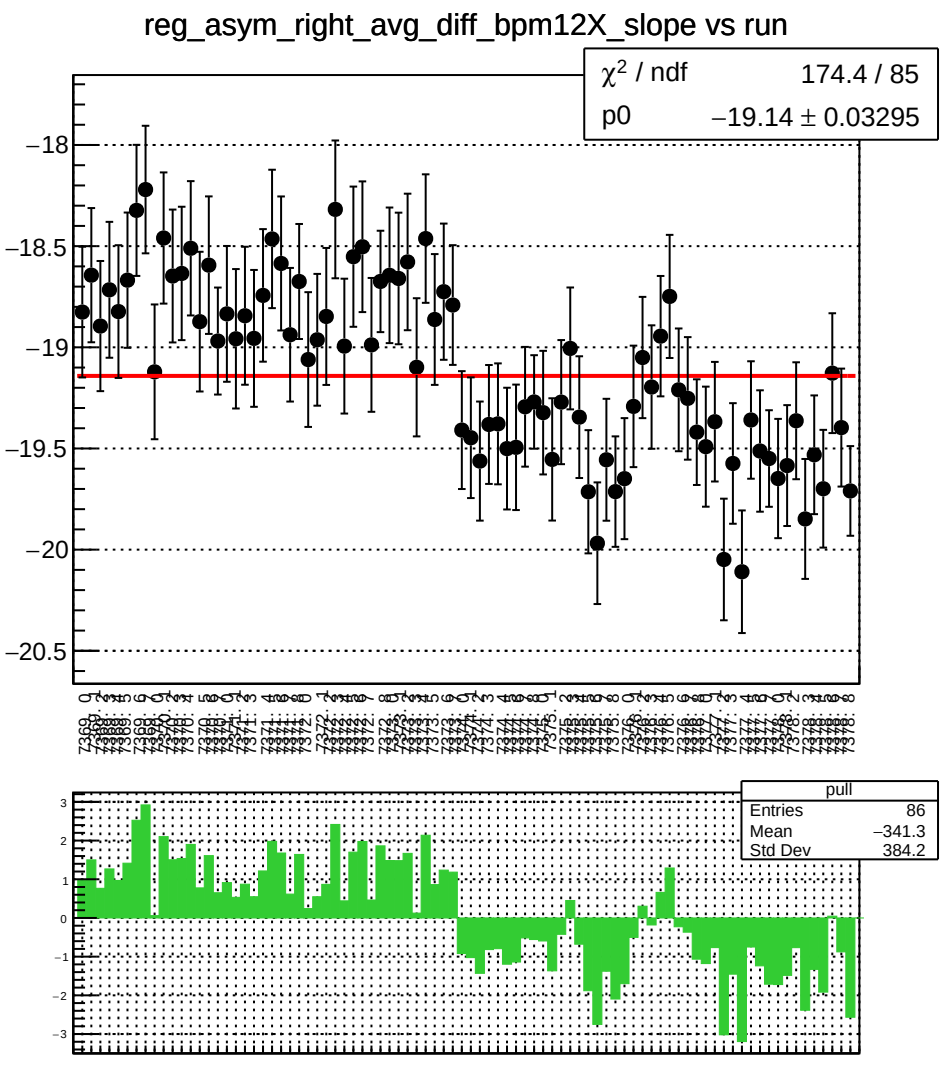

pull1D
Entries 86
Mean 0.005579
Std Dev 1.294

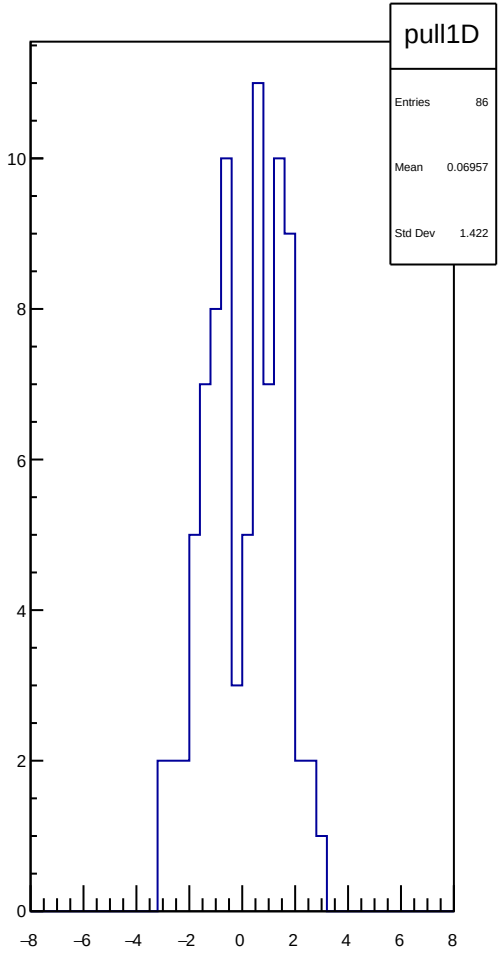

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 176.9 / 85
p0 34.43 ± 0.6284
pull
Entries 86
Mean 81.08
Std Dev 29.84

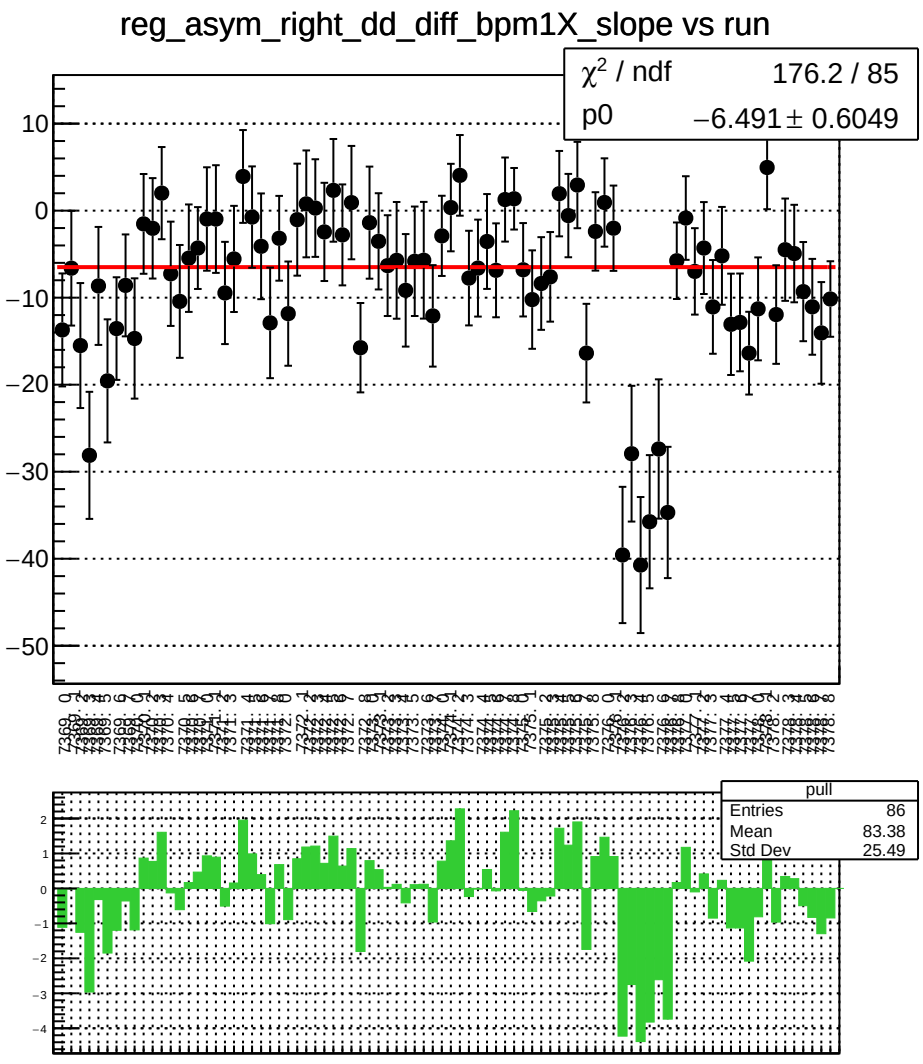

pull1D
Entries 86
Mean 0.1365
Std Dev 1.428

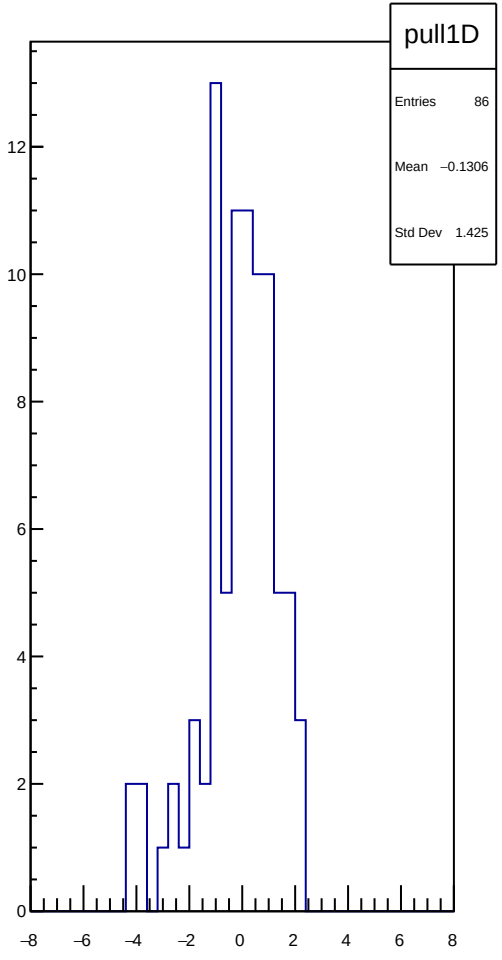

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 142.3 / 85
p0 20.76 ± 0.713
pull
Entries 86
Mean 4389
Std Dev 4345

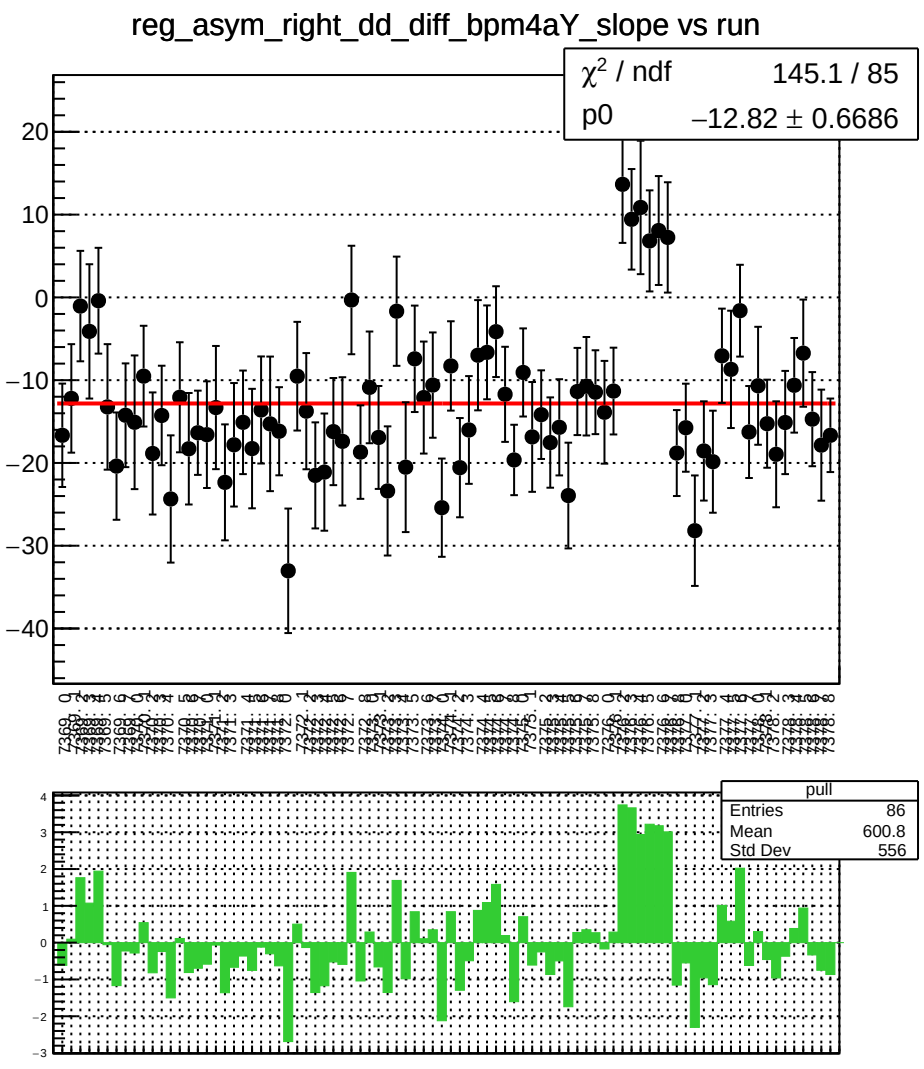

pull1D
Entries 86
Mean −0.002121
Std Dev 1.286

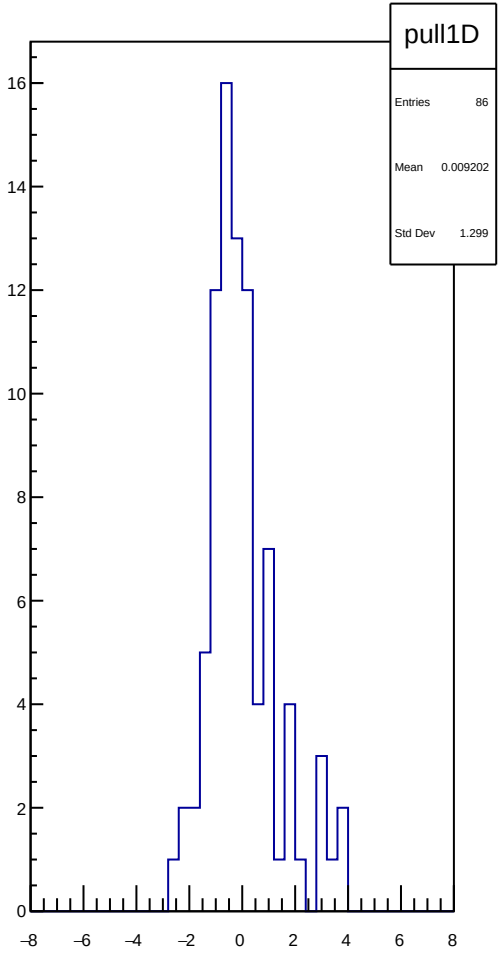

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 174.4 / 85
p0 −19.14 ± 0.03295
−18
−18.5
−19
−19.5
−20
−20.5
pull
Entries 86
Mean −341.3
Std Dev 384.2
3
2
1
0
−1
−2
−3

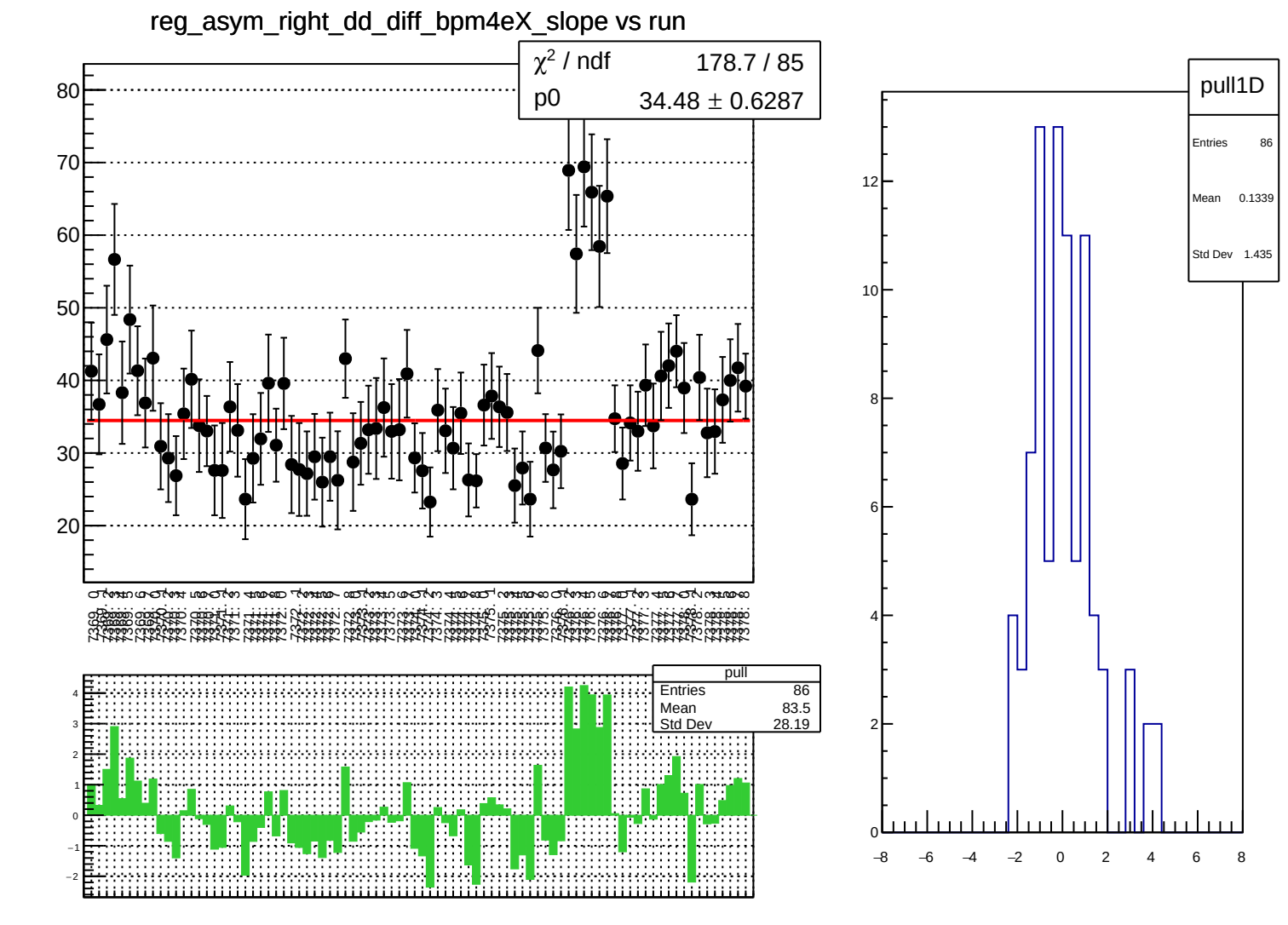

pull1D
Entries 86
Mean 0.06957
Std Dev 1.422
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

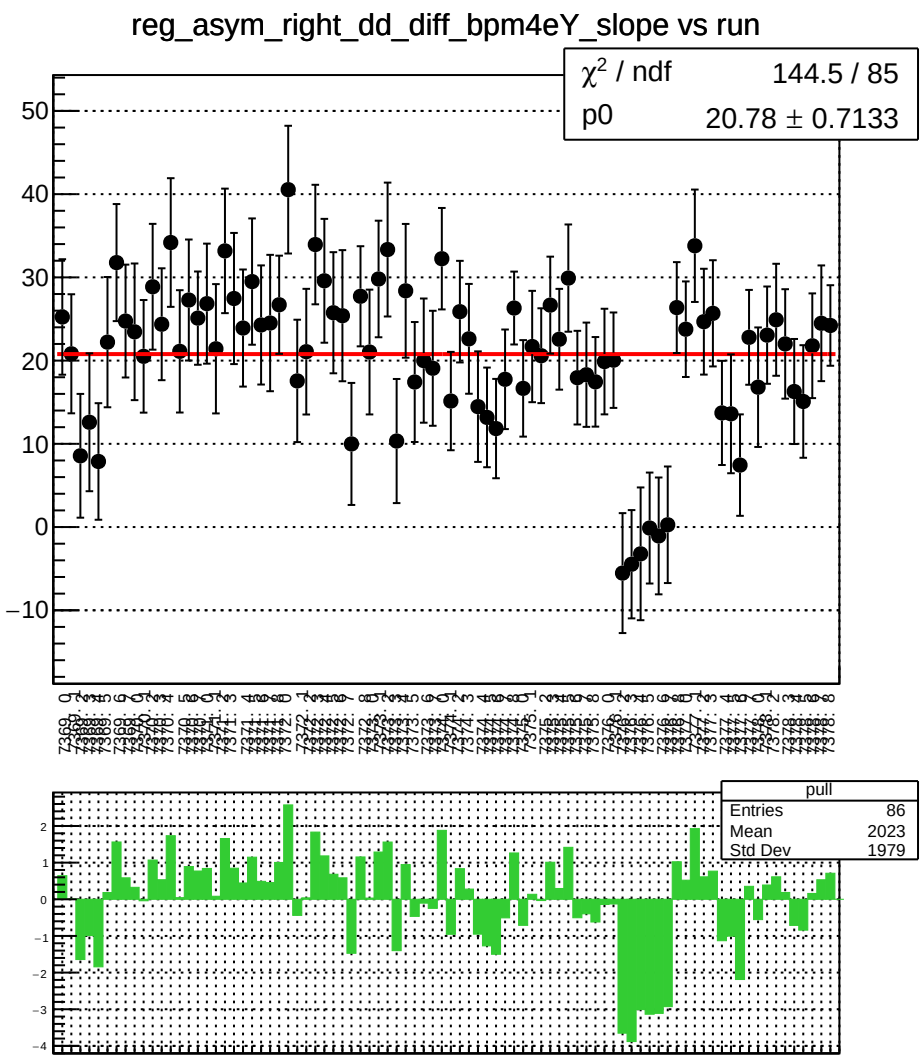

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 176.2 / 85
p0 −6.491 ± 0.6049
pull
Entries 86
Mean 83.38
Std Dev 25.49

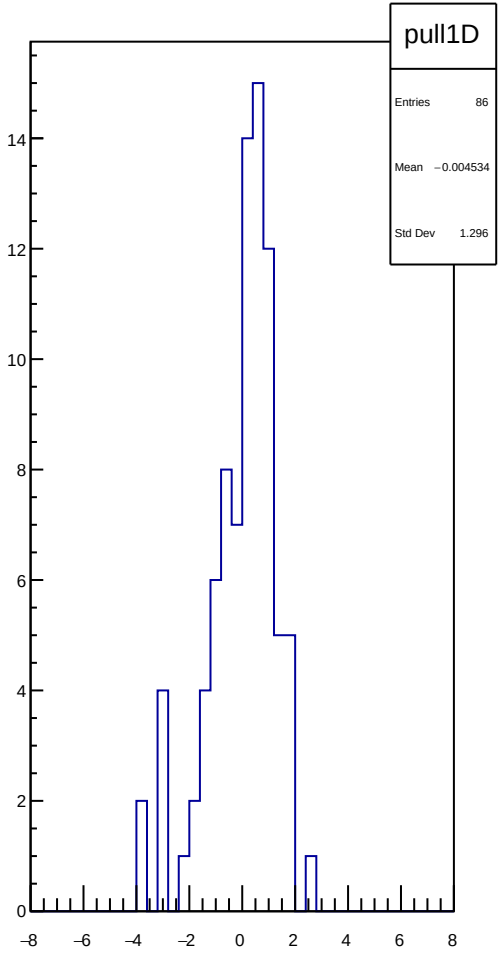

pull1D
Entries 86
Mean −0.1306
Std Dev 1.425

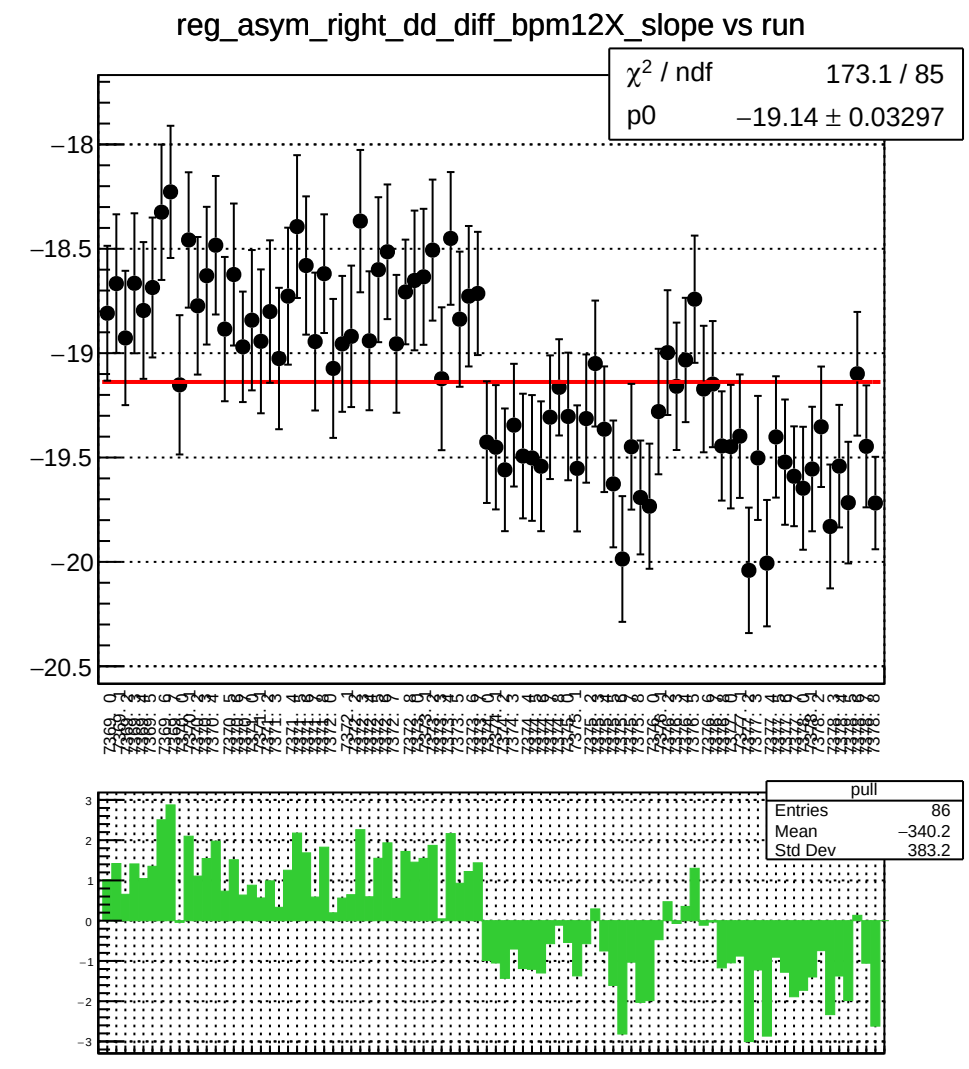

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 145.1 / 85
p0 −12.82 ± 0.6686
pull
Entries 86
Mean 600.8
Std Dev 556

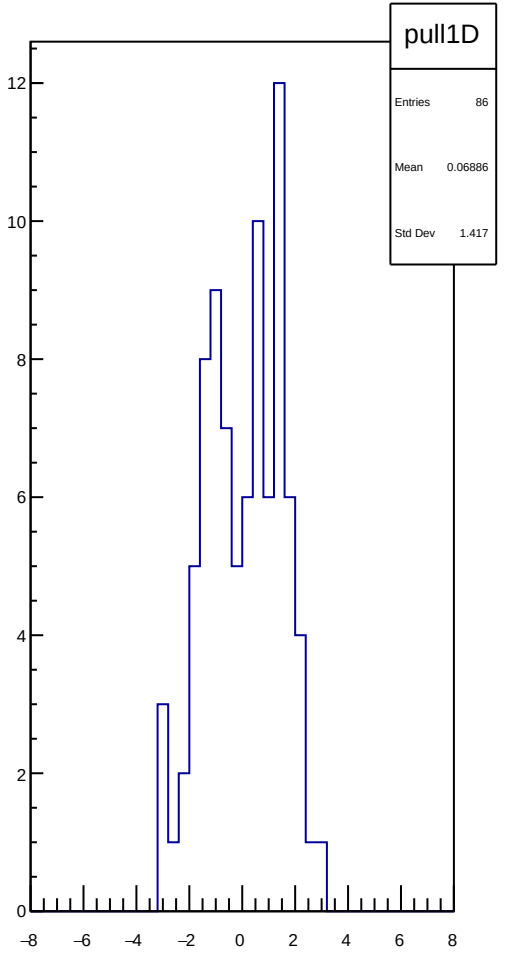

pull1D
Entries 86
Mean 0.009202
Std Dev 1.299

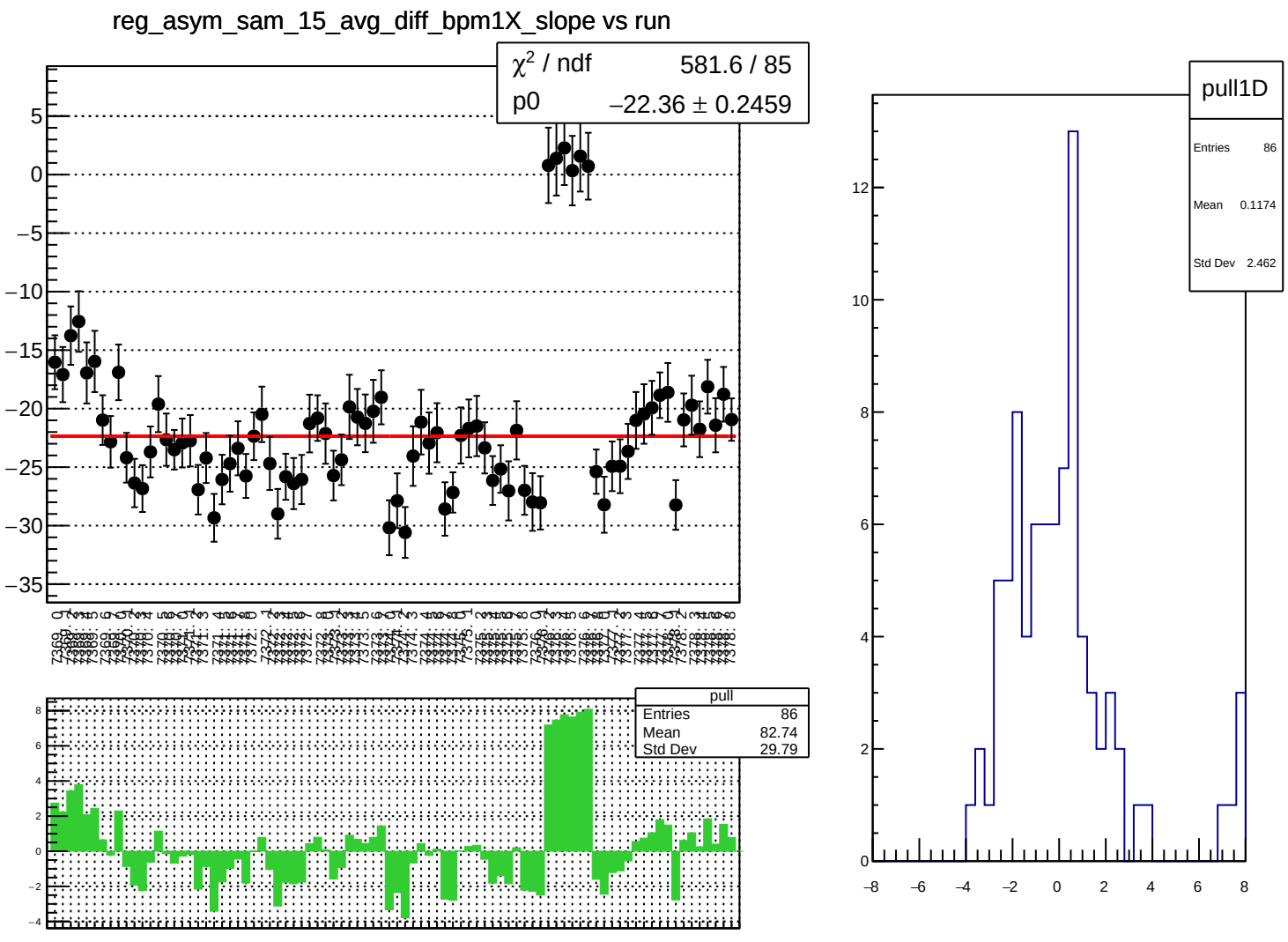

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 178.7 / 85
p0 34.48 ± 0.6287
pull
Entries 86
Mean 83.5
Std Dev 28.19
pull1D
Entries 86
Mean 0.1339
Std Dev 1.435

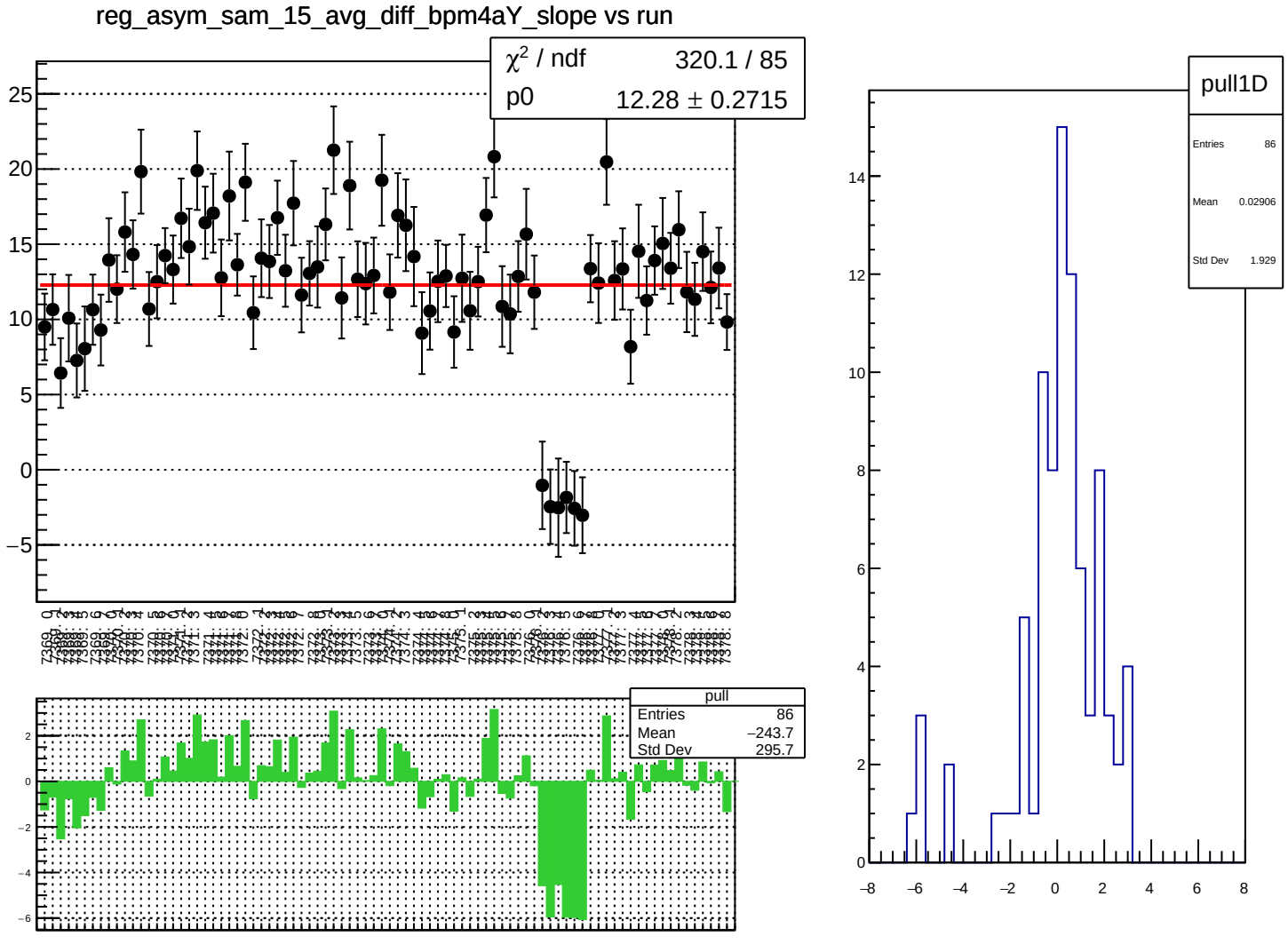

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 144.5 / 85
p0 20.78 ± 0.7133
pull
Entries 86
Mean 2023
Std Dev 1979

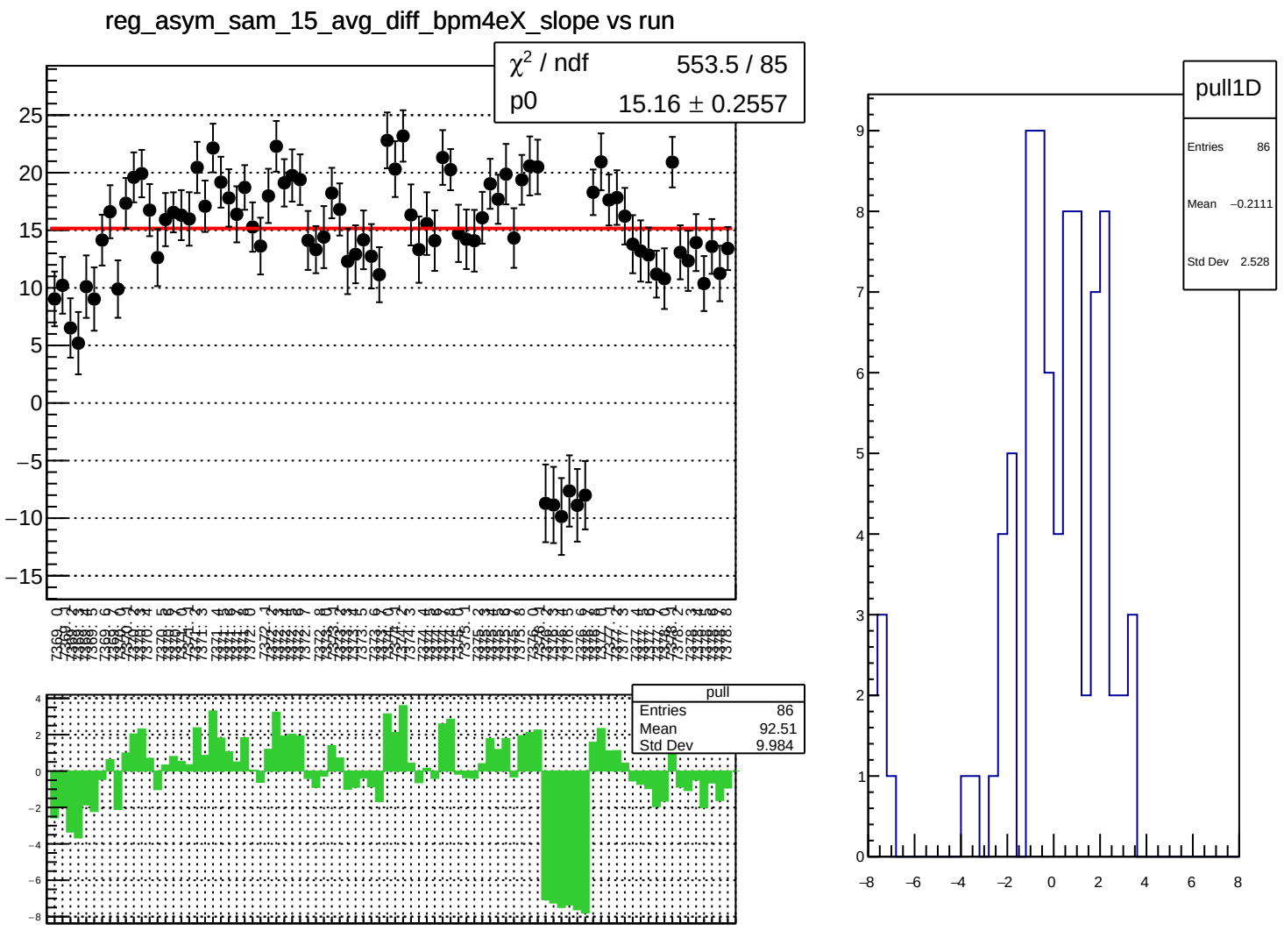

pull1D
Entries 86
Mean −0.004534
Std Dev 1.296

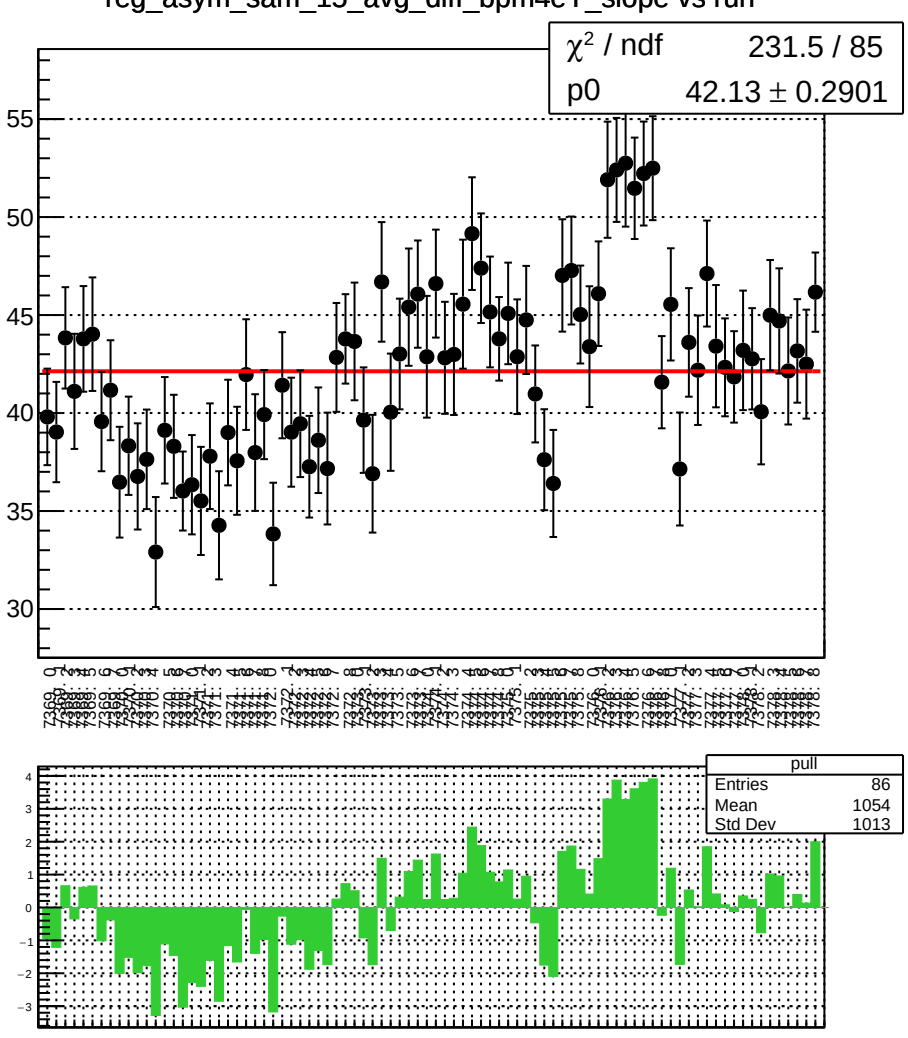

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 173.1 / 85
p0 −19.14 ± 0.03297
−18
−18.5
−19
−19.5
−20
−20.5
pull
Entries 86
Mean −340.2
Std Dev 383.2
3
2
1
0
−1
−2
−3

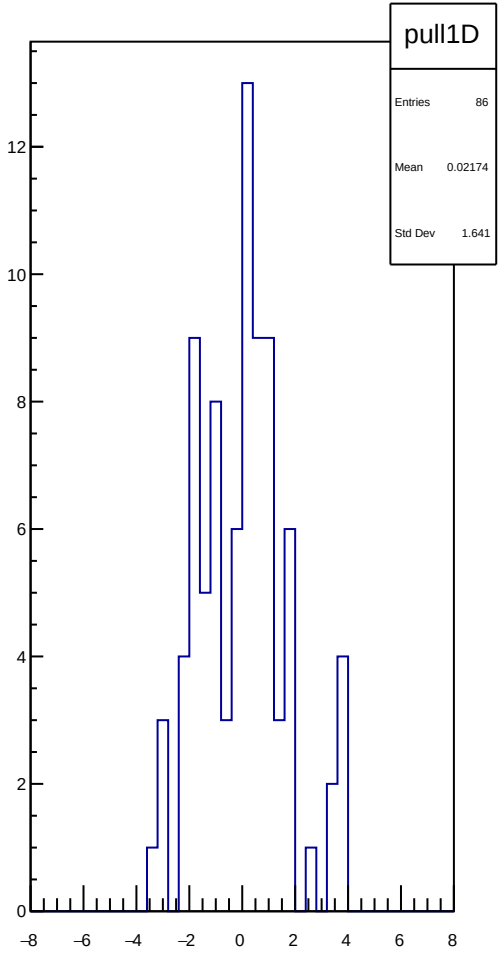

pull1D
Entries 86
Mean 0.06886
Std Dev 1.417
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

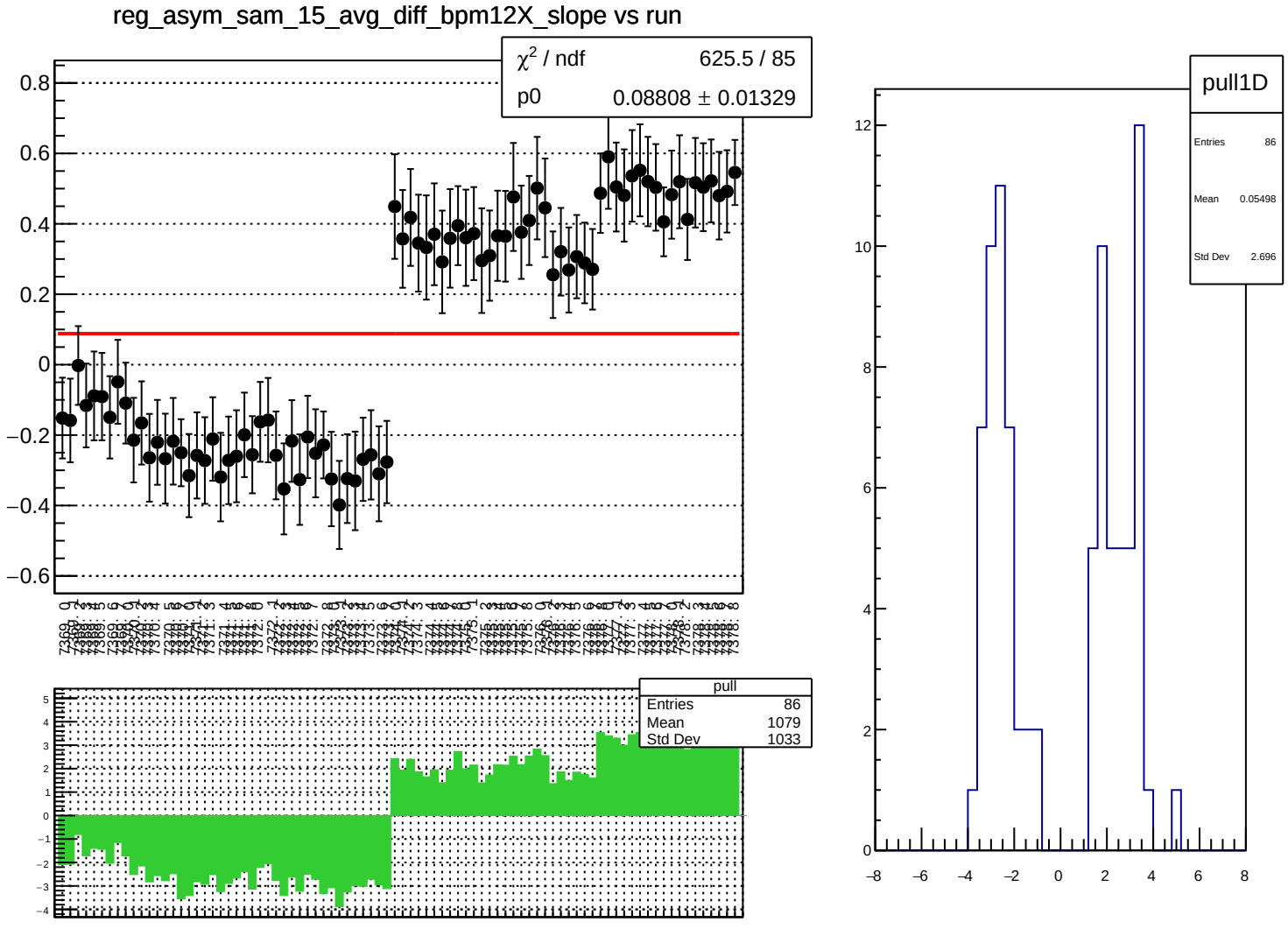

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 581.6 / 85
p0 −22.36 ± 0.2459
pull
Entries 86
Mean 82.74
Std Dev 29.79
pull1D
Entries 86
Mean 0.1174
Std Dev 2.462

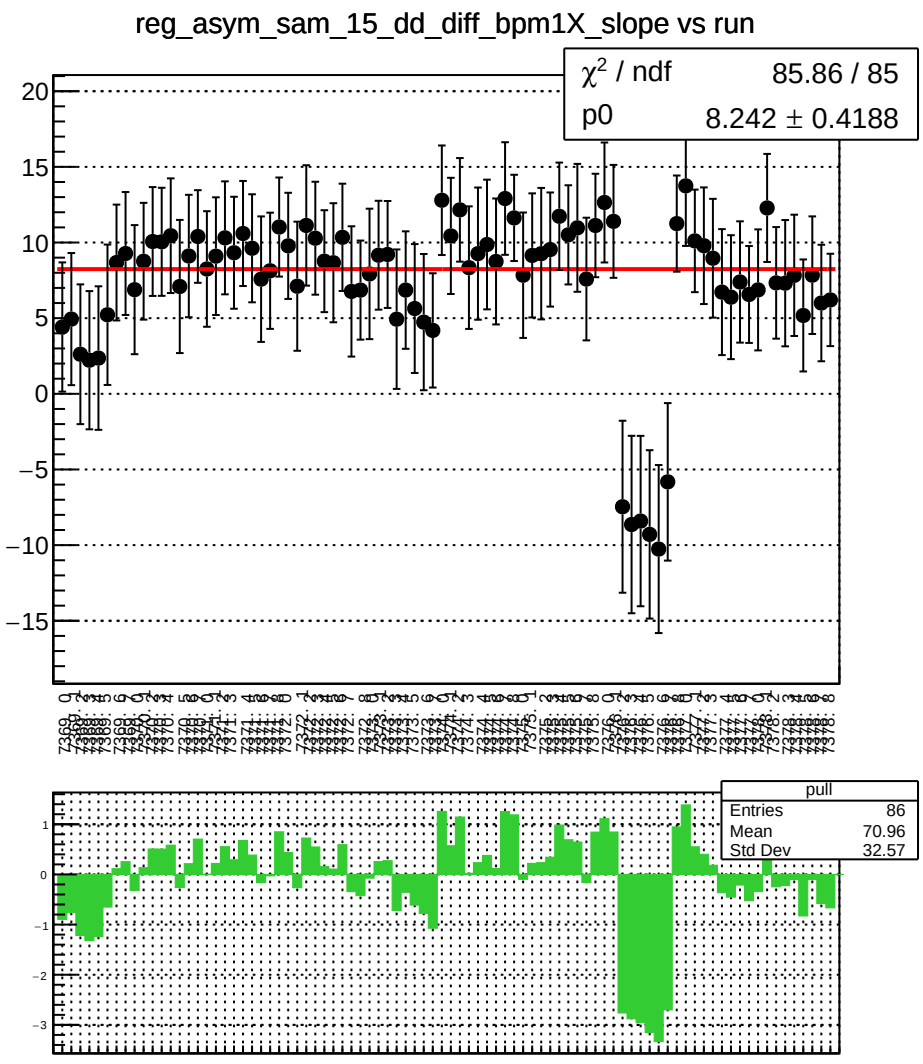

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 320.1 / 85
p0 12.28 ± 0.2715
pull
Entries 86
Mean −243.7
Std Dev 295.7
pull1D
Entries 86
Mean 0.02906
Std Dev 1.929

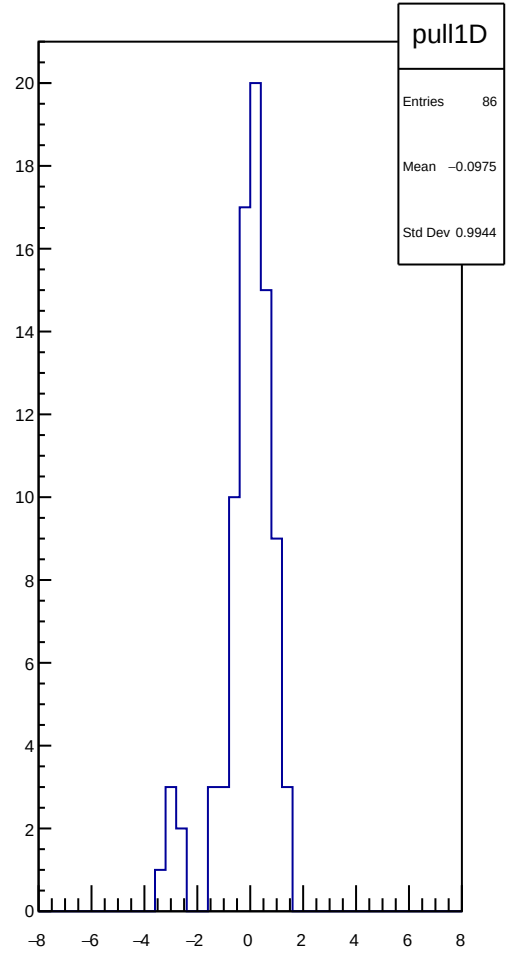

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 553.5 / 85
p0 15.16 ± 0.2557
pull
Entries 86
Mean 92.51
Std Dev 9.984
pull1D
Entries 86
Mean −0.2111
Std Dev 2.528

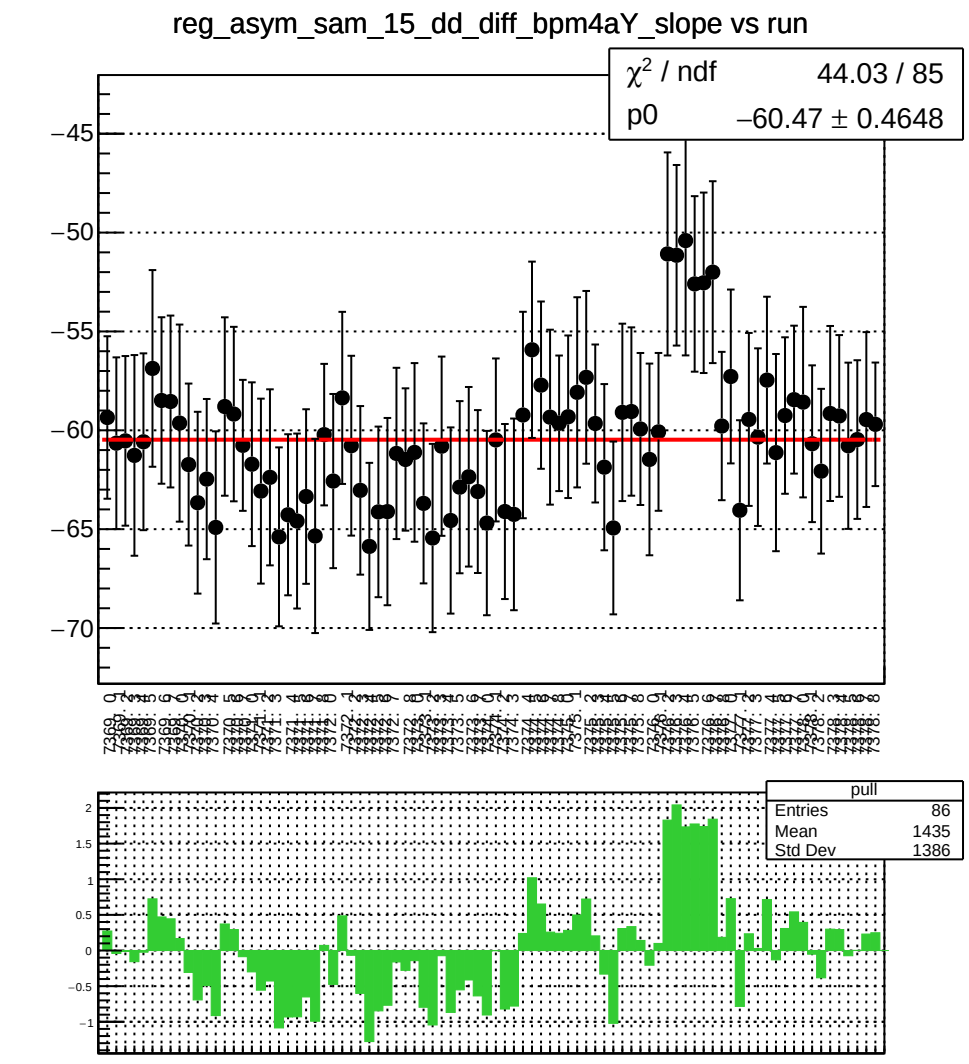

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 231.5 / 85
p0 42.13 ± 0.2901
pull
Entries 86
Mean 1054
Std Dev 1013

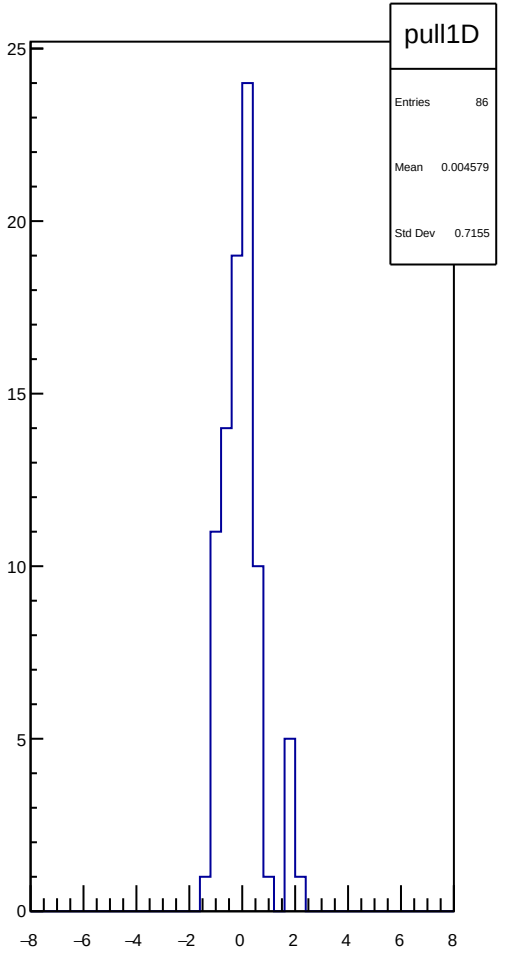

pull1D
Entries 86
Mean 0.02174
Std Dev 1.641

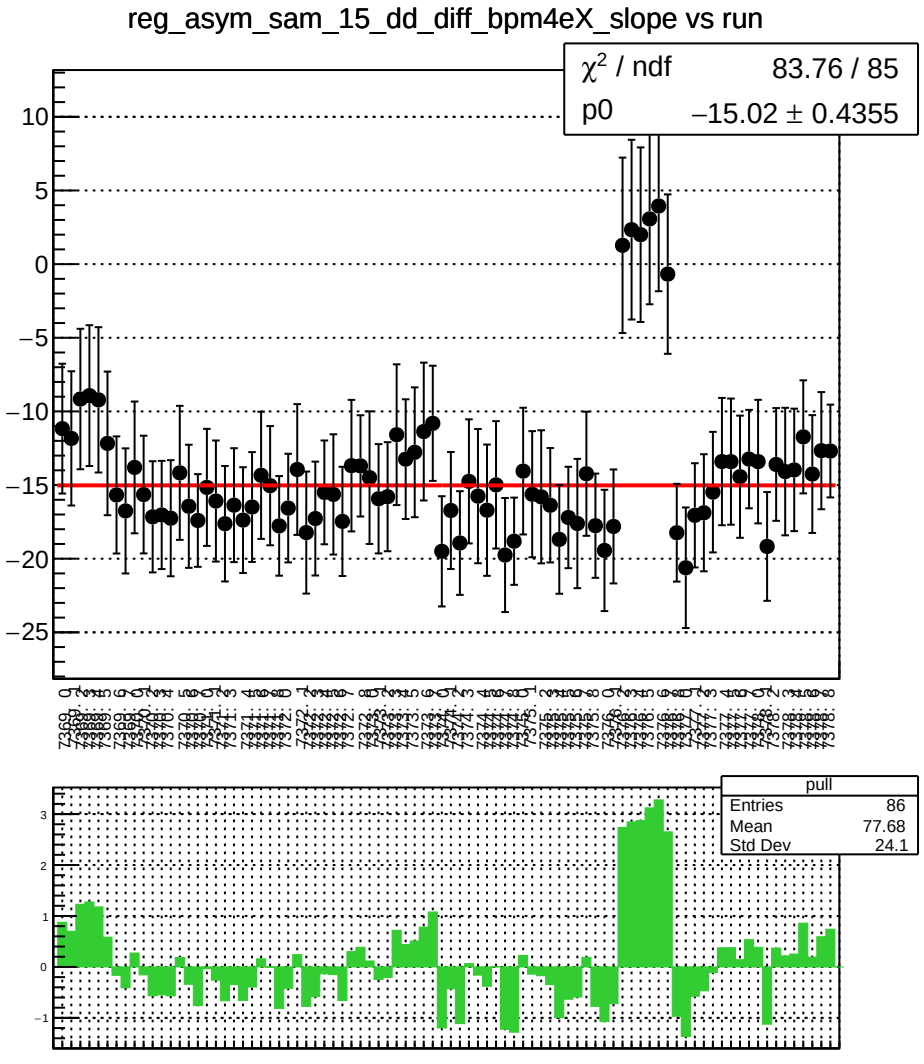

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 625.5 / 85
p0 0.08808 ± 0.01329
pull
Entries 86
Mean 1079
Std Dev 1033
pull1D
Entries 86
Mean 0.05498
Std Dev 2.696

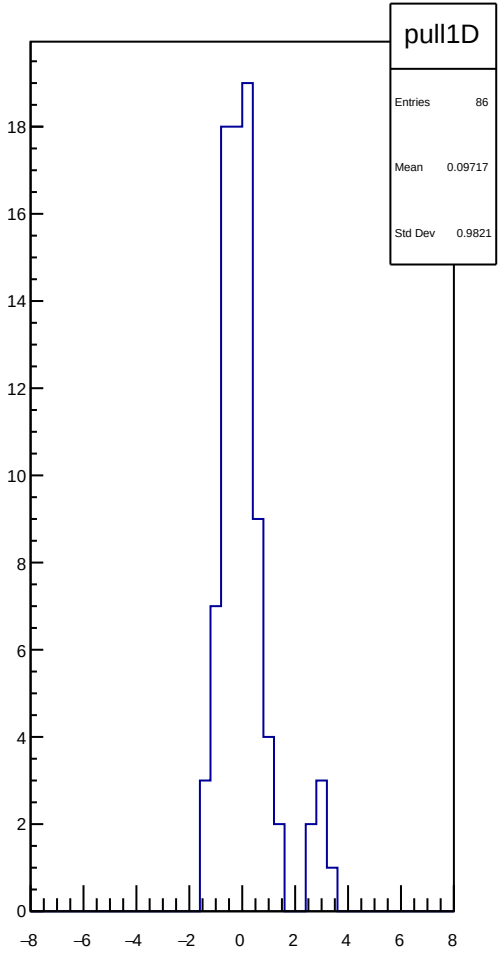

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 85.86 / 85
p0 8.242 ± 0.4188
pull
Entries 86
Mean 70.96
Std Dev 32.57

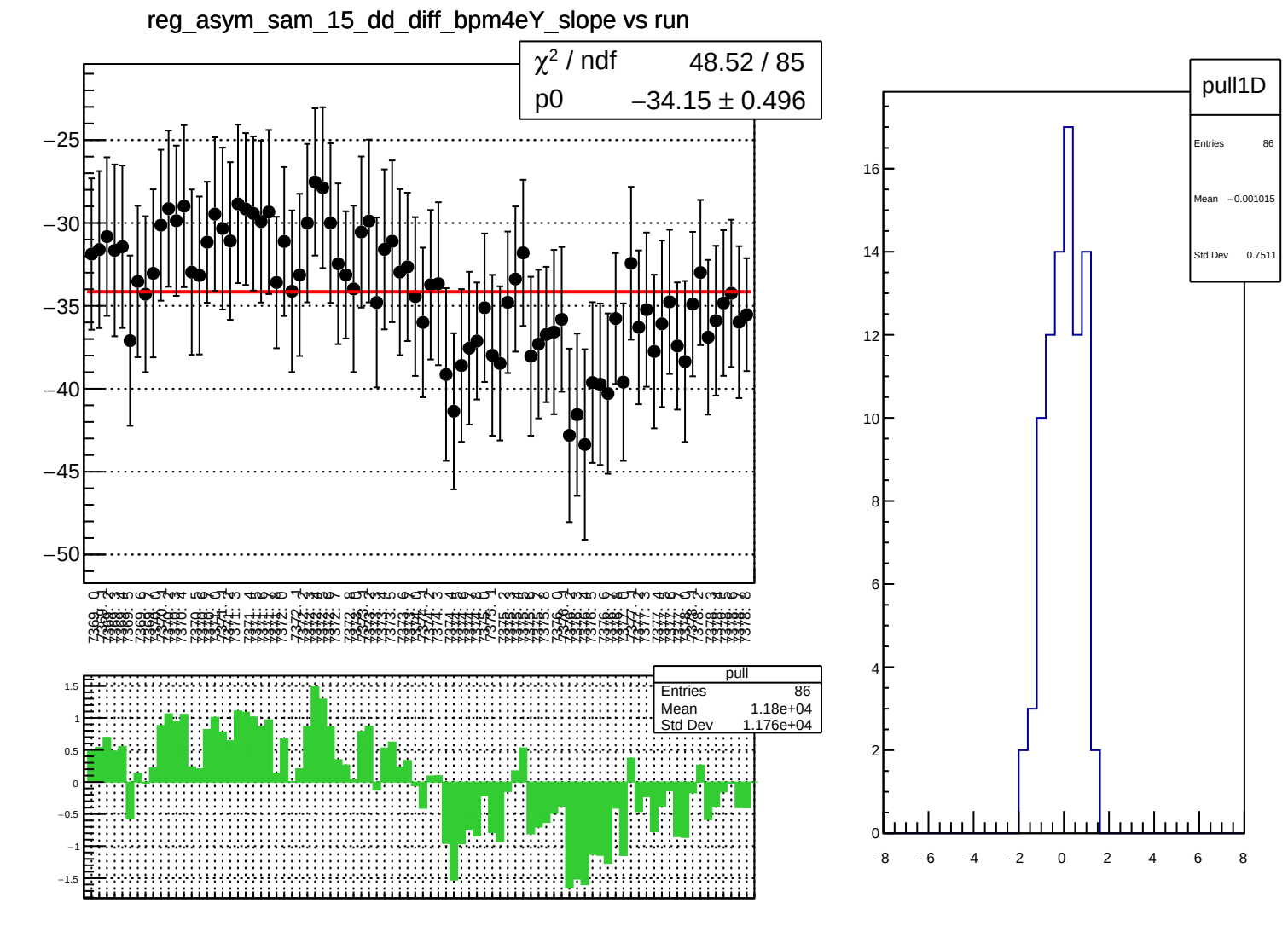

pull1D
Entries 86
Mean −0.0975
Std Dev 0.9944

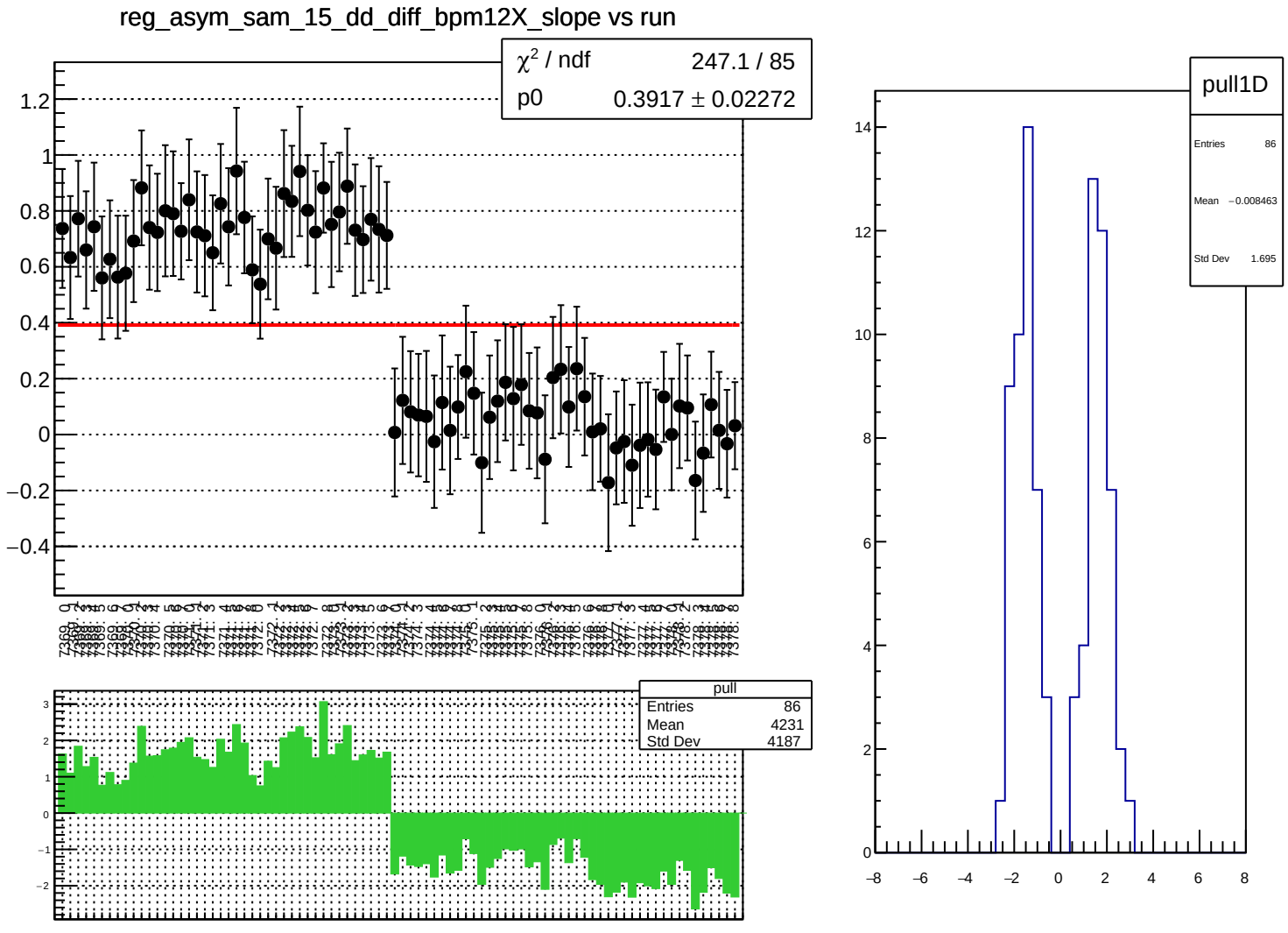

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.03 / 85
p0 −60.47 ± 0.4648
pull
Entries 86
Mean 1435
Std Dev 1386

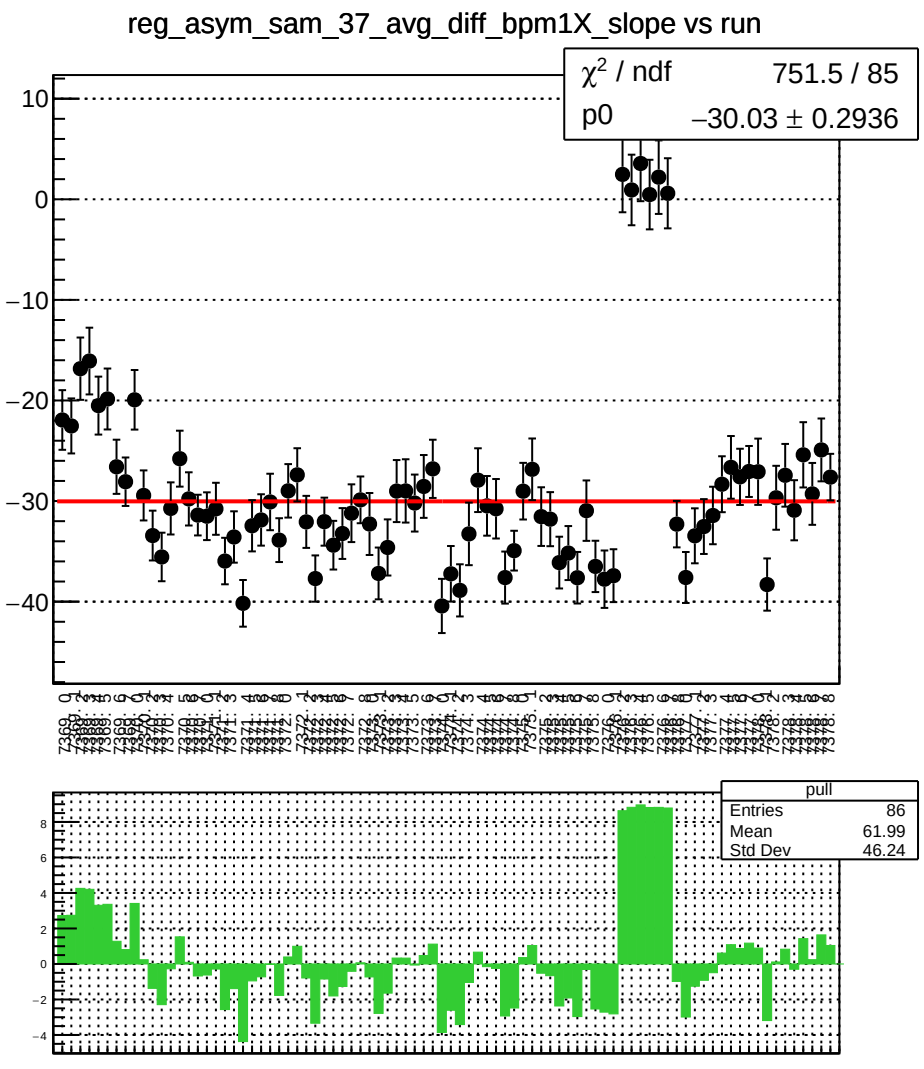

pull1D
Entries 86
Mean 0.004579
Std Dev 0.7155

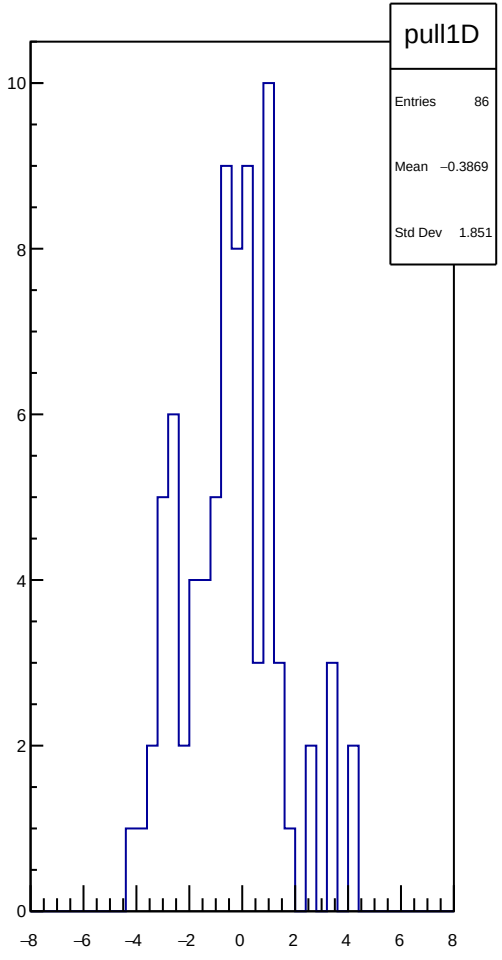

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 83.76 / 85
p0 −15.02 ± 0.4355
pull
Entries 86
Mean 77.68
Std Dev 24.1

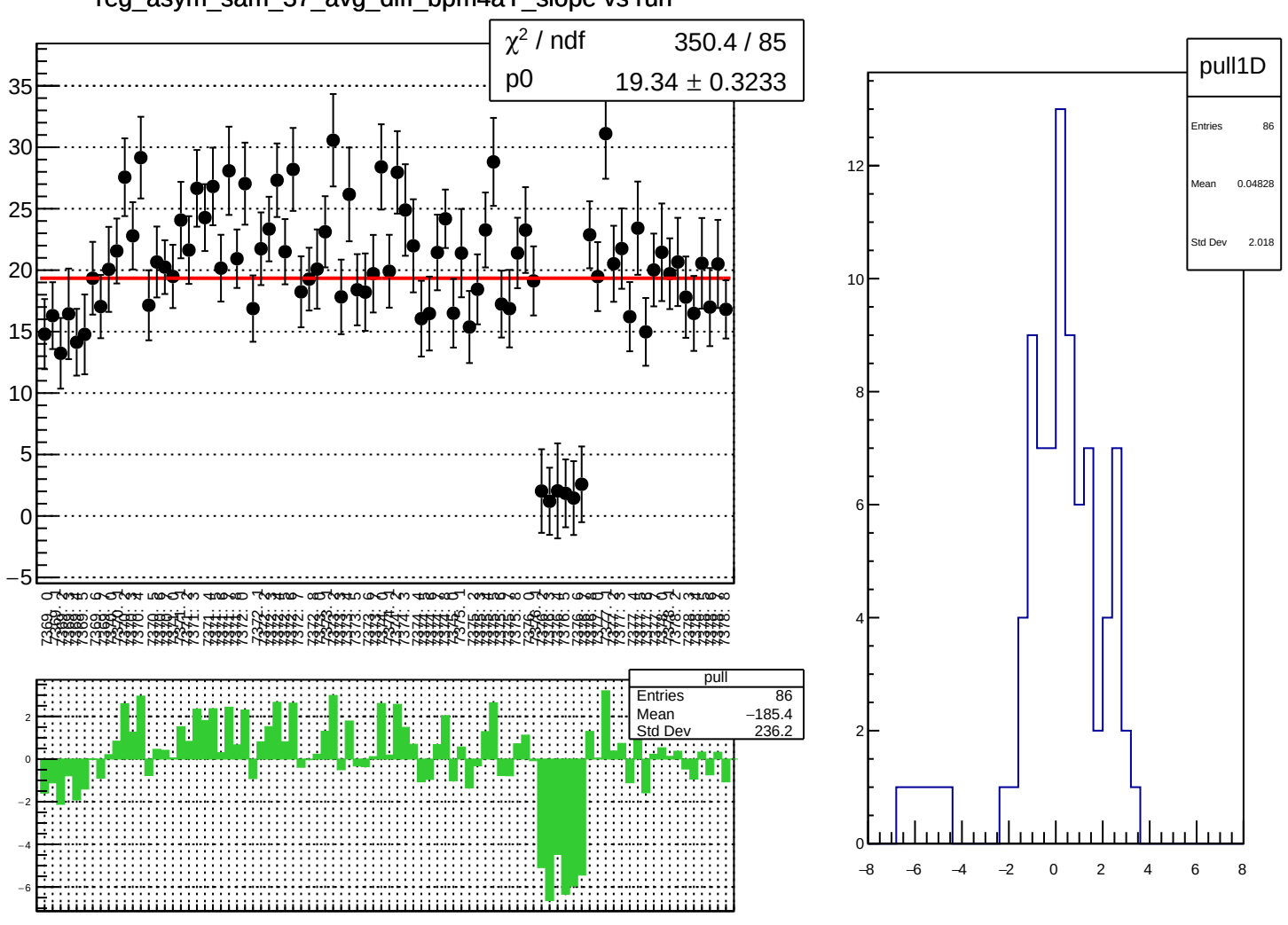

pull1D
Entries 86
Mean 0.09717
Std Dev 0.9821

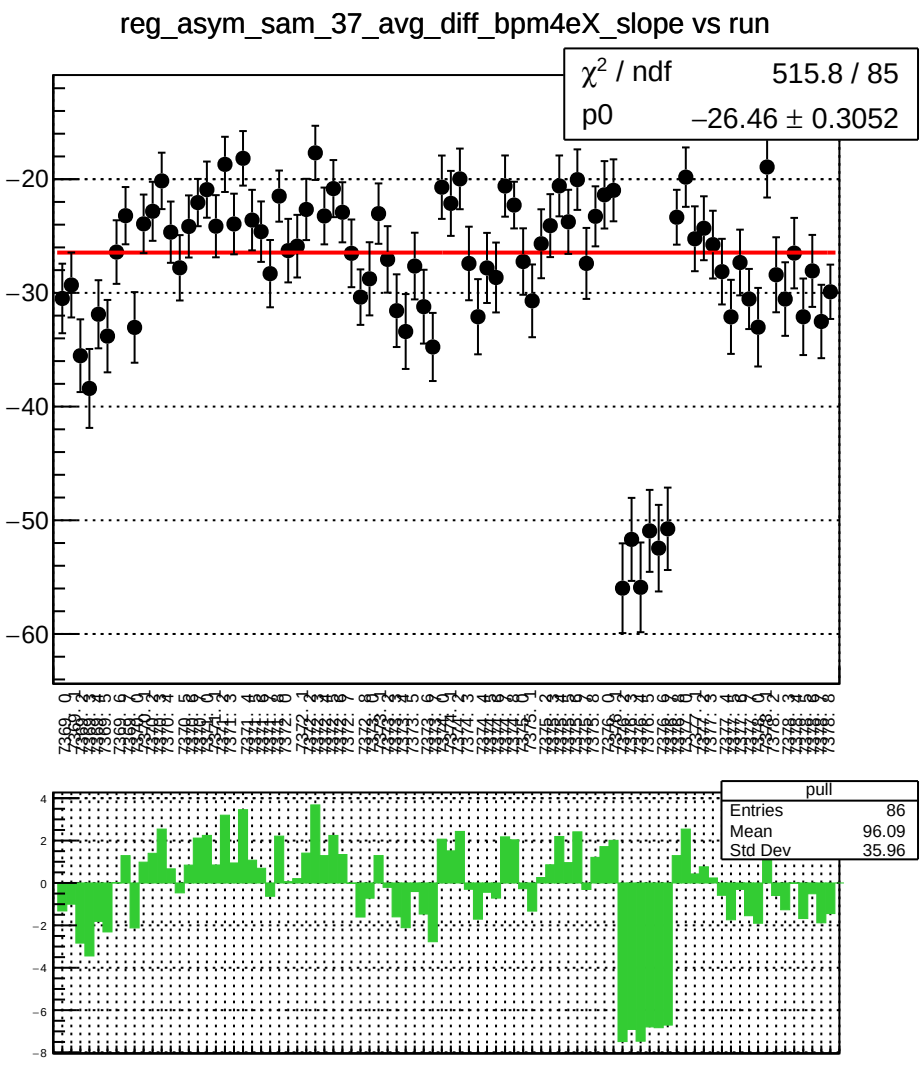

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.52 / 85
p0 −34.15 ± 0.496
pull
Entries 86
Mean 1.18e+04
Std Dev 1.176e+04
pull1D
Entries 86
Mean −0.001015
Std Dev 0.7511

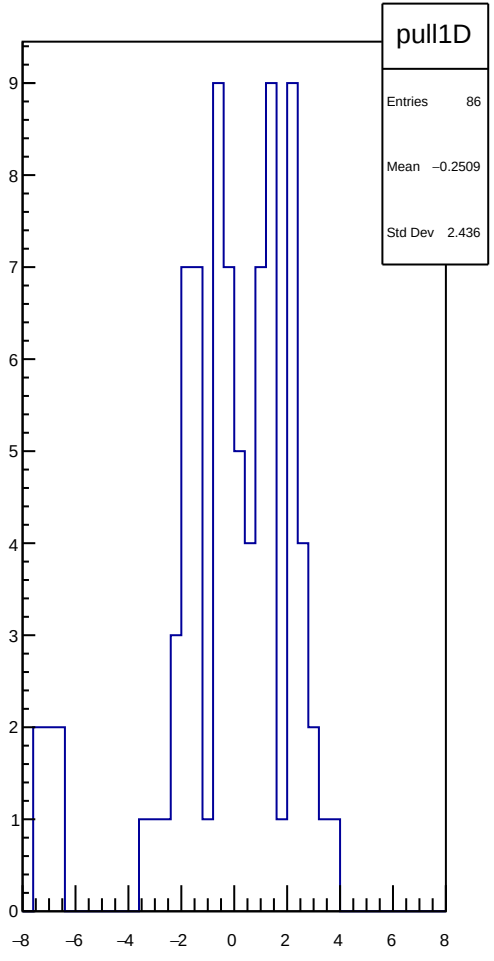

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 247.1 / 85
p0 0.3917 ± 0.02272
pull
Entries 86
Mean 4231
Std Dev 4187
pull1D
Entries 86
Mean −0.008463
Std Dev 1.695

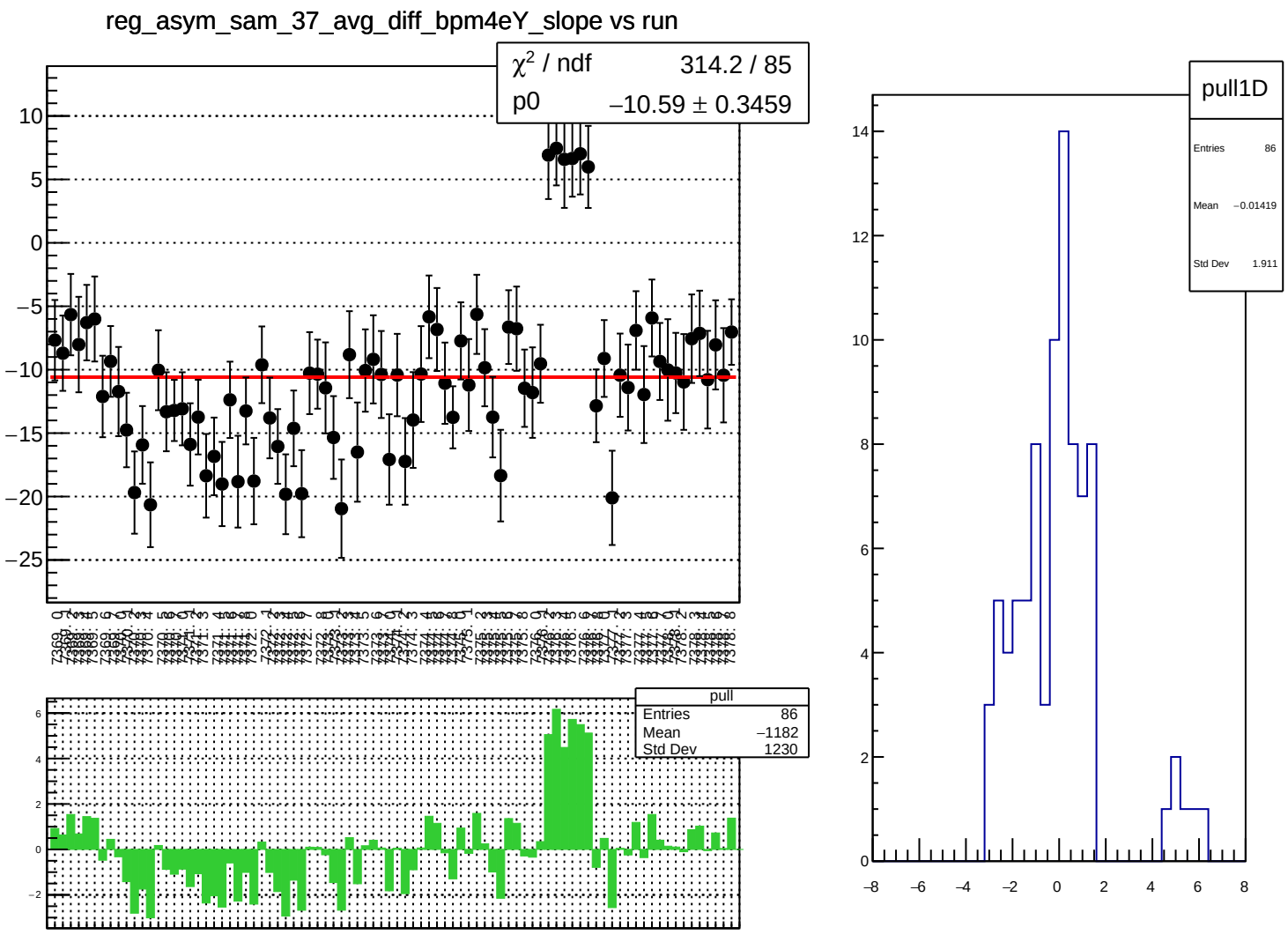

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 751.5 / 85
p0 −30.03 ± 0.2936
pull
Entries 86
Mean 61.99
Std Dev 46.24

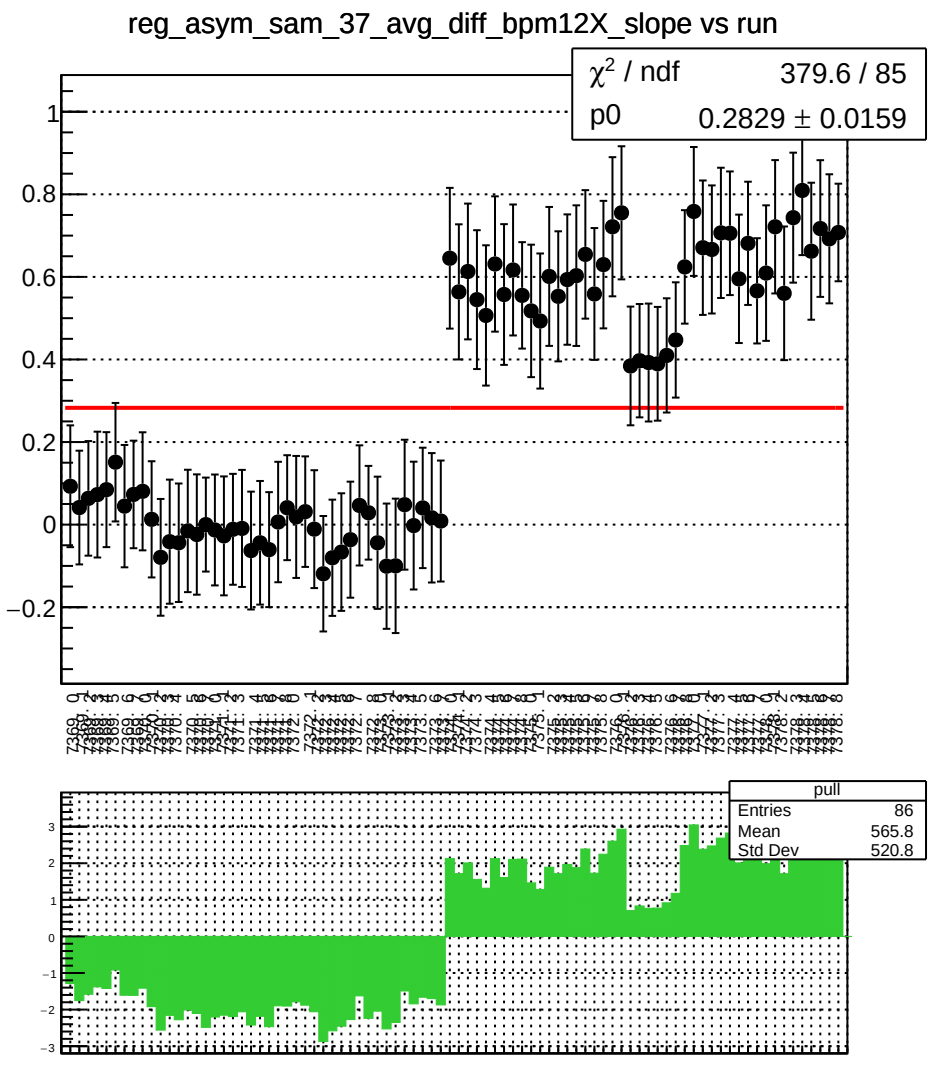

pull1D
Entries 86
Mean −0.3869
Std Dev 1.851

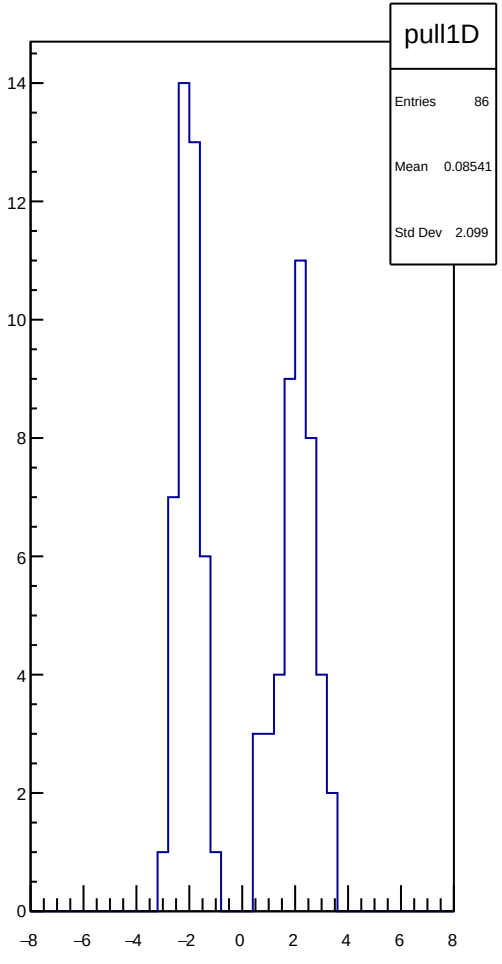

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 350.4 / 85
p0 19.34 ± 0.3233
pull
Entries 86
Mean −185.4
Std Dev 236.2
pull1D
Entries 86
Mean 0.04828
Std Dev 2.018

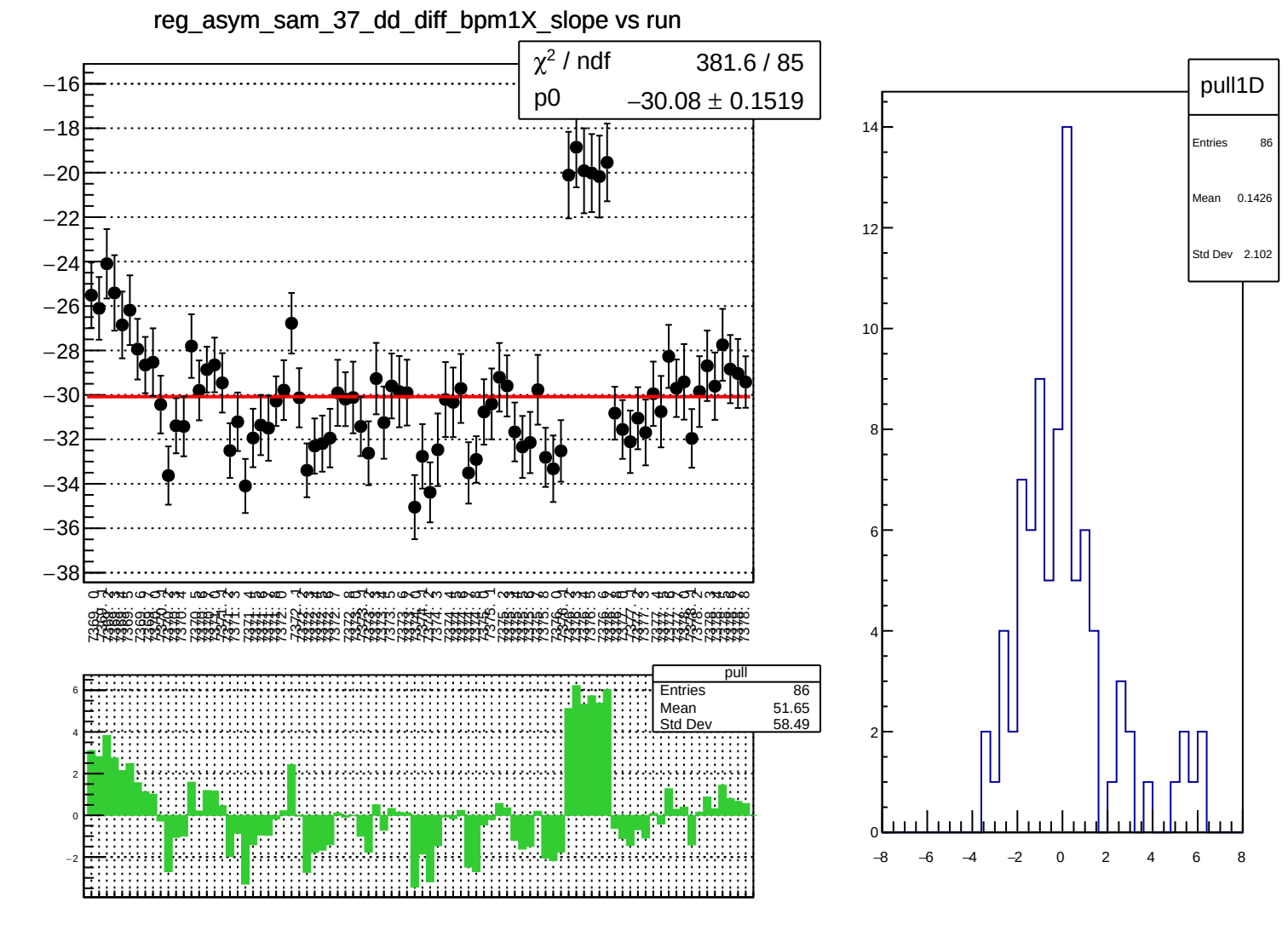

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 515.8 / 85
p0 −26.46 ± 0.3052
pull
Entries 86
Mean 96.09
Std Dev 35.96

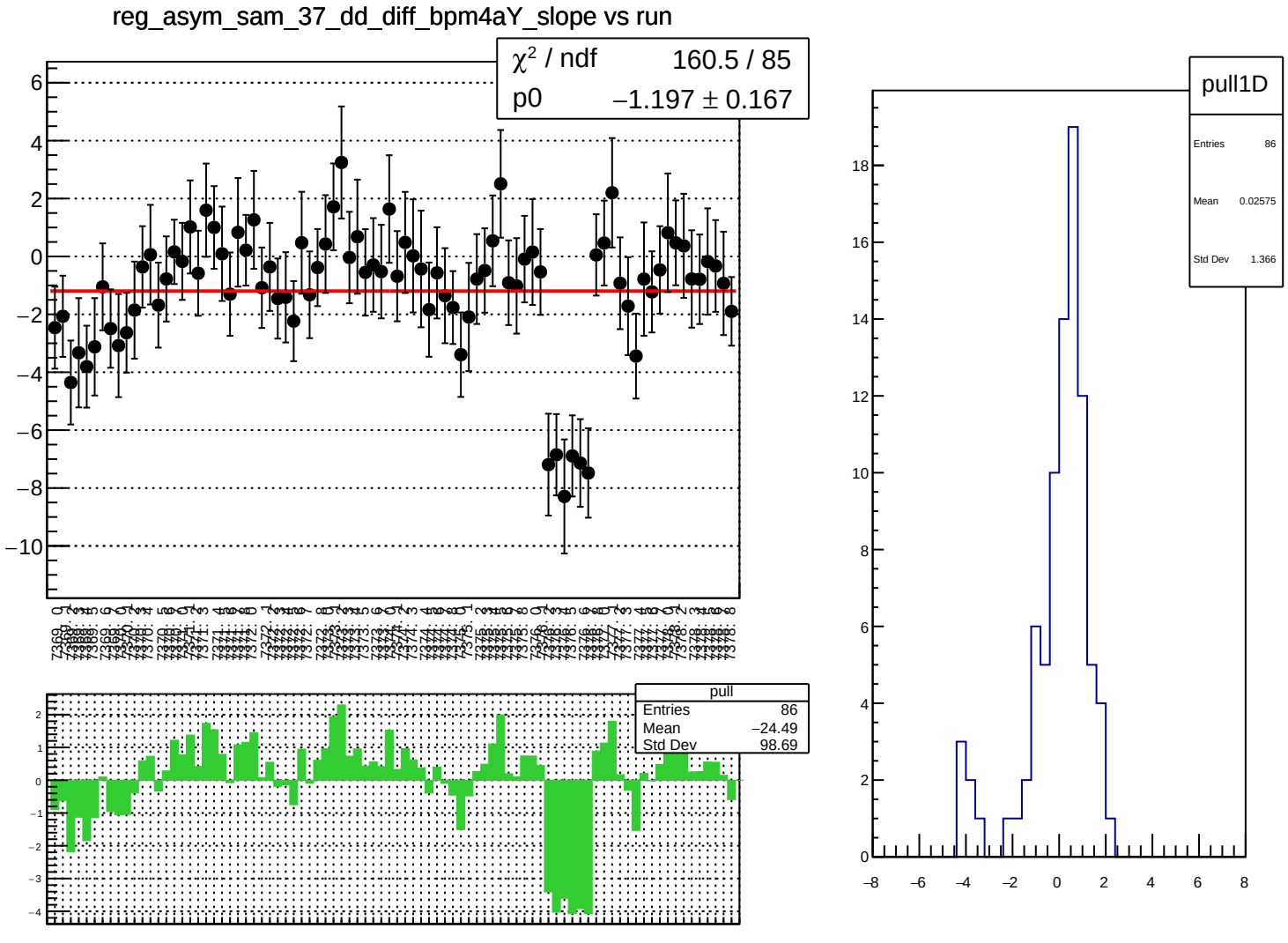

pull1D
Entries 86
Mean −0.2509
Std Dev 2.436

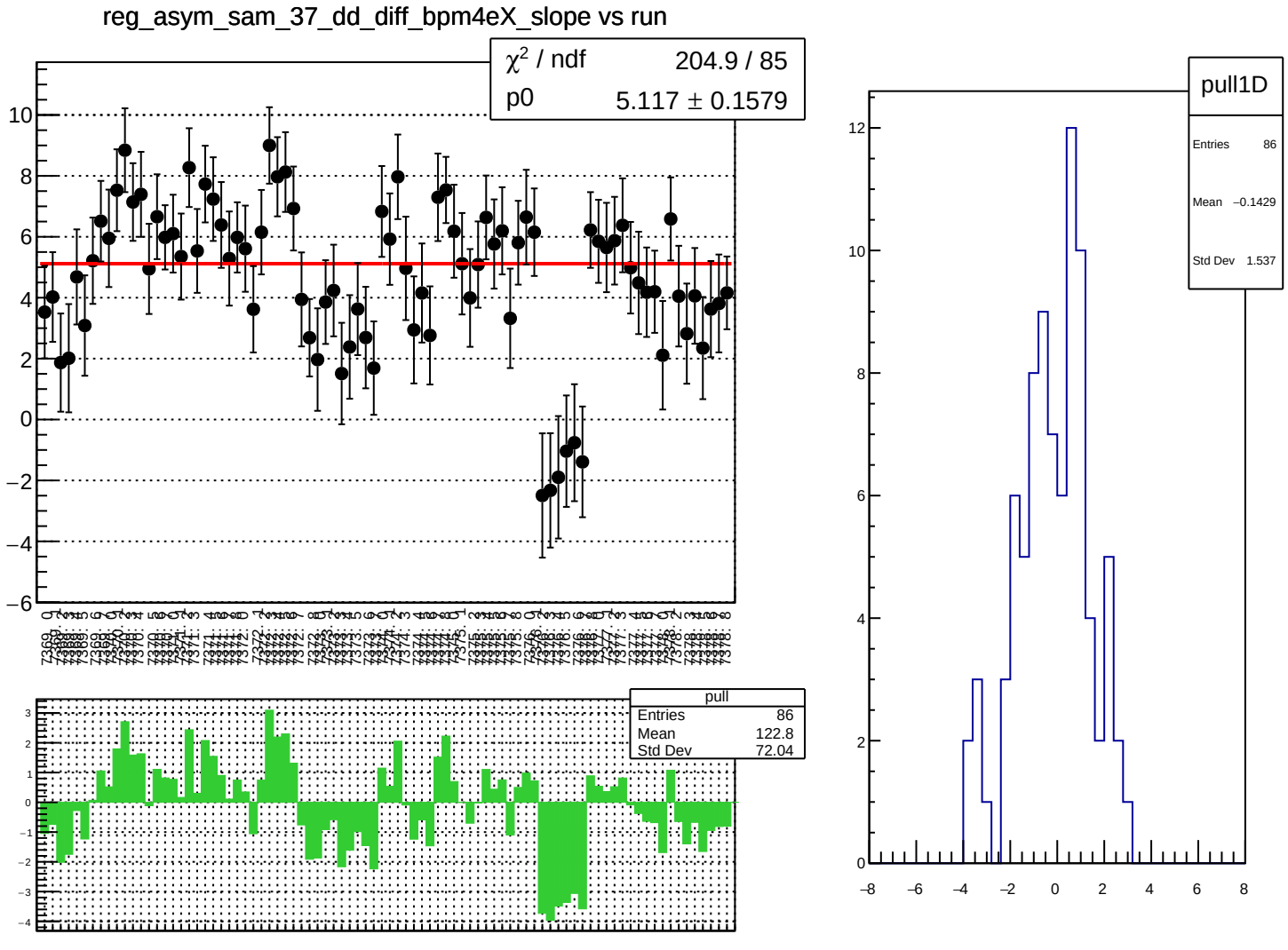

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 314.2 / 85
p0 −10.59 ± 0.3459
pull
Entries 86
Mean −1182
Std Dev 1230
pull1D
Entries 86
Mean −0.01419
Std Dev 1.911

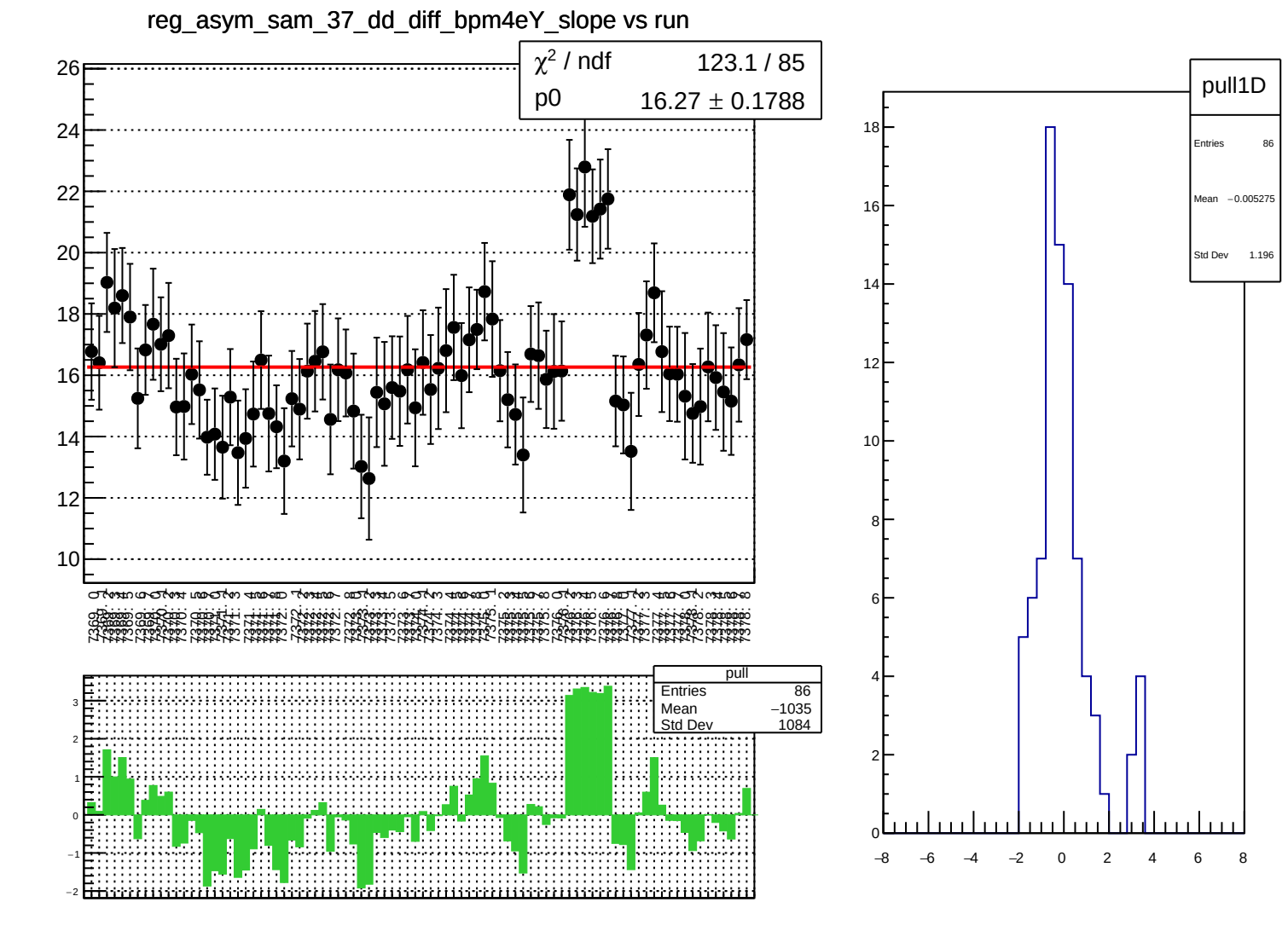

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 379.6 / 85
p0 0.2829 ± 0.0159
pull
Entries 86
Mean 565.8
Std Dev 520.8

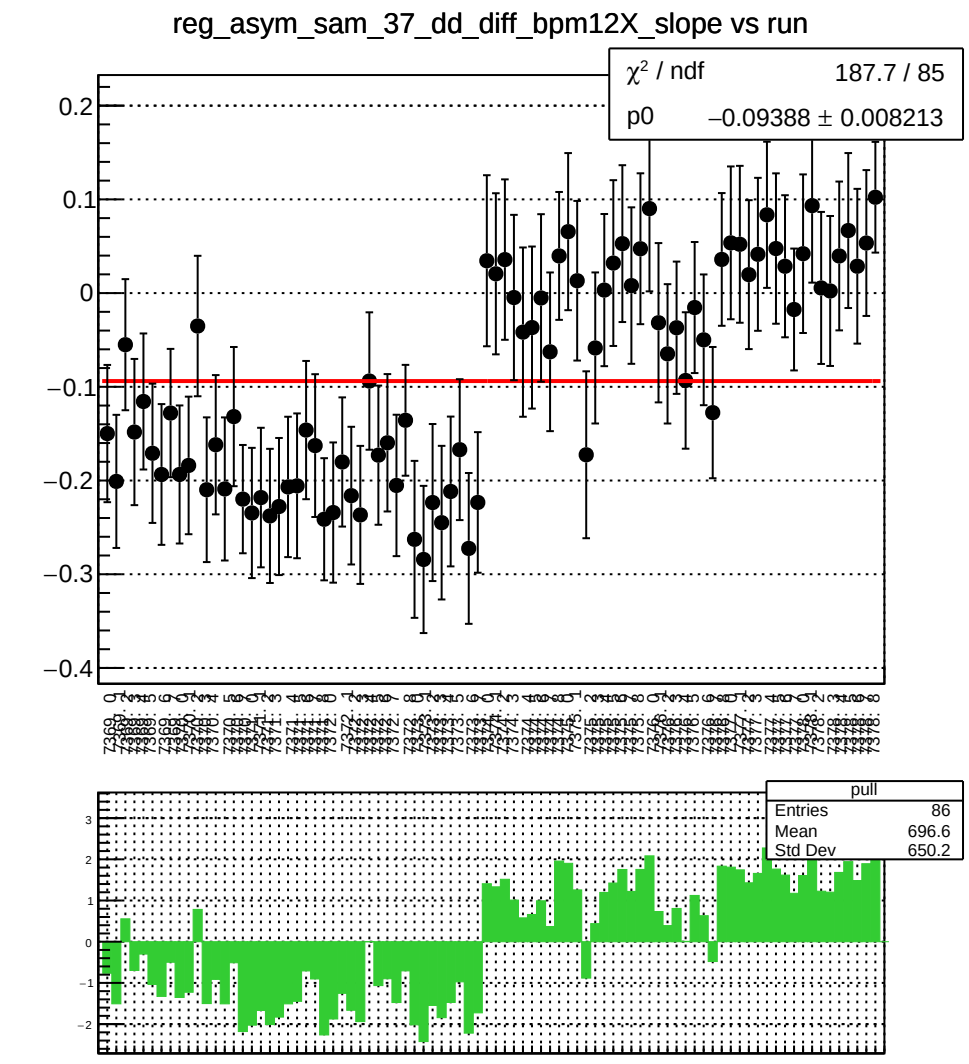

pull1D
Entries 86
Mean 0.08541
Std Dev 2.099

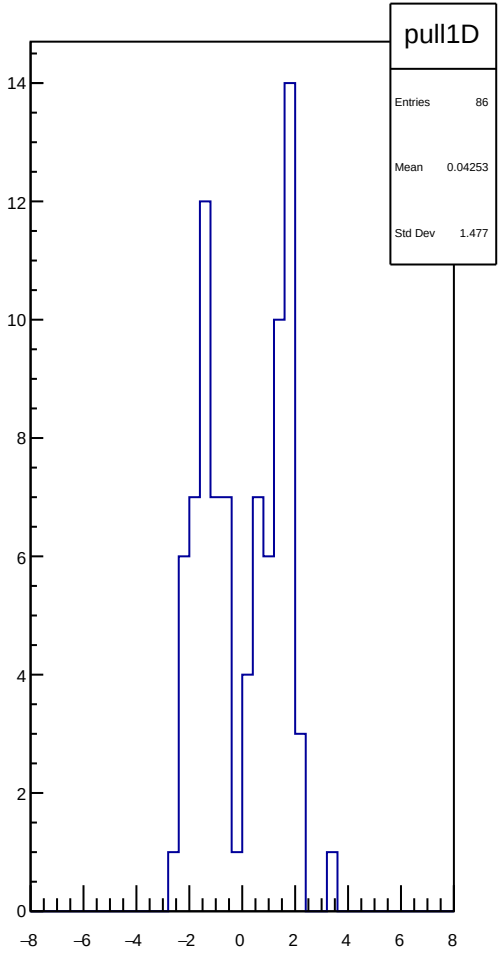

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 381.6 / 85
p0 −30.08 ± 0.1519
pull
Entries 86
Mean 51.65
Std Dev 58.49
pull1D
Entries 86
Mean 0.1426
Std Dev 2.102

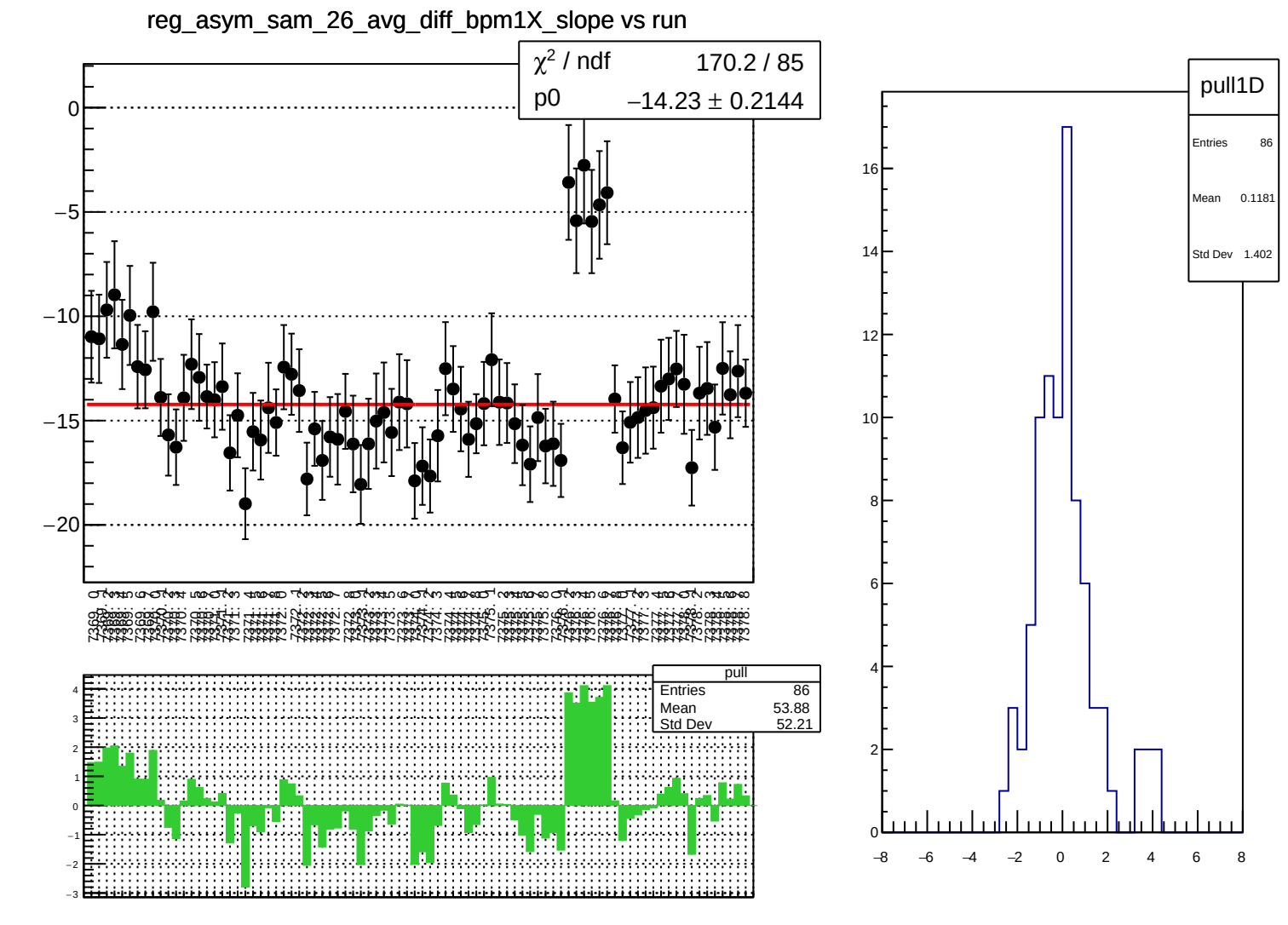

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 160.5 / 85
p0 −1.197 ± 0.167
pull
Entries 86
Mean −24.49
Std Dev 98.69
pull1D
Entries 86
Mean 0.02575
Std Dev 1.366

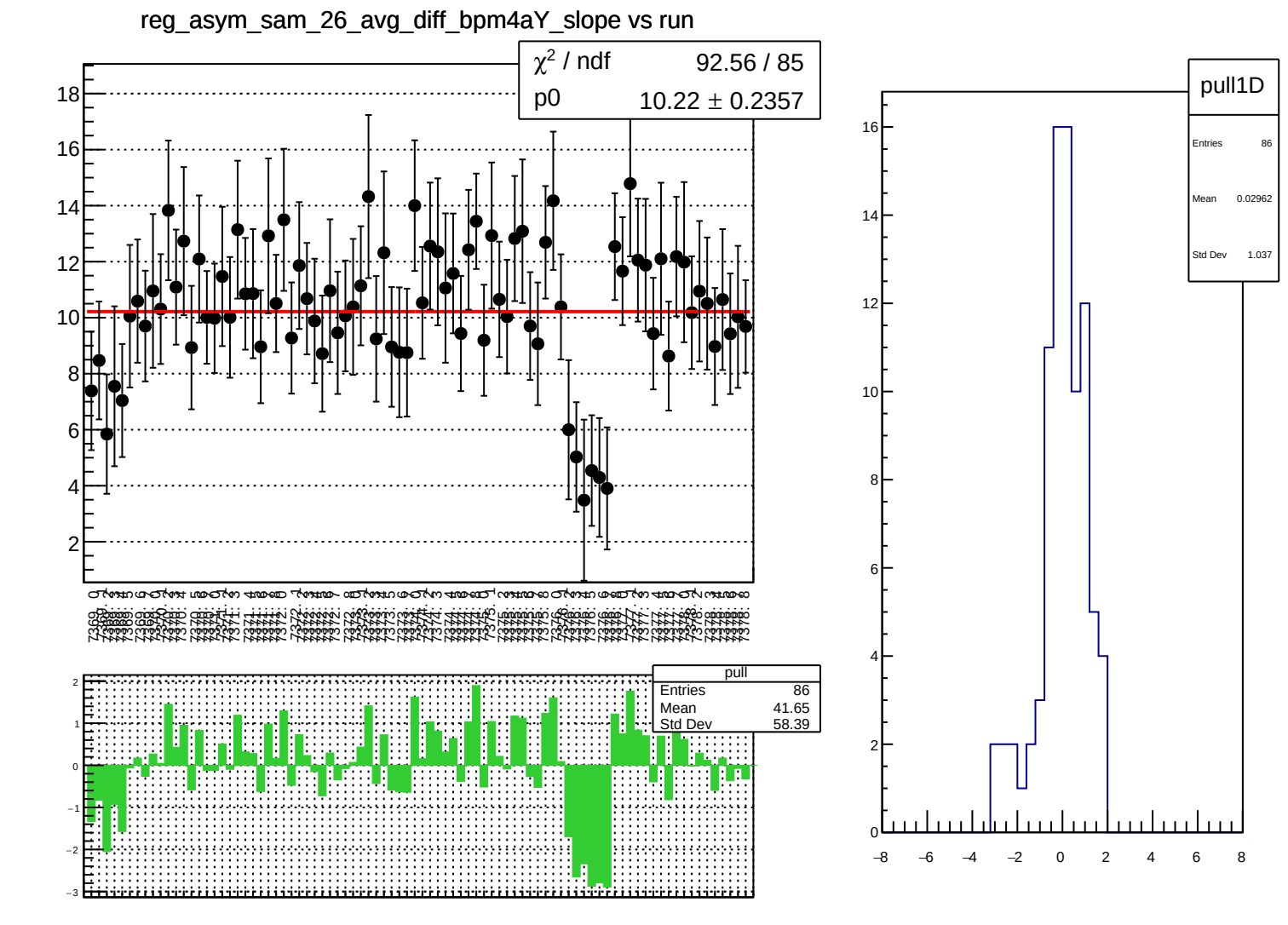

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 204.9 / 85
p0 5.117 ± 0.1579
pull
Entries 86
Mean 122.8
Std Dev 72.04
pull1D
Entries 86
Mean −0.1429
Std Dev 1.537

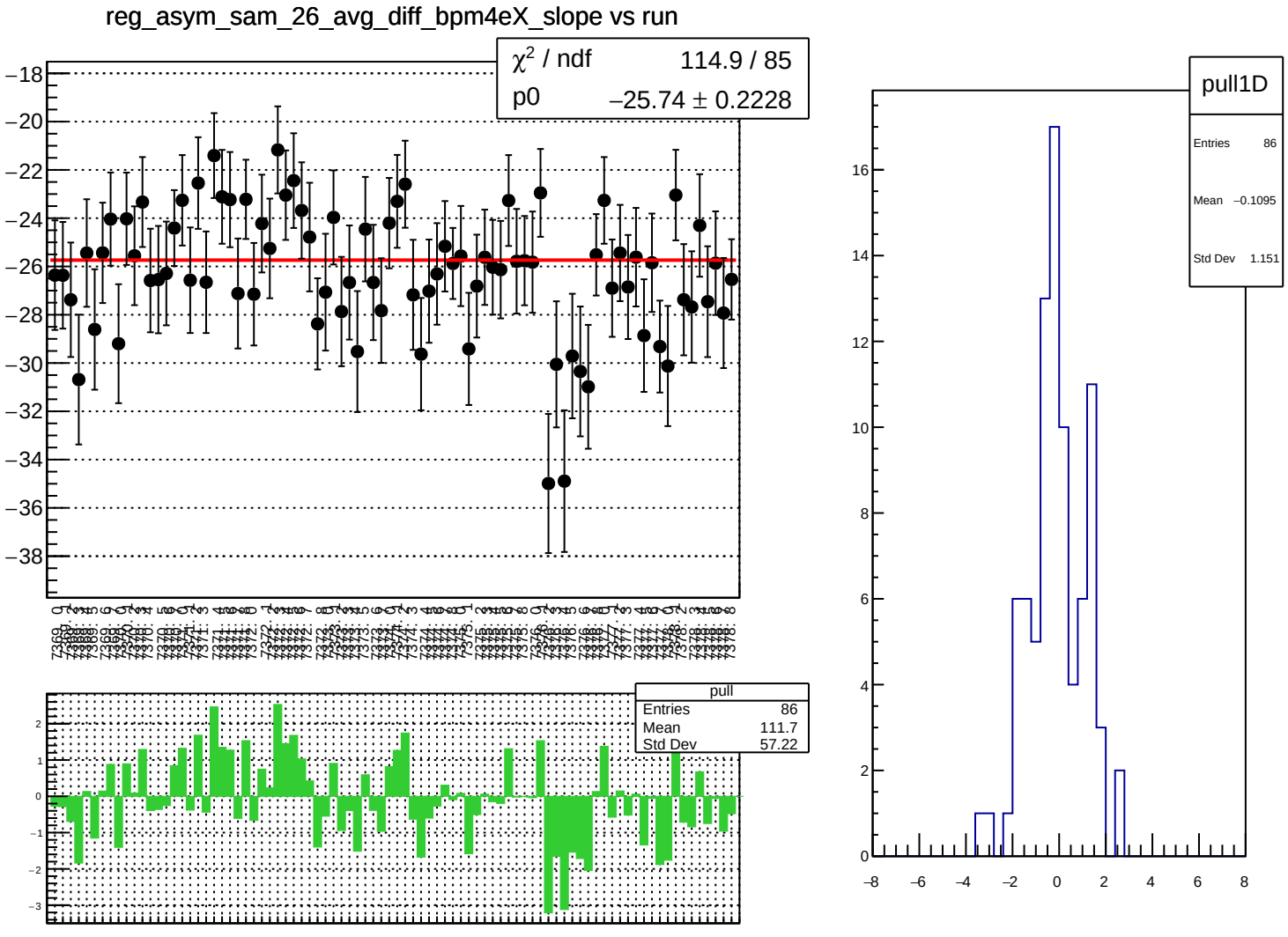

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 123.1 / 85
p0 16.27 ± 0.1788
pull
Entries 86
Mean −1035
Std Dev 1084
pull1D
Entries 86
Mean −0.005275
Std Dev 1.196

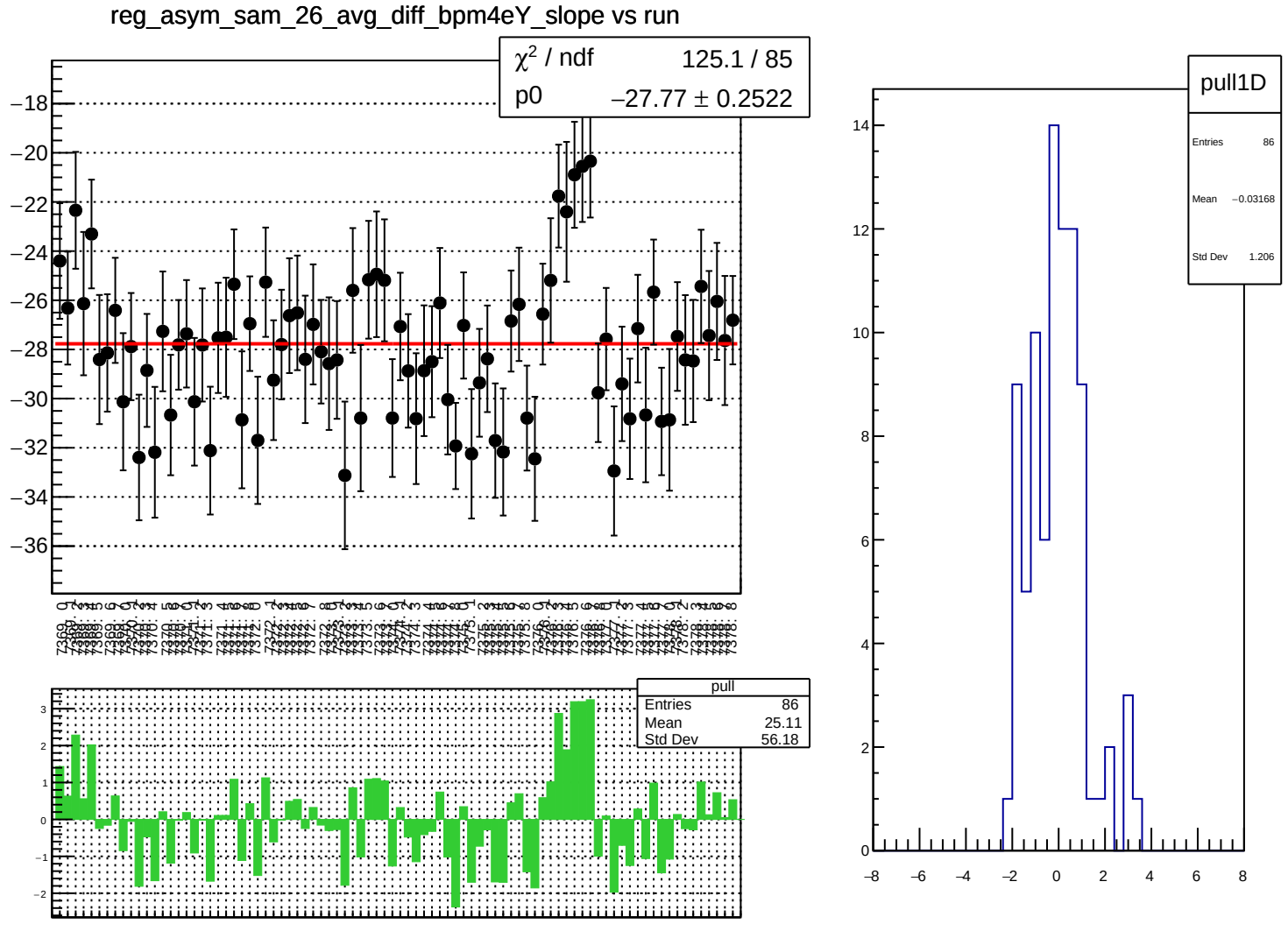

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 187.7 / 85
p0 −0.09388 ± 0.008213
pull
Entries 86
Mean 696.6
Std Dev 650.2

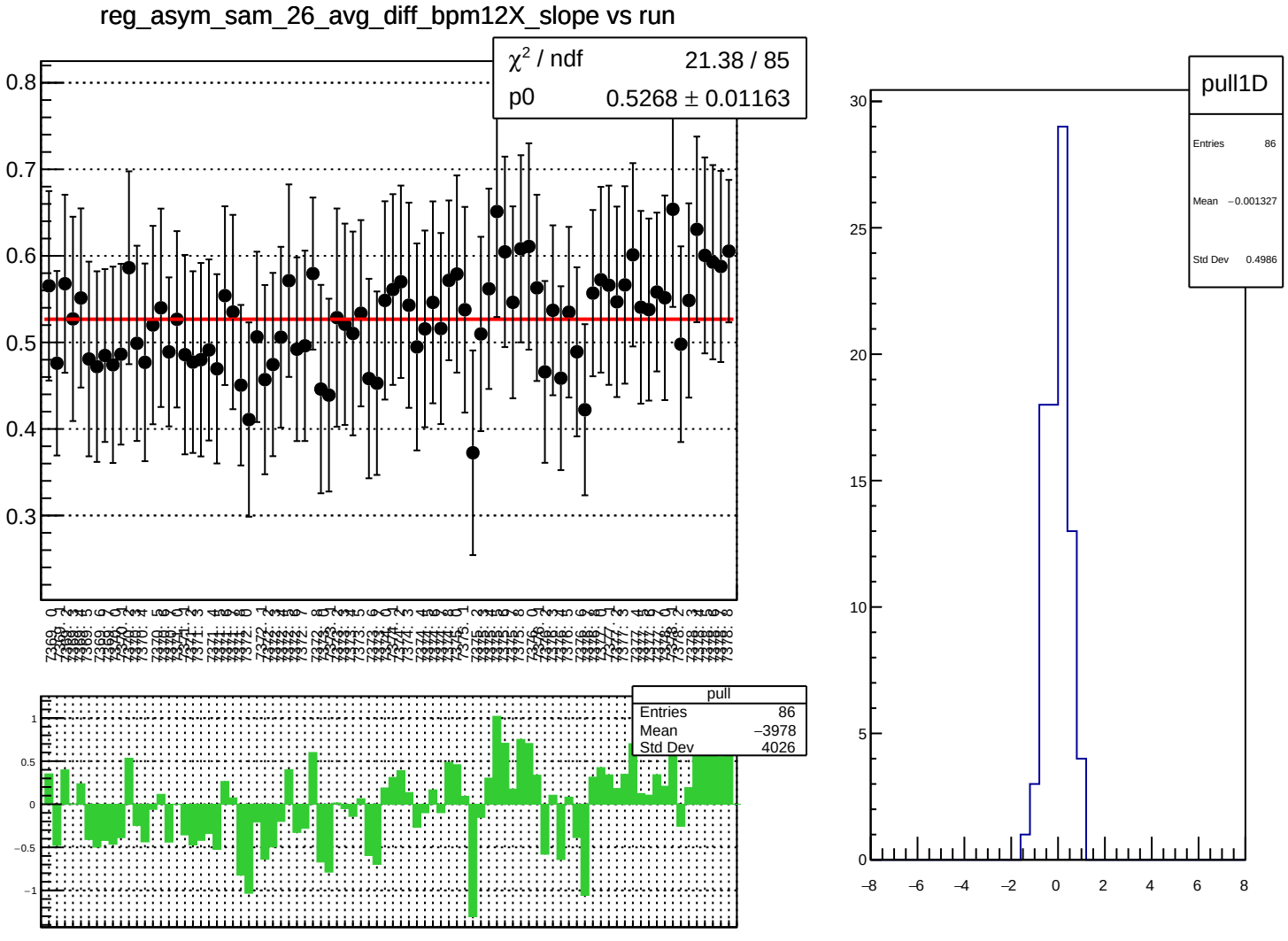

pull1D
Entries 86
Mean 0.04253
Std Dev 1.477

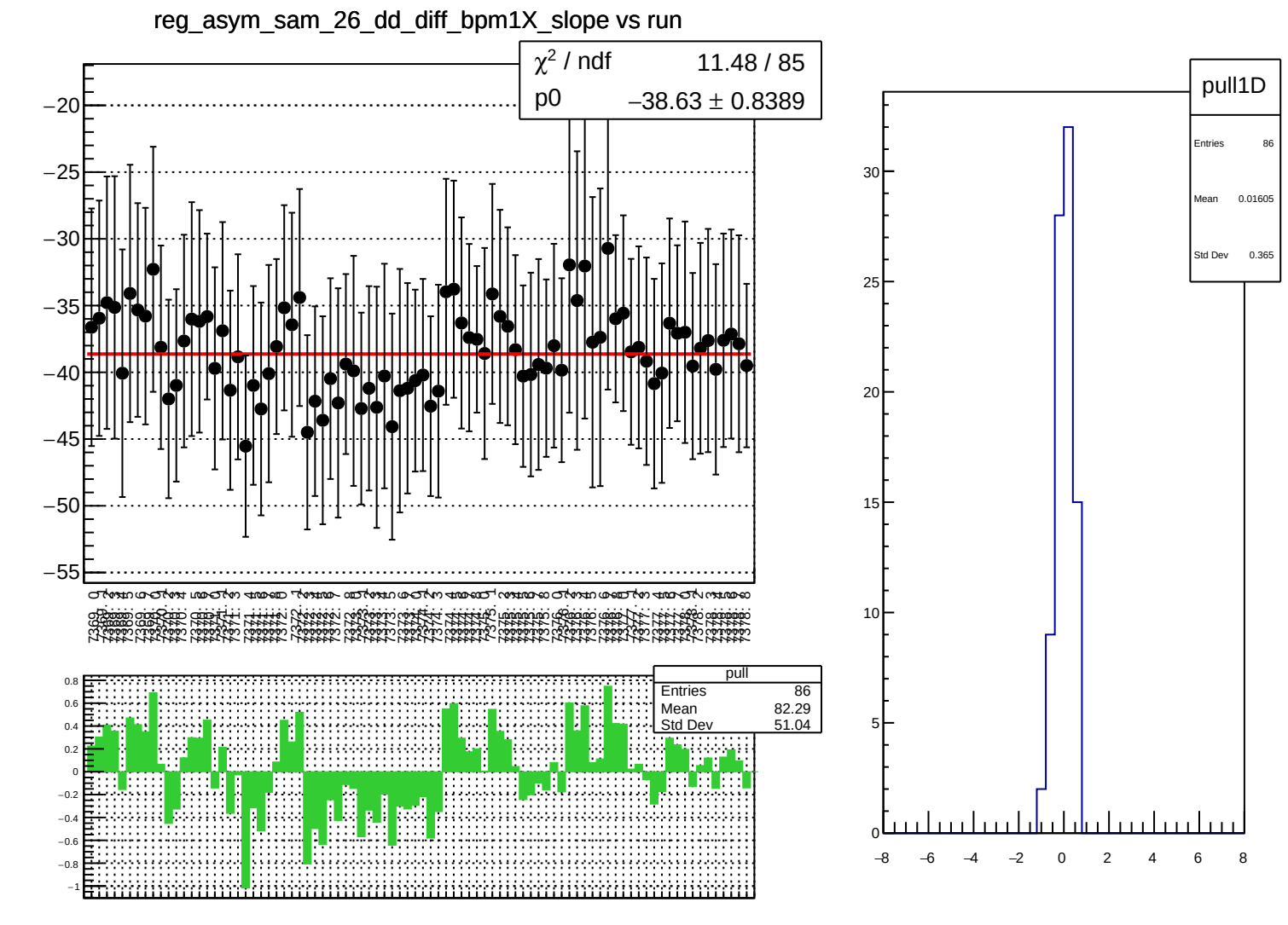

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 170.2 / 85
p0 −14.23 ± 0.2144
pull
Entries 86
Mean 53.88
Std Dev 52.21
pull1D
Entries 86
Mean 0.1181
Std Dev 1.402

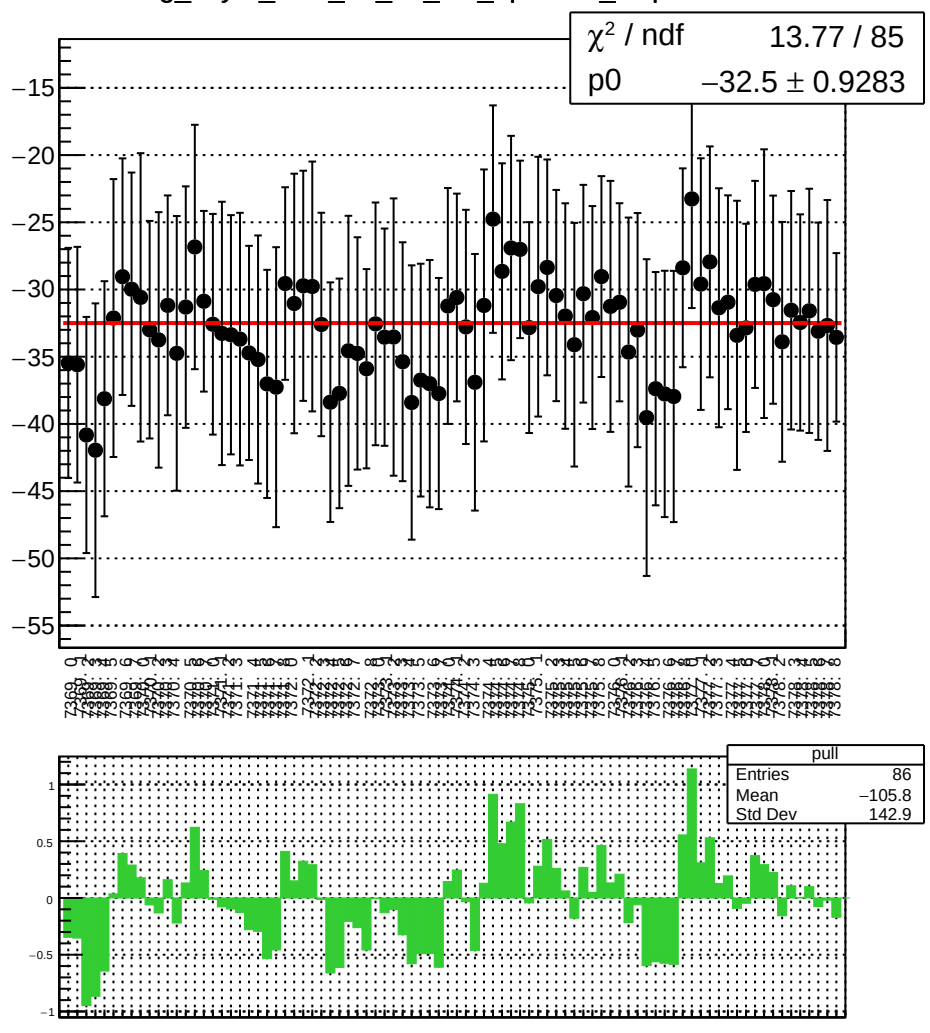

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 92.56 / 85
p0 10.22 ± 0.2357
pull
Entries 86
Mean 41.65
Std Dev 58.39
pull1D
Entries 86
Mean 0.02962
Std Dev 1.037

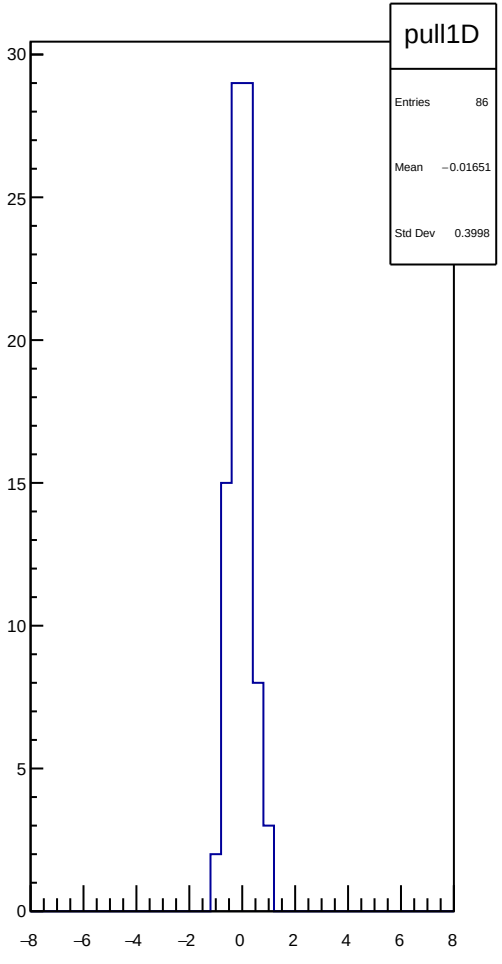

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 114.9 / 85
p0 −25.74 ± 0.2228
pull
Entries 86
Mean 111.7
Std Dev 57.22
pull1D
Entries 86
Mean −0.1095
Std Dev 1.151

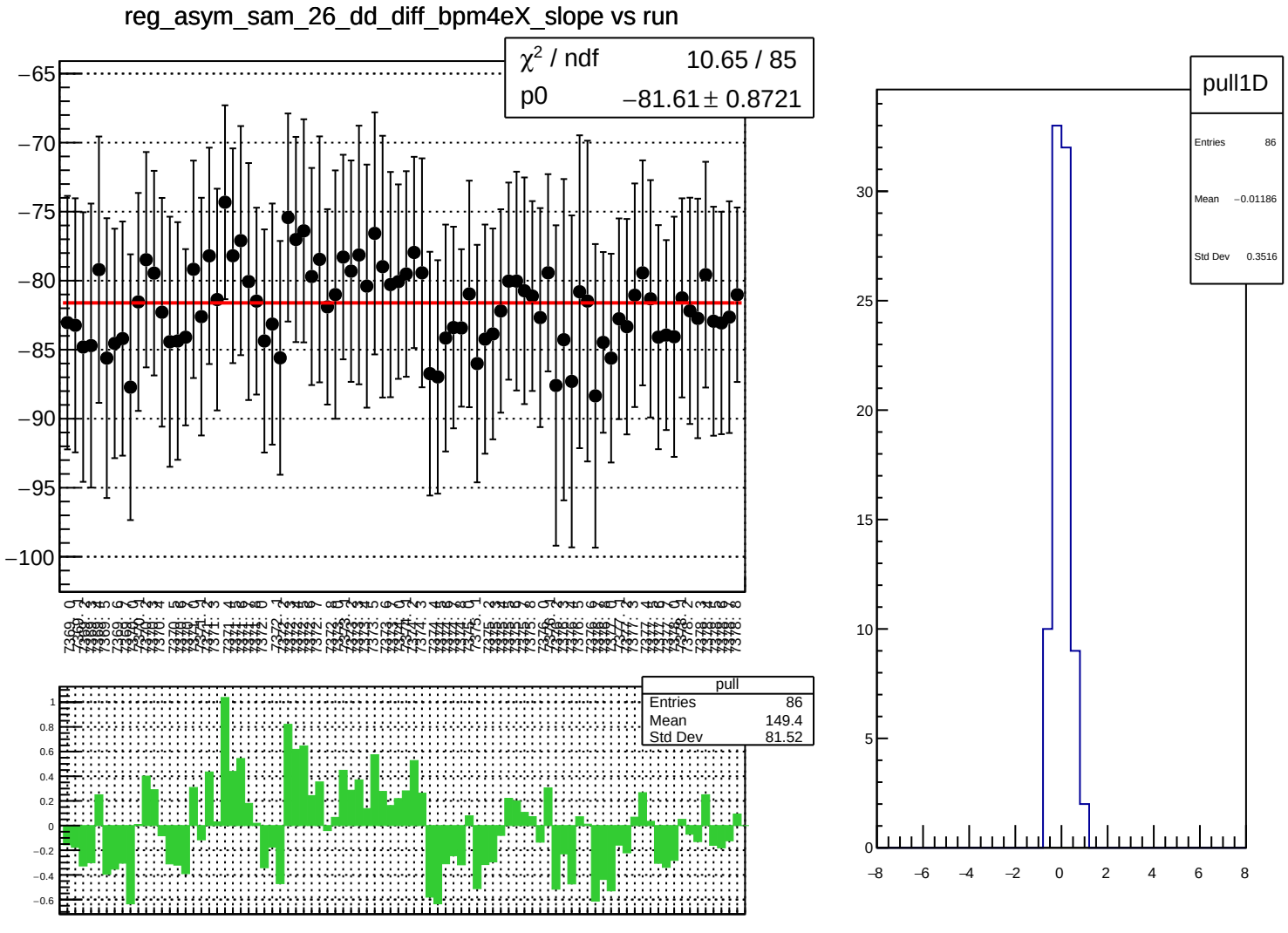

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 125.1 / 85
p0 −27.77 ± 0.2522
pull
Entries 86
Mean 25.11
Std Dev 56.18
pull1D
Entries 86
Mean −0.03168
Std Dev 1.206

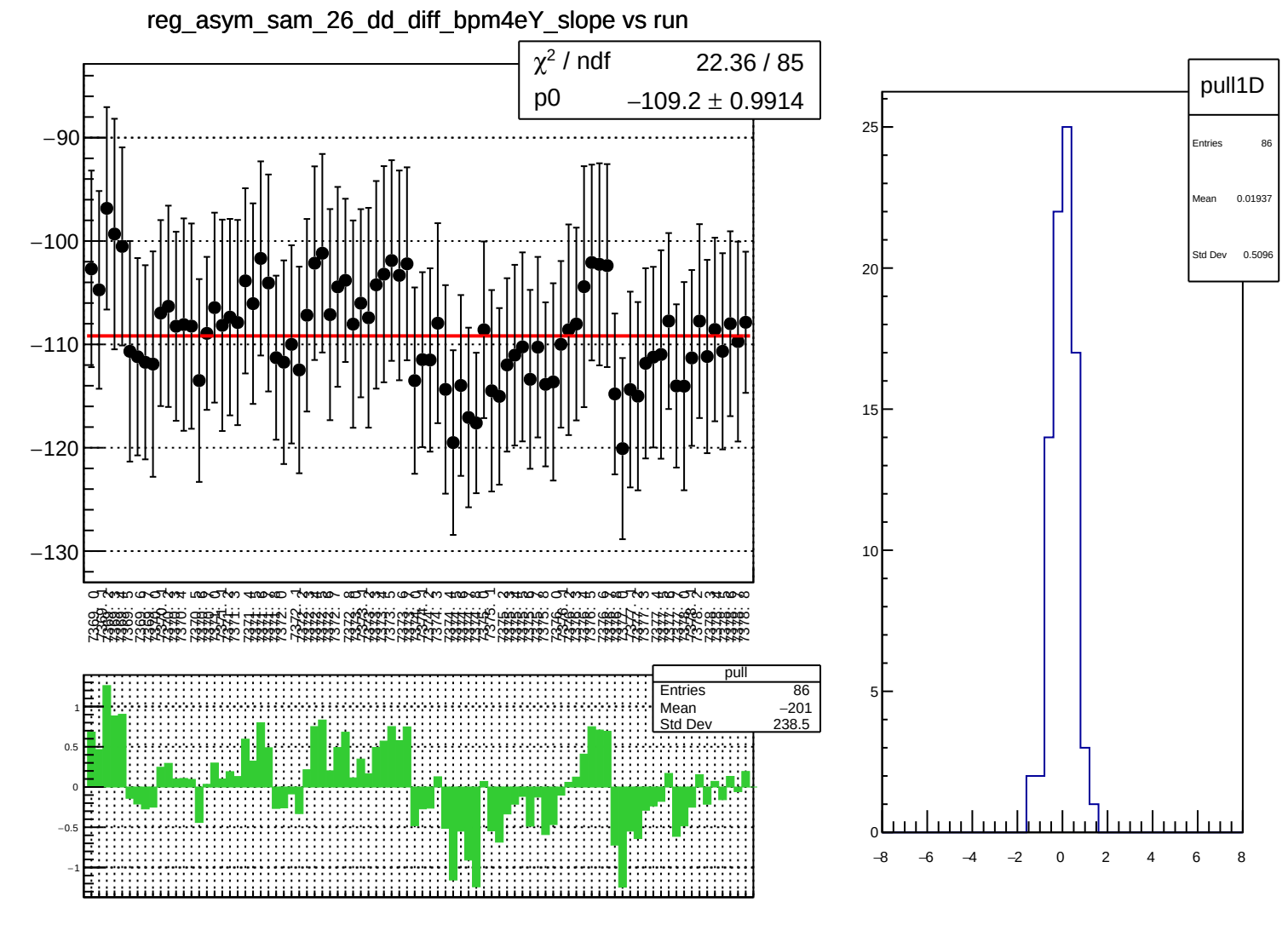

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 21.38 / 85
p0 0.5268 ± 0.01163
pull
Entries 86
Mean −3978
Std Dev 4026
pull1D
Entries 86
Mean −0.001327
Std Dev 0.4986

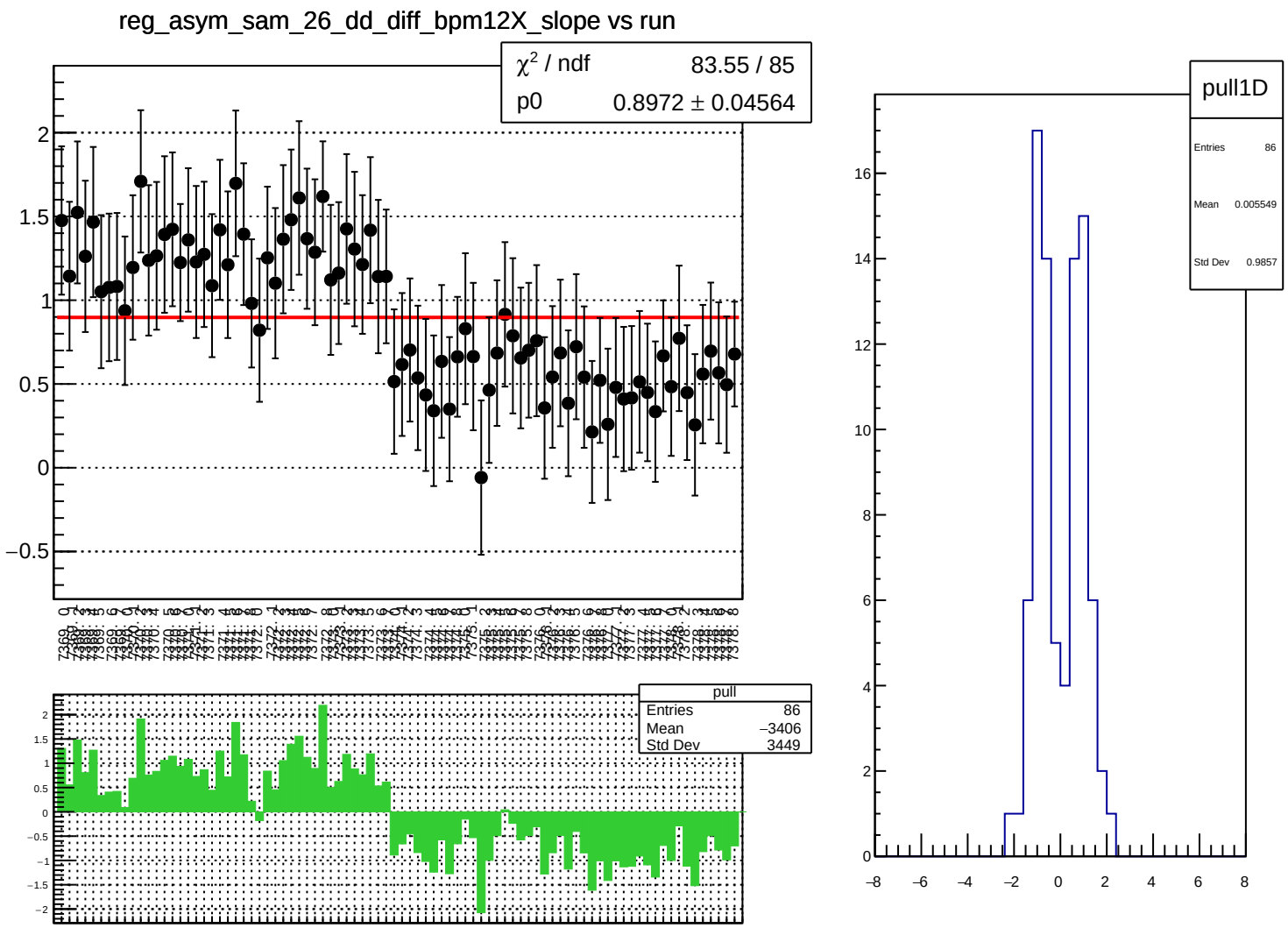

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 11.48 / 85
p0 −38.63 ± 0.8389
pull
Entries 86
Mean 82.29
Std Dev 51.04
pull1D
Entries 86
Mean 0.01605
Std Dev 0.365

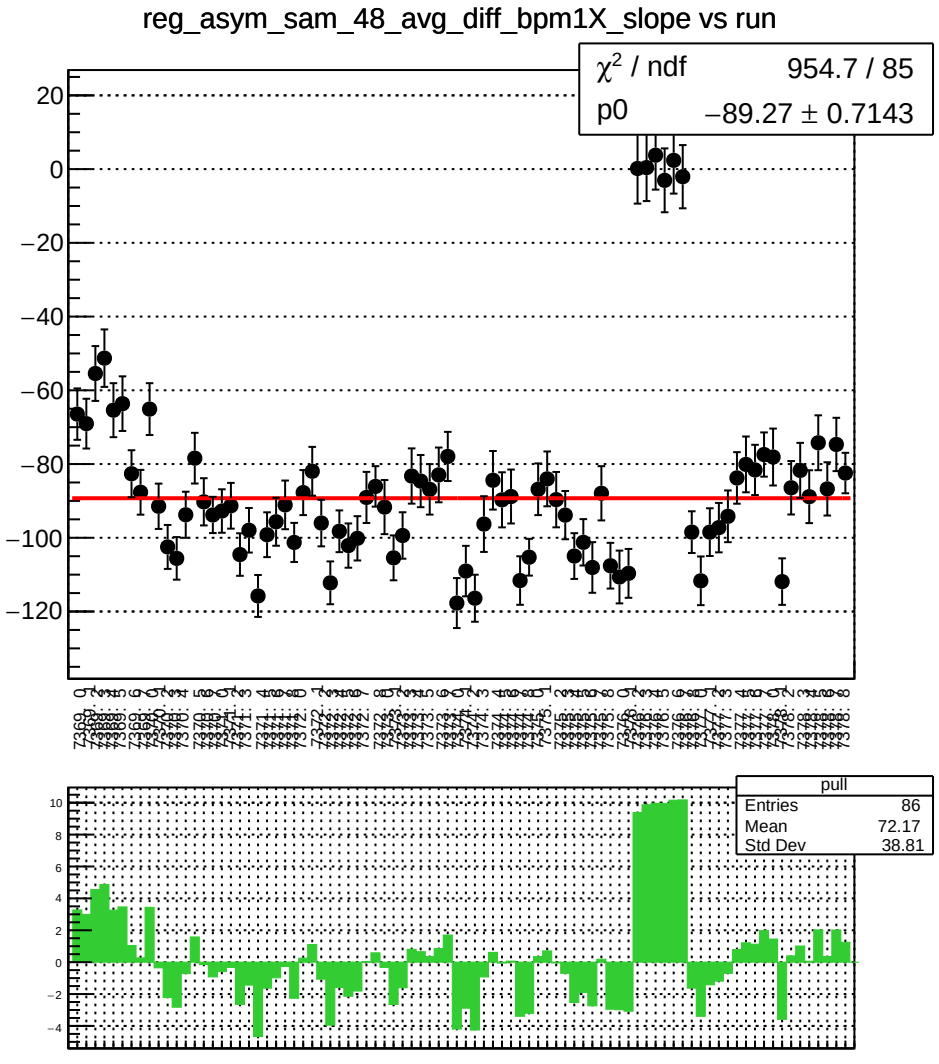

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.77 / 85
p0 −32.5 ± 0.9283
pull
Entries 86
Mean −105.8
Std Dev 142.9

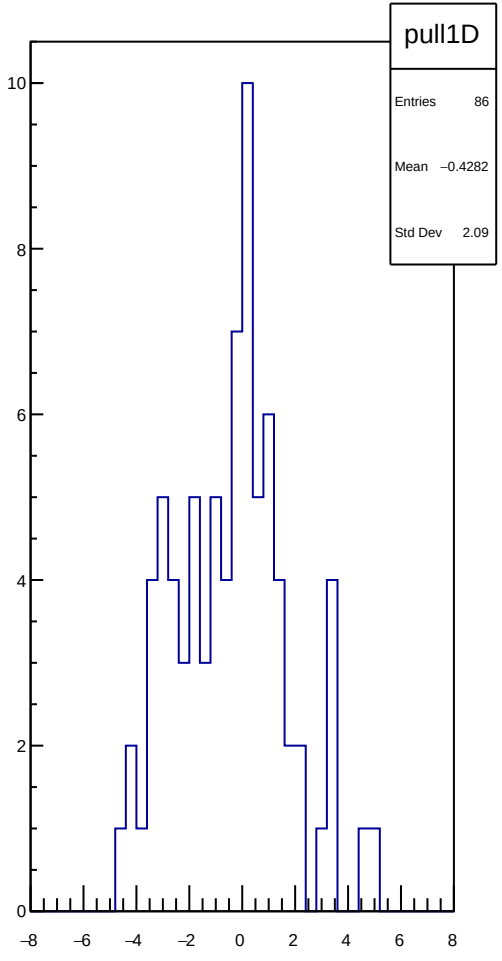

pull1D
Entries 86
Mean −0.01651
Std Dev 0.3998

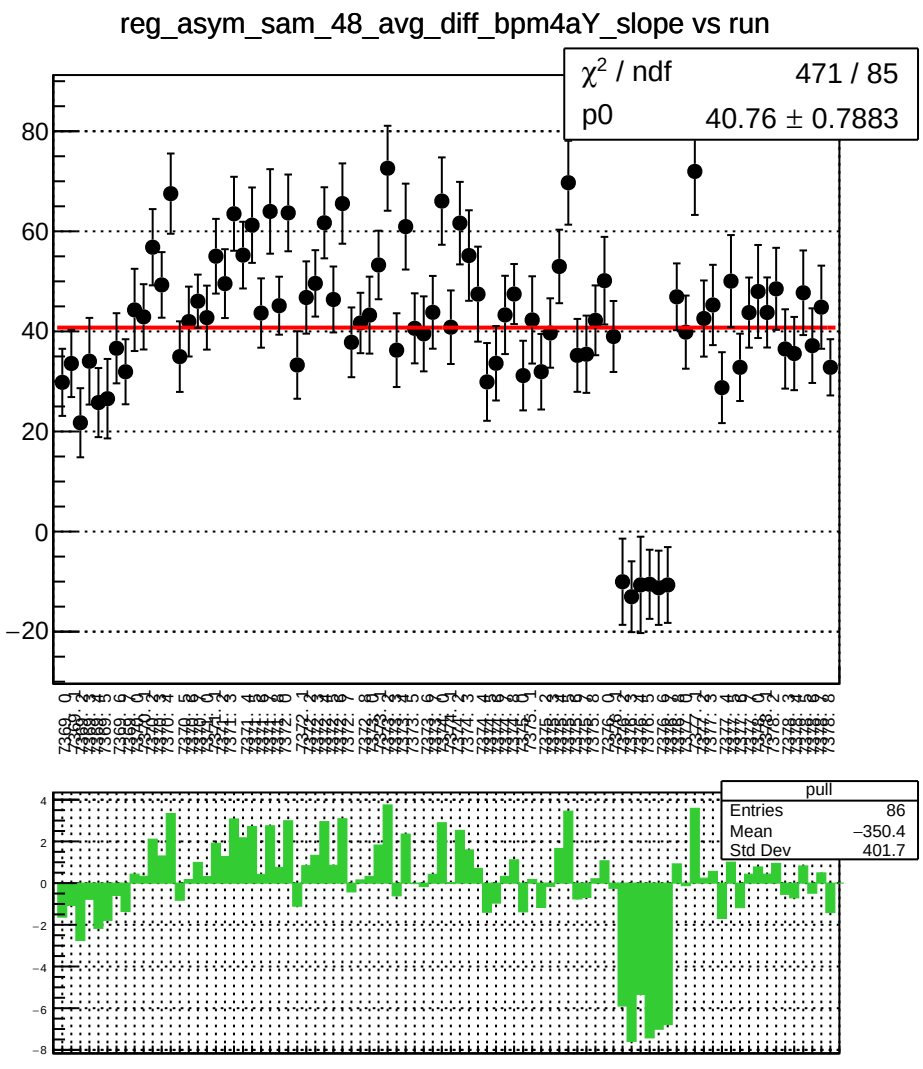

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.65 / 85
p0 −81.61 ± 0.8721
pull
Entries 86
Mean 149.4
Std Dev 81.52
pull1D
Entries 86
Mean −0.01186
Std Dev 0.3516

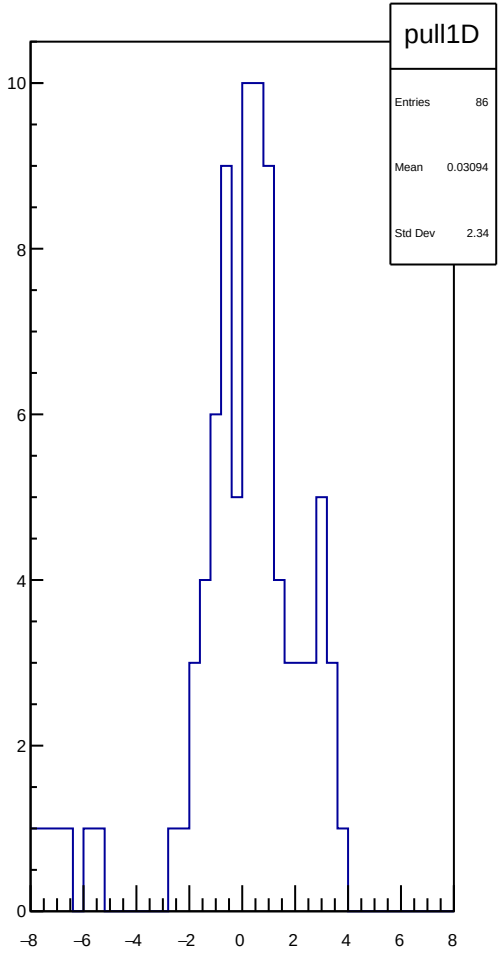

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.36 / 85
p0 −109.2 ± 0.9914
−90
−100
−110
−120
−130
pull
Entries 86
Mean −201
Std Dev 238.5
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean 0.01937
Std Dev 0.5096
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

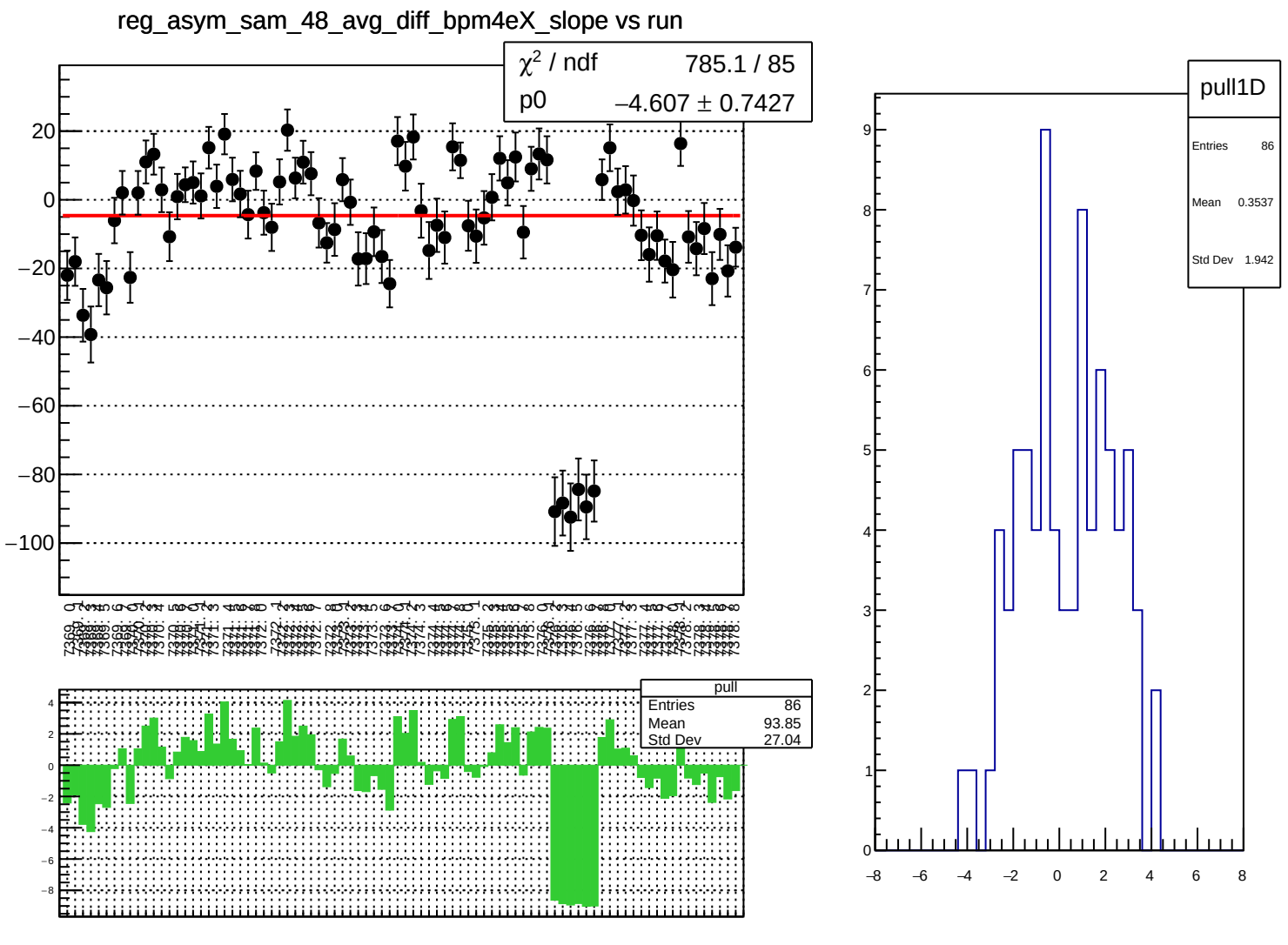

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 83.55 / 85
p0 0.8972 ± 0.04564
pull
Entries 86
Mean −3406
Std Dev 3449
pull1D
Entries 86
Mean 0.005549
Std Dev 0.9857

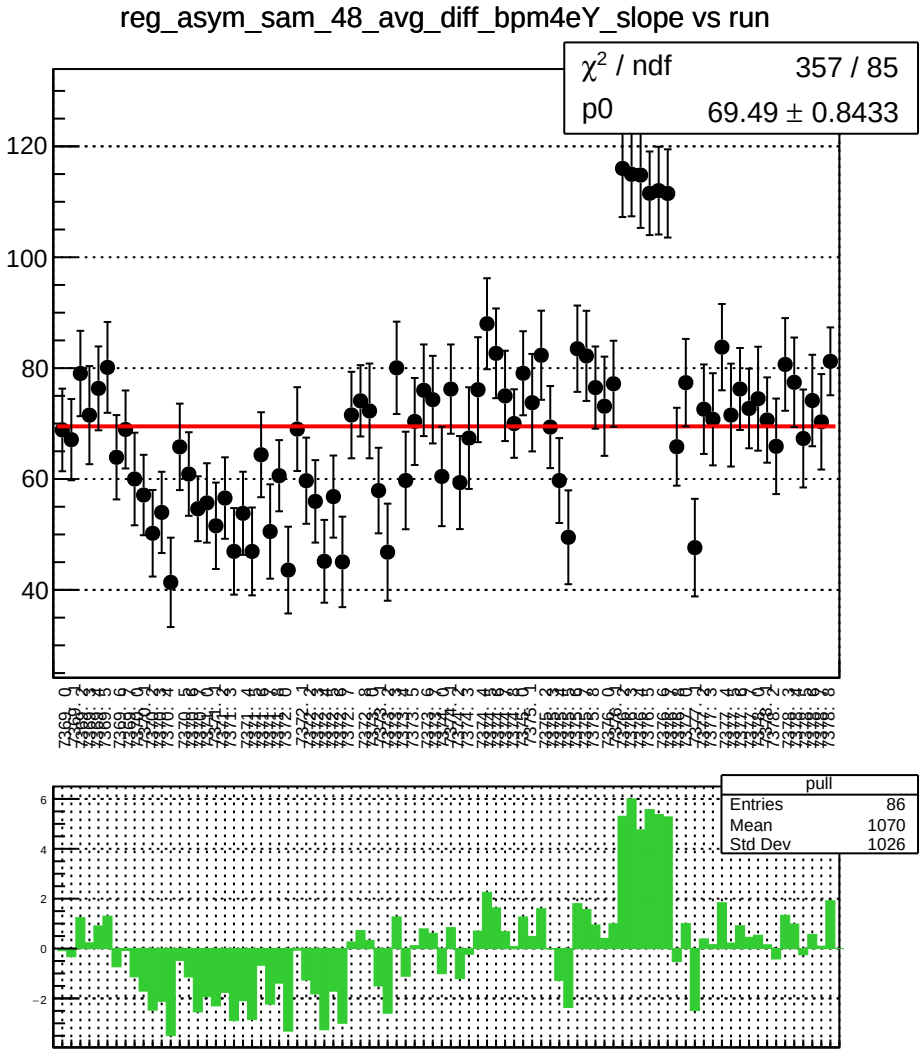

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 954.7 / 85
p0 −89.27 ± 0.7143
pull
Entries 86
Mean 72.17
Std Dev 38.81

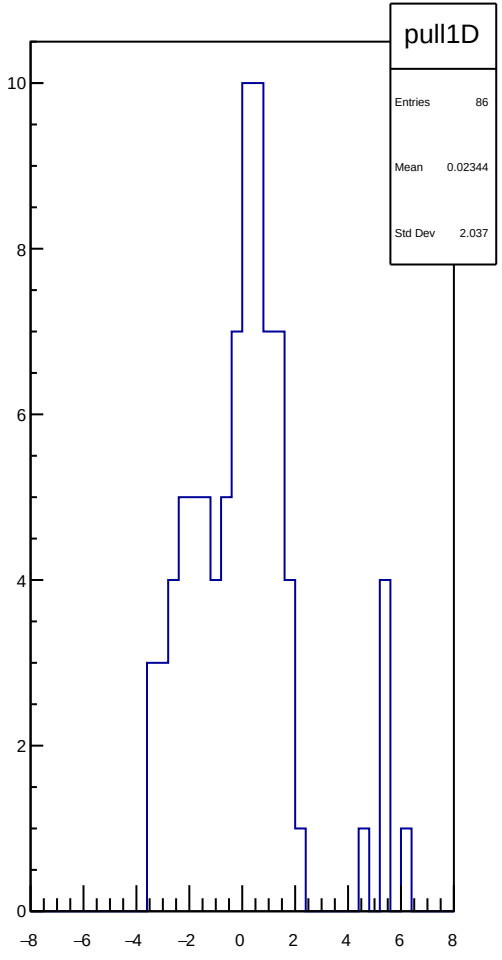

pull1D
Entries 86
Mean −0.4282
Std Dev 2.09

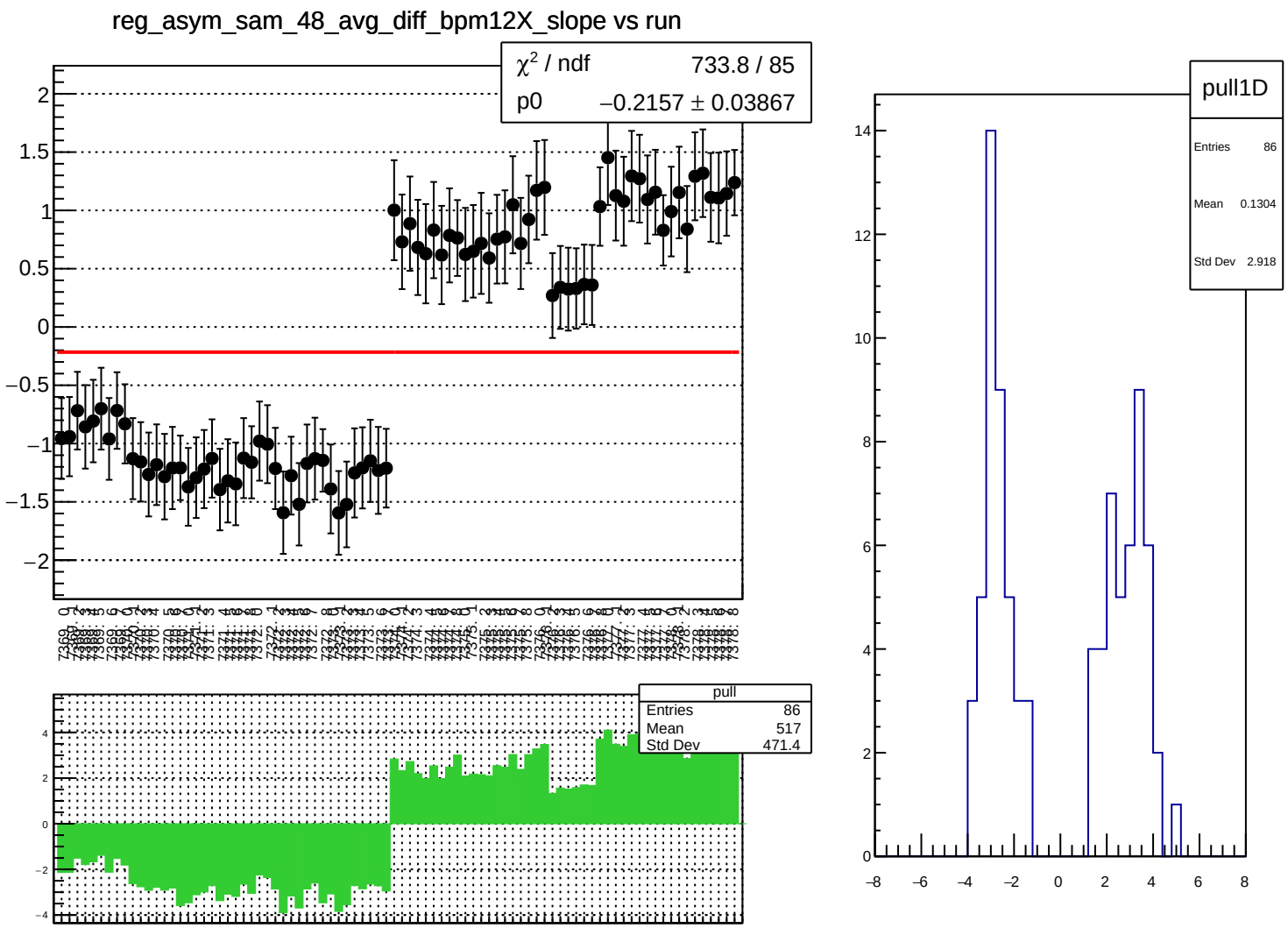

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 471 / 85
p0 40.76 ± 0.7883
pull
Entries 86
Mean −350.4
Std Dev 401.7

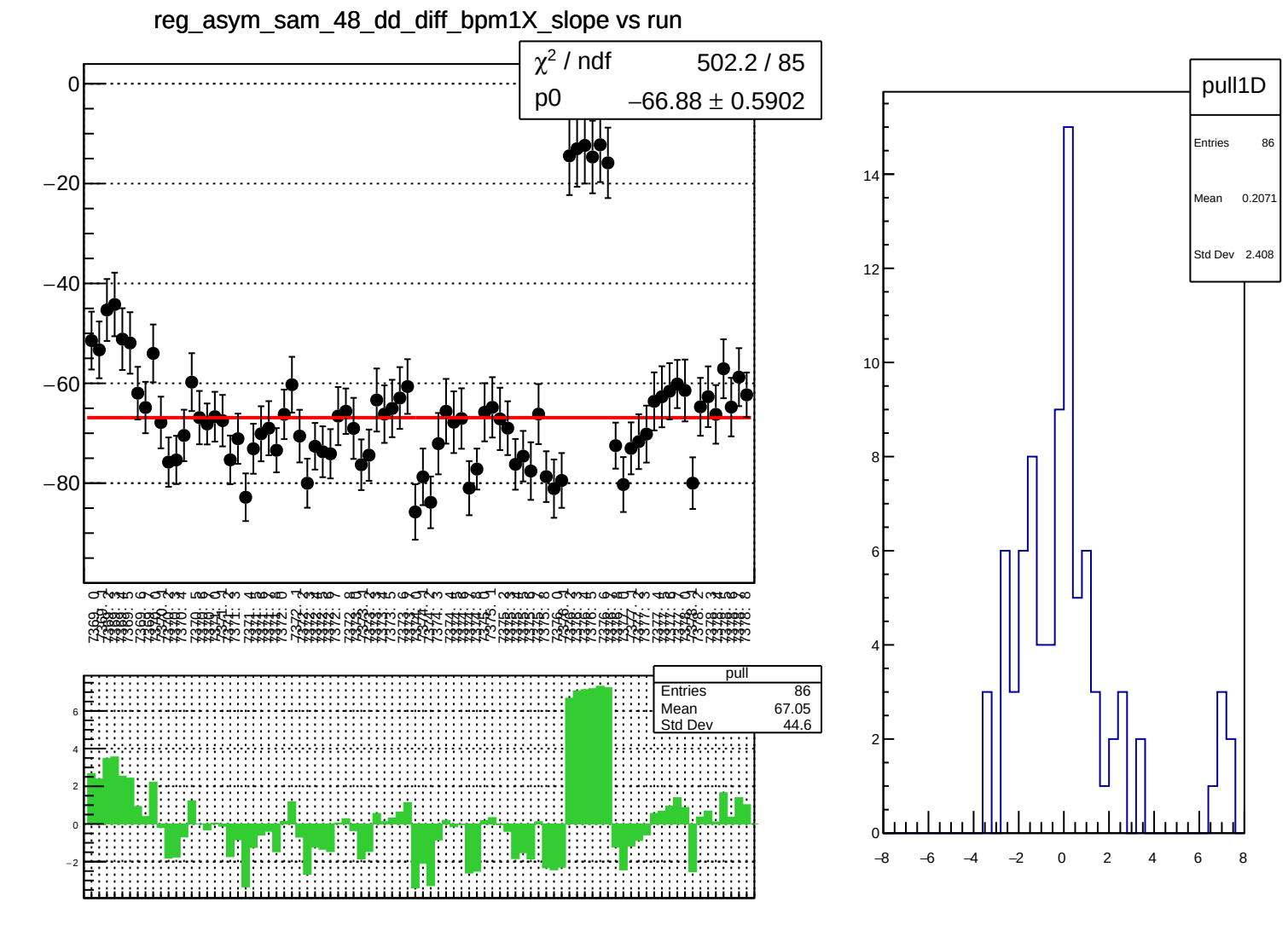

pull1D
Entries 86
Mean 0.03094
Std Dev 2.34

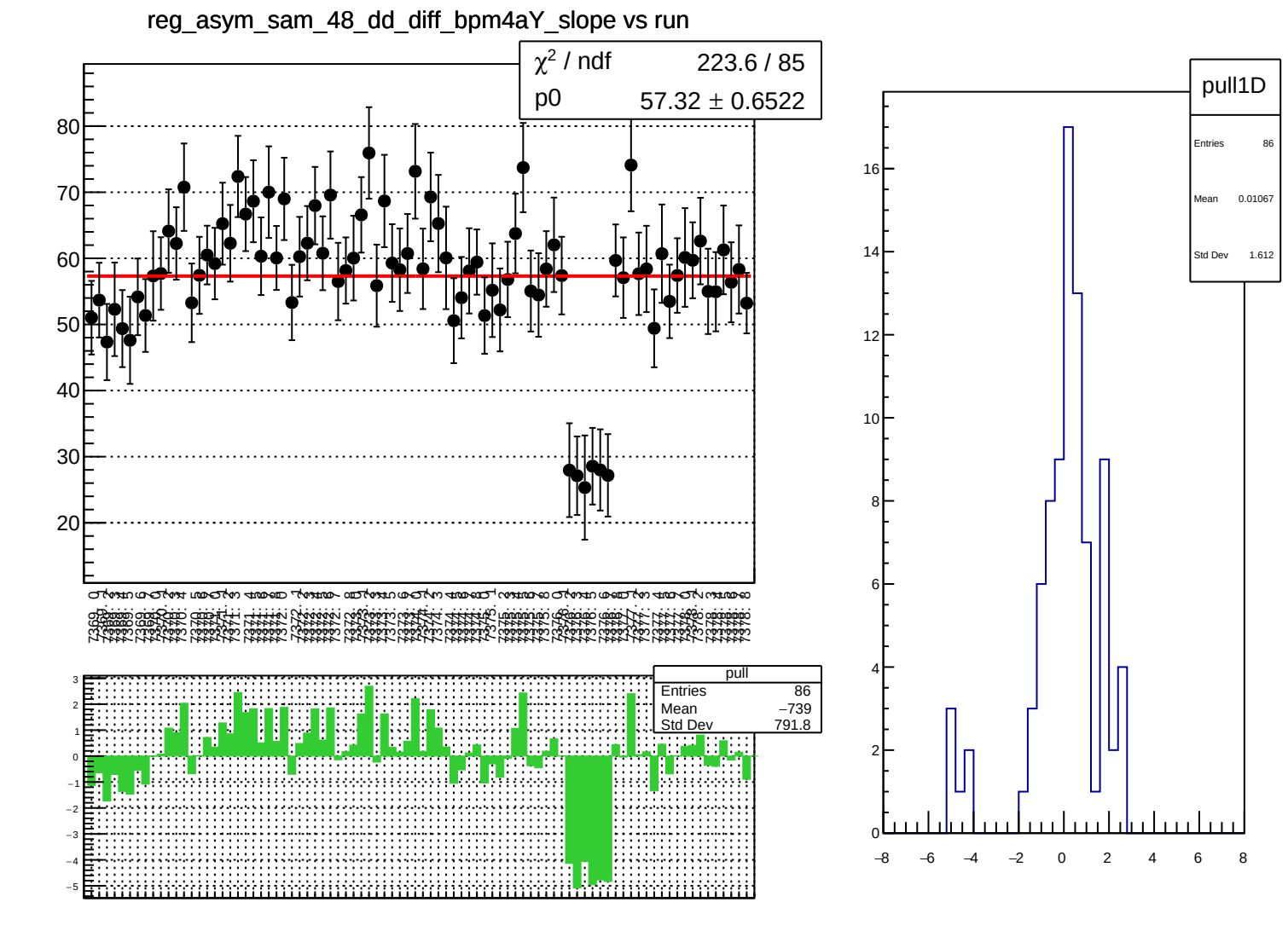

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 785.1 / 85
p0 −4.607 ± 0.7427
pull
Entries 86
Mean 93.85
Std Dev 27.04
pull1D
Entries 86
Mean 0.3537
Std Dev 1.942

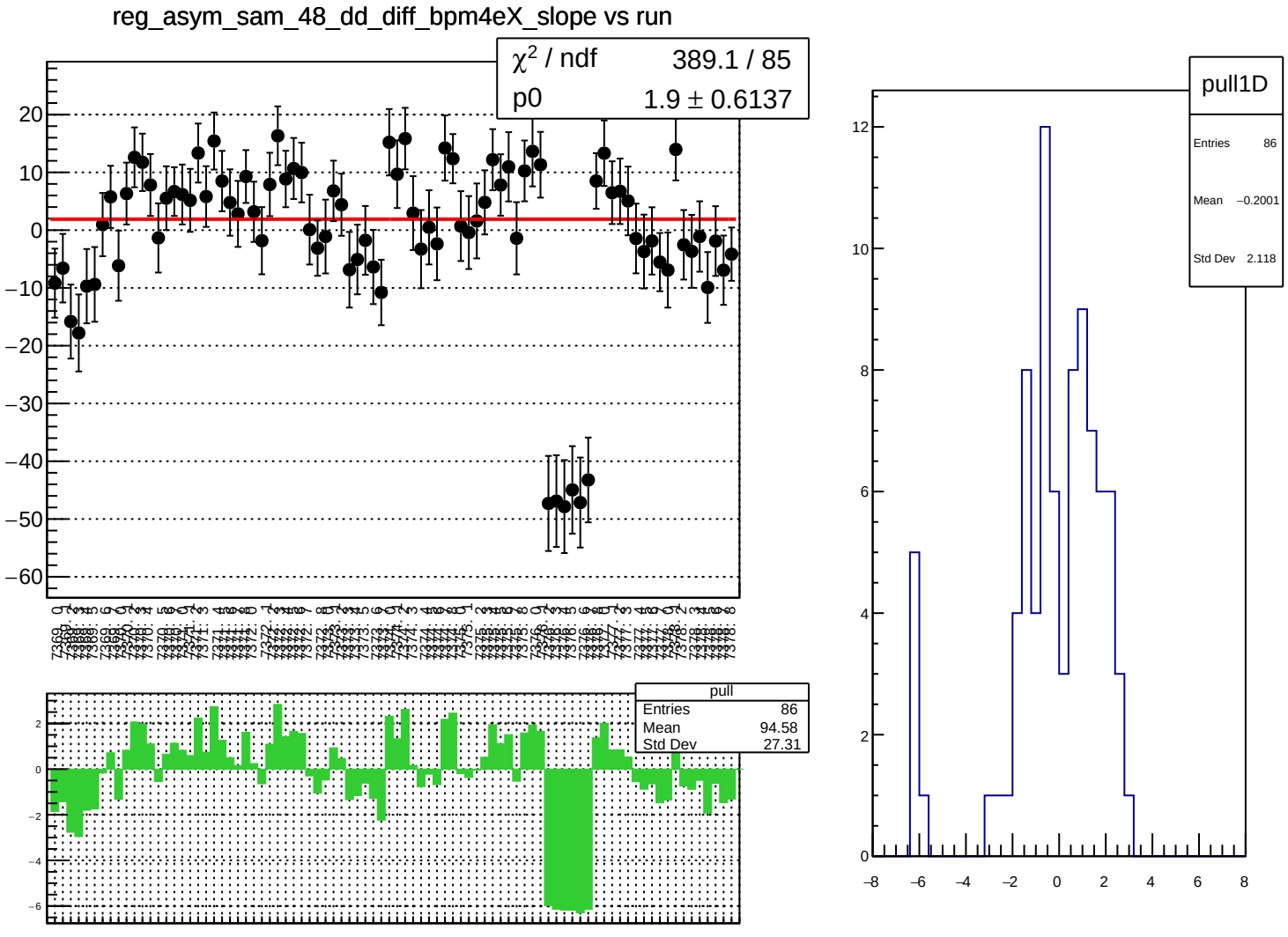

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 357 / 85
p0 69.49 ± 0.8433
pull
Entries 86
Mean 1070
Std Dev 1026

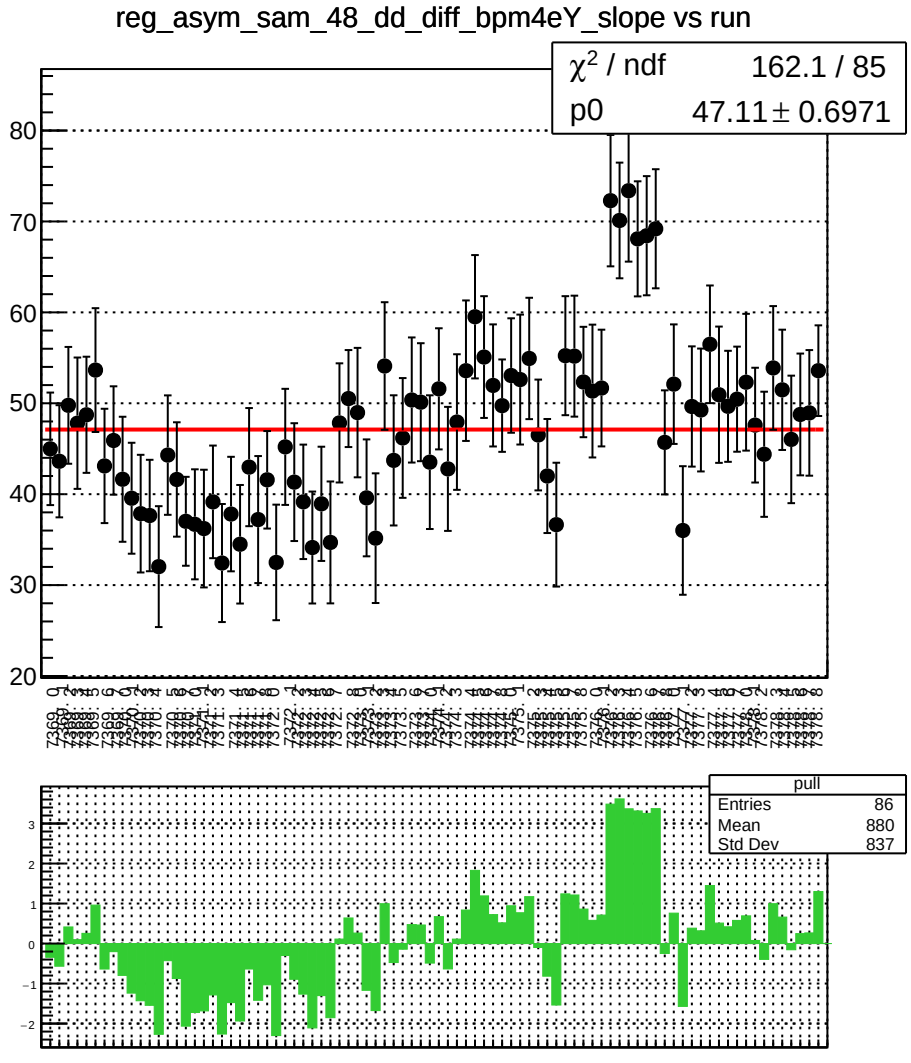

pull1D
Entries 86
Mean 0.02344
Std Dev 2.037

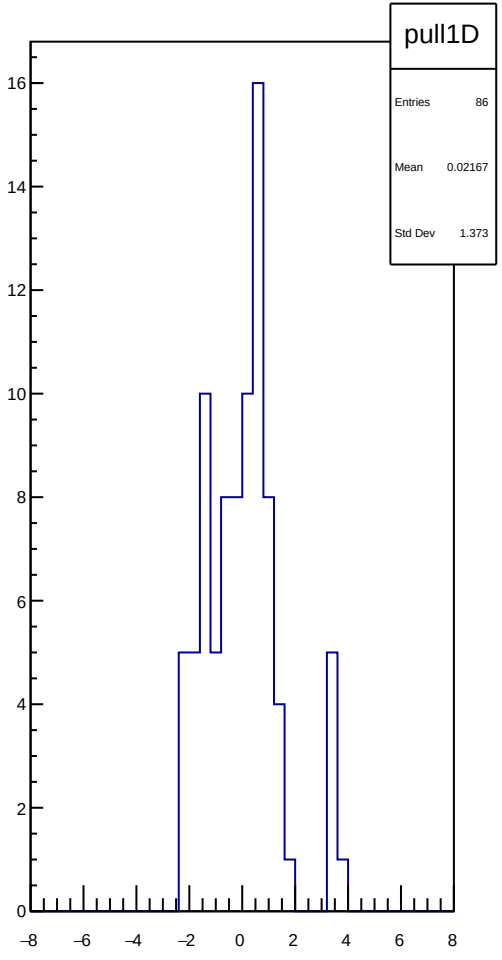

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 733.8 / 85
p0 −0.2157 ± 0.03867
pull
Entries 86
Mean 517
Std Dev 471.4
pull1D
Entries 86
Mean 0.1304
Std Dev 2.918

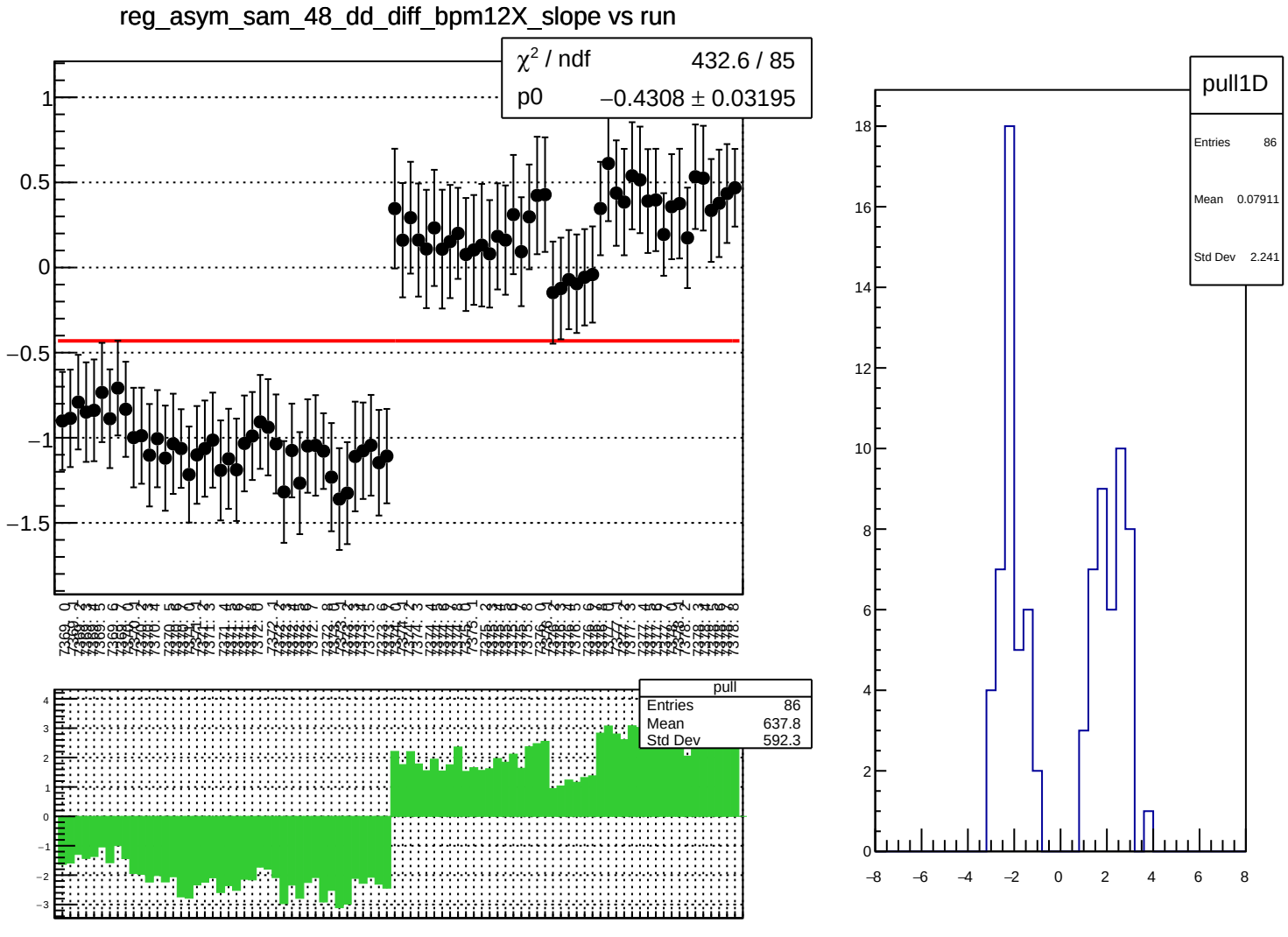

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 502.2 / 85
p0 −66.88 ± 0.5902
pull
Entries 86
Mean 67.05
Std Dev 44.6
pull1D
Entries 86
Mean 0.2071
Std Dev 2.408

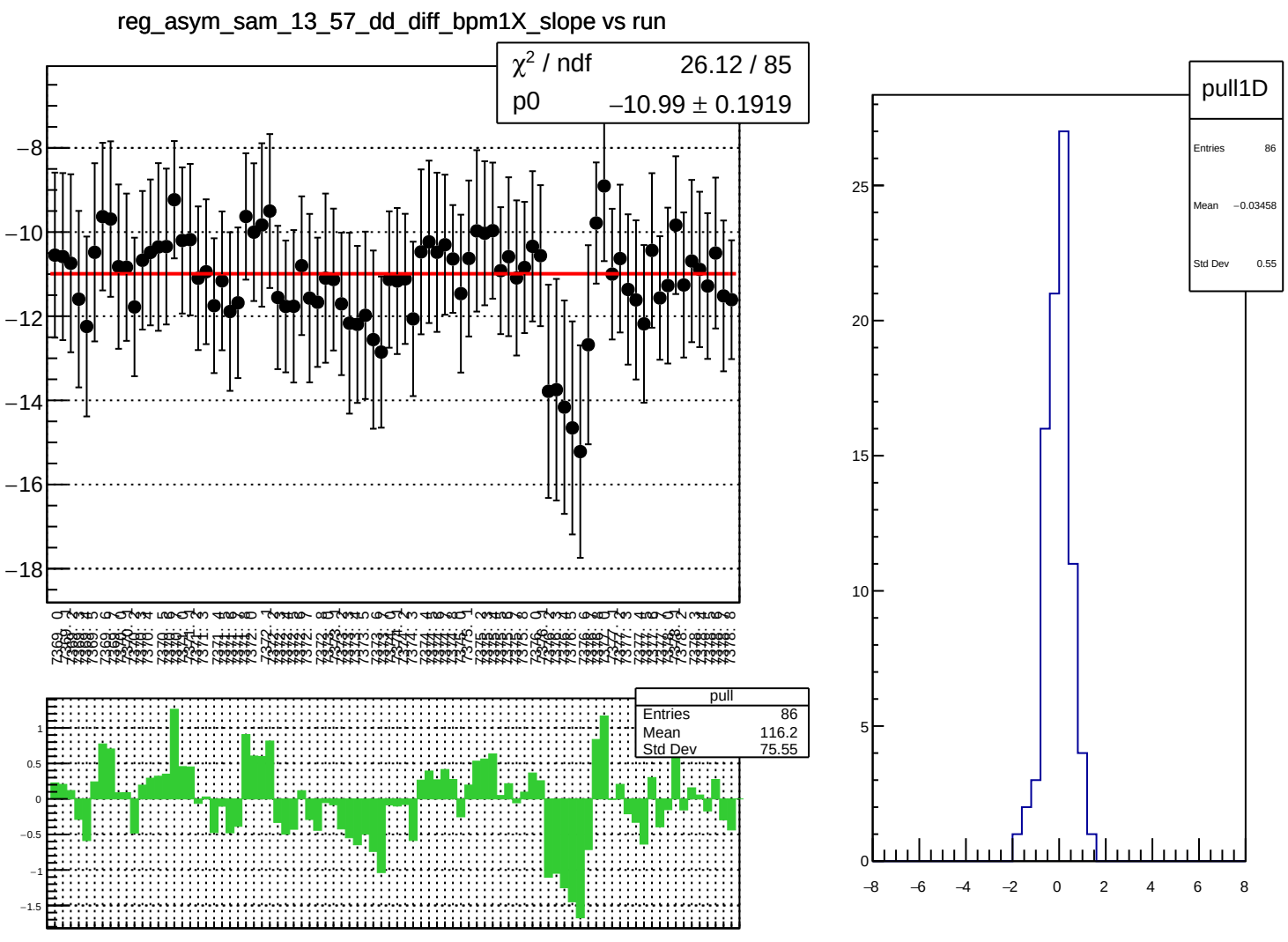

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 223.6 / 85
p0 57.32 ± 0.6522
pull
Entries 86
Mean −739
Std Dev 791.8
pull1D
Entries 86
Mean 0.01067
Std Dev 1.612

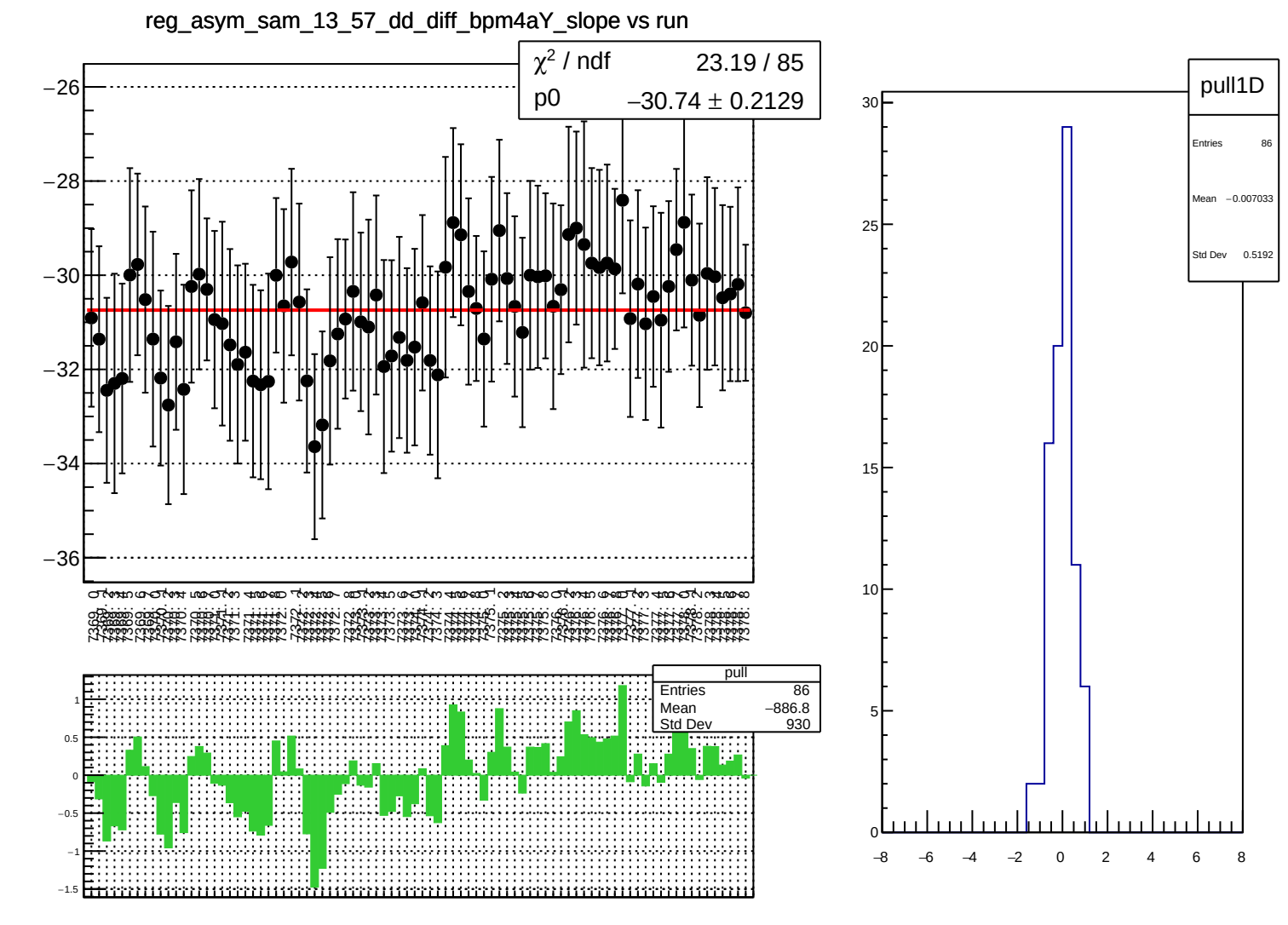

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 389.1 / 85
p0 1.9 ± 0.6137
pull
Entries 86
Mean 94.58
Std Dev 27.31
pull1D
Entries 86
Mean −0.2001
Std Dev 2.118

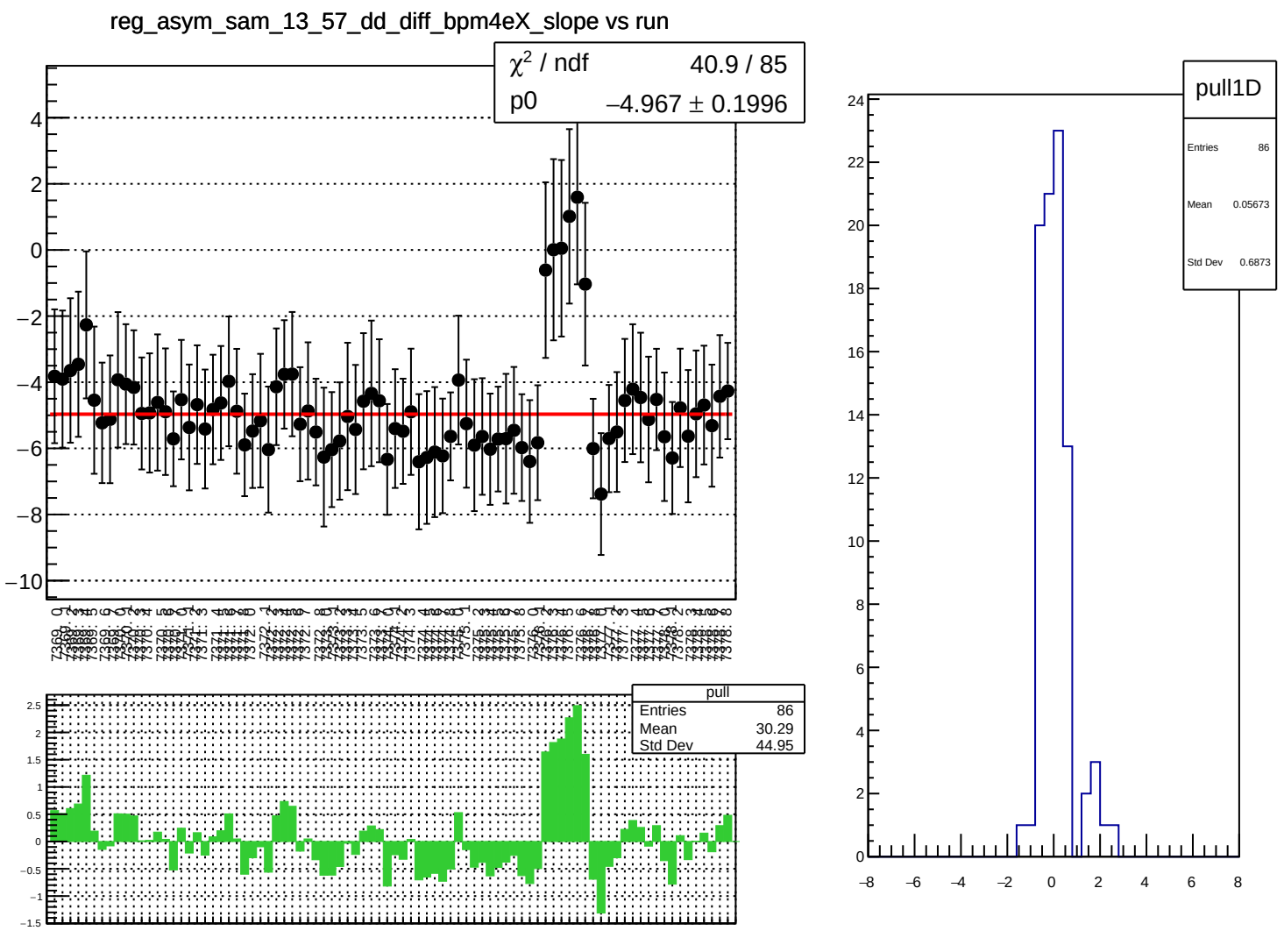

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 162.1 / 85
p0 47.11 ± 0.6971
pull
Entries 86
Mean 880
Std Dev 837

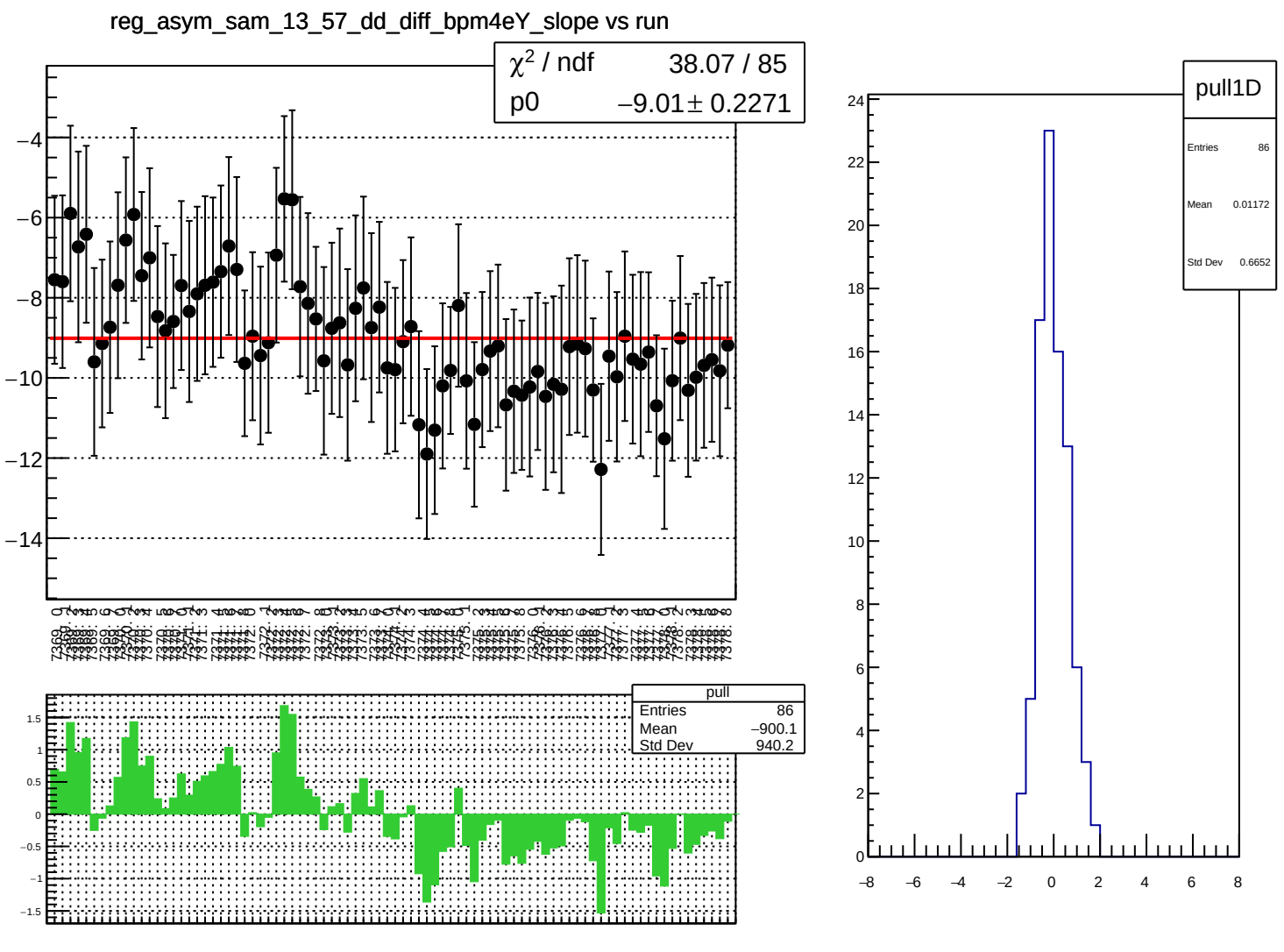

pull1D
Entries 86
Mean 0.02167
Std Dev 1.373

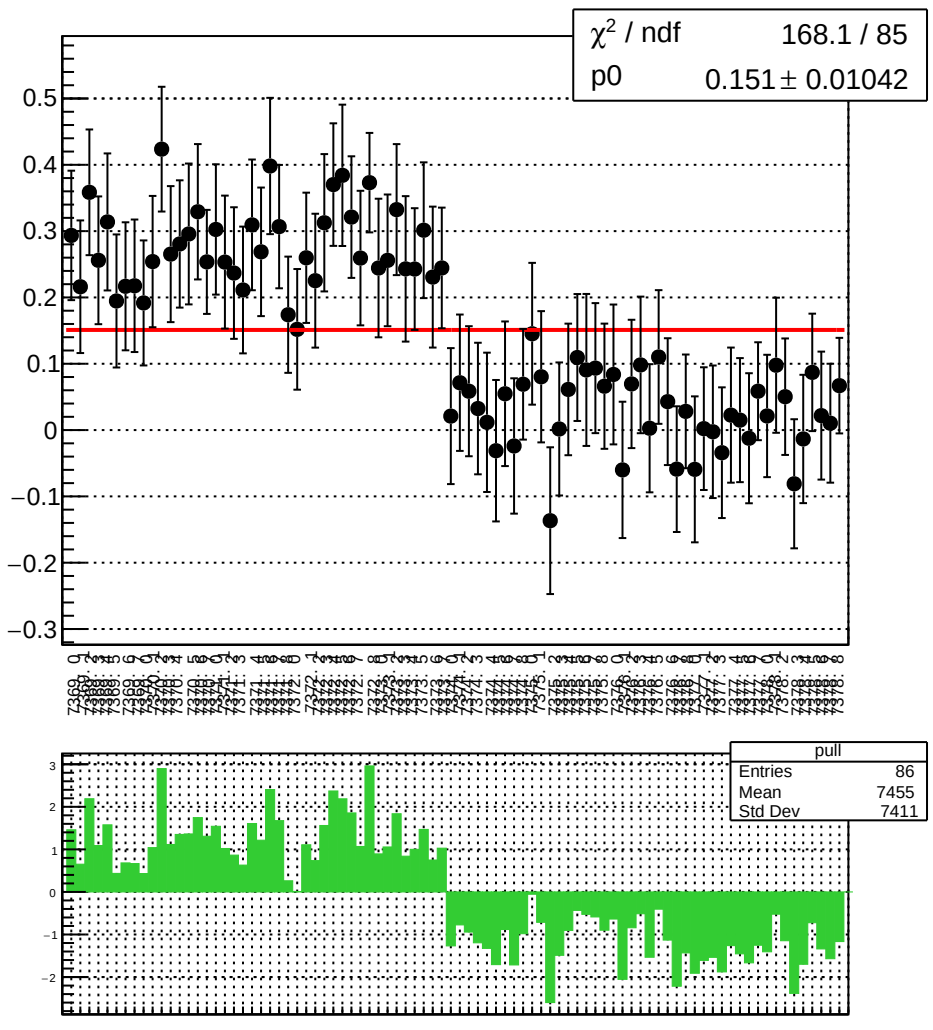

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 432.6 / 85
p0 −0.4308 ± 0.03195
pull
Entries 86
Mean 637.8
Std Dev 592.3
pull1D
Entries 86
Mean 0.07911
Std Dev 2.241

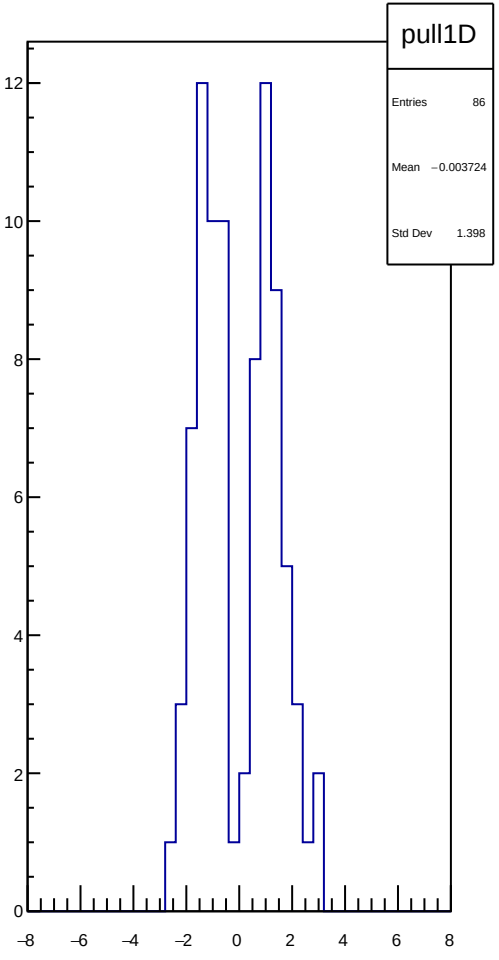

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 26.12 / 85
p0 −10.99 ± 0.1919
pull
Entries 86
Mean 116.2
Std Dev 75.55
pull1D
Entries 86
Mean −0.03458
Std Dev 0.55

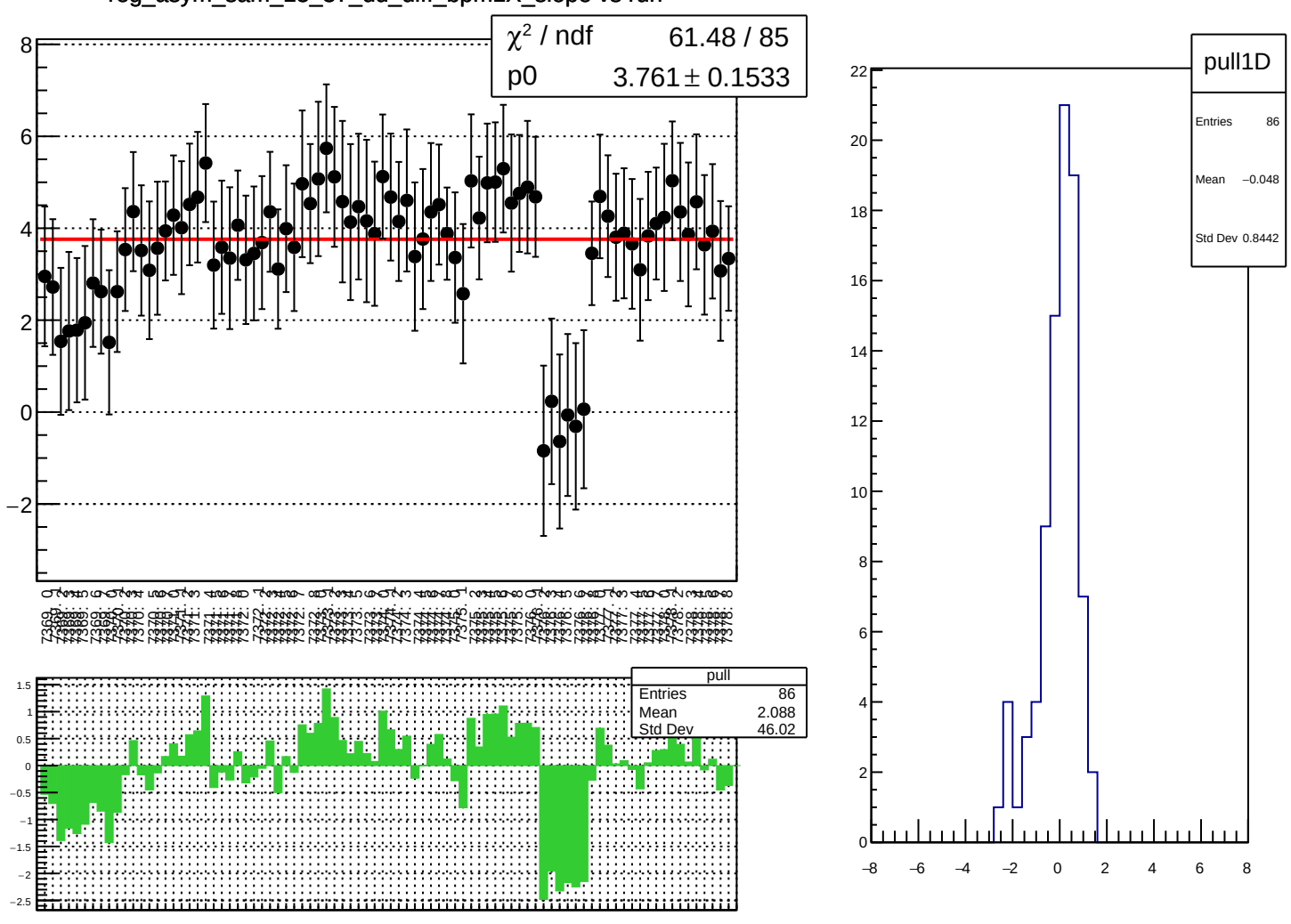

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.19 / 85
p0 −30.74 ± 0.2129
pull
Entries 86
Mean −886.8
Std Dev 930
pull1D
Entries 86
Mean −0.007033
Std Dev 0.5192

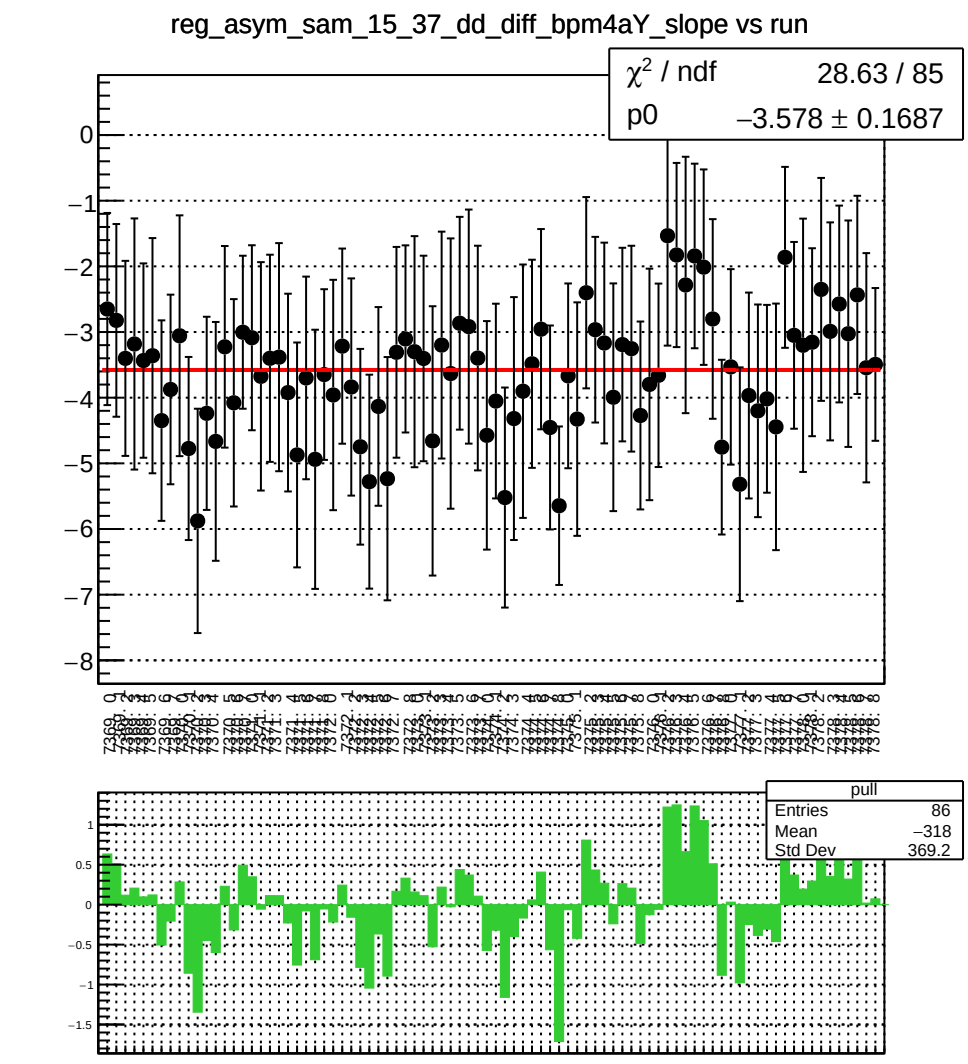

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.9 / 85
p0 −4.967 ± 0.1996
pull
Entries 86
Mean 30.29
Std Dev 44.95
pull1D
Entries 86
Mean 0.05673
Std Dev 0.6873

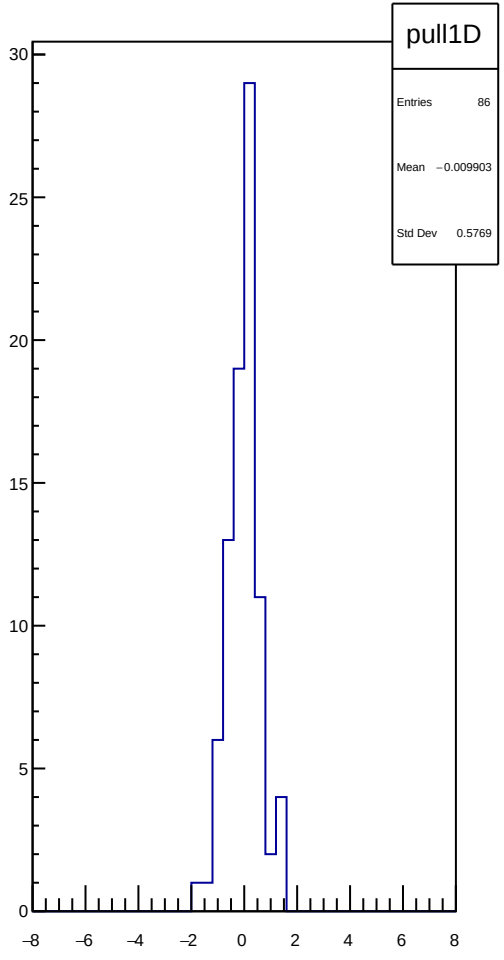

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.07 / 85
p0 −9.01 ± 0.2271
pull
Entries 86
Mean −900.1
Std Dev 940.2
pull1D
Entries 86
Mean 0.01172
Std Dev 0.6652

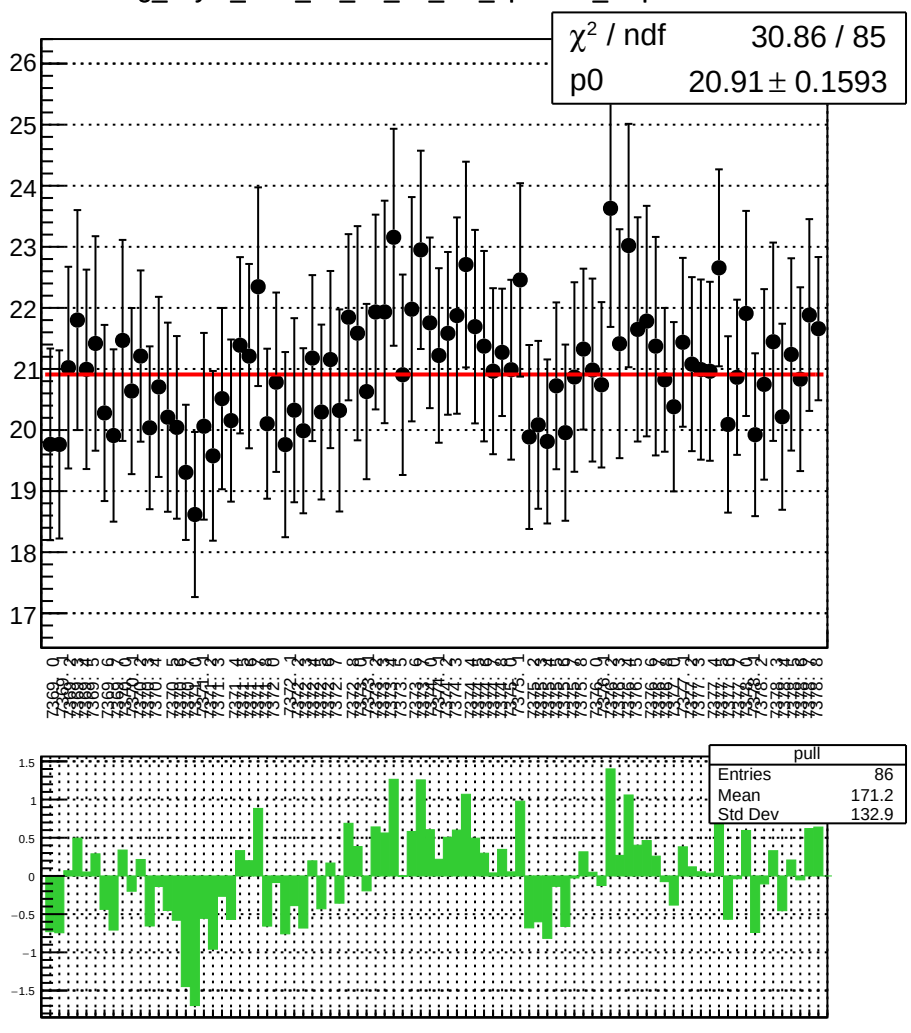

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 168.1 / 85
p0 0.151 ± 0.01042
pull
Entries 86
Mean 7455
Std Dev 7411

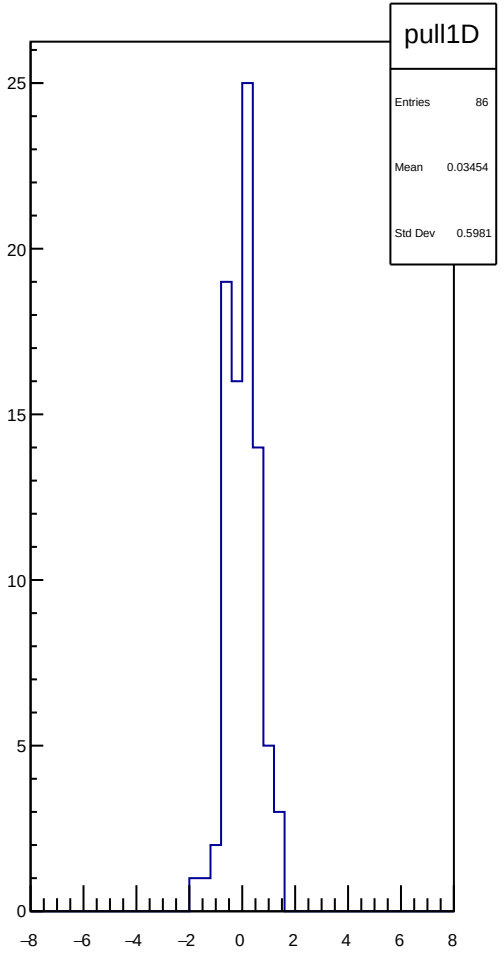

pull1D
Entries 86
Mean −0.003724
Std Dev 1.398

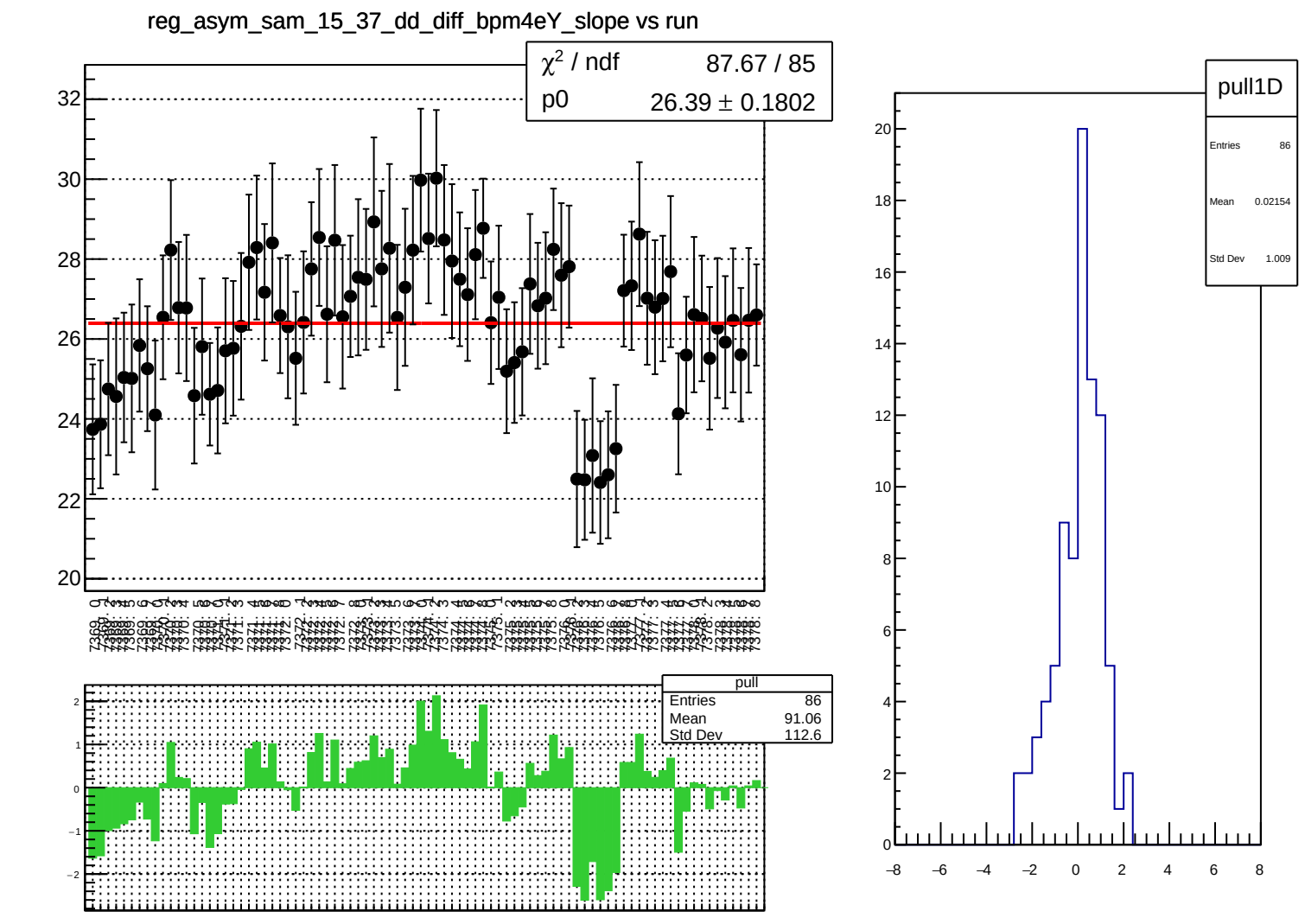

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 61.48 / 85
p0 3.761 ± 0.1533
pull
Entries 86
Mean 2.088
Std Dev 46.02
pull1D
Entries 86
Mean −0.048
Std Dev 0.8442

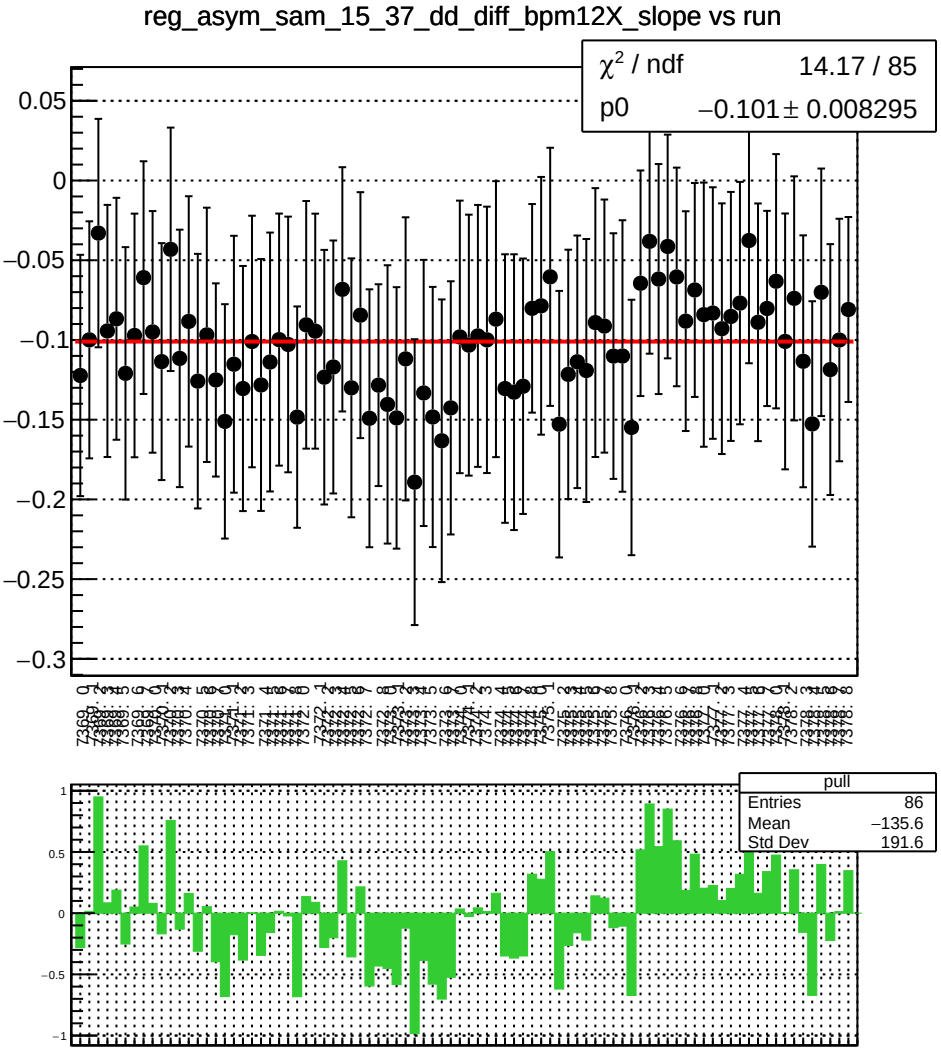

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.63 / 85
p0 −3.578 ± 0.1687
pull
Entries 86
Mean −318
Std Dev 369.2

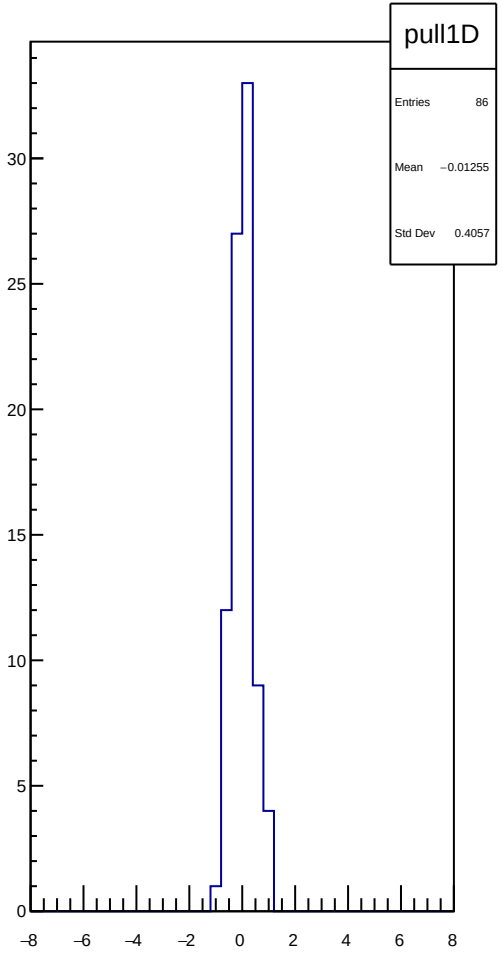

pull1D
Entries 86
Mean −0.009903
Std Dev 0.5769

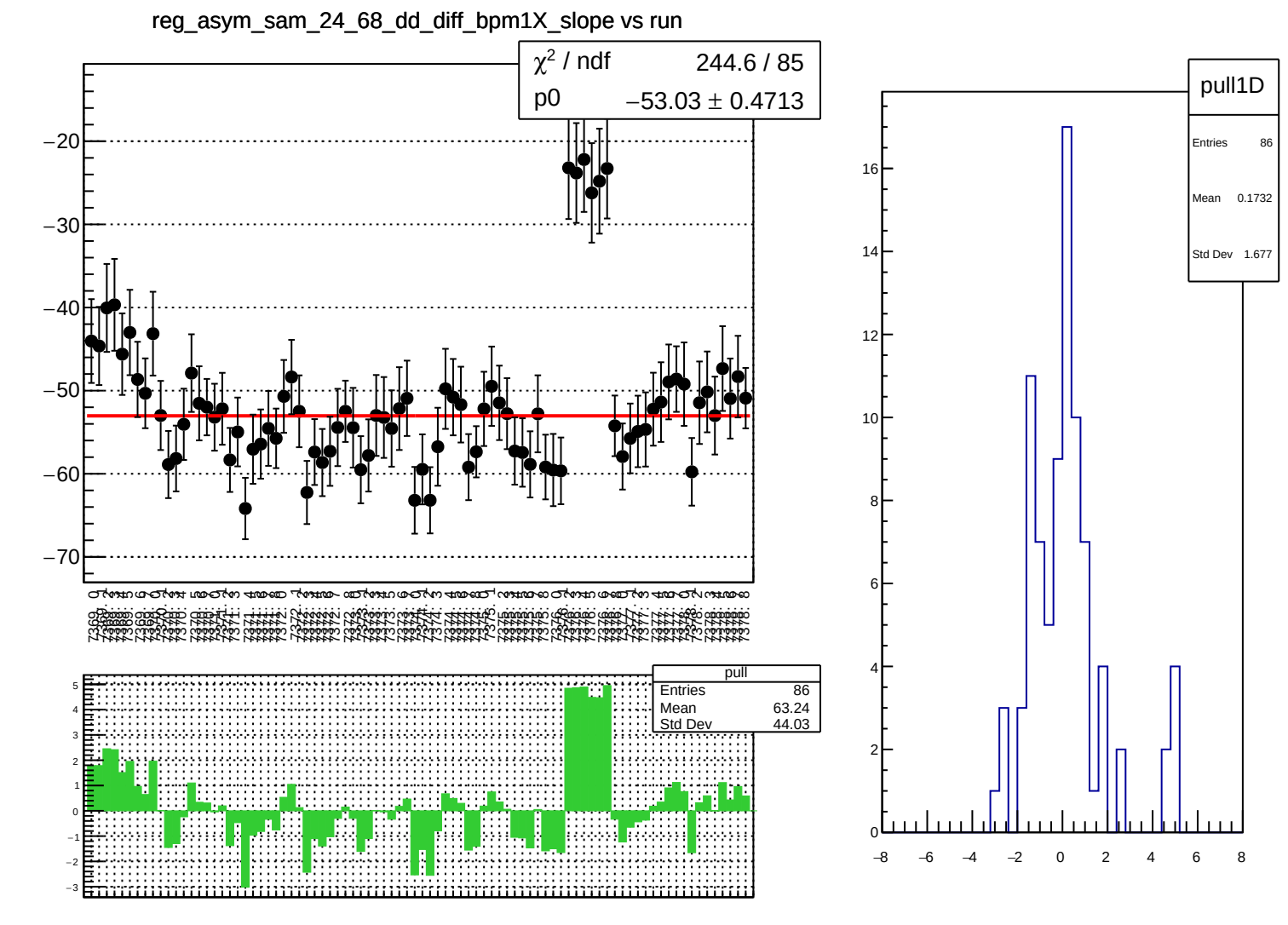

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.86 / 85
p0 20.91 ± 0.1593
pull
Entries 86
Mean 171.2
Std Dev 132.9

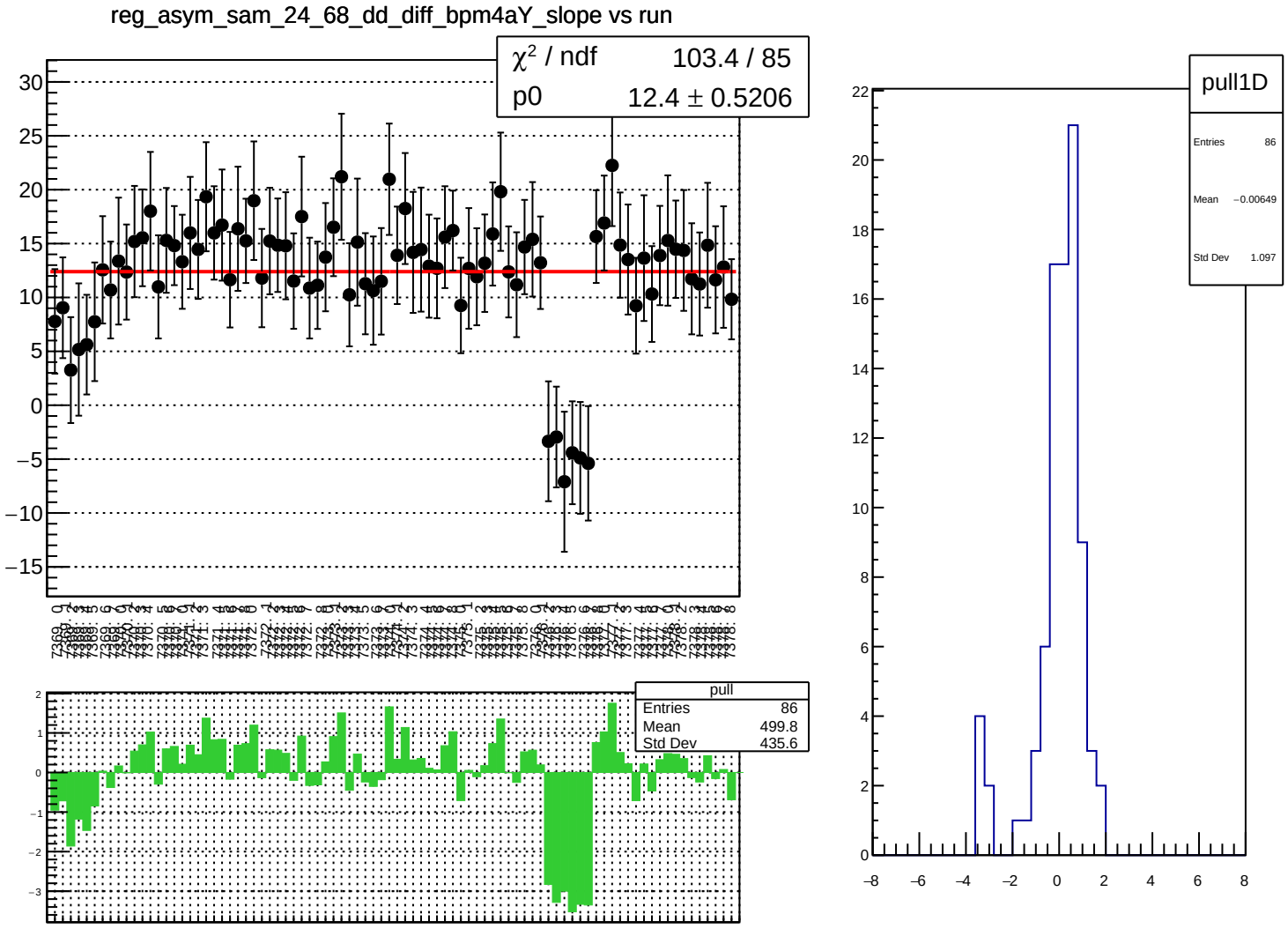

pull1D
Entries 86
Mean 0.03454
Std Dev 0.5981

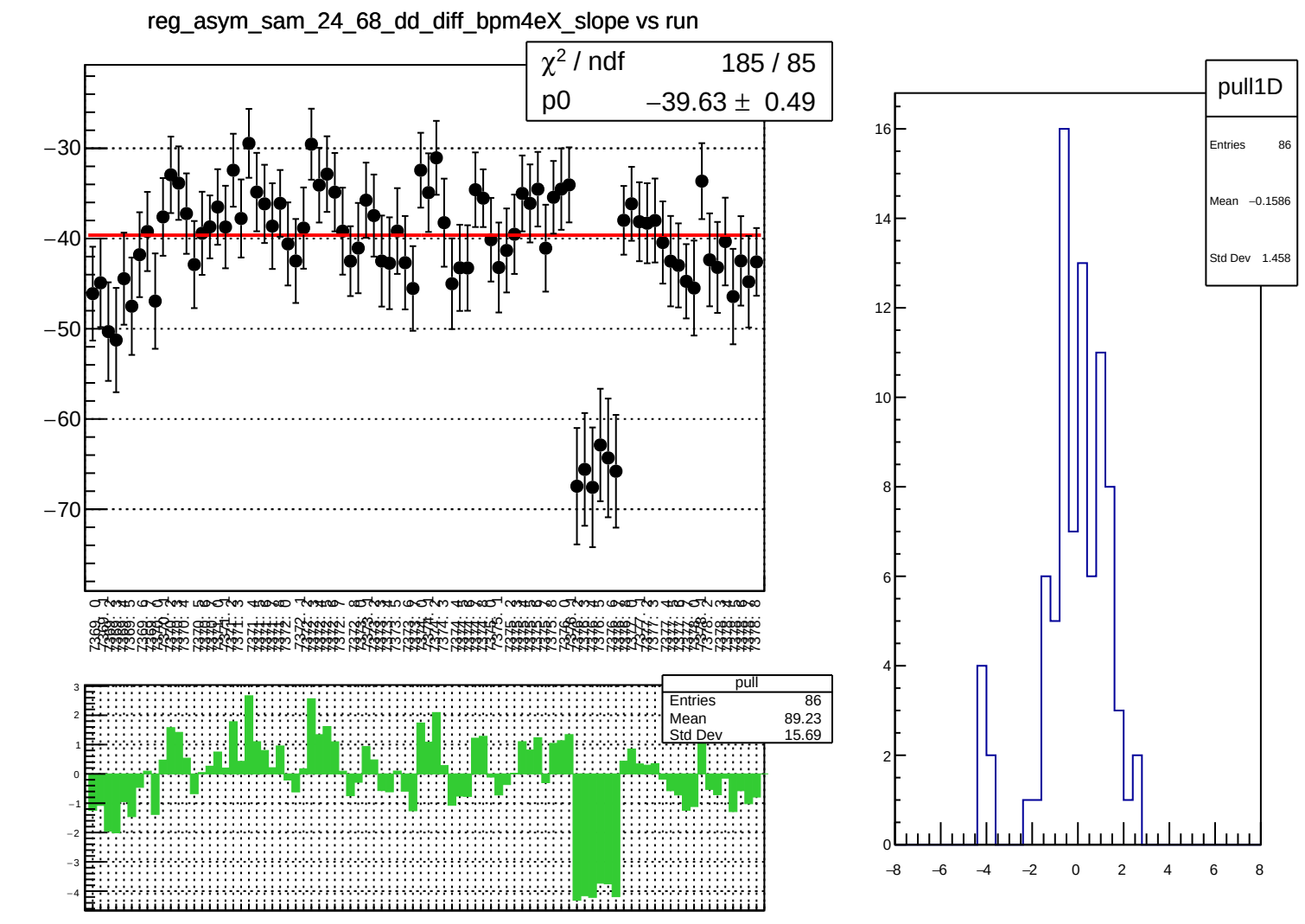

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 87.67 / 85
p0 26.39 ± 0.1802
pull
Entries 86
Mean 91.06
Std Dev 112.6
pull1D
Entries 86
Mean 0.02154
Std Dev 1.009

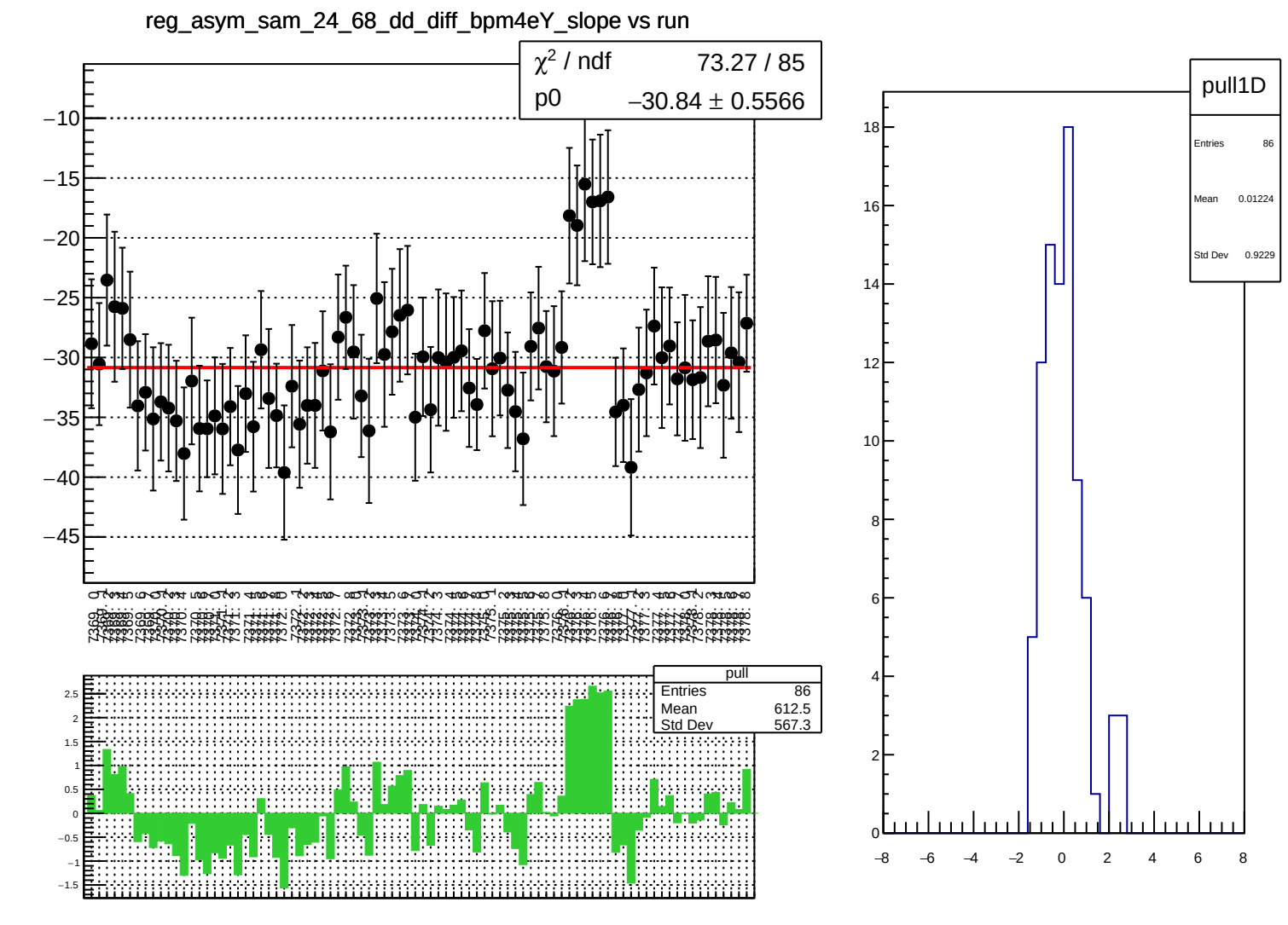

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 14.17 / 85
p0 −0.101 ± 0.008295
pull
Entries 86
Mean −135.6
Std Dev 191.6

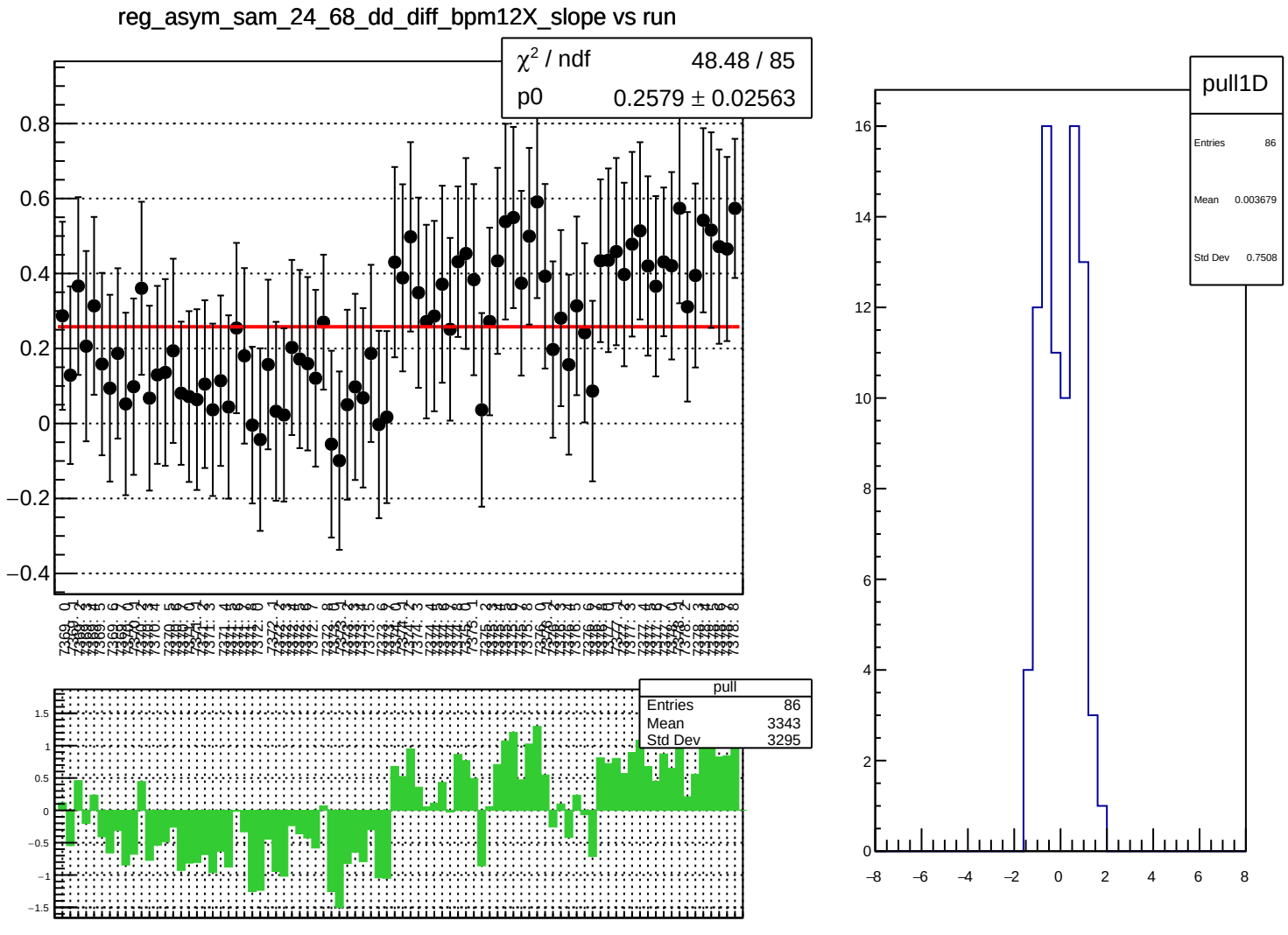

pull1D
Entries 86
Mean −0.01255
Std Dev 0.4057

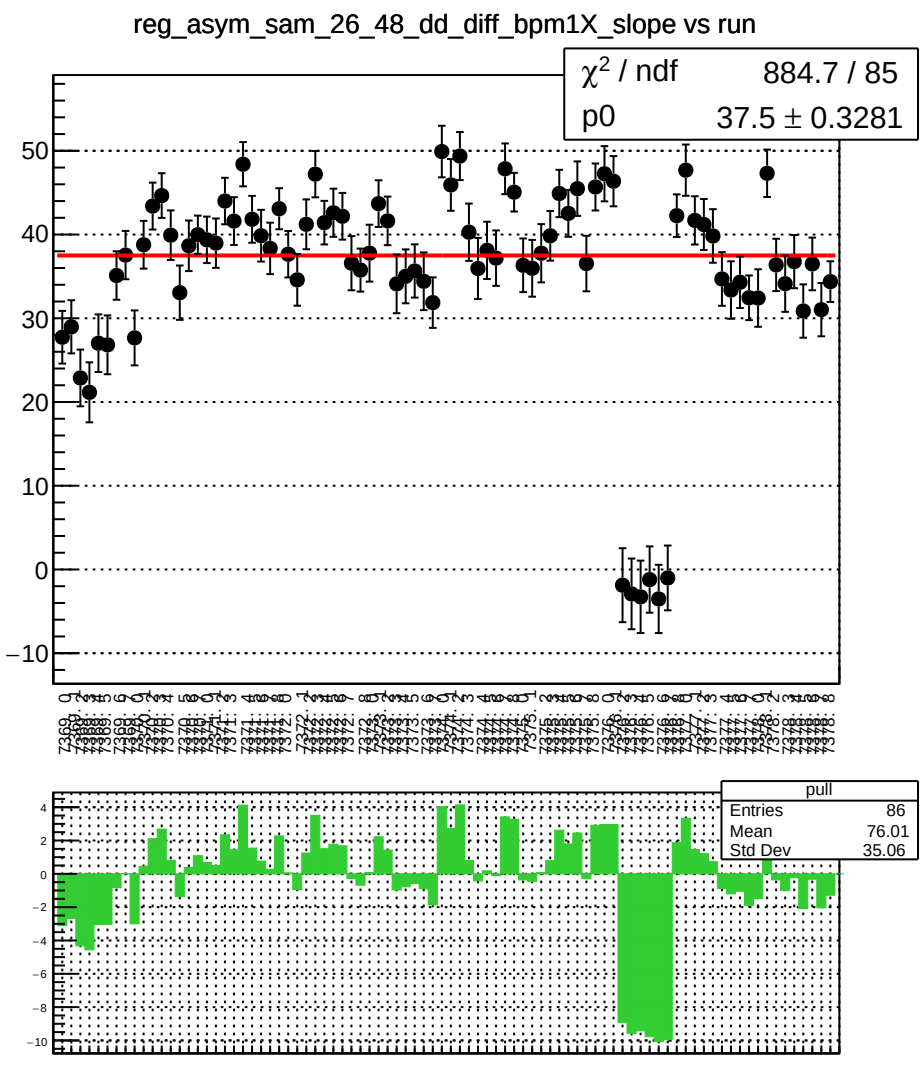

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 244.6 / 85
p0 −53.03 ± 0.4713
pull
Entries 86
Mean 63.24
Std Dev 44.03
pull1D
Entries 86
Mean 0.1732
Std Dev 1.677

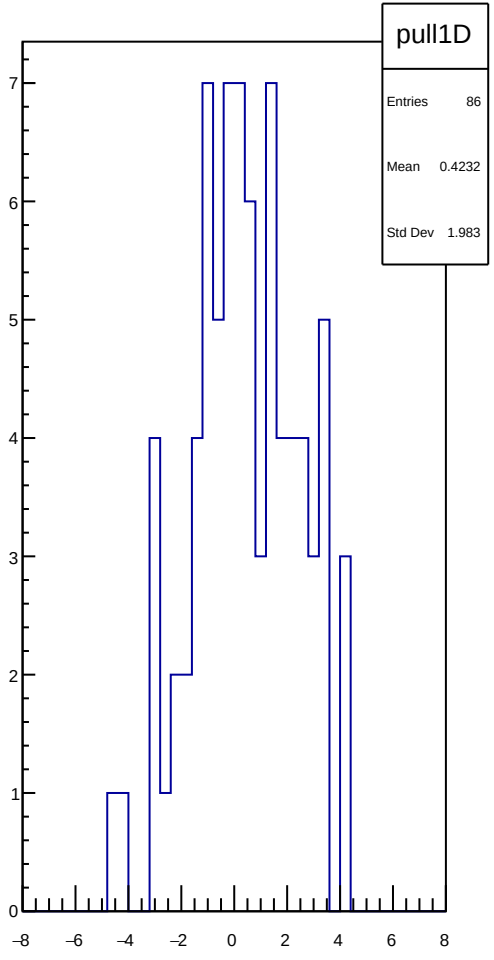

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 103.4 / 85
p0 12.4 ± 0.5206
pull
Entries 86
Mean 499.8
Std Dev 435.6
pull1D
Entries 86
Mean −0.00649
Std Dev 1.097

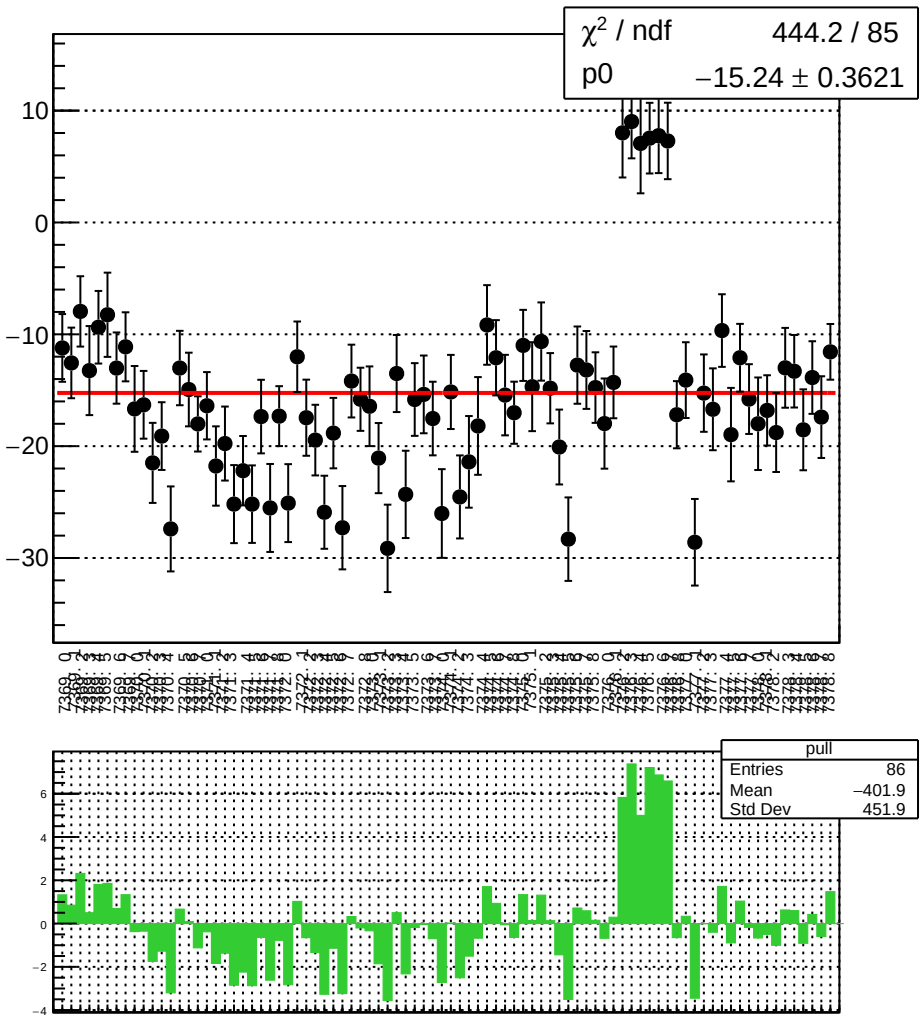

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 185 / 85
p0 −39.63 ± 0.49
−30
−40
−50
−60
−70
pull
Entries 86
Mean 89.23
Std Dev 15.69
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 86
Mean −0.1586
Std Dev 1.458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

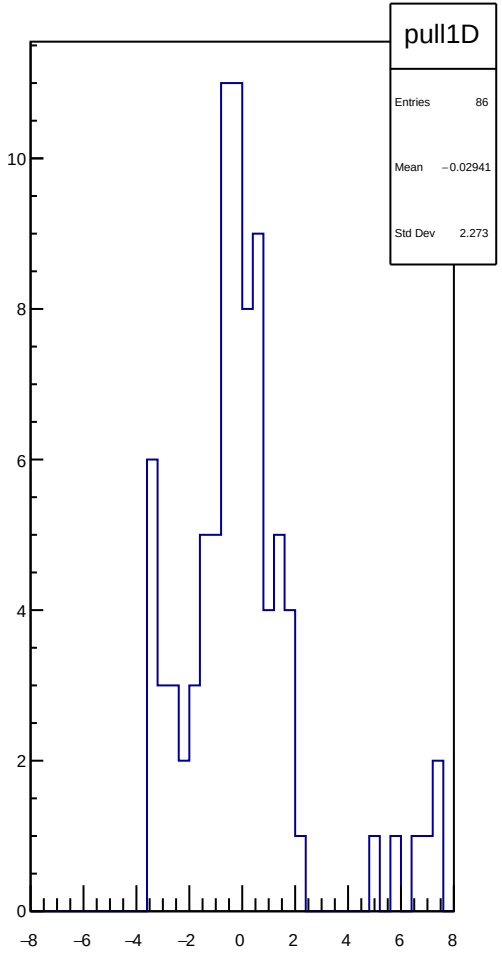

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.27 / 85
p0 −30.84 ± 0.5566
pull
Entries 86
Mean 612.5
Std Dev 567.3
pull1D
Entries 86
Mean 0.01224
Std Dev 0.9229

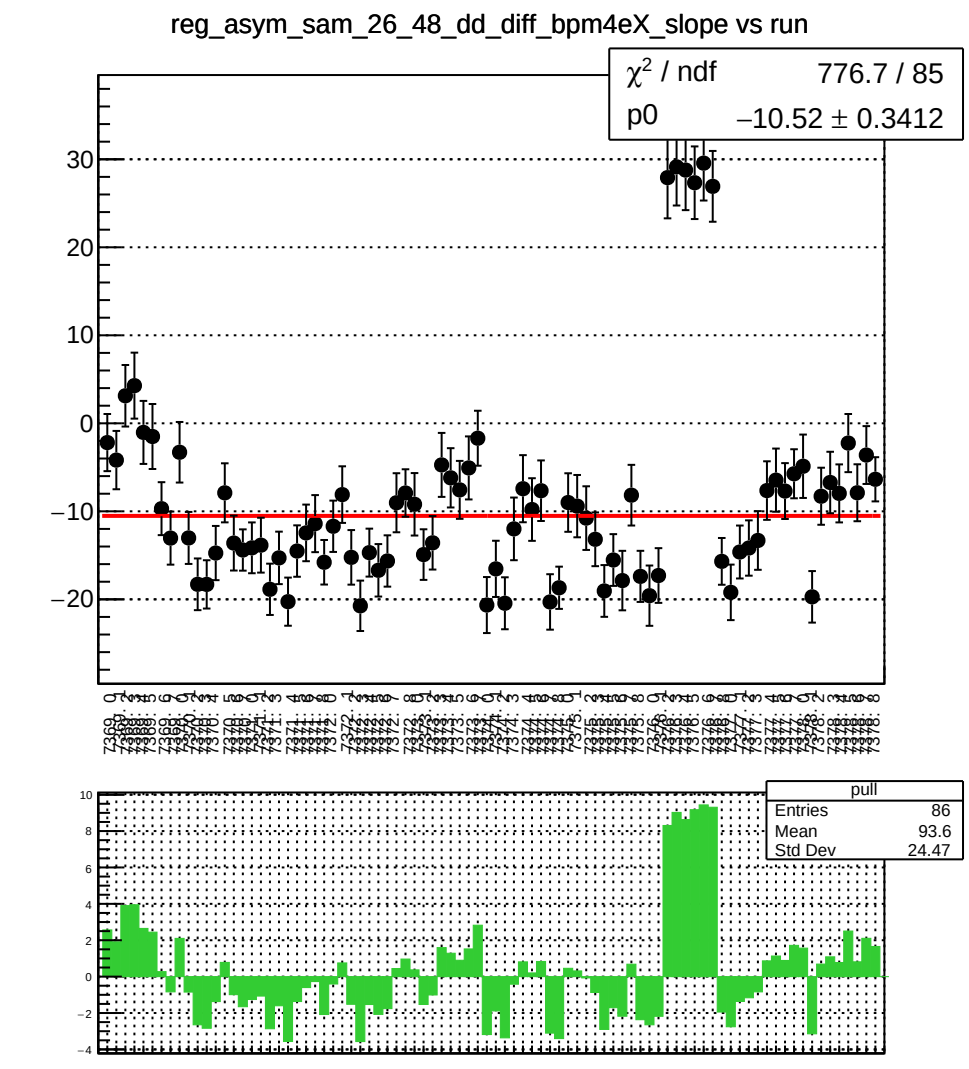

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 48.48 / 85
p0 0.2579 ± 0.02563
pull
Entries 86
Mean 3343
Std Dev 3295
pull1D
Entries 86
Mean 0.003679
Std Dev 0.7508

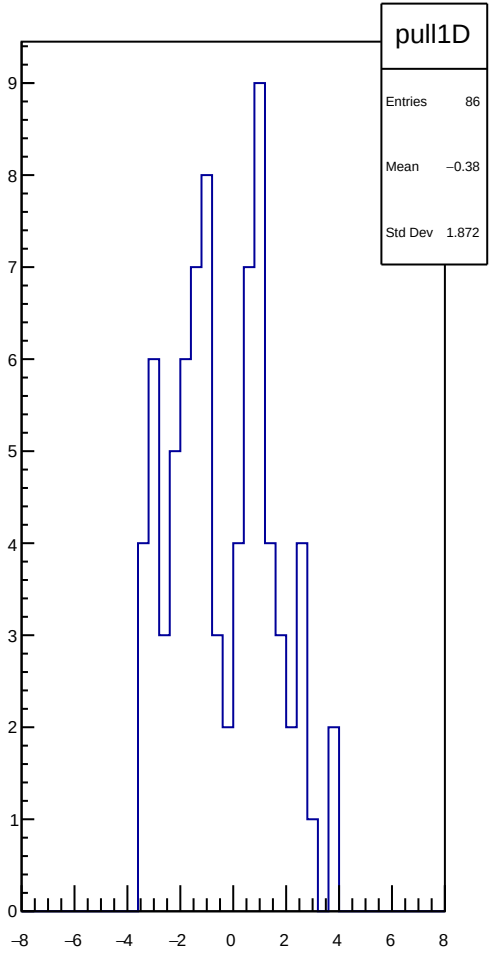

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 884.7 / 85
p0 37.5 ± 0.3281
pull
Entries 86
Mean 76.01
Std Dev 35.06

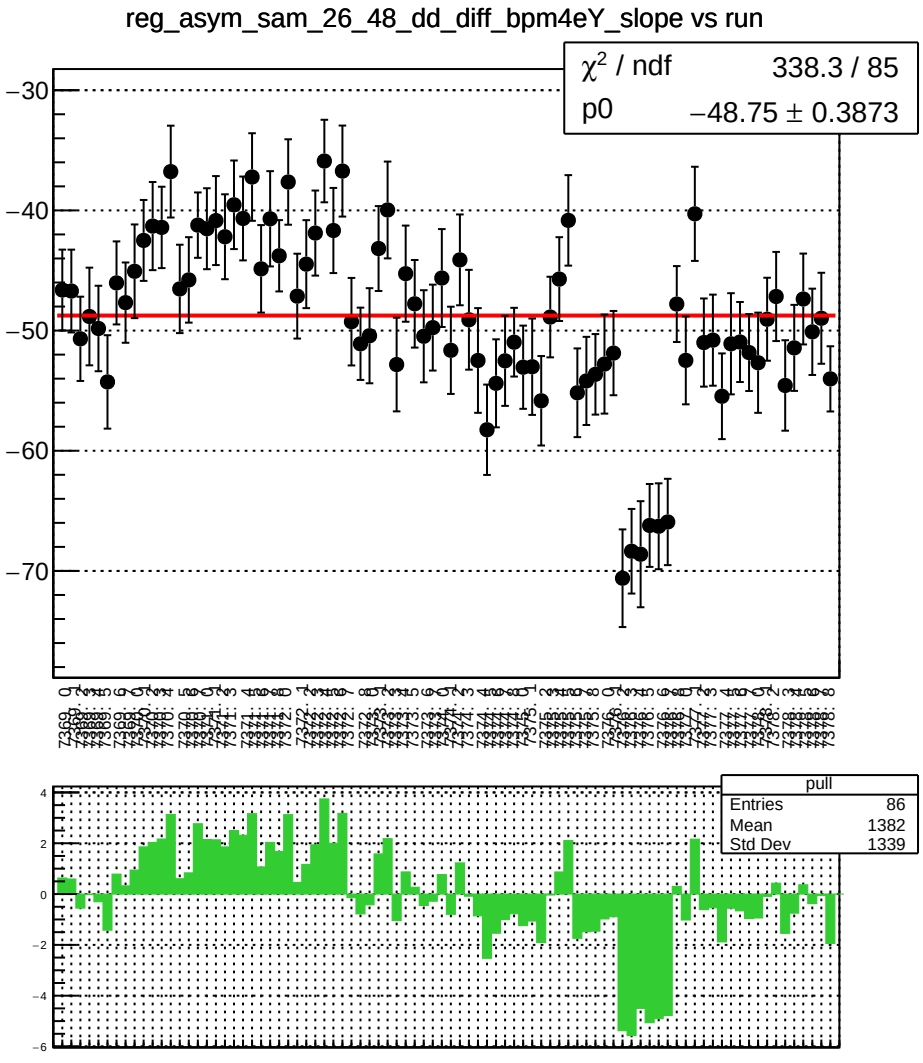

pull1D
Entries 86
Mean 0.4232
Std Dev 1.983

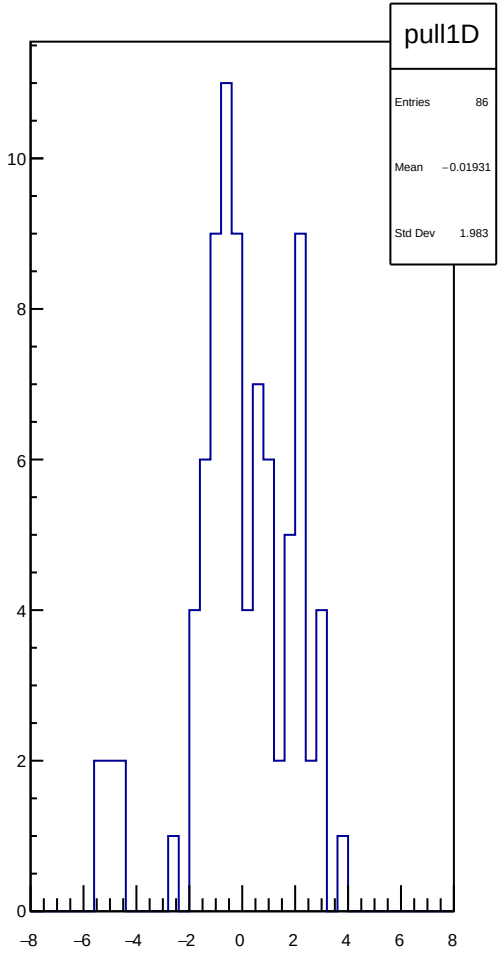

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 444.2 / 85
p0 −15.24 ± 0.3621
pull
Entries 86
Mean −401.9
Std Dev 451.9

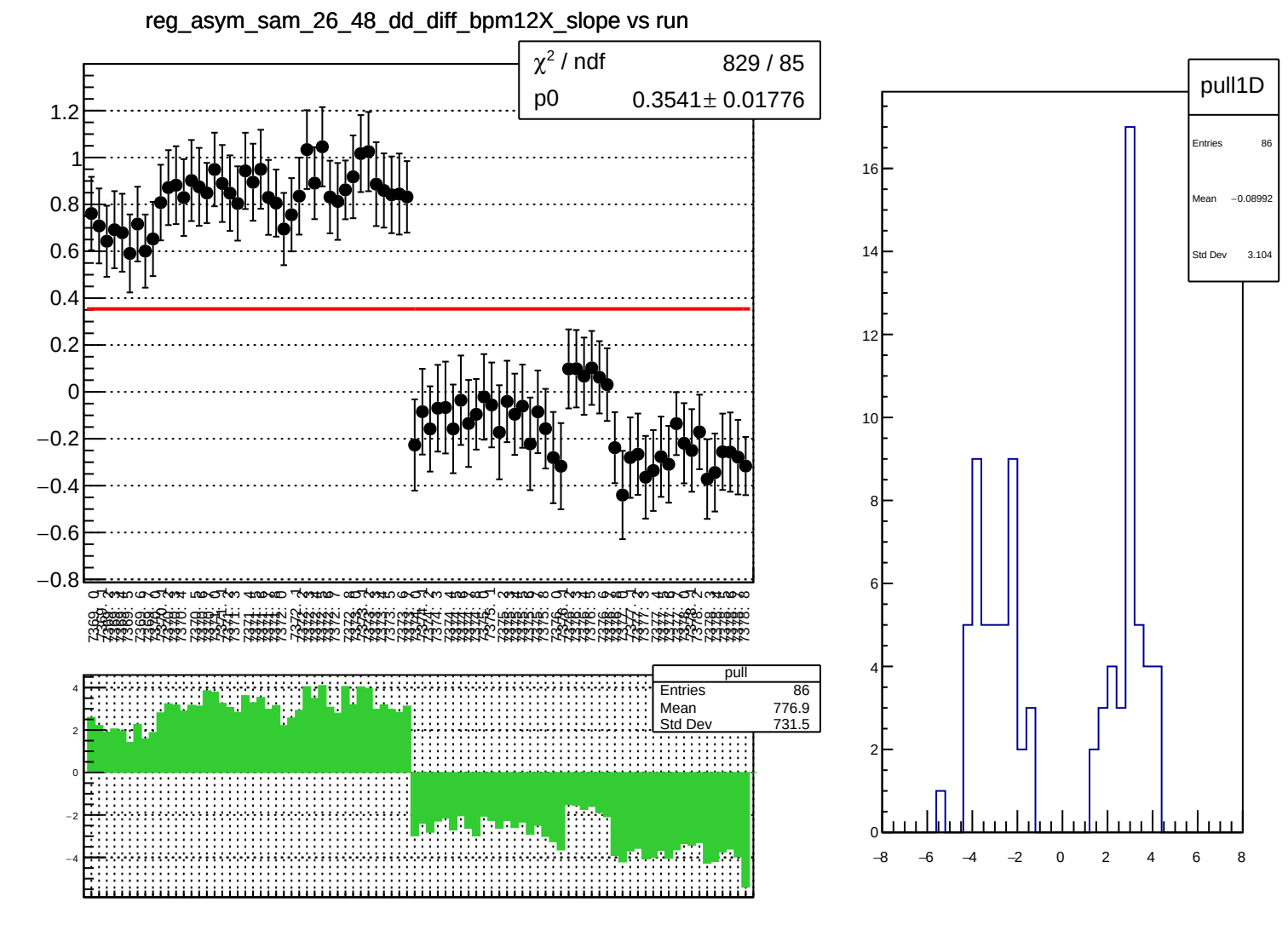

pull1D
Entries 86
Mean −0.02941
Std Dev 2.273

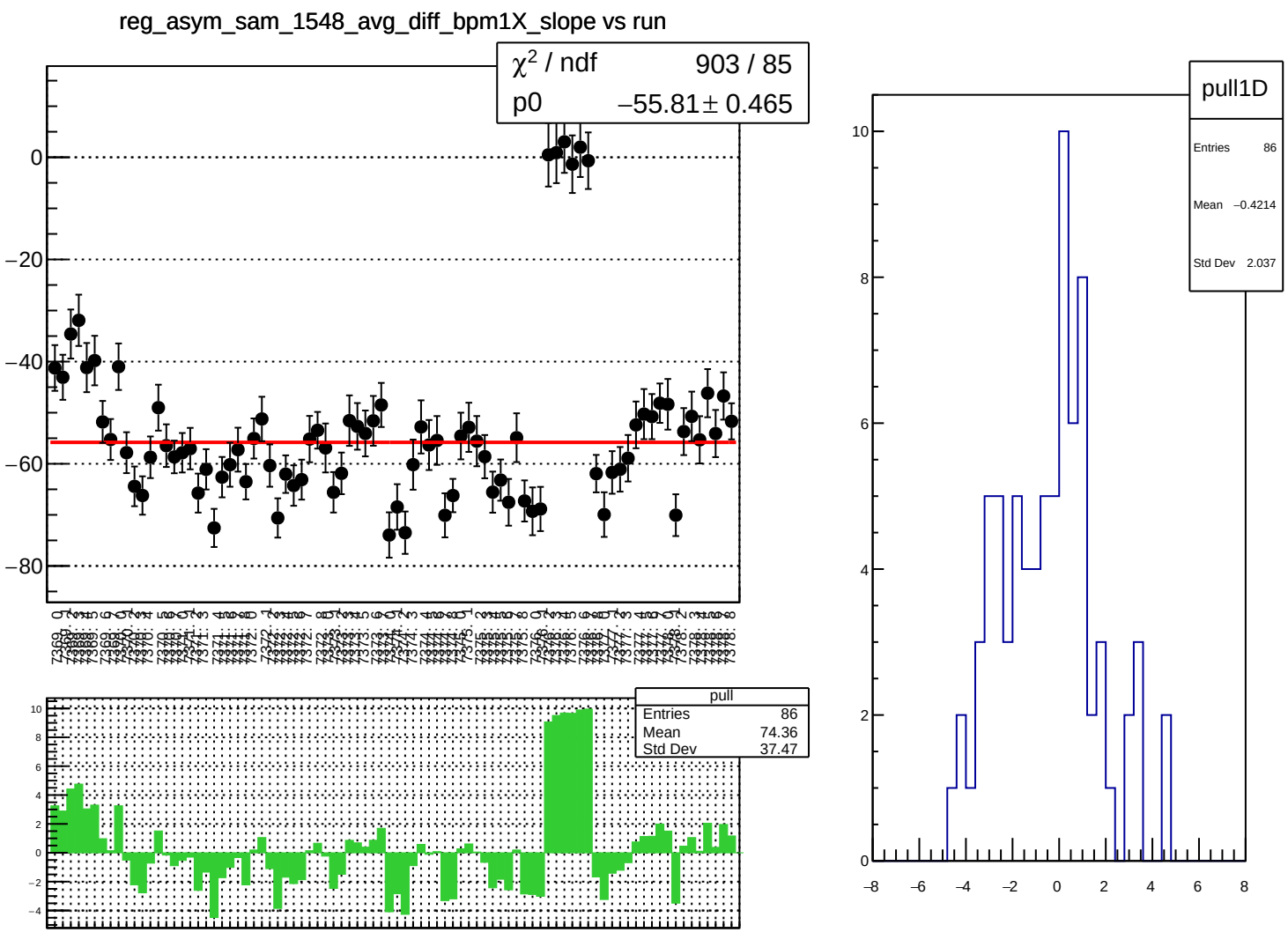

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 776.7 / 85
p0 −10.52 ± 0.3412
pull
Entries 86
Mean 93.6
Std Dev 24.47

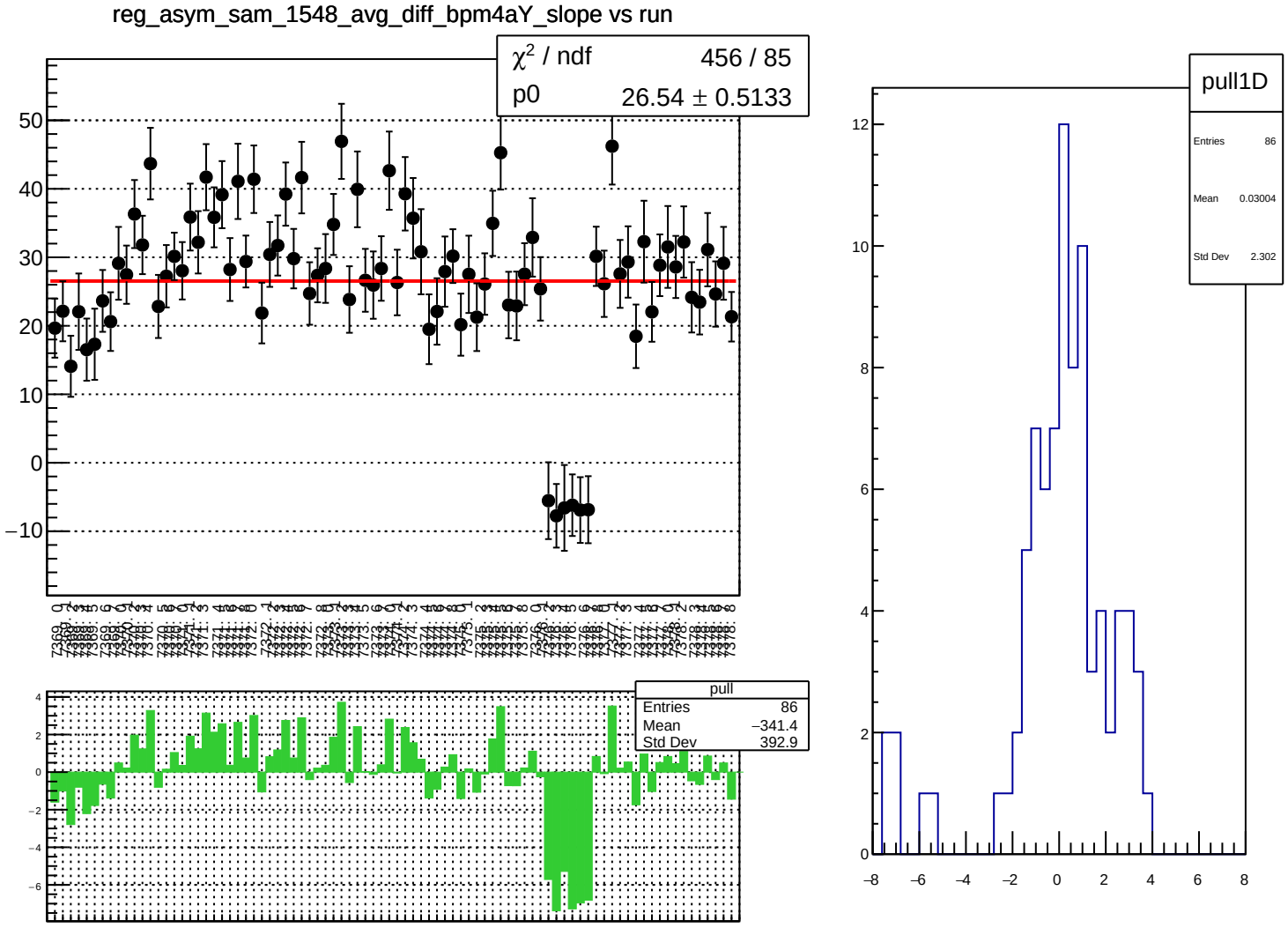

pull1D
Entries 86
Mean −0.38
Std Dev 1.872

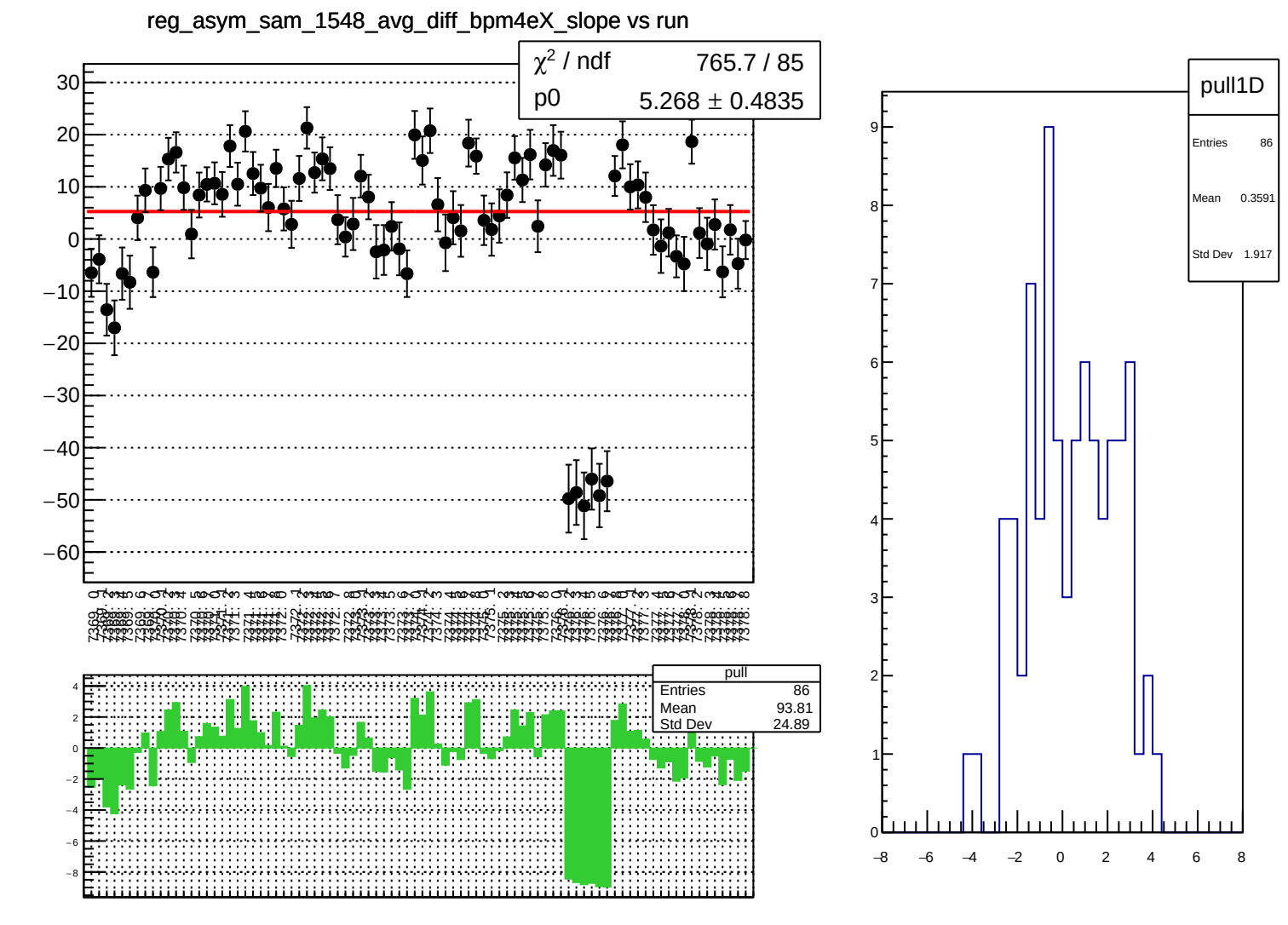

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 338.3 / 85
p0 −48.75 ± 0.3873
pull
Entries 86
Mean 1382
Std Dev 1339

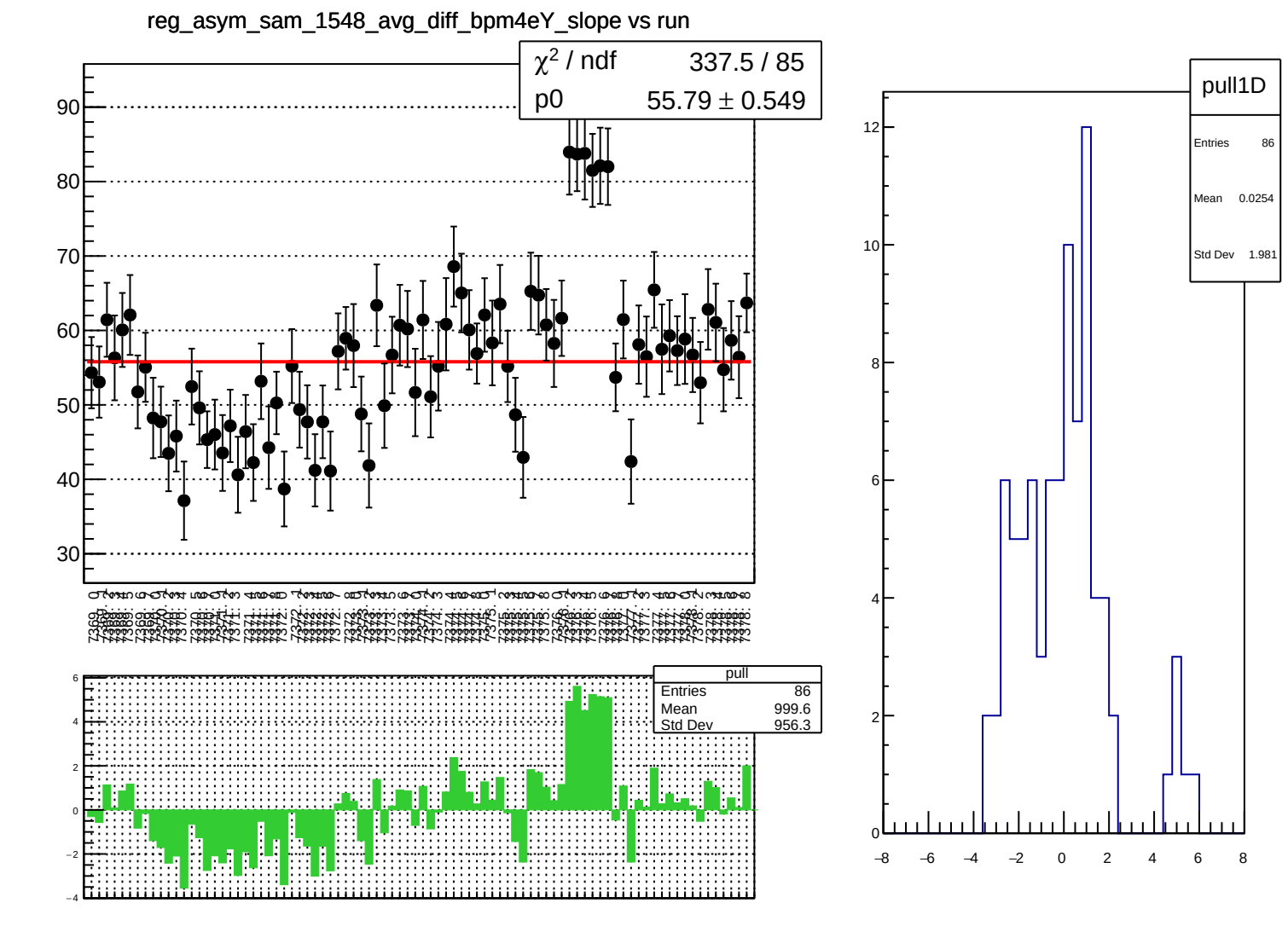

pull1D
Entries 86
Mean −0.01931
Std Dev 1.983

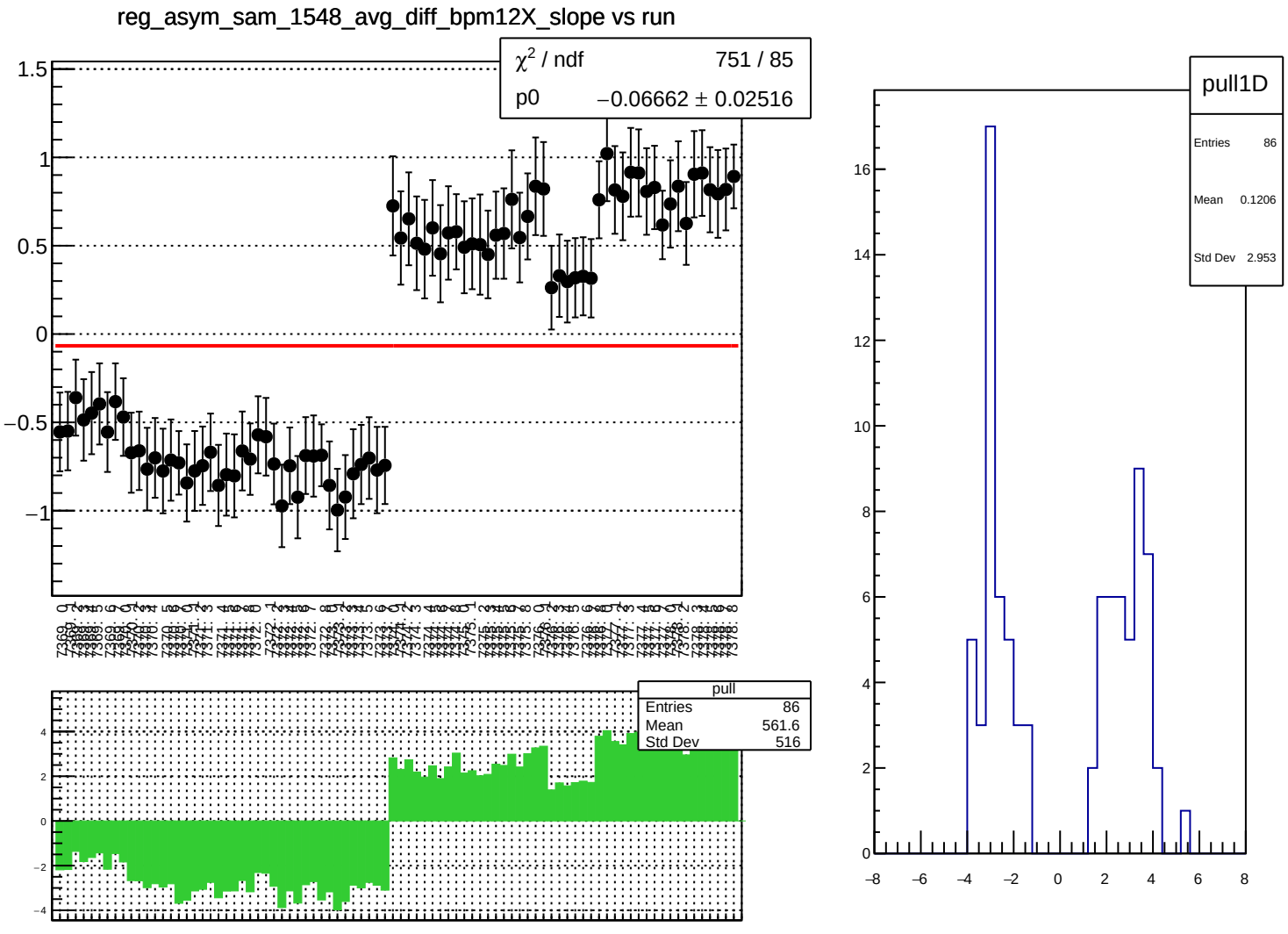

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 829 / 85
p0 0.3541± 0.01776
pull
Entries 86
Mean 776.9
Std Dev 731.5
pull1D
Entries 86
Mean −0.08992
Std Dev 3.104

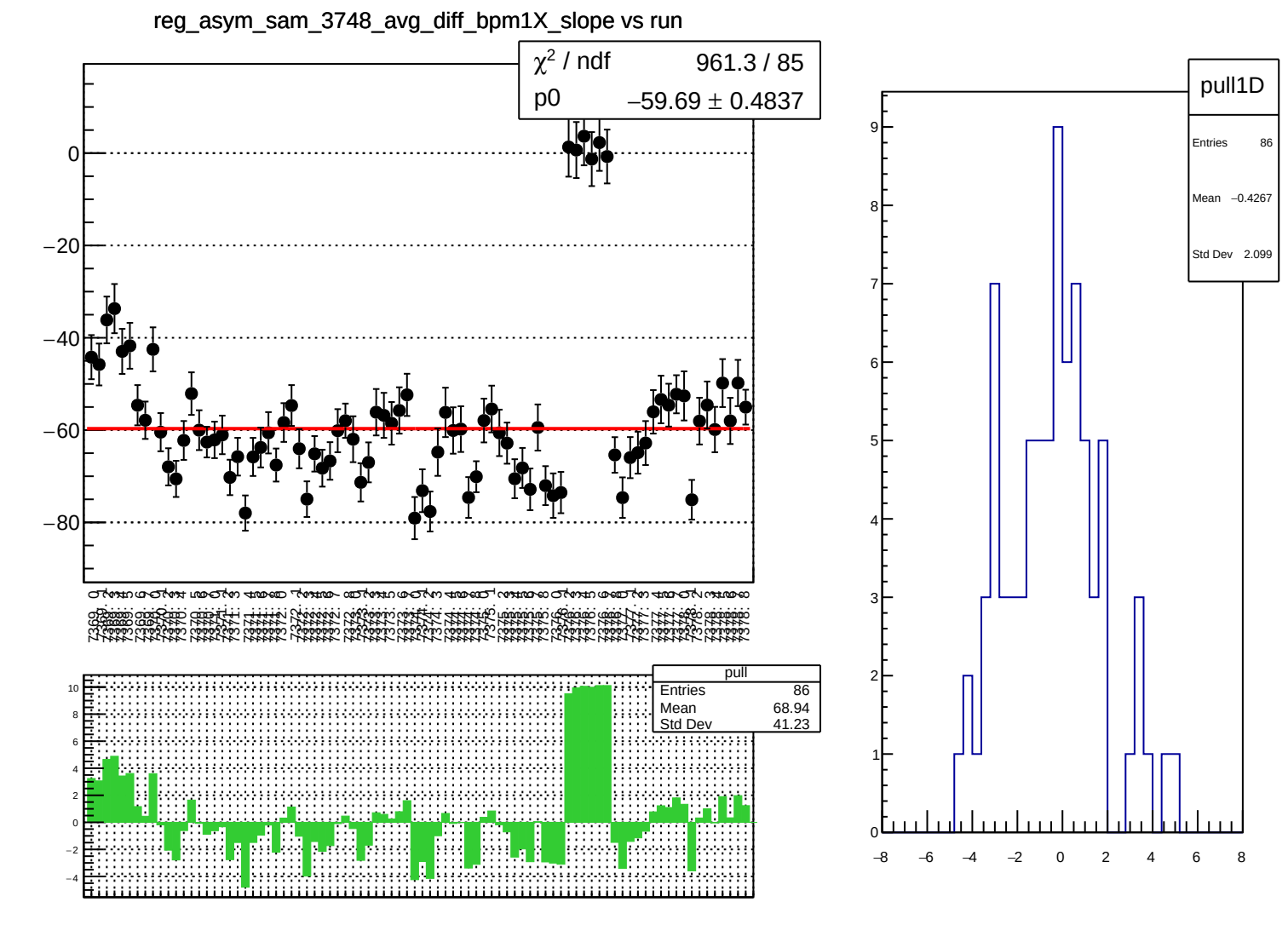

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 903 / 85
p0 −55.81 ± 0.465
pull
Entries 86
Mean 74.36
Std Dev 37.47
pull1D
Entries 86
Mean −0.4214
Std Dev 2.037

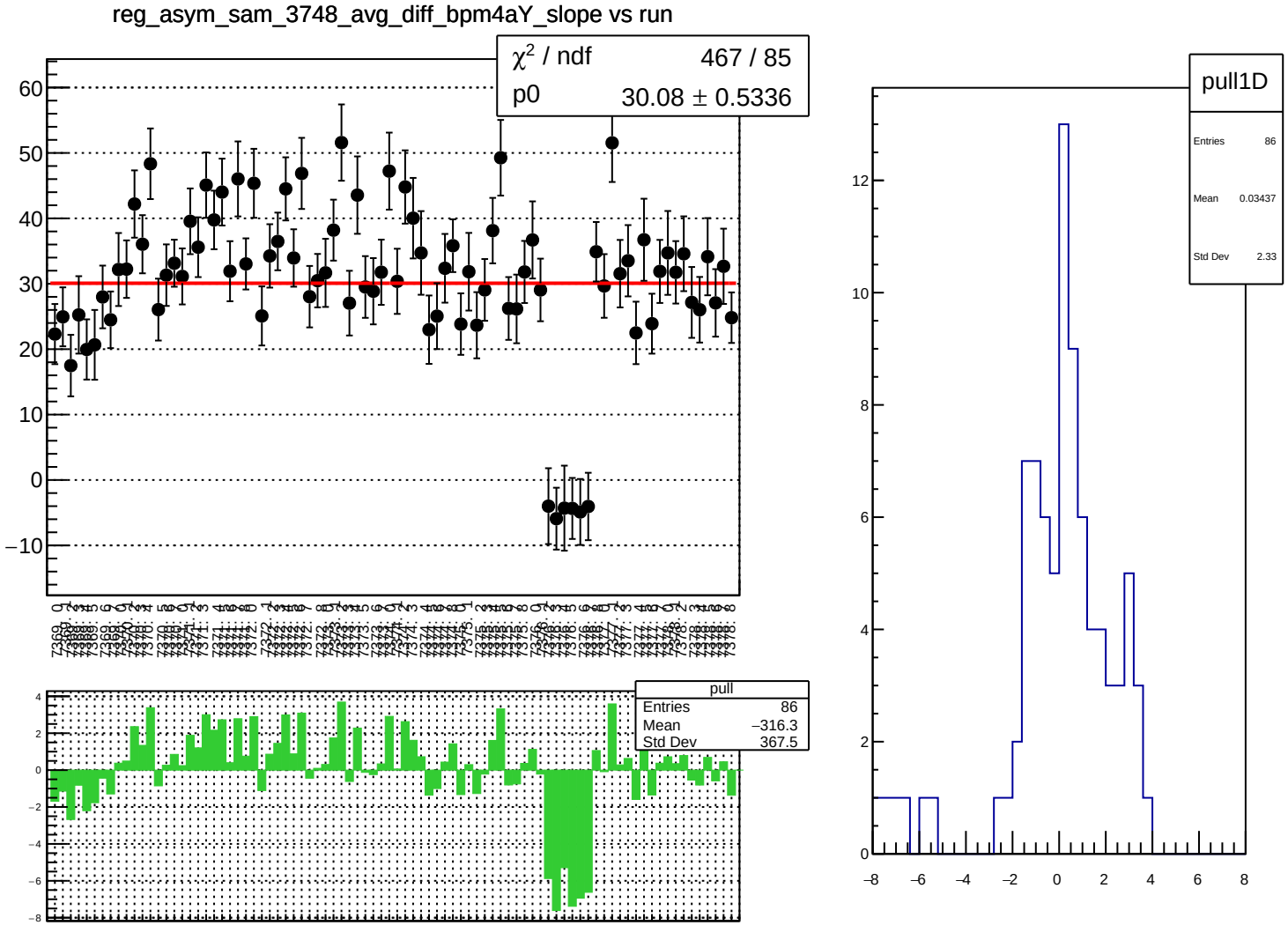

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 456 / 85
p0 26.54 ± 0.5133
pull
Entries 86
Mean −341.4
Std Dev 392.9
pull1D
Entries 86
Mean 0.03004
Std Dev 2.302

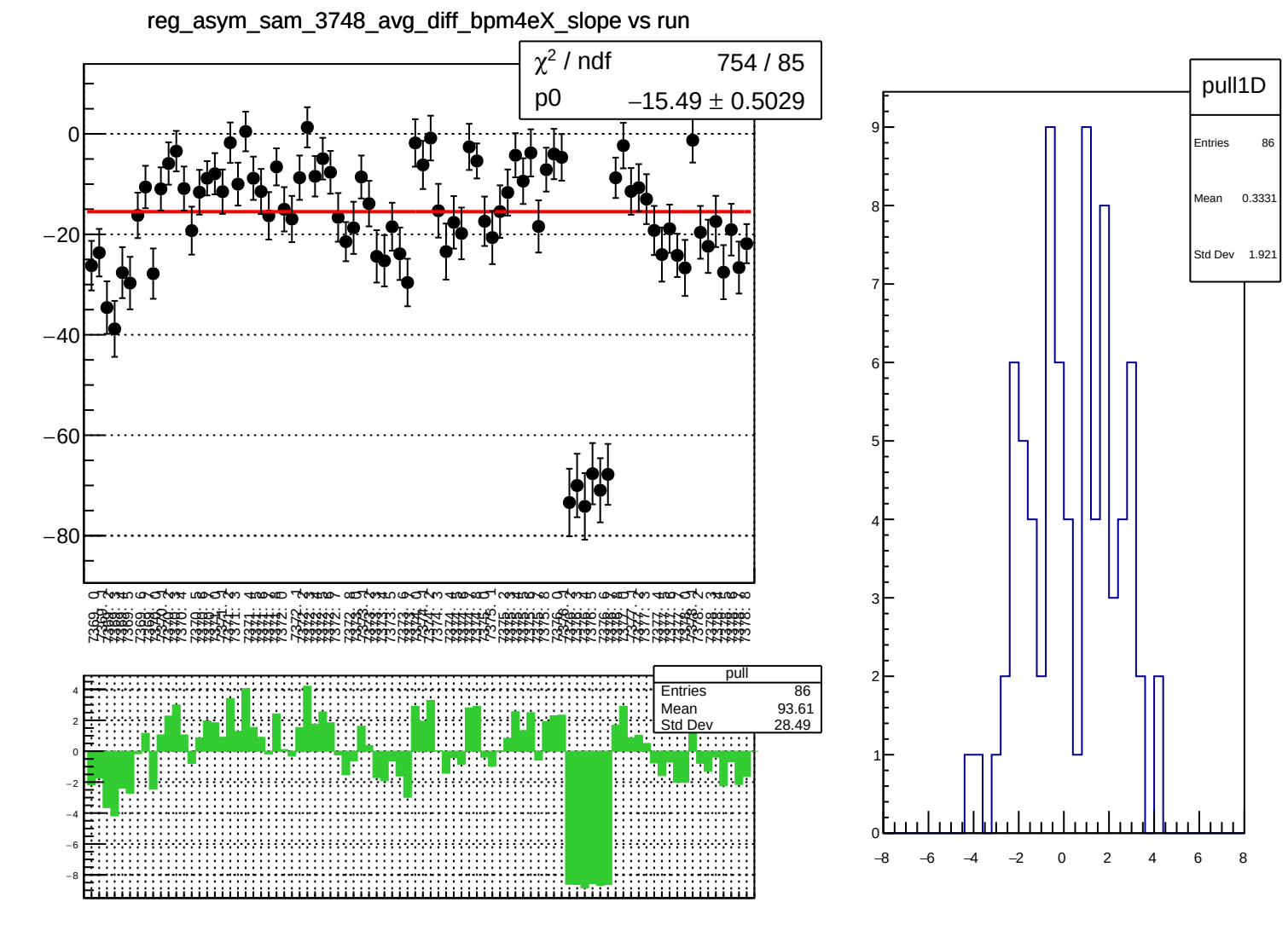

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 765.7 / 85
p0 5.268 ± 0.4835
pull
Entries 86
Mean 93.81
Std Dev 24.89
pull1D
Entries 86
Mean 0.3591
Std Dev 1.917

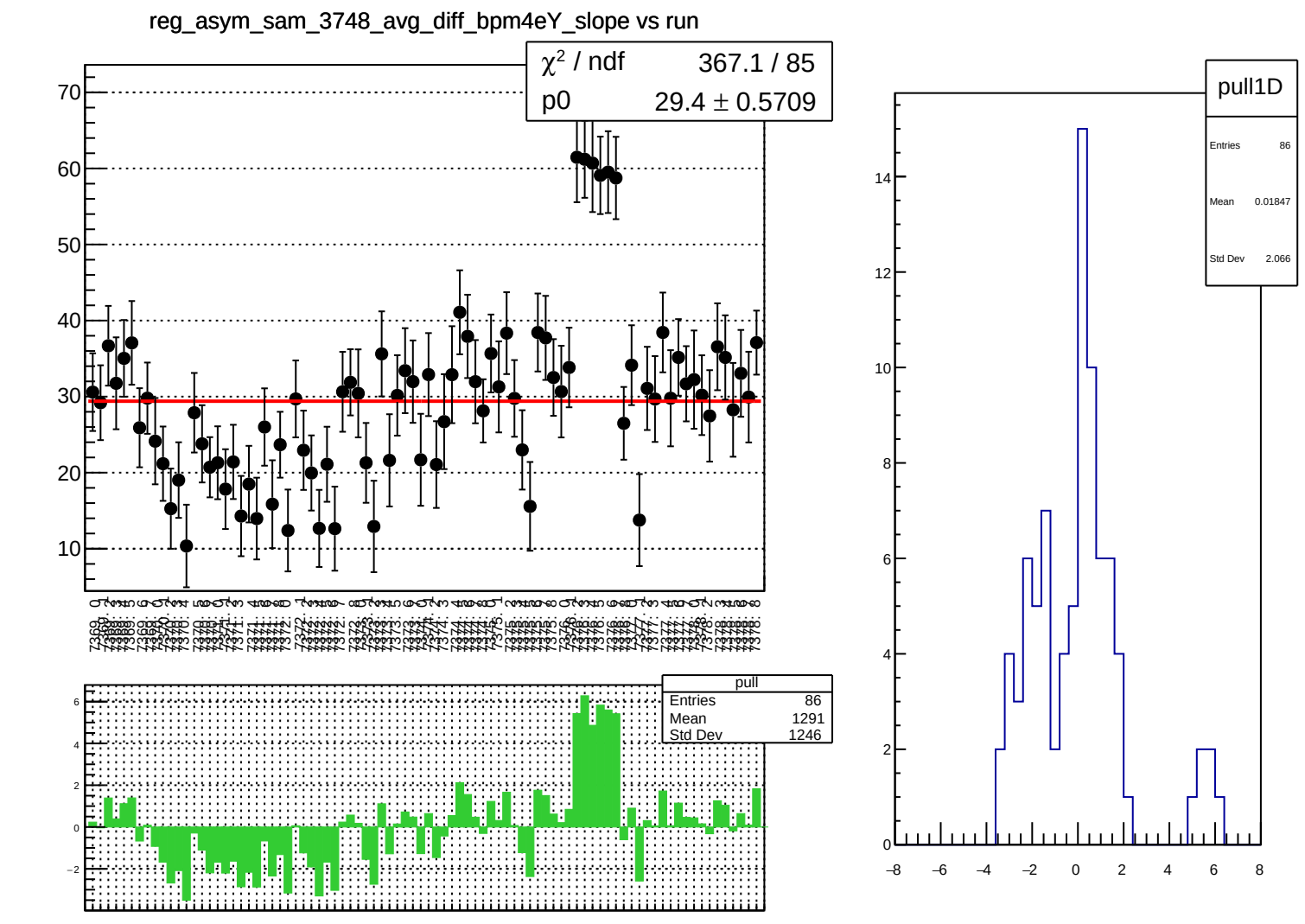

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 337.5 / 85
p0 55.79 ± 0.549
pull
Entries 86
Mean 999.6
Std Dev 956.3
pull1D
Entries 86
Mean 0.0254
Std Dev 1.981

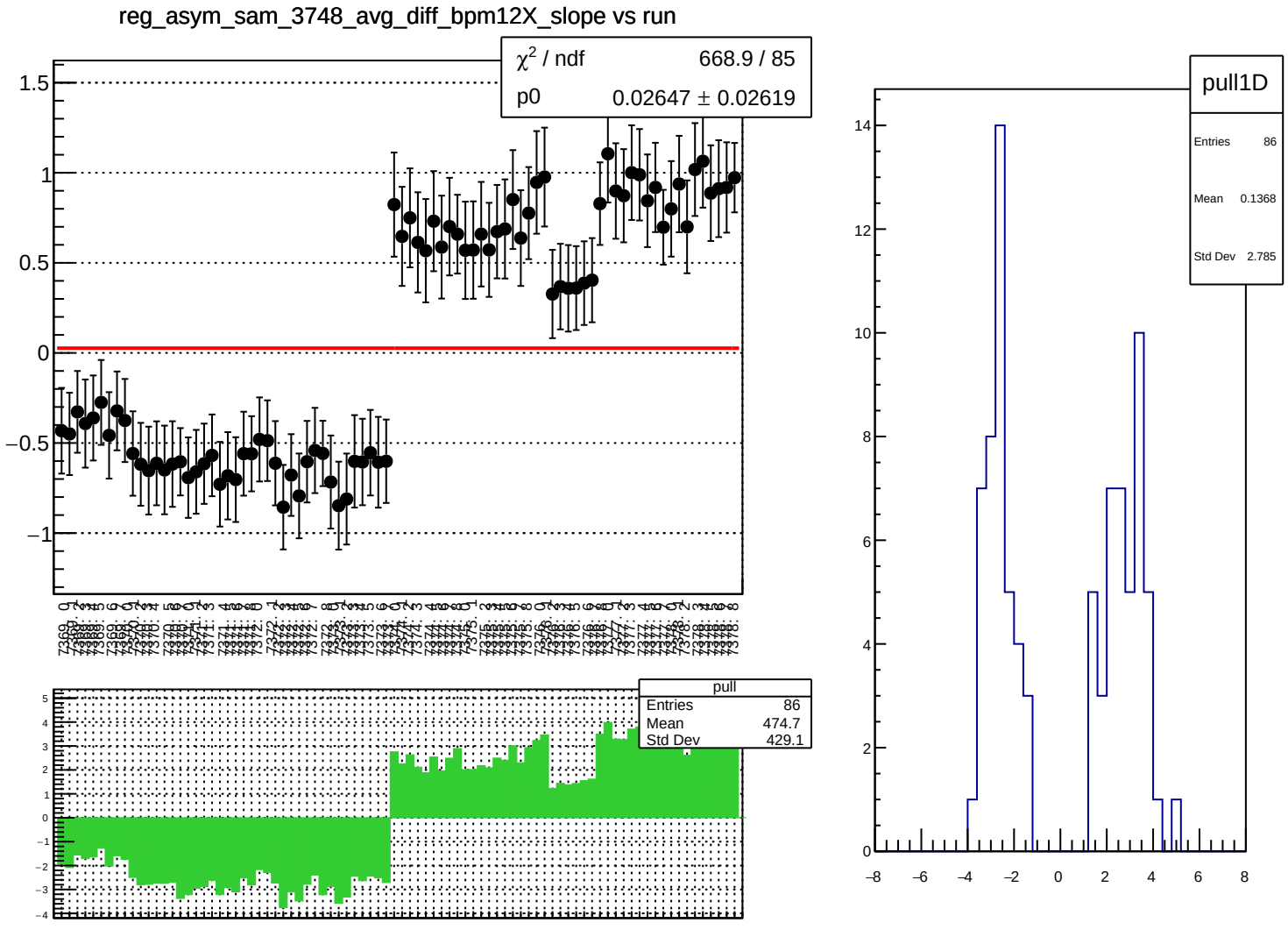

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 751 / 85
p0 −0.06662 ± 0.02516
pull
Entries 86
Mean 561.6
Std Dev 516
pull1D
Entries 86
Mean 0.1206
Std Dev 2.953

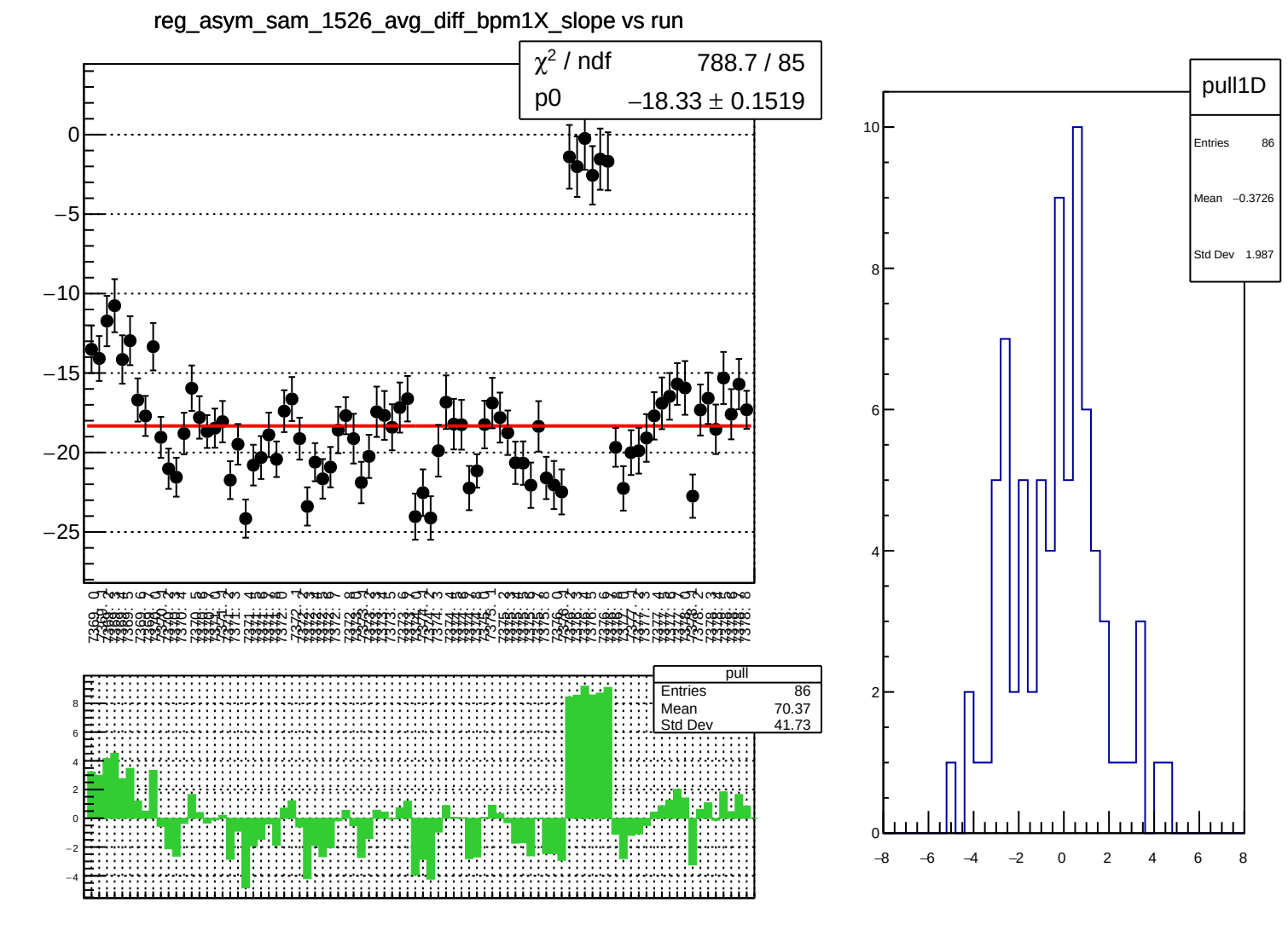

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 961.3 / 85
p0 −59.69 ± 0.4837
pull
Entries 86
Mean 68.94
Std Dev 41.23
pull1D
Entries 86
Mean −0.4267
Std Dev 2.099

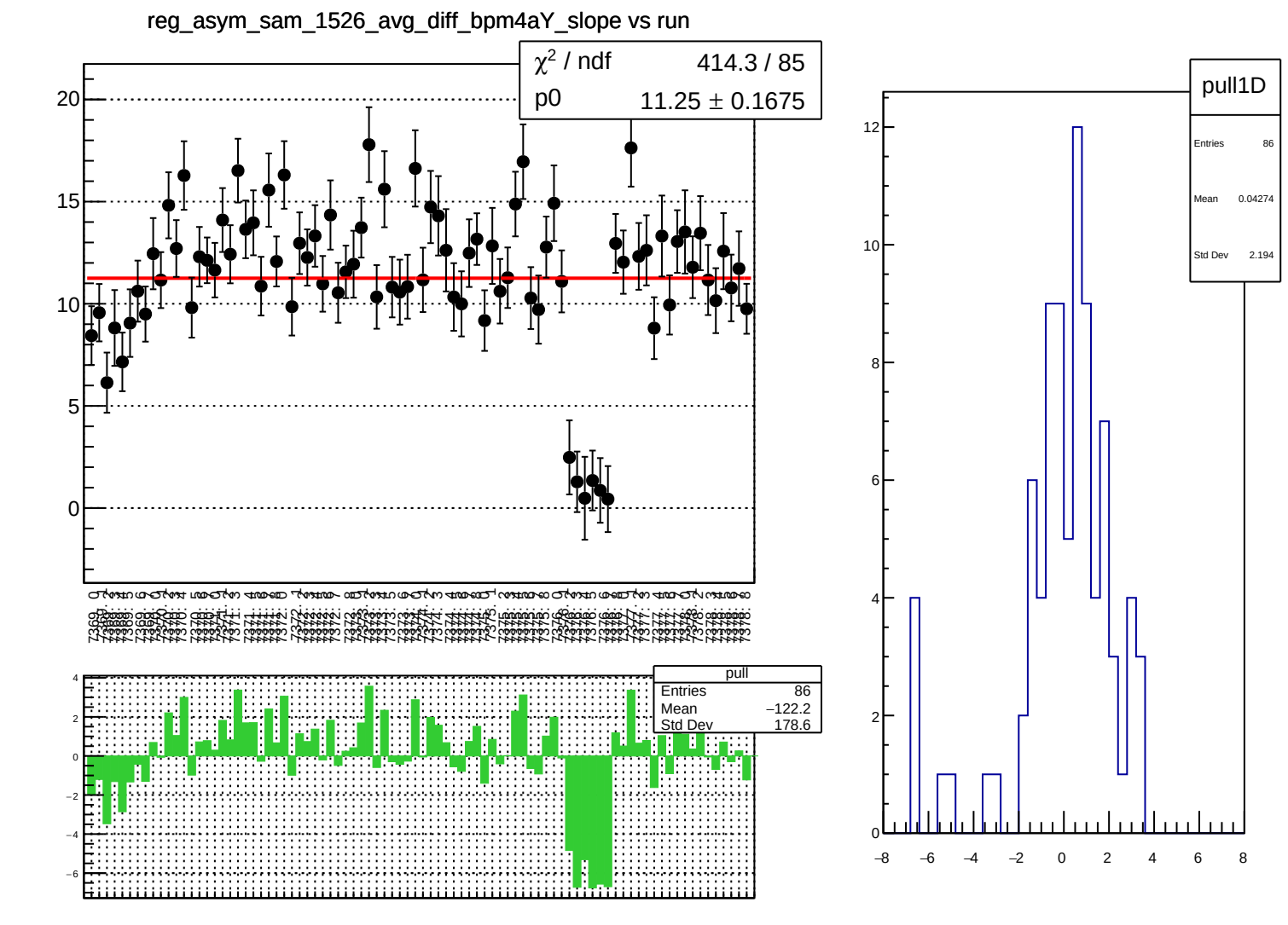

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 467 / 85
p0 30.08 ± 0.5336
pull
Entries 86
Mean −316.3
Std Dev 367.5
pull1D
Entries 86
Mean 0.03437
Std Dev 2.33

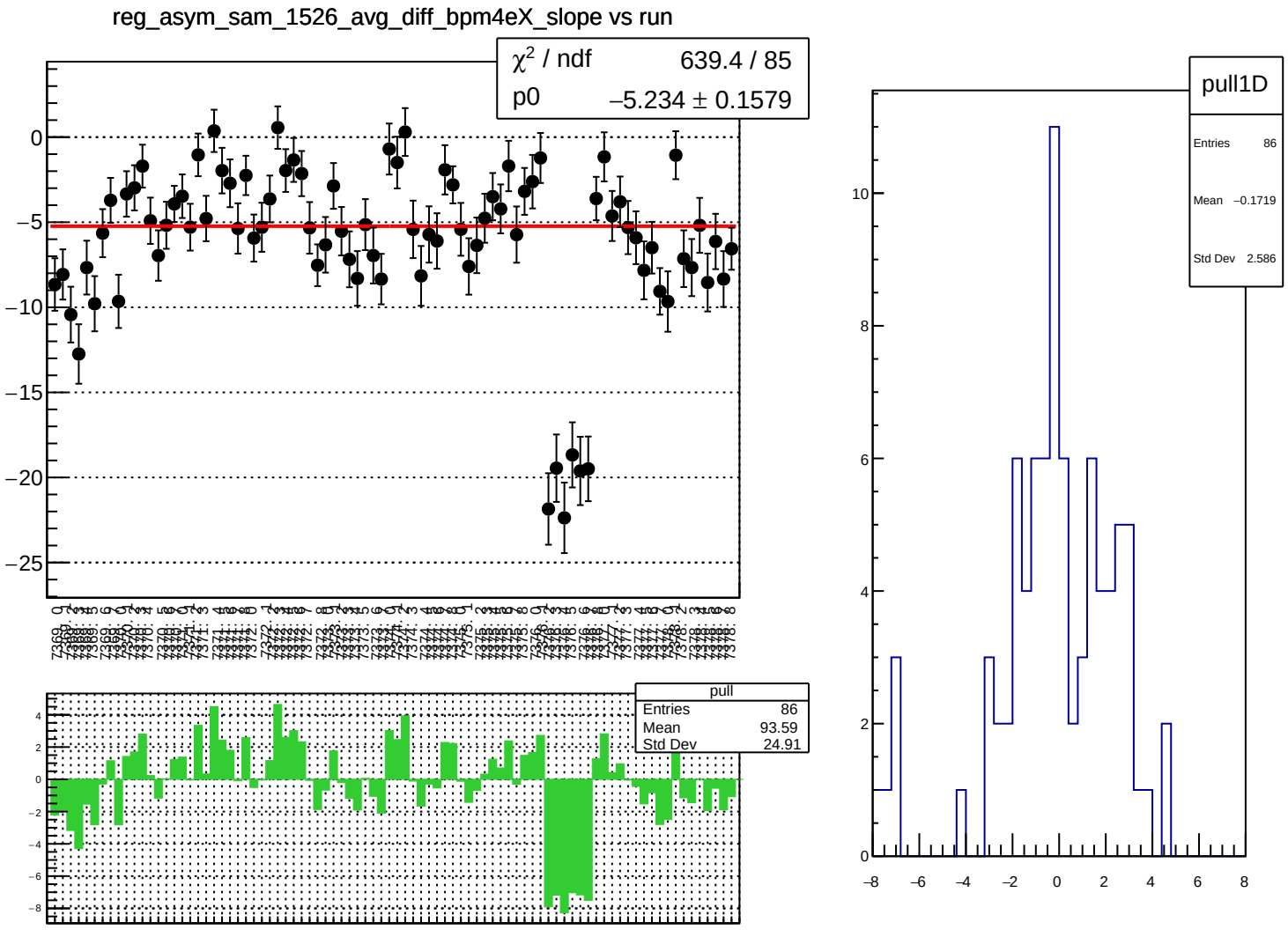

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 754 / 85
p0 −15.49 ± 0.5029
pull
Entries 86
Mean 93.61
Std Dev 28.49
pull1D
Entries 86
Mean 0.3331
Std Dev 1.921

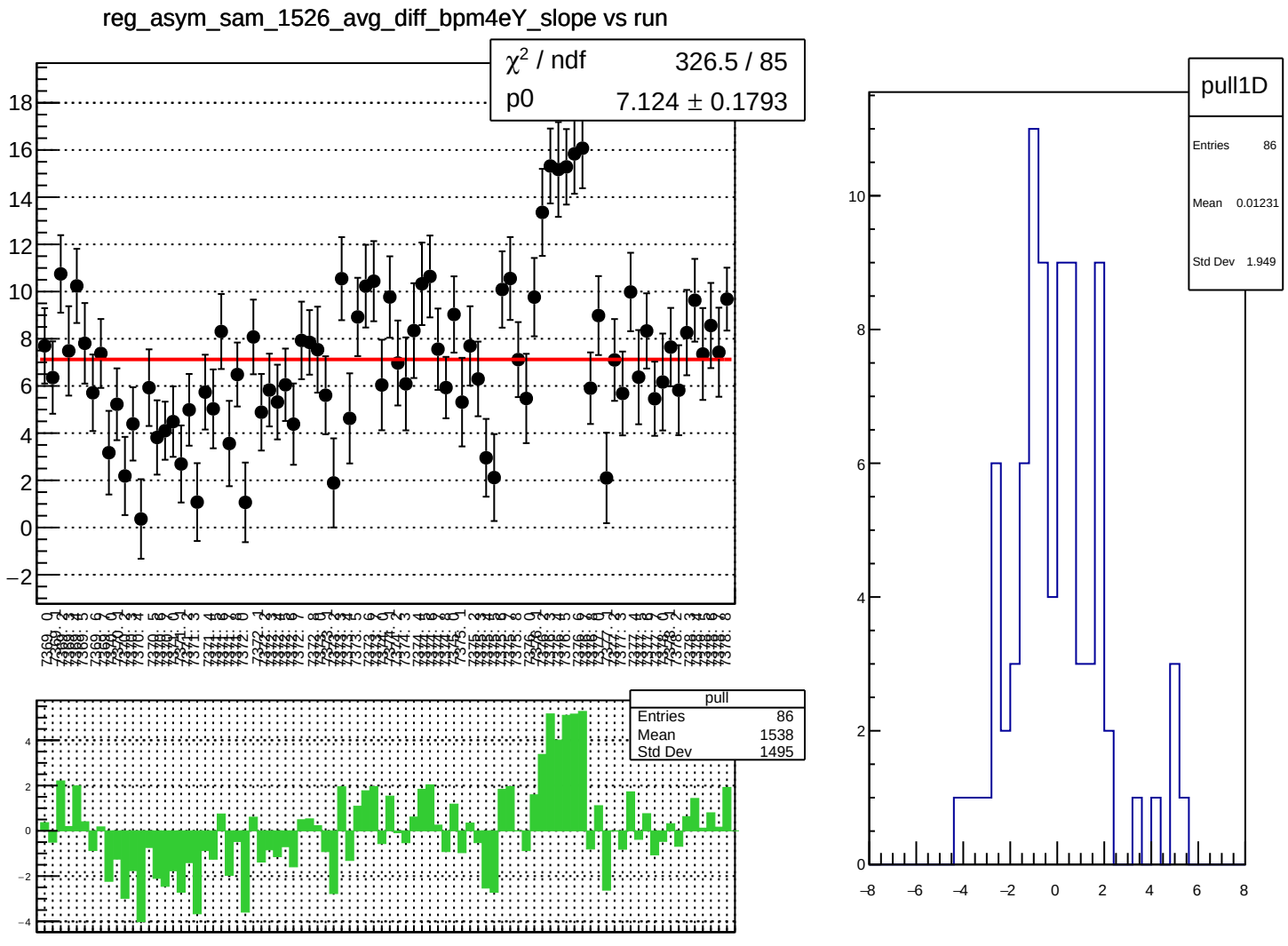

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 367.1 / 85
p0 29.4 ± 0.5709
pull
Entries 86
Mean 1291
Std Dev 1246
pull1D
Entries 86
Mean 0.01847
Std Dev 2.066

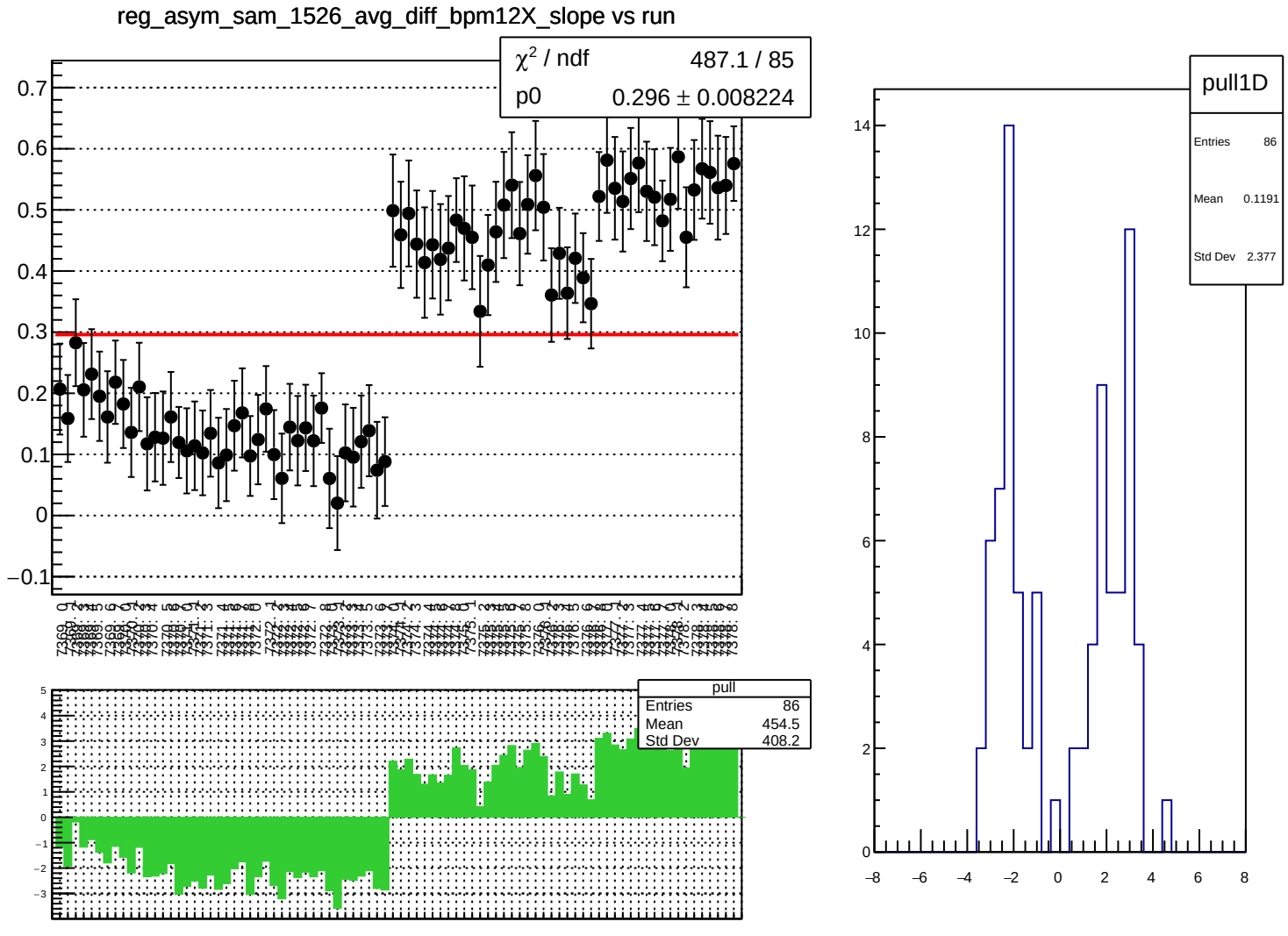

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 668.9 / 85
p0 0.02647 ± 0.02619
pull
Entries 86
Mean 474.7
Std Dev 429.1
pull1D
Entries 86
Mean 0.1368
Std Dev 2.785

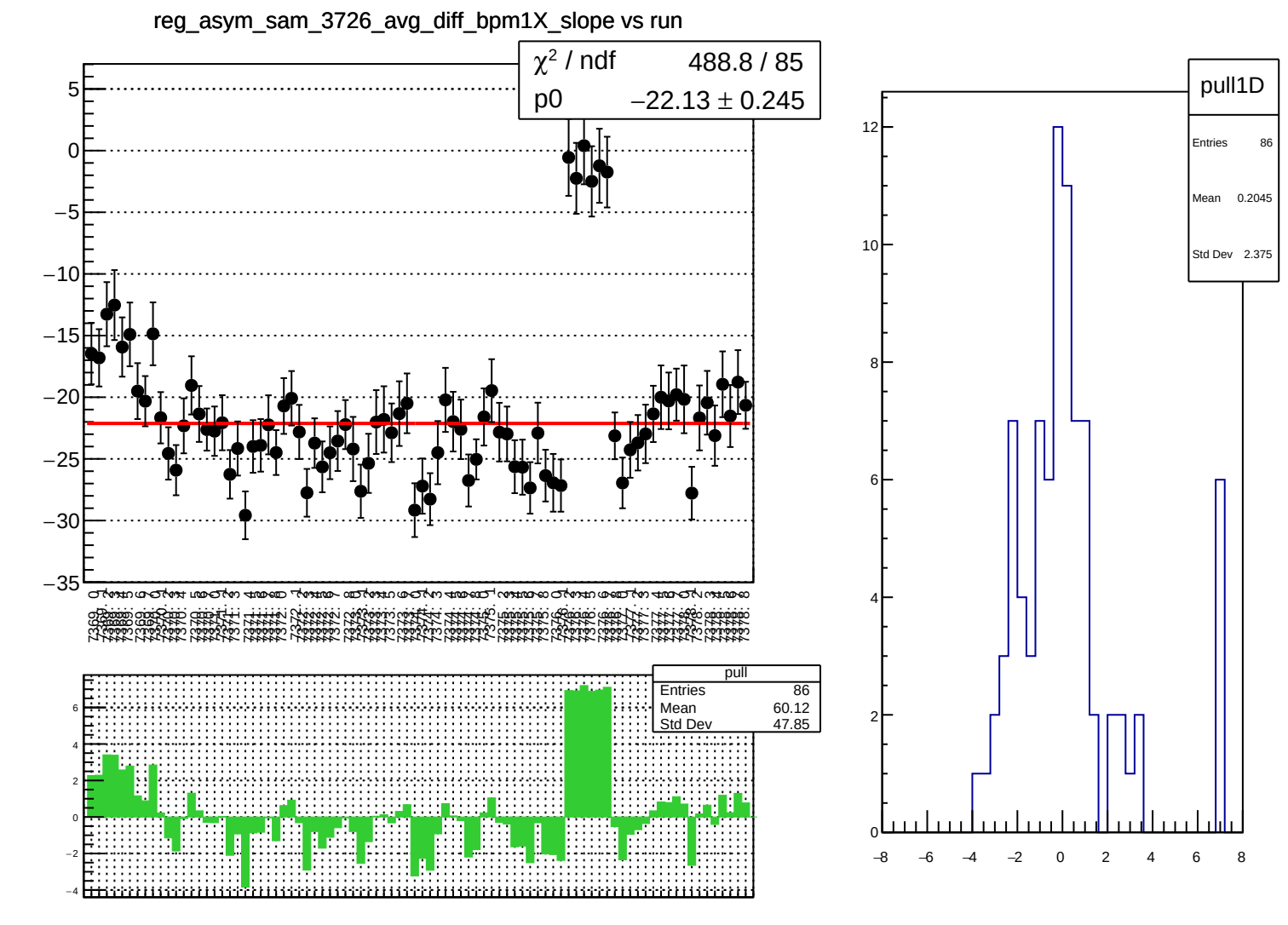

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 788.7 / 85
p0 −18.33 ± 0.1519
pull
Entries 86
Mean 70.37
Std Dev 41.73
pull1D
Entries 86
Mean −0.3726
Std Dev 1.987

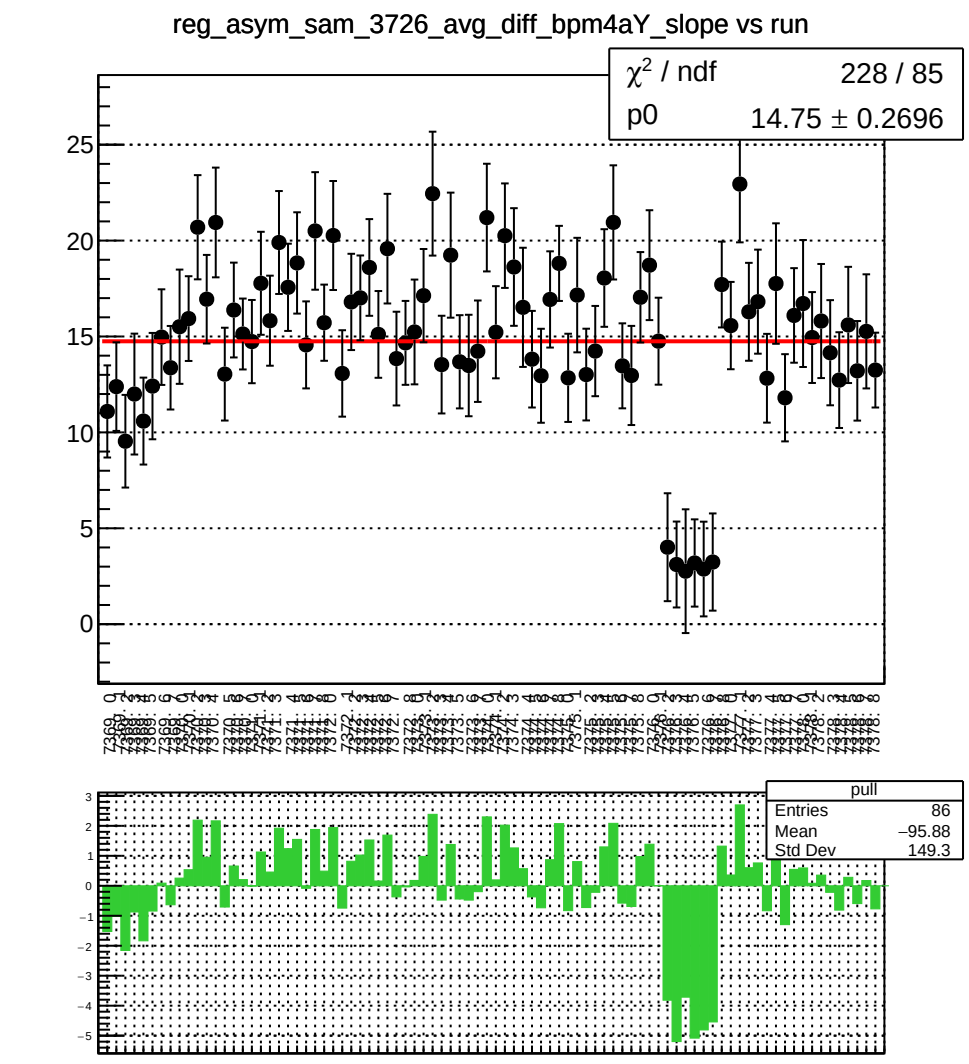

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 414.3 / 85
p0 11.25 ± 0.1675
pull
Entries 86
Mean −122.2
Std Dev 178.6
pull1D
Entries 86
Mean 0.04274
Std Dev 2.194

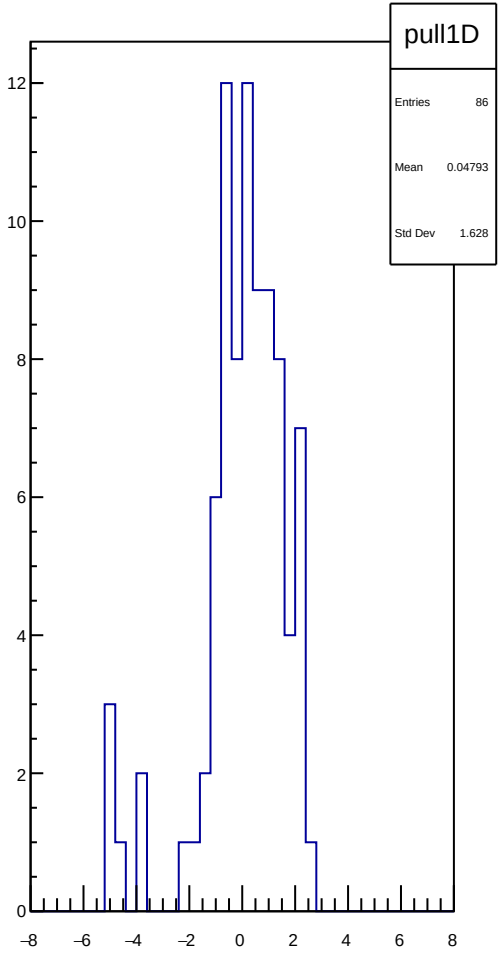

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 639.4 / 85
p0 −5.234 ± 0.1579
pull
Entries 86
Mean 93.59
Std Dev 24.91
pull1D
Entries 86
Mean −0.1719
Std Dev 2.586

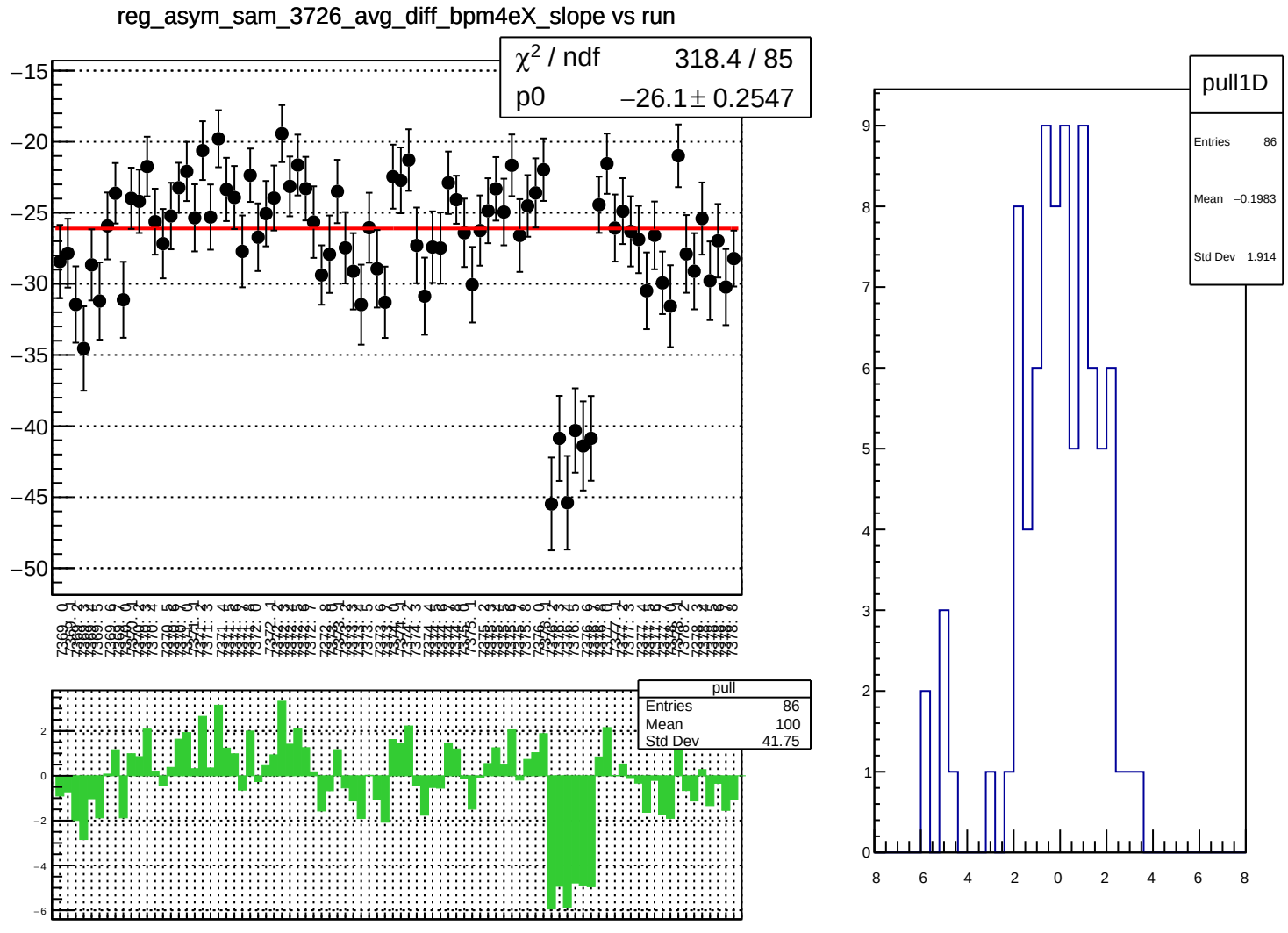

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 326.5 / 85
p0 7.124 ± 0.1793
pull
Entries 86
Mean 1538
Std Dev 1495
pull1D
Entries 86
Mean 0.01231
Std Dev 1.949

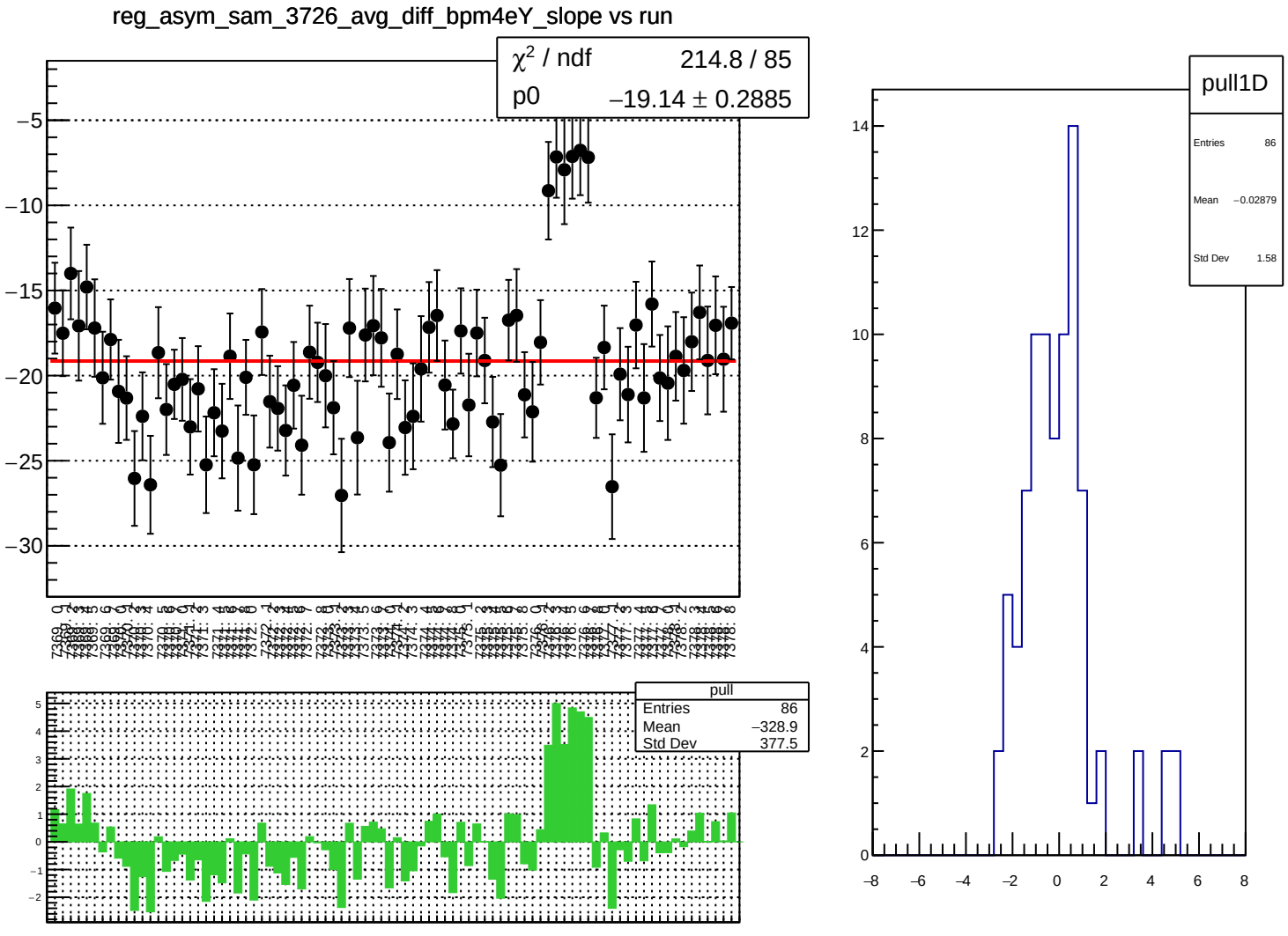

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 487.1 / 85
p0 0.296 ± 0.008224
pull
Entries 86
Mean 454.5
Std Dev 408.2
pull1D
Entries 86
Mean 0.1191
Std Dev 2.377

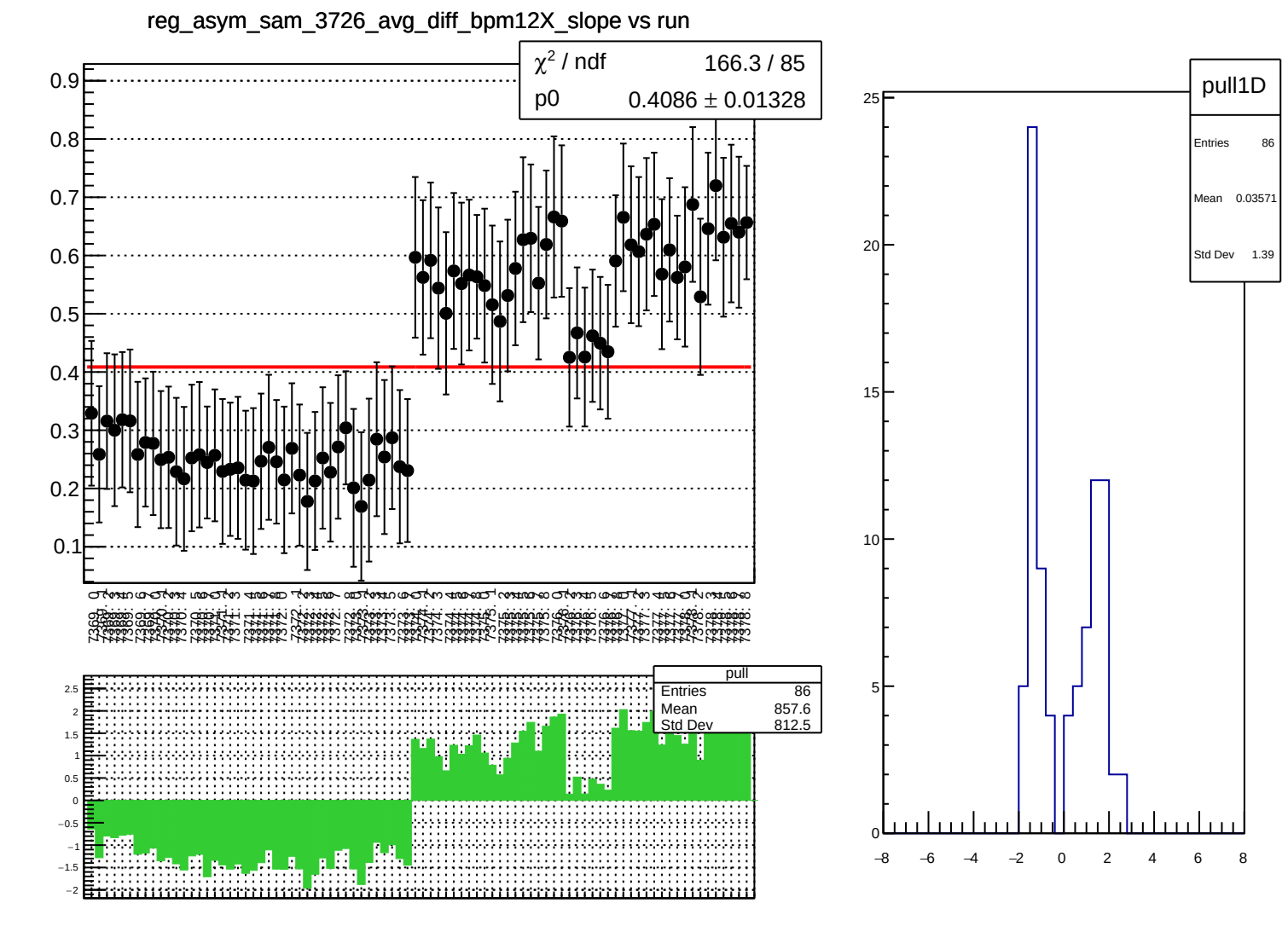

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 488.8 / 85
p0 −22.13 ± 0.245
pull
Entries 86
Mean 60.12
Std Dev 47.85
pull1D
Entries 86
Mean 0.2045
Std Dev 2.375

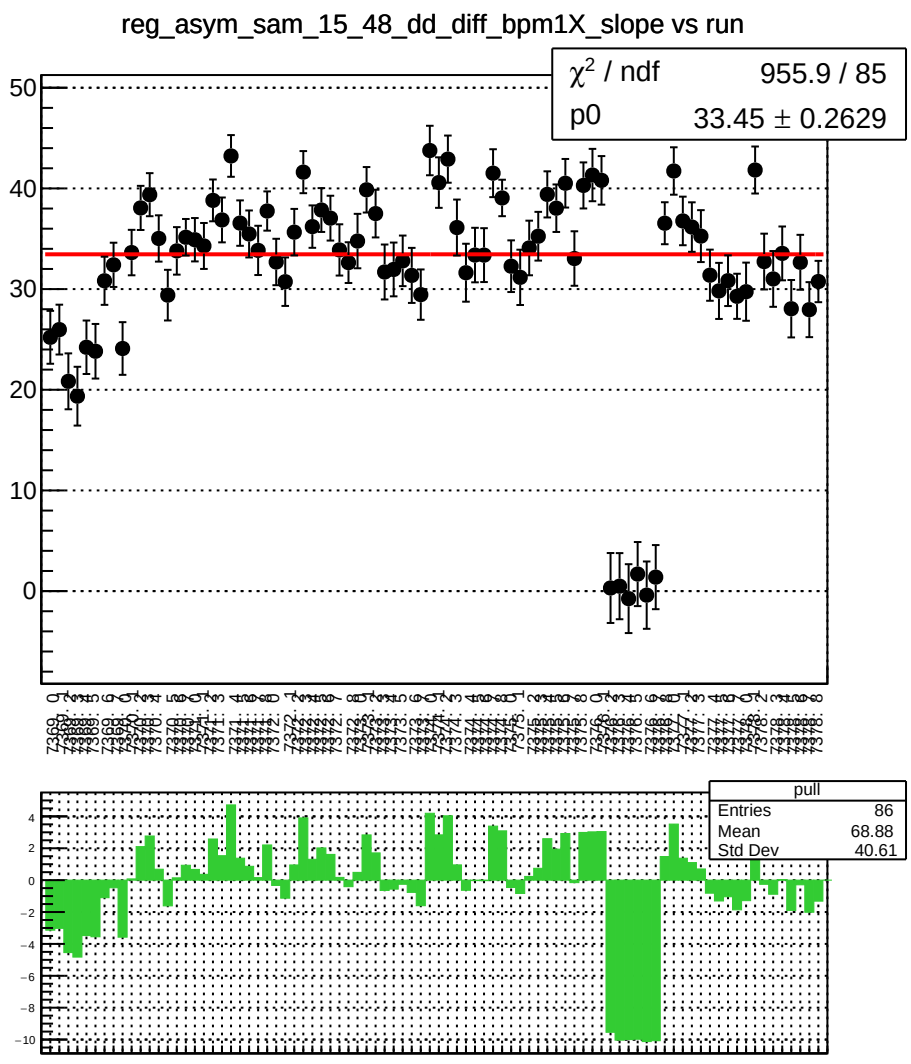

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 228 / 85
p0 14.75 ± 0.2696
pull
Entries 86
Mean −95.88
Std Dev 149.3

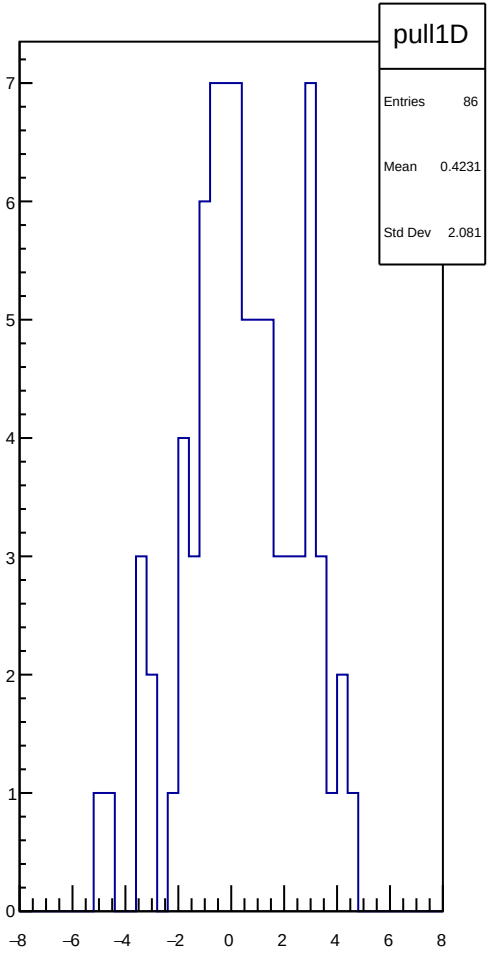

pull1D
Entries 86
Mean 0.04793
Std Dev 1.628

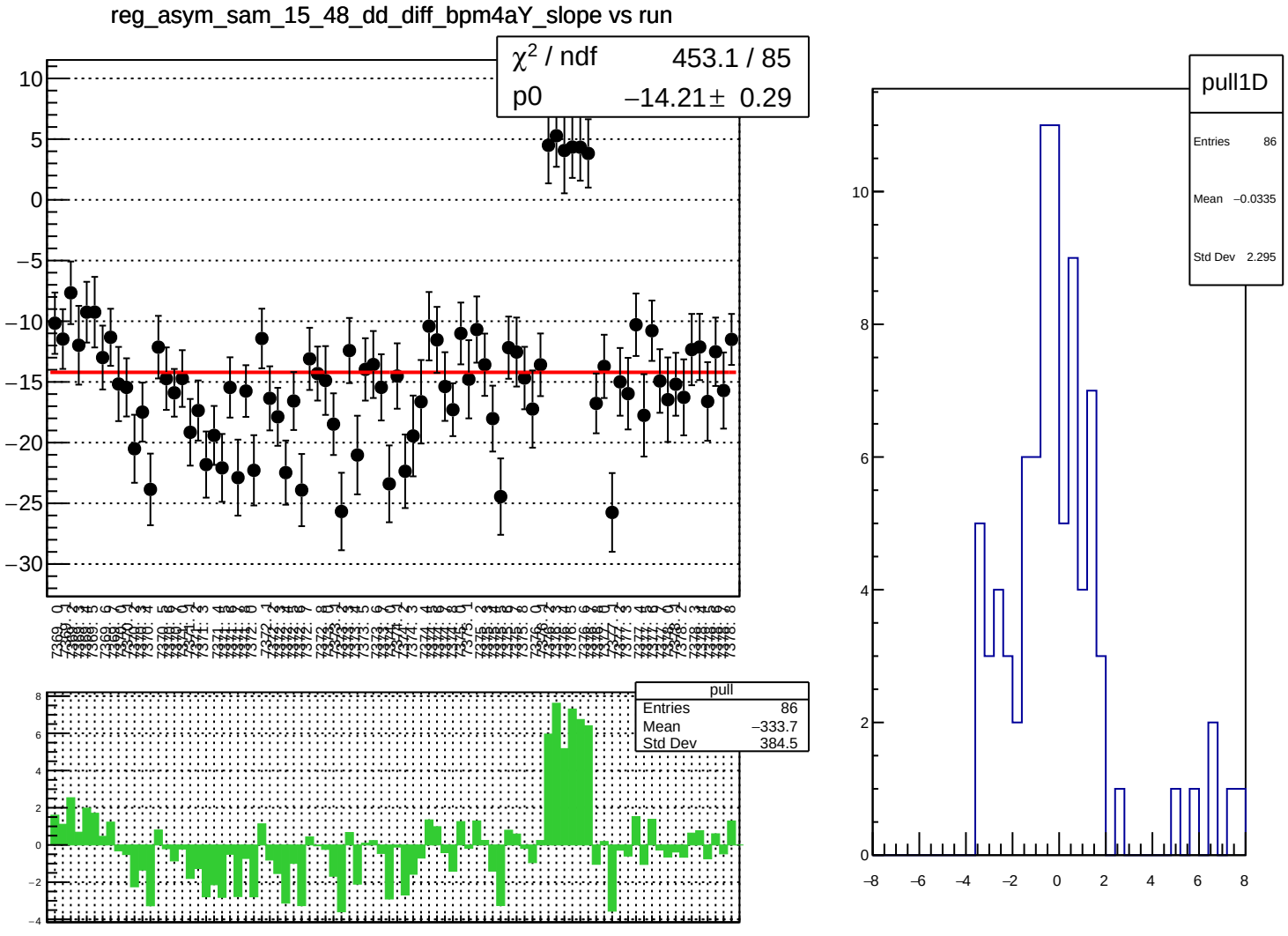

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 318.4 / 85
p0 −26.1 ± 0.2547
pull
Entries 86
Mean 100
Std Dev 41.75
pull1D
Entries 86
Mean −0.1983
Std Dev 1.914

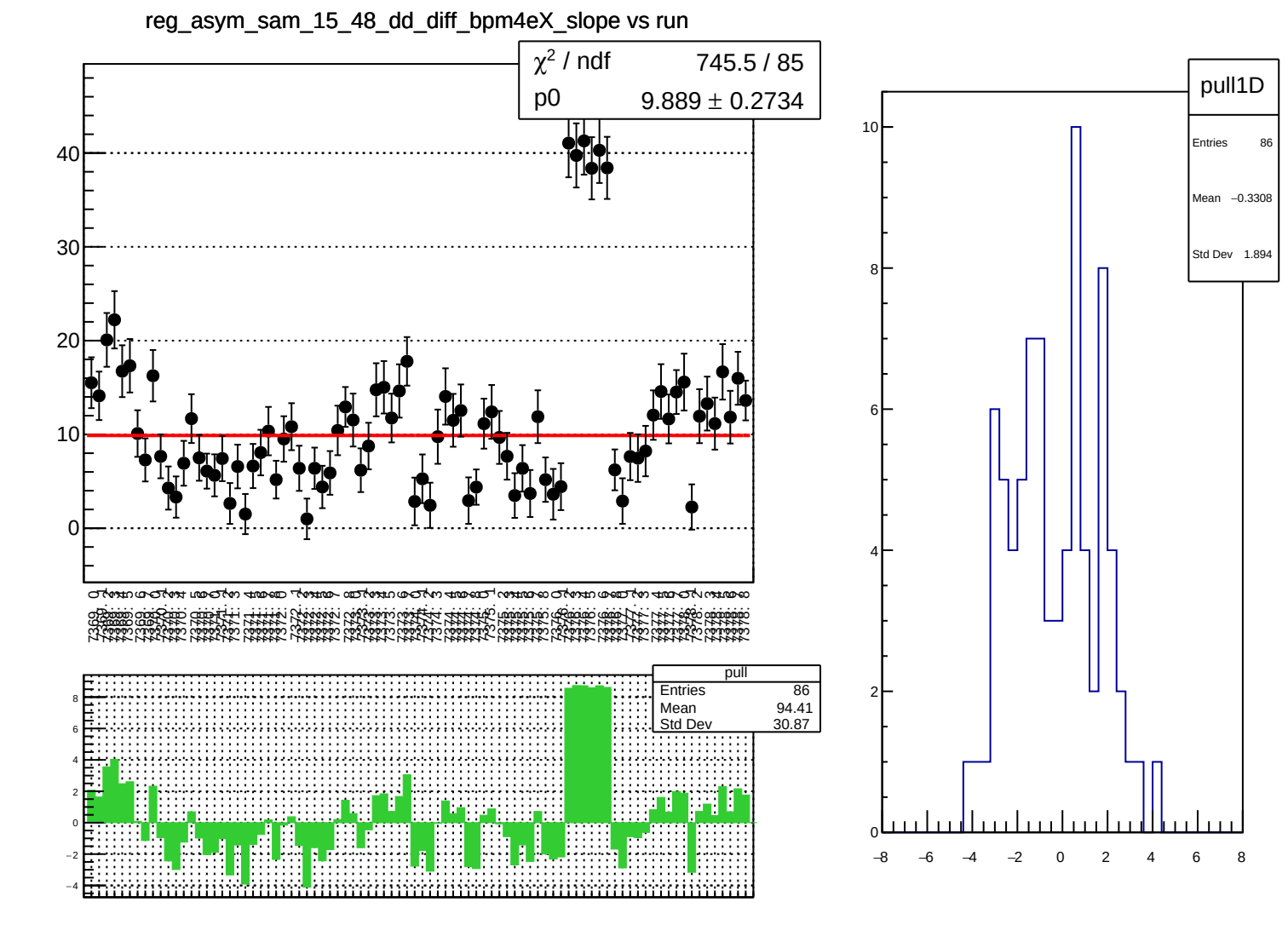

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 214.8 / 85
p0 −19.14 ± 0.2885
pull
Entries 86
Mean −328.9
Std Dev 377.5
pull1D
Entries 86
Mean −0.02879
Std Dev 1.58

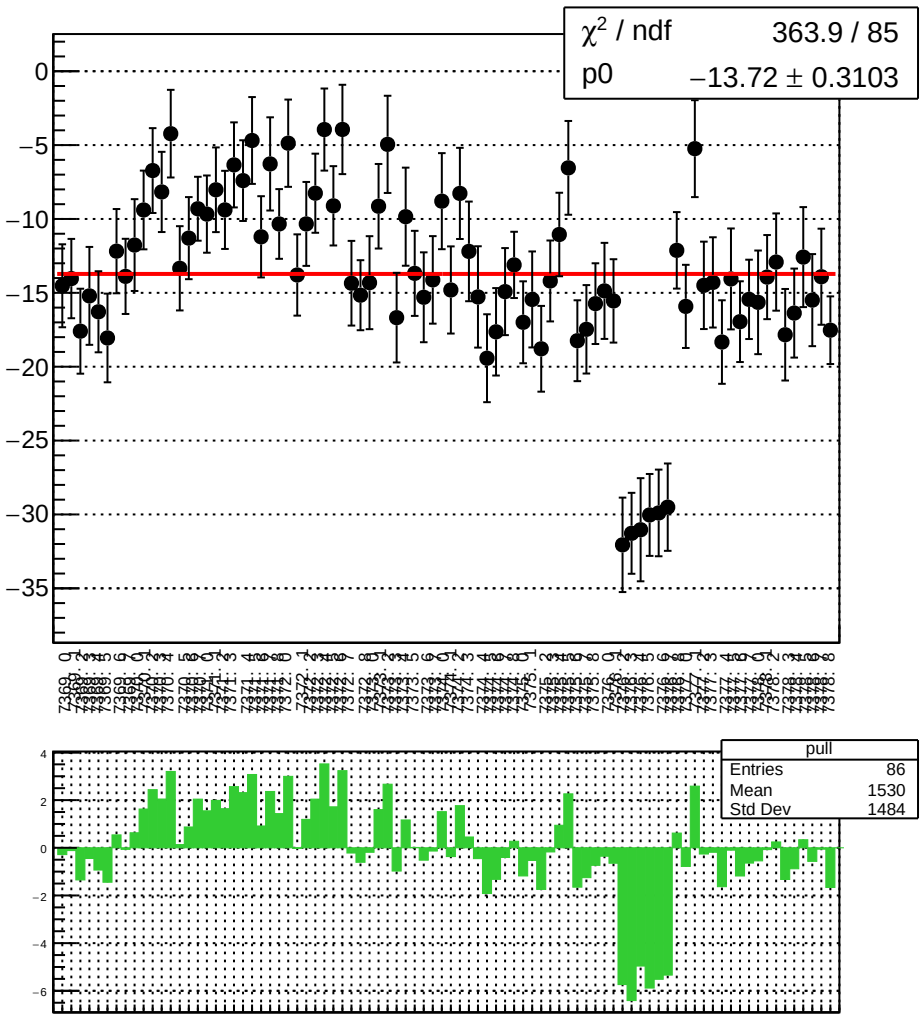

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 166.3 / 85
p0 0.4086 ± 0.01328
pull
Entries 86
Mean 857.6
Std Dev 812.5
pull1D
Entries 86
Mean 0.03571
Std Dev 1.39

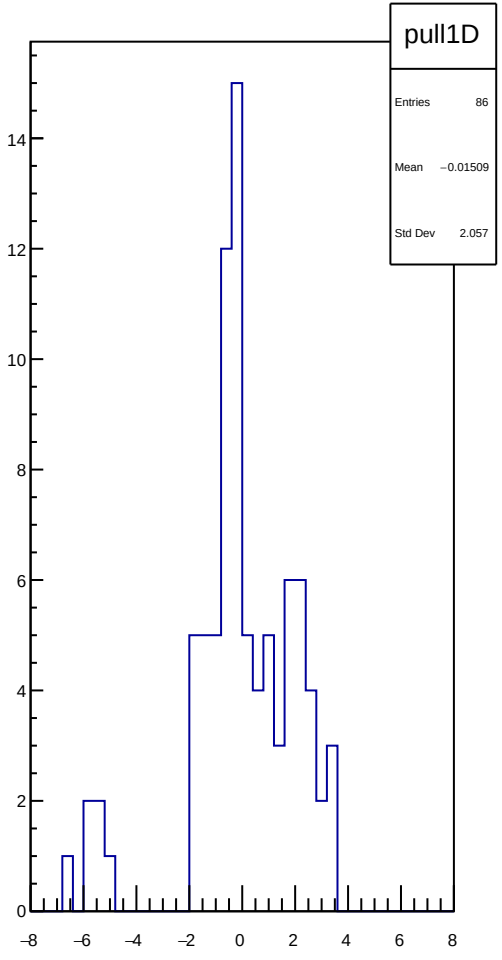

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 955.9 / 85
p0 33.45 ± 0.2629
pull
Entries 86
Mean 68.88
Std Dev 40.61

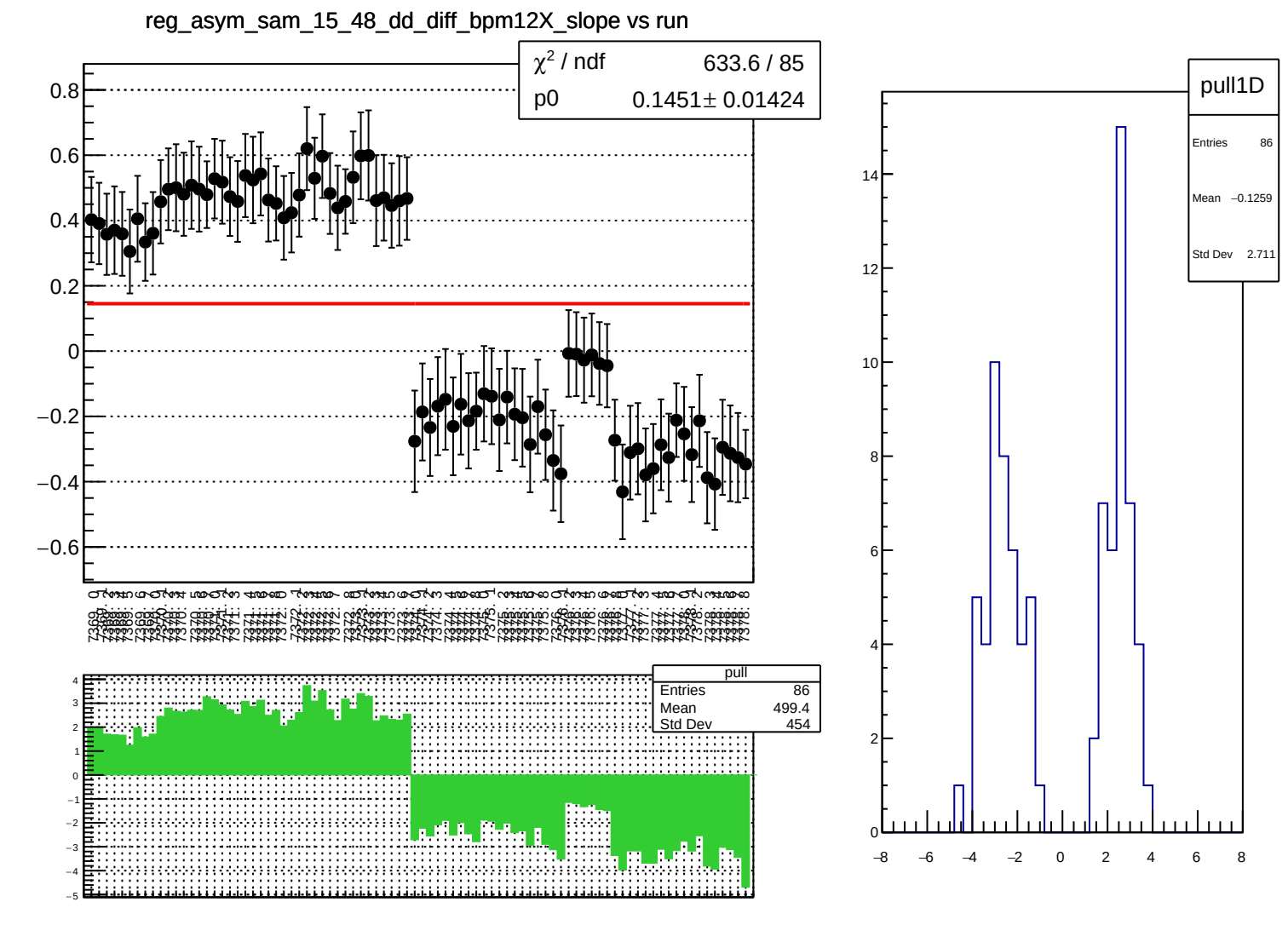

pull1D
Entries 86
Mean 0.4231
Std Dev 2.081

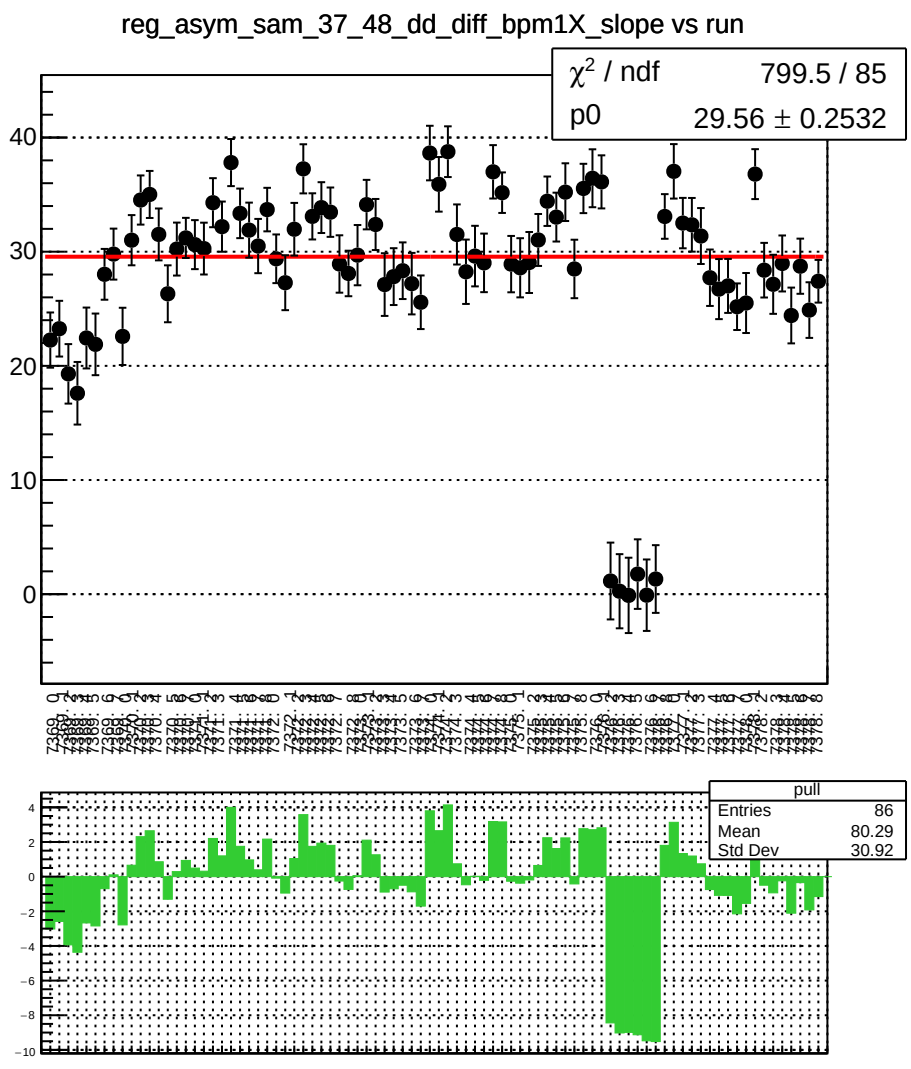

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 453.1 / 85
p0 −14.21 ± 0.29
pull
Entries 86
Mean −333.7
Std Dev 384.5
pull1D
Entries 86
Mean −0.0335
Std Dev 2.295

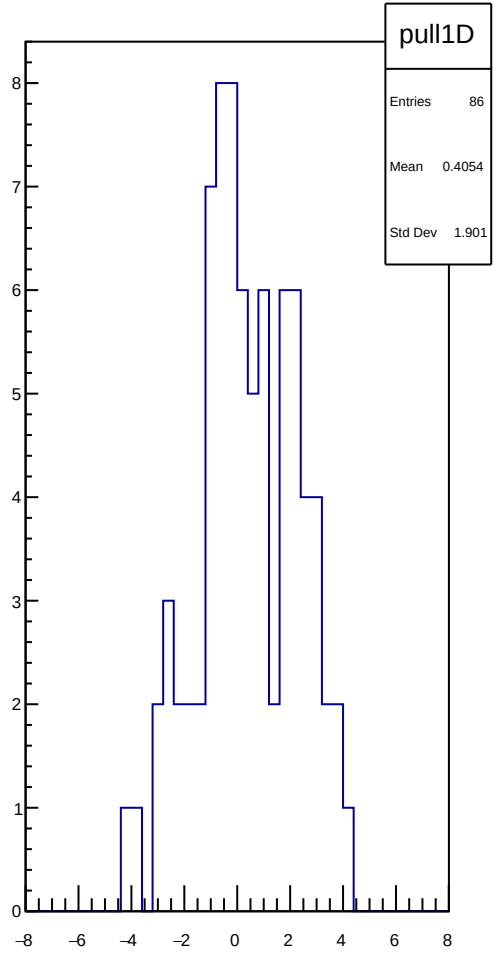

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 745.5 / 85
p0 9.889 ± 0.2734
pull
Entries 86
Mean 94.41
Std Dev 30.87
pull1D
Entries 86
Mean −0.3308
Std Dev 1.894

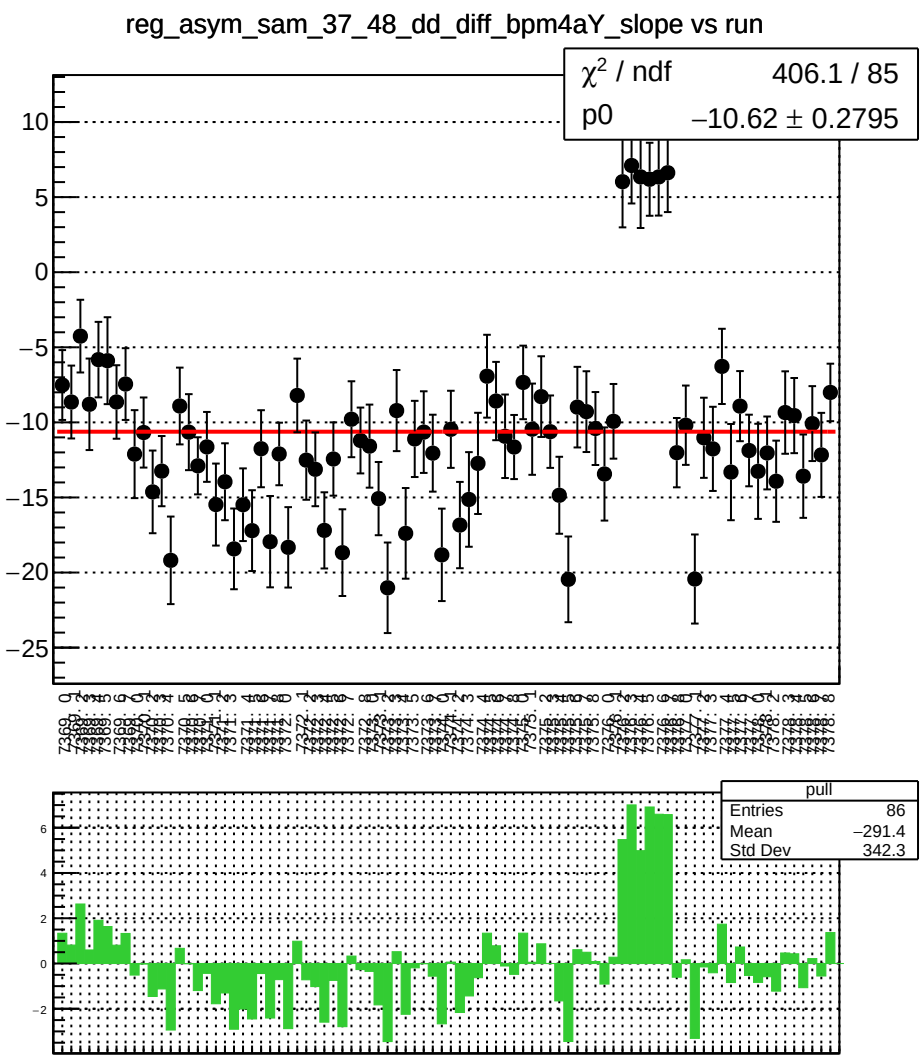

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 363.9 / 85
p0 −13.72 ± 0.3103
pull
Entries 86
Mean 1530
Std Dev 1484

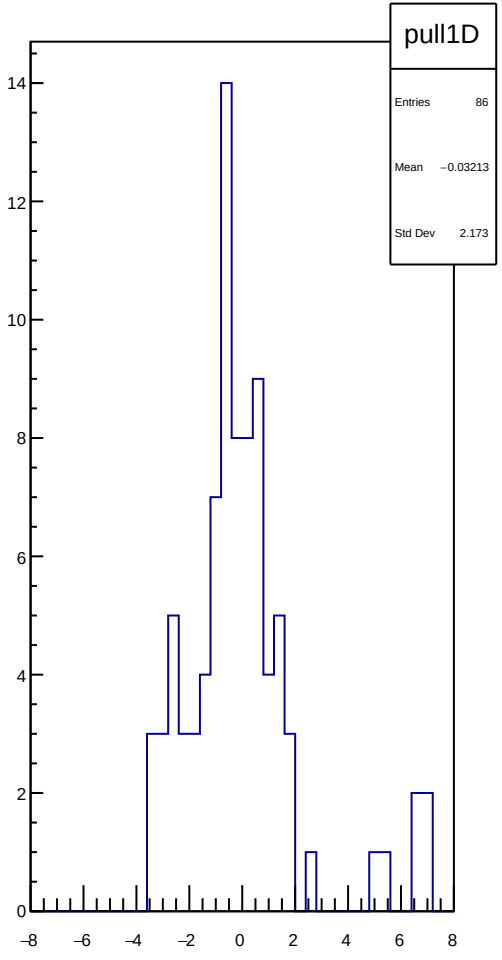

pull1D
Entries 86
Mean −0.01509
Std Dev 2.057

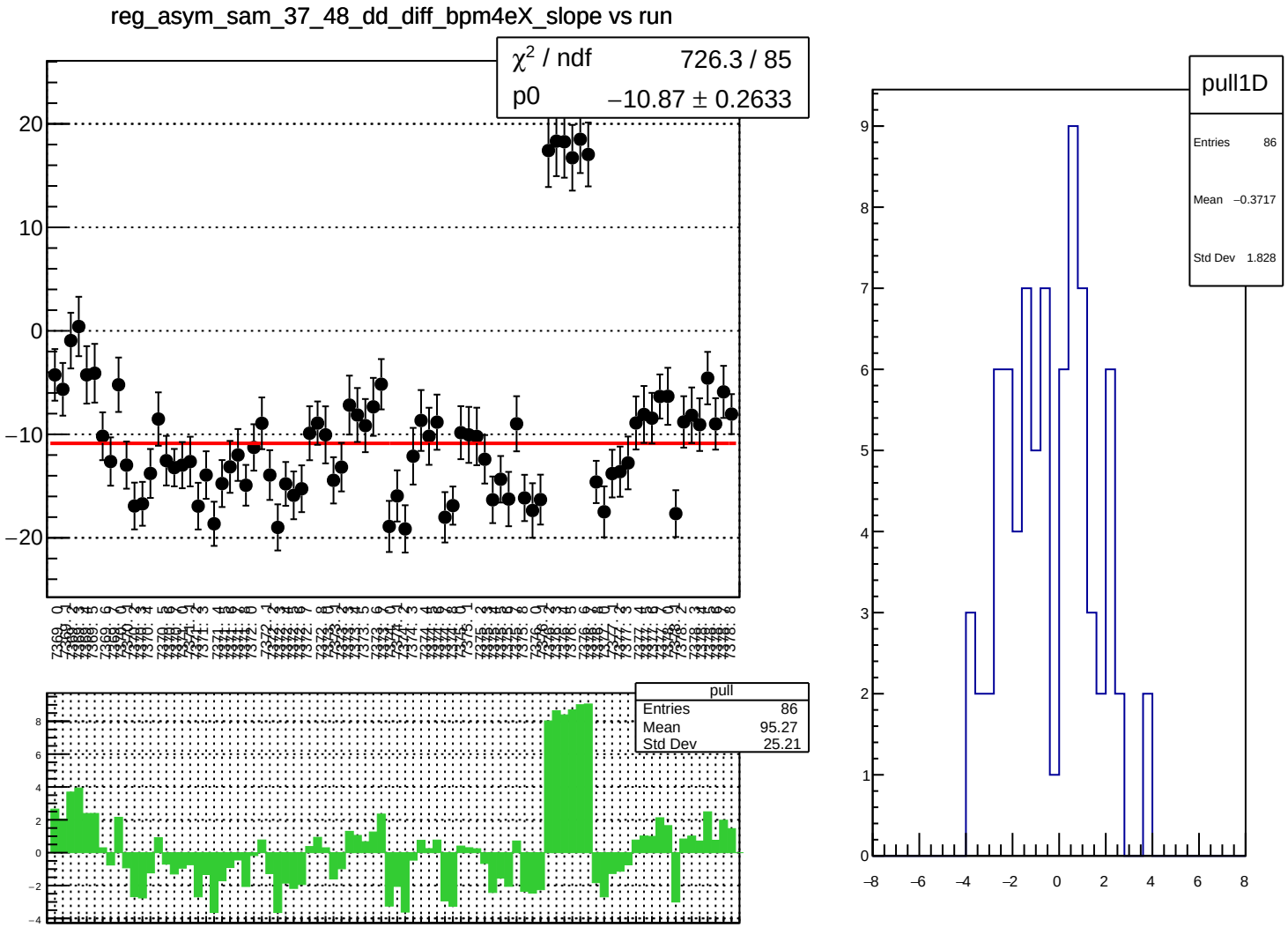

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 633.6 / 85
p0 0.1451± 0.01424
pull
Entries 86
Mean 499.4
Std Dev 454
pull1D
Entries 86
Mean −0.1259
Std Dev 2.711

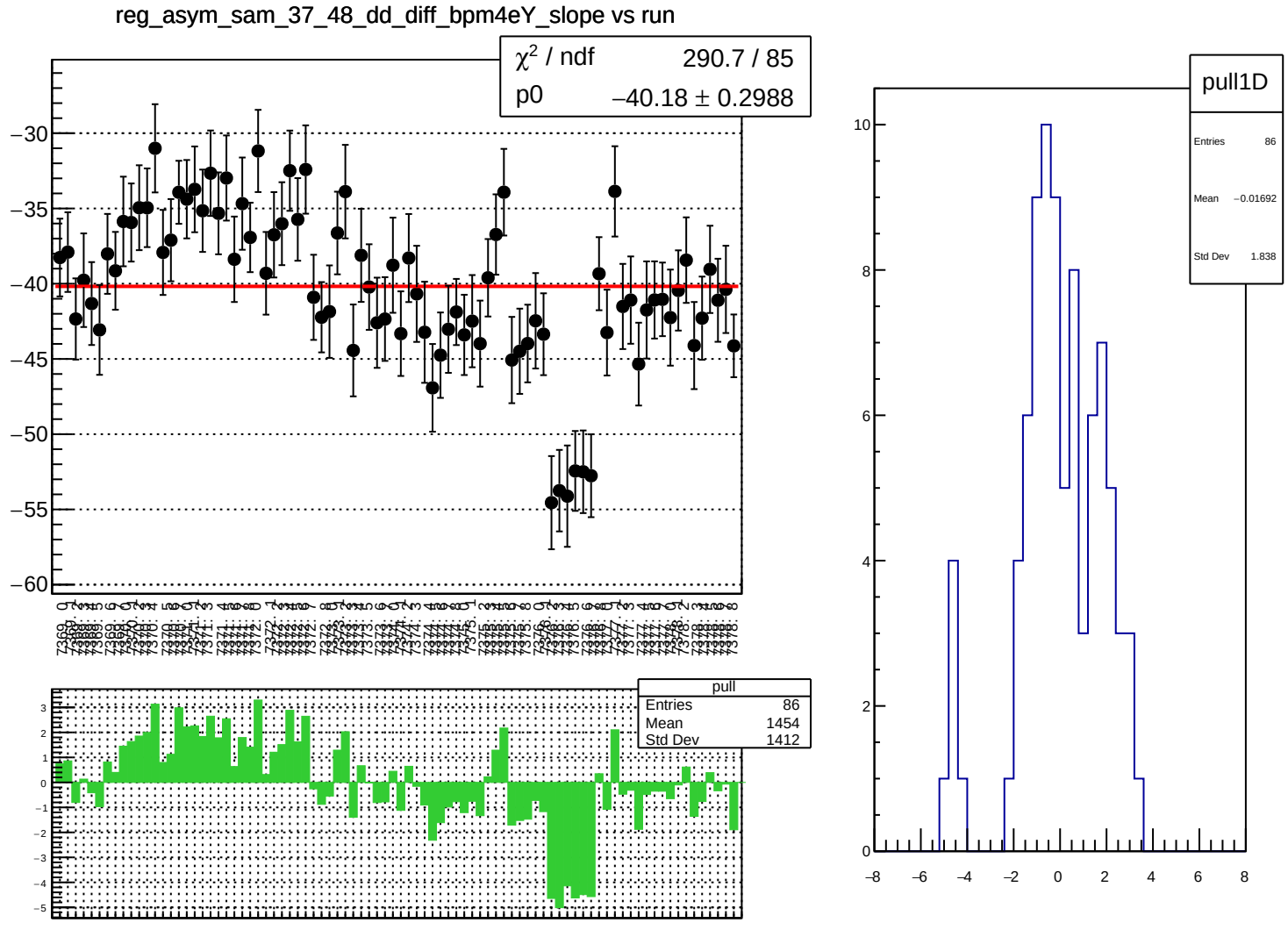

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 799.5 / 85
p0 29.56 ± 0.2532
pull
Entries 86
Mean 80.29
Std Dev 30.92

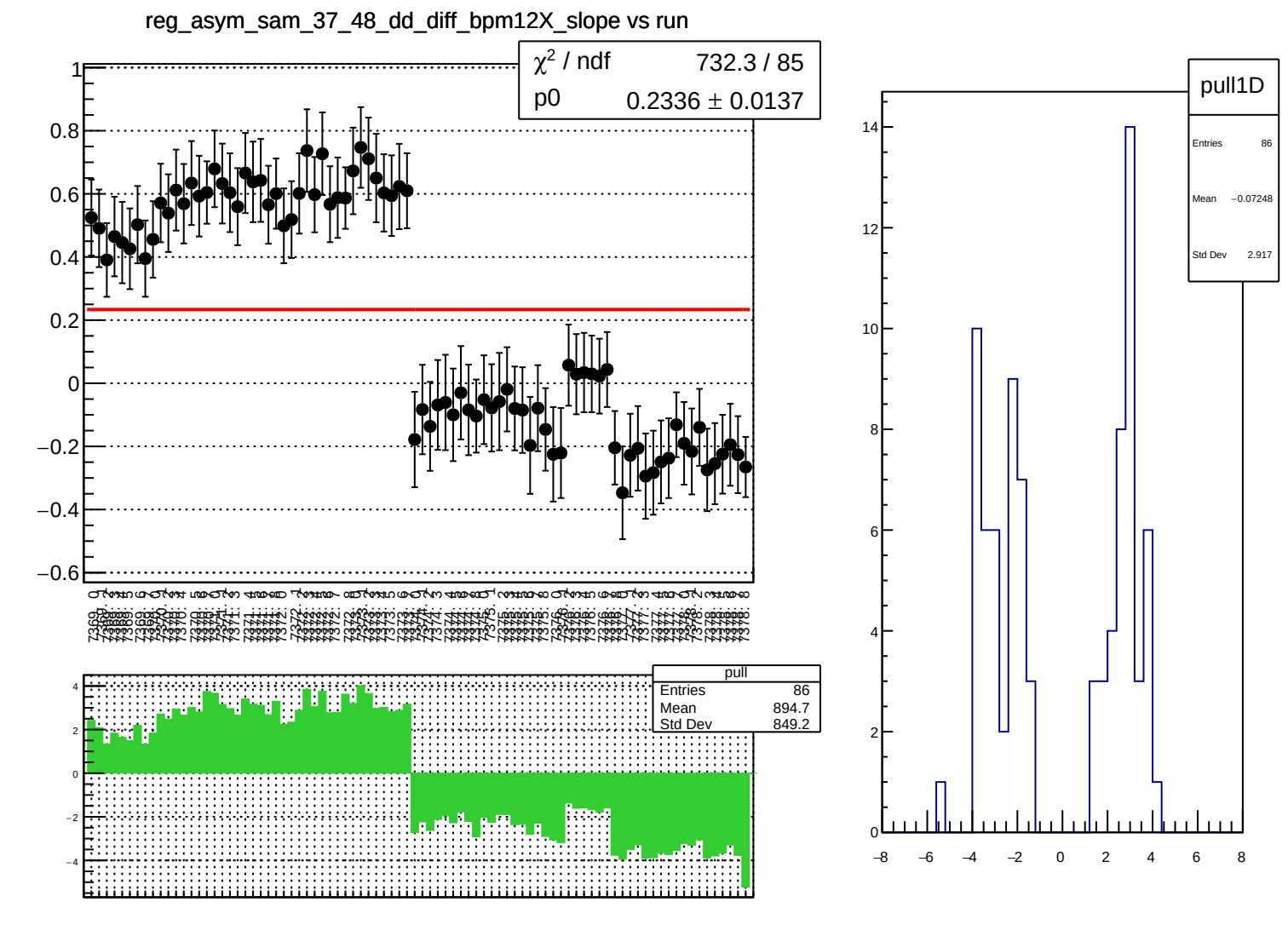

pull1D
Entries 86
Mean 0.4054
Std Dev 1.901

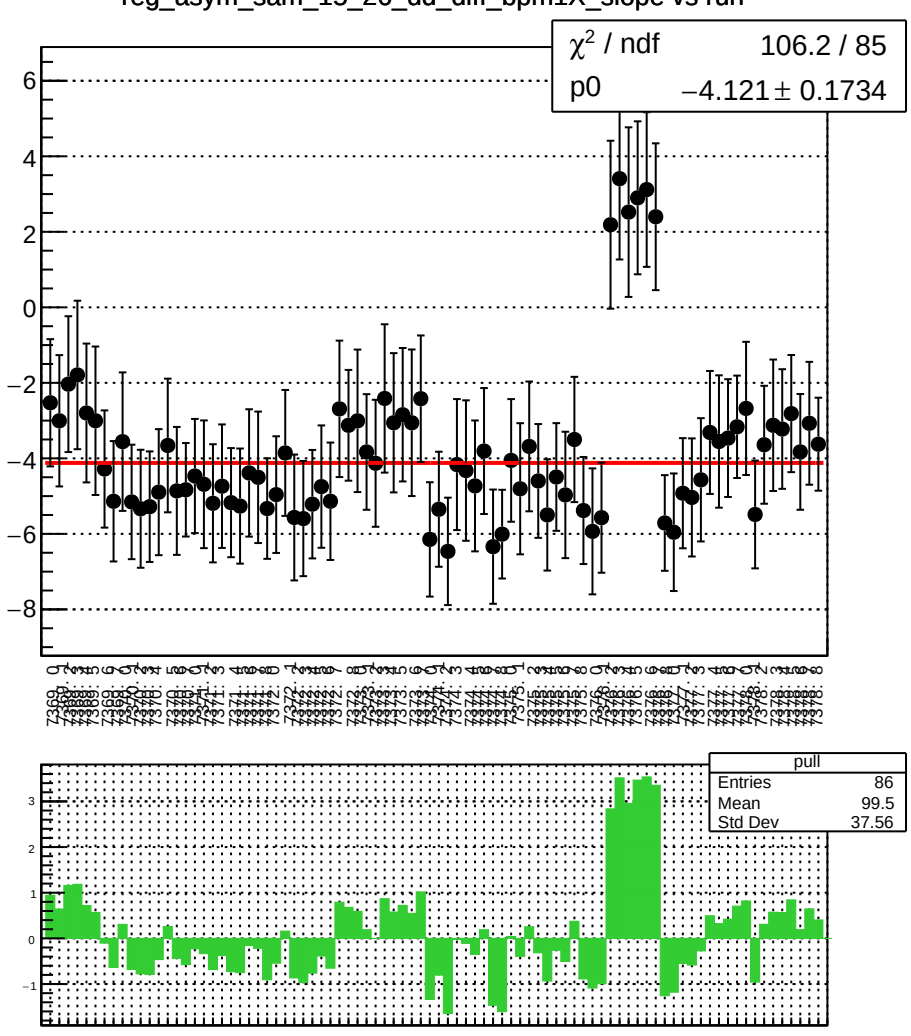

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 406.1 / 85
p0 −10.62 ± 0.2795
pull
Entries 86
Mean −291.4
Std Dev 342.3

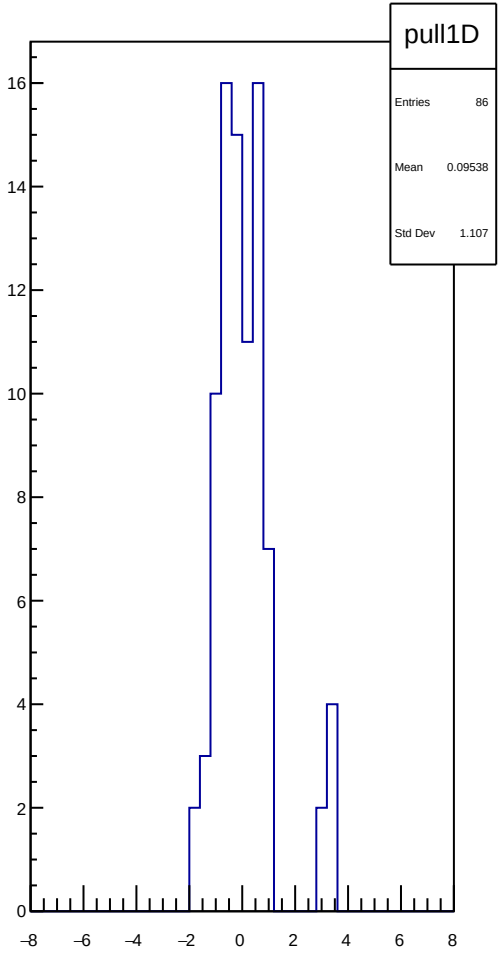

pull1D
Entries 86
Mean −0.03213
Std Dev 2.173

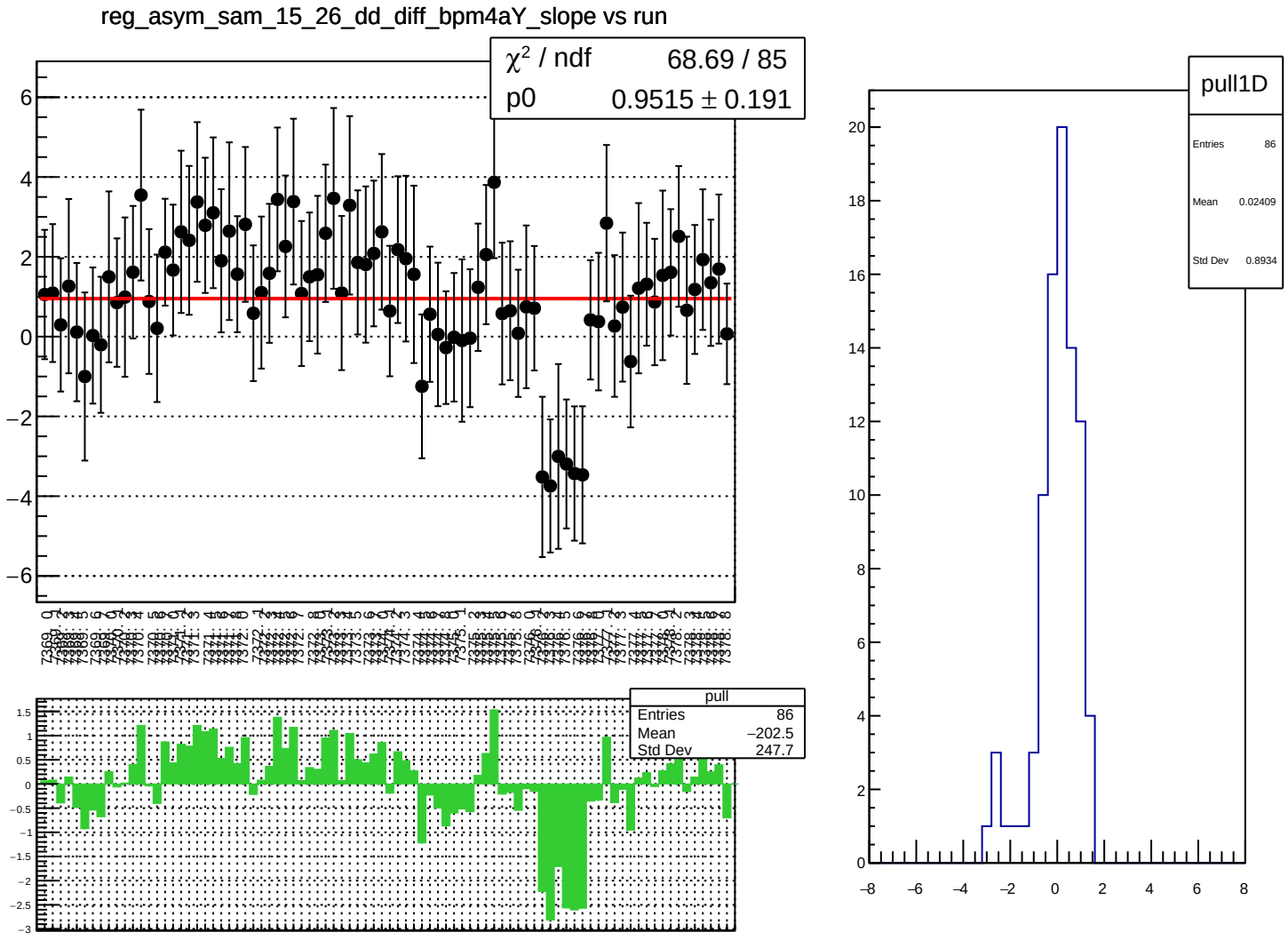

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 726.3 / 85
p0 −10.87 ± 0.2633
pull
Entries 86
Mean 95.27
Std Dev 25.21
pull1D
Entries 86
Mean −0.3717
Std Dev 1.828

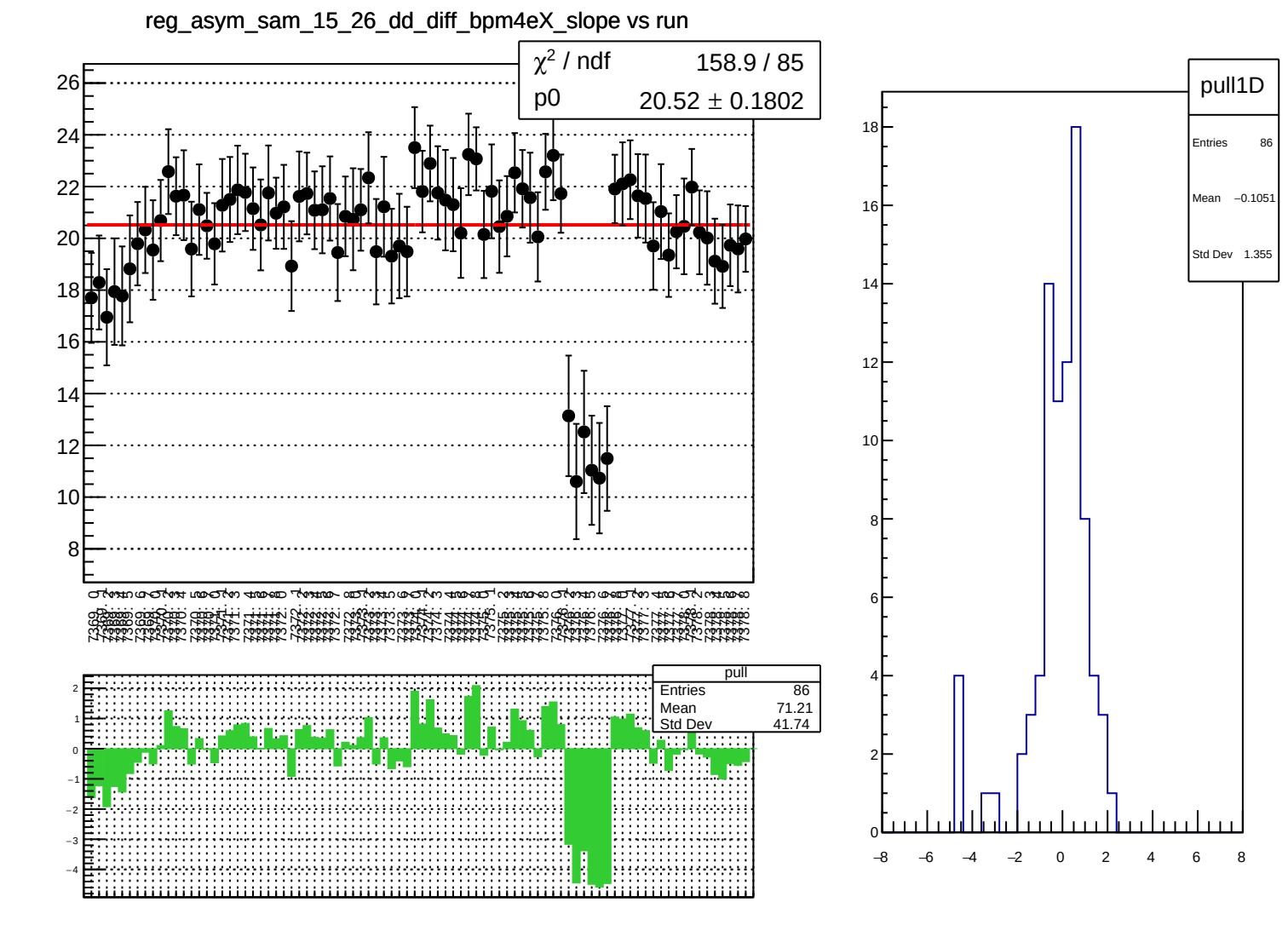

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 290.7 / 85
p0 −40.18 ± 0.2988
pull
Entries 86
Mean 1454
Std Dev 1412
pull1D
Entries 86
Mean −0.01692
Std Dev 1.838

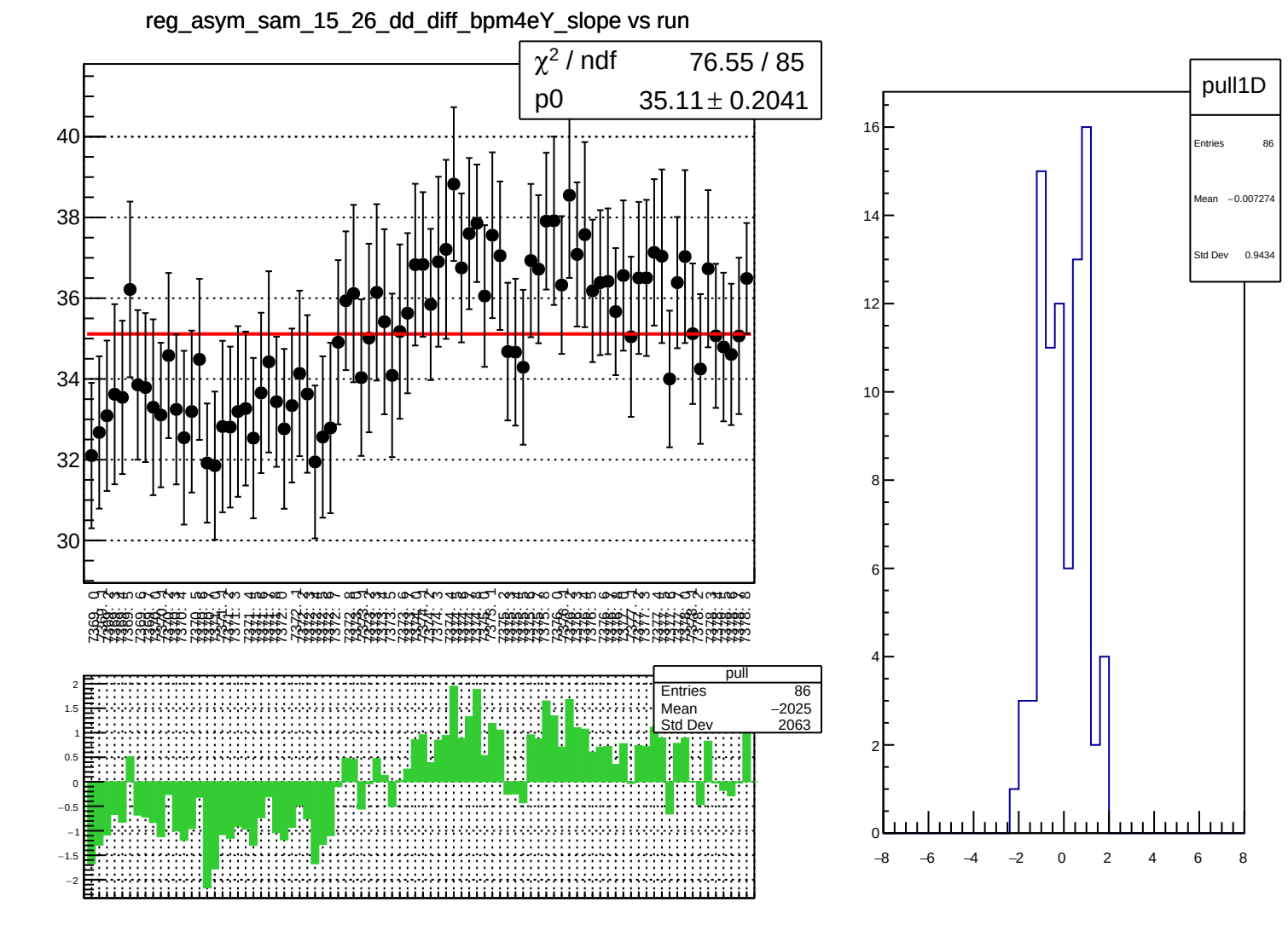

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 732.3 / 85
p0 0.2336 ± 0.0137
pull
Entries 86
Mean 894.7
Std Dev 849.2
pull1D
Entries 86
Mean −0.07248
Std Dev 2.917

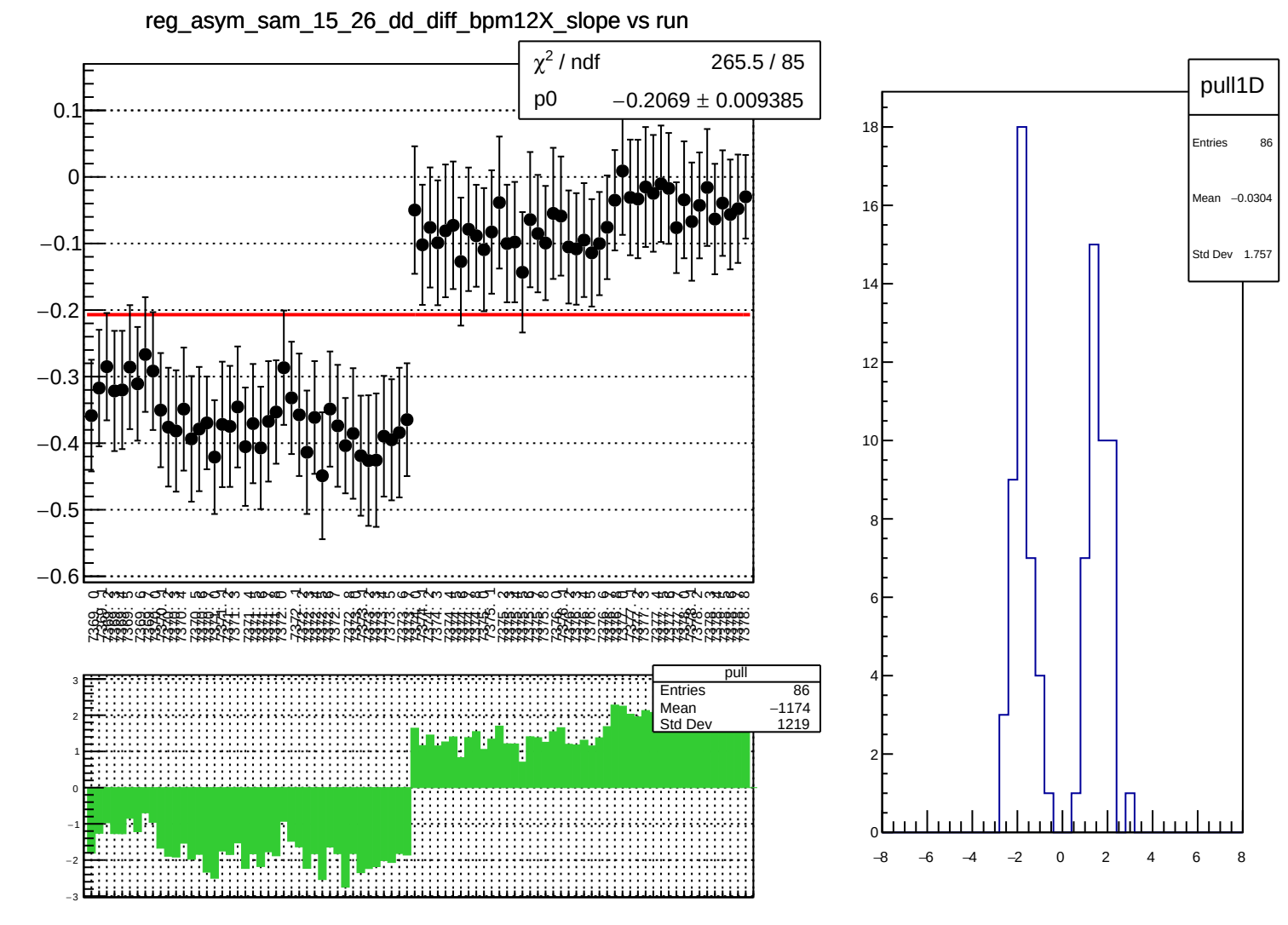

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 106.2 / 85
p0 −4.121 ± 0.1734
pull
Entries 86
Mean 99.5
Std Dev 37.56

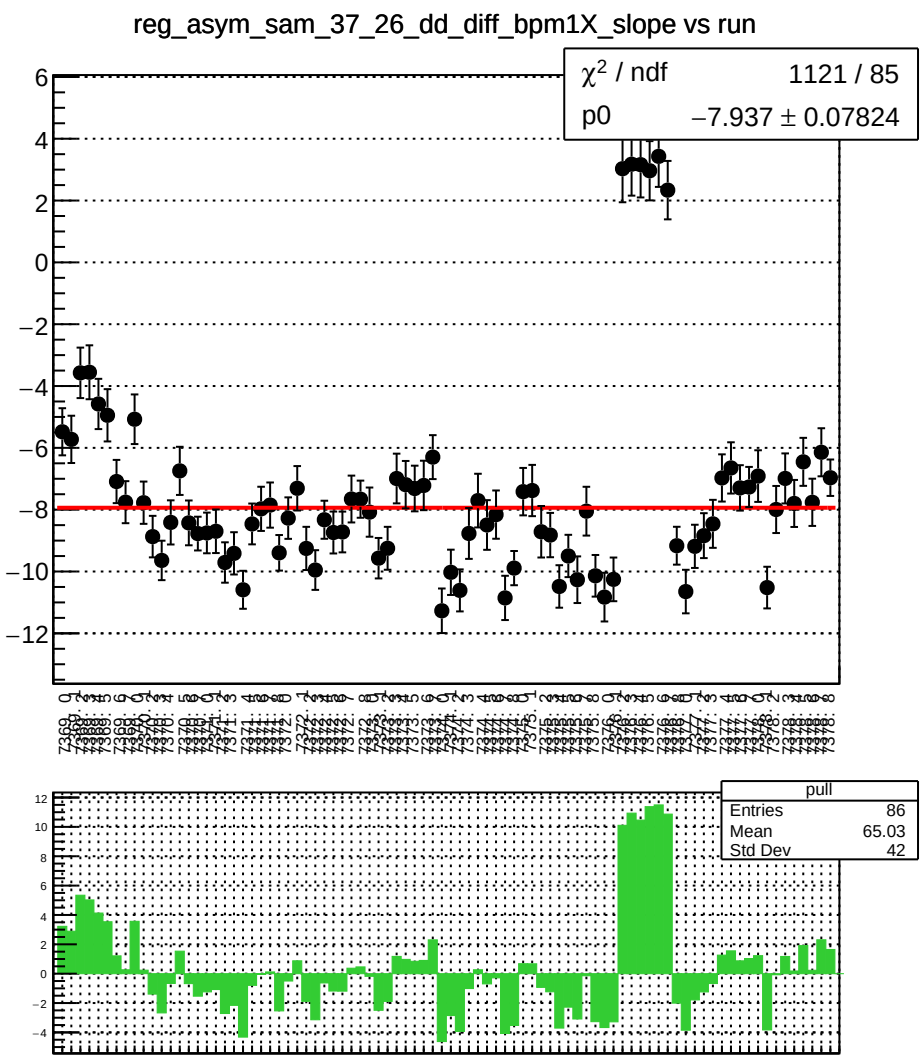

pull1D
Entries 86
Mean 0.09538
Std Dev 1.107

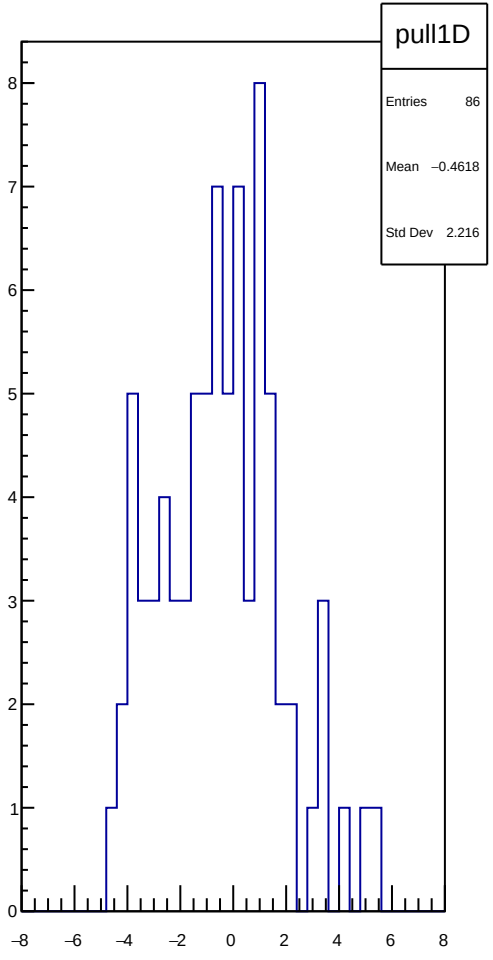

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 68.69 / 85
p0 0.9515 ± 0.191
pull
Entries 86
Mean −202.5
Std Dev 247.7
pull1D
Entries 86
Mean 0.02409
Std Dev 0.8934

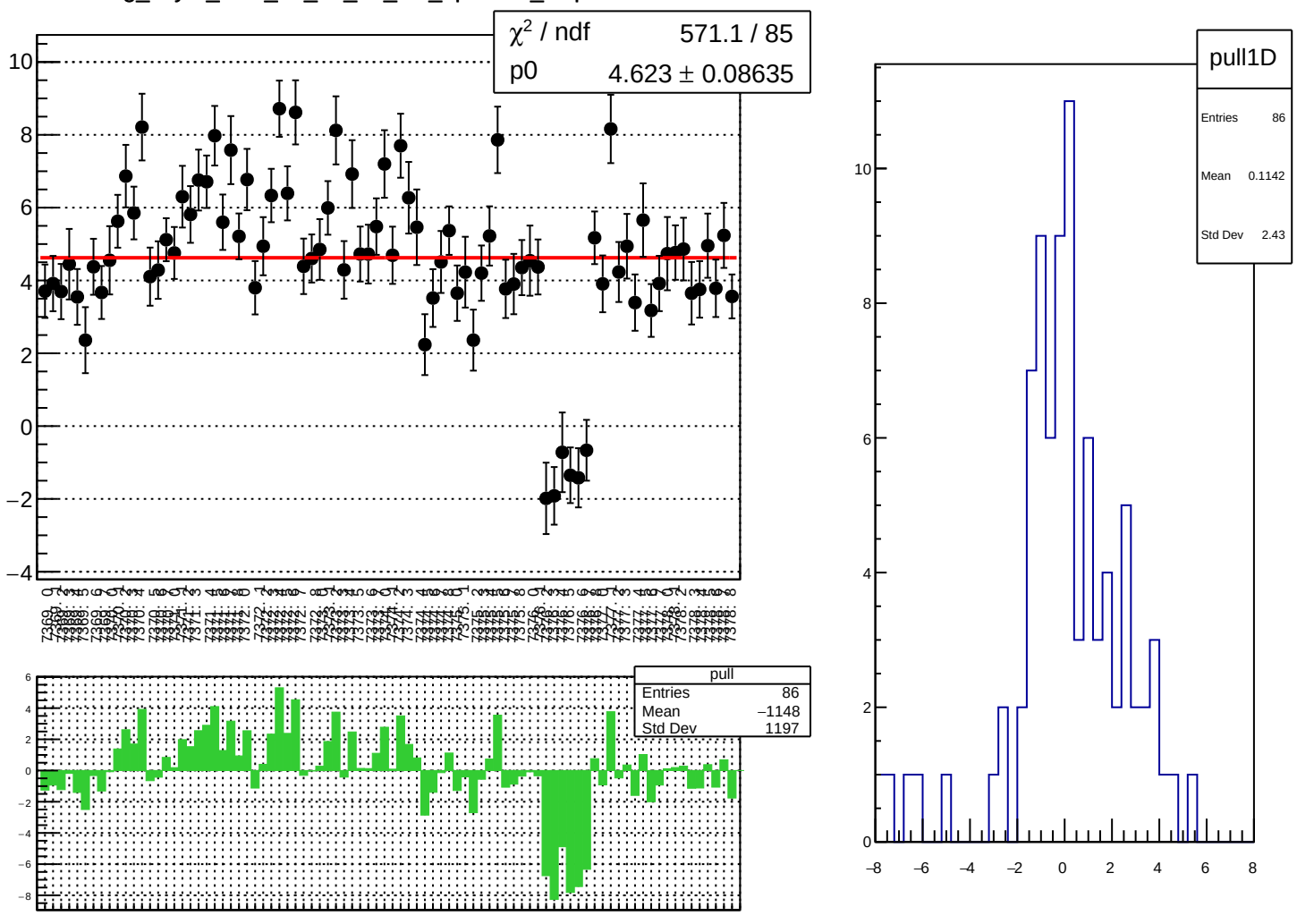

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 158.9 / 85
p0 20.52 ± 0.1802
pull
Entries 86
Mean 71.21
Std Dev 41.74
pull1D
Entries 86
Mean −0.1051
Std Dev 1.355

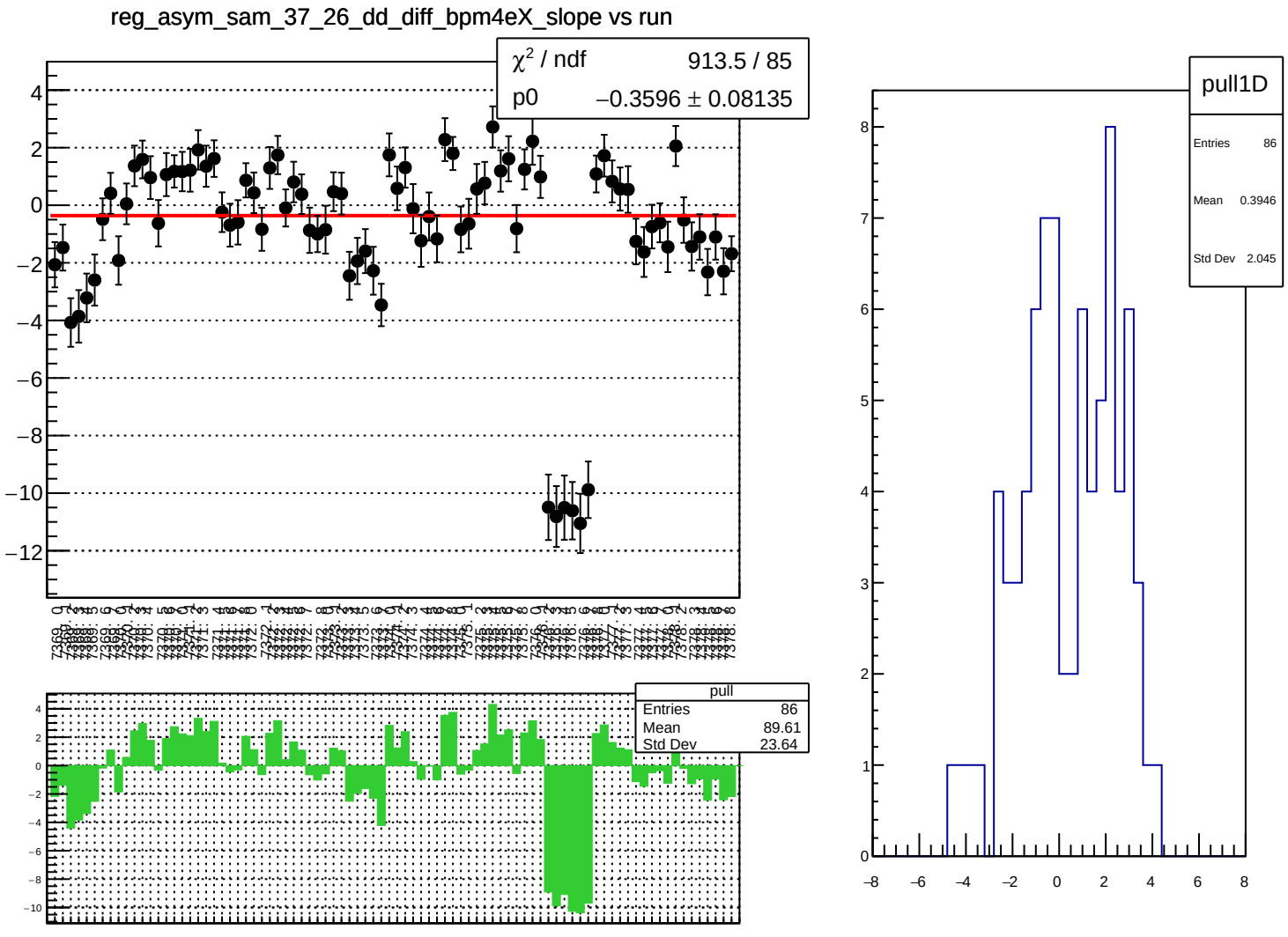

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.55 / 85
p0 35.11 ± 0.2041
pull
Entries 86
Mean −2025
Std Dev 2063
pull1D
Entries 86
Mean −0.007274
Std Dev 0.9434

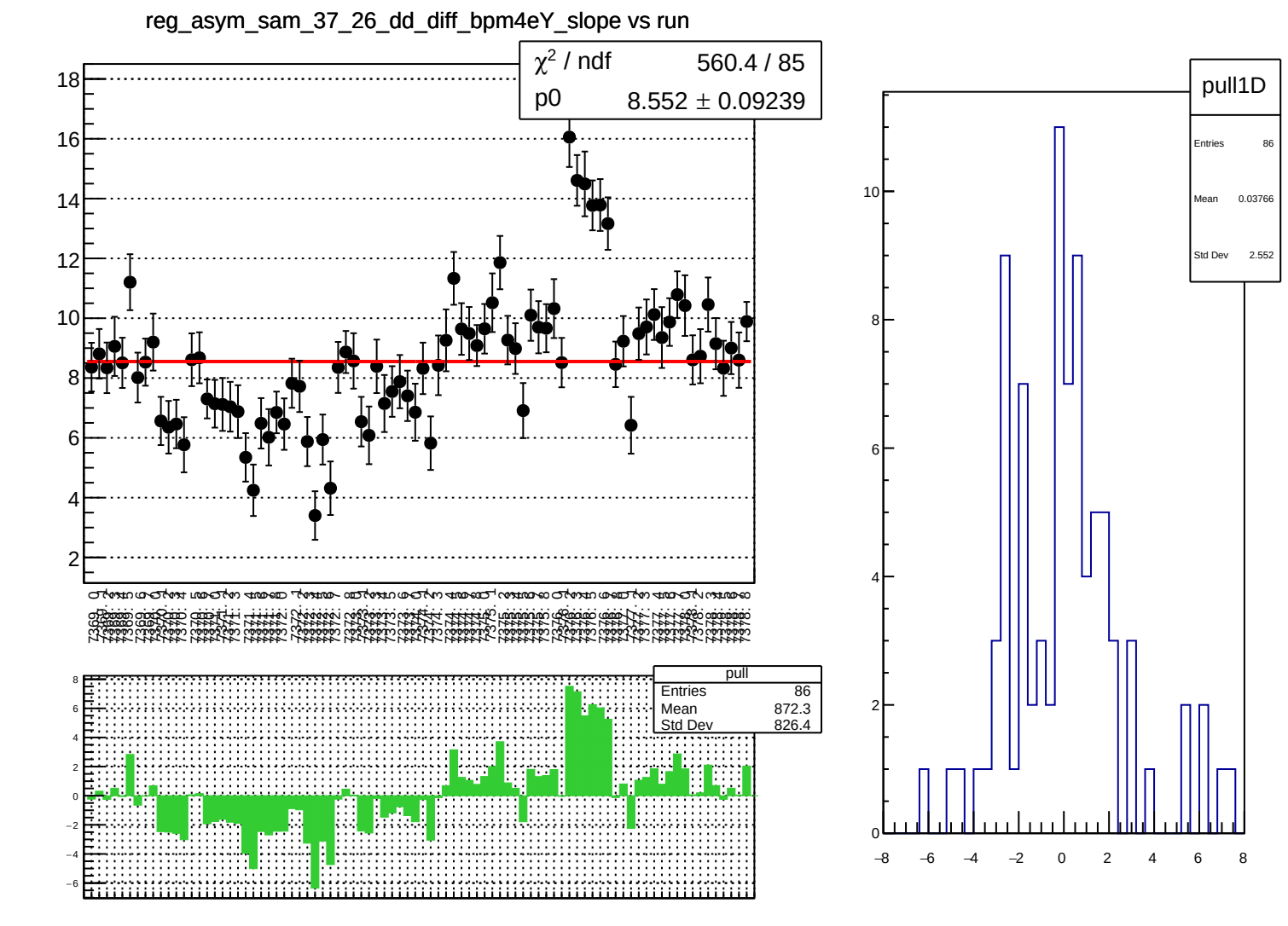

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 265.5 / 85
p0 −0.2069 ± 0.009385
pull
Entries 86
Mean −1174
Std Dev 1219
pull1D
Entries 86
Mean −0.0304
Std Dev 1.757

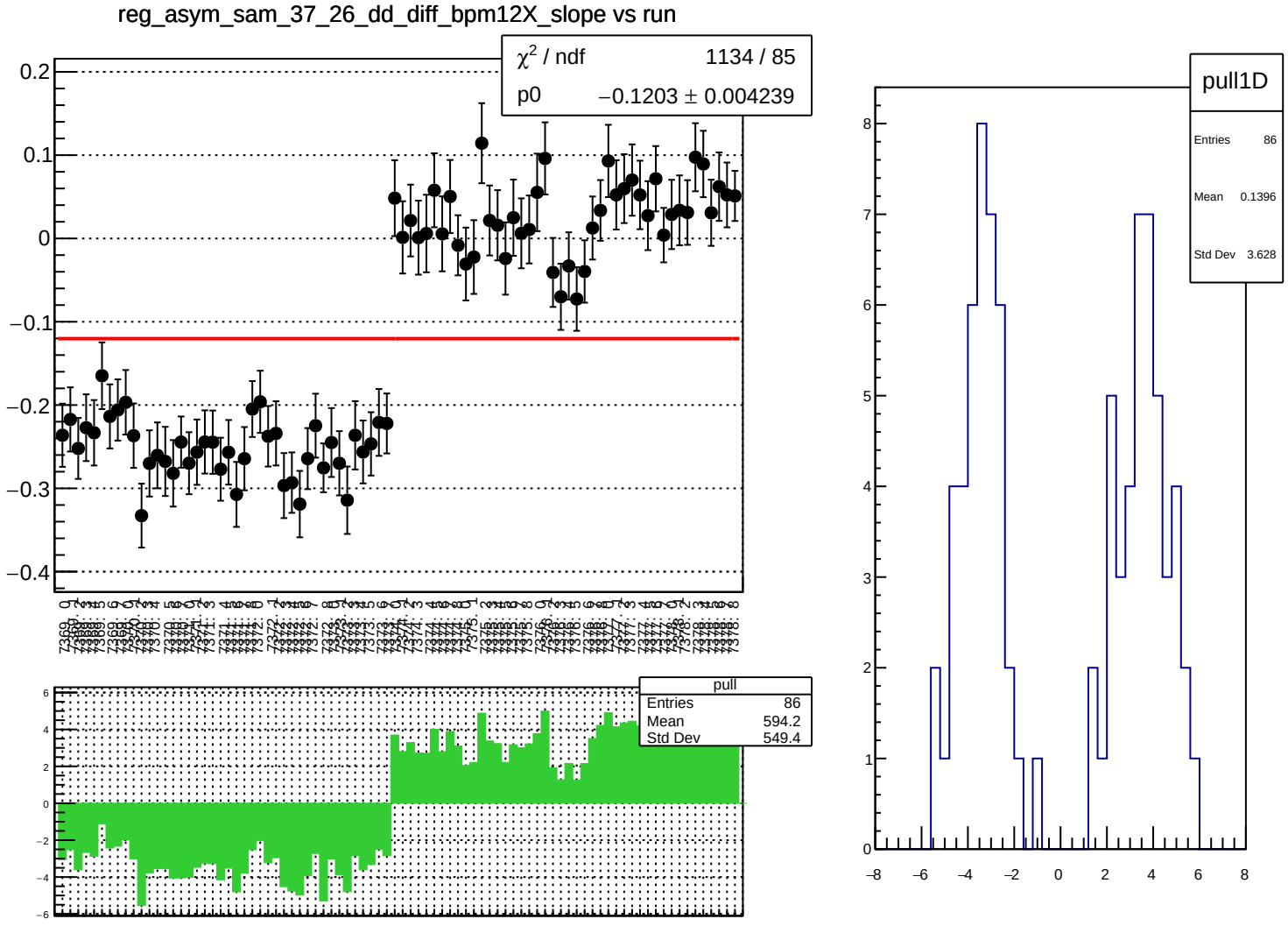

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1121 / 85
p0 −7.937 ± 0.07824
pull
Entries 86
Mean 65.03
Std Dev 42

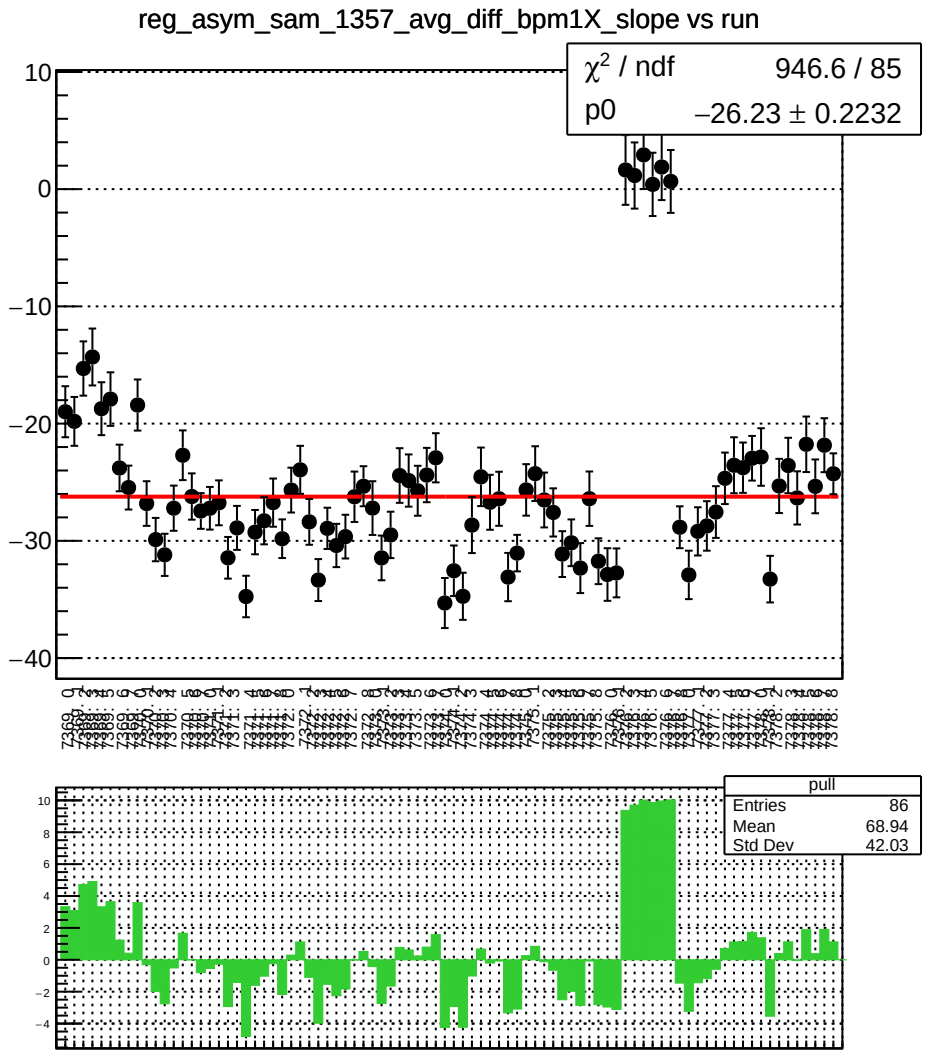

pull1D
Entries 86
Mean −0.4618
Std Dev 2.216

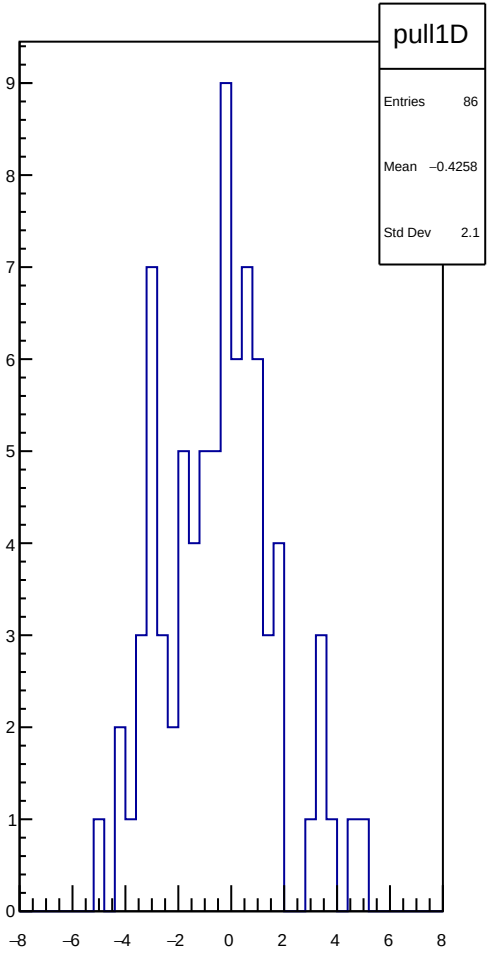

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 571.1 / 85
p0 4.623 ± 0.08635
pull
Entries 86
Mean −1148
Std Dev 1197
pull1D
Entries 86
Mean 0.1142
Std Dev 2.43

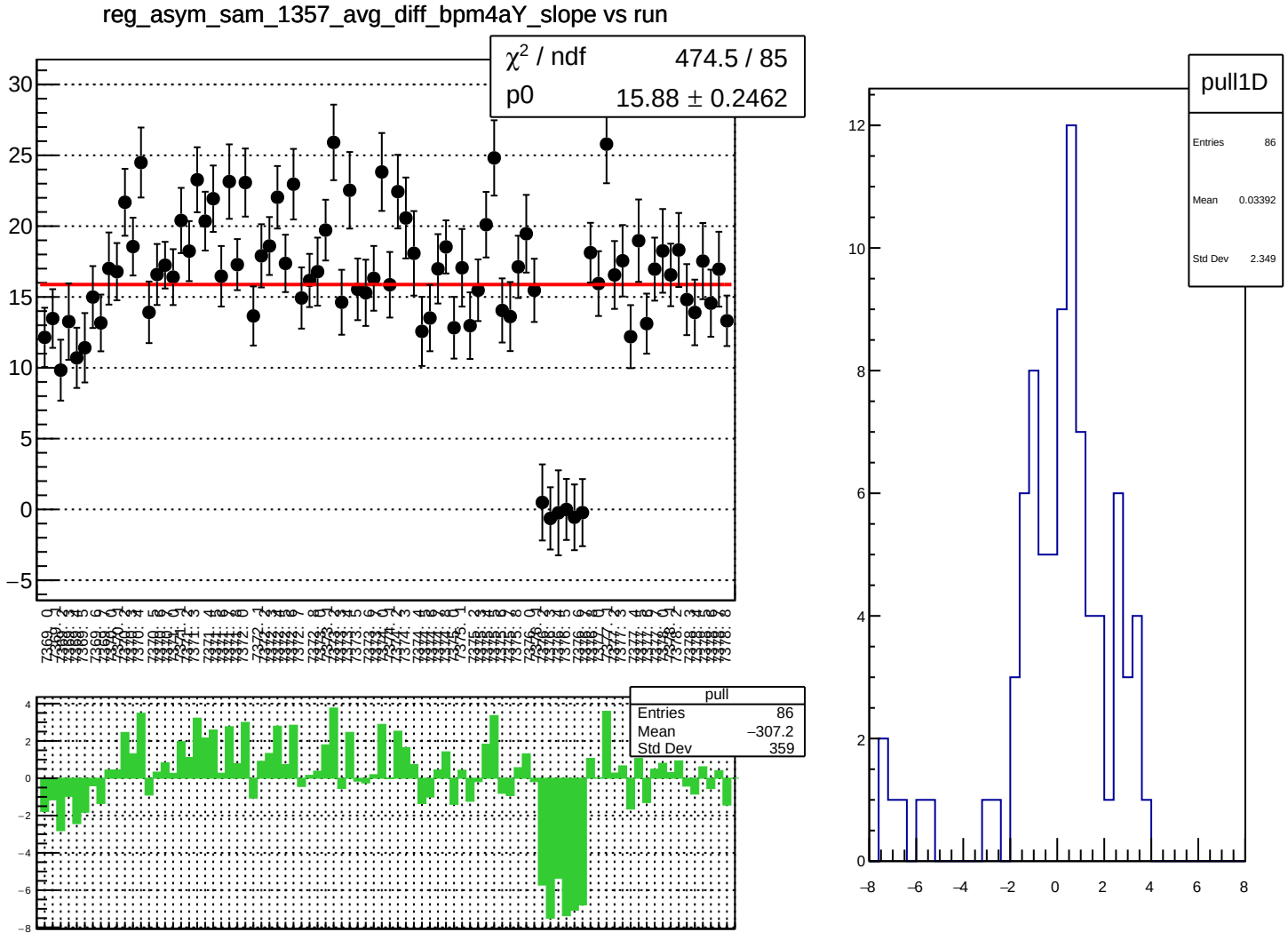

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 913.5 / 85
p0 −0.3596 ± 0.08135
pull
Entries 86
Mean 89.61
Std Dev 23.64
pull1D
Entries 86
Mean 0.3946
Std Dev 2.045

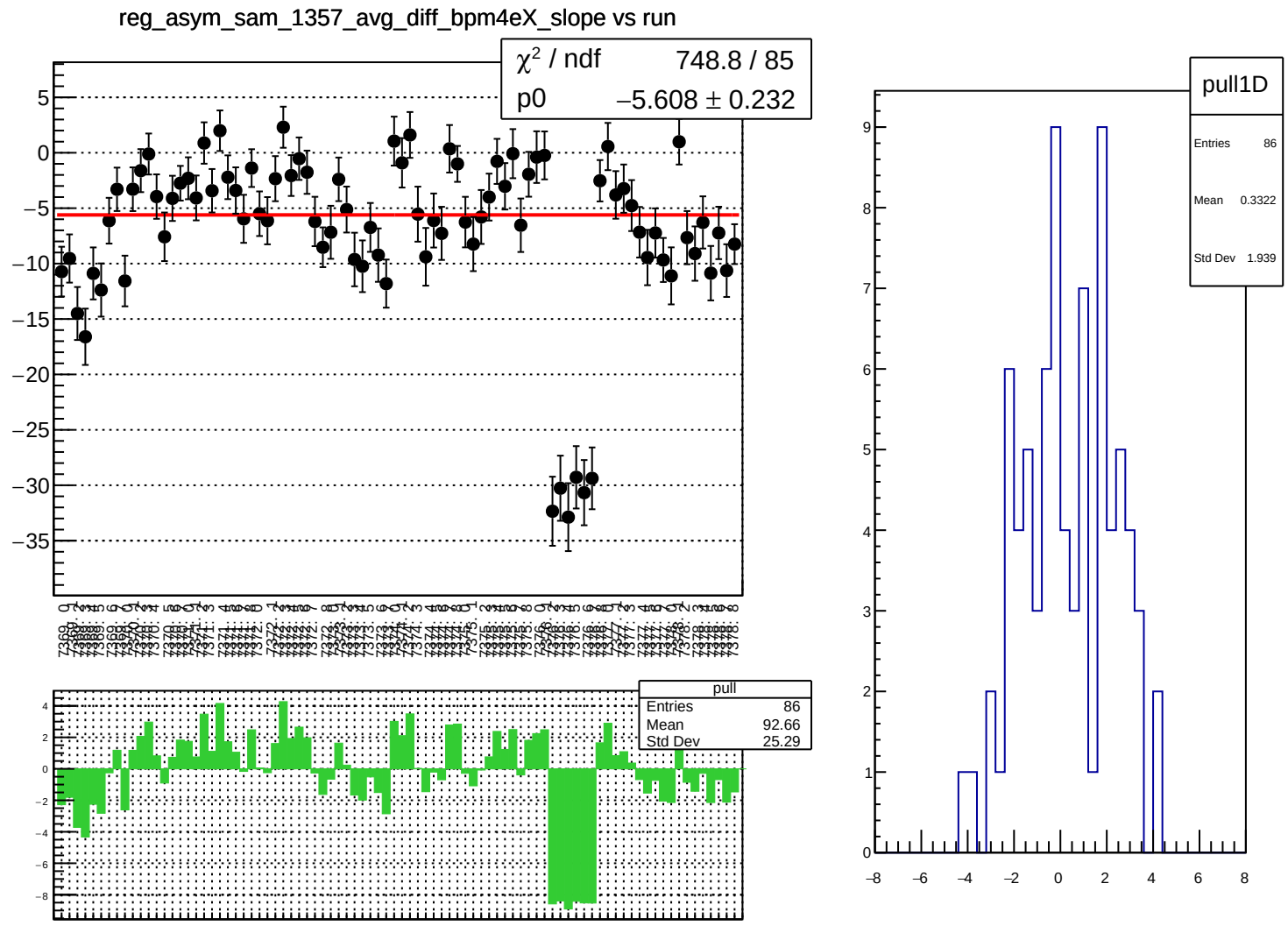

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 560.4 / 85
p0 8.552 ± 0.09239
pull
Entries 86
Mean 872.3
Std Dev 826.4
pull1D
Entries 86
Mean 0.03766
Std Dev 2.552

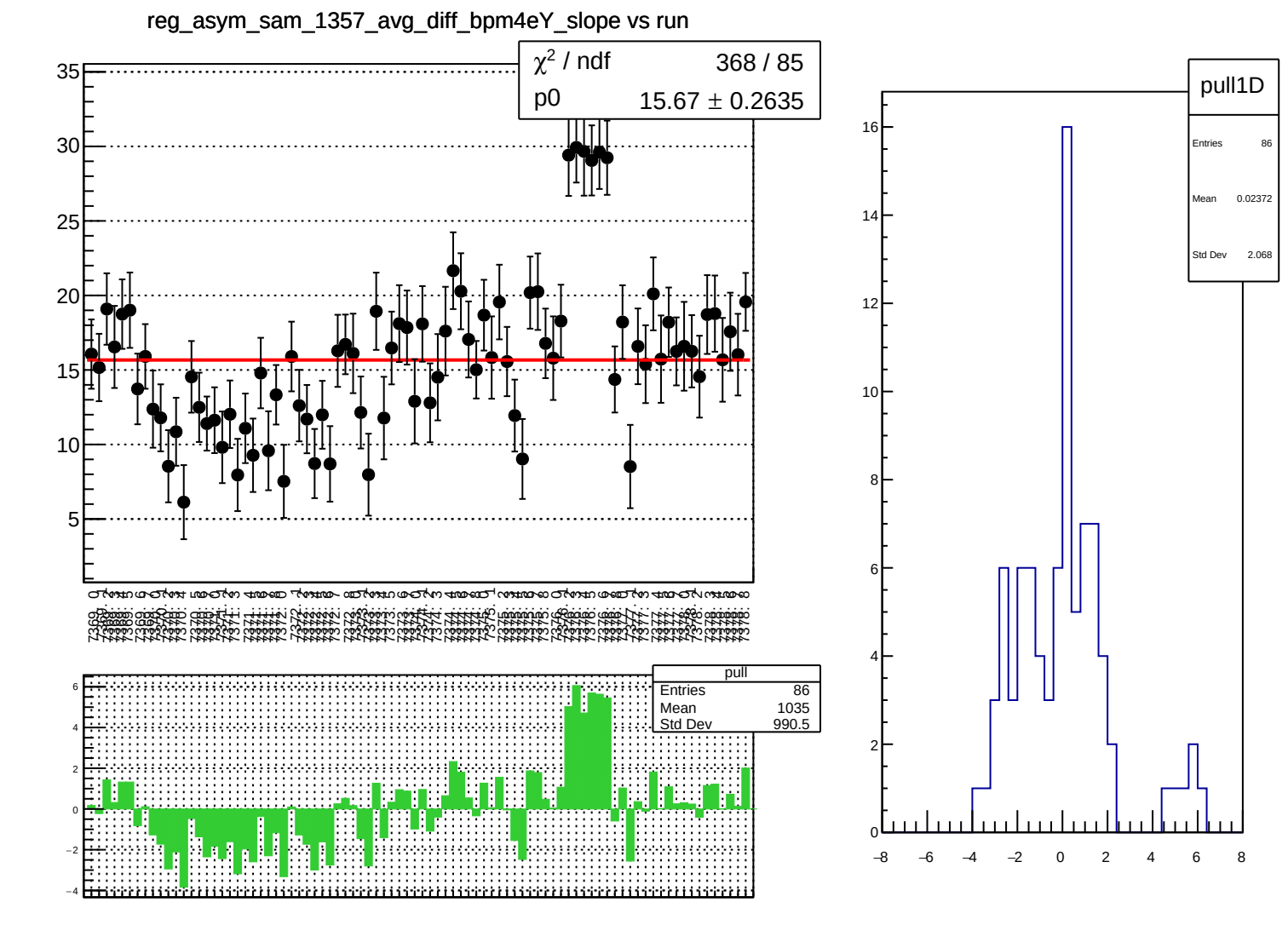

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1134 / 85
p0 −0.1203 ± 0.004239
pull
Entries 86
Mean 594.2
Std Dev 549.4
pull1D
Entries 86
Mean 0.1396
Std Dev 3.628

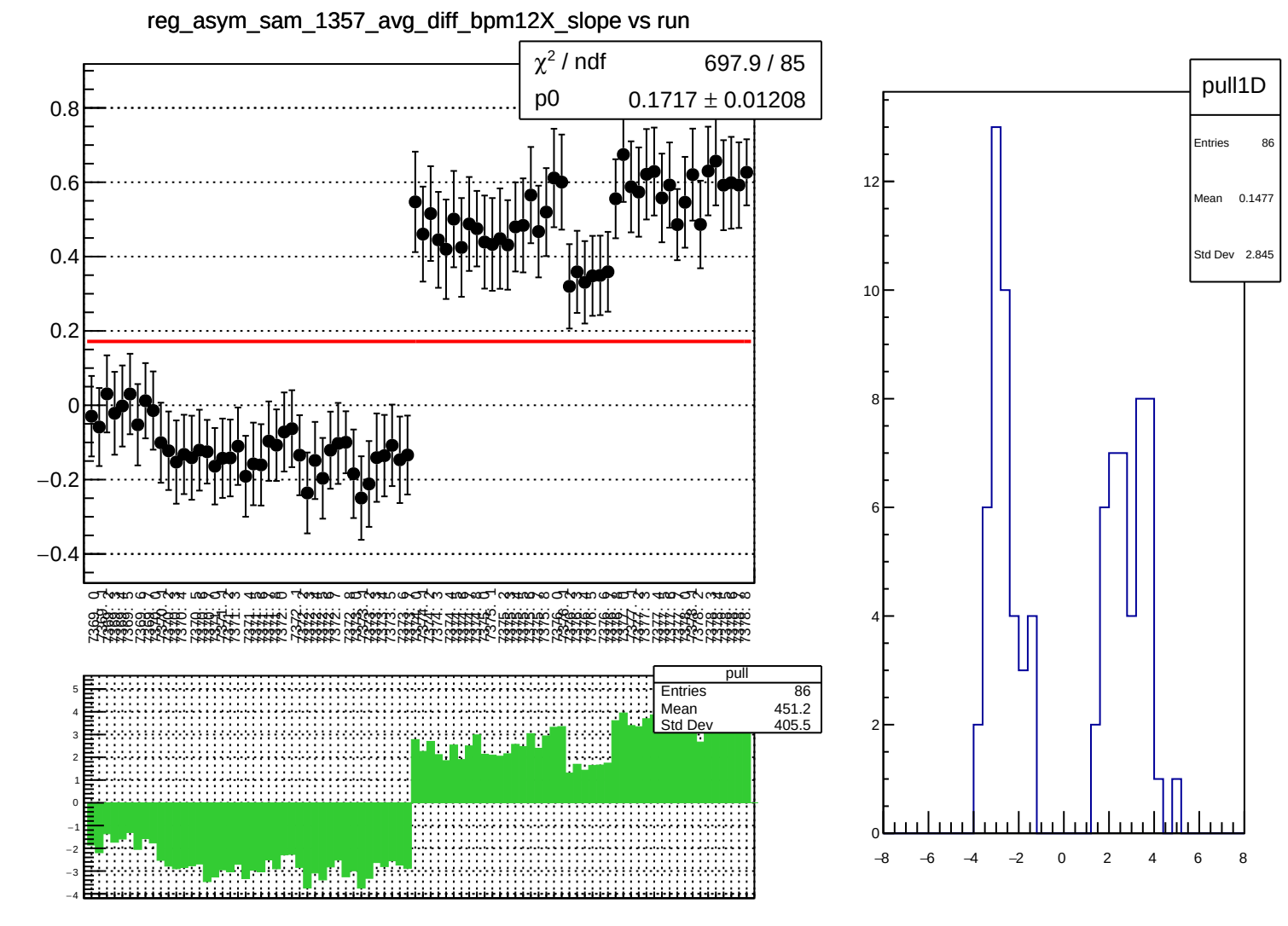

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 946.6 / 85
p0 −26.23 ± 0.2232
pull
Entries 86
Mean 68.94
Std Dev 42.03

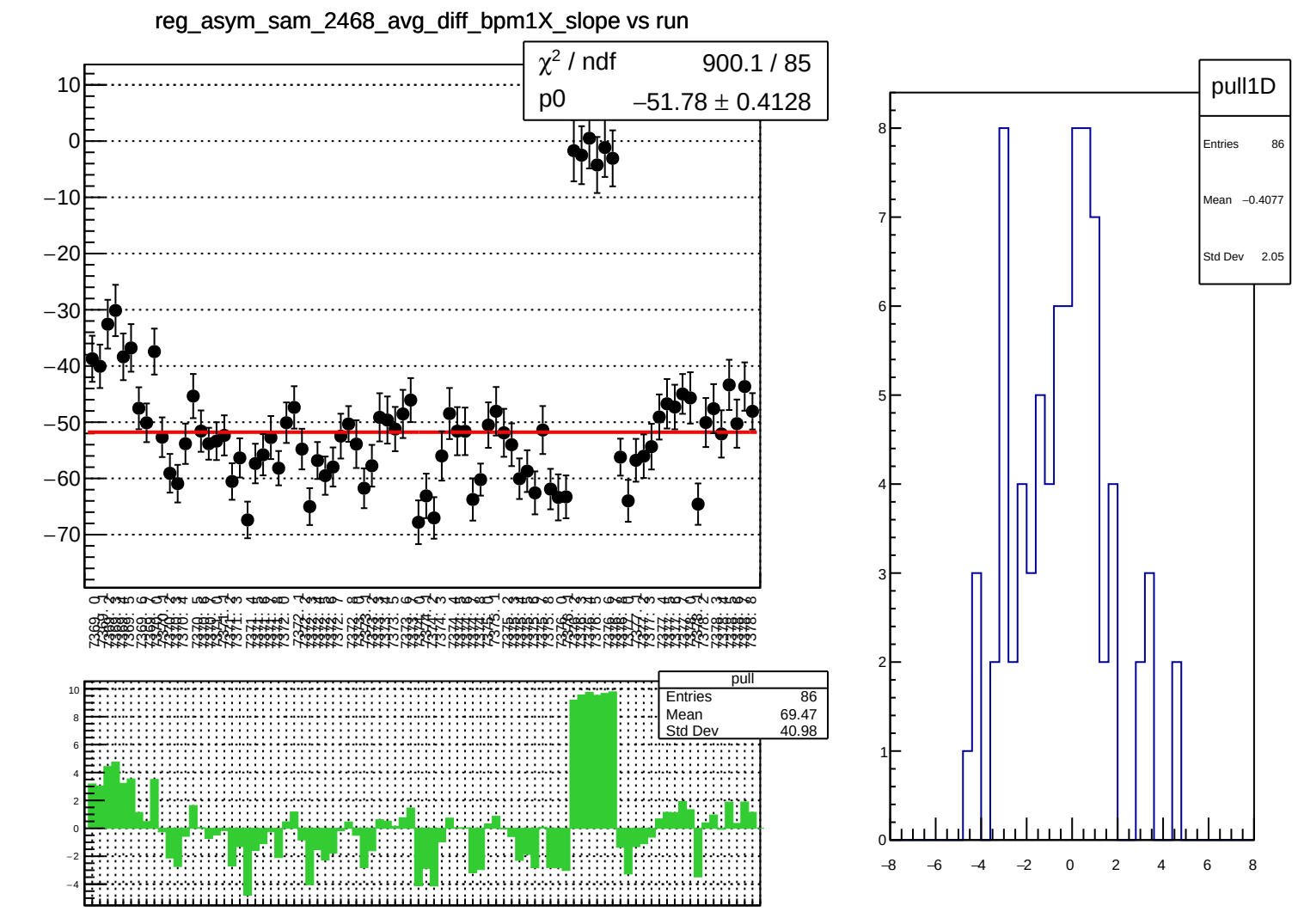

pull1D
Entries 86
Mean −0.4258
Std Dev 2.1

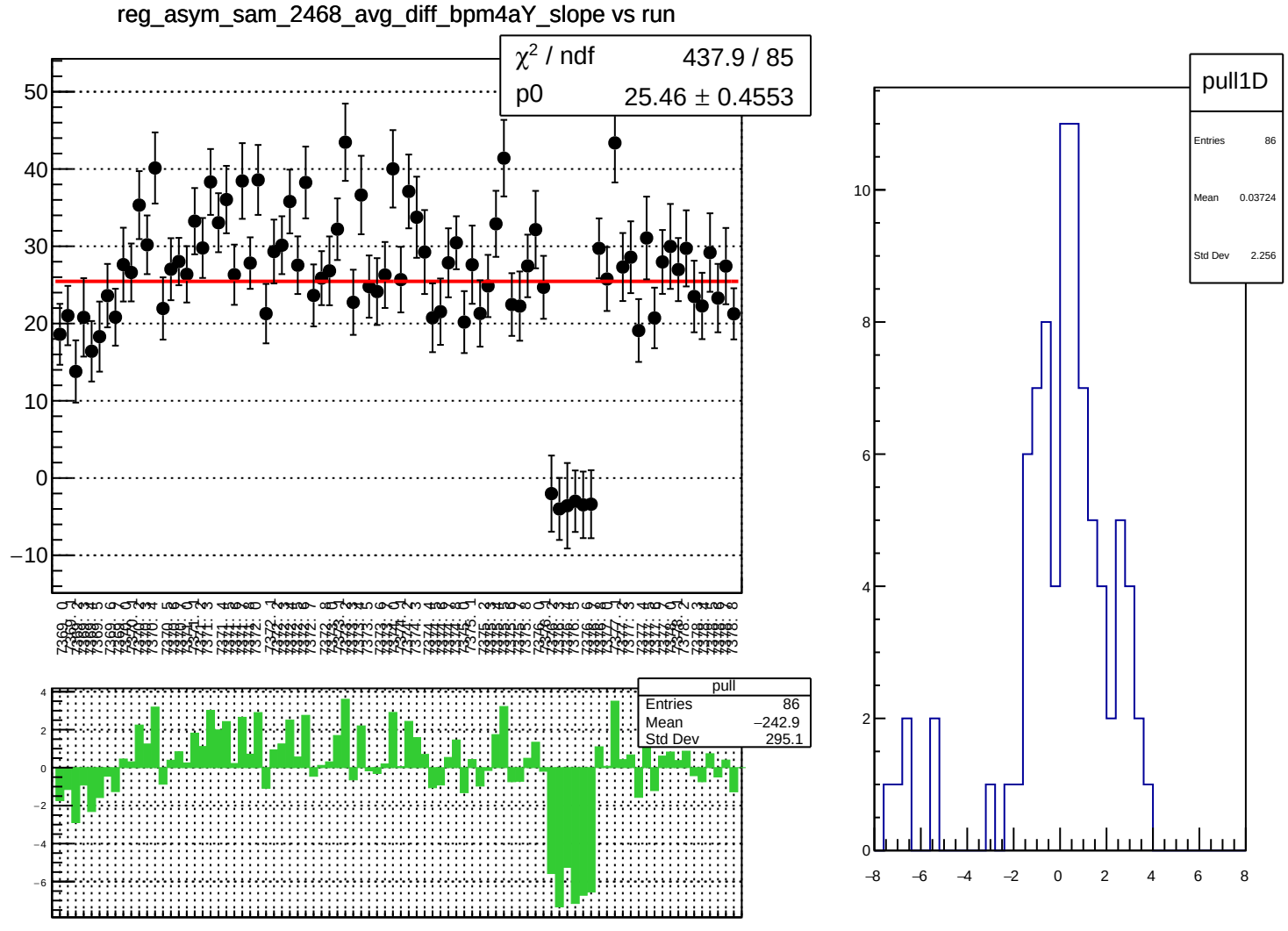

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 474.5 / 85
p0 15.88 ± 0.2462
pull
Entries 86
Mean −307.2
Std Dev 359
pull1D
Entries 86
Mean 0.03392
Std Dev 2.349

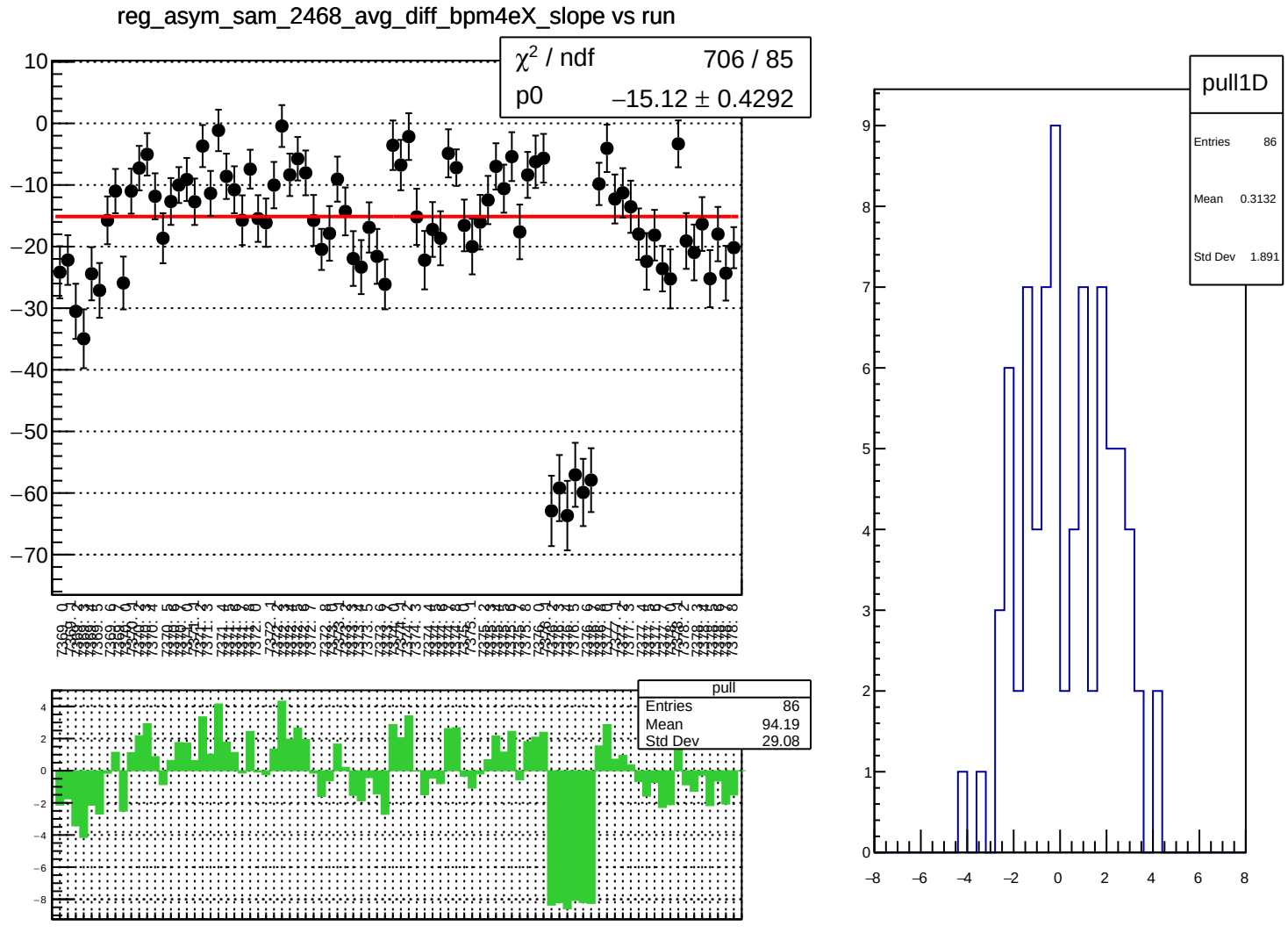

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 748.8 / 85
p0 −5.608 ± 0.232
pull
Entries 86
Mean 92.66
Std Dev 25.29
pull1D
Entries 86
Mean 0.3322
Std Dev 1.939

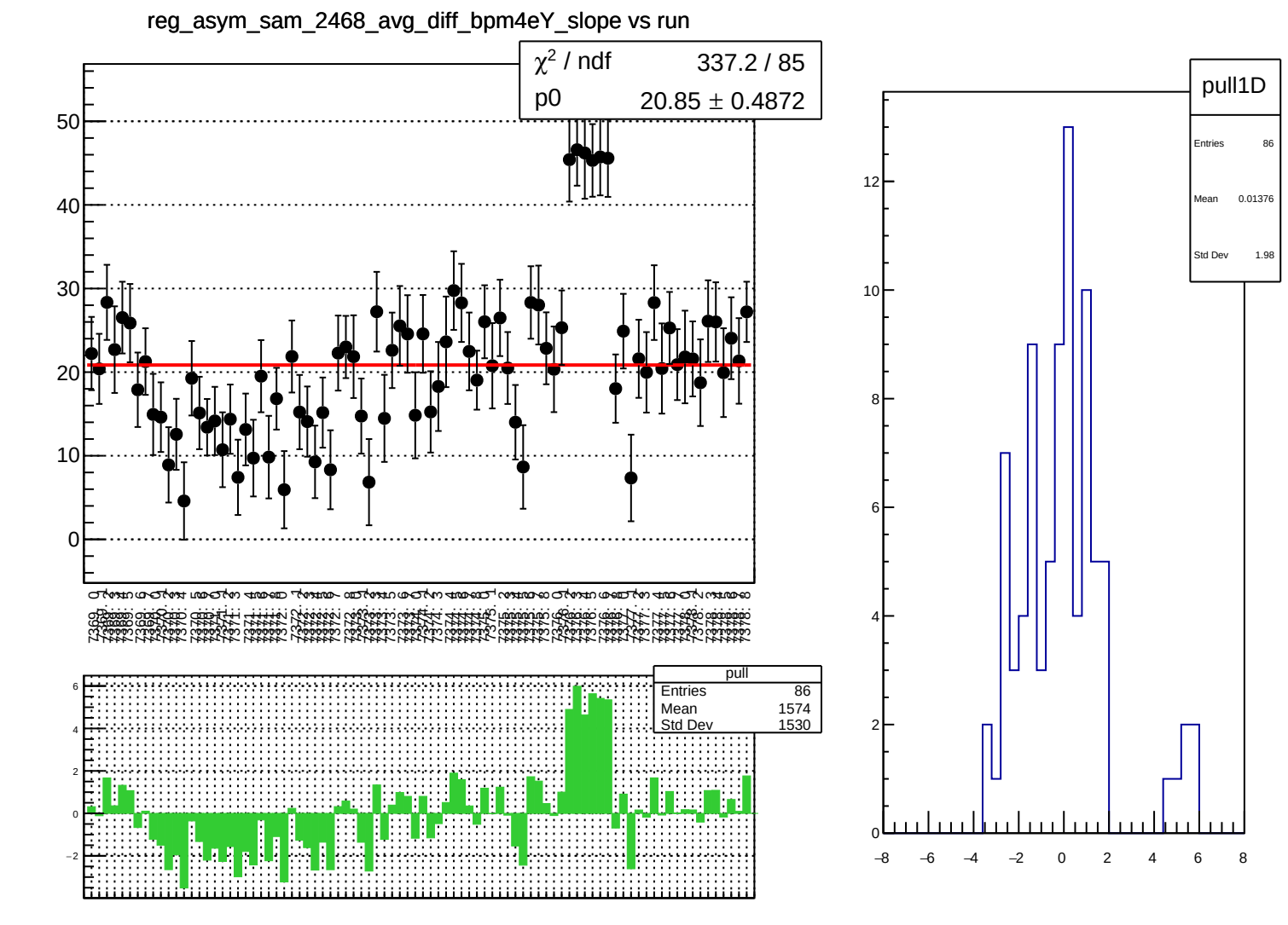

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 368 / 85
p0 15.67 ± 0.2635
pull
Entries 86
Mean 1035
Std Dev 990.5
pull1D
Entries 86
Mean 0.02372
Std Dev 2.068

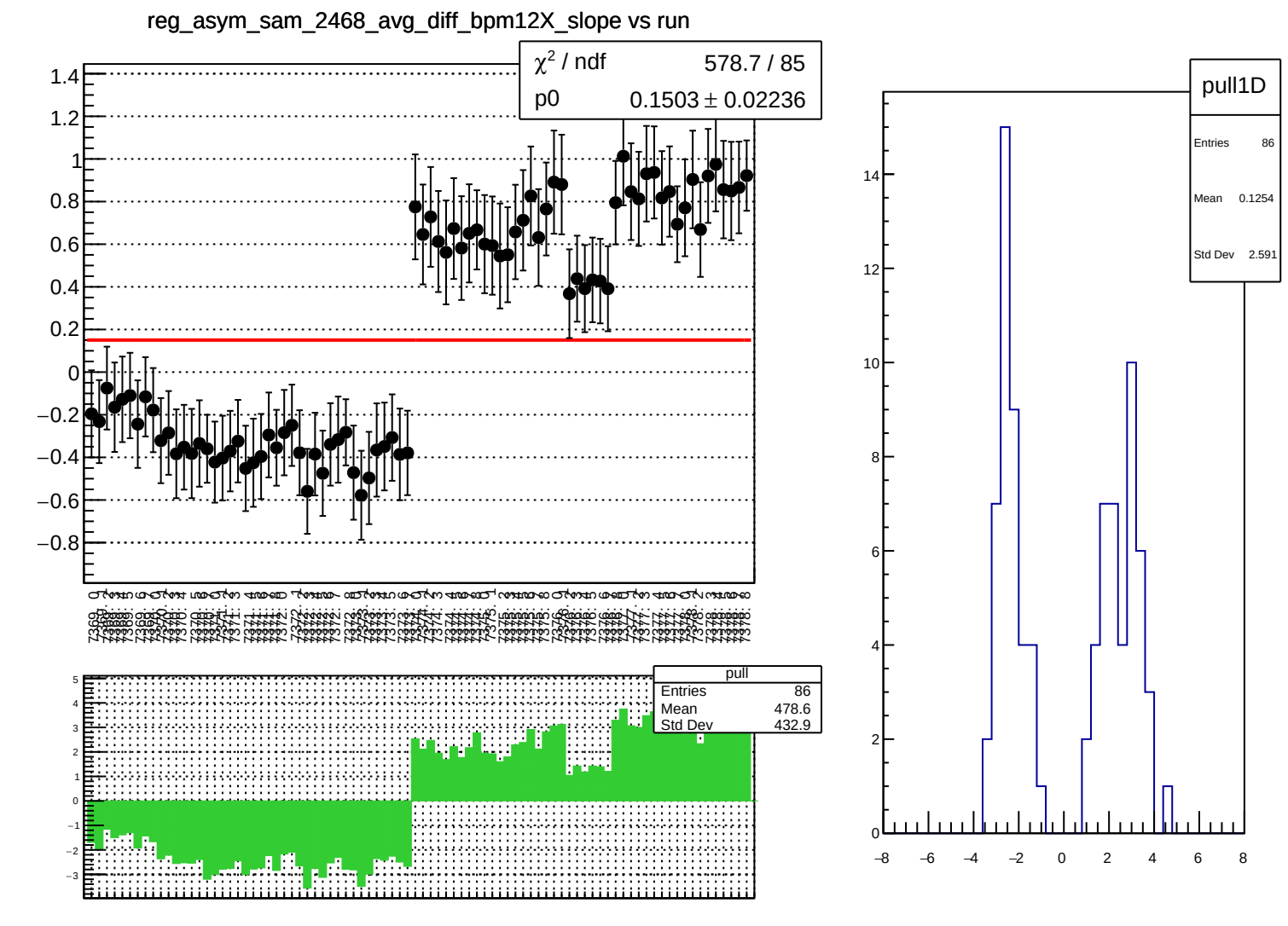

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 697.9 / 85
p0 0.1717 ± 0.01208
pull
Entries 86
Mean 451.2
Std Dev 405.5
pull1D
Entries 86
Mean 0.1477
Std Dev 2.845

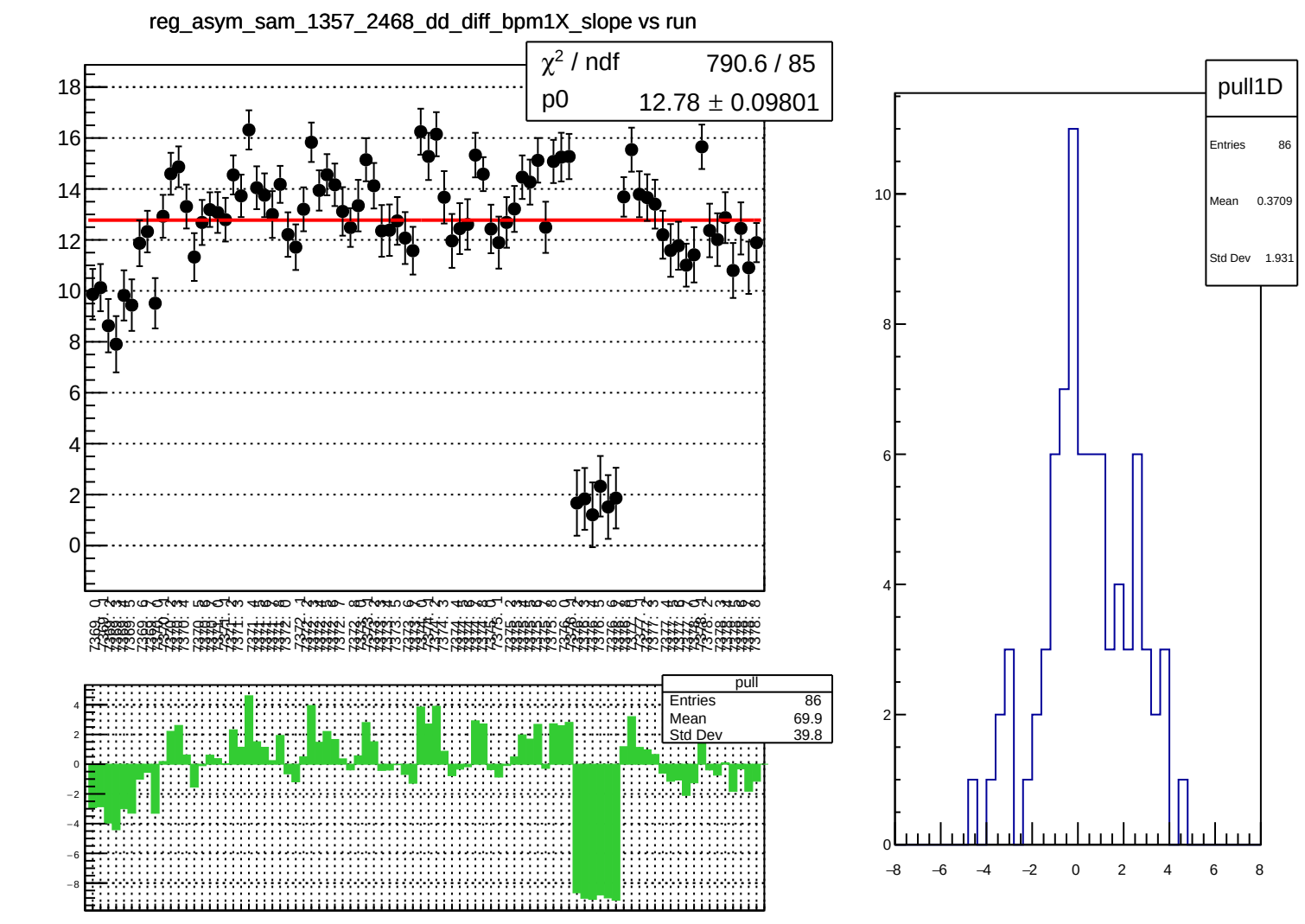

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 900.1 / 85
p0 −51.78 ± 0.4128
pull
Entries 86
Mean 69.47
Std Dev 40.98
pull1D
Entries 86
Mean −0.4077
Std Dev 2.05

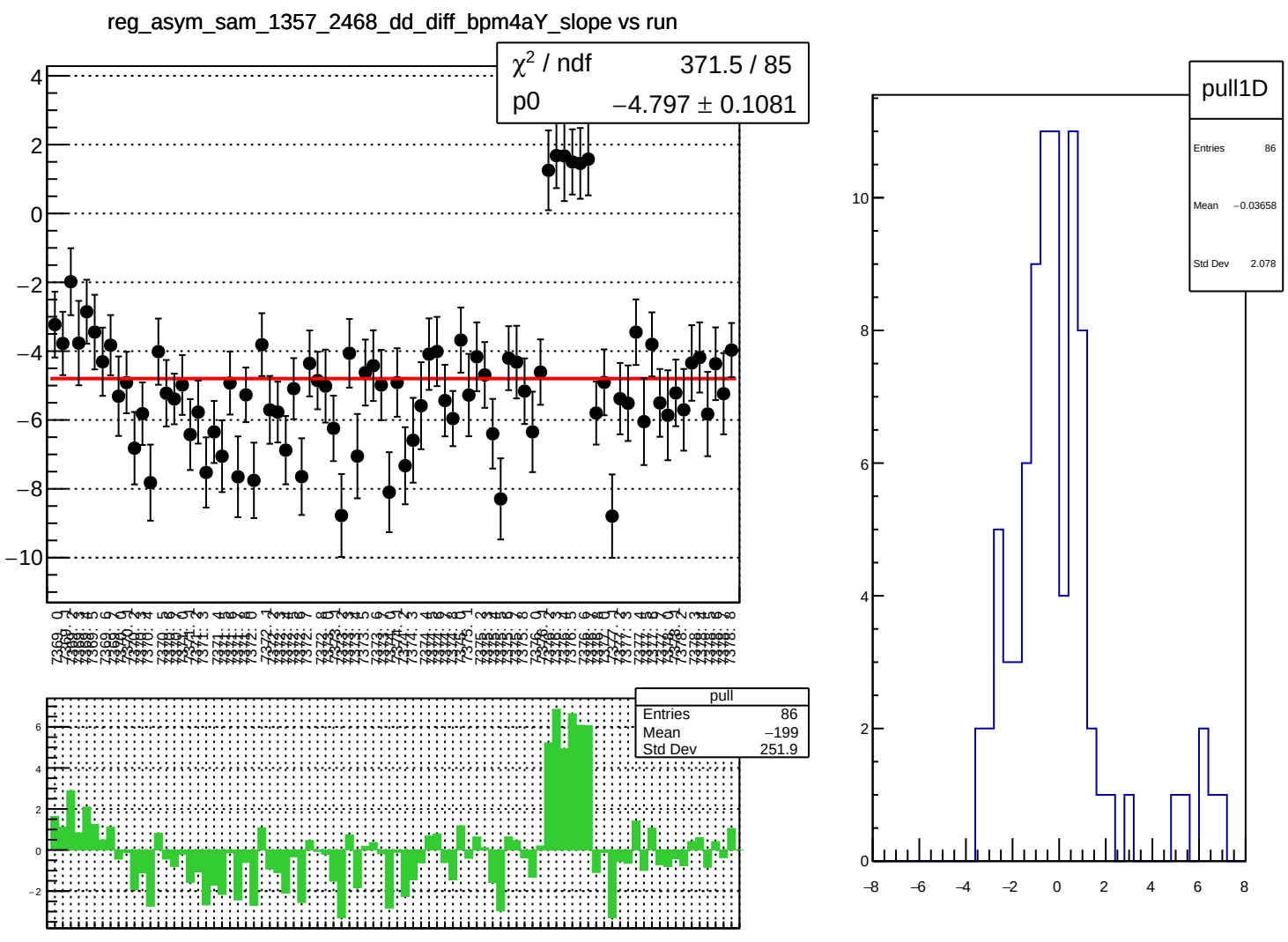

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 437.9 / 85
p0 25.46 ± 0.4553
pull
Entries 86
Mean −242.9
Std Dev 295.1
pull1D
Entries 86
Mean 0.03724
Std Dev 2.256

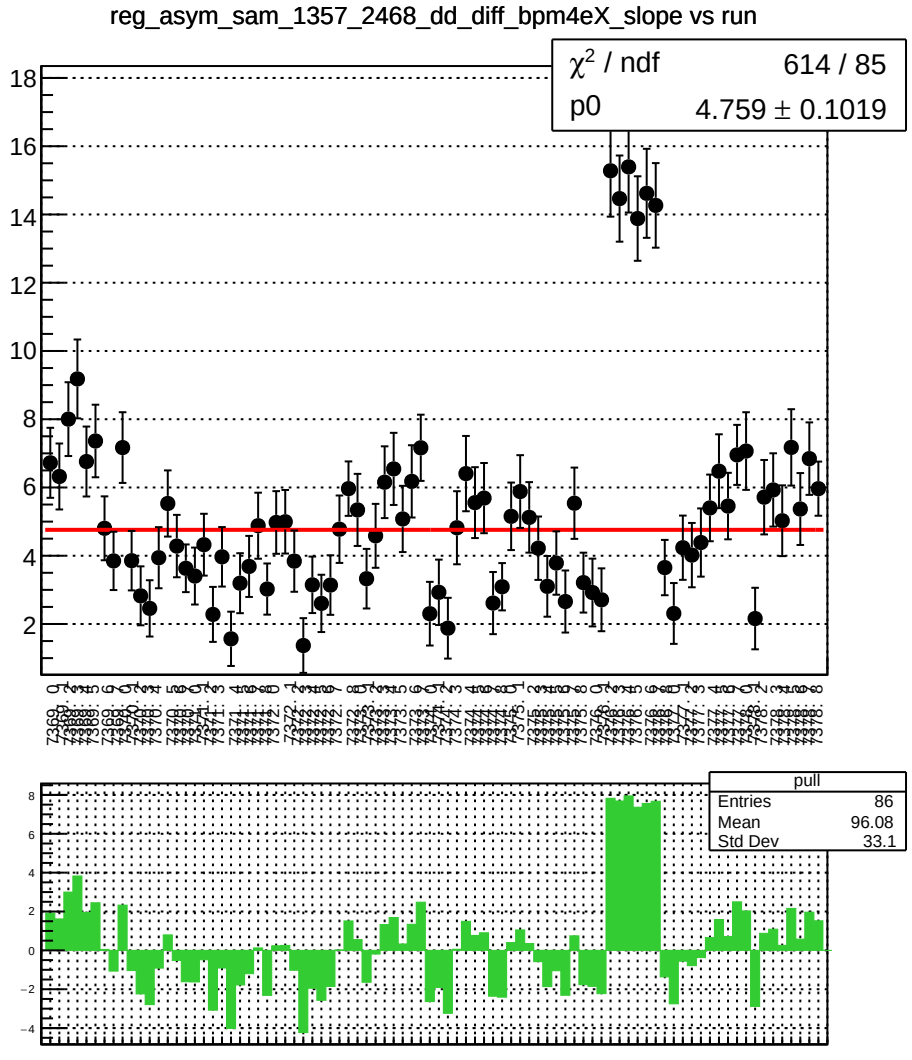

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 706 / 85
p0 −15.12 ± 0.4292
pull
Entries 86
Mean 94.19
Std Dev 29.08
pull1D
Entries 86
Mean 0.3132
Std Dev 1.891

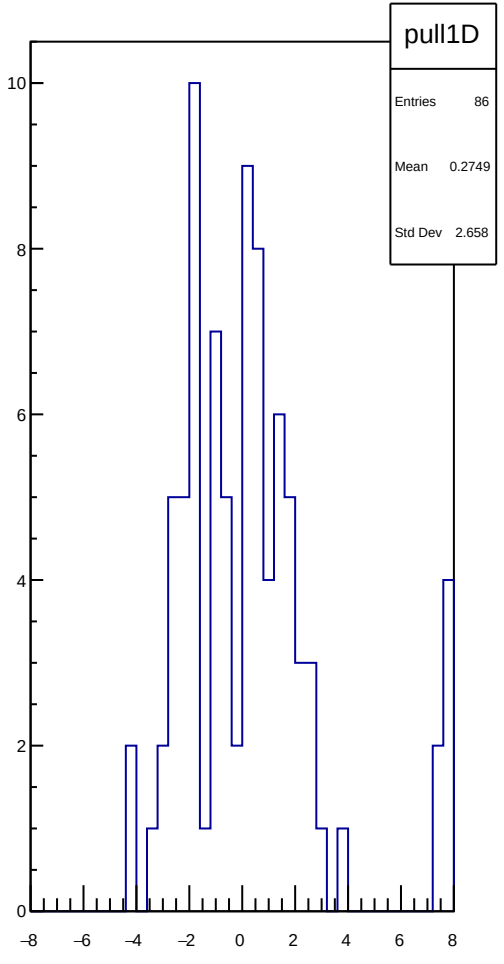

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 337.2 / 85
p0 20.85 ± 0.4872
pull
Entries 86
Mean 1574
Std Dev 1530
pull1D
Entries 86
Mean 0.01376
Std Dev 1.98

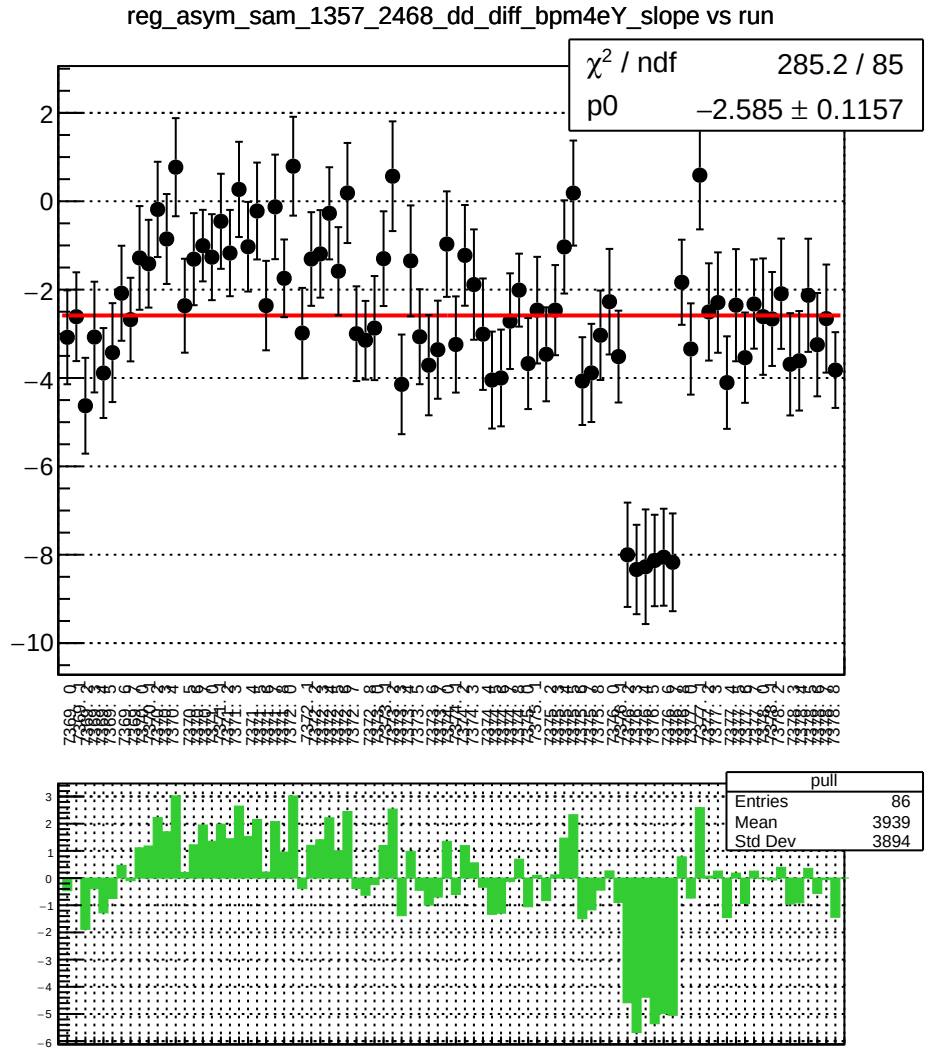

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 578.7 / 85
p0 0.1503 ± 0.02236
pull
Entries 86
Mean 478.6
Std Dev 432.9
pull1D
Entries 86
Mean 0.1254
Std Dev 2.591

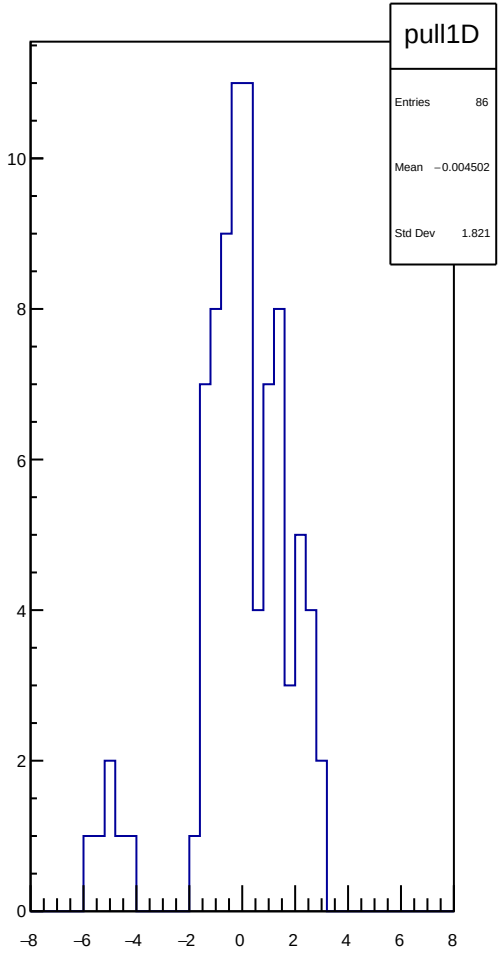

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 790.6 / 85
p0 12.78 ± 0.09801
pull
Entries 86
Mean 69.9
Std Dev 39.8
pull1D
Entries 86
Mean 0.3709
Std Dev 1.931

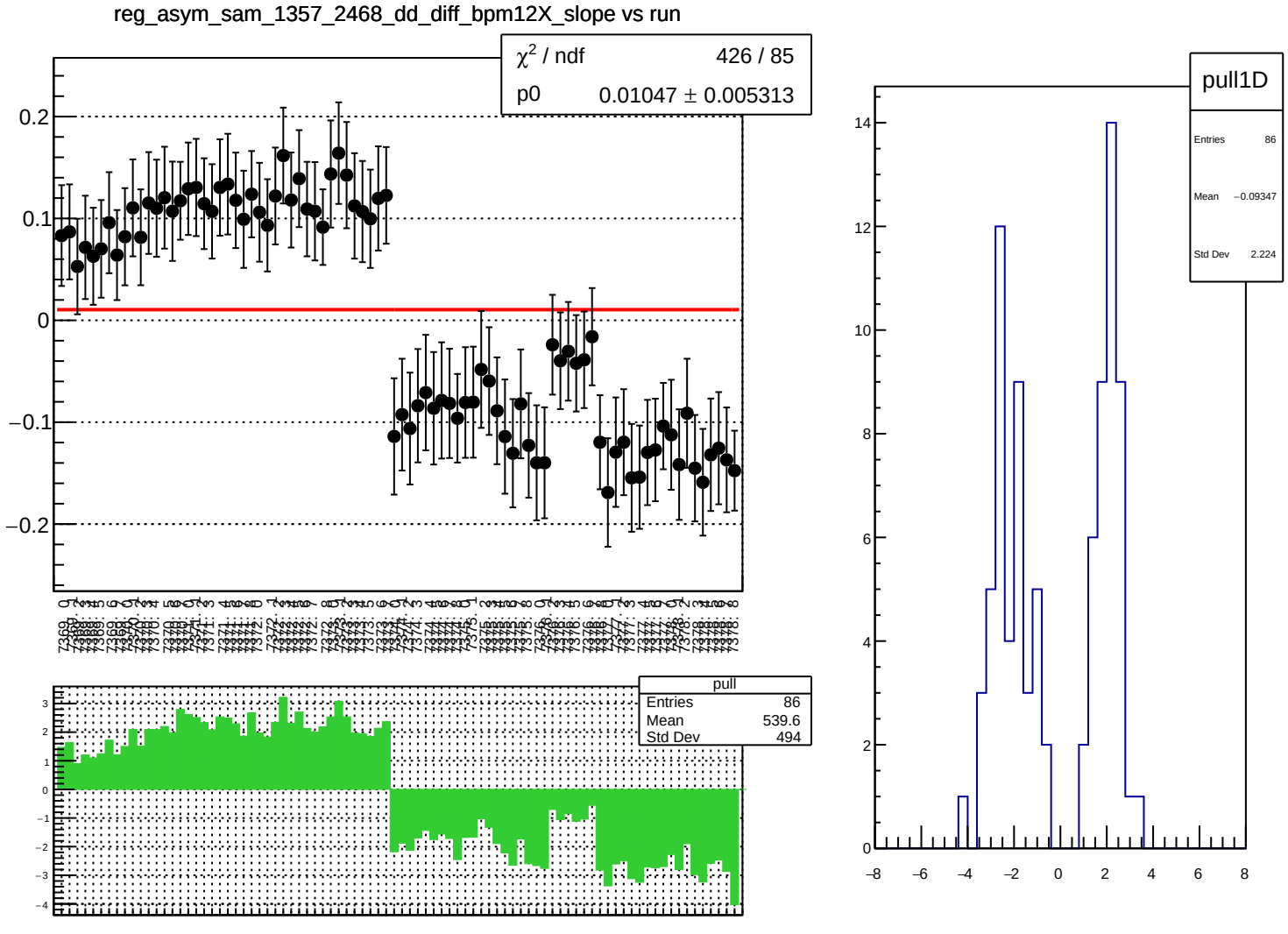

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 371.5 / 85
p0 −4.797 ± 0.1081
pull
Entries 86
Mean −199
Std Dev 251.9
pull1D
Entries 86
Mean −0.03658
Std Dev 2.078

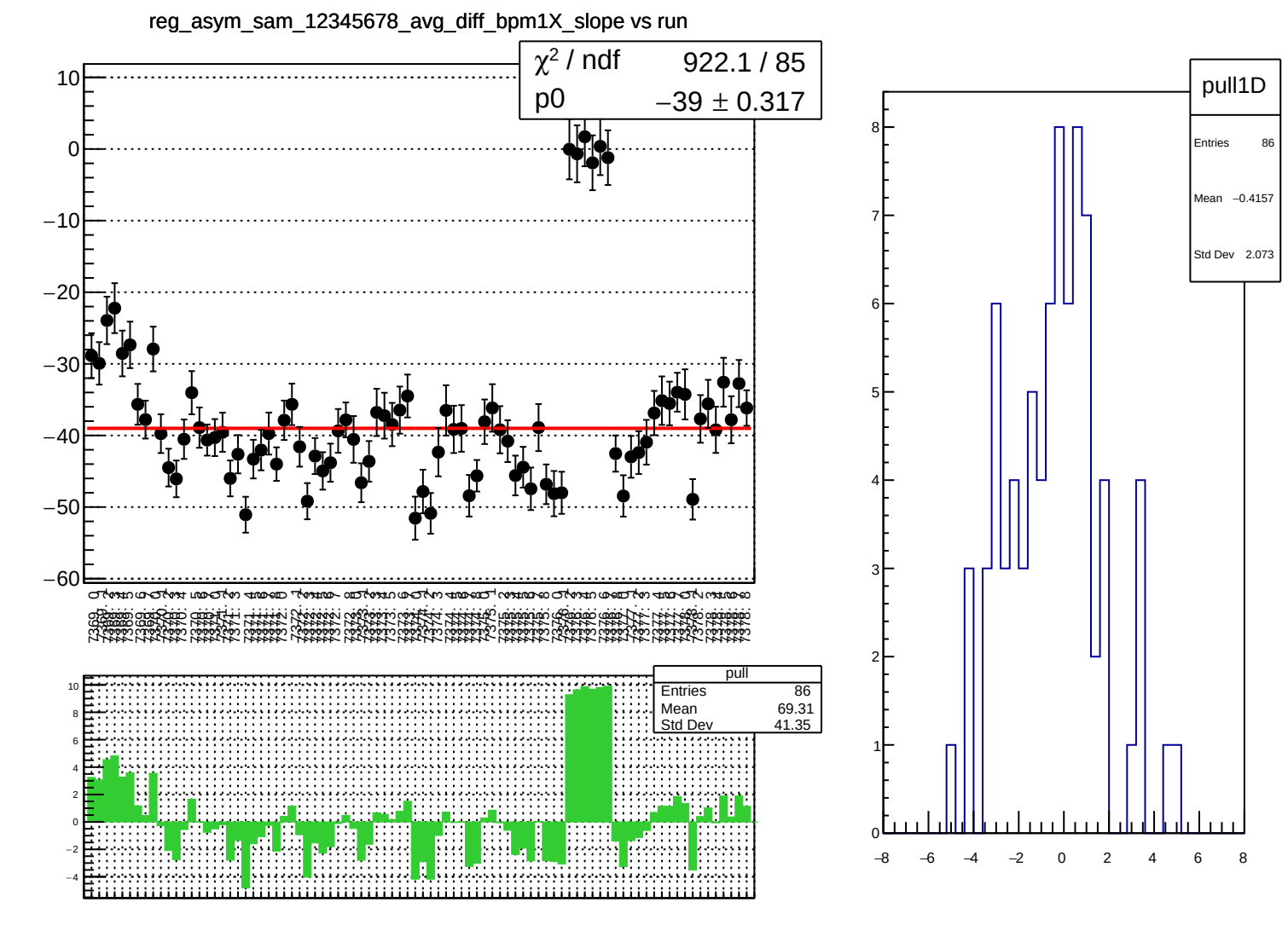

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 614 / 85
p0 4.759 ± 0.1019
pull
Entries 86
Mean 96.08
Std Dev 33.1

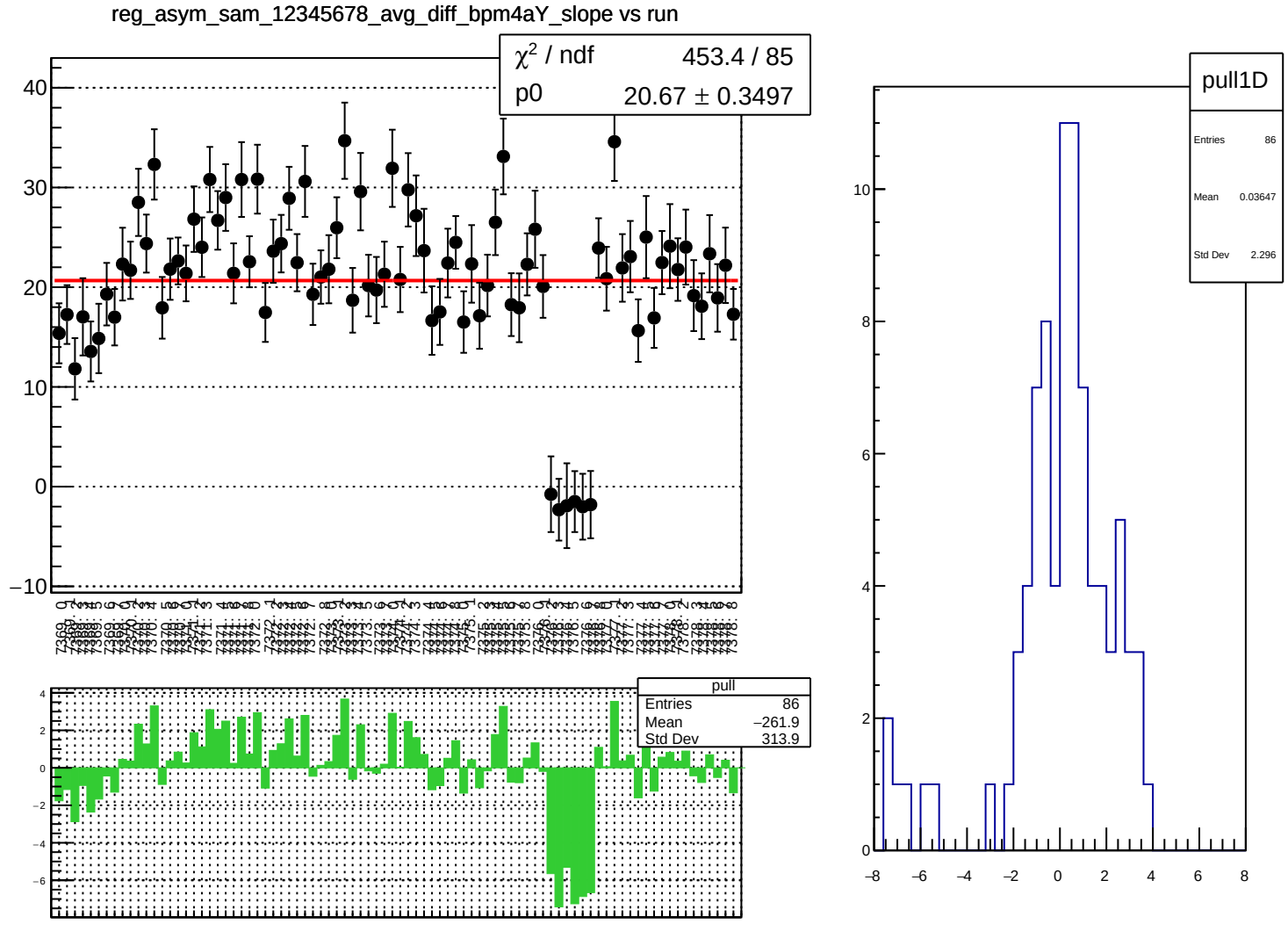

pull1D
Entries 86
Mean 0.2749
Std Dev 2.658

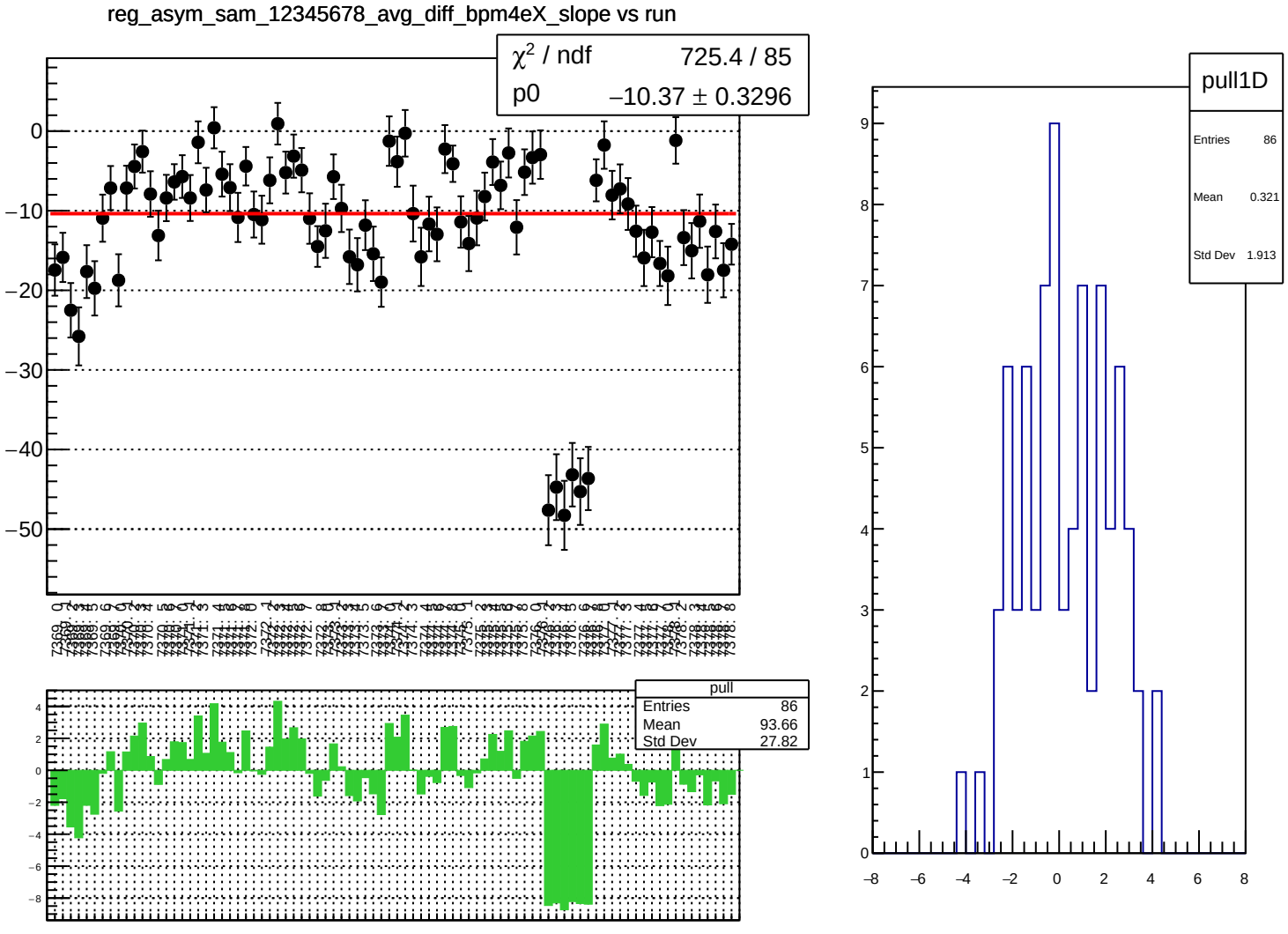

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 285.2 / 85
p0 −2.585 ± 0.1157
pull
Entries 86
Mean 3939
Std Dev 3894

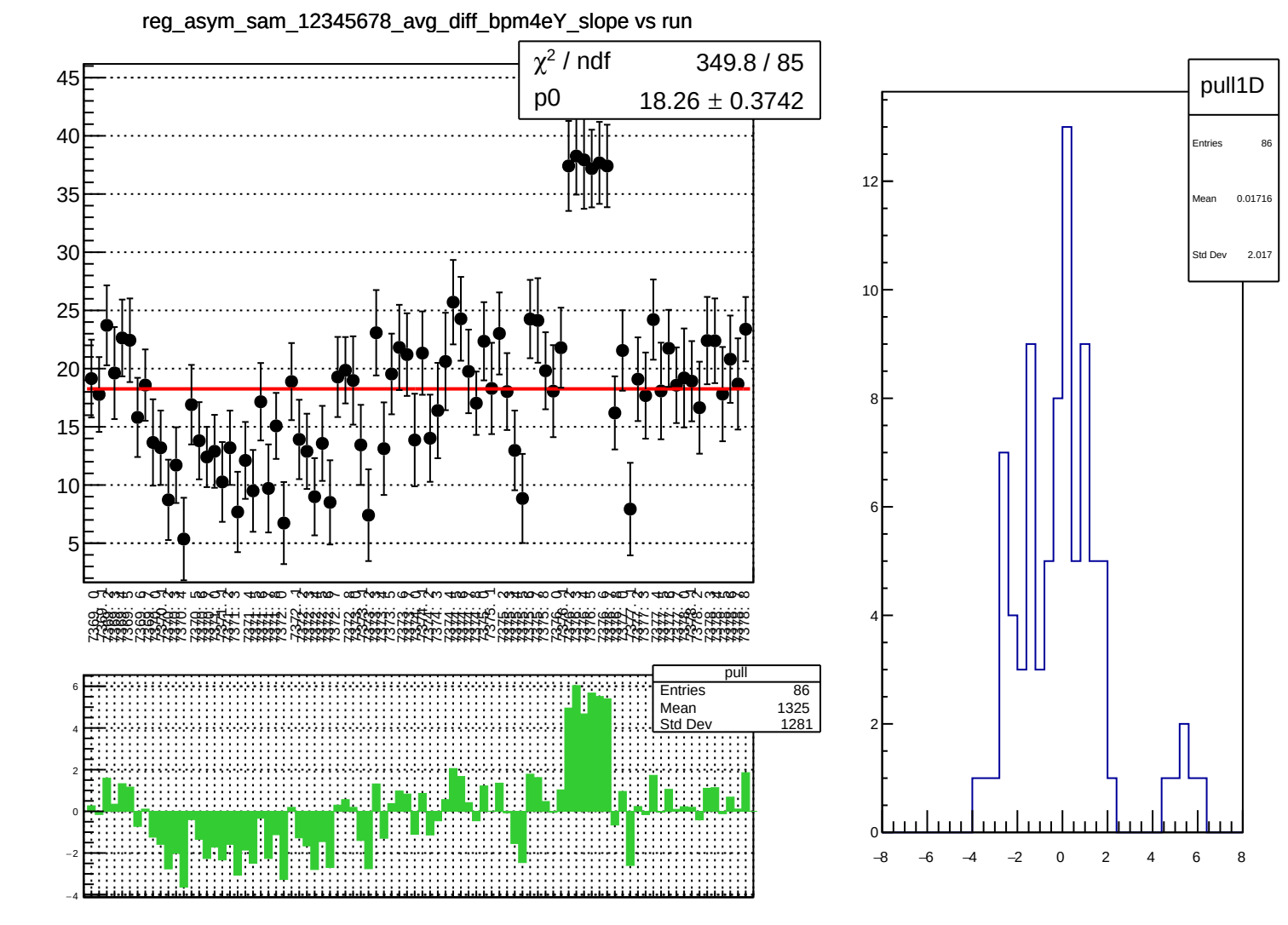

pull1D
Entries 86
Mean −0.004502
Std Dev 1.821

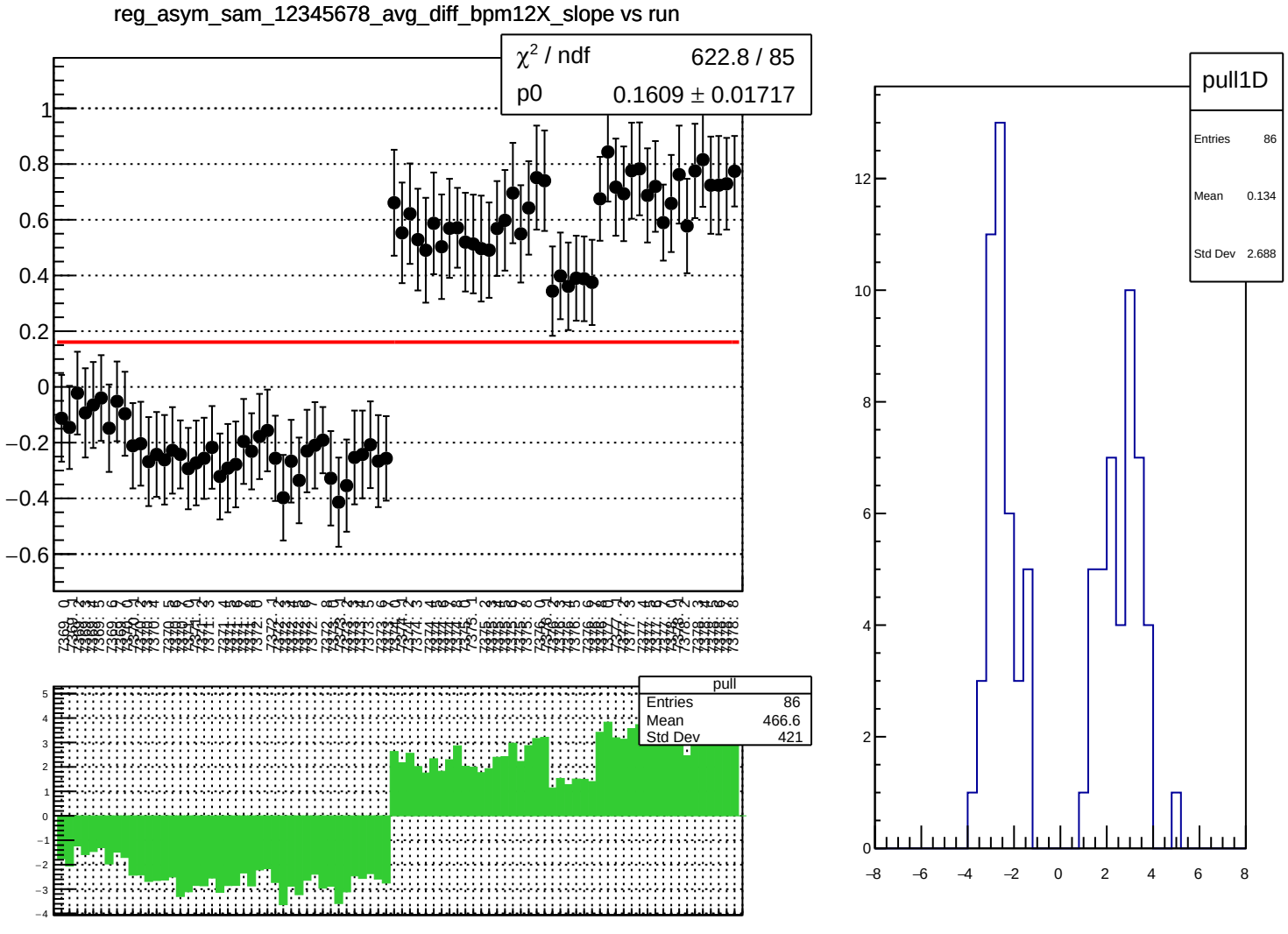

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 426 / 85
p0 0.01047 ± 0.005313
pull
Entries 86
Mean 539.6
Std Dev 494
pull1D
Entries 86
Mean −0.09347
Std Dev 2.224

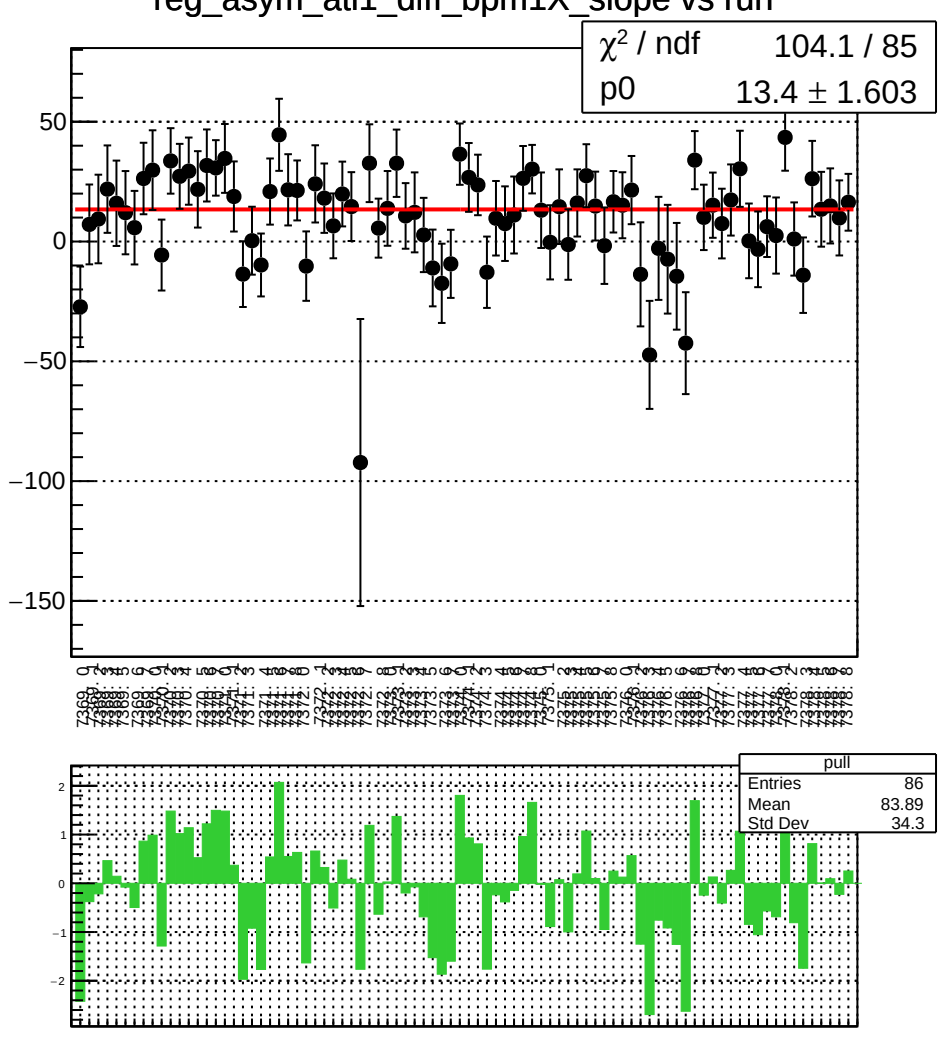

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 922.1 / 85
p0 −39 ± 0.317
pull
Entries 86
Mean 69.31
Std Dev 41.35
pull1D
Entries 86
Mean −0.4157
Std Dev 2.073

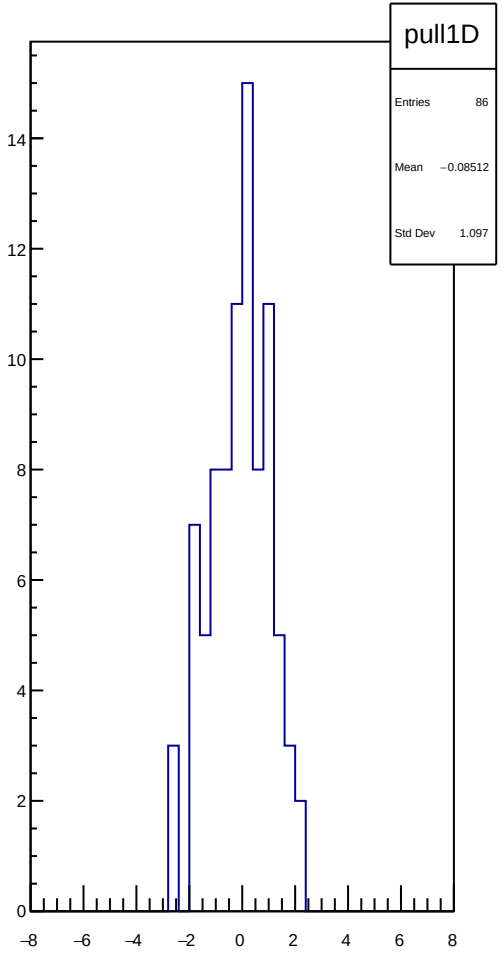

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 453.4 / 85
p0 20.67 ± 0.3497
pull
Entries 86
Mean −261.9
Std Dev 313.9
pull1D
Entries 86
Mean 0.03647
Std Dev 2.296

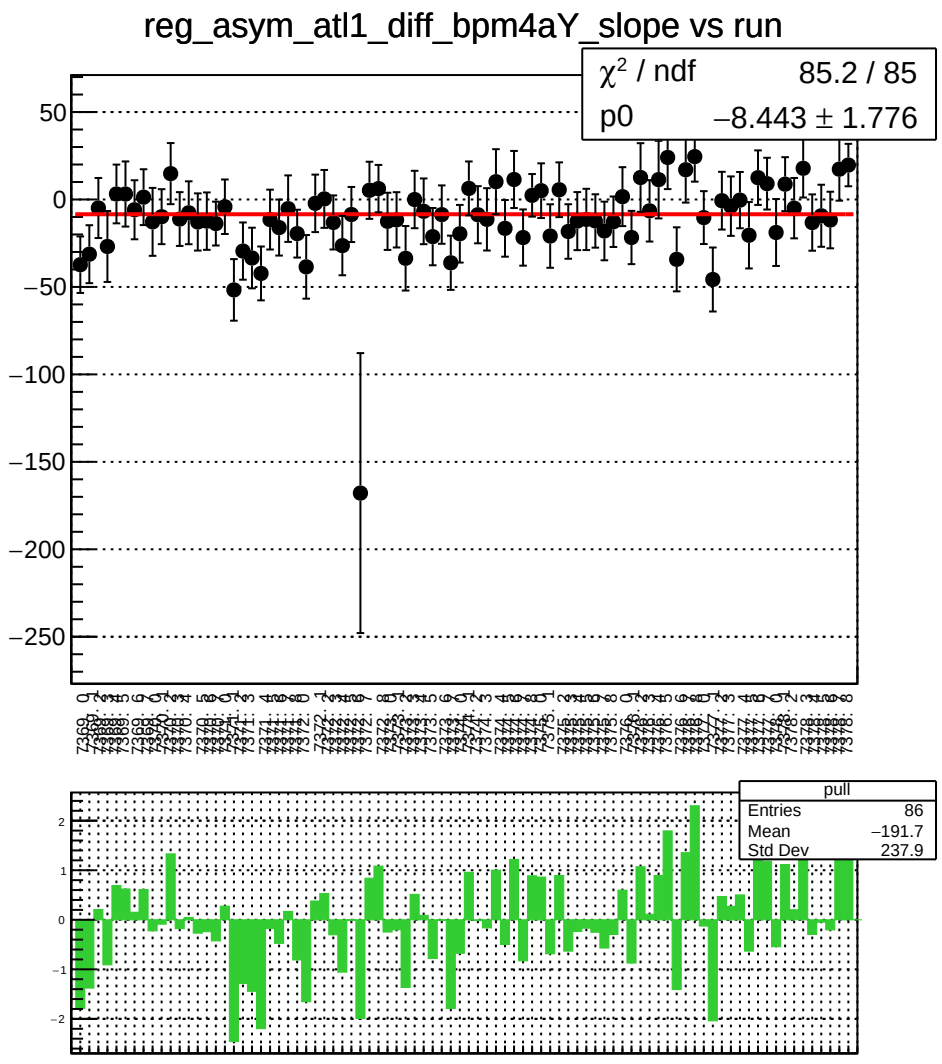

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 725.4 / 85
p0 −10.37 ± 0.3296
pull
Entries 86
Mean 93.66
Std Dev 27.82
pull1D
Entries 86
Mean 0.321
Std Dev 1.913

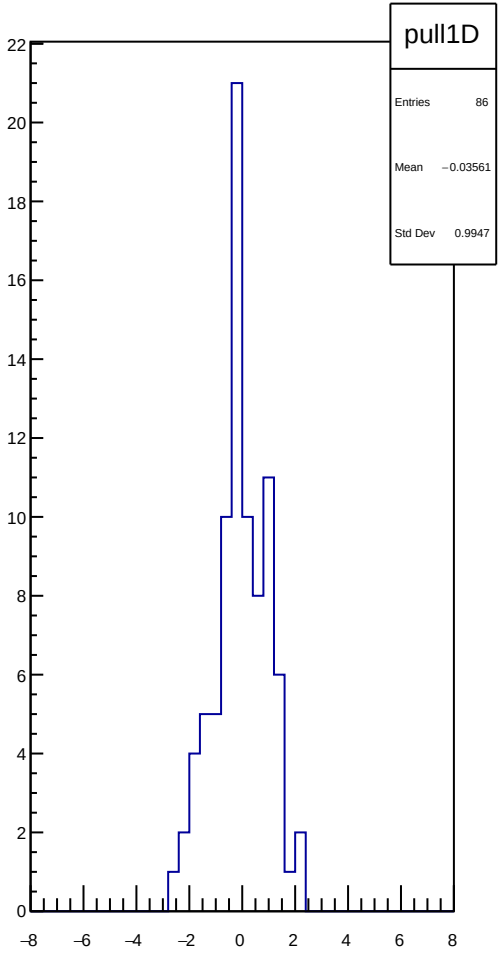

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 349.8 / 85
p0 18.26 ± 0.3742
pull
Entries 86
Mean 1325
Std Dev 1281
pull1D
Entries 86
Mean 0.01716
Std Dev 2.017

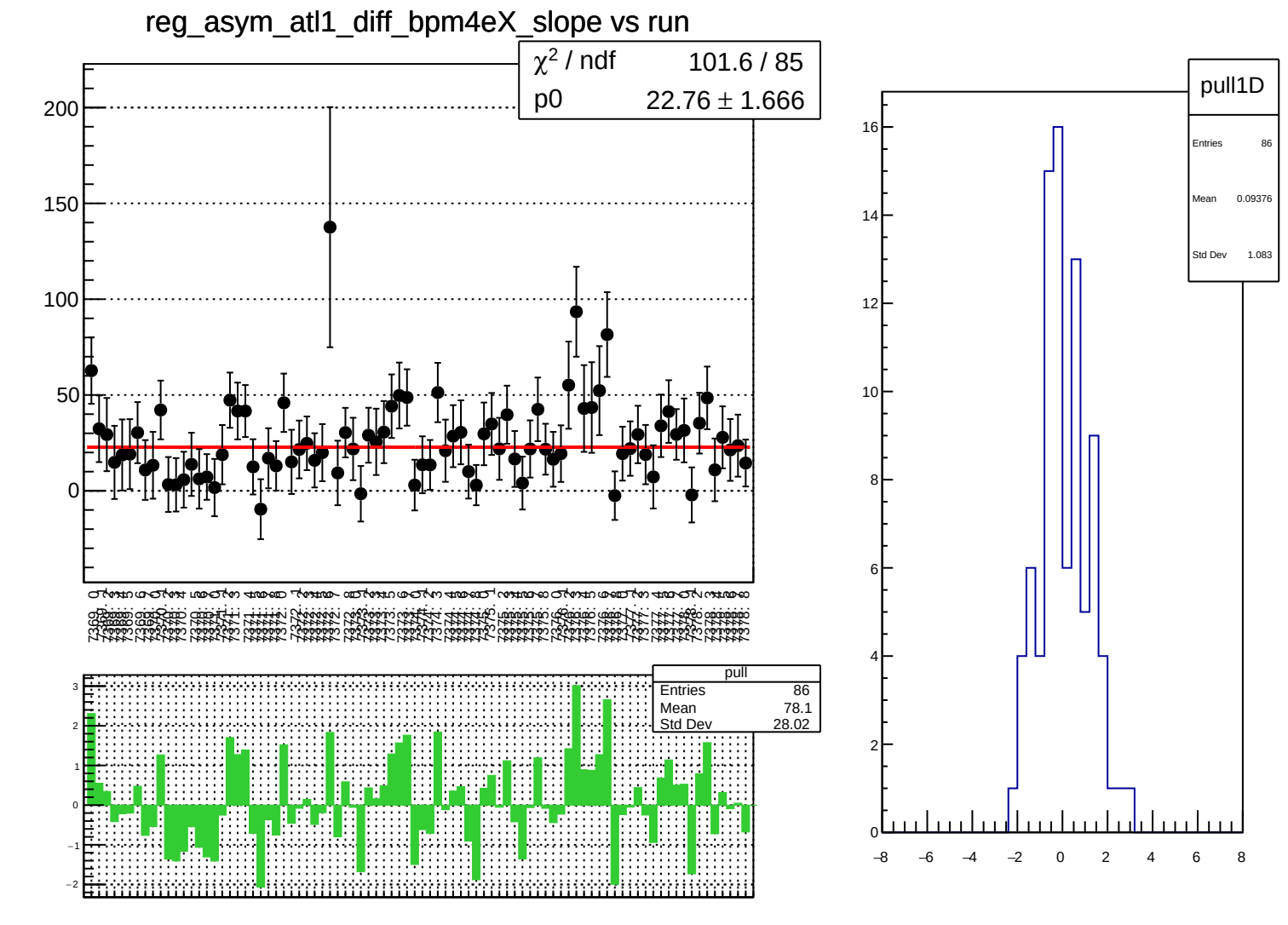

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 622.8 / 85
p0 0.1609 ± 0.01717
pull
Entries 86
Mean 466.6
Std Dev 421
pull1D
Entries 86
Mean 0.134
Std Dev 2.688

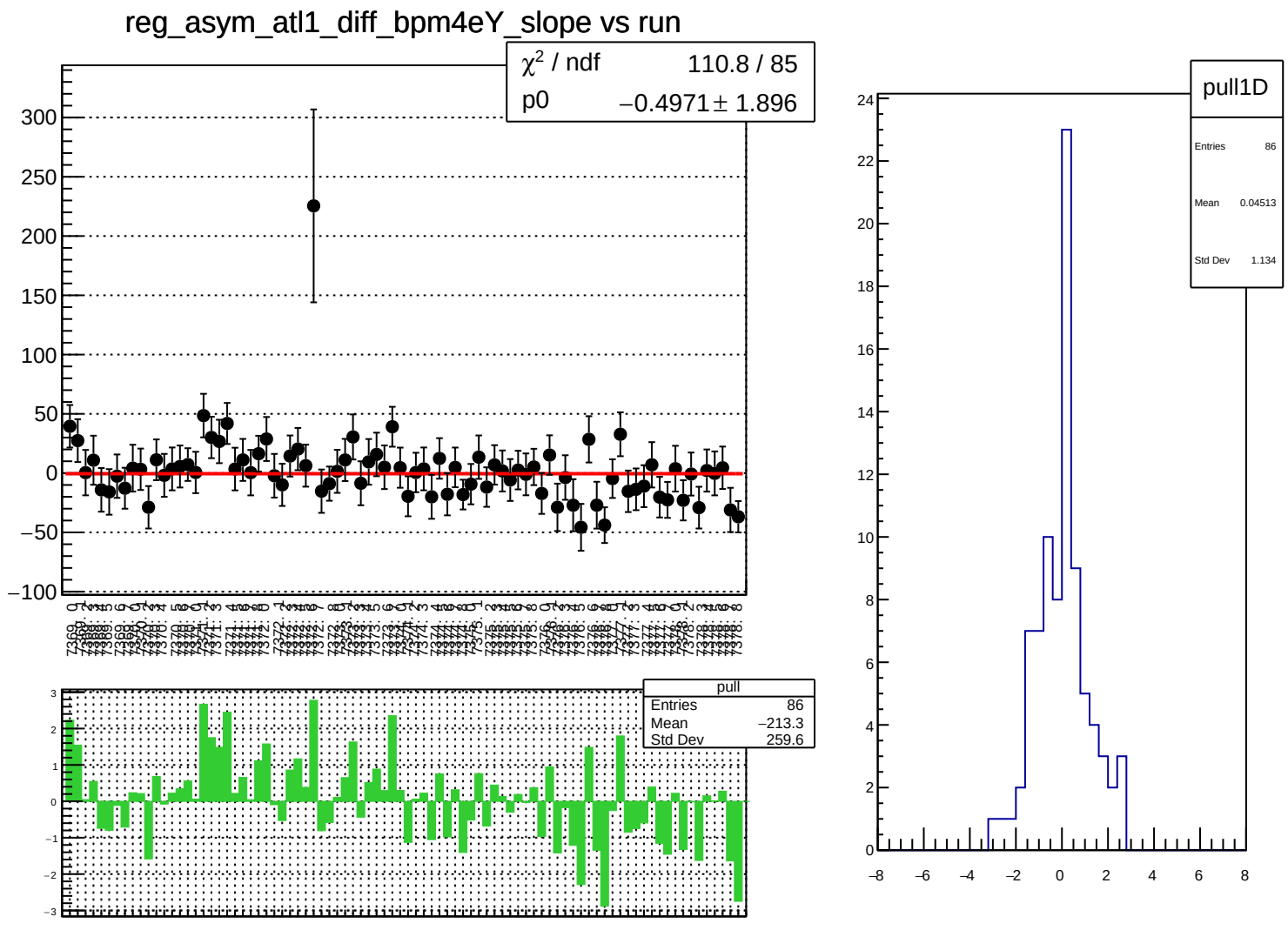

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 104.1 / 85
p0 13.4 ± 1.603
pull
Entries 86
Mean 83.89
Std Dev 34.3

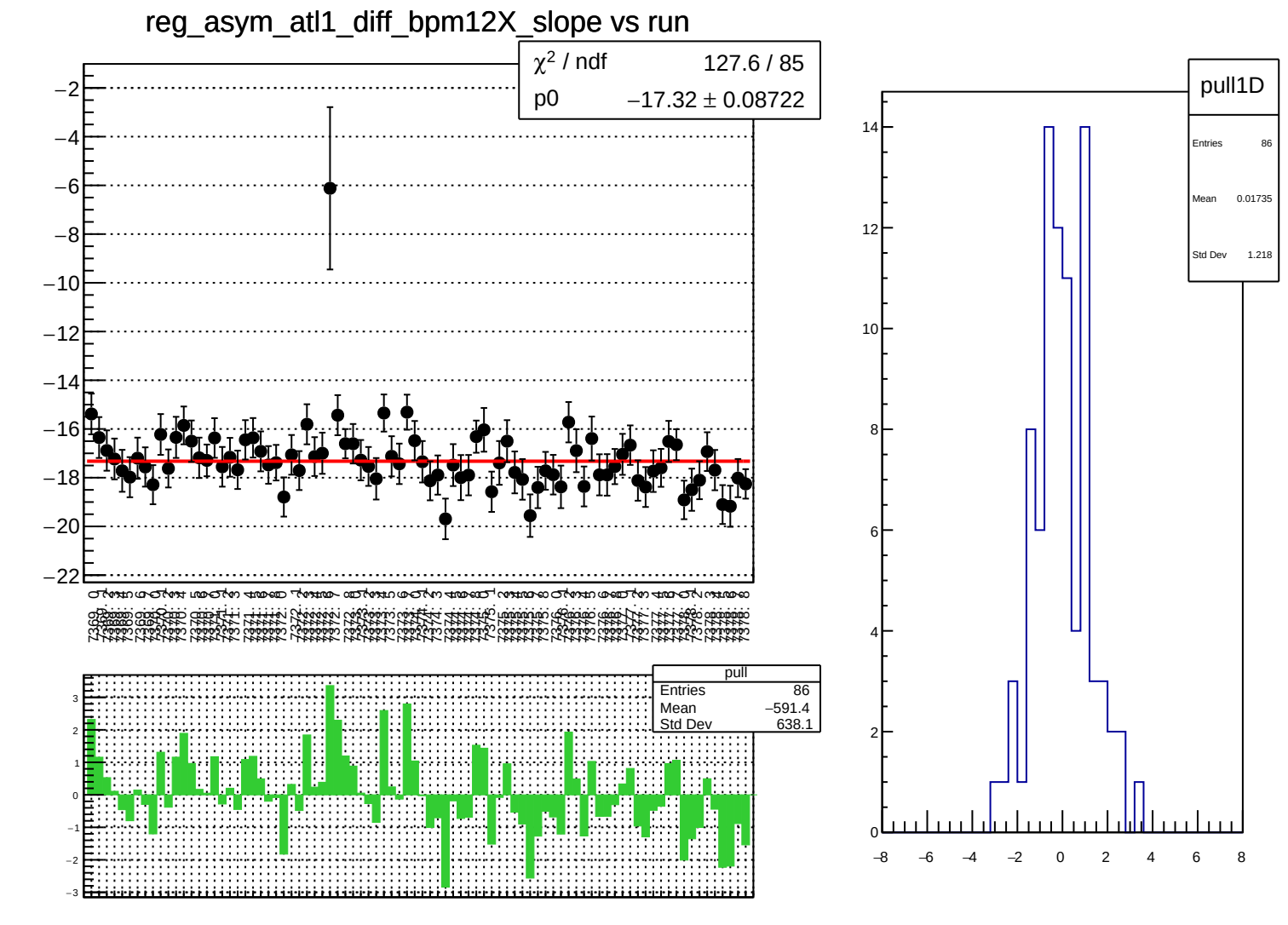

pull1D
Entries 86
Mean −0.08512
Std Dev 1.097

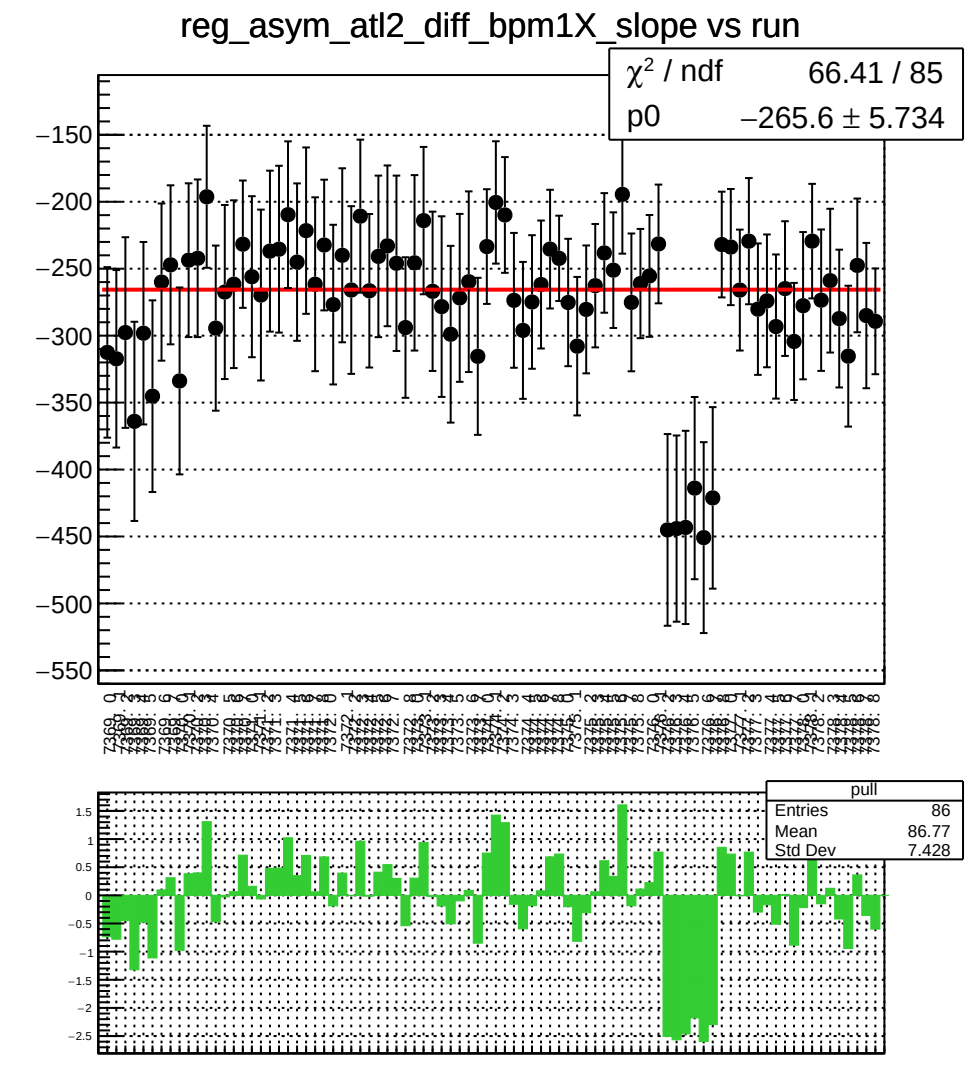

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 85.2 / 85
p0 −8.443 ± 1.776
pull
Entries 86
Mean −191.7
Std Dev 237.9

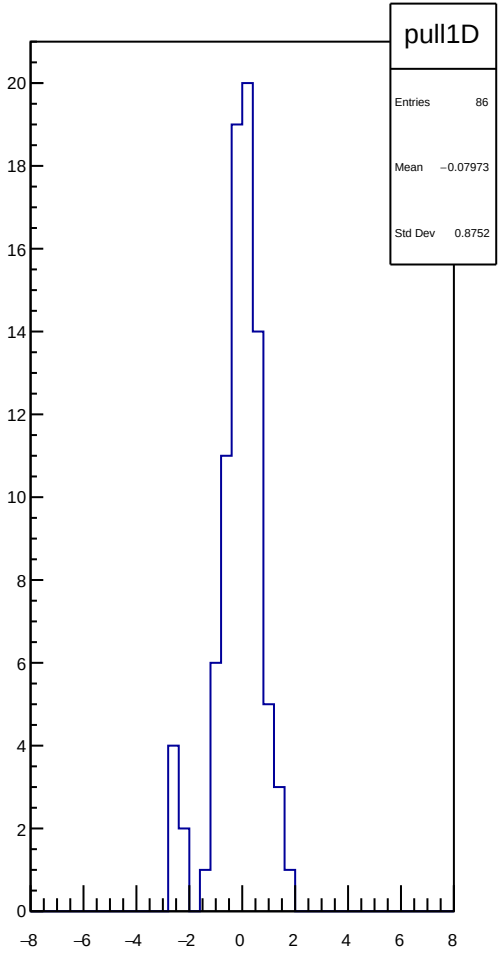

pull1D
Entries 86
Mean −0.03561
Std Dev 0.9947

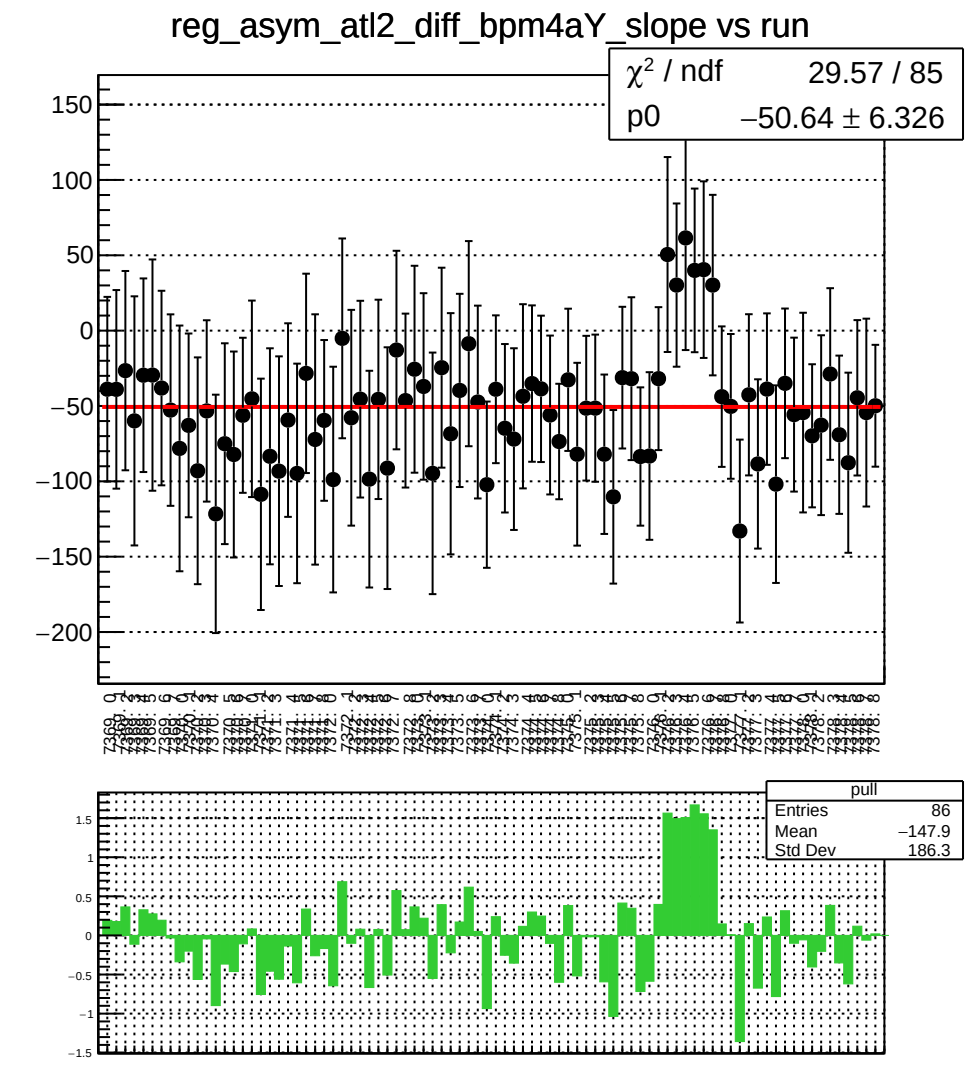

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 101.6 / 85
p0 22.76 ± 1.666
200
150
100
50
0
pull
Entries 86
Mean 78.1
Std Dev 28.02
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.09376
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

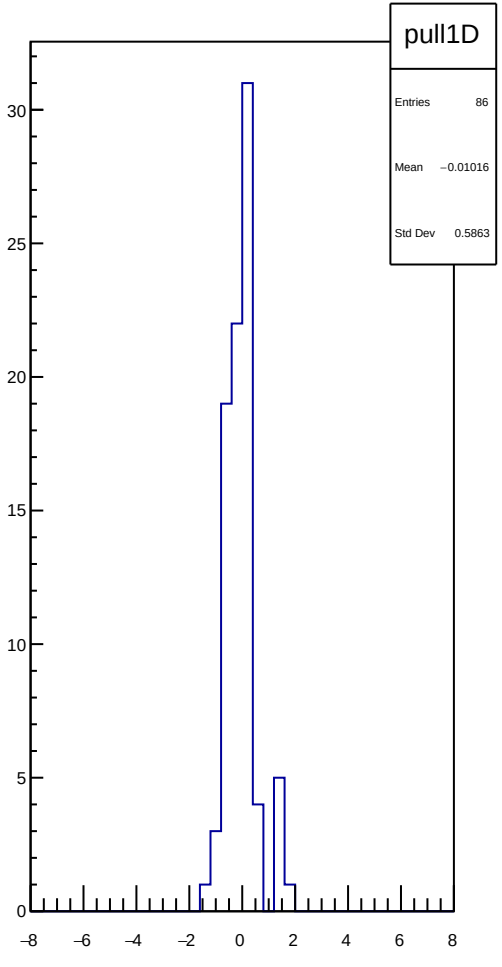

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 110.8 / 85
p0 −0.4971 ± 1.896
pull
Entries 86
Mean −213.3
Std Dev 259.6
pull1D
Entries 86
Mean 0.04513
Std Dev 1.134

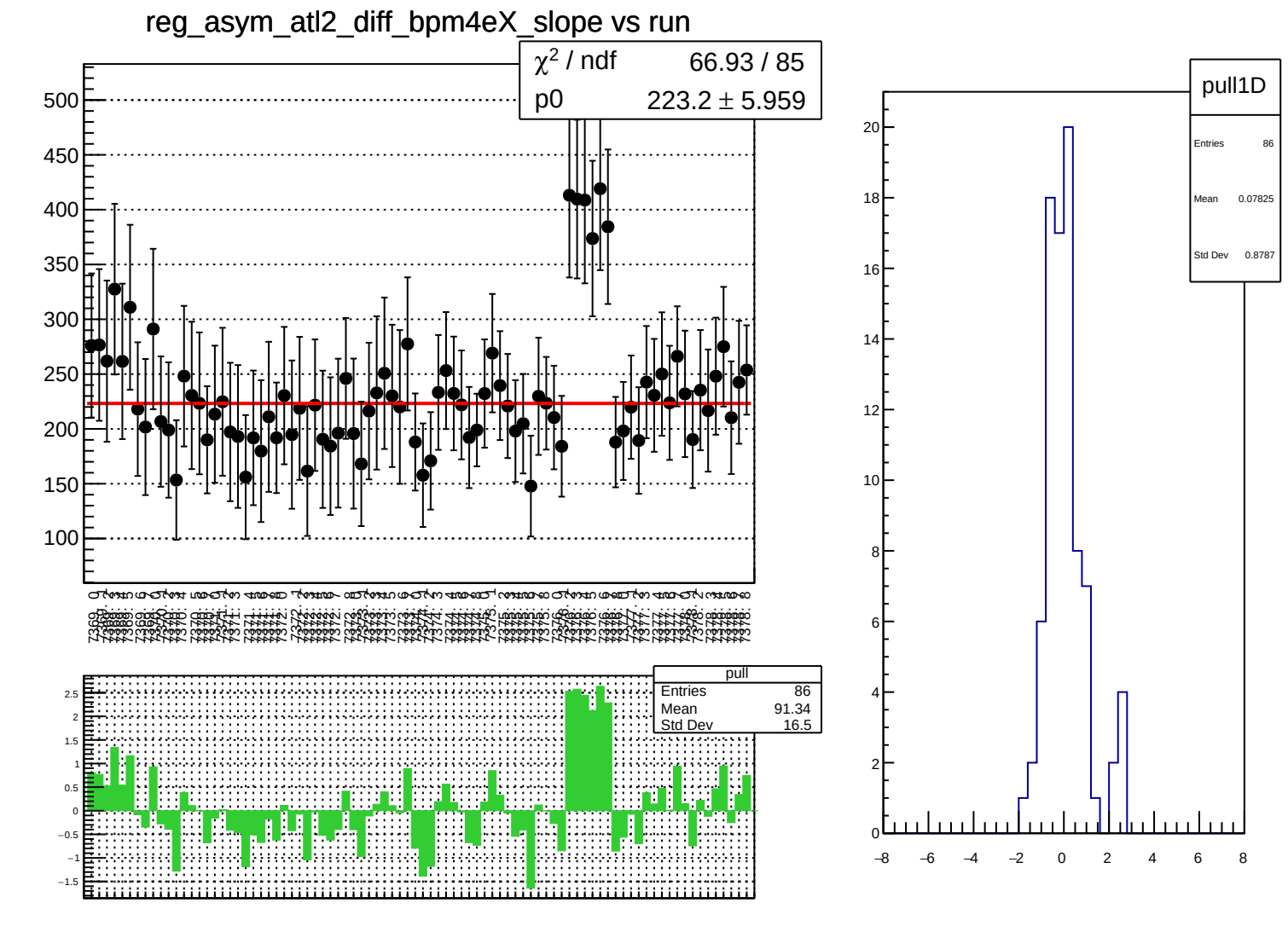

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 127.6 / 85
p0 −17.32 ± 0.08722
pull
Entries 86
Mean −591.4
Std Dev 638.1
pull1D
Entries 86
Mean 0.01735
Std Dev 1.218

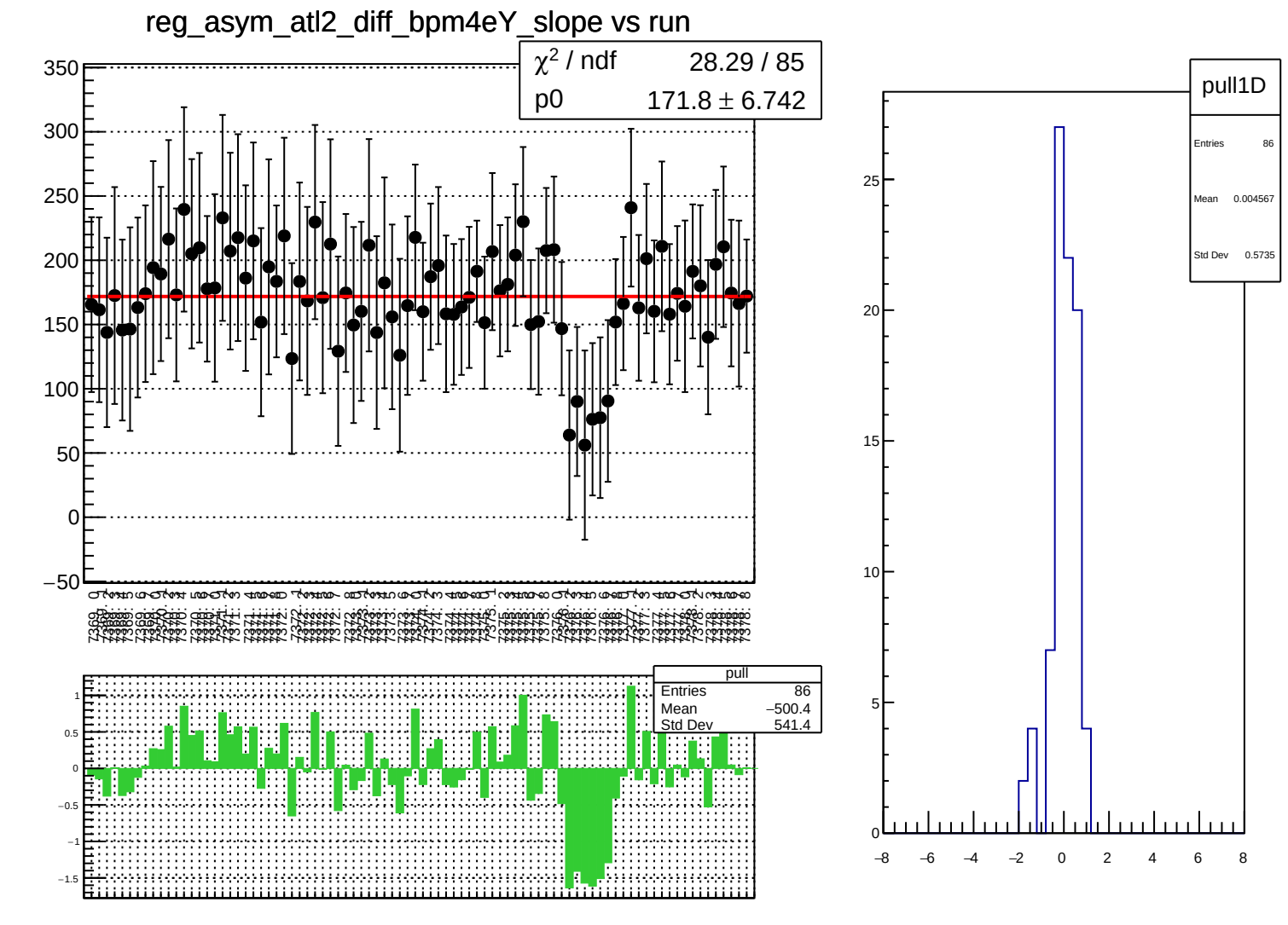

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 66.41 / 85
p0 −265.6 ± 5.734
pull
Entries 86
Mean 86.77
Std Dev 7.428

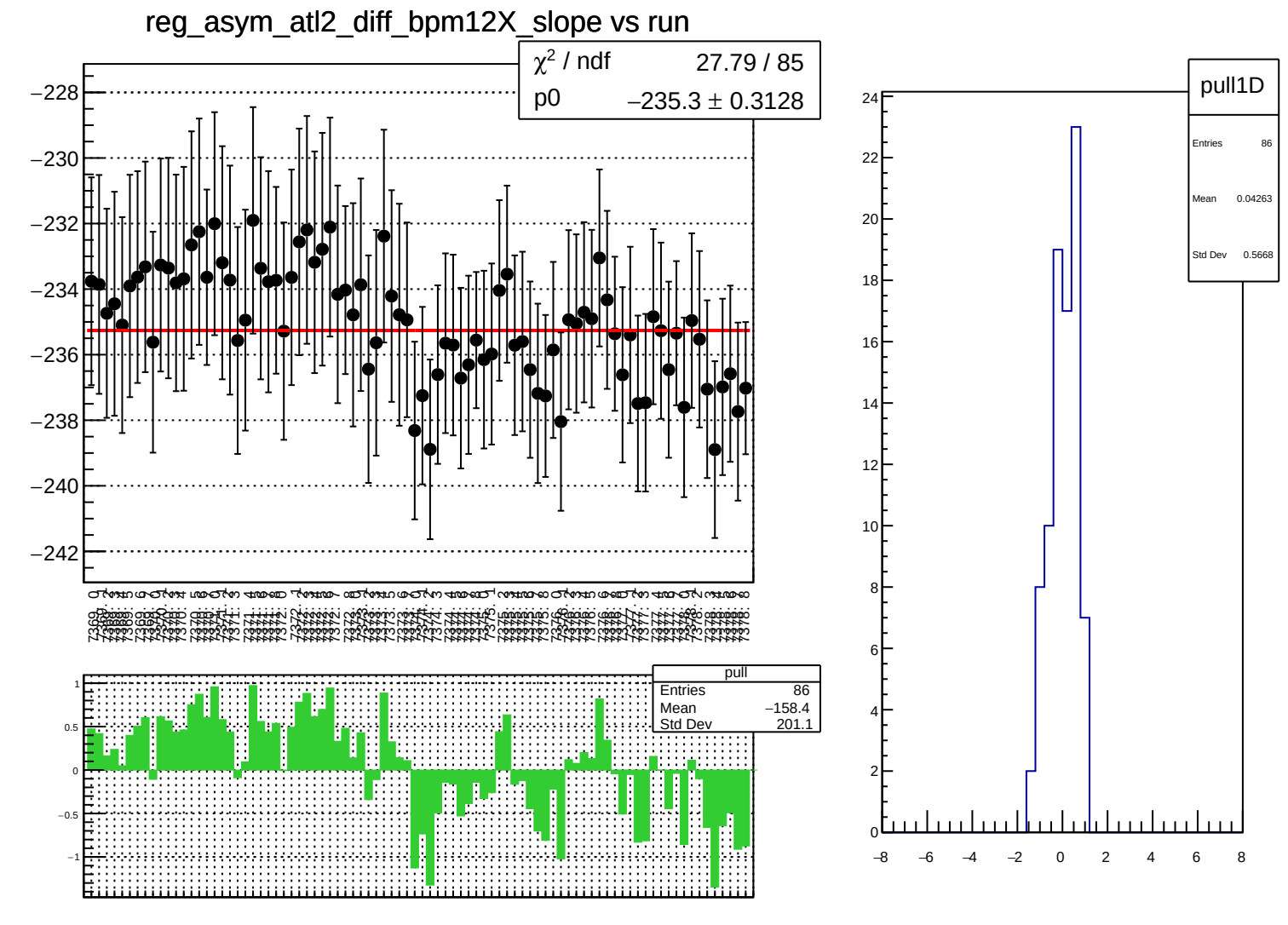

pull1D
Entries 86
Mean −0.07973
Std Dev 0.8752

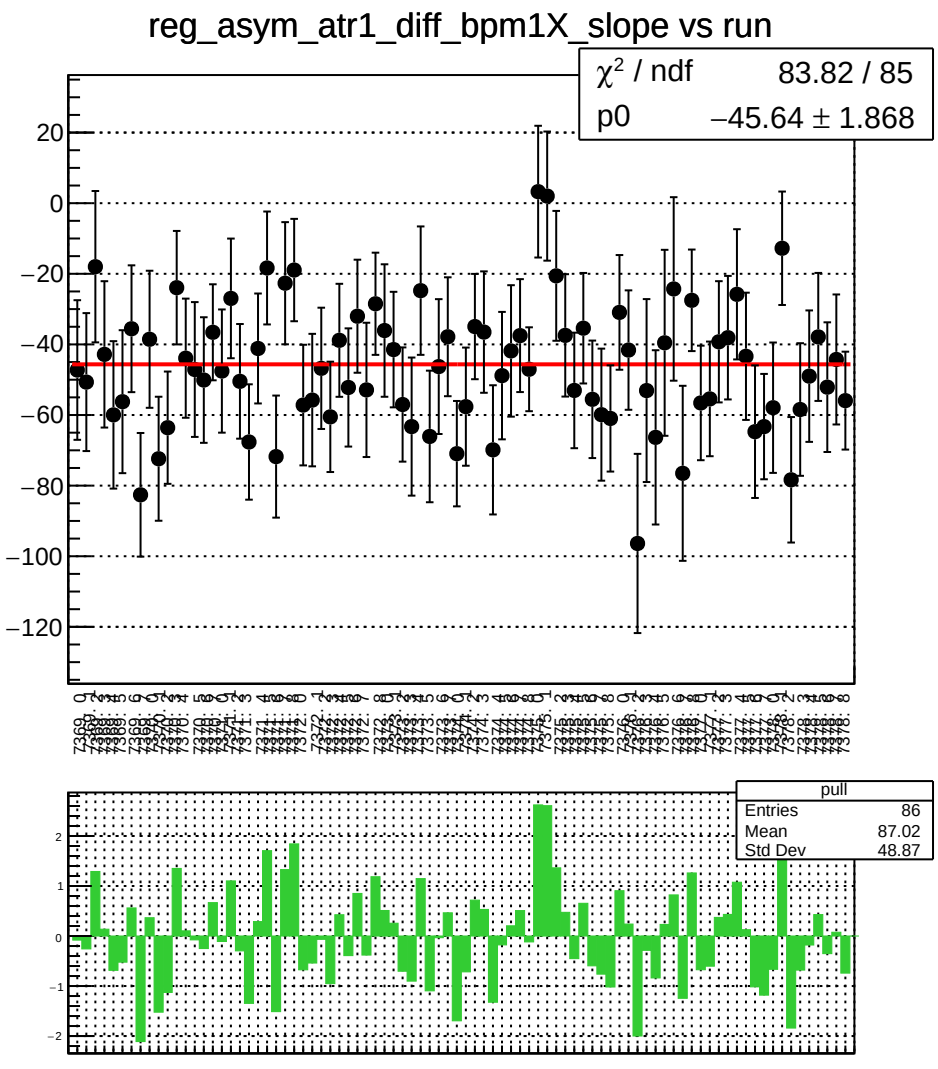

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 29.57 / 85
p0 −50.64 ± 6.326
pull
Entries 86
Mean −147.9
Std Dev 186.3

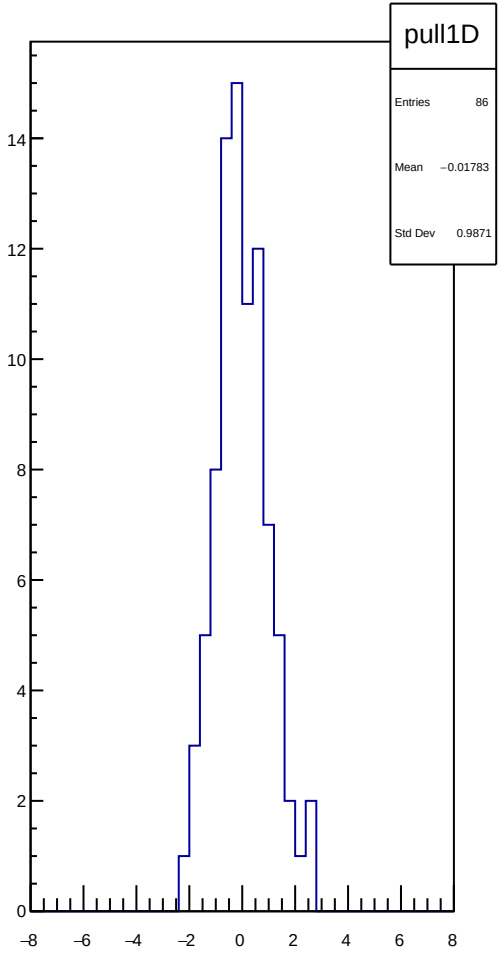

pull1D
Entries 86
Mean −0.01016
Std Dev 0.5863

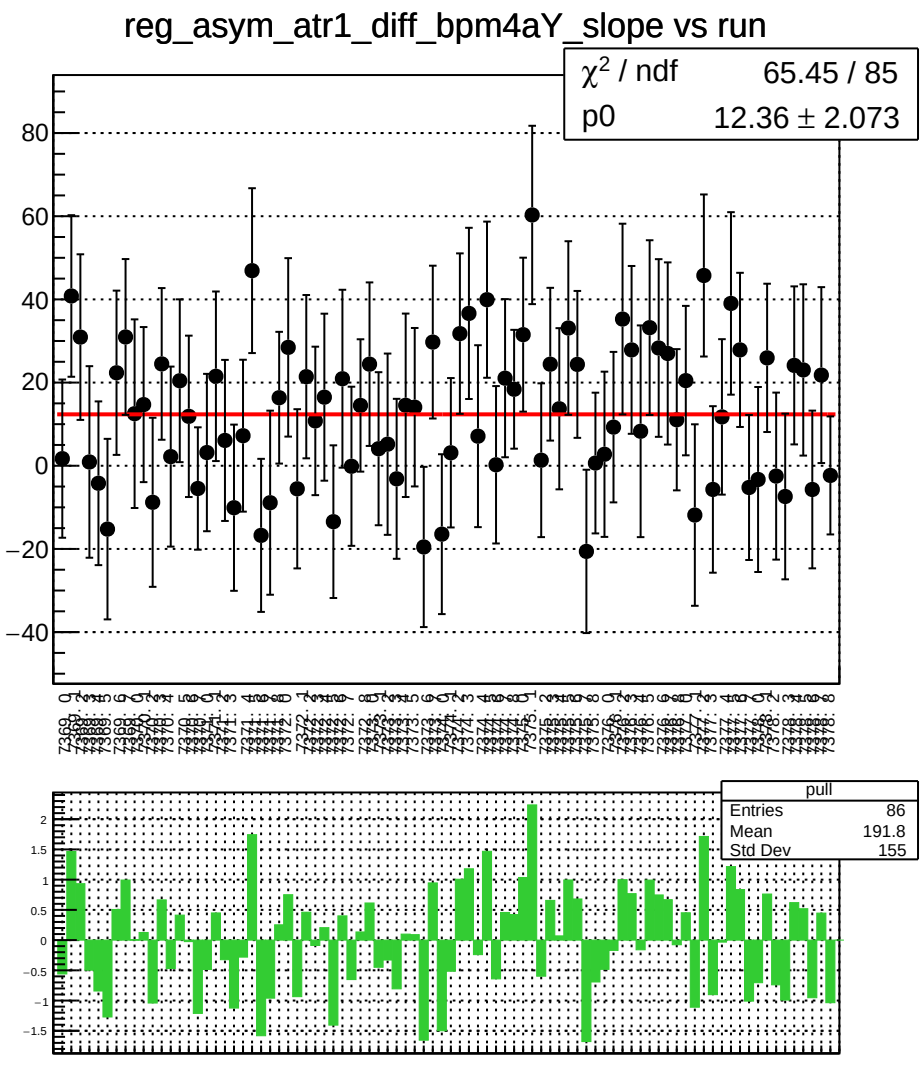

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 66.93 / 85
p0 223.2 ± 5.959
pull
Entries 86
Mean 91.34
Std Dev 16.5
pull1D
Entries 86
Mean 0.07825
Std Dev 0.8787

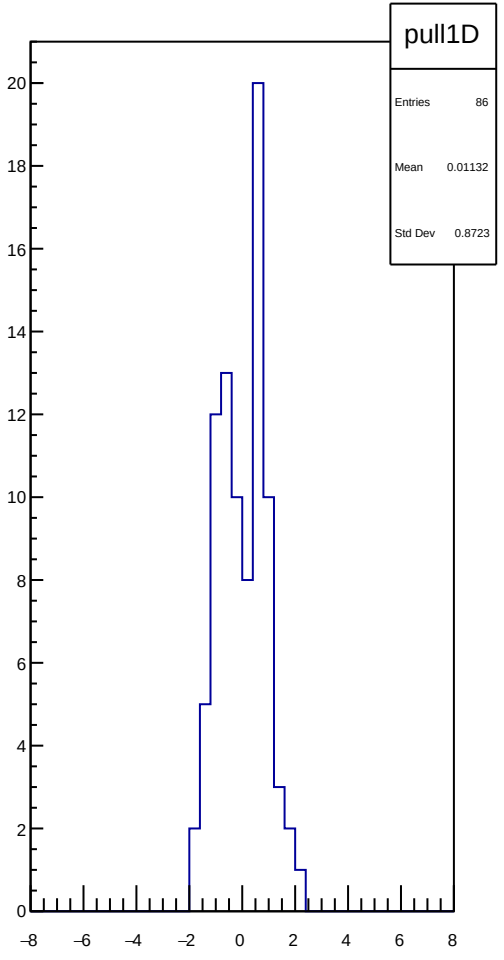

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 28.29 / 85
p0 171.8 ± 6.742
pull
Entries 86
Mean −500.4
Std Dev 541.4
pull1D
Entries 86
Mean 0.004567
Std Dev 0.5735

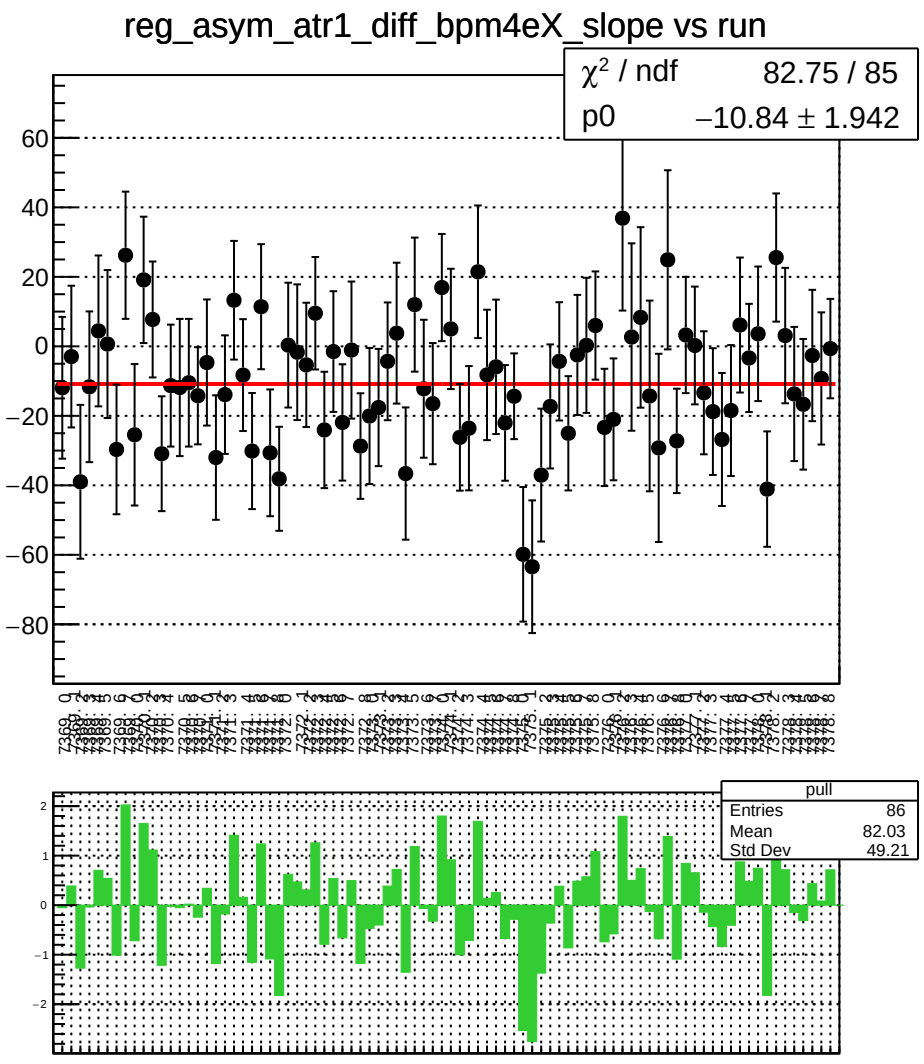

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 27.79 / 85
p0 −235.3 ± 0.3128
pull
Entries 86
Mean −158.4
Std Dev 201.1
pull1D
Entries 86
Mean 0.04263
Std Dev 0.5668

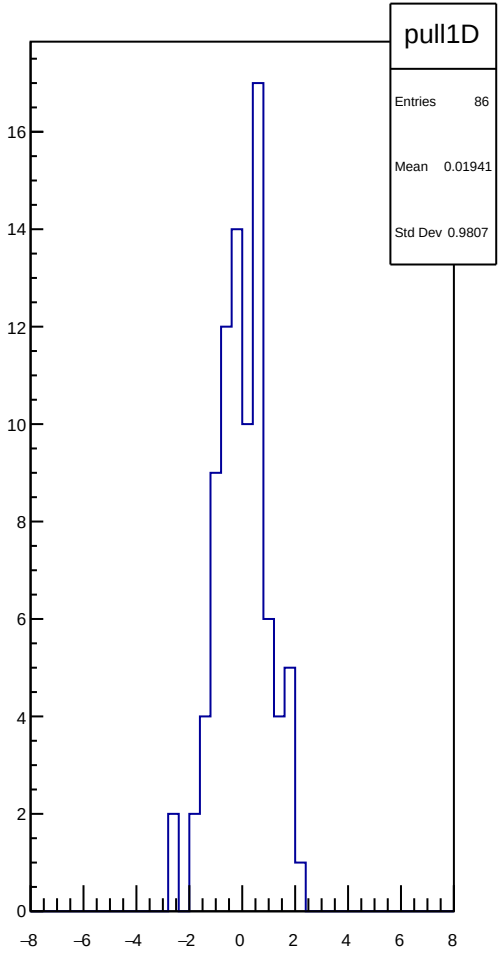

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 83.82 / 85
p0 −45.64 ± 1.868
pull
Entries 86
Mean 87.02
Std Dev 48.87

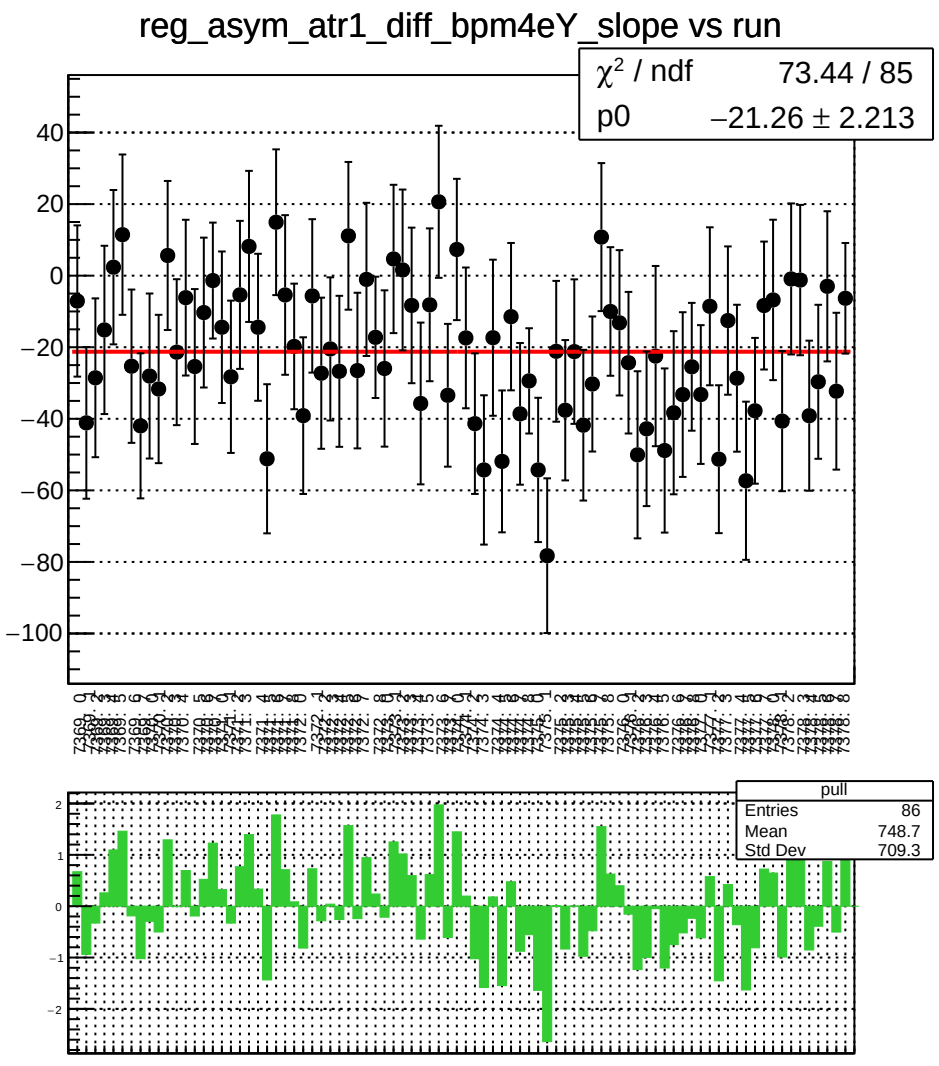

pull1D
Entries 86
Mean −0.01783
Std Dev 0.9871

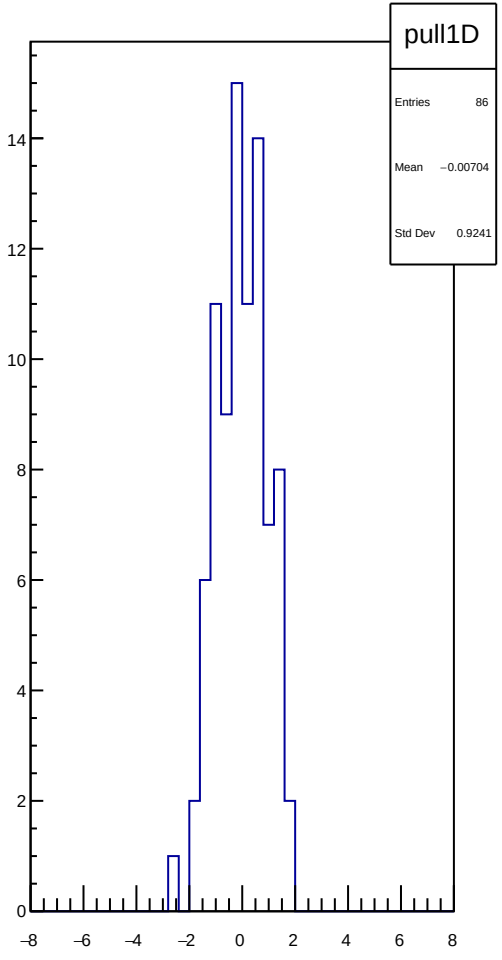

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 65.45 / 85
p0 12.36 ± 2.073
pull
Entries 86
Mean 191.8
Std Dev 155

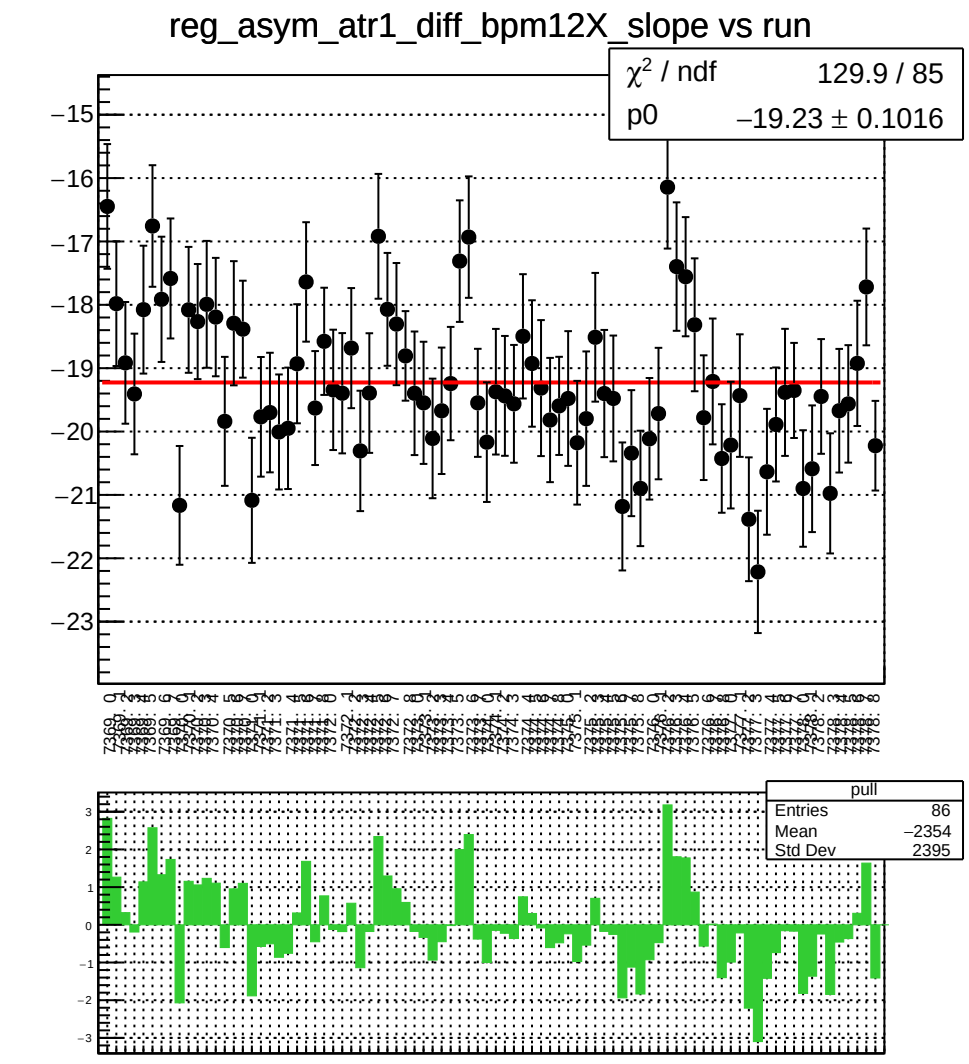

pull1D
Entries 86
Mean 0.01132
Std Dev 0.8723

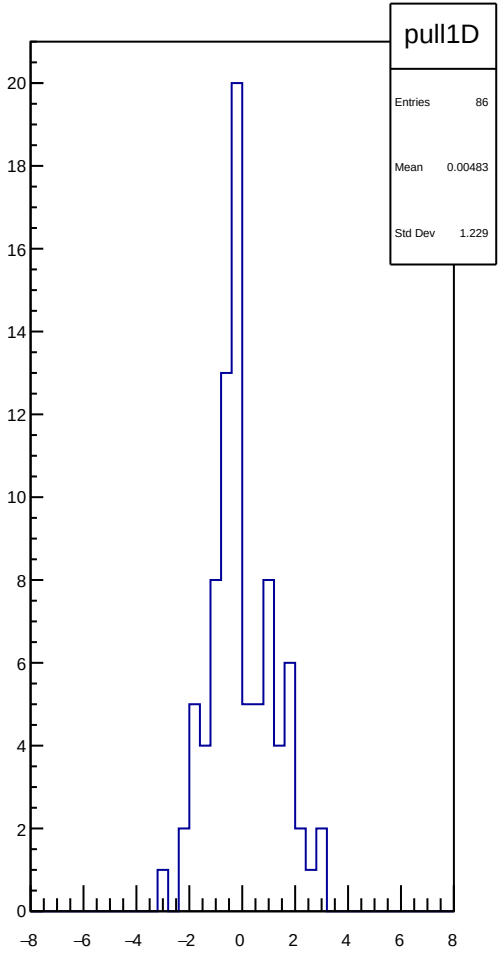

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 82.75 / 85
p0 −10.84 ± 1.942
pull
Entries 86
Mean 82.03
Std Dev 49.21

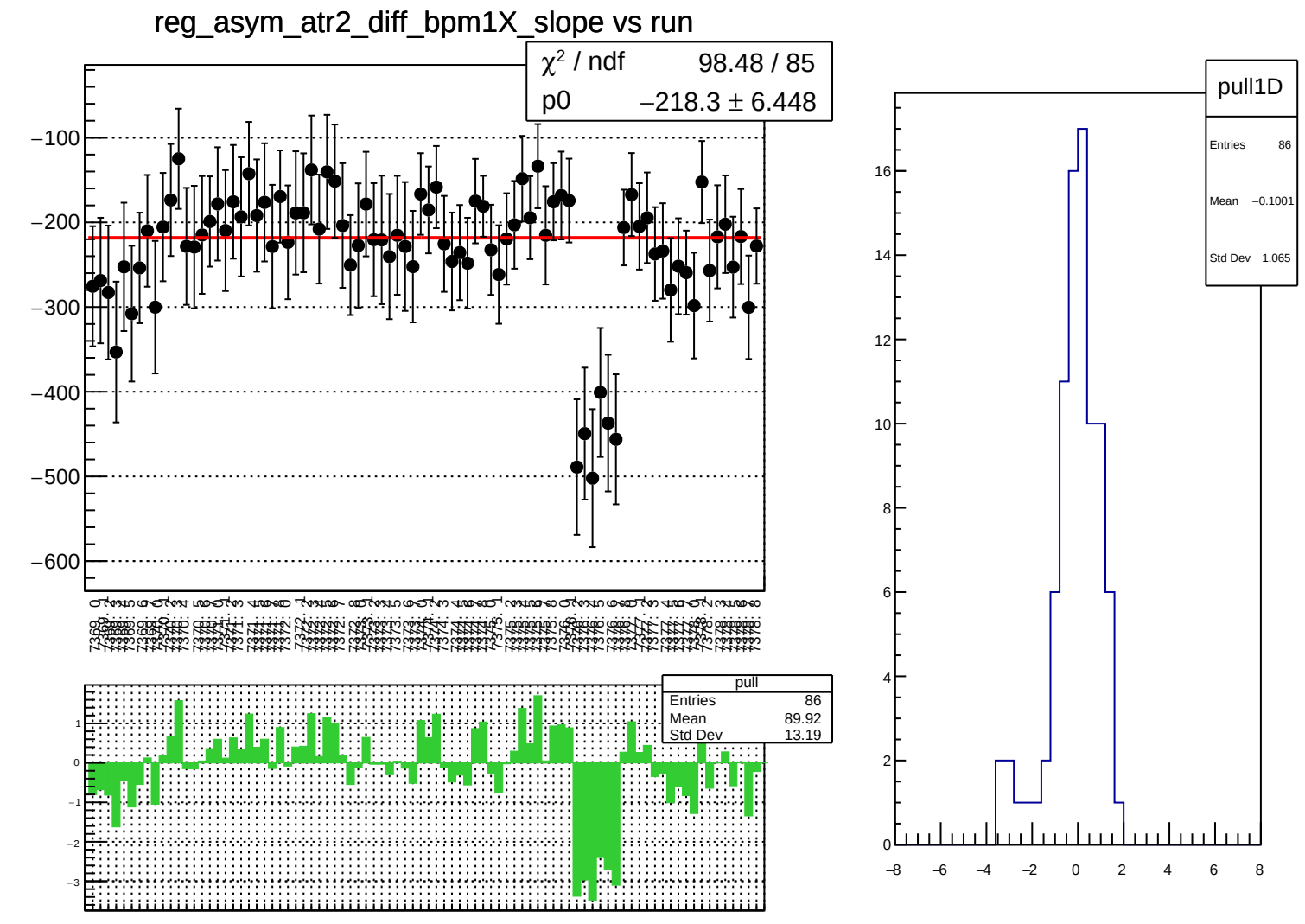

pull1D
Entries 86
Mean 0.01941
Std Dev 0.9807

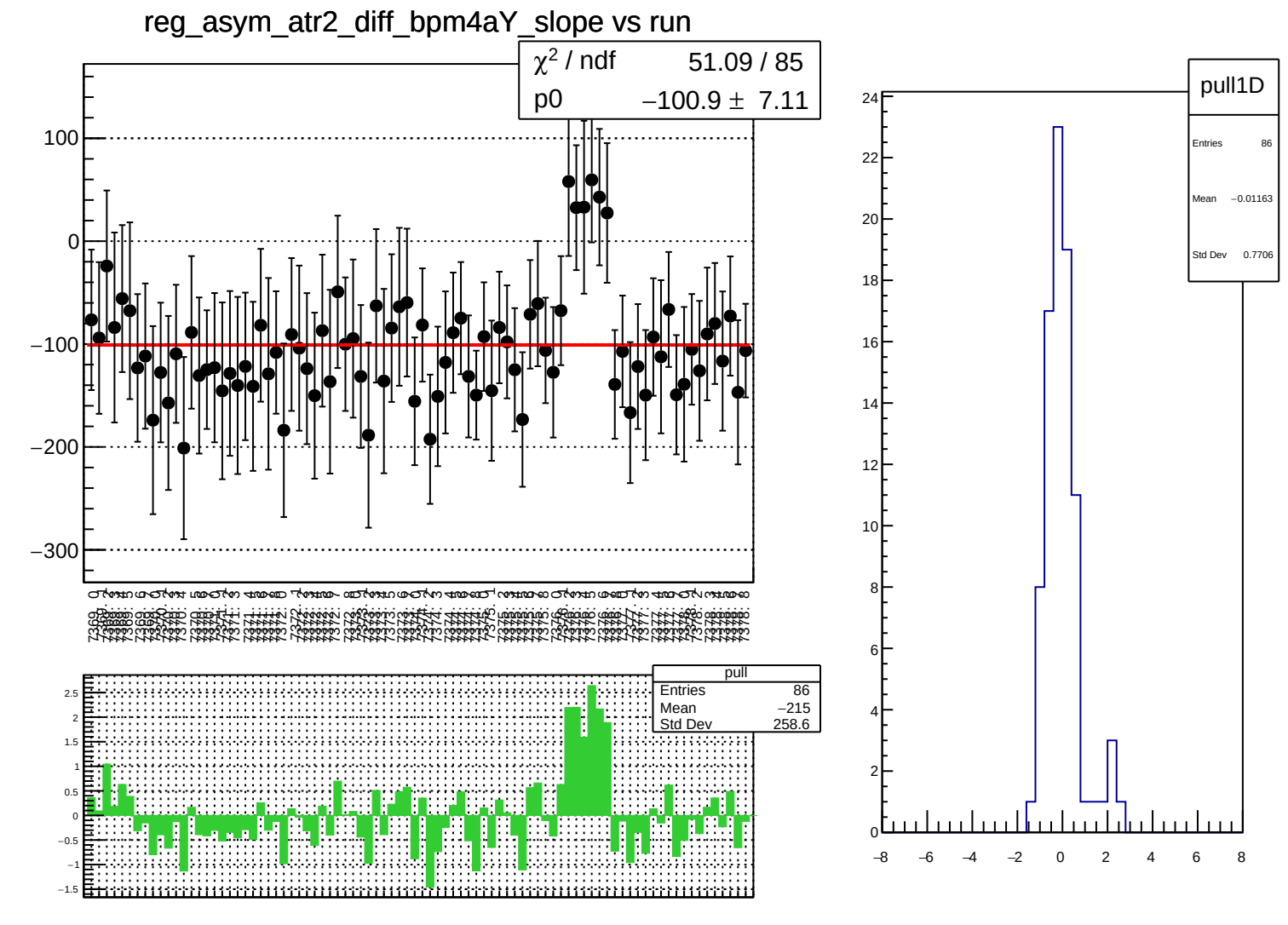

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 73.44 / 85
p0 −21.26 ± 2.213
pull
Entries 86
Mean 748.7
Std Dev 709.3

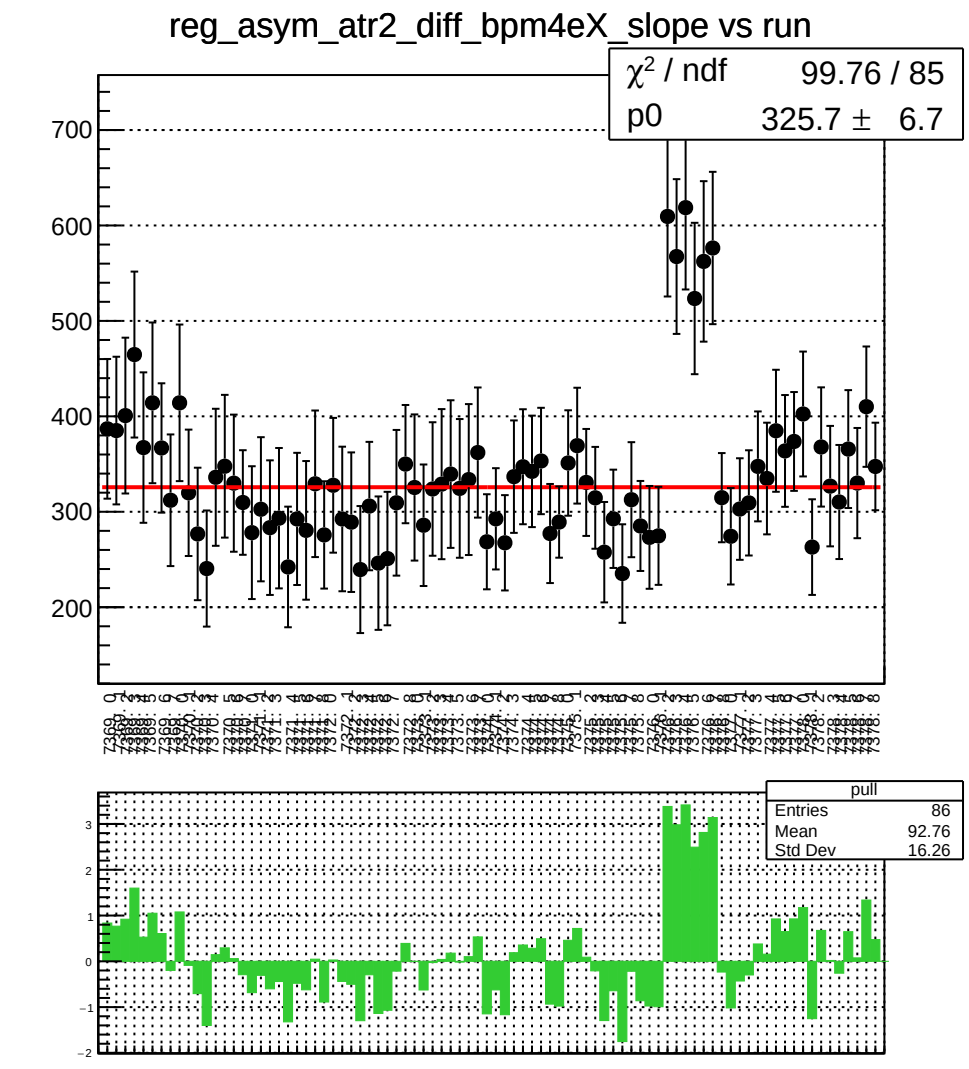

pull1D
Entries 86
Mean −0.00704
Std Dev 0.9241

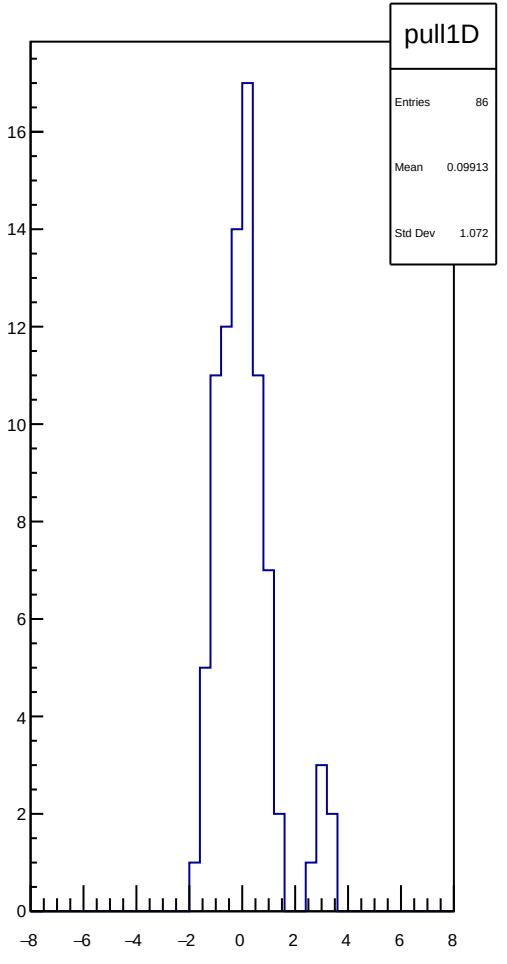

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 129.9 / 85
p0 −19.23 ± 0.1016
pull
Entries 86
Mean −2354
Std Dev 2395

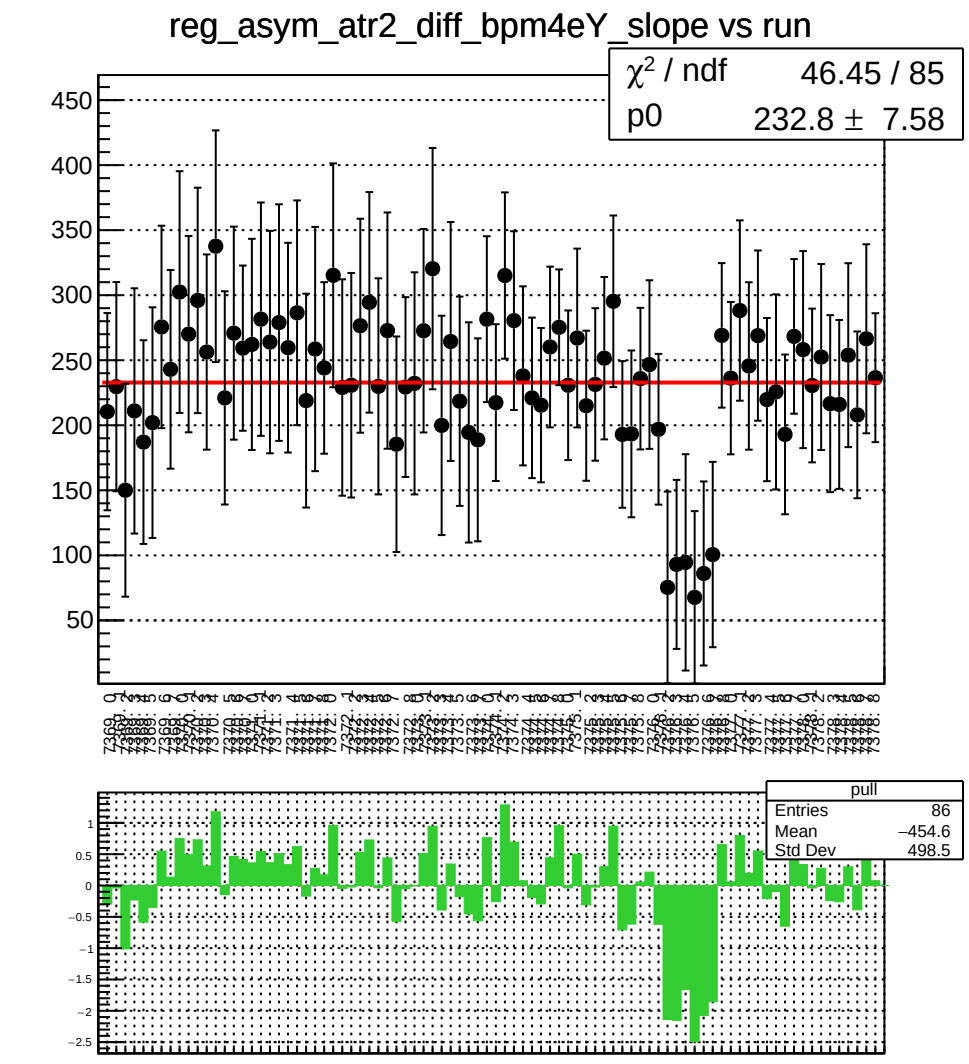

pull1D
Entries 86
Mean 0.00483
Std Dev 1.229

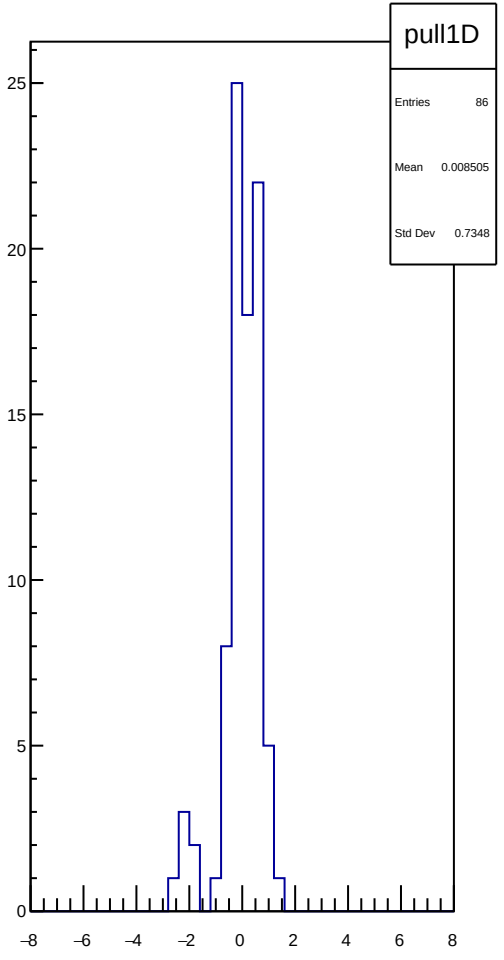

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 98.48 / 85
p0 −218.3 ± 6.448
−100
−200
−300
−400
−500
−600
pull
Entries 86
Mean 89.92
Std Dev 13.19
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.1001
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

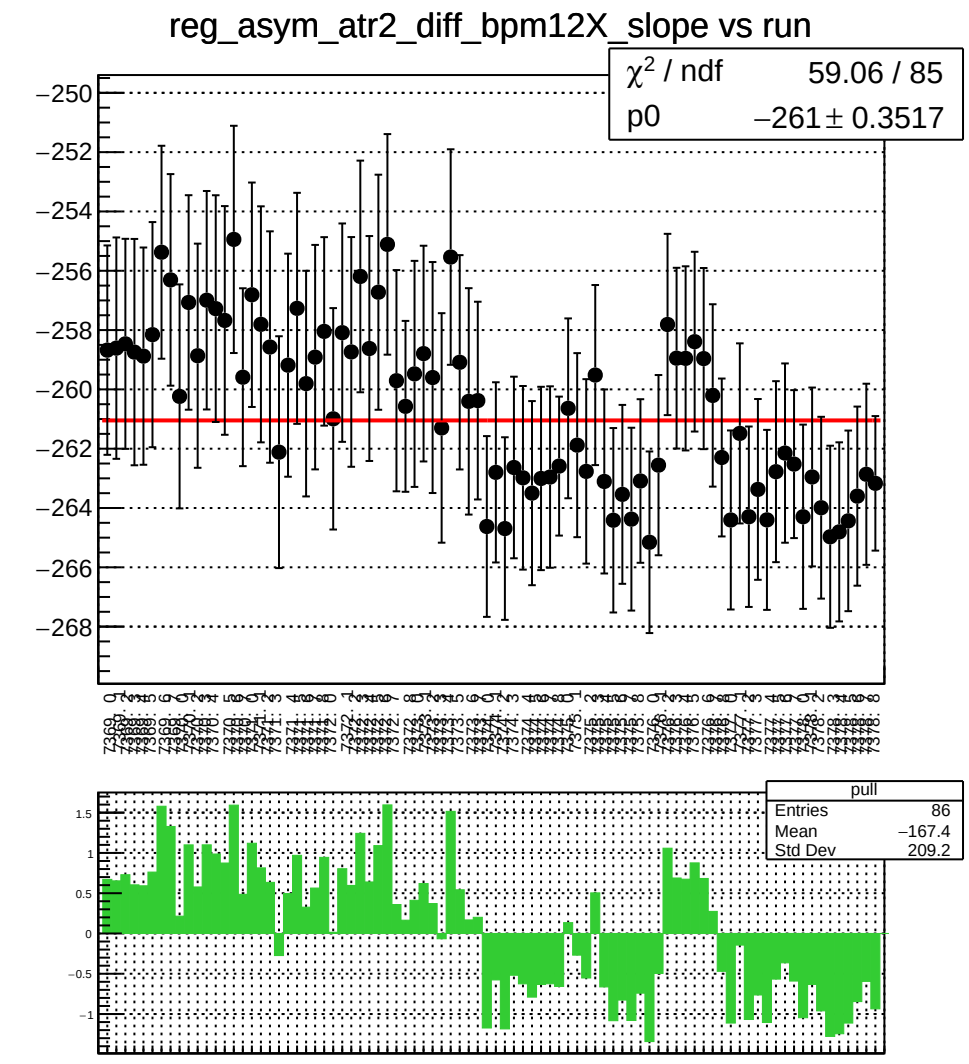

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 51.09 / 85
p0 −100.9 ± 7.11
100
0
−100
−200
−300
pull
Entries 86
Mean −215
Std Dev 258.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean −0.01163
Std Dev 0.7706
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

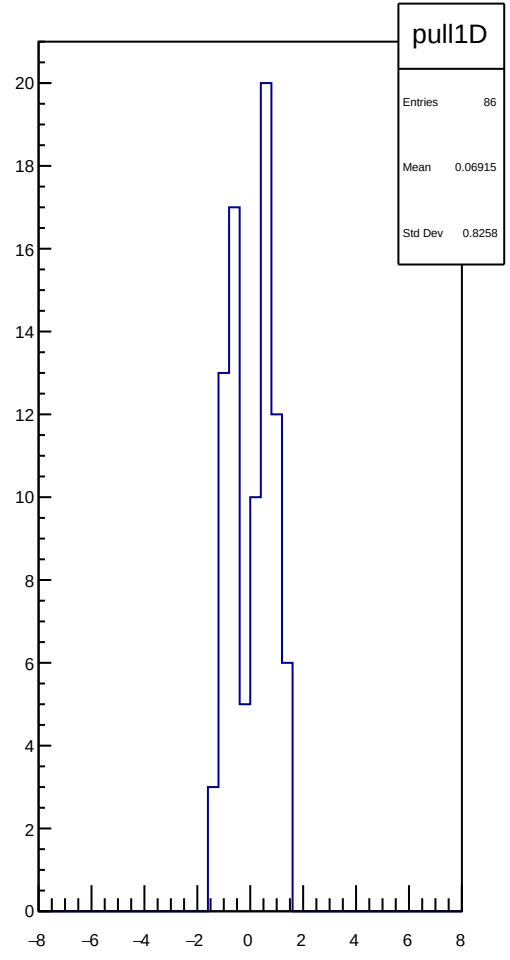

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 99.76 / 85
p0 325.7 ± 6.7
700
600
500
400
300
200
pull
Entries 86
Mean 92.76
Std Dev 16.26
3
2
1
0
−1
−2

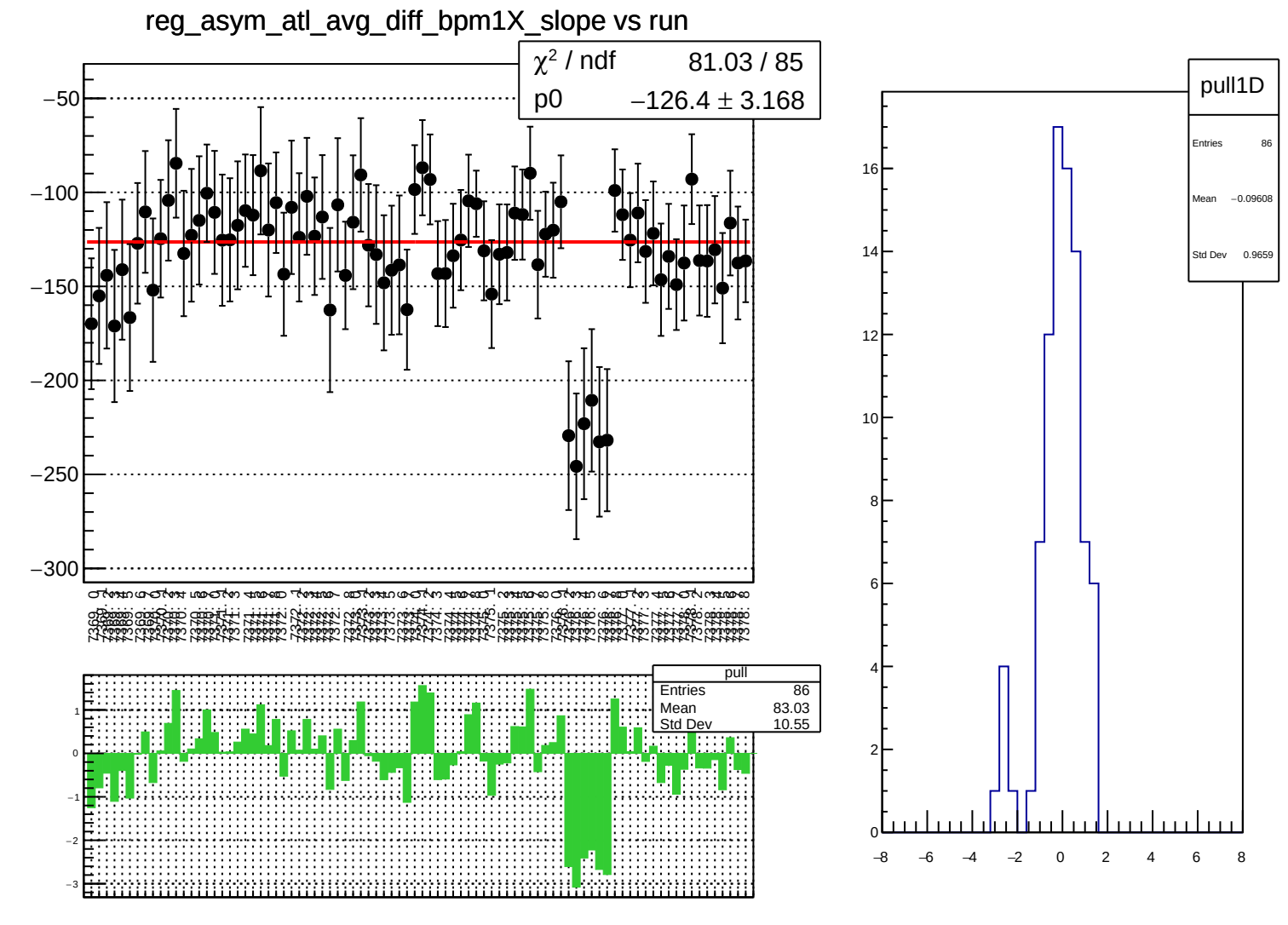

pull1D
Entries 86
Mean 0.09913
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

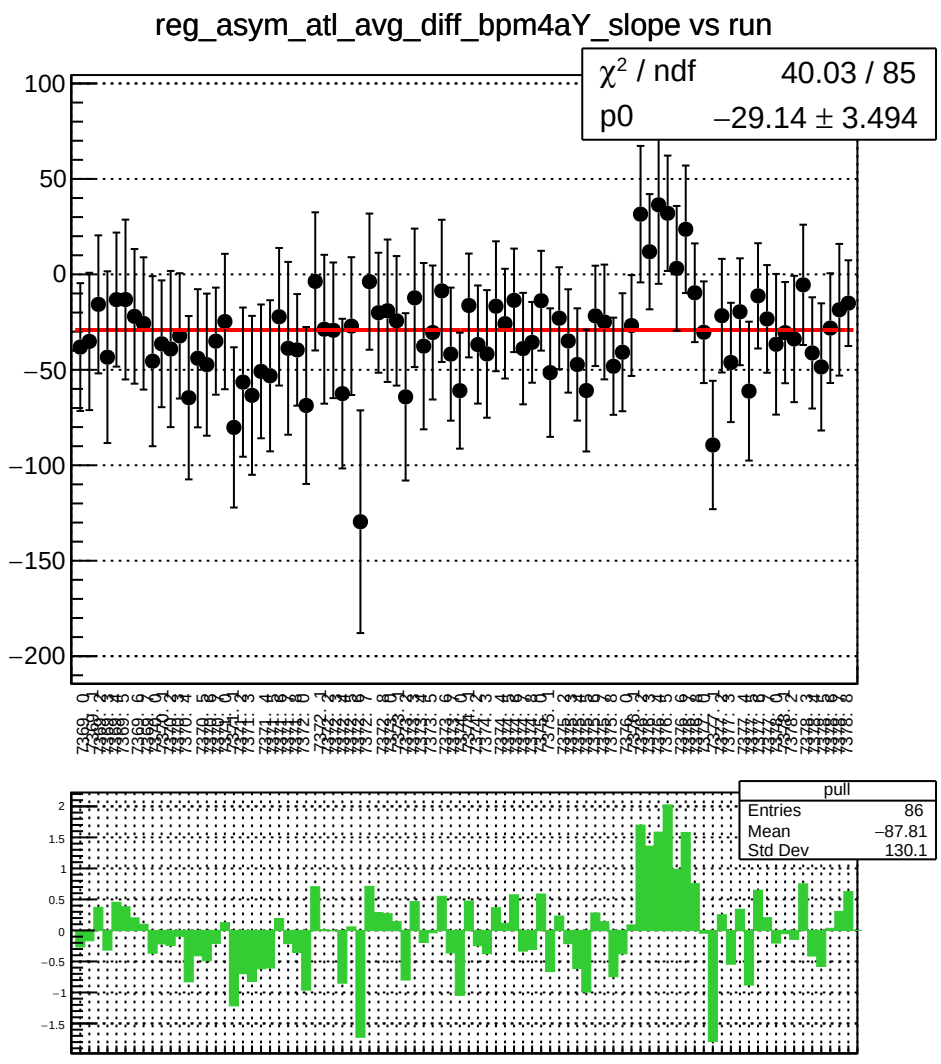

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 46.45 / 85
p0 232.8 ± 7.58
pull
Entries 86
Mean −454.6
Std Dev 498.5

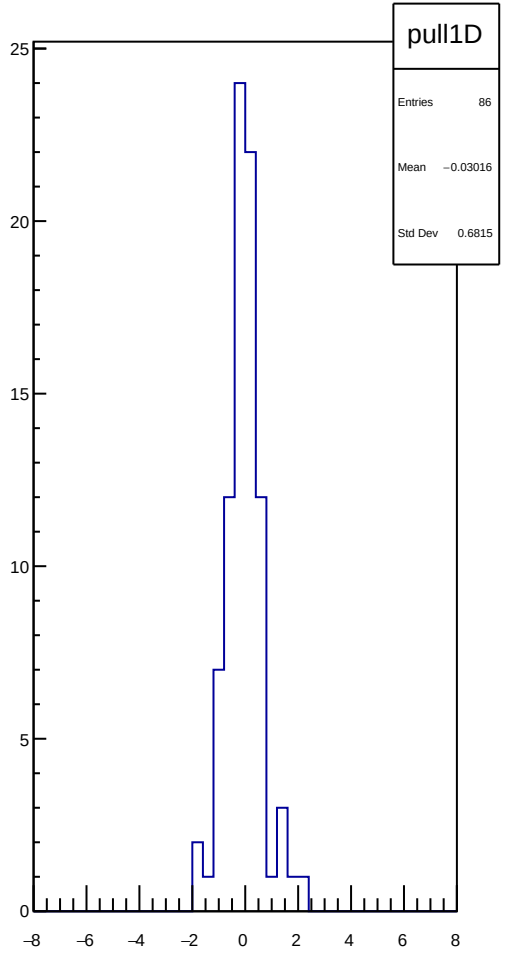

pull1D
Entries 86
Mean 0.008505
Std Dev 0.7348

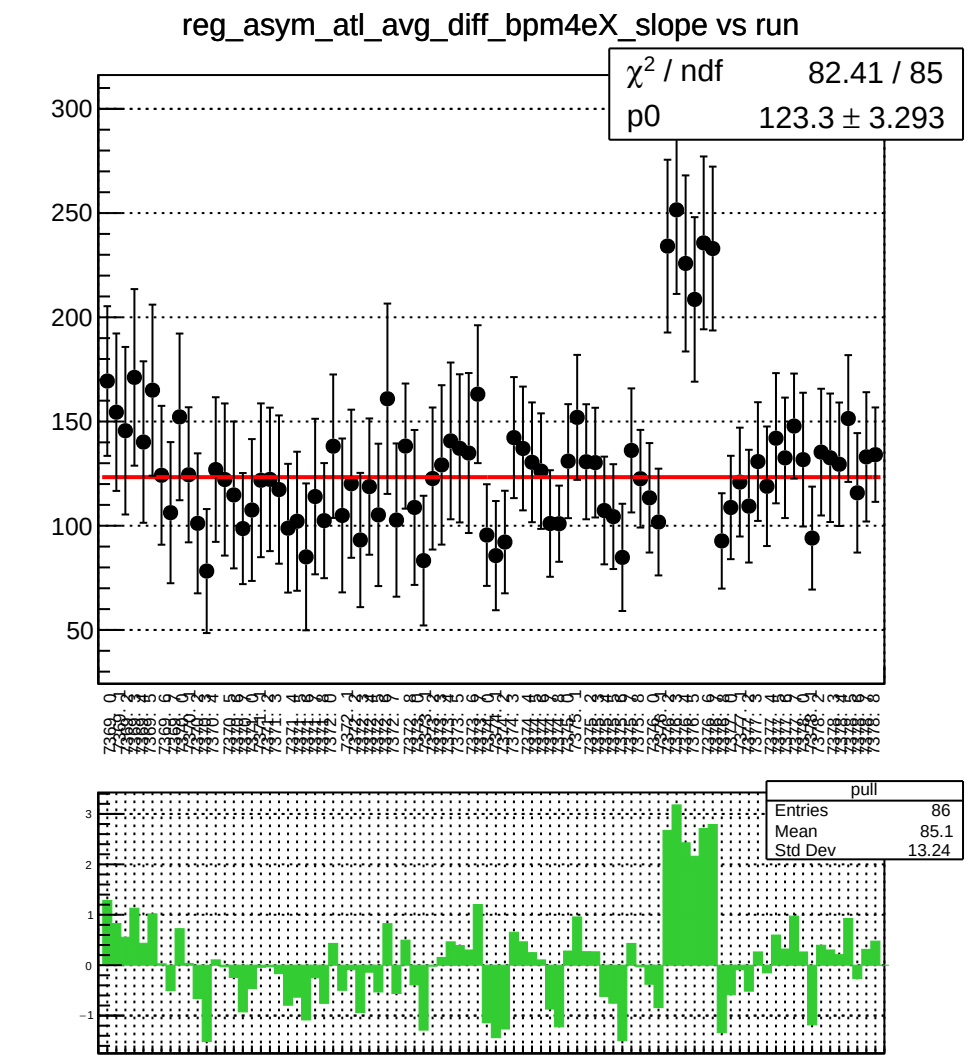

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 59.06 / 85
p0 −261 ± 0.3517
pull
Entries 86
Mean −167.4
Std Dev 209.2

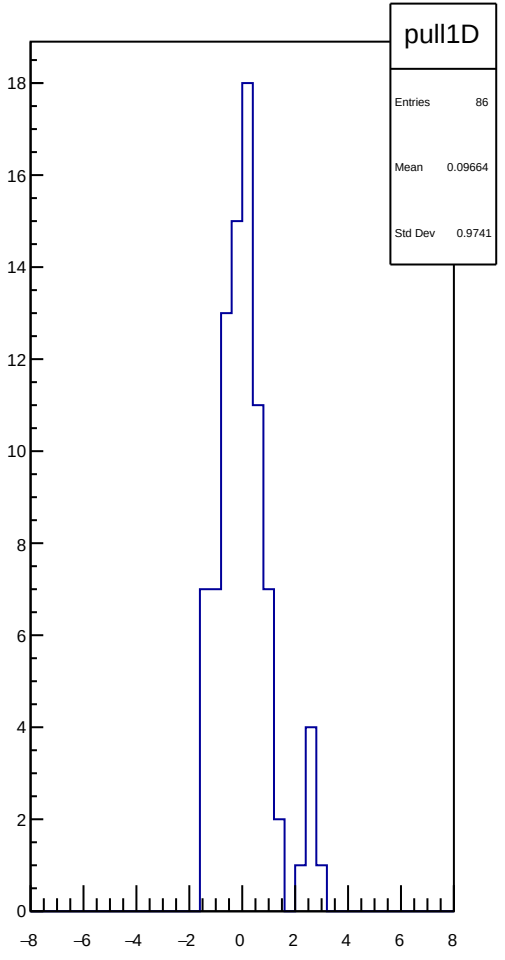

pull1D
Entries 86
Mean 0.06915
Std Dev 0.8258

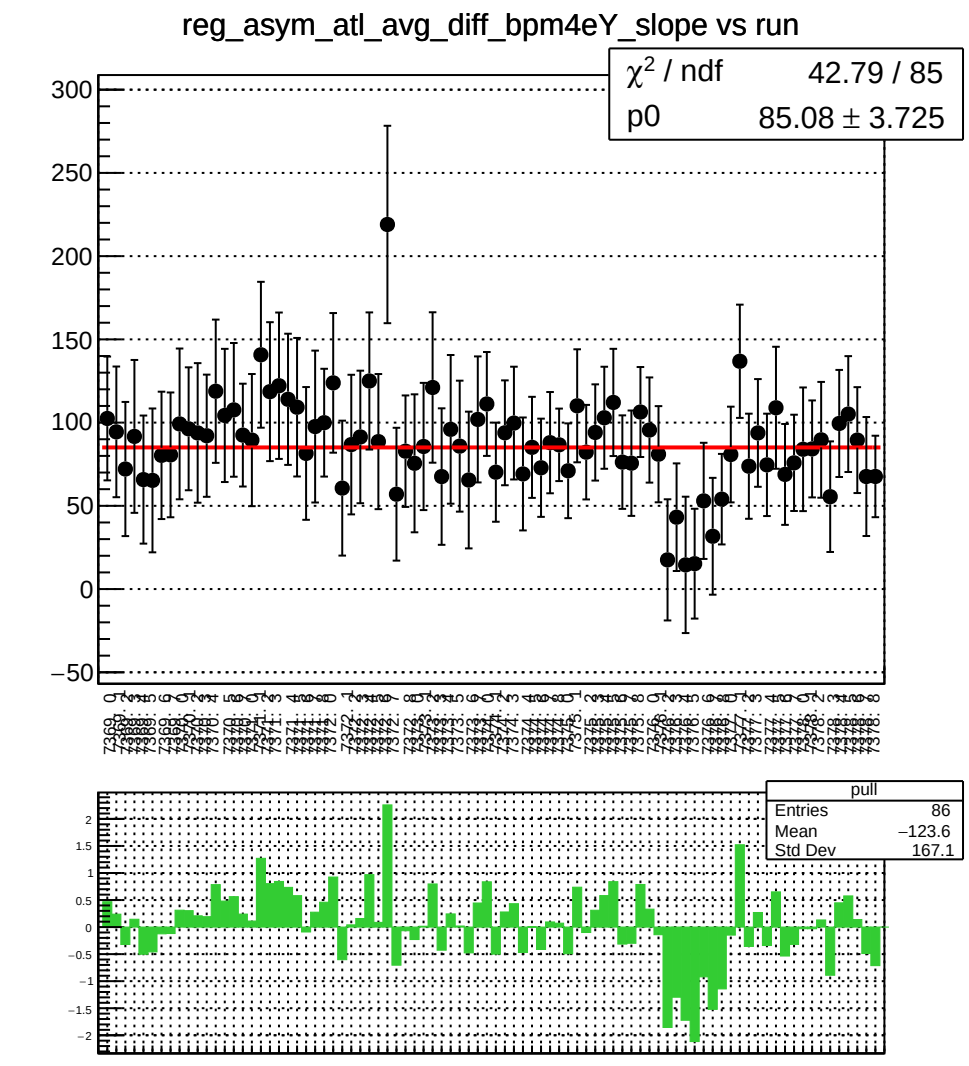

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 81.03 / 85
p0 −126.4 ± 3.168
pull
Entries 86
Mean 83.03
Std Dev 10.55
pull1D
Entries 86
Mean −0.09608
Std Dev 0.9659

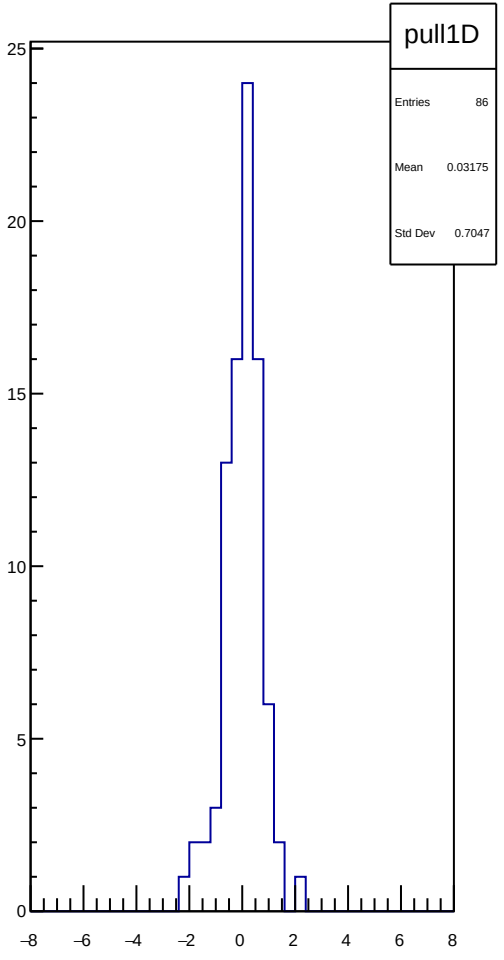

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.03 / 85
p0 −29.14 ± 3.494
pull
Entries 86
Mean −87.81
Std Dev 130.1

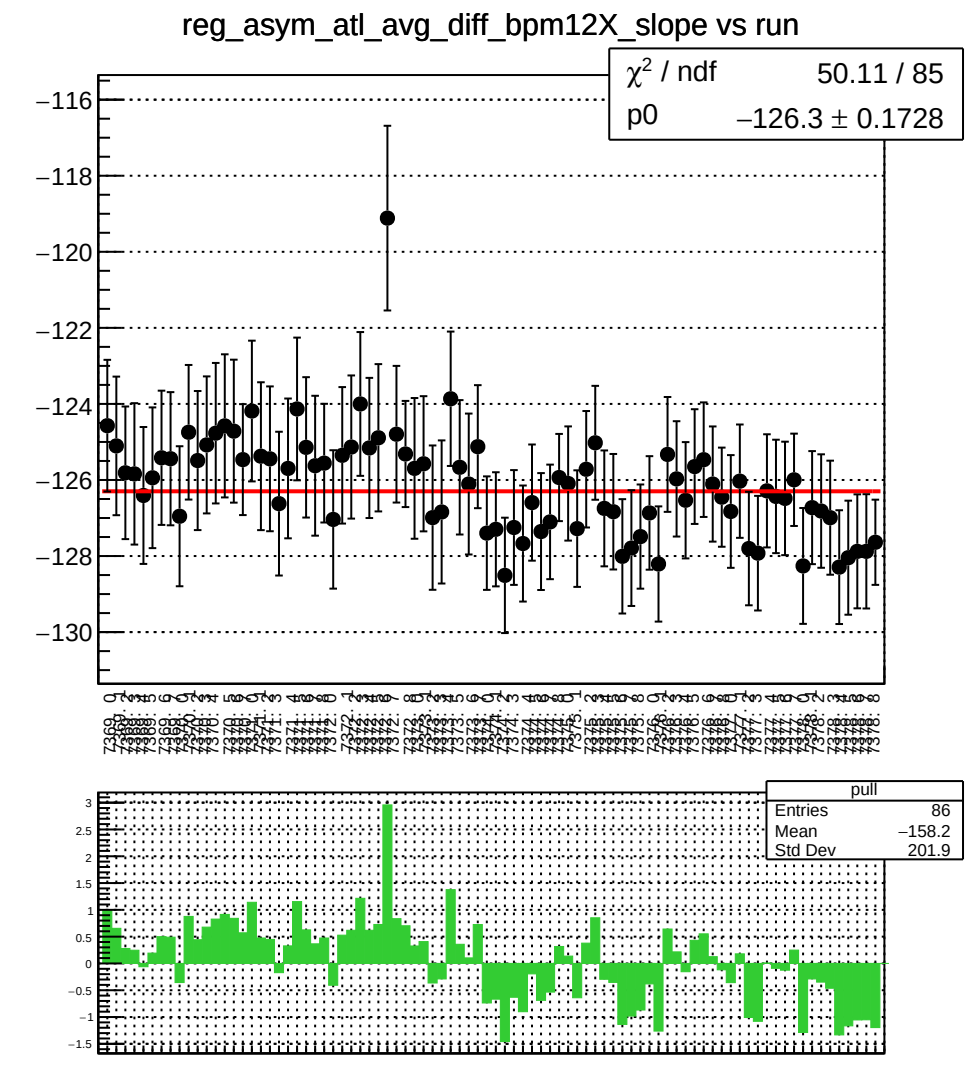

pull1D
Entries 86
Mean −0.03016
Std Dev 0.6815

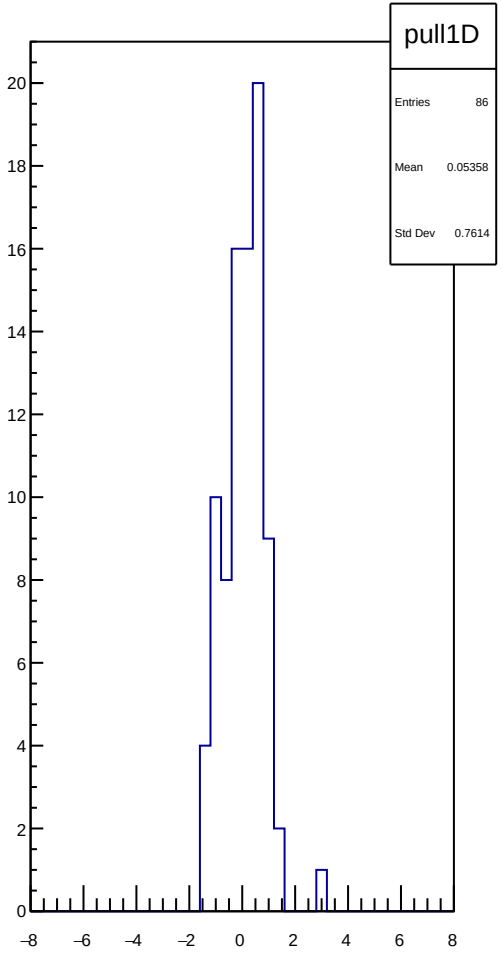

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 82.41 / 85
p0 123.3 ± 3.293
pull
Entries 86
Mean 85.1
Std Dev 13.24

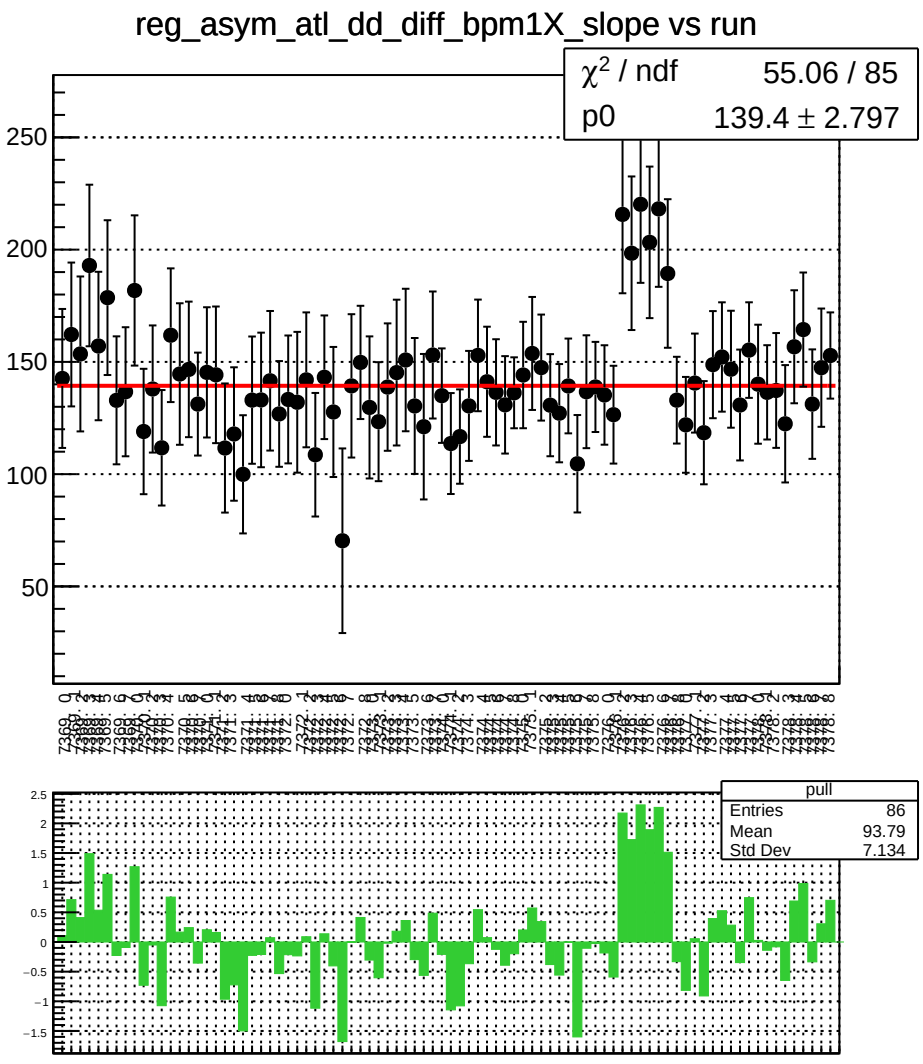

pull1D
Entries 86
Mean 0.09664
Std Dev 0.9741

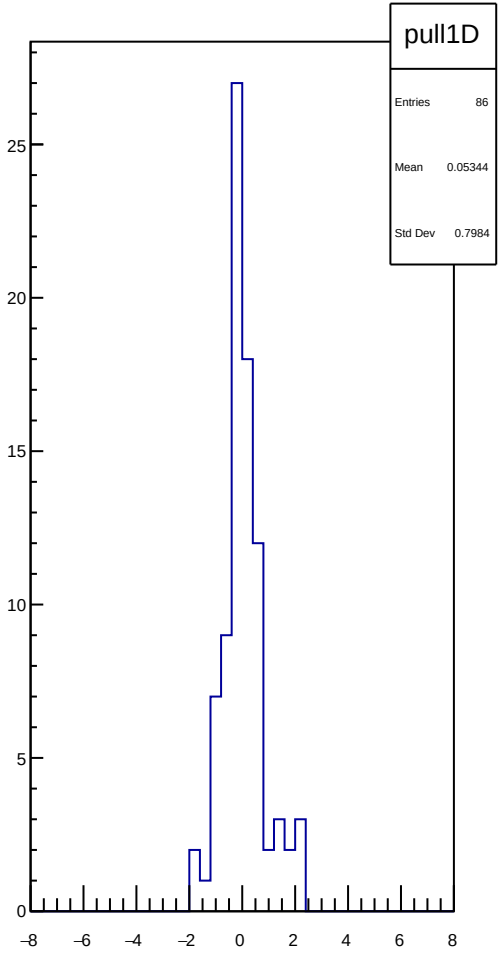

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.79 / 85
p0 85.08 ± 3.725
pull
Entries 86
Mean −123.6
Std Dev 167.1

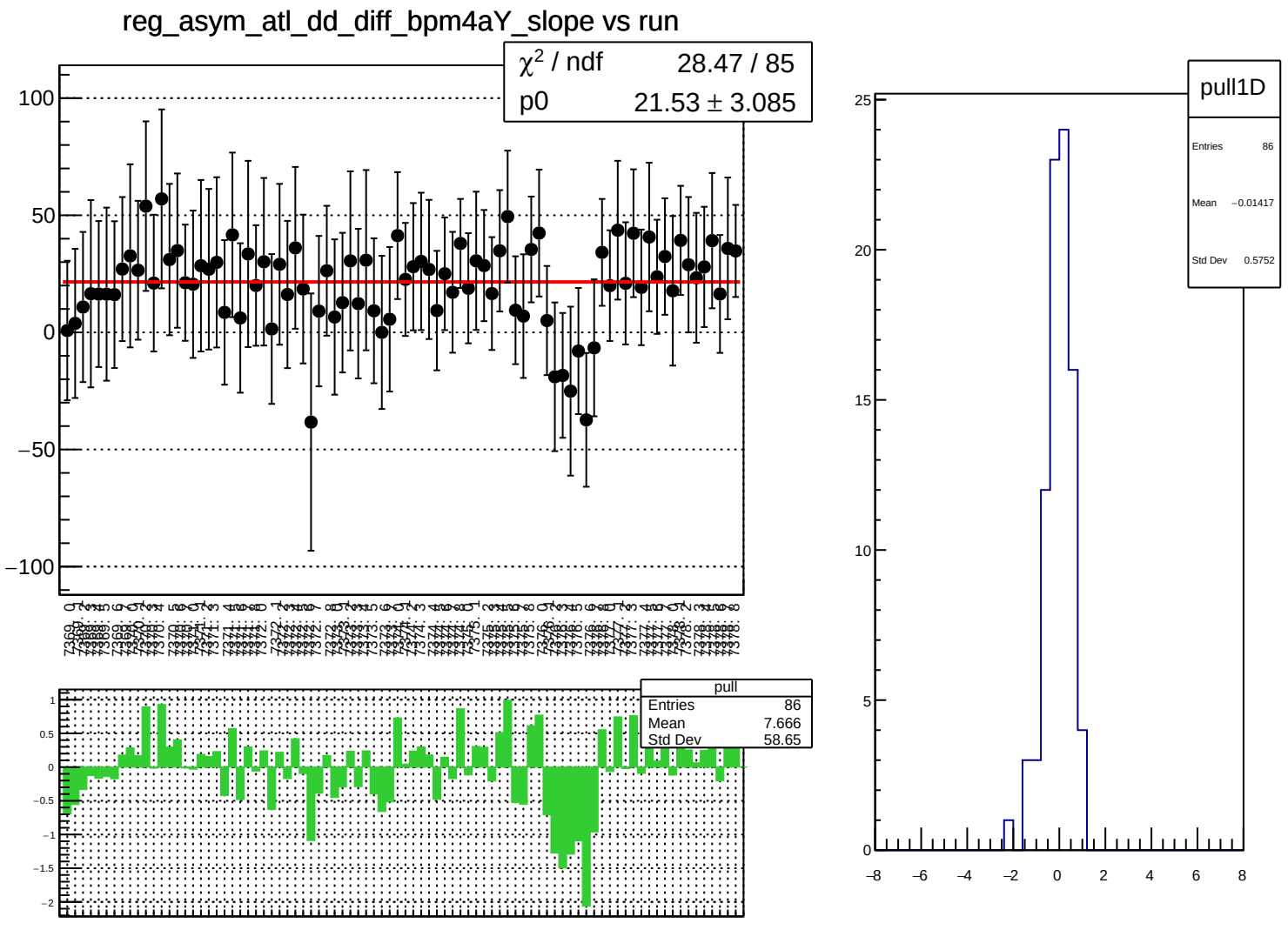

pull1D
Entries 86
Mean 0.03175
Std Dev 0.7047

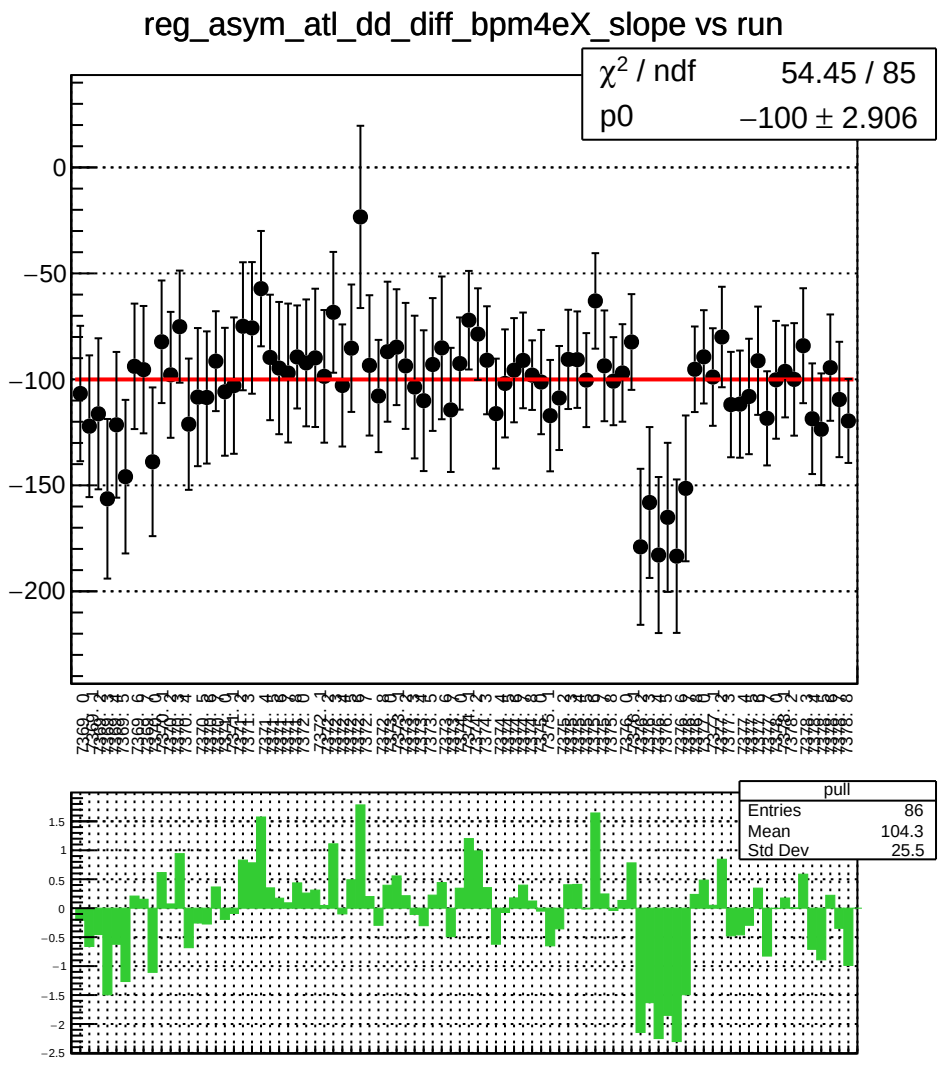

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 50.11 / 85
p0 −126.3 ± 0.1728
pull
Entries 86
Mean −158.2
Std Dev 201.9

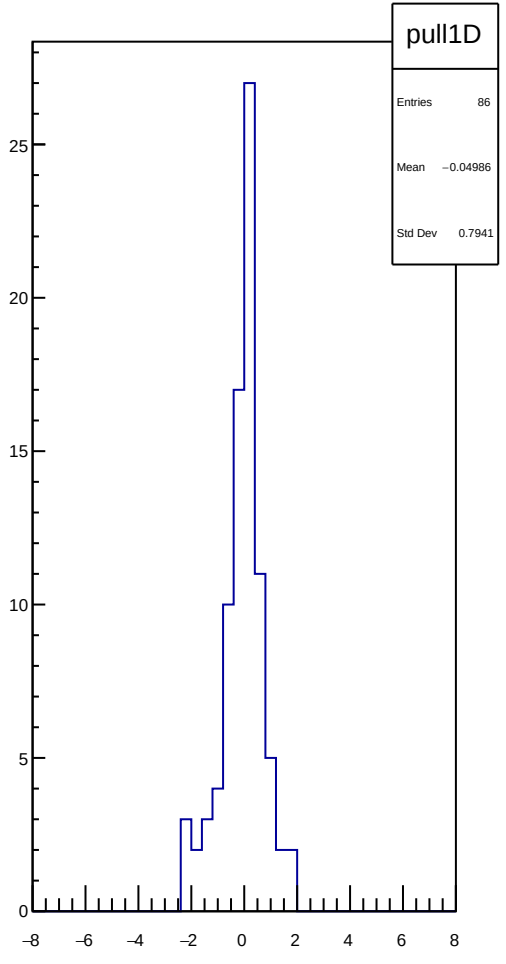

pull1D
Entries 86
Mean 0.05358
Std Dev 0.7614

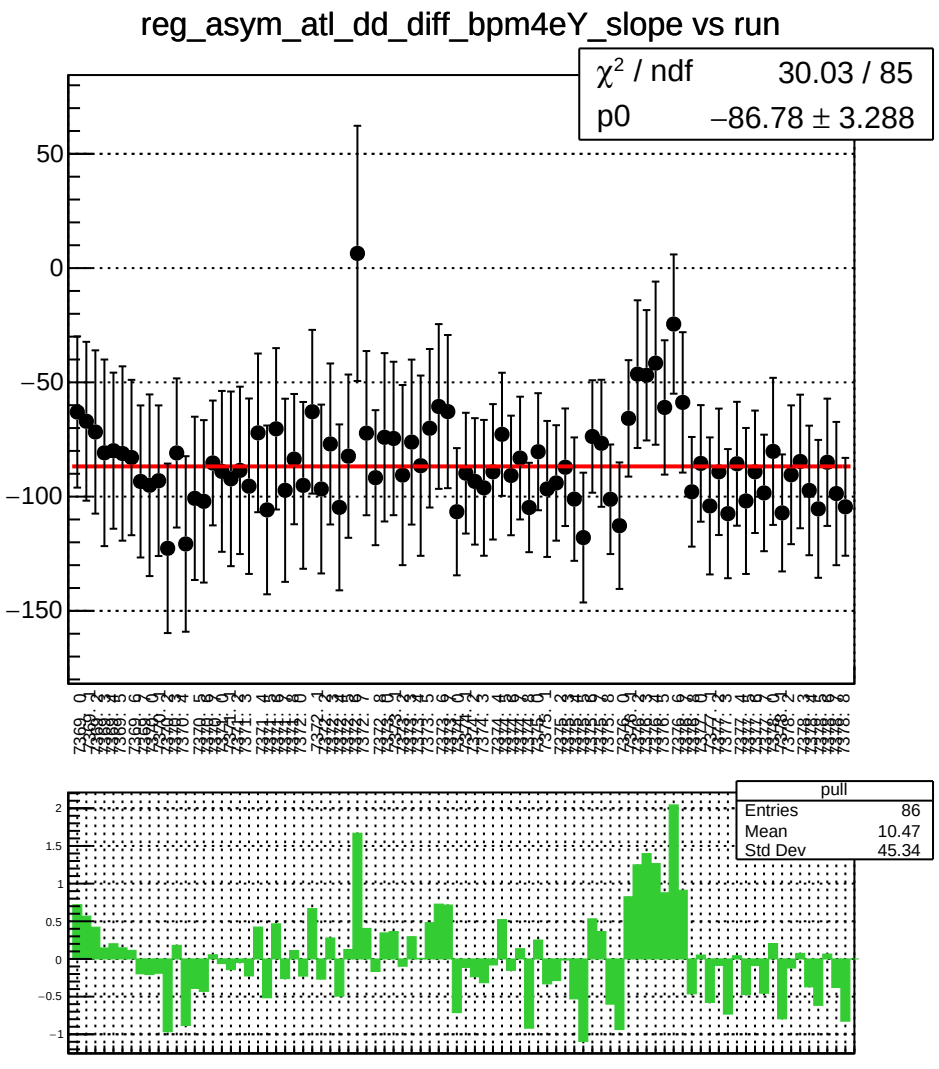

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 55.06 / 85
p0 139.4 ± 2.797
250
200
150
100
50
pull
Entries 86
Mean 93.79
Std Dev 7.134
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

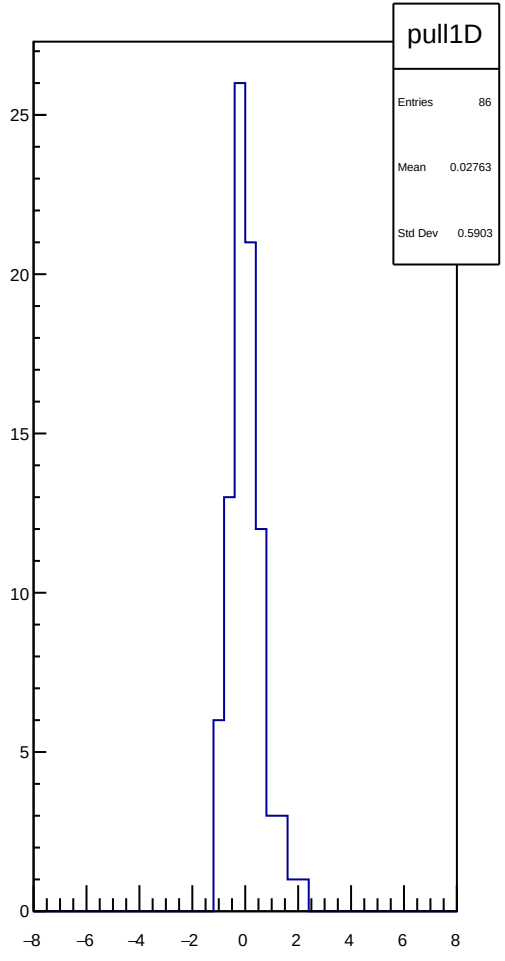

pull1D
Entries 86
Mean 0.05344
Std Dev 0.7984
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

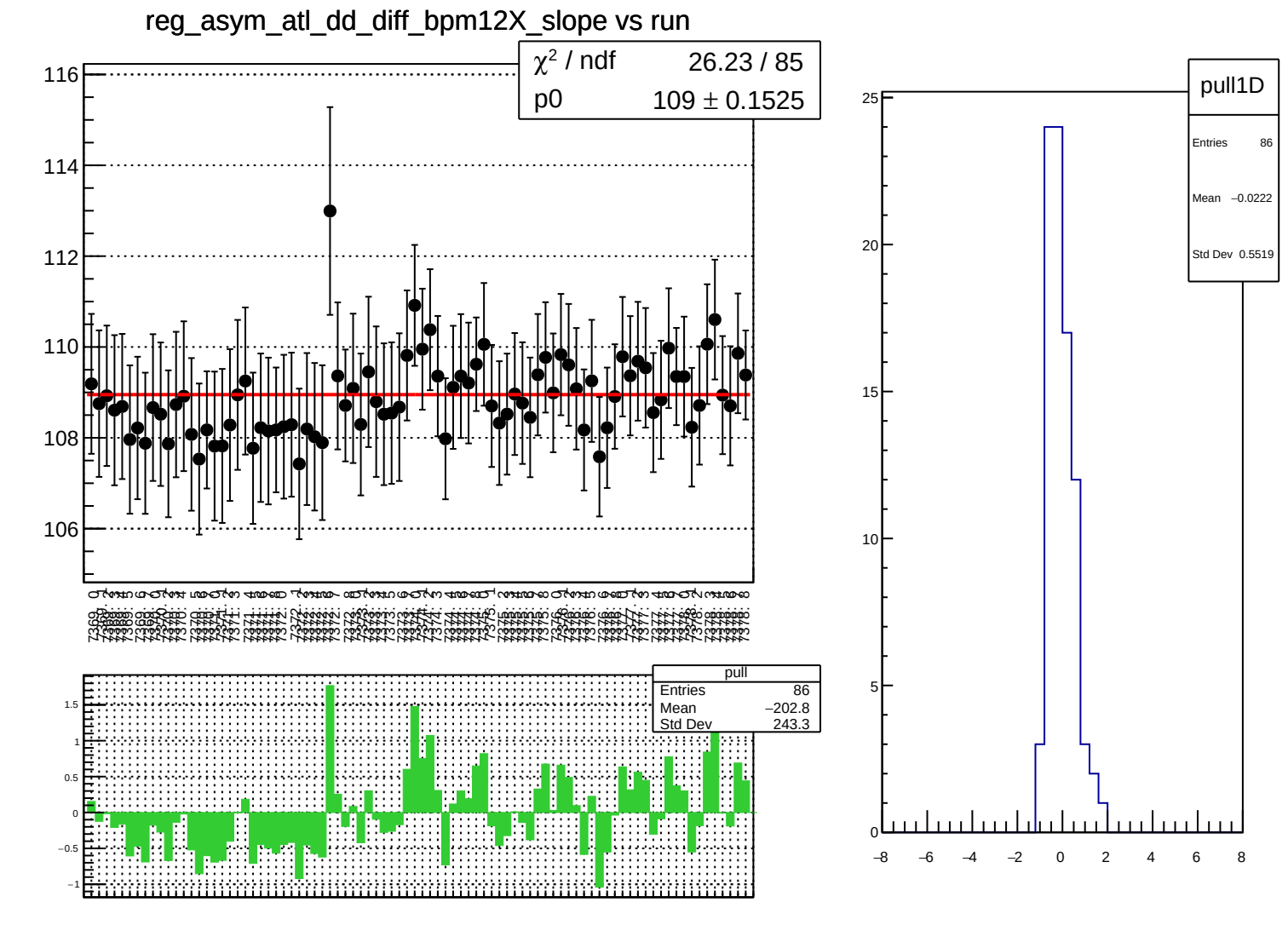

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.47 / 85
p0 21.53 ± 3.085
100
50
0
−50
−100
pull
Entries 86
Mean 7.666
Std Dev 58.65
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean −0.01417
Std Dev 0.5752
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

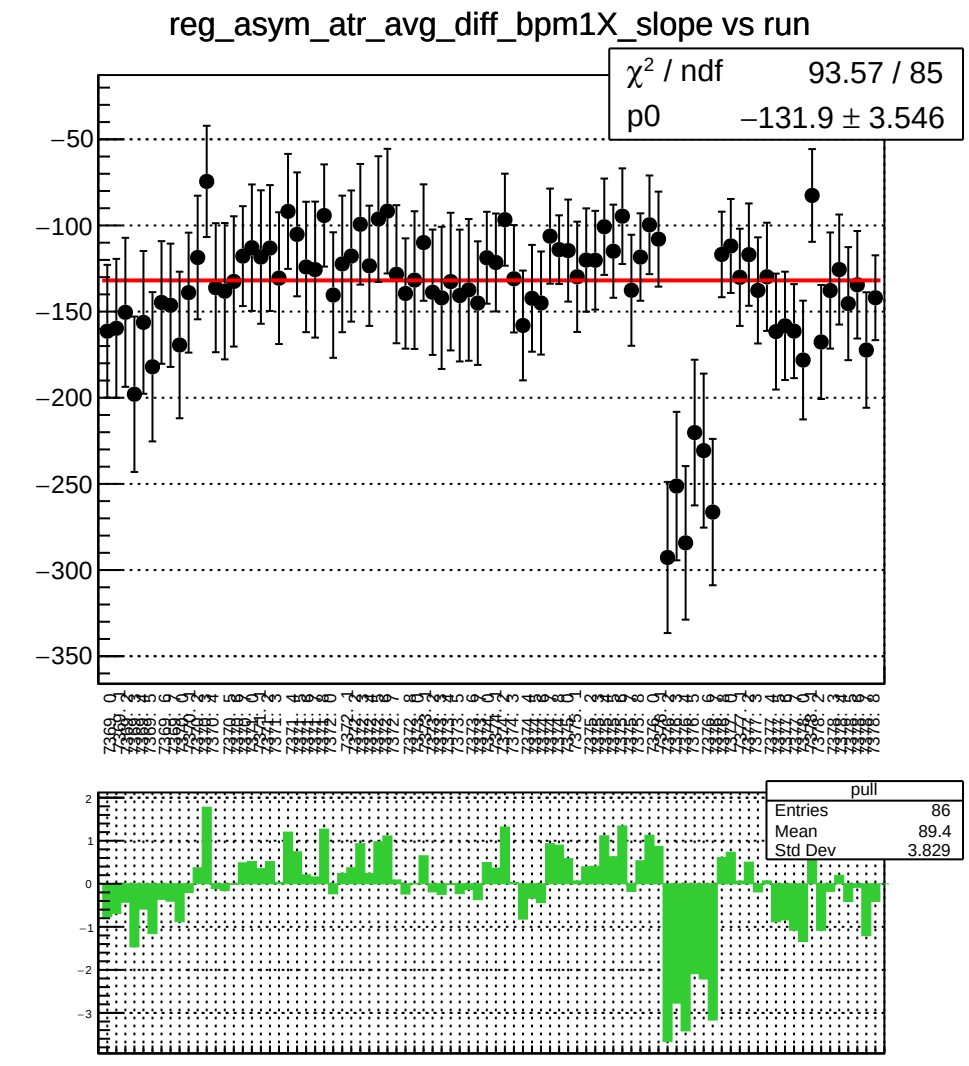

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.45 / 85
p0 −100 ± 2.906
0
−50
−100
−150
−200
pull
Entries 86
Mean 104.3
Std Dev 25.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

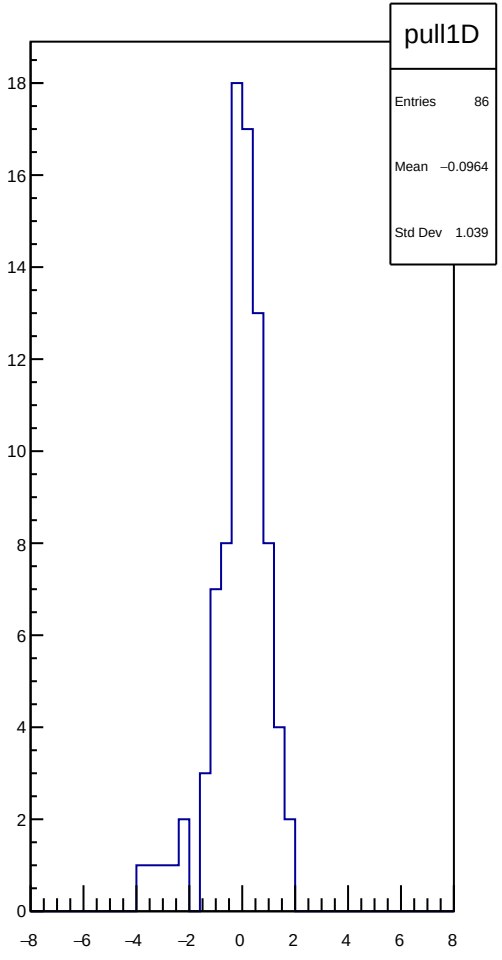

pull1D
Entries 86
Mean −0.04986
Std Dev 0.7941
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

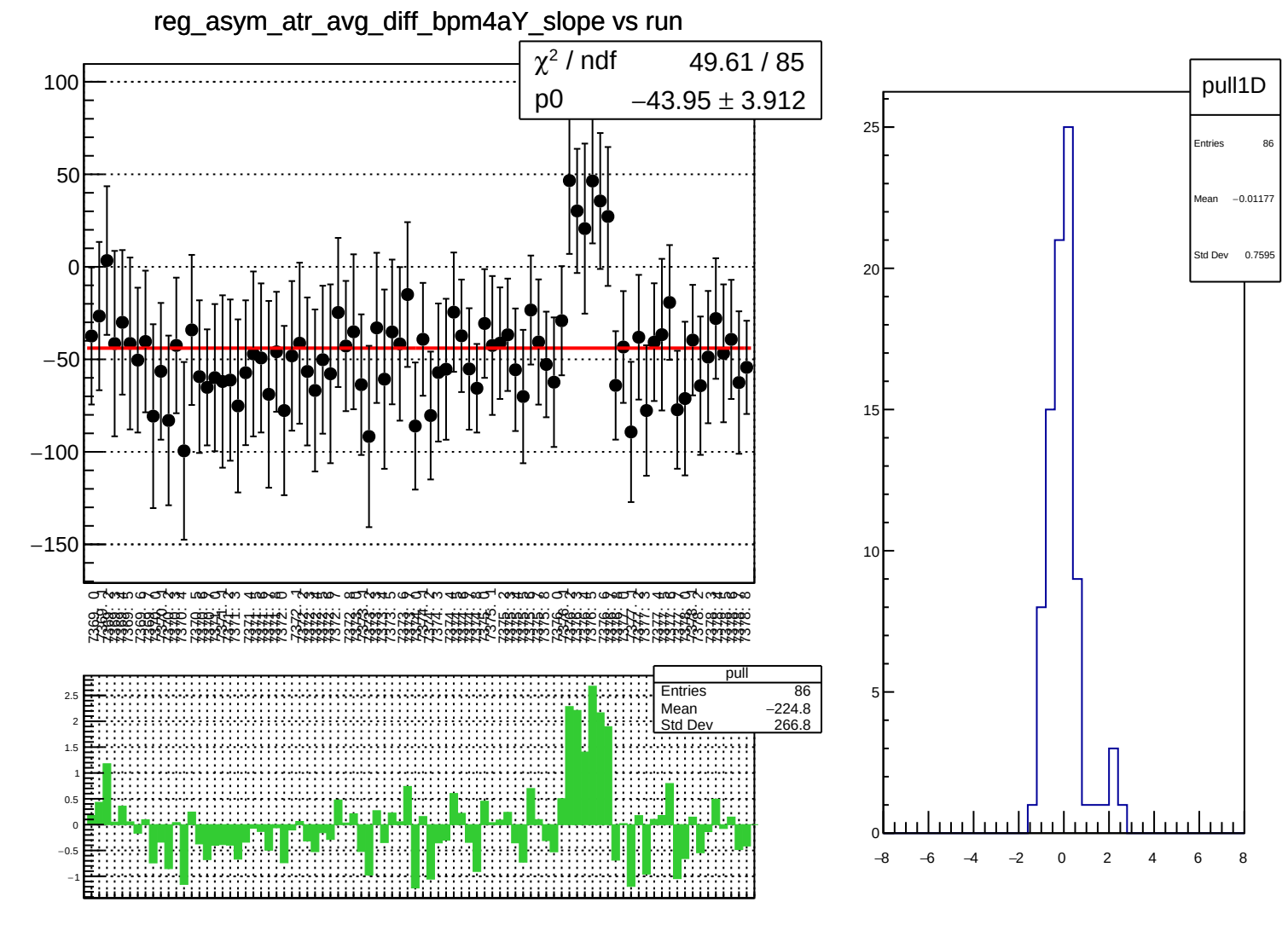

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.03 / 85
p0 −86.78 ± 3.288
50
0
−50
−100
−150
pull
Entries 86
Mean 10.47
Std Dev 45.34
2
1.5
1
0.5
0
−0.5
−1

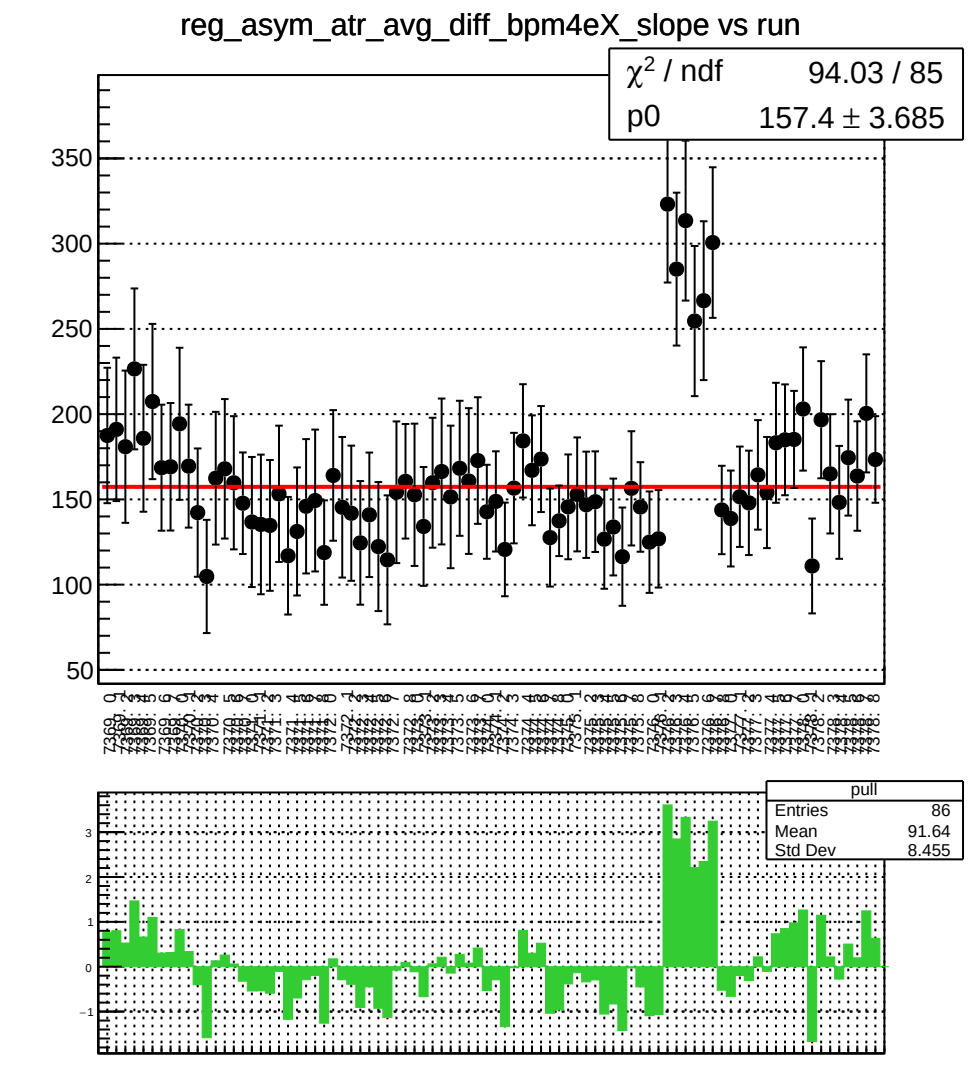

pull1D
Entries 86
Mean 0.02763
Std Dev 0.5903
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

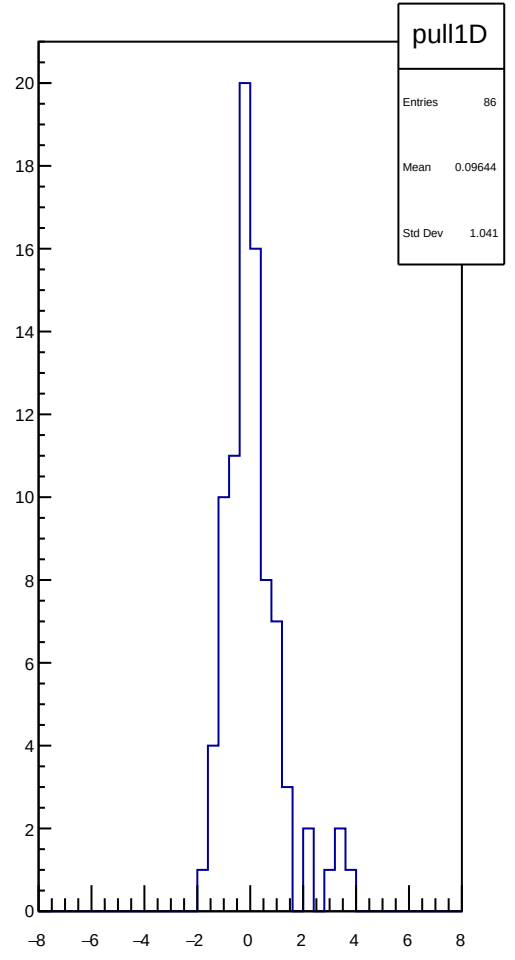

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 26.23 / 85
p0 109 ± 0.1525
pull
Entries 86
Mean −202.8
Std Dev 243.3
pull1D
Entries 86
Mean −0.0222
Std Dev 0.5519

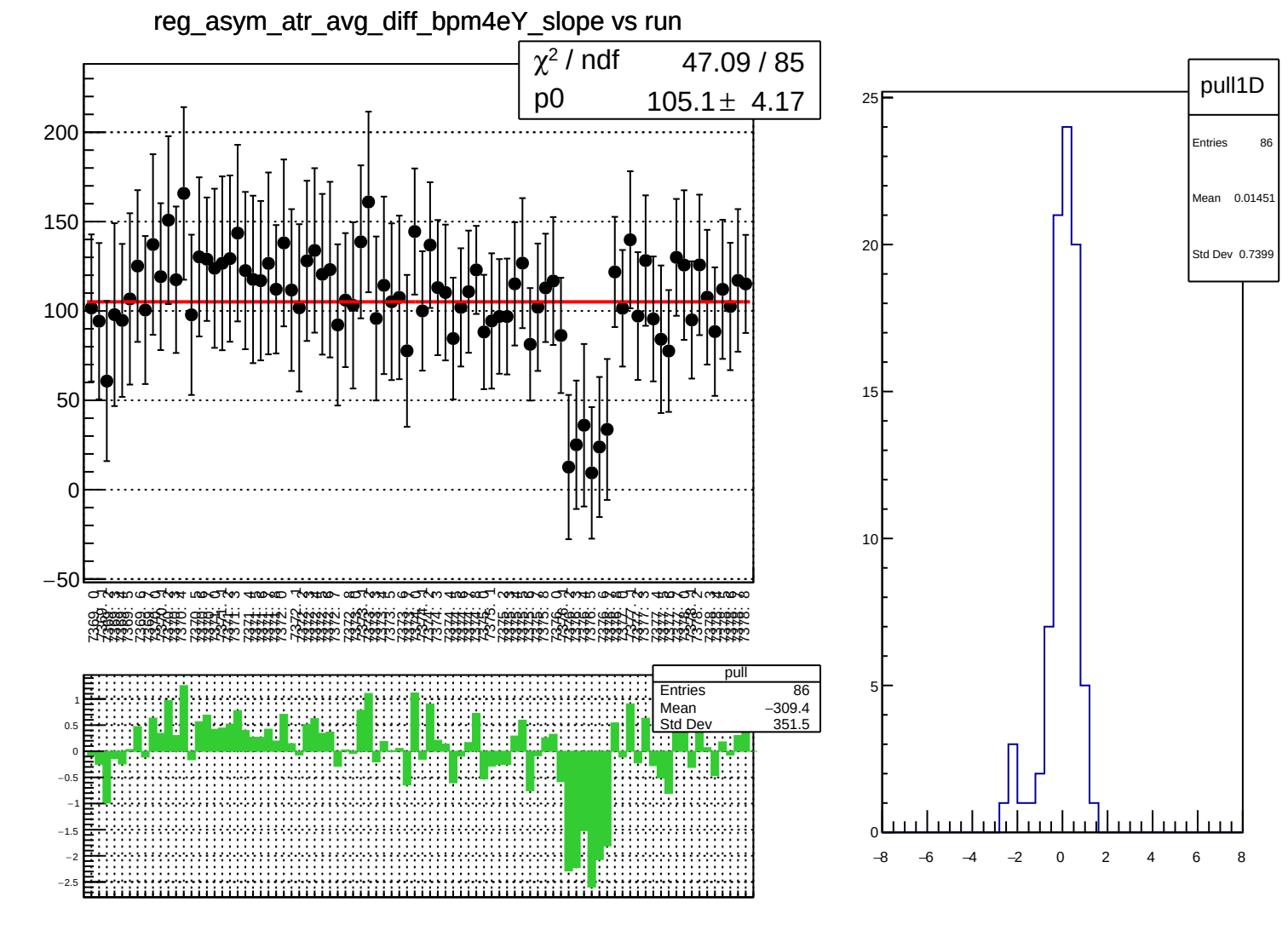

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 93.57 / 85
p0 −131.9 ± 3.546
pull
Entries 86
Mean 89.4
Std Dev 3.829

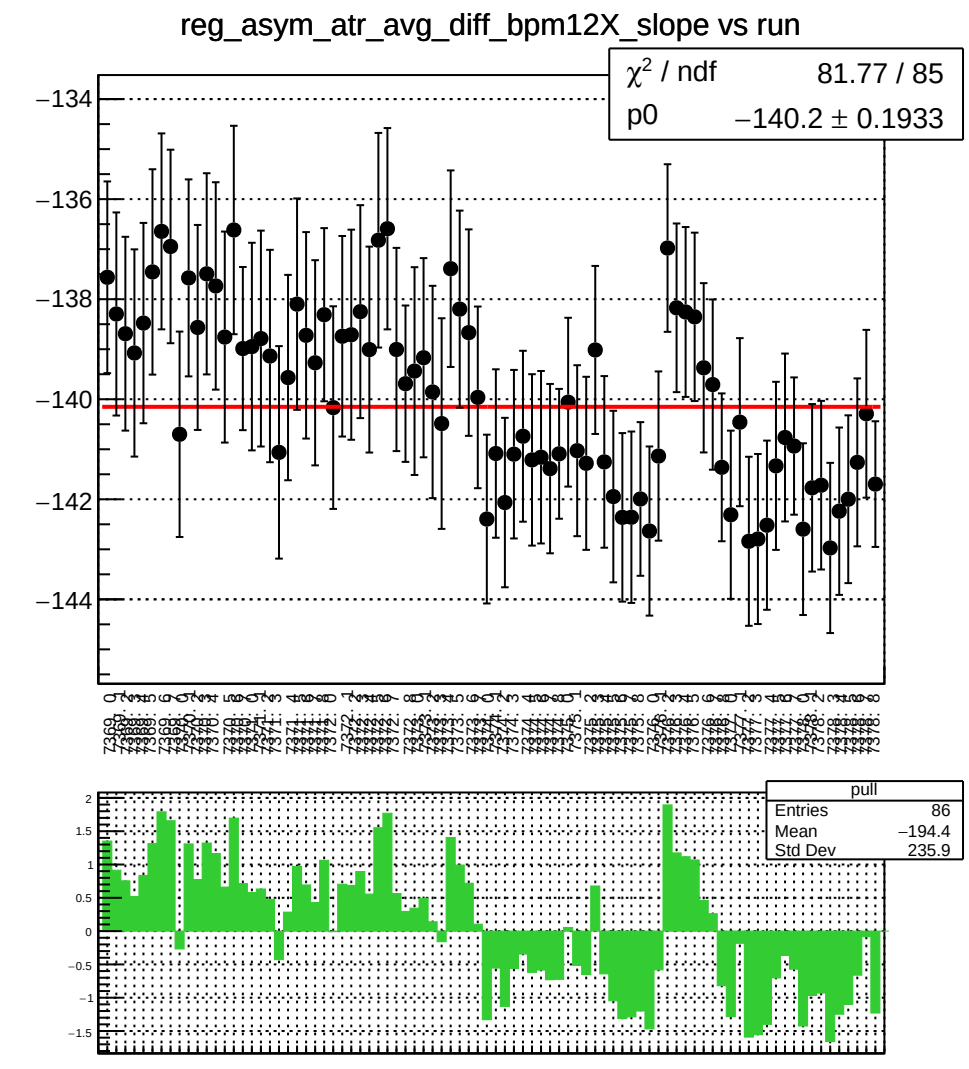

pull1D
Entries 86
Mean −0.0964
Std Dev 1.039

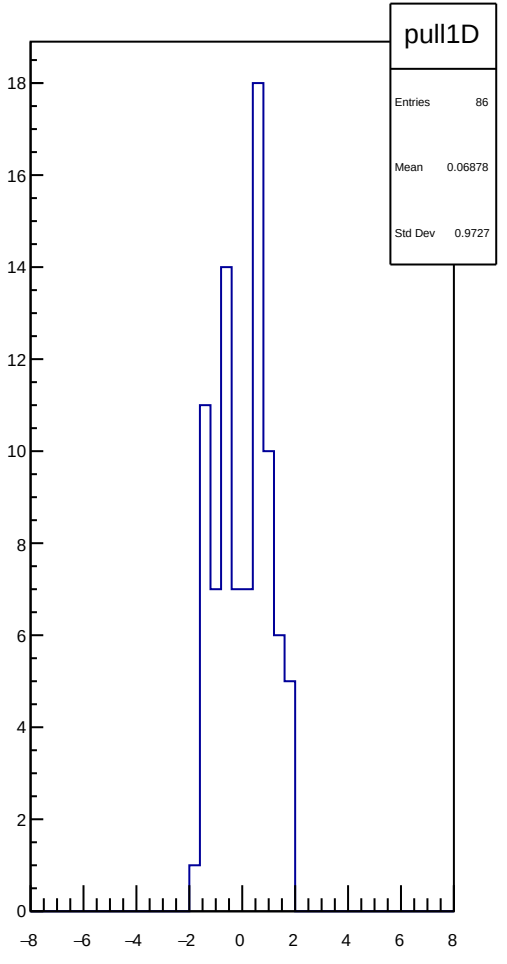

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.61 / 85
p0 −43.95 ± 3.912
pull
Entries 86
Mean −224.8
Std Dev 266.8
pull1D
Entries 86
Mean −0.01177
Std Dev 0.7595

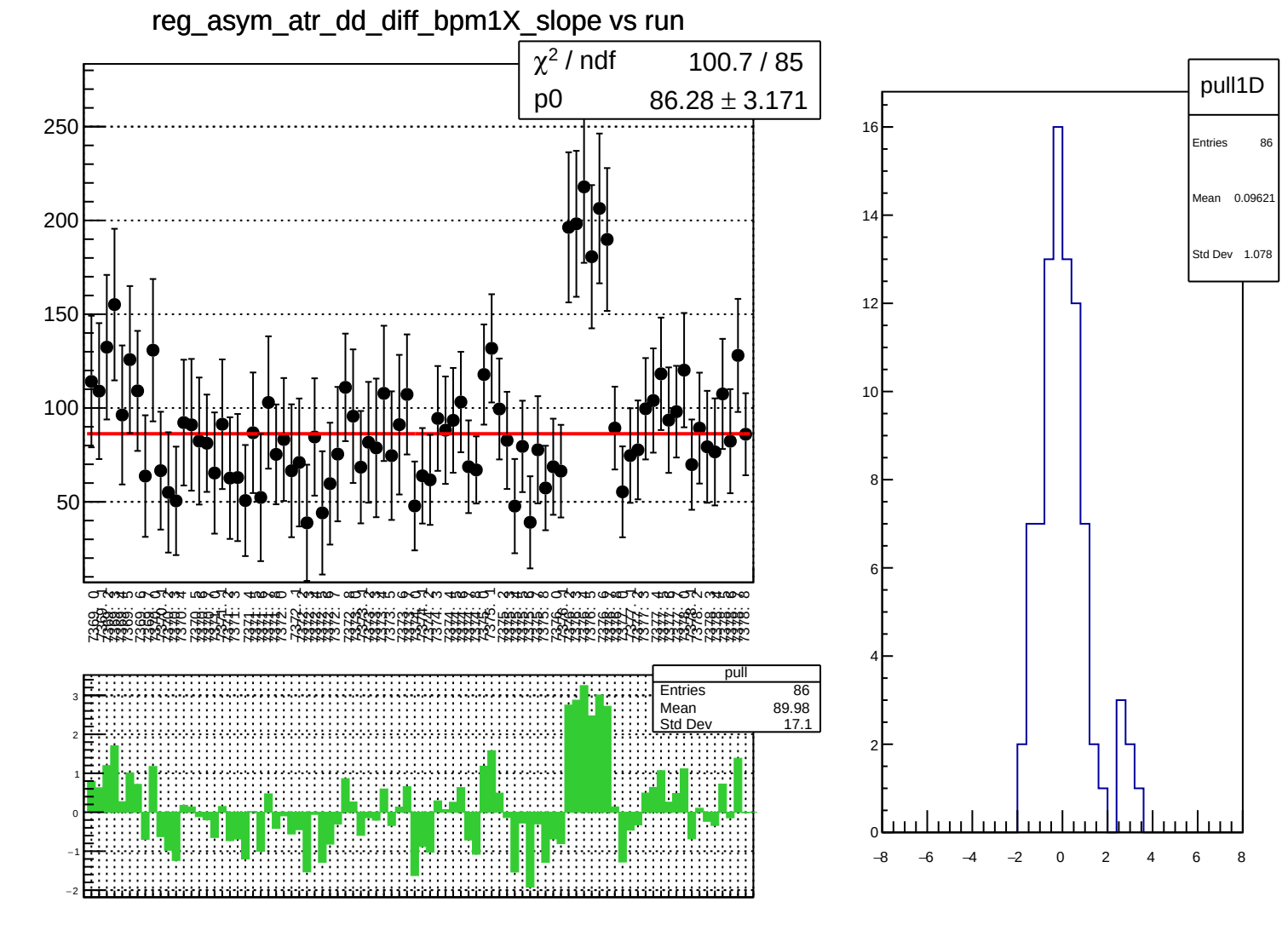

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 94.03 / 85
p0 157.4 ± 3.685
pull
Entries 86
Mean 91.64
Std Dev 8.455

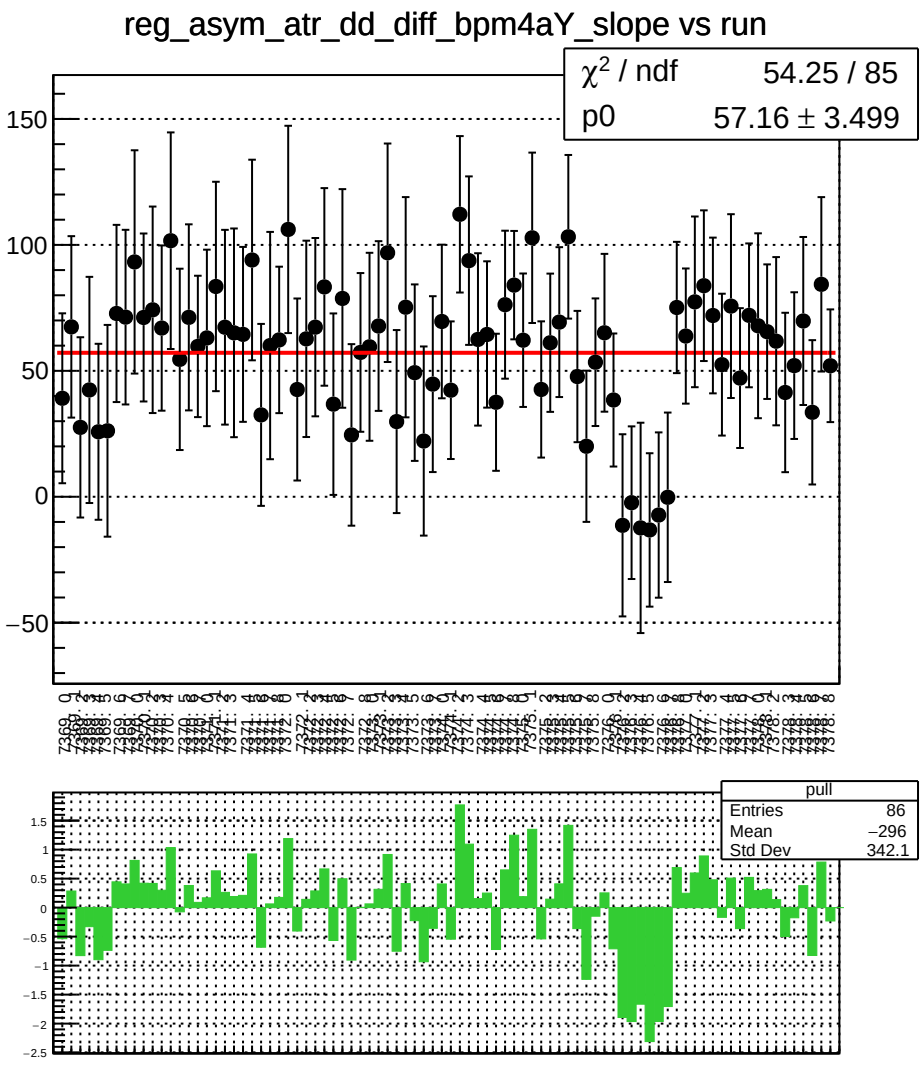

pull1D
Entries 86
Mean 0.09644
Std Dev 1.041

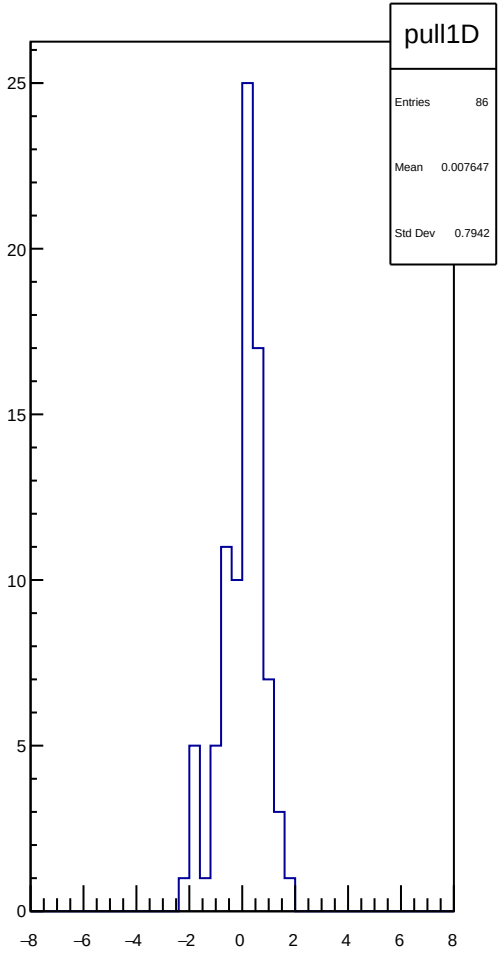

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.09 / 85
p0 105.1 ± 4.17
pull
Entries 86
Mean −309.4
Std Dev 351.5
pull1D
Entries 86
Mean 0.01451
Std Dev 0.7399

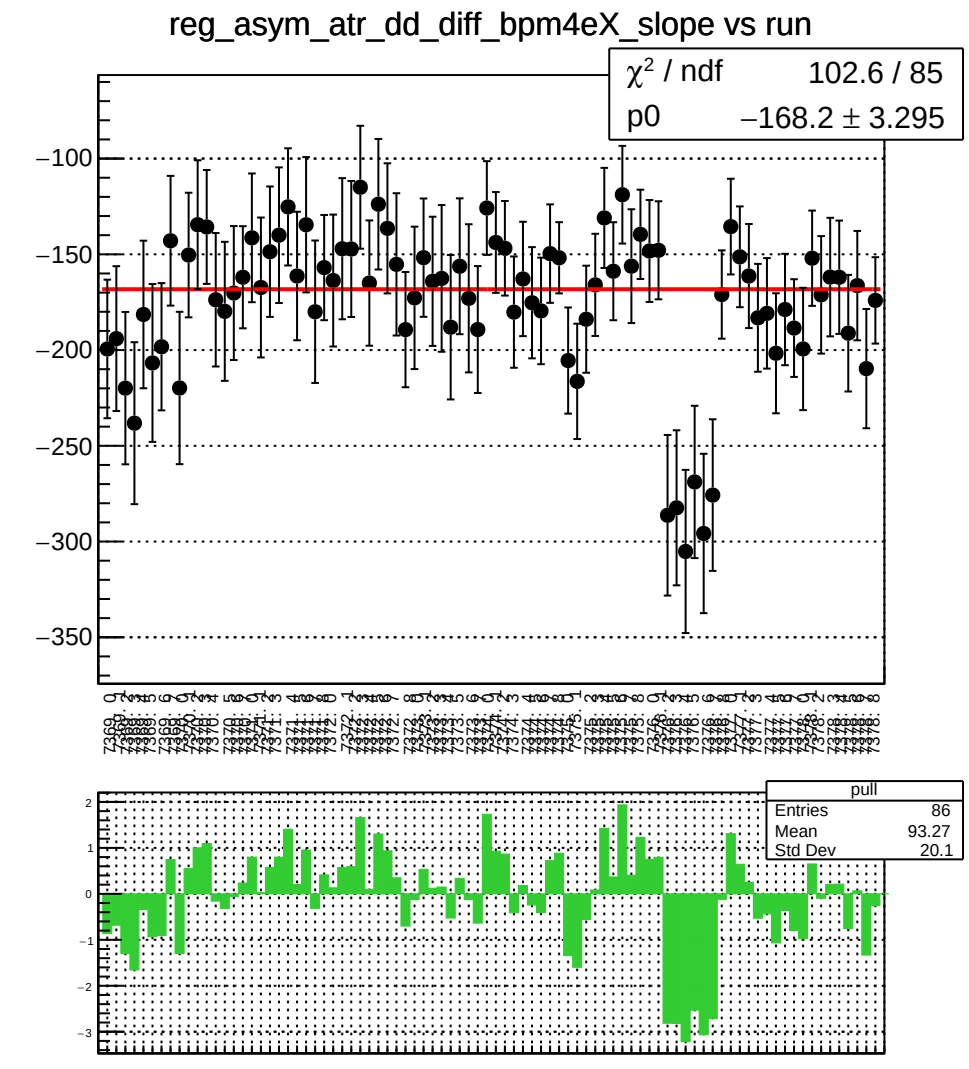

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 81.77 / 85
p0 −140.2 ± 0.1933
−134
−136
−138
−140
−142
−144
pull
Entries 86
Mean −194.4
Std Dev 235.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

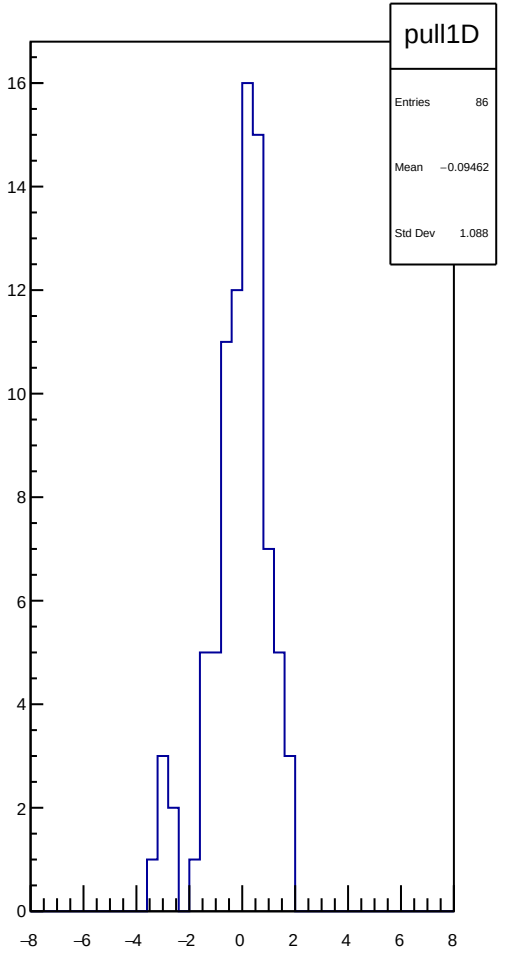

pull1D
Entries 86
Mean 0.06878
Std Dev 0.9727
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

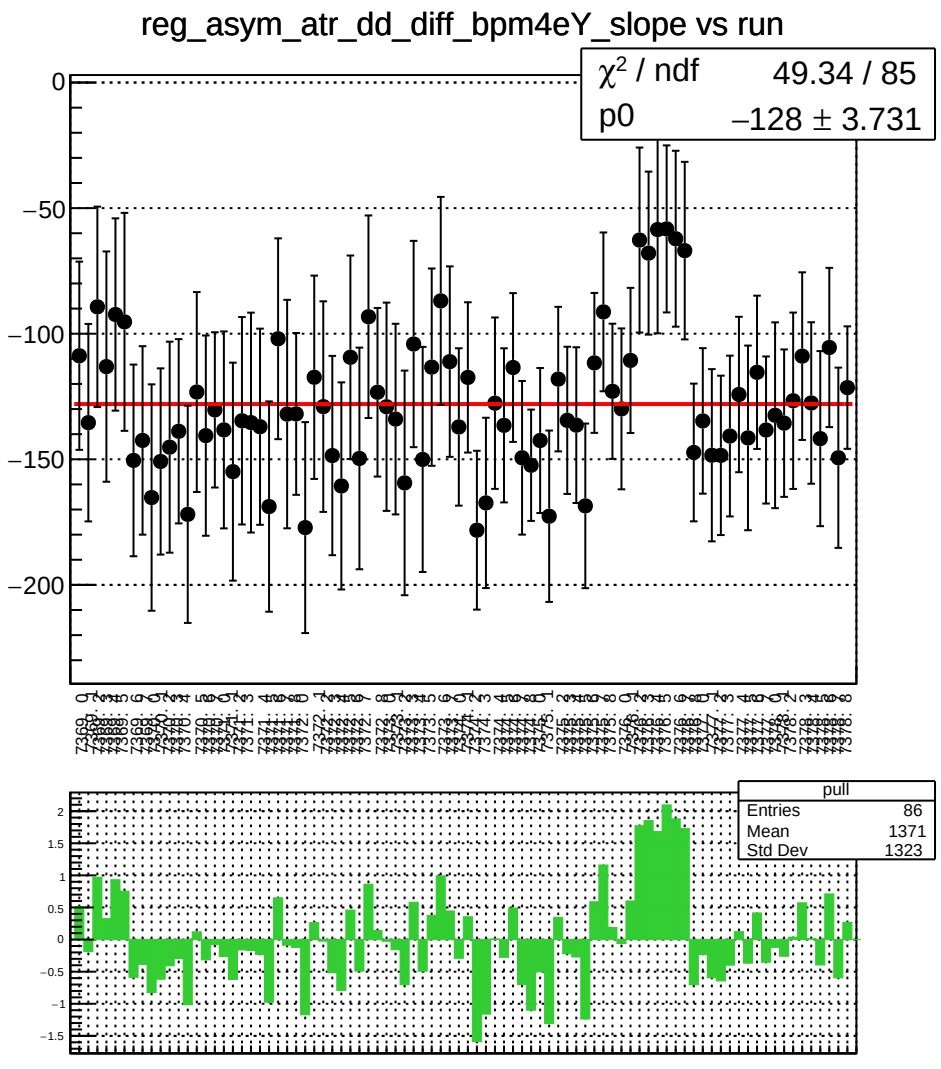

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 100.7 / 85
p0 86.28 ± 3.171
pull
Entries 86
Mean 89.98
Std Dev 17.1
pull1D
Entries 86
Mean 0.09621
Std Dev 1.078

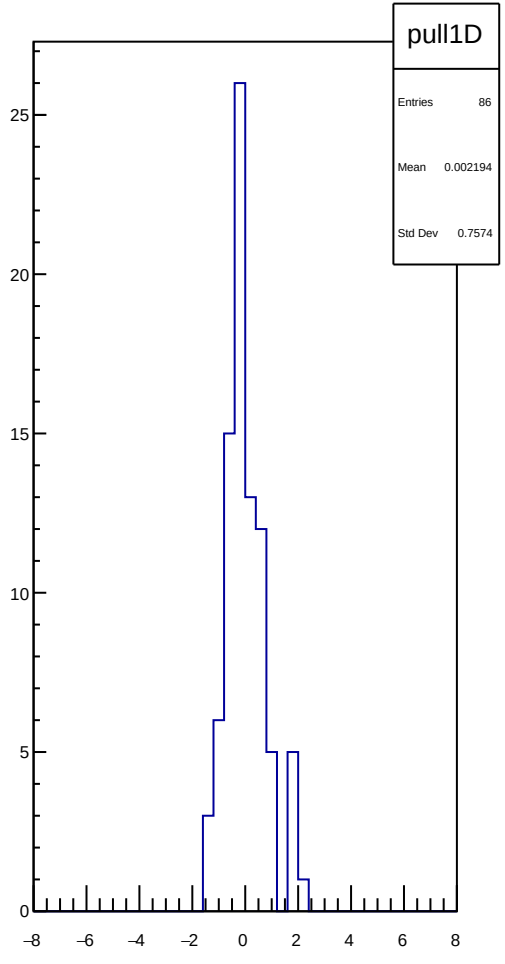

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.25 / 85
p0 57.16 ± 3.499
150
100
50
0
−50
pull
Entries 86
Mean −296
Std Dev 342.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

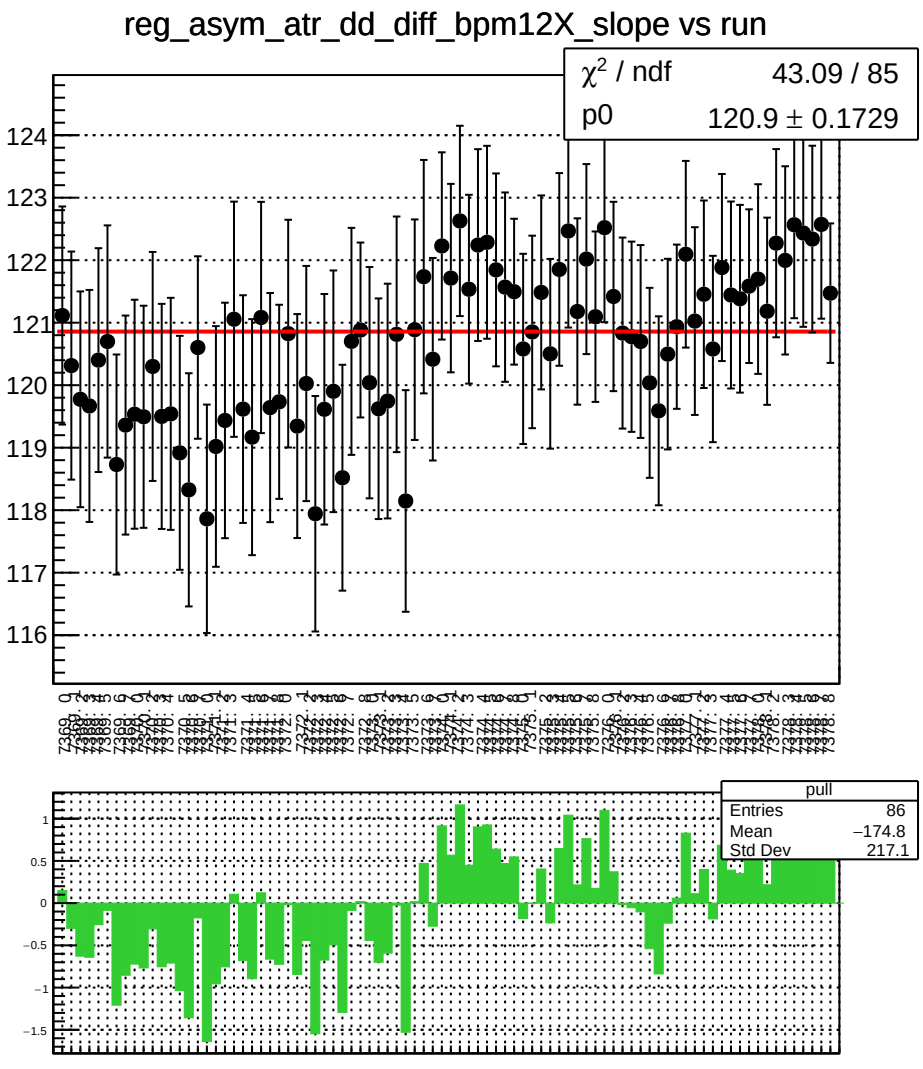

pull1D
Entries 86
Mean 0.007647
Std Dev 0.7942
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

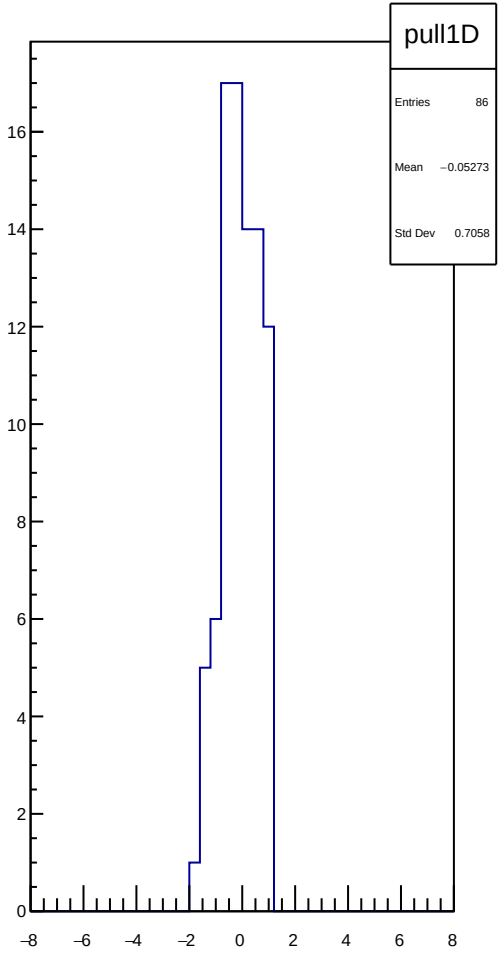

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 102.6 / 85
p0 −168.2 ± 3.295
−100
−150
−200
−250
−300
−350
pull
Entries 86
Mean 93.27
Std Dev 20.1
2
1
0
−1
−2
−3

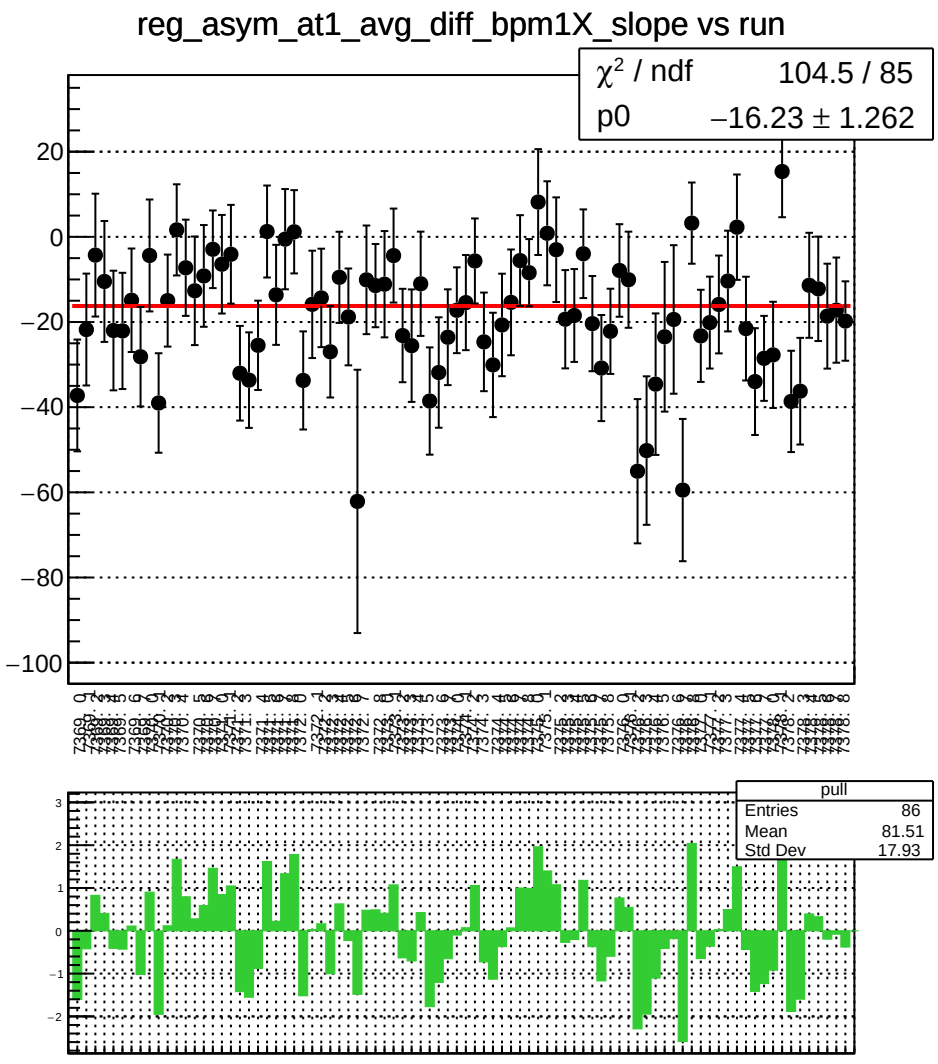

pull1D
Entries 86
Mean −0.09462
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

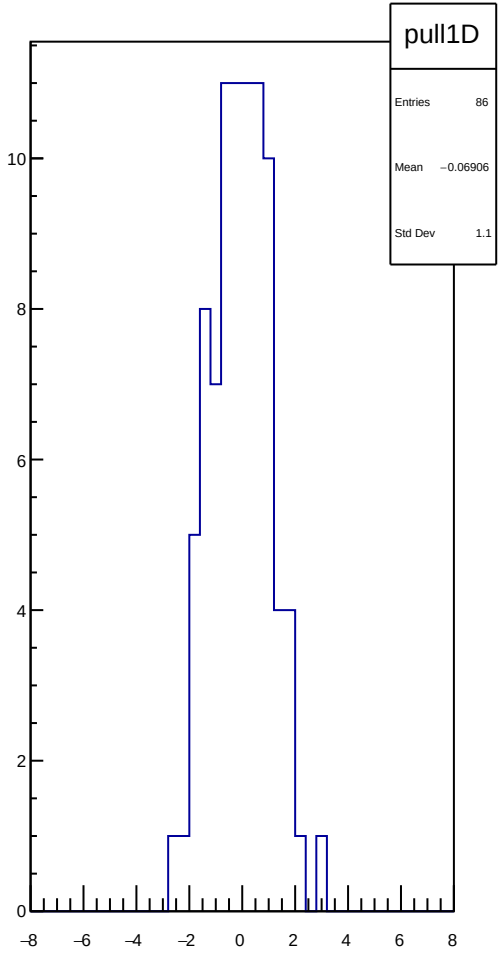

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 49.34 / 85
p0 −128 ± 3.731
0
−50
−100
−150
−200
pull
Entries 86
Mean 1371
Std Dev 1323
2
1.5
1
0.5
0
−0.5
−1
−1.5

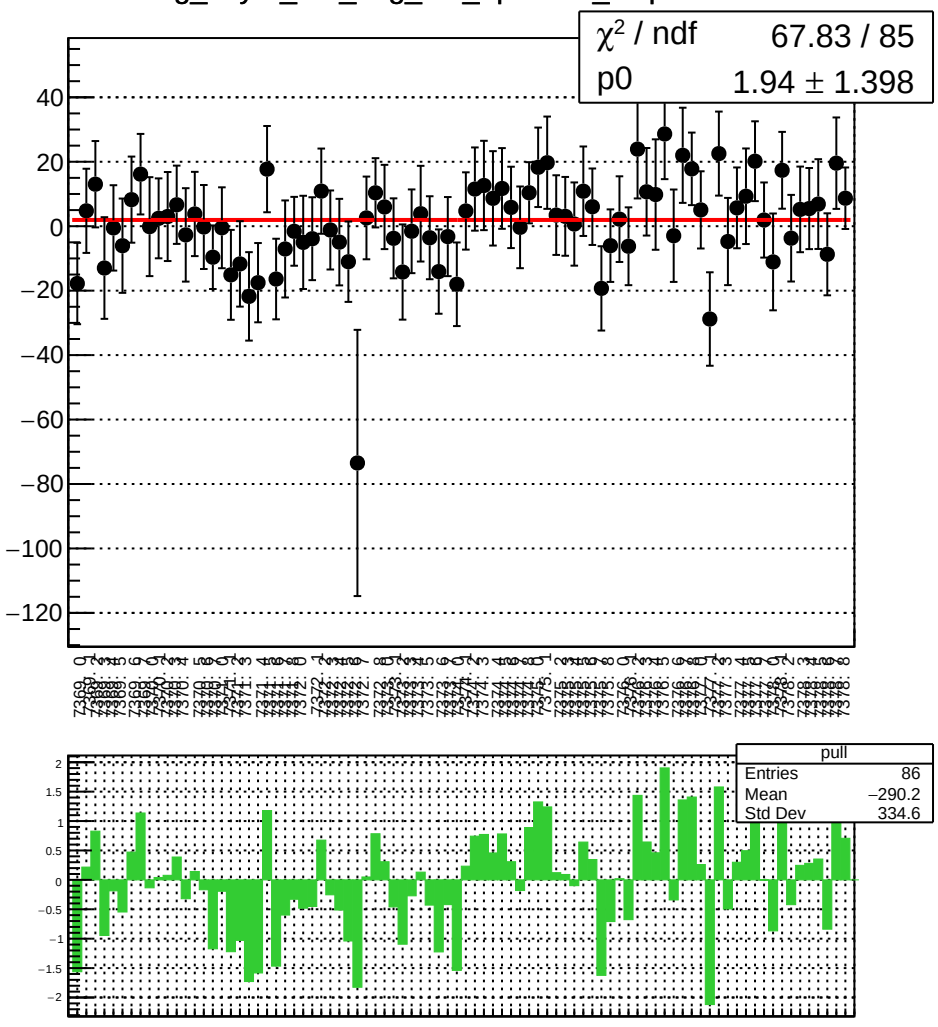

pull1D
Entries 86
Mean 0.002194
Std Dev 0.7574
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

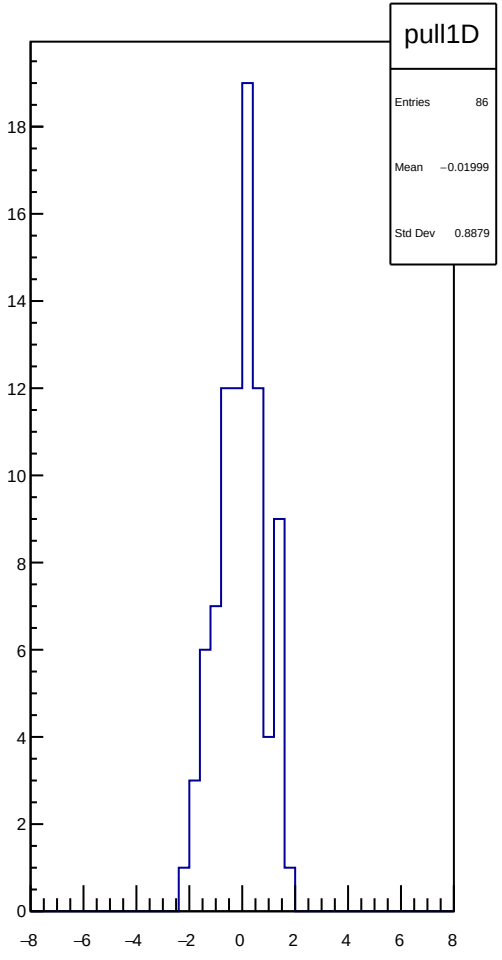

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ^2 / ndf 43.09 / 85
p0 120.9 ± 0.1729
pull
Entries 86
Mean −174.8
Std Dev 217.1

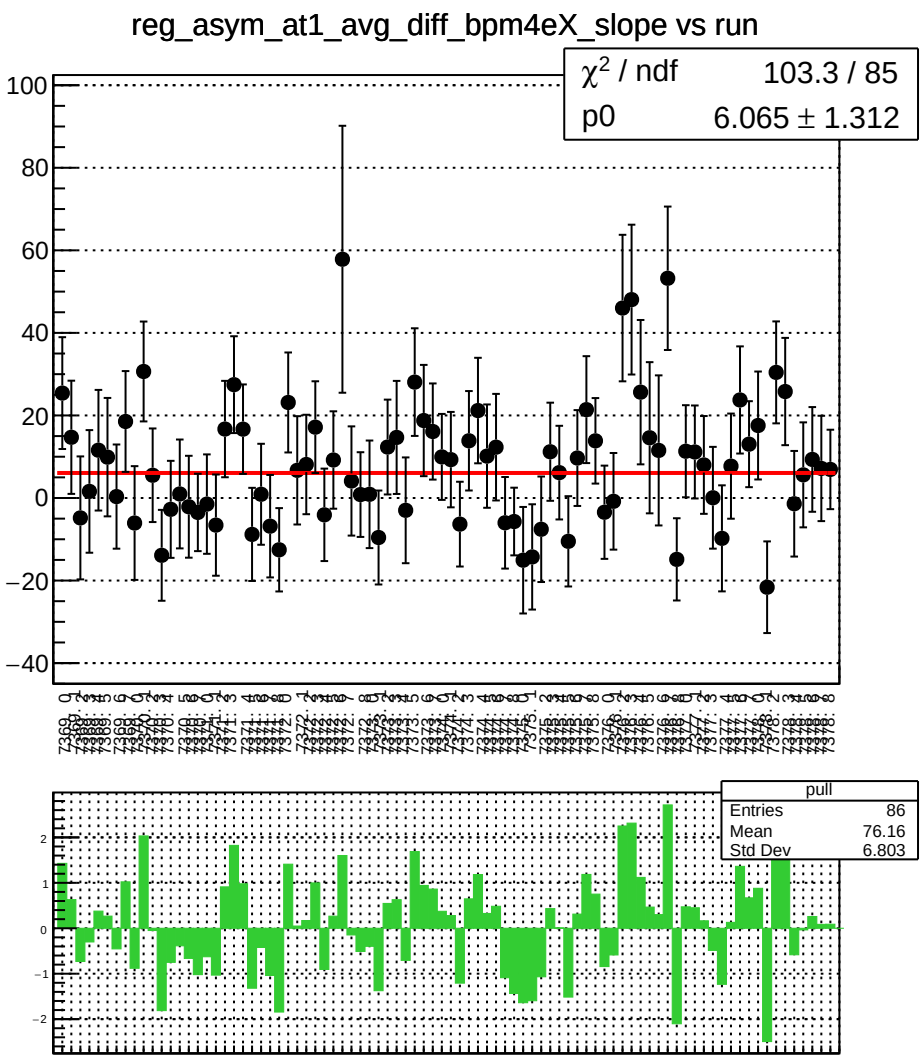

pull1D
Entries 86
Mean −0.05273
Std Dev 0.7058

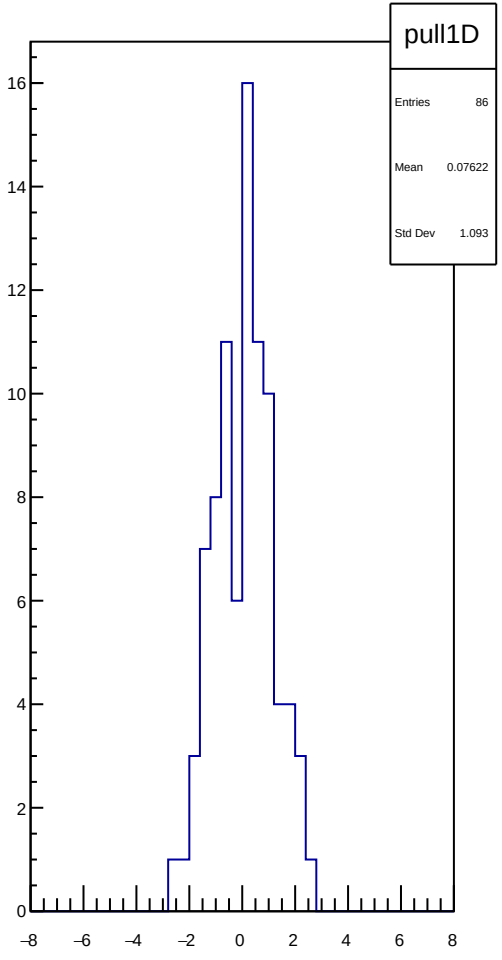

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 104.5 / 85
p0 −16.23 ± 1.262
pull
Entries 86
Mean 81.51
Std Dev 17.93

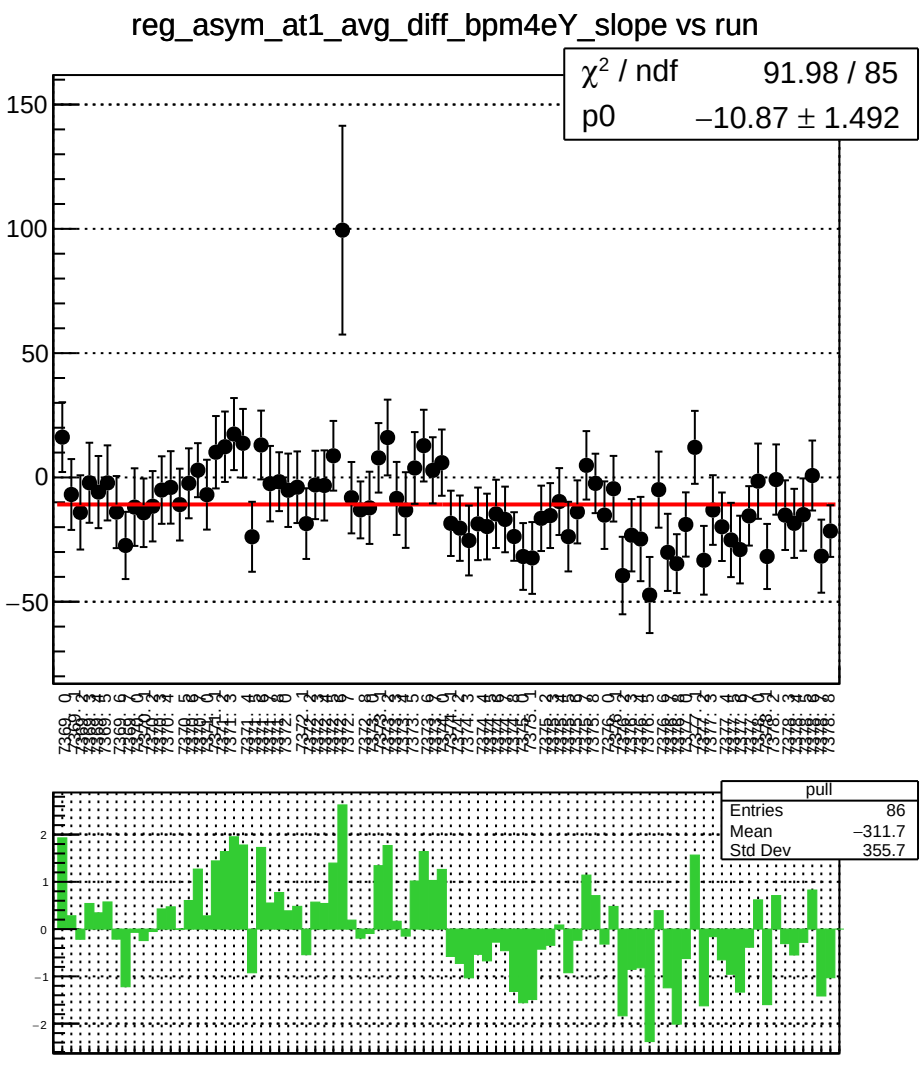

pull1D
Entries 86
Mean −0.06906
Std Dev 1.1

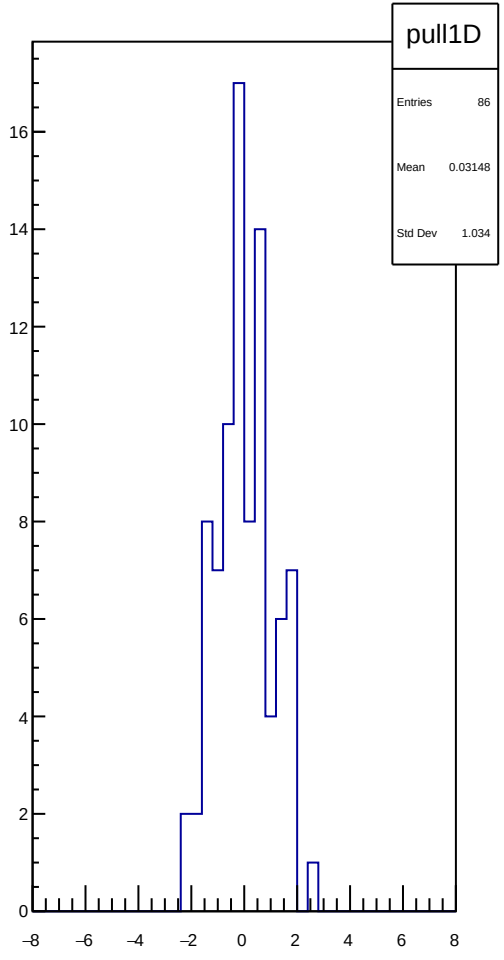

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 67.83 / 85
p0 1.94 ± 1.398
pull
Entries 86
Mean −290.2
Std Dev 334.6

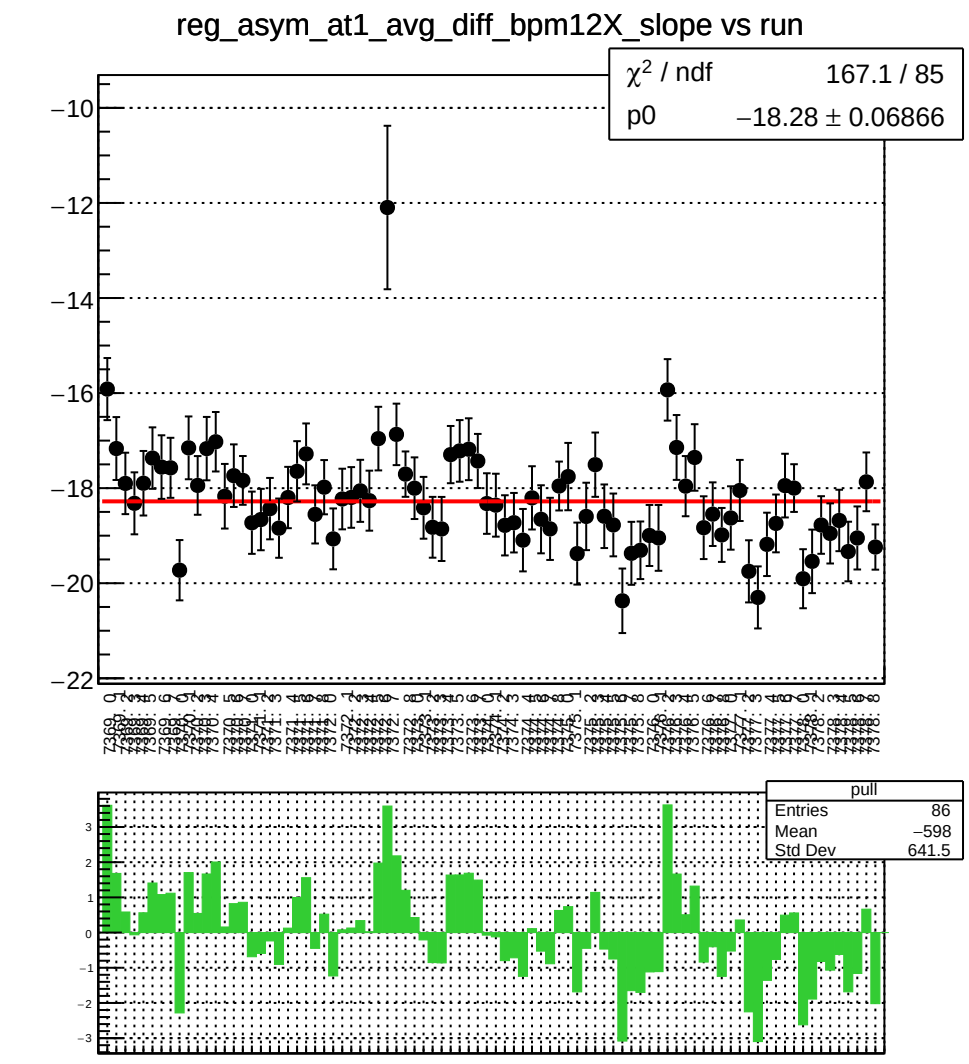

pull1D
Entries 86
Mean −0.01999
Std Dev 0.8879

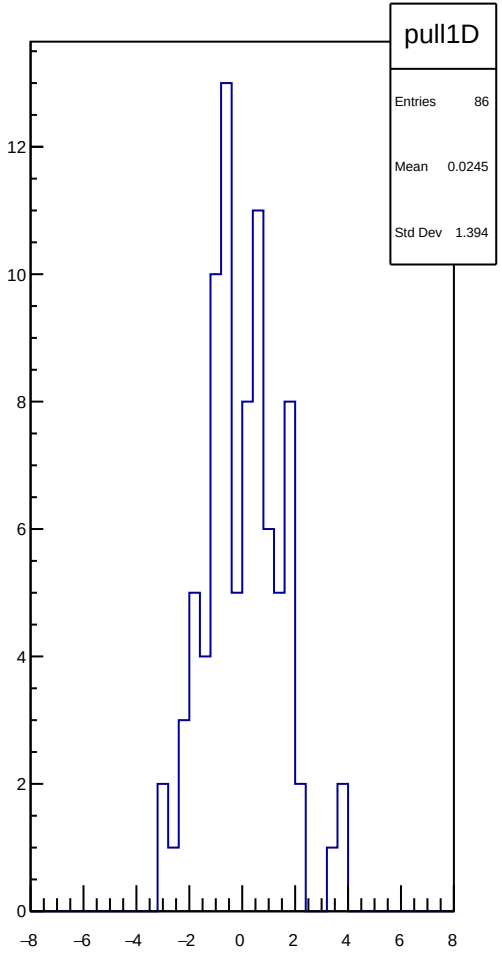

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 103.3 / 85
p0 6.065 ± 1.312
pull
Entries 86
Mean 76.16
Std Dev 6.803

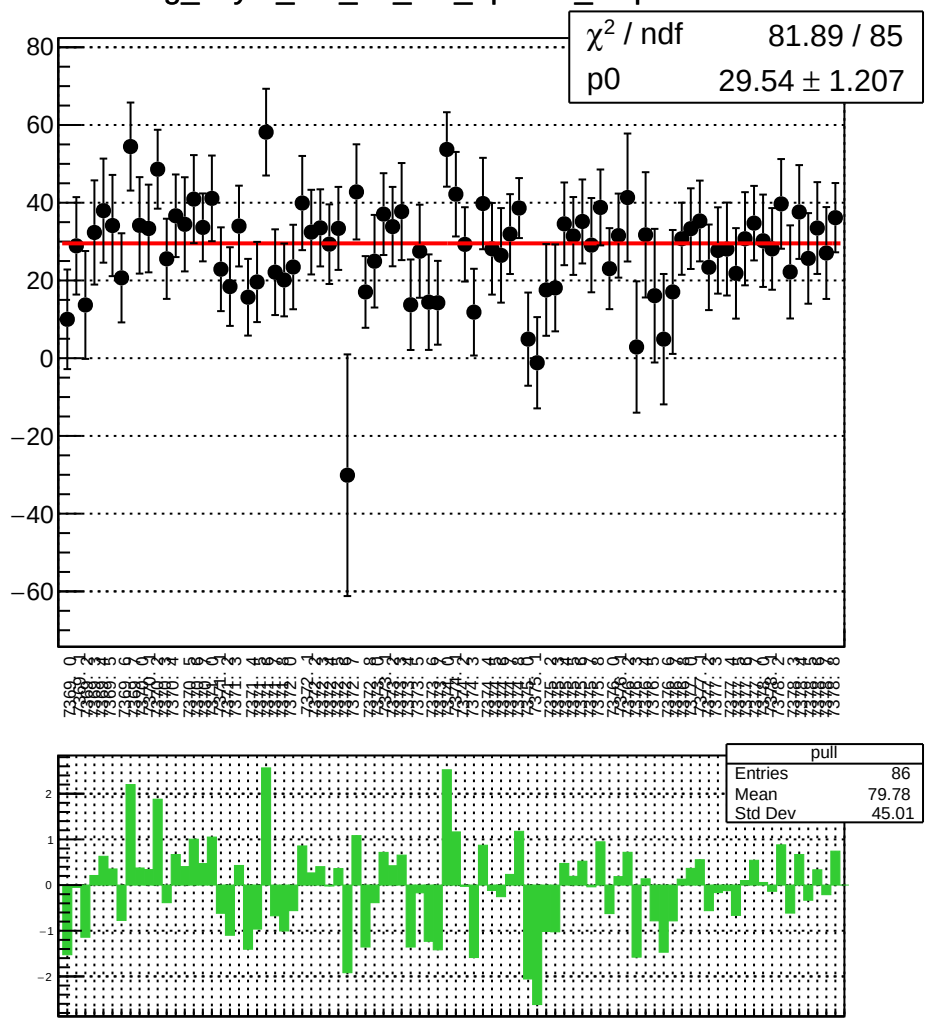

pull1D
Entries 86
Mean 0.07622
Std Dev 1.093

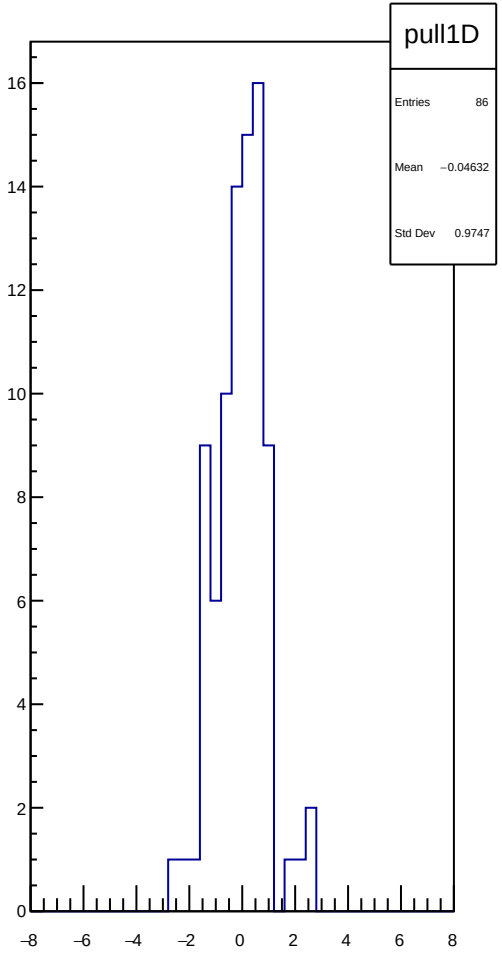

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.98 / 85
p0 −10.87 ± 1.492
150
100
50
0
−50
pull
Entries 86
Mean −311.7
Std Dev 355.7
2
1
0
−1
−2

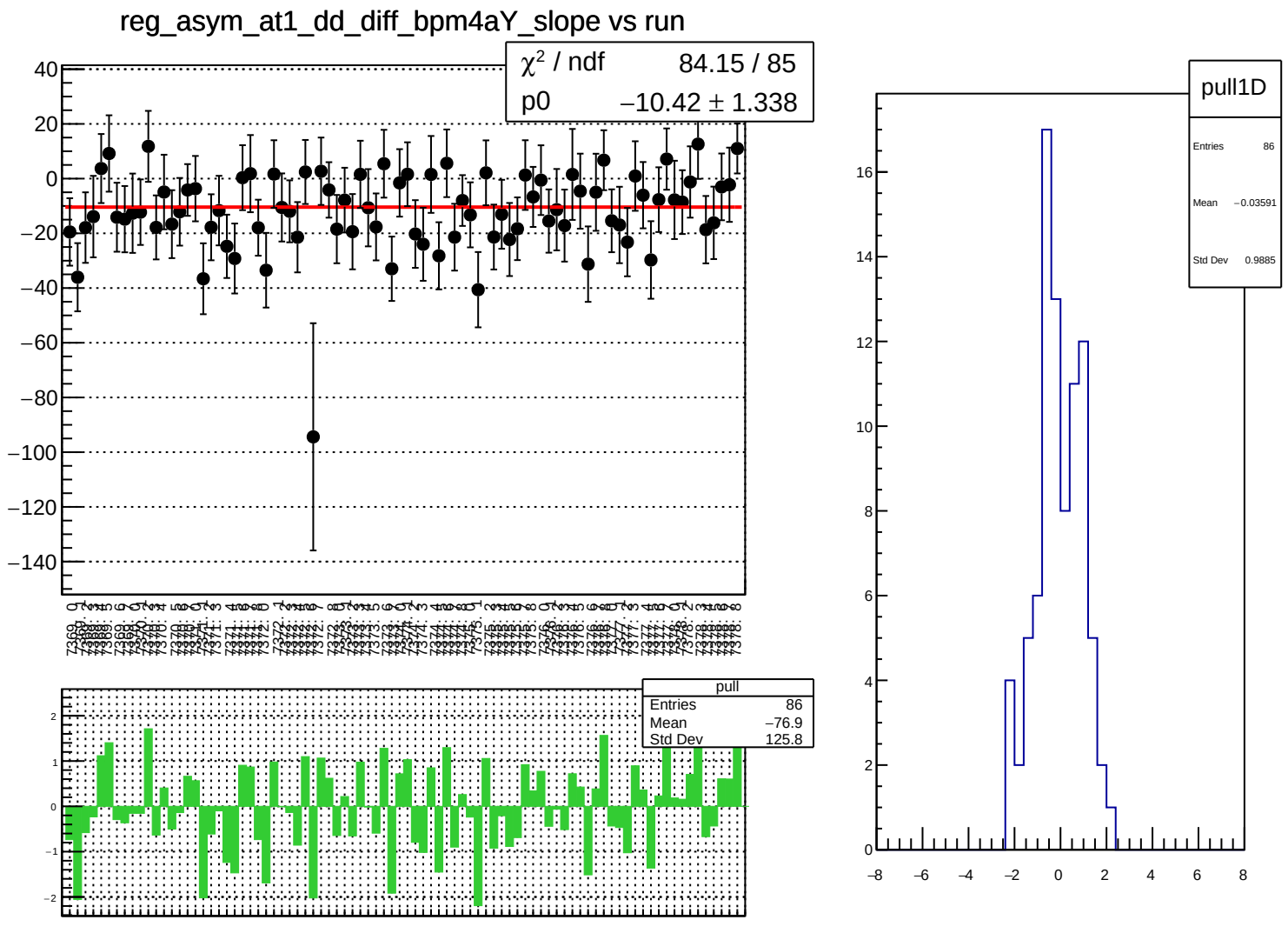

pull1D
Entries 86
Mean 0.03148
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

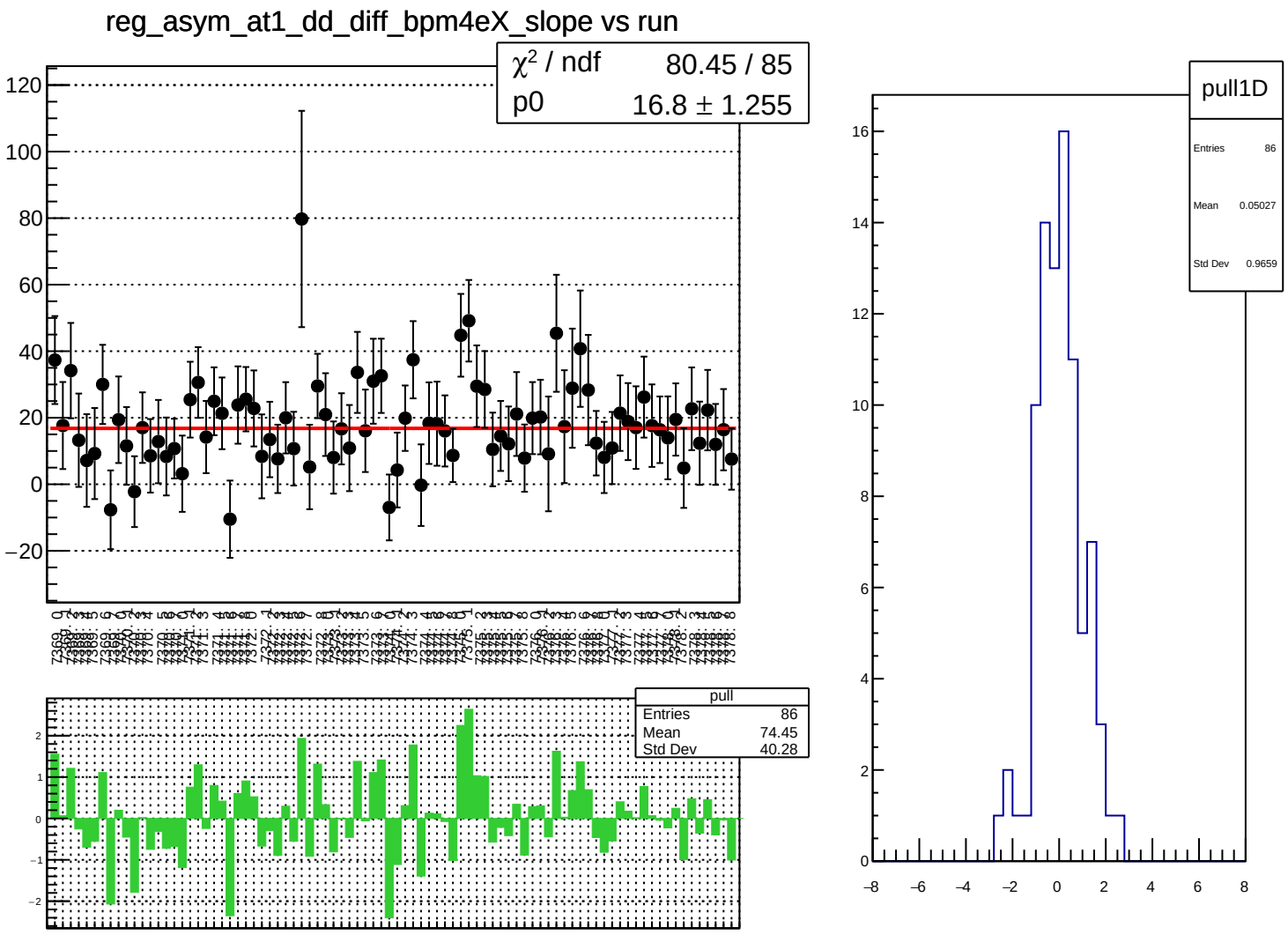

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 167.1 / 85
p0 −18.28 ± 0.06866
pull
Entries 86
Mean −598
Std Dev 641.5

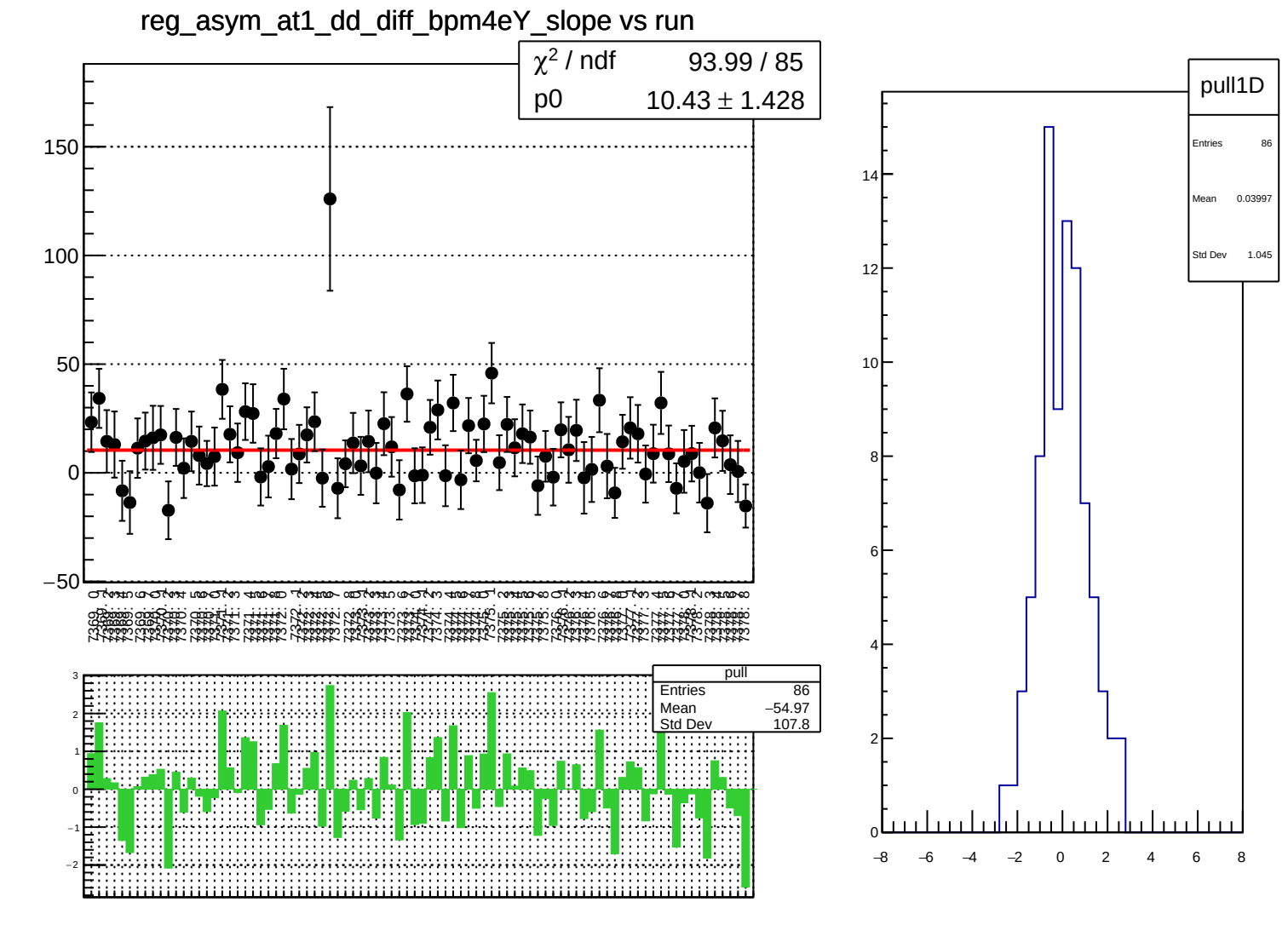

pull1D
Entries 86
Mean 0.0245
Std Dev 1.394

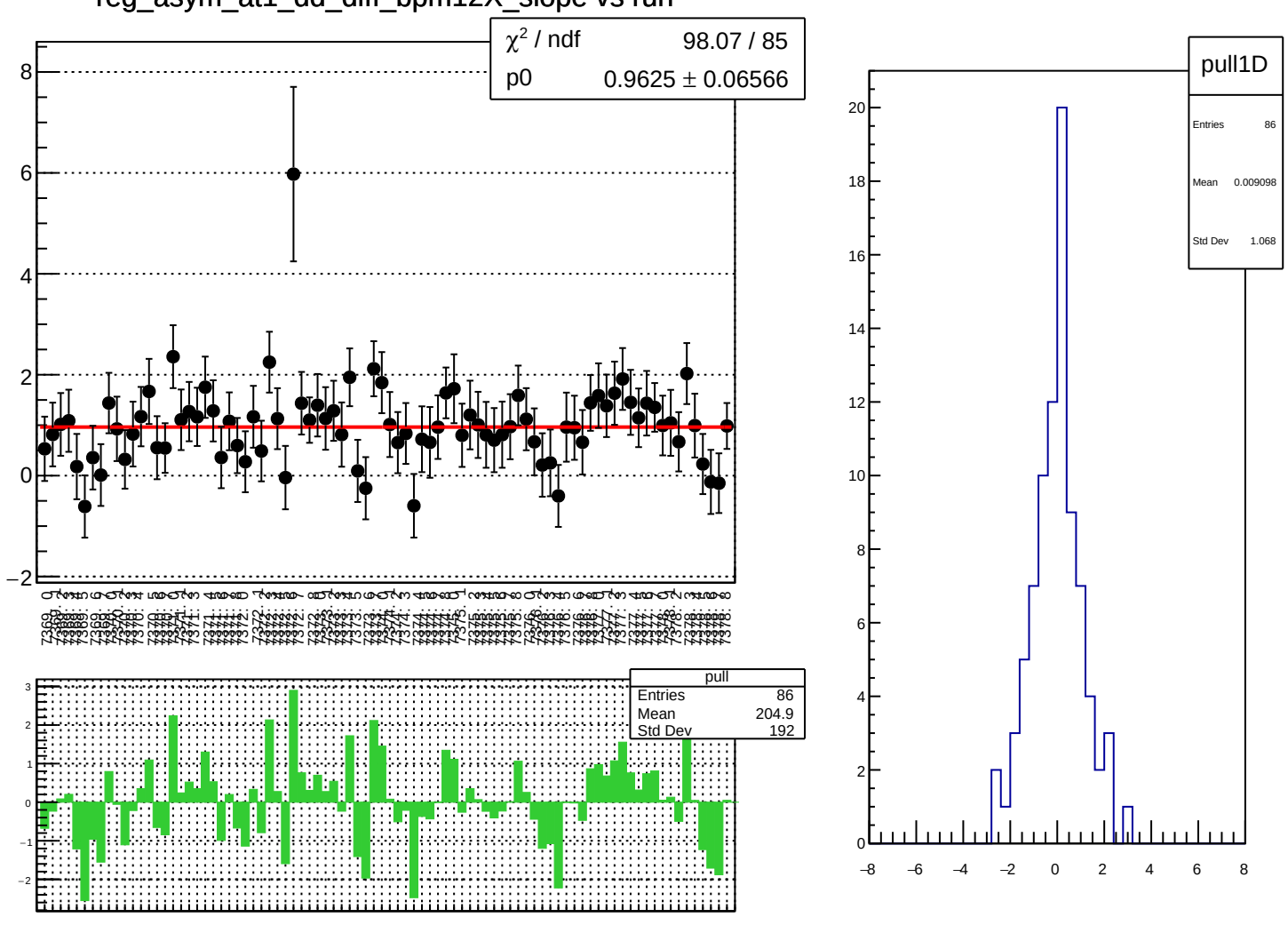

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ^2 / ndf 81.89 / 85
p0 29.54 ± 1.207
pull
Entries 86
Mean 79.78
Std Dev 45.01

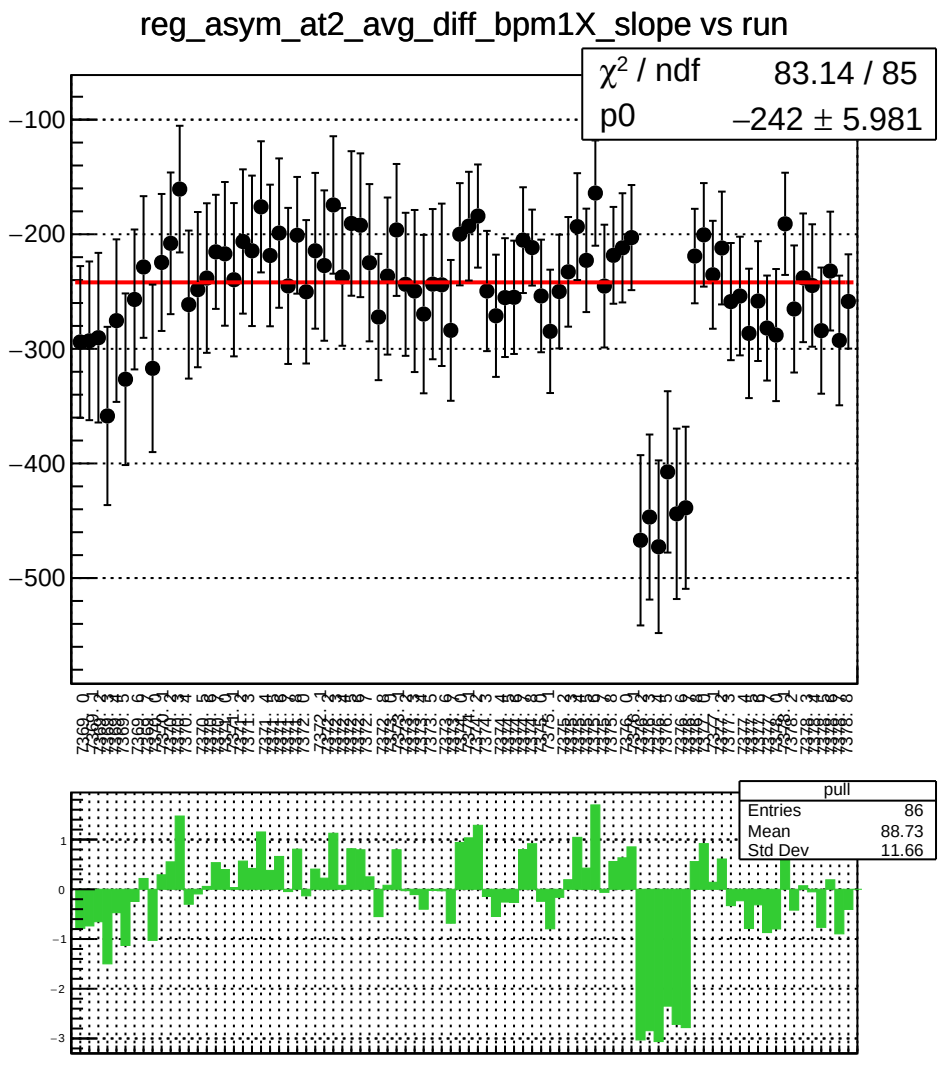

pull1D
Entries 86
Mean −0.04632
Std Dev 0.9747

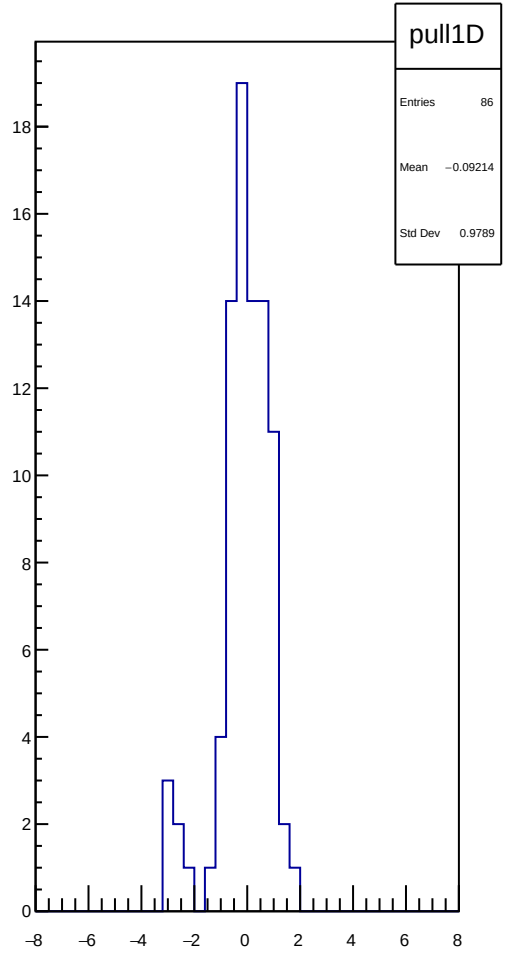

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.15 / 85
p0 −10.42 ± 1.338
pull
Entries 86
Mean −76.9
Std Dev 125.8
pull1D
Entries 86
Mean −0.03591
Std Dev 0.9885

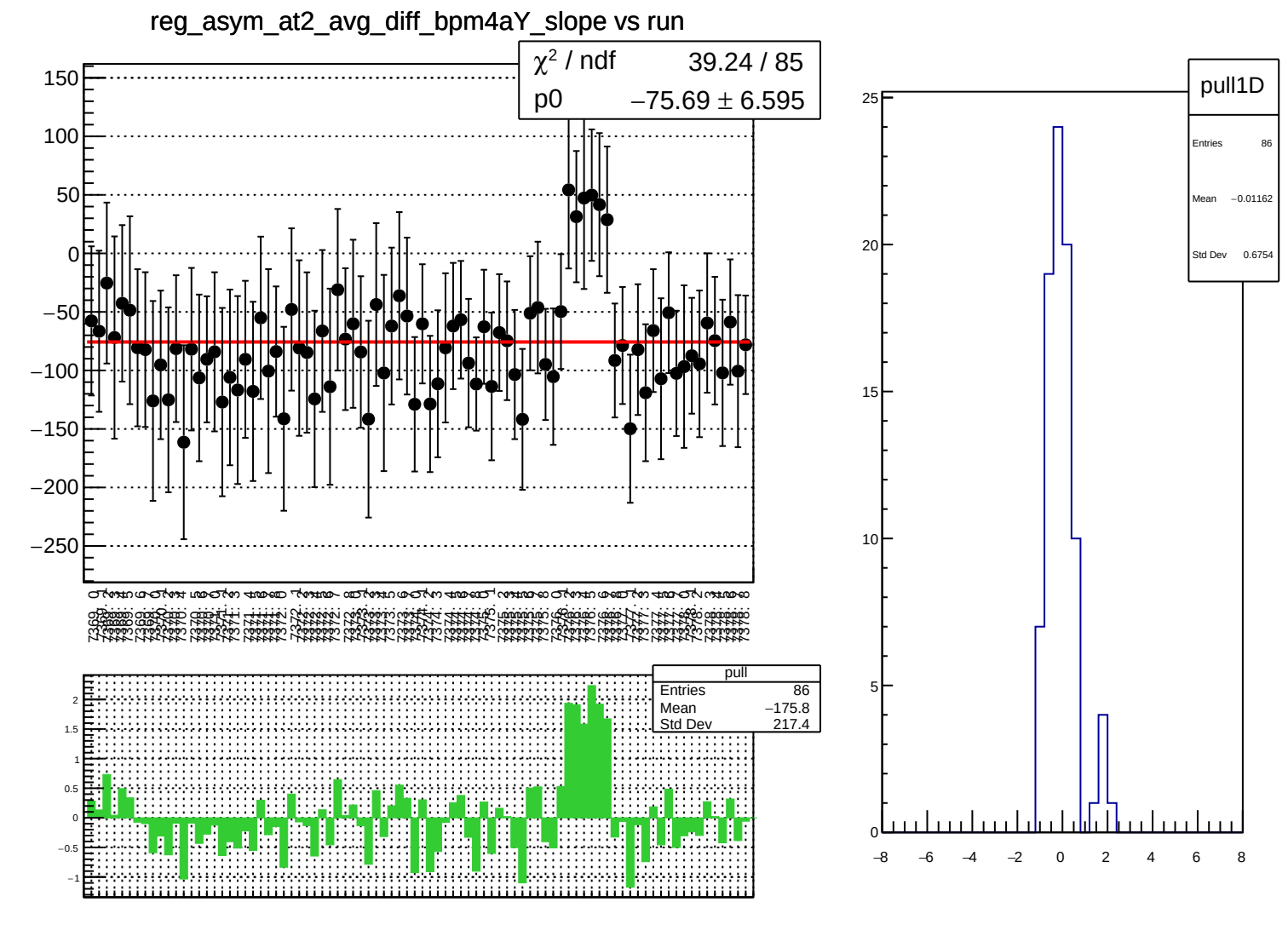

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.45 / 85
p0 16.8 ± 1.255
120
100
80
60
40
20
0
−20
pull
Entries 86
Mean 74.45
Std Dev 40.28
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.05027
Std Dev 0.9659
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

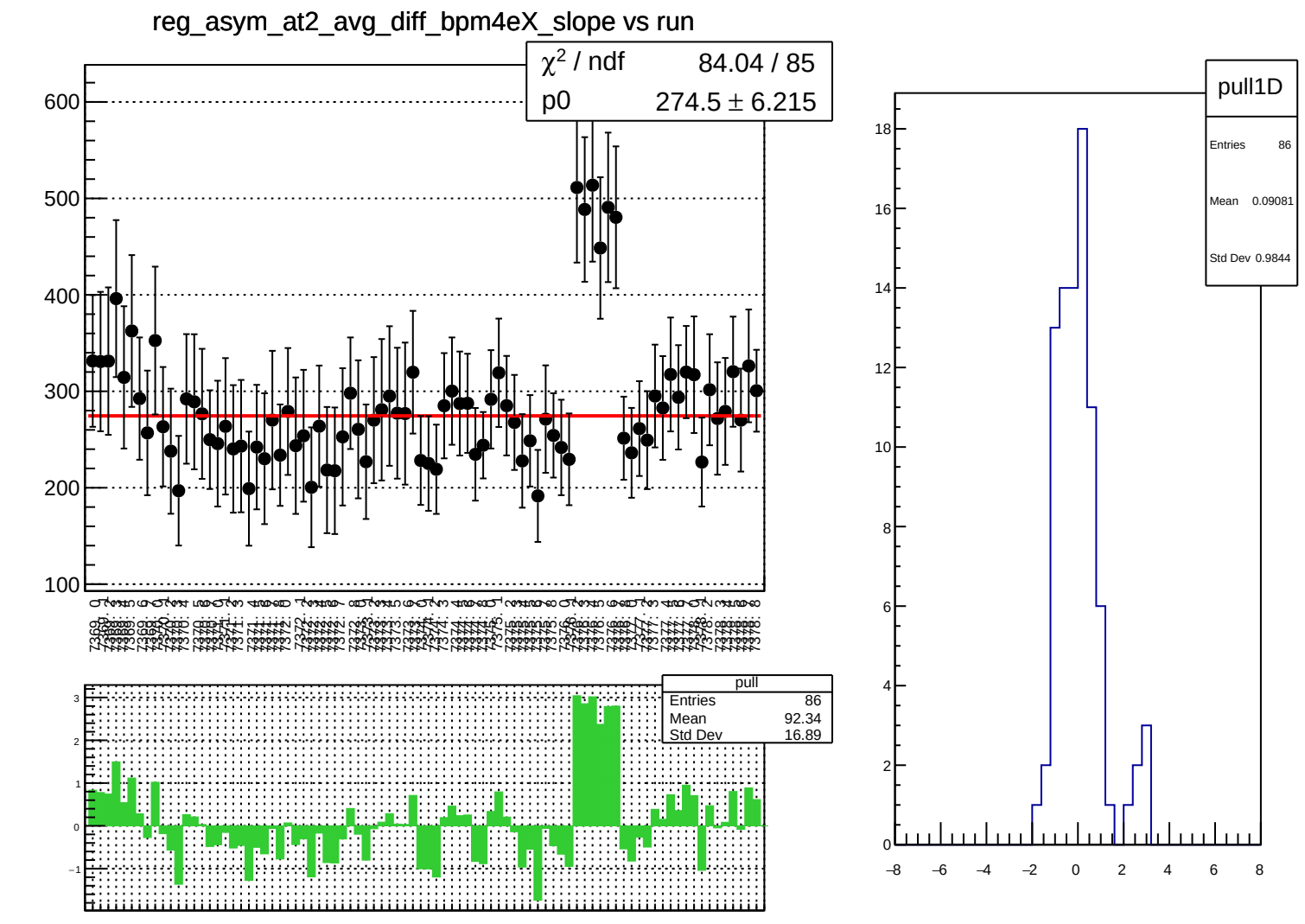

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 93.99 / 85
p0 10.43 ± 1.428
150
100
50
0
−50
pull
Entries 86
Mean −54.97
Std Dev 107.8
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.03997
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

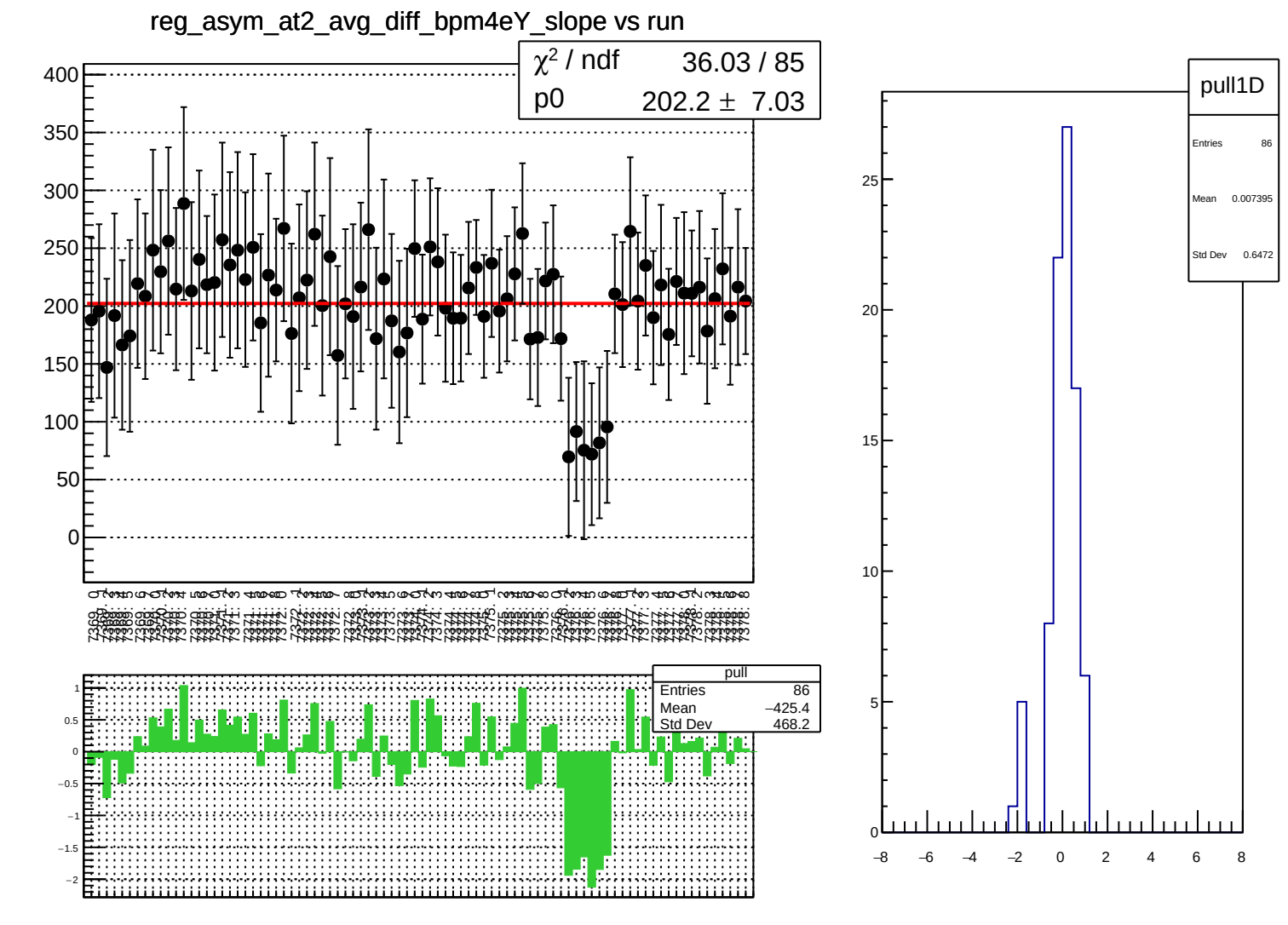

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 98.07 / 85
p0 0.9625 ± 0.06566
pull
Entries 86
Mean 204.9
Std Dev 192
pull1D
Entries 86
Mean 0.009098
Std Dev 1.068

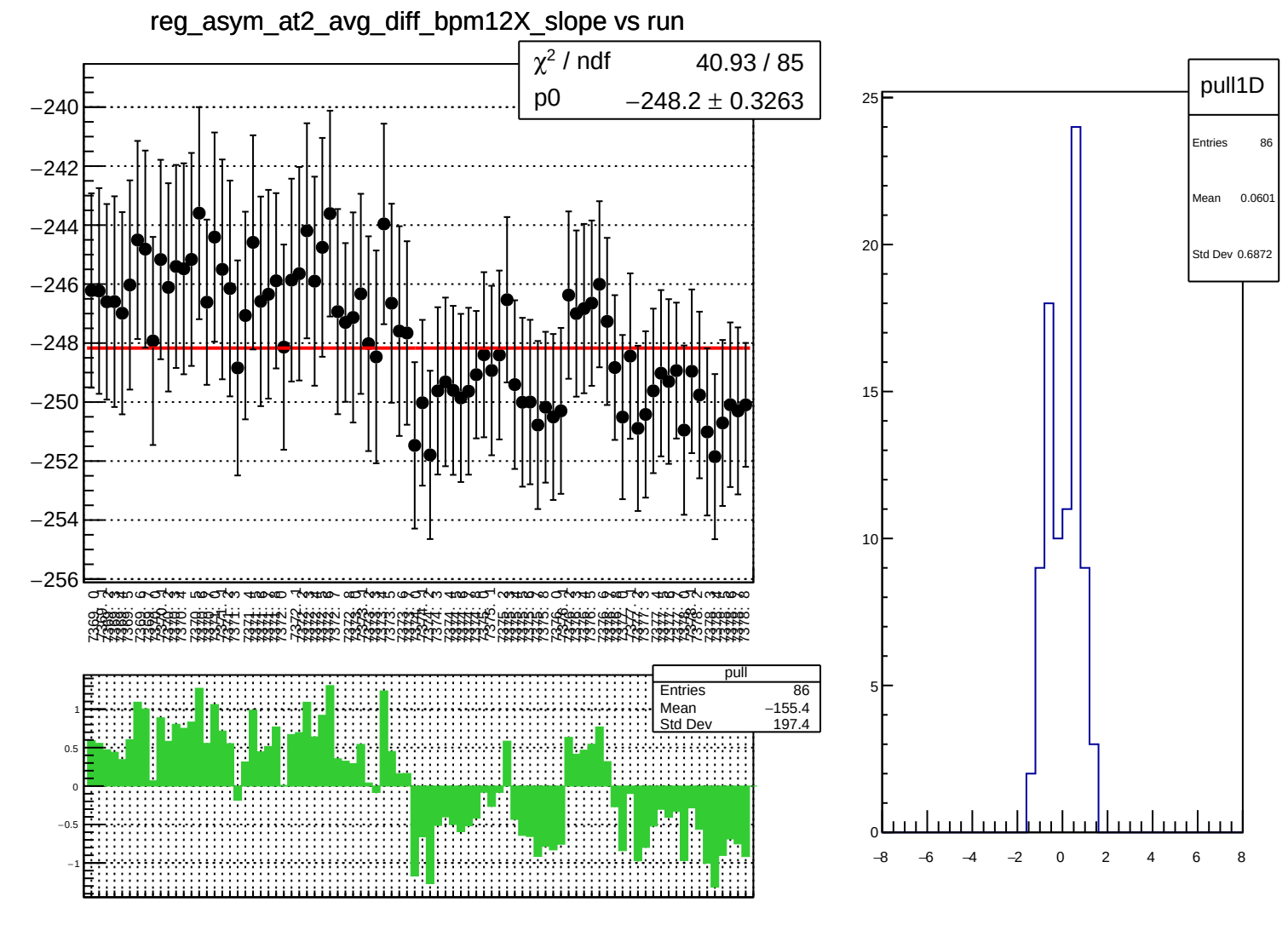

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 83.14 / 85
p0 −242 ± 5.981
−100
−200
−300
−400
−500
pull
Entries 86
Mean 88.73
Std Dev 11.66
1
0
−1
−2
−3

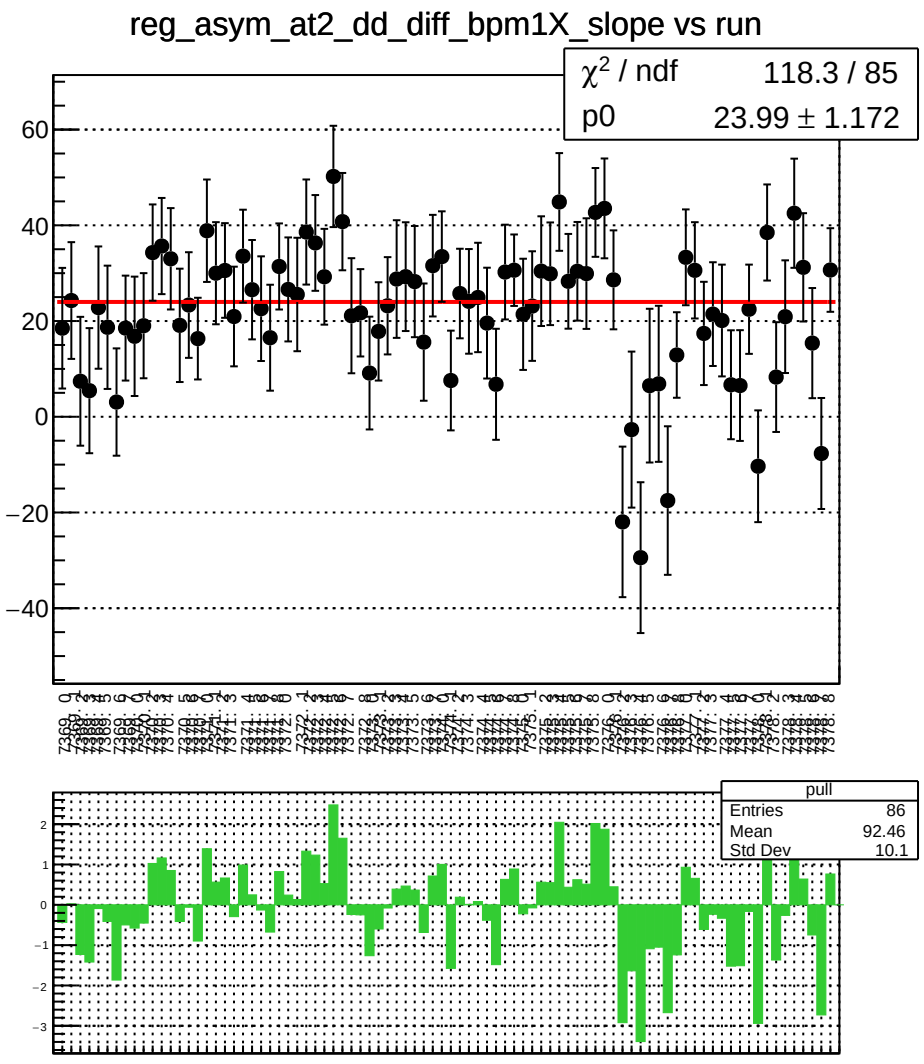

pull1D
Entries 86
Mean −0.09214
Std Dev 0.9789
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

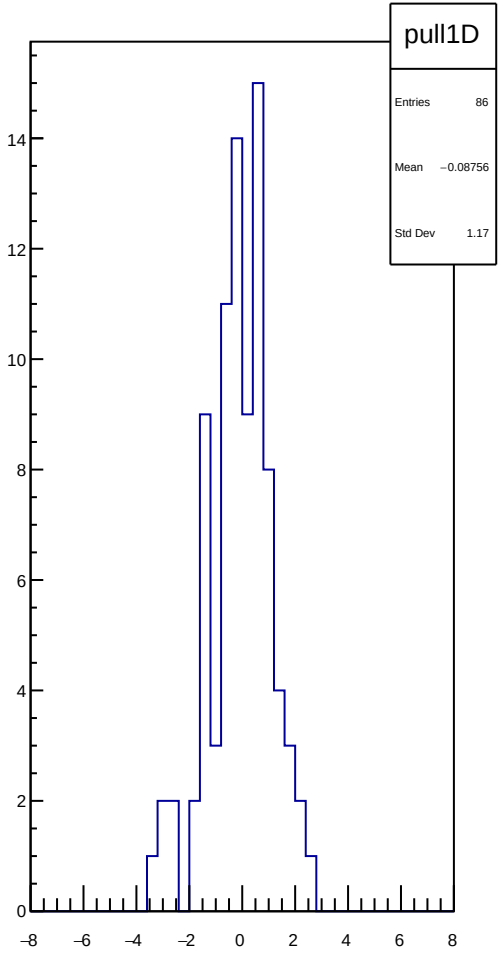

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 39.24 / 85
p0 −75.69 ± 6.595
pull
Entries 86
Mean −175.8
Std Dev 217.4
pull1D
Entries 86
Mean −0.01162
Std Dev 0.6754

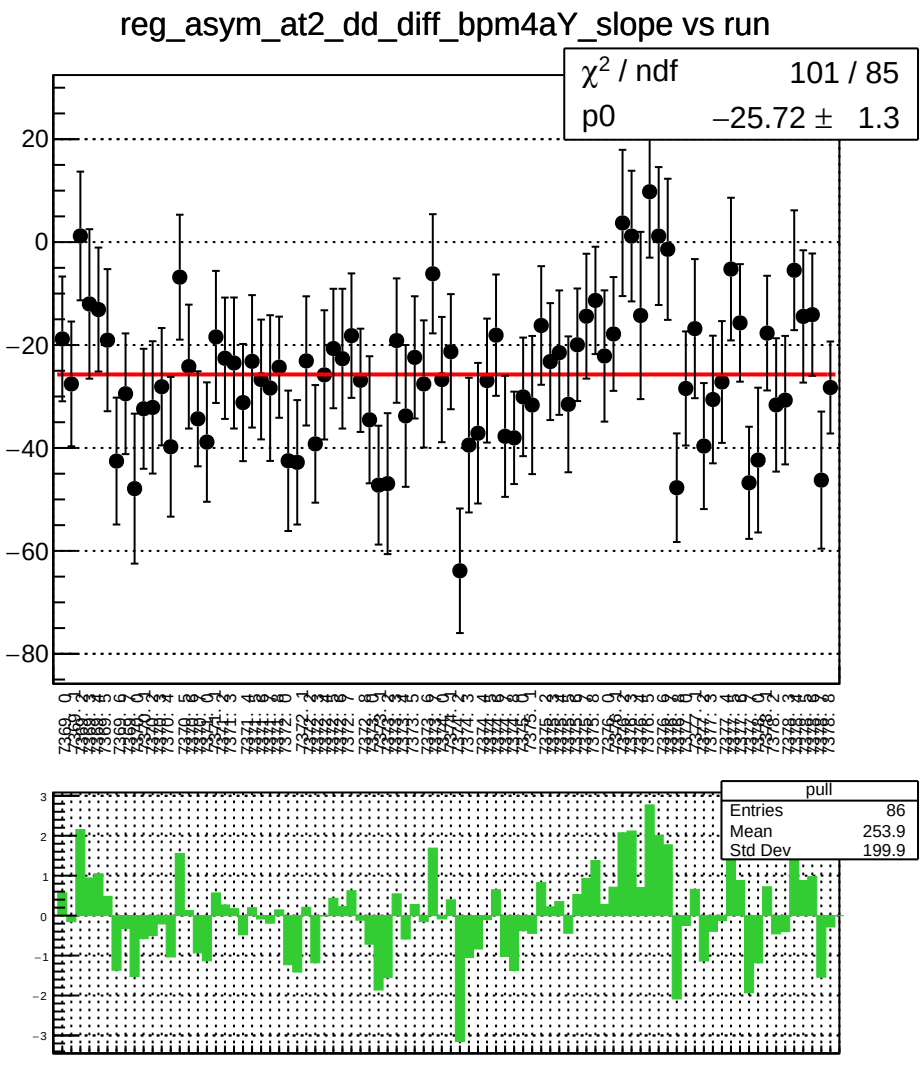

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.04 / 85
p0 274.5 ± 6.215
pull
Entries 86
Mean 92.34
Std Dev 16.89
pull1D
Entries 86
Mean 0.09081
Std Dev 0.9844

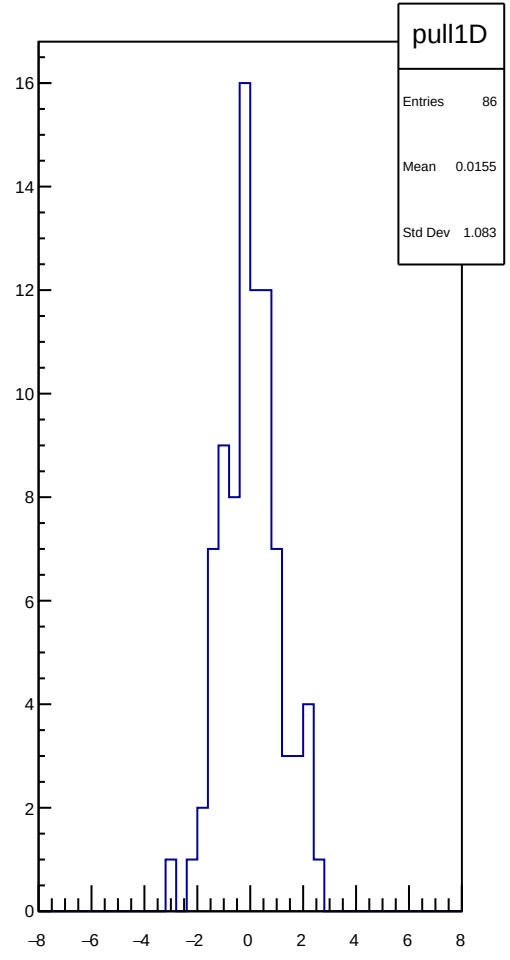

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.03 / 85
p0 202.2 ± 7.03
pull
Entries 86
Mean −425.4
Std Dev 468.2
pull1D
Entries 86
Mean 0.007395
Std Dev 0.6472

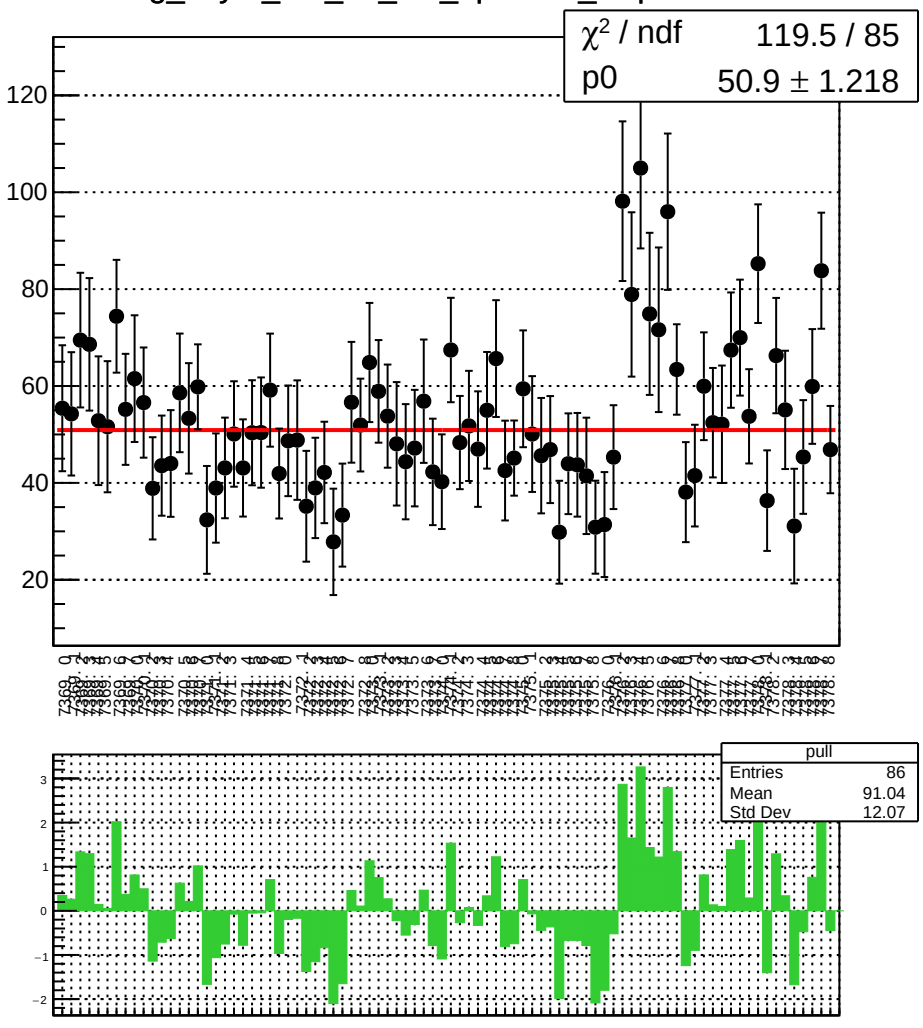

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 40.93 / 85
p0 −248.2 ± 0.3263
pull
Entries 86
Mean −155.4
Std Dev 197.4
pull1D
Entries 86
Mean 0.0601
Std Dev 0.6872

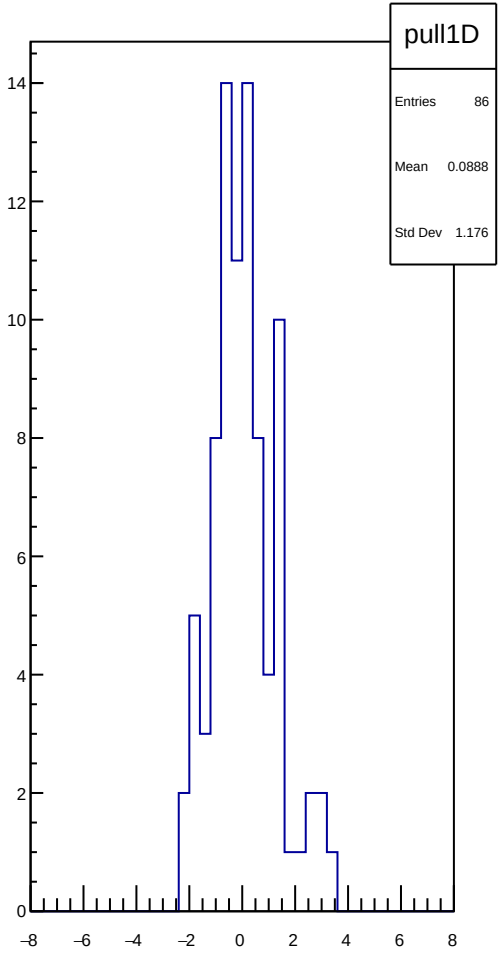

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 118.3 / 85
p0 23.99 ± 1.172
pull
Entries 86
Mean 92.46
Std Dev 10.1

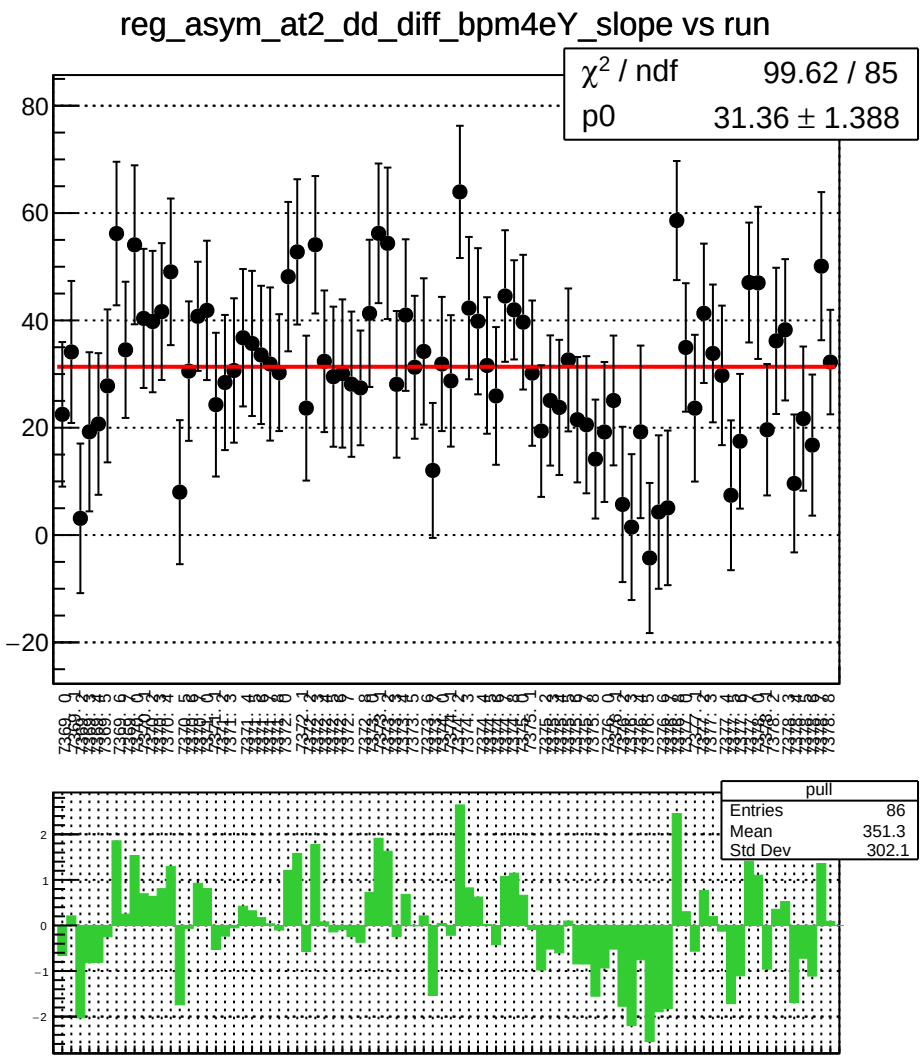

pull1D
Entries 86
Mean −0.08756
Std Dev 1.17

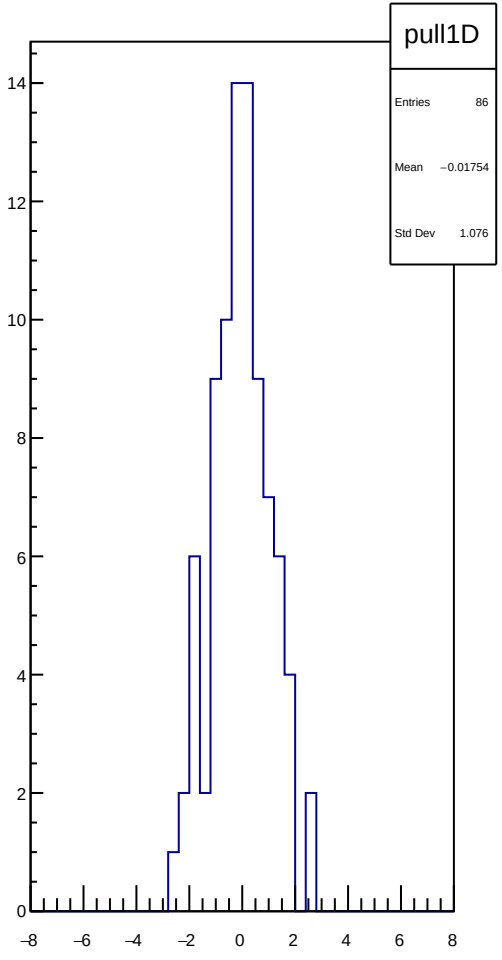

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 101 / 85
p0 −25.72 ± 1.3
pull
Entries 86
Mean 253.9
Std Dev 199.9

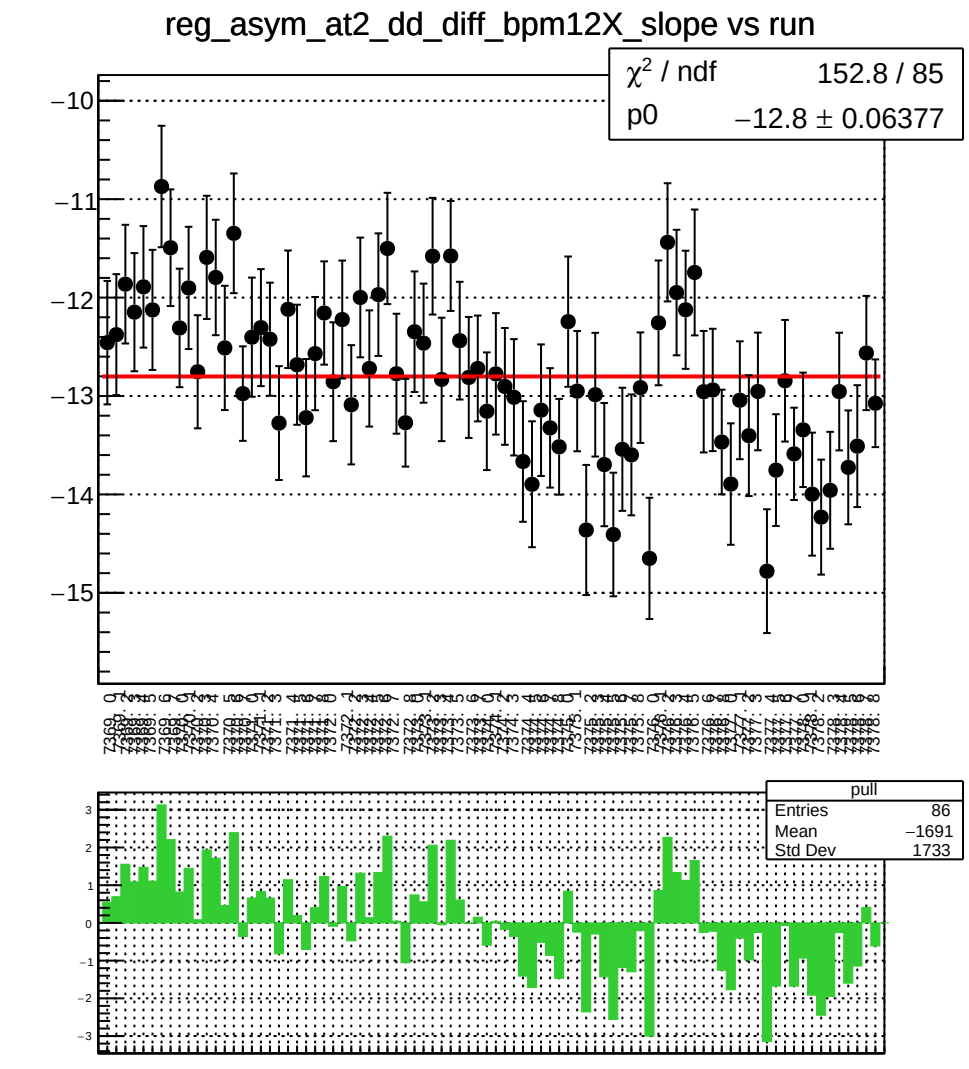

pull1D
Entries 86
Mean 0.0155
Std Dev 1.083

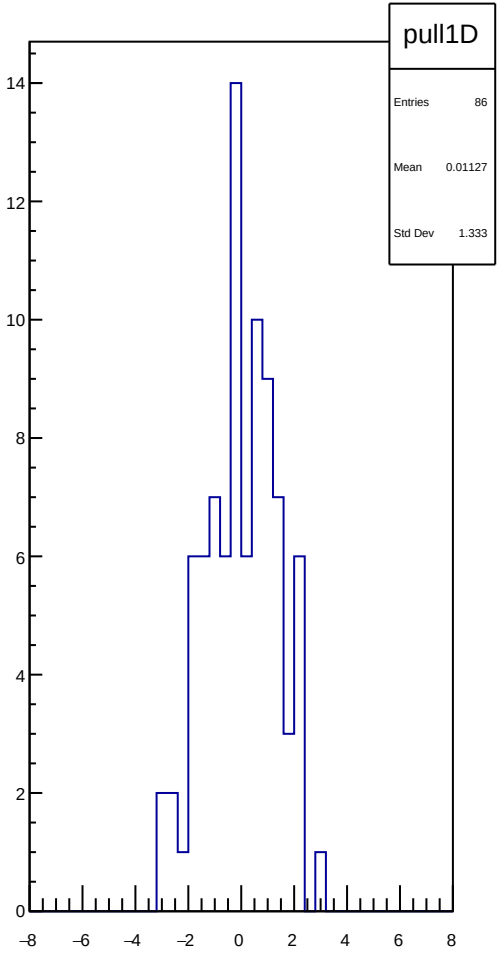

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 119.5 / 85
p0 50.9 ± 1.218
pull
Entries 86
Mean 91.04
Std Dev 12.07

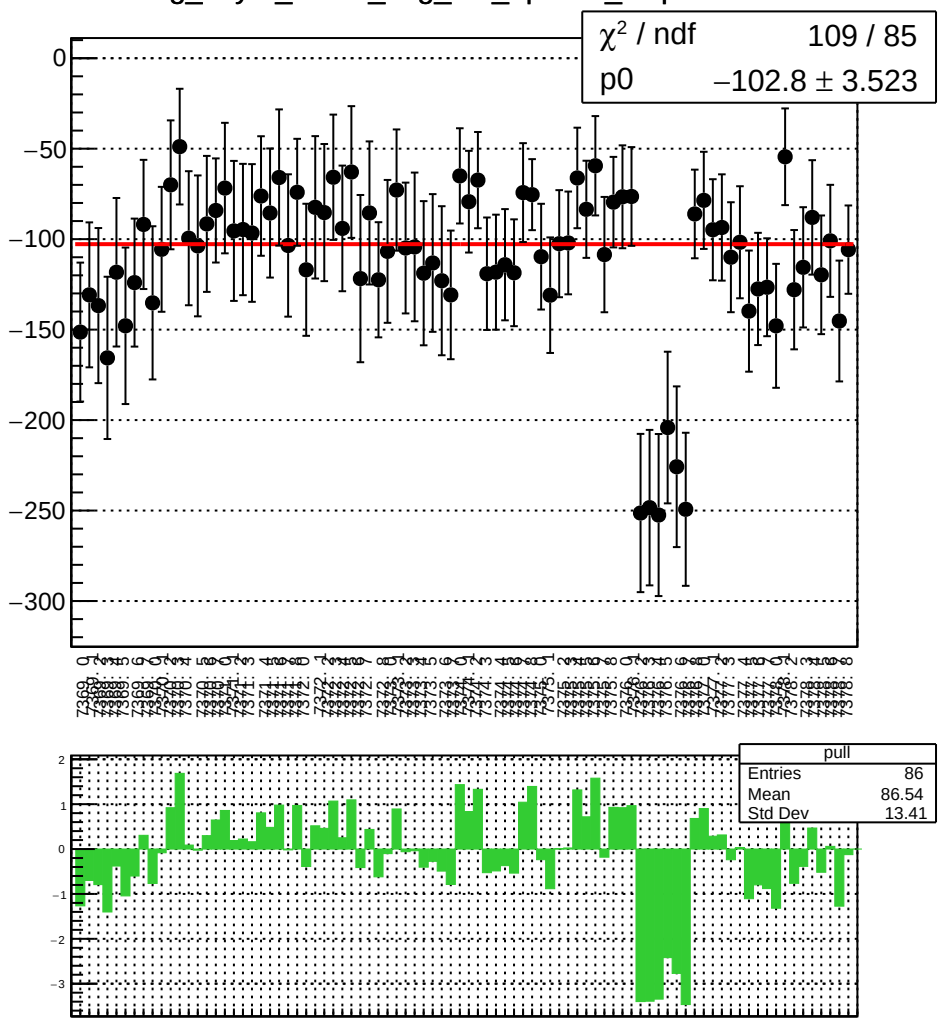

pull1D
Entries 86
Mean 0.0888
Std Dev 1.176

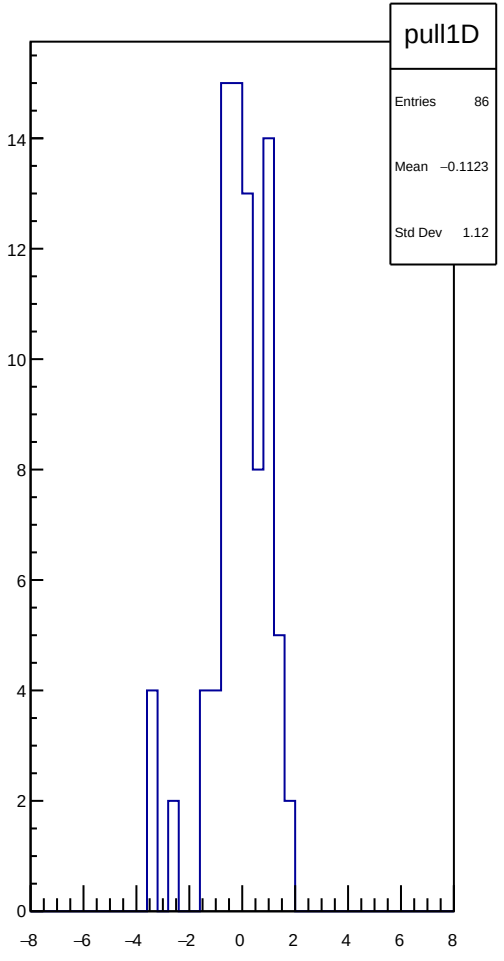

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 99.62 / 85
p0 31.36 ± 1.388
pull
Entries 86
Mean 351.3
Std Dev 302.1

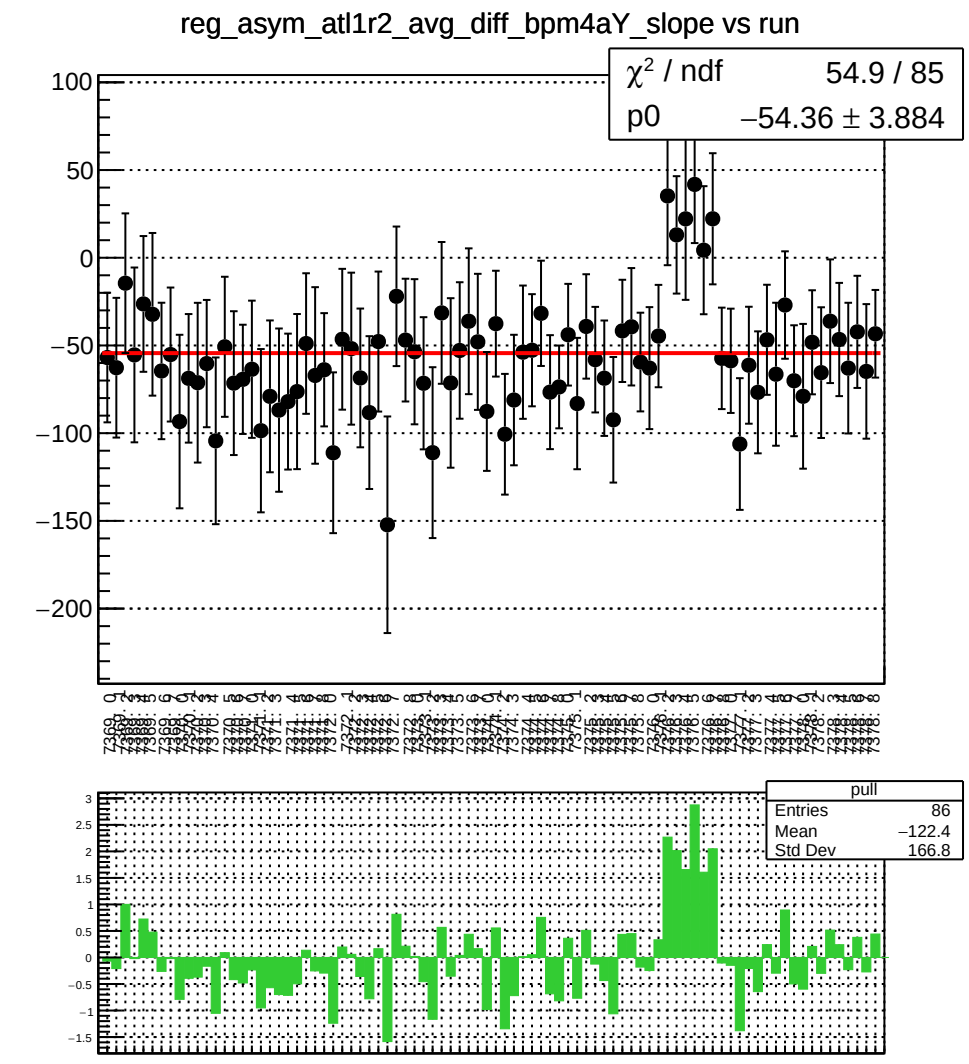

pull1D
Entries 86
Mean −0.01754
Std Dev 1.076

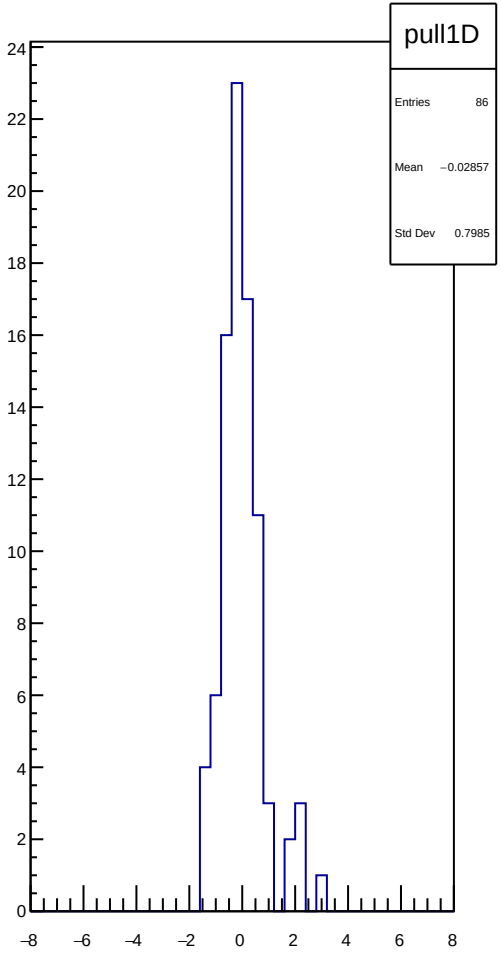

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 152.8 / 85
p0 −12.8 ± 0.06377
pull
Entries 86
Mean −1691
Std Dev 1733

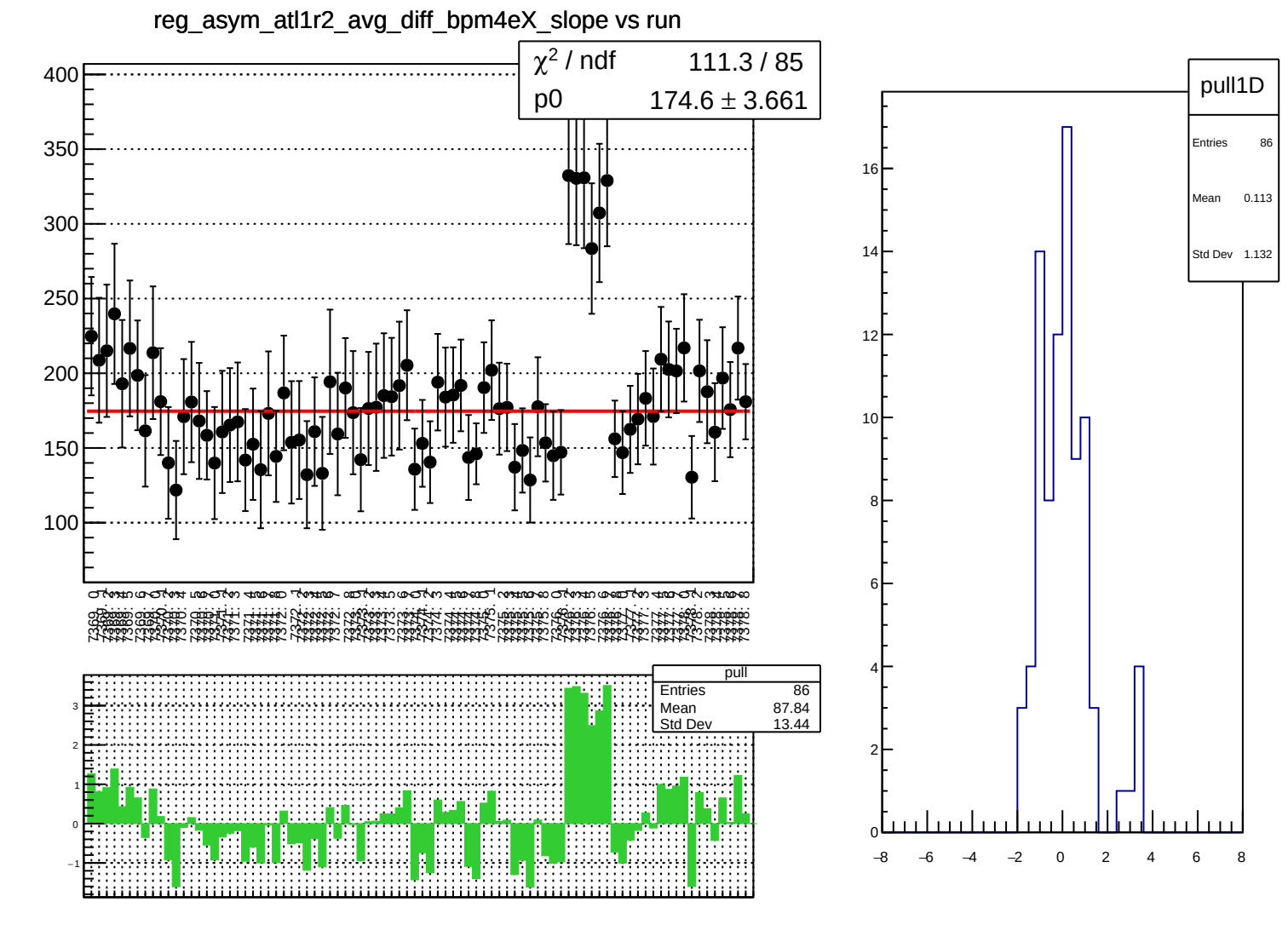

pull1D
Entries 86
Mean 0.01127
Std Dev 1.333

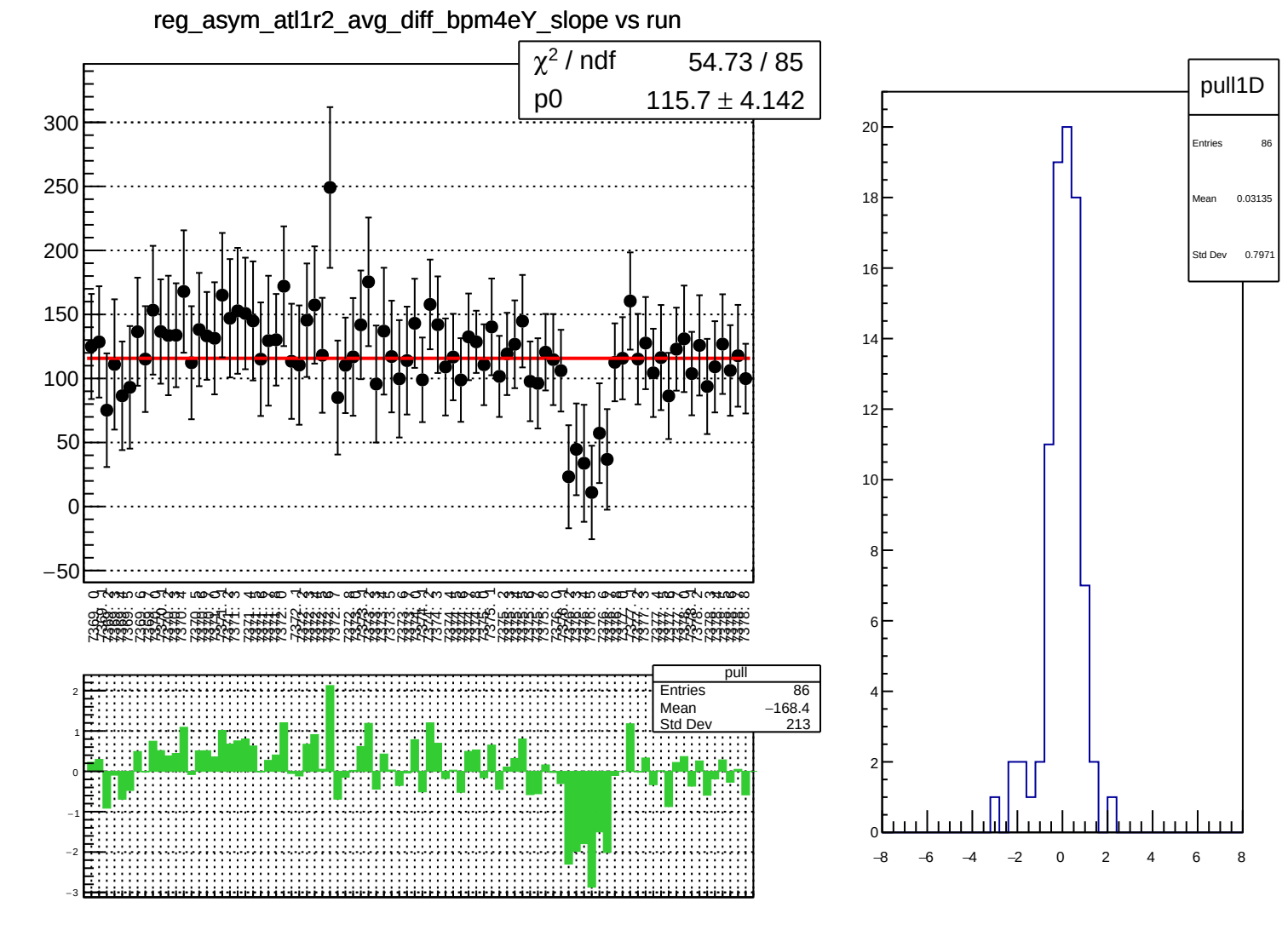

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 109 / 85
p0 −102.8 ± 3.523
pull
Entries 86
Mean 86.54
Std Dev 13.41

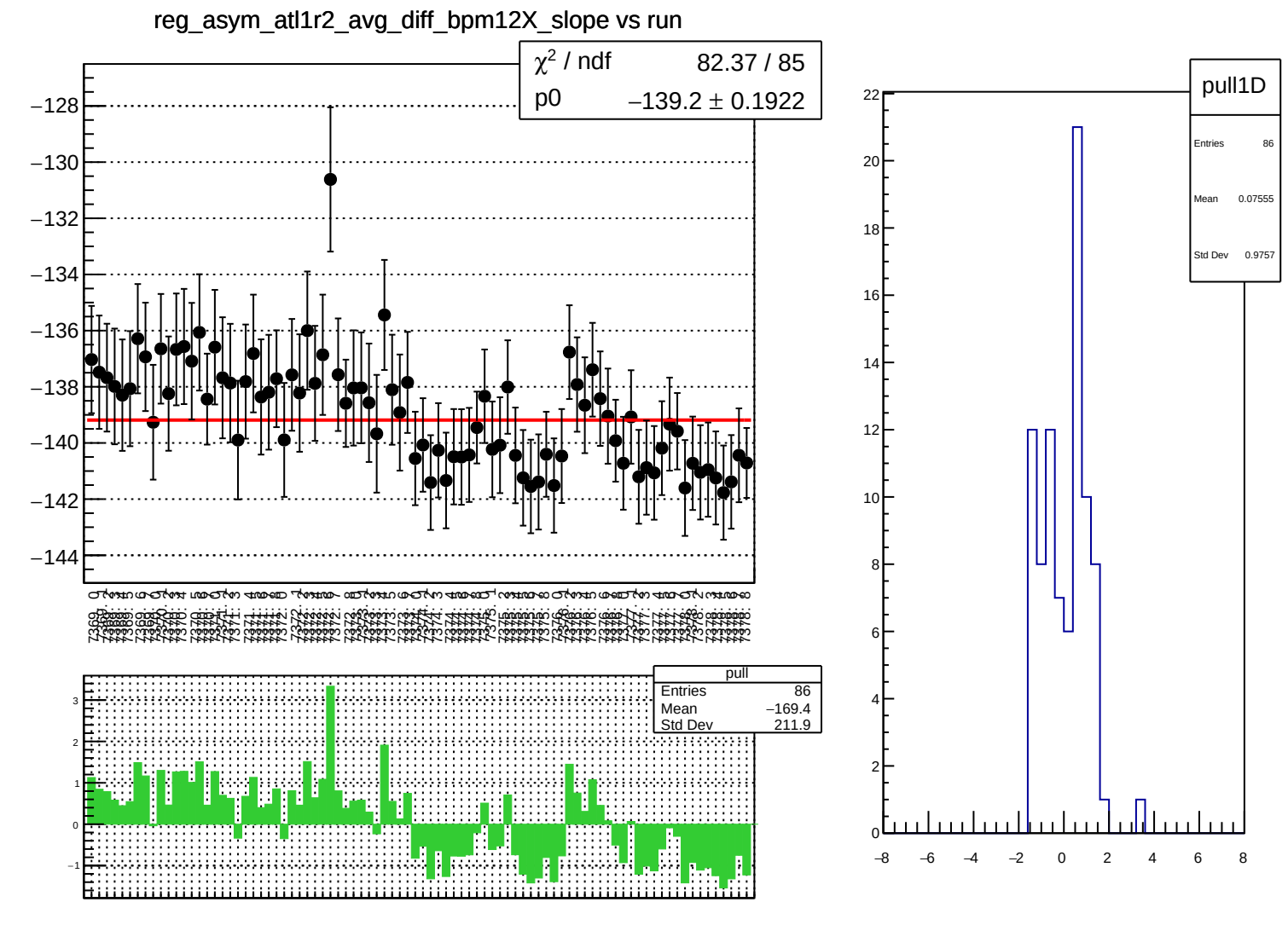

pull1D
Entries 86
Mean −0.1123
Std Dev 1.12

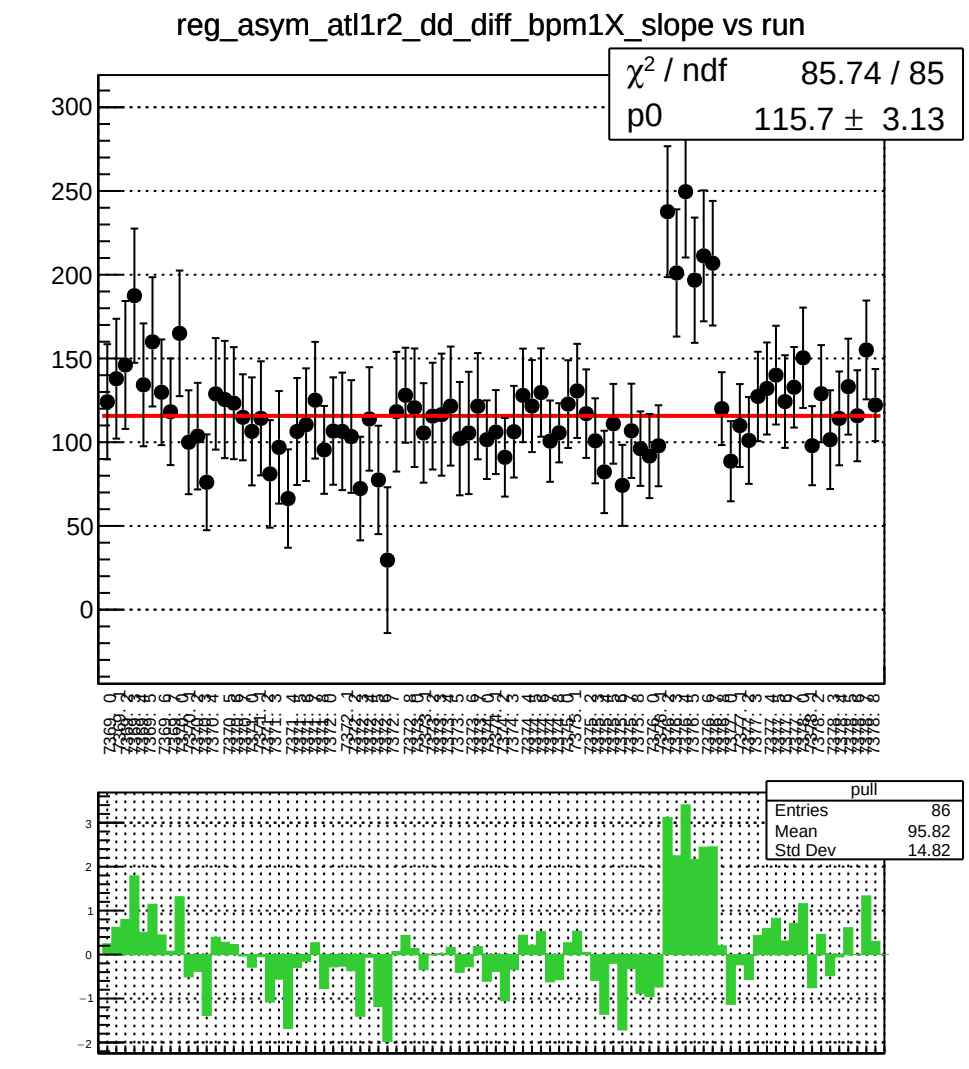

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 54.9 / 85
p0 −54.36 ± 3.884
pull
Entries 86
Mean −122.4
Std Dev 166.8

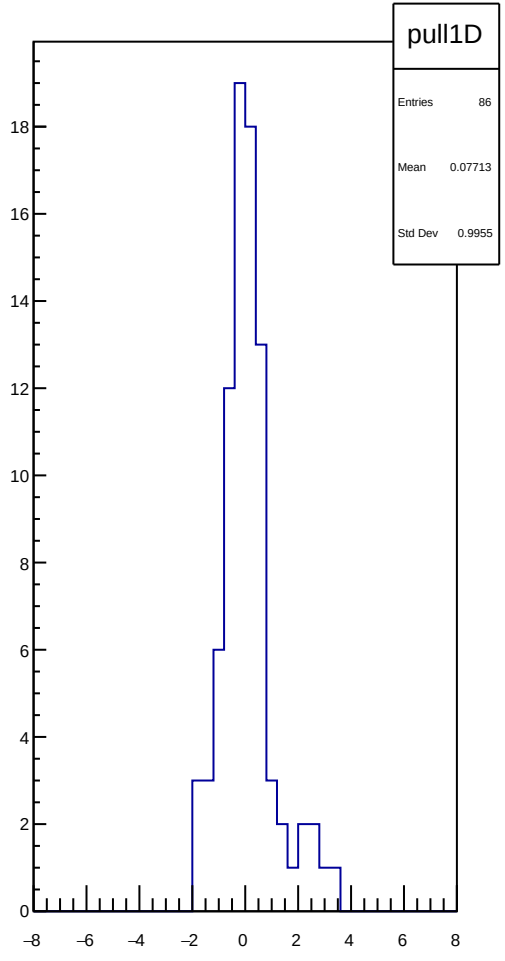

pull1D
Entries 86
Mean −0.02857
Std Dev 0.7985

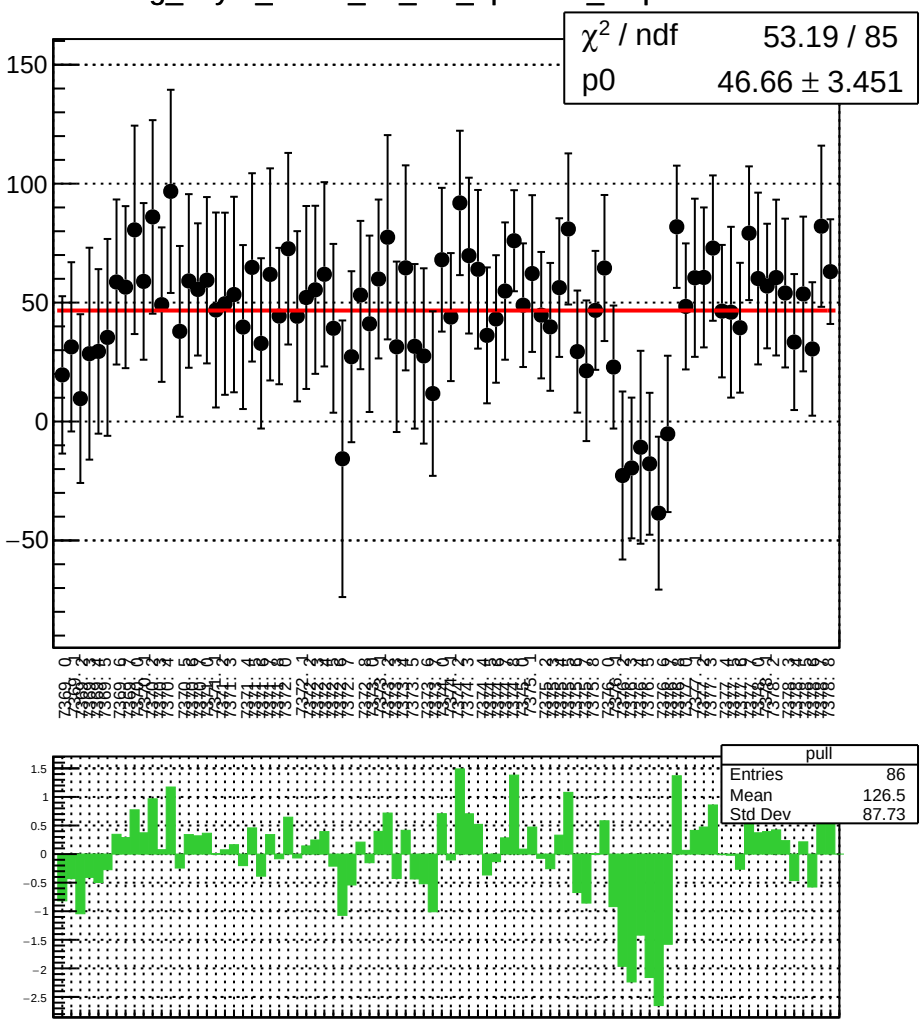

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 111.3 / 85
p0 174.6 ± 3.661
pull
Entries 86
Mean 87.84
Std Dev 13.44
pull1D
Entries 86
Mean 0.113
Std Dev 1.132

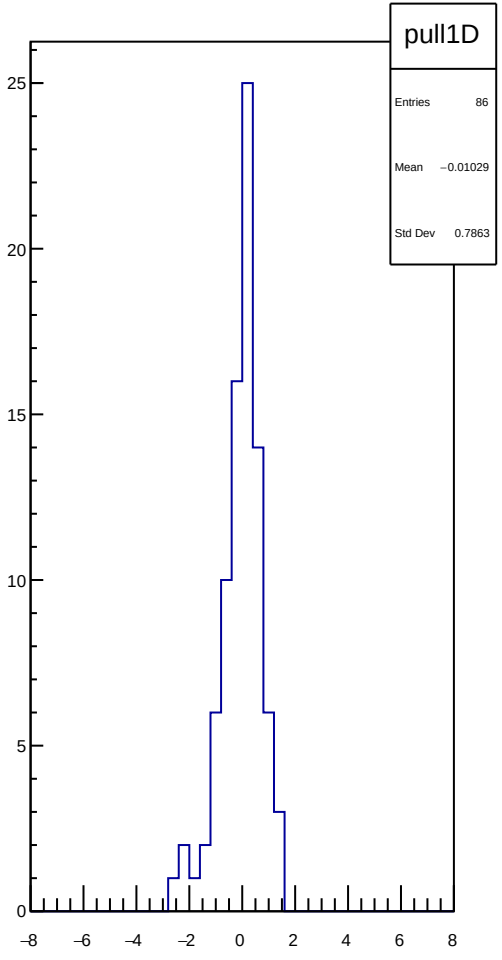

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 54.73 / 85
p0 115.7 ± 4.142
pull
Entries 86
Mean −168.4
Std Dev 213
pull1D
Entries 86
Mean 0.03135
Std Dev 0.7971

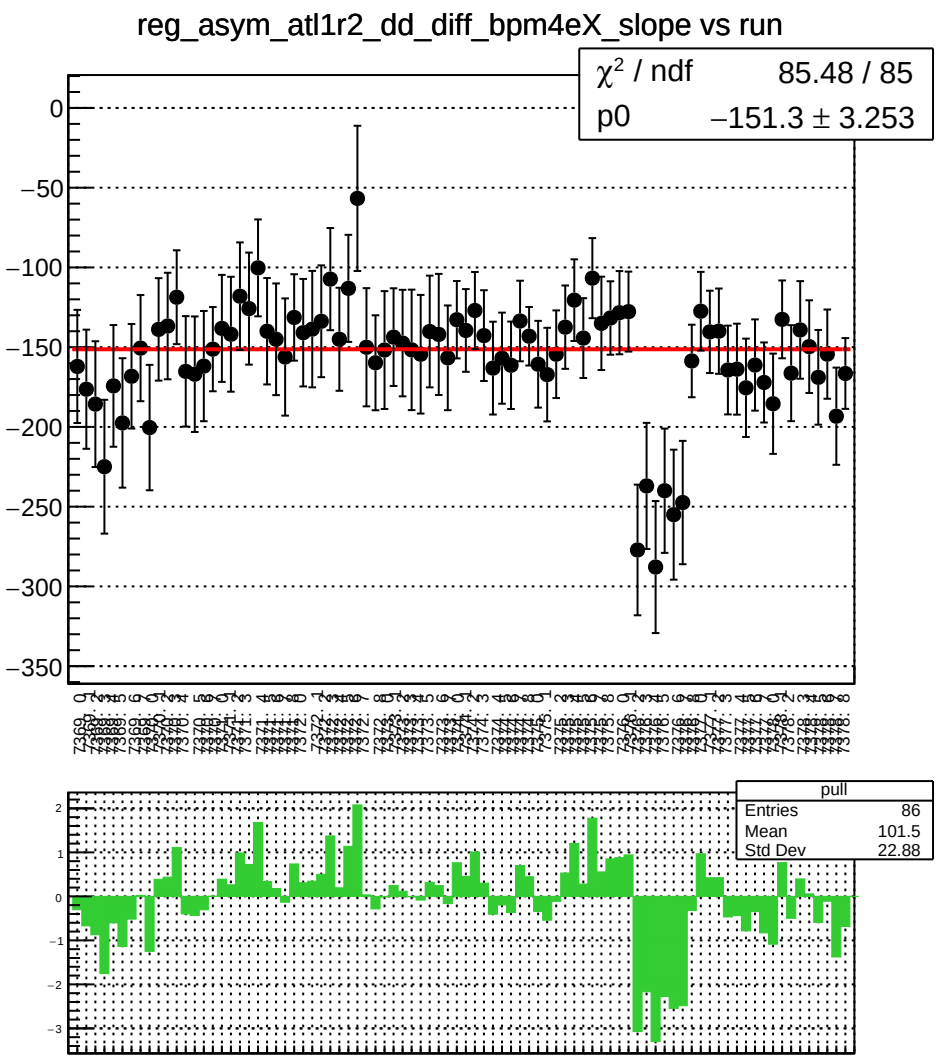

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 82.37 / 85
p0 −139.2 ± 0.1922
−128
−130
−132
−134
−136
−138
−140
−142
−144
pull
Entries 86
Mean −169.4
Std Dev 211.9
3
2
1
0
−1
pull1D
Entries 86
Mean 0.07555
Std Dev 0.9757
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

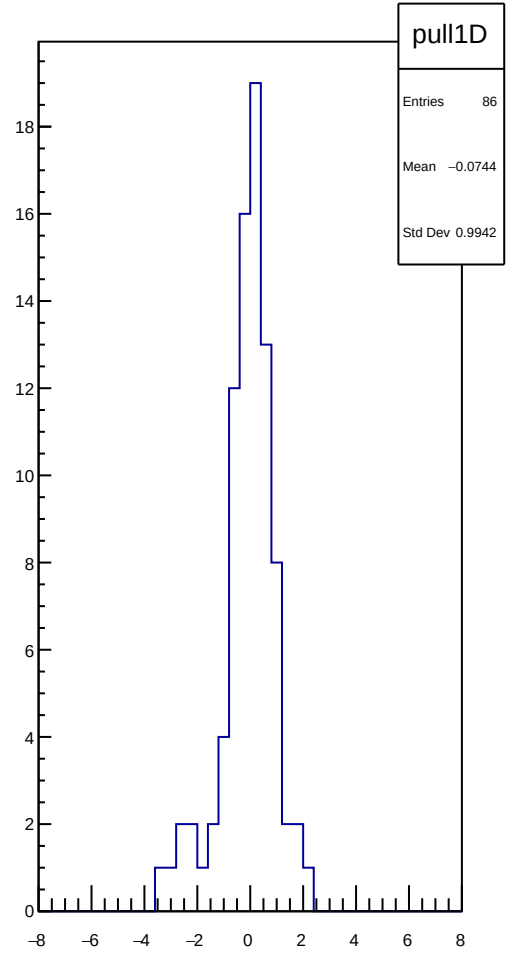

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 85.74 / 85
p0 115.7 ± 3.13
pull
Entries 86
Mean 95.82
Std Dev 14.82

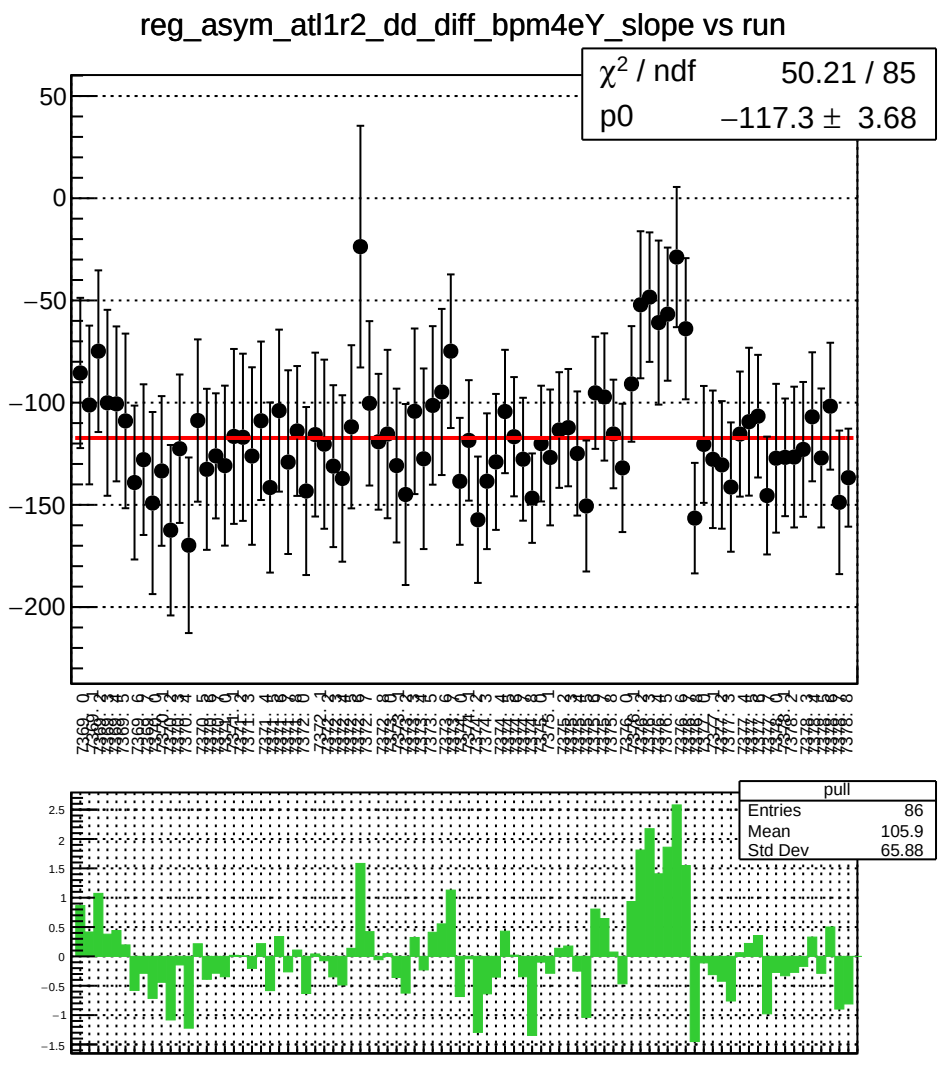

pull1D
Entries 86
Mean 0.07713
Std Dev 0.9955

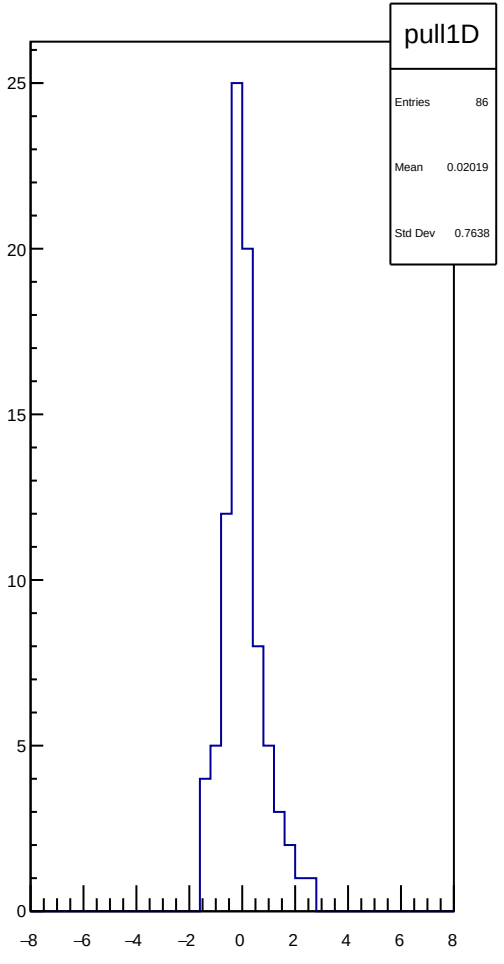

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.19 / 85
p0 46.66 ± 3.451
150
100
50
0
−50
pull
Entries 86
Mean 126.5
Std Dev 87.73
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

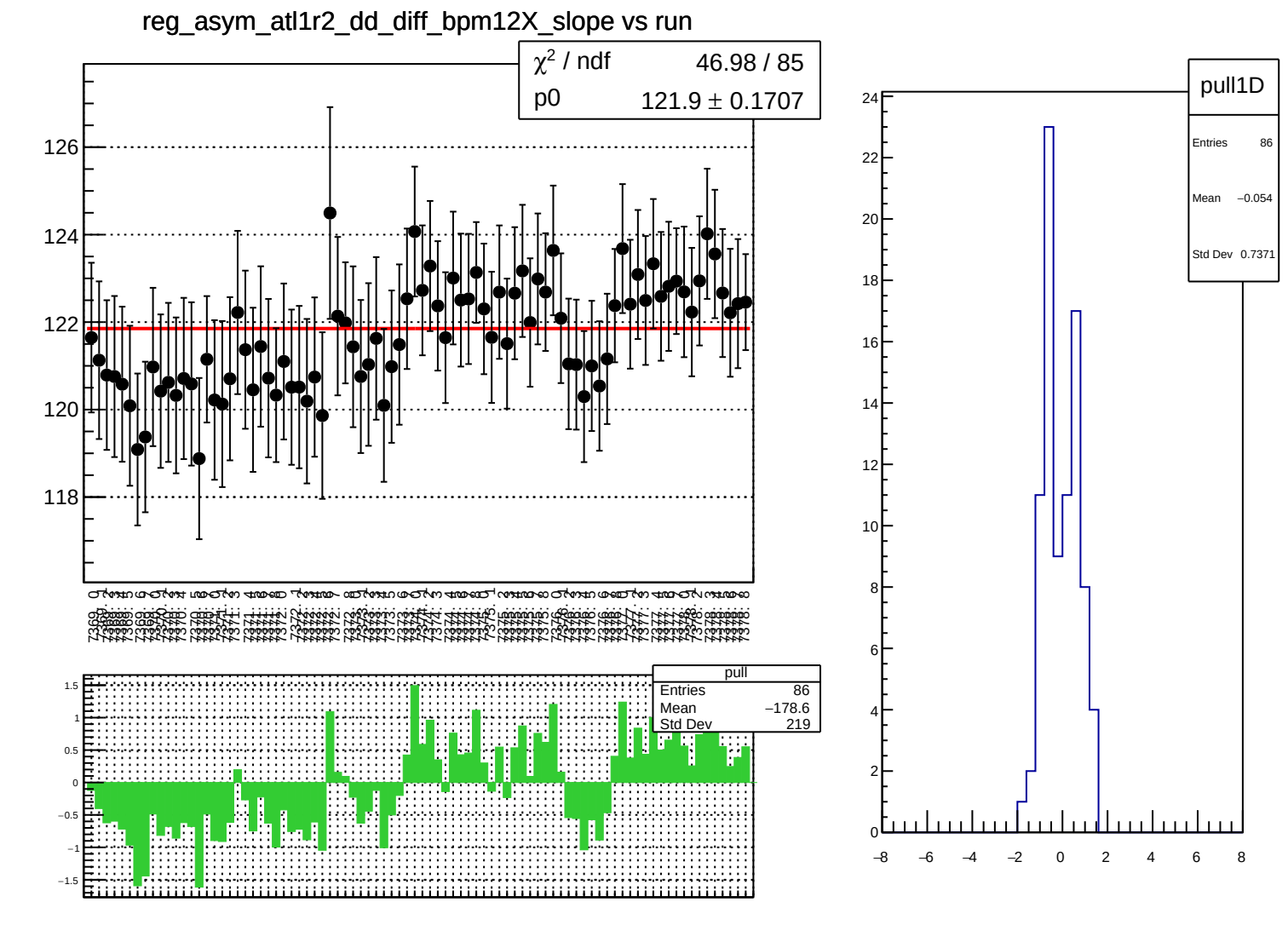

pull1D
Entries 86
Mean −0.01029
Std Dev 0.7863
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

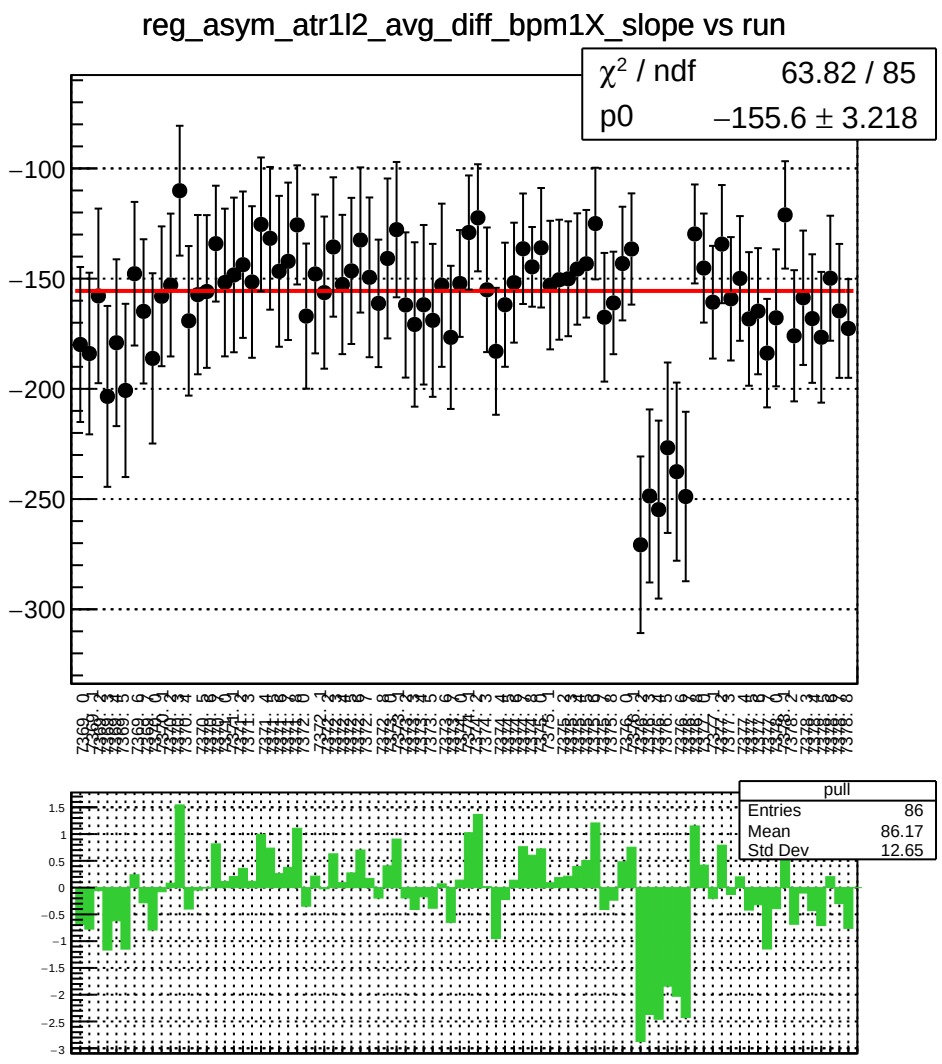

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.48 / 85
p0 −151.3 ± 3.253
pull
Entries 86
Mean 101.5
Std Dev 22.88

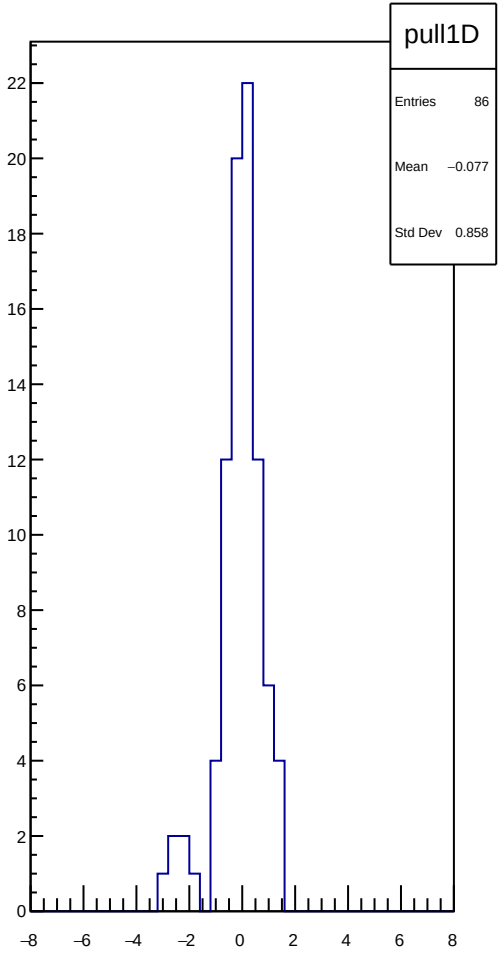

pull1D
Entries 86
Mean −0.0744
Std Dev 0.9942

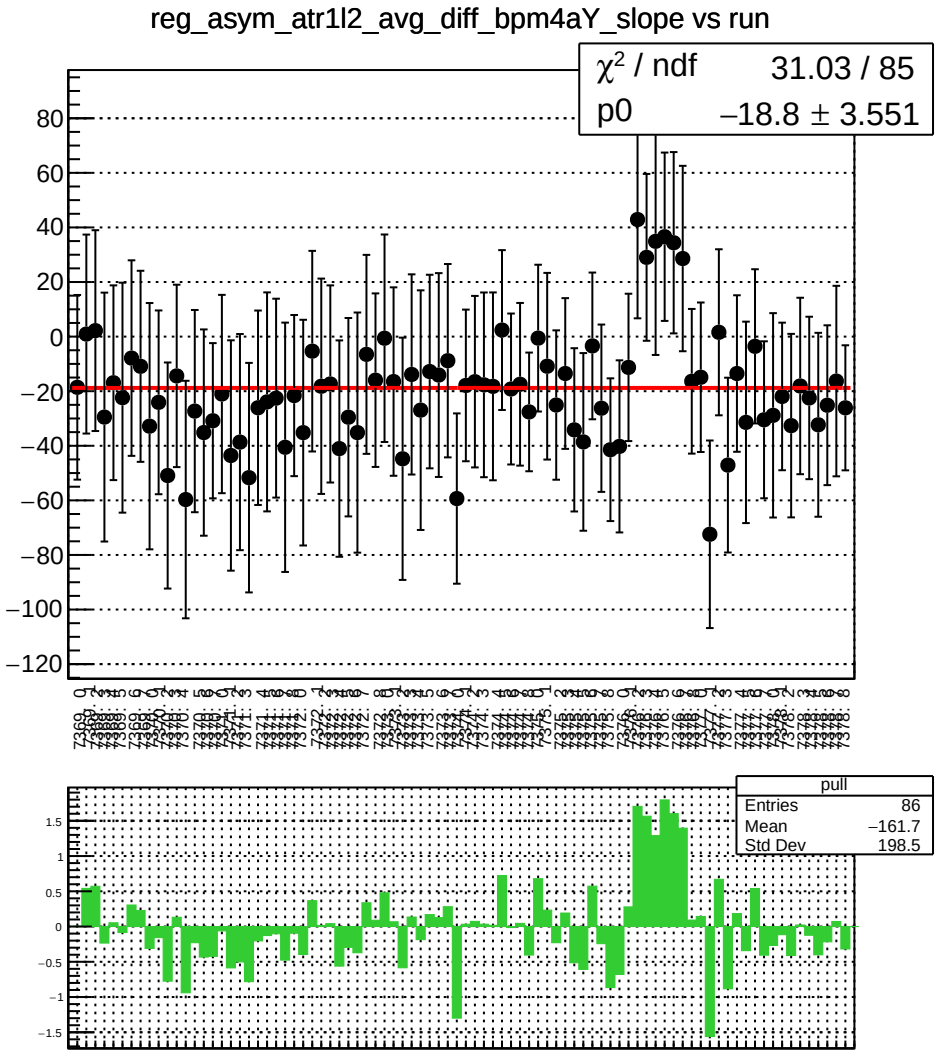

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.21 / 85
p0 −117.3 ± 3.68
pull
Entries 86
Mean 105.9
Std Dev 65.88

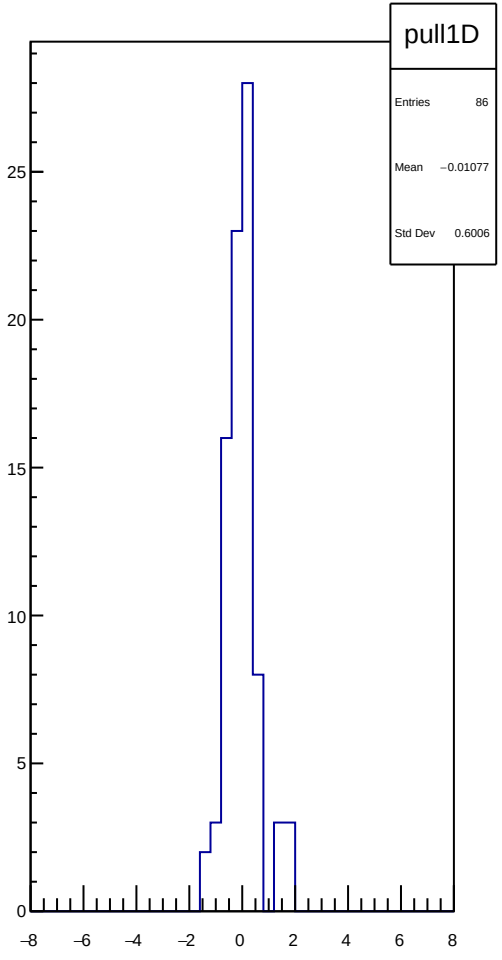

pull1D
Entries 86
Mean 0.02019
Std Dev 0.7638

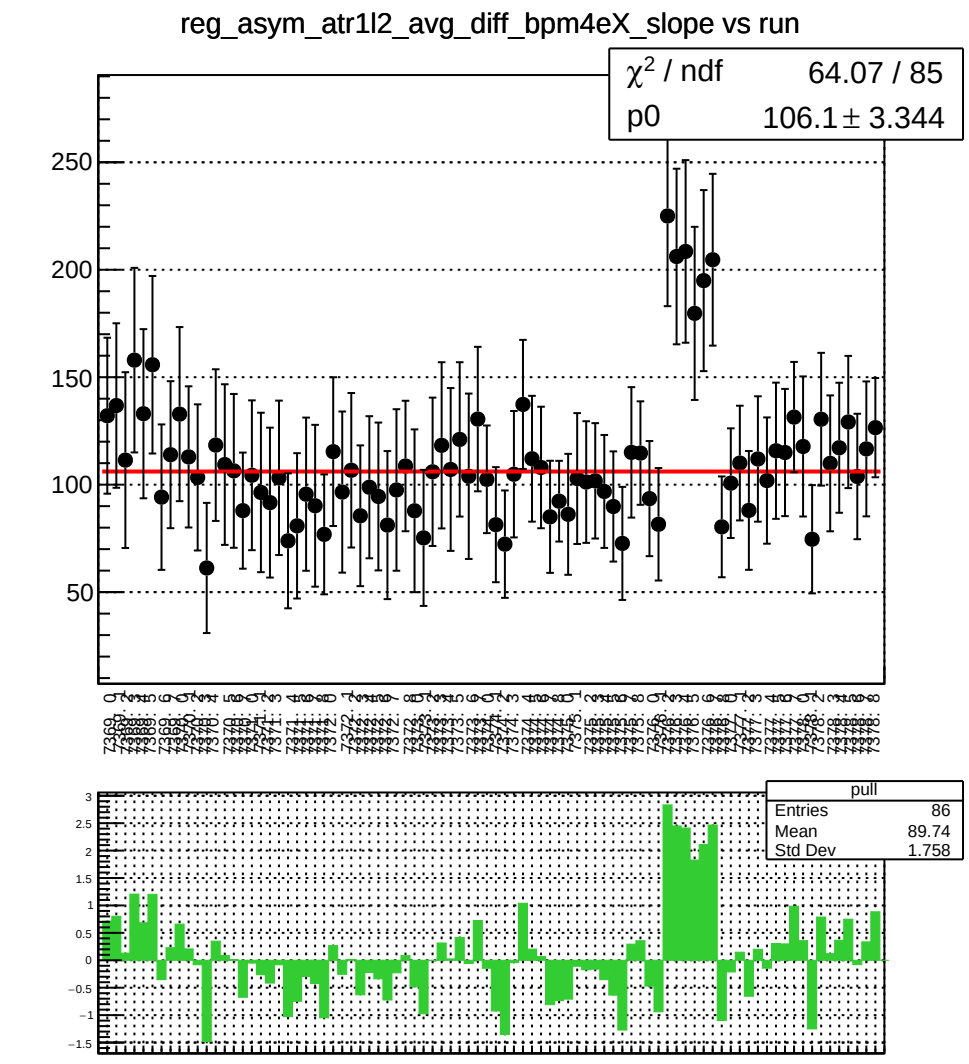

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 46.98 / 85
p0 121.9 ± 0.1707
126
124
122
120
118
pull
Entries 86
Mean −178.6
Std Dev 219
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean −0.054
Std Dev 0.7371
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

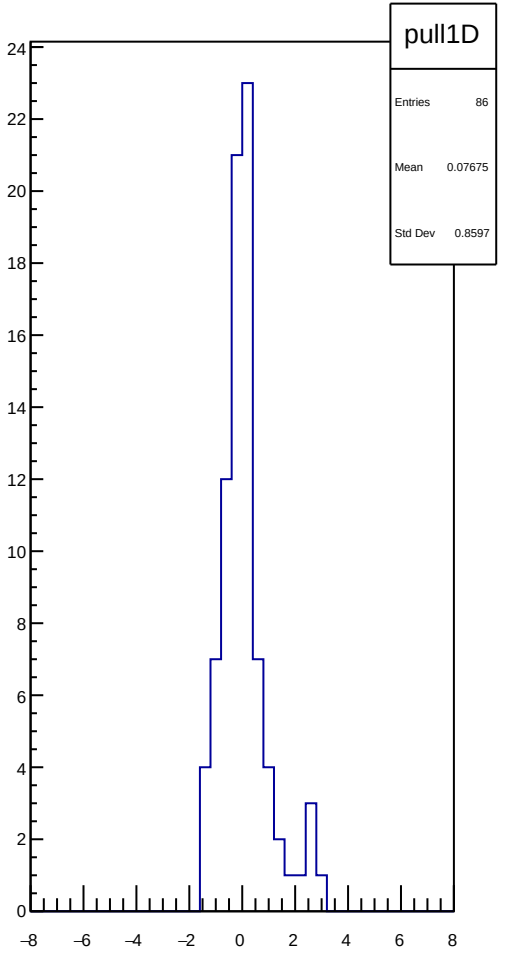

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 63.82 / 85
p0 −155.6 ± 3.218
−100
−150
−200
−250
−300
pull
Entries 86
Mean 86.17
Std Dev 12.65
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

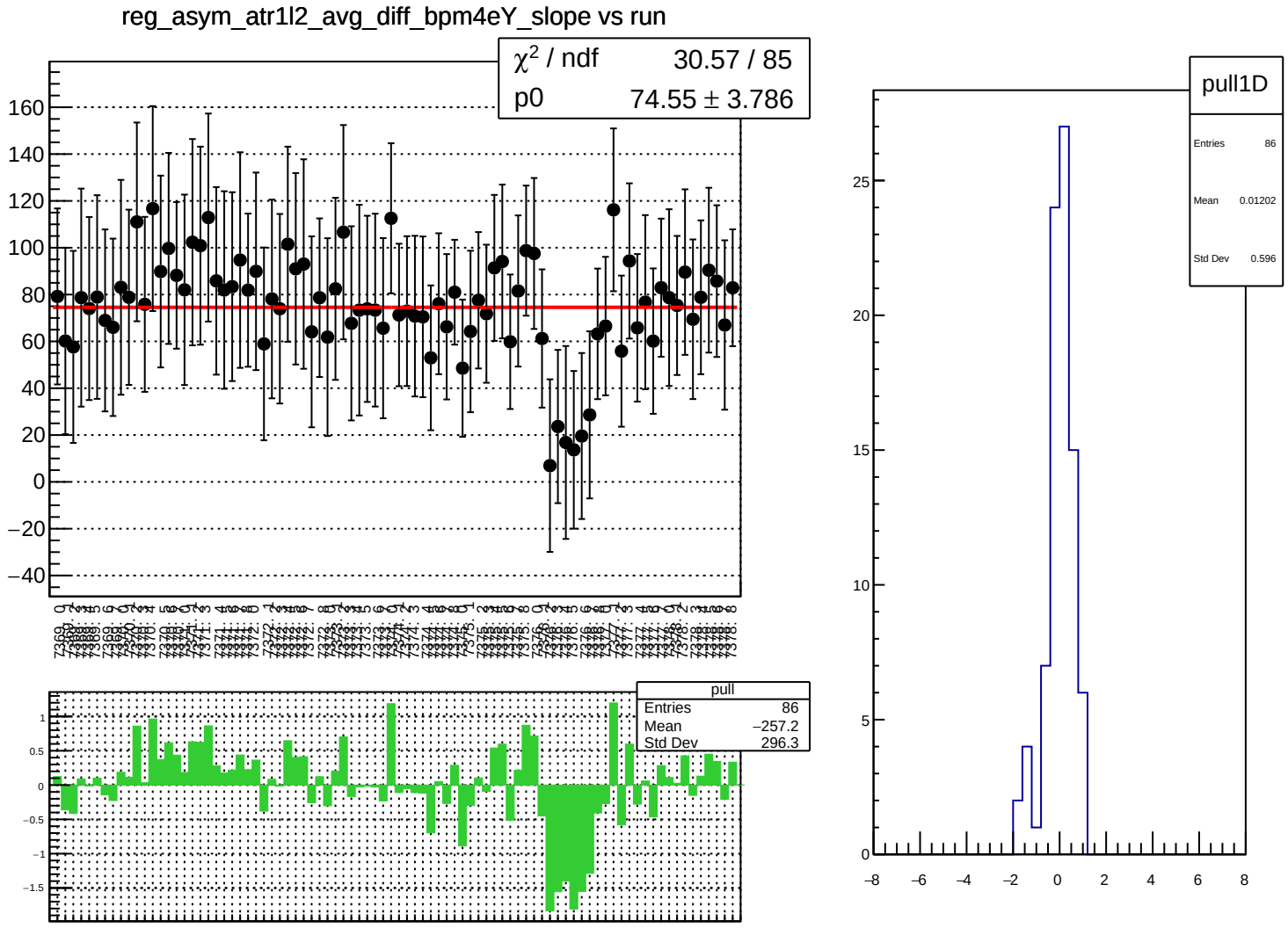

pull1D
Entries 86
Mean −0.077
Std Dev 0.858
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

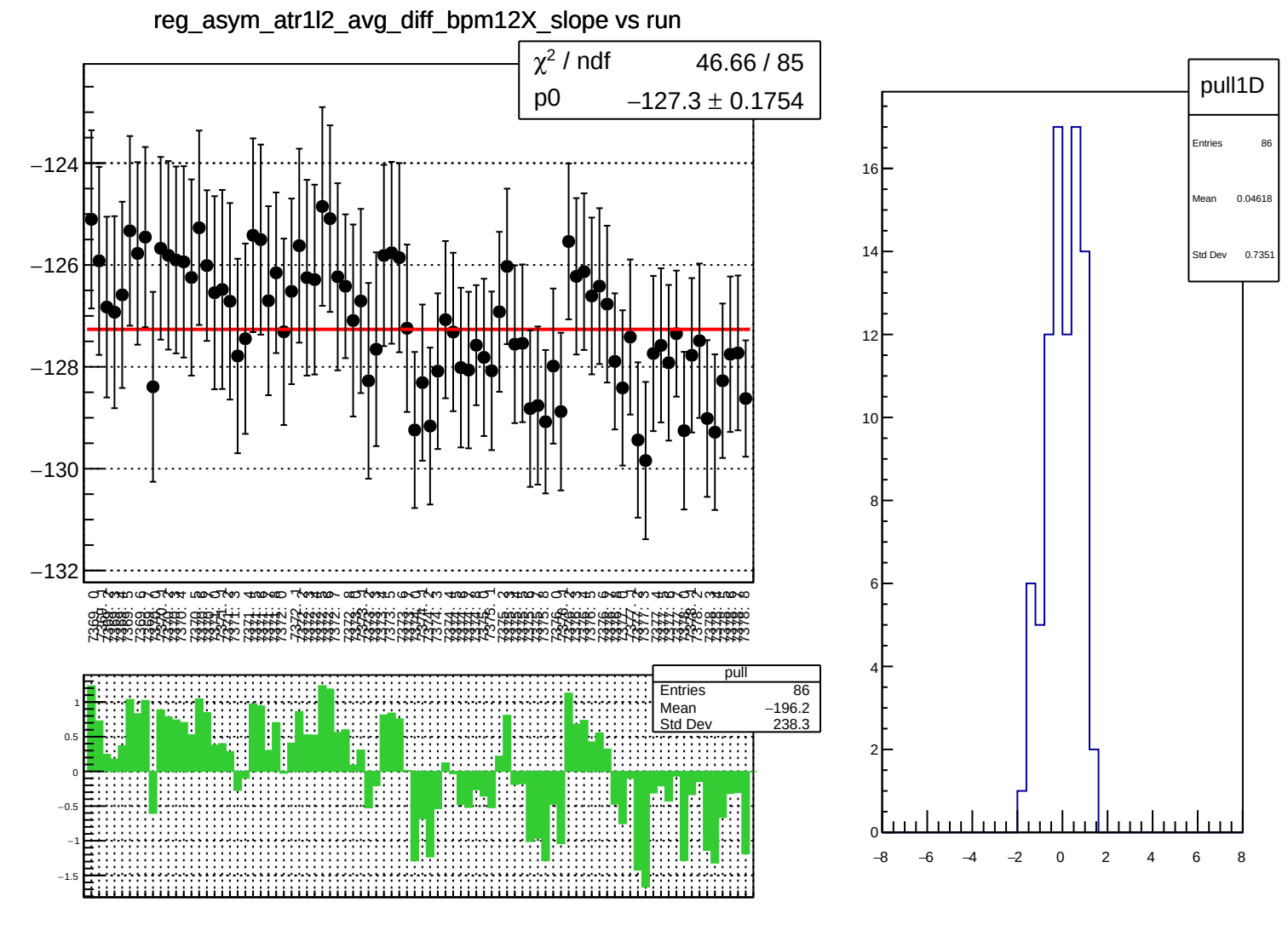

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.03 / 85
p0 −18.8 ± 3.551
pull
Entries 86
Mean −161.7
Std Dev 198.5

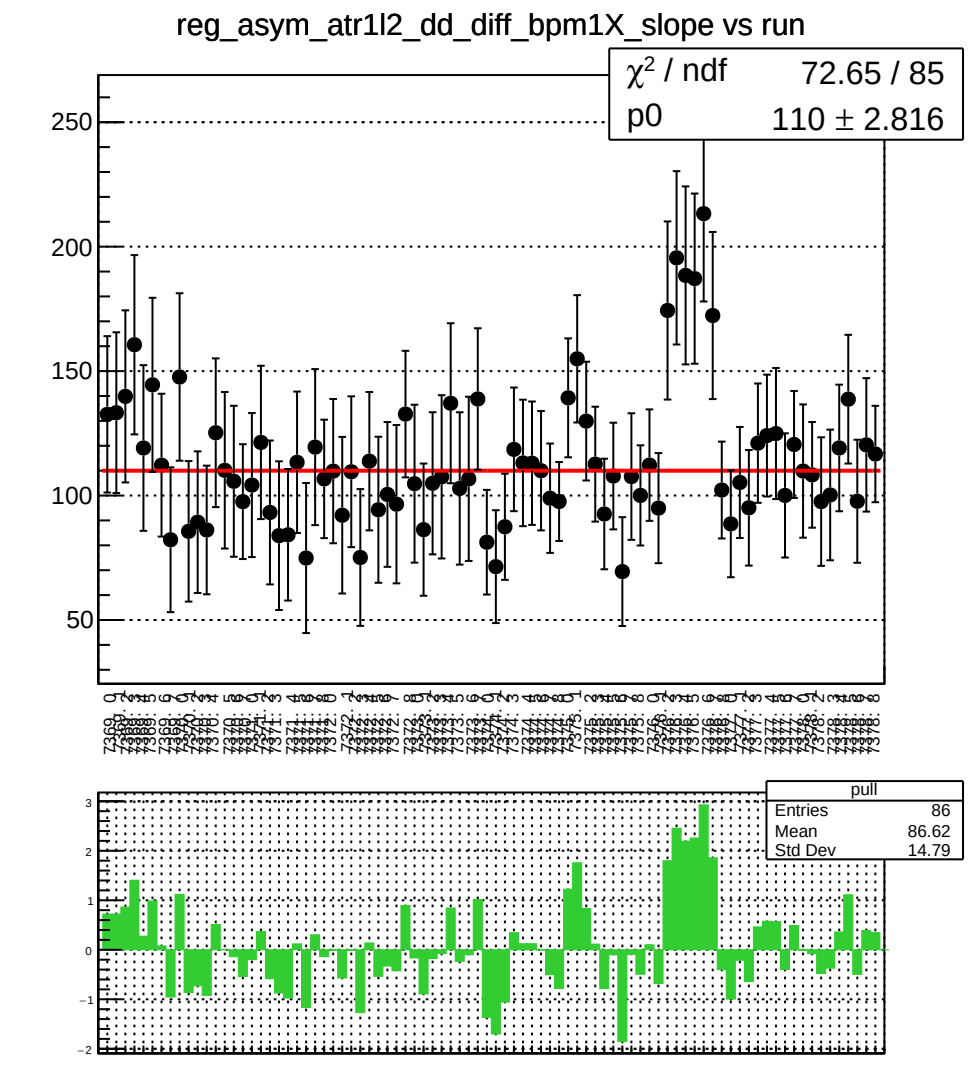

pull1D
Entries 86
Mean −0.01077
Std Dev 0.6006

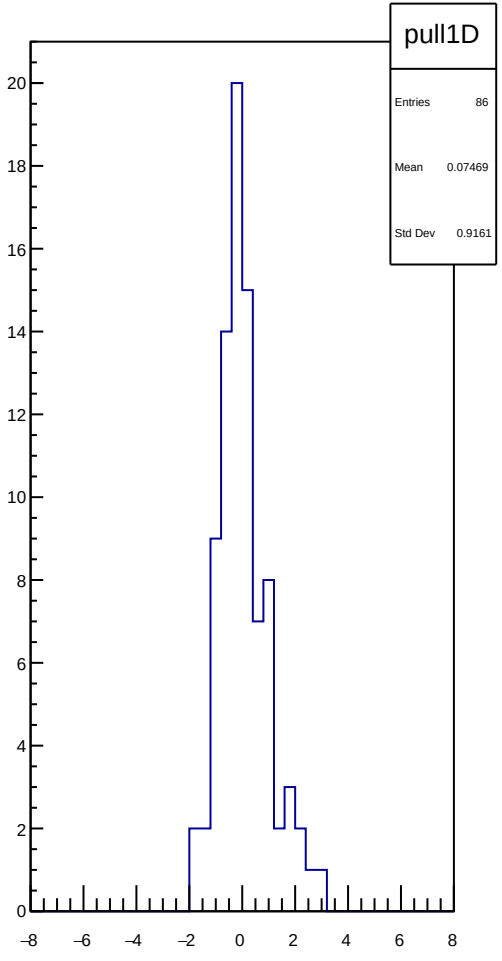

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.07 / 85
p0 106.1 ± 3.344
250
200
150
100
50
pull
Entries 86
Mean 89.74
Std Dev 1.758
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

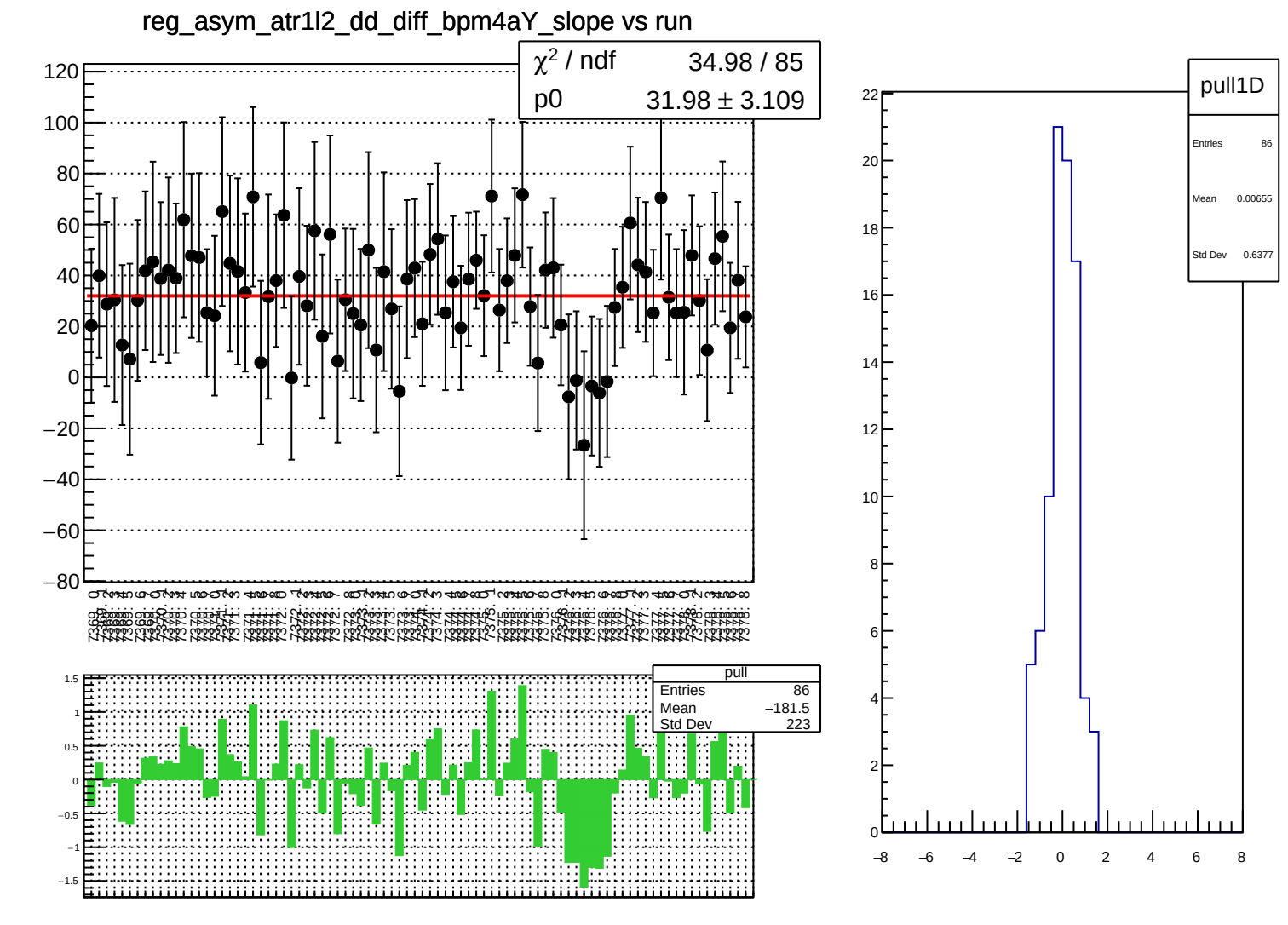

pull1D
Entries 86
Mean 0.07675
Std Dev 0.8597
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

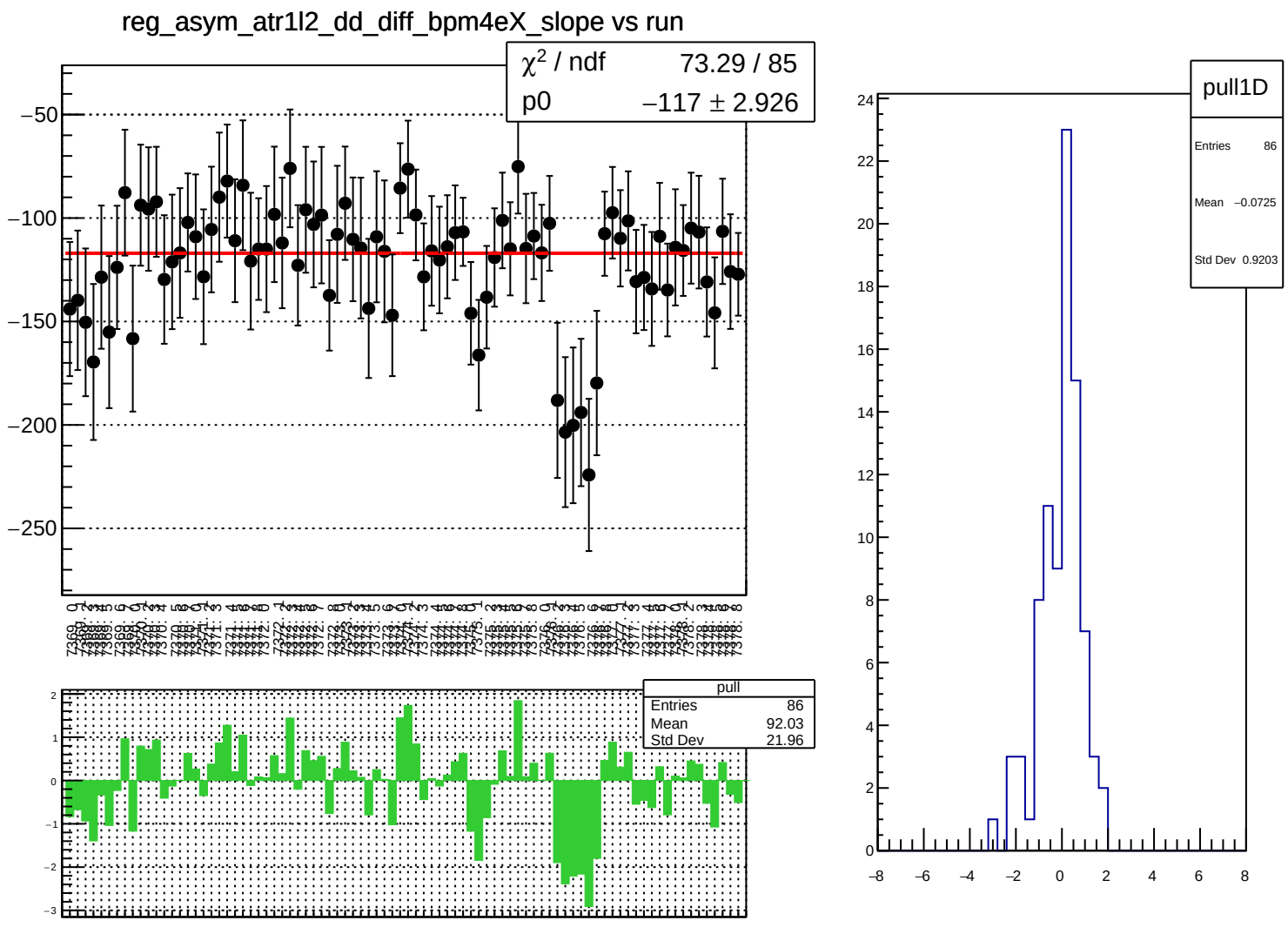

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.57 / 85
p0 74.55 ± 3.786
pull
Entries 86
Mean −257.2
Std Dev 296.3
pull1D
Entries 86
Mean 0.01202
Std Dev 0.596

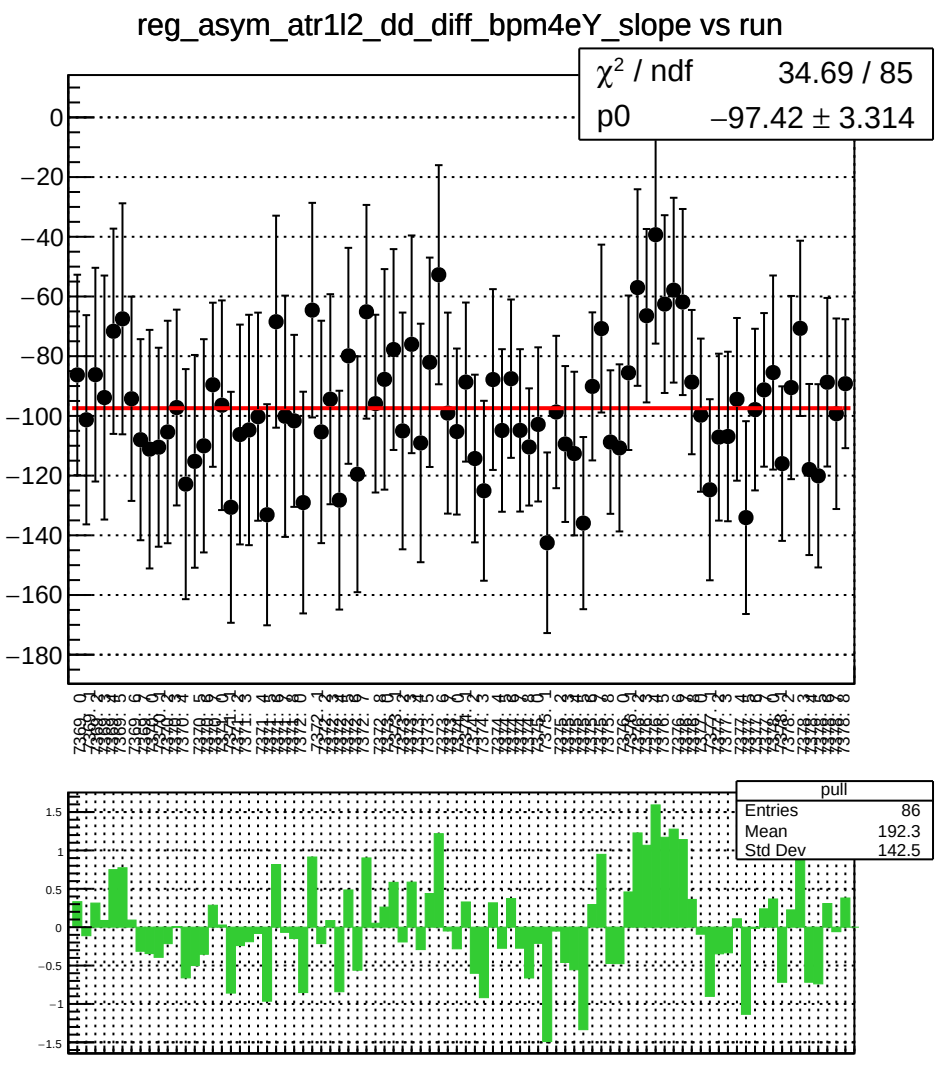

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 46.66 / 85
p0 −127.3 ± 0.1754
−124
−126
−128
−130
−132
pull
Entries 86
Mean −196.2
Std Dev 238.3
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean 0.04618
Std Dev 0.7351
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

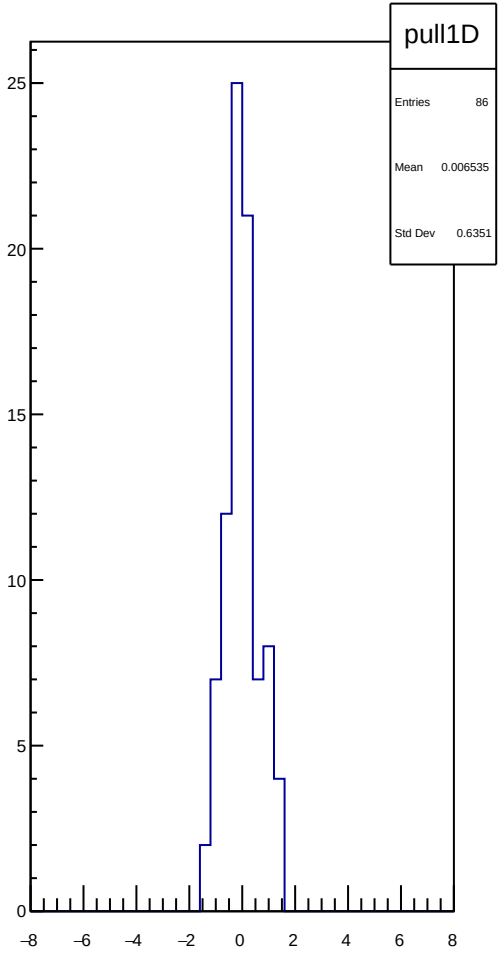

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 72.65 / 85
p0 110 ± 2.816
pull
Entries 86
Mean 86.62
Std Dev 14.79

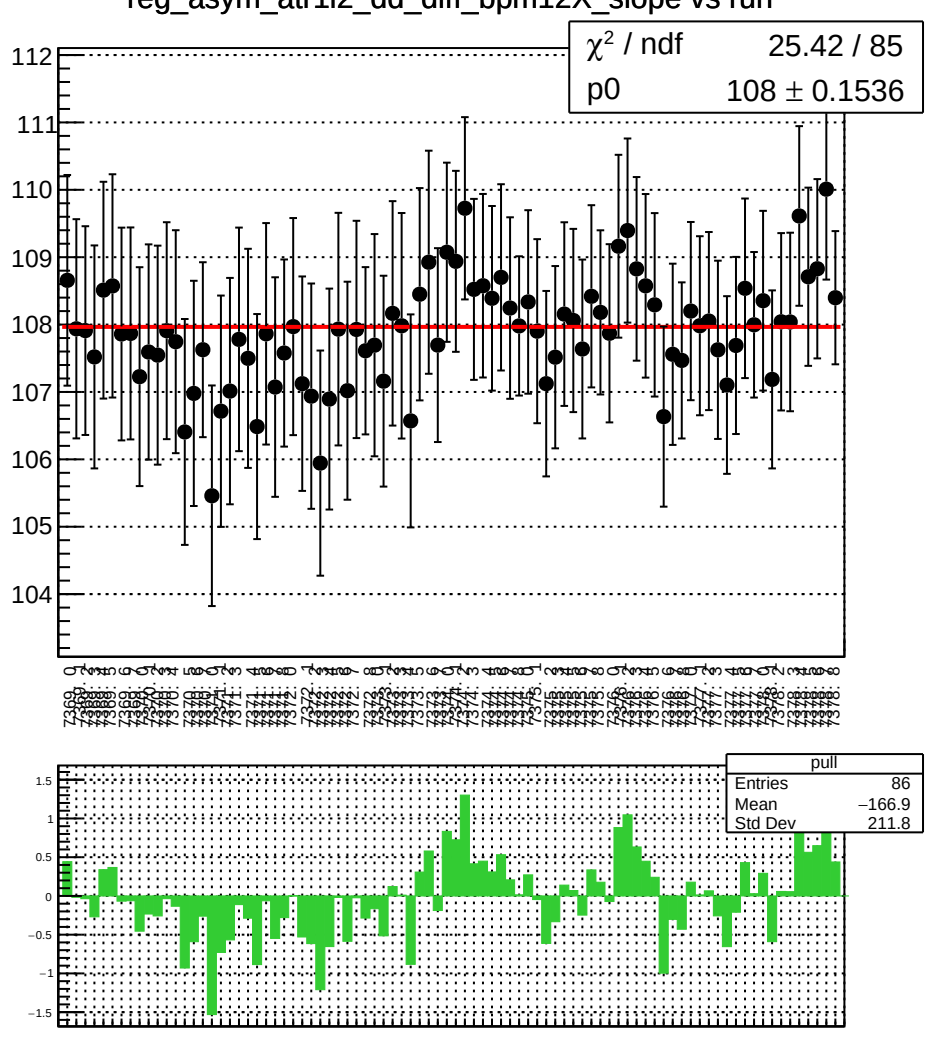

pull1D
Entries 86
Mean 0.07469
Std Dev 0.9161

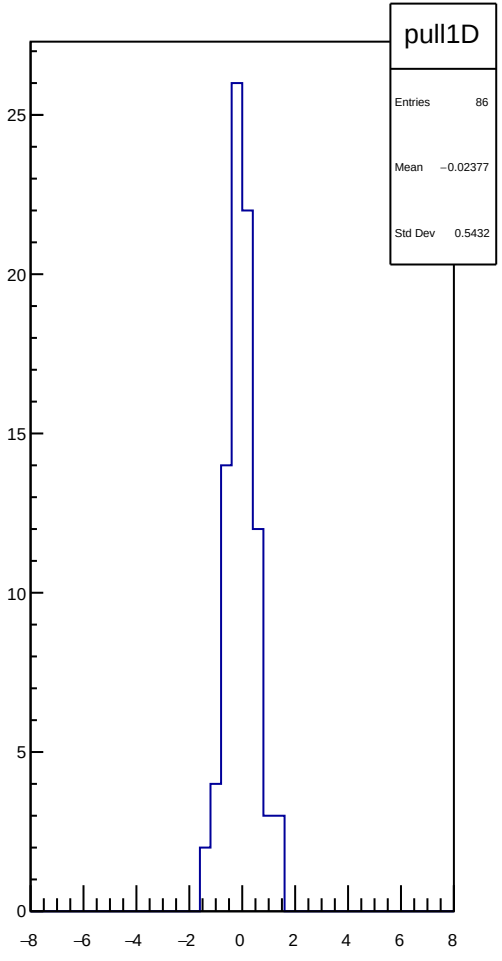

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.98 / 85
p0 31.98 ± 3.109
pull
Entries 86
Mean −181.5
Std Dev 223
pull1D
Entries 86
Mean 0.00655
Std Dev 0.6377

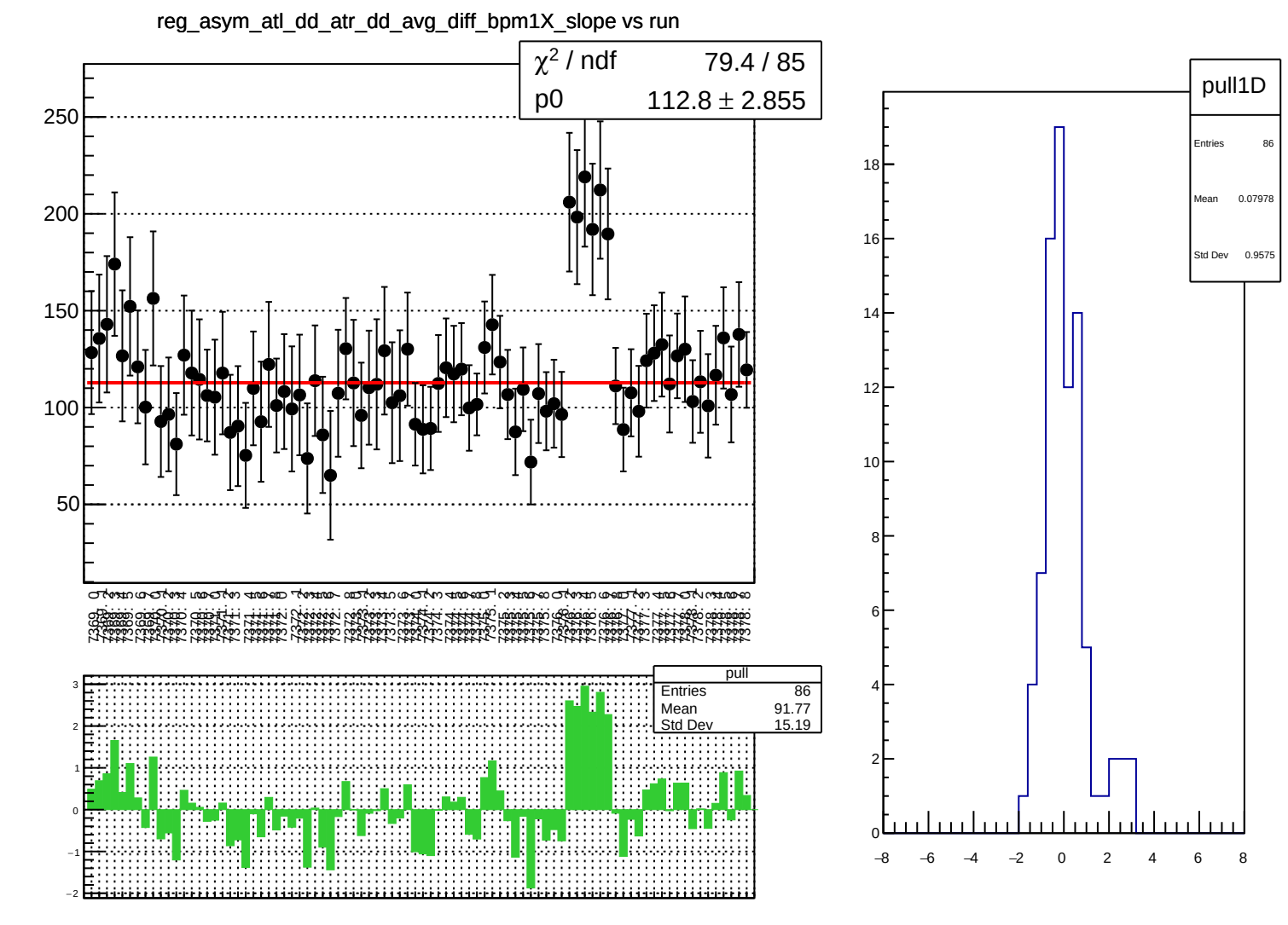

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.29 / 85
p0 −117 ± 2.926
−50
−100
−150
−200
−250
pull
Entries 86
Mean 92.03
Std Dev 21.96
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.0725
Std Dev 0.9203
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

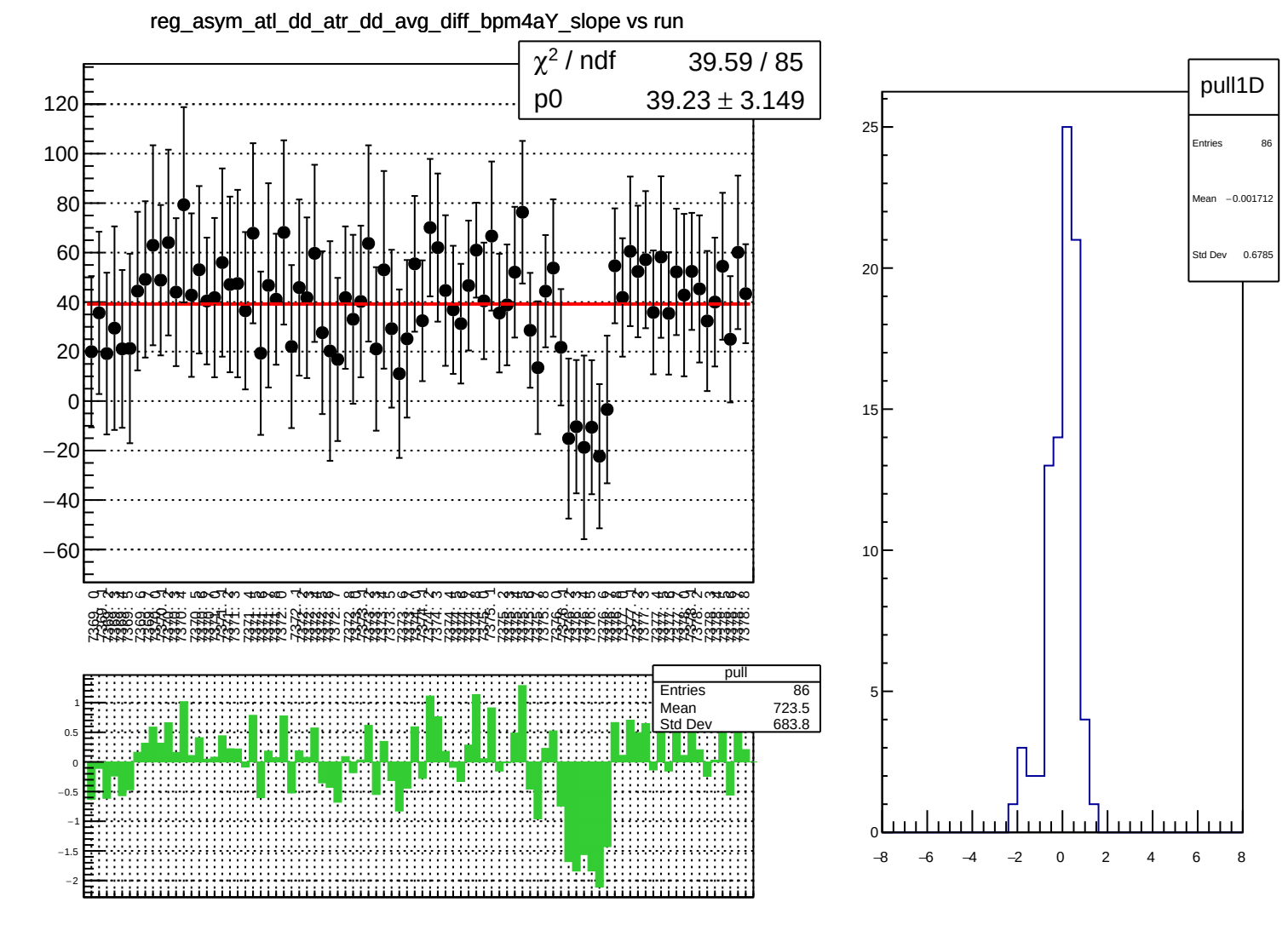

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.69 / 85
p0 −97.42 ± 3.314
pull
Entries 86
Mean 192.3
Std Dev 142.5

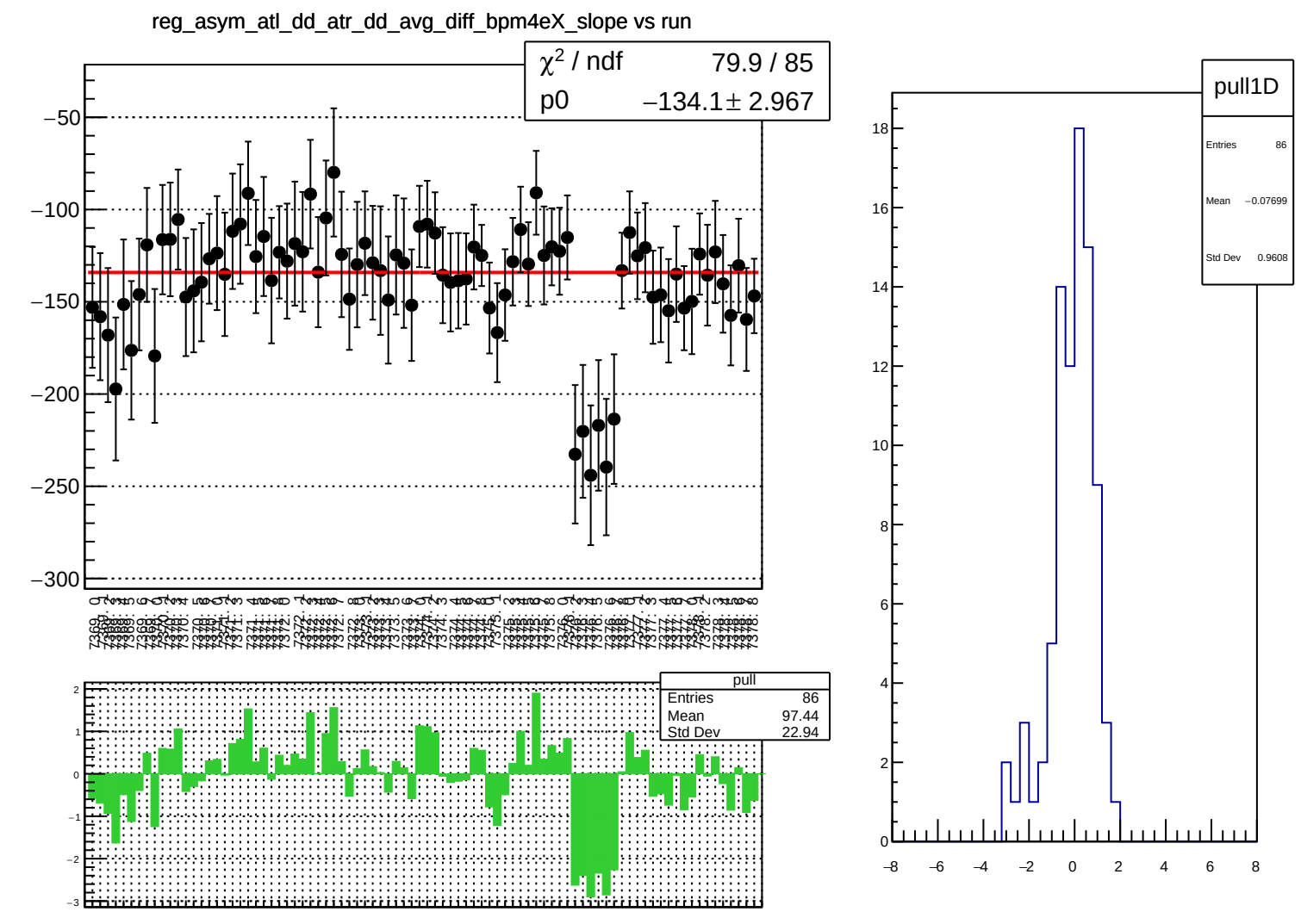

pull1D
Entries 86
Mean 0.006535
Std Dev 0.6351

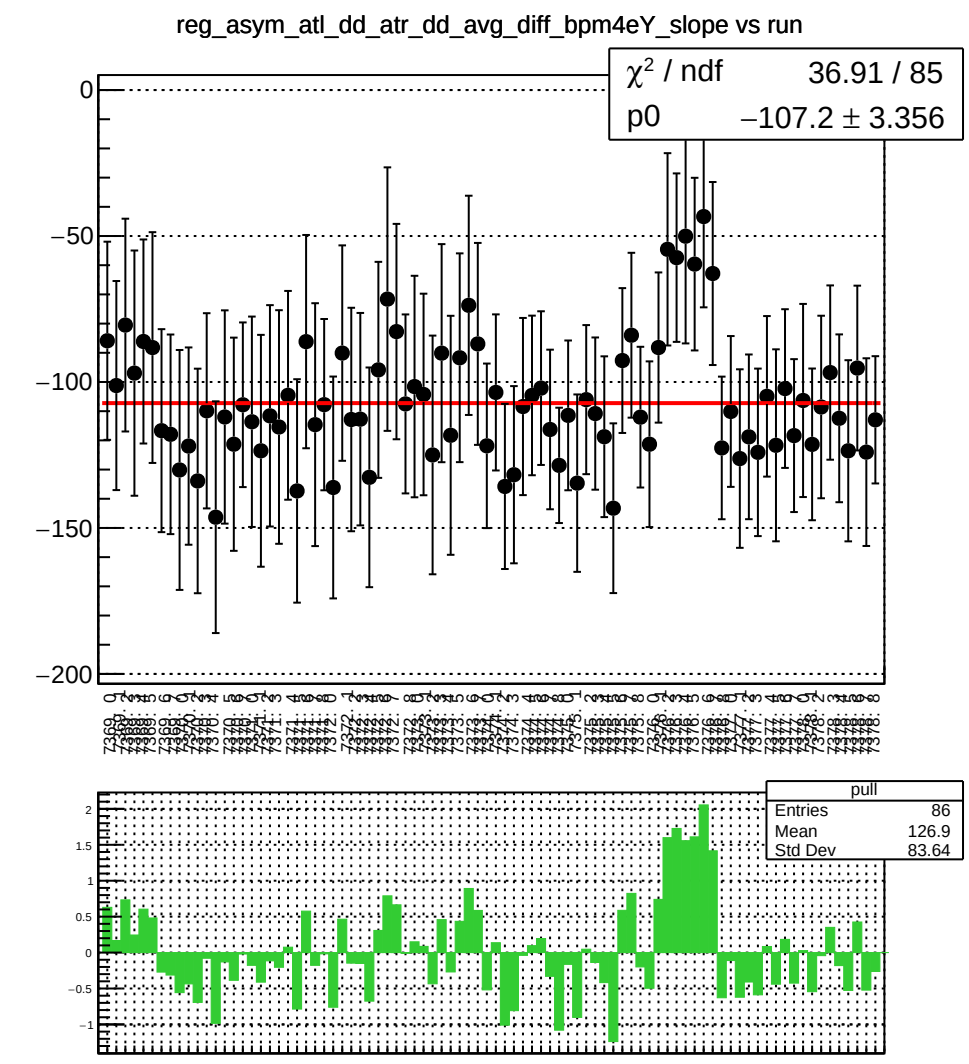

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 25.42 / 85
p0 108 ± 0.1536
pull
Entries 86
Mean −166.9
Std Dev 211.8

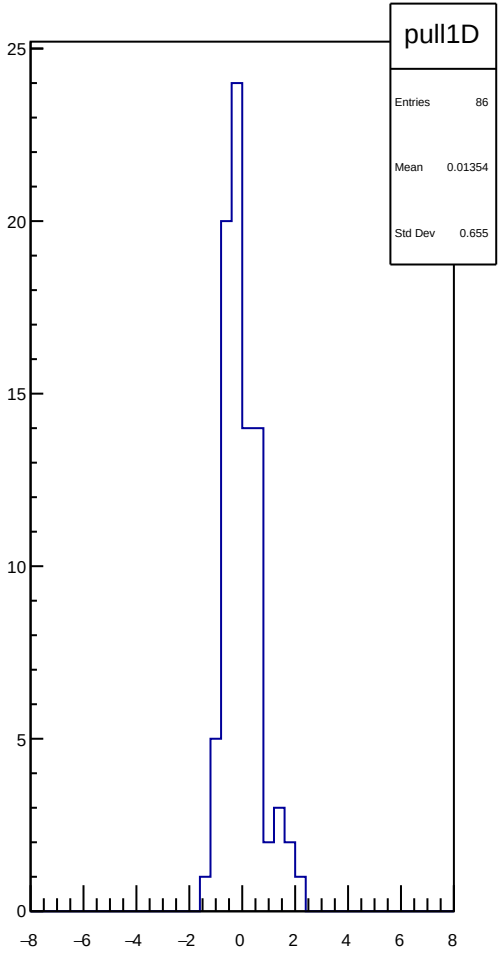

pull1D
Entries 86
Mean −0.02377
Std Dev 0.5432

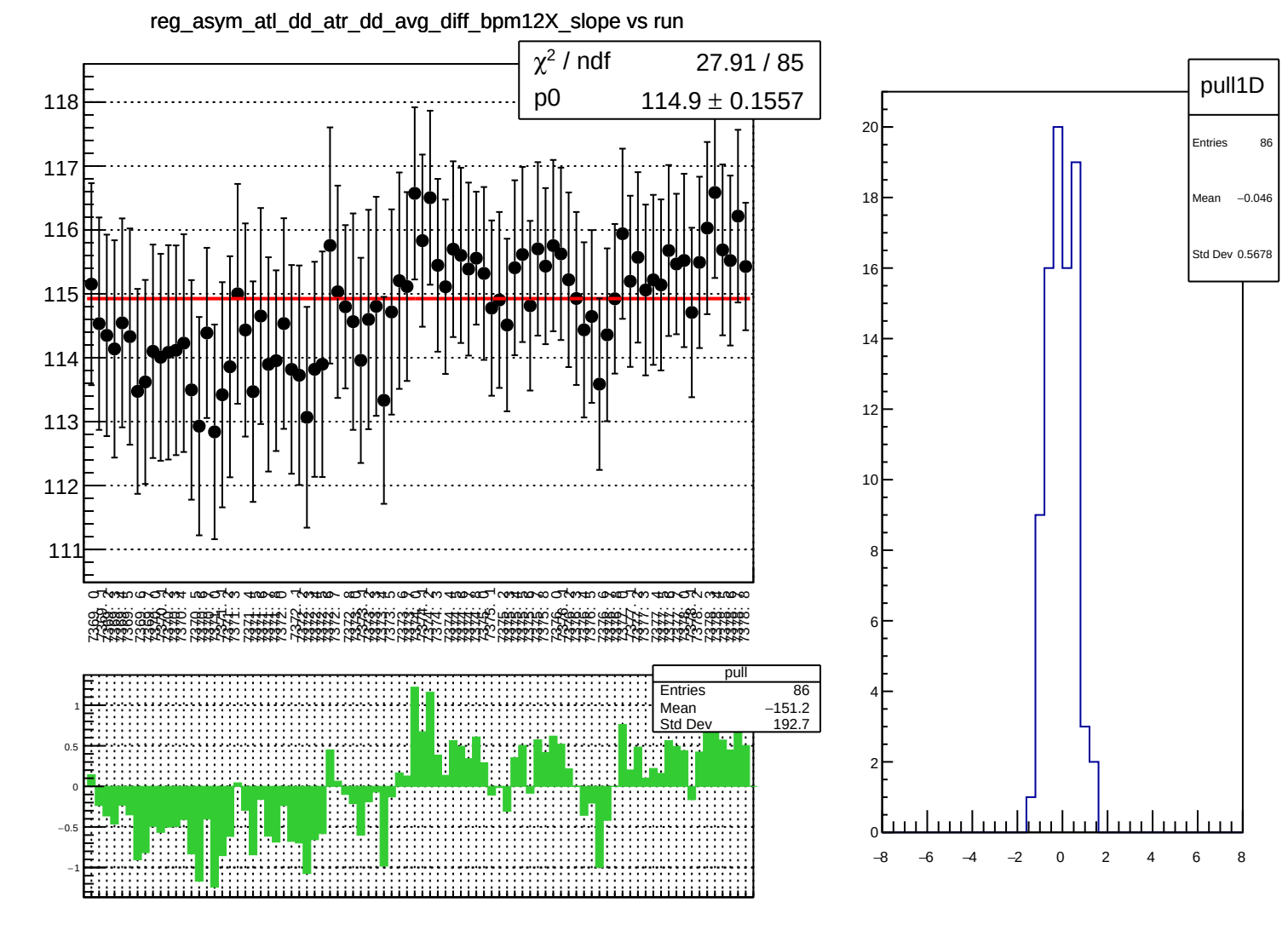

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 79.4 / 85
p0 112.8 ± 2.855
250
200
150
100
50
pull
Entries 86
Mean 91.77
Std Dev 15.19
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.07978
Std Dev 0.9575
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

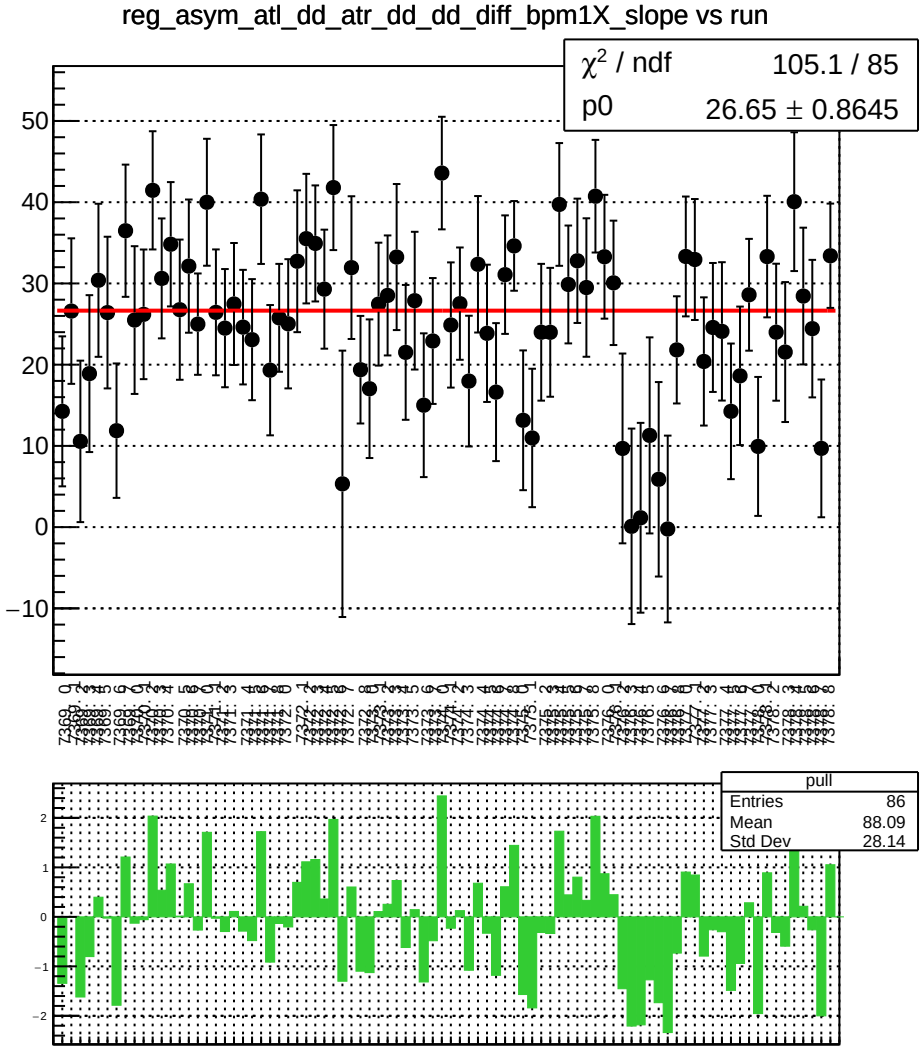

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 39.59 / 85
p0 39.23 ± 3.149
pull
Entries 86
Mean 723.5
Std Dev 683.8
pull1D
Entries 86
Mean −0.001712
Std Dev 0.6785

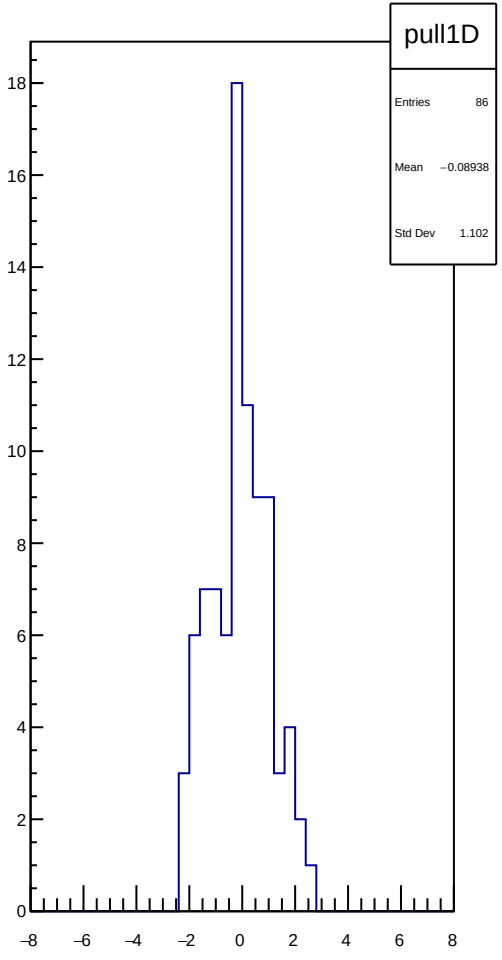

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 79.9 / 85
p0 −134.1± 2.967
pull
Entries 86
Mean 97.44
Std Dev 22.94
pull1D
Entries 86
Mean −0.07699
Std Dev 0.9608

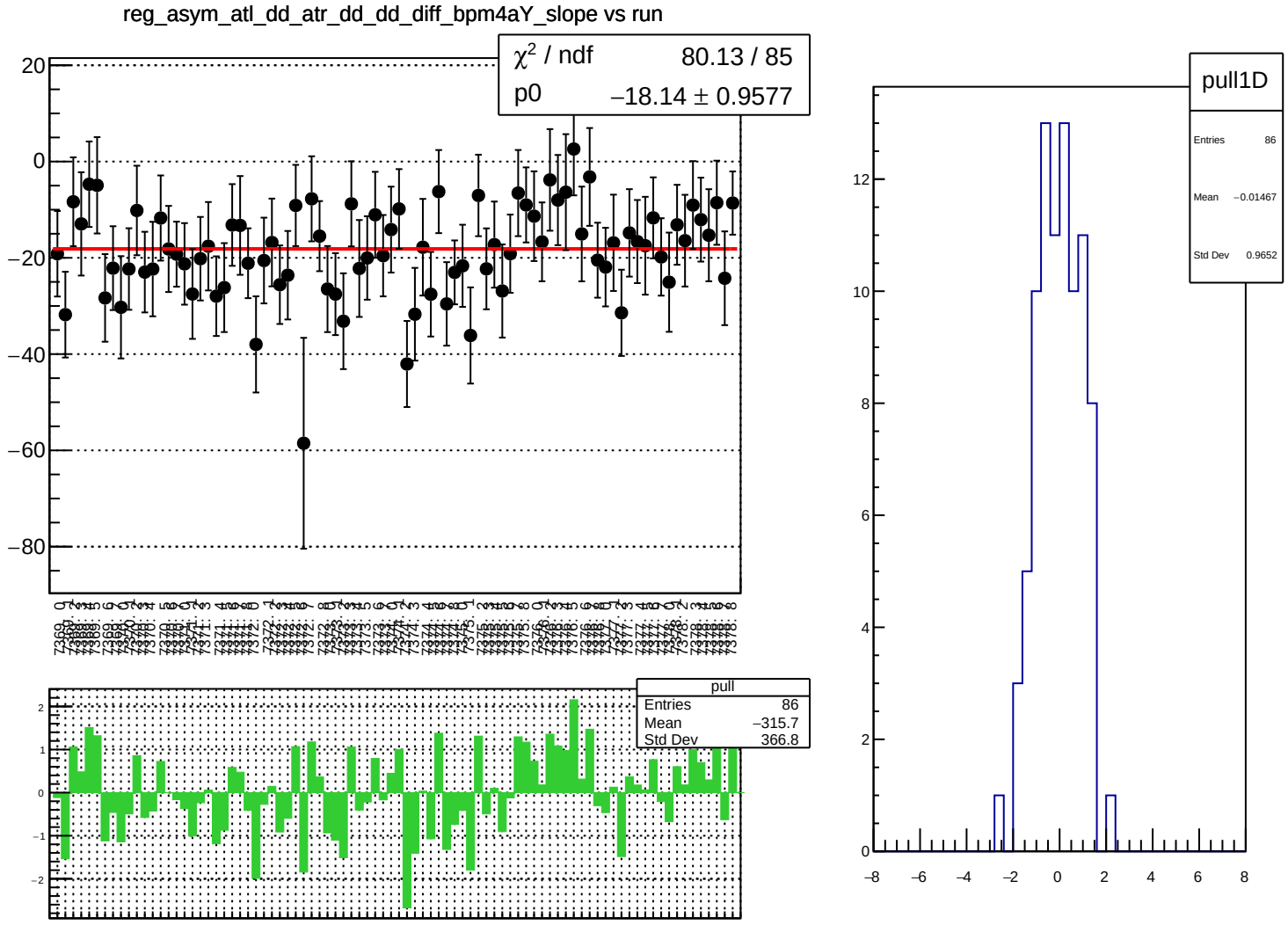

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.91 / 85
p0 −107.2 ± 3.356
pull
Entries 86
Mean 126.9
Std Dev 83.64

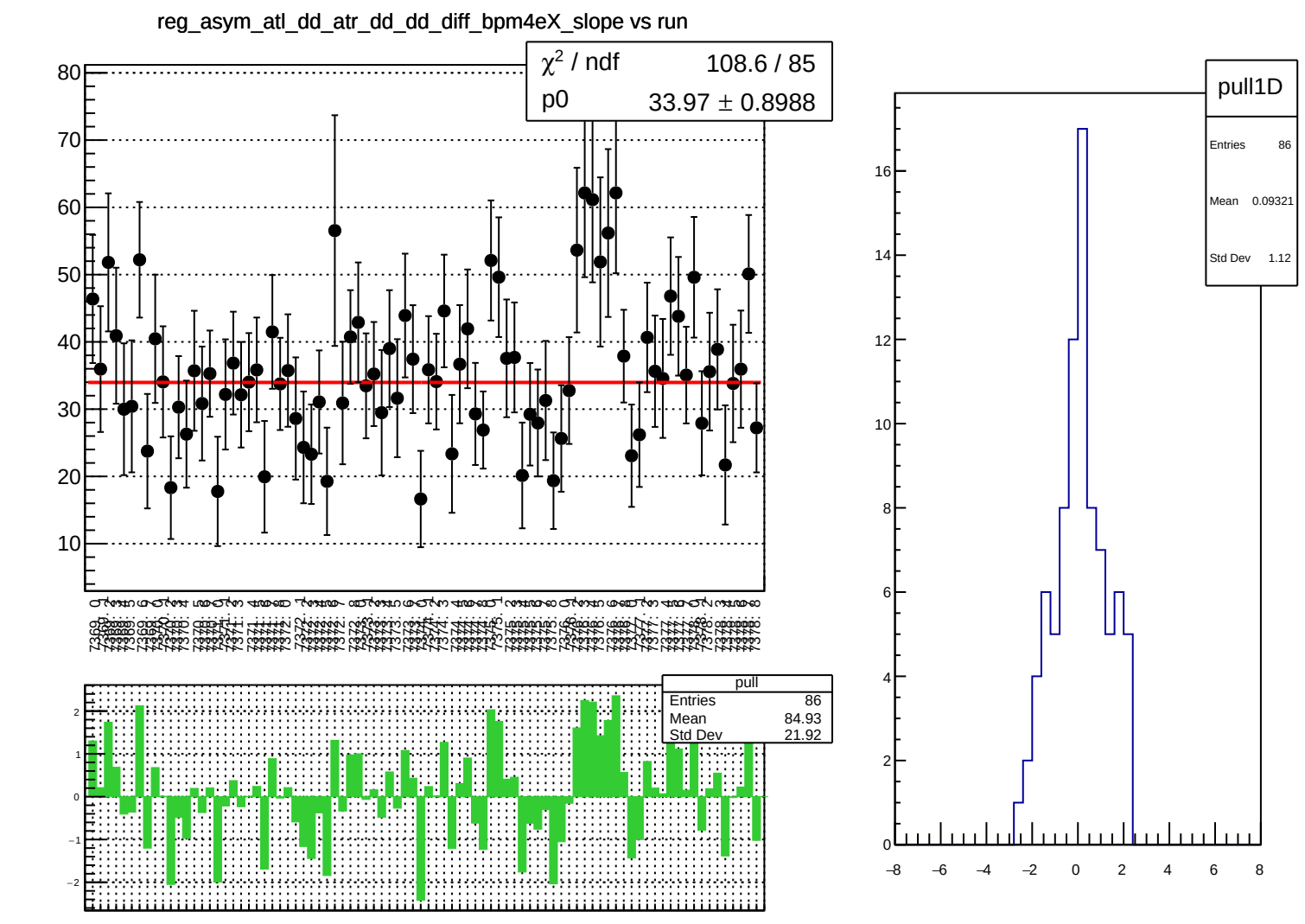

pull1D
Entries 86
Mean 0.01354
Std Dev 0.655

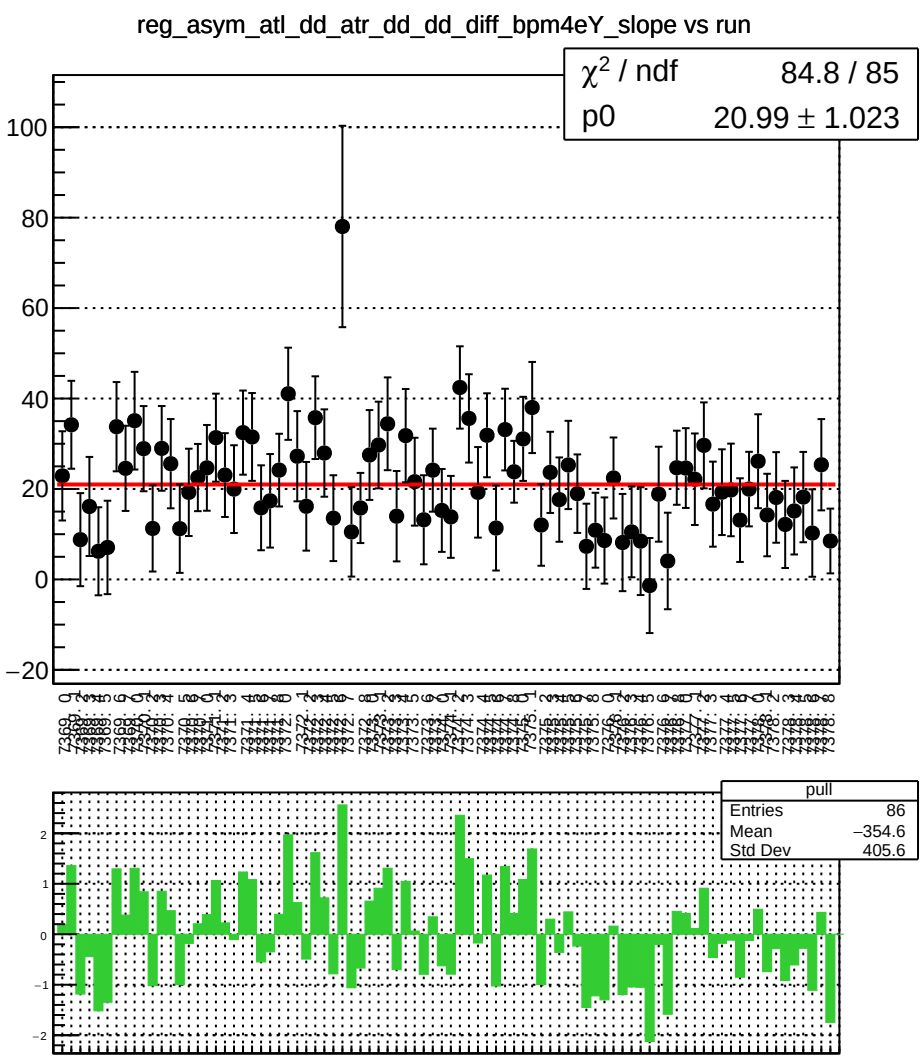

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 27.91 / 85
p0 114.9 ± 0.1557
pull
Entries 86
Mean −151.2
Std Dev 192.7
pull1D
Entries 86
Mean −0.046
Std Dev 0.5678

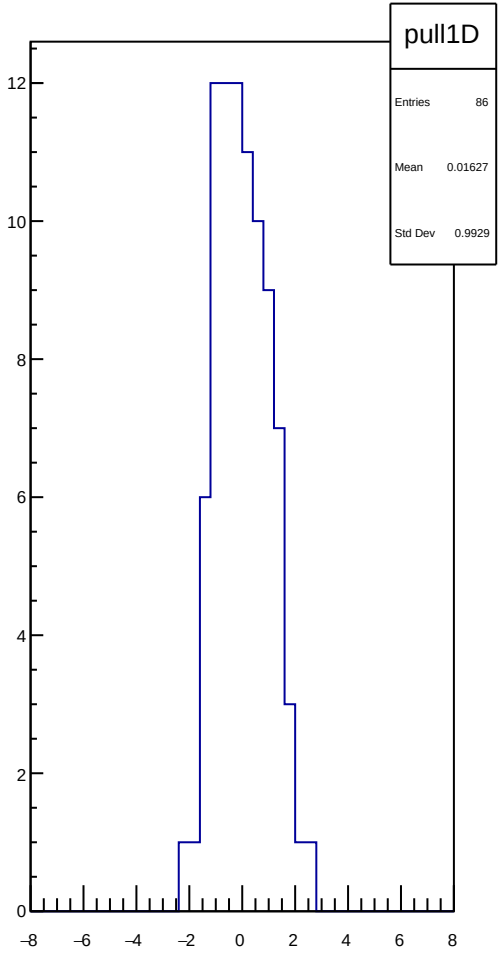

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 105.1 / 85
p0 26.65 ± 0.8645
pull
Entries 86
Mean 88.09
Std Dev 28.14

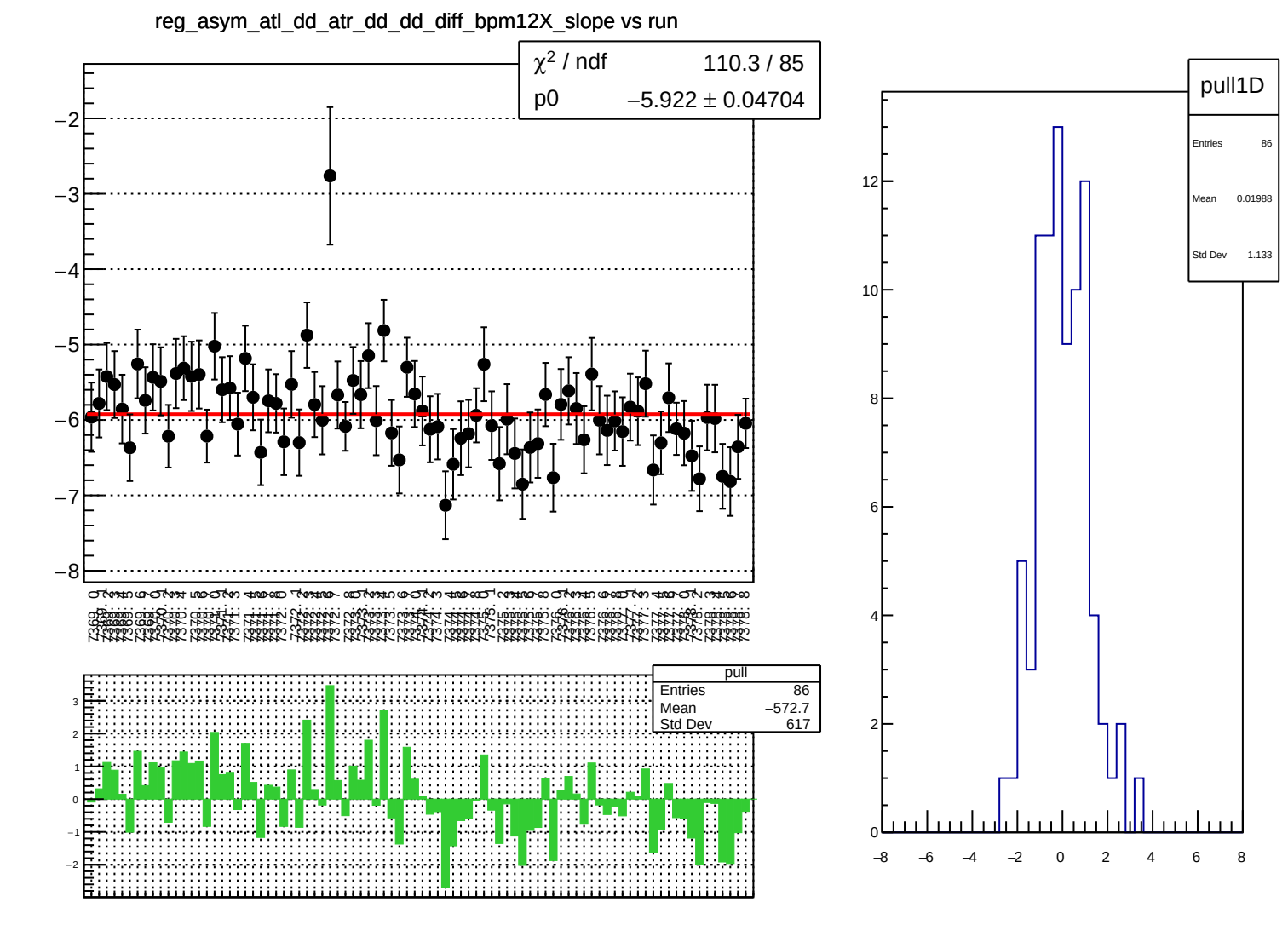

pull1D
Entries 86
Mean −0.08938
Std Dev 1.102

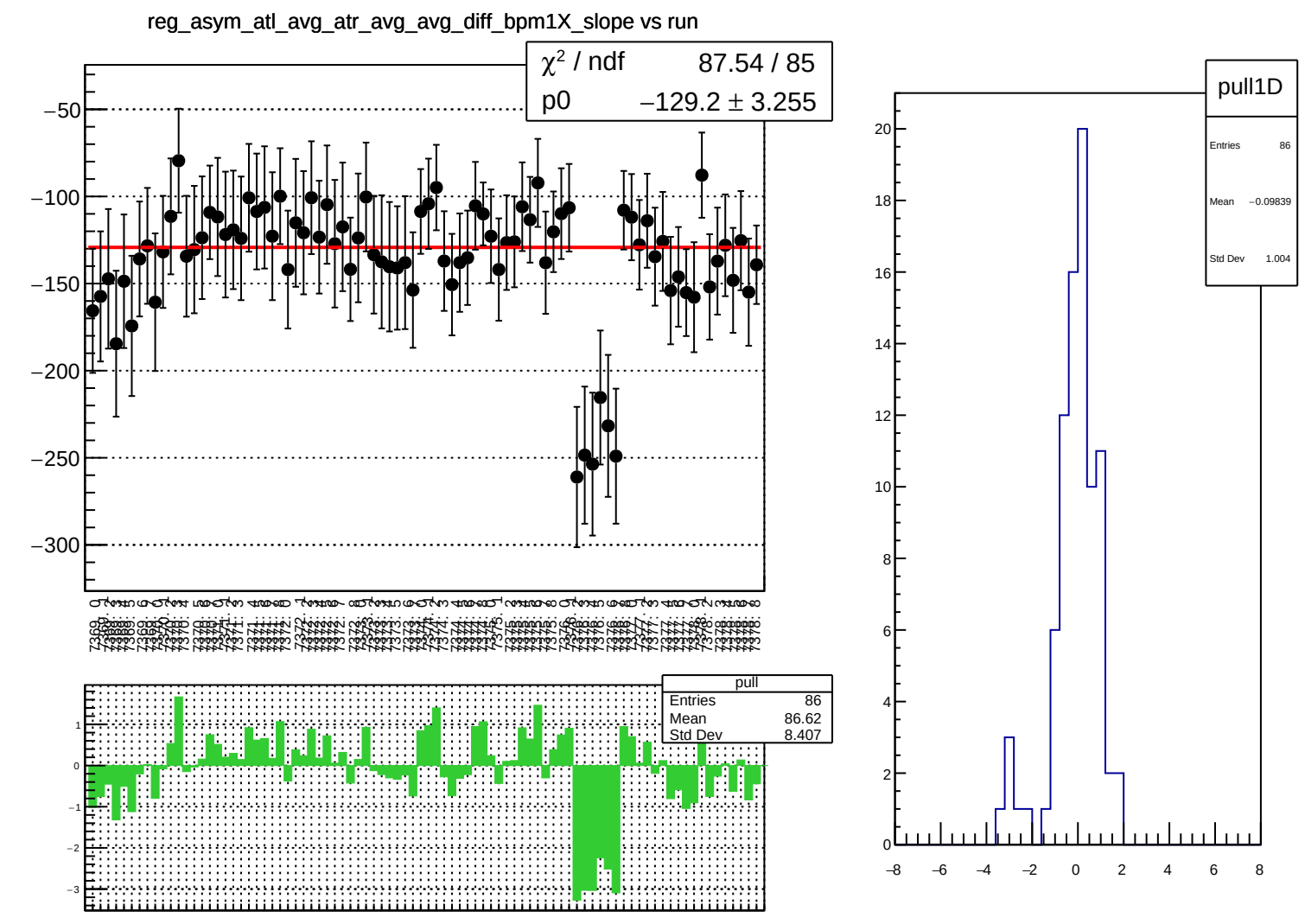

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.13 / 85
p0 −18.14 ± 0.9577
pull
Entries 86
Mean −315.7
Std Dev 366.8
pull1D
Entries 86
Mean −0.01467
Std Dev 0.9652

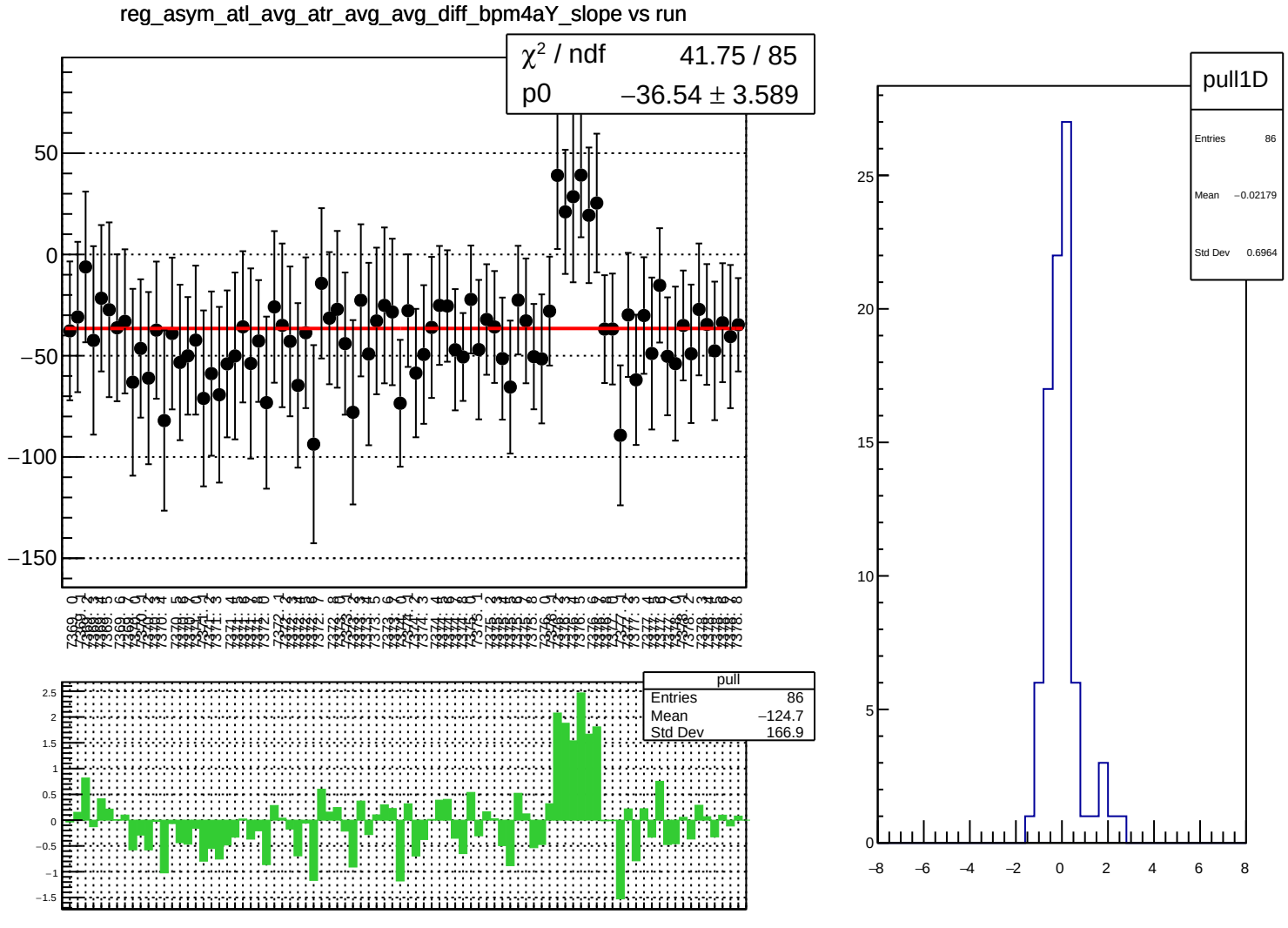

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 108.6 / 85
p0 33.97 ± 0.8988
pull
Entries 86
Mean 84.93
Std Dev 21.92
pull1D
Entries 86
Mean 0.09321
Std Dev 1.12

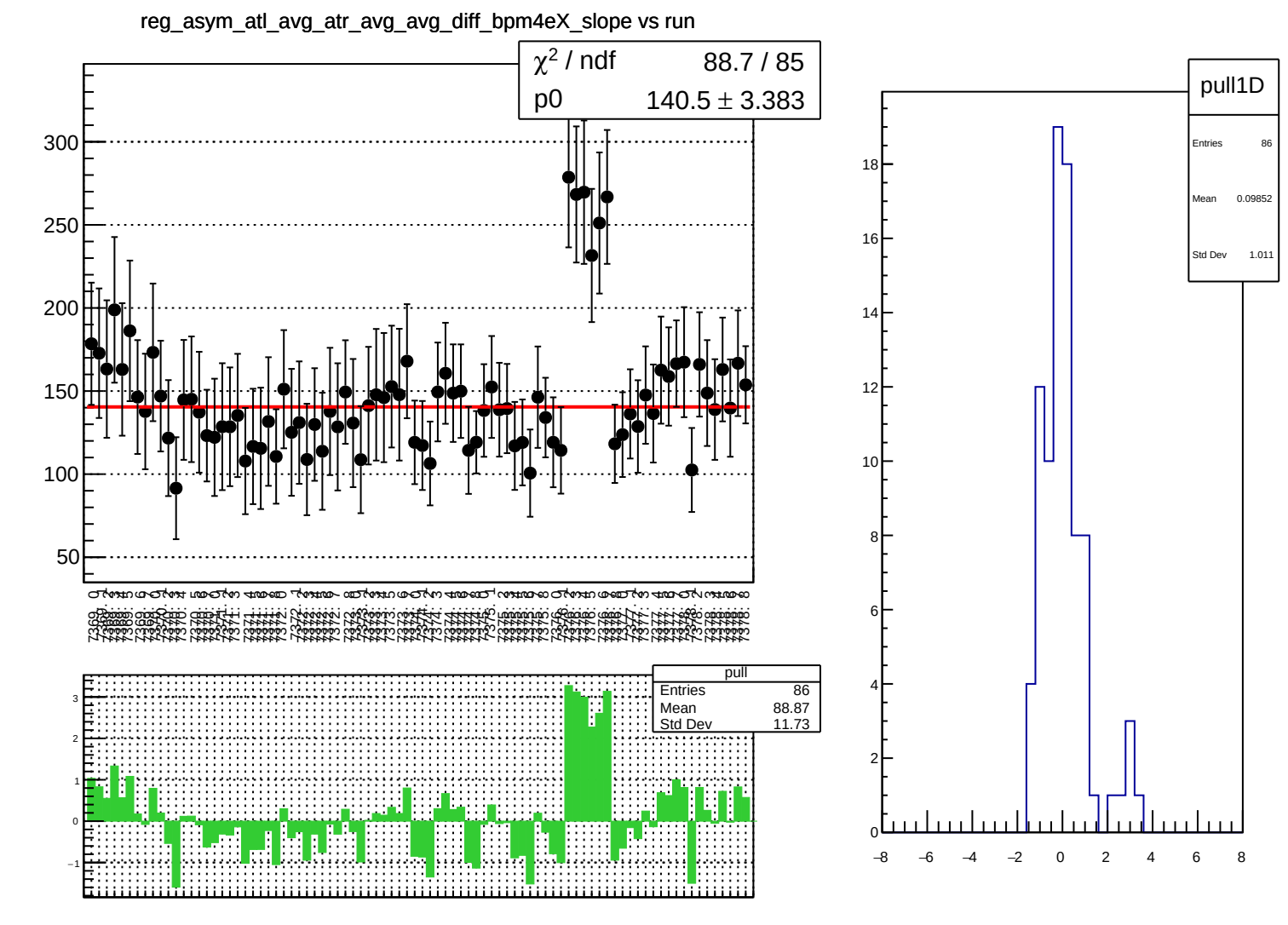

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.8 / 85
p0 20.99 ± 1.023
pull
Entries 86
Mean −354.6
Std Dev 405.6

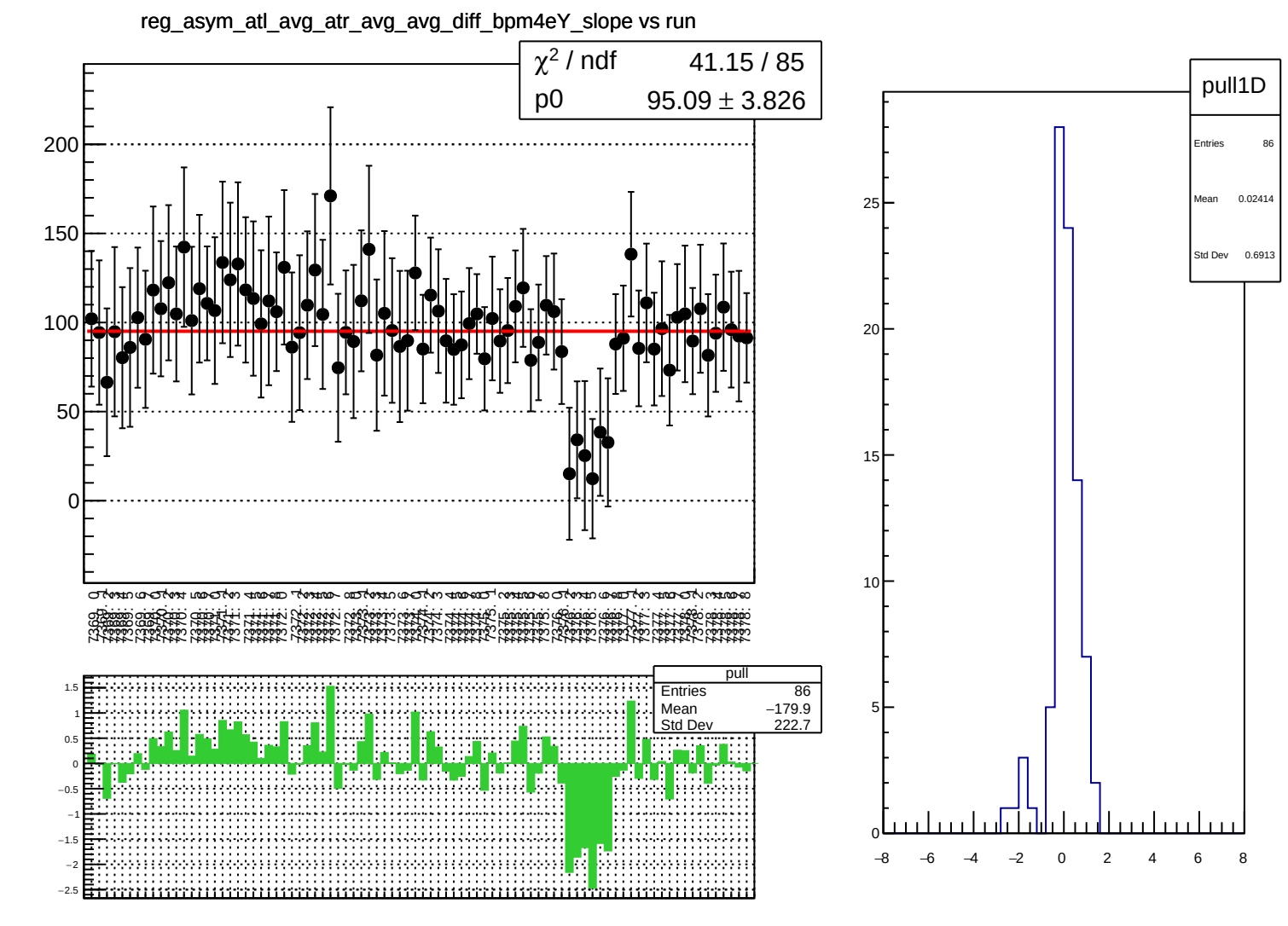

pull1D
Entries 86
Mean 0.01627
Std Dev 0.9929

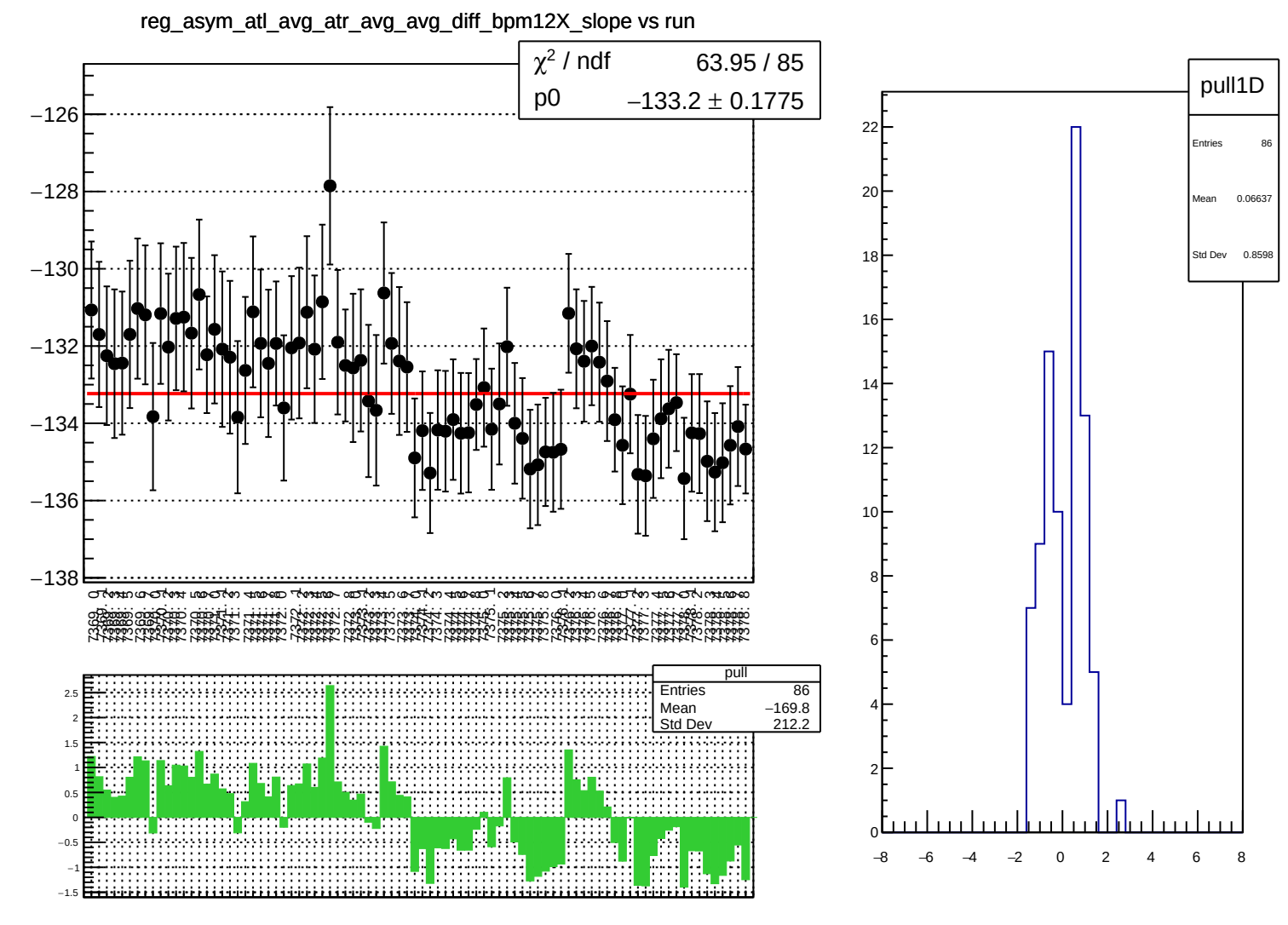

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 110.3 / 85
p0 −5.922 ± 0.04704
pull
Entries 86
Mean −572.7
Std Dev 617
pull1D
Entries 86
Mean 0.01988
Std Dev 1.133

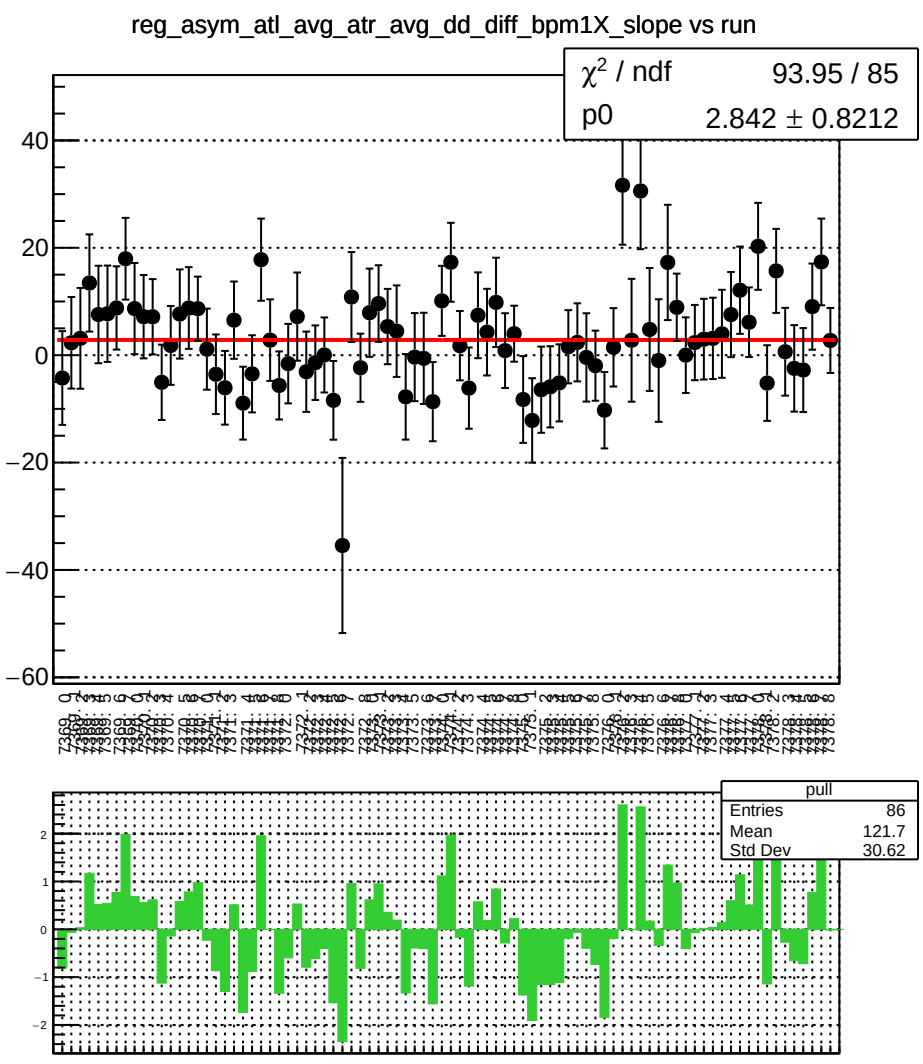

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 87.54 / 85
p0 −129.2 ± 3.255
pull
Entries 86
Mean 86.62
Std Dev 8.407
pull1D
Entries 86
Mean −0.09839
Std Dev 1.004

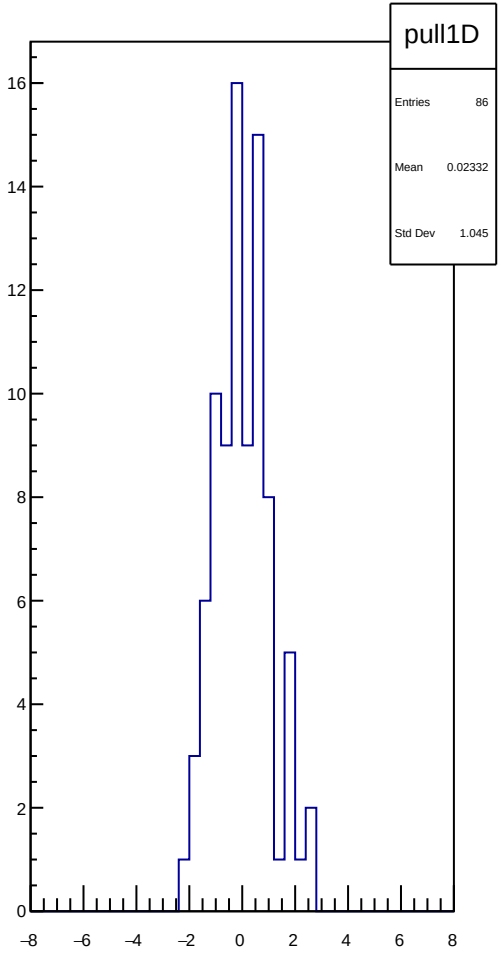

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.75 / 85
p0 −36.54 ± 3.589
pull
Entries 86
Mean −124.7
Std Dev 166.9
pull1D
Entries 86
Mean −0.02179
Std Dev 0.6964

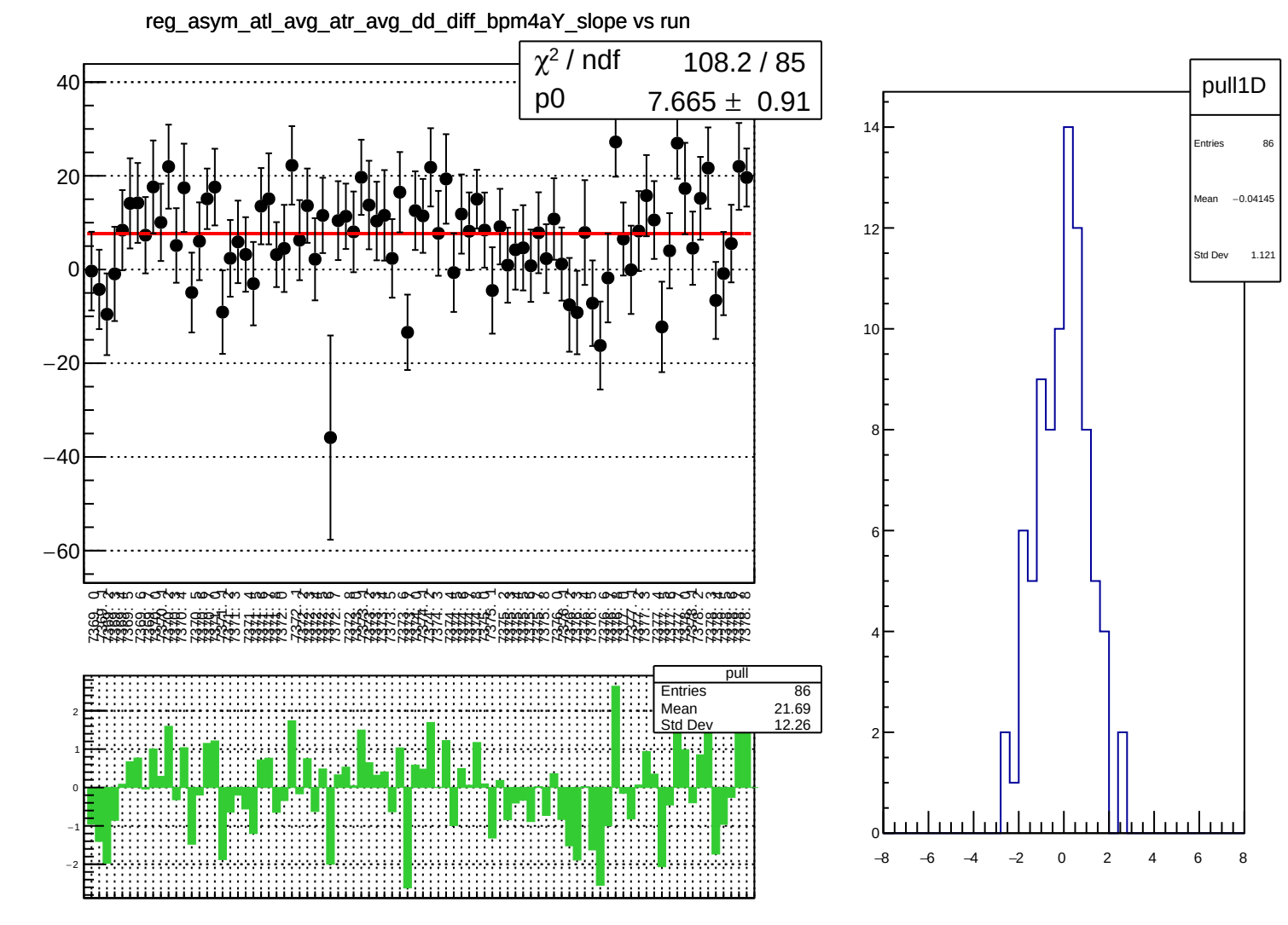

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 88.7 / 85
p0 140.5 ± 3.383
pull
Entries 86
Mean 88.87
Std Dev 11.73
pull1D
Entries 86
Mean 0.09852
Std Dev 1.011

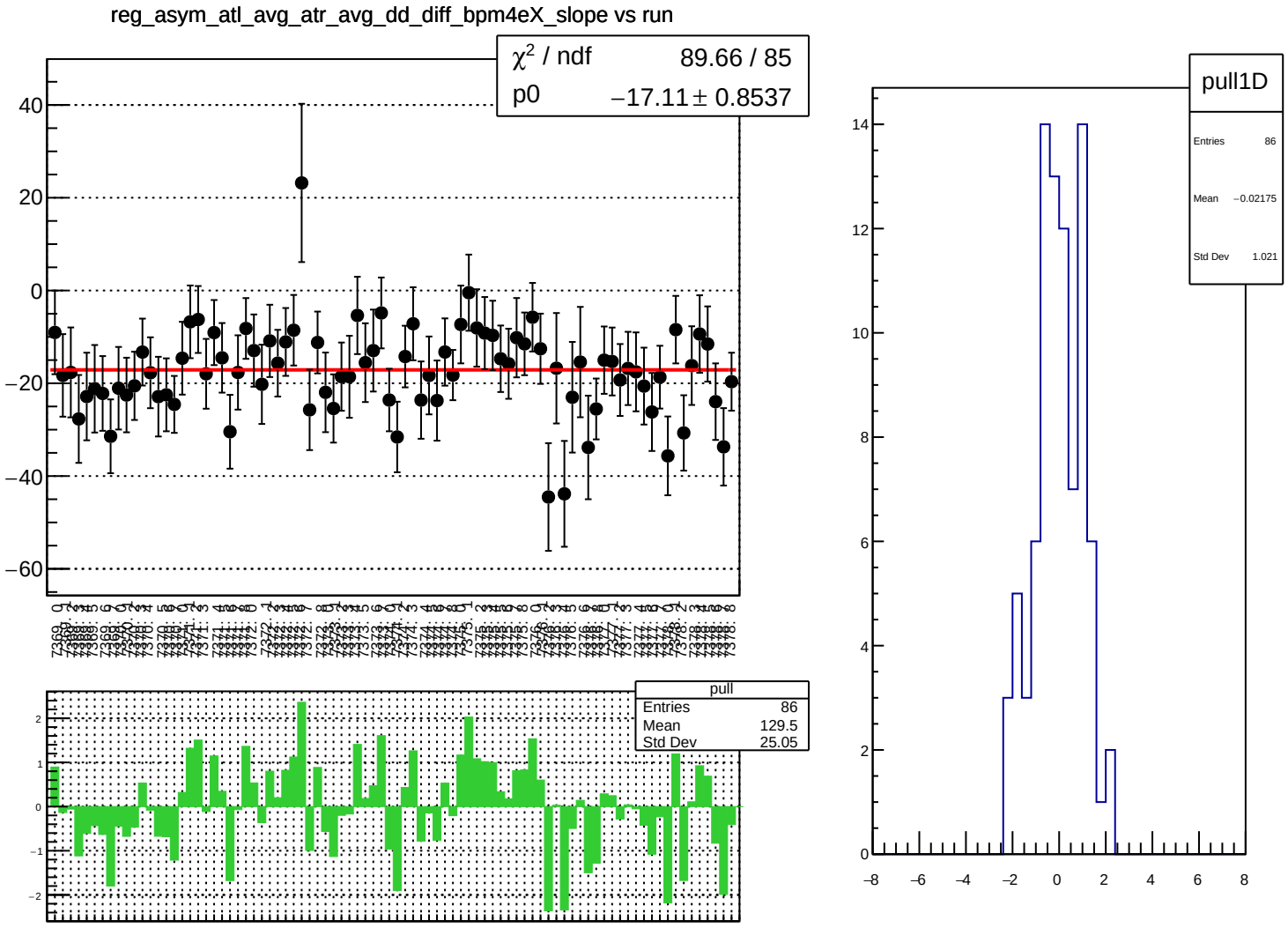

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.15 / 85
p0 95.09 ± 3.826
pull
Entries 86
Mean −179.9
Std Dev 222.7
pull1D
Entries 86
Mean 0.02414
Std Dev 0.6913

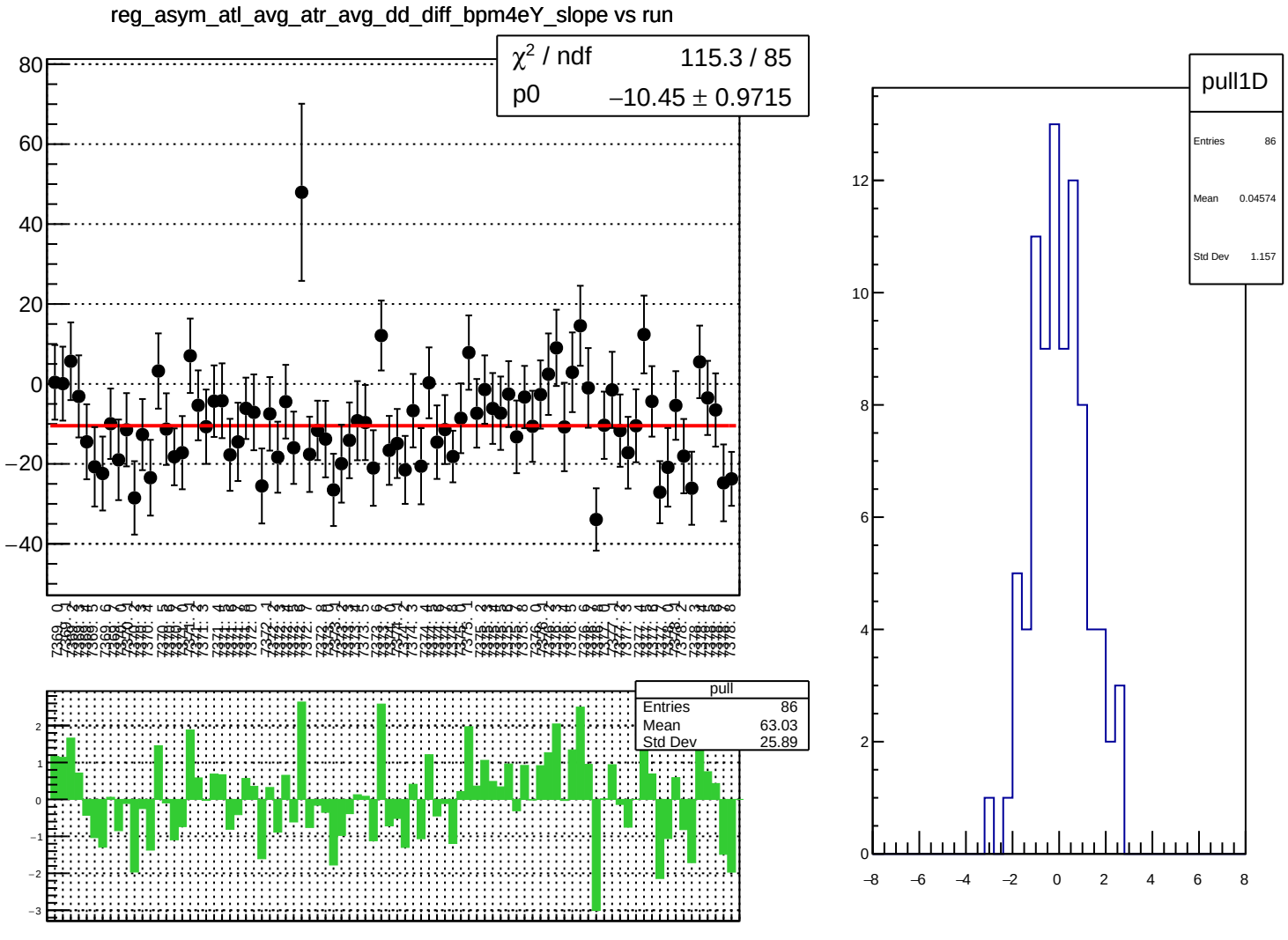

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 63.95 / 85
p0 −133.2 ± 0.1775
pull
Entries 86
Mean −169.8
Std Dev 212.2
pull1D
Entries 86
Mean 0.06637
Std Dev 0.8598

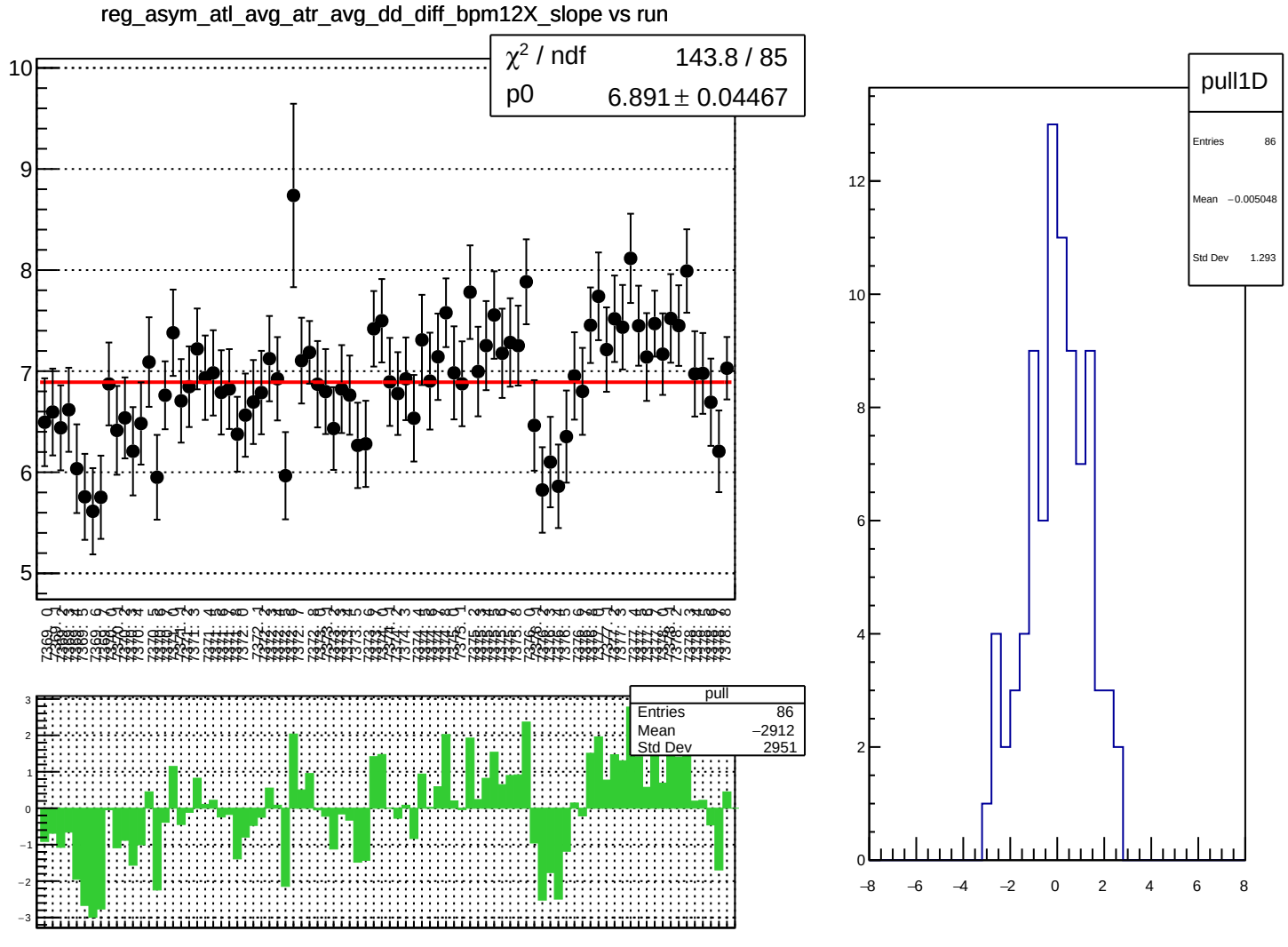

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 93.95 / 85
p0 2.842 ± 0.8212
pull
Entries 86
Mean 121.7
Std Dev 30.62

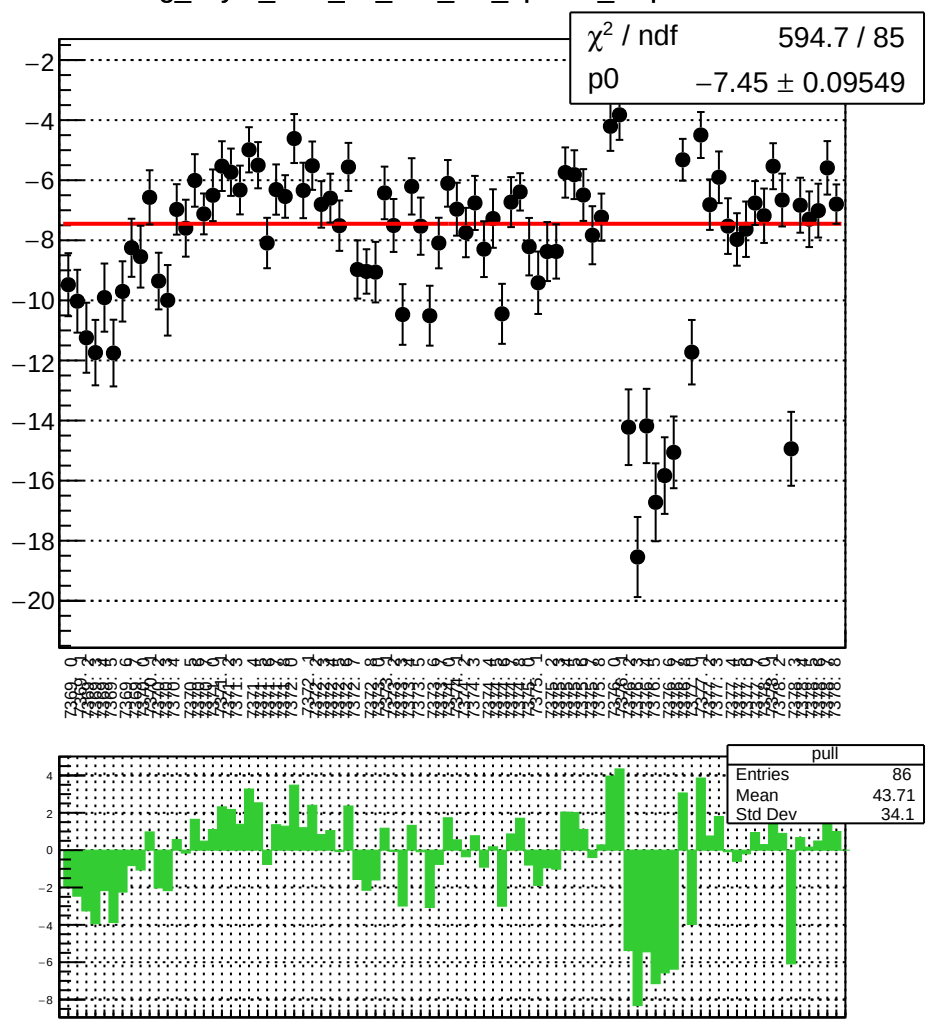

pull1D
Entries 86
Mean 0.02332
Std Dev 1.045

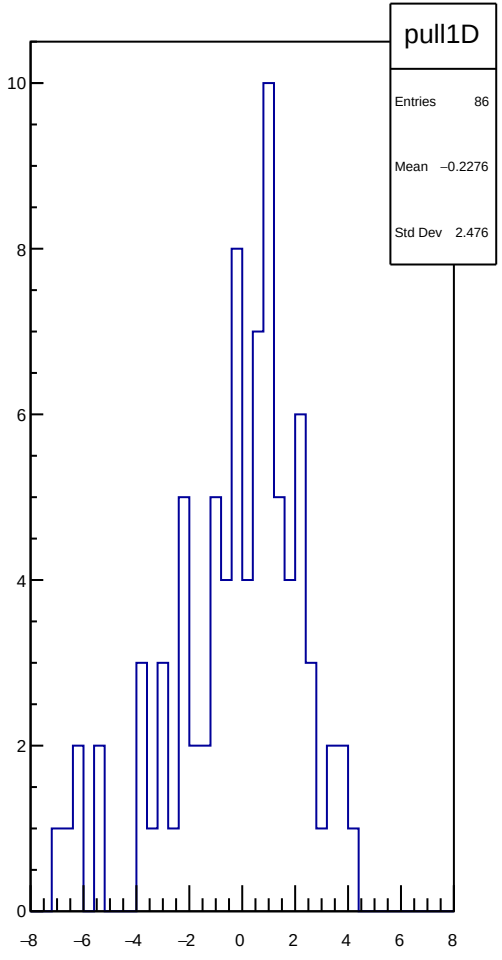

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 108.2 / 85
p0 7.665 ± 0.91
pull
Entries 86
Mean 21.69
Std Dev 12.26
pull1D
Entries 86
Mean −0.04145
Std Dev 1.121

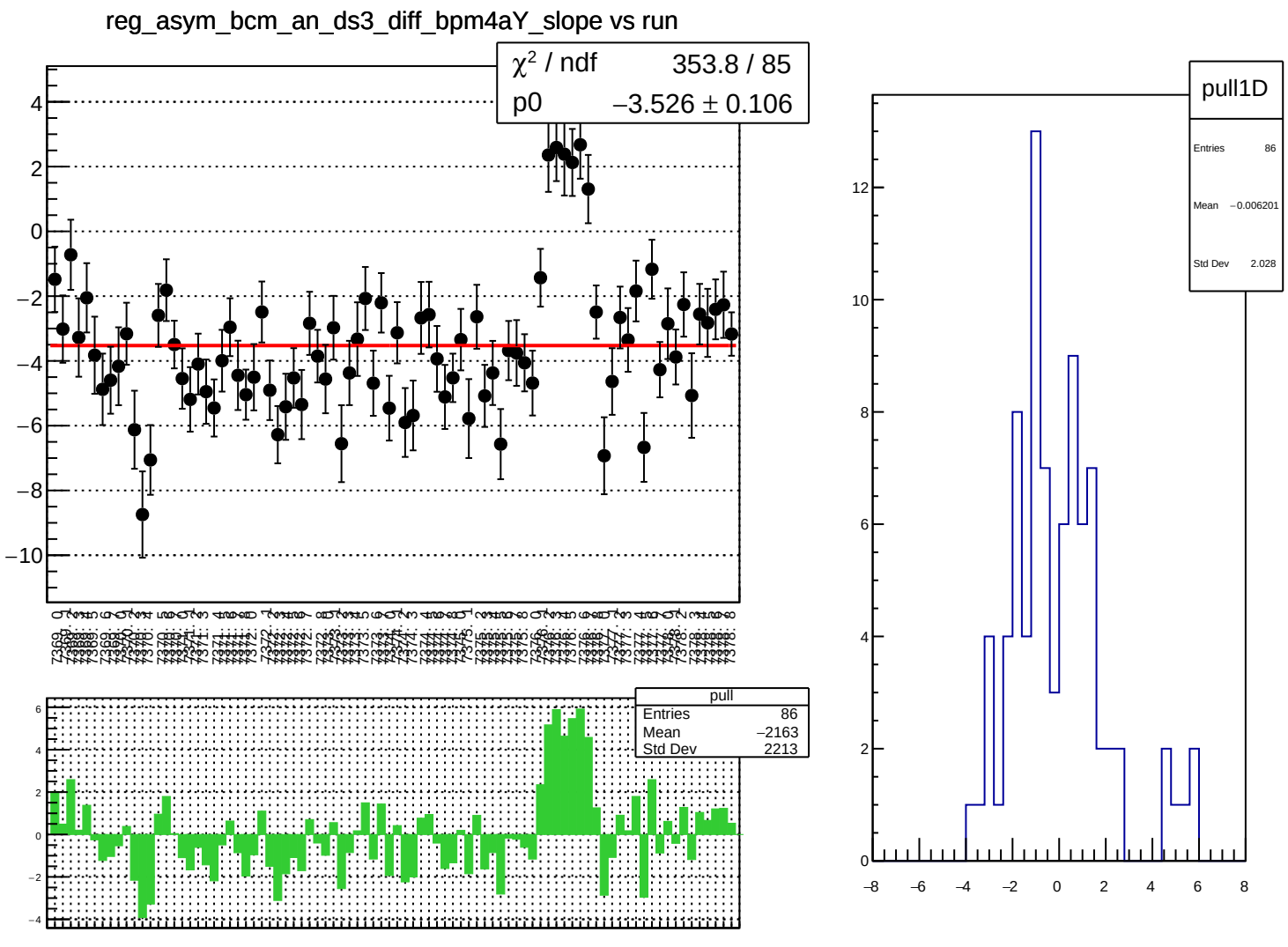

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 89.66 / 85
p0 −17.11 ± 0.8537
pull
Entries 86
Mean 129.5
Std Dev 25.05
pull1D
Entries 86
Mean −0.02175
Std Dev 1.021

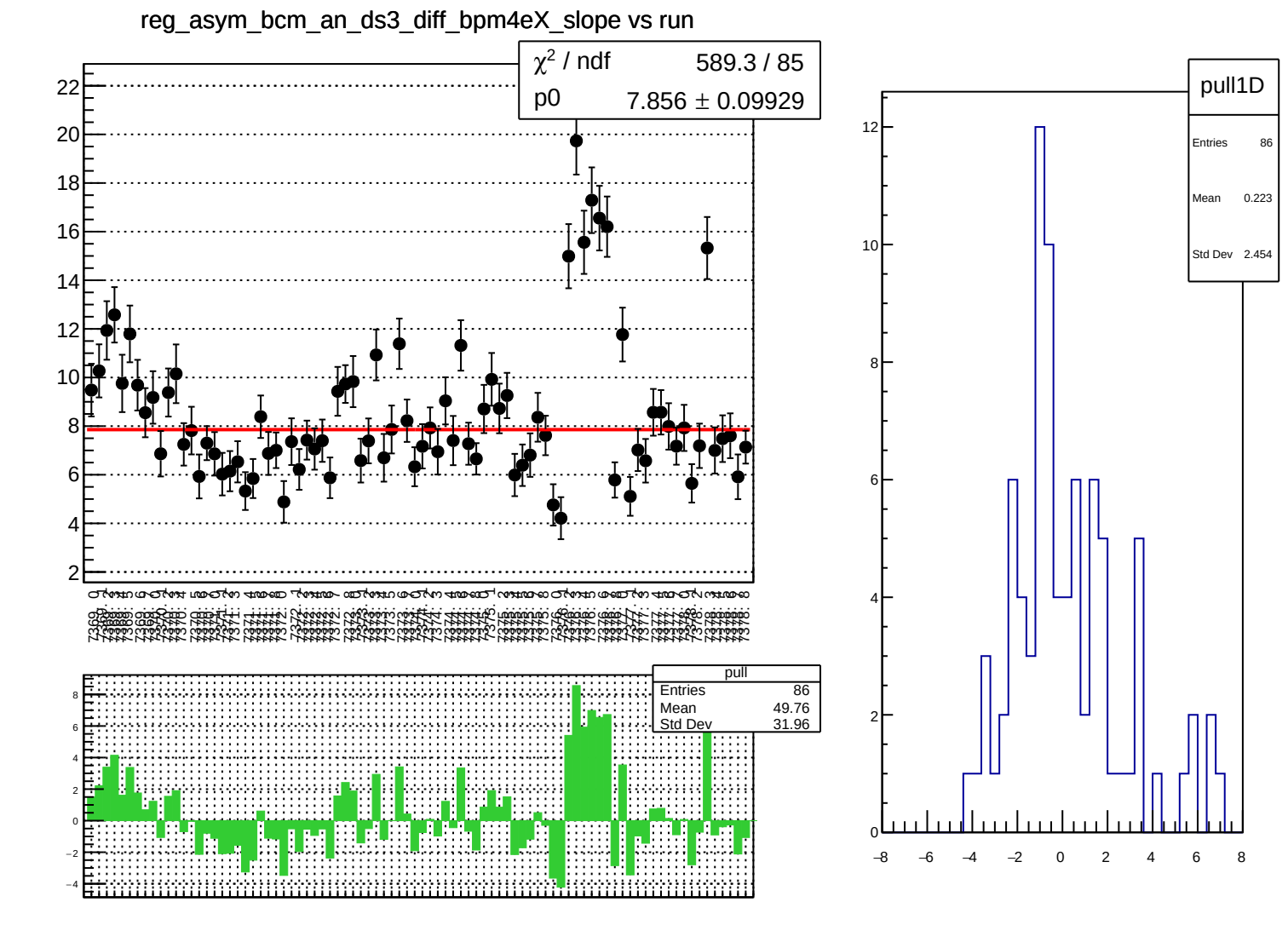

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 115.3 / 85
p0 −10.45 ± 0.9715
pull
Entries 86
Mean 63.03
Std Dev 25.89
pull1D
Entries 86
Mean 0.04574
Std Dev 1.157

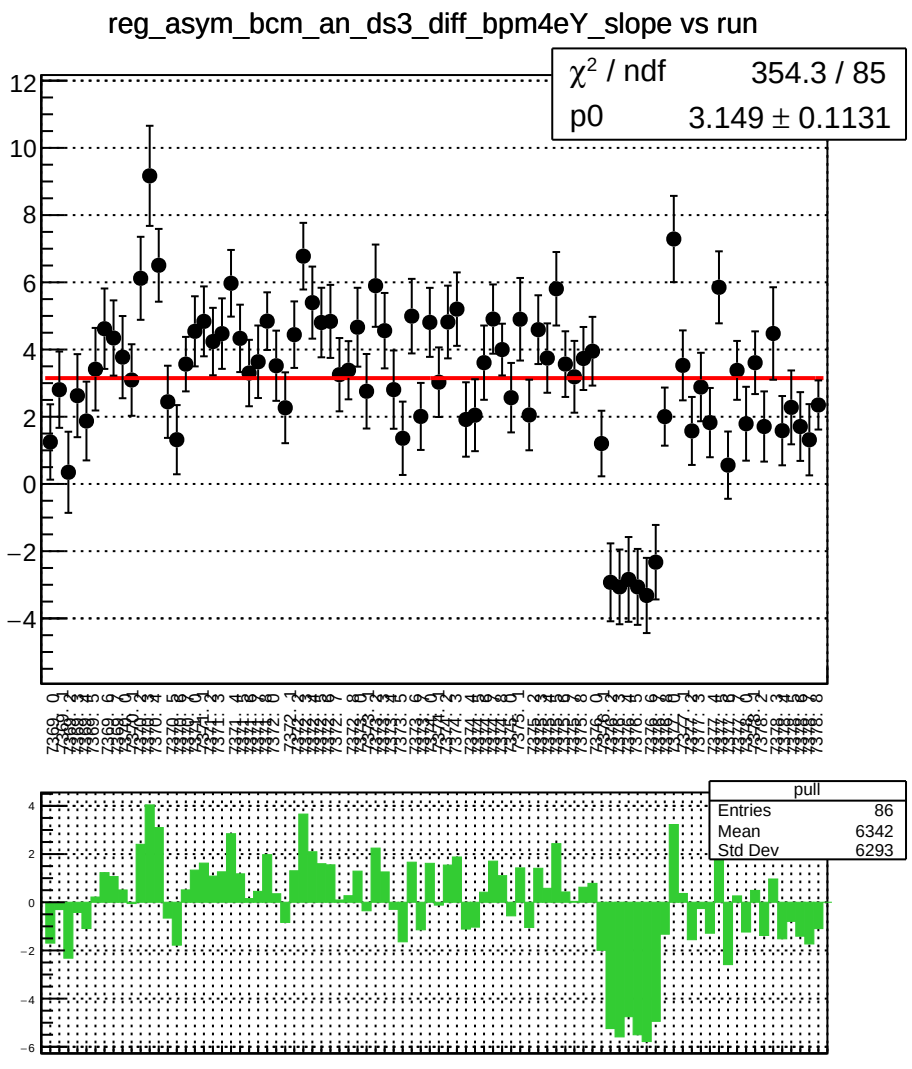

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 143.8 / 85
p0 6.891 ± 0.04467
pull
Entries 86
Mean −2912
Std Dev 2951
pull1D
Entries 86
Mean −0.005048
Std Dev 1.293

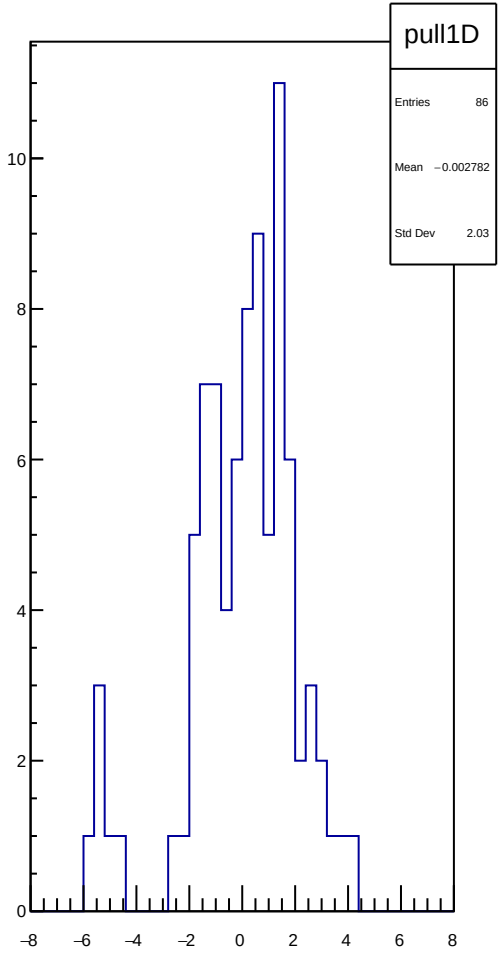

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 594.7 / 85
p0 −7.45 ± 0.09549
pull
Entries 86
Mean 43.71
Std Dev 34.1

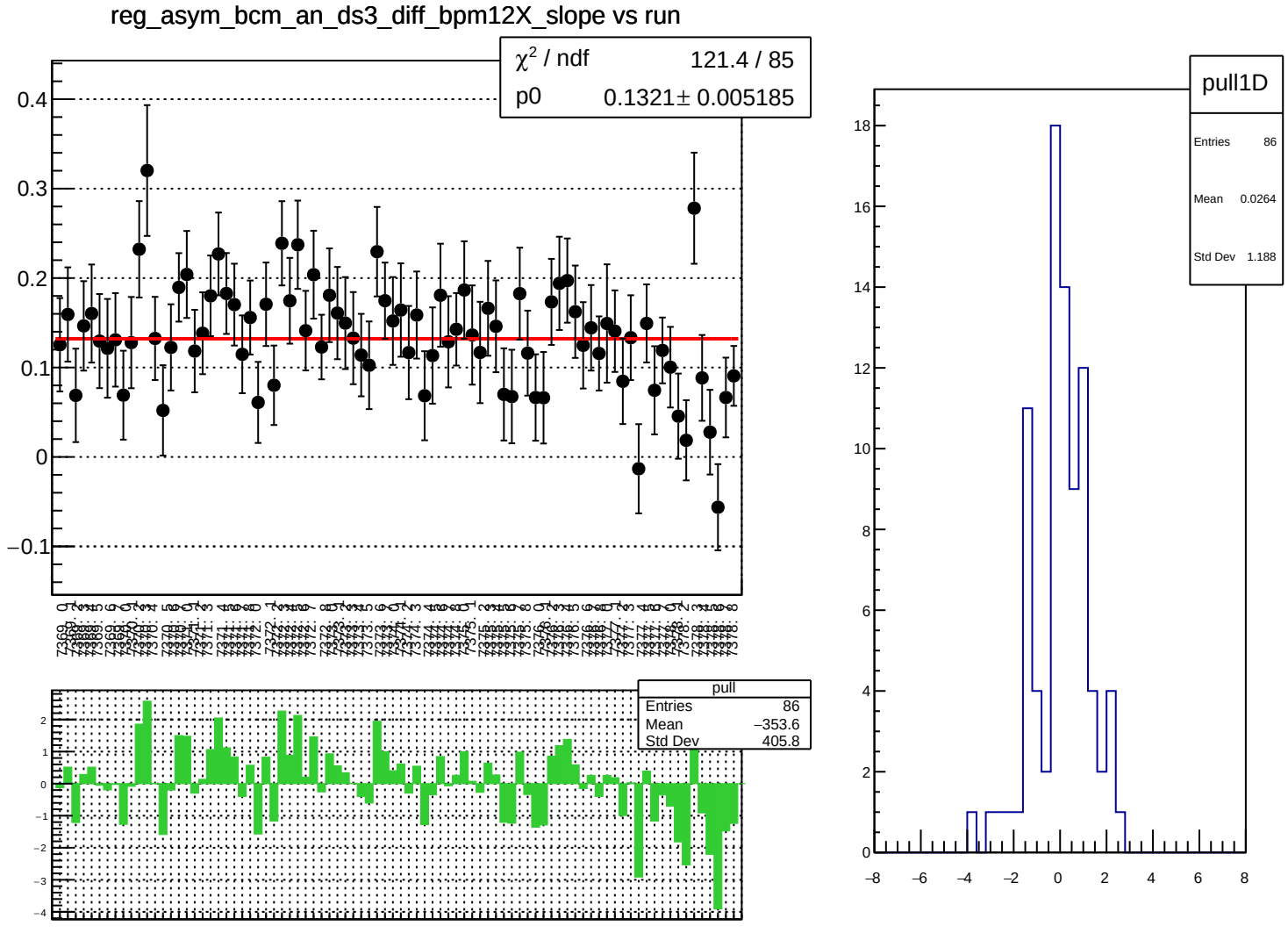

pull1D
Entries 86
Mean −0.2276
Std Dev 2.476

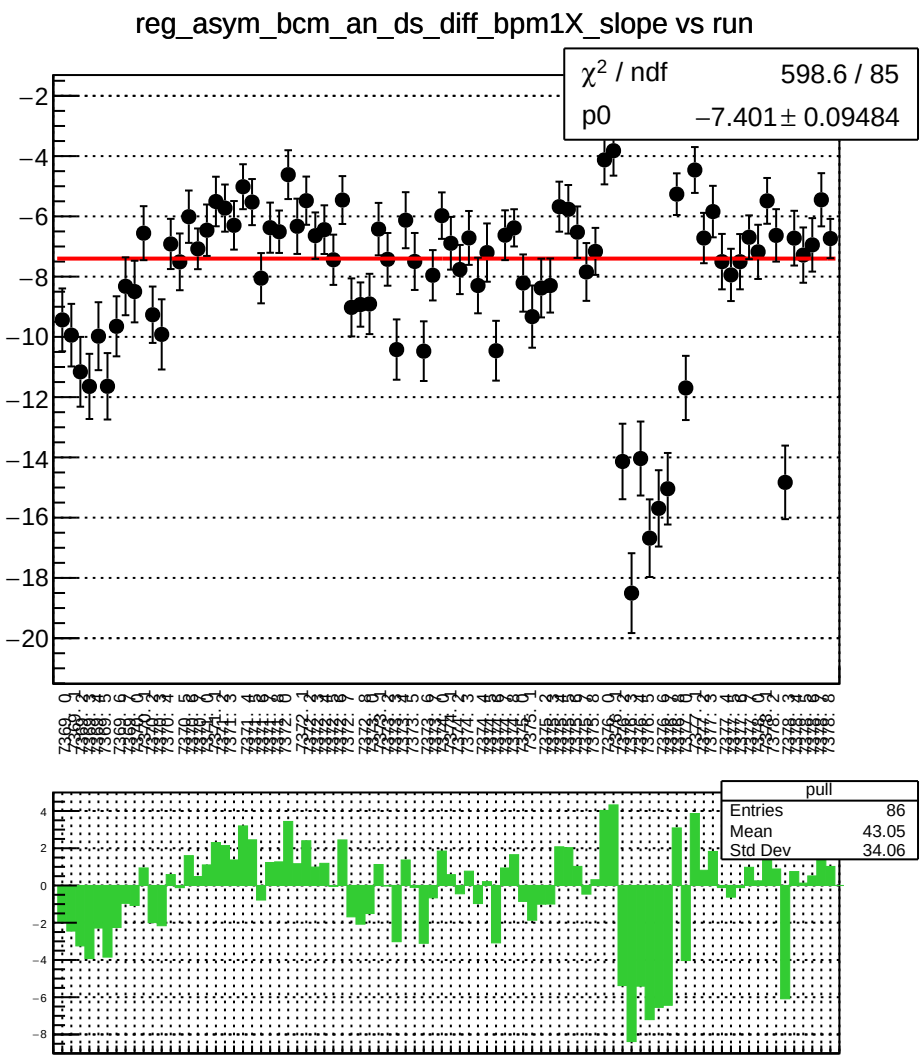

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 353.8 / 85
p0 −3.526 ± 0.106
pull
Entries 86
Mean −2163
Std Dev 2213
pull1D
Entries 86
Mean −0.006201
Std Dev 2.028

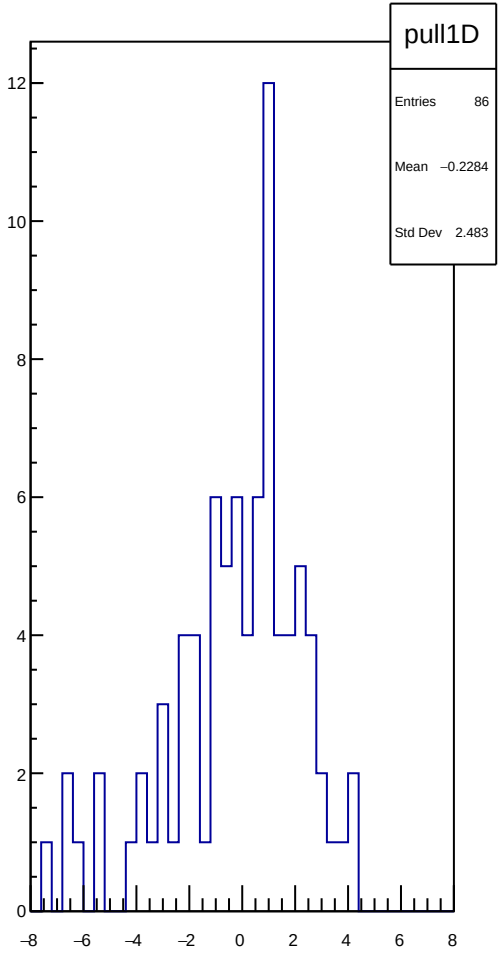

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 589.3 / 85
p0 7.856 ± 0.09929
pull
Entries 86
Mean 49.76
Std Dev 31.96
pull1D
Entries 86
Mean 0.223
Std Dev 2.454

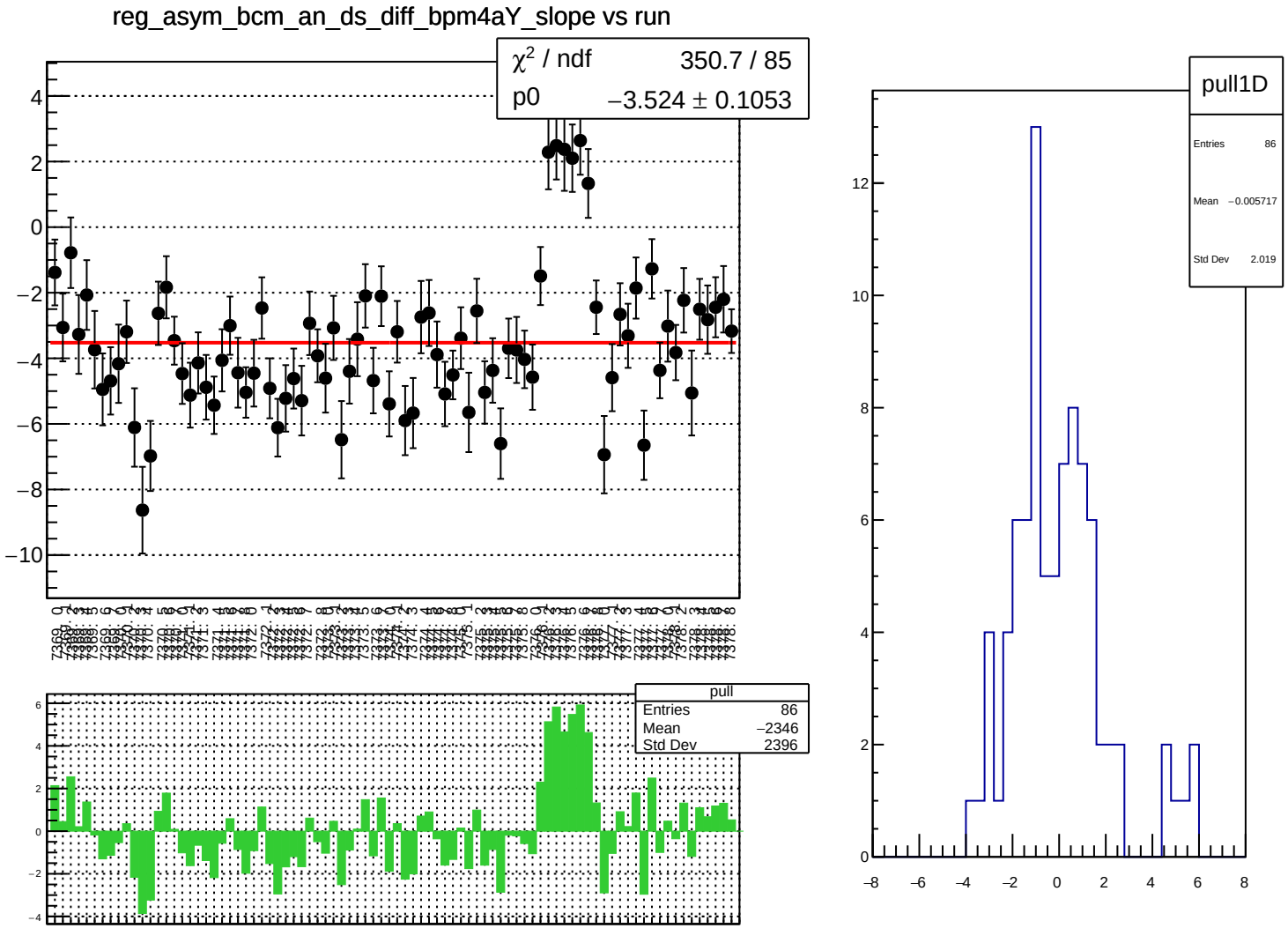

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 354.3 / 85
p0 3.149 ± 0.1131
pull
Entries 86
Mean 6342
Std Dev 6293

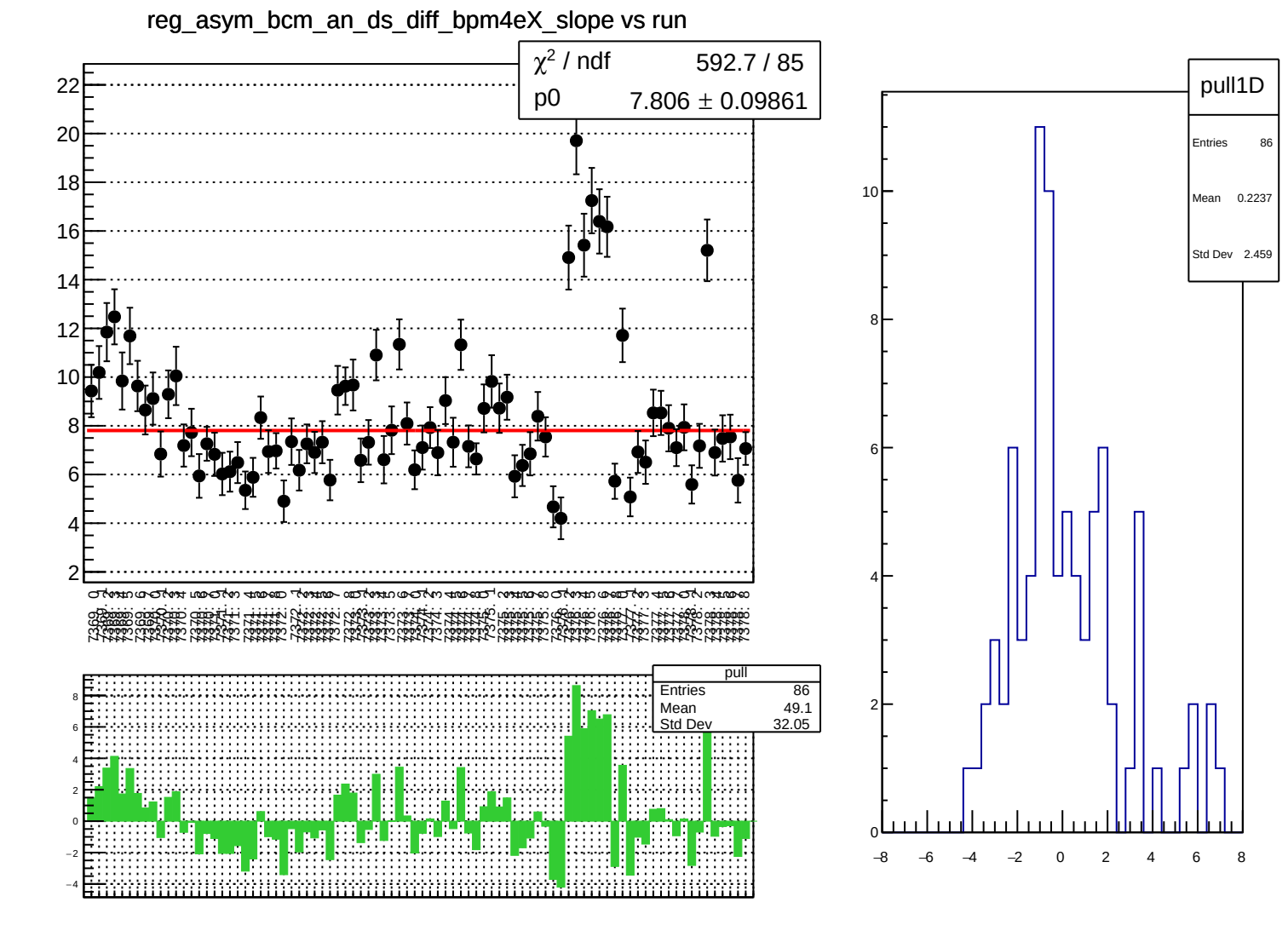

pull1D
Entries 86
Mean −0.002782
Std Dev 2.03

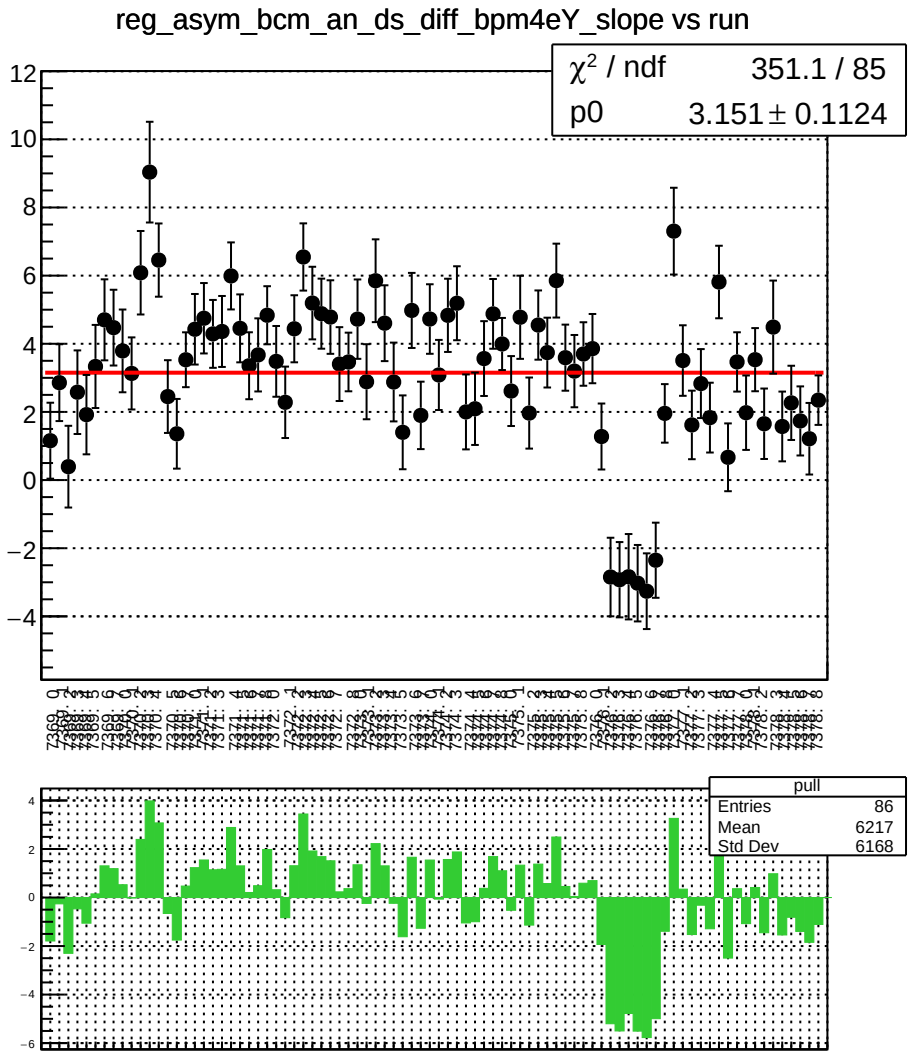

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 121.4 / 85
p0 0.1321± 0.005185
pull
Entries 86
Mean −353.6
Std Dev 405.8
pull1D
Entries 86
Mean 0.0264
Std Dev 1.188

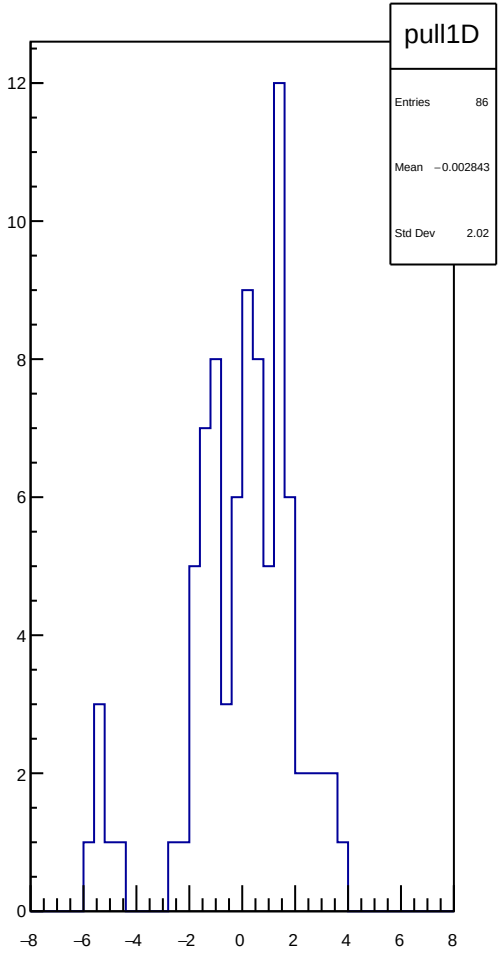

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 598.6 / 85
p0 −7.401 ± 0.09484
pull
Entries 86
Mean 43.05
Std Dev 34.06

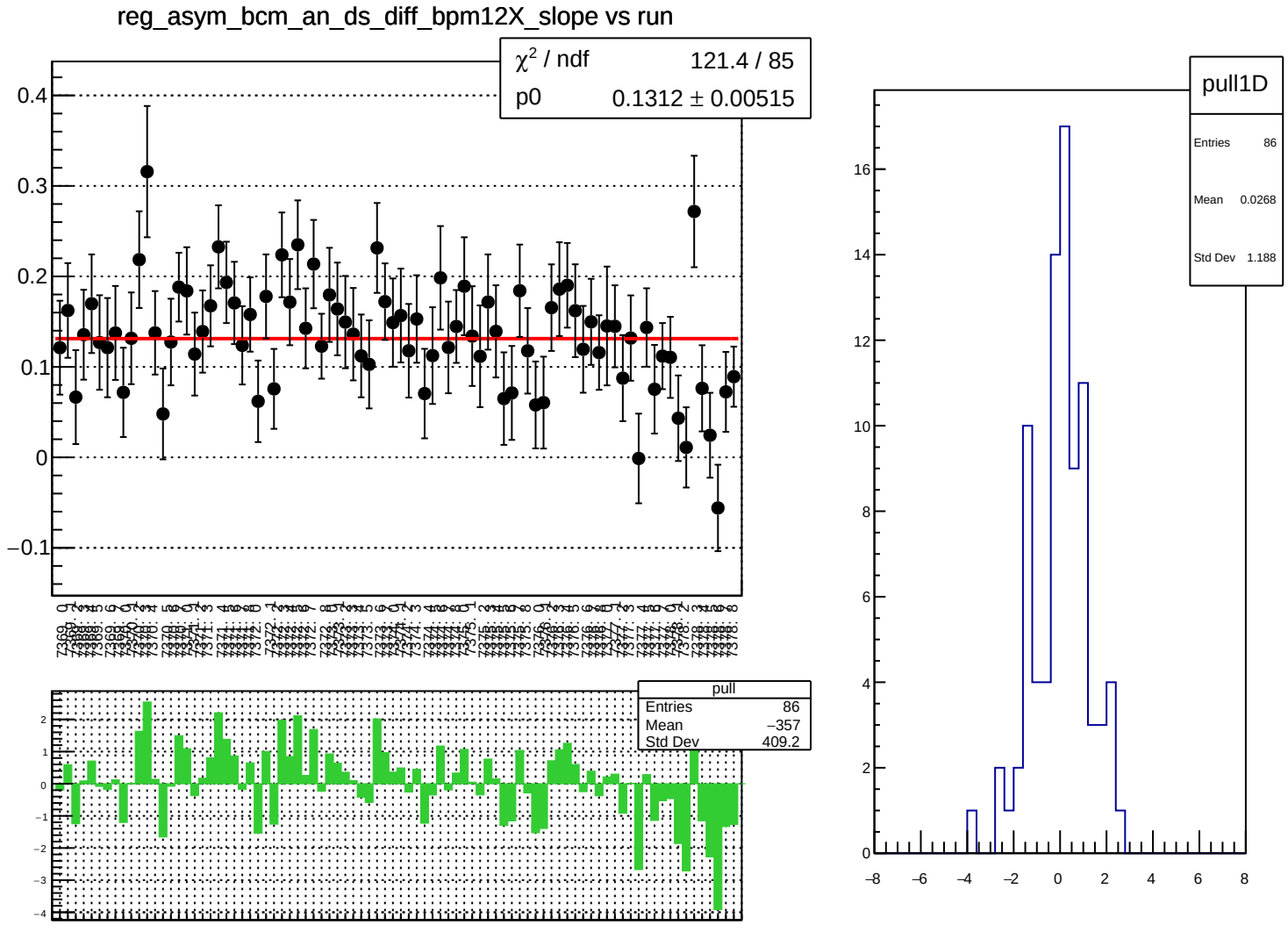

pull1D
Entries 86
Mean −0.2284
Std Dev 2.483

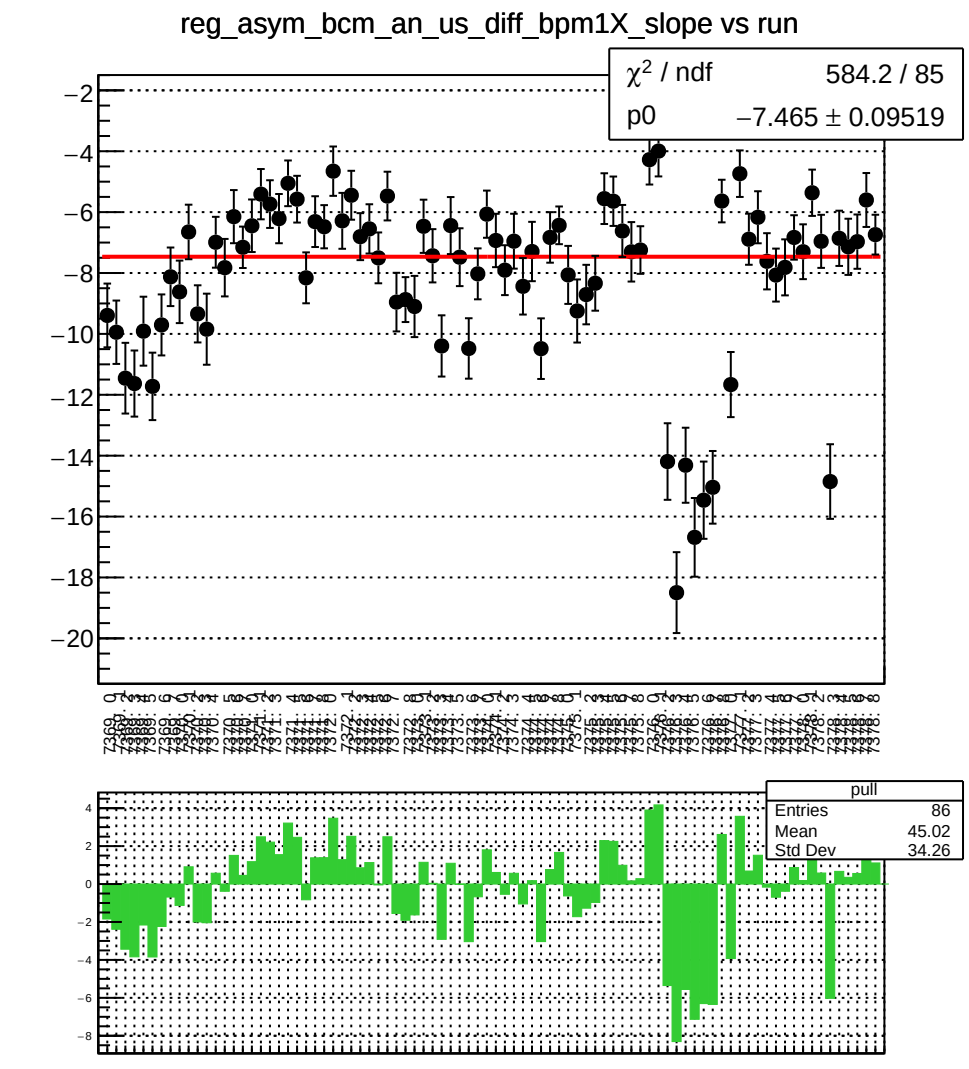

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 350.7 / 85
p0 −3.524 ± 0.1053
pull
Entries 86
Mean −2346
Std Dev 2396
pull1D
Entries 86
Mean −0.005717
Std Dev 2.019

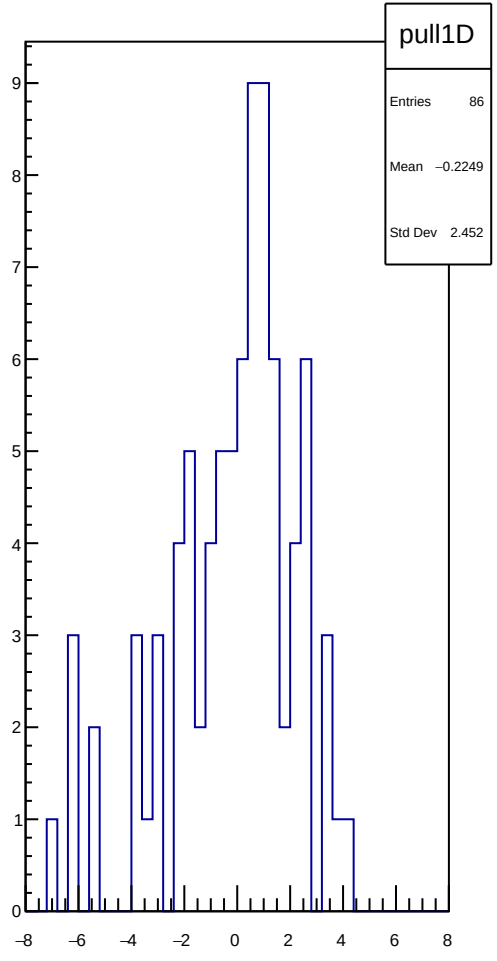

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 592.7 / 85
p0 7.806 ± 0.09861
pull
Entries 86
Mean 49.1
Std Dev 32.05
pull1D
Entries 86
Mean 0.2237
Std Dev 2.459

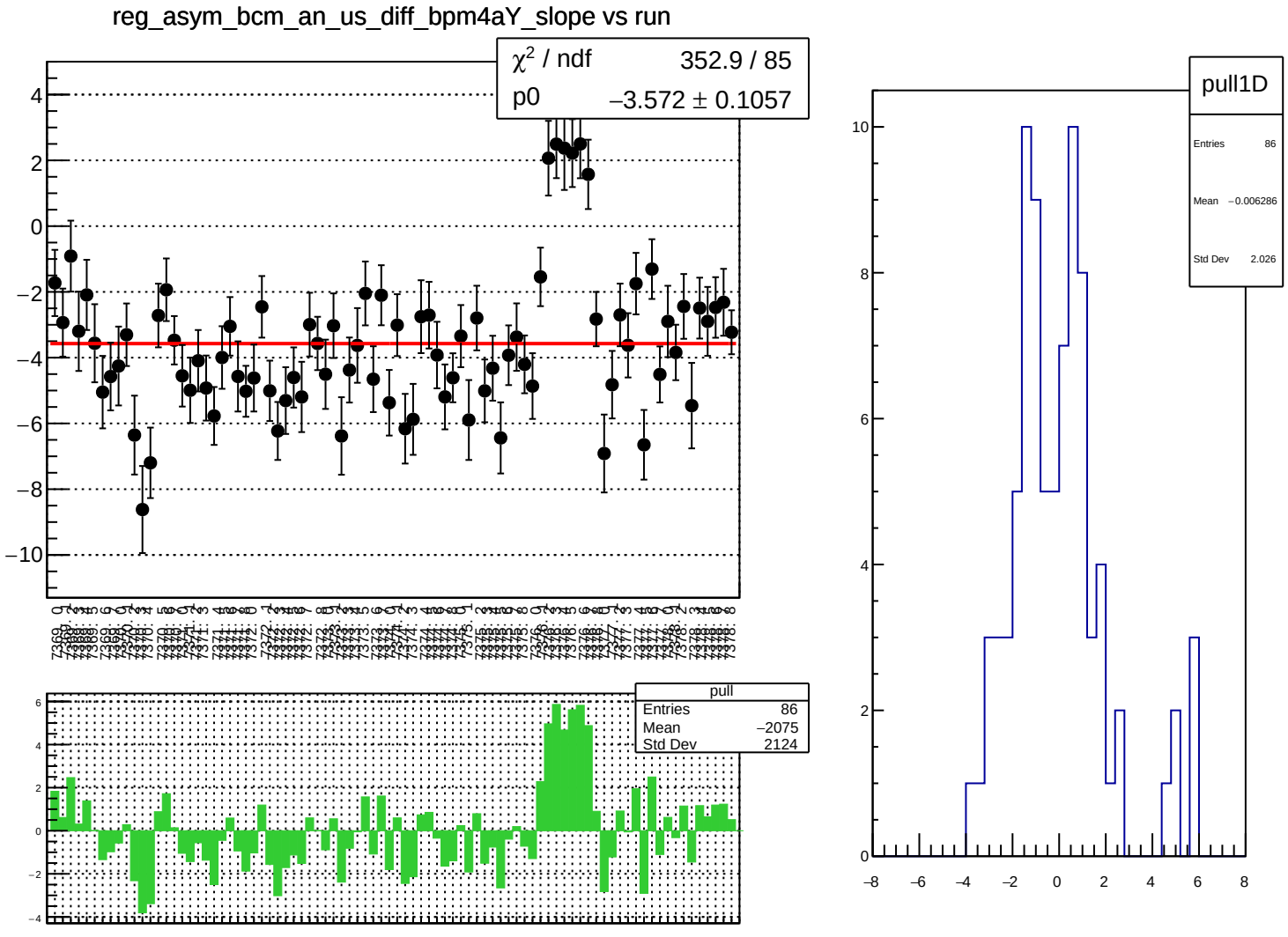

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 351.1 / 85
p0 3.151 ± 0.1124
pull
Entries 86
Mean 6217
Std Dev 6168

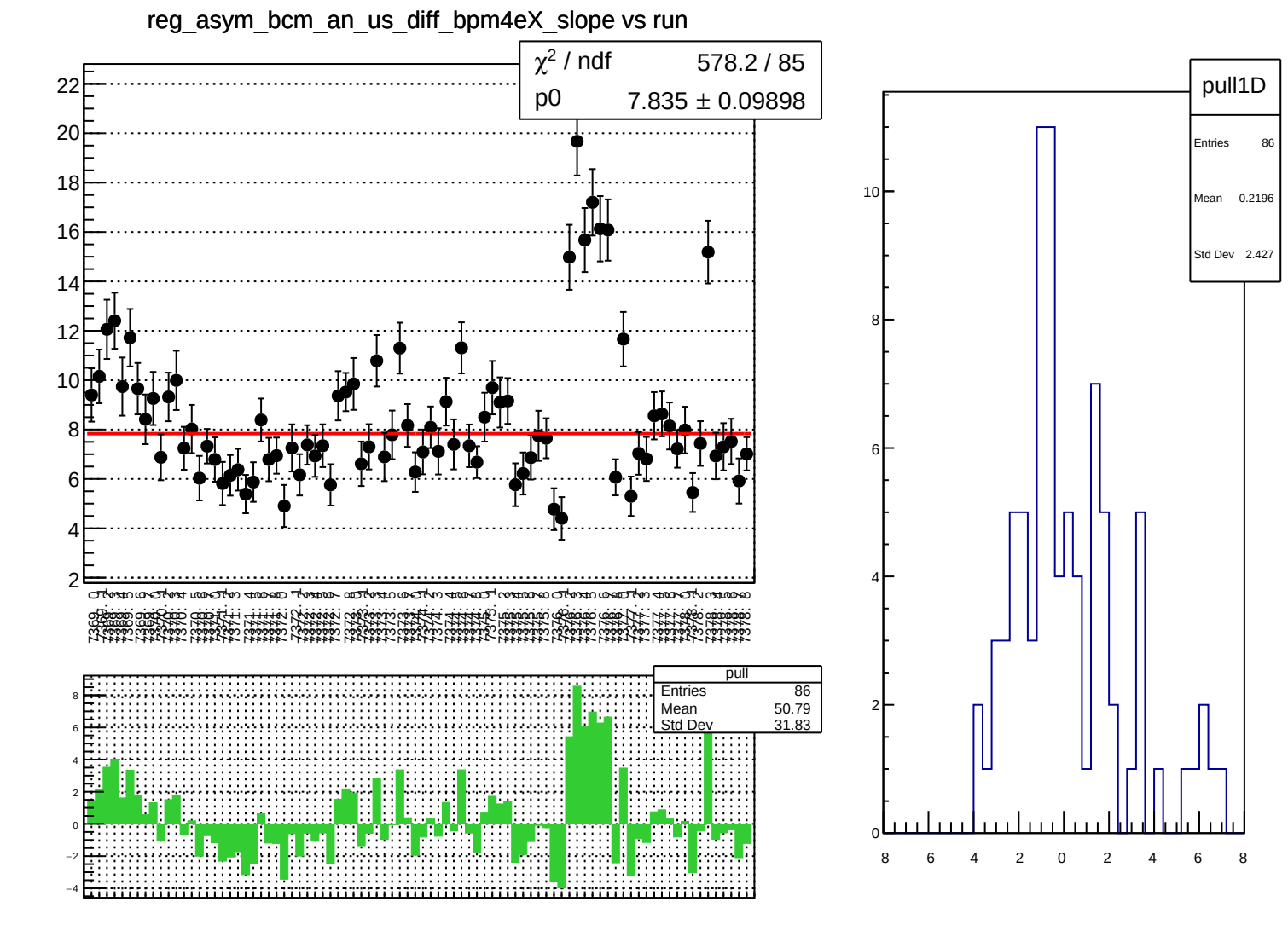

pull1D
Entries 86
Mean −0.002843
Std Dev 2.02

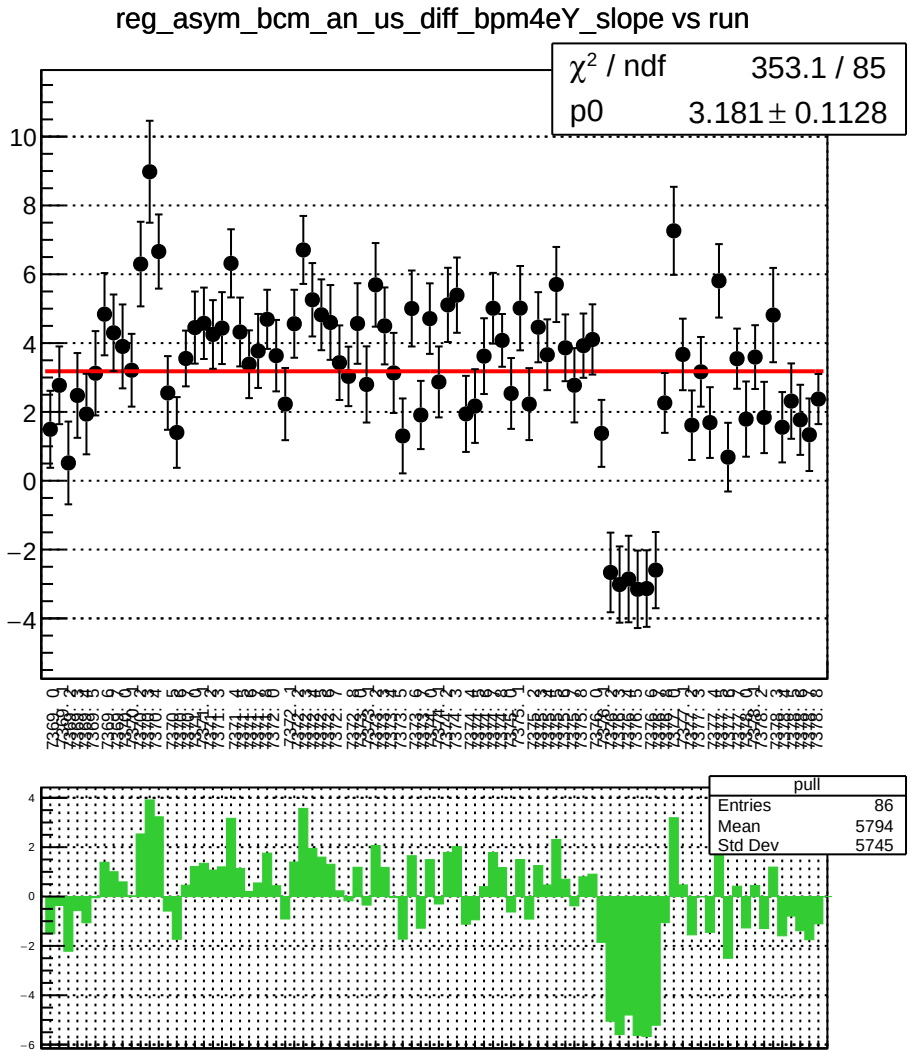

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 121.4 / 85
p0 0.1312 ± 0.00515
pull
Entries 86
Mean −357
Std Dev 409.2
pull1D
Entries 86
Mean 0.0268
Std Dev 1.188

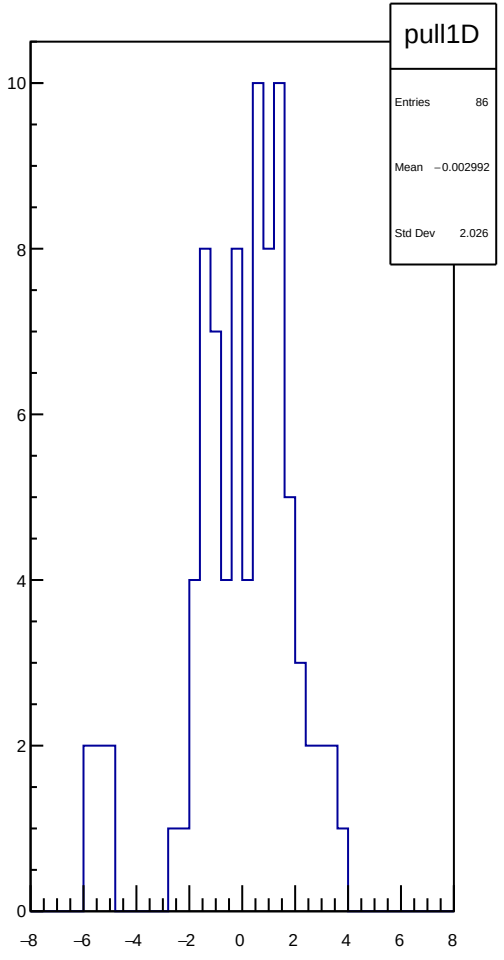

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 584.2 / 85
p0 −7.465 ± 0.09519
pull
Entries 86
Mean 45.02
Std Dev 34.26

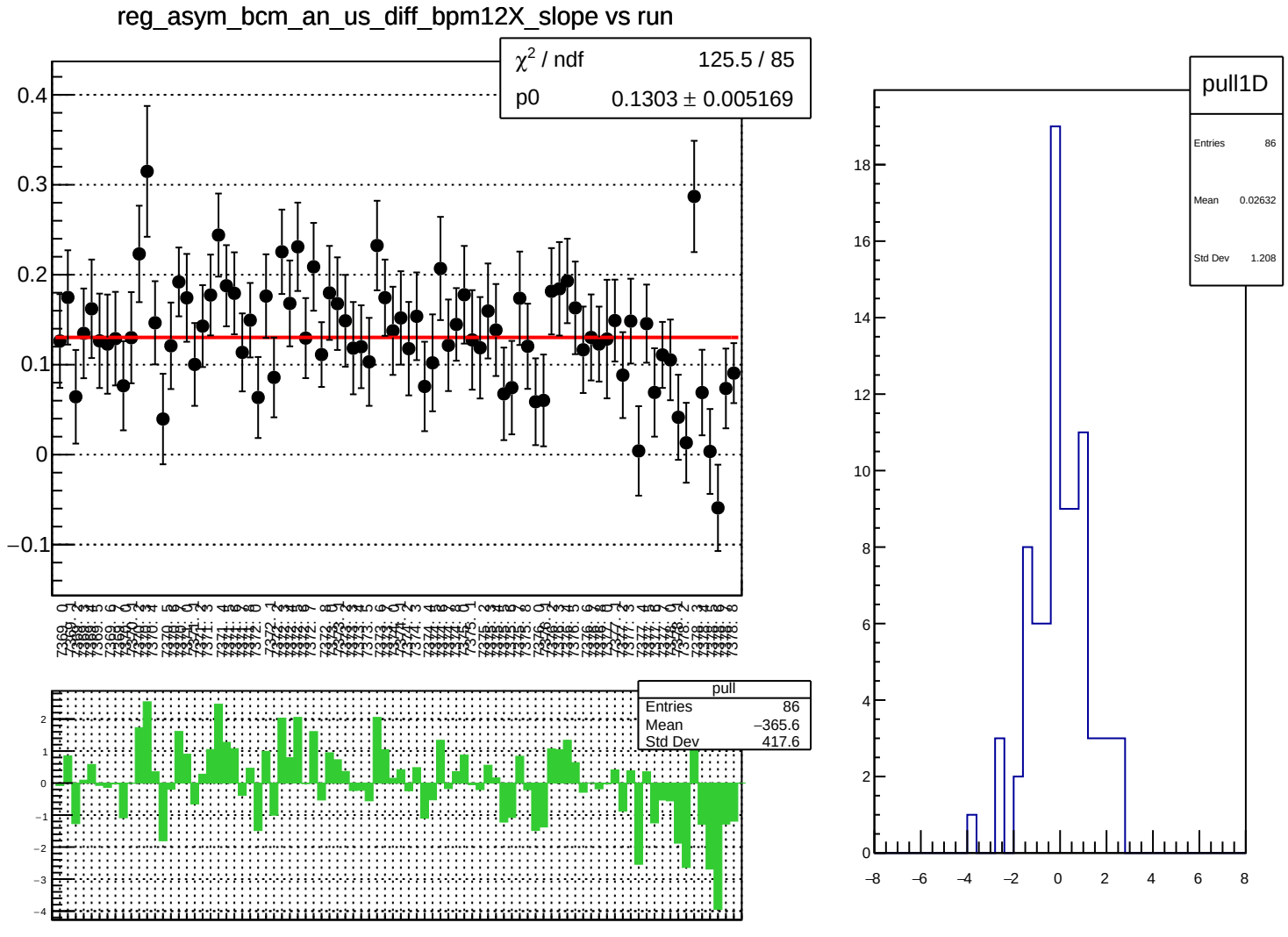

pull1D
Entries 86
Mean −0.2249
Std Dev 2.452

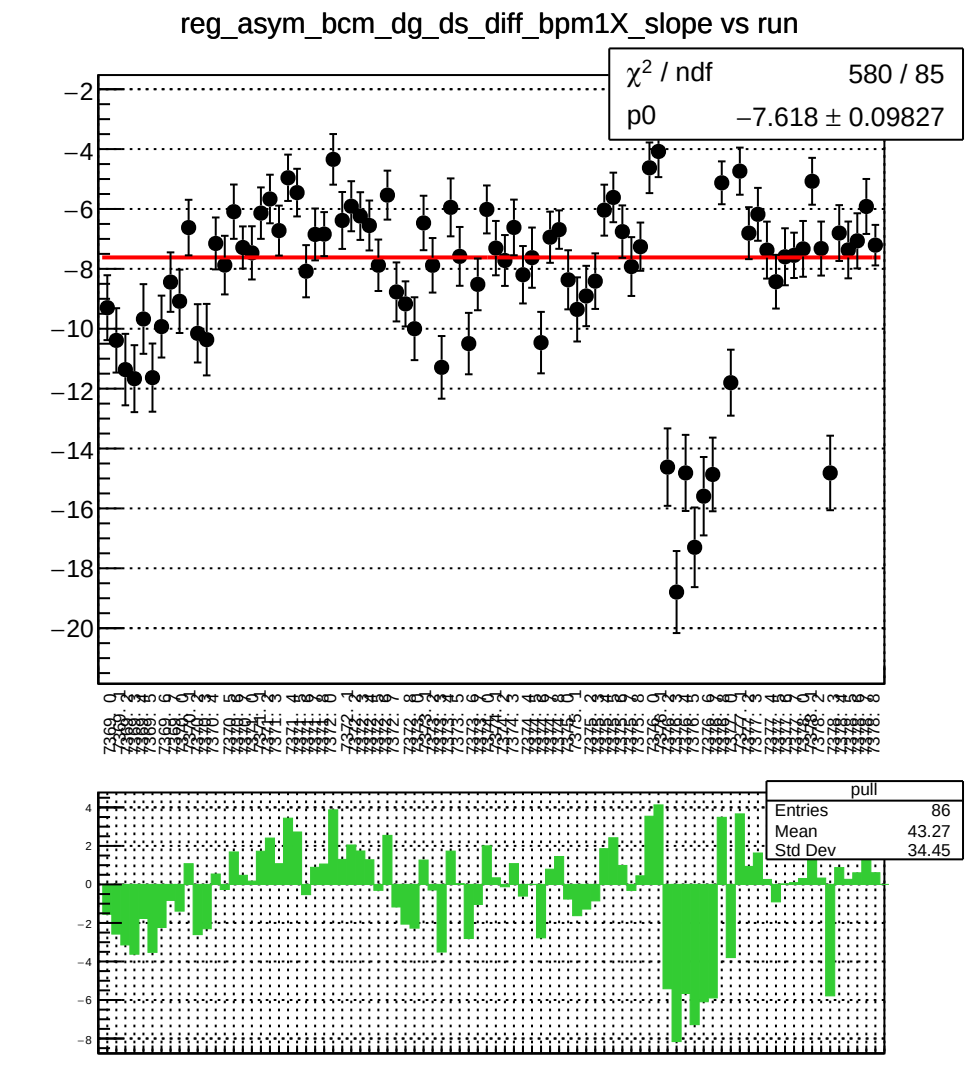

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 352.9 / 85
p0 −3.572 ± 0.1057
pull
Entries 86
Mean −2075
Std Dev 2124
pull1D
Entries 86
Mean −0.006286
Std Dev 2.026

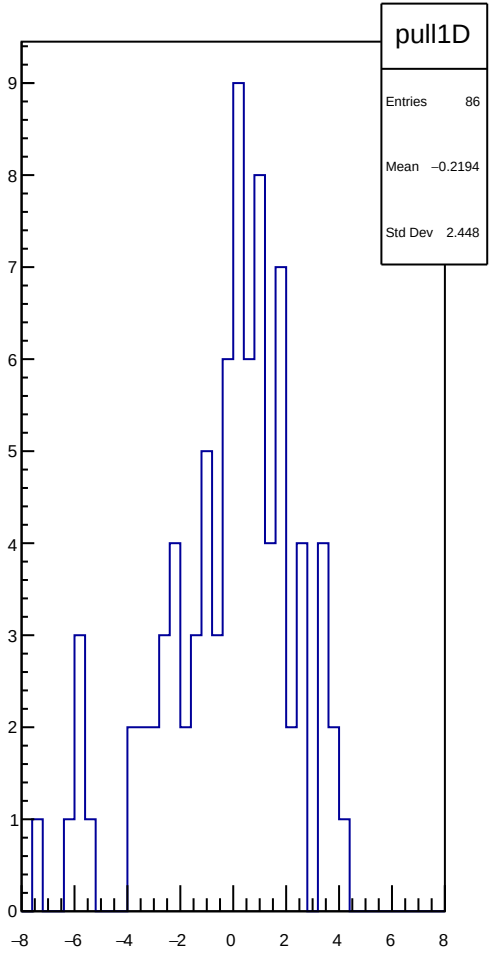

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 578.2 / 85
p0 7.835 ± 0.09898
pull
Entries 86
Mean 50.79
Std Dev 31.83
pull1D
Entries 86
Mean 0.2196
Std Dev 2.427

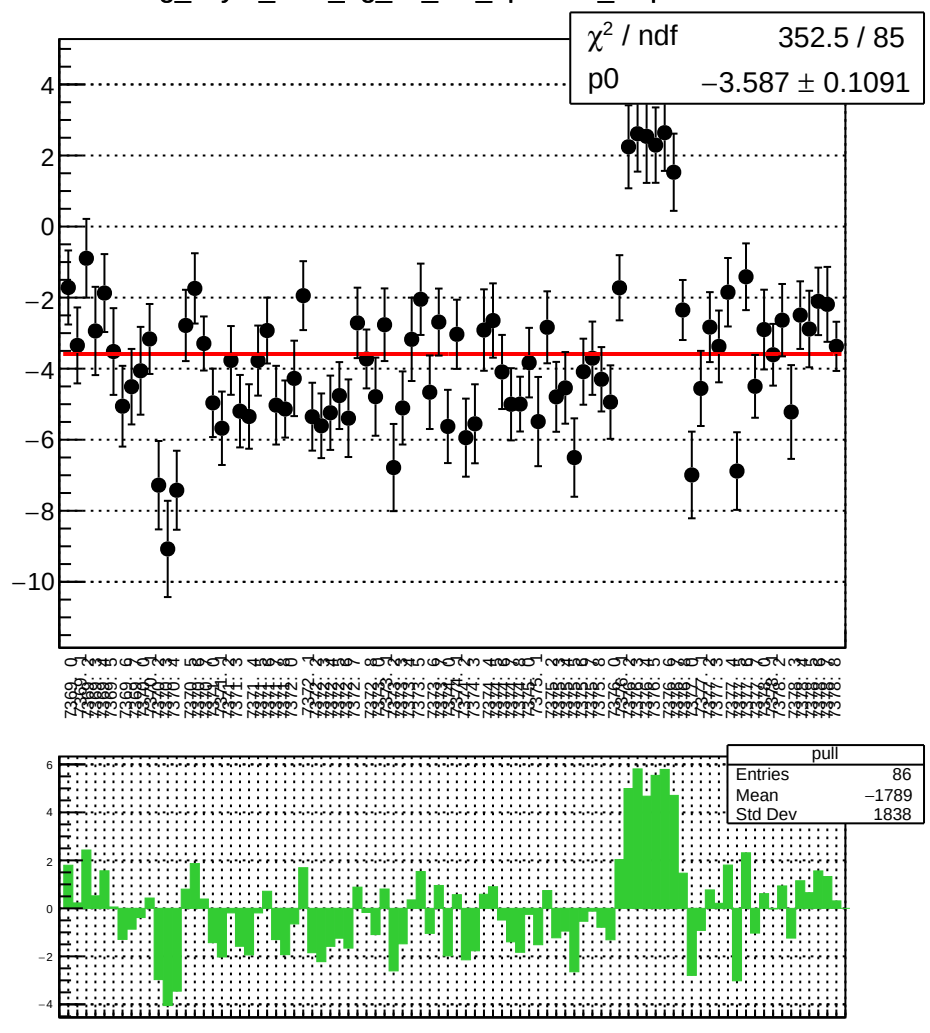

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 353.1 / 85
p0 3.181 ± 0.1128
pull
Entries 86
Mean 5794
Std Dev 5745

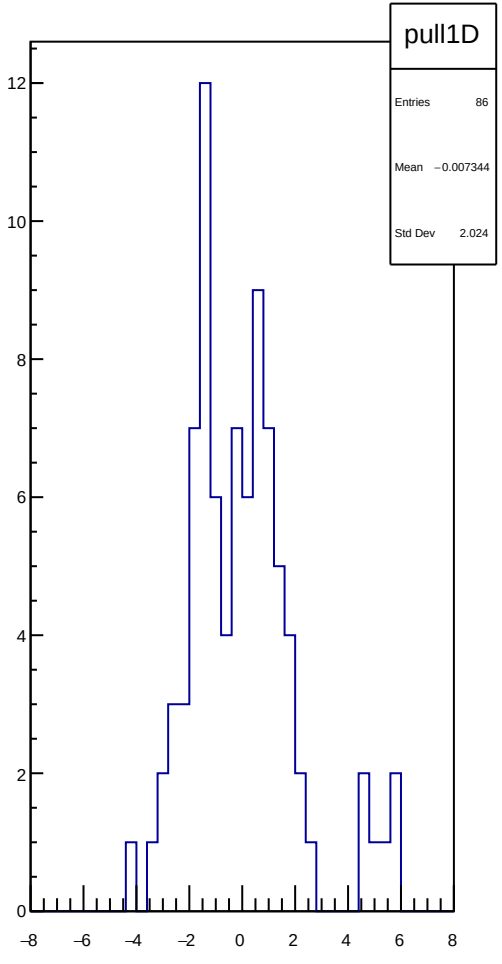

pull1D
Entries 86
Mean −0.002992
Std Dev 2.026

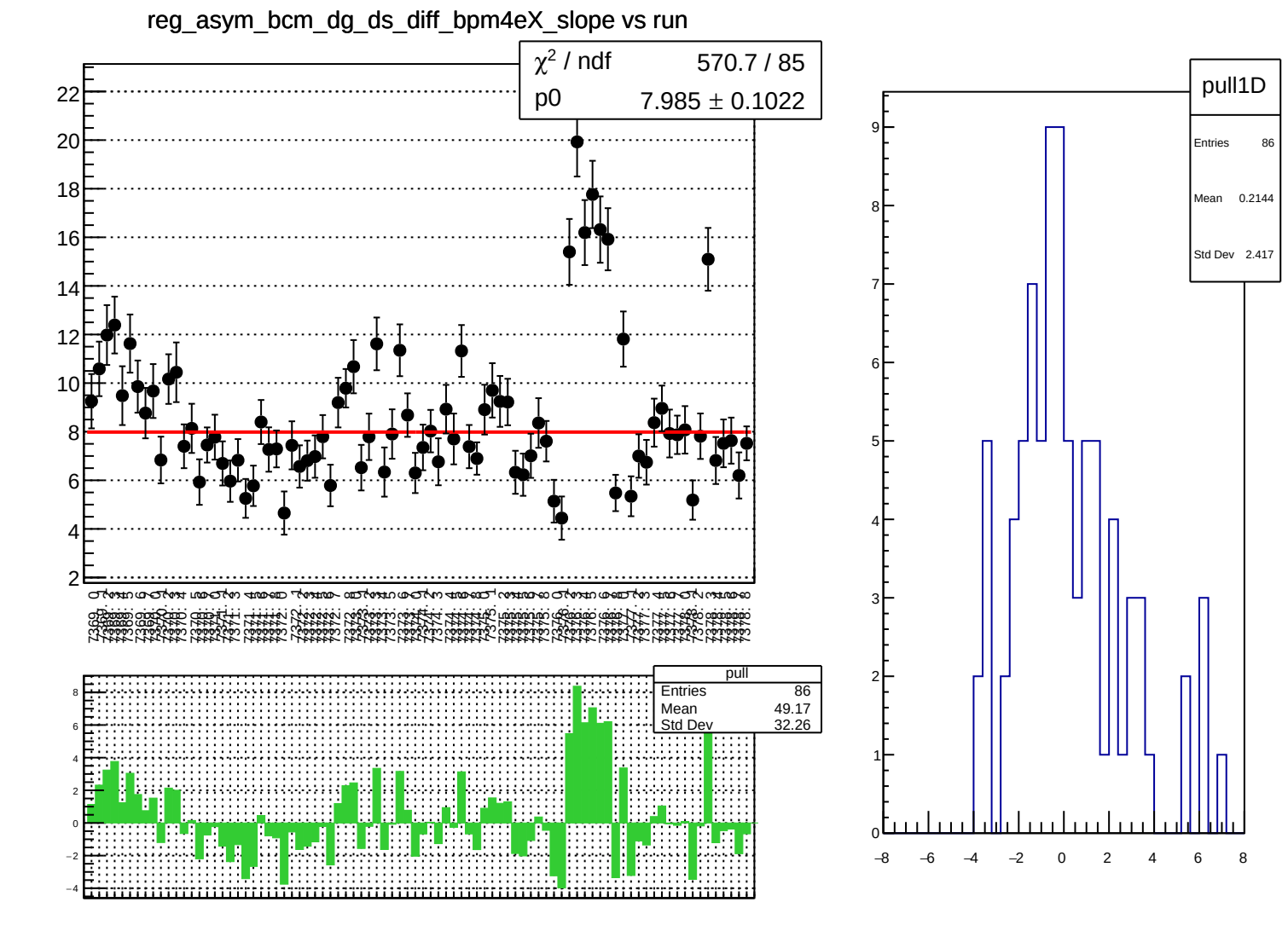

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 125.5 / 85
p0 0.1303 ± 0.005169
pull
Entries 86
Mean −365.6
Std Dev 417.6
pull1D
Entries 86
Mean 0.02632
Std Dev 1.208

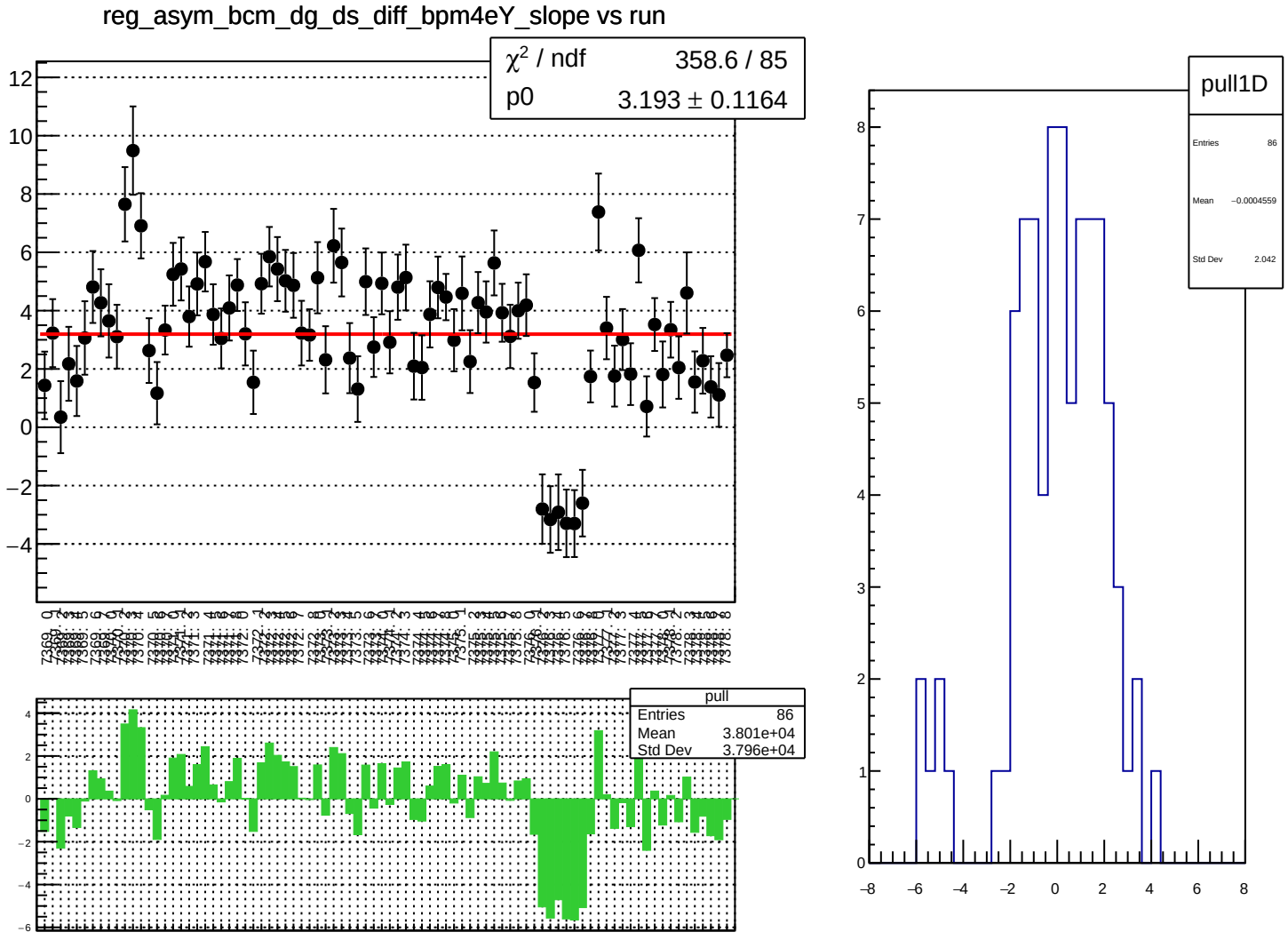

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 580 / 85
p0 −7.618 ± 0.09827
pull
Entries 86
Mean 43.27
Std Dev 34.45

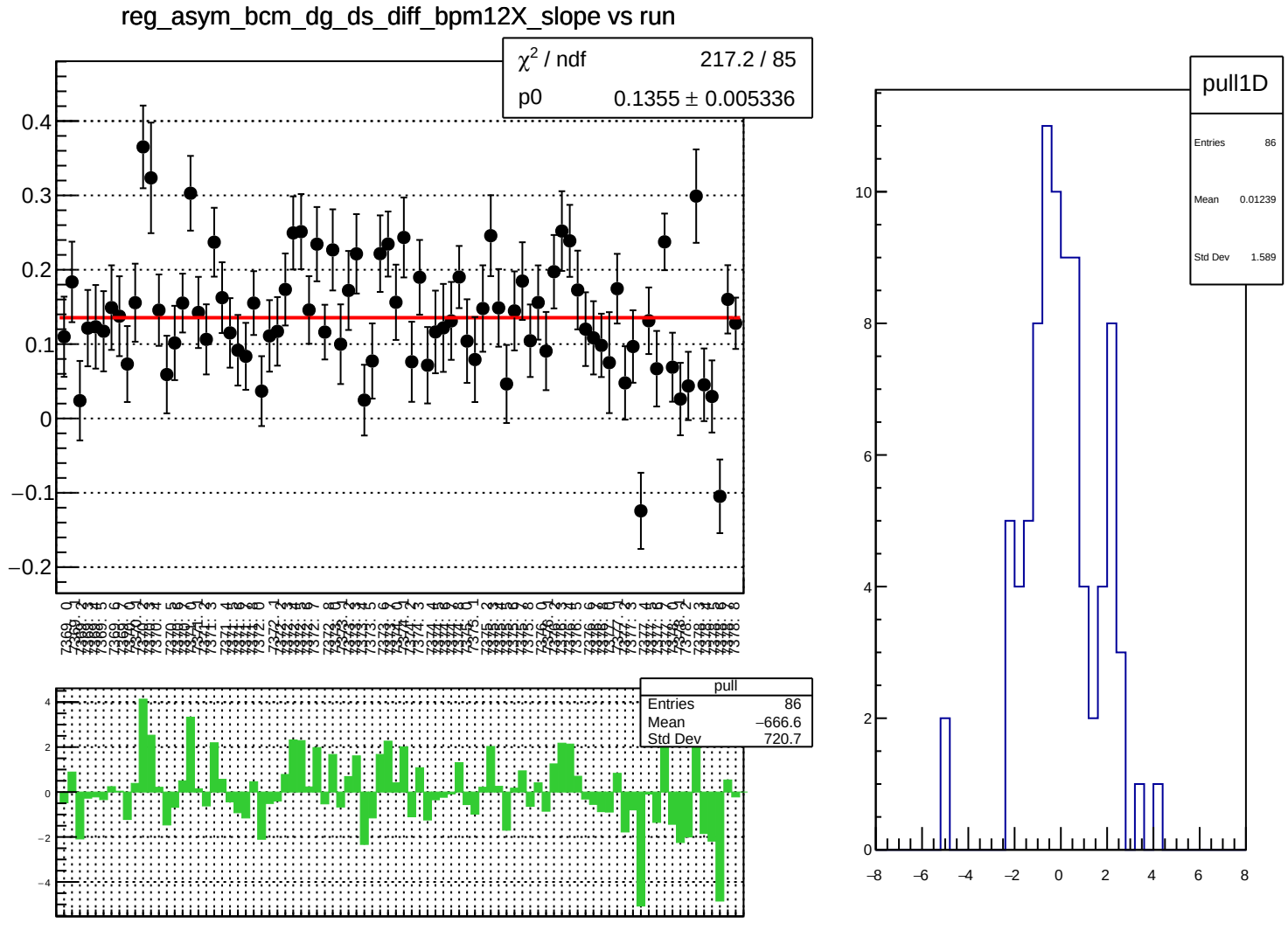

pull1D
Entries 86
Mean −0.2194
Std Dev 2.448

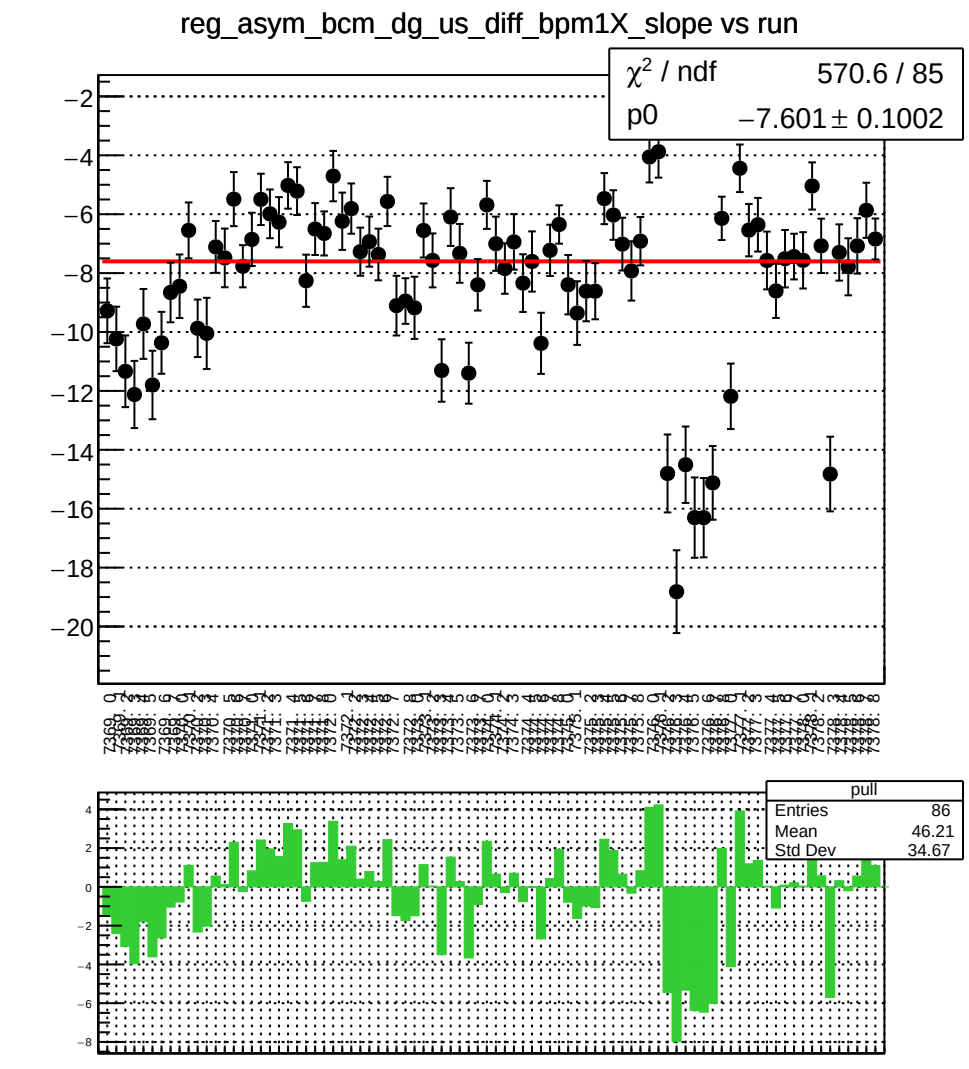

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 352.5 / 85
p0 −3.587 ± 0.1091
pull
Entries 86
Mean −1789
Std Dev 1838

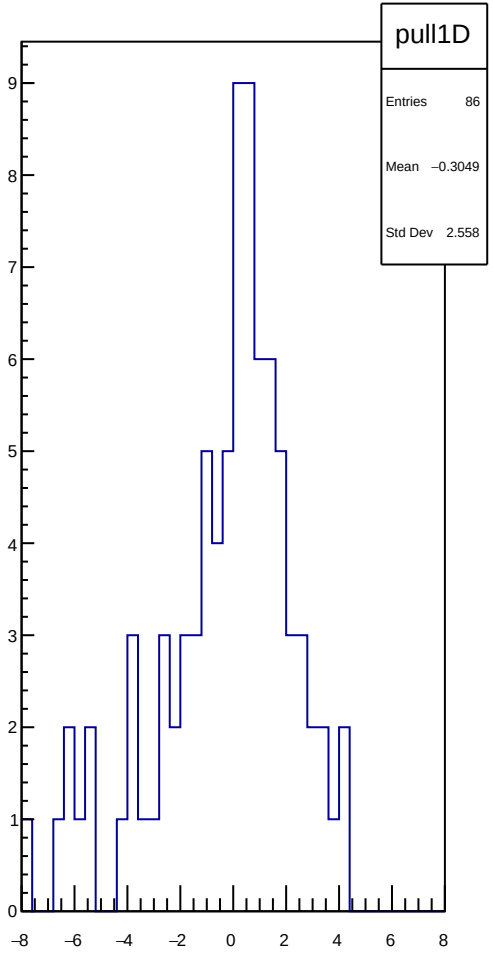

pull1D
Entries 86
Mean −0.007344
Std Dev 2.024

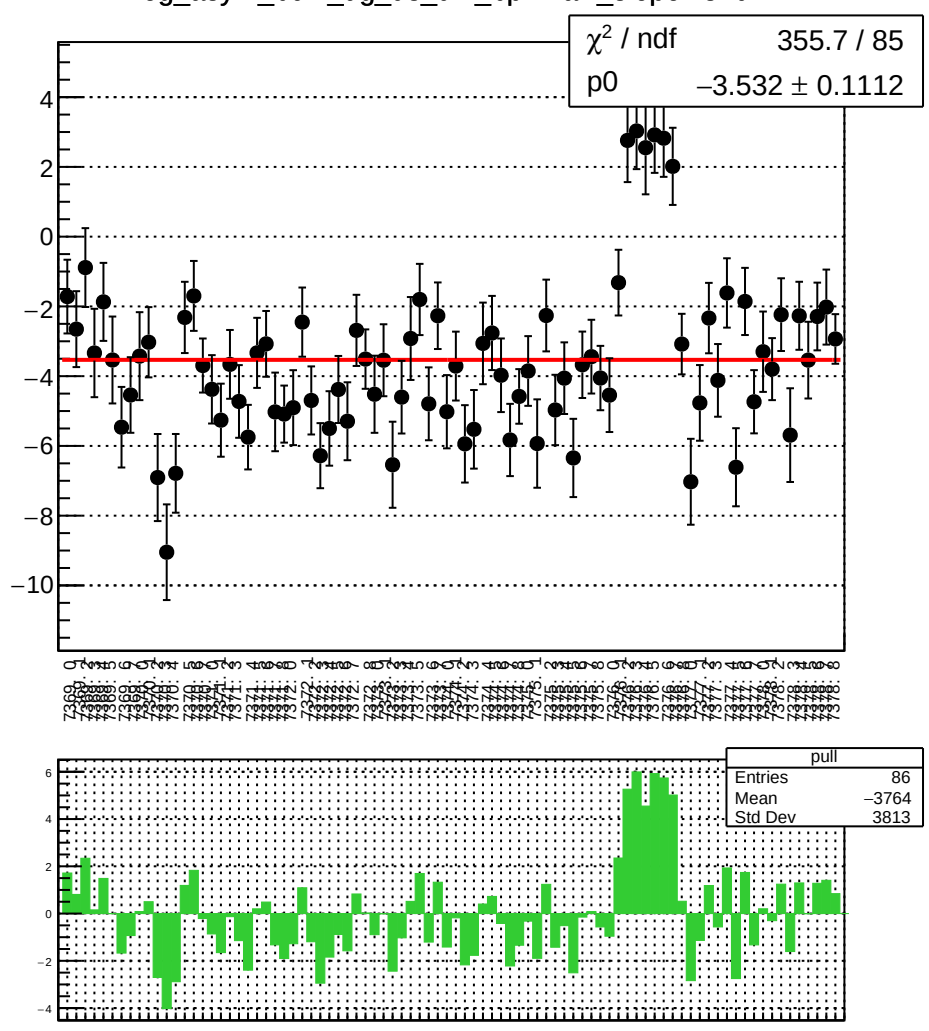

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 570.7 / 85
p0 7.985 ± 0.1022
pull
Entries 86
Mean 49.17
Std Dev 32.26
pull1D
Entries 86
Mean 0.2144
Std Dev 2.417

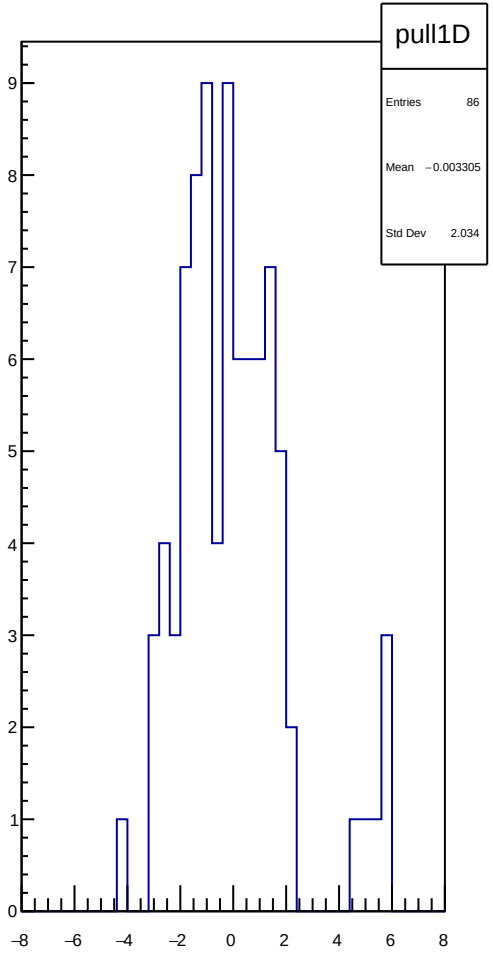

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 358.6 / 85
p0 3.193 ± 0.1164
pull
Entries 86
Mean 3.801e+04
Std Dev 3.796e+04
pull1D
Entries 86
Mean −0.0004559
Std Dev 2.042

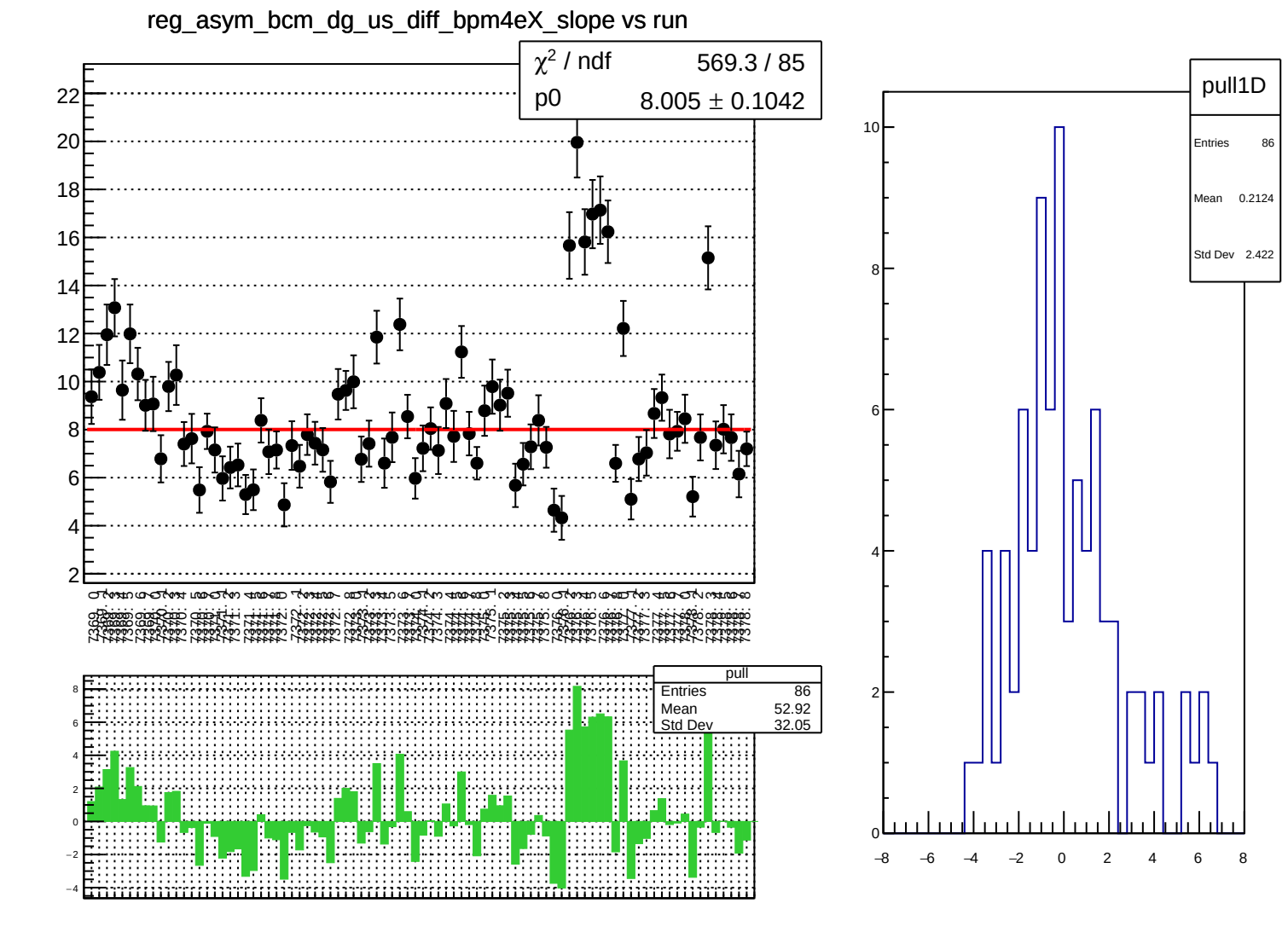

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 217.2 / 85
p0 0.1355 ± 0.005336
pull
Entries 86
Mean −666.6
Std Dev 720.7
pull1D
Entries 86
Mean 0.01239
Std Dev 1.589

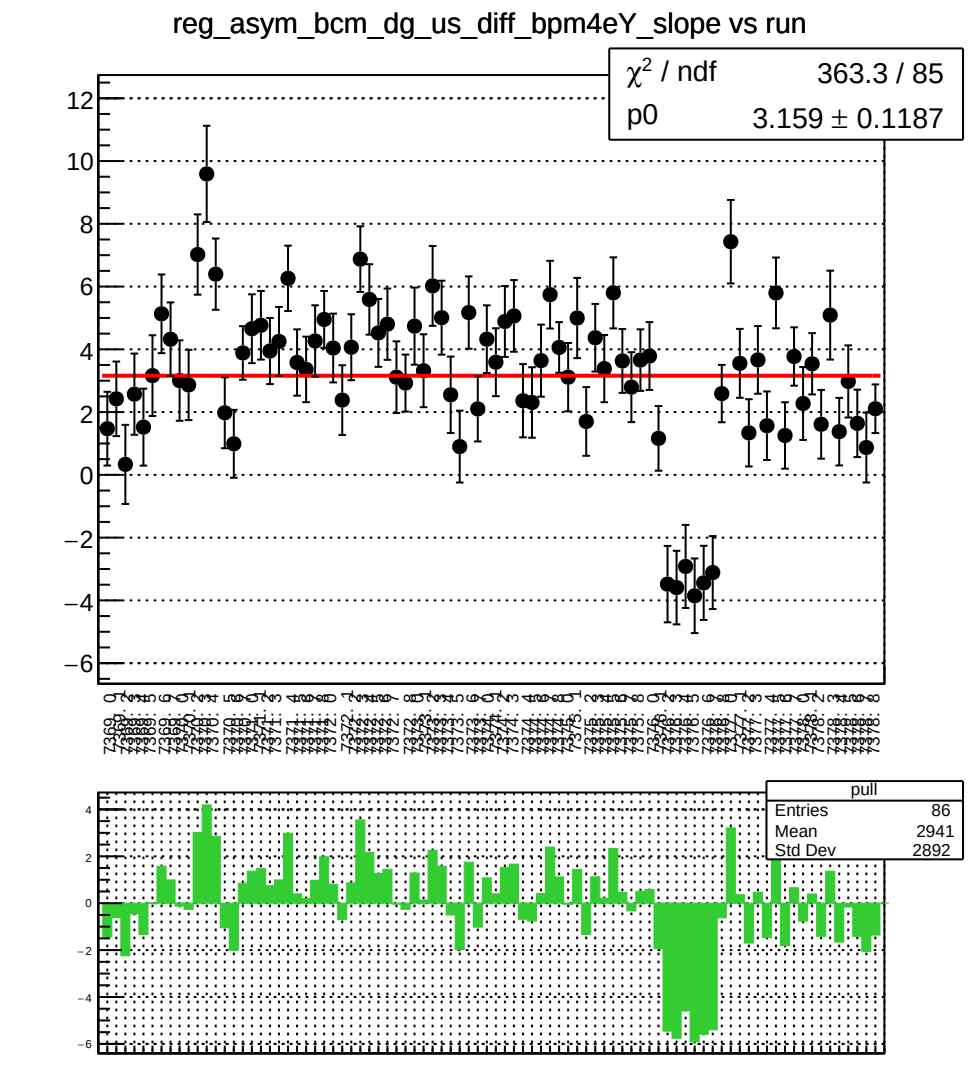

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 570.6 / 85
p0 −7.601 ± 0.1002
pull
Entries 86
Mean 46.21
Std Dev 34.67

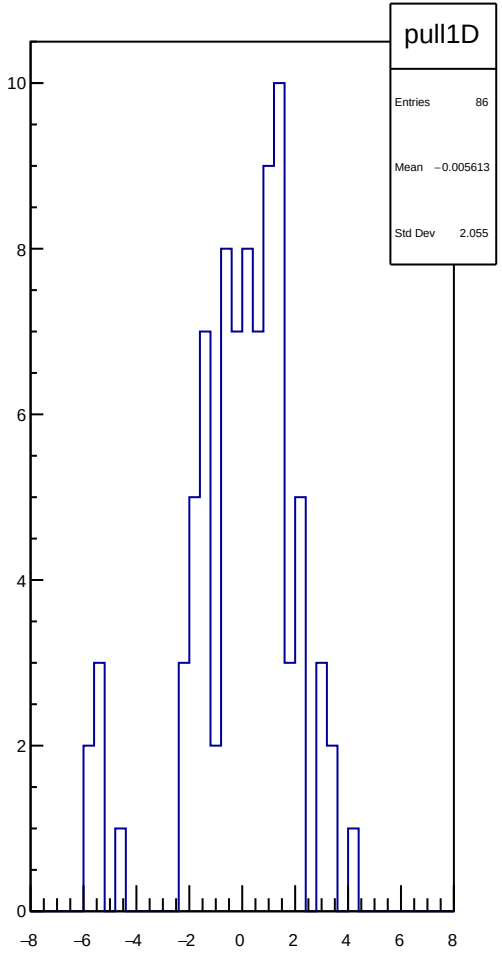

pull1D
Entries 86
Mean −0.3049
Std Dev 2.558

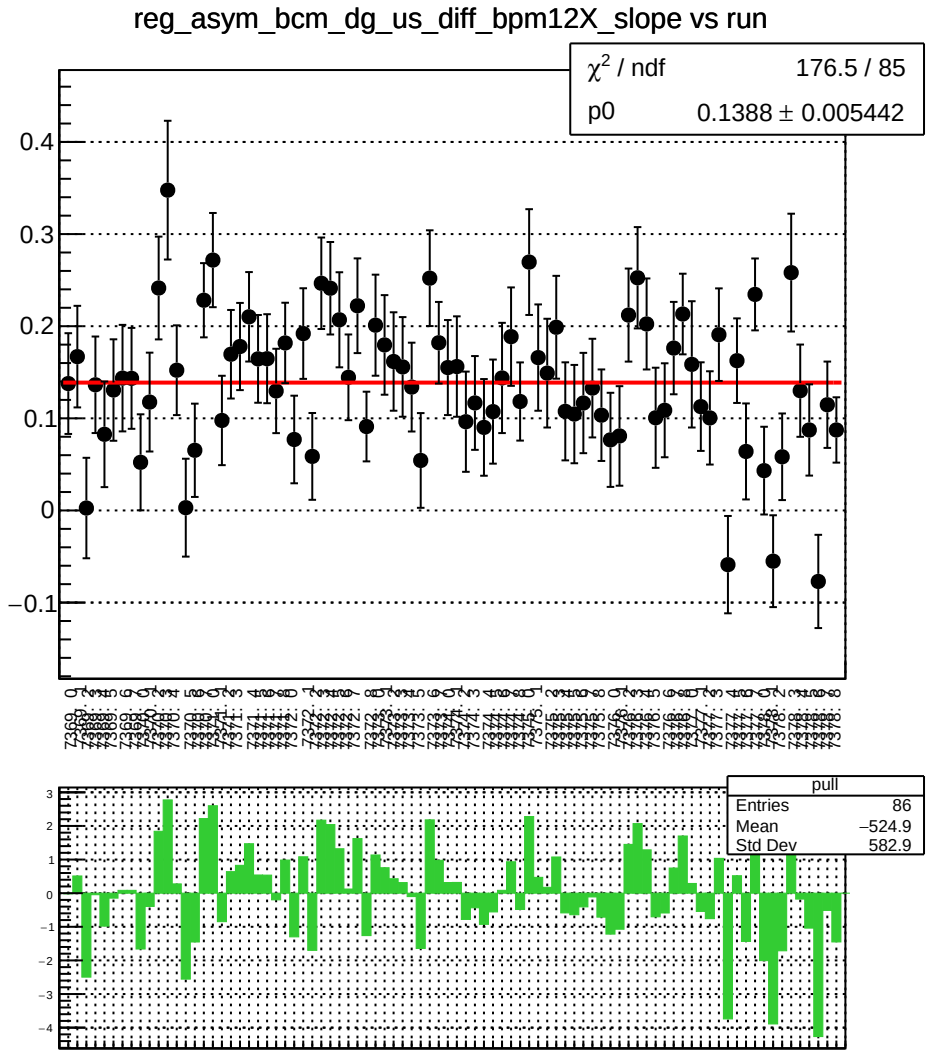

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 355.7 / 85
p0 −3.532 ± 0.1112
pull
Entries 86
Mean −3764
Std Dev 3813

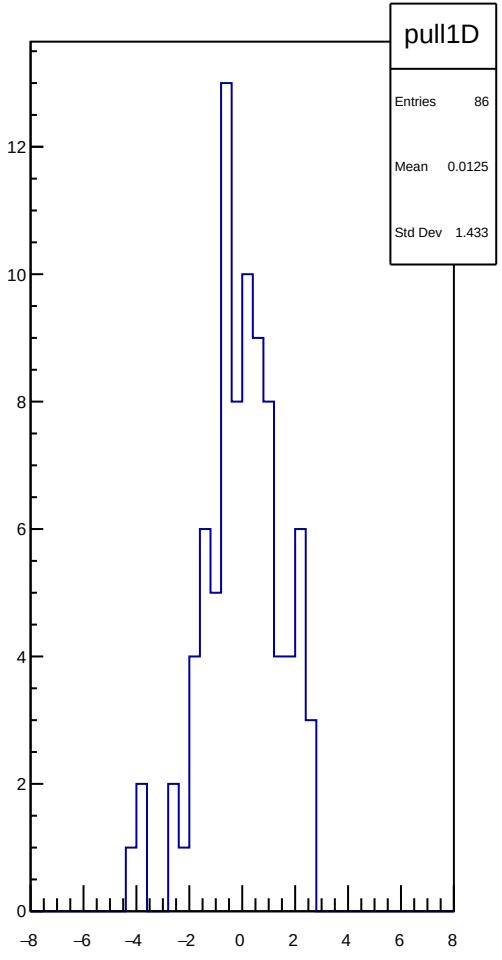

pull1D
Entries 86
Mean −0.003305
Std Dev 2.034

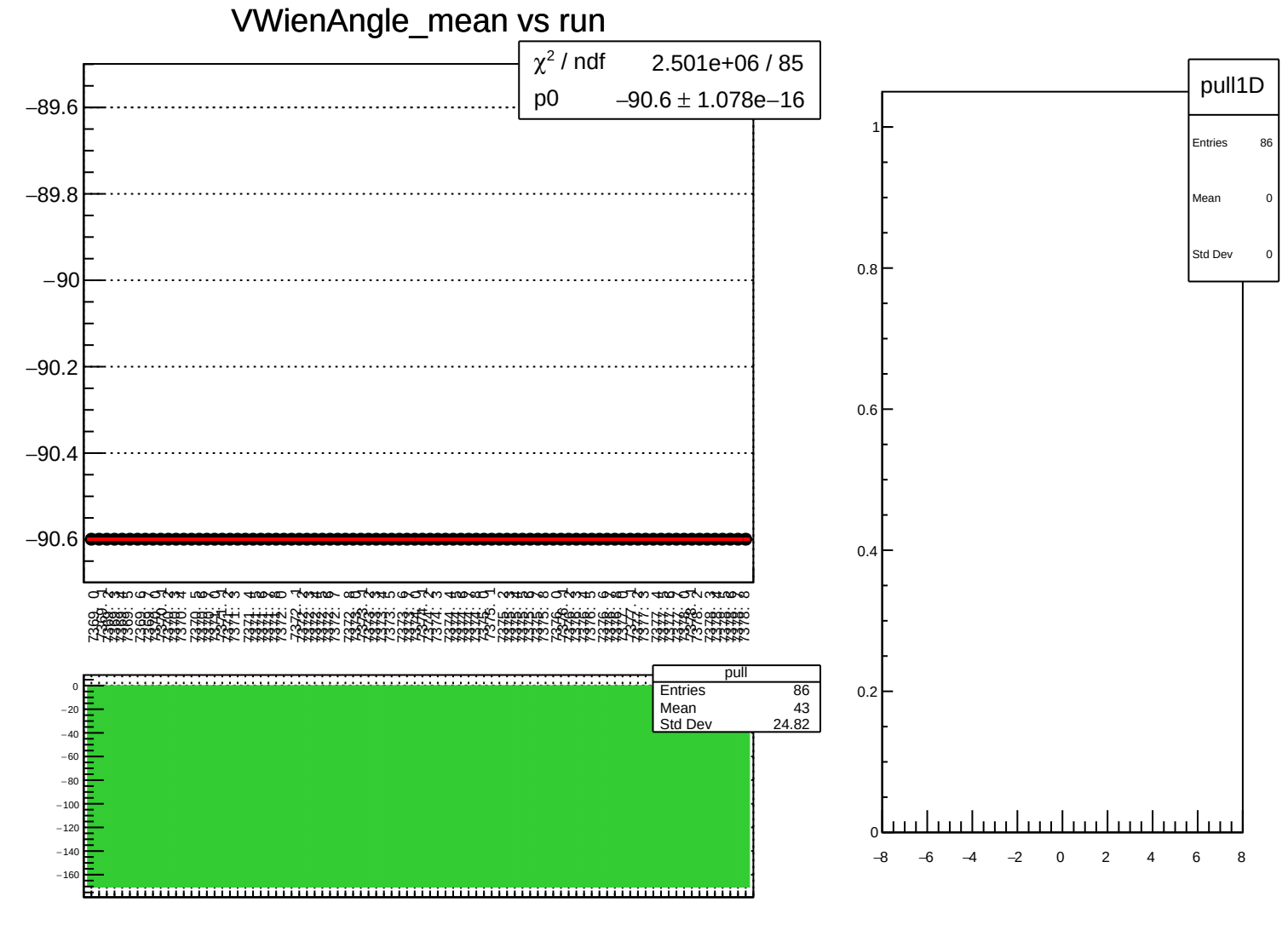

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 569.3 / 85
p0 8.005 ± 0.1042
pull
Entries 86
Mean 52.92
Std Dev 32.05
pull1D
Entries 86
Mean 0.2124
Std Dev 2.422

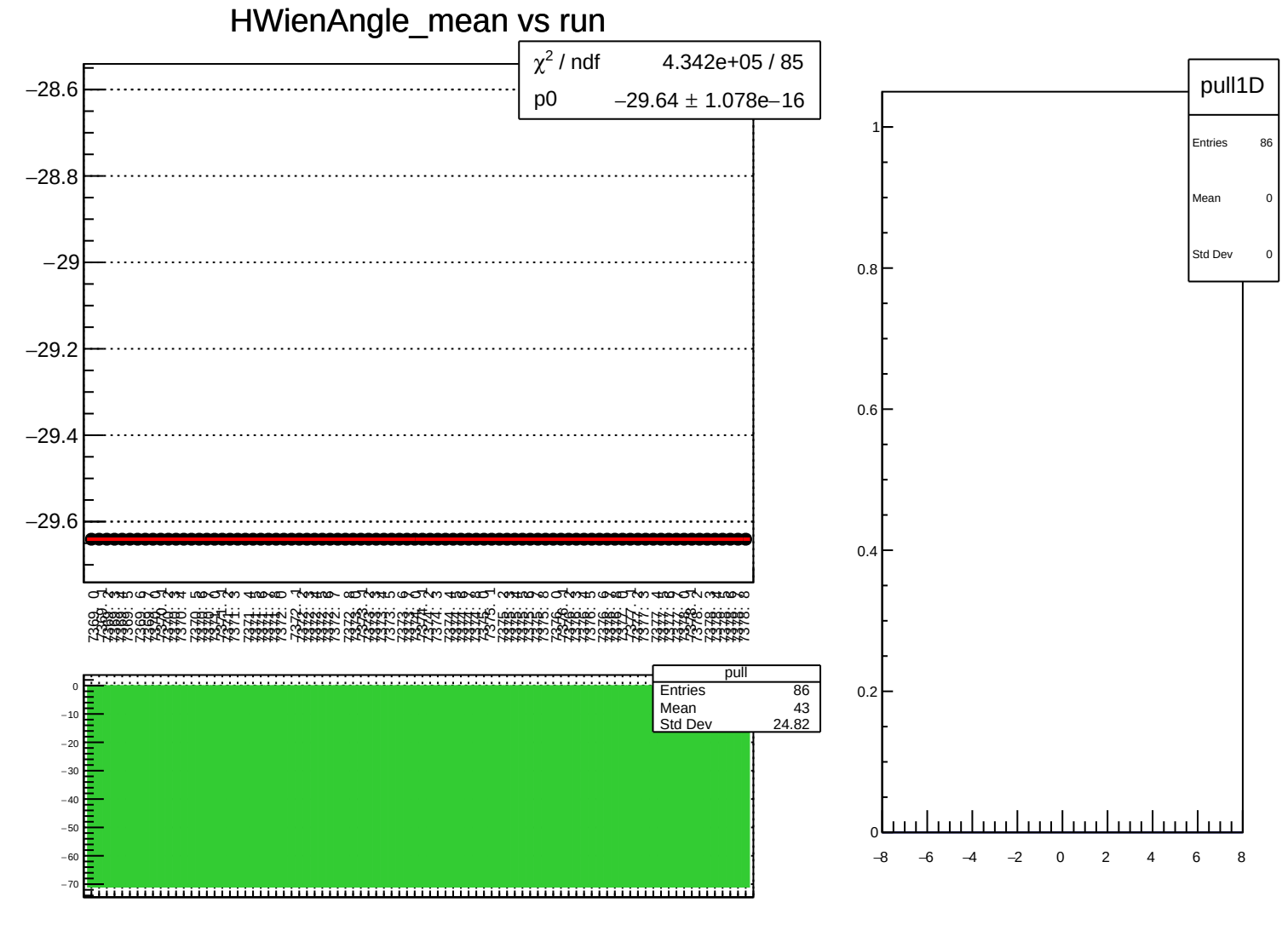

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 363.3 / 85
p0 3.159 ± 0.1187
pull
Entries 86
Mean 2941
Std Dev 2892

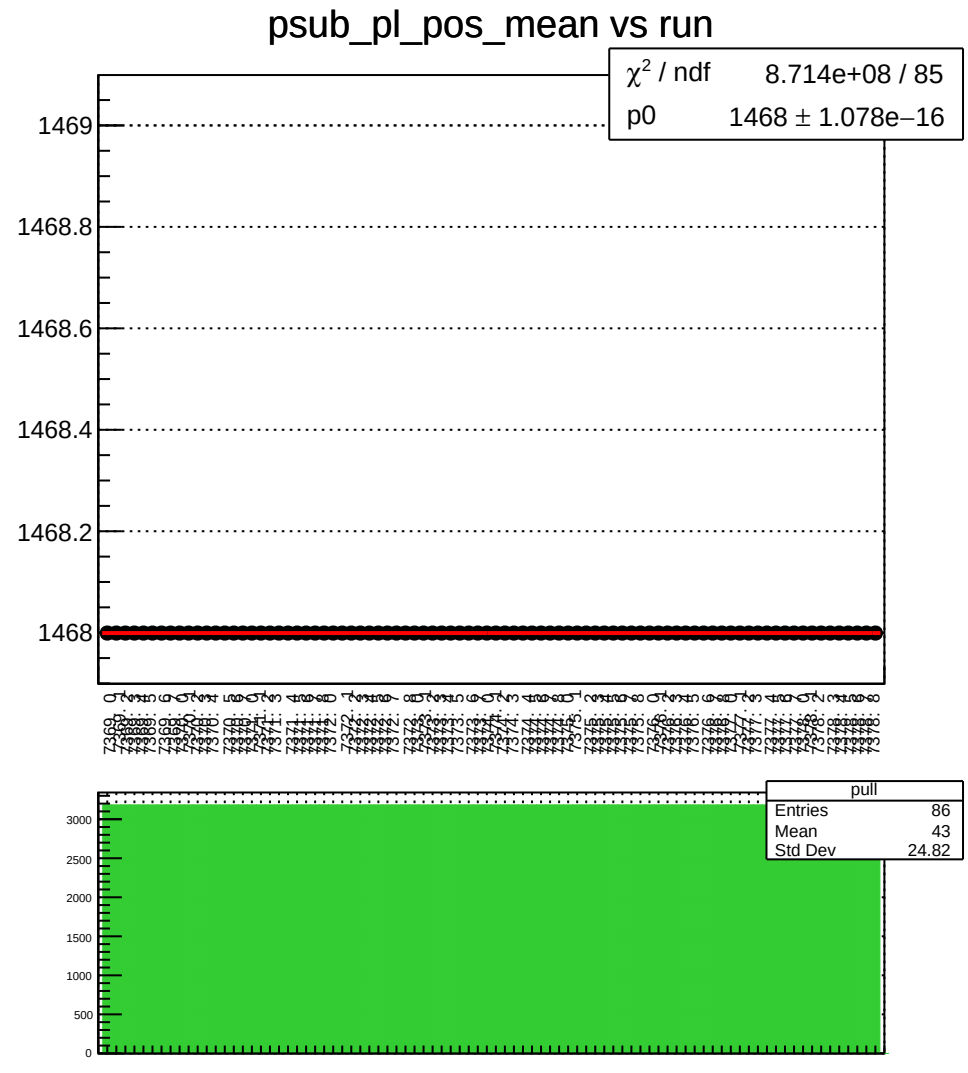

pull1D
Entries 86
Mean −0.005613
Std Dev 2.055

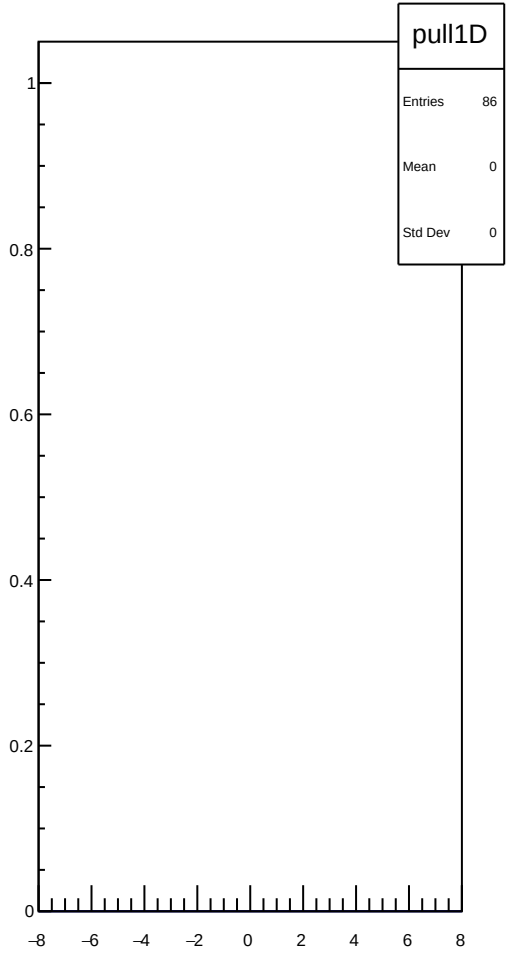

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 176.5 / 85
p0 0.1388 ± 0.005442
pull
Entries 86
Mean −524.9
Std Dev 582.9

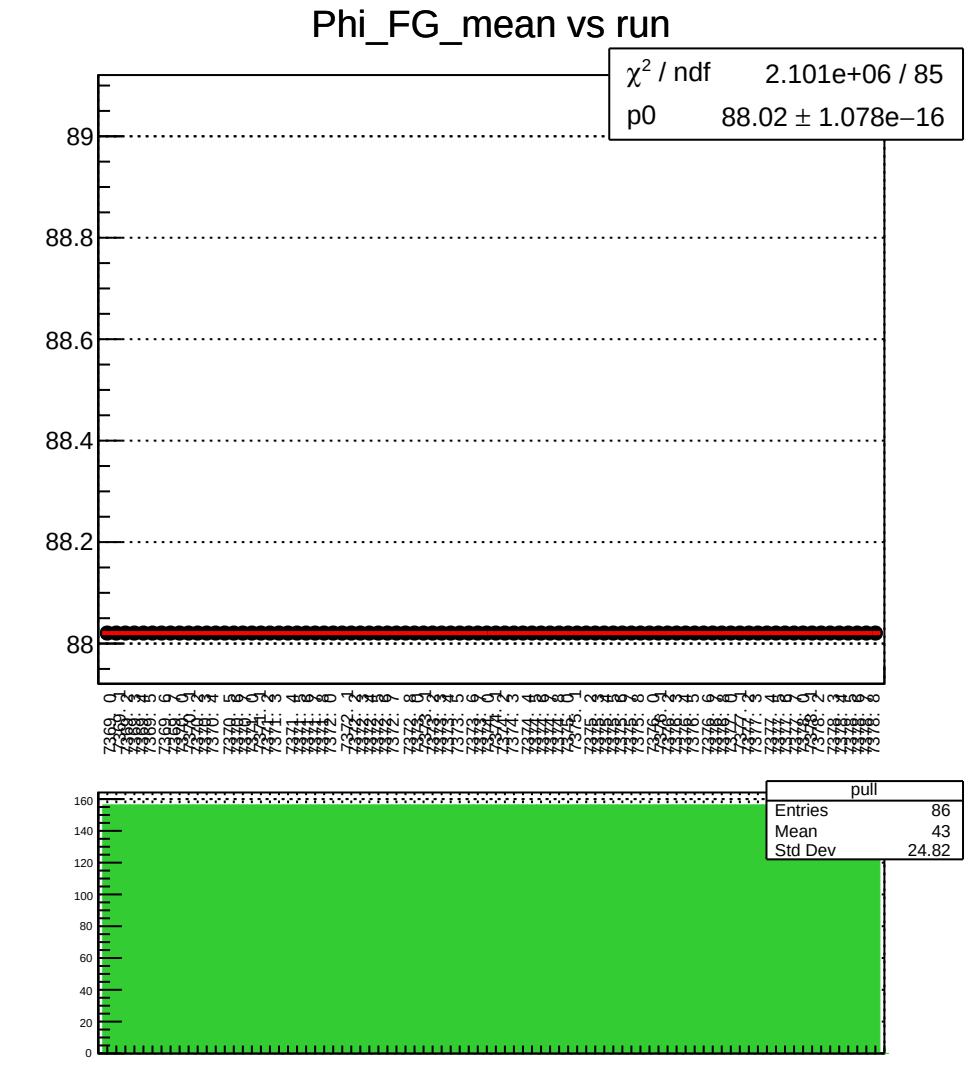

pull1D
Entries 86
Mean 0.0125
Std Dev 1.433

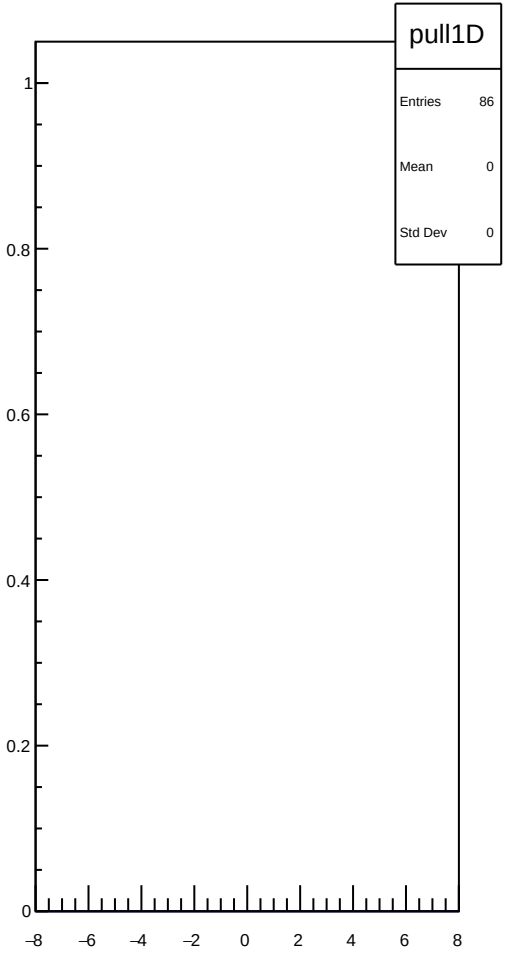

VWienAngle_mean vs run
χ² / ndf 2.501e+06 / 85
p0 −90.6 ± 1.078e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 86
Mean 43
Std Dev 24.82
0
−20
−40
−60
−80
−100
−120
−140
−160
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

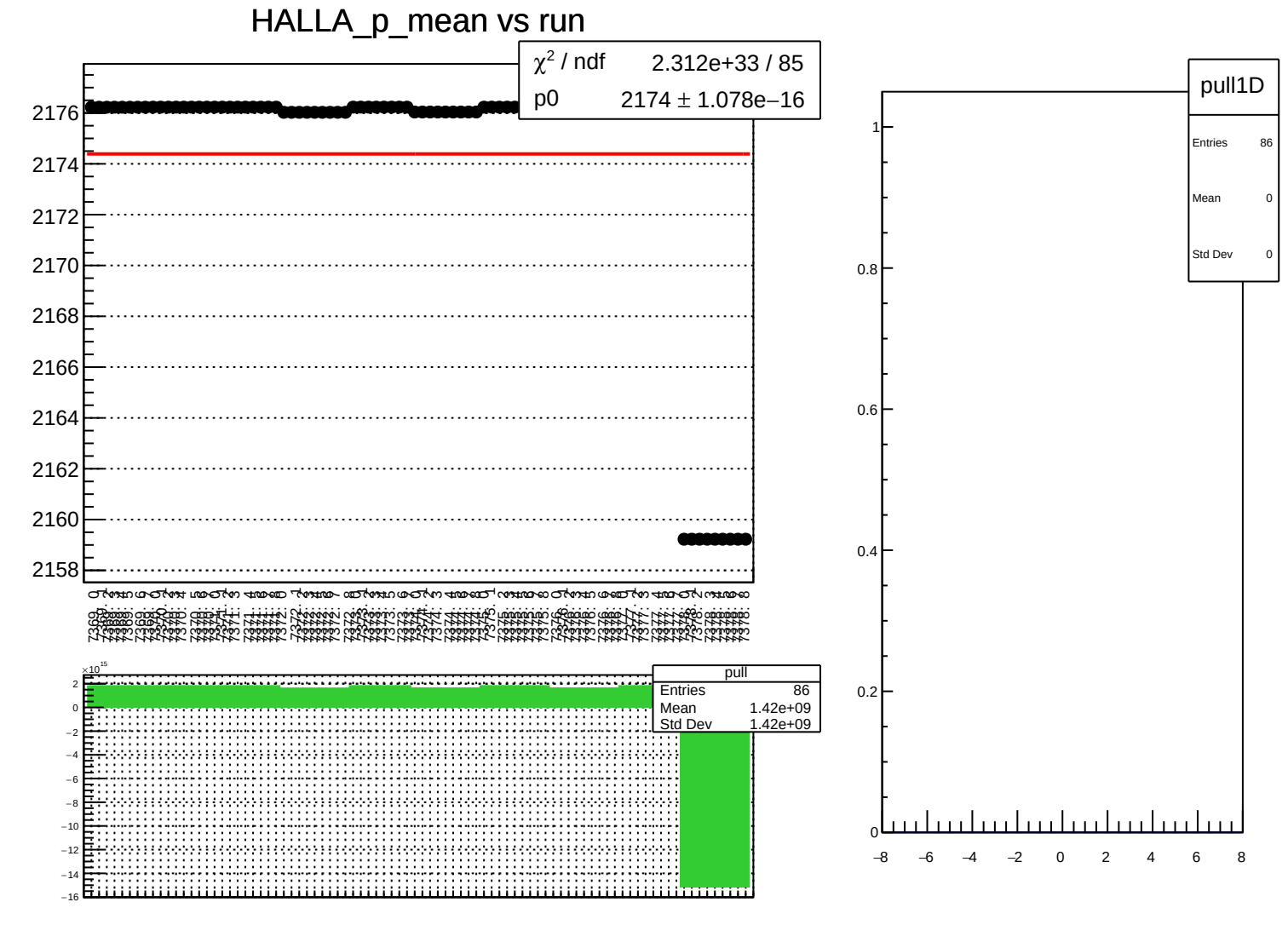

HWienAngle_mean vs run
χ² / ndf 4.342e+05 / 85
p0 −29.64 ± 1.078e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 86
Mean 43
Std Dev 24.82
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

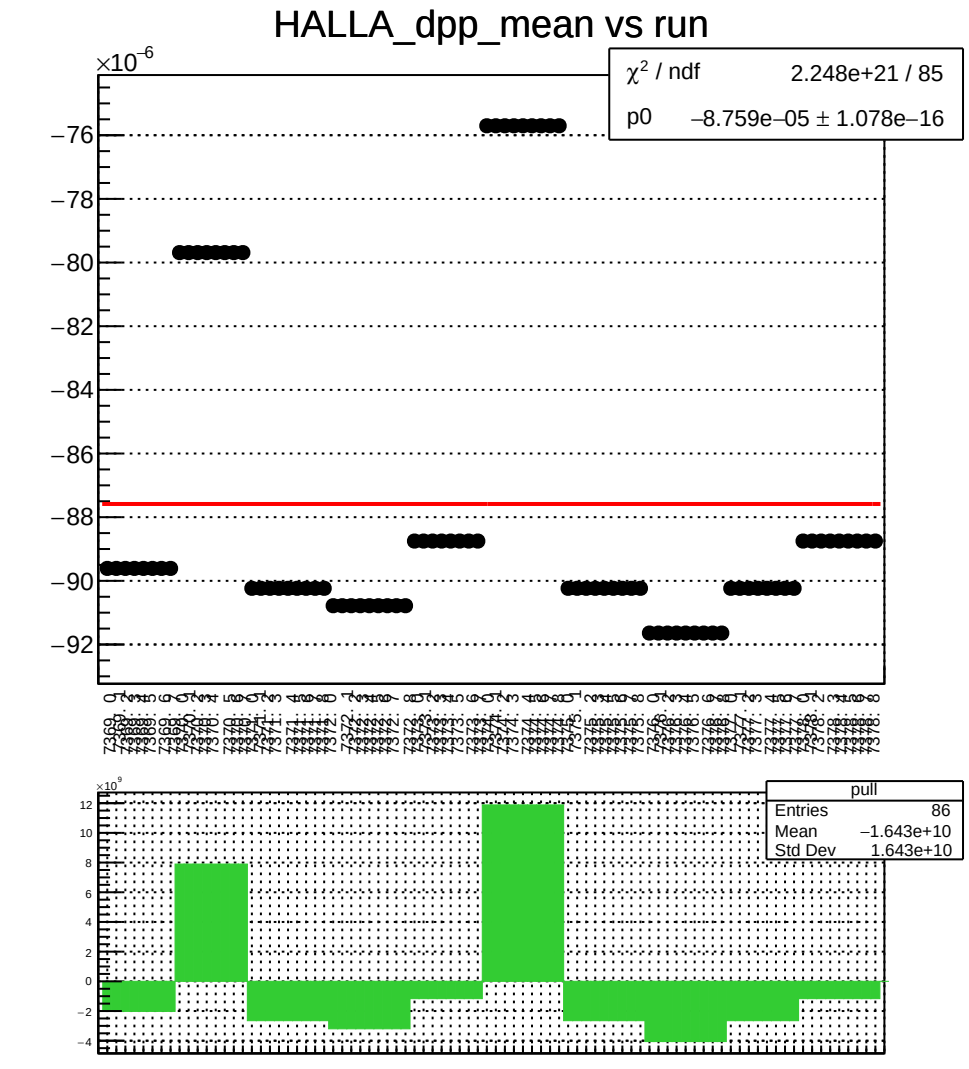

psub_pl_pos_mean vs run
χ² / ndf 8.714e+08 / 85
p0 1468 ± 1.078e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 86
Mean 43
Std Dev 24.82
3000
2500
2000
1500
1000
500
0

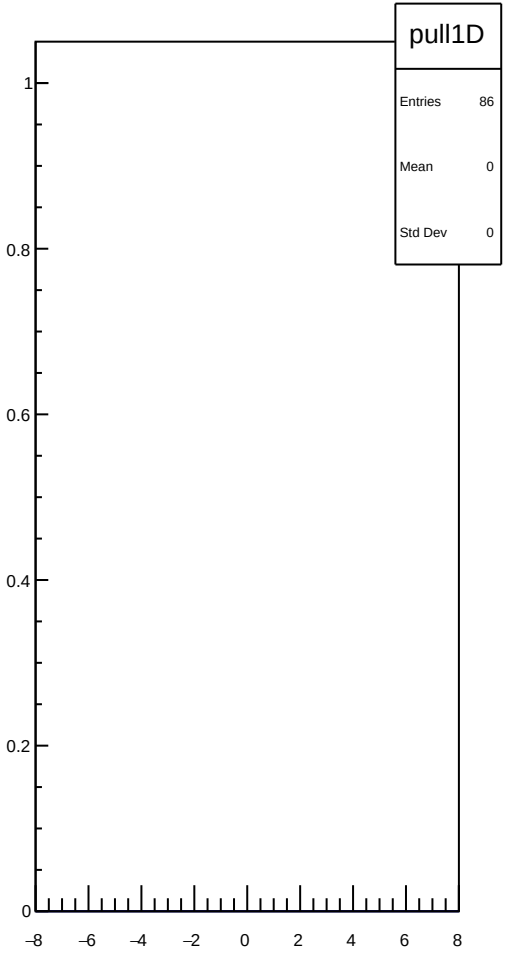

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

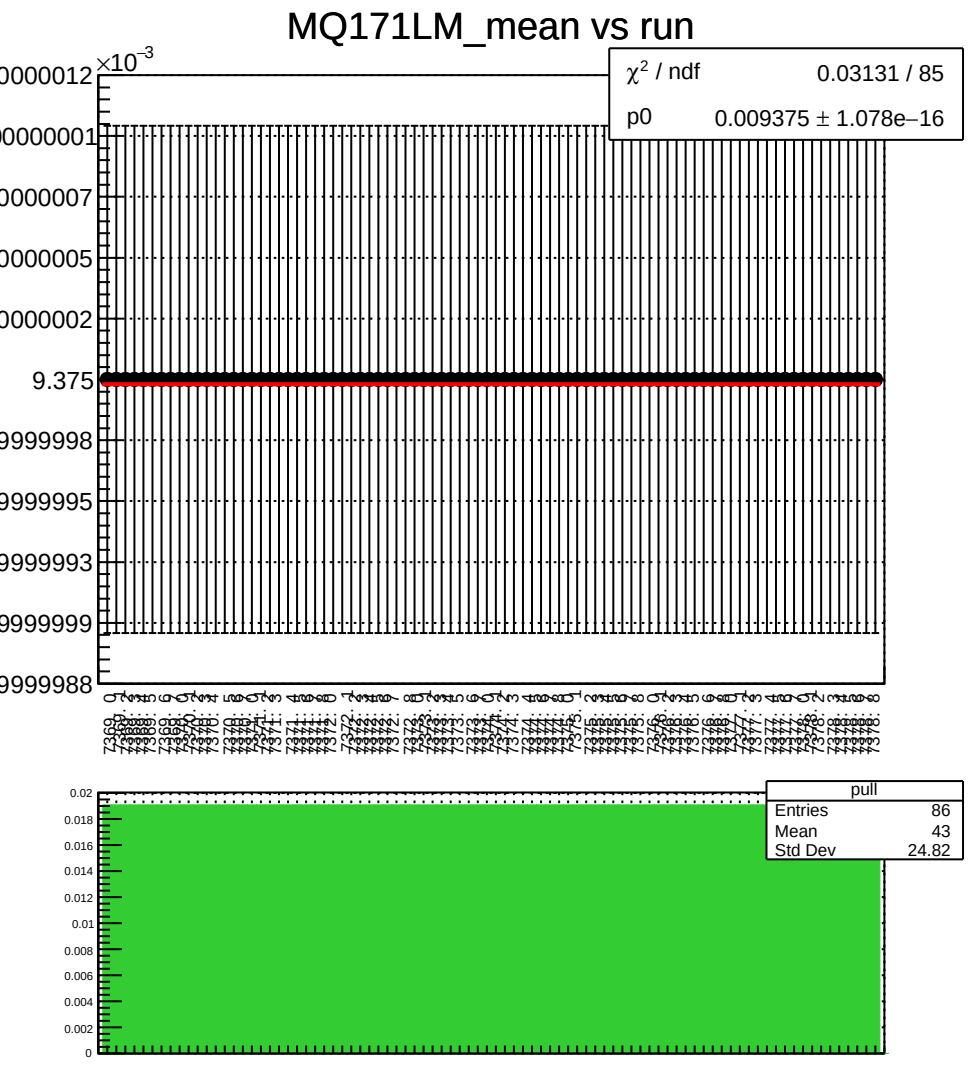

Phi_FG_mean vs run
χ² / ndf 2.101e+06 / 85
p0 88.02 ± 1.078e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 86
Mean 43
Std Dev 24.82
160
140
120
100
80
60
40
20
0

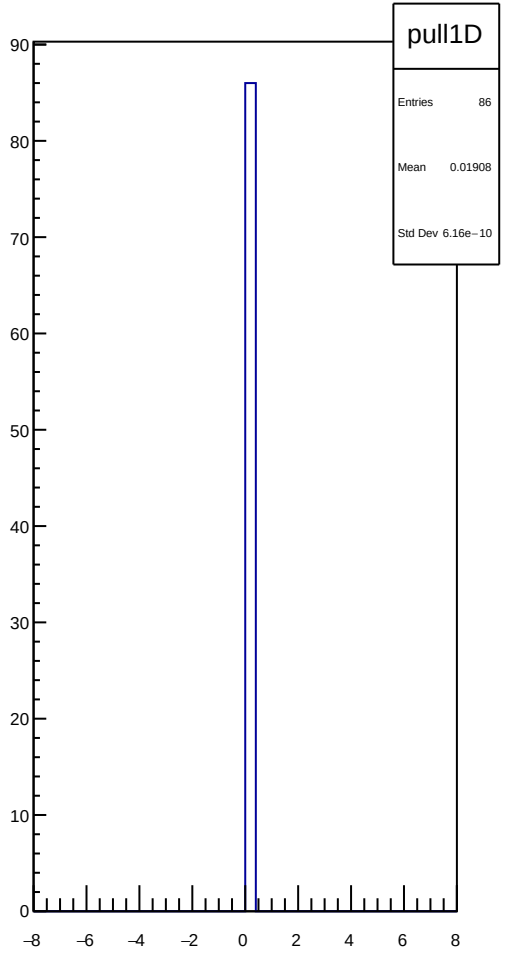

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

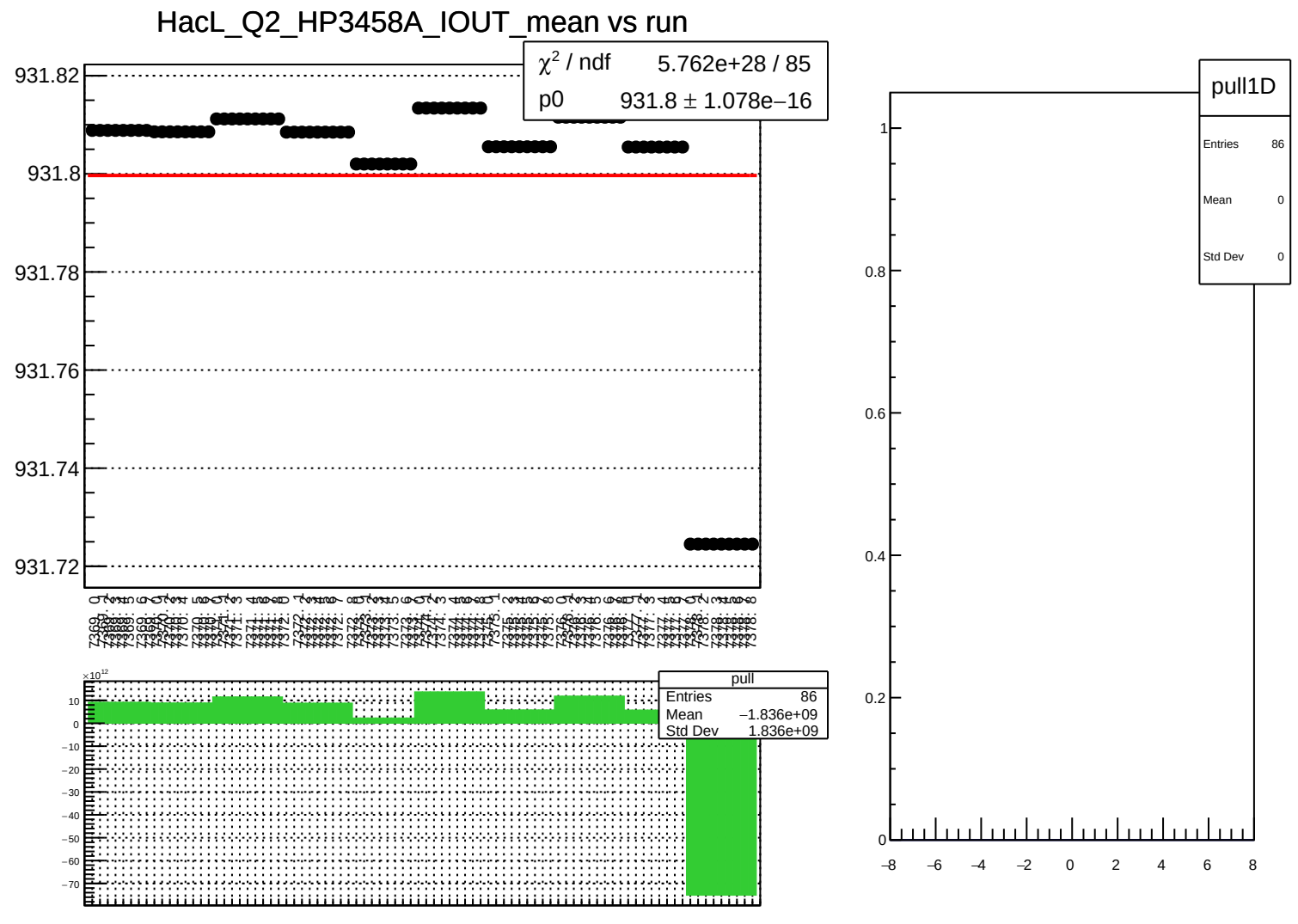

HALLA_p_mean vs run
χ² / ndf 2.312e+33 / 85
p0 2174 ± 1.078e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 86
Mean 1.42e+09
Std Dev 1.42e+09
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
−16
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

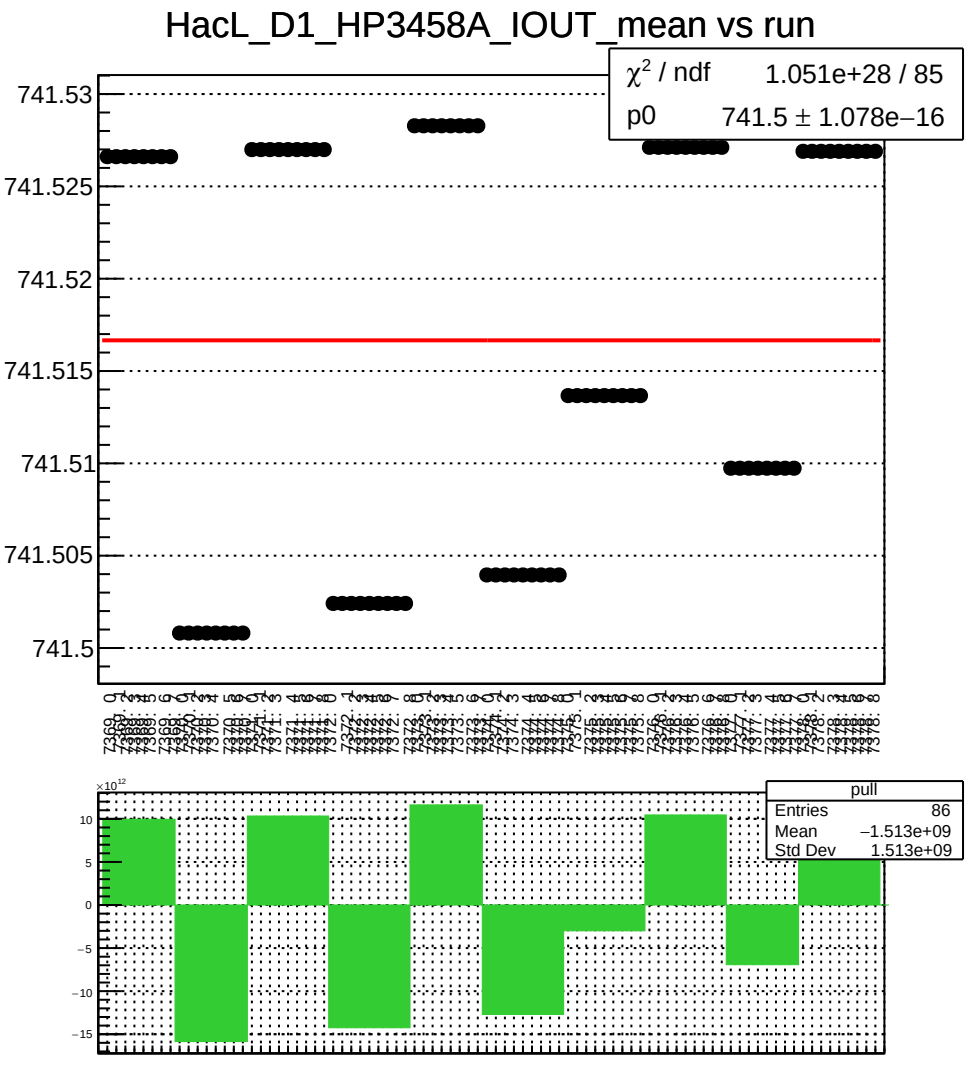

HALLA_dpp_mean vs run
×10⁻⁶
χ² / ndf 2.248e+21 / 85
p0 −8.759e−05 ± 1.078e−16
−76
−78
−80
−82
−84
−86
−88
−90
−92
×10⁹
pull
Entries 86
Mean −1.643e+10
Std Dev 1.643e+10
12
10
8
6
4
2
0
−2
−4

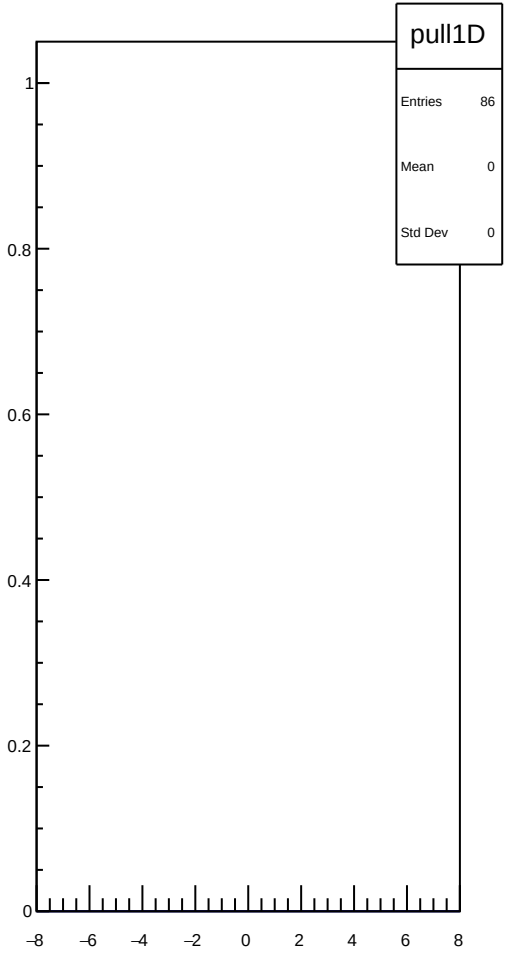

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

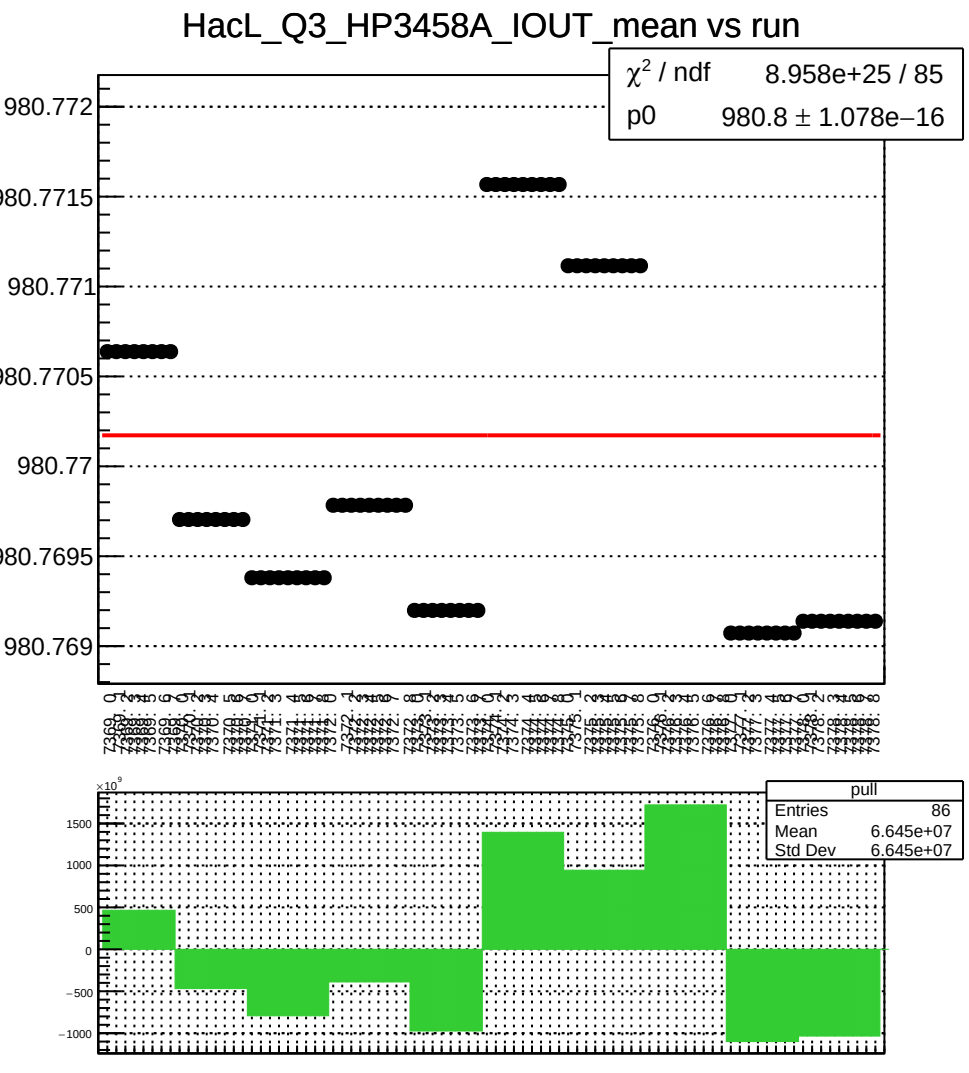

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
9.375
pull
Entries 86
Mean 43
Std Dev 24.82

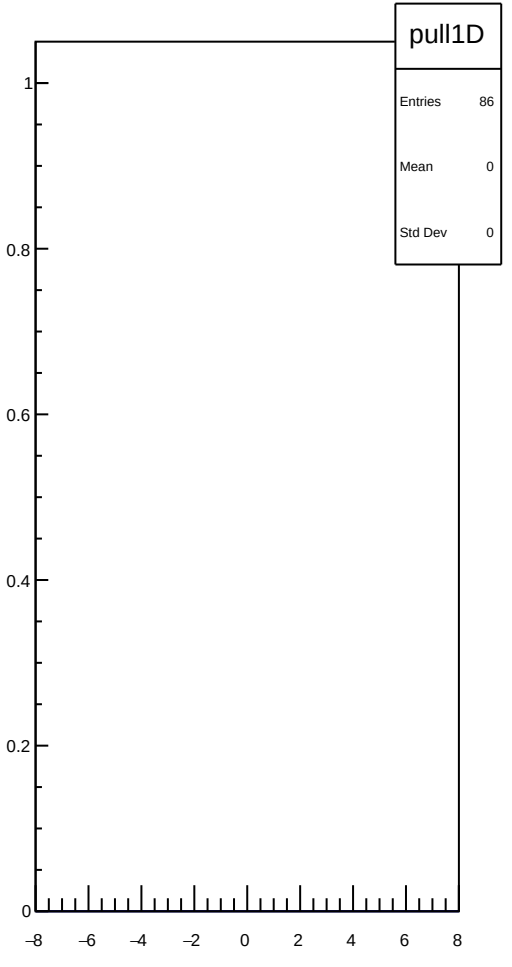

pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10

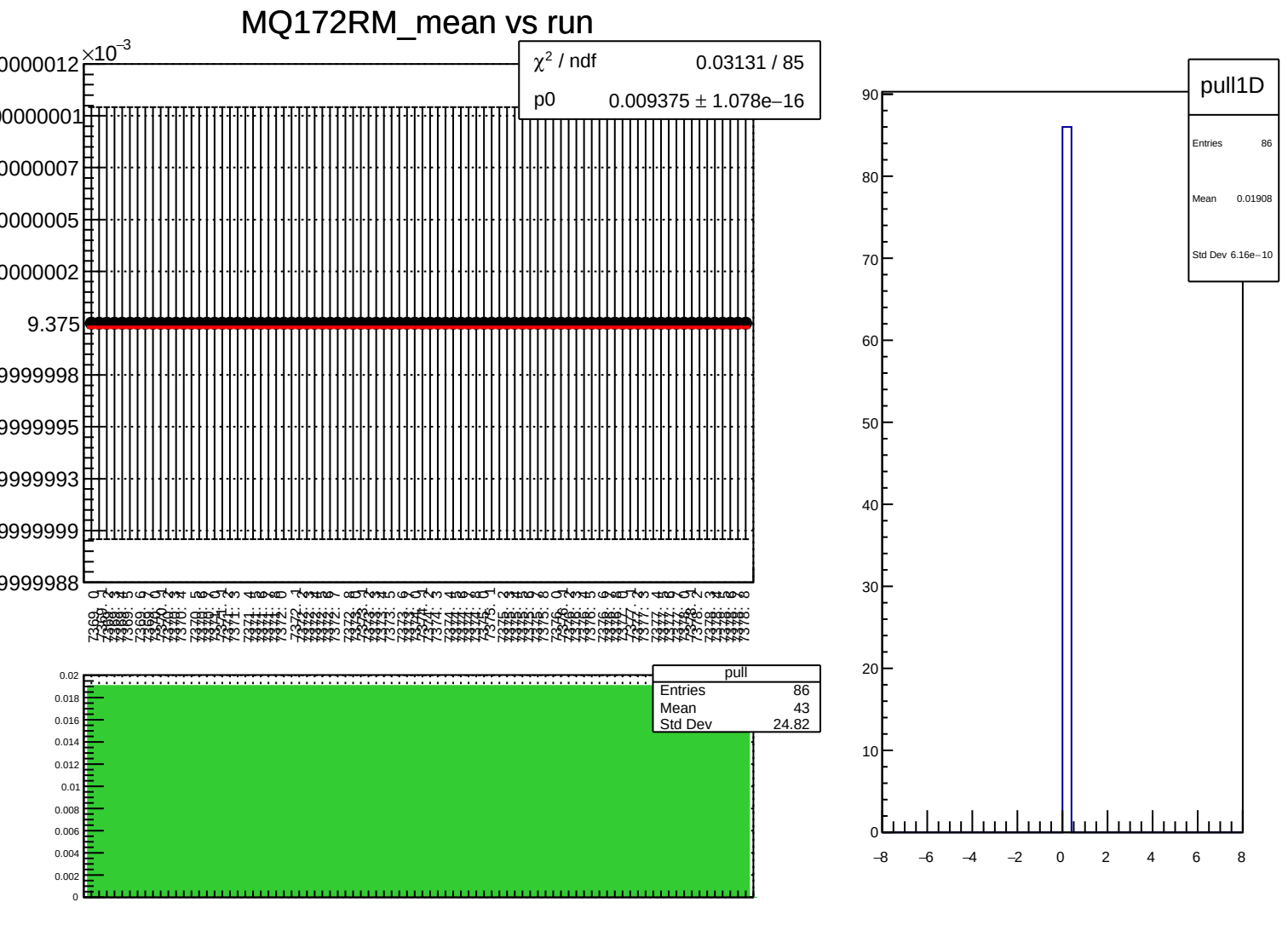

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 5.762e+28 / 85
p0 931.8 ± 1.078e−16
931.82
931.8
931.78
931.76
931.74
931.72
×10¹²
10
0
−10
−20
−30
−40
−50
−60
−70
pull
Entries 86
Mean −1.836e+09
Std Dev 1.836e+09
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

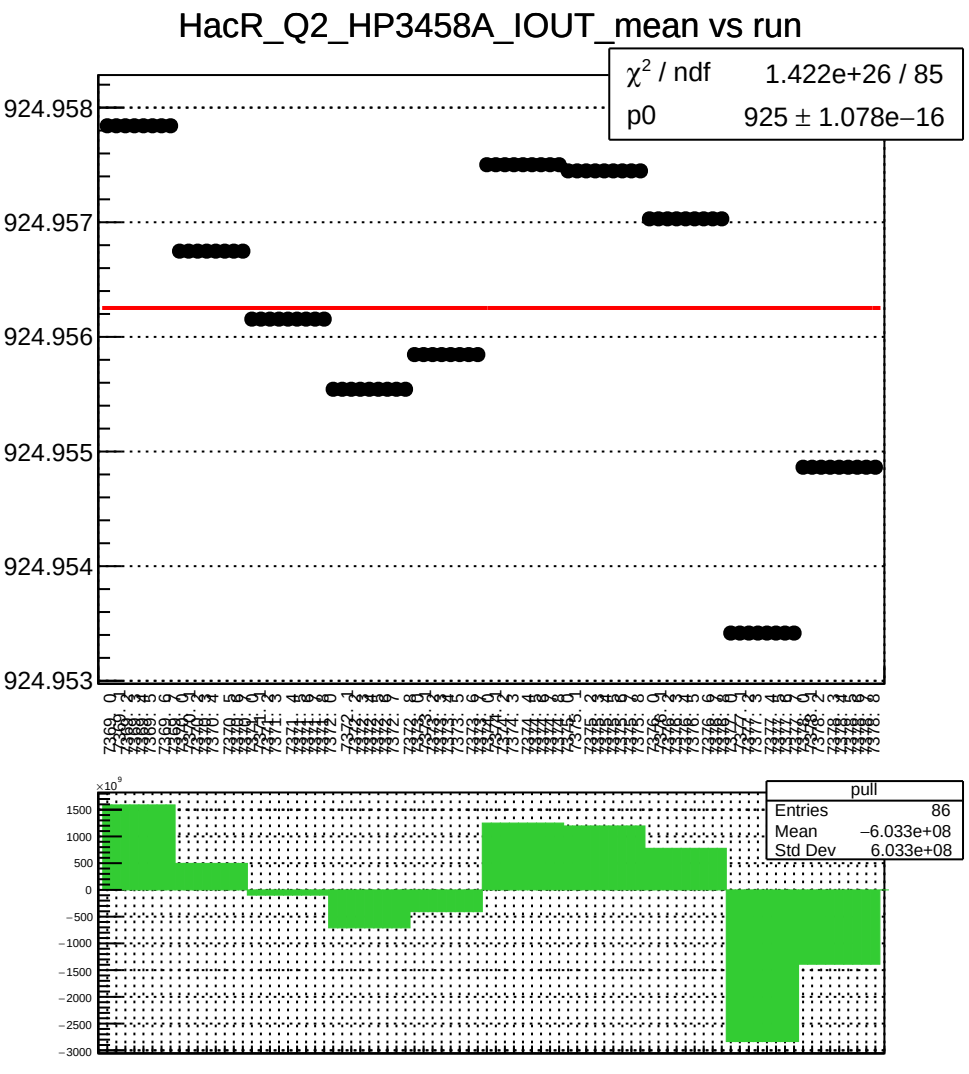

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.051e+28 / 85
p0 741.5 ± 1.078e−16
741.53
741.525
741.52
741.515
741.51
741.505
741.5
pull
Entries 86
Mean −1.513e+09
Std Dev 1.513e+09
×10¹²
10
5
0
−5
−10
−15

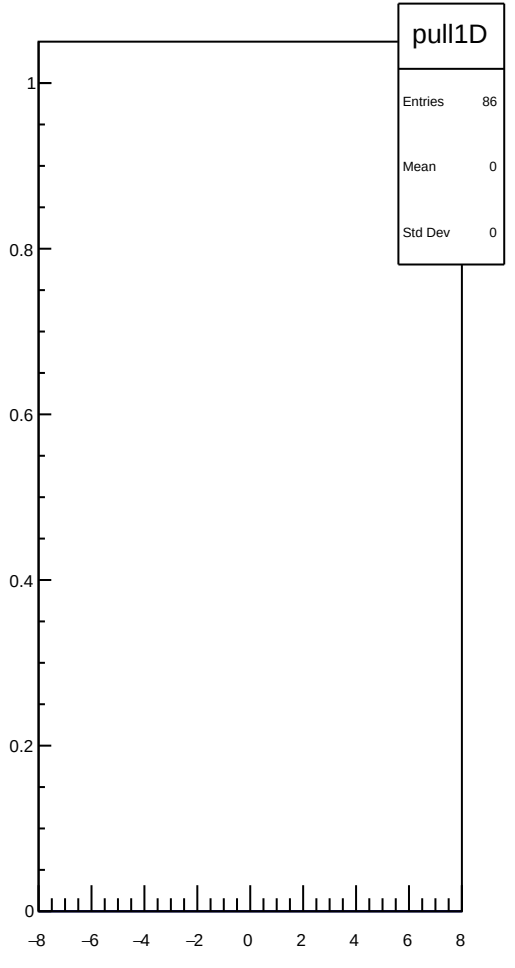

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

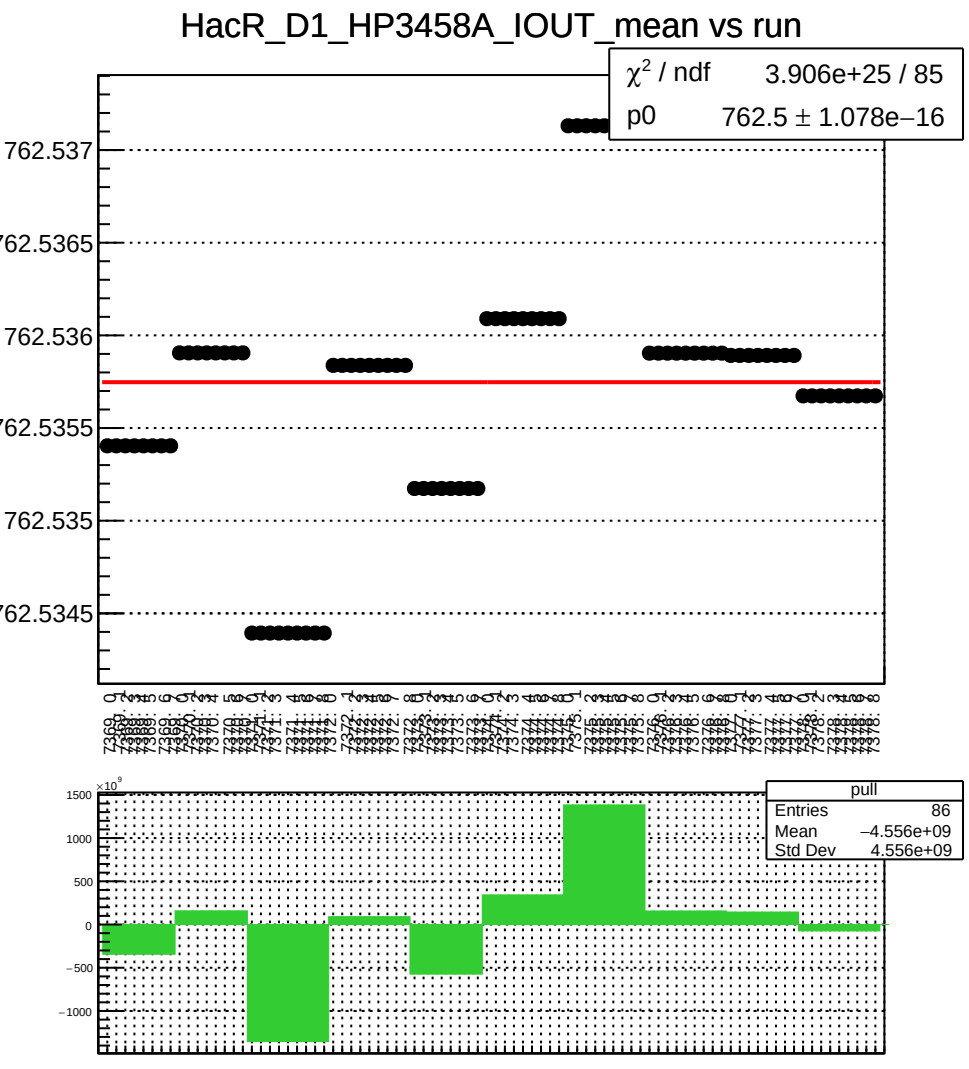

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 8.958e+25 / 85
p0 980.8 ± 1.078e−16
980.772
980.7715
980.771
980.7705
980.77
980.7695
980.769
×10⁹
1500
1000
500
0
−500
−1000
pull
Entries 86
Mean 6.645e+07
Std Dev 6.645e+07

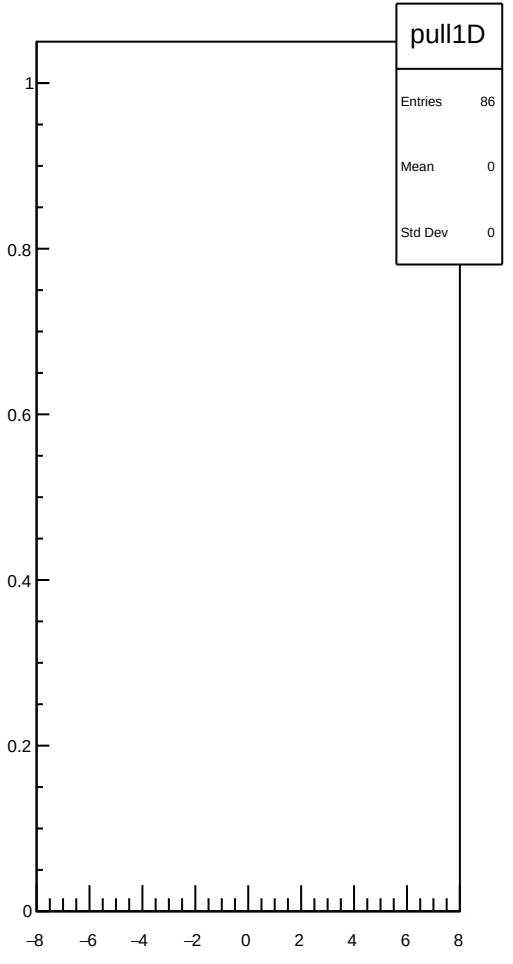

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

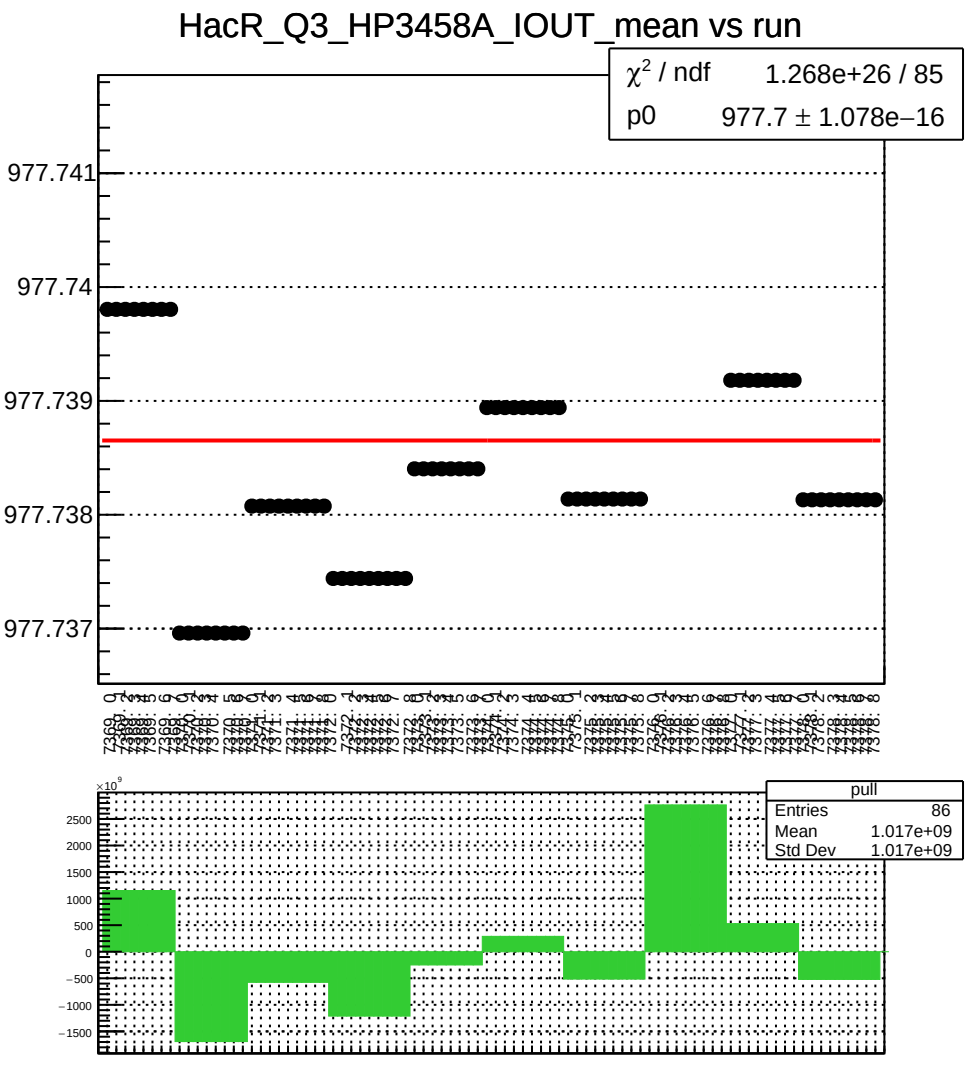

MQ172RM_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
9.375
pull
Entries 86
Mean 43
Std Dev 24.82
pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10

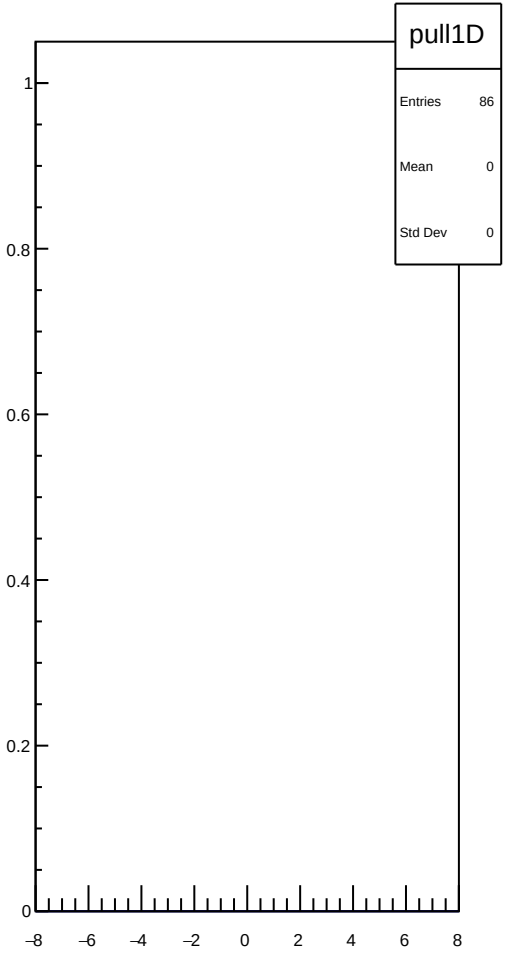

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.422e+26 / 85
p0 925 ± 1.078e−16
924.958
924.957
924.956
924.955
924.954
924.953
pull
Entries 86
Mean −6.033e+08
Std Dev 6.033e+08
×10⁹
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

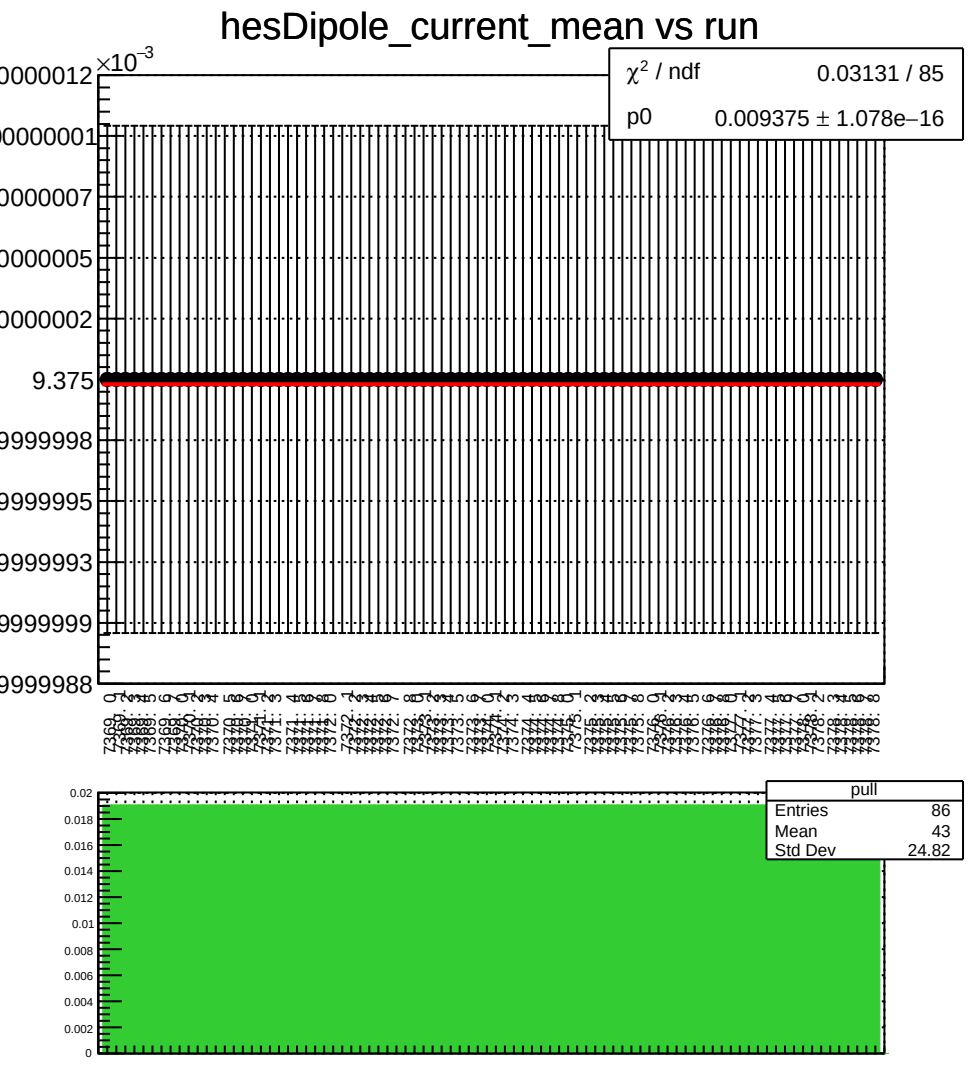

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

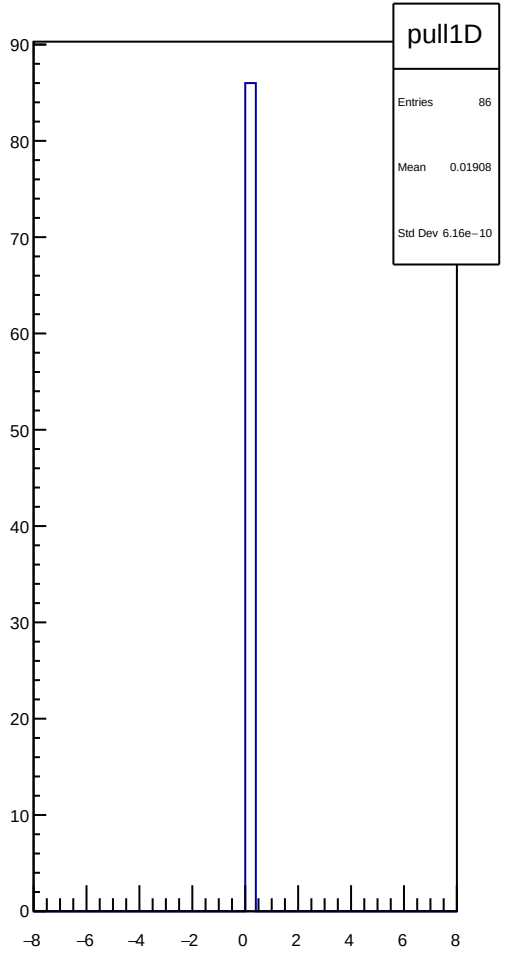

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.906e+25 / 85
p0 762.5 ± 1.078e−16
762.537
762.5365
762.536
762.5355
762.535
762.5345
×10⁹
1500
1000
500
0
−500
−1000
pull
Entries 86
Mean −4.556e+09
Std Dev 4.556e+09

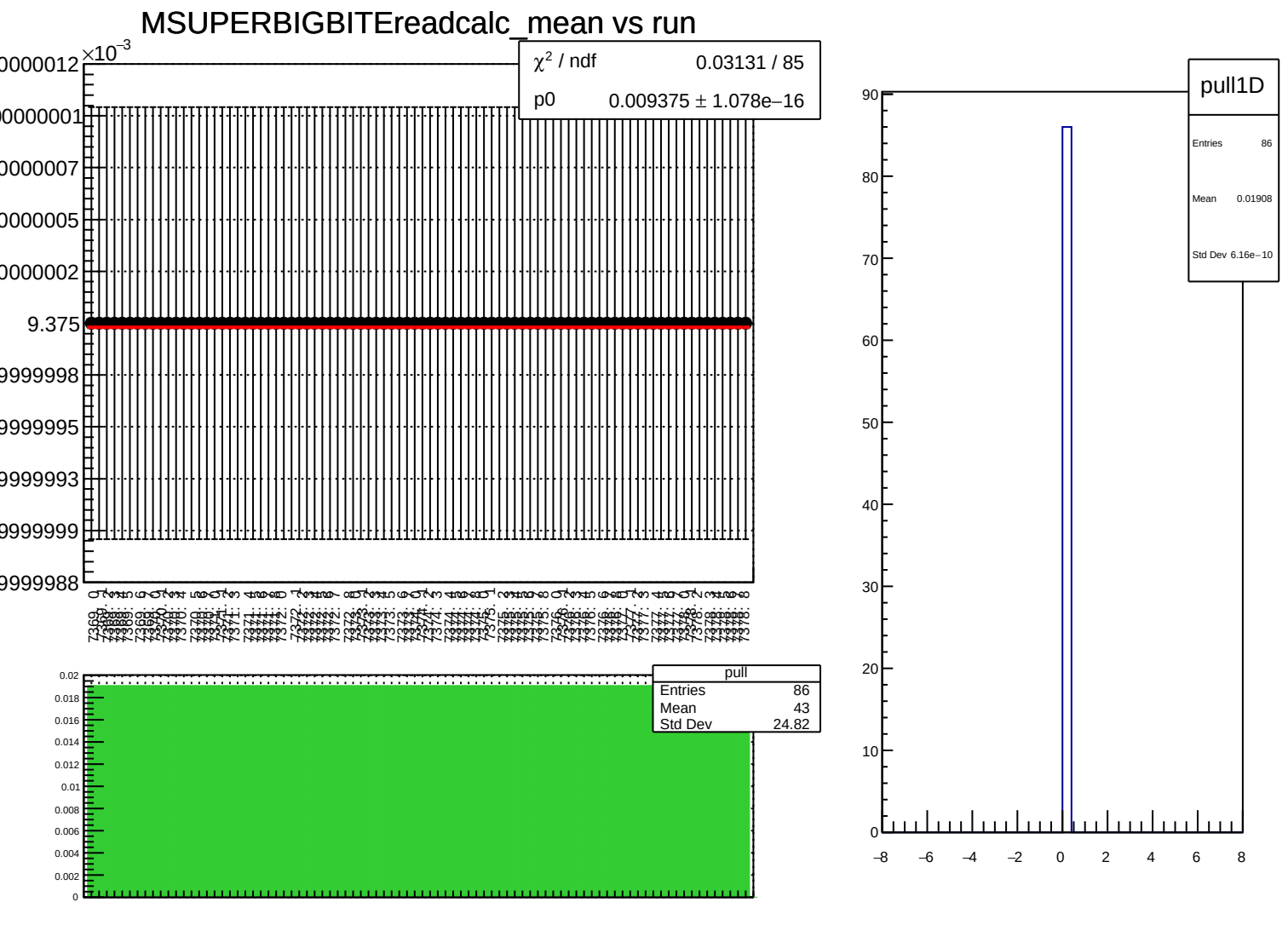

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

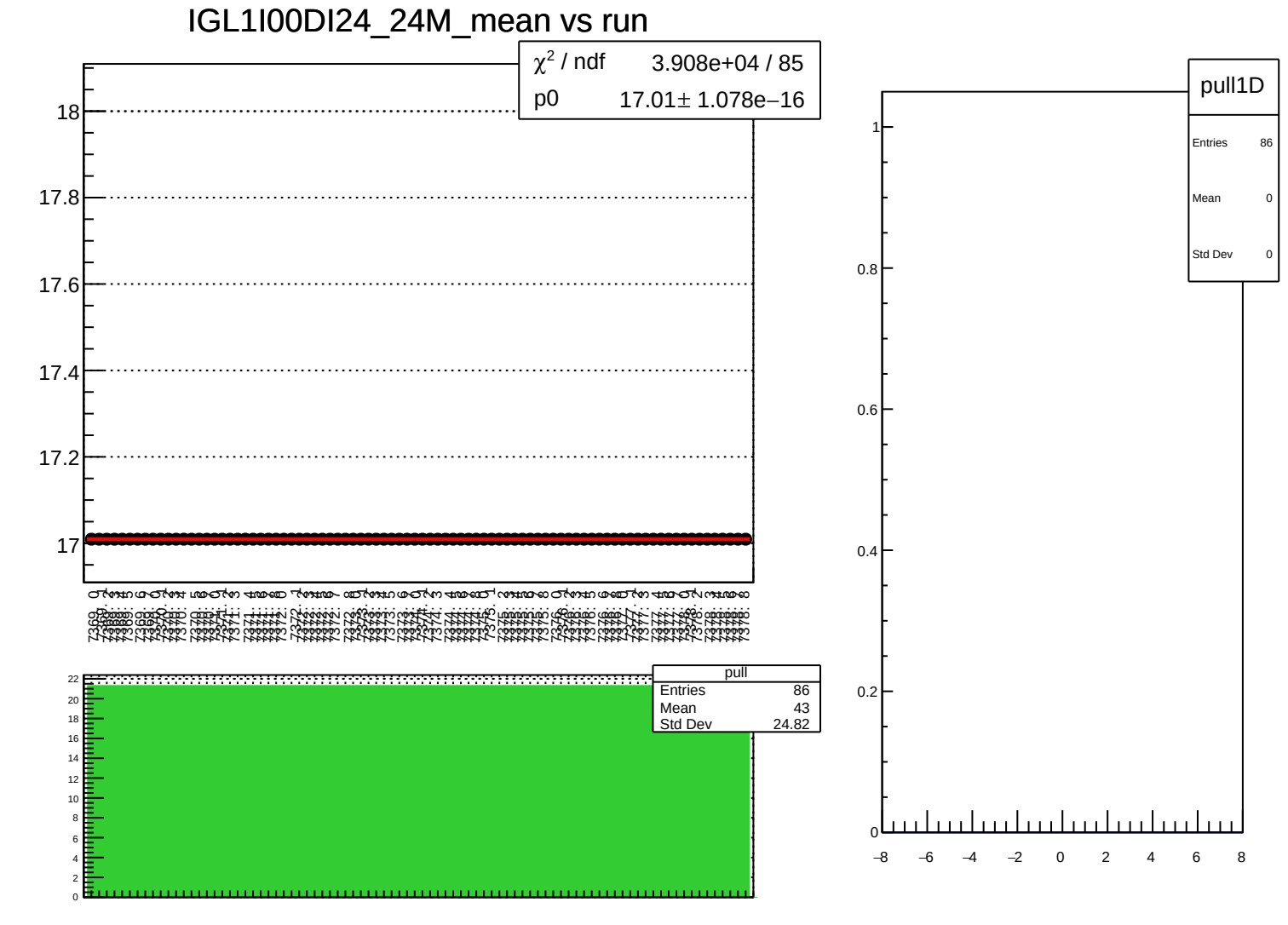

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.268e+26 / 85
p0 977.7 ± 1.078e−16
977.741
977.74
977.739
977.738
977.737
pull
Entries 86
Mean 1.017e+09
Std Dev 1.017e+09
×10⁹
2500
2000
1500
1000
500
0
−500
−1000
−1500

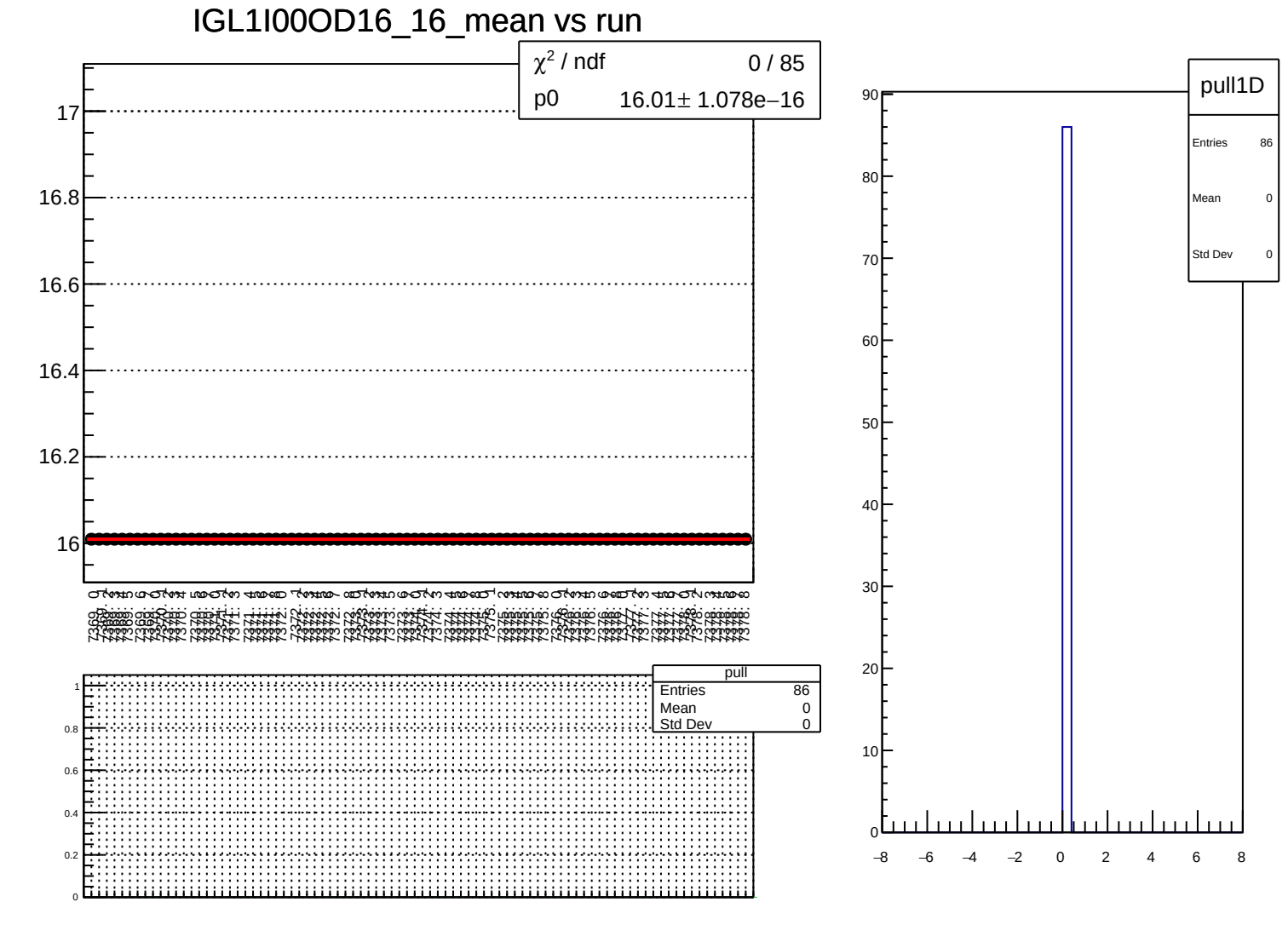

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

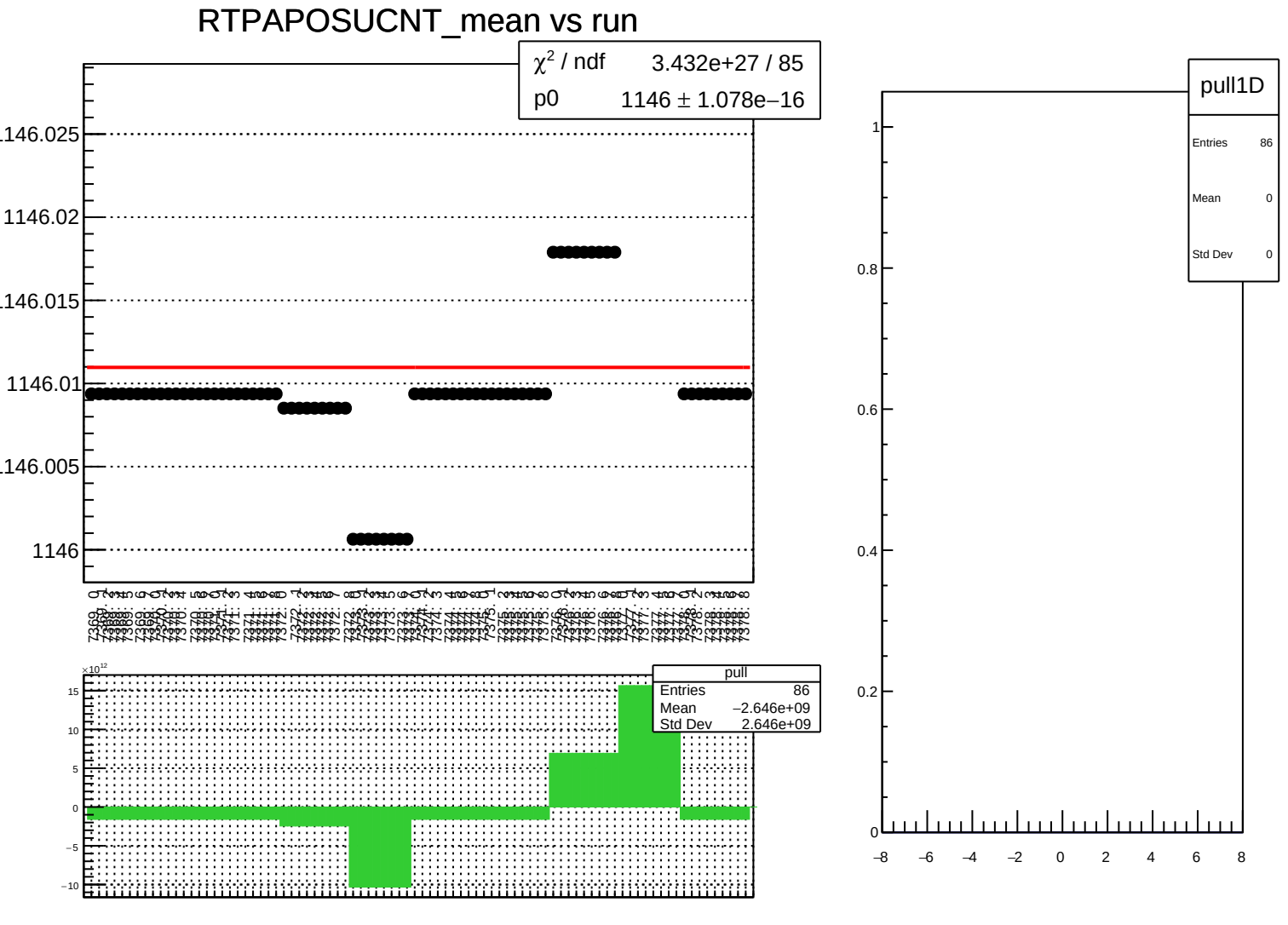

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
9.375
pull
Entries 86
Mean 43
Std Dev 24.82

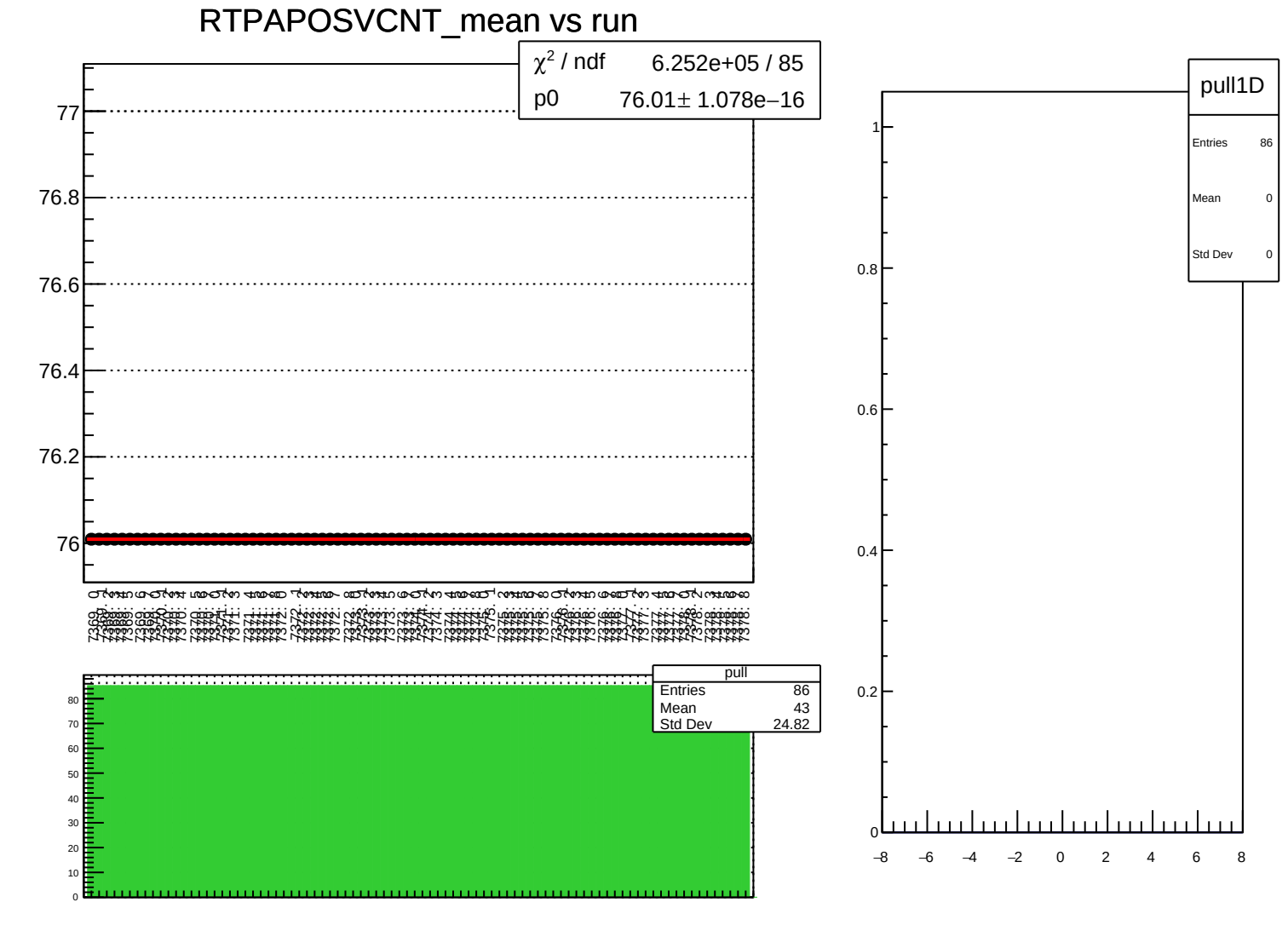

pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10


MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
9.375
pull
Entries 86
Mean 43
Std Dev 24.82
pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10


IGL1I00DI24_24M_mean vs run
χ² / ndf 3.908e+04 / 85
p0 17.01± 1.078e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 86
Mean 43
Std Dev 24.82
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 86
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 0 / 85
p0 16.01± 1.078e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 86
Mean 0
Std Dev 0
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 3.432e+27 / 85
p0 1146 ± 1.078e−16
1146.025
1146.02
1146.015
1146.01
1146.005
1146
pull
Entries 86
Mean −2.646e+09
Std Dev 2.646e+09
×10¹²
15
10
5
0
−5
−10
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 6.252e+05 / 85
p0 76.01± 1.078e−16
77
76.8
76.6
76.4
76.2
76
pull
Entries 86
Mean 43
Std Dev 24.82
80
70
60
50
40
30
20
10
0
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8