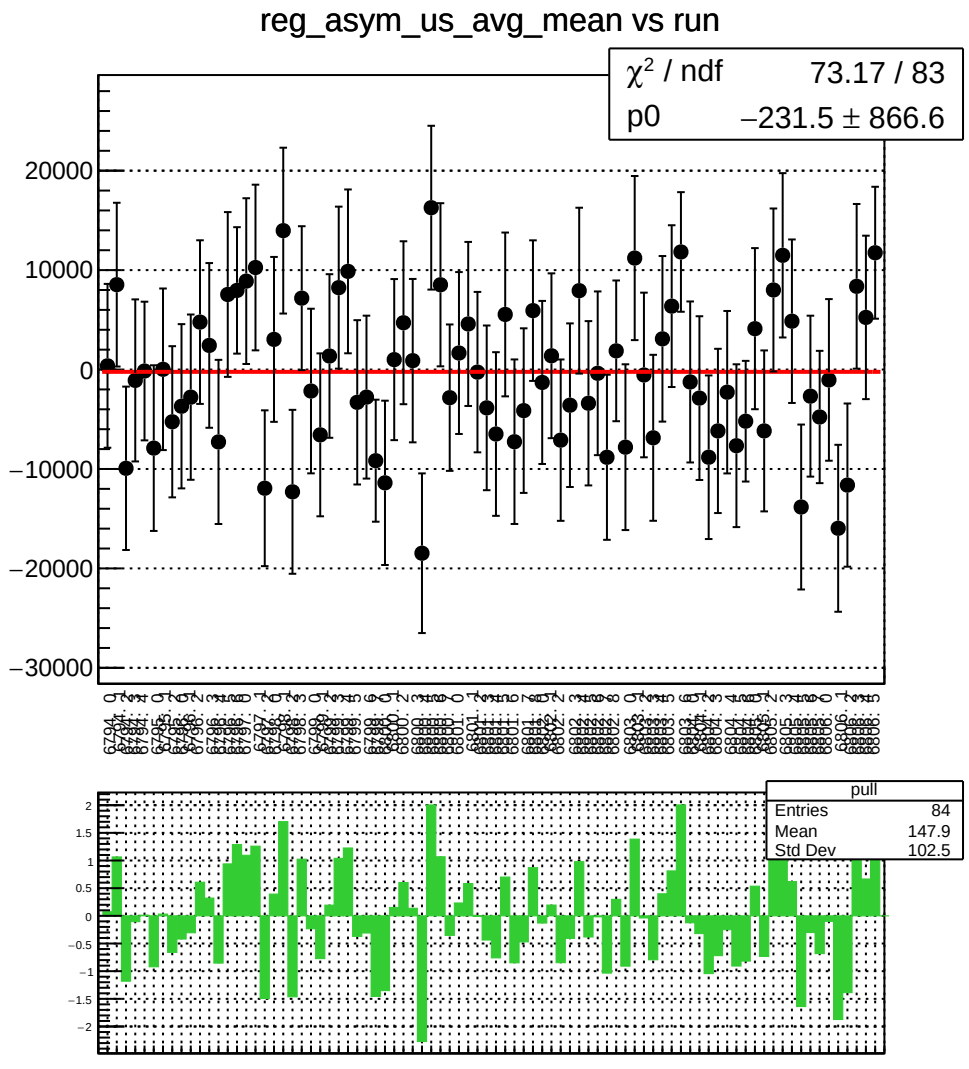
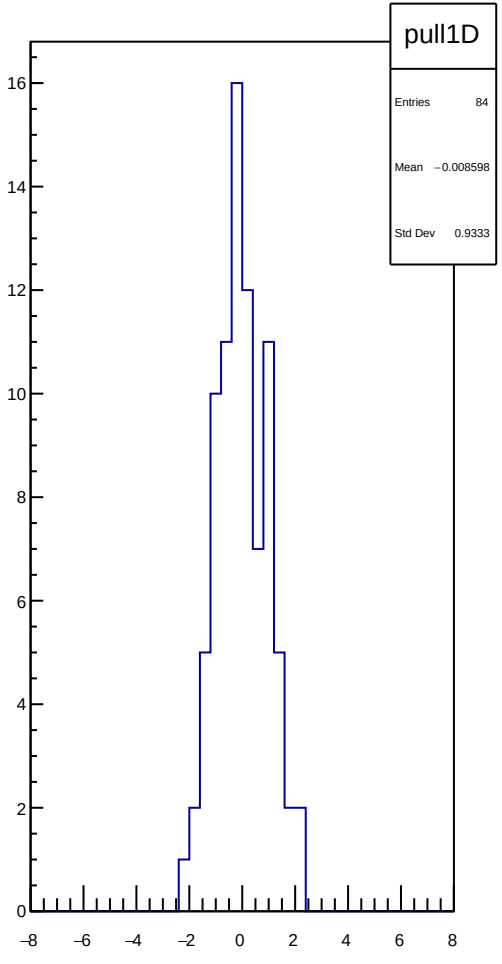
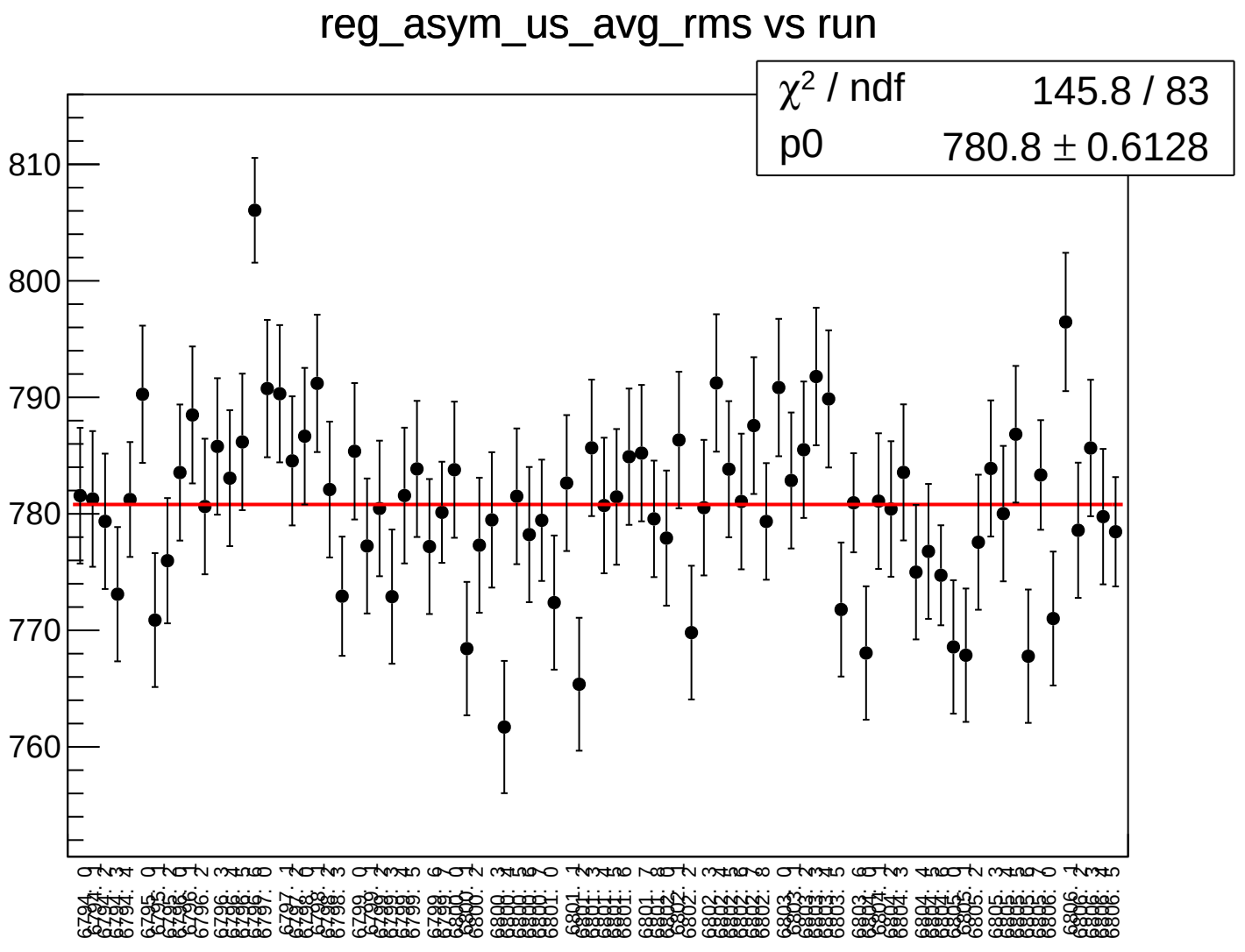
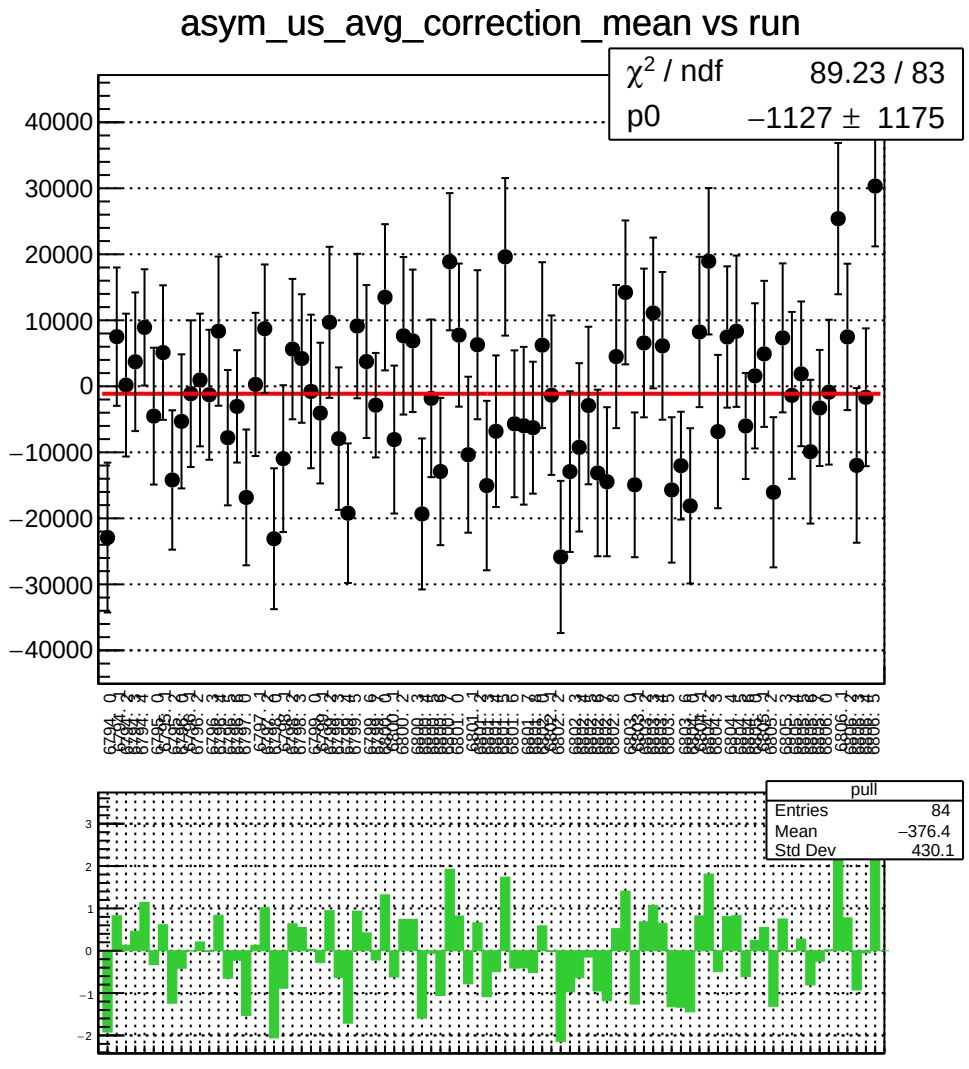
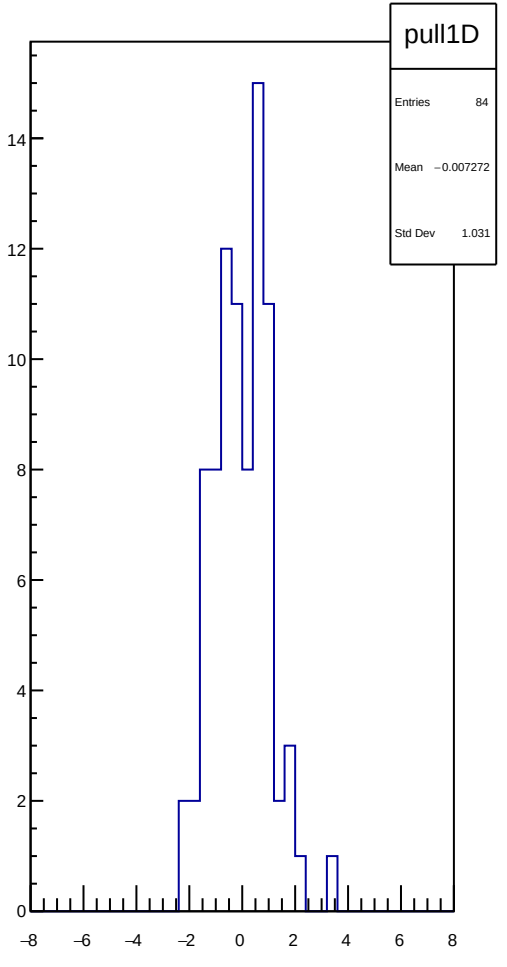
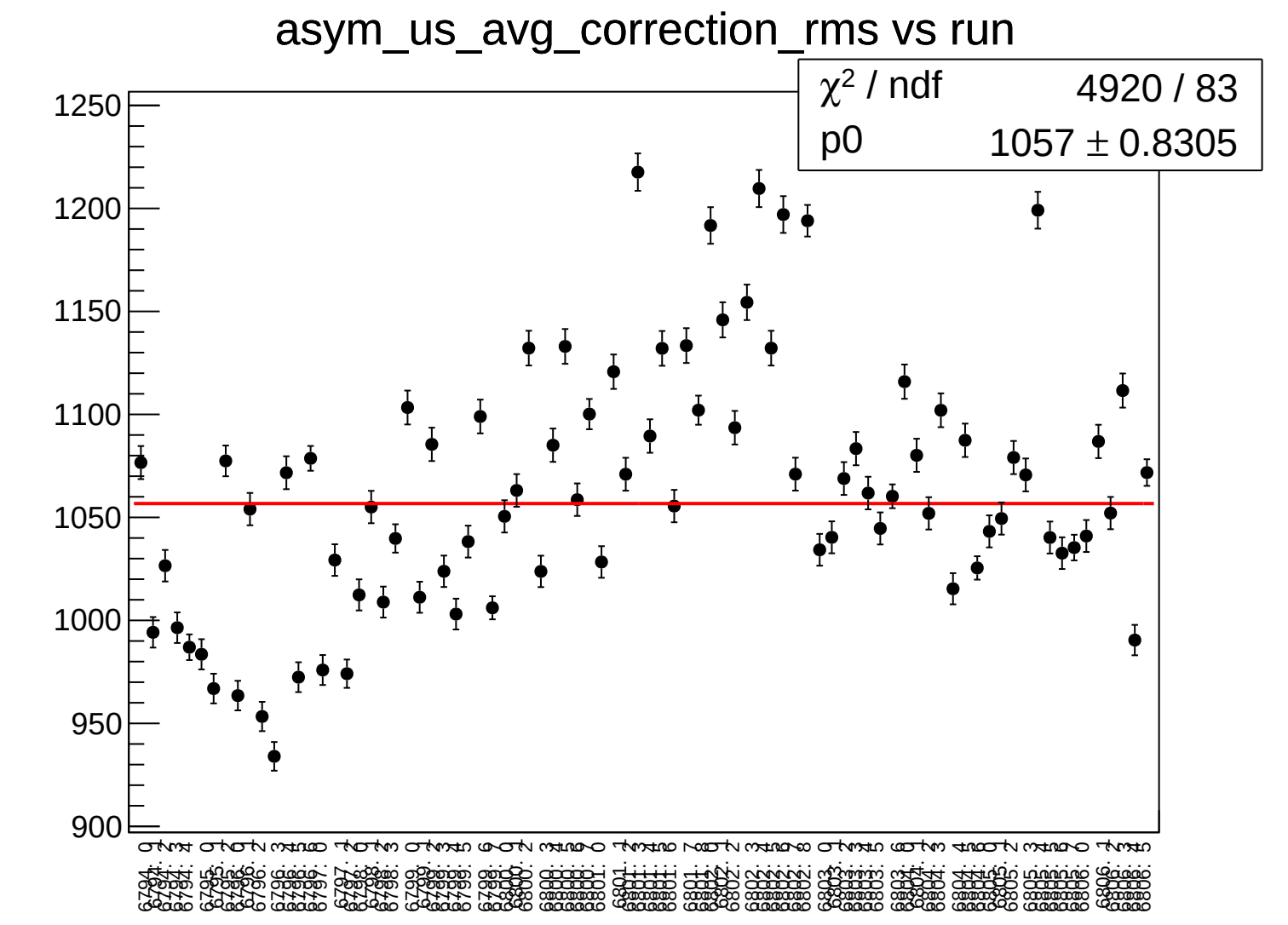

reg_asym_us_avg_mean vs run
χ² / ndf 73.17 / 83
p0 −231.5 ± 866.6
pull
Entries 84
Mean 147.9
Std Dev 102.5

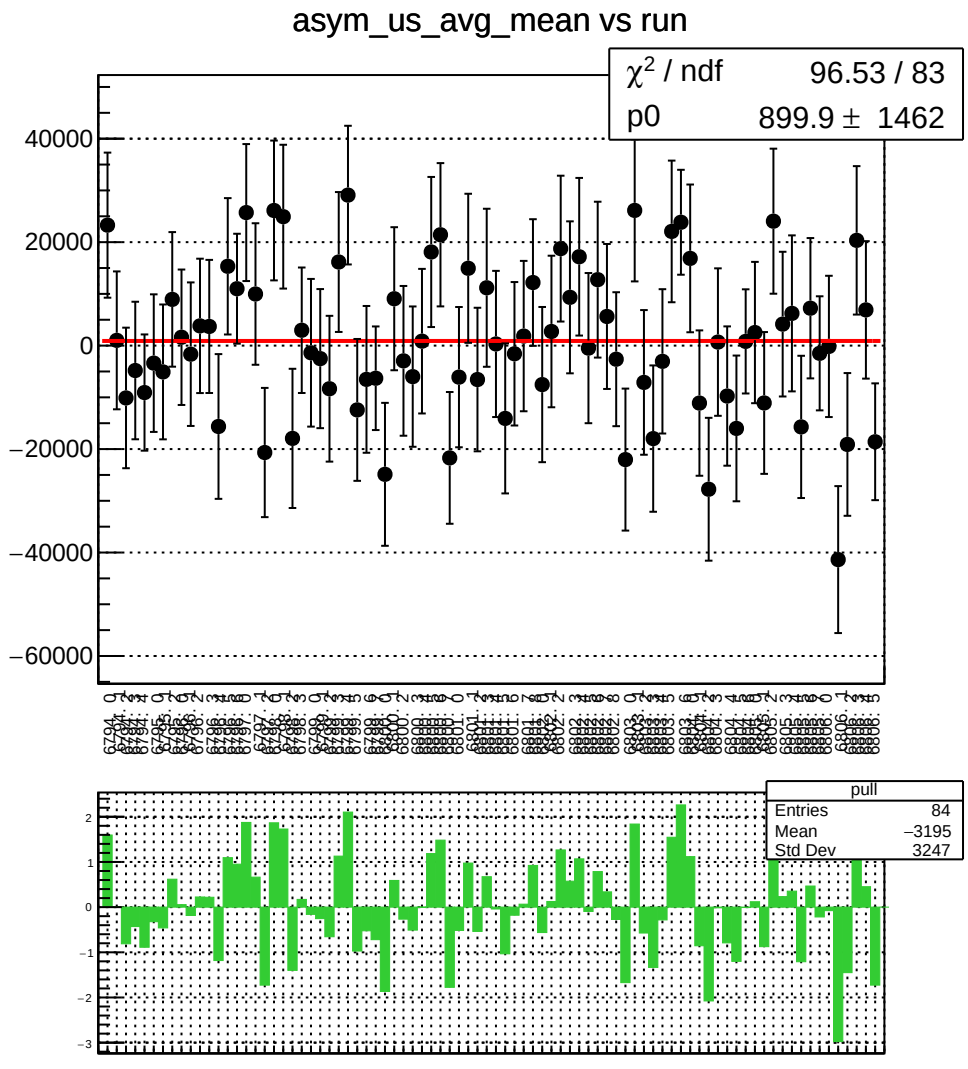

pull1D
Entries 84
Mean −0.008598
Std Dev 0.9333

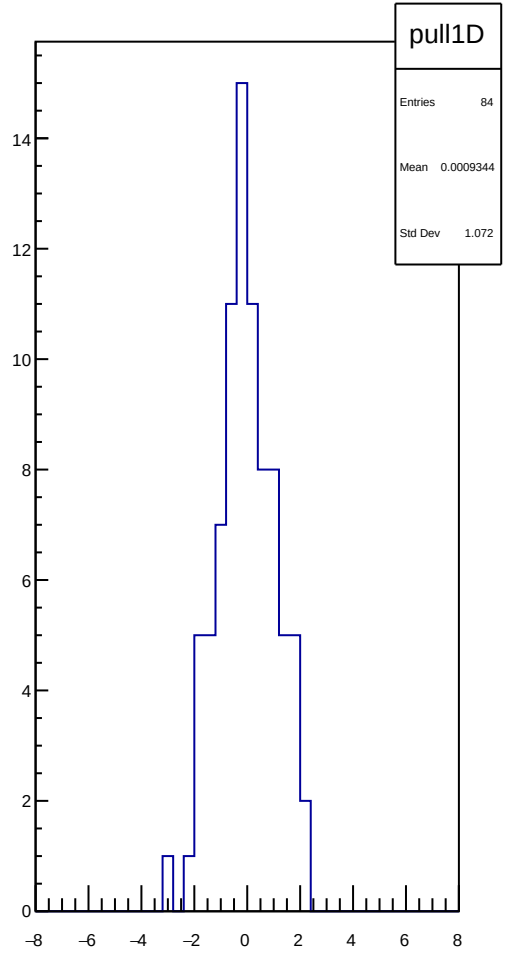

reg_asym_us_avg_rms vs run
χ^2 / ndf 145.8 / 83
p0 780.8 ± 0.6128
810
800
790
780
770
760

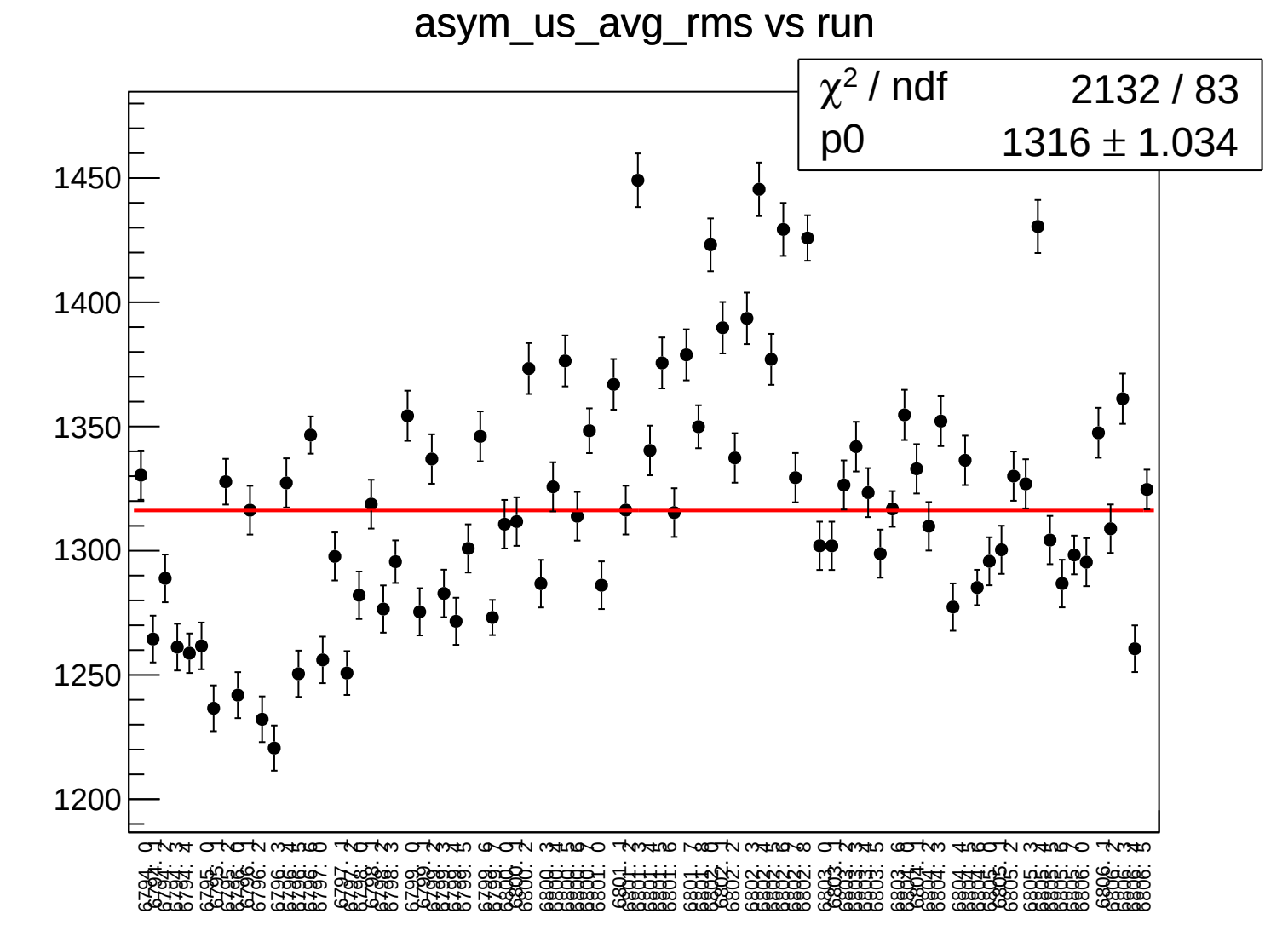

asym_us_avg_correction_mean vs run
χ² / ndf 89.23 / 83
p0 −1127 ± 1175
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −376.4
Std Dev 430.1
3
2
1
0
−1
−2

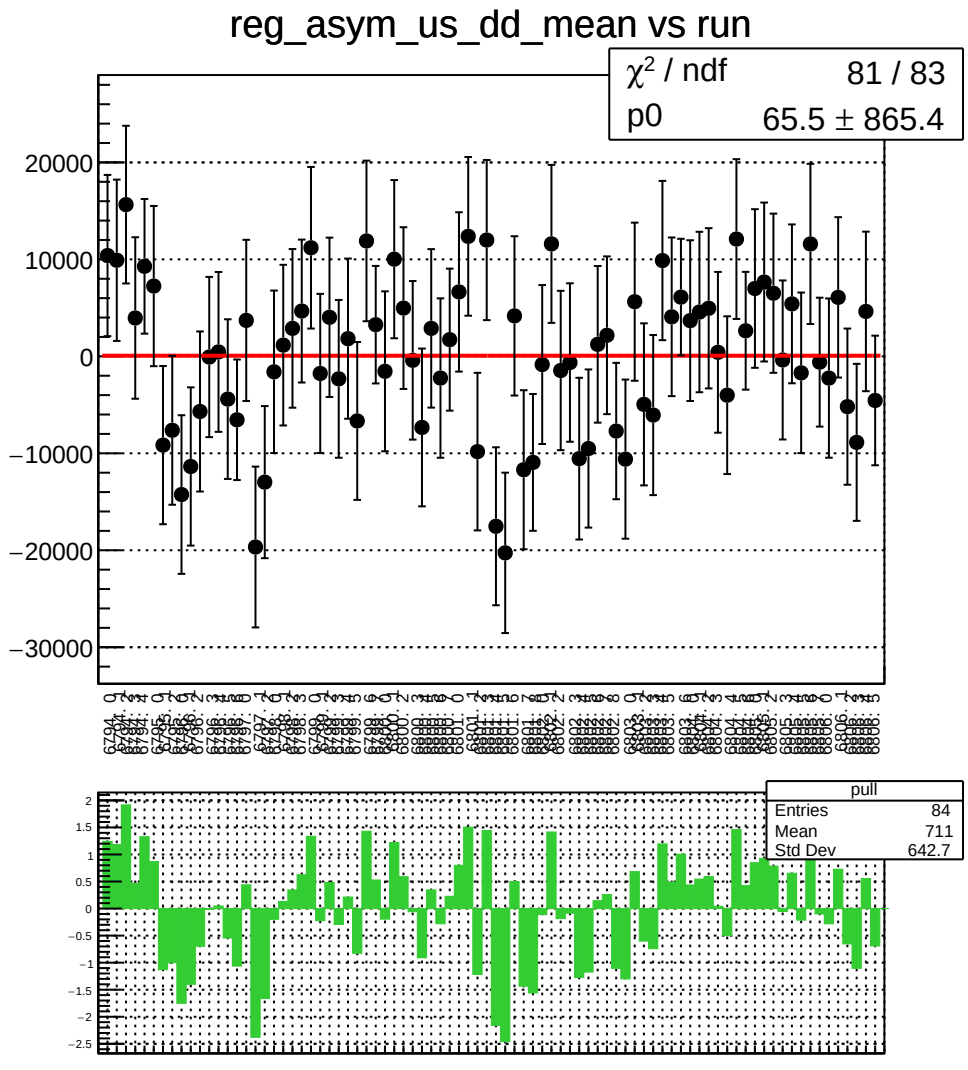

pull1D
Entries 84
Mean −0.007272
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

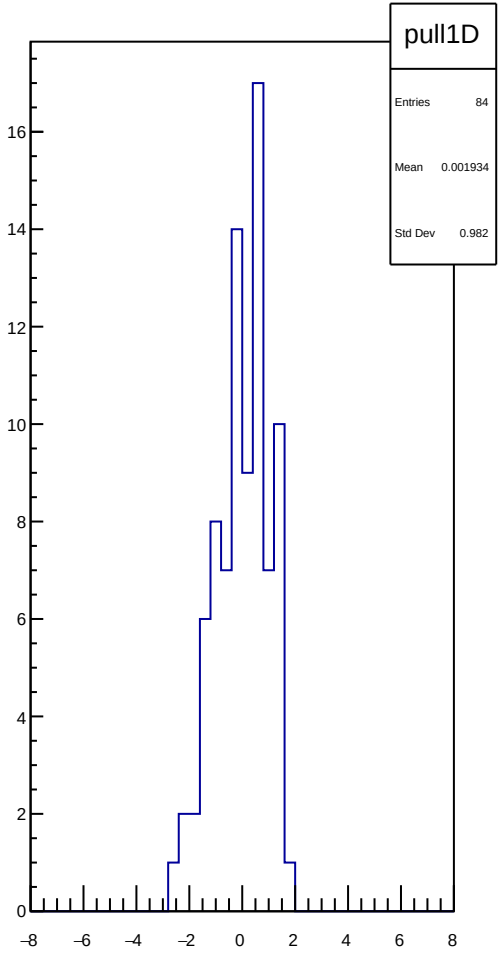

asym_us_avg_correction_rms vs run
χ² / ndf 4920 / 83
p0 1057 ± 0.8305
1250
1200
1150
1100
1050
1000
950
900

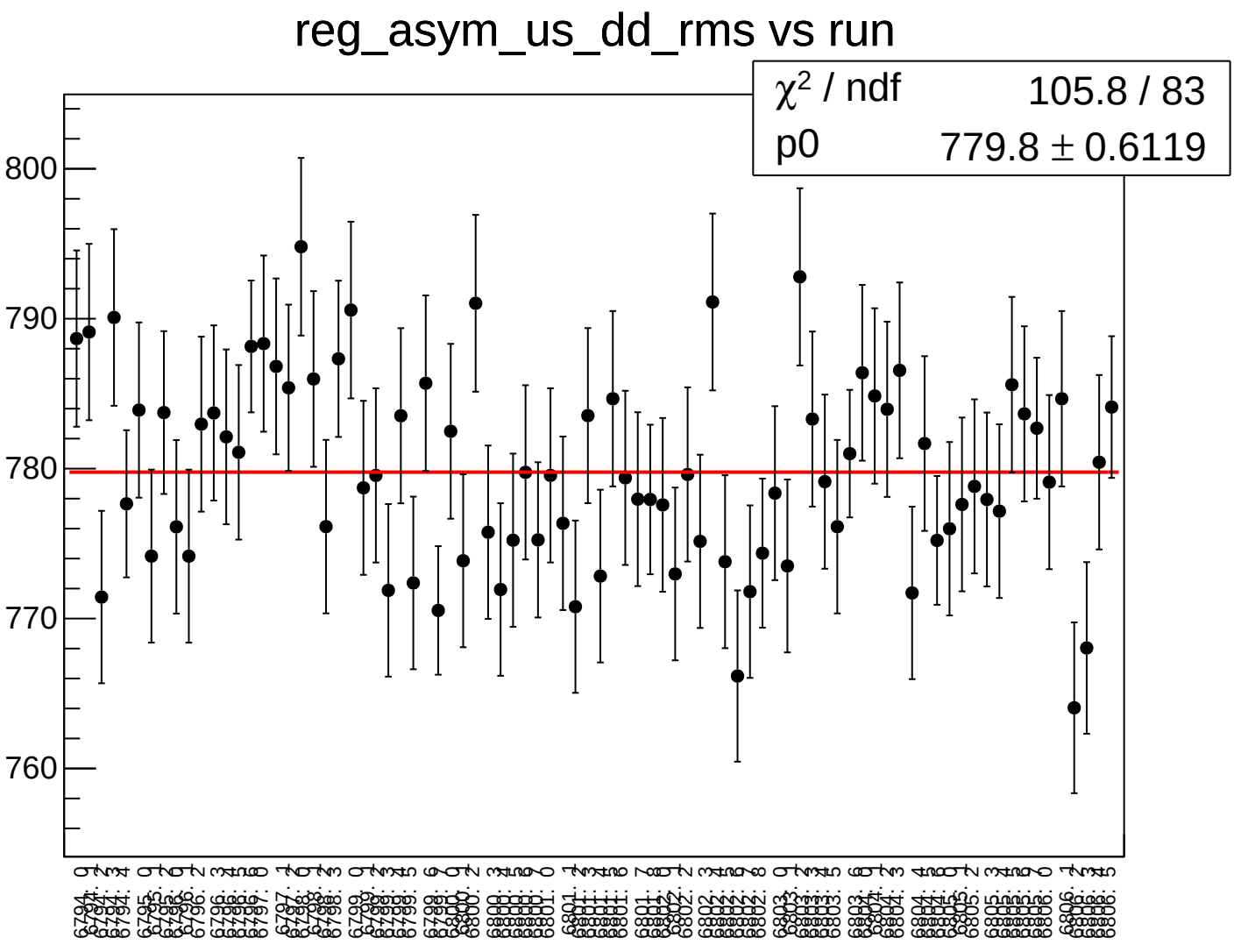

asym_us_avg_mean vs run
χ² / ndf 96.53 / 83
p0 899.9 ± 1462
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −3195
Std Dev 3247
2
1
0
−1
−2
−3

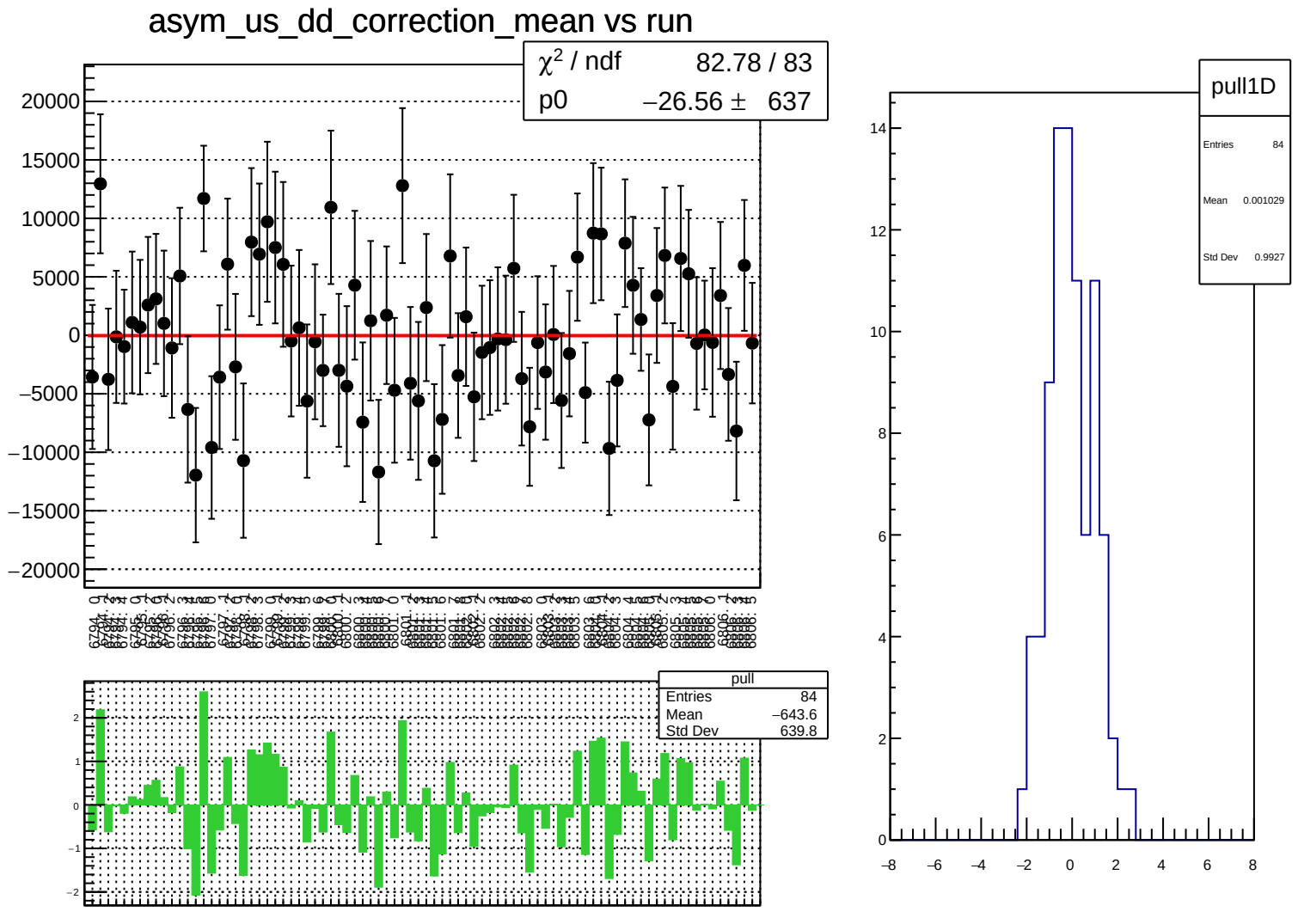

pull1D
Entries 84
Mean 0.0009344
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

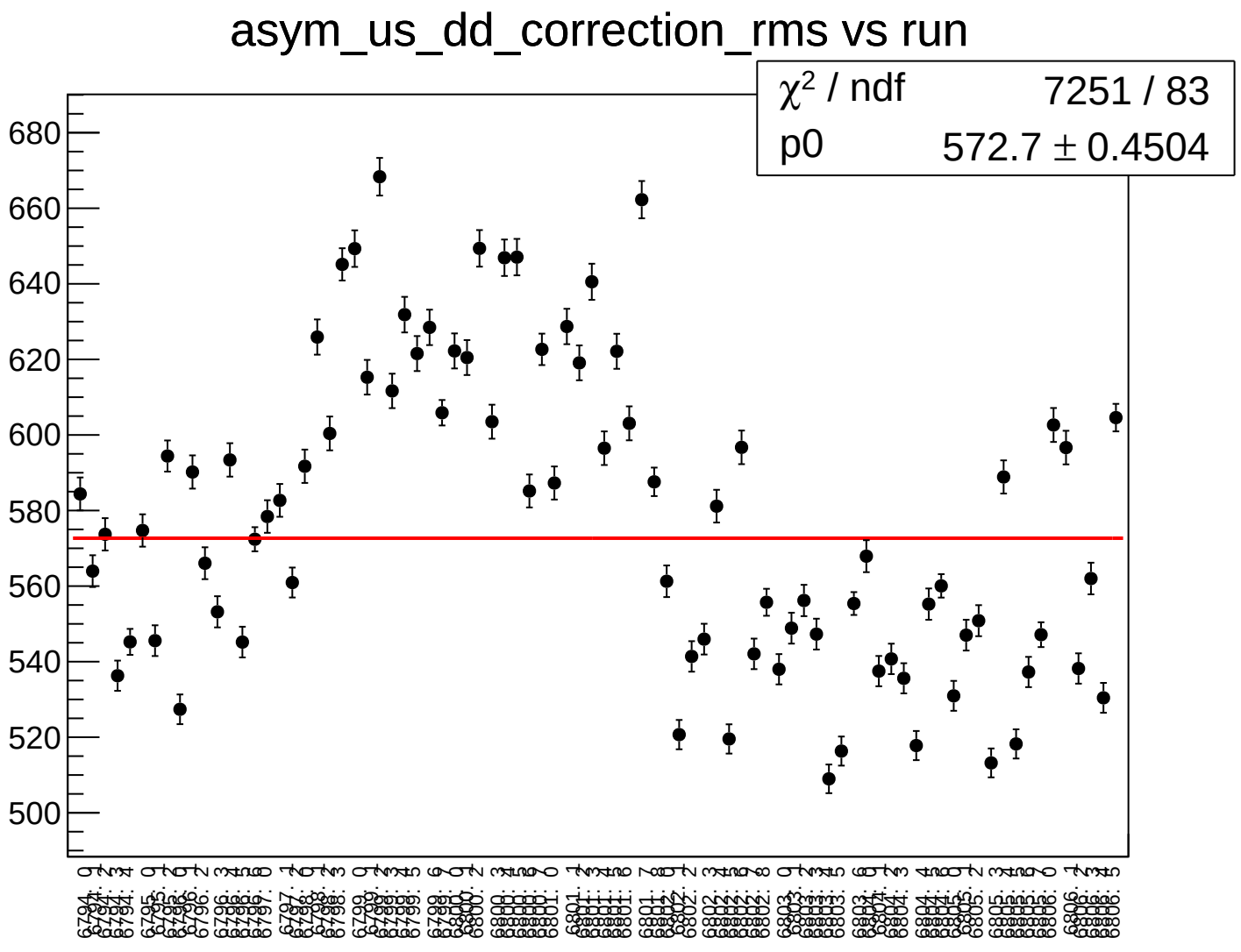

asym_us_avg_rms vs run
χ^2 / ndf 2132 / 83
p0 1316 ± 1.034
1450
1400
1350
1300
1250
1200

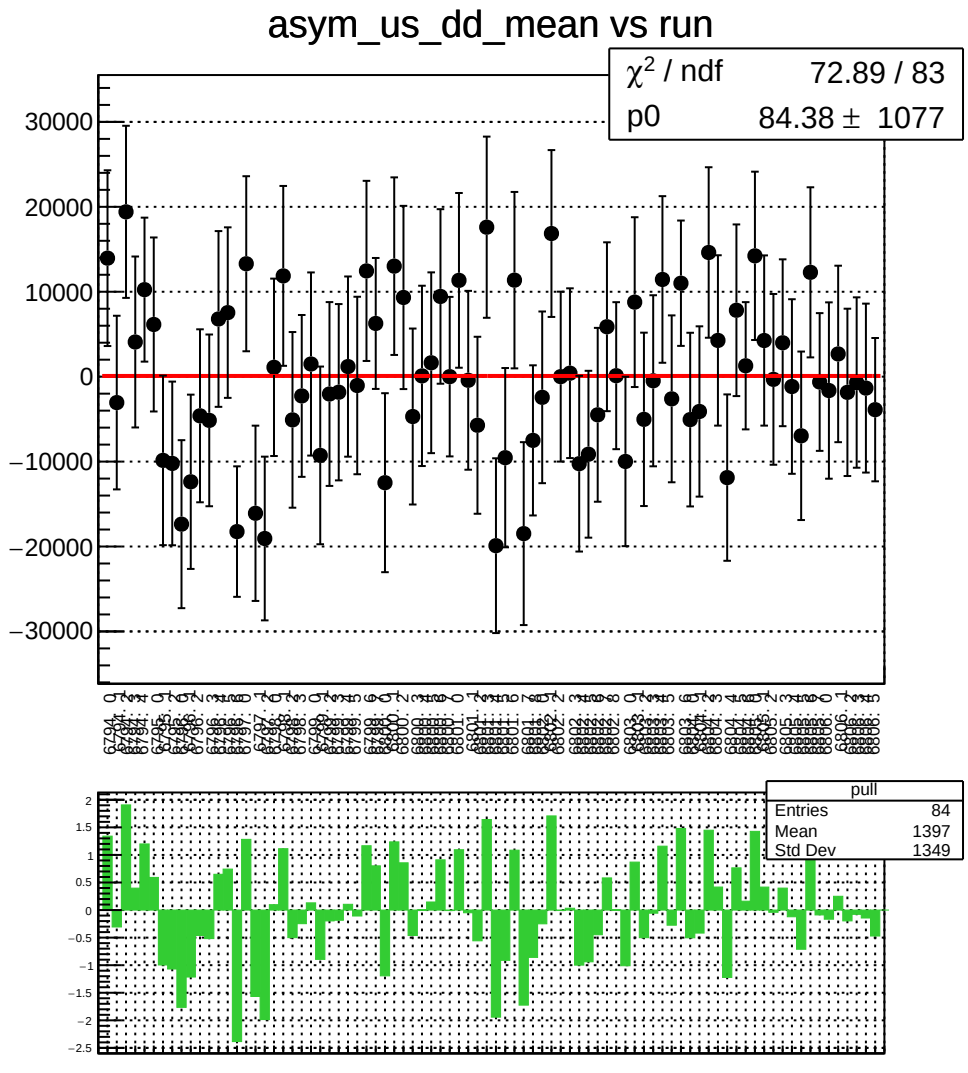

reg_asym_us_dd_mean vs run
χ² / ndf 81 / 83
p0 65.5 ± 865.4
pull
Entries 84
Mean 711
Std Dev 642.7

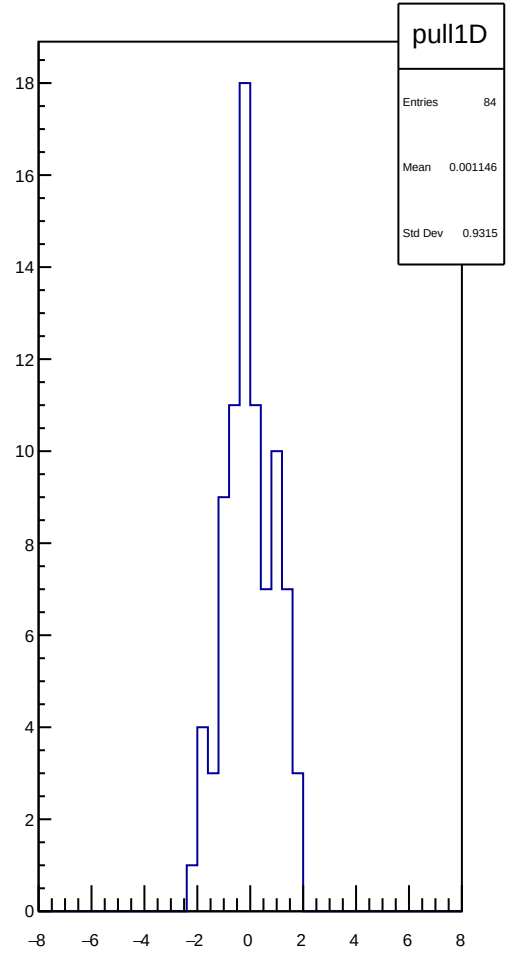

pull1D
Entries 84
Mean 0.001934
Std Dev 0.982

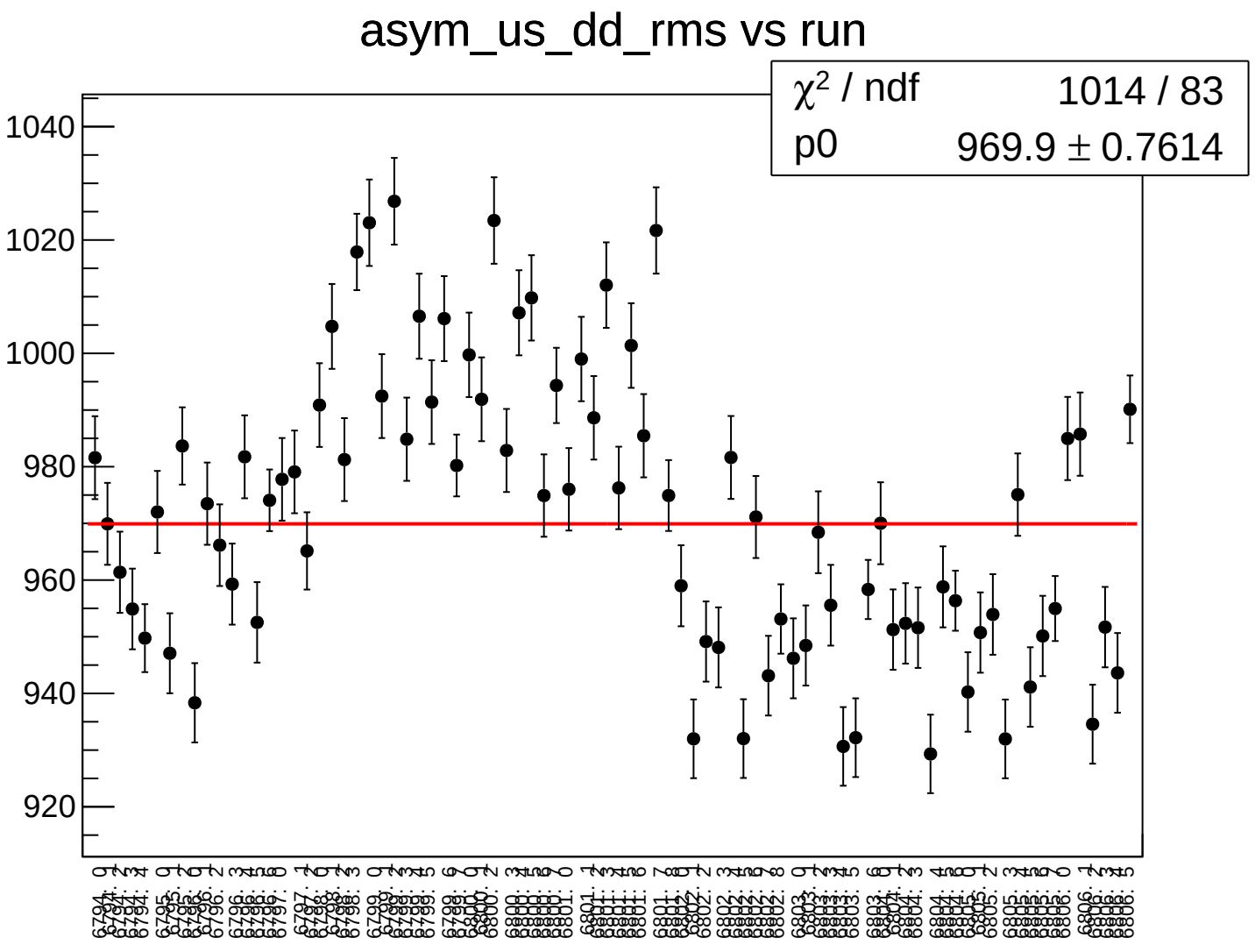

reg_asym_us_dd_rms vs run
χ² / ndf 105.8 / 83
p0 779.8 ± 0.6119
800
790
780
770
760

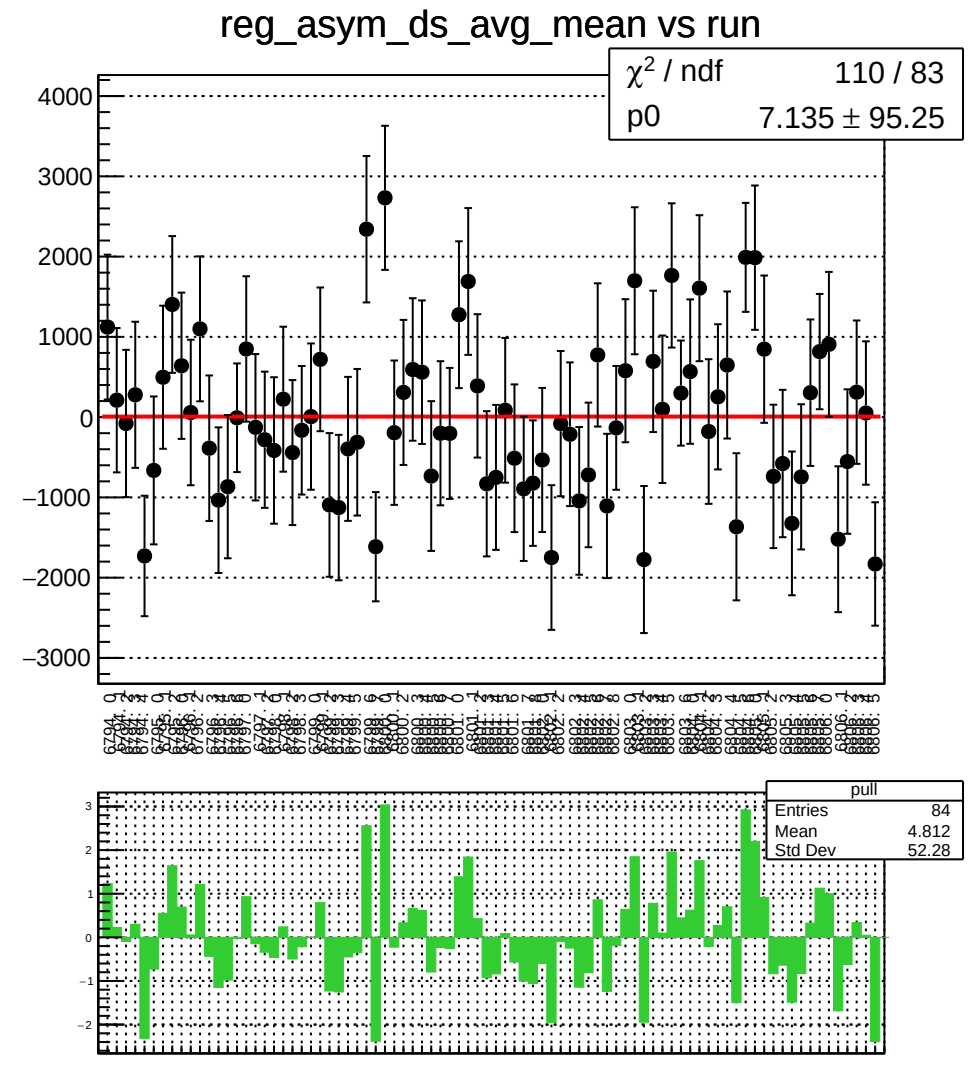

asym_us_dd_correction_mean vs run
χ² / ndf 82.78 / 83
p0 −26.56 ± 637
pull
Entries 84
Mean −643.6
Std Dev 639.8
pull1D
Entries 84
Mean 0.001029
Std Dev 0.9927

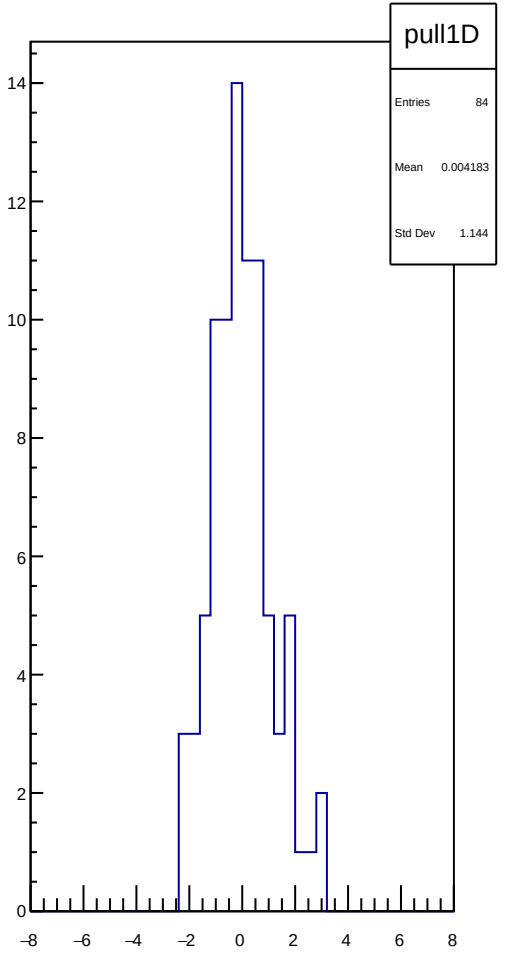

asym_us_dd_correction_rms vs run
χ² / ndf 7251 / 83
p0 572.7 ± 0.4504
680
660
640
620
600
580
560
540
520
500

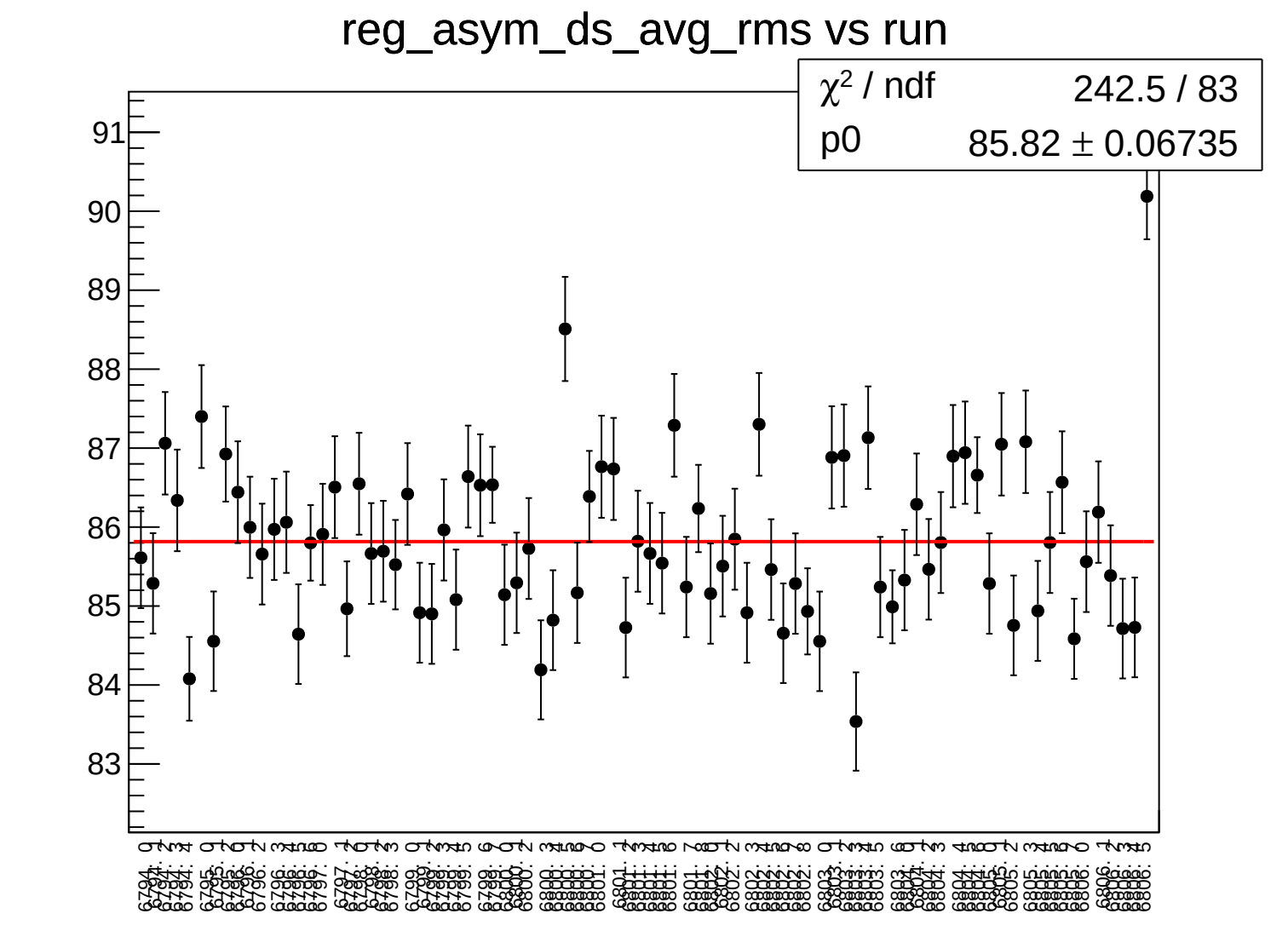

asym_us_dd_mean vs run
χ² / ndf 72.89 / 83
p0 84.38 ± 1077
pull
Entries 84
Mean 1397
Std Dev 1349

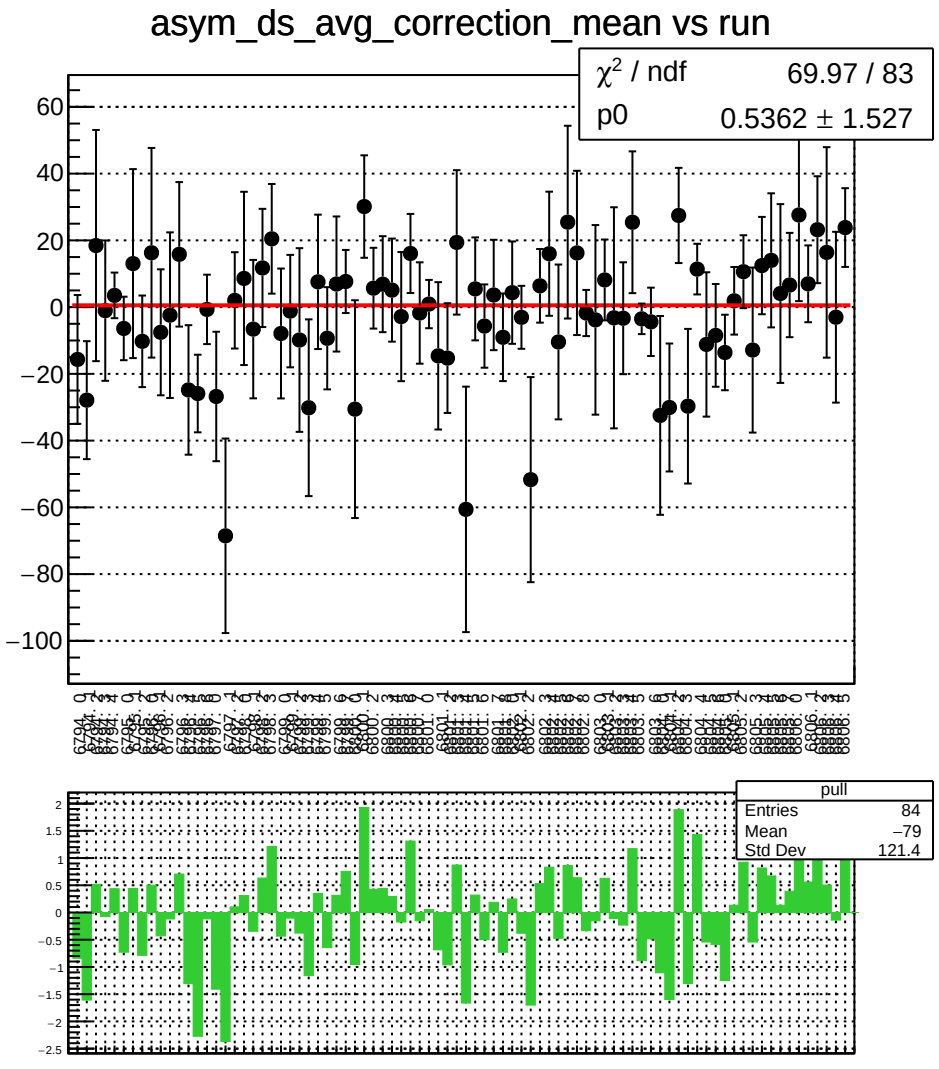

pull1D
Entries 84
Mean 0.001146
Std Dev 0.9315

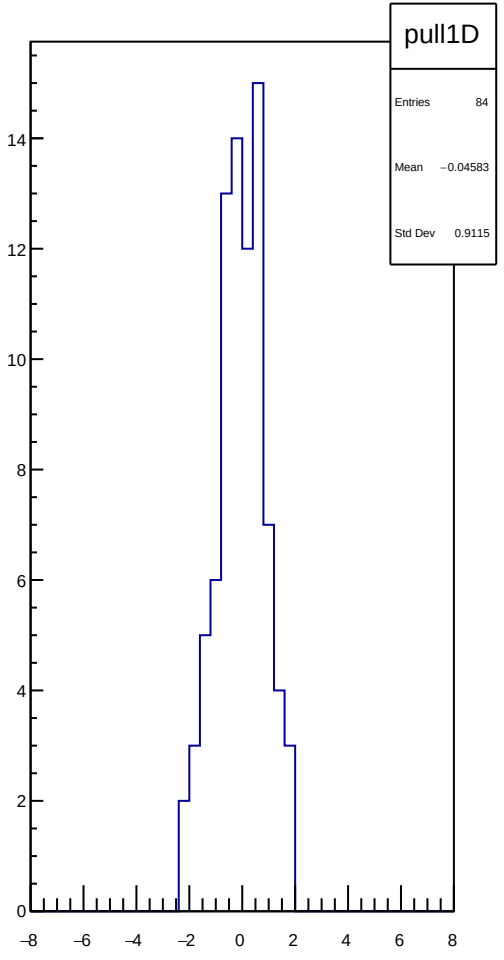

asym_us_dd_rms vs run
χ² / ndf 1014 / 83
p0 969.9 ± 0.7614
1040
1020
1000
980
960
940
920

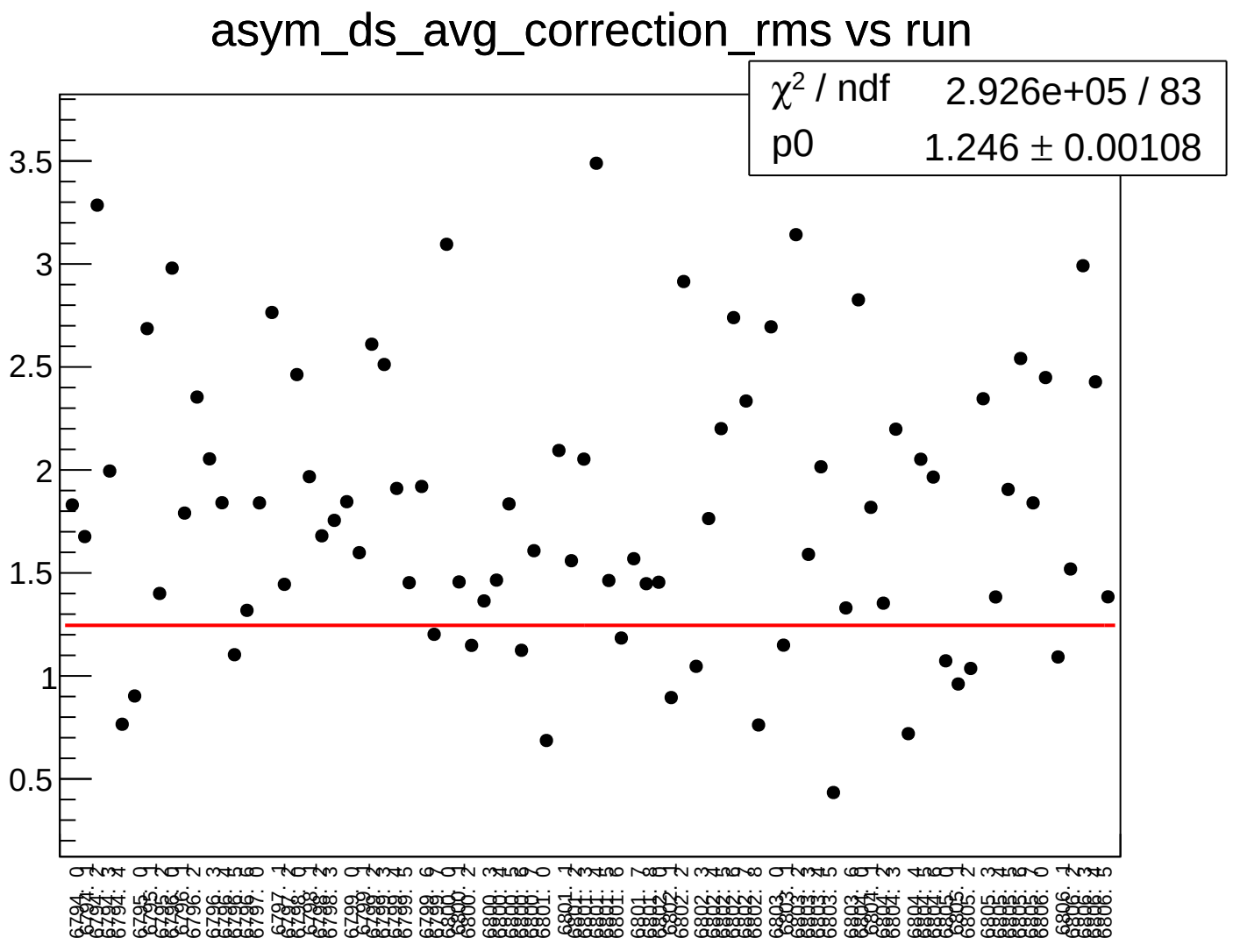

reg_asym_ds_avg_mean vs run
χ² / ndf 110 / 83
p0 7.135 ± 95.25
pull
Entries 84
Mean 4.812
Std Dev 52.28

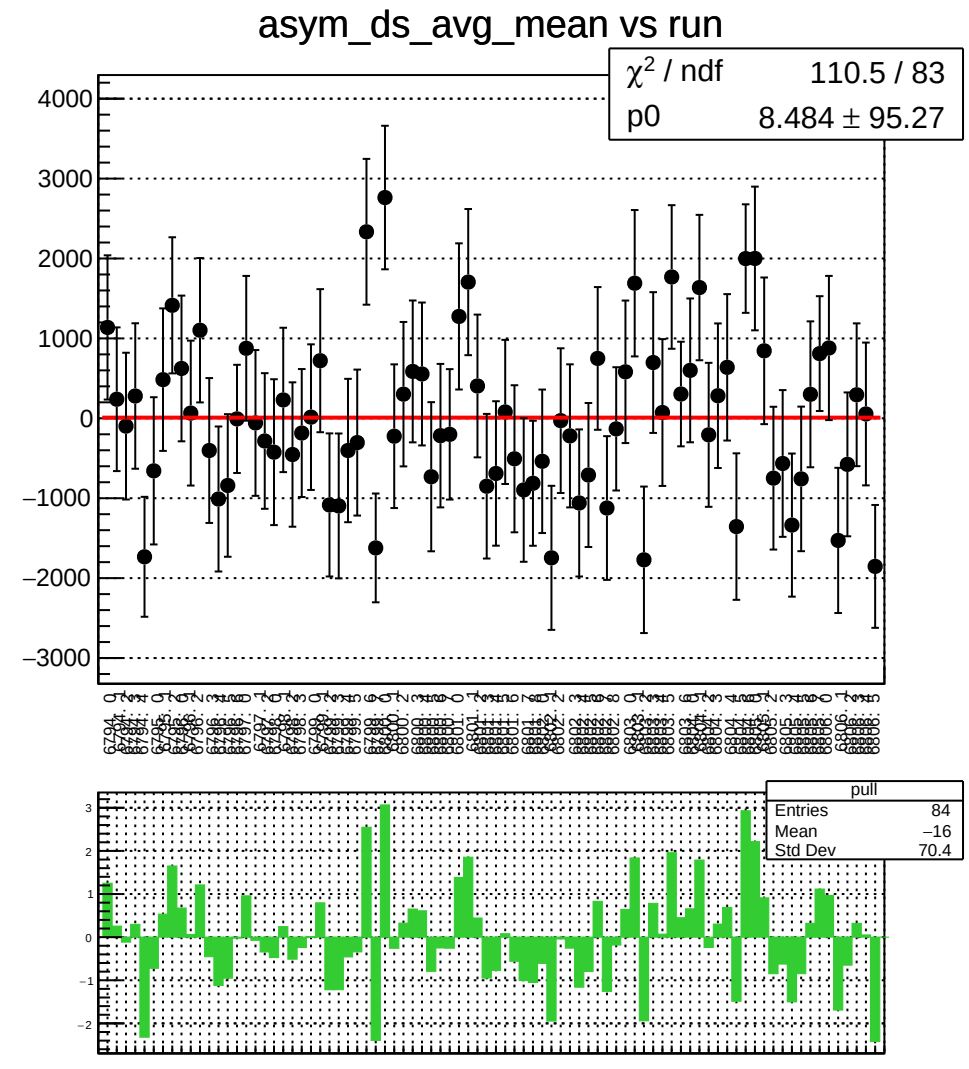

pull1D
Entries 84
Mean 0.004183
Std Dev 1.144

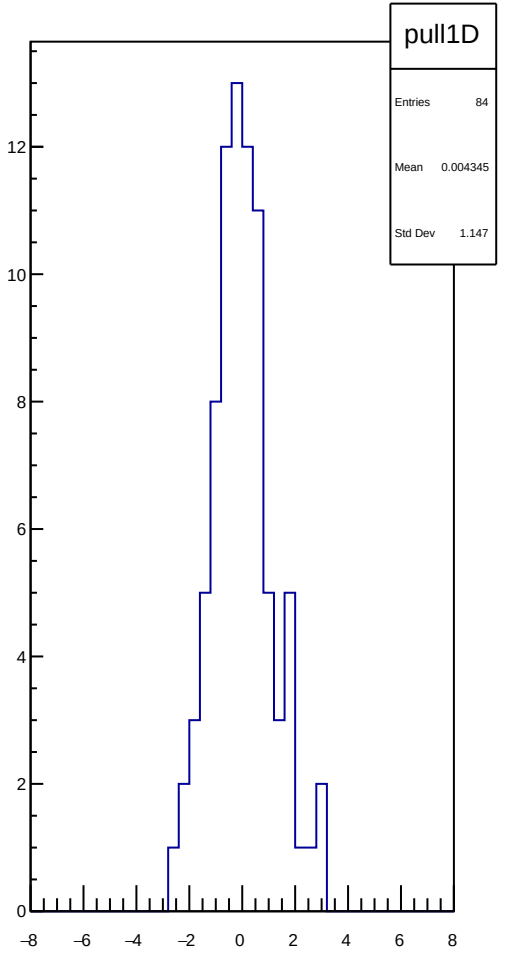

reg_asym_ds_avg_rms vs run
χ² / ndf 242.5 / 83
p0 85.82 ± 0.06735
91
90
89
88
87
86
85
84
83

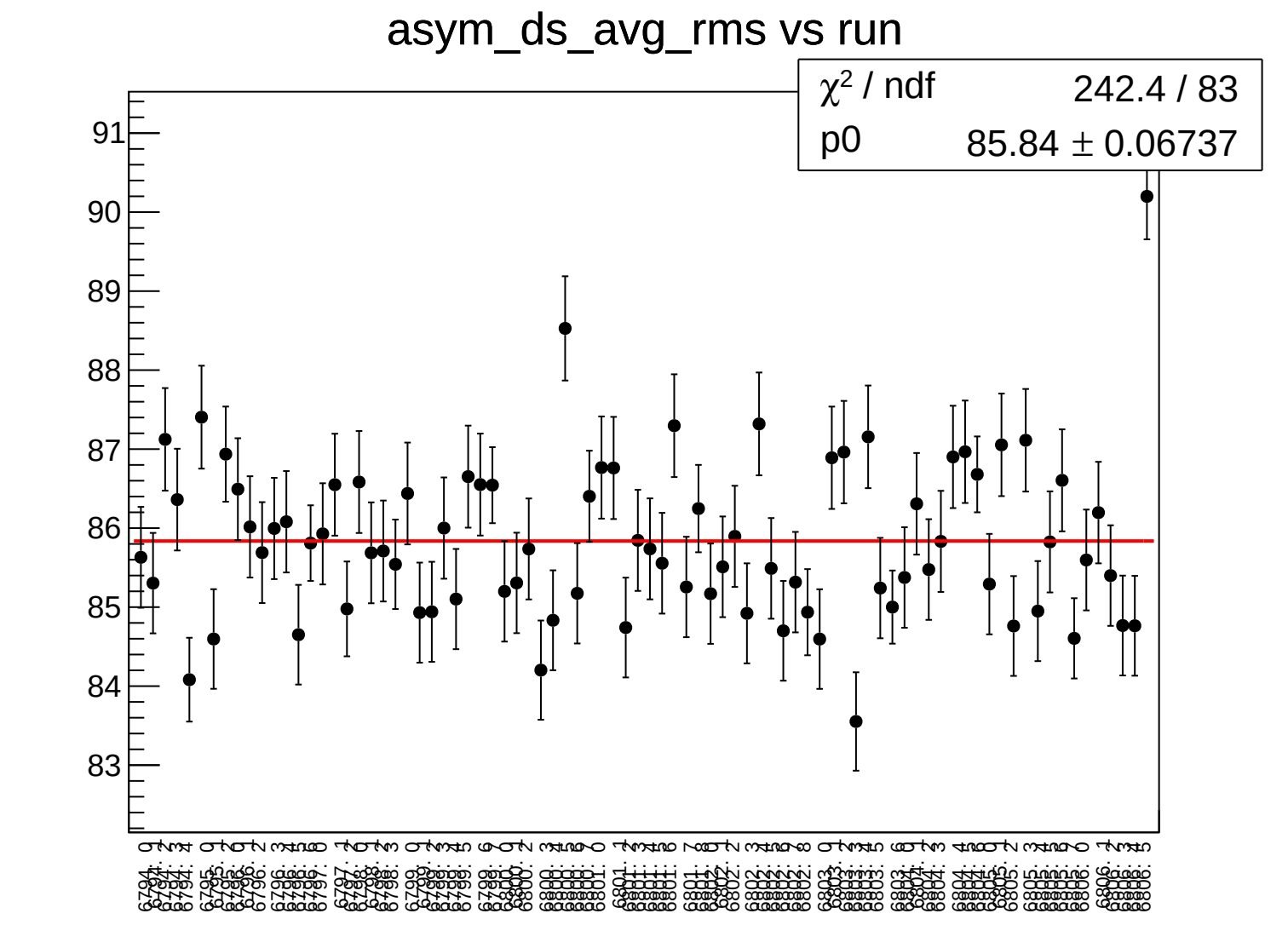

asym_ds_avg_correction_mean vs run
χ² / ndf 69.97 / 83
p0 0.5362 ± 1.527
pull
Entries 84
Mean −79
Std Dev 121.4

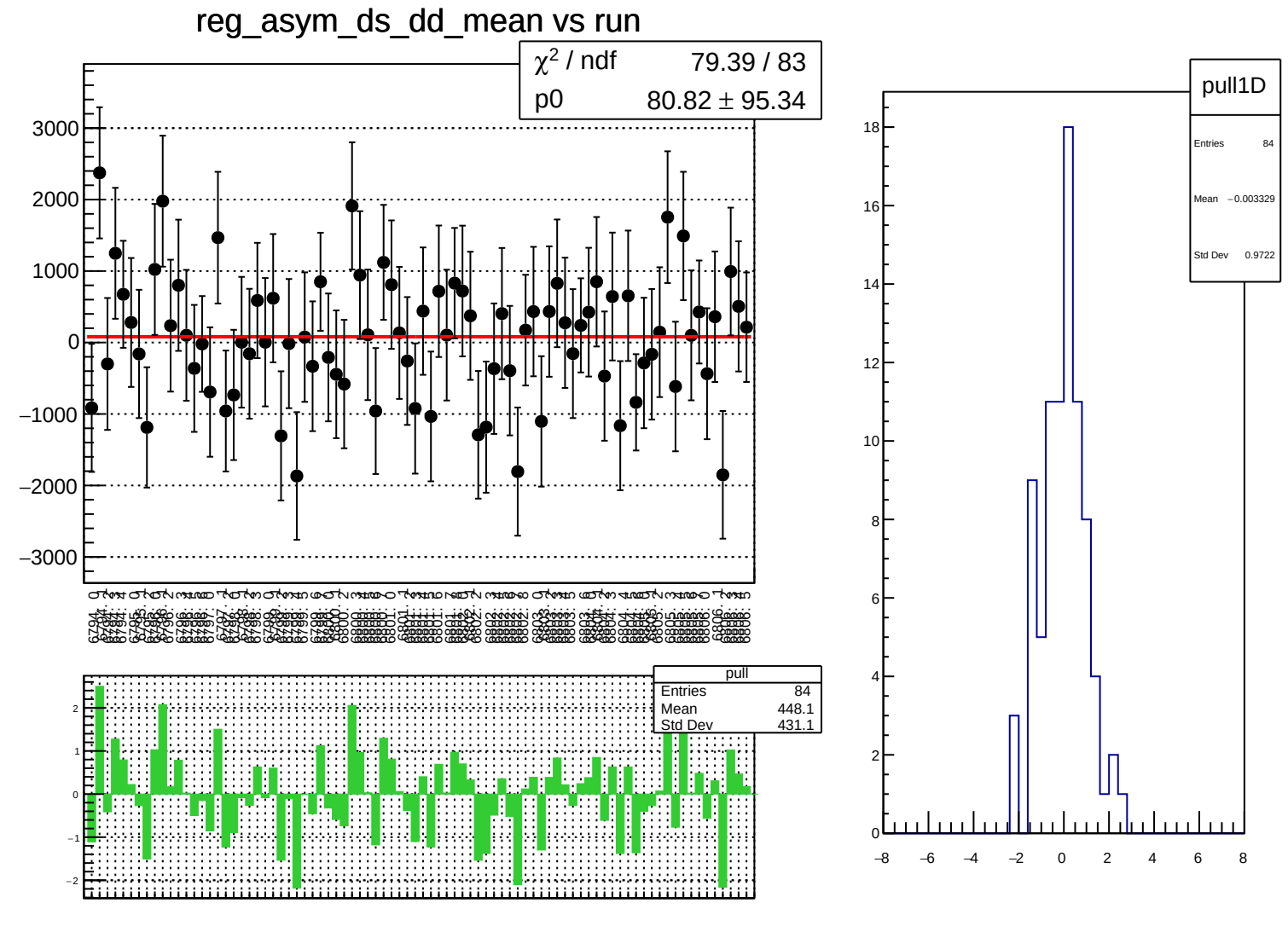

pull1D
Entries 84
Mean −0.04583
Std Dev 0.9115

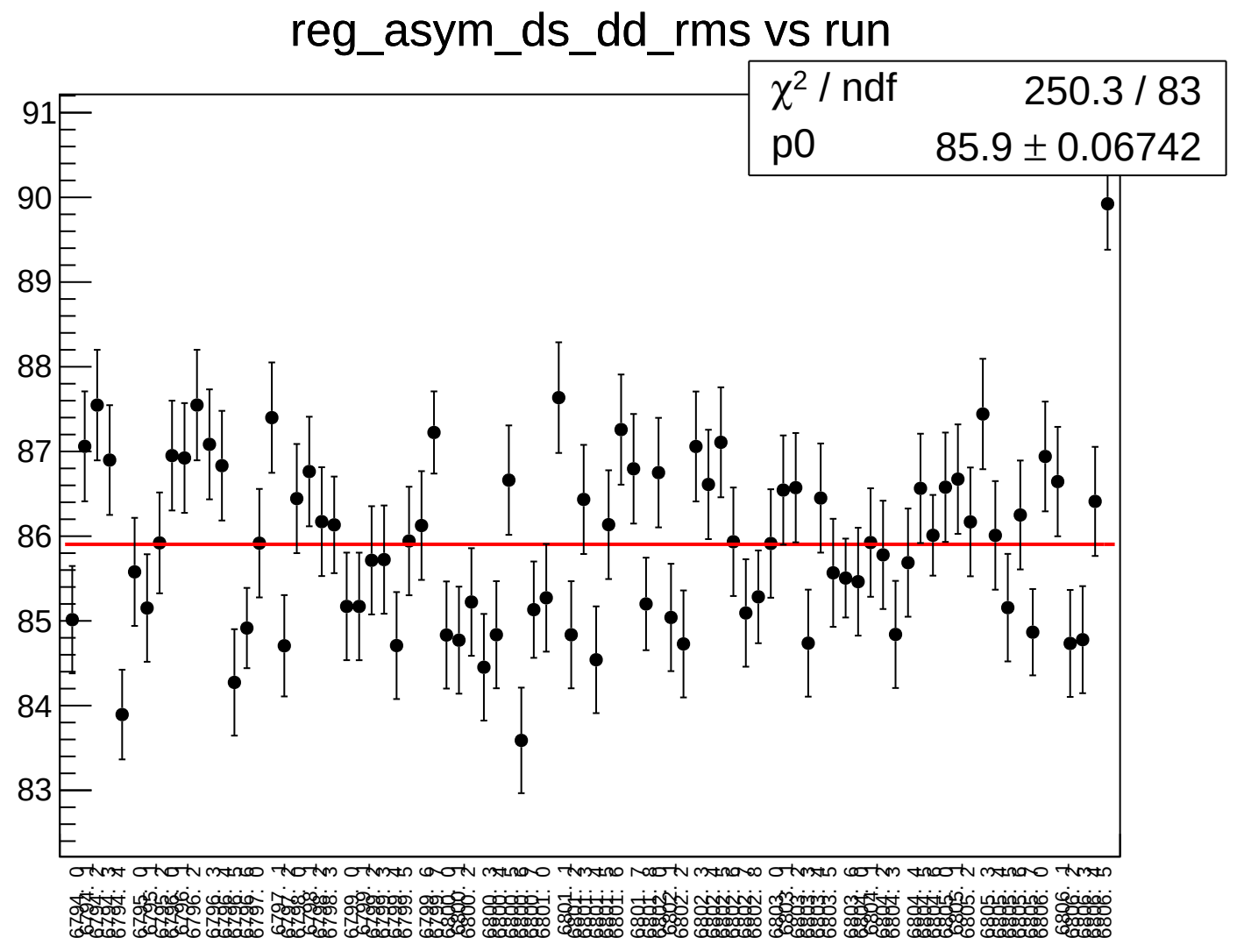

asym_ds_avg_correction_rms vs run
χ^2 / ndf 2.926e+05 / 83
p0 1.246 ± 0.00108
3.5
3
2.5
2
1.5
1
0.5

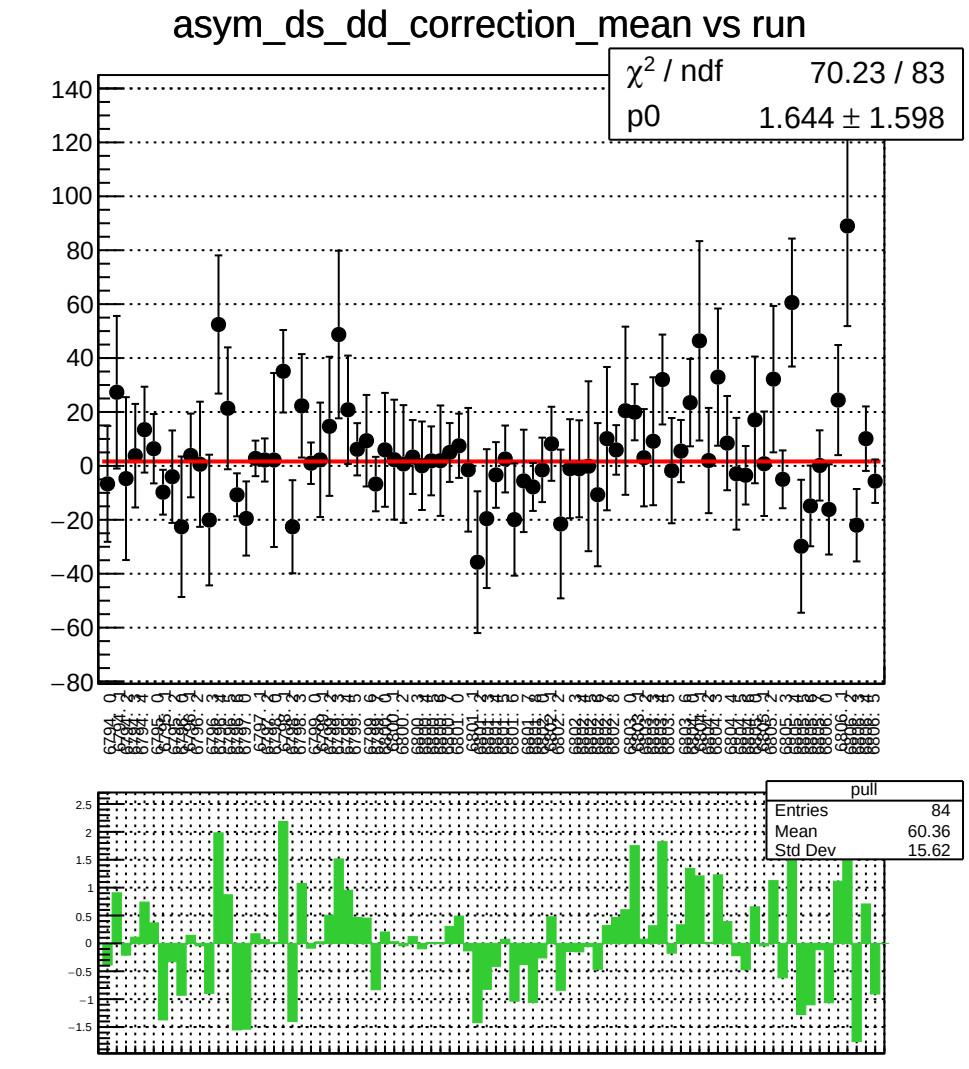

asym_ds_avg_mean vs run
χ² / ndf 110.5 / 83
p0 8.484 ± 95.27
pull
Entries 84
Mean −16
Std Dev 70.4

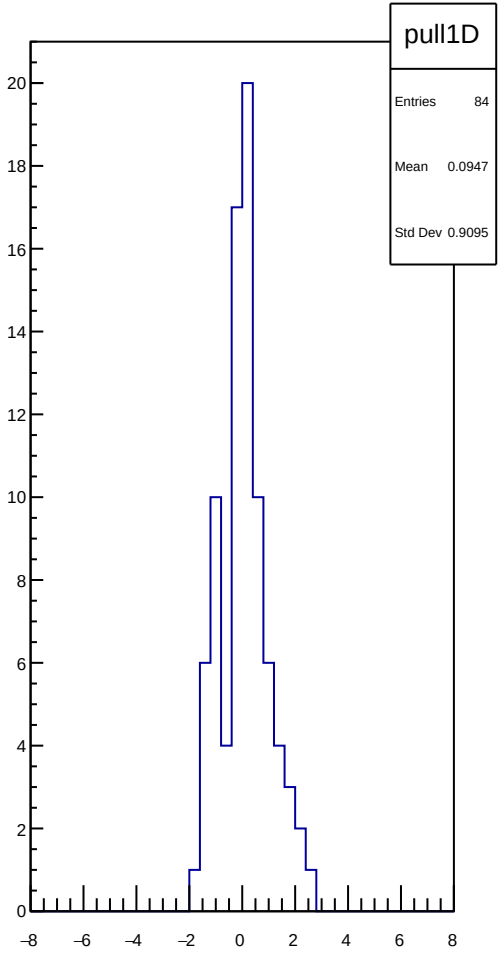

pull1D
Entries 84
Mean 0.004345
Std Dev 1.147

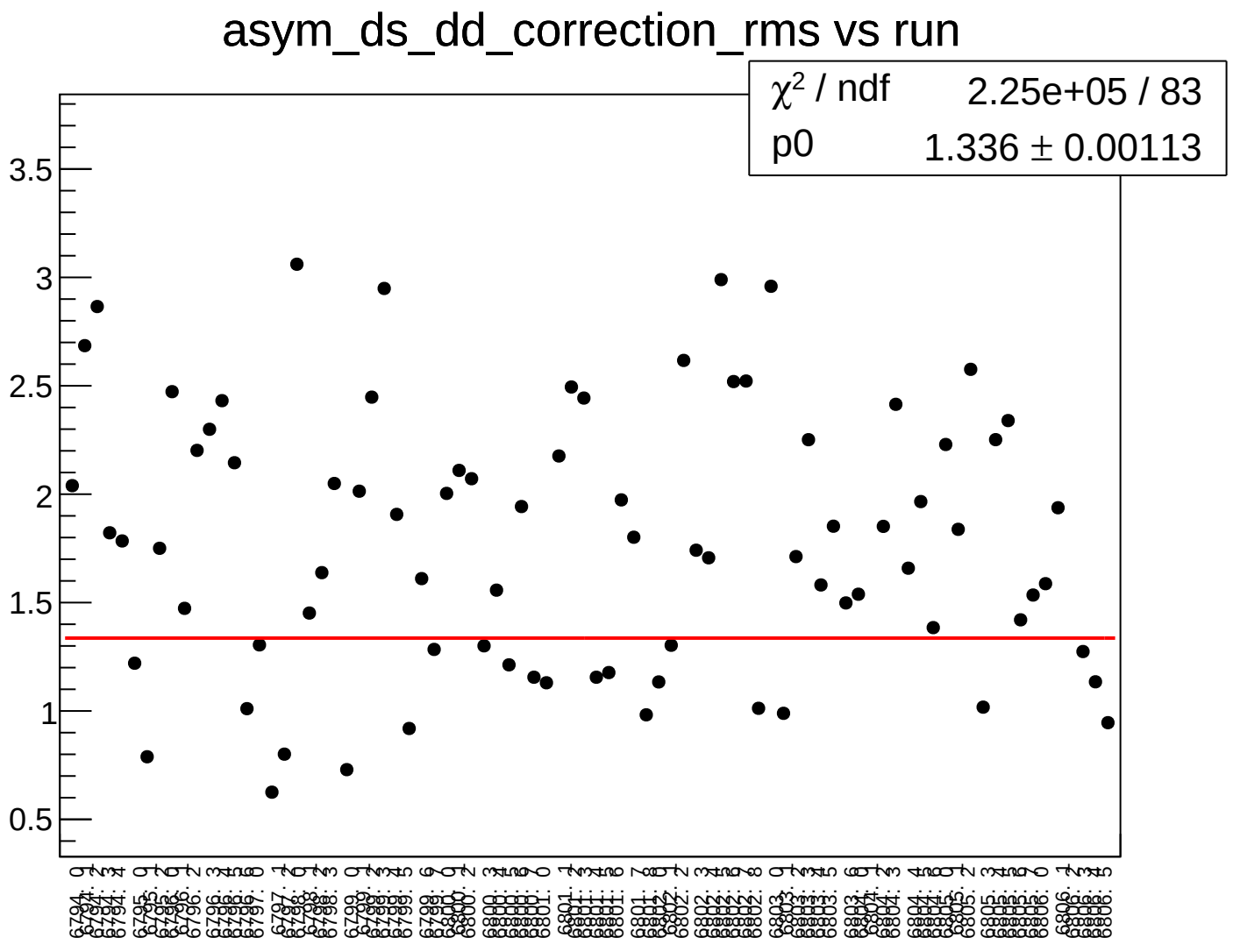

asym_ds_avg_rms vs run
χ^2 / ndf 242.4 / 83
p0 85.84 ± 0.06737
91
90
89
88
87
86
85
84
83

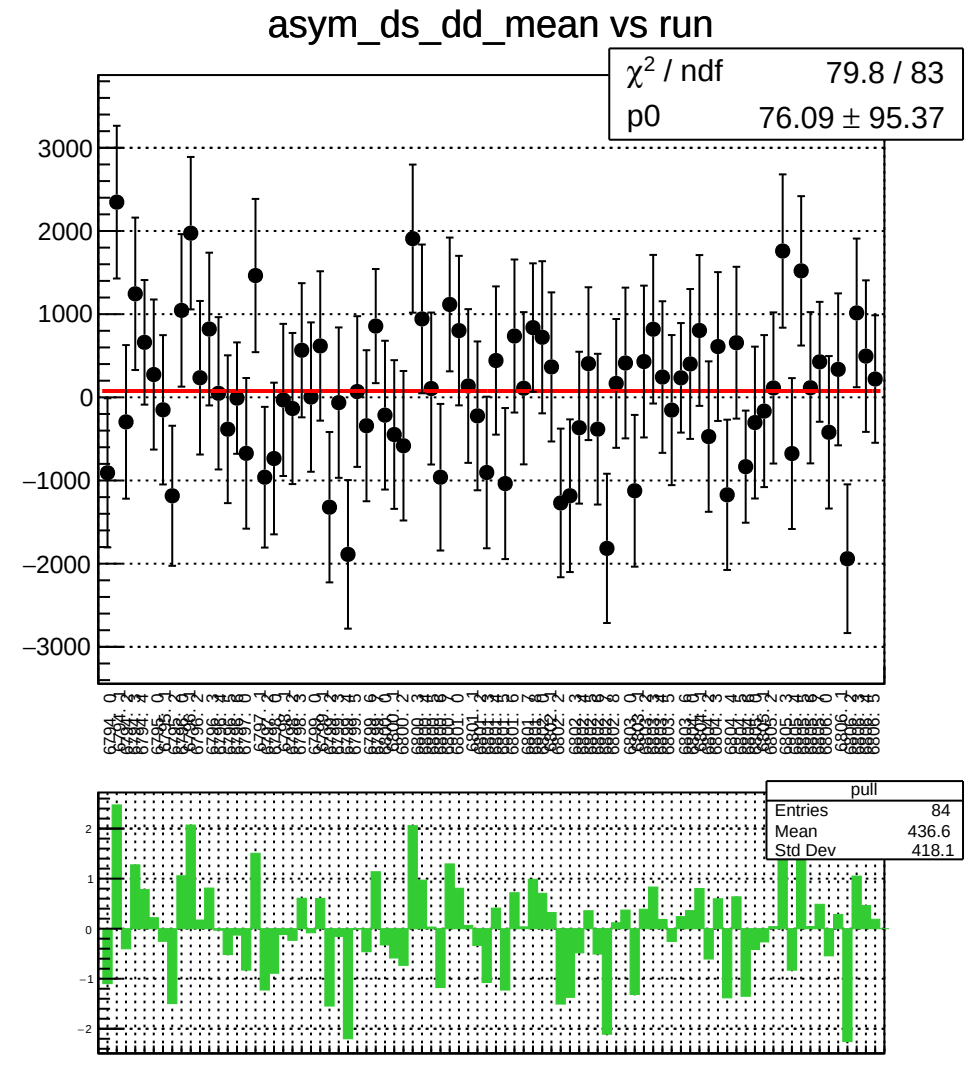

reg_asym_ds_dd_mean vs run
χ² / ndf 79.39 / 83
p0 80.82 ± 95.34
pull
Entries 84
Mean 448.1
Std Dev 431.1
pull1D
Entries 84
Mean −0.003329
Std Dev 0.9722

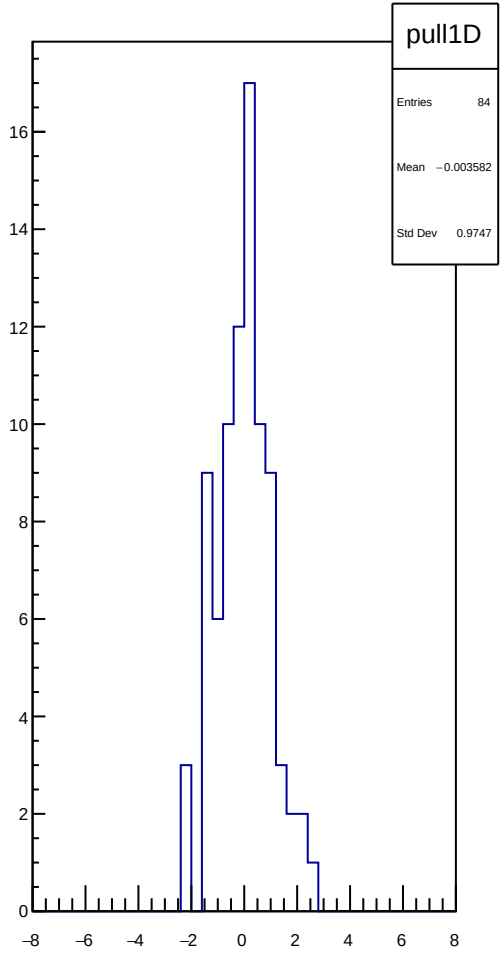

reg_asym_ds_dd_rms vs run
χ^2 / ndf 250.3 / 83
p0 85.9 ± 0.06742
91
90
89
88
87
86
85
84
83

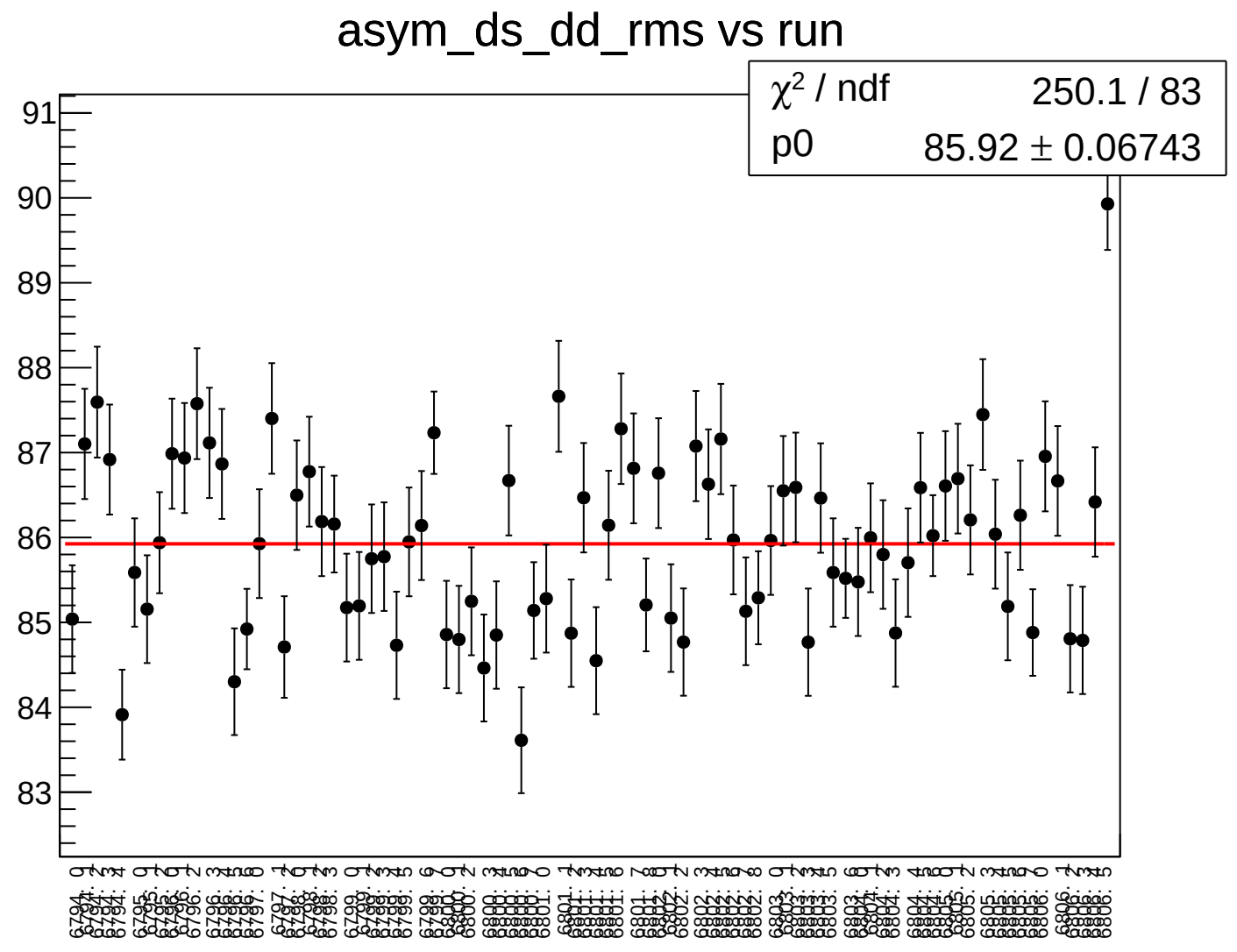

asym_ds_dd_correction_mean vs run
χ² / ndf 70.23 / 83
p0 1.644 ± 1.598
pull
Entries 84
Mean 60.36
Std Dev 15.62

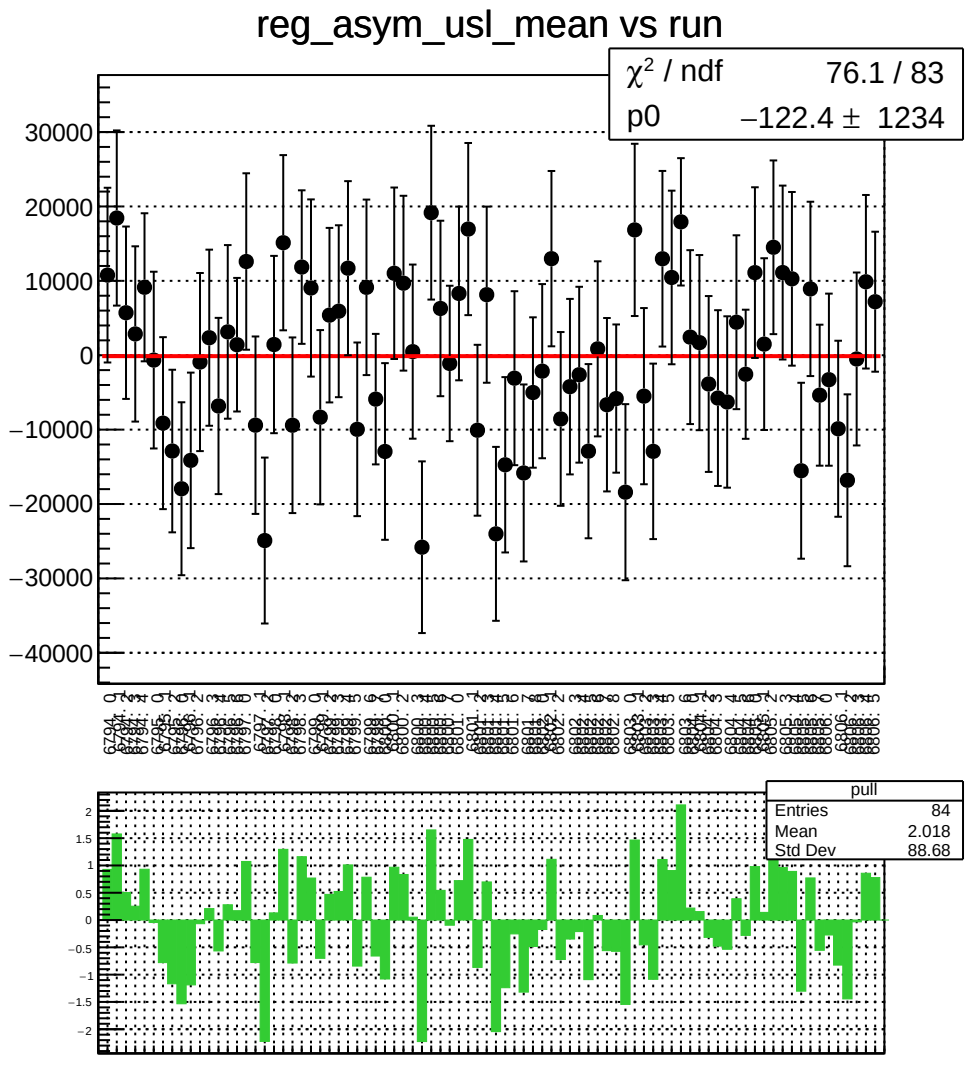

pull1D
Entries 84
Mean 0.0947
Std Dev 0.9095

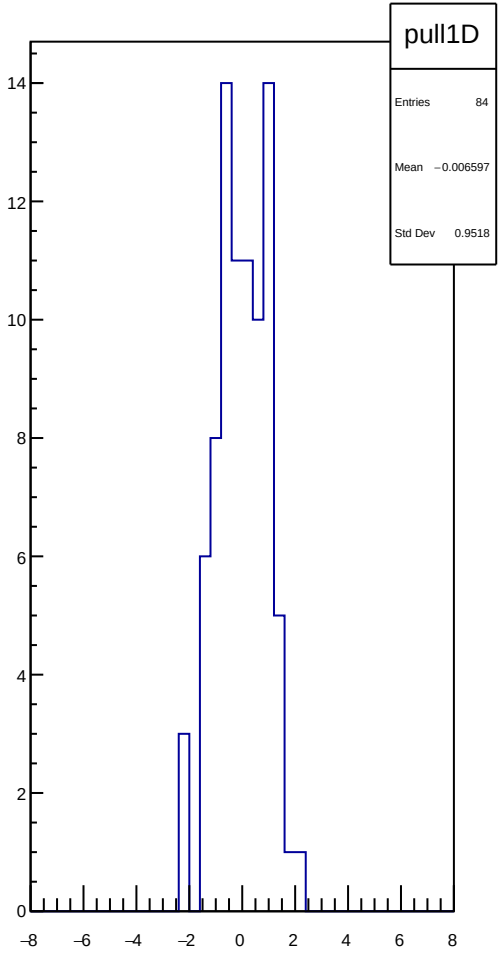

asym_ds_dd_correction_rms vs run
χ^2 / ndf 2.25e+05 / 83
p0 1.336 ± 0.00113
3.5
3
2.5
2
1.5
1
0.5

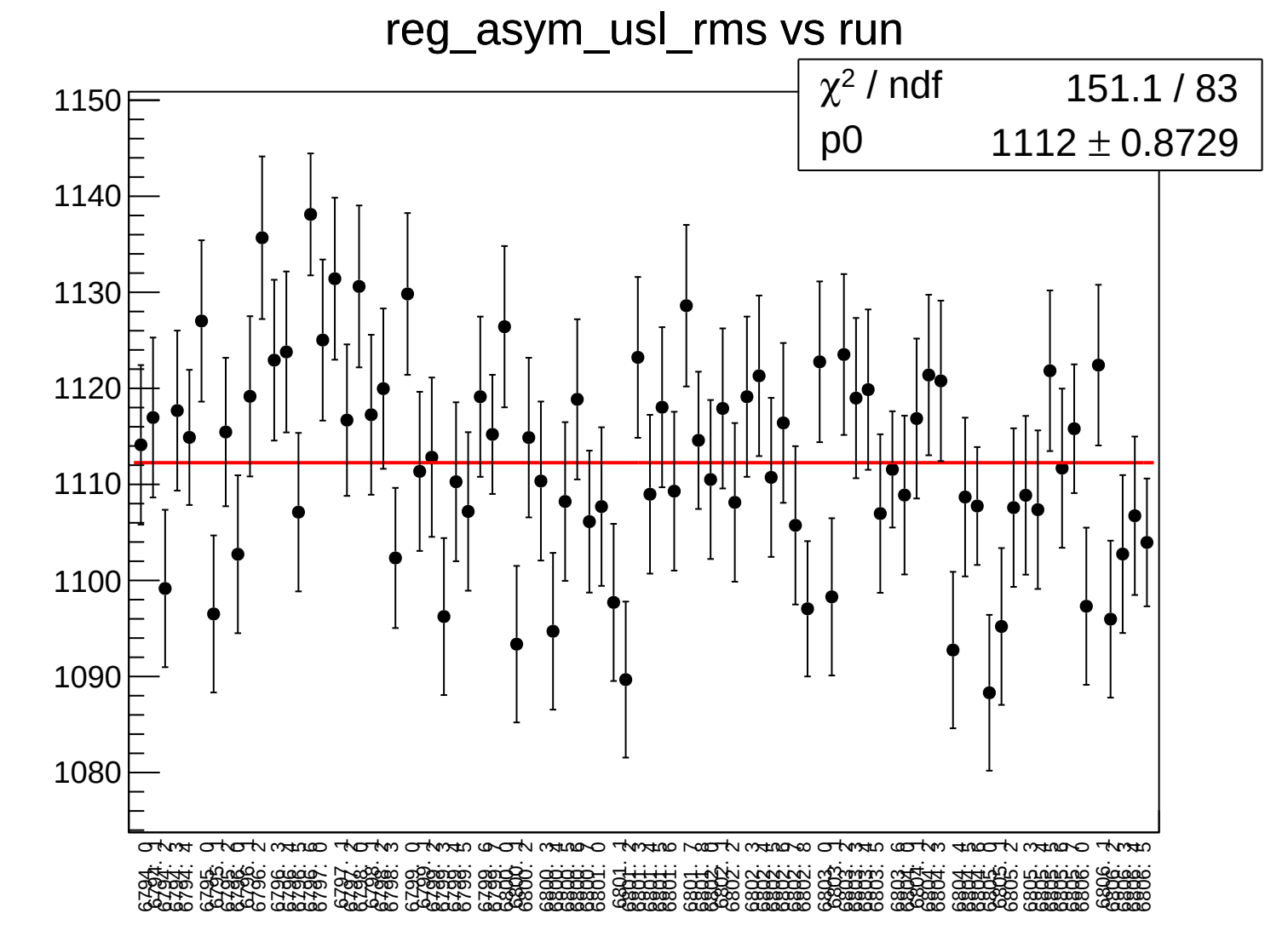

asym_ds_dd_mean vs run
χ² / ndf 79.8 / 83
p0 76.09 ± 95.37
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 436.6
Std Dev 418.1
2
1
0
−1
−2

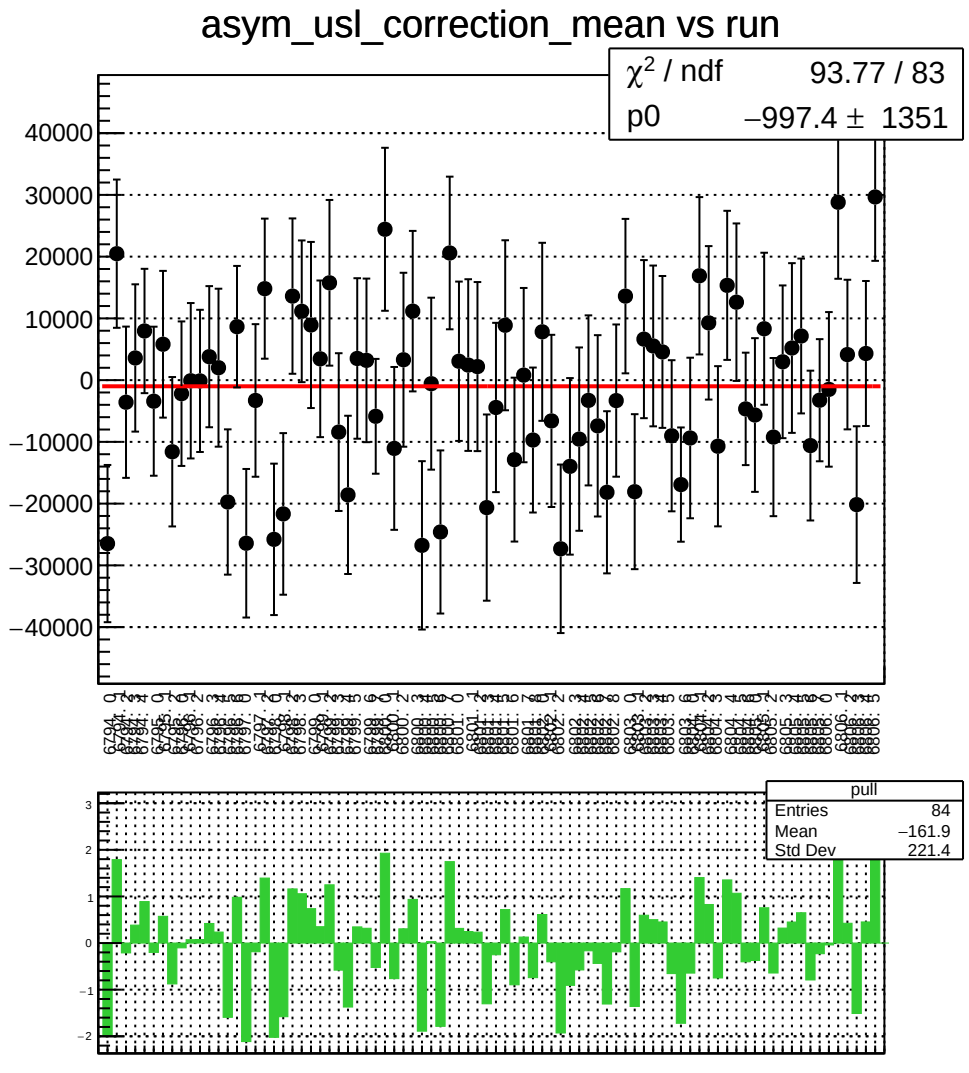

pull1D
Entries 84
Mean −0.003582
Std Dev 0.9747
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

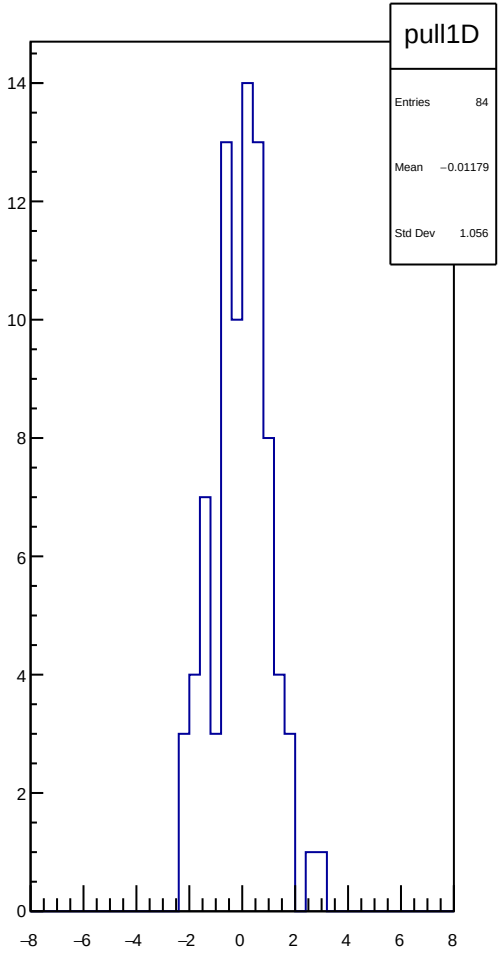

asym_ds_dd_rms vs run
χ^2 / ndf 250.1 / 83
p0 85.92 ± 0.06743
91
90
89
88
87
86
85
84
83

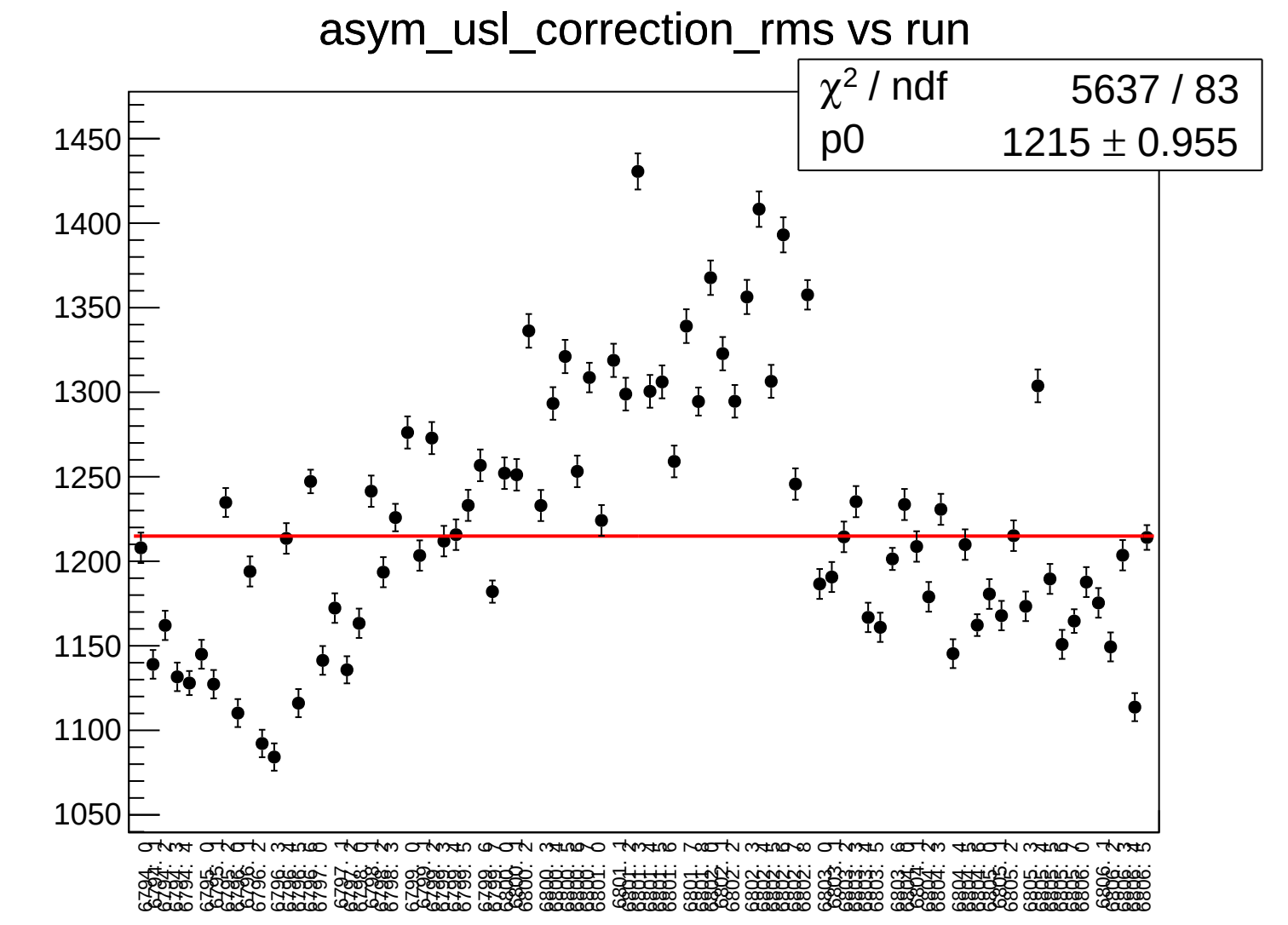

reg_asym_usl_mean vs run
χ² / ndf 76.1 / 83
p0 −122.4 ± 1234
pull
Entries 84
Mean 2.018
Std Dev 88.68

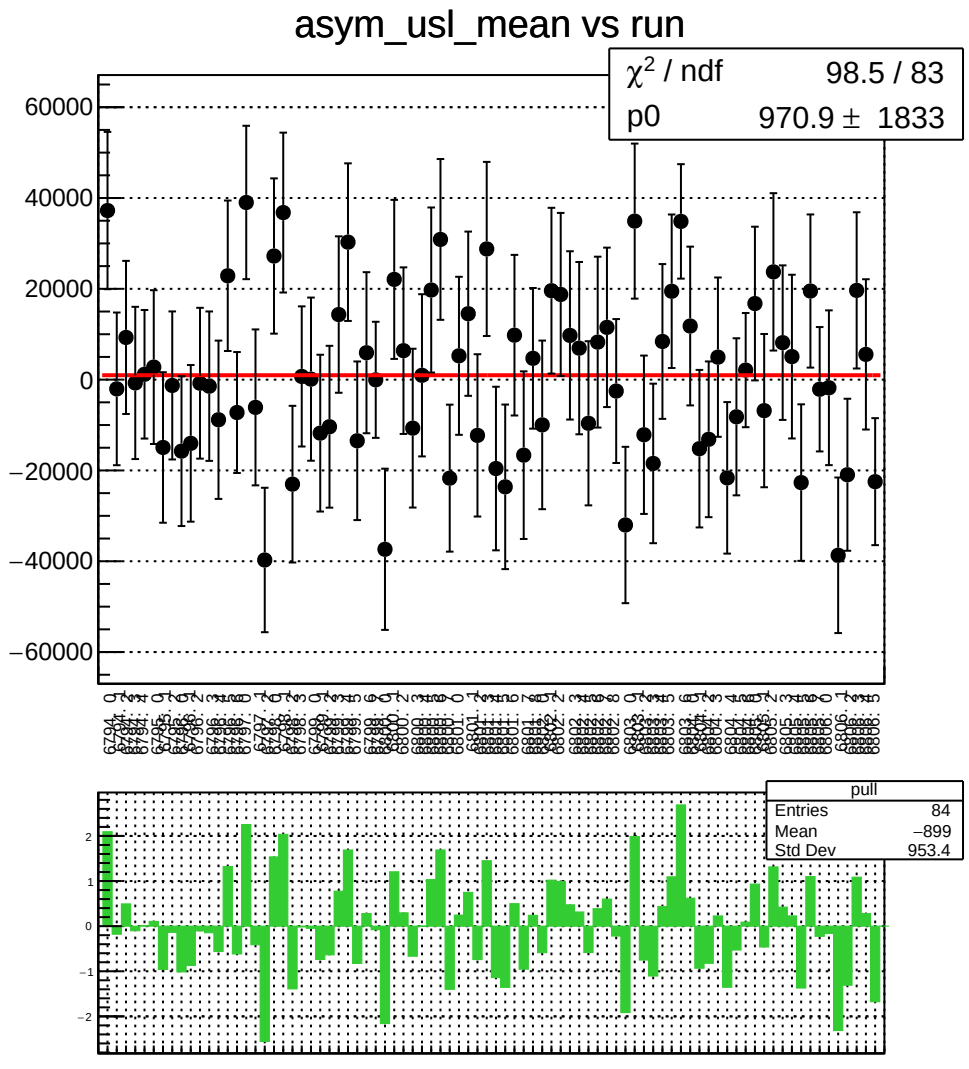

pull1D
Entries 84
Mean −0.006597
Std Dev 0.9518

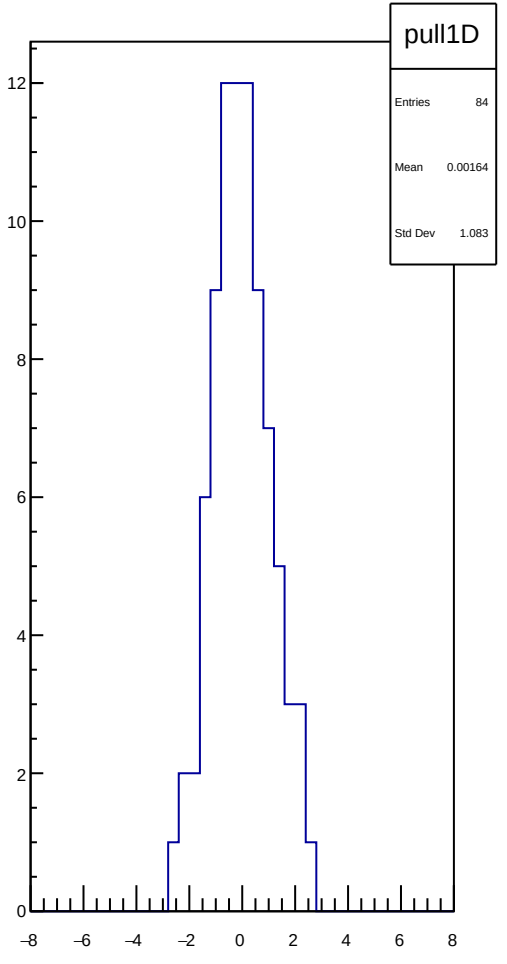

reg_asym_usl_rms vs run
χ² / ndf 151.1 / 83
p0 1112 ± 0.8729
1150
1140
1130
1120
1110
1100
1090
1080

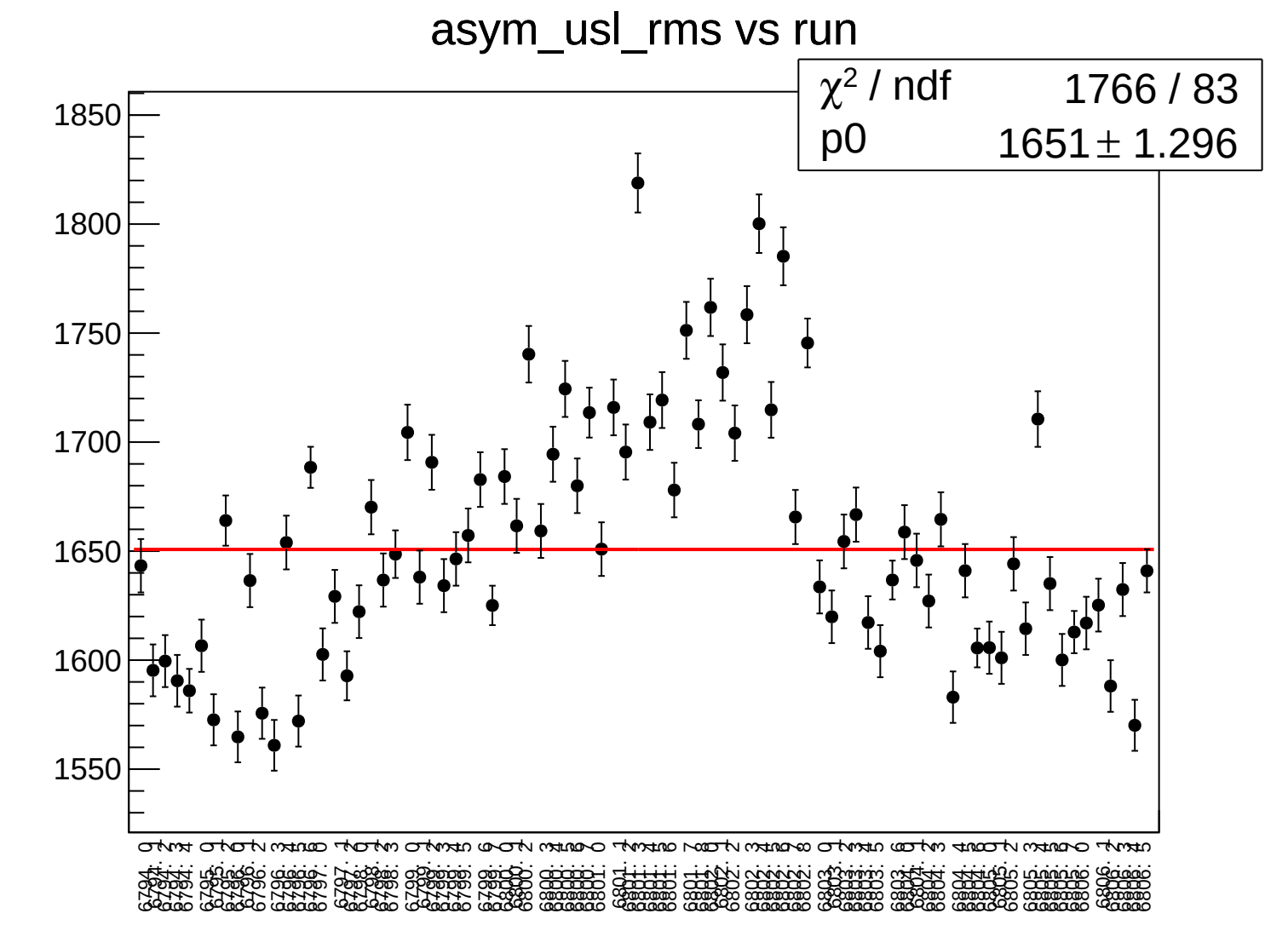

asym_usl_correction_mean vs run
χ² / ndf 93.77 / 83
p0 −997.4 ± 1351
pull
Entries 84
Mean −161.9
Std Dev 221.4

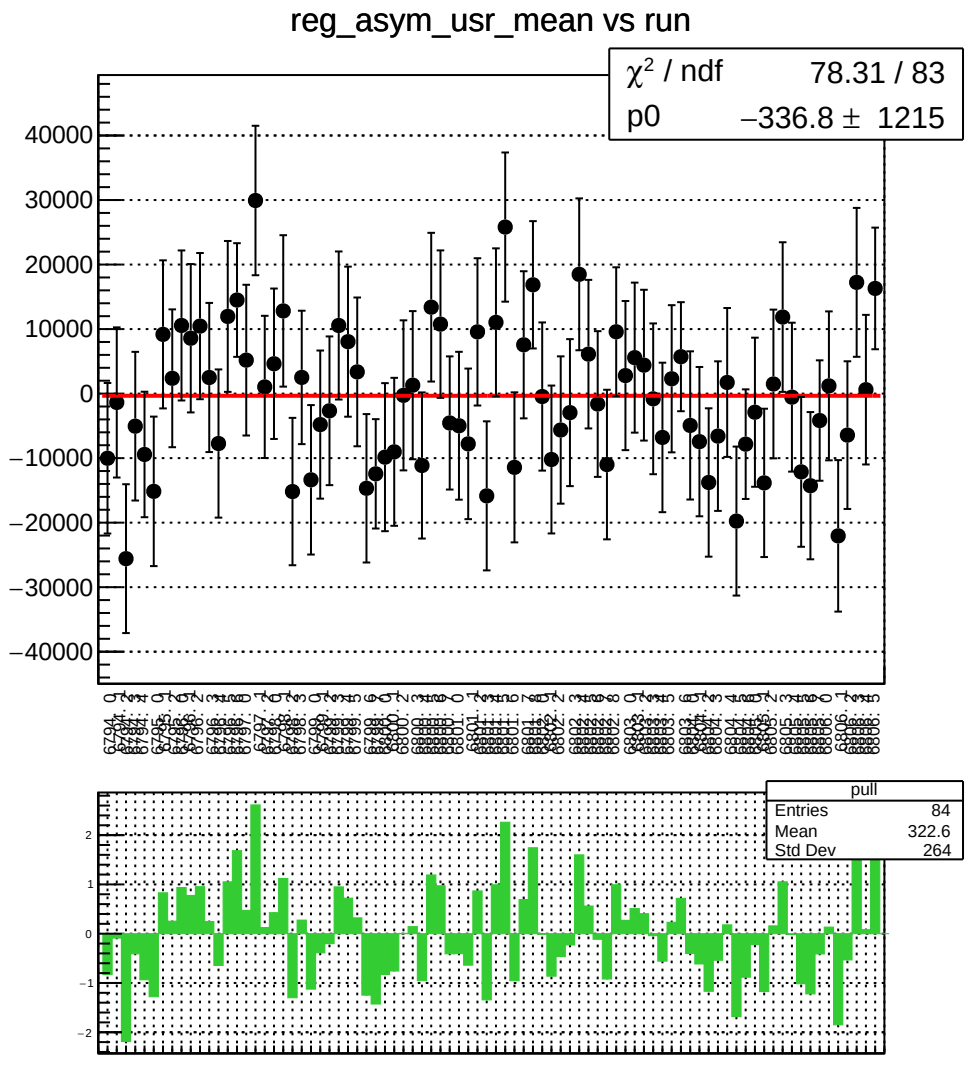

pull1D
Entries 84
Mean −0.01179
Std Dev 1.056

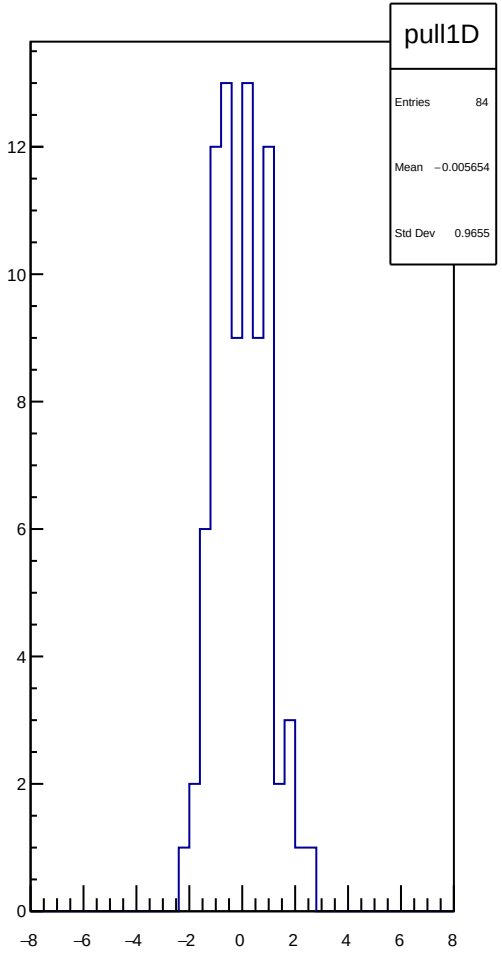

asym_usl_correction_rms vs run
χ² / ndf 5637 / 83
p0 1215 ± 0.955
1450
1400
1350
1300
1250
1200
1150
1100
1050

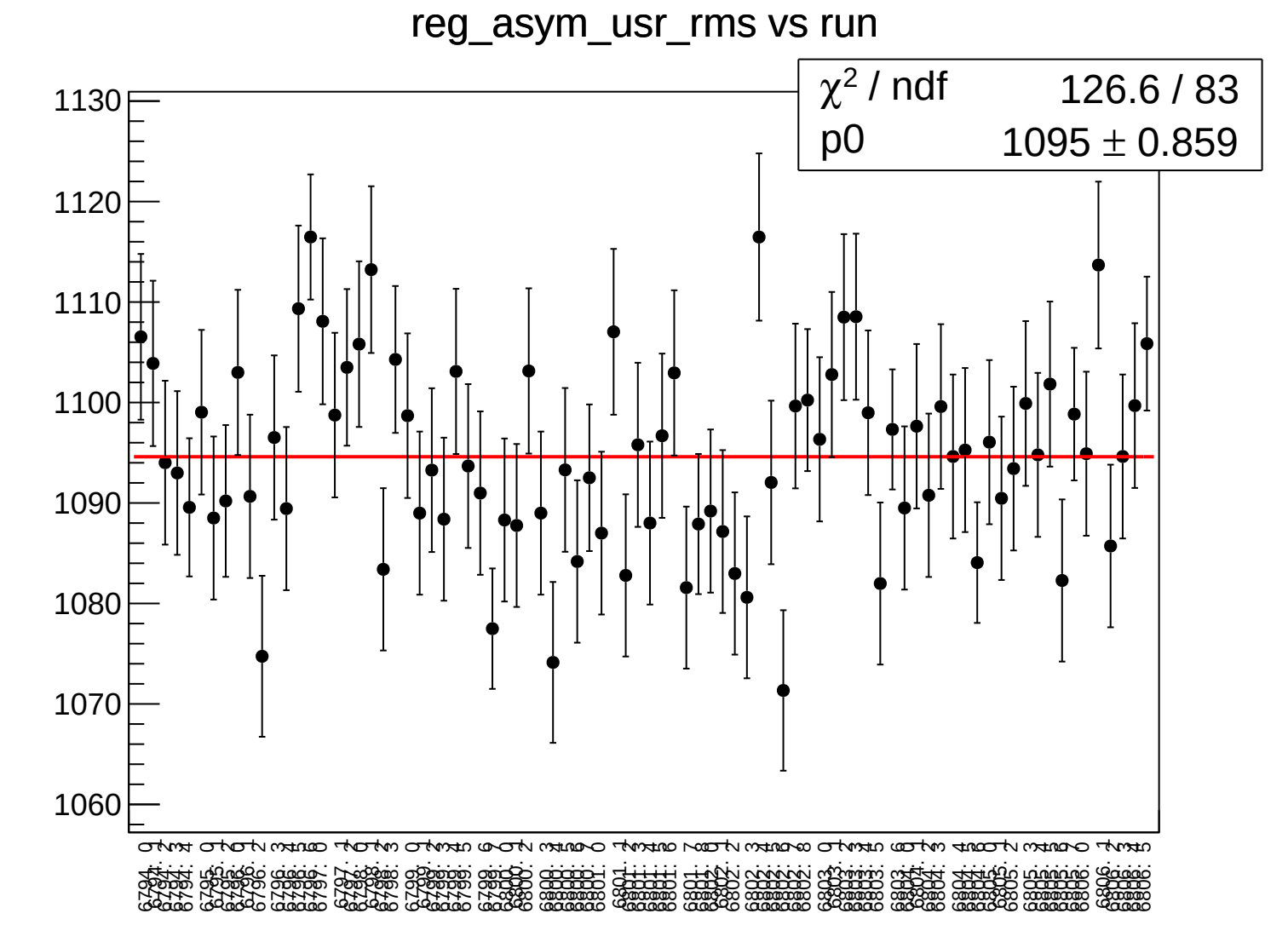

asym_usl_mean vs run
χ² / ndf 98.5 / 83
p0 970.9 ± 1833
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −899
Std Dev 953.4
2
1
0
−1
−2

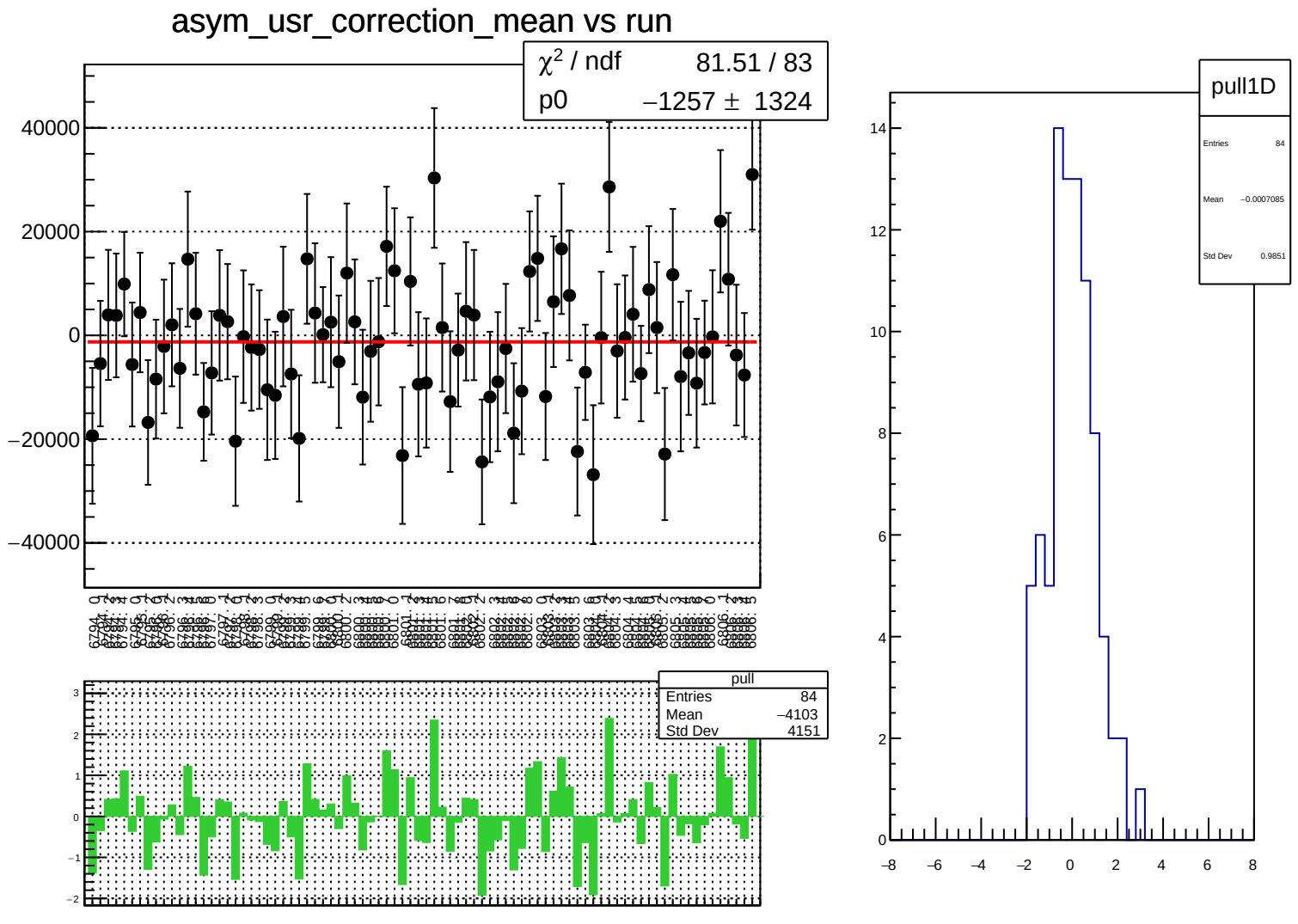

pull1D
Entries 84
Mean 0.00164
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

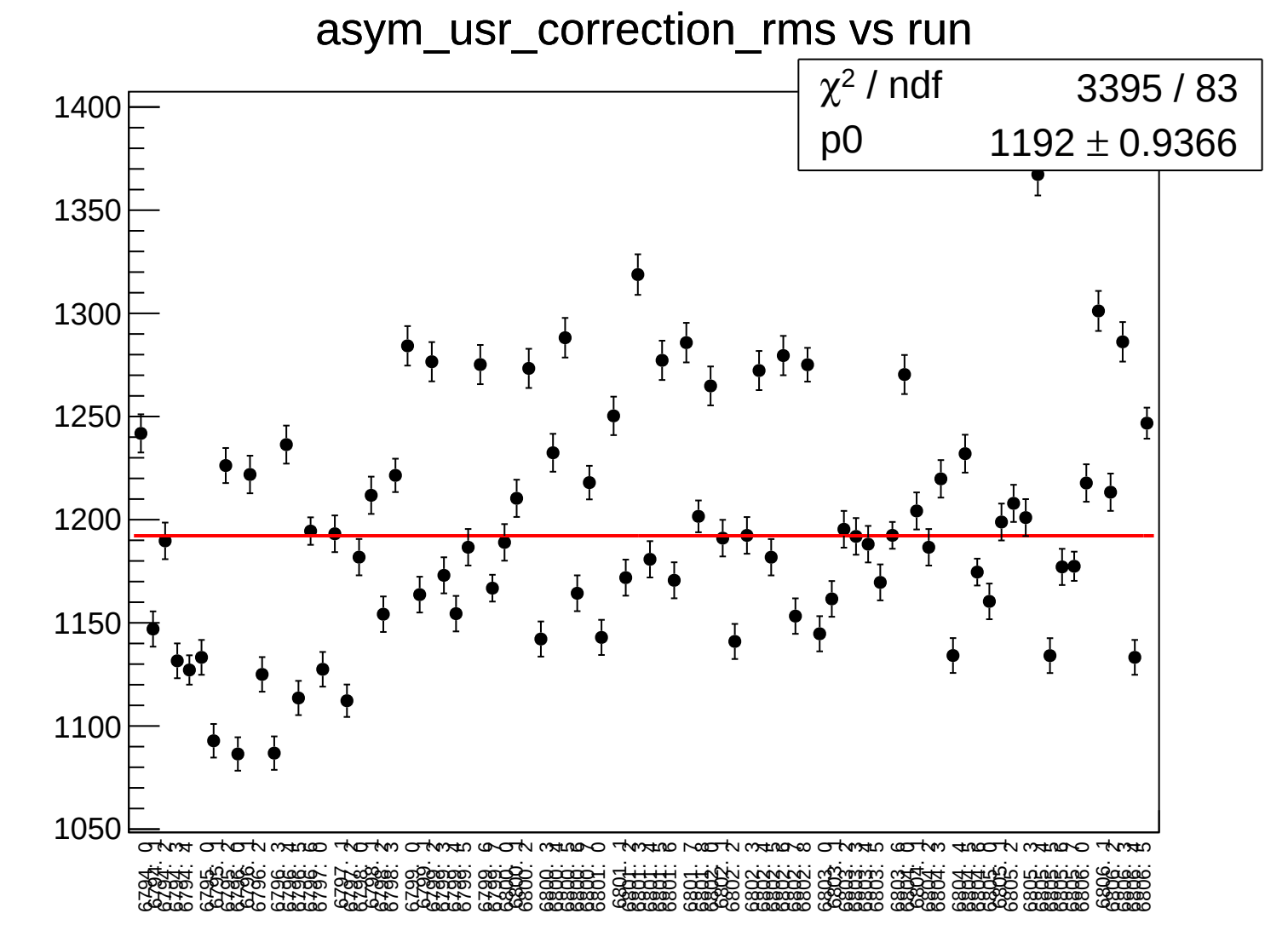

asym_usl_rms vs run
χ² / ndf 1766 / 83
p0 1651 ± 1.296
1850
1800
1750
1700
1650
1600
1550

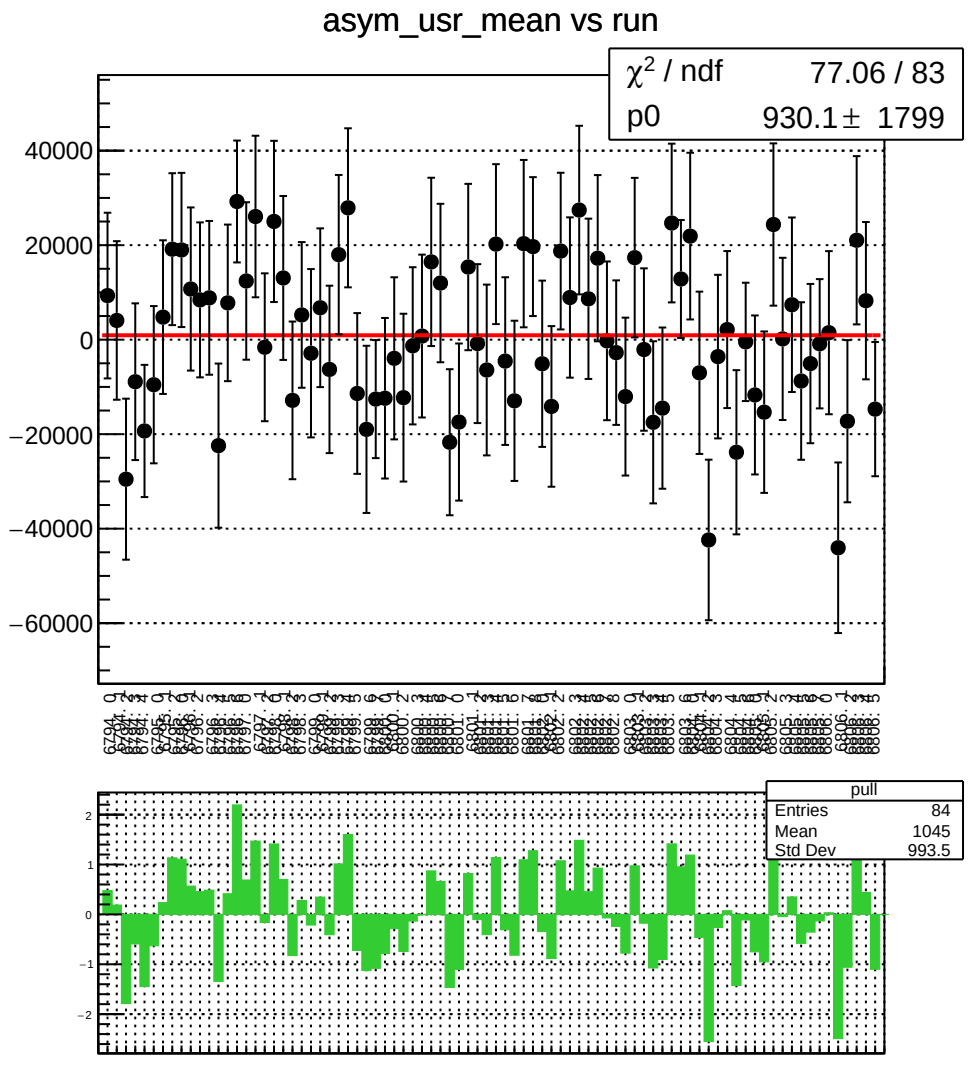

reg_asym_usr_mean vs run
χ² / ndf 78.31 / 83
p0 −336.8 ± 1215
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 322.6
Std Dev 264
2
1
0
−1
−2

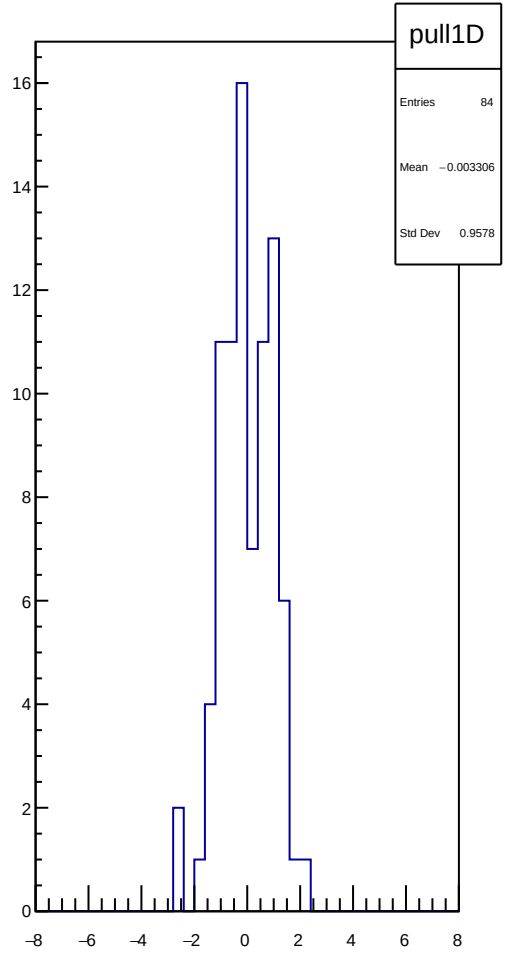

pull1D
Entries 84
Mean −0.005654
Std Dev 0.9655
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

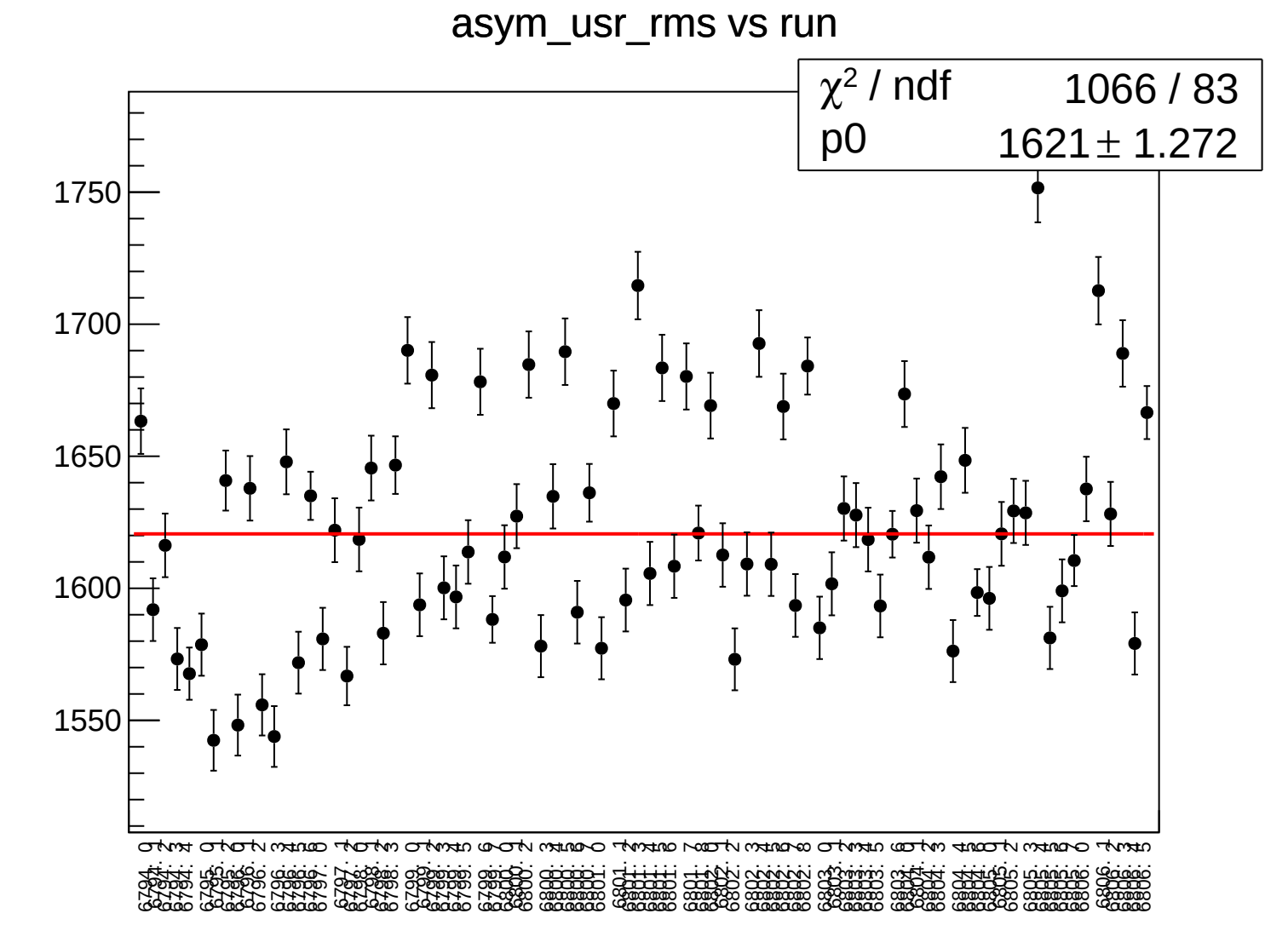

reg_asym_usr_rms vs run
χ² / ndf 126.6 / 83
p0 1095 ± 0.859
1130
1120
1110
1100
1090
1080
1070
1060

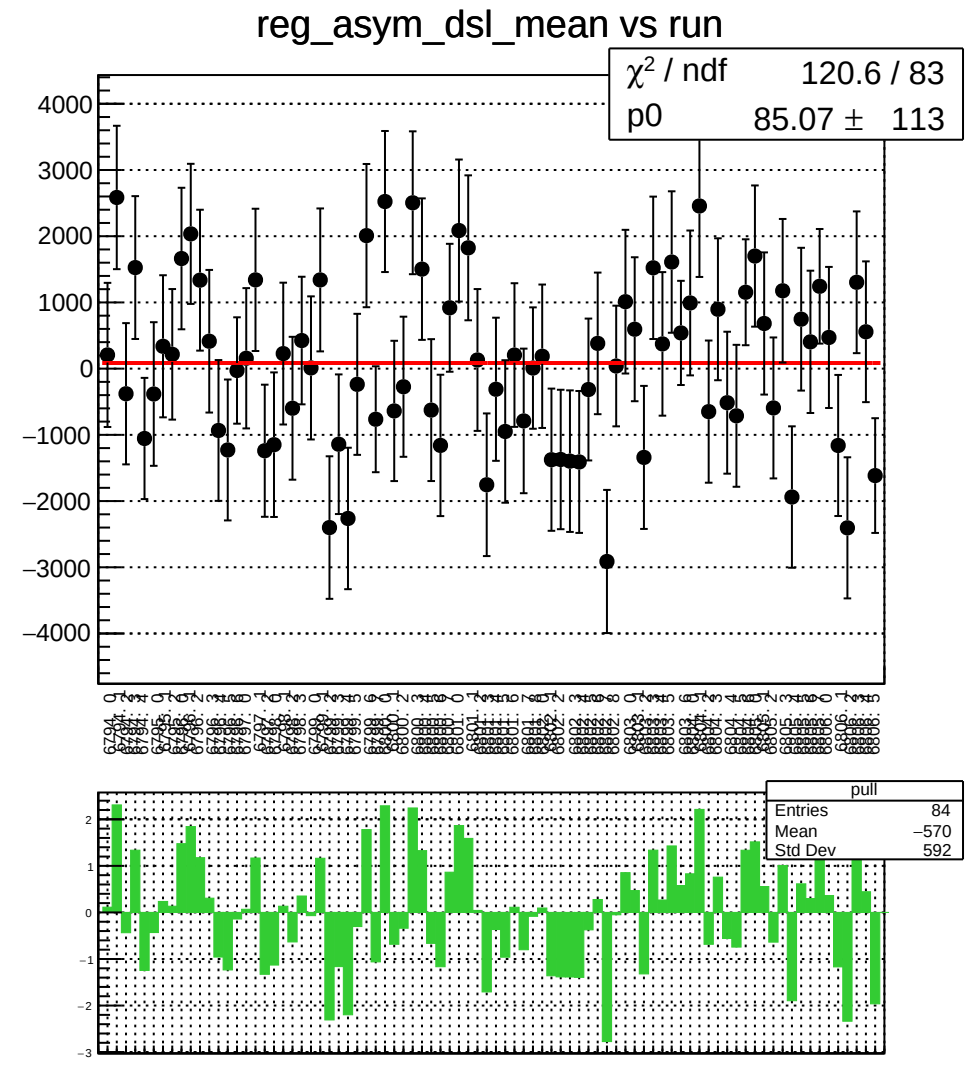

asym_usr_correction_mean vs run
χ² / ndf 81.51 / 83
p0 −1257 ± 1324
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −4103
Std Dev 4151
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.0007085
Std Dev 0.9851
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

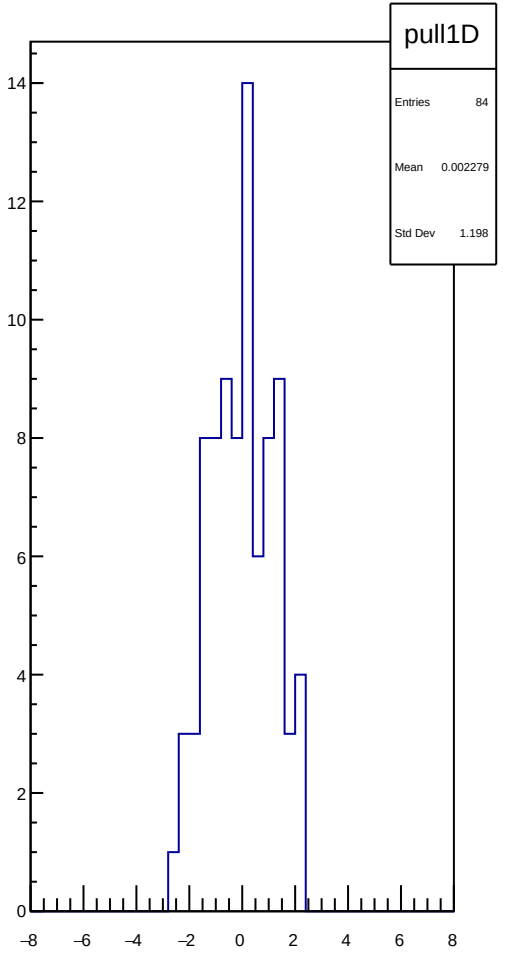

asym_usr_correction_rms vs run
χ² / ndf 3395 / 83
p0 1192 ± 0.9366
1400
1350
1300
1250
1200
1150
1100
1050

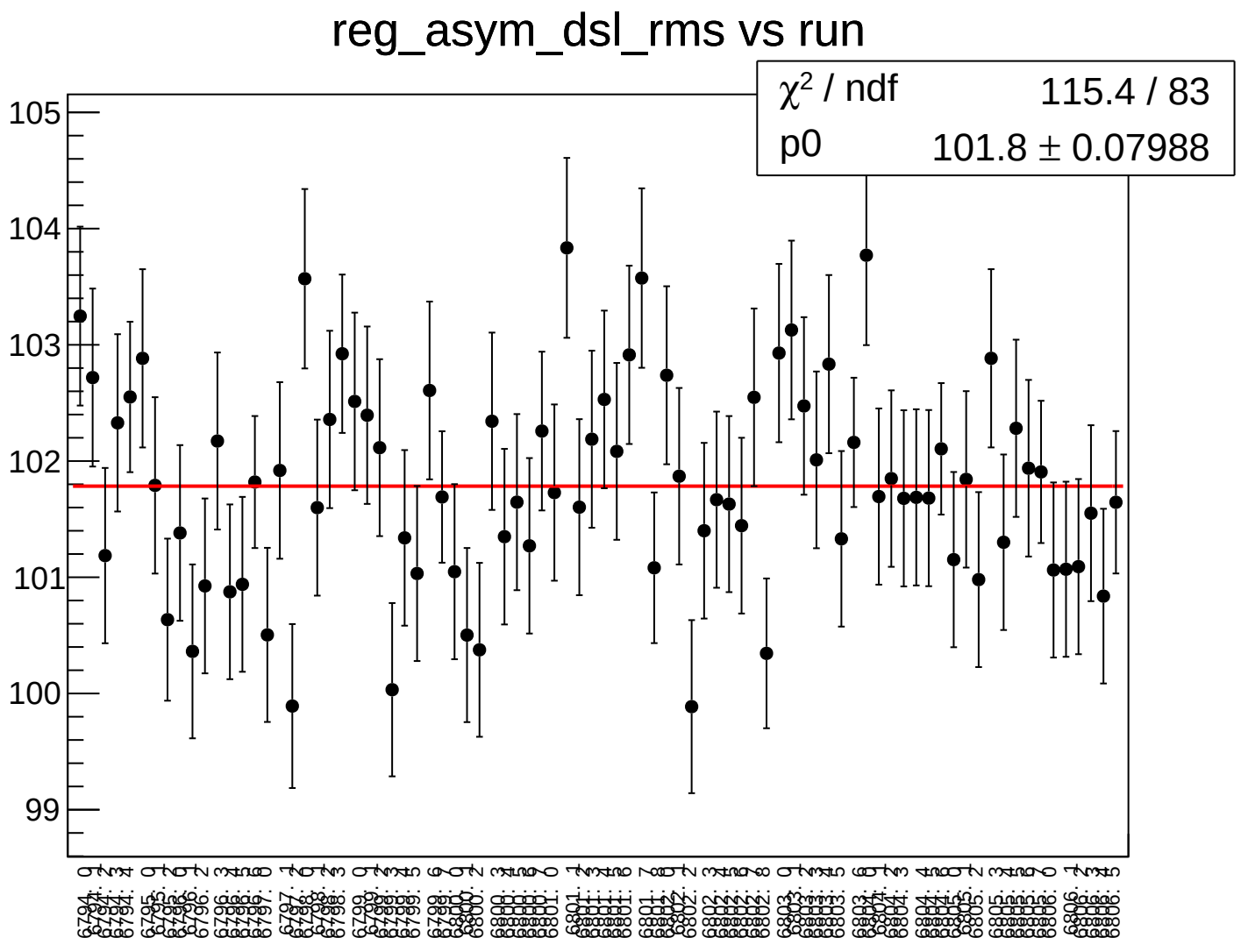

asym_usr_mean vs run
χ² / ndf 77.06 / 83
p0 930.1 ± 1799
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1045
Std Dev 993.5
2
1
0
−1
−2

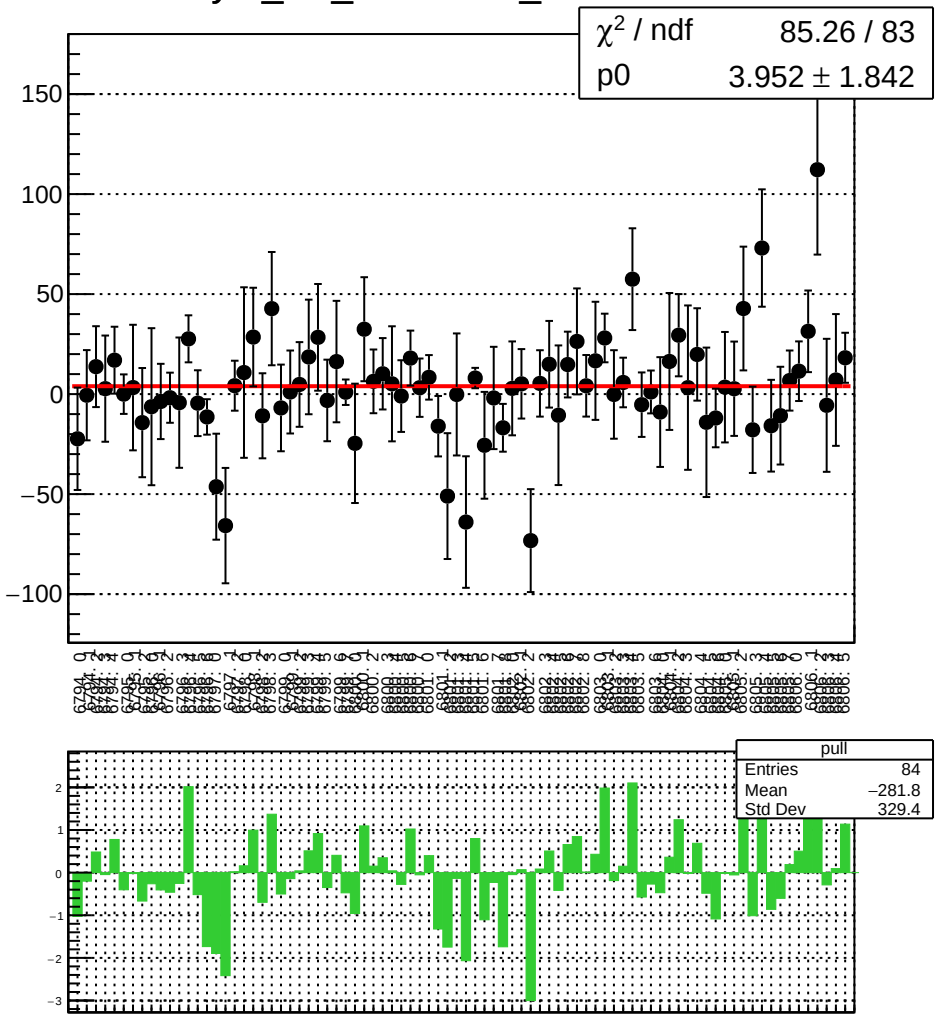

pull1D
Entries 84
Mean −0.003306
Std Dev 0.9578
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

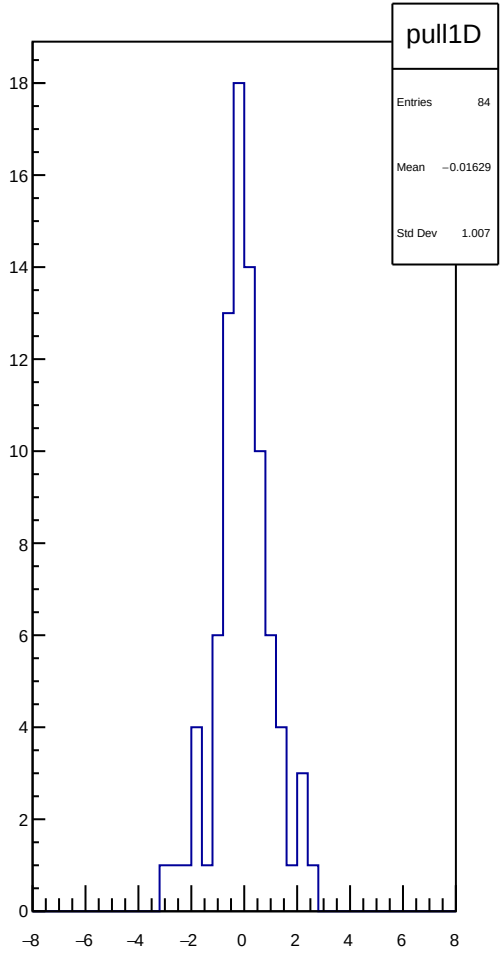

asym_usr_rms vs run
χ² / ndf 1066 / 83
p0 1621 ± 1.272
1750
1700
1650
1600
1550

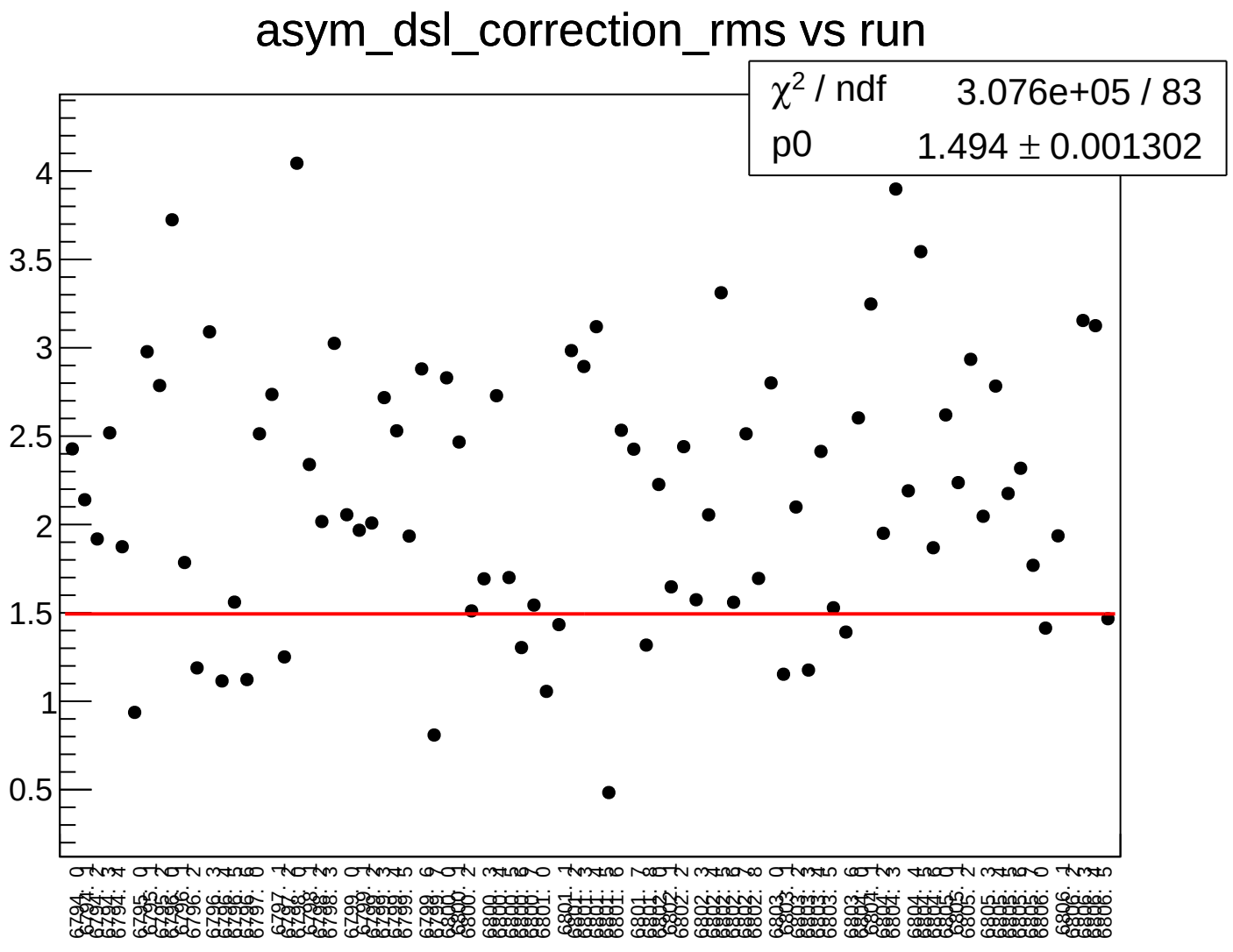

reg_asym_dsl_mean vs run
χ² / ndf 120.6 / 83
p0 85.07 ± 113
pull
Entries 84
Mean −570
Std Dev 592

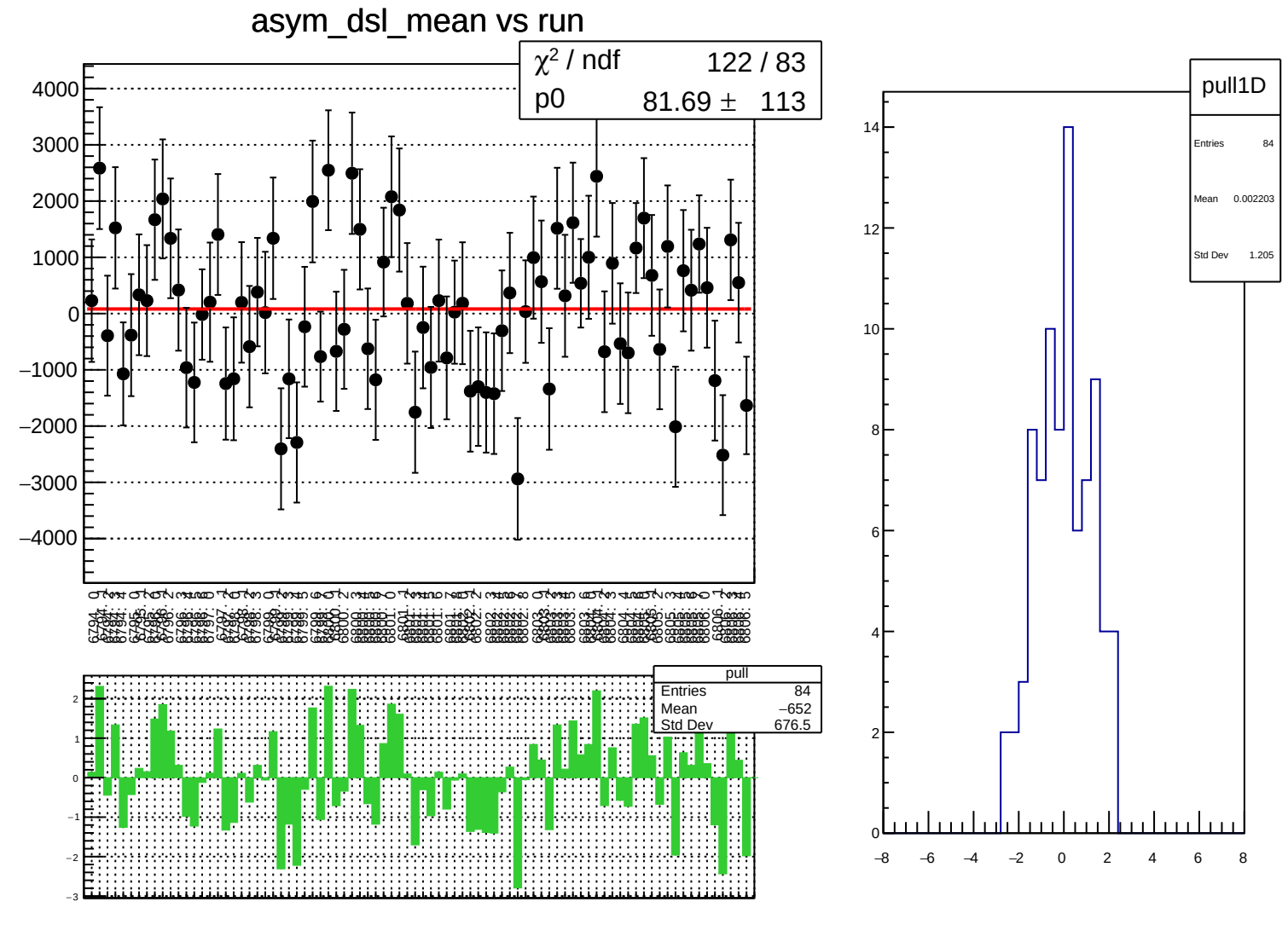

pull1D
Entries 84
Mean 0.002279
Std Dev 1.198

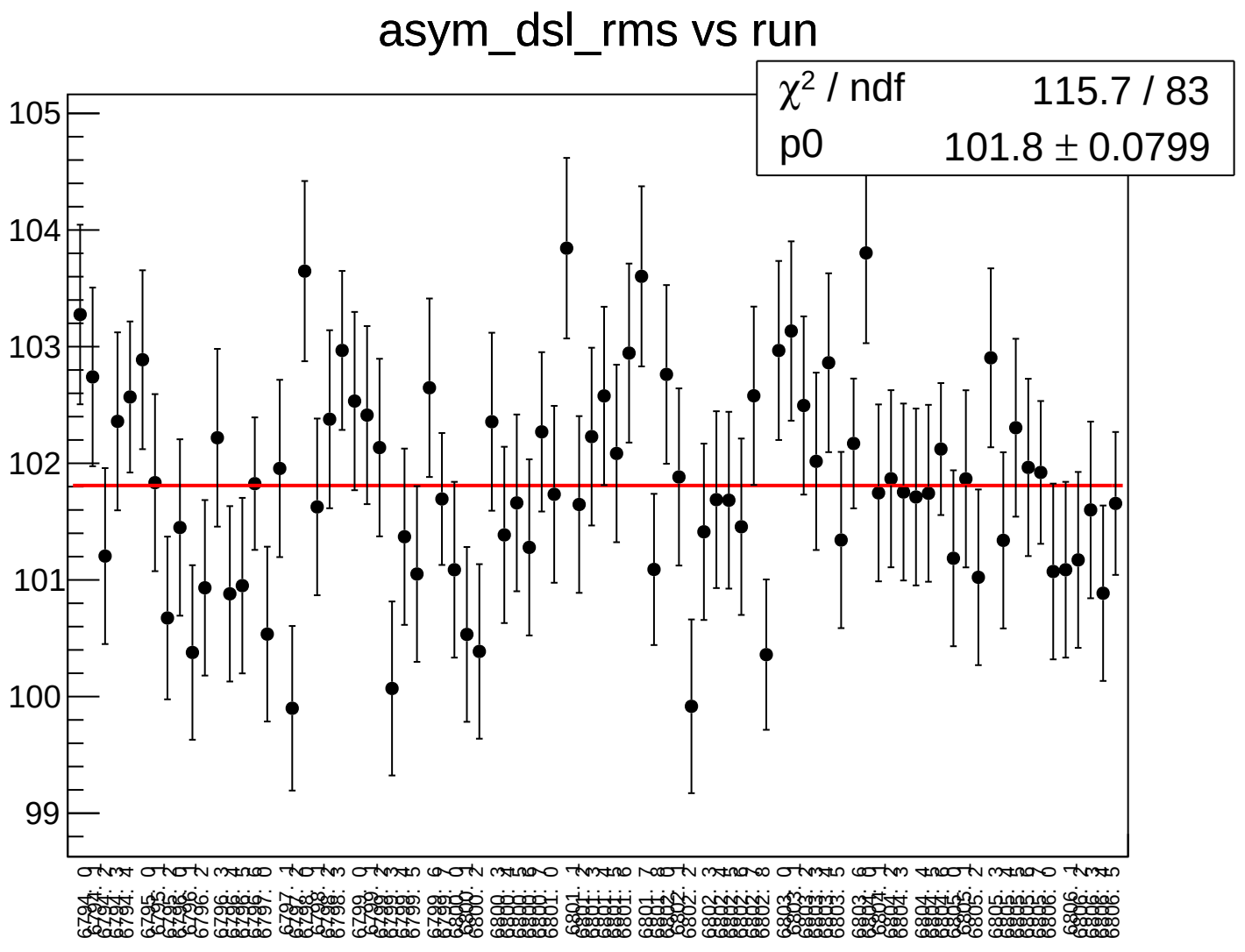

reg_asym_dsl_rms vs run
χ² / ndf 115.4 / 83
p0 101.8 ± 0.07988
105
104
103
102
101
100
99

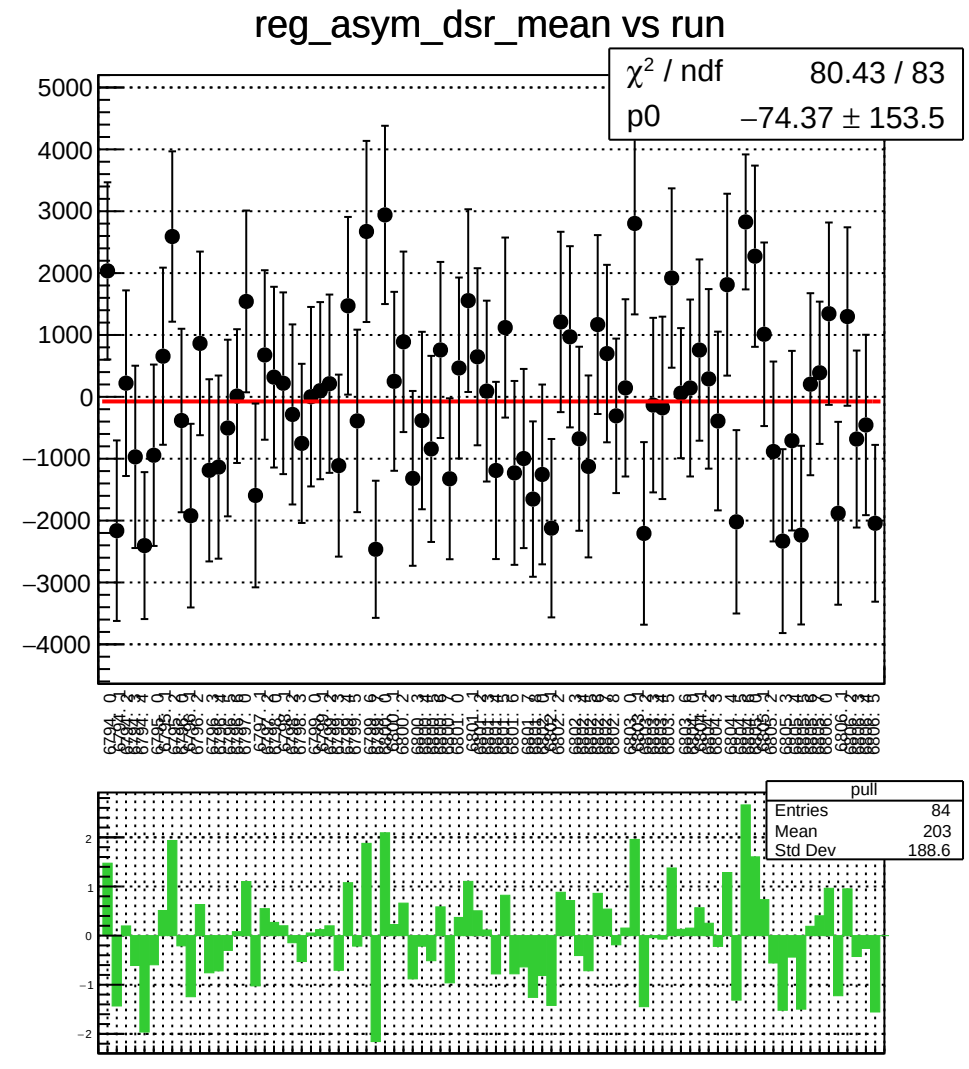

asym_dsl_correction_mean vs run
χ² / ndf 85.26 / 83
p0 3.952 ± 1.842
150
100
50
0
−50
−100
pull
Entries 84
Mean −281.8
Std Dev 329.4
2
1
0
−1
−2
−3

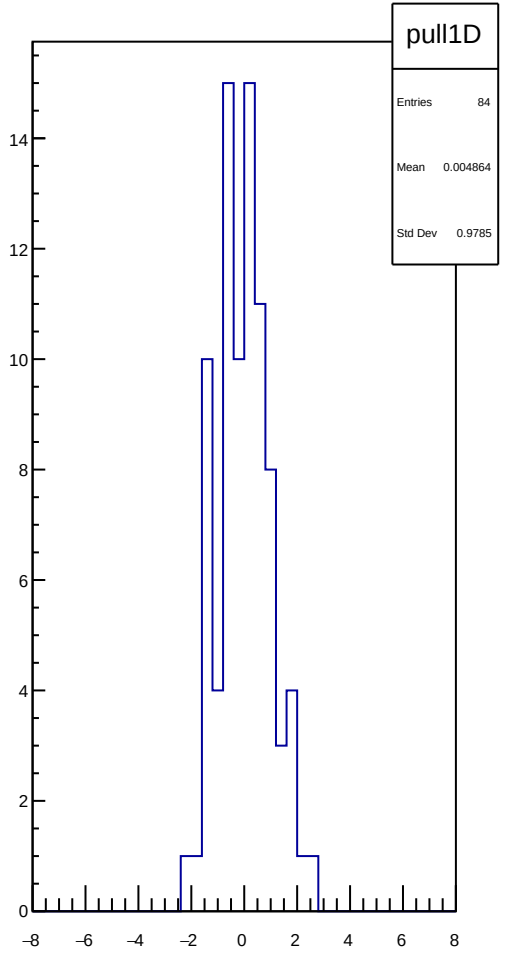

pull1D
Entries 84
Mean −0.01629
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

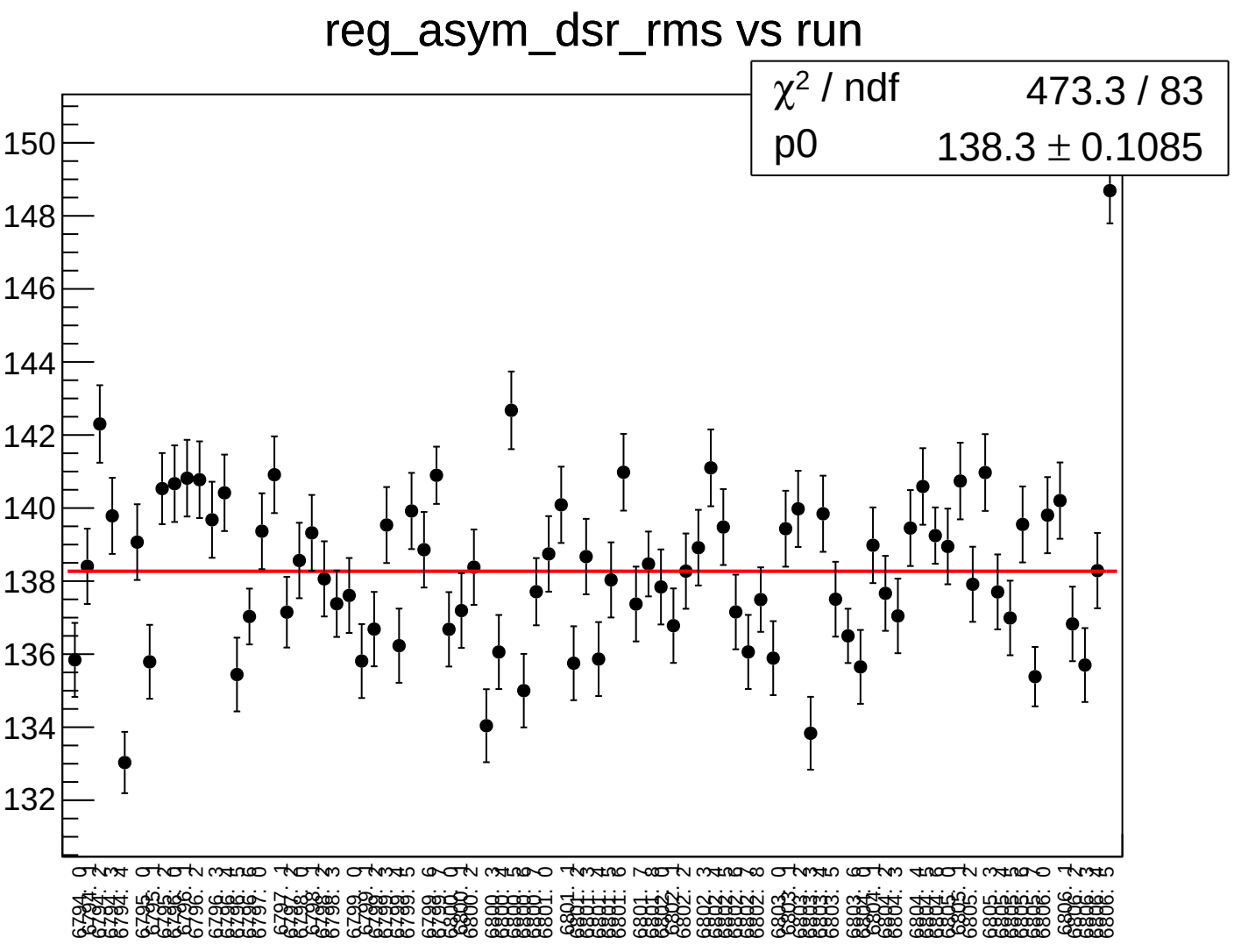

asym_dsl_correction_rms vs run
χ^2 / ndf 3.076e+05 / 83
p0 1.494 ± 0.001302
4
3.5
3
2.5
2
1.5
1
0.5

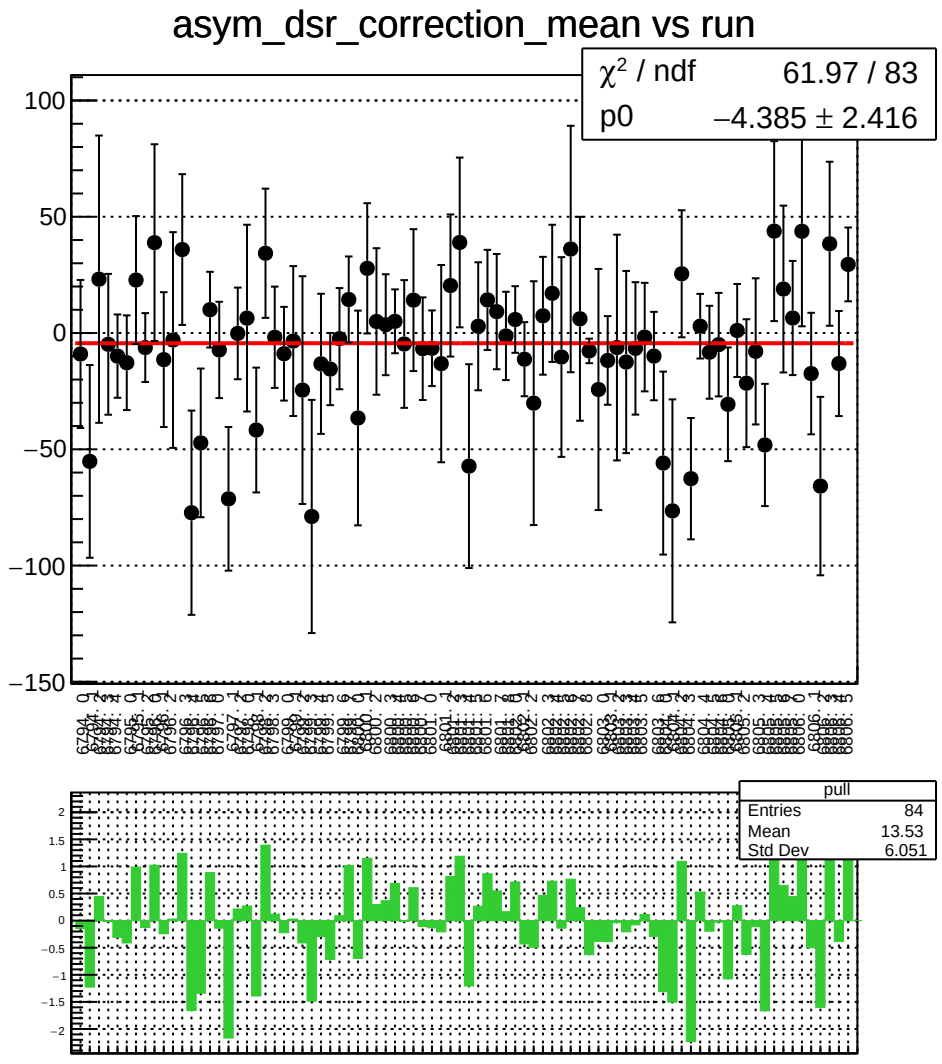

asym_dsl_mean vs run
χ² / ndf 122 / 83
p0 81.69 ± 113
pull
Entries 84
Mean −652
Std Dev 676.5
pull1D
Entries 84
Mean 0.002203
Std Dev 1.205

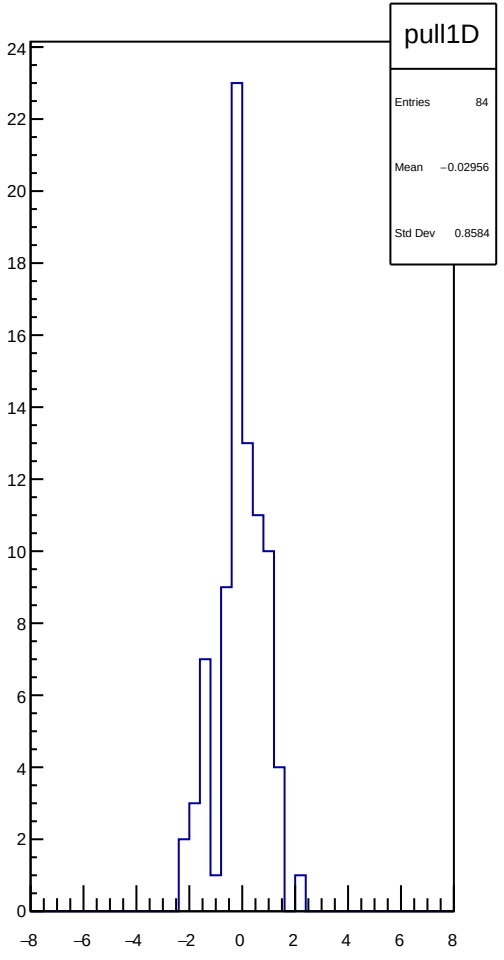

asym_dsl_rms vs run
χ^2 / ndf 115.7 / 83
p0 101.8 ± 0.0799
105
104
103
102
101
100
99

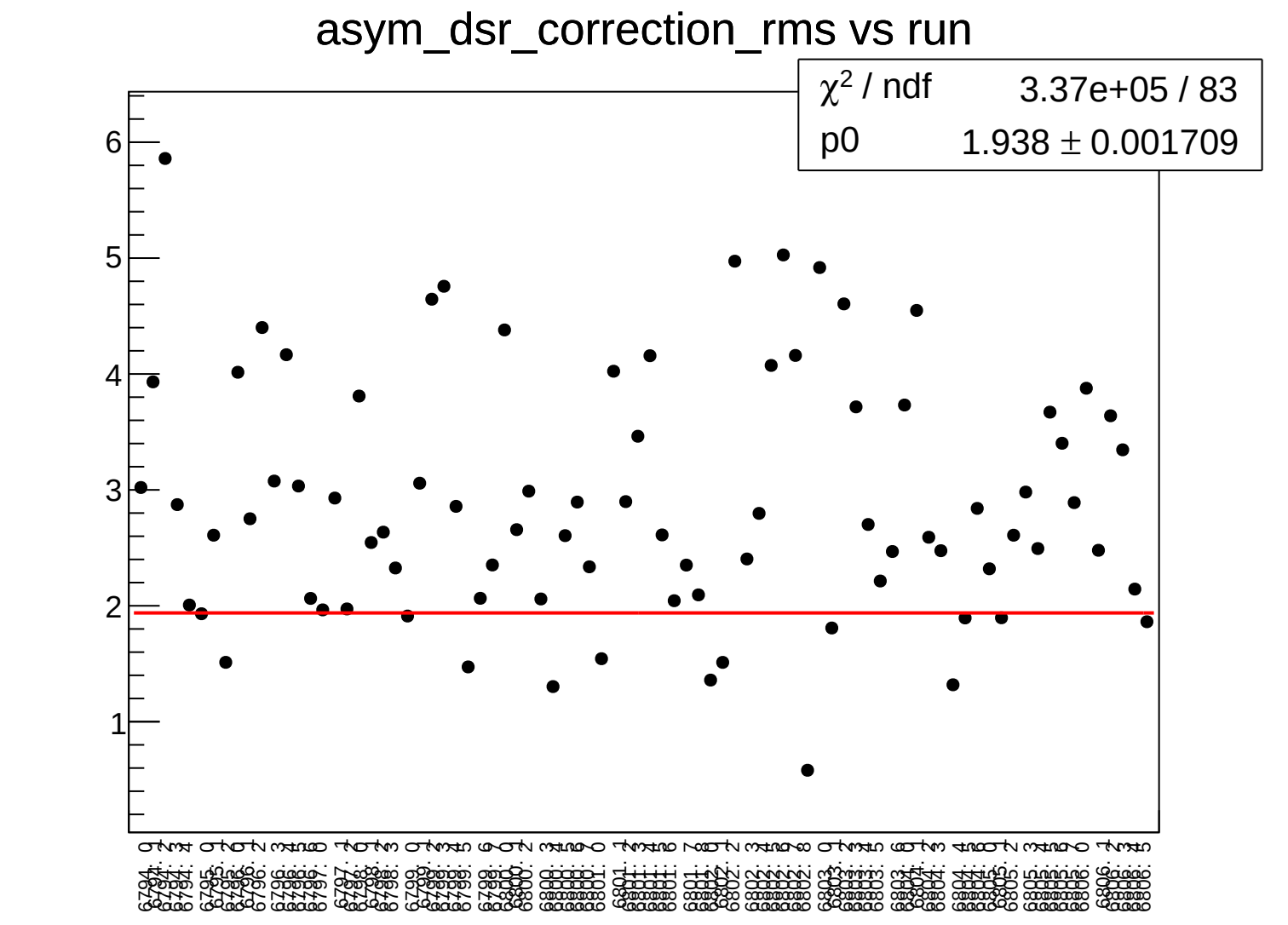

reg_asym_dsr_mean vs run
χ² / ndf 80.43 / 83
p0 −74.37 ± 153.5
pull
Entries 84
Mean 203
Std Dev 188.6

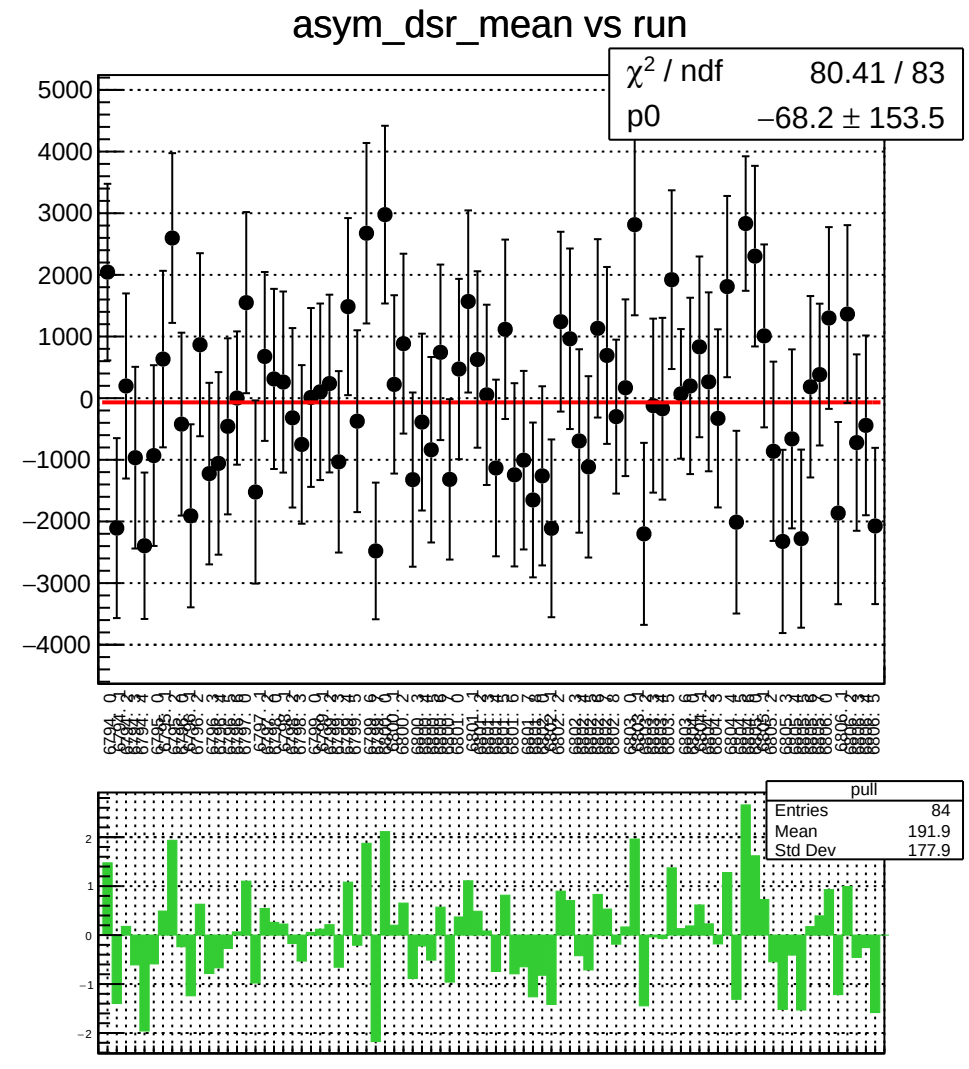

pull1D
Entries 84
Mean 0.004864
Std Dev 0.9785

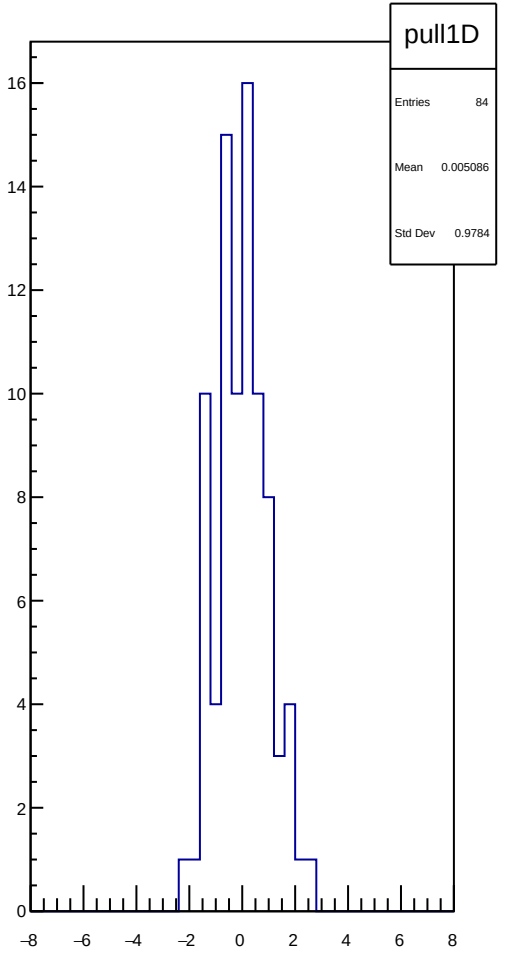

reg_asym_dsr_rms vs run
χ^2 / ndf 473.3 / 83
p0 138.3 ± 0.1085
150
148
146
144
142
140
138
136
134
132

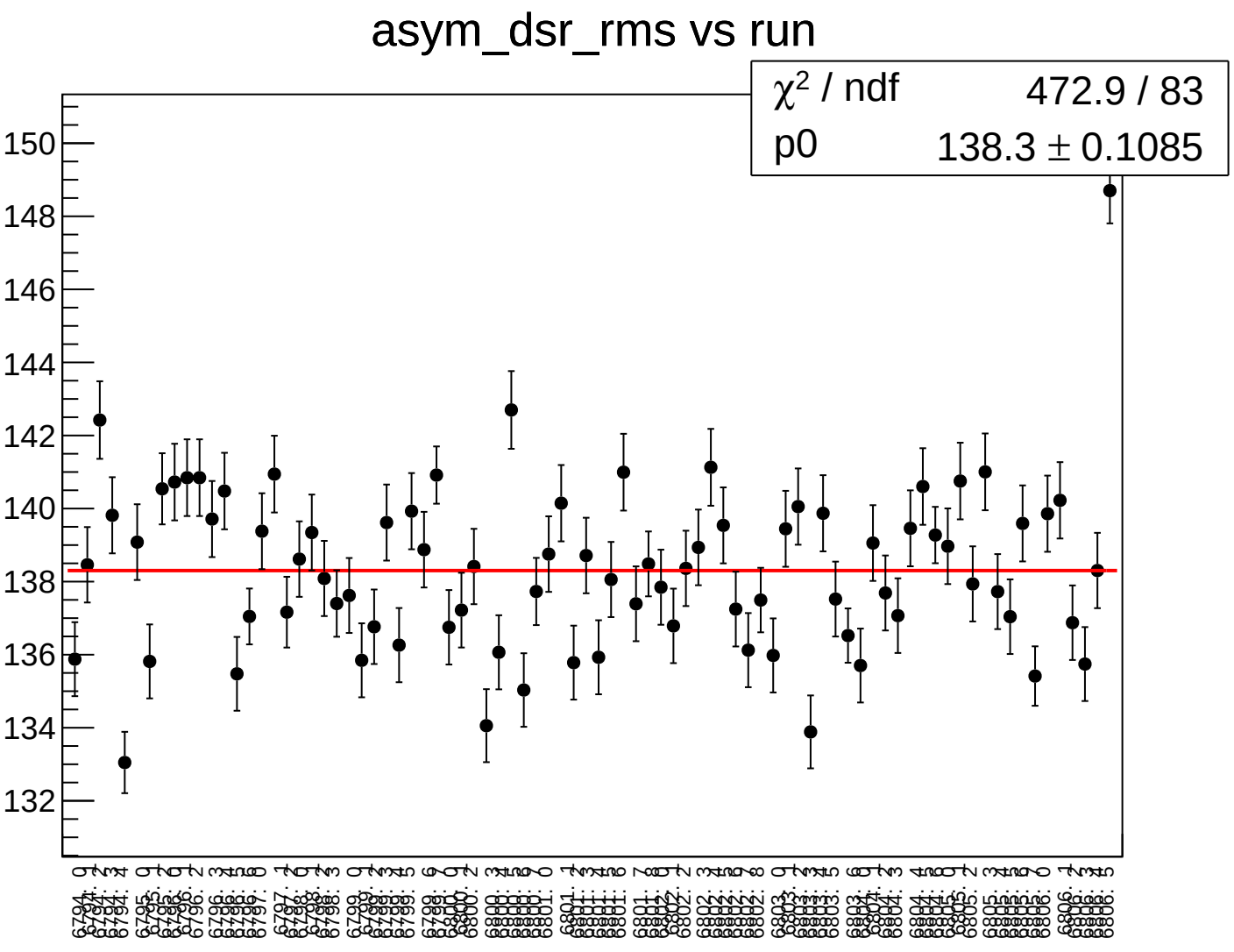

asym_dsr_correction_mean vs run
χ² / ndf 61.97 / 83
p0 −4.385 ± 2.416
pull
Entries 84
Mean 13.53
Std Dev 6.051

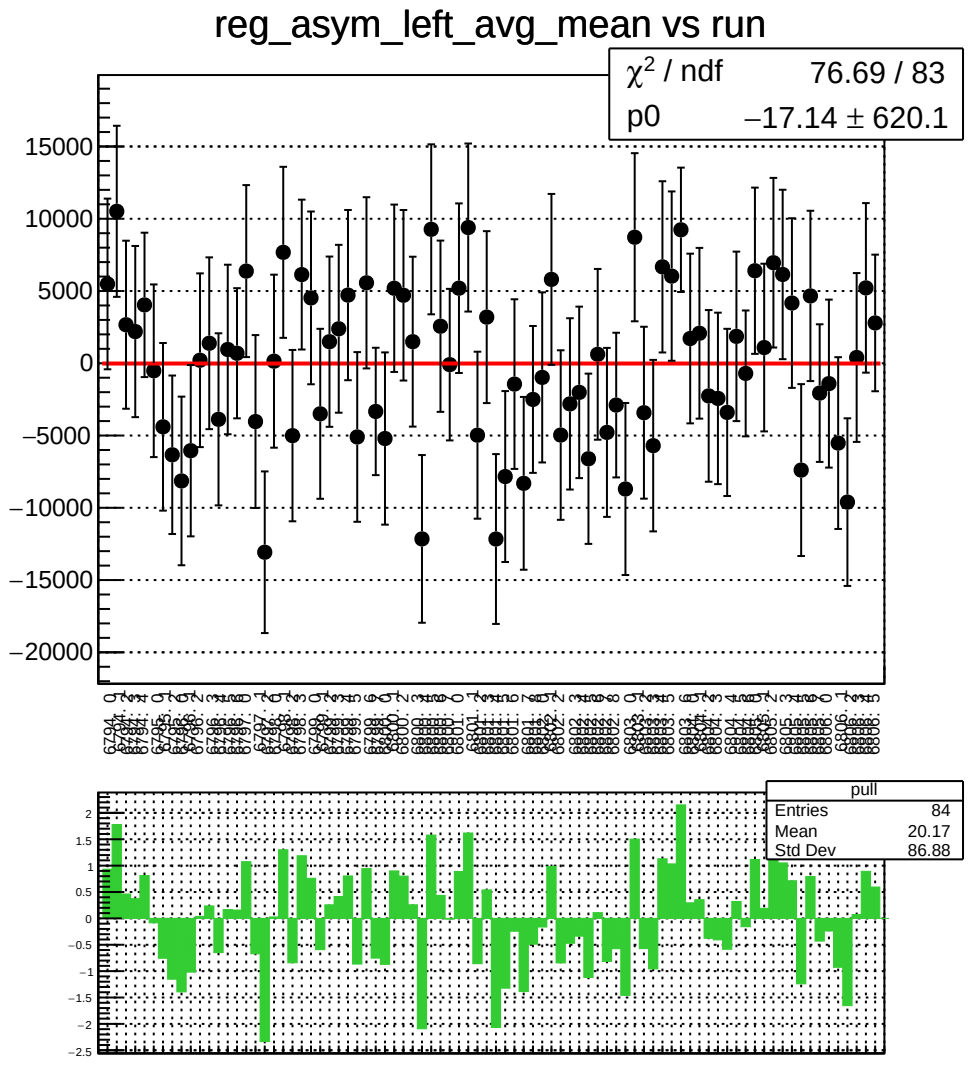

pull1D
Entries 84
Mean −0.02956
Std Dev 0.8584

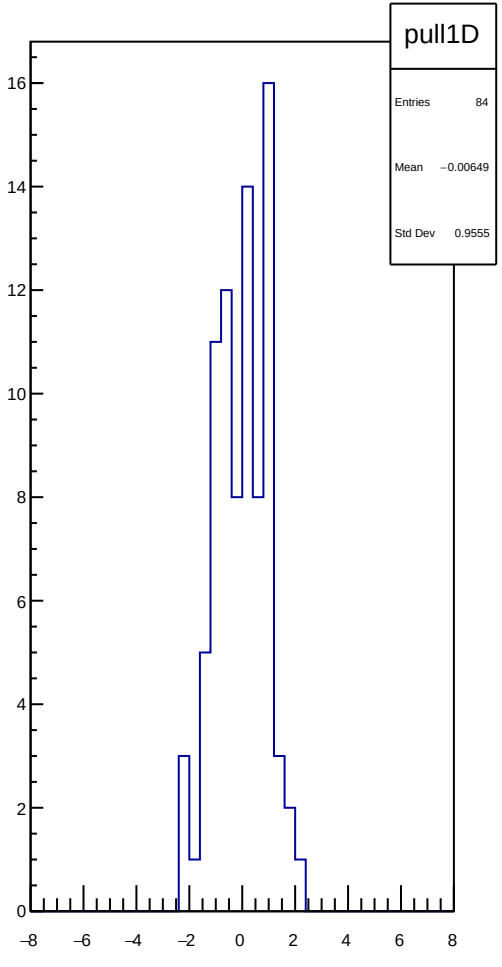

asym_dsr_correction_rms vs run
χ^2 / ndf 3.37e+05 / 83
p0 1.938 ± 0.001709
6
5
4
3
2
1

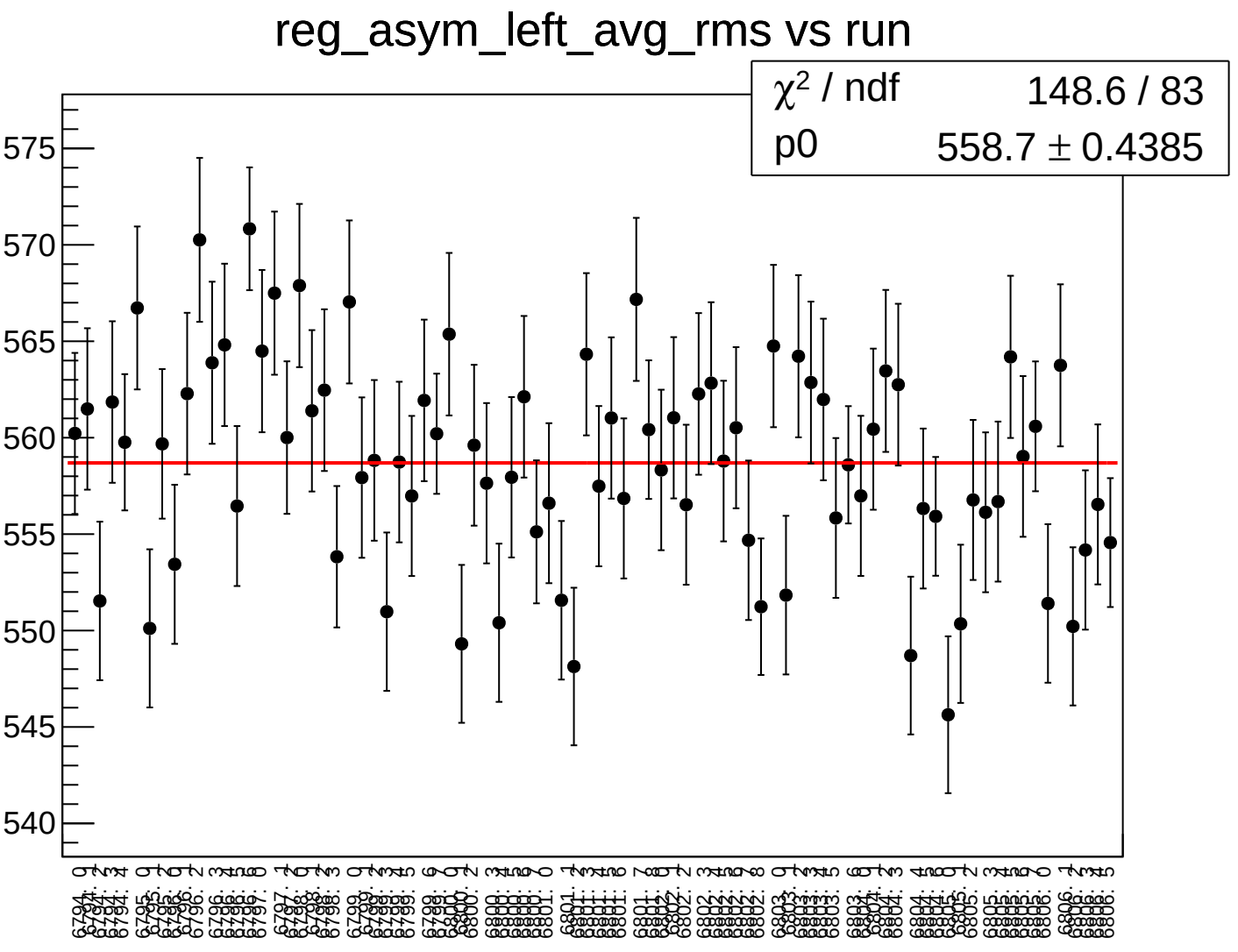

asym_dsr_mean vs run
χ² / ndf 80.41 / 83
p0 −68.2 ± 153.5
pull
Entries 84
Mean 191.9
Std Dev 177.9

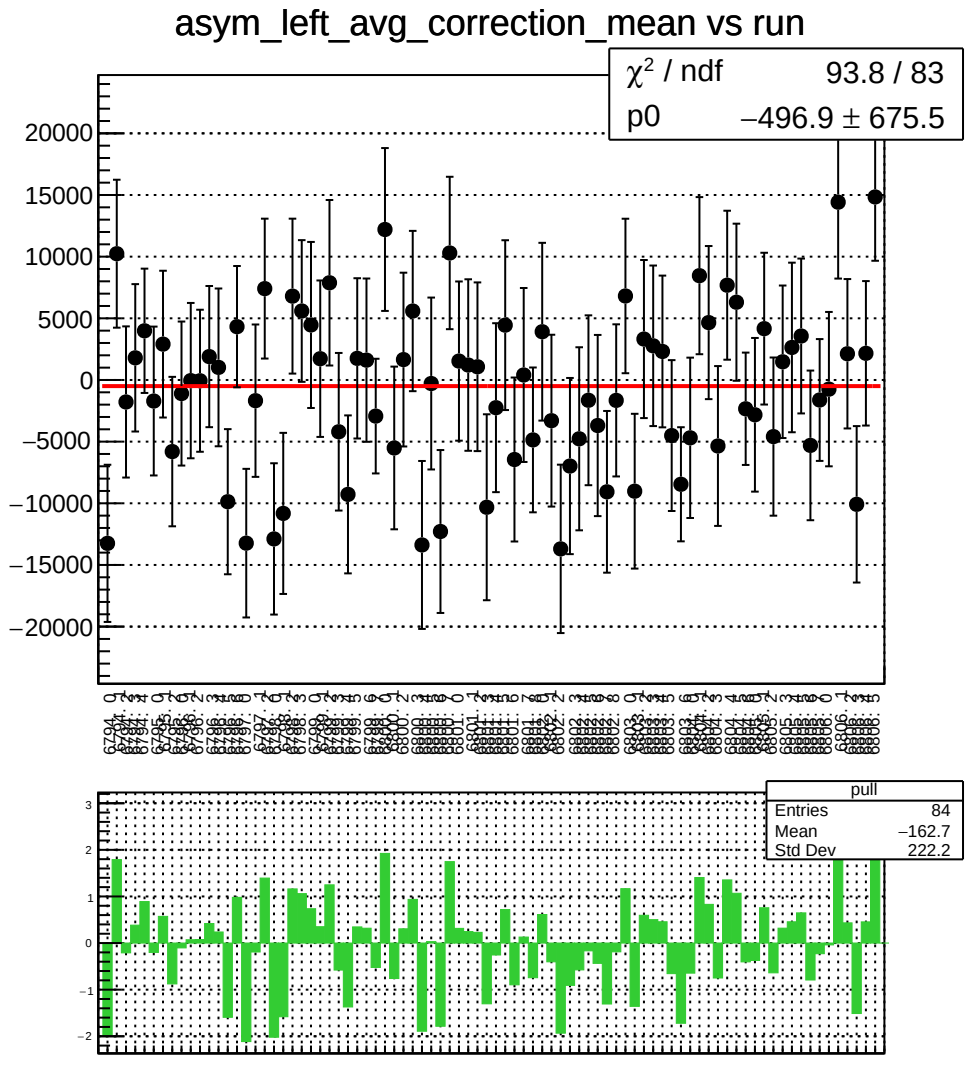

pull1D
Entries 84
Mean 0.005086
Std Dev 0.9784

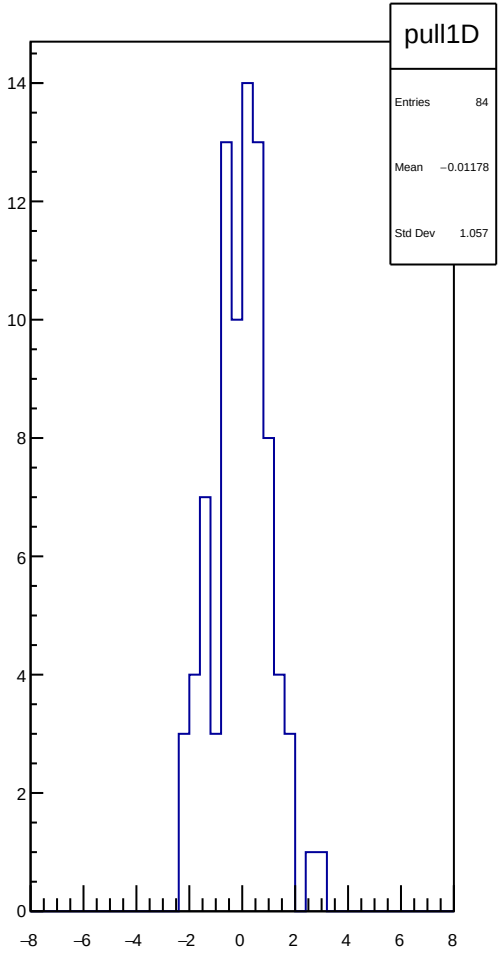

asym_dsr_rms vs run
χ^2 / ndf 472.9 / 83
p0 138.3 ± 0.1085
150
148
146
144
142
140
138
136
134
132

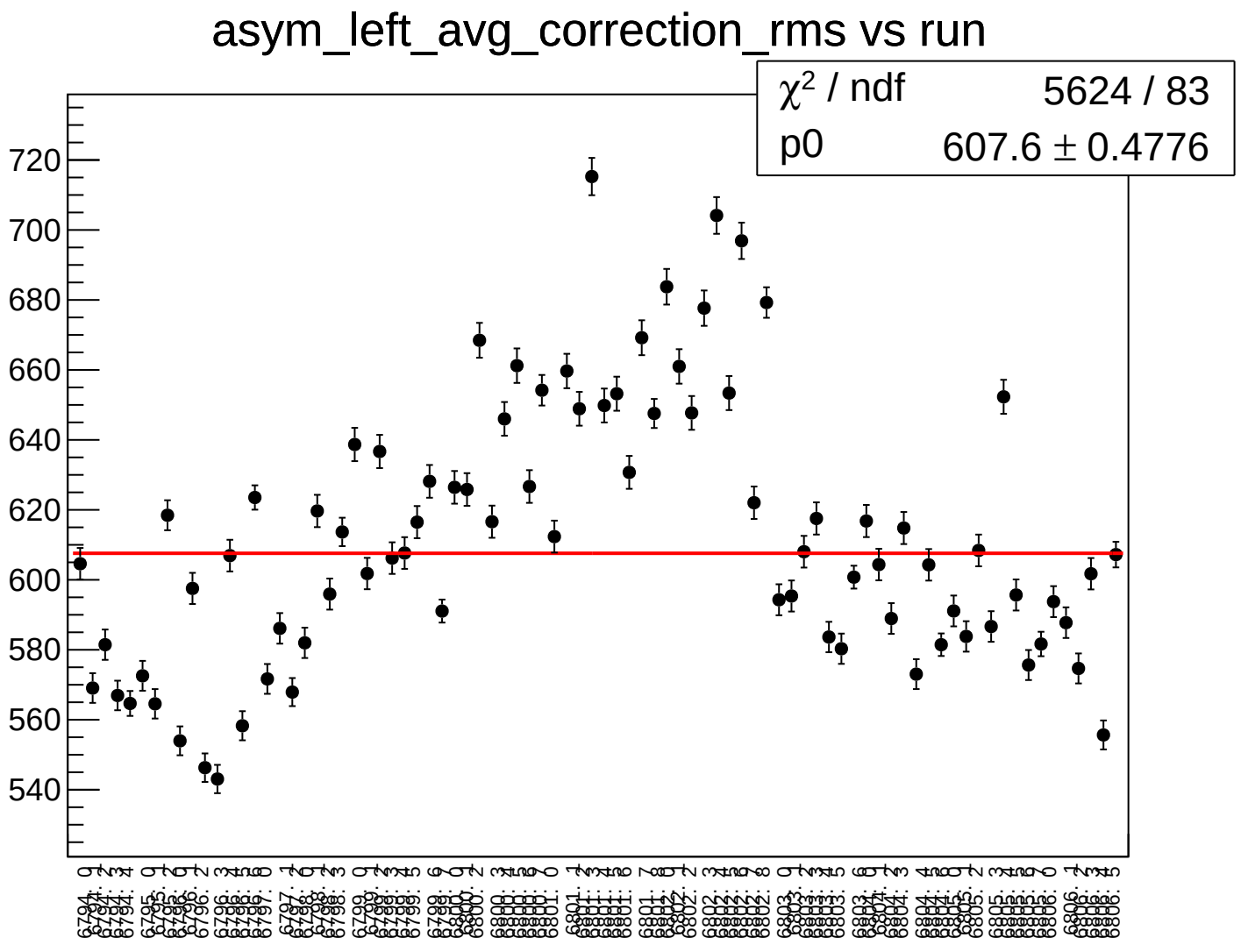

reg_asym_left_avg_mean vs run
χ² / ndf 76.69 / 83
p0 −17.14 ± 620.1
pull
Entries 84
Mean 20.17
Std Dev 86.88

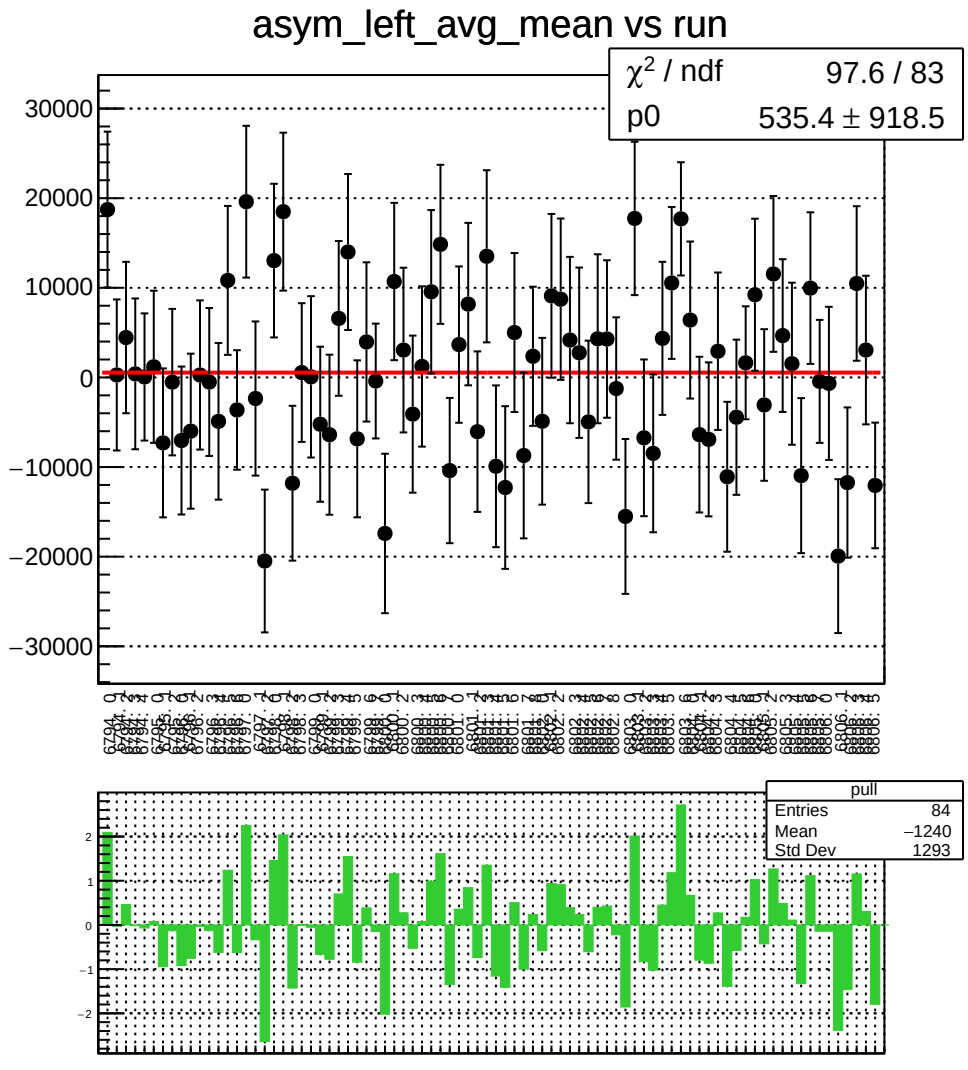

pull1D
Entries 84
Mean −0.00649
Std Dev 0.9555

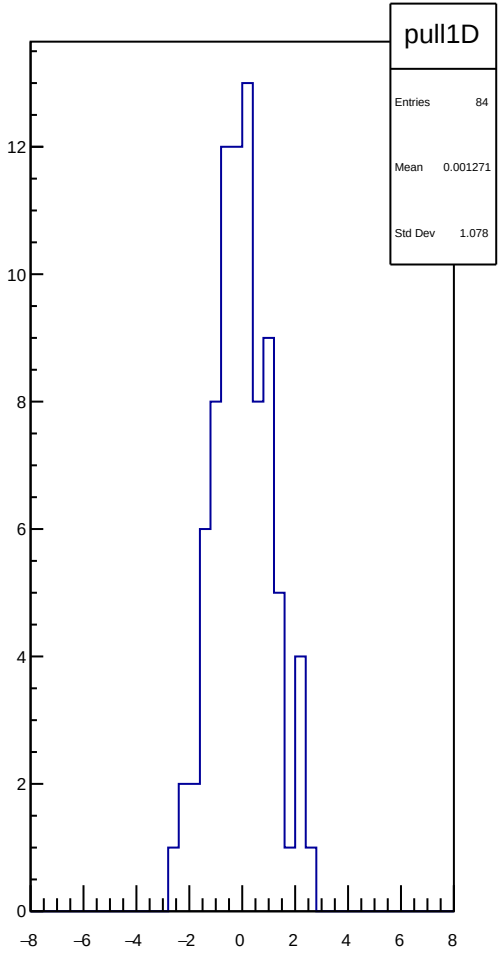

reg_asym_left_avg_rms vs run
χ² / ndf 148.6 / 83
p0 558.7 ± 0.4385
575
570
565
560
555
550
545
540

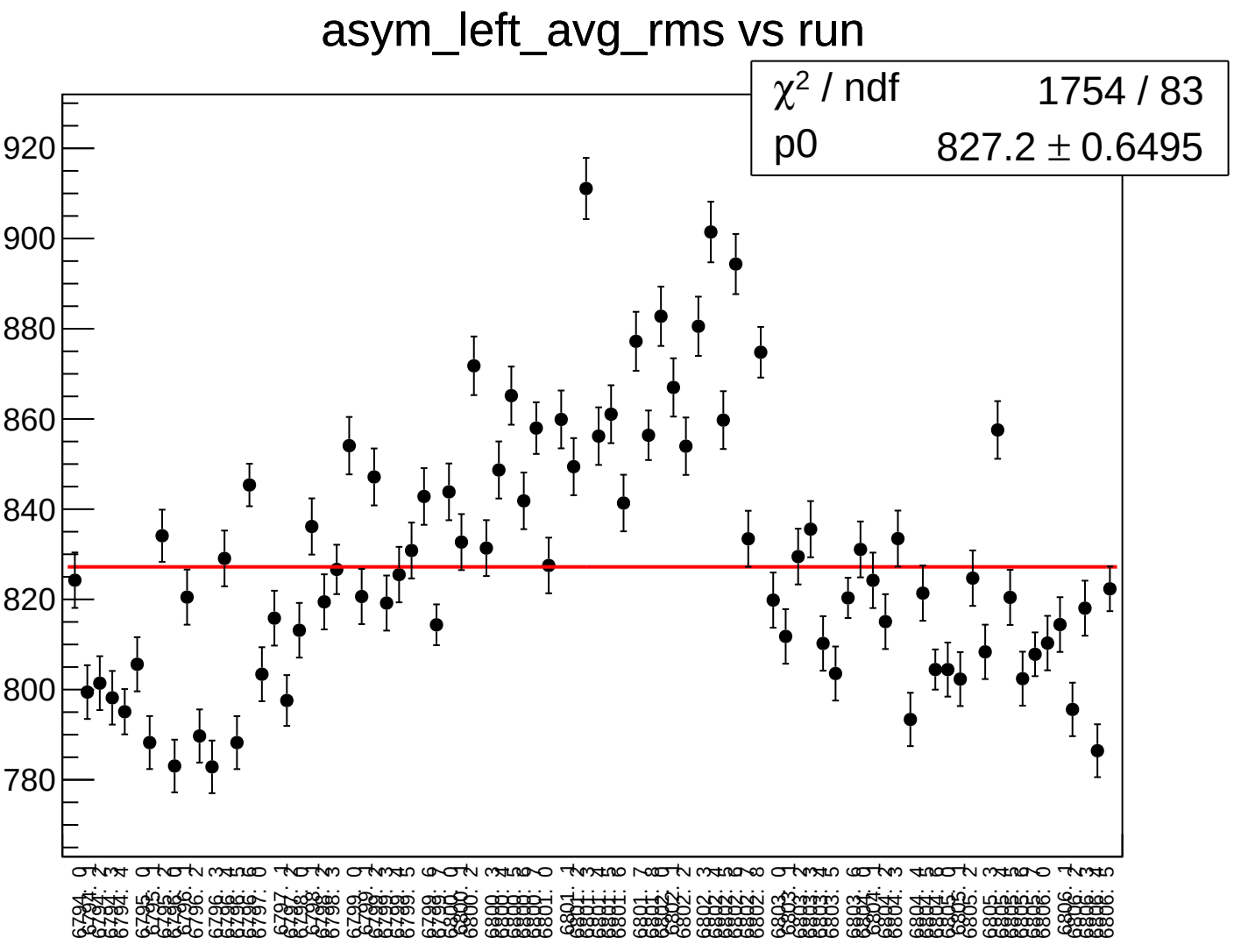

asym_left_avg_correction_mean vs run
χ² / ndf 93.8 / 83
p0 −496.9 ± 675.5
pull
Entries 84
Mean −162.7
Std Dev 222.2

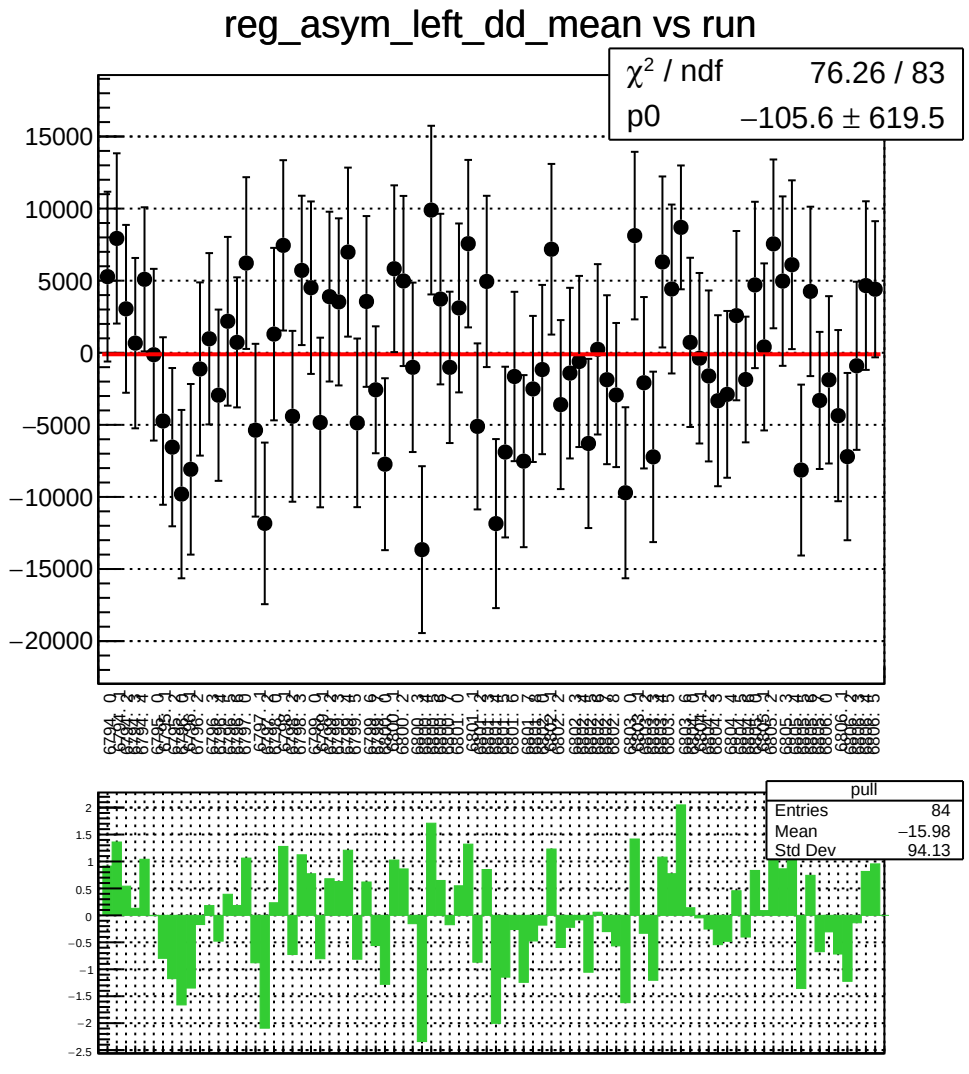

pull1D
Entries 84
Mean −0.01178
Std Dev 1.057

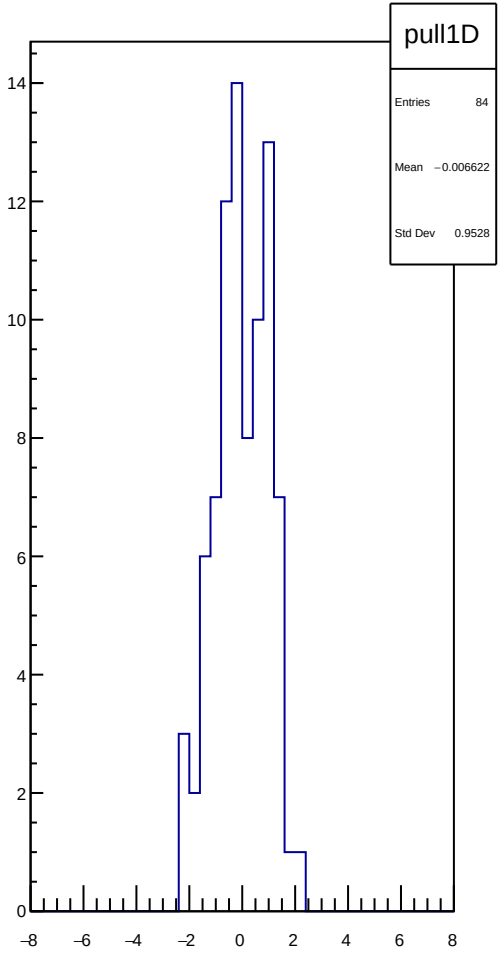

asym_left_avg_correction_rms vs run
χ² / ndf 5624 / 83
p0 607.6 ± 0.4776
720
700
680
660
640
620
600
580
560
540

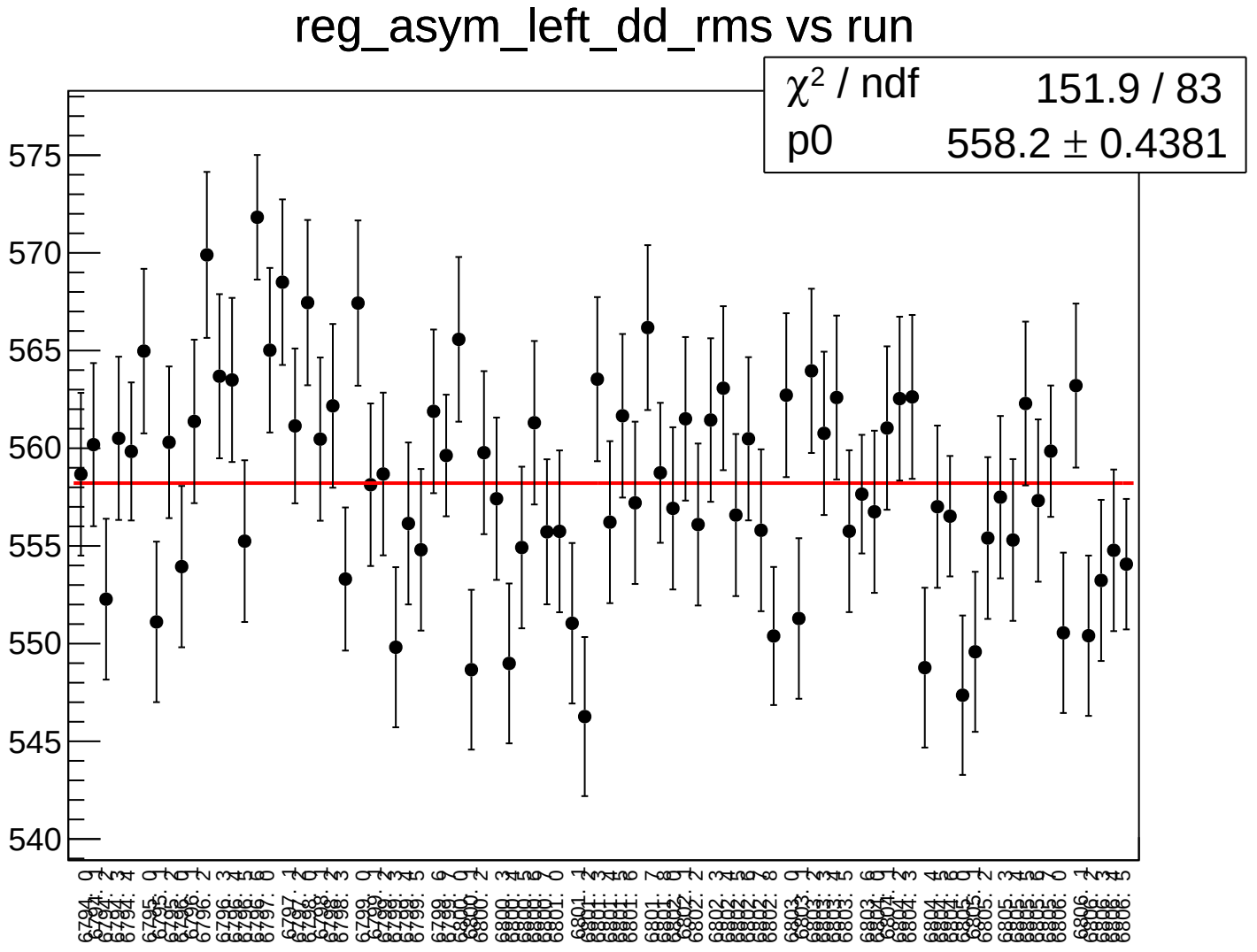

asym_left_avg_mean vs run
χ² / ndf 97.6 / 83
p0 535.4 ± 918.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −1240
Std Dev 1293
2
1
0
−1
−2

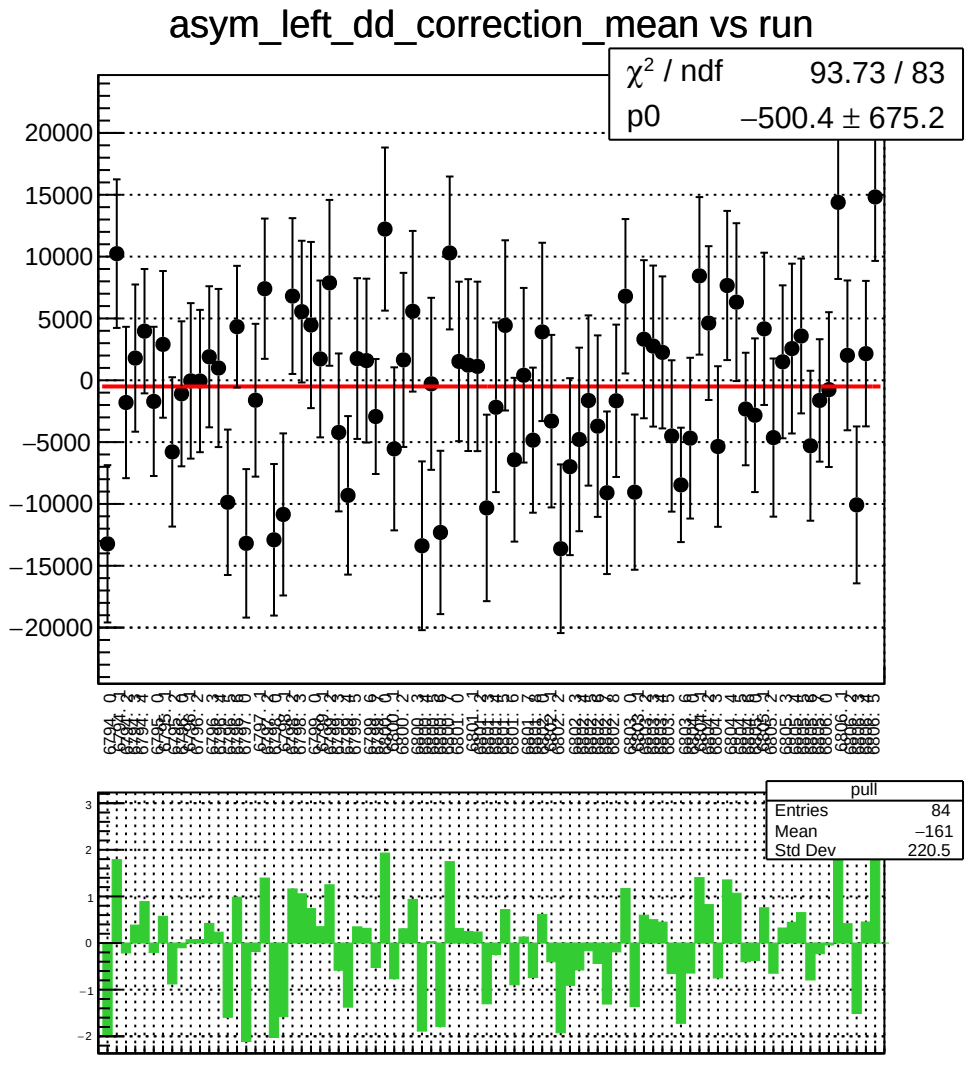

pull1D
Entries 84
Mean 0.001271
Std Dev 1.078
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

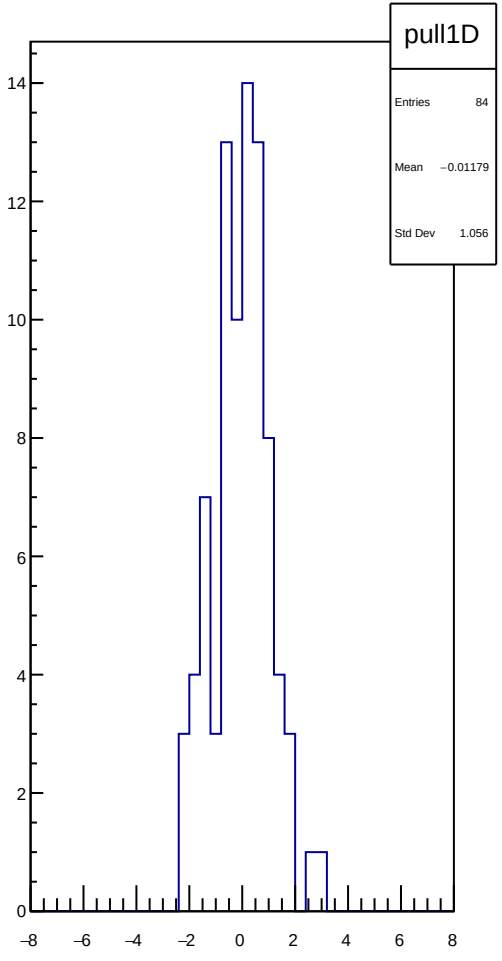

asym_left_avg_rms vs run
χ^2 / ndf 1754 / 83
p0 827.2 ± 0.6495
920
900
880
860
840
820
800
780

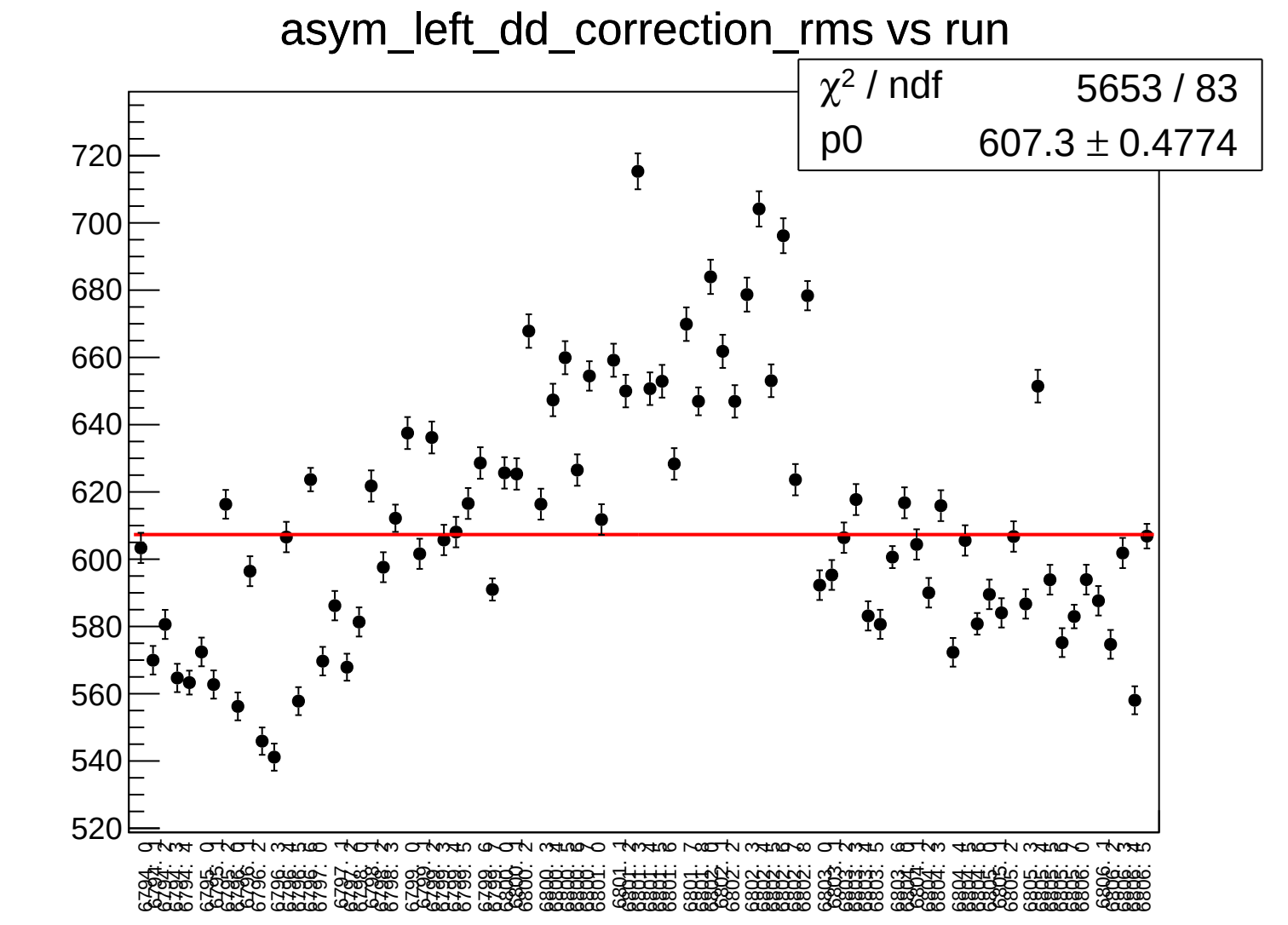

reg_asym_left_dd_mean vs run
χ² / ndf 76.26 / 83
p0 −105.6 ± 619.5
pull
Entries 84
Mean −15.98
Std Dev 94.13

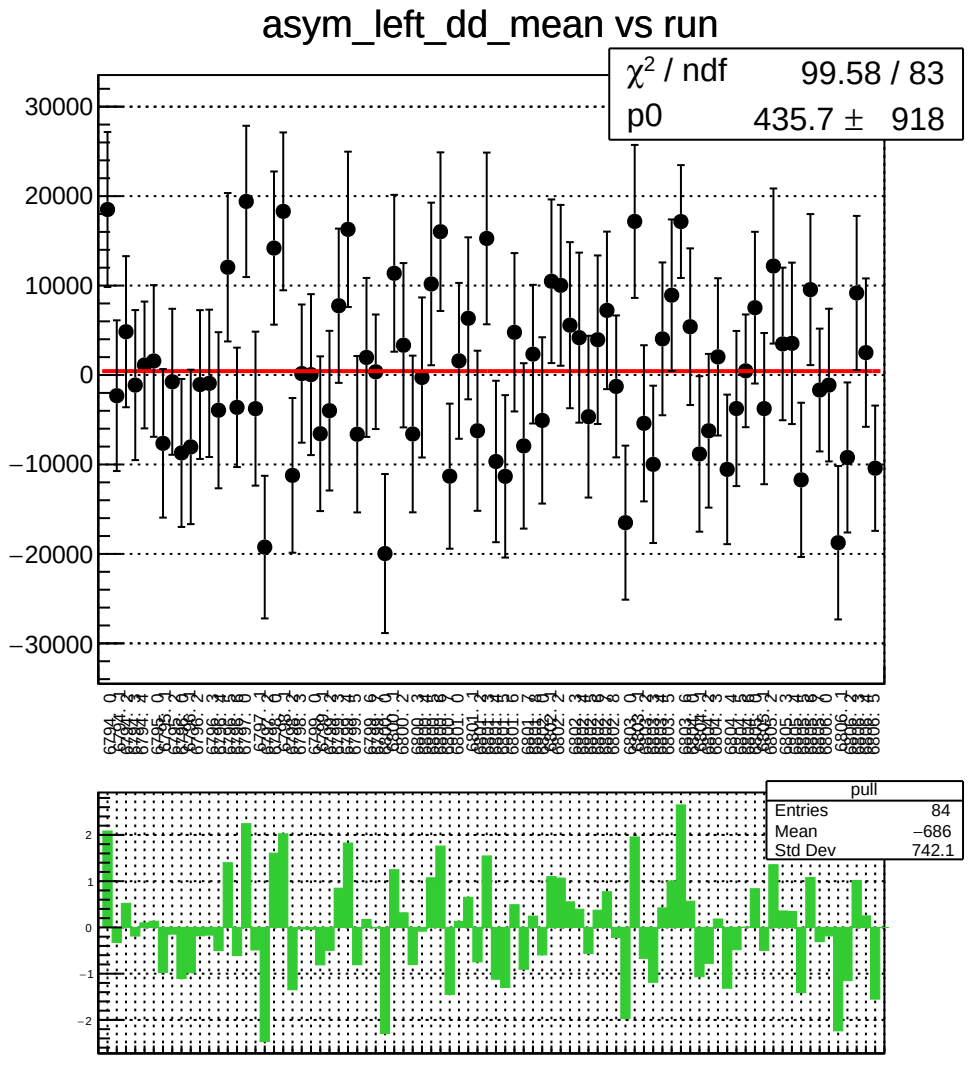

pull1D
Entries 84
Mean −0.006622
Std Dev 0.9528

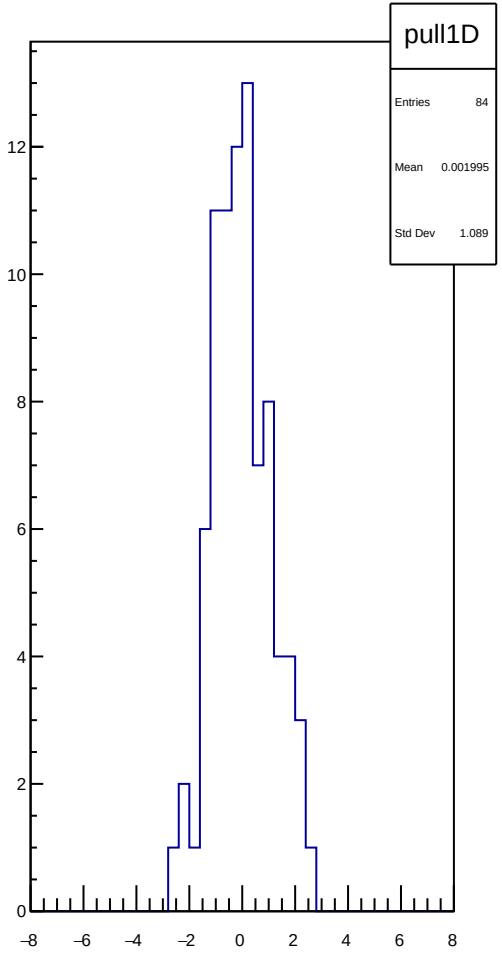

reg_asym_left_dd_rms vs run
χ² / ndf 151.9 / 83
p0 558.2 ± 0.4381
575
570
565
560
555
550
545
540

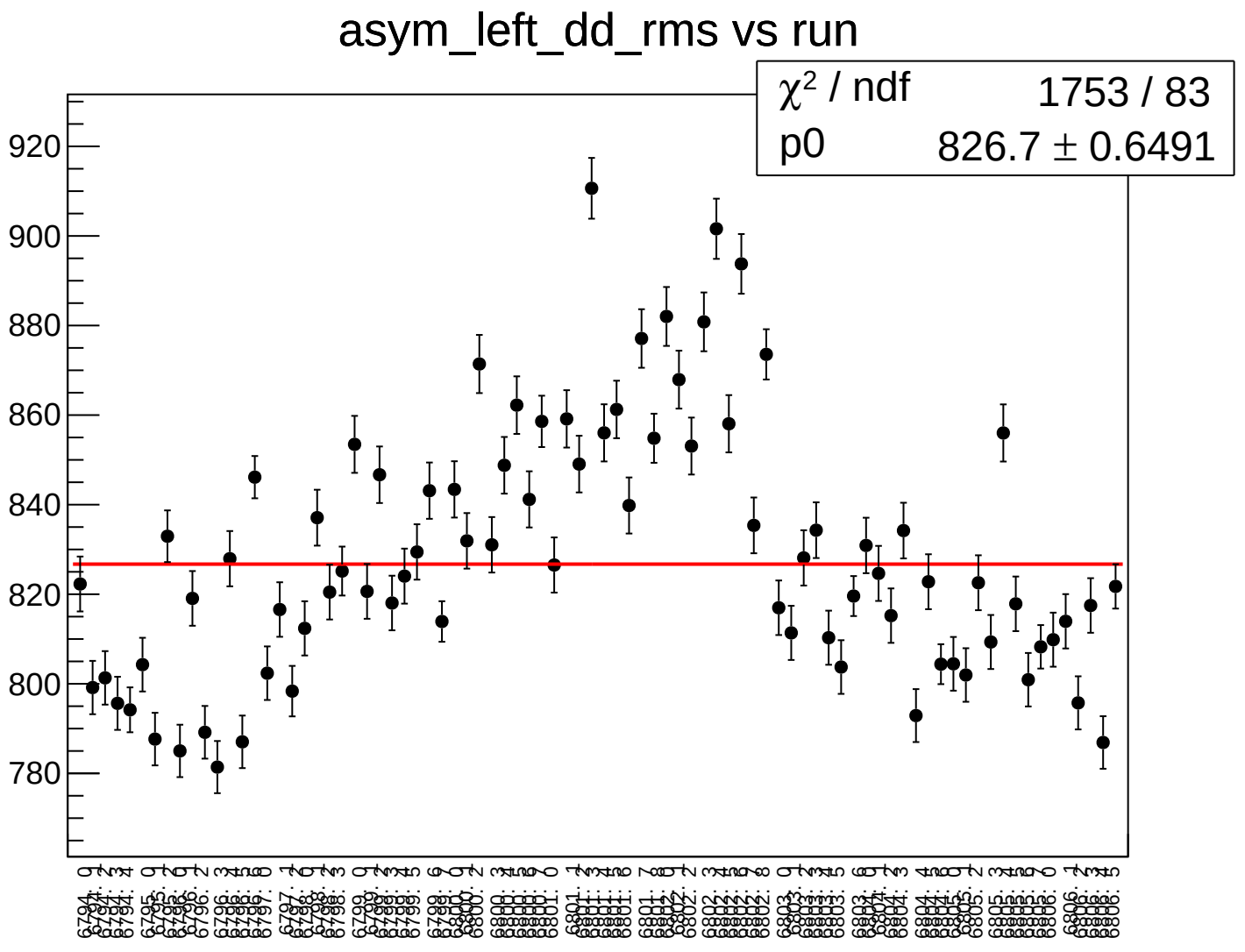

asym_left_dd_correction_mean vs run
χ² / ndf 93.73 / 83
p0 −500.4 ± 675.2
pull
Entries 84
Mean −161
Std Dev 220.5

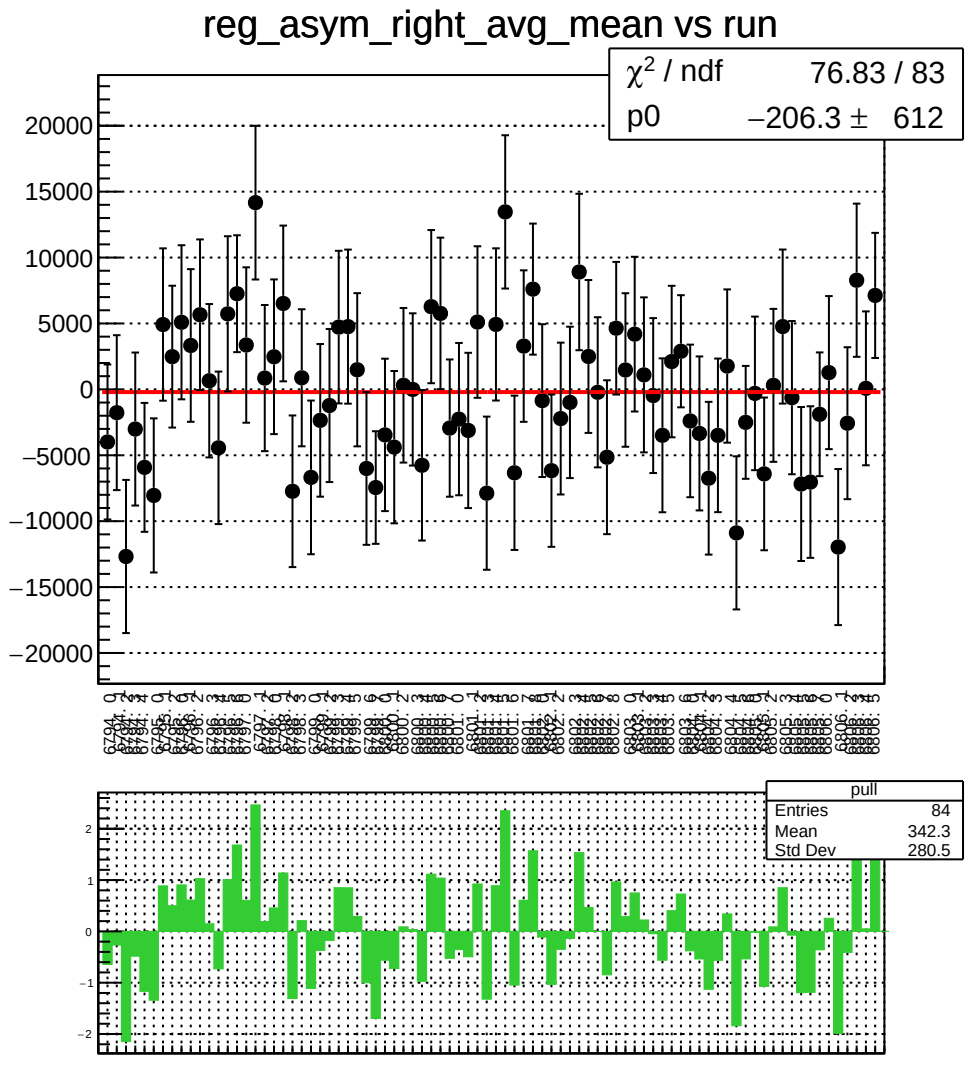

pull1D
Entries 84
Mean −0.01179
Std Dev 1.056

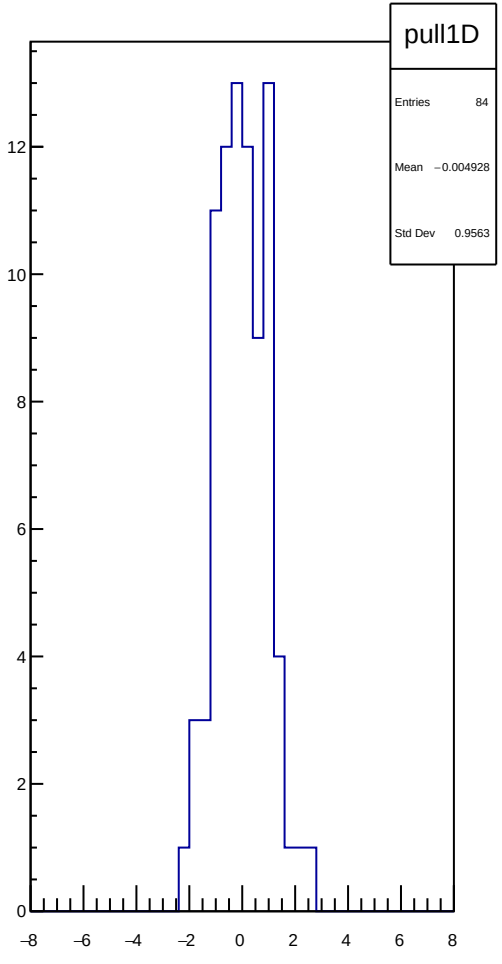

asym_left_dd_correction_rms vs run
χ² / ndf 5653 / 83
p0 607.3 ± 0.4774
720
700
680
660
640
620
600
580
560
540
520

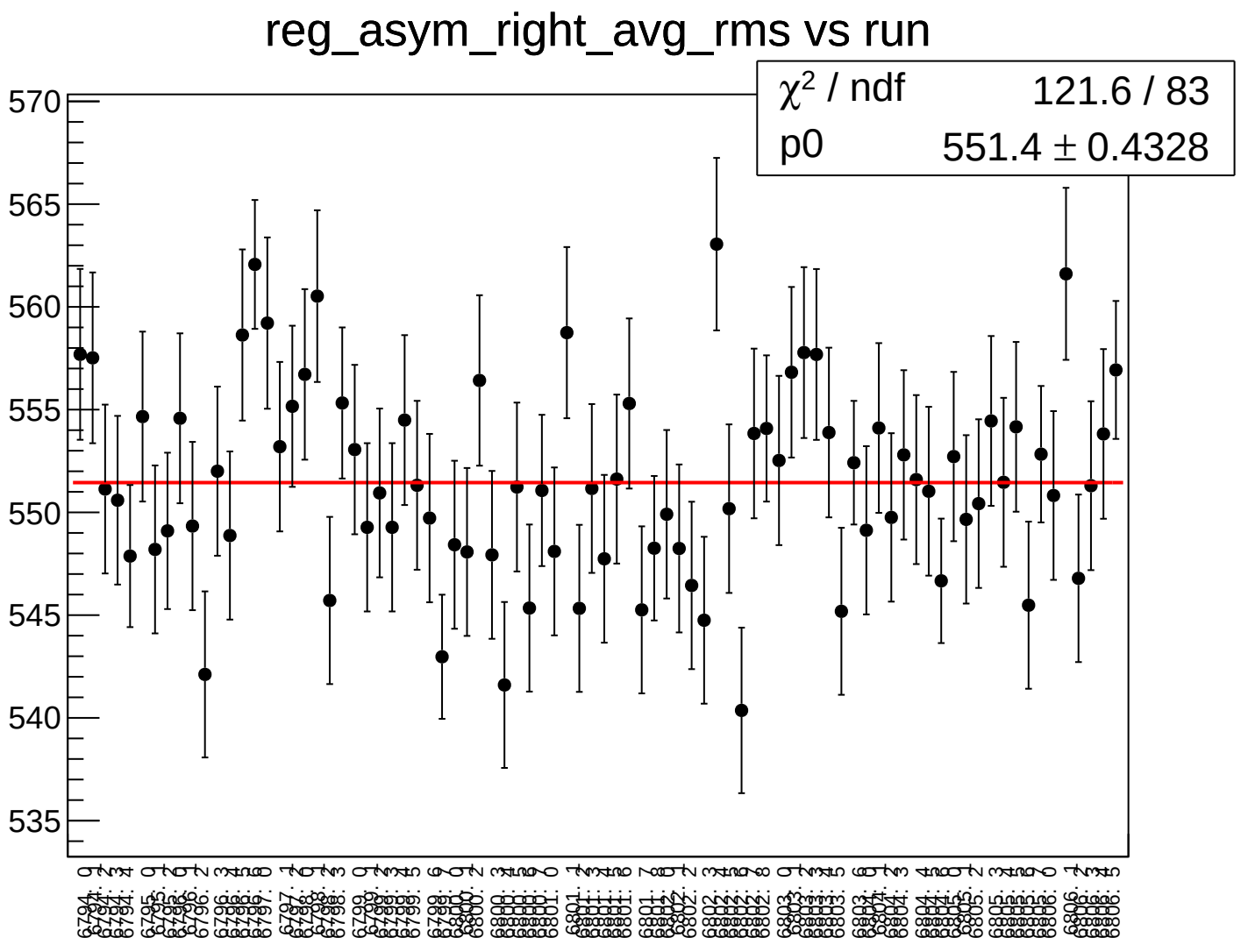

asym_left_dd_mean vs run
χ² / ndf 99.58 / 83
p0 435.7 ± 918
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −686
Std Dev 742.1
2
1
0
−1
−2

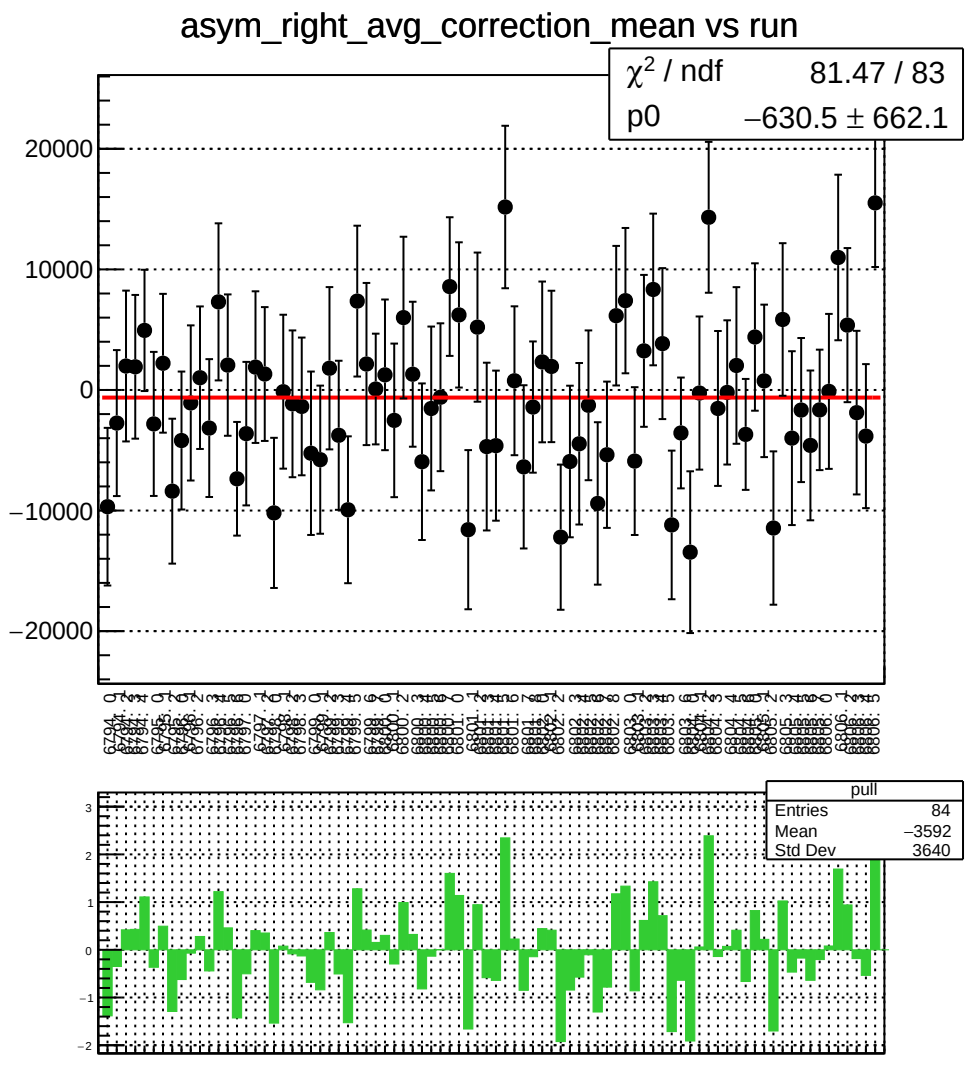

pull1D
Entries 84
Mean 0.001995
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

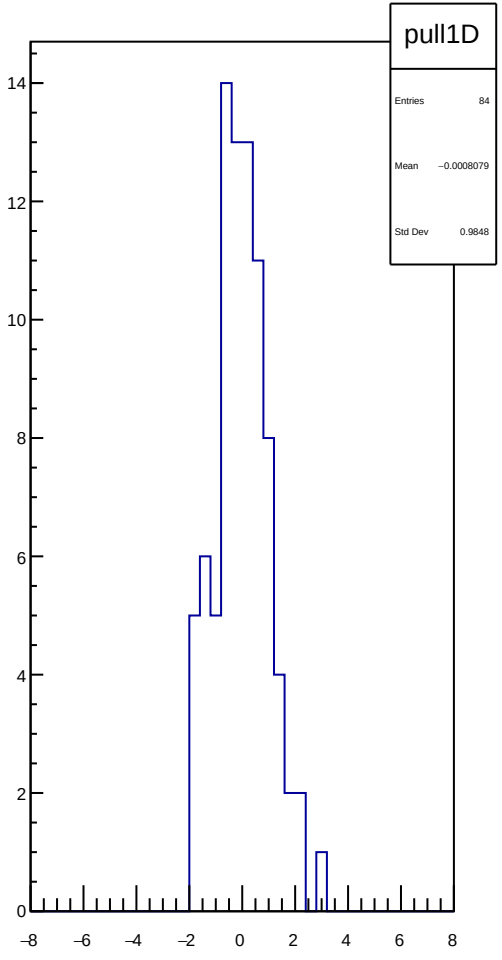

asym_left_dd_rms vs run
χ² / ndf 1753 / 83
p0 826.7 ± 0.6491
920
900
880
860
840
820
800
780

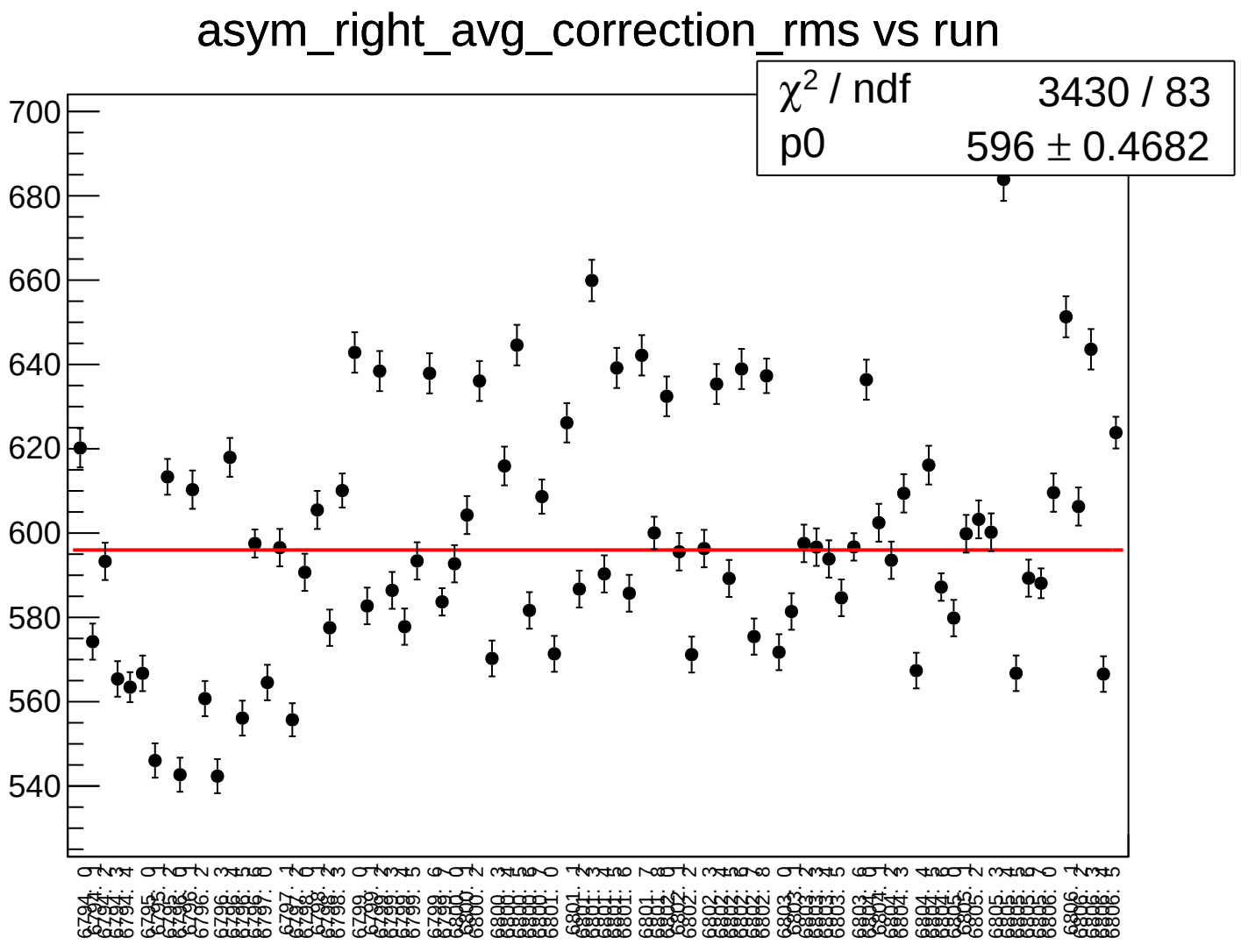

reg_asym_right_avg_mean vs run
χ² / ndf 76.83 / 83
p0 −206.3 ± 612
pull
Entries 84
Mean 342.3
Std Dev 280.5

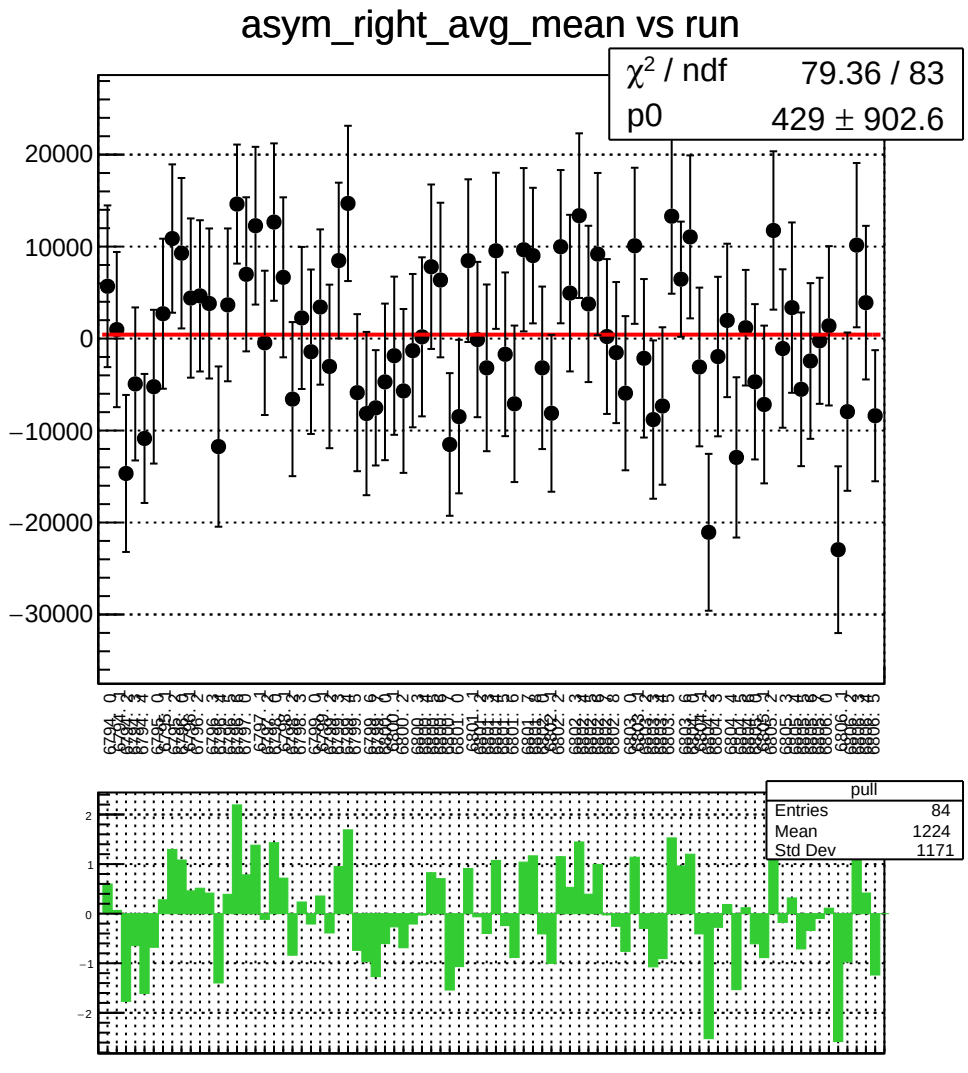

pull1D
Entries 84
Mean −0.004928
Std Dev 0.9563

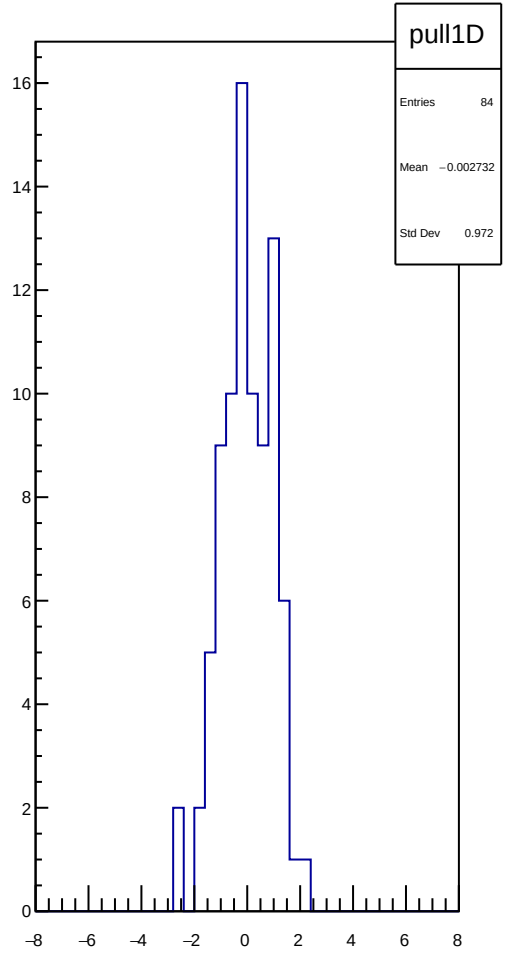

reg_asym_right_avg_rms vs run
χ^2 / ndf 121.6 / 83
p0 551.4 ± 0.4328
570
565
560
555
550
545
540
535

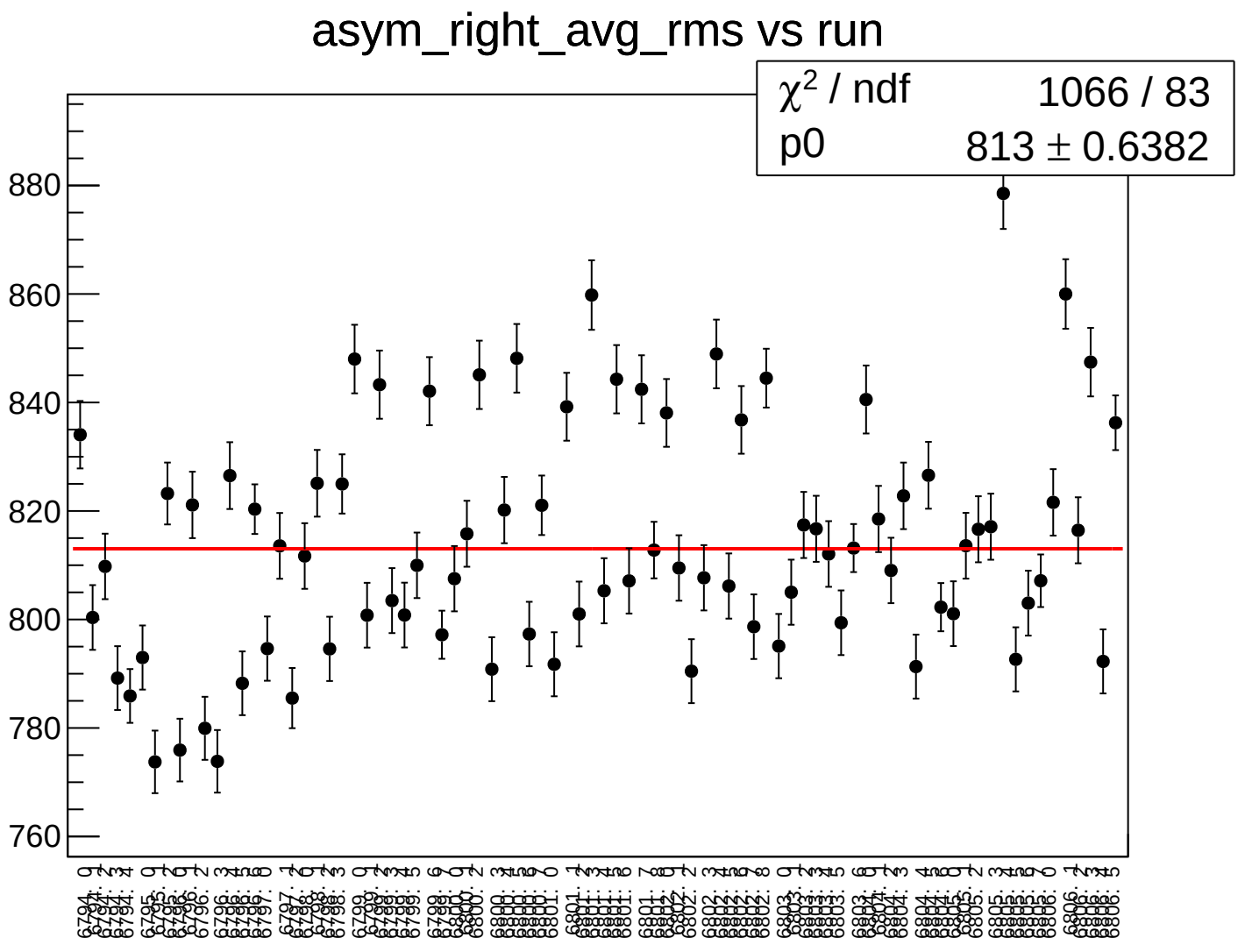

asym_right_avg_correction_mean vs run
χ² / ndf 81.47 / 83
p0 −630.5 ± 662.1
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −3592
Std Dev 3640
3
2
1
0
−1
−2

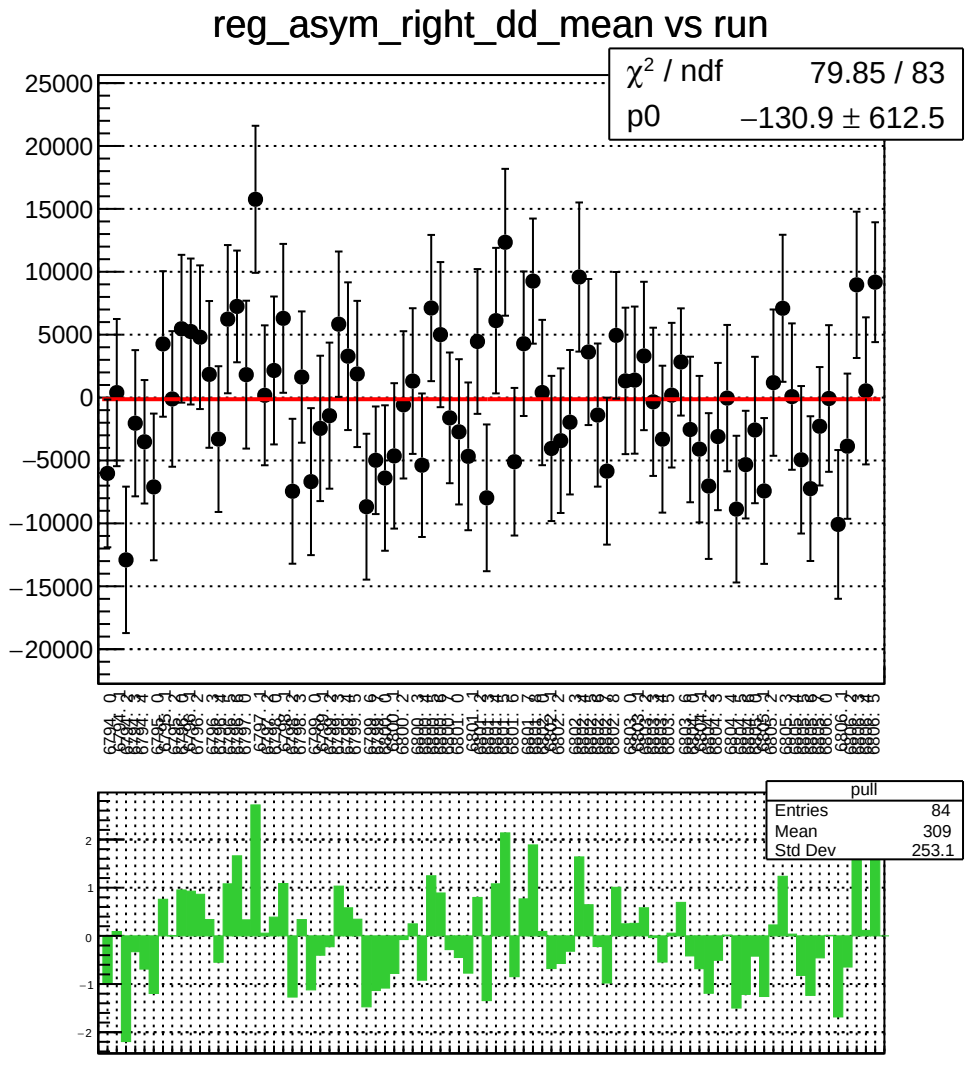

pull1D
Entries 84
Mean −0.0008079
Std Dev 0.9848
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

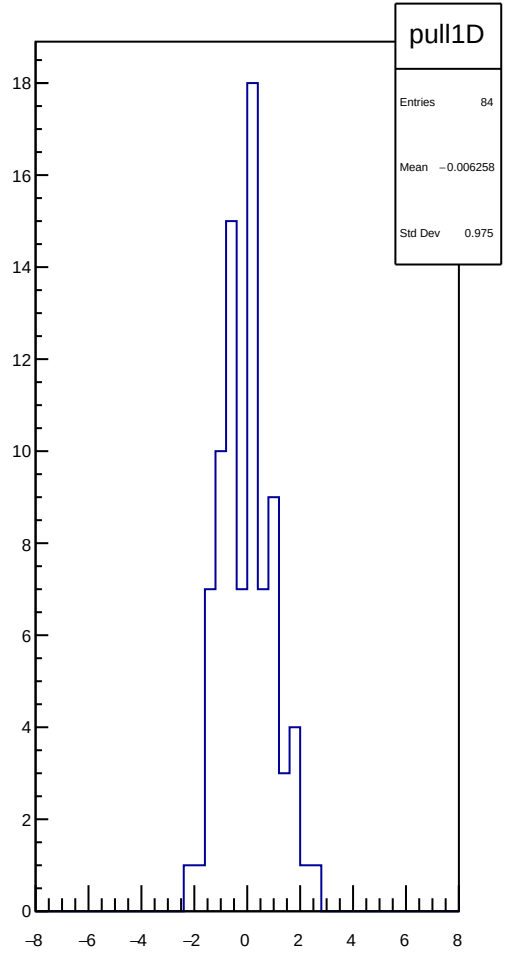

asym_right_avg_correction_rms vs run
χ² / ndf 3430 / 83
p0 596 ± 0.4682
700
680
660
640
620
600
580
560
540

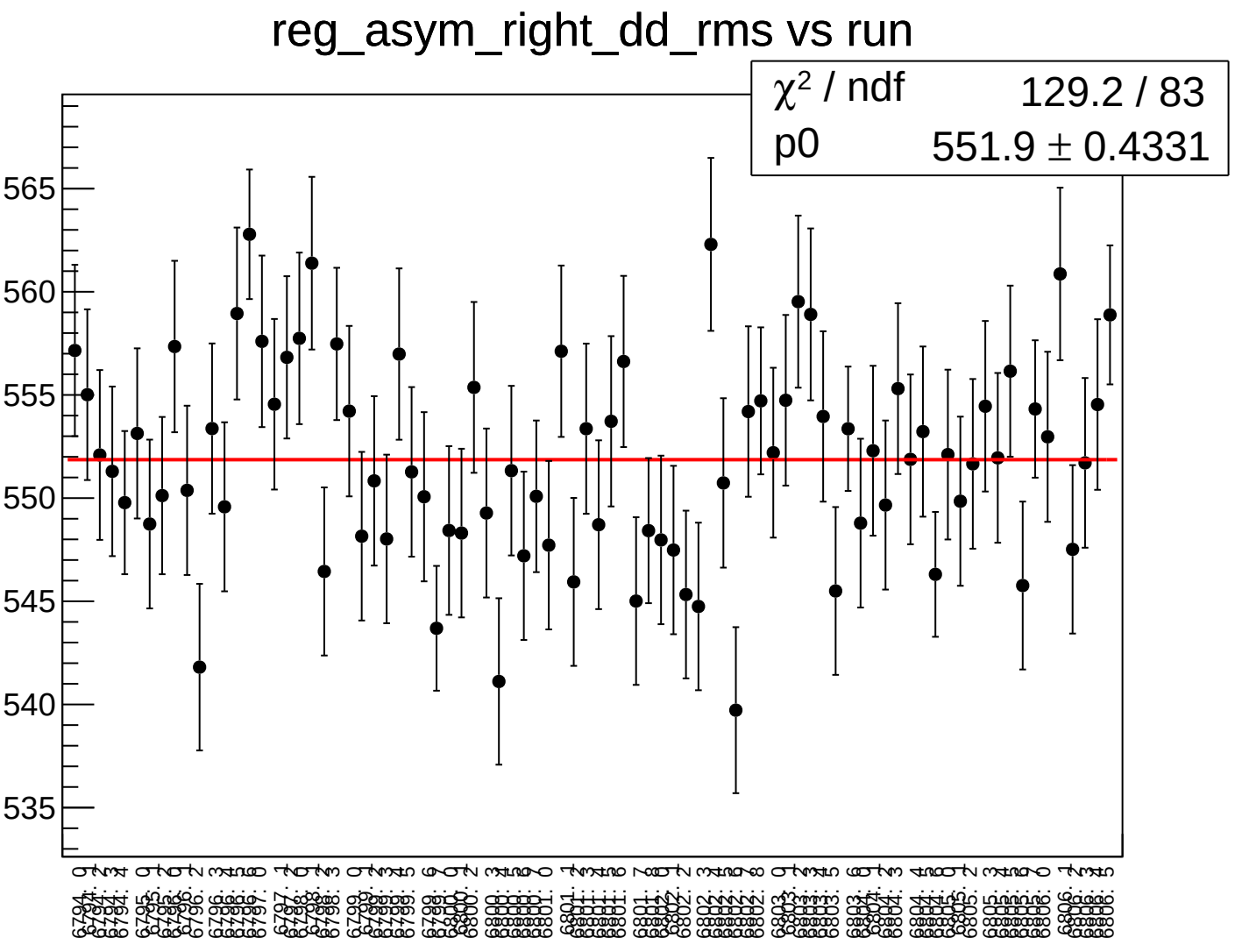

asym_right_avg_mean vs run
χ² / ndf 79.36 / 83
p0 429 ± 902.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 1224
Std Dev 1171
2
1
0
−1
−2

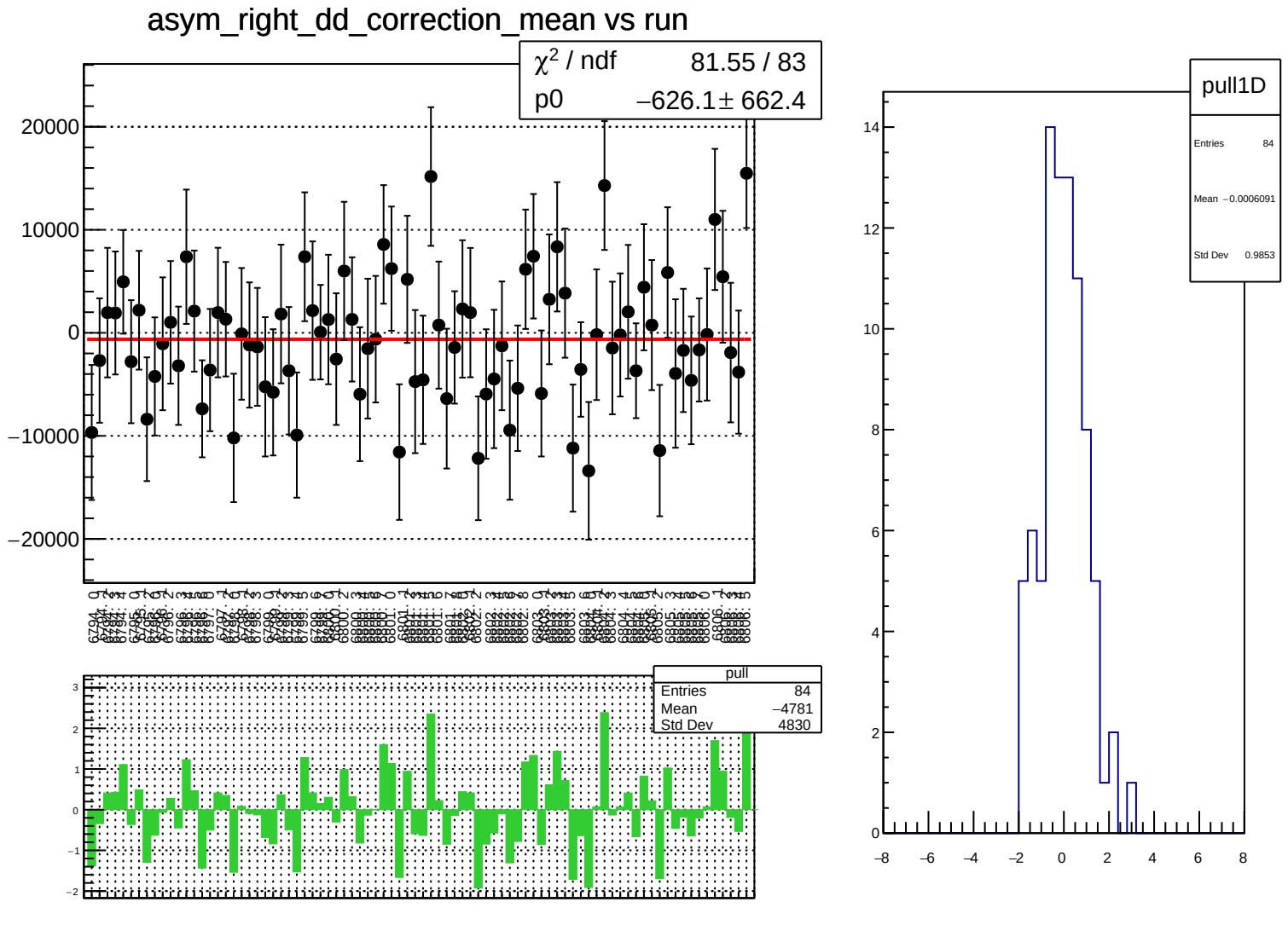

pull1D
Entries 84
Mean −0.002732
Std Dev 0.972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

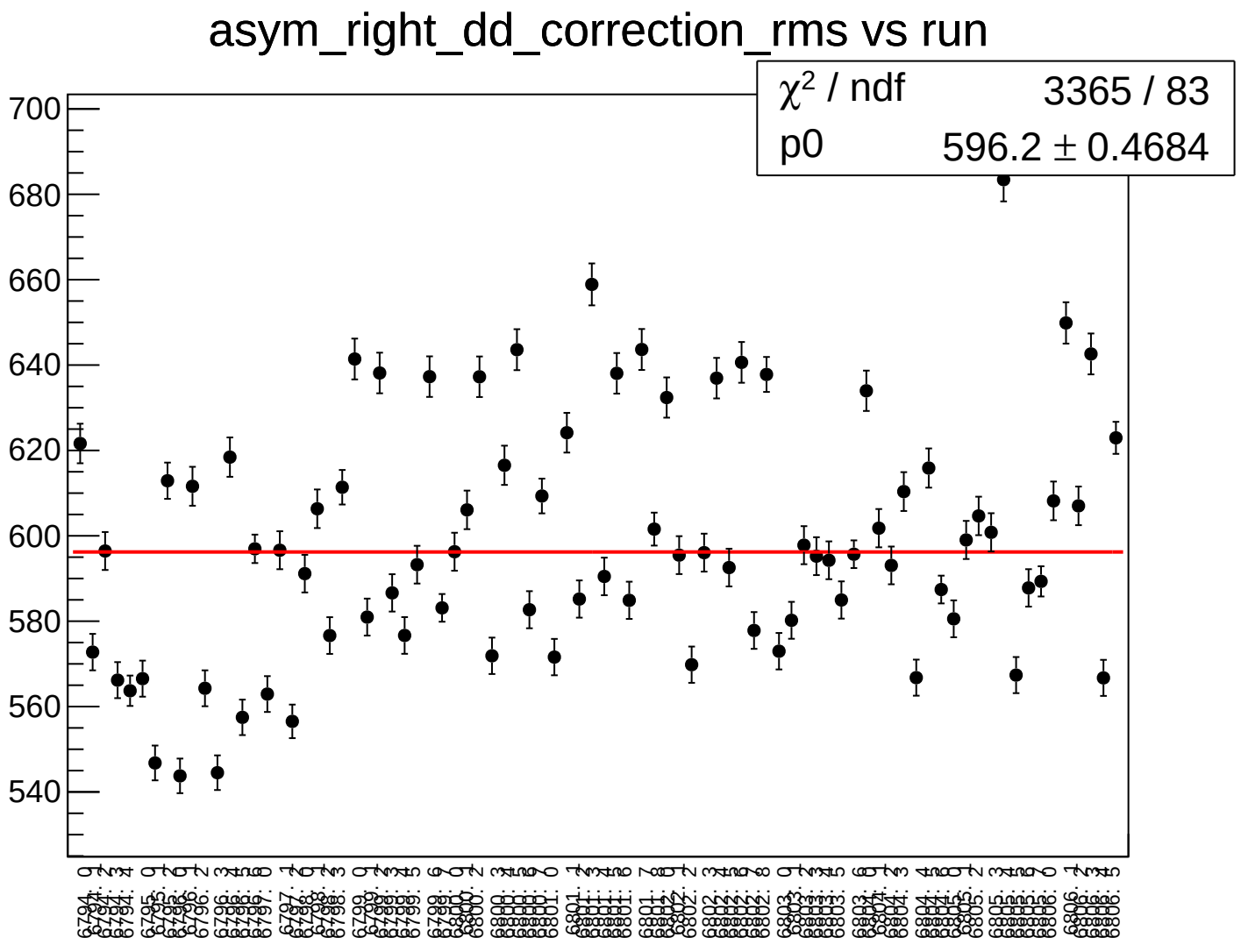

asym_right_avg_rms vs run
χ^2 / ndf 1066 / 83
p0 813 ± 0.6382
880
860
840
820
800
780
760

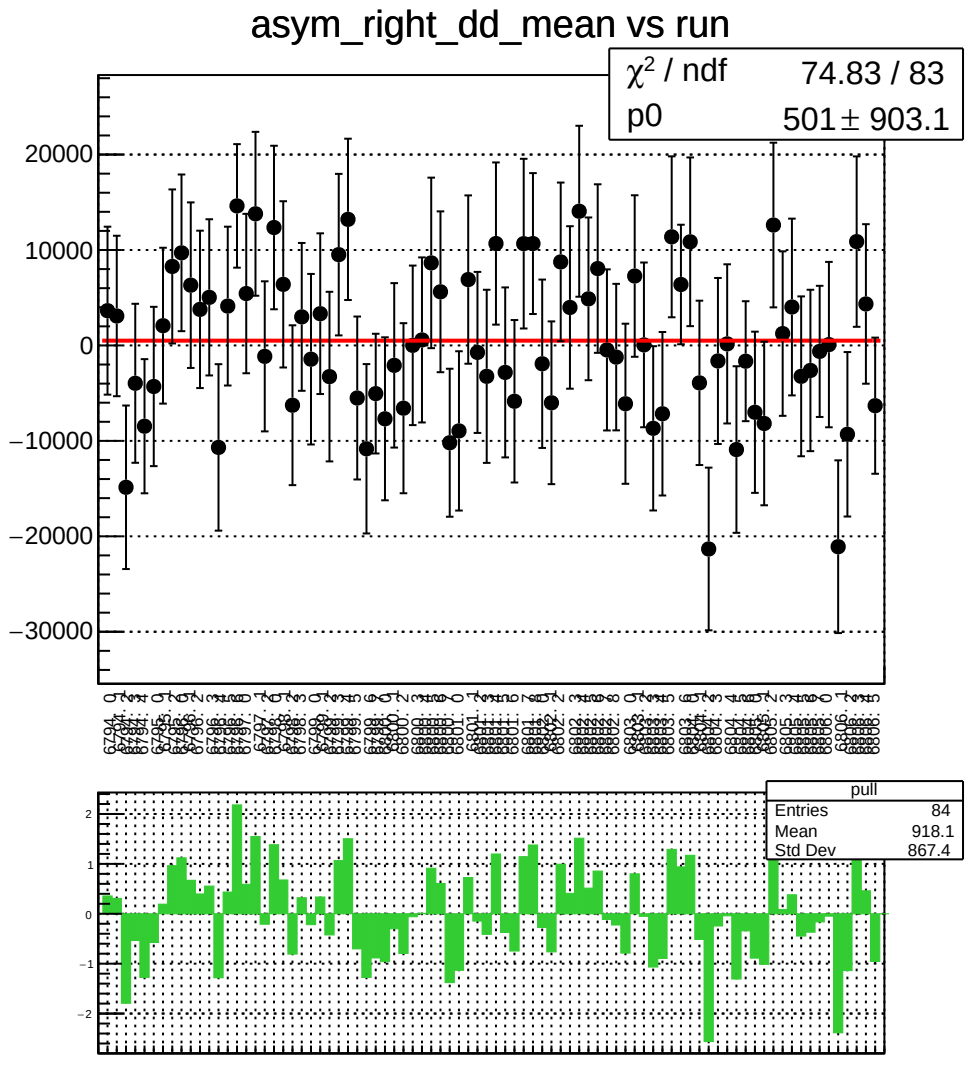

reg_asym_right_dd_mean vs run
χ² / ndf 79.85 / 83
p0 −130.9 ± 612.5
pull
Entries 84
Mean 309
Std Dev 253.1

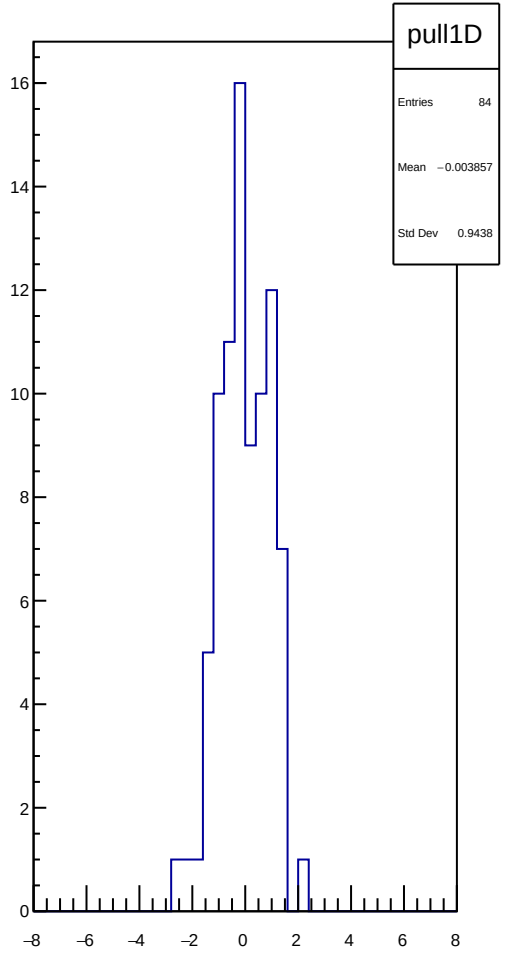

pull1D
Entries 84
Mean −0.006258
Std Dev 0.975

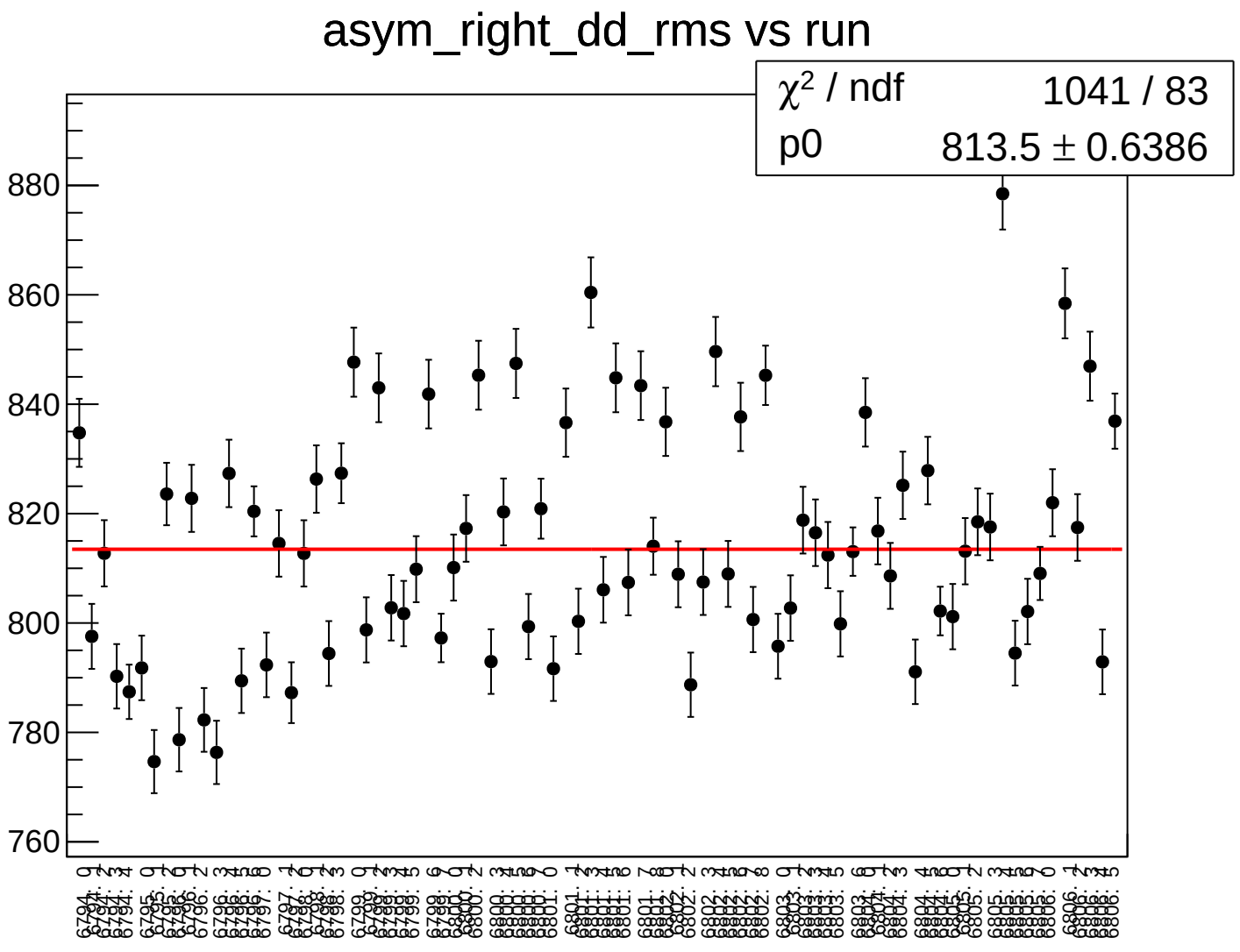

reg_asym_right_dd_rms vs run
χ² / ndf 129.2 / 83
p0 551.9 ± 0.4331
565
560
555
550
545
540
535

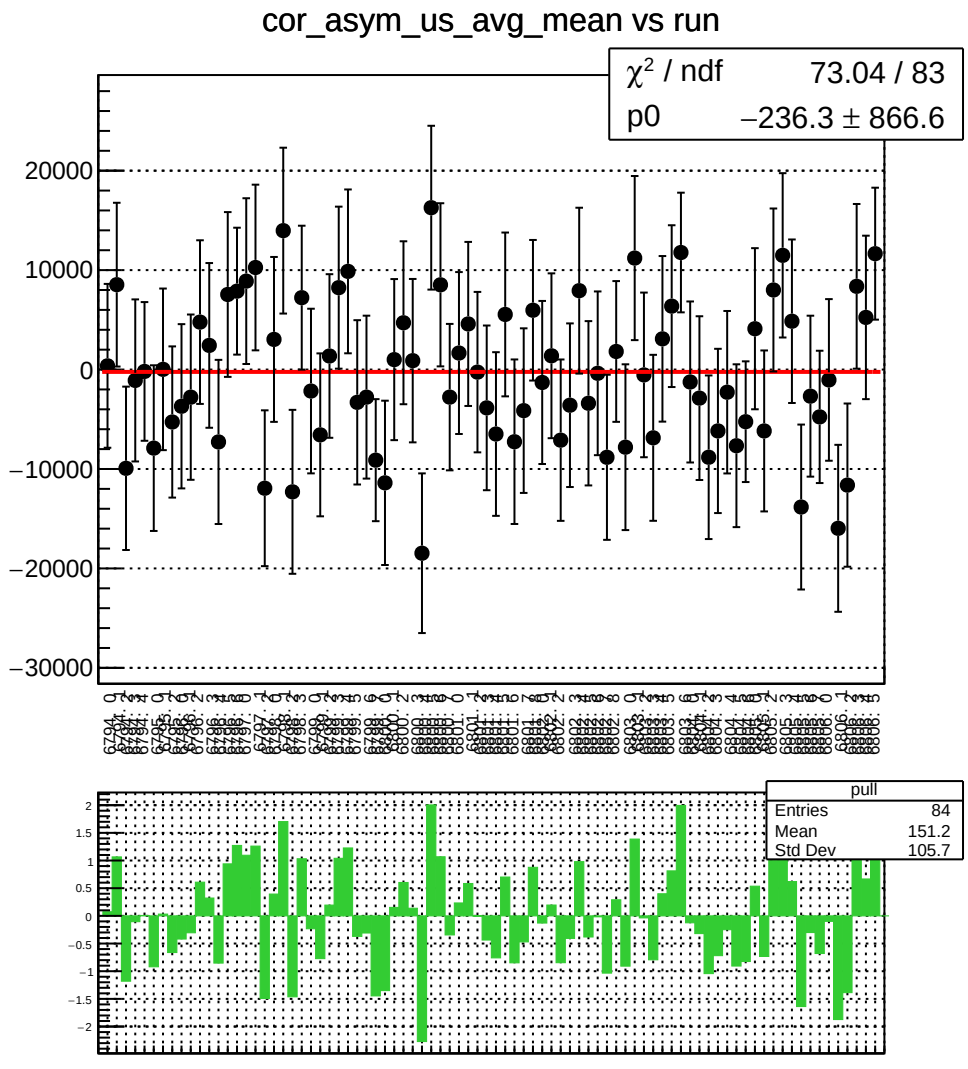

asym_right_dd_correction_mean vs run
χ² / ndf 81.55 / 83
p0 −626.1 ± 662.4
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −4781
Std Dev 4830
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.0006091
Std Dev 0.9853
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

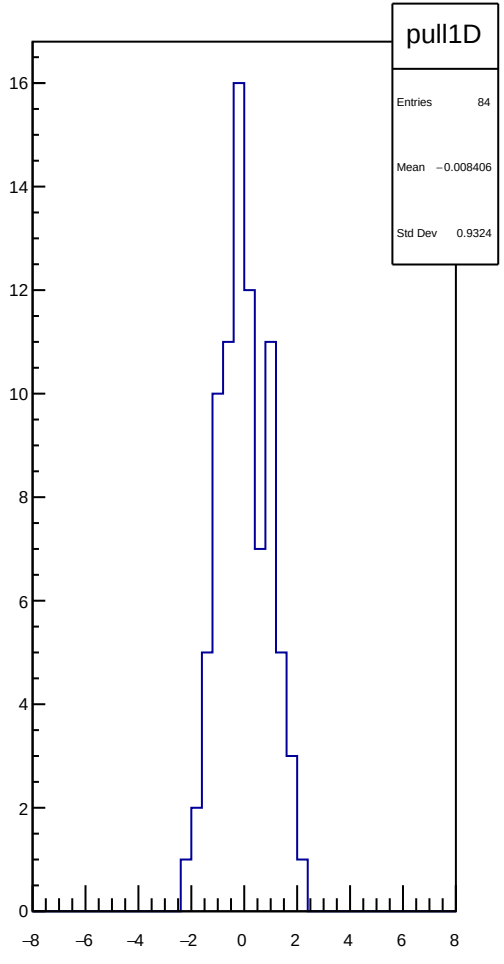

asym_right_dd_correction_rms vs run
χ² / ndf 3365 / 83
p0 596.2 ± 0.4684
700
680
660
640
620
600
580
560
540

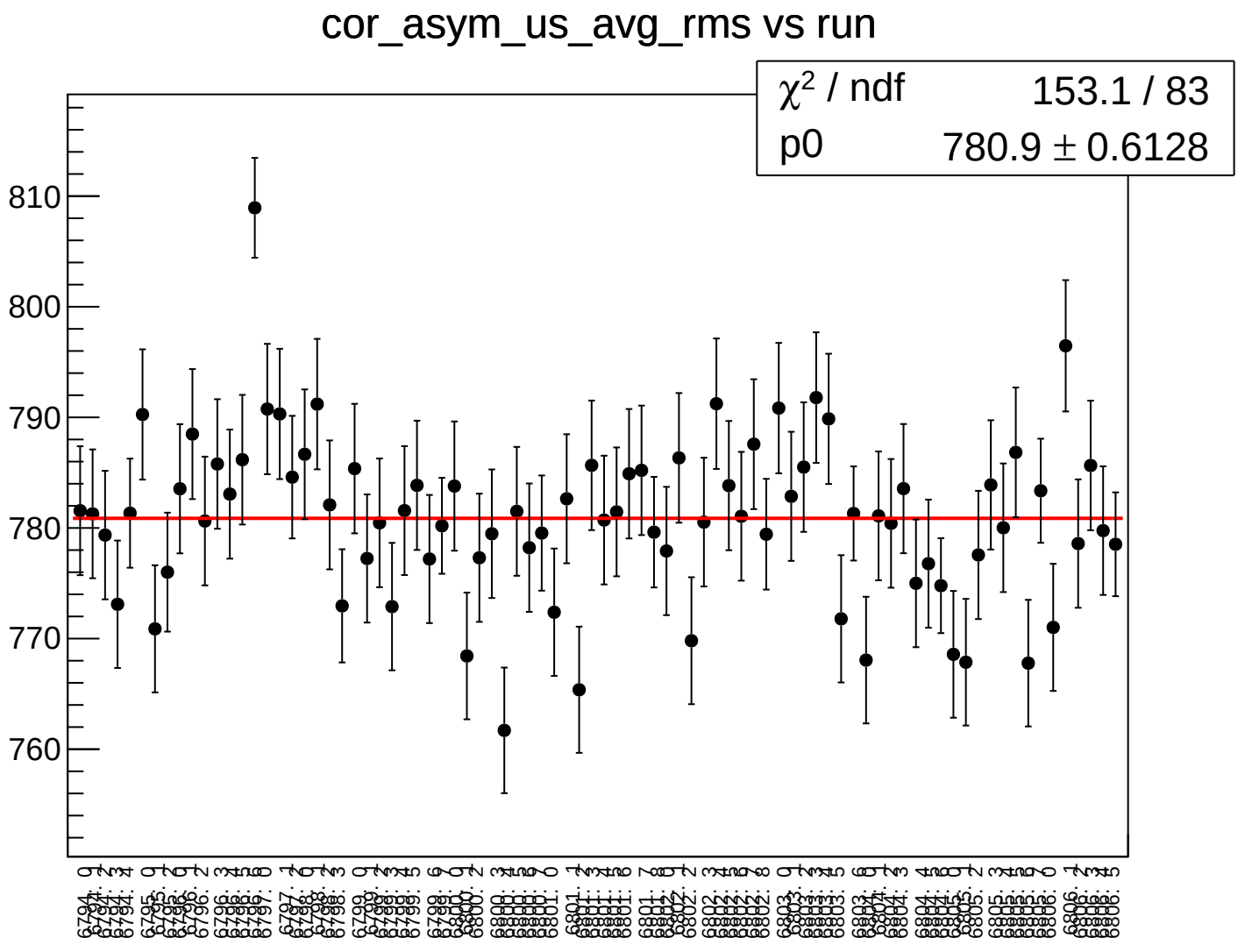

asym_right_dd_mean vs run
χ² / ndf 74.83 / 83
p0 501 ± 903.1
pull
Entries 84
Mean 918.1
Std Dev 867.4

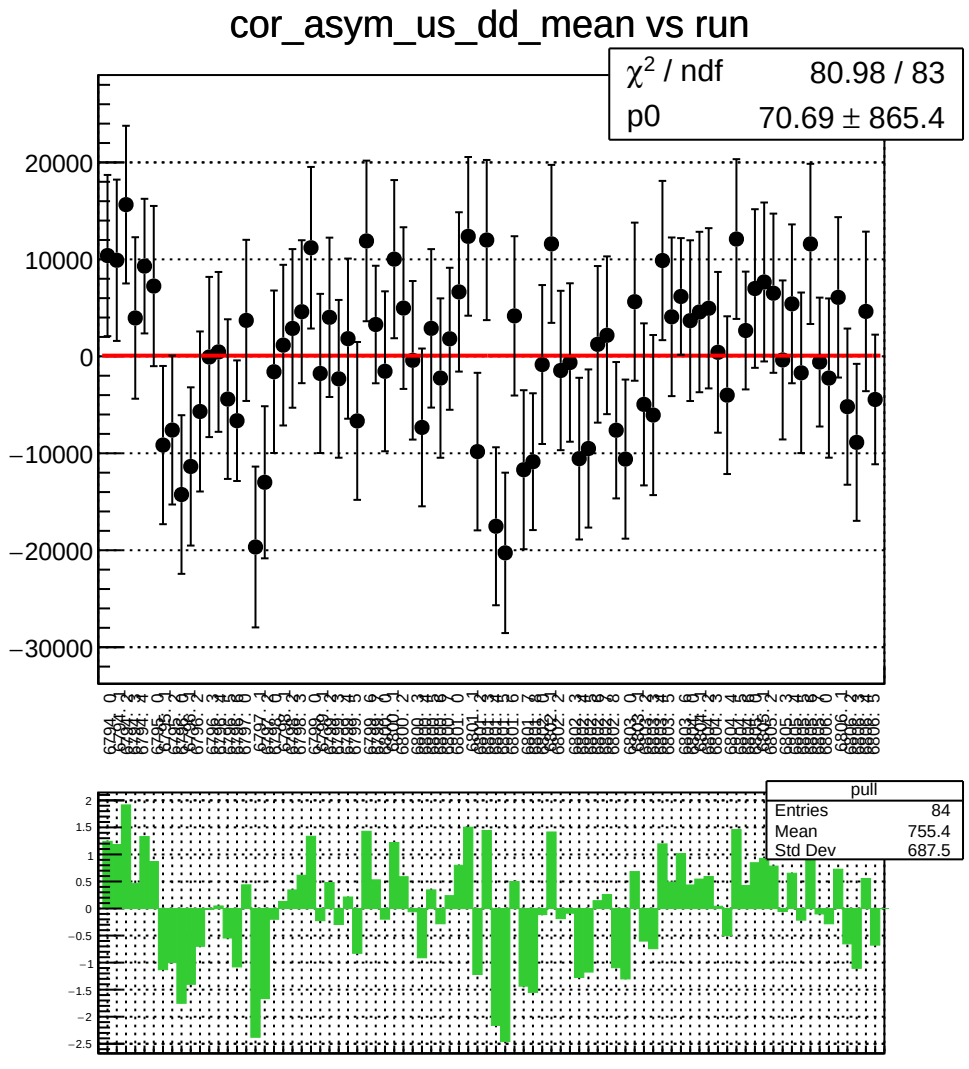

pull1D
Entries 84
Mean −0.003857
Std Dev 0.9438

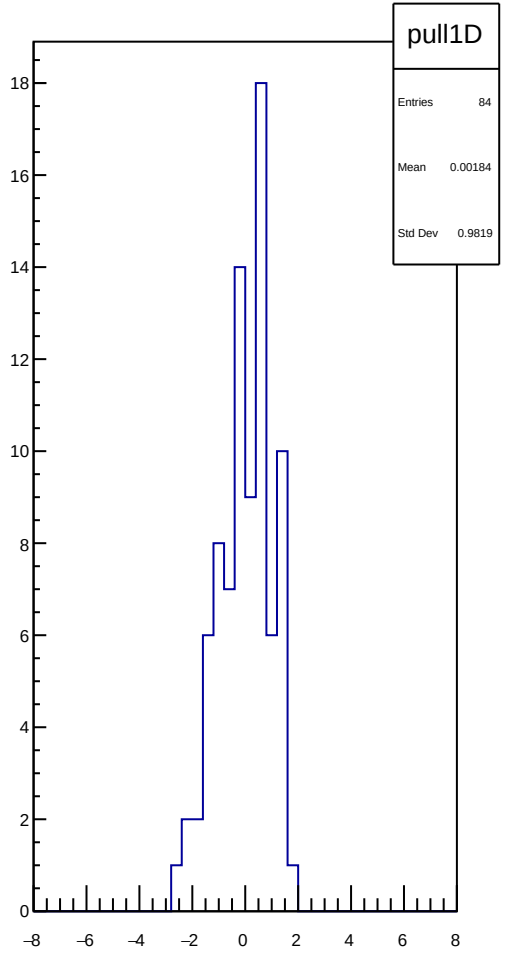

asym_right_dd_rms vs run
χ² / ndf 1041 / 83
p0 813.5 ± 0.6386
880
860
840
820
800
780
760

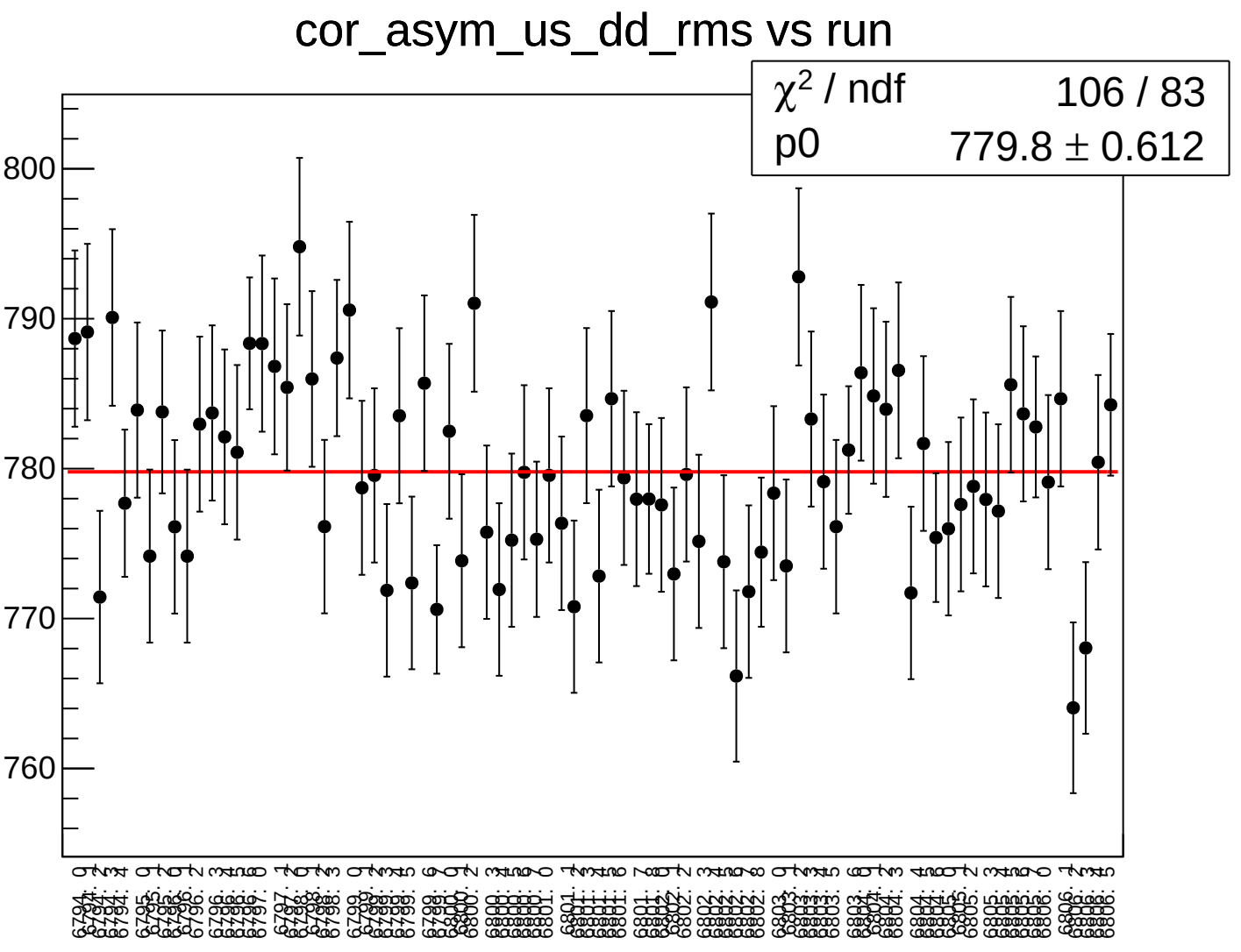

cor_asym_us_avg_mean vs run
χ² / ndf 73.04 / 83
p0 −236.3 ± 866.6
pull
Entries 84
Mean 151.2
Std Dev 105.7

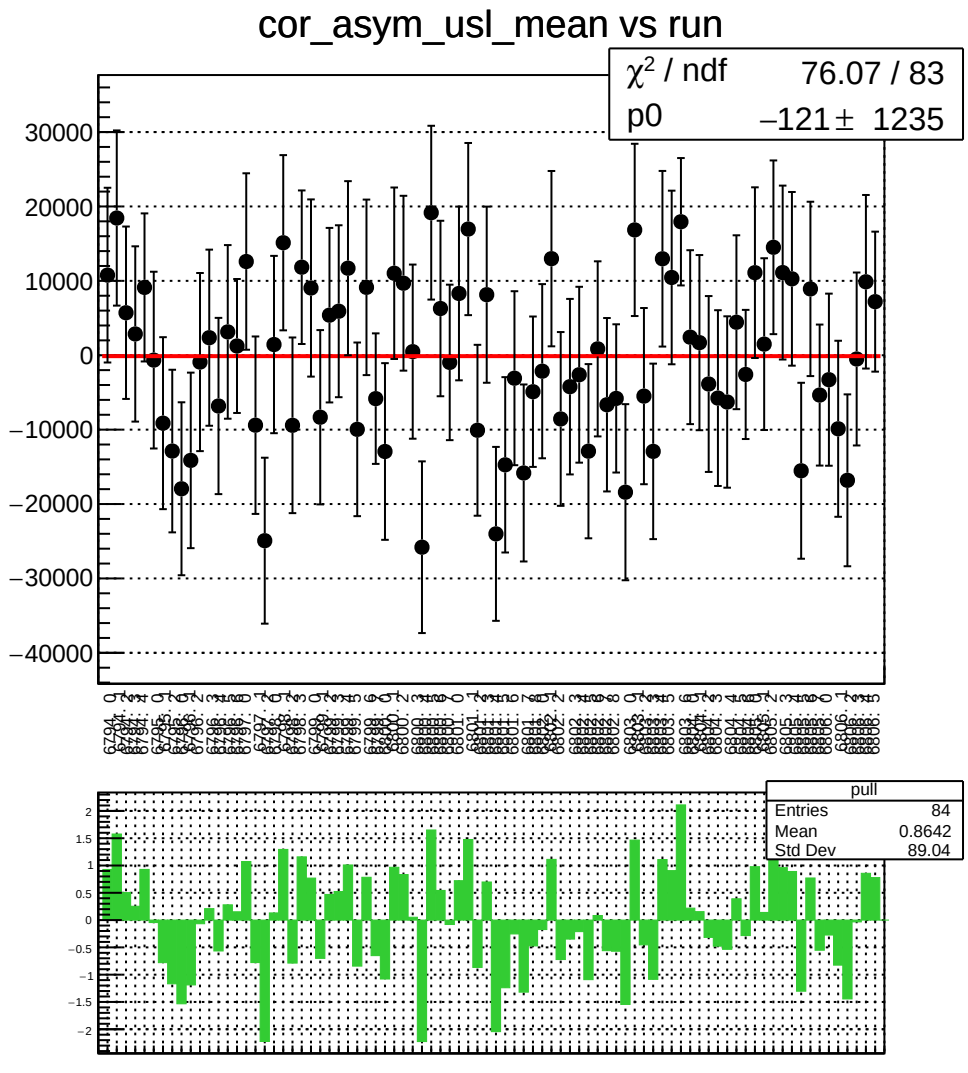

pull1D
Entries 84
Mean −0.008406
Std Dev 0.9324

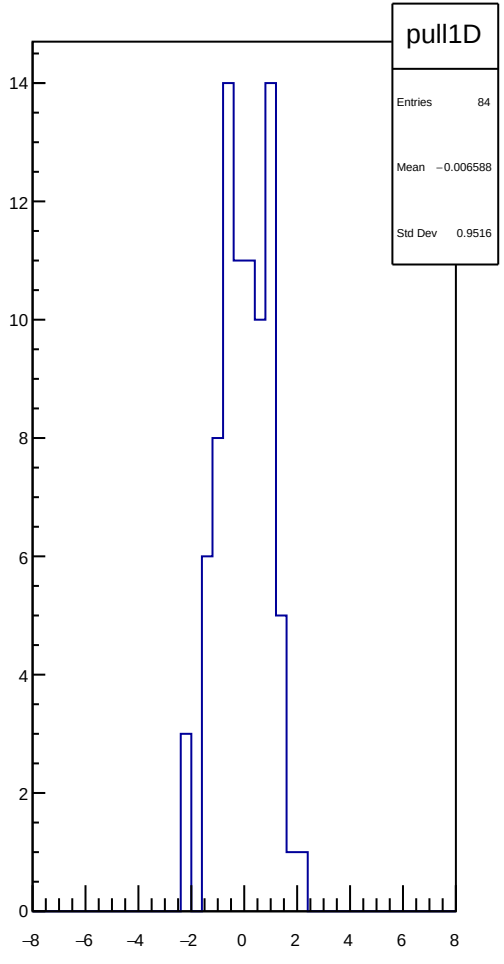

cor_asym_us_avg_rms vs run
χ² / ndf 153.1 / 83
p0 780.9 ± 0.6128
810
800
790
780
770
760

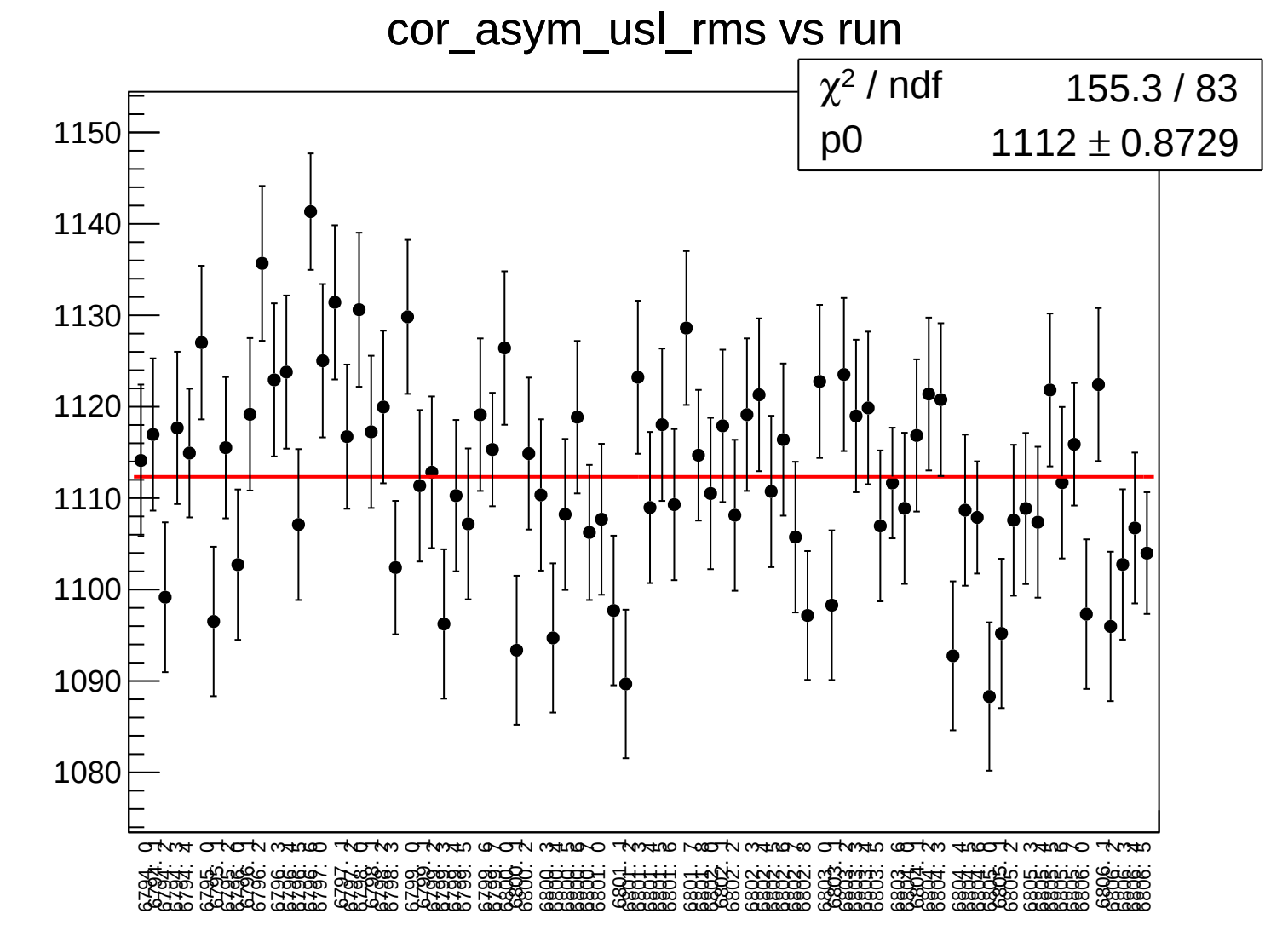

cor_asym_us_dd_mean vs run
χ² / ndf 80.98 / 83
p0 70.69 ± 865.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 755.4
Std Dev 687.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

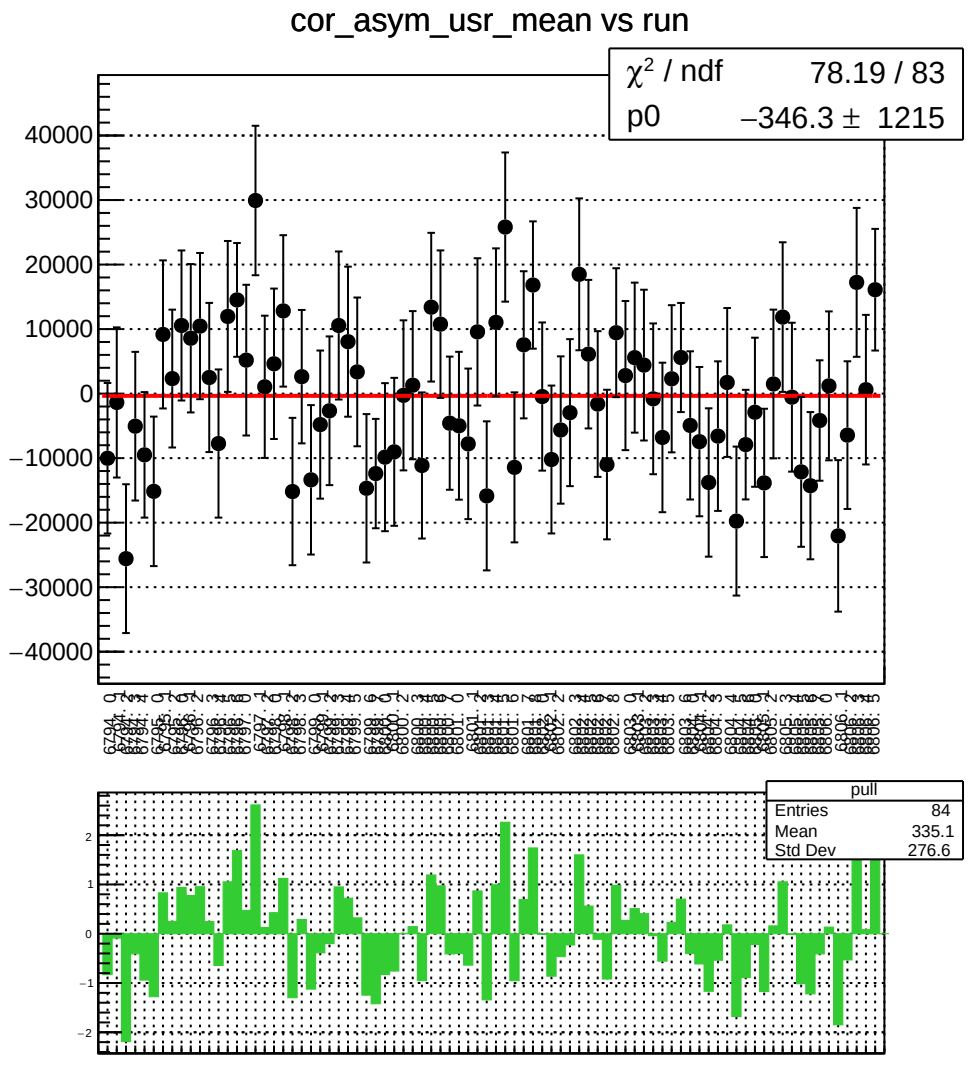

pull1D
Entries 84
Mean 0.00184
Std Dev 0.9819
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

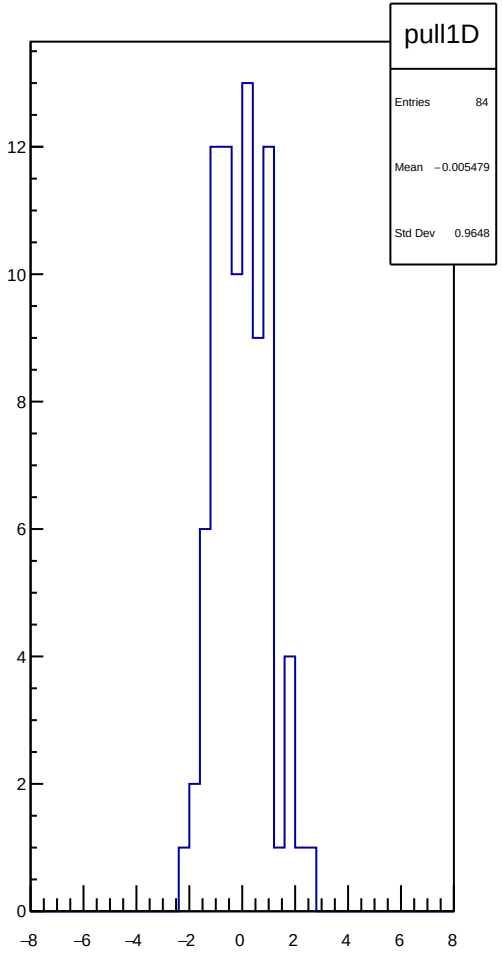

cor_asym_us_dd_rms vs run
χ² / ndf 106 / 83
p0 779.8 ± 0.612
800
790
780
770
760

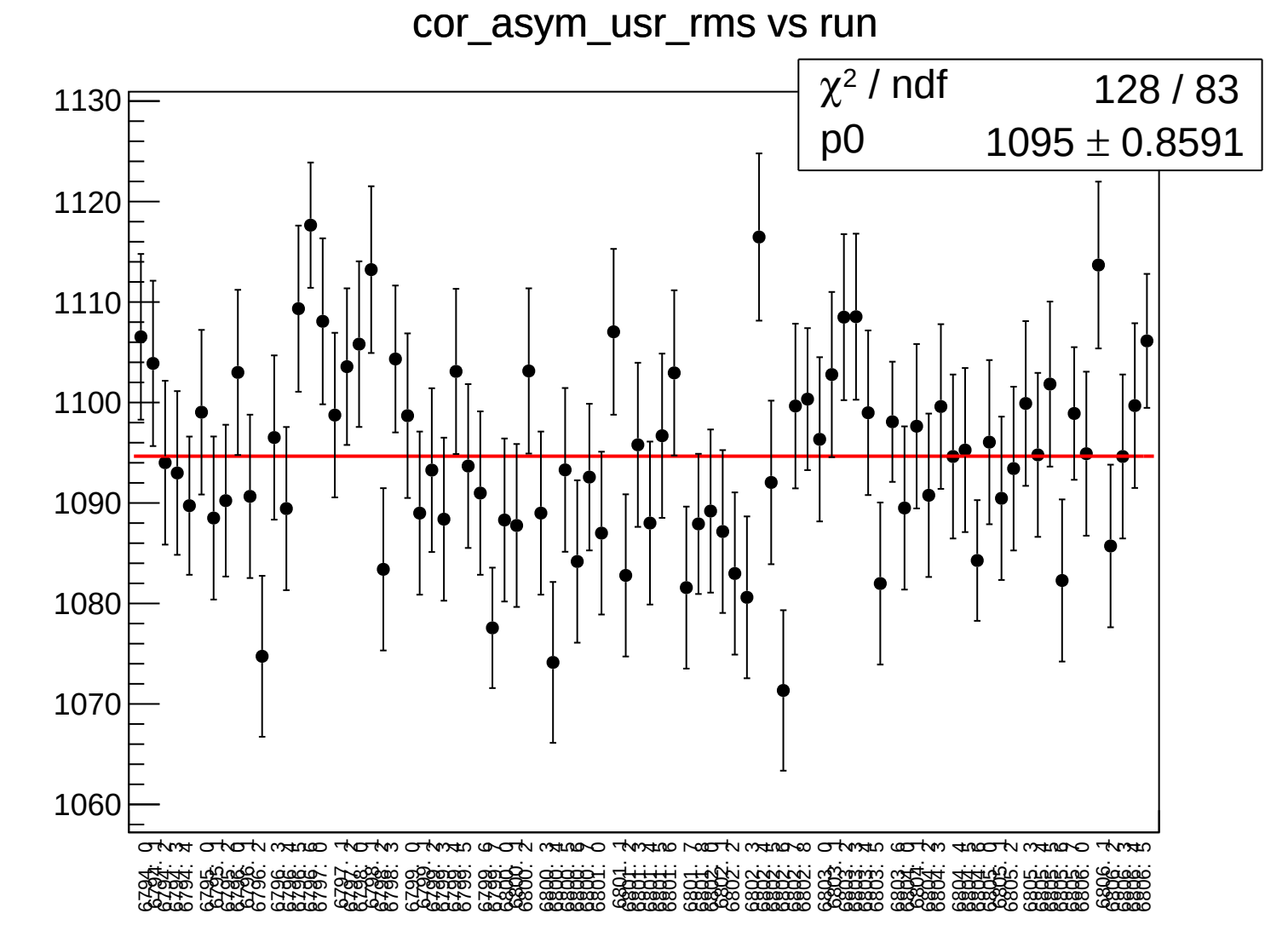

cor_asym_usl_mean vs run
χ² / ndf 76.07 / 83
p0 −121 ± 1235
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 0.8642
Std Dev 89.04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

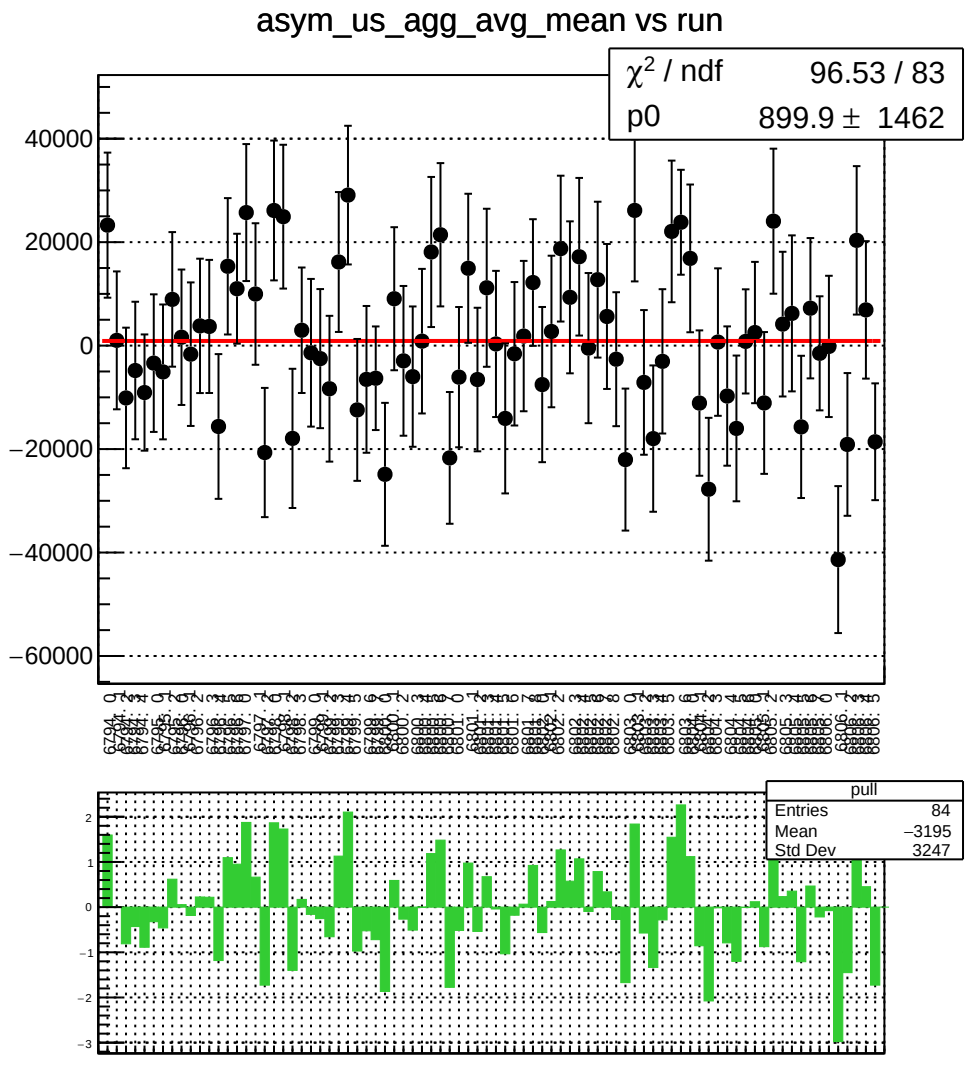

pull1D
Entries 84
Mean −0.006588
Std Dev 0.9516
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

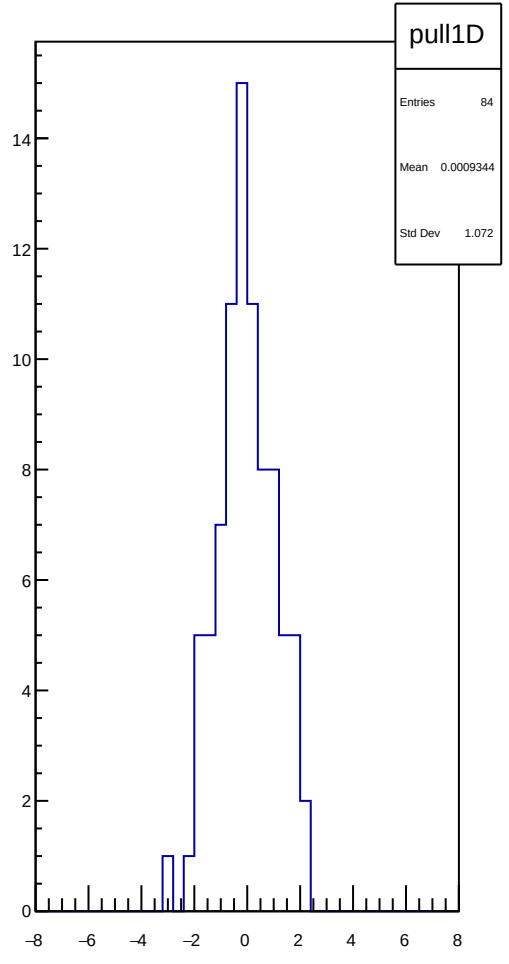

cor_asym_usl_rms vs run
χ^2 / ndf 155.3 / 83
p0 1112 ± 0.8729
1150
1140
1130
1120
1110
1100
1090
1080

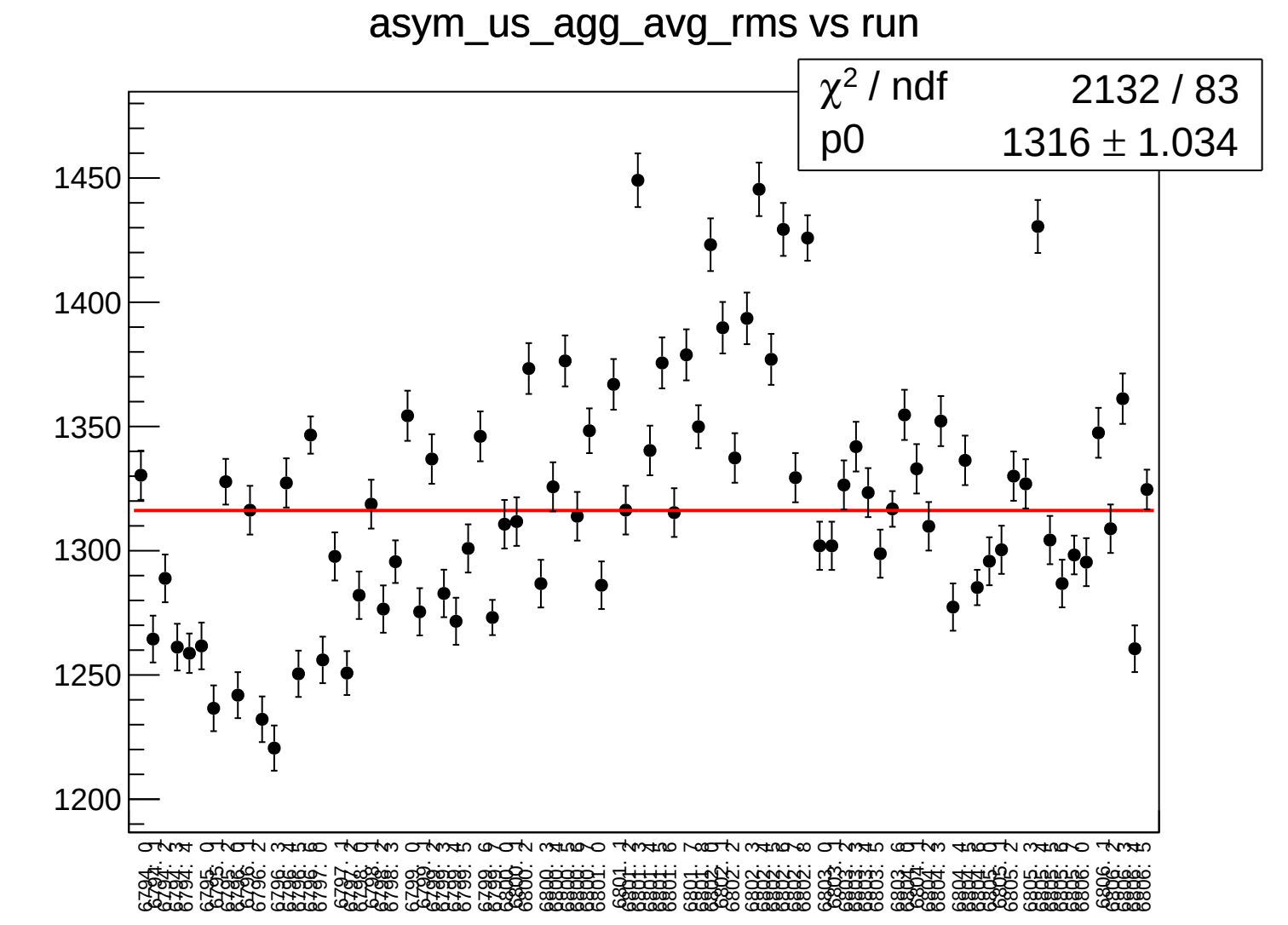

cor_asym_usr_mean vs run
χ² / ndf 78.19 / 83
p0 −346.3 ± 1215
pull
Entries 84
Mean 335.1
Std Dev 276.6

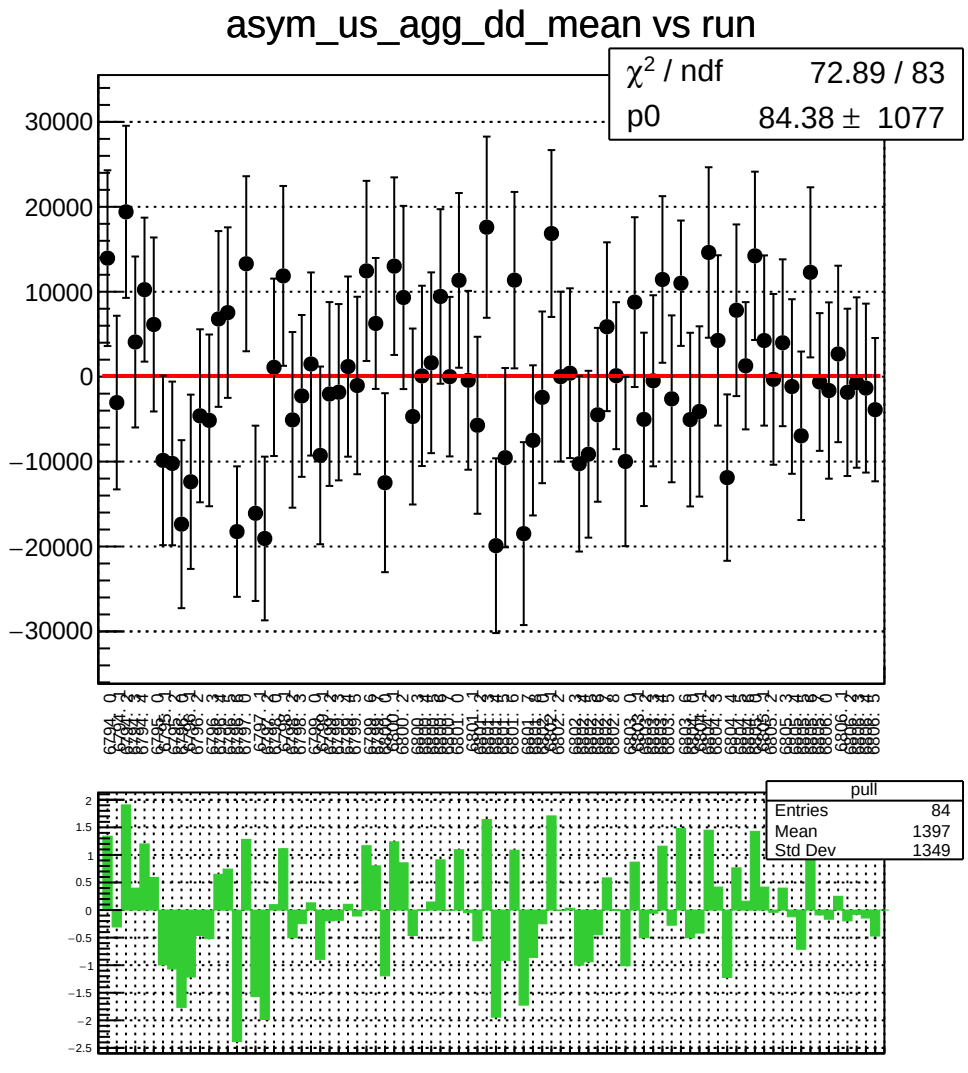

pull1D
Entries 84
Mean −0.005479
Std Dev 0.9648

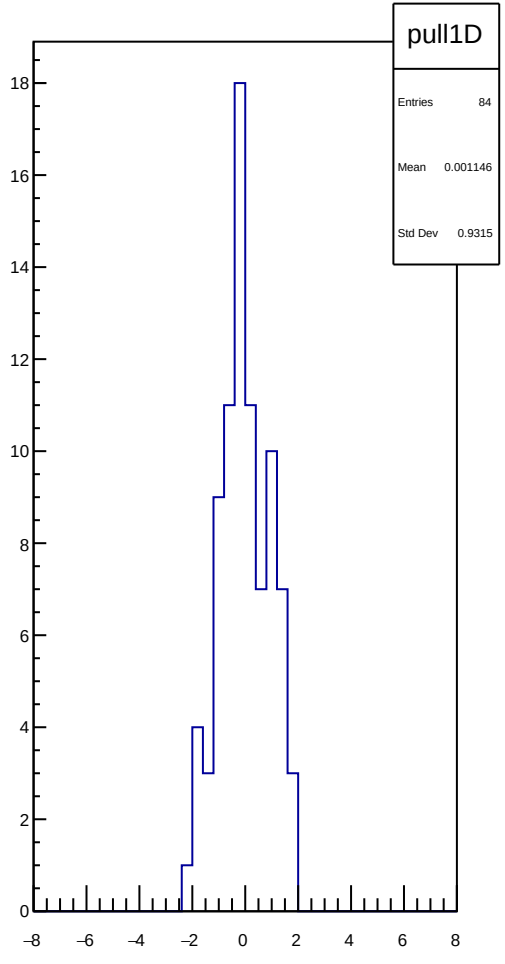

cor_asym_usr_rms vs run
χ² / ndf 128 / 83
p0 1095 ± 0.8591
1130
1120
1110
1100
1090
1080
1070
1060

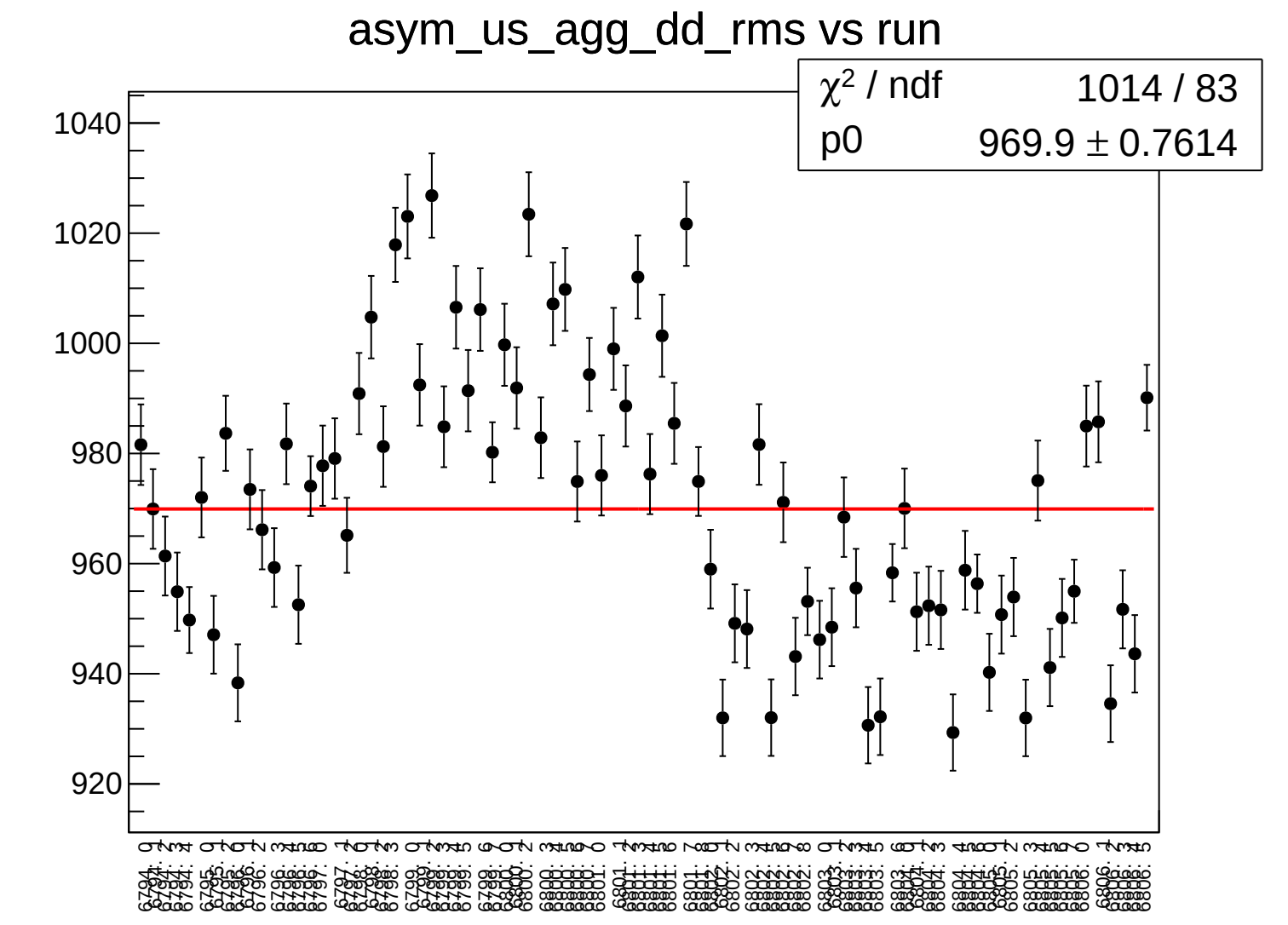

asym_us_agg_avg_mean vs run
χ² / ndf 96.53 / 83
p0 899.9 ± 1462
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −3195
Std Dev 3247
2
1
0
−1
−2
−3

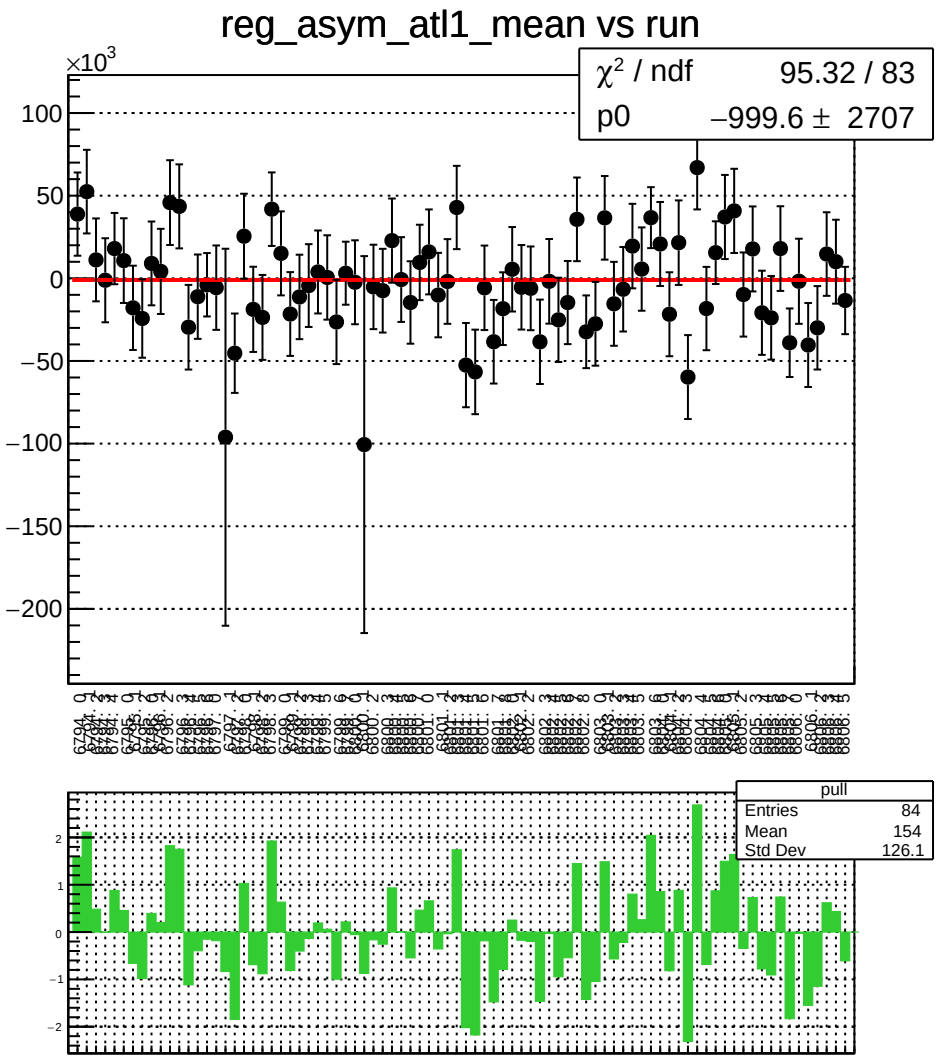

pull1D
Entries 84
Mean 0.0009344
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

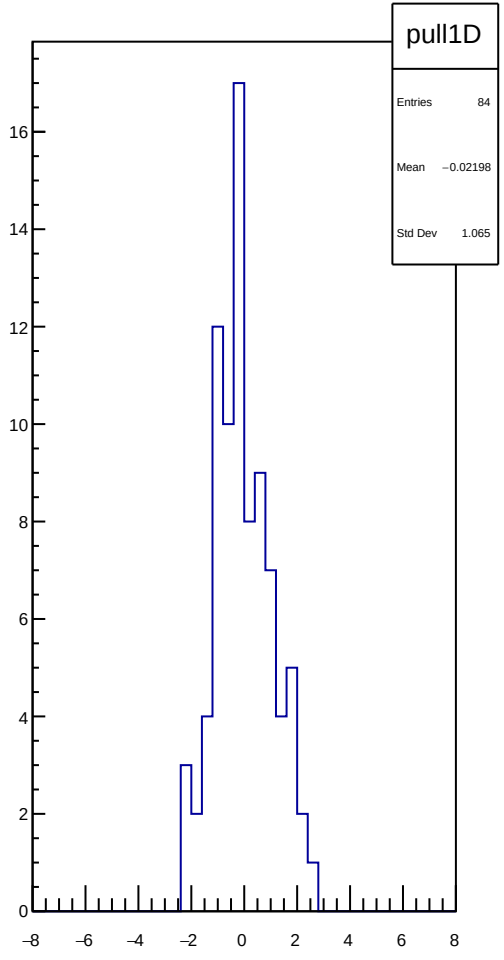

asym_us_agg_avg_rms vs run
χ² / ndf 2132 / 83
p0 1316 ± 1.034
1450
1400
1350
1300
1250
1200

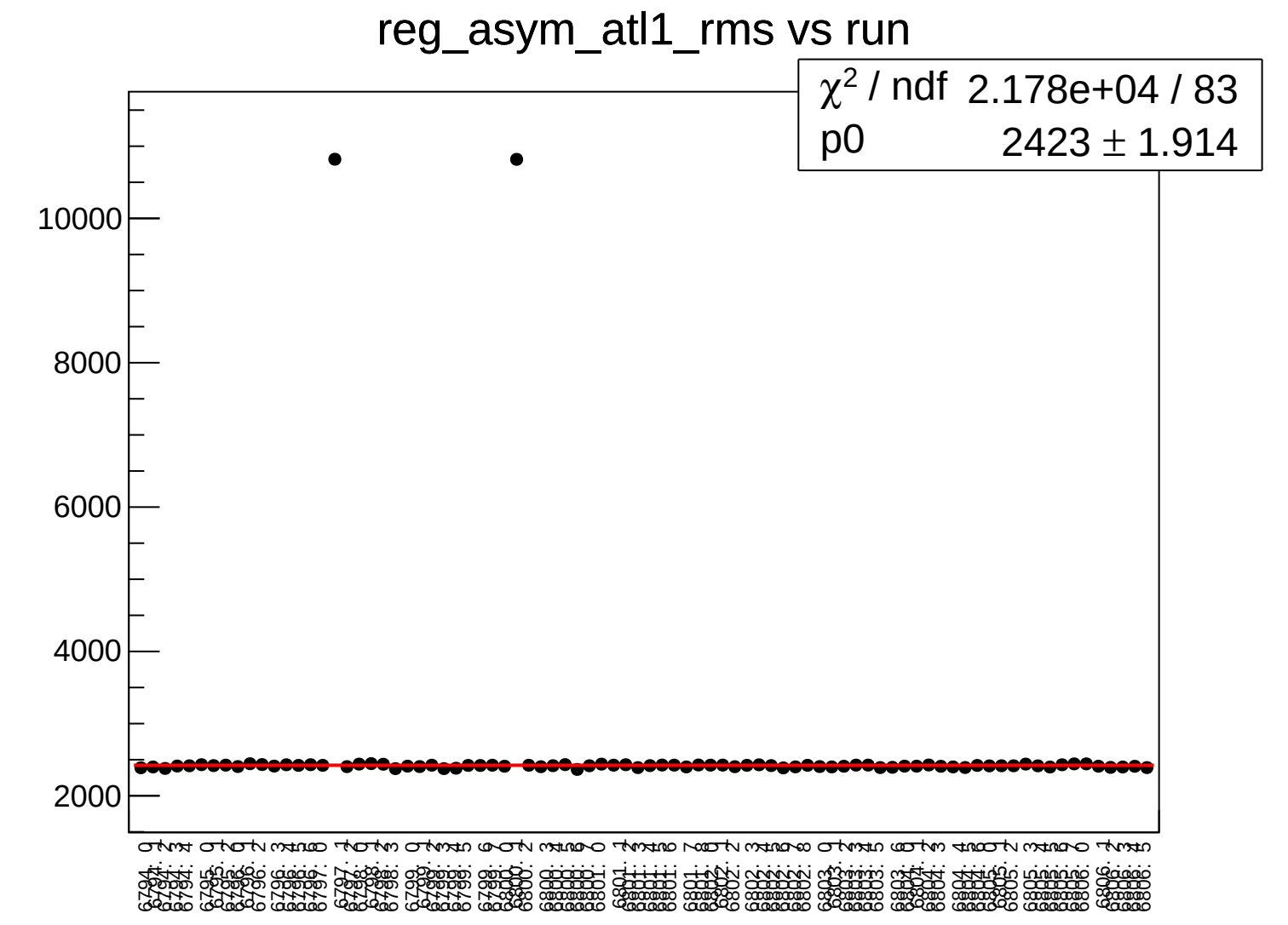

asym_us_agg_dd_mean vs run
χ² / ndf 72.89 / 83
p0 84.38 ± 1077
pull
Entries 84
Mean 1397
Std Dev 1349

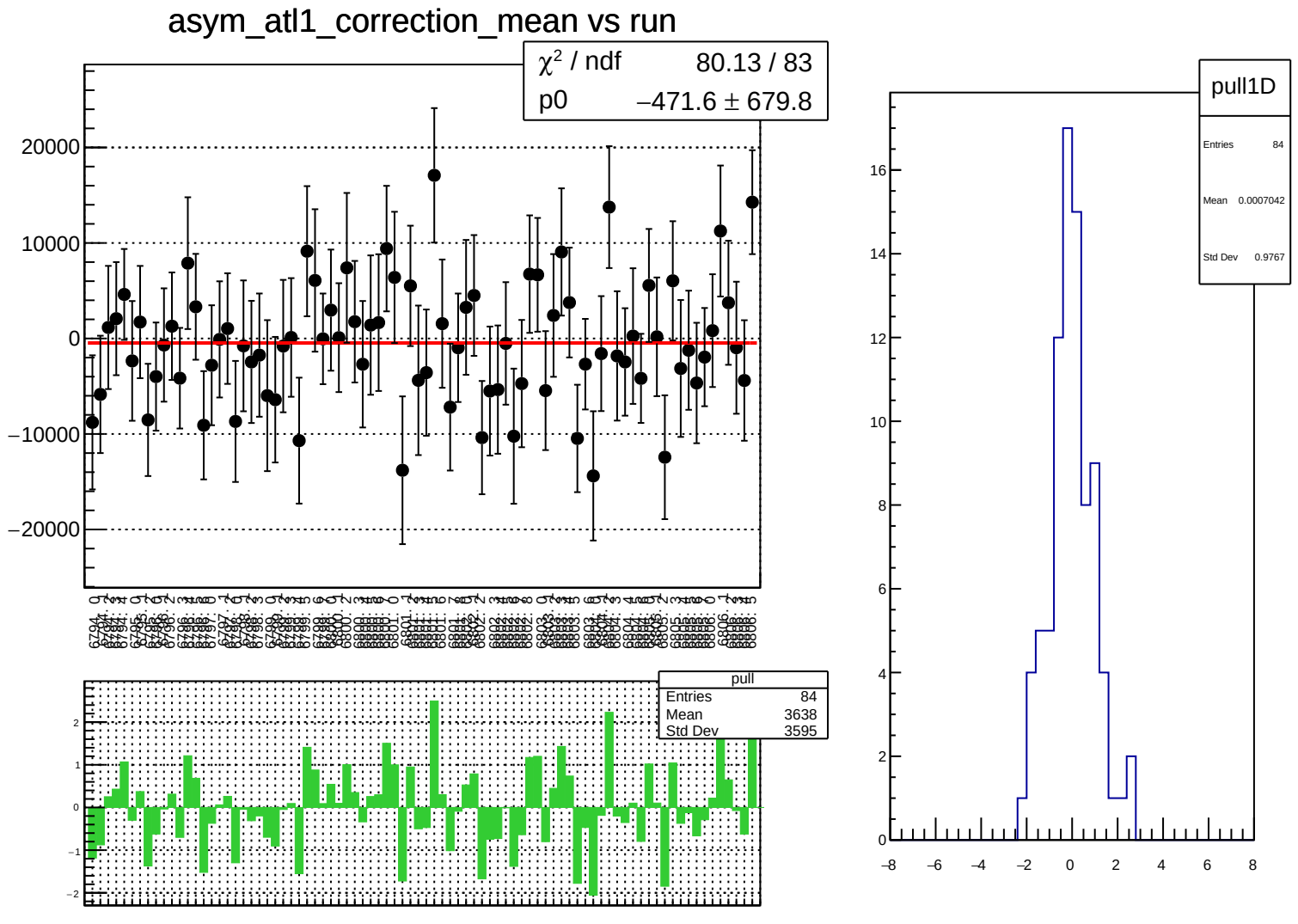

pull1D
Entries 84
Mean 0.001146
Std Dev 0.9315

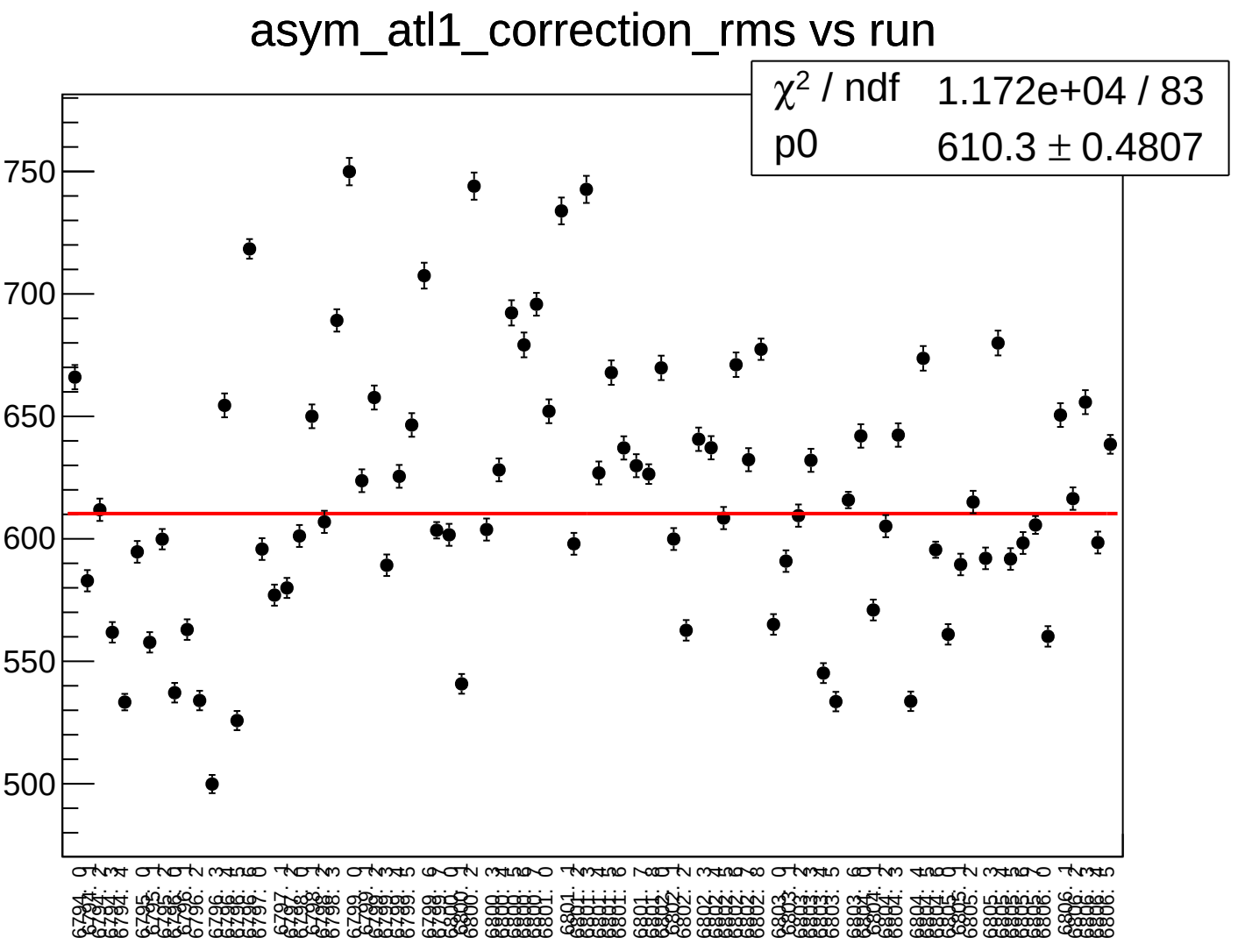

asym_us_agg_dd_rms vs run
χ² / ndf 1014 / 83
p0 969.9 ± 0.7614
1040
1020
1000
980
960
940
920

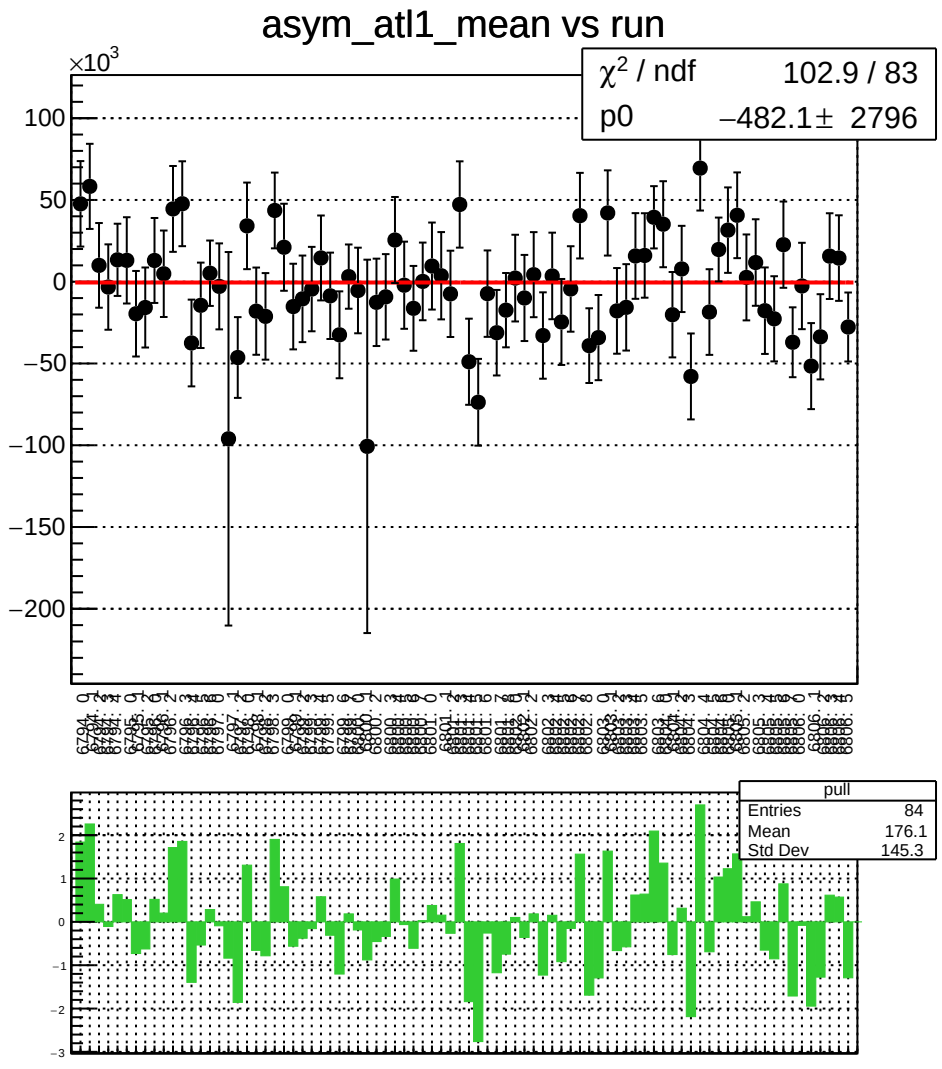

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 95.32 / 83
p0 −999.6 ± 2707
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 154
Std Dev 126.1
2
1
0
−1
−2

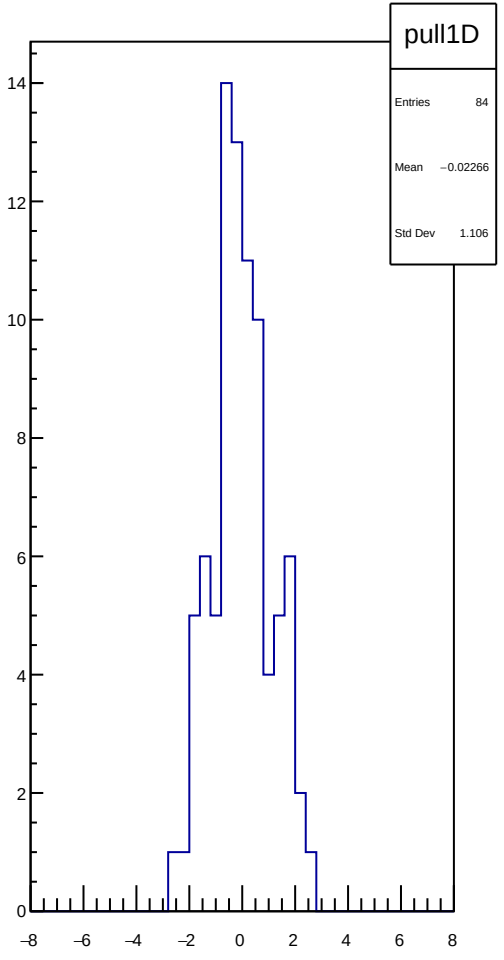

pull1D
Entries 84
Mean −0.02198
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

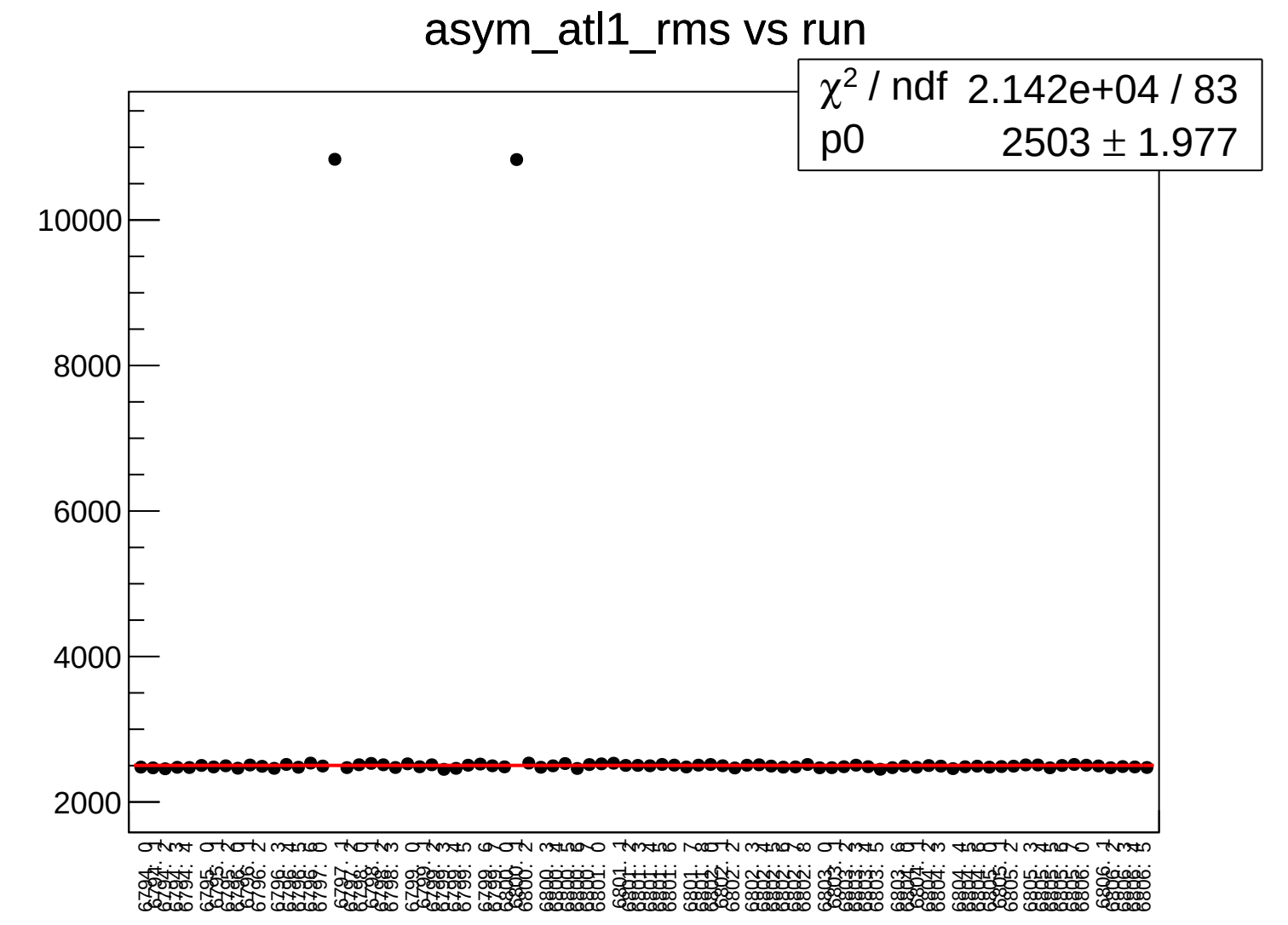

reg_asym_atl1_rms vs run
χ² / ndf 2.178e+04 / 83
p0 2423 ± 1.914
10000
8000
6000
4000
2000

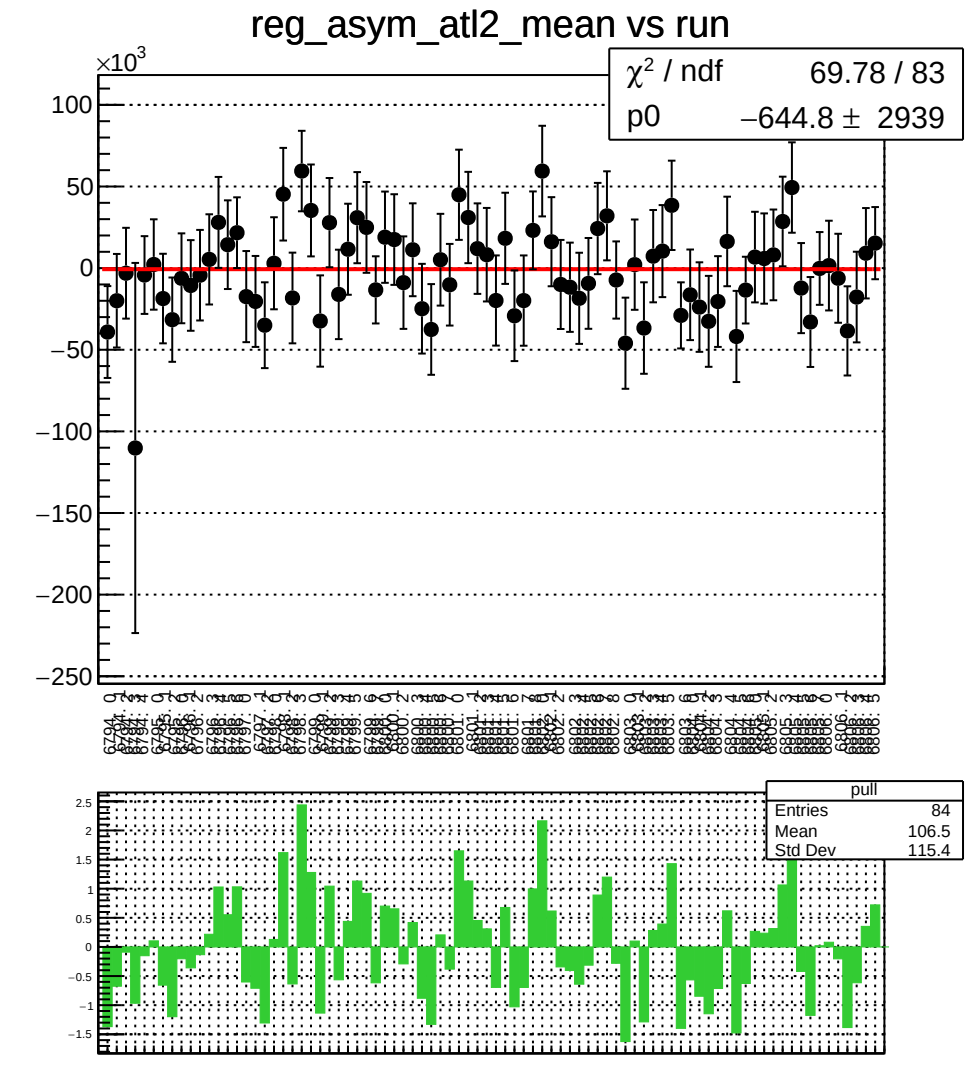

asym_atl1_correction_mean vs run
χ² / ndf 80.13 / 83
p0 −471.6 ± 679.8
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 3638
Std Dev 3595
pull1D
Entries 84
Mean 0.0007042
Std Dev 0.9767
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

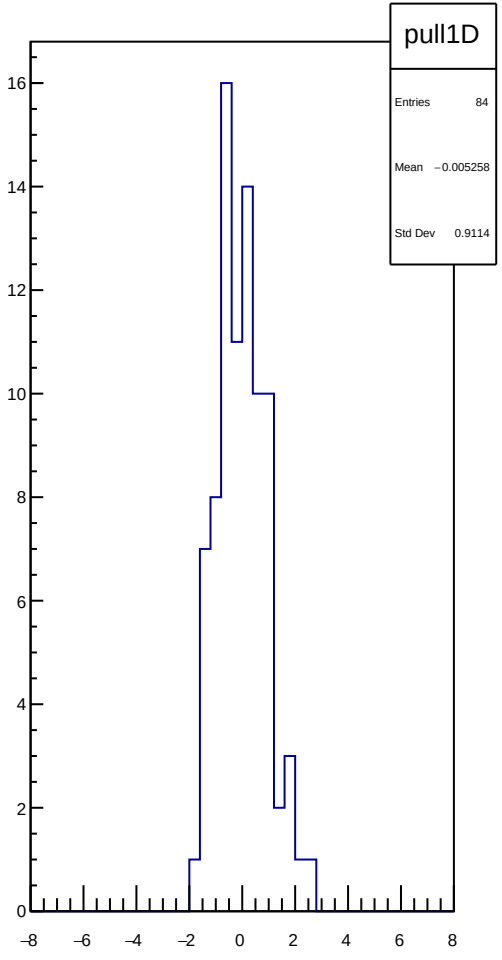

asym_atl1_correction_rms vs run
χ² / ndf 1.172e+04 / 83
p0 610.3 ± 0.4807
750
700
650
600
550
500

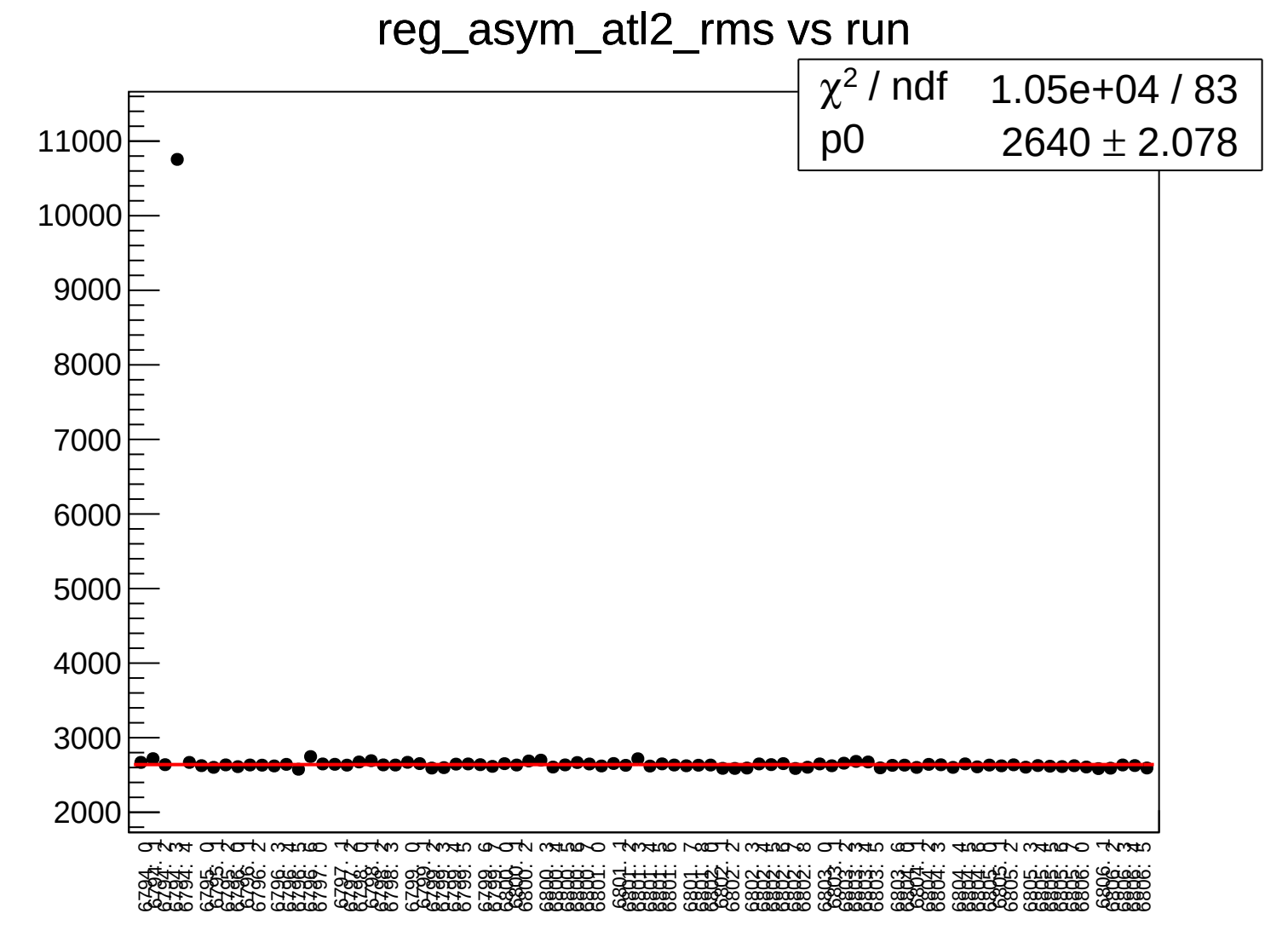

asym_atl1_mean vs run
χ² / ndf 102.9 / 83
p0 −482.1± 2796
×10³
pull
Entries 84
Mean 176.1
Std Dev 145.3

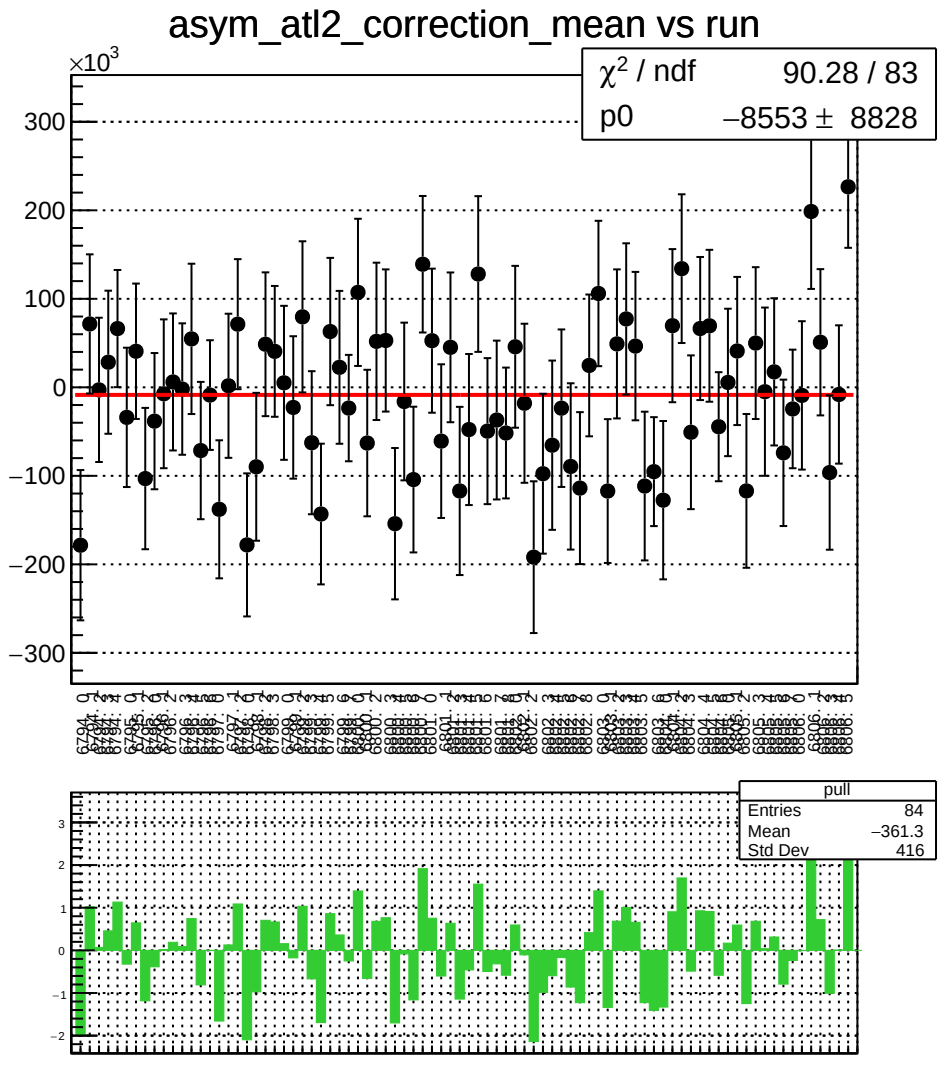

pull1D
Entries 84
Mean −0.02266
Std Dev 1.106

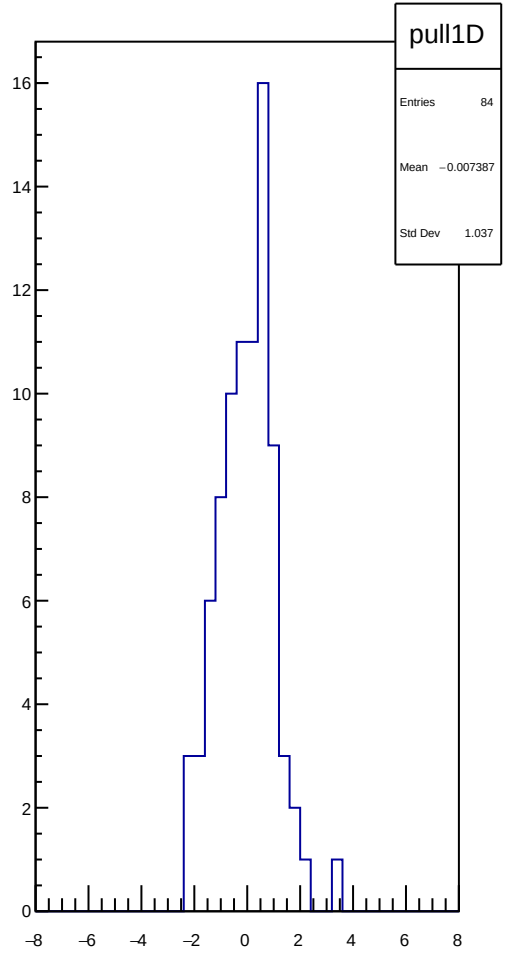

asym_atl1_rms vs run
χ² / ndf 2.142e+04 / 83
p0 2503 ± 1.977
10000
8000
6000
4000
2000

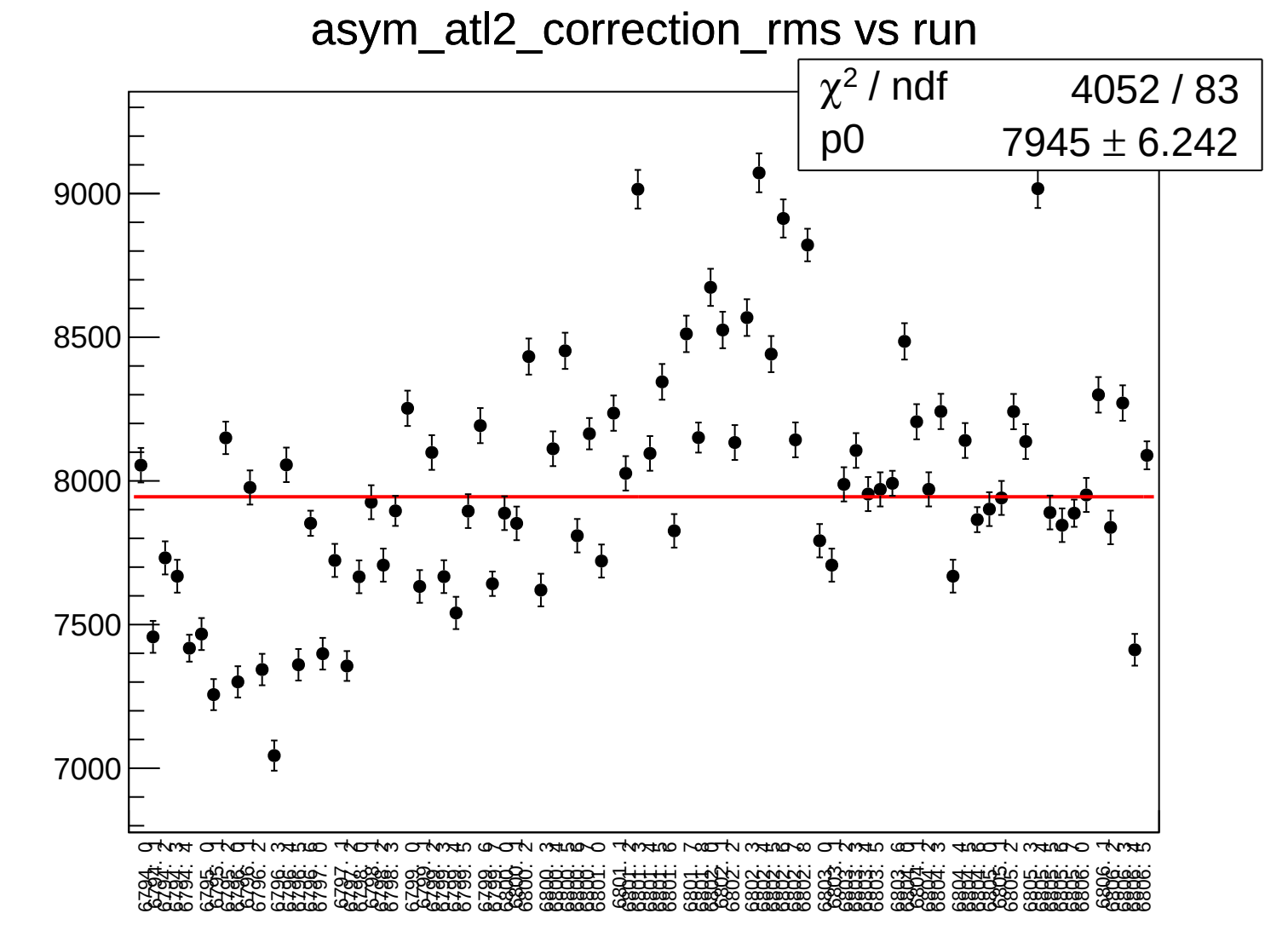

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 69.78 / 83
p0 −644.8 ± 2939
pull
Entries 84
Mean 106.5
Std Dev 115.4

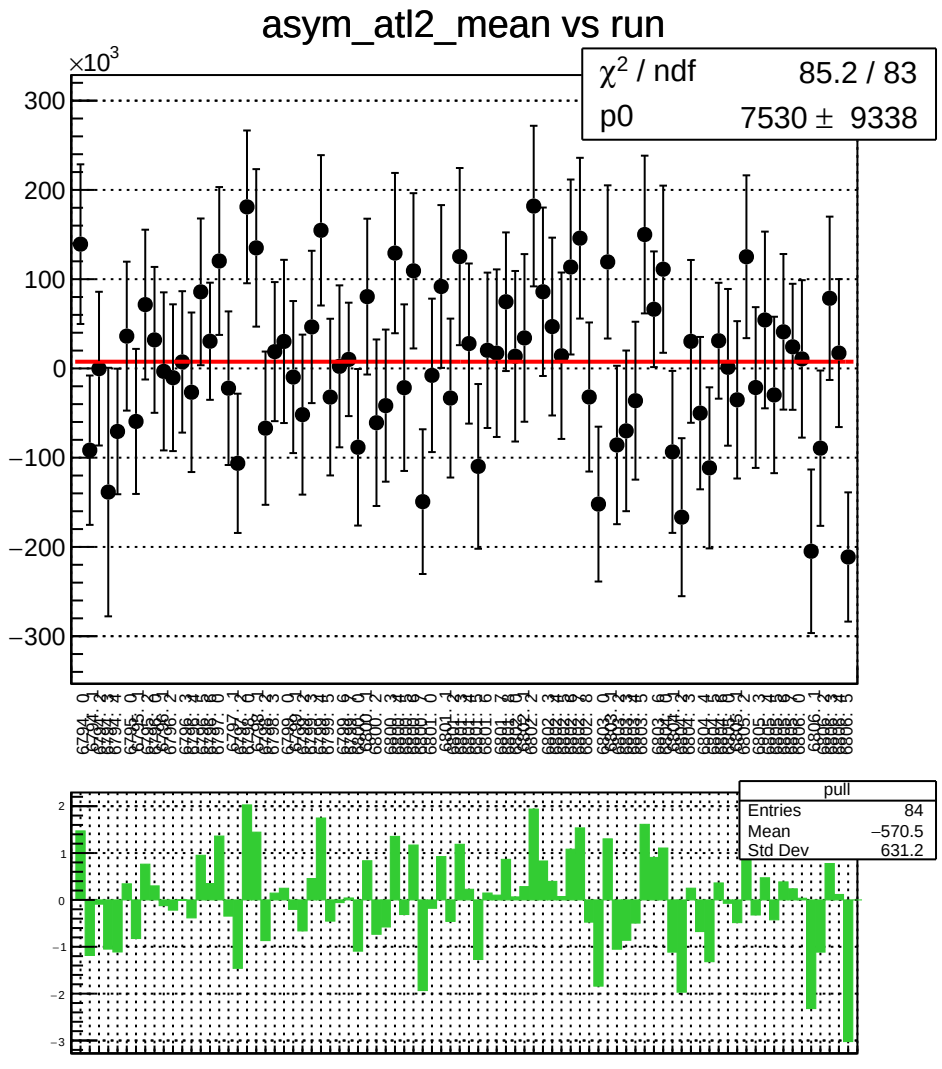

pull1D
Entries 84
Mean −0.005258
Std Dev 0.9114

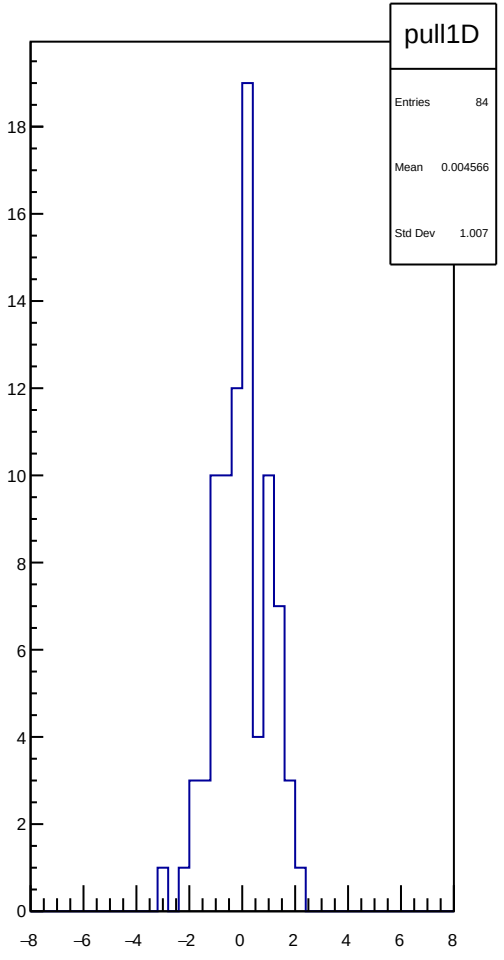

reg_asym_atl2_rms vs run
χ^2 / ndf 1.05e+04 / 83
p0 2640 ± 2.078
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

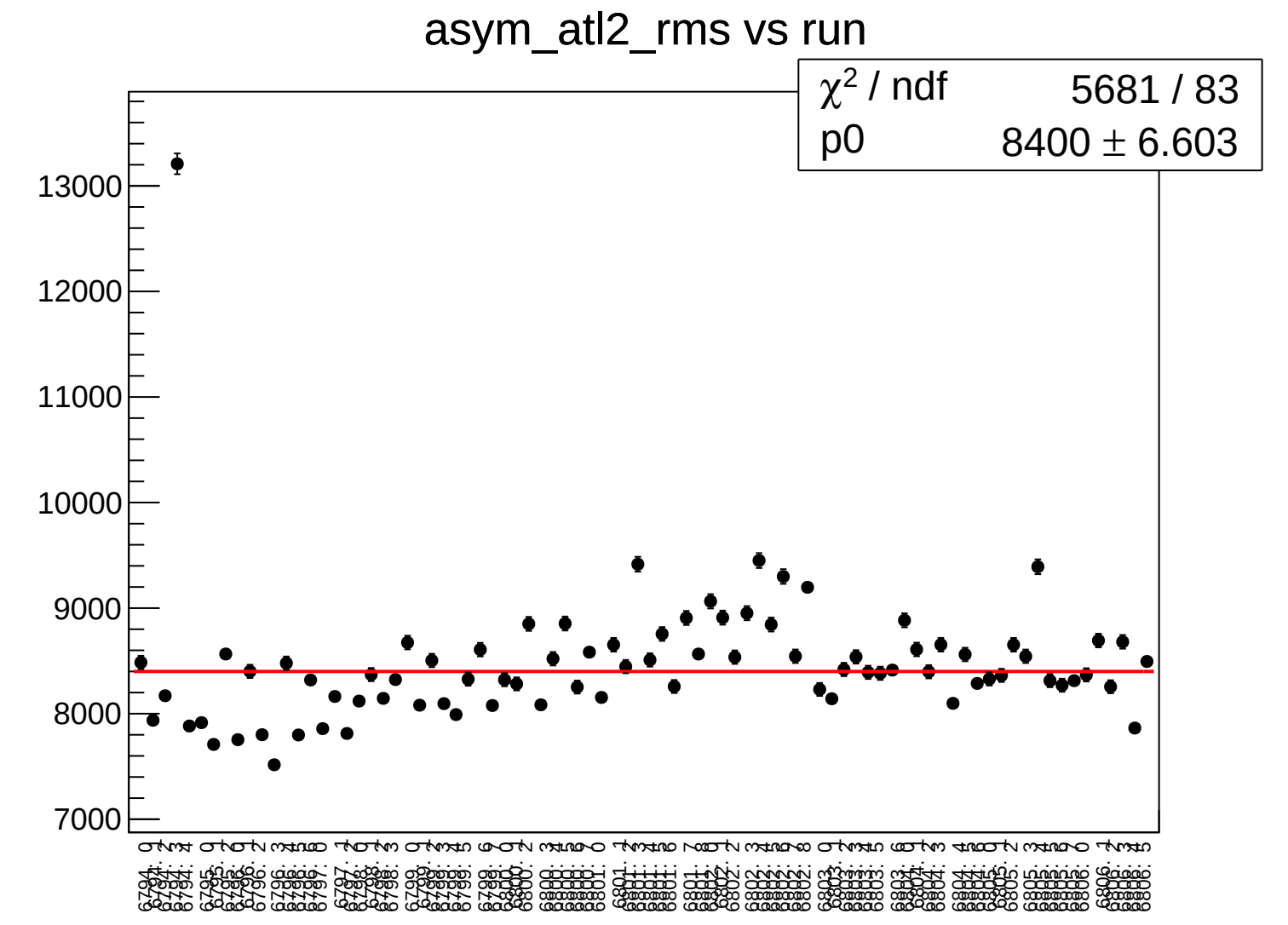

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 90.28 / 83
p0 −8553 ± 8828
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −361.3
Std Dev 416
3
2
1
0
−1
−2

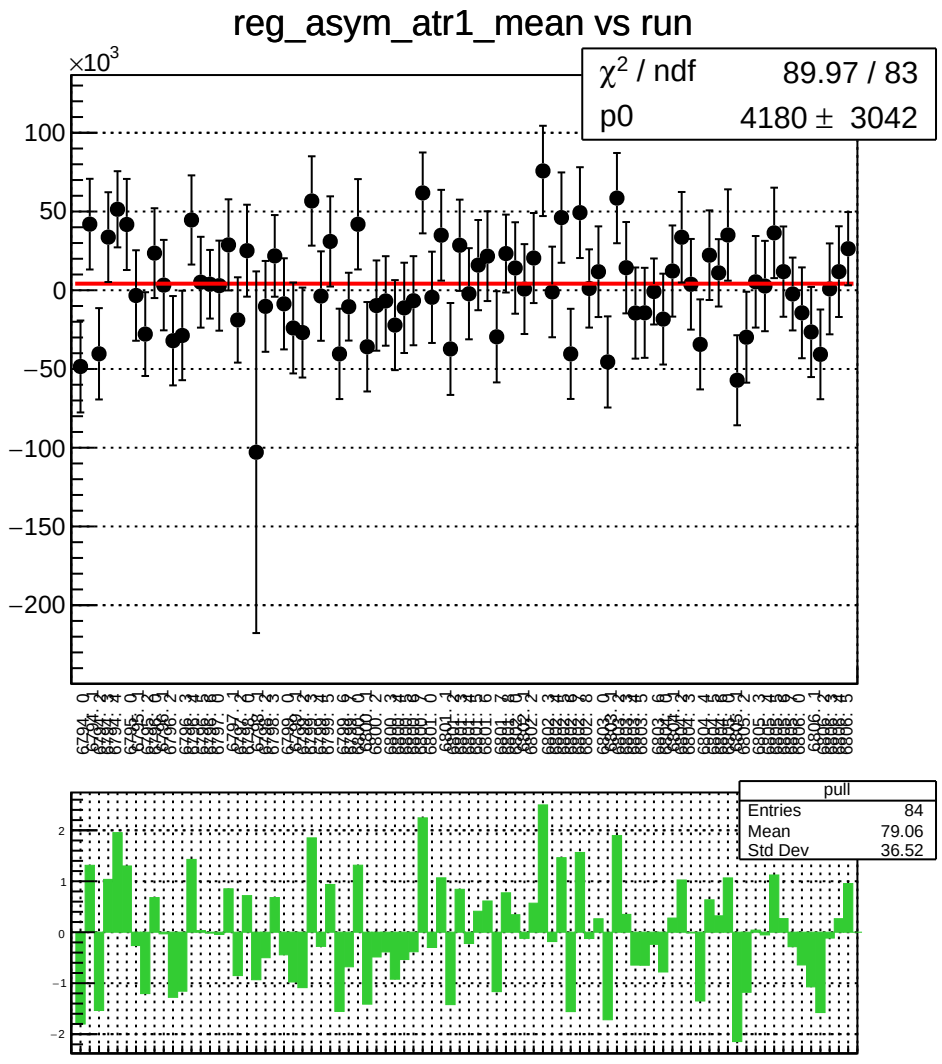

pull1D
Entries 84
Mean −0.007387
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

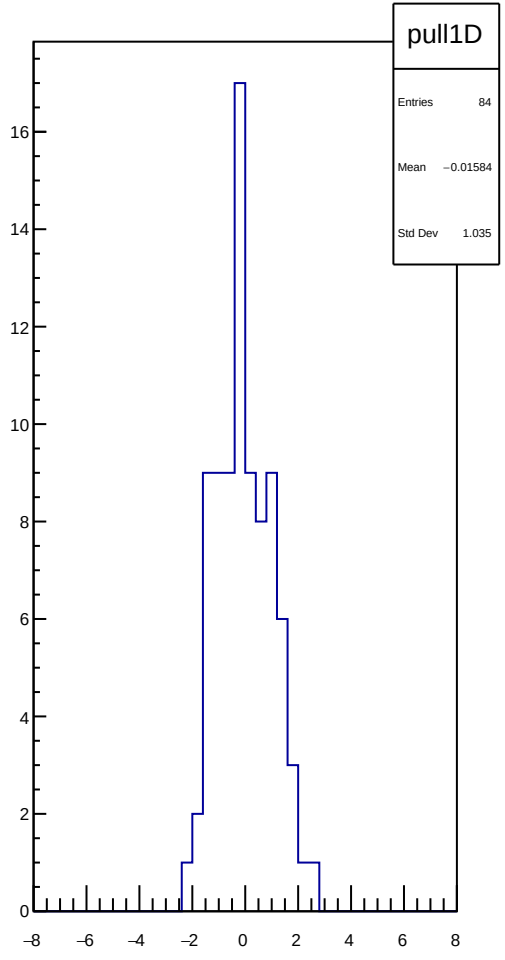

asym_atl2_correction_rms vs run
χ² / ndf 4052 / 83
p0 7945 ± 6.242
9000
8500
8000
7500
7000

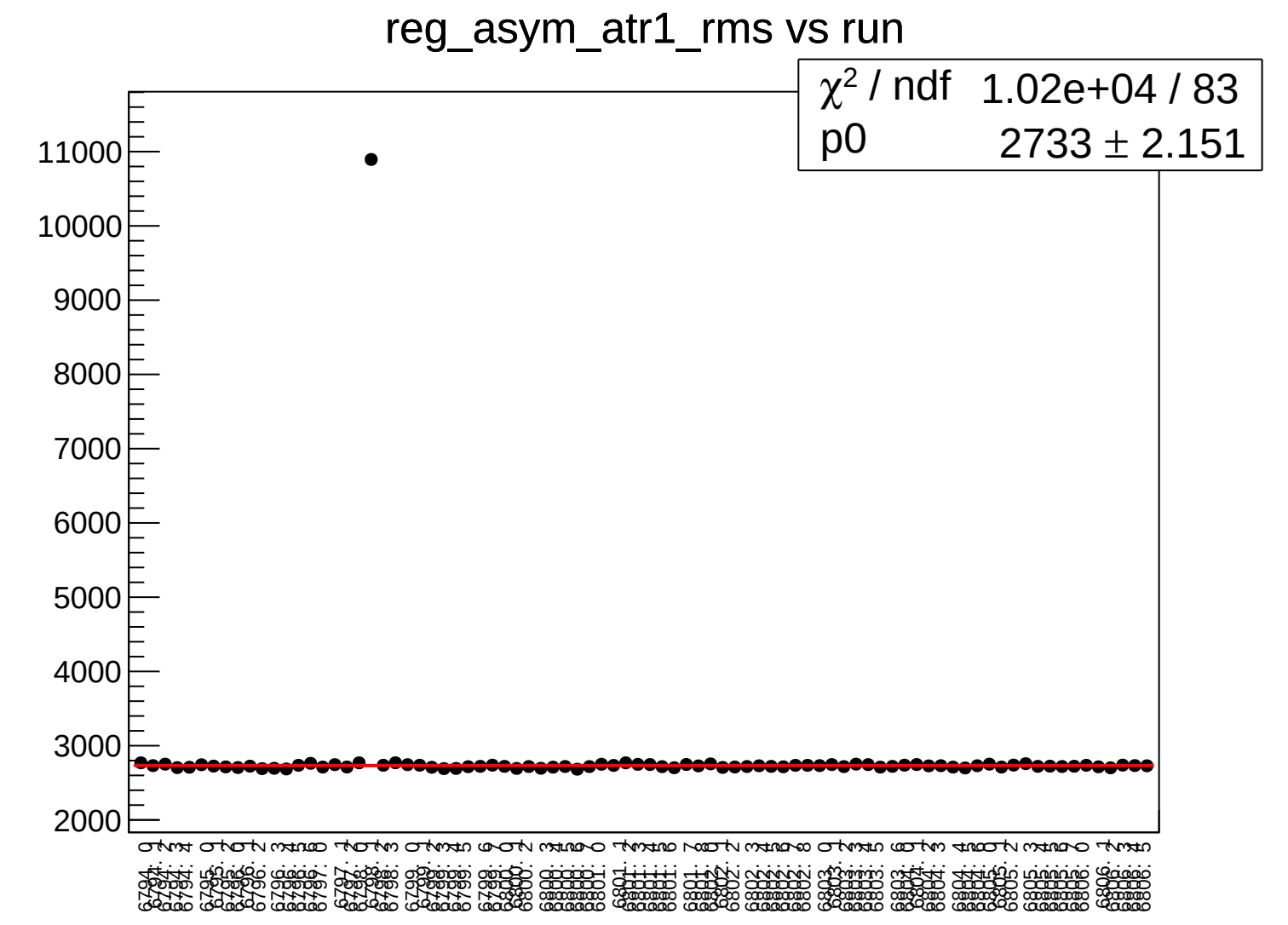

asym_atl2_mean vs run
×10^3
χ^2 / ndf 85.2 / 83
p0 7530 ± 9338
pull
Entries 84
Mean −570.5
Std Dev 631.2

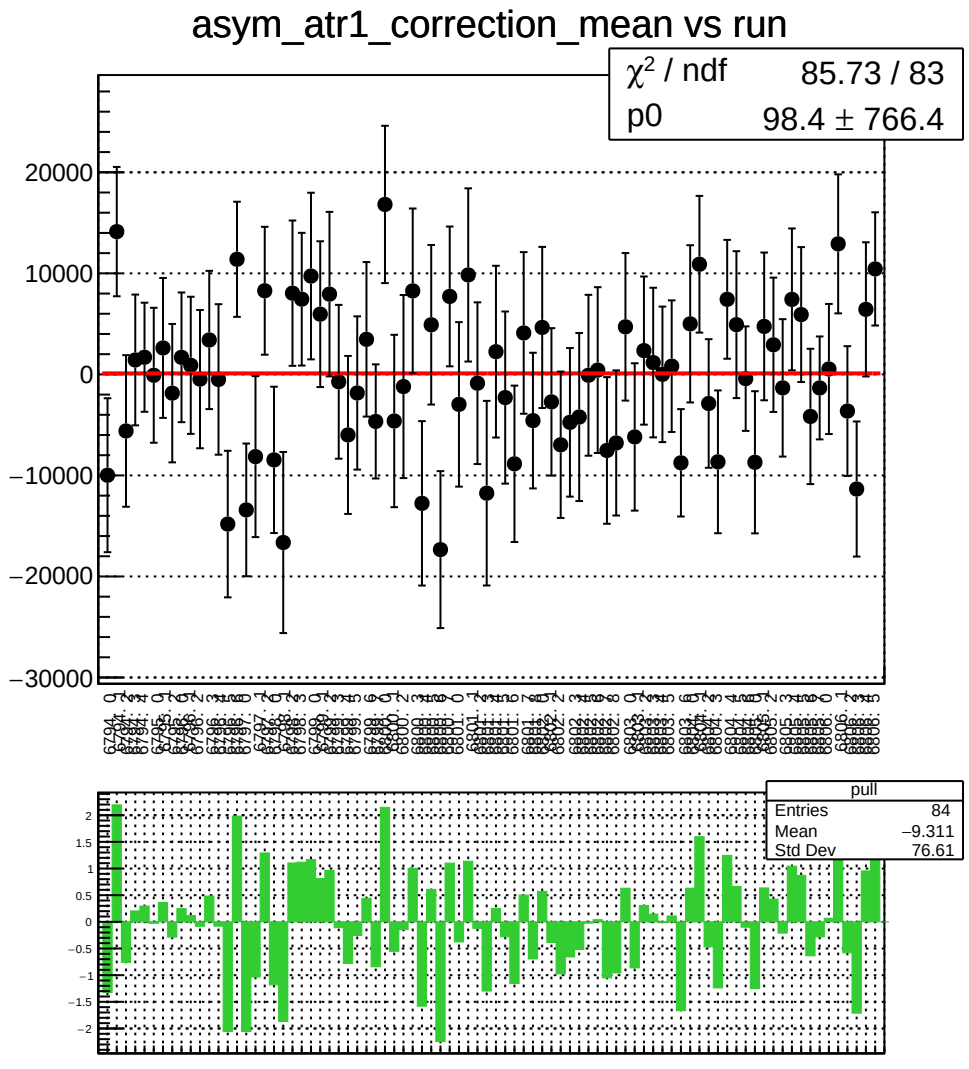

pull1D
Entries 84
Mean 0.004566
Std Dev 1.007

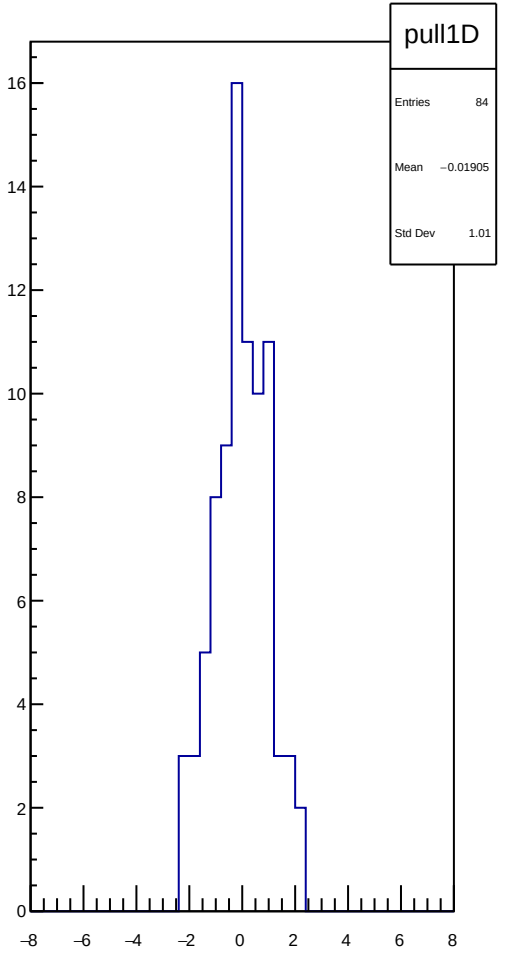

asym_atl2_rms vs run
χ² / ndf 5681 / 83
p0 8400 ± 6.603
13000
12000
11000
10000
9000
8000
7000

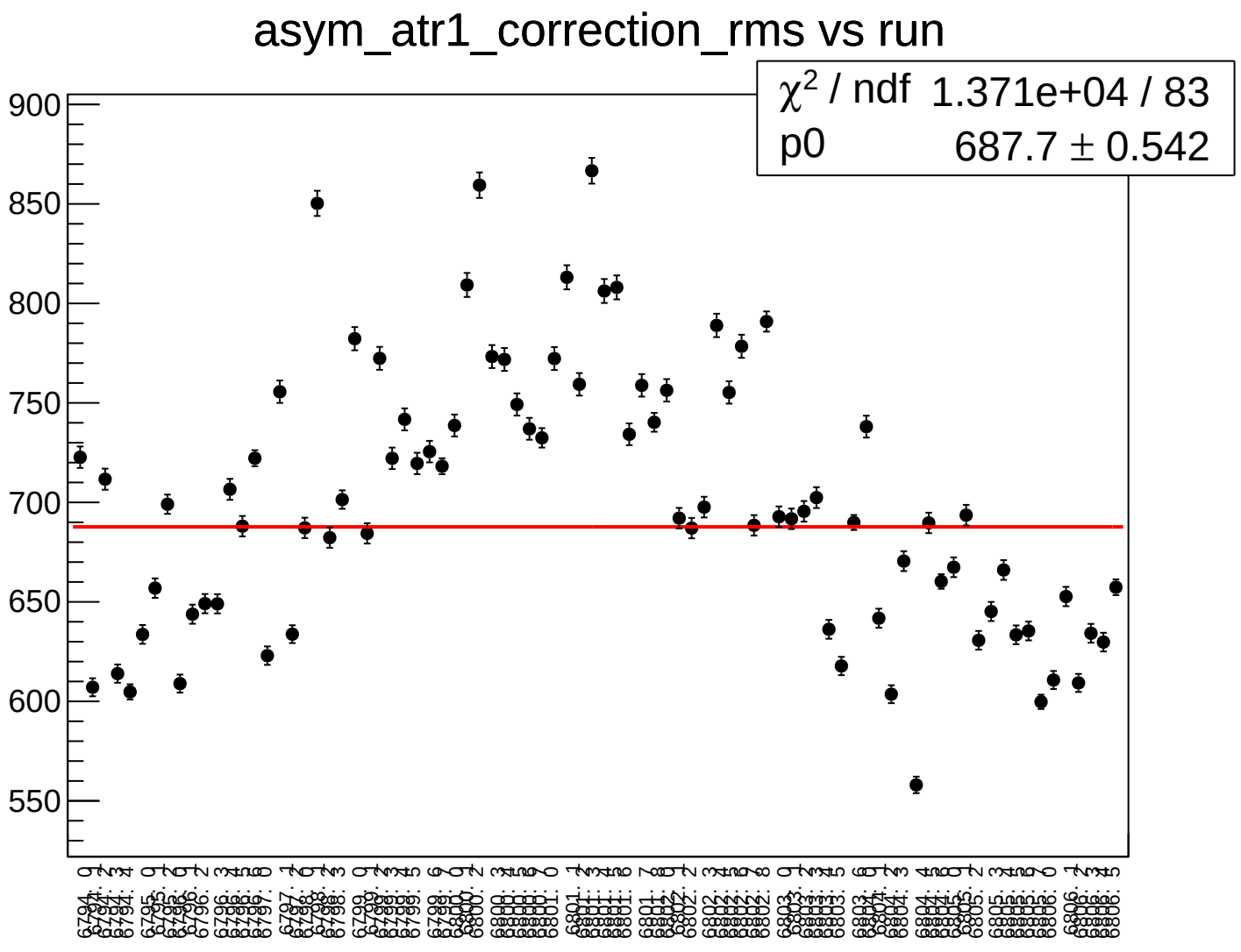

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 89.97 / 83
p0 4180 ± 3042
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 79.06
Std Dev 36.52
2
1
0
−1
−2

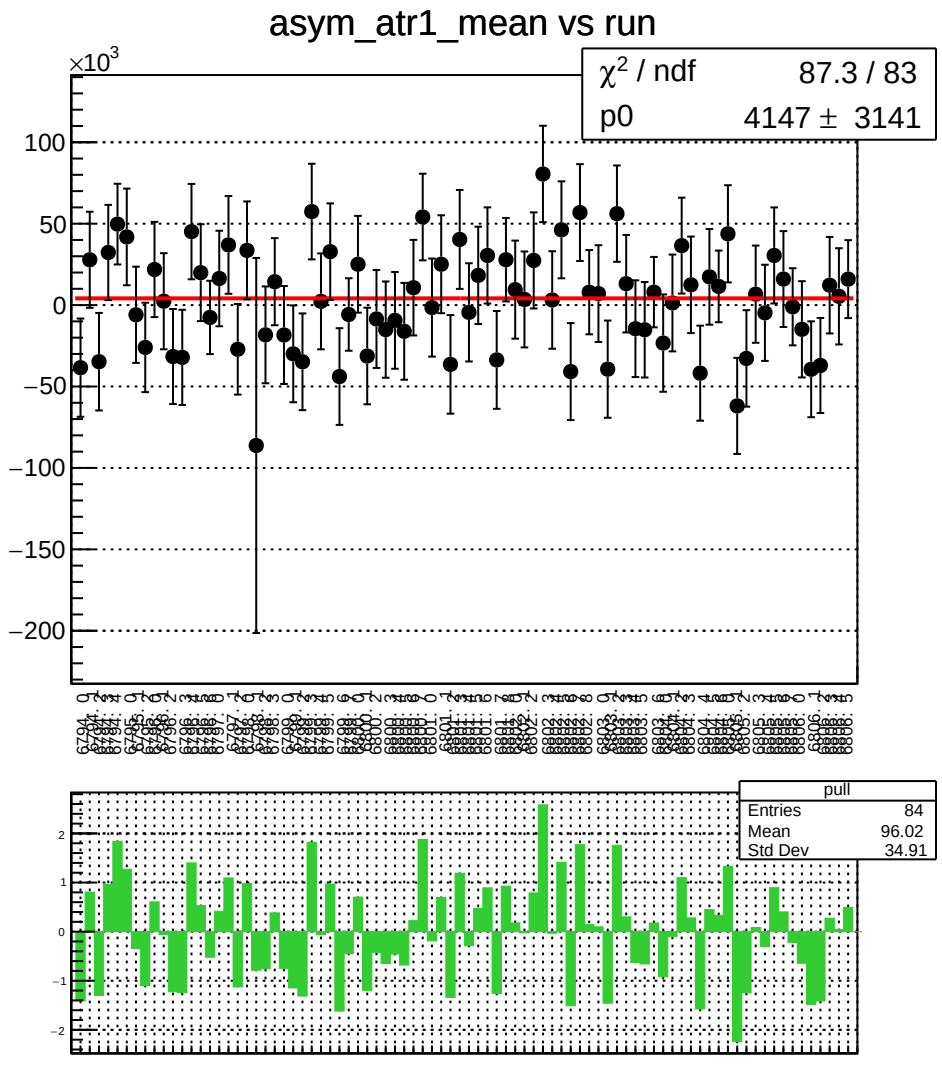

pull1D
Entries 84
Mean −0.01584
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

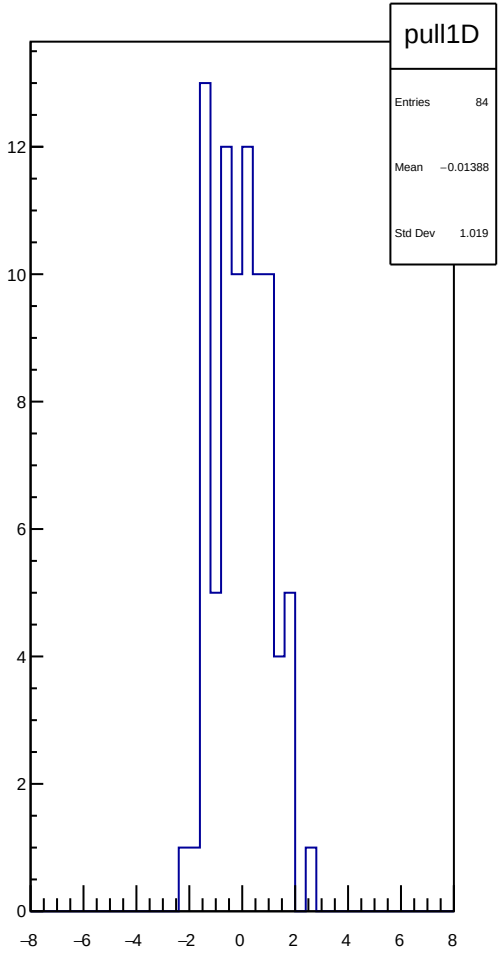

reg_asym_atr1_rms vs run
χ² / ndf 1.02e+04 / 83
p0 2733 ± 2.151
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

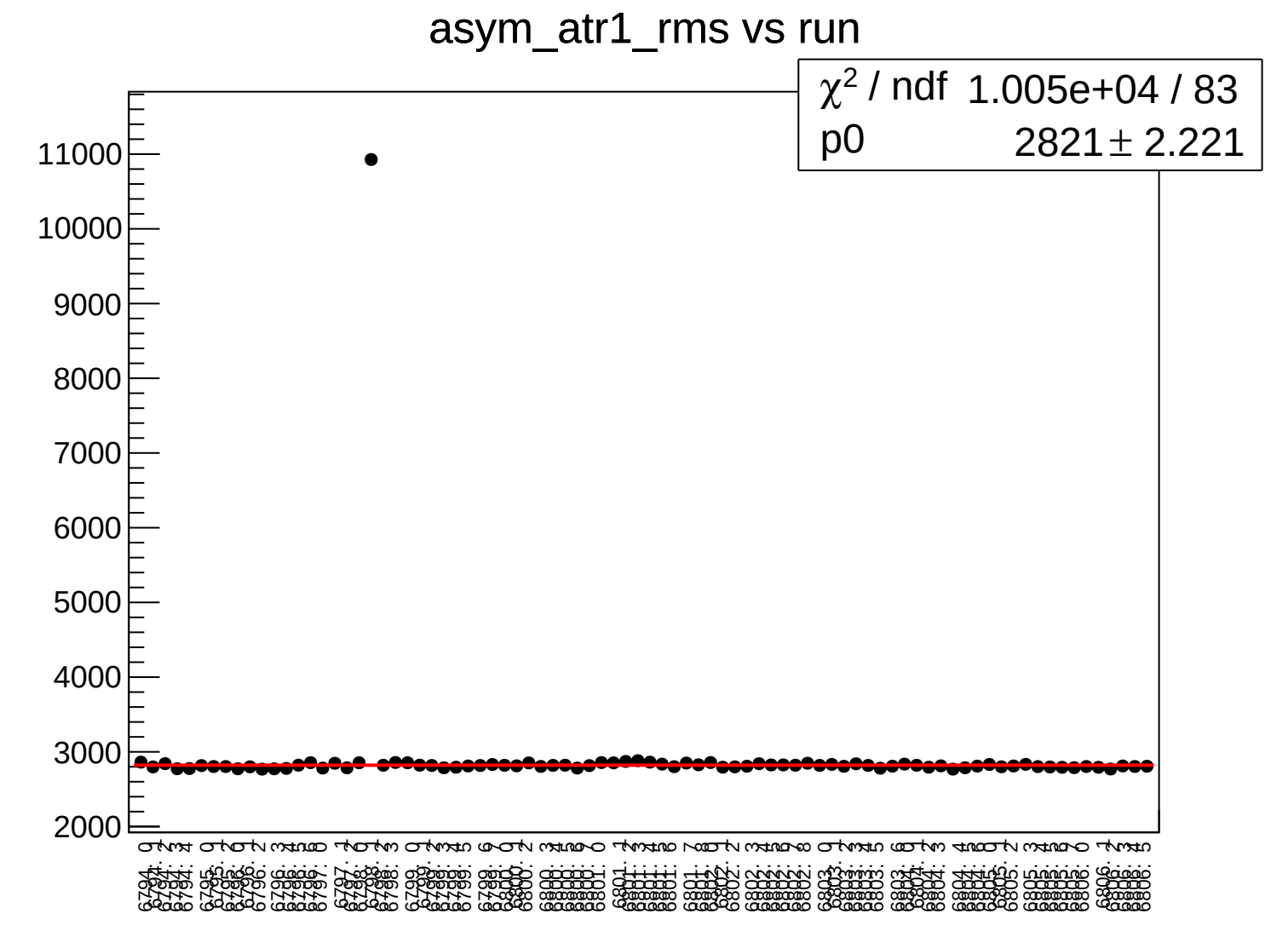

asym_atr1_correction_mean vs run
χ² / ndf 85.73 / 83
p0 98.4 ± 766.4
pull
Entries 84
Mean −9.311
Std Dev 76.61

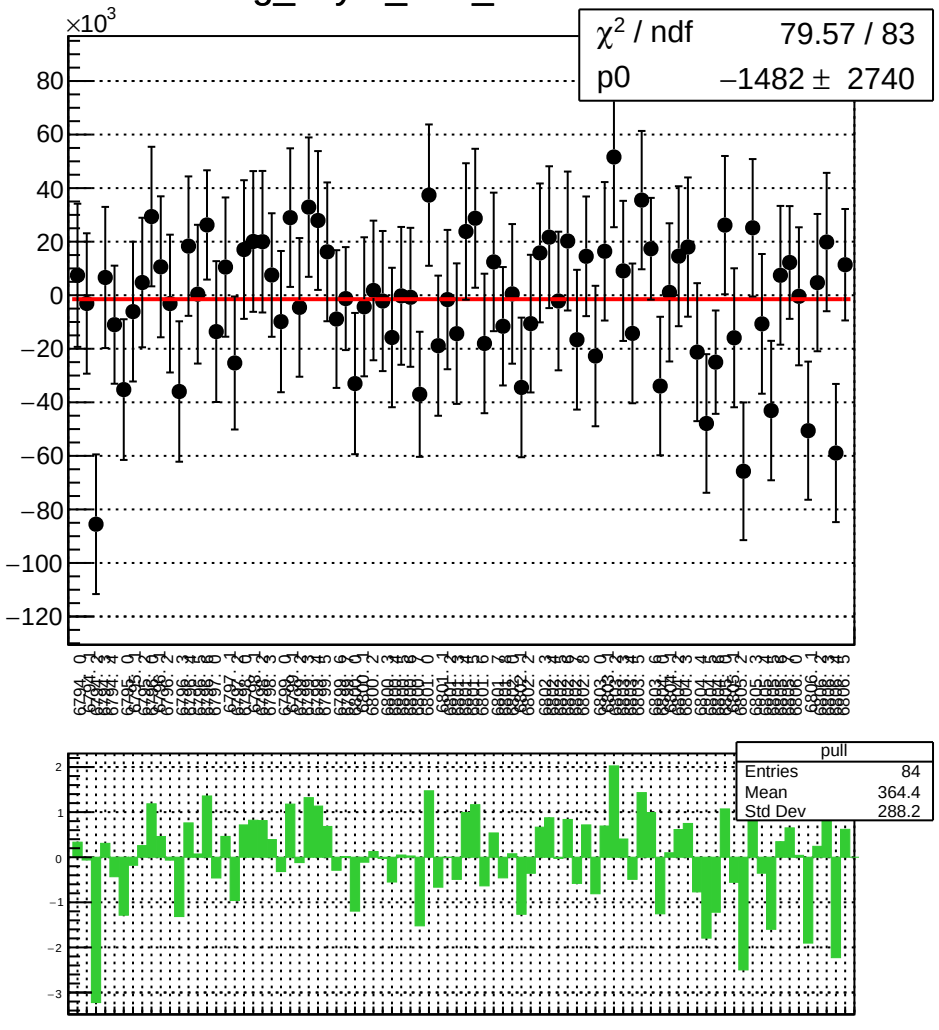

pull1D
Entries 84
Mean −0.01905
Std Dev 1.01

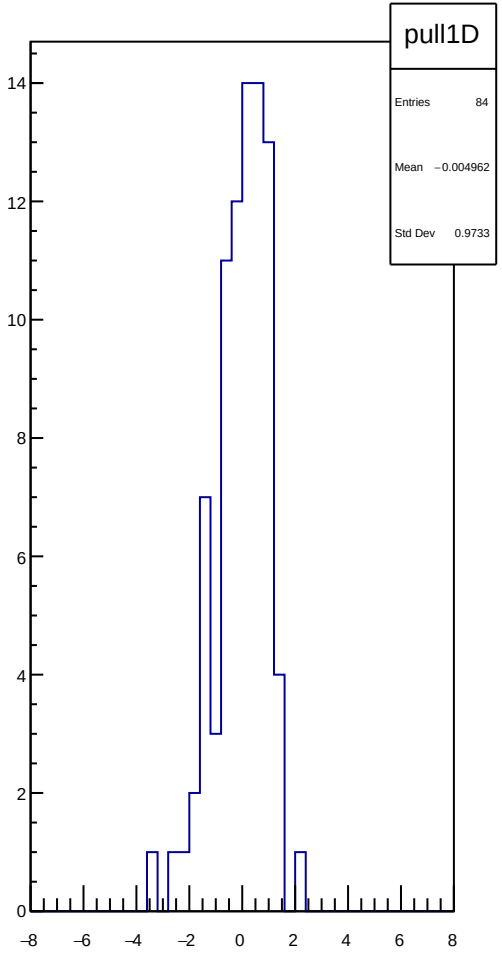

asym_atr1_correction_rms vs run
χ^2 / ndf 1.371e+04 / 83
p0 687.7 ± 0.542
900
850
800
750
700
650
600
550

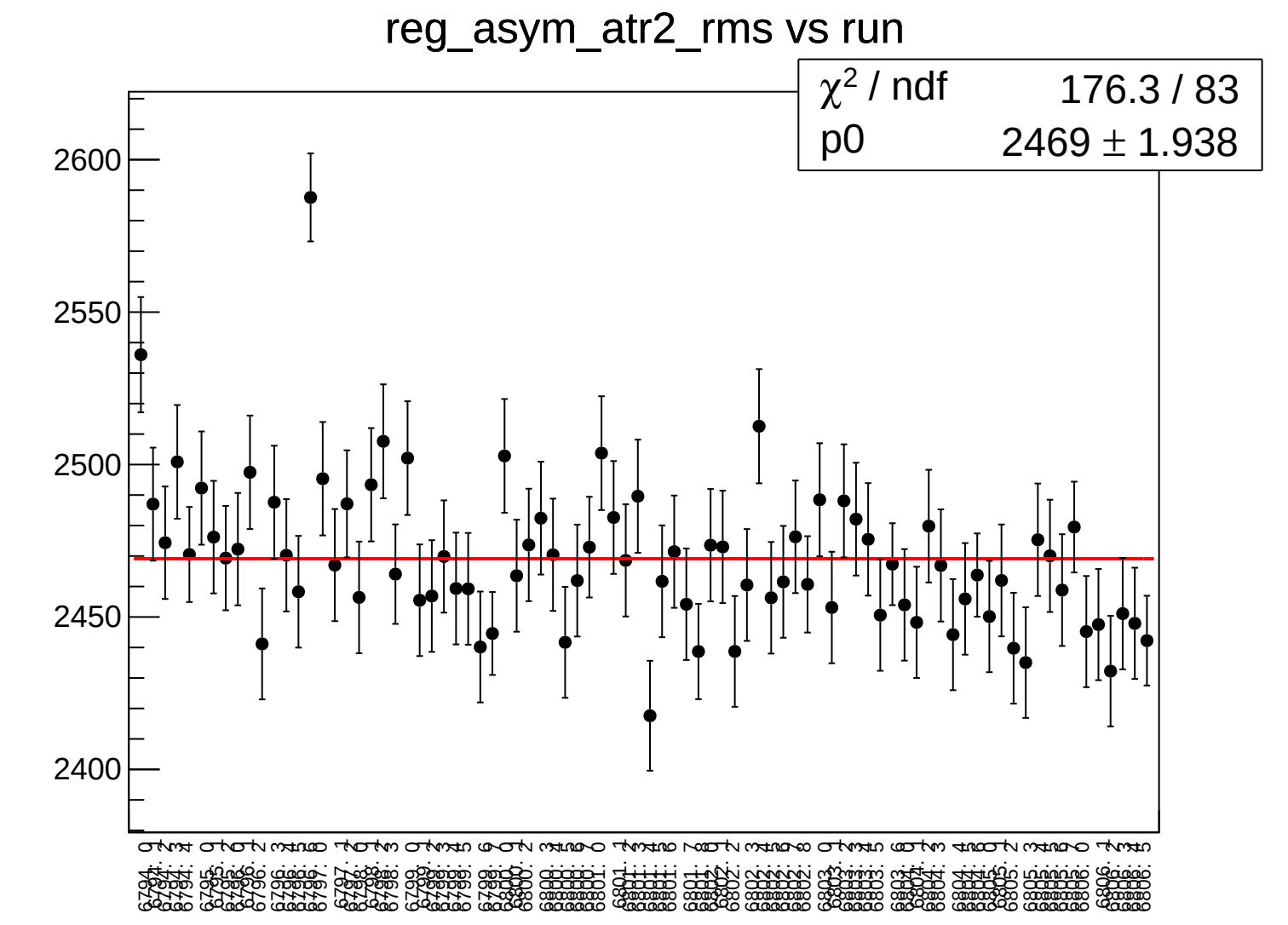

asym_atr1_mean vs run
×10^3
χ^2 / ndf 87.3 / 83
p0 4147 ± 3141
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 96.02
Std Dev 34.91
2
1
0
−1
−2

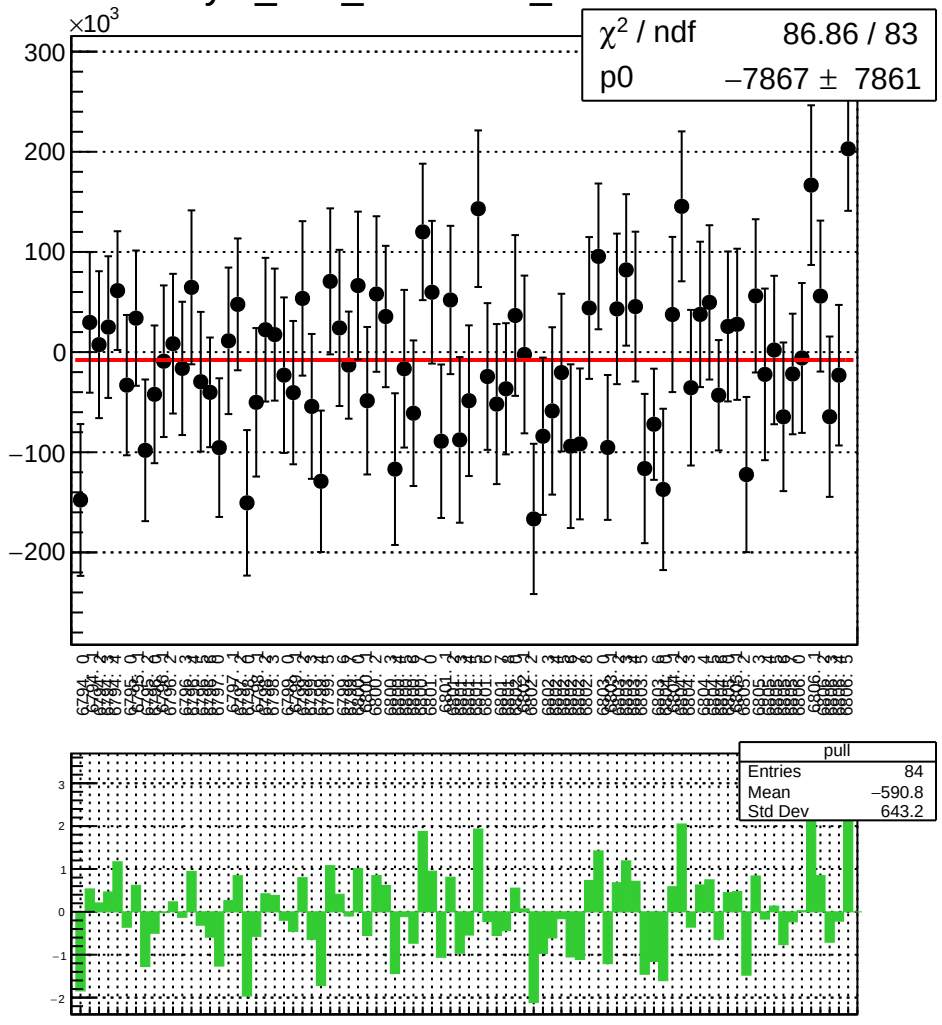

pull1D
Entries 84
Mean −0.01388
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

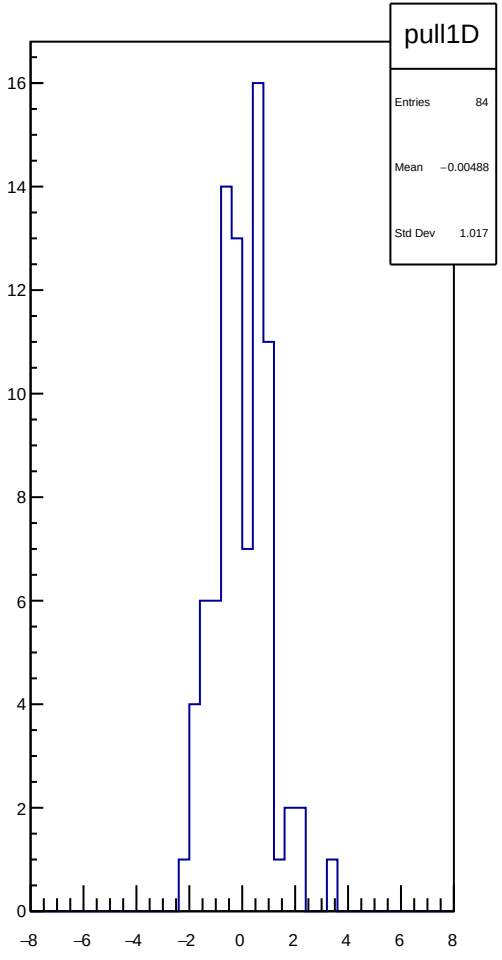

asym_atr1_rms vs run
χ^2 / ndf 1.005e+04 / 83
p0 2821 ± 2.221
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

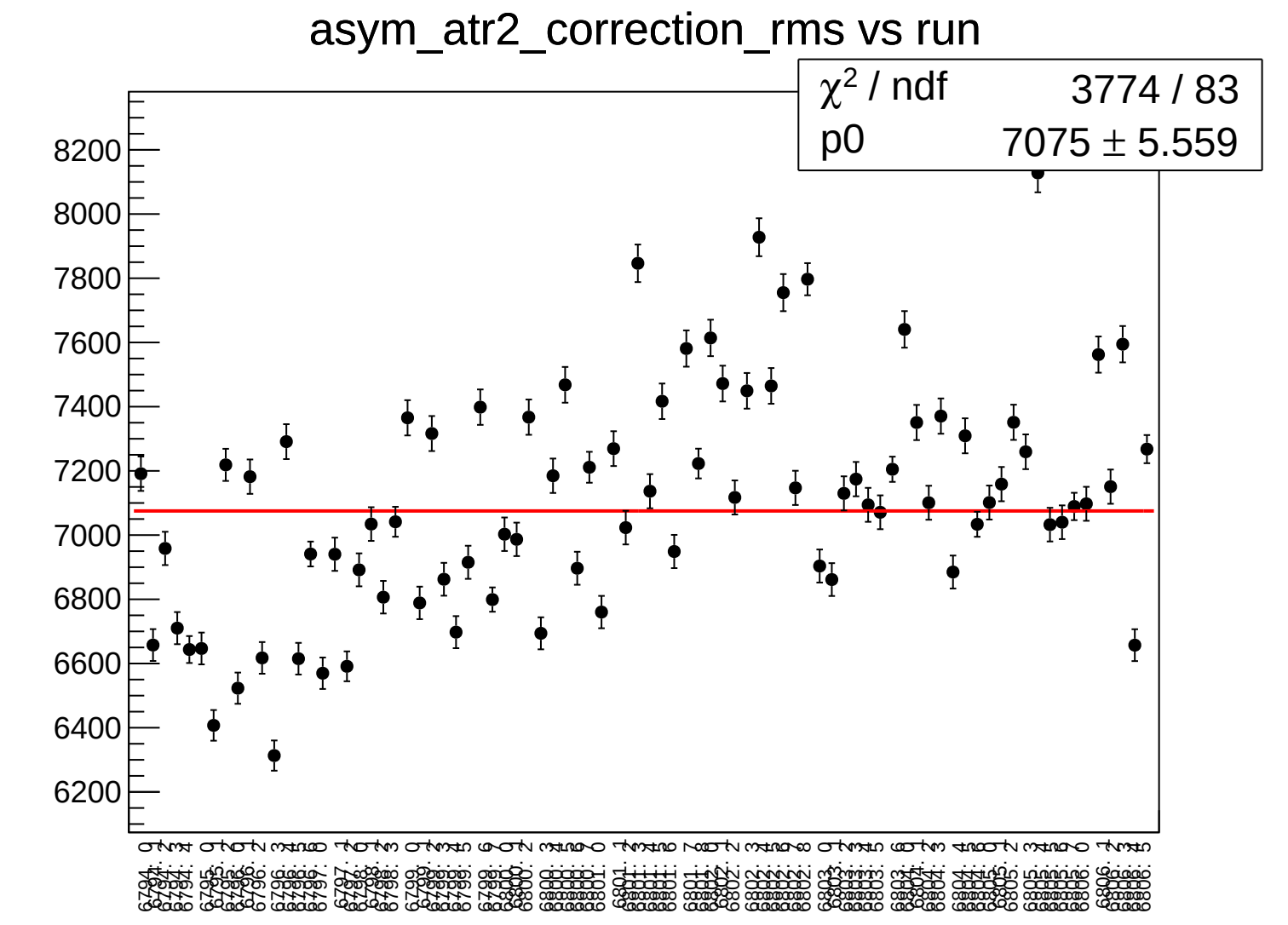

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 79.57 / 83
p0 −1482 ± 2740
pull
Entries 84
Mean 364.4
Std Dev 288.2

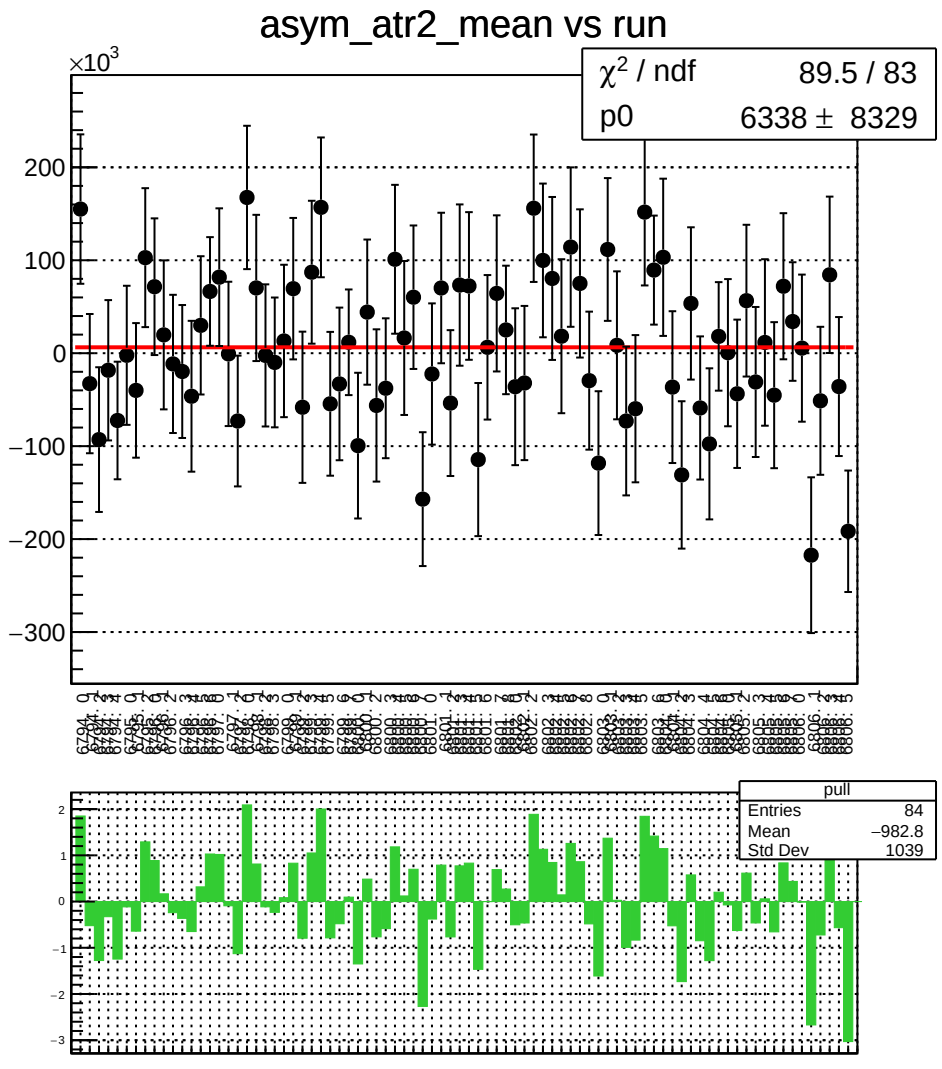

pull1D
Entries 84
Mean −0.004962
Std Dev 0.9733

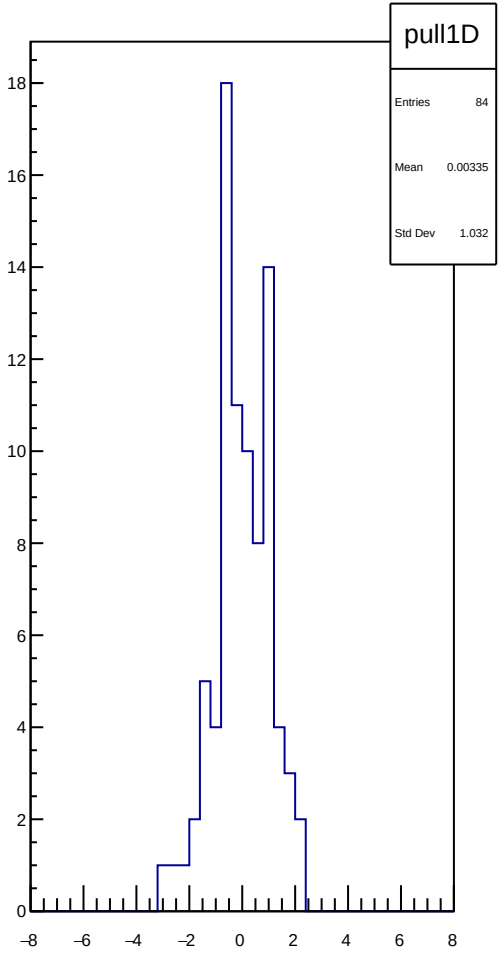

reg_asym_atr2_rms vs run
χ^2 / ndf 176.3 / 83
p0 2469 ± 1.938
2600
2550
2500
2450
2400

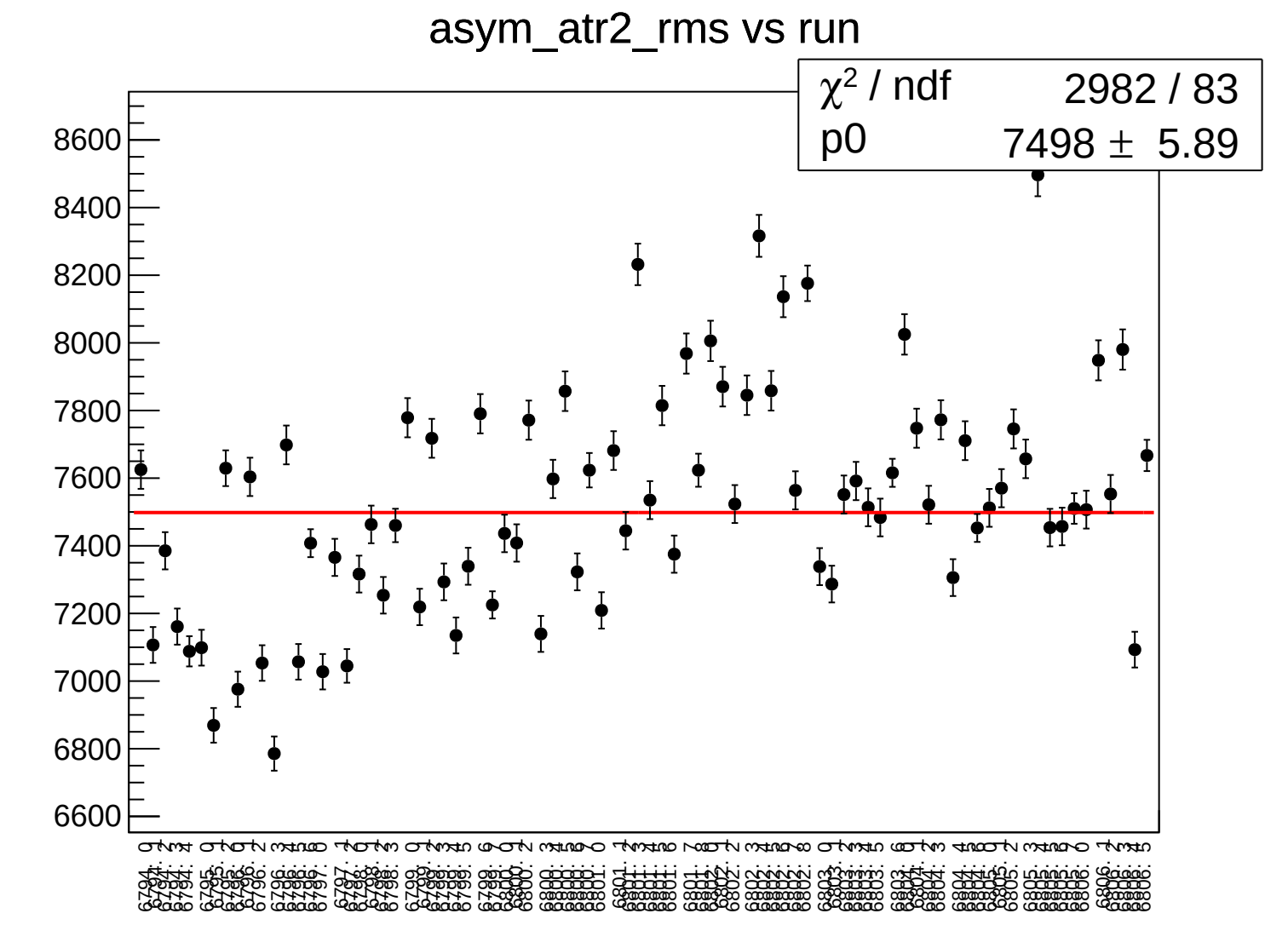

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 86.86 / 83
p0 −7867 ± 7861
300
200
100
0
−100
−200
pull
Entries 84
Mean −590.8
Std Dev 643.2
3
2
1
0
−1
−2

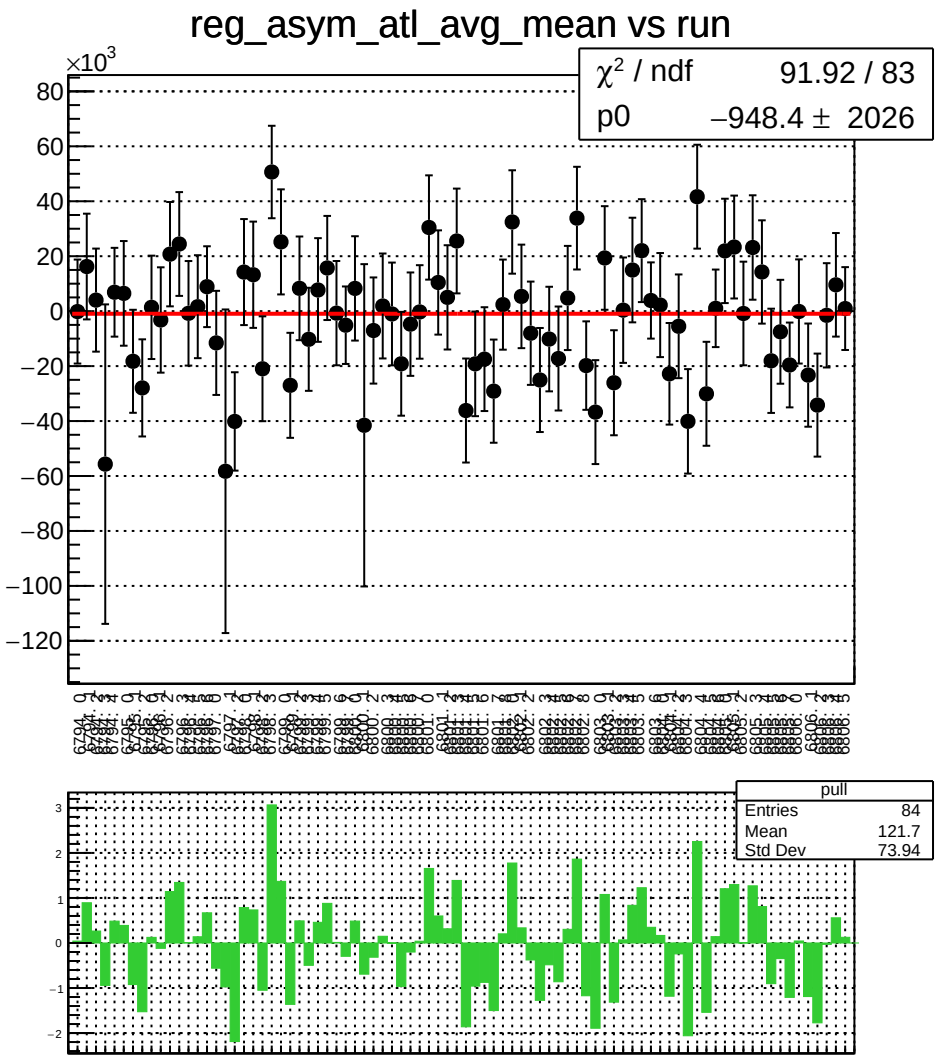

pull1D
Entries 84
Mean −0.00488
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

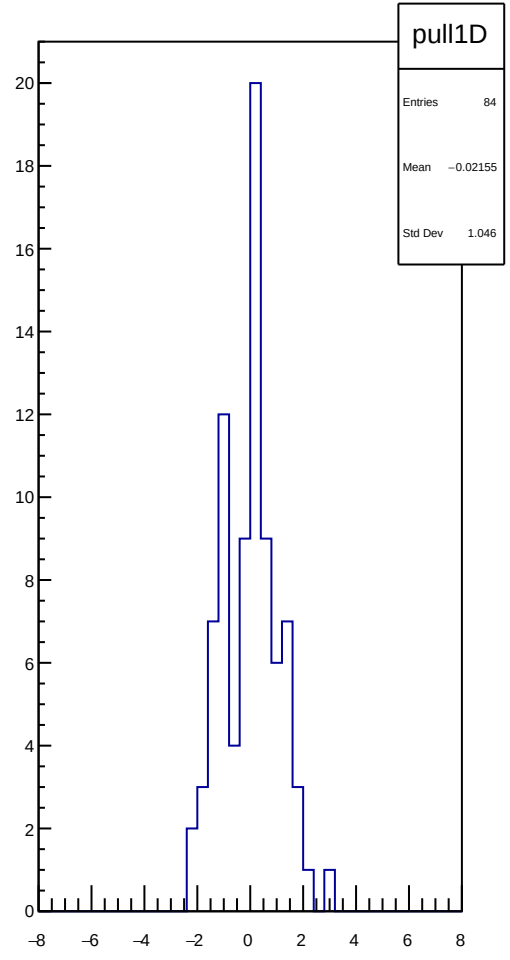

asym_atr2_correction_rms vs run
χ² / ndf 3774 / 83
p0 7075 ± 5.559
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

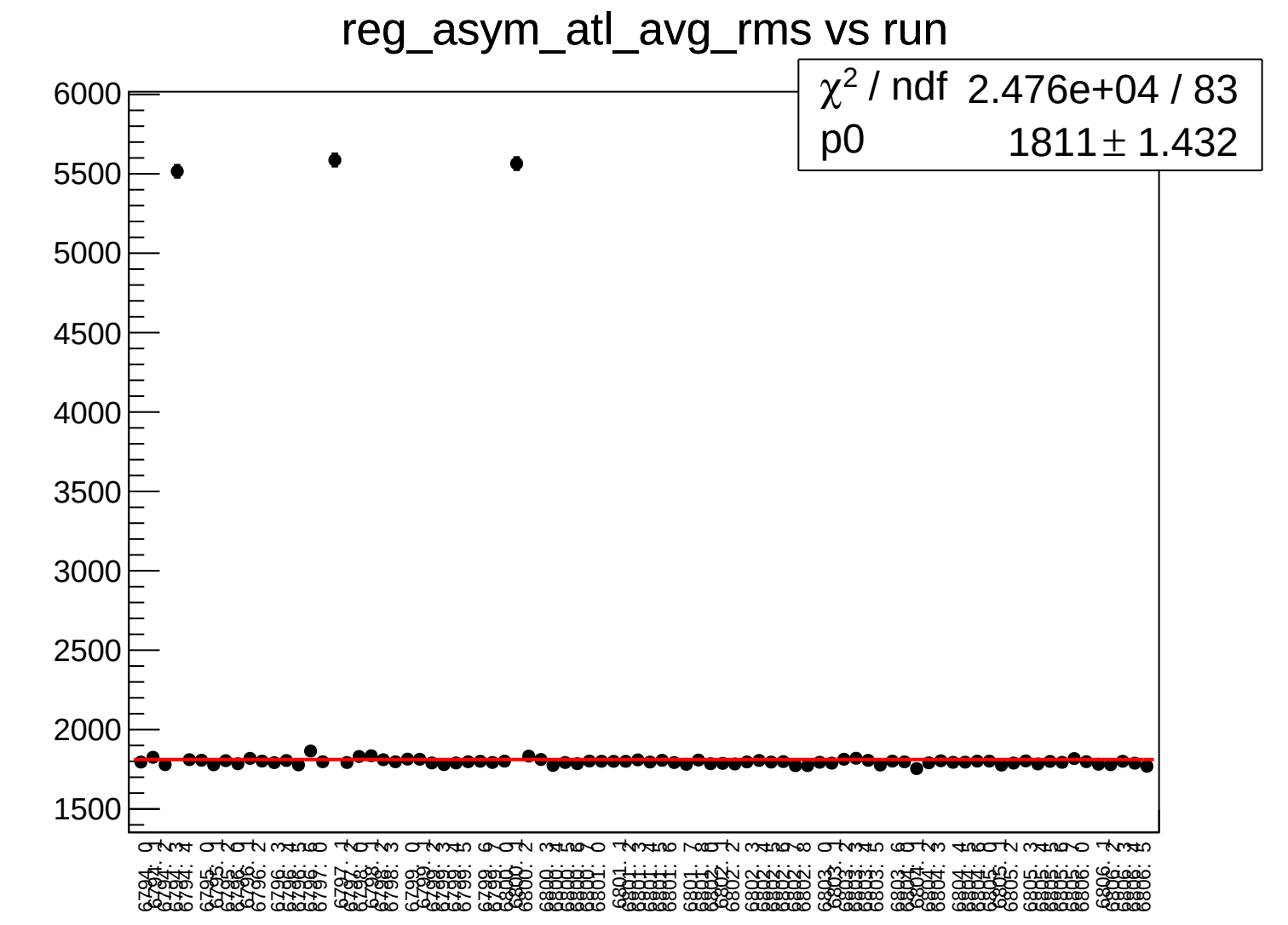

asym_atr2_mean vs run
×10^3
χ^2 / ndf 89.5 / 83
p0 6338 ± 8329
200
100
0
−100
−200
−300
pull
Entries 84
Mean −982.8
Std Dev 1039
2
1
0
−1
−2
−3

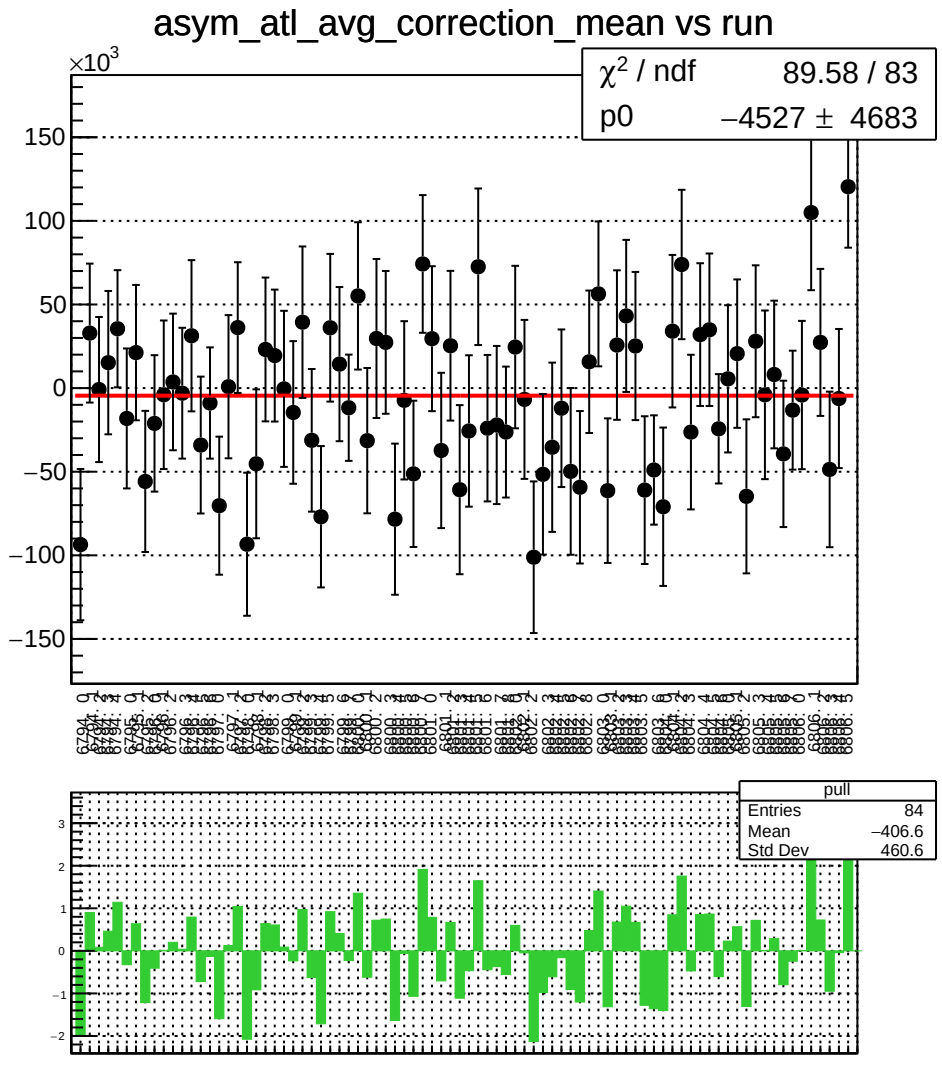

pull1D
Entries 84
Mean 0.00335
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

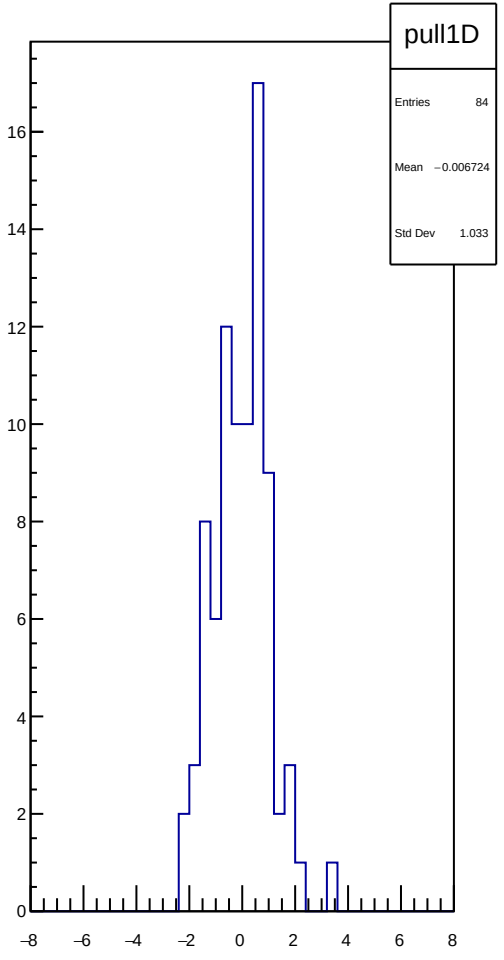

asym_atr2_rms vs run
χ² / ndf 2982 / 83
p0 7498 ± 5.89
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

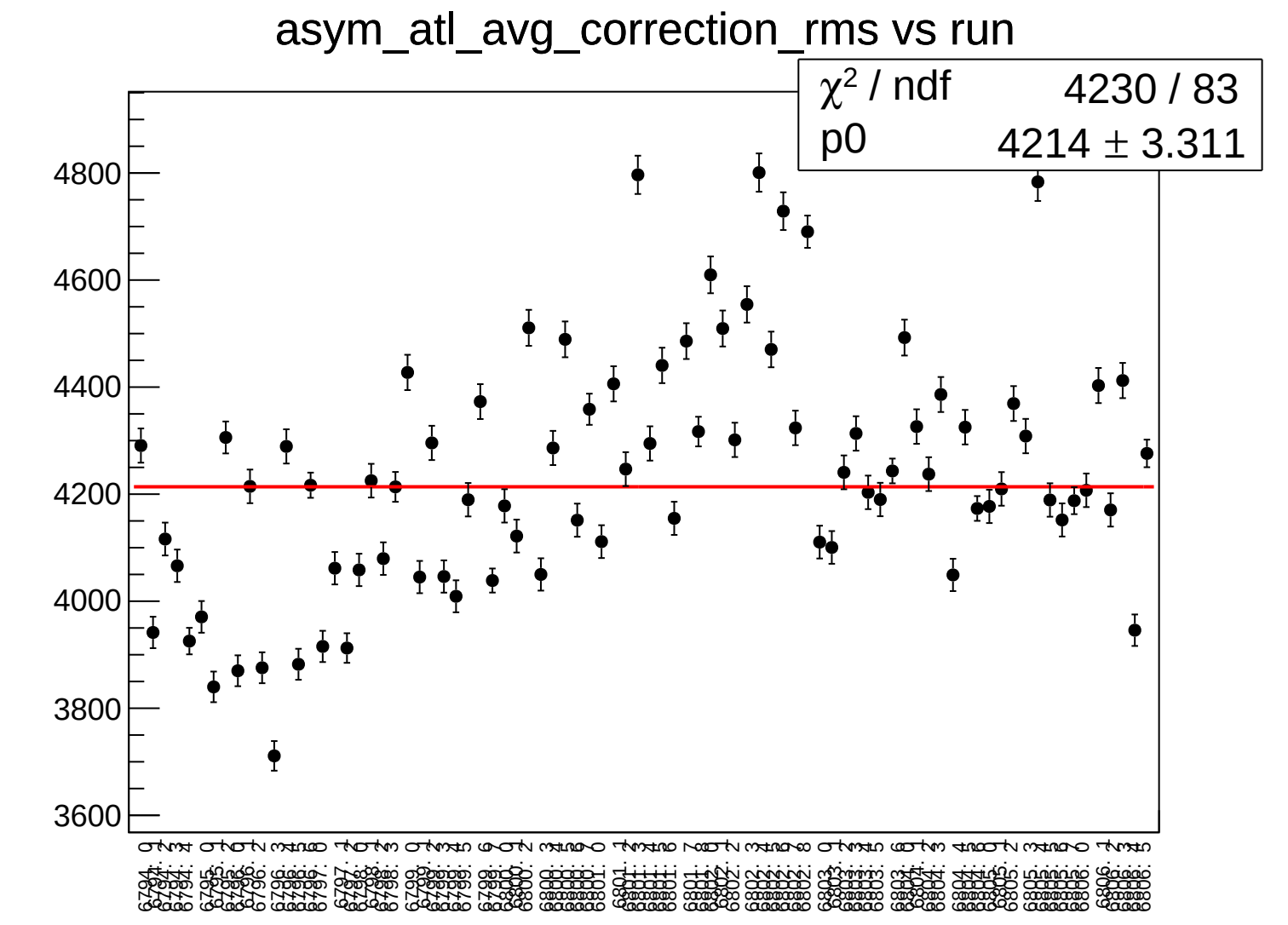

reg_asym_atl_avg_mean vs run
×10^3
χ² / ndf 91.92 / 83
p0 −948.4 ± 2026
pull
Entries 84
Mean 121.7
Std Dev 73.94

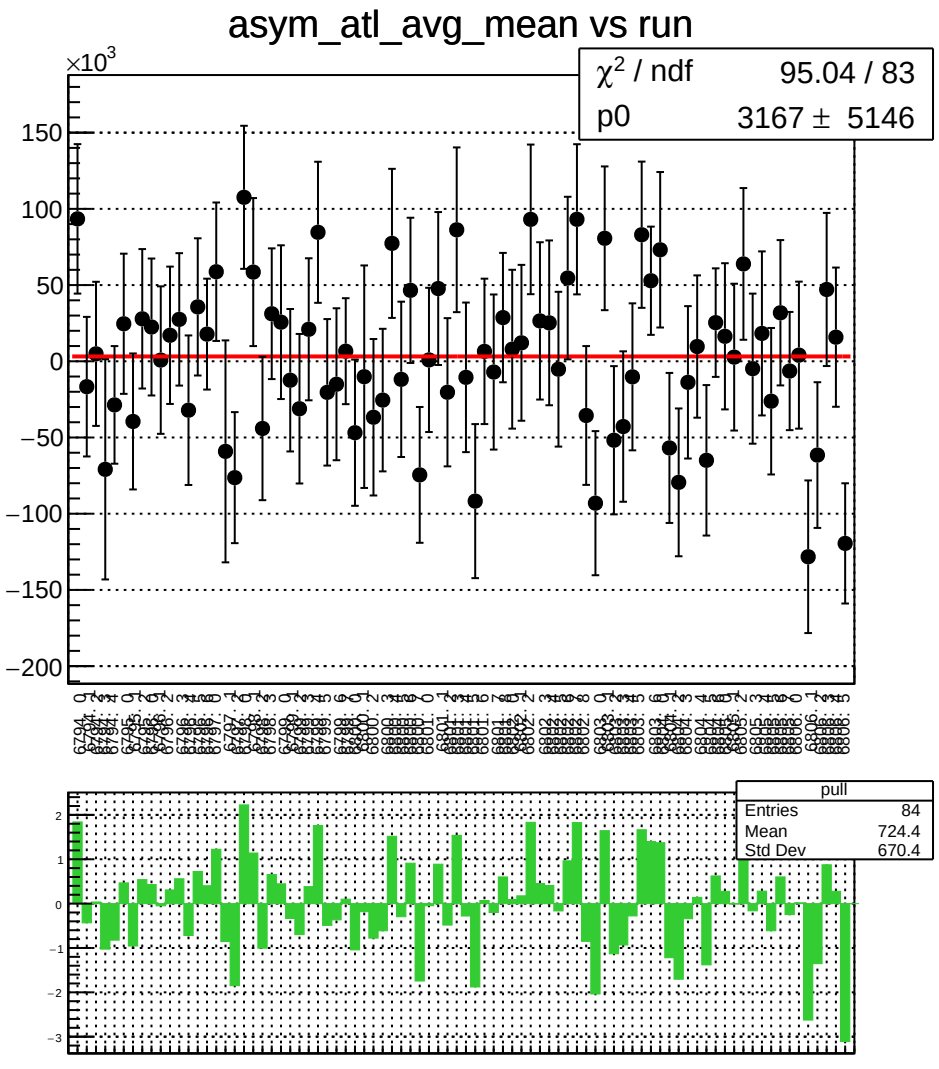

pull1D
Entries 84
Mean −0.02155
Std Dev 1.046

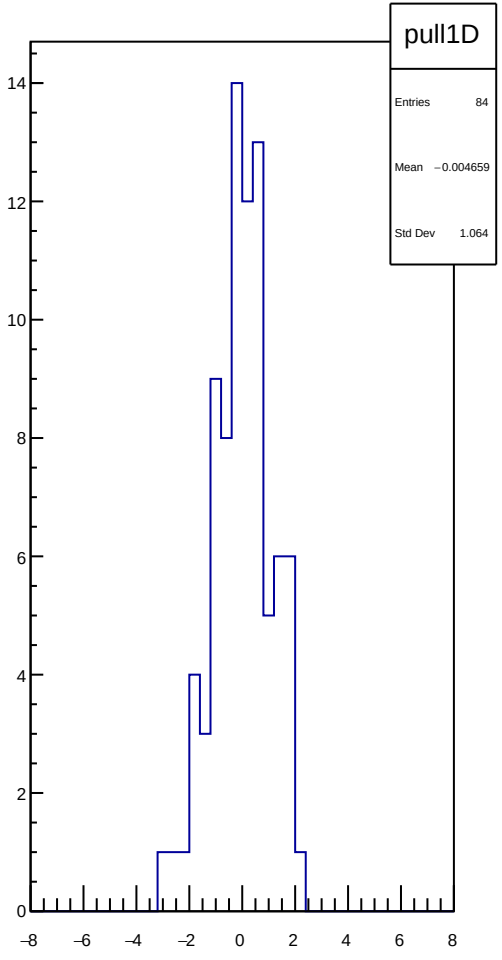

reg_asym_atl_avg_rms vs run
χ^2 / ndf 2.476e+04 / 83
p0 1811 ± 1.432
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

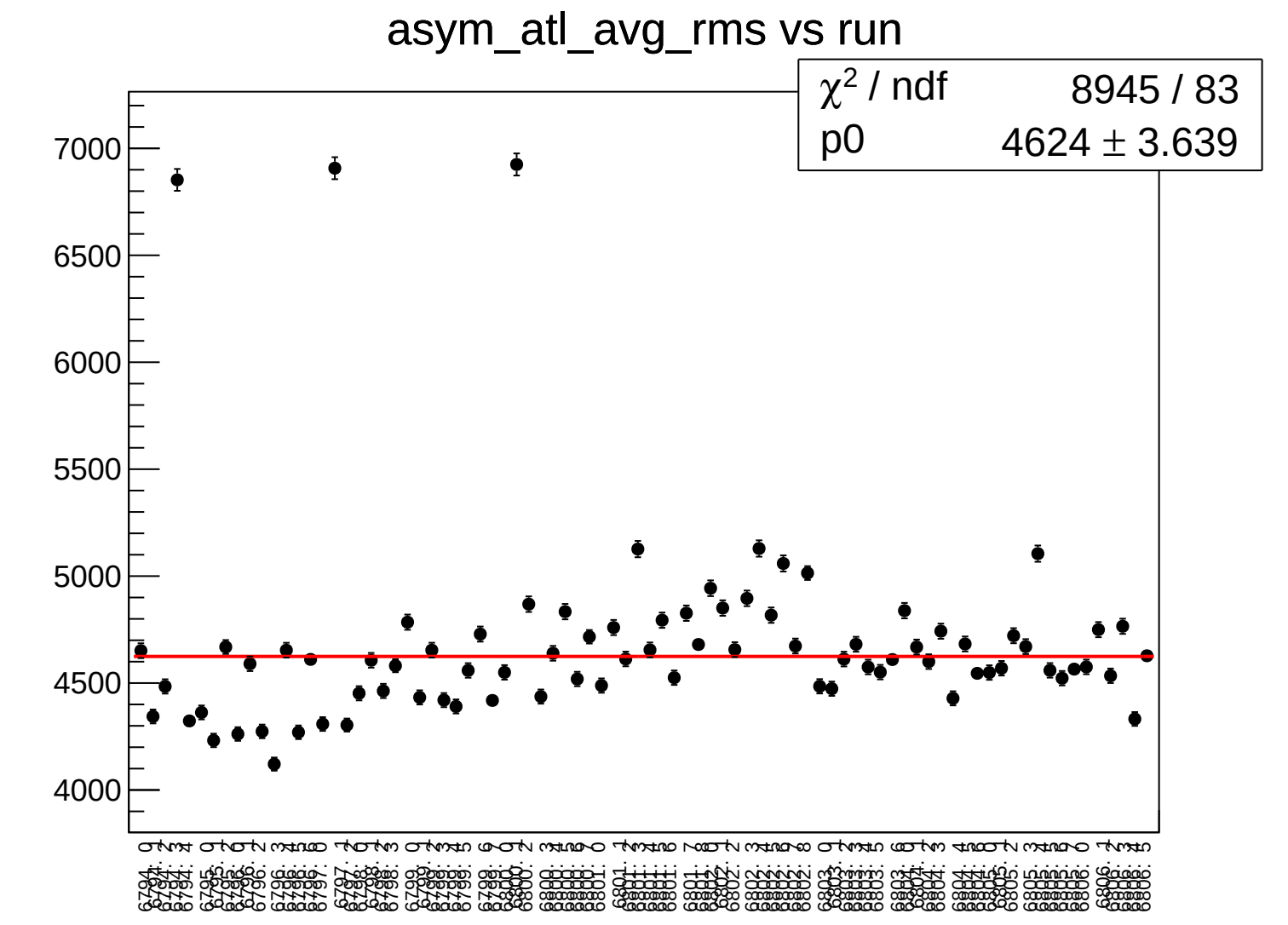

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 89.58 / 83
p0 −4527 ± 4683
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −406.6
Std Dev 460.6
3
2
1
0
−1
−2

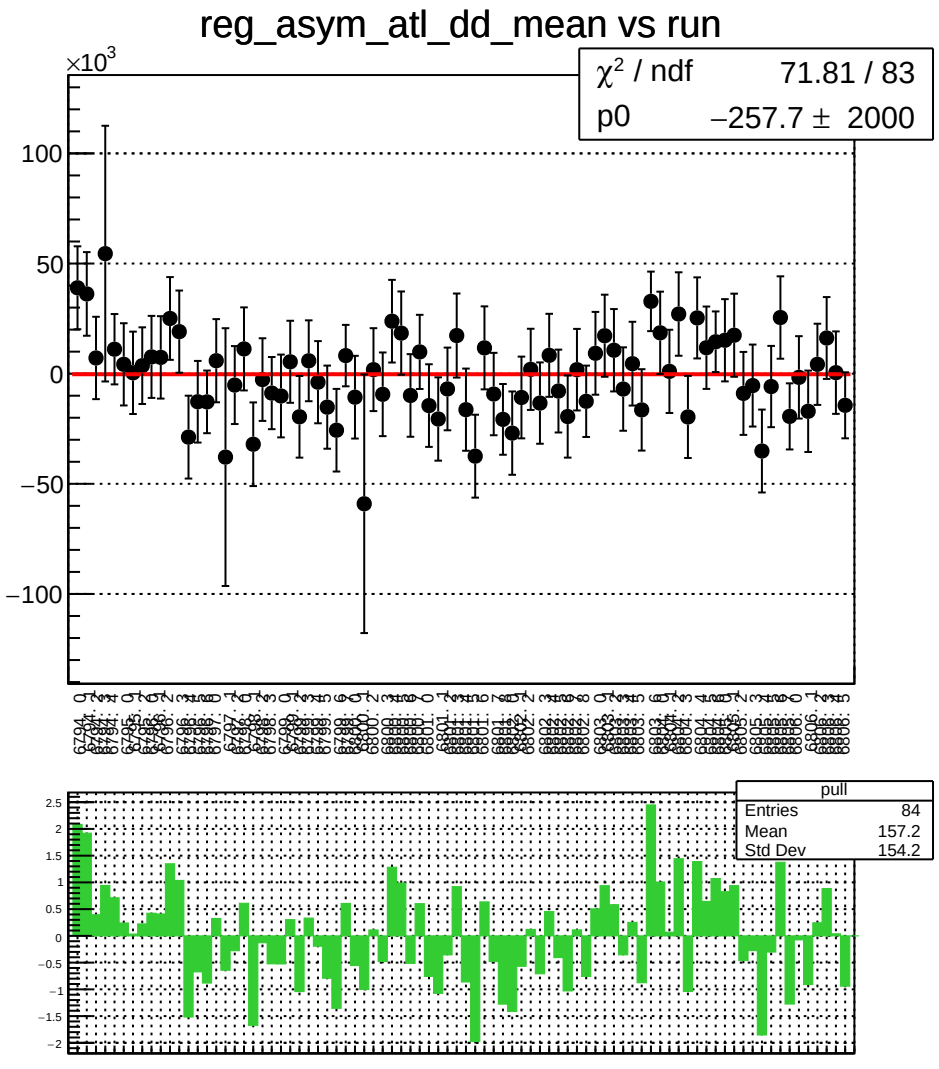

pull1D
Entries 84
Mean −0.006724
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

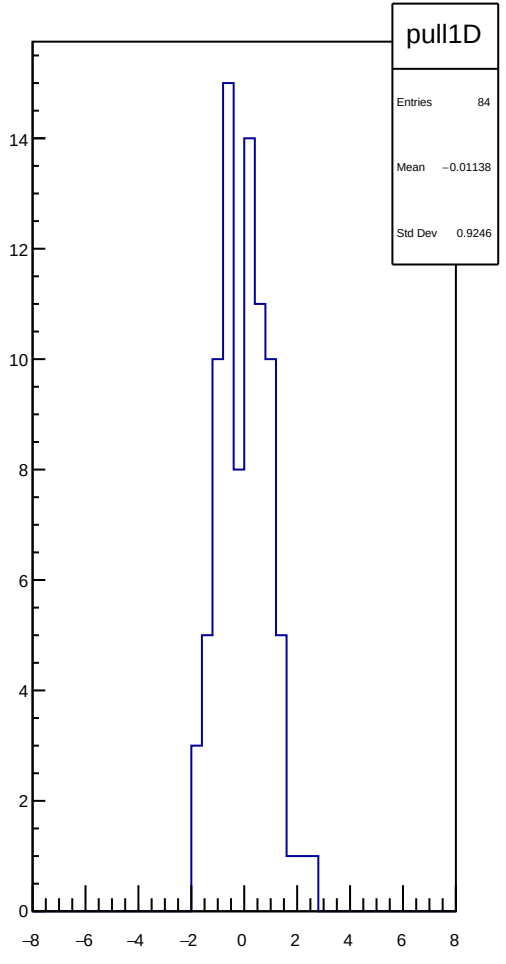

asym_atl_avg_correction_rms vs run
χ² / ndf 4230 / 83
p0 4214 ± 3.311
4800
4600
4400
4200
4000
3800
3600

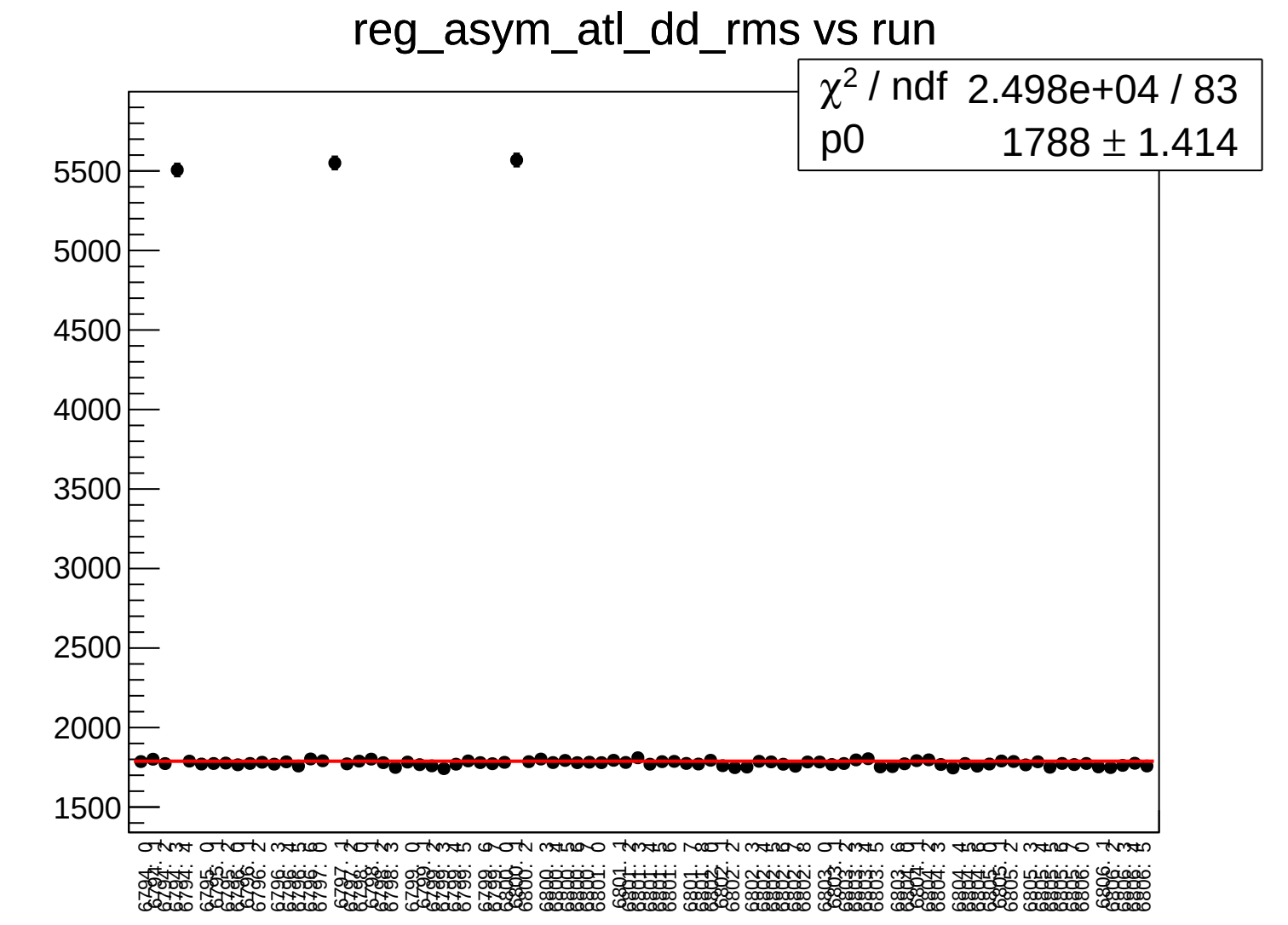

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 95.04 / 83
p0 3167 ± 5146
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 724.4
Std Dev 670.4
2
1
0
−1
−2
−3

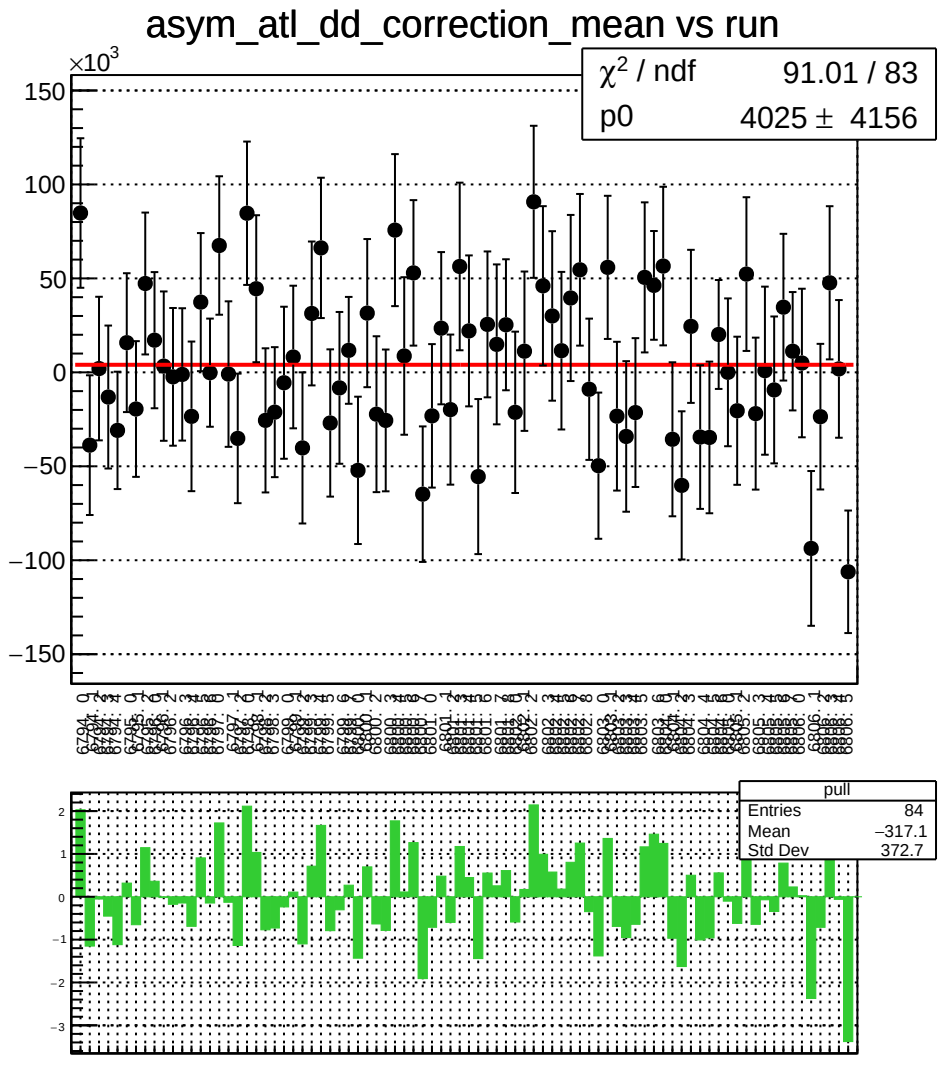

pull1D
Entries 84
Mean −0.004659
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

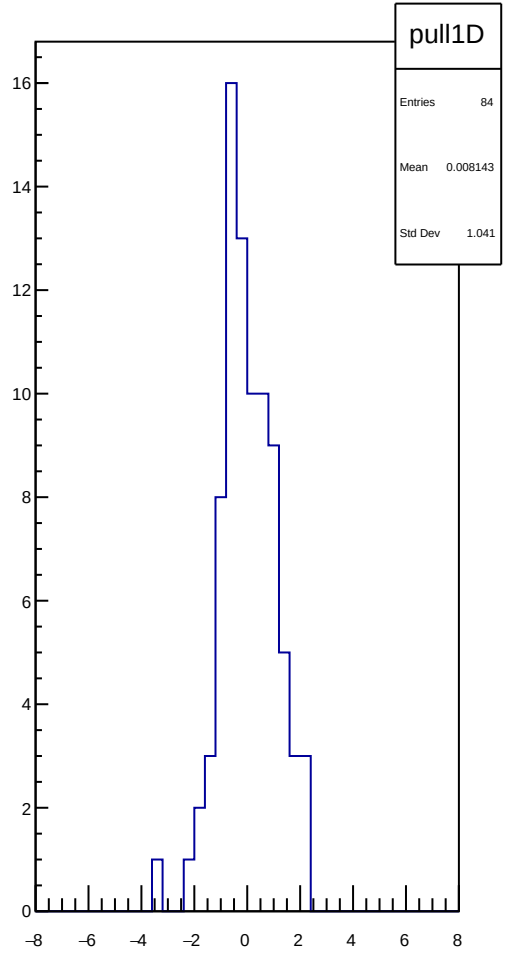

asym_atl_avg_rms vs run
χ^2 / ndf 8945 / 83
p0 4624 ± 3.639
7000
6500
6000
5500
5000
4500
4000

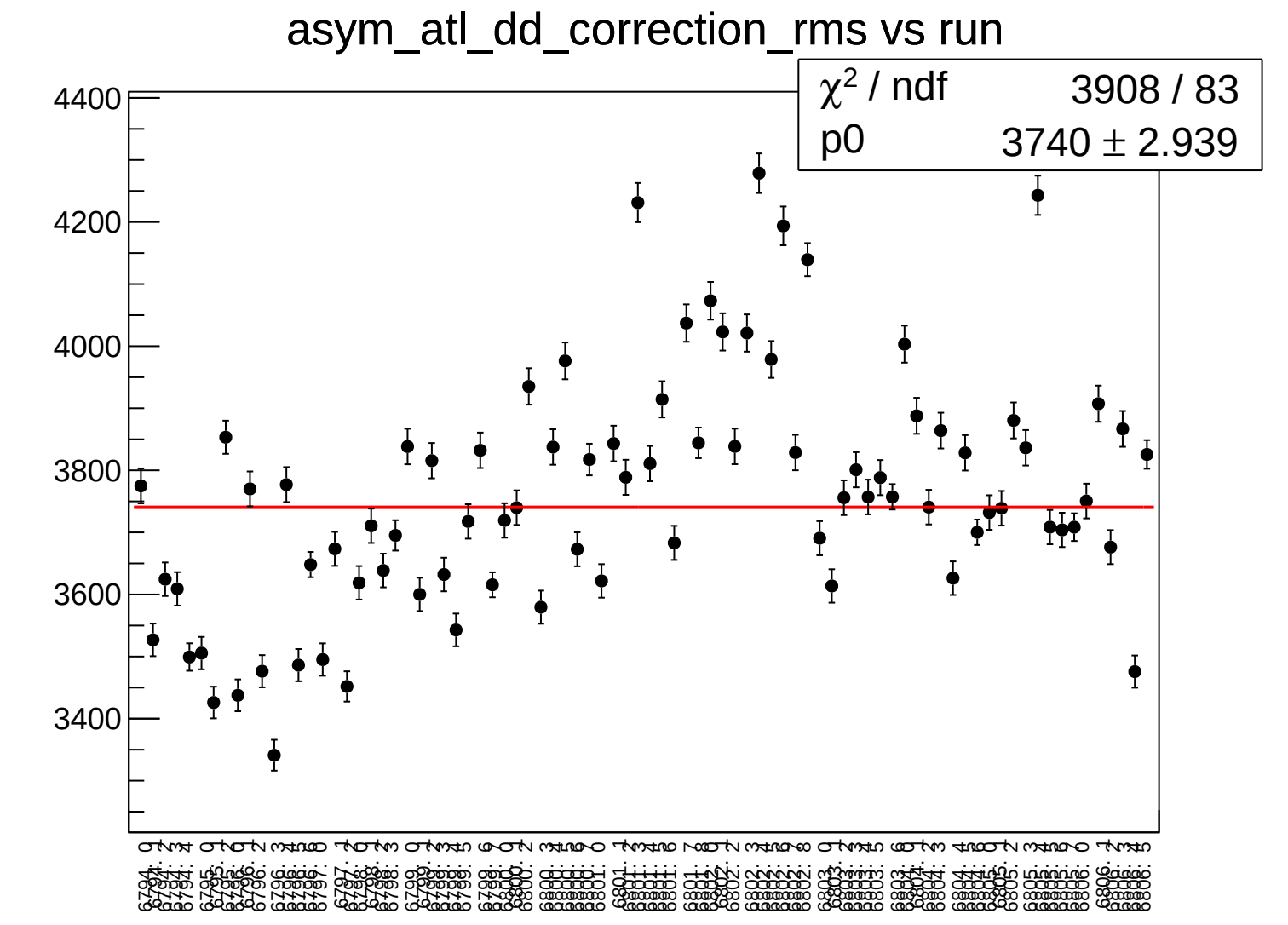

reg_asym_atl_dd_mean vs run
χ² / ndf 71.81 / 83
p0 −257.7 ± 2000
×10³
100
50
0
−50
−100
pull
Entries 84
Mean 157.2
Std Dev 154.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

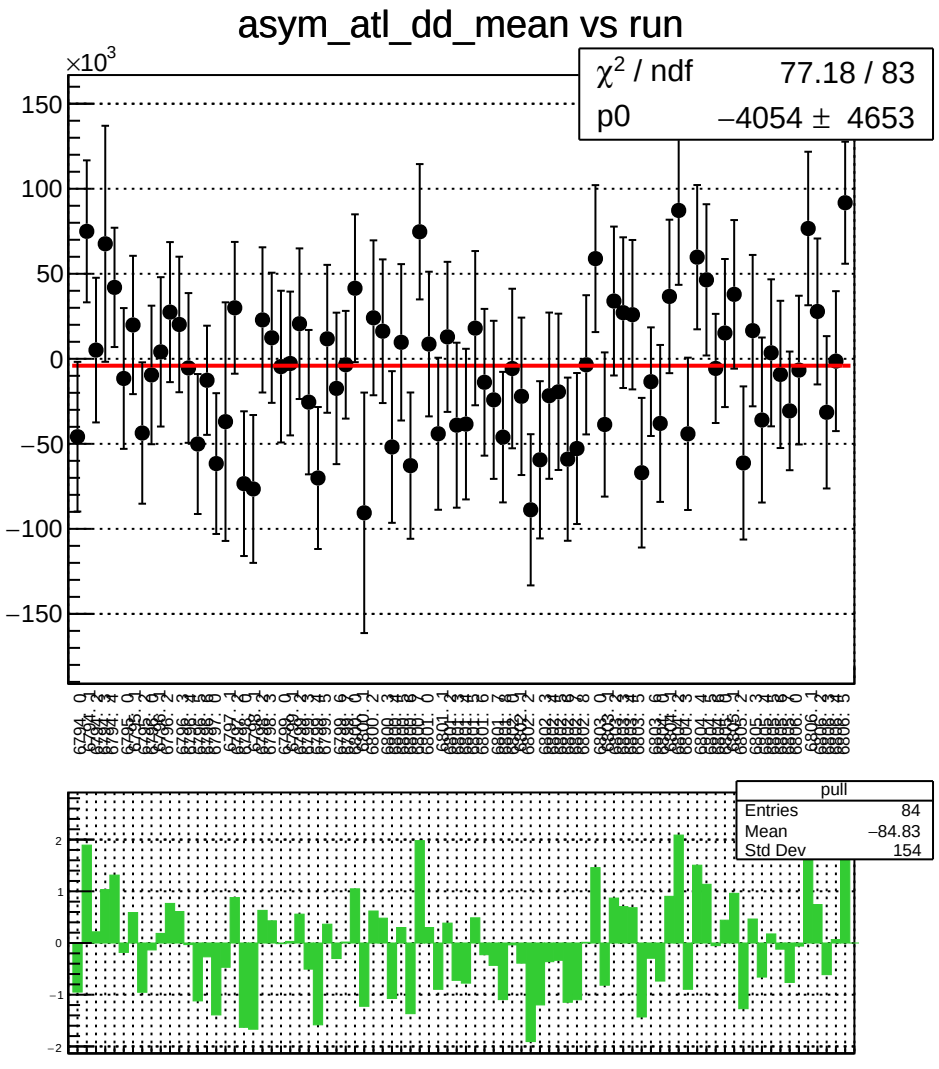

pull1D
Entries 84
Mean −0.01138
Std Dev 0.9246
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

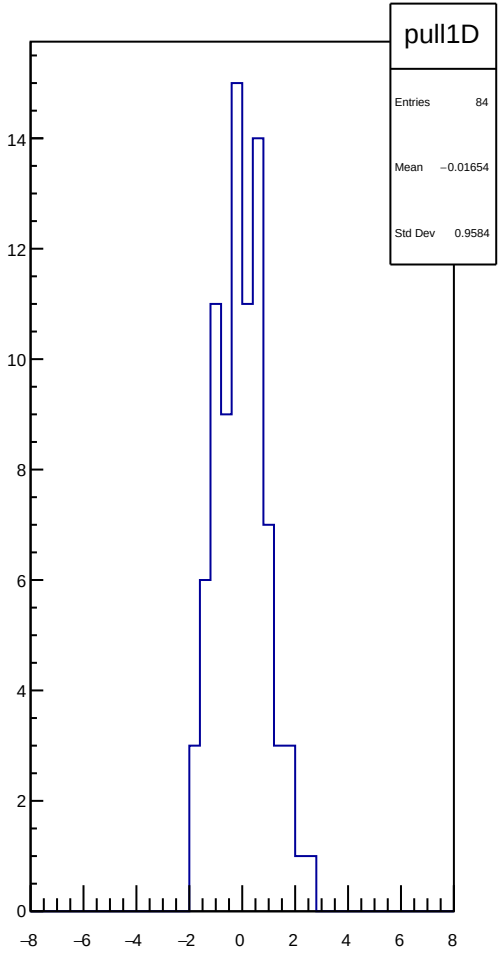

reg_asym_atl_dd_rms vs run
χ² / ndf 2.498e+04 / 83
p0 1788 ± 1.414
5500
5000
4500
4000
3500
3000
2500
2000
1500

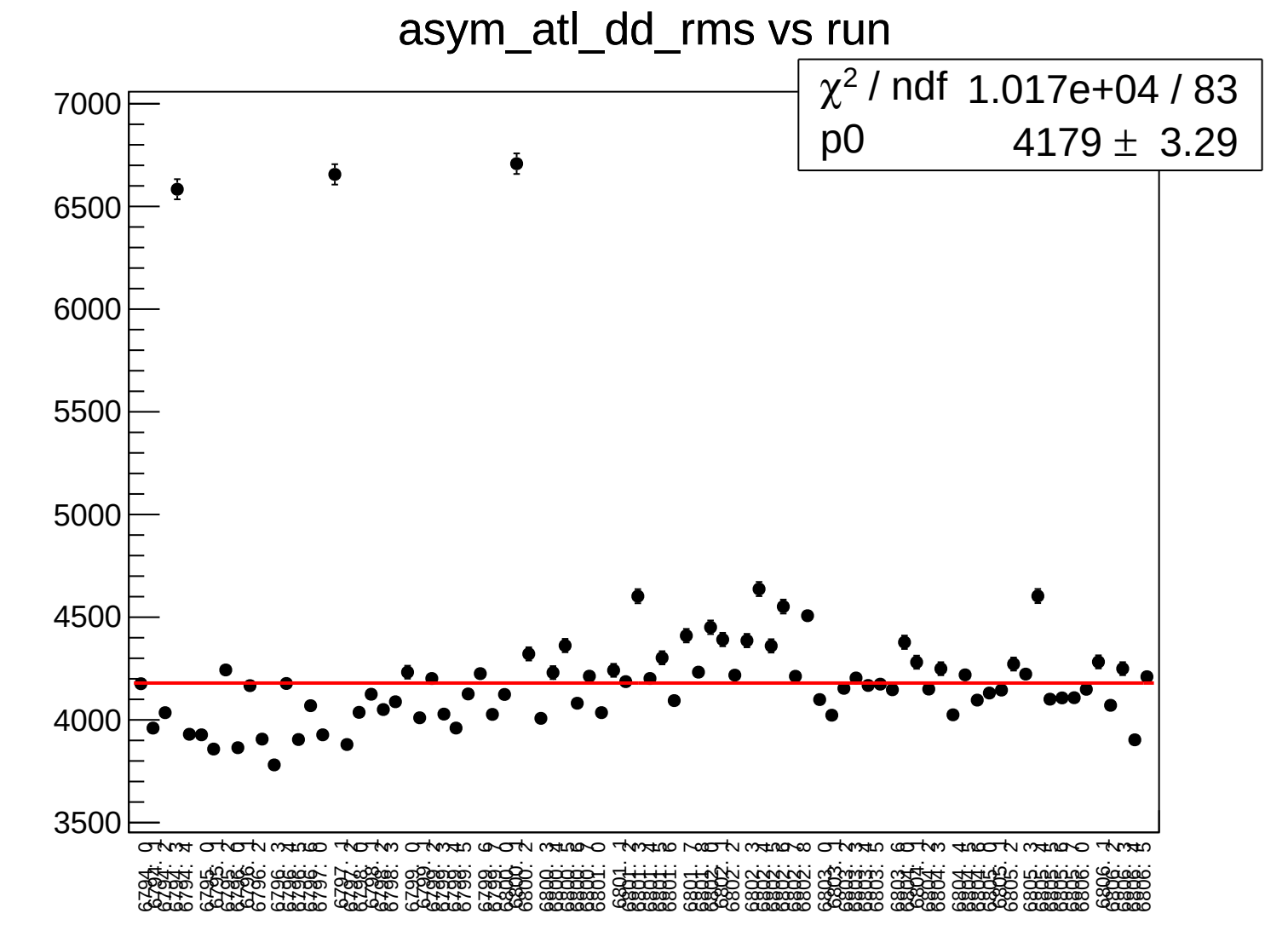

asym_atl_dd_correction_mean vs run
×10^3
χ^2 / ndf 91.01 / 83
p0 4025 ± 4156
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −317.1
Std Dev 372.7
2
1
0
−1
−2
−3

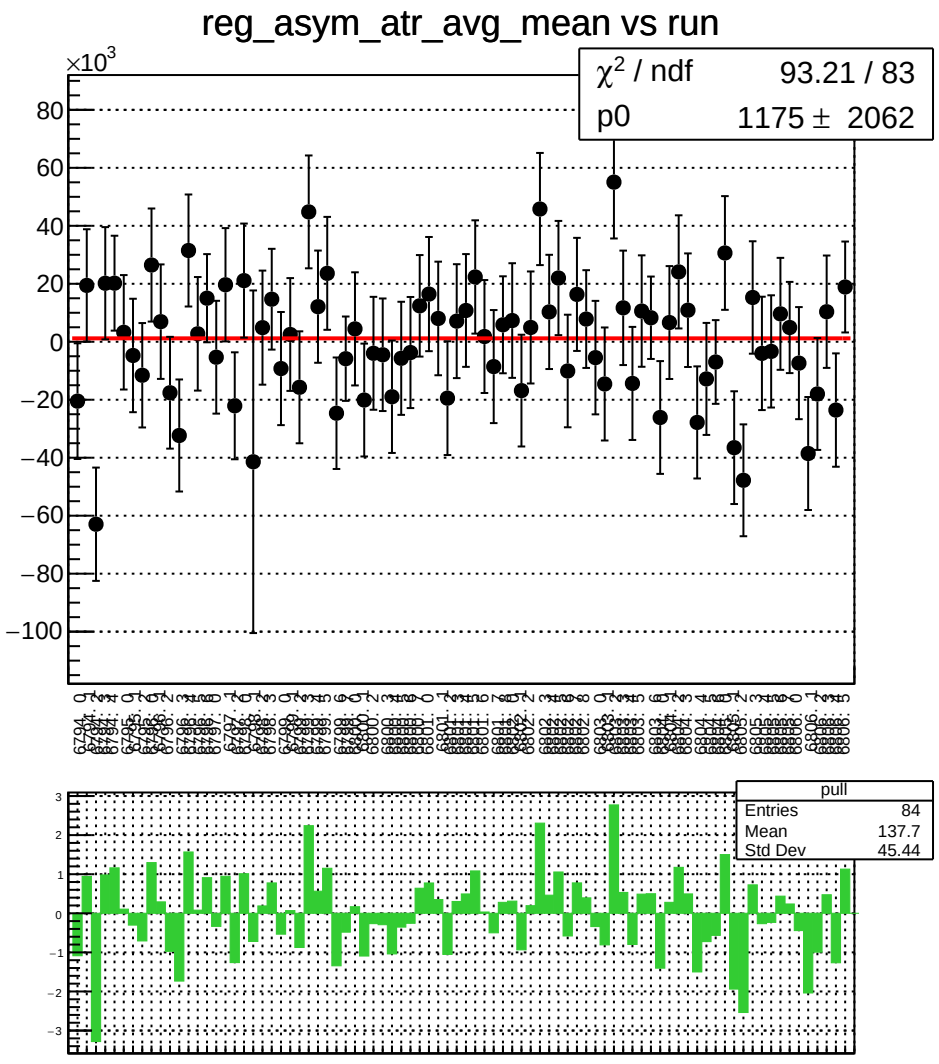

pull1D
Entries 84
Mean 0.008143
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

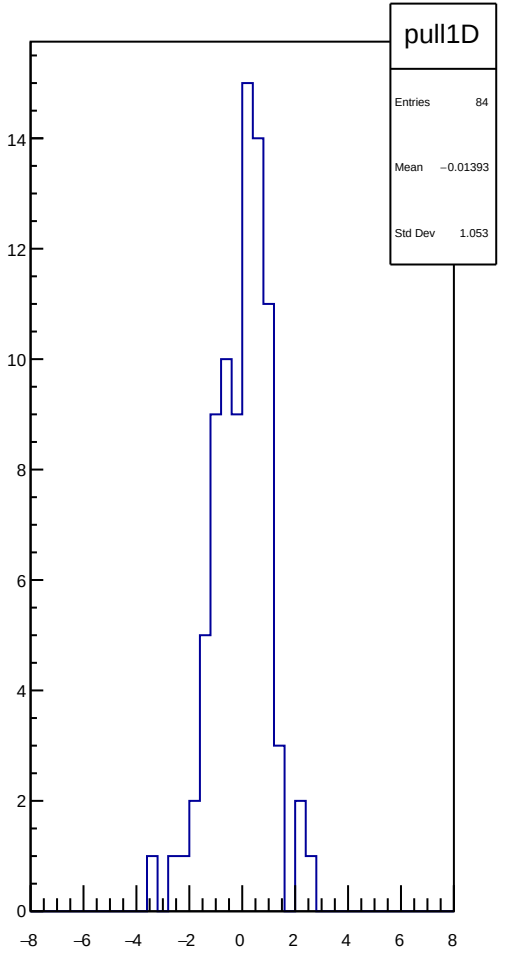

asym_atl_dd_correction_rms vs run
χ² / ndf 3908 / 83
p0 3740 ± 2.939
4400
4200
4000
3800
3600
3400

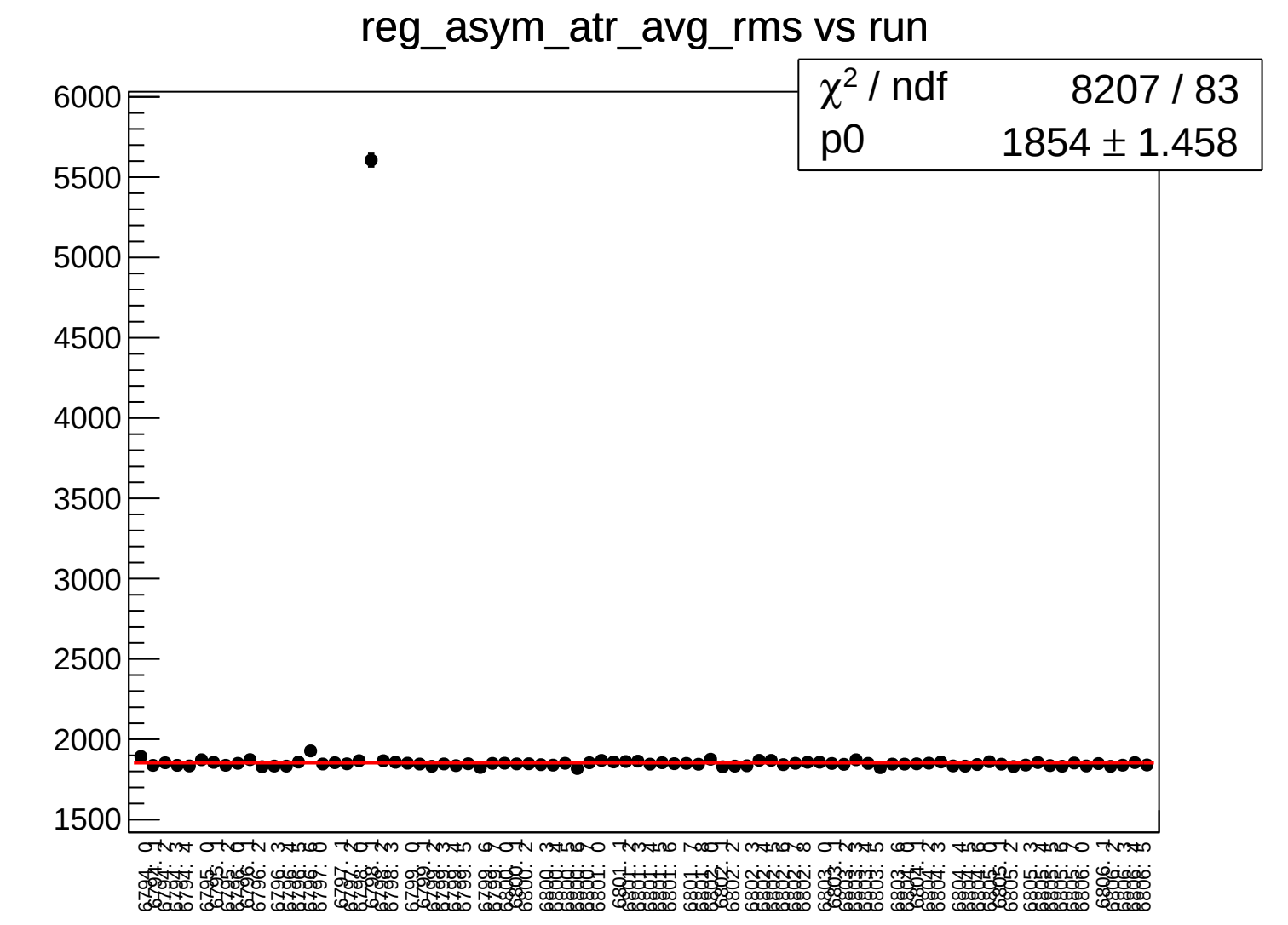

asym_atl_dd_mean vs run
×10^3
χ² / ndf 77.18 / 83
p0 −4054 ± 4653
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −84.83
Std Dev 154
2
1
0
−1
−2

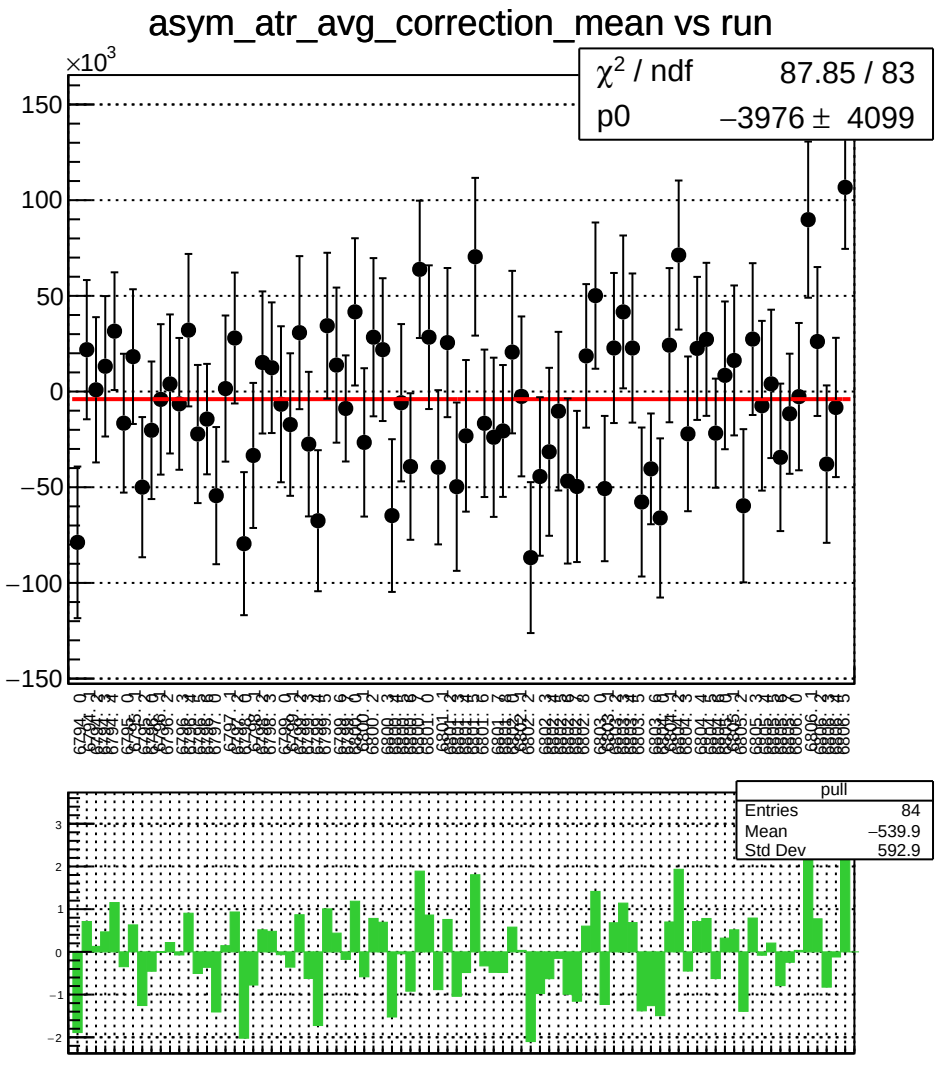

pull1D
Entries 84
Mean −0.01654
Std Dev 0.9584
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

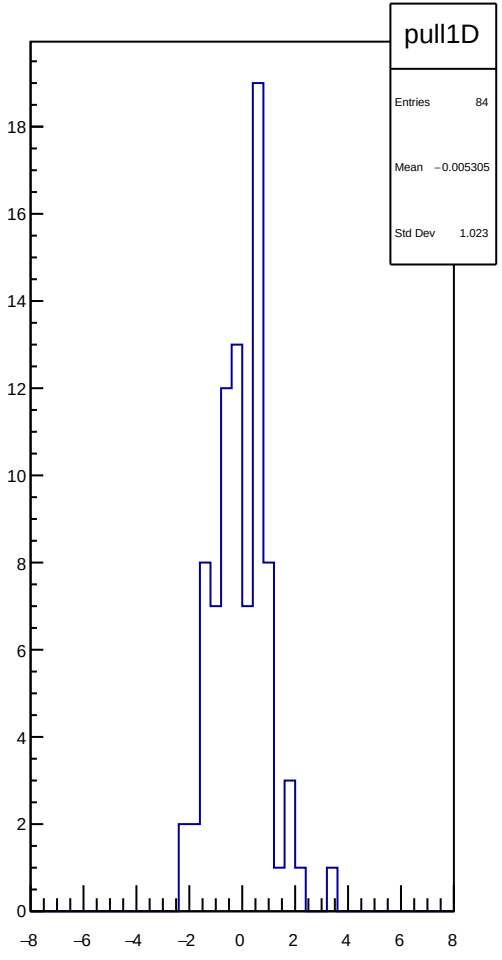

asym_atl_dd_rms vs run
χ² / ndf 1.017e+04 / 83
p0 4179 ± 3.29
7000
6500
6000
5500
5000
4500
4000
3500

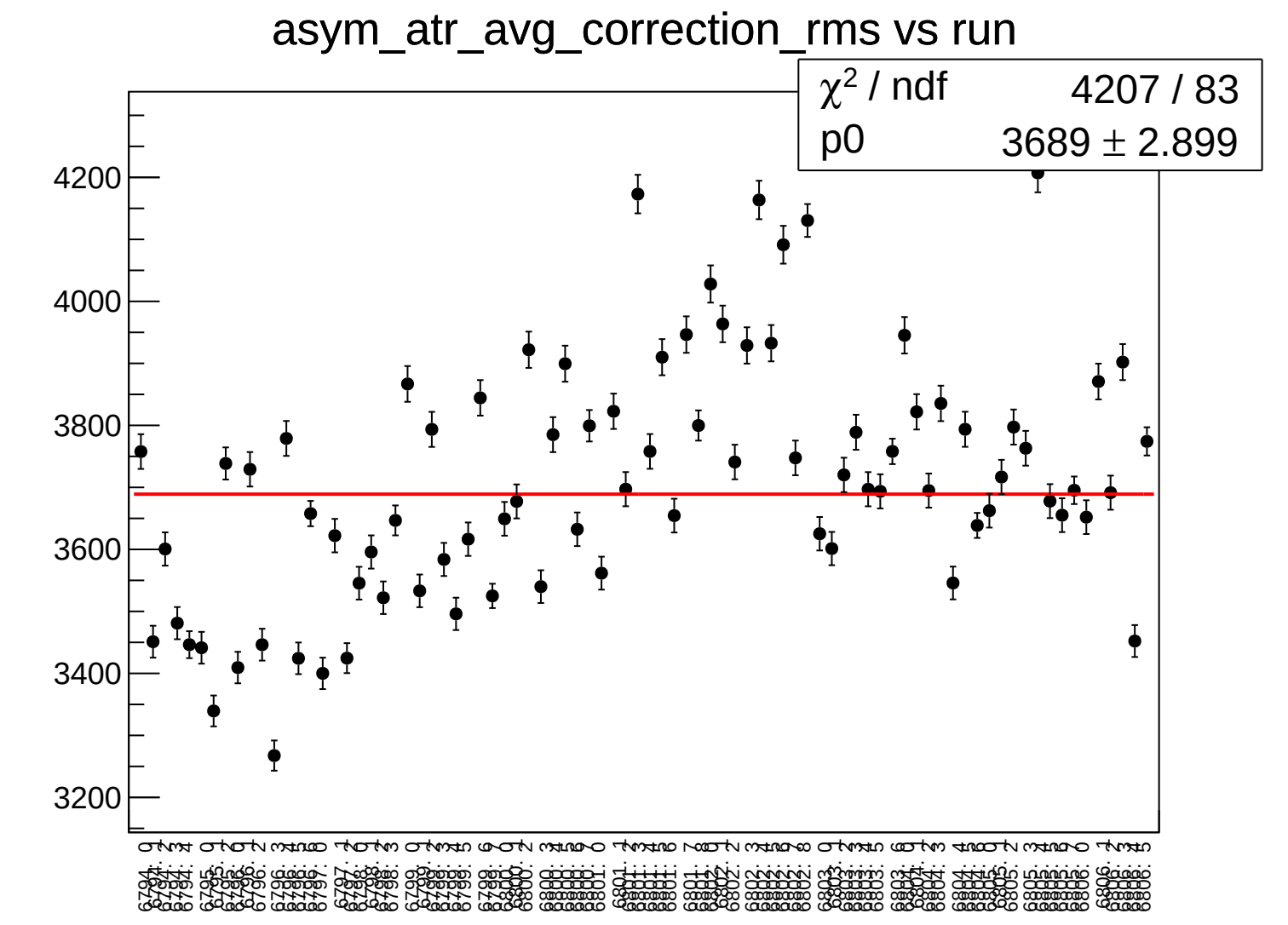

reg_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 93.21 / 83
p0 1175 ± 2062
pull
Entries 84
Mean 137.7
Std Dev 45.44

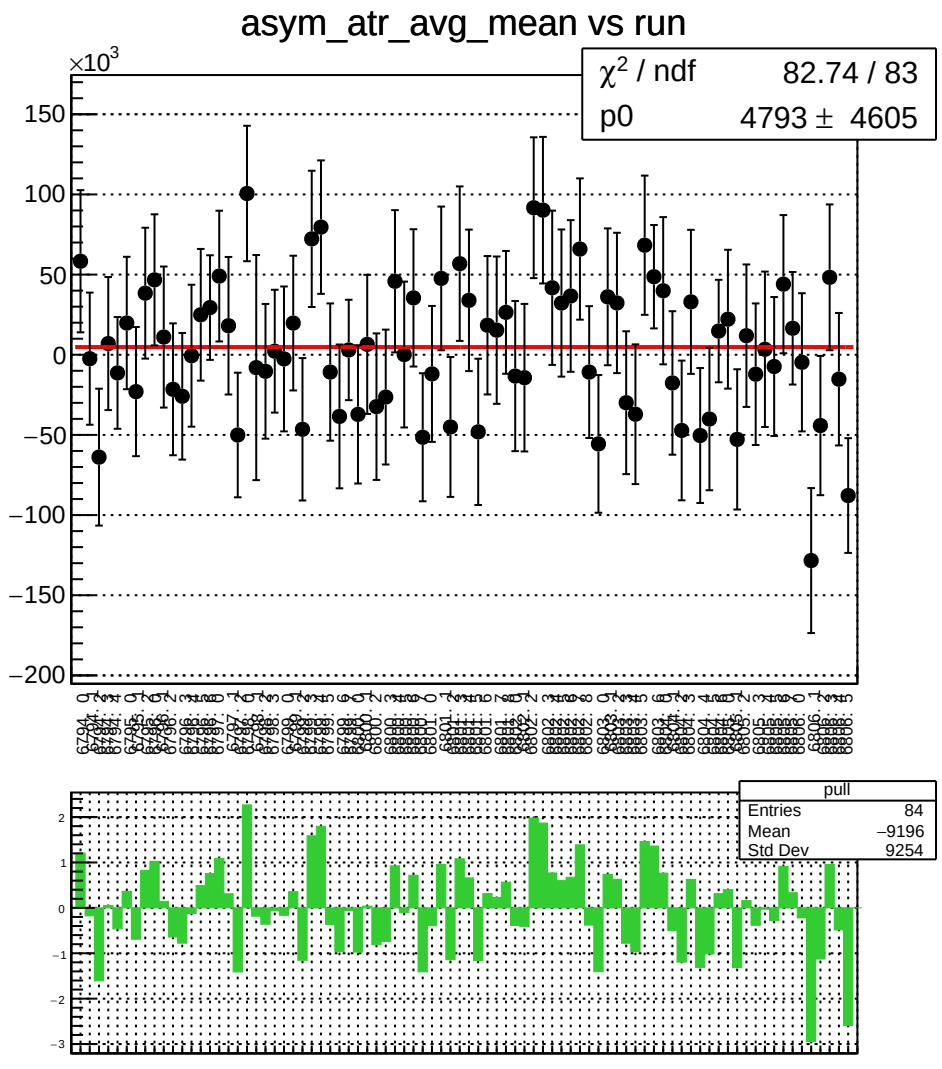

pull1D
Entries 84
Mean −0.01393
Std Dev 1.053

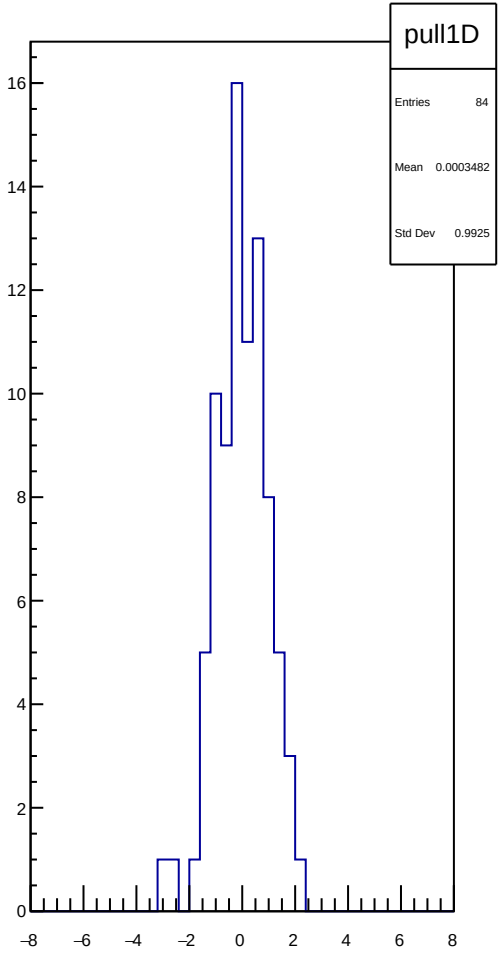

reg_asym_atr_avg_rms vs run
χ^2 / ndf 8207 / 83
p0 1854 ± 1.458
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

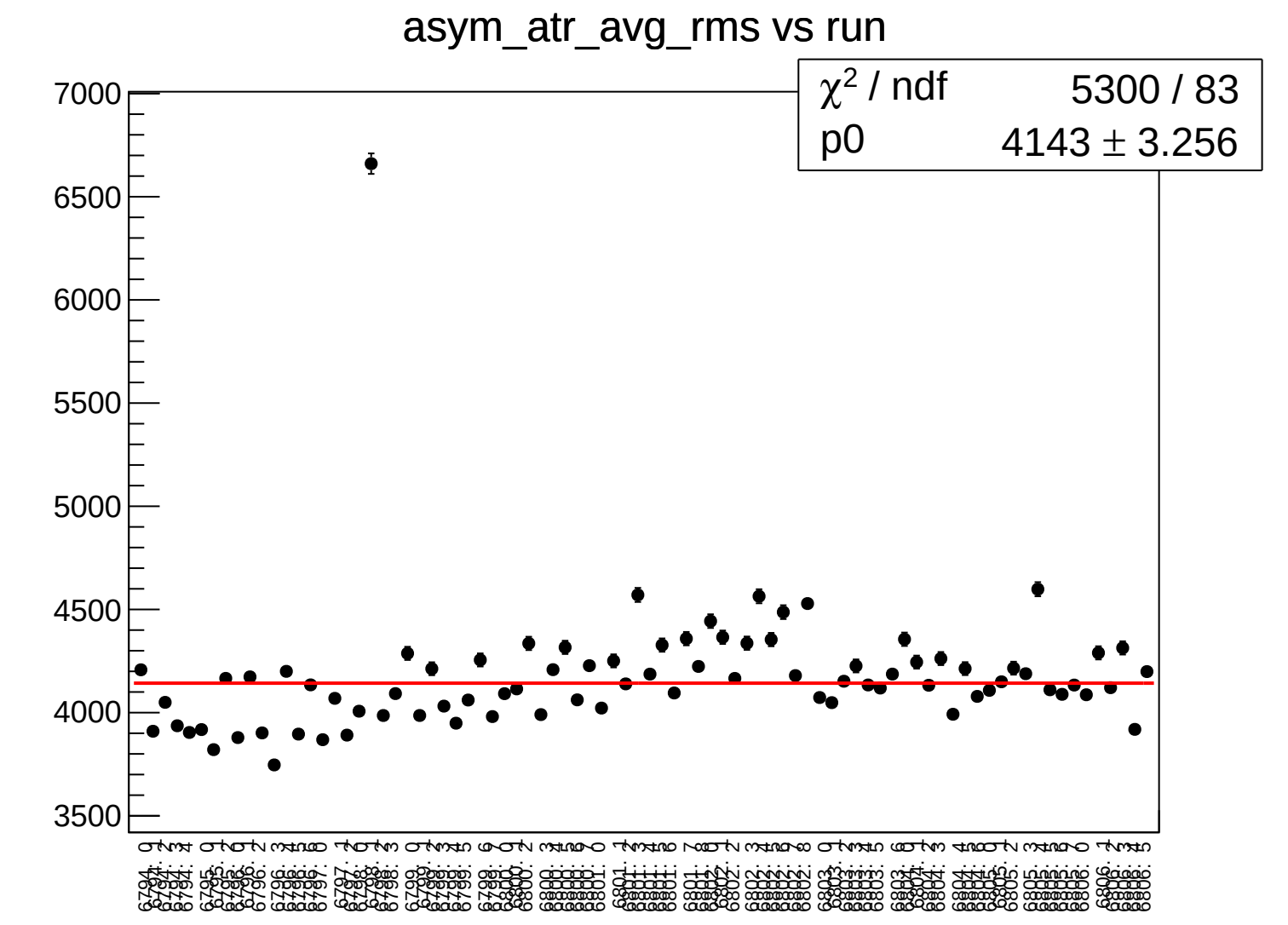

asym_atr_avg_correction_mean vs run
×10^3
χ^2 / ndf 87.85 / 83
p0 −3976 ± 4099
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −539.9
Std Dev 592.9
3
2
1
0
−1
−2

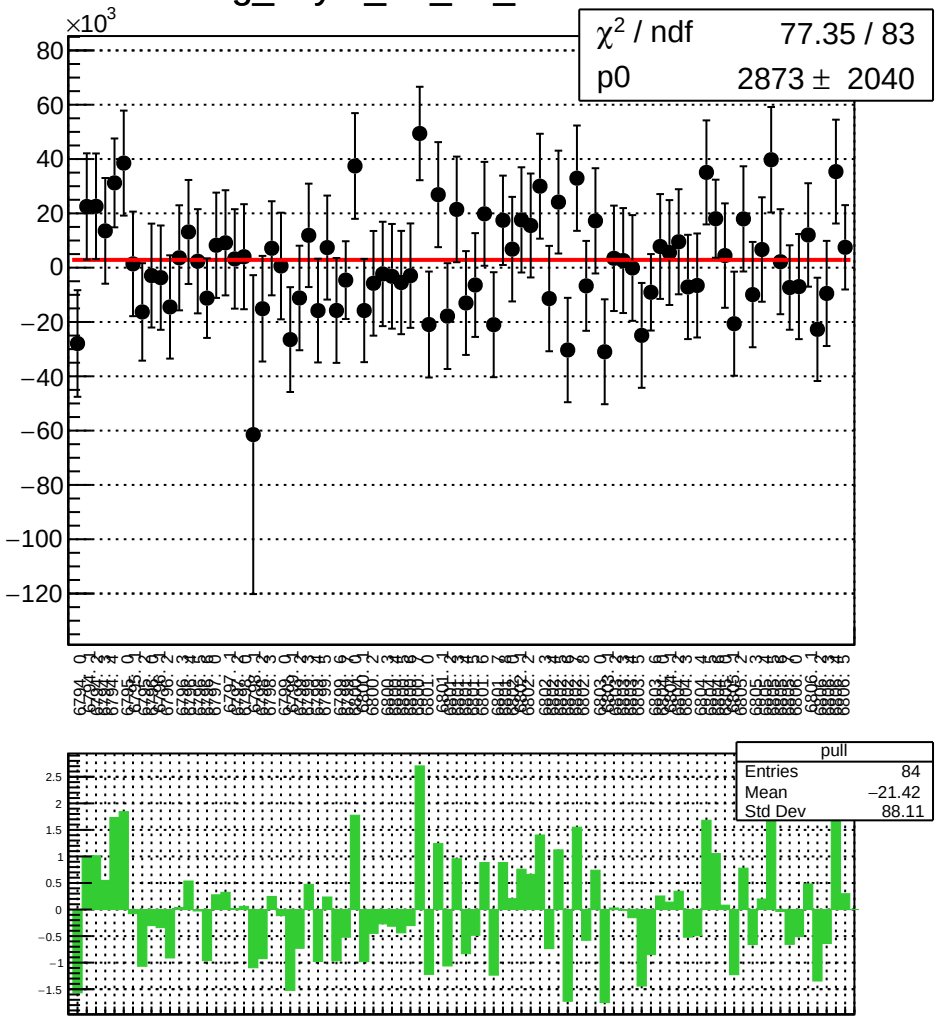

pull1D
Entries 84
Mean −0.005305
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

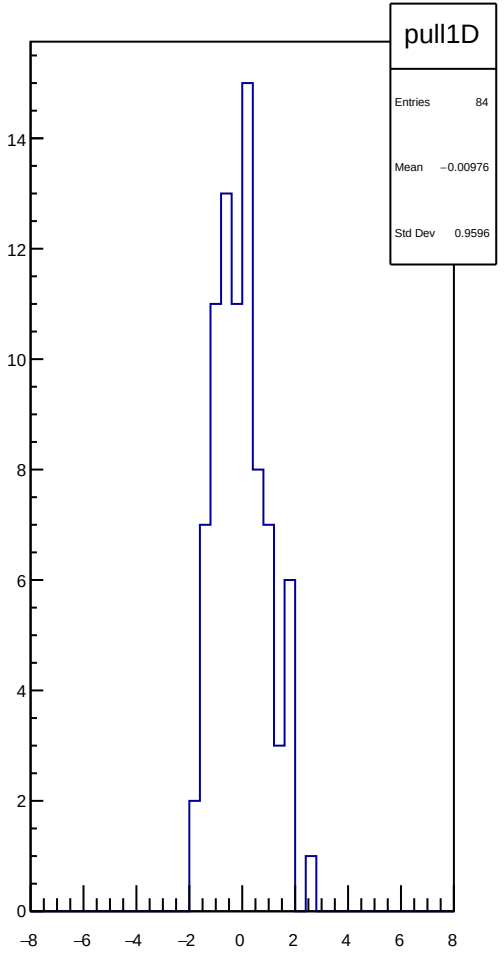

asym_atr_avg_correction_rms vs run
χ² / ndf 4207 / 83
p0 3689 ± 2.899
4200
4000
3800
3600
3400
3200

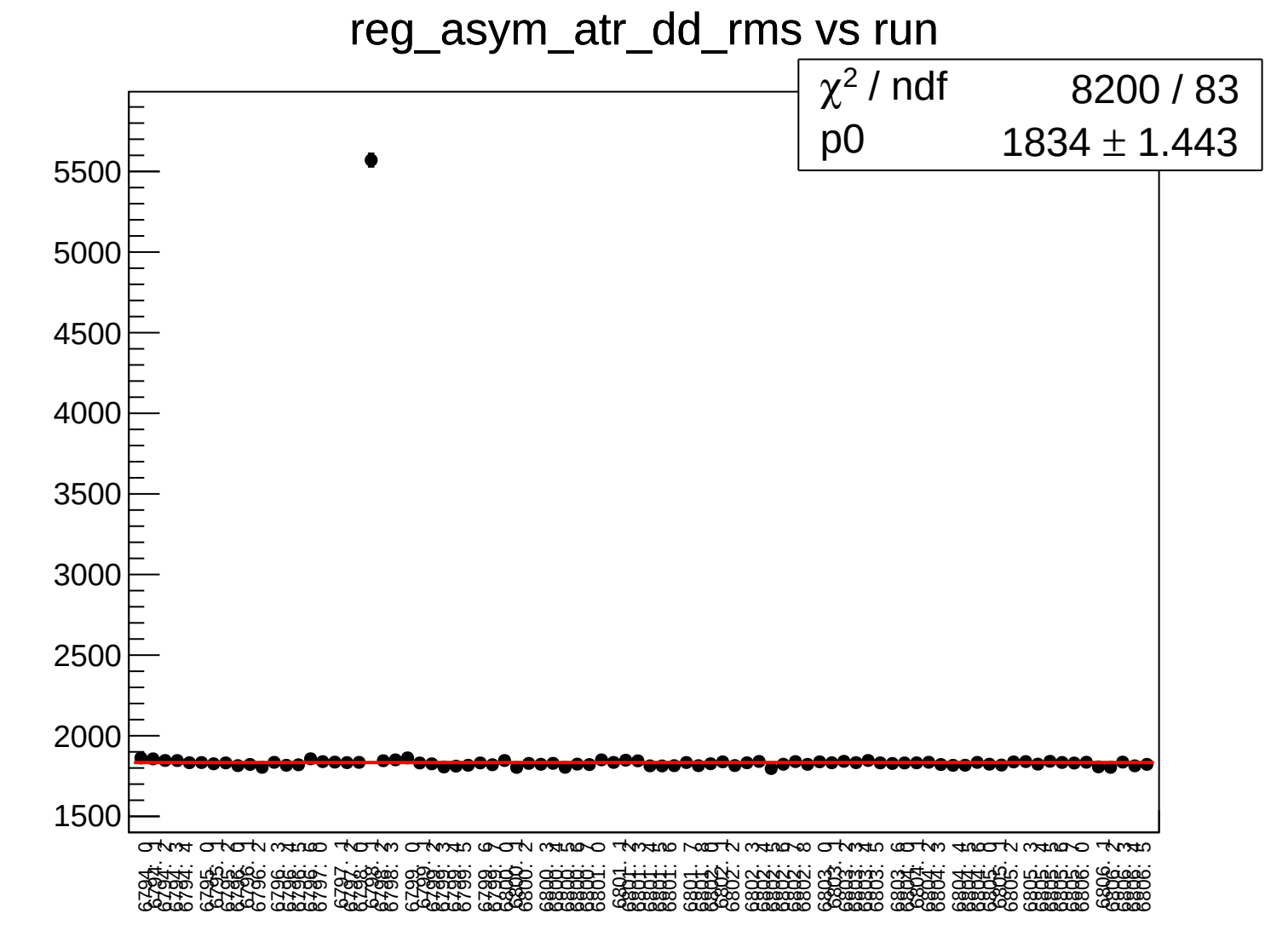

asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 82.74 / 83
p0 4793 ± 4605
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −9196
Std Dev 9254
2
1
0
−1
−2
−3

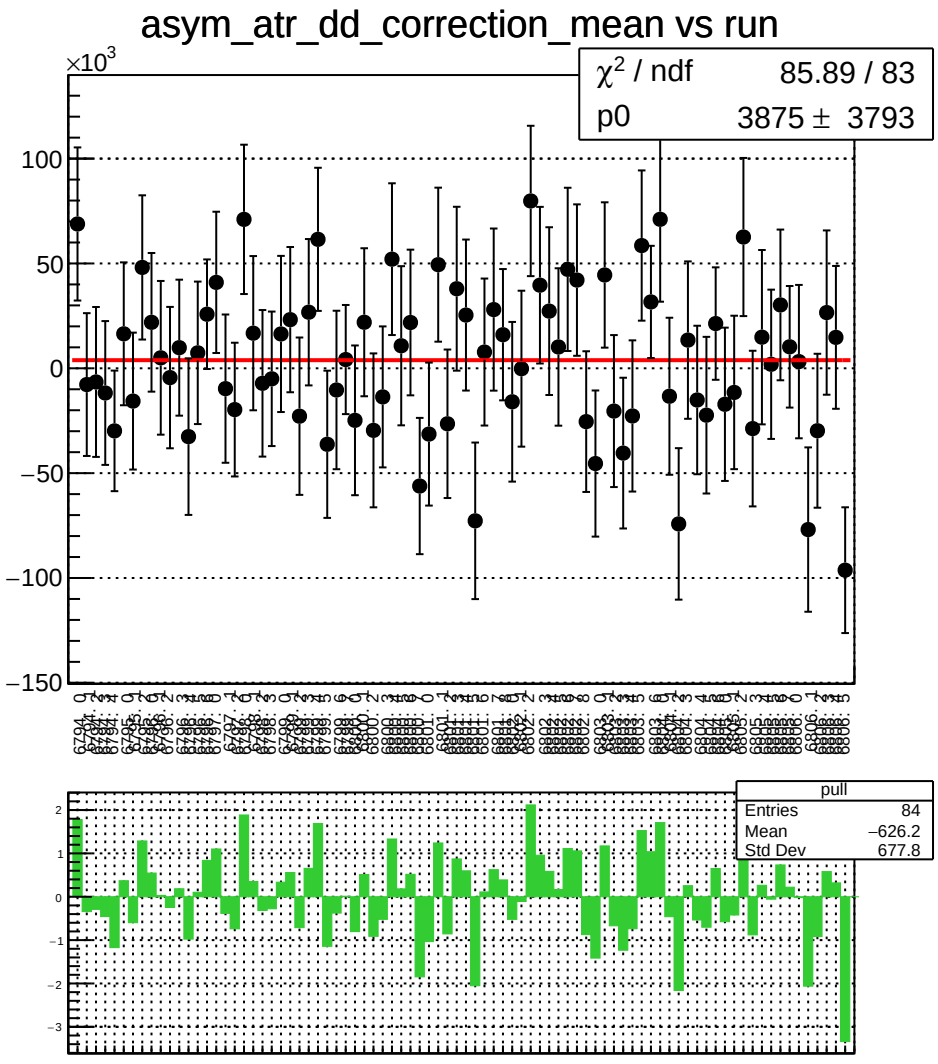

pull1D
Entries 84
Mean 0.0003482
Std Dev 0.9925
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

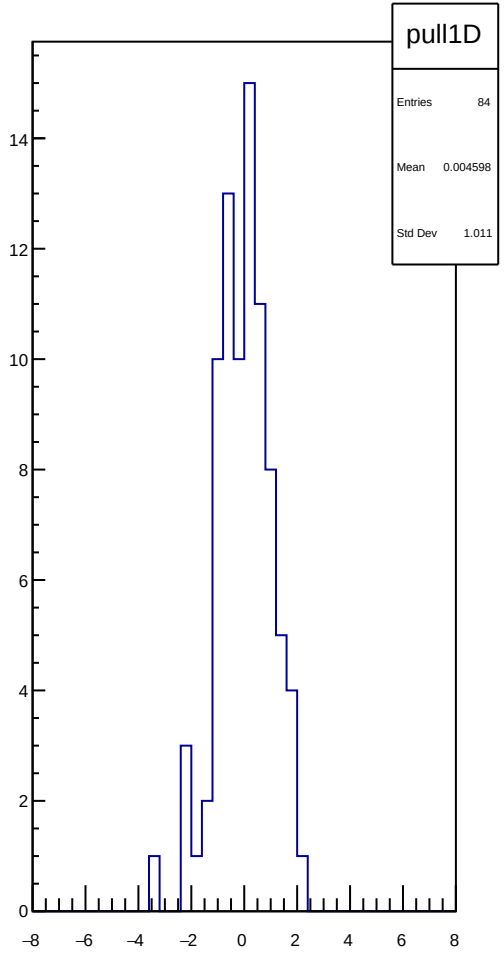

asym_atr_avg_rms vs run
χ^2 / ndf 5300 / 83
p0 4143 ± 3.256
7000
6500
6000
5500
5000
4500
4000
3500

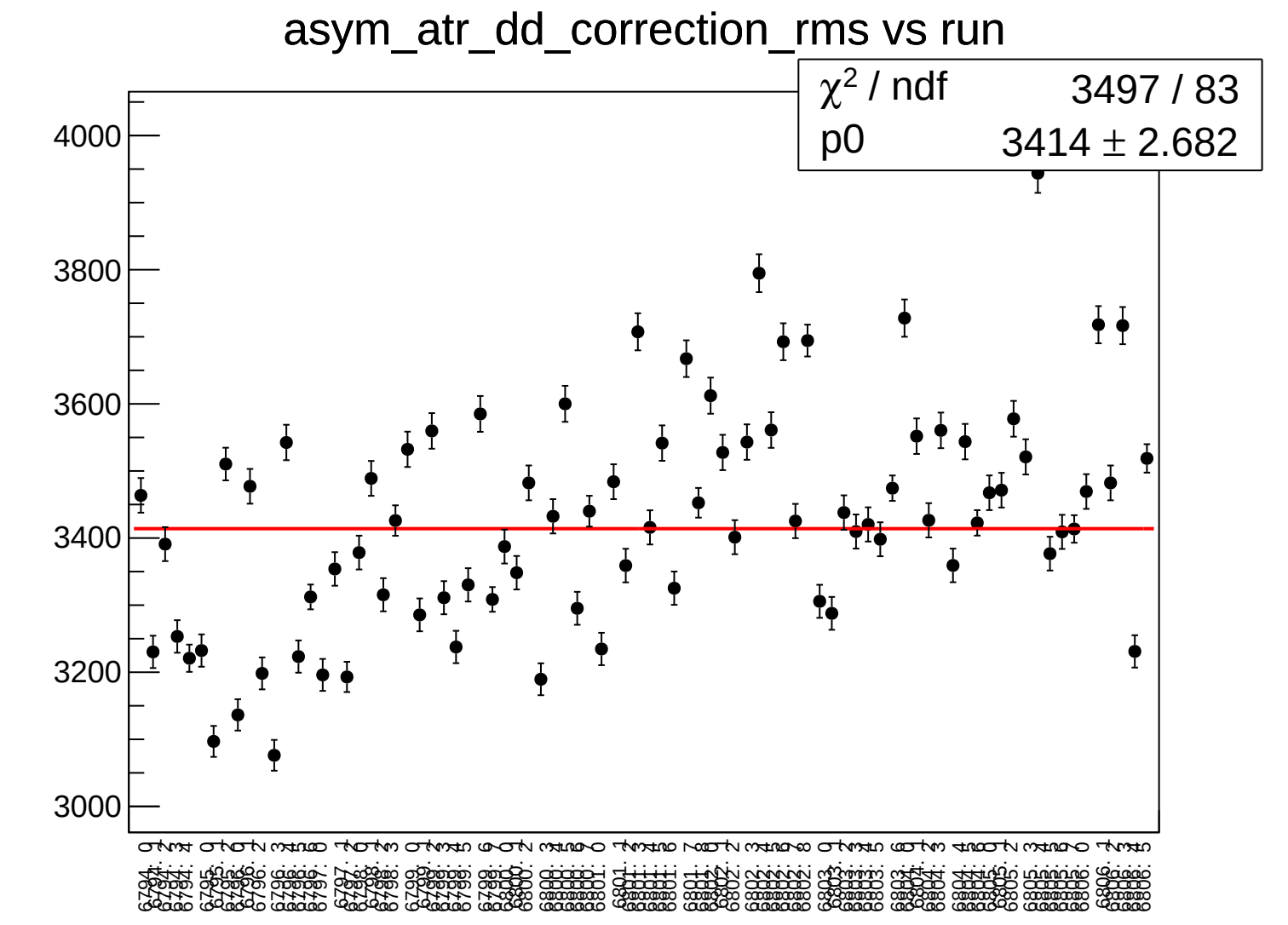

reg_asym_atr_dd_mean vs run
χ² / ndf 77.35 / 83
p0 2873 ± 2040
×10³
pull
Entries 84
Mean −21.42
Std Dev 88.11

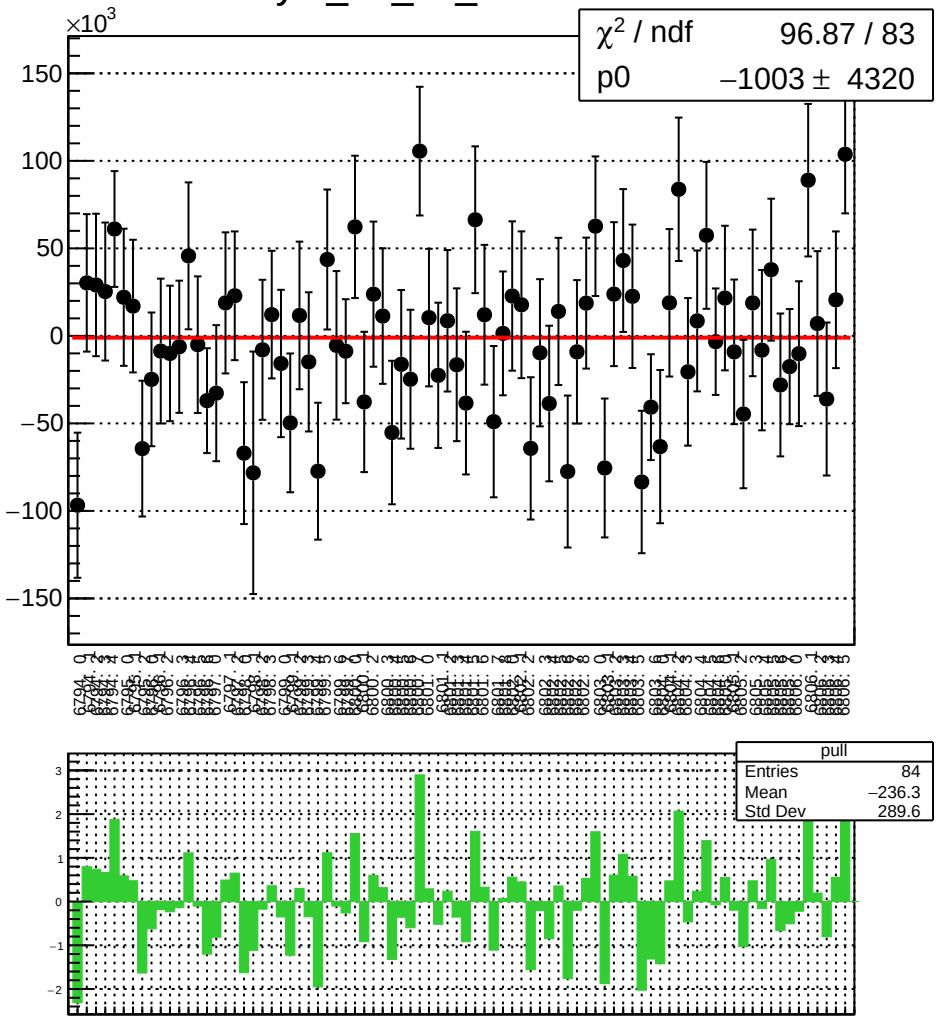

pull1D
Entries 84
Mean −0.00976
Std Dev 0.9596

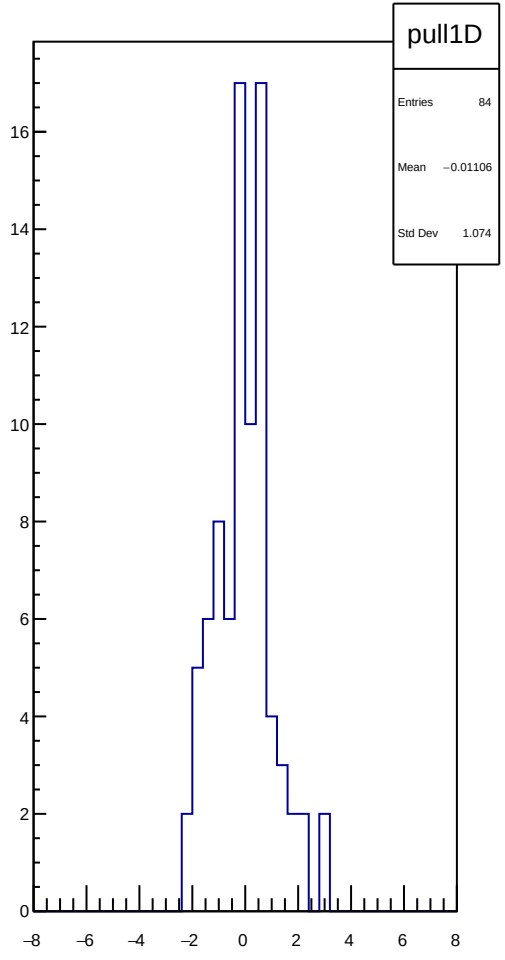

reg_asym_atr_dd_rms vs run
χ² / ndf 8200 / 83
p0 1834 ± 1.443
5500
5000
4500
4000
3500
3000
2500
2000
1500

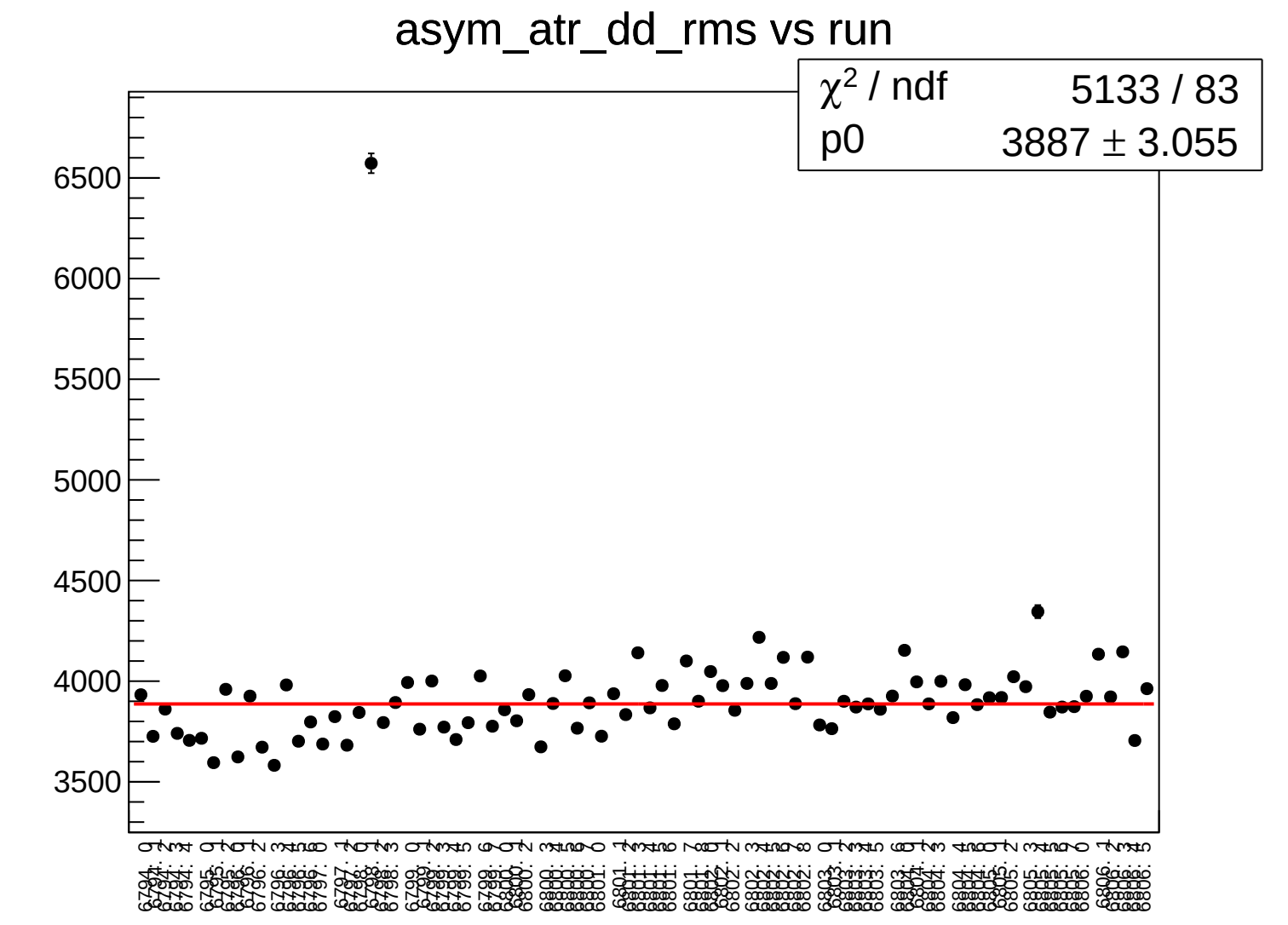

asym_atr_dd_correction_mean vs run
×10^3
χ^2 / ndf 85.89 / 83
p0 3875 ± 3793
100
50
0
−50
−100
−150
pull
Entries 84
Mean −626.2
Std Dev 677.8
2
1
0
−1
−2
−3

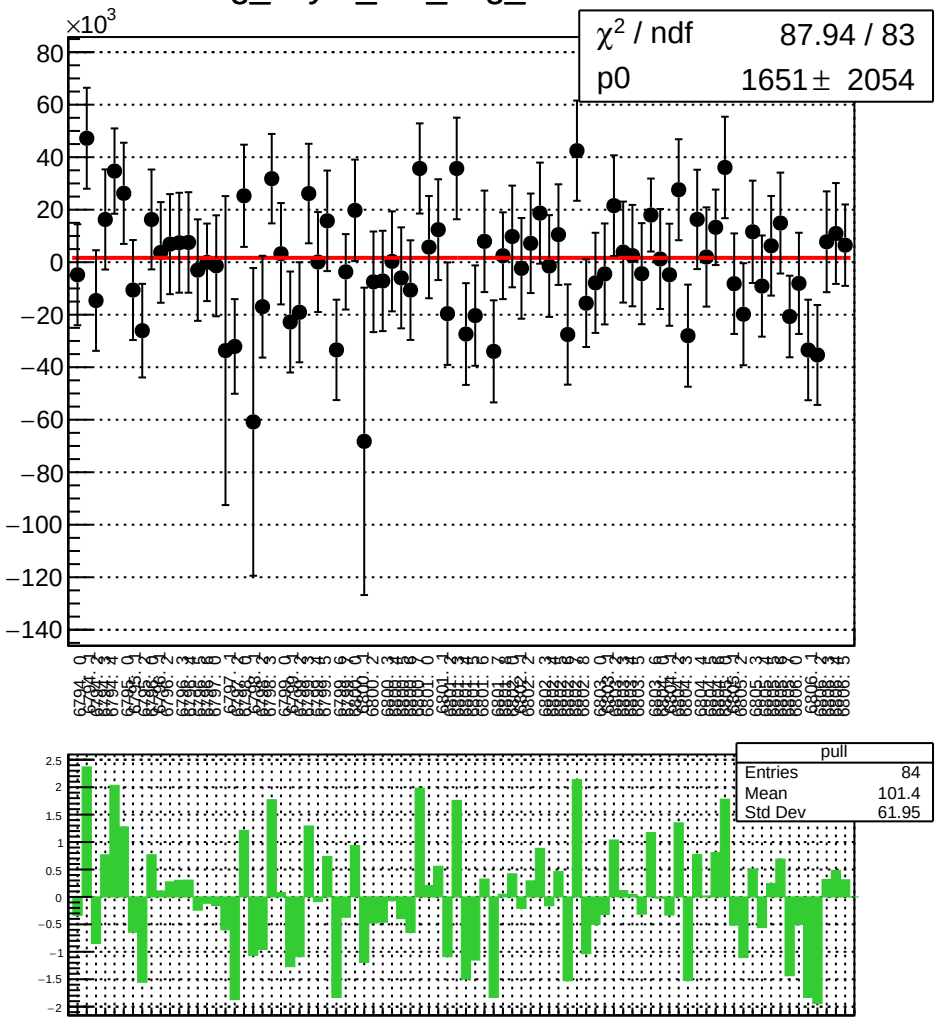

pull1D
Entries 84
Mean 0.004598
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

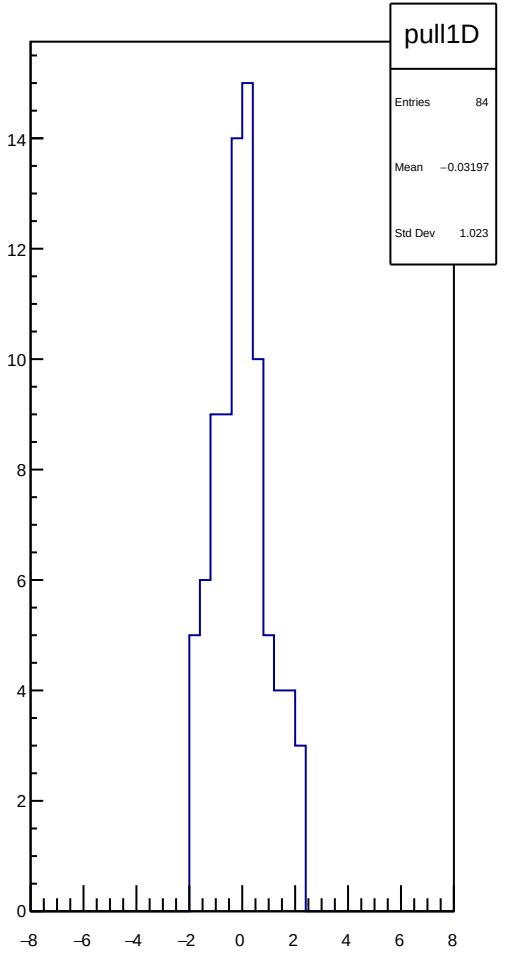

asym_atr_dd_correction_rms vs run
χ² / ndf 3497 / 83
p0 3414 ± 2.682
4000
3800
3600
3400
3200
3000

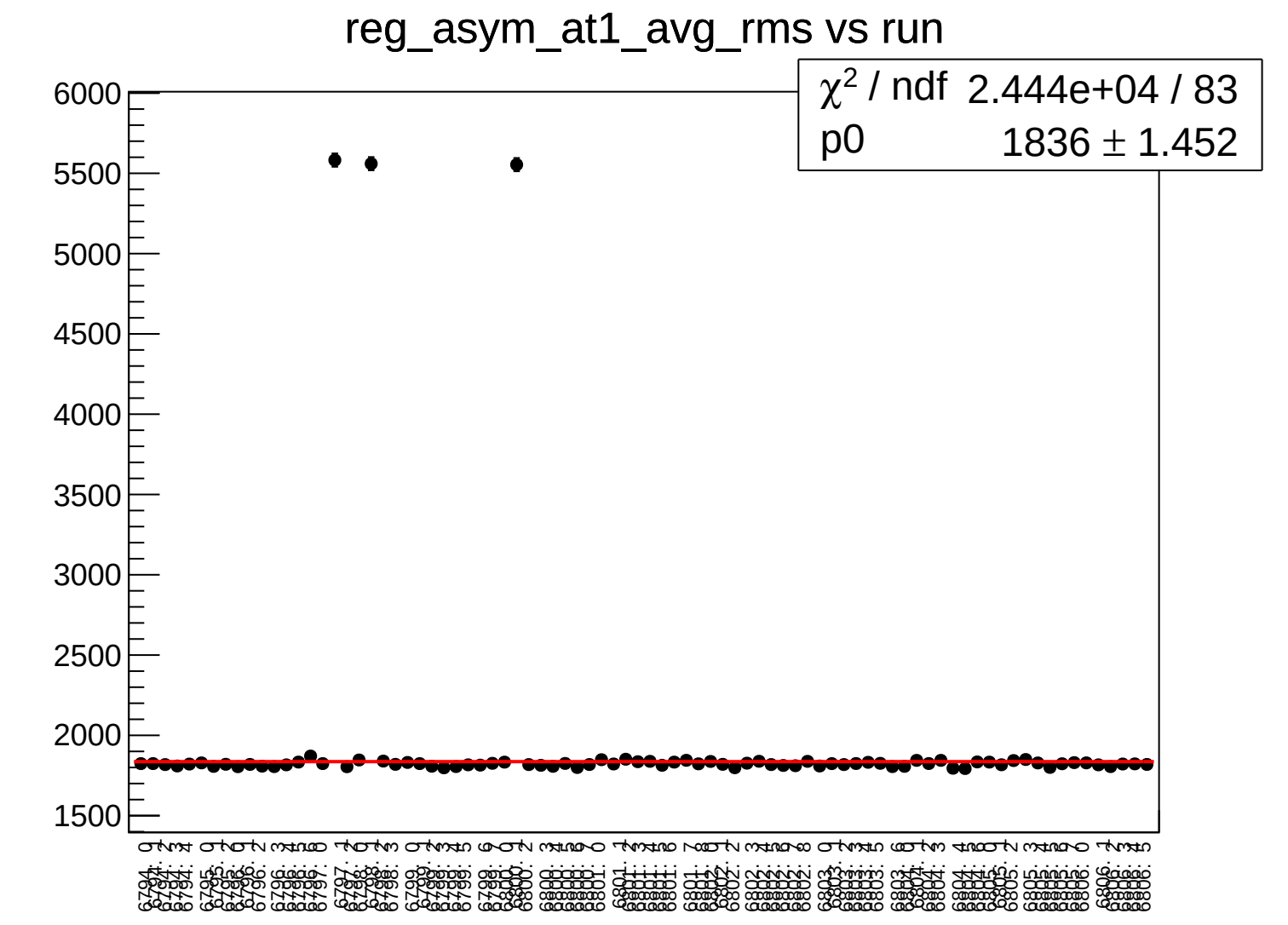

asym_atr_dd_mean vs run
×10^3
χ² / ndf 96.87 / 83
p0 −1003 ± 4320
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −236.3
Std Dev 289.6
3
2
1
0
−1
−2

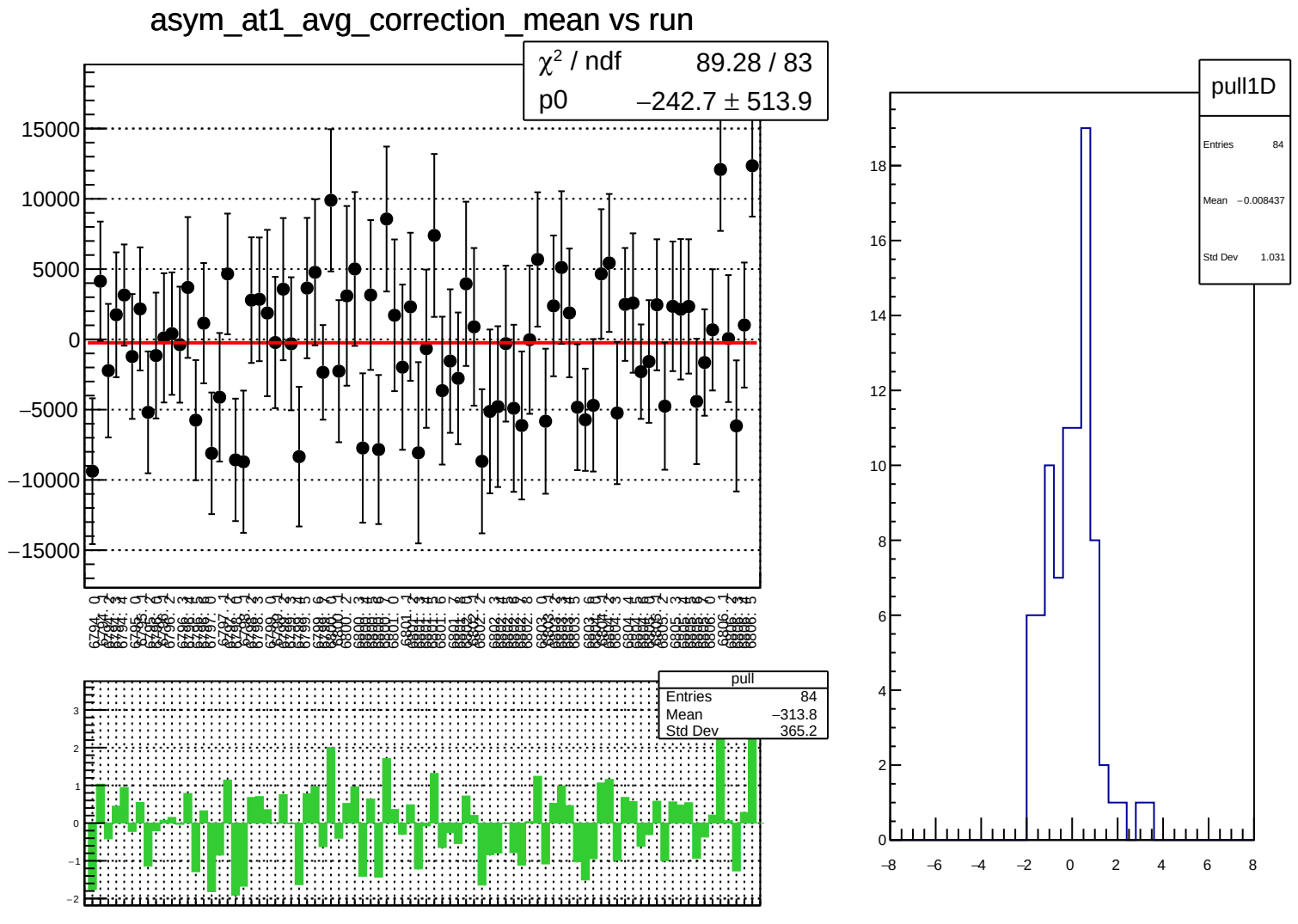

pull1D
Entries 84
Mean −0.01106
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

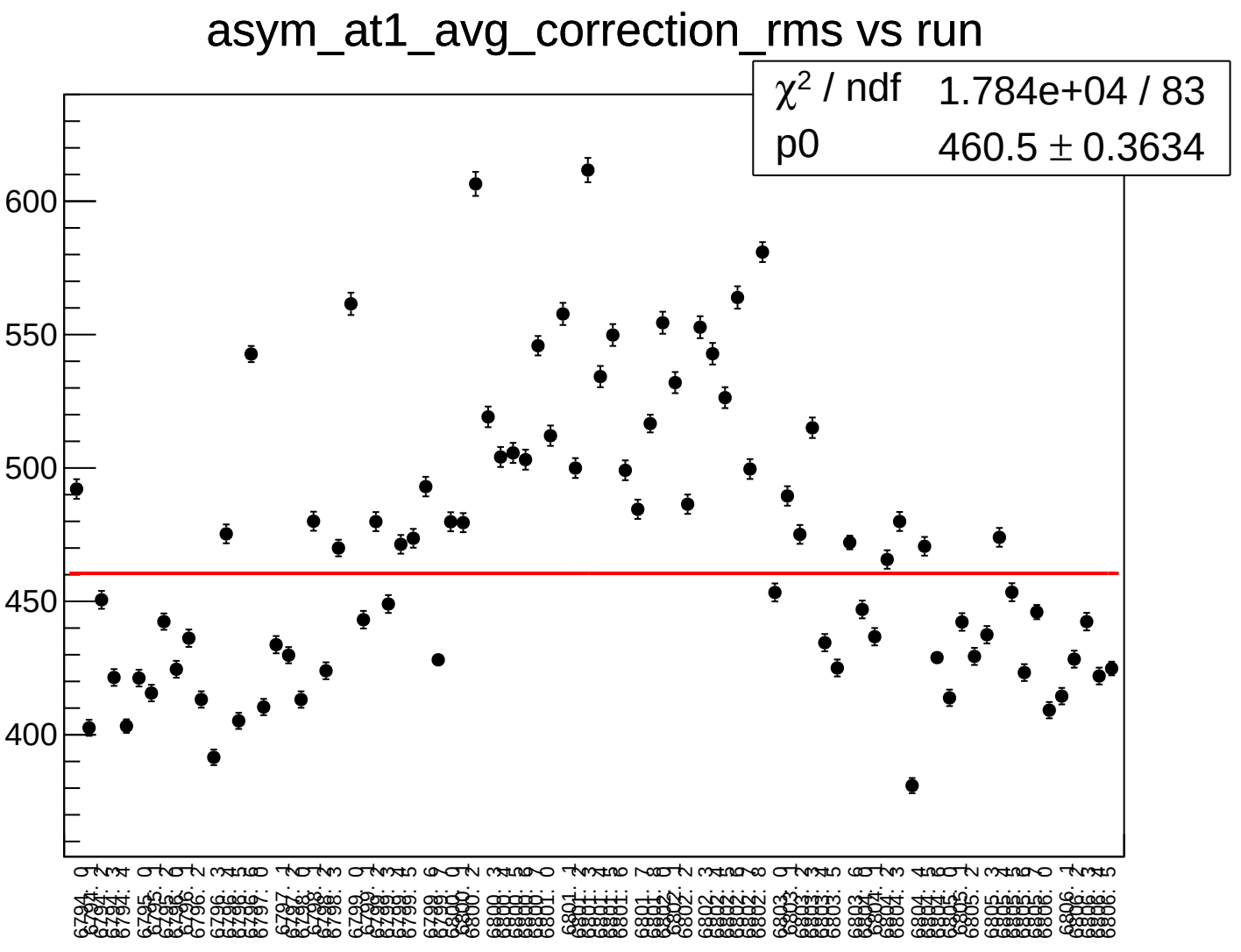

asym_atr_dd_rms vs run
χ^2 / ndf 5133 / 83
p0 3887 ± 3.055
6500
6000
5500
5000
4500
4000
3500

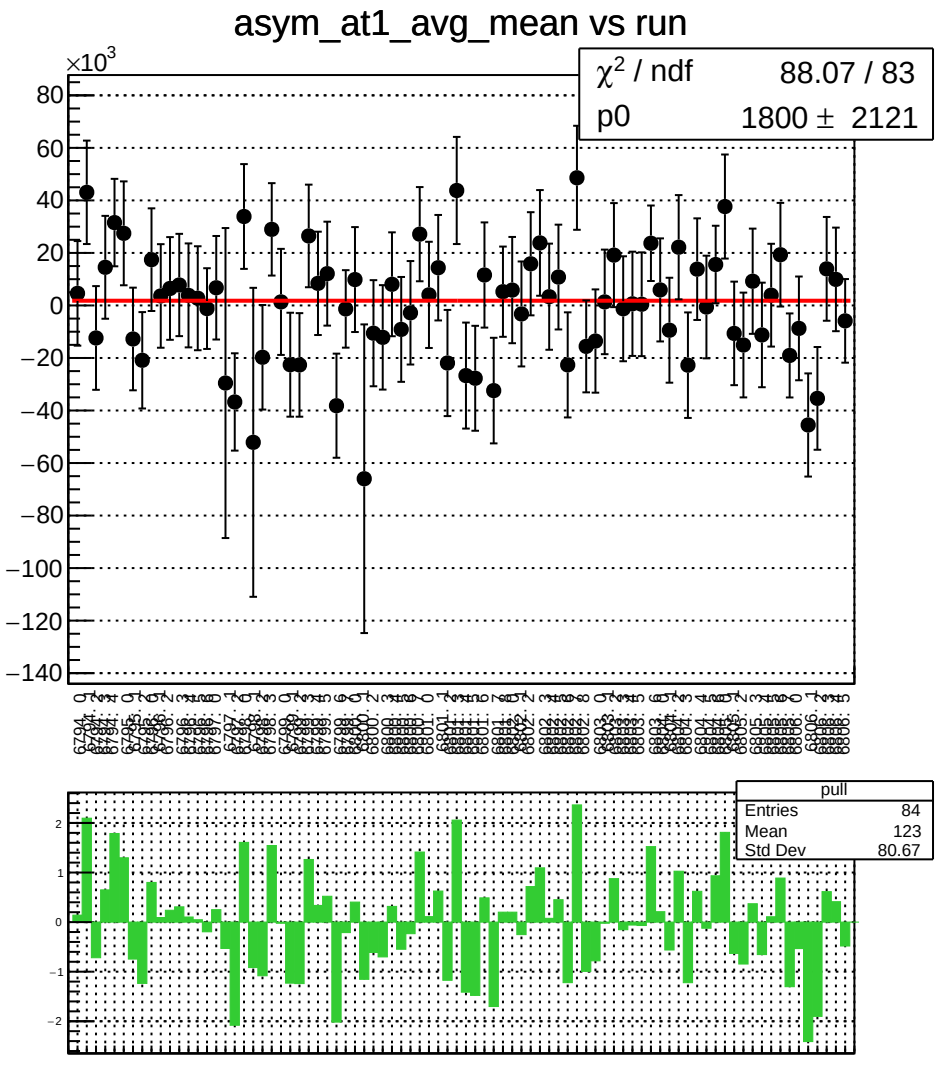

reg_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 87.94 / 83
p0 1651 ± 2054
pull
Entries 84
Mean 101.4
Std Dev 61.95

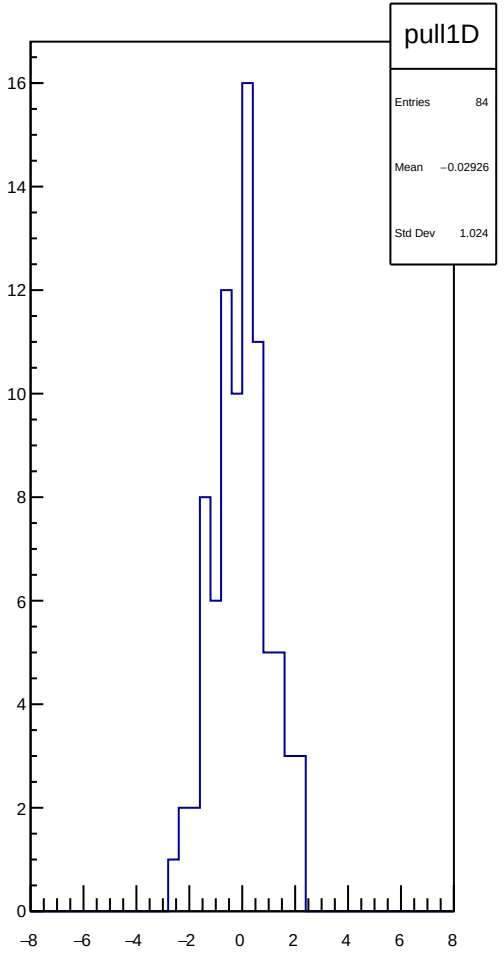

pull1D
Entries 84
Mean −0.03197
Std Dev 1.023

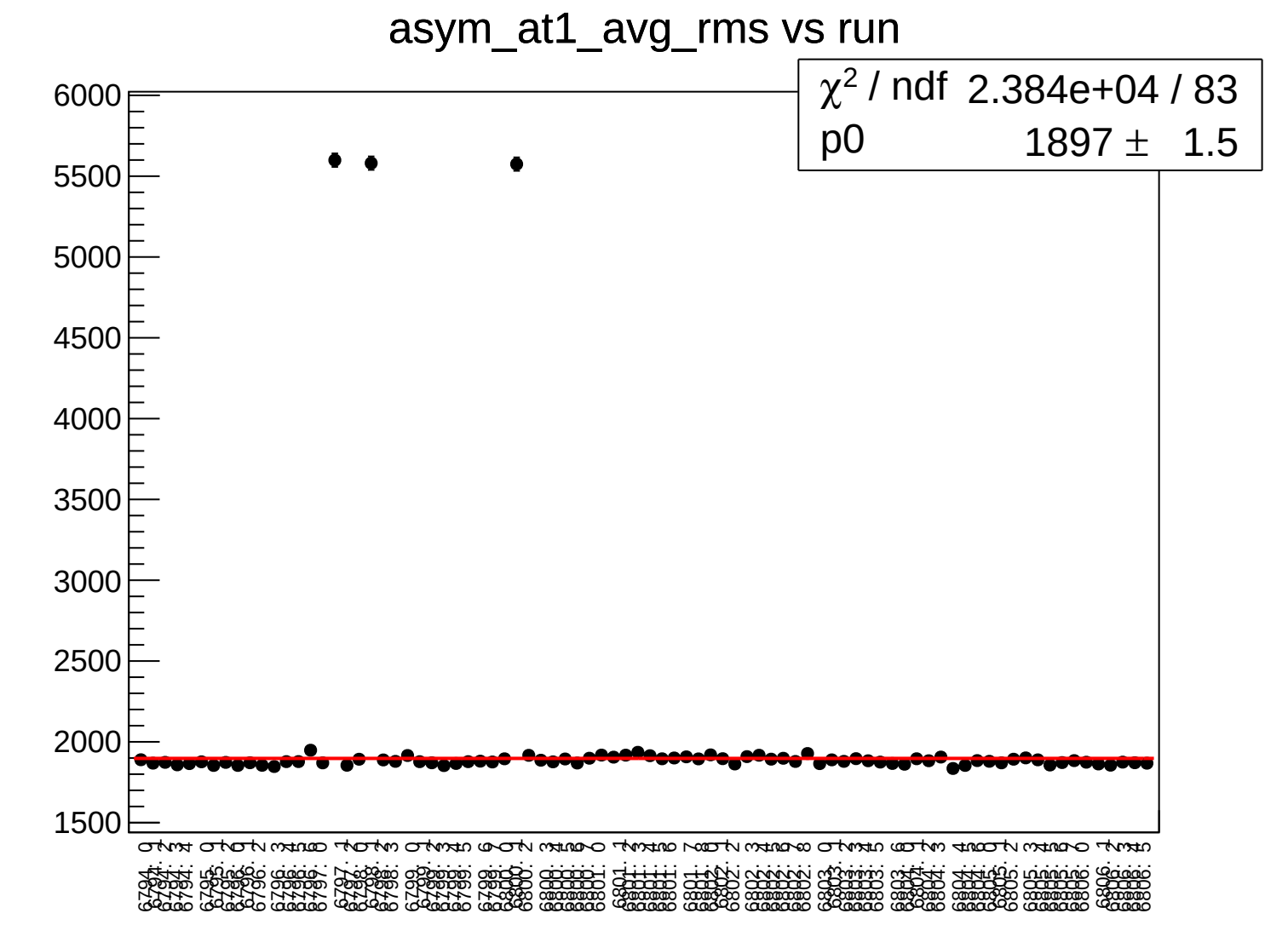

reg_asym_at1_avg_rms vs run
χ^2 / ndf 2.444e+04 / 83
p0 1836 ± 1.452
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

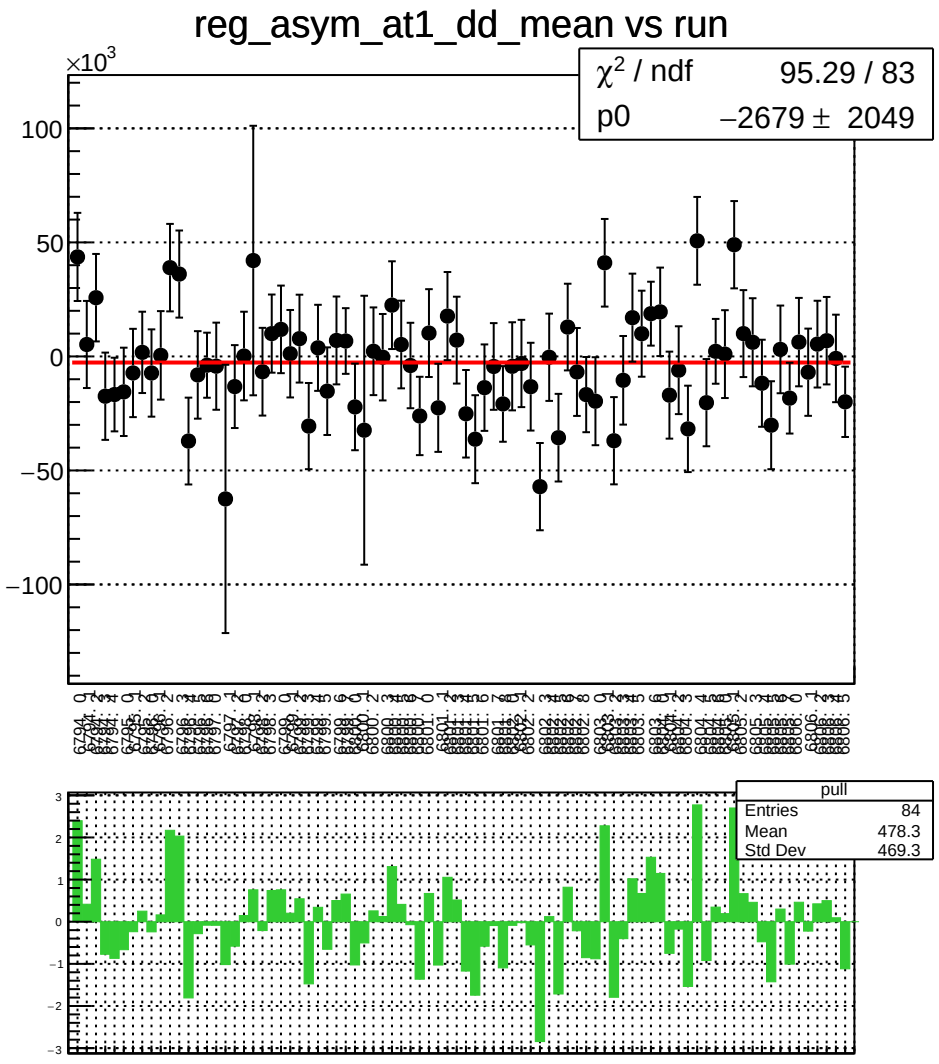

asym_at1_avg_correction_mean vs run
χ² / ndf 89.28 / 83
p0 −242.7 ± 513.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −313.8
Std Dev 365.2
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.008437
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

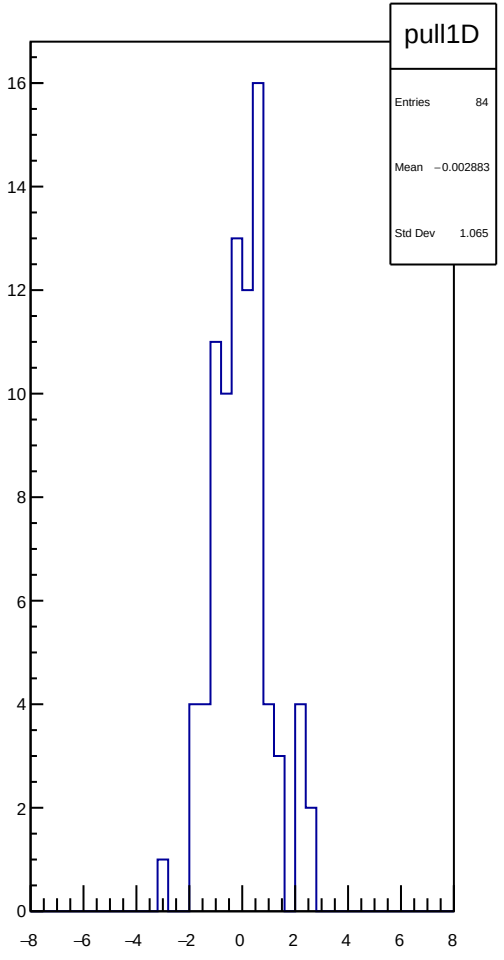

asym_at1_avg_correction_rms vs run
χ² / ndf 1.784e+04 / 83
p0 460.5 ± 0.3634
600
550
500
450
400

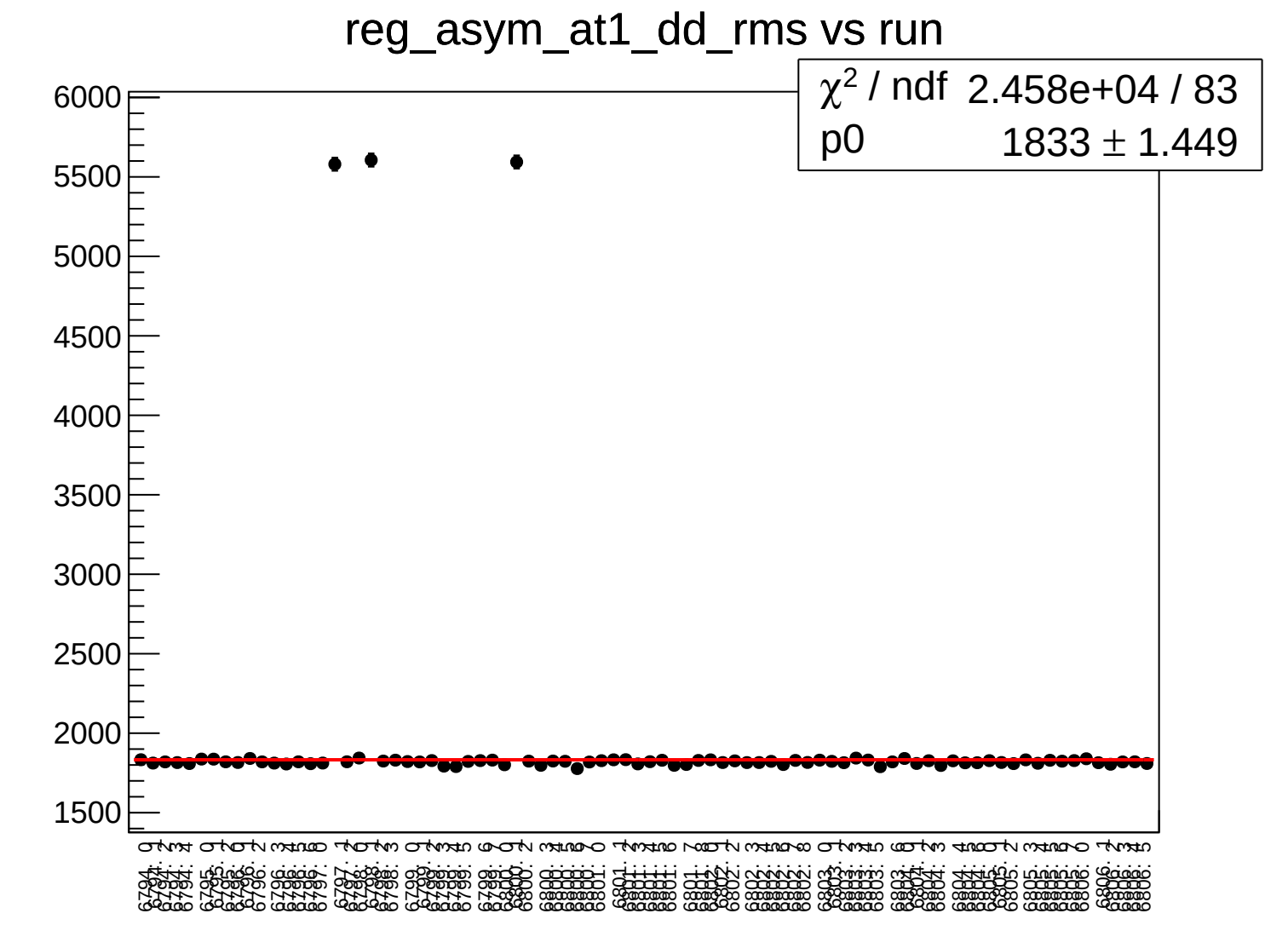

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 88.07 / 83
p0 1800 ± 2121
pull
Entries 84
Mean 123
Std Dev 80.67

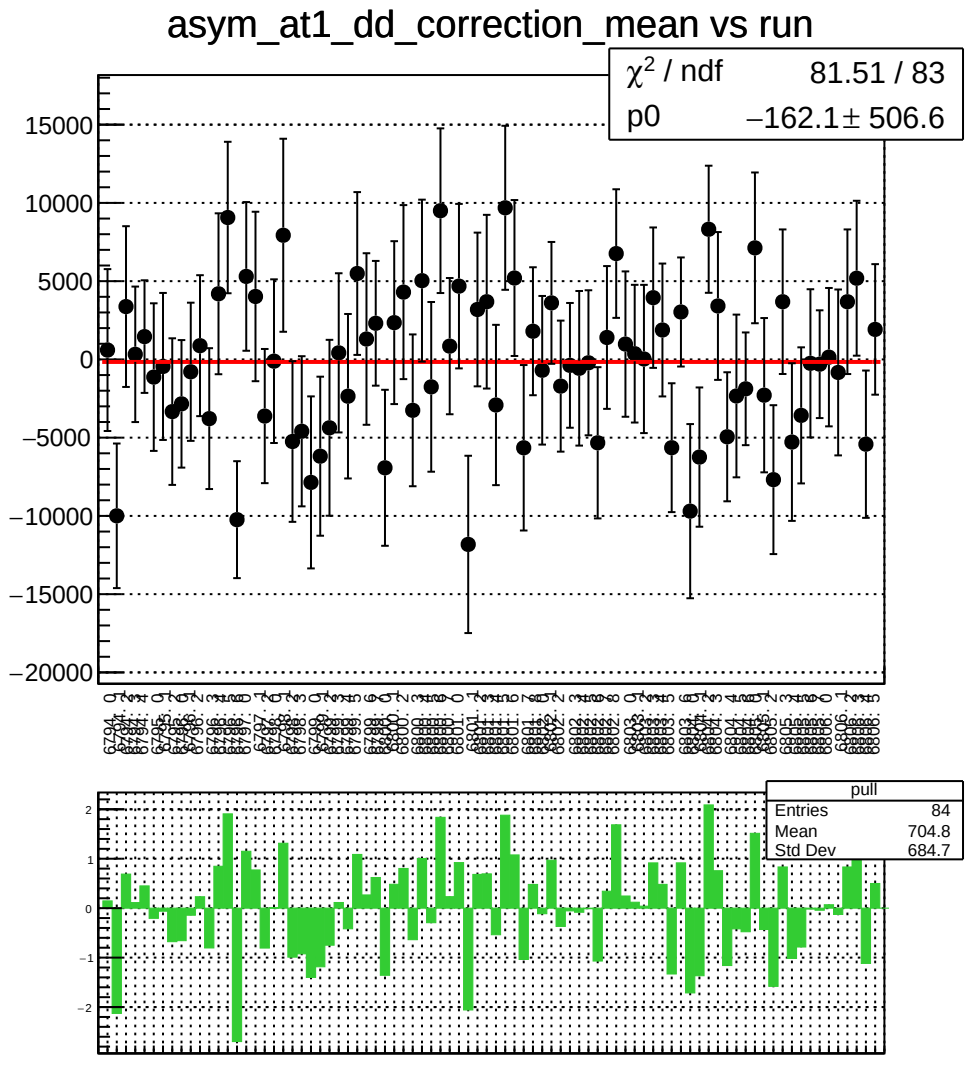

pull1D
Entries 84
Mean −0.02926
Std Dev 1.024

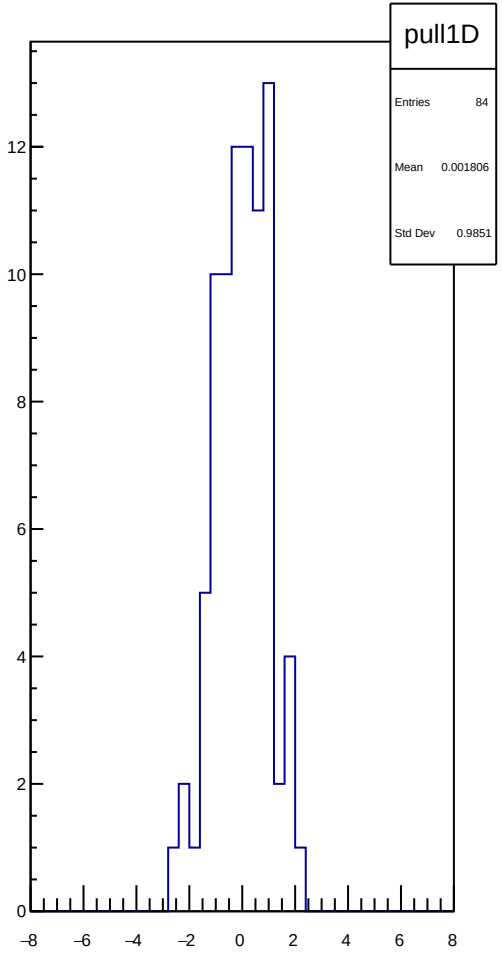

asym_at1_avg_rms vs run
χ² / ndf 2.384e+04 / 83
p0 1897 ± 1.5
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

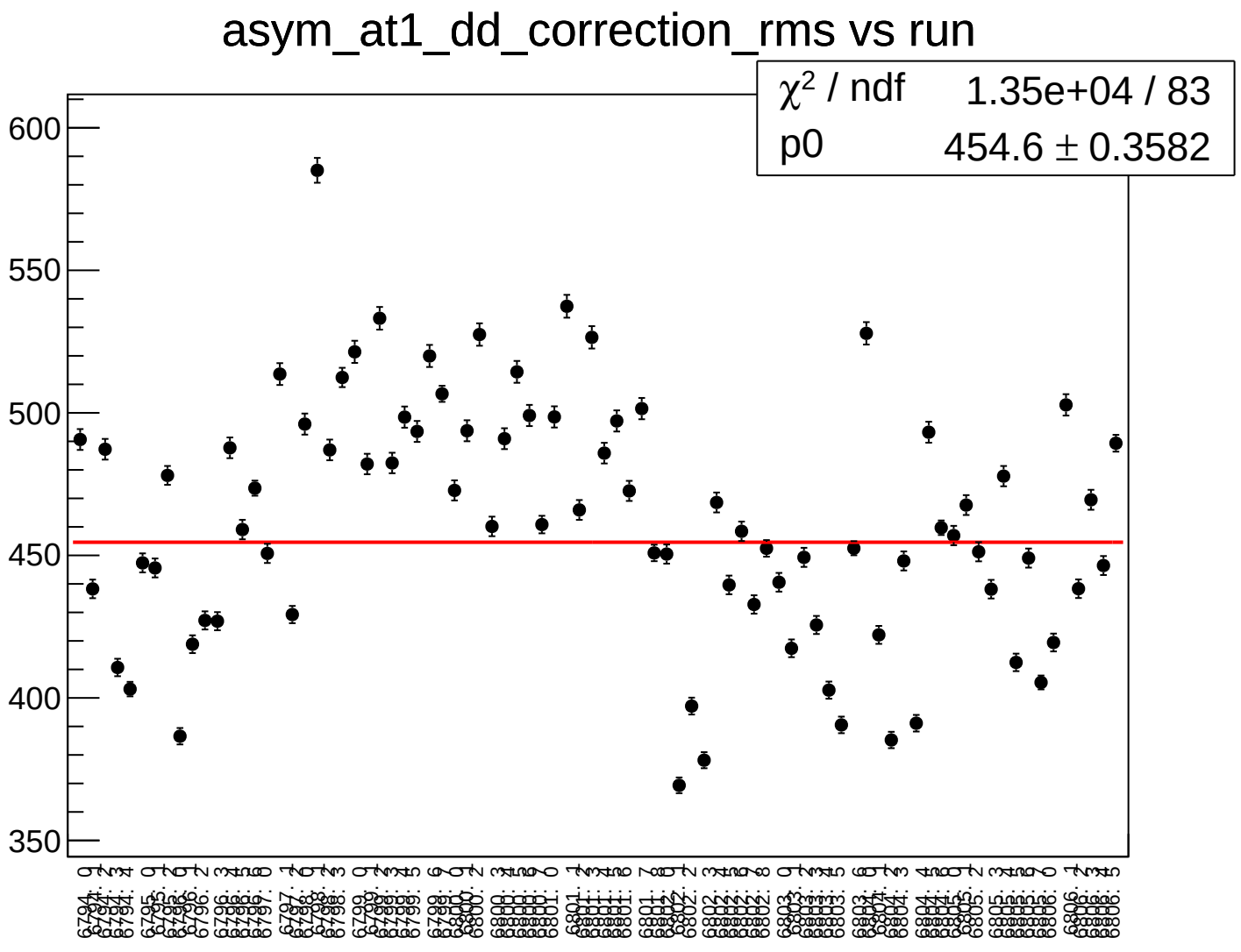

reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 95.29 / 83
p0 −2679 ± 2049
100
50
0
−50
−100
pull
Entries 84
Mean 478.3
Std Dev 469.3
3
2
1
0
−1
−2
−3

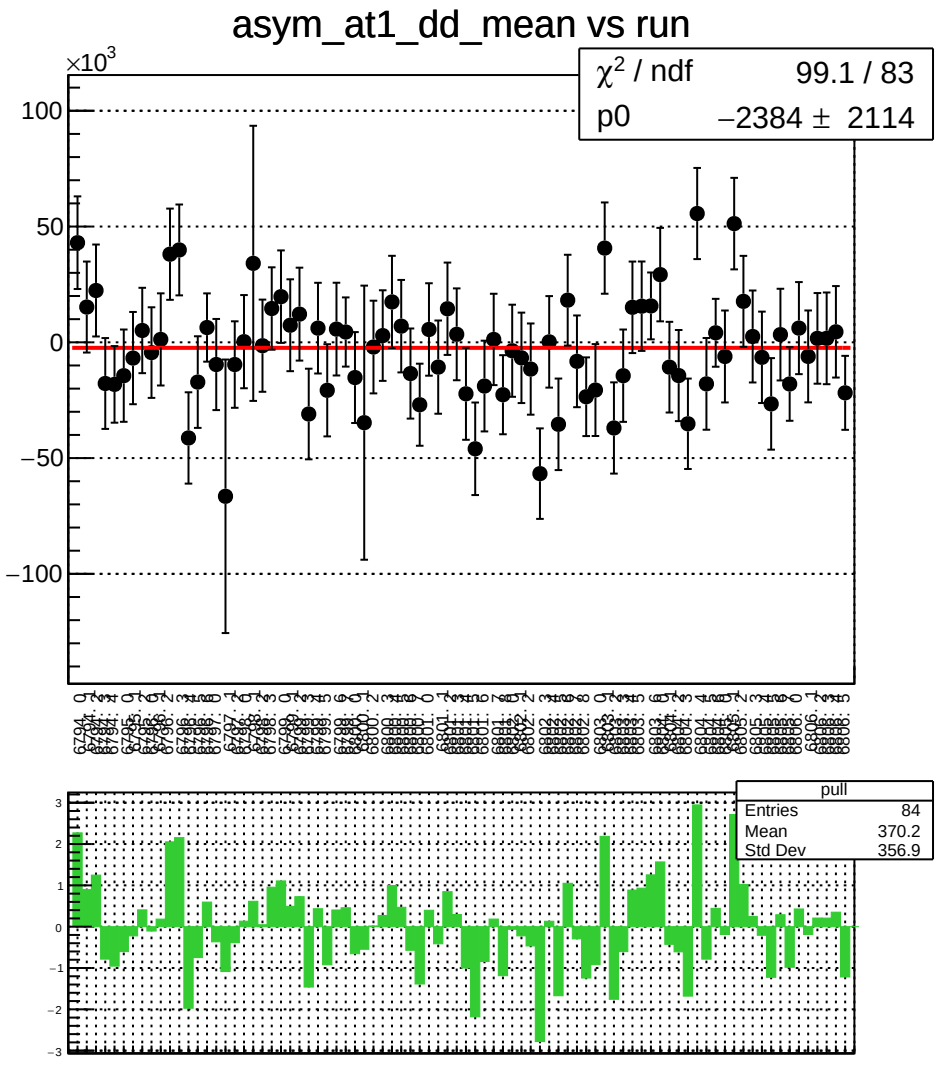

pull1D
Entries 84
Mean −0.002883
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

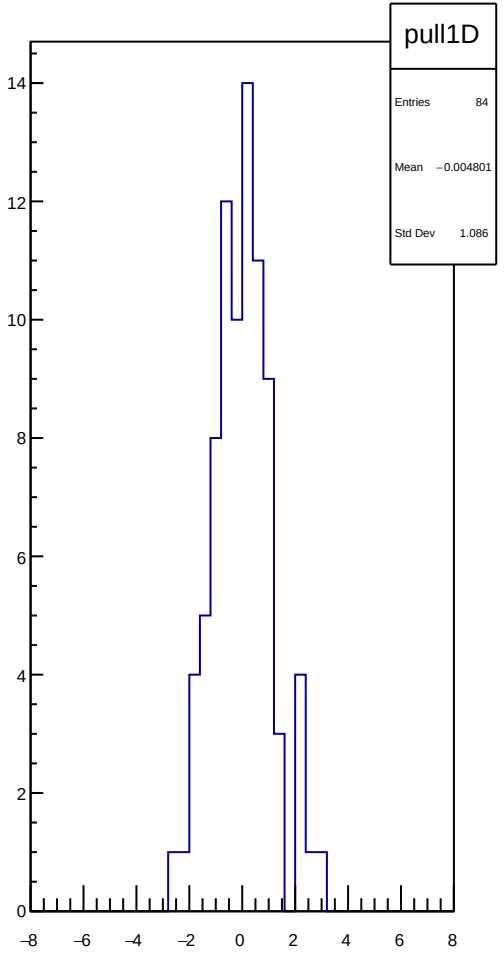

reg_asym_at1_dd_rms vs run
χ^2 / ndf 2.458e+04 / 83
p0 1833 ± 1.449
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

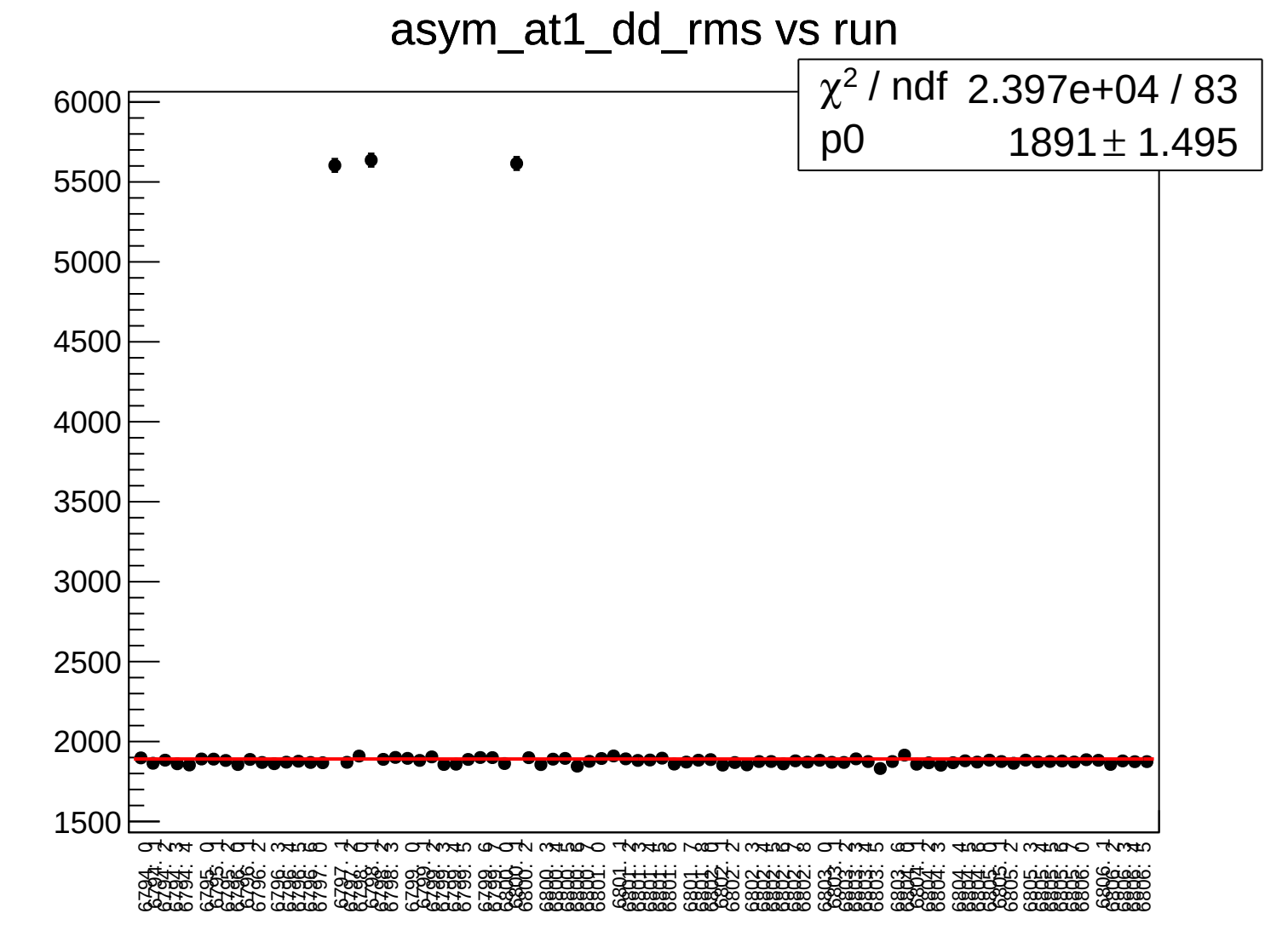

asym_at1_dd_correction_mean vs run
χ² / ndf 81.51 / 83
p0 −162.1± 506.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean 704.8
Std Dev 684.7
2
1
0
−1
−2

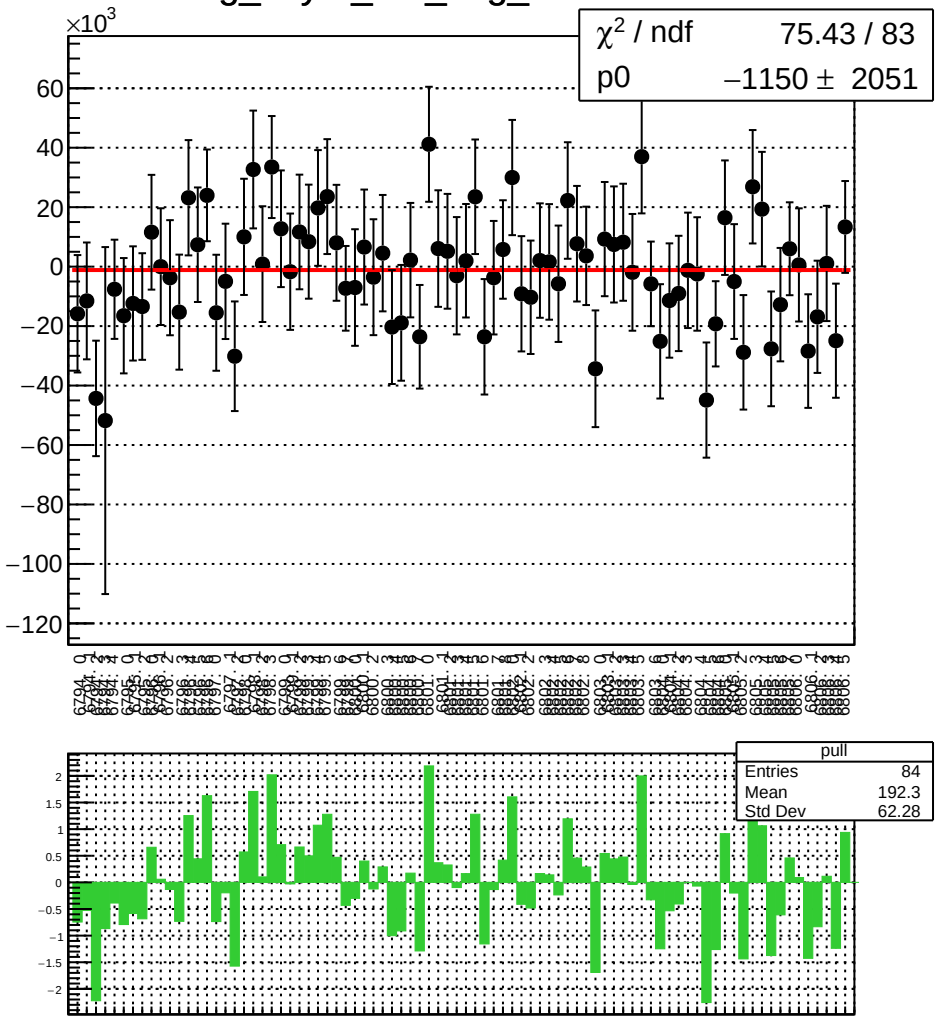

pull1D
Entries 84
Mean 0.001806
Std Dev 0.9851
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

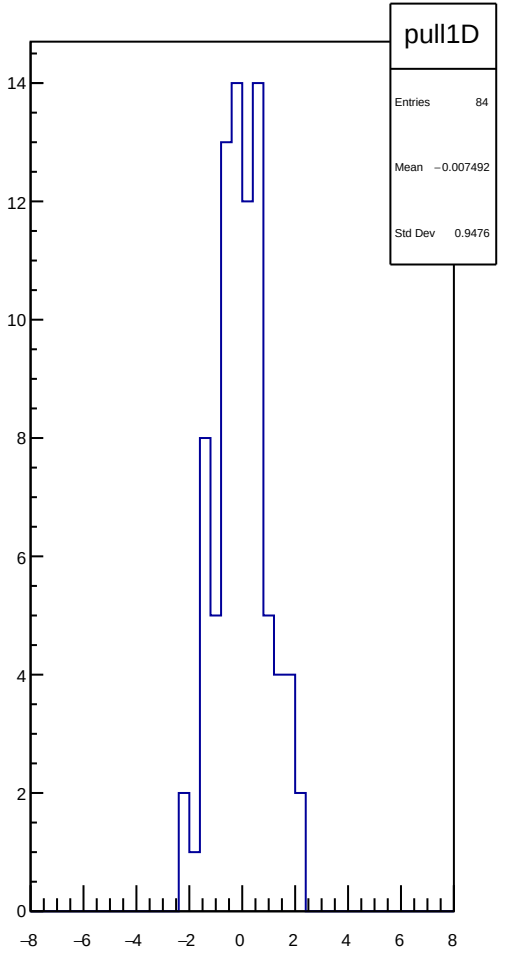

asym_at1_dd_correction_rms vs run
χ² / ndf 1.35e+04 / 83
p0 454.6 ± 0.3582
600
550
500
450
400
350

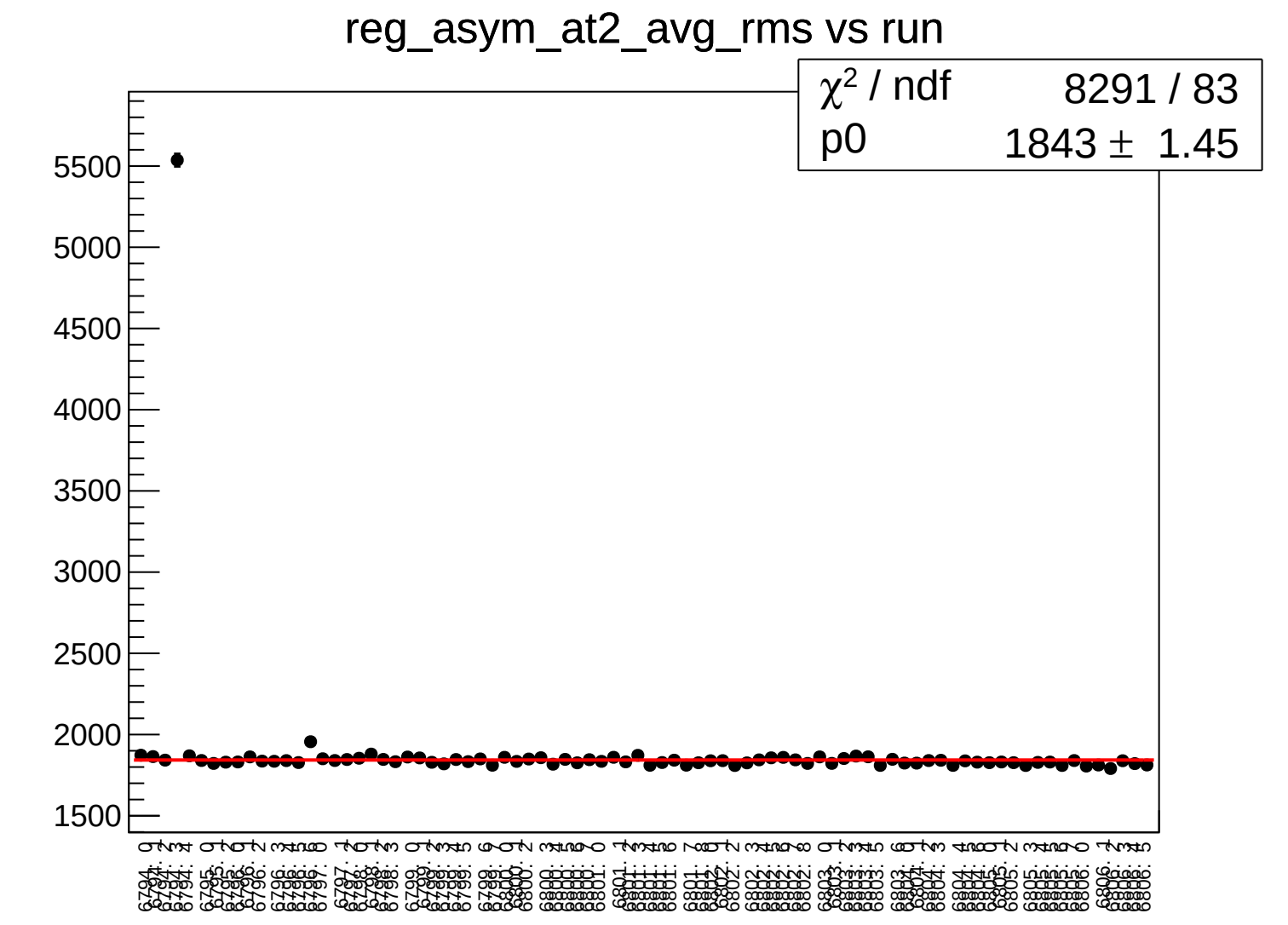

asym_at1_dd_mean vs run
×10^3
χ² / ndf 99.1 / 83
p0 −2384 ± 2114
100
50
0
−50
−100
pull
Entries 84
Mean 370.2
Std Dev 356.9
3
2
1
0
−1
−2
−3

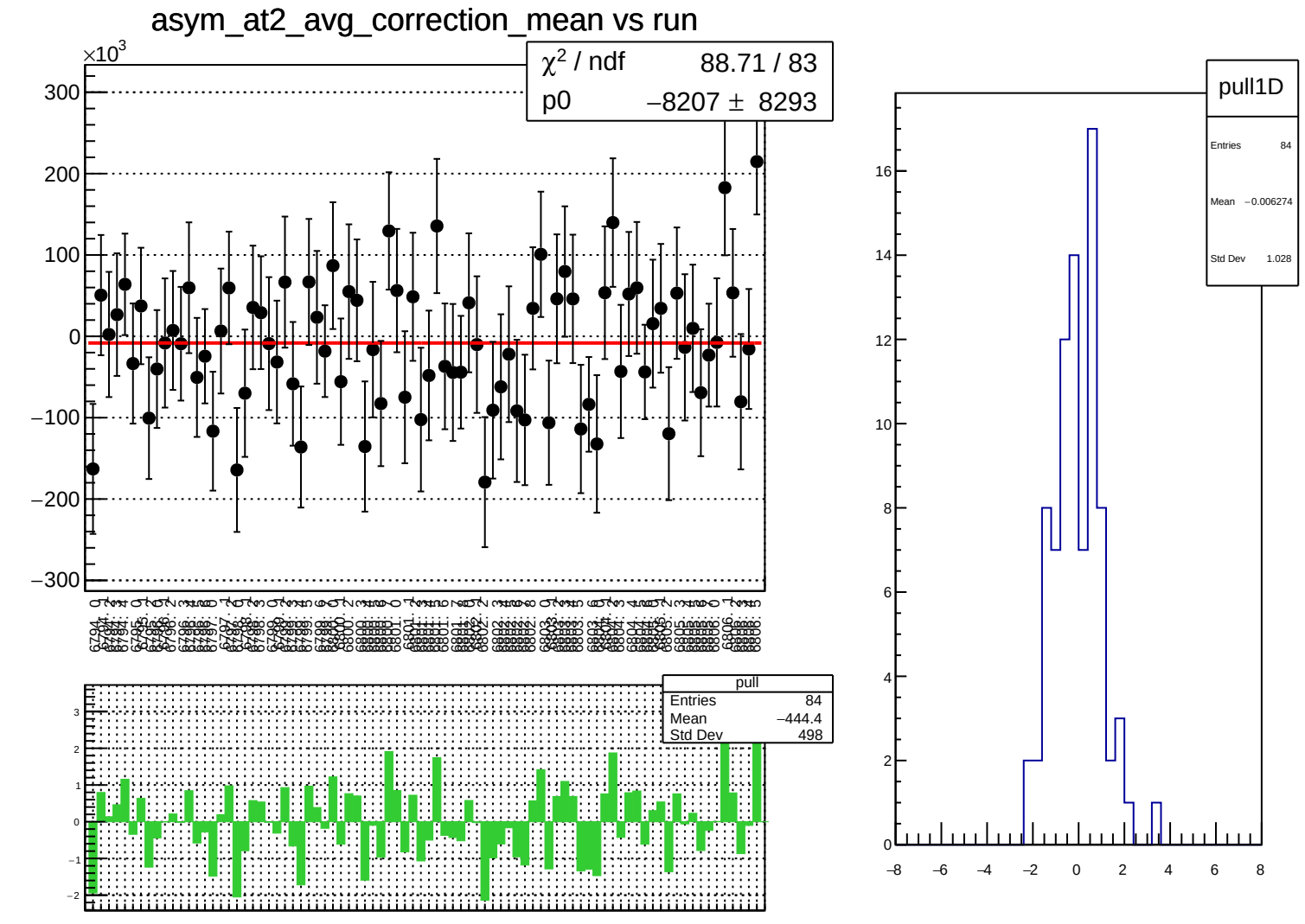

pull1D
Entries 84
Mean −0.004801
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

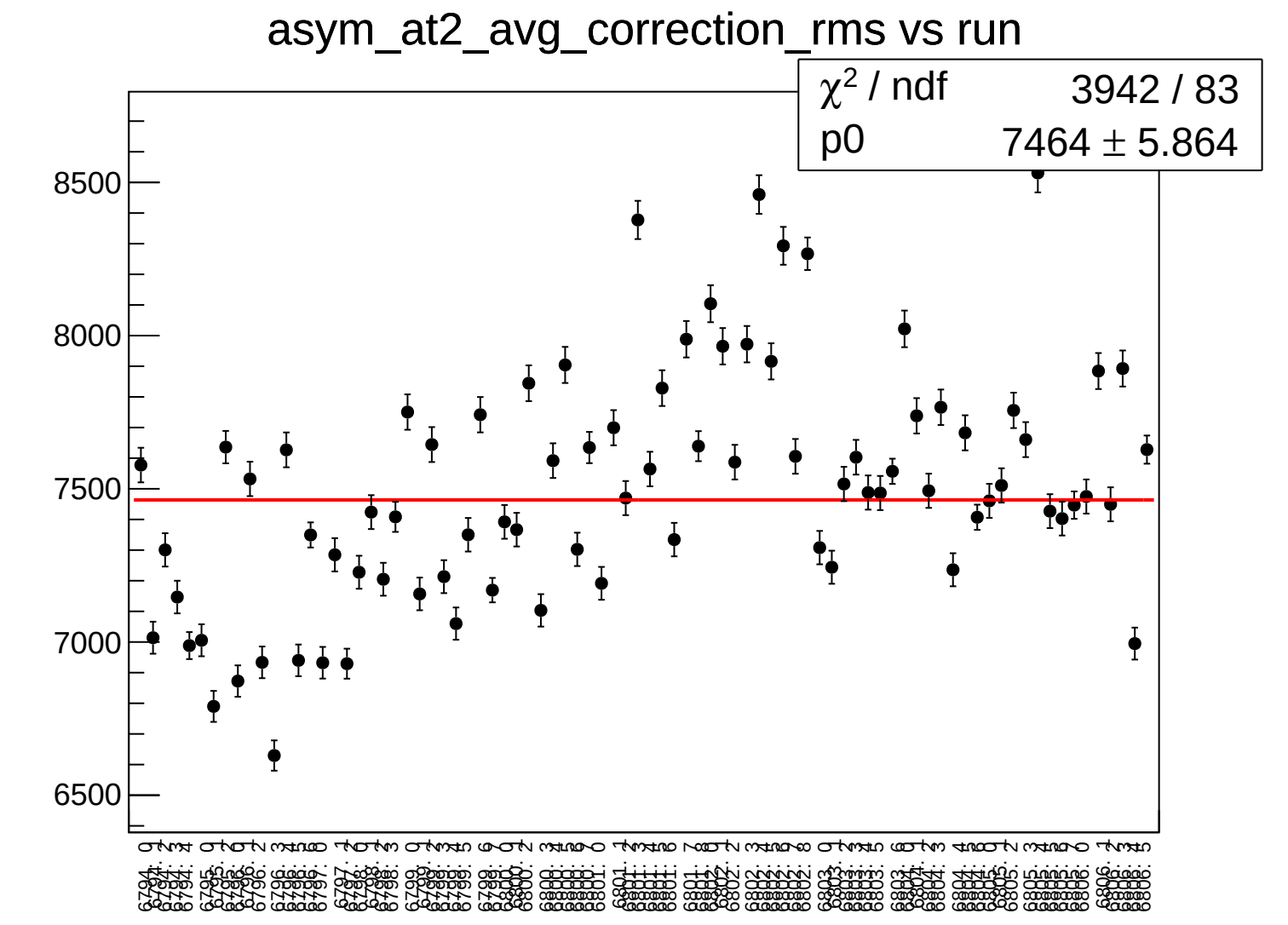

asym_at1_dd_rms vs run
χ² / ndf 2.397e+04 / 83
p0 1891 ± 1.495
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

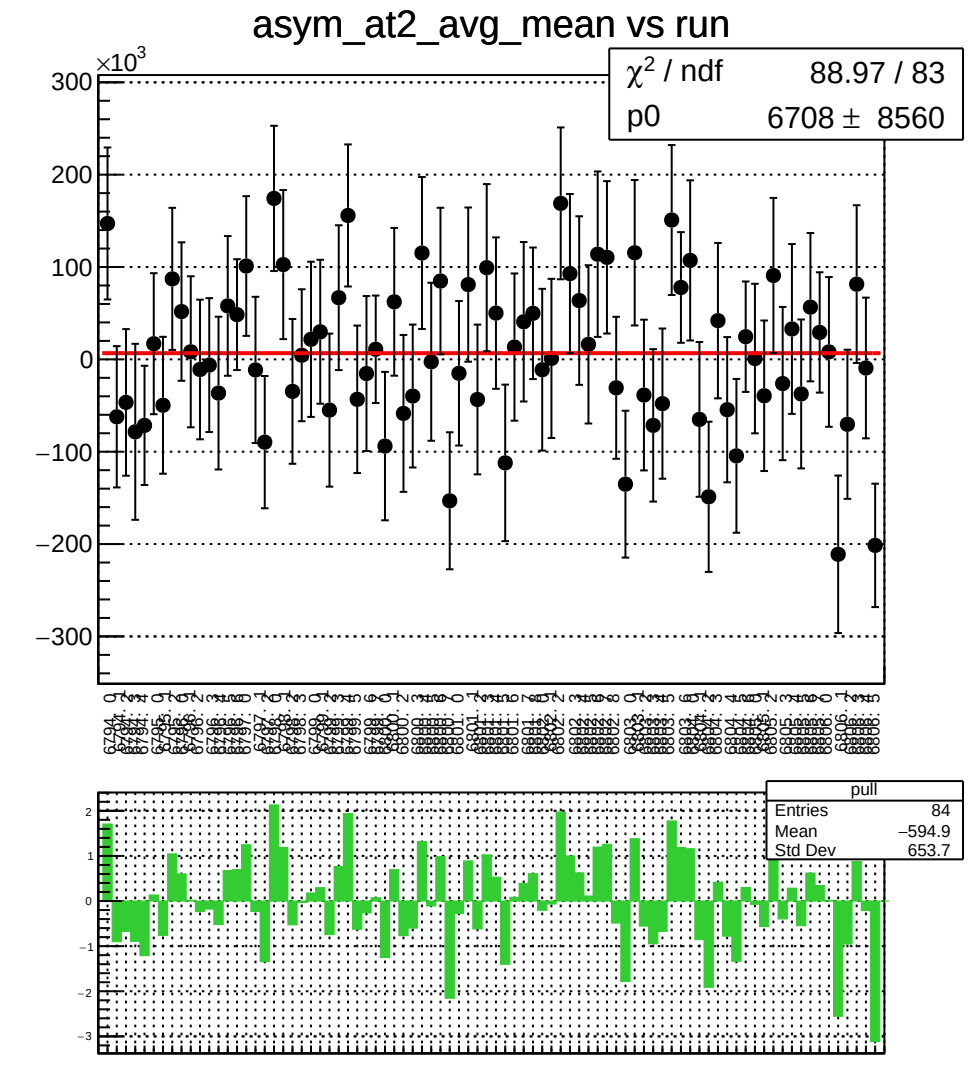

reg_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 75.43 / 83
p0 −1150 ± 2051
pull
Entries 84
Mean 192.3
Std Dev 62.28

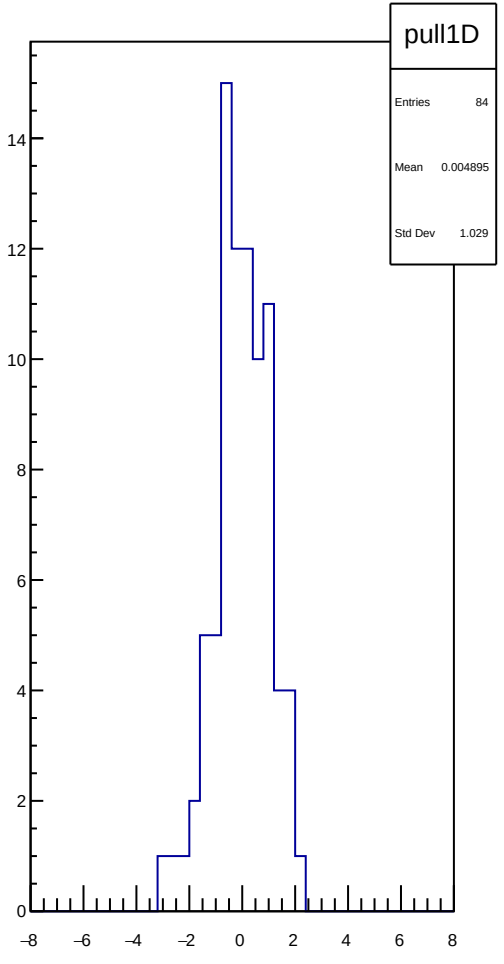

pull1D
Entries 84
Mean −0.007492
Std Dev 0.9476

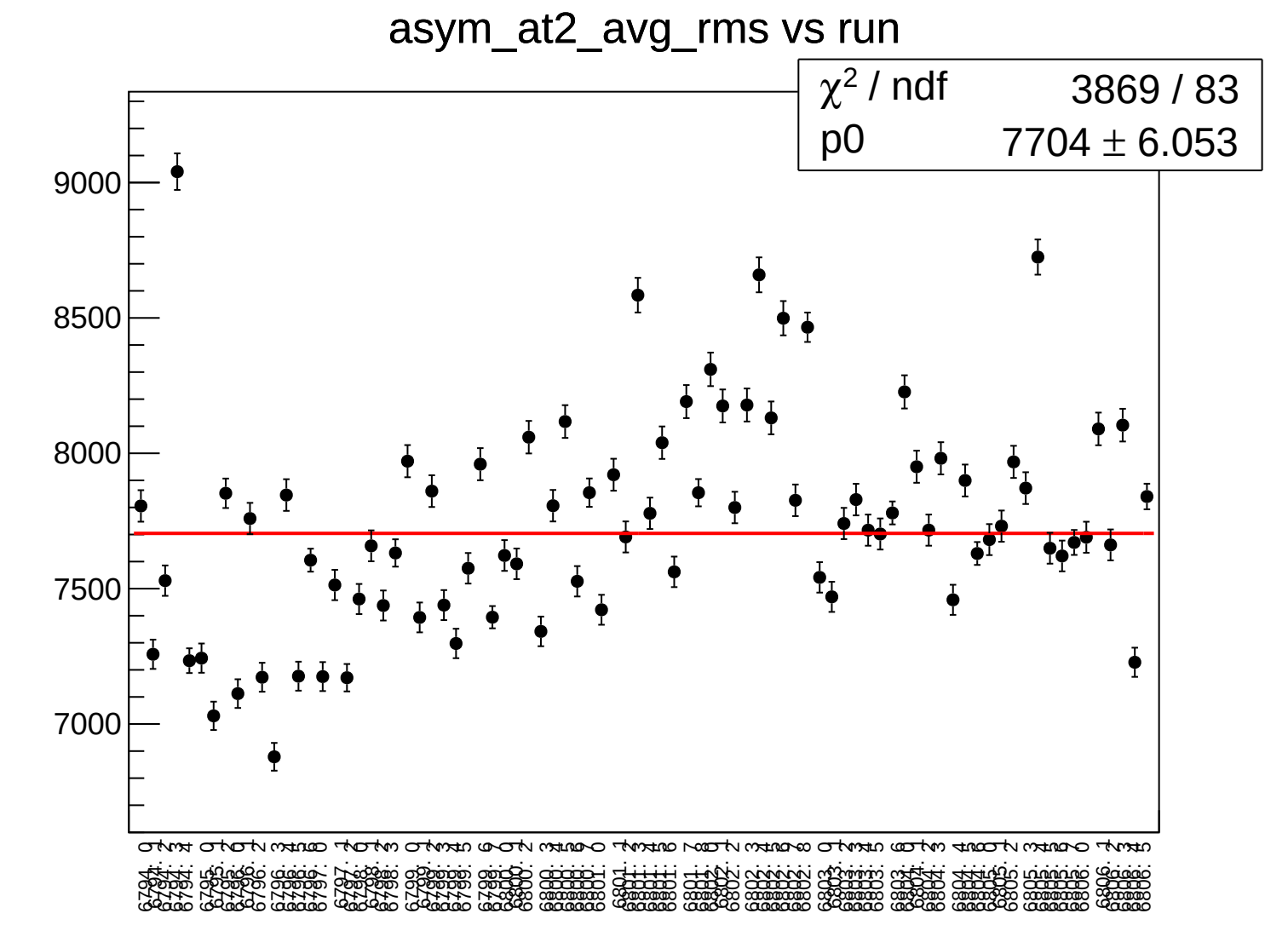

reg_asym_at2_avg_rms vs run
χ² / ndf 8291 / 83
p0 1843 ± 1.45
5500
5000
4500
4000
3500
3000
2500
2000
1500

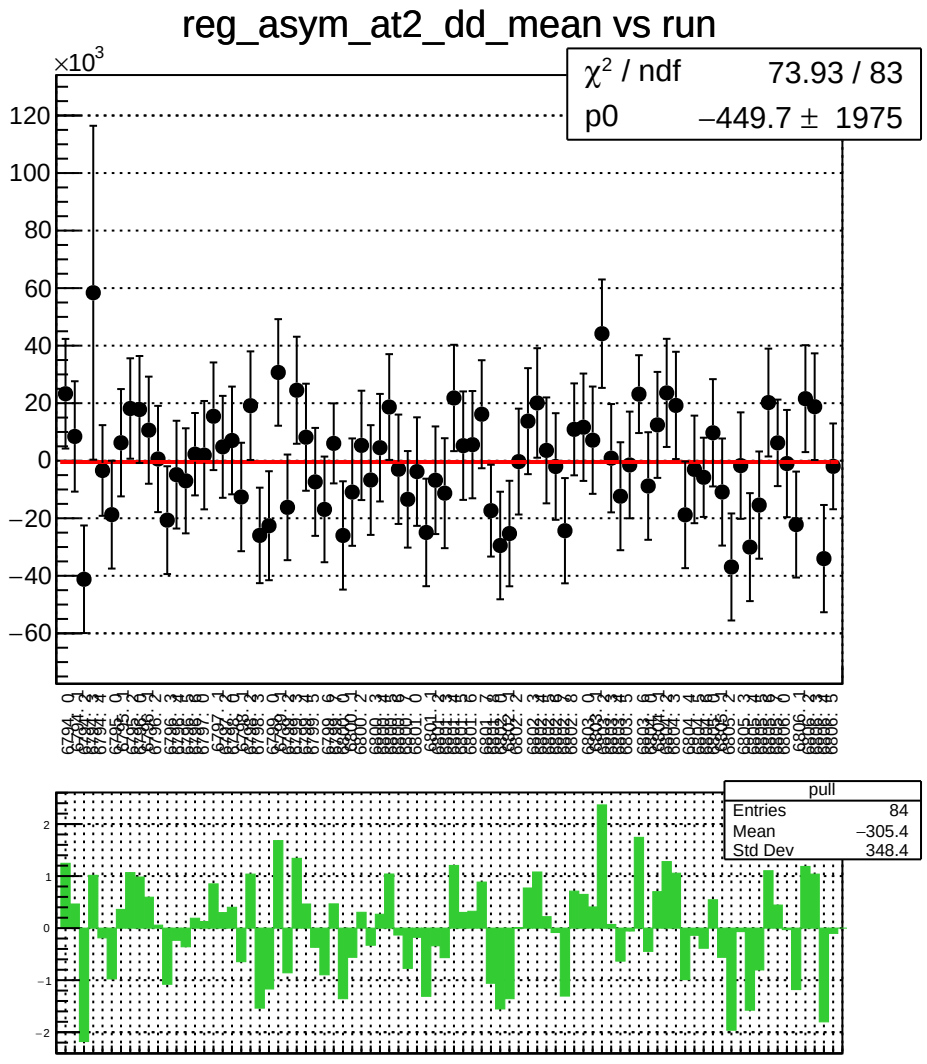

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 88.71 / 83
p0 −8207 ± 8293
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −444.4
Std Dev 498
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.006274
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

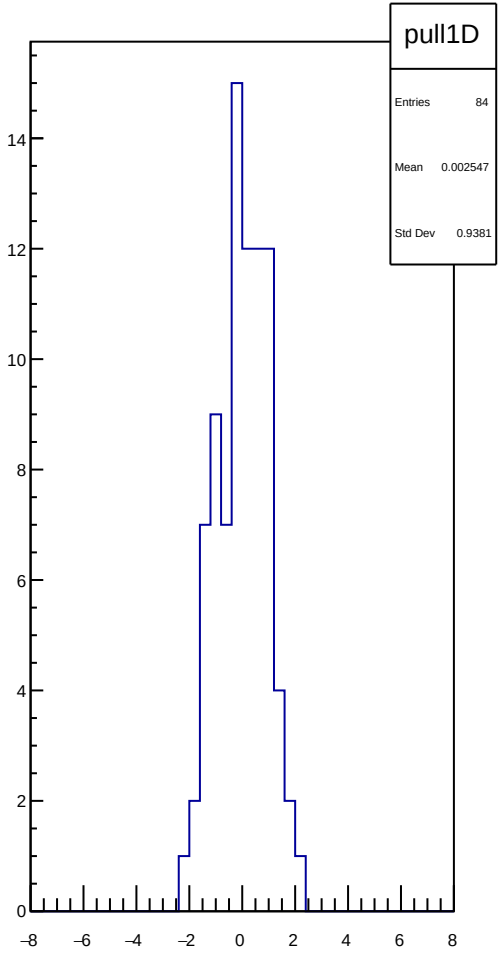

asym_at2_avg_correction_rms vs run
χ² / ndf 3942 / 83
p0 7464 ± 5.864
8500
8000
7500
7000
6500

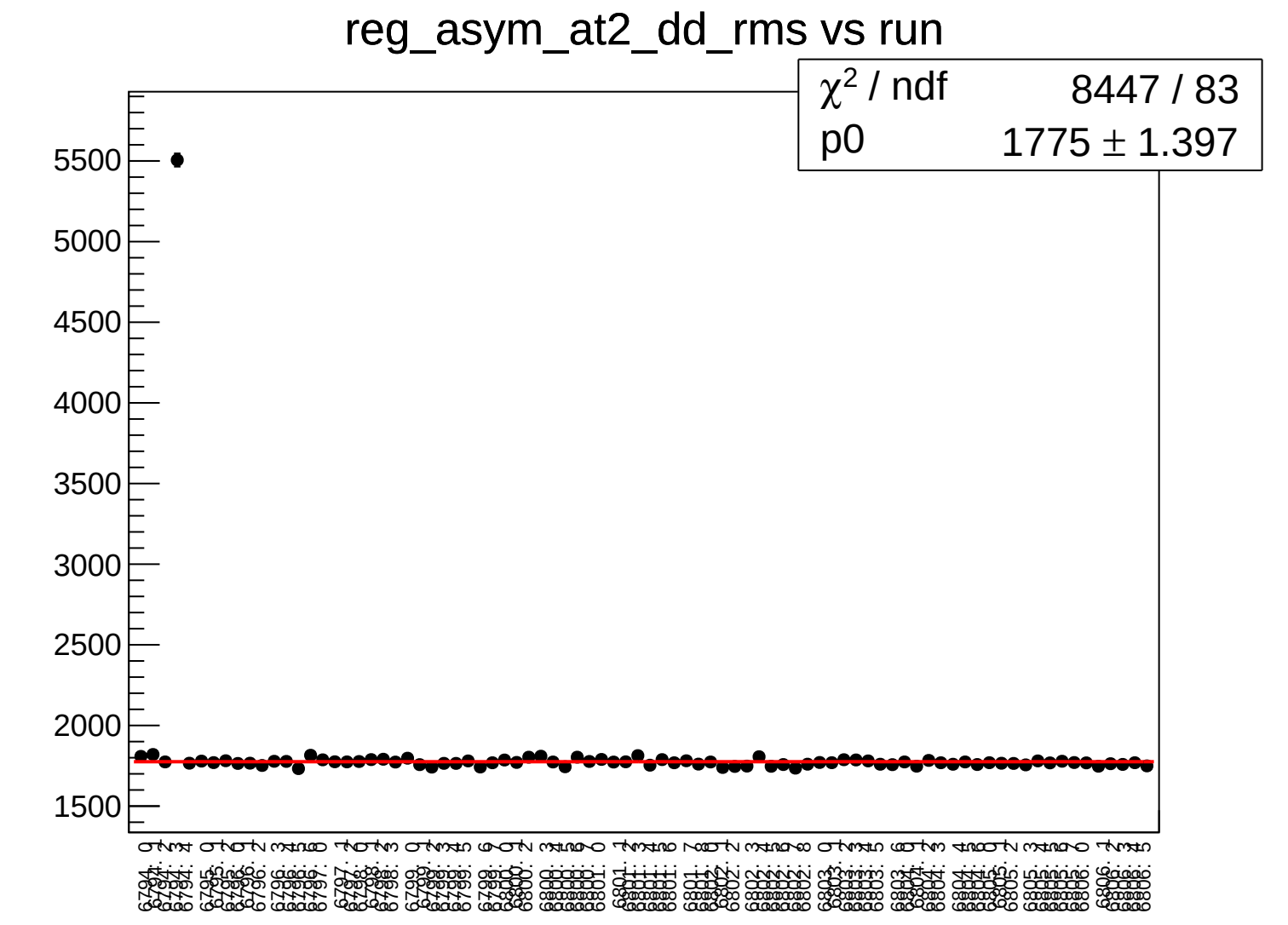

asym_at2_avg_mean vs run
χ² / ndf 88.97 / 83
p0 6708 ± 8560
×10³
pull
Entries 84
Mean −594.9
Std Dev 653.7

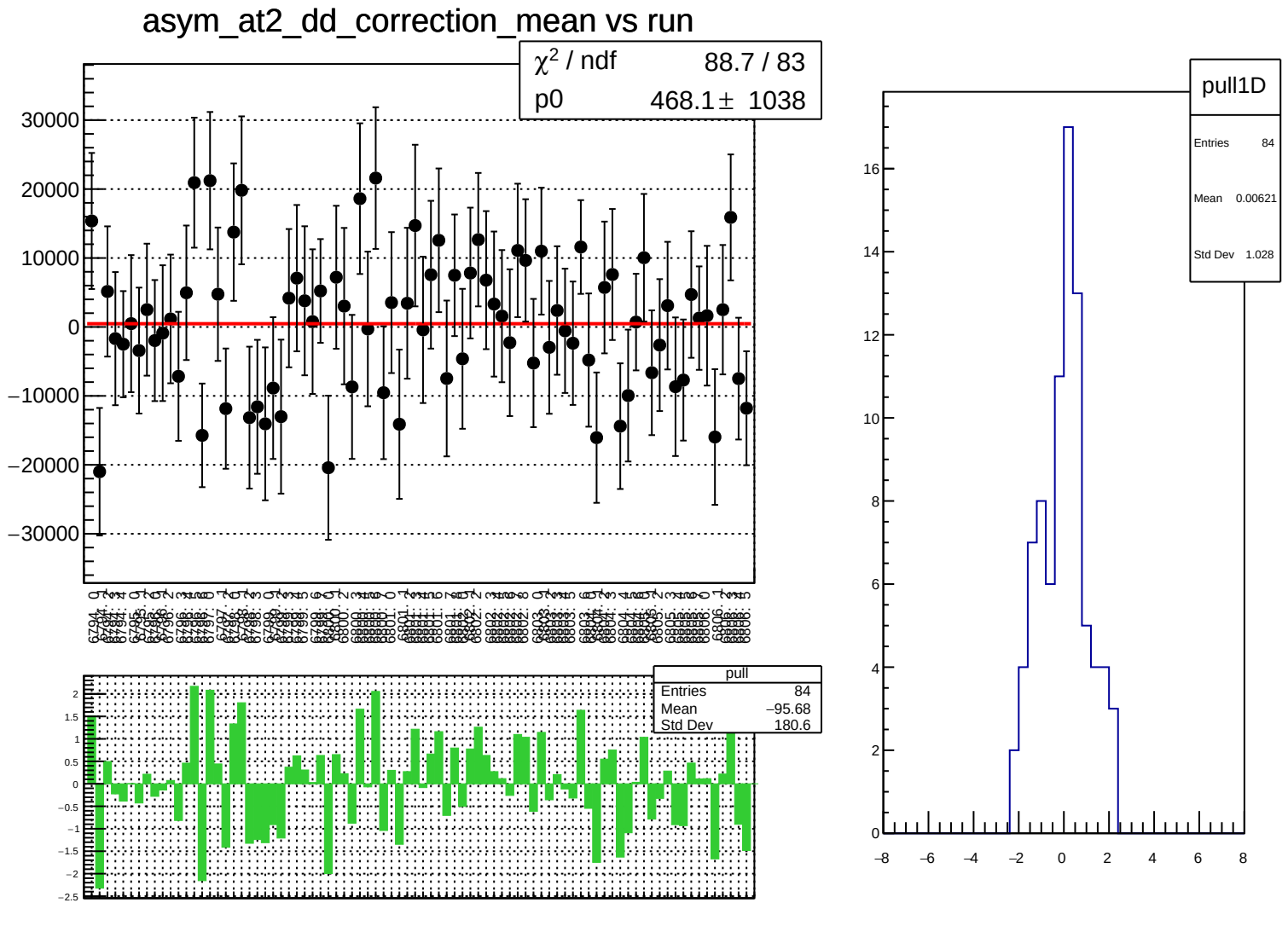

pull1D
Entries 84
Mean 0.004895
Std Dev 1.029

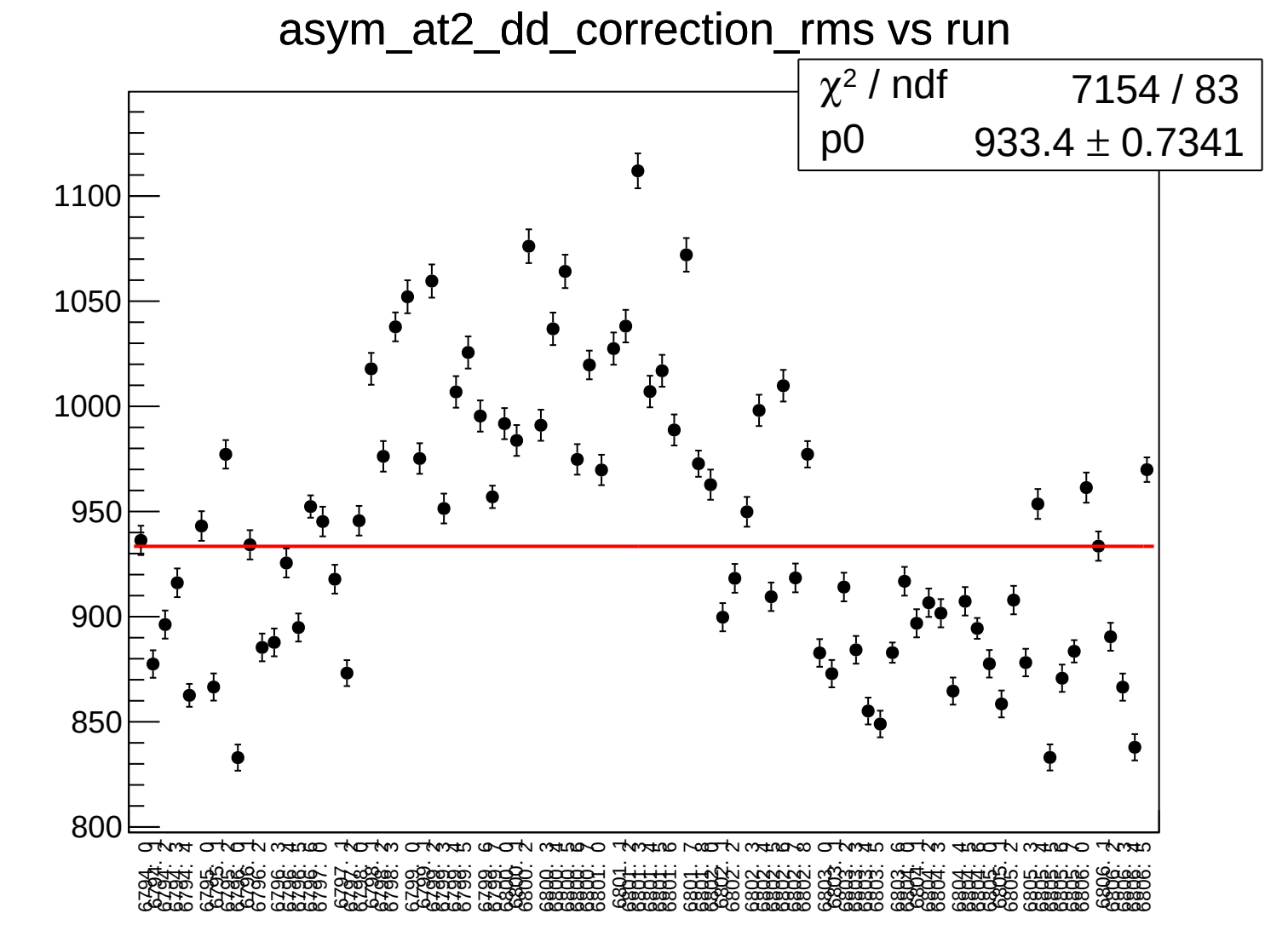

asym_at2_avg_rms vs run
χ^2 / ndf 3869 / 83
p0 7704 ± 6.053
9000
8500
8000
7500
7000

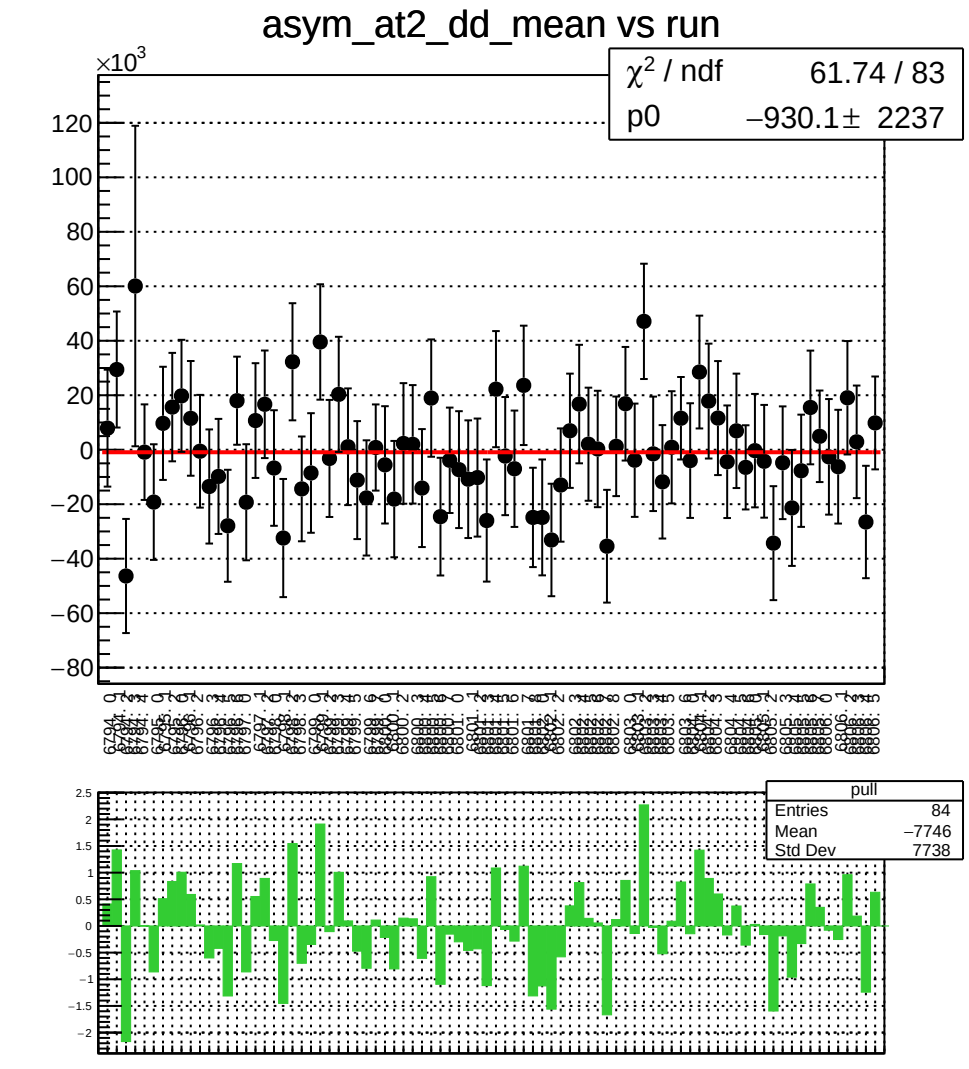

reg_asym_at2_dd_mean vs run
×10^3
χ² / ndf 73.93 / 83
p0 −449.7 ± 1975
pull
Entries 84
Mean −305.4
Std Dev 348.4

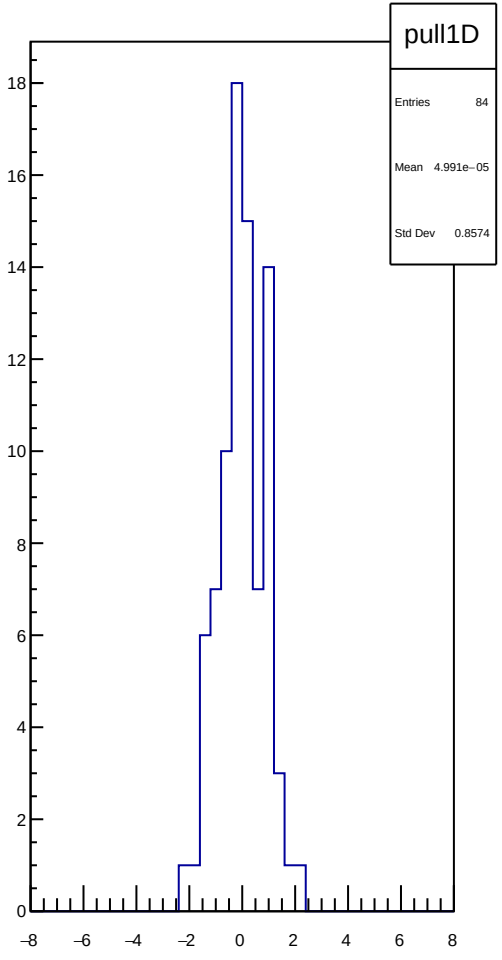

pull1D
Entries 84
Mean 0.002547
Std Dev 0.9381

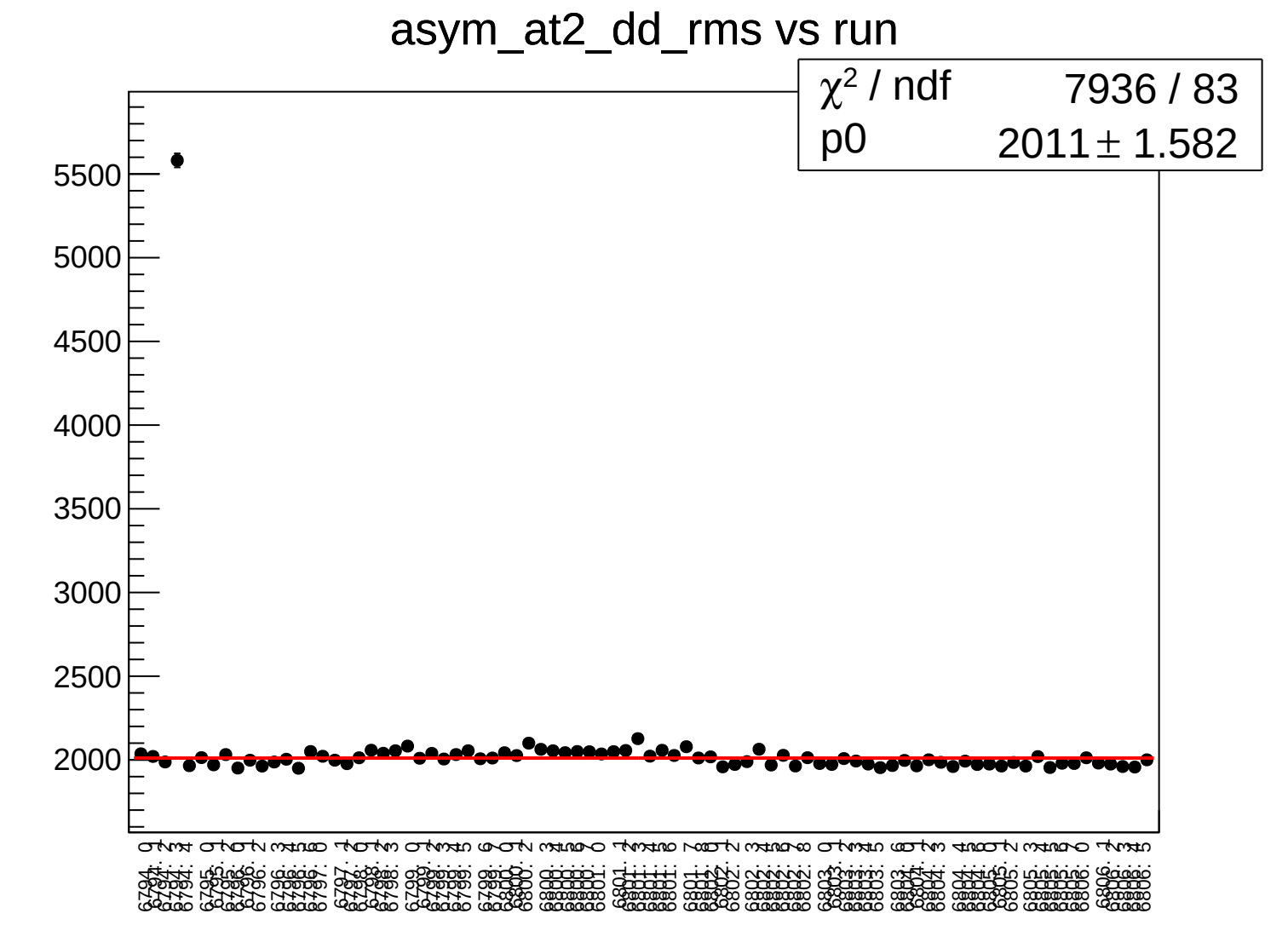

reg_asym_at2_dd_rms vs run
χ^2 / ndf 8447 / 83
p0 1775 ± 1.397
5500
5000
4500
4000
3500
3000
2500
2000
1500

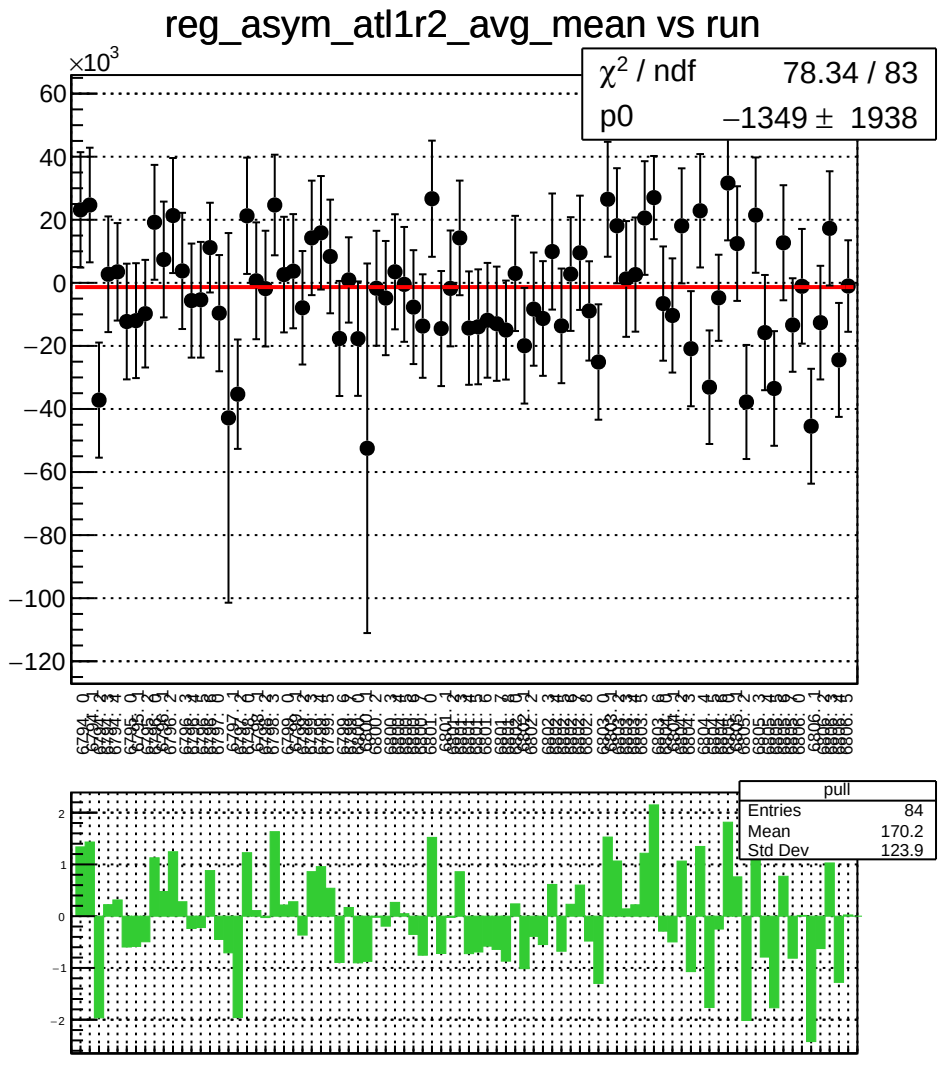

asym_at2_dd_correction_mean vs run
χ² / ndf 88.7 / 83
p0 468.1 ± 1038
pull
Entries 84
Mean −95.68
Std Dev 180.6
pull1D
Entries 84
Mean 0.00621
Std Dev 1.028

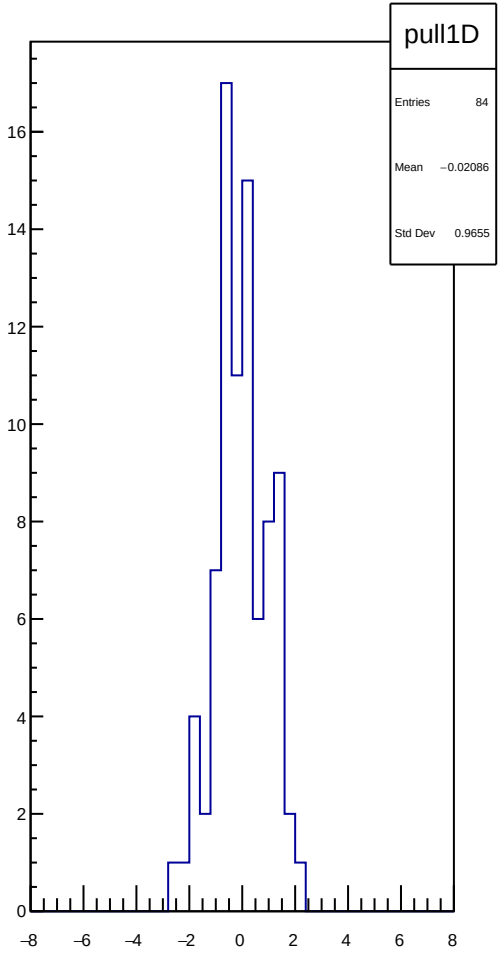

asym_at2_dd_correction_rms vs run
χ² / ndf 7154 / 83
p0 933.4 ± 0.7341
1100
1050
1000
950
900
850
800

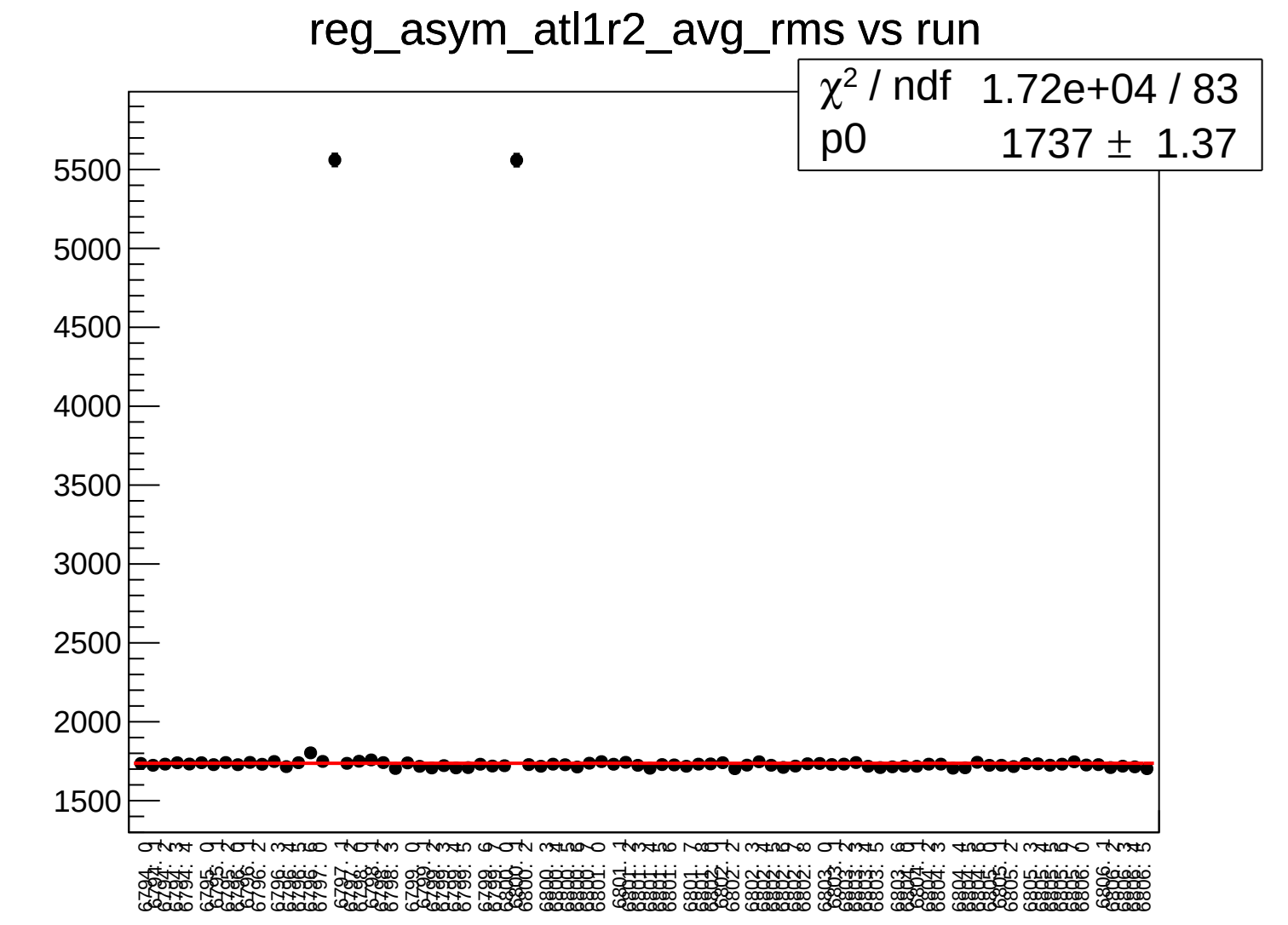

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 61.74 / 83
p0 −930.1± 2237
pull
Entries 84
Mean −7746
Std Dev 7738

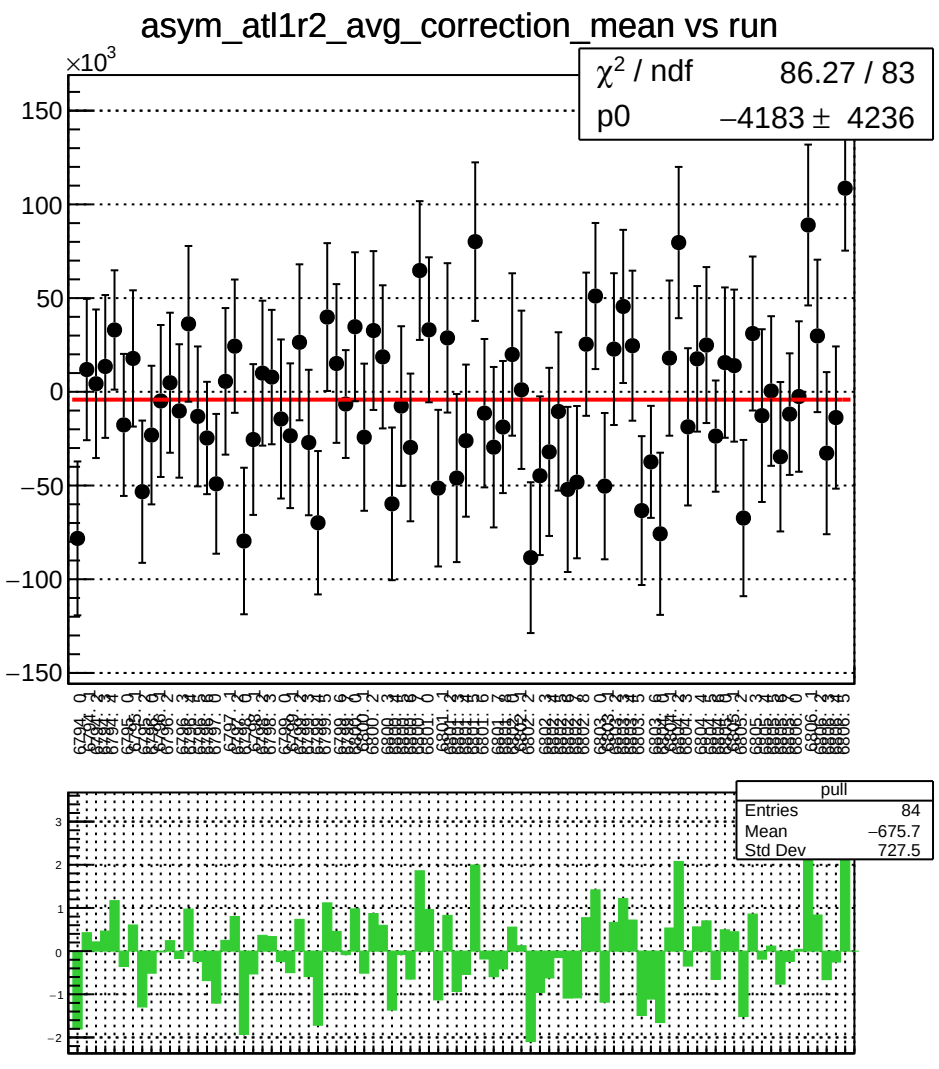

pull1D
Entries 84
Mean 4.991e−05
Std Dev 0.8574

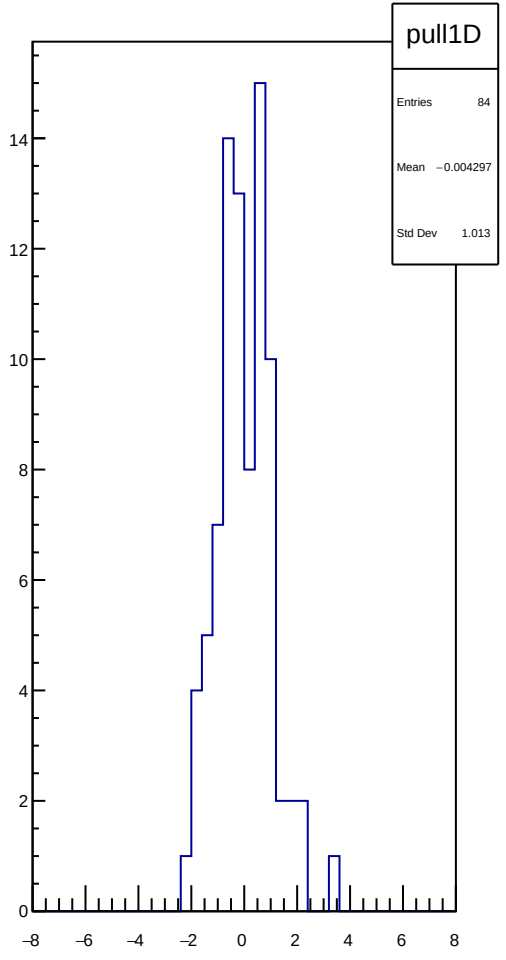

asym_at2_dd_rms vs run
χ^2 / ndf 7936 / 83
p0 2011 ± 1.582
5500
5000
4500
4000
3500
3000
2500
2000

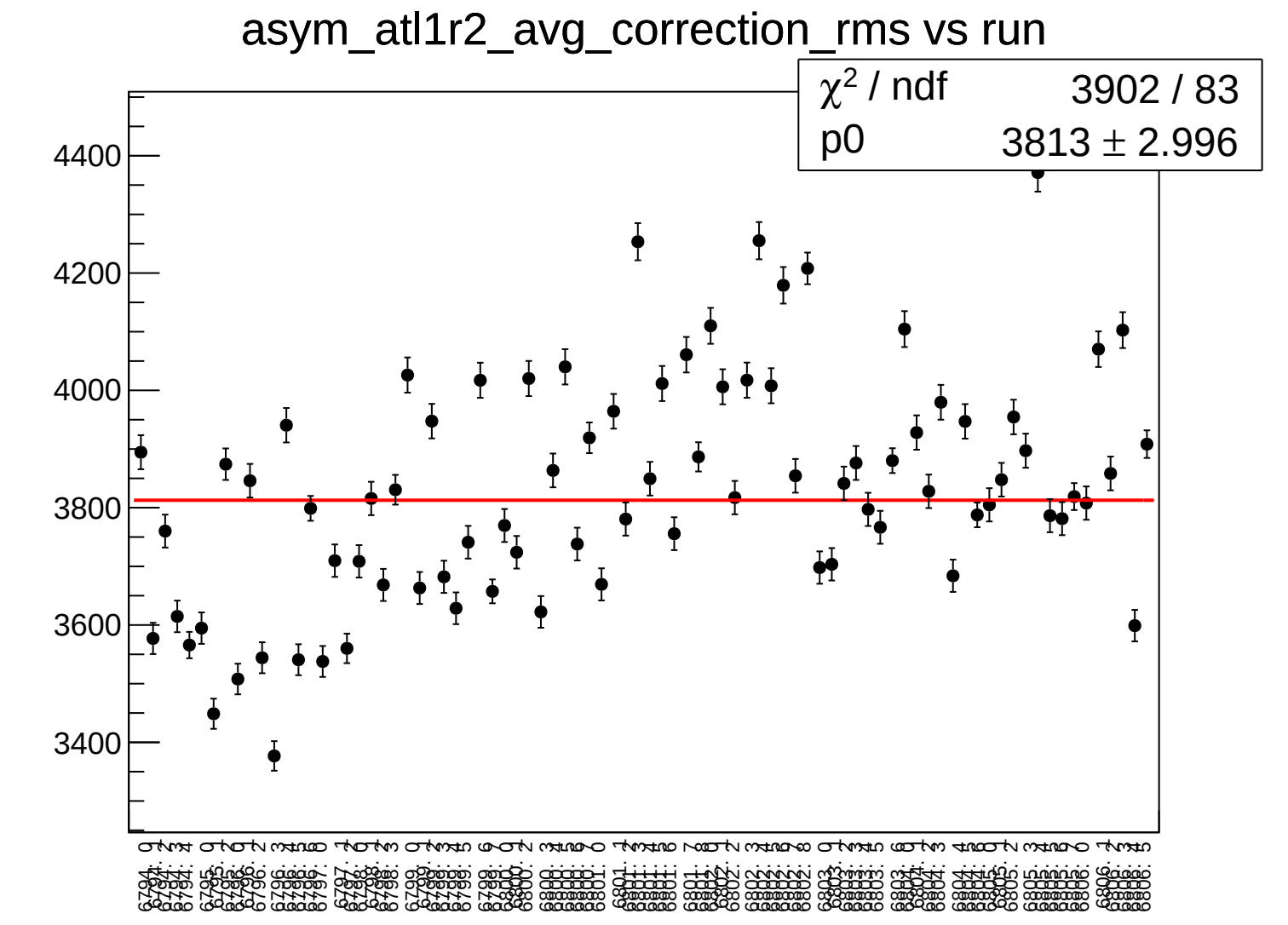

reg_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 78.34 / 83
p0 −1349 ± 1938
pull
Entries 84
Mean 170.2
Std Dev 123.9

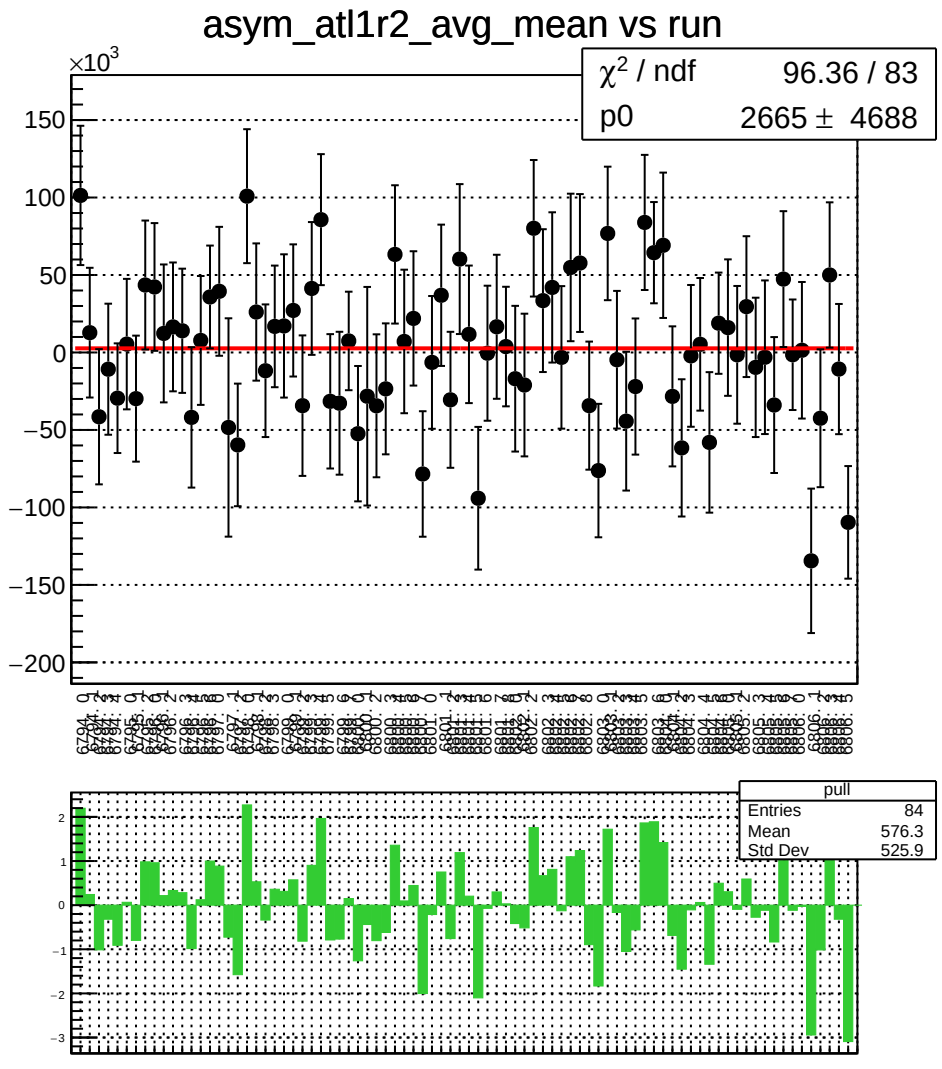

pull1D
Entries 84
Mean −0.02086
Std Dev 0.9655

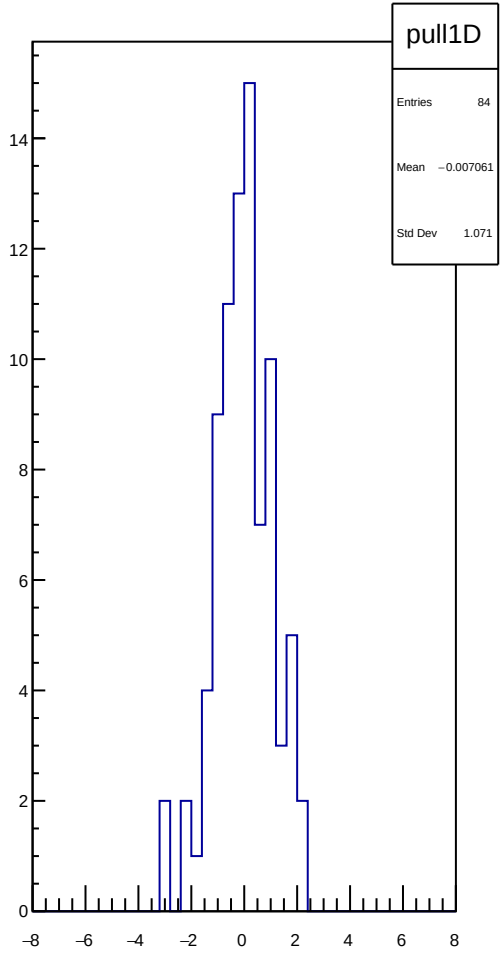

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 1.72e+04 / 83
p0 1737 ± 1.37
5500
5000
4500
4000
3500
3000
2500
2000
1500

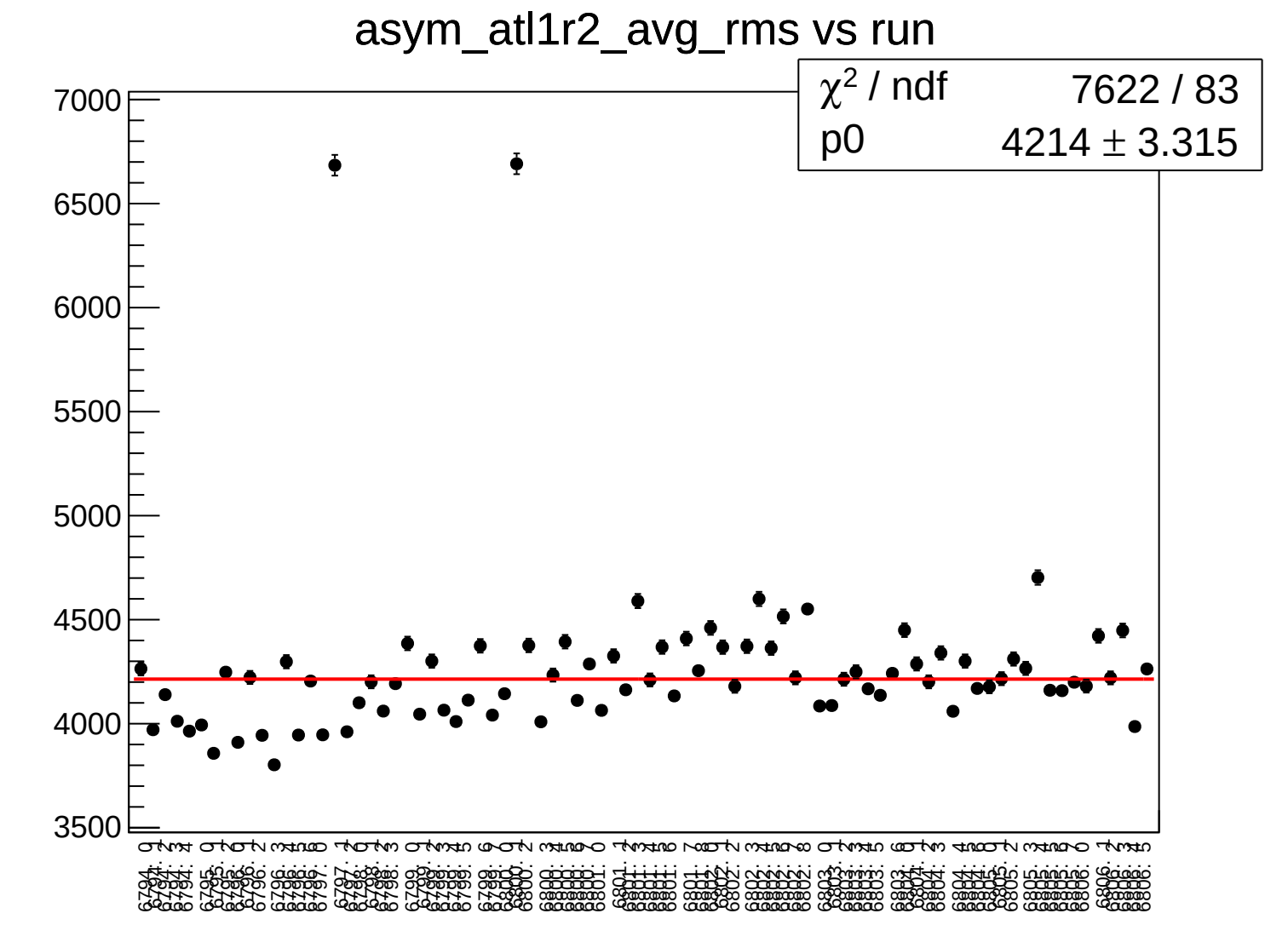

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 86.27 / 83
p0 −4183 ± 4236
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −675.7
Std Dev 727.5
3
2
1
0
−1
−2

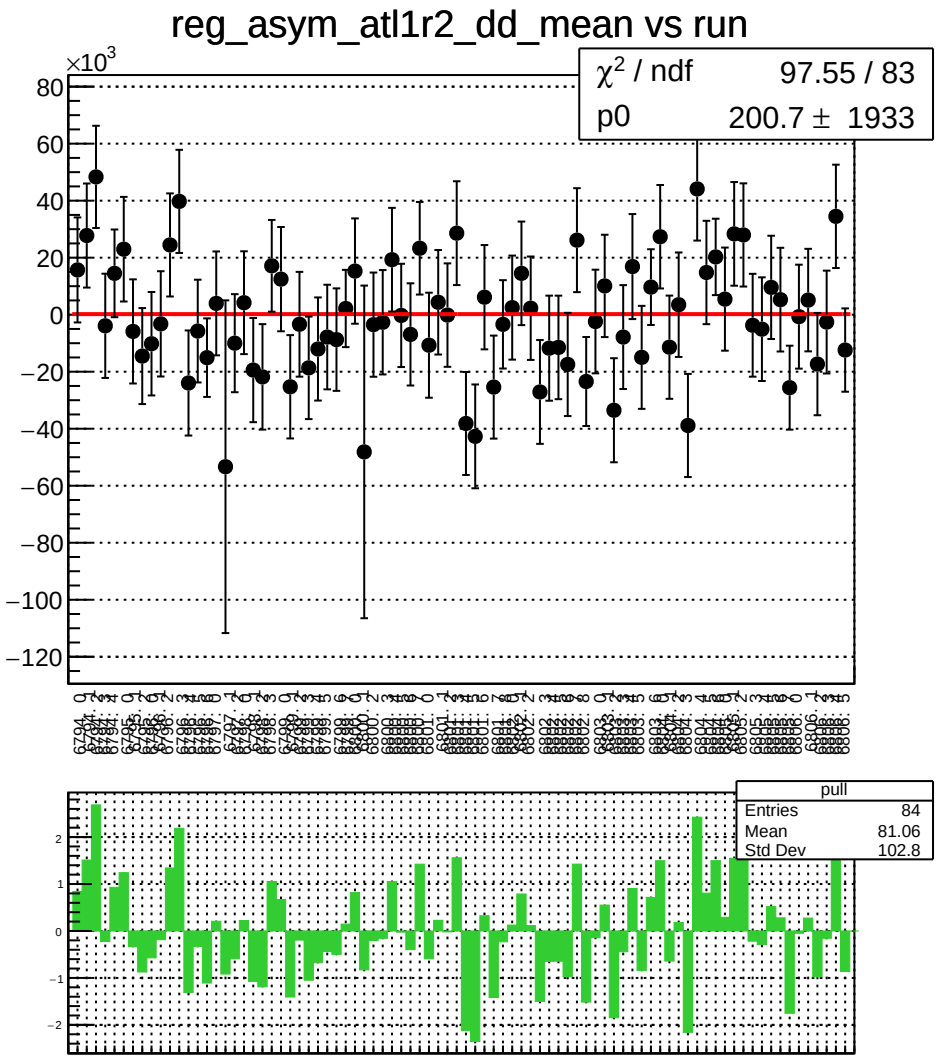

pull1D
Entries 84
Mean −0.004297
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

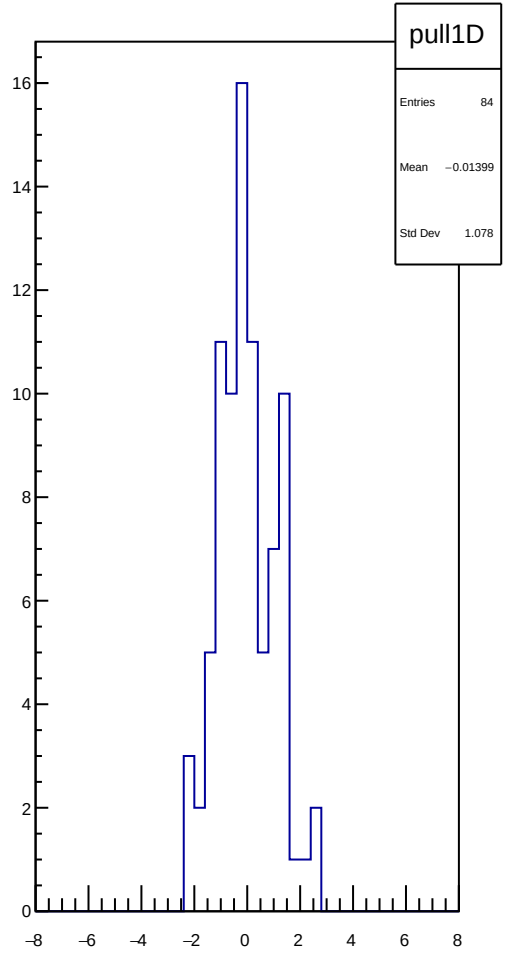

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 3902 / 83
p0 3813 ± 2.996
4400
4200
4000
3800
3600
3400

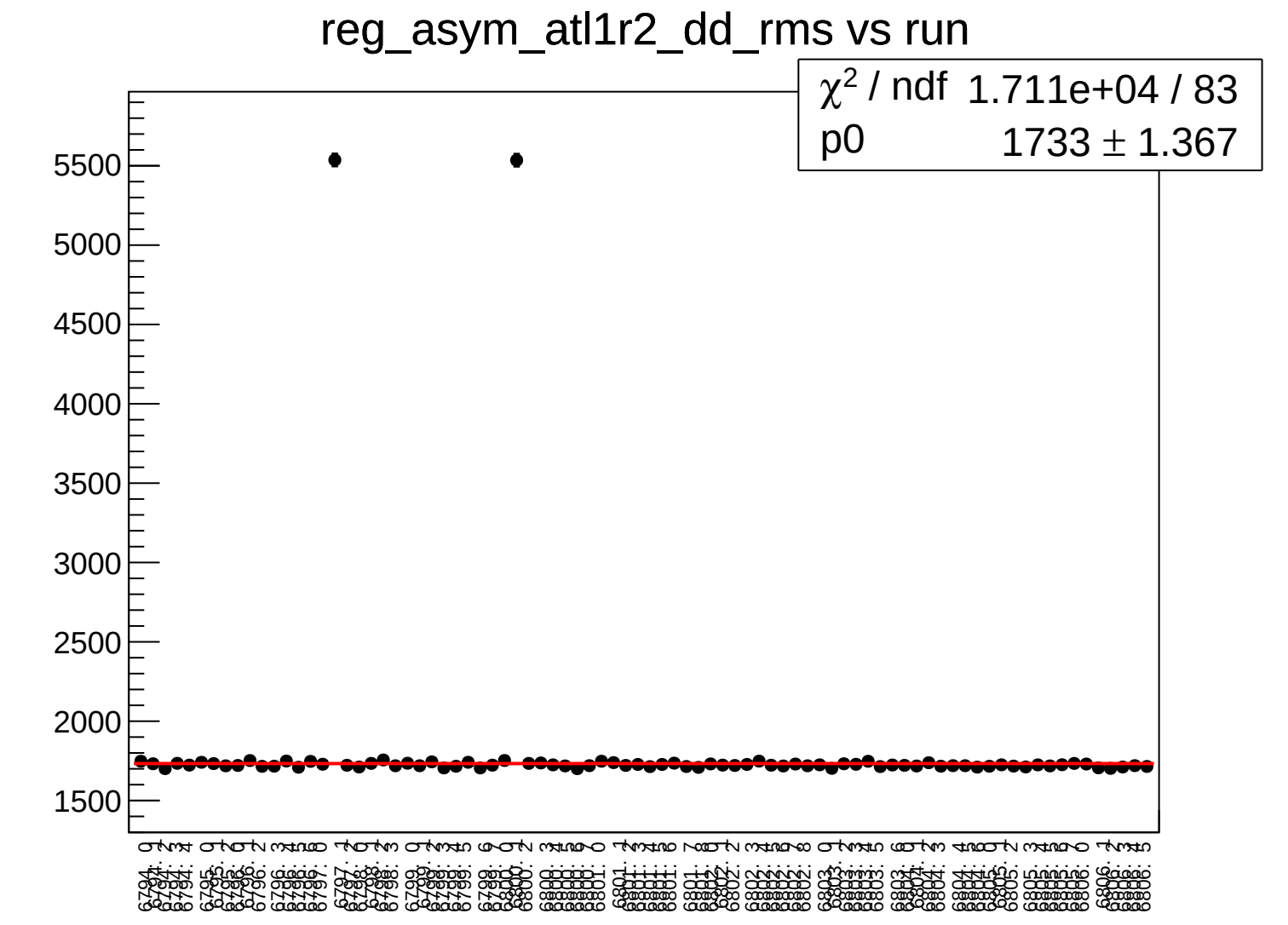

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 96.36 / 83
p0 2665 ± 4688
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 576.3
Std Dev 525.9
2
1
0
−1
−2
−3

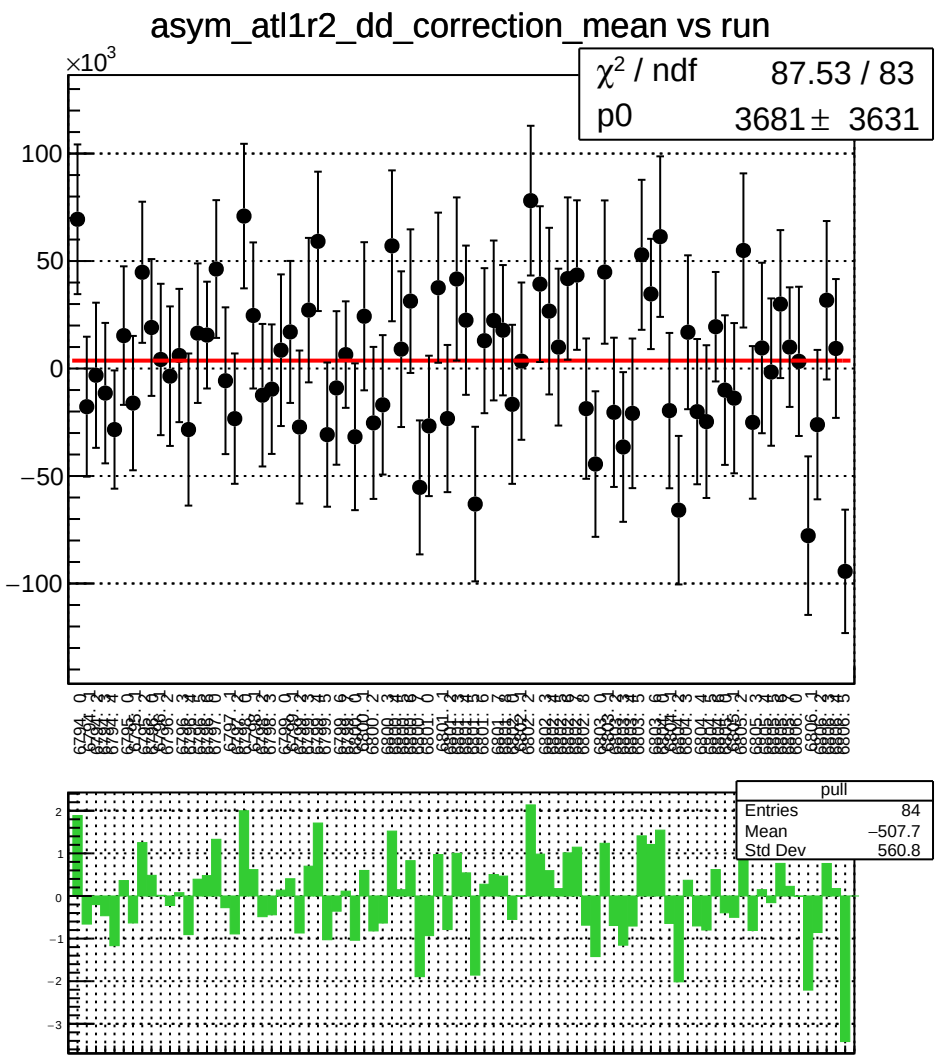

pull1D
Entries 84
Mean −0.007061
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

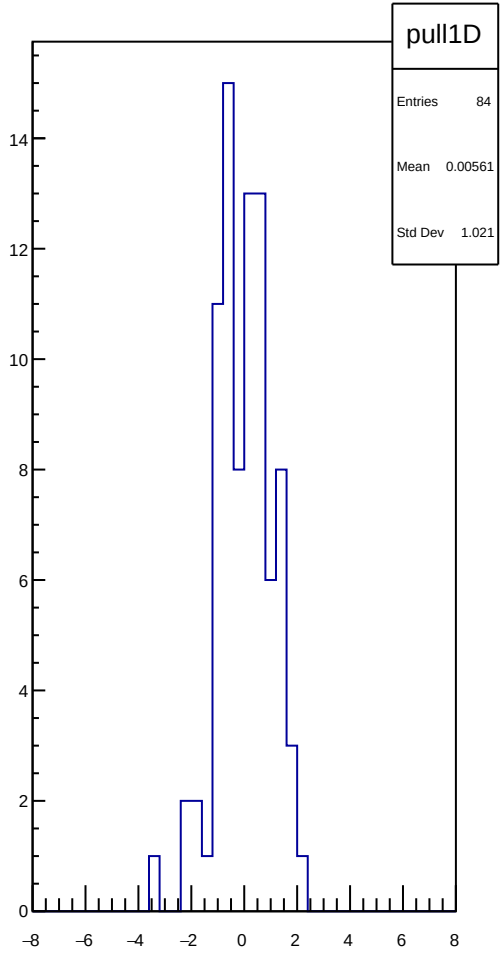

asym_atl1r2_avg_rms vs run
χ^2 / ndf 7622 / 83
p0 4214 ± 3.315
7000
6500
6000
5500
5000
4500
4000
3500

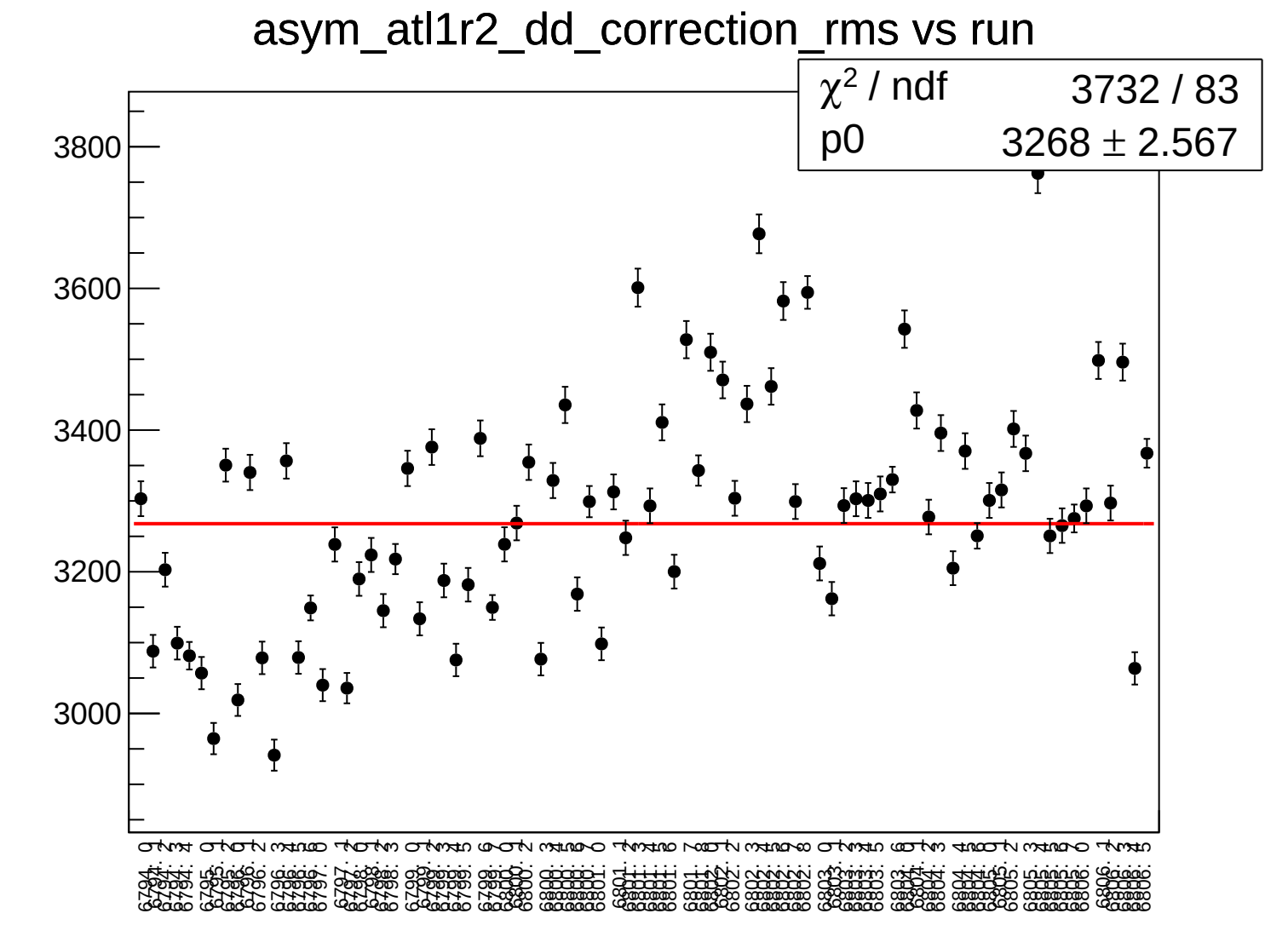

reg_asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 97.55 / 83
p0 200.7 ± 1933
pull
Entries 84
Mean 81.06
Std Dev 102.8

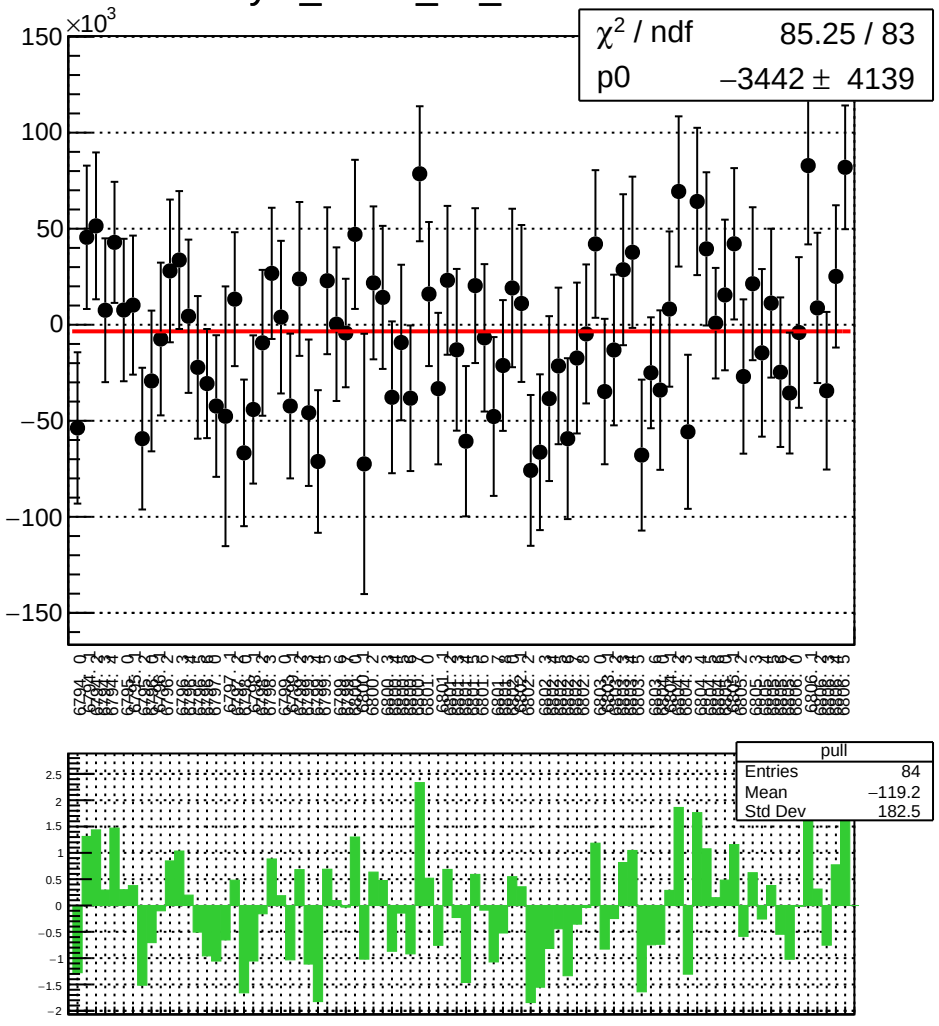

pull1D
Entries 84
Mean −0.01399
Std Dev 1.078

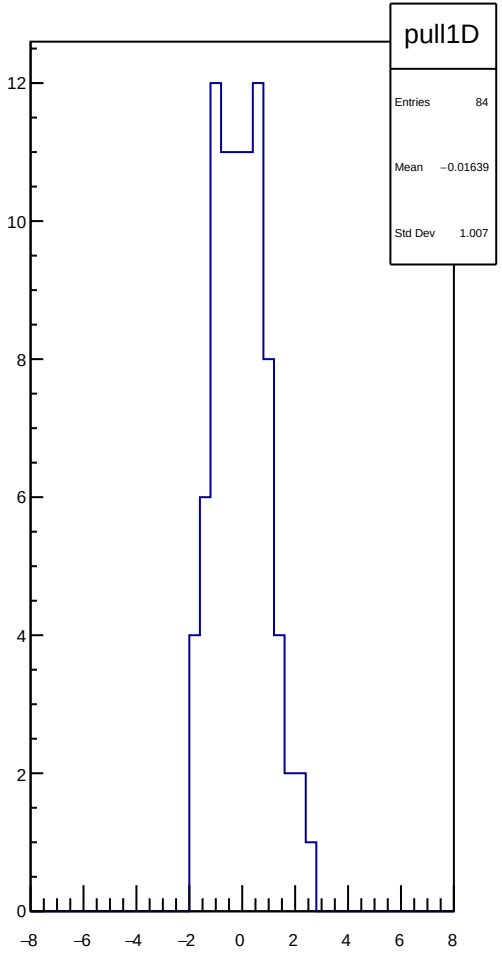

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 1.711e+04 / 83
p0 1733 ± 1.367
5500
5000
4500
4000
3500
3000
2500
2000
1500

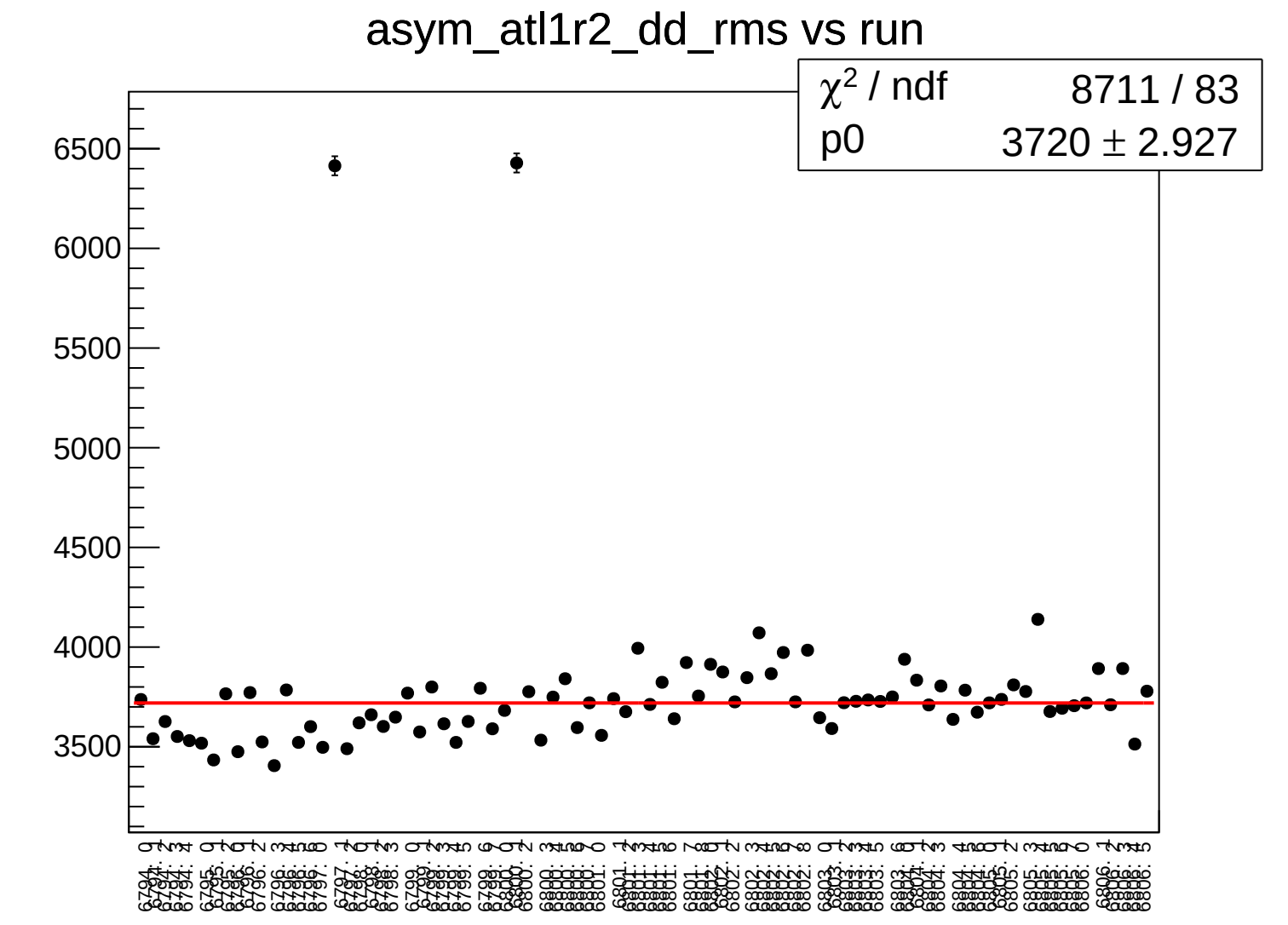

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 87.53 / 83
p0 3681 ± 3631
100
50
0
−50
−100
pull
Entries 84
Mean −507.7
Std Dev 560.8
2
1
0
−1
−2
−3

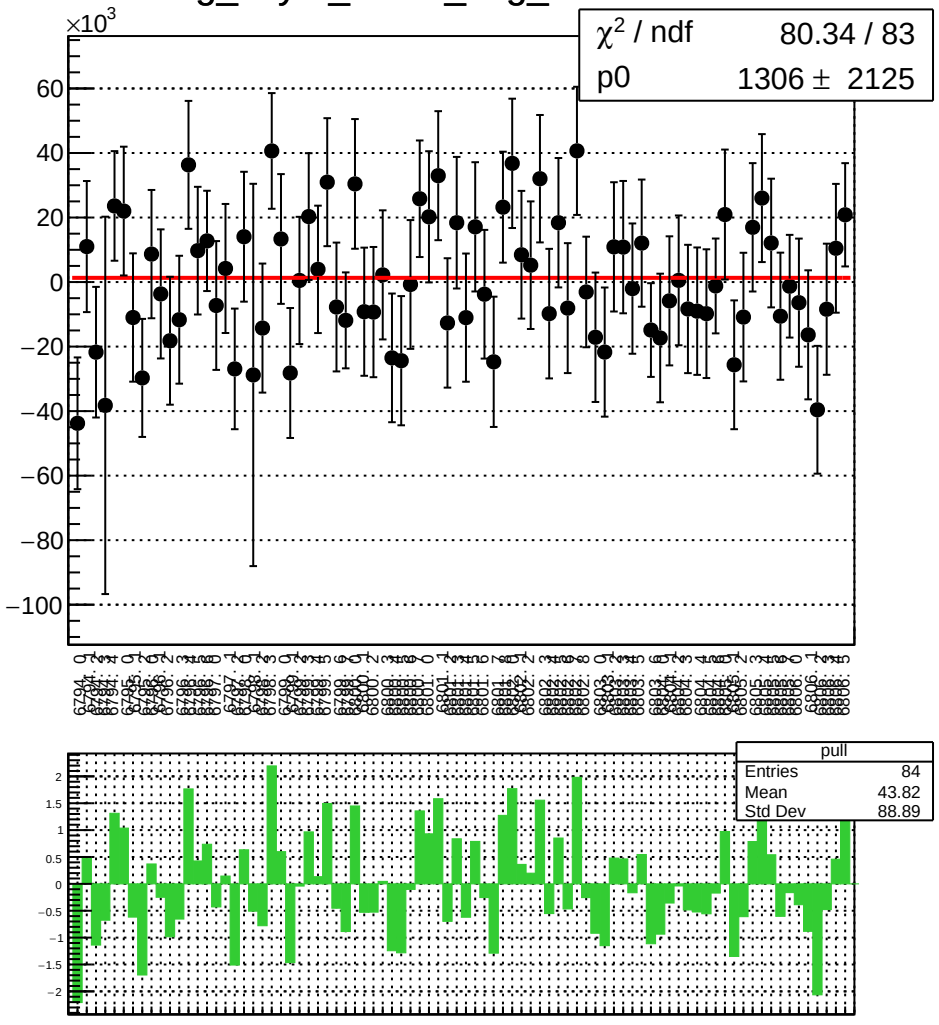

pull1D
Entries 84
Mean 0.00561
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

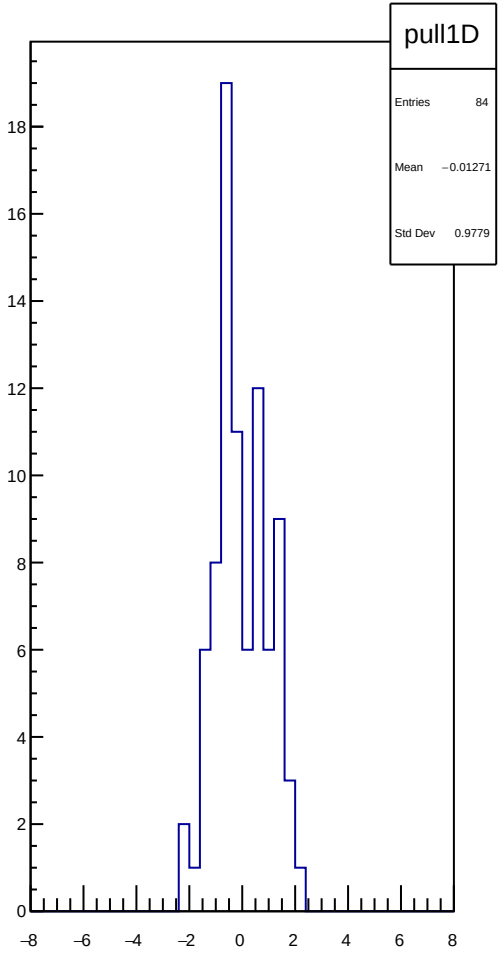

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 3732 / 83
p0 3268 ± 2.567
3800
3600
3400
3200
3000

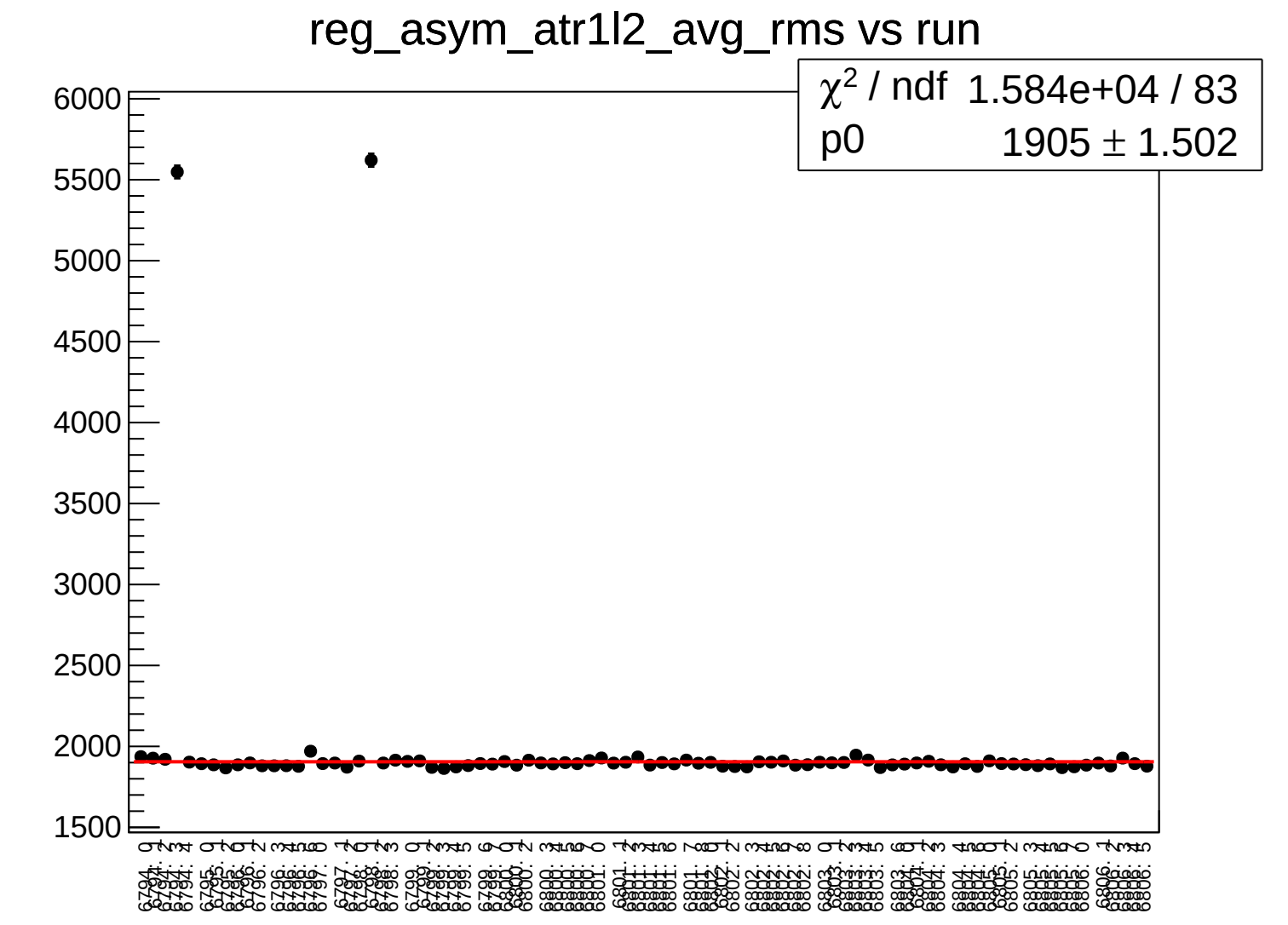

asym_atl1r2_dd_mean vs run
χ² / ndf 85.25 / 83
p0 −3442 ± 4139
×10³
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −119.2
Std Dev 182.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

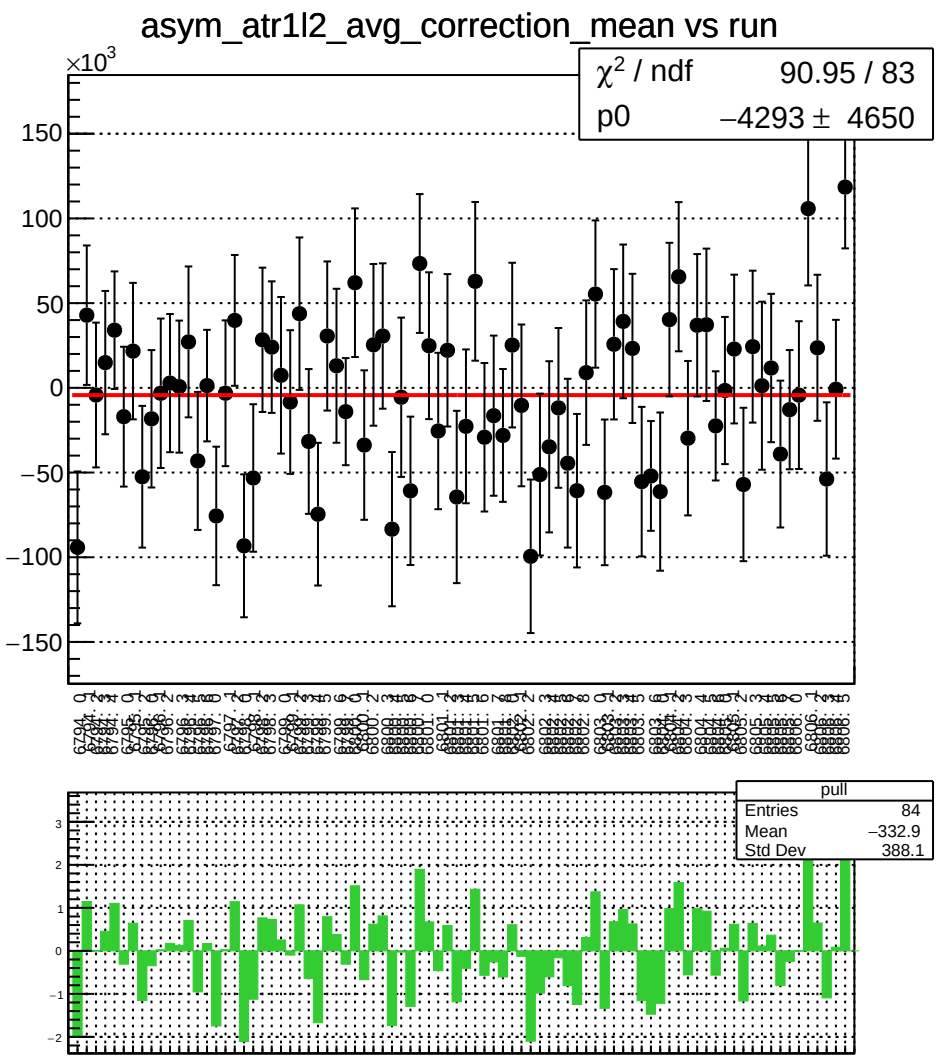

pull1D
Entries 84
Mean −0.01639
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

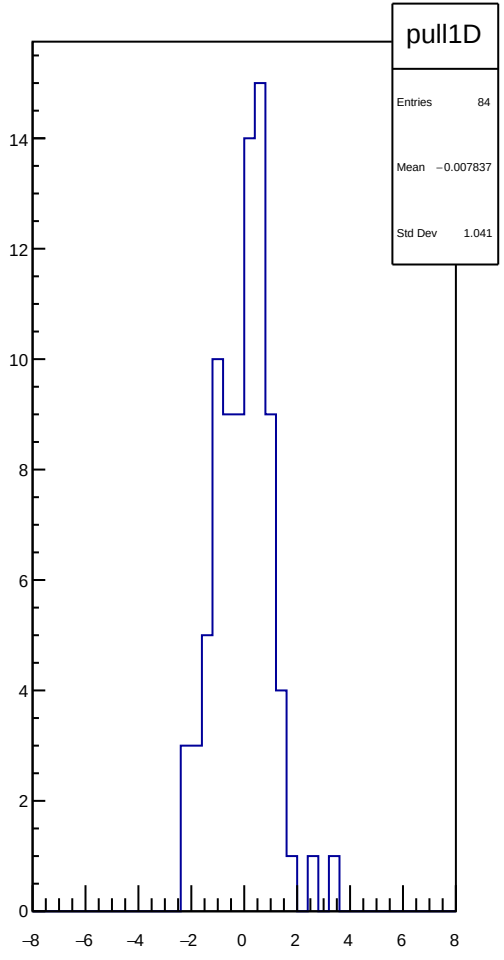

asym_atl1r2_dd_rms vs run
χ^2 / ndf 8711 / 83
p0 3720 ± 2.927
6500
6000
5500
5000
4500
4000
3500

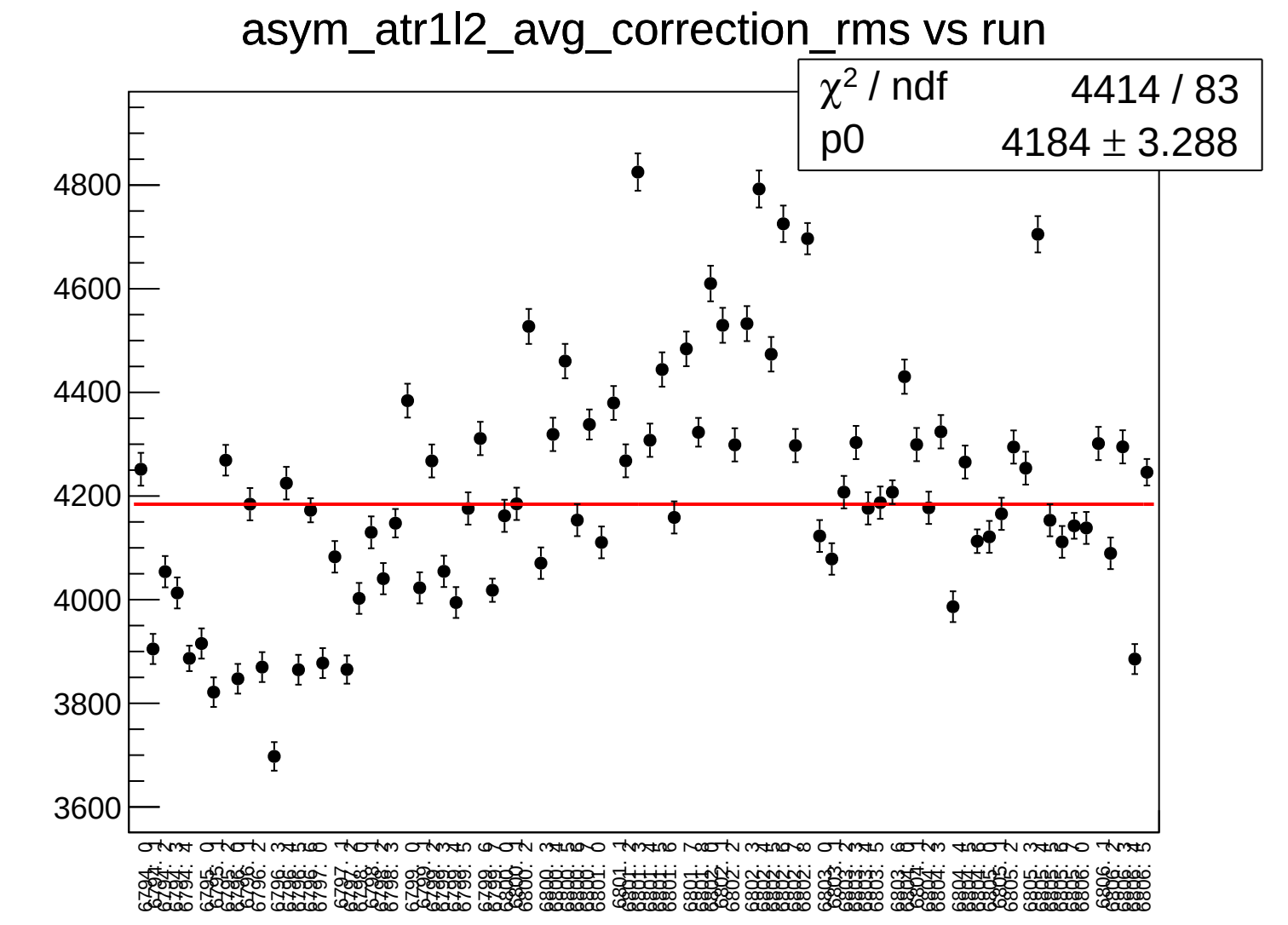

reg_asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 80.34 / 83
p0 1306 ± 2125
pull
Entries 84
Mean 43.82
Std Dev 88.89

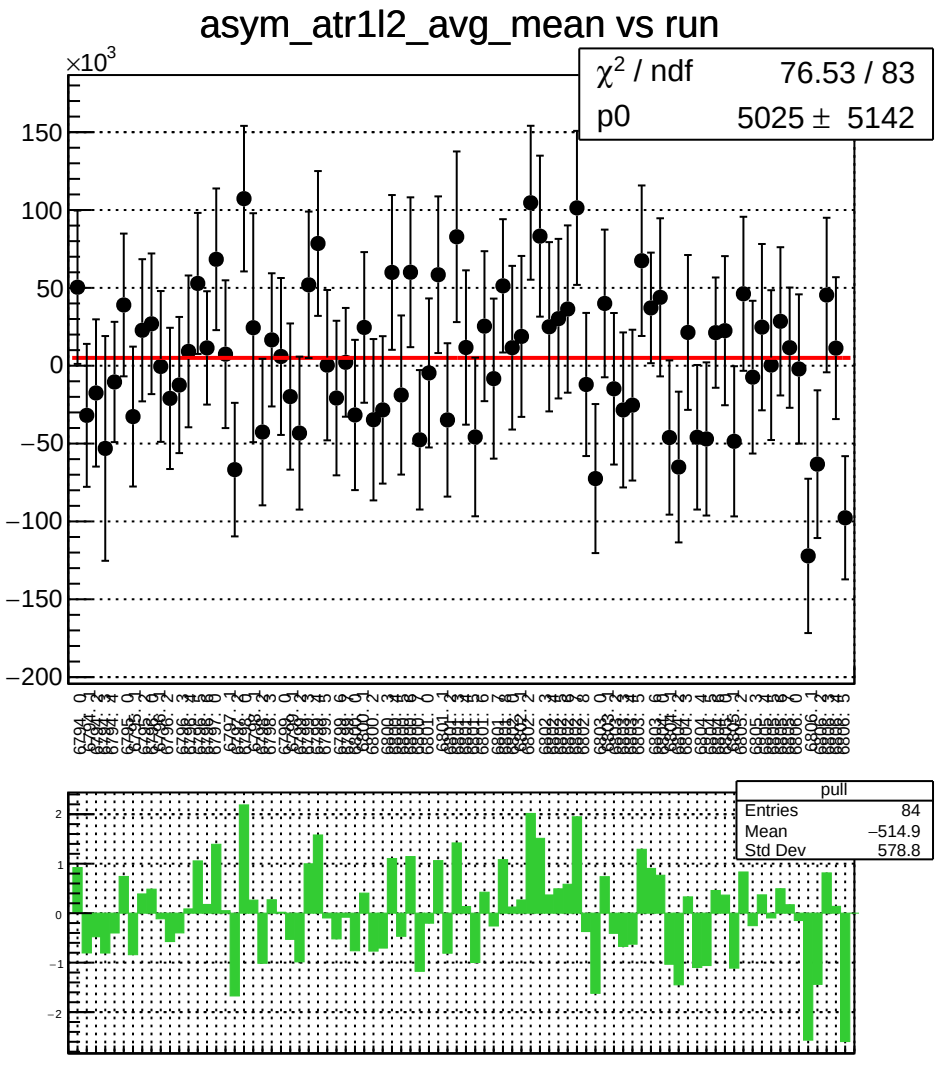

pull1D
Entries 84
Mean −0.01271
Std Dev 0.9779

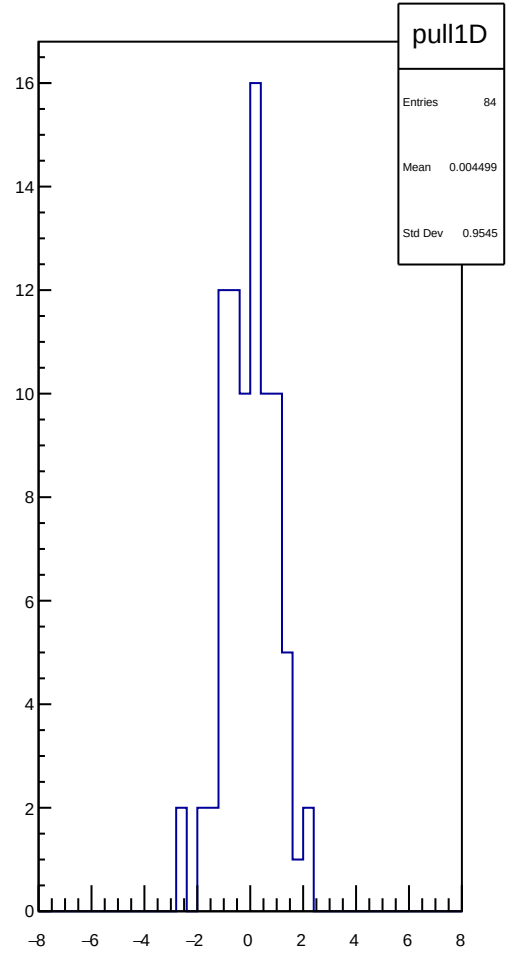

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 1.584e+04 / 83
p0 1905 ± 1.502
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

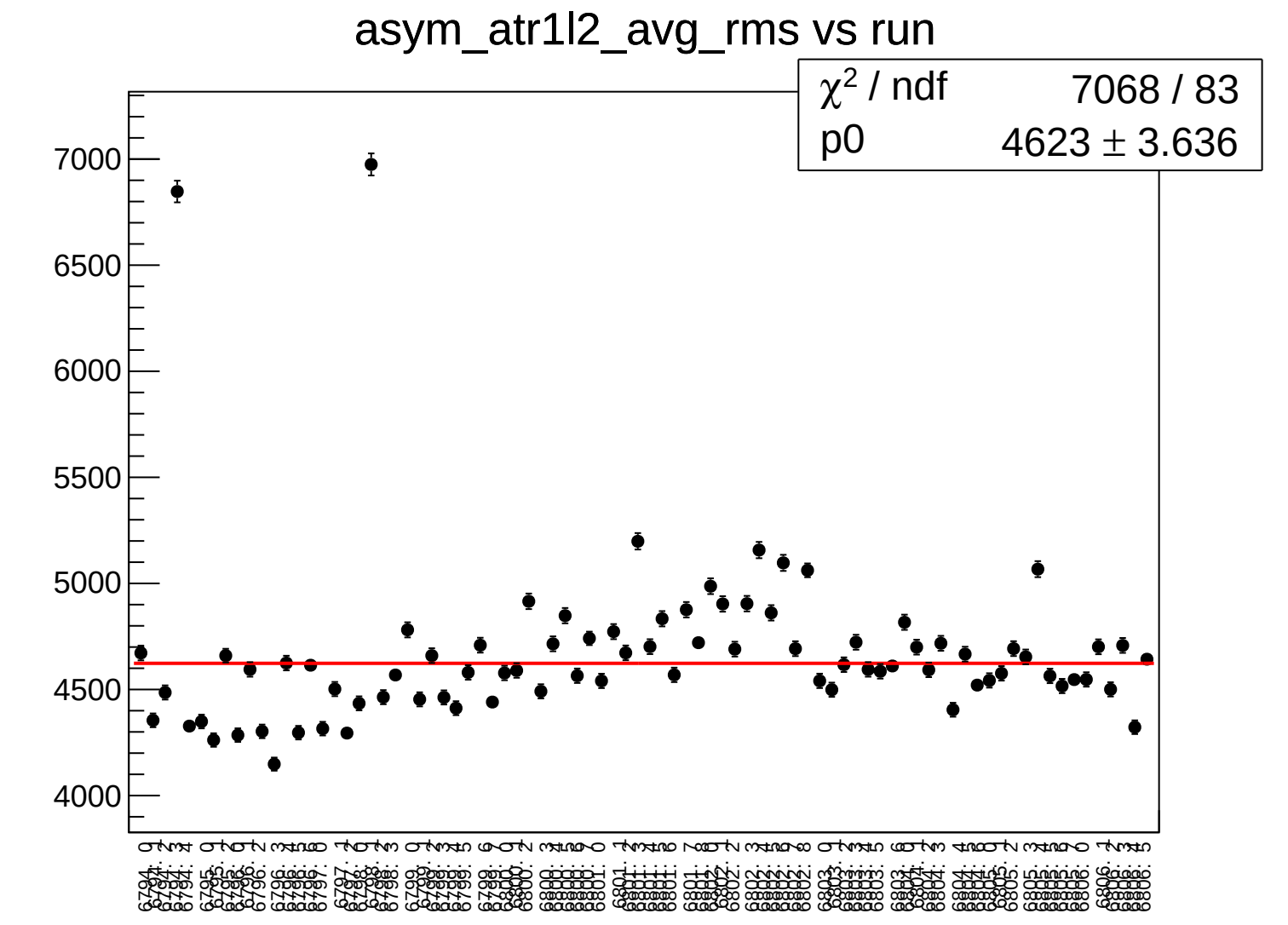

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 90.95 / 83
p0 −4293 ± 4650
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −332.9
Std Dev 388.1
3
2
1
0
−1
−2

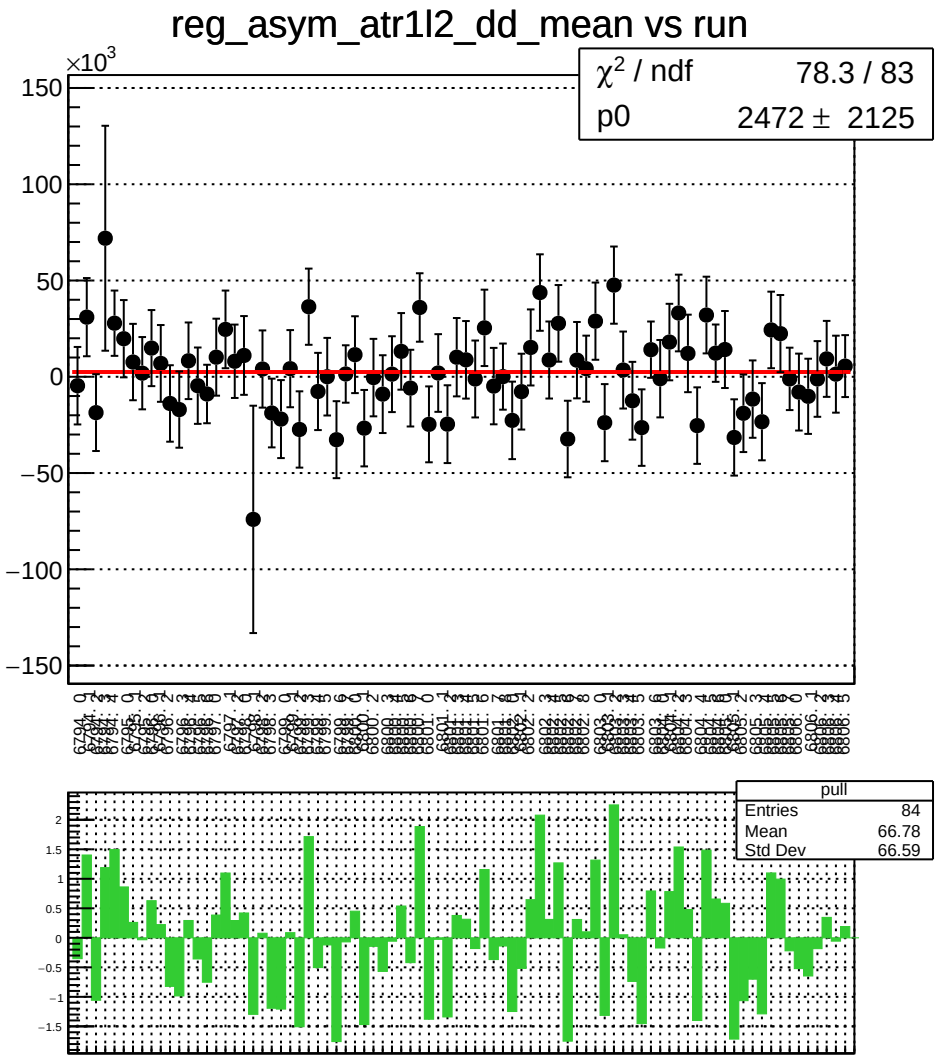

pull1D
Entries 84
Mean −0.007837
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

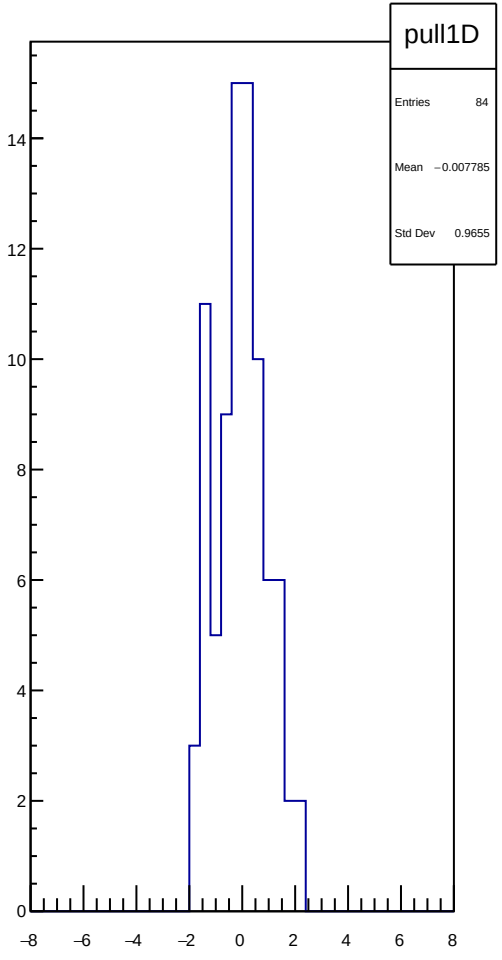

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 4414 / 83
p0 4184 ± 3.288
4800
4600
4400
4200
4000
3800
3600

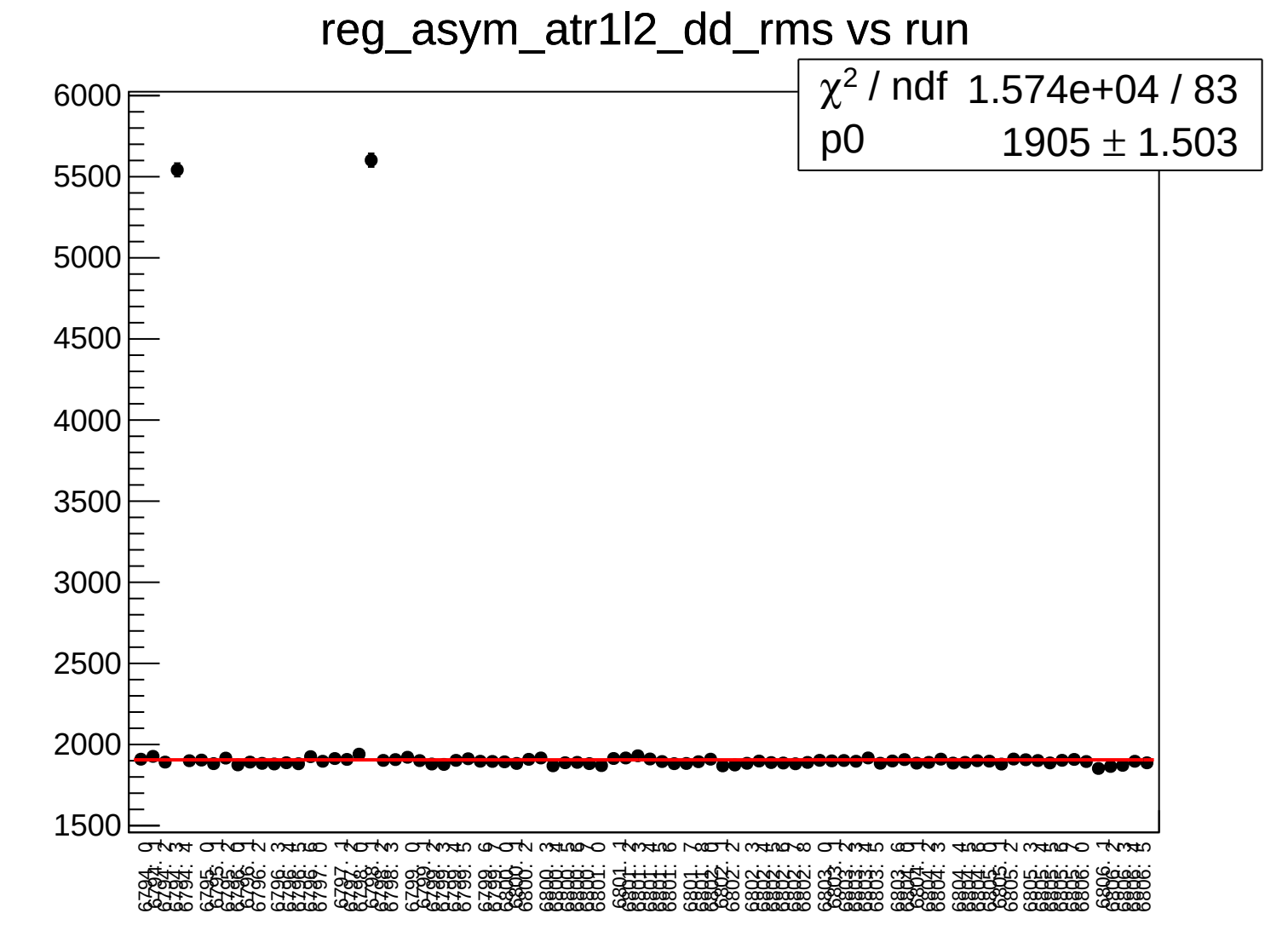

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 76.53 / 83
p0 5025 ± 5142
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −514.9
Std Dev 578.8
2
1
0
−1
−2

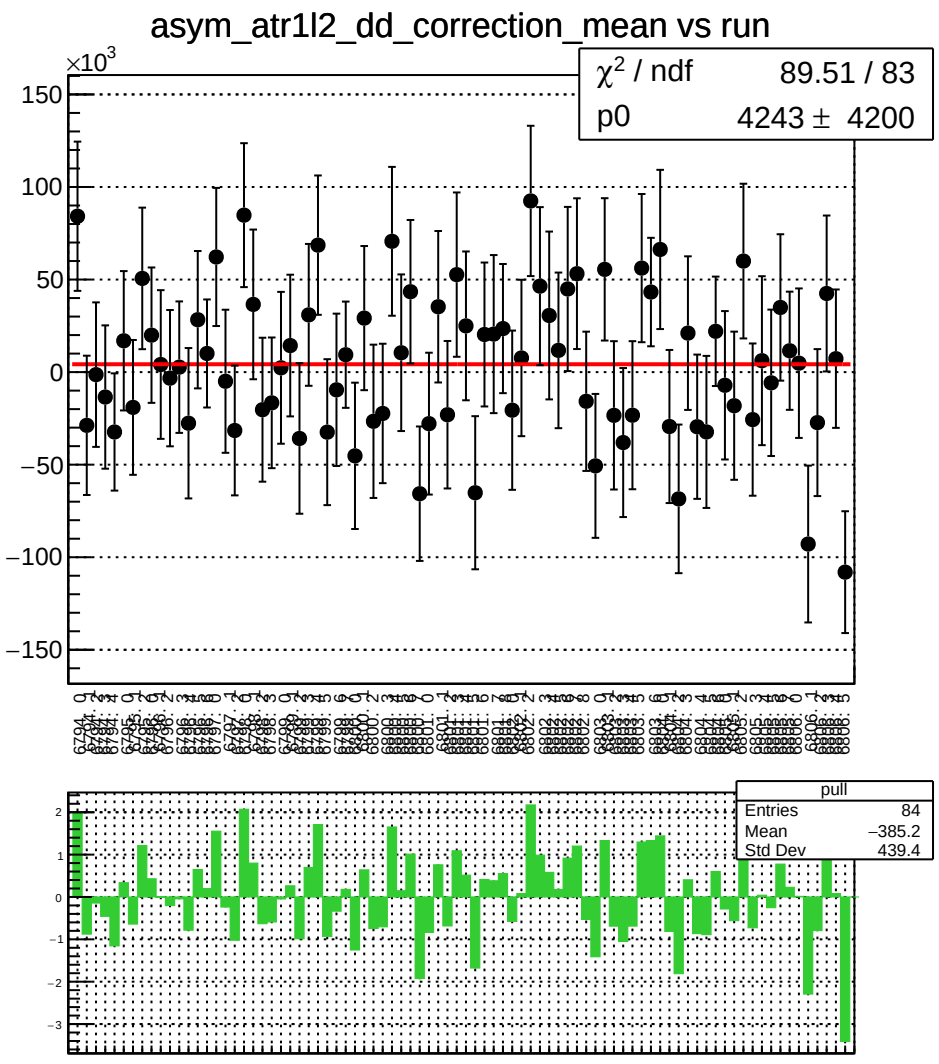

pull1D
Entries 84
Mean 0.004499
Std Dev 0.9545
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

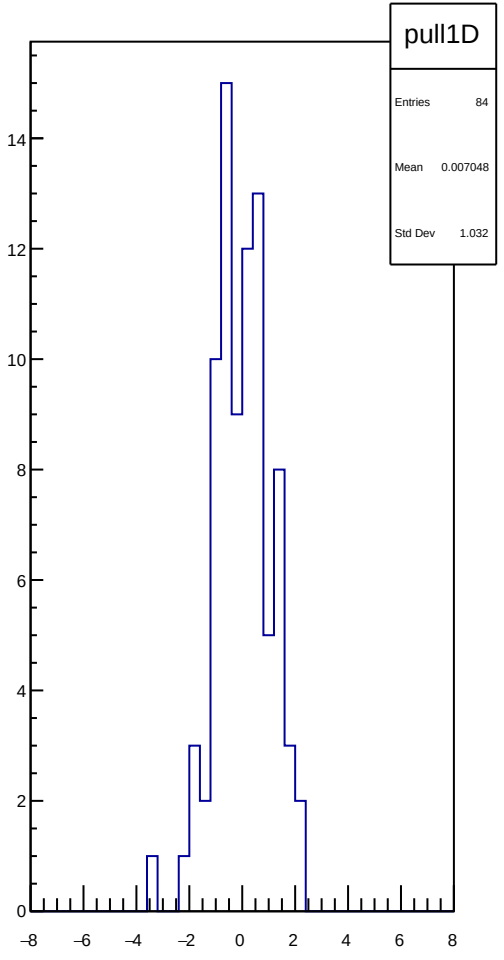

asym_atr1l2_avg_rms vs run
χ² / ndf 7068 / 83
p0 4623 ± 3.636
7000
6500
6000
5500
5000
4500
4000

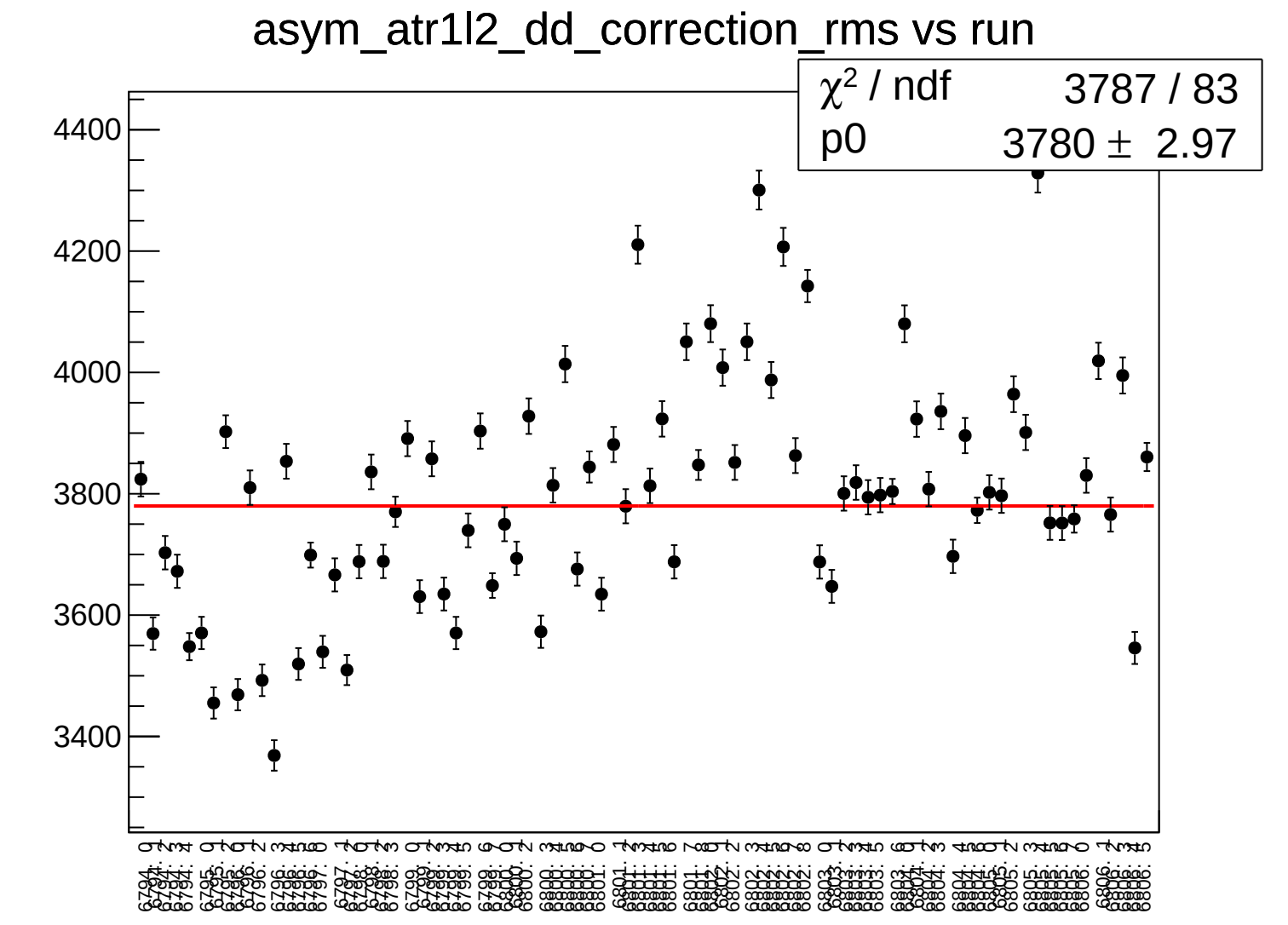

reg_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 78.3 / 83
p0 2472 ± 2125
pull
Entries 84
Mean 66.78
Std Dev 66.59

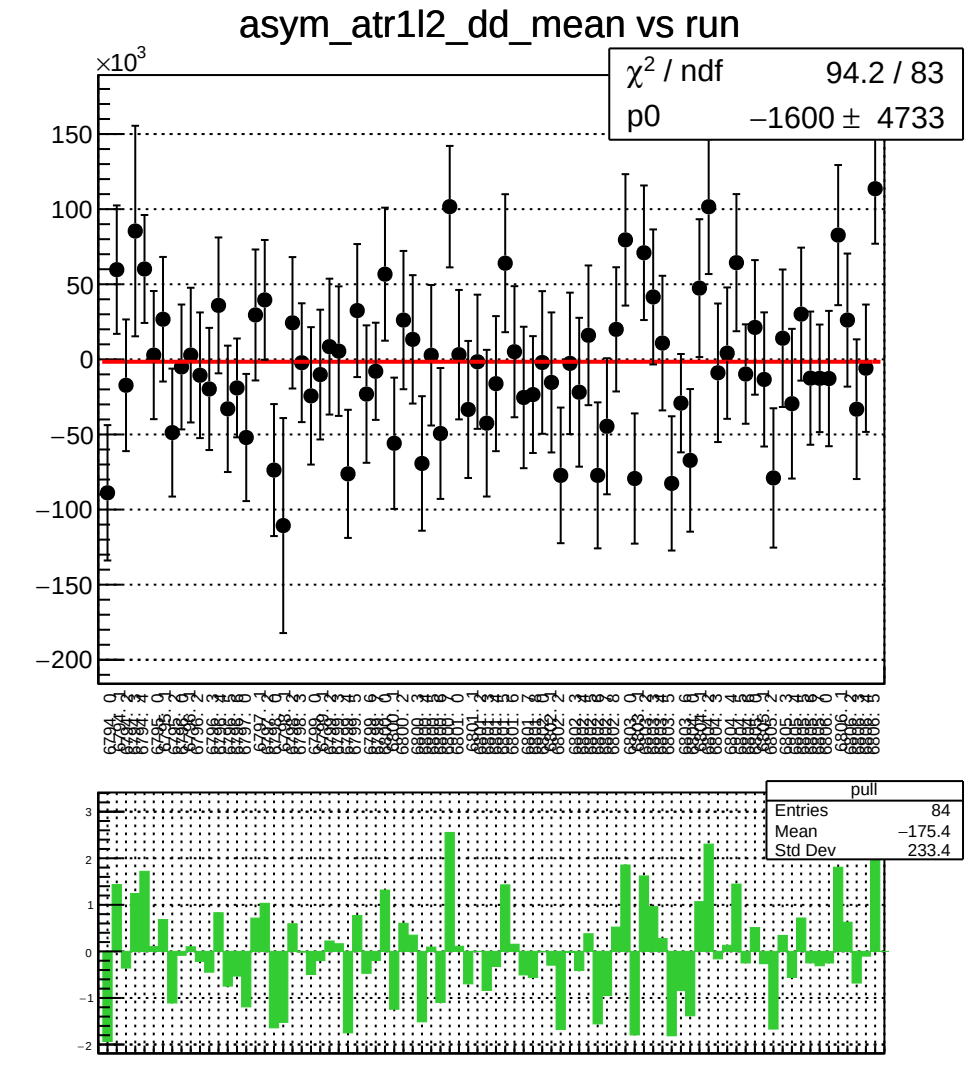

pull1D
Entries 84
Mean −0.007785
Std Dev 0.9655

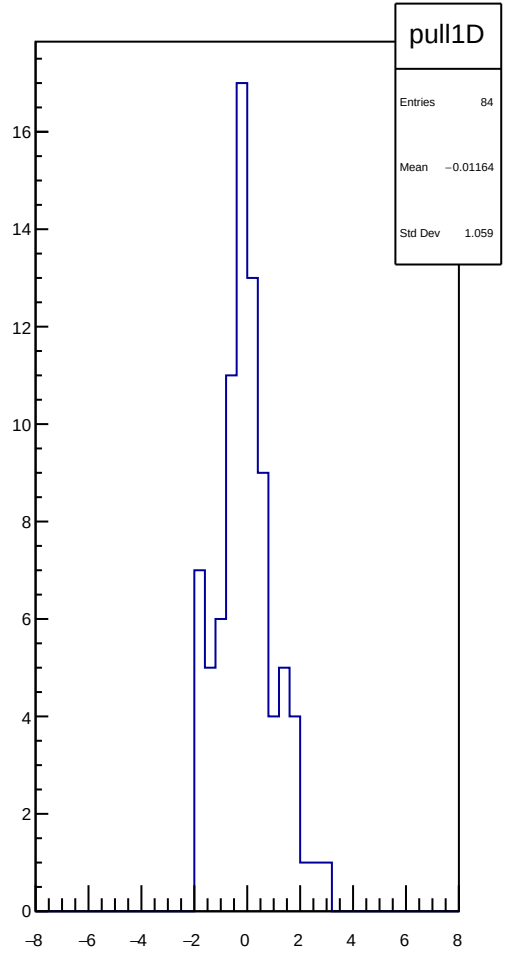

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 1.574e+04 / 83
p0 1905 ± 1.503
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

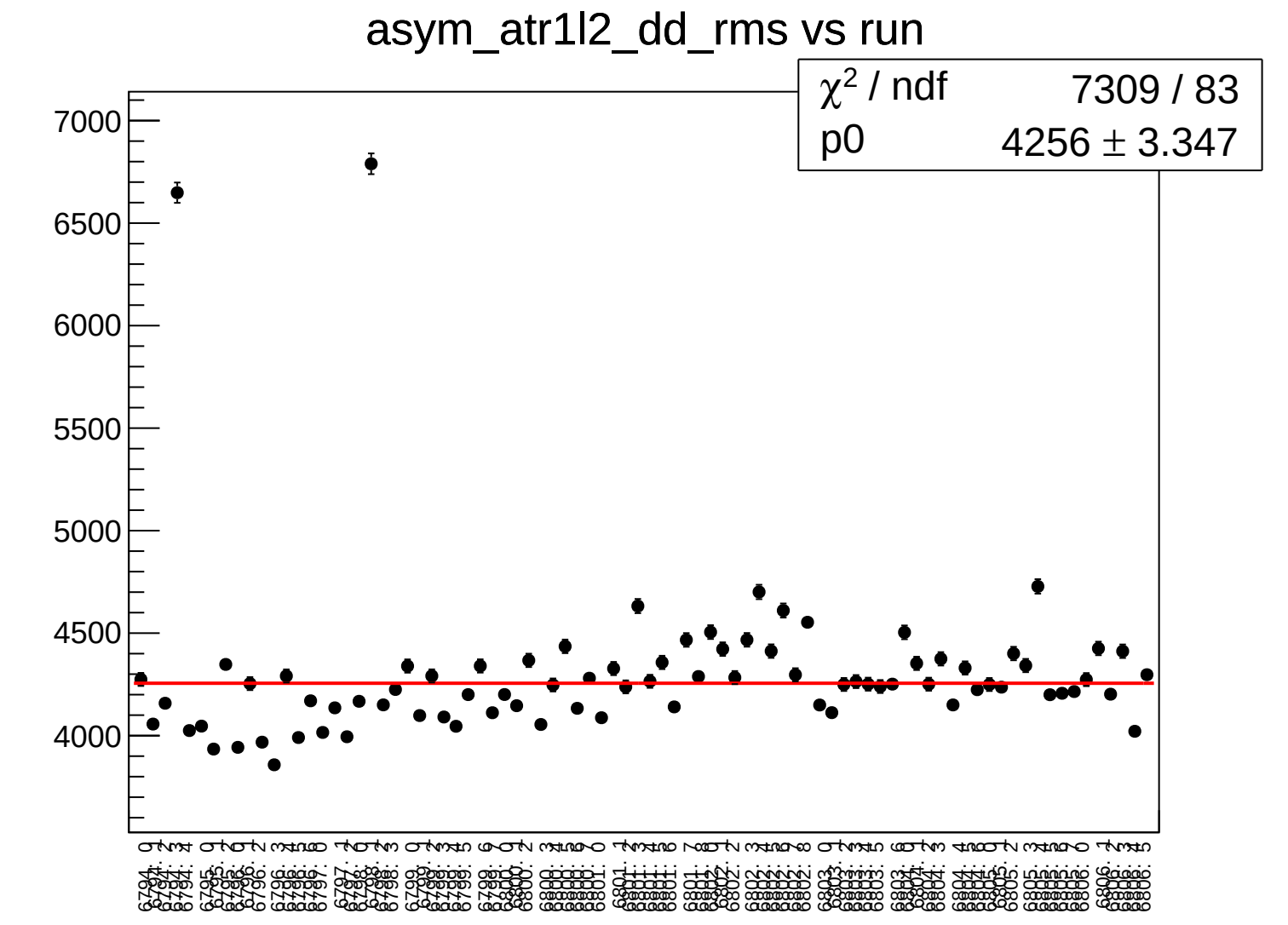

asym_atr1l2_dd_correction_mean vs run
×10^3
χ^2 / ndf 89.51 / 83
p0 4243 ± 4200
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −385.2
Std Dev 439.4
2
1
0
−1
−2
−3

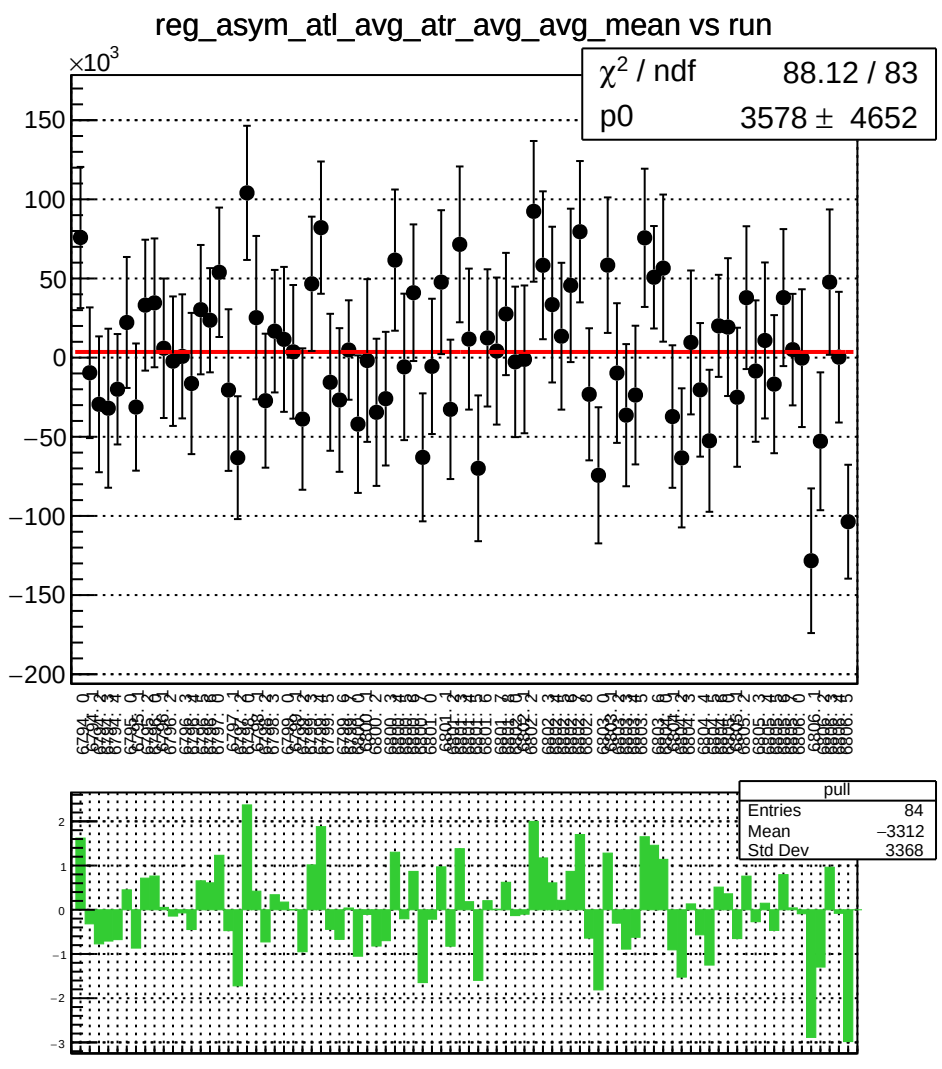

pull1D
Entries 84
Mean 0.007048
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

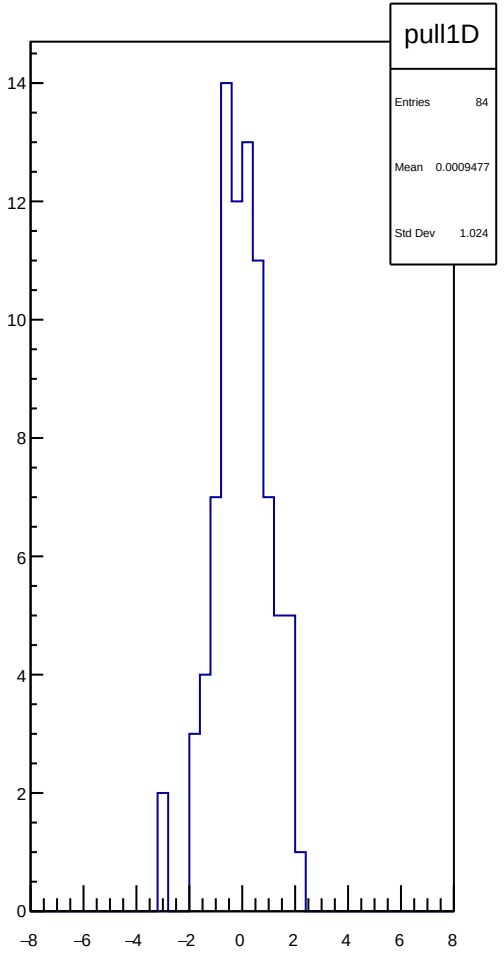

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 3787 / 83
p0 3780 ± 2.97
4400
4200
4000
3800
3600
3400

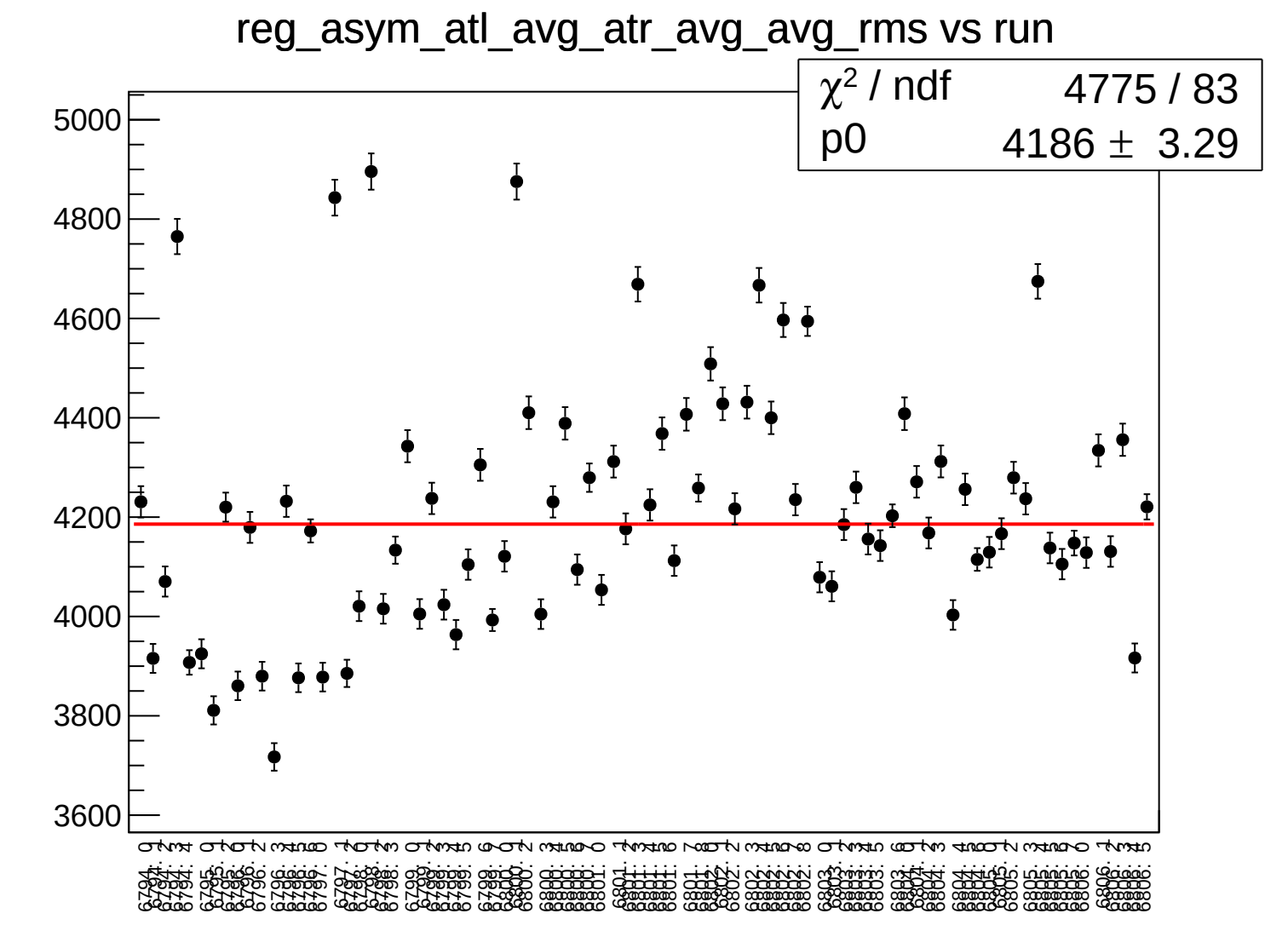

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 94.2 / 83
p0 −1600 ± 4733
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −175.4
Std Dev 233.4
3
2
1
0
−1
−2

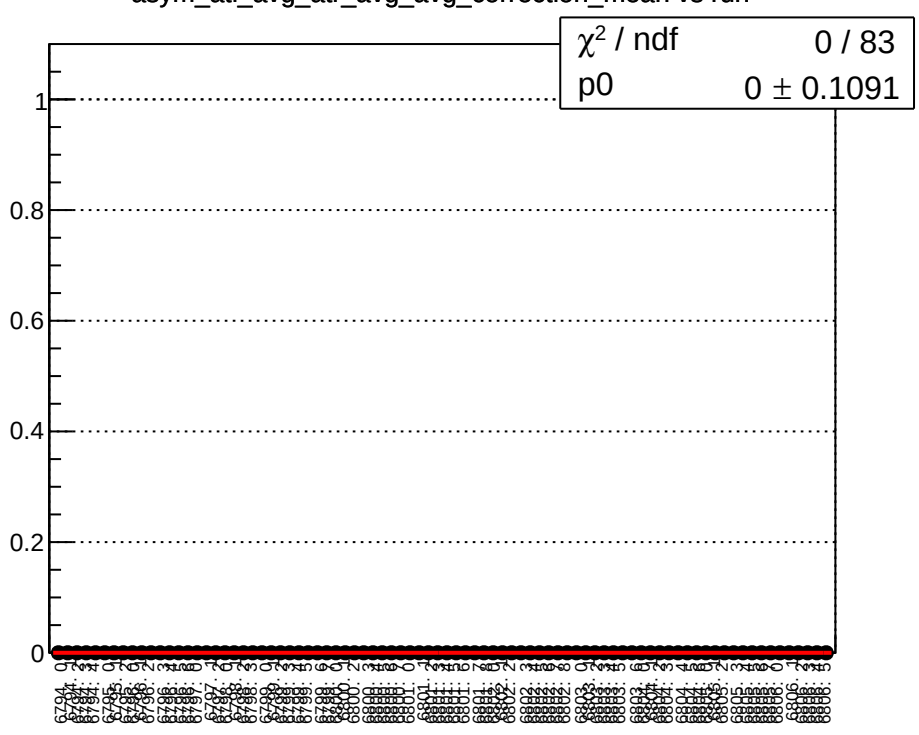

pull1D
Entries 84
Mean −0.01164
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

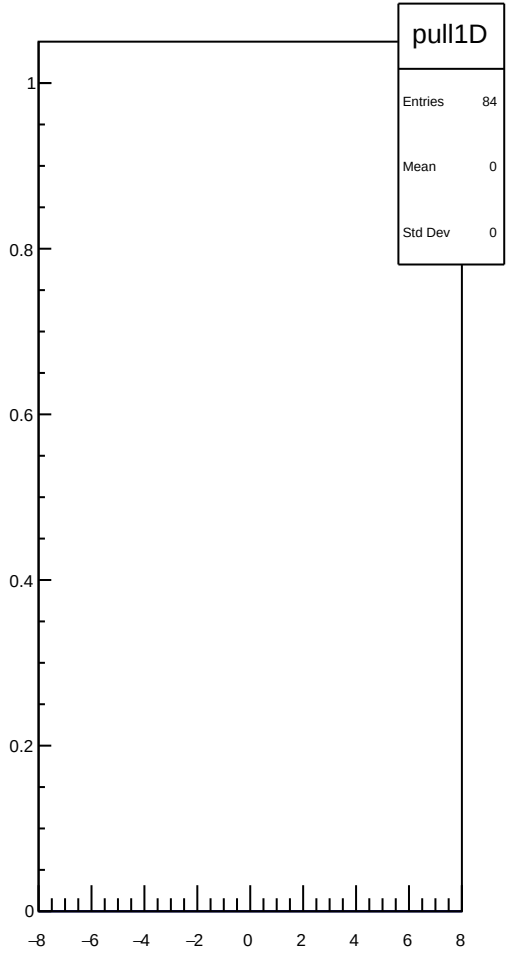

asym_atr1l2_dd_rms vs run
χ^2 / ndf 7309 / 83
p0 4256 ± 3.347
7000
6500
6000
5500
5000
4500
4000

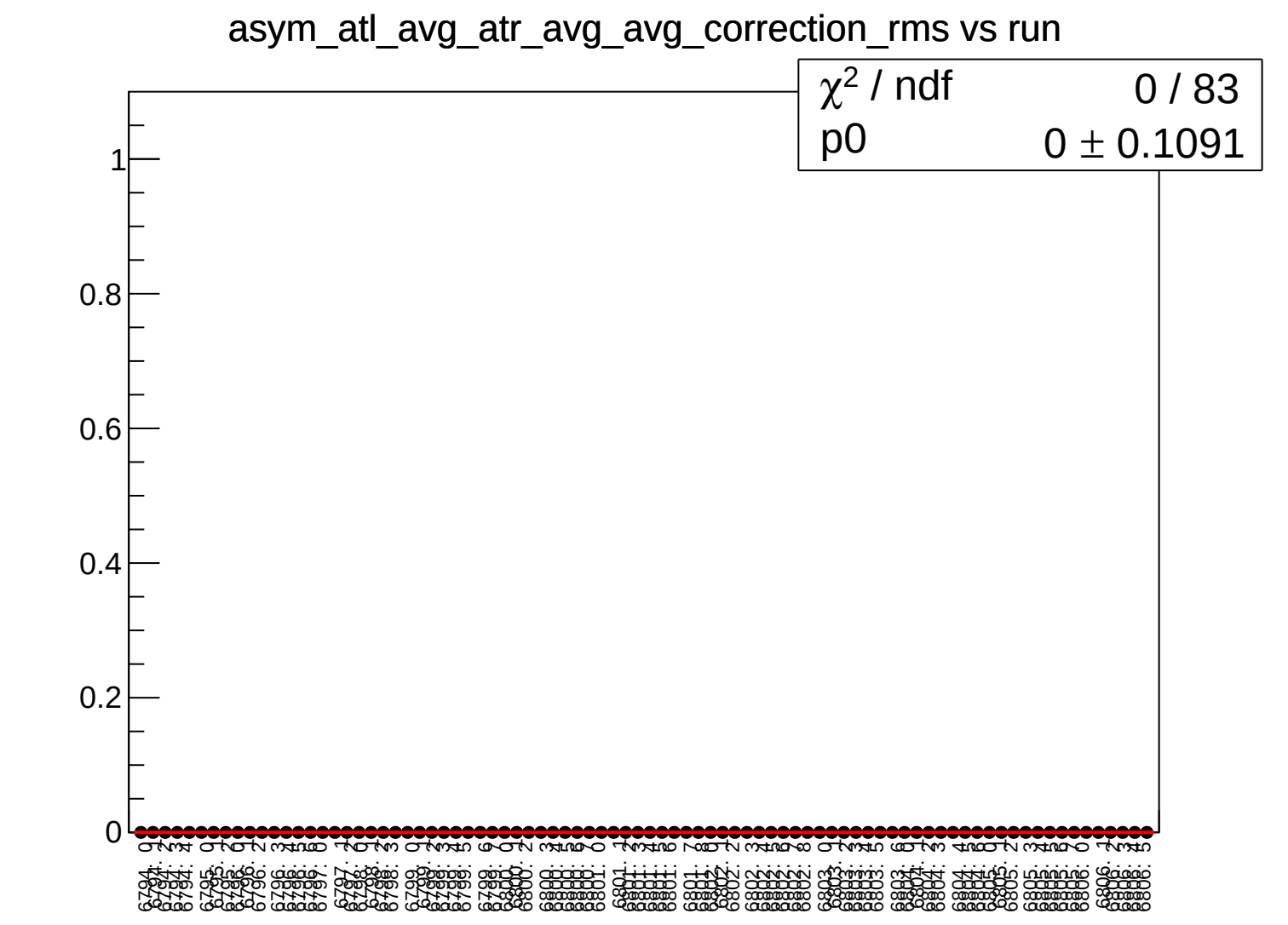

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 88.12 / 83
p0 3578 ± 4652
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −3312
Std Dev 3368
2
1
0
−1
−2
−3

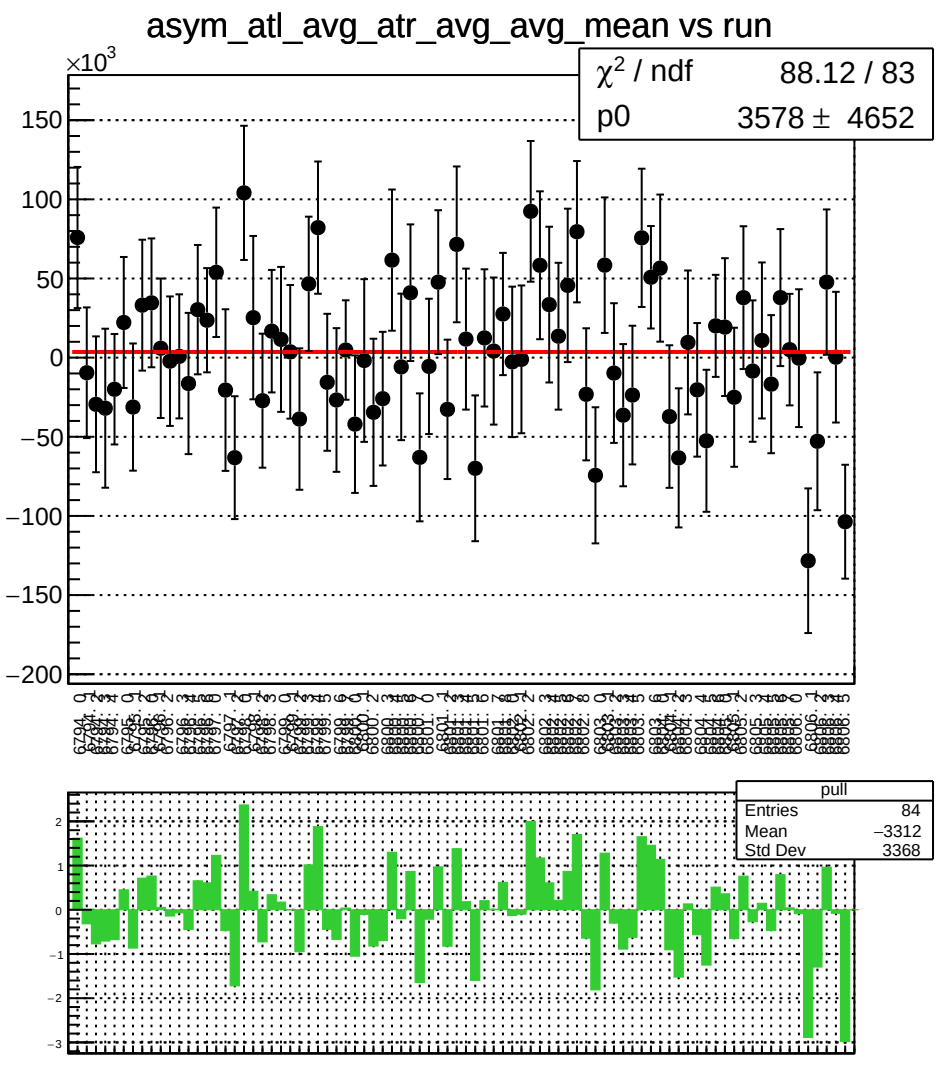

pull1D
Entries 84
Mean 0.0009477
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

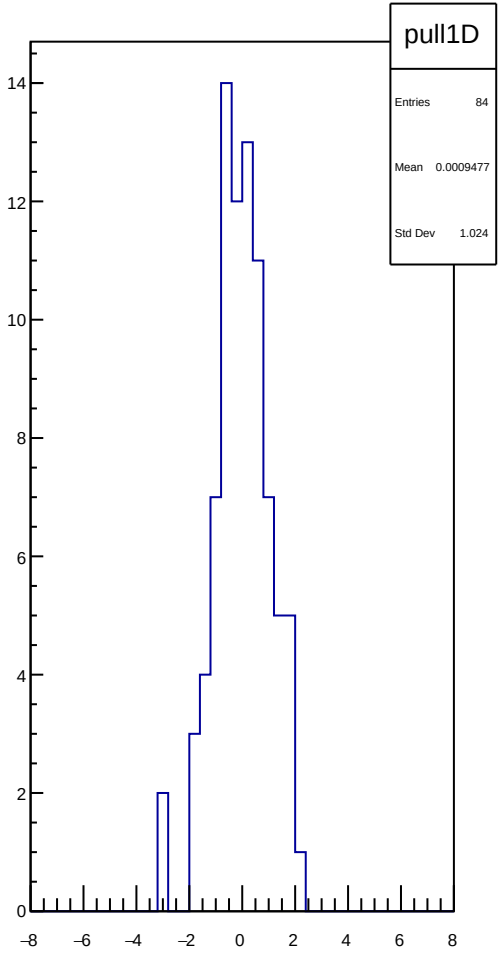

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4775 / 83
p0 4186 ± 3.29
5000
4800
4600
4400
4200
4000
3800
3600

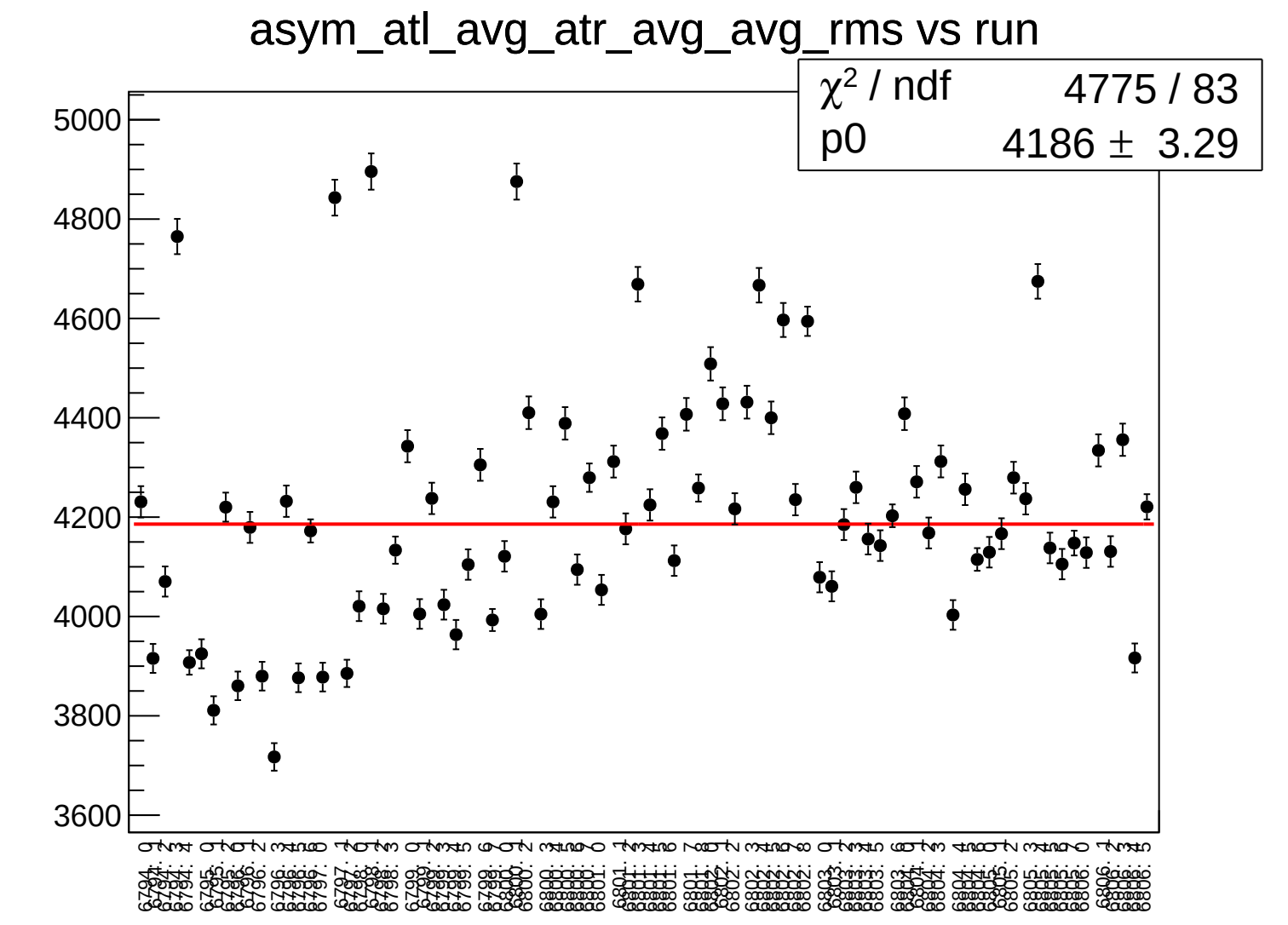

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 83
p0 0 ± 0.1091
1
0.8
0.6
0.4
0.2
0

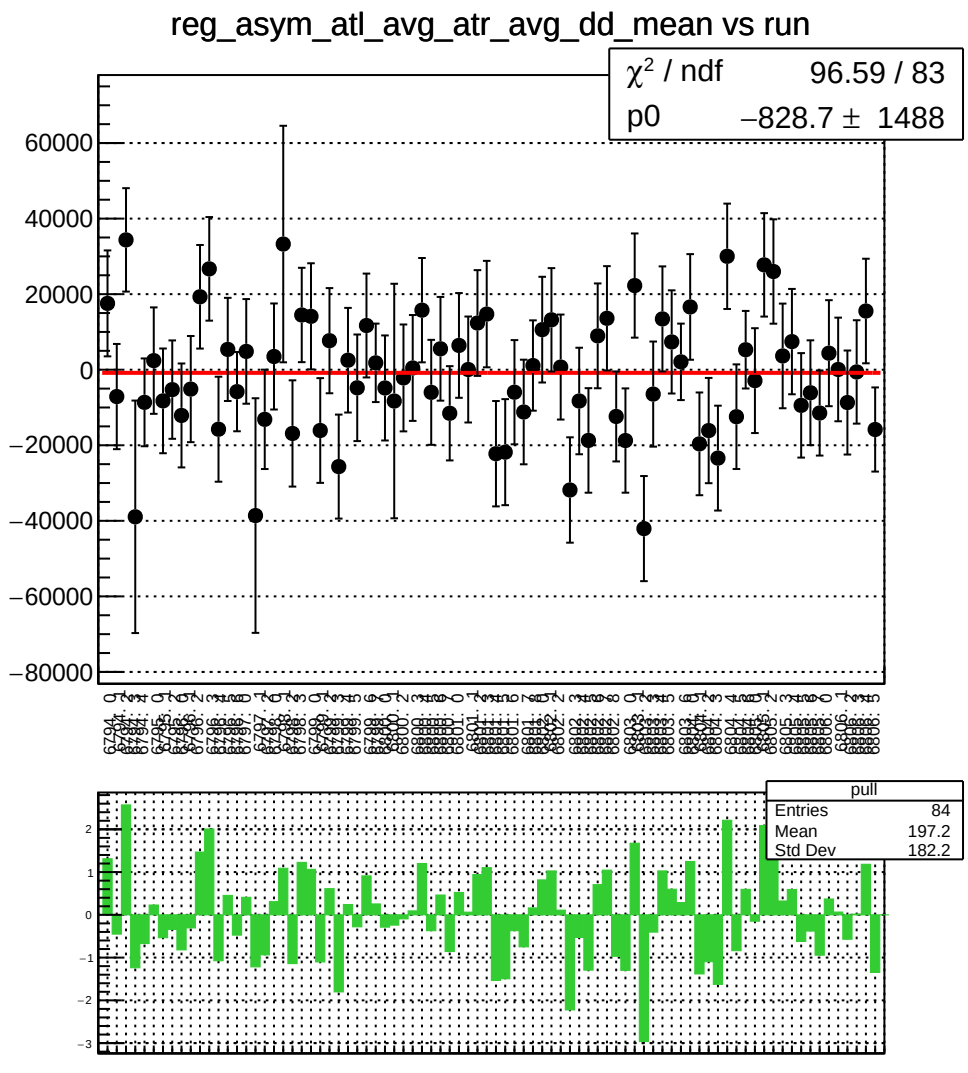

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

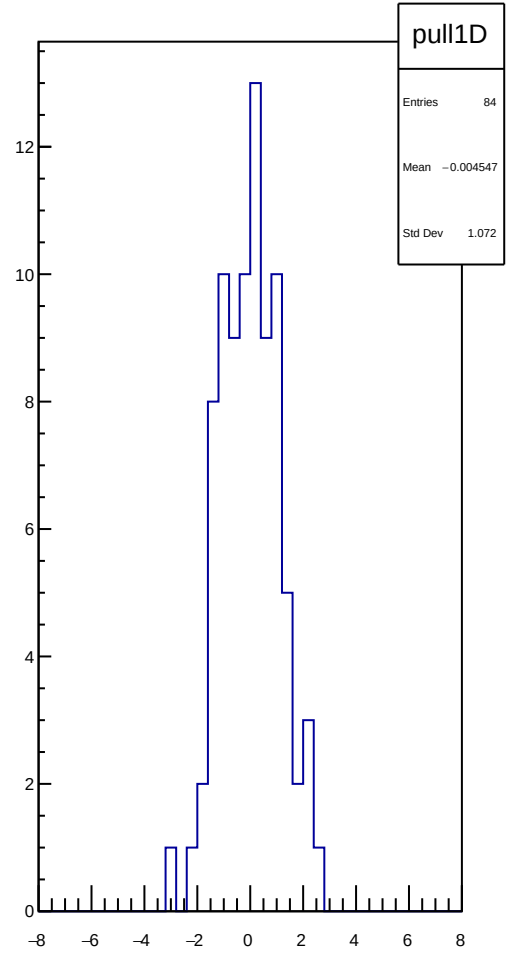

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 83
p0 0 ± 0.1091
1
0.8
0.6
0.4
0.2
0

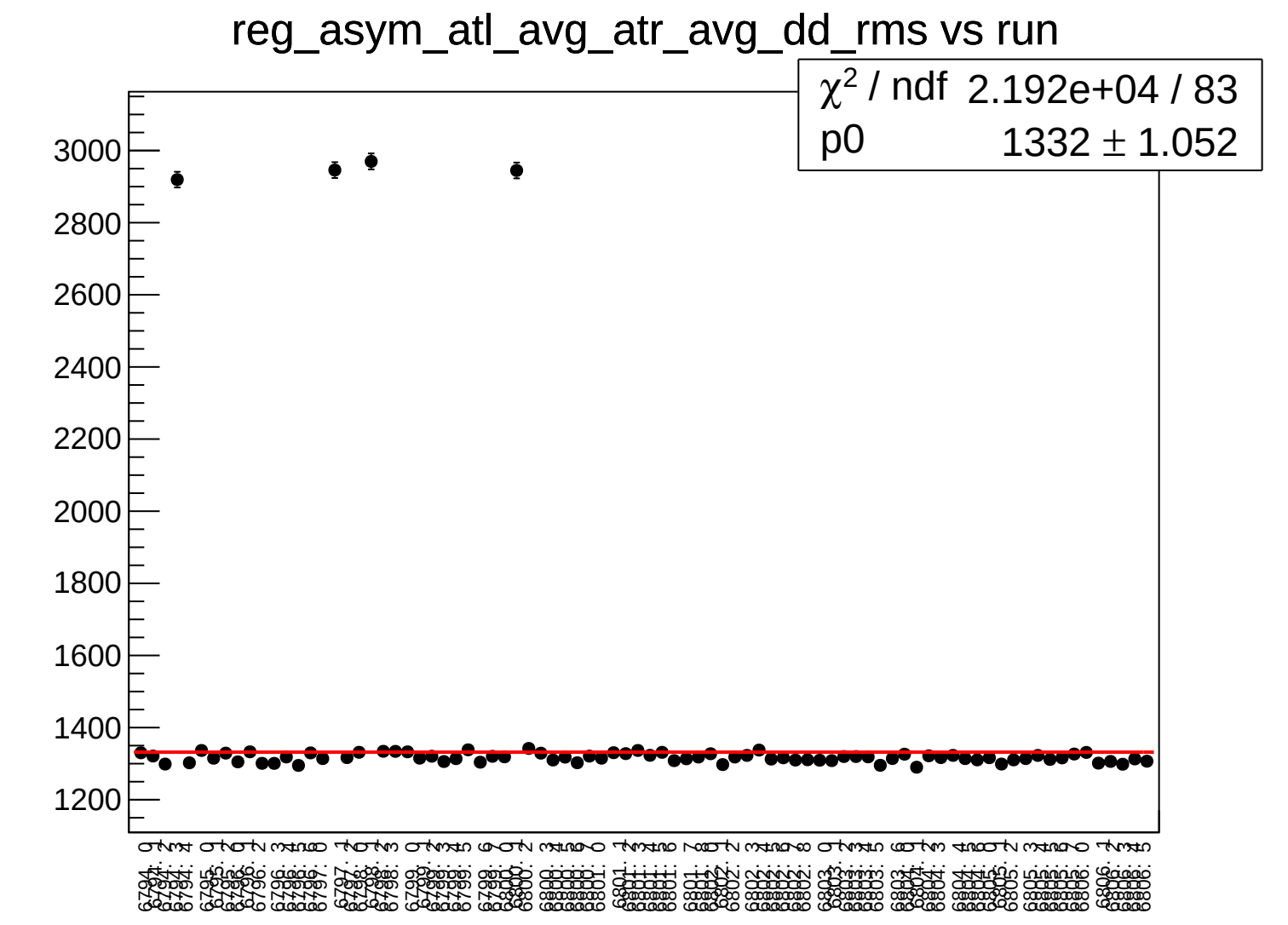

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 88.12 / 83
p0 3578 ± 4652
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −3312
Std Dev 3368
2
1
0
−1
−2
−3

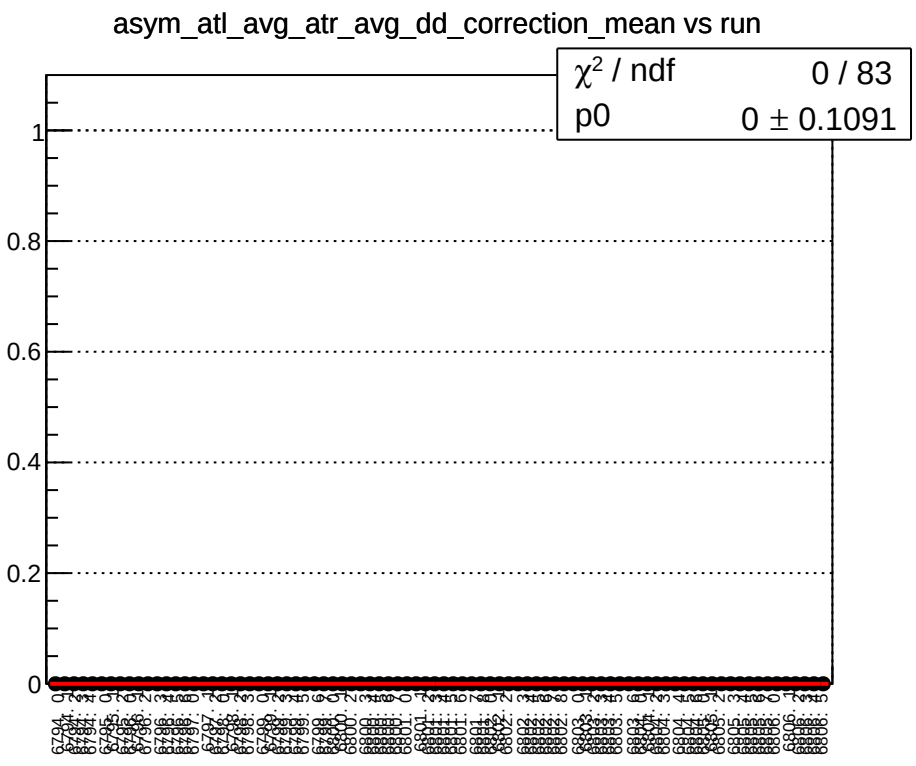

pull1D
Entries 84
Mean 0.0009477
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

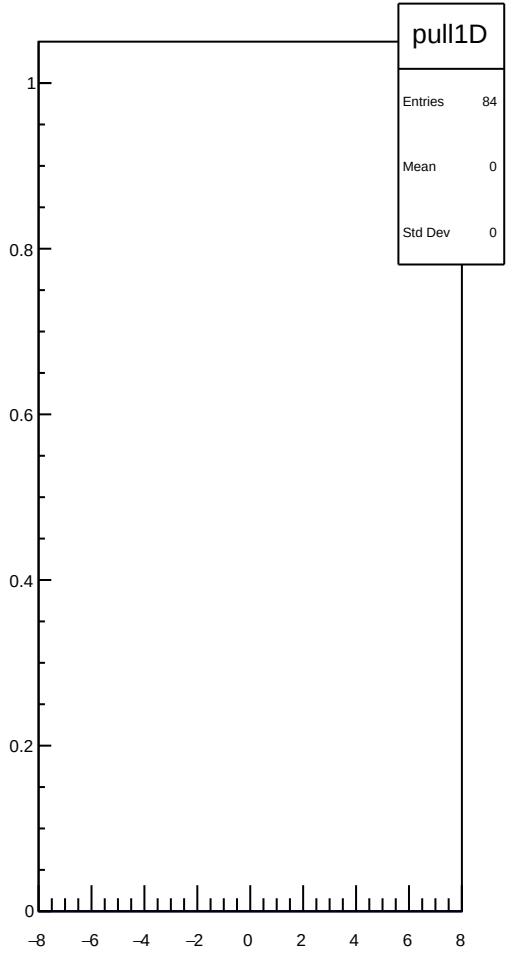

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4775 / 83
p0 4186 ± 3.29
5000
4800
4600
4400
4200
4000
3800
3600

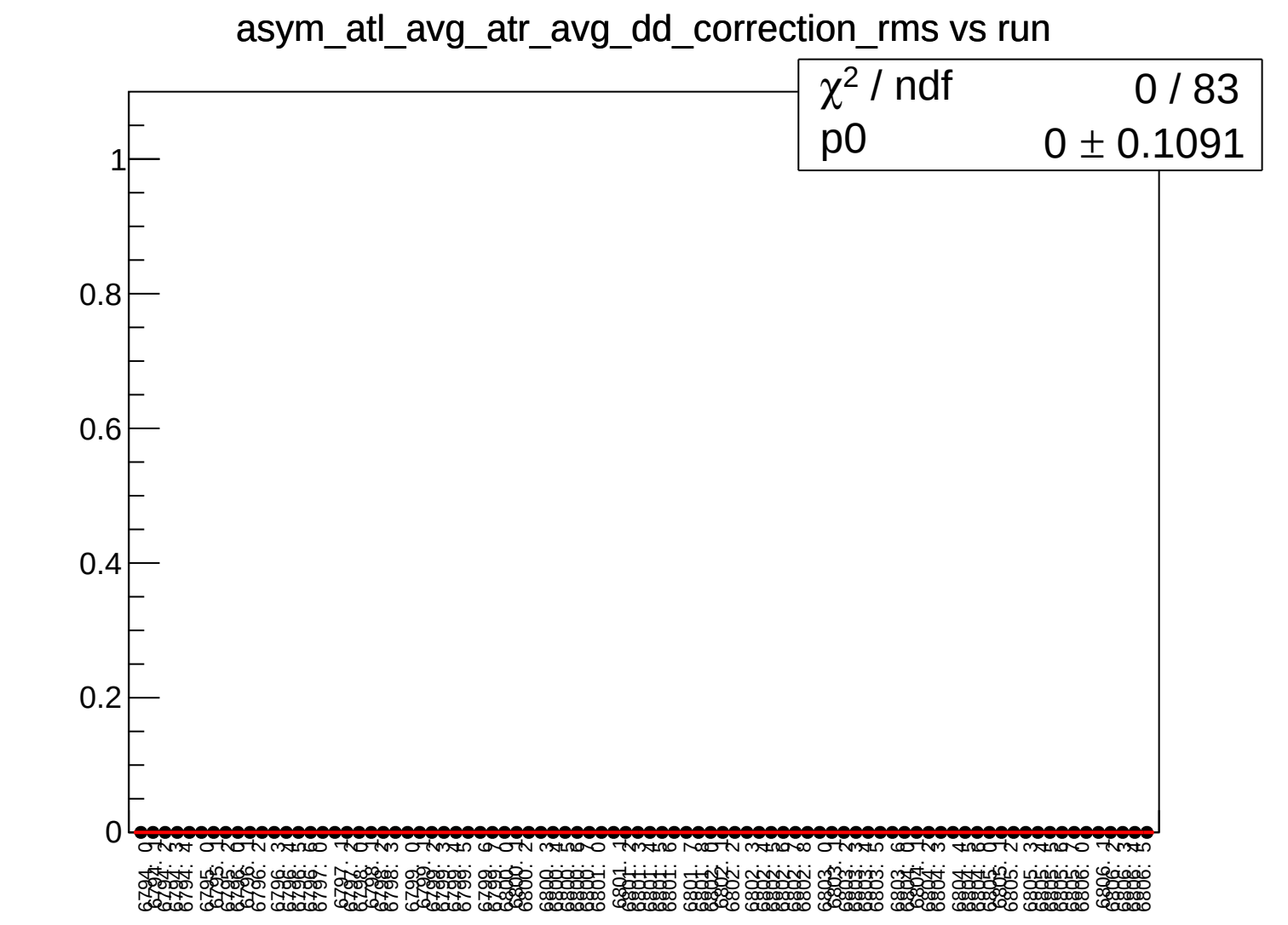

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 96.59 / 83
p0 −828.7 ± 1488
pull
Entries 84
Mean 197.2
Std Dev 182.2

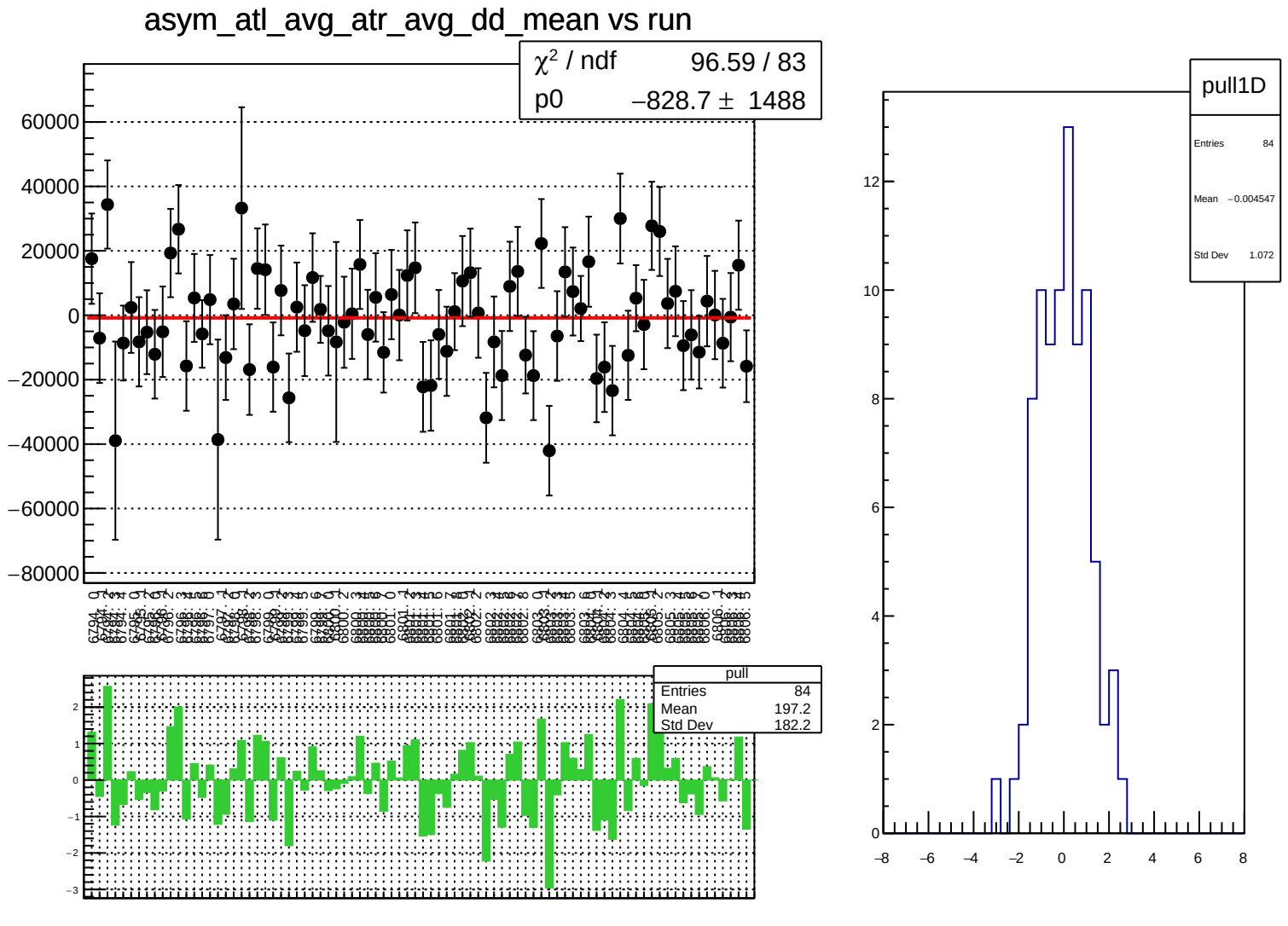

pull1D
Entries 84
Mean −0.004547
Std Dev 1.072

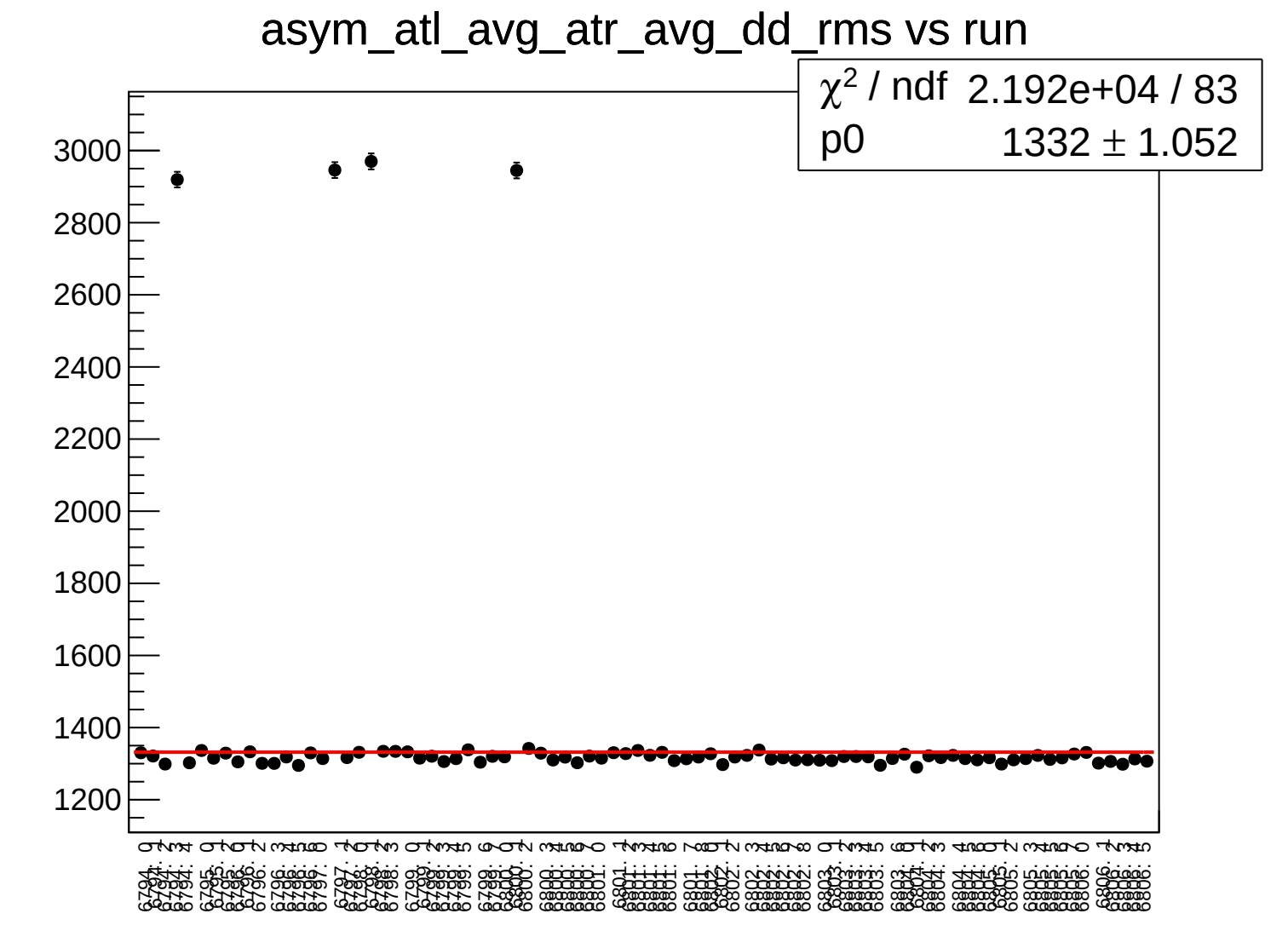

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2.192e+04 / 83
p0 1332 ± 1.052
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

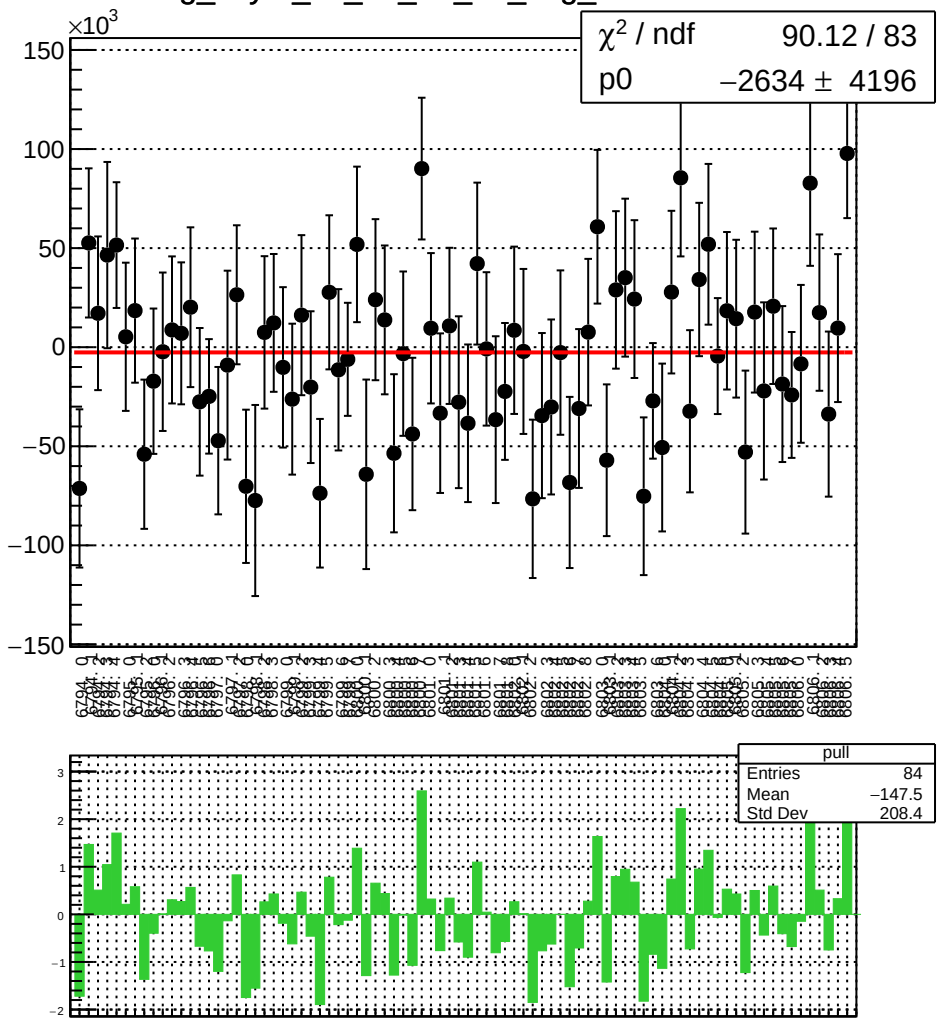

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 83
p0 0 ± 0.1091
1
0.8
0.6
0.4
0.2
0

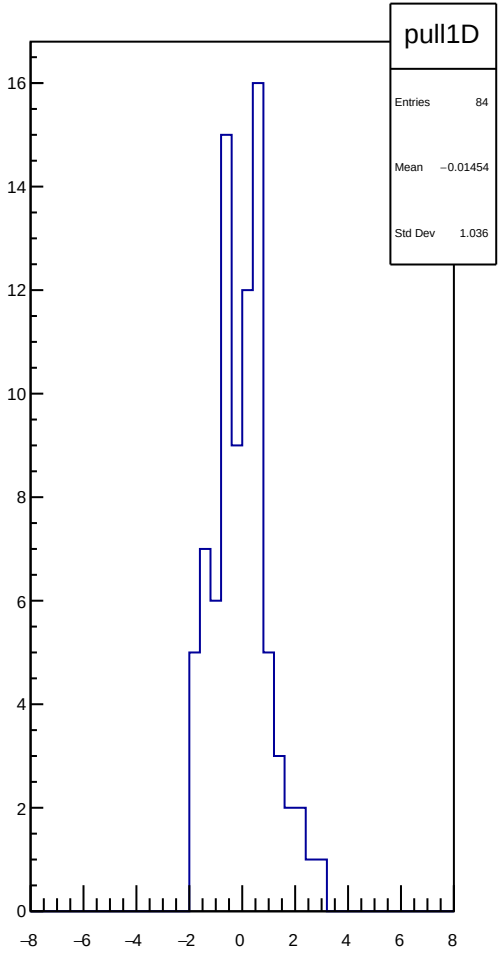

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

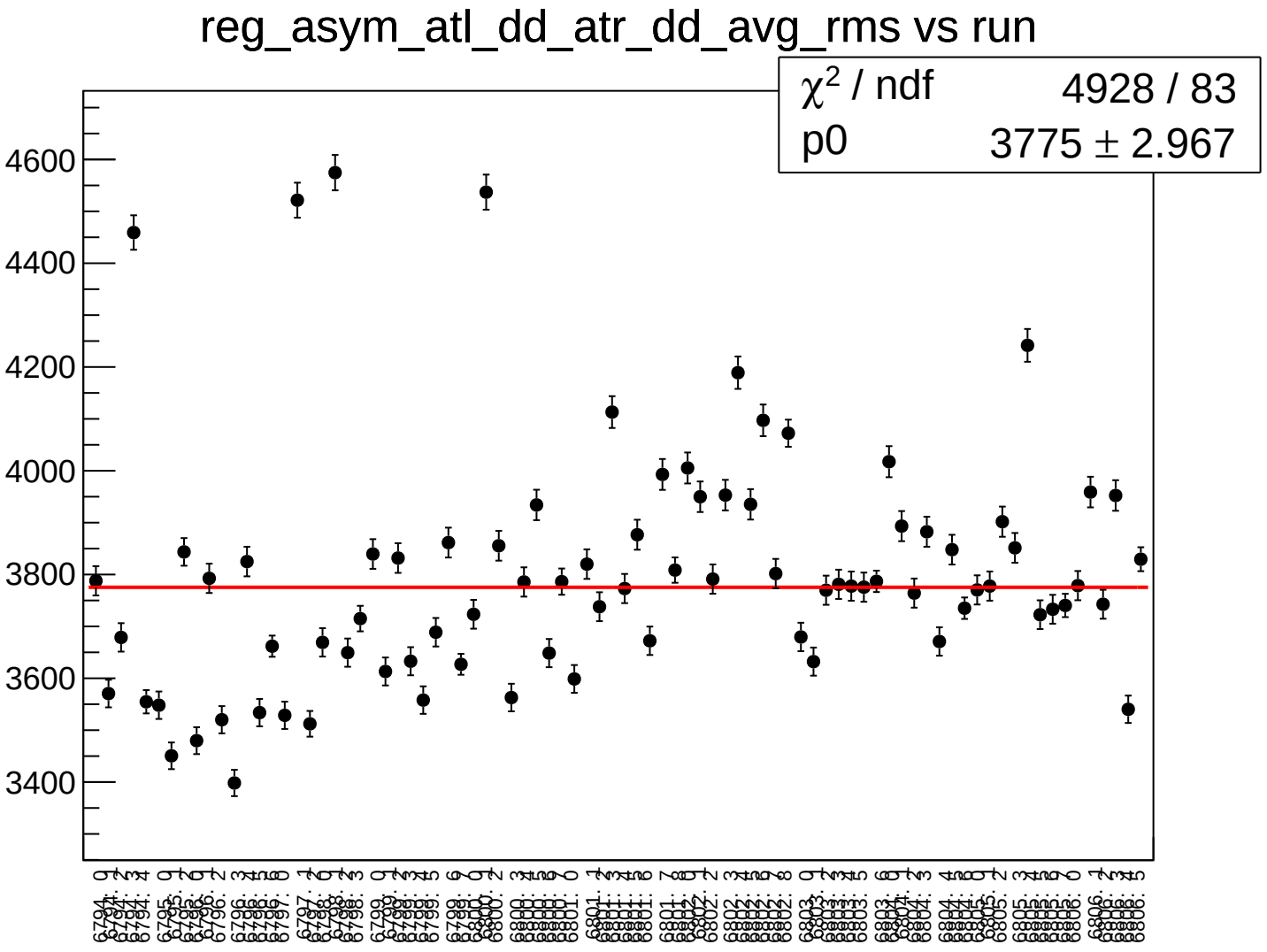

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 83
p0 0 ± 0.1091
1
0.8
0.6
0.4
0.2
0

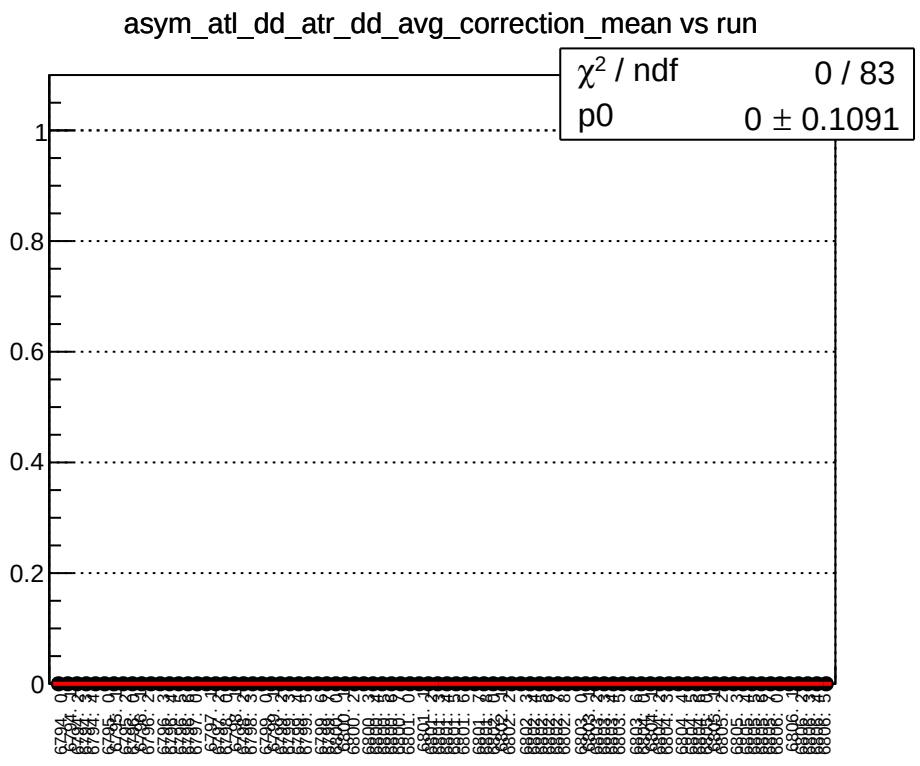

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 96.59 / 83
p0 −828.7 ± 1488
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 197.2
Std Dev 182.2
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.004547
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

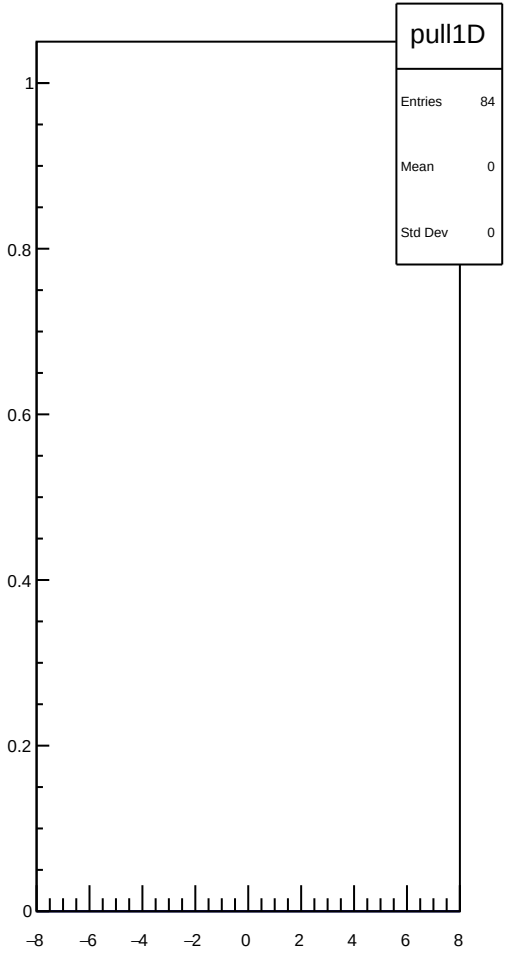

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2.192e+04 / 83
p0 1332 ± 1.052
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

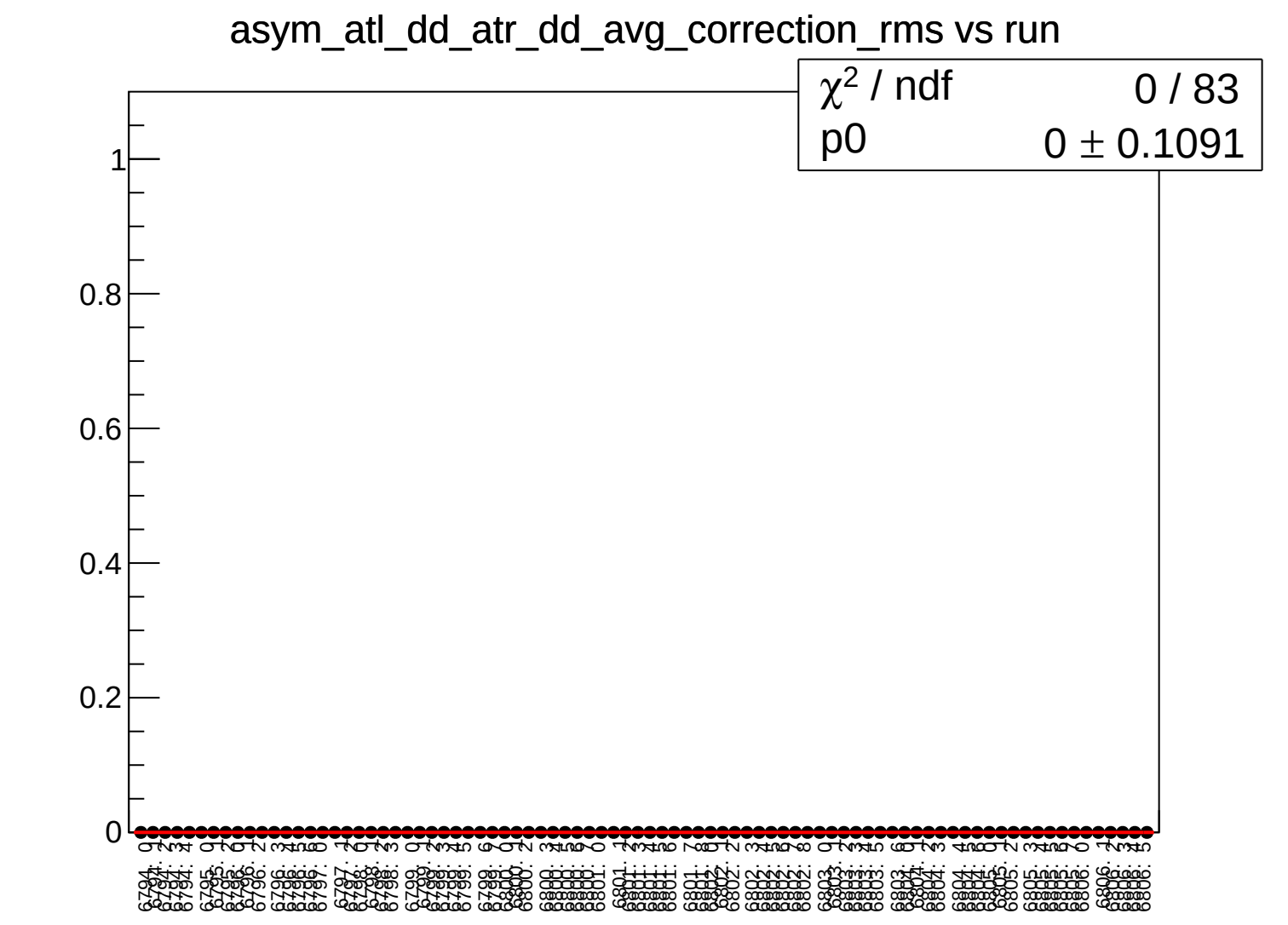

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 90.12 / 83
p0 −2634 ± 4196
pull
Entries 84
Mean −147.5
Std Dev 208.4

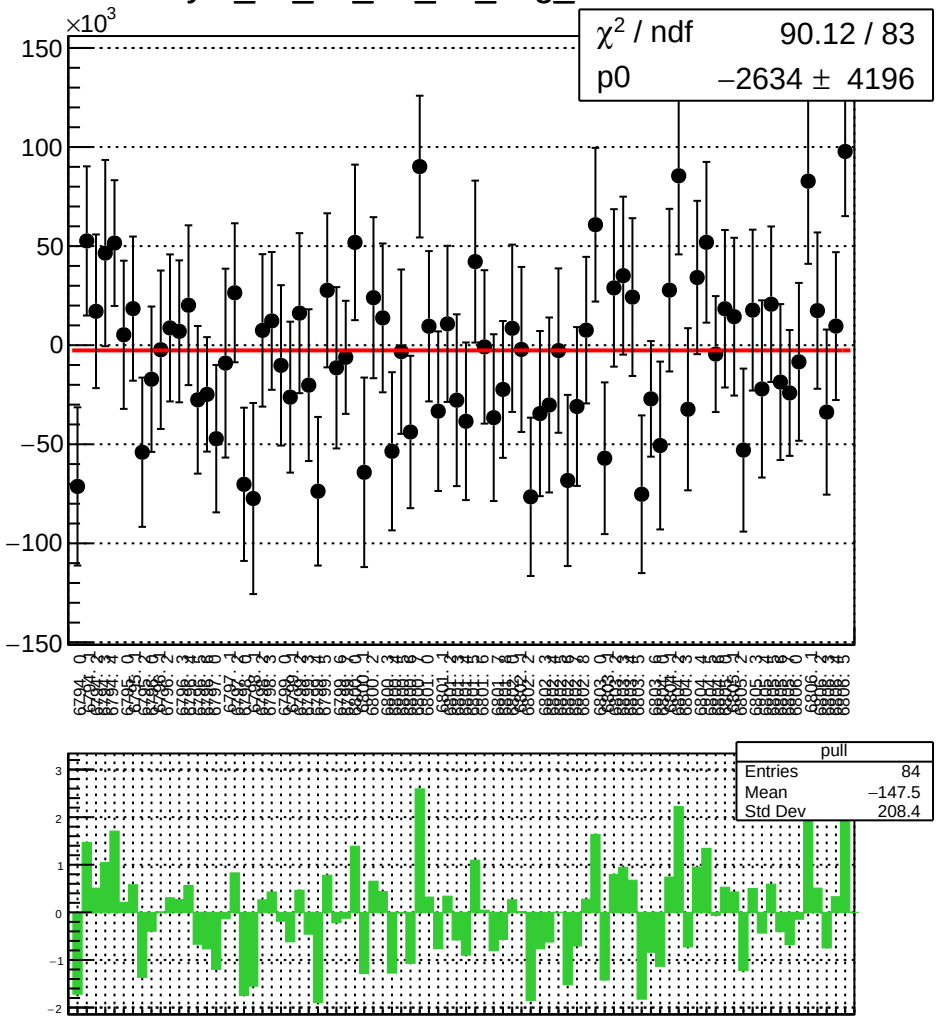

pull1D
Entries 84
Mean −0.01454
Std Dev 1.036

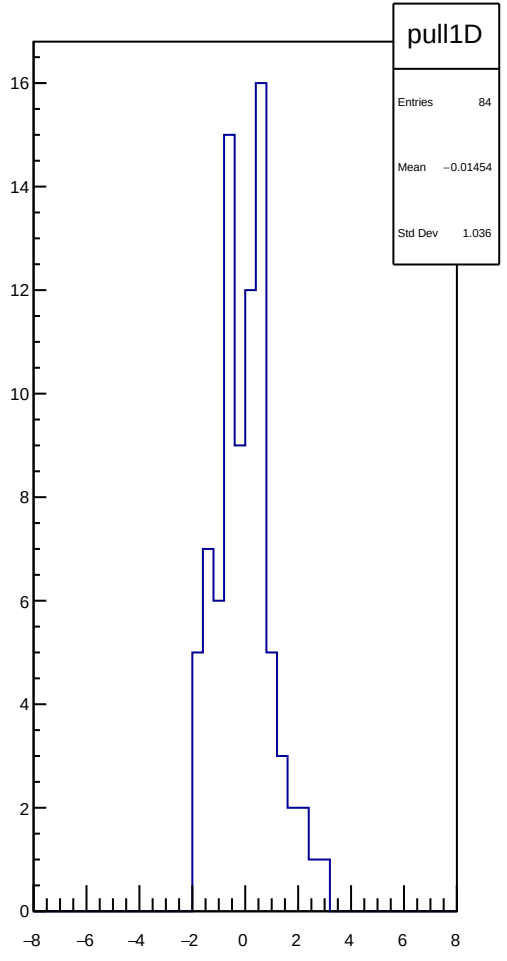

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 4928 / 83
p0 3775 ± 2.967
4600
4400
4200
4000
3800
3600
3400

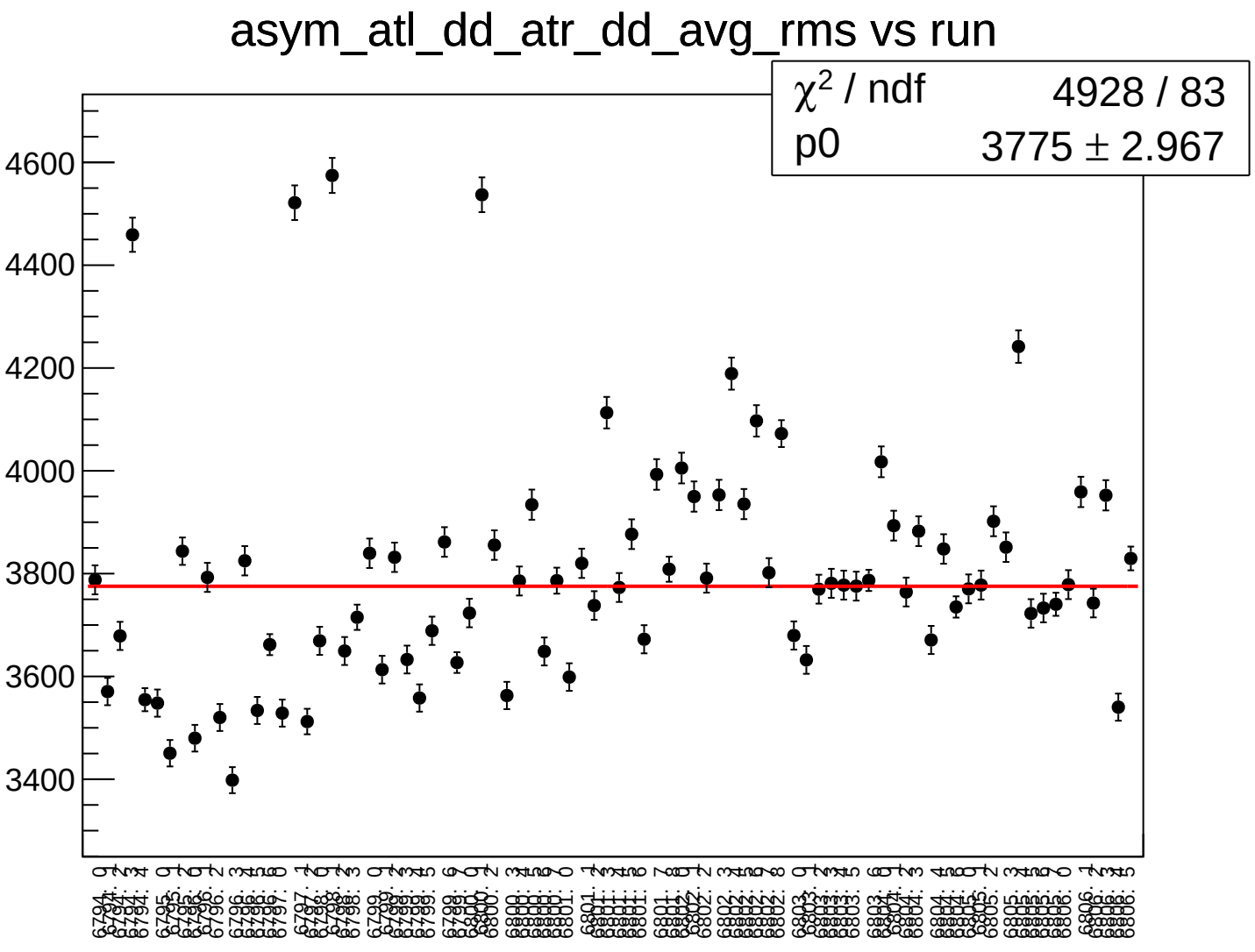

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 83
p0 0 ± 0.1091
1
0.8
0.6
0.4
0.2
0

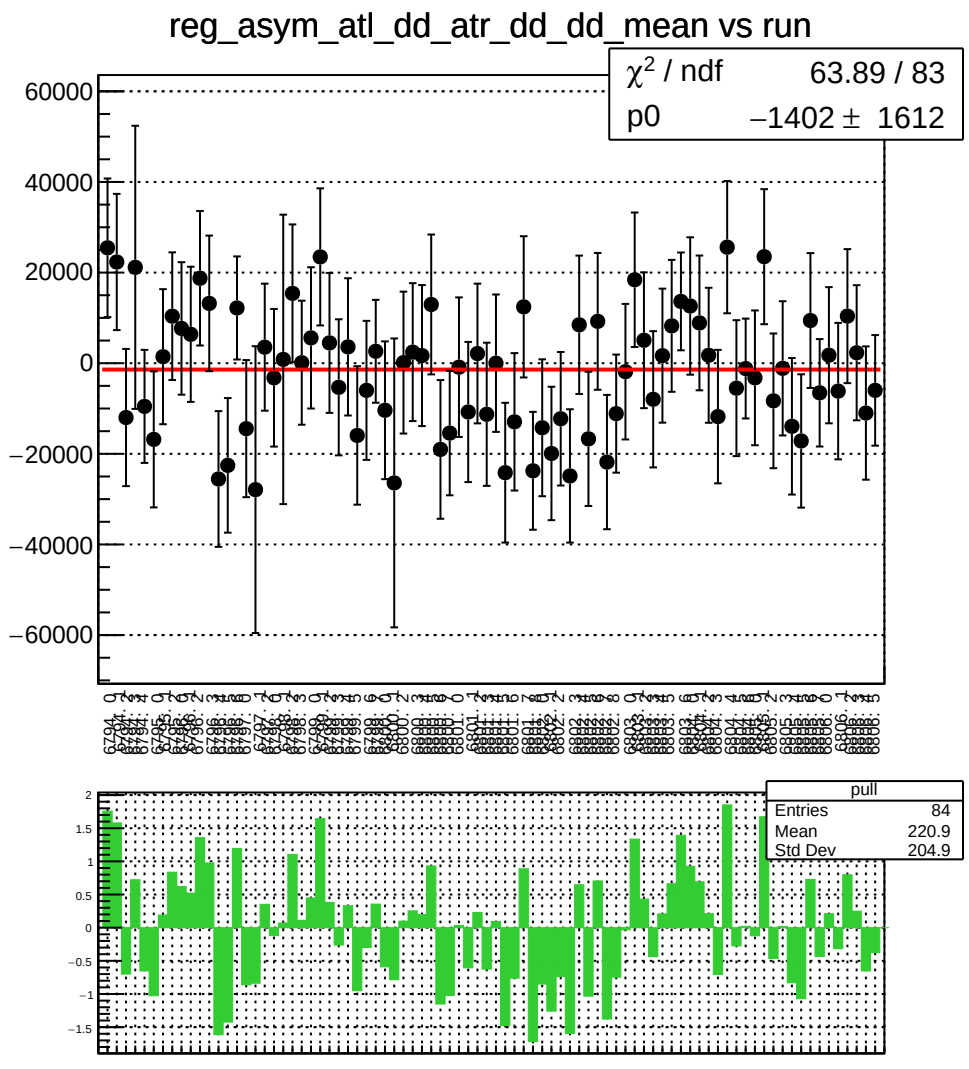

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

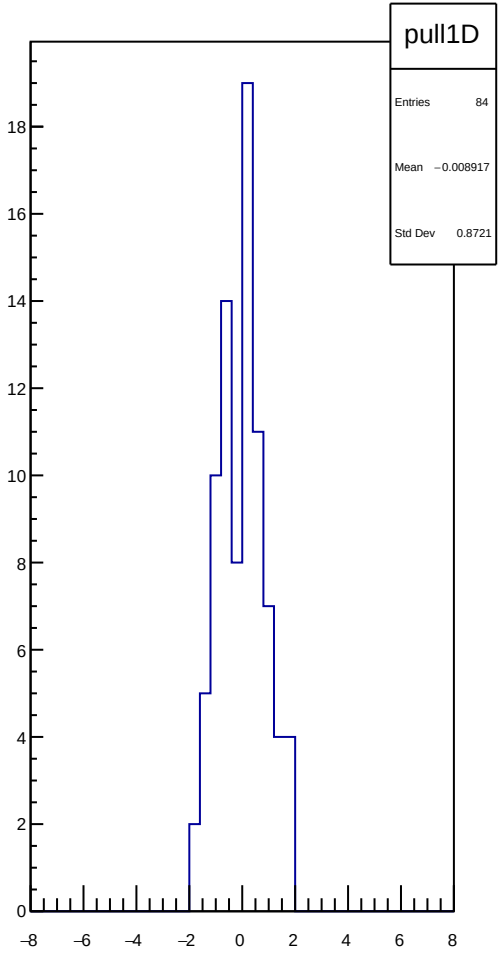

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 83
p0 0 ± 0.1091
1
0.8
0.6
0.4
0.2
0

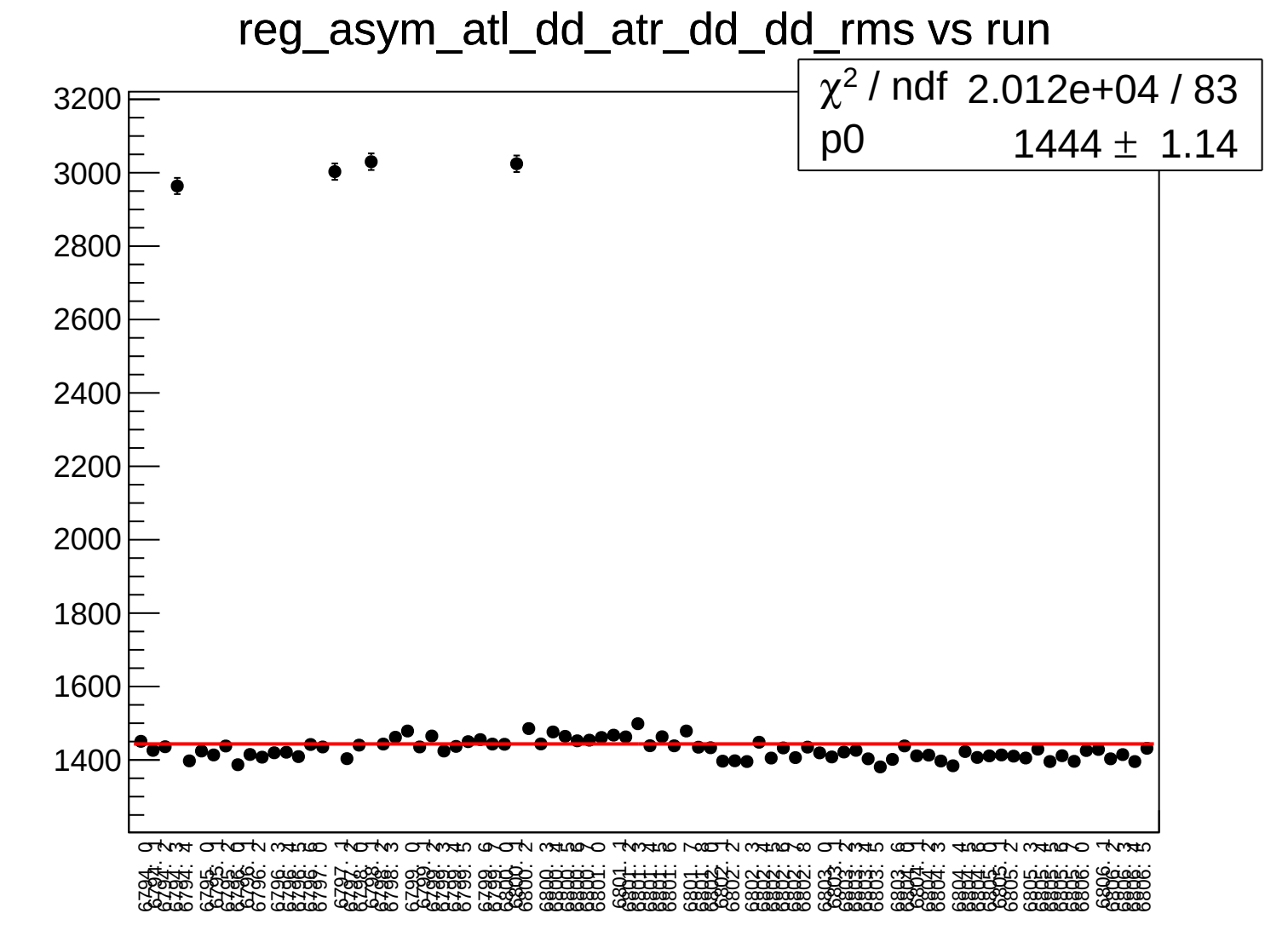

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 90.12 / 83
p0 −2634 ± 4196
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −147.5
Std Dev 208.4
3
2
1
0
−1
−2

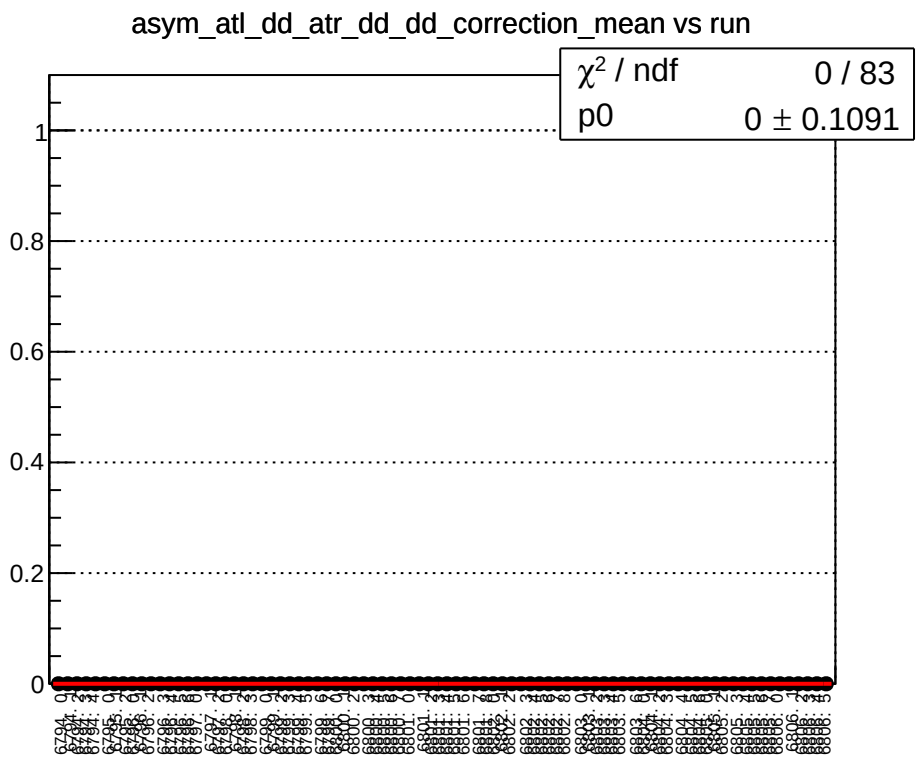

pull1D
Entries 84
Mean −0.01454
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

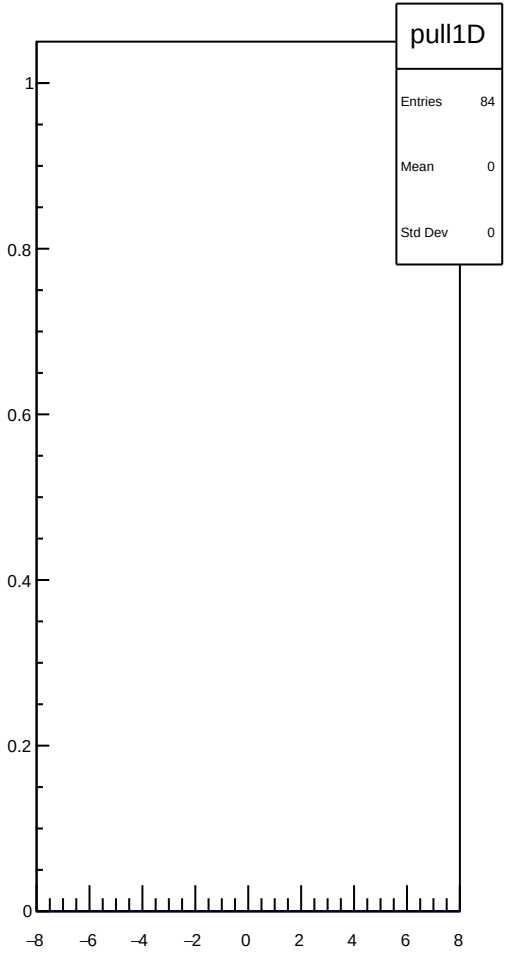

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4928 / 83
p0 3775 ± 2.967
4600
4400
4200
4000
3800
3600
3400

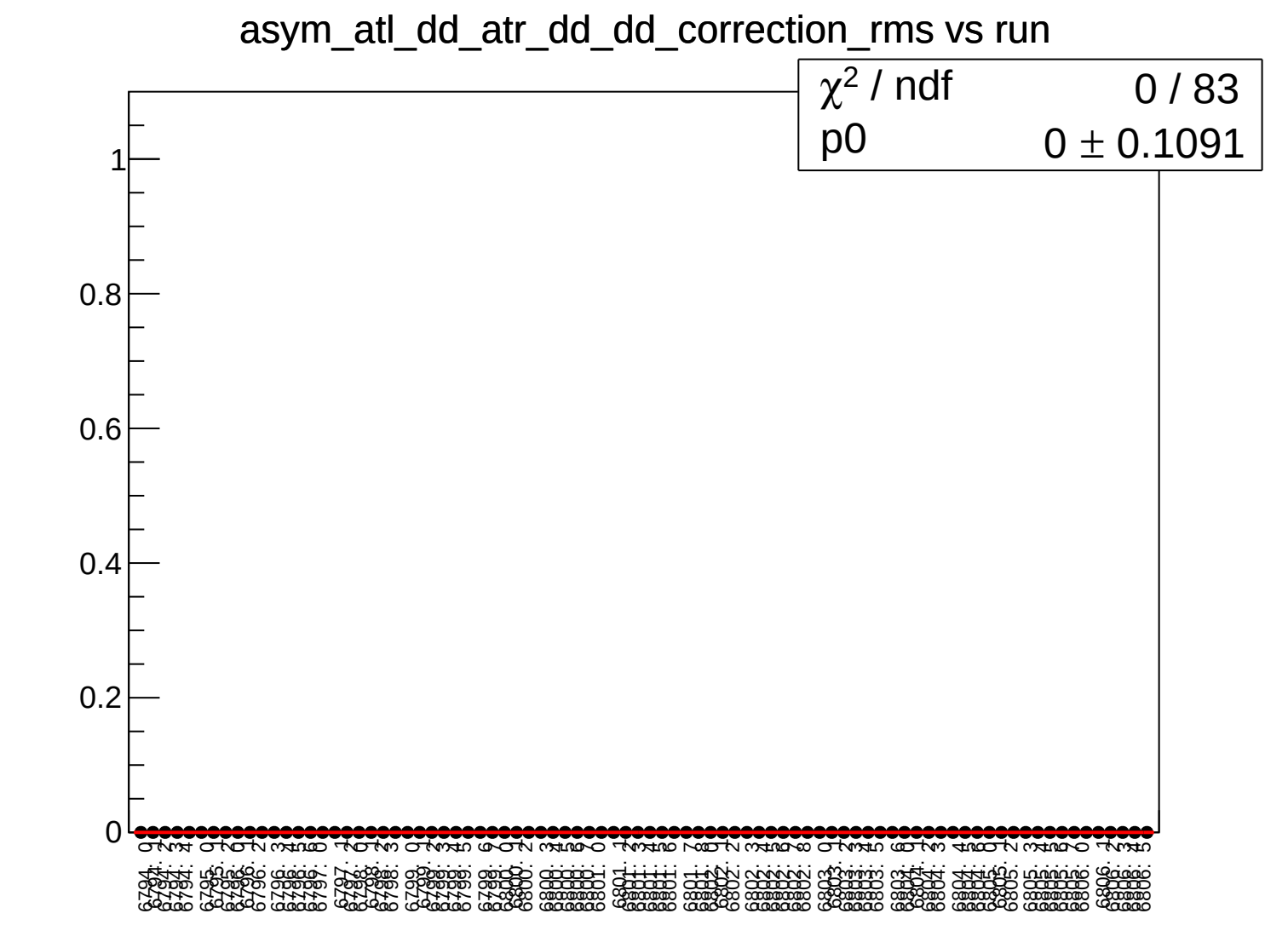

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 63.89 / 83
p0 −1402 ± 1612
pull
Entries 84
Mean 220.9
Std Dev 204.9

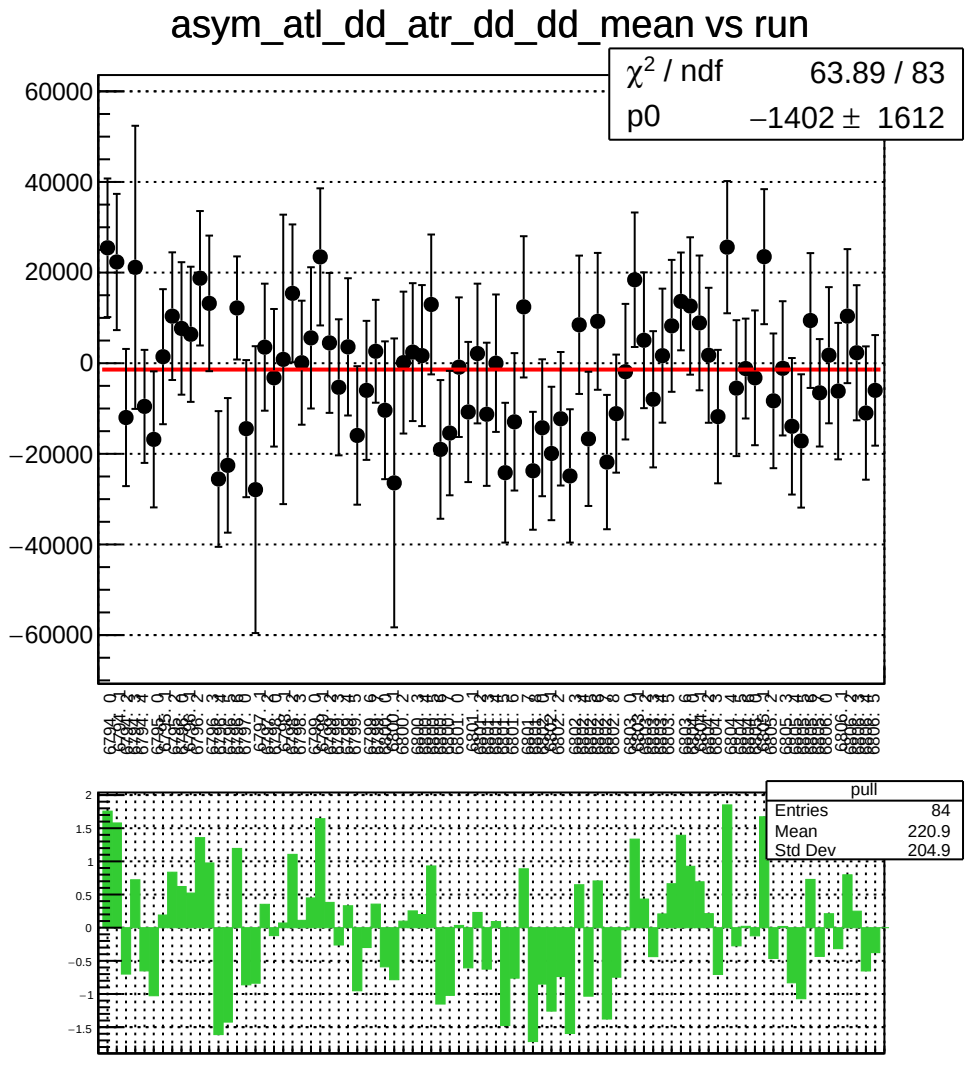

pull1D
Entries 84
Mean −0.008917
Std Dev 0.8721

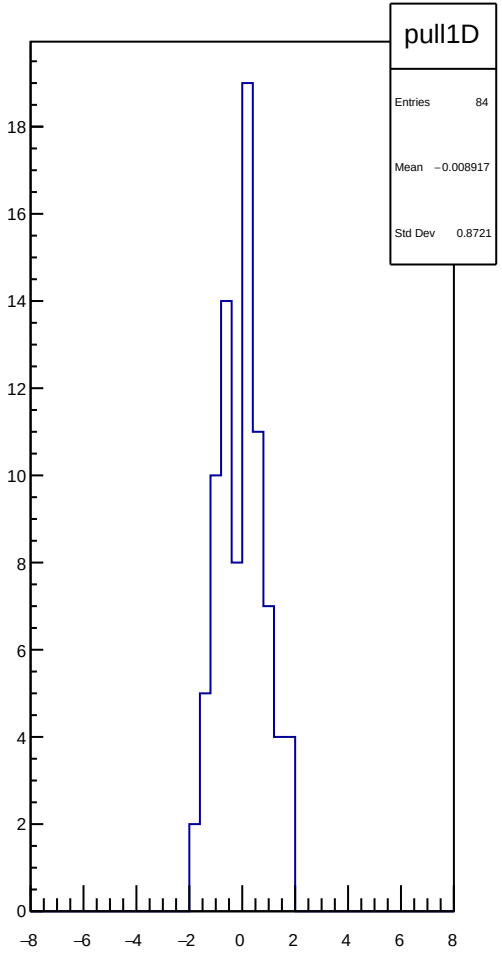

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 2.012e+04 / 83
p0 1444 ± 1.14
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

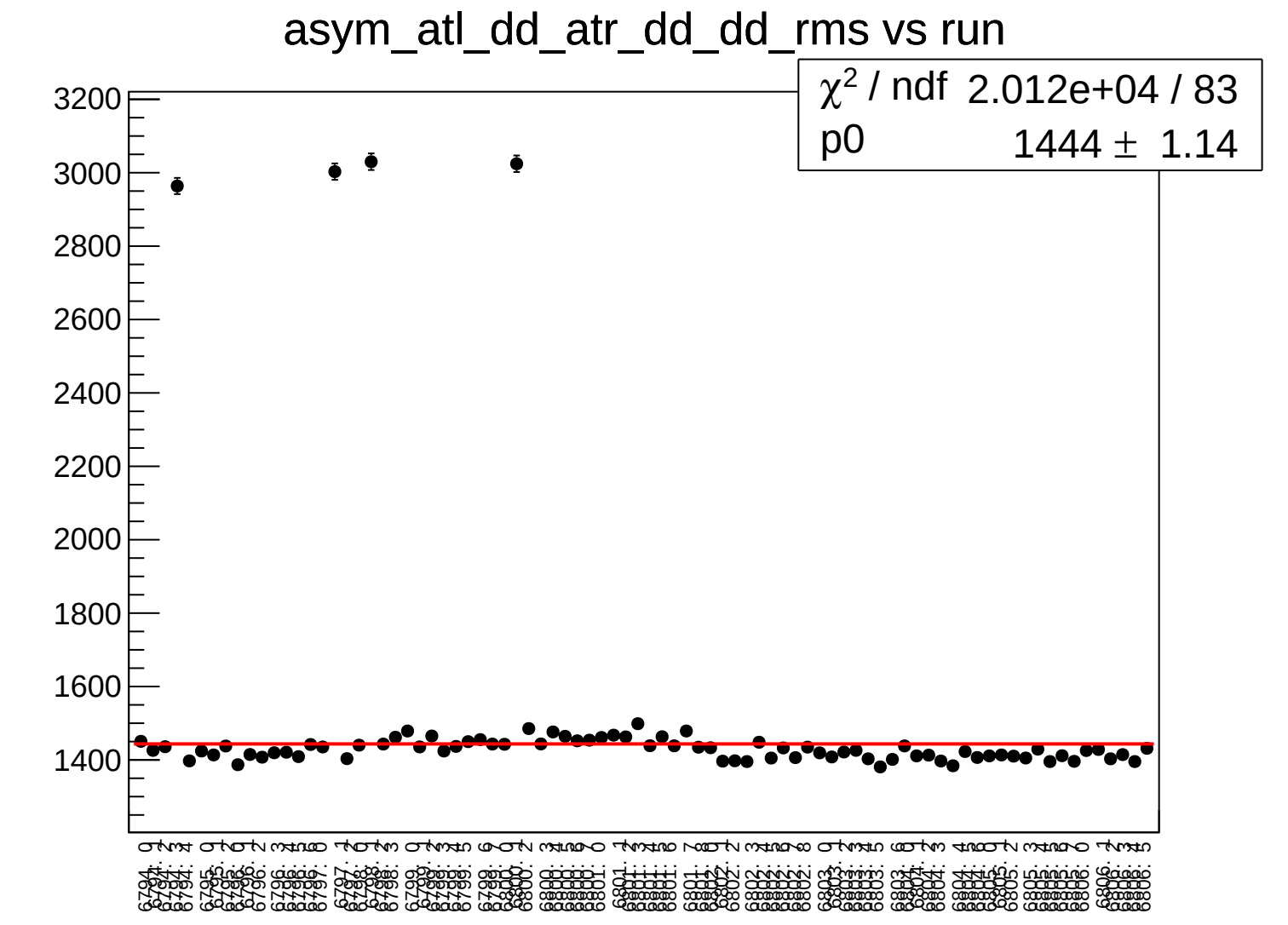

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 83
p0 0 ± 0.1091
1
0.8
0.6
0.4
0.2
0

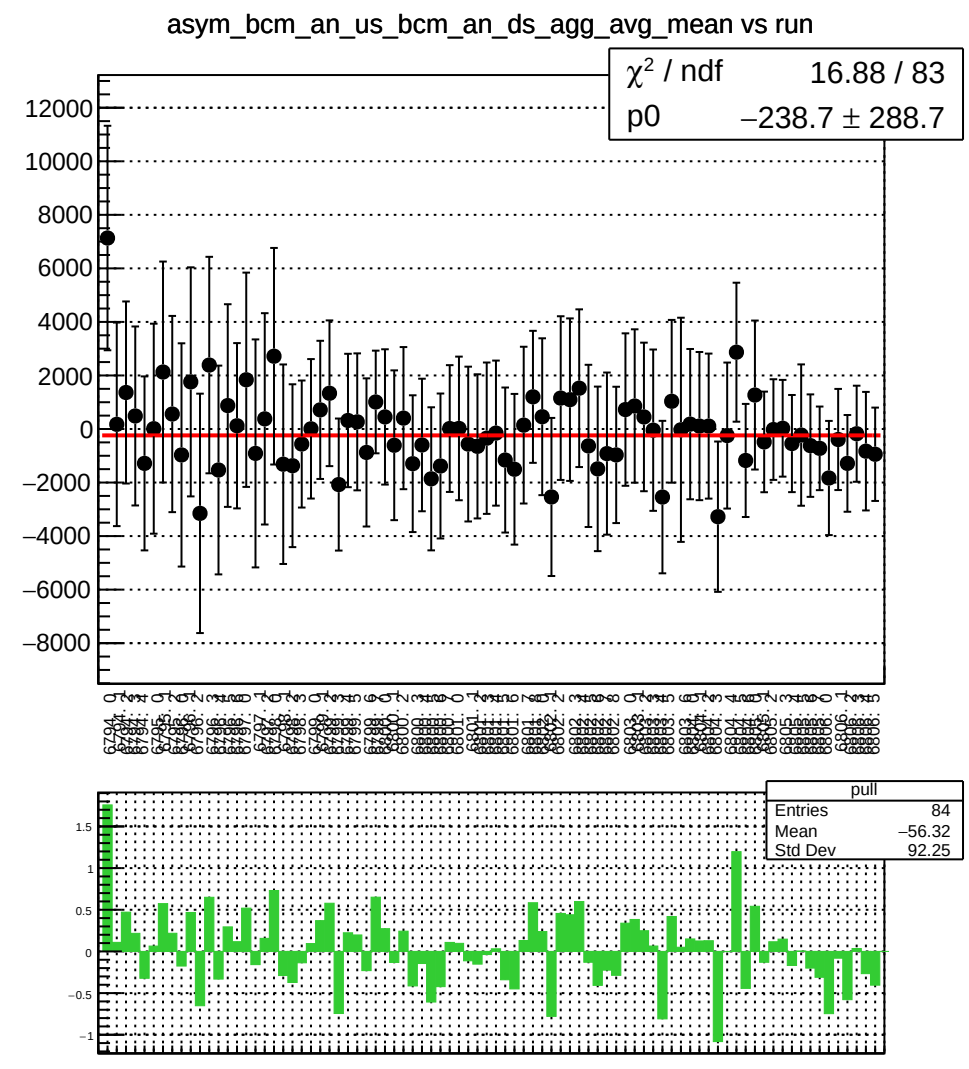

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

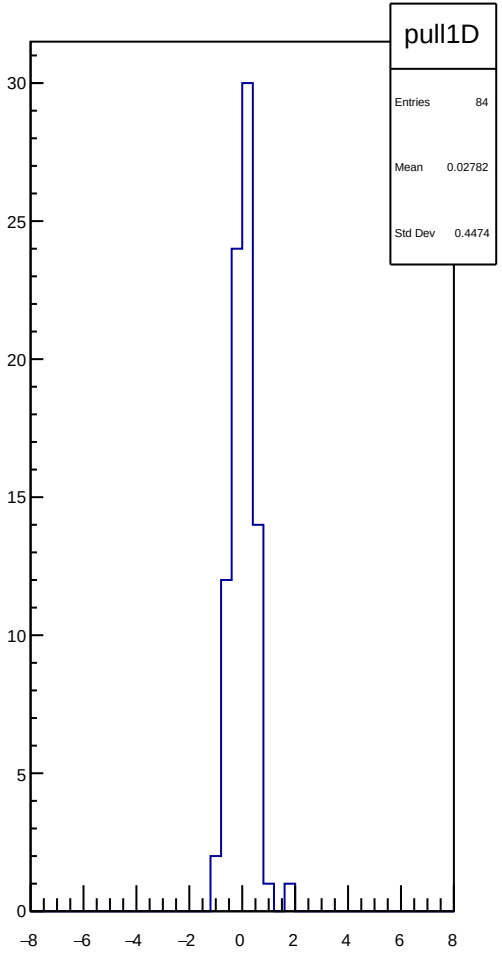

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 83
p0 0 ± 0.1091
1
0.8
0.6
0.4
0.2
0

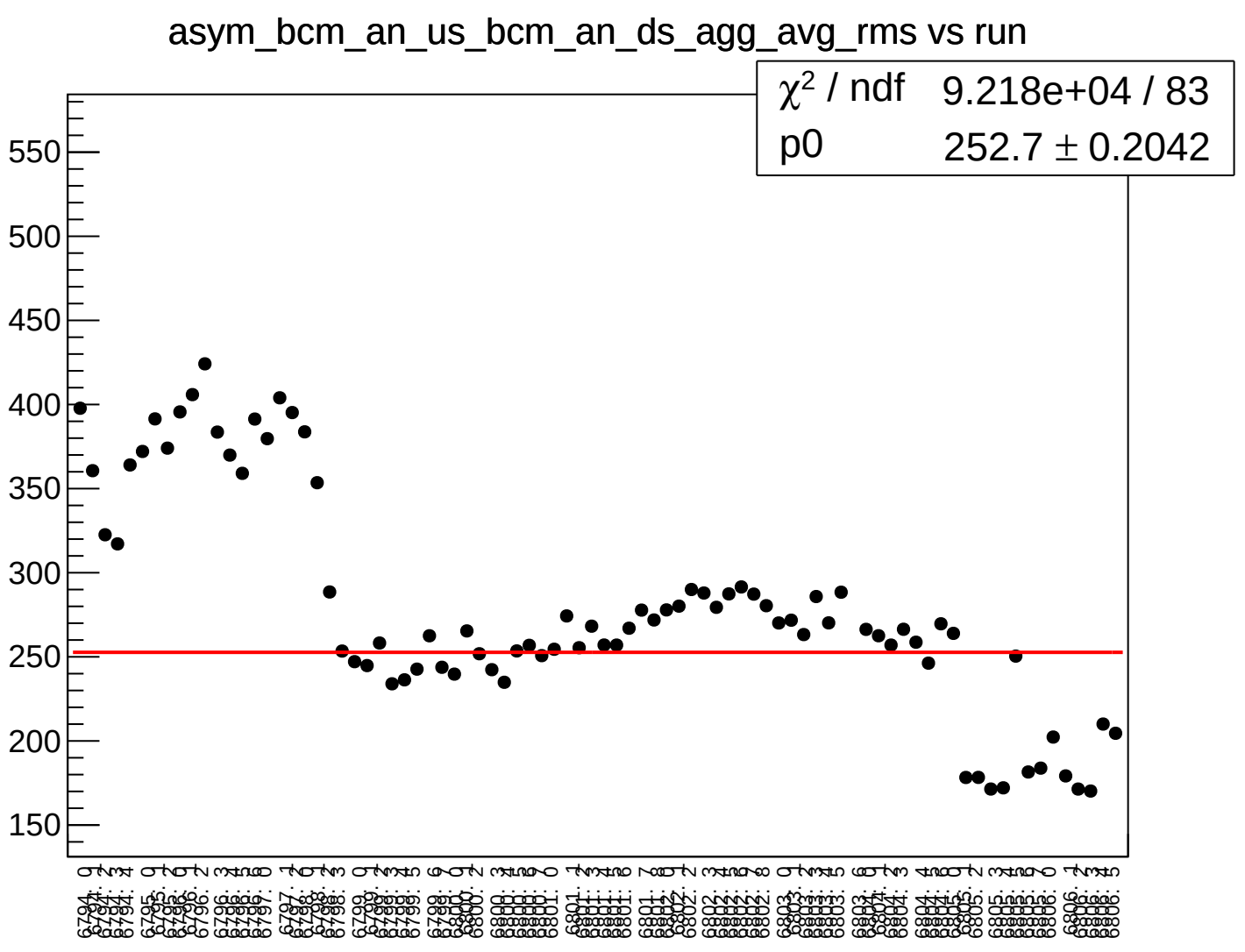

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 63.89 / 83
p0 −1402 ± 1612
pull
Entries 84
Mean 220.9
Std Dev 204.9

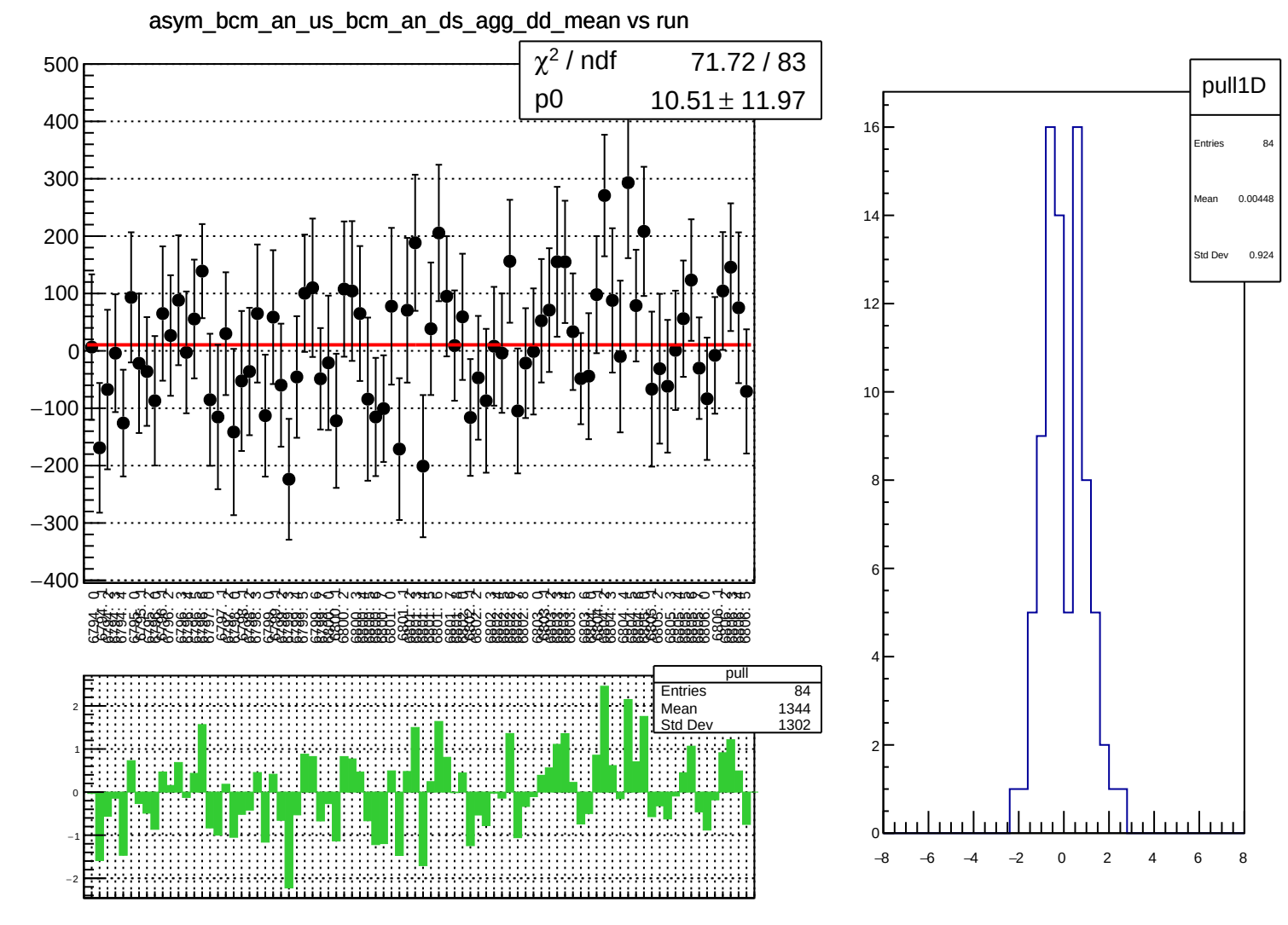

pull1D
Entries 84
Mean −0.008917
Std Dev 0.8721

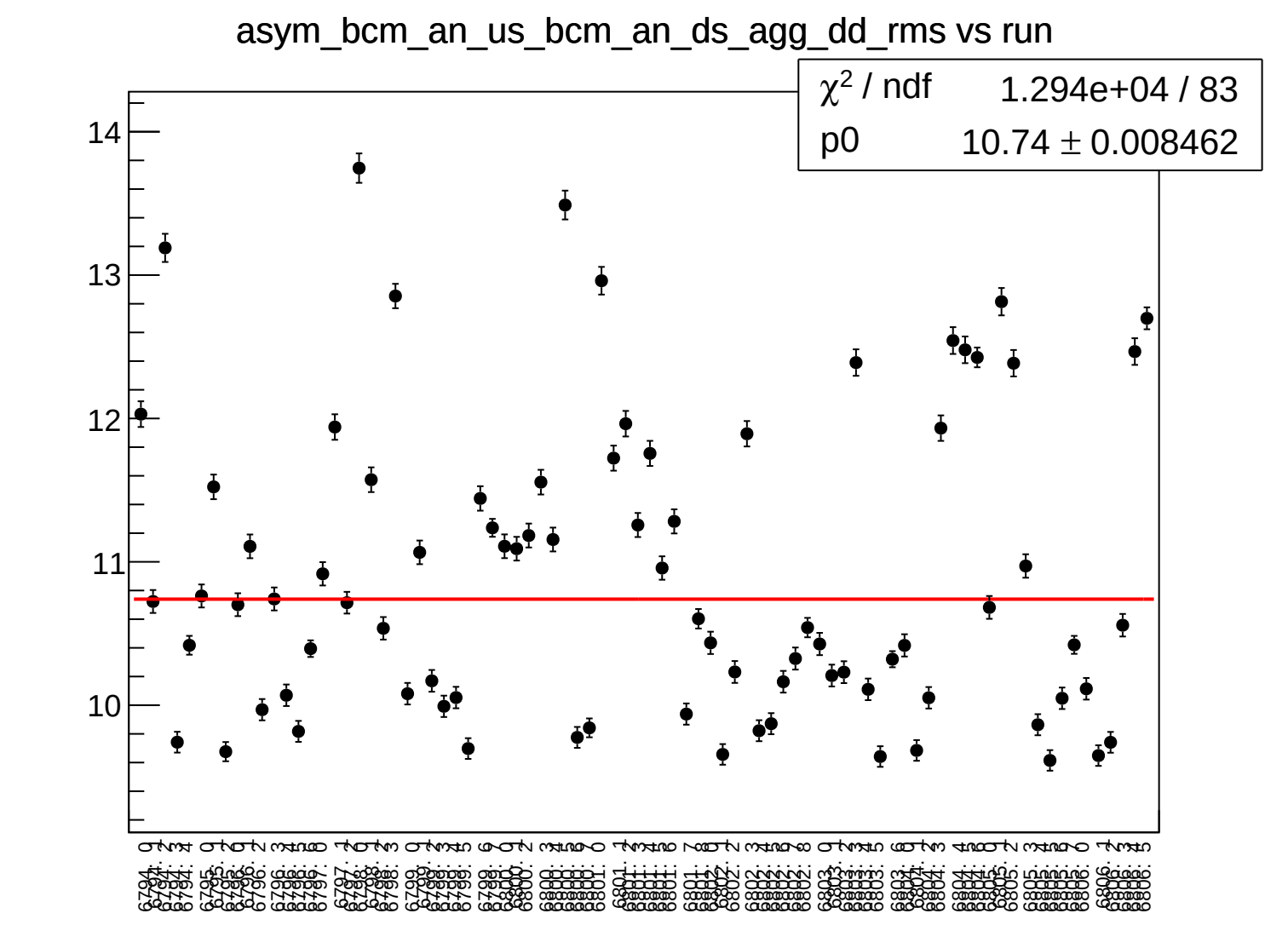

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 2.012e+04 / 83
p0 1444 ± 1.14
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

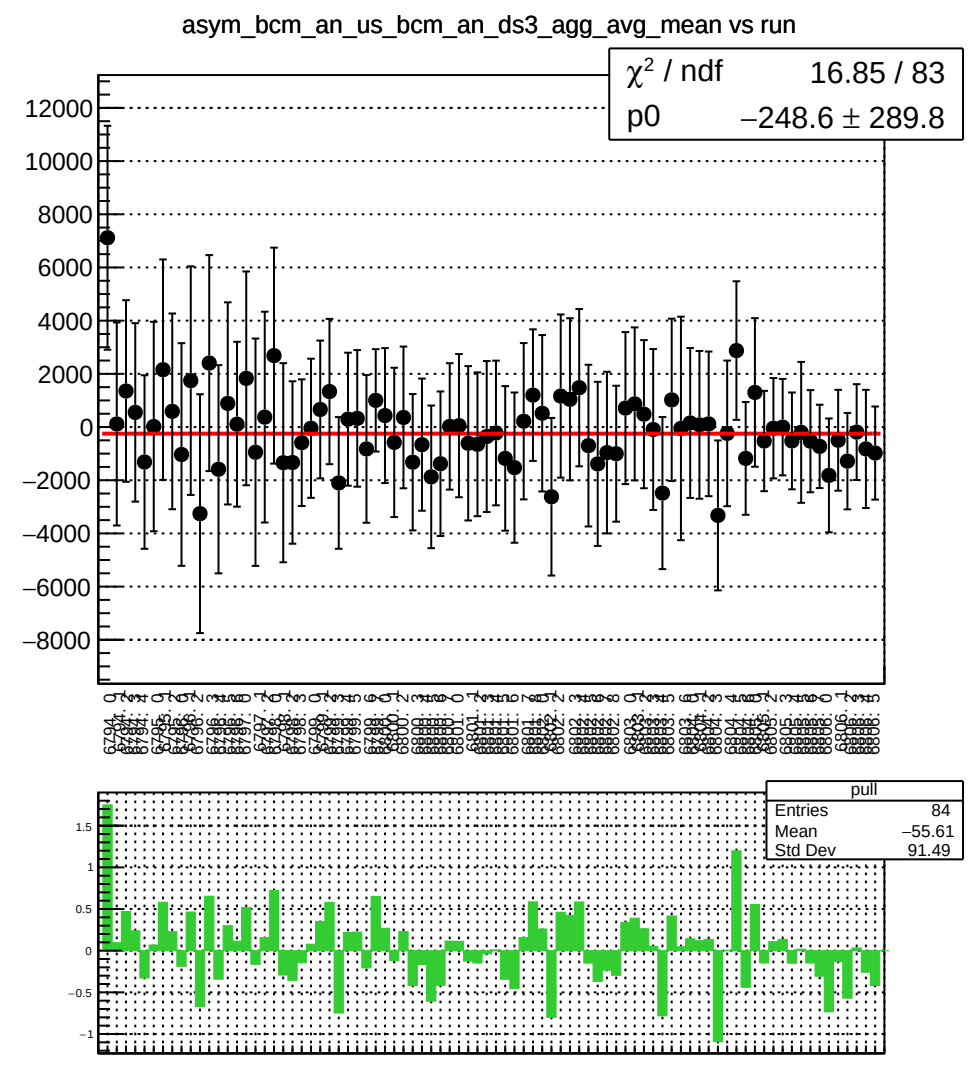

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 16.88 / 83
p0 −238.7 ± 288.7
pull
Entries 84
Mean −56.32
Std Dev 92.25

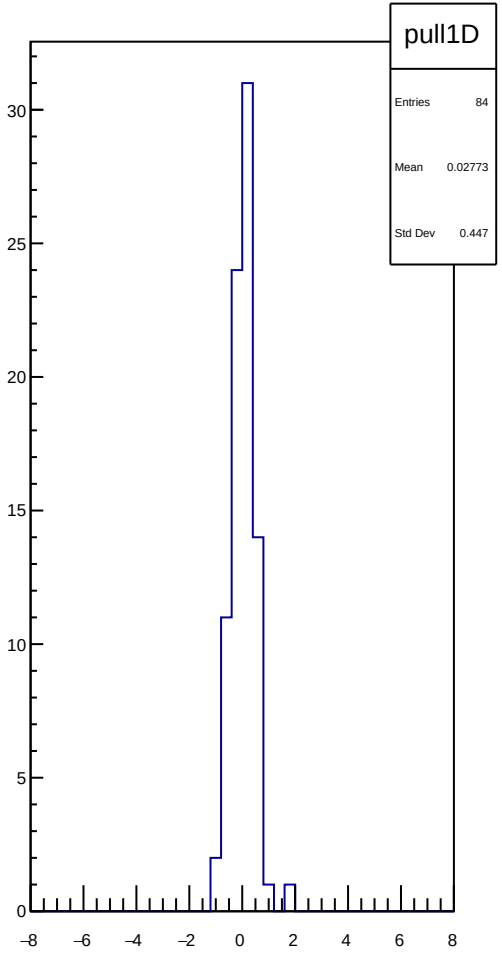

pull1D
Entries 84
Mean 0.02782
Std Dev 0.4474

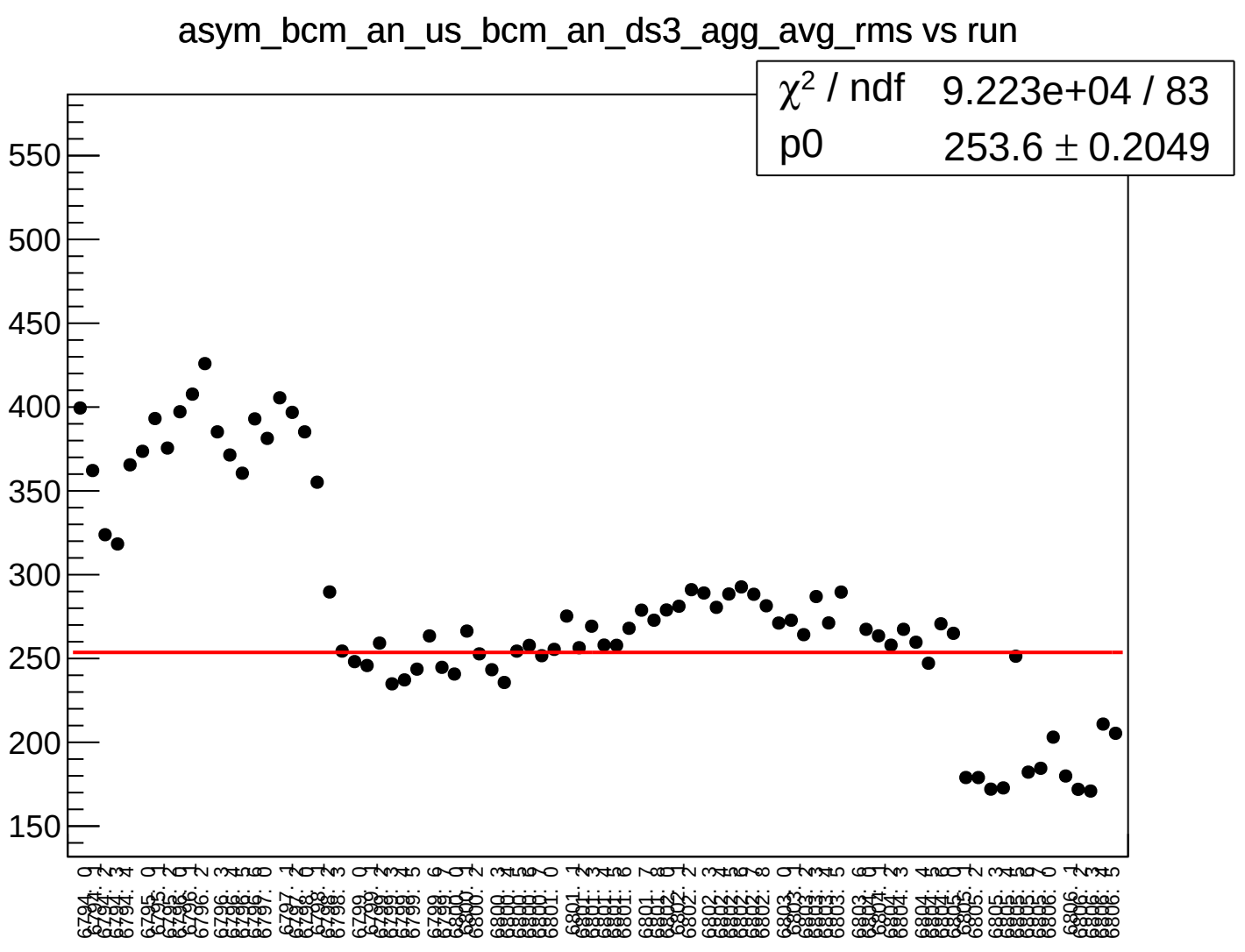

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9.218e+04 / 83
p0 252.7 ± 0.2042
550
500
450
400
350
300
250
200
150

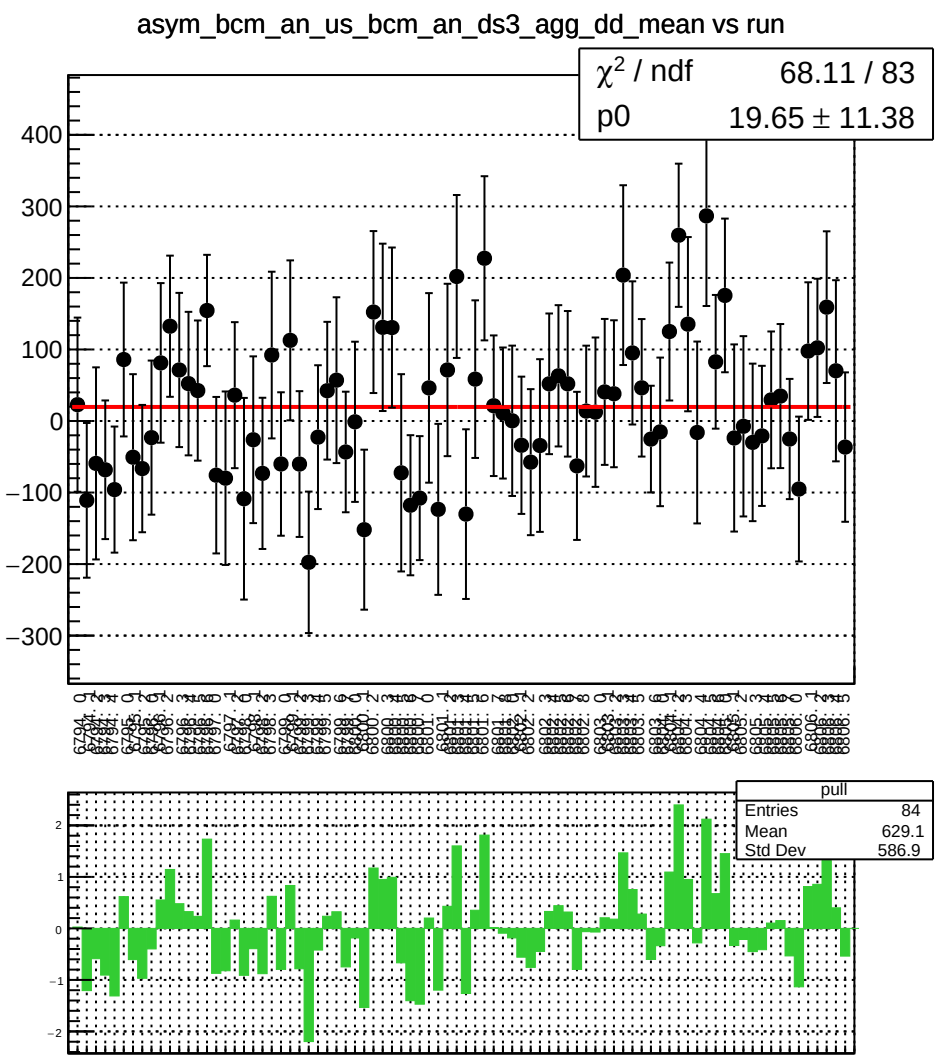

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 71.72 / 83
p0 10.51 ± 11.97
pull
Entries 84
Mean 1344
Std Dev 1302
pull1D
Entries 84
Mean 0.00448
Std Dev 0.924

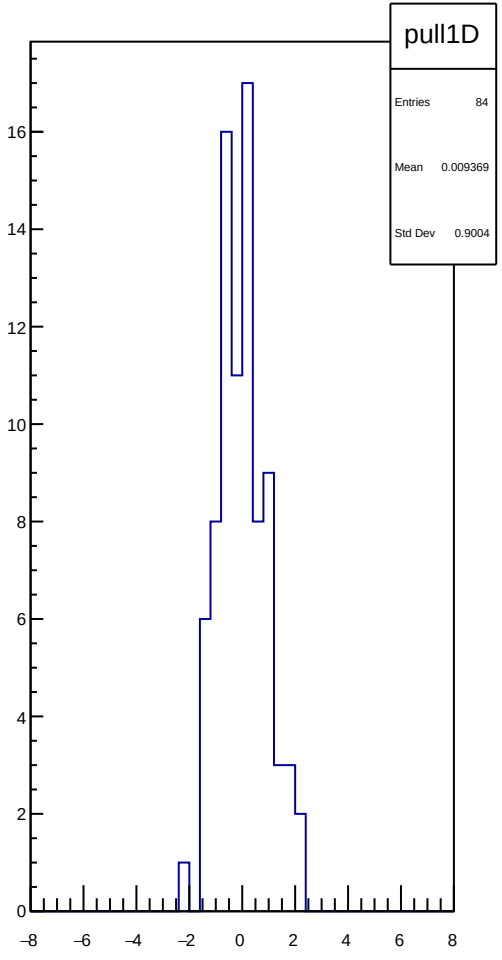

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.294e+04 / 83
p0 10.74 ± 0.008462
14
13
12
11
10

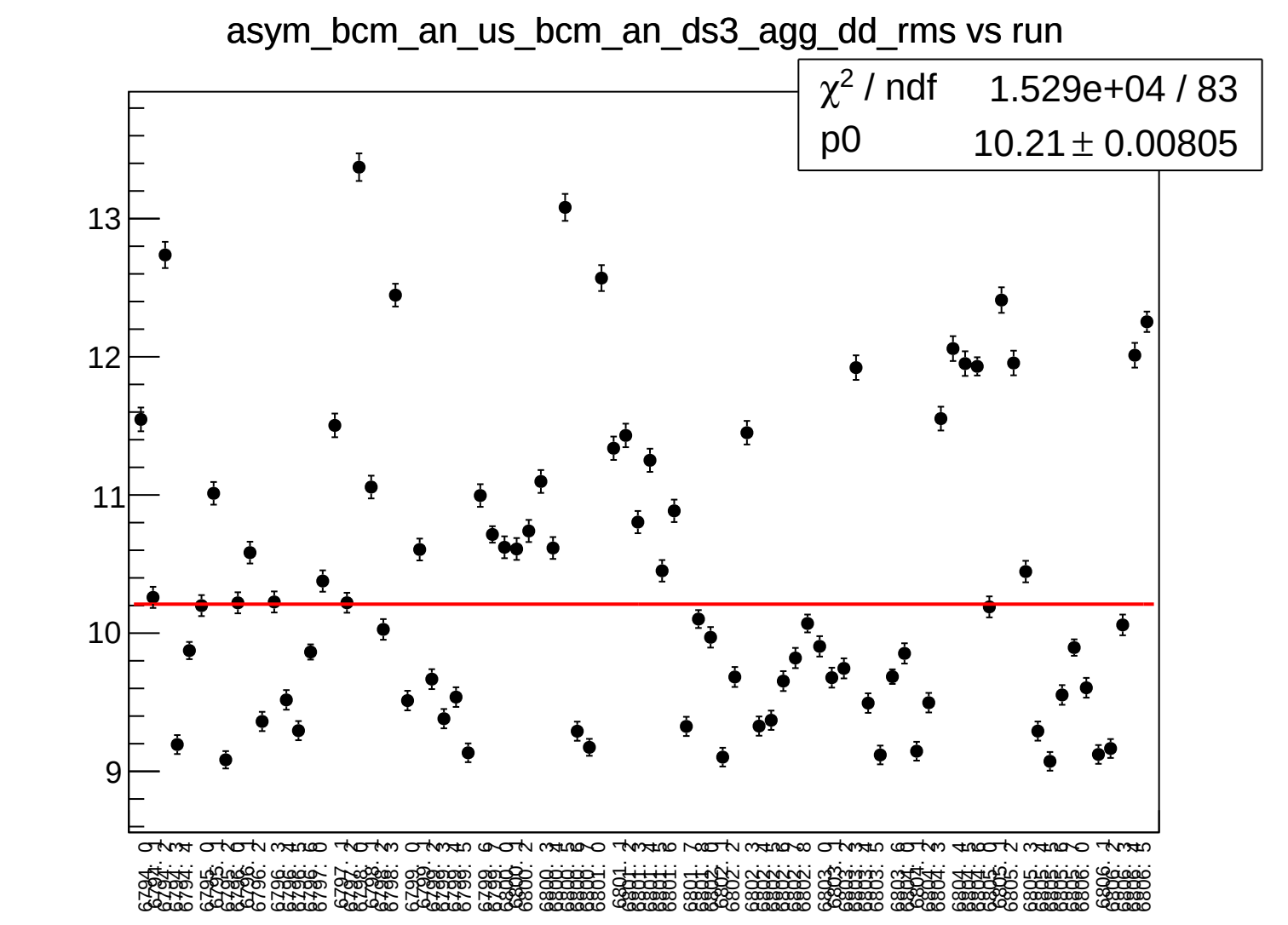

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 16.85 / 83
p0 −248.6 ± 289.8
pull
Entries 84
Mean −55.61
Std Dev 91.49

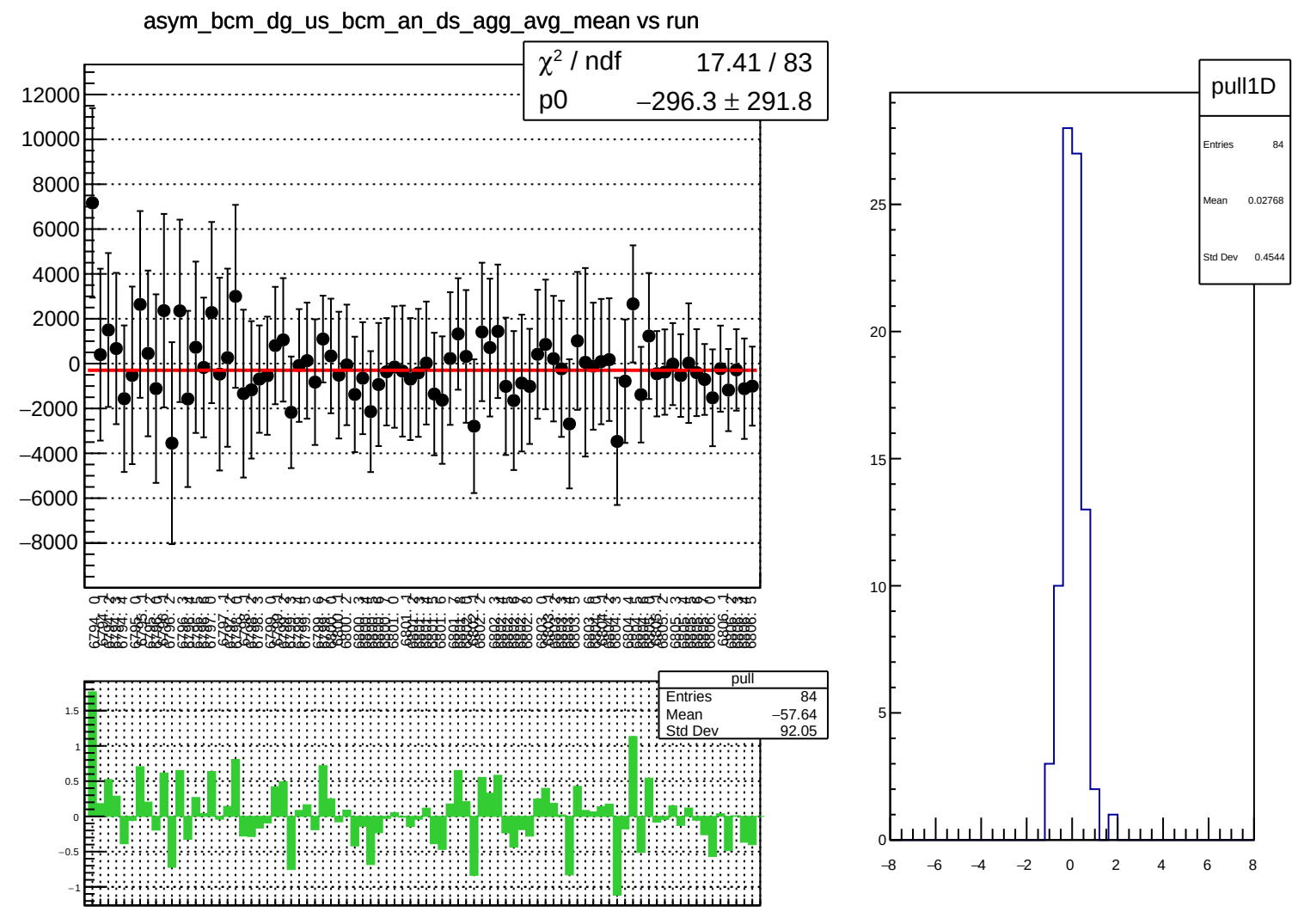

pull1D
Entries 84
Mean 0.02773
Std Dev 0.447

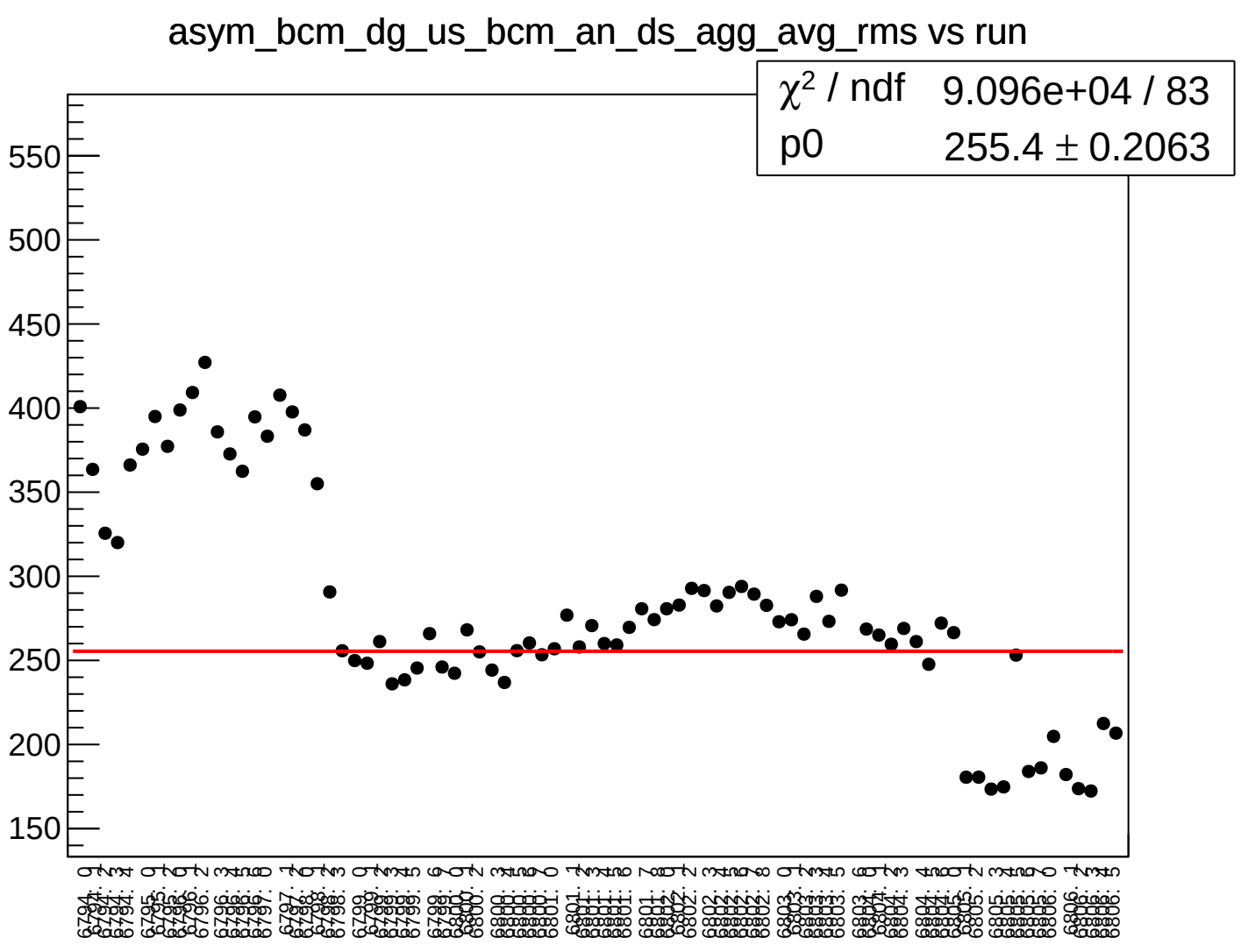

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 9.223e+04 / 83
p0 253.6 ± 0.2049
550
500
450
400
350
300
250
200
150

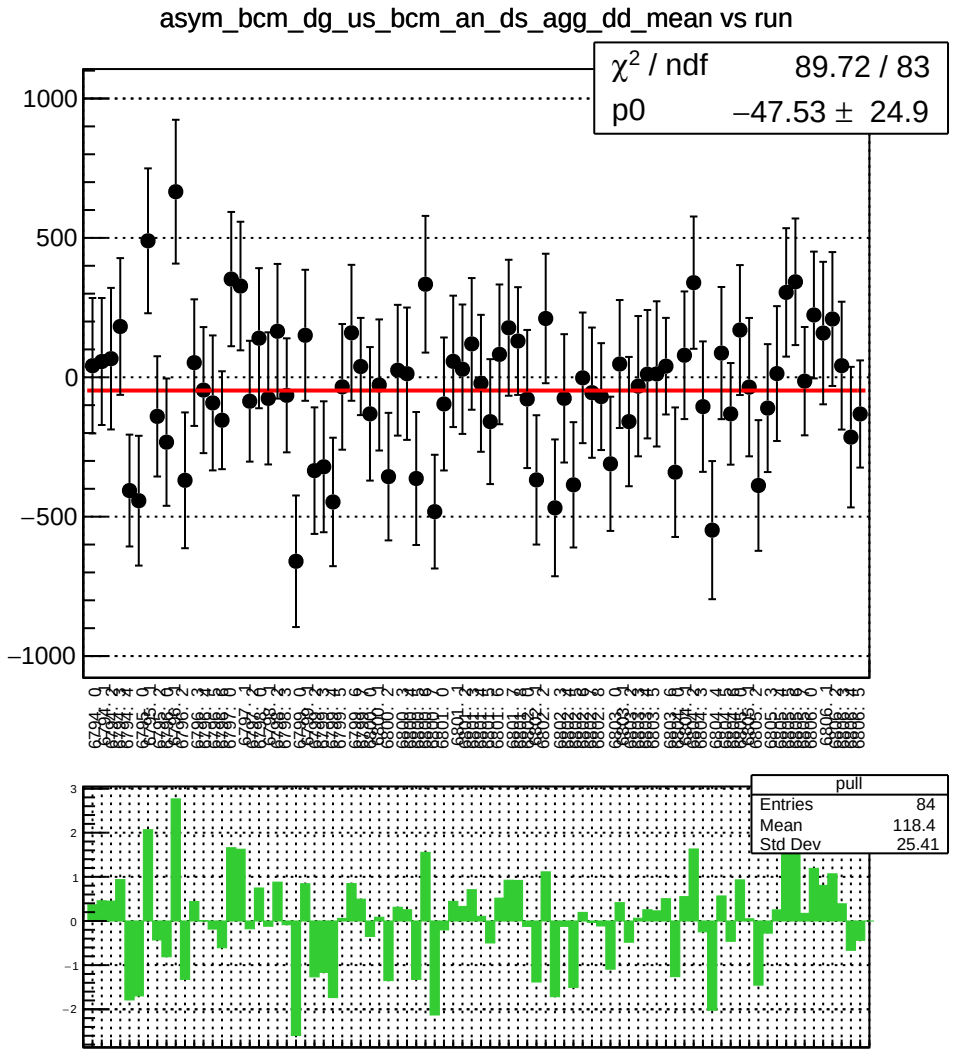

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 68.11 / 83
p0 19.65 ± 11.38
pull
Entries 84
Mean 629.1
Std Dev 586.9

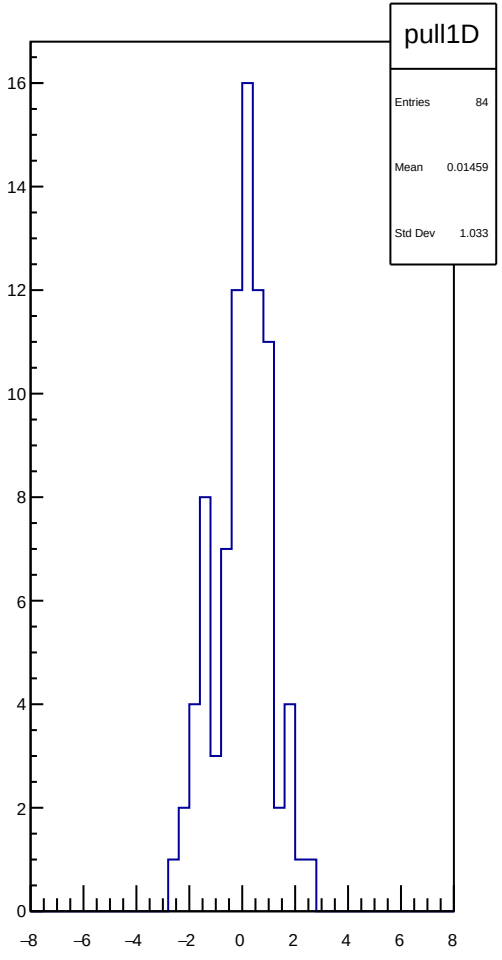

pull1D
Entries 84
Mean 0.009369
Std Dev 0.9004

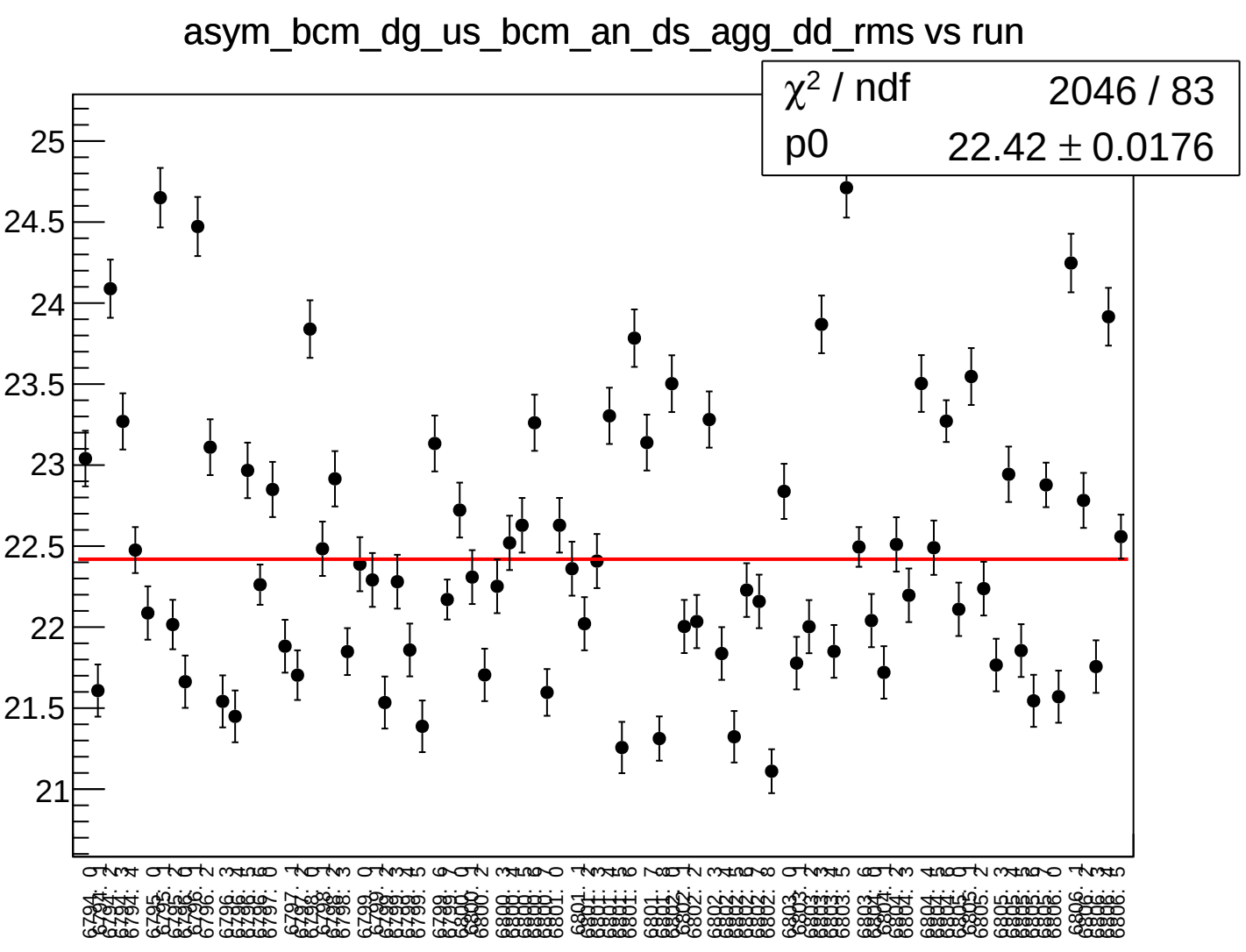

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.529e+04 / 83
p0 10.21 ± 0.00805
13
12
11
10
9

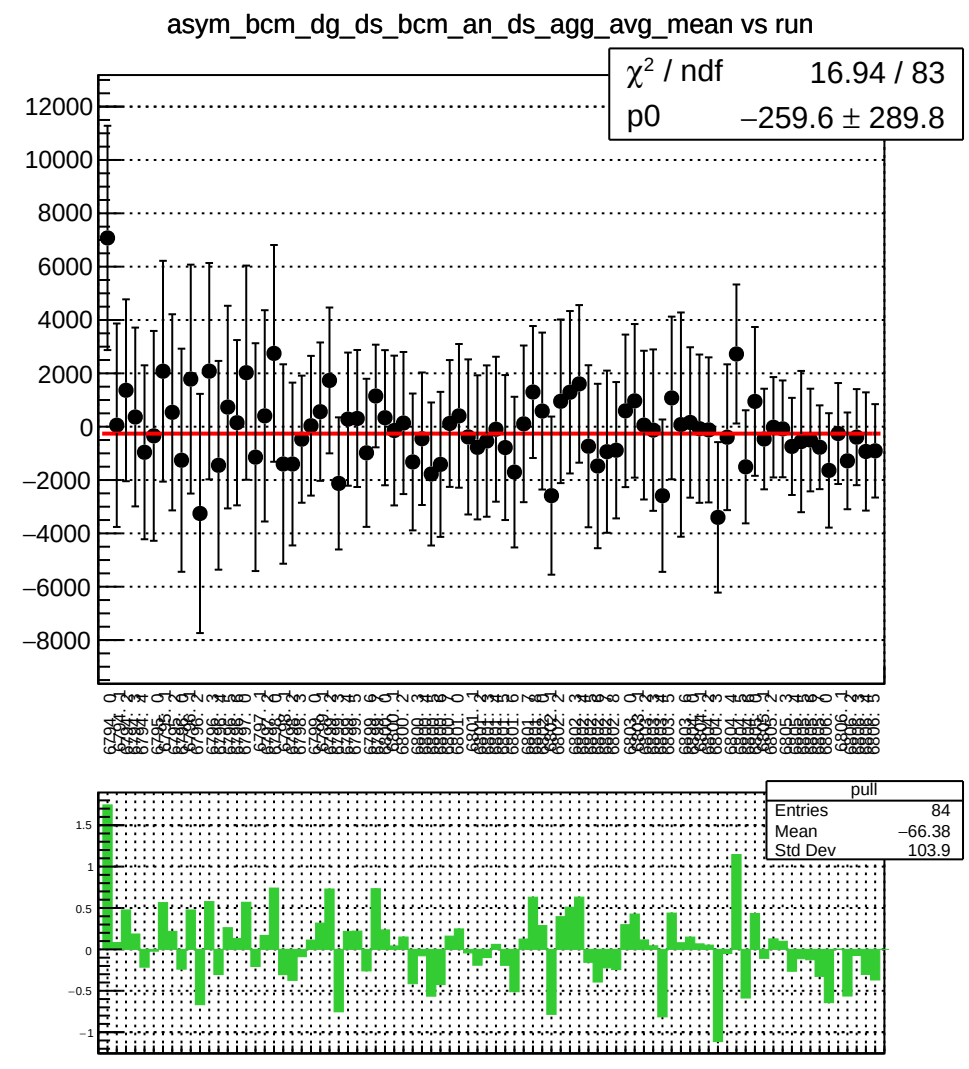

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.41 / 83
p0 −296.3 ± 291.8
pull
Entries 84
Mean −57.64
Std Dev 92.05
pull1D
Entries 84
Mean 0.02768
Std Dev 0.4544

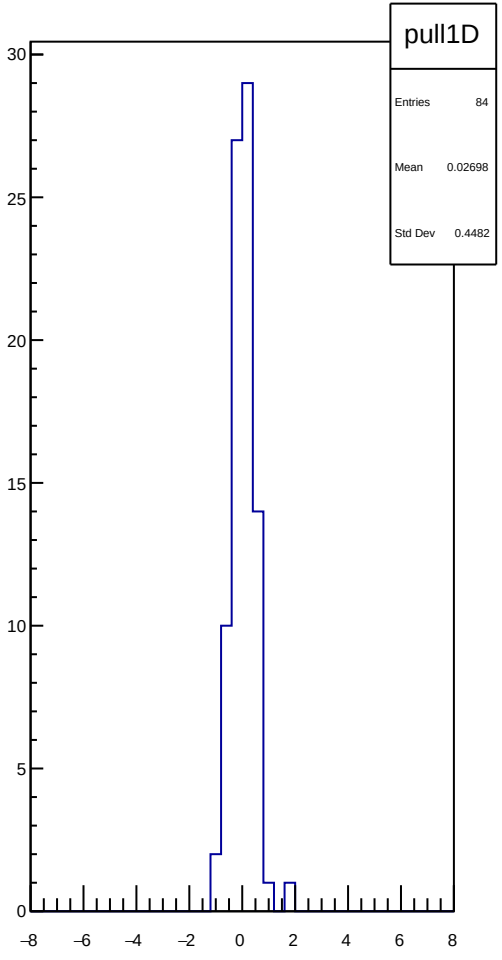

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9.096e+04 / 83
p0 255.4 ± 0.2063
550
500
450
400
350
300
250
200
150

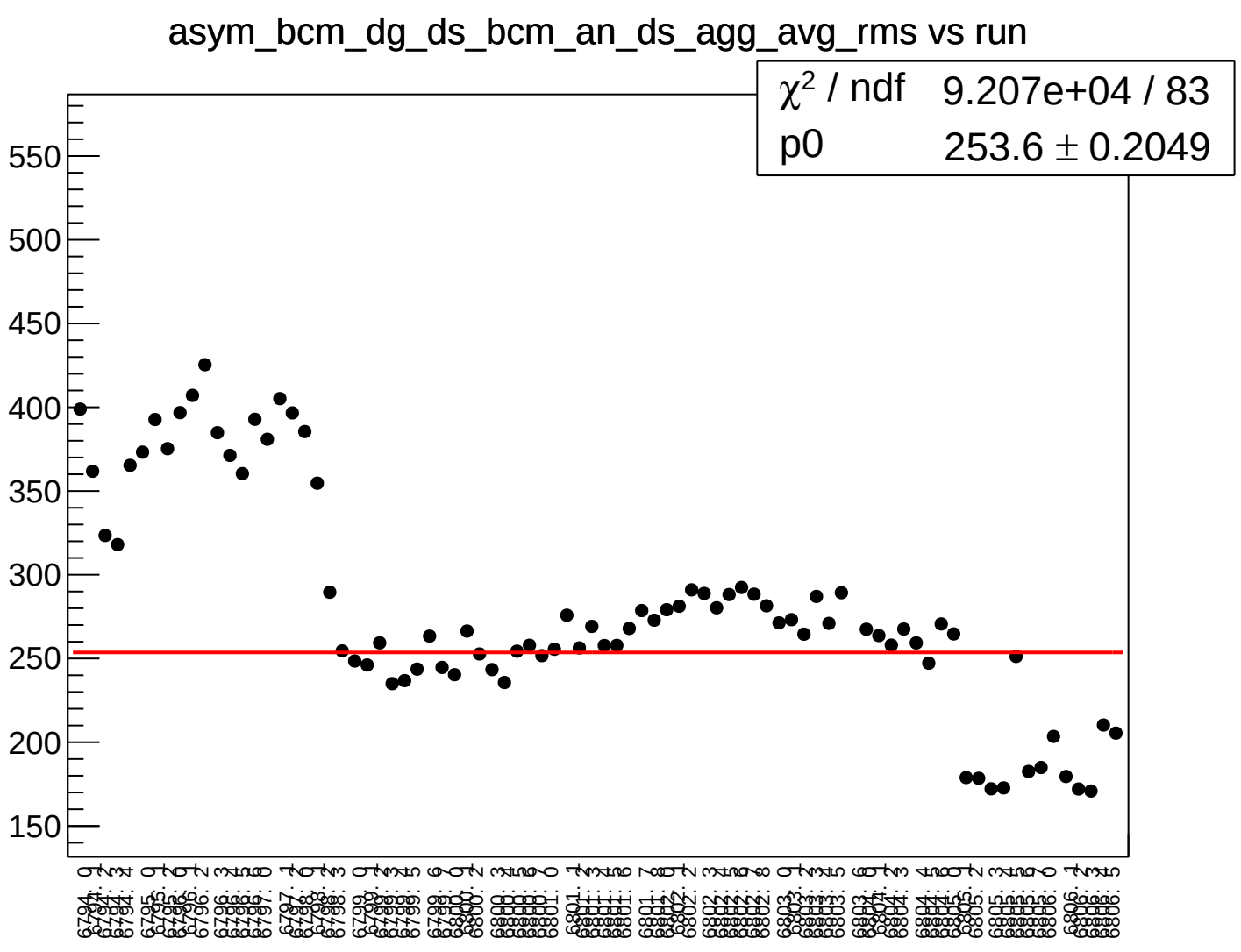

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 89.72 / 83
p0 −47.53 ± 24.9
1000
500
0
−500
−1000
pull
Entries 84
Mean 118.4
Std Dev 25.41
3
2
1
0
−1
−2

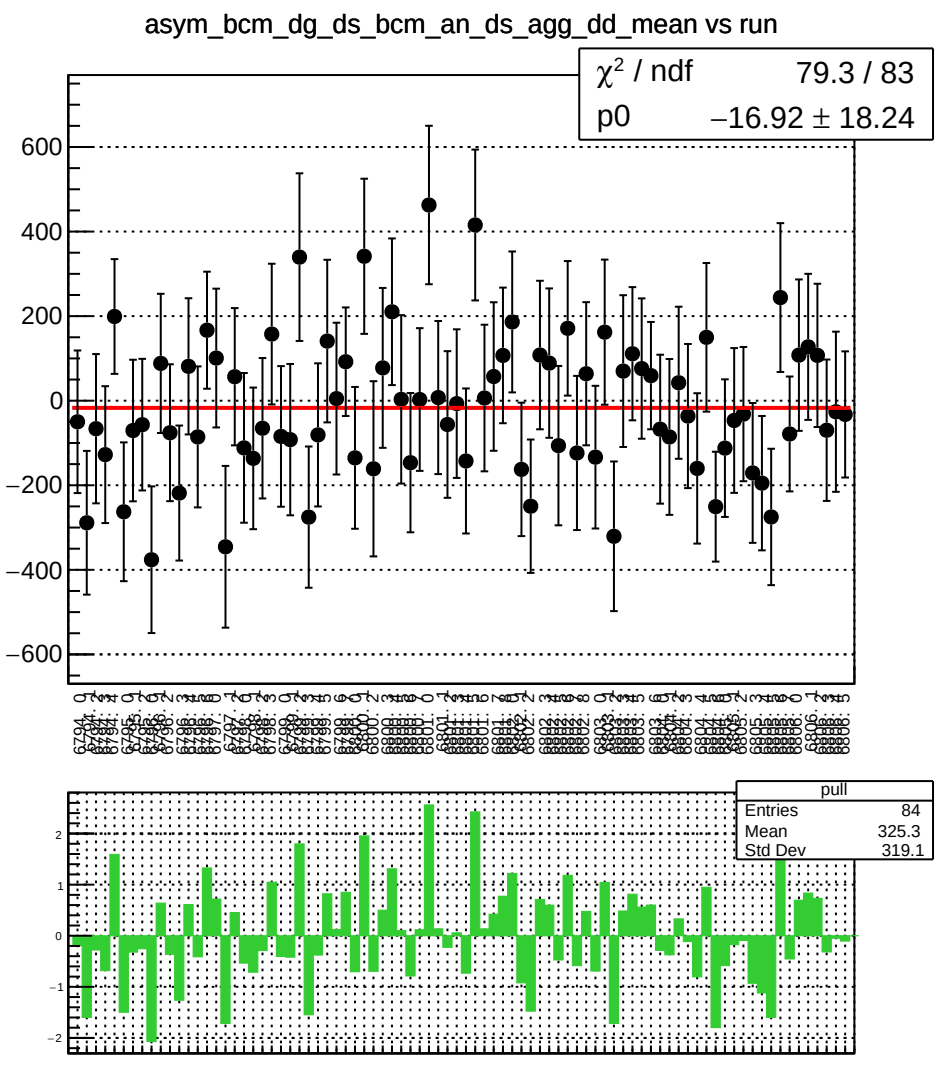

pull1D
Entries 84
Mean 0.01459
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

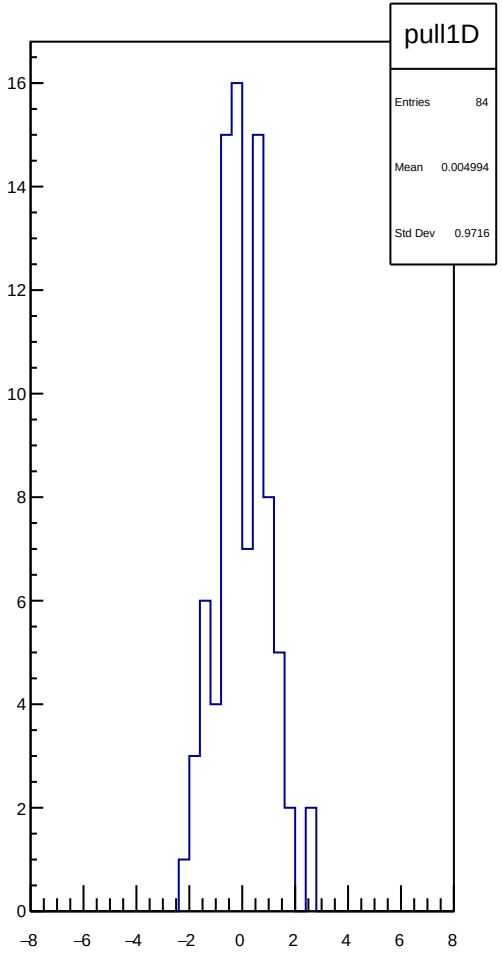

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2046 / 83
p0 22.42 ± 0.0176
25
24.5
24
23.5
23
22.5
22
21.5
21

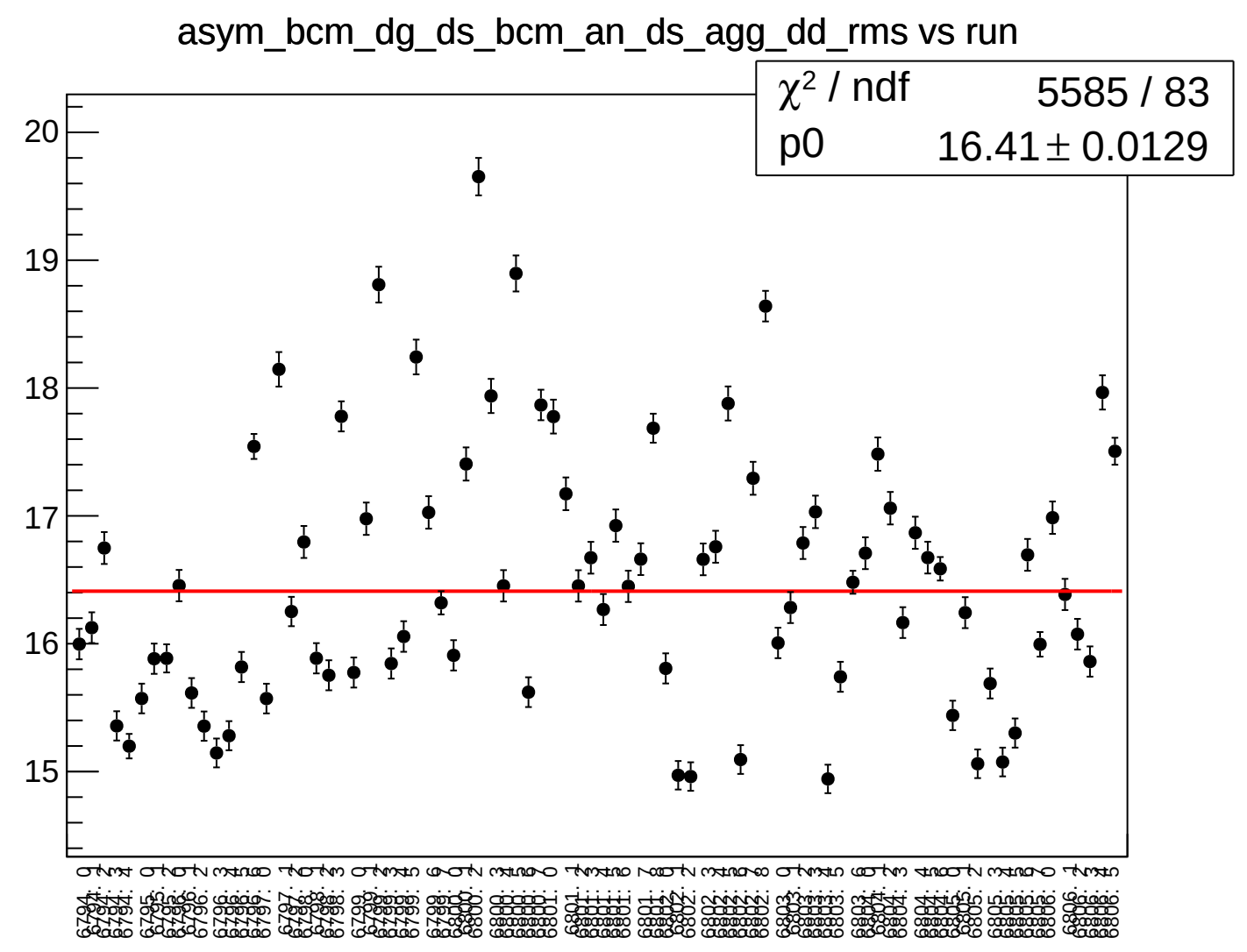

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 16.94 / 83
p0 −259.6 ± 289.8
pull
Entries 84
Mean −66.38
Std Dev 103.9

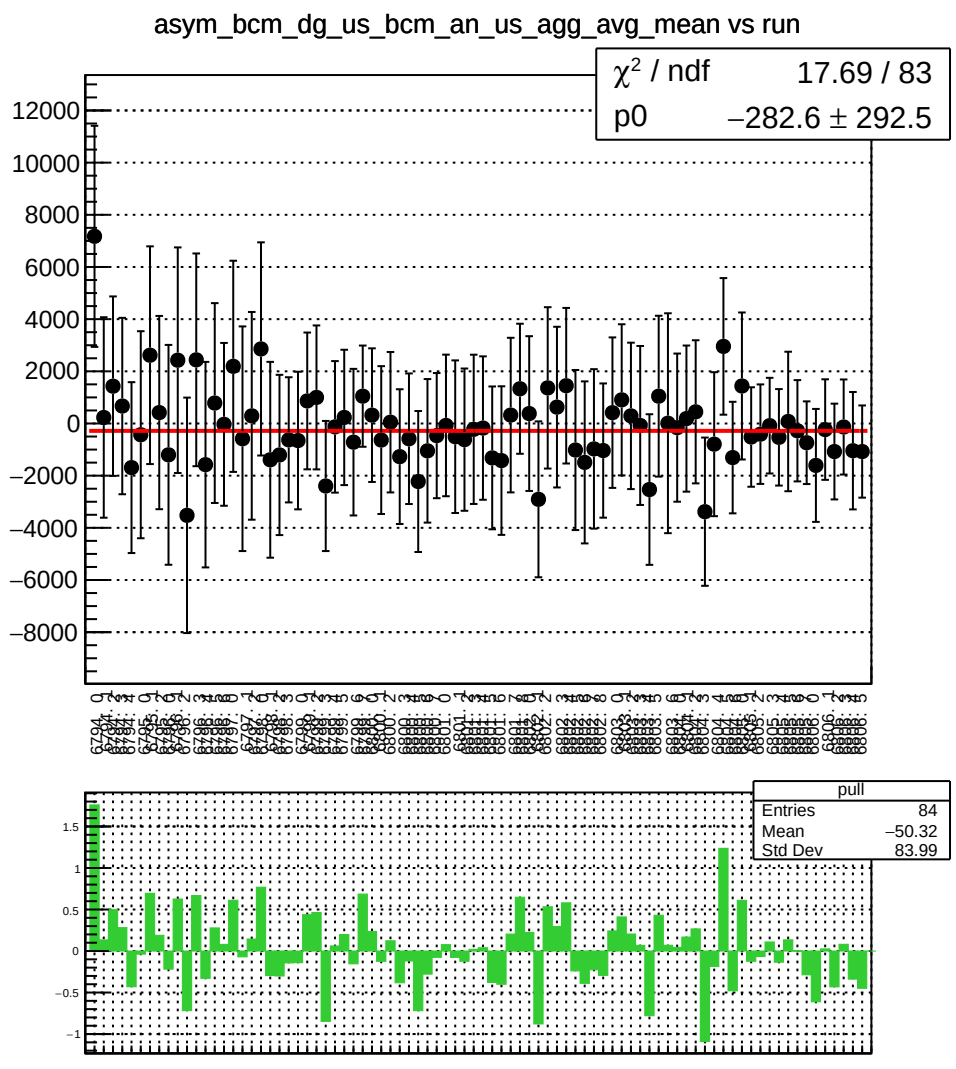

pull1D
Entries 84
Mean 0.02698
Std Dev 0.4482

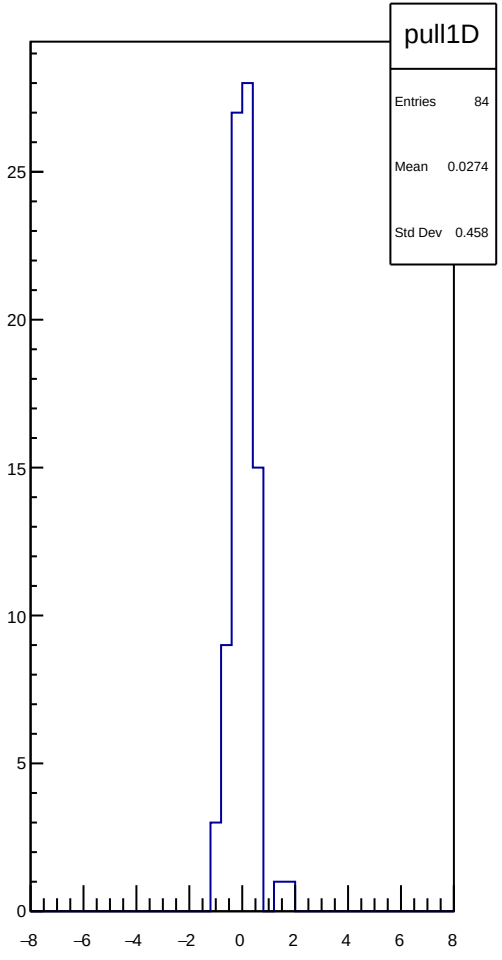

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9.207e+04 / 83
p0 253.6 ± 0.2049
550
500
450
400
350
300
250
200
150

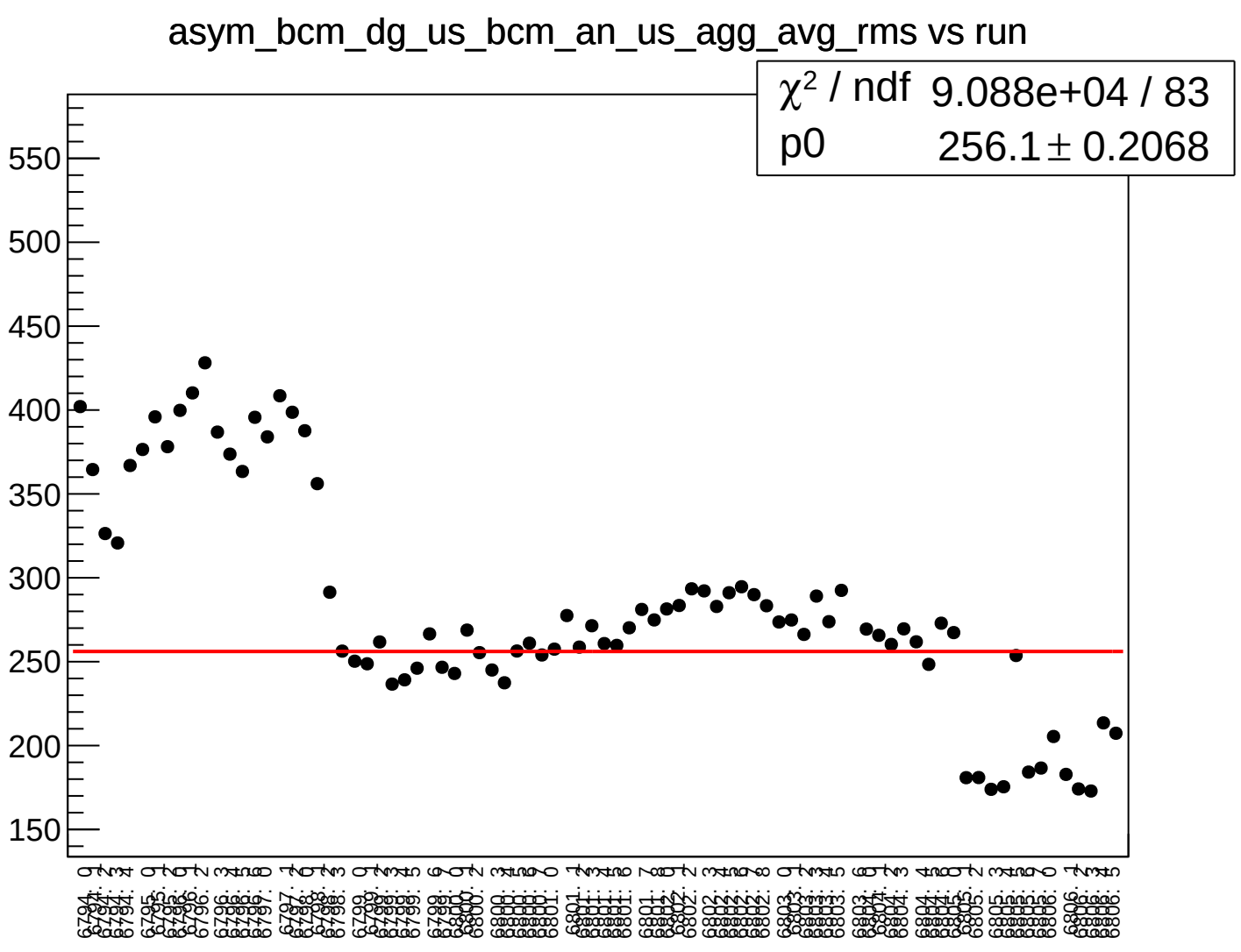

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 79.3 / 83
p0 −16.92 ± 18.24
pull
Entries 84
Mean 325.3
Std Dev 319.1

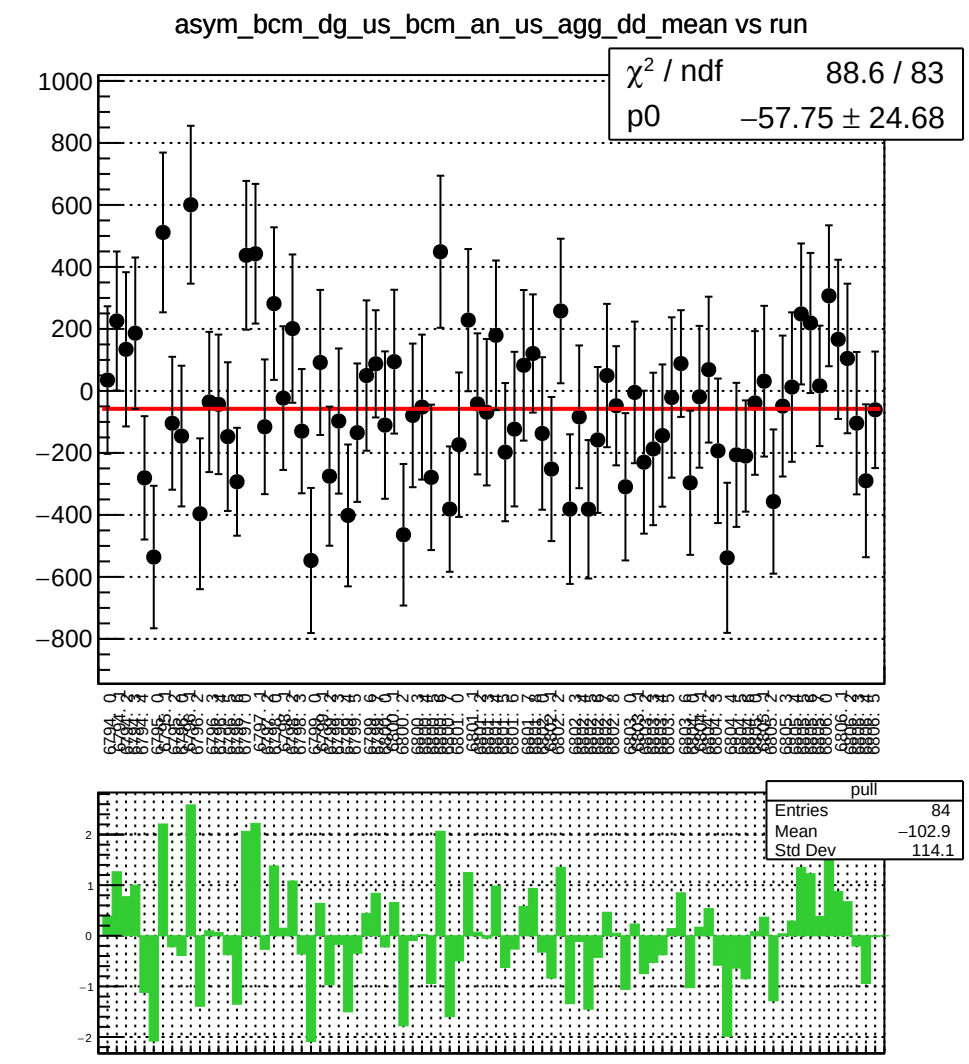

pull1D
Entries 84
Mean 0.004994
Std Dev 0.9716

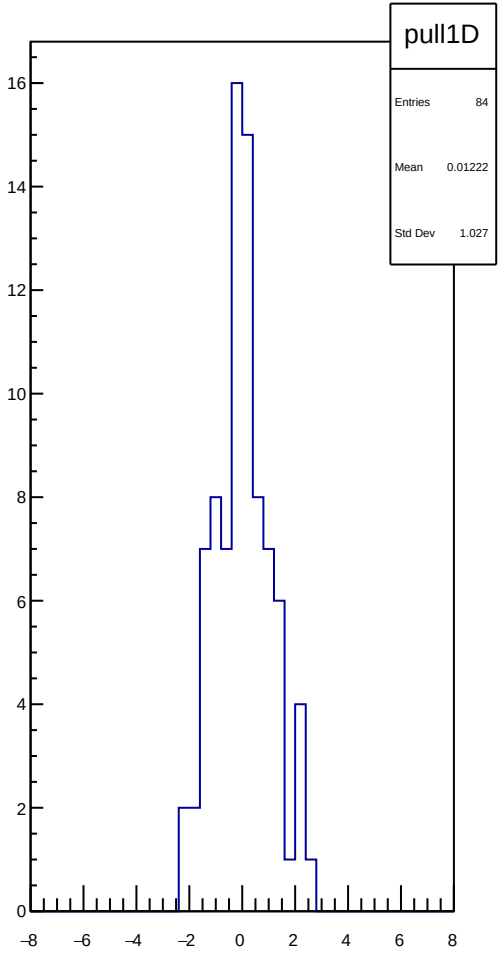

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5585 / 83
p0 16.41 ± 0.0129
20
19
18
17
16
15

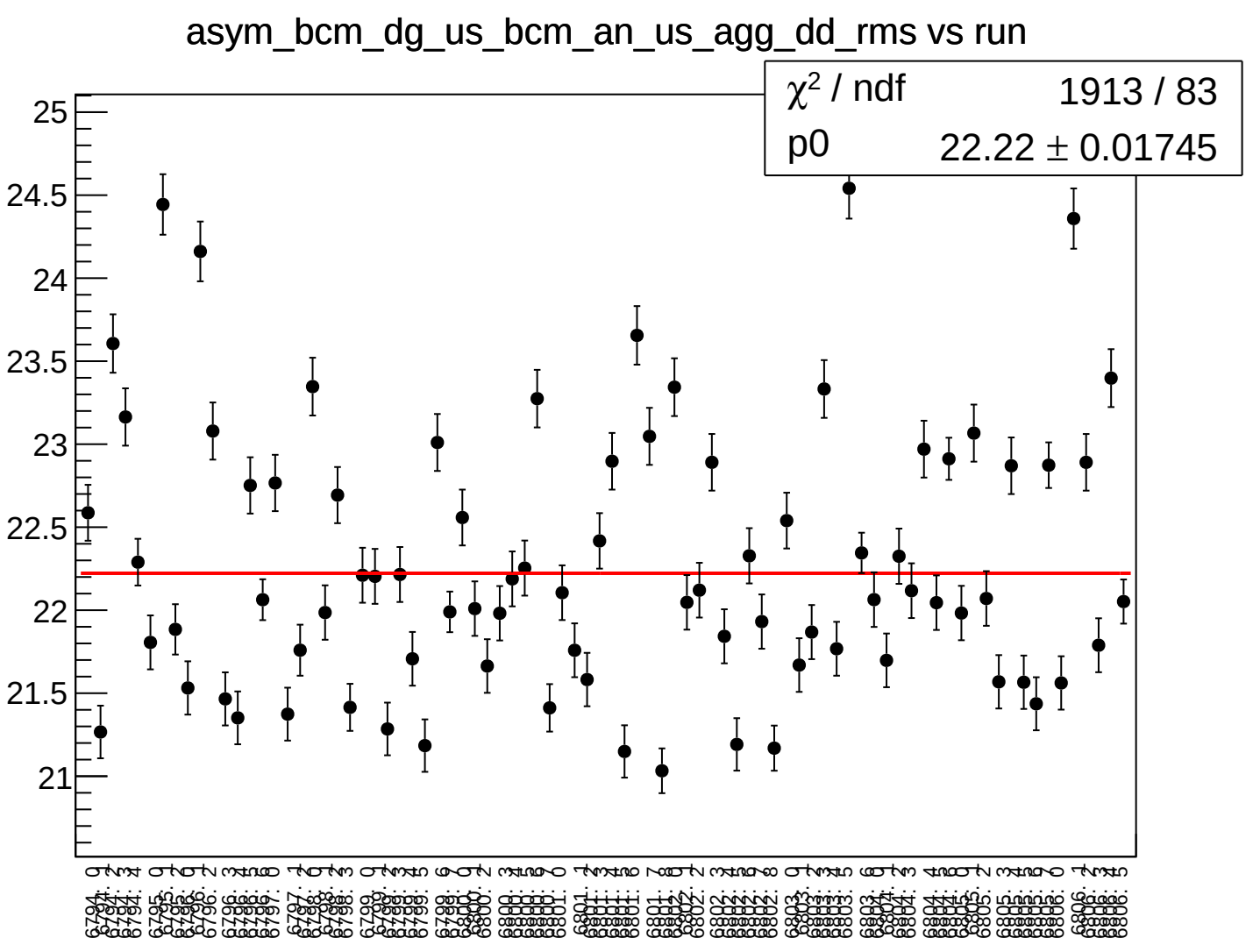

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.69 / 83
p0 −282.6 ± 292.5
pull
Entries 84
Mean −50.32
Std Dev 83.99

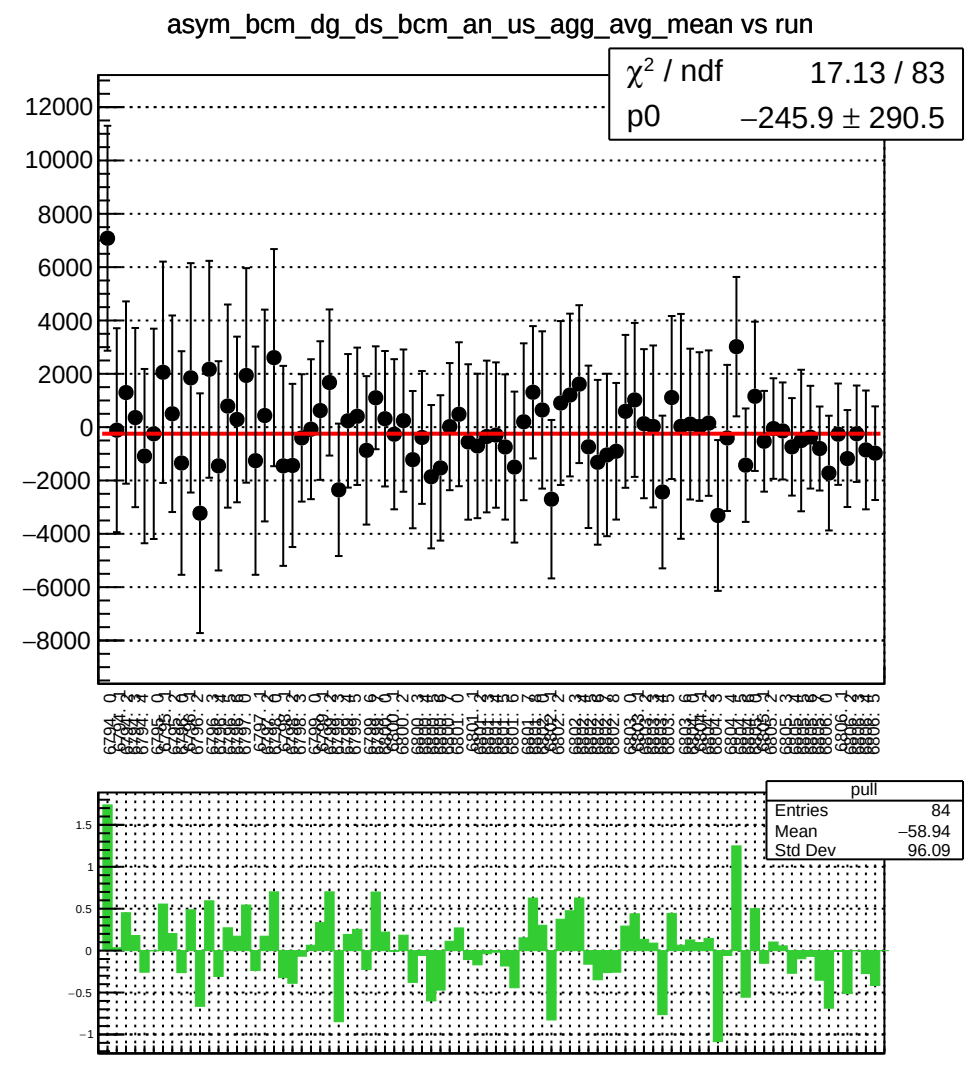

pull1D
Entries 84
Mean 0.0274
Std Dev 0.458

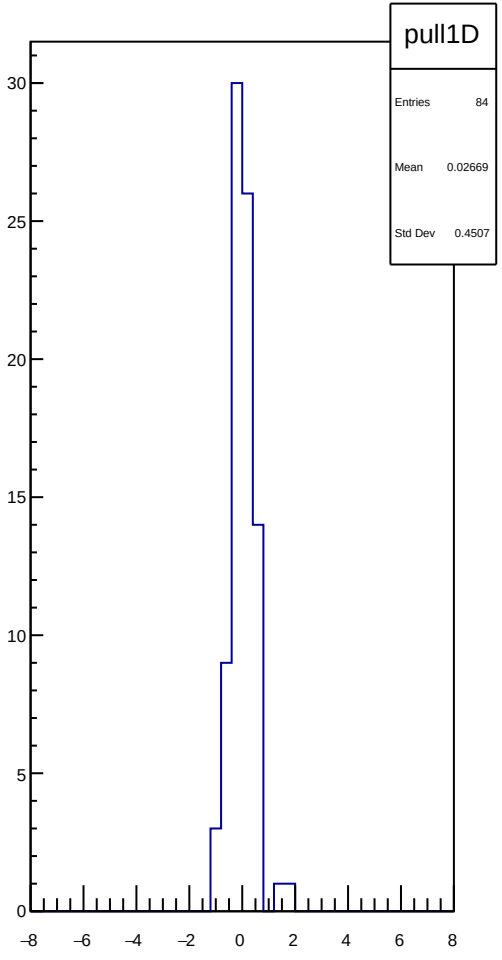

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 9.088e+04 / 83
p0 256.1 ± 0.2068
550
500
450
400
350
300
250
200
150

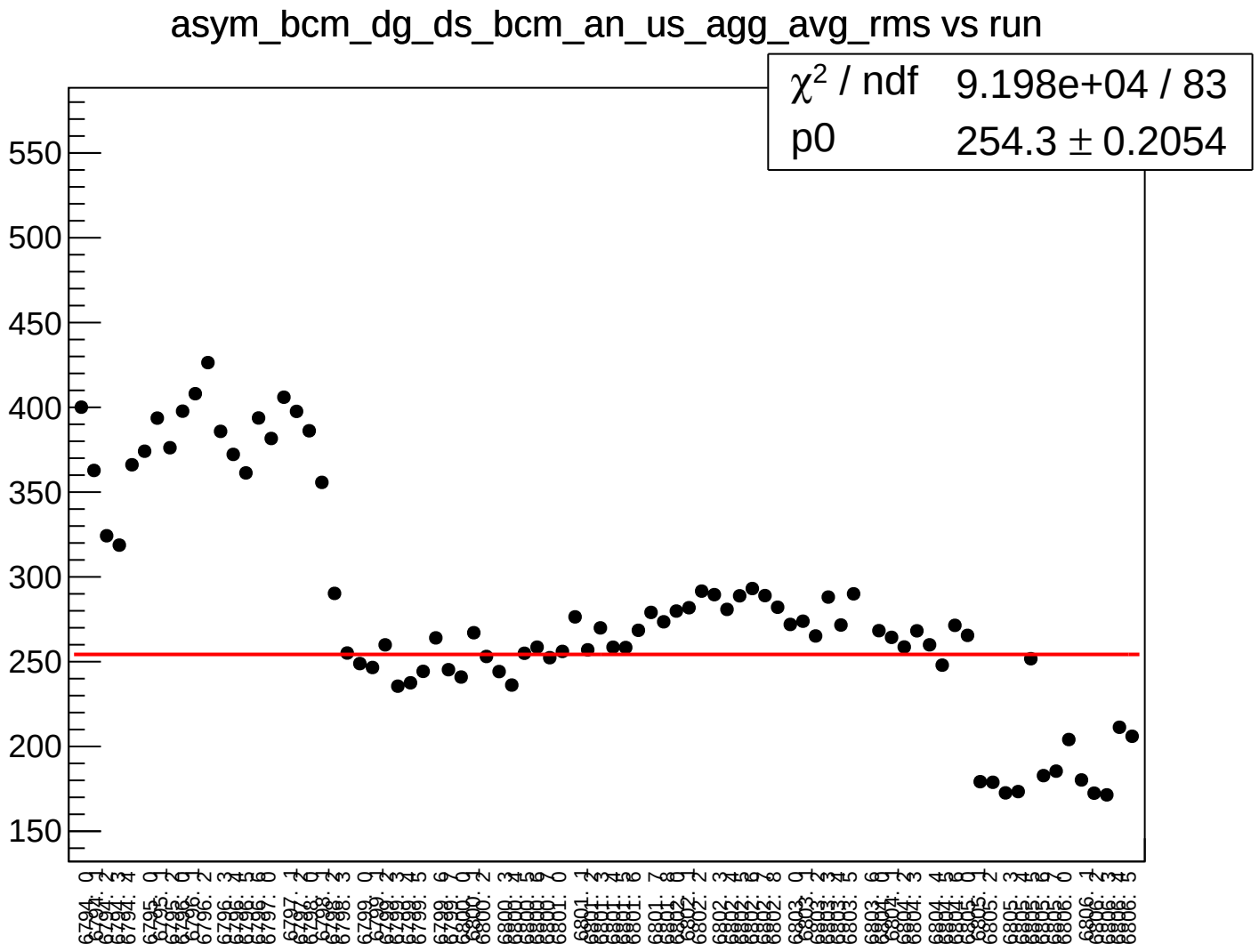

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 88.6 / 83
p0 −57.75 ± 24.68
pull
Entries 84
Mean −102.9
Std Dev 114.1

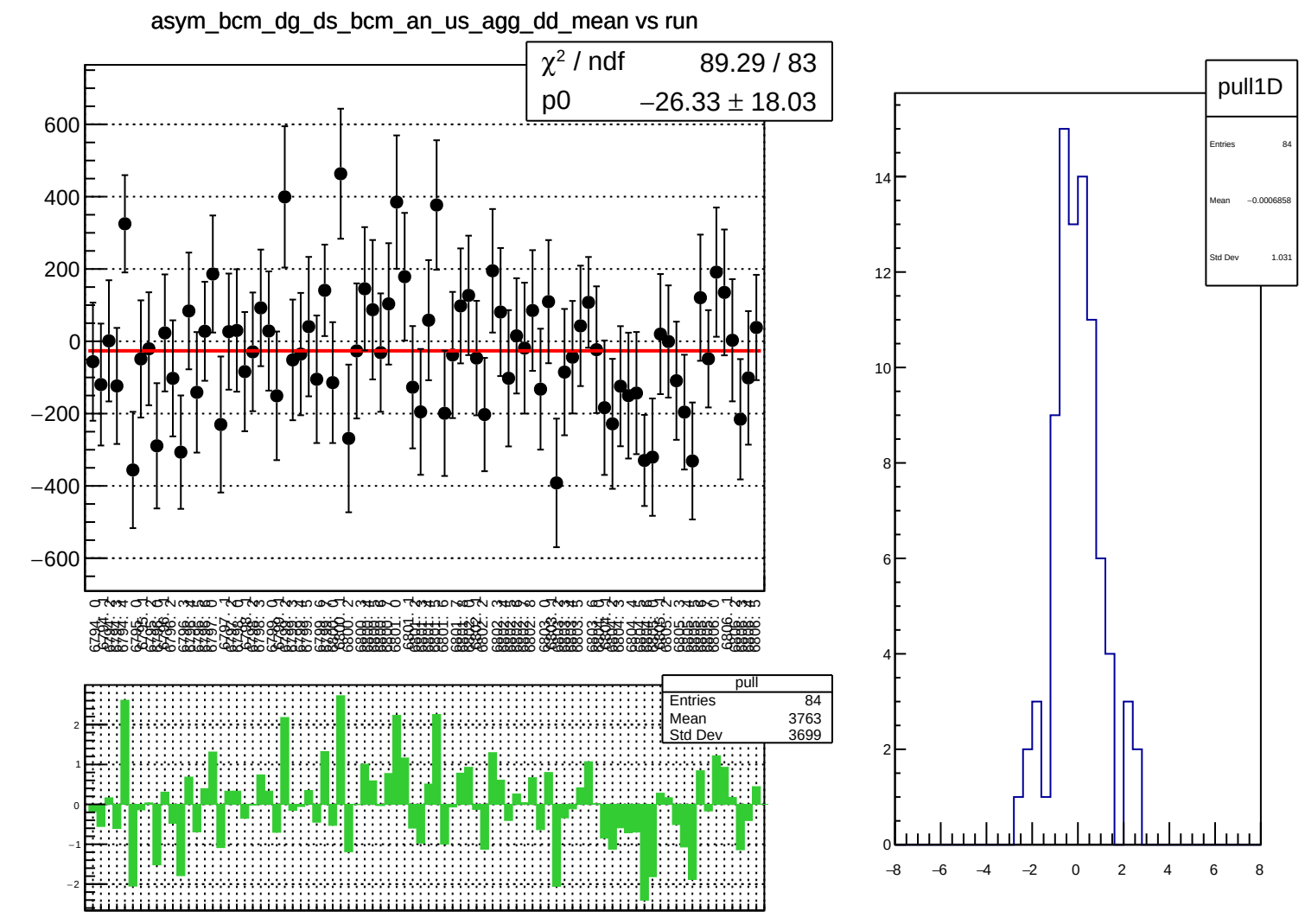

pull1D
Entries 84
Mean 0.01222
Std Dev 1.027

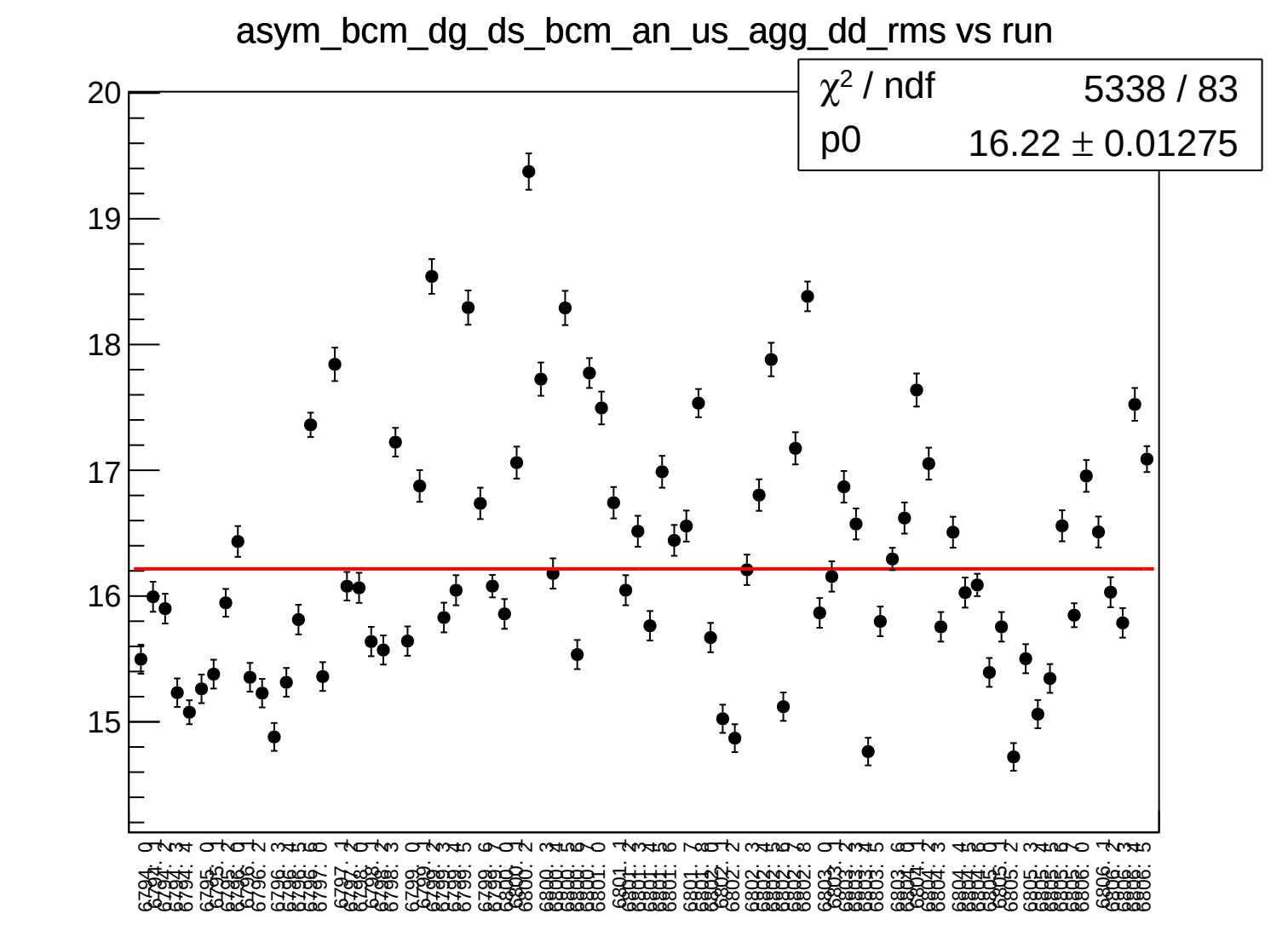

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1913 / 83
p0 22.22 ± 0.01745
25
24.5
24
23.5
23
22.5
22
21.5
21

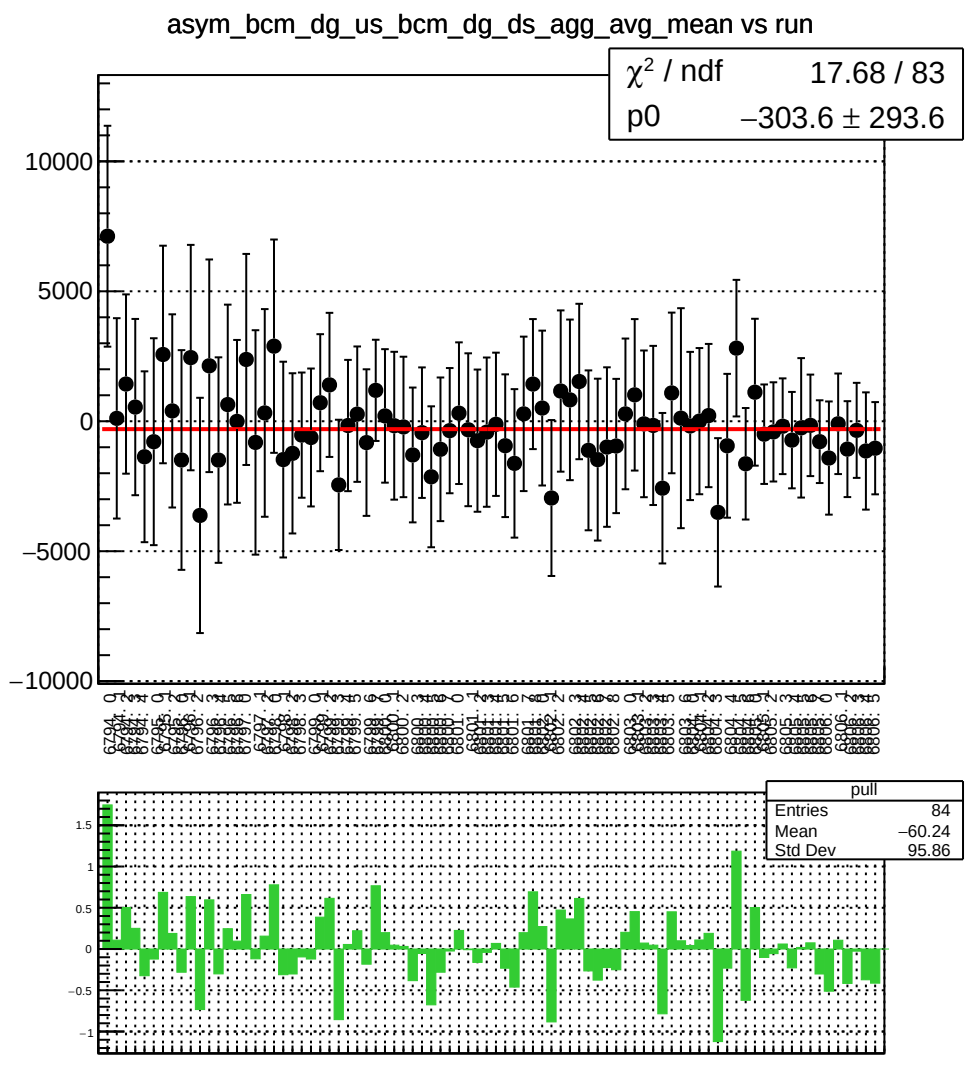

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.13 / 83
p0 −245.9 ± 290.5
pull
Entries 84
Mean −58.94
Std Dev 96.09

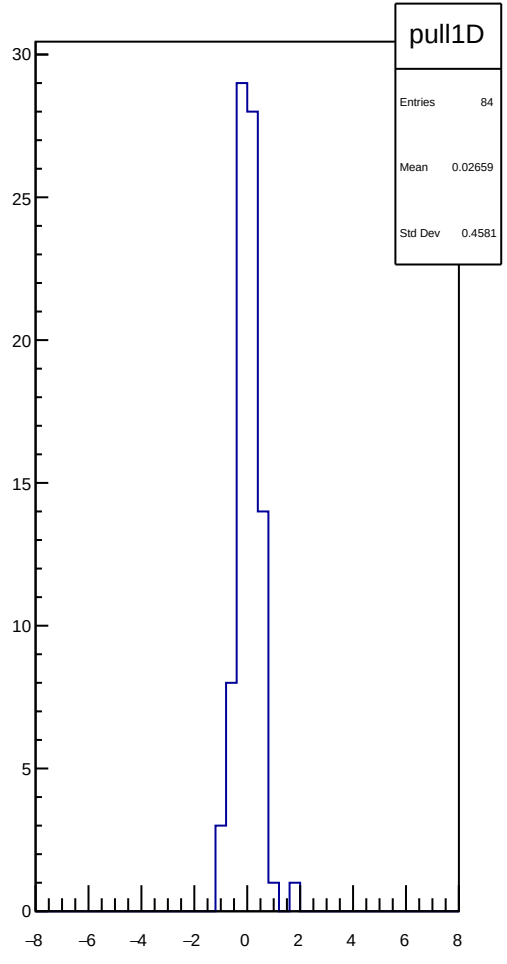

pull1D
Entries 84
Mean 0.02669
Std Dev 0.4507

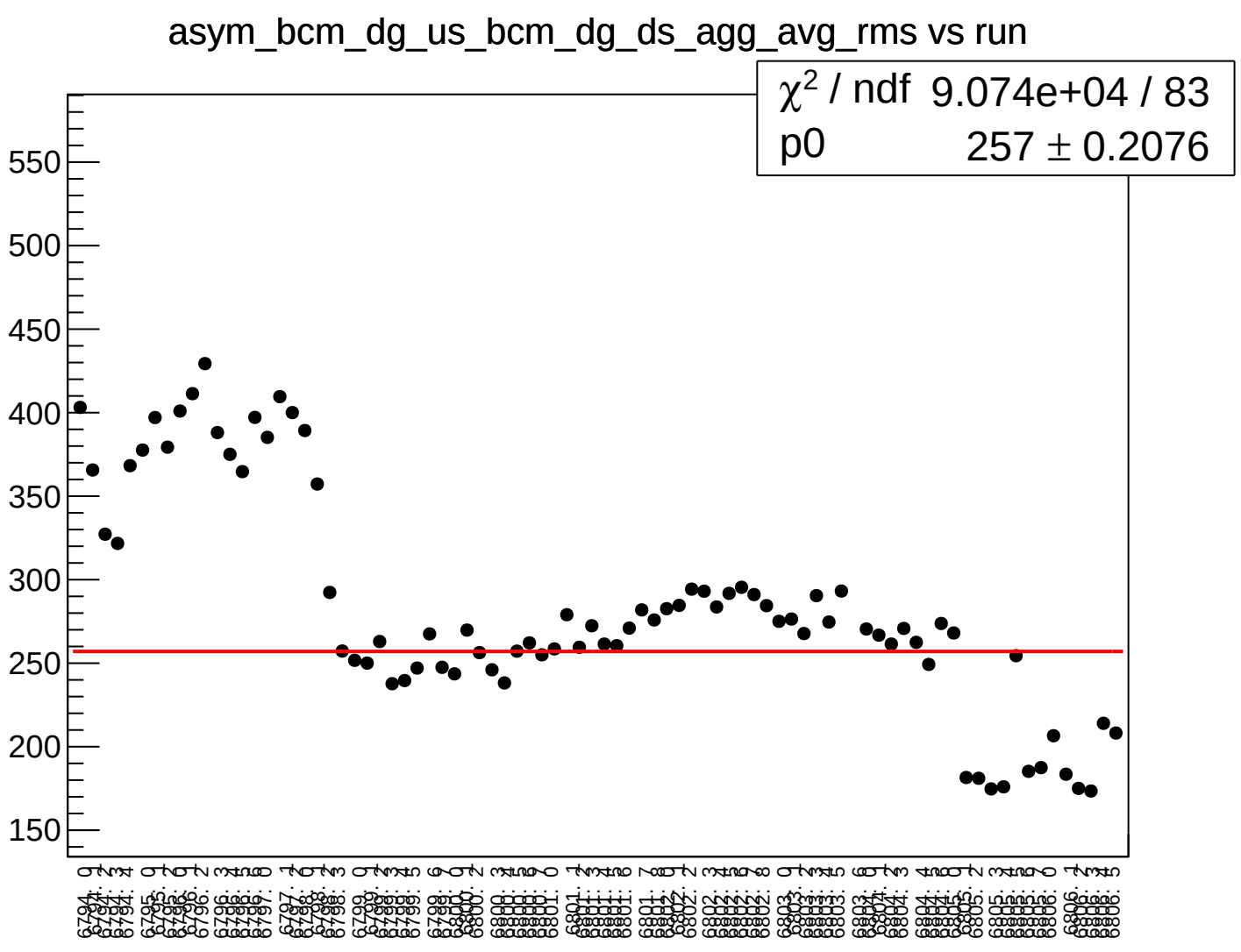

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 9.198e+04 / 83
p0 254.3 ± 0.2054
550
500
450
400
350
300
250
200
150

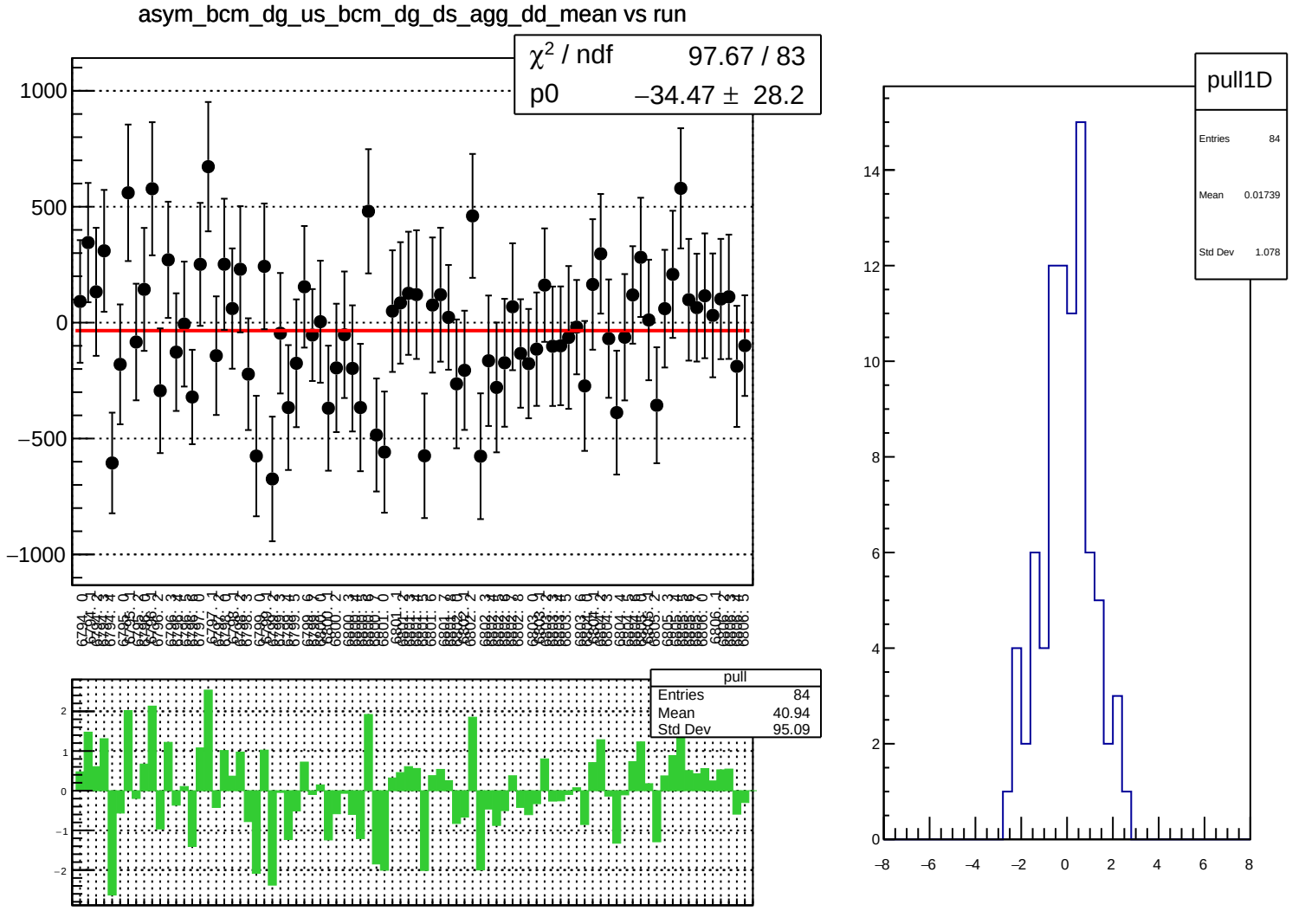

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 89.29 / 83
p0 −26.33 ± 18.03
pull
Entries 84
Mean 3763
Std Dev 3699
pull1D
Entries 84
Mean −0.0006858
Std Dev 1.031

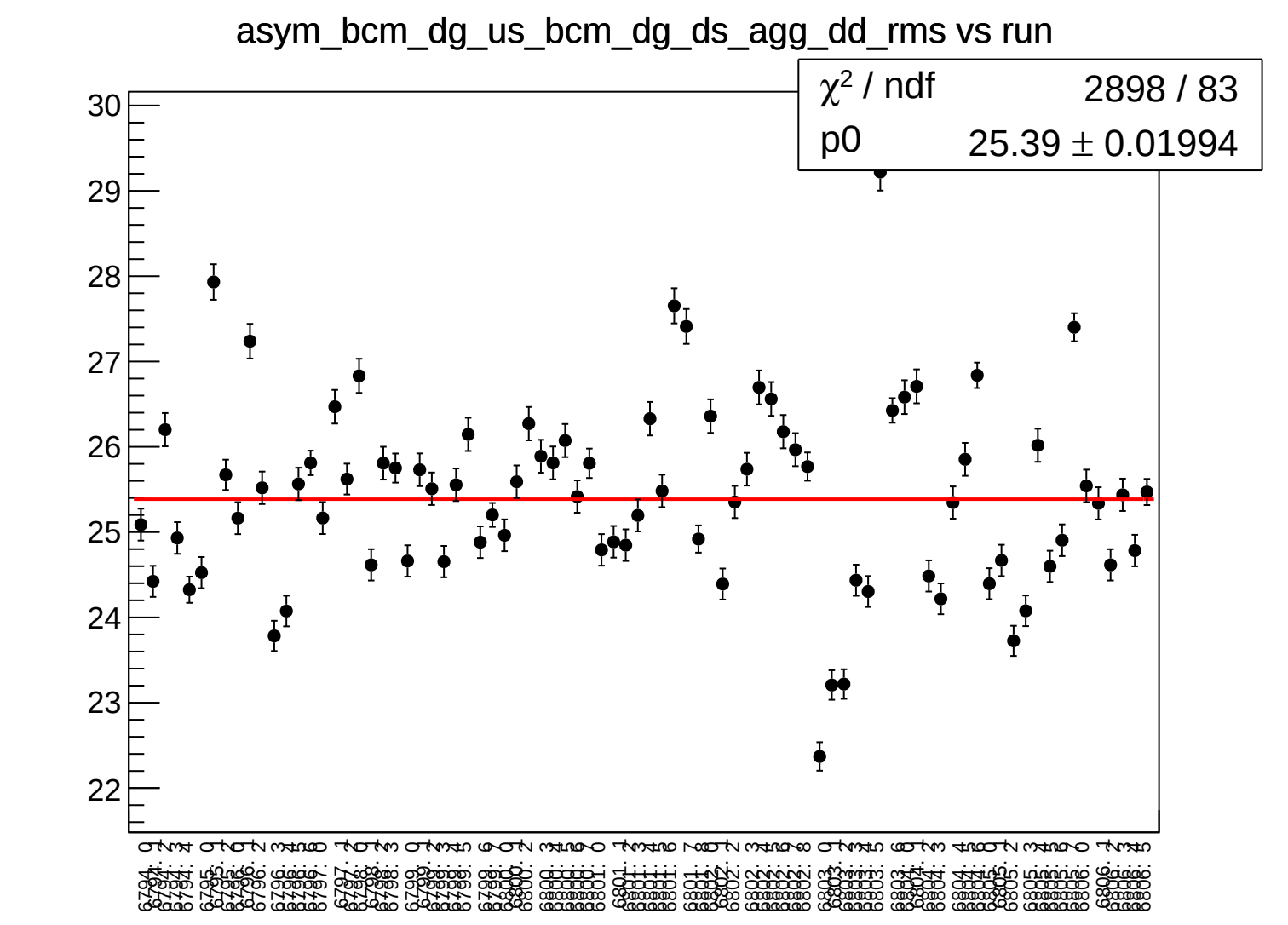

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 5338 / 83
p0 16.22 ± 0.01275
20
19
18
17
16
15

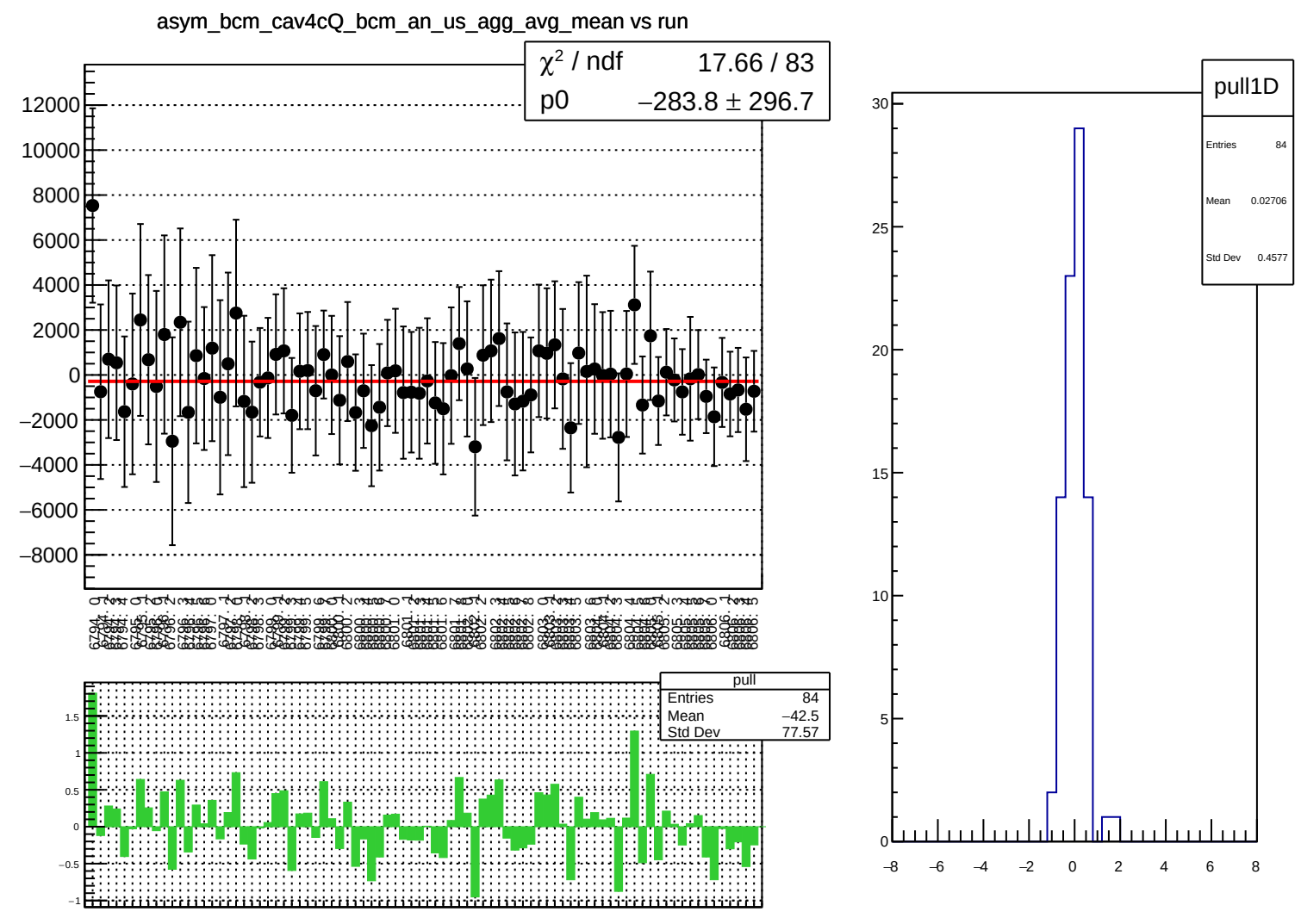

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 17.68 / 83
p0 −303.6 ± 293.6
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −60.24
Std Dev 95.86
1.5
1
0.5
0
−0.5
−1

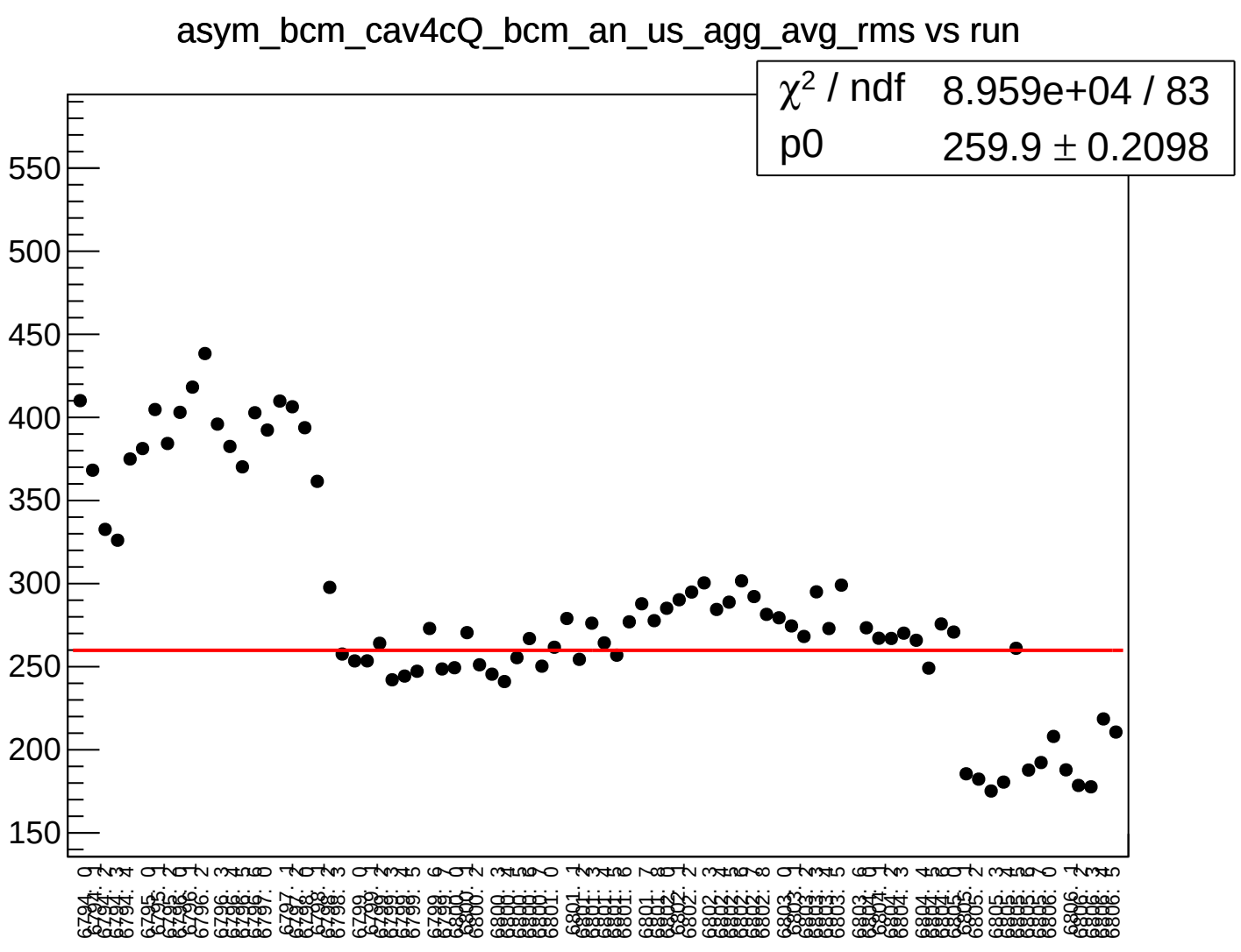

pull1D
Entries 84
Mean 0.02659
Std Dev 0.4581
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

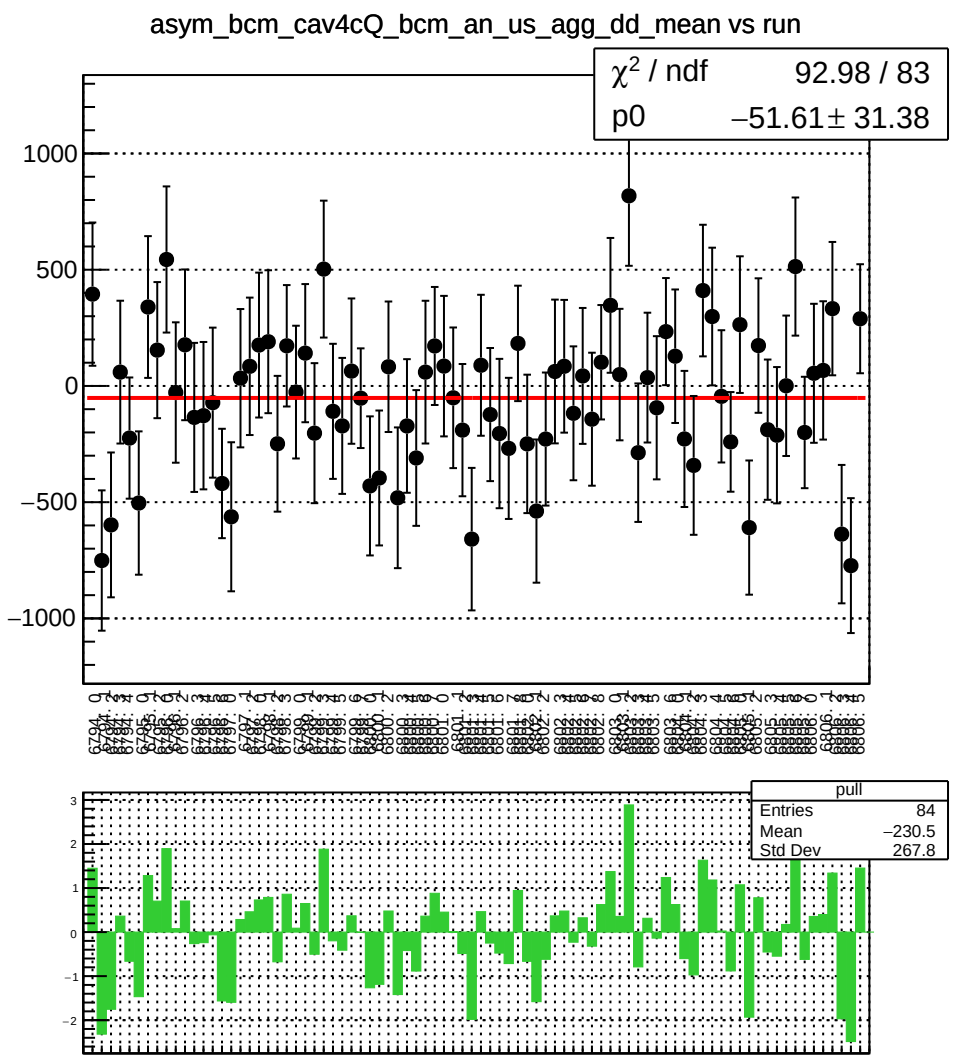

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 9.074e+04 / 83
p0 257 ± 0.2076
550
500
450
400
350
300
250
200
150

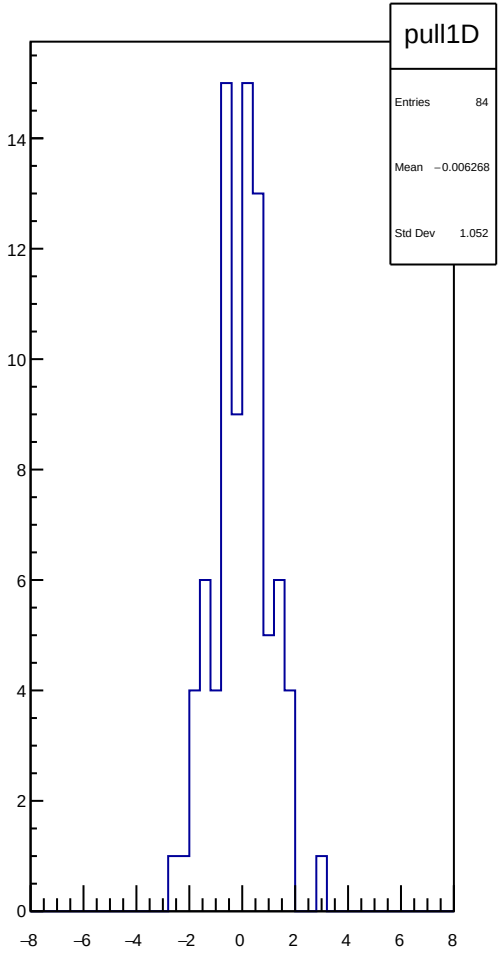

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 97.67 / 83
p0 −34.47 ± 28.2
1000
500
0
−500
−1000
pull
Entries 84
Mean 40.94
Std Dev 95.09
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.01739
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

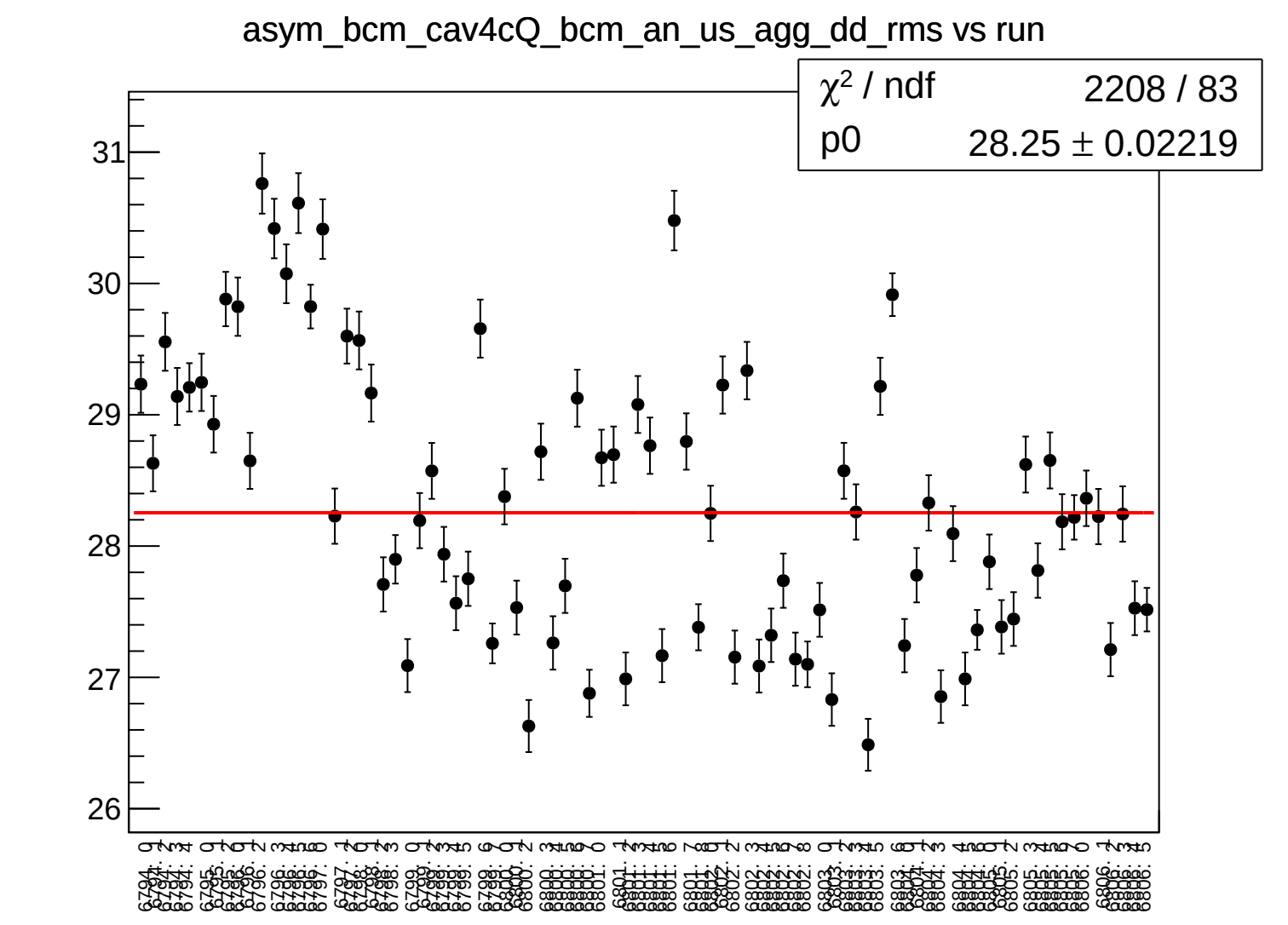

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2898 / 83
p0 25.39 ± 0.01994
30
29
28
27
26
25
24
23
22

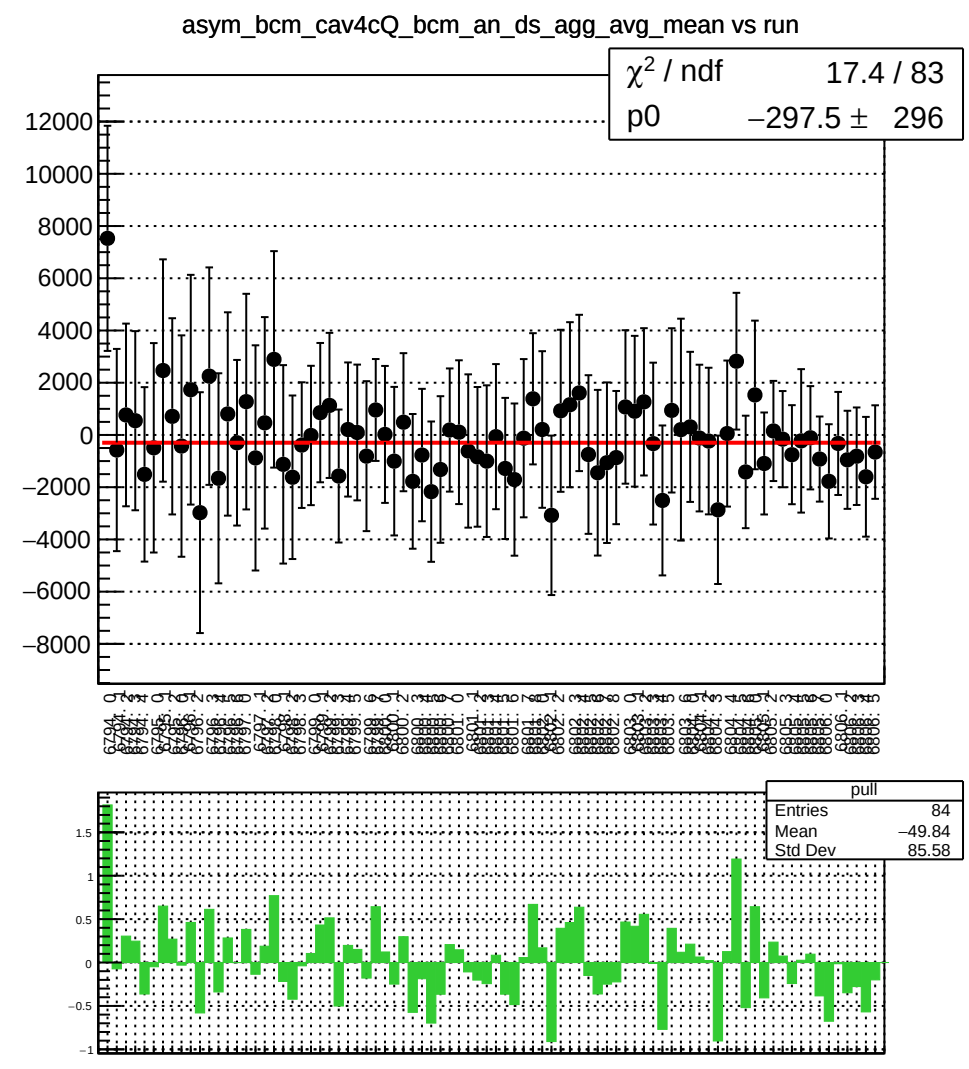

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.66 / 83
p0 −283.8 ± 296.7
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean −42.5
Std Dev 77.57
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean 0.02706
Std Dev 0.4577
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

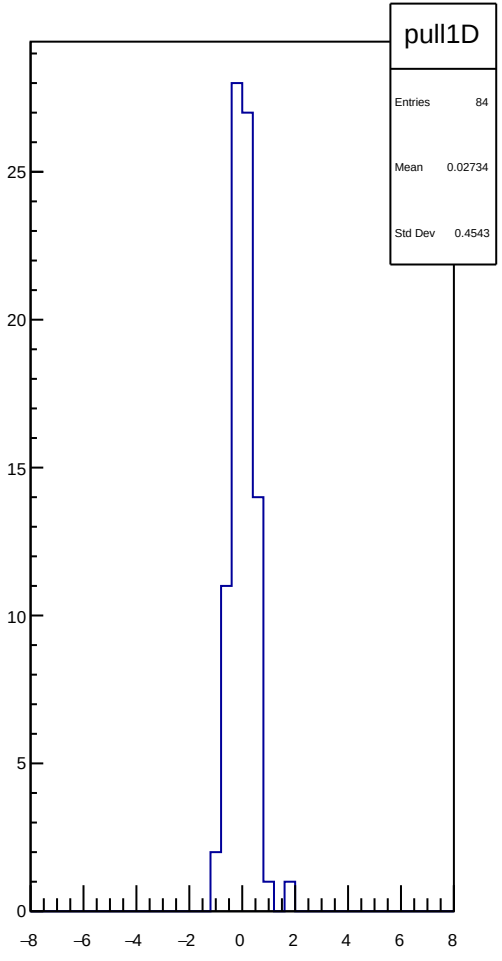

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 8.959e+04 / 83
p0 259.9 ± 0.2098
550
500
450
400
350
300
250
200
150

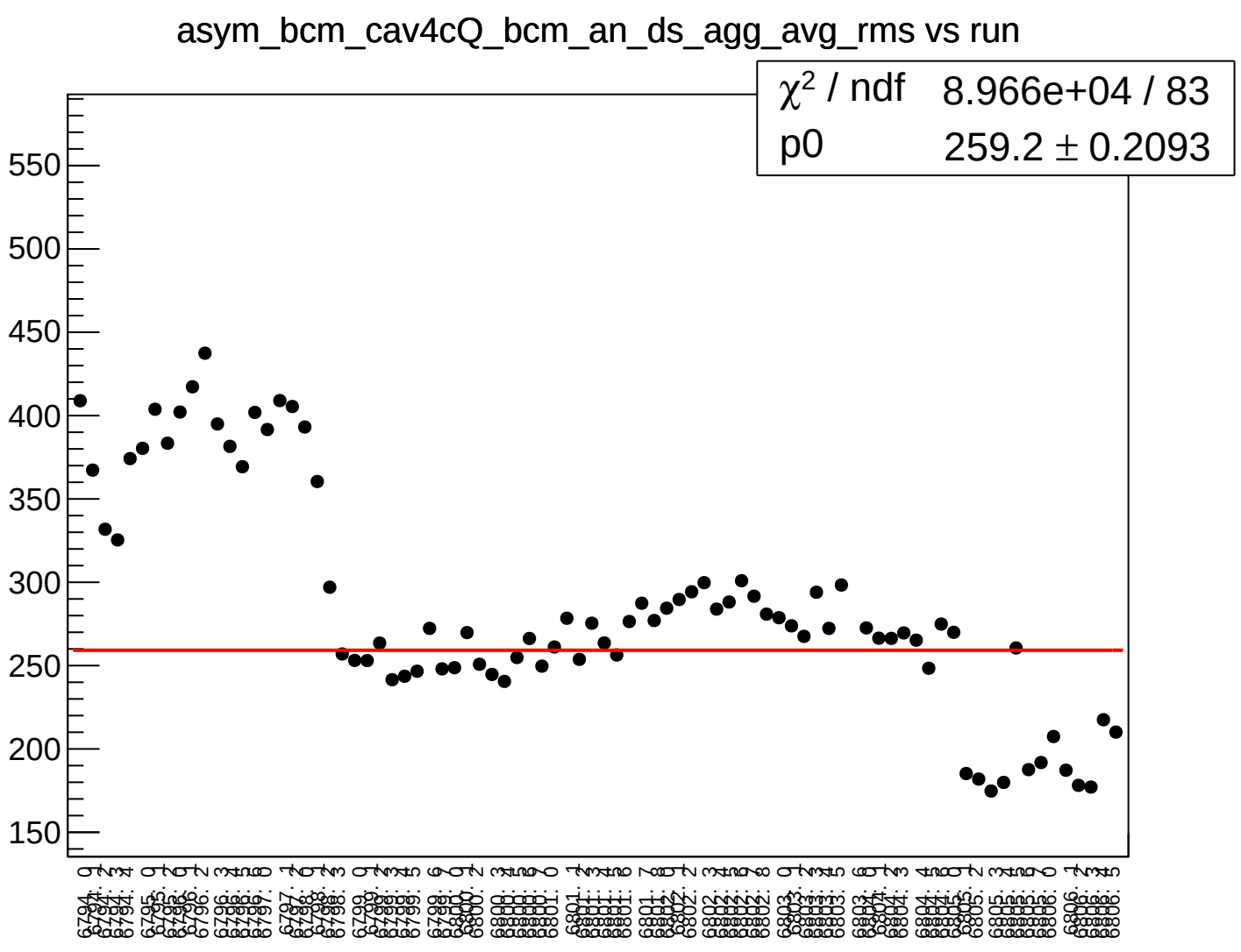

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 92.98 / 83
p0 −51.61 ± 31.38
1000
500
0
−500
−1000
pull
Entries 84
Mean −230.5
Std Dev 267.8
3
2
1
0
−1
−2

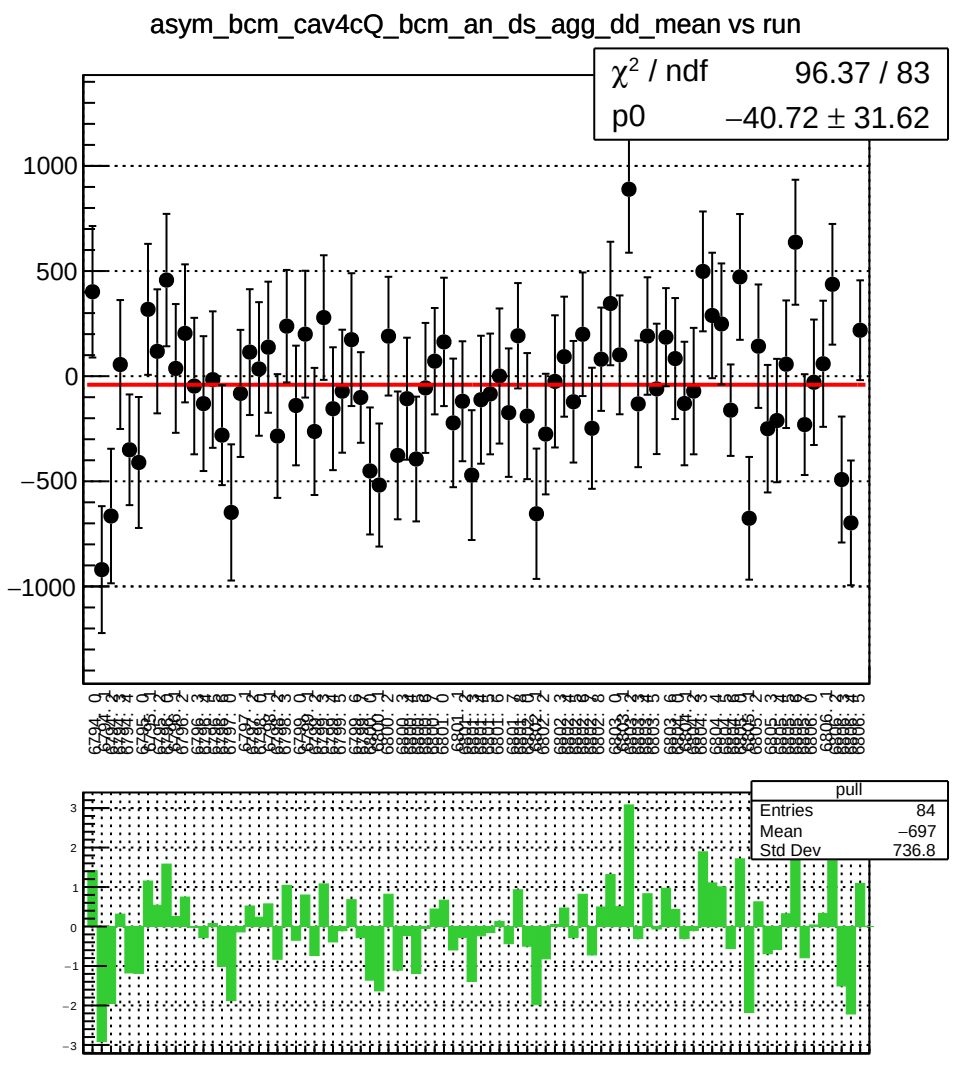

pull1D
Entries 84
Mean −0.006268
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

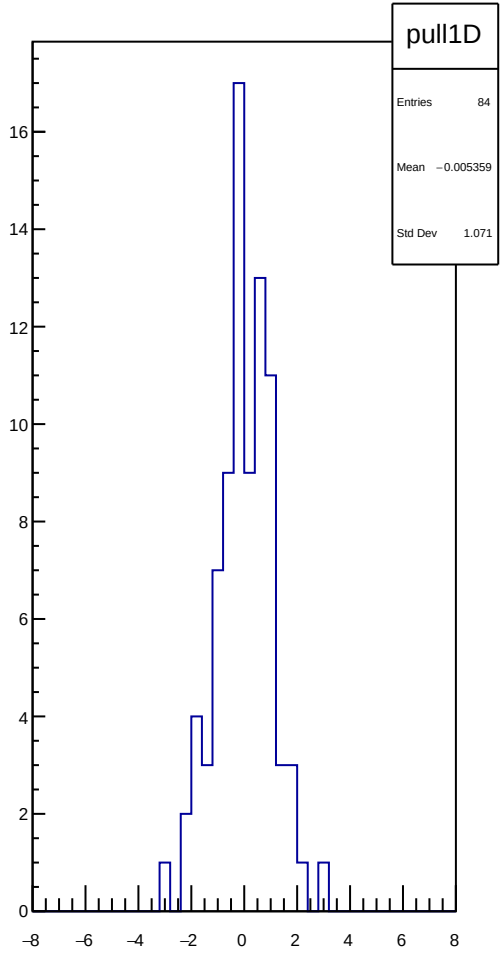

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2208 / 83
p0 28.25 ± 0.02219
31
30
29
28
27
26

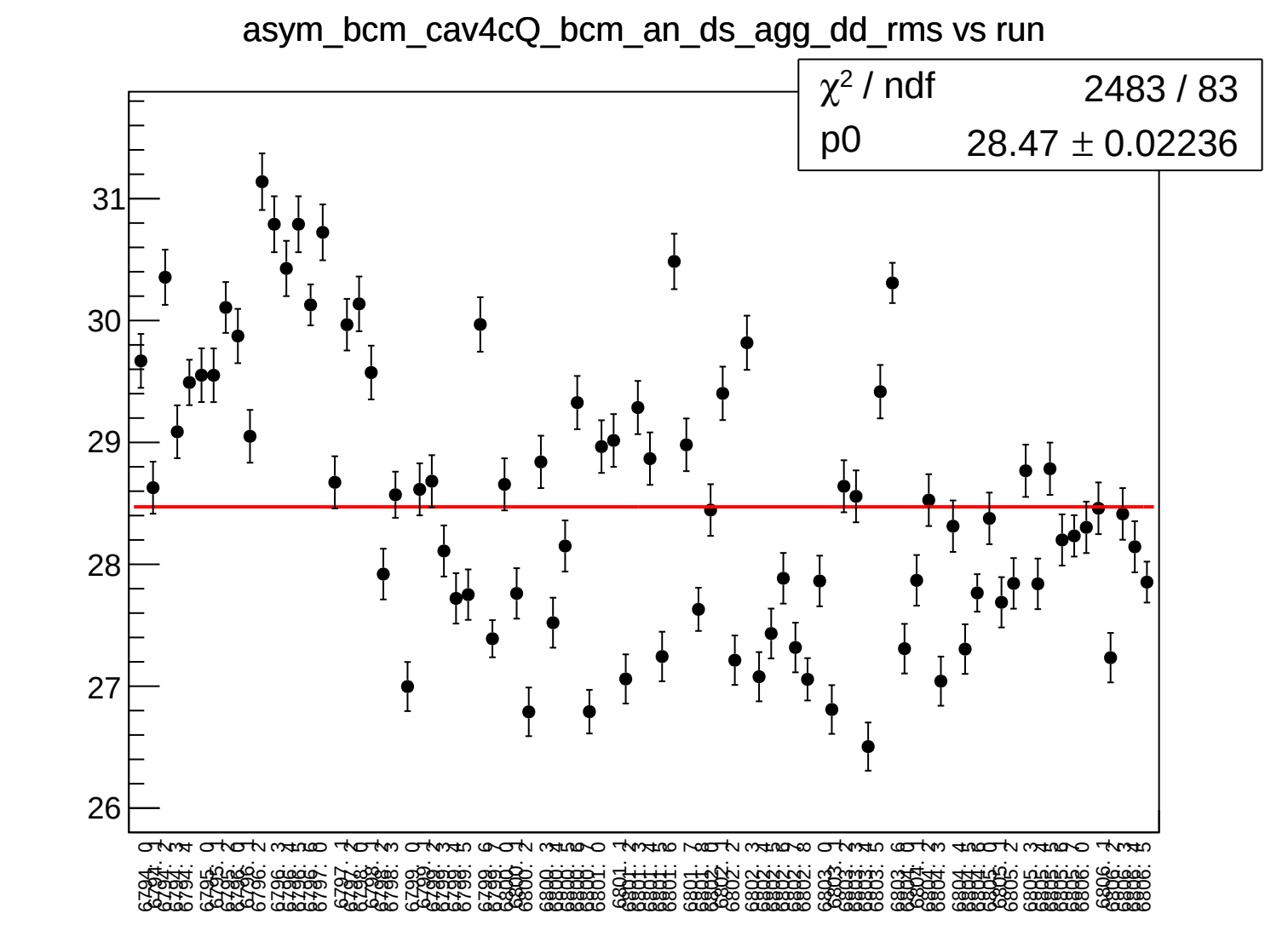

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.4 / 83
p0 −297.5 ± 296
pull
Entries 84
Mean −49.84
Std Dev 85.58

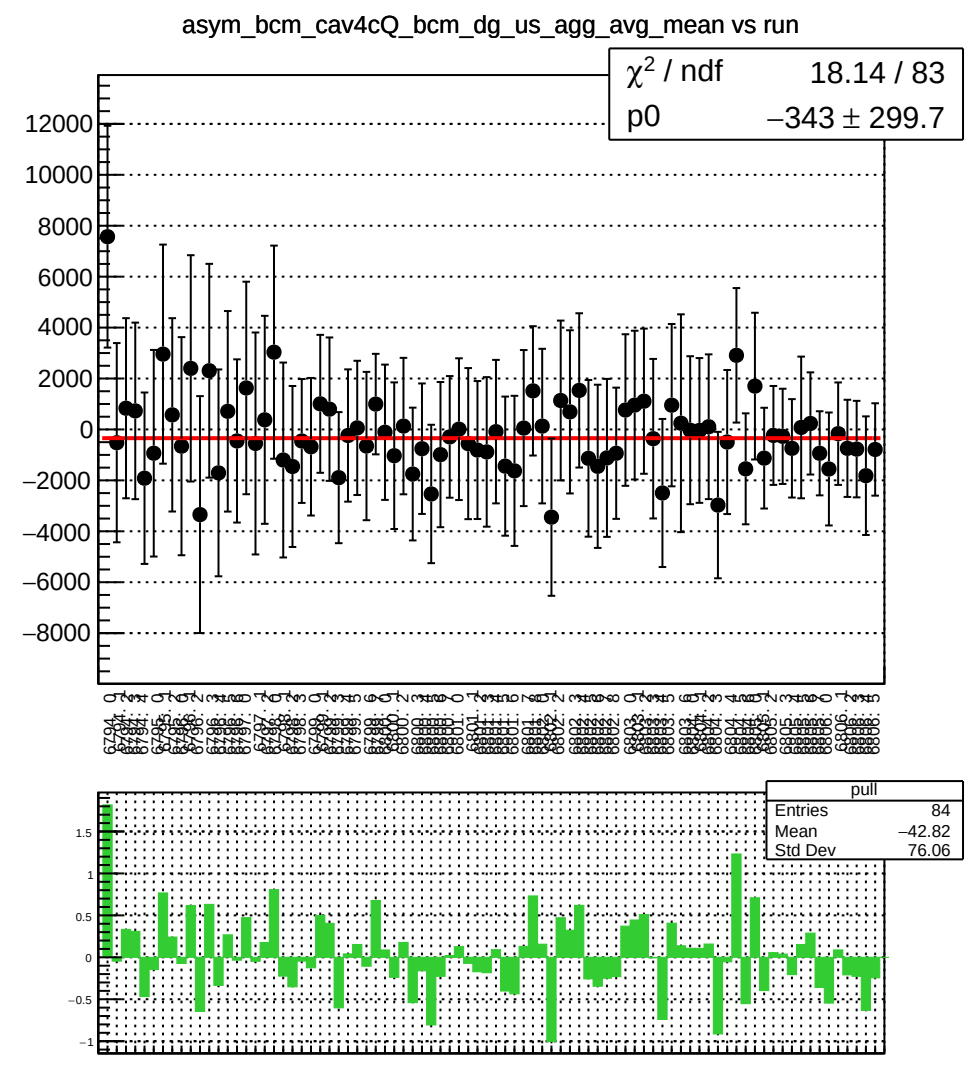

pull1D
Entries 84
Mean 0.02734
Std Dev 0.4543

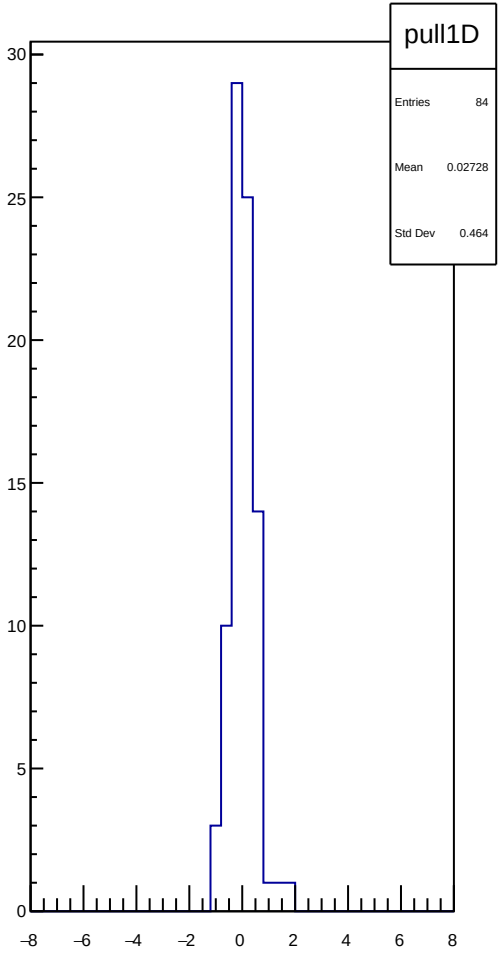

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8.966e+04 / 83
p0 259.2 ± 0.2093
550
500
450
400
350
300
250
200
150

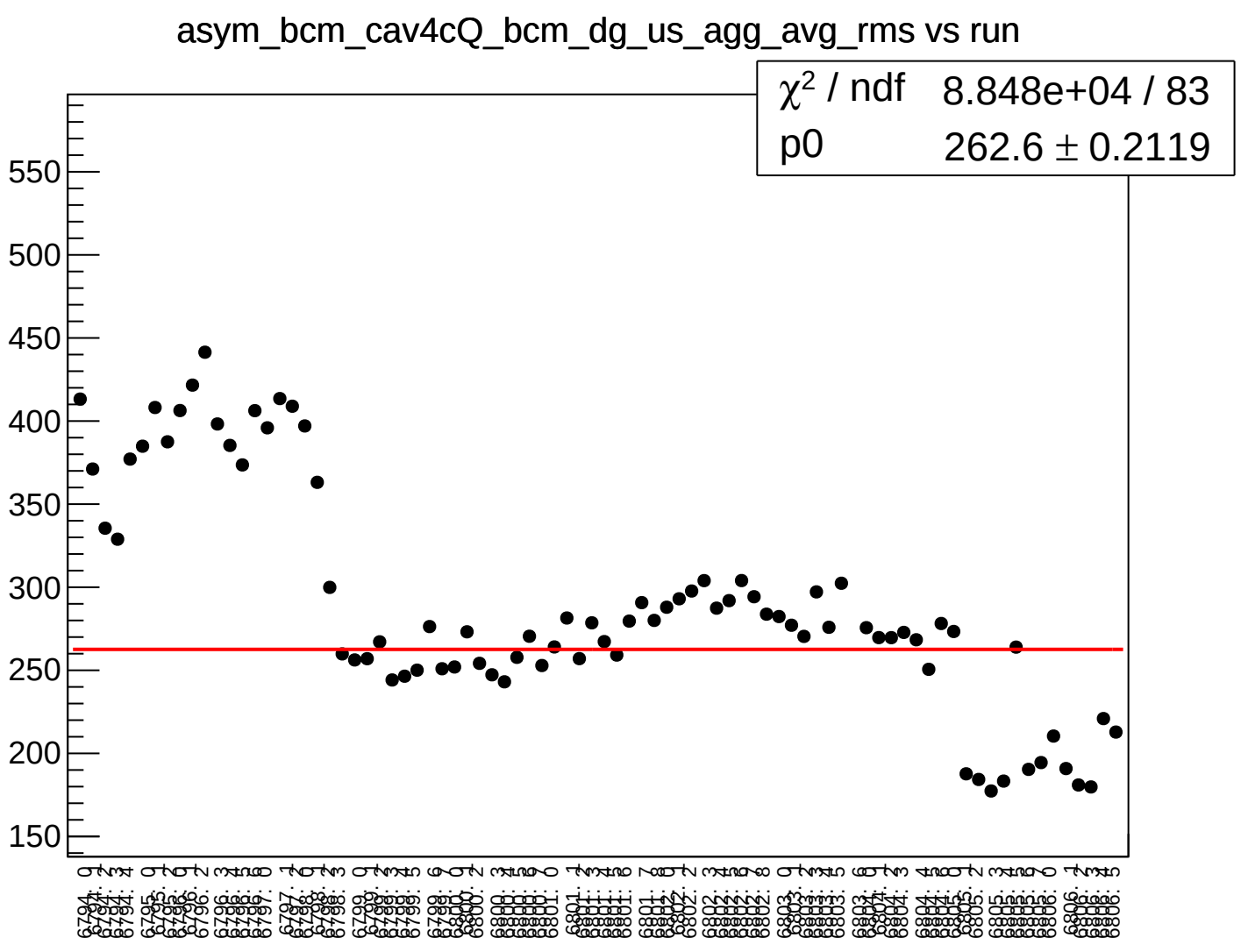

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 96.37 / 83
p0 −40.72 ± 31.62
1000
500
0
−500
−1000
pull
Entries 84
Mean −697
Std Dev 736.8
3
2
1
0
−1
−2
−3

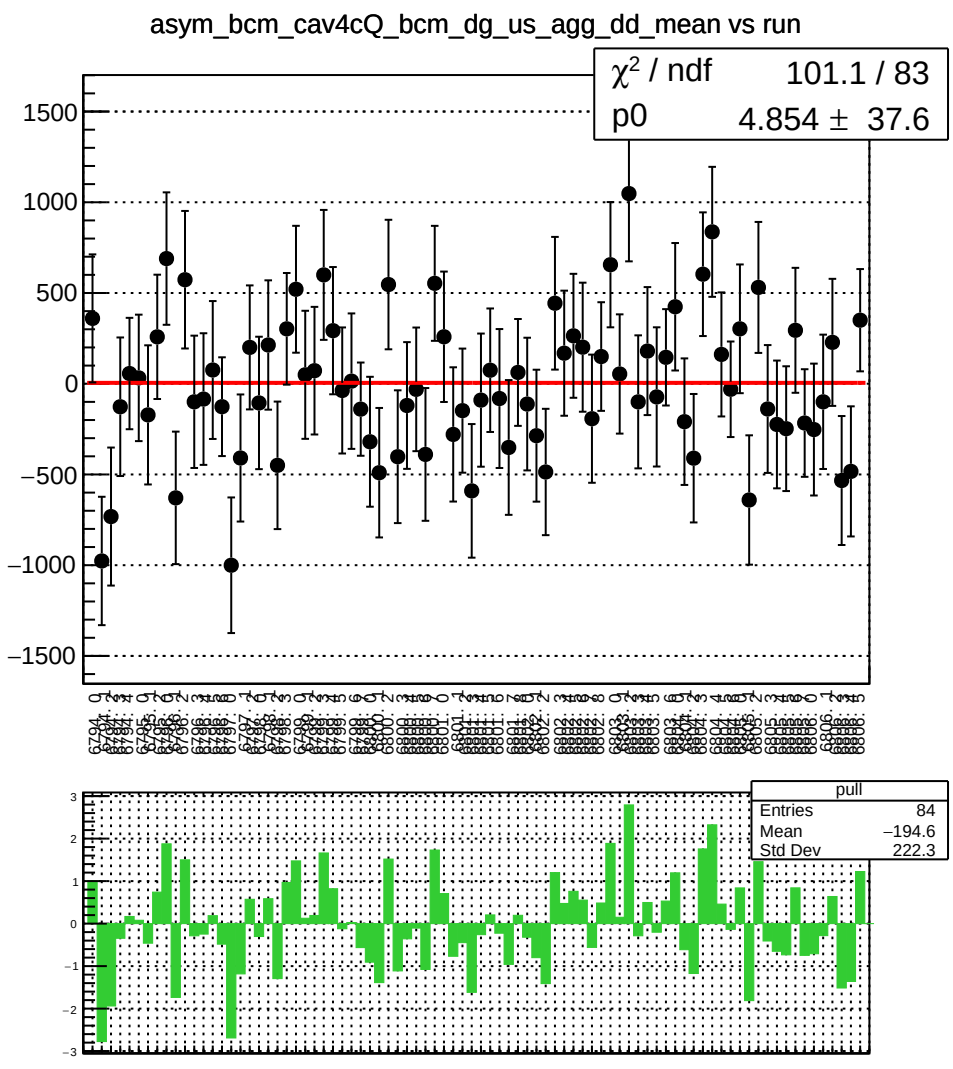

pull1D
Entries 84
Mean −0.005359
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

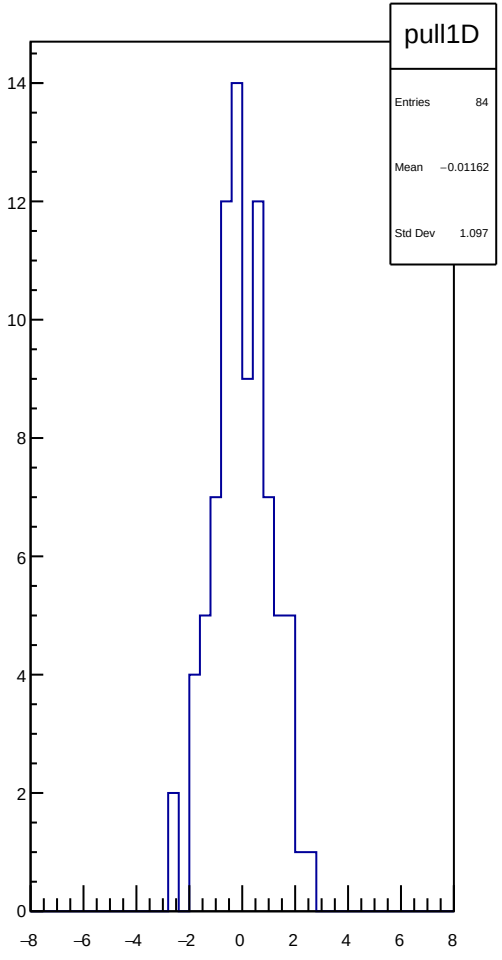

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2483 / 83
p0 28.47 ± 0.02236
31
30
29
28
27
26

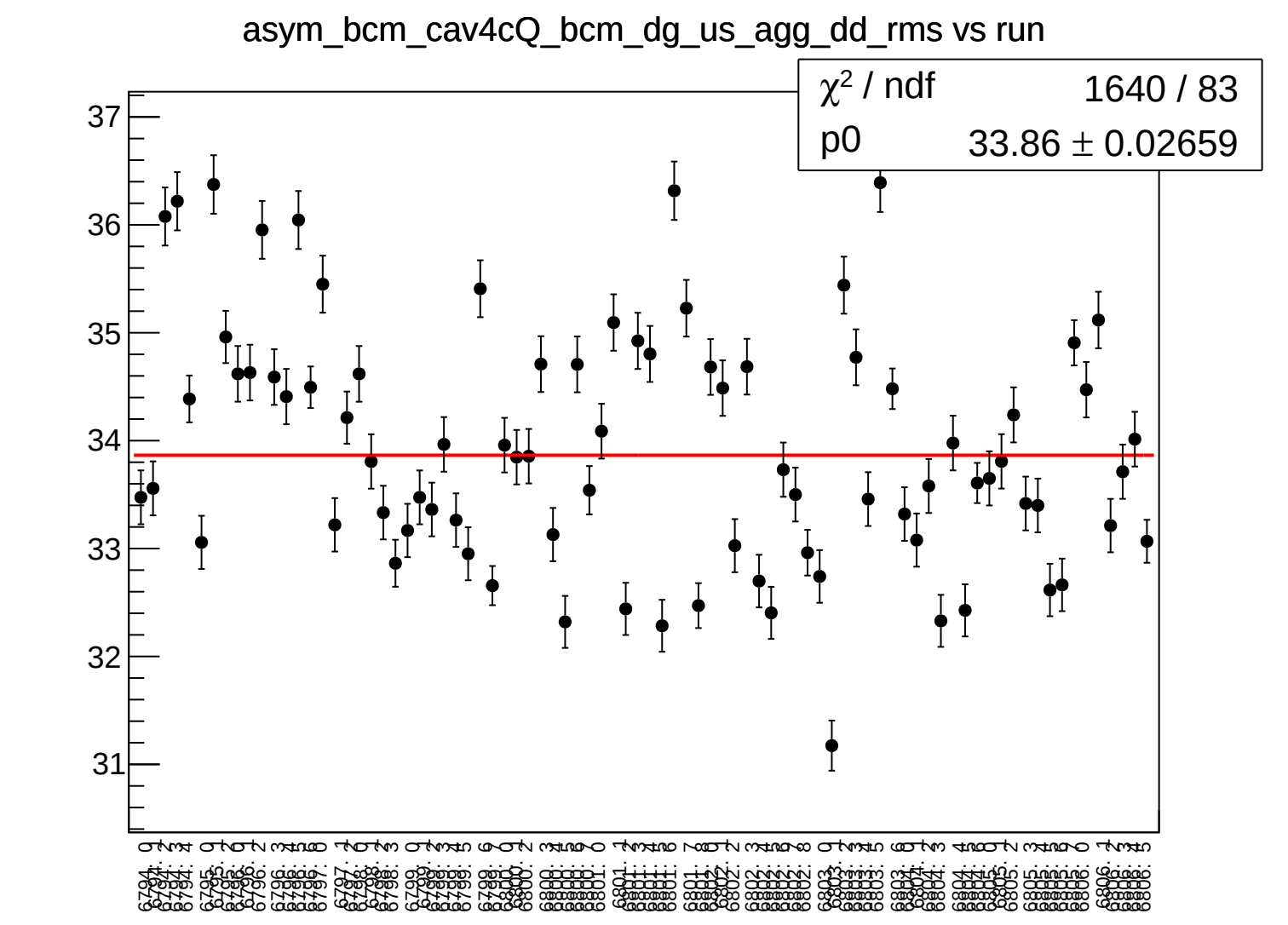

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 18.14 / 83
p0 −343 ± 299.7
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean −42.82
Std Dev 76.06
1.5
1
0.5
0
−0.5
−1

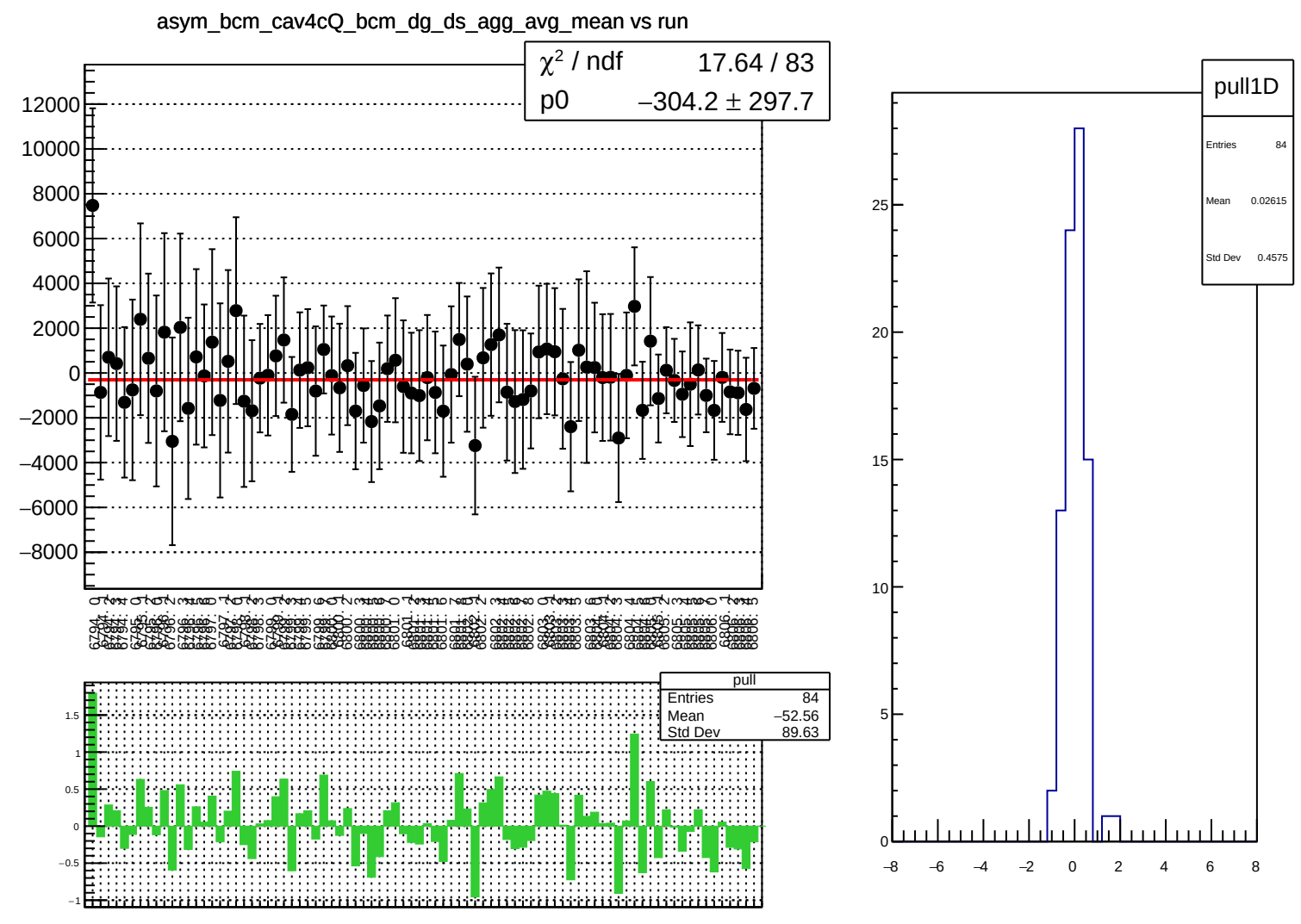

pull1D
Entries 84
Mean 0.02728
Std Dev 0.464
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

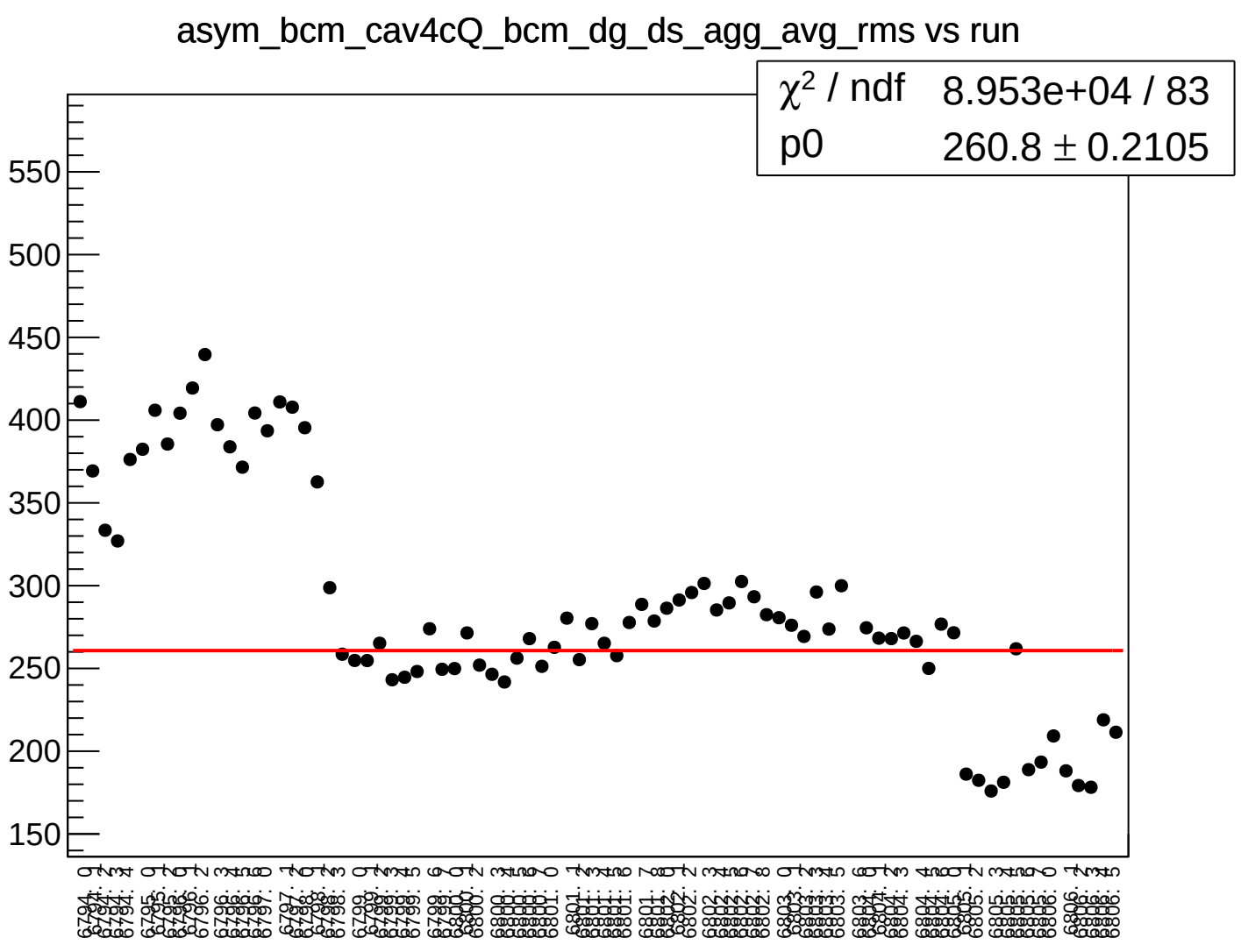

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 8.848e+04 / 83
p0 262.6 ± 0.2119
550
500
450
400
350
300
250
200
150

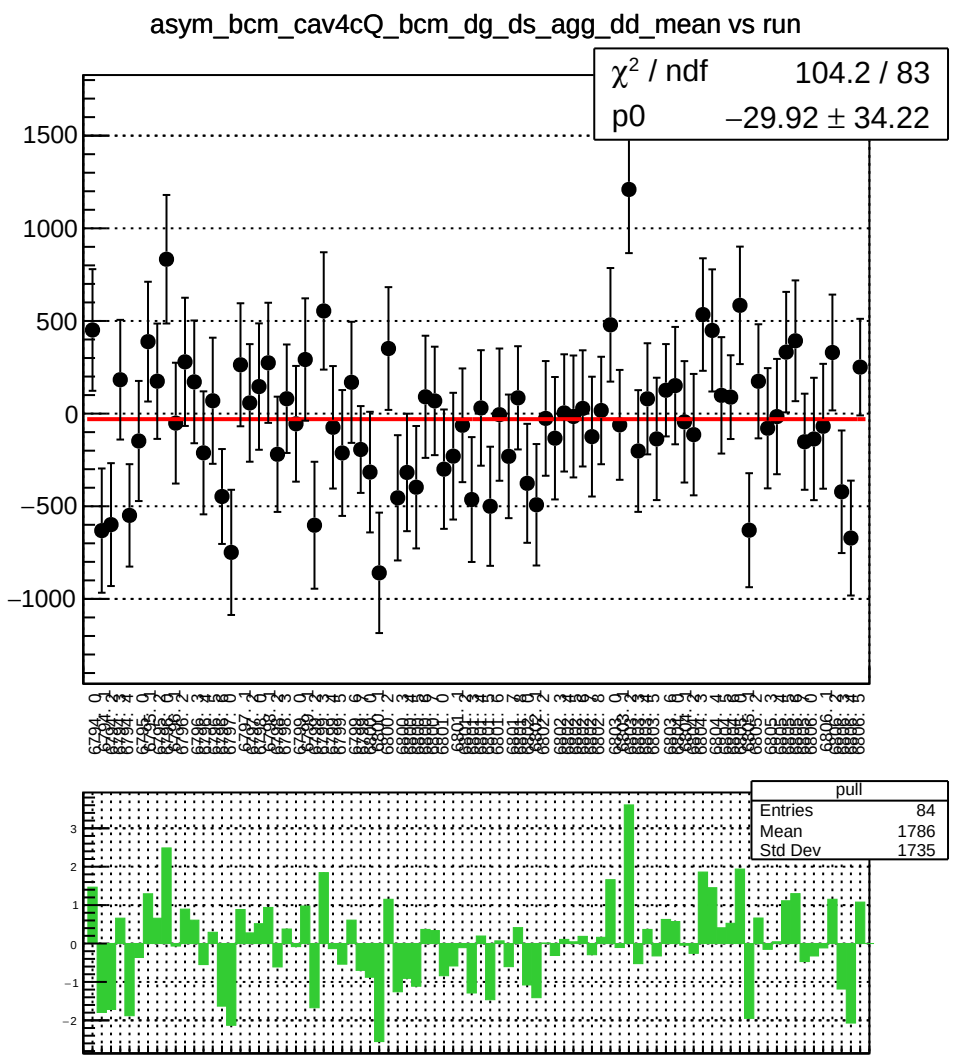

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 101.1 / 83
p0 4.854 ± 37.6
pull
Entries 84
Mean −194.6
Std Dev 222.3

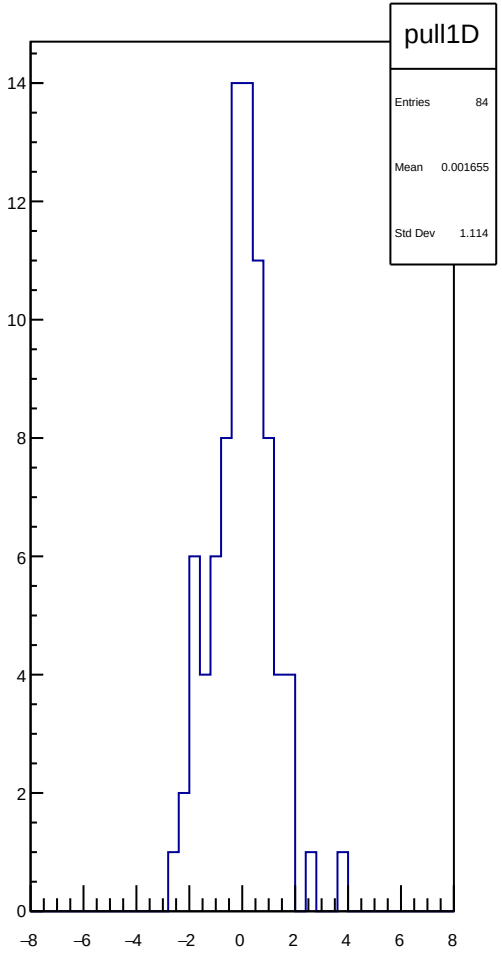

pull1D
Entries 84
Mean −0.01162
Std Dev 1.097

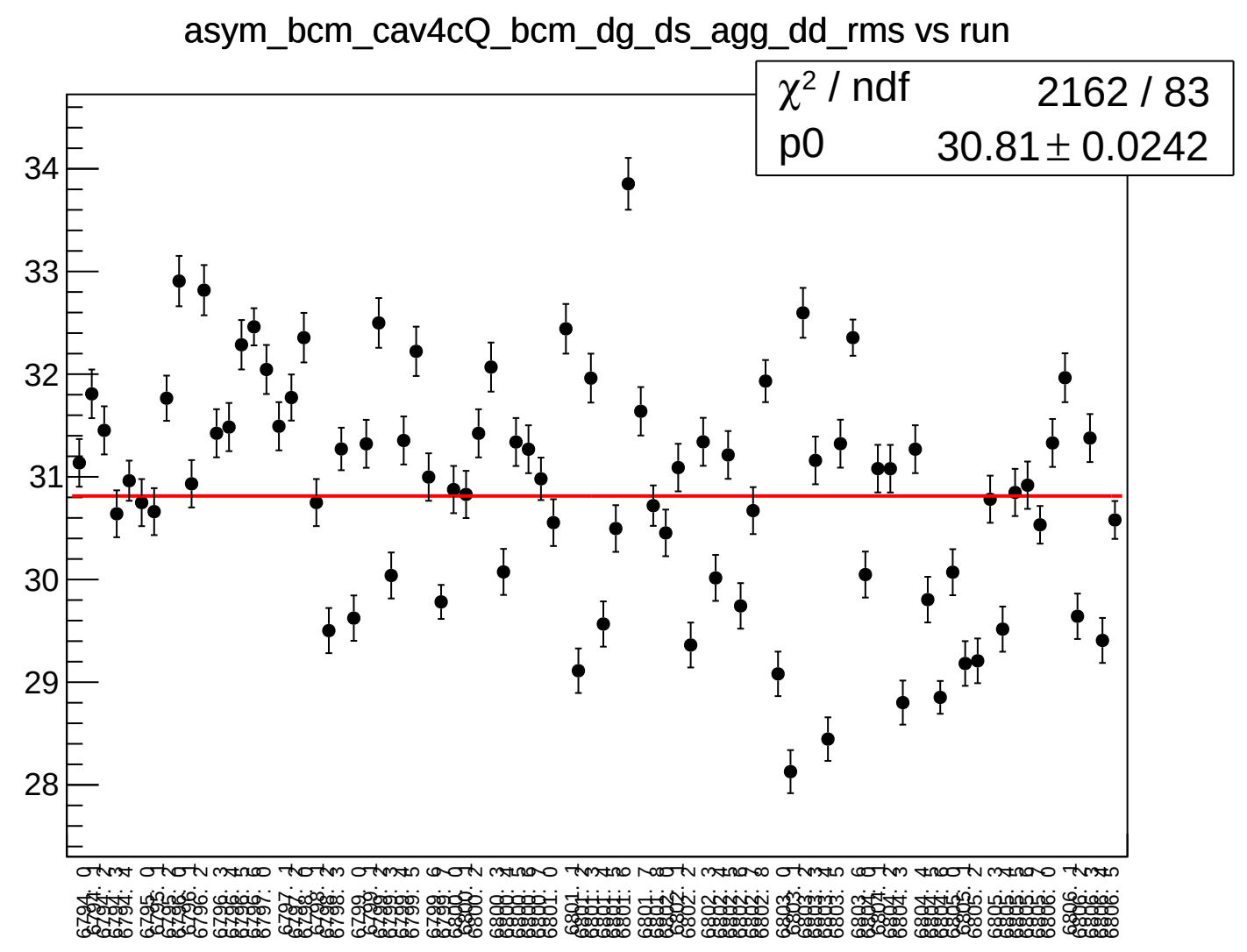

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1640 / 83
p0 33.86 ± 0.02659
37
36
35
34
33
32
31

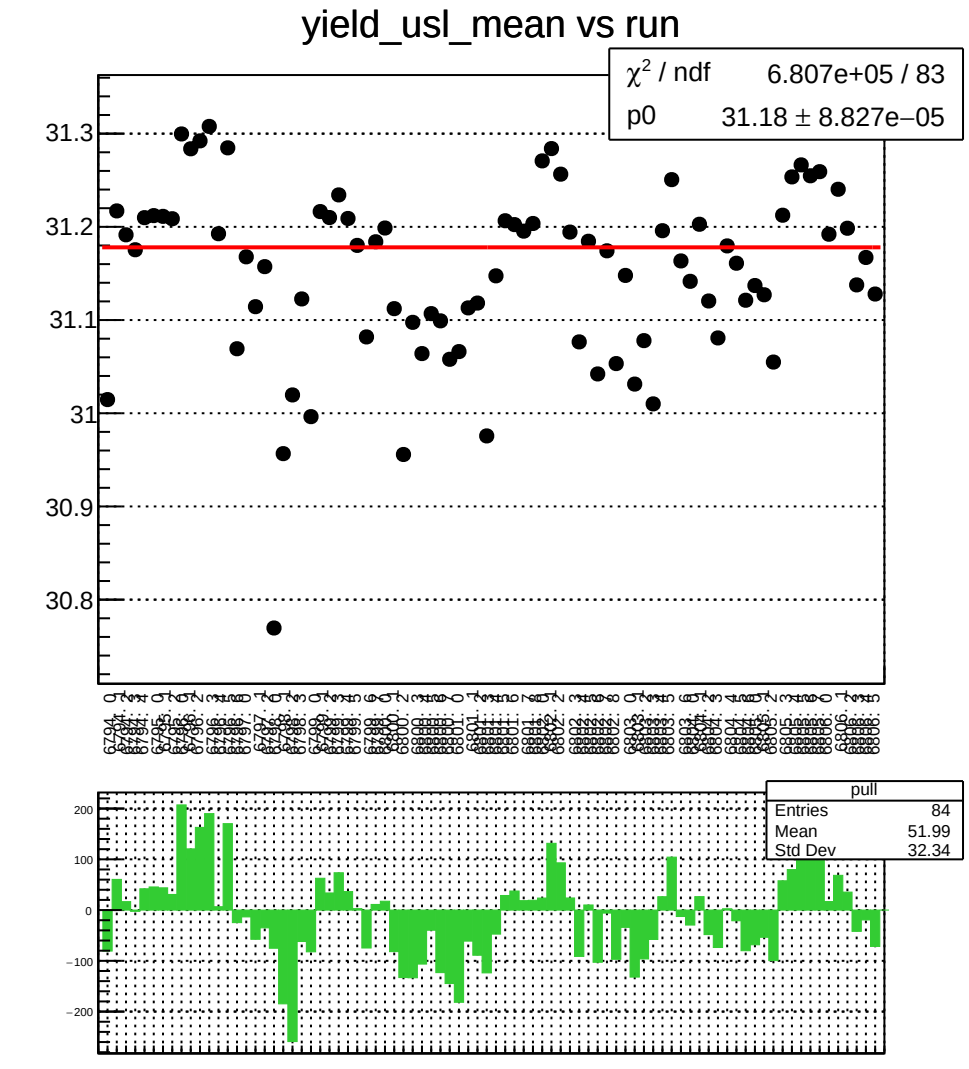

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 17.64 / 83
p0 −304.2 ± 297.7
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean −52.56
Std Dev 89.63
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean 0.02615
Std Dev 0.4575
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

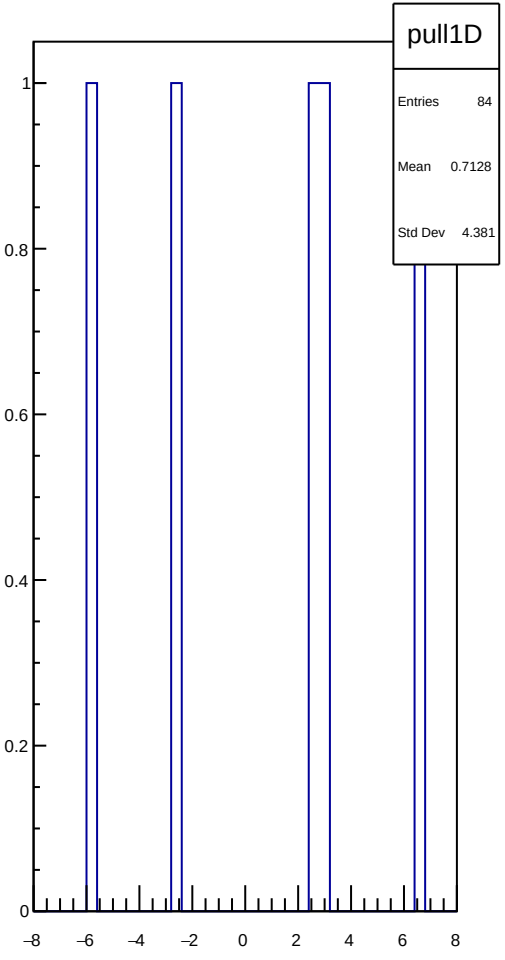

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 8.953e+04 / 83
p0 260.8 ± 0.2105
550
500
450
400
350
300
250
200
150

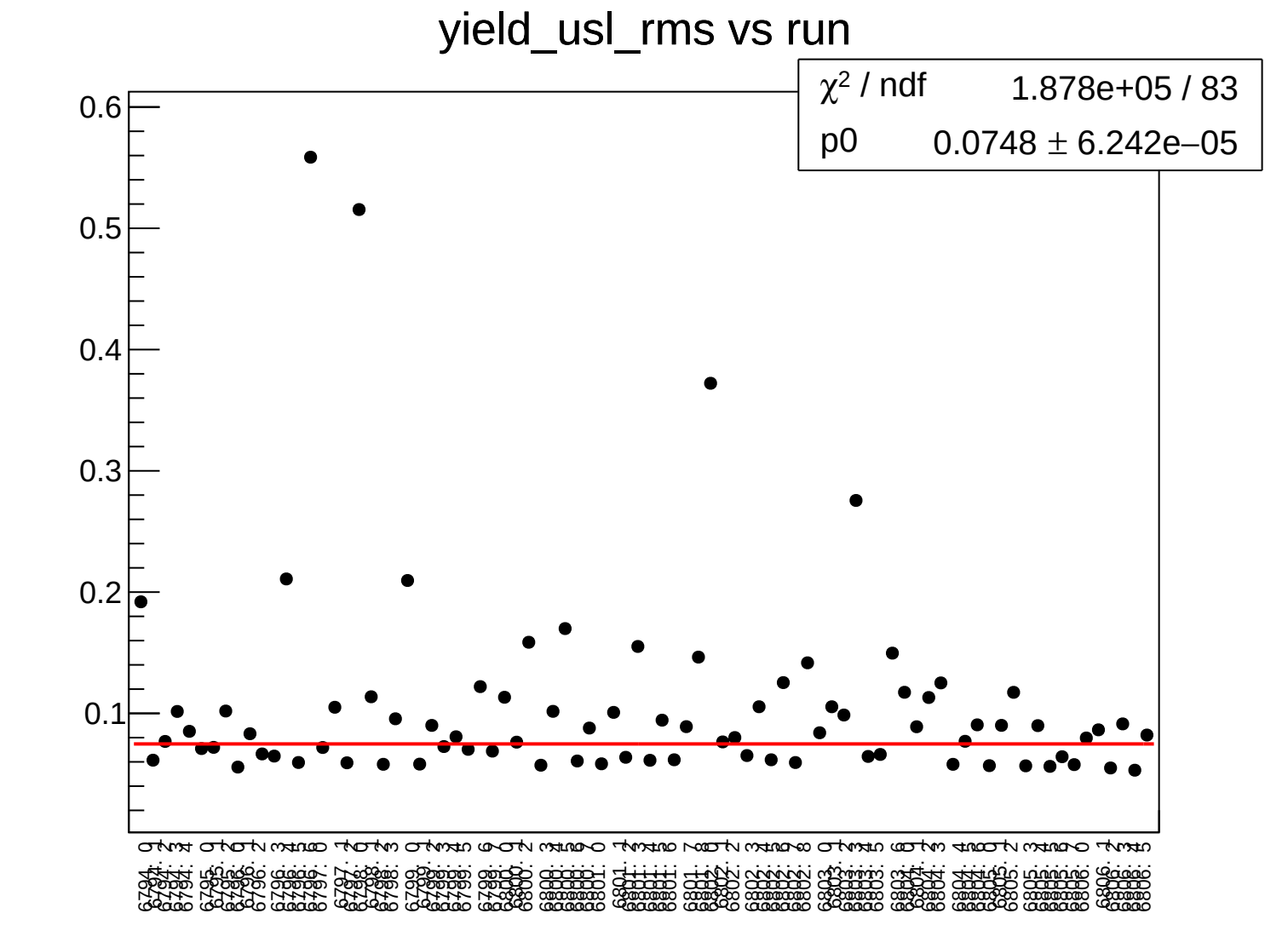

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 104.2 / 83
p0 −29.92 ± 34.22
1500
1000
500
0
−500
−1000
pull
Entries 84
Mean 1786
Std Dev 1735
3
2
1
0
−1
−2

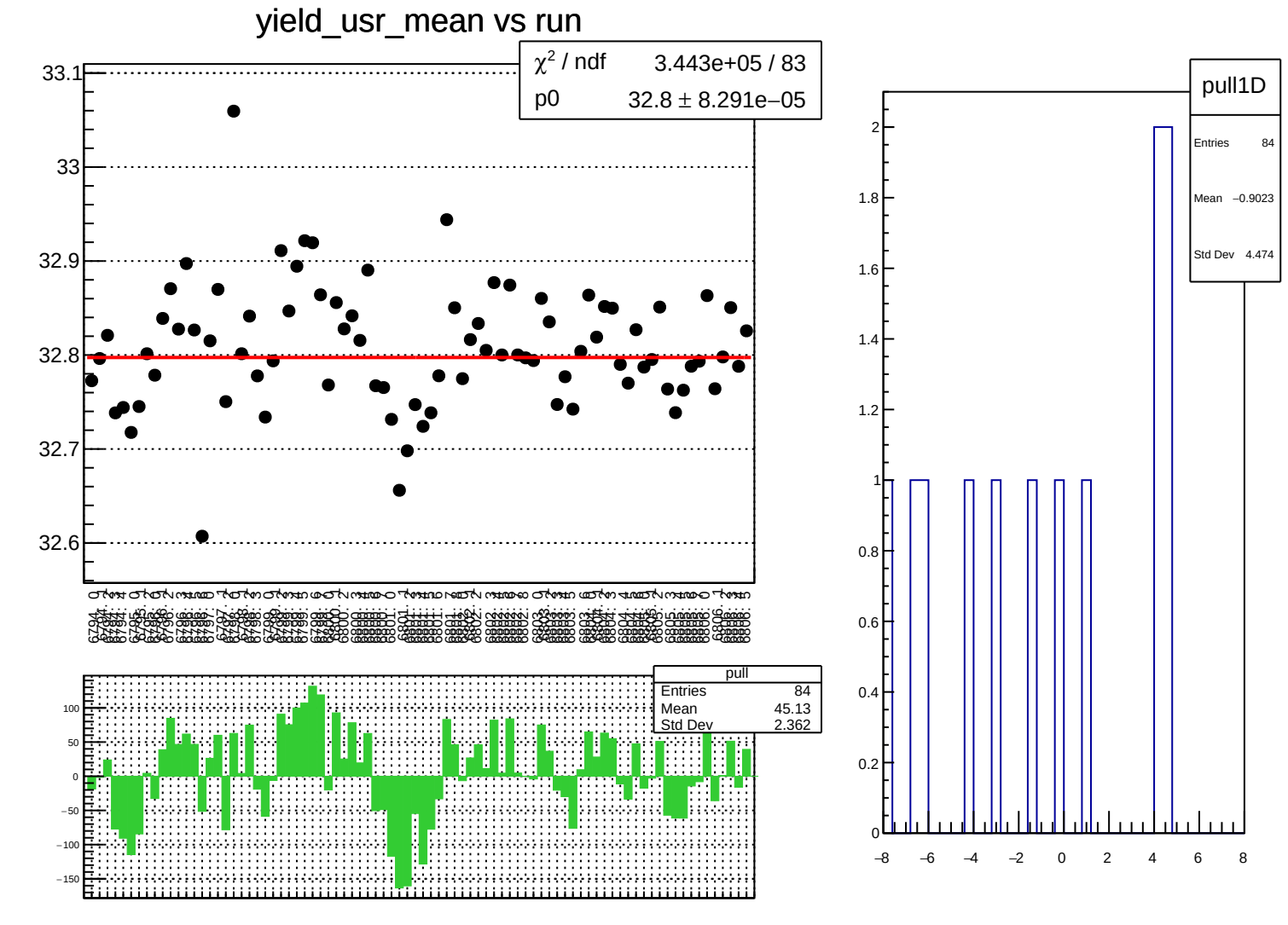

pull1D
Entries 84
Mean 0.001655
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

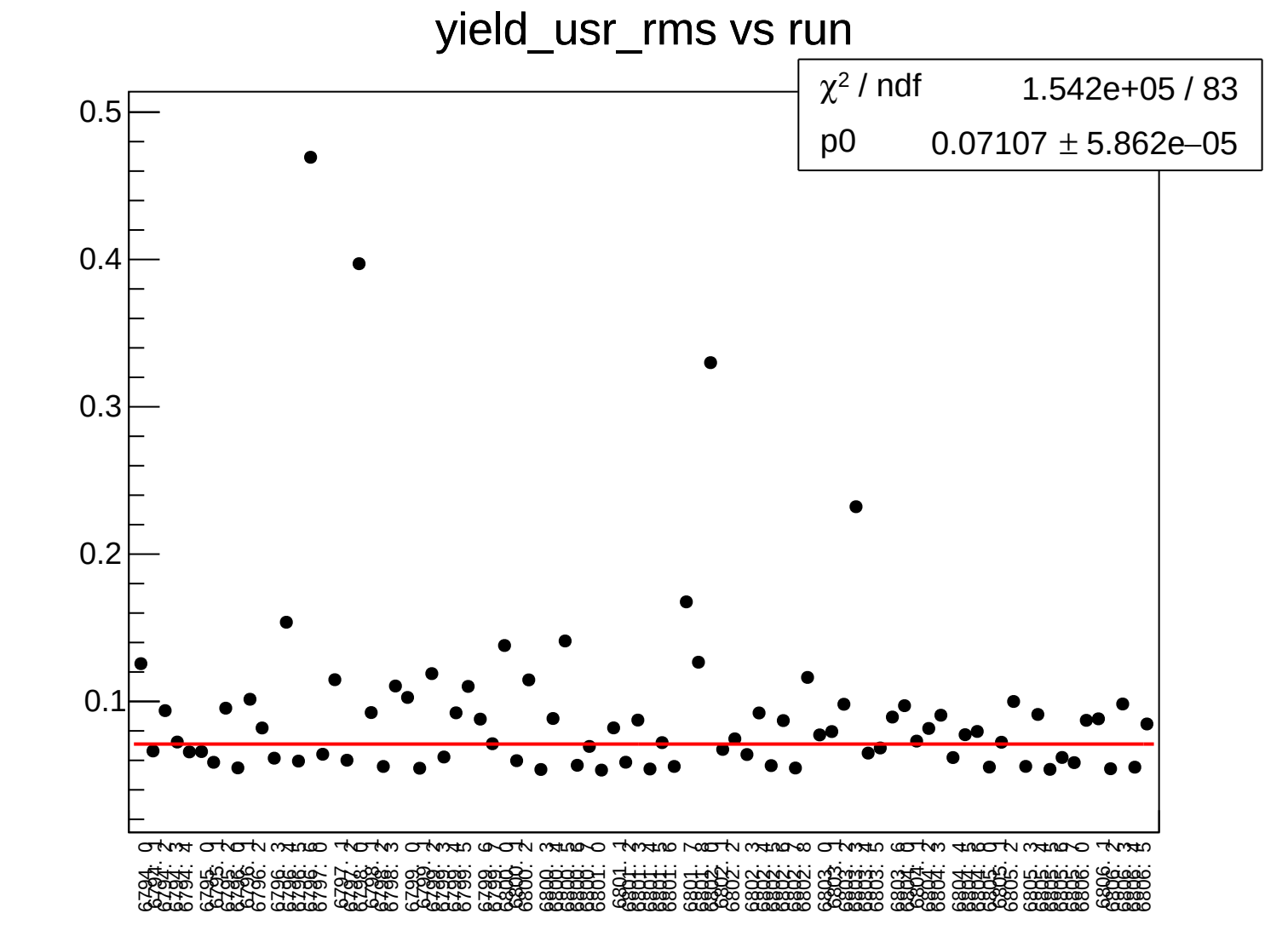

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2162 / 83
p0 30.81 ± 0.0242
34
33
32
31
30
29
28

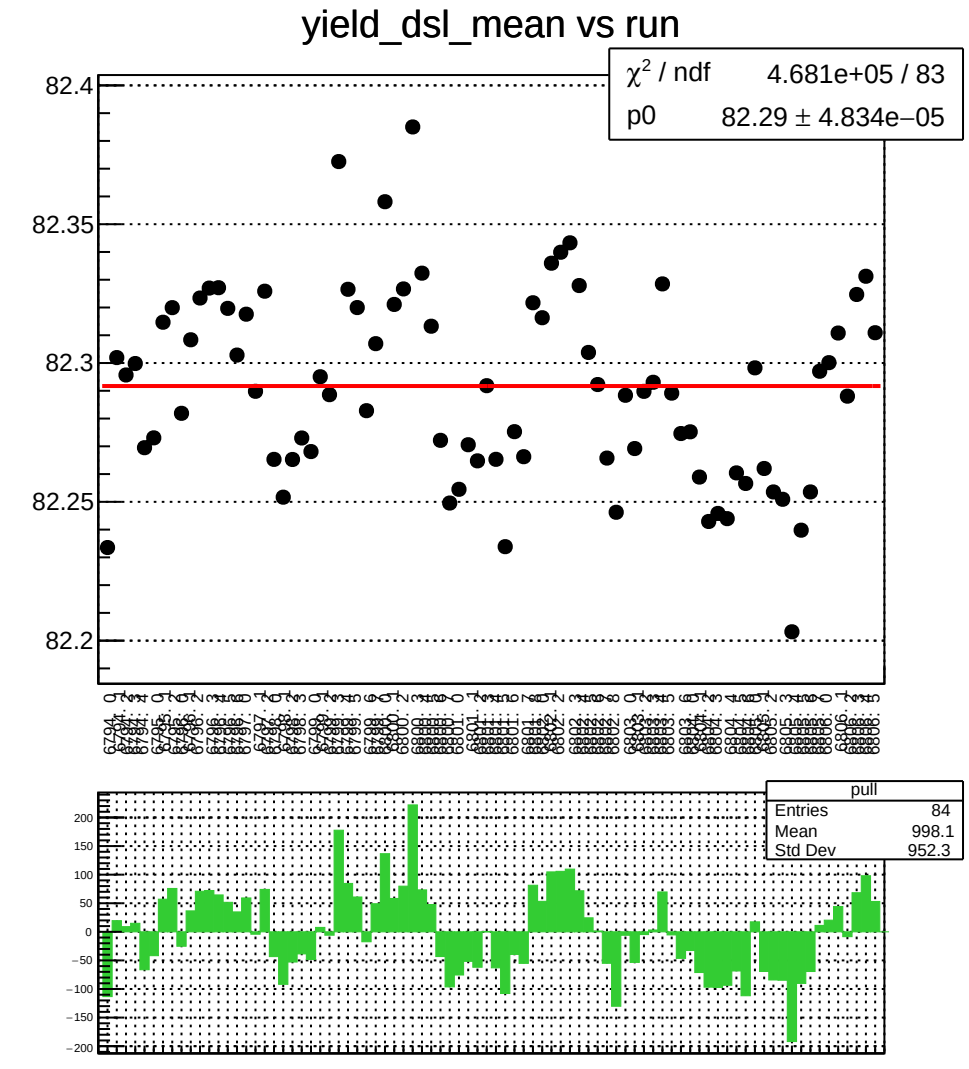

yield_usl_mean vs run
χ² / ndf 6.807e+05 / 83
p0 31.18 ± 8.827e−05
31.3
31.2
31.1
31
30.9
30.8
pull
Entries 84
Mean 51.99
Std Dev 32.34
200
100
0
−100
−200

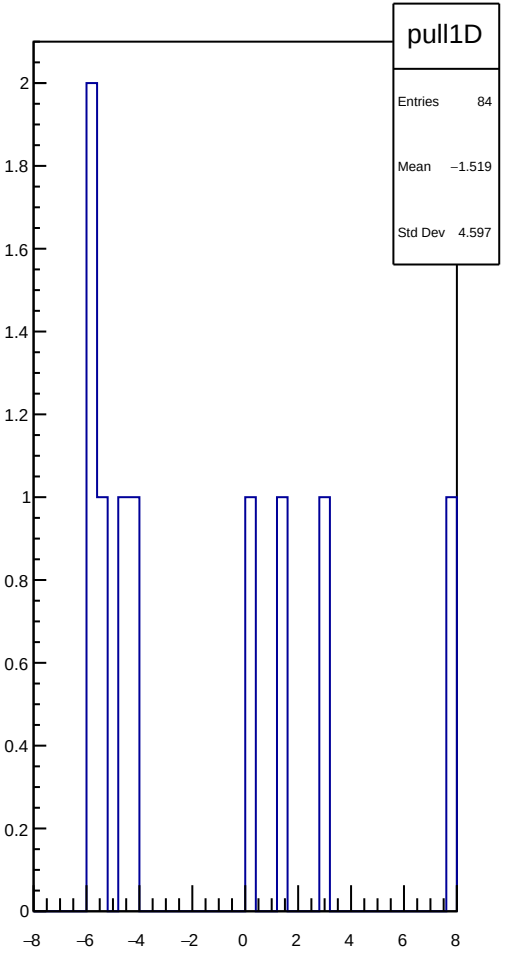

pull1D
Entries 84
Mean 0.7128
Std Dev 4.381
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

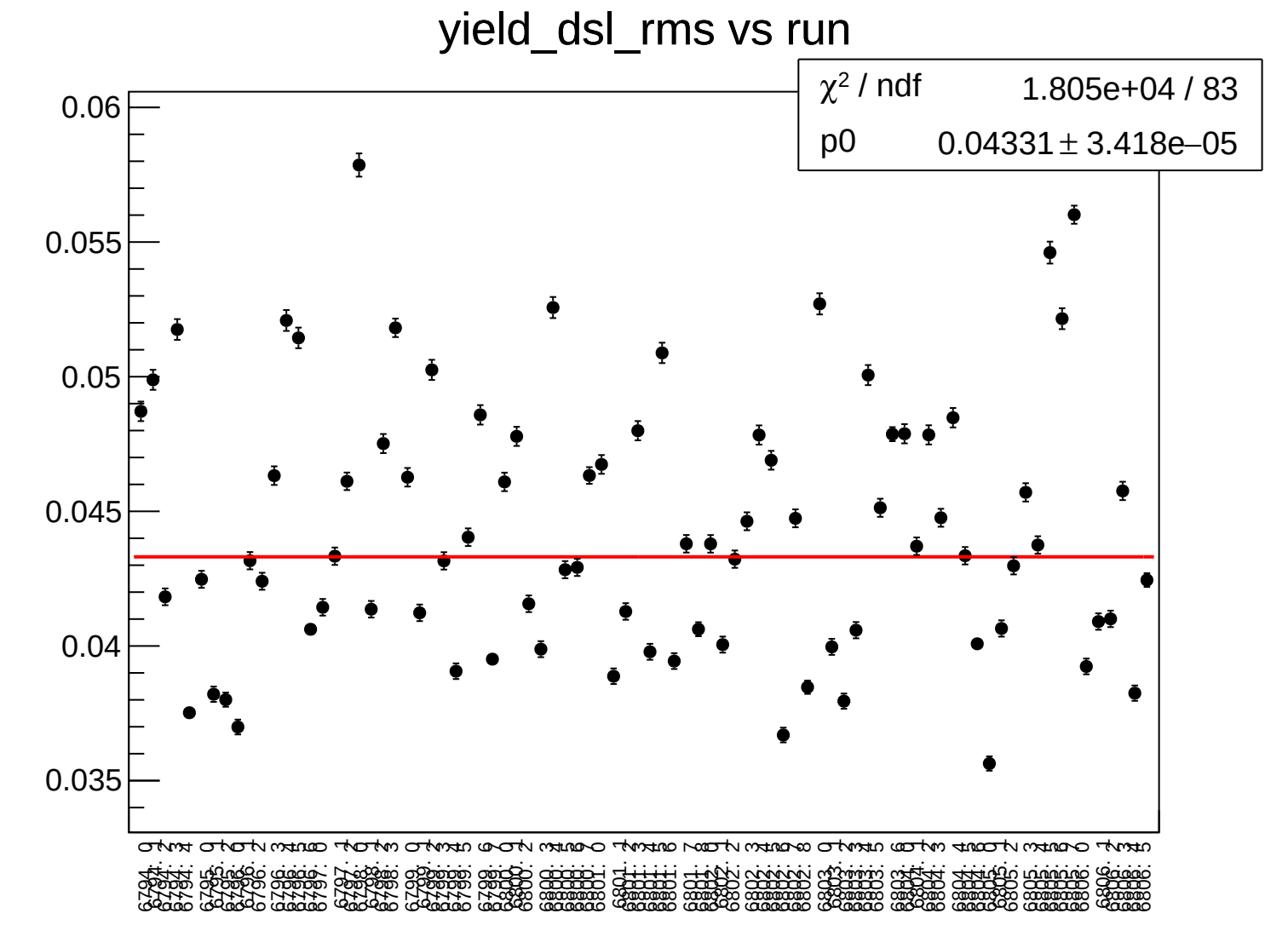

yield_usl_rms vs run
χ² / ndf 1.878e+05 / 83
p0 0.0748 ± 6.242e−05
0.6
0.5
0.4
0.3
0.2
0.1

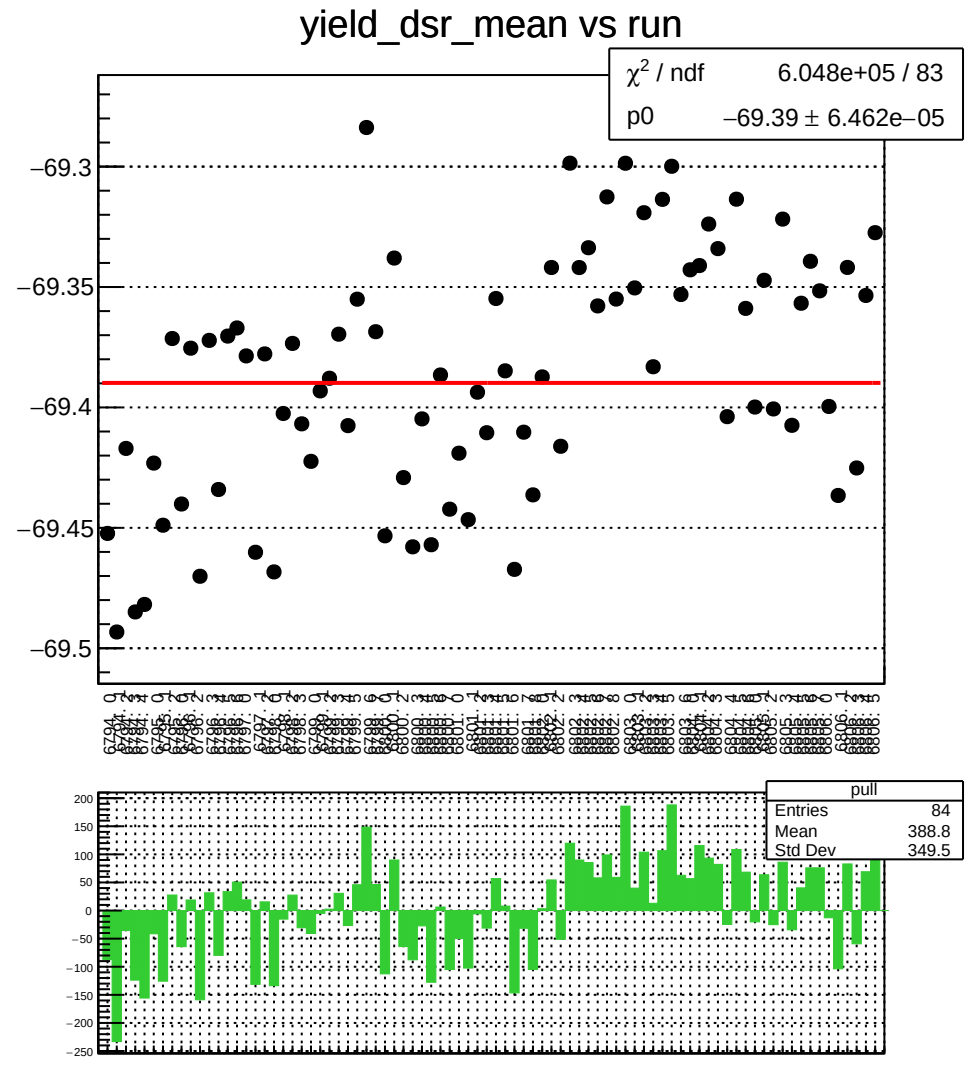

yield_usr_mean vs run
χ² / ndf 3.443e+05 / 83
p0 32.8 ± 8.291e−05
33.1
33
32.9
32.8
32.7
32.6
pull
Entries 84
Mean 45.13
Std Dev 2.362
100
50
0
−50
−100
−150
pull1D
Entries 84
Mean −0.9023
Std Dev 4.474
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

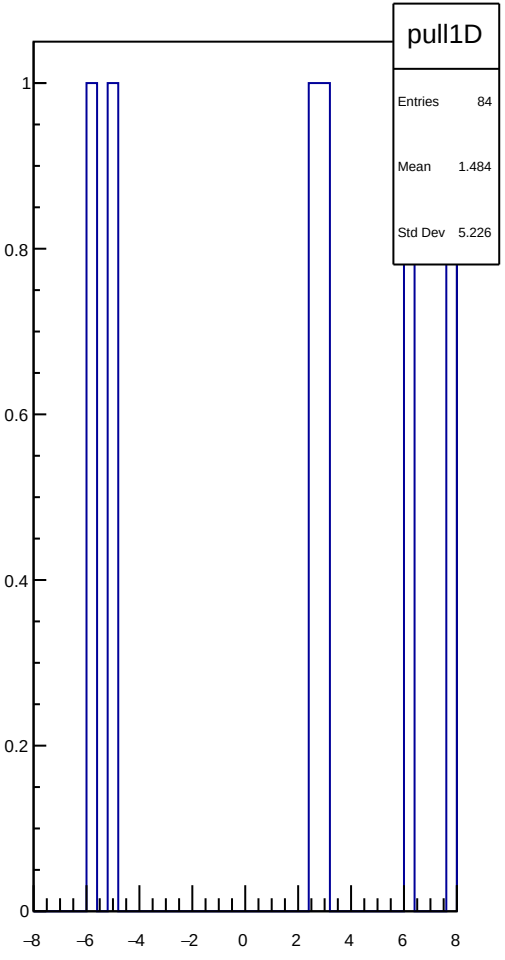

yield_usr_rms vs run
χ² / ndf 1.542e+05 / 83
p0 0.07107 ± 5.862e−05
0.5
0.4
0.3
0.2
0.1

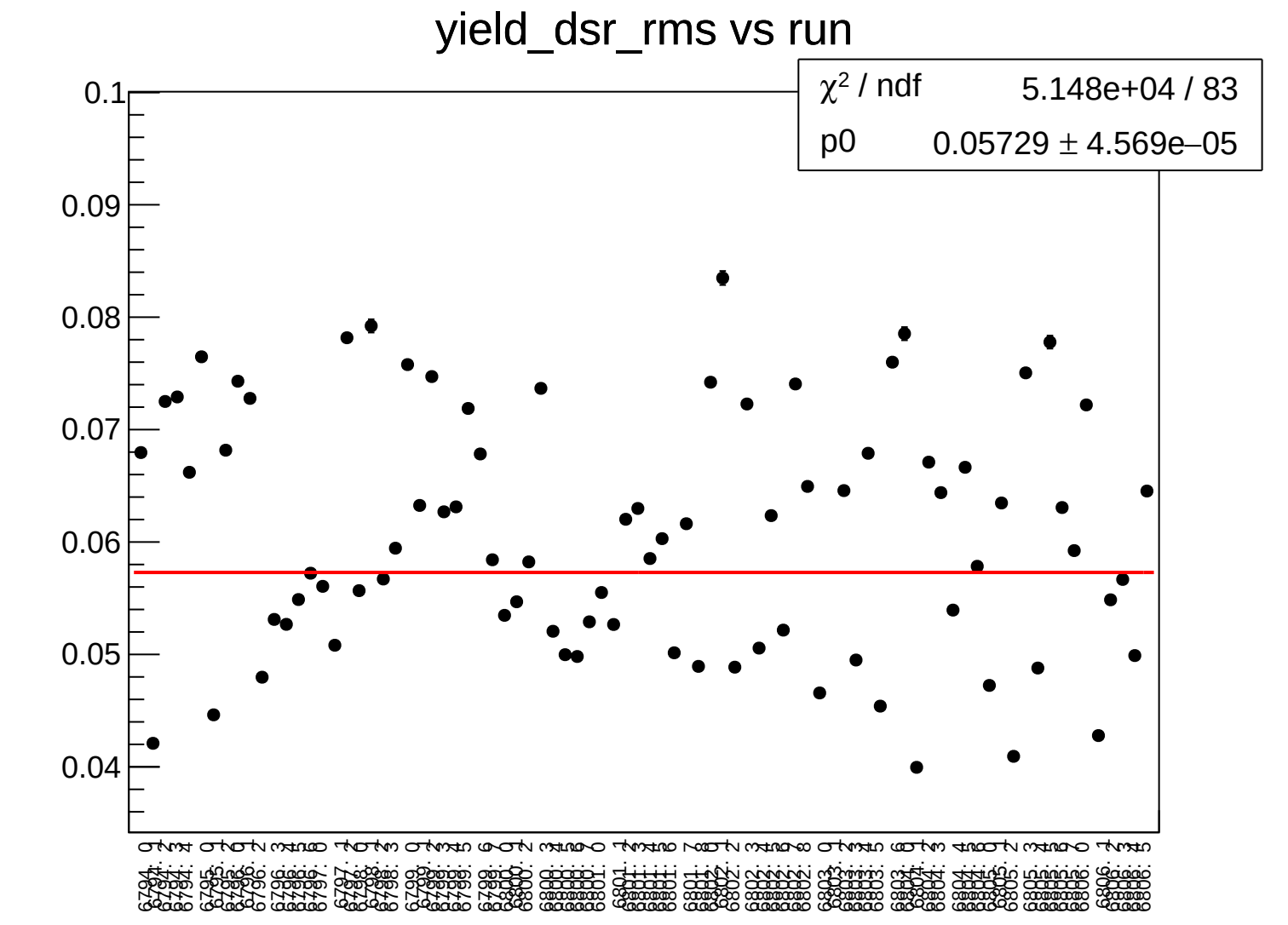

yield_dsl_mean vs run
χ² / ndf 4.681e+05 / 83
p0 82.29 ± 4.834e−05
82.4
82.35
82.3
82.25
82.2
pull
Entries 84
Mean 998.1
Std Dev 952.3
200
150
100
50
0
−50
−100
−150
−200

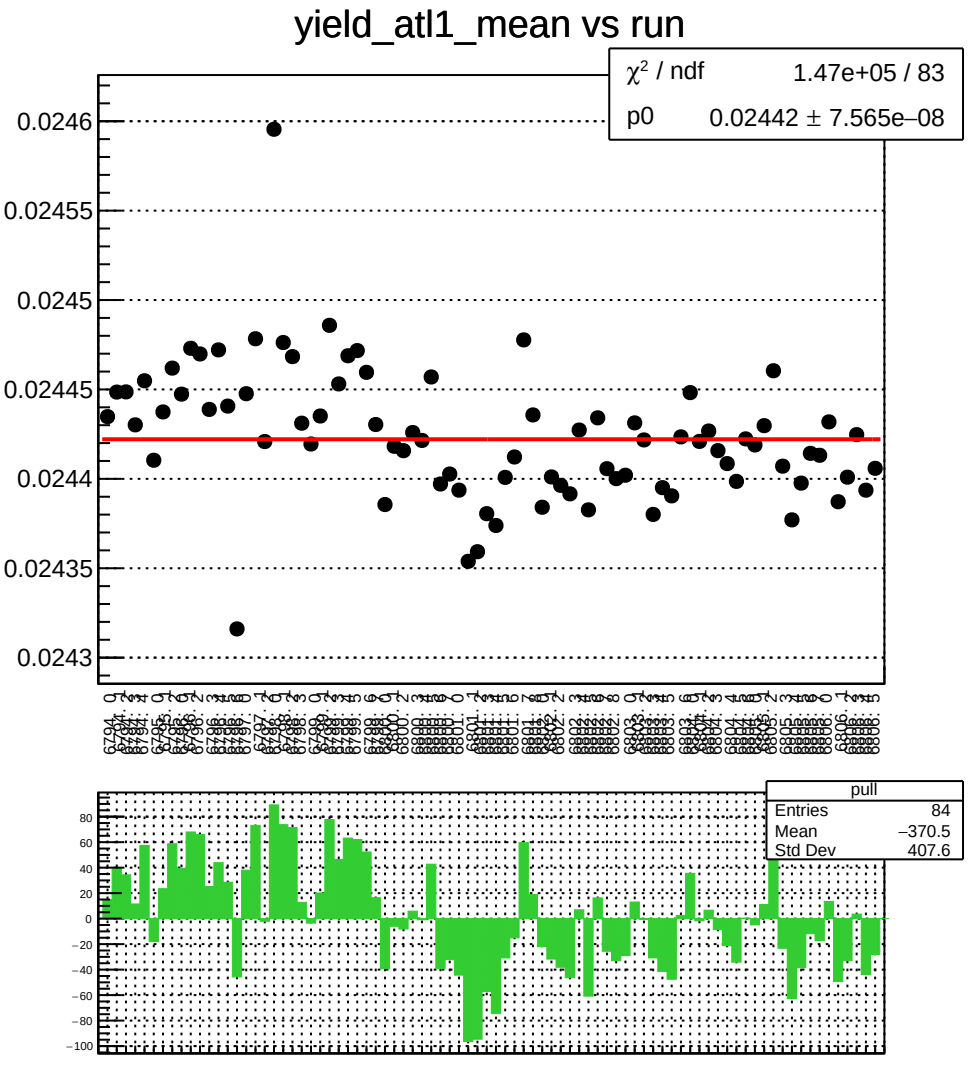

pull1D
Entries 84
Mean −1.519
Std Dev 4.597
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

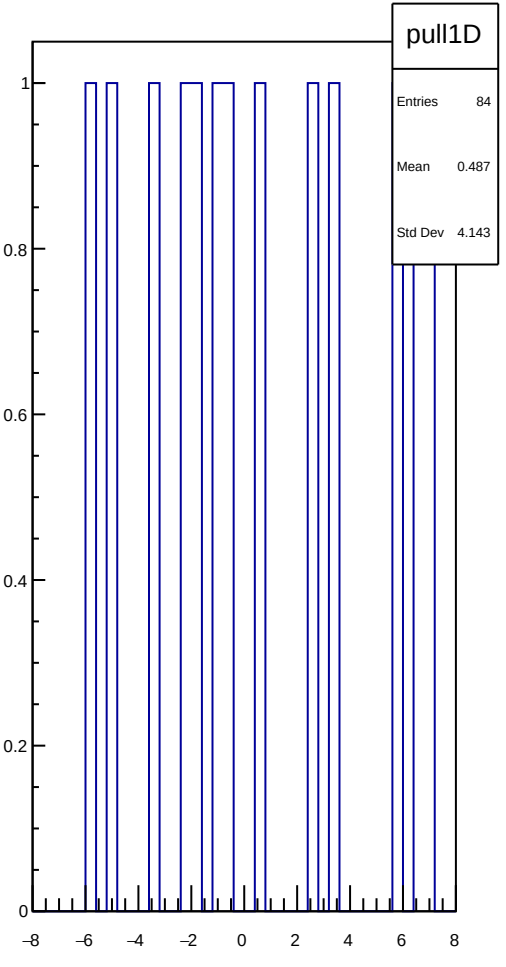

yield_dsl_rms vs run
χ² / ndf 1.805e+04 / 83
p0 0.04331 ± 3.418e–05
0.06
0.055
0.05
0.045
0.04
0.035

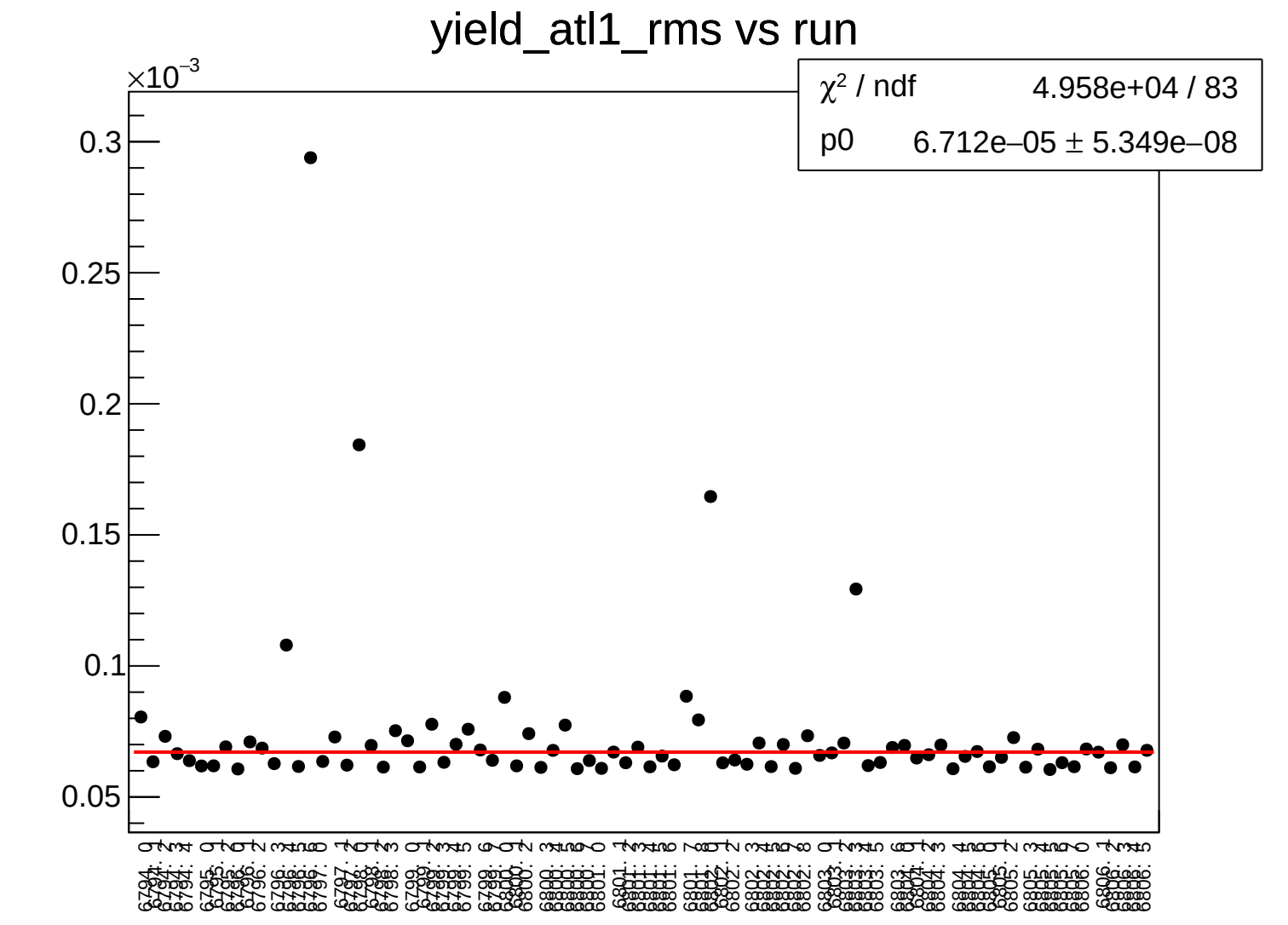

yield_dsr_mean vs run
χ² / ndf 6.048e+05 / 83
p0 −69.39 ± 6.462e−05
−69.3
−69.35
−69.4
−69.45
−69.5
pull
Entries 84
Mean 388.8
Std Dev 349.5
200
150
100
50
0
−50
−100
−150
−200
−250

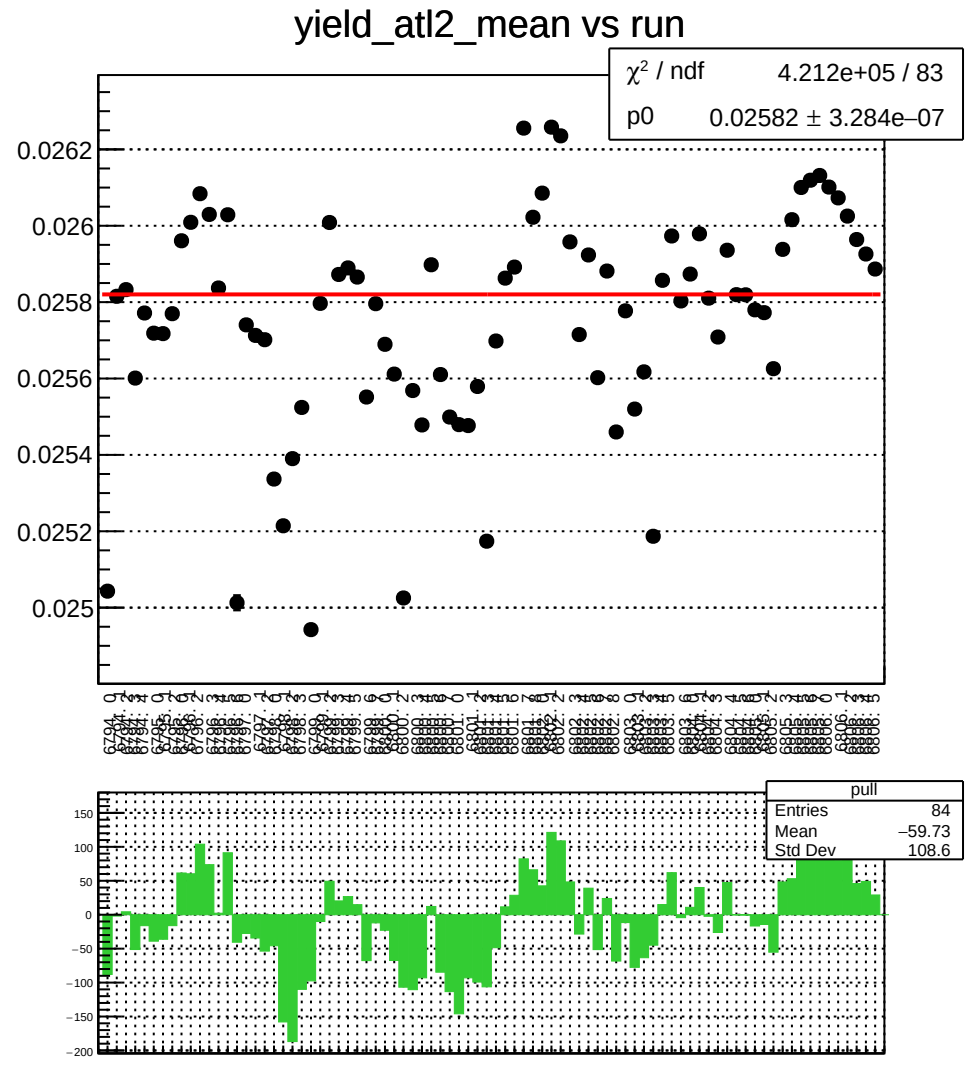

pull1D
Entries 84
Mean 1.484
Std Dev 5.226
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

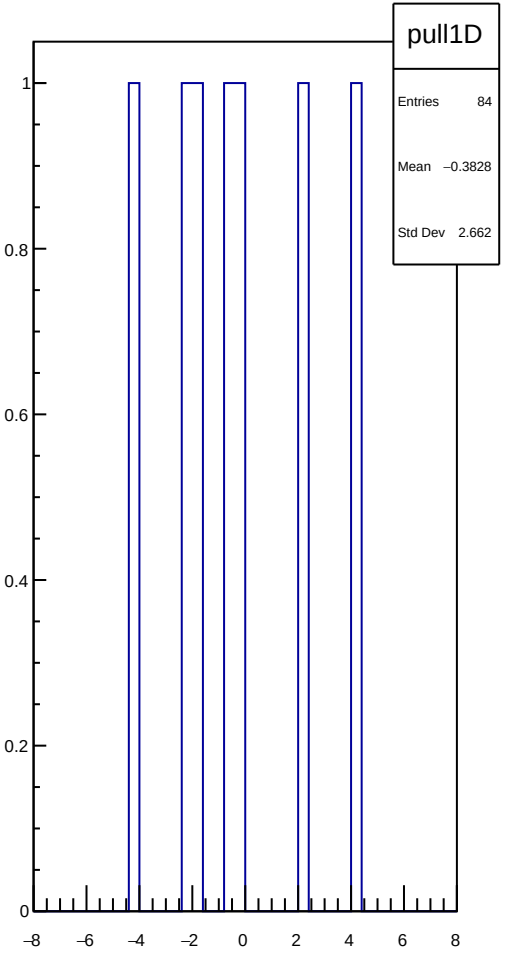

yield_dsr_rms vs run
χ² / ndf 5.148e+04 / 83
p0 0.05729 ± 4.569e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

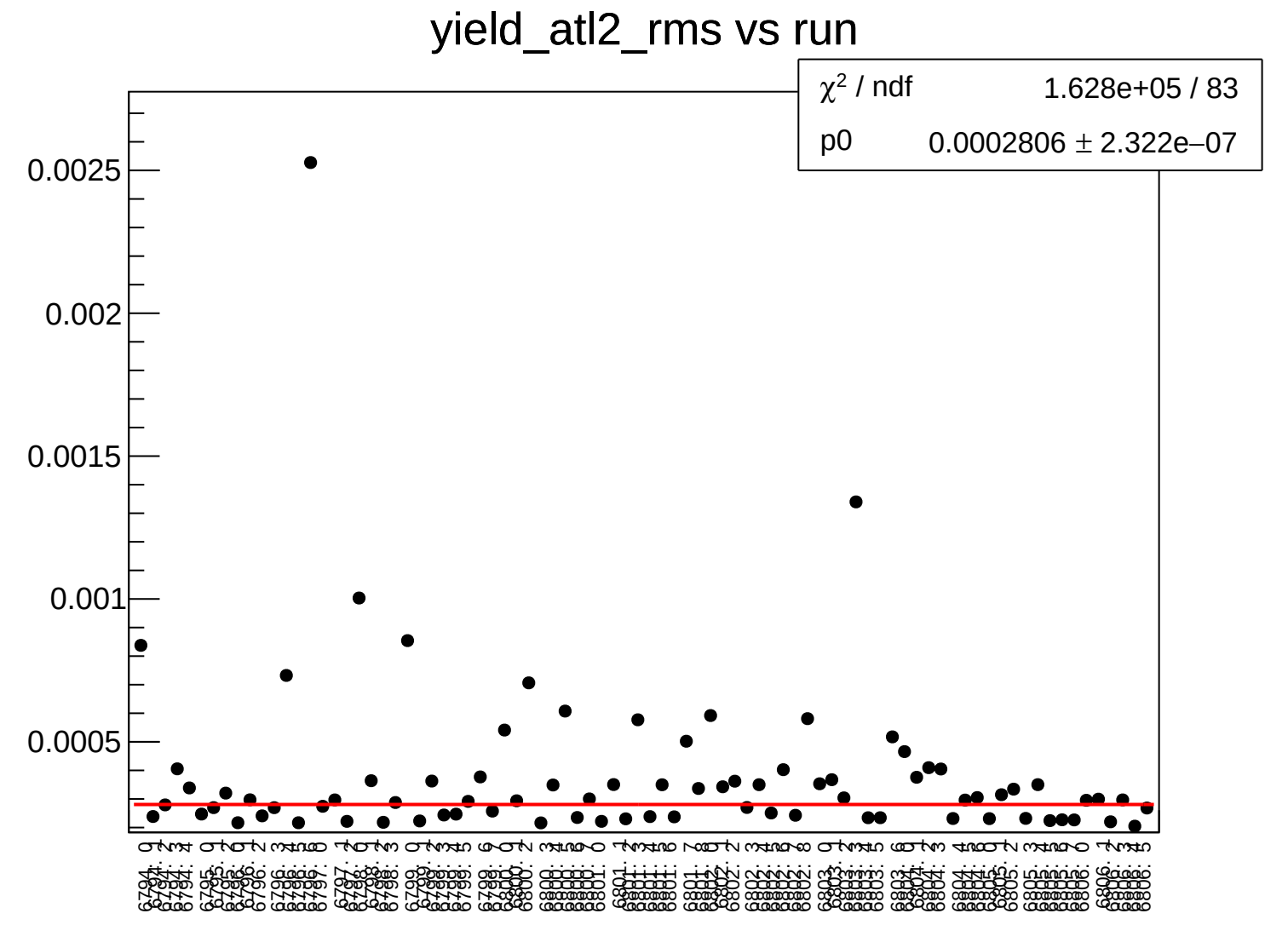

yield_atl1_mean vs run
χ² / ndf 1.47e+05 / 83
p0 0.02442 ± 7.565e−08
0.0246
0.02455
0.0245
0.02445
0.0244
0.02435
0.0243
pull
Entries 84
Mean −370.5
Std Dev 407.6
80
60
40
20
0
−20
−40
−60
−80
−100

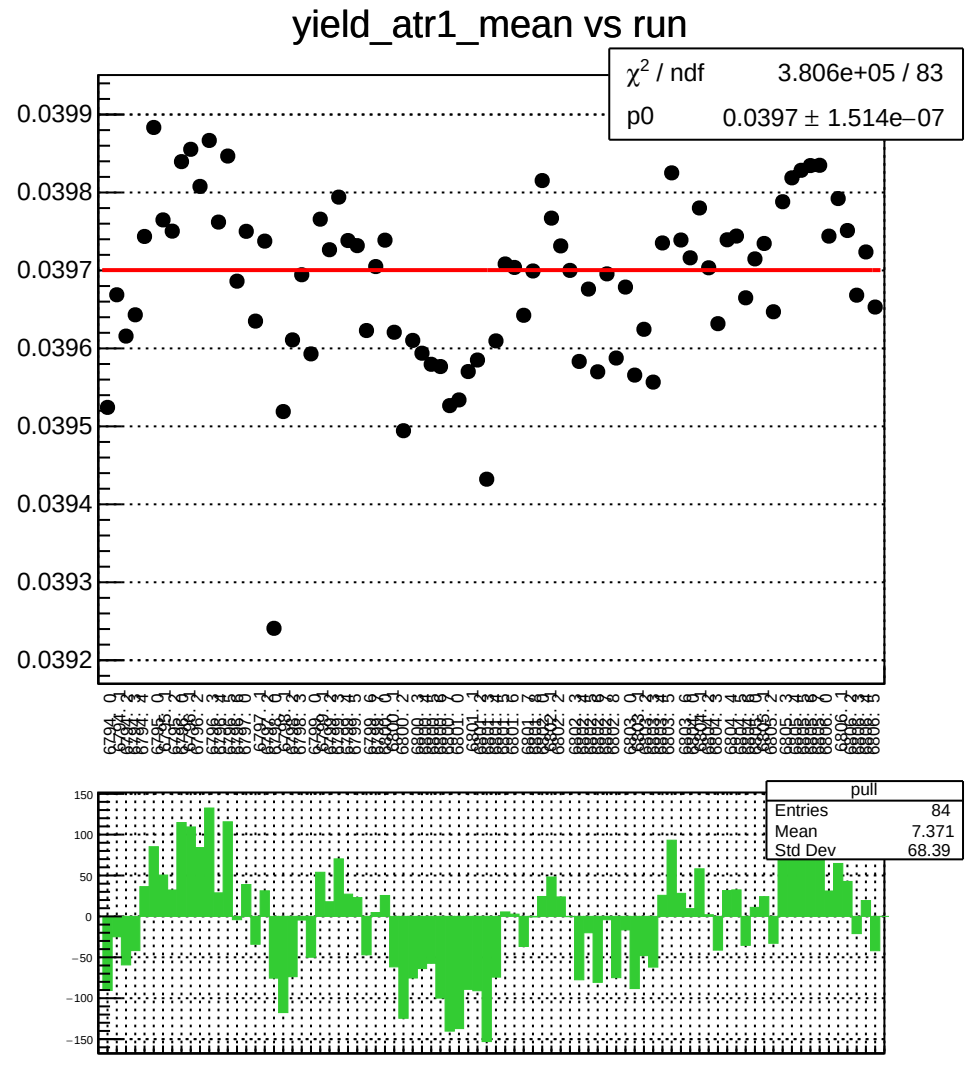

pull1D
Entries 84
Mean 0.487
Std Dev 4.143
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

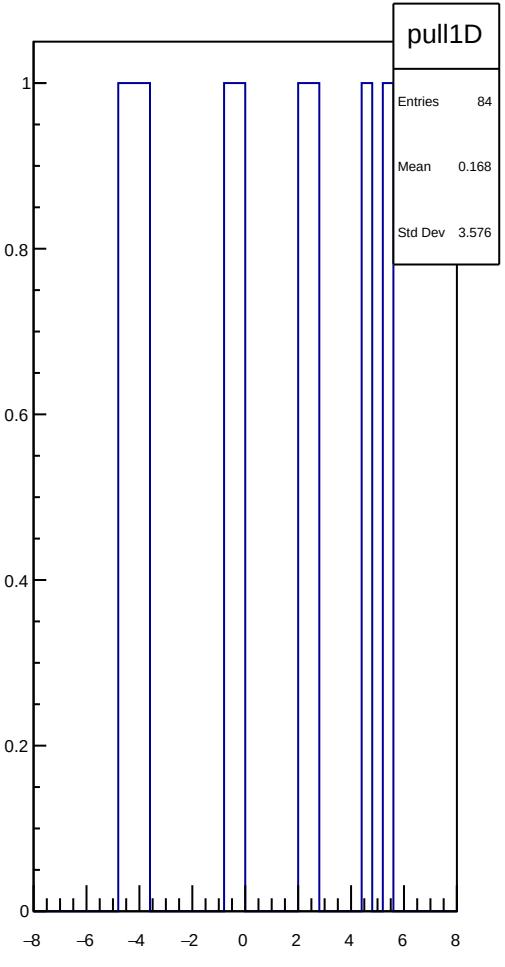

yield_atl1_rms vs run
×10⁻³
χ² / ndf 4.958e+04 / 83
p0 6.712e−05 ± 5.349e−08
0.3
0.25
0.2
0.15
0.1
0.05

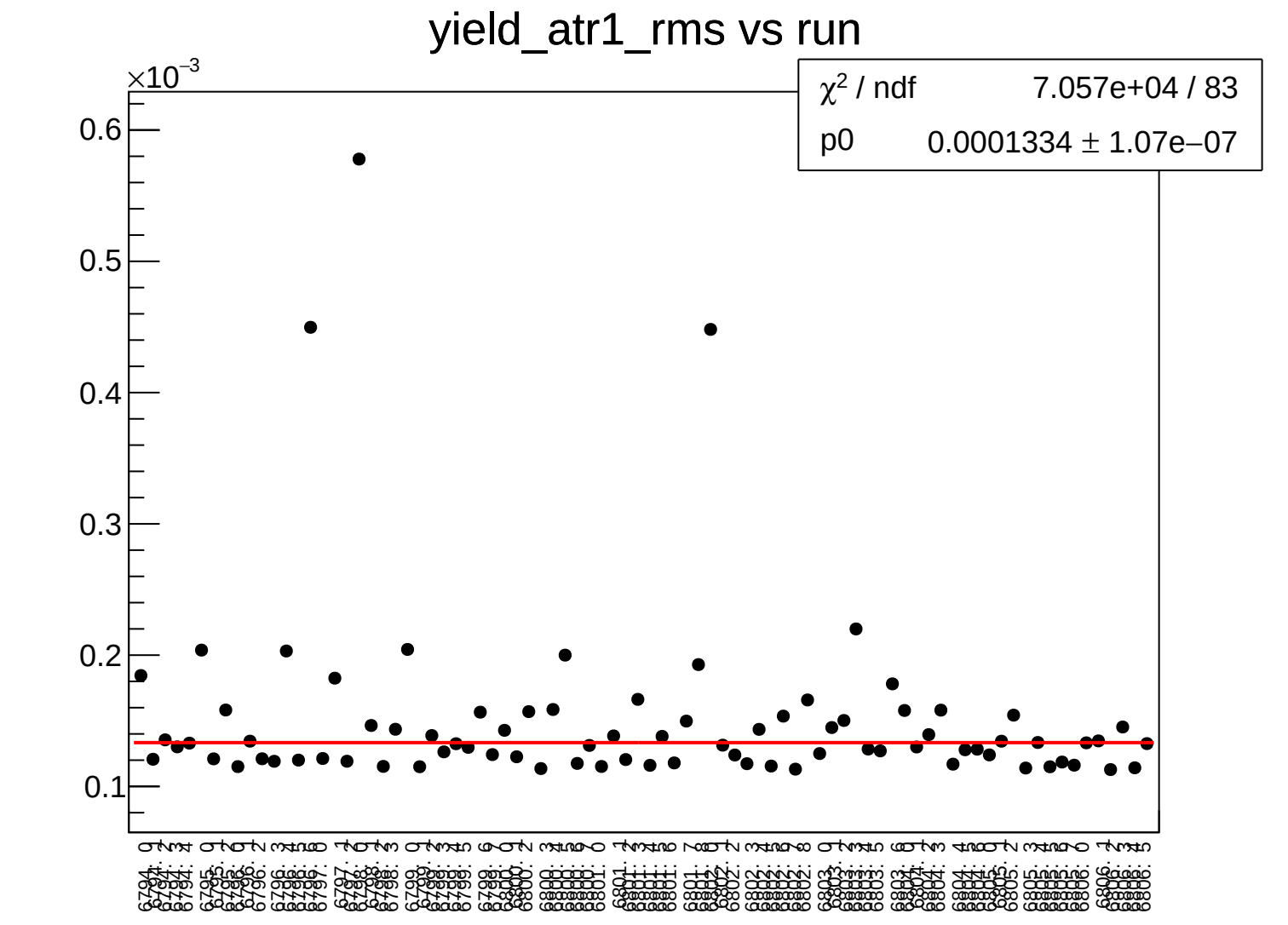

yield_atl2_mean vs run
χ² / ndf 4.212e+05 / 83
p0 0.02582 ± 3.284e–07
0.0262
0.026
0.0258
0.0256
0.0254
0.0252
0.025
pull
Entries 84
Mean –59.73
Std Dev 108.6
150
100
50
0
–50
–100
–150
–200

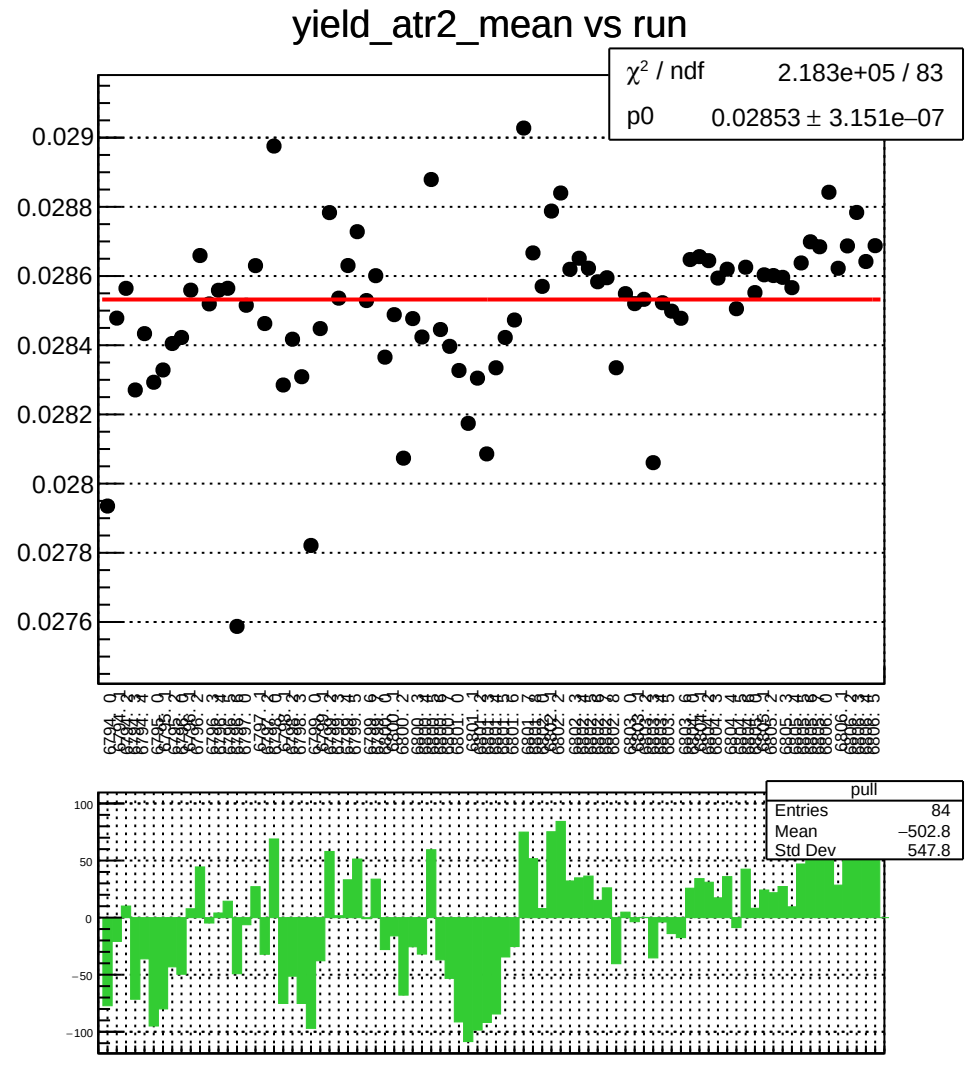

pull1D
Entries 84
Mean –0.3828
Std Dev 2.662
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

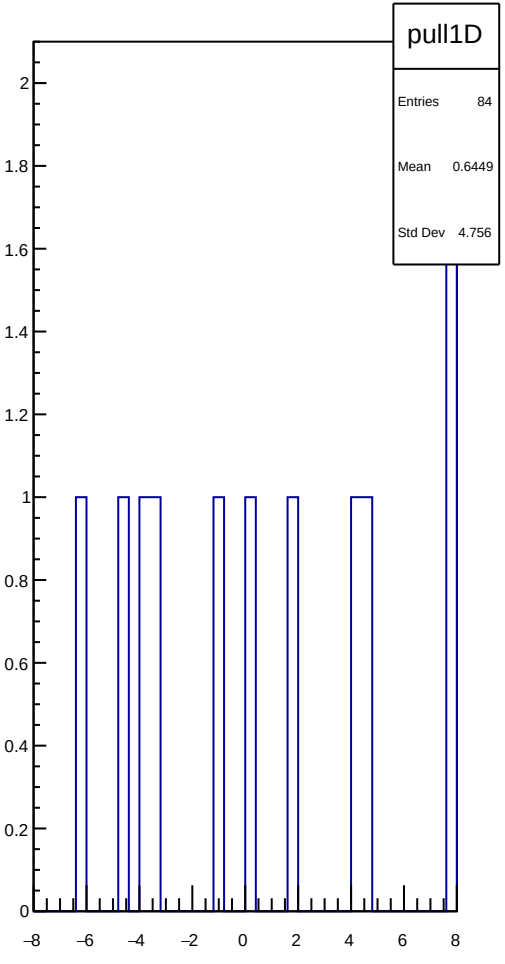

yield_atl2_rms vs run
χ² / ndf 1.628e+05 / 83
p0 0.0002806 ± 2.322e–07
0.0025
0.002
0.0015
0.001
0.0005

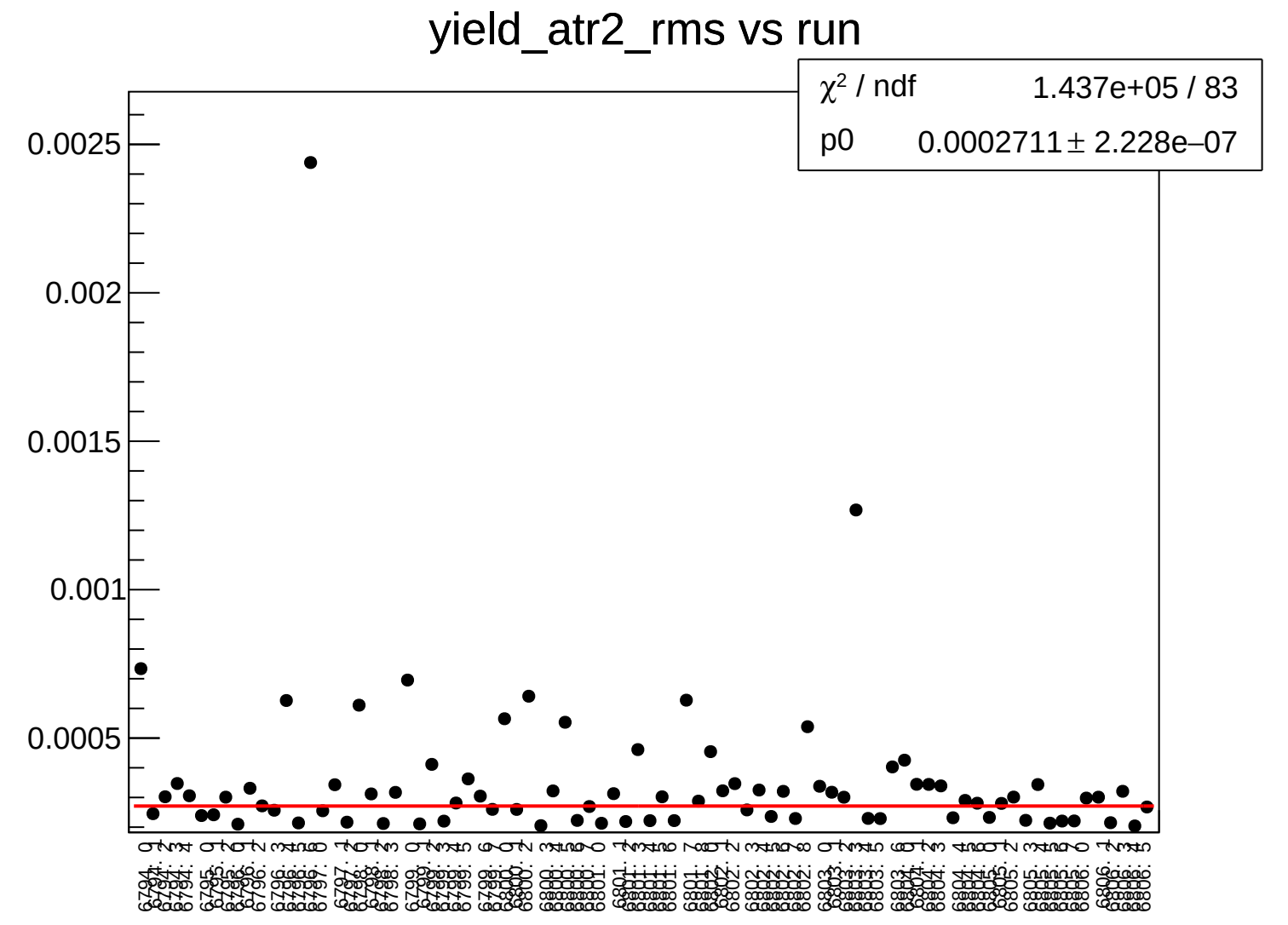

yield_atr1_mean vs run
χ² / ndf 3.806e+05 / 83
p0 0.0397 ± 1.514e−07
0.0399
0.0398
0.0397
0.0396
0.0395
0.0394
0.0393
0.0392
pull
Entries 84
Mean 7.371
Std Dev 68.39
150
100
50
0
−50
−100
−150

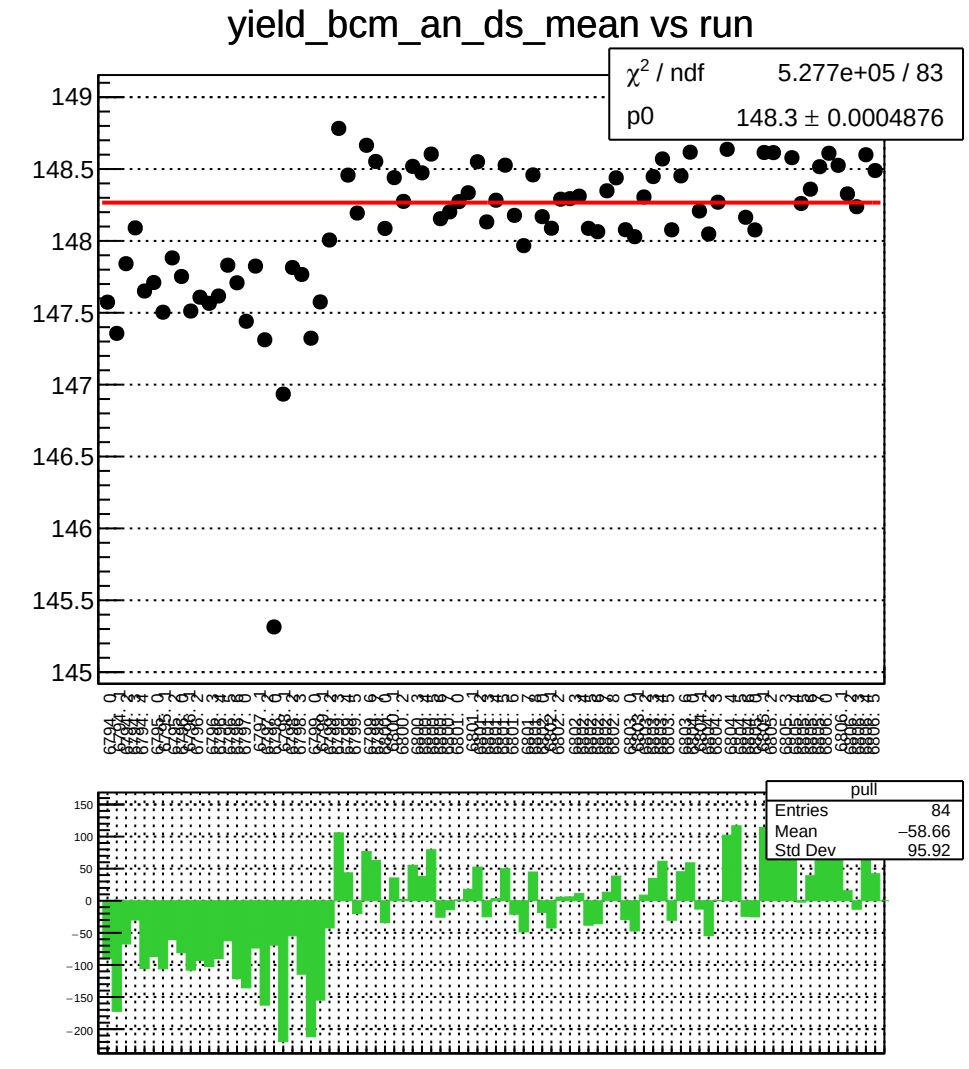

pull1D
Entries 84
Mean 0.168
Std Dev 3.576
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

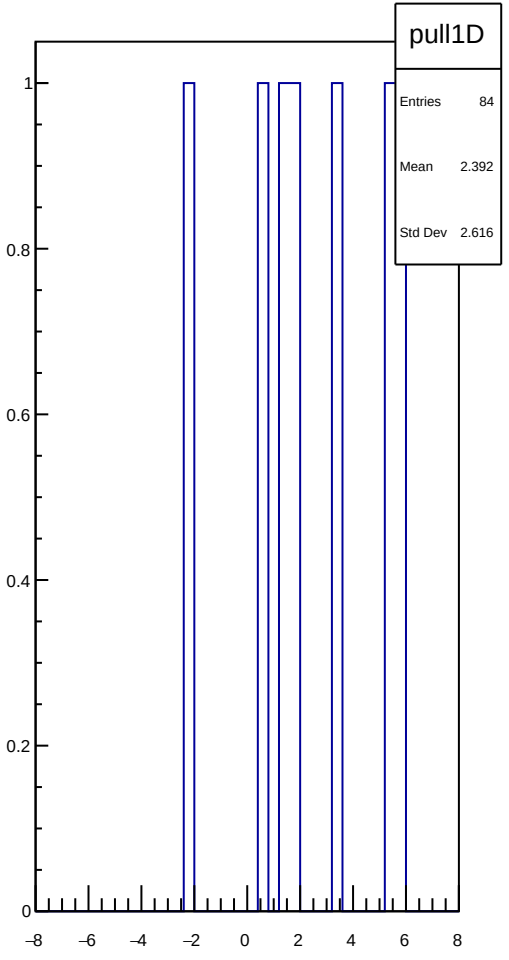

yield_atr1_rms vs run
×10⁻³
χ² / ndf 7.057e+04 / 83
p0 0.0001334 ± 1.07e−07
0.6
0.5
0.4
0.3
0.2
0.1

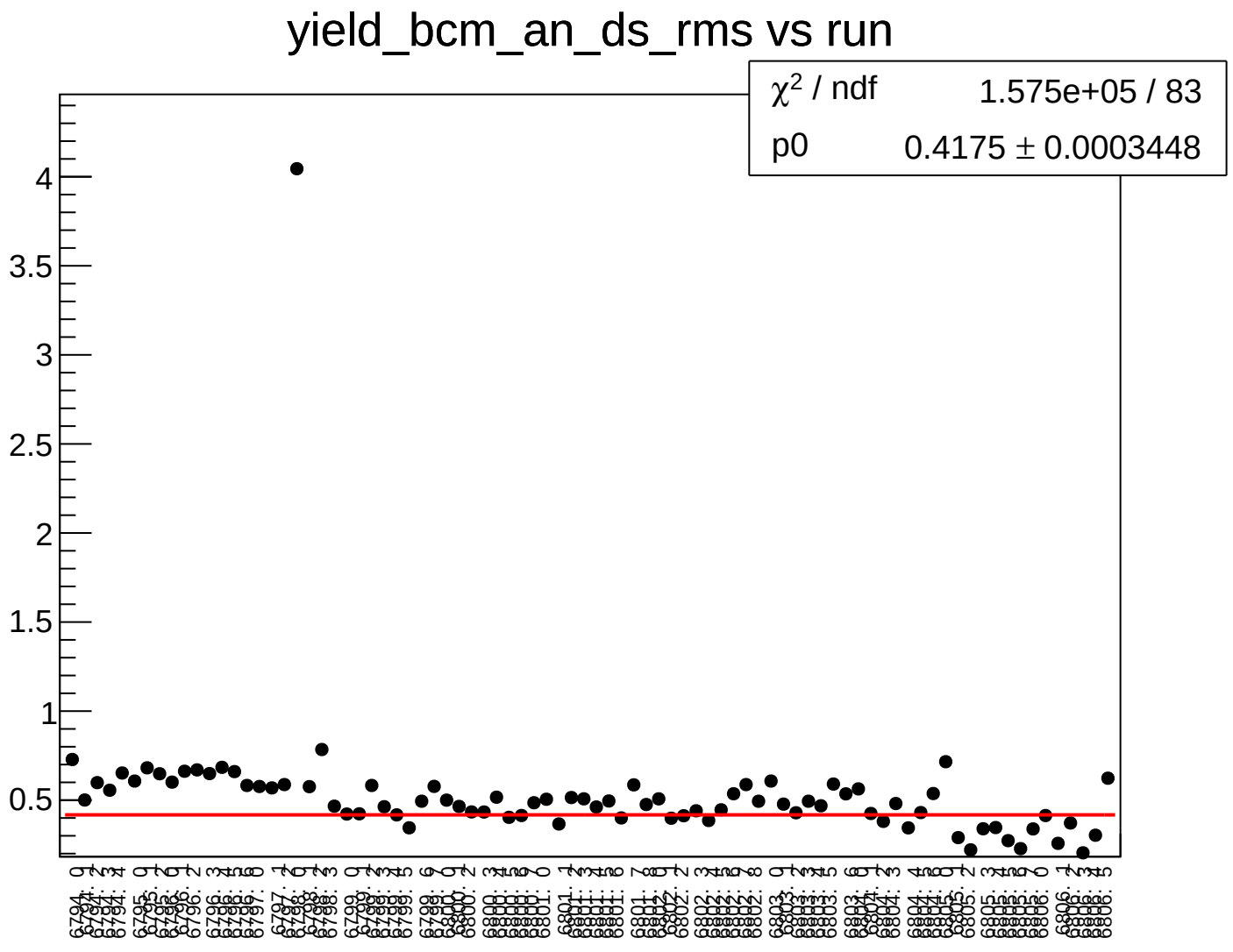

yield_atr2_mean vs run
χ² / ndf 2.183e+05 / 83
p0 0.02853 ± 3.151e–07
0.029
0.0288
0.0286
0.0284
0.0282
0.028
0.0278
0.0276
pull
Entries 84
Mean –502.8
Std Dev 547.8
100
50
0
–50
–100

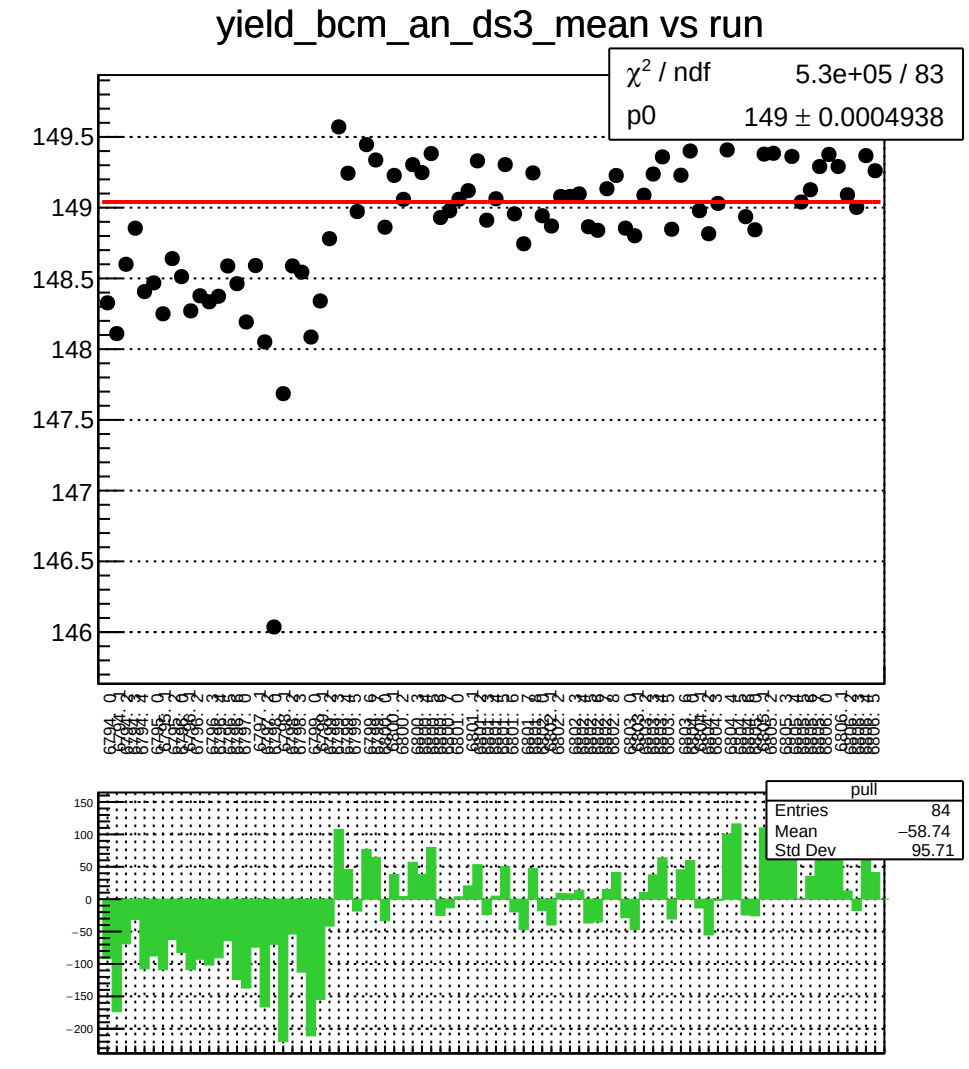

pull1D
Entries 84
Mean 0.6449
Std Dev 4.756
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

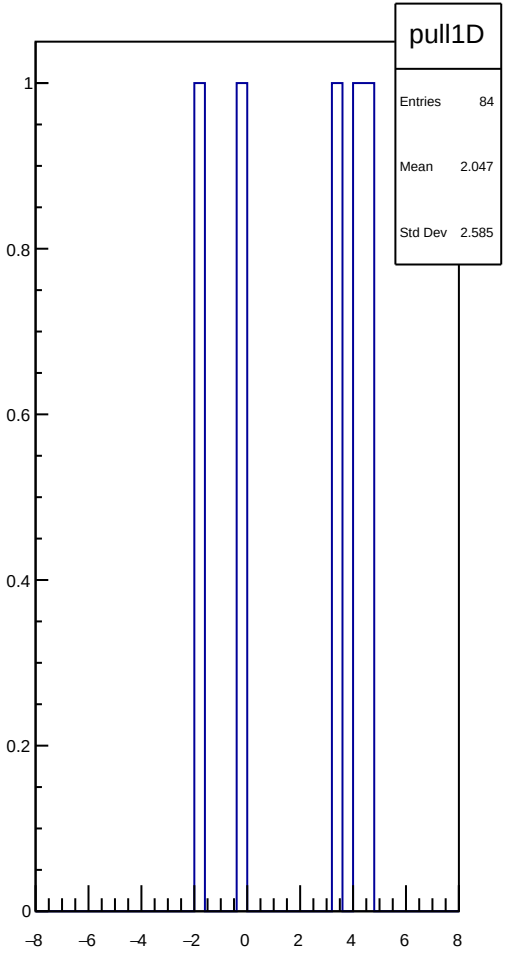

yield_atr2_rms vs run
χ² / ndf 1.437e+05 / 83
p0 0.0002711 ± 2.228e−07
0.0025
0.002
0.0015
0.001
0.0005

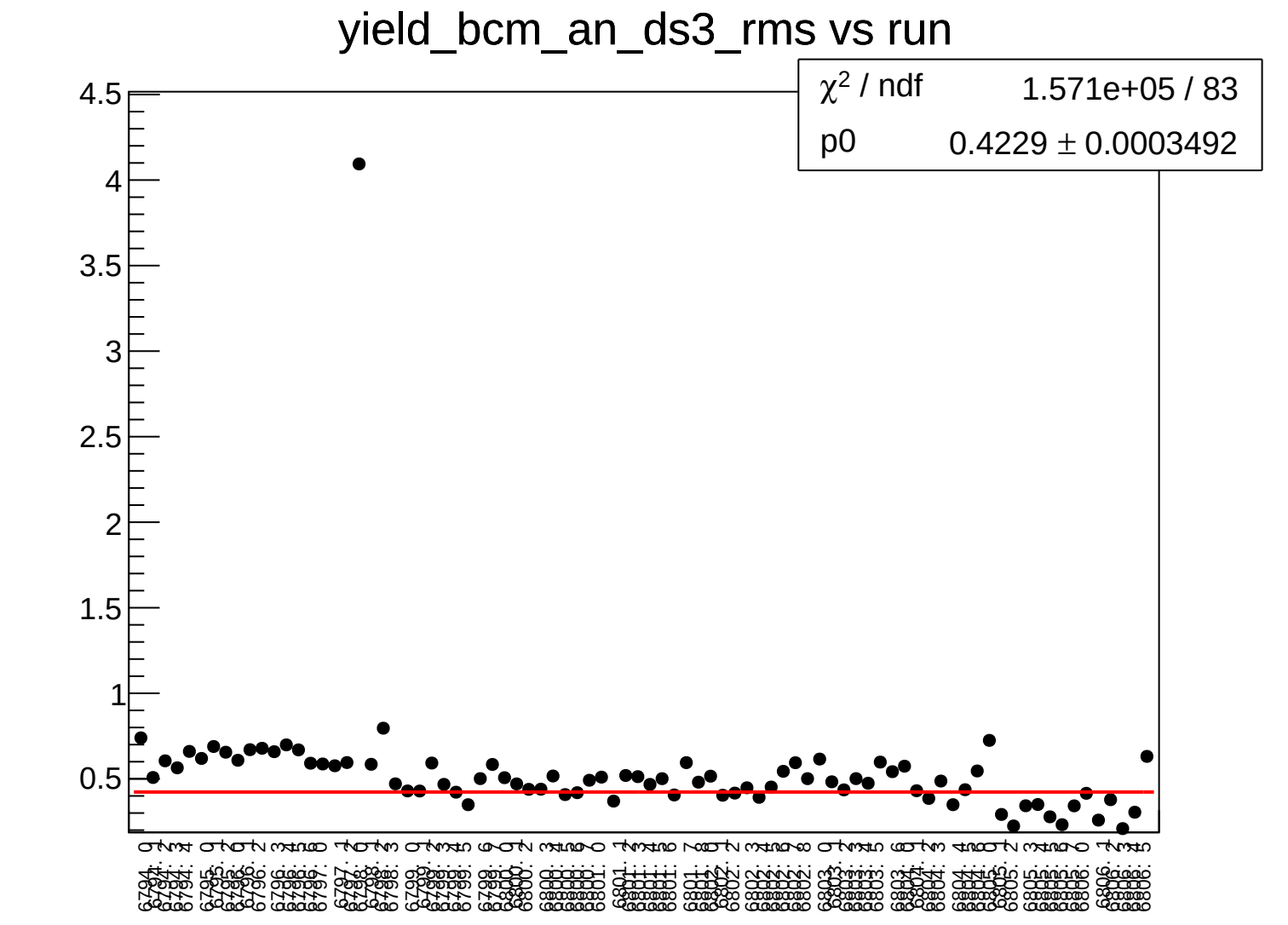

yield_bcm_an_ds_mean vs run
χ² / ndf 5.277e+05 / 83
p0 148.3 ± 0.0004876
149
148.5
148
147.5
147
146.5
146
145.5
145
pull
Entries 84
Mean −58.66
Std Dev 95.92
150
100
50
0
−50
−100
−150
−200

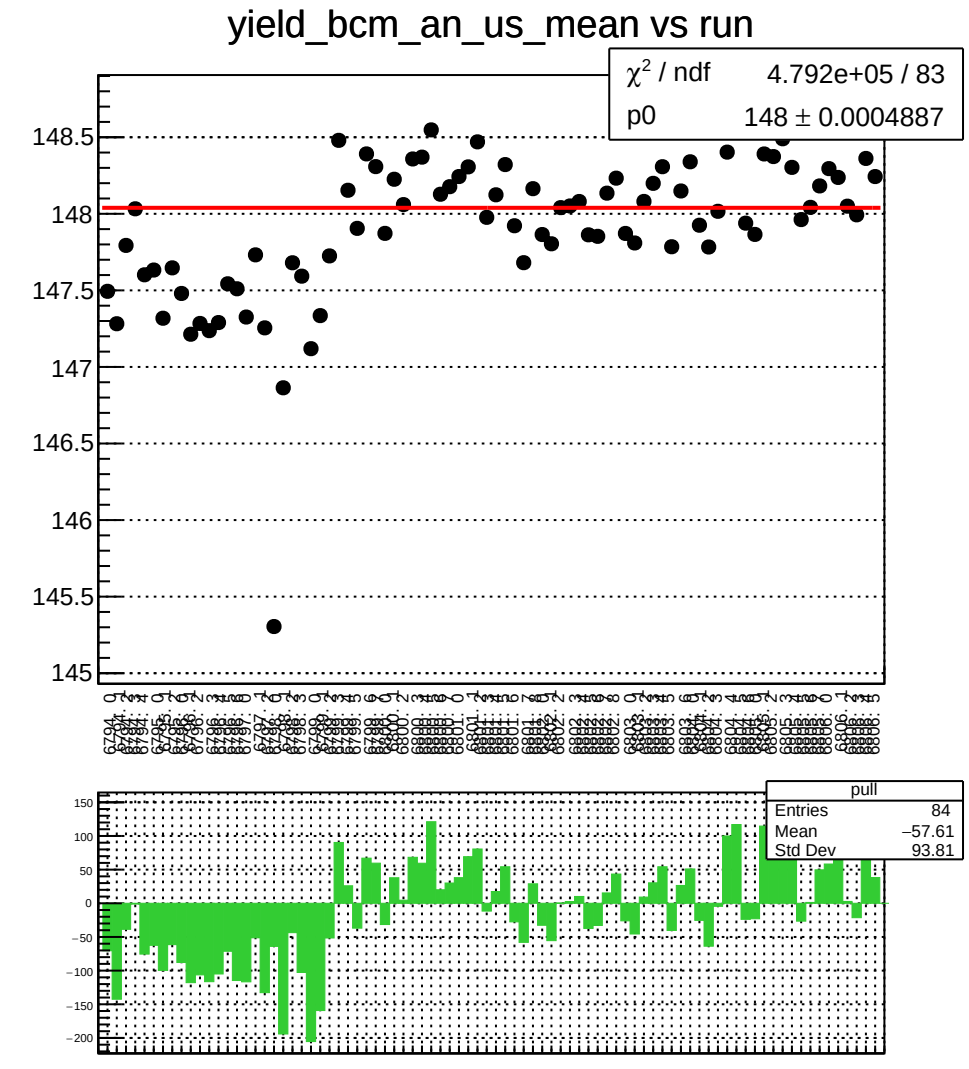

pull1D
Entries 84
Mean 2.392
Std Dev 2.616
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

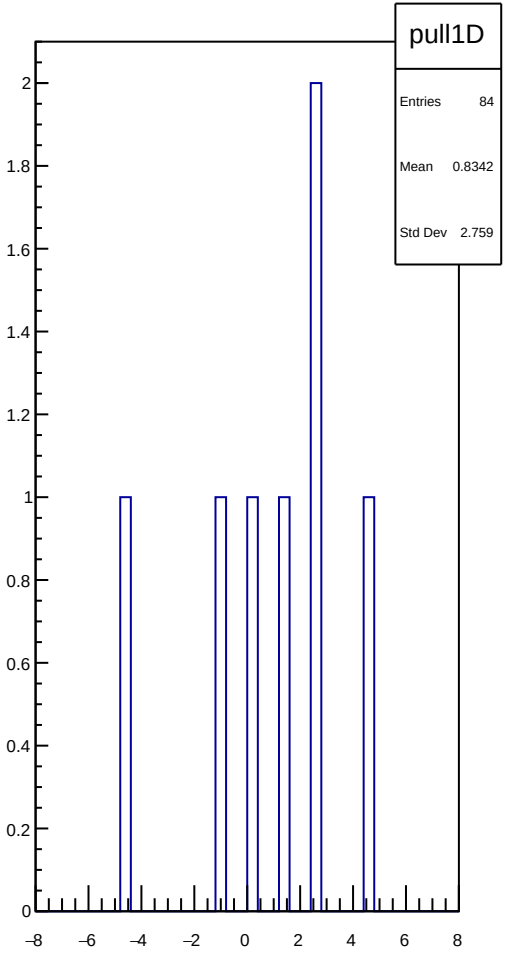

yield_bcm_an_ds_rms vs run
χ² / ndf 1.575e+05 / 83
p0 0.4175 ± 0.0003448
4
3.5
3
2.5
2
1.5
1
0.5

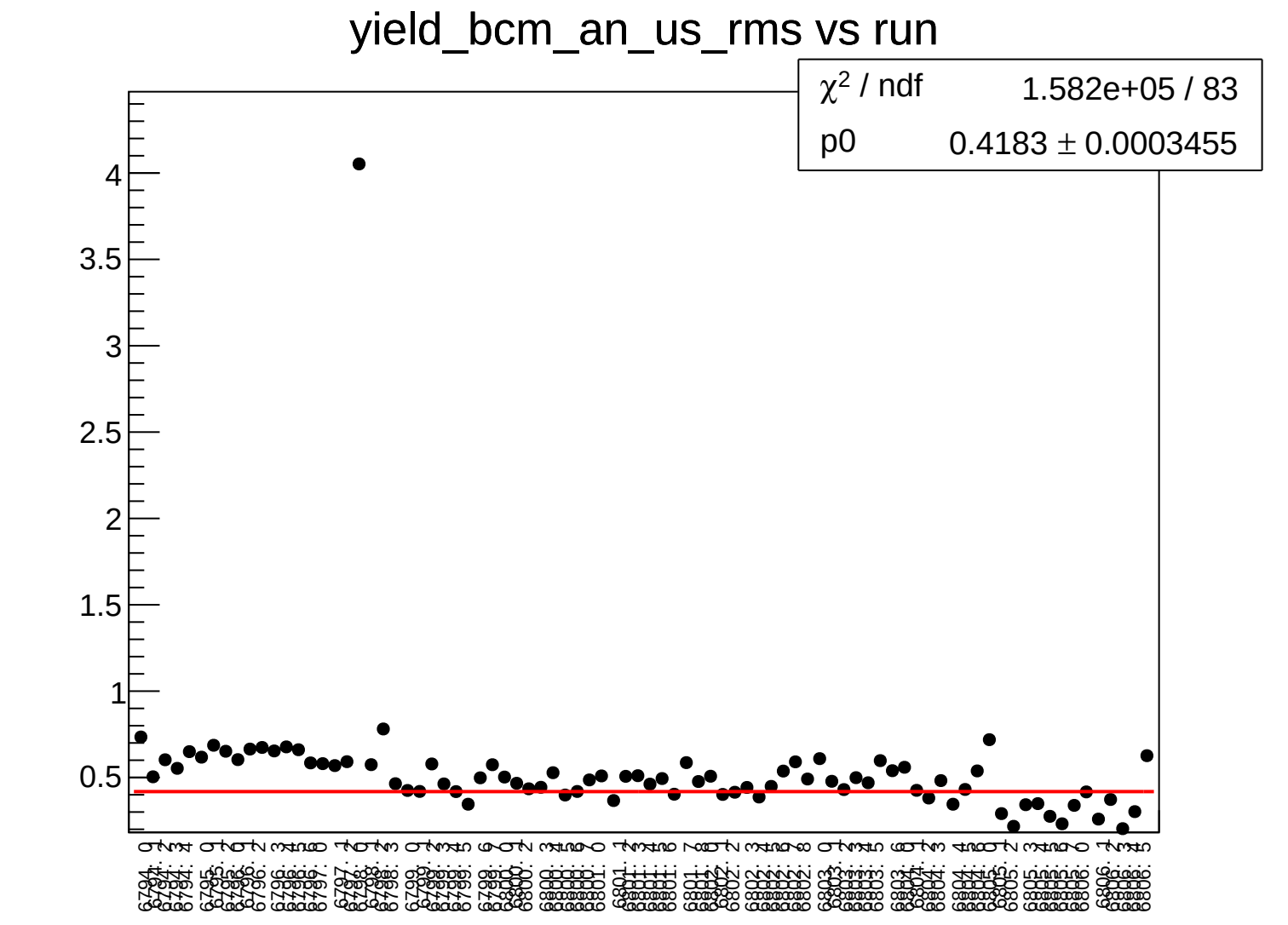

yield_bcm_an_ds3_mean vs run
χ² / ndf 5.3e+05 / 83
p0 149 ± 0.0004938
149.5
149
148.5
148
147.5
147
146.5
146
pull
Entries 84
Mean −58.74
Std Dev 95.71
150
100
50
0
−50
−100
−150
−200

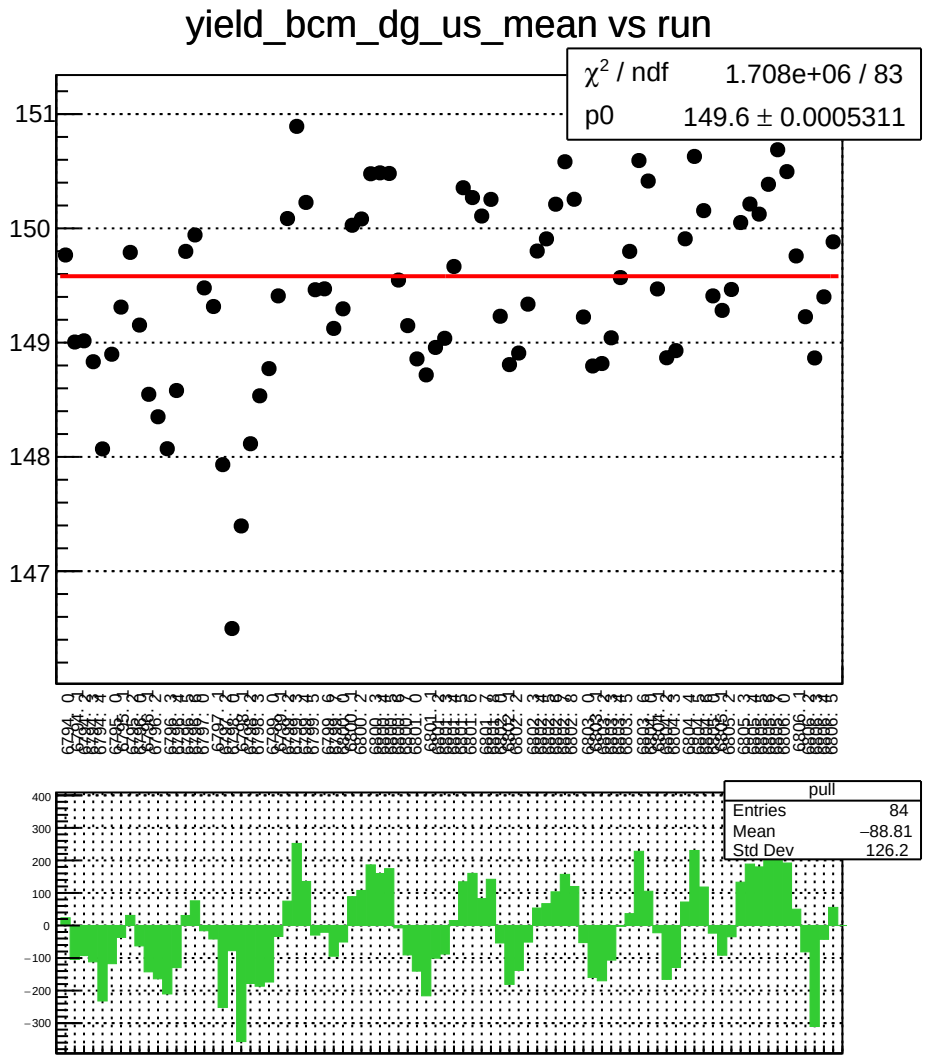

pull1D
Entries 84
Mean 2.047
Std Dev 2.585
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

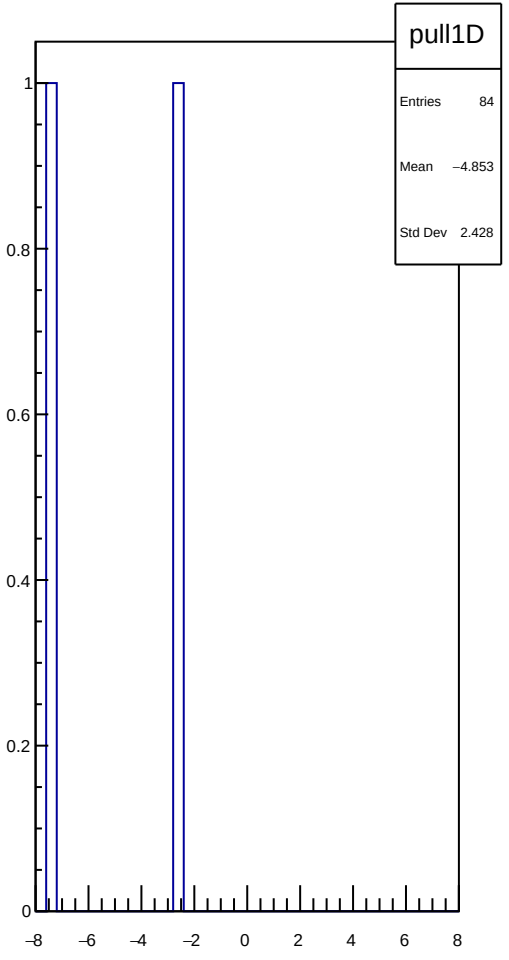

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.571e+05 / 83
p0 0.4229 ± 0.0003492
4.5
4
3.5
3
2.5
2
1.5
1
0.5

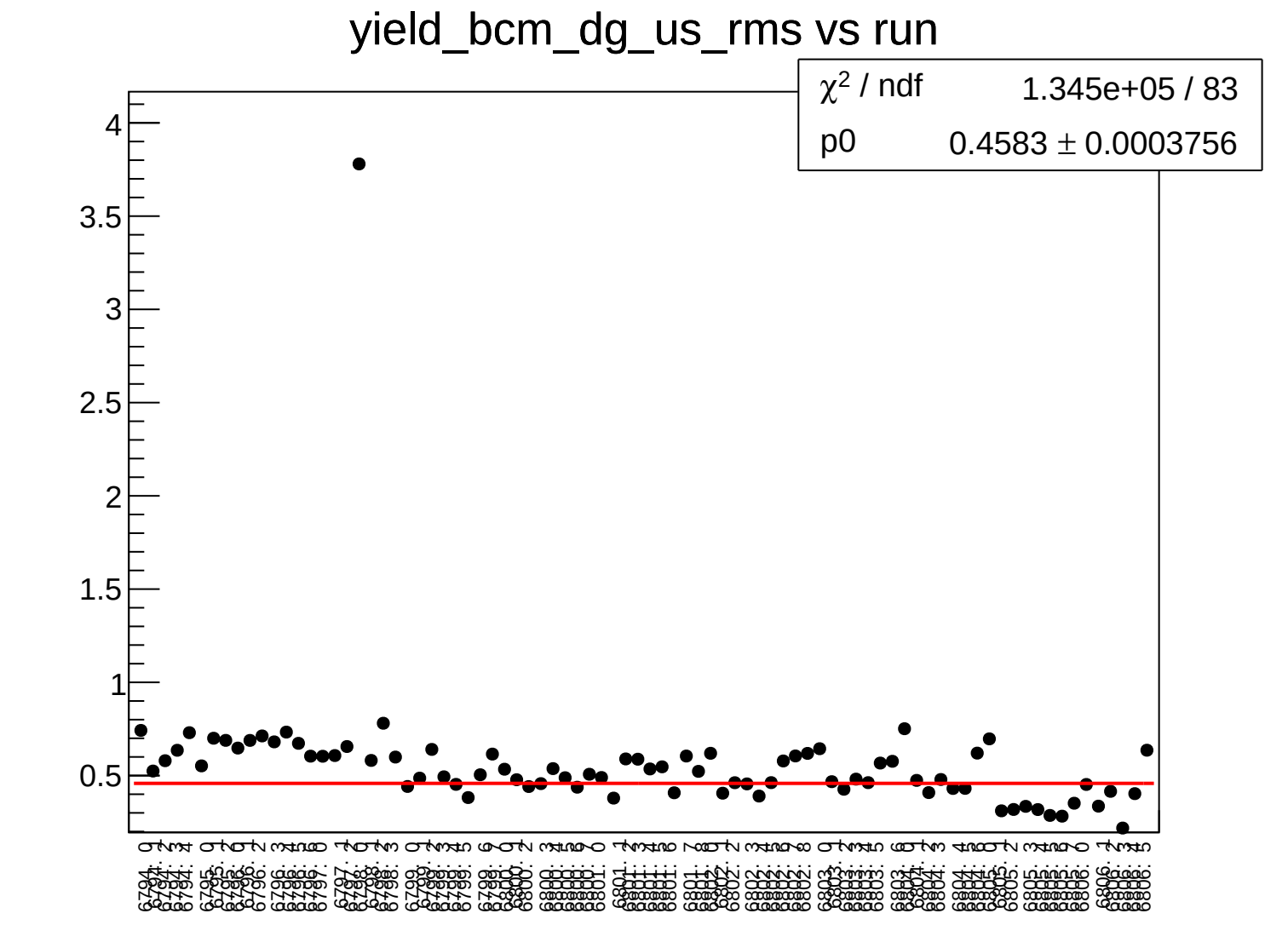

yield_bcm_an_us_mean vs run
χ² / ndf 4.792e+05 / 83
p0 148 ± 0.0004887
148.5
148
147.5
147
146.5
146
145.5
145
pull
Entries 84
Mean −57.61
Std Dev 93.81
150
100
50
0
−50
−100
−150
−200

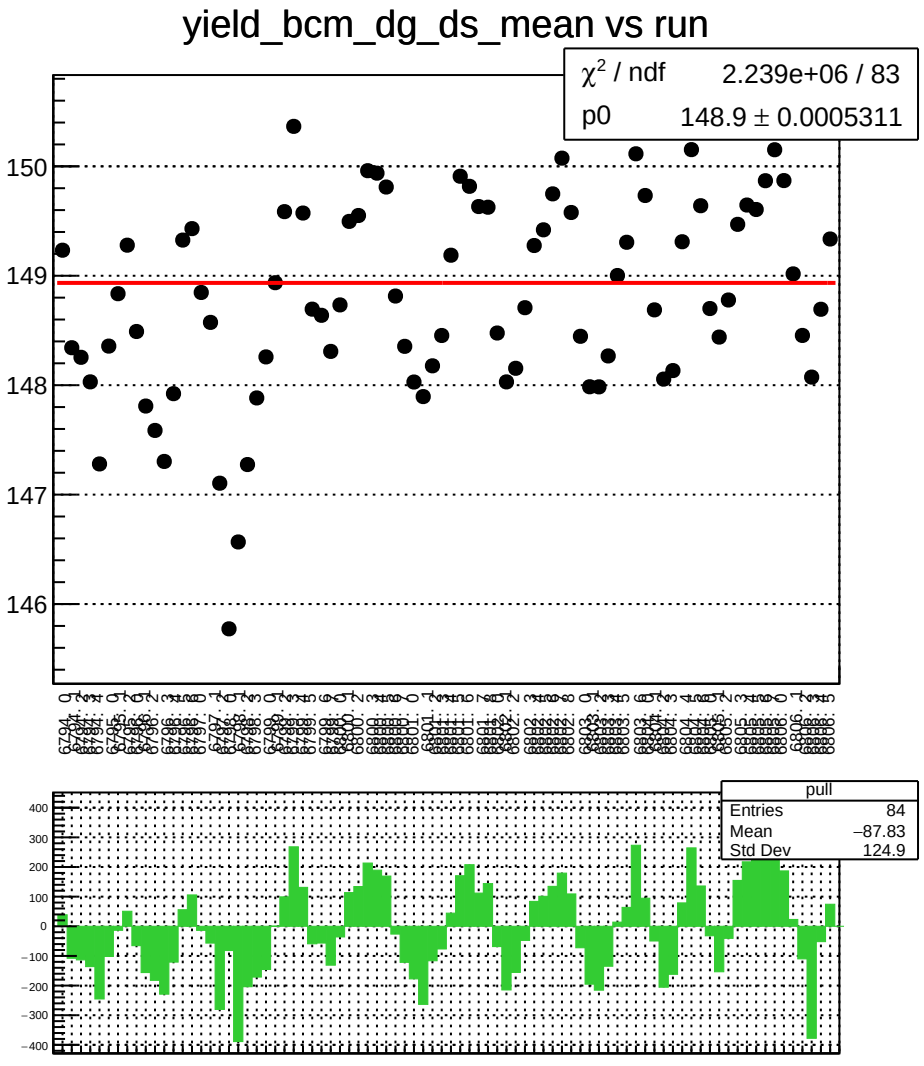

pull1D
Entries 84
Mean 0.8342
Std Dev 2.759
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

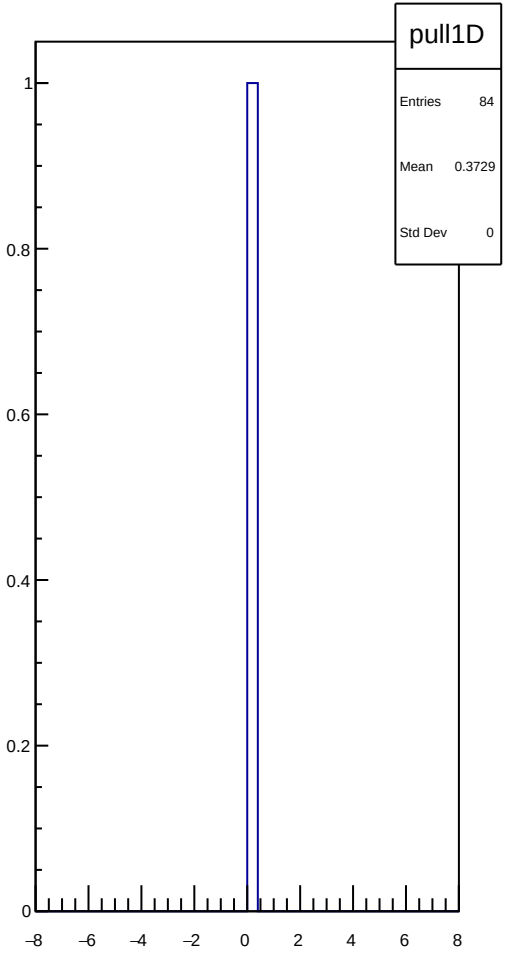

yield_bcm_an_us_rms vs run
χ² / ndf 1.582e+05 / 83
p0 0.4183 ± 0.0003455
4
3.5
3
2.5
2
1.5
1
0.5

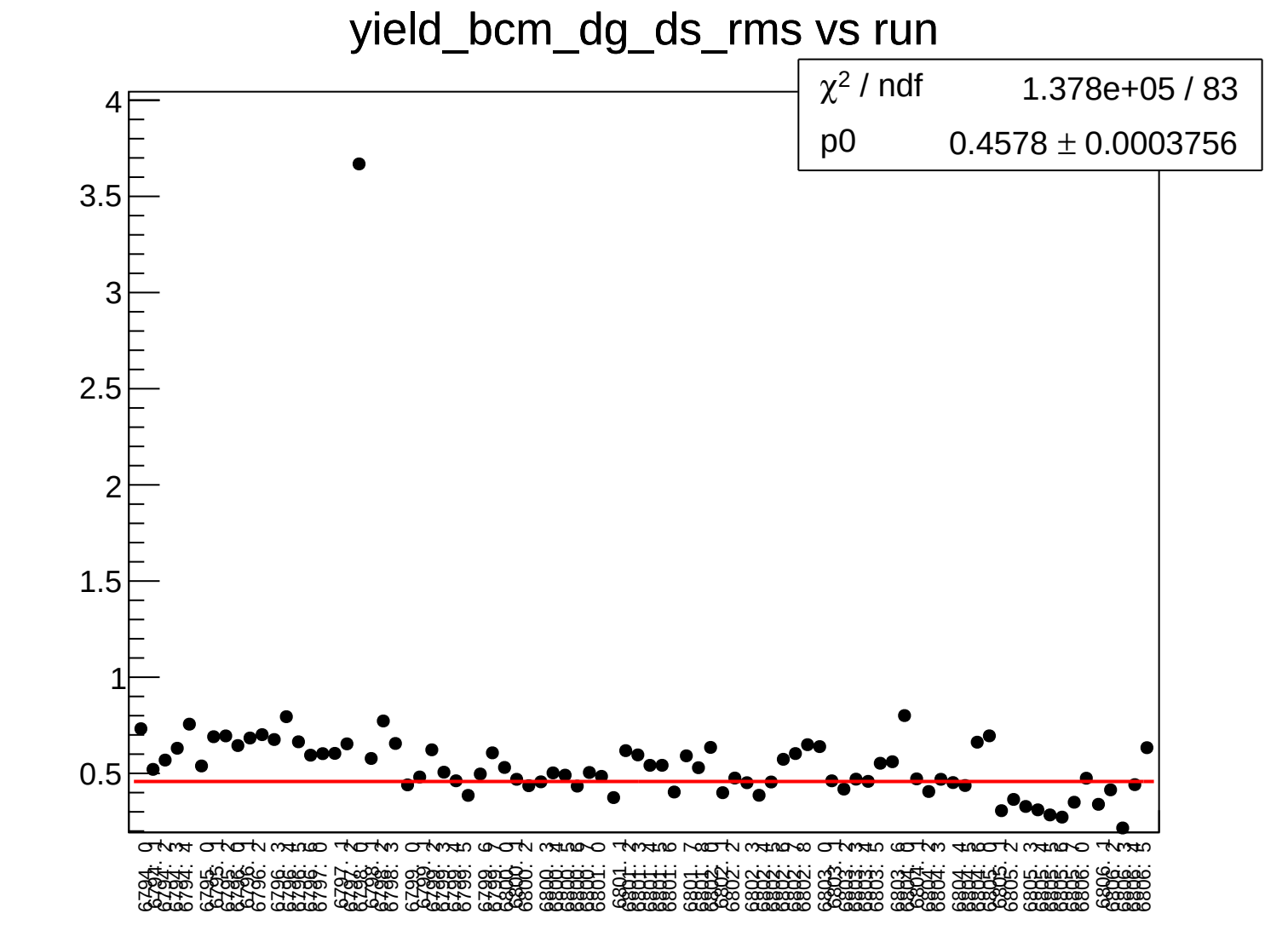

yield_bcm_dg_us_mean vs run
χ² / ndf 1.708e+06 / 83
p0 149.6 ± 0.0005311
151
150
149
148
147
pull
Entries 84
Mean −88.81
Std Dev 126.2
400
300
200
100
0
−100
−200
−300

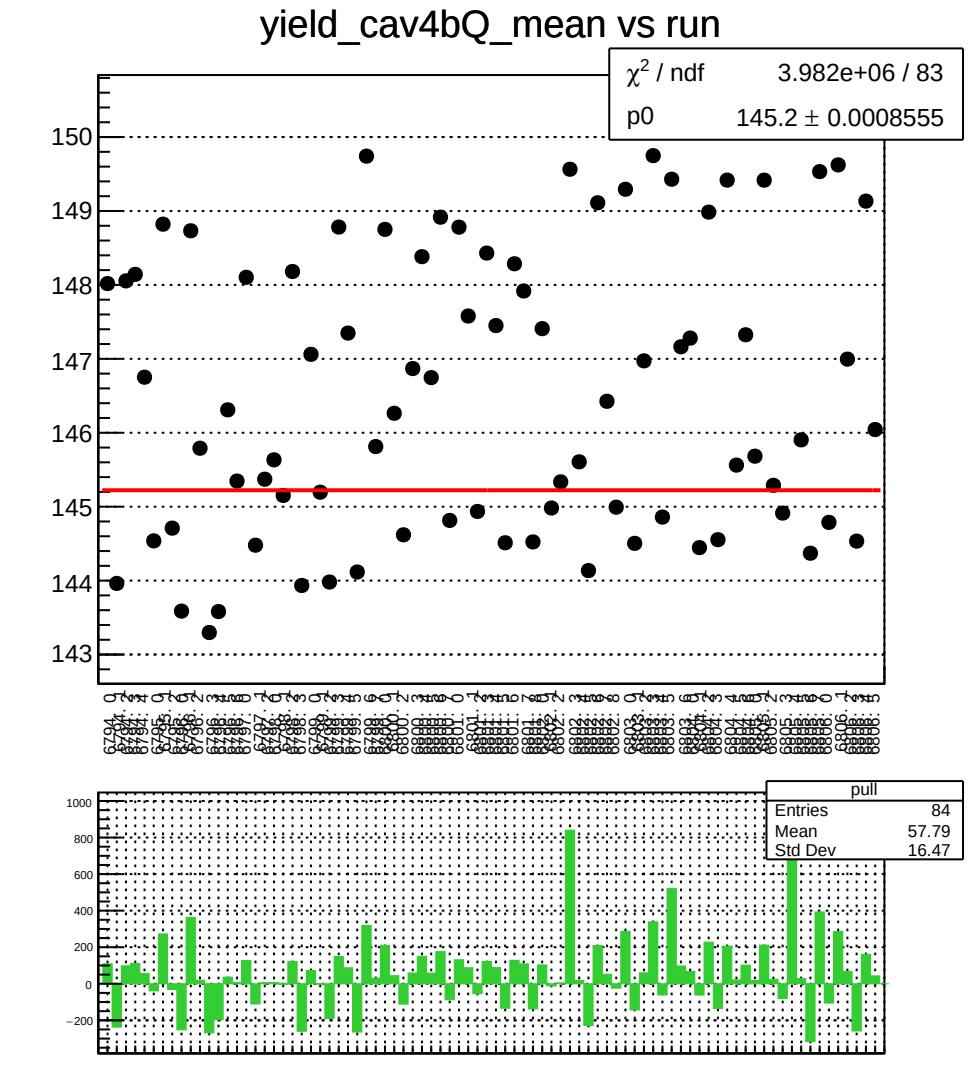

pull1D
Entries 84
Mean −4.853
Std Dev 2.428
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

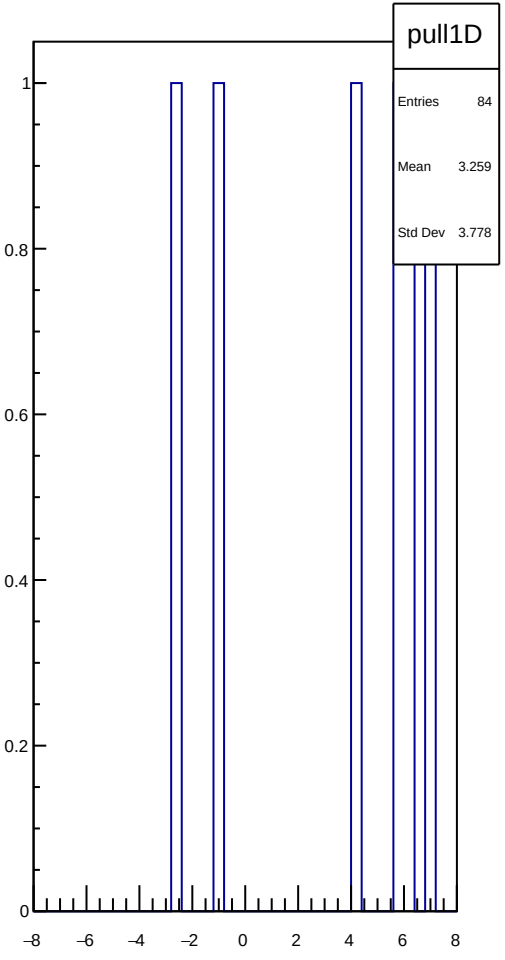

yield_bcm_dg_us_rms vs run
χ² / ndf 1.345e+05 / 83
p0 0.4583 ± 0.0003756
4
3.5
3
2.5
2
1.5
1
0.5

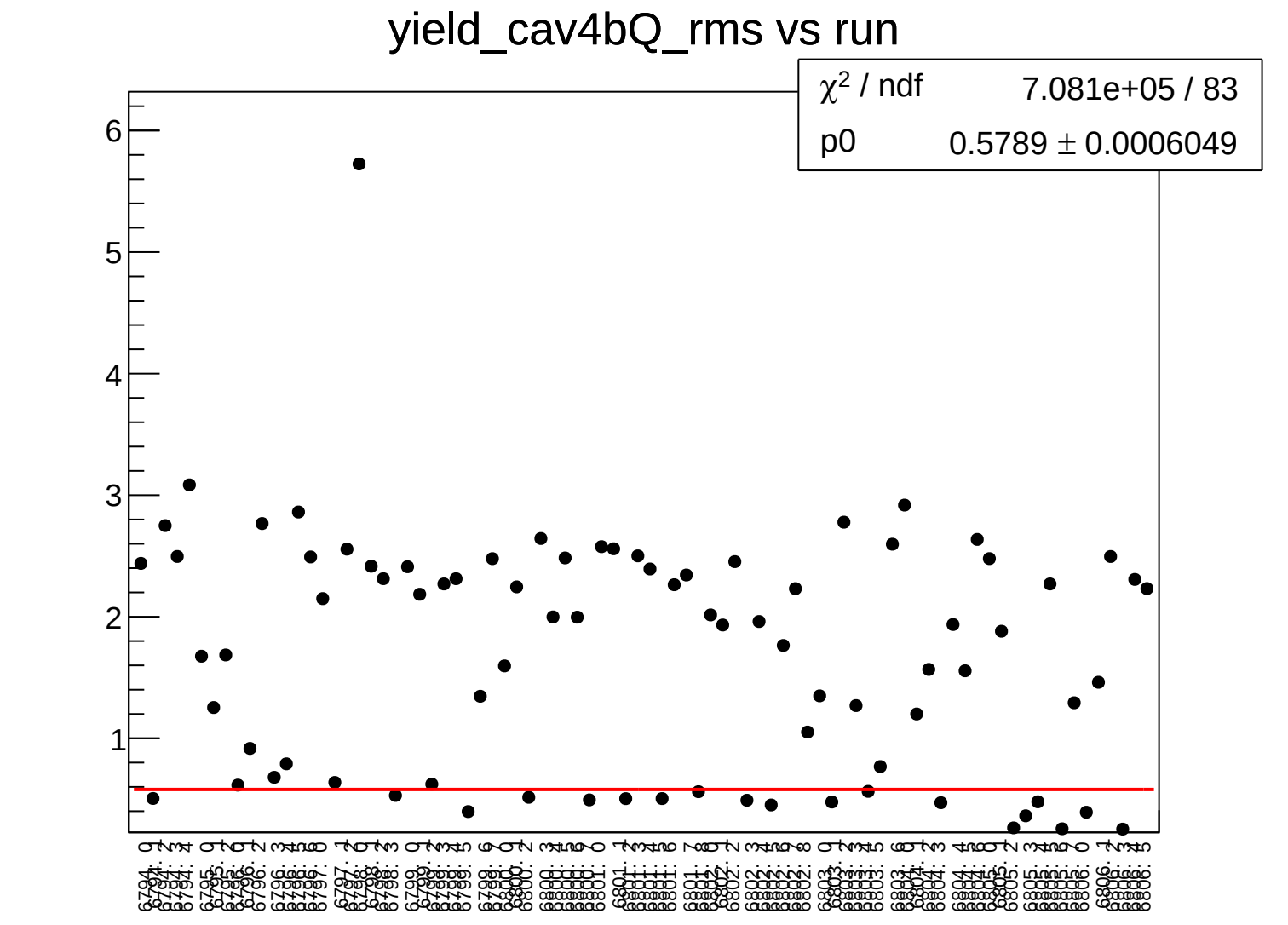

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.239e+06 / 83
p0 148.9 ± 0.0005311
150
149
148
147
146
pull
Entries 84
Mean −87.83
Std Dev 124.9
400
300
200
100
0
−100
−200
−300
−400

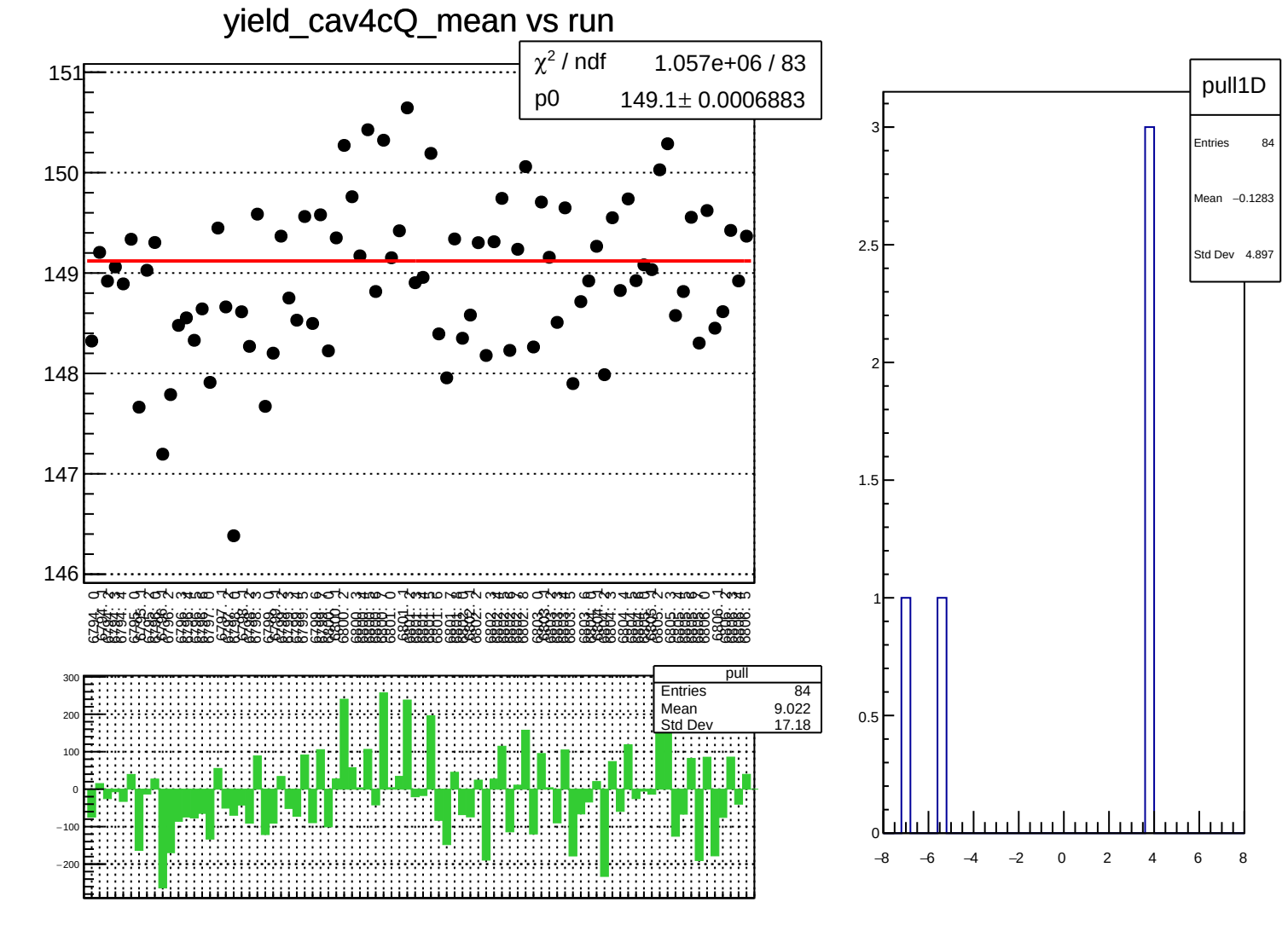

pull1D
Entries 84
Mean 0.3729
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

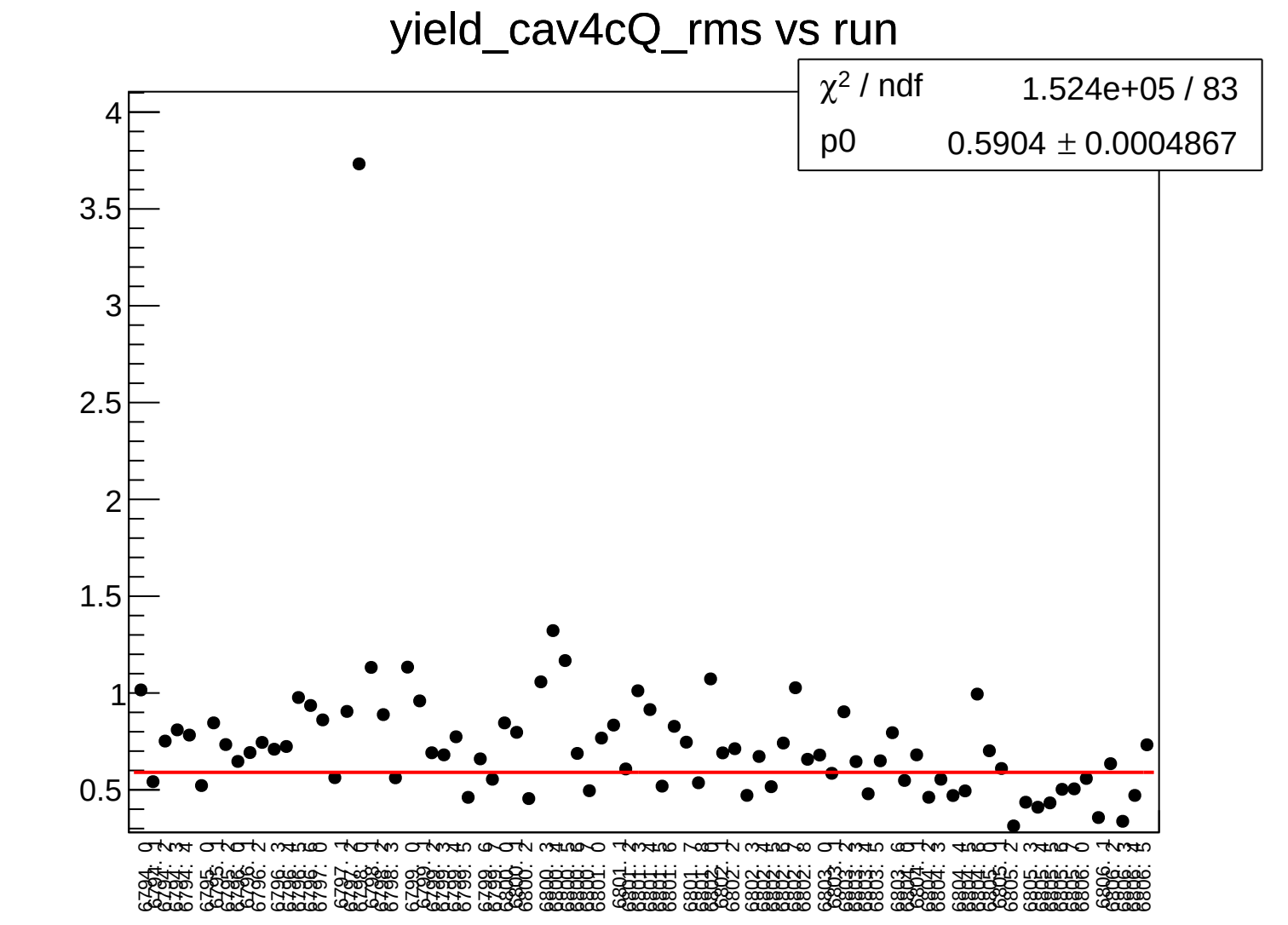

yield_bcm_dg_ds_rms vs run
χ^2 / ndf 1.378e+05 / 83
p0 0.4578 ± 0.0003756
4
3.5
3
2.5
2
1.5
1
0.5

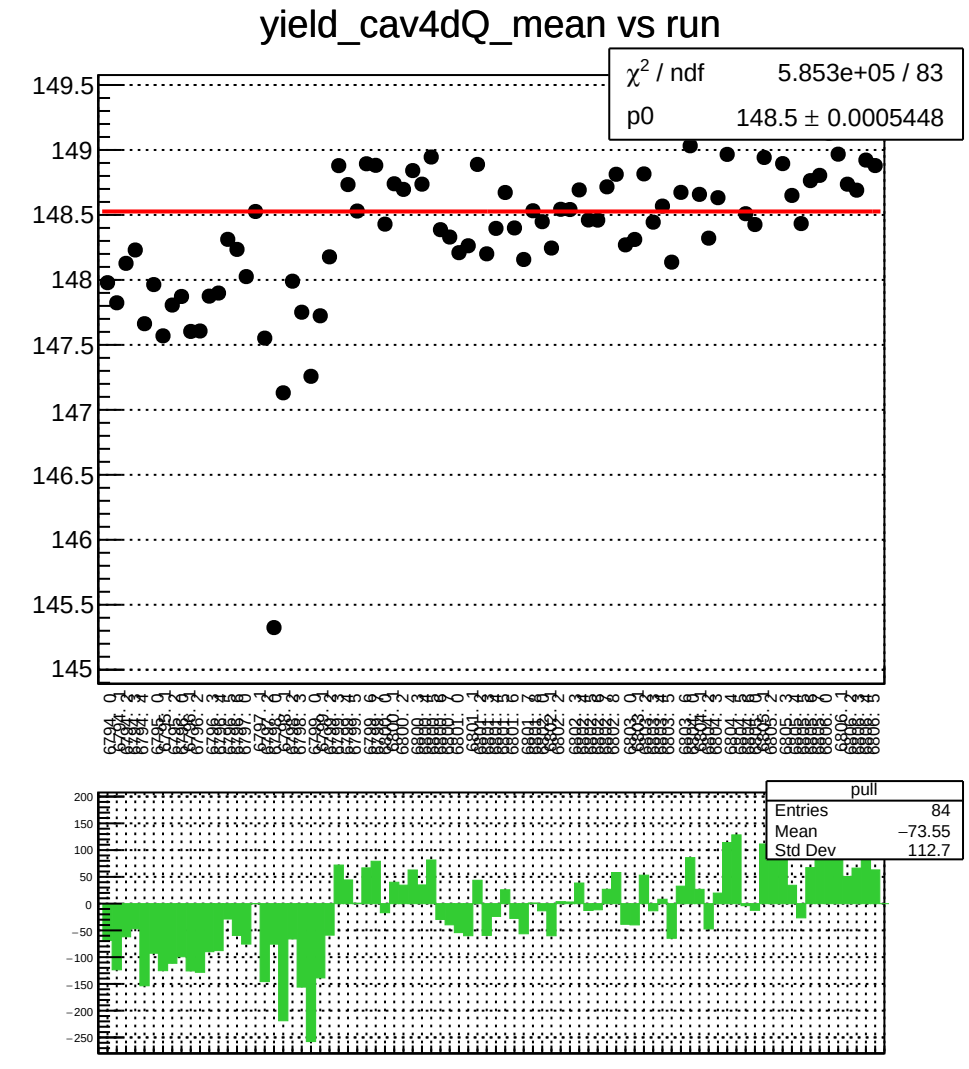

yield_cav4bQ_mean vs run
χ² / ndf 3.982e+06 / 83
p0 145.2 ± 0.0008555
150
149
148
147
146
145
144
143
pull
Entries 84
Mean 57.79
Std Dev 16.47
1000
800
600
400
200
0
−200

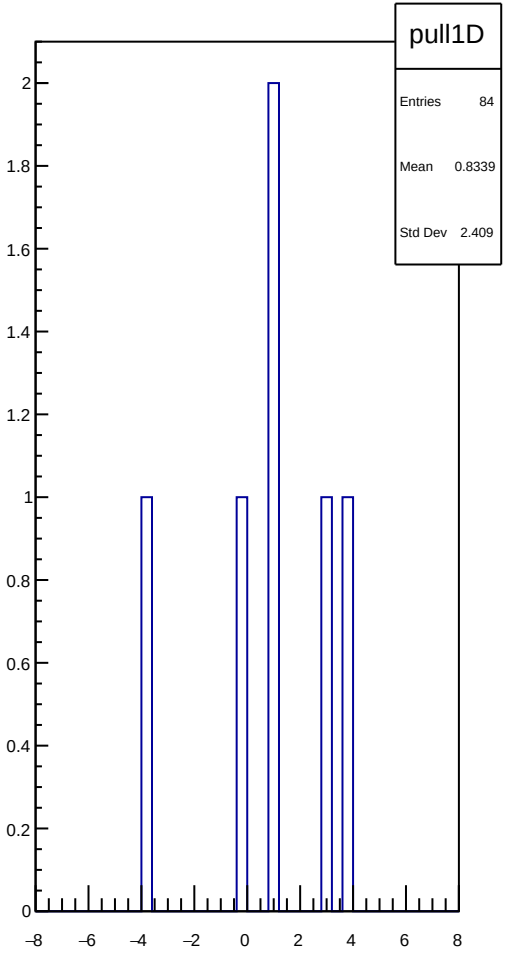

pull1D
Entries 84
Mean 3.259
Std Dev 3.778
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

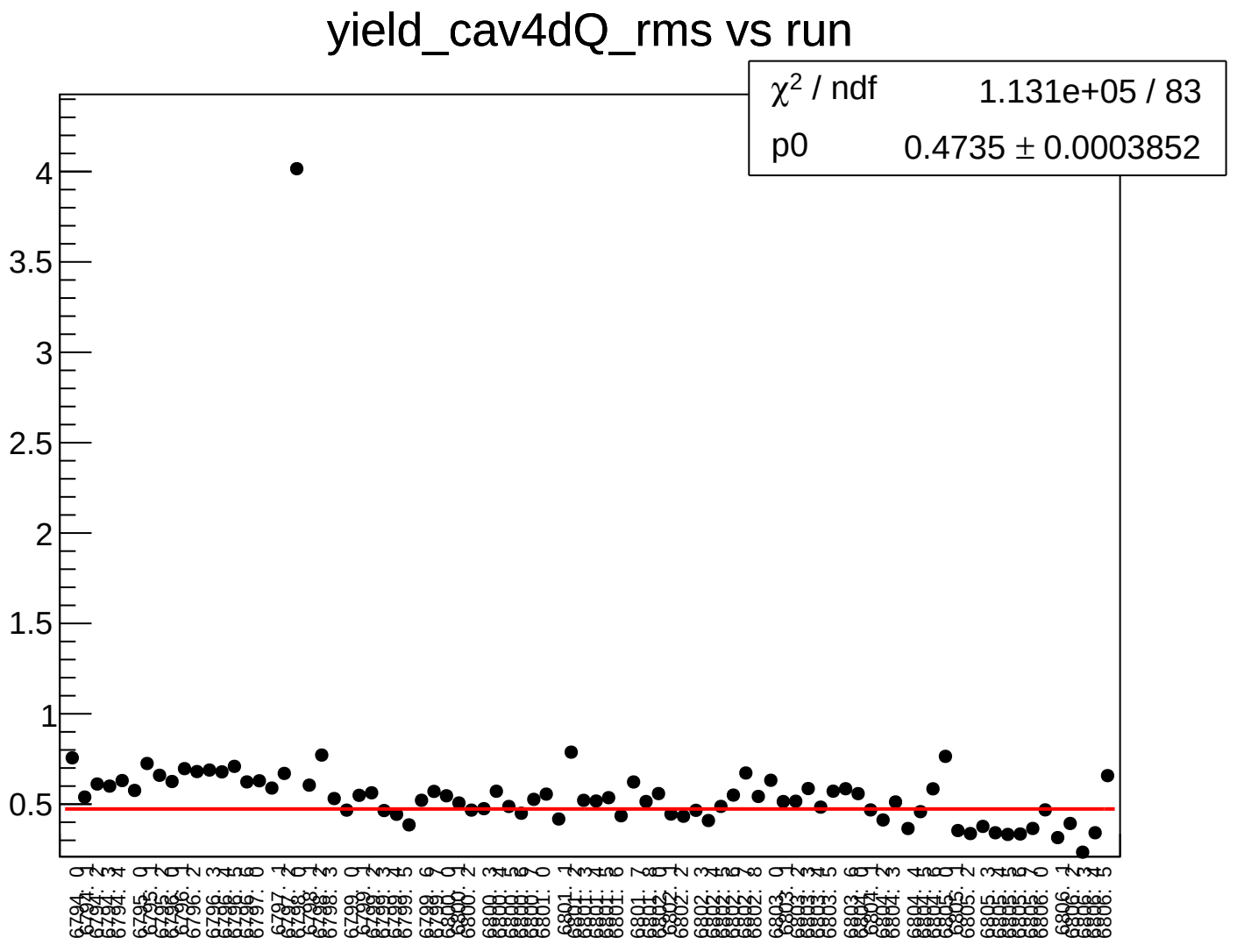

yield_cav4bQ_rms vs run
χ^2 / ndf 7.081e+05 / 83
p0 0.5789 ± 0.0006049
6
5
4
3
2
1

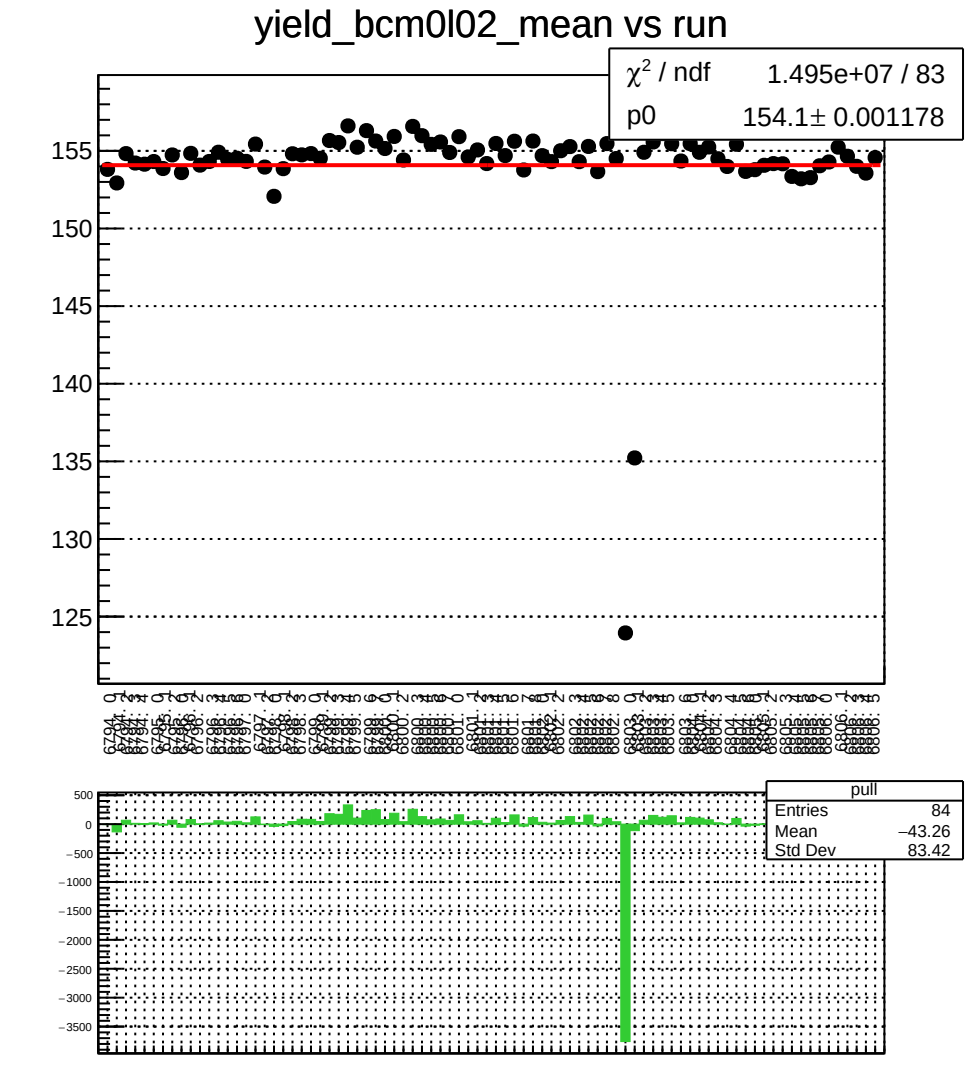

yield_cav4cQ_mean vs run
χ² / ndf 1.057e+06 / 83
p0 149.1± 0.0006883
151
150
149
148
147
146
pull
Entries 84
Mean 9.022
Std Dev 17.18
300
200
100
0
−100
−200
pull1D
Entries 84
Mean −0.1283
Std Dev 4.897
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

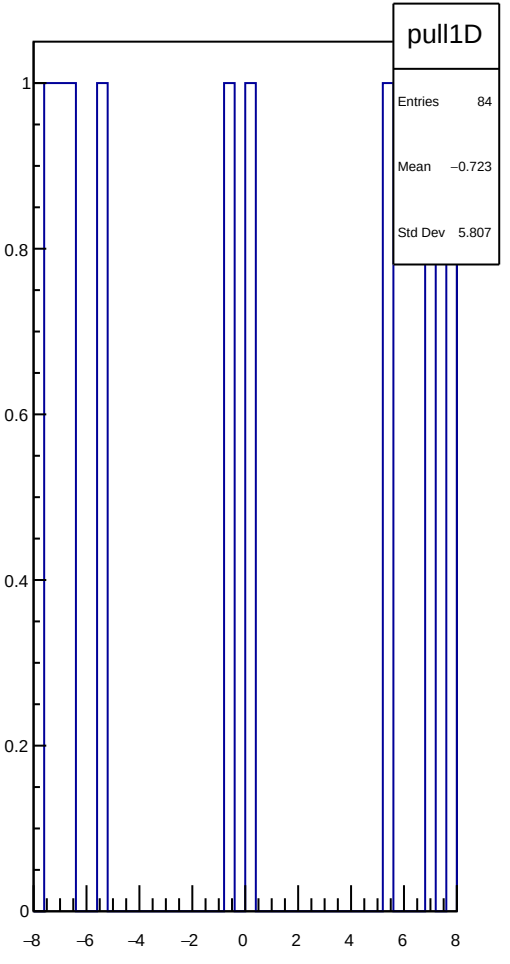

yield_cav4cQ_rms vs run
χ² / ndf 1.524e+05 / 83
p0 0.5904 ± 0.0004867
4
3.5
3
2.5
2
1.5
1
0.5

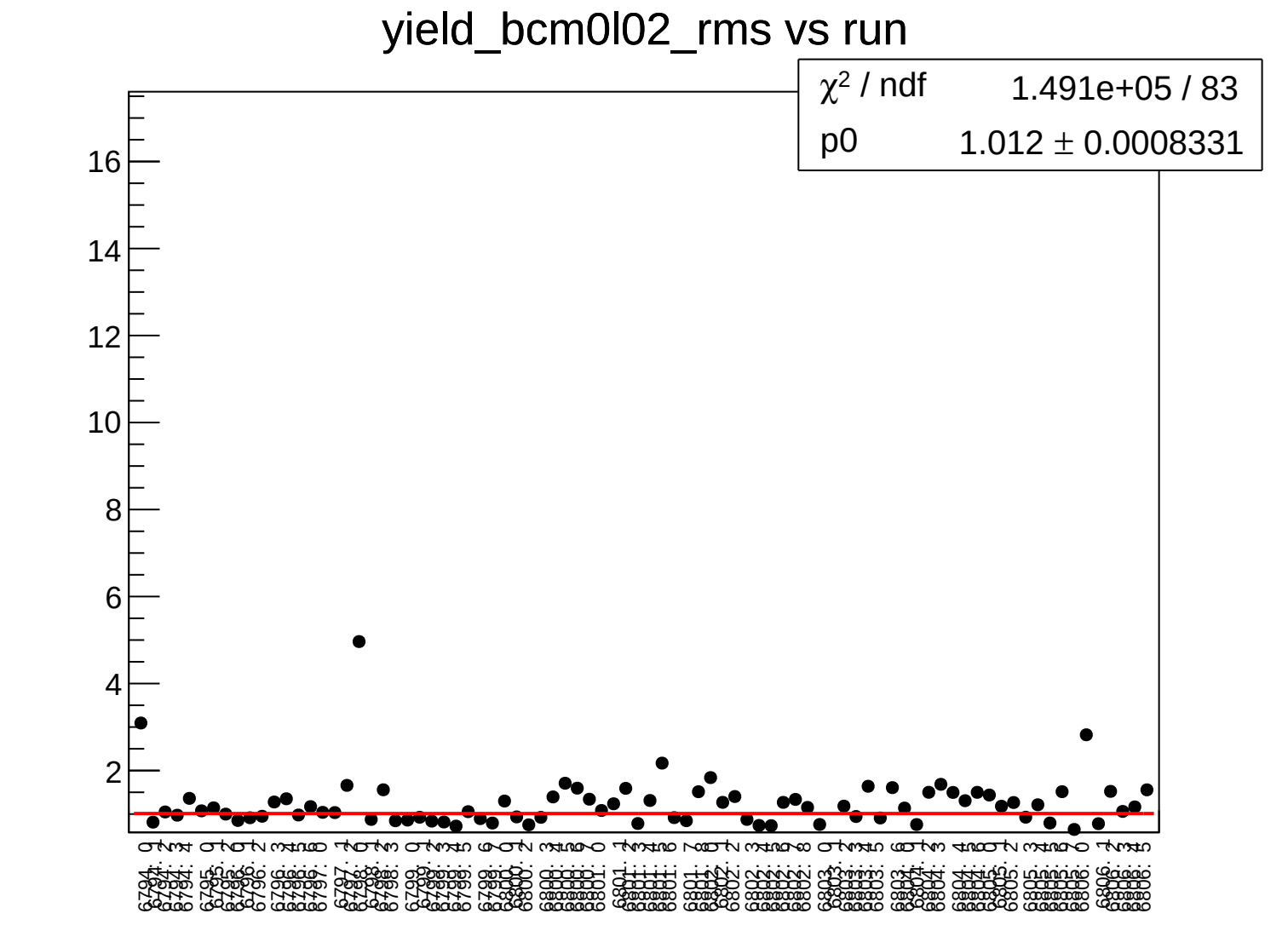

yield_cav4dQ_mean vs run
χ² / ndf 5.853e+05 / 83
p0 148.5 ± 0.0005448
149.5
149
148.5
148
147.5
147
146.5
146
145.5
145
pull
Entries 84
Mean −73.55
Std Dev 112.7
200
150
100
50
0
−50
−100
−150
−200
−250

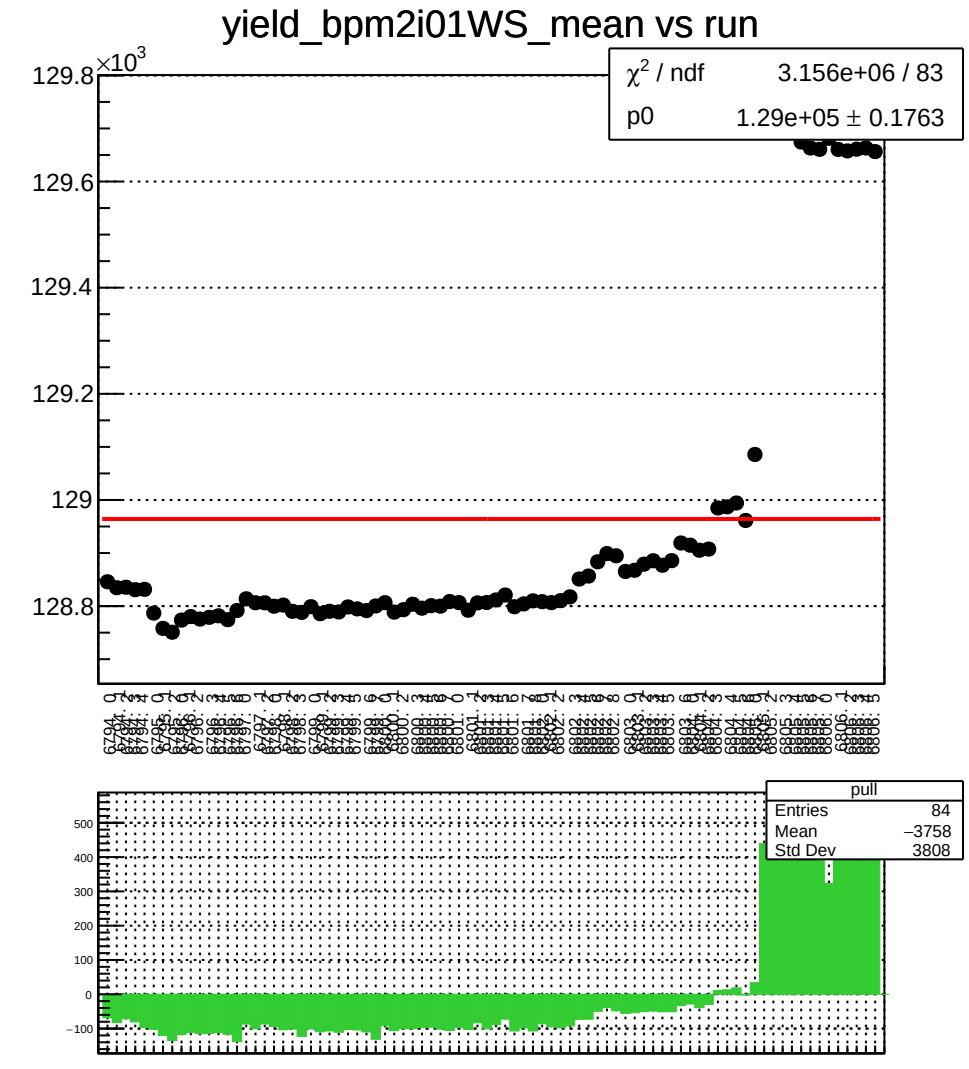

pull1D
Entries 84
Mean 0.8339
Std Dev 2.409
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

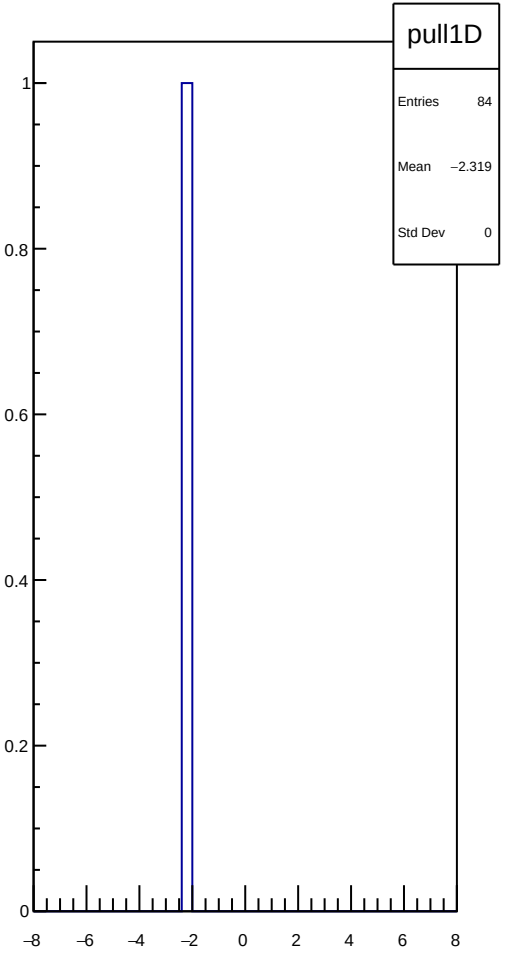

yield_cav4dQ_rms vs run
χ² / ndf 1.131e+05 / 83
p0 0.4735 ± 0.0003852
4
3.5
3
2.5
2
1.5
1
0.5

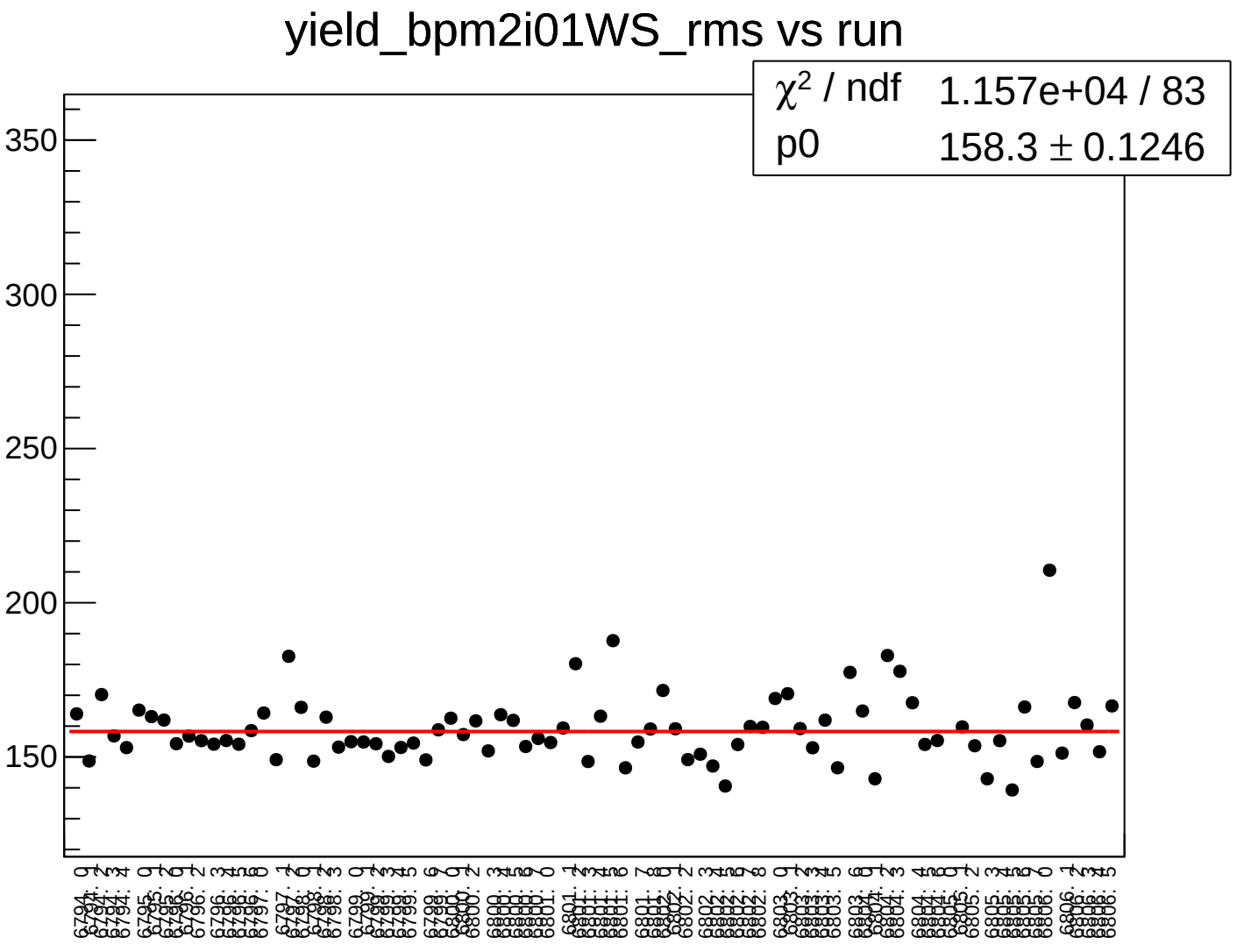

yield_bcm0l02_mean vs run
χ² / ndf 1.495e+07 / 83
p0 154.1± 0.001178
155
150
145
140
135
130
125
pull
Entries 84
Mean −43.26
Std Dev 83.42
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

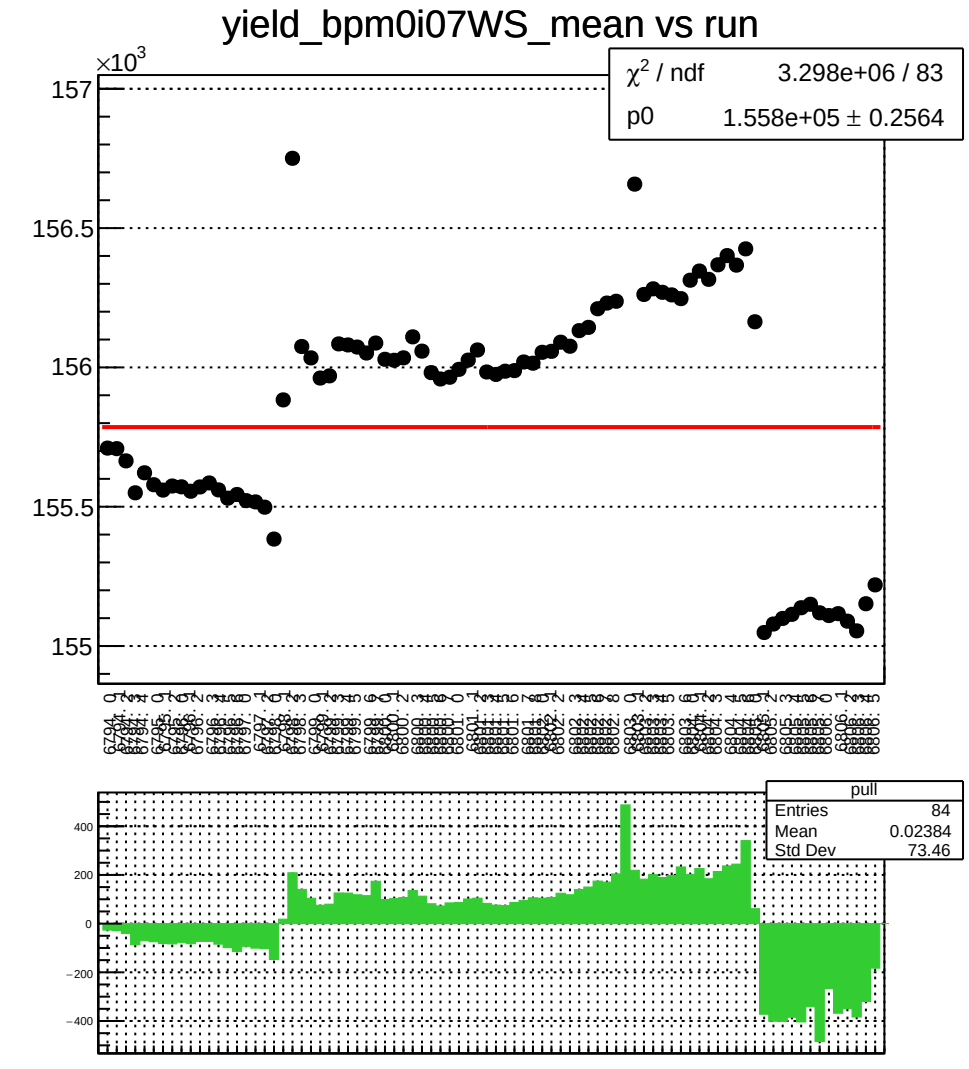

pull1D
Entries 84
Mean −0.723
Std Dev 5.807
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

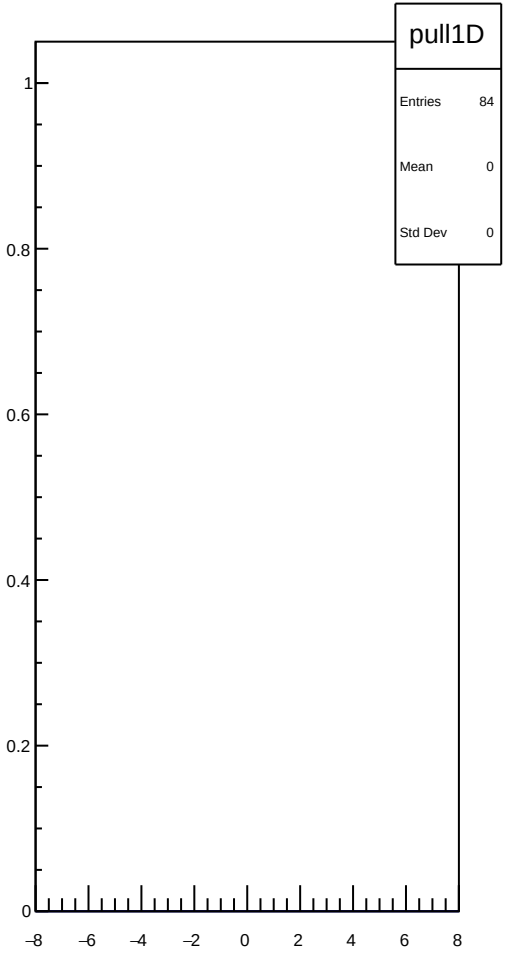

yield_bcm0l02_rms vs run
χ² / ndf 1.491e+05 / 83
p0 1.012 ± 0.0008331
16
14
12
10
8
6
4
2

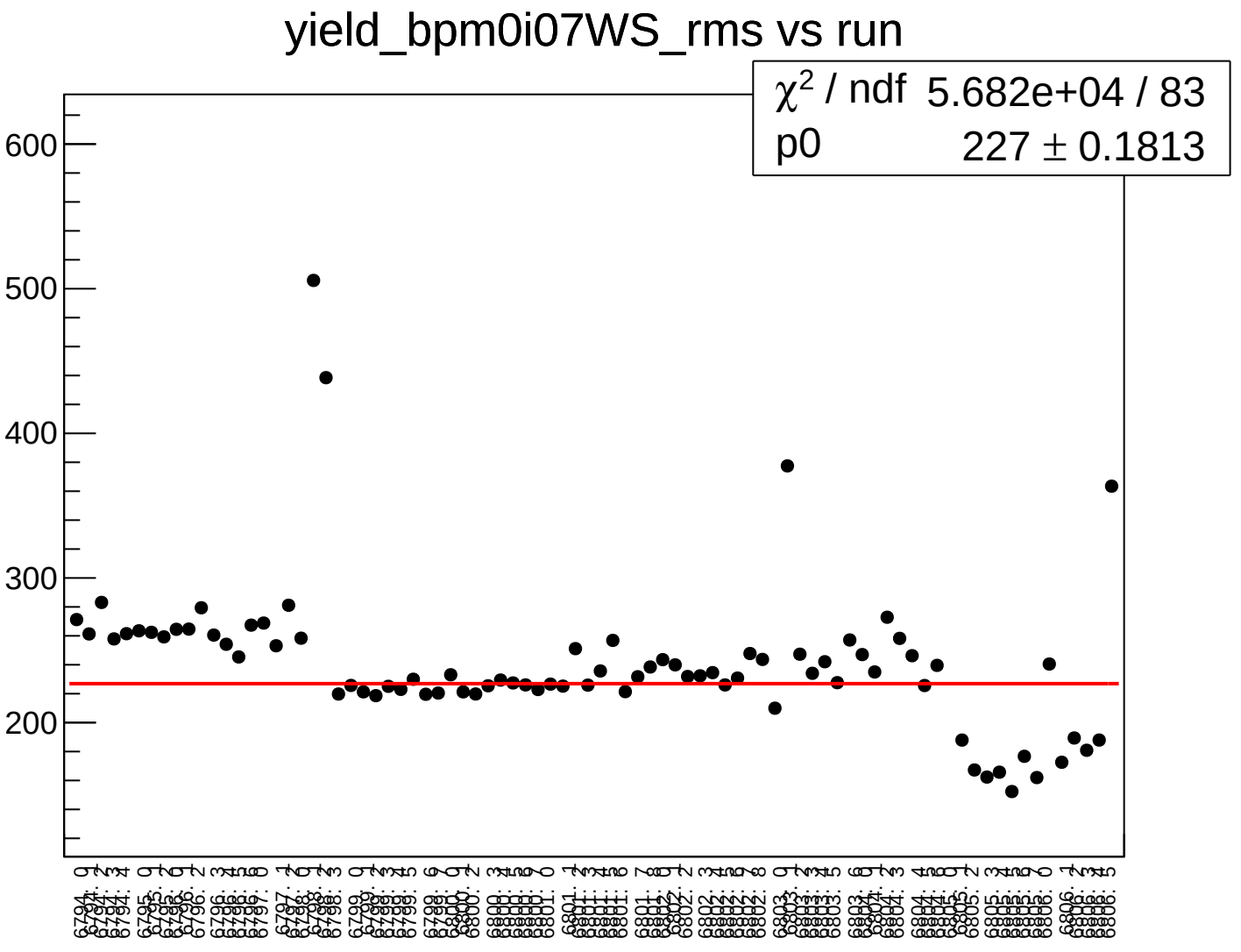

yield_bpm2i01WS_mean vs run
×10^3
129.8
129.6
129.4
129.2
129
128.8
χ² / ndf 3.156e+06 / 83
p0 1.29e+05 ± 0.1763
pull
Entries 84
Mean −3758
Std Dev 3808
500
400
300
200
100
0
−100

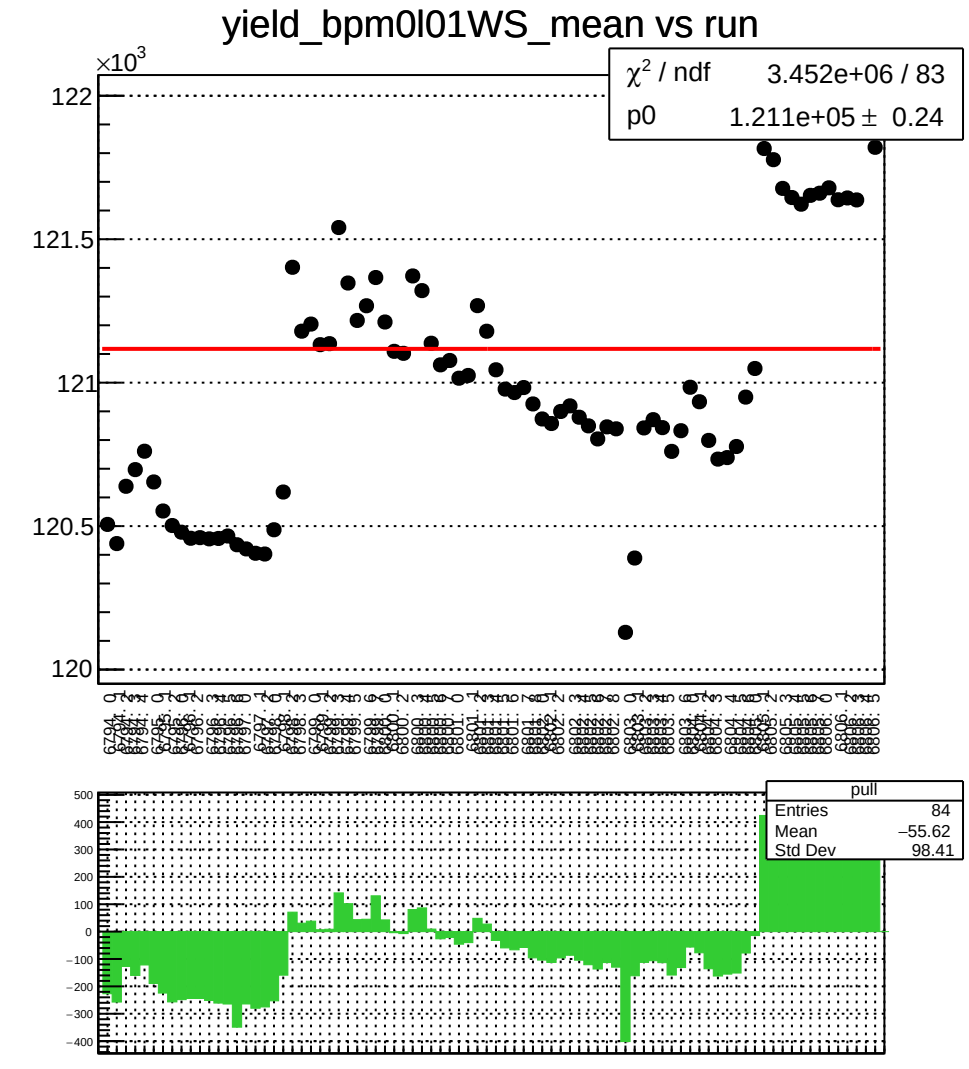

pull1D
Entries 84
Mean −2.319
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

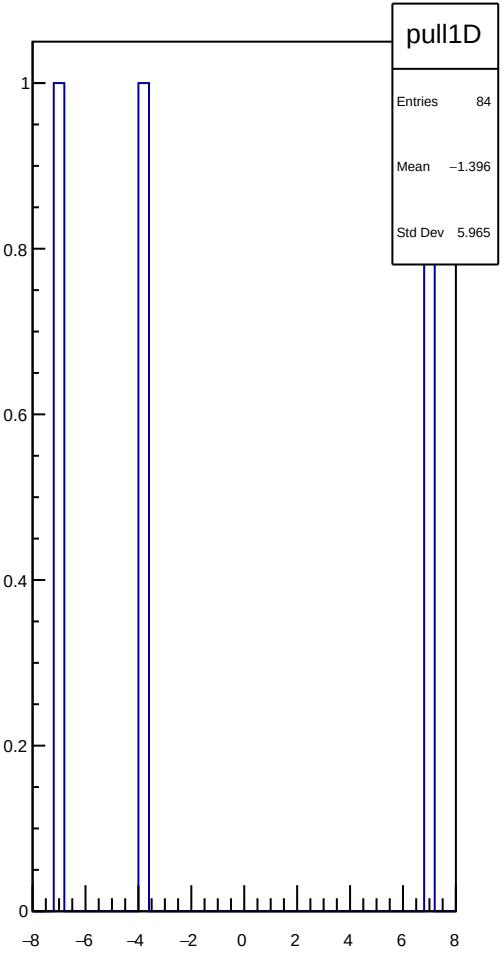

yield_bpm2i01WS_rms vs run
χ² / ndf 1.157e+04 / 83
p0 158.3 ± 0.1246
350
300
250
200
150

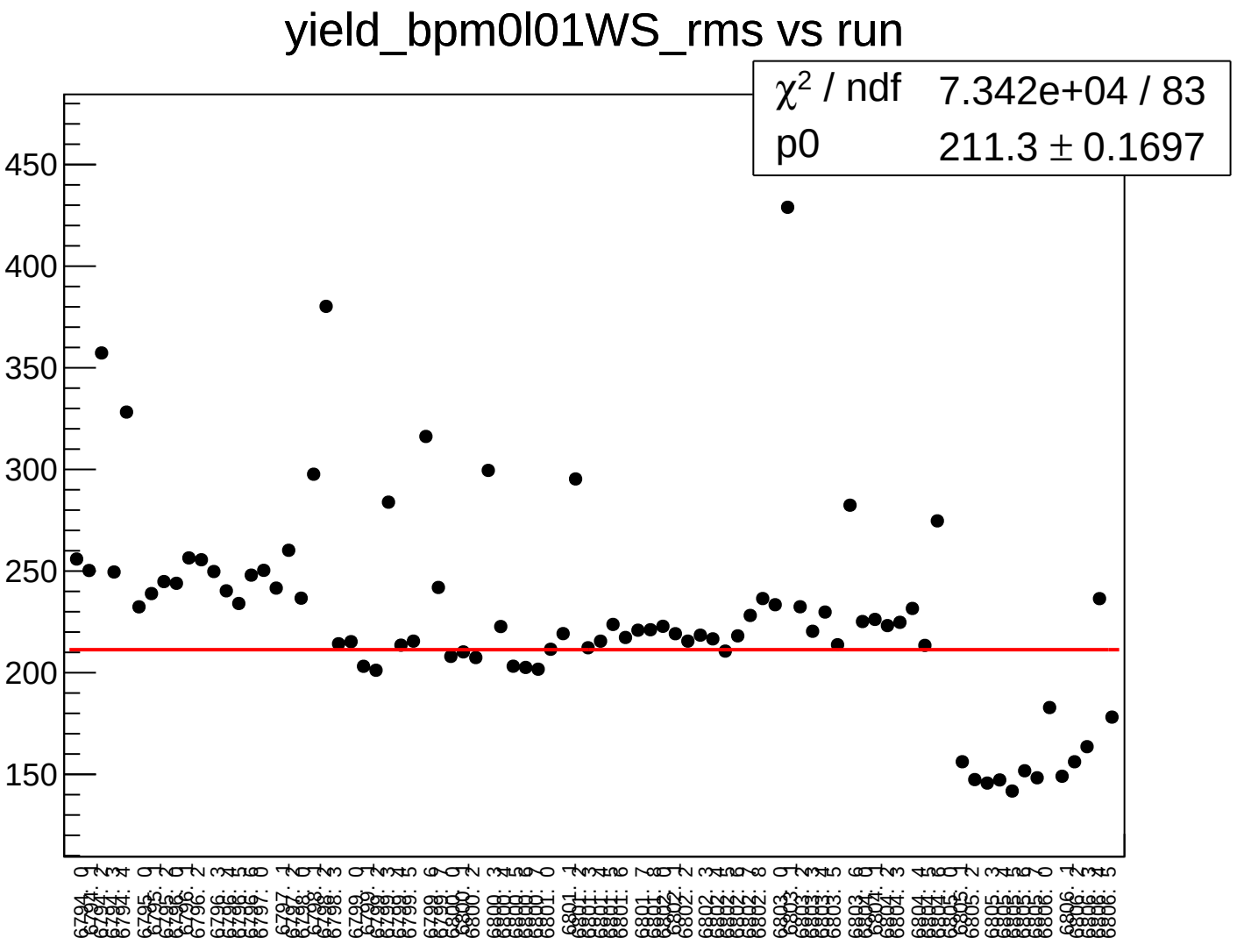

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 3.298e+06 / 83
p0 1.558e+05 ± 0.2564
157
156.5
156
155.5
155
pull
Entries 84
Mean 0.02384
Std Dev 73.46
400
200
0
−200
−400

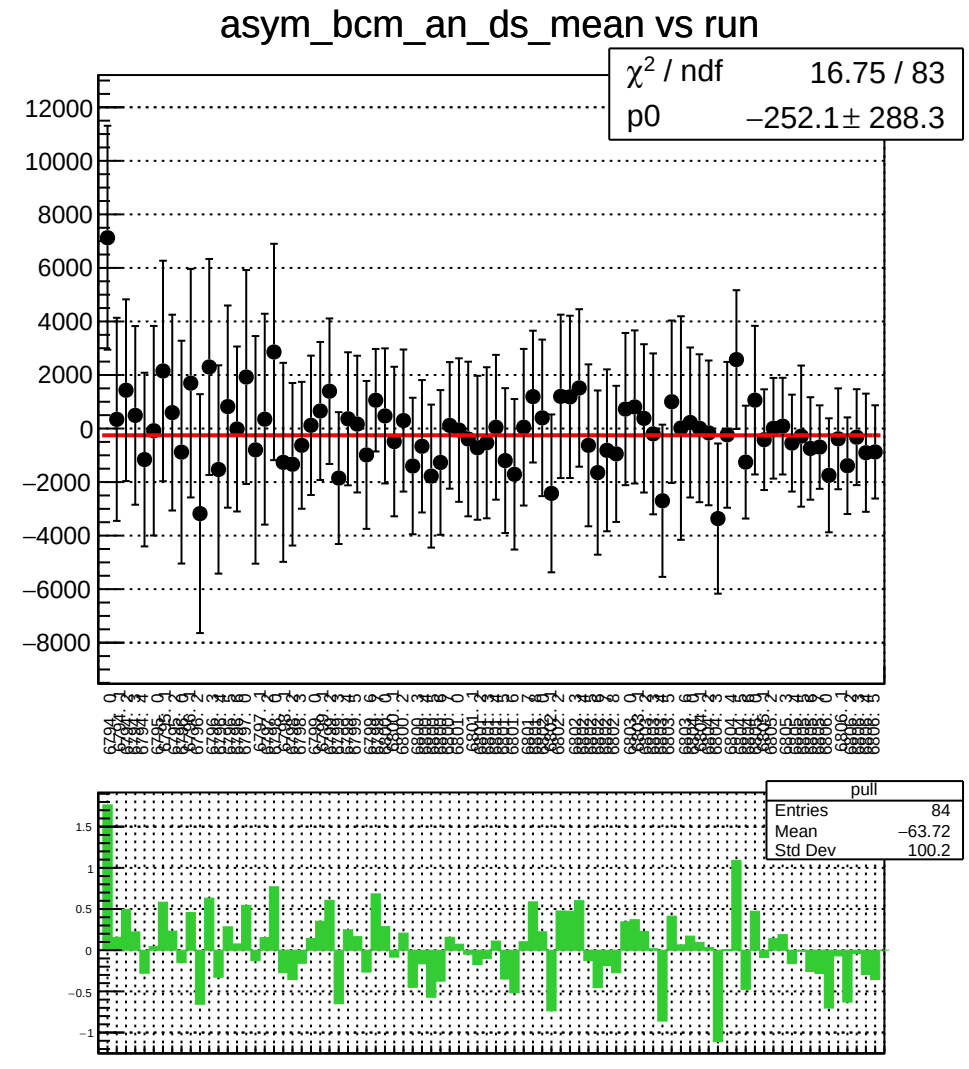

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

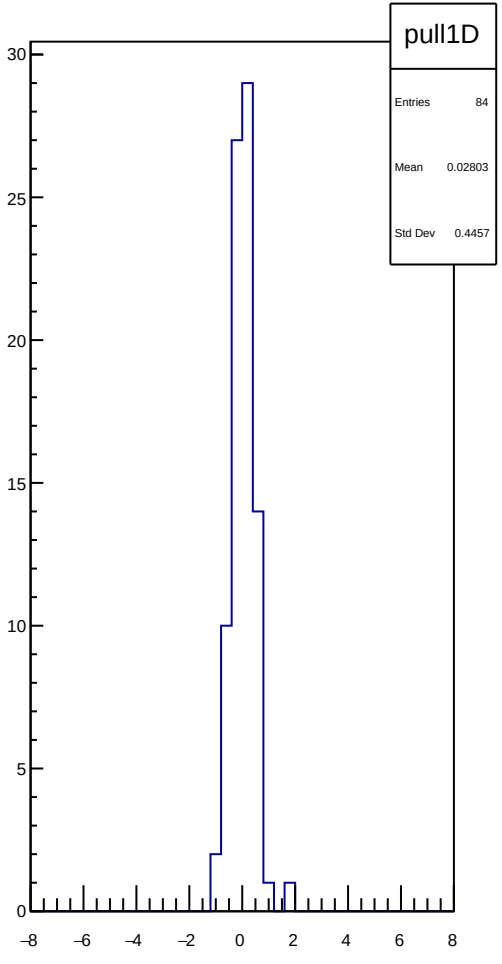

yield_bpm0i07WS_rms vs run
χ² / ndf 5.682e+04 / 83
p0 227 ± 0.1813
600
500
400
300
200

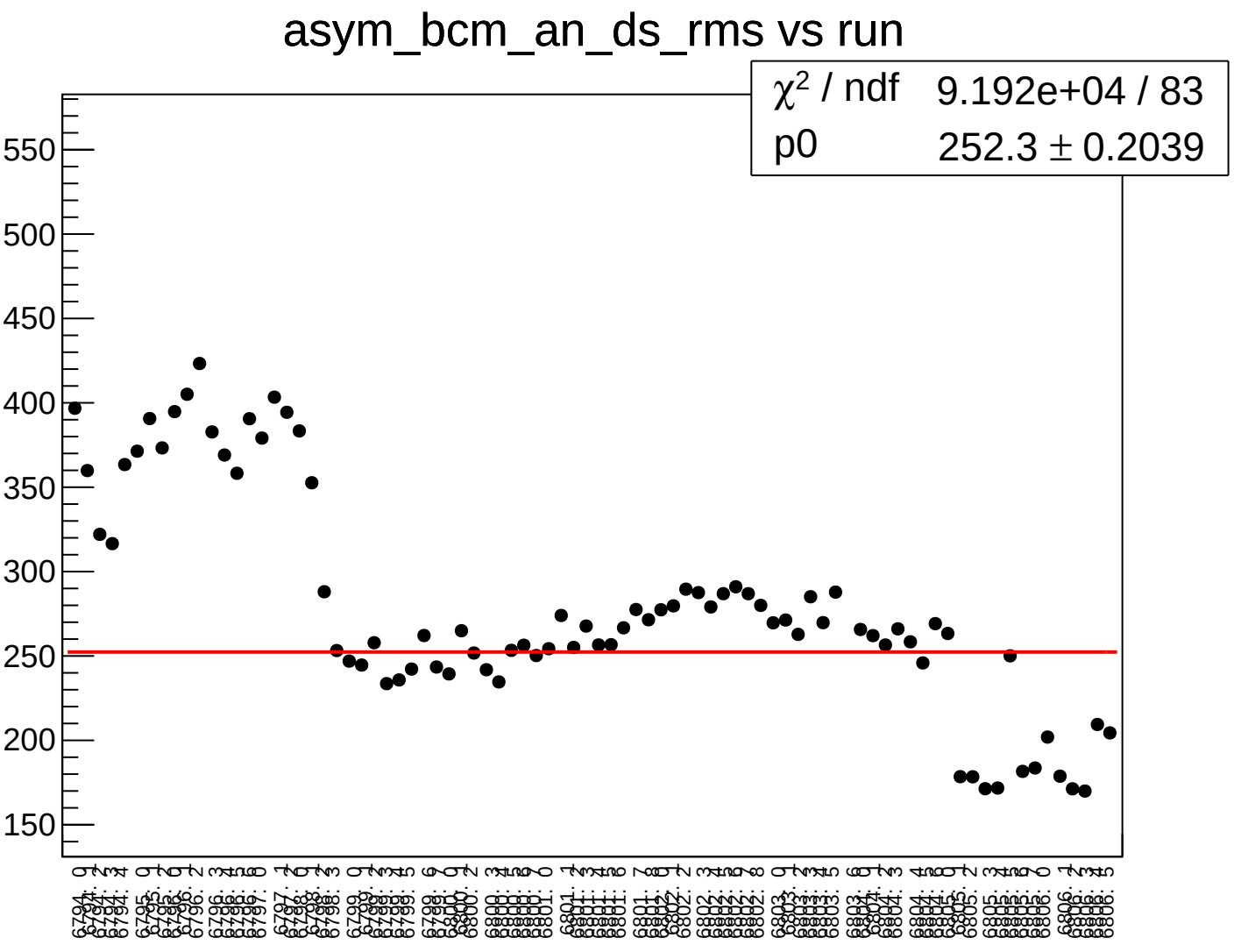

yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 3.452e+06 / 83
p0 1.211e+05 ± 0.24
122
121.5
121
120.5
120
pull
Entries 84
Mean −55.62
Std Dev 98.41
500
400
300
200
100
0
−100
−200
−300
−400

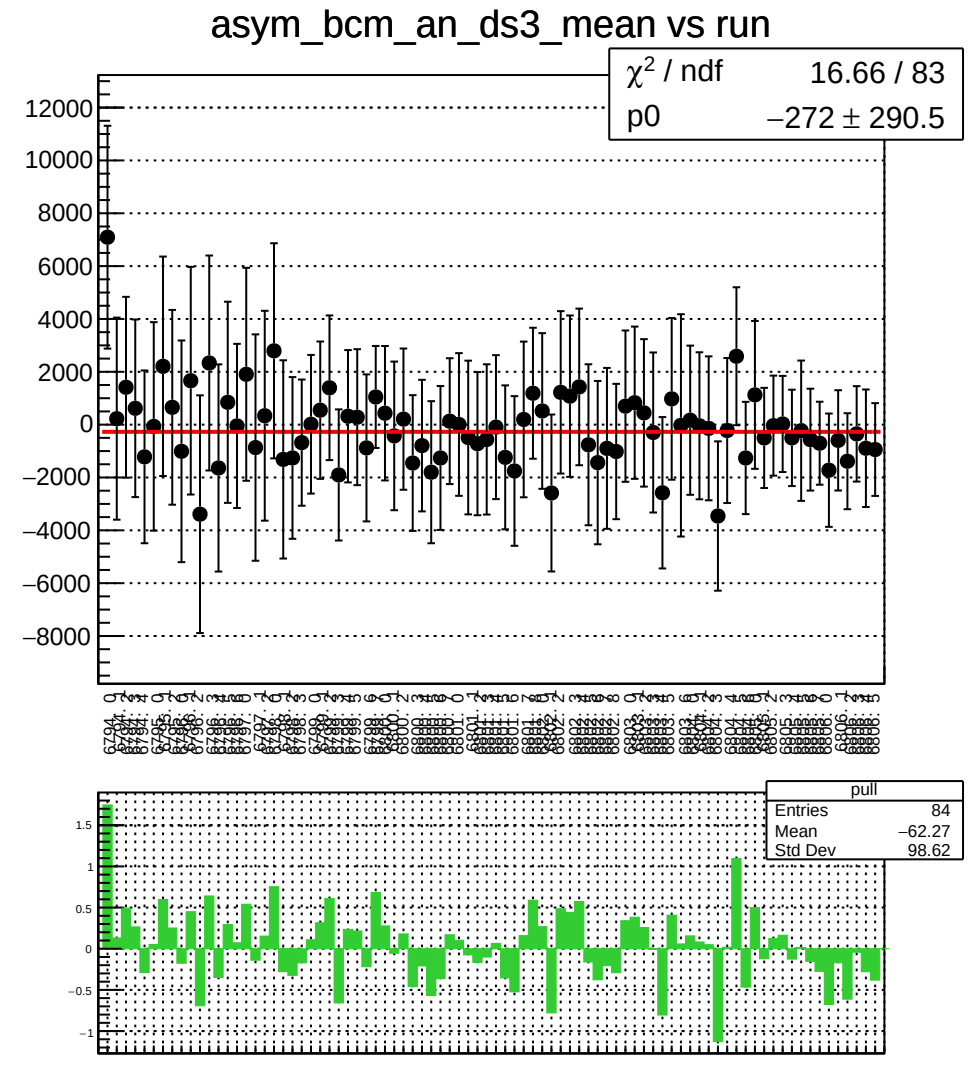

pull1D
Entries 84
Mean −1.396
Std Dev 5.965
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

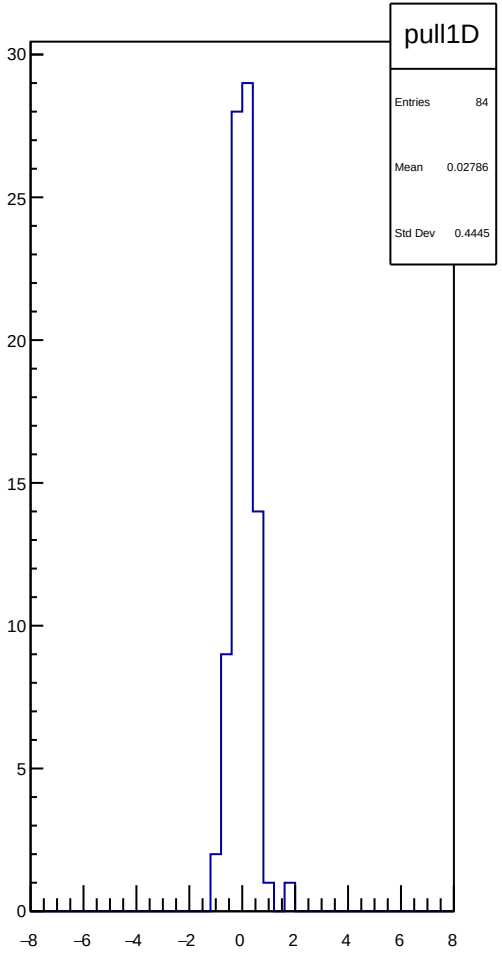

yield_bpm0l01WS_rms vs run
χ² / ndf 7.342e+04 / 83
p0 211.3 ± 0.1697
450
400
350
300
250
200
150

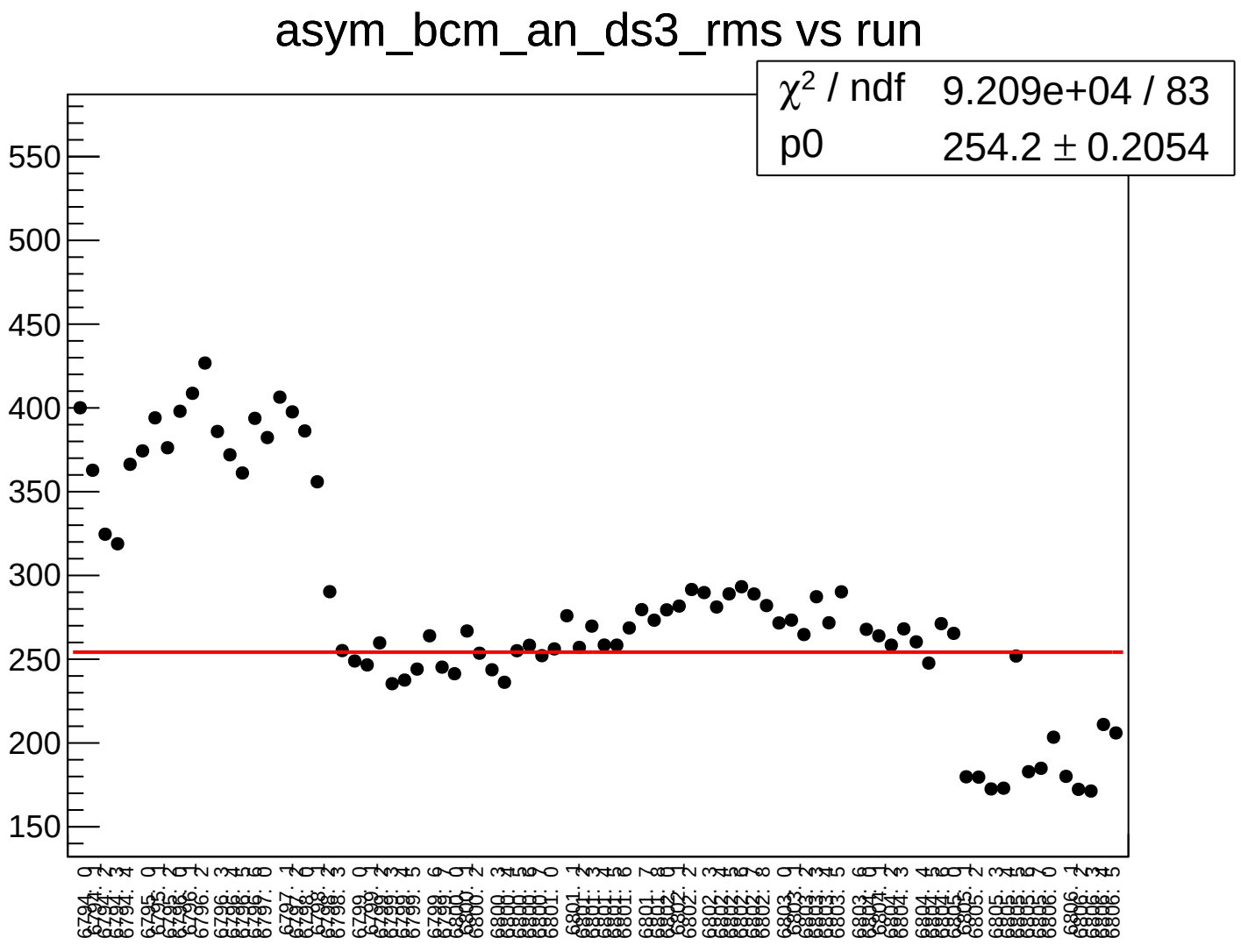

asym_bcm_an_ds_mean vs run
χ² / ndf 16.75 / 83
p0 −252.1± 288.3
pull
Entries 84
Mean −63.72
Std Dev 100.2

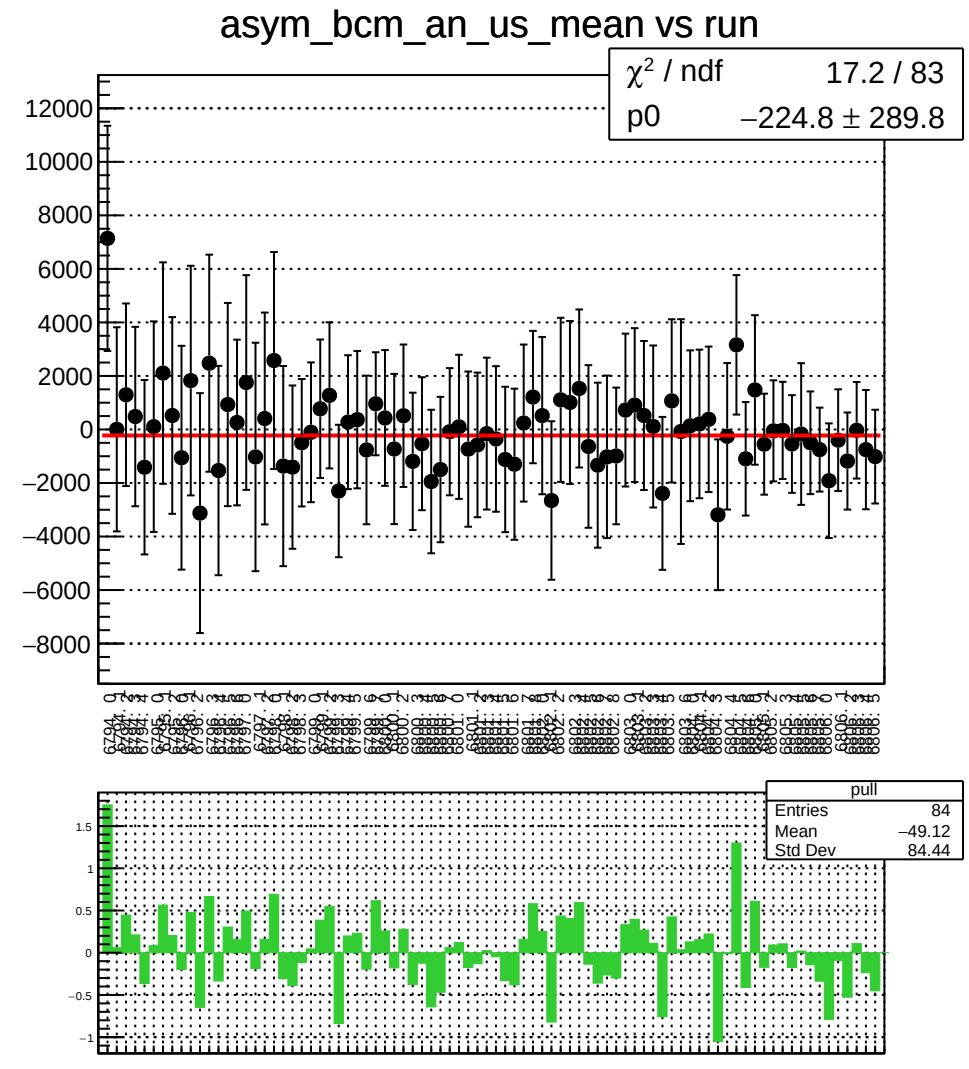

pull1D
Entries 84
Mean 0.02803
Std Dev 0.4457

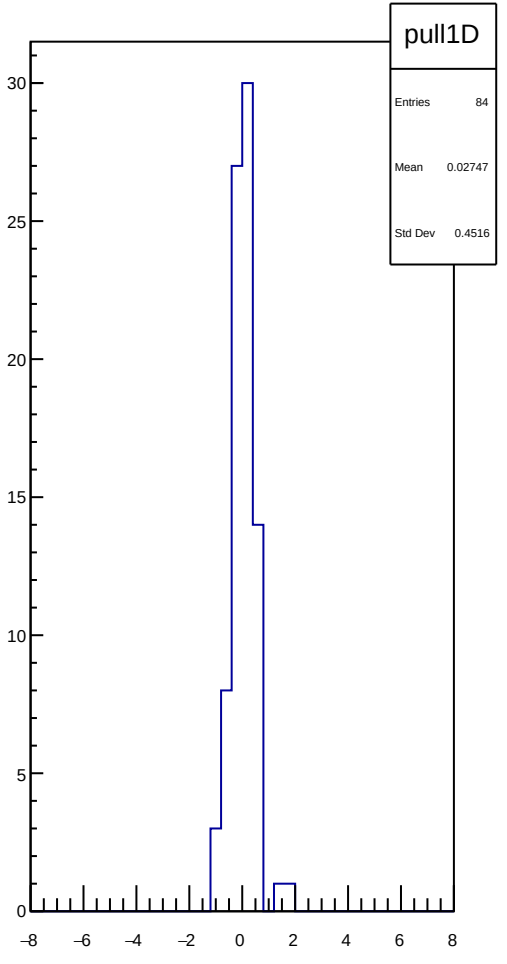

asym_bcm_an_ds_rms vs run
χ^2 / ndf 9.192e+04 / 83
p0 252.3 ± 0.2039
550
500
450
400
350
300
250
200
150

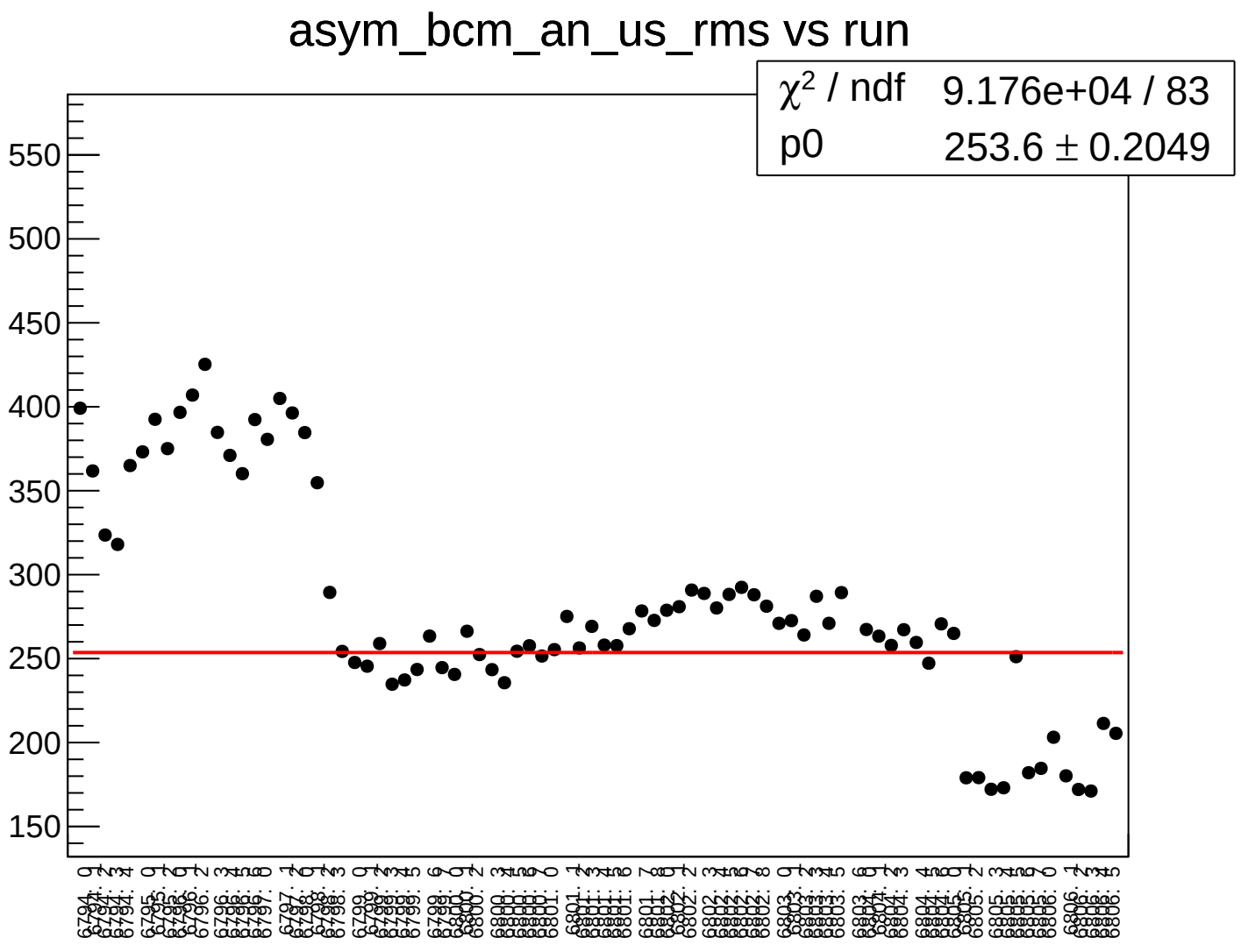

asym_bcm_an_ds3_mean vs run
χ² / ndf 16.66 / 83
p0 −272 ± 290.5
pull
Entries 84
Mean −62.27
Std Dev 98.62

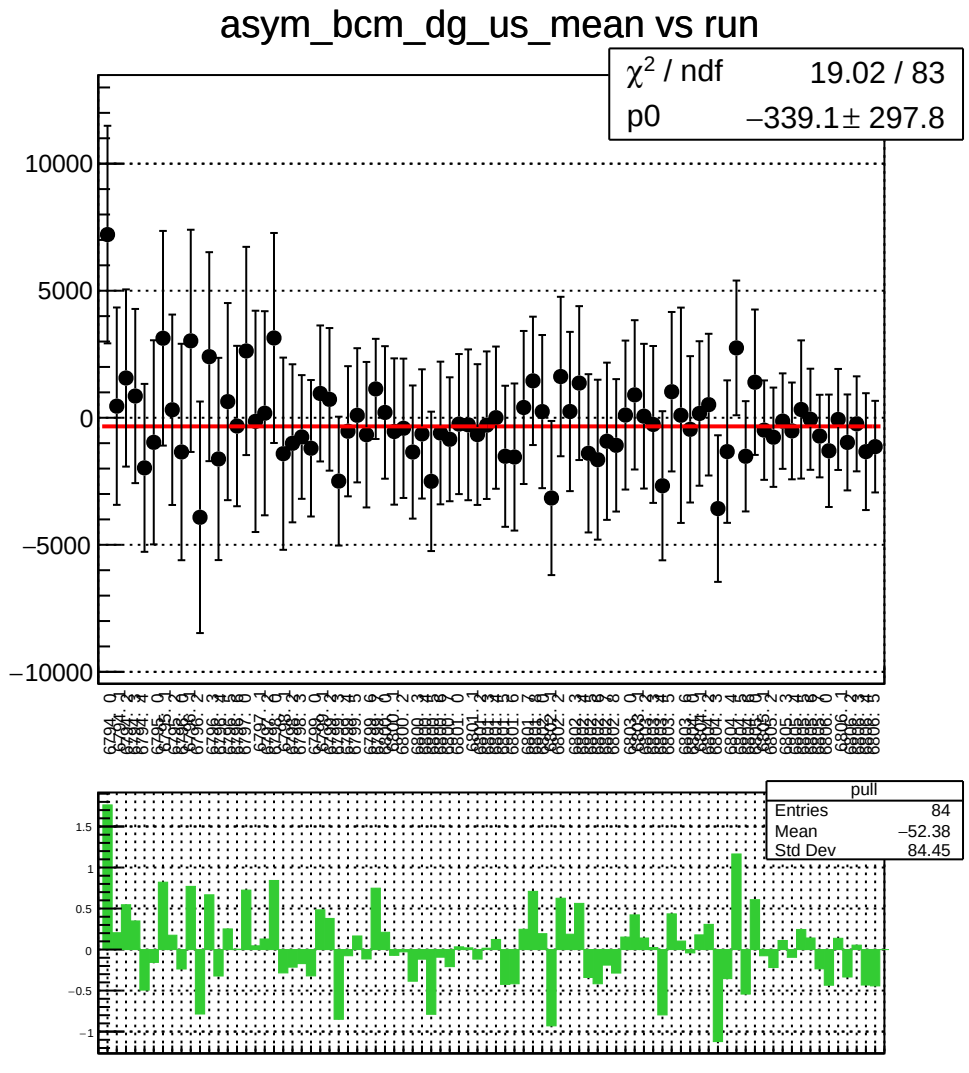

pull1D
Entries 84
Mean 0.02786
Std Dev 0.4445

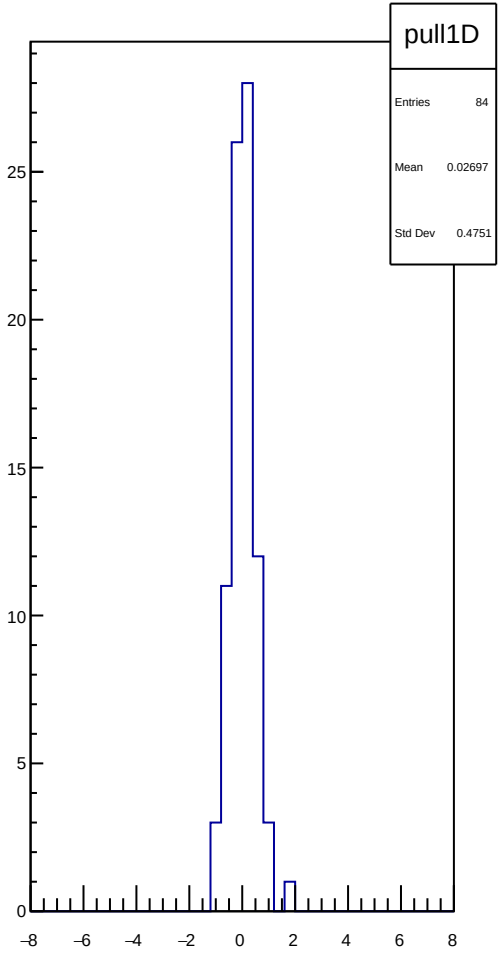

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 9.209e+04 / 83
p0 254.2 ± 0.2054
550
500
450
400
350
300
250
200
150

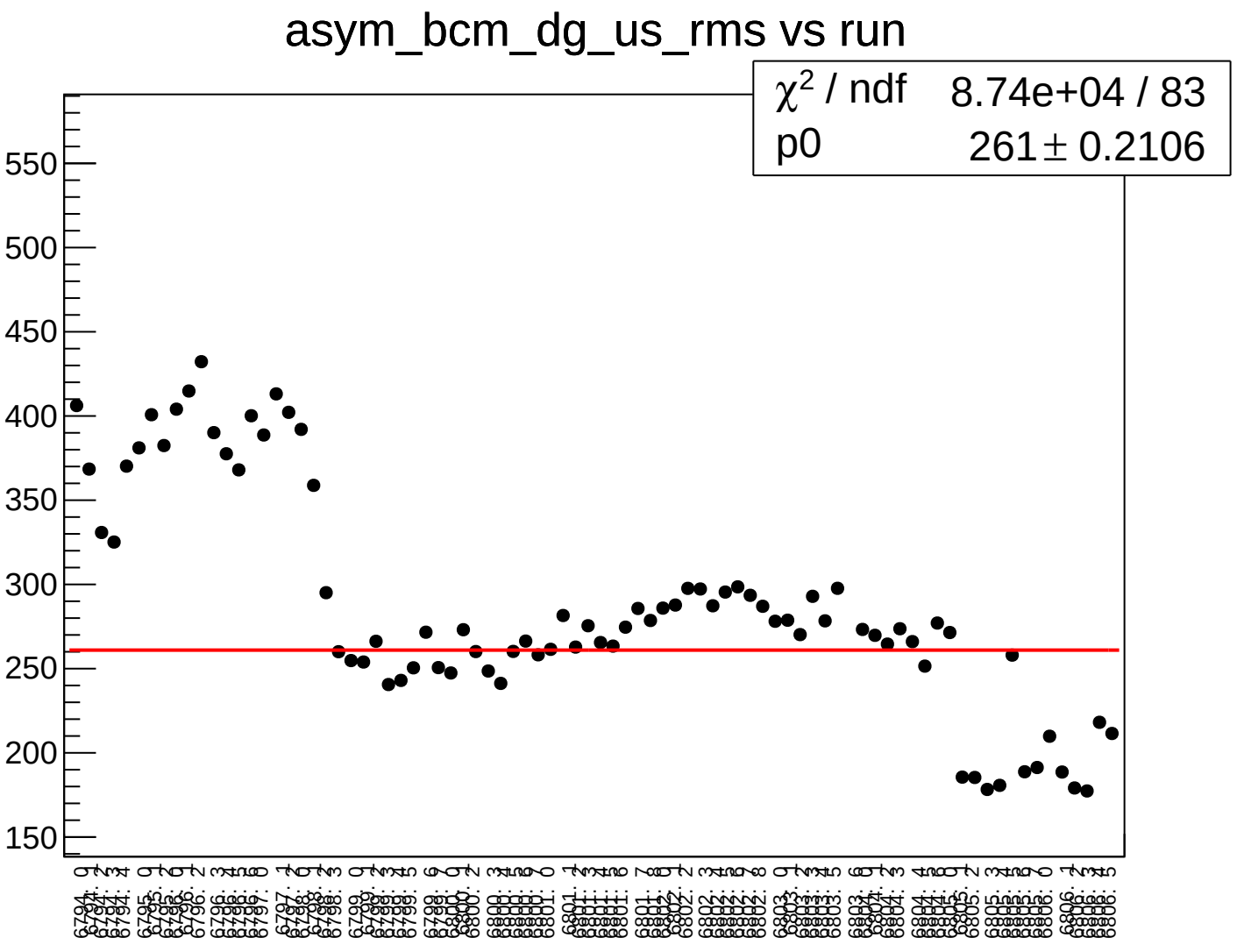

asym_bcm_an_us_mean vs run
χ² / ndf 17.2 / 83
p0 −224.8 ± 289.8
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean −49.12
Std Dev 84.44
1.5
1
0.5
0
−0.5
−1

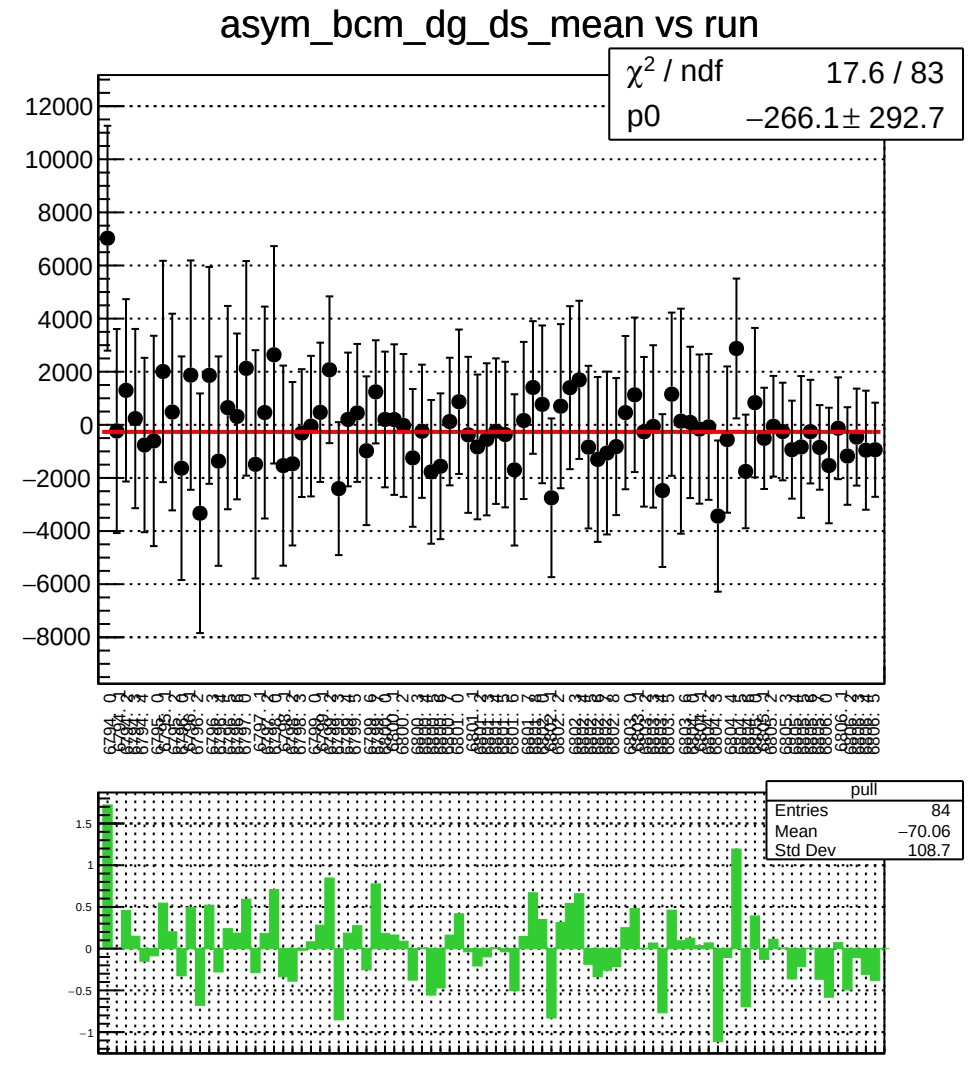

pull1D
Entries 84
Mean 0.02747
Std Dev 0.4516
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

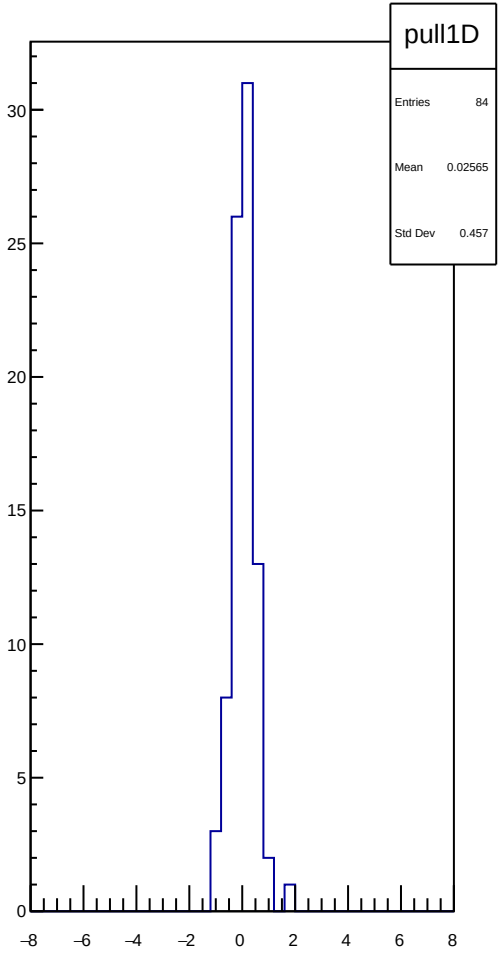

asym_bcm_an_us_rms vs run
χ^2 / ndf 9.176e+04 / 83
p0 253.6 ± 0.2049
550
500
450
400
350
300
250
200
150

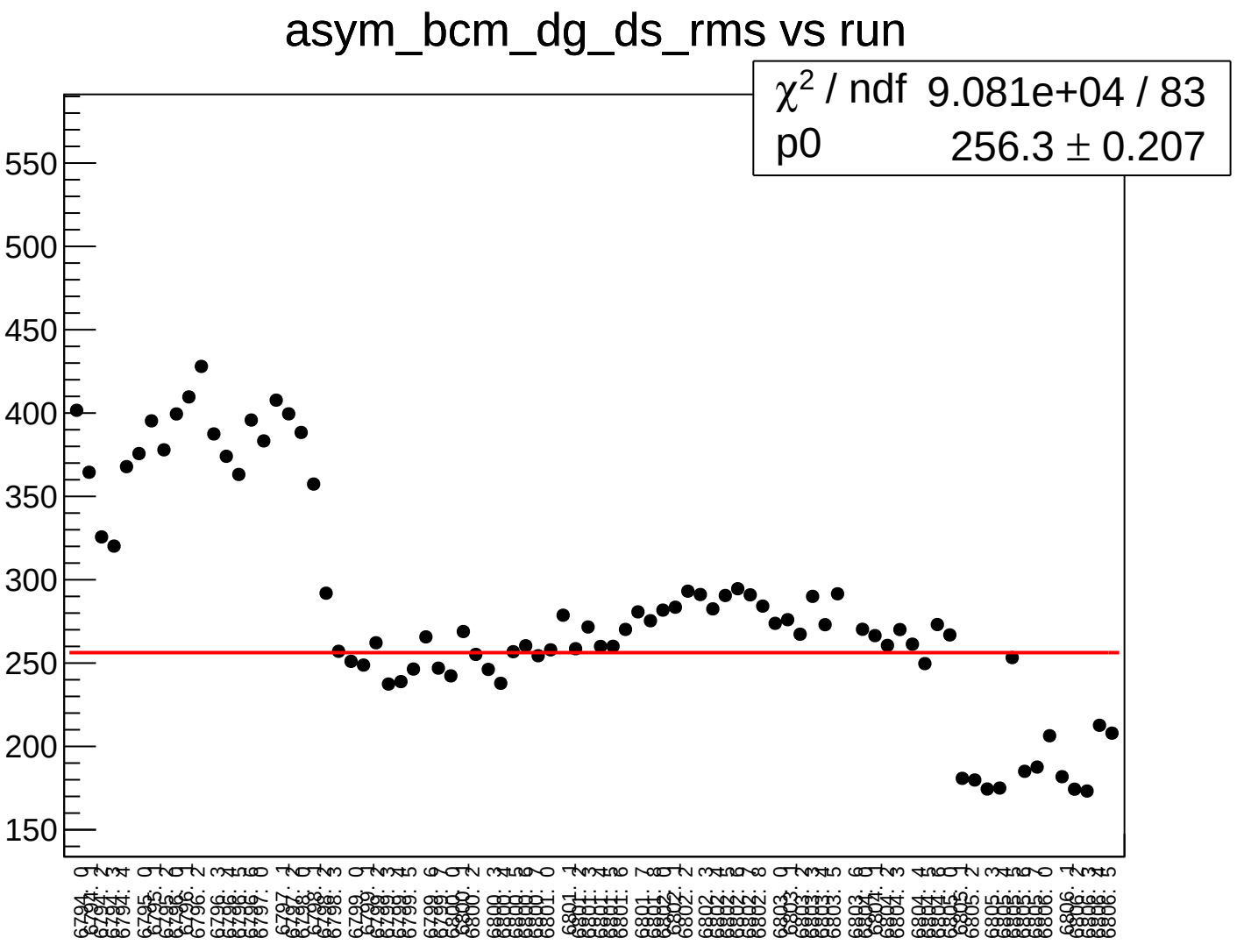

asym_bcm_dg_us_mean vs run
χ² / ndf 19.02 / 83
p0 −339.1± 297.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −52.38
Std Dev 84.45
1.5
1
0.5
0
−0.5
−1

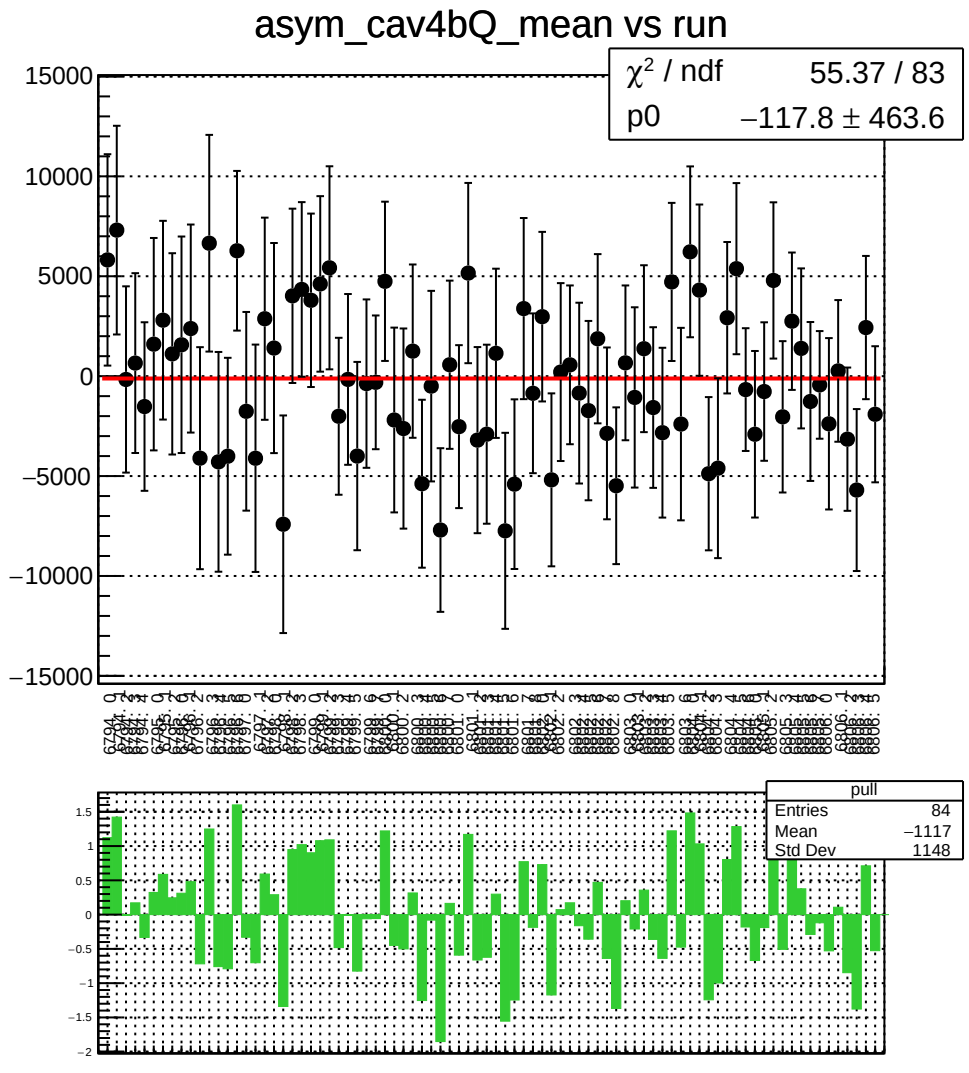

pull1D
Entries 84
Mean 0.02697
Std Dev 0.4751
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

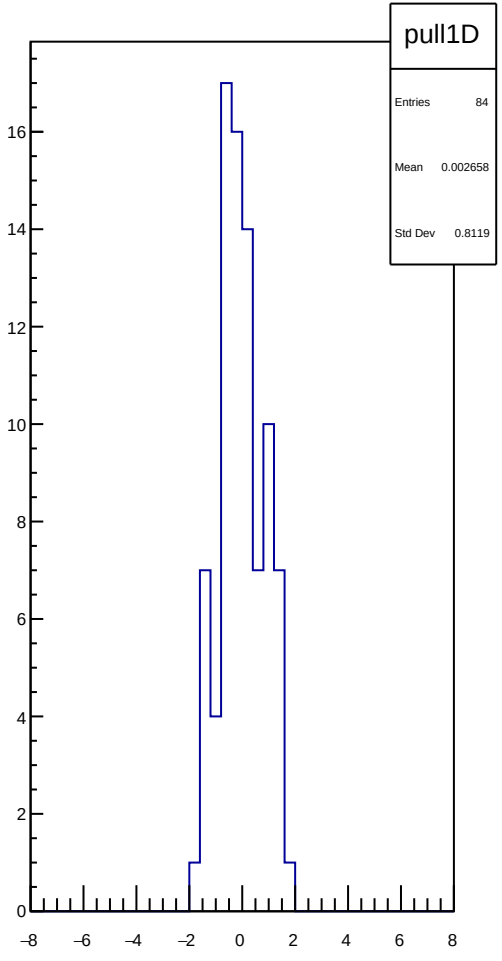

asym_bcm_dg_us_rms vs run
χ^2 / ndf 8.74e+04 / 83
p0 261 ± 0.2106
550
500
450
400
350
300
250
200
150

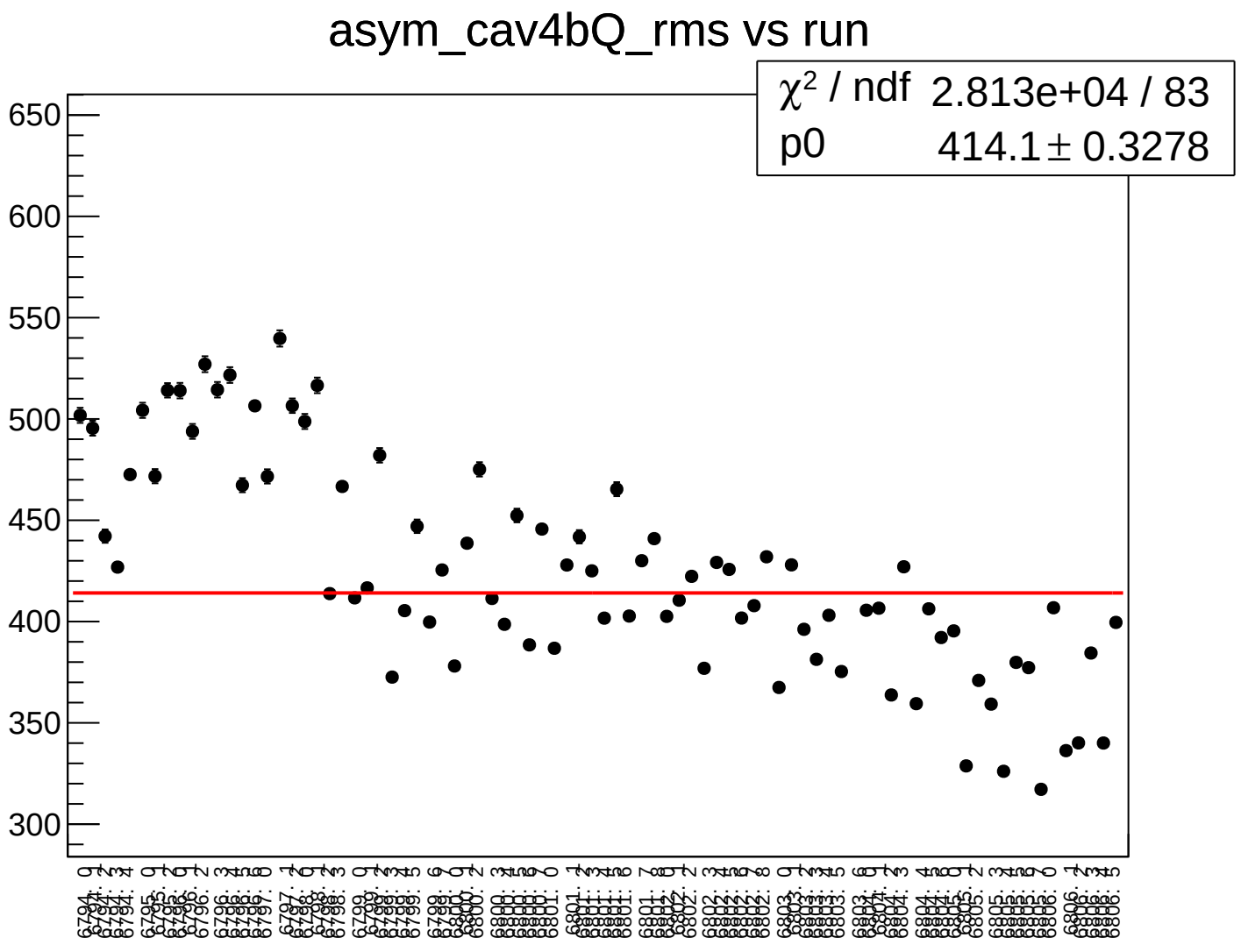

asym_bcm_dg_ds_mean vs run
χ² / ndf 17.6 / 83
p0 −266.1± 292.7
pull
Entries 84
Mean −70.06
Std Dev 108.7

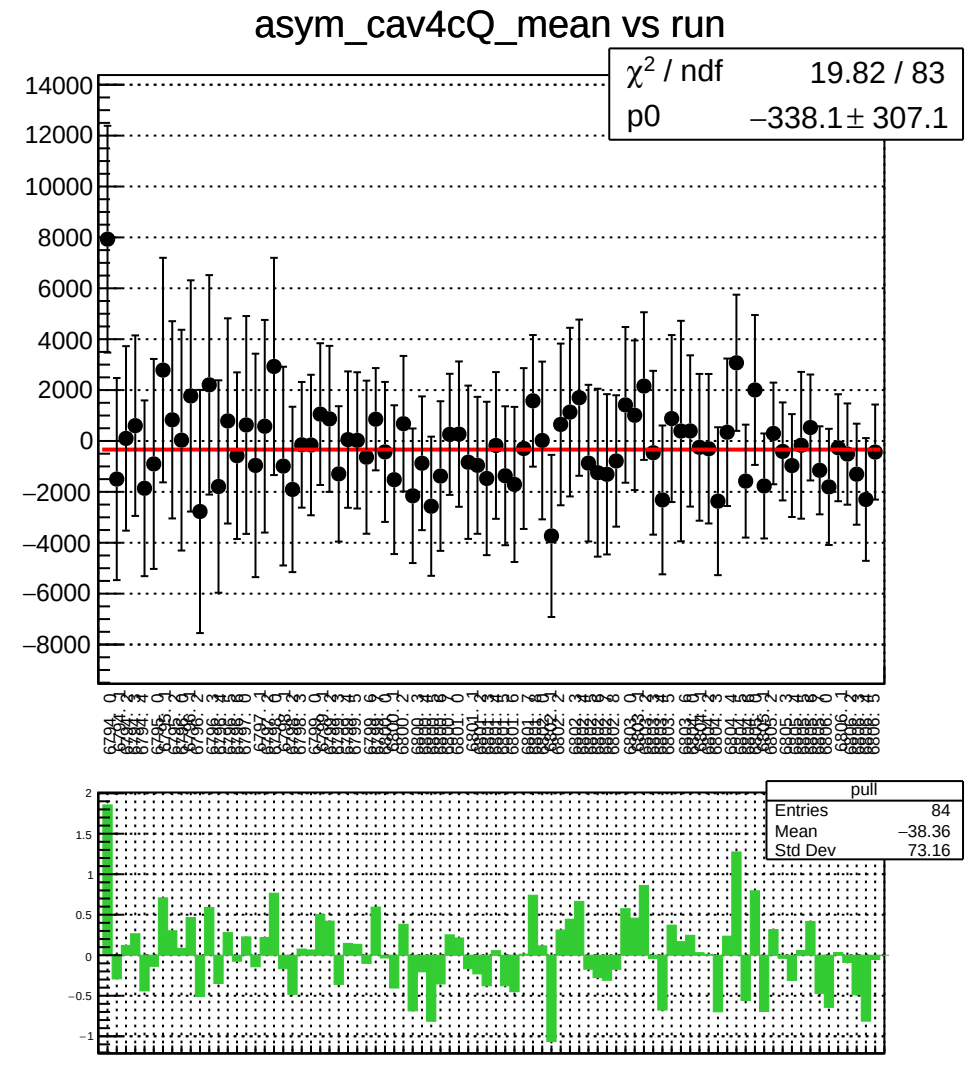

pull1D
Entries 84
Mean 0.02565
Std Dev 0.457

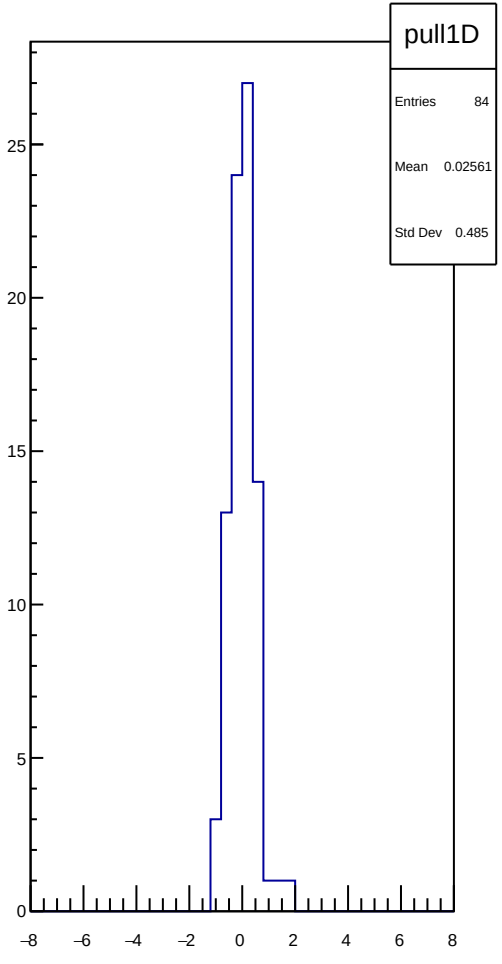

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 9.081e+04 / 83
p0 256.3 ± 0.207
550
500
450
400
350
300
250
200
150

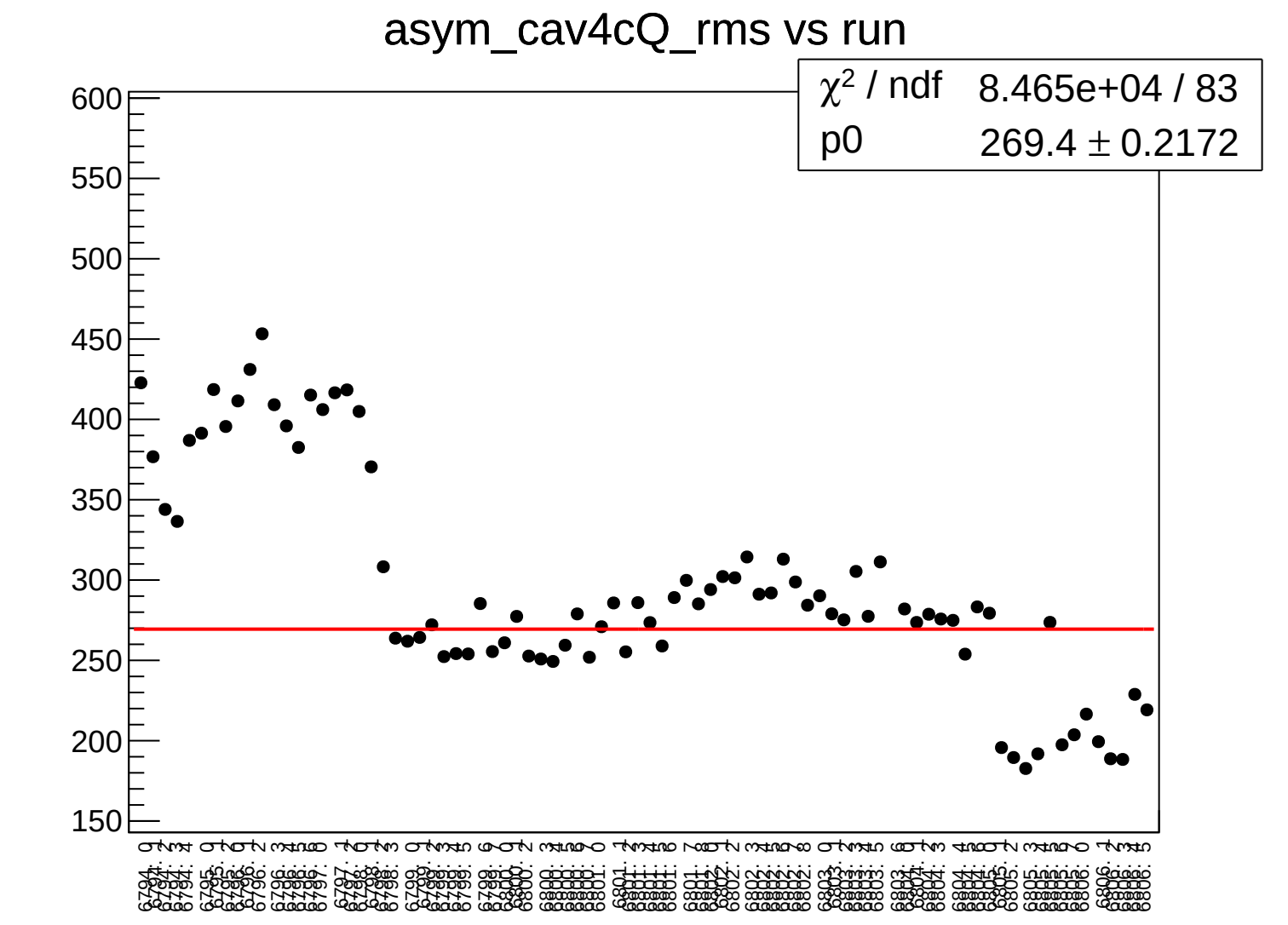

asym_cav4bQ_mean vs run
χ² / ndf 55.37 / 83
p0 −117.8 ± 463.6
pull
Entries 84
Mean −1117
Std Dev 1148

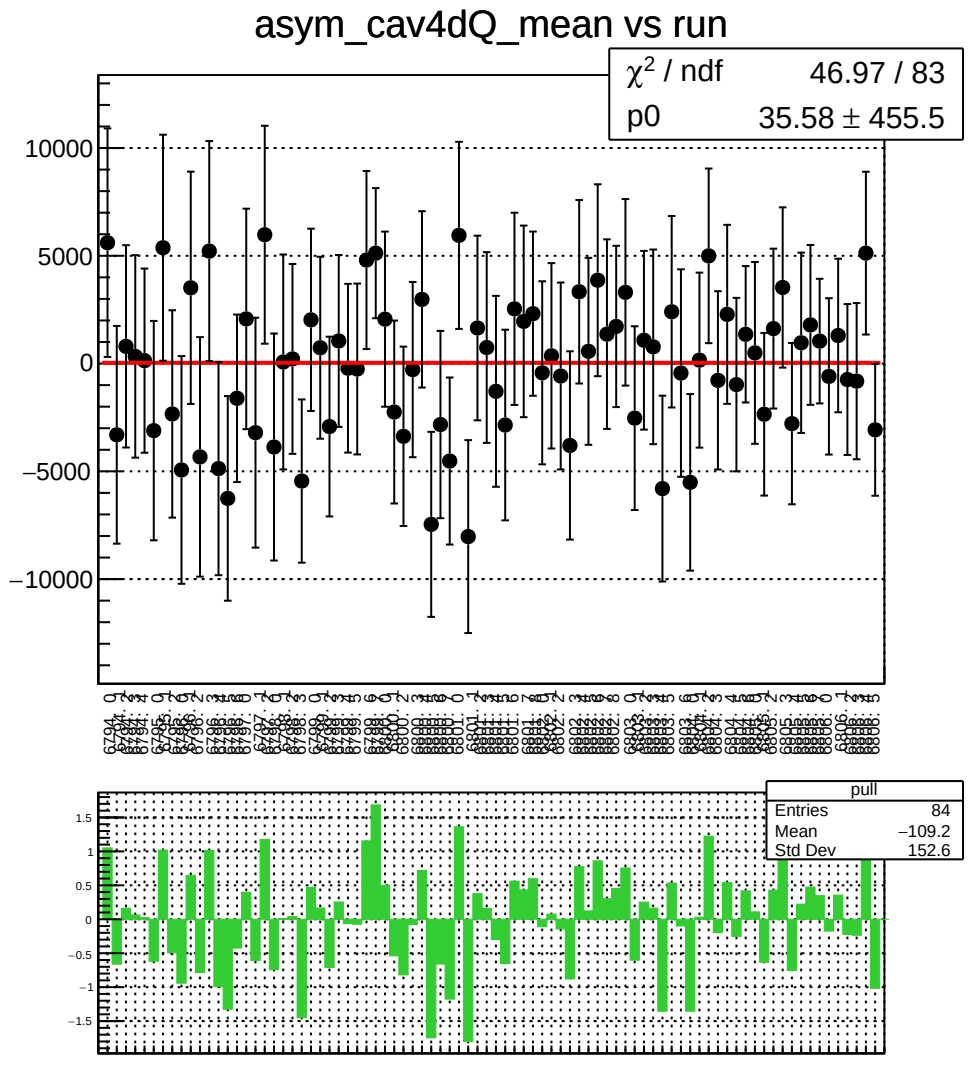

pull1D
Entries 84
Mean 0.002658
Std Dev 0.8119

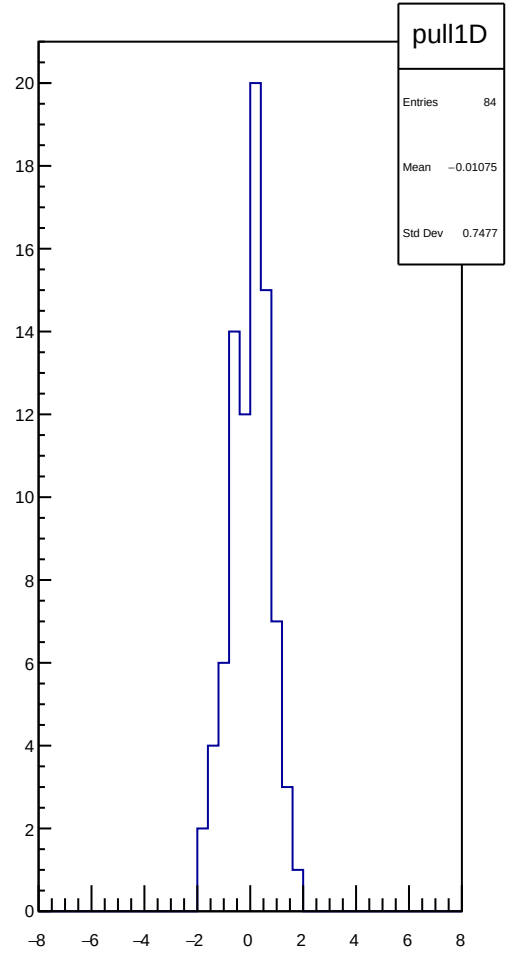

asym_cav4bQ_rms vs run
χ² / ndf 2.813e+04 / 83
p0 414.1 ± 0.3278
650
600
550
500
450
400
350
300

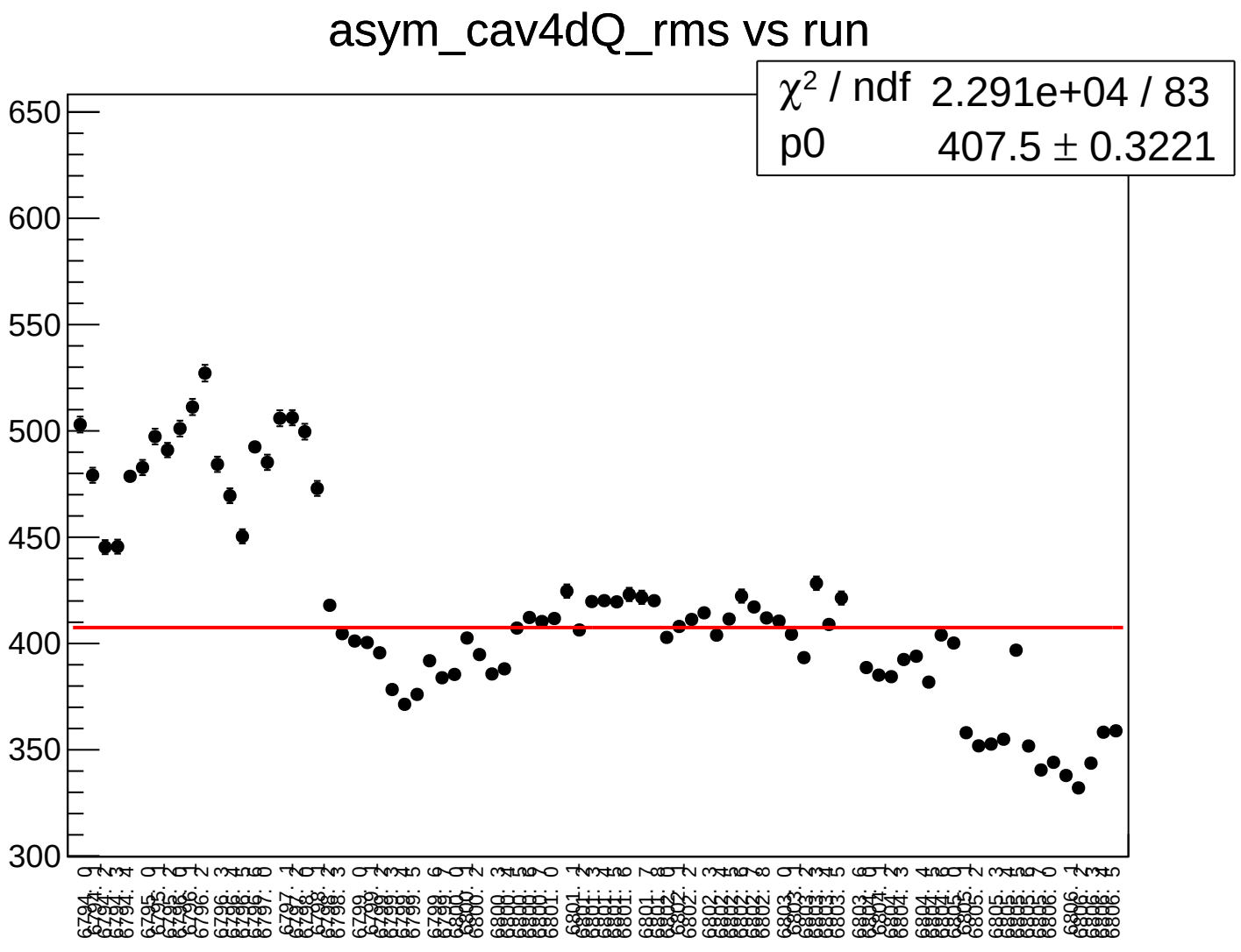

asym_cav4cQ_mean vs run
χ² / ndf 19.82 / 83
p0 −338.1 ± 307.1
pull
Entries 84
Mean −38.36
Std Dev 73.16

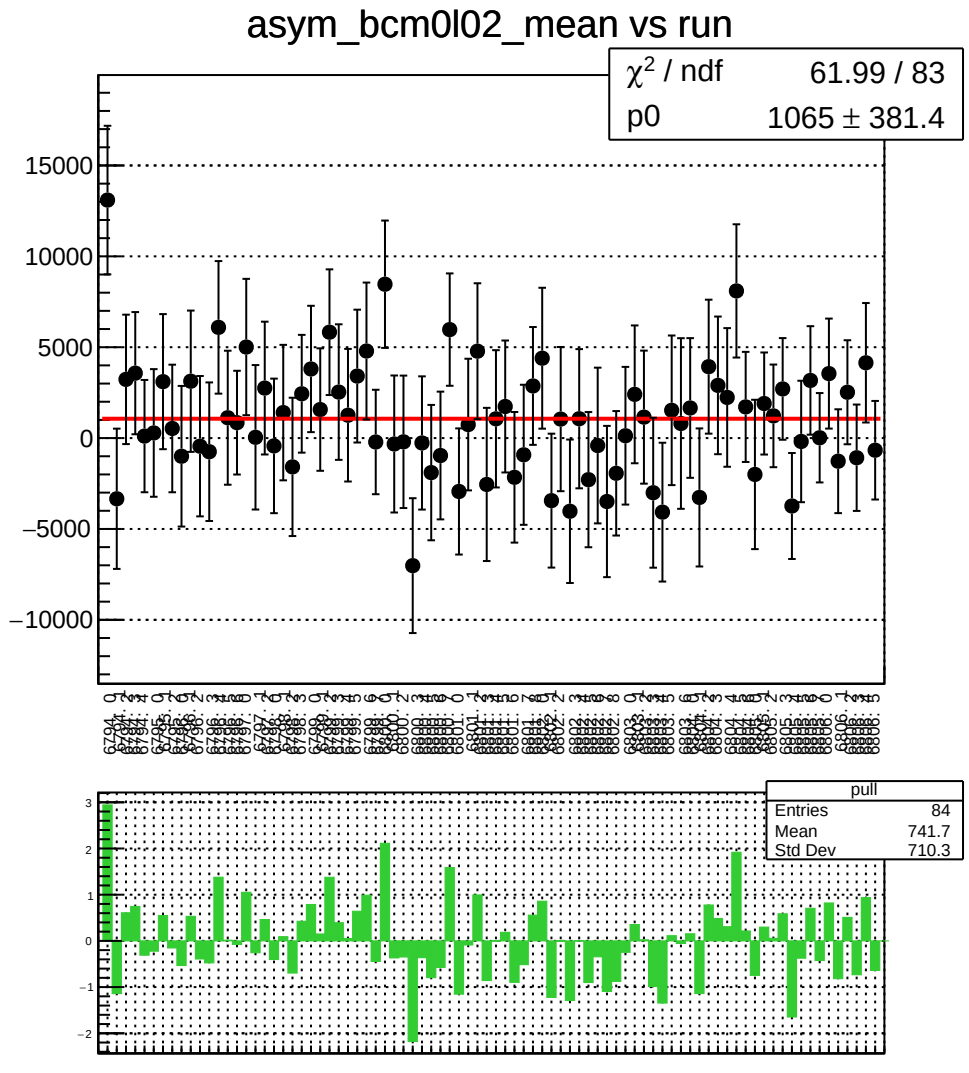

pull1D
Entries 84
Mean 0.02561
Std Dev 0.485

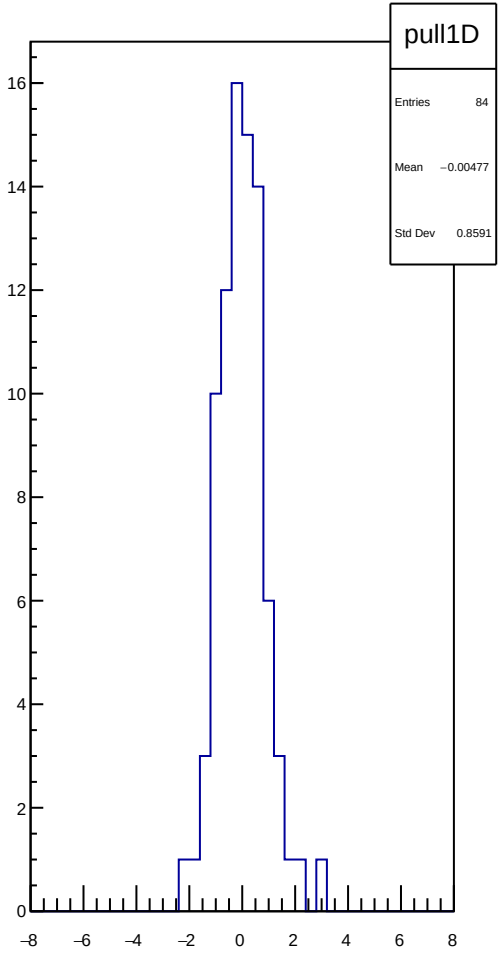

asym_cav4cQ_rms vs run
χ^2 / ndf 8.465e+04 / 83
p0 269.4 ± 0.2172
600
550
500
450
400
350
300
250
200
150

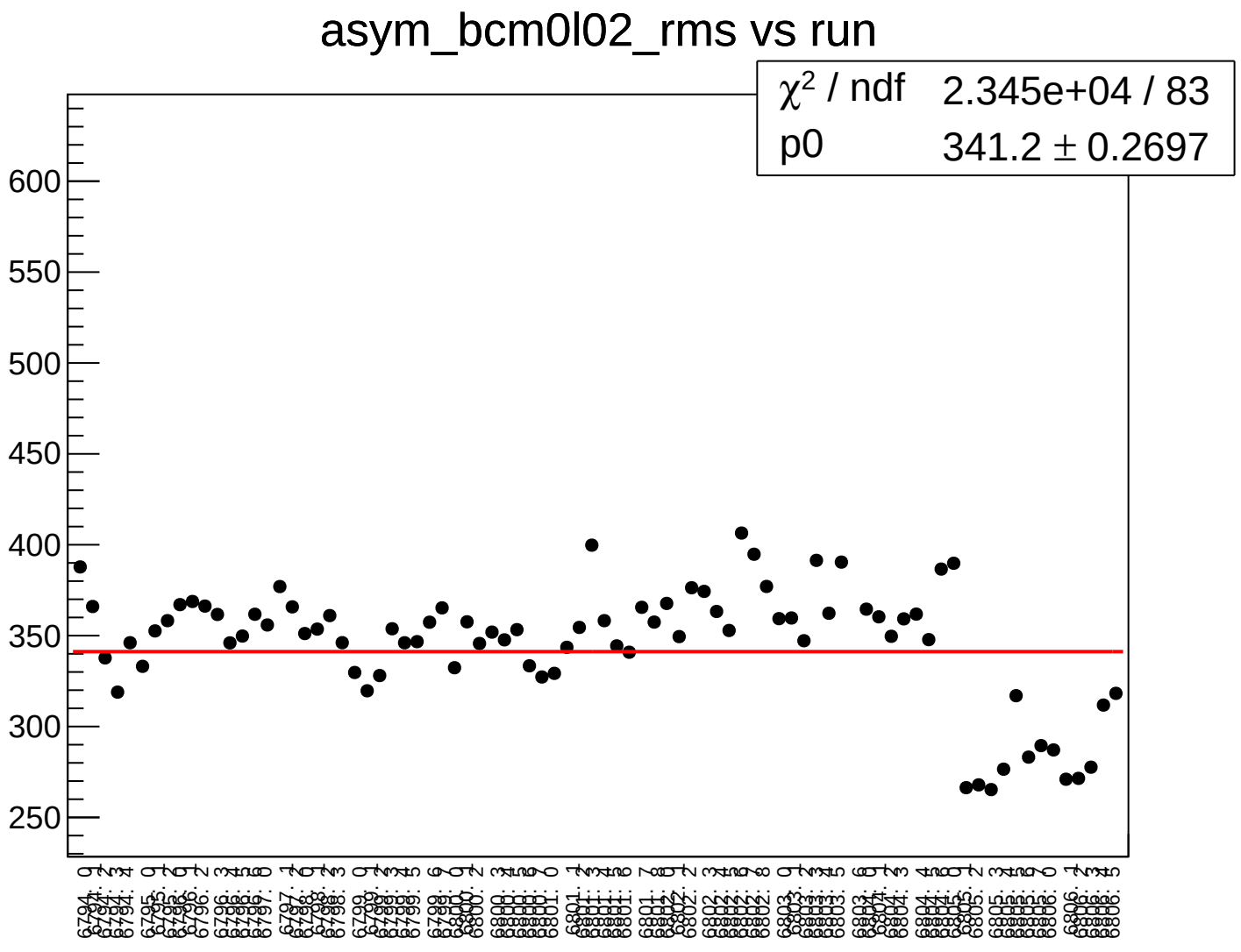

asym_cav4dQ_mean vs run
χ² / ndf 46.97 / 83
p0 35.58 ± 455.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −109.2
Std Dev 152.6
1.5
1
0.5
0
−0.5
−1
−1.5

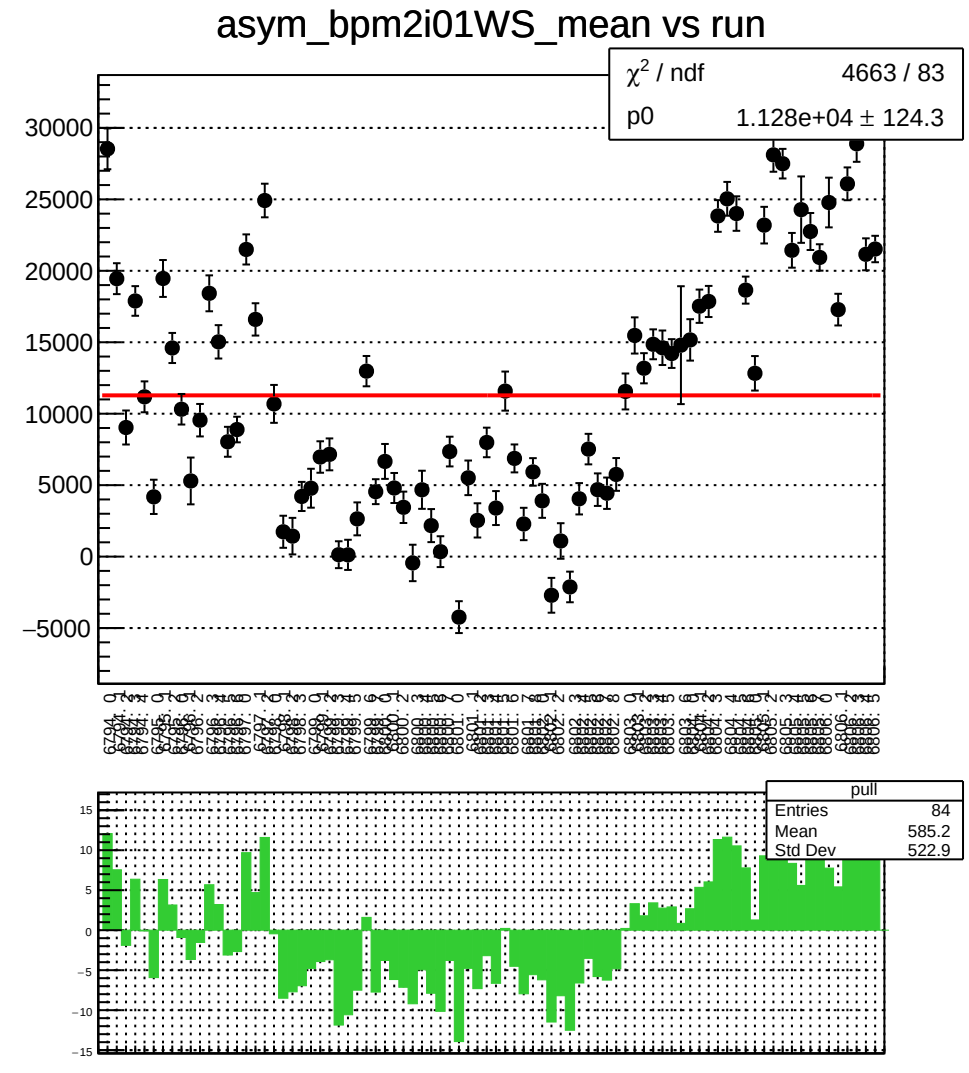

pull1D
Entries 84
Mean −0.01075
Std Dev 0.7477
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

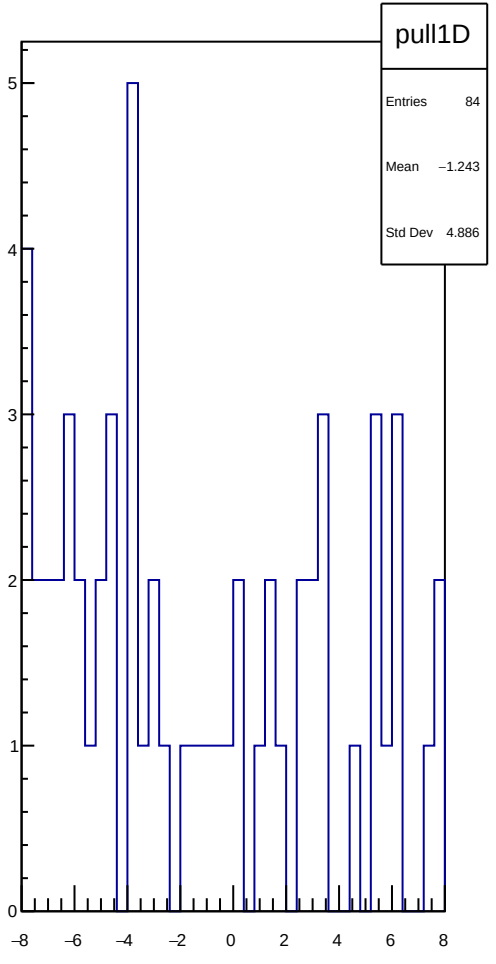

asym_cav4dQ_rms vs run
χ² / ndf 2.291e+04 / 83
p0 407.5 ± 0.3221
650
600
550
500
450
400
350
300

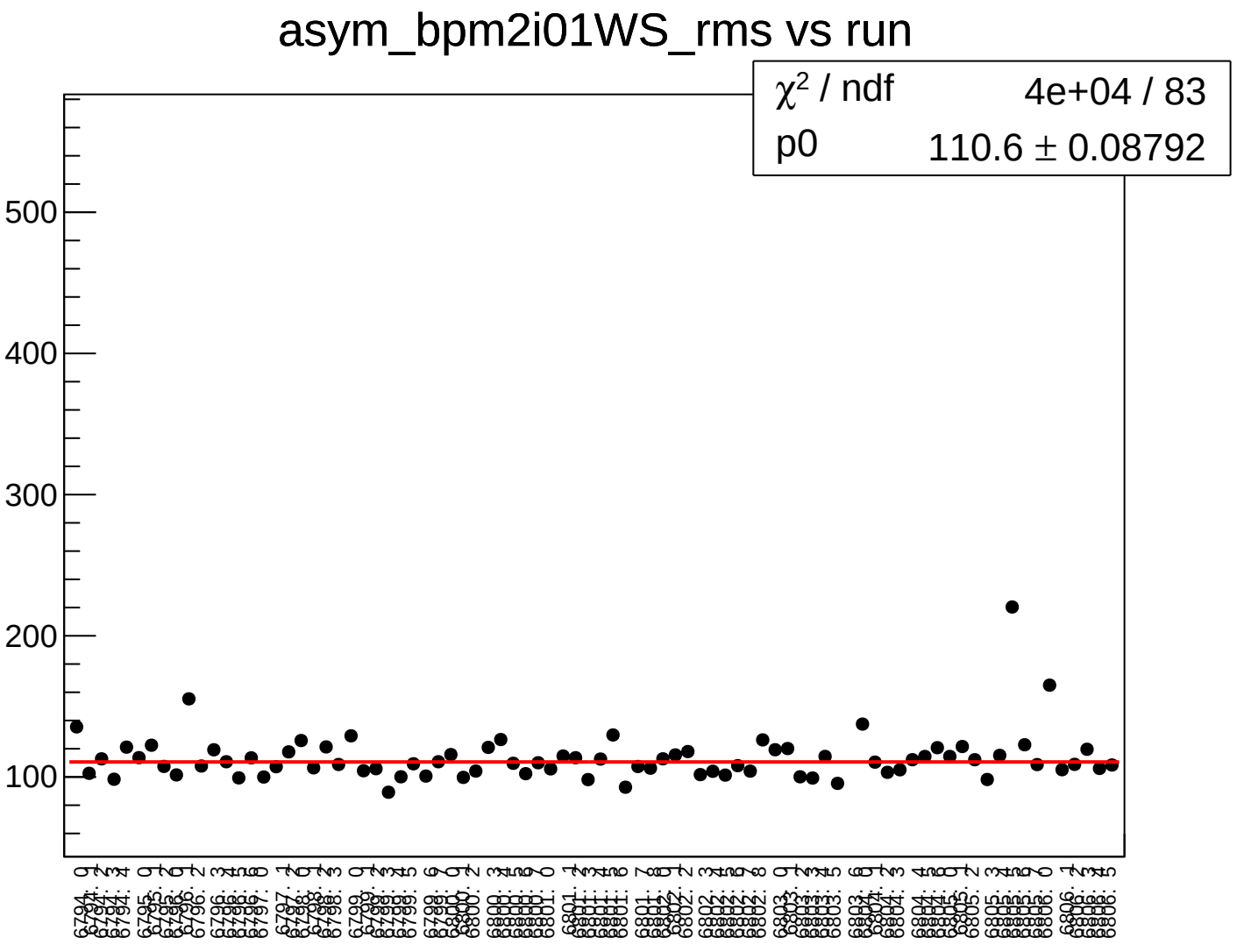

asym_bcm0l02_mean vs run
χ² / ndf 61.99 / 83
p0 1065 ± 381.4
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 741.7
Std Dev 710.3
3
2
1
0
−1
−2

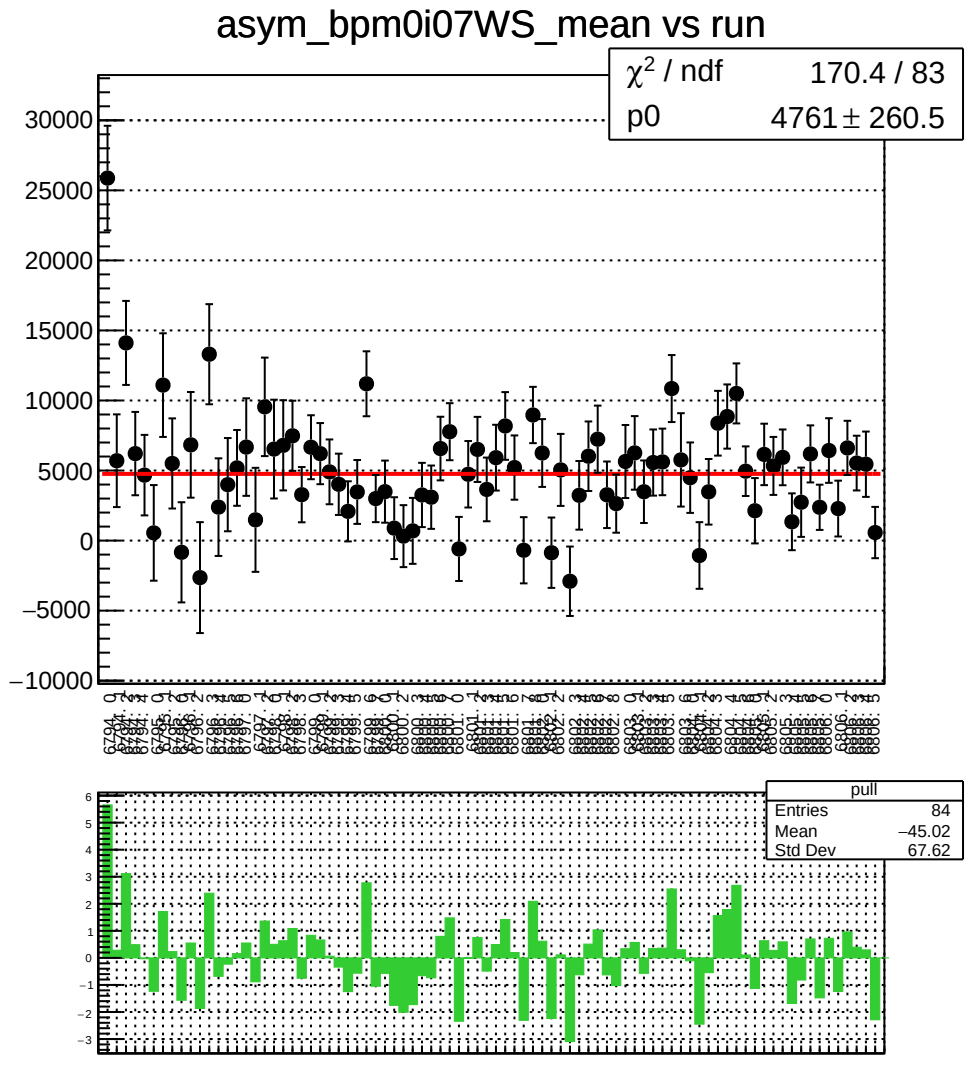

pull1D
Entries 84
Mean −0.00477
Std Dev 0.8591
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

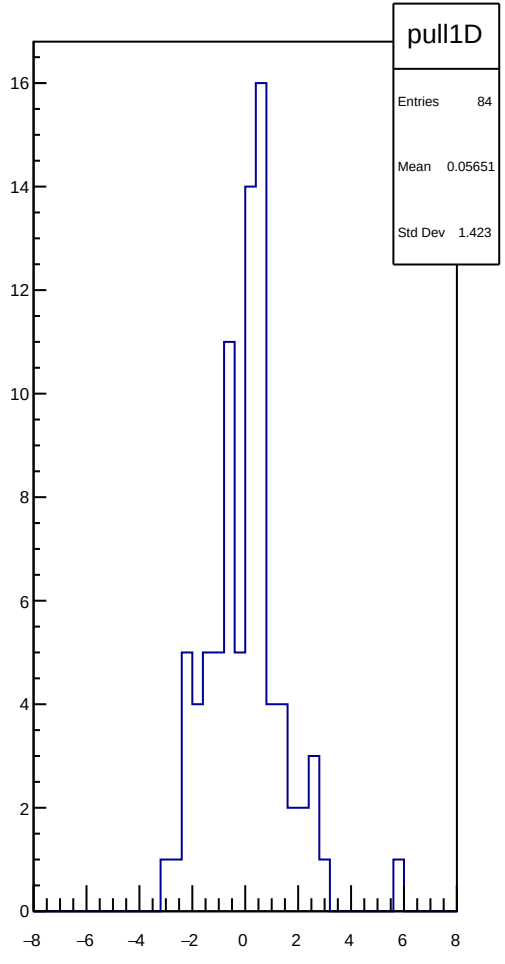

asym_bcm0l02_rms vs run
χ^2 / ndf 2.345e+04 / 83
p0 341.2 ± 0.2697
600
550
500
450
400
350
300
250

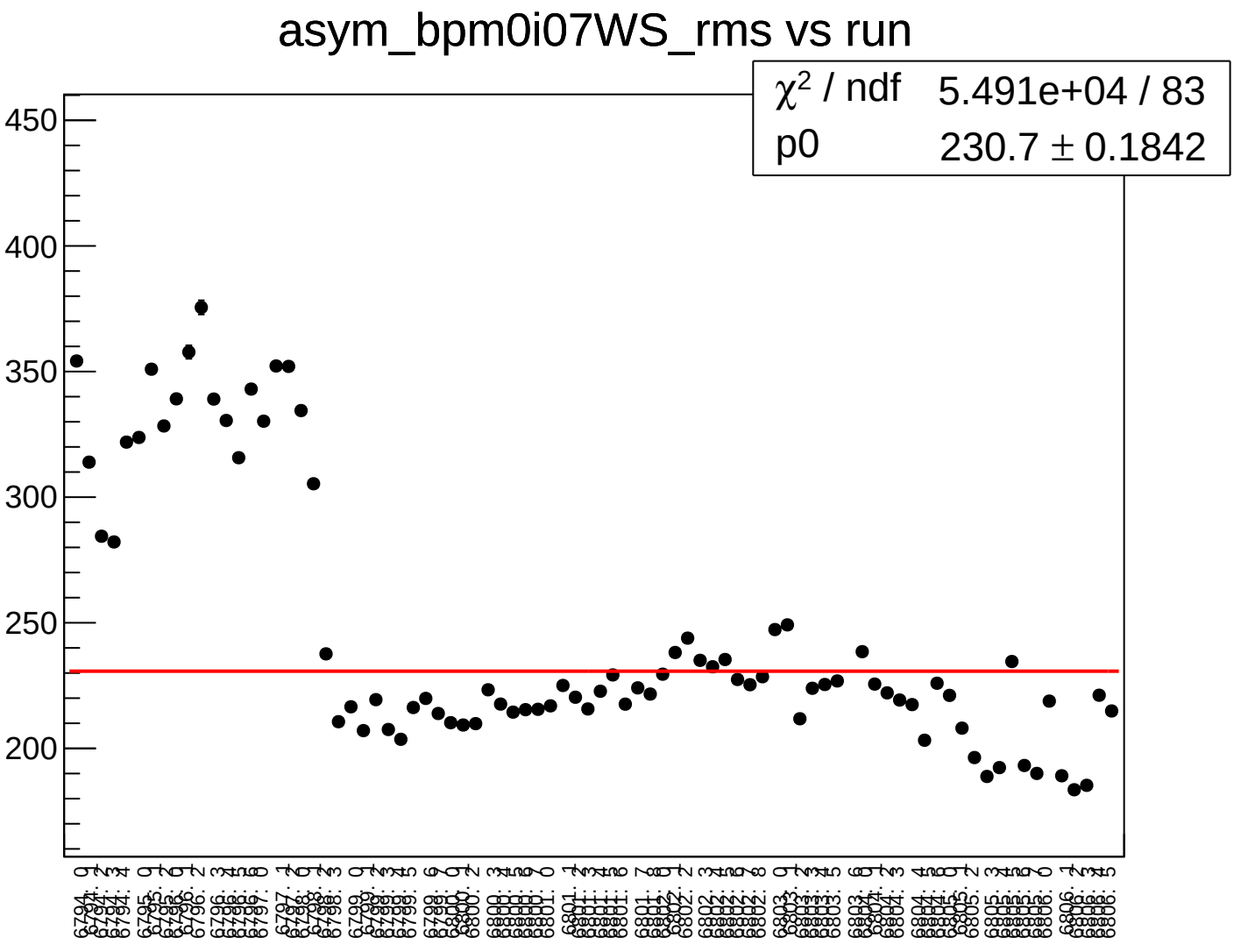

asym_bpm2i01WS_mean vs run
χ² / ndf 4663 / 83
p0 1.128e+04 ± 124.3
pull
Entries 84
Mean 585.2
Std Dev 522.9

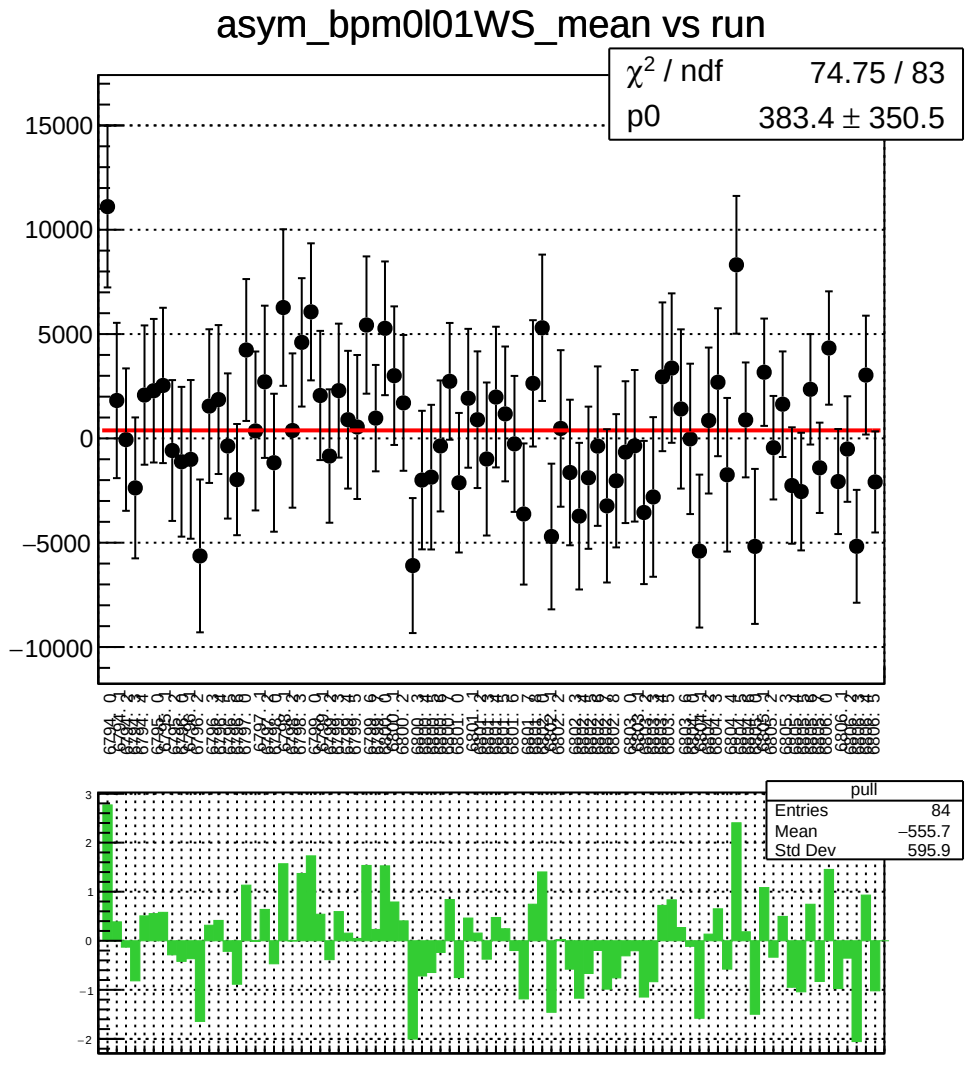

pull1D
Entries 84
Mean −1.243
Std Dev 4.886

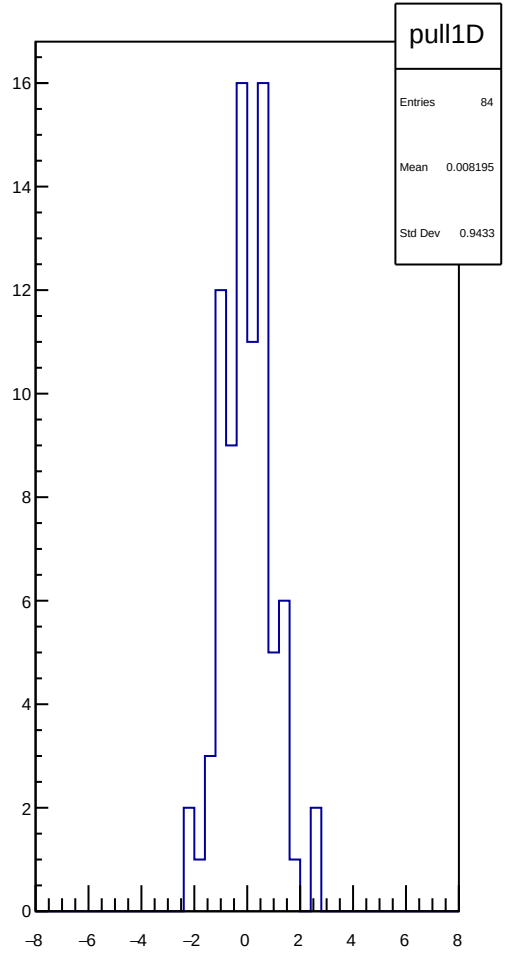

asym_bpm2i01WS_rms vs run
χ² / ndf 4e+04 / 83
p0 110.6 ± 0.08792
500
400
300
200
100

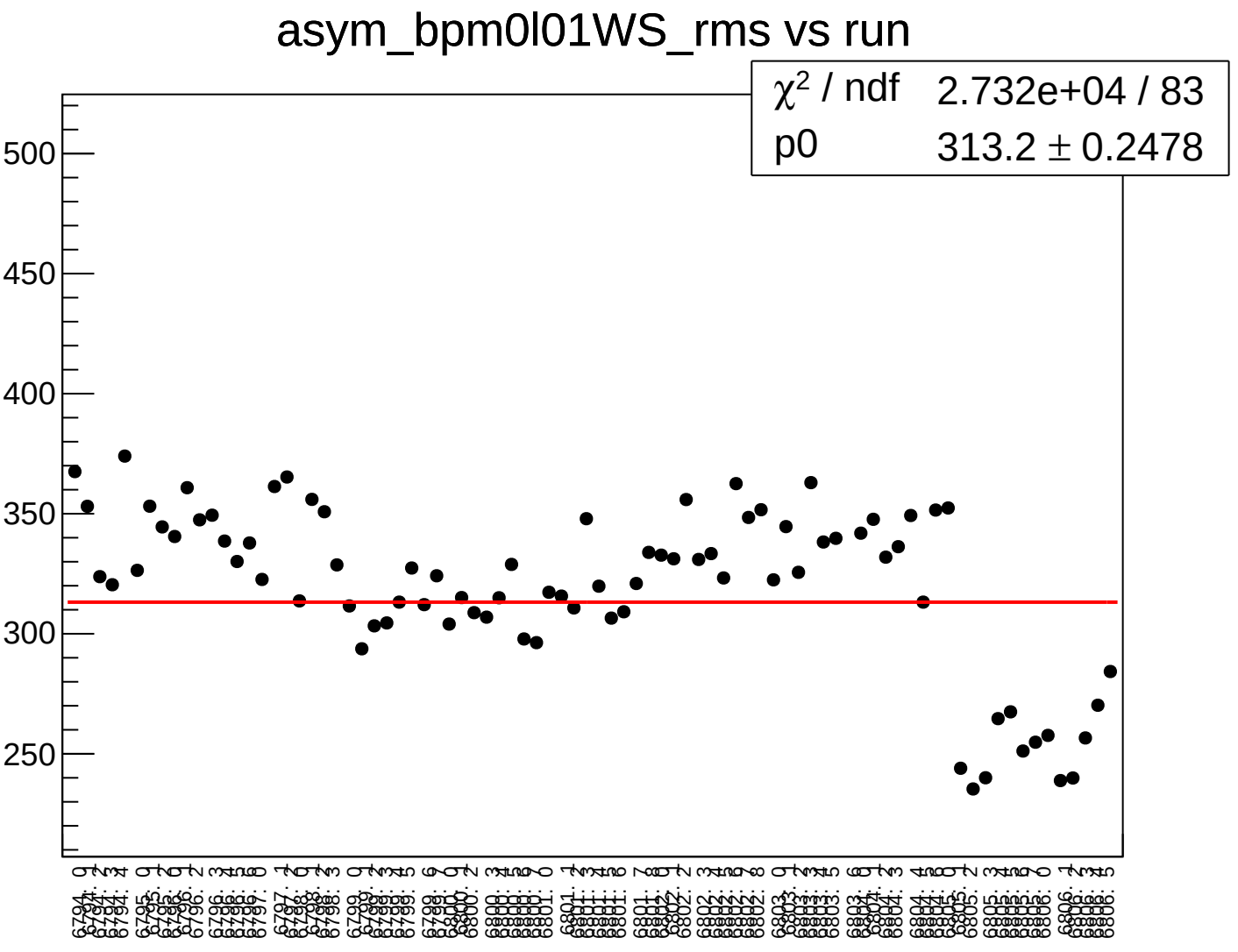

asym_bpm0i07WS_mean vs run
χ^2 / ndf 170.4 / 83
p0 4761 ± 260.5
30000
25000
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −45.02
Std Dev 67.62
6
5
4
3
2
1
0
−1
−2
−3

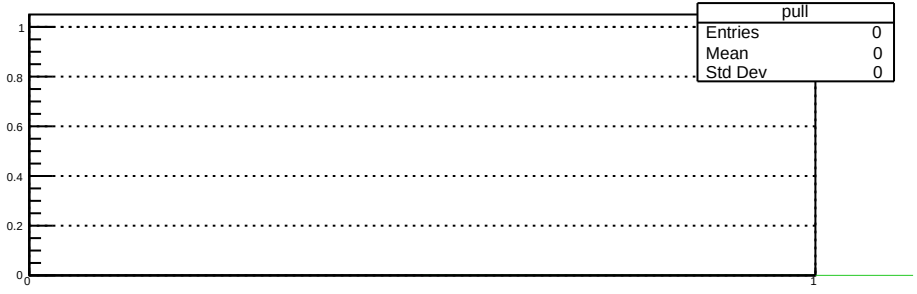

pull1D
Entries 84
Mean 0.05651
Std Dev 1.423
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

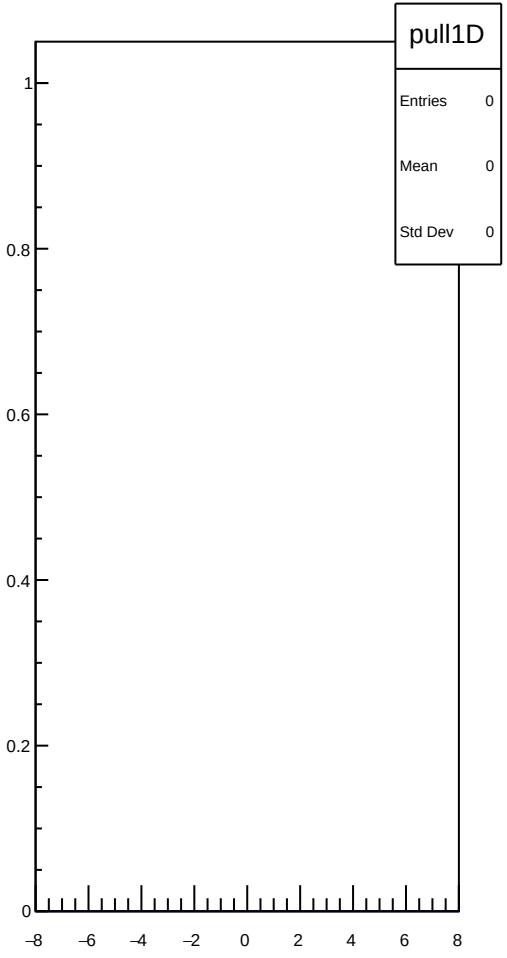

asym_bpm0i07WS_rms vs run
χ^2 / ndf 5.491e+04 / 83
p0 230.7 ± 0.1842
450
400
350
300
250
200

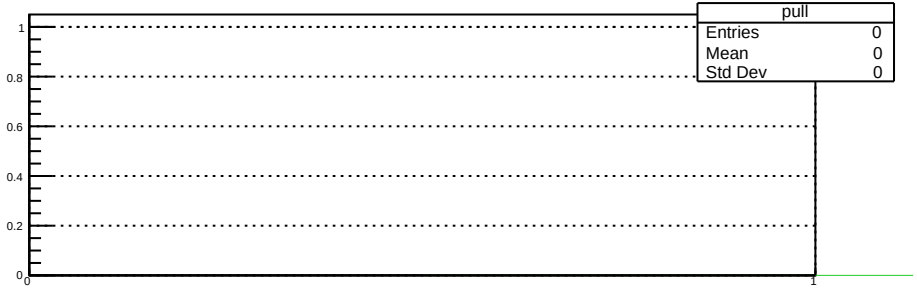

asym_bpm0l01WS_mean vs run
χ² / ndf 74.75 / 83
p0 383.4 ± 350.5
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −555.7
Std Dev 595.9
3
2
1
0
−1
−2

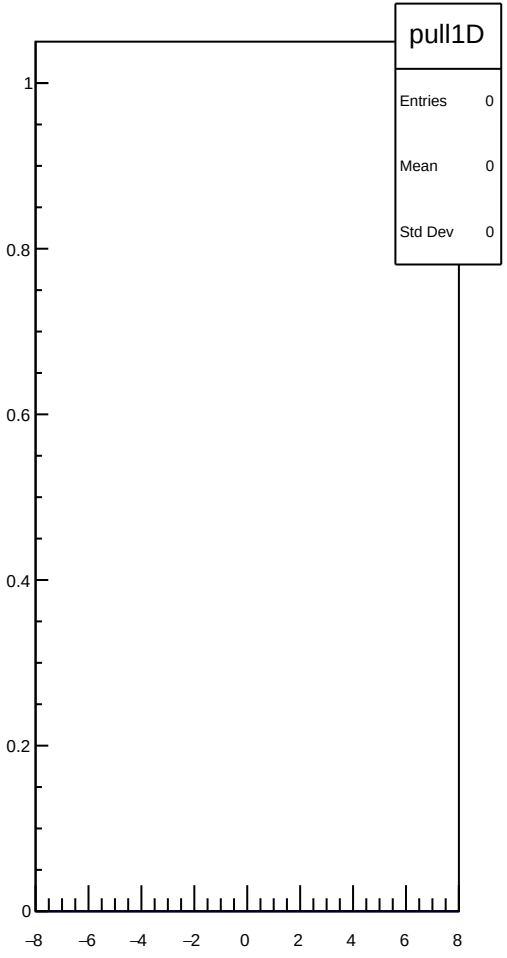

pull1D
Entries 84
Mean 0.008195
Std Dev 0.9433
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

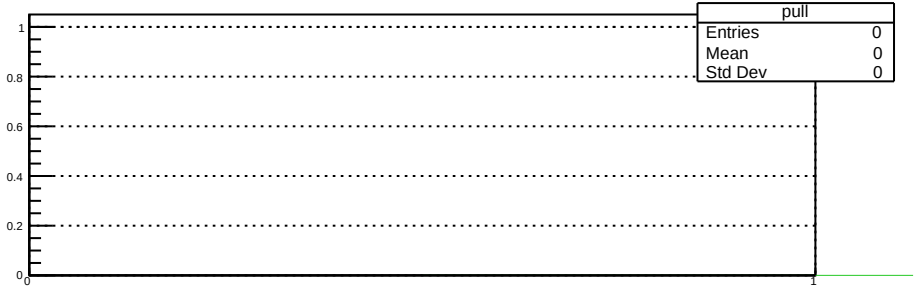

asym_bpm0l01WS_rms vs run
χ² / ndf 2.732e+04 / 83
p0 313.2 ± 0.2478
500
450
400
350
300
250

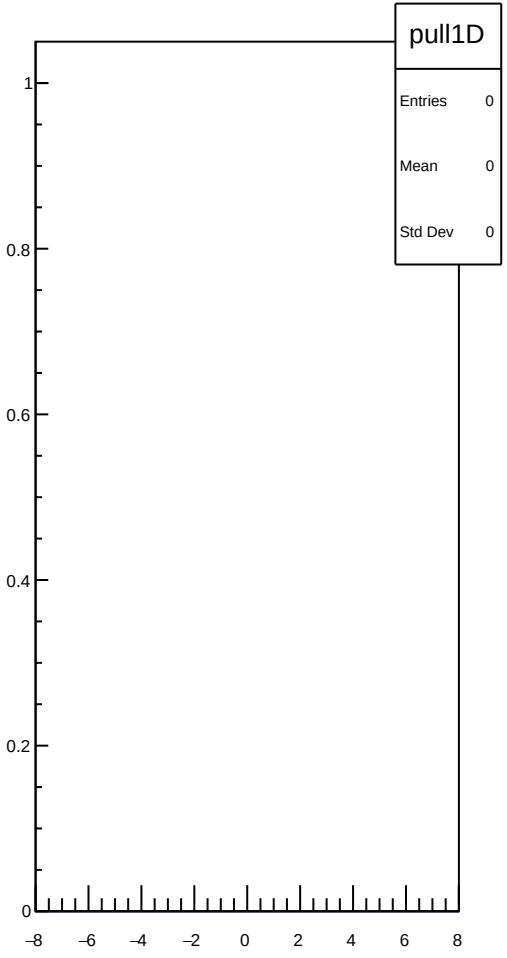

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

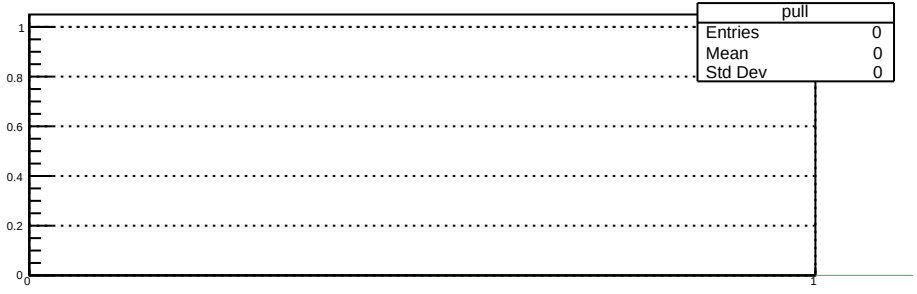

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

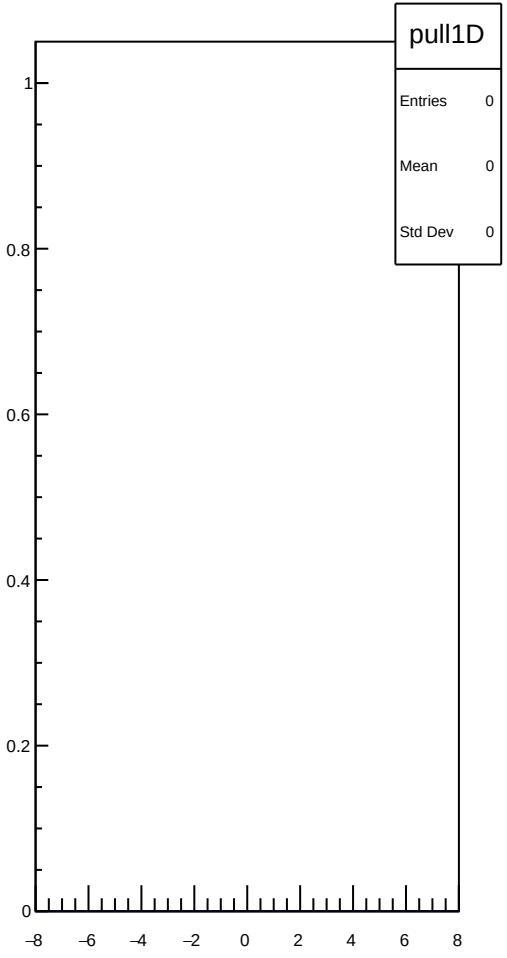

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

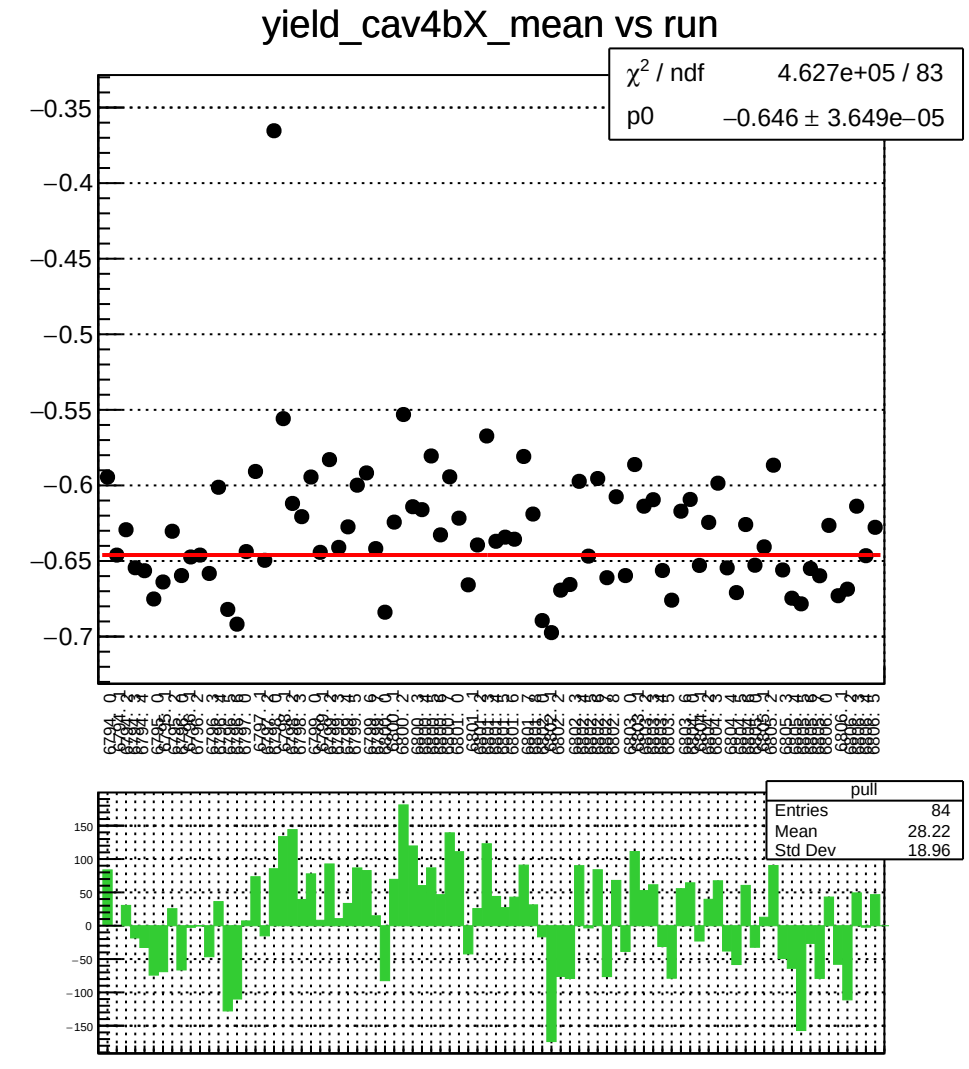

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

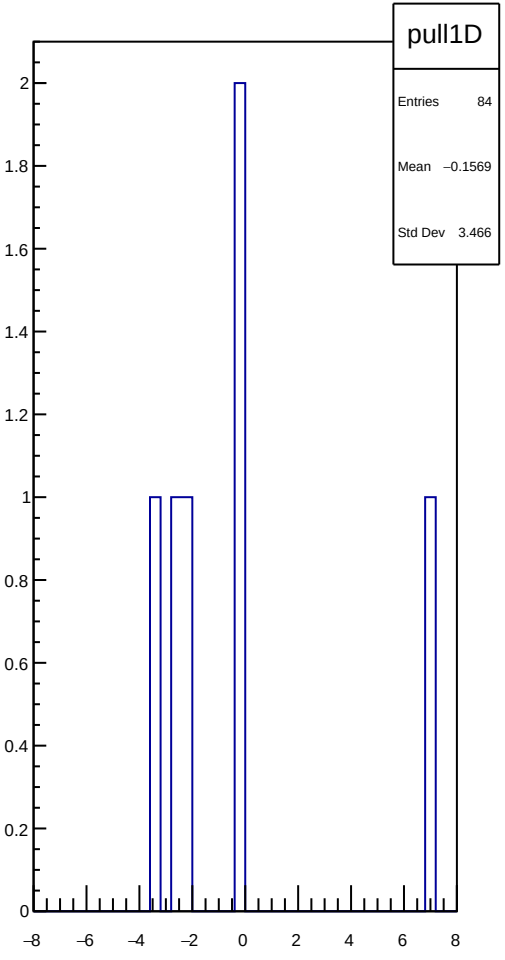

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

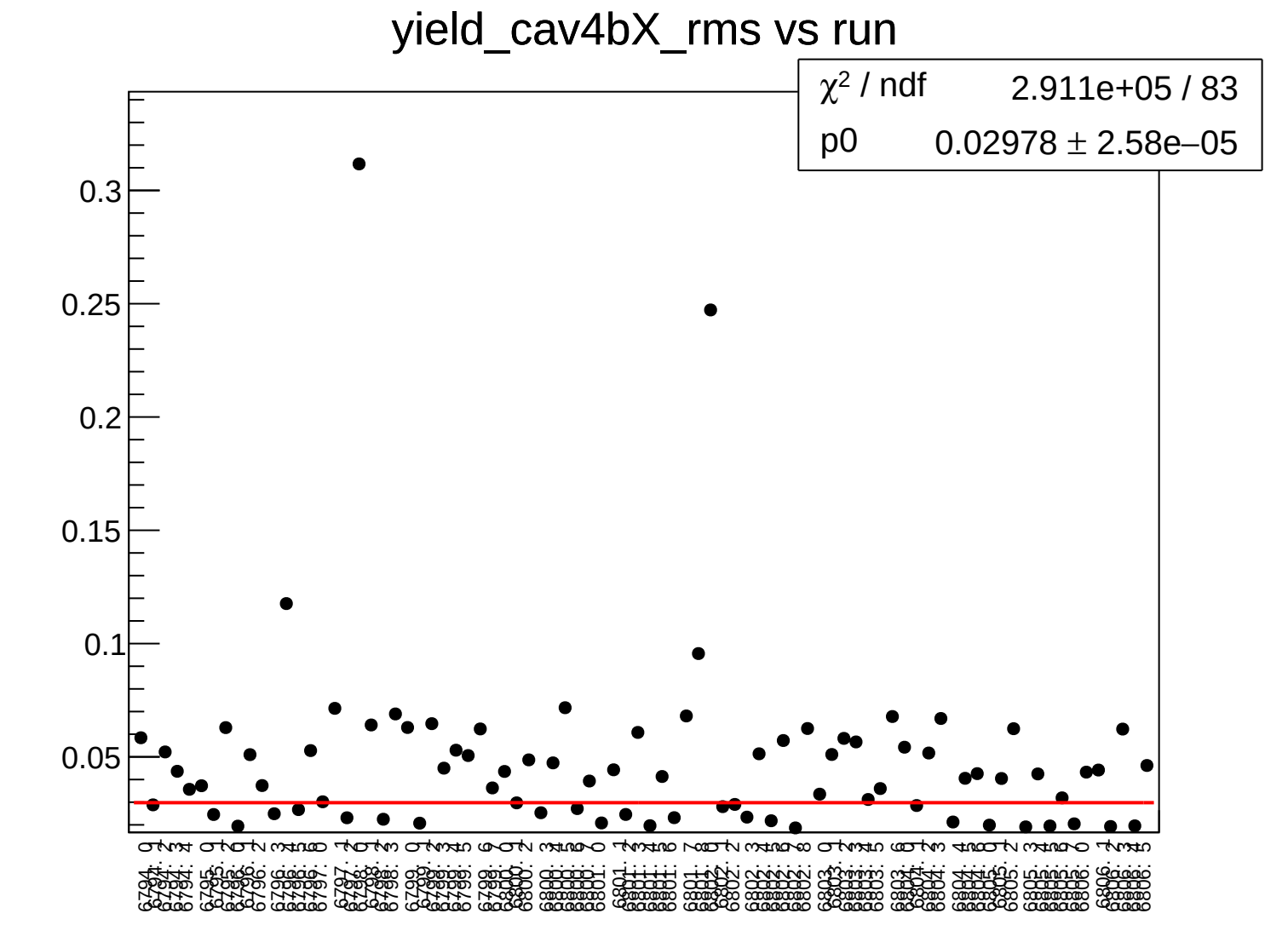

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

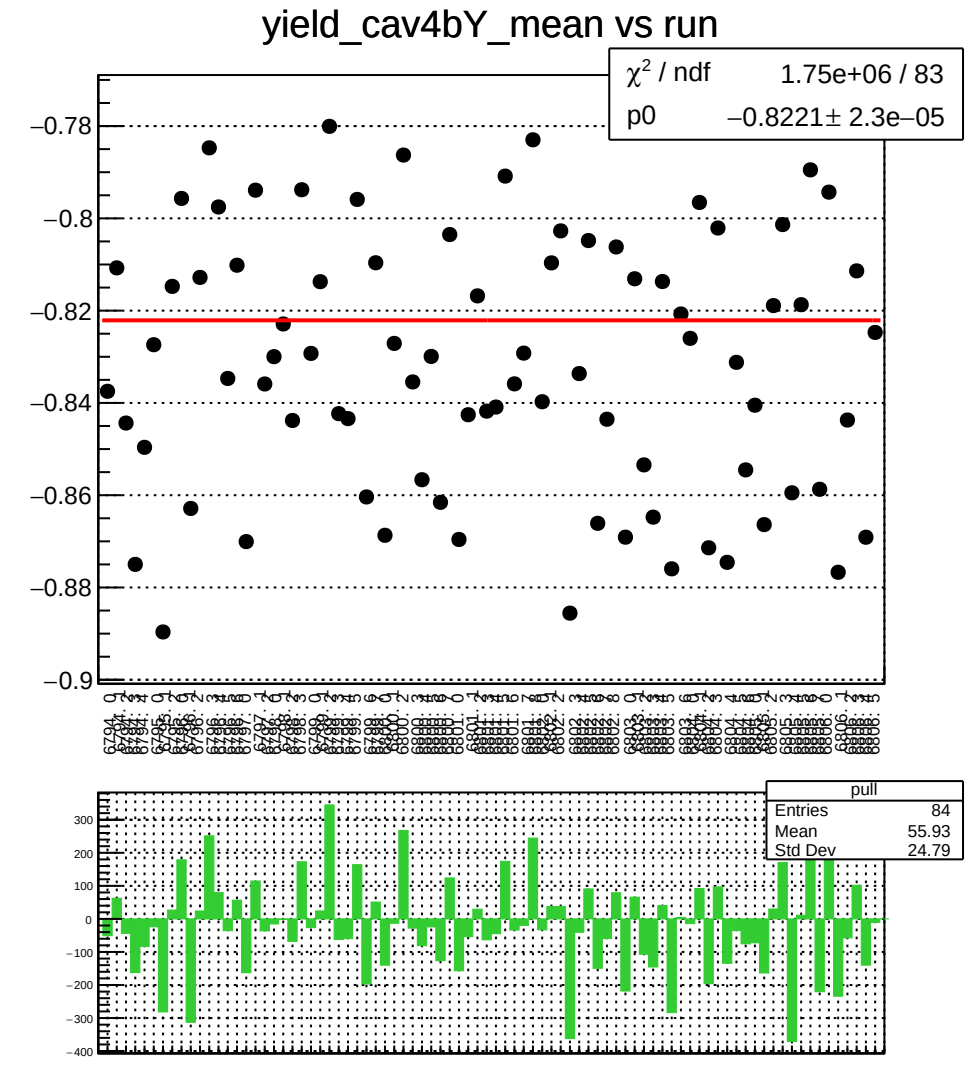

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

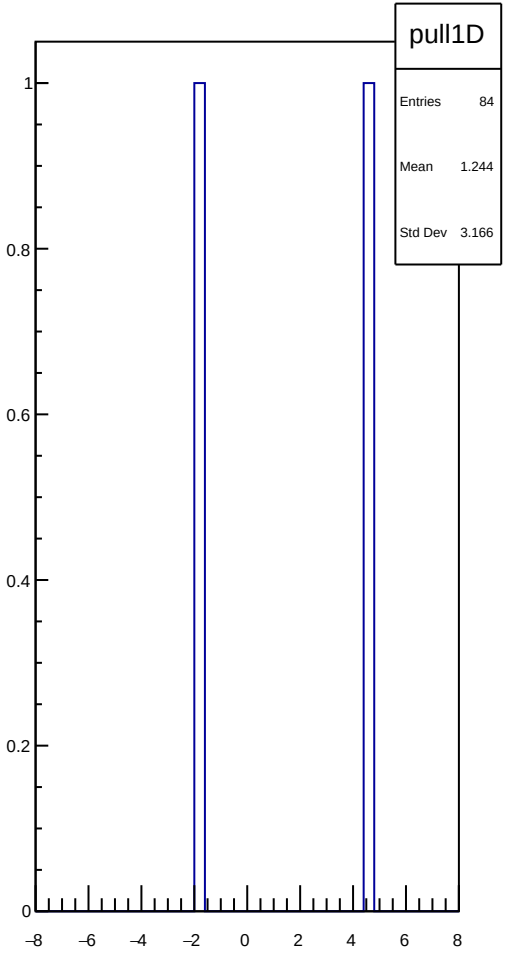

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

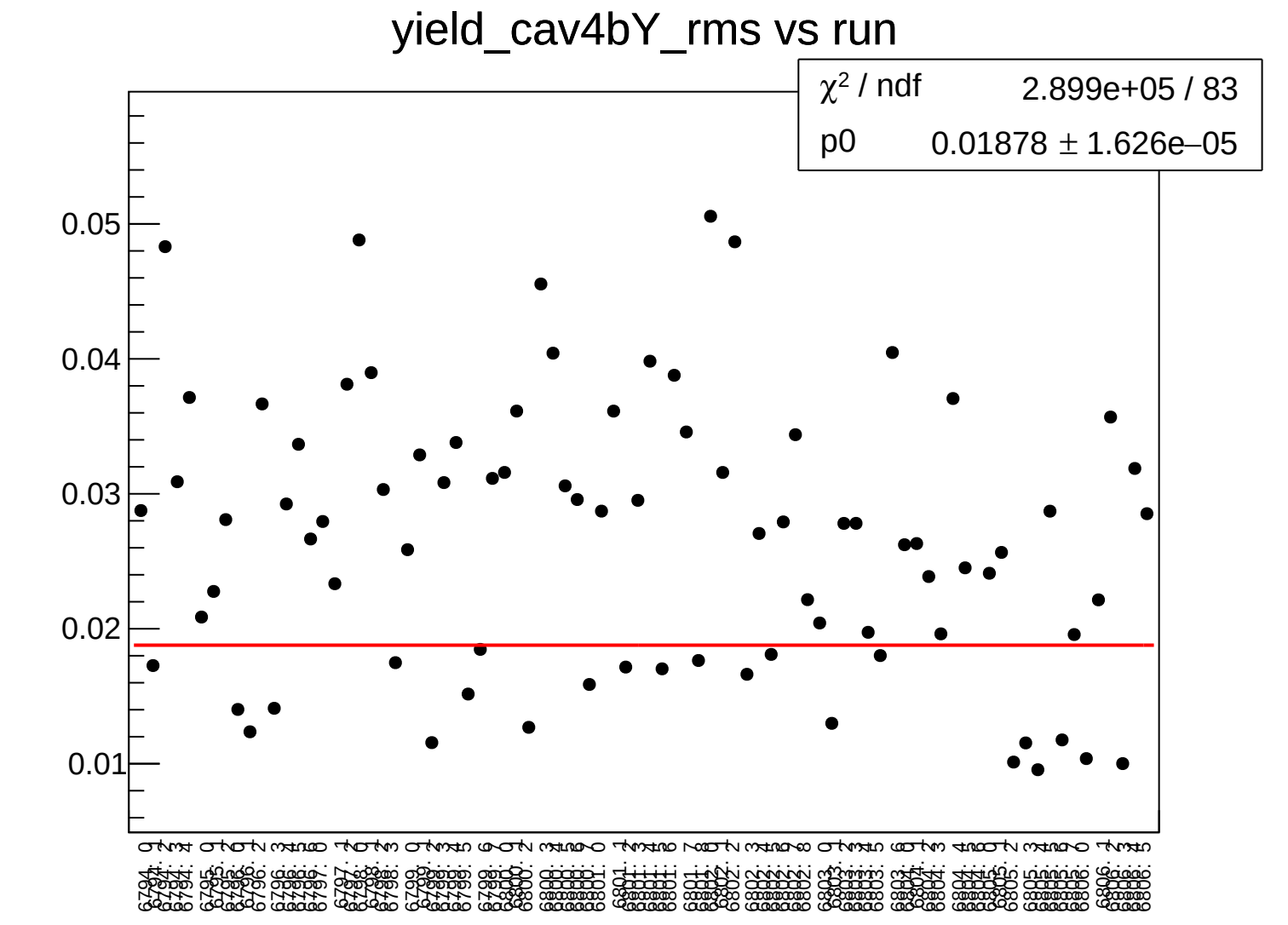

yield_cav4bX_mean vs run
χ² / ndf 4.627e+05 / 83
p0 −0.646 ± 3.649e−05
pull
Entries 84
Mean 28.22
Std Dev 18.96

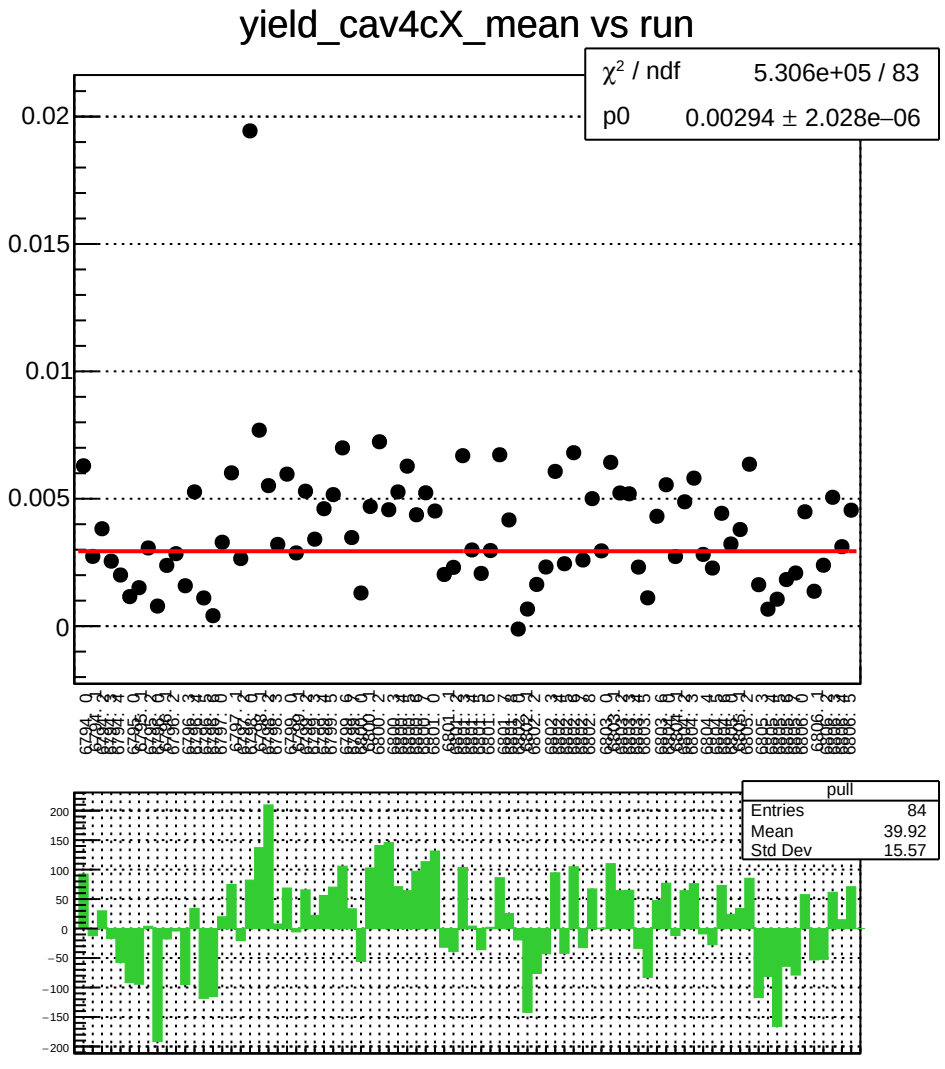

pull1D
Entries 84
Mean −0.1569
Std Dev 3.466

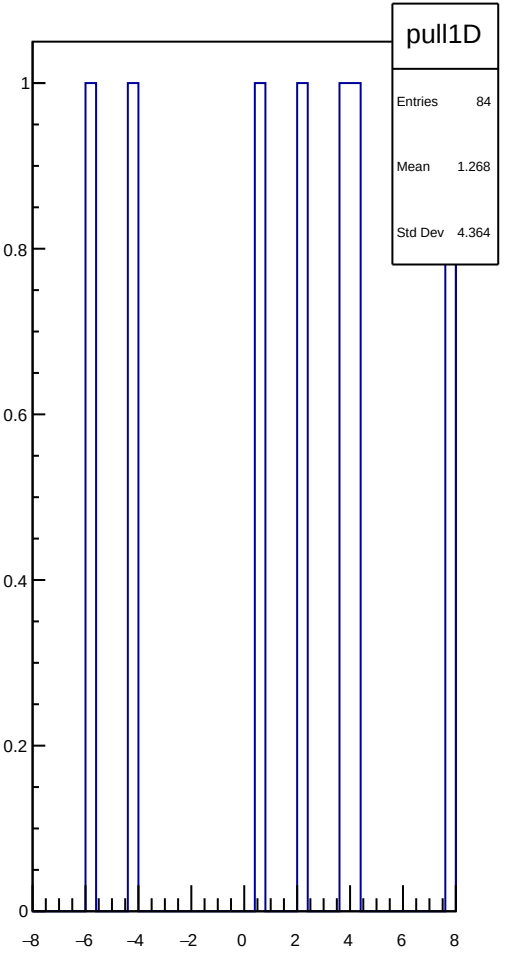

yield_cav4bX_rms vs run
χ² / ndf 2.911e+05 / 83
p0 0.02978 ± 2.58e−05
0.3
0.25
0.2
0.15
0.1
0.05

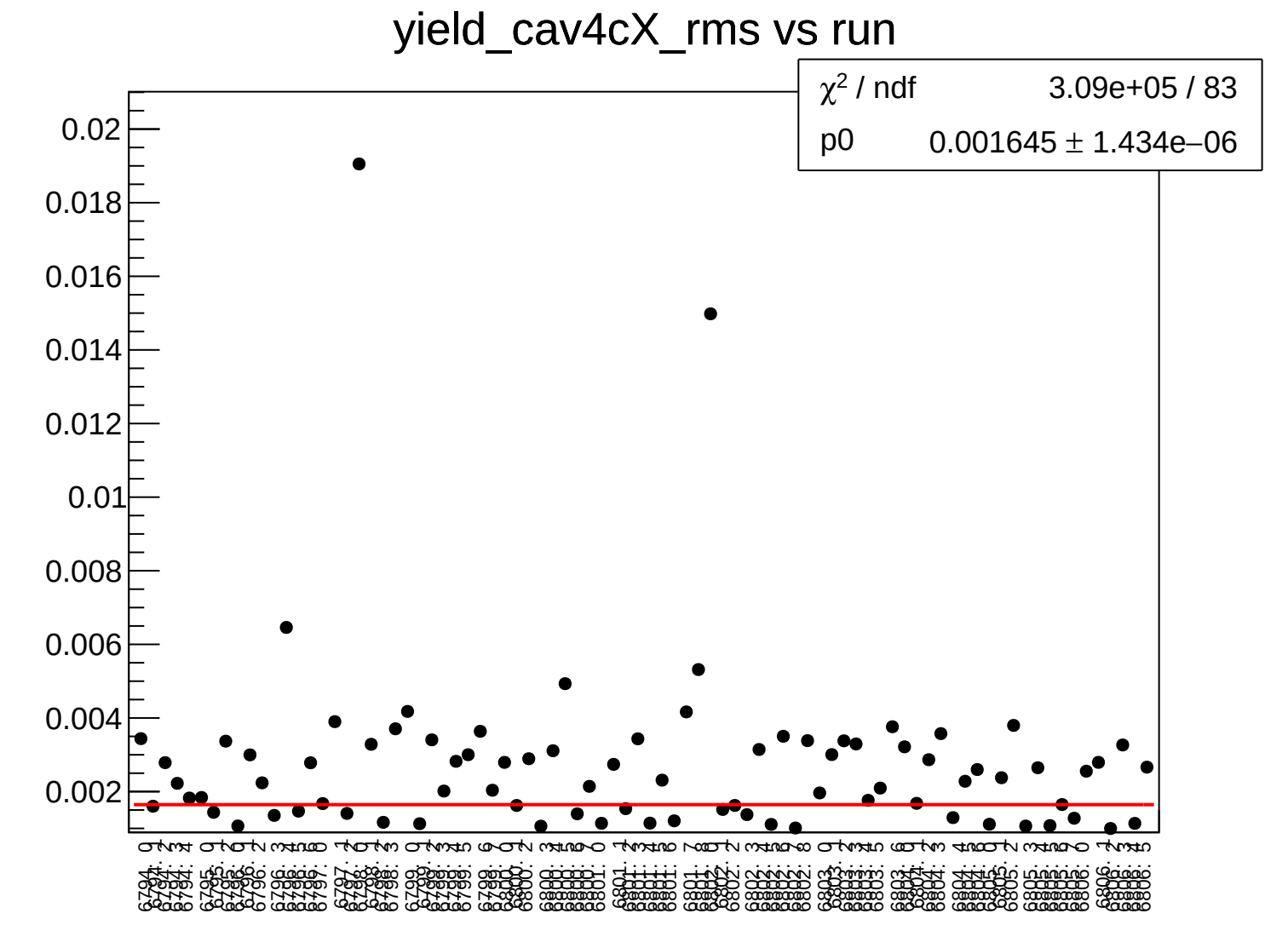

yield_cav4bY_mean vs run
χ² / ndf 1.75e+06 / 83
p0 −0.8221± 2.3e−05
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
pull
Entries 84
Mean 55.93
Std Dev 24.79
300
200
100
0
−100
−200
−300
−400

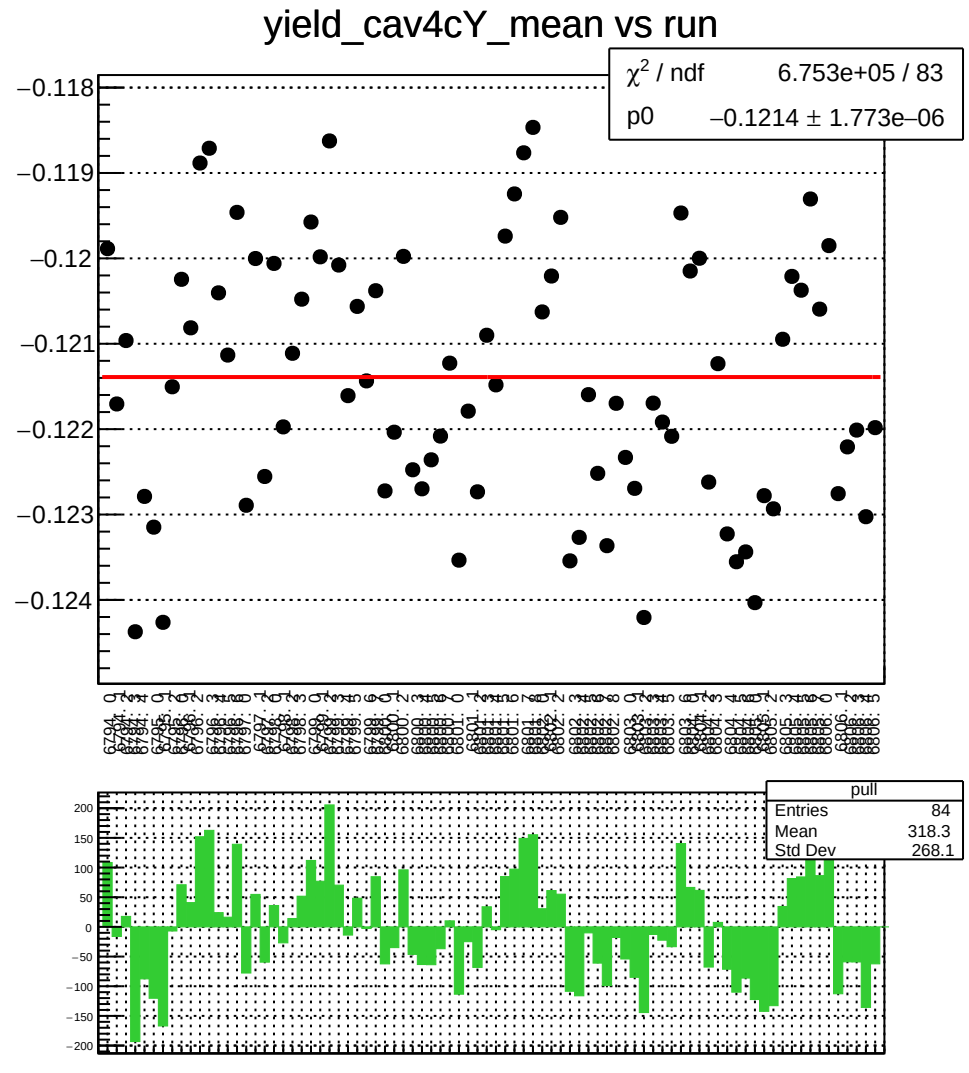

pull1D
Entries 84
Mean 1.244
Std Dev 3.166
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

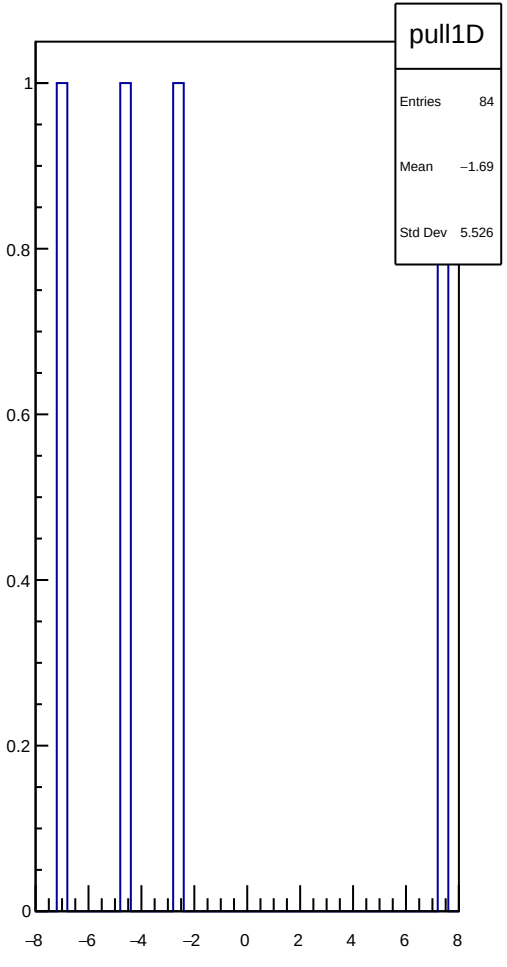

yield_cav4bY_rms vs run
χ² / ndf 2.899e+05 / 83
p0 0.01878 ± 1.626e−05
0.05
0.04
0.03
0.02
0.01

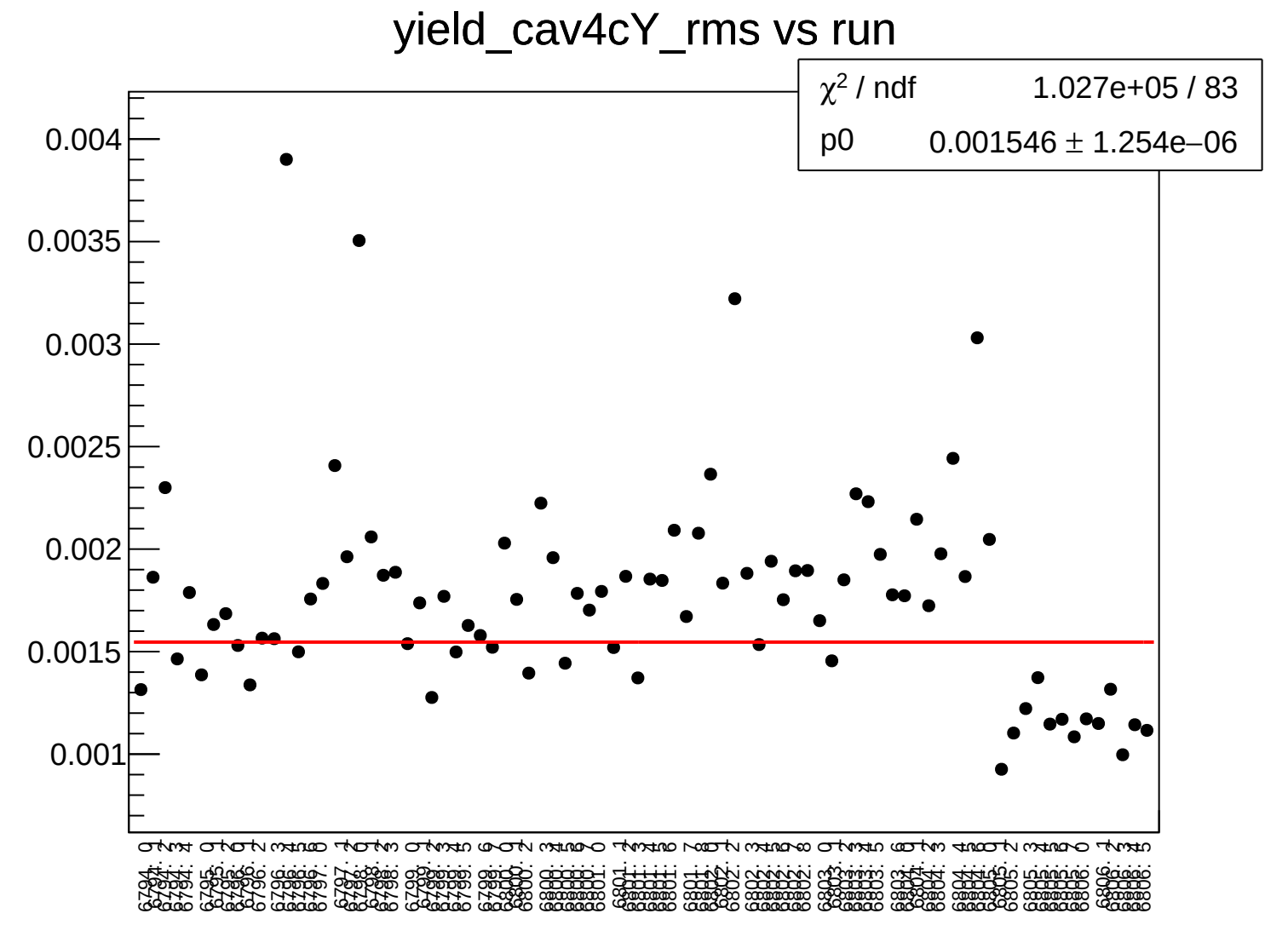

yield_cav4cX_mean vs run
χ² / ndf 5.306e+05 / 83
p0 0.00294 ± 2.028e−06
0.02
0.015
0.01
0.005
0
pull
Entries 84
Mean 39.92
Std Dev 15.57
200
150
100
50
0
−50
−100
−150
−200

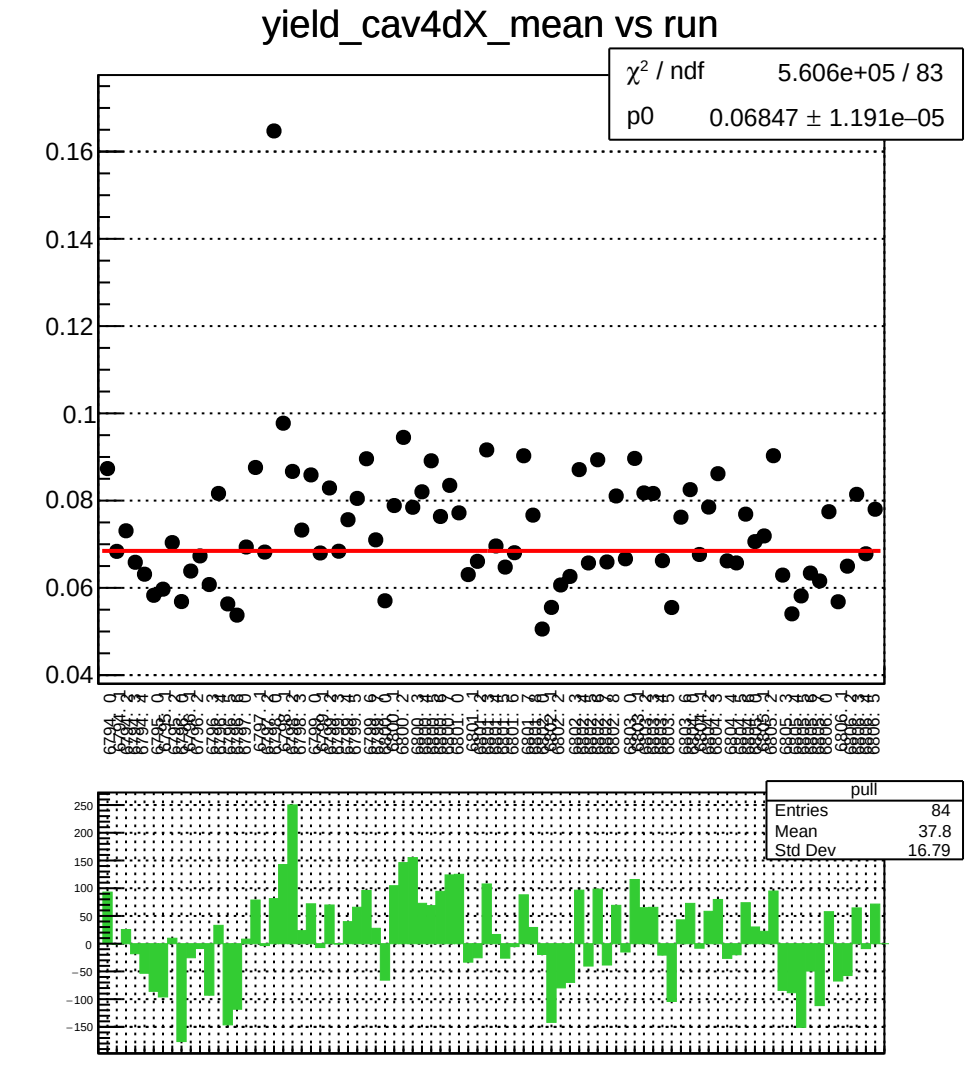

pull1D
Entries 84
Mean 1.268
Std Dev 4.364
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

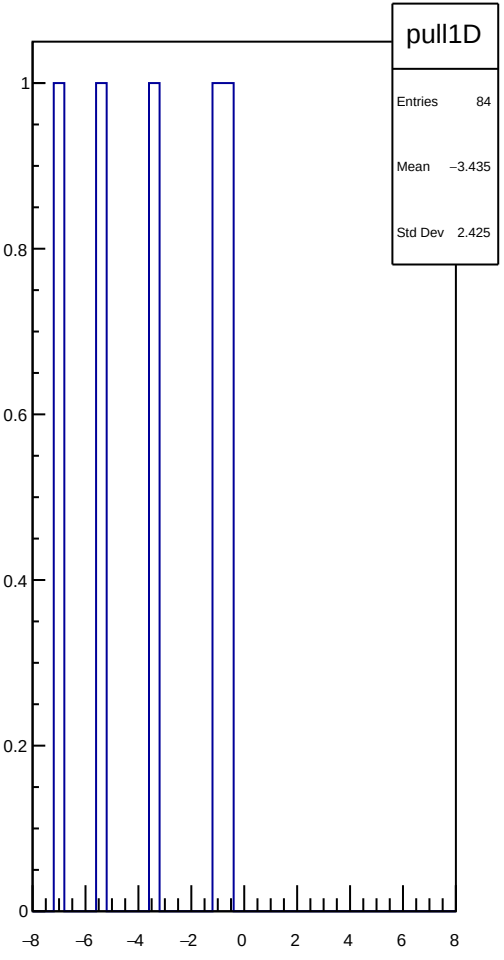

yield_cav4cX_rms vs run
χ² / ndf 3.09e+05 / 83
p0 0.001645 ± 1.434e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

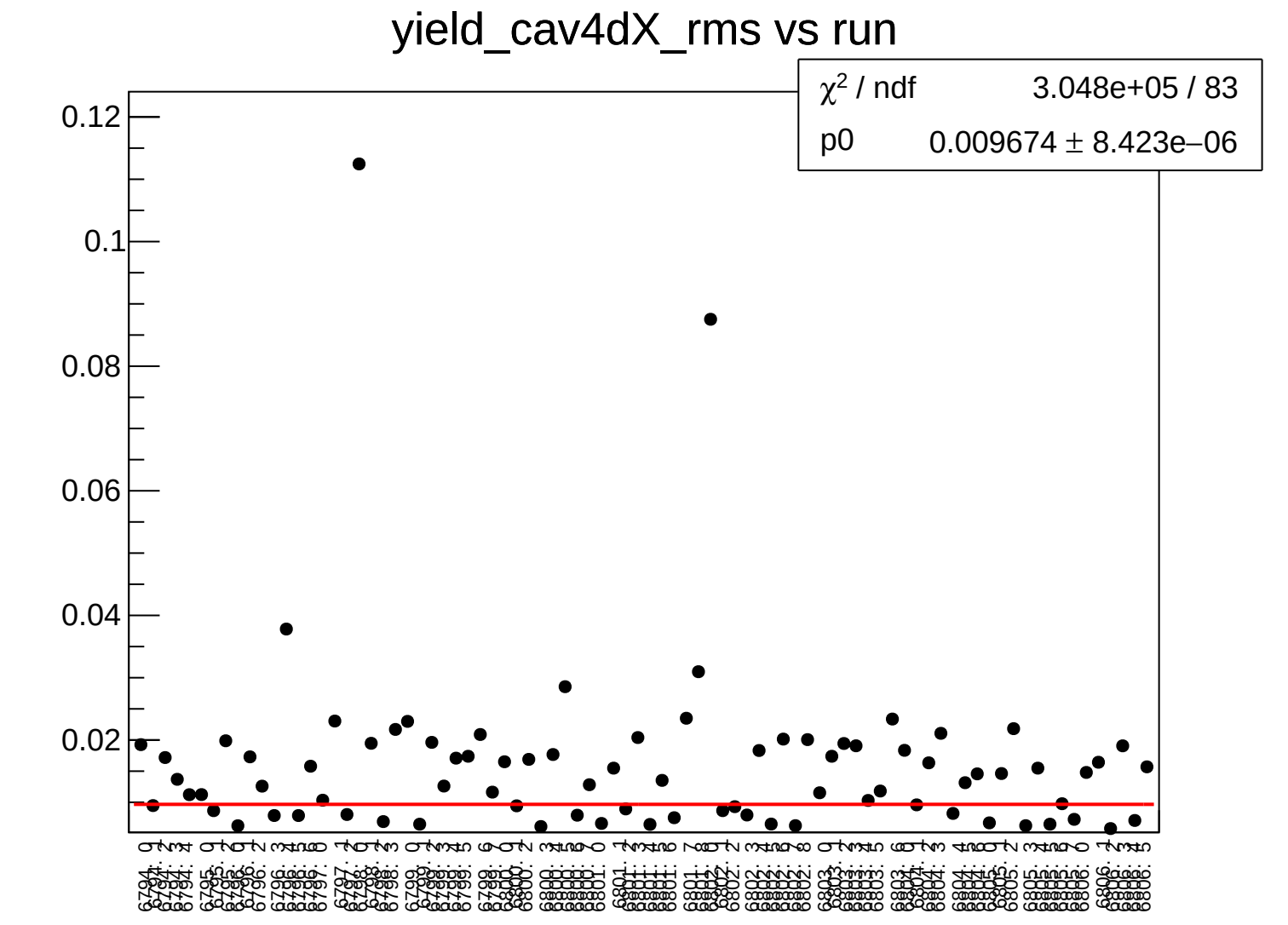

yield_cav4cY_mean vs run
χ² / ndf 6.753e+05 / 83
p0 −0.1214 ± 1.773e−06
−0.118
−0.119
−0.12
−0.121
−0.122
−0.123
−0.124
pull
Entries 84
Mean 318.3
Std Dev 268.1
200
150
100
50
0
−50
−100
−150
−200

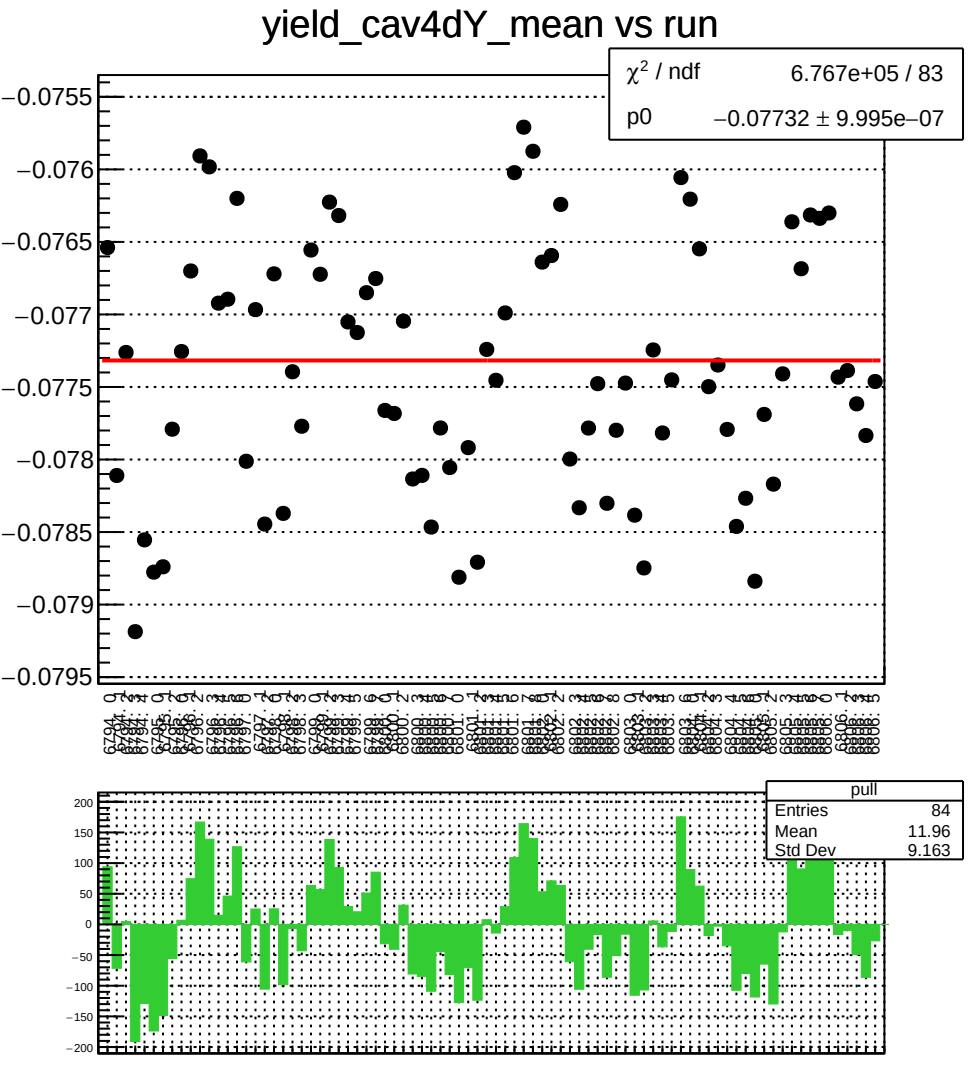

pull1D
Entries 84
Mean −1.69
Std Dev 5.526
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

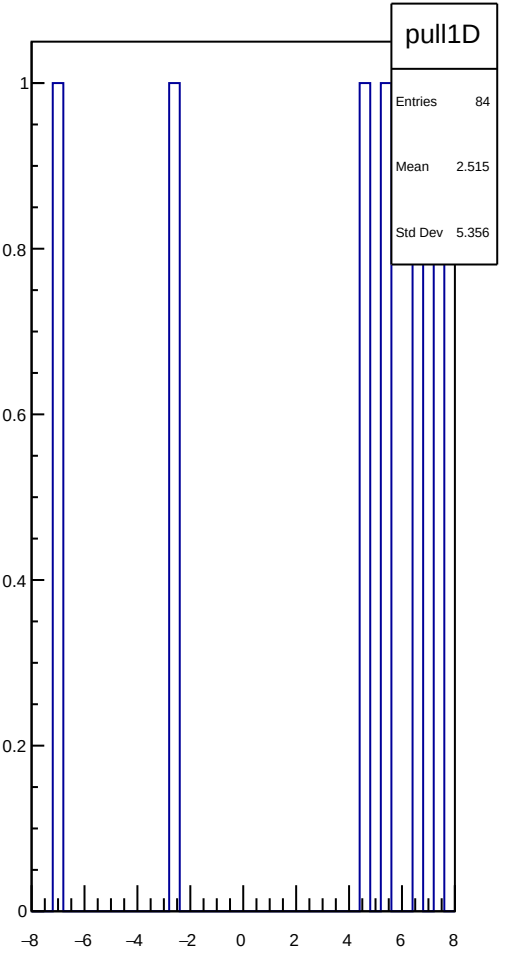

yield_cav4cY_rms vs run
χ² / ndf 1.027e+05 / 83
p0 0.001546 ± 1.254e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

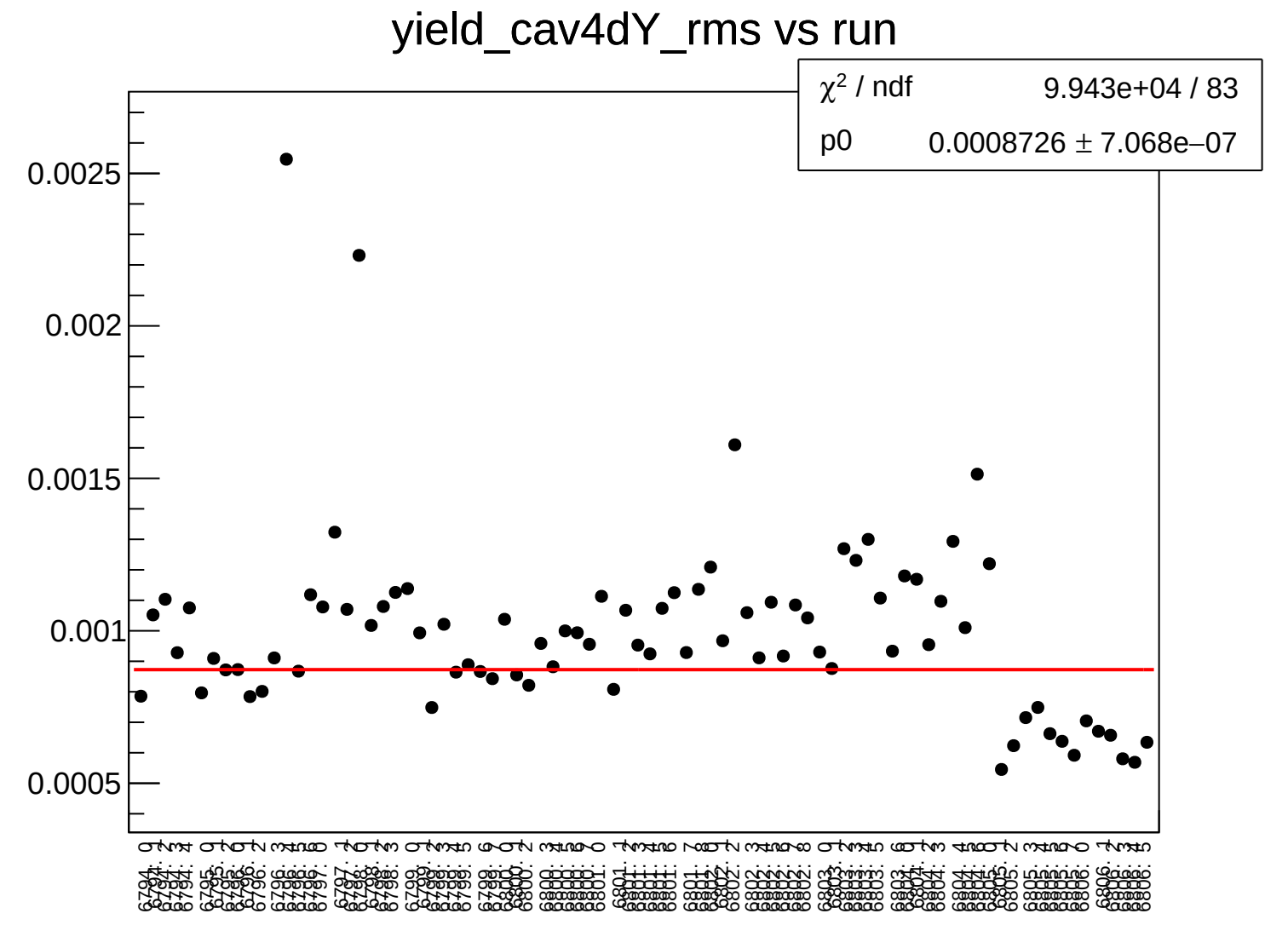

yield_cav4dX_mean vs run
χ² / ndf 5.606e+05 / 83
p0 0.06847 ± 1.191e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
pull
Entries 84
Mean 37.8
Std Dev 16.79
250
200
150
100
50
0
−50
−100
−150

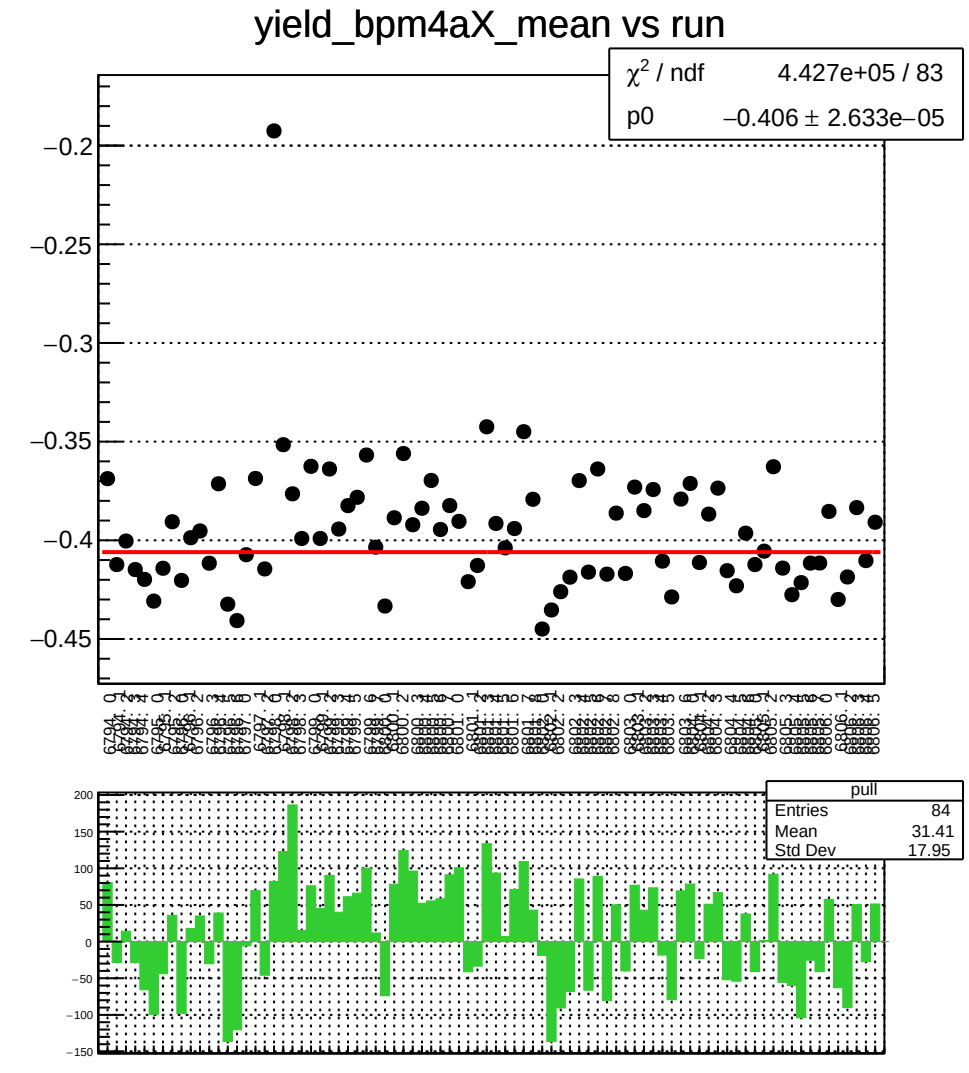

pull1D
Entries 84
Mean −3.435
Std Dev 2.425
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

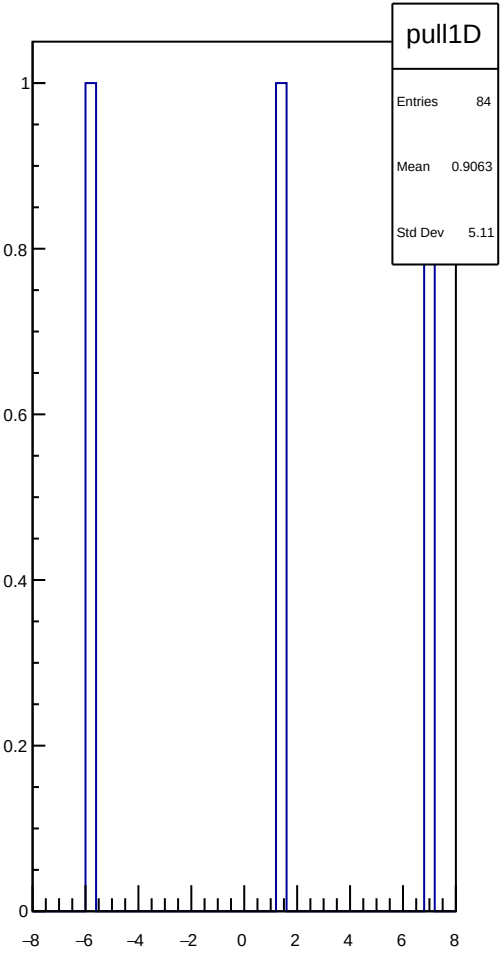

yield_cav4dX_rms vs run
χ² / ndf 3.048e+05 / 83
p0 0.009674 ± 8.423e−06
0.12
0.1
0.08
0.06
0.04
0.02

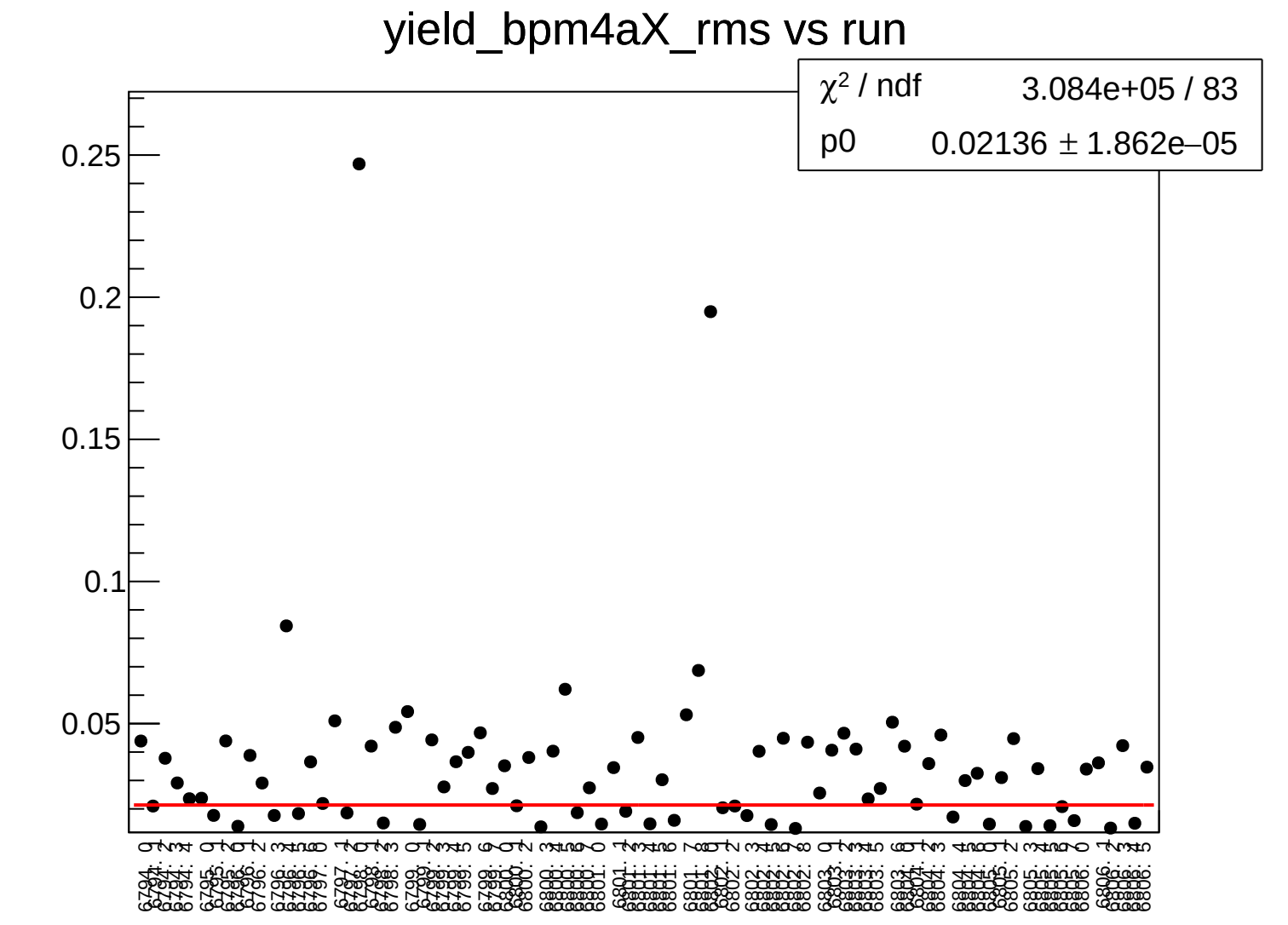

yield_cav4dY_mean vs run
χ² / ndf 6.767e+05 / 83
p0 −0.07732 ± 9.995e−07
−0.0755
−0.076
−0.0765
−0.077
−0.0775
−0.078
−0.0785
−0.079
−0.0795
pull
Entries 84
Mean 11.96
Std Dev 9.163
200
150
100
50
0
−50
−100
−150
−200

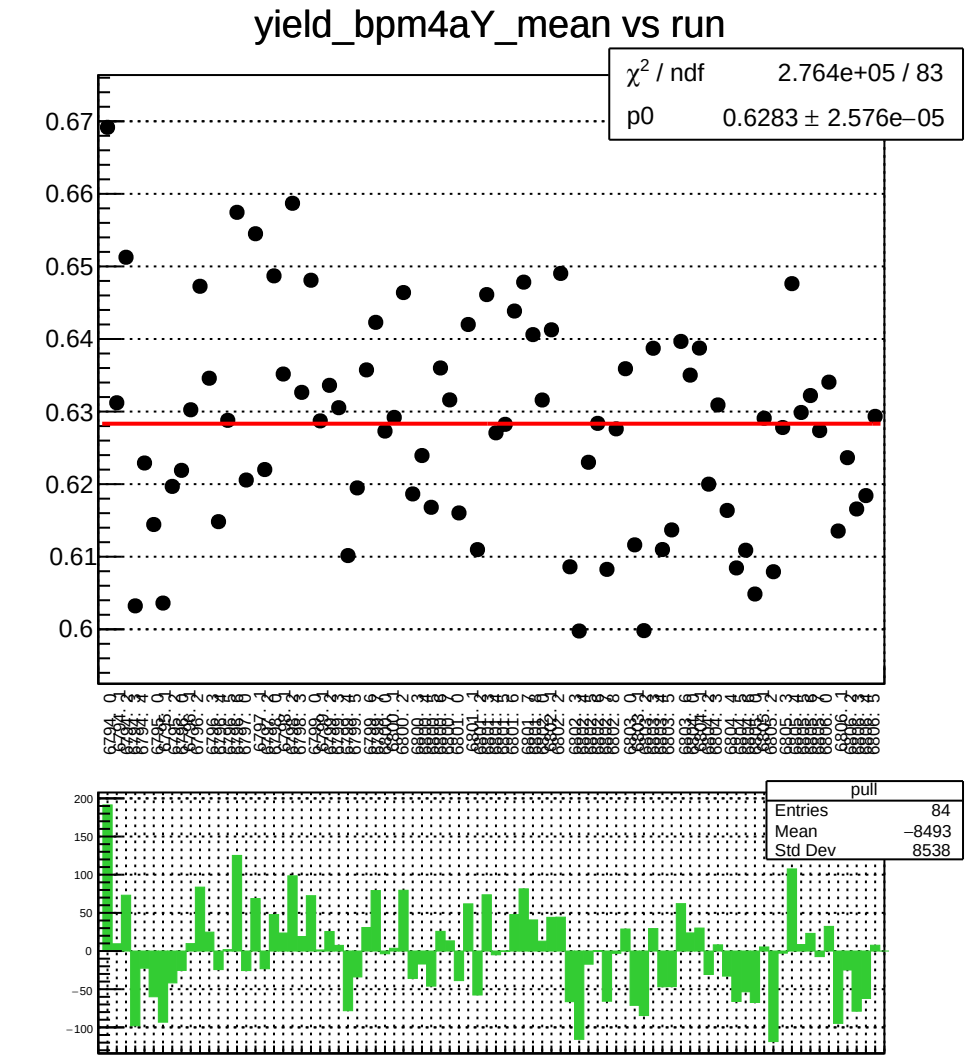

pull1D
Entries 84
Mean 2.515
Std Dev 5.356
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

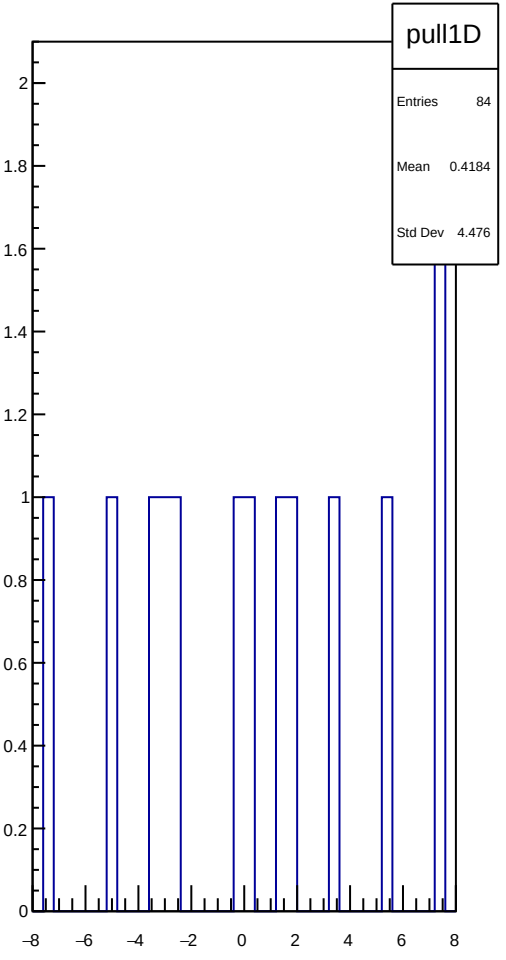

yield_cav4dY_rms vs run
χ² / ndf 9.943e+04 / 83
p0 0.0008726 ± 7.068e−07
0.0025
0.002
0.0015
0.001
0.0005

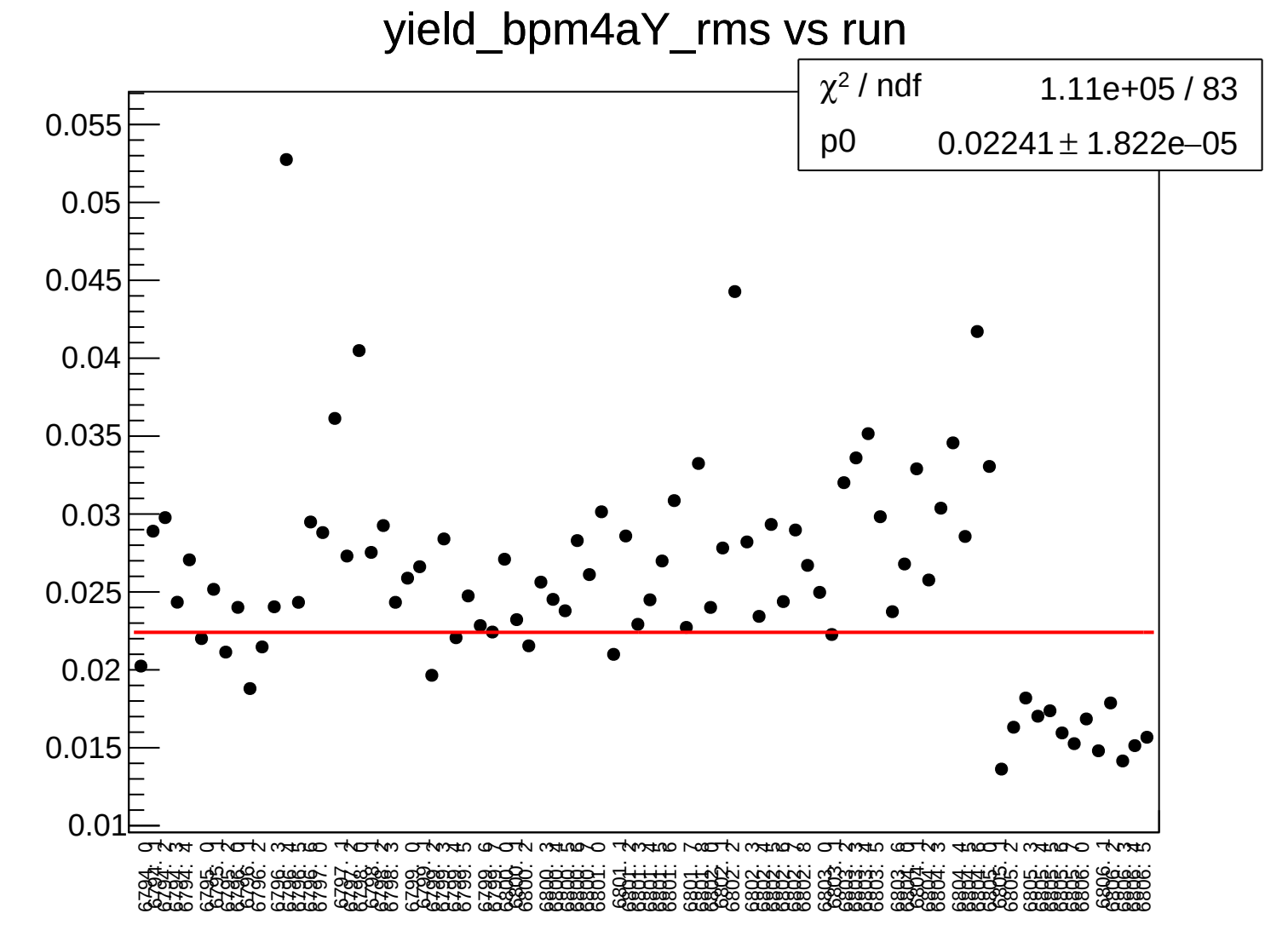

yield_bpm4aX_mean vs run
χ² / ndf 4.427e+05 / 83
p0 −0.406 ± 2.633e−05
−0.2
−0.25
−0.3
−0.35
−0.4
−0.45
pull
Entries 84
Mean 31.41
Std Dev 17.95
200
150
100
50
0
−50
−100
−150

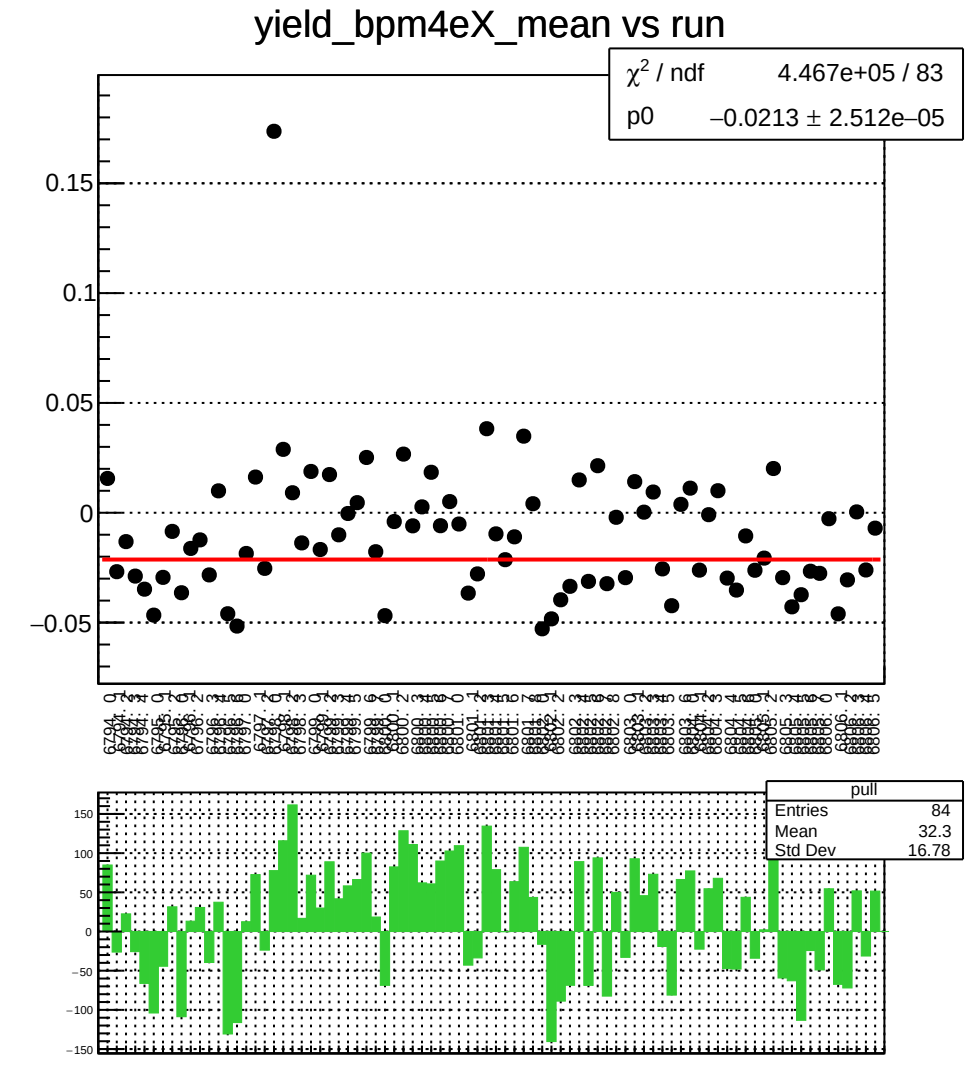

pull1D
Entries 84
Mean 0.9063
Std Dev 5.11
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

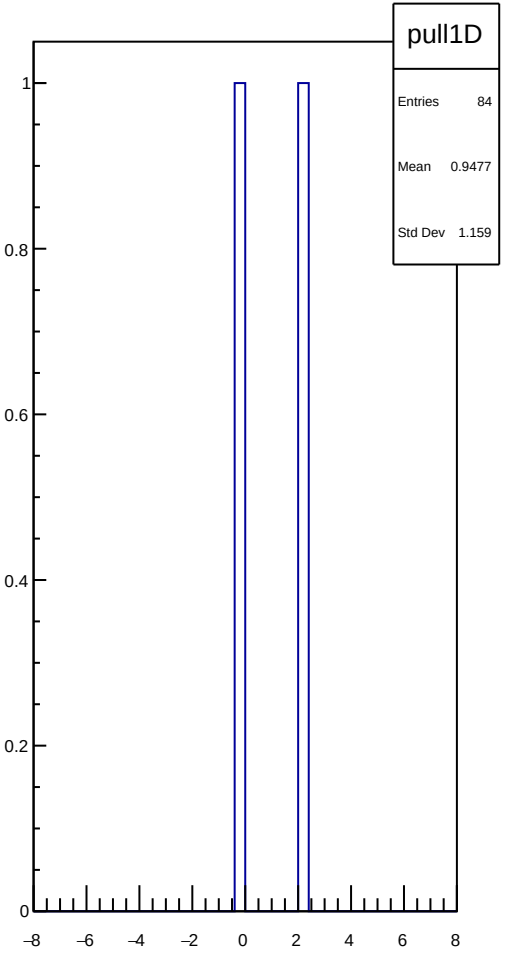

yield_bpm4aX_rms vs run
χ² / ndf 3.084e+05 / 83
p0 0.02136 ± 1.862e–05
0.25
0.2
0.15
0.1
0.05

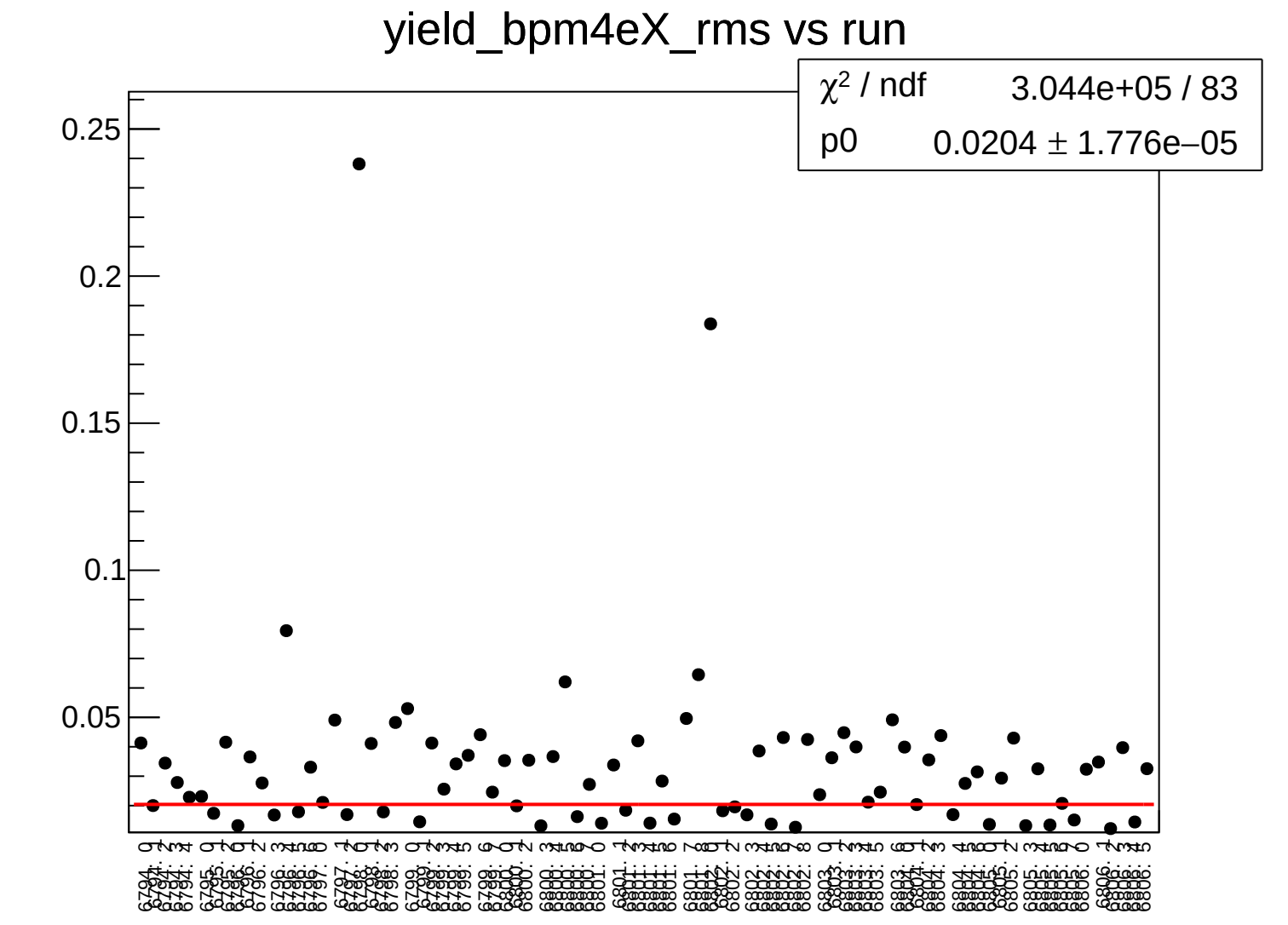

yield_bpm4aY_mean vs run
χ² / ndf 2.764e+05 / 83
p0 0.6283 ± 2.576e−05
0.67
0.66
0.65
0.64
0.63
0.62
0.61
0.6
pull
Entries 84
Mean −8493
Std Dev 8538
200
150
100
50
0
−50
−100

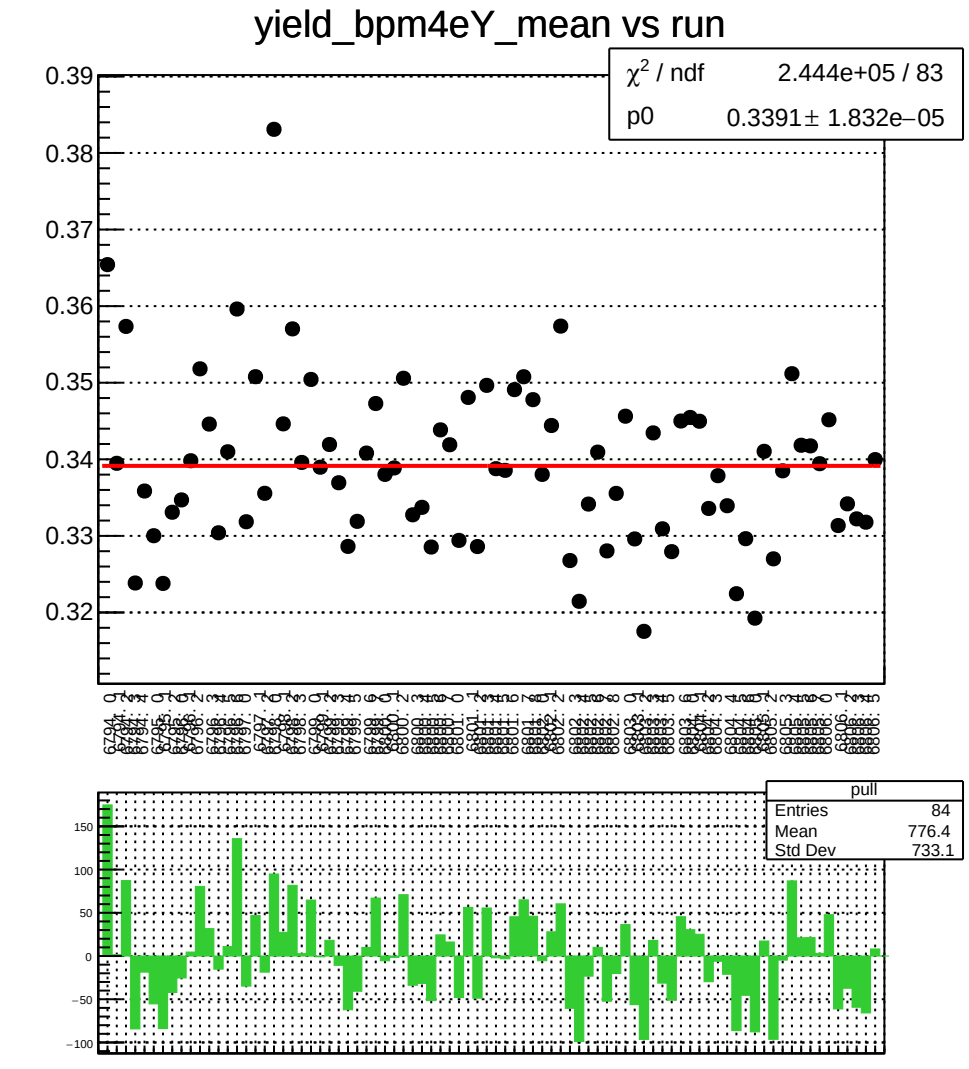

pull1D
Entries 84
Mean 0.4184
Std Dev 4.476
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

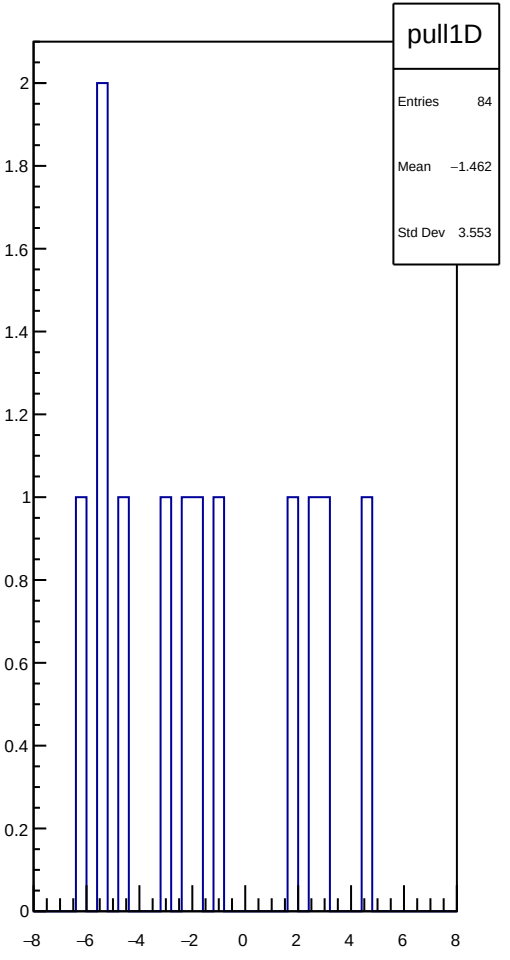

yield_bpm4aY_rms vs run
χ² / ndf 1.11e+05 / 83
p0 0.02241 ± 1.822e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

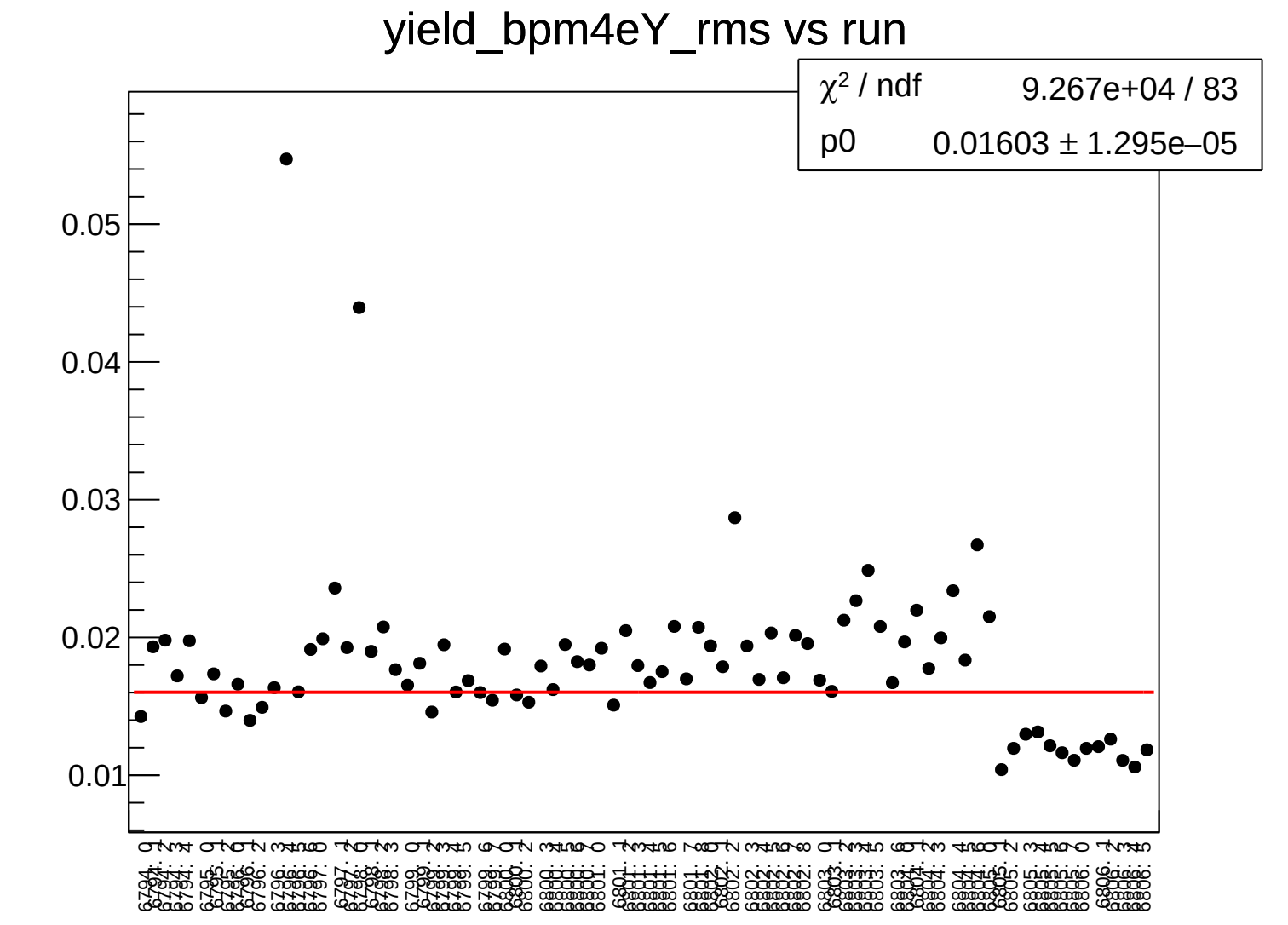

yield_bpm4eX_mean vs run
χ² / ndf 4.467e+05 / 83
p0 −0.0213 ± 2.512e−05
0.15
0.1
0.05
0
−0.05
pull
Entries 84
Mean 32.3
Std Dev 16.78
150
100
50
0
−50
−100
−150

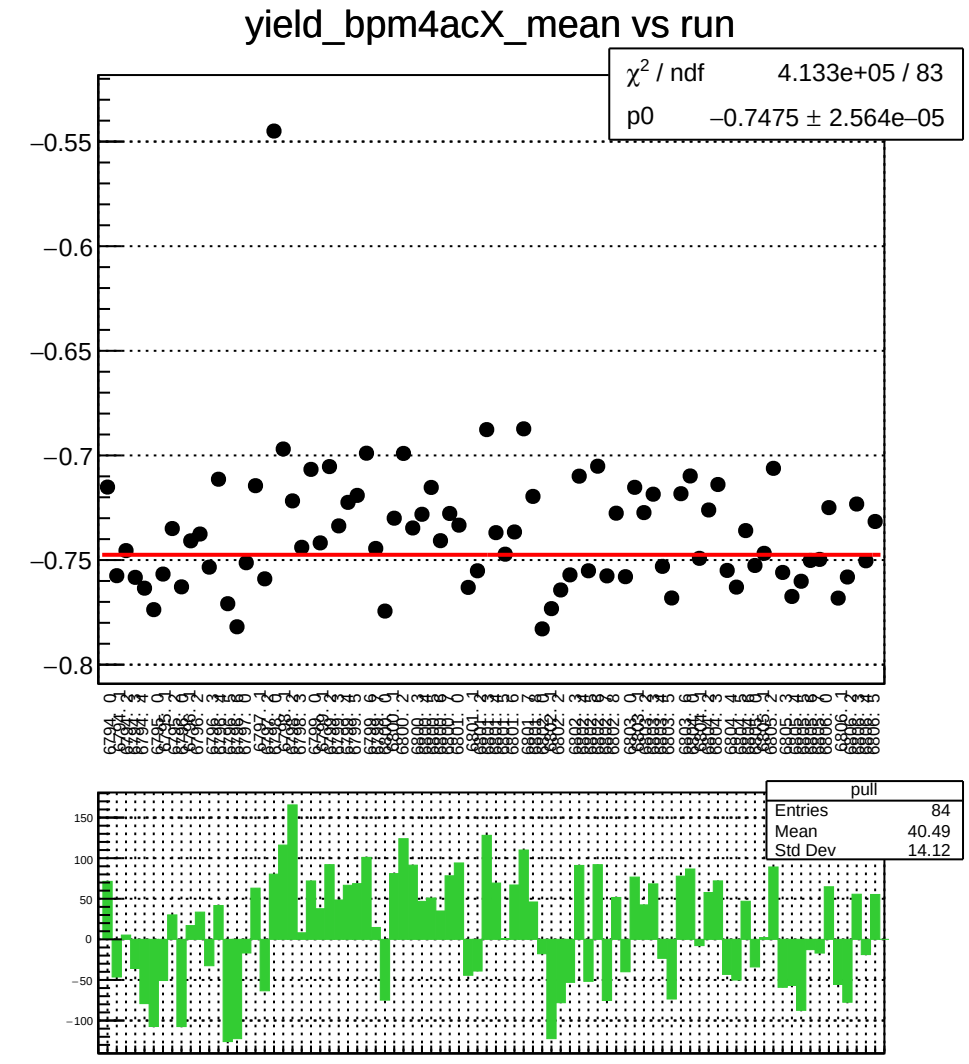

pull1D
Entries 84
Mean 0.9477
Std Dev 1.159
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

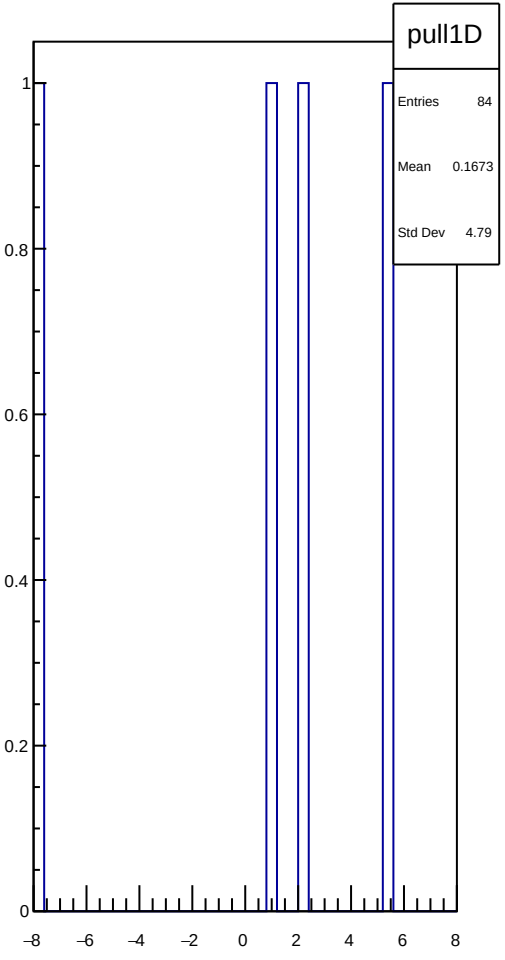

yield_bpm4eX_rms vs run
χ² / ndf 3.044e+05 / 83
p0 0.0204 ± 1.776e−05
0.25
0.2
0.15
0.1
0.05

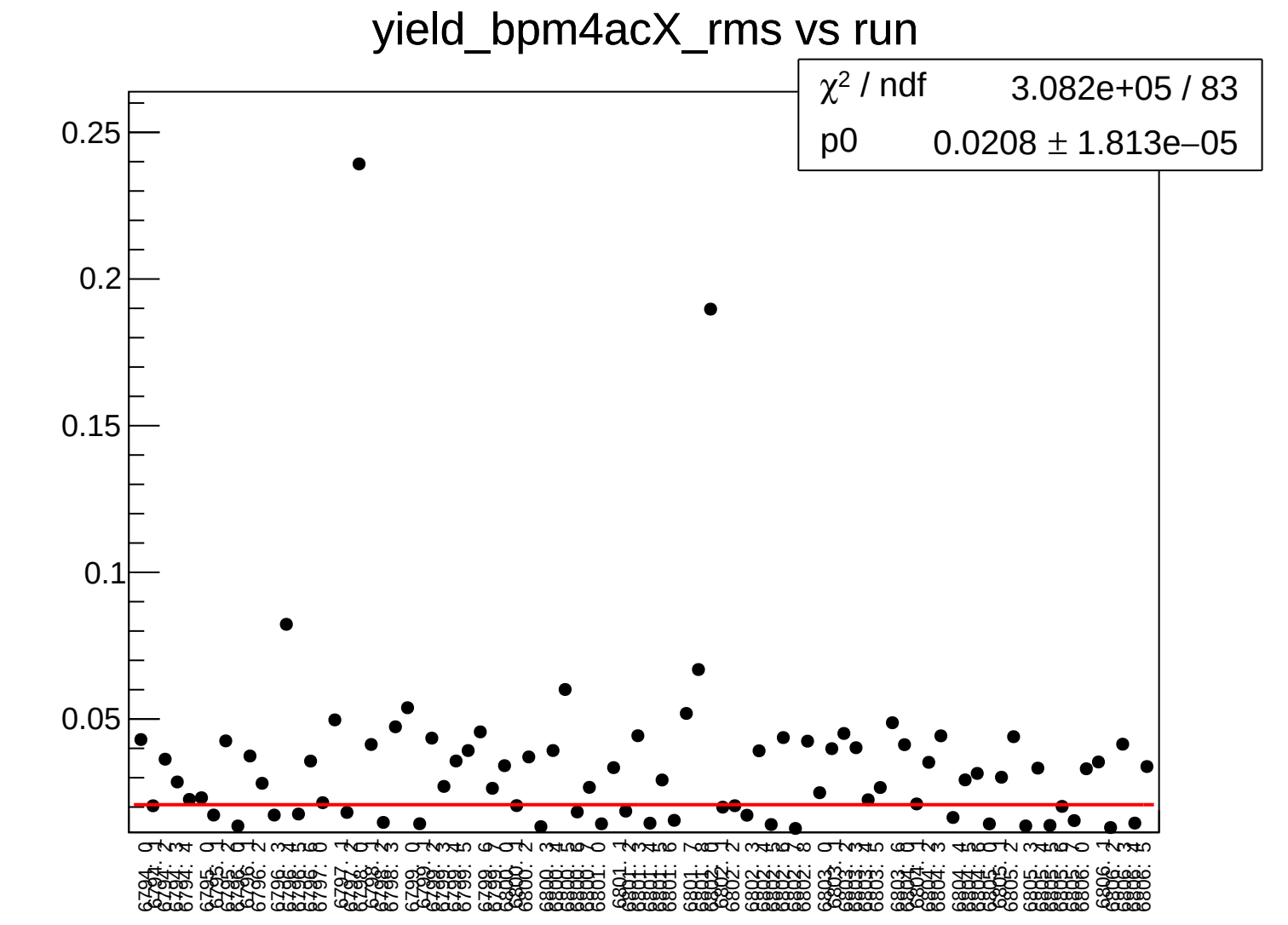

yield_bpm4eY_mean vs run
χ² / ndf 2.444e+05 / 83
p0 0.3391 ± 1.832e−05
0.39
0.38
0.37
0.36
0.35
0.34
0.33
0.32
pull
Entries 84
Mean 776.4
Std Dev 733.1
150
100
50
0
−50
−100

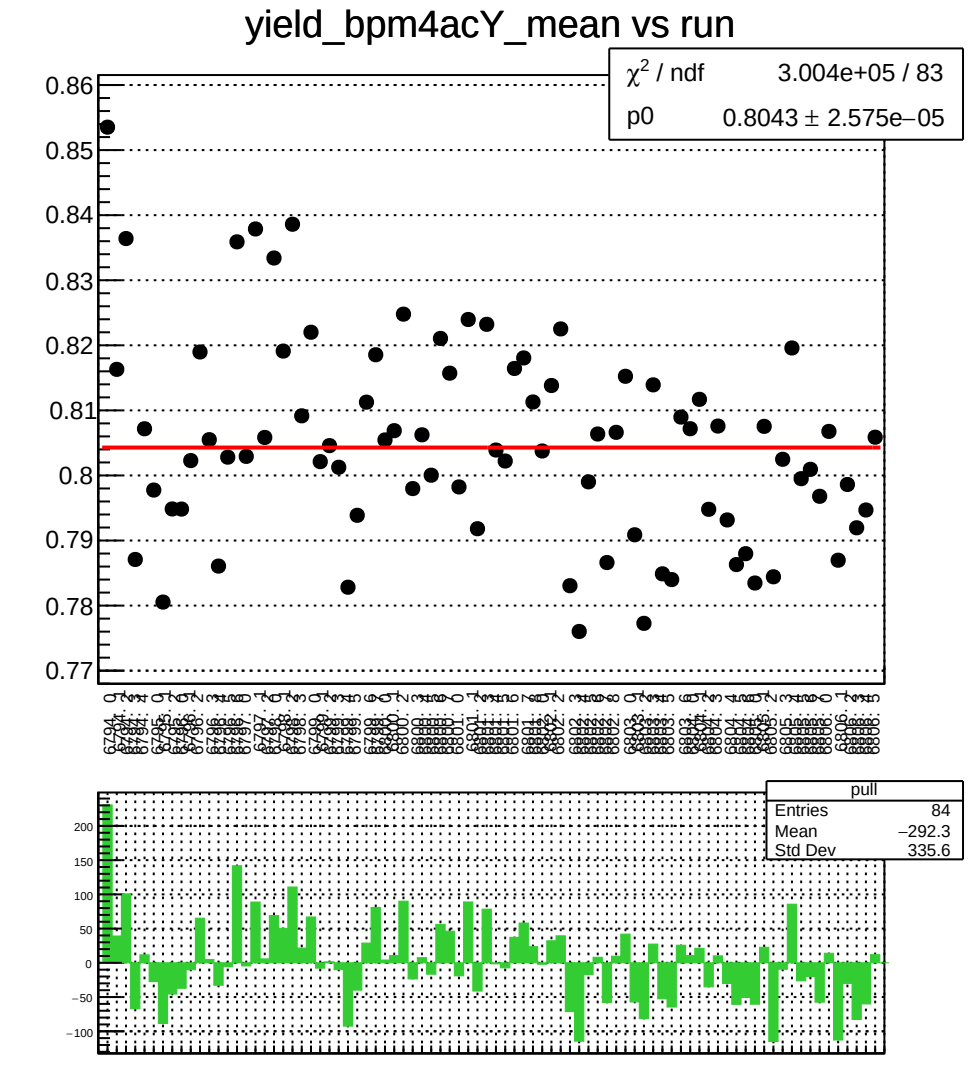

pull1D
Entries 84
Mean −1.462
Std Dev 3.553
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

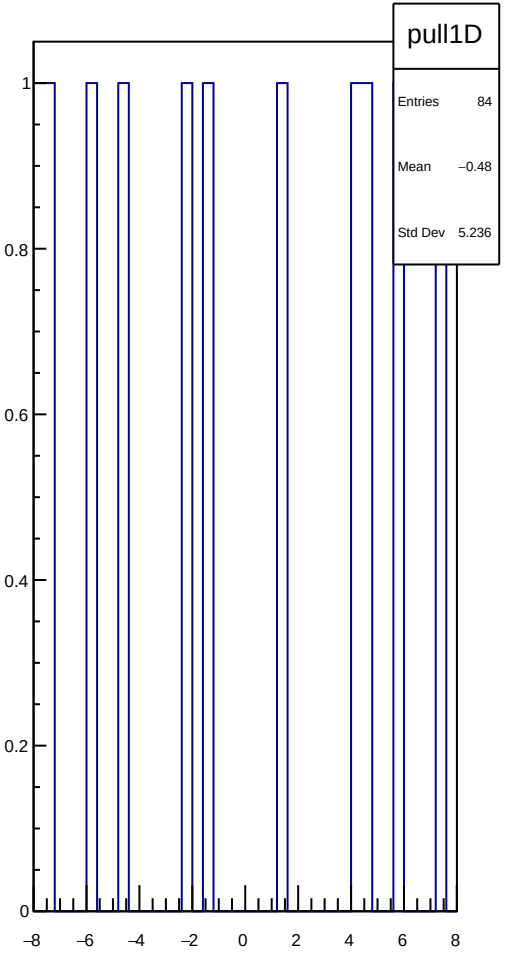

yield_bpm4eY_rms vs run
χ² / ndf 9.267e+04 / 83
p0 0.01603 ± 1.295e−05
0.05
0.04
0.03
0.02
0.01

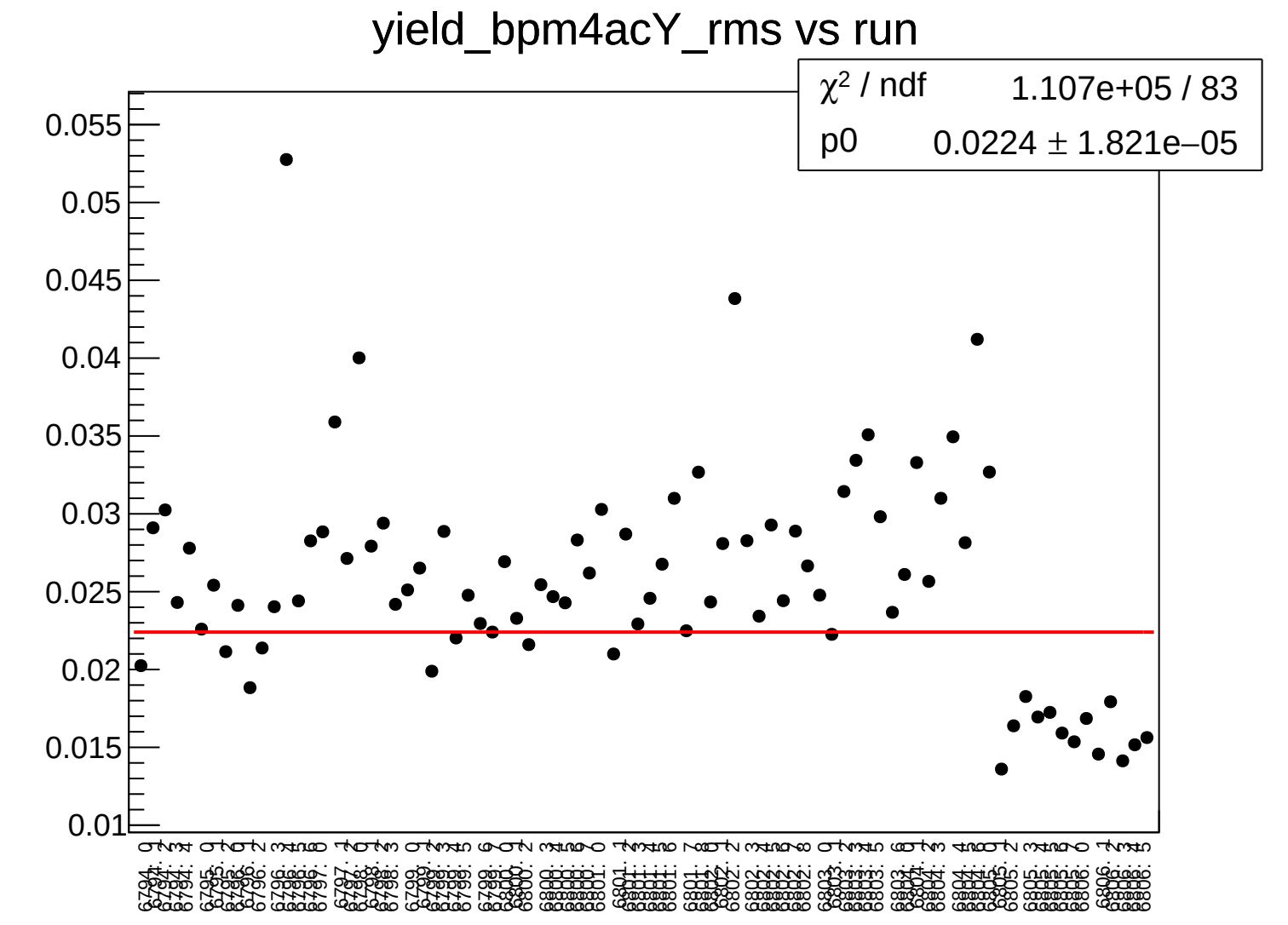

yield_bpm4acX_mean vs run
χ² / ndf 4.133e+05 / 83
p0 −0.7475 ± 2.564e−05
−0.55
−0.6
−0.65
−0.7
−0.75
−0.8
pull
Entries 84
Mean 40.49
Std Dev 14.12
150
100
50
0
−50
−100

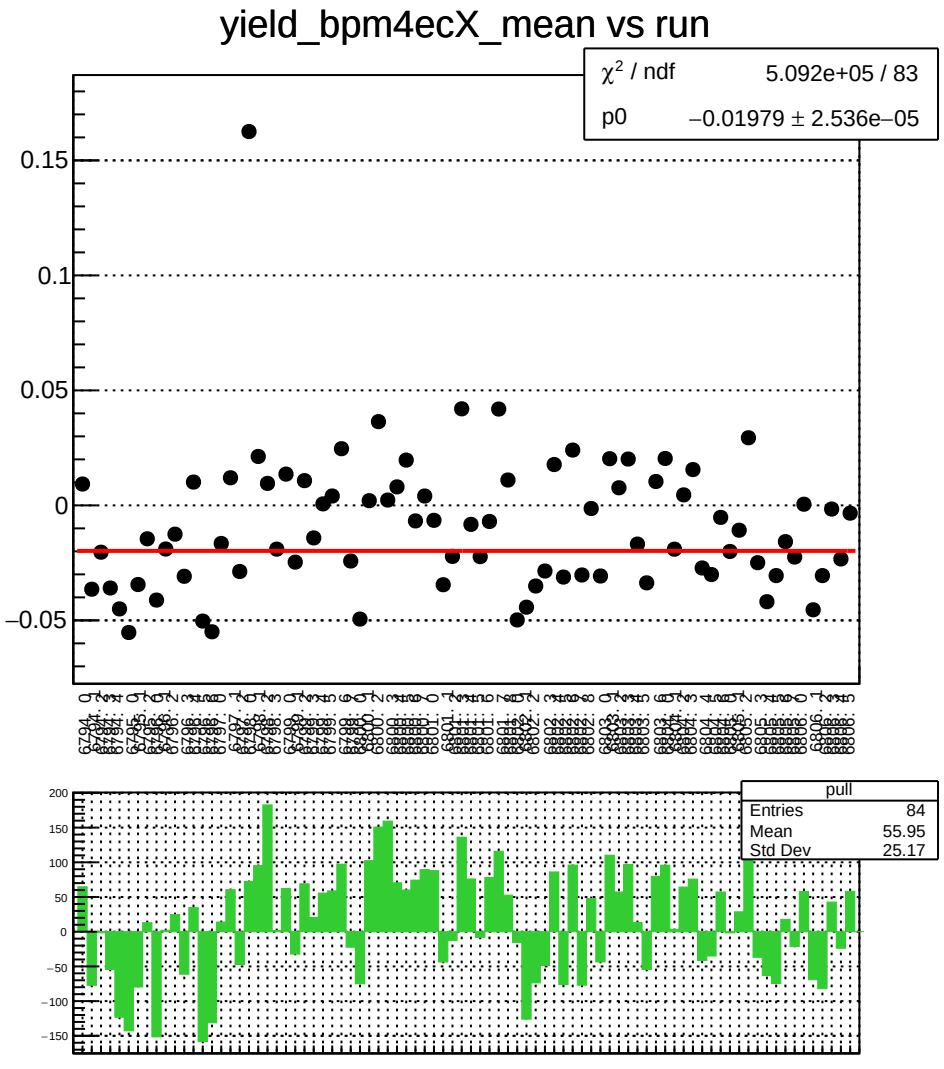

pull1D
Entries 84
Mean 0.1673
Std Dev 4.79
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

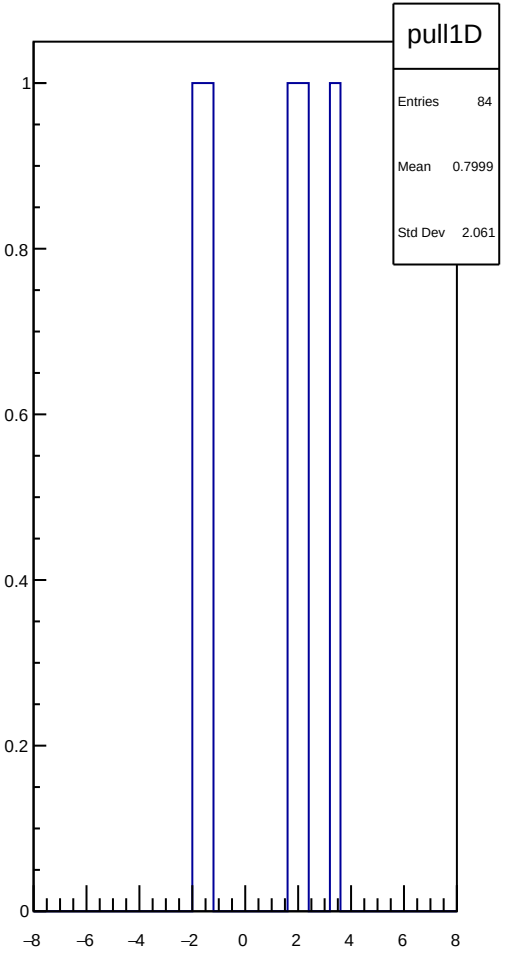

yield_bpm4acX_rms vs run
χ² / ndf 3.082e+05 / 83
p0 0.0208 ± 1.813e−05
0.25
0.2
0.15
0.1
0.05

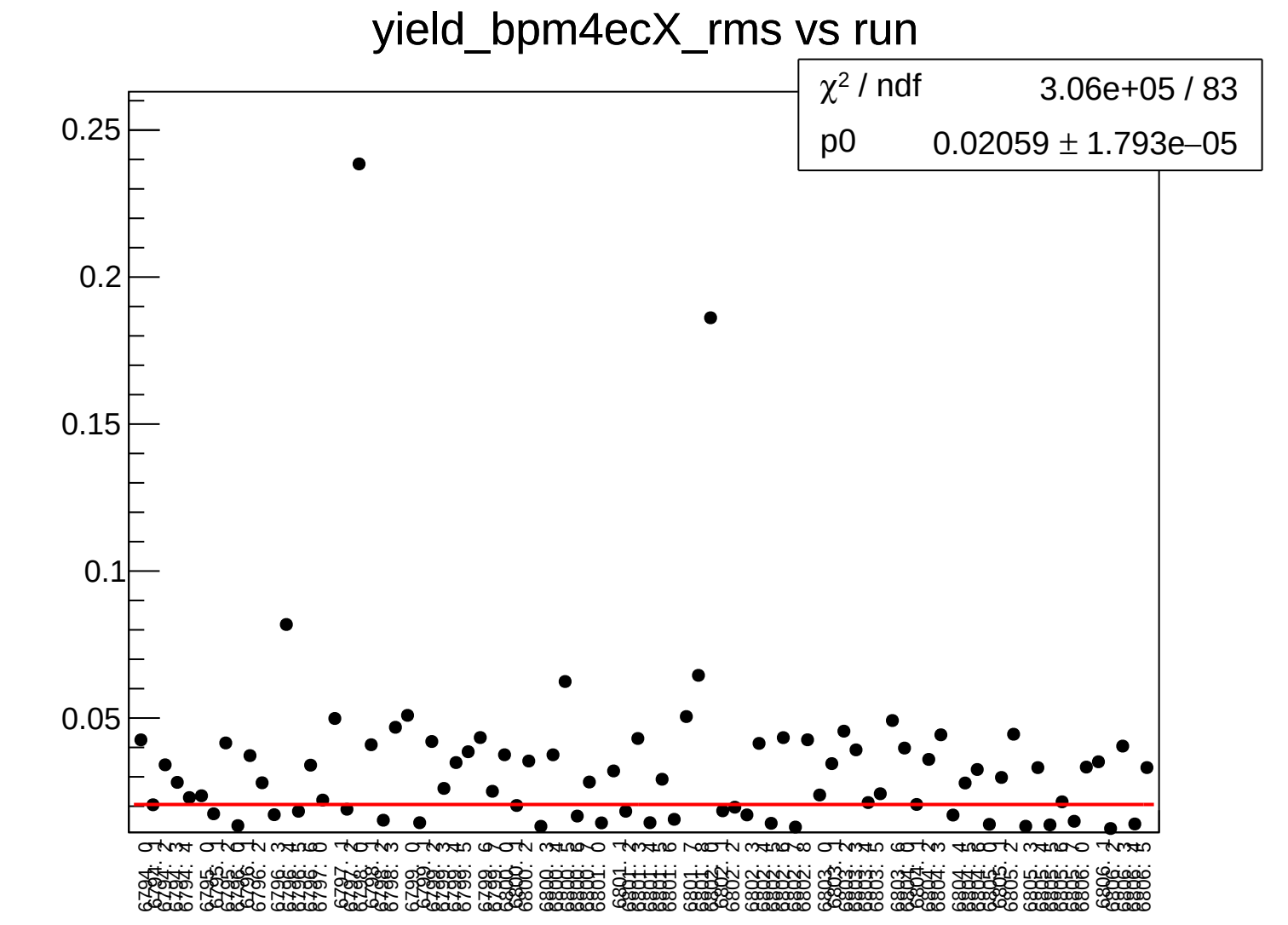

yield_bpm4acY_mean vs run
χ² / ndf 3.004e+05 / 83
p0 0.8043 ± 2.575e−05
pull
Entries 84
Mean −292.3
Std Dev 335.6

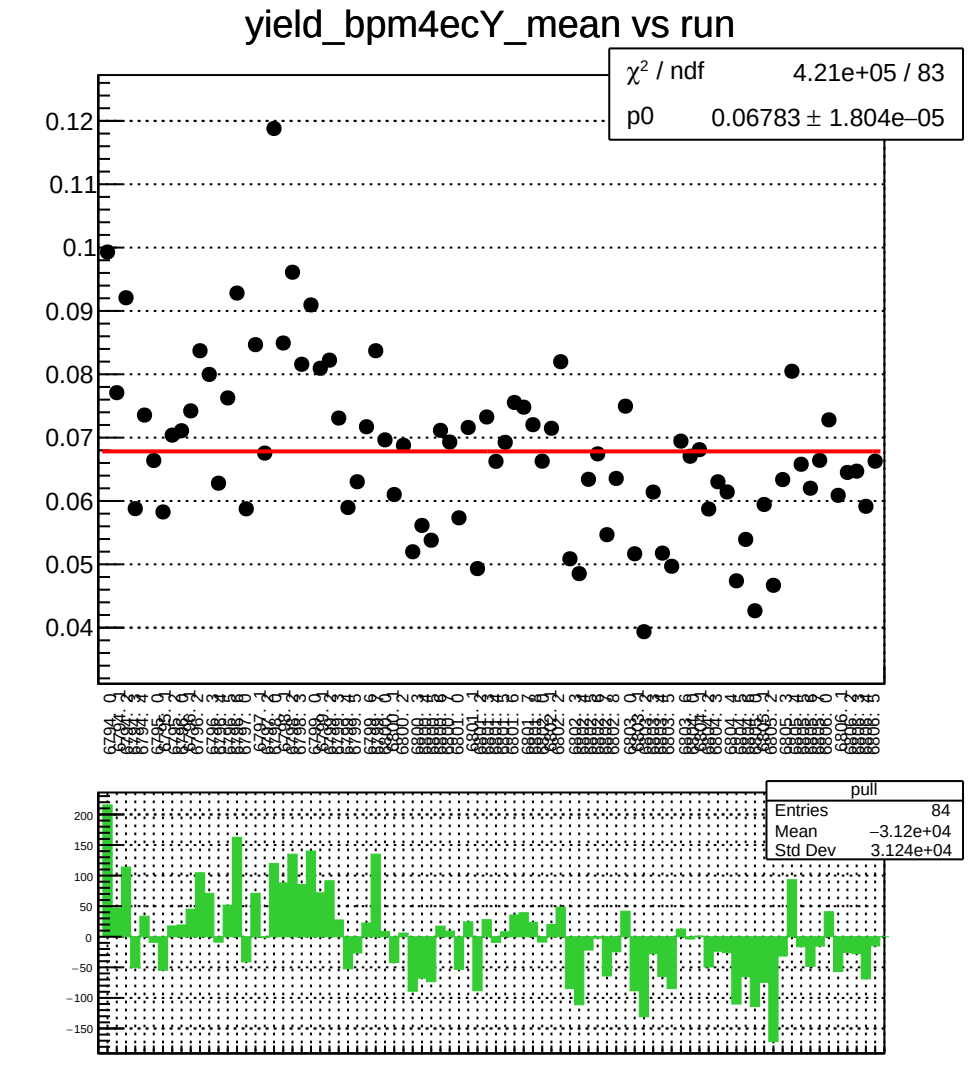

pull1D
Entries 84
Mean −0.48
Std Dev 5.236

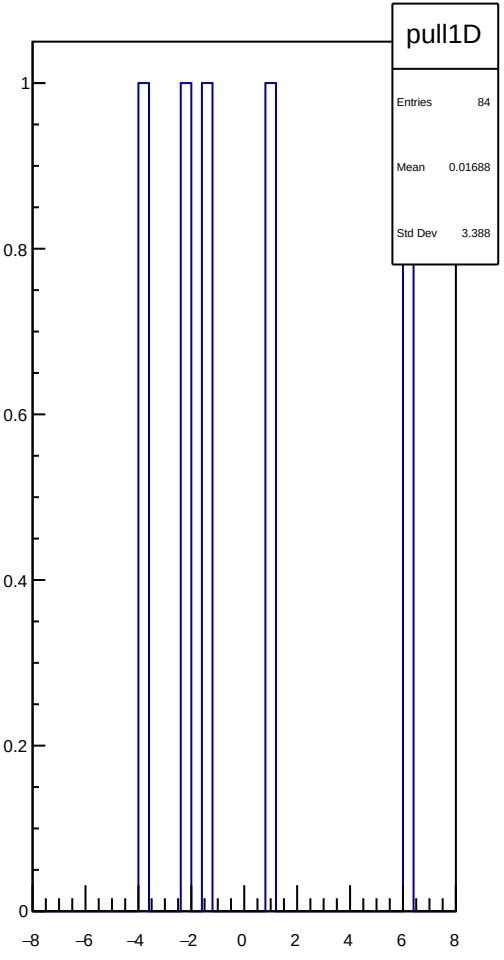

yield_bpm4acY_rms vs run
χ² / ndf 1.107e+05 / 83
p0 0.0224 ± 1.821e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

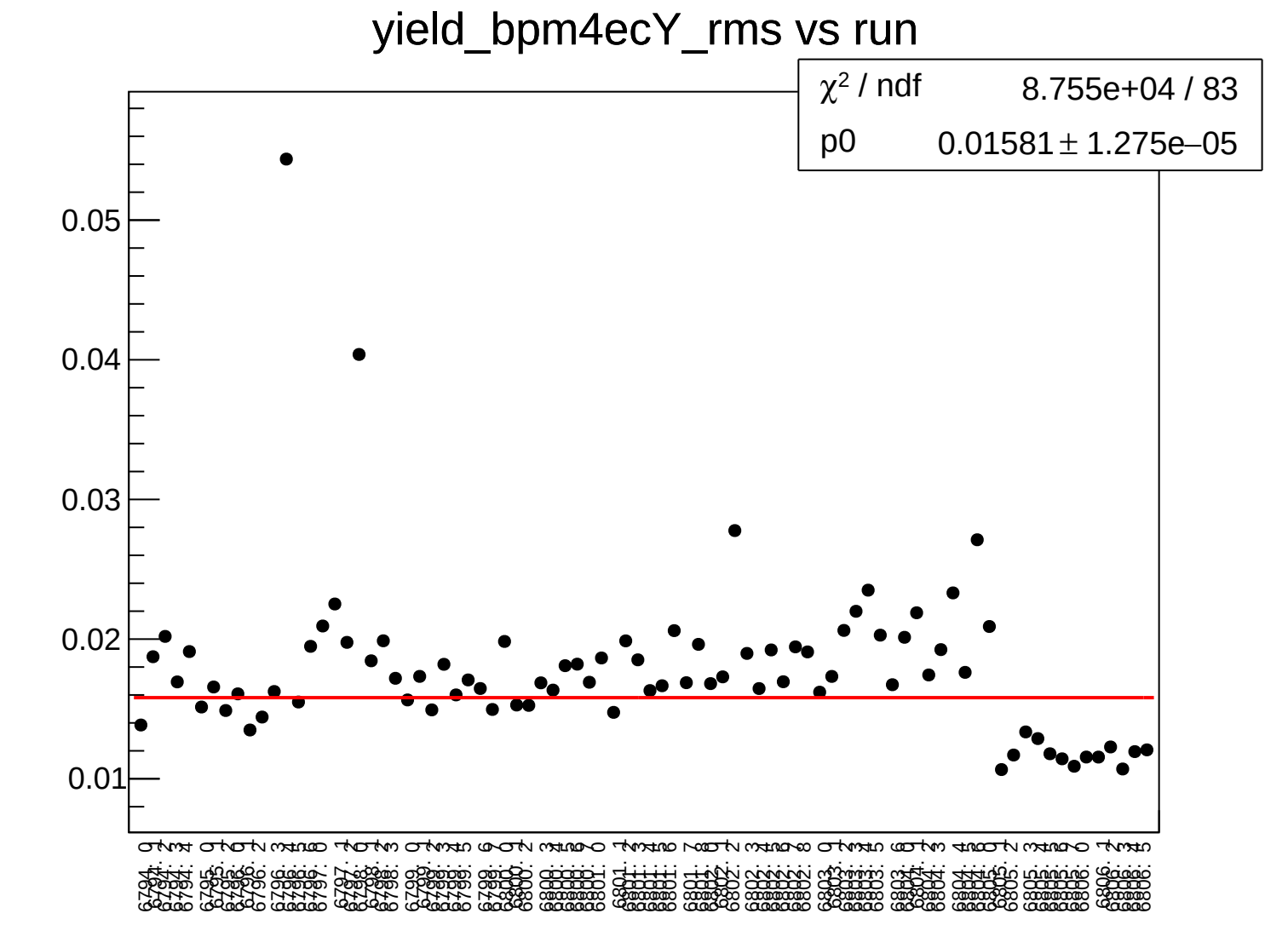

yield_bpm4ecX_mean vs run
χ² / ndf 5.092e+05 / 83
p0 −0.01979 ± 2.536e−05
0.15
0.1
0.05
0
−0.05
pull
Entries 84
Mean 55.95
Std Dev 25.17
200
150
100
50
0
−50
−100
−150

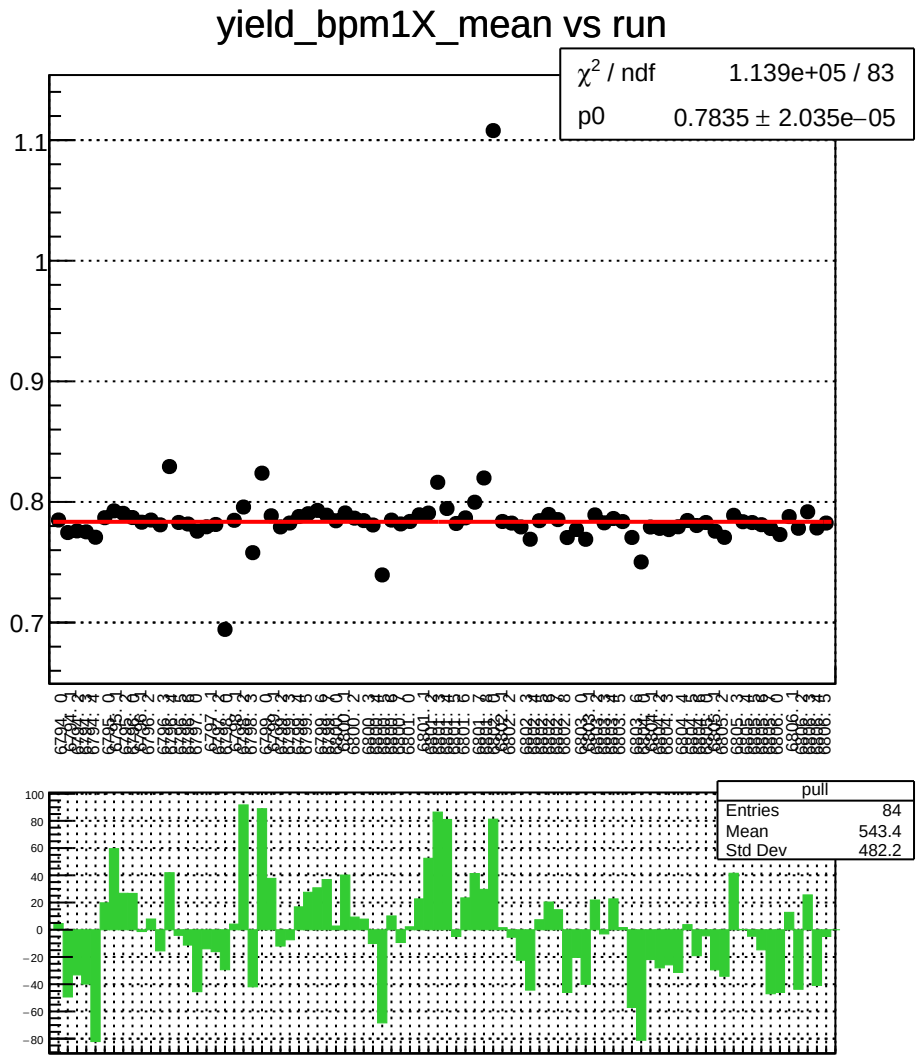

pull1D
Entries 84
Mean 0.7999
Std Dev 2.061
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

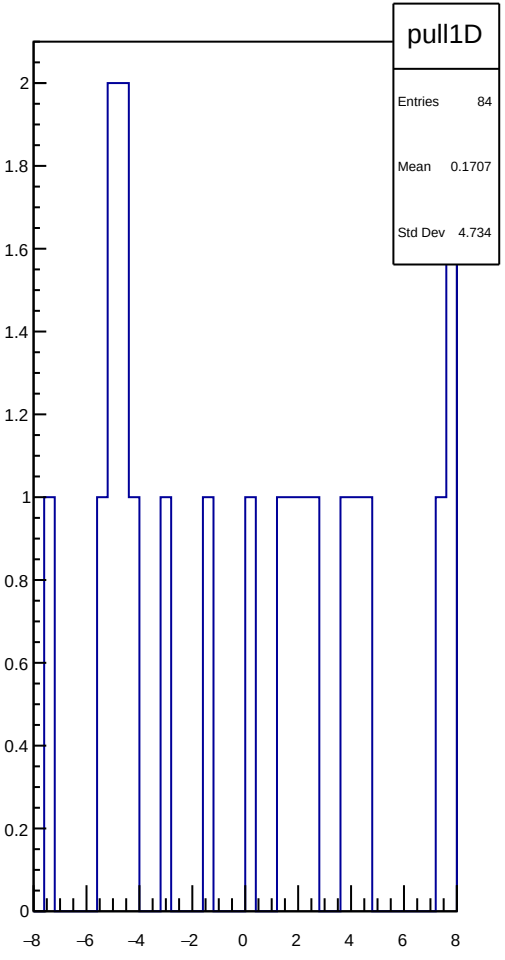

yield_bpm4ecX_rms vs run
χ² / ndf 3.06e+05 / 83
p0 0.02059 ± 1.793e–05
0.25
0.2
0.15
0.1
0.05

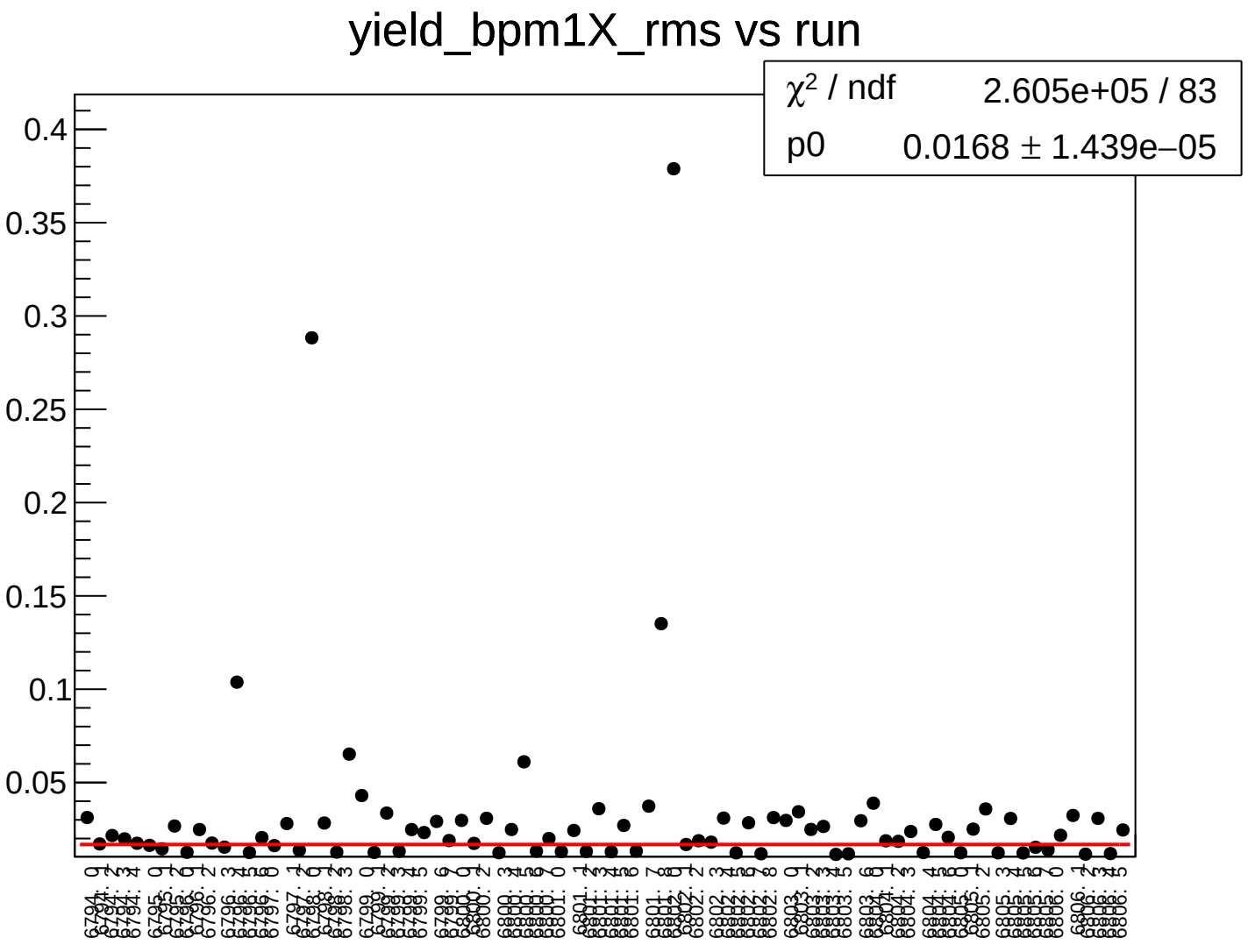

yield_bpm4ecY_mean vs run
χ² / ndf 4.21e+05 / 83
p0 0.06783 ± 1.804e−05
pull
Entries 84
Mean −3.12e+04
Std Dev 3.124e+04

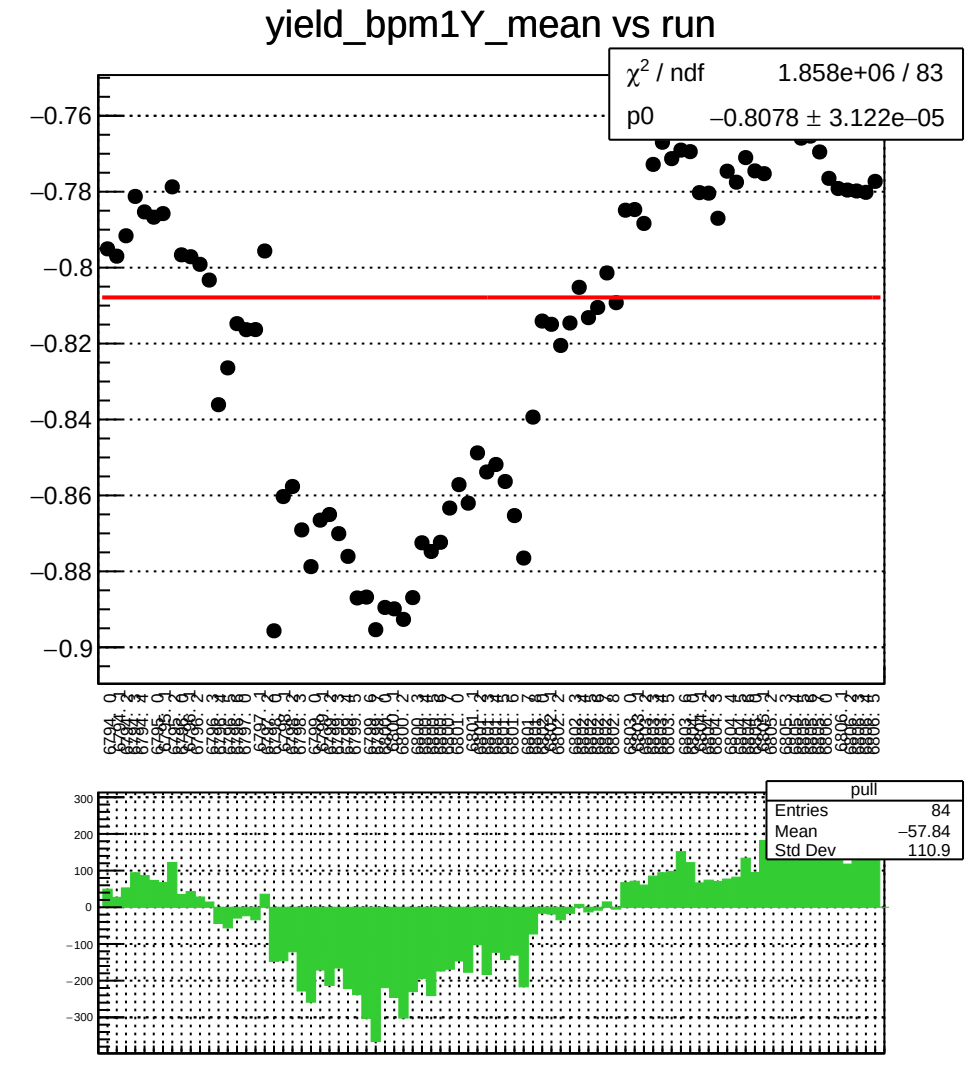

pull1D
Entries 84
Mean 0.01688
Std Dev 3.388

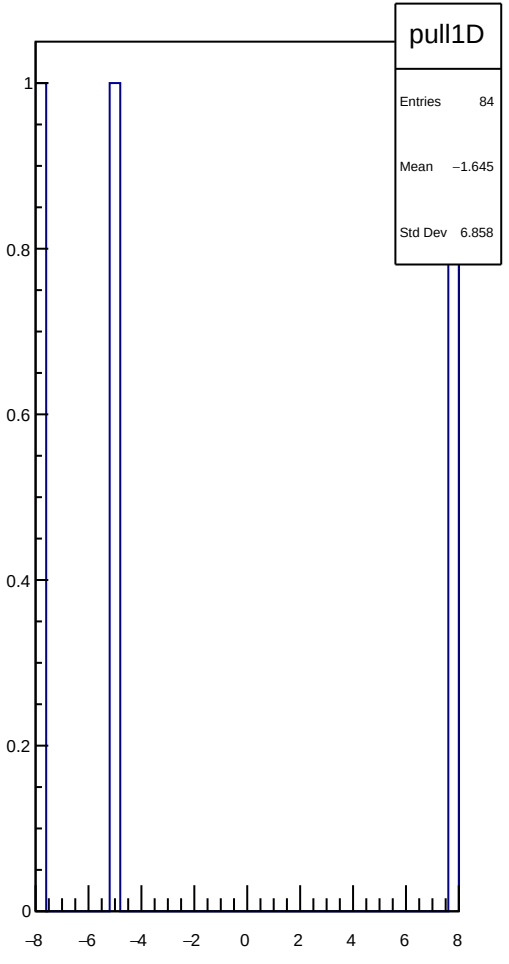

yield_bpm4ecY_rms vs run
χ² / ndf 8.755e+04 / 83
p0 0.01581 ± 1.275e–05
0.05
0.04
0.03
0.02
0.01

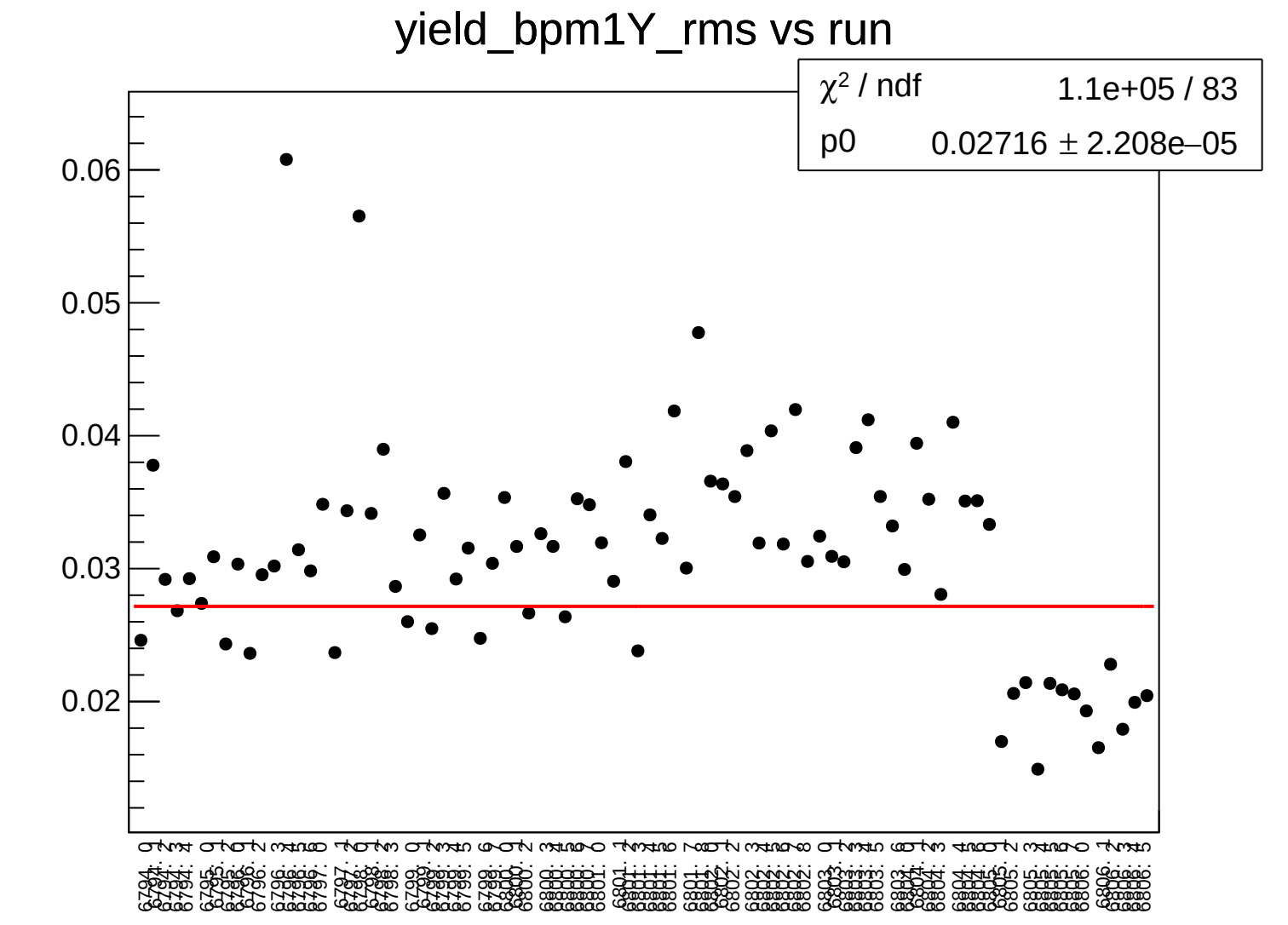

yield_bpm1X_mean vs run
χ² / ndf 1.139e+05 / 83
p0 0.7835 ± 2.035e−05
1.1
1
0.9
0.8
0.7
pull
Entries 84
Mean 543.4
Std Dev 482.2
100
80
60
40
20
0
−20
−40
−60
−80

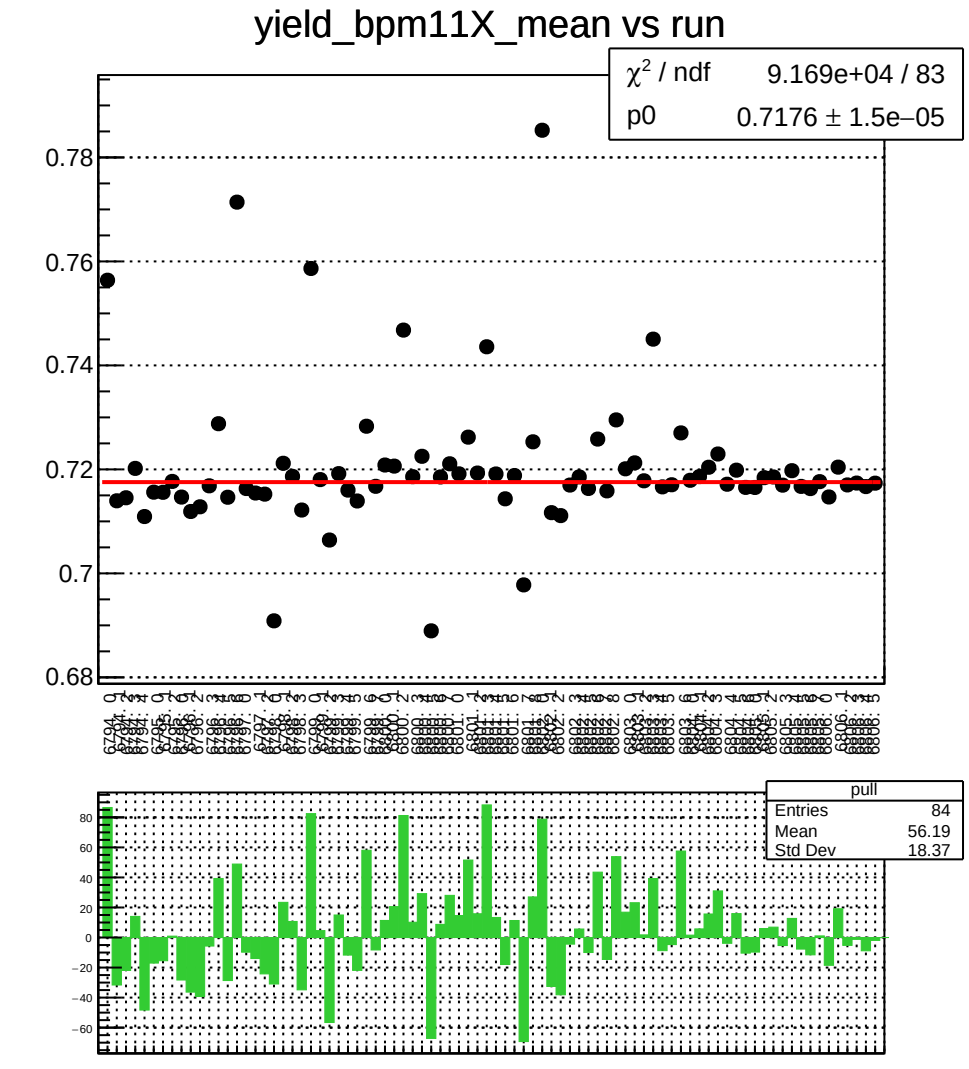

pull1D
Entries 84
Mean 0.1707
Std Dev 4.734
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

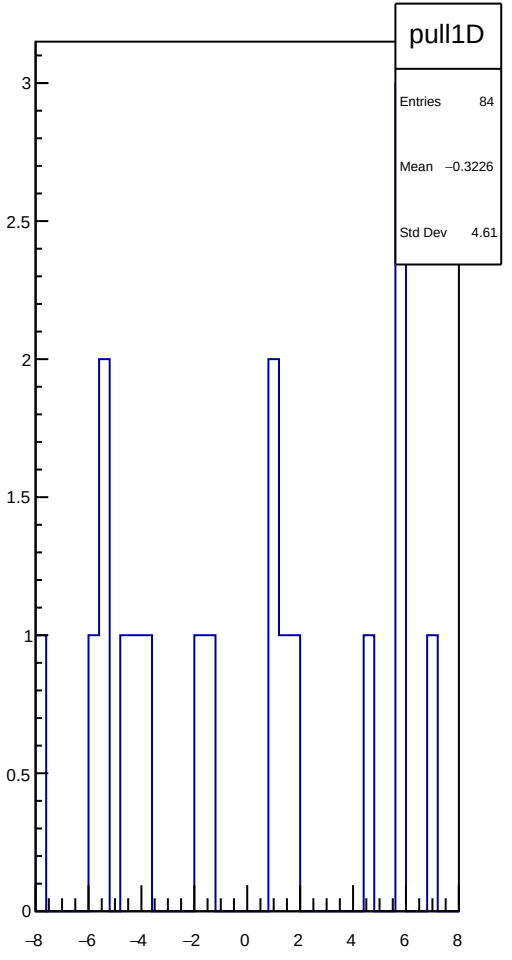

yield_bpm1X_rms vs run
χ² / ndf 2.605e+05 / 83
p0 0.0168 ± 1.439e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

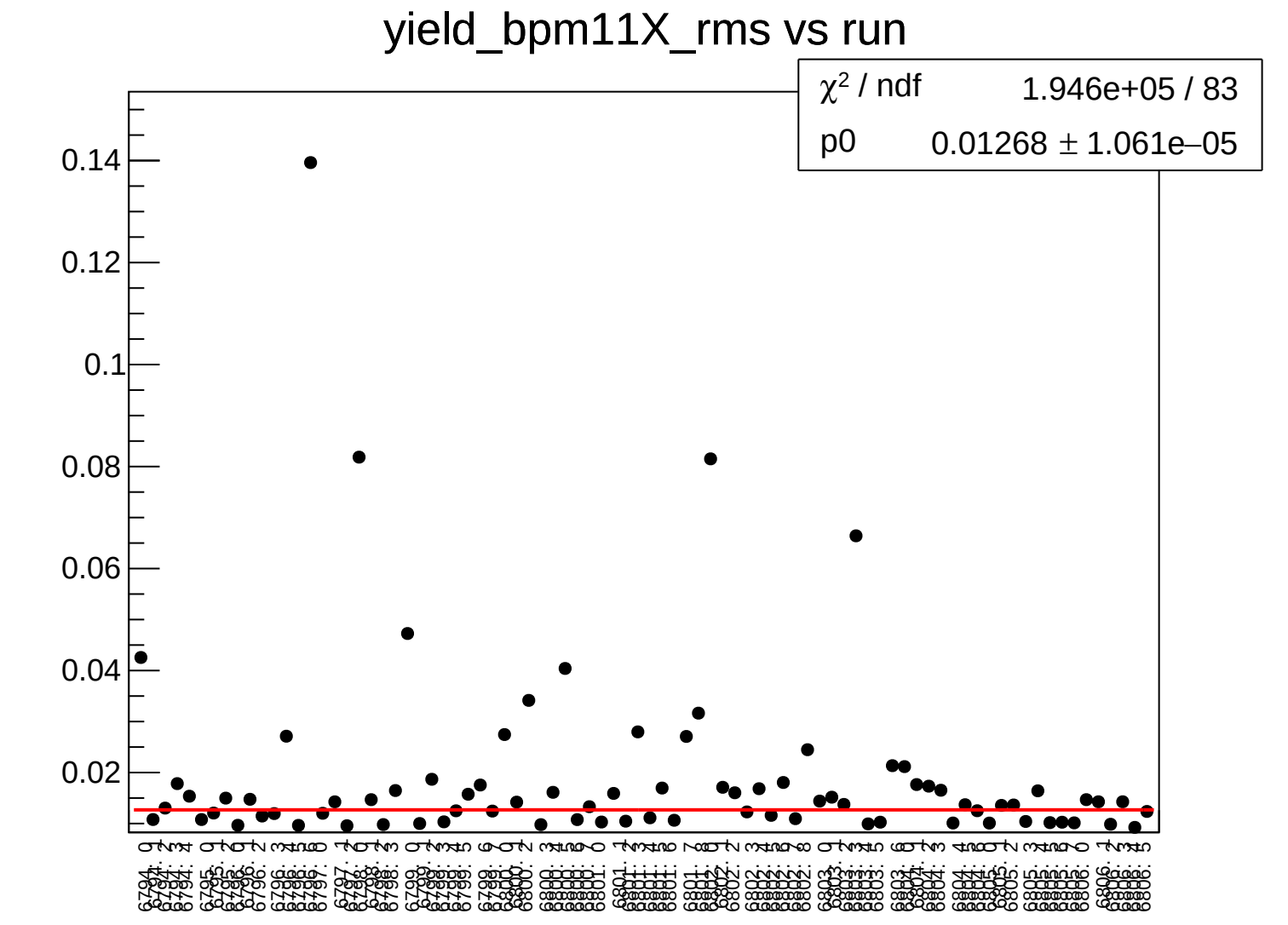

yield_bpm1Y_mean vs run
χ² / ndf 1.858e+06 / 83
p0 −0.8078 ± 3.122e−05
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
pull
Entries 84
Mean −57.84
Std Dev 110.9
300
200
100
0
−100
−200
−300

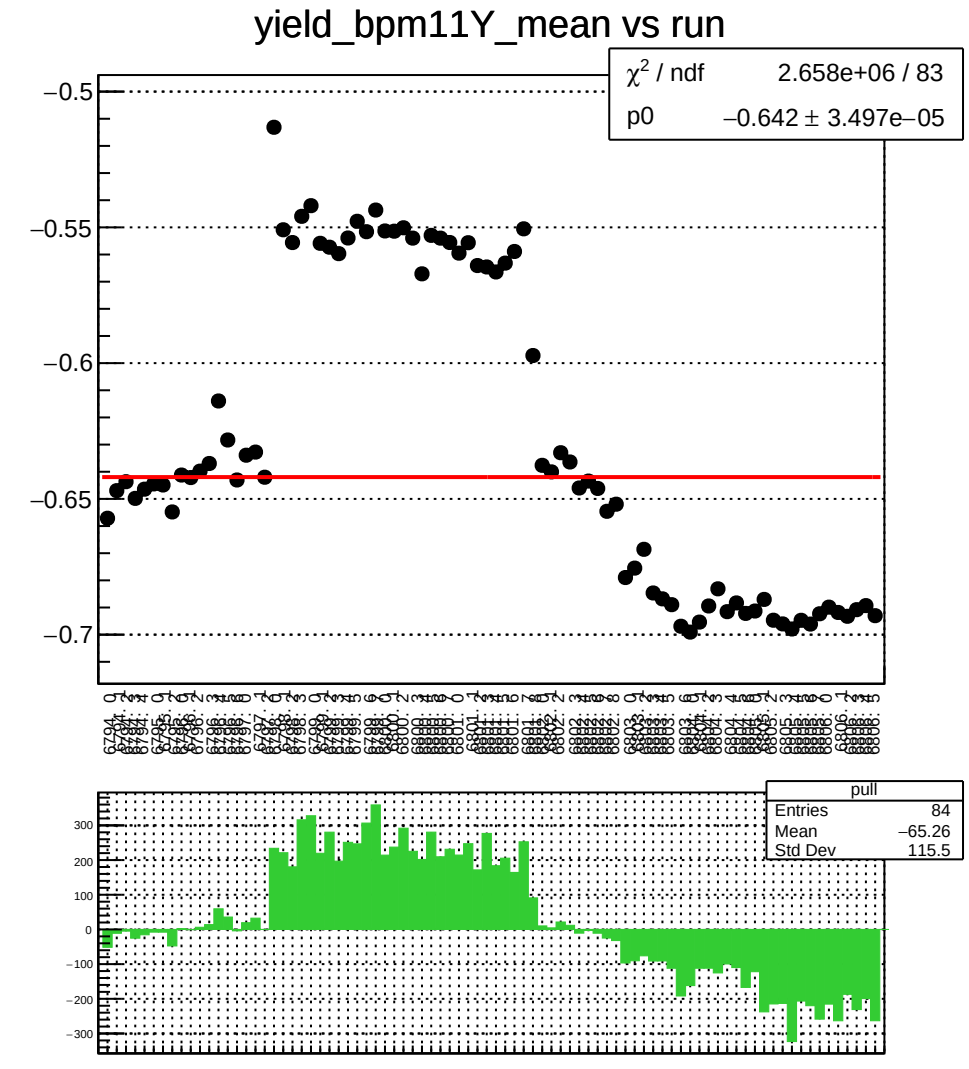

pull1D
Entries 84
Mean −1.645
Std Dev 6.858
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

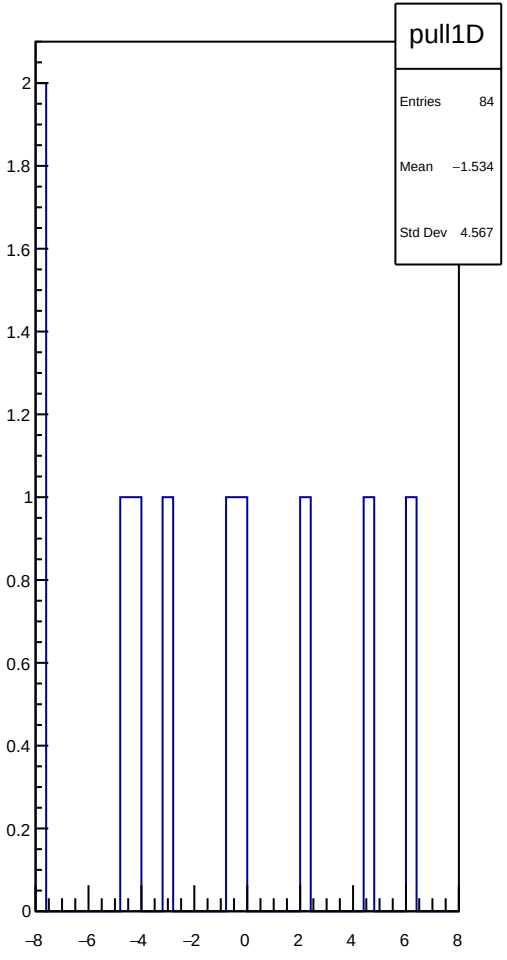

yield_bpm1Y_rms vs run
χ² / ndf 1.1e+05 / 83
p0 0.02716 ± 2.208e–05
0.06
0.05
0.04
0.03
0.02

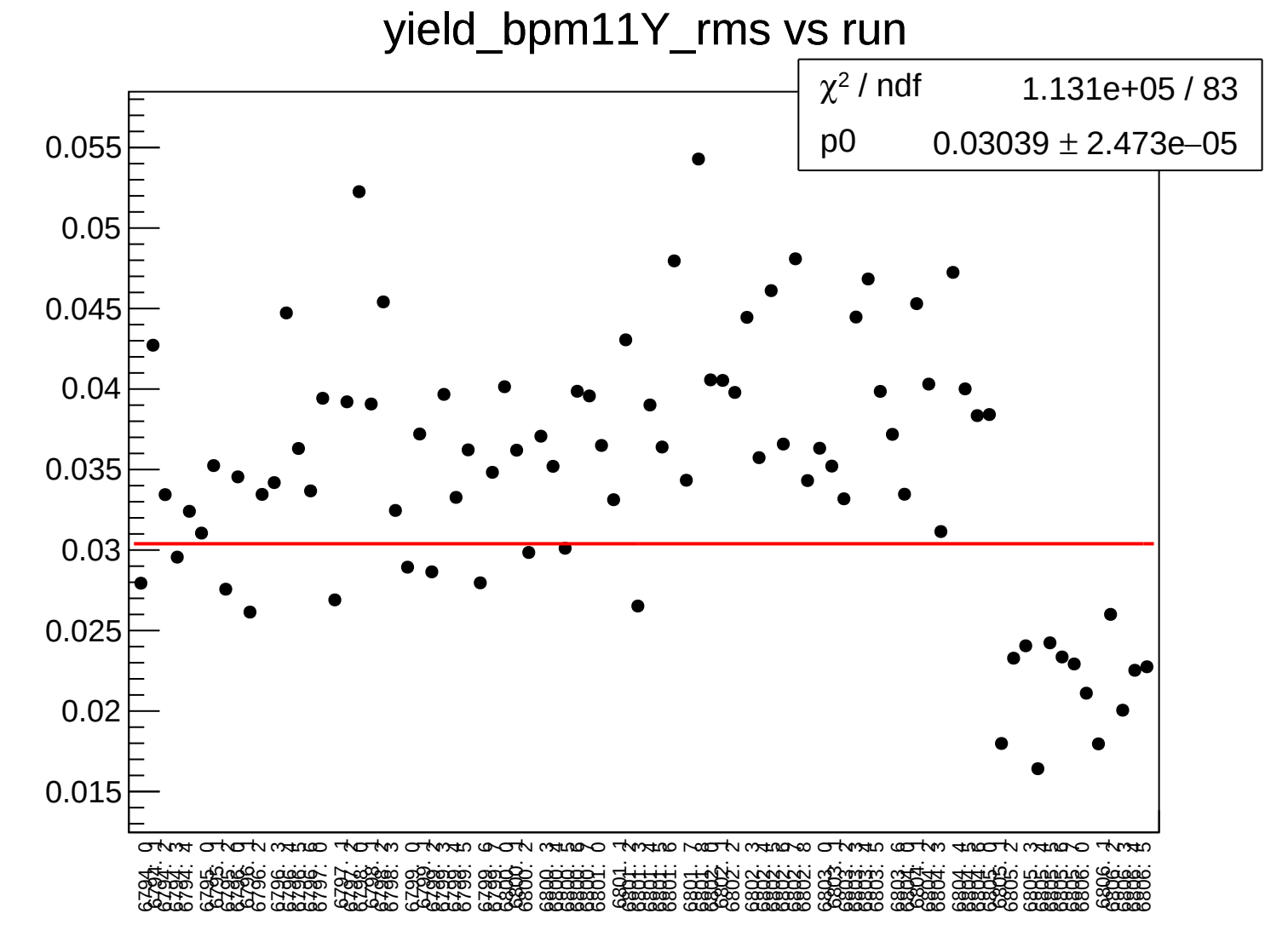

yield_bpm11X_mean vs run
χ² / ndf 9.169e+04 / 83
p0 0.7176 ± 1.5e−05
0.78
0.76
0.74
0.72
0.7
0.68
pull
Entries 84
Mean 56.19
Std Dev 18.37
80
60
40
20
0
−20
−40
−60

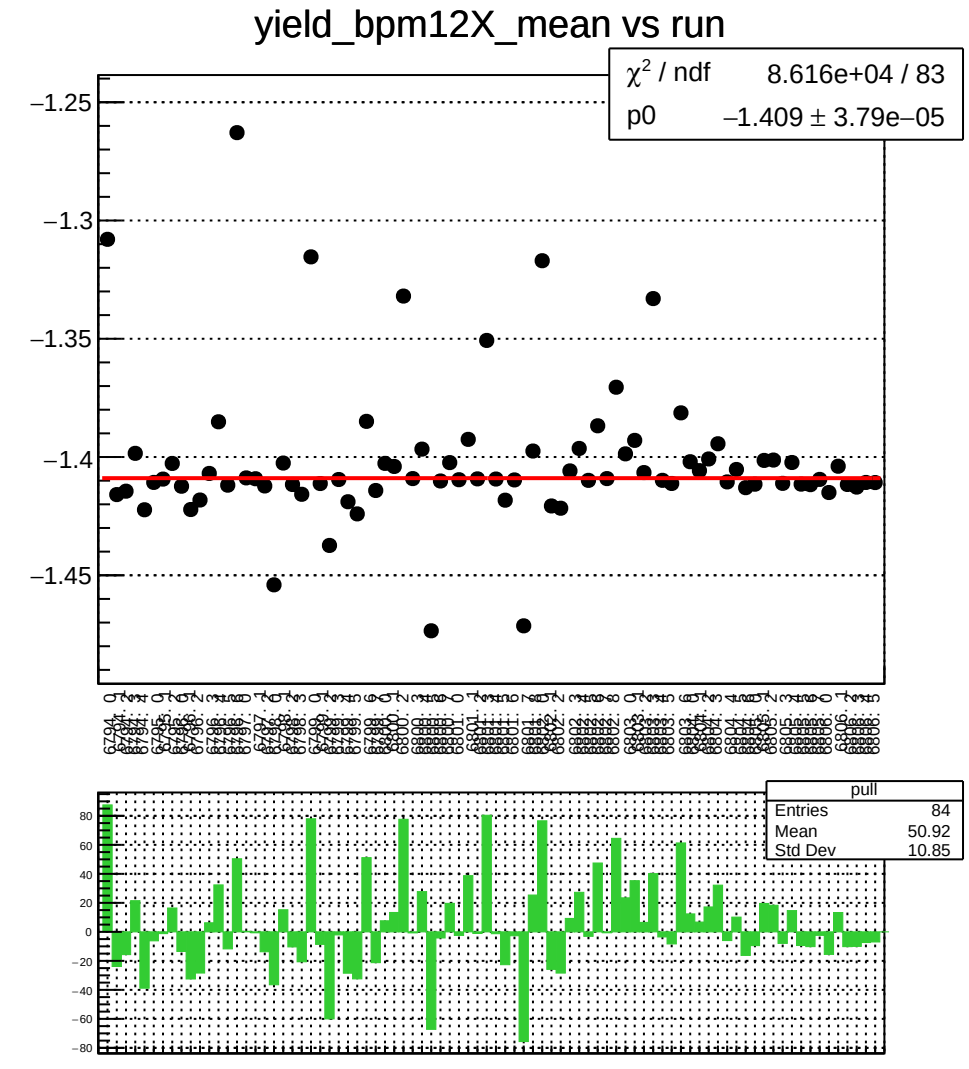

pull1D
Entries 84
Mean −0.3226
Std Dev 4.61
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

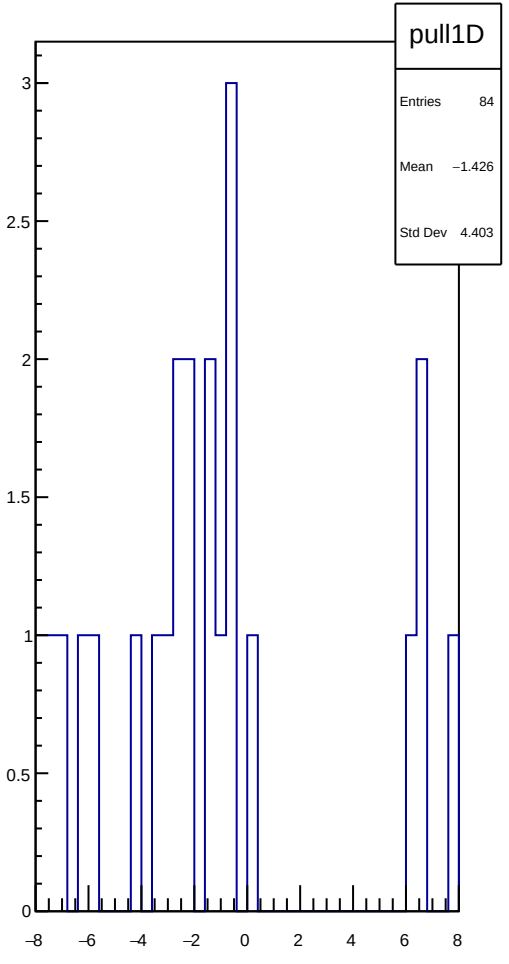

yield_bpm11X_rms vs run
χ² / ndf 1.946e+05 / 83
p0 0.01268 ± 1.061e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

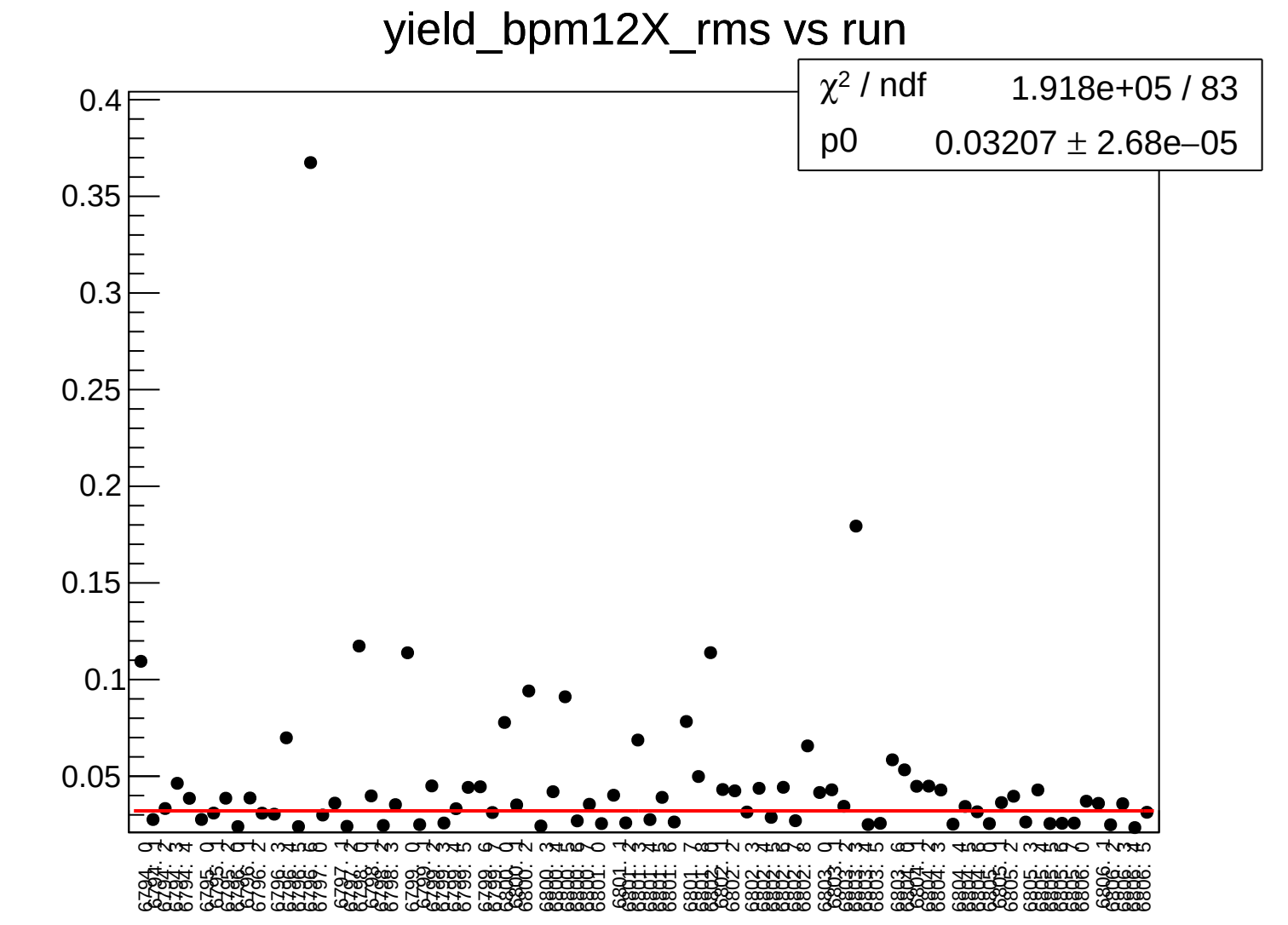

yield_bpm11Y_mean vs run
χ² / ndf 2.658e+06 / 83
p0 −0.642 ± 3.497e−05
−0.5
−0.55
−0.6
−0.65
−0.7
pull
Entries 84
Mean −65.26
Std Dev 115.5
300
200
100
0
−100
−200
−300

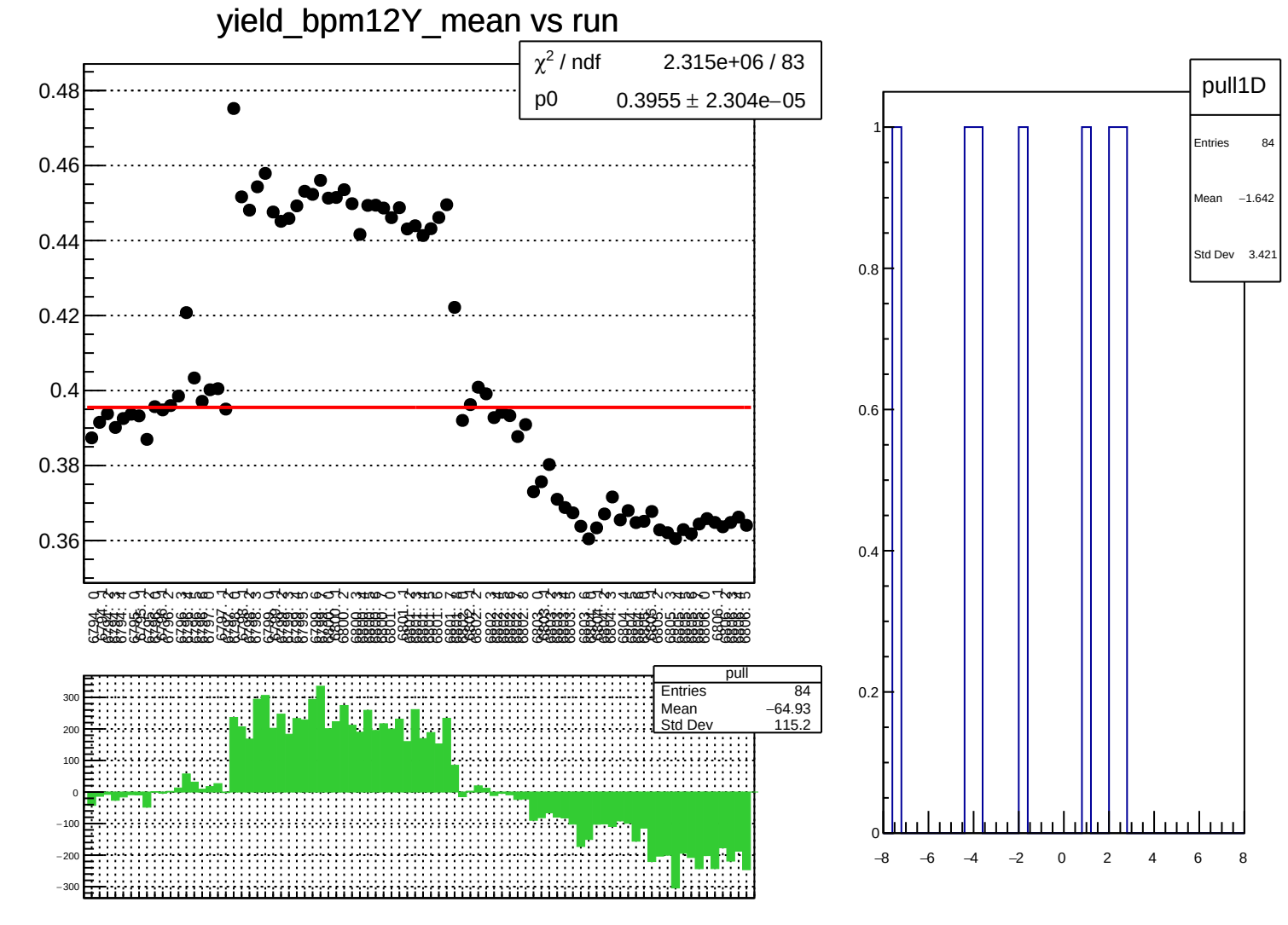

pull1D
Entries 84
Mean −1.534
Std Dev 4.567
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

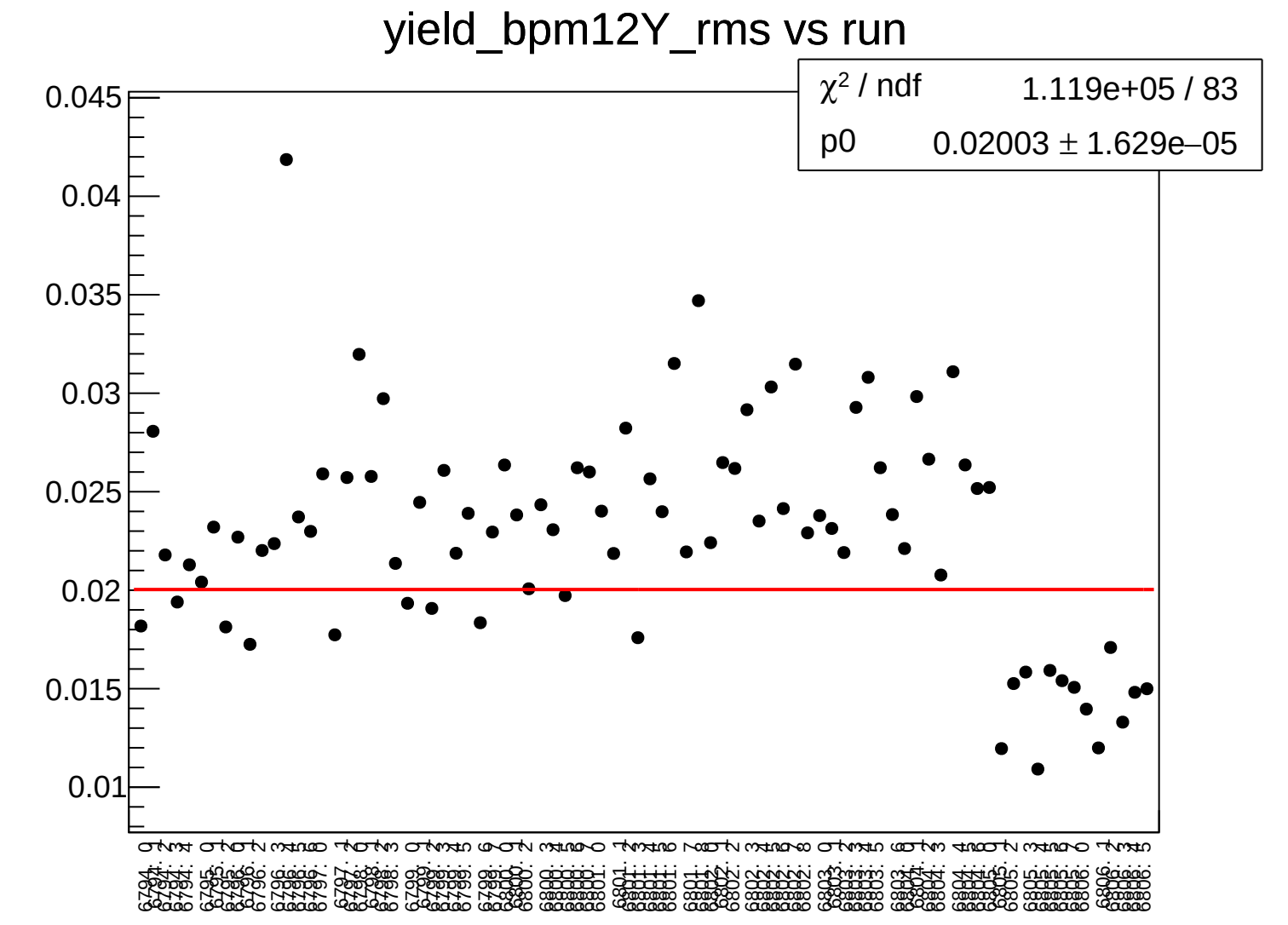

yield_bpm11Y_rms vs run
χ² / ndf 1.131e+05 / 83
p0 0.03039 ± 2.473e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

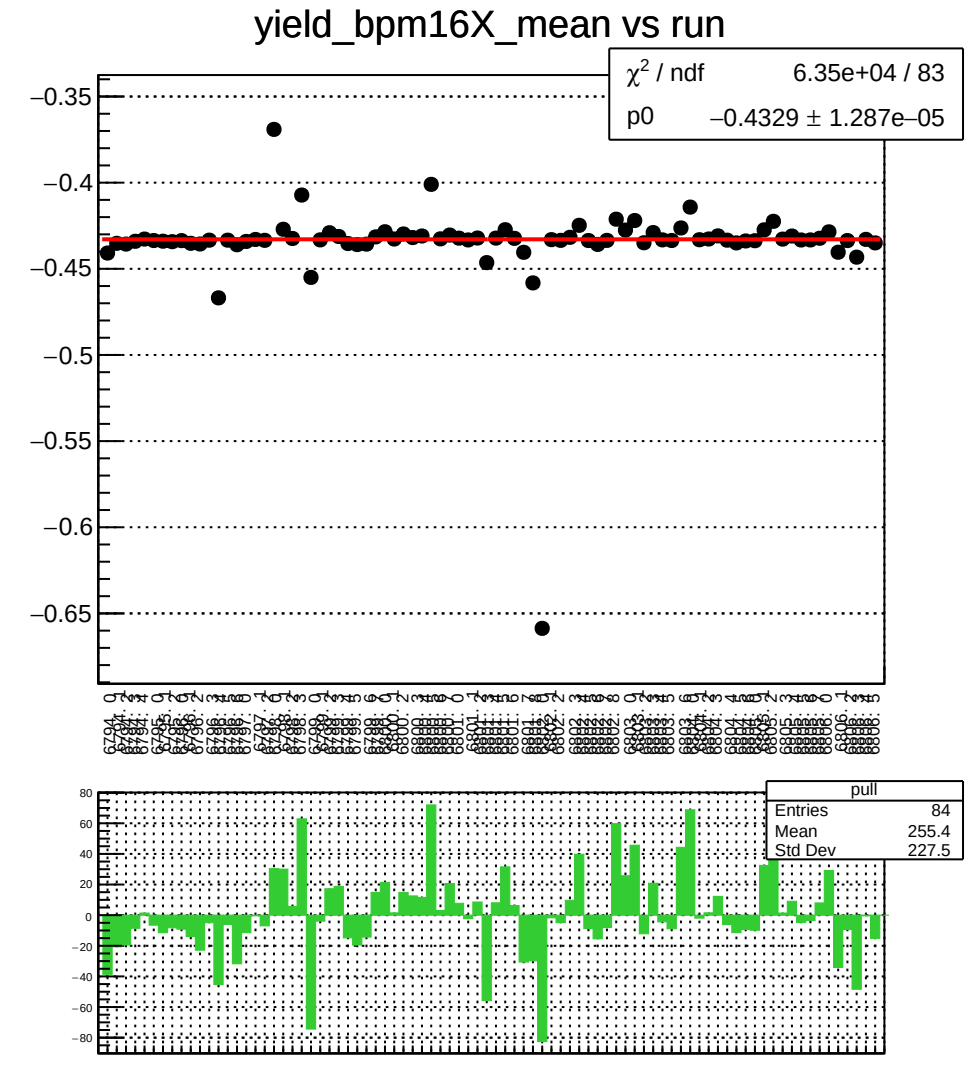

yield_bpm12X_mean vs run
χ² / ndf 8.616e+04 / 83
p0 −1.409 ± 3.79e−05
−1.25
−1.3
−1.35
−1.4
−1.45
pull
Entries 84
Mean 50.92
Std Dev 10.85
80
60
40
20
0
−20
−40
−60
−80

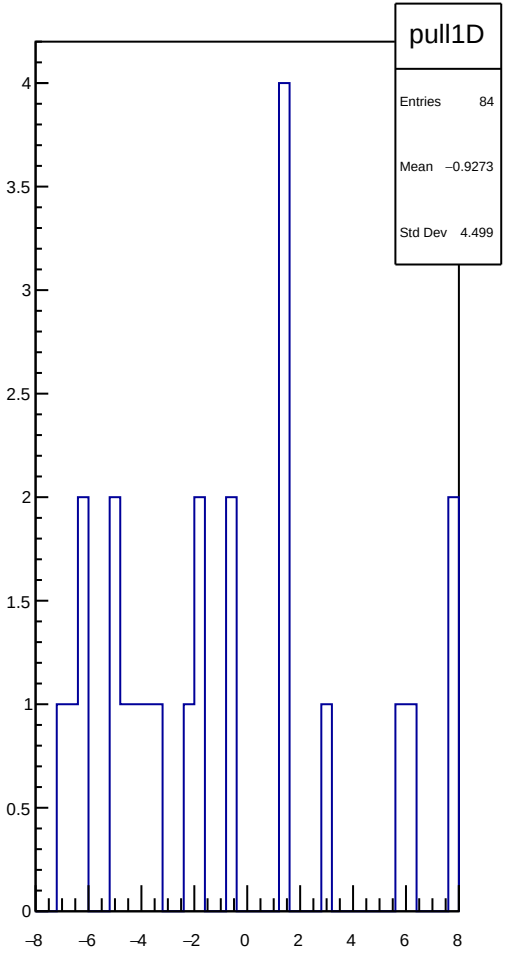

pull1D
Entries 84
Mean −1.426
Std Dev 4.403
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

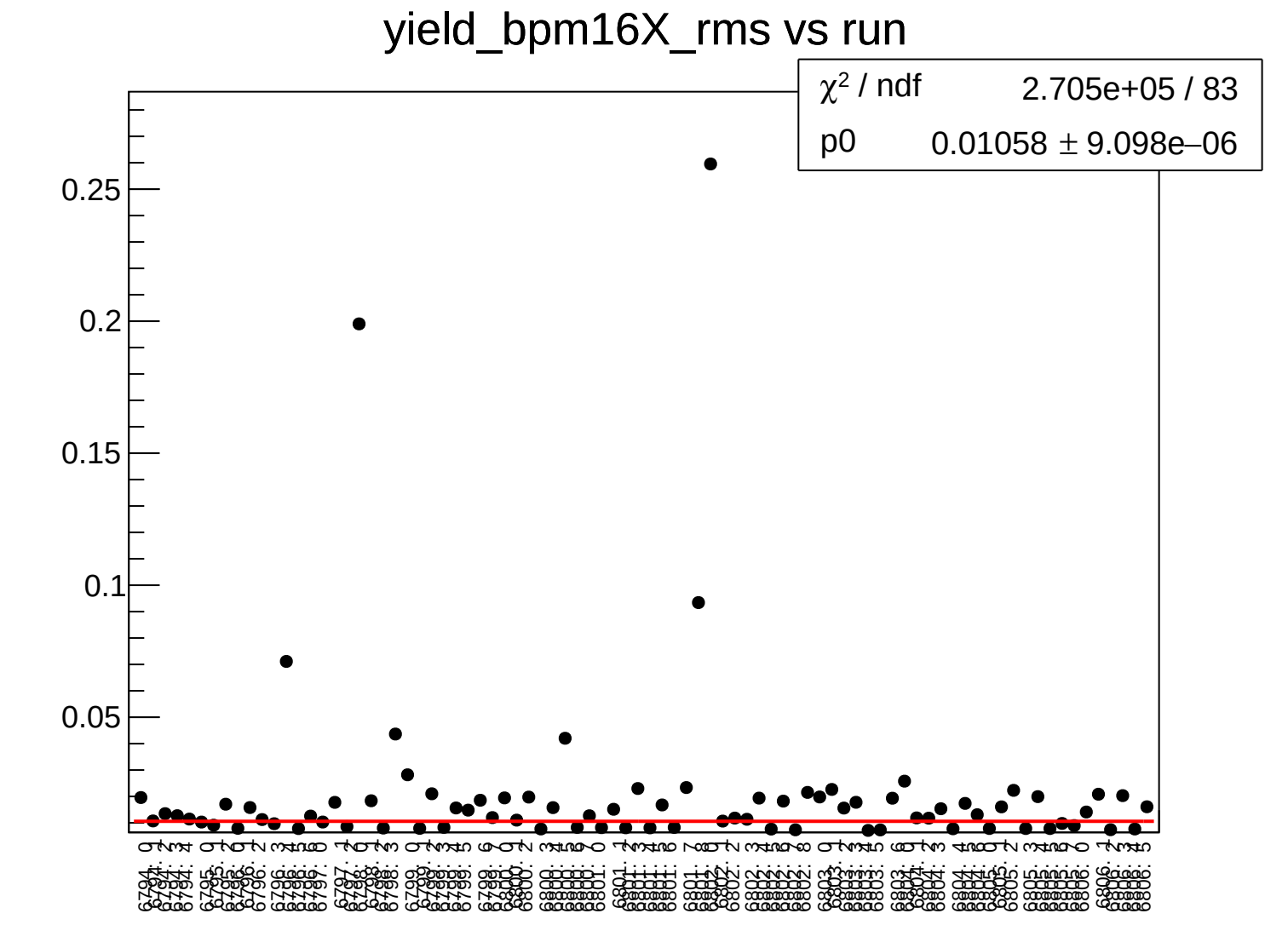

yield_bpm12X_rms vs run
χ² / ndf 1.918e+05 / 83
p0 0.03207 ± 2.68e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

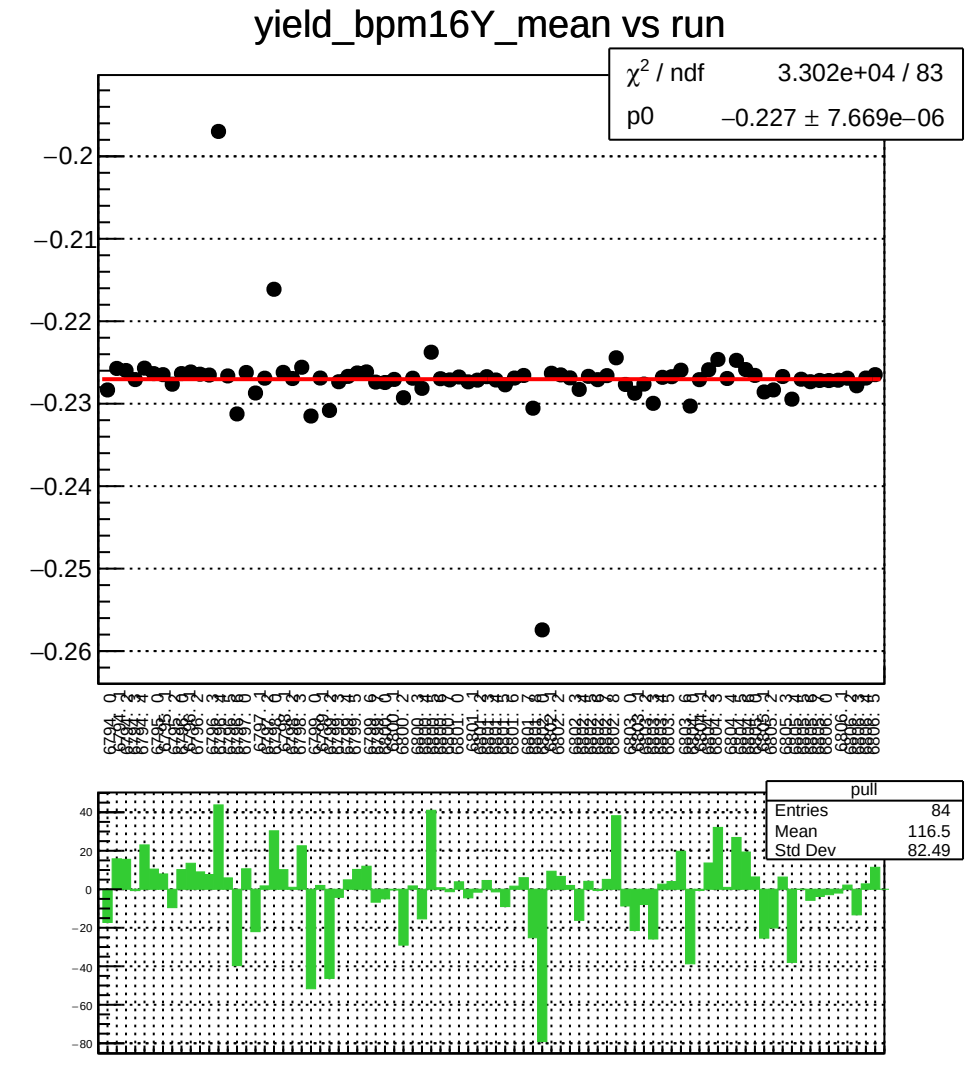

yield_bpm12Y_mean vs run
χ² / ndf 2.315e+06 / 83
p0 0.3955 ± 2.304e−05
0.48
0.46
0.44
0.42
0.4
0.38
0.36
pull
Entries 84
Mean −64.93
Std Dev 115.2
300
200
100
0
−100
−200
−300
pull1D
Entries 84
Mean −1.642
Std Dev 3.421
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

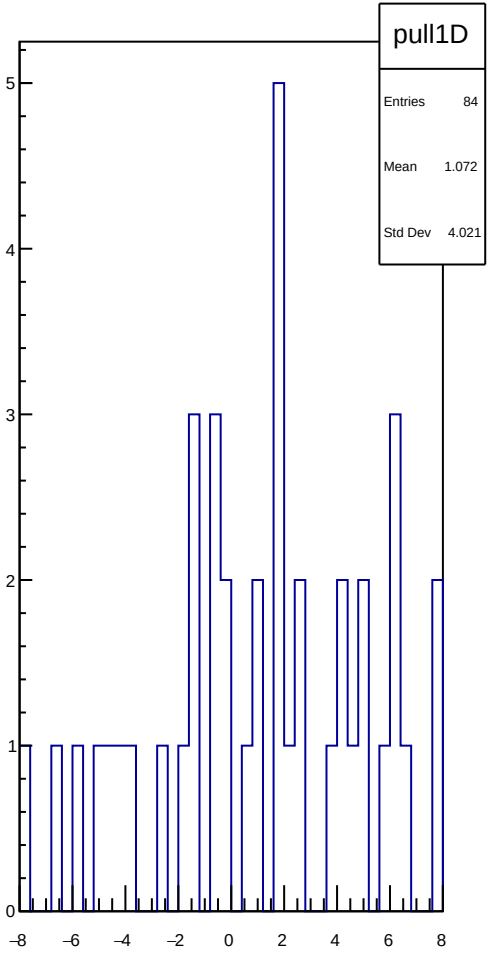

yield_bpm12Y_rms vs run
χ² / ndf 1.119e+05 / 83
p0 0.02003 ± 1.629e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

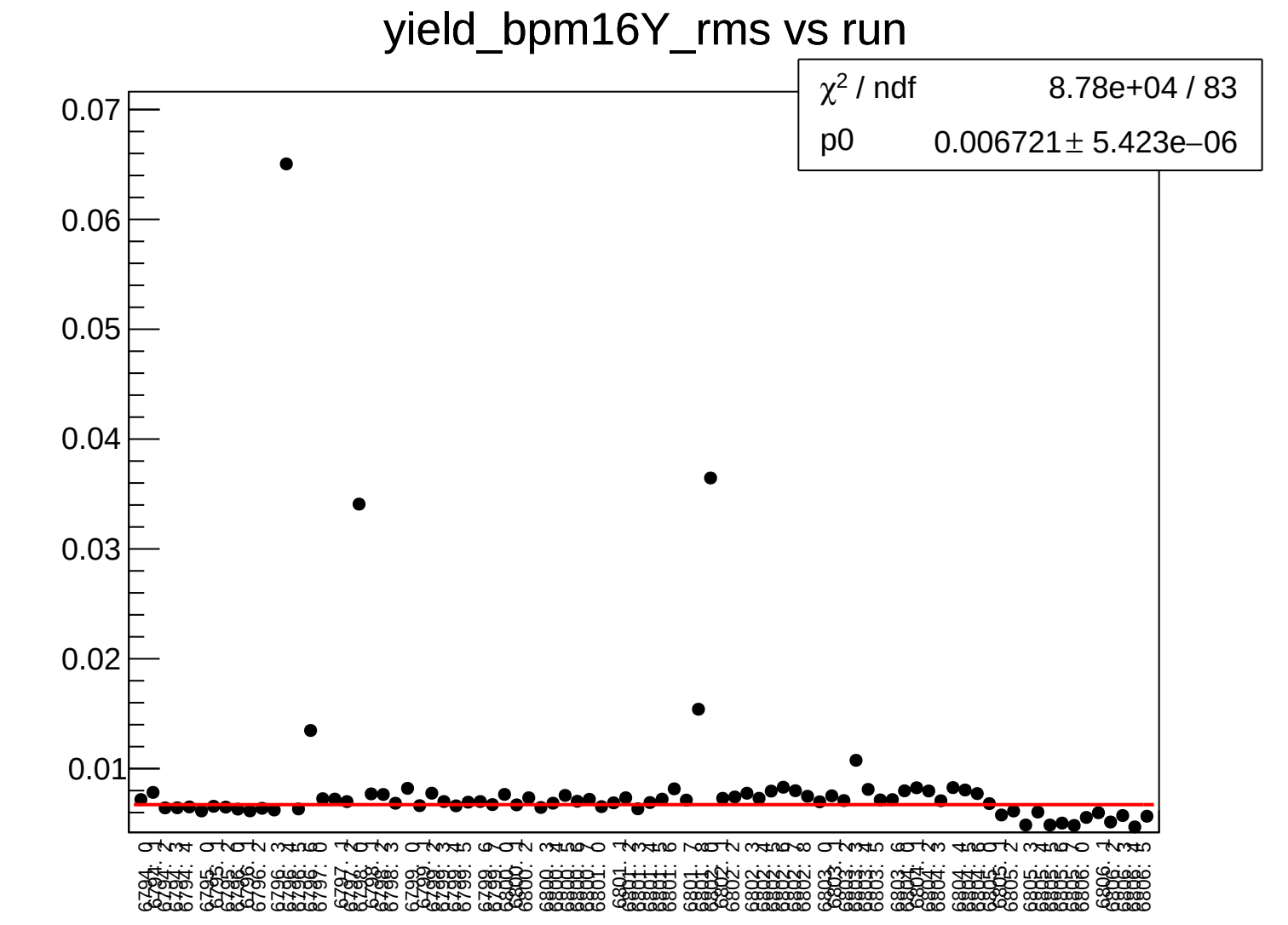

yield_bpm16X_mean vs run
χ² / ndf 6.35e+04 / 83
p0 −0.4329 ± 1.287e−05
−0.35
−0.4
−0.45
−0.5
−0.55
−0.6
−0.65
pull
Entries 84
Mean 255.4
Std Dev 227.5
80
60
40
20
0
−20
−40
−60
−80

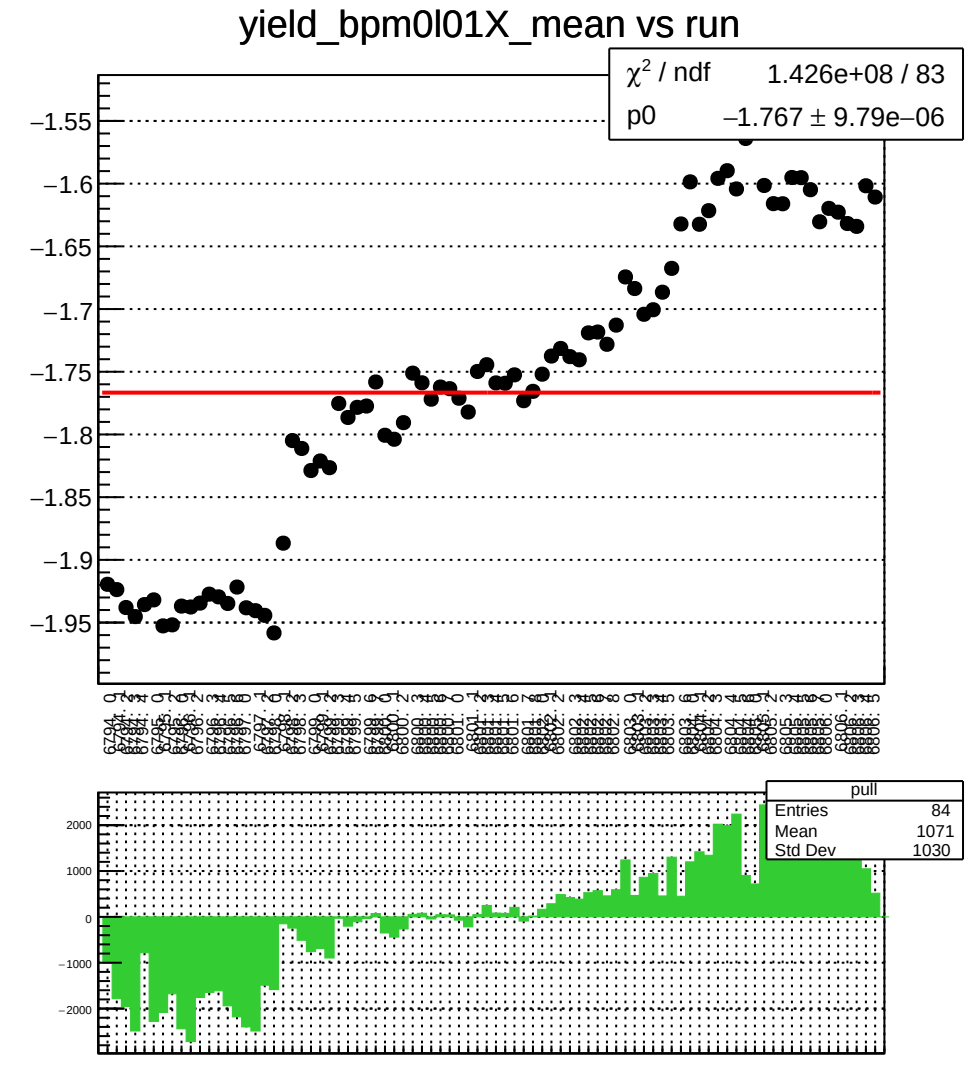

pull1D
Entries 84
Mean −0.9273
Std Dev 4.499
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

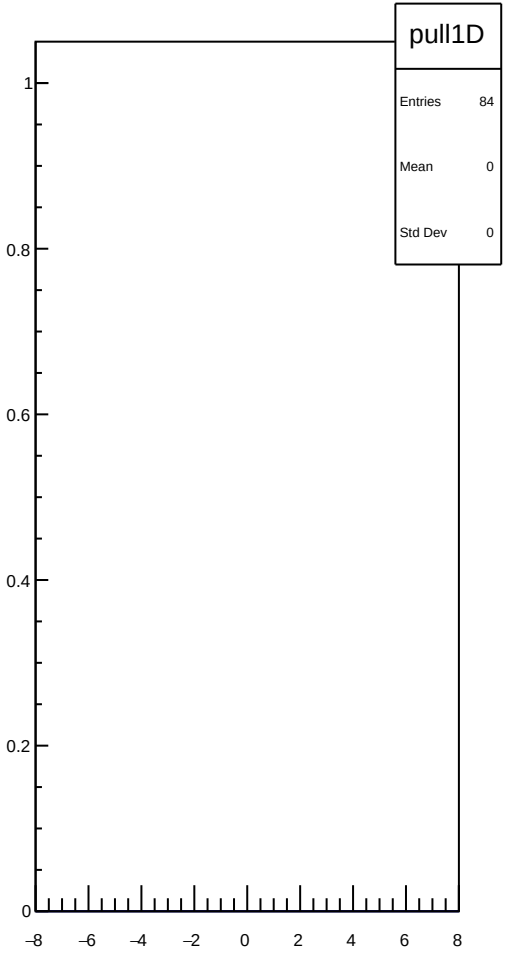

yield_bpm16X_rms vs run
χ² / ndf 2.705e+05 / 83
p0 0.01058 ± 9.098e–06
0.25
0.2
0.15
0.1
0.05

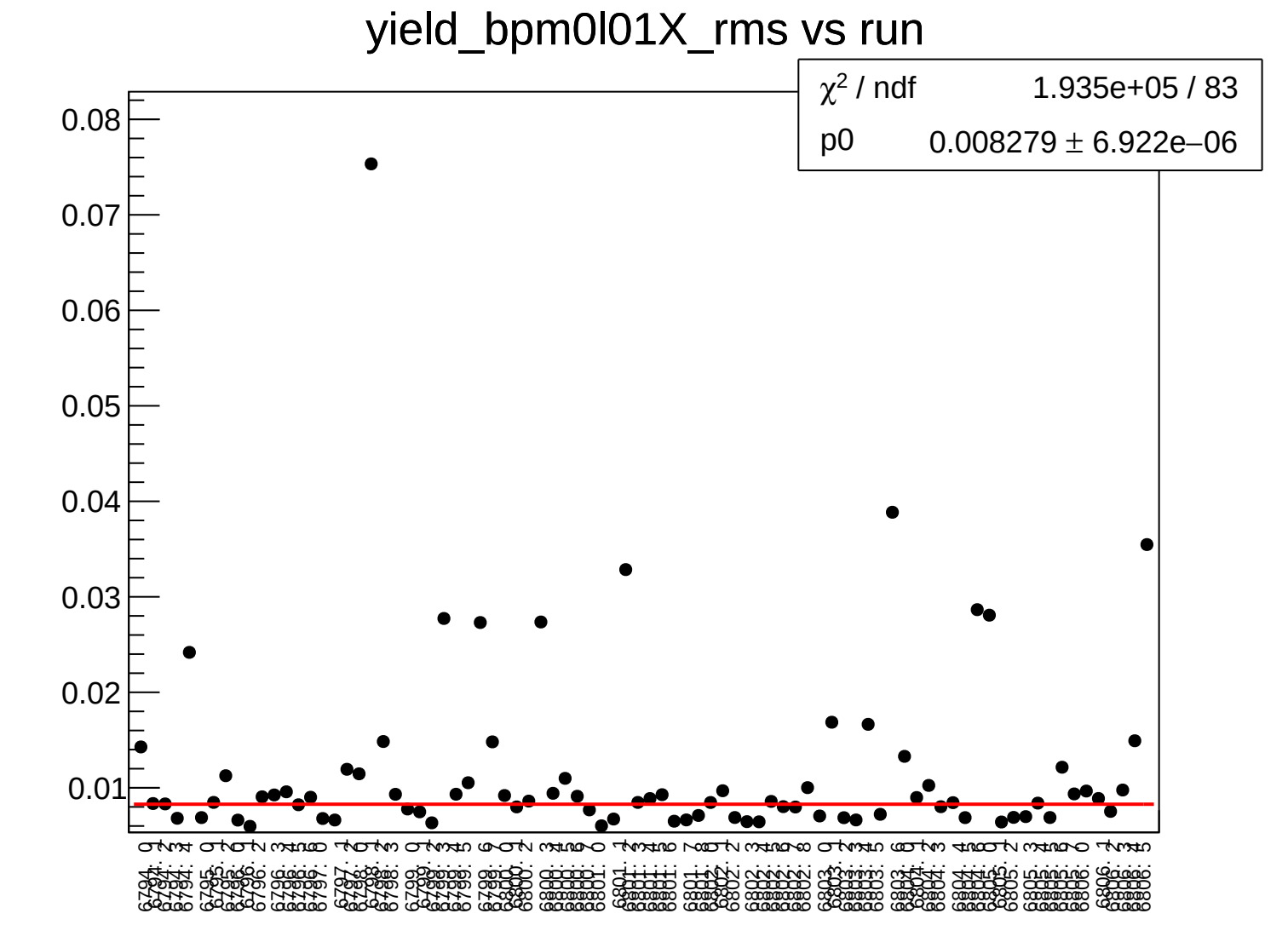

yield_bpm16Y_mean vs run
χ² / ndf 3.302e+04 / 83
p0 −0.227 ± 7.669e−06
−0.2
−0.21
−0.22
−0.23
−0.24
−0.25
−0.26
pull
Entries 84
Mean 116.5
Std Dev 82.49
40
20
0
−20
−40
−60
−80

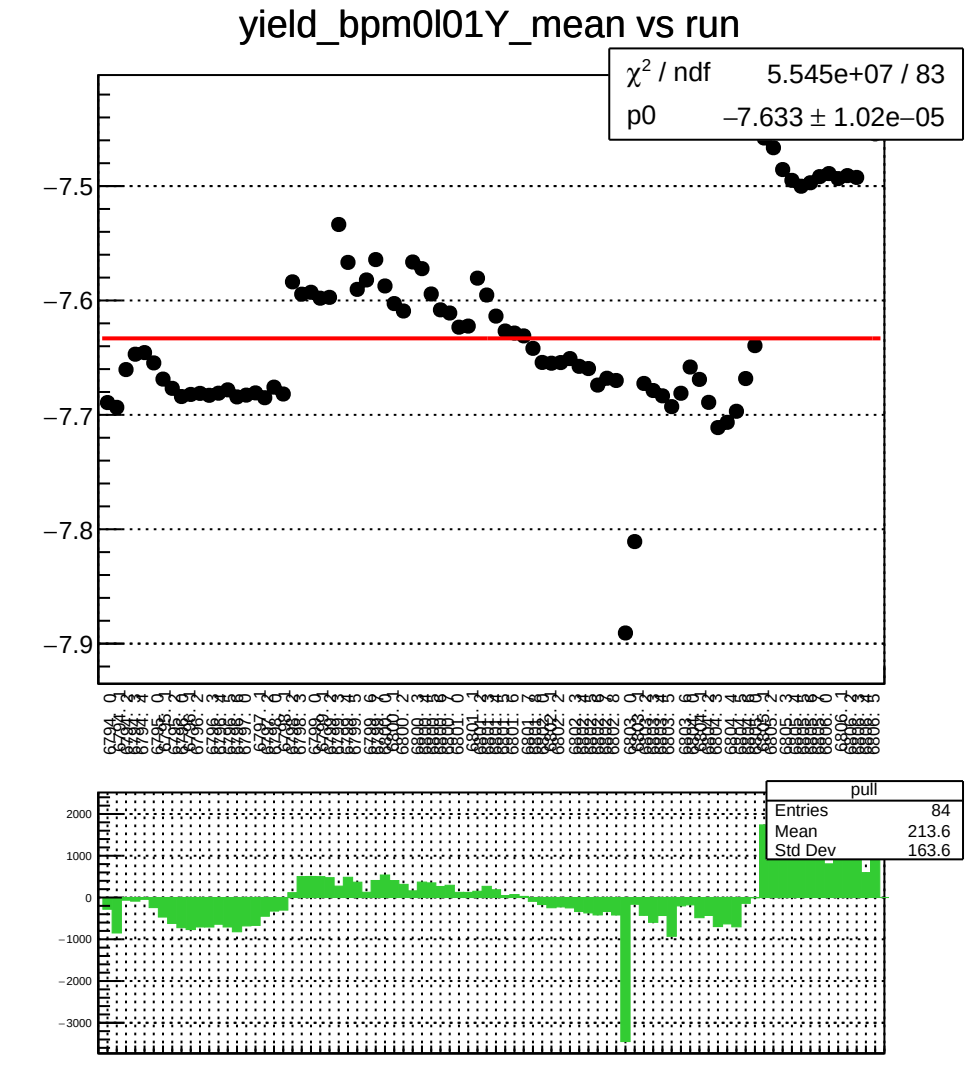

pull1D
Entries 84
Mean 1.072
Std Dev 4.021
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

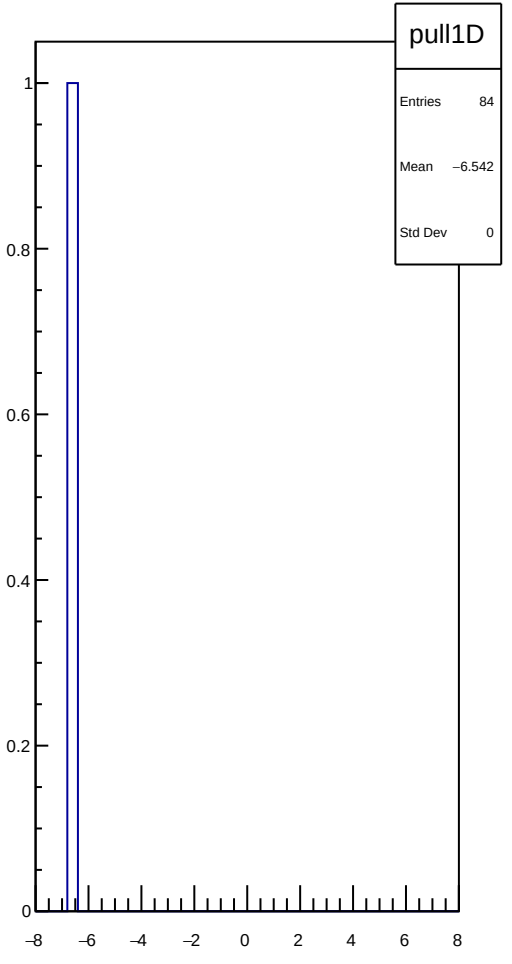

yield_bpm16Y_rms vs run
χ² / ndf 8.78e+04 / 83
p0 0.006721 ± 5.423e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

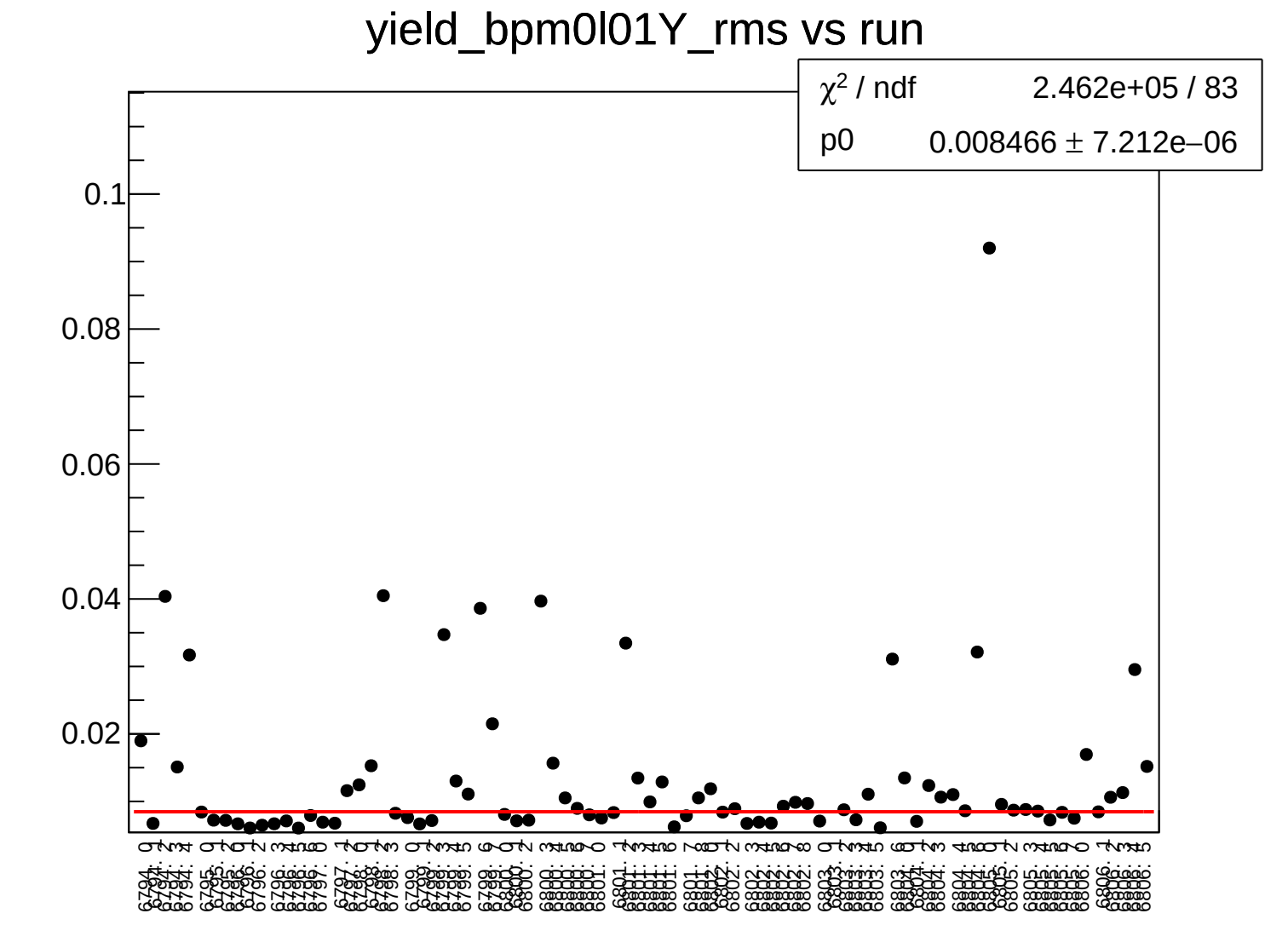

yield_bpm0l01X_mean vs run
χ² / ndf 1.426e+08 / 83
p0 −1.767 ± 9.79e−06
−1.55
−1.6
−1.65
−1.7
−1.75
−1.8
−1.85
−1.9
−1.95
pull
Entries 84
Mean 1071
Std Dev 1030
2000
1000
0
−1000
−2000

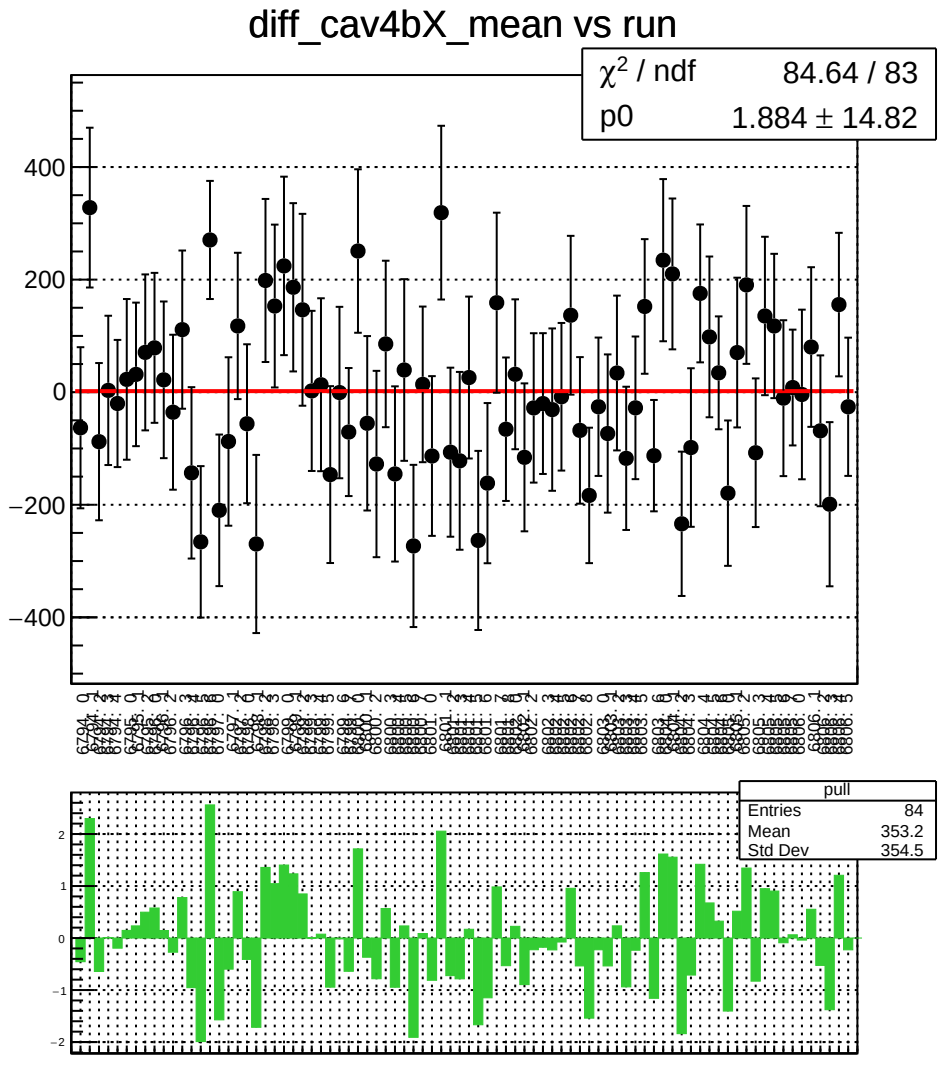

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

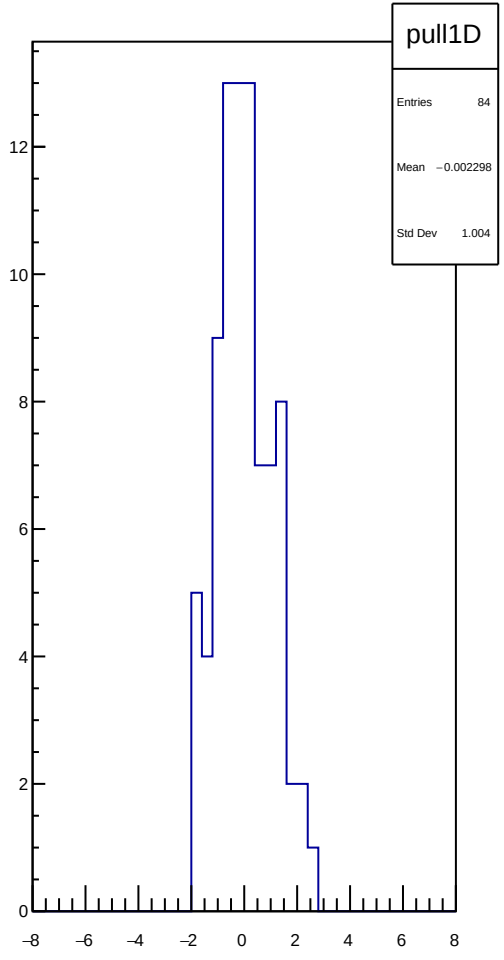

yield_bpm0l01X_rms vs run
χ² / ndf 1.935e+05 / 83
p0 0.008279 ± 6.922e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

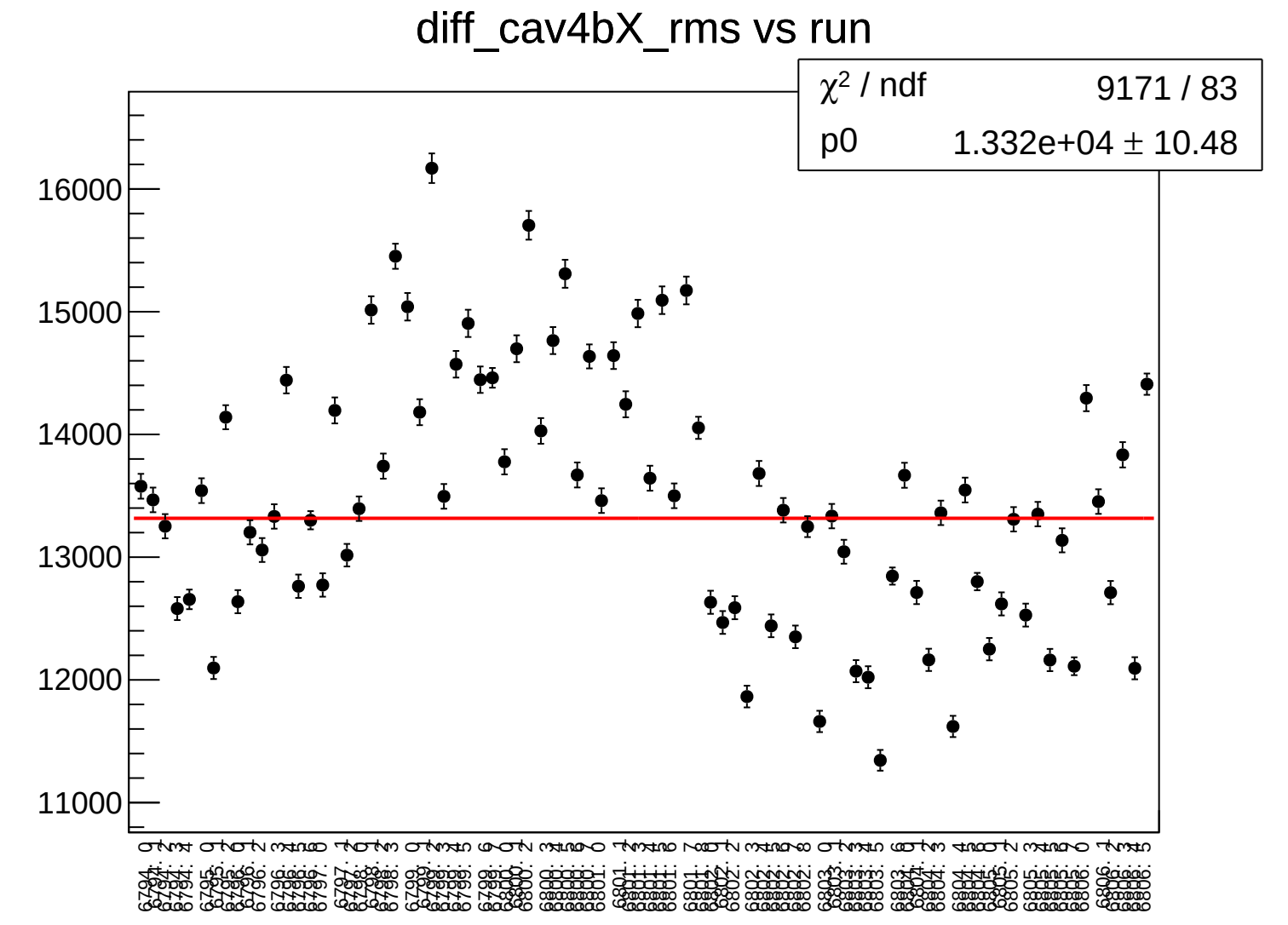

yield_bpm0l01Y_mean vs run
χ² / ndf 5.545e+07 / 83
p0 −7.633 ± 1.02e−05
−7.5
−7.6
−7.7
−7.8
−7.9
pull
Entries 84
Mean 213.6
Std Dev 163.6
2000
1000
0
−1000
−2000
−3000

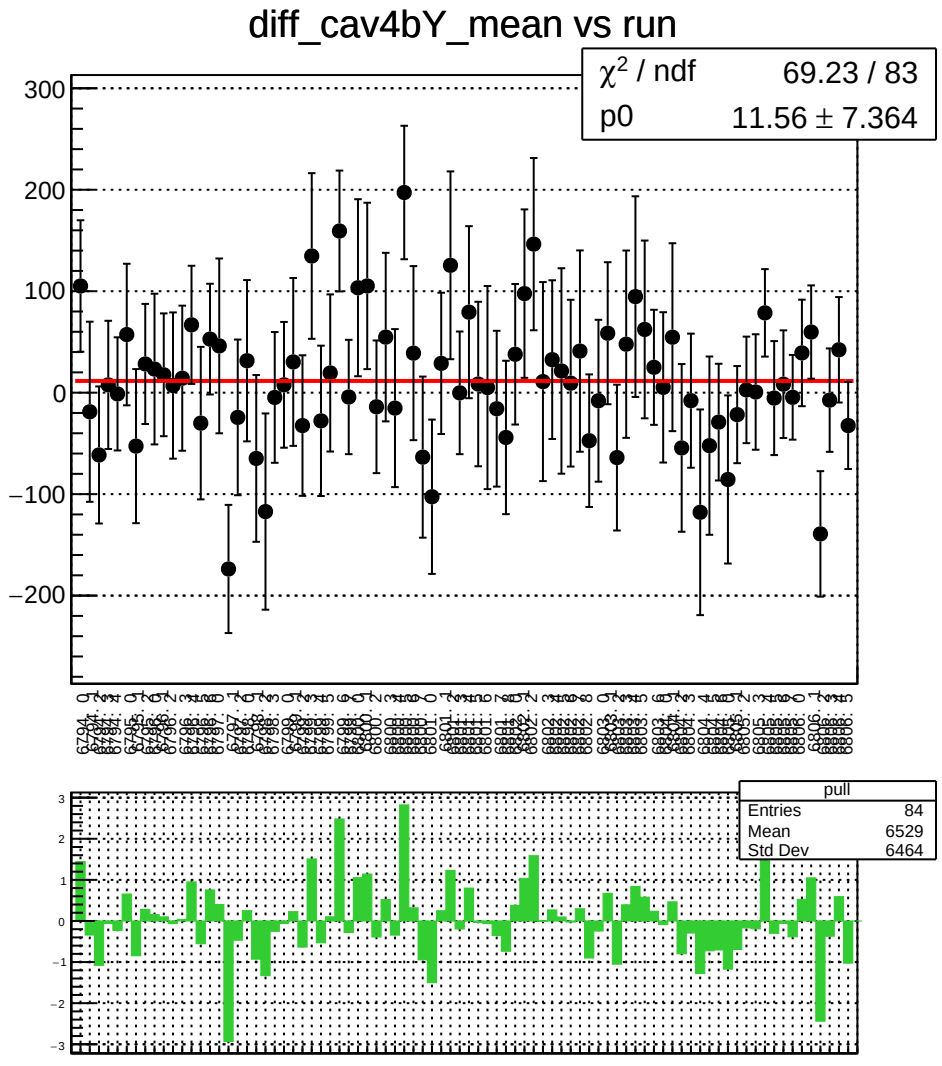

pull1D
Entries 84
Mean −6.542
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

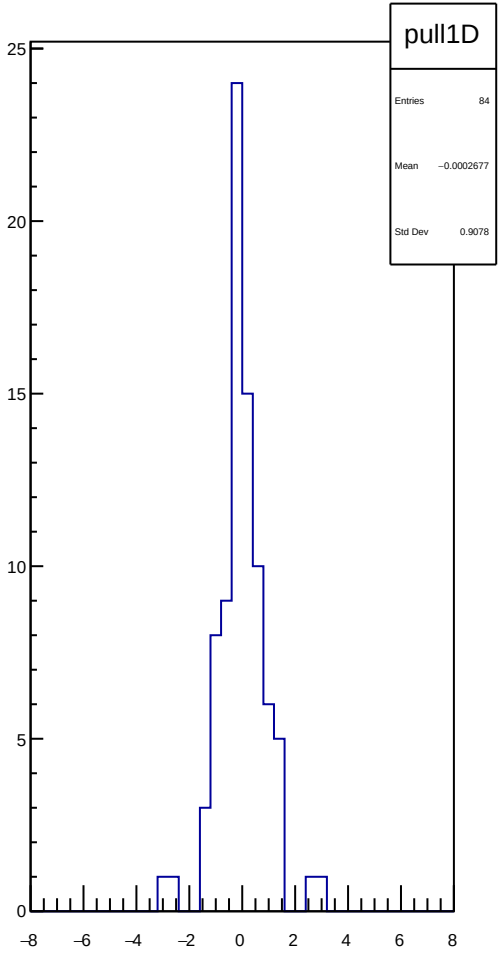

yield_bpm0l01Y_rms vs run
χ² / ndf 2.462e+05 / 83
p0 0.008466 ± 7.212e−06
0.1
0.08
0.06
0.04
0.02

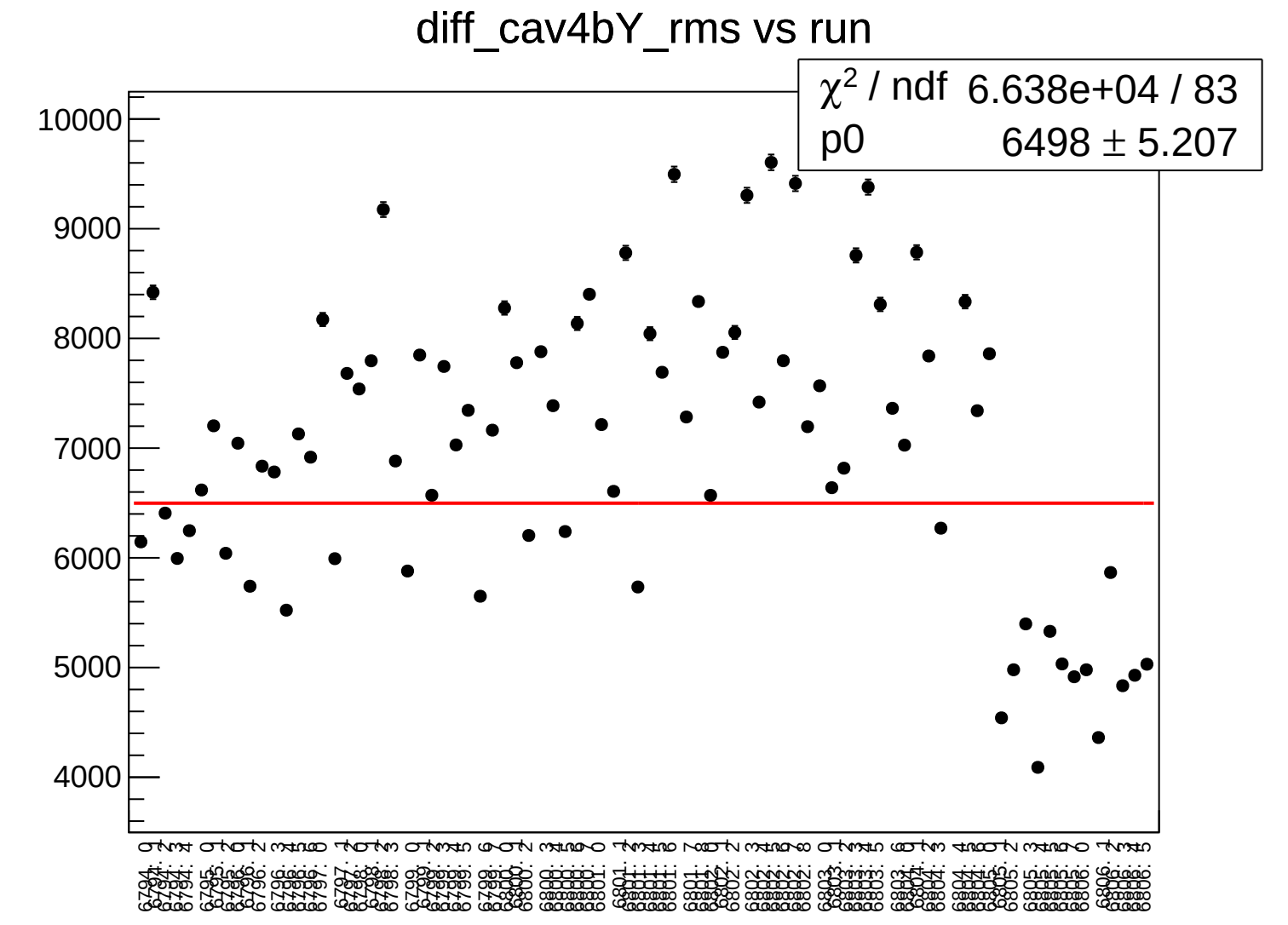

diff_cav4bX_mean vs run
χ² / ndf 84.64 / 83
p0 1.884 ± 14.82
400
200
0
−200
−400
pull
Entries 84
Mean 353.2
Std Dev 354.5
2
1
0
−1
−2

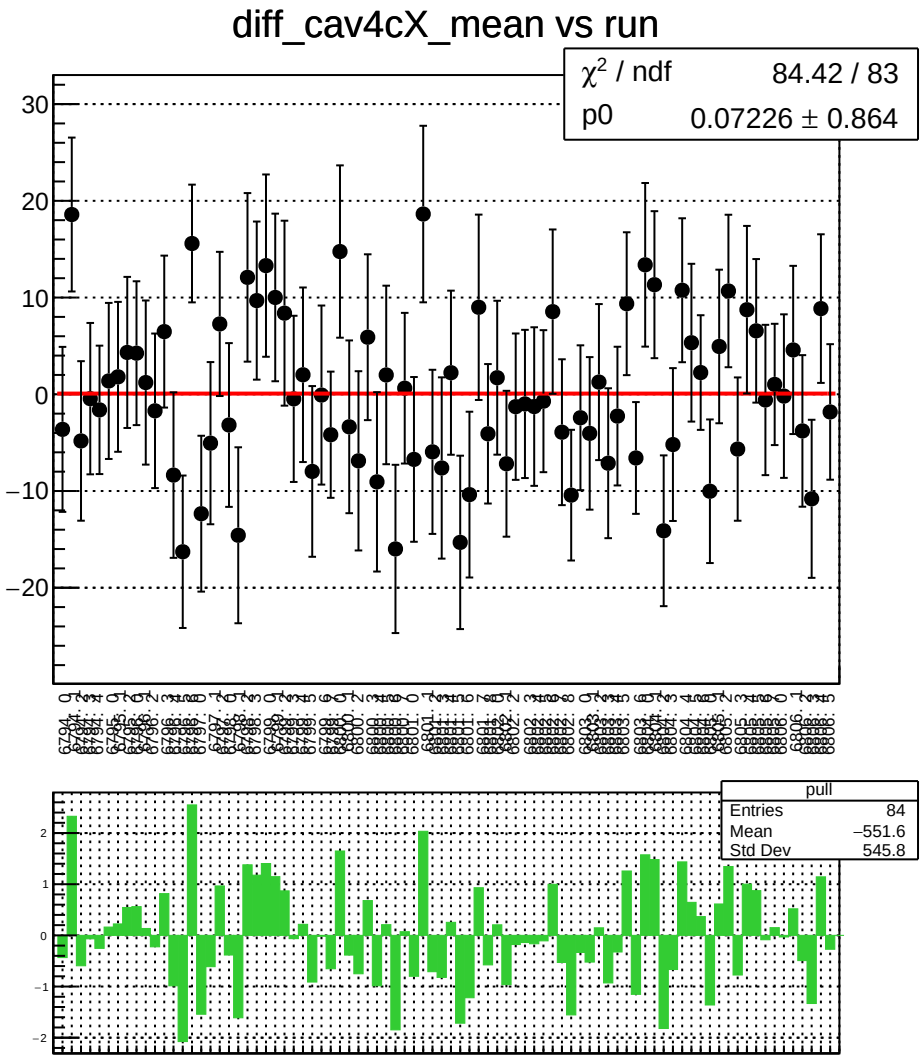

pull1D
Entries 84
Mean −0.002298
Std Dev 1.004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

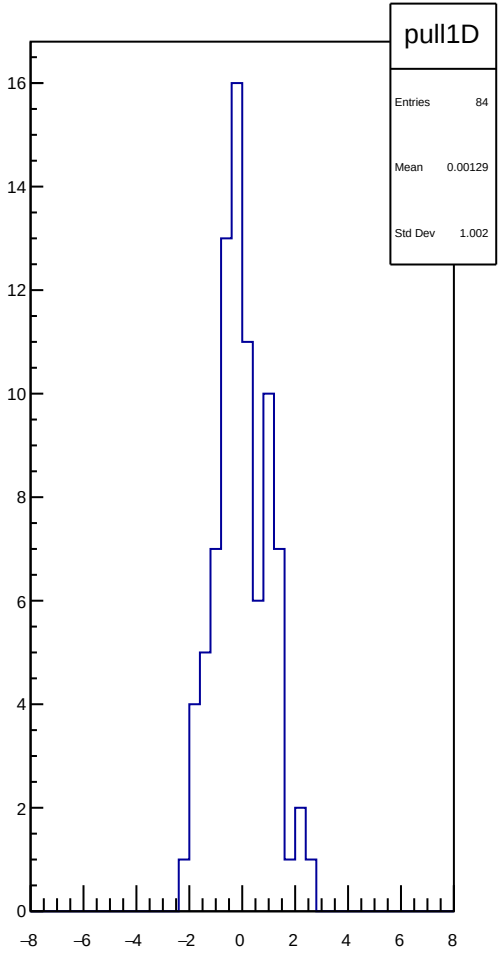

diff_cav4bX_rms vs run
χ² / ndf 9171 / 83
p0 1.332e+04 ± 10.48
16000
15000
14000
13000
12000
11000

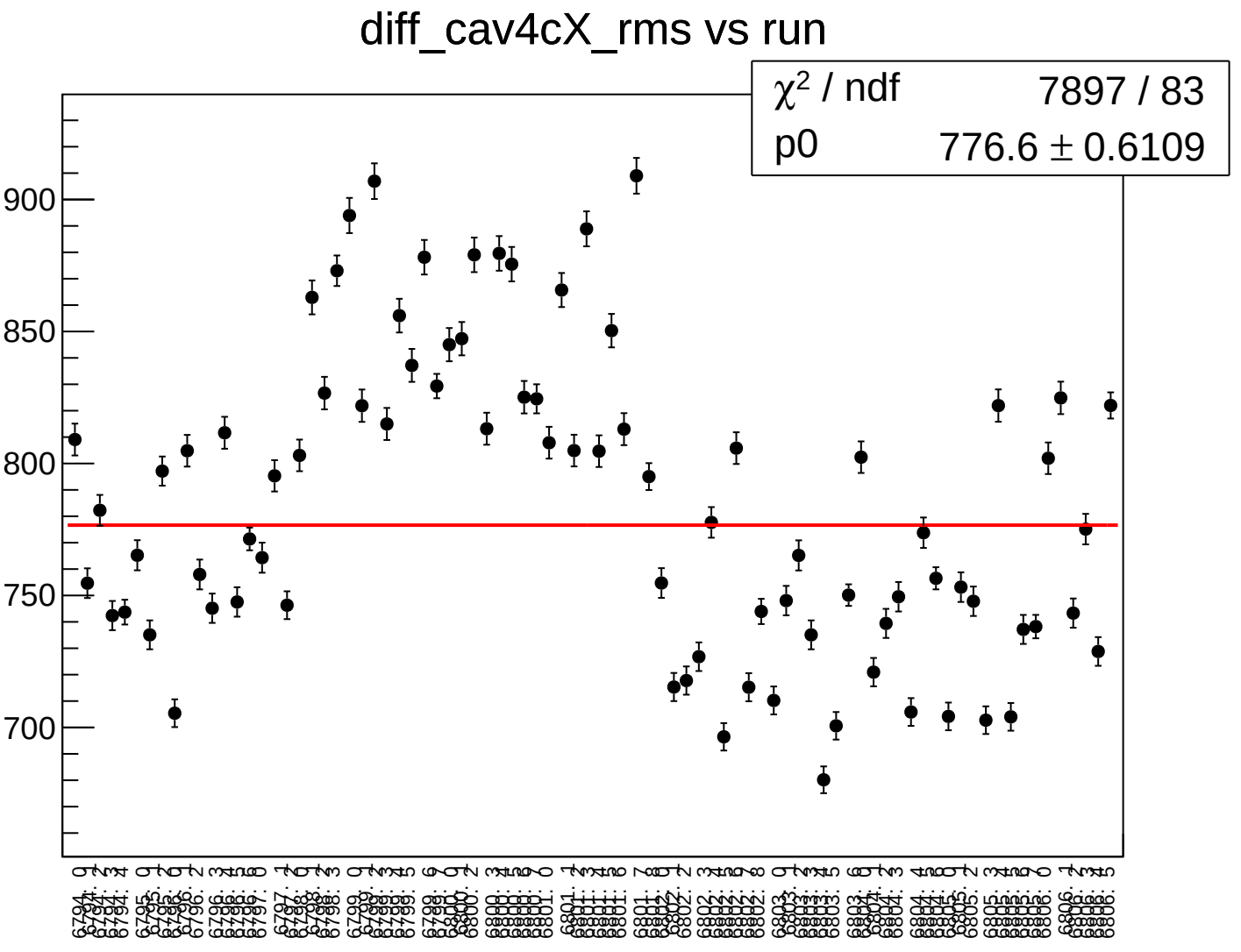

diff_cav4bY_mean vs run
χ^2 / ndf 69.23 / 83
p0 11.56 ± 7.364
pull
Entries 84
Mean 6529
Std Dev 6464

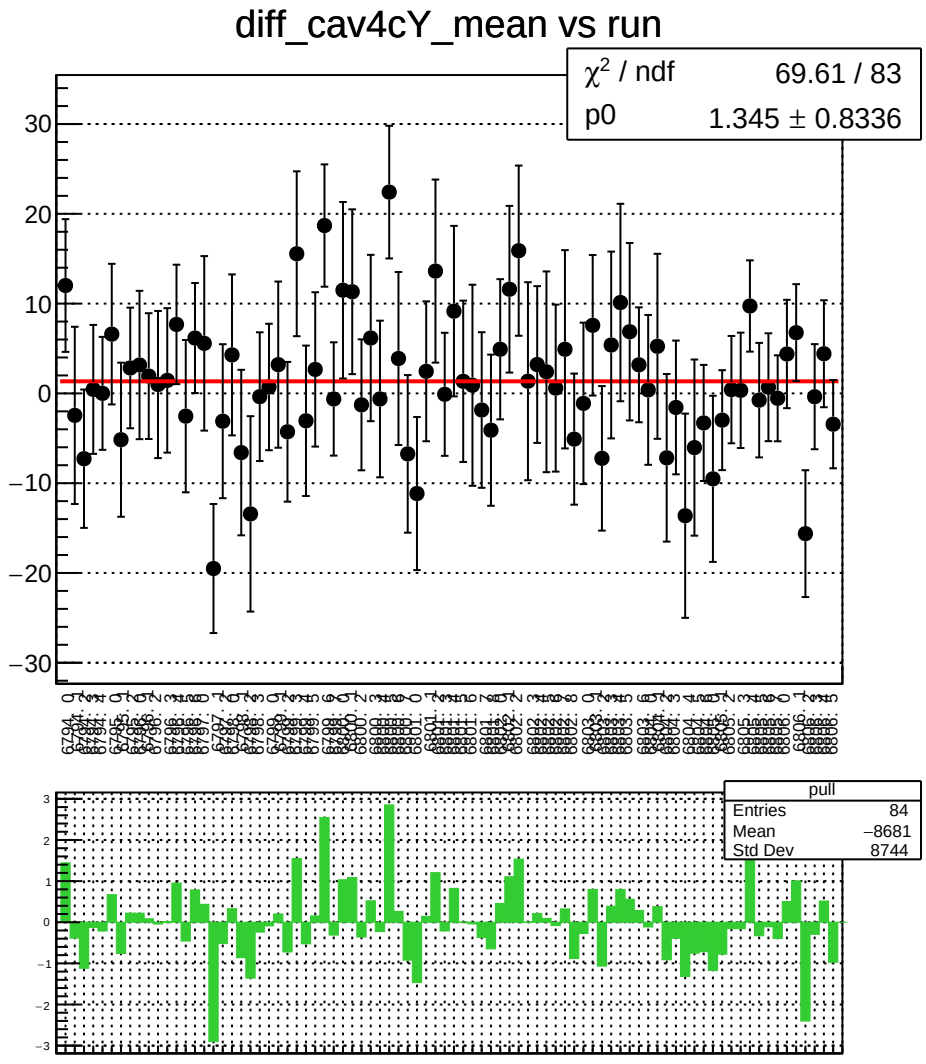

pull1D
Entries 84
Mean −0.0002677
Std Dev 0.9078

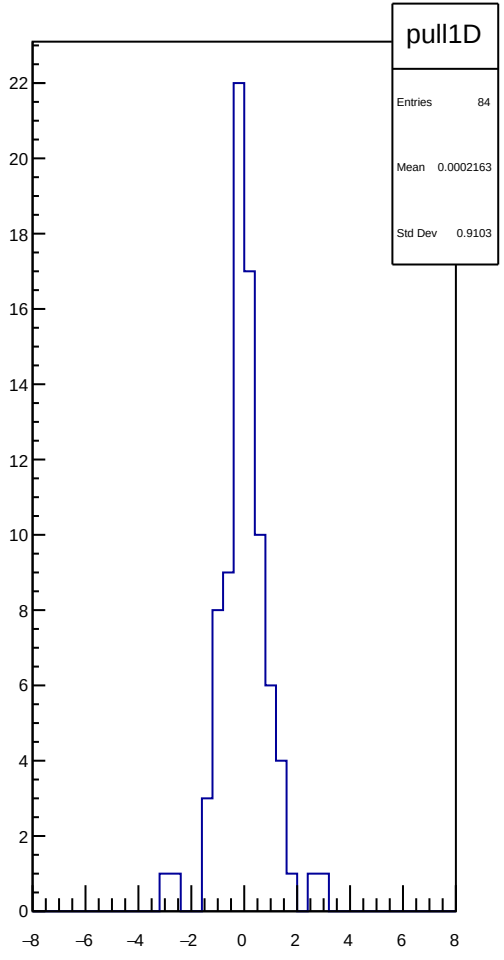

diff_cav4bY_rms vs run
χ^2 / ndf 6.638e+04 / 83
p0 6498 ± 5.207
10000
9000
8000
7000
6000
5000
4000

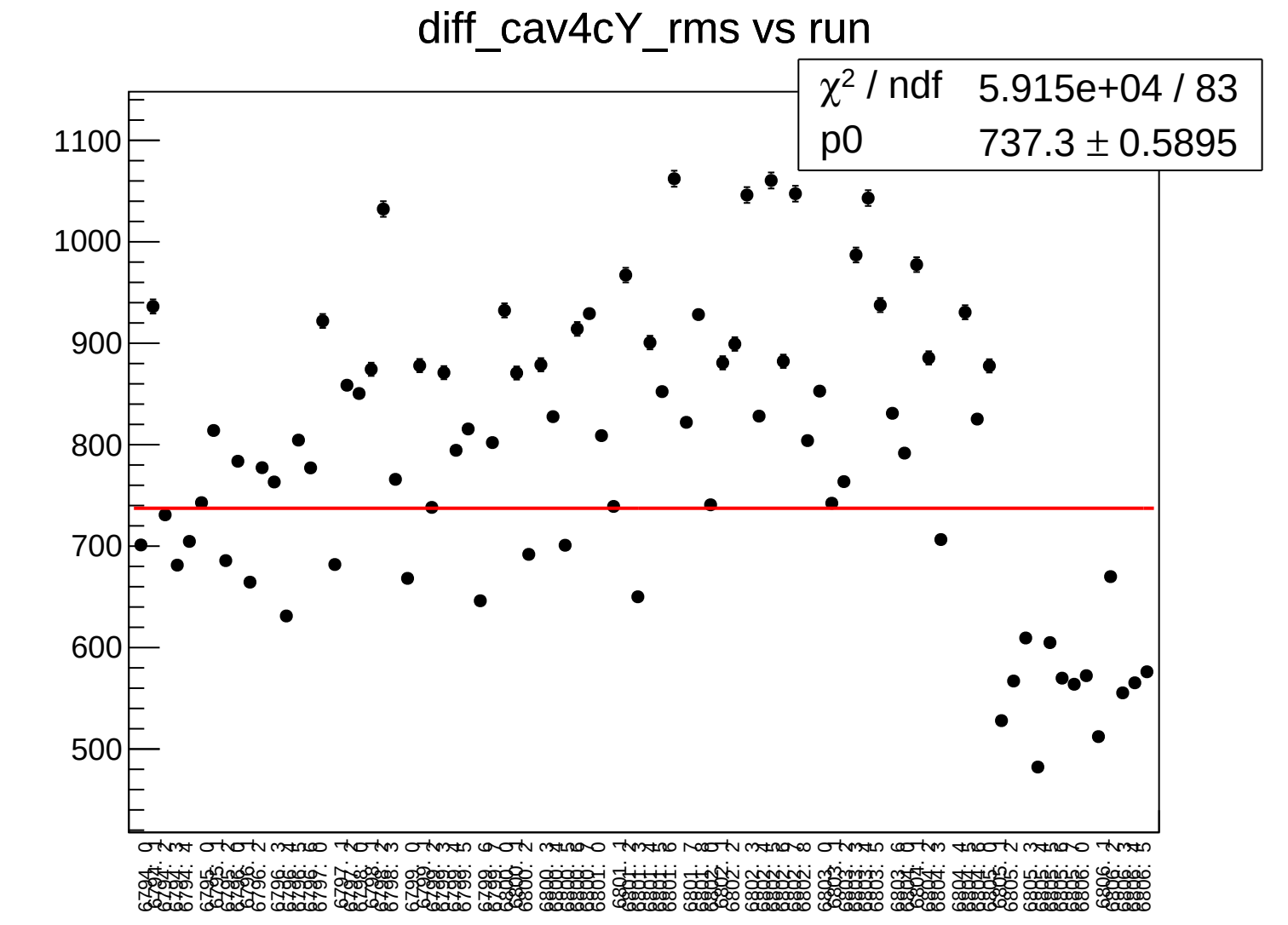

diff_cav4cX_mean vs run
χ² / ndf 84.42 / 83
p0 0.07226 ± 0.864
pull
Entries 84
Mean −551.6
Std Dev 545.8

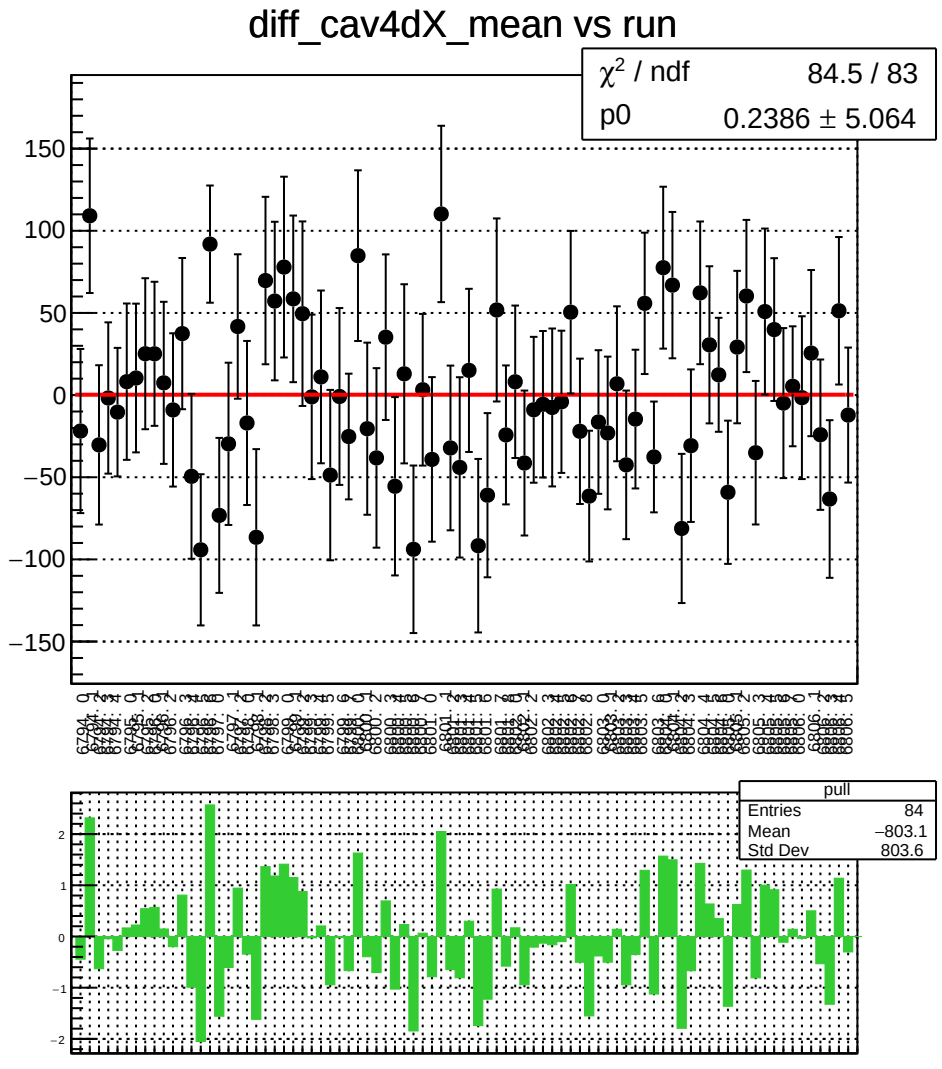

pull1D
Entries 84
Mean 0.00129
Std Dev 1.002

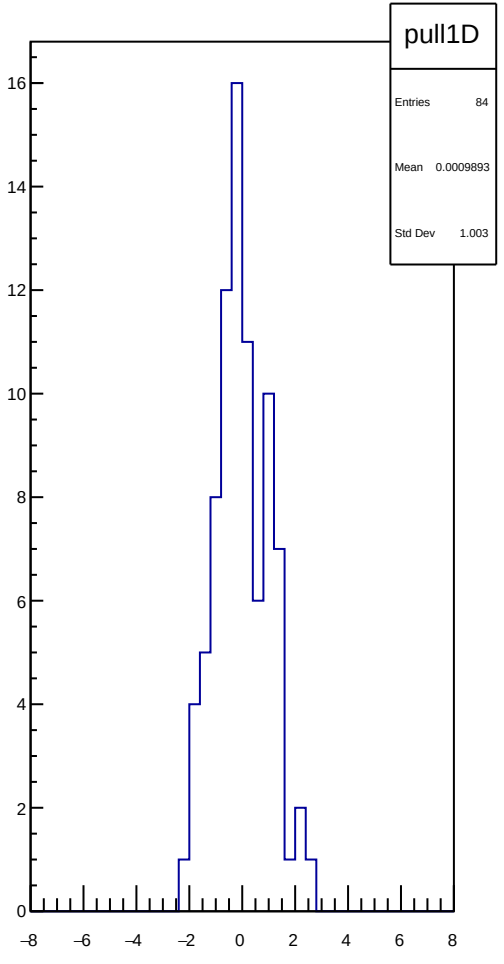

diff_cav4cX_rms vs run
χ² / ndf 7897 / 83
p0 776.6 ± 0.6109
900
850
800
750
700

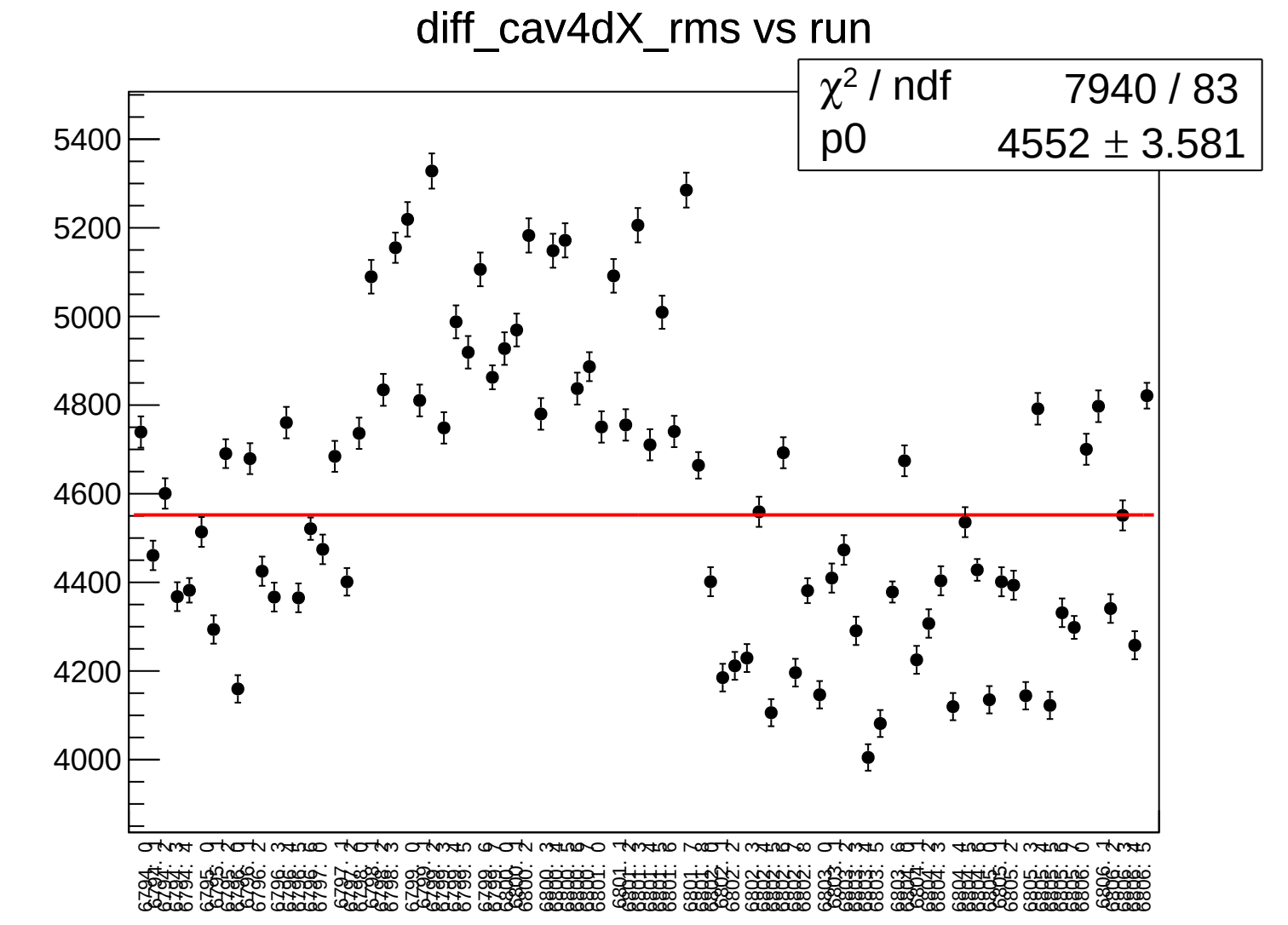

diff_cav4cY_mean vs run
χ² / ndf 69.61 / 83
p0 1.345 ± 0.8336
pull
Entries 84
Mean −8681
Std Dev 8744

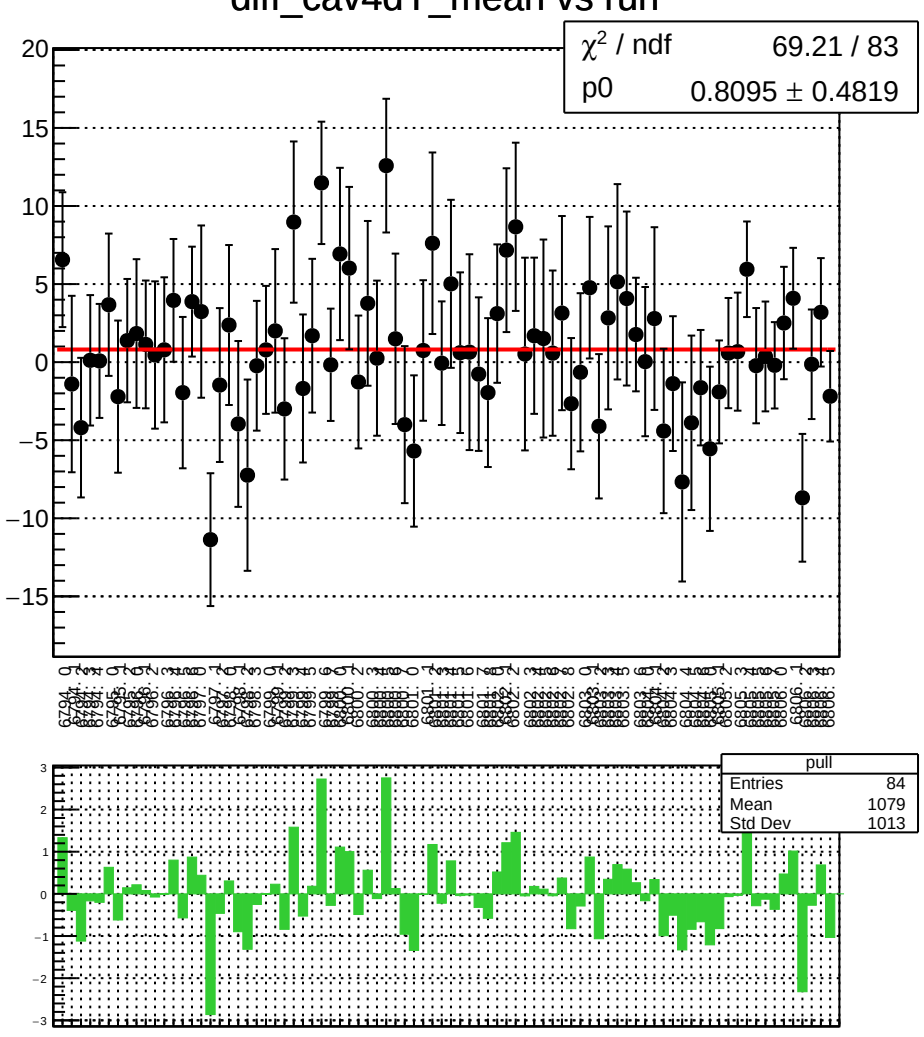

pull1D
Entries 84
Mean 0.0002163
Std Dev 0.9103

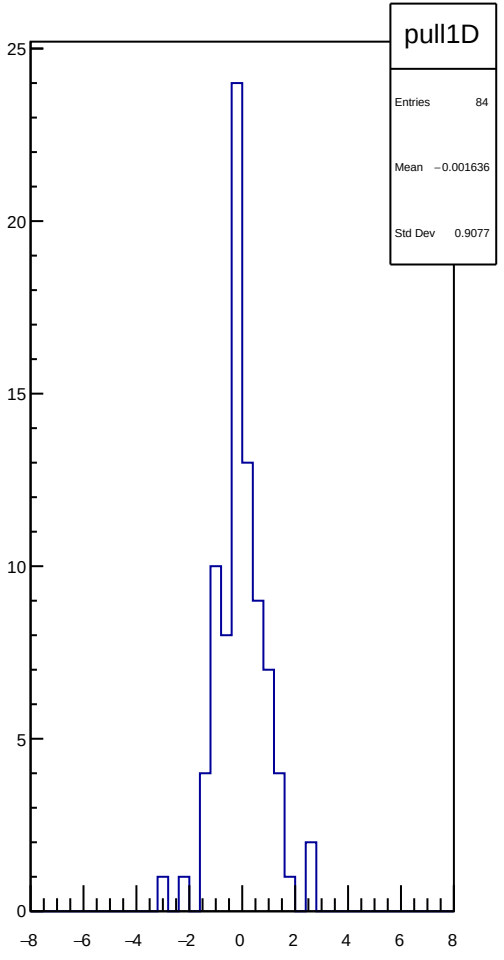

diff_cav4cY_rms vs run
χ² / ndf 5.915e+04 / 83
p0 737.3 ± 0.5895
1100
1000
900
800
700
600
500

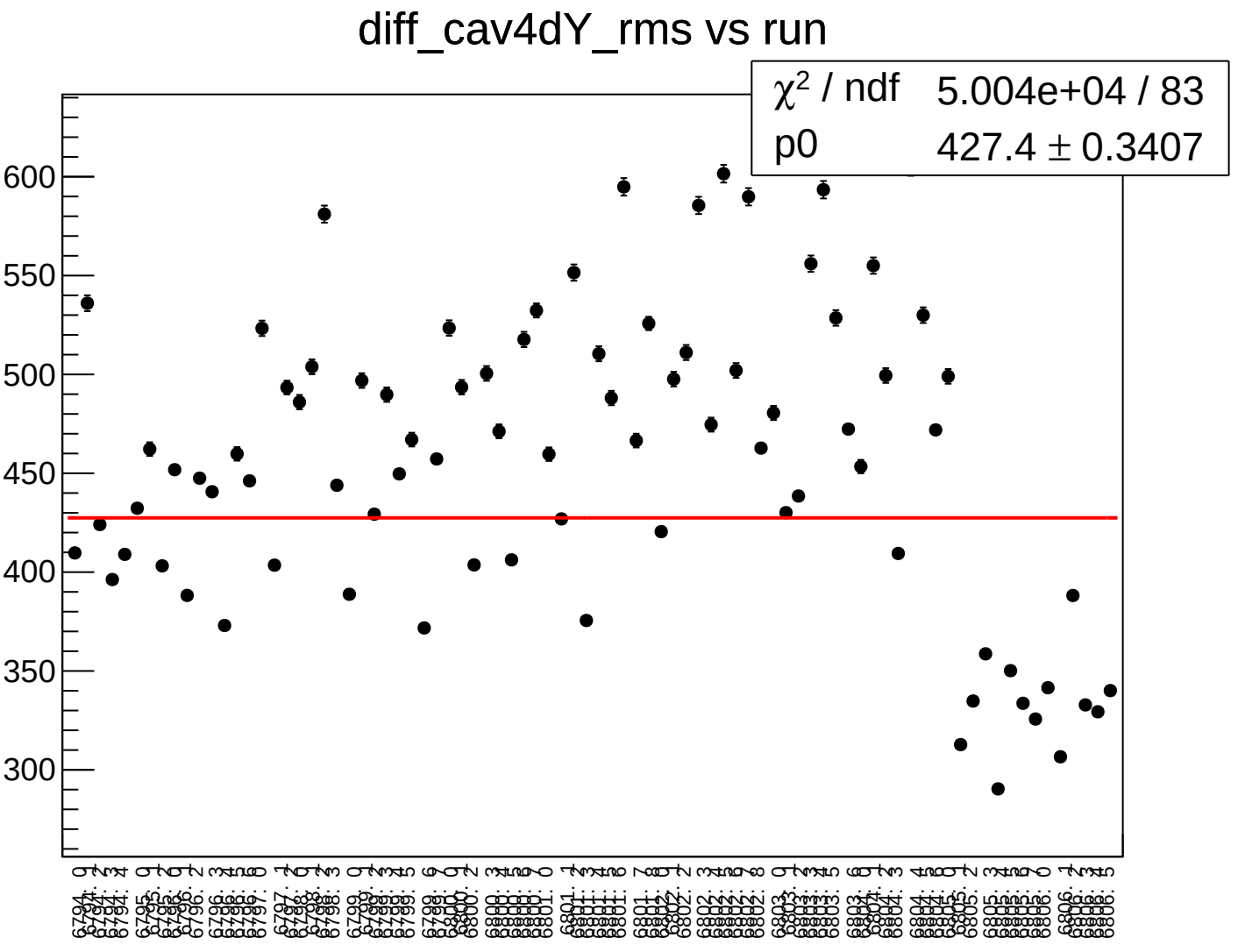

diff_cav4dX_mean vs run
χ² / ndf 84.5 / 83
p0 0.2386 ± 5.064
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −803.1
Std Dev 803.6
2
1
0
−1
−2

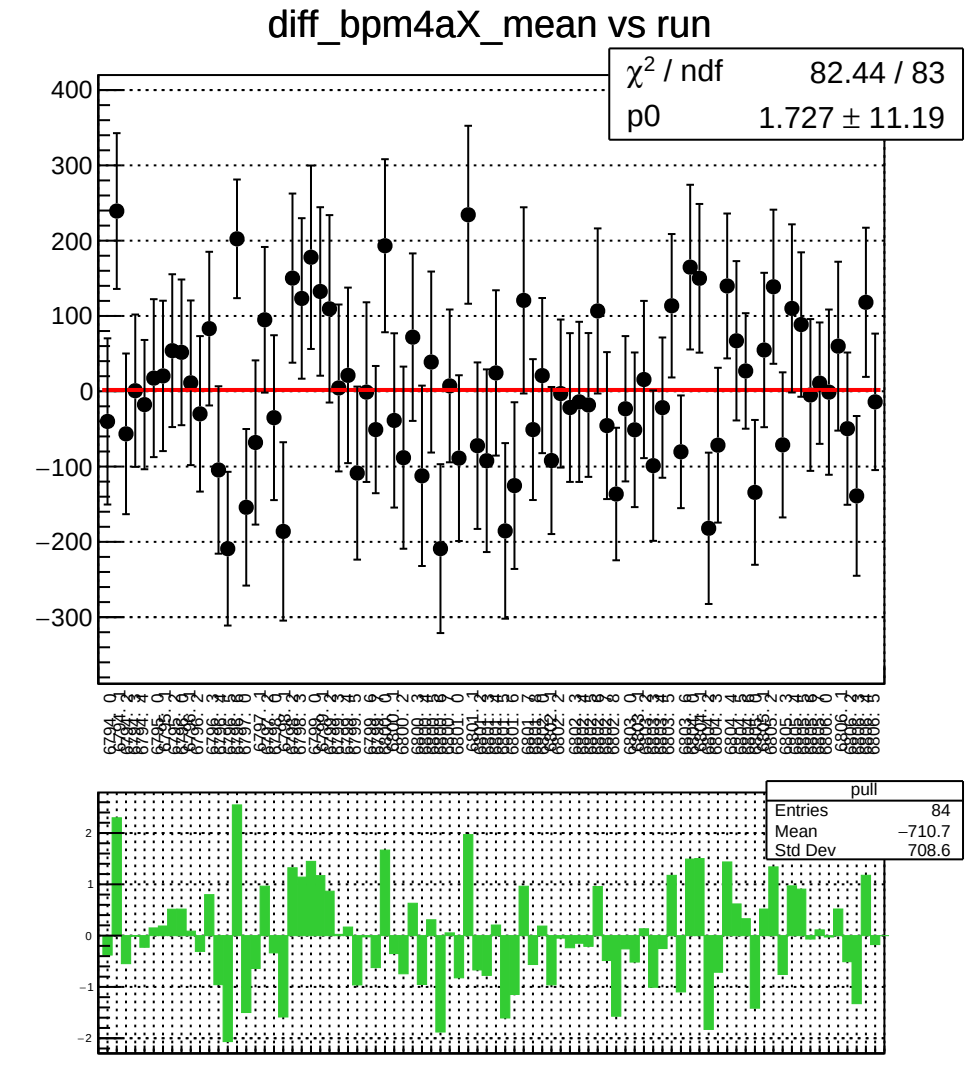

pull1D
Entries 84
Mean 0.0009893
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

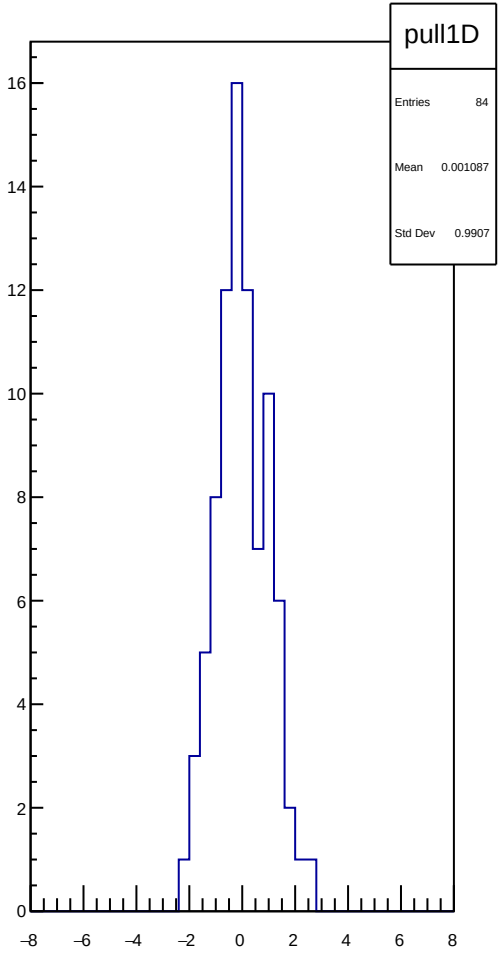

diff_cav4dX_rms vs run
χ² / ndf 7940 / 83
p0 4552 ± 3.581
5400
5200
5000
4800
4600
4400
4200
4000

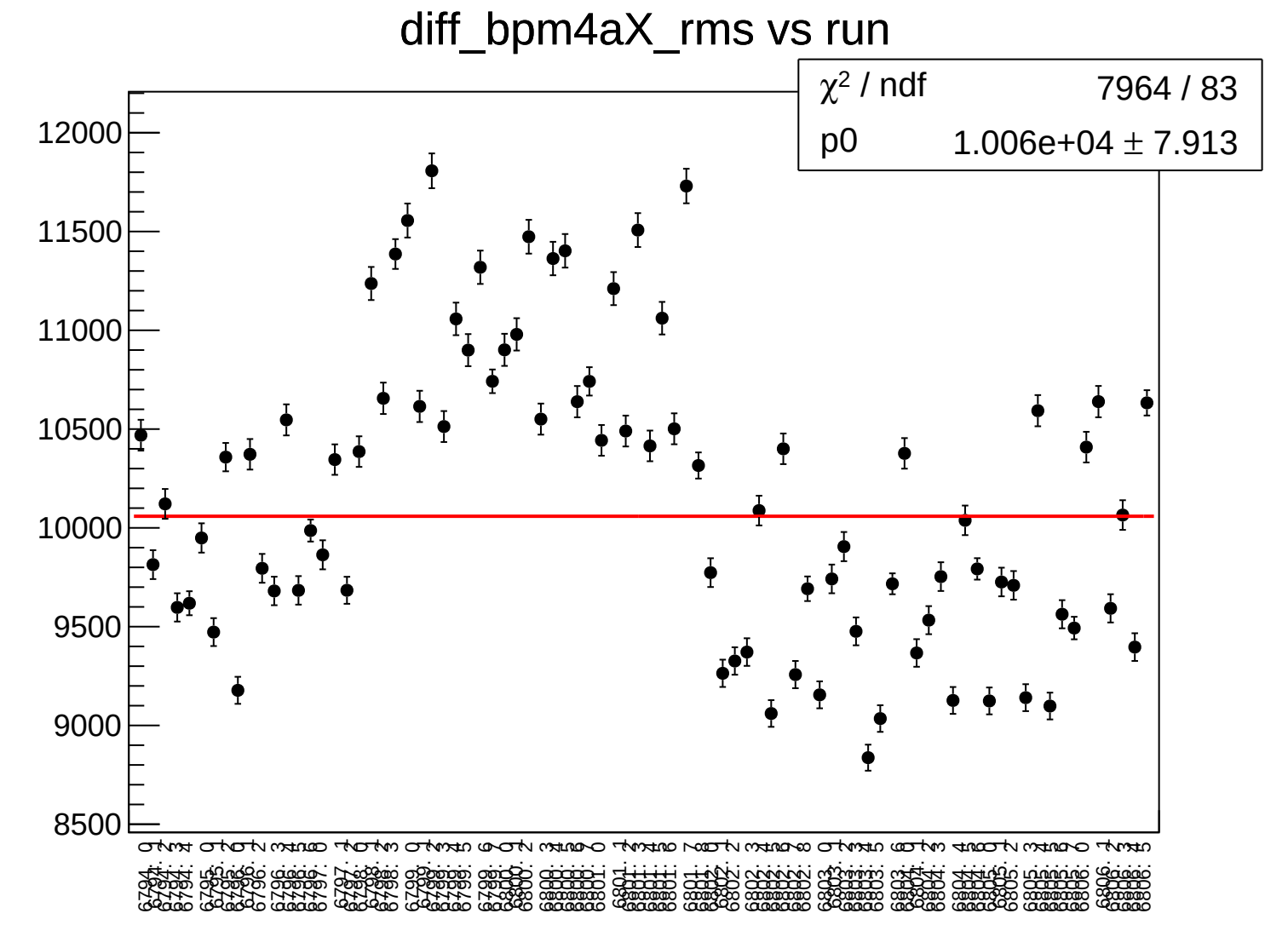

diff_cav4dY_mean vs run
χ² / ndf 69.21 / 83
p0 0.8095 ± 0.4819
pull
Entries 84
Mean 1079
Std Dev 1013

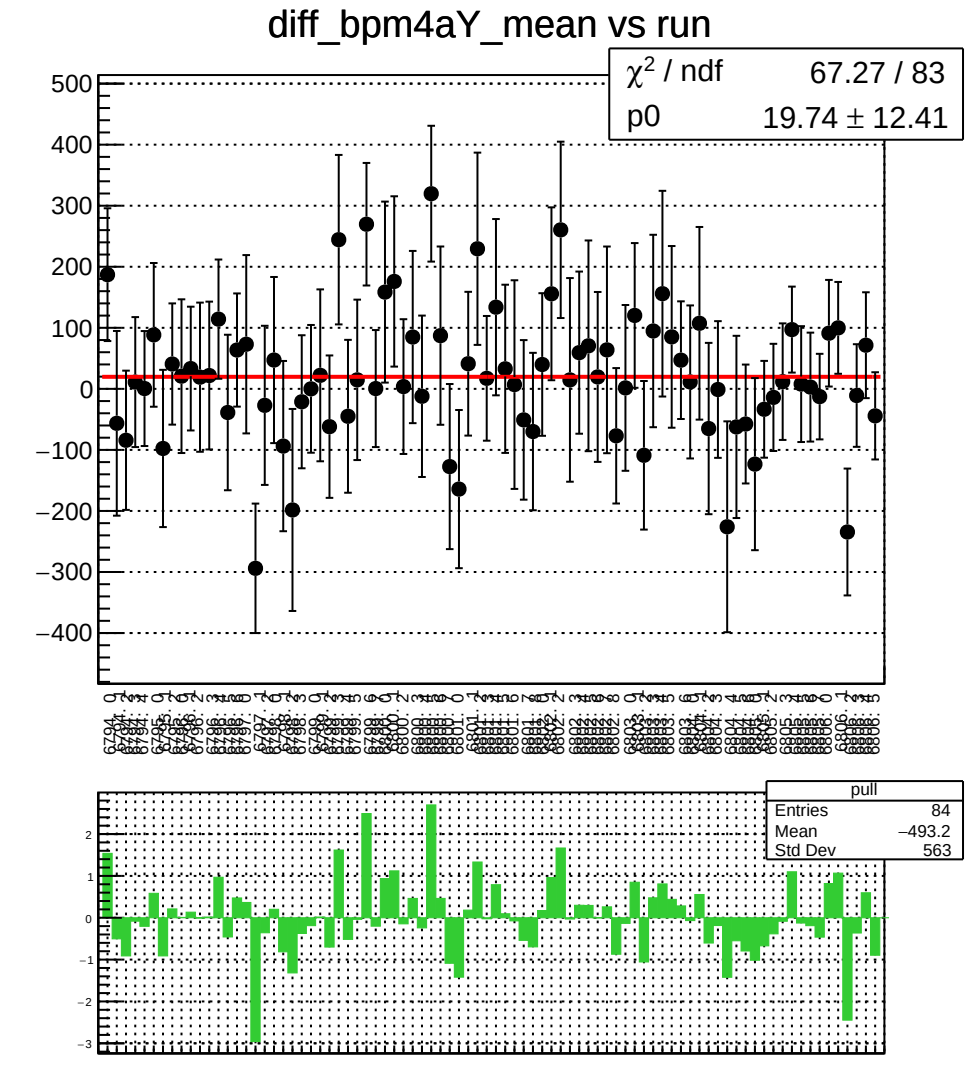

pull1D
Entries 84
Mean −0.001636
Std Dev 0.9077

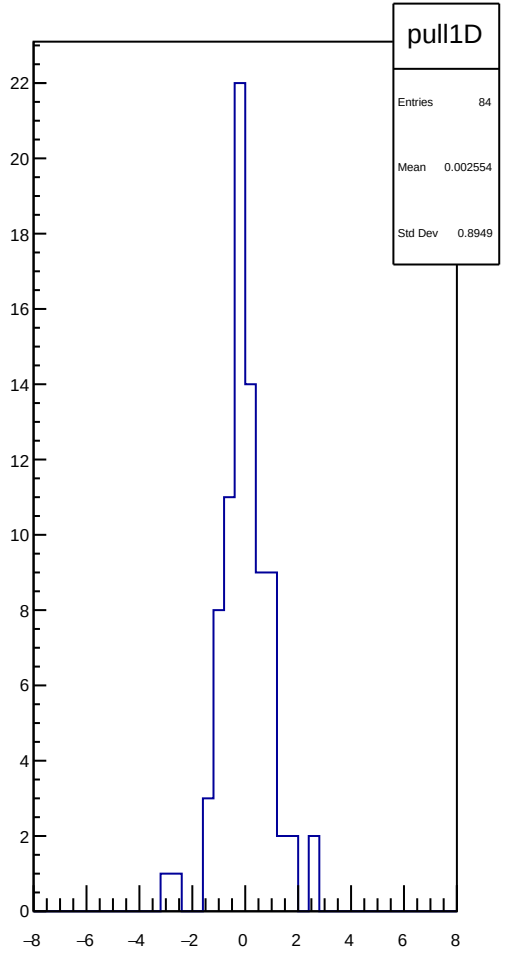

diff_cav4dY_rms vs run
χ^2 / ndf 5.004e+04 / 83
p0 427.4 ± 0.3407
600
550
500
450
400
350
300

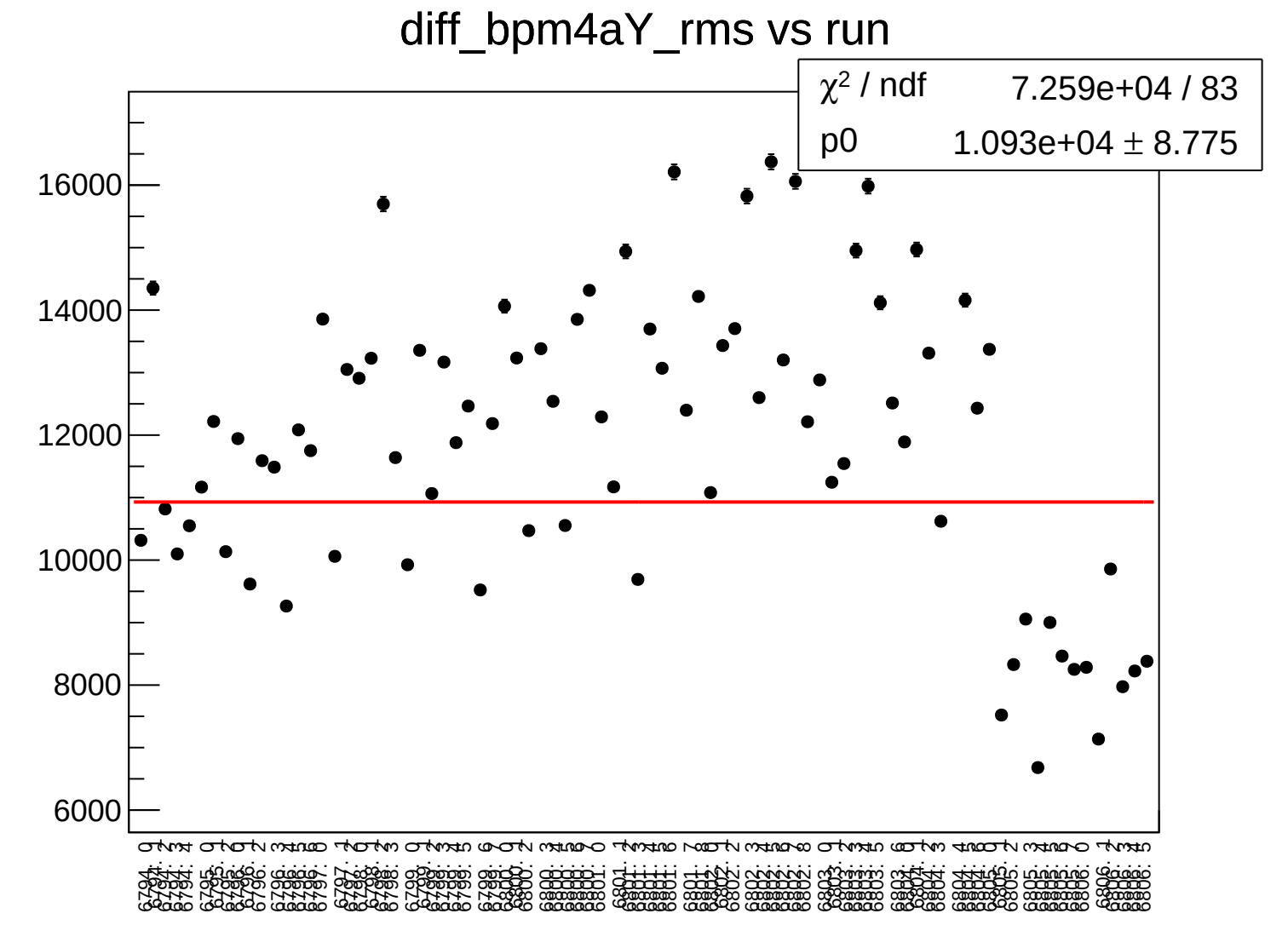

diff_bpm4aX_mean vs run
χ² / ndf 82.44 / 83
p0 1.727 ± 11.19
pull
Entries 84
Mean −710.7
Std Dev 708.6

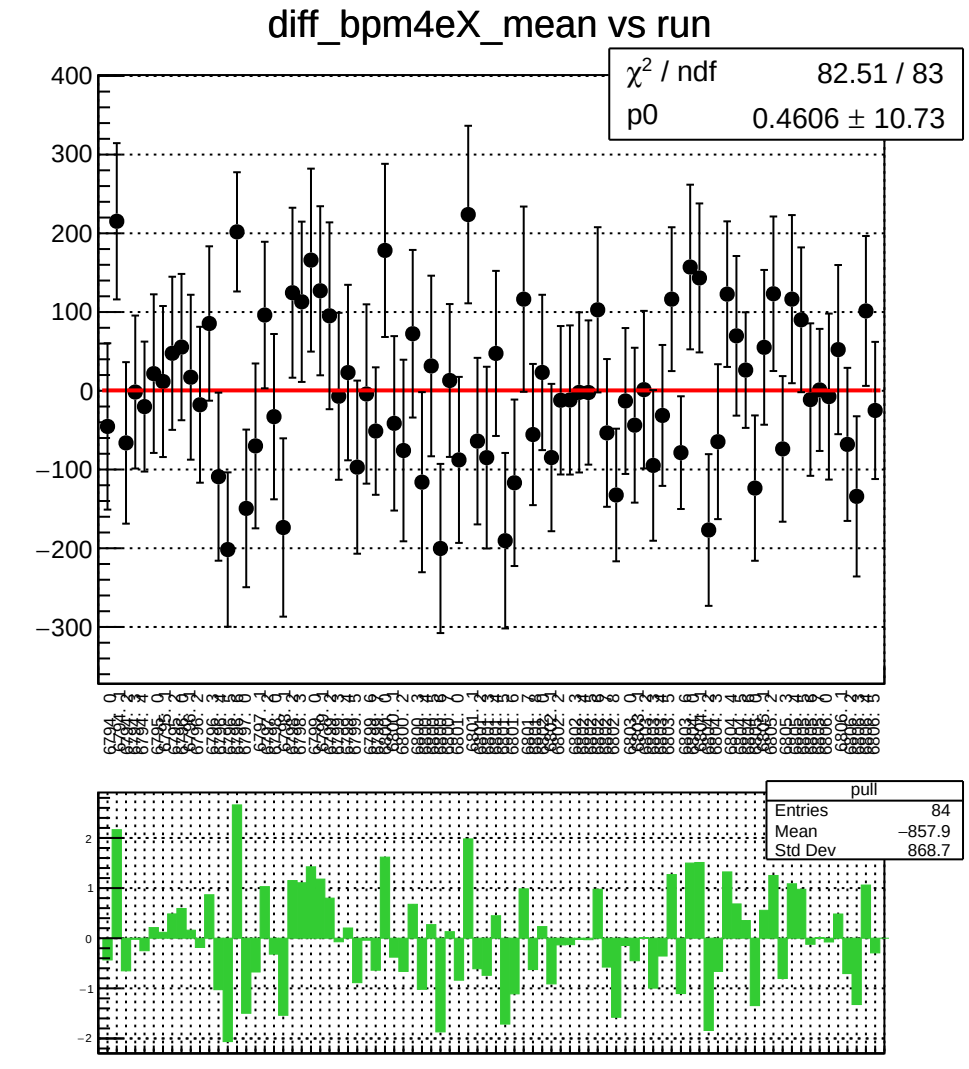

pull1D
Entries 84
Mean 0.001087
Std Dev 0.9907

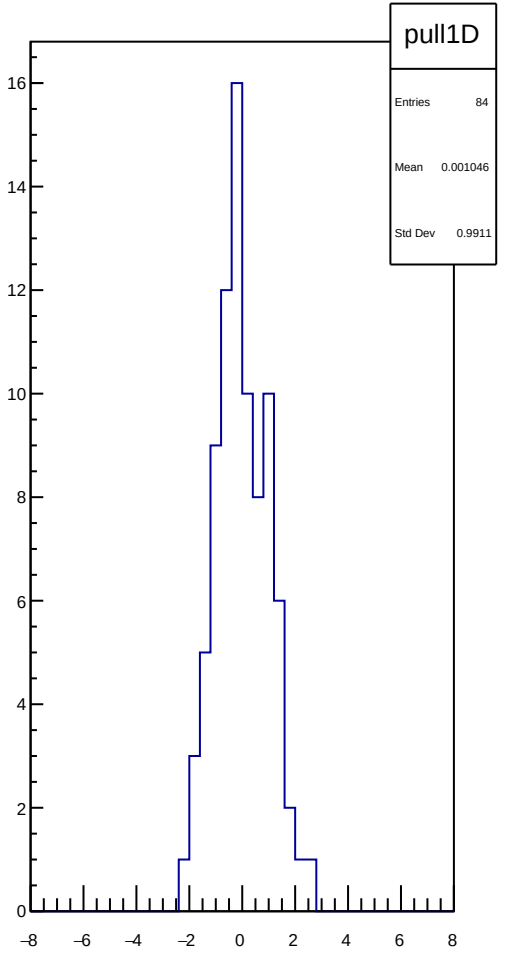

diff_bpm4aX_rms vs run
χ² / ndf 7964 / 83
p0 1.006e+04 ± 7.913
12000
11500
11000
10500
10000
9500
9000
8500

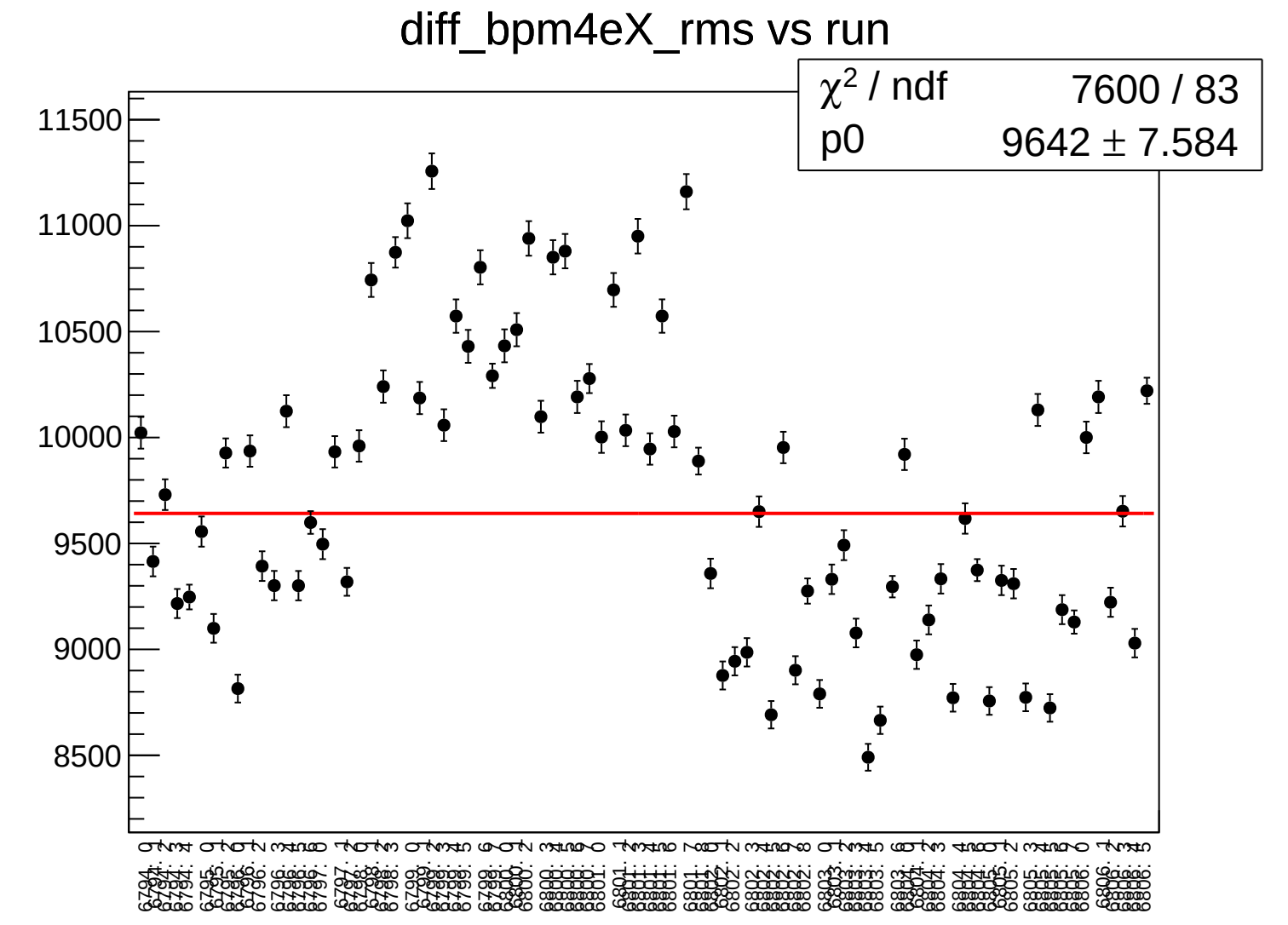

diff_bpm4aY_mean vs run
χ² / ndf 67.27 / 83
p0 19.74 ± 12.41
pull
Entries 84
Mean −493.2
Std Dev 563

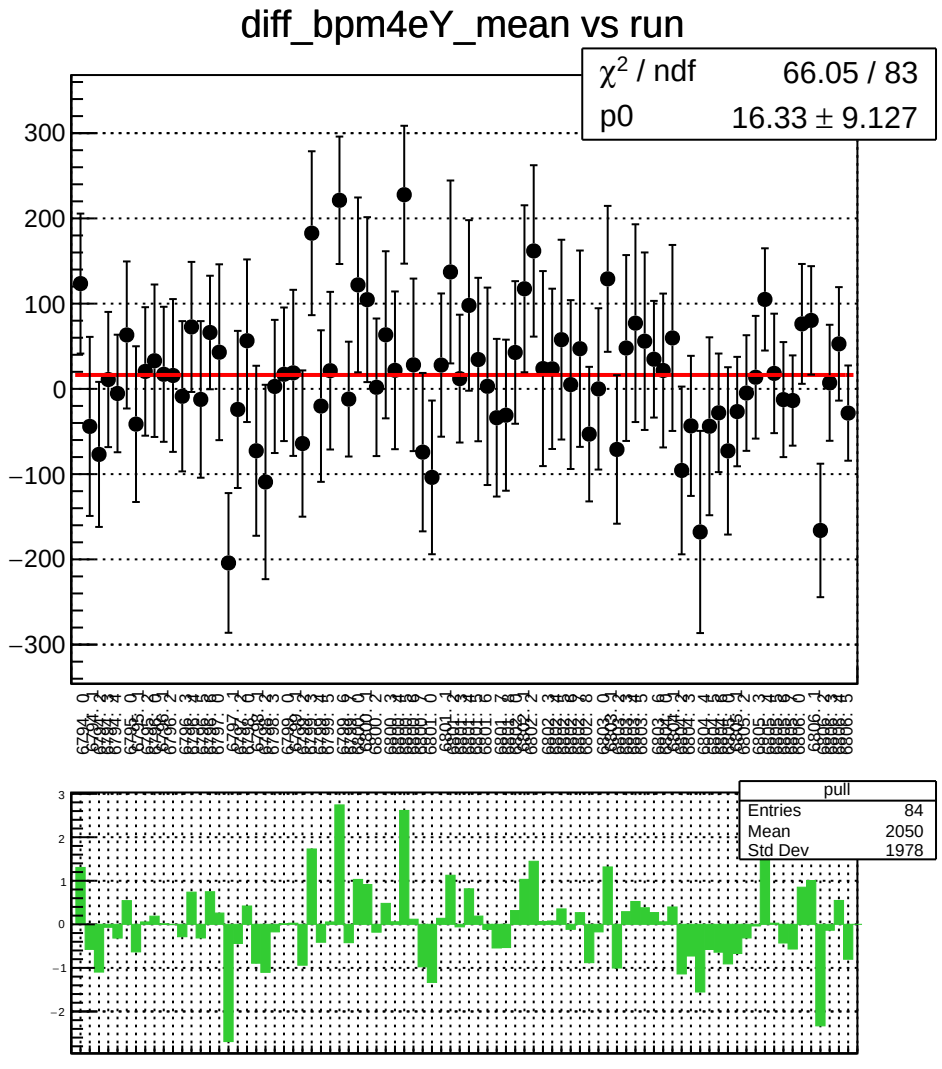

pull1D
Entries 84
Mean 0.002554
Std Dev 0.8949

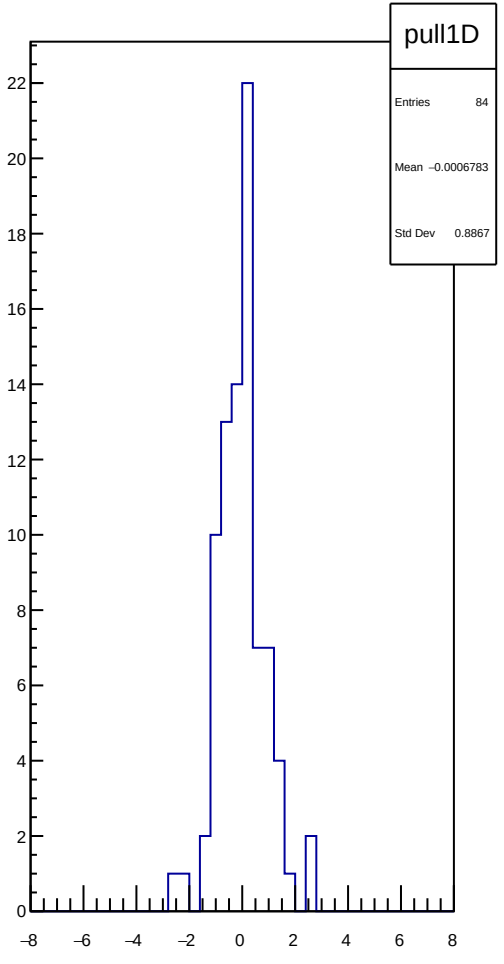

diff_bpm4aY_rms vs run
χ² / ndf 7.259e+04 / 83
p0 1.093e+04 ± 8.775
16000
14000
12000
10000
8000
6000

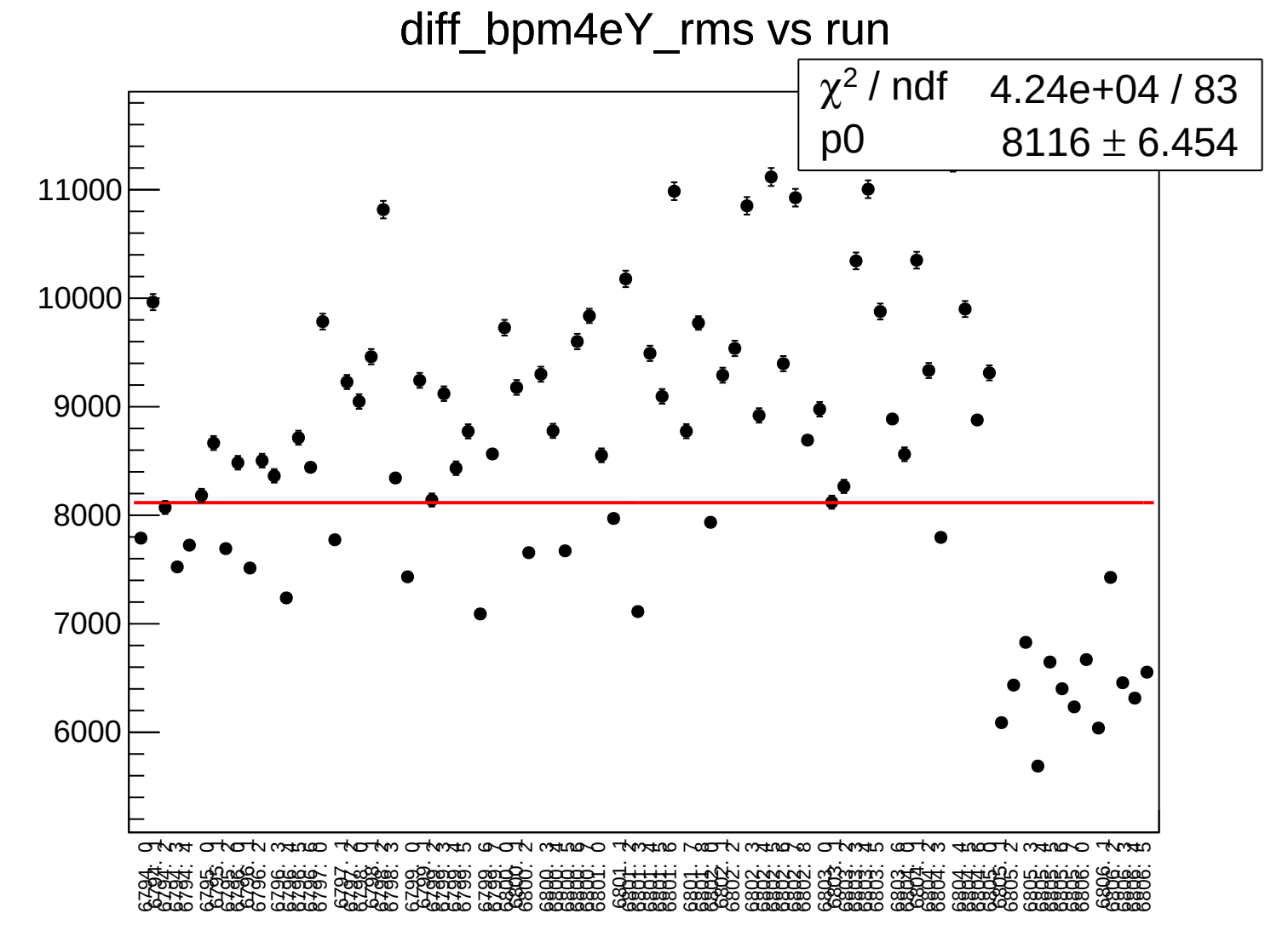

diff_bpm4eX_mean vs run
χ² / ndf 82.51 / 83
p0 0.4606 ± 10.73
pull
Entries 84
Mean −857.9
Std Dev 868.7

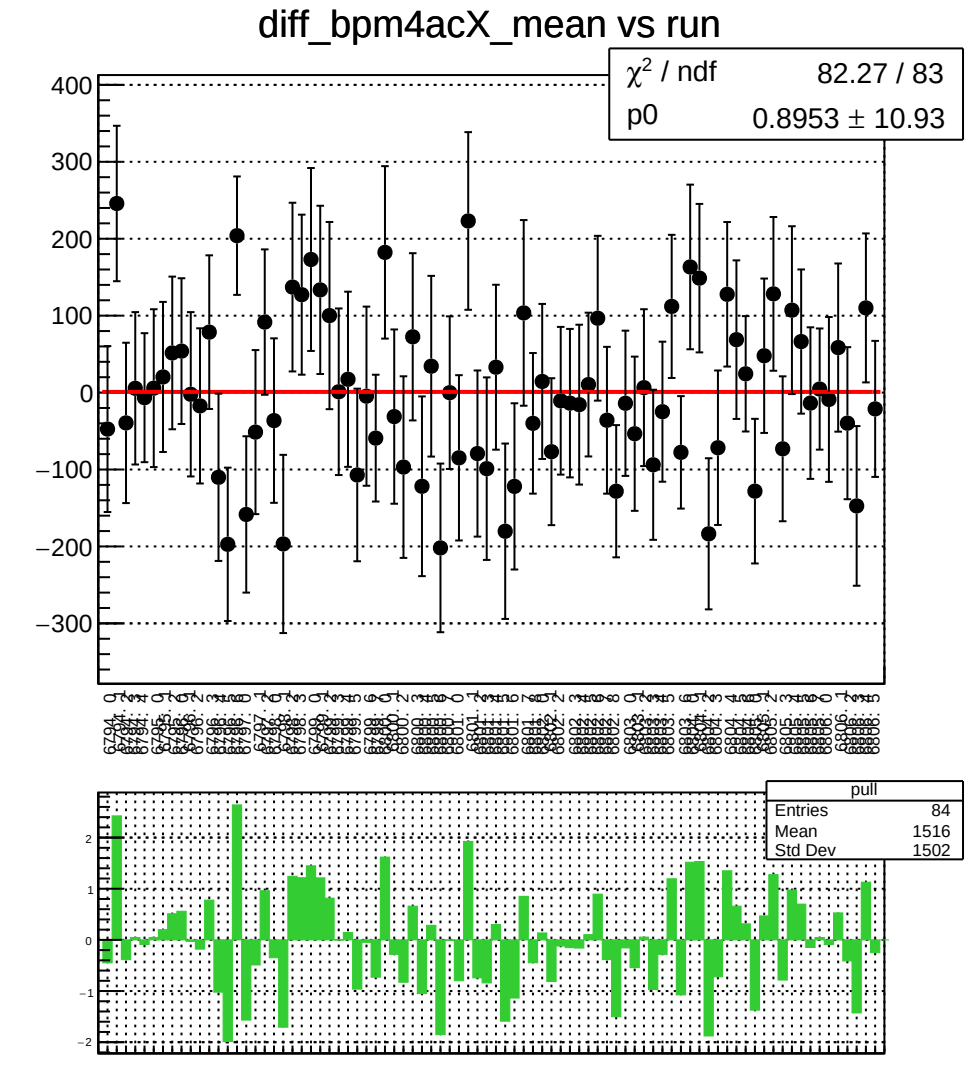

pull1D
Entries 84
Mean 0.001046
Std Dev 0.9911

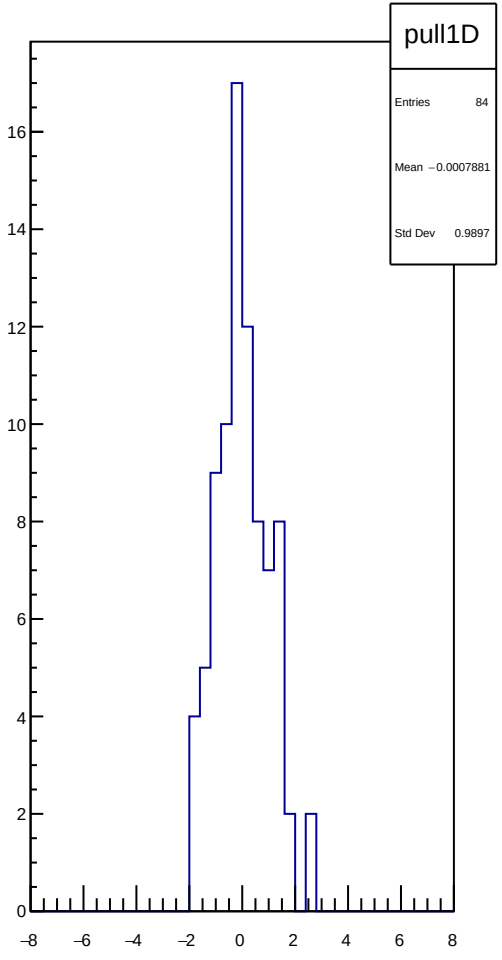

diff_bpm4eX_rms vs run
χ² / ndf 7600 / 83
p0 9642 ± 7.584
11500
11000
10500
10000
9500
9000
8500

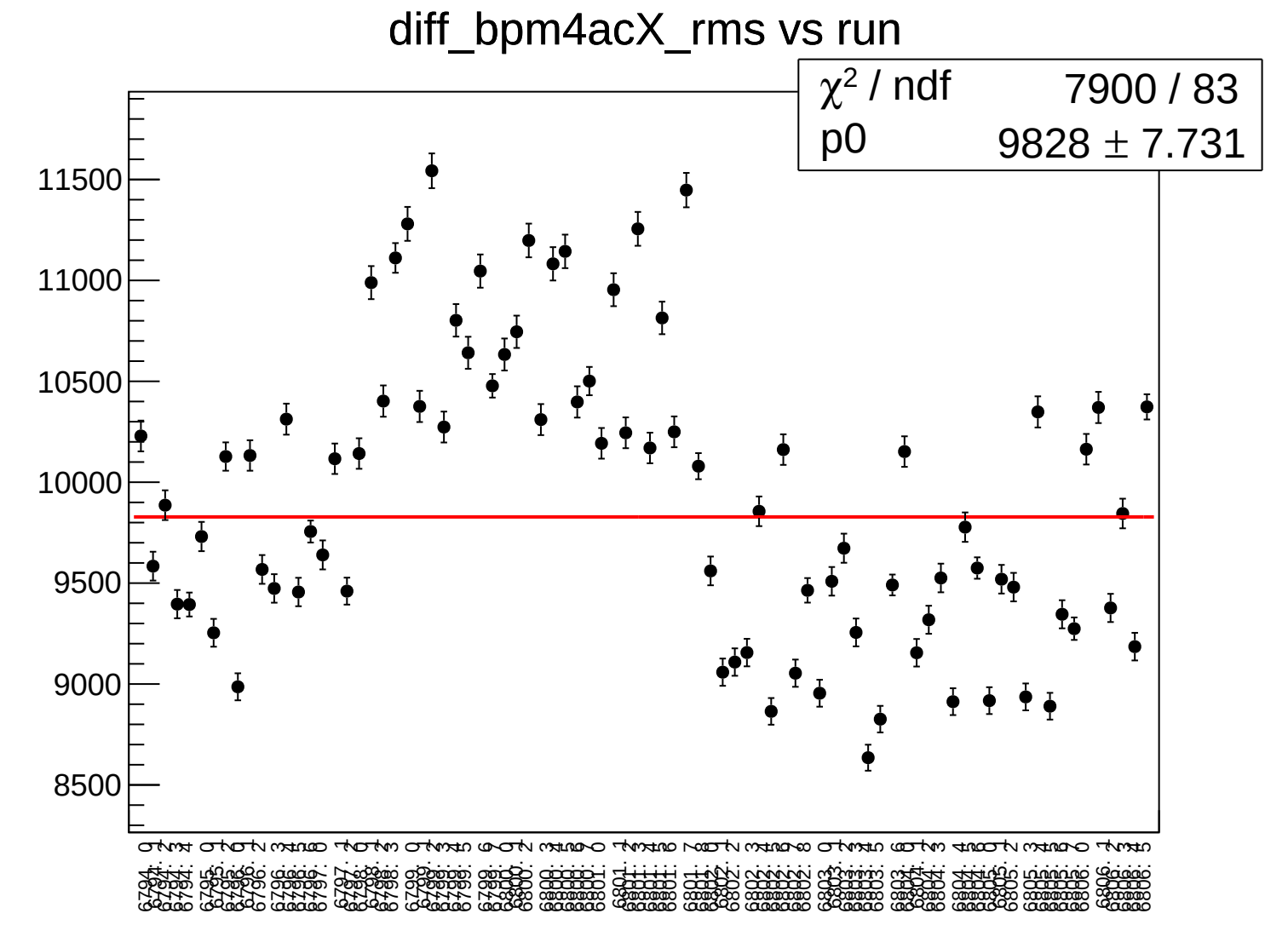

diff_bpm4eY_mean vs run
χ² / ndf 66.05 / 83
p0 16.33 ± 9.127
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean 2050
Std Dev 1978
3
2
1
0
−1
−2

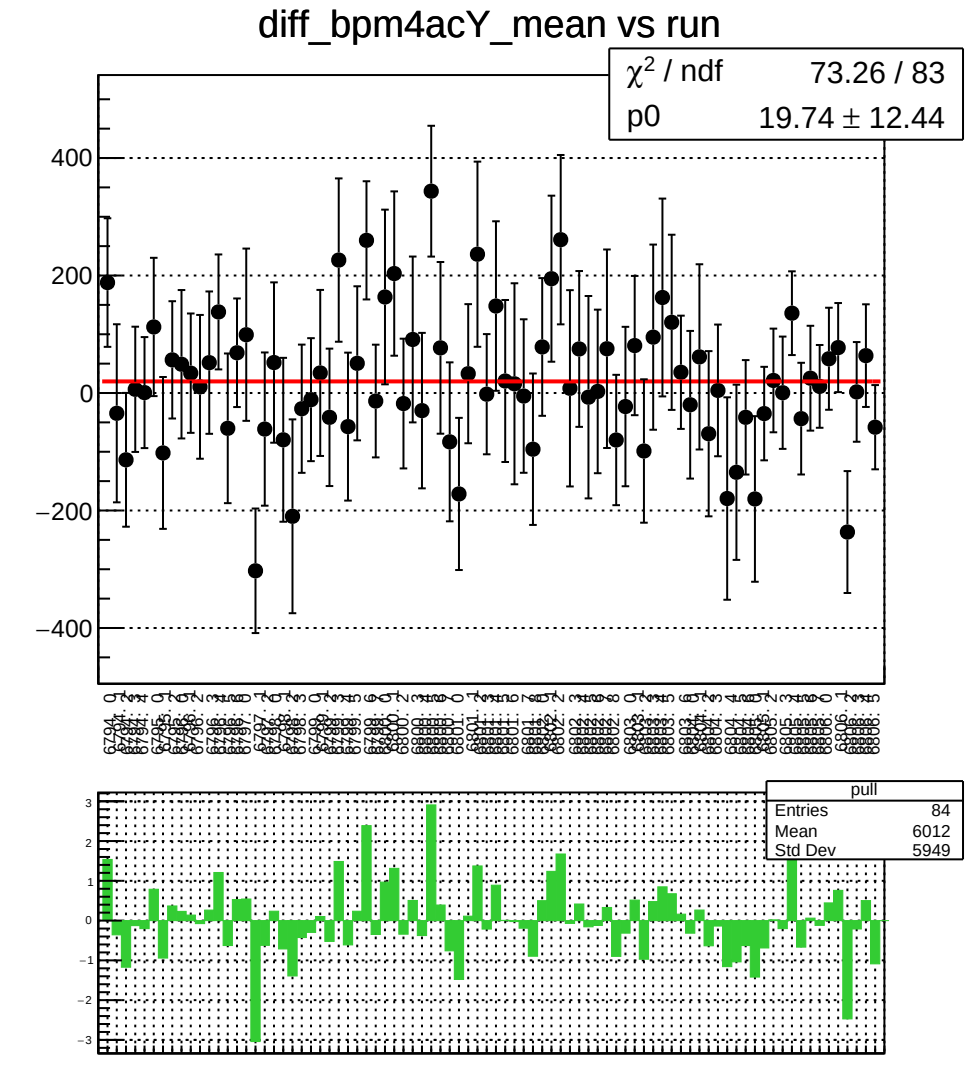

pull1D
Entries 84
Mean −0.0006783
Std Dev 0.8867
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

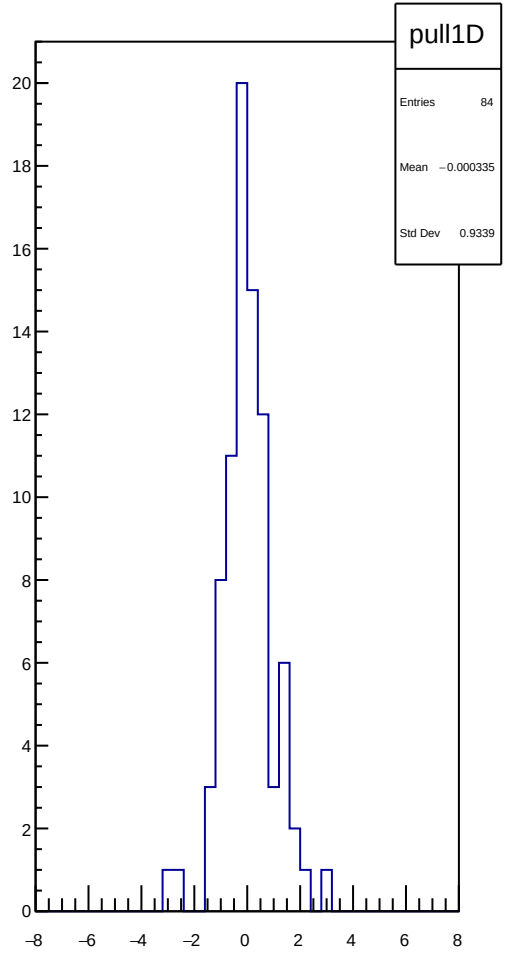

diff_bpm4eY_rms vs run
χ² / ndf 4.24e+04 / 83
p0 8116 ± 6.454
11000
10000
9000
8000
7000
6000

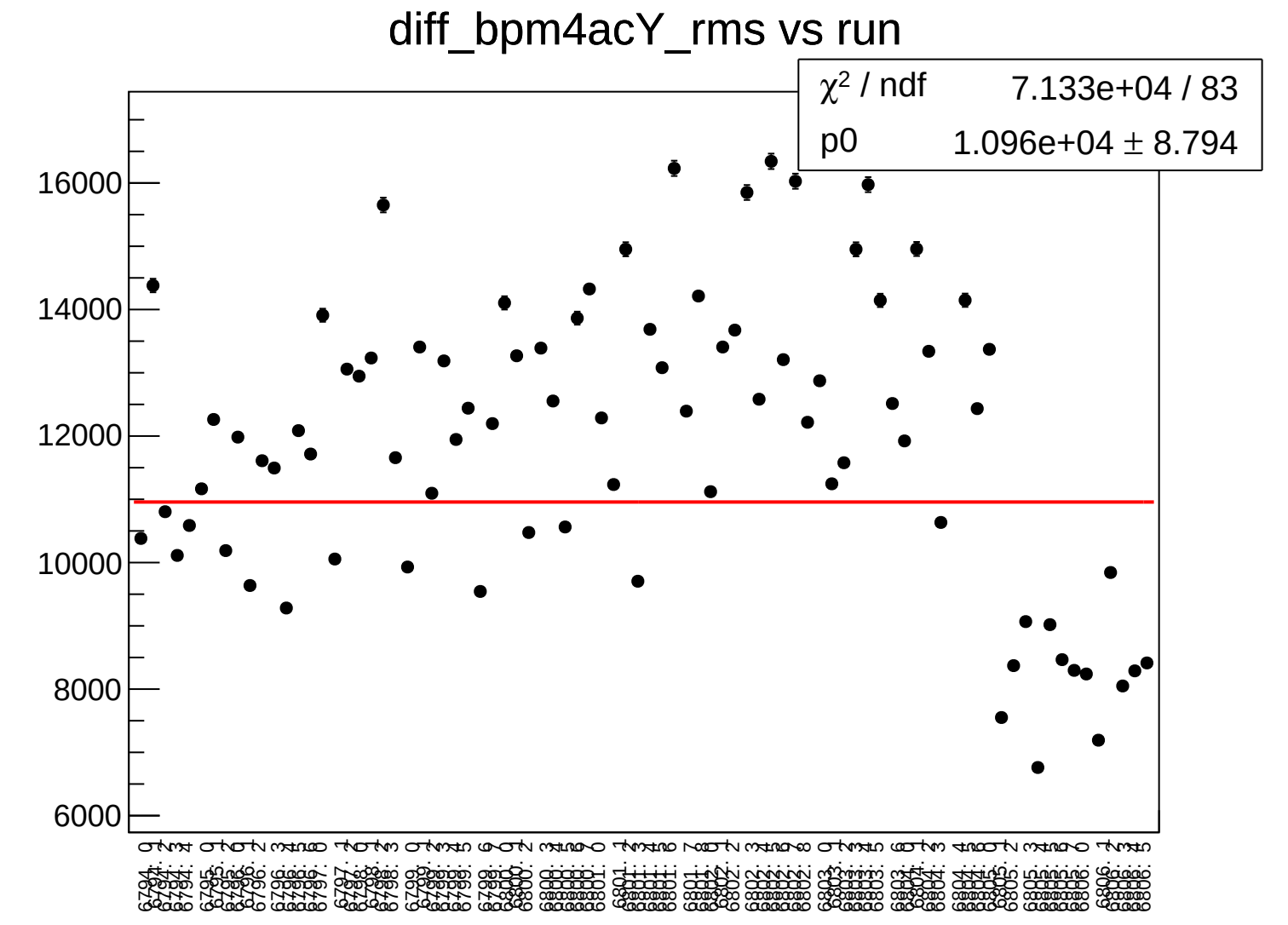

diff_bpm4acX_mean vs run
χ² / ndf 82.27 / 83
p0 0.8953 ± 10.93
pull
Entries 84
Mean 1516
Std Dev 1502

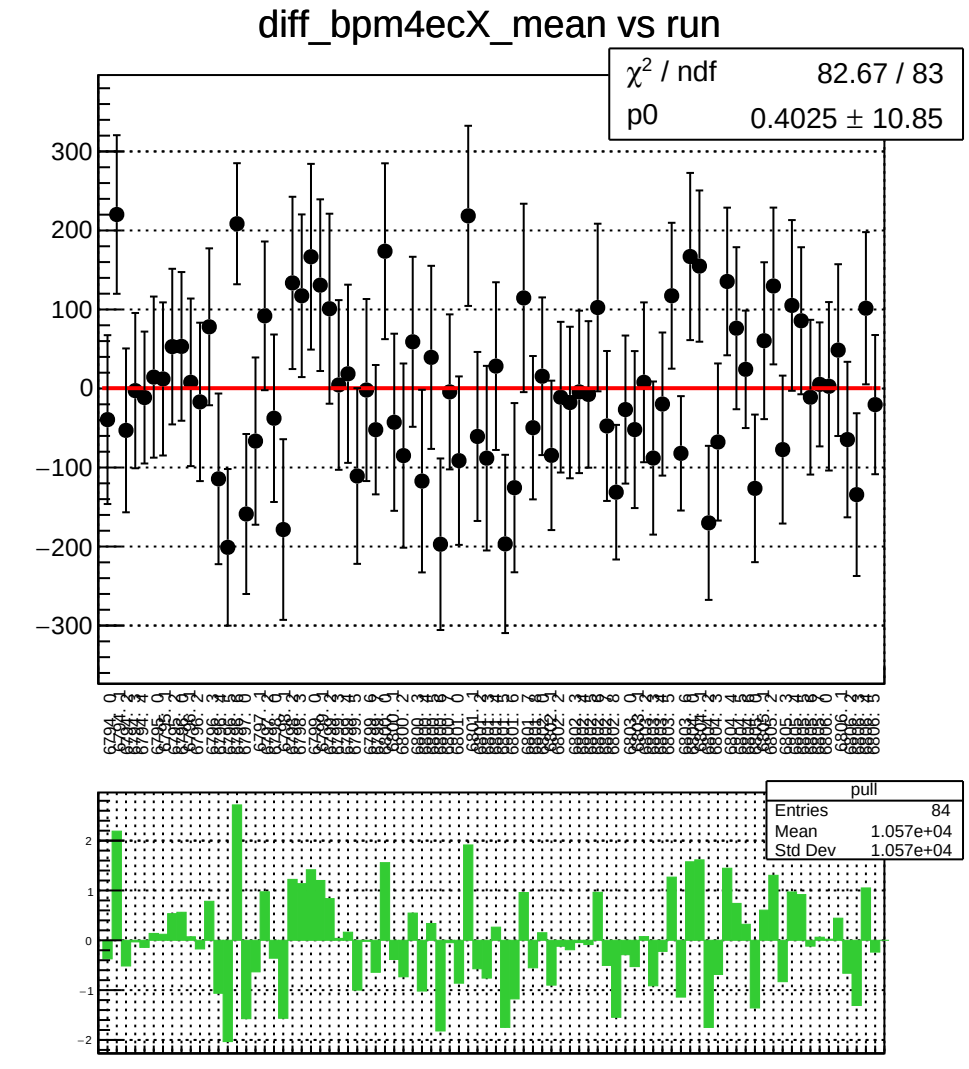

pull1D
Entries 84
Mean −0.0007881
Std Dev 0.9897

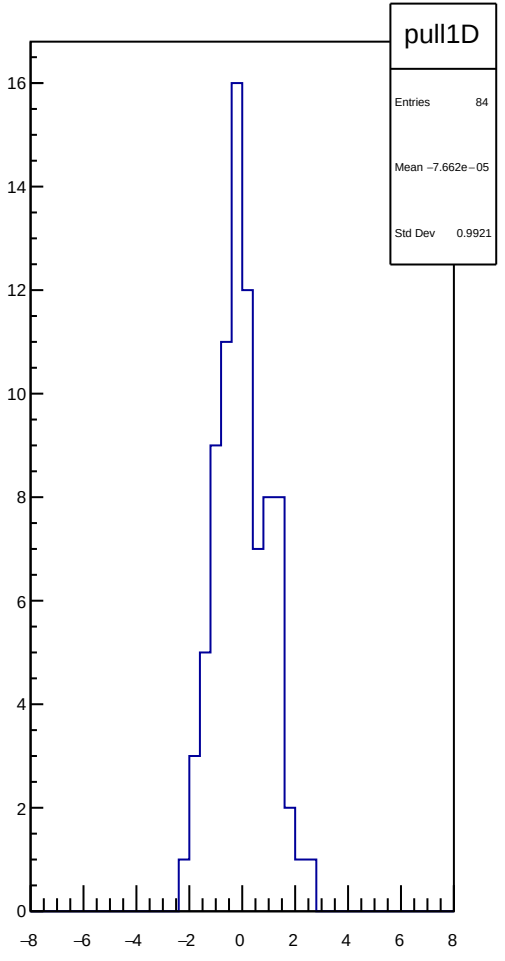

diff_bpm4acX_rms vs run
χ² / ndf 7900 / 83
p0 9828 ± 7.731
11500
11000
10500
10000
9500
9000
8500

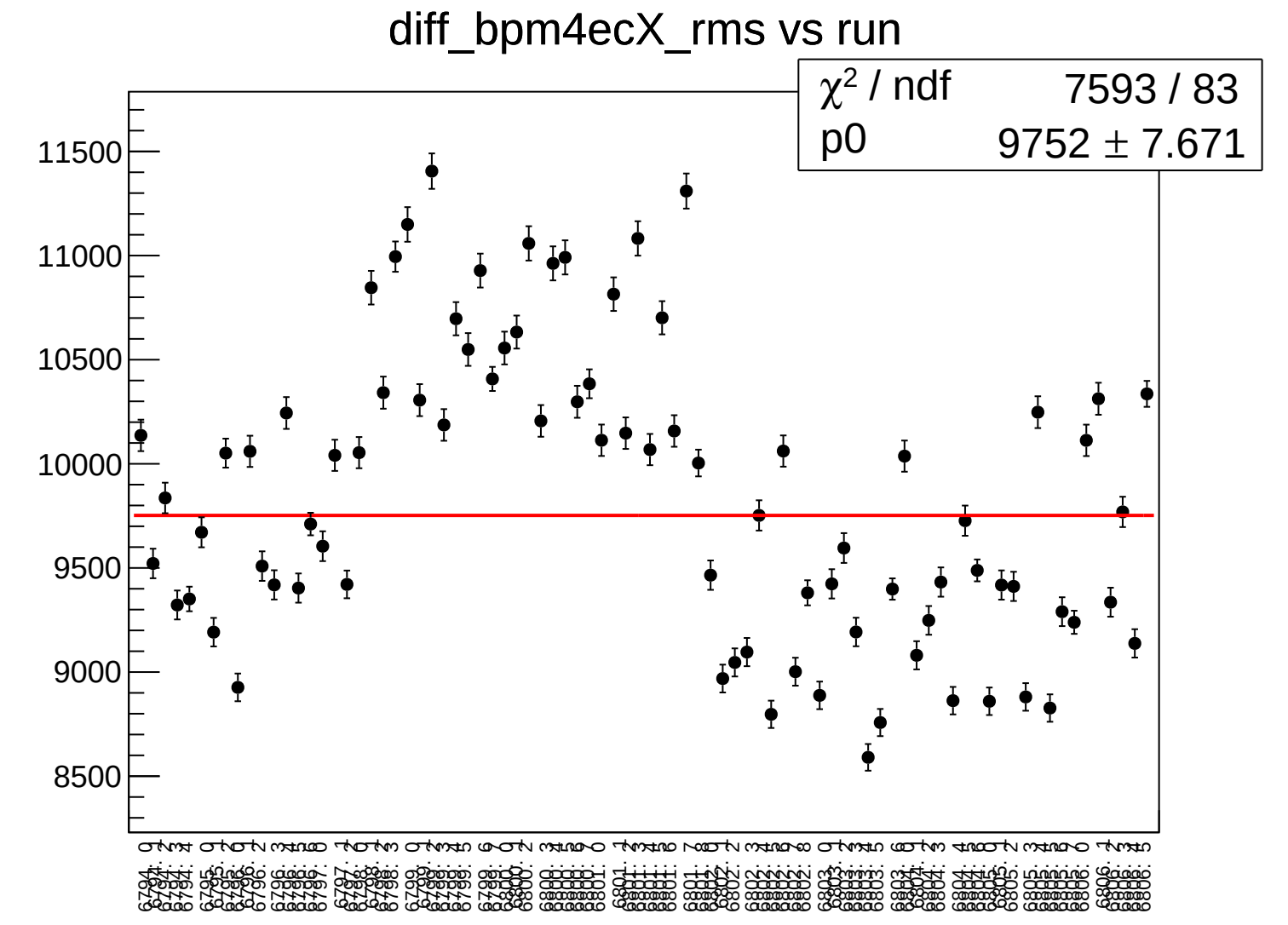

diff_bpm4acY_mean vs run
χ² / ndf 73.26 / 83
p0 19.74 ± 12.44
400
200
0
−200
−400
pull
Entries 84
Mean 6012
Std Dev 5949
3
2
1
0
−1
−2
−3

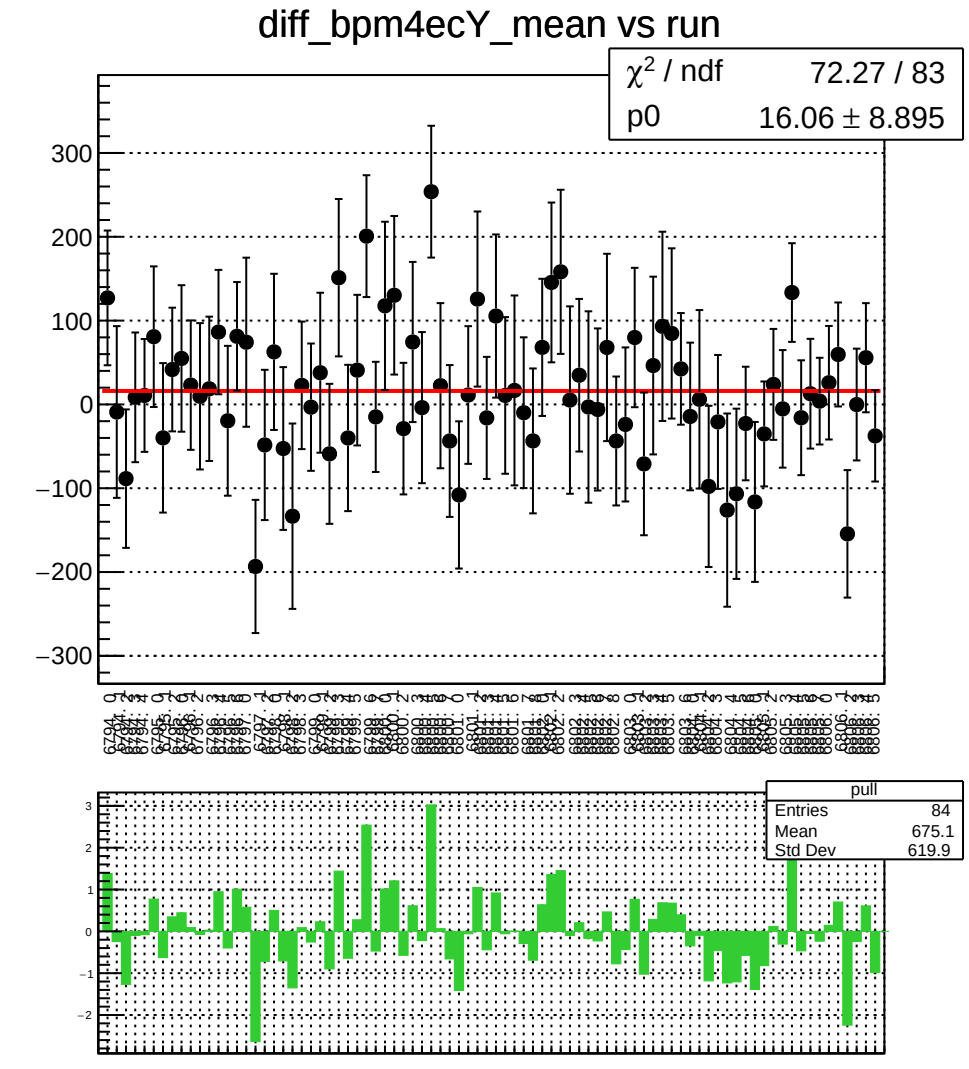

pull1D
Entries 84
Mean −0.000335
Std Dev 0.9339
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

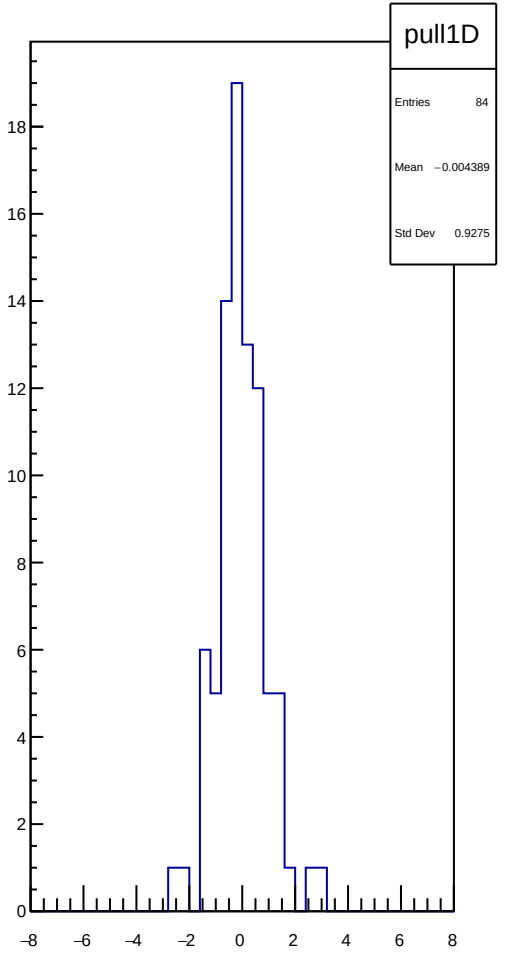

diff_bpm4acY_rms vs run
χ² / ndf 7.133e+04 / 83
p0 1.096e+04 ± 8.794
16000
14000
12000
10000
8000
6000

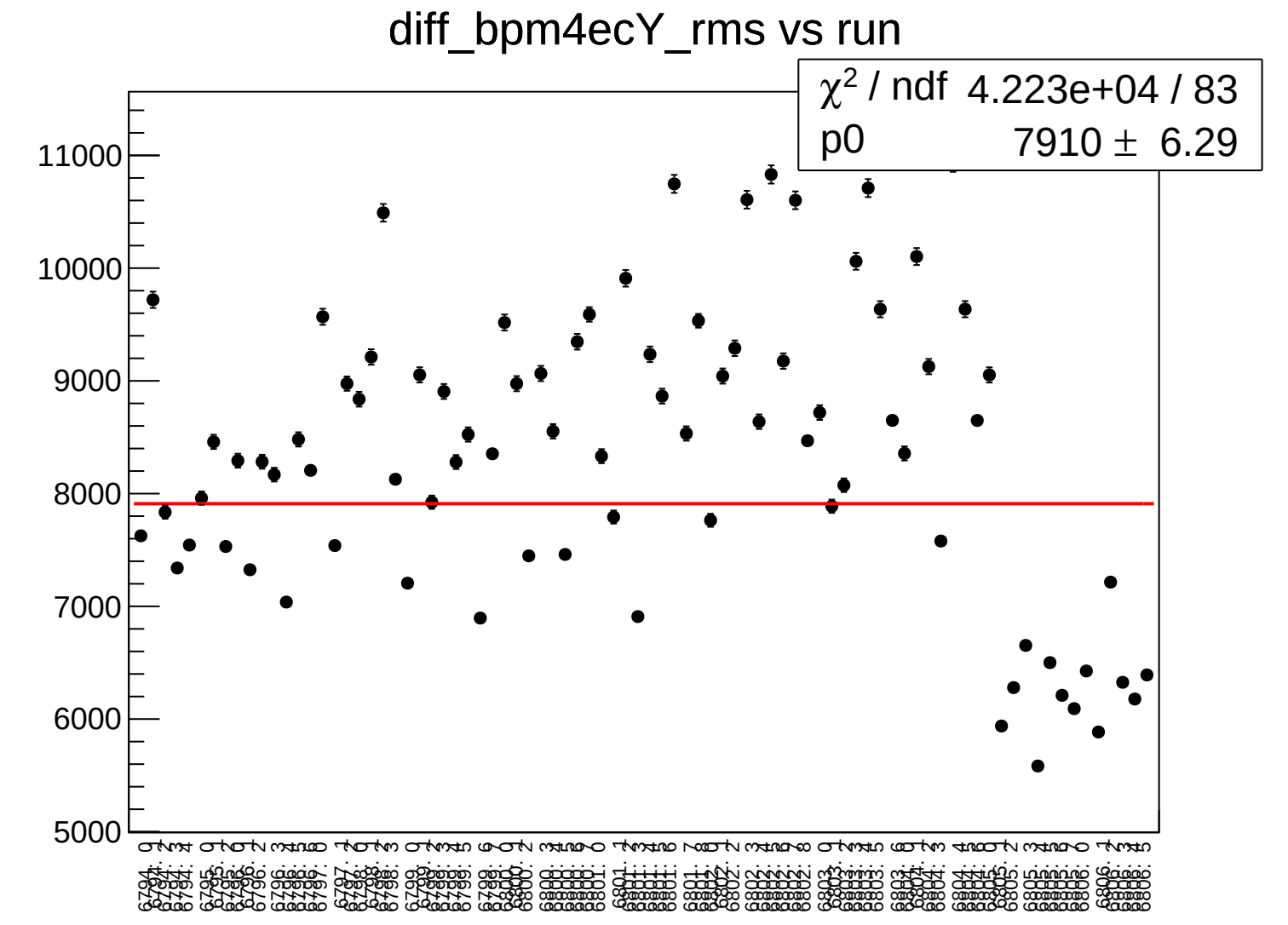

diff_bpm4ecX_mean vs run
χ² / ndf 82.67 / 83
p0 0.4025 ± 10.85
pull
Entries 84
Mean 1.057e+04
Std Dev 1.057e+04

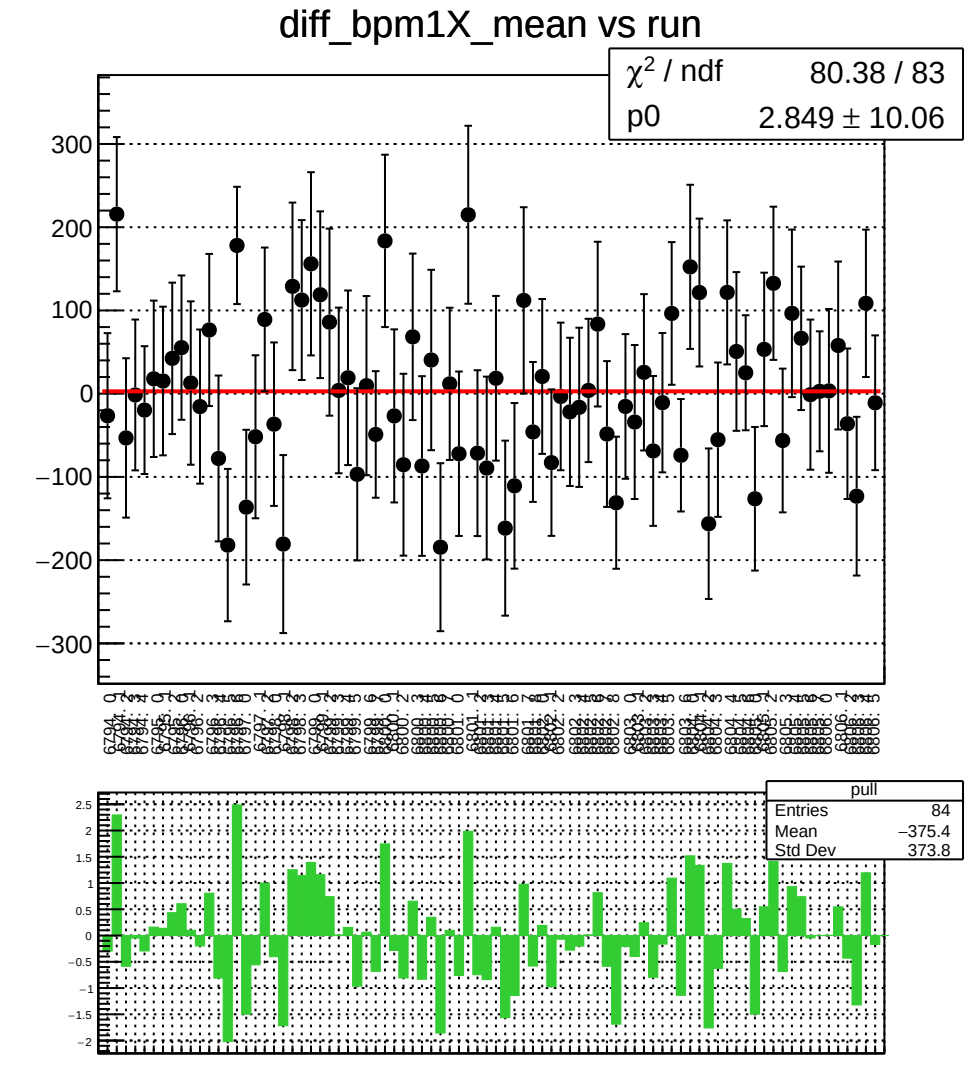

pull1D
Entries 84
Mean −7.662e−05
Std Dev 0.9921

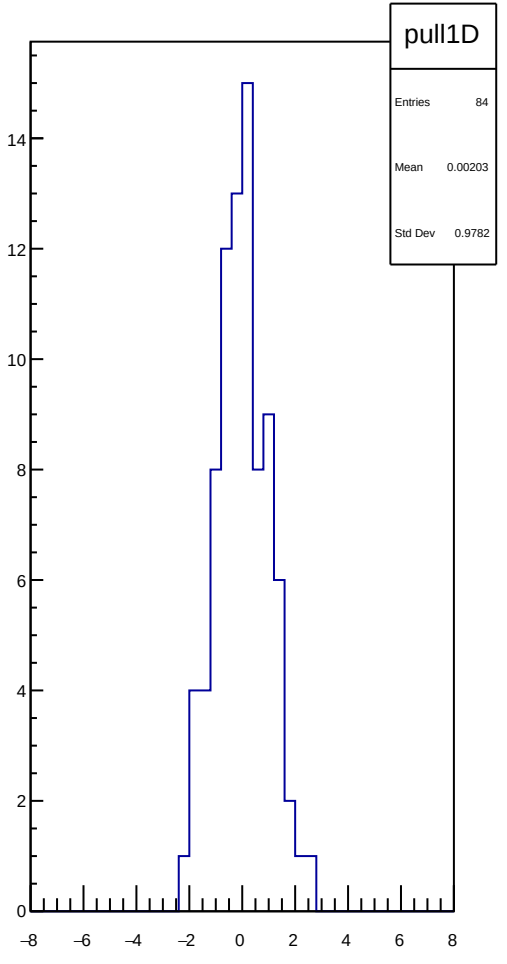

diff_bpm4ecX_rms vs run
χ² / ndf 7593 / 83
p0 9752 ± 7.671
11500
11000
10500
10000
9500
9000
8500

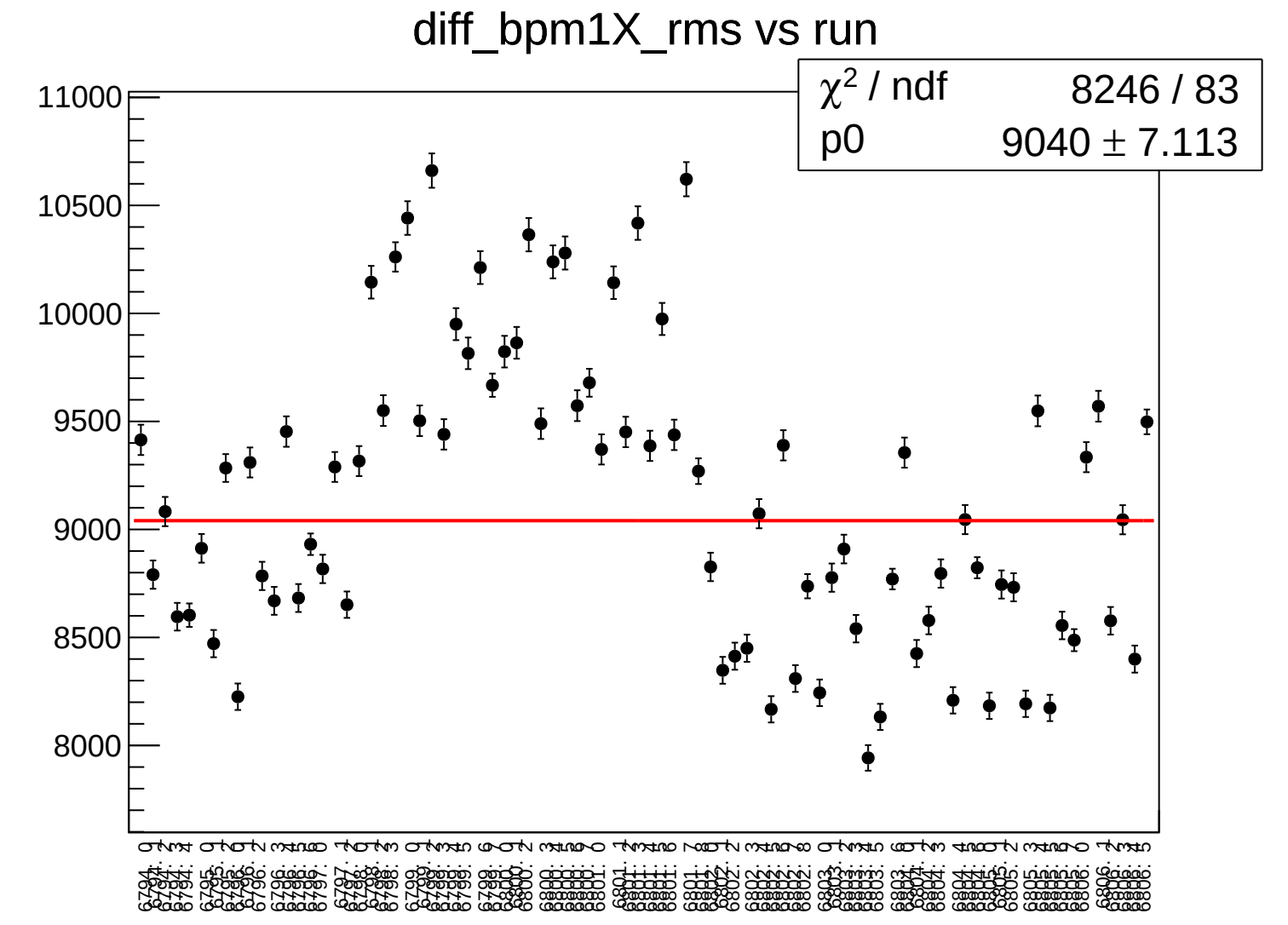

diff_bpm4ecY_mean vs run
χ² / ndf 72.27 / 83
p0 16.06 ± 8.895
pull
Entries 84
Mean 675.1
Std Dev 619.9

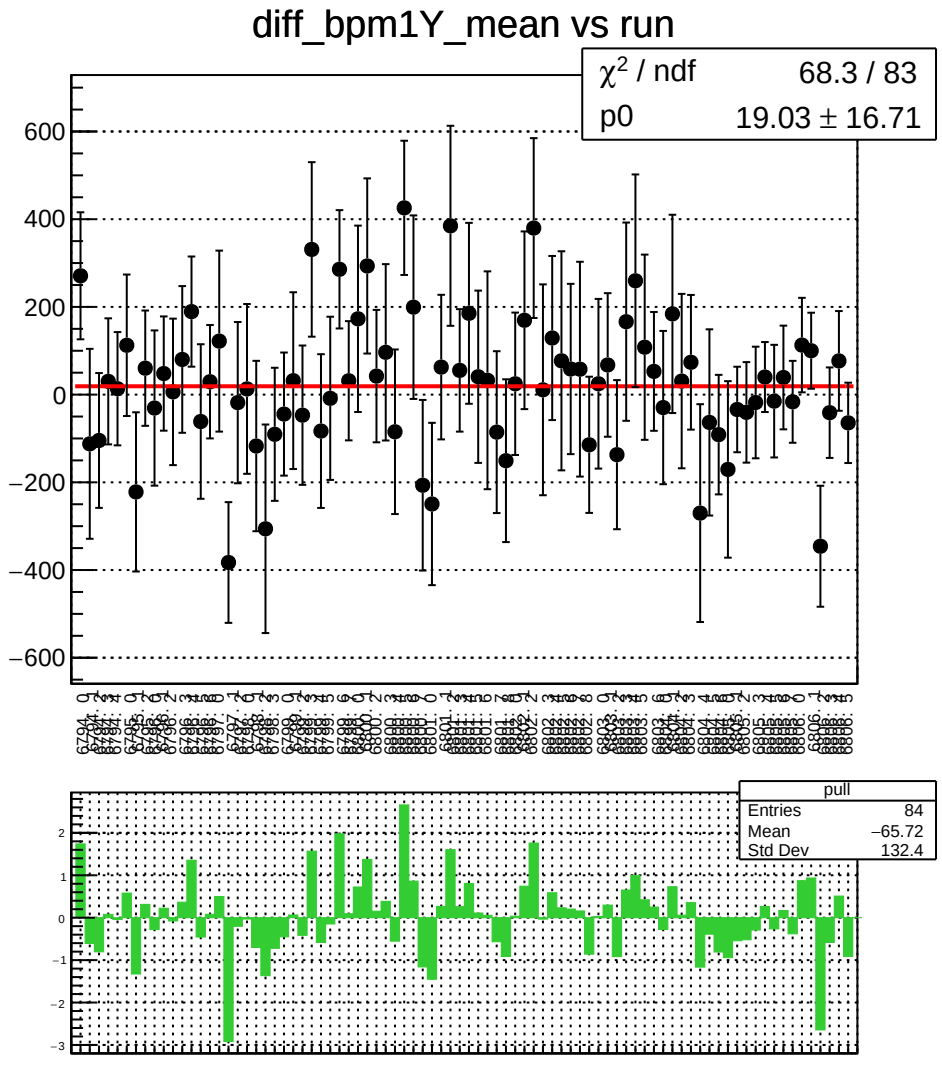

pull1D
Entries 84
Mean −0.004389
Std Dev 0.9275

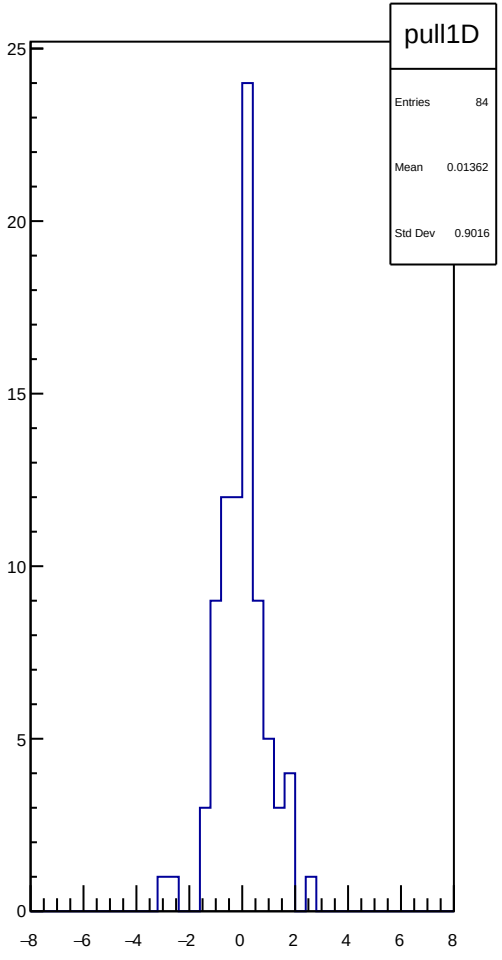

diff_bpm4ecY_rms vs run
χ² / ndf 4.223e+04 / 83
p0 7910 ± 6.29
11000
10000
9000
8000
7000
6000
5000

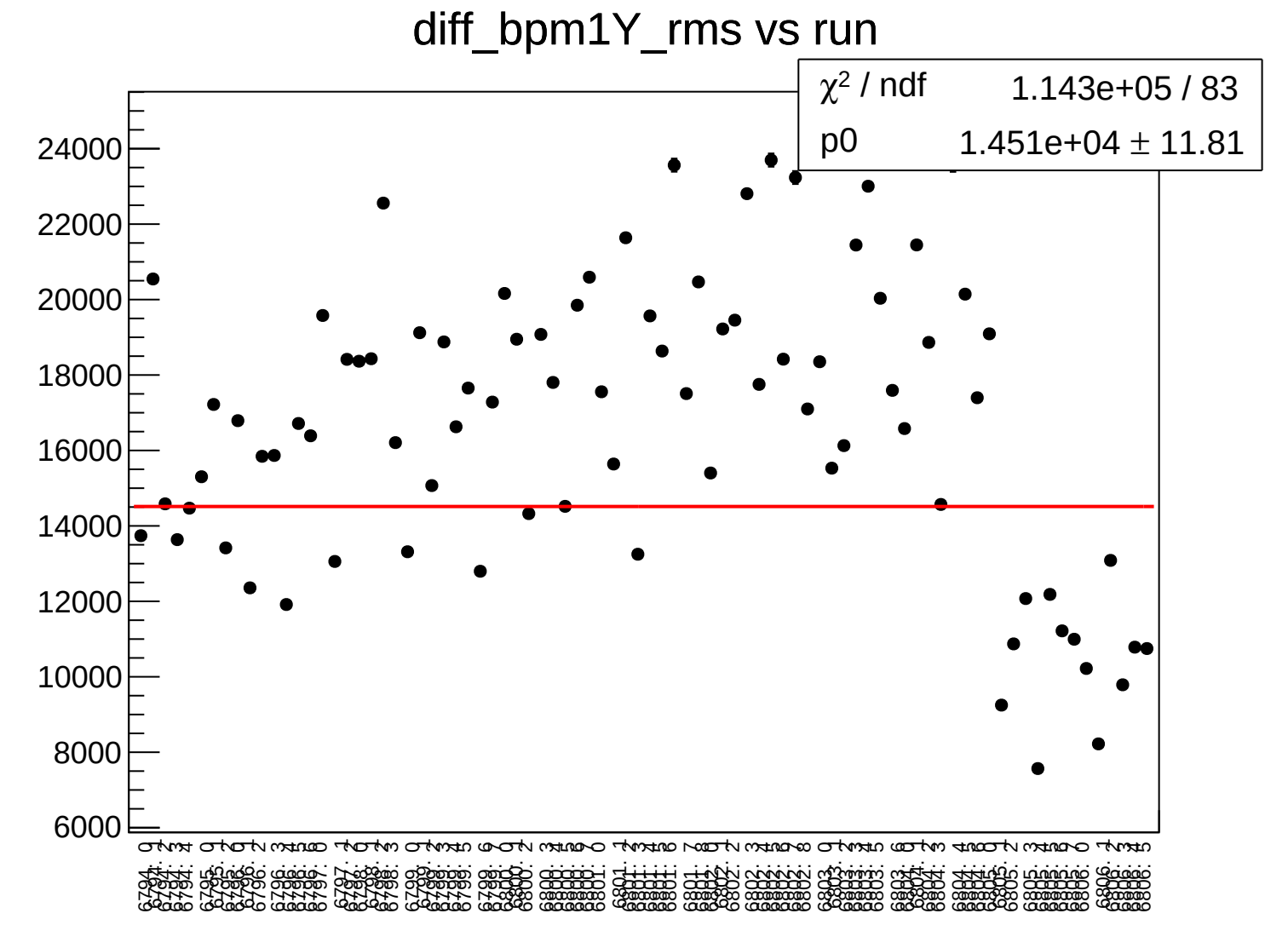

diff_bpm1X_mean vs run
χ² / ndf 80.38 / 83
p0 2.849 ± 10.06
pull
Entries 84
Mean −375.4
Std Dev 373.8

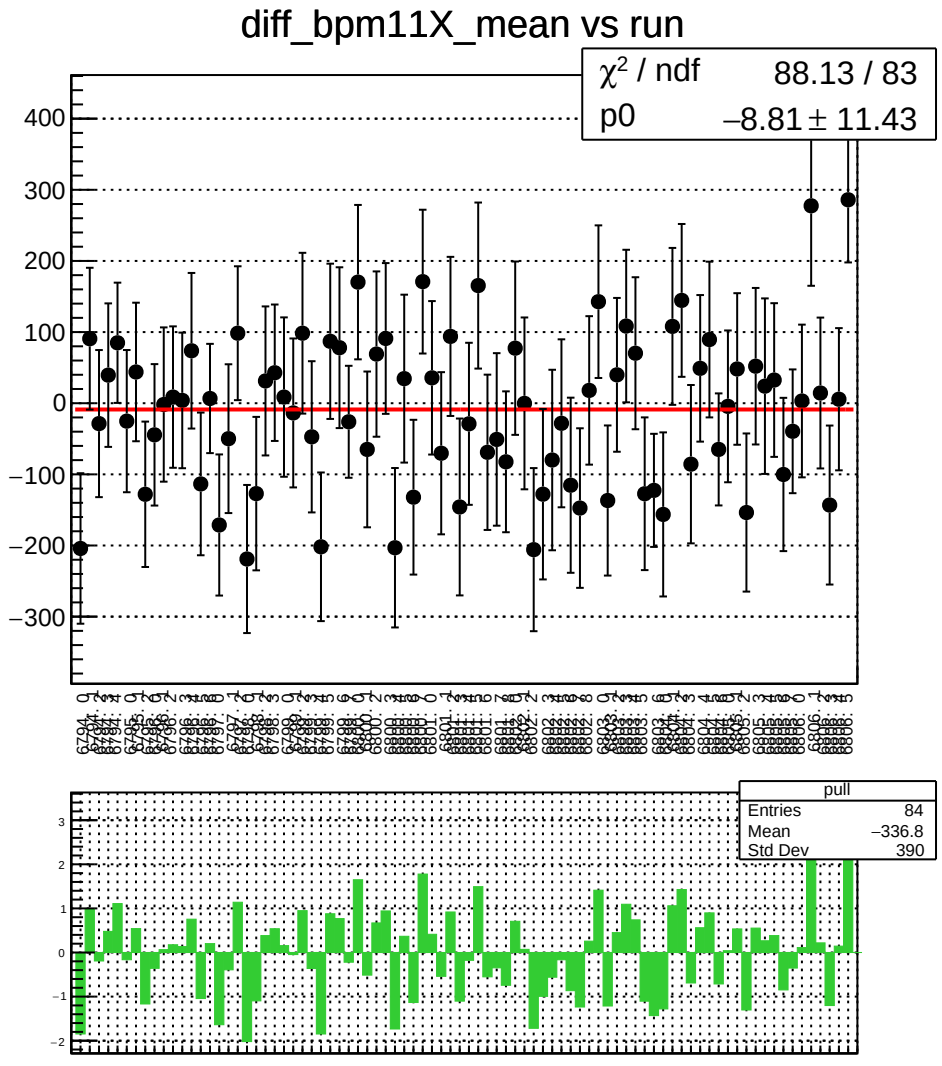

pull1D
Entries 84
Mean 0.00203
Std Dev 0.9782

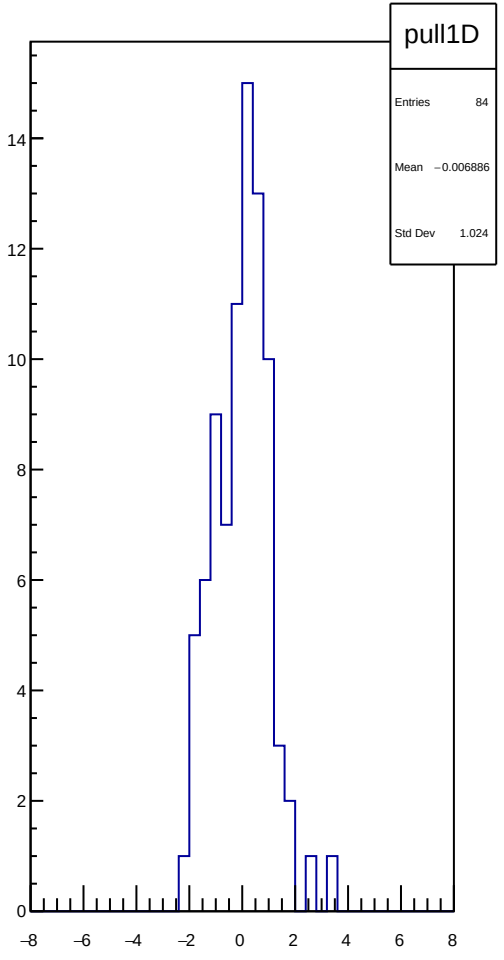

diff_bpm1X_rms vs run
χ² / ndf 8246 / 83
p0 9040 ± 7.113
11000
10500
10000
9500
9000
8500
8000

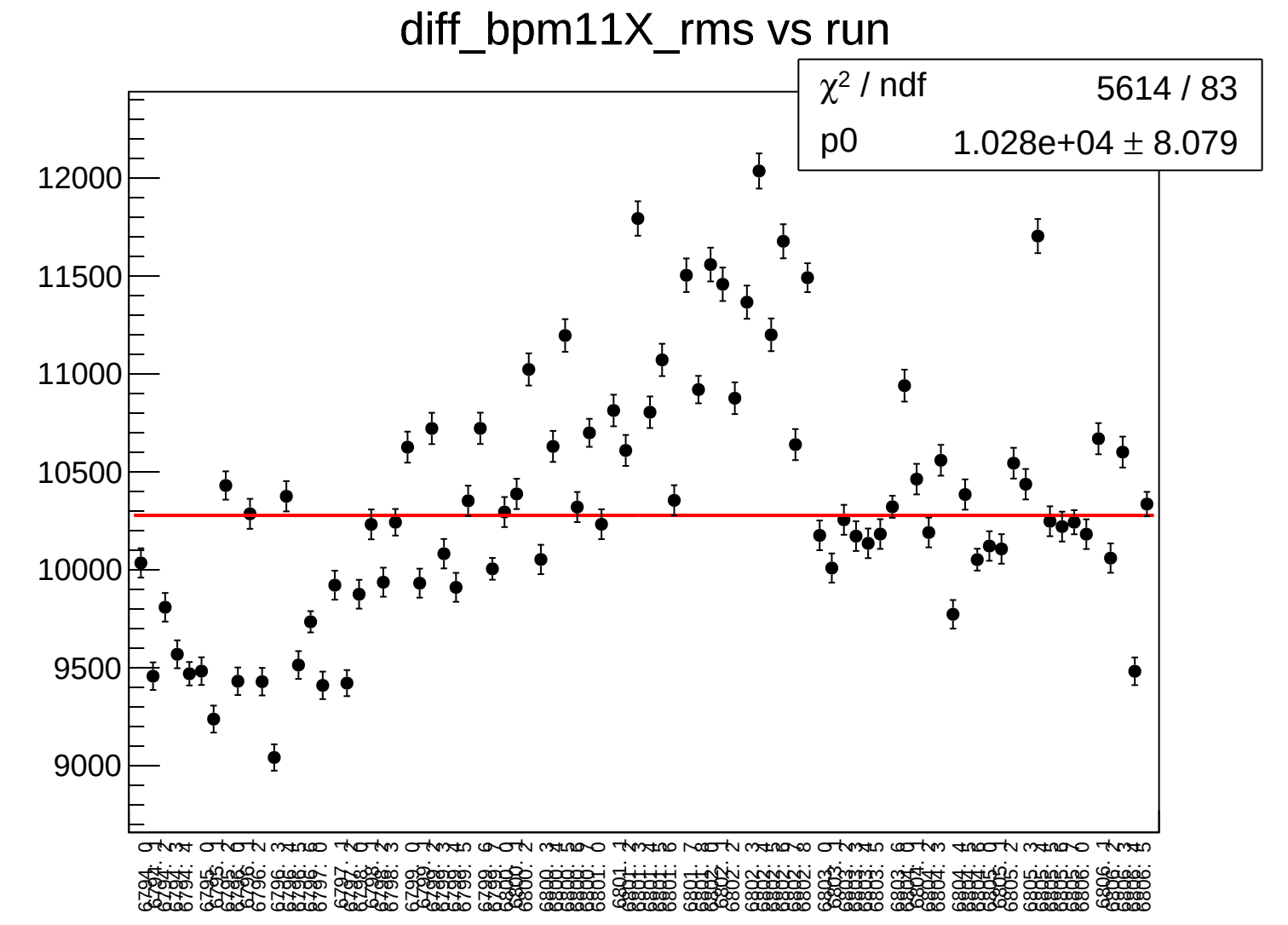

diff_bpm1Y_mean vs run
χ^2 / ndf 68.3 / 83
p0 19.03 ± 16.71
pull
Entries 84
Mean −65.72
Std Dev 132.4

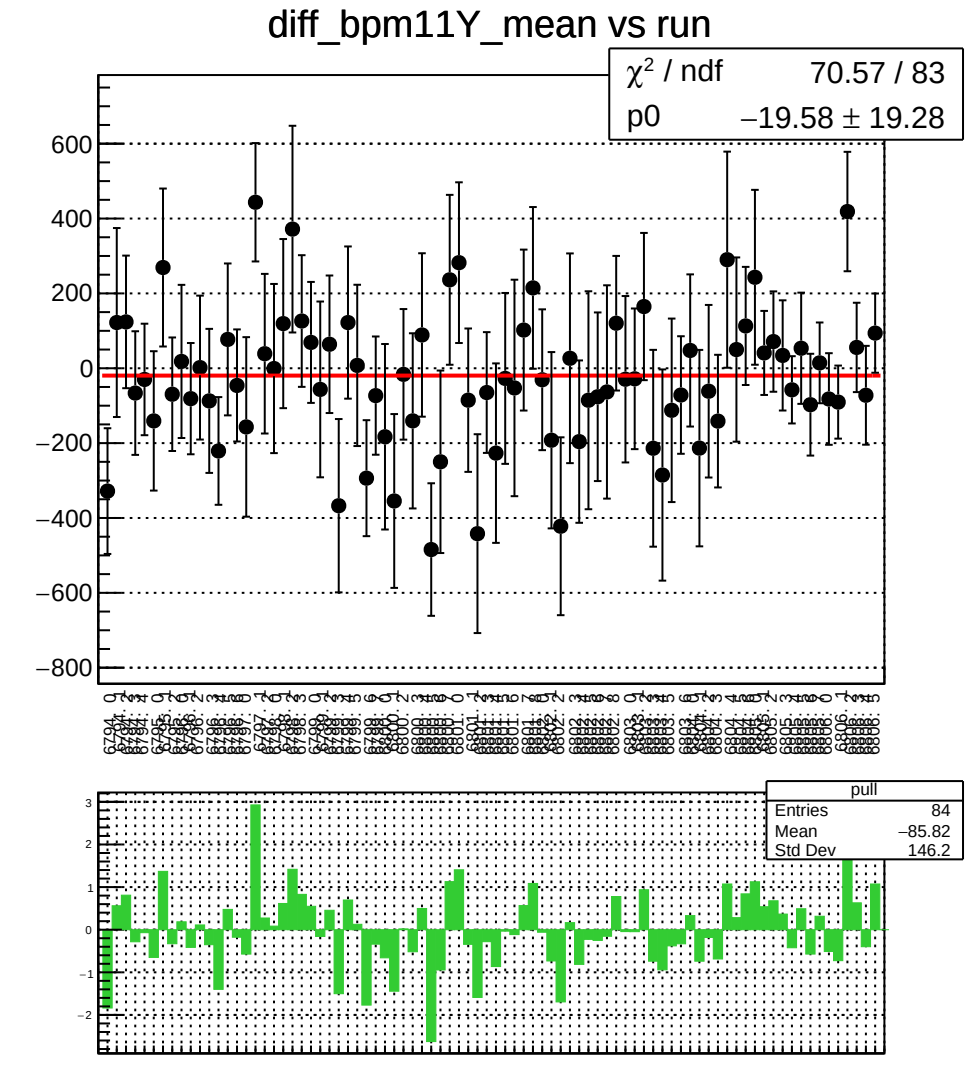

pull1D
Entries 84
Mean 0.01362
Std Dev 0.9016

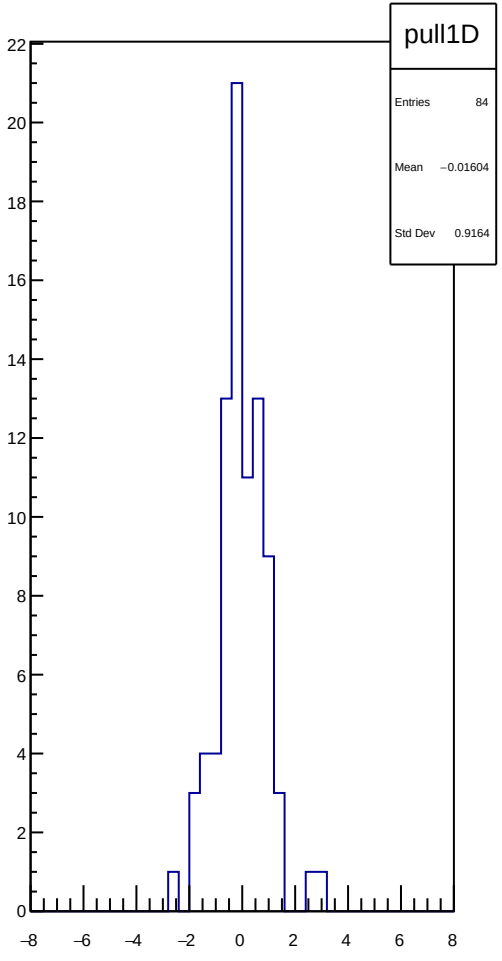

diff_bpm1Y_rms vs run
χ² / ndf 1.143e+05 / 83
p0 1.451e+04 ± 11.81
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000

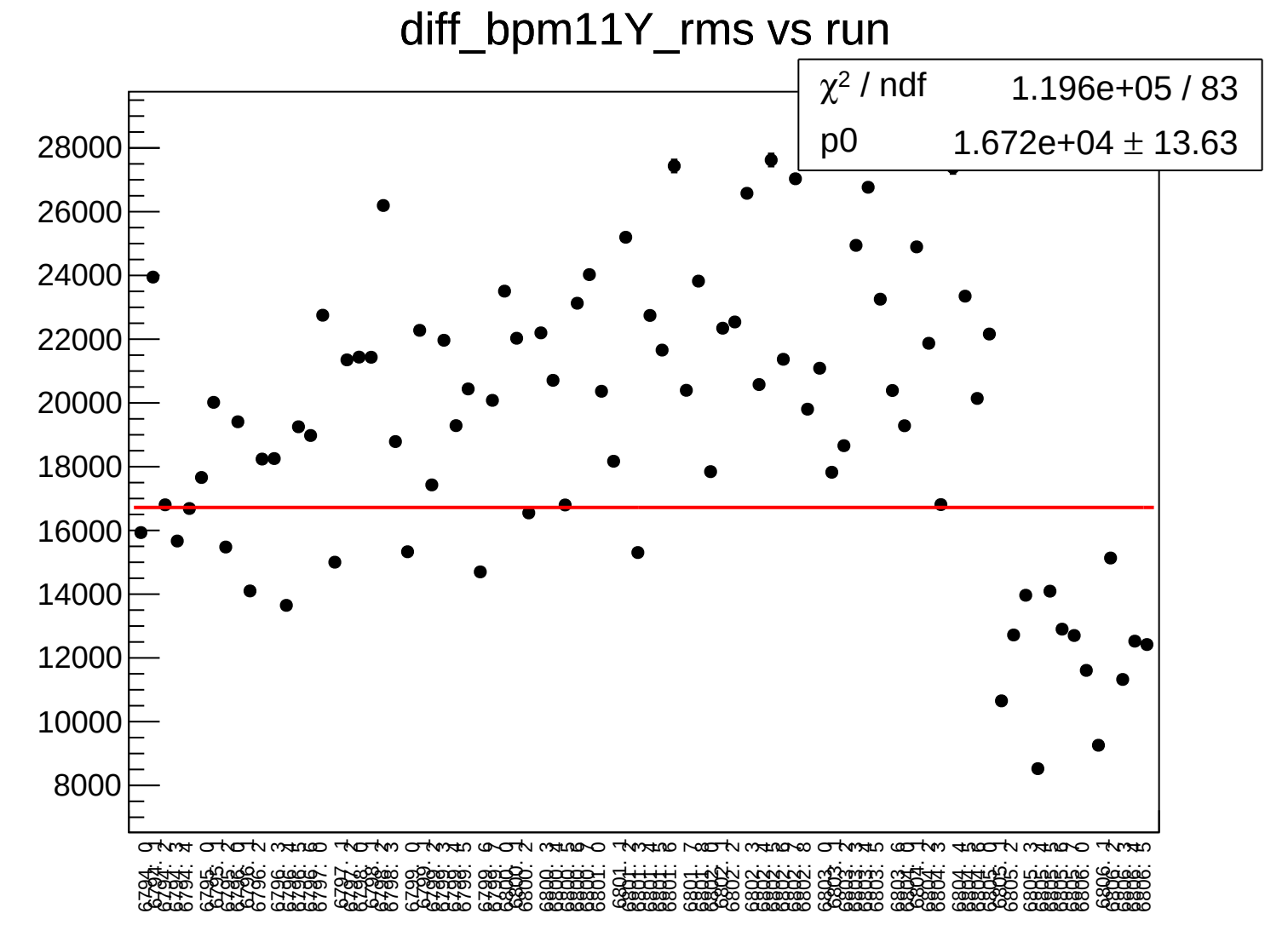

diff_bpm11X_mean vs run
χ² / ndf 88.13 / 83
p0 −8.81 ± 11.43
pull
Entries 84
Mean −336.8
Std Dev 390

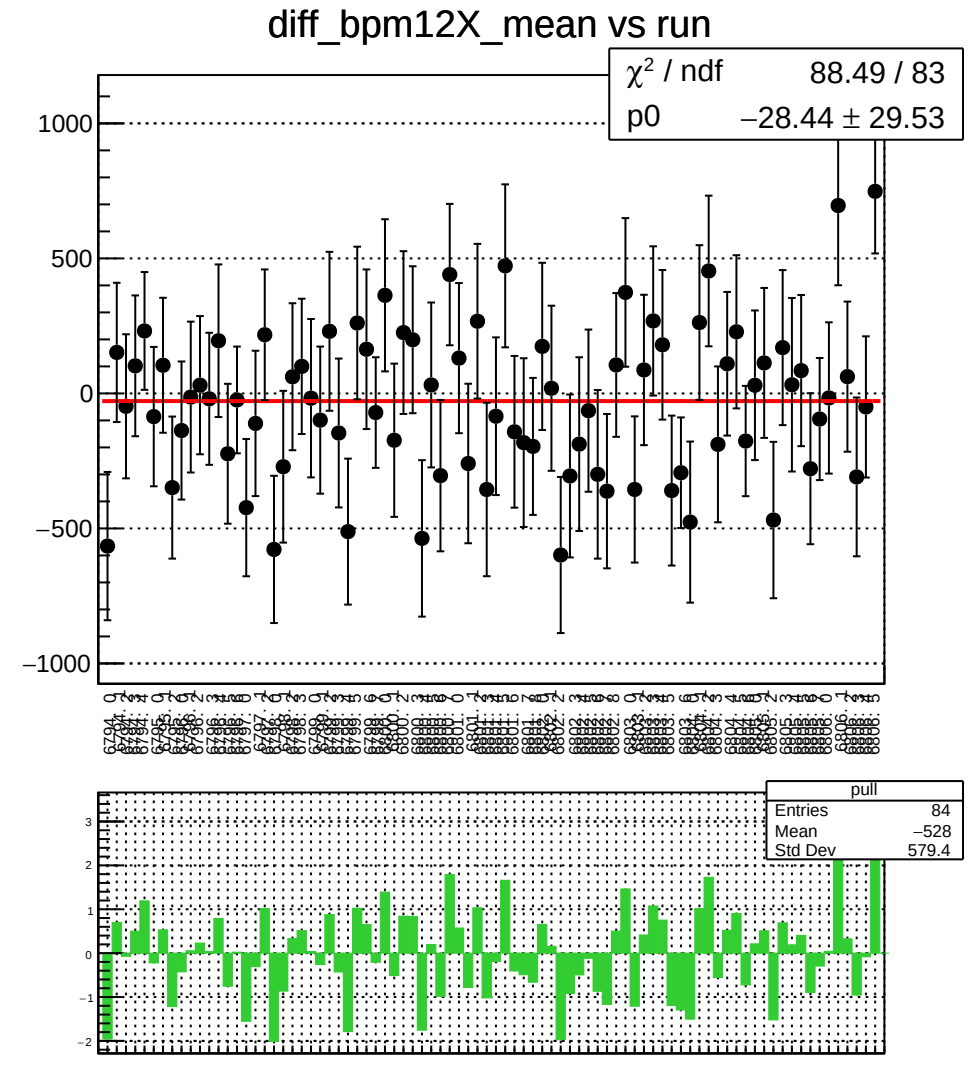

pull1D
Entries 84
Mean −0.006886
Std Dev 1.024

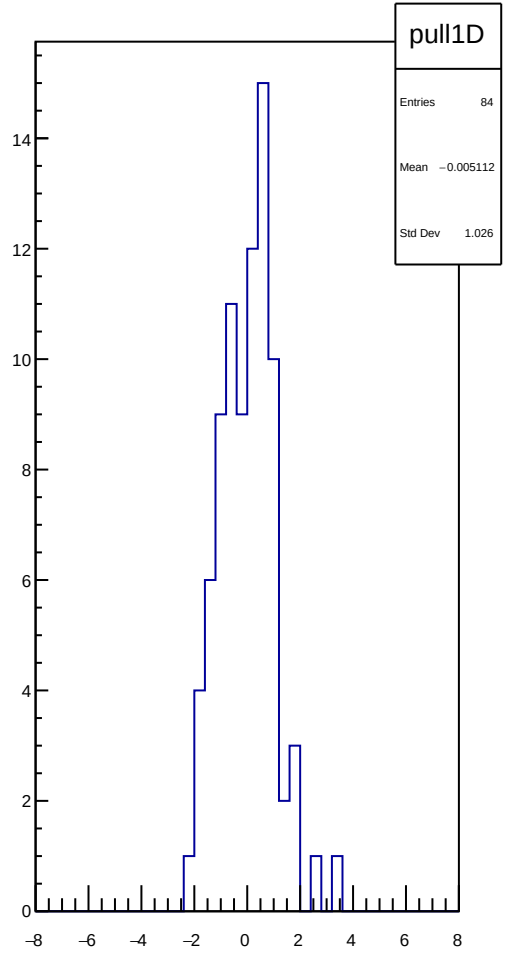

diff_bpm11X_rms vs run
χ² / ndf 5614 / 83
p0 1.028e+04 ± 8.079
12000
11500
11000
10500
10000
9500
9000

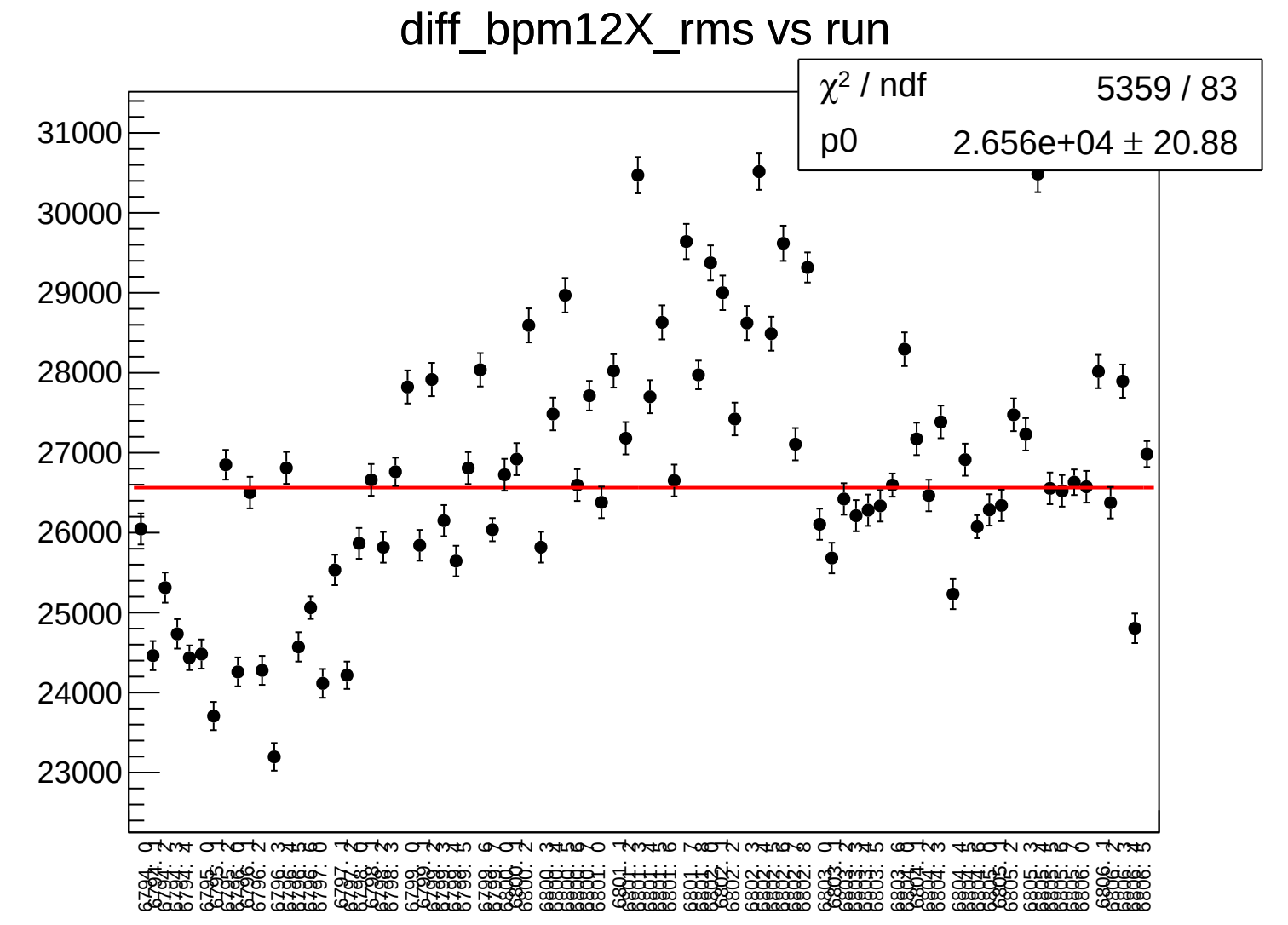

diff_bpm11Y_mean vs run
χ² / ndf 70.57 / 83
p0 −19.58 ± 19.28
pull
Entries 84
Mean −85.82
Std Dev 146.2

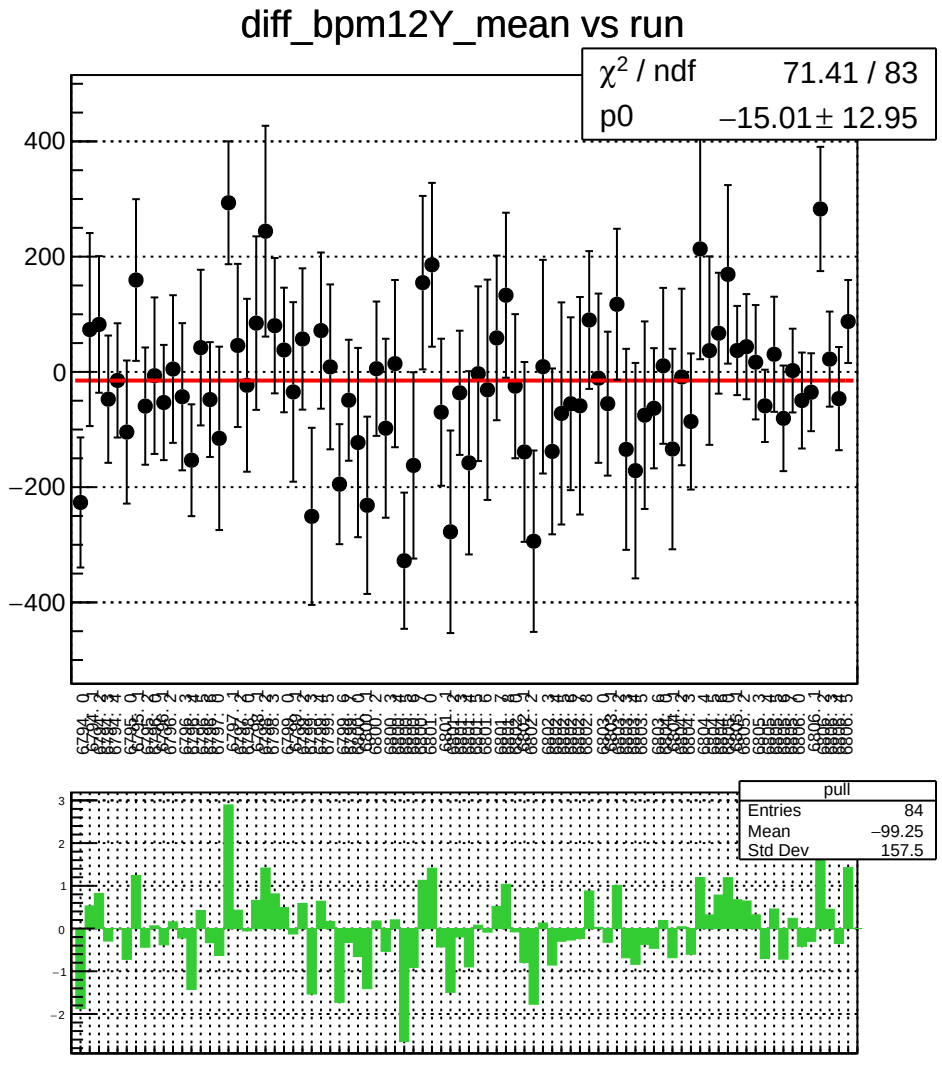

pull1D
Entries 84
Mean −0.01604
Std Dev 0.9164

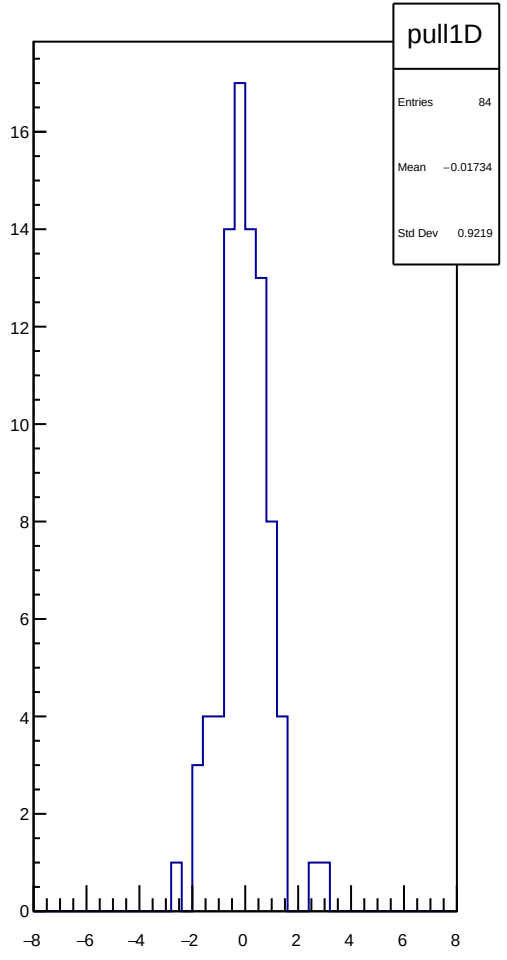

diff_bpm11Y_rms vs run
χ² / ndf 1.196e+05 / 83
p0 1.672e+04 ± 13.63
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000

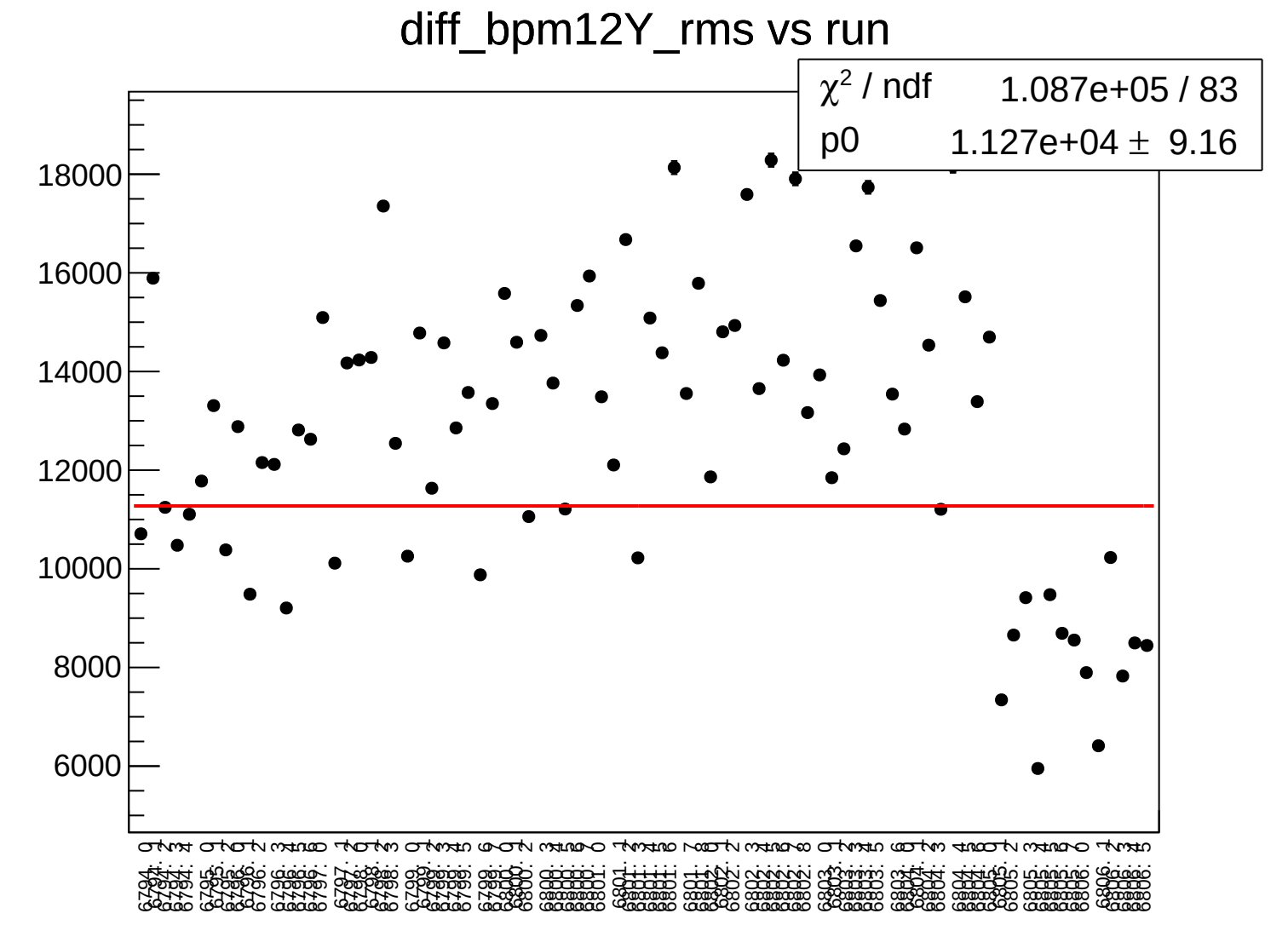

diff_bpm12X_mean vs run
χ² / ndf 88.49 / 83
p0 −28.44 ± 29.53
1000
500
0
−500
−1000
pull
Entries 84
Mean −528
Std Dev 579.4
3
2
1
0
−1
−2

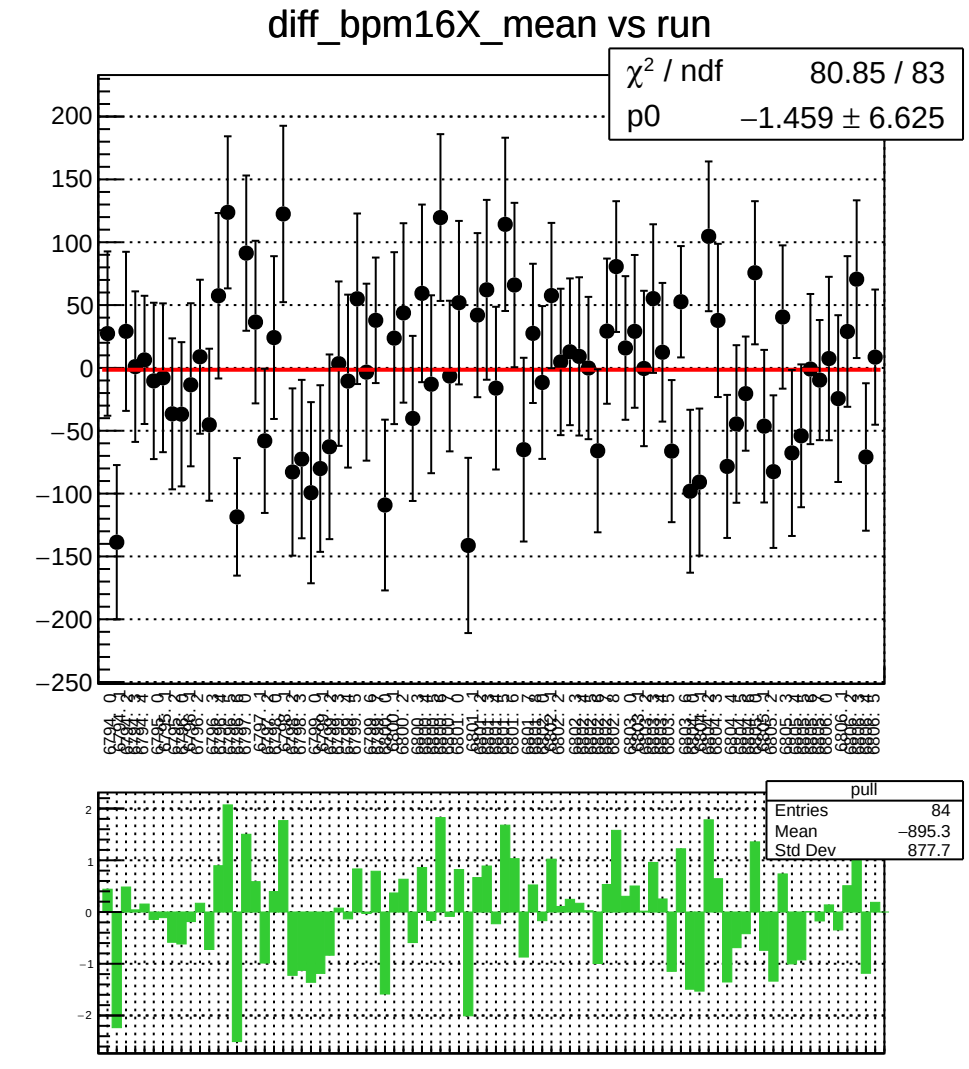

pull1D
Entries 84
Mean −0.005112
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

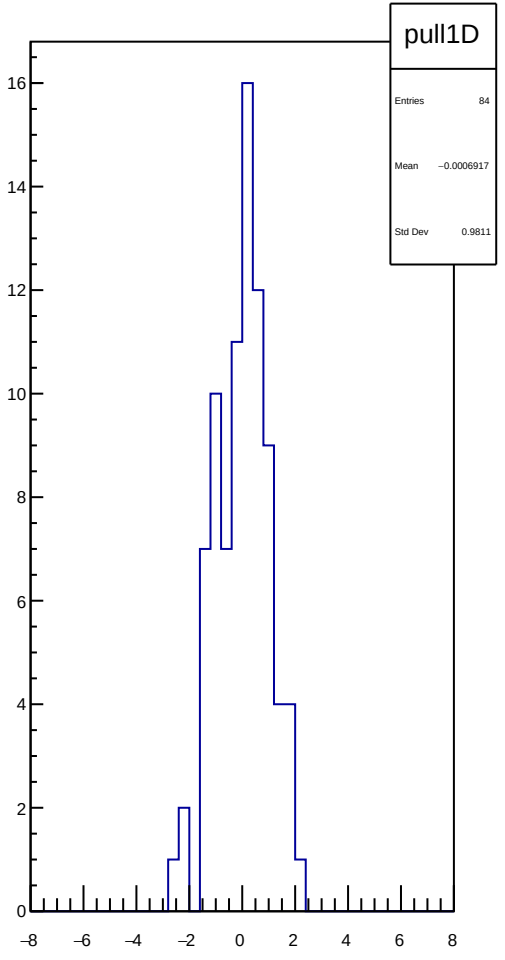

diff_bpm12X_rms vs run
χ² / ndf 5359 / 83
p0 2.656e+04 ± 20.88
31000
30000
29000
28000
27000
26000
25000
24000
23000

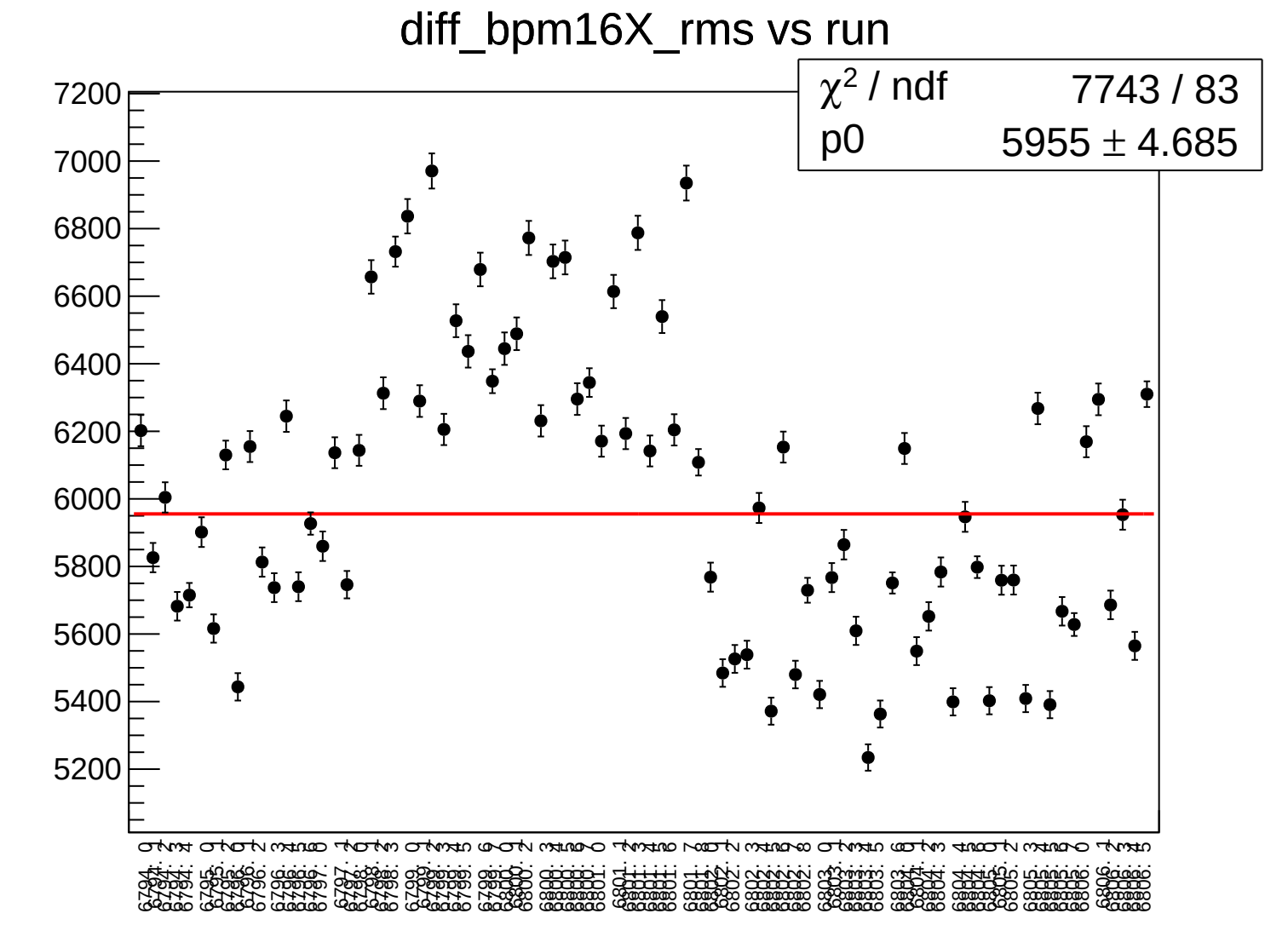

diff_bpm12Y_mean vs run
χ² / ndf 71.41 / 83
p0 −15.01 ± 12.95
400
200
0
−200
−400
pull
Entries 84
Mean −99.25
Std Dev 157.5
3
2
1
0
−1
−2

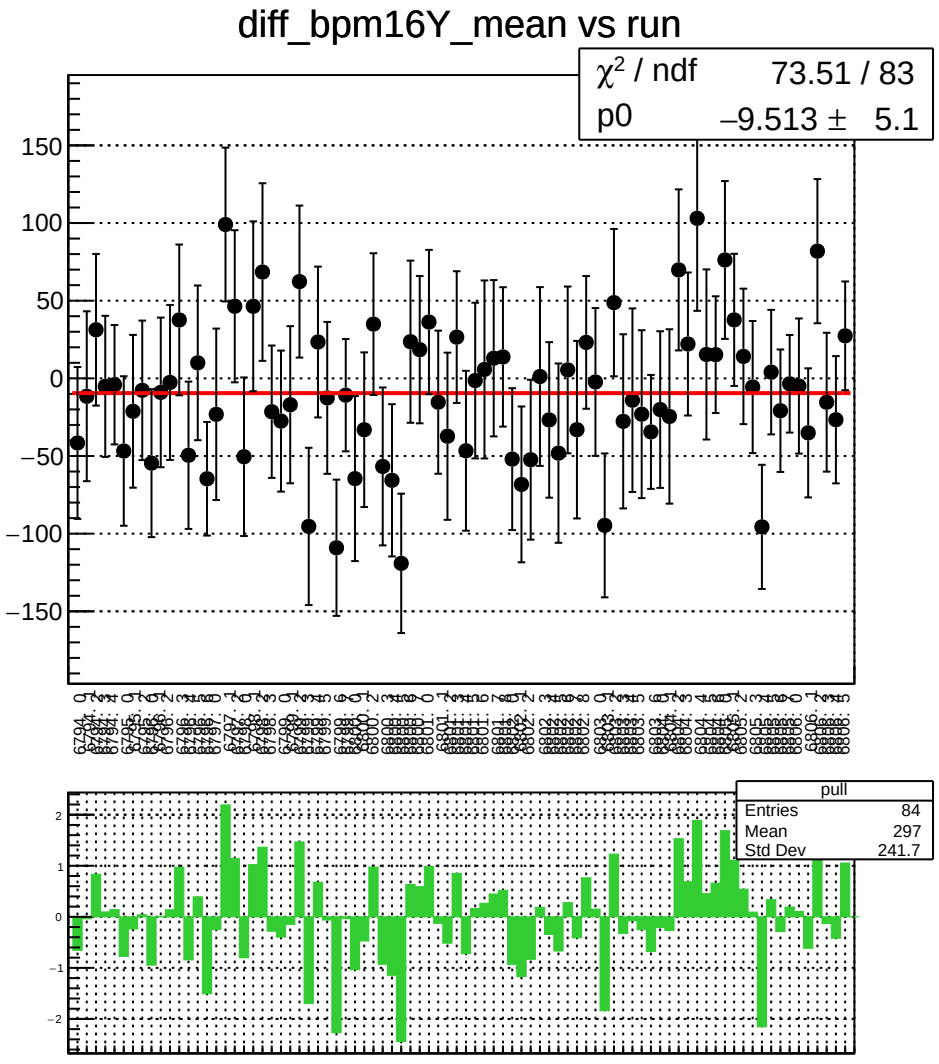

pull1D
Entries 84
Mean −0.01734
Std Dev 0.9219
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

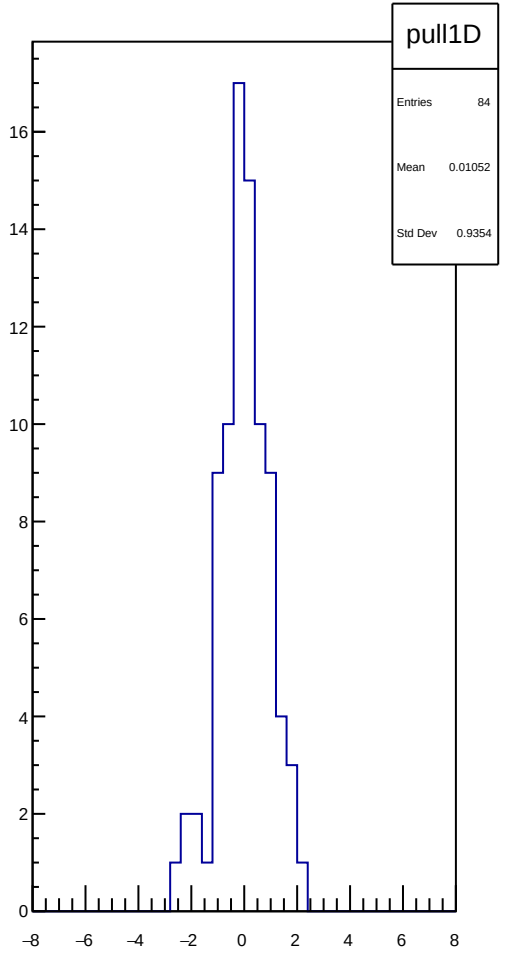

diff_bpm12Y_rms vs run
χ² / ndf 1.087e+05 / 83
p0 1.127e+04 ± 9.16
18000
16000
14000
12000
10000
8000
6000

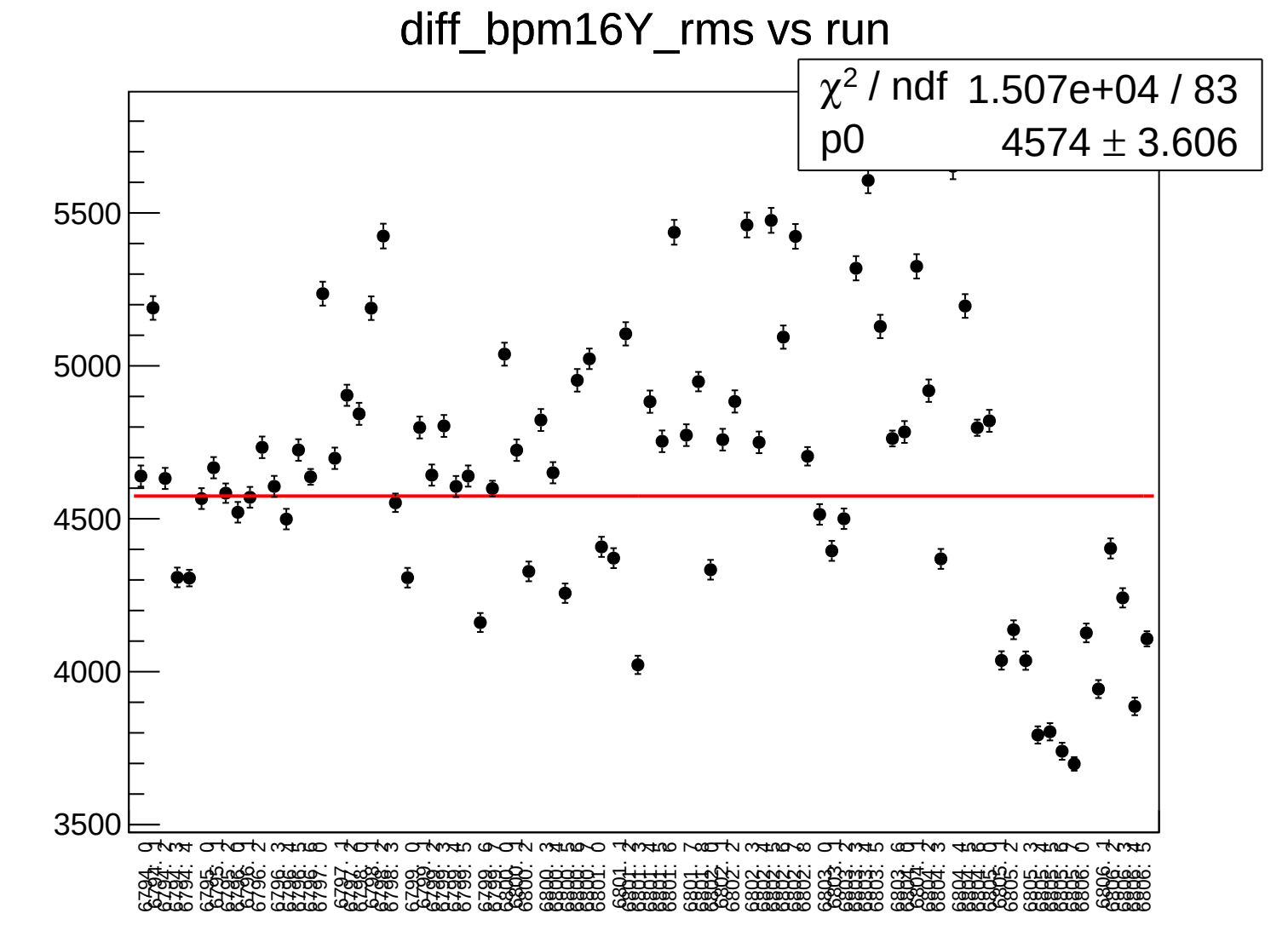

diff_bpm16X_mean vs run
χ² / ndf 80.85 / 83
p0 −1.459 ± 6.625
pull
Entries 84
Mean −895.3
Std Dev 877.7

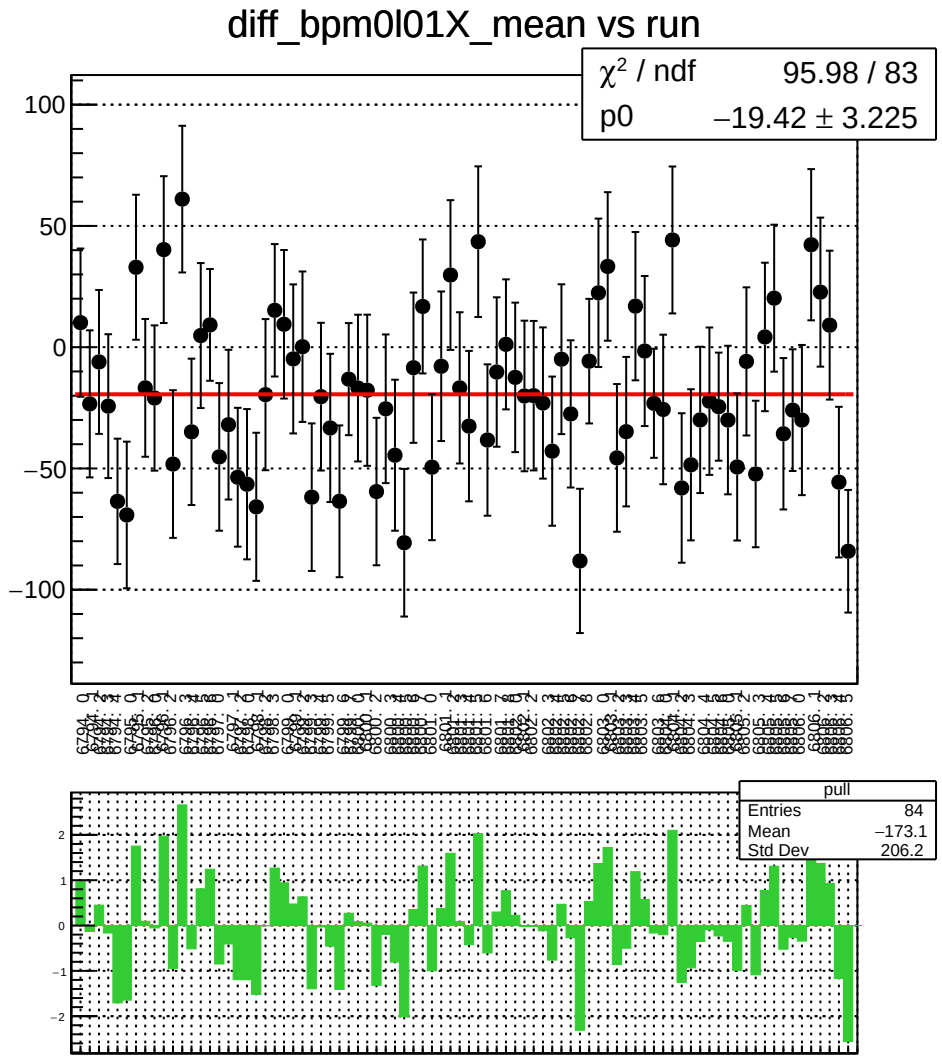

pull1D
Entries 84
Mean −0.0006917
Std Dev 0.9811

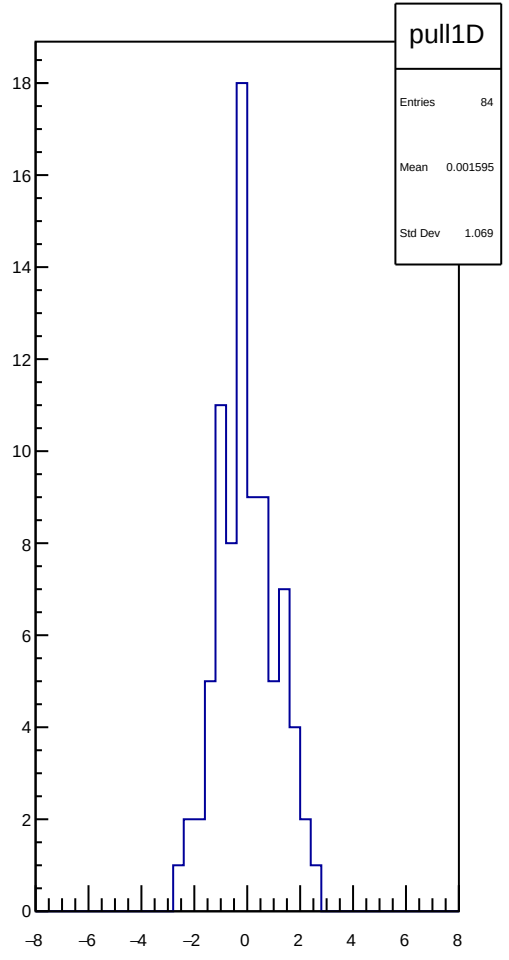

diff_bpm16X_rms vs run
χ² / ndf 7743 / 83
p0 5955 ± 4.685
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

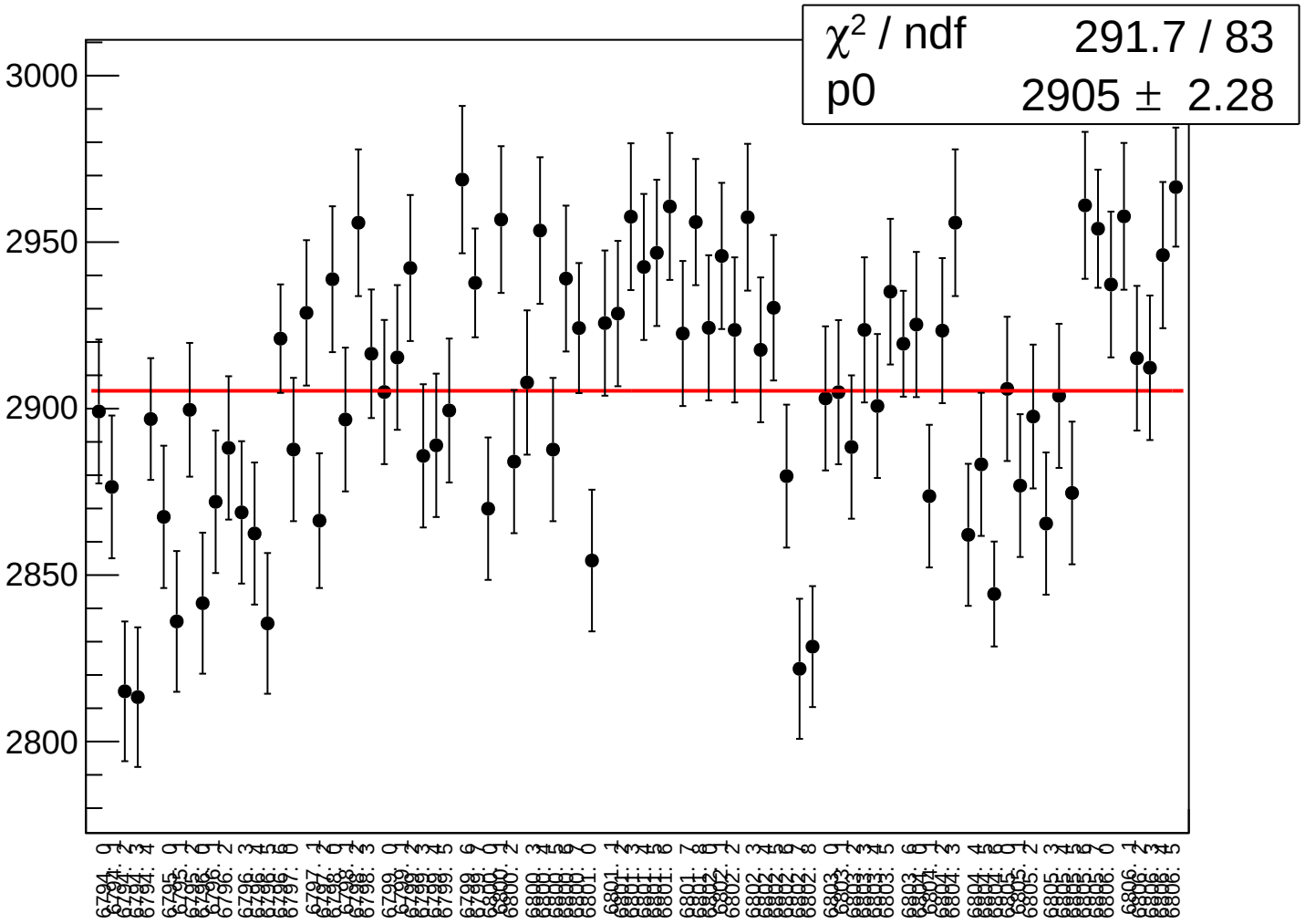

diff_bpm16Y_mean vs run
χ² / ndf 73.51 / 83
p0 −9.513 ± 5.1
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 297
Std Dev 241.7
2
1
0
−1
−2

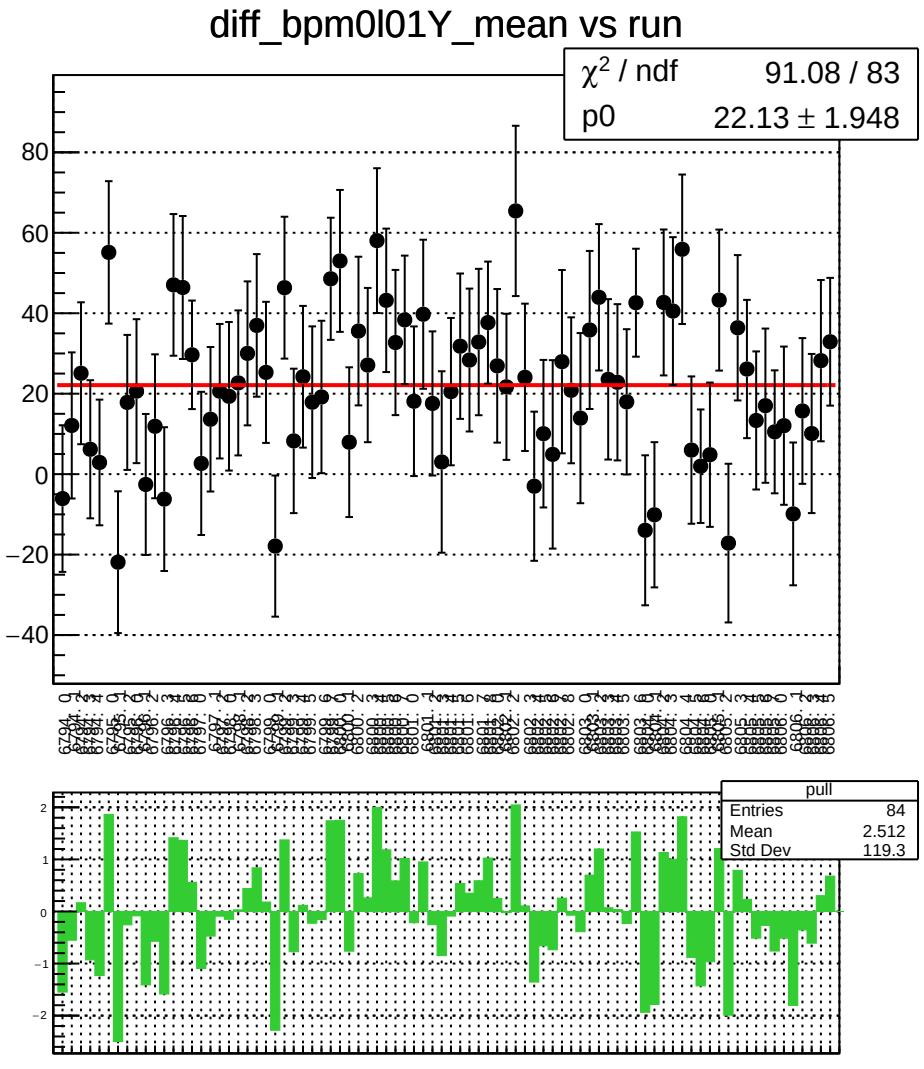

pull1D
Entries 84
Mean 0.01052
Std Dev 0.9354
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

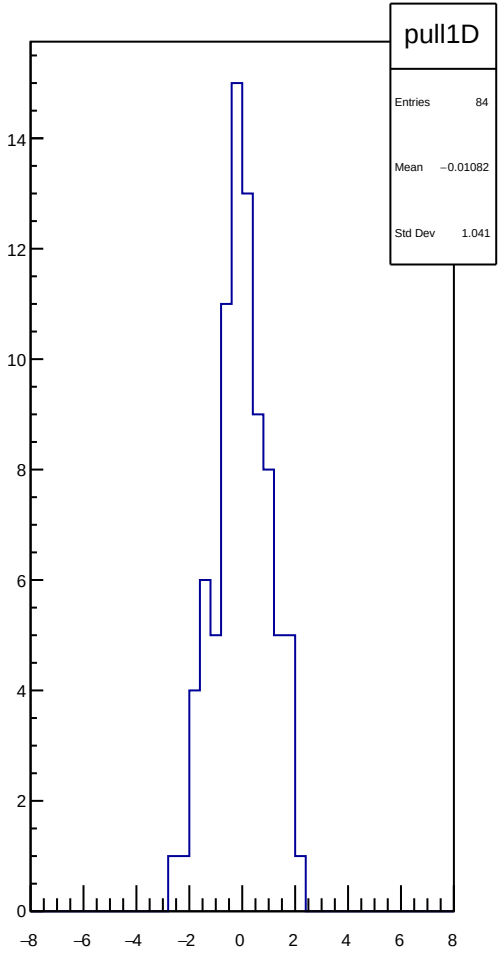

diff_bpm16Y_rms vs run
χ² / ndf 1.507e+04 / 83
p0 4574 ± 3.606
5500
5000
4500
4000
3500

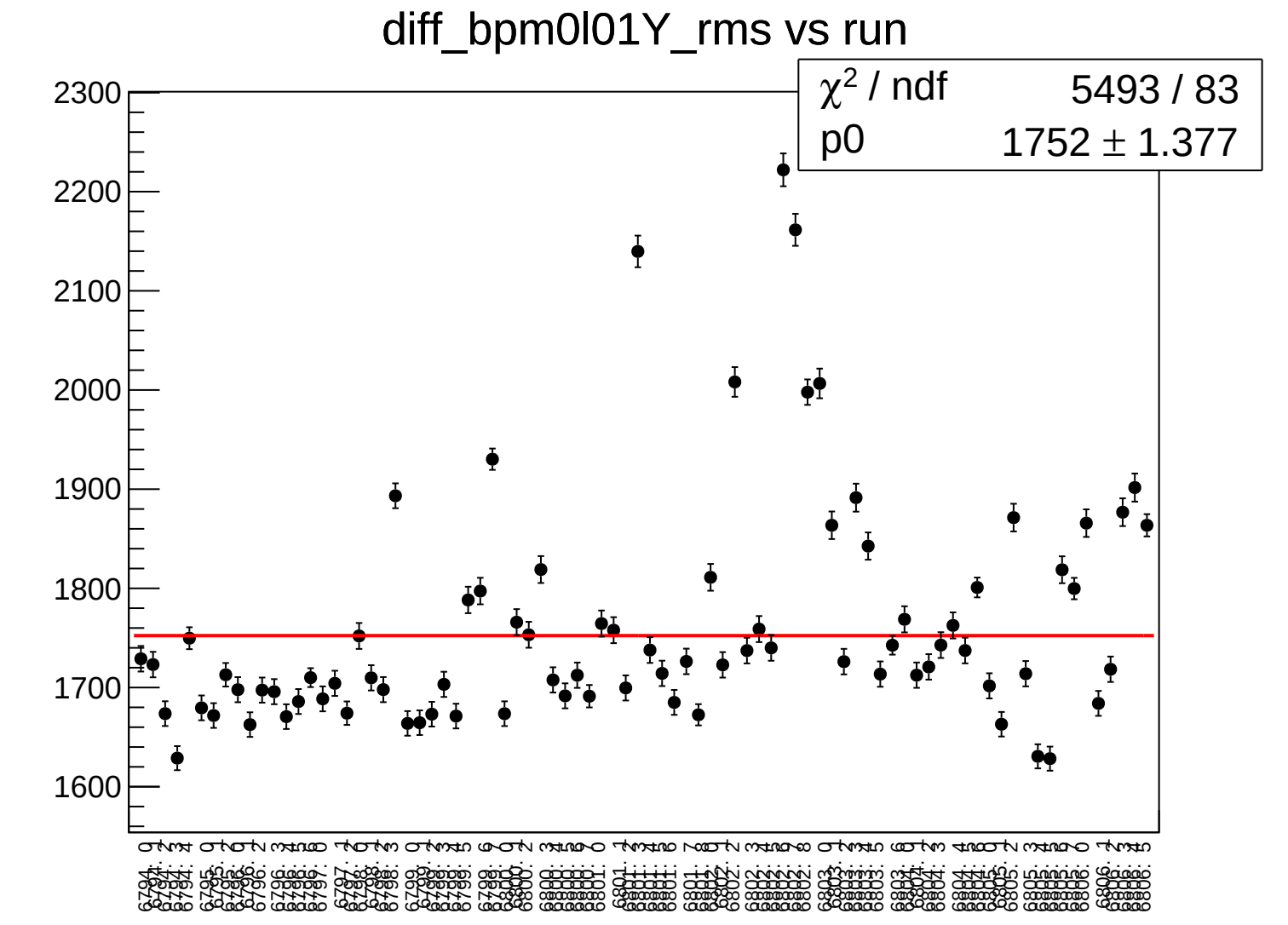

diff_bpm0l01X_mean vs run
χ² / ndf 95.98 / 83
p0 −19.42 ± 3.225
100
50
0
−50
−100
pull
Entries 84
Mean −173.1
Std Dev 206.2
2
1
0
−1
−2

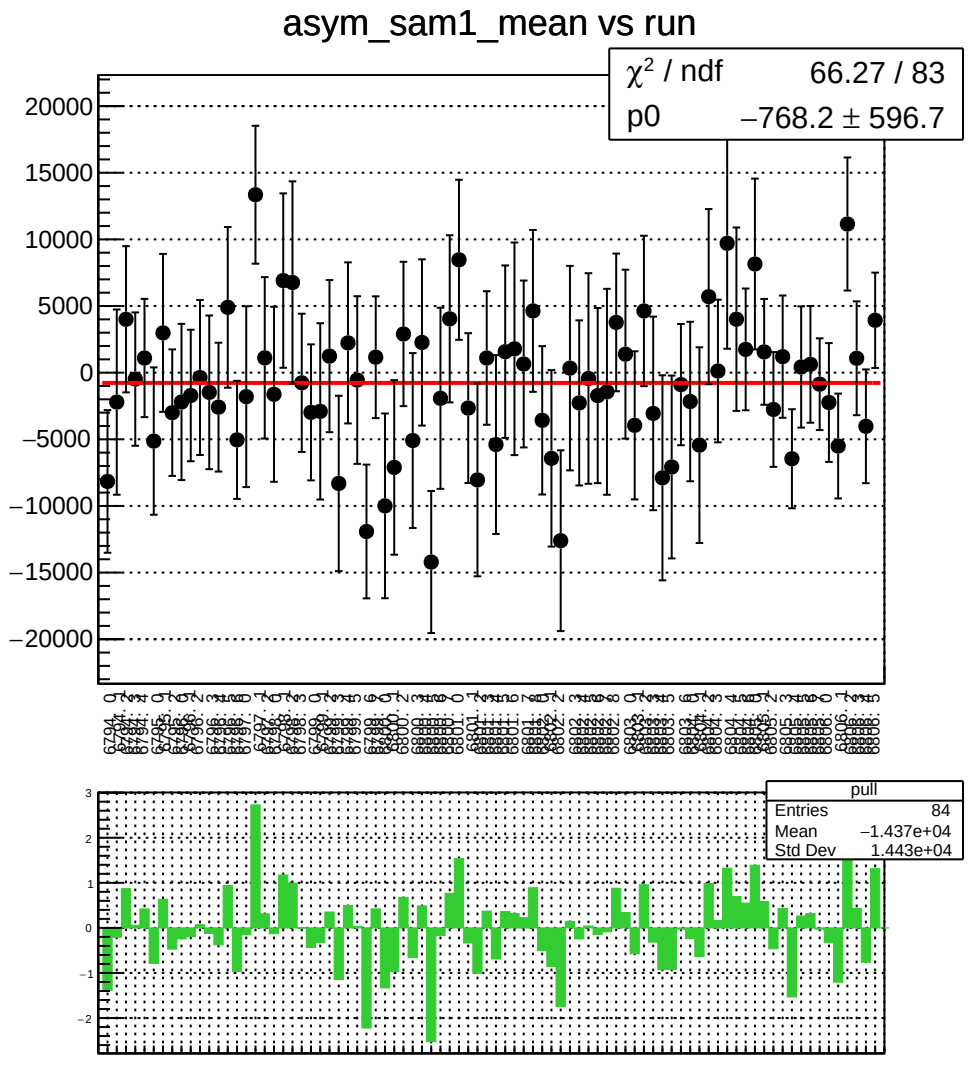

pull1D
Entries 84
Mean 0.001595
Std Dev 1.069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

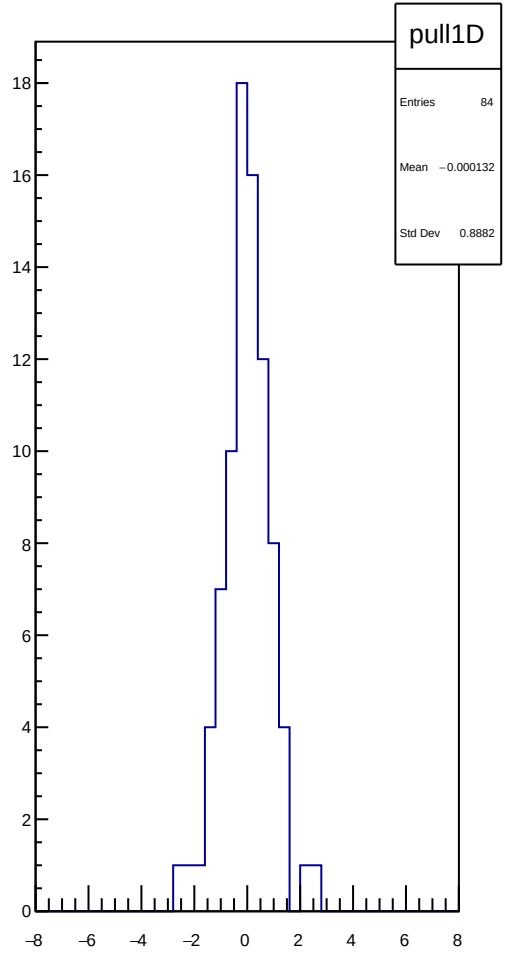

diff_bpm0l01X_rms vs run
χ² / ndf 291.7 / 83
p0 2905 ± 2.28
3000
2950
2900
2850
2800

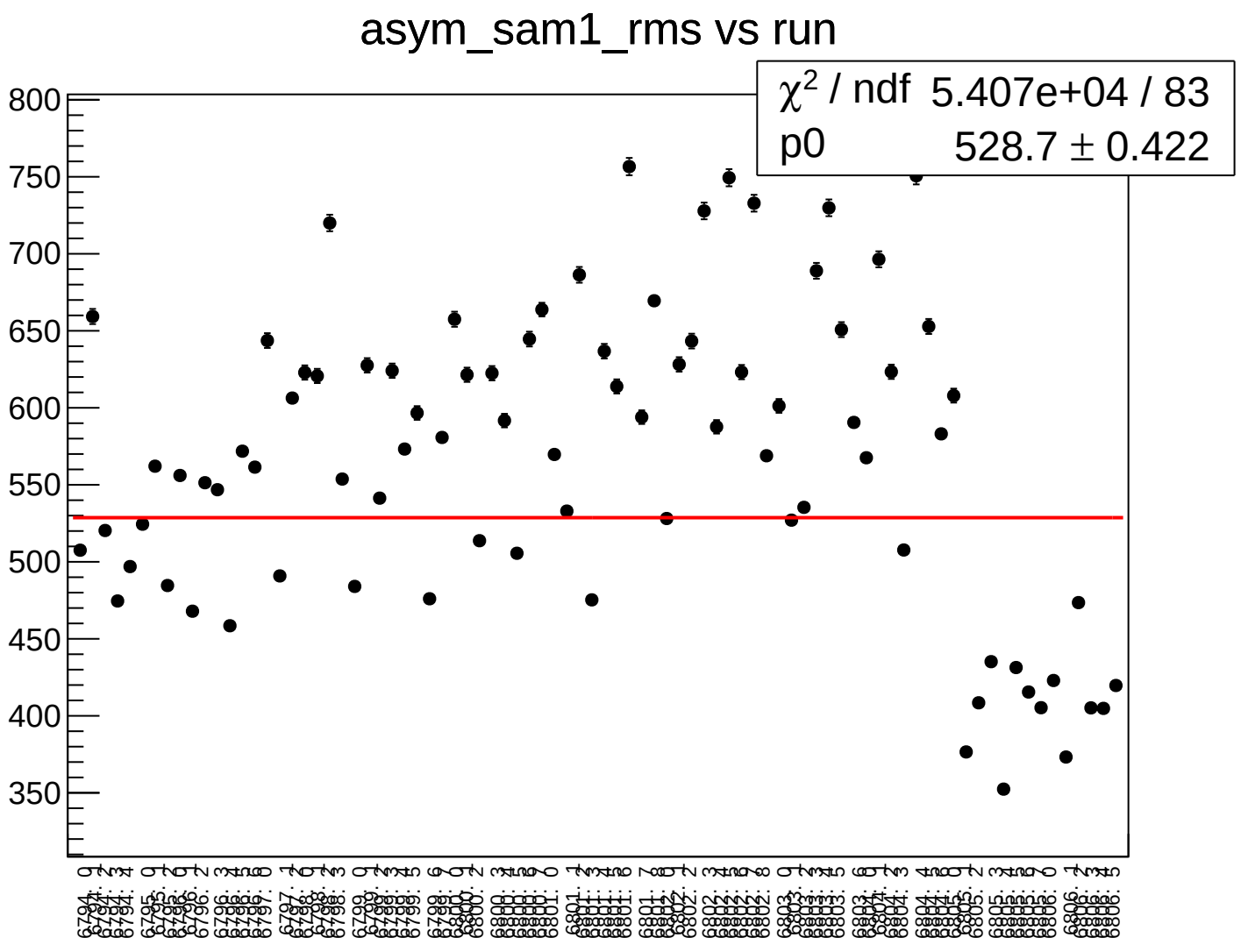

diff_bpm0l01Y_mean vs run
χ^2 / ndf 91.08 / 83
p0 22.13 ± 1.948
pull
Entries 84
Mean 2.512
Std Dev 119.3

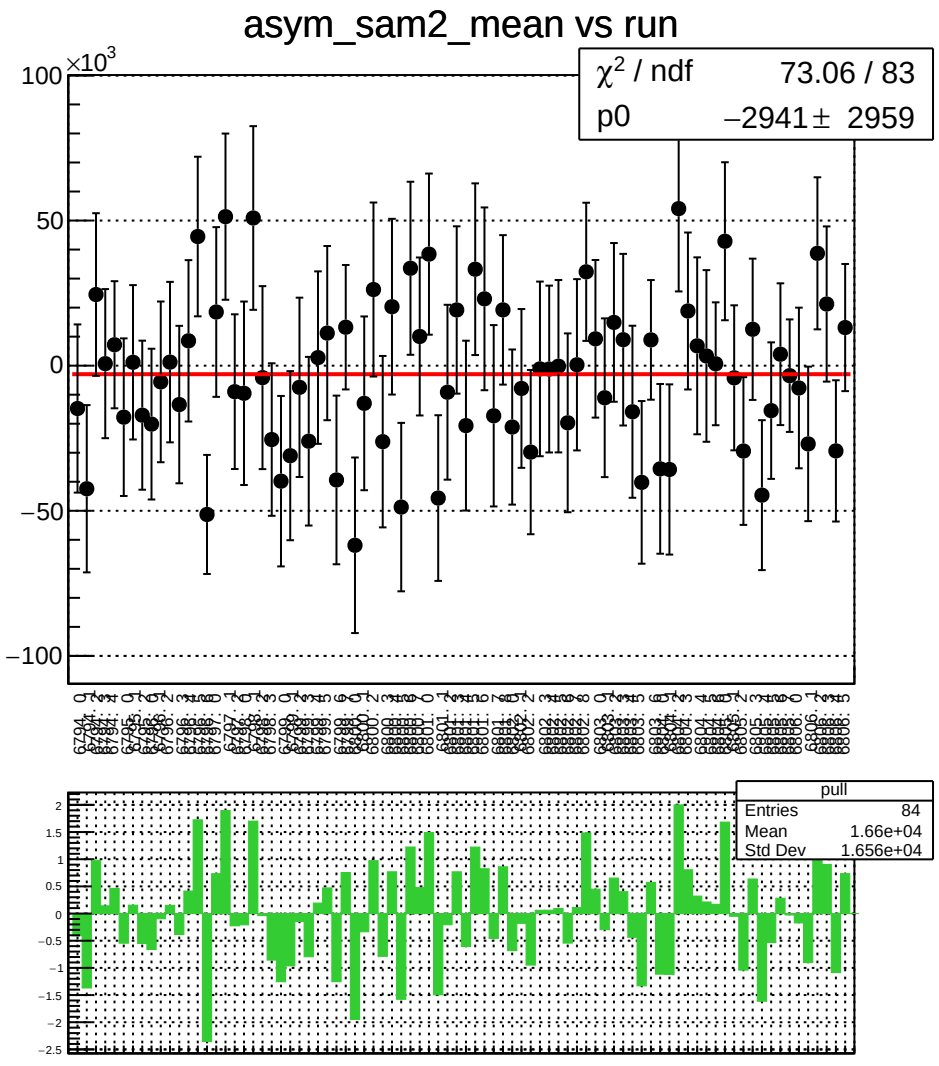

pull1D
Entries 84
Mean −0.01082
Std Dev 1.041

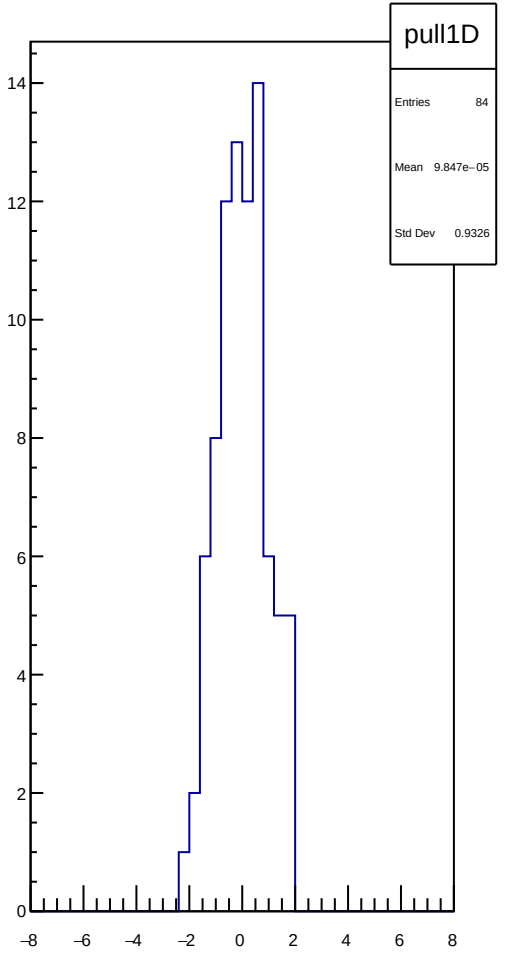

diff_bpm0l01Y_rms vs run
χ² / ndf 5493 / 83
p0 1752 ± 1.377
2300
2200
2100
2000
1900
1800
1700
1600

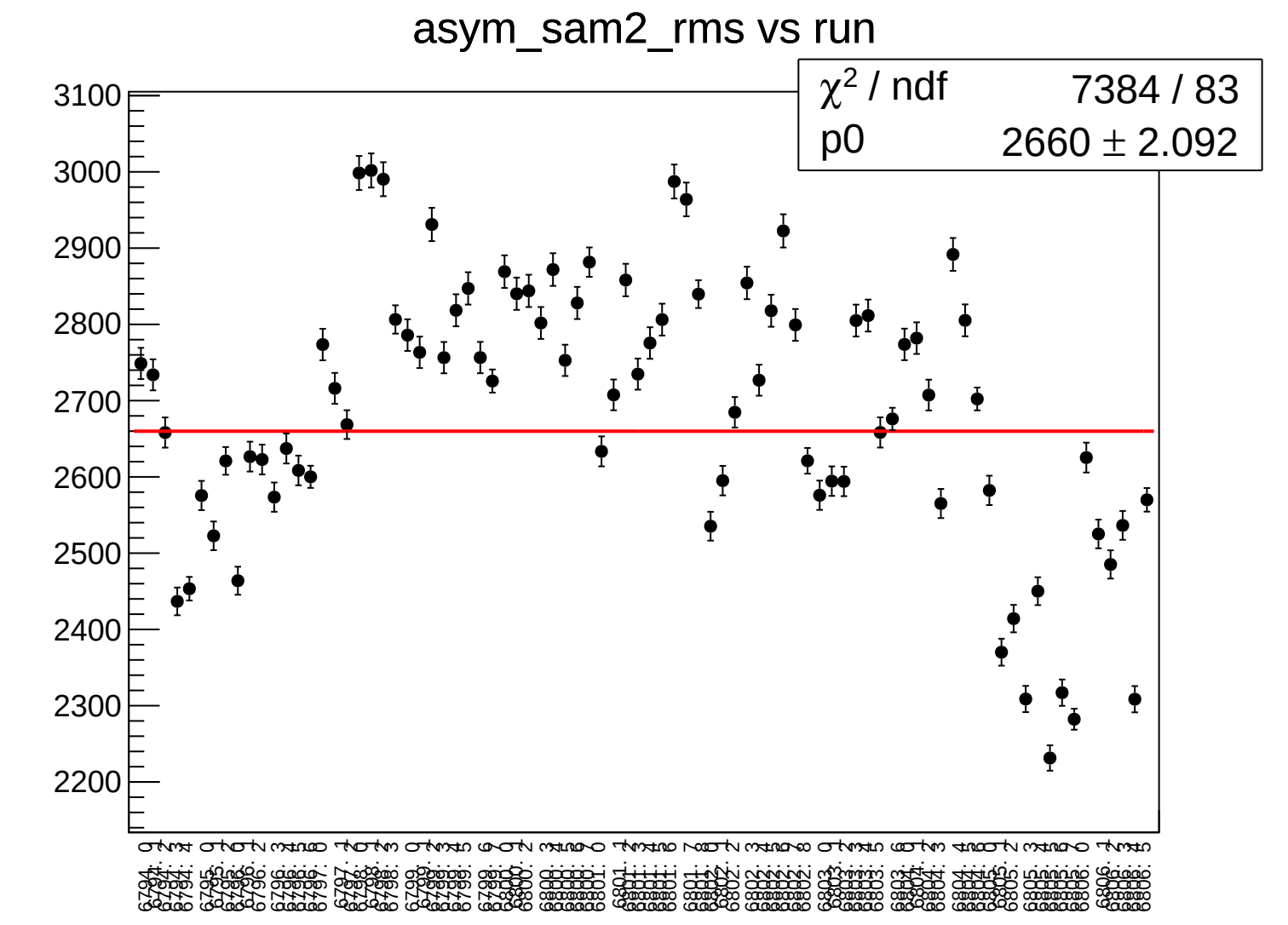

asym_sam1_mean vs run
χ² / ndf 66.27 / 83
p0 −768.2 ± 596.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean −1.437e+04
Std Dev 1.443e+04
3
2
1
0
−1
−2

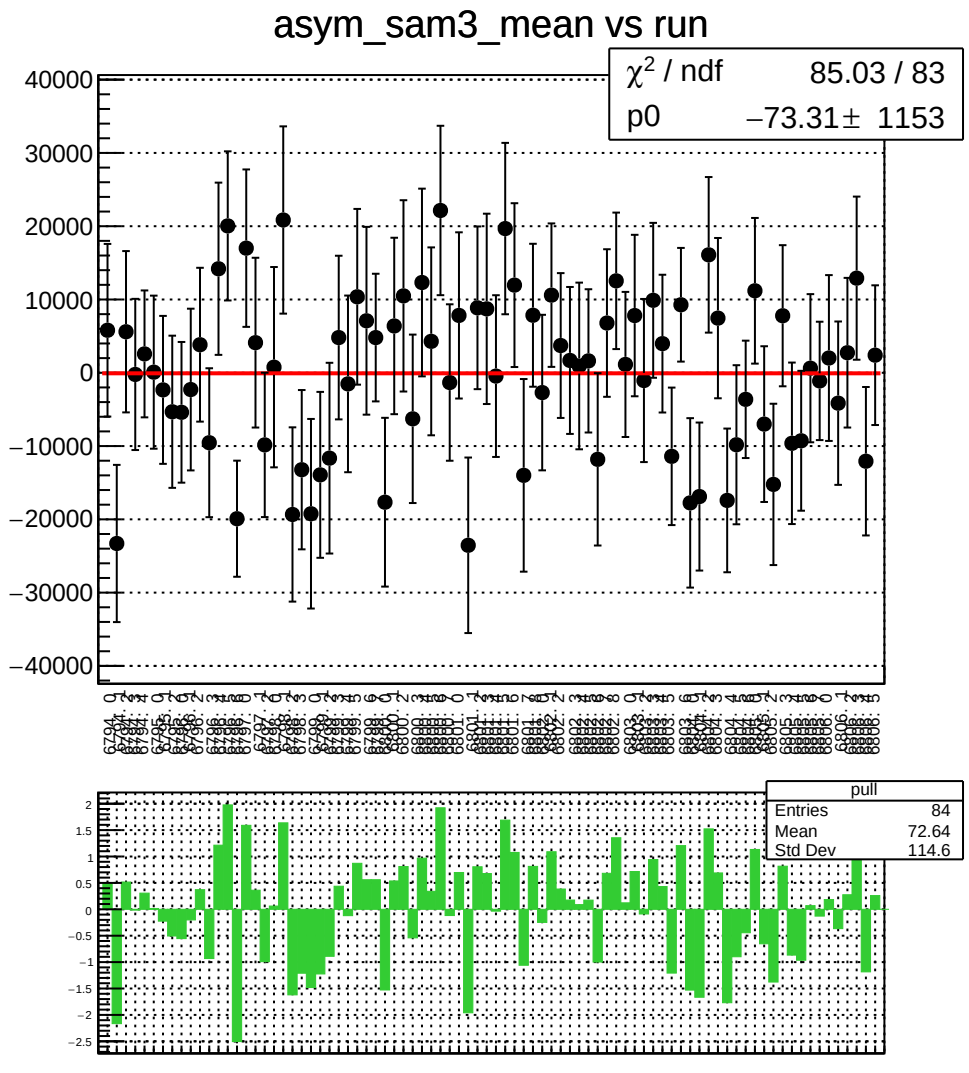

pull1D
Entries 84
Mean −0.000132
Std Dev 0.8882
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

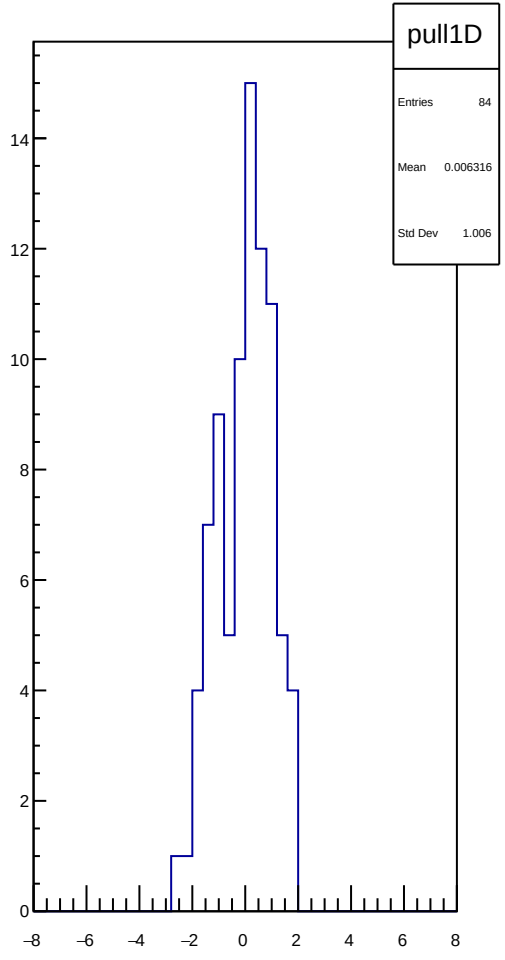

asym_sam1_rms vs run
χ² / ndf 5.407e+04 / 83
p0 528.7 ± 0.422
800
750
700
650
600
550
500
450
400
350

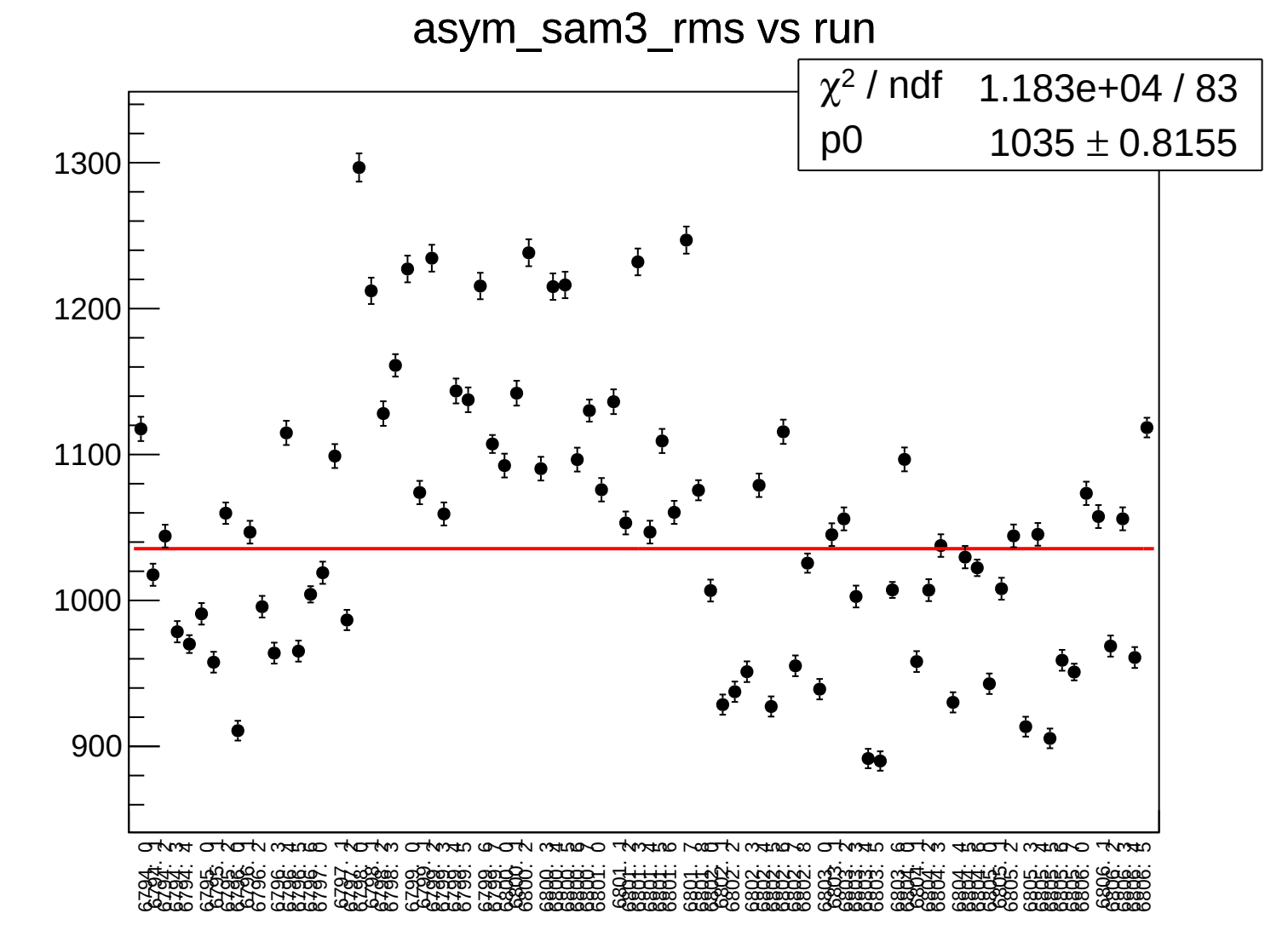

asym_sam2_mean vs run
χ² / ndf 73.06 / 83
p0 −2941 ± 2959
×10³
100
50
0
−50
−100
pull
Entries 84
Mean 1.66e+04
Std Dev 1.656e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

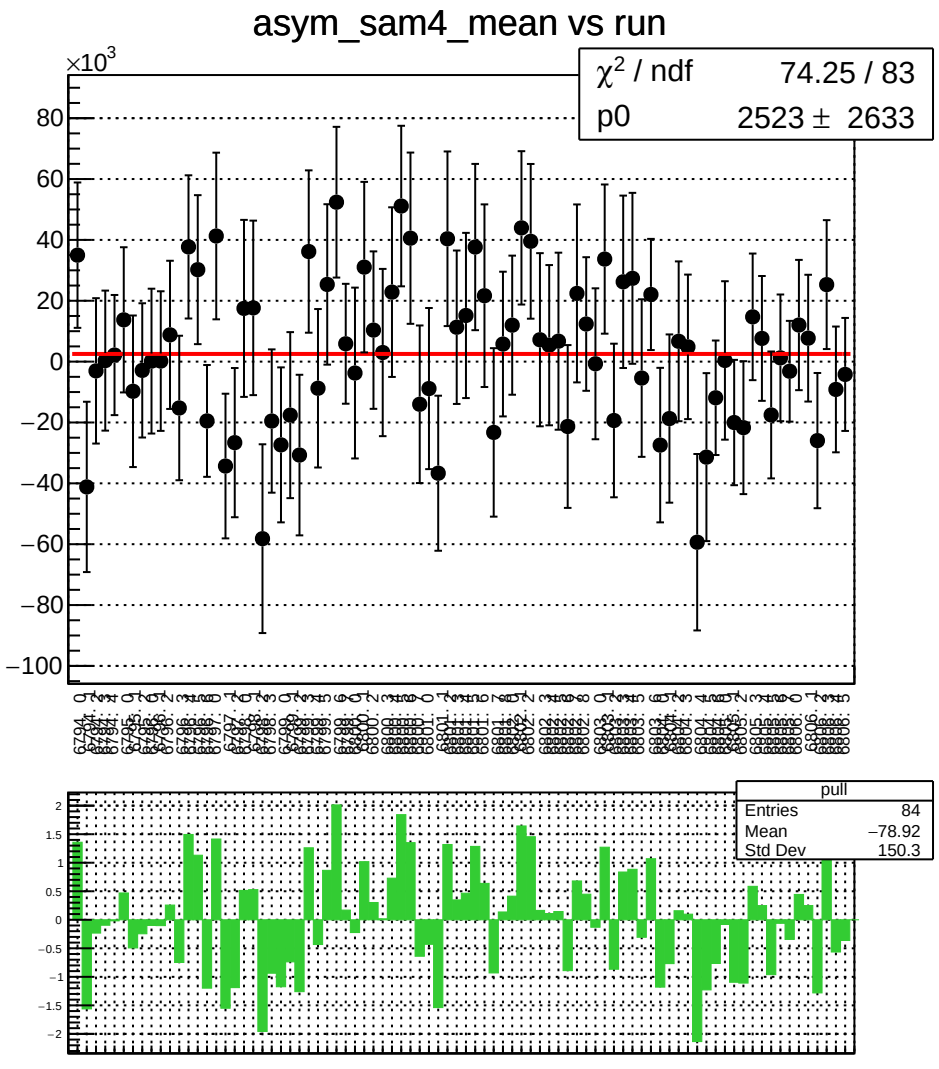

pull1D
Entries 84
Mean 9.847e−05
Std Dev 0.9326
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

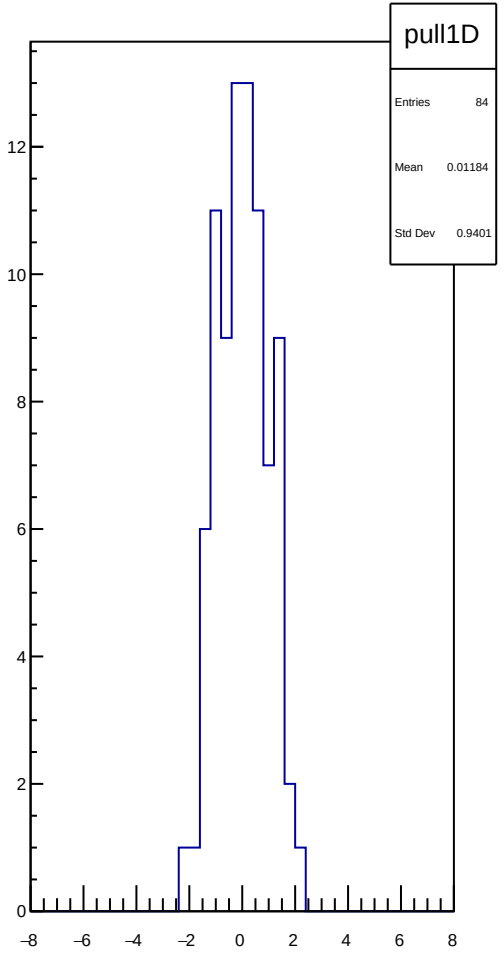

asym_sam2_rms vs run
χ^2 / ndf 7384 / 83
p0 2660 ± 2.092
3100
3000
2900
2800
2700
2600
2500
2400
2300
2200

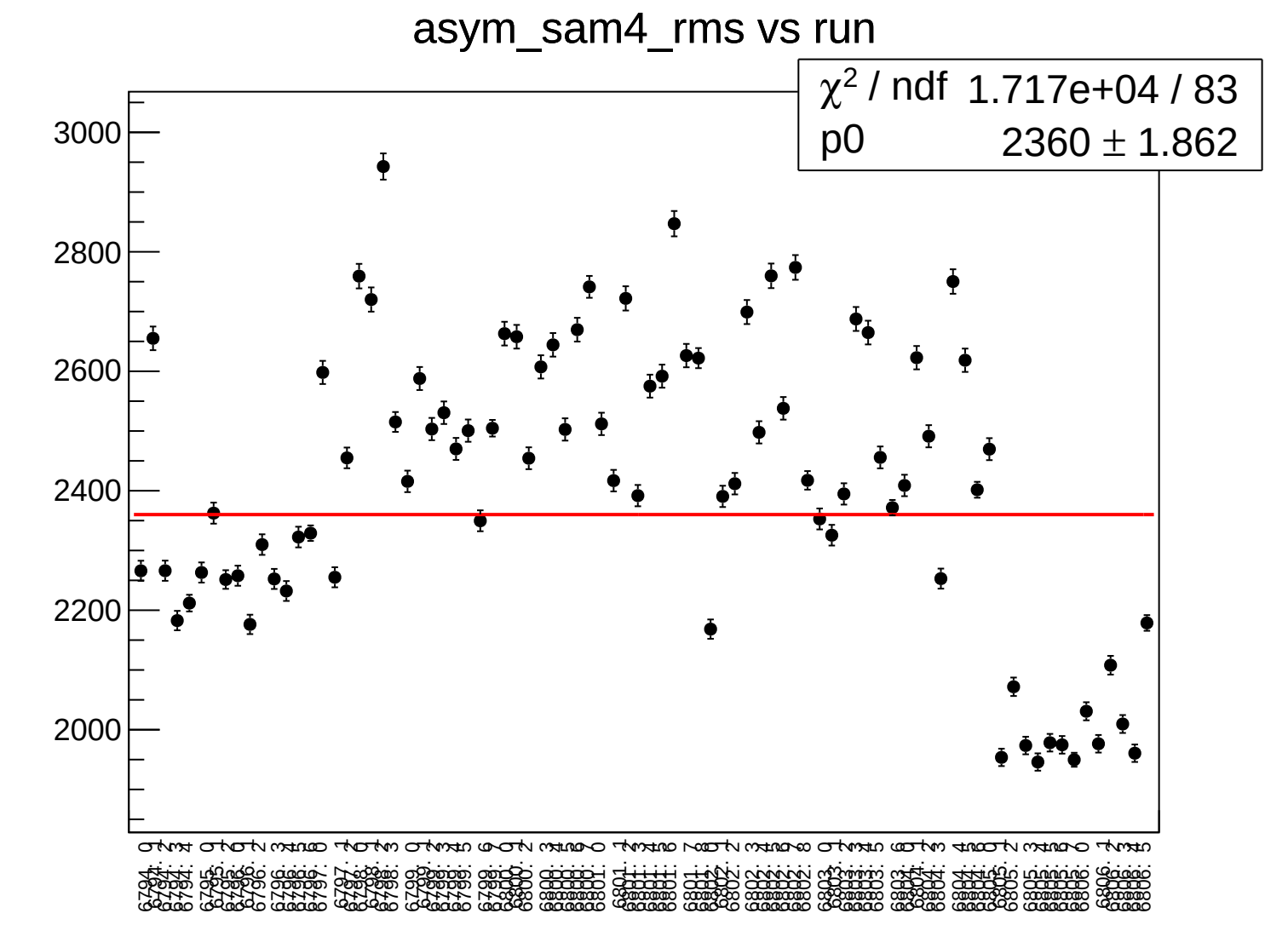

asym_sam3_mean vs run
χ² / ndf 85.03 / 83
p0 −73.31± 1153
pull
Entries 84
Mean 72.64
Std Dev 114.6

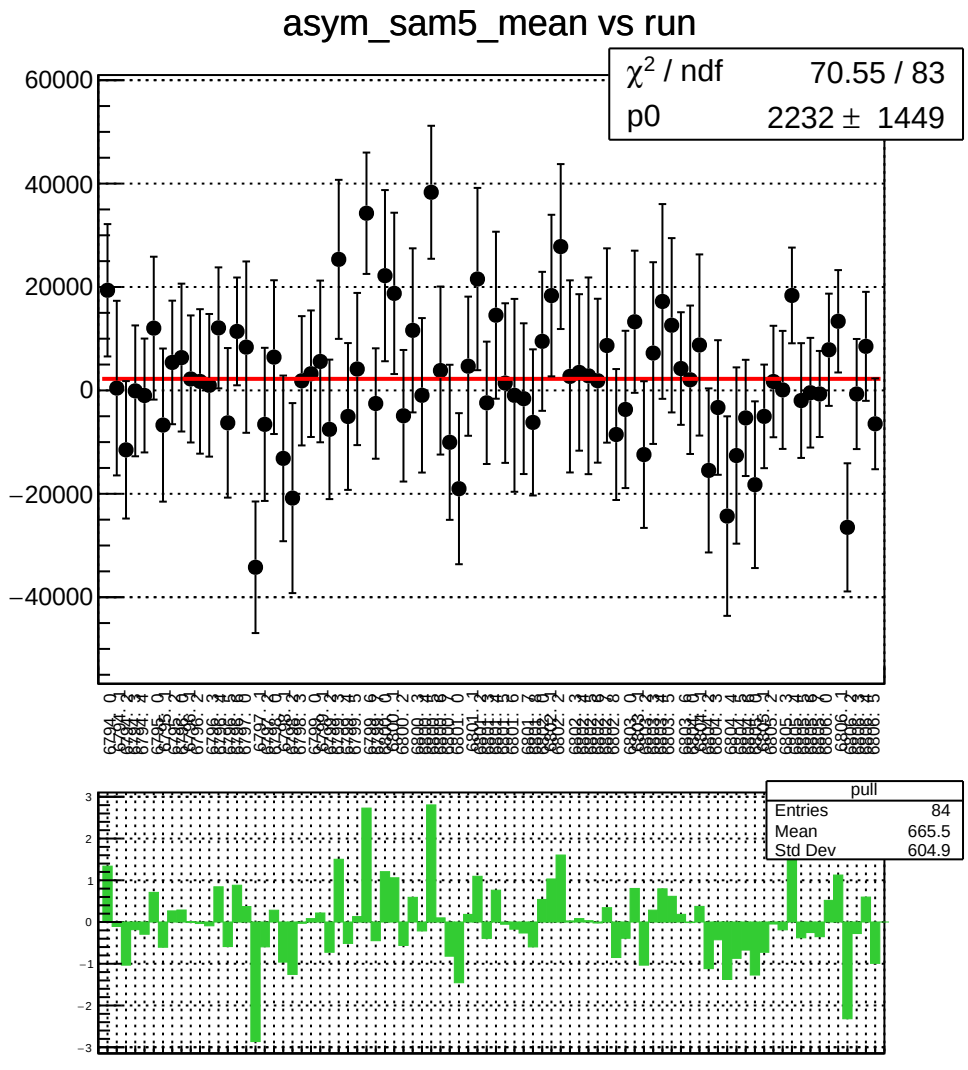

pull1D
Entries 84
Mean 0.006316
Std Dev 1.006

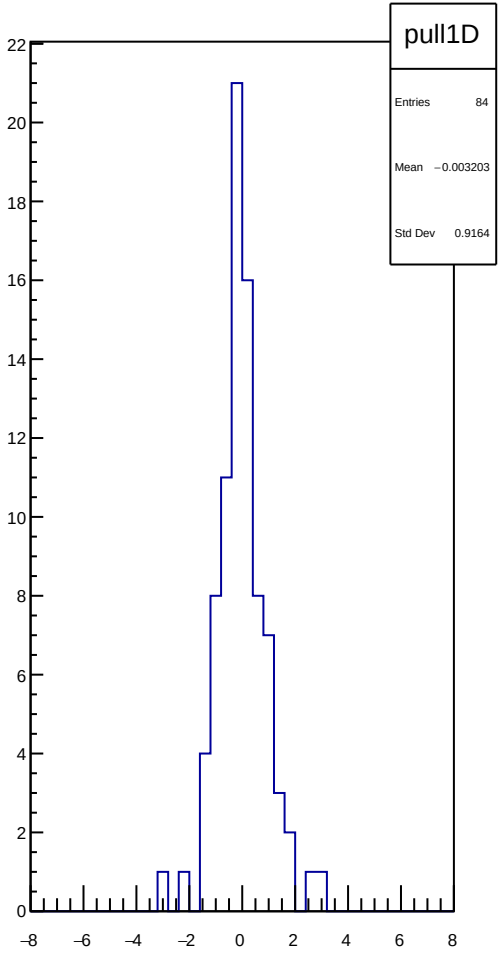

asym_sam3_rms vs run
χ^2 / ndf 1.183e+04 / 83
p0 1035 ± 0.8155
1300
1200
1100
1000
900

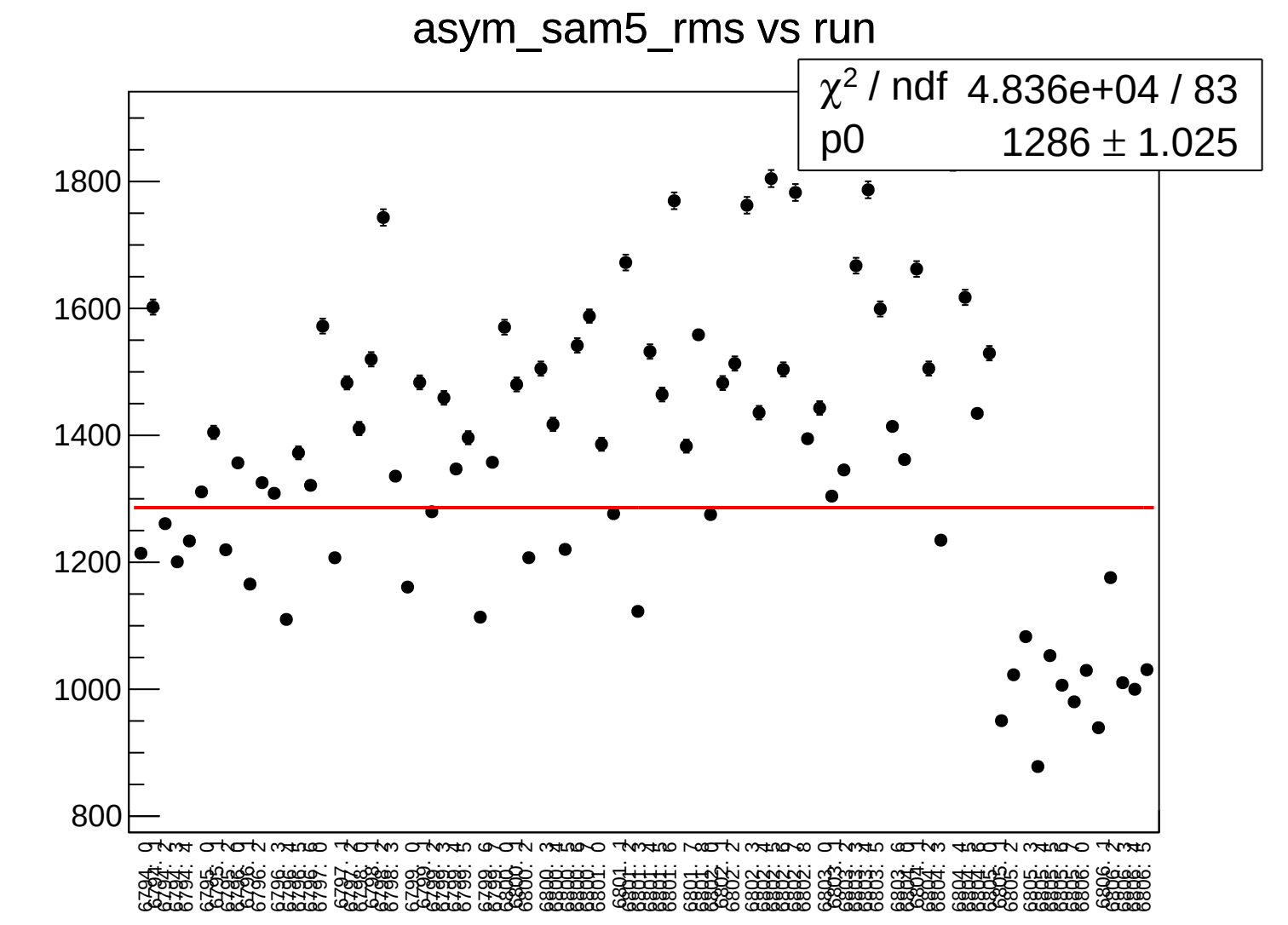

asym_sam4_mean vs run
×10^3
χ^2 / ndf 74.25 / 83
p0 2523 ± 2633
pull
Entries 84
Mean −78.92
Std Dev 150.3

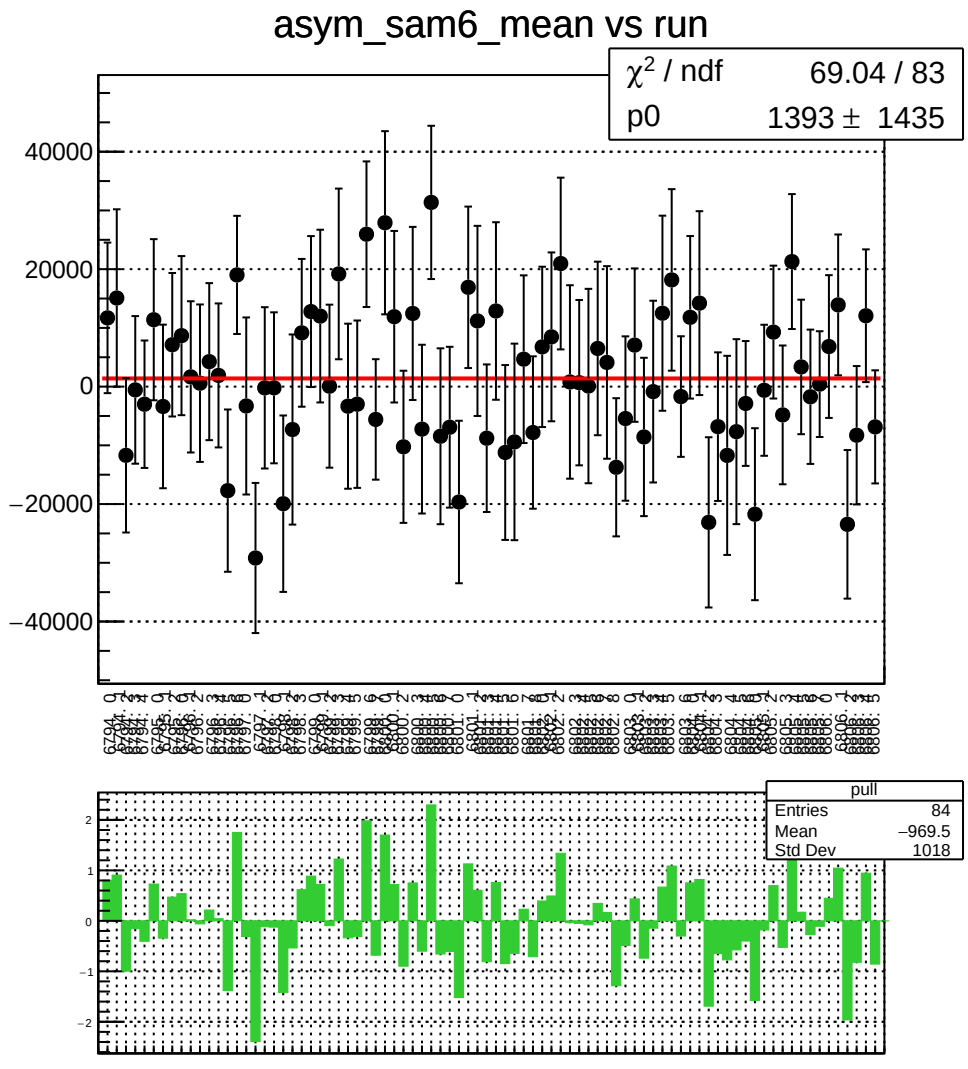

pull1D
Entries 84
Mean 0.01184
Std Dev 0.9401

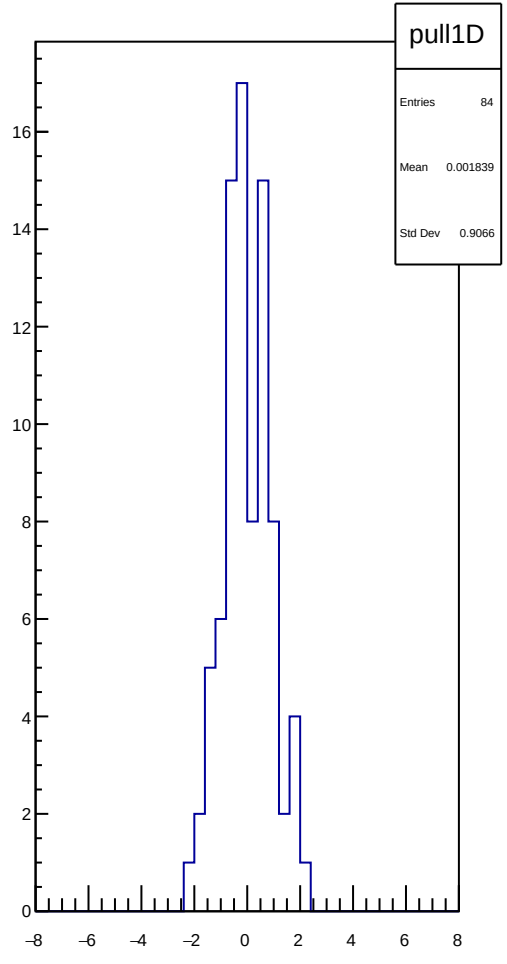

asym_sam4_rms vs run
χ² / ndf 1.717e+04 / 83
p0 2360 ± 1.862
3000
2800
2600
2400
2200
2000

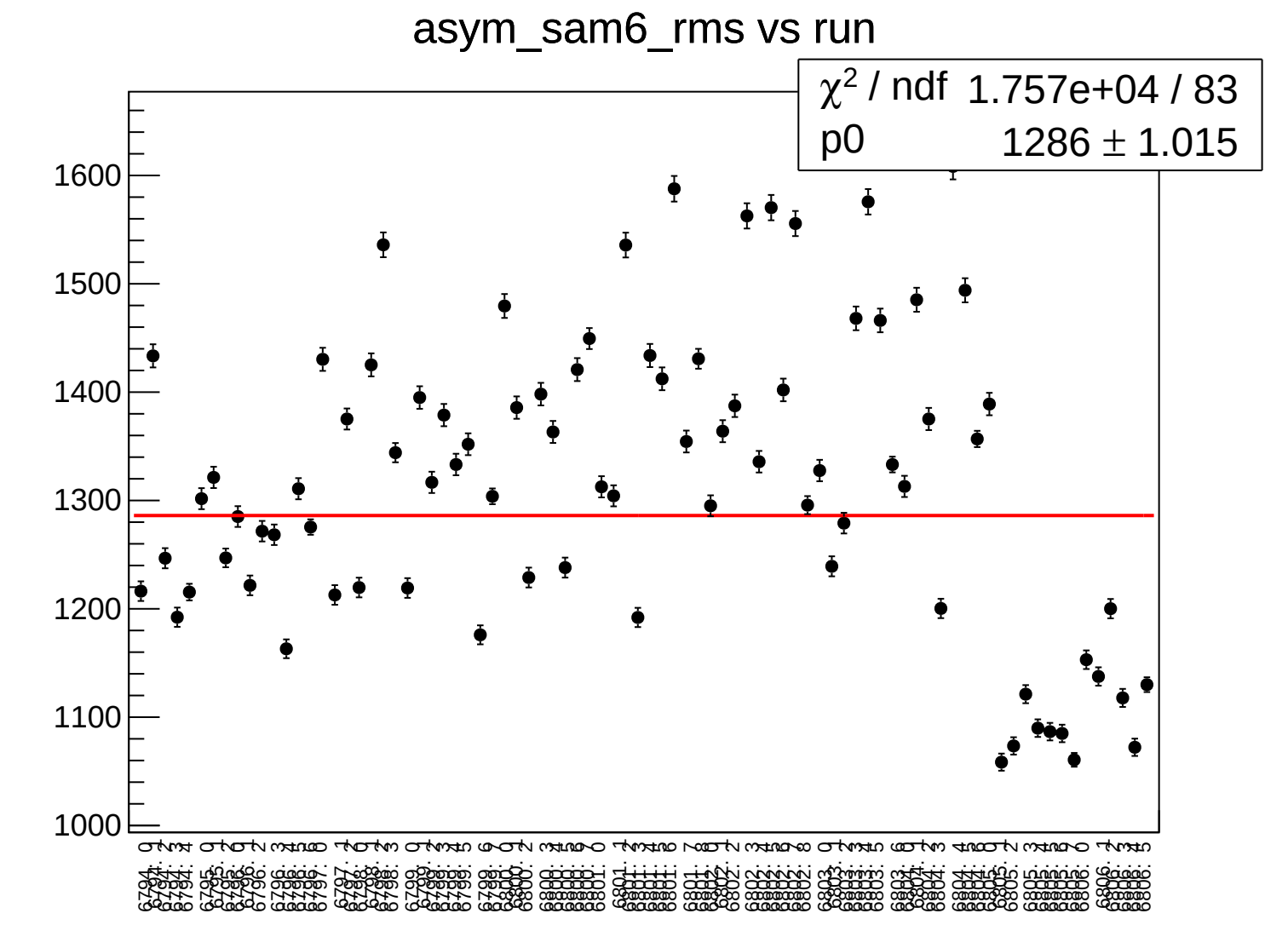

asym_sam5_mean vs run
χ² / ndf 70.55 / 83
p0 2232 ± 1449
pull
Entries 84
Mean 665.5
Std Dev 604.9

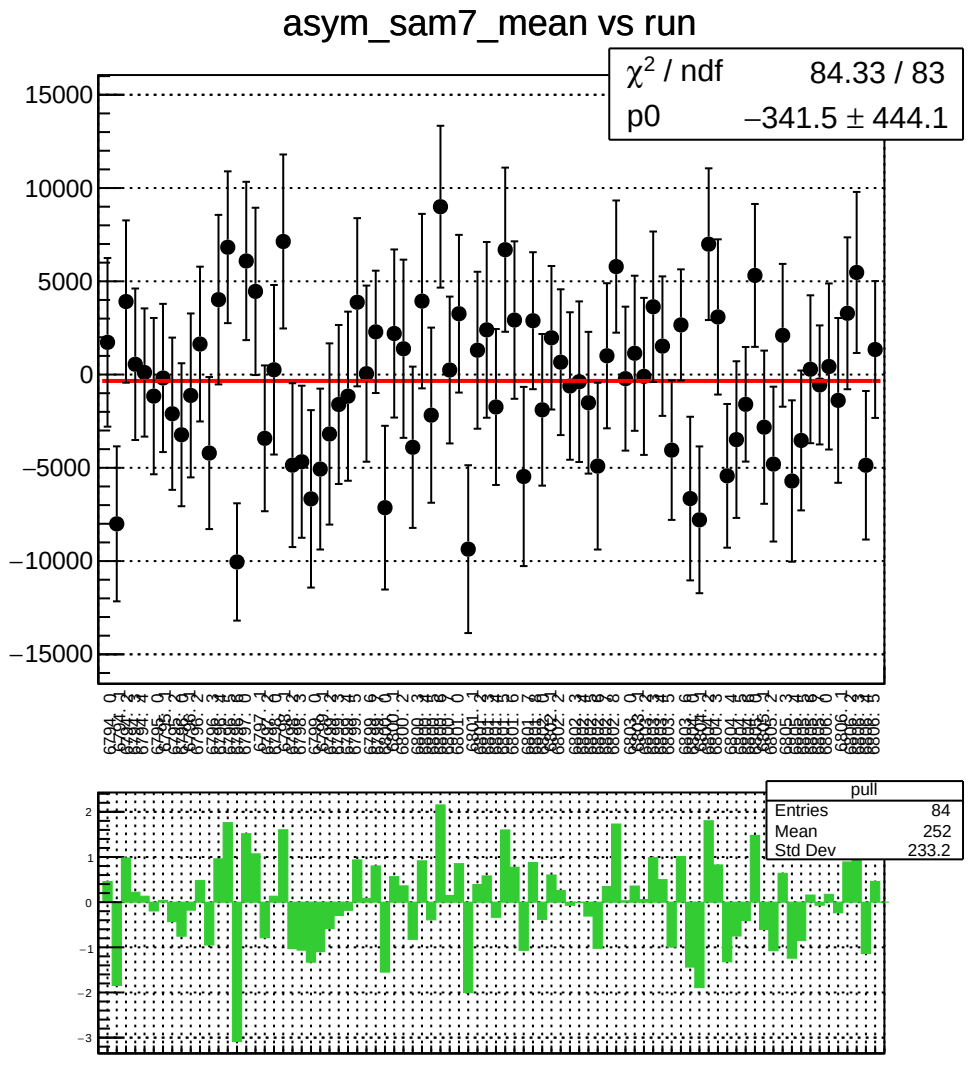

pull1D
Entries 84
Mean −0.003203
Std Dev 0.9164

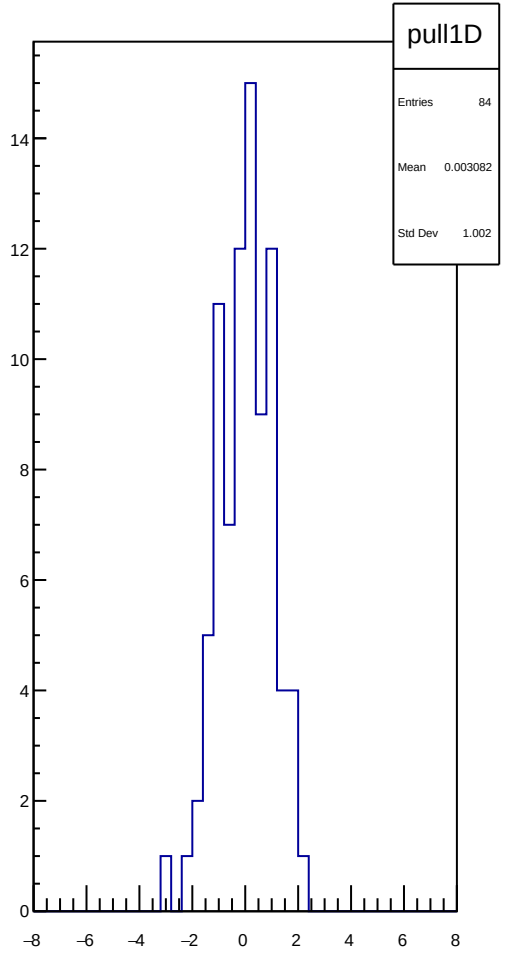

asym_sam5_rms vs run
χ² / ndf 4.836e+04 / 83
p0 1286 ± 1.025
1800
1600
1400
1200
1000
800

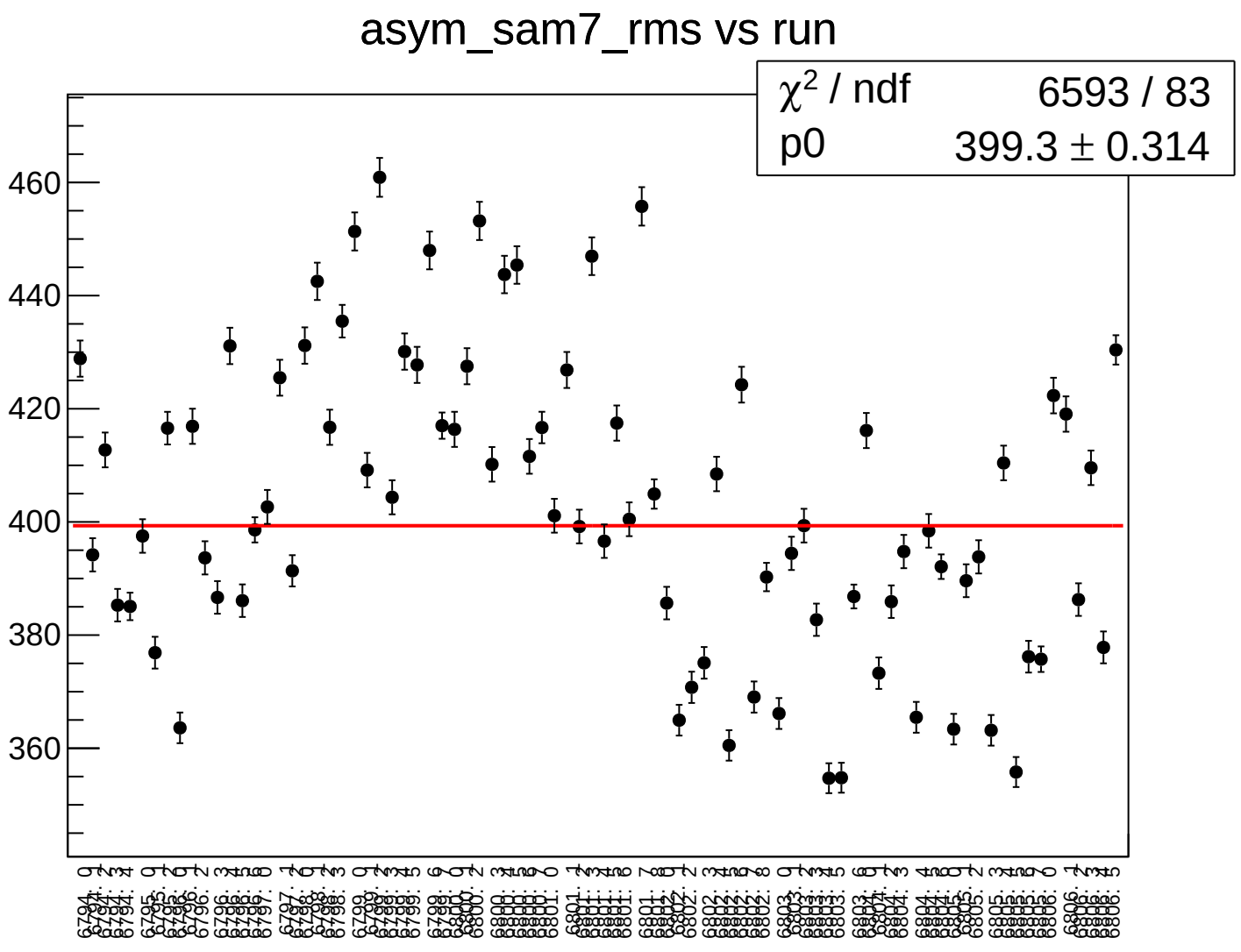

asym_sam6_mean vs run
χ² / ndf 69.04 / 83
p0 1393 ± 1435
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −969.5
Std Dev 1018
2
1
0
−1
−2

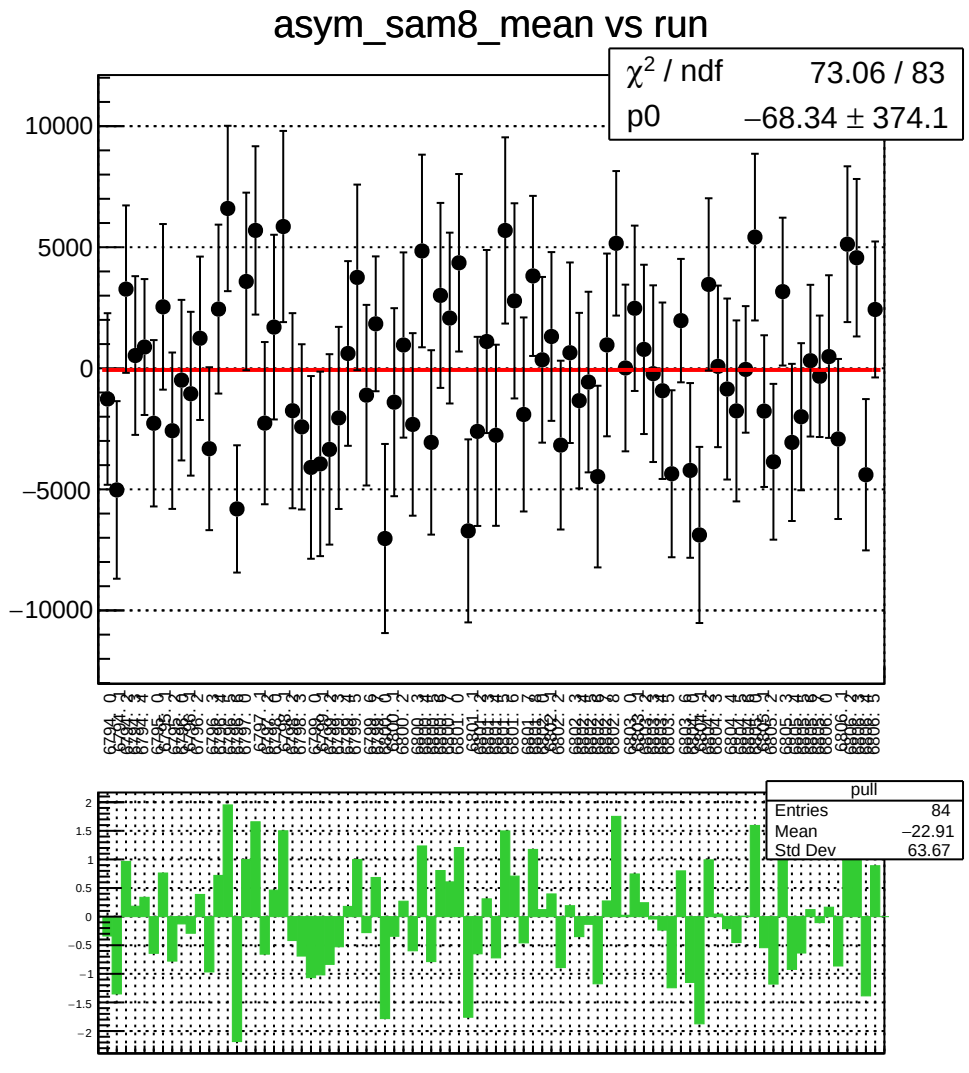

pull1D
Entries 84
Mean 0.001839
Std Dev 0.9066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

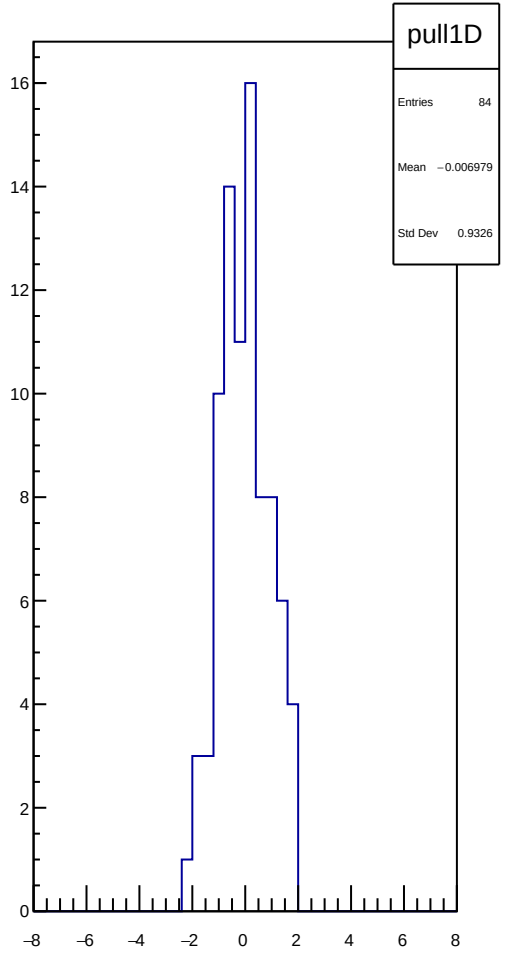

asym_sam6_rms vs run
χ² / ndf 1.757e+04 / 83
p0 1286 ± 1.015
1600
1500
1400
1300
1200
1100
1000

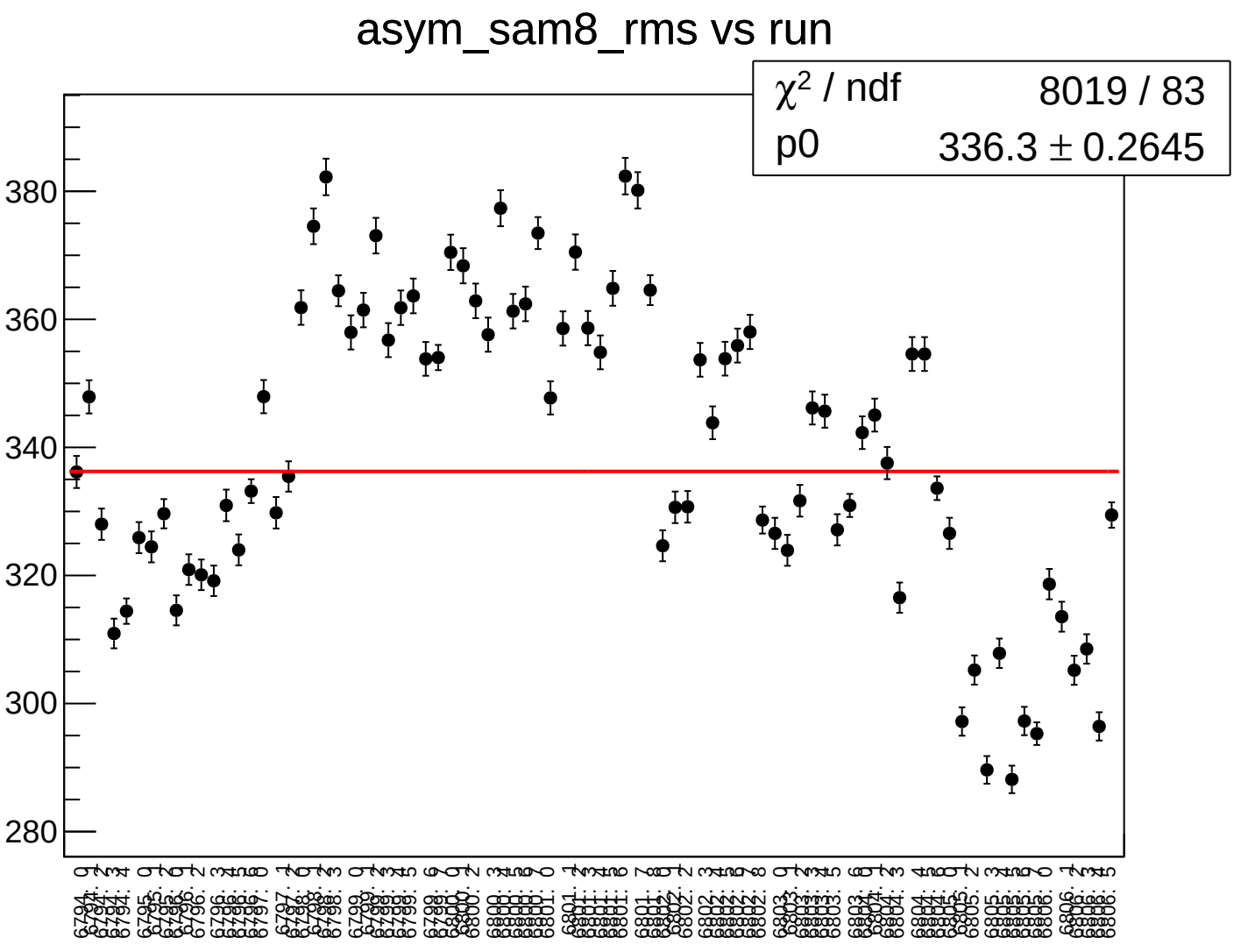

asym_sam7_mean vs run
χ² / ndf 84.33 / 83
p0 −341.5 ± 444.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 252
Std Dev 233.2
2
1
0
−1
−2
−3

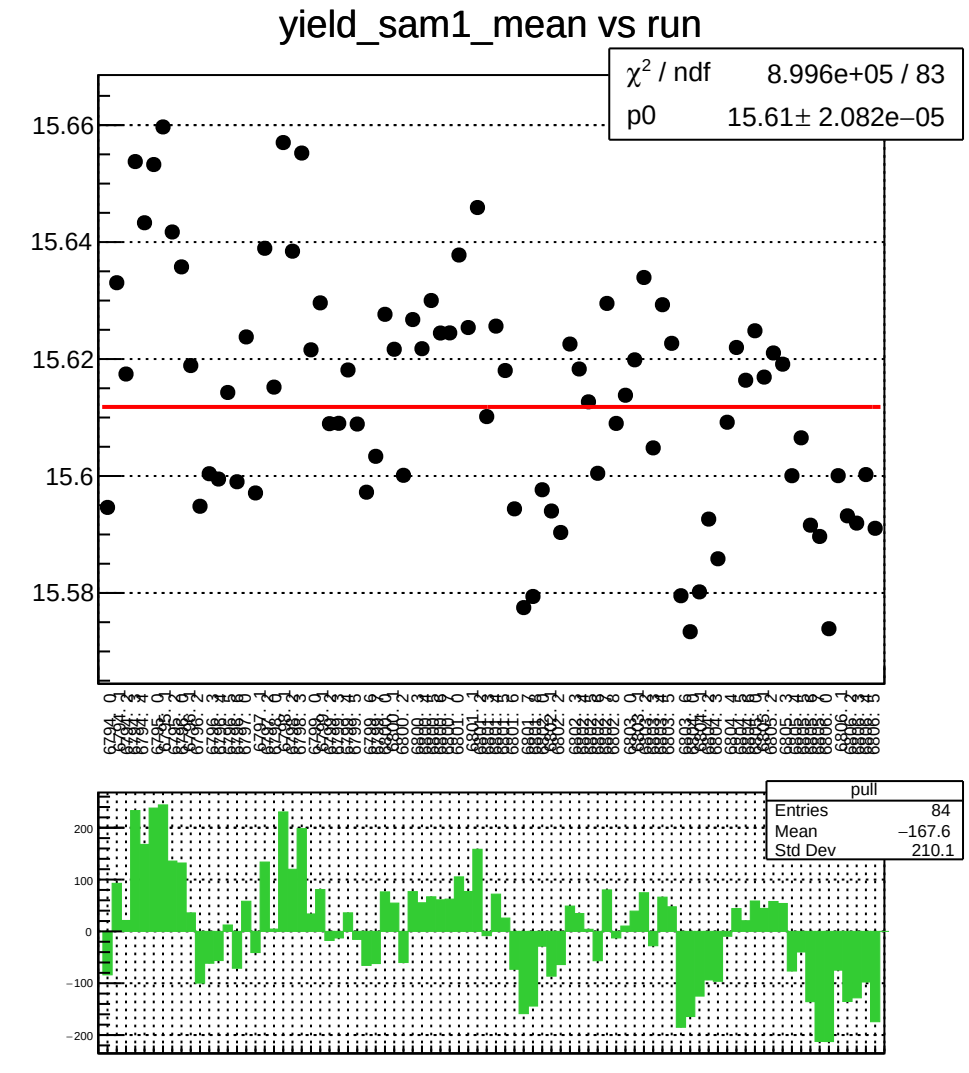

pull1D
Entries 84
Mean 0.003082
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

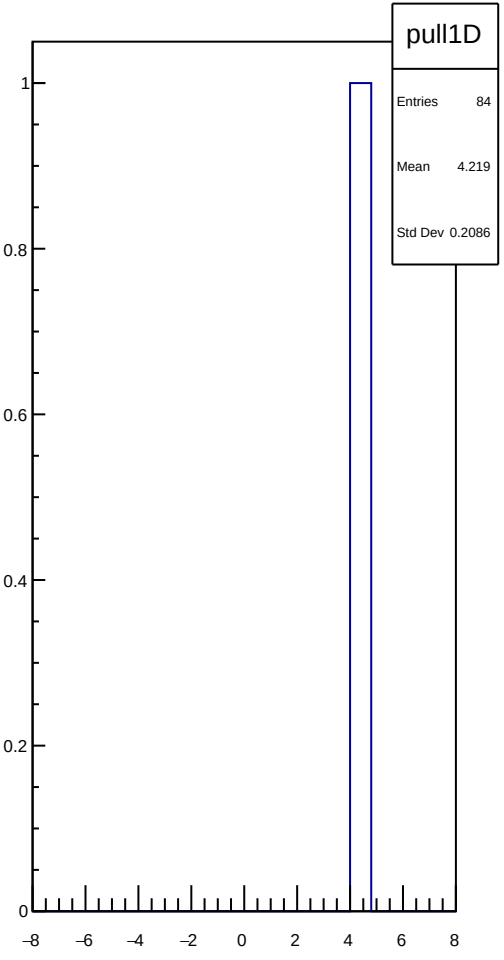

asym_sam7_rms vs run
χ^2 / ndf 6593 / 83
p0 399.3 ± 0.314
460
440
420
400
380
360

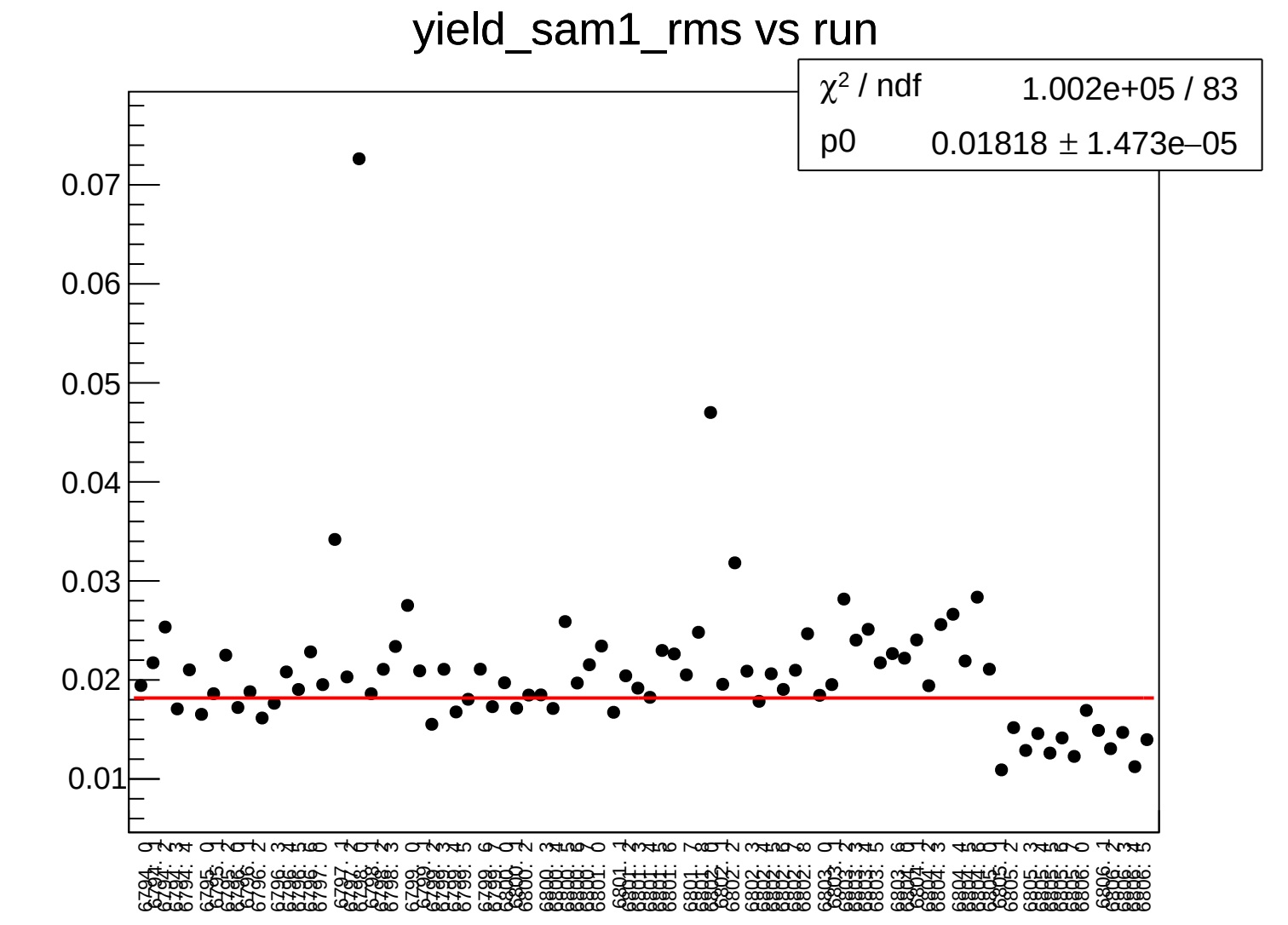

asym_sam8_mean vs run
χ² / ndf 73.06 / 83
p0 −68.34 ± 374.1
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −22.91
Std Dev 63.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

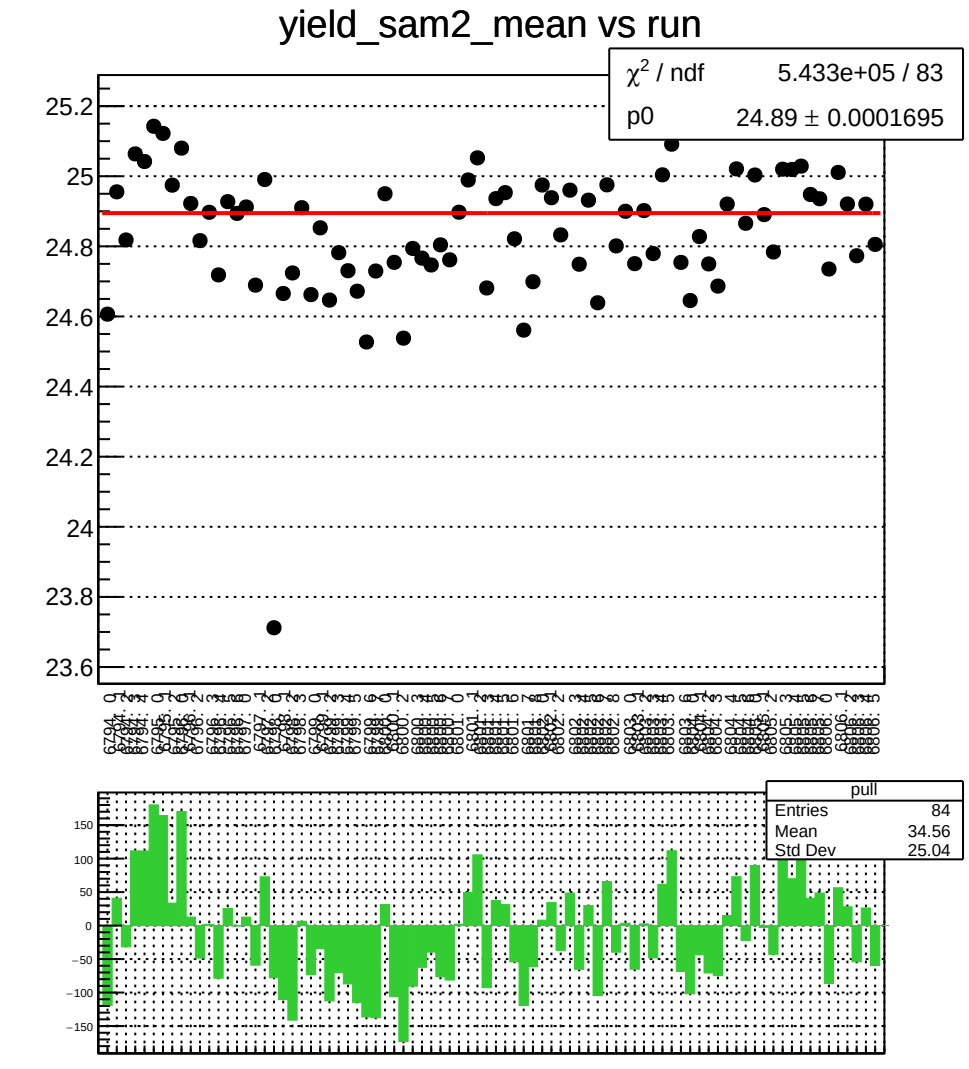

pull1D
Entries 84
Mean −0.006979
Std Dev 0.9326
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

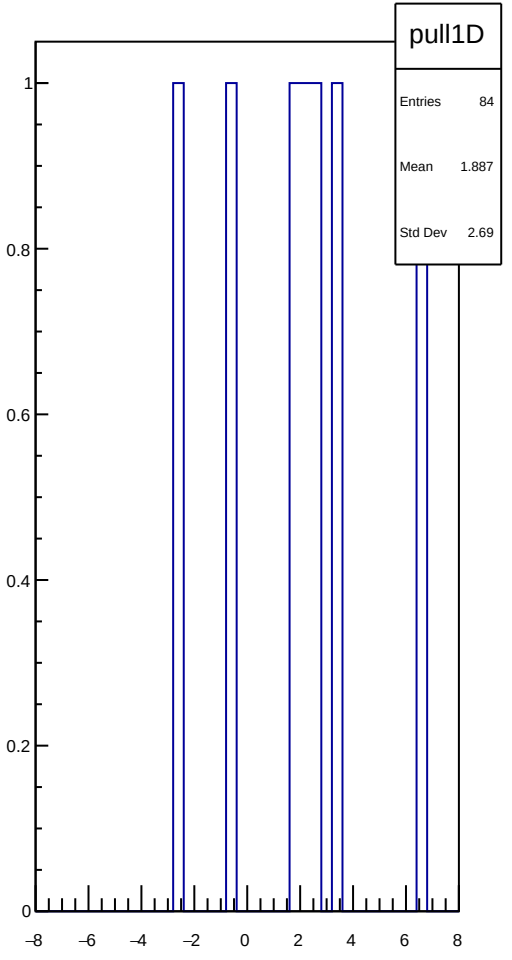

asym_sam8_rms vs run
χ^2 / ndf 8019 / 83
p0 336.3 ± 0.2645
380
360
340
320
300
280

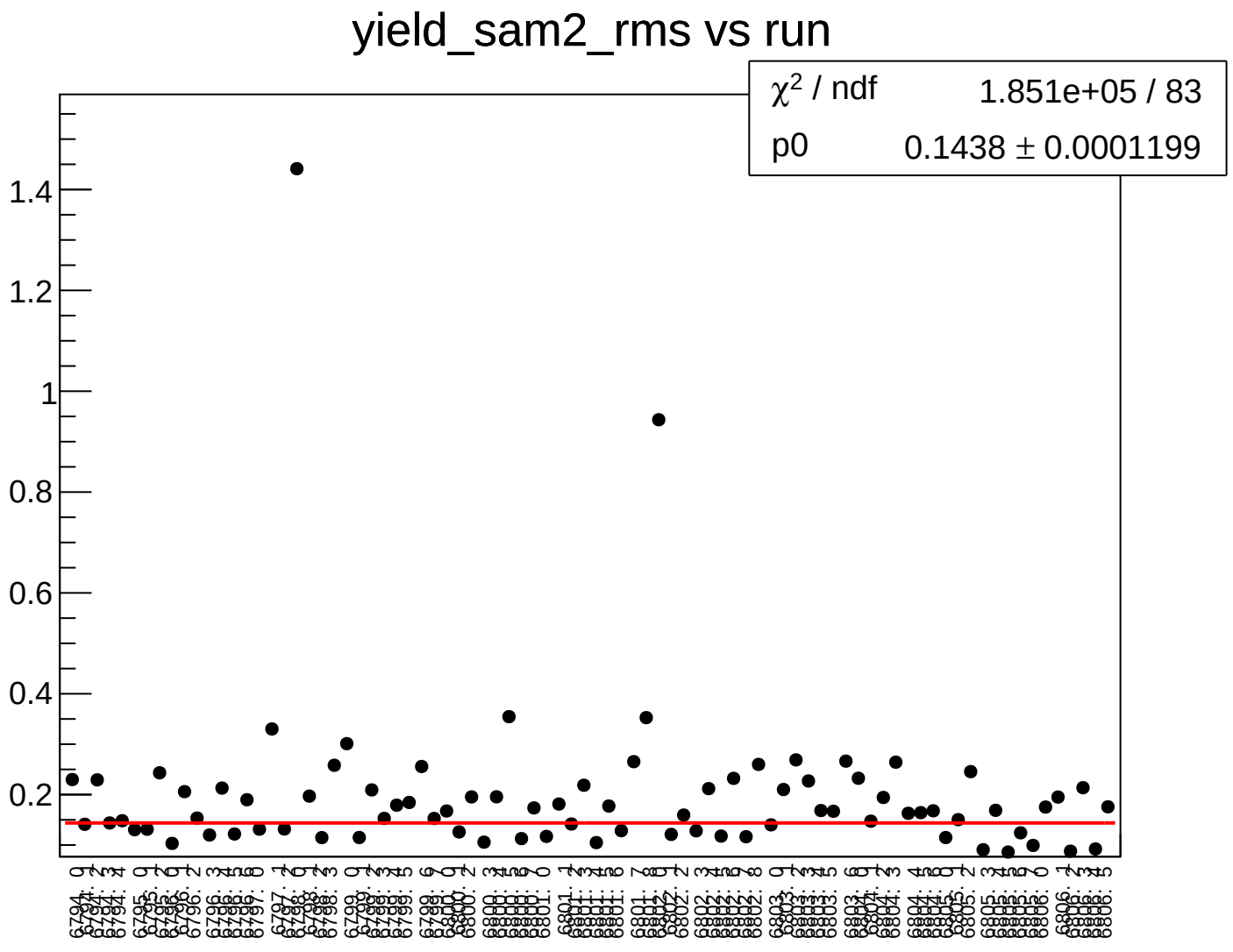

yield_sam1_mean vs run
χ² / ndf 8.996e+05 / 83
p0 15.61± 2.082e−05
15.66
15.64
15.62
15.6
15.58
pull
Entries 84
Mean −167.6
Std Dev 210.1
200
100
0
−100
−200

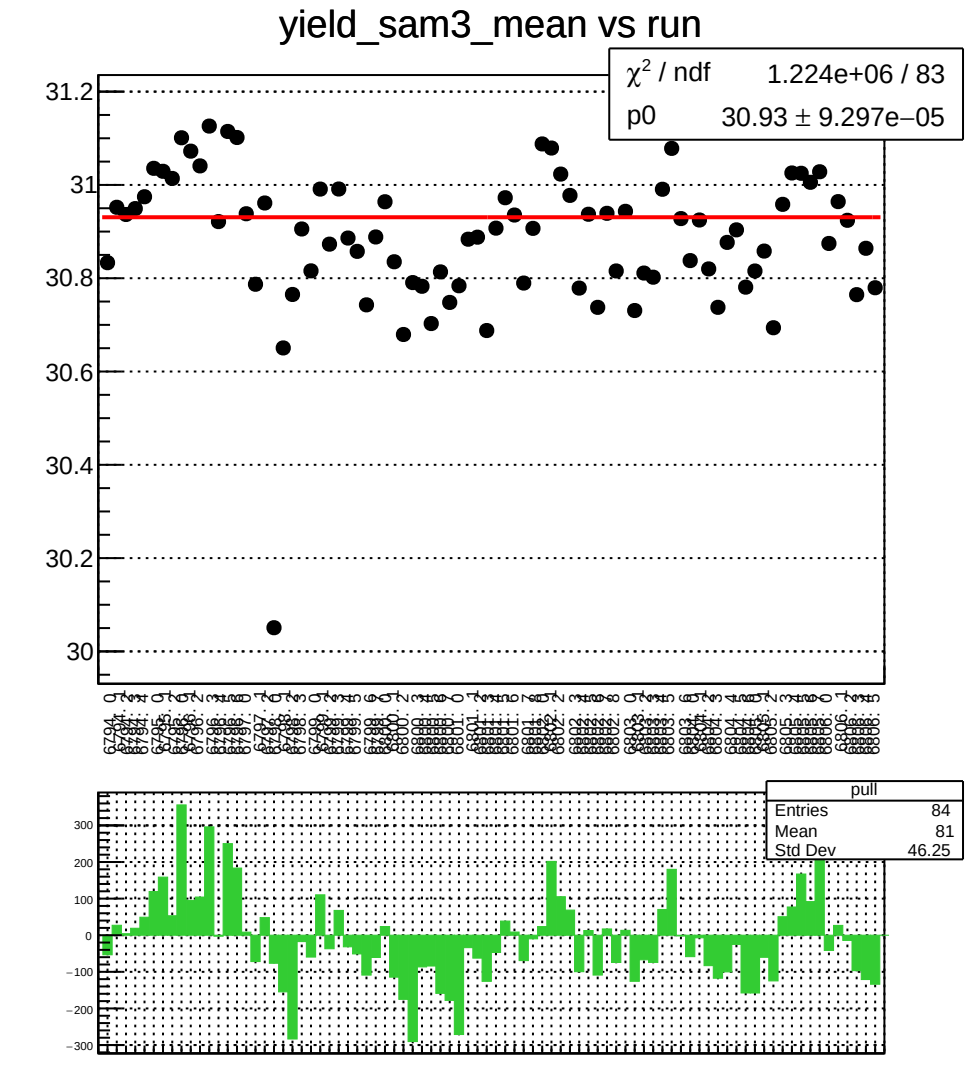

pull1D
Entries 84
Mean 4.219
Std Dev 0.2086
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

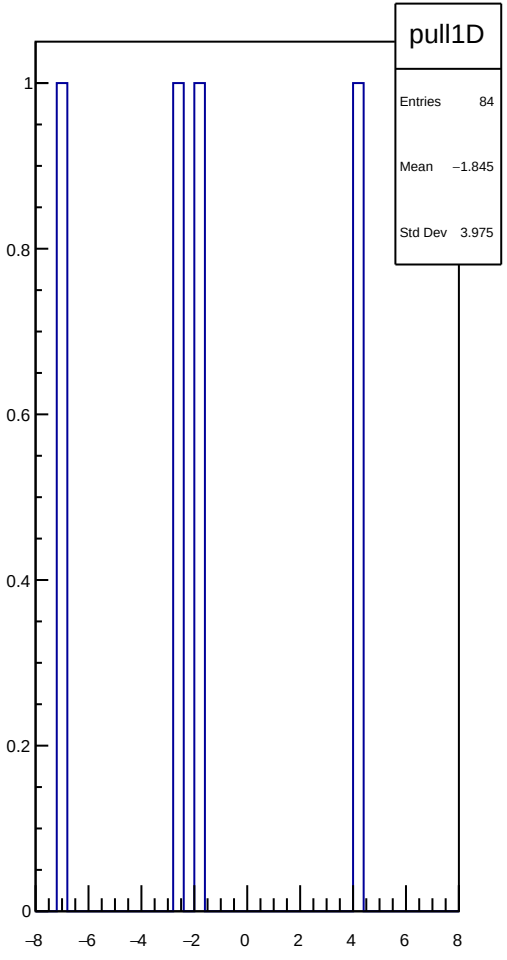

yield_sam1_rms vs run
χ² / ndf 1.002e+05 / 83
p0 0.01818 ± 1.473e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

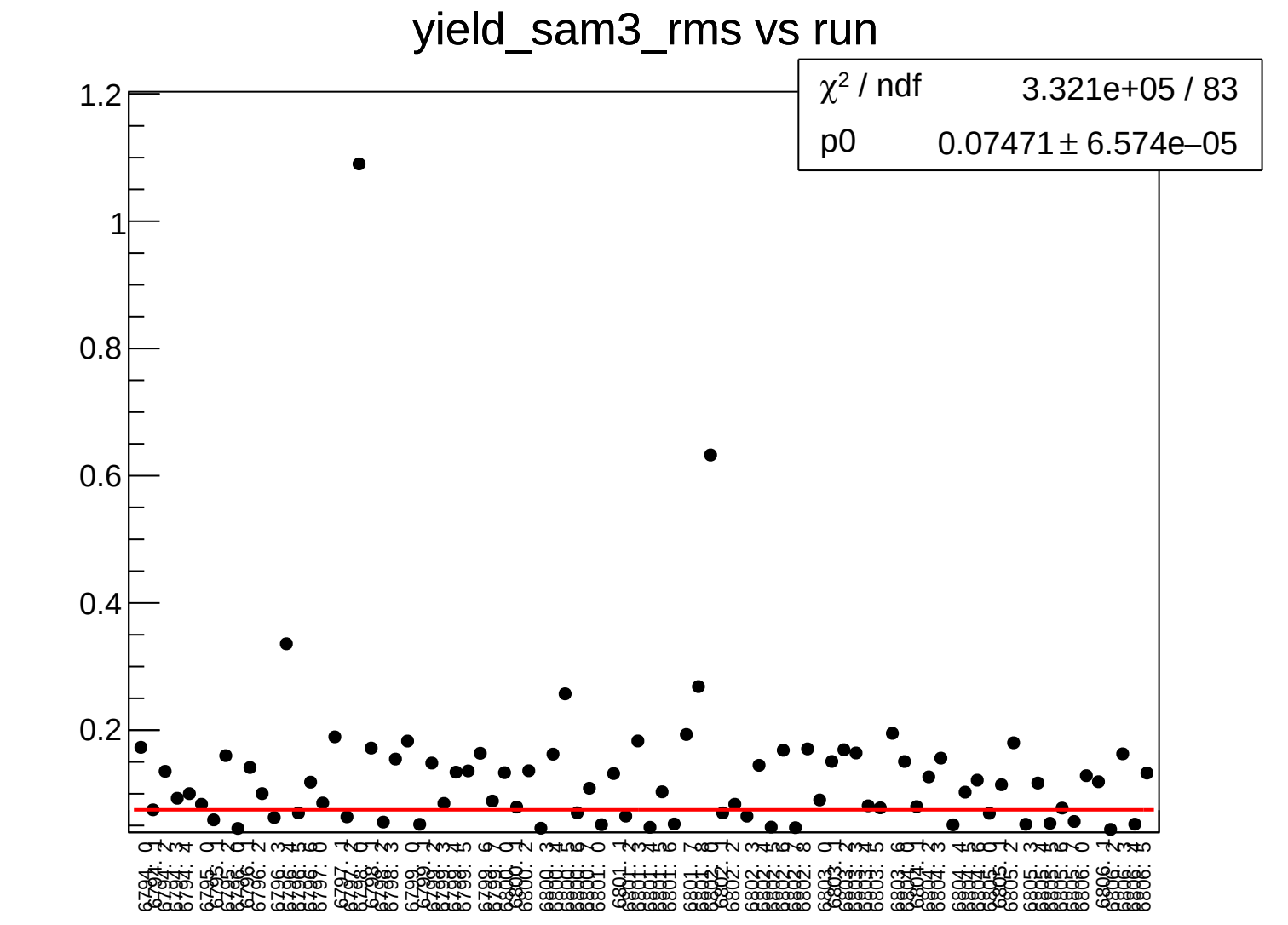

yield_sam2_mean vs run
χ² / ndf 5.433e+05 / 83
p0 24.89 ± 0.0001695
25.2
25
24.8
24.6
24.4
24.2
24
23.8
23.6
pull
Entries 84
Mean 34.56
Std Dev 25.04
150
100
50
0
−50
−100
−150

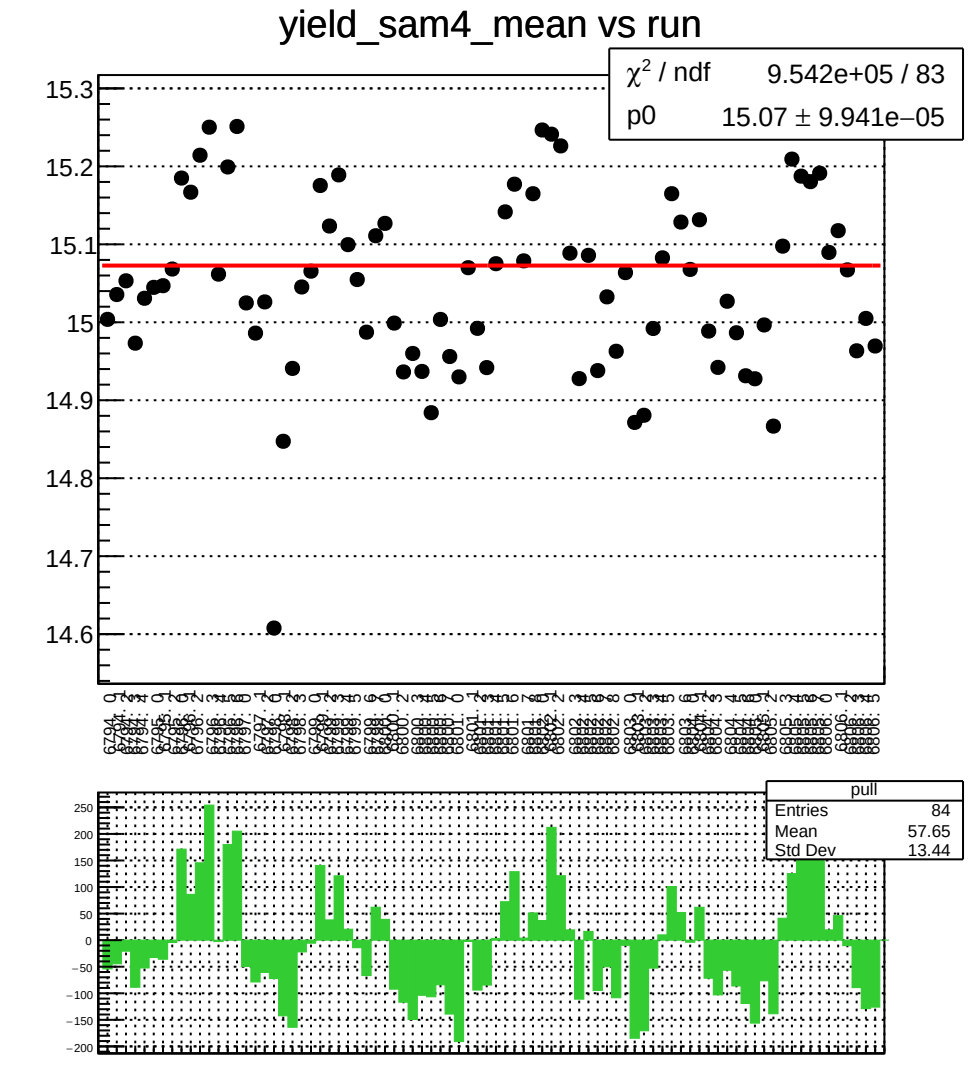

pull1D
Entries 84
Mean 1.887
Std Dev 2.69
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

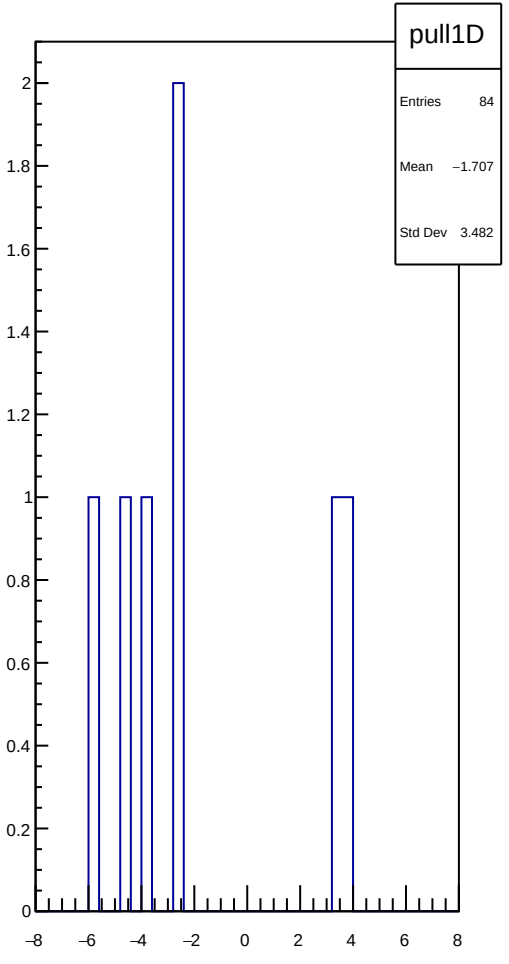

yield_sam2_rms vs run
χ^2 / ndf 1.851e+05 / 83
p0 0.1438 ± 0.0001199
1.4
1.2
1
0.8
0.6
0.4
0.2

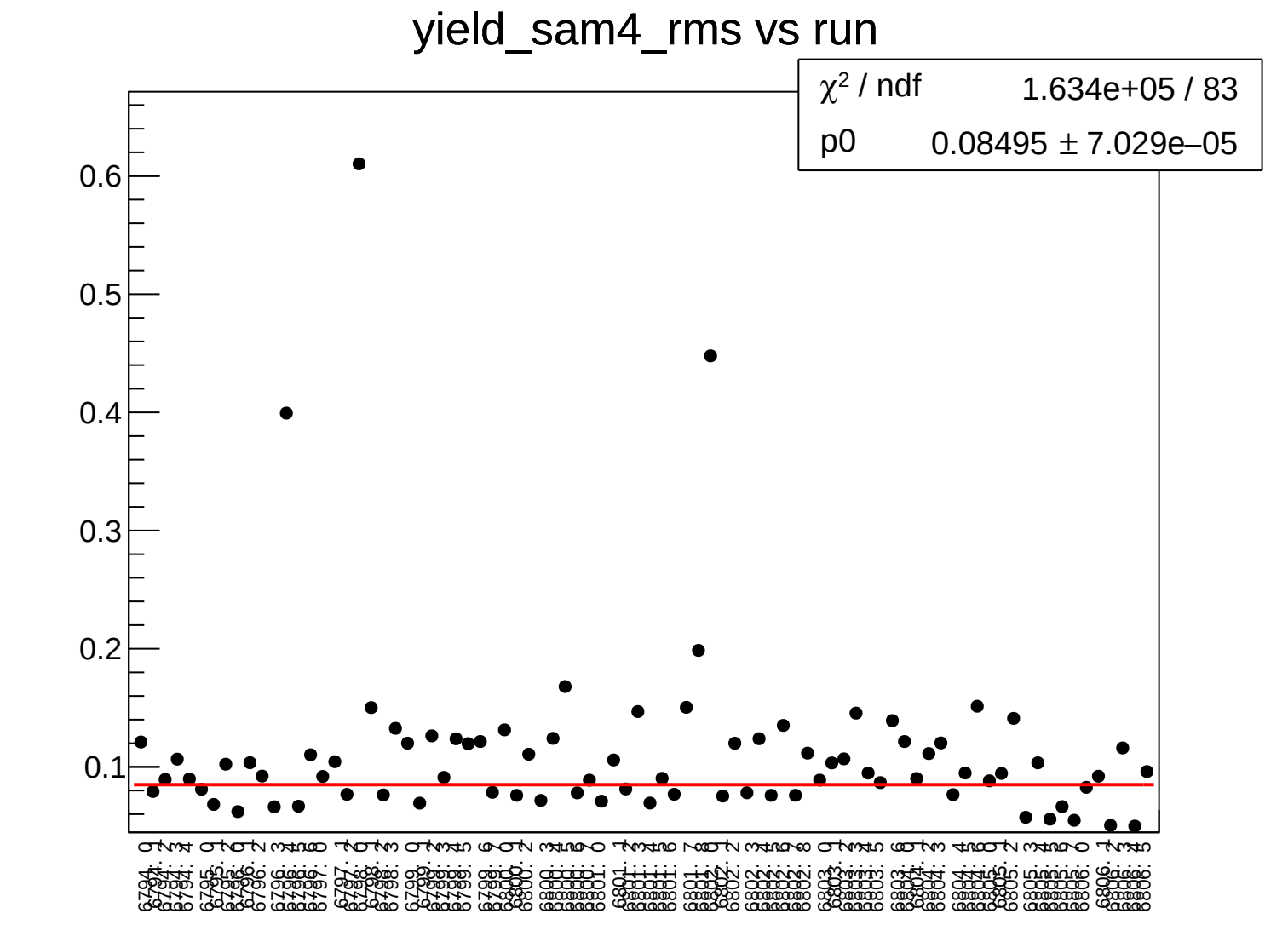

yield_sam3_mean vs run
χ² / ndf 1.224e+06 / 83
p0 30.93 ± 9.297e−05
31.2
31
30.8
30.6
30.4
30.2
30
pull
Entries 84
Mean 81
Std Dev 46.25
300
200
100
0
−100
−200
−300

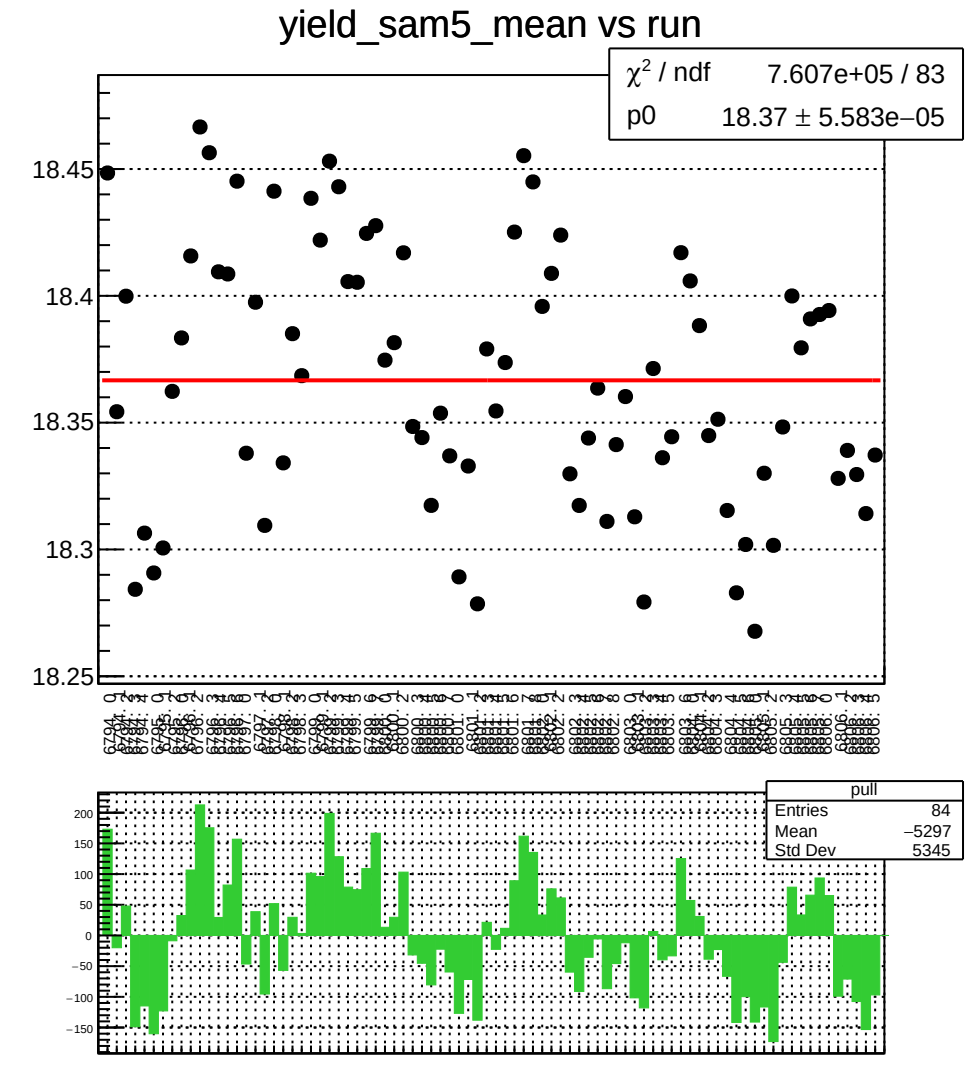

pull1D
Entries 84
Mean −1.845
Std Dev 3.975
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

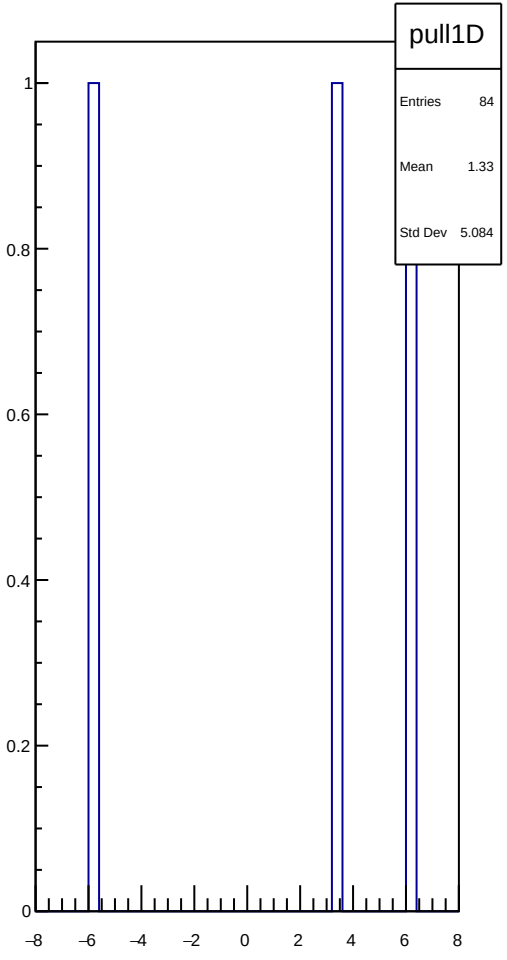

yield_sam3_rms vs run
χ^2 / ndf 3.321e+05 / 83
p0 0.07471 ± 6.574e−05
1.2
1
0.8
0.6
0.4
0.2

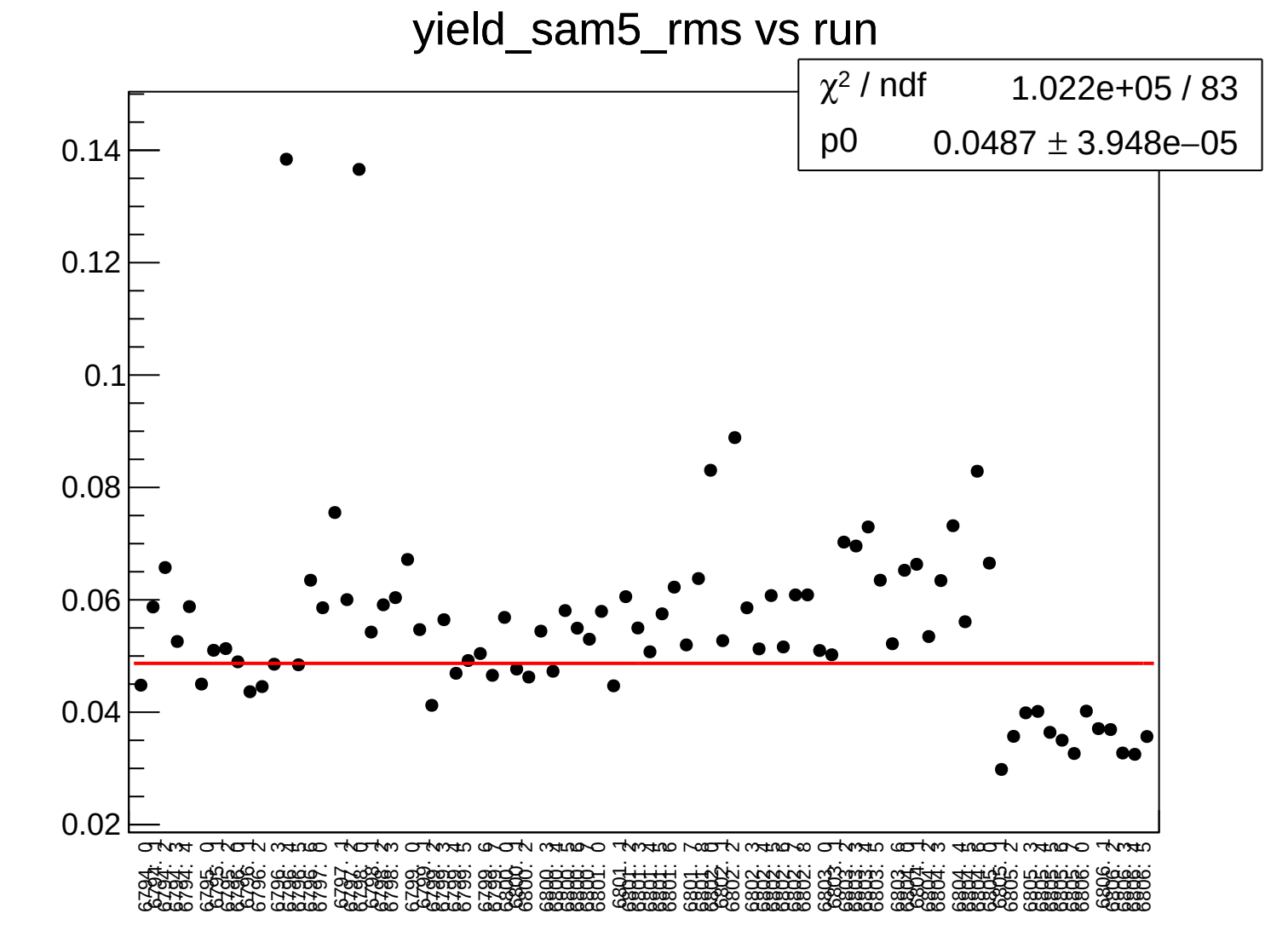

yield_sam4_mean vs run
χ² / ndf 9.542e+05 / 83
p0 15.07 ± 9.941e−05
15.3
15.2
15.1
15
14.9
14.8
14.7
14.6
pull
Entries 84
Mean 57.65
Std Dev 13.44
250
200
150
100
50
0
−50
−100
−150
−200

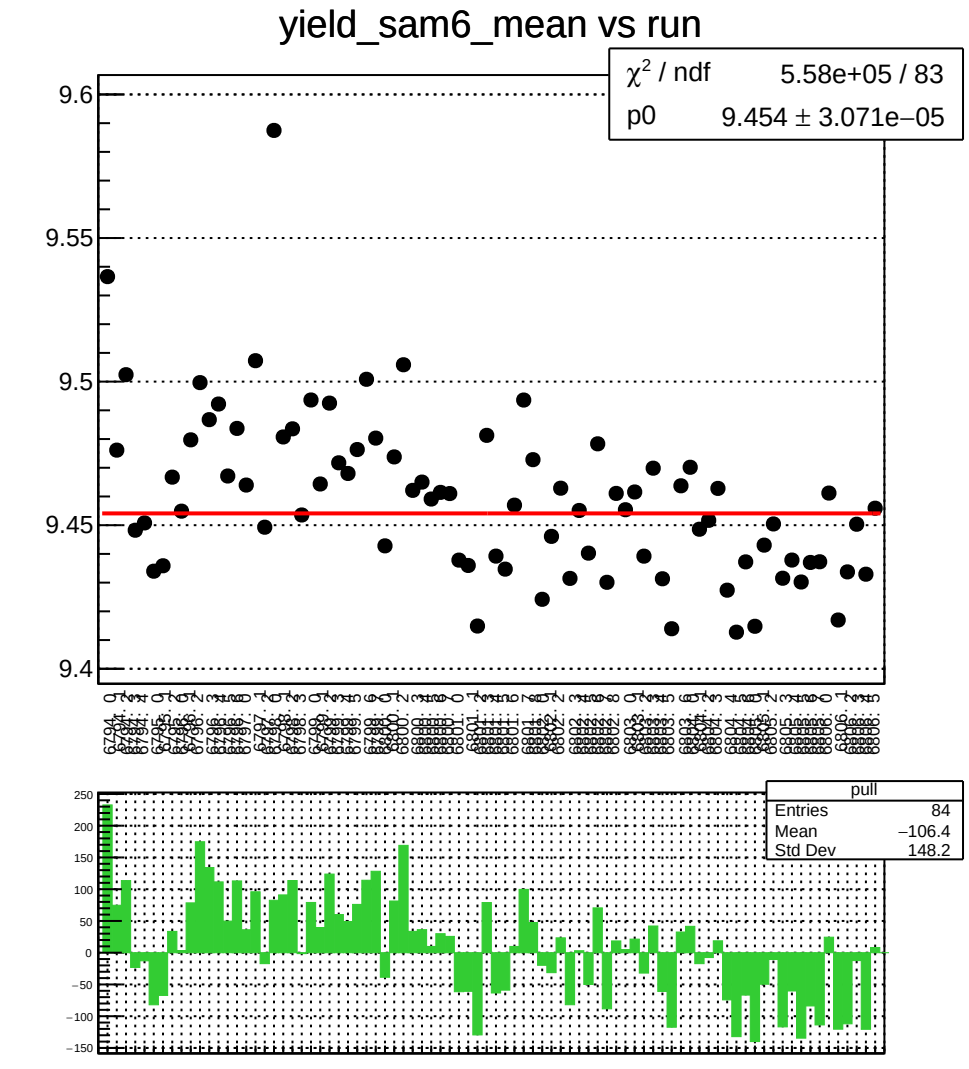

pull1D
Entries 84
Mean −1.707
Std Dev 3.482
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

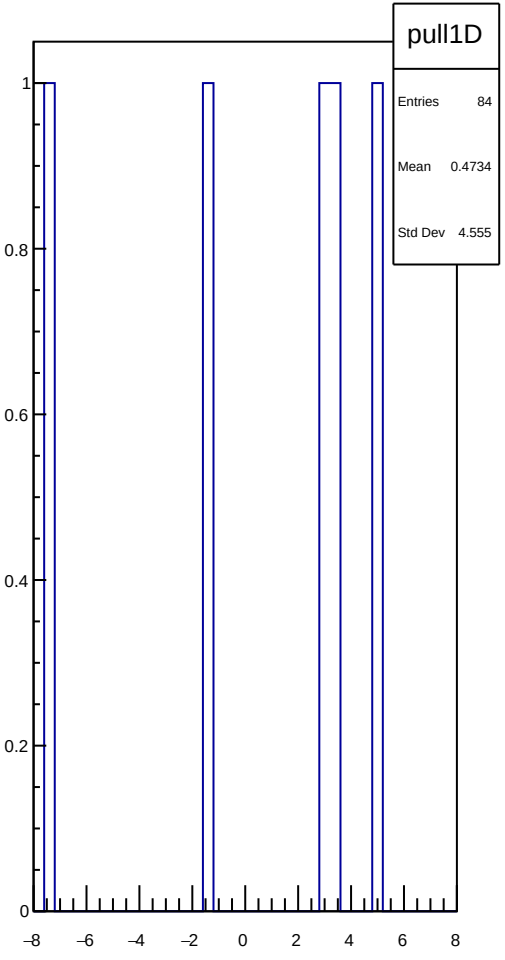

yield_sam4_rms vs run
χ² / ndf 1.634e+05 / 83
p0 0.08495 ± 7.029e−05
0.6
0.5
0.4
0.3
0.2
0.1

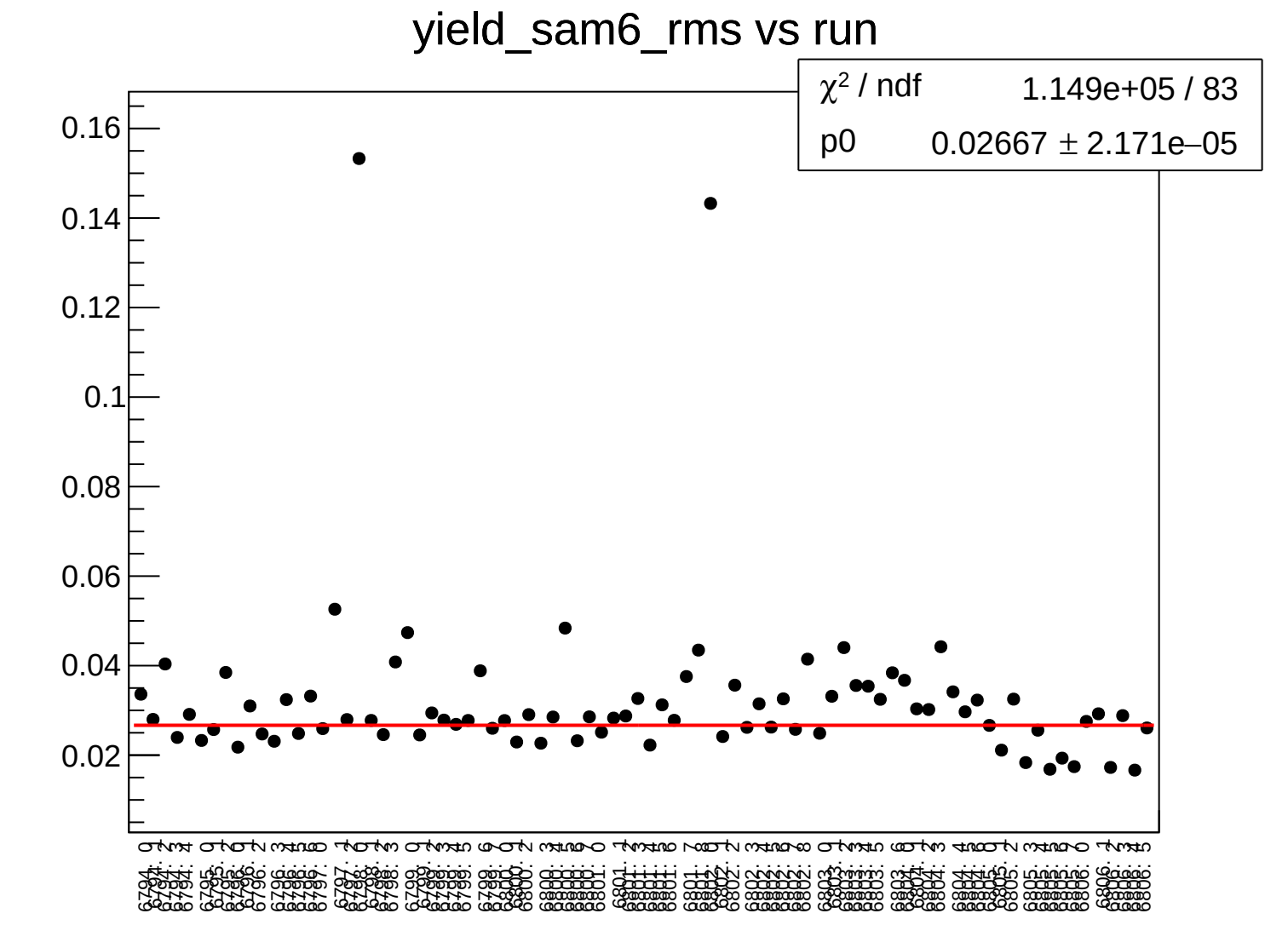

yield_sam5_mean vs run
χ² / ndf 7.607e+05 / 83
p0 18.37 ± 5.583e−05
18.45
18.4
18.35
18.3
18.25
pull
Entries 84
Mean −5297
Std Dev 5345
200
150
100
50
0
−50
−100
−150

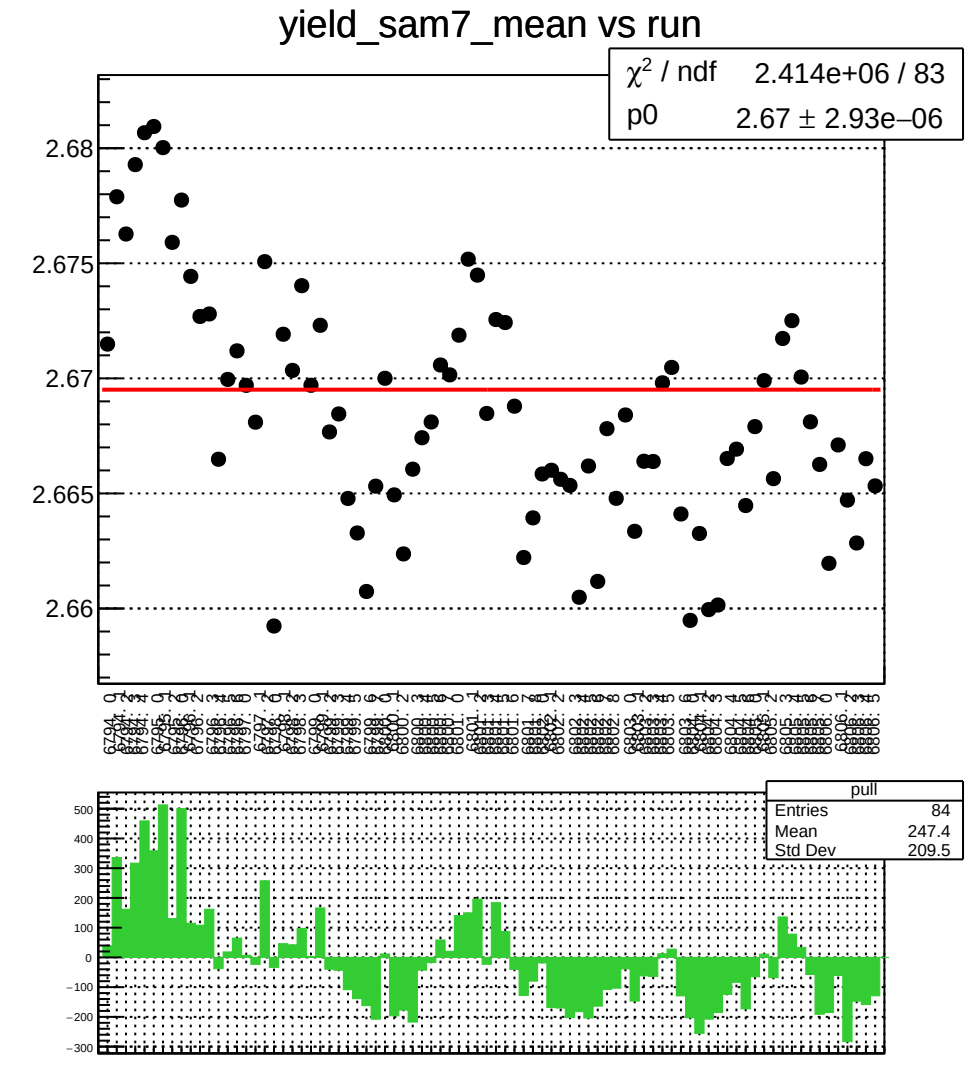

pull1D
Entries 84
Mean 1.33
Std Dev 5.084
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

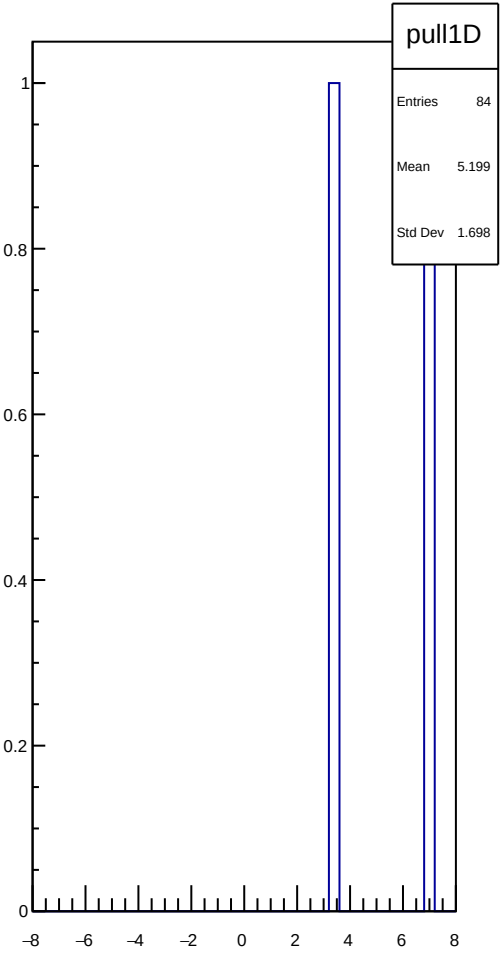

yield_sam5_rms vs run
χ² / ndf 1.022e+05 / 83
p0 0.0487 ± 3.948e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

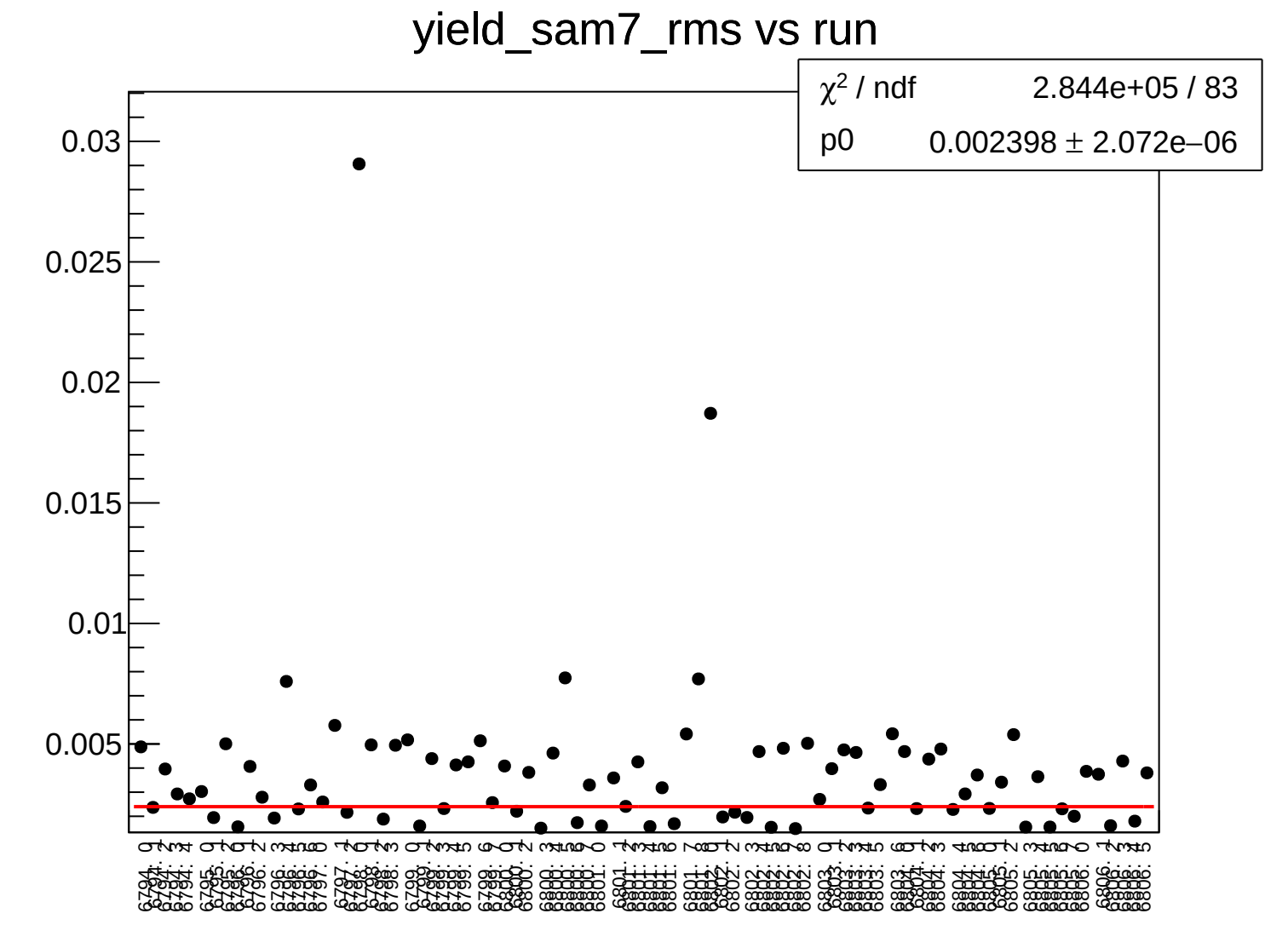

yield_sam6_mean vs run
χ² / ndf 5.58e+05 / 83
p0 9.454 ± 3.071e−05
9.6
9.55
9.5
9.45
9.4
pull
Entries 84
Mean −106.4
Std Dev 148.2
250
200
150
100
50
0
−50
−100
−150

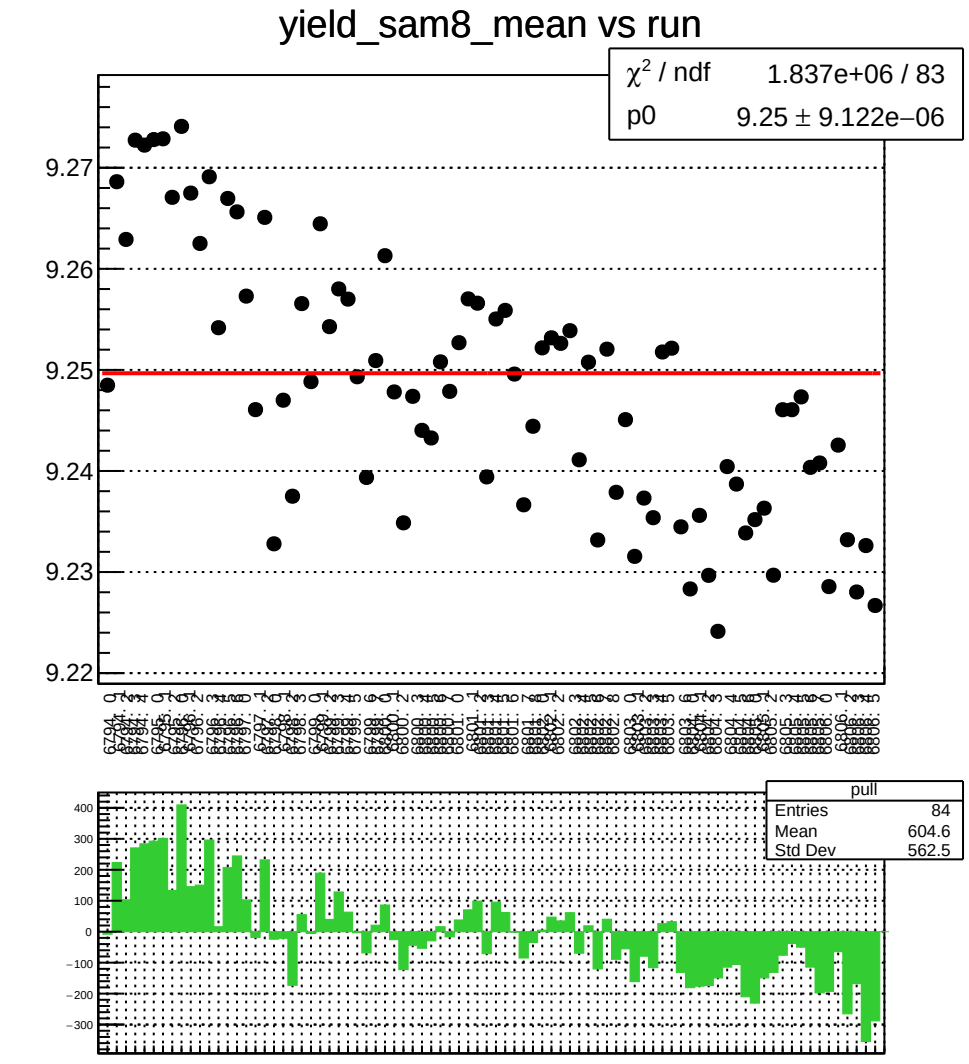

pull1D
Entries 84
Mean 0.4734
Std Dev 4.555
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

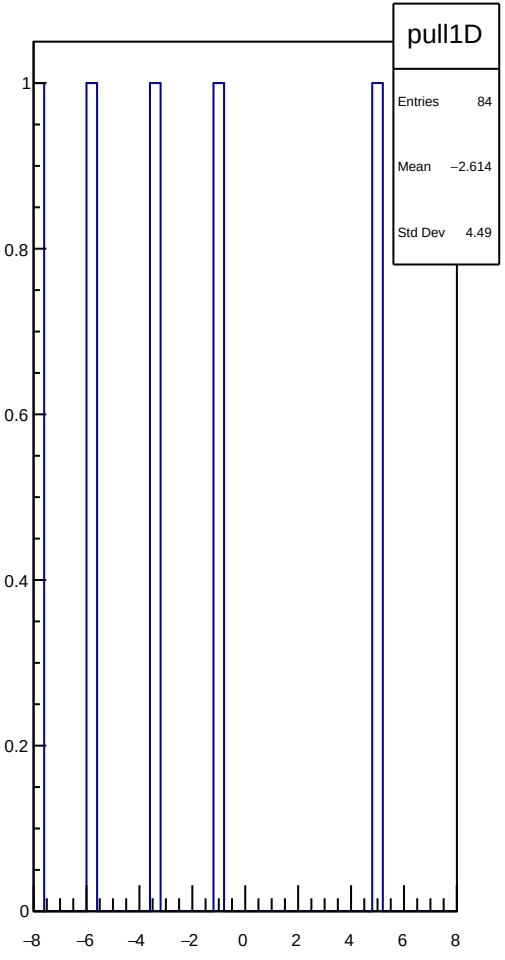

yield_sam6_rms vs run
χ² / ndf 1.149e+05 / 83
p0 0.02667 ± 2.171e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

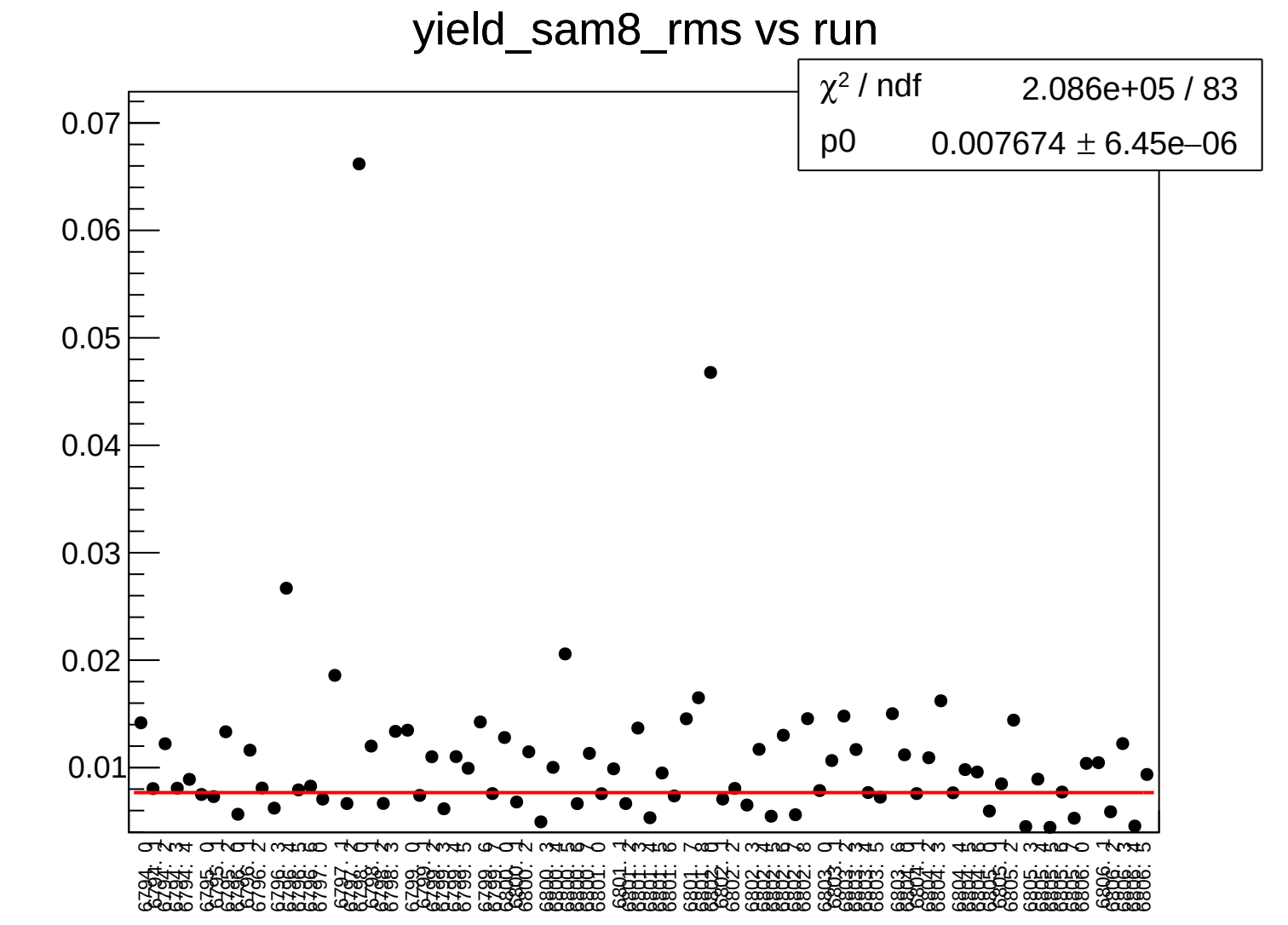

yield_sam7_mean vs run
χ² / ndf 2.414e+06 / 83
p0 2.67 ± 2.93e−06
2.68
2.675
2.67
2.665
2.66
pull
Entries 84
Mean 247.4
Std Dev 209.5
500
400
300
200
100
0
−100
−200
−300

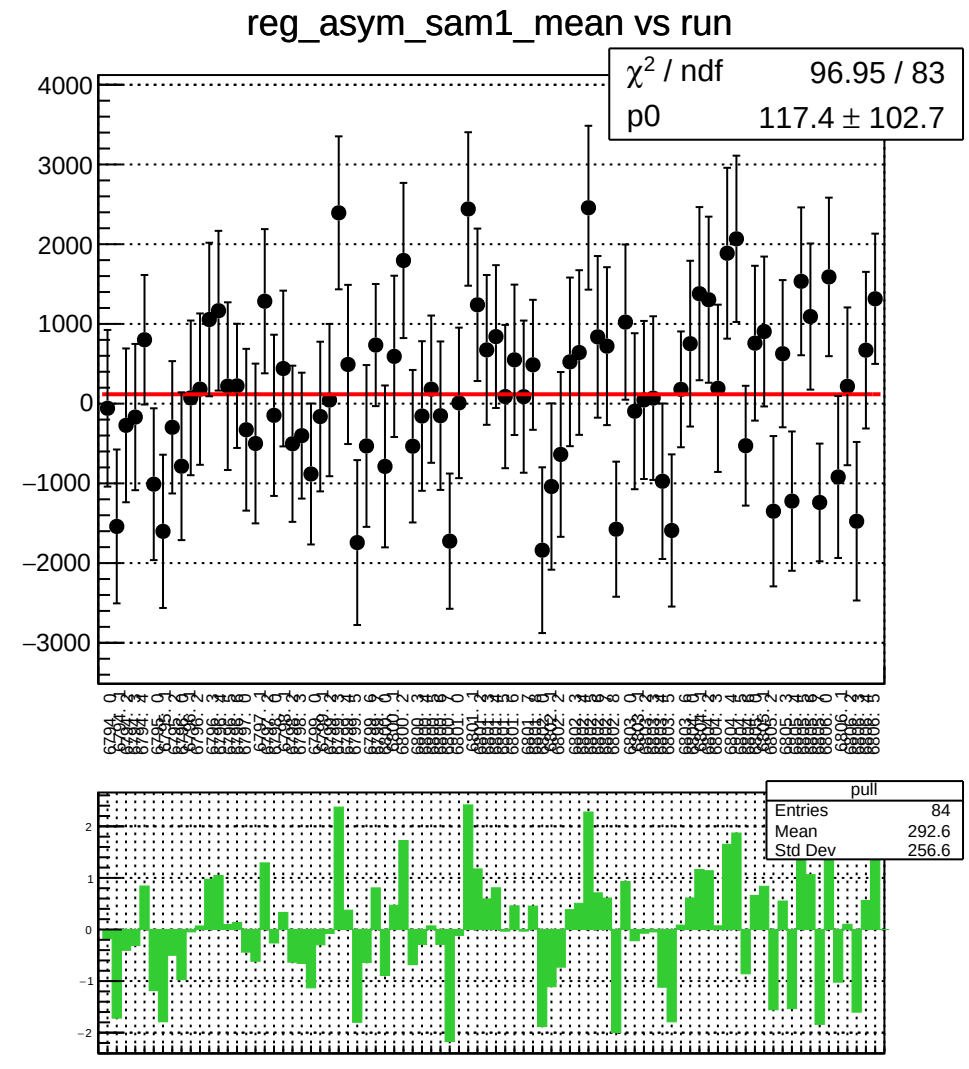

pull1D
Entries 84
Mean 5.199
Std Dev 1.698
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

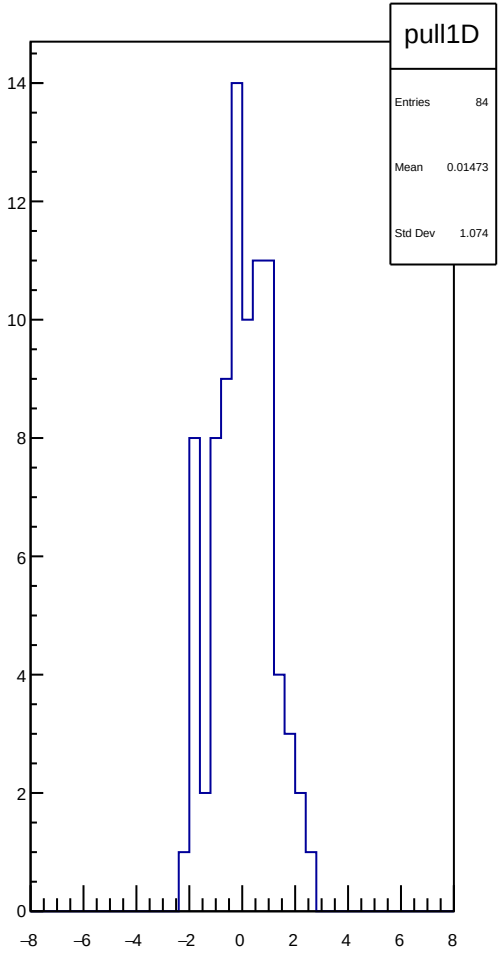

yield_sam7_rms vs run
χ² / ndf 2.844e+05 / 83
p0 0.002398 ± 2.072e−06
0.03
0.025
0.02
0.015
0.01
0.005

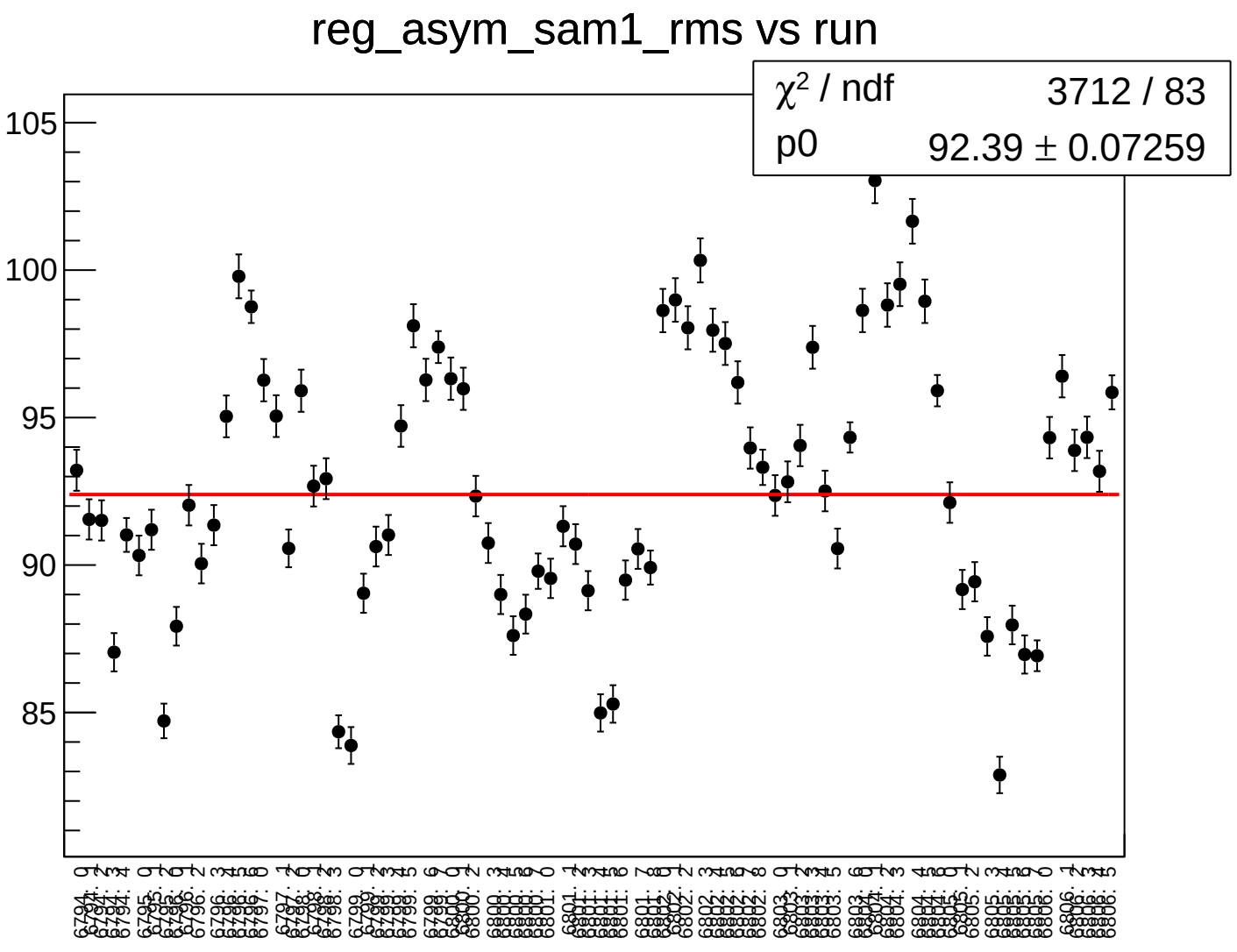

yield_sam8_mean vs run
χ² / ndf 1.837e+06 / 83
p0 9.25 ± 9.122e−06
9.27
9.26
9.25
9.24
9.23
9.22
pull
Entries 84
Mean 604.6
Std Dev 562.5
400
300
200
100
0
−100
−200
−300

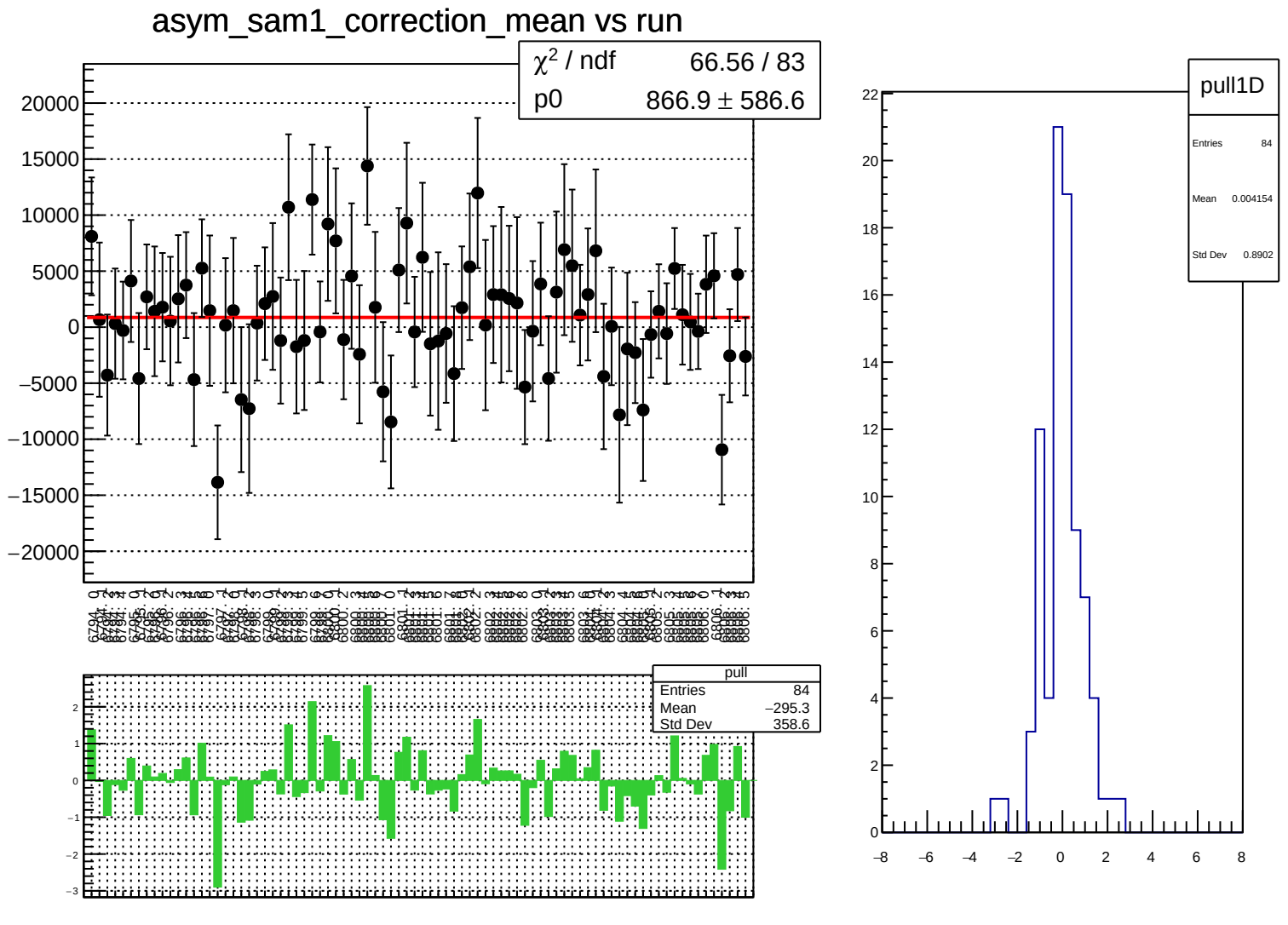

pull1D
Entries 84
Mean −2.614
Std Dev 4.49
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

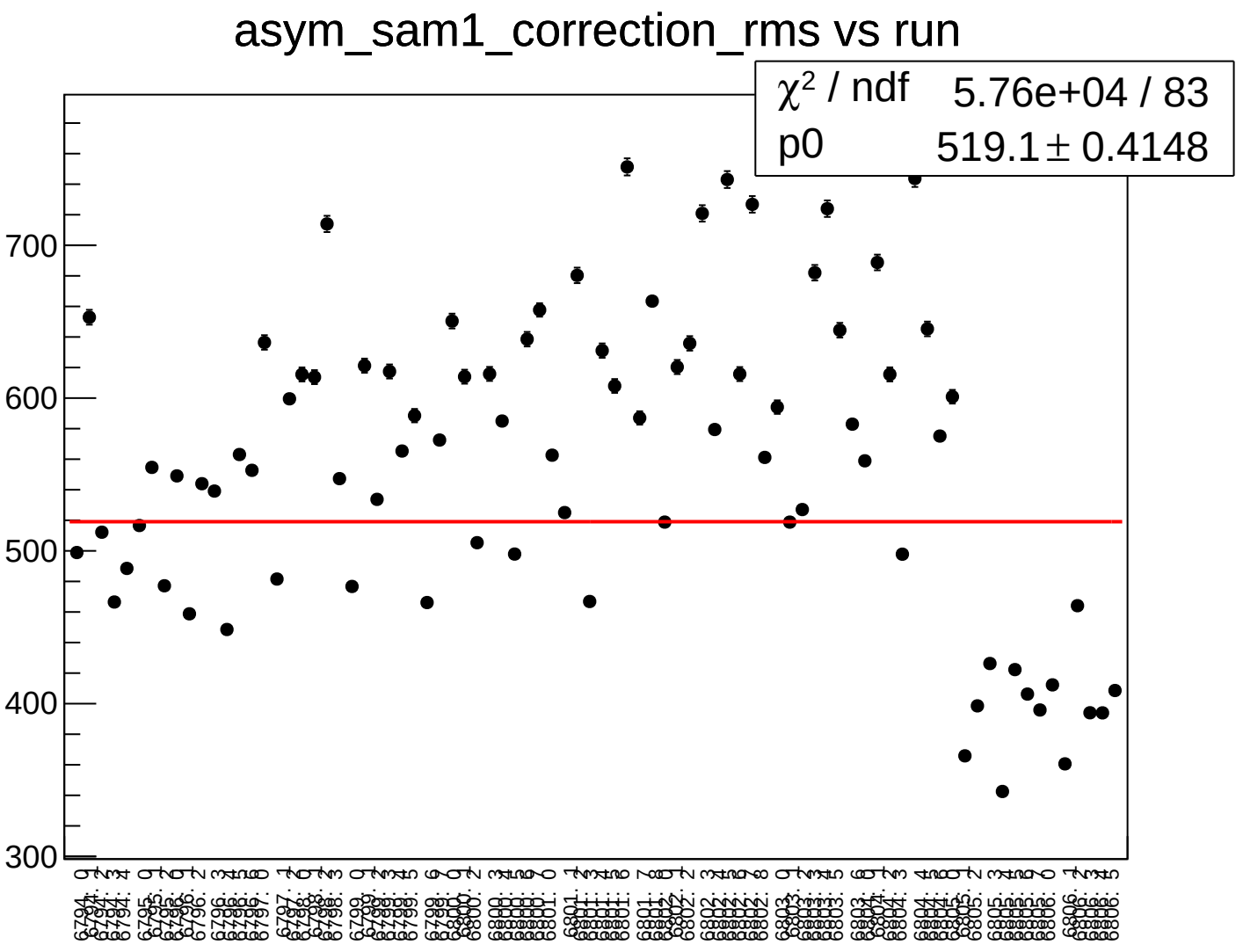

yield_sam8_rms vs run
χ² / ndf 2.086e+05 / 83
p0 0.007674 ± 6.45e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

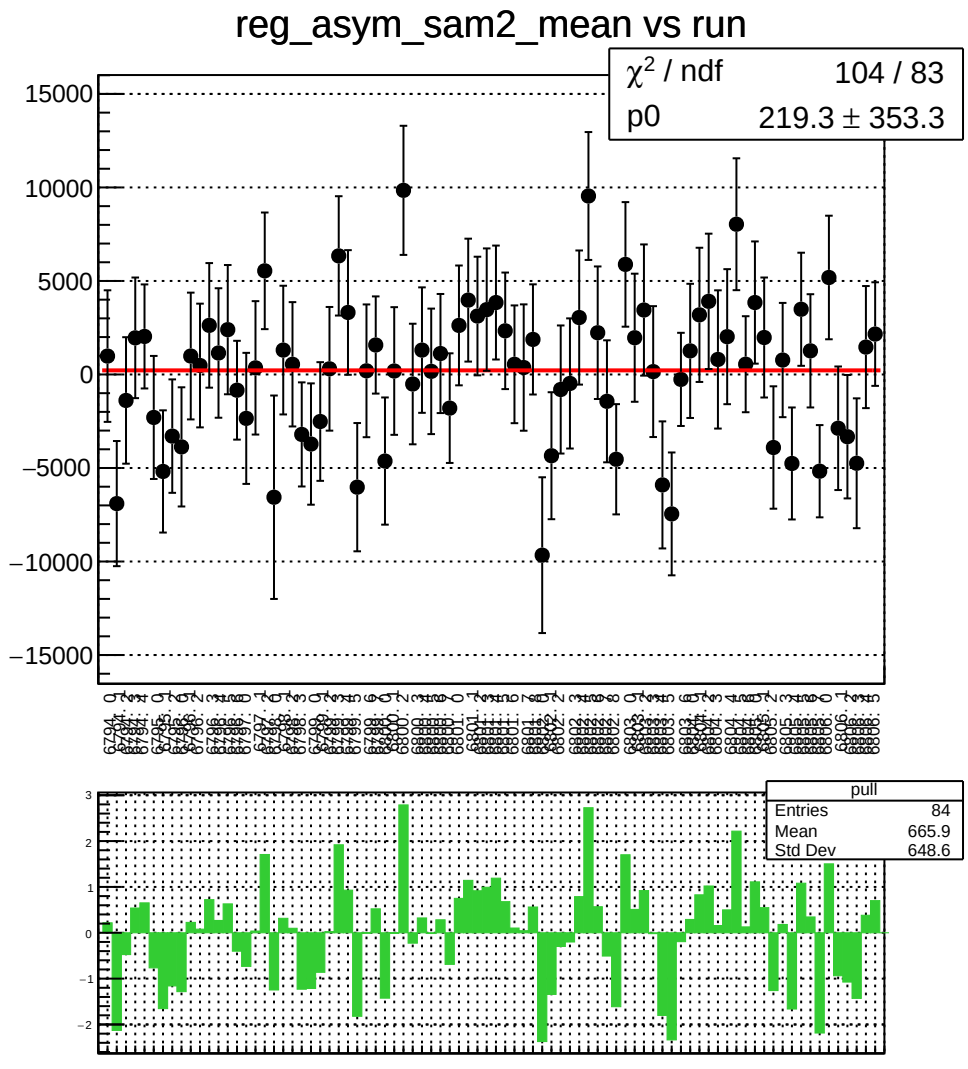

reg_asym_sam1_mean vs run
χ² / ndf 96.95 / 83
p0 117.4 ± 102.7
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 292.6
Std Dev 256.6
2
1
0
−1
−2

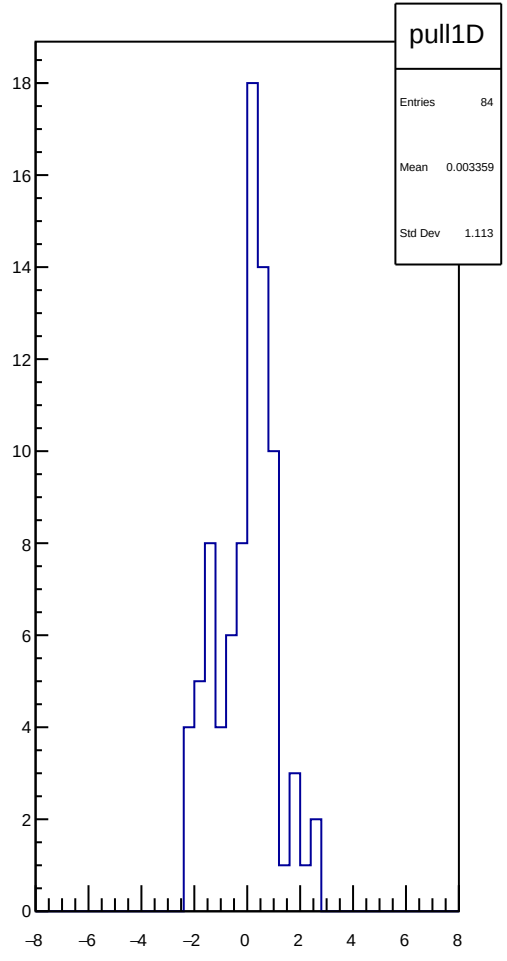

pull1D
Entries 84
Mean 0.01473
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

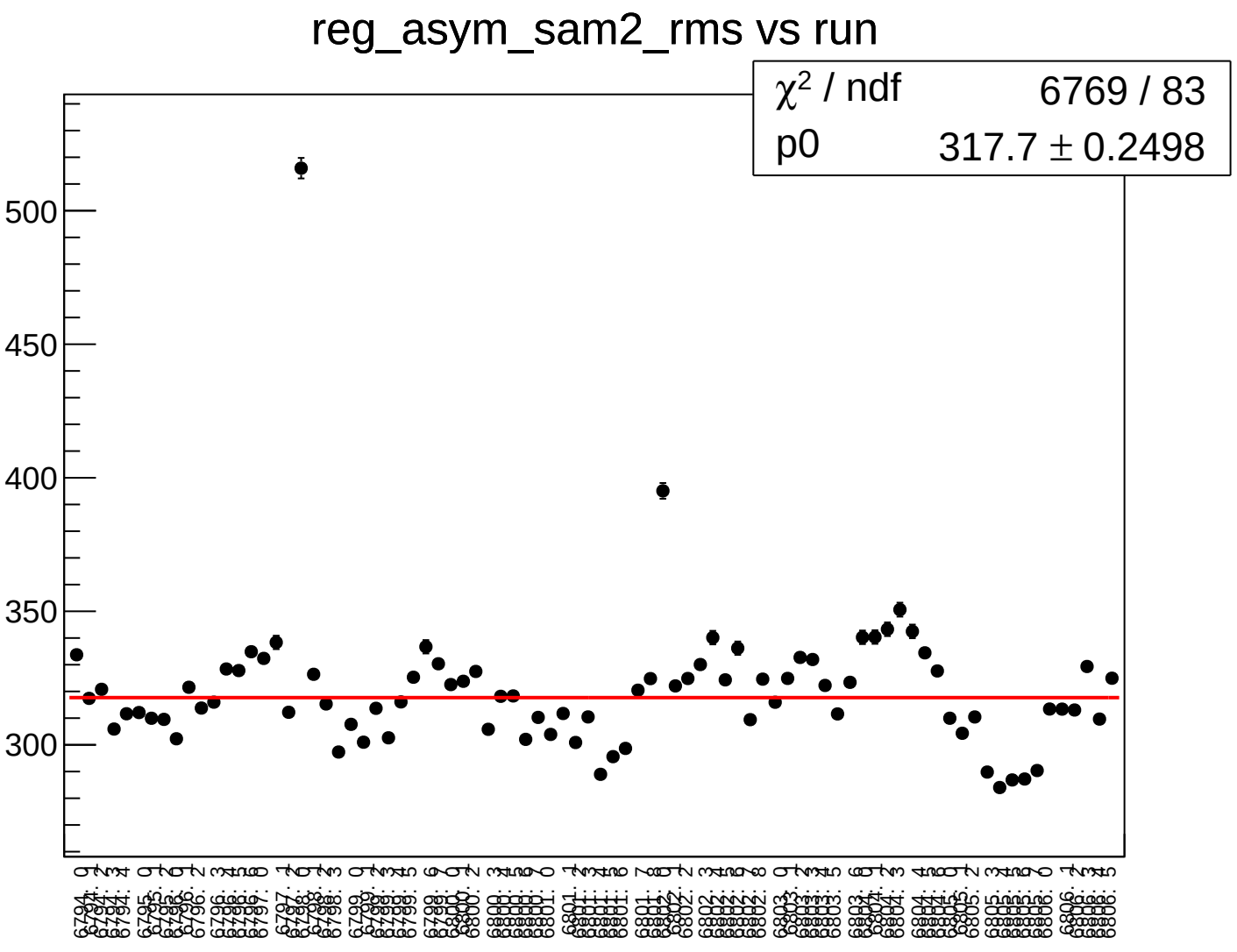

reg_asym_sam1_rms vs run
χ² / ndf 3712 / 83
p0 92.39 ± 0.07259
105
100
95
90
85

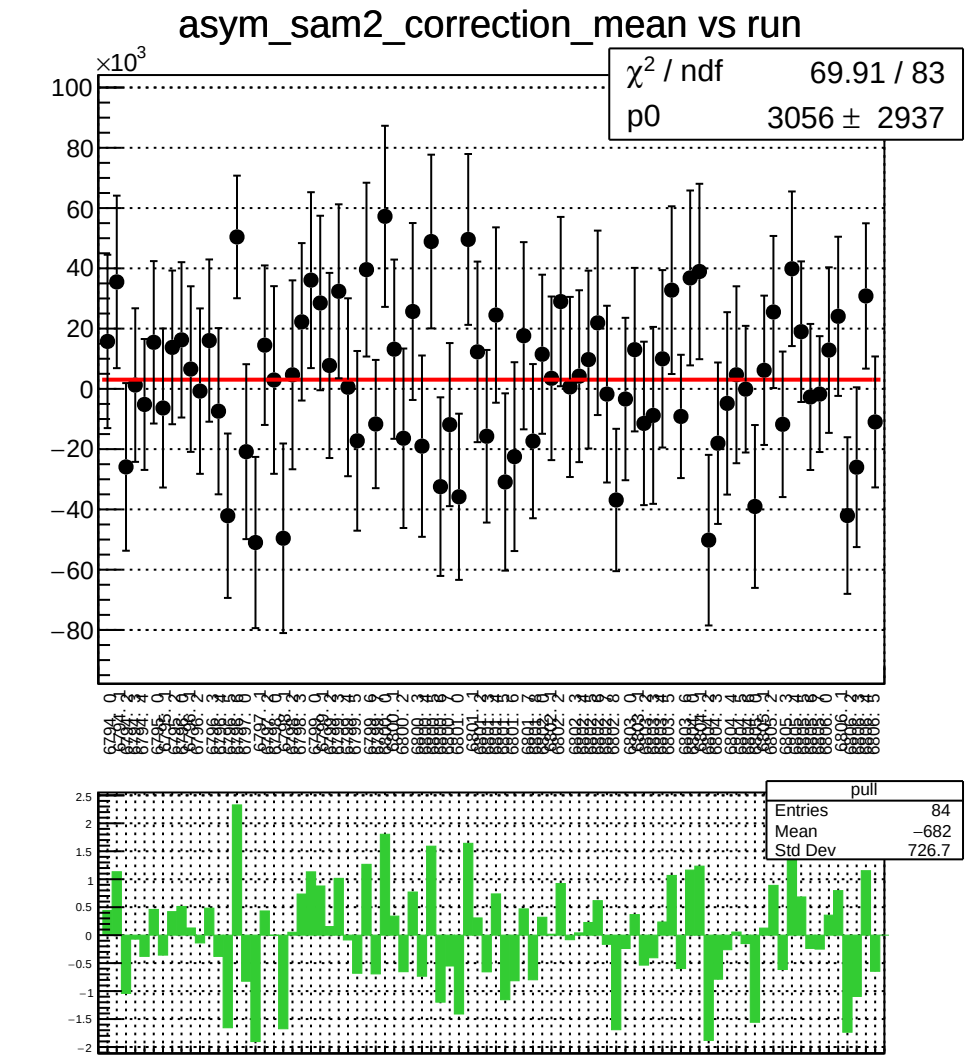

asym_sam1_correction_mean vs run
χ² / ndf 66.56 / 83
p0 866.9 ± 586.6
pull
Entries 84
Mean −295.3
Std Dev 358.6
pull1D
Entries 84
Mean 0.004154
Std Dev 0.8902

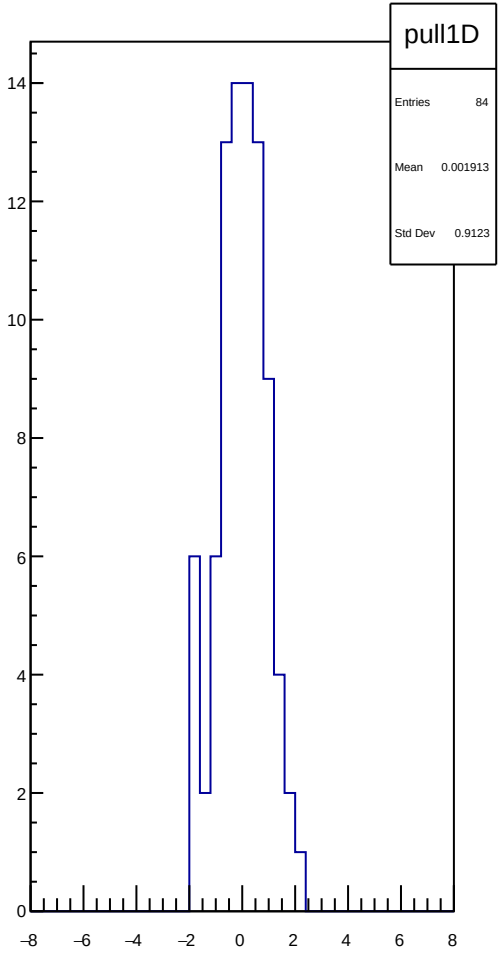

asym_sam1_correction_rms vs run
χ² / ndf 5.76e+04 / 83
p0 519.1 ± 0.4148
700
600
500
400
300

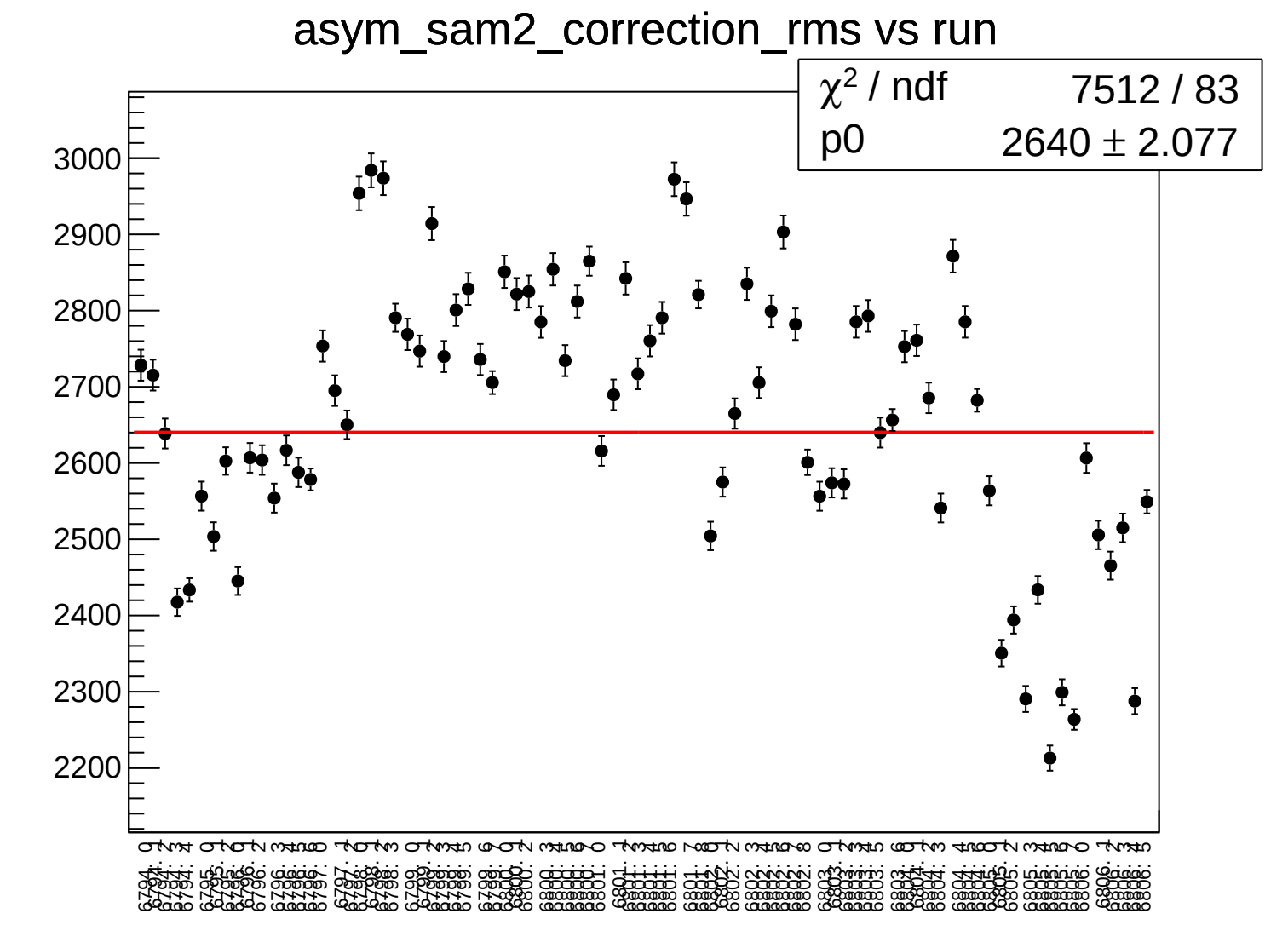

reg_asym_sam2_mean vs run
χ² / ndf 104 / 83
p0 219.3 ± 353.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 665.9
Std Dev 648.6
3
2
1
0
−1
−2

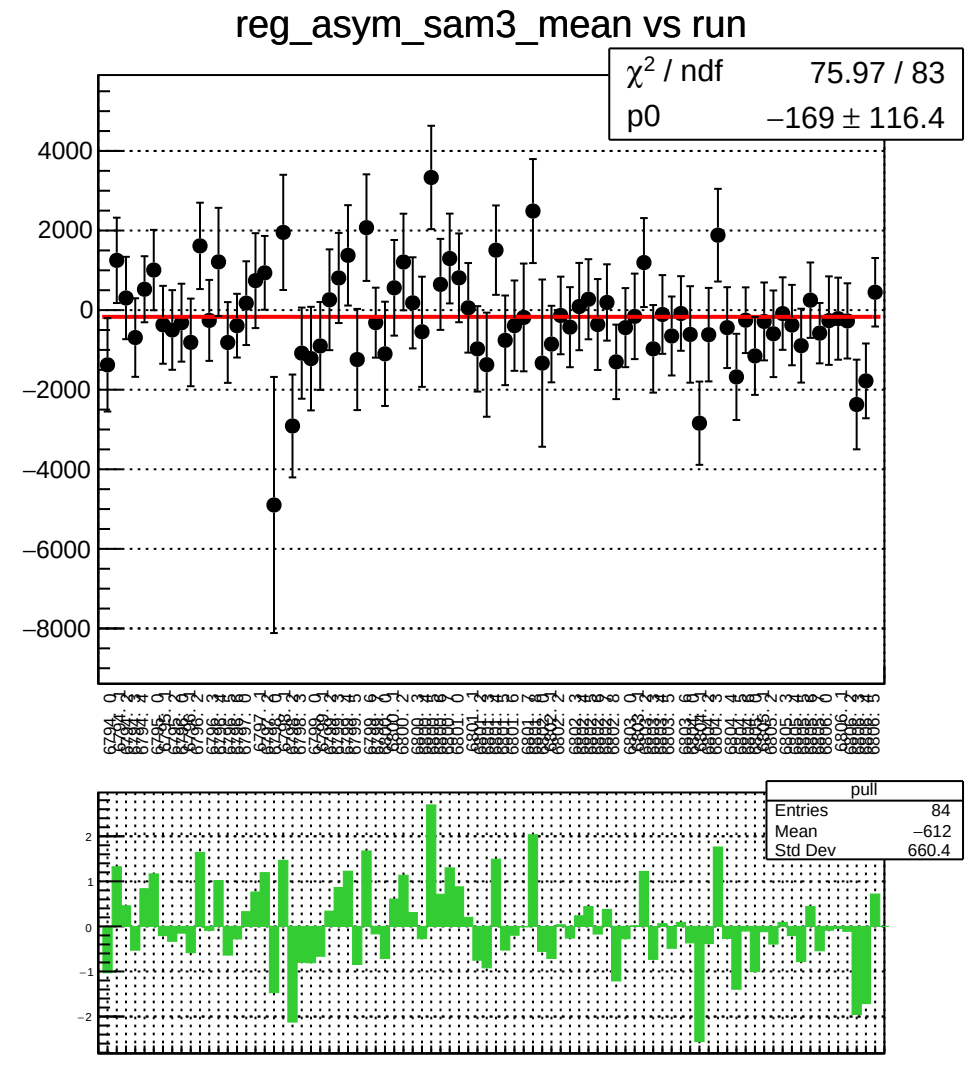

pull1D
Entries 84
Mean 0.003359
Std Dev 1.113
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

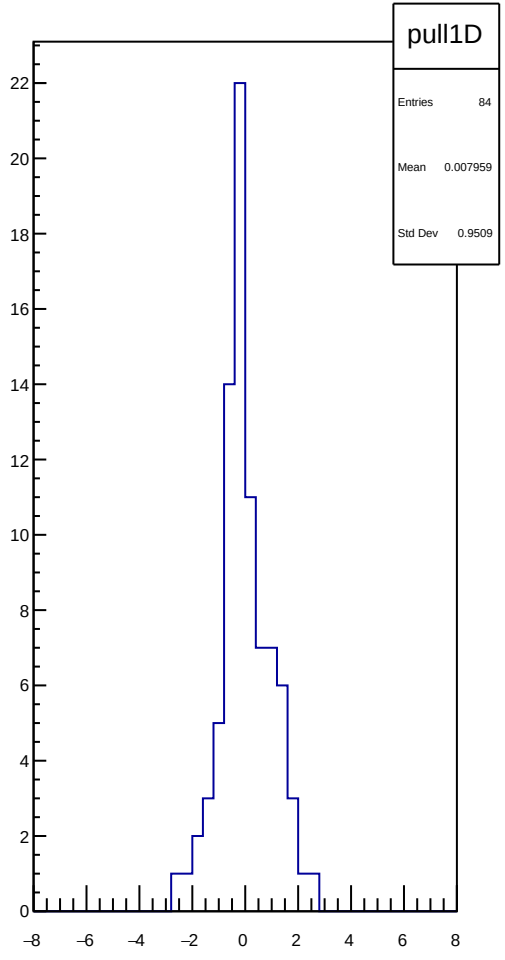

reg_asym_sam2_rms vs run
χ² / ndf 6769 / 83
p0 317.7 ± 0.2498
500
450
400
350
300

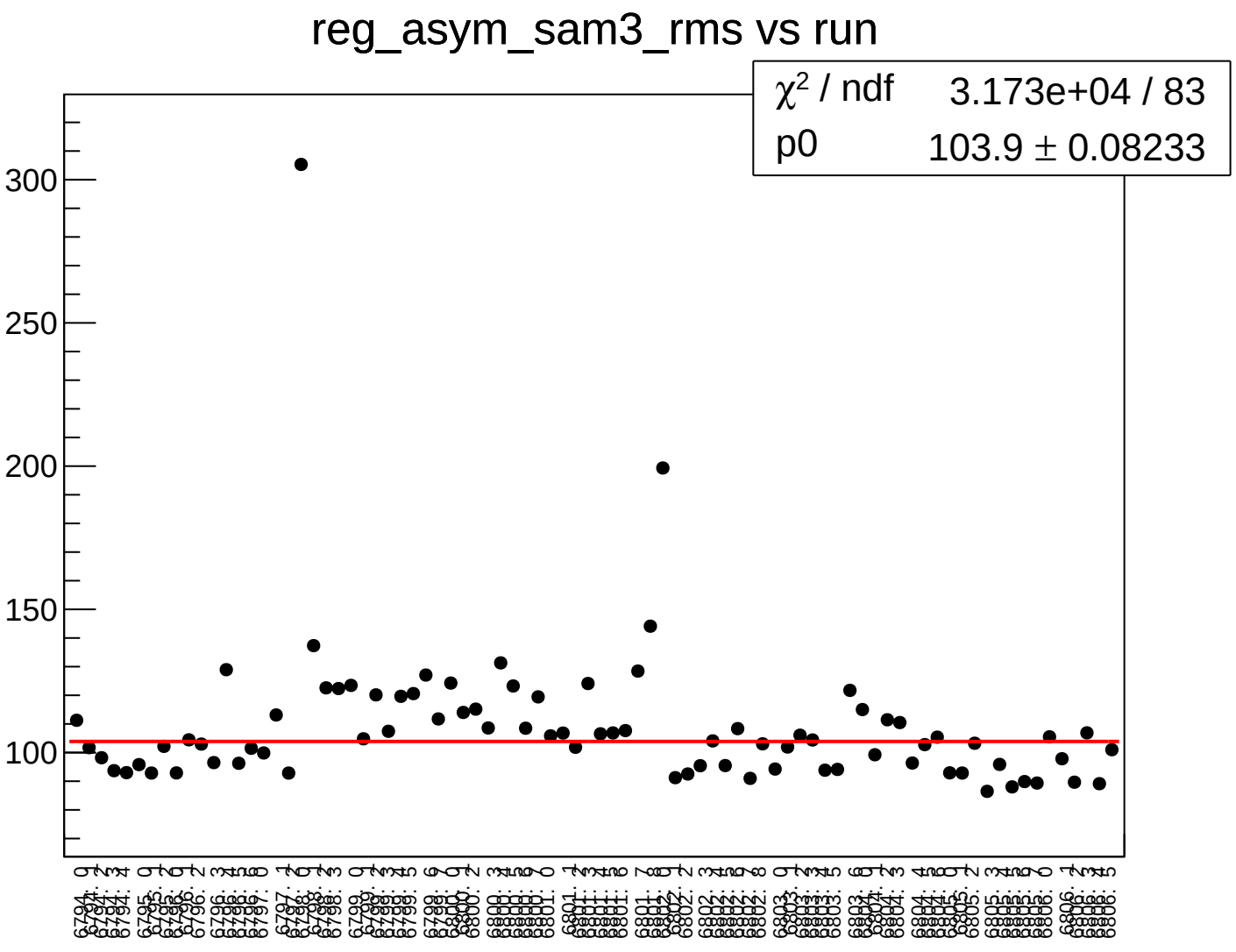

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 69.91 / 83
p0 3056 ± 2937
pull
Entries 84
Mean −682
Std Dev 726.7

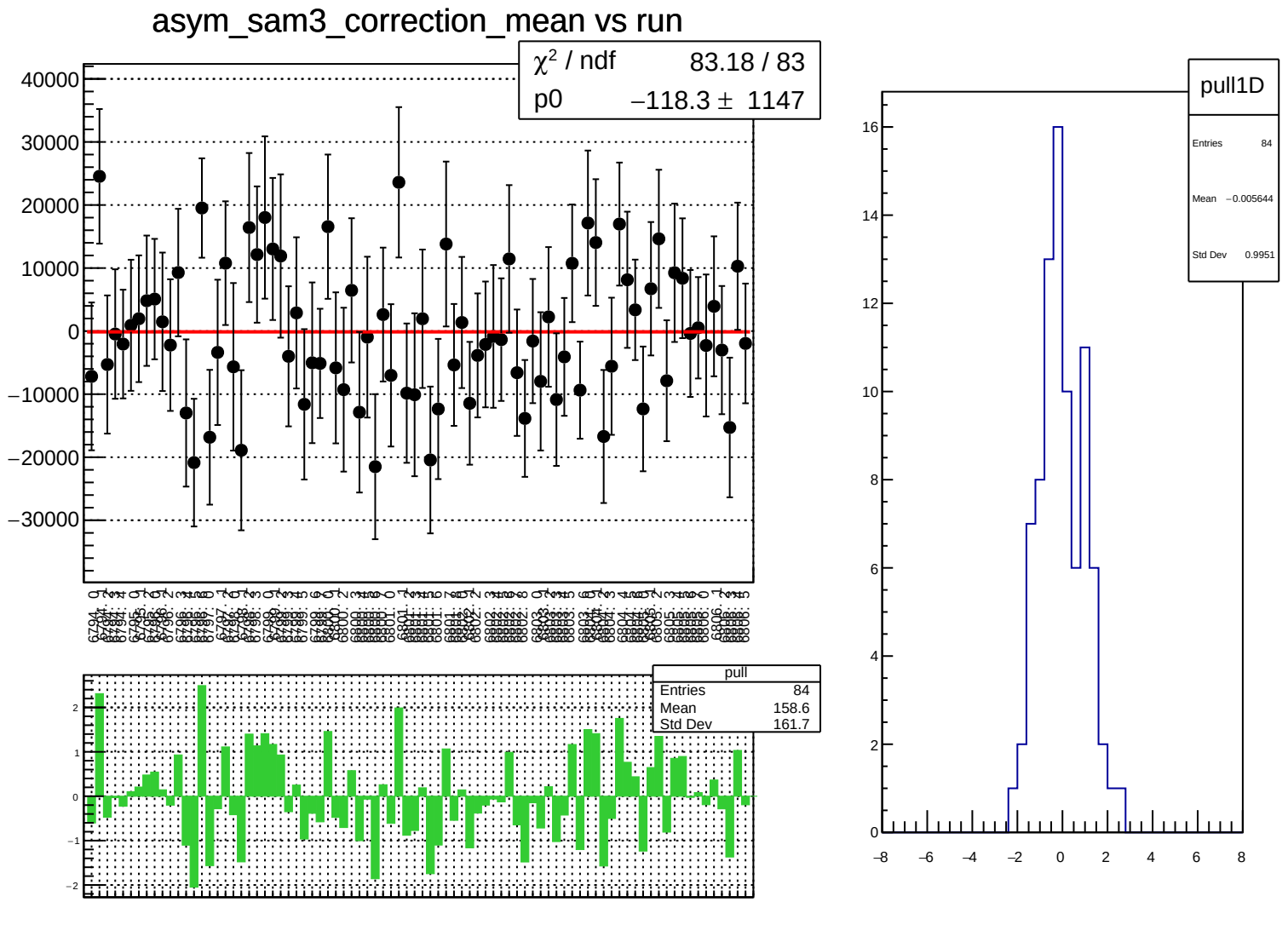

pull1D
Entries 84
Mean 0.001913
Std Dev 0.9123

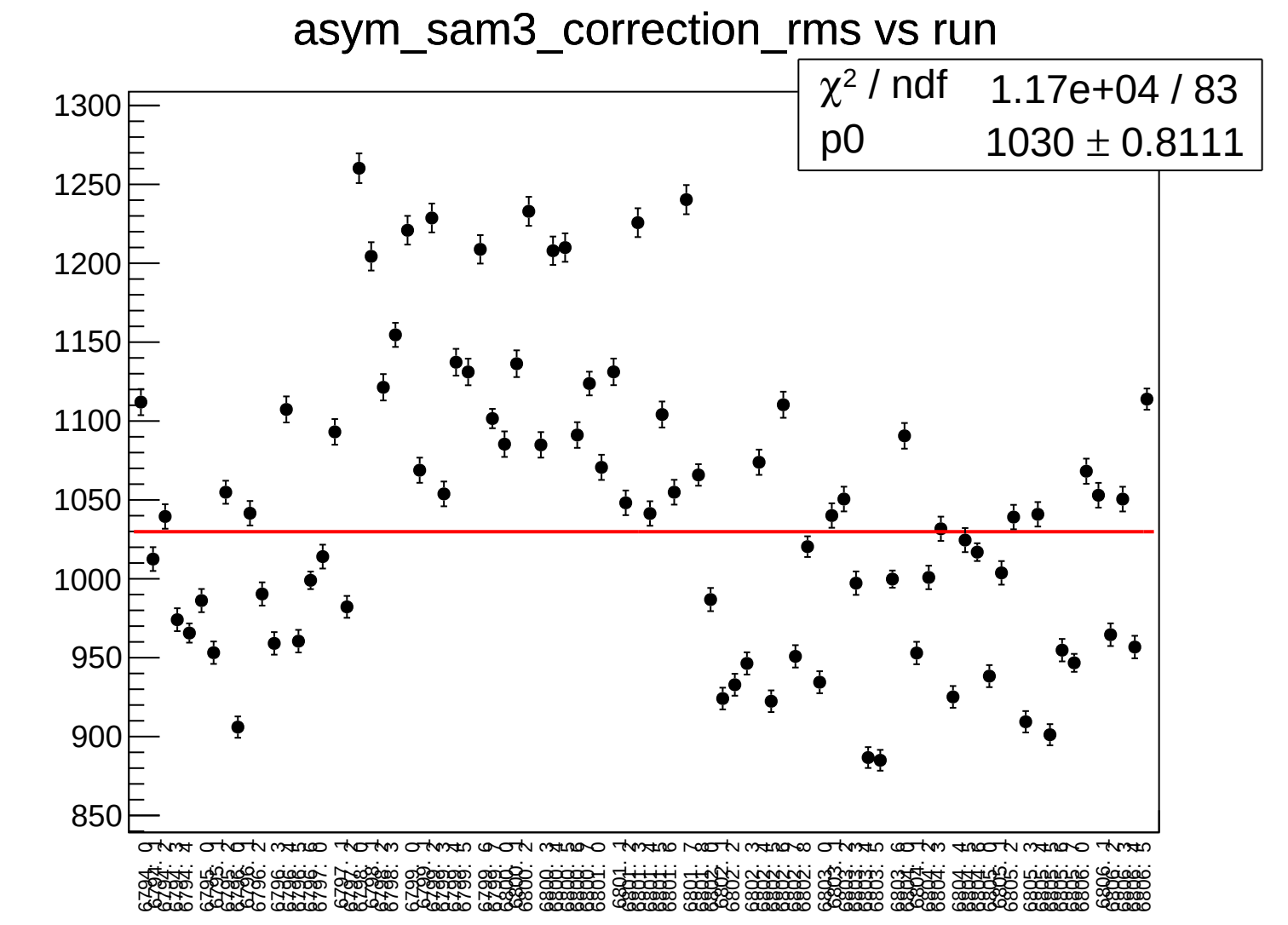

asym_sam2_correction_rms vs run
χ^2 / ndf 7512 / 83
p0 2640 ± 2.077
3000
2900
2800
2700
2600
2500
2400
2300
2200

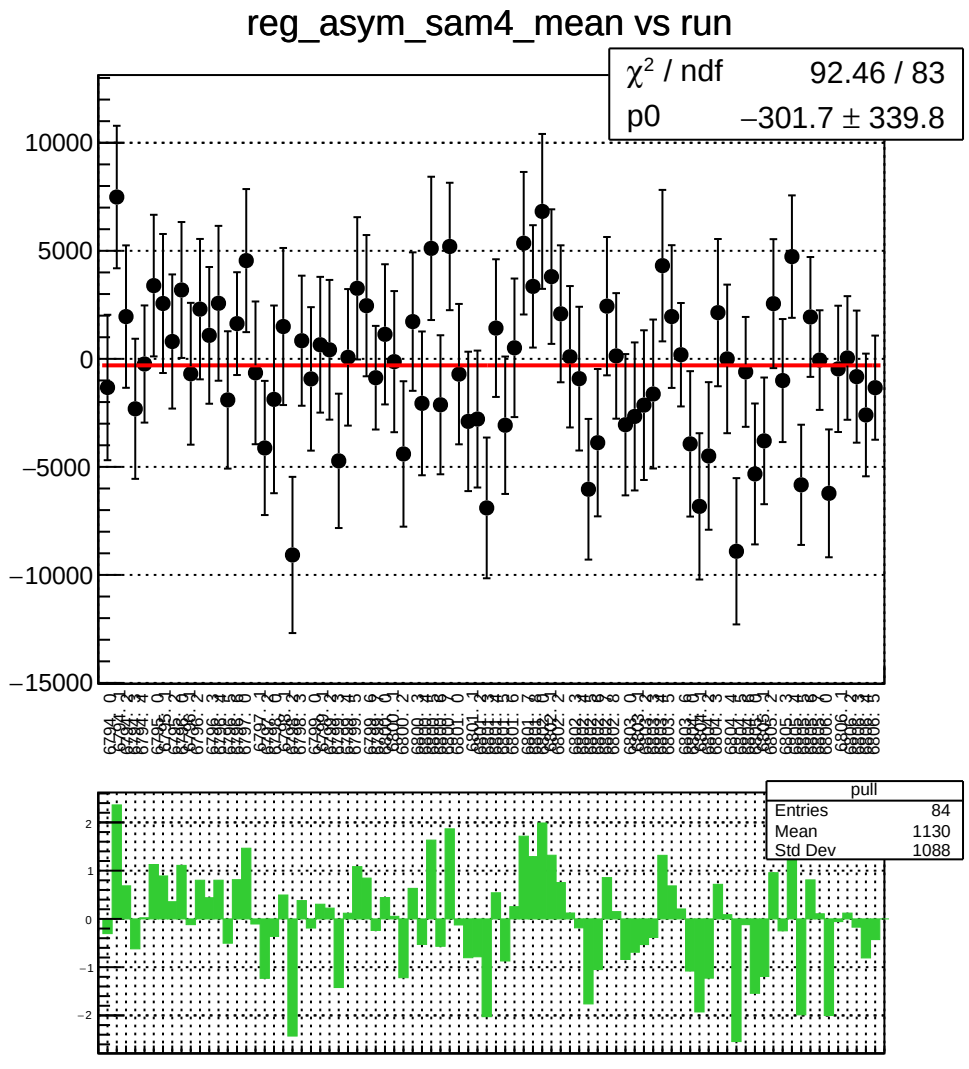

reg_asym_sam3_mean vs run
χ² / ndf 75.97 / 83
p0 −169 ± 116.4
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean −612
Std Dev 660.4
2
1
0
−1
−2

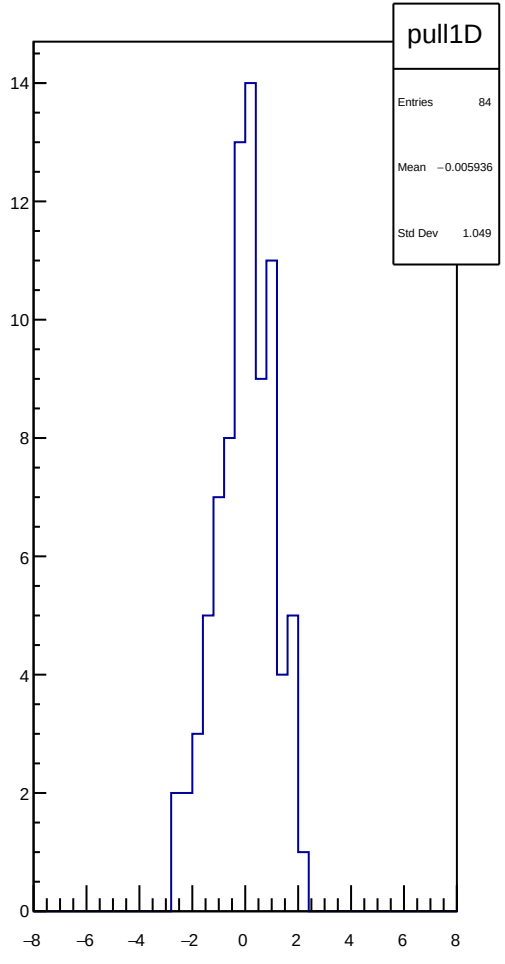

pull1D
Entries 84
Mean 0.007959
Std Dev 0.9509
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

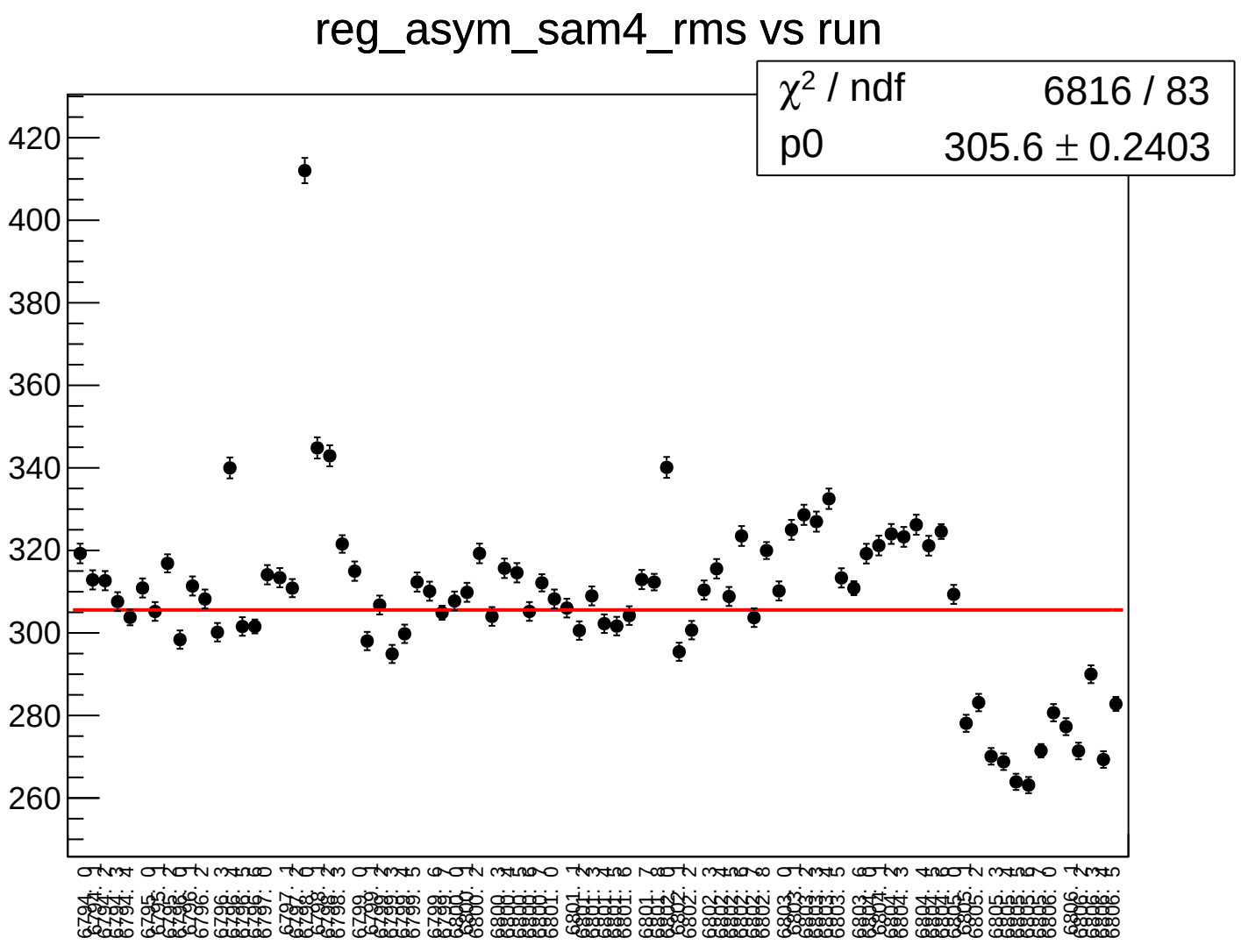

reg_asym_sam3_rms vs run
χ^2 / ndf 3.173e+04 / 83
p0 103.9 ± 0.08233
300
250
200
150
100

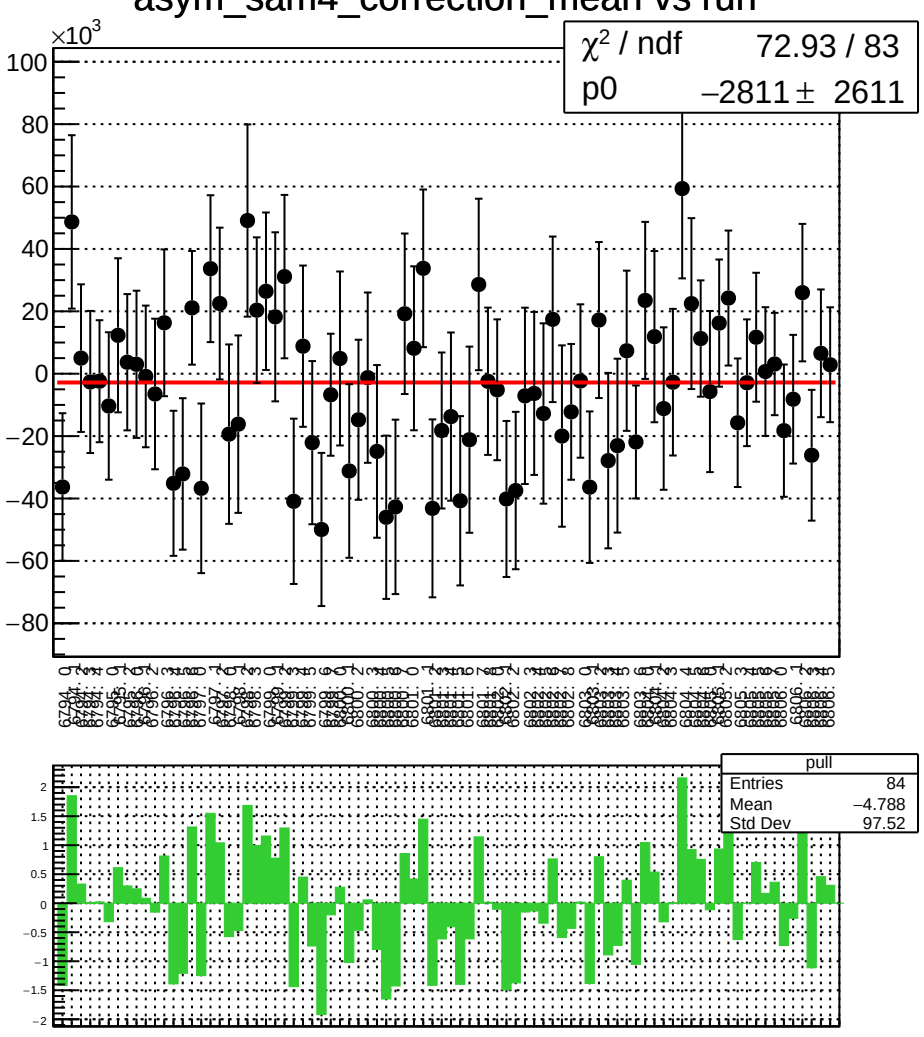

asym_sam3_correction_mean vs run
χ² / ndf 83.18 / 83
p0 −118.3 ± 1147
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 158.6
Std Dev 161.7
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.005644
Std Dev 0.9951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

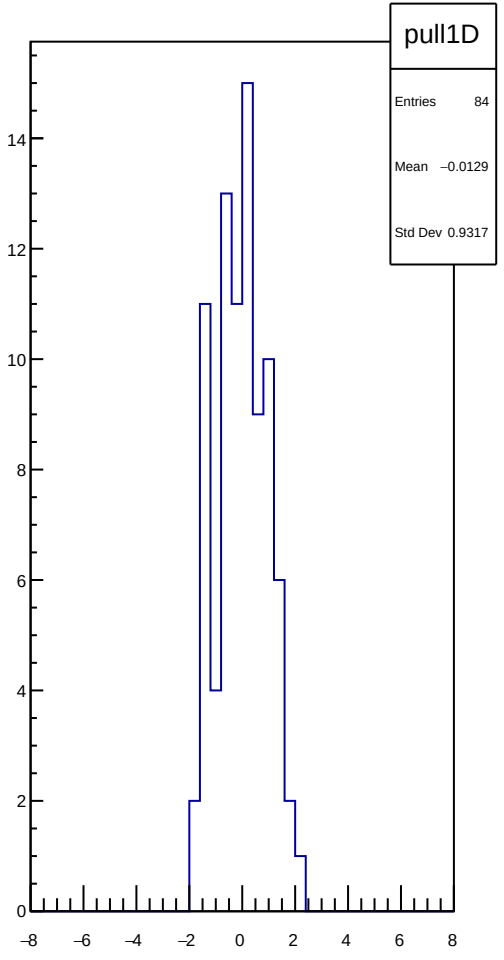

asym_sam3_correction_rms vs run
χ² / ndf 1.17e+04 / 83
p0 1030 ± 0.8111
1300
1250
1200
1150
1100
1050
1000
950
900
850

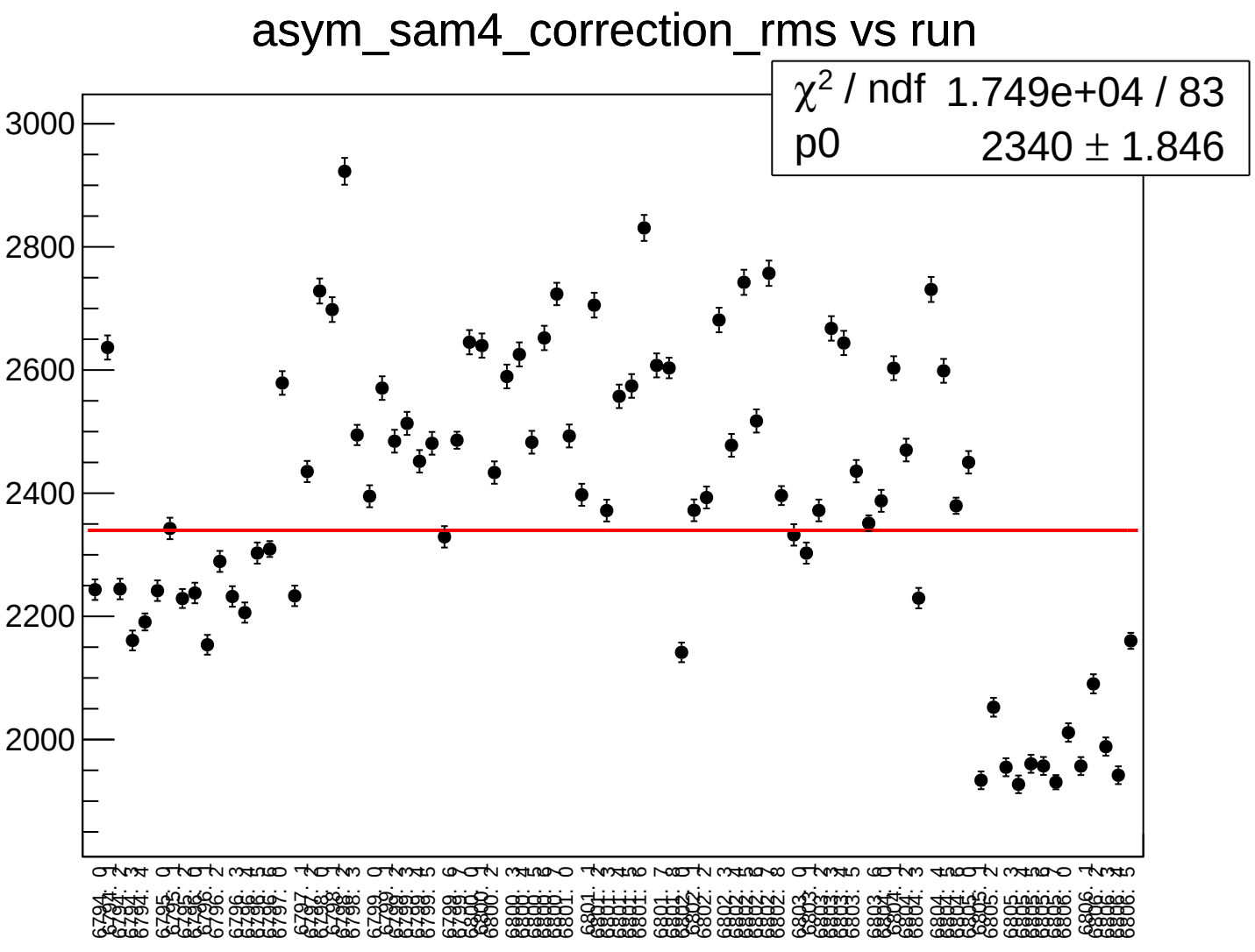

reg_asym_sam4_mean vs run
χ² / ndf 92.46 / 83
p0 −301.7 ± 339.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 1130
Std Dev 1088
2
1
0
−1
−2

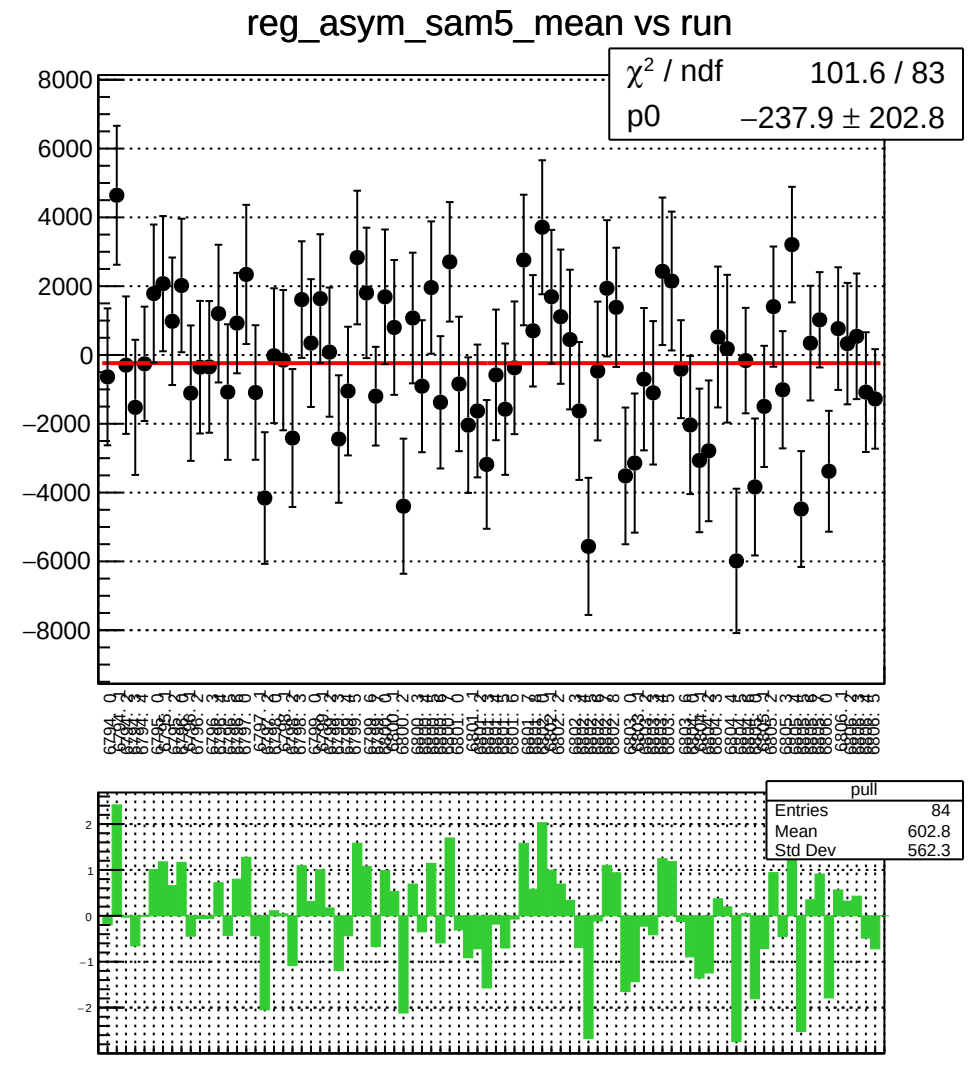

pull1D
Entries 84
Mean −0.005936
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

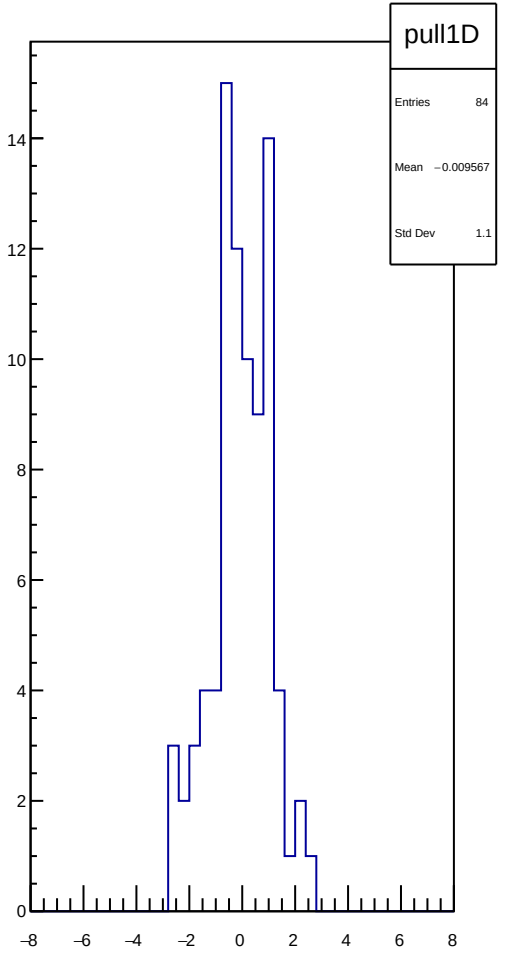

reg_asym_sam4_rms vs run
χ^2 / ndf 6816 / 83
p0 305.6 ± 0.2403
420
400
380
360
340
320
300
280
260

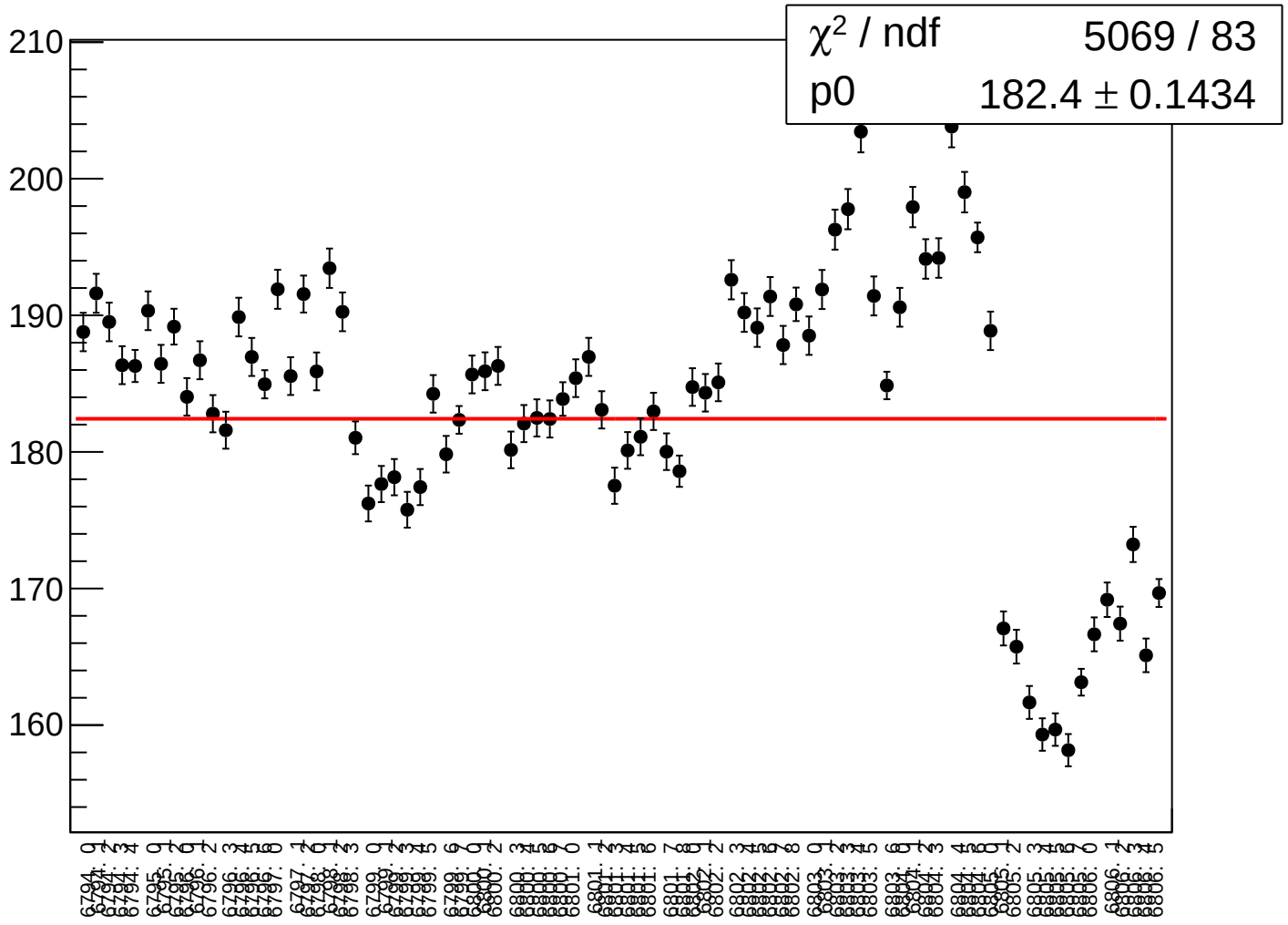

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 72.93 / 83
p0 −2811 ± 2611
pull
Entries 84
Mean −4.788
Std Dev 97.52

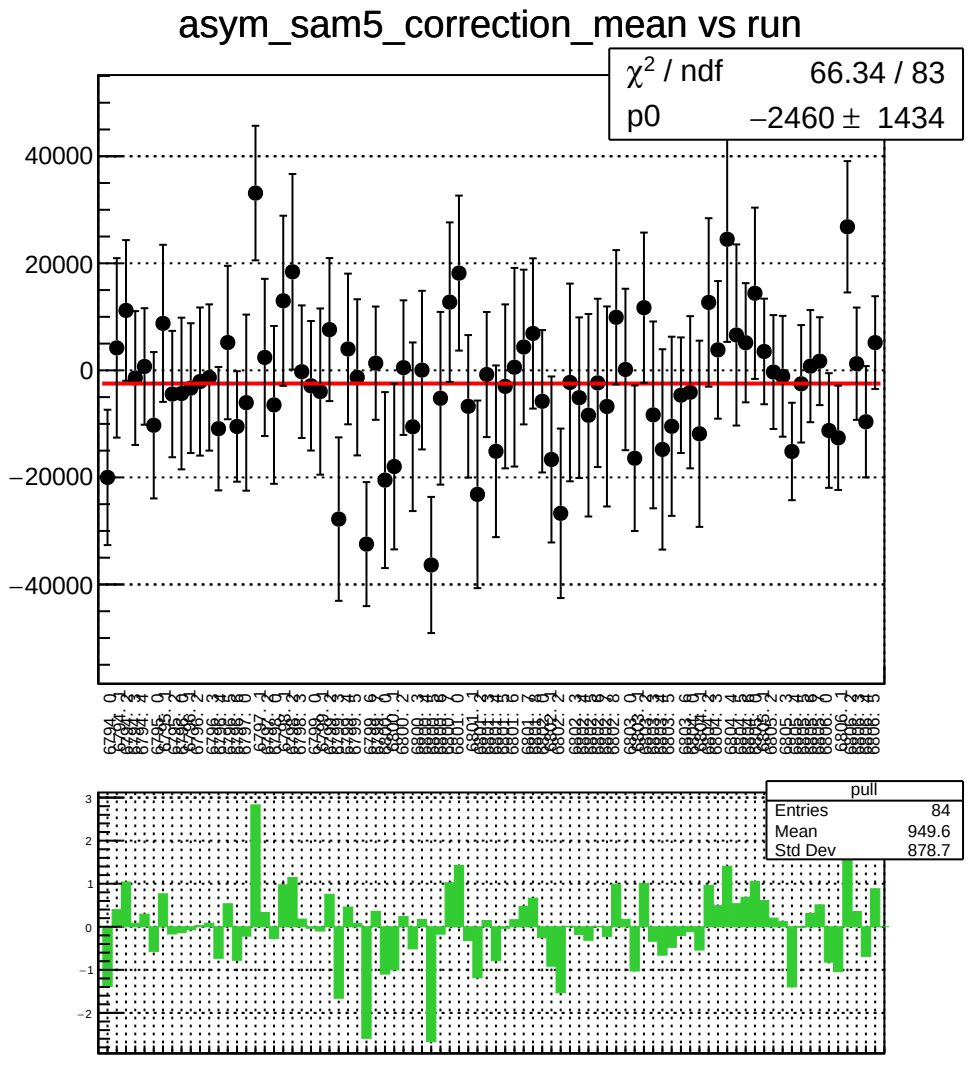

pull1D
Entries 84
Mean −0.0129
Std Dev 0.9317

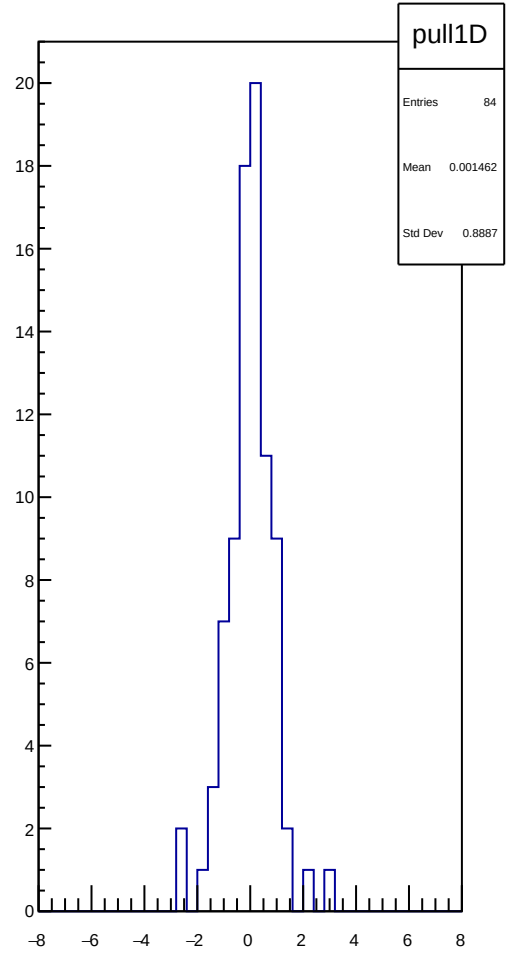

asym_sam4_correction_rms vs run
χ² / ndf 1.749e+04 / 83
p0 2340 ± 1.846
3000
2800
2600
2400
2200
2000

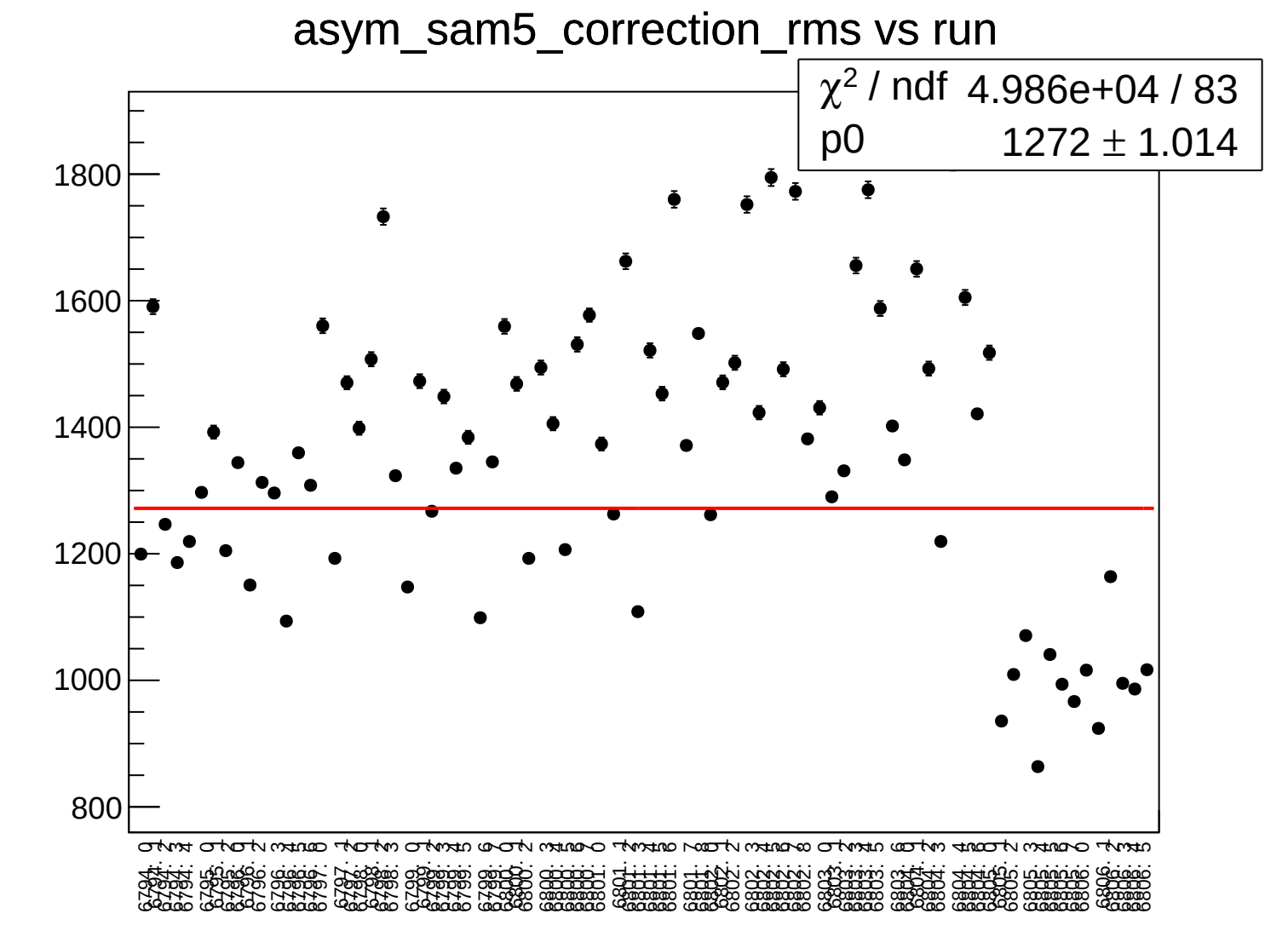

reg_asym_sam5_mean vs run
χ² / ndf 101.6 / 83
p0 −237.9 ± 202.8
pull
Entries 84
Mean 602.8
Std Dev 562.3

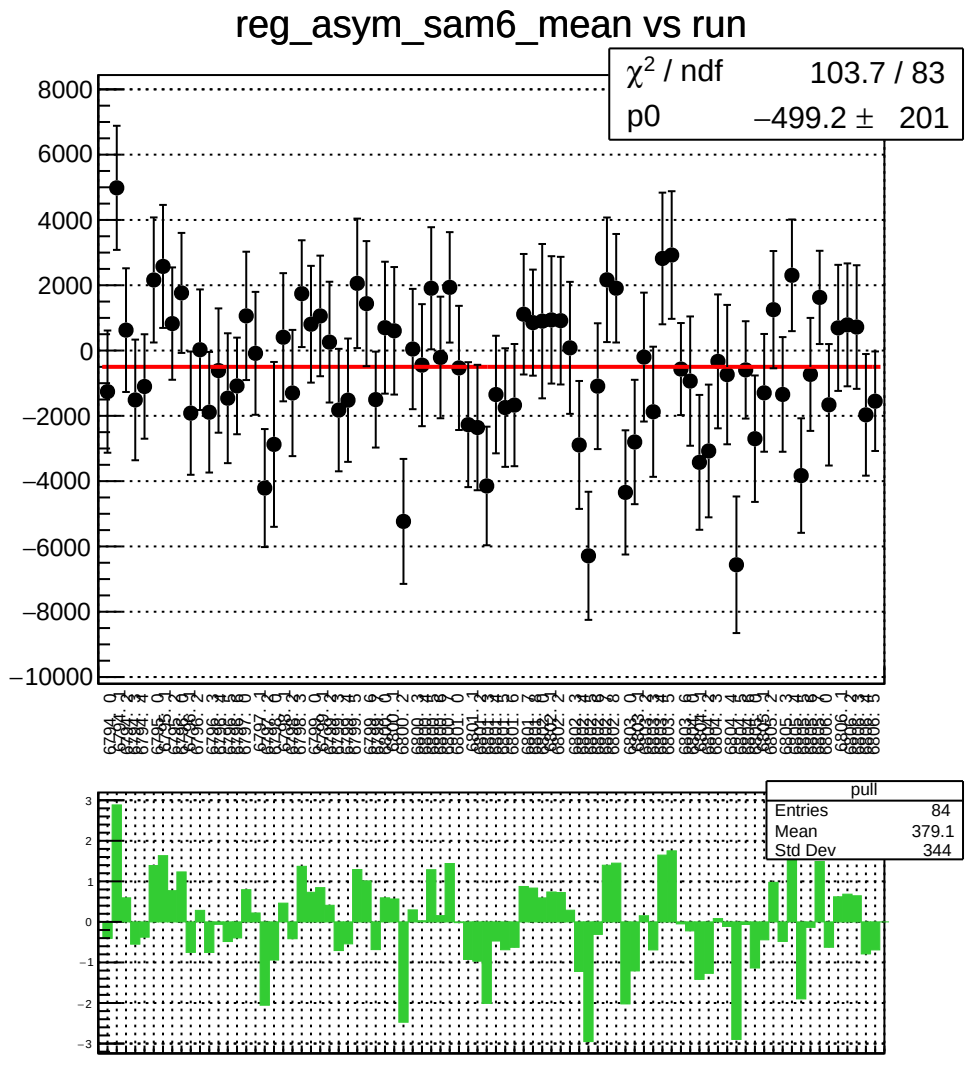

pull1D
Entries 84
Mean −0.009567
Std Dev 1.1

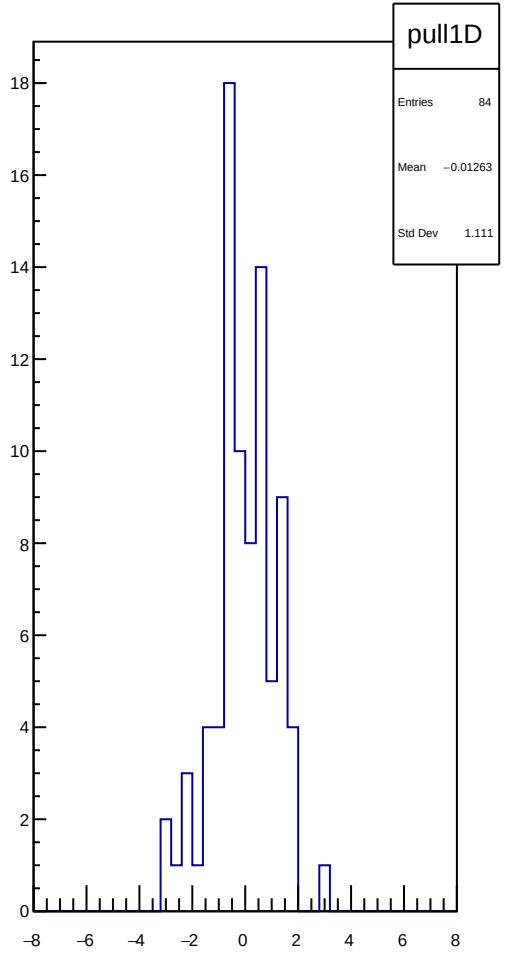

reg_asym_sam5_rms vs run
χ² / ndf 5069 / 83
p0 182.4 ± 0.1434
210
200
190
180
170
160

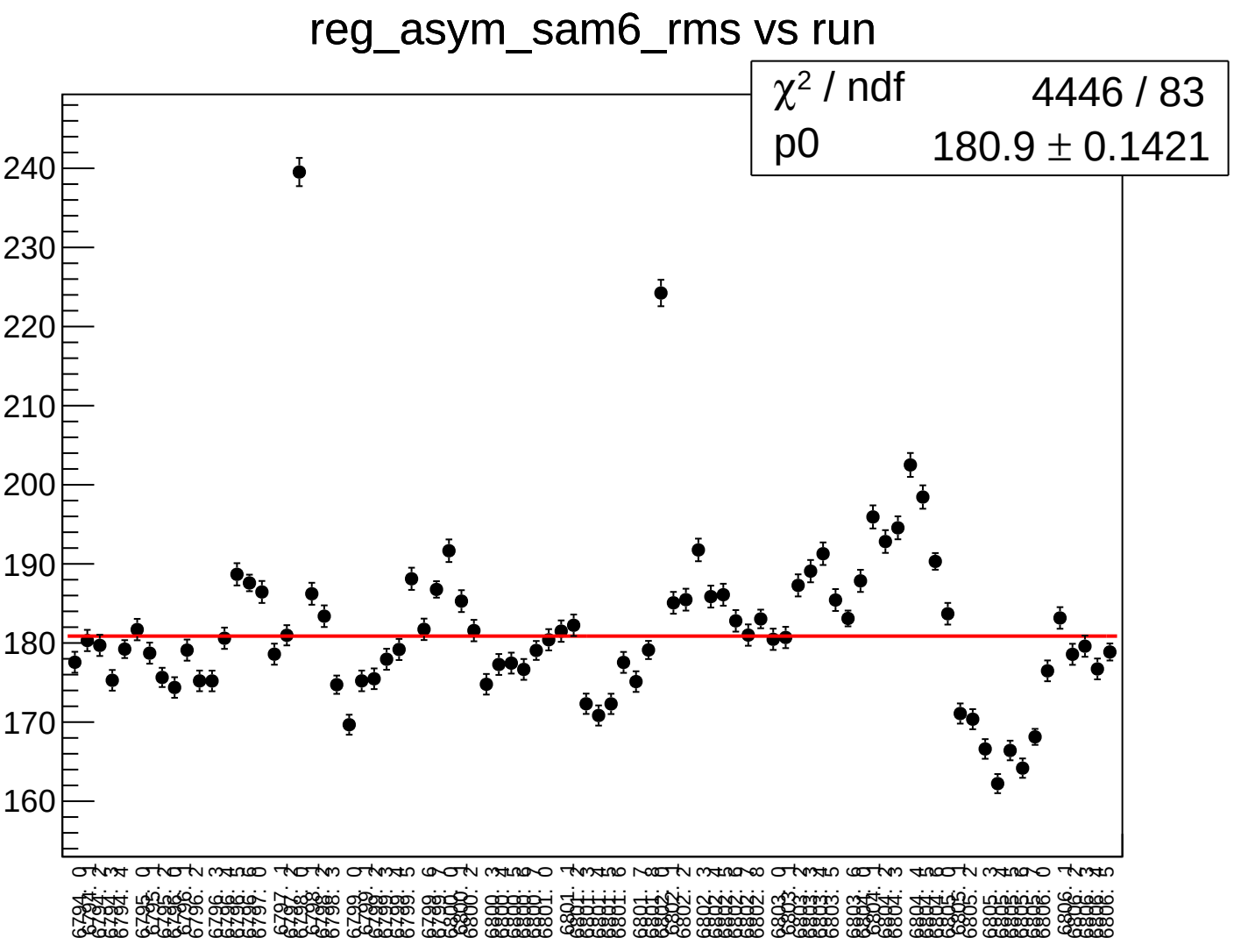

asym_sam5_correction_mean vs run
χ² / ndf 66.34 / 83
p0 −2460 ± 1434
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 949.6
Std Dev 878.7
3
2
1
0
−1
−2

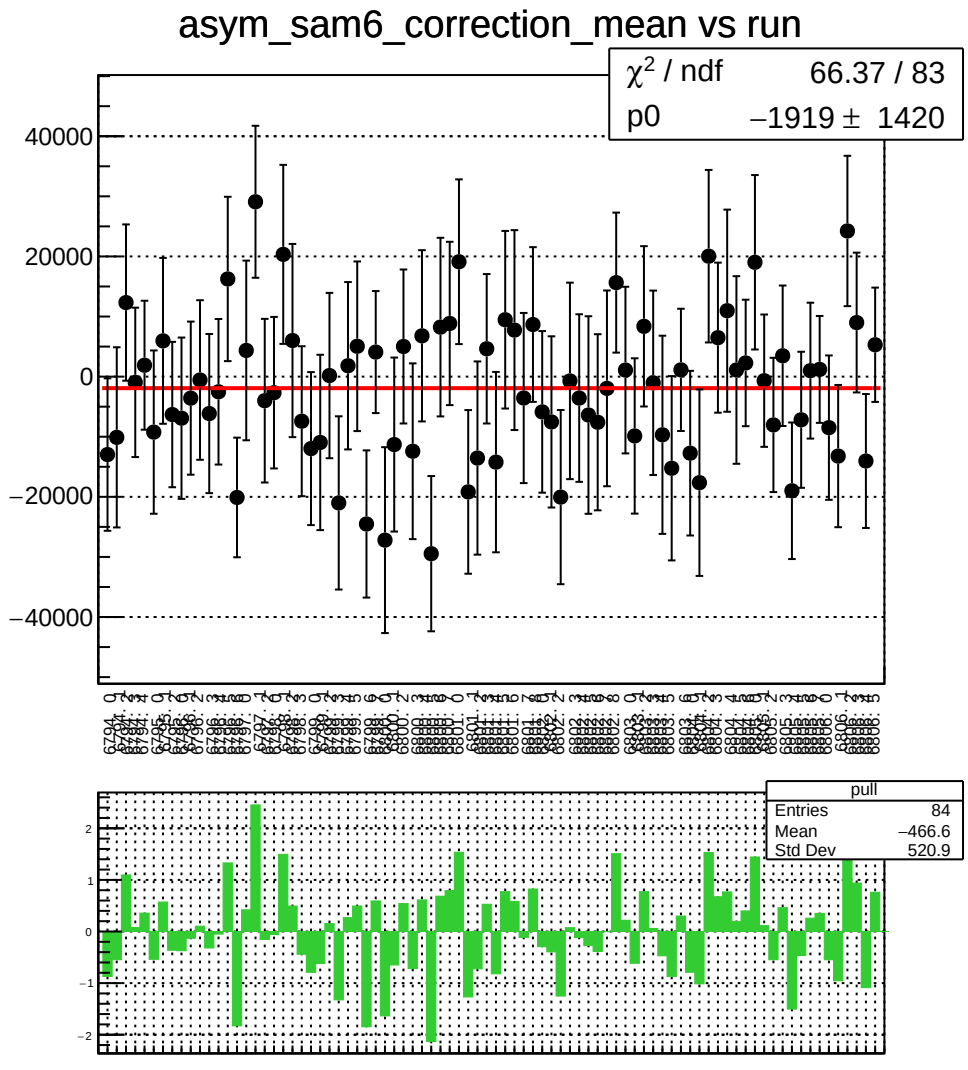

pull1D
Entries 84
Mean 0.001462
Std Dev 0.8887
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

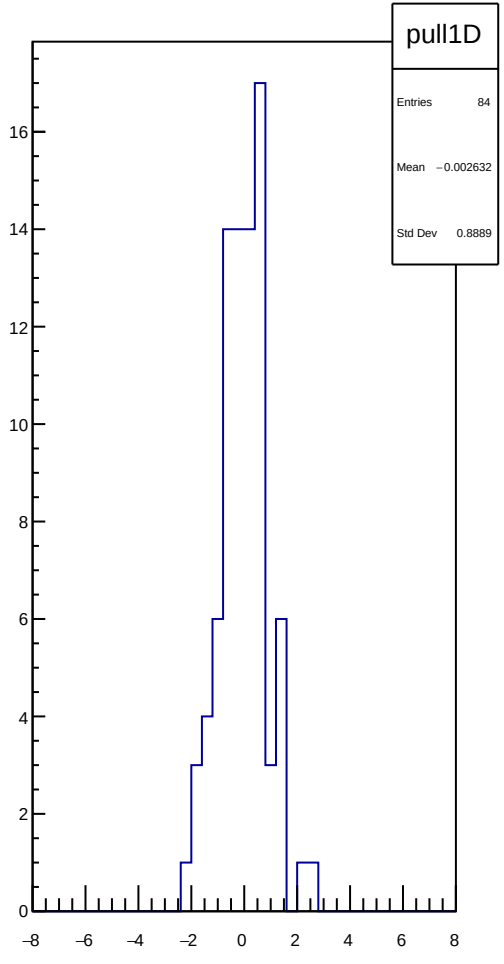

asym_sam5_correction_rms vs run
χ² / ndf 4.986e+04 / 83
p0 1272 ± 1.014
1800
1600
1400
1200
1000
800

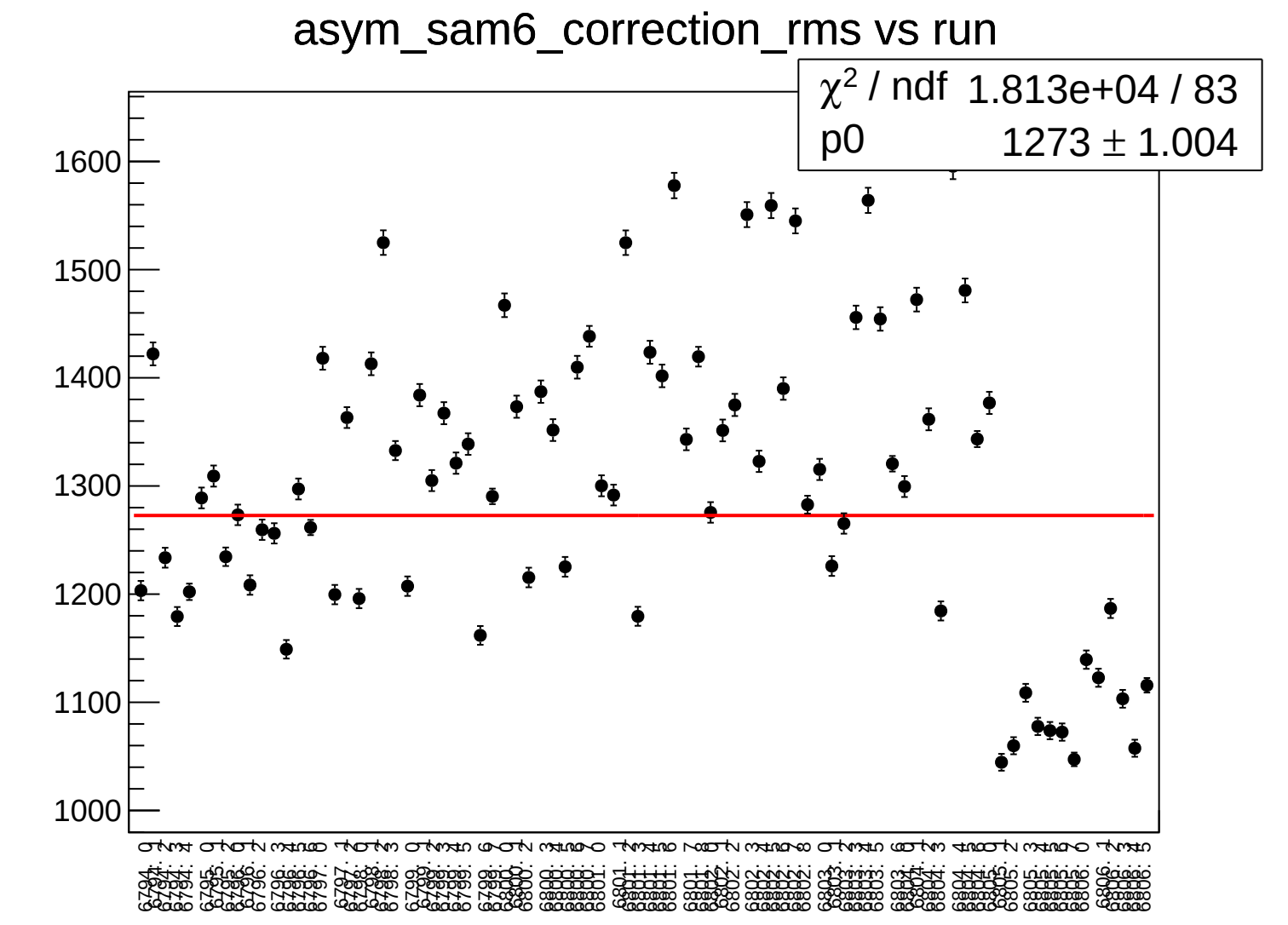

reg_asym_sam6_mean vs run
χ² / ndf 103.7 / 83
p0 −499.2 ± 201
pull
Entries 84
Mean 379.1
Std Dev 344

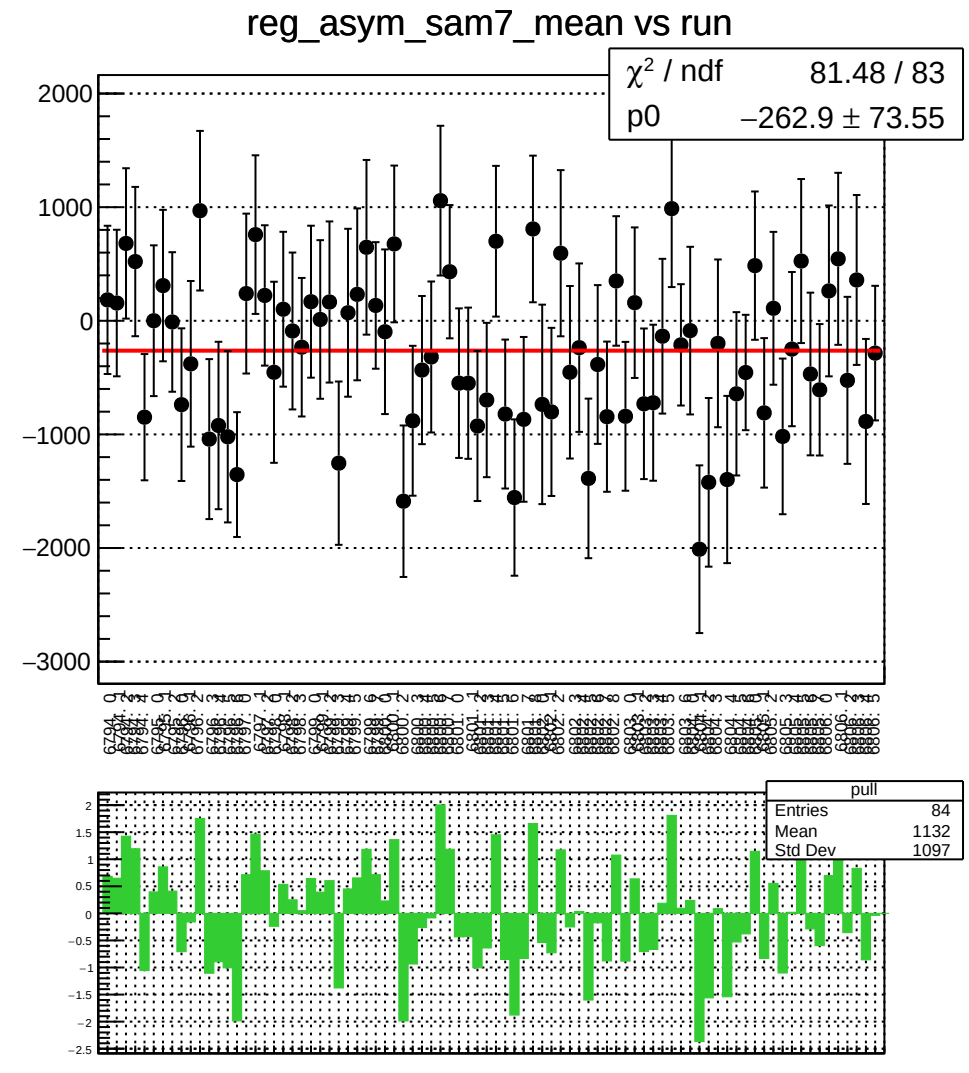

pull1D
Entries 84
Mean −0.01263
Std Dev 1.111

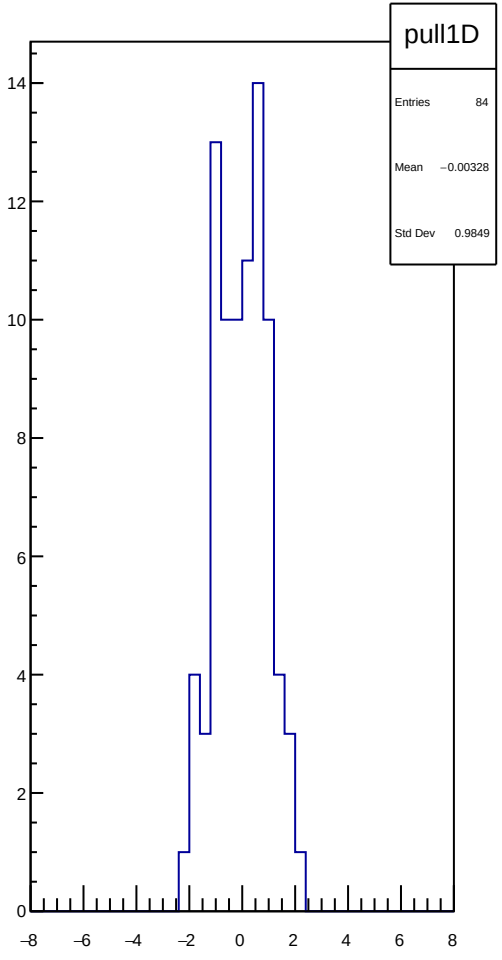

reg_asym_sam6_rms vs run
χ² / ndf 4446 / 83
p0 180.9 ± 0.1421
240
230
220
210
200
190
180
170
160

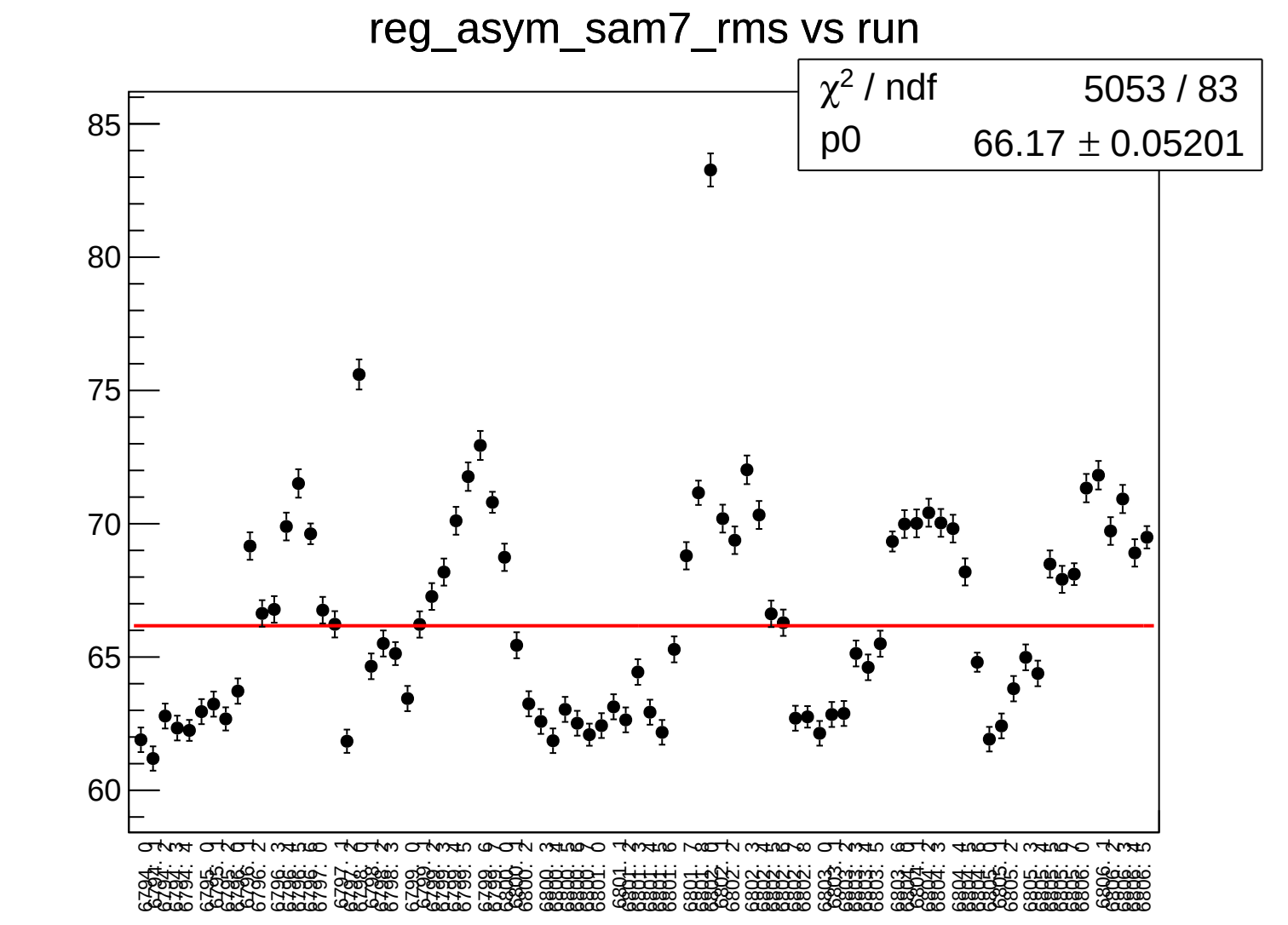

asym_sam6_correction_mean vs run
χ² / ndf 66.37 / 83
p0 −1919 ± 1420
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −466.6
Std Dev 520.9
2
1
0
−1
−2

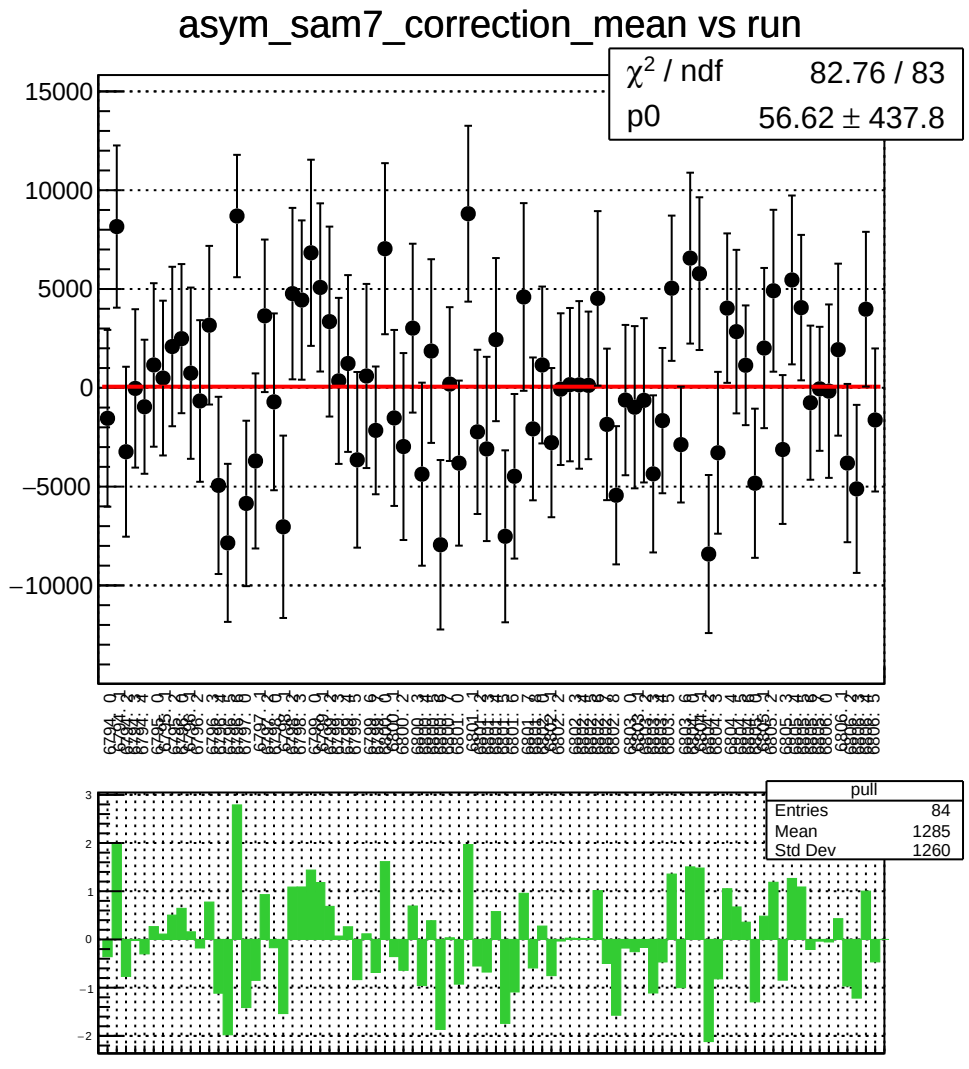

pull1D
Entries 84
Mean −0.002632
Std Dev 0.8889
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

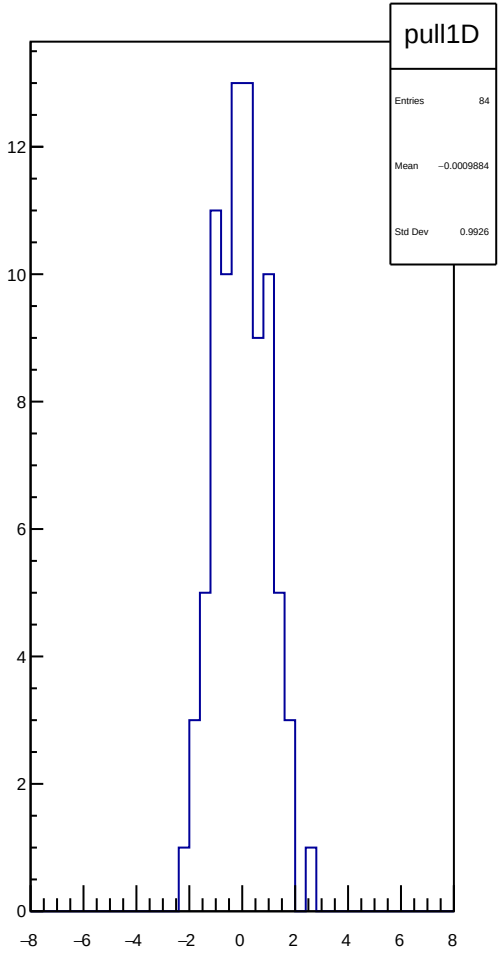

asym_sam6_correction_rms vs run
χ² / ndf 1.813e+04 / 83
p0 1273 ± 1.004
1600
1500
1400
1300
1200
1100
1000

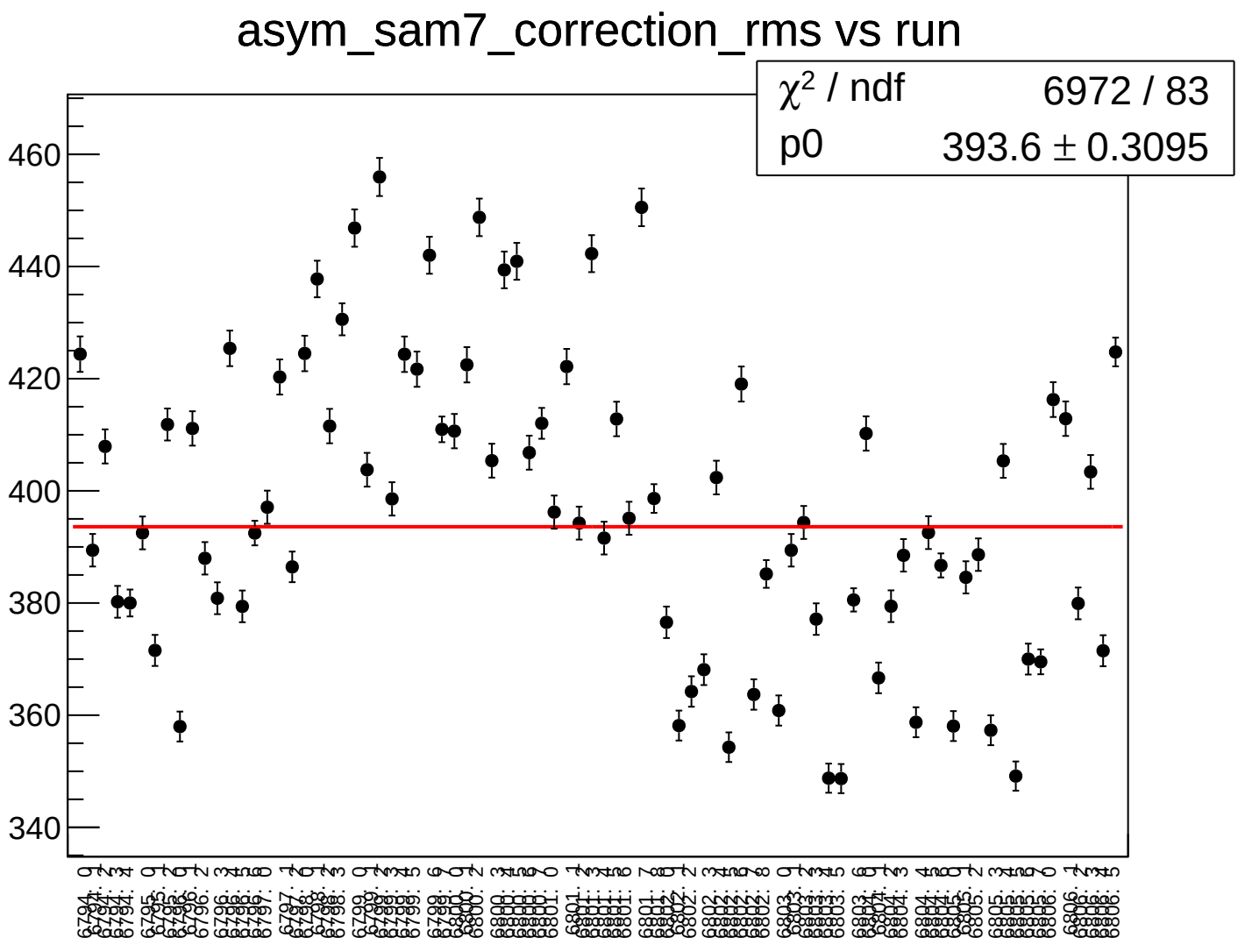

reg_asym_sam7_mean vs run
χ² / ndf 81.48 / 83
p0 −262.9 ± 73.55
pull
Entries 84
Mean 1132
Std Dev 1097

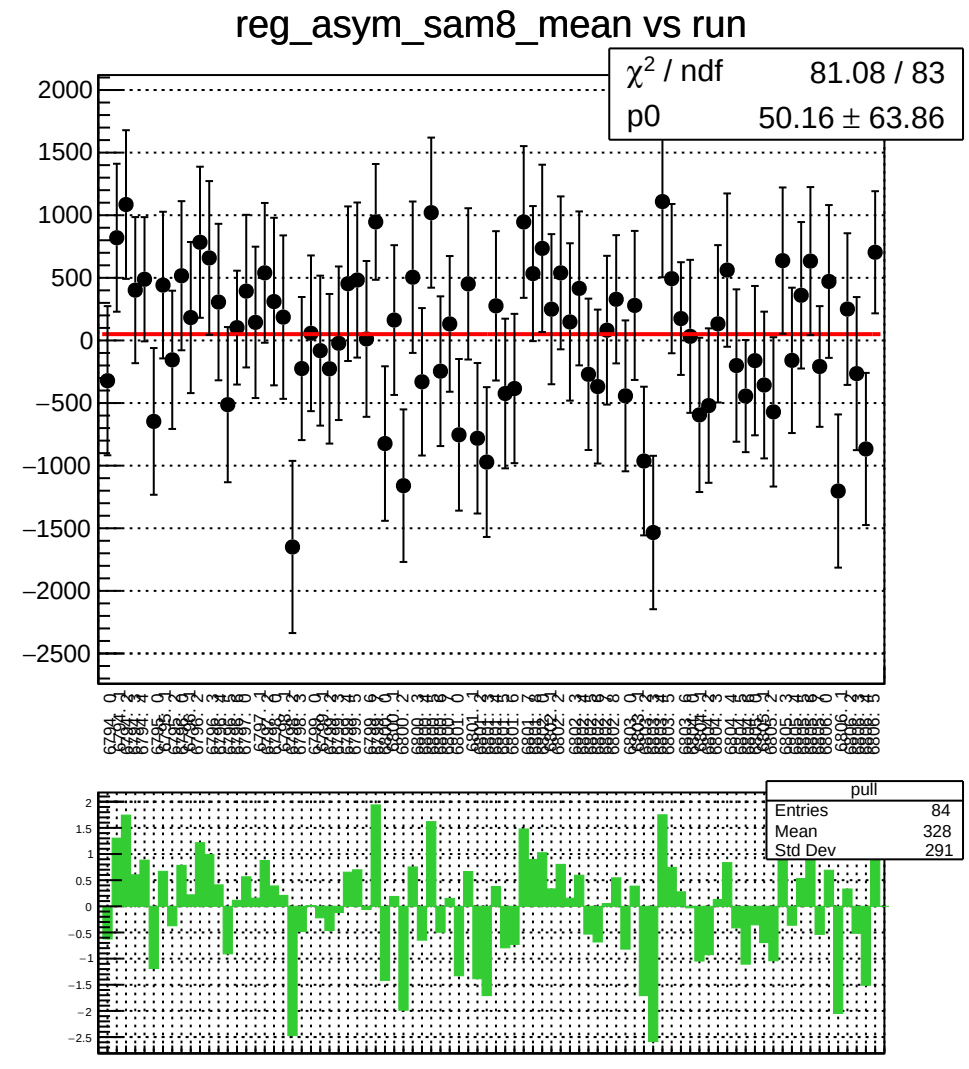

pull1D
Entries 84
Mean −0.00328
Std Dev 0.9849

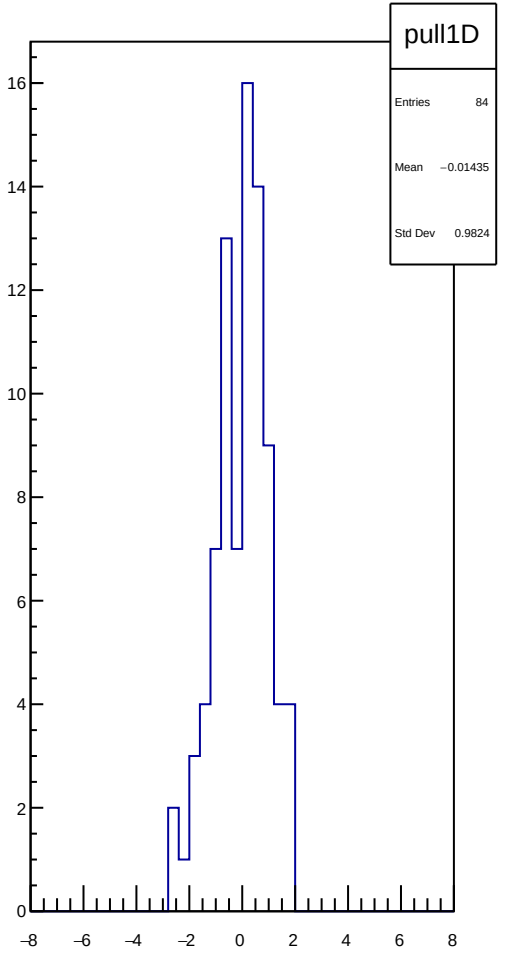

reg_asym_sam7_rms vs run
χ^2 / ndf 5053 / 83
p0 66.17 ± 0.05201
85
80
75
70
65
60

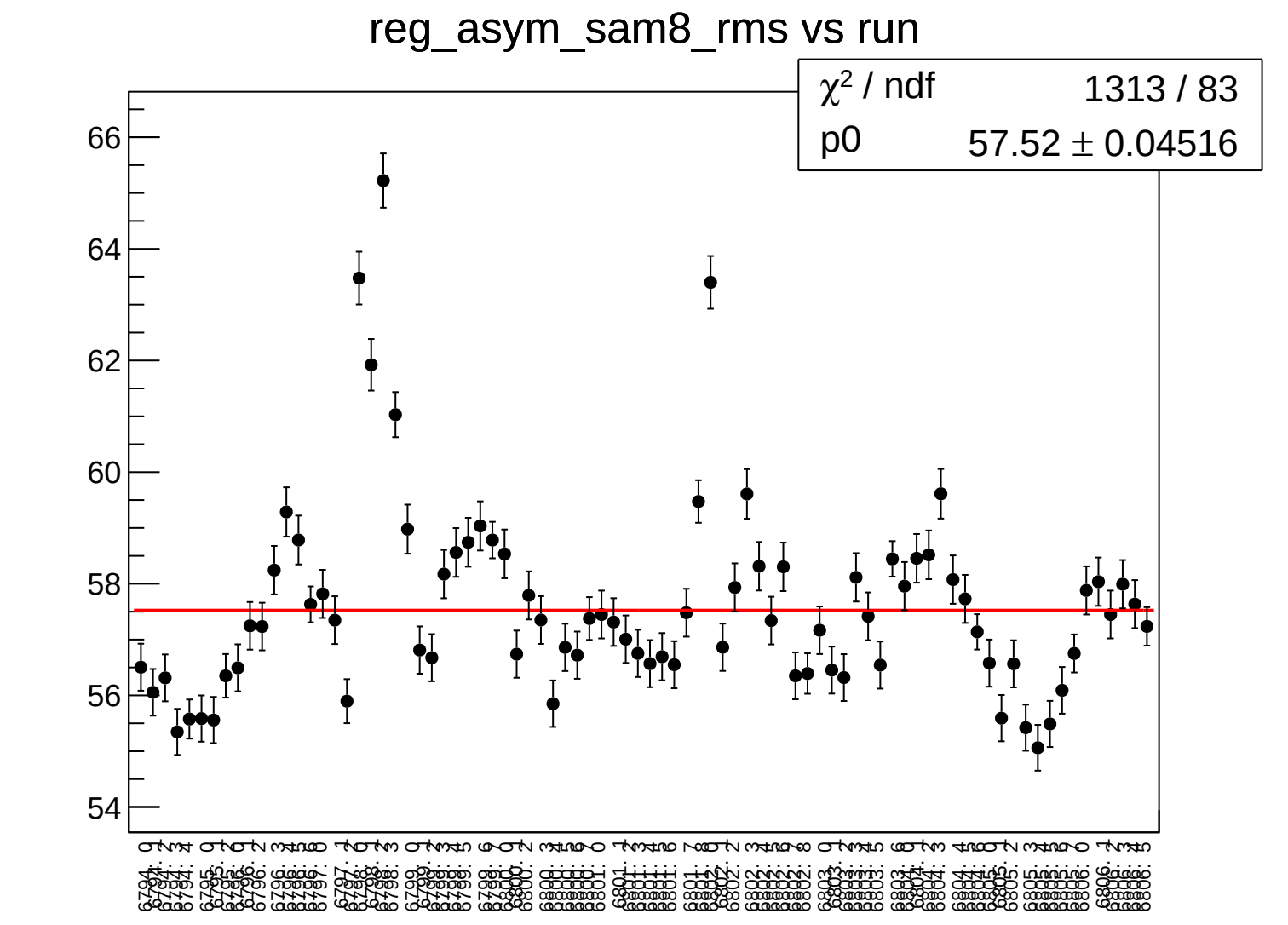

asym_sam7_correction_mean vs run
χ² / ndf 82.76 / 83
p0 56.62 ± 437.8
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 1285
Std Dev 1260
3
2
1
0
−1
−2

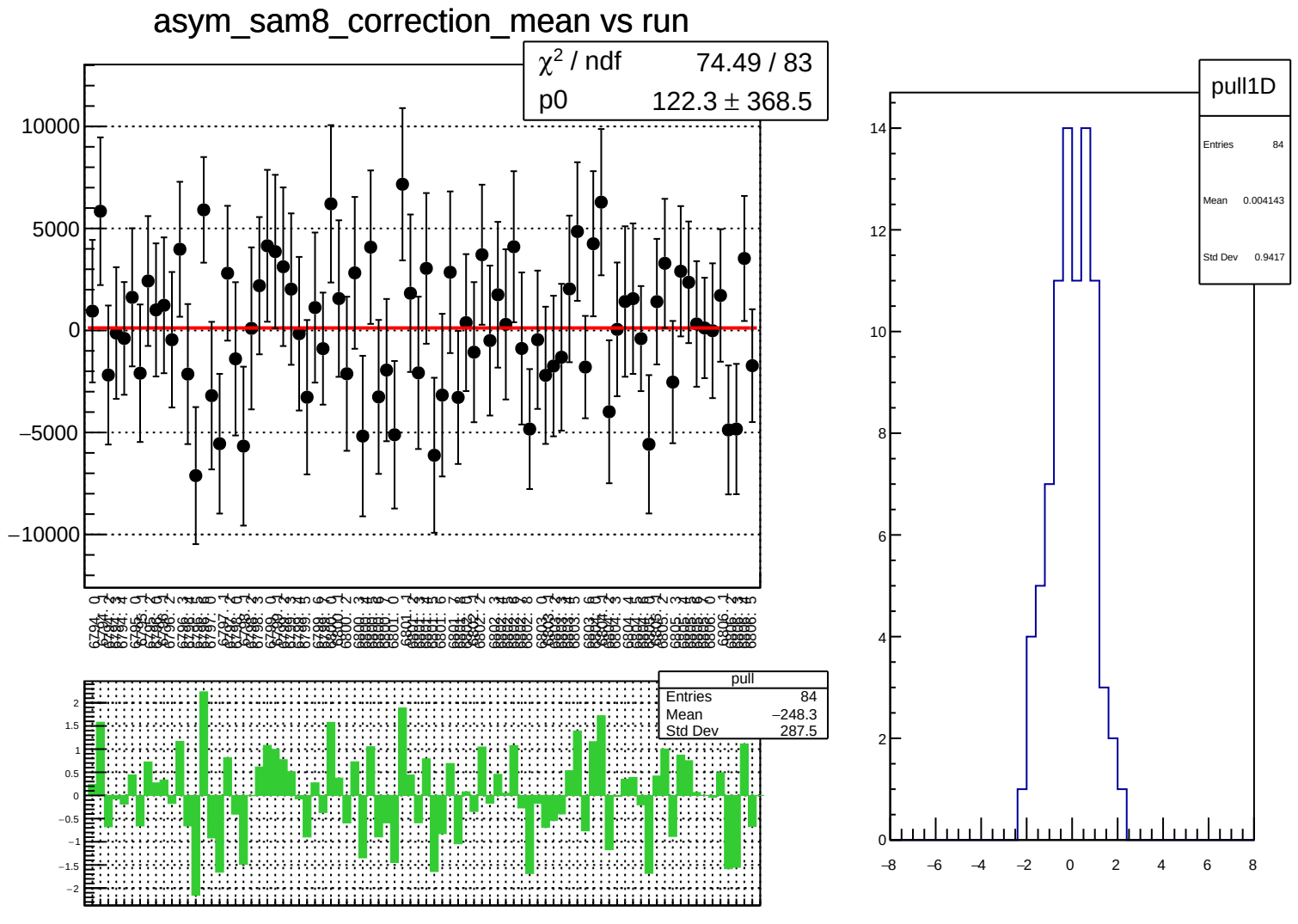

pull1D
Entries 84
Mean −0.0009884
Std Dev 0.9926
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

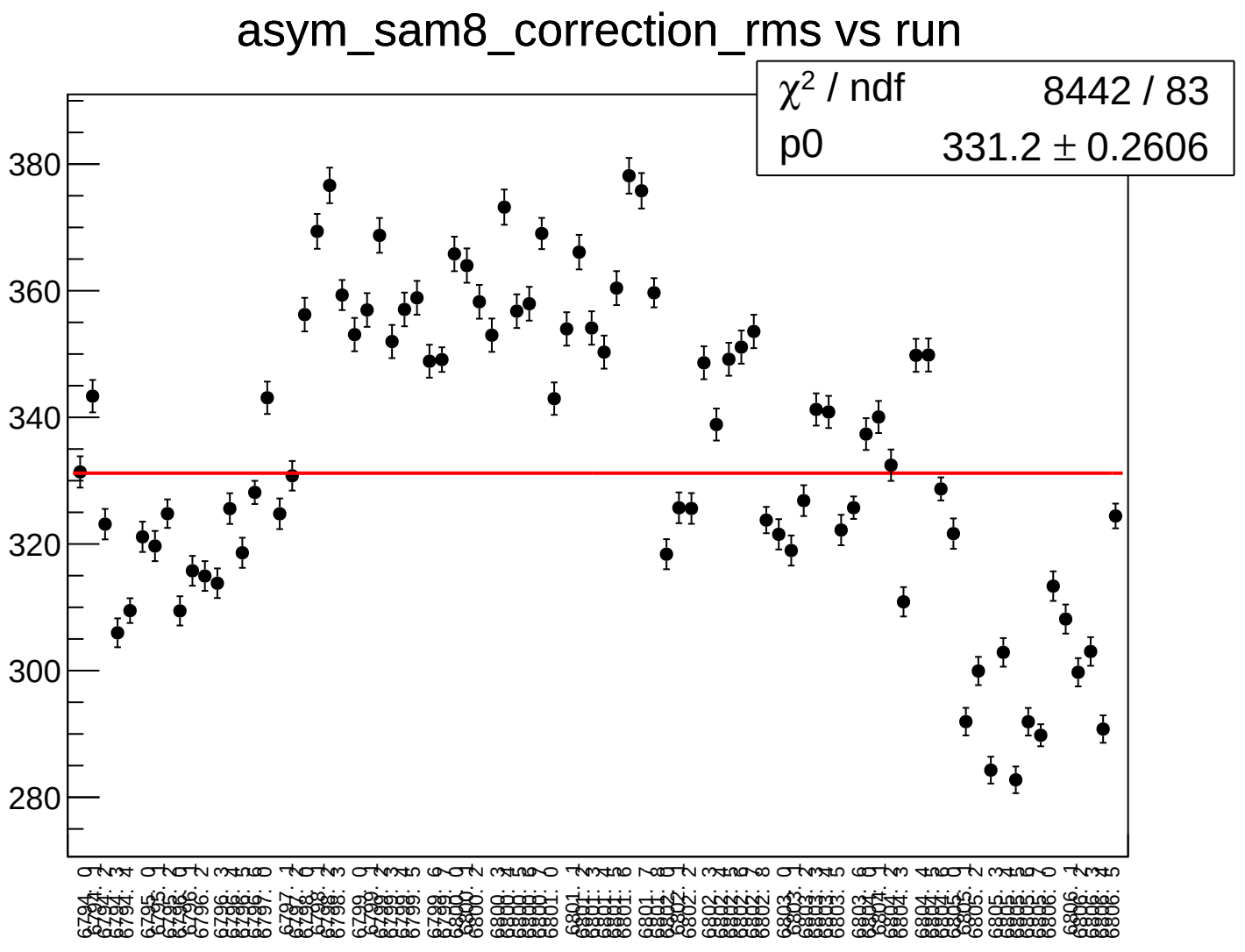

asym_sam7_correction_rms vs run
χ² / ndf 6972 / 83
p0 393.6 ± 0.3095
460
440
420
400
380
360
340

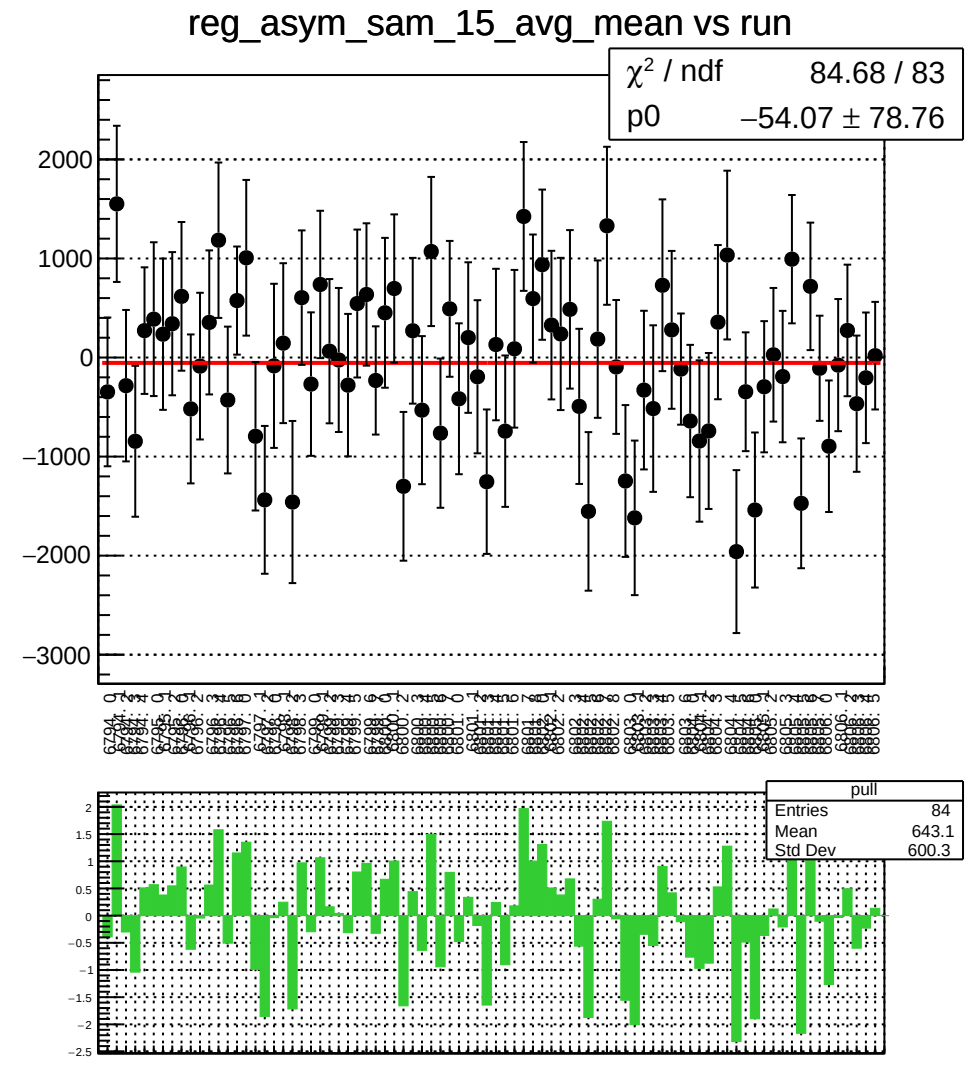

reg_asym_sam8_mean vs run
χ^2 / ndf 81.08 / 83
p0 50.16 ± 63.86
pull
Entries 84
Mean 328
Std Dev 291

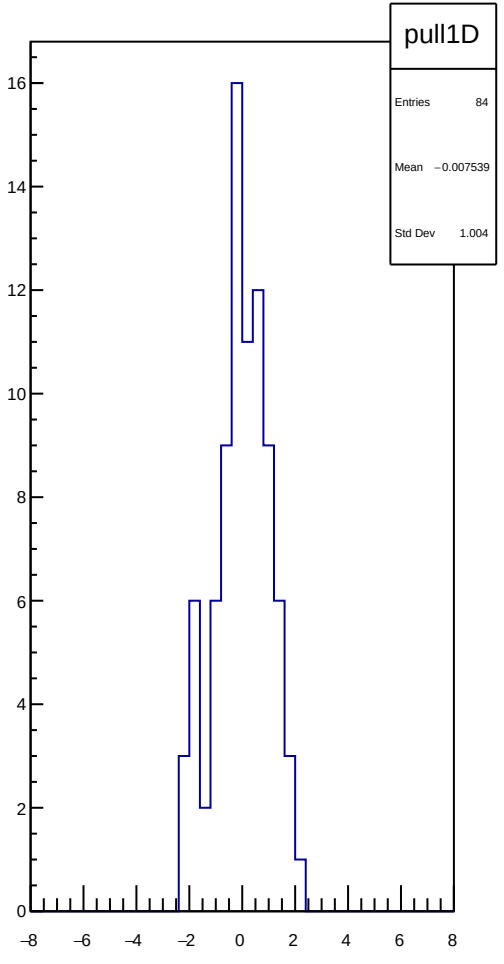

pull1D
Entries 84
Mean −0.01435
Std Dev 0.9824

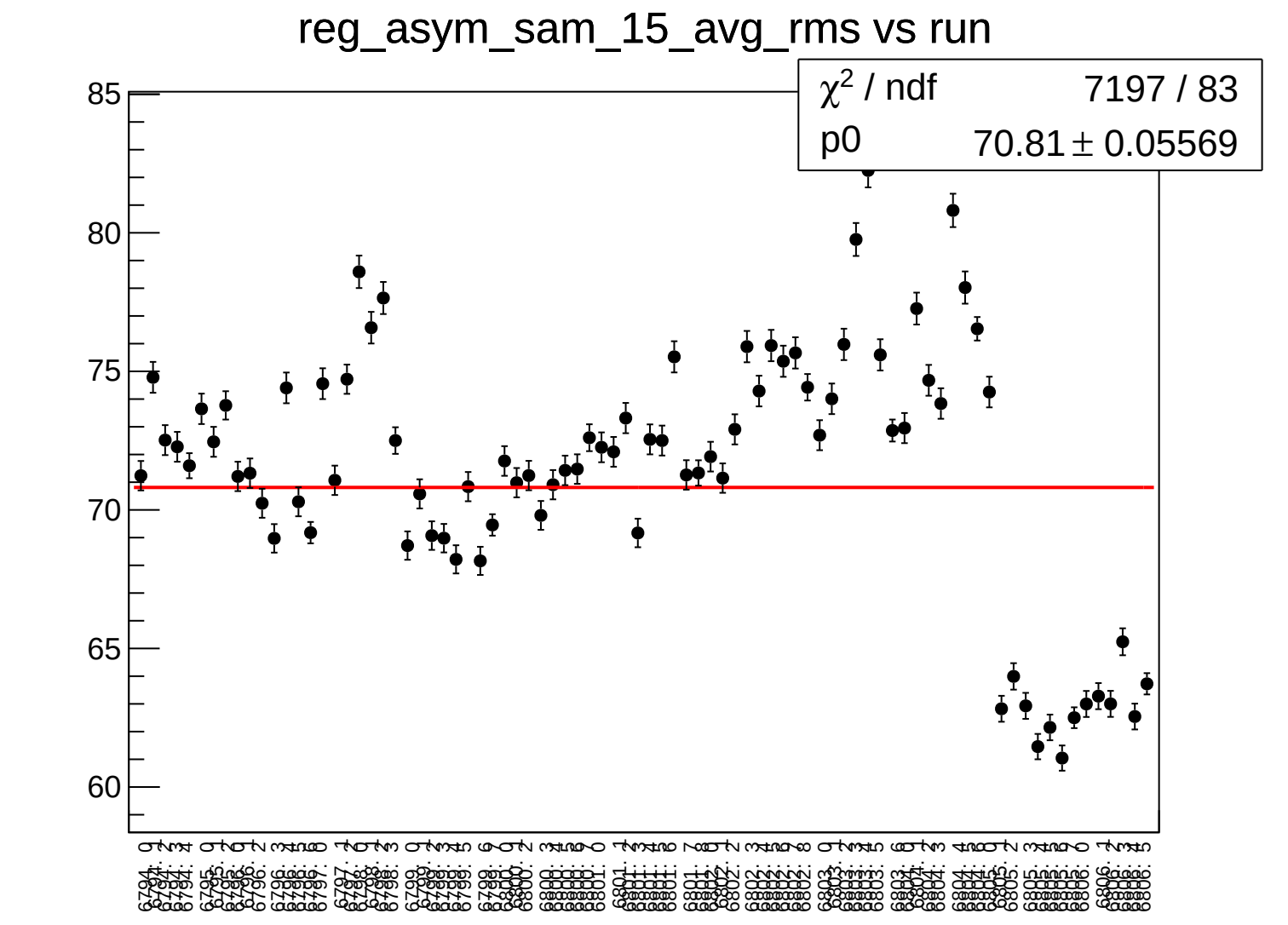

reg_asym_sam8_rms vs run
χ^2 / ndf 1313 / 83
p0 57.52 ± 0.04516
66
64
62
60
58
56
54

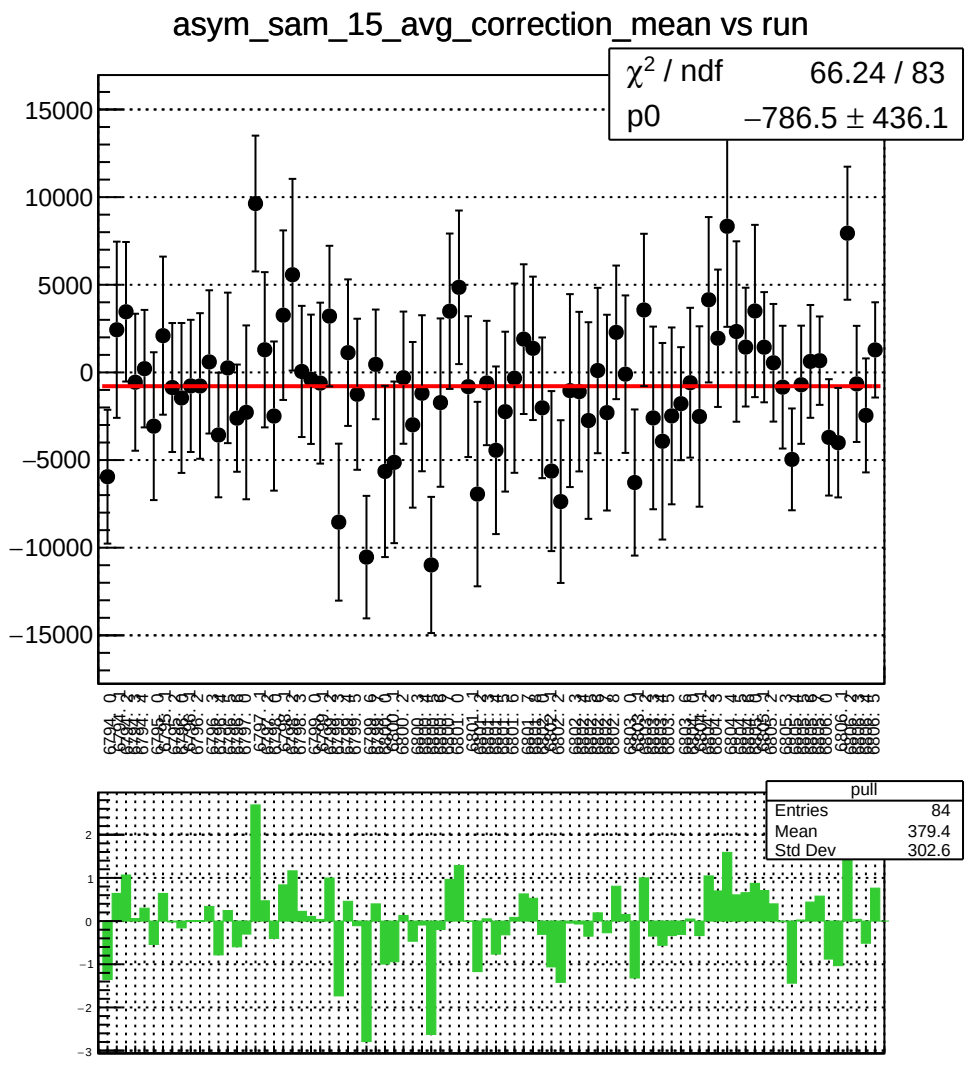

asym_sam8_correction_mean vs run
χ² / ndf 74.49 / 83
p0 122.3 ± 368.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −248.3
Std Dev 287.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.004143
Std Dev 0.9417
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

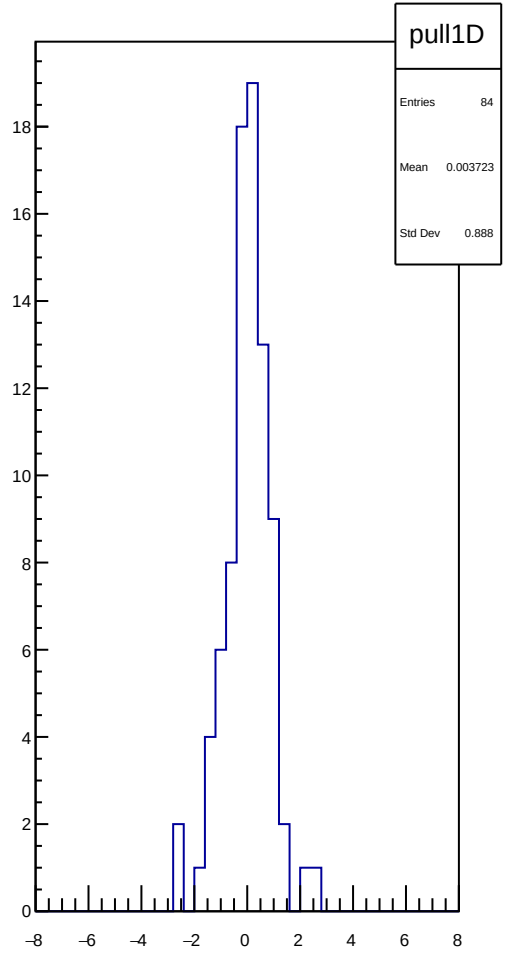

asym_sam8_correction_rms vs run
χ² / ndf 8442 / 83
p0 331.2 ± 0.2606
380
360
340
320
300
280

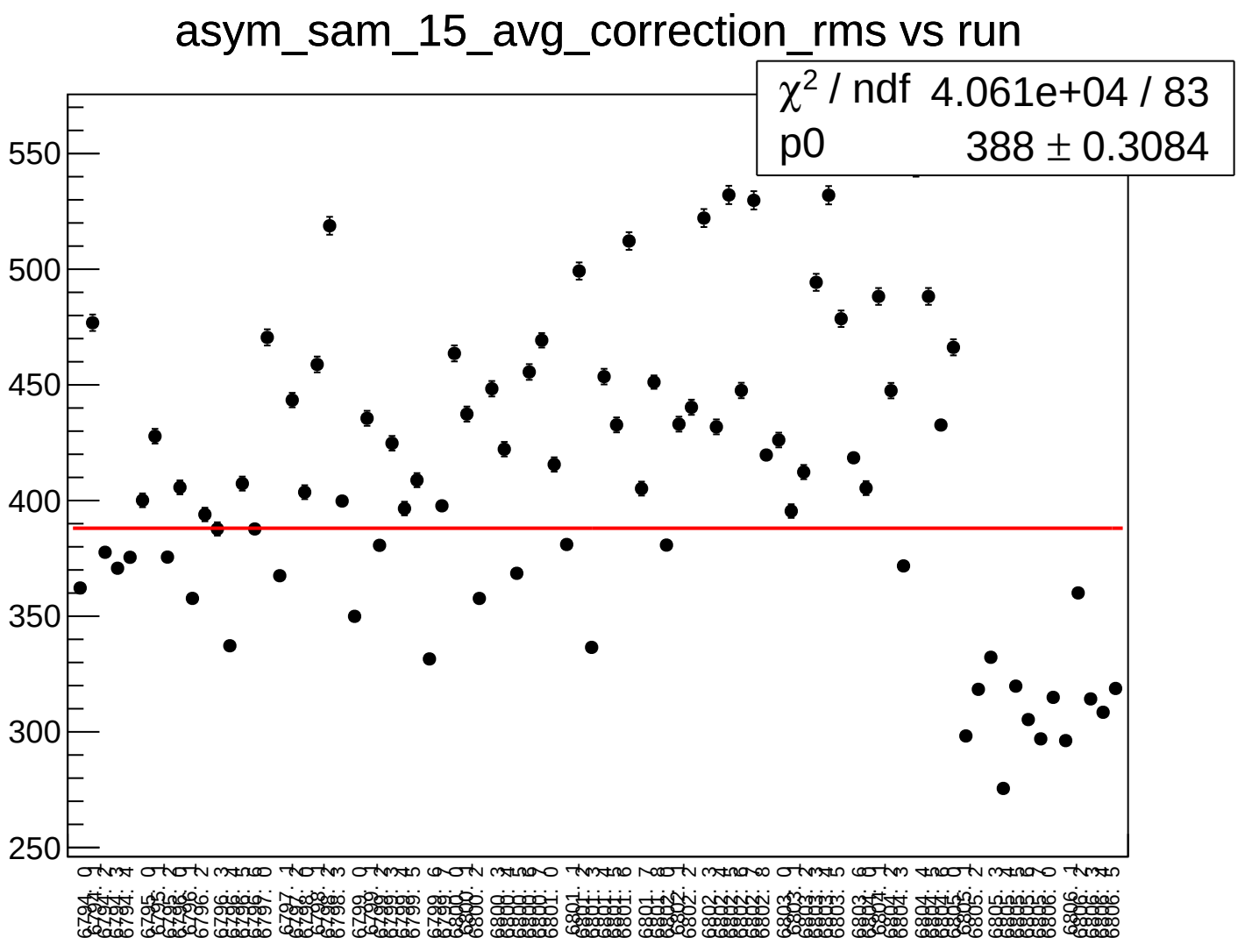

reg_asym_sam_15_avg_mean vs run
χ² / ndf 84.68 / 83
p0 −54.07 ± 78.76
pull
Entries 84
Mean 643.1
Std Dev 600.3

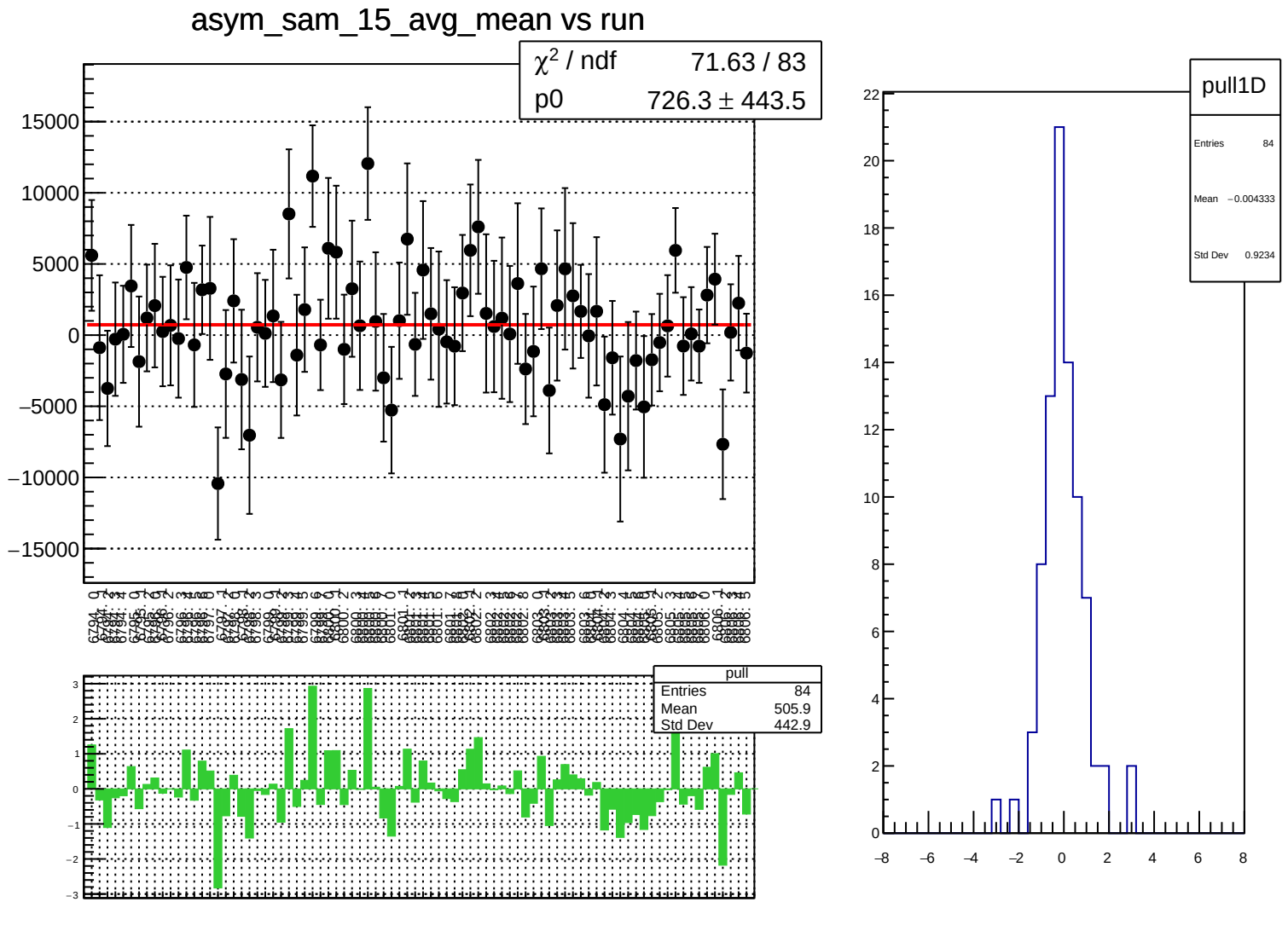

pull1D
Entries 84
Mean −0.007539
Std Dev 1.004

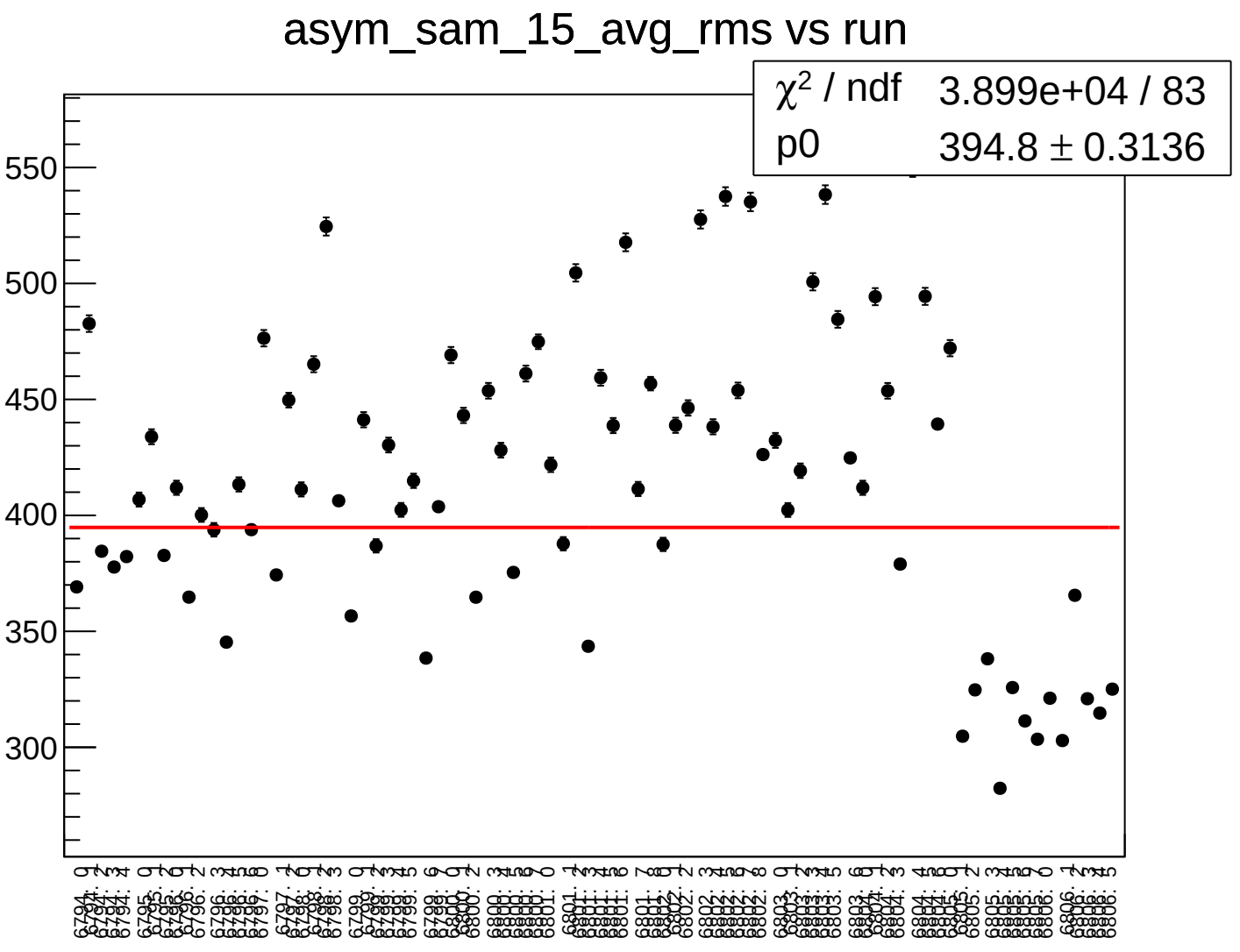

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 7197 / 83
p0 70.81 ± 0.05569
85
80
75
70
65
60

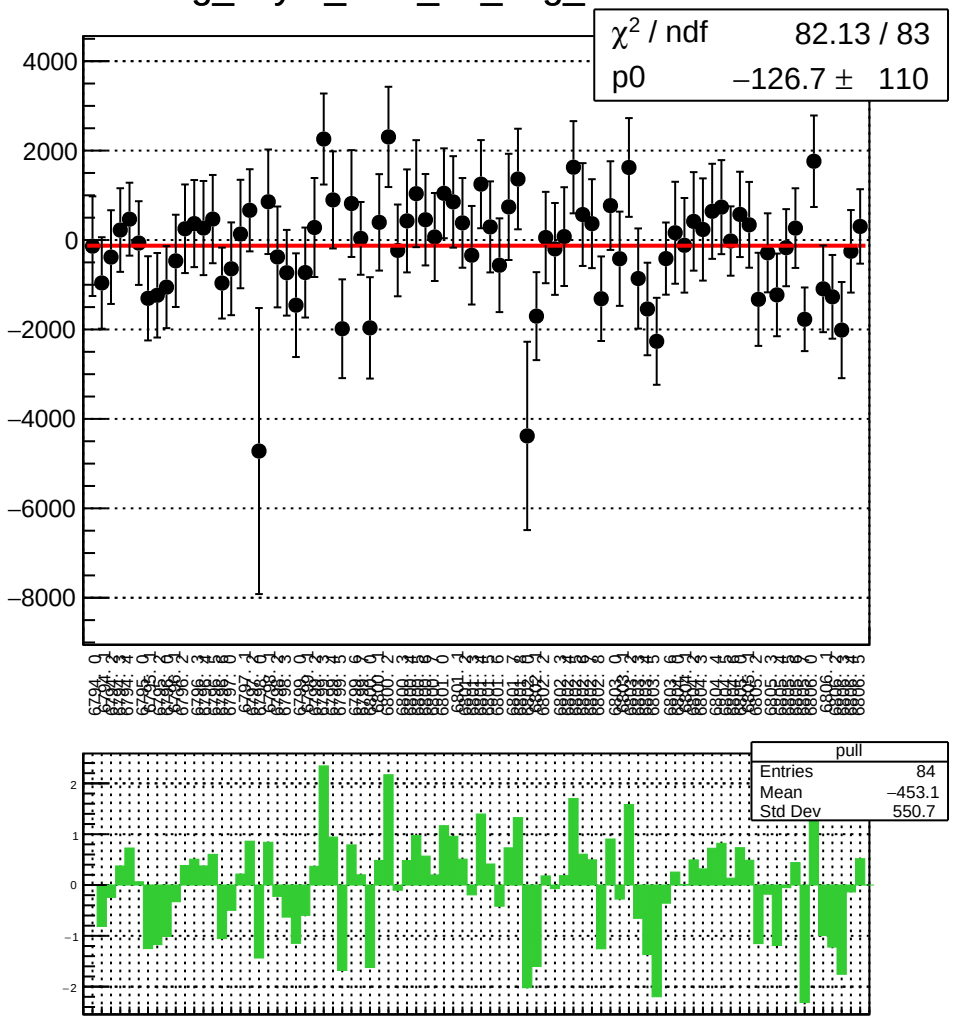

asym_sam_15_avg_correction_mean vs run
χ² / ndf 66.24 / 83
p0 −786.5 ± 436.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 379.4
Std Dev 302.6
2
1
0
−1
−2
−3

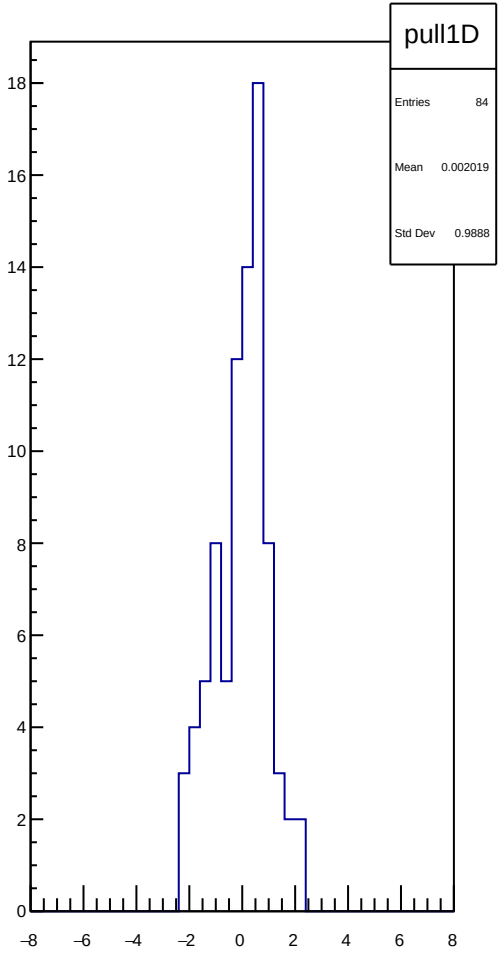

pull1D
Entries 84
Mean 0.003723
Std Dev 0.888
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

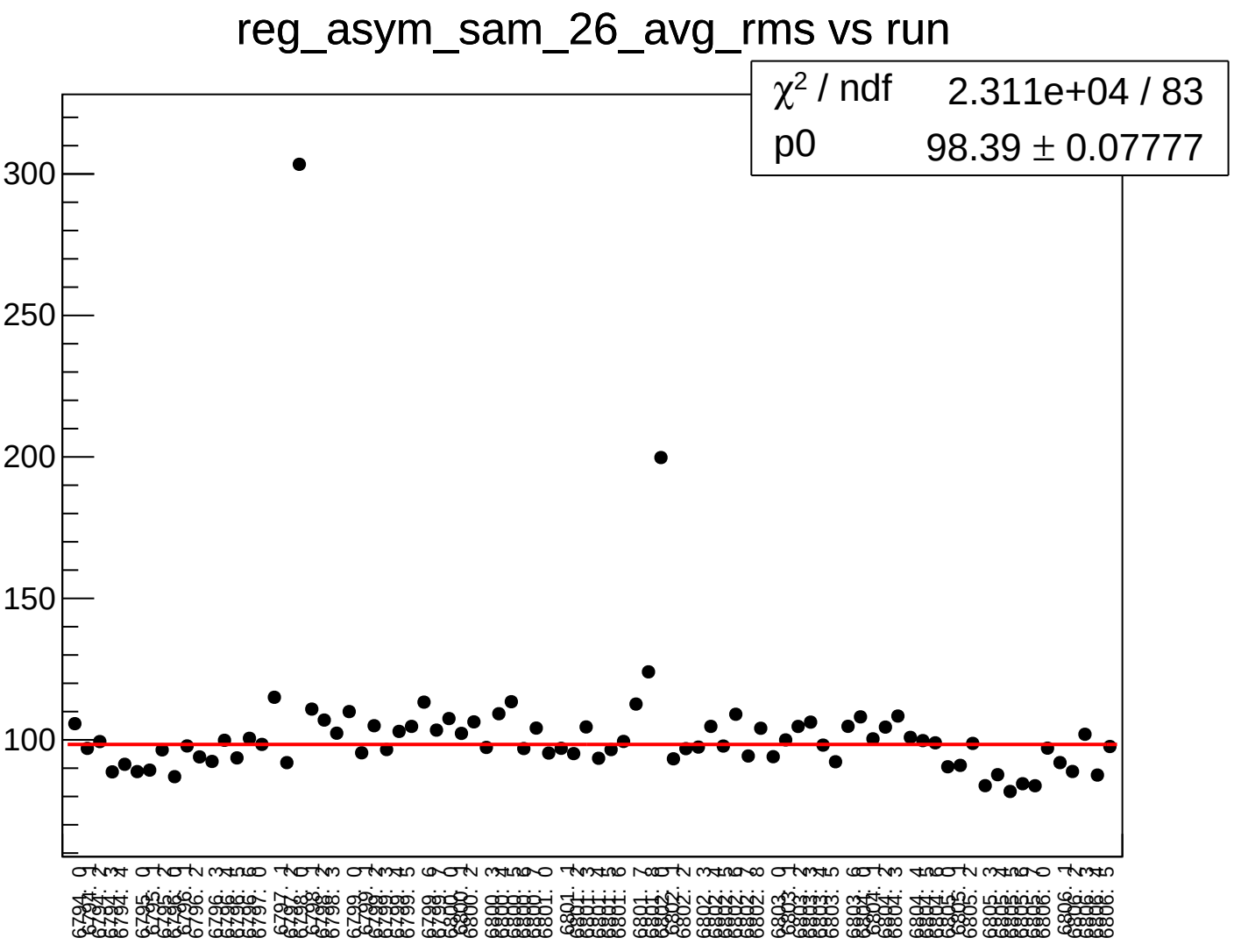

asym_sam_15_avg_correction_rms vs run
χ² / ndf 4.061e+04 / 83
p0 388 ± 0.3084
550
500
450
400
350
300
250

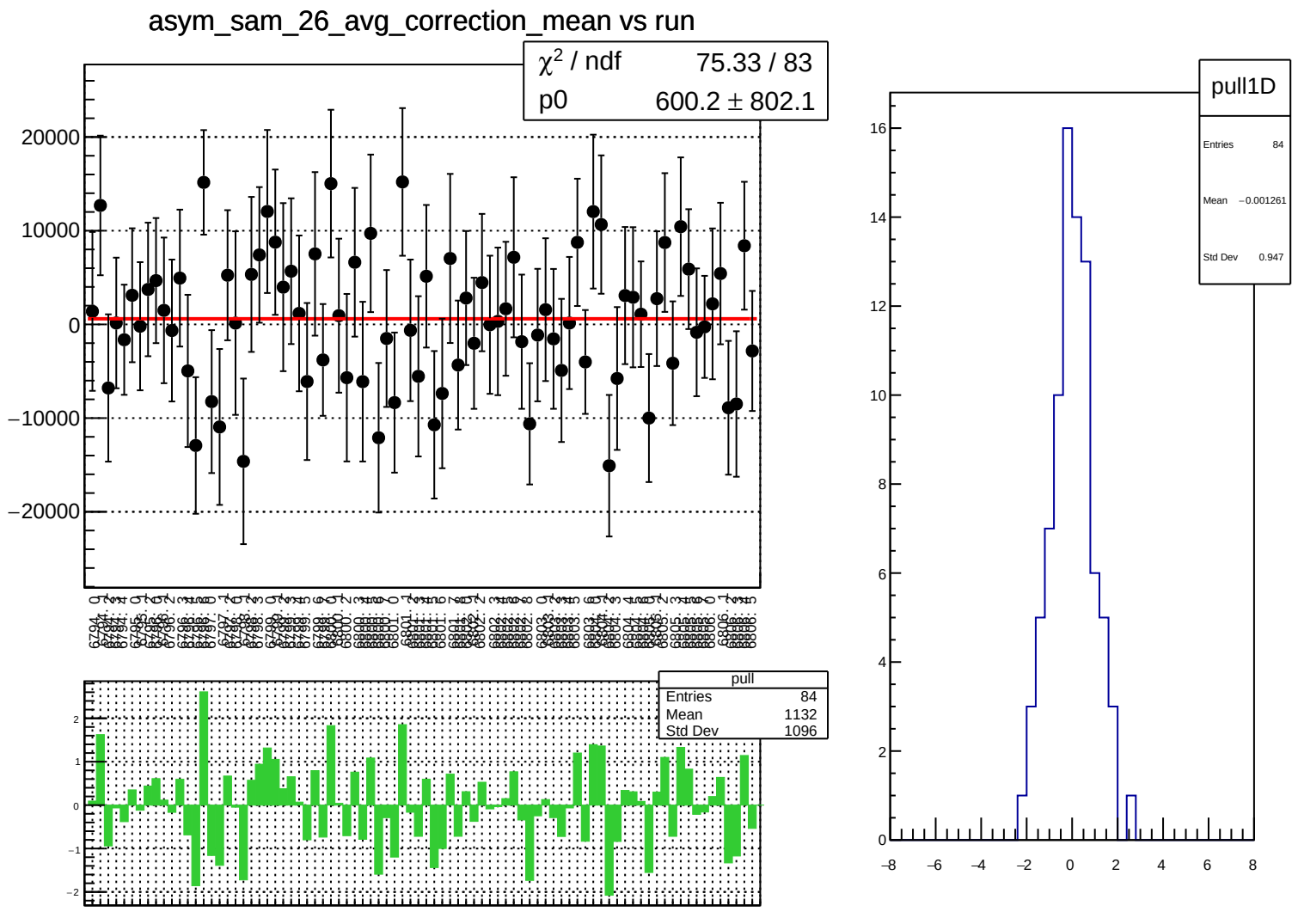

asym_sam_15_avg_mean vs run
χ² / ndf 71.63 / 83
p0 726.3 ± 443.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 505.9
Std Dev 442.9
3
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.004333
Std Dev 0.9234
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

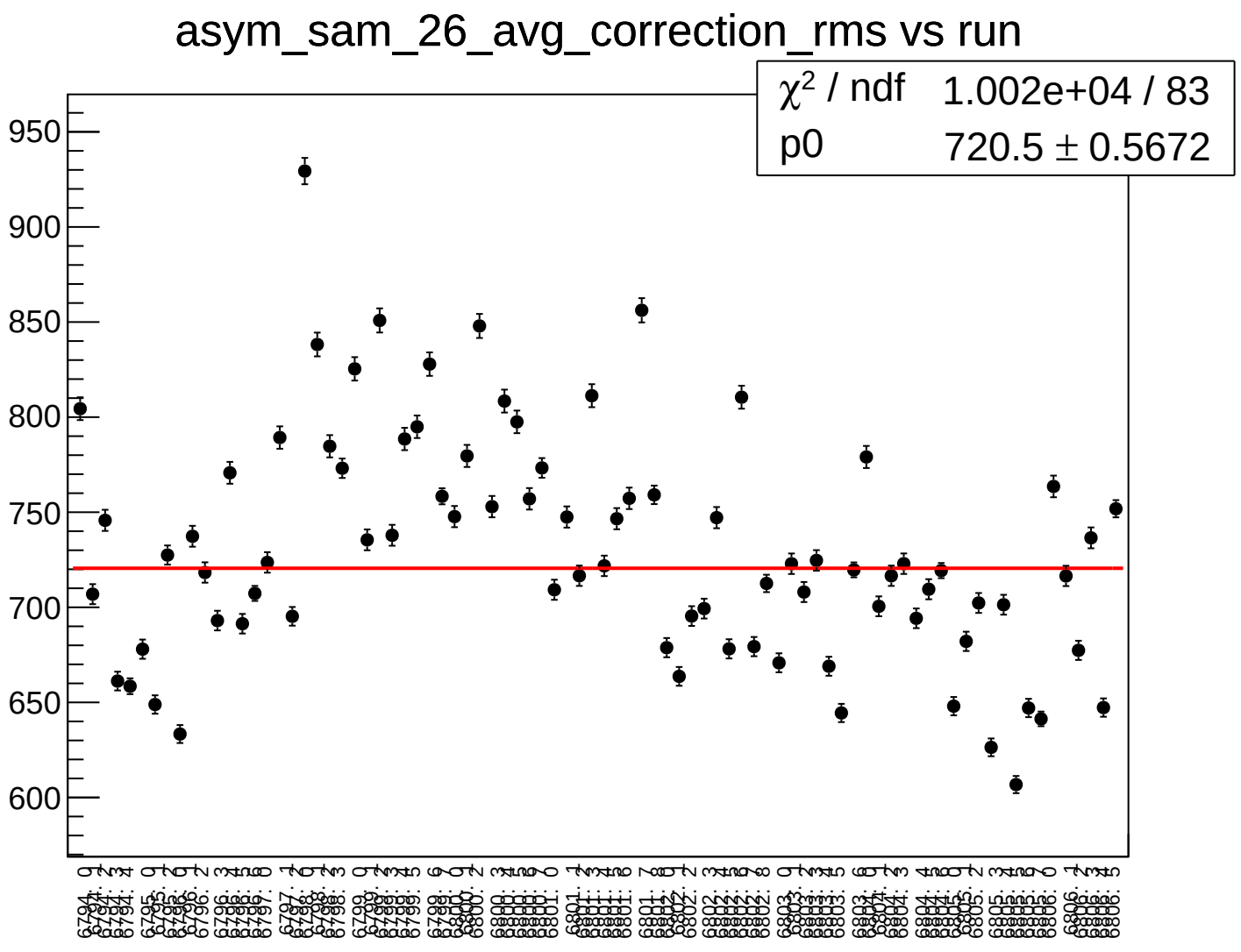

asym_sam_15_avg_rms vs run
χ^2 / ndf 3.899e+04 / 83
p0 394.8 ± 0.3136
550
500
450
400
350
300

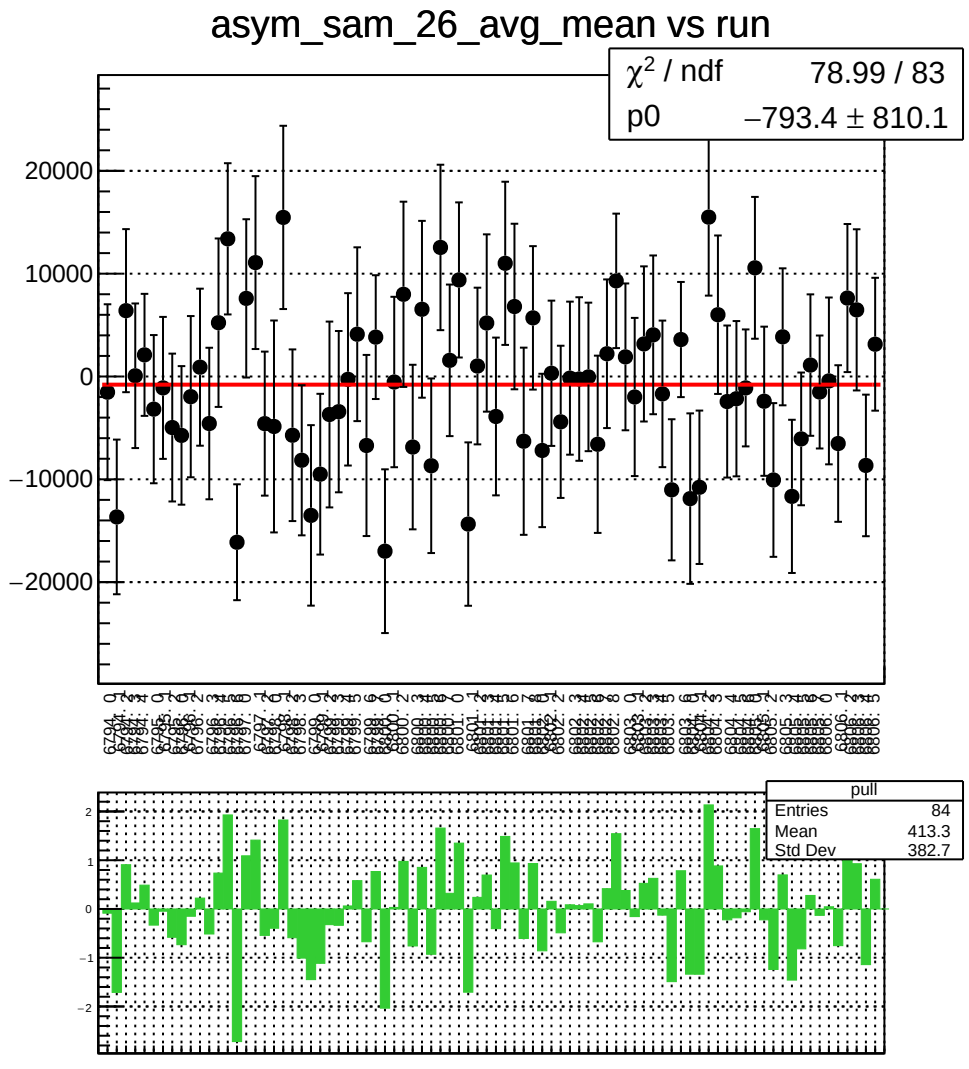

reg_asym_sam_26_avg_mean vs run
χ² / ndf 82.13 / 83
p0 −126.7 ± 110
pull
Entries 84
Mean −453.1
Std Dev 550.7

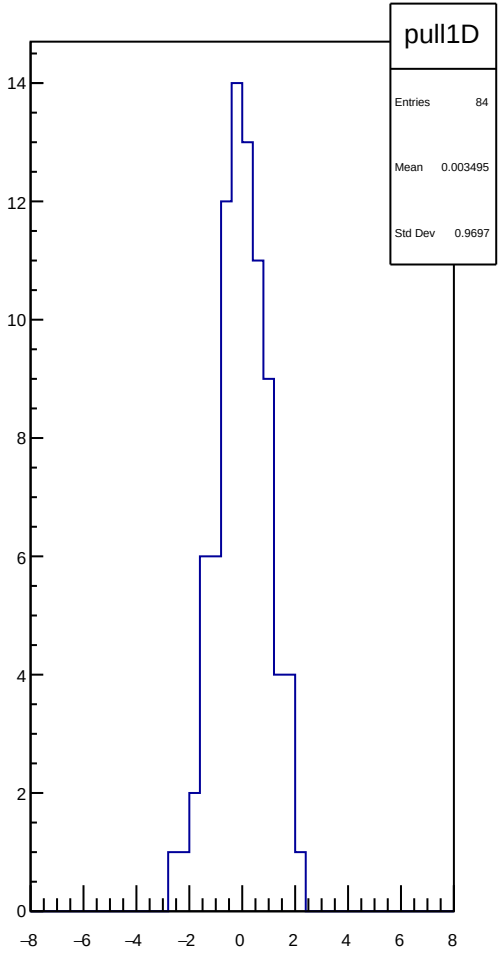

pull1D
Entries 84
Mean 0.002019
Std Dev 0.9888

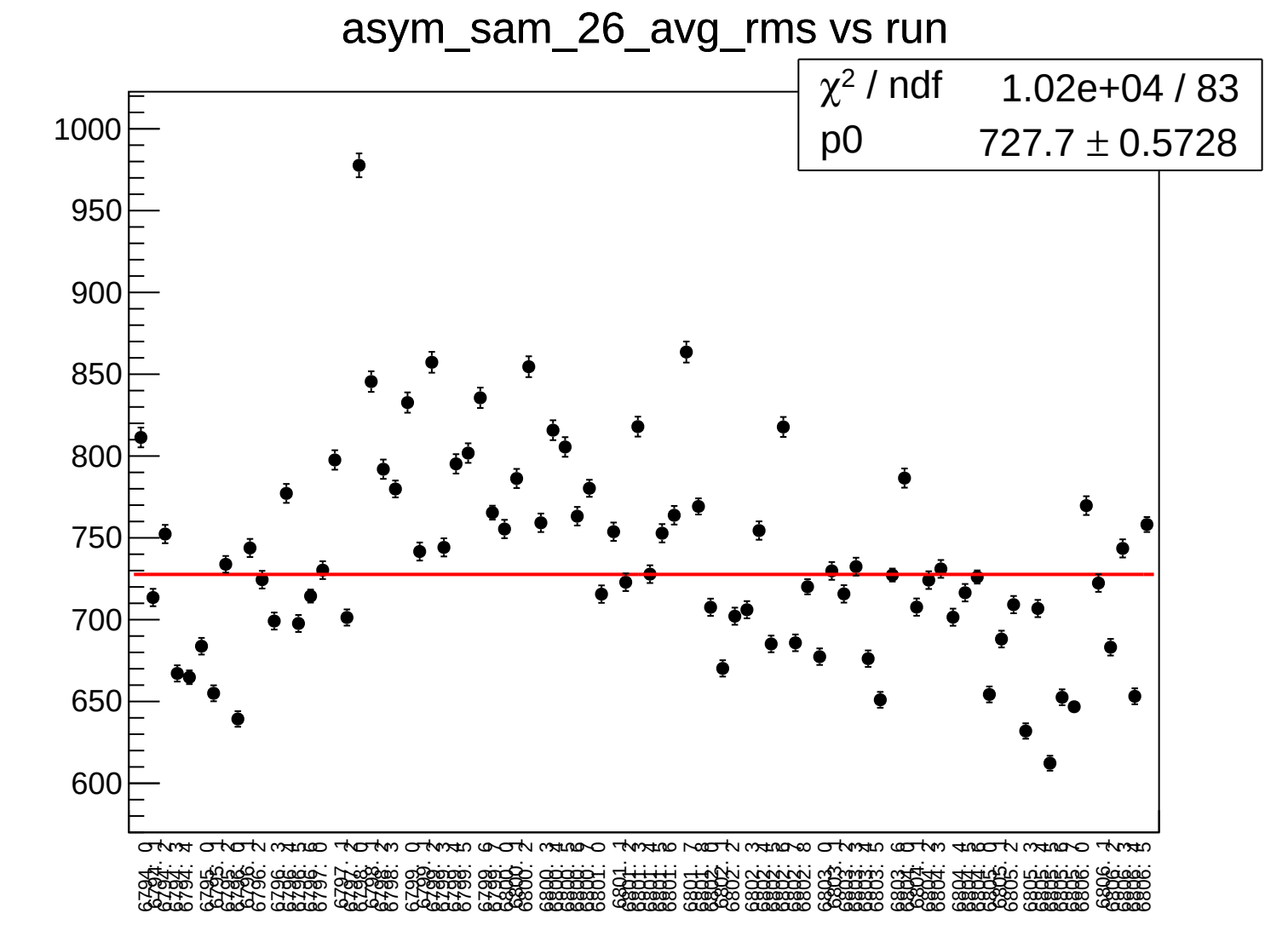

reg_asym_sam_26_avg_rms vs run
χ² / ndf 2.311e+04 / 83
p0 98.39 ± 0.07777
300
250
200
150
100

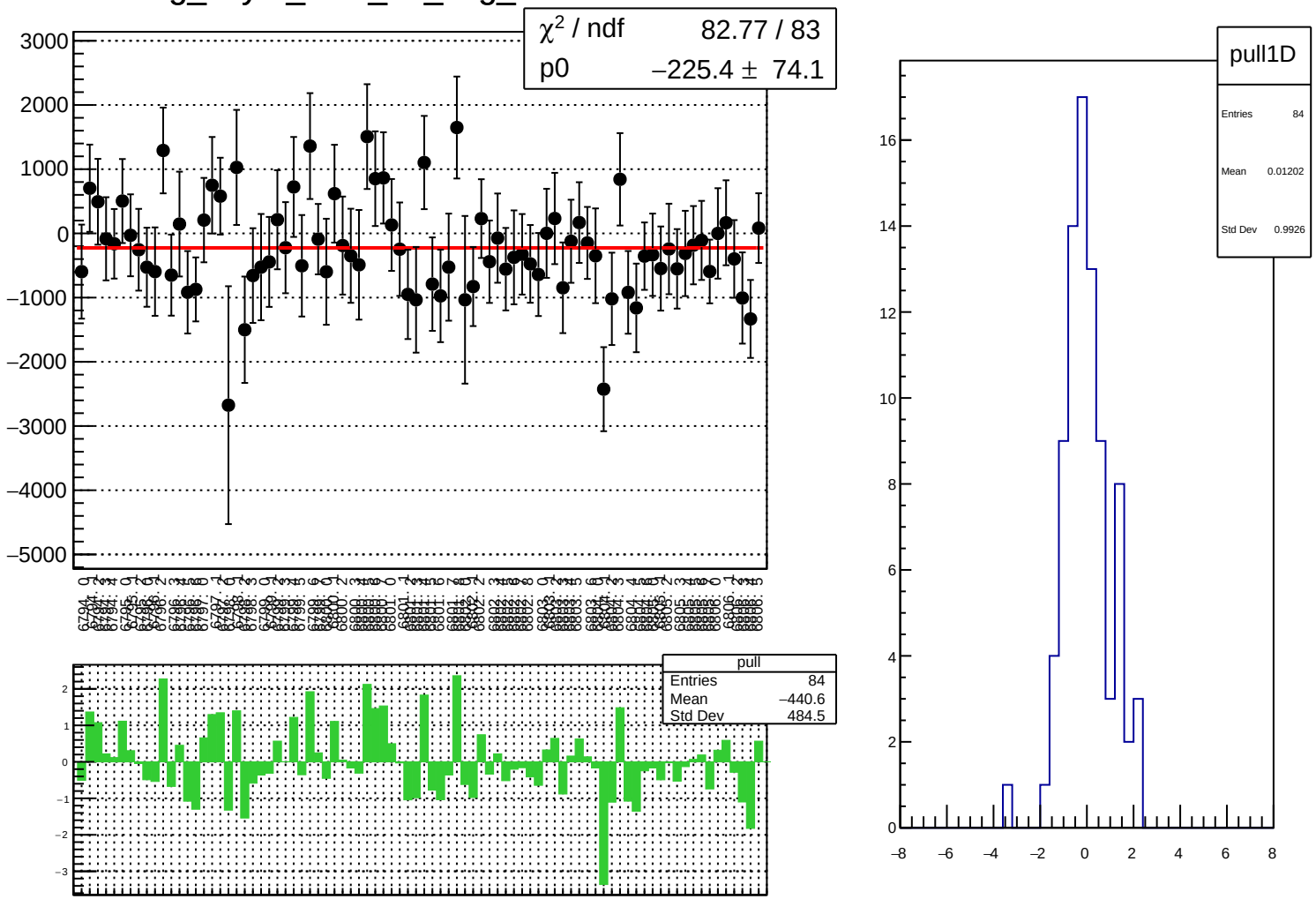

asym_sam_26_avg_correction_mean vs run
χ² / ndf 75.33 / 83
p0 600.2 ± 802.1
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 1132
Std Dev 1096
pull1D
Entries 84
Mean −0.001261
Std Dev 0.947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

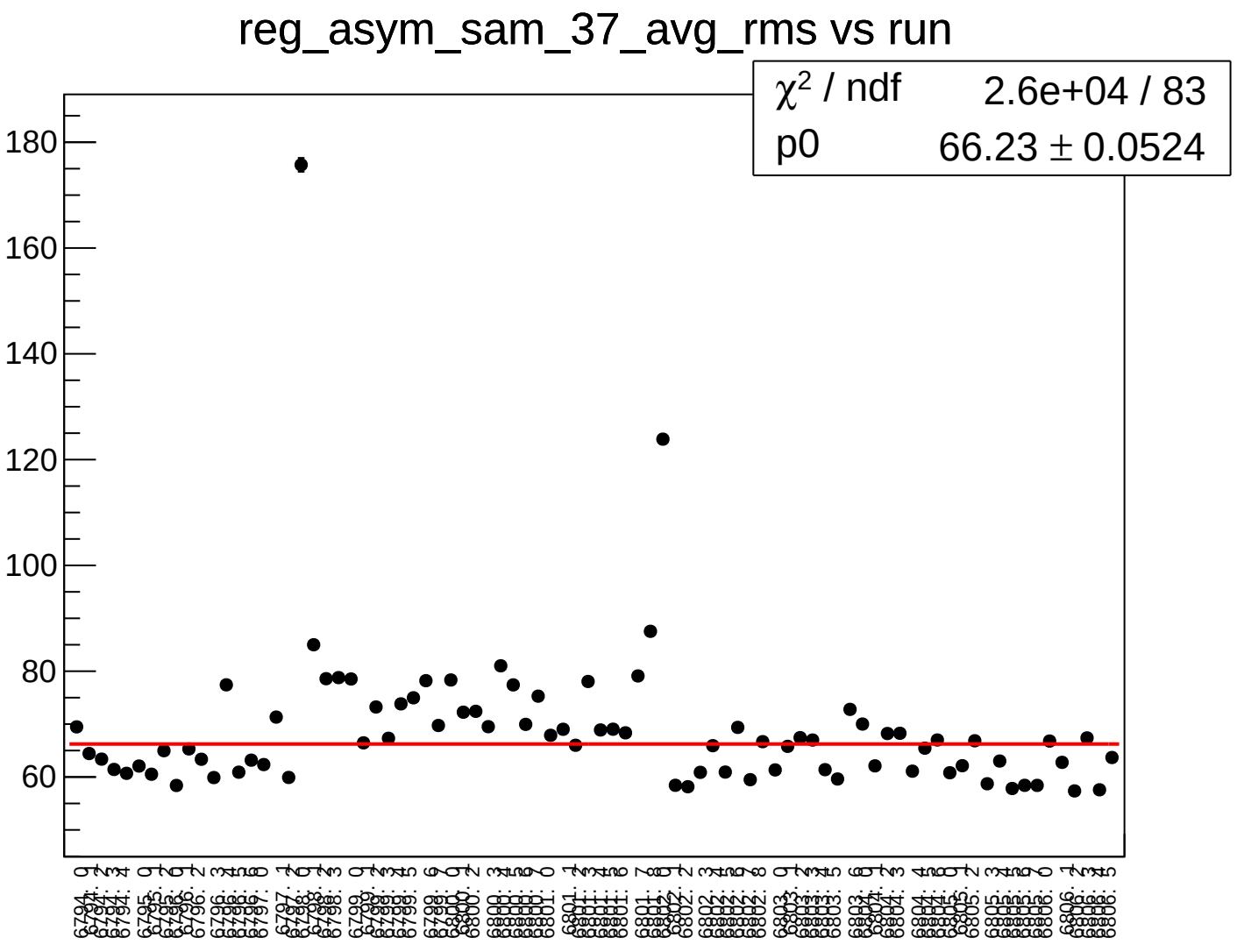

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1.002e+04 / 83
p0 720.5 ± 0.5672
950
900
850
800
750
700
650
600

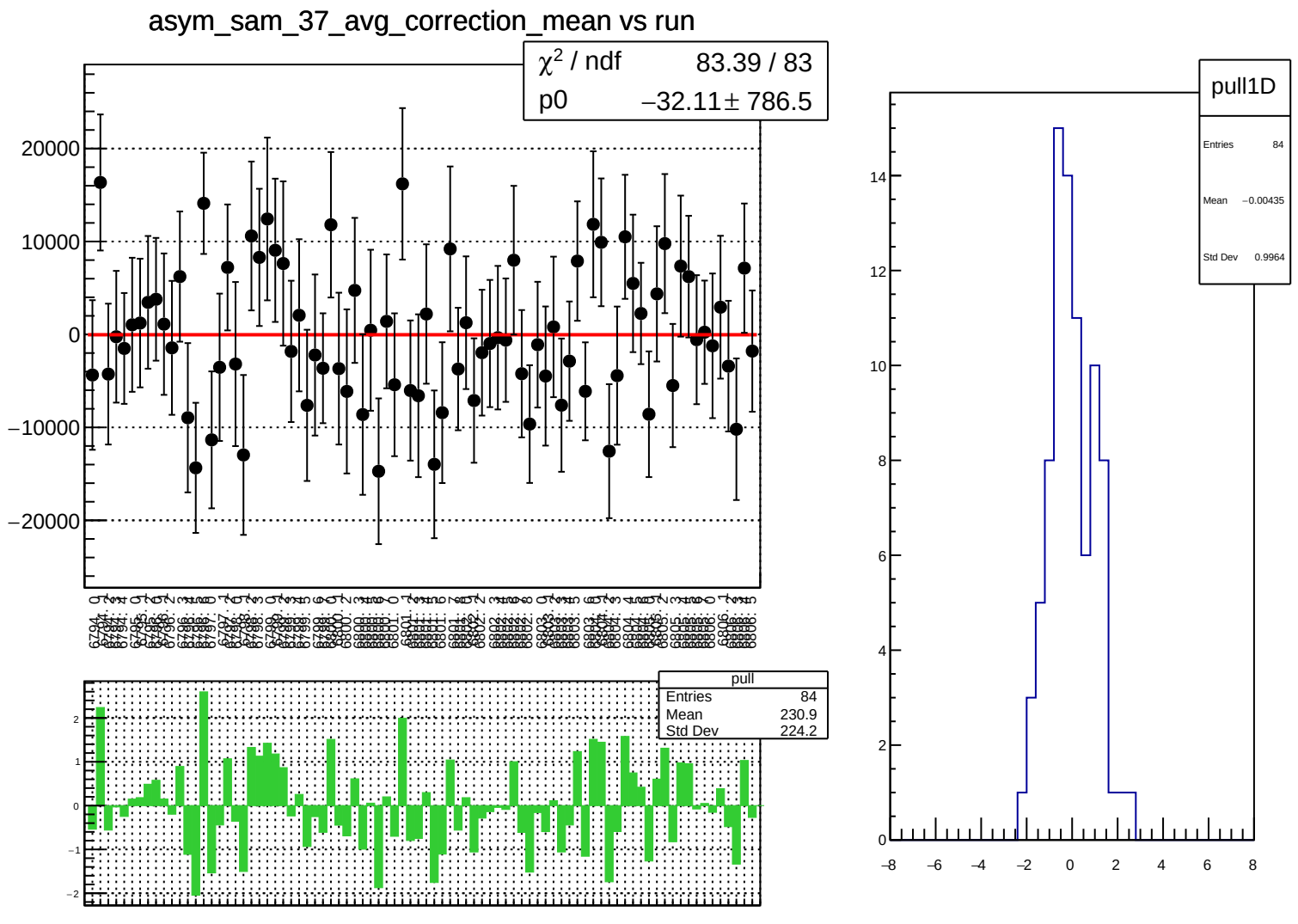

asym_sam_26_avg_mean vs run
χ² / ndf 78.99 / 83
p0 −793.4 ± 810.1
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 413.3
Std Dev 382.7
2
1
0
−1
−2

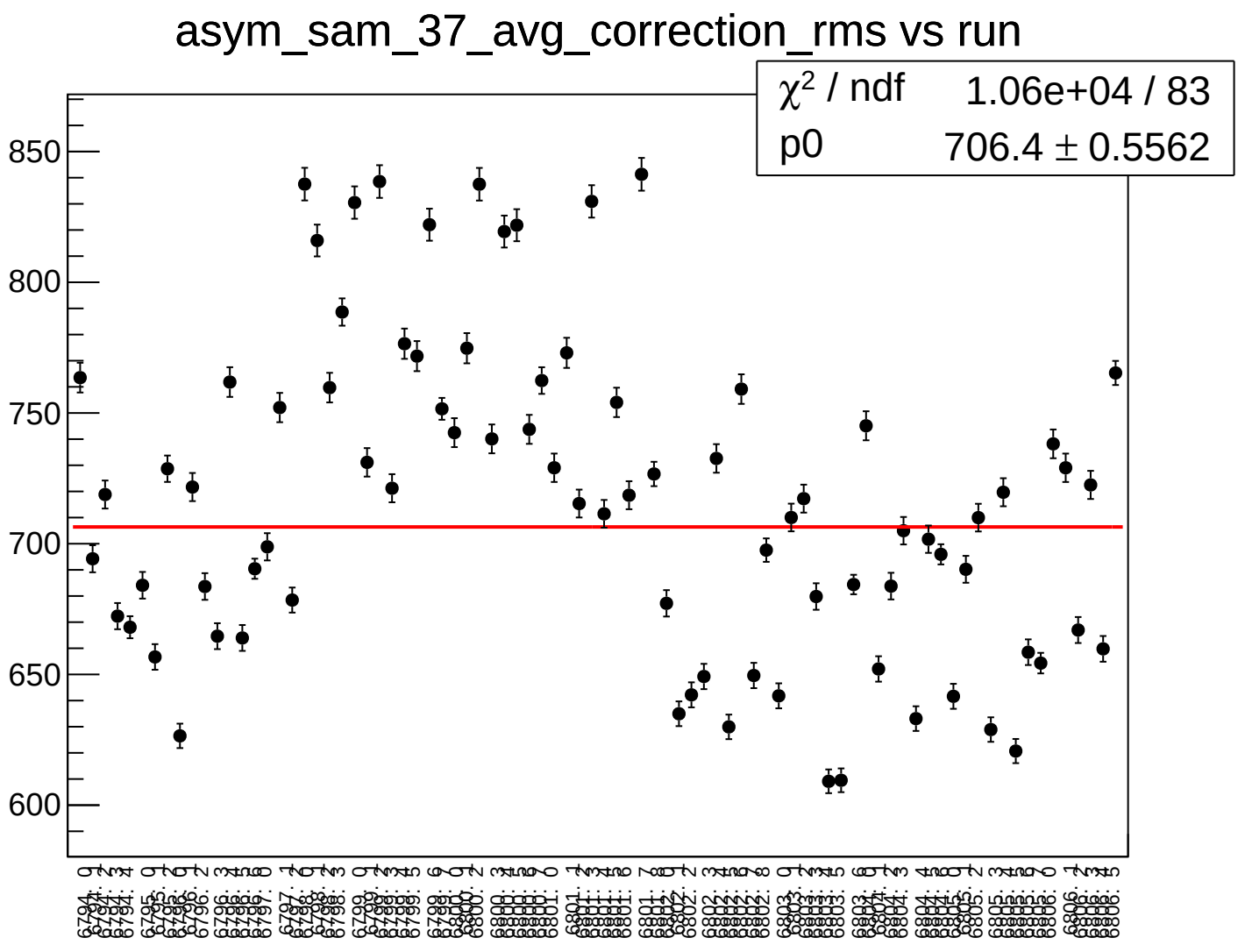

pull1D
Entries 84
Mean 0.003495
Std Dev 0.9697
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

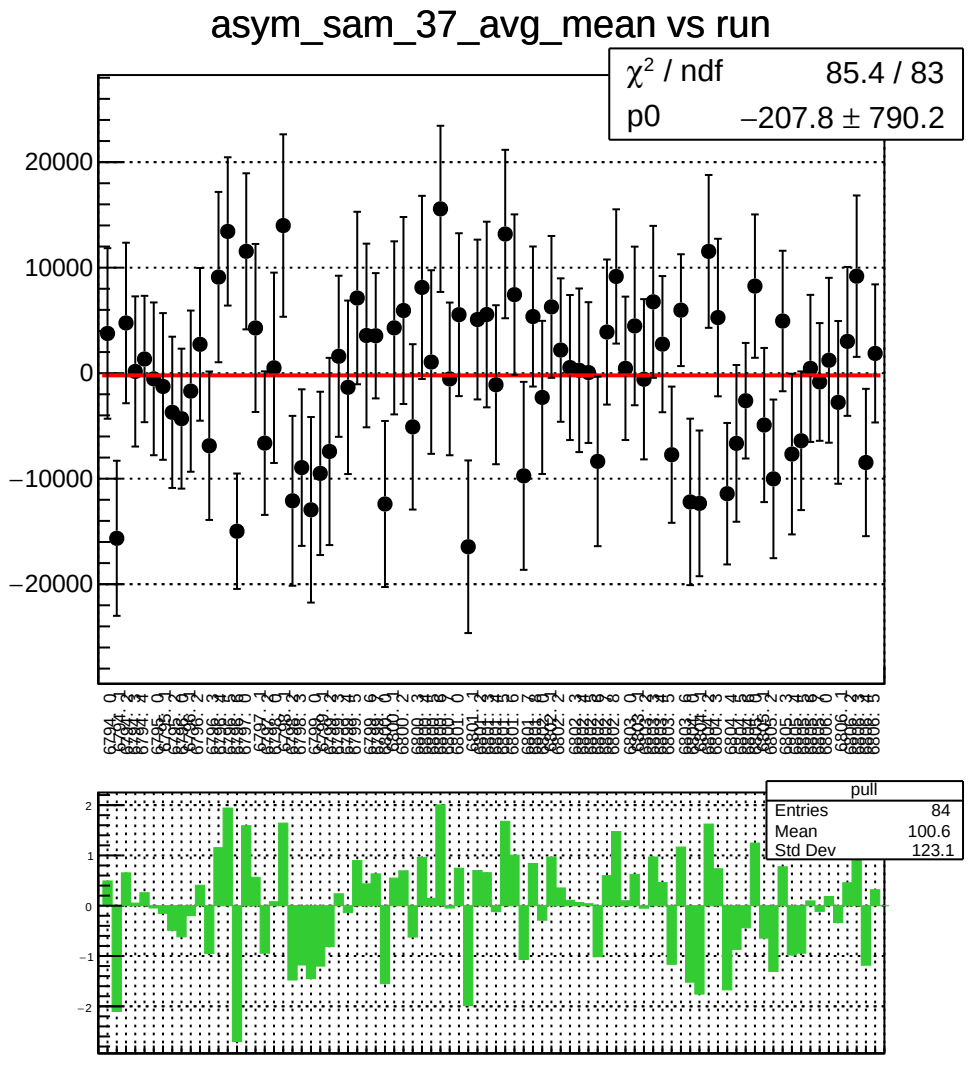

asym_sam_26_avg_rms vs run
χ² / ndf 1.02e+04 / 83
p0 727.7 ± 0.5728
1000
950
900
850
800
750
700
650
600

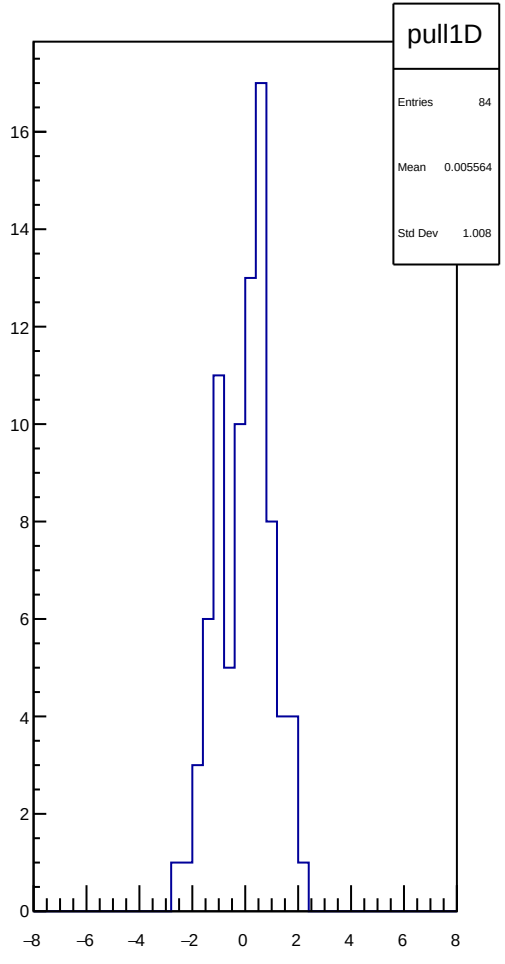

reg_asym_sam_37_avg_mean vs run
χ² / ndf 82.77 / 83
p0 −225.4 ± 74.1
pull
Entries 84
Mean −440.6
Std Dev 484.5
pull1D
Entries 84
Mean 0.01202
Std Dev 0.9926

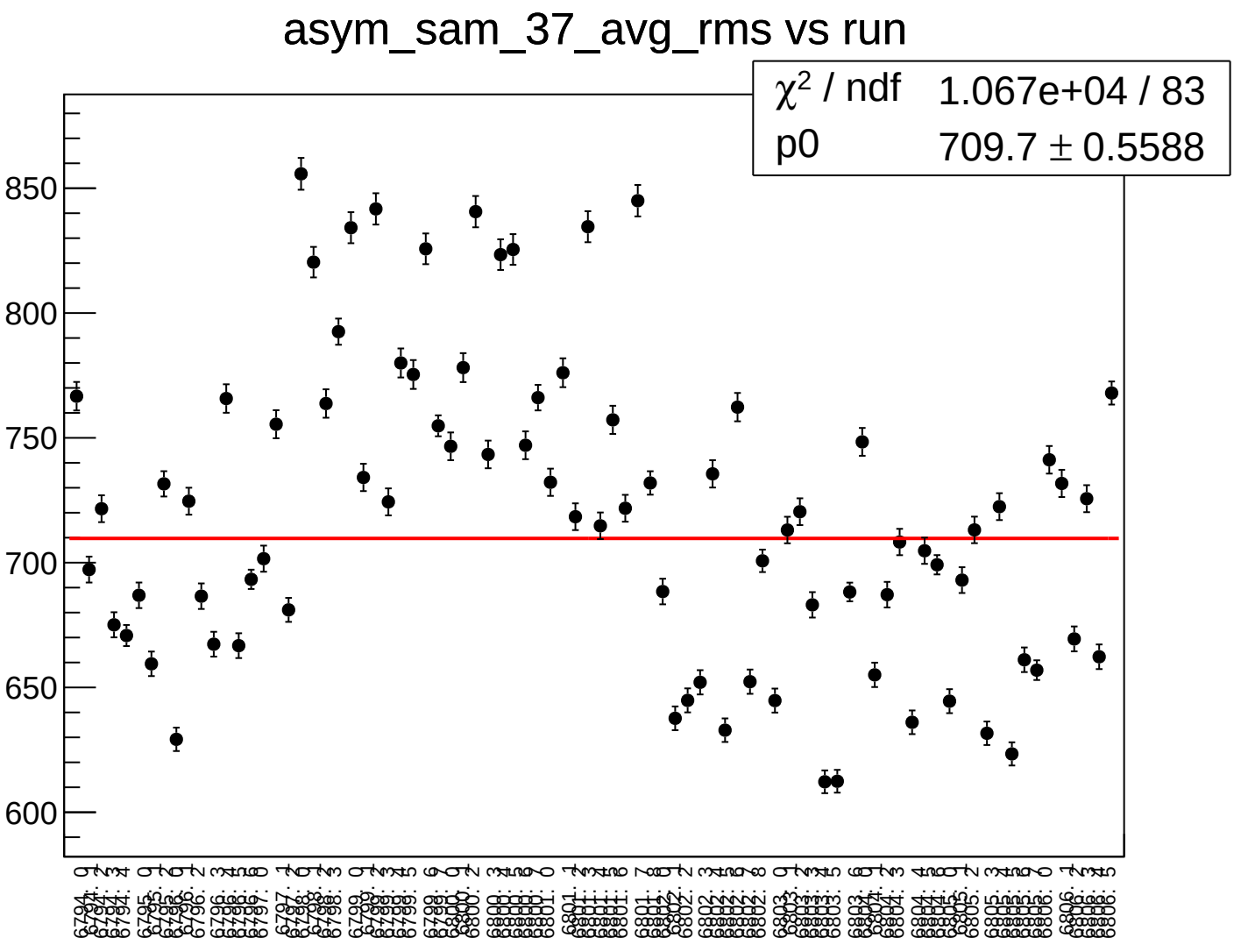

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.6e+04 / 83
p0 66.23 ± 0.0524
180
160
140
120
100
80
60

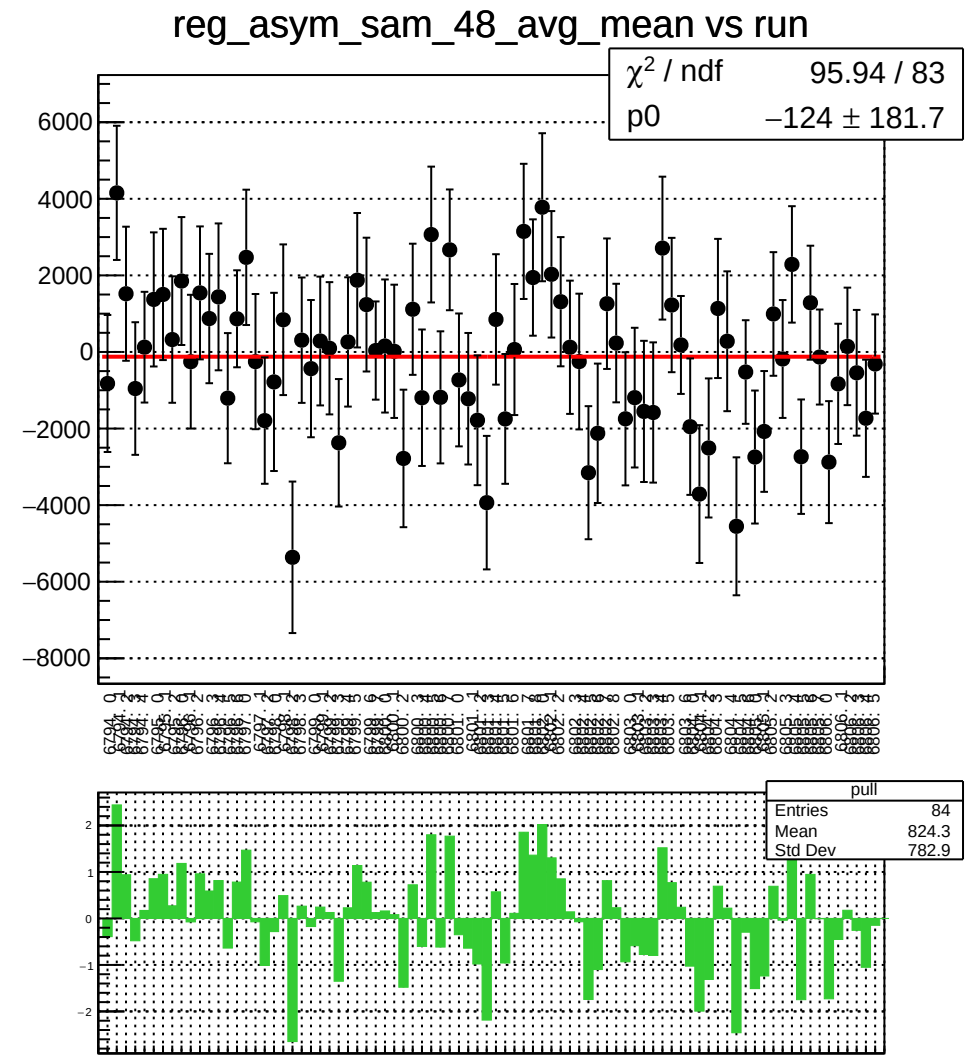

asym_sam_37_avg_correction_mean vs run
χ² / ndf 83.39 / 83
p0 −32.11± 786.5
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 230.9
Std Dev 224.2
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.00435
Std Dev 0.9964
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

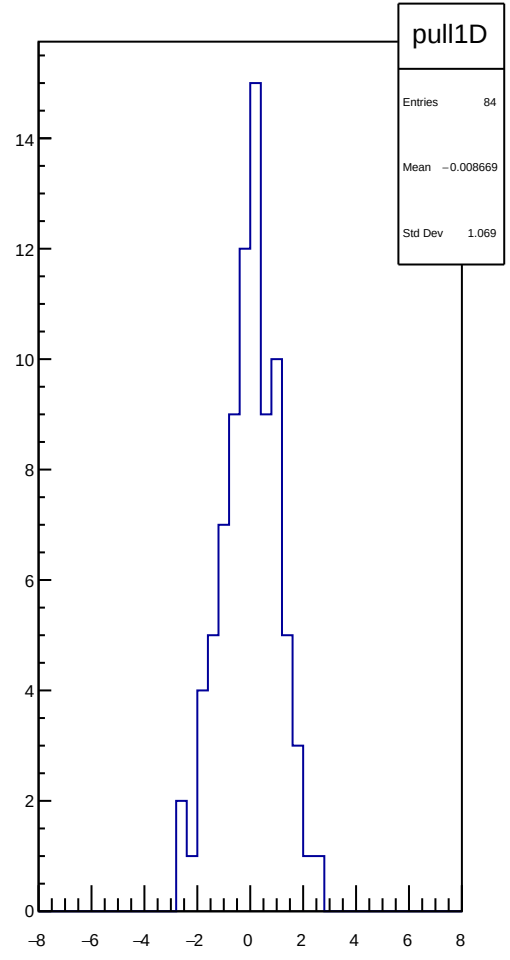

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1.06e+04 / 83
p0 706.4 ± 0.5562
850
800
750
700
650
600

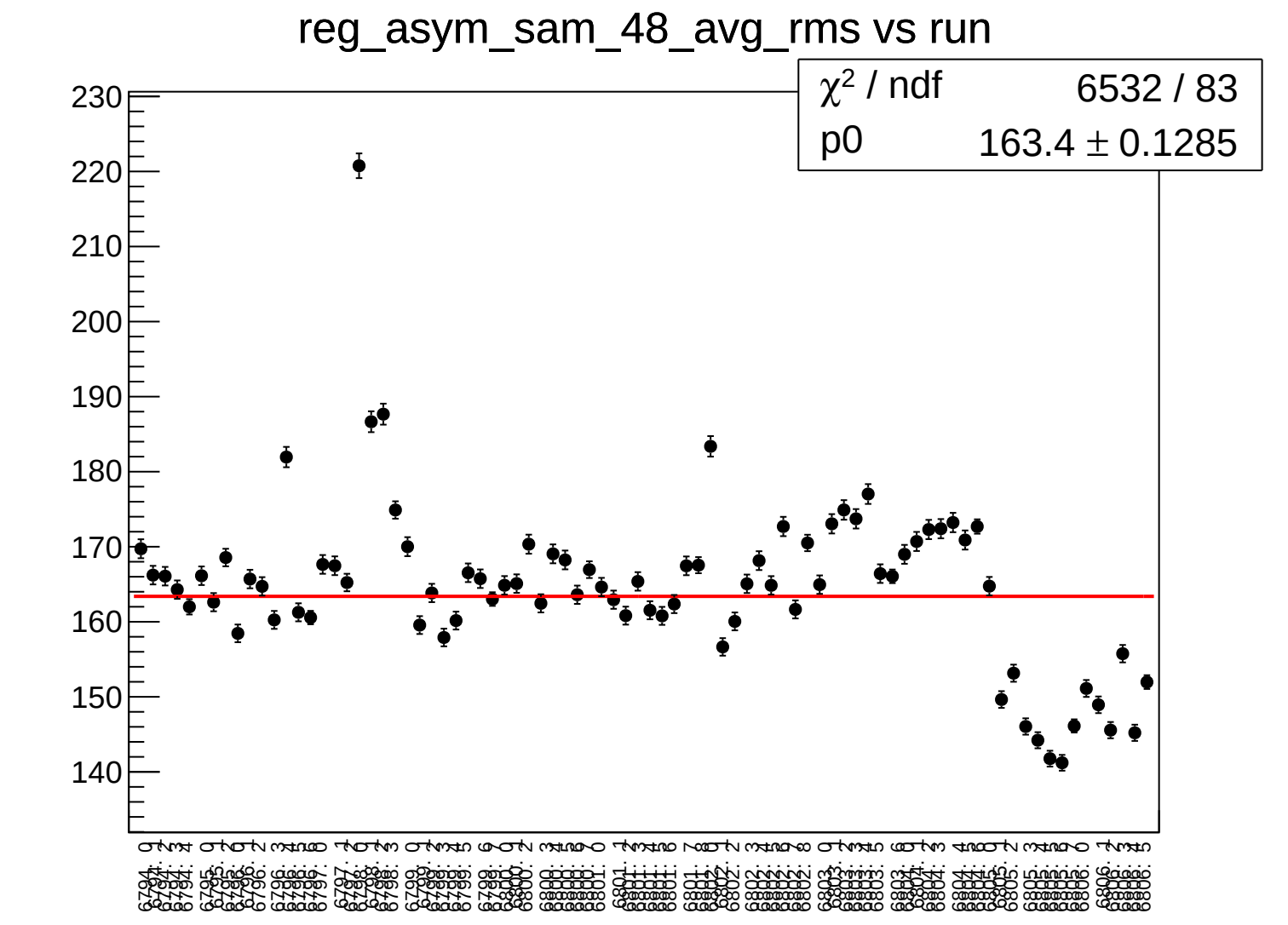

asym_sam_37_avg_mean vs run
χ² / ndf 85.4 / 83
p0 −207.8 ± 790.2
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 100.6
Std Dev 123.1
2
1
0
−1
−2

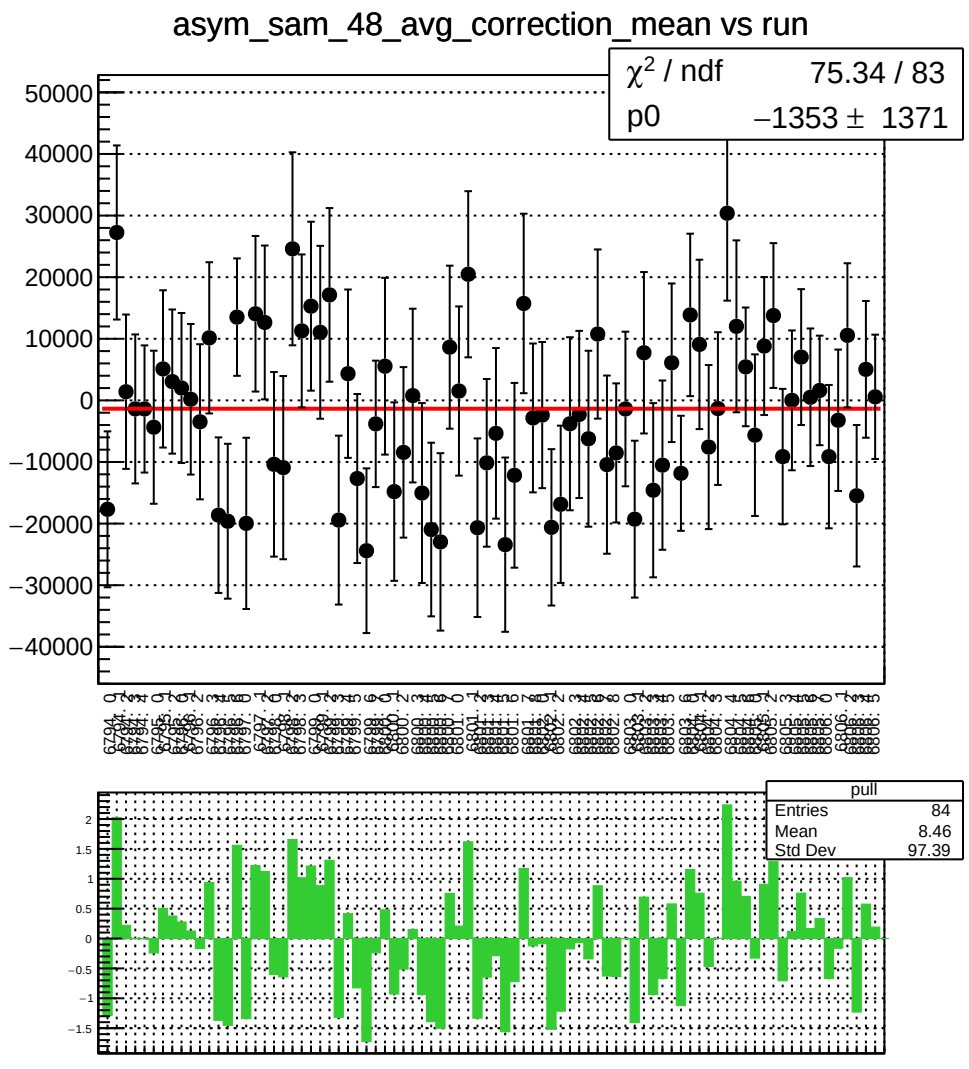

pull1D
Entries 84
Mean 0.005564
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

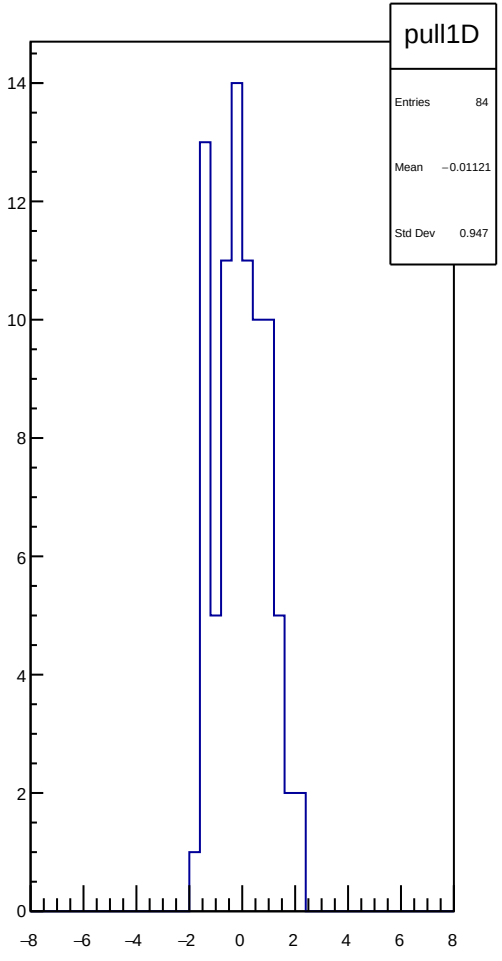

asym_sam_37_avg_rms vs run
χ^2 / ndf 1.067e+04 / 83
p0 709.7 ± 0.5588
850
800
750
700
650
600

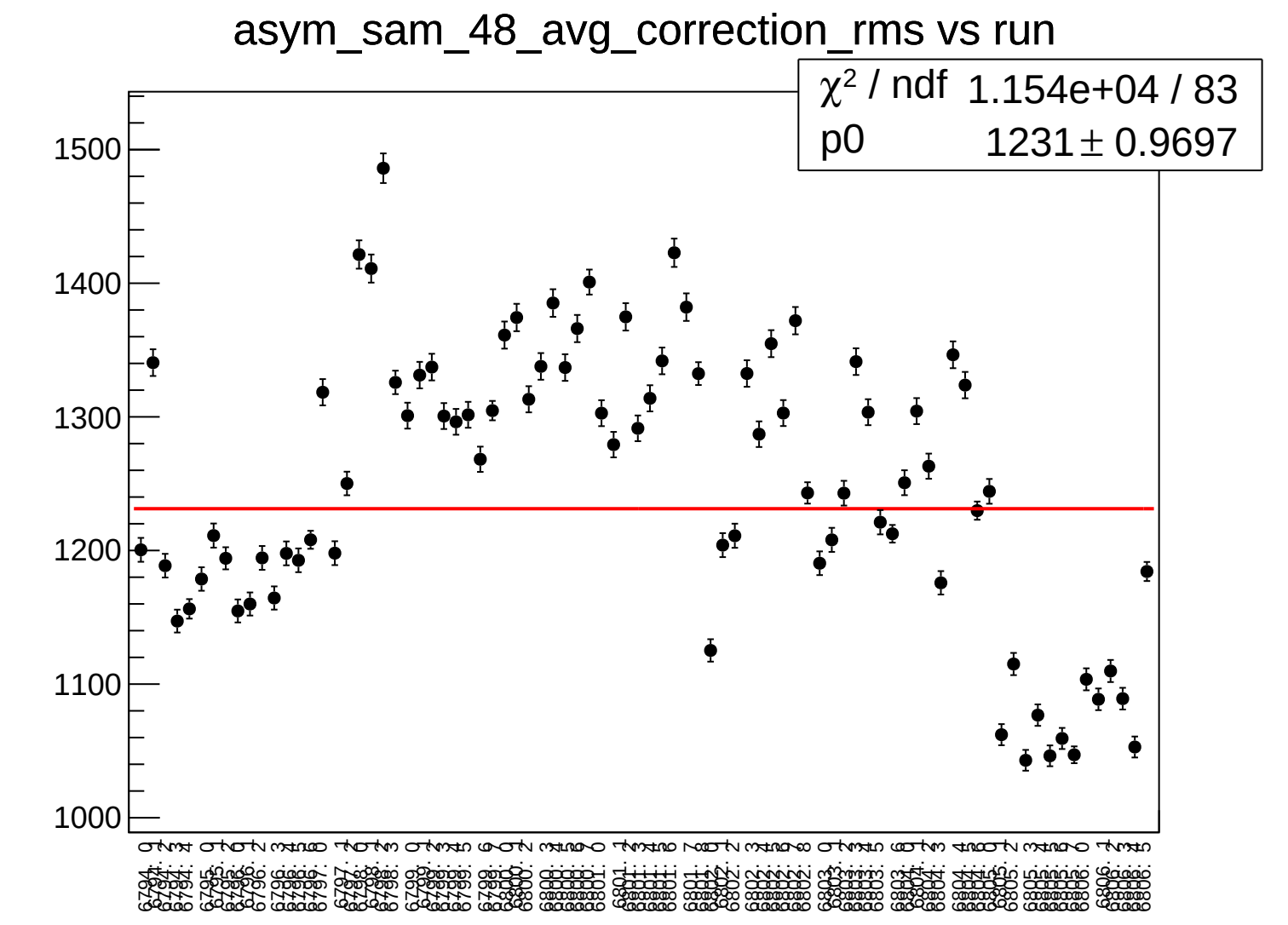

reg_asym_sam_48_avg_mean vs run
χ² / ndf 95.94 / 83
p0 −124 ± 181.7
pull
Entries 84
Mean 824.3
Std Dev 782.9

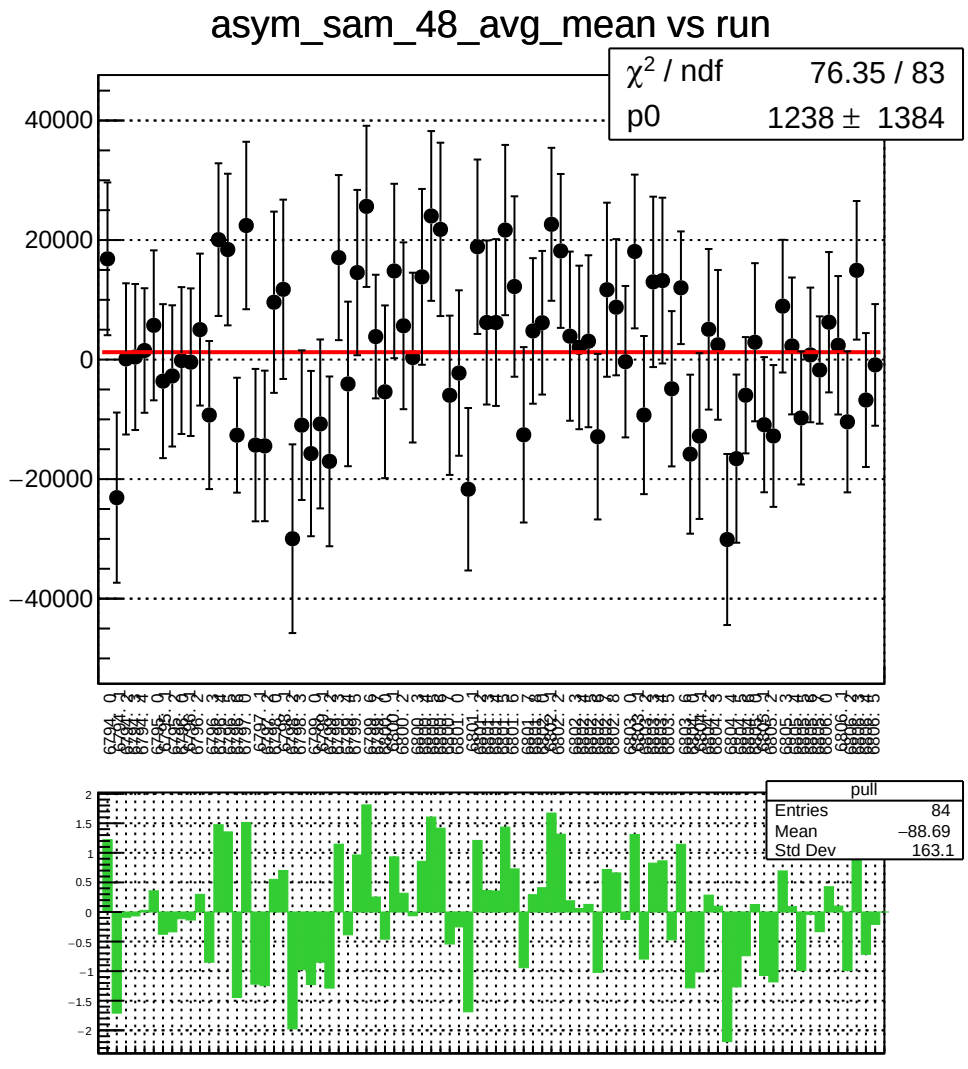

pull1D
Entries 84
Mean −0.008669
Std Dev 1.069

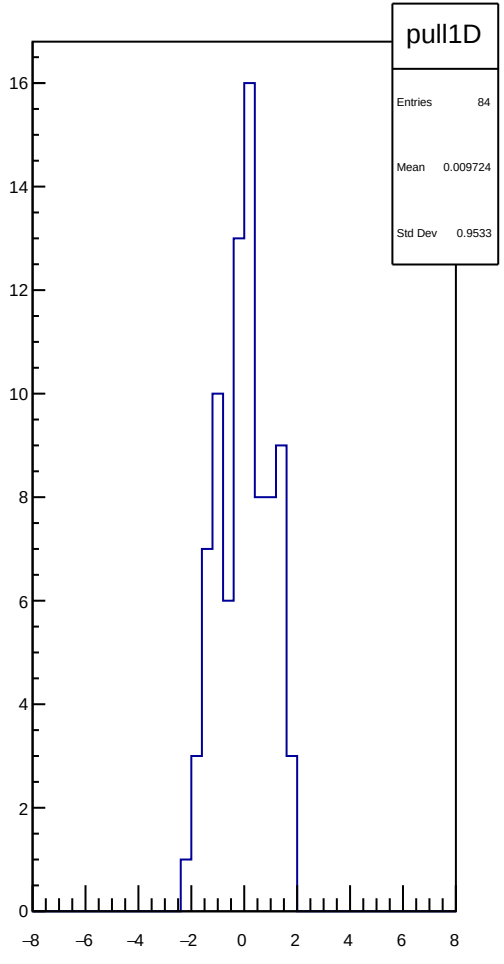

reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 6532 / 83
p0 163.4 ± 0.1285
230
220
210
200
190
180
170
160
150
140

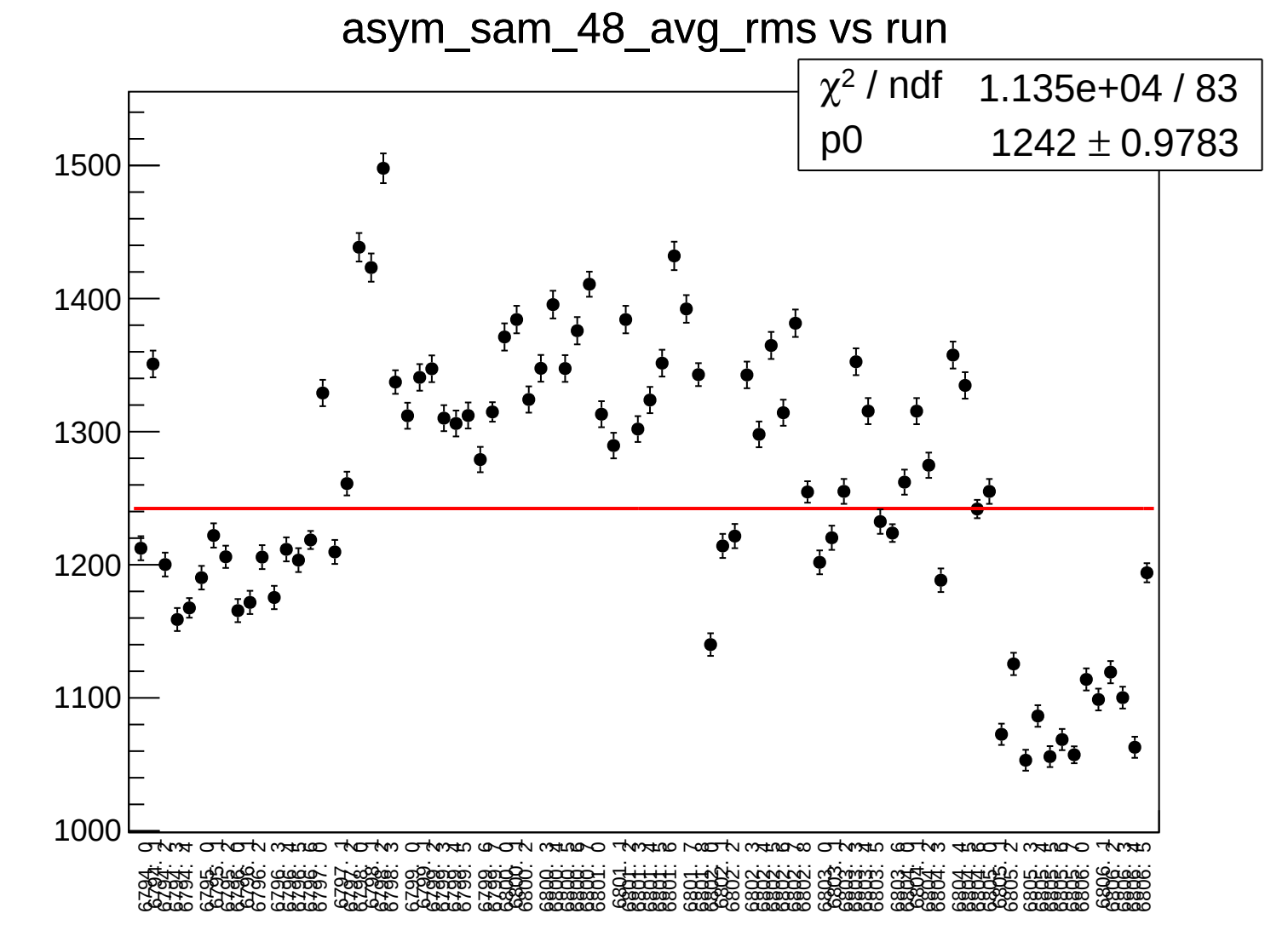

asym_sam_48_avg_correction_mean vs run
χ² / ndf 75.34 / 83
p0 −1353 ± 1371
pull
Entries 84
Mean 8.46
Std Dev 97.39

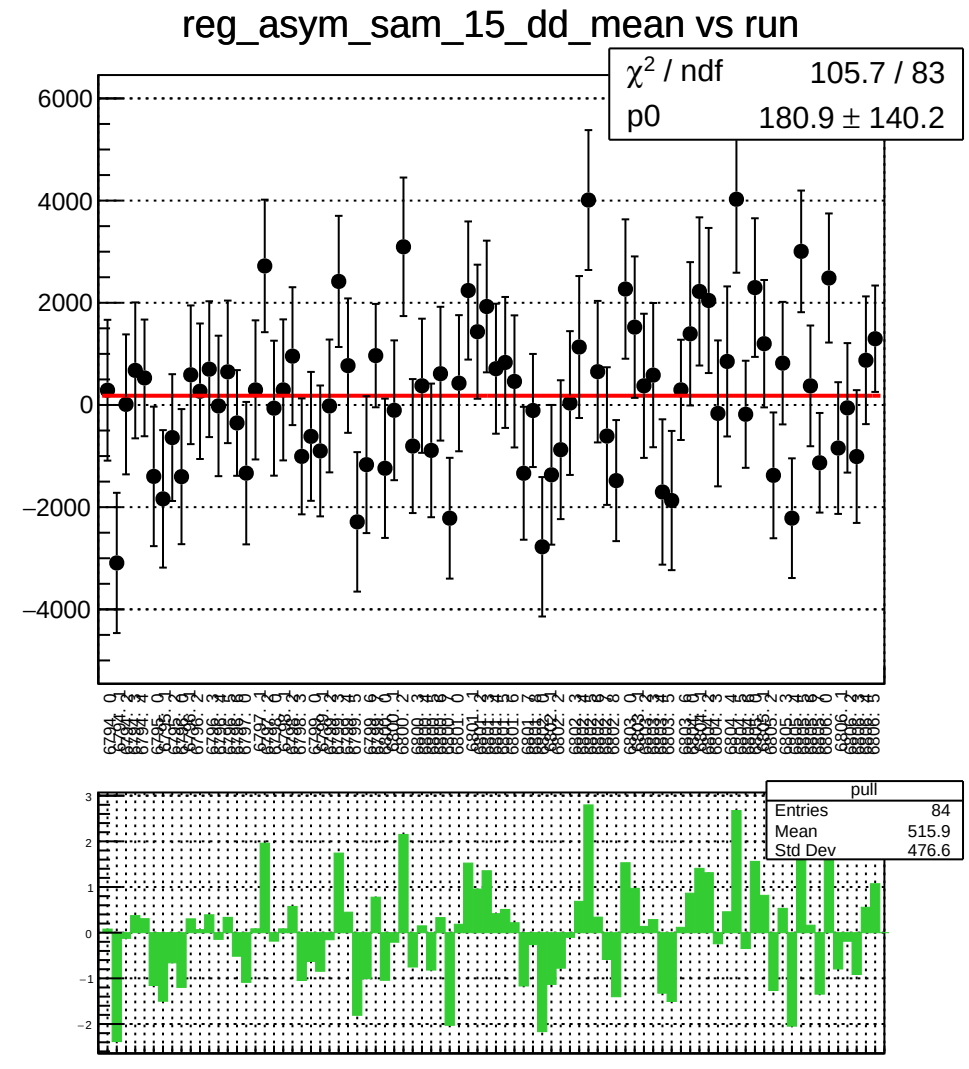

pull1D
Entries 84
Mean −0.01121
Std Dev 0.947

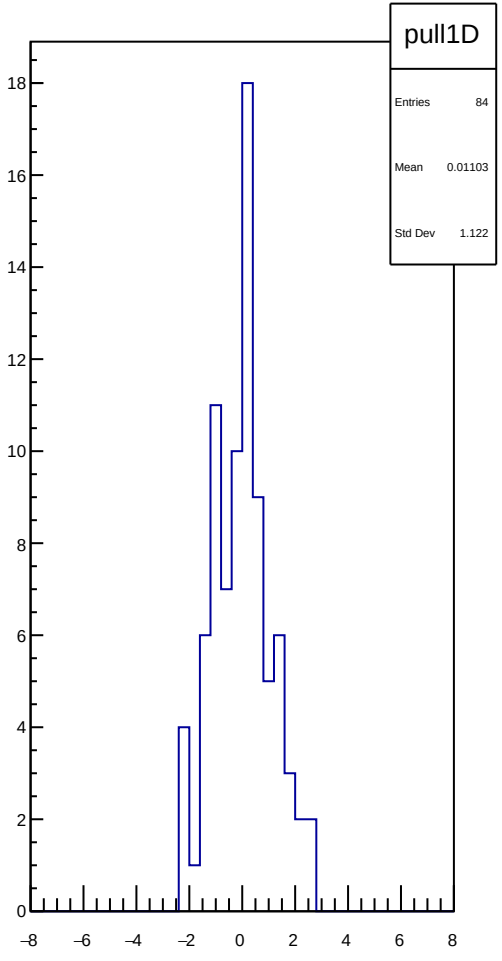

asym_sam_48_avg_correction_rms vs run
χ² / ndf 1.154e+04 / 83
p0 1231 ± 0.9697
1500
1400
1300
1200
1100
1000

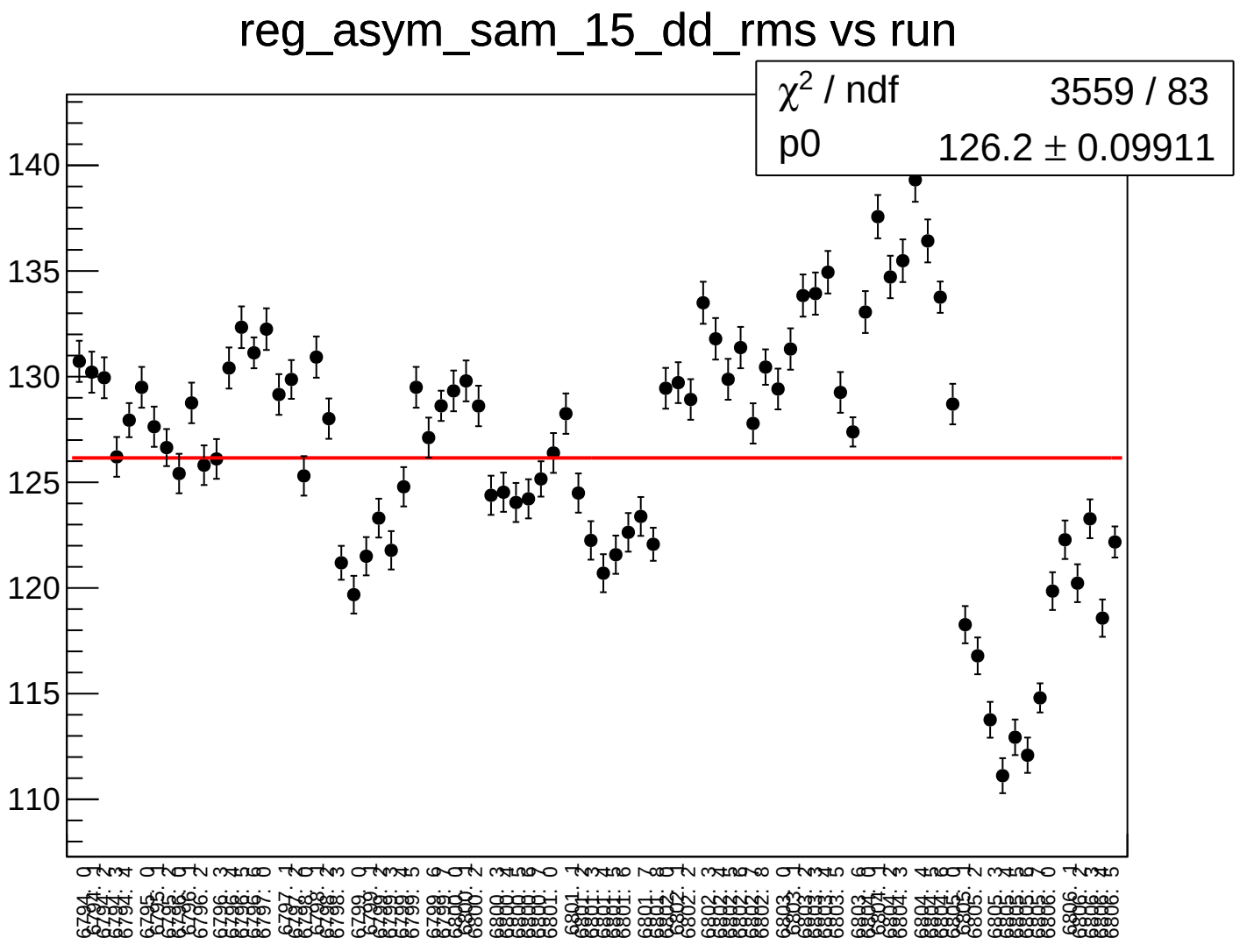

asym_sam_48_avg_mean vs run
χ² / ndf 76.35 / 83
p0 1238 ± 1384
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −88.69
Std Dev 163.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

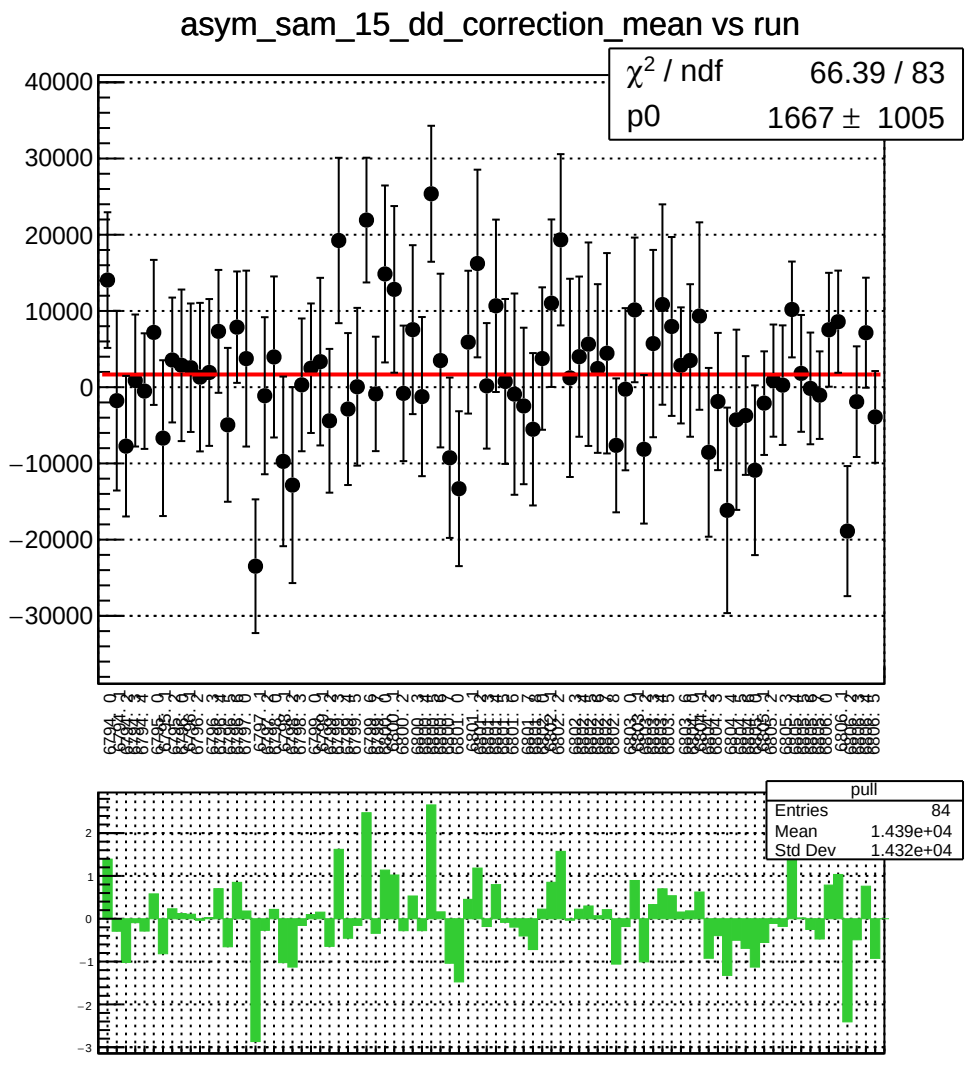

pull1D
Entries 84
Mean 0.009724
Std Dev 0.9533
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

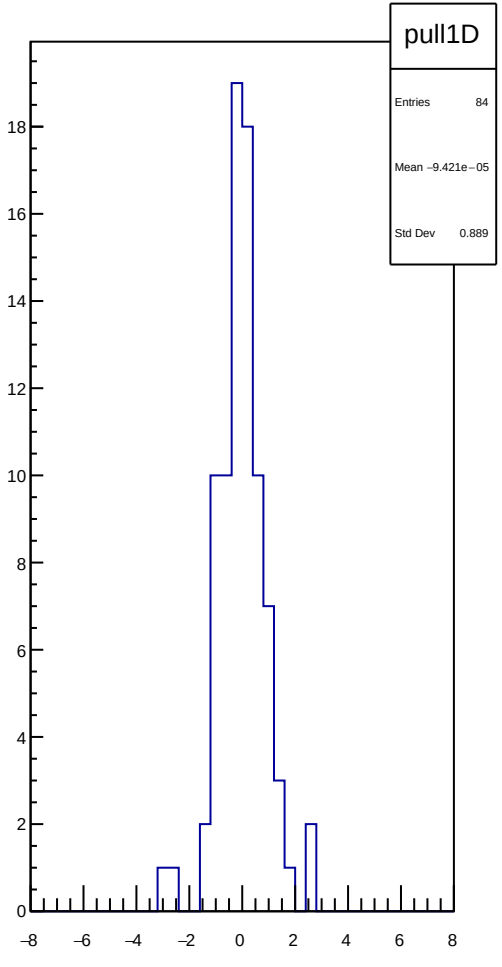

asym_sam_48_avg_rms vs run
χ² / ndf 1.135e+04 / 83
p0 1242 ± 0.9783
1500
1400
1300
1200
1100
1000

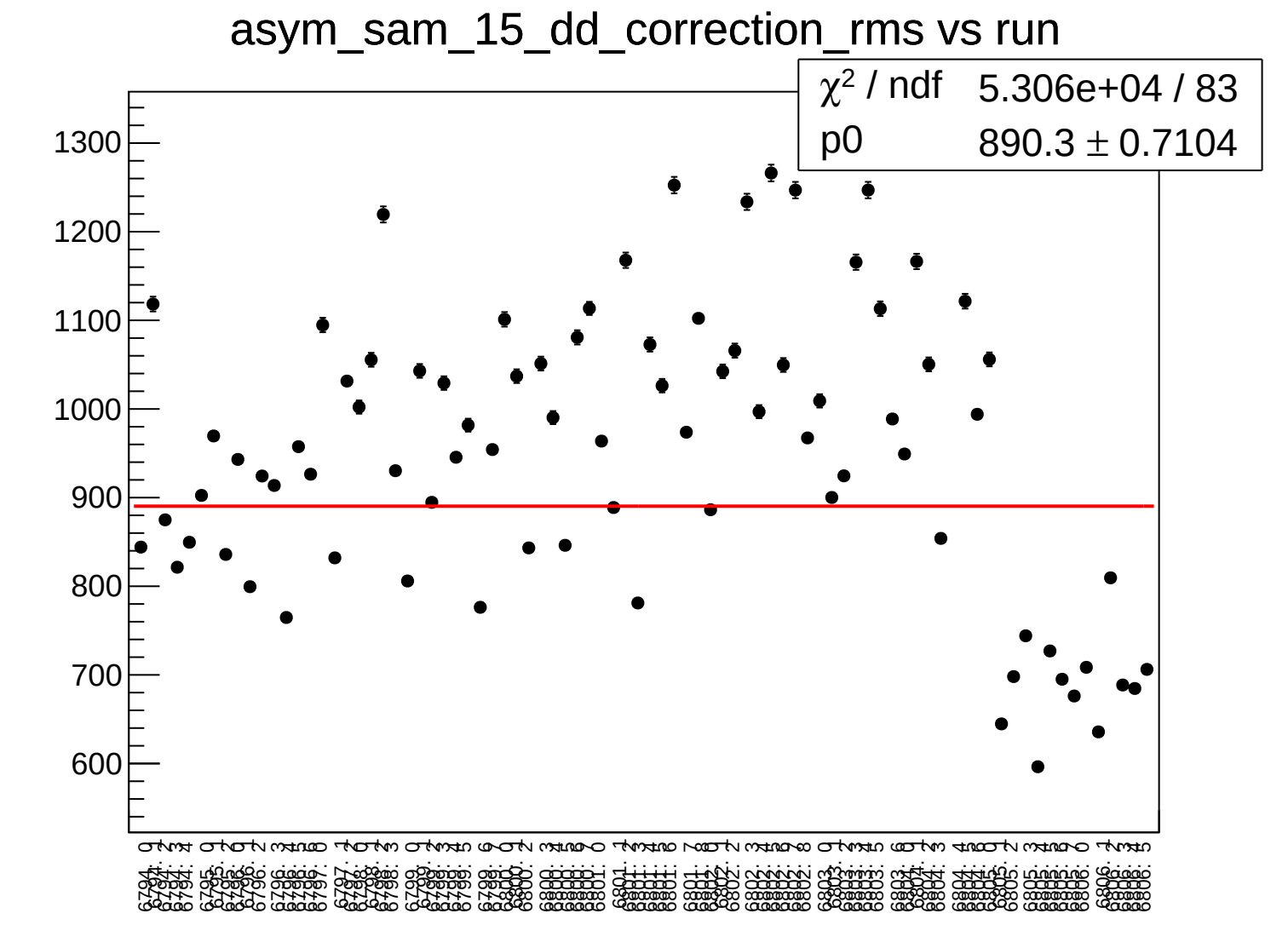

reg_asym_sam_15_dd_mean vs run
χ² / ndf 105.7 / 83
p0 180.9 ± 140.2
pull
Entries 84
Mean 515.9
Std Dev 476.6

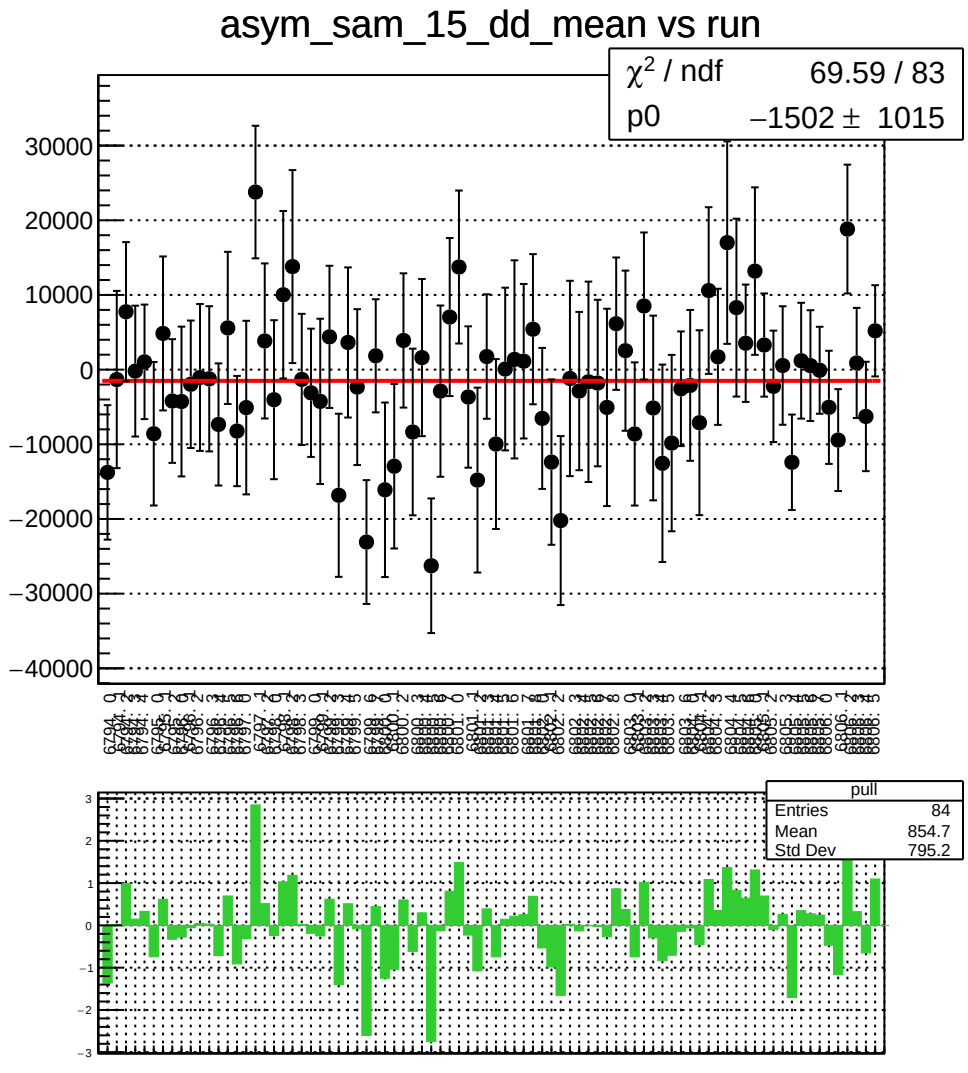

pull1D
Entries 84
Mean 0.01103
Std Dev 1.122

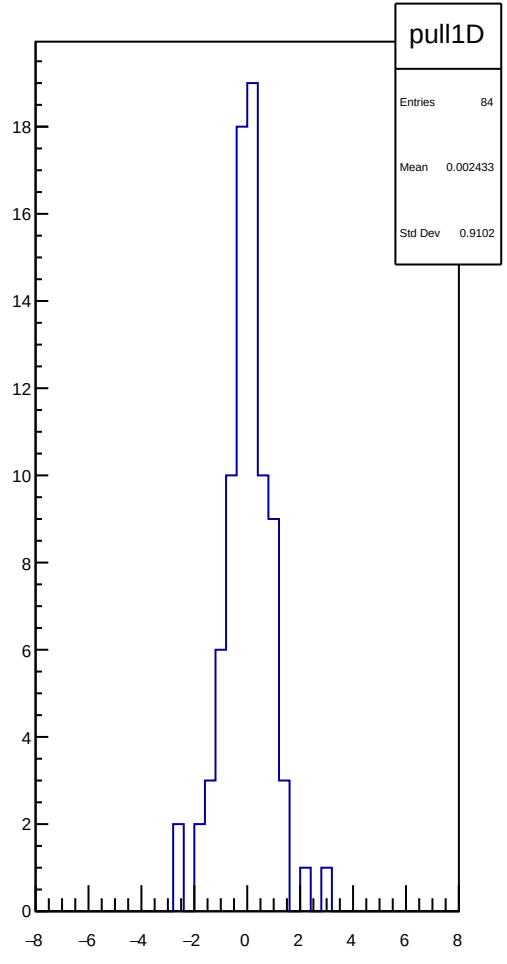

reg_asym_sam_15_dd_rms vs run
χ² / ndf 3559 / 83
p0 126.2 ± 0.09911
140
135
130
125
120
115
110

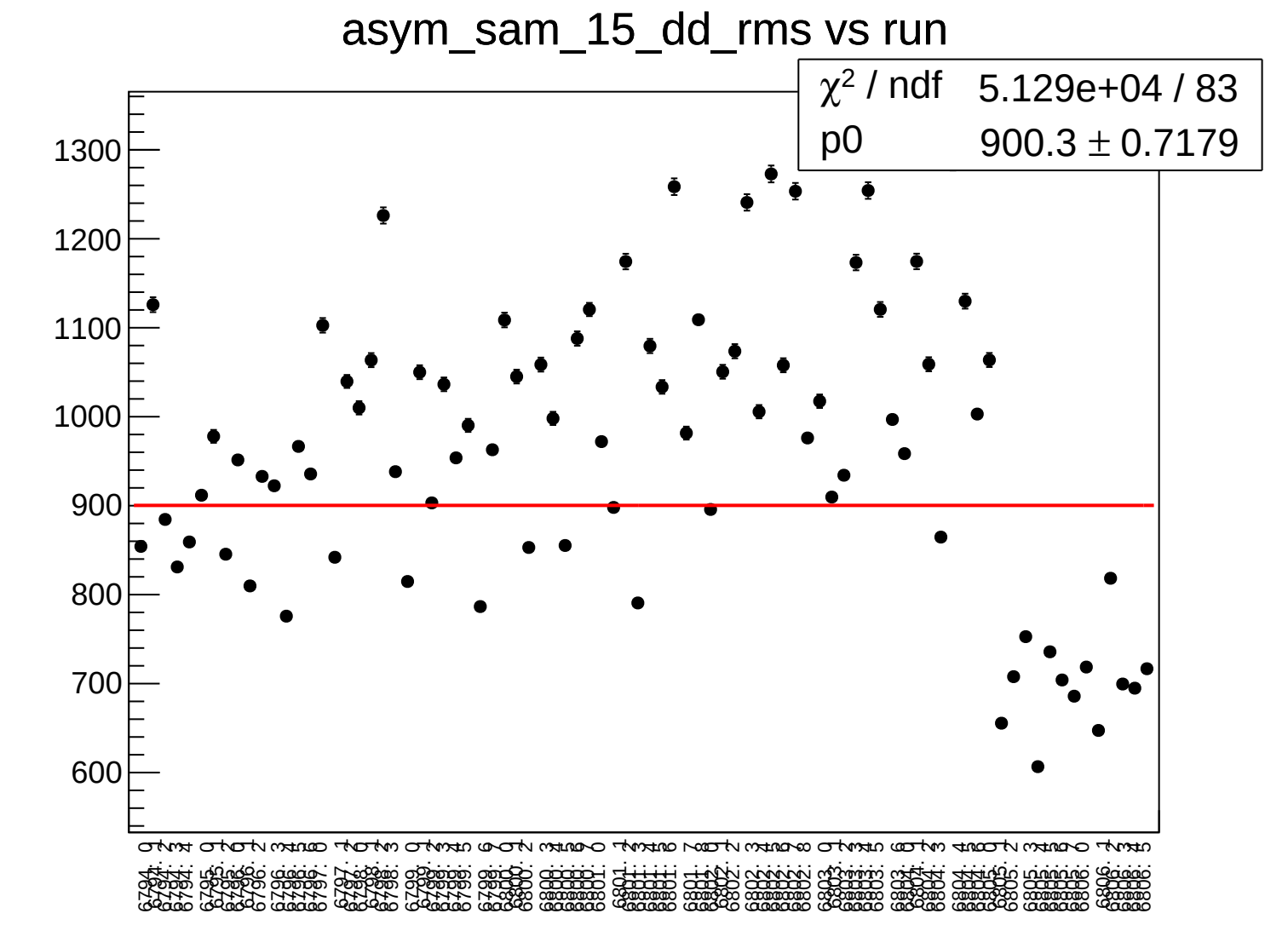

asym_sam_15_dd_correction_mean vs run
χ² / ndf 66.39 / 83
p0 1667 ± 1005
pull
Entries 84
Mean 1.439e+04
Std Dev 1.432e+04

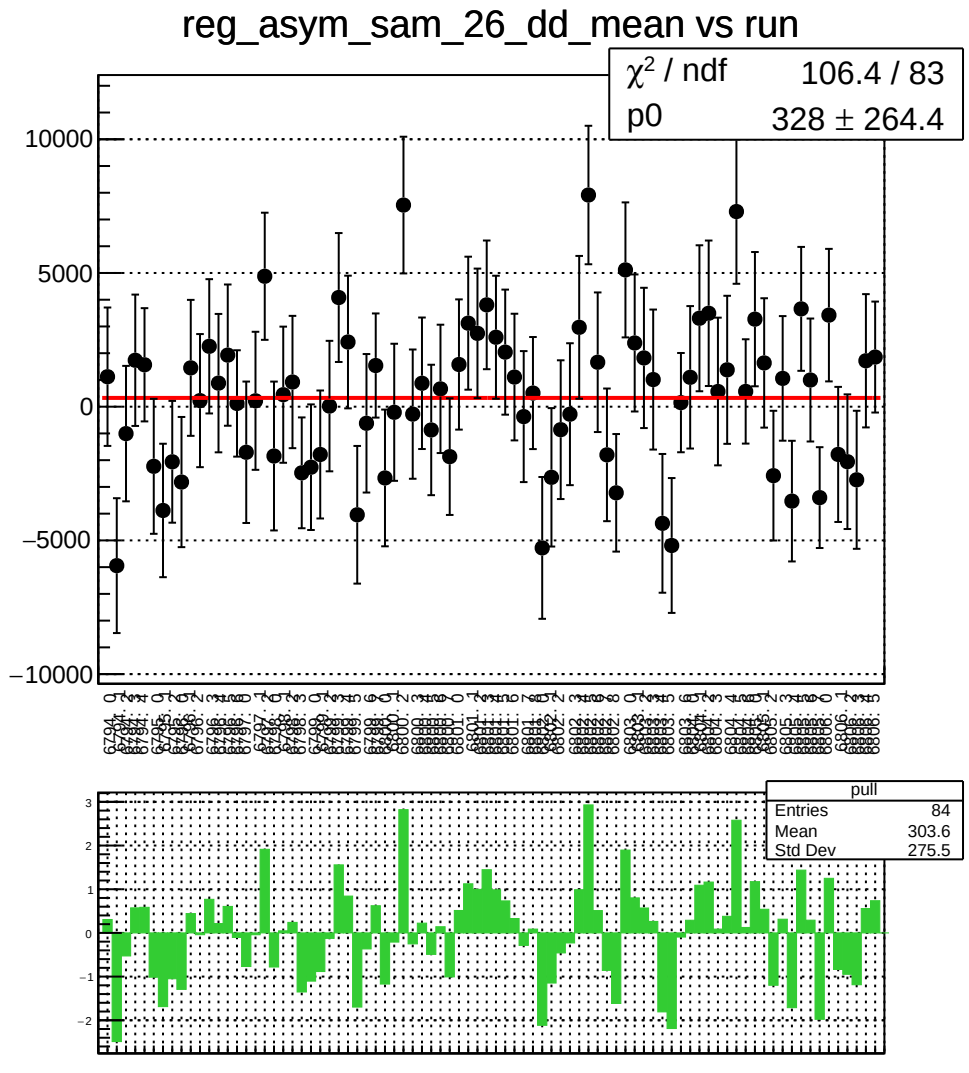

pull1D
Entries 84
Mean −9.421e−05
Std Dev 0.889

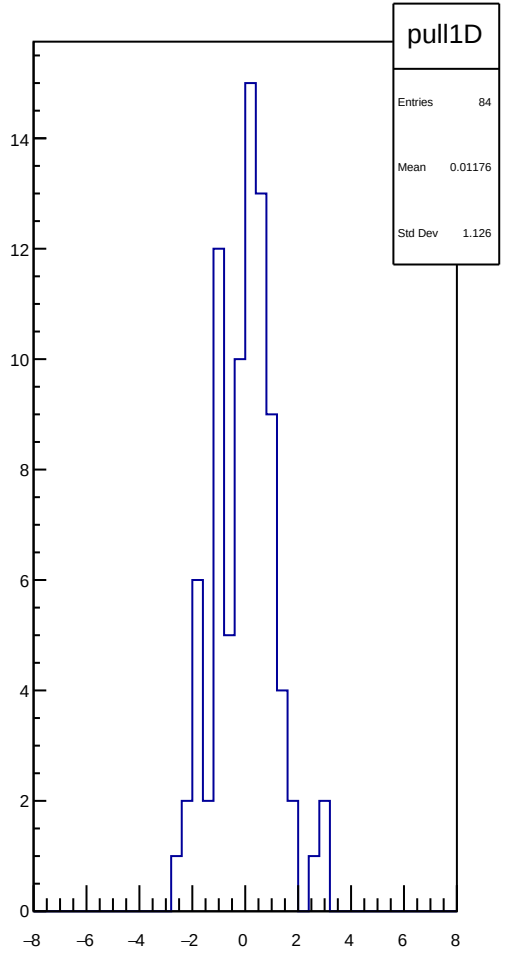

asym_sam_15_dd_correction_rms vs run
χ² / ndf 5.306e+04 / 83
p0 890.3 ± 0.7104
1300
1200
1100
1000
900
800
700
600

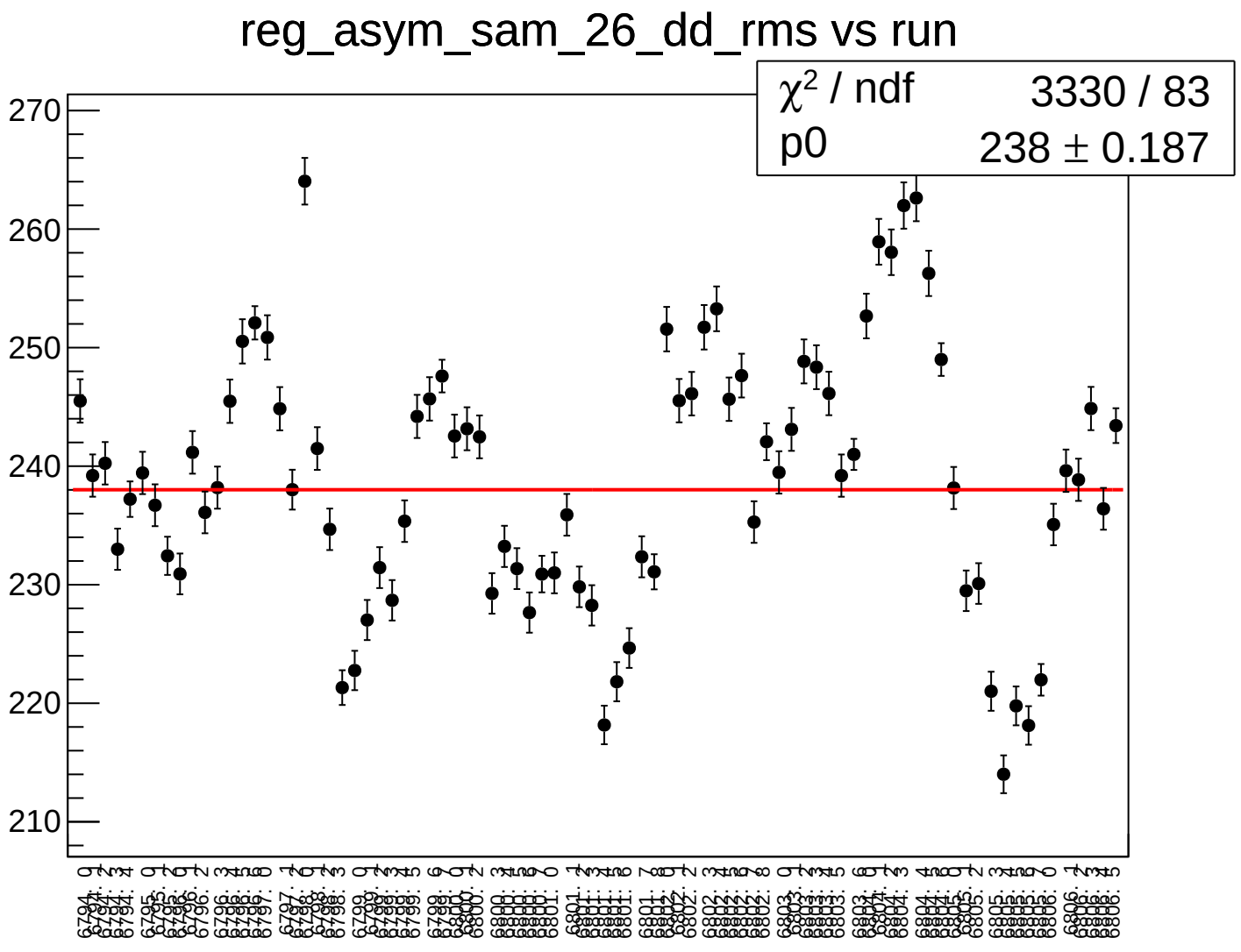

asym_sam_15_dd_mean vs run
χ² / ndf 69.59 / 83
p0 −1502 ± 1015
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 854.7
Std Dev 795.2
3
2
1
0
−1
−2
−3

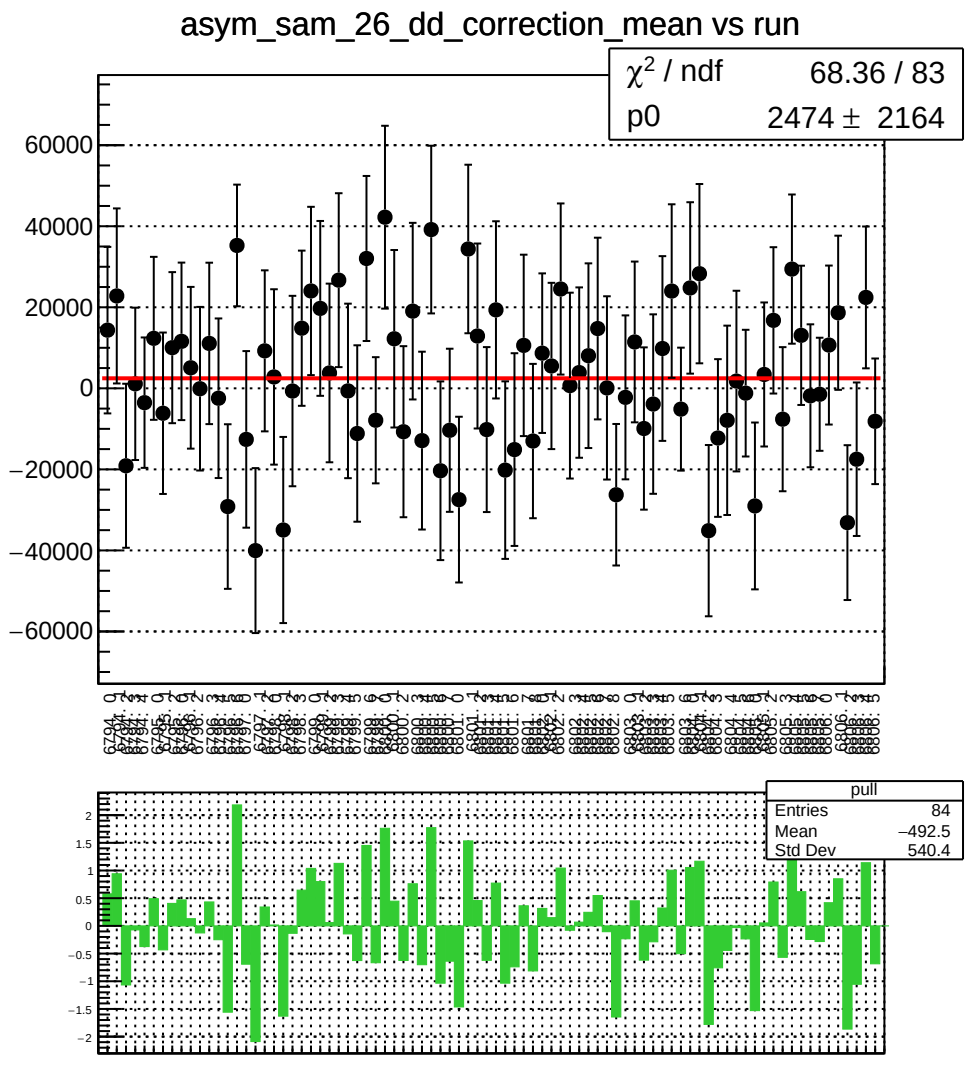

pull1D
Entries 84
Mean 0.002433
Std Dev 0.9102
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

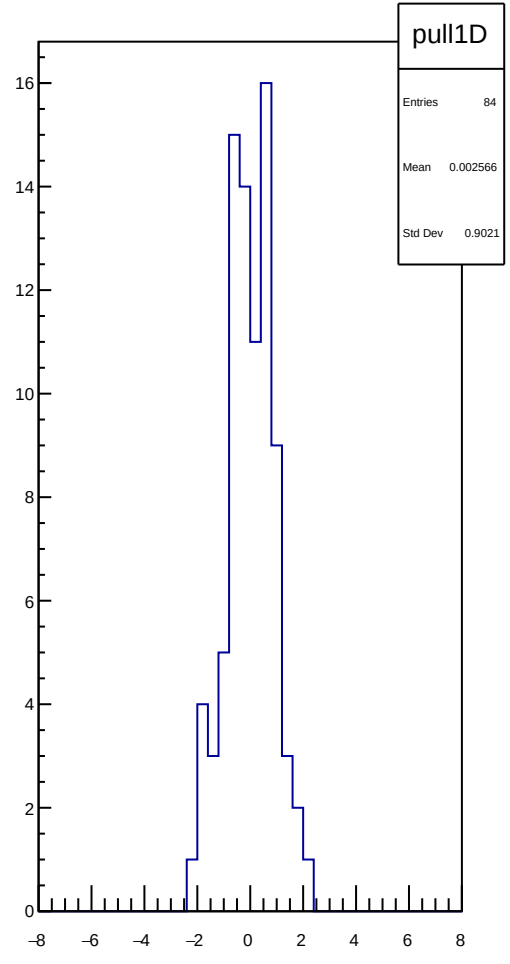

asym_sam_15_dd_rms vs run
χ^2 / ndf 5.129e+04 / 83
p0 900.3 ± 0.7179
1300
1200
1100
1000
900
800
700
600

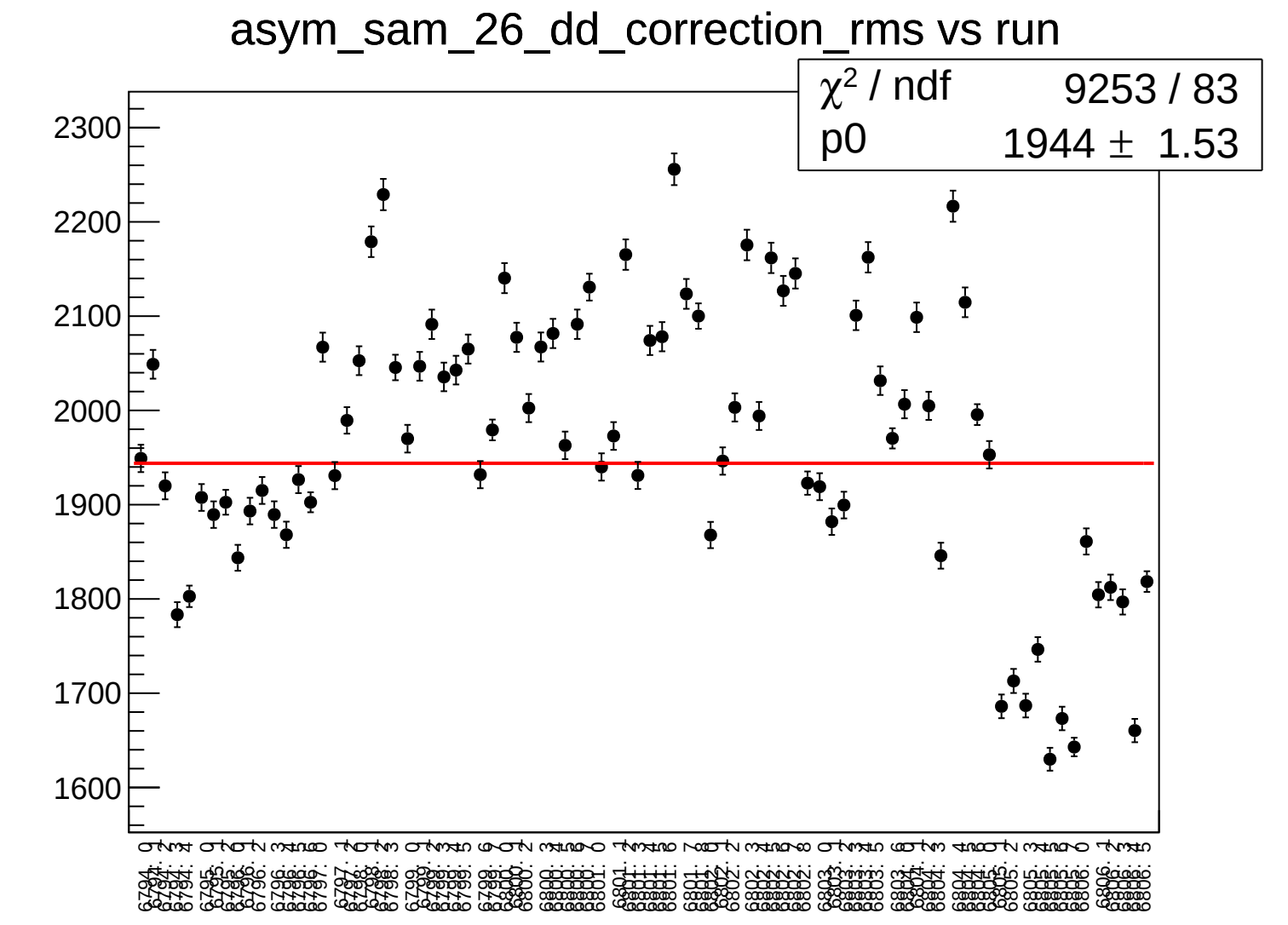

reg_asym_sam_26_dd_mean vs run
χ² / ndf 106.4 / 83
p0 328 ± 264.4
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 303.6
Std Dev 275.5
3
2
1
0
−1
−2

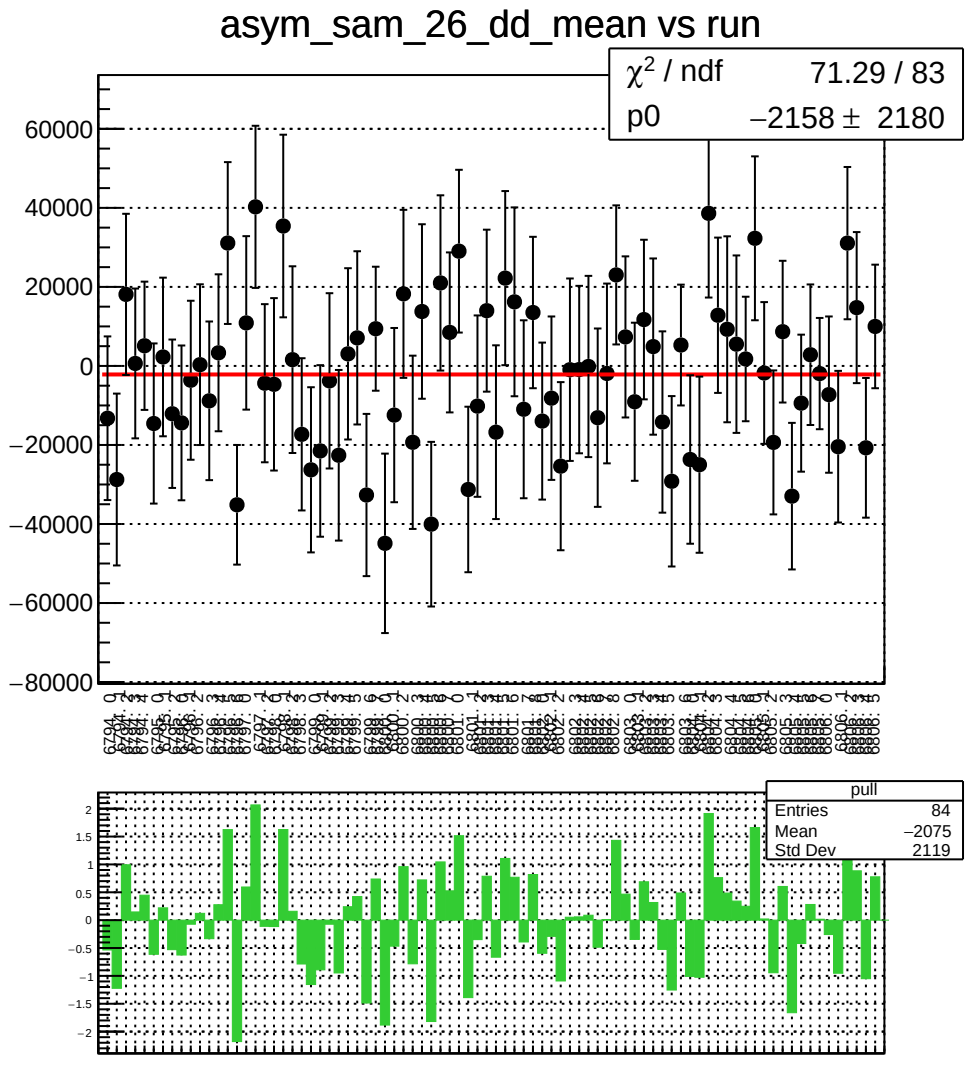

pull1D
Entries 84
Mean 0.01176
Std Dev 1.126
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

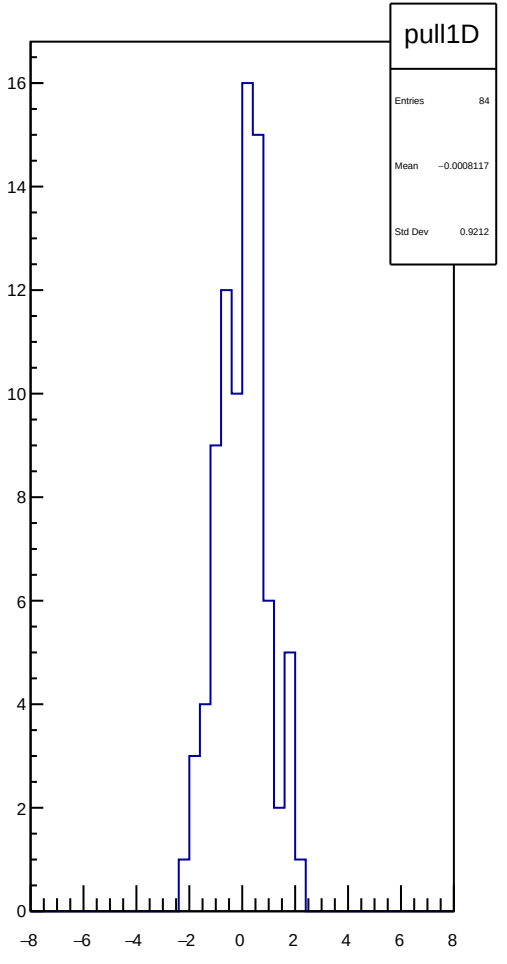

reg_asym_sam_26_dd_rms vs run
χ² / ndf 3330 / 83
p0 238 ± 0.187
270
260
250
240
230
220
210

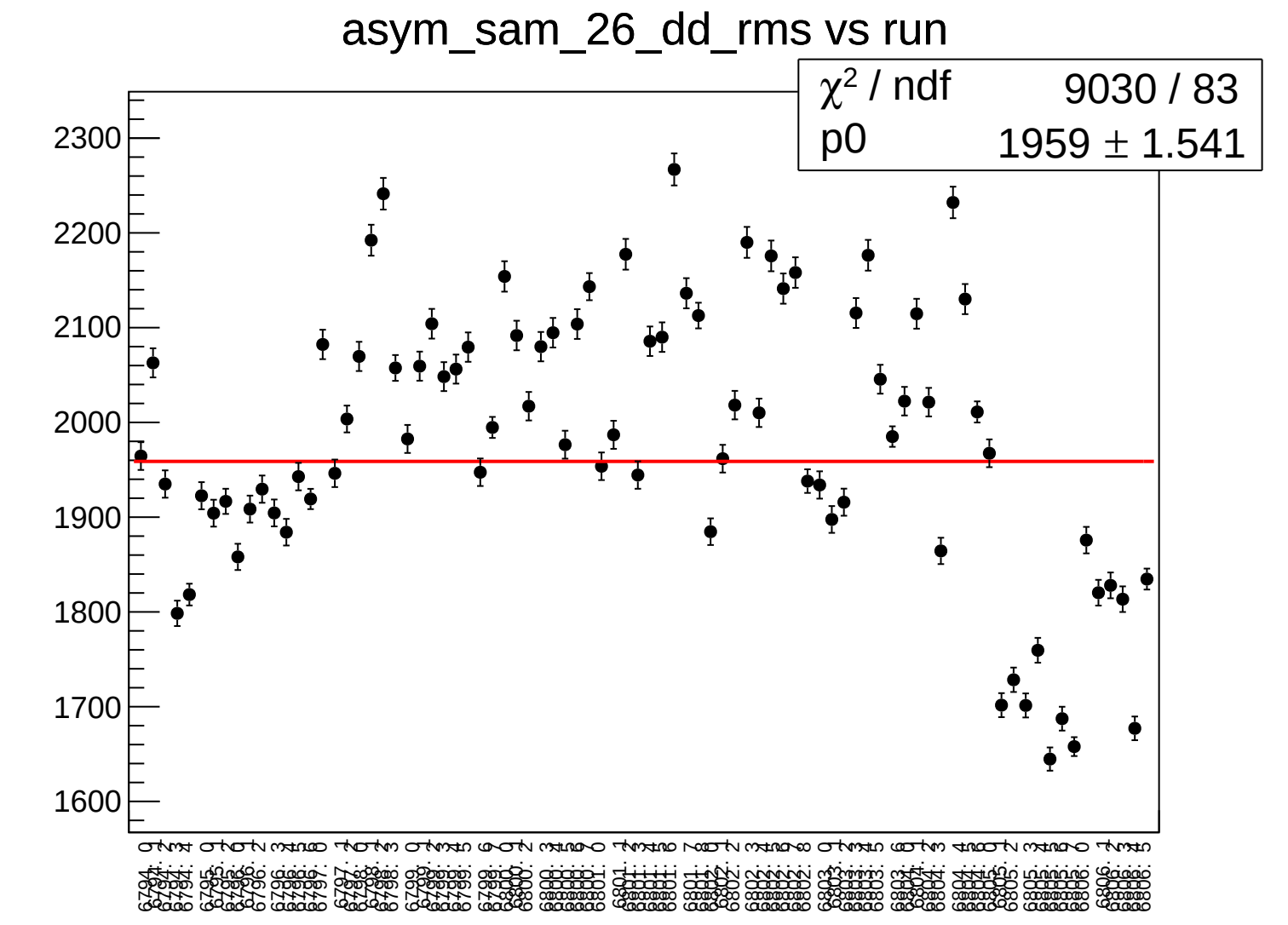

asym_sam_26_dd_correction_mean vs run
χ² / ndf 68.36 / 83
p0 2474 ± 2164
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −492.5
Std Dev 540.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

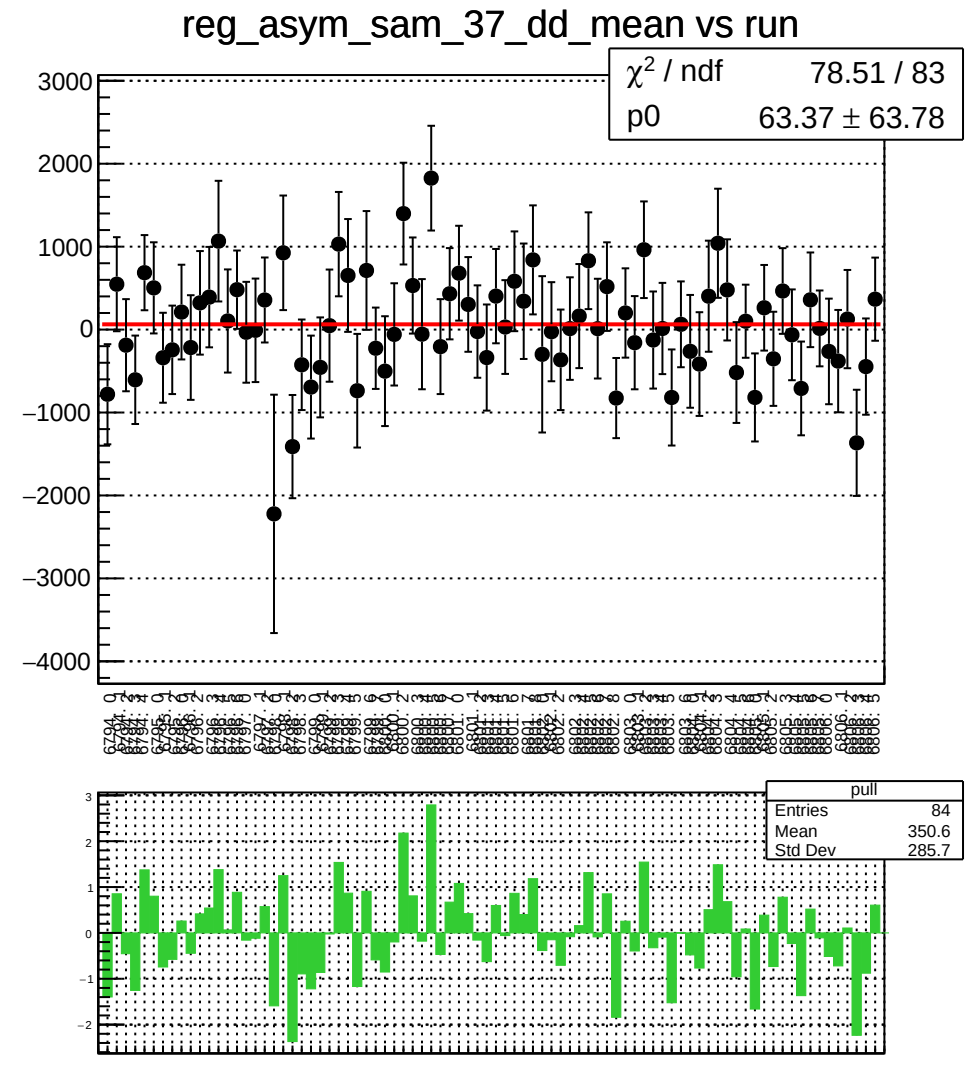

pull1D
Entries 84
Mean 0.002566
Std Dev 0.9021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

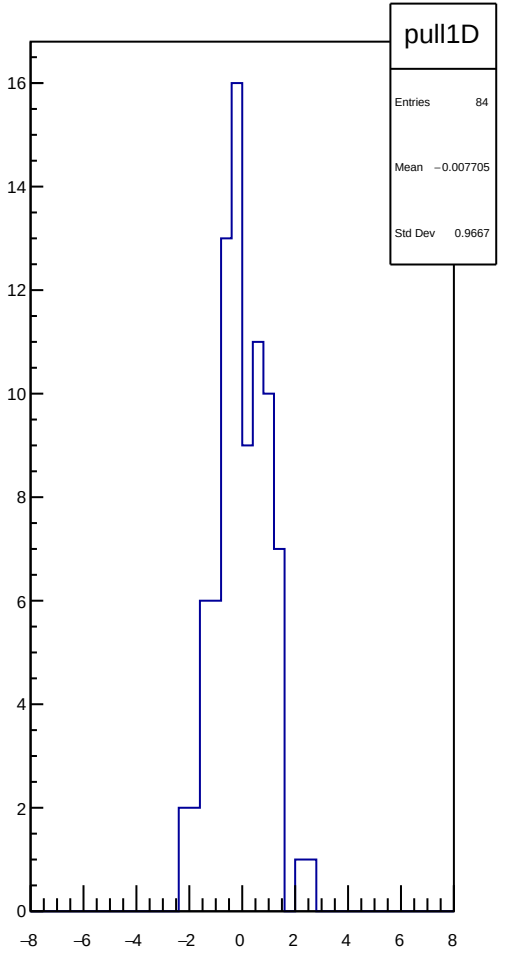

asym_sam_26_dd_correction_rms vs run
χ² / ndf 9253 / 83
p0 1944 ± 1.53
2300
2200
2100
2000
1900
1800
1700
1600

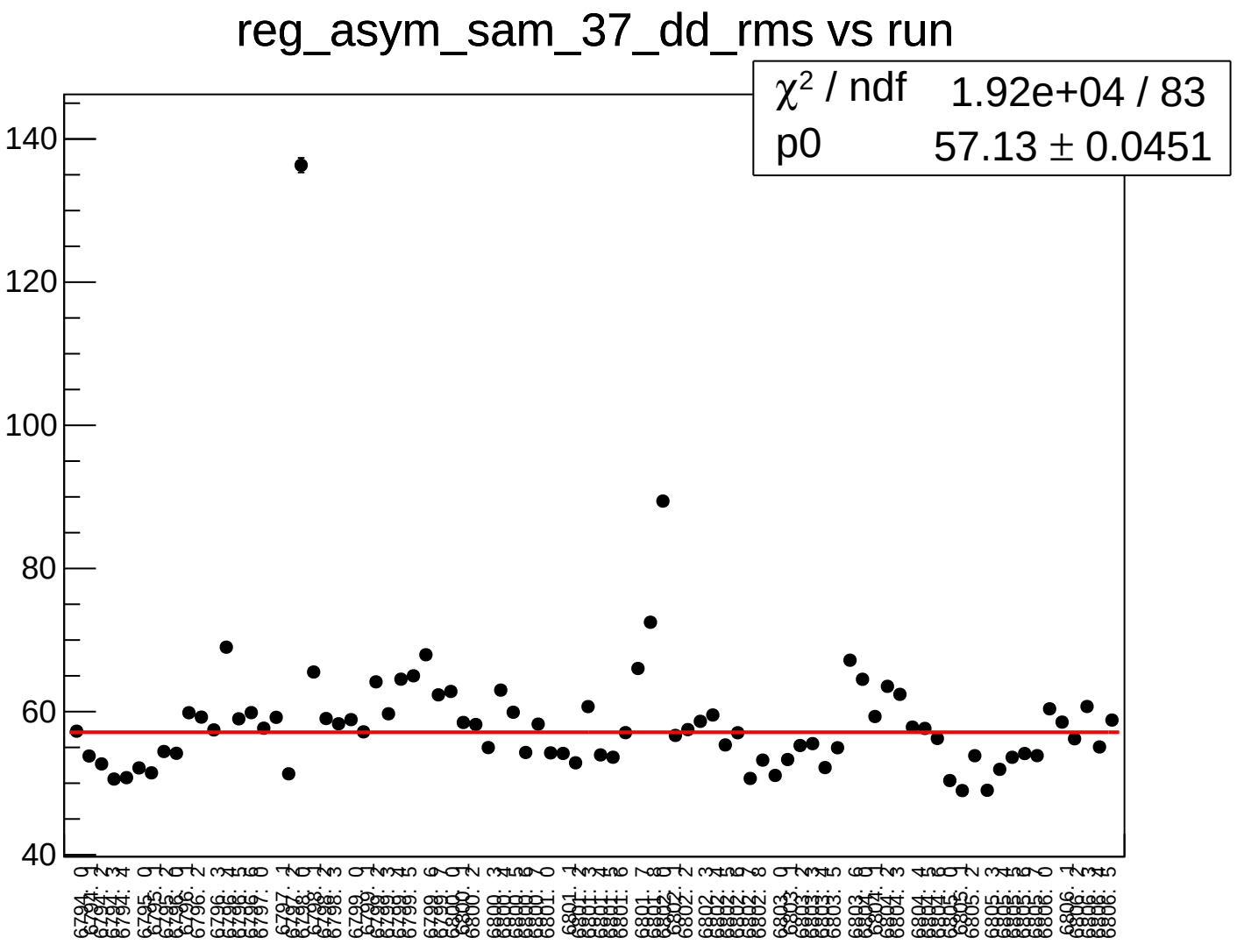

asym_sam_26_dd_mean vs run
χ² / ndf 71.29 / 83
p0 −2158 ± 2180
pull
Entries 84
Mean −2075
Std Dev 2119

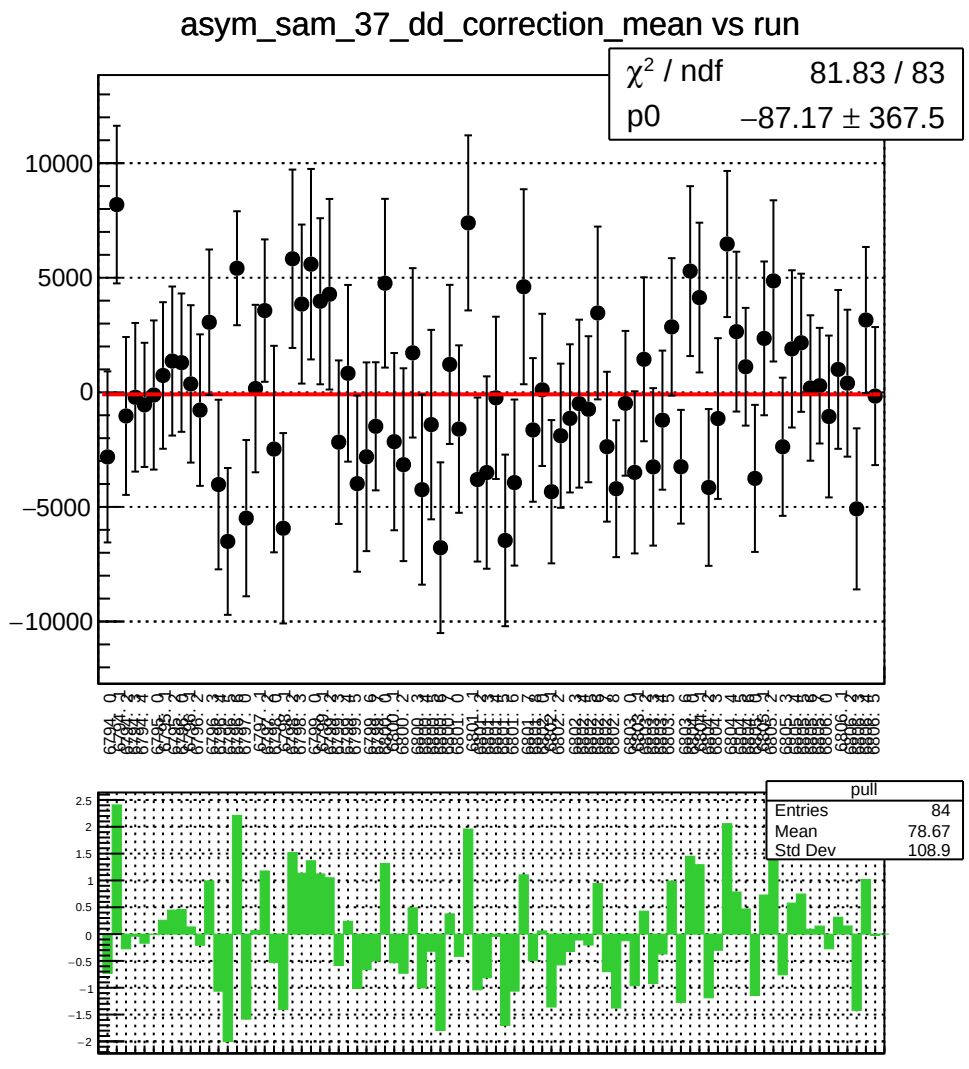

pull1D
Entries 84
Mean −0.0008117
Std Dev 0.9212

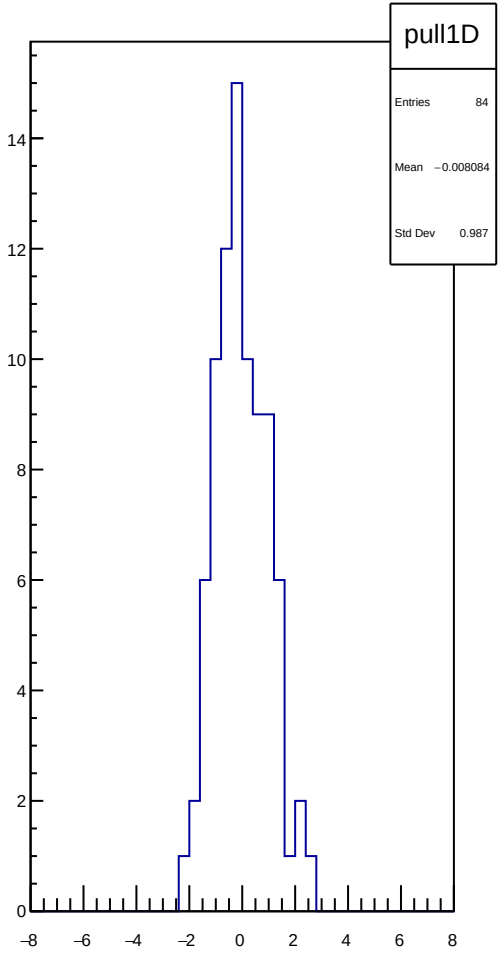

asym_sam_26_dd_rms vs run
χ^2 / ndf 9030 / 83
p0 1959 ± 1.541
2300
2200
2100
2000
1900
1800
1700
1600

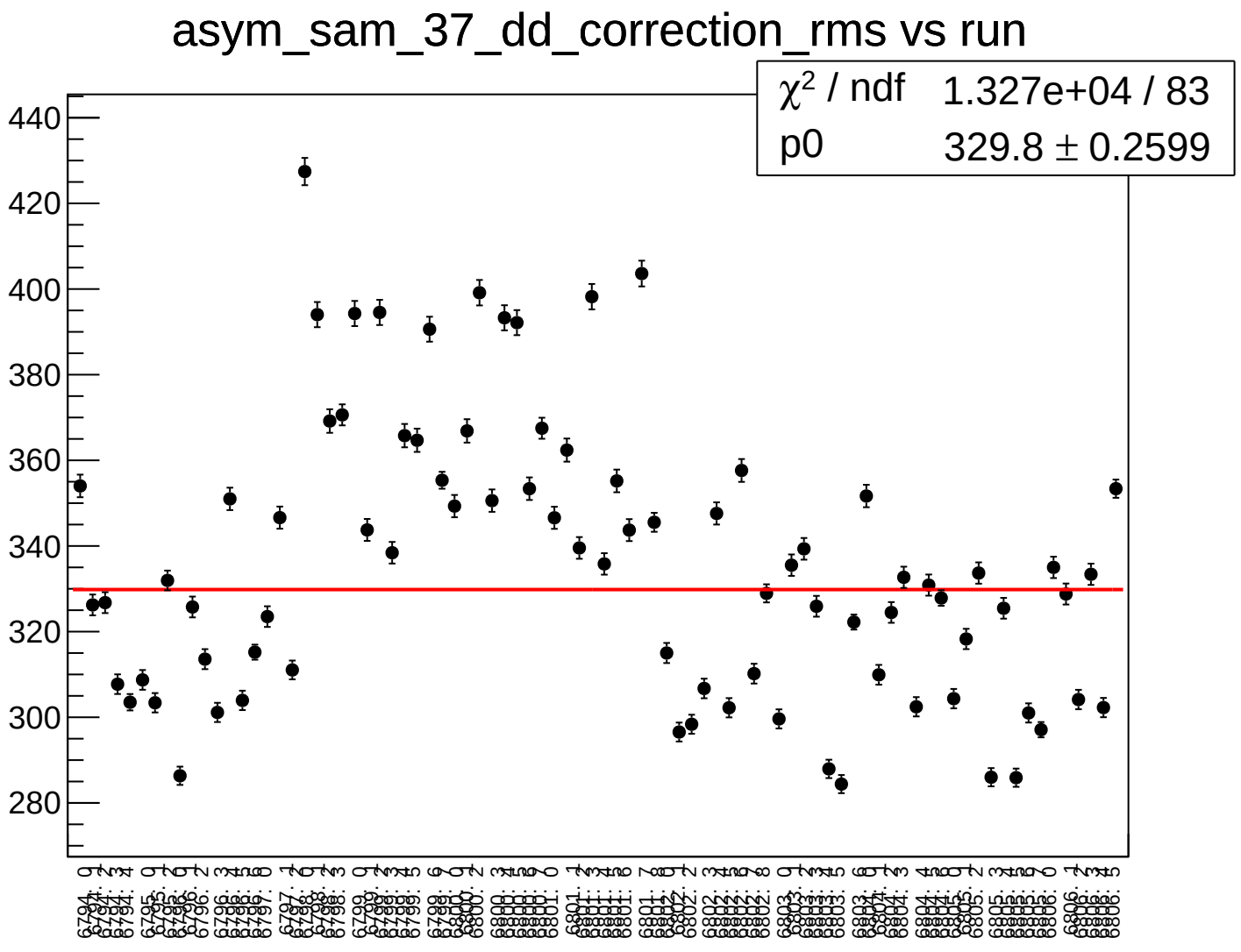

reg_asym_sam_37_dd_mean vs run
χ² / ndf 78.51 / 83
p0 63.37 ± 63.78
pull
Entries 84
Mean 350.6
Std Dev 285.7

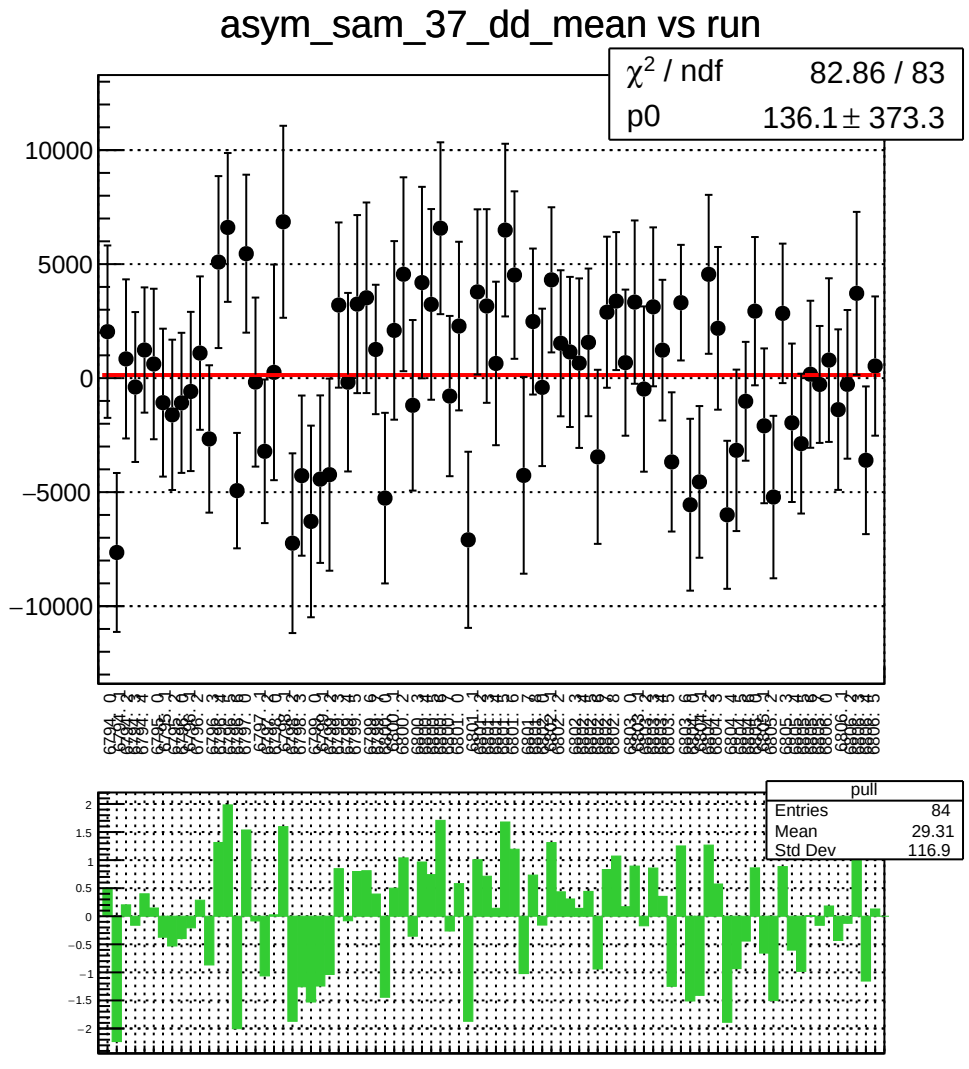

pull1D
Entries 84
Mean −0.007705
Std Dev 0.9667

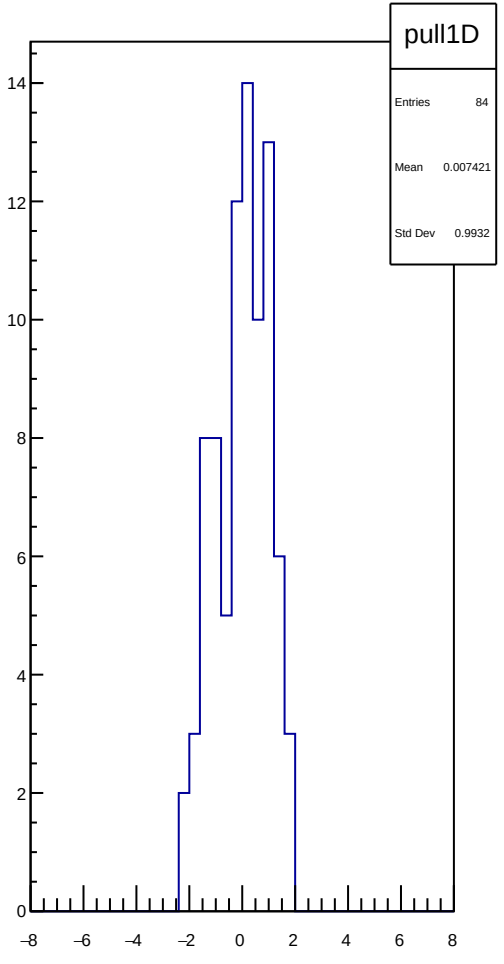

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.92e+04 / 83
p0 57.13 ± 0.0451
140
120
100
80
60
40

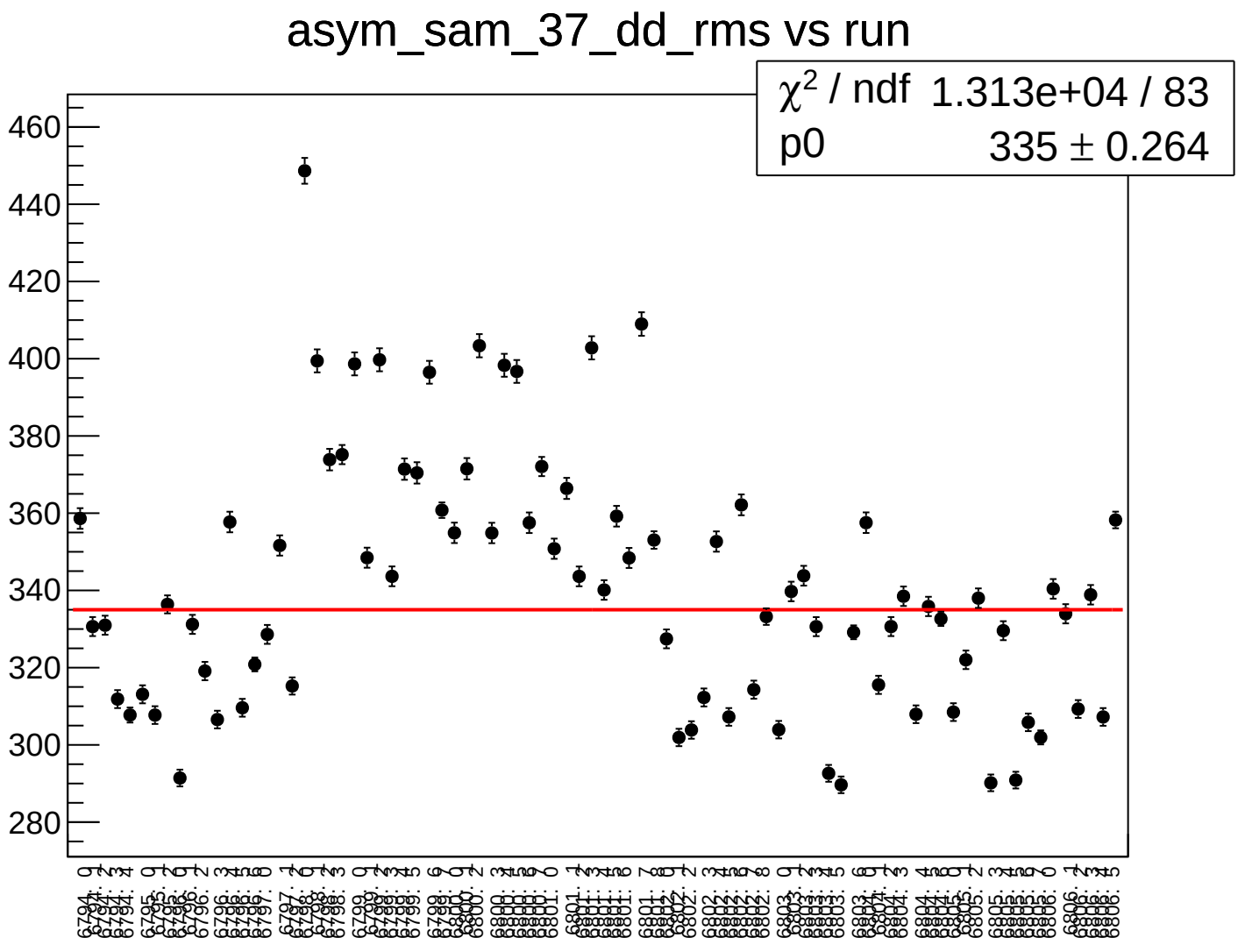

asym_sam_37_dd_correction_mean vs run
χ² / ndf 81.83 / 83
p0 −87.17 ± 367.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 78.67
Std Dev 108.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

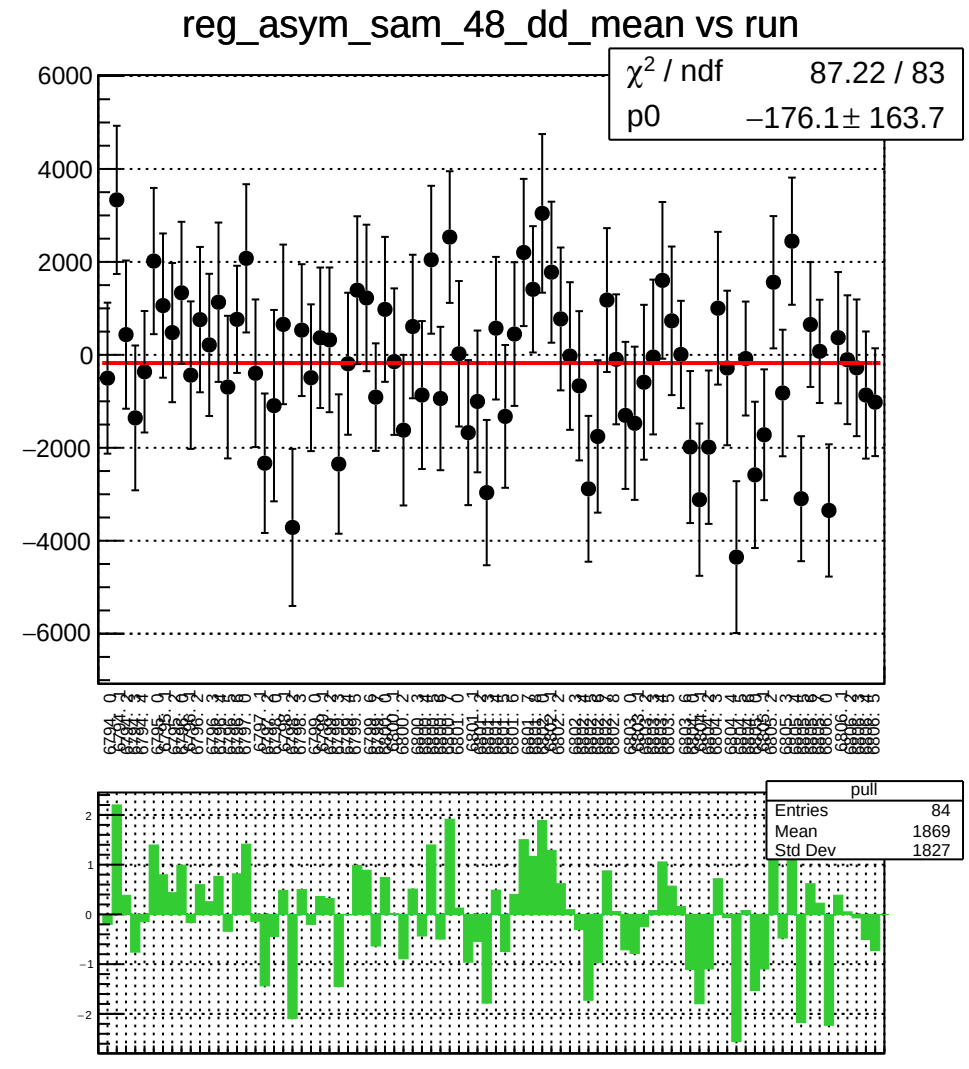

pull1D
Entries 84
Mean −0.008084
Std Dev 0.987
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

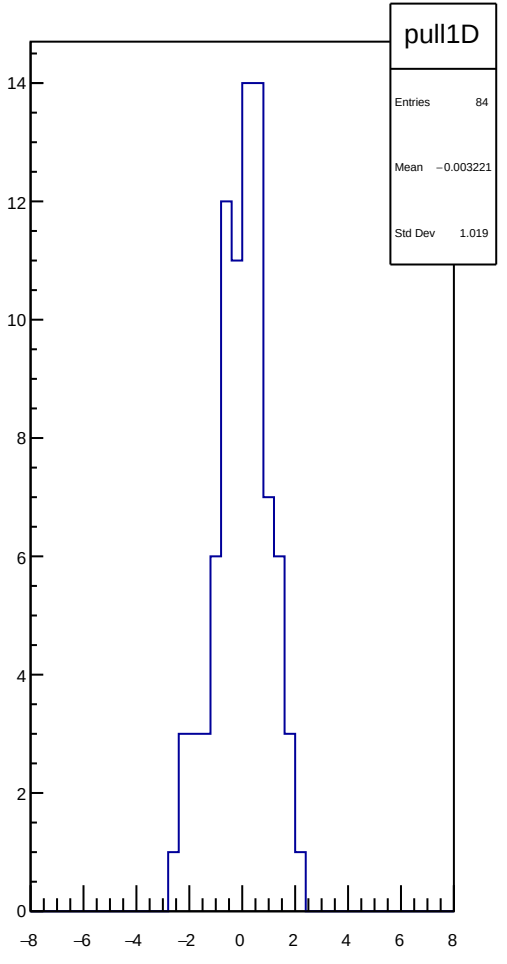

asym_sam_37_dd_correction_rms vs run
χ^2 / ndf 1.327e+04 / 83
p0 329.8 ± 0.2599
440
420
400
380
360
340
320
300
280

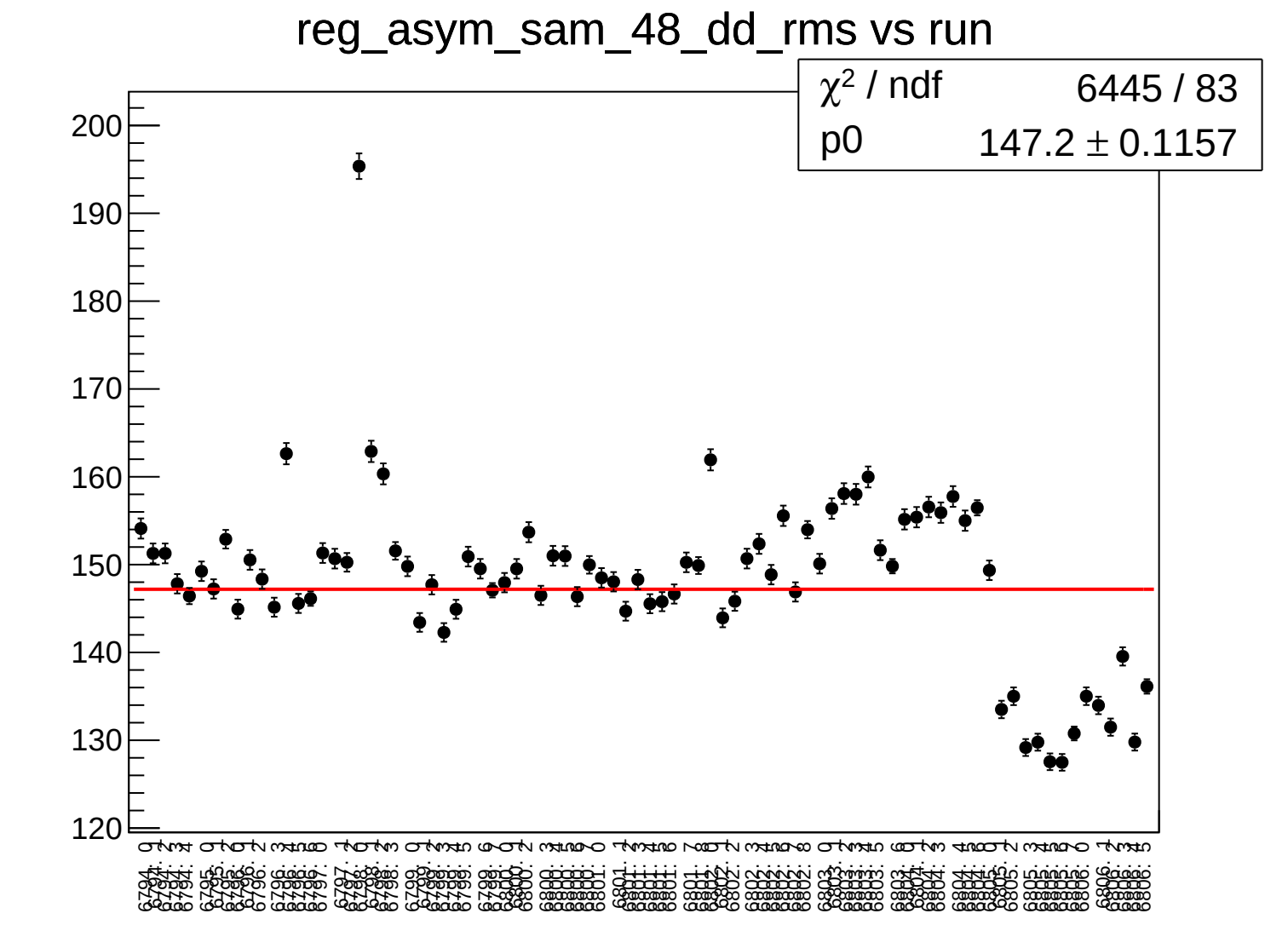

asym_sam_37_dd_mean vs run
χ² / ndf 82.86 / 83
p0 136.1 ± 373.3
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 29.31
Std Dev 116.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

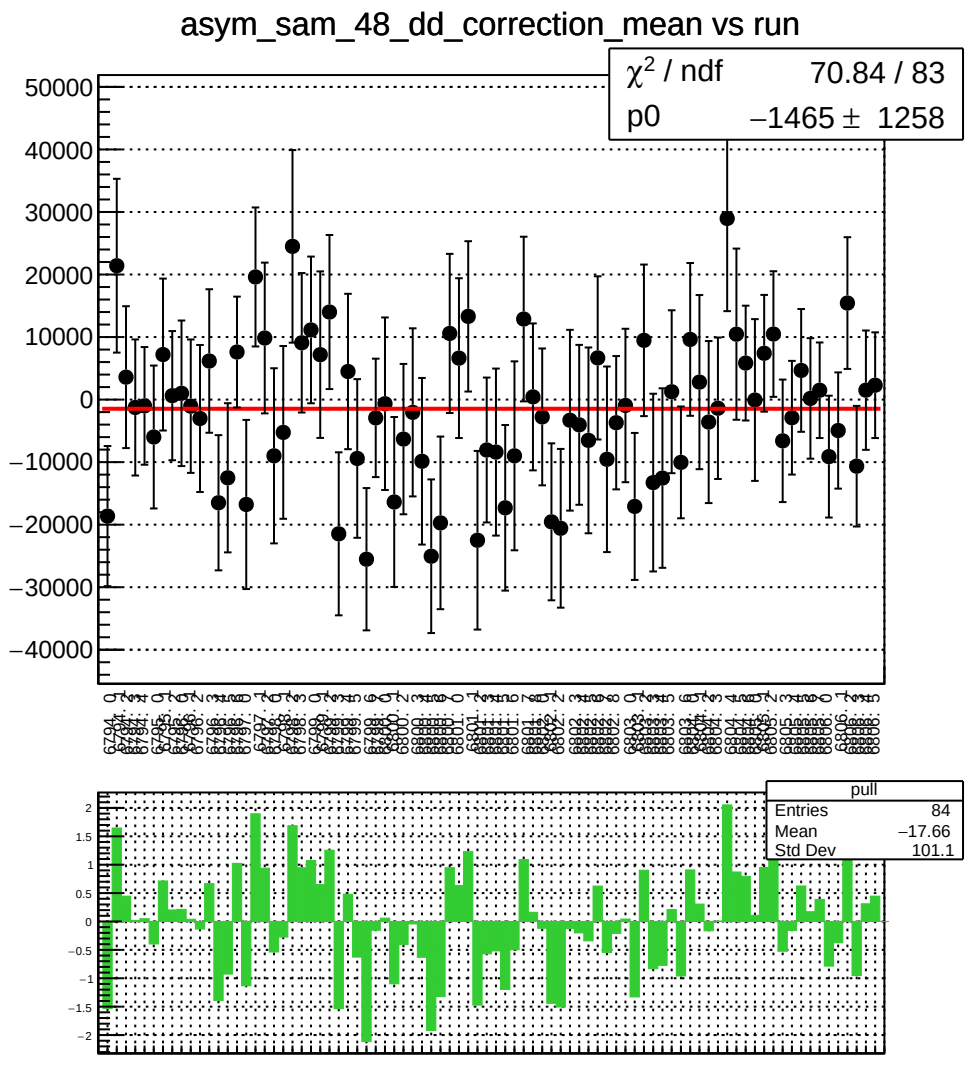

pull1D
Entries 84
Mean 0.007421
Std Dev 0.9932
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

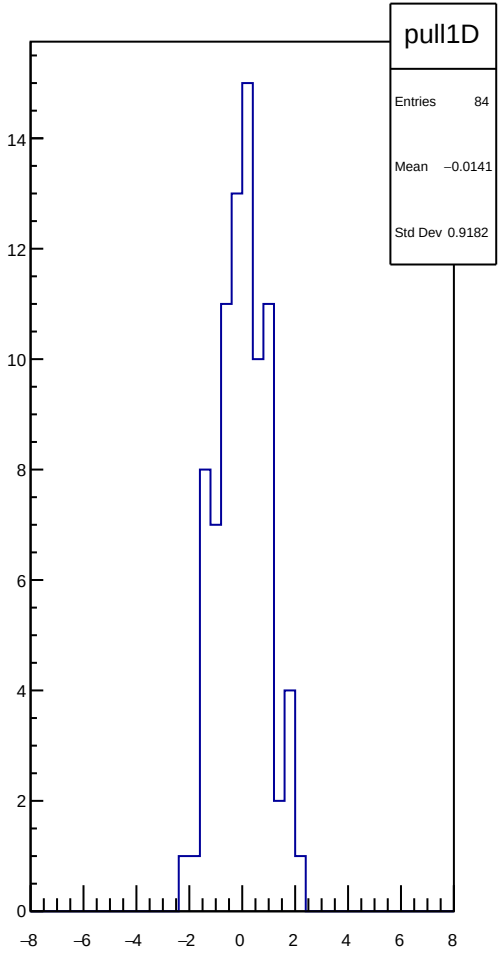

asym_sam_37_dd_rms vs run
χ^2 / ndf 1.313e+04 / 83
p0 335 ± 0.264
460
440
420
400
380
360
340
320
300
280

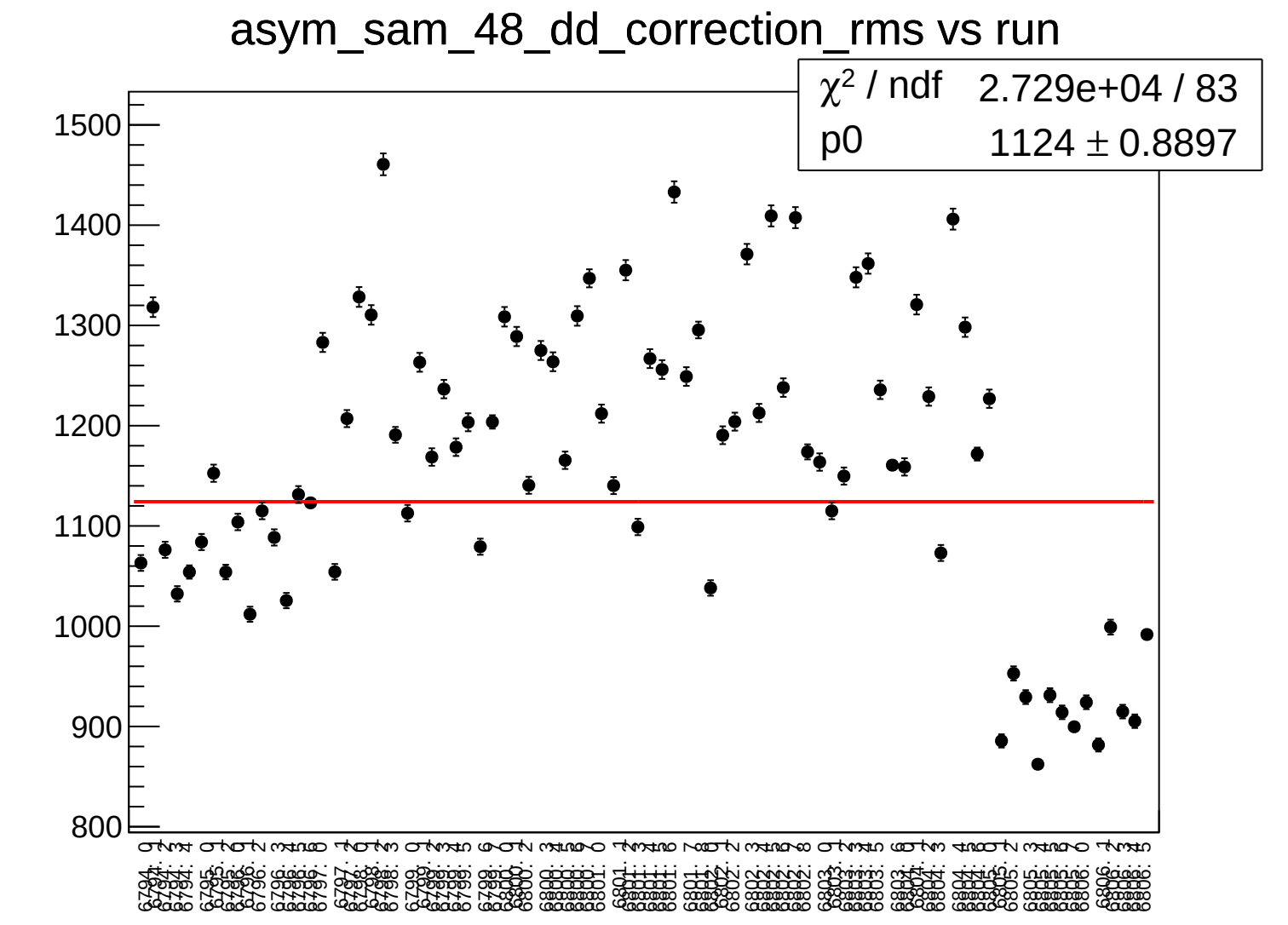

reg_asym_sam_48_dd_mean vs run
χ² / ndf 87.22 / 83
p0 −176.1± 163.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 1869
Std Dev 1827
2
1
0
−1
−2

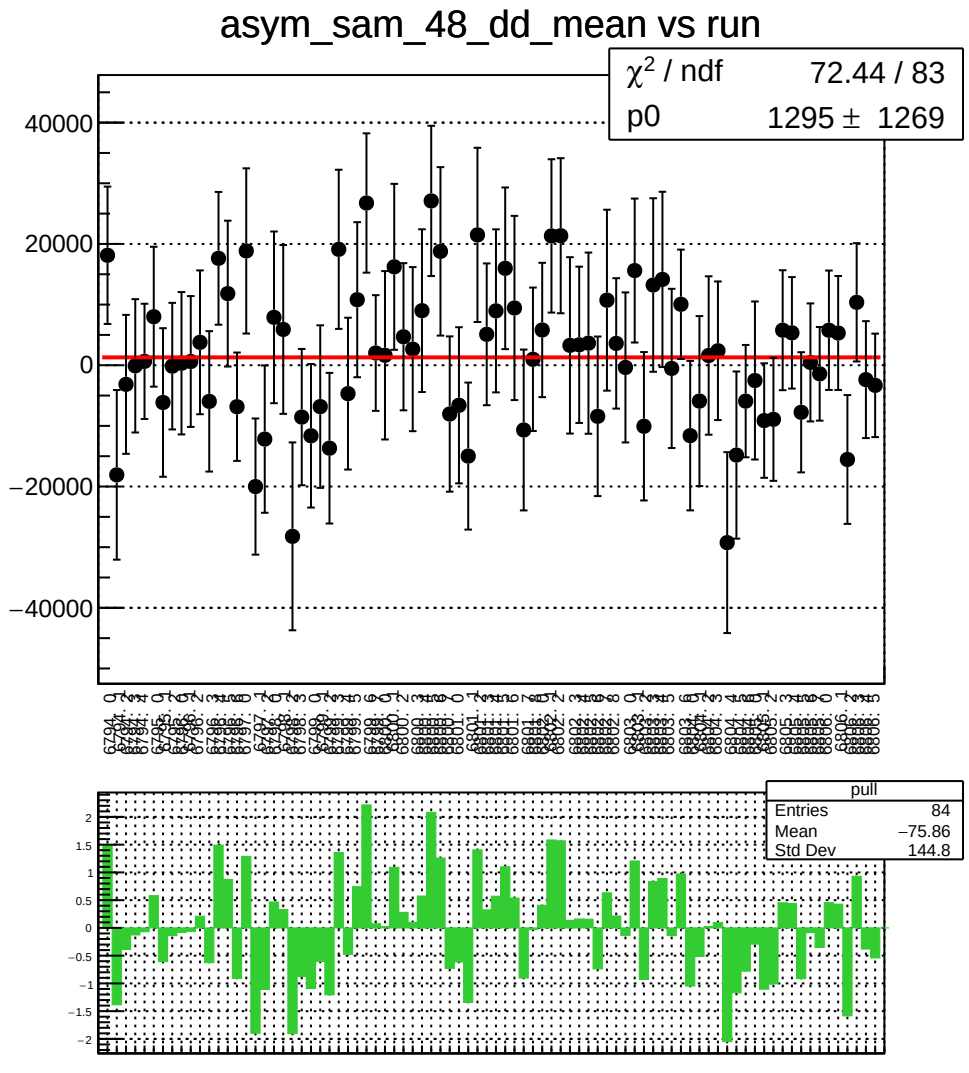

pull1D
Entries 84
Mean −0.003221
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

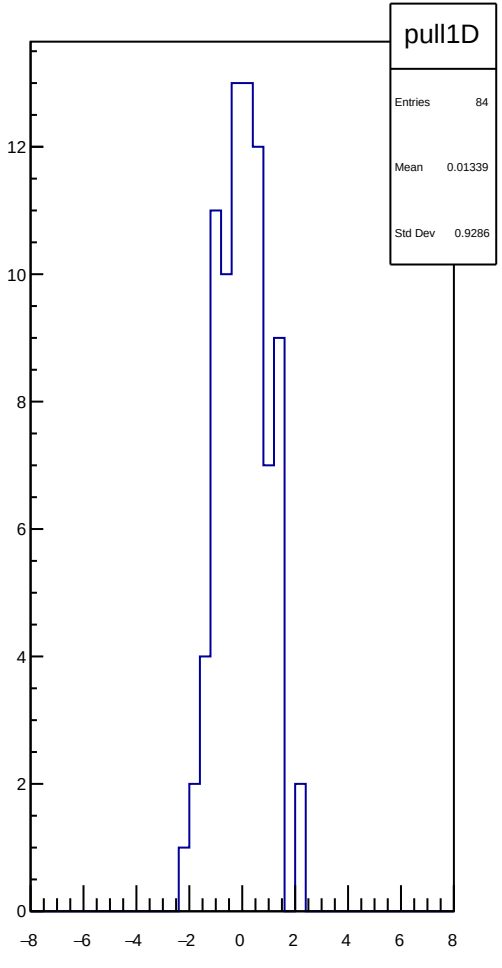

reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 6445 / 83
p0 147.2 ± 0.1157
200
190
180
170
160
150
140
130
120

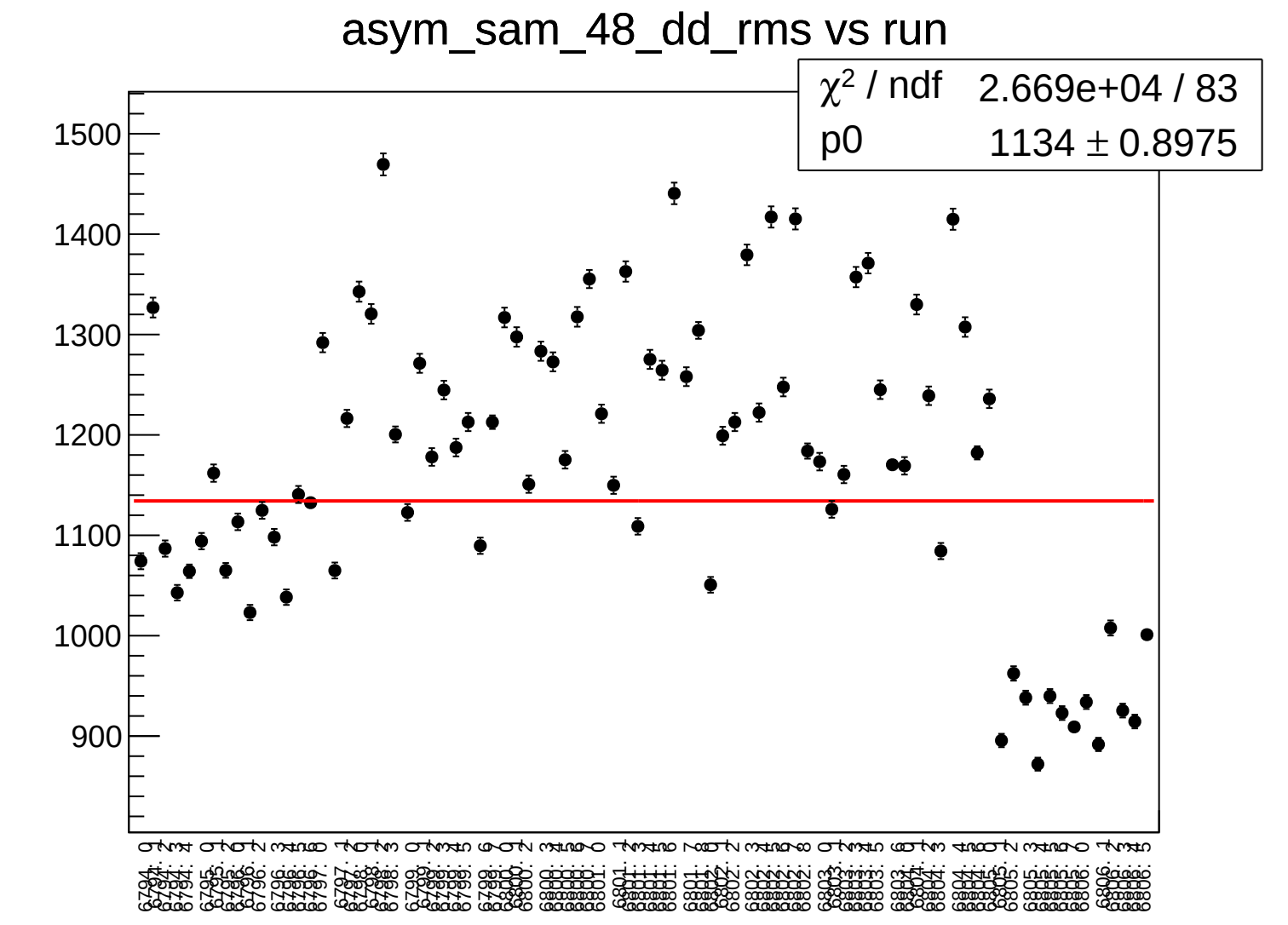

asym_sam_48_dd_correction_mean vs run
χ² / ndf 70.84 / 83
p0 −1465 ± 1258
pull
Entries 84
Mean −17.66
Std Dev 101.1

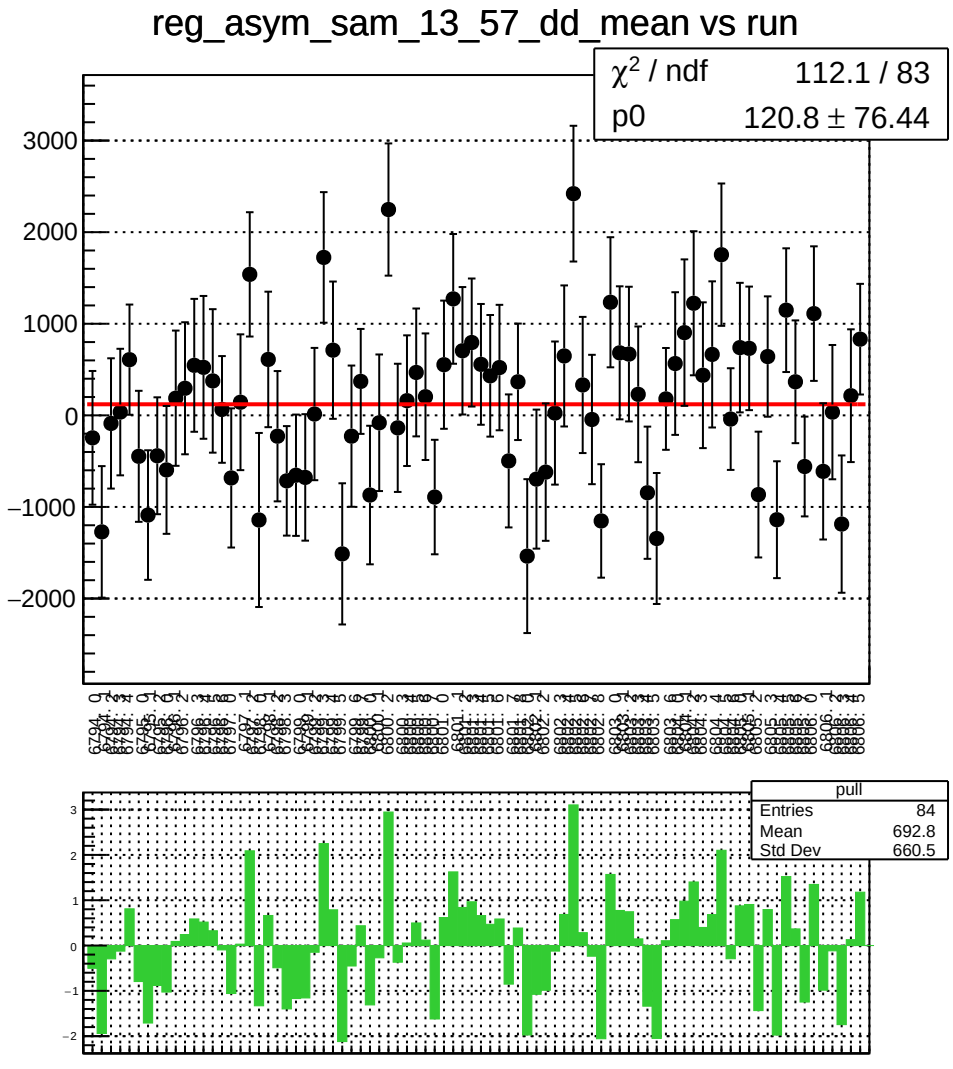

pull1D
Entries 84
Mean −0.0141
Std Dev 0.9182

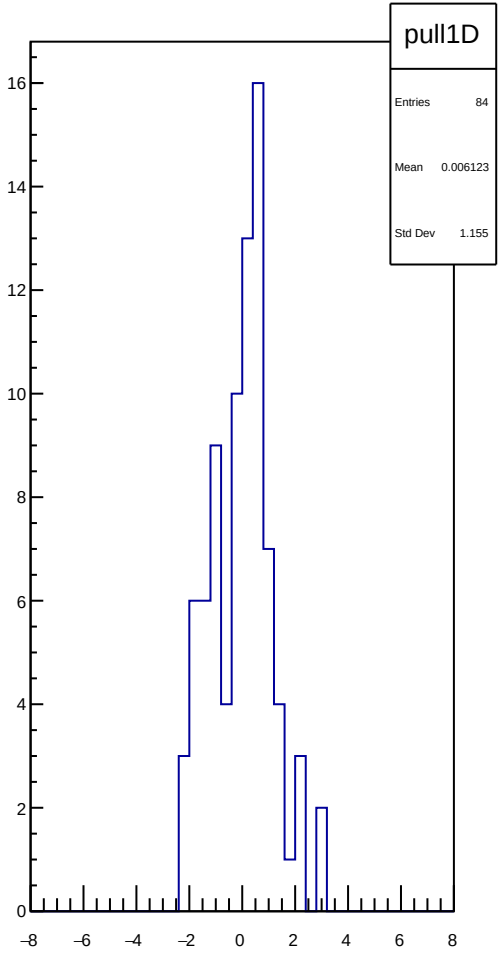

asym_sam_48_dd_correction_rms vs run
χ² / ndf 2.729e+04 / 83
p0 1124 ± 0.8897
1500
1400
1300
1200
1100
1000
900
800

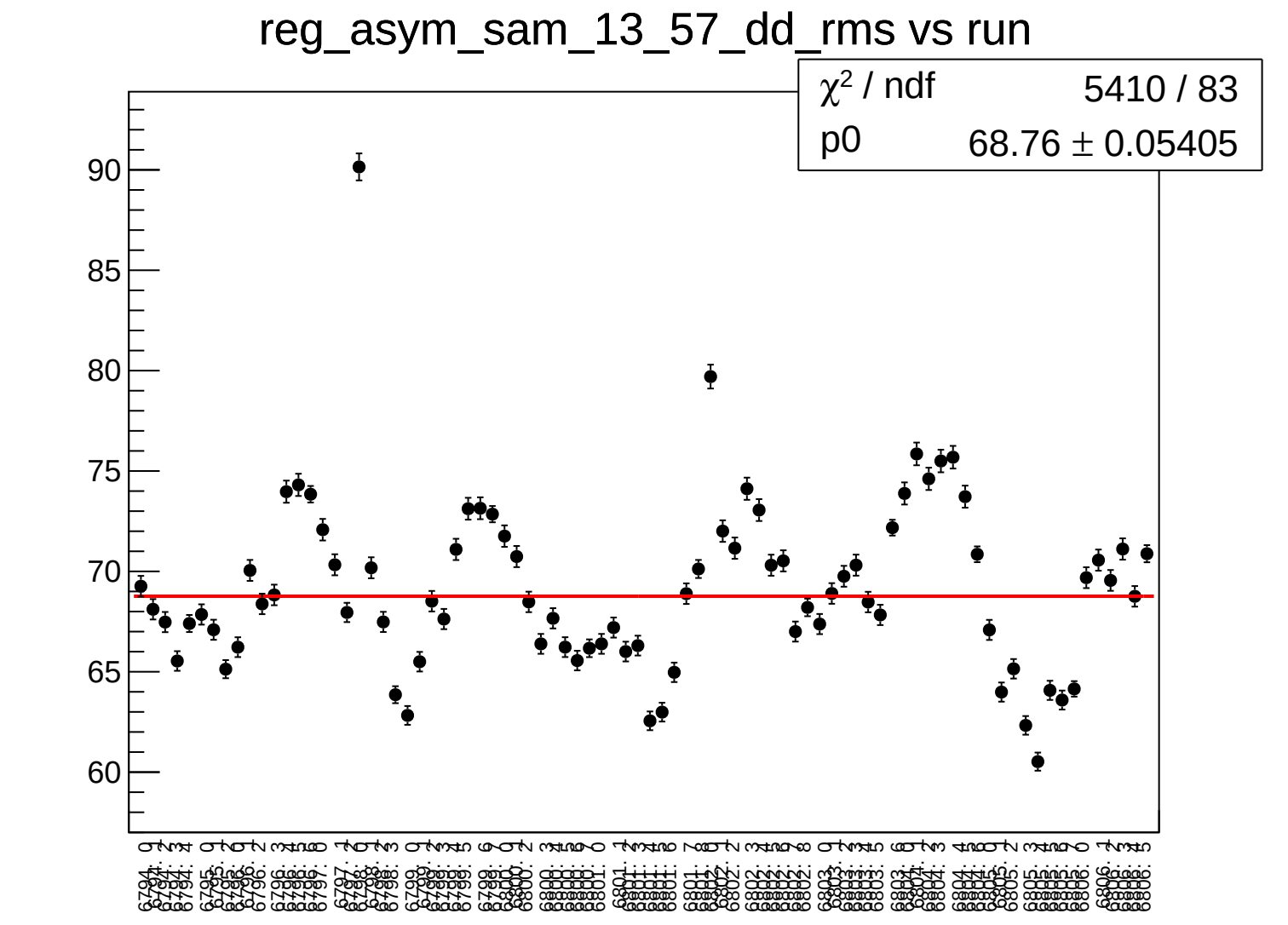

asym_sam_48_dd_mean vs run
χ² / ndf 72.44 / 83
p0 1295 ± 1269
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −75.86
Std Dev 144.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

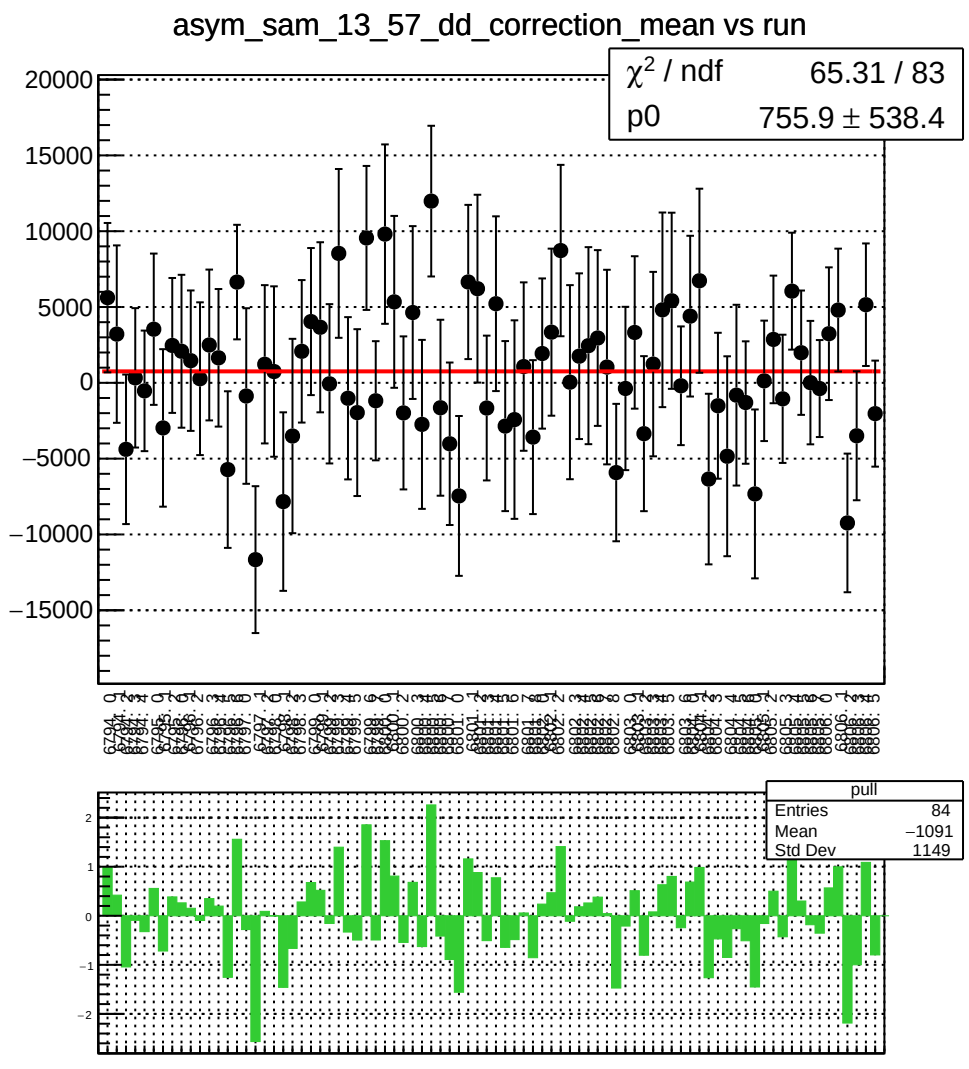

pull1D
Entries 84
Mean 0.01339
Std Dev 0.9286
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

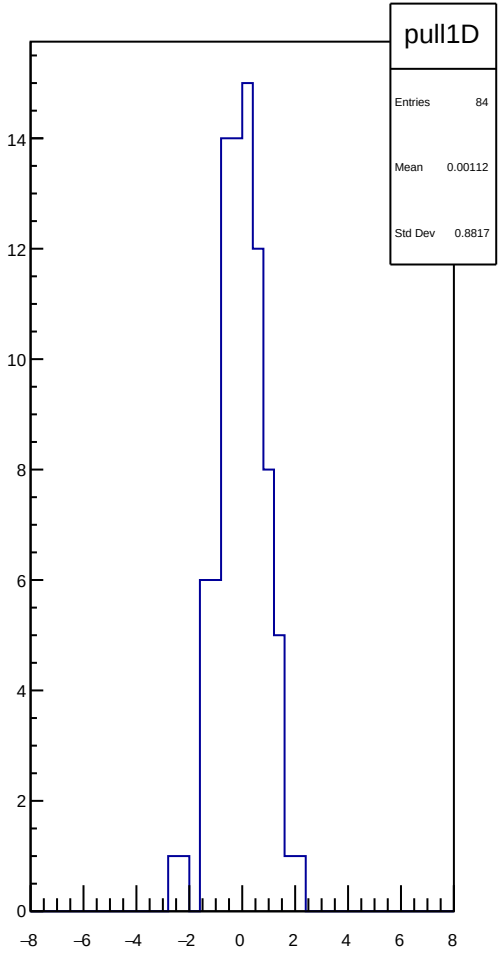

asym_sam_48_dd_rms vs run
χ² / ndf 2.669e+04 / 83
p0 1134 ± 0.8975
1500
1400
1300
1200
1100
1000
900

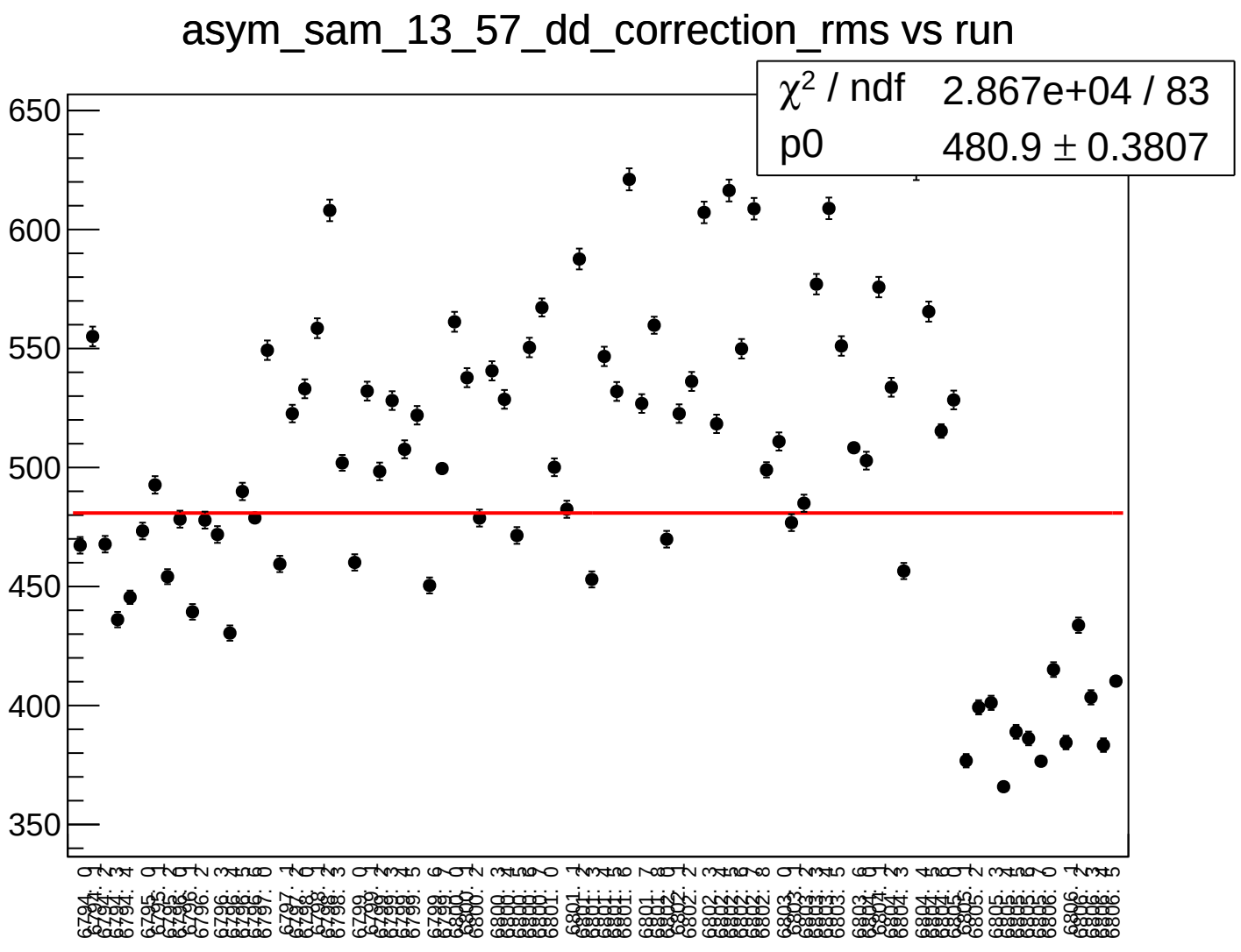

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 112.1 / 83
p0 120.8 ± 76.44
pull
Entries 84
Mean 692.8
Std Dev 660.5

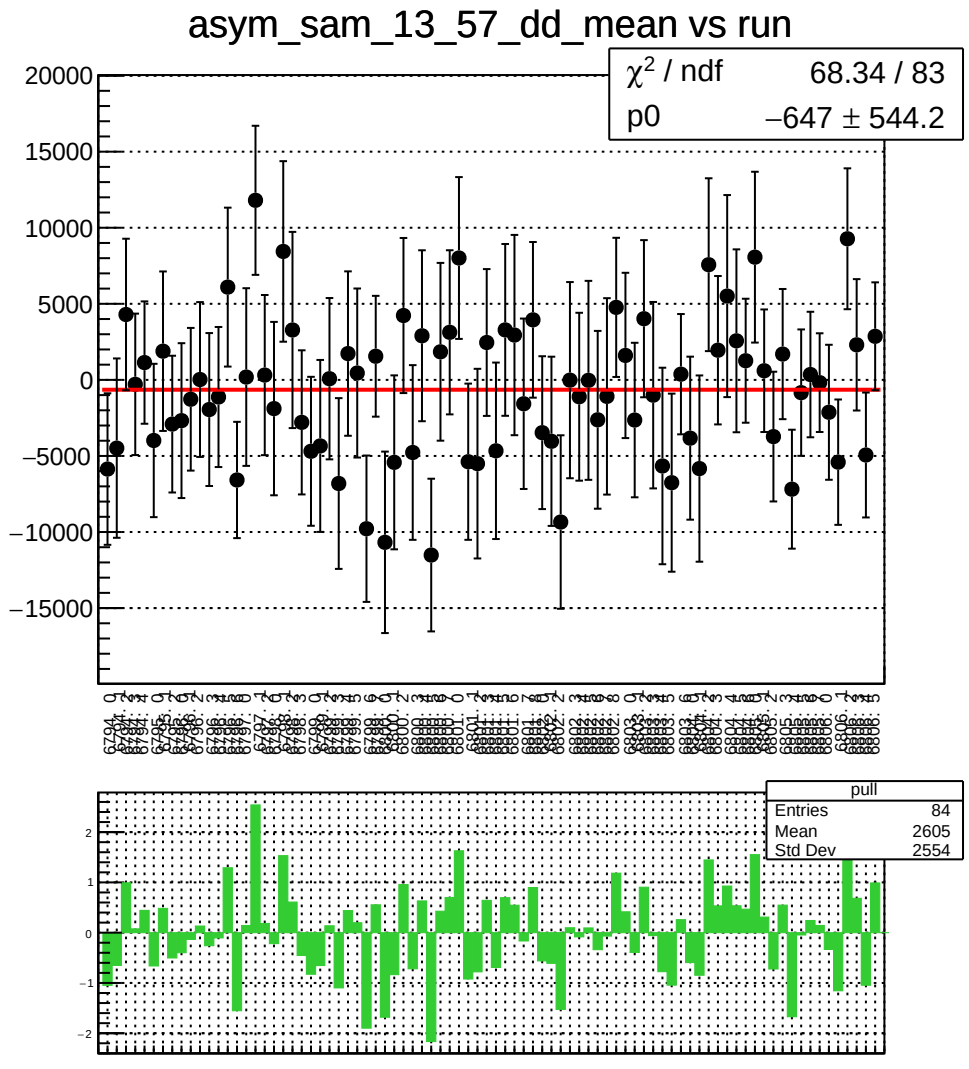

pull1D
Entries 84
Mean 0.006123
Std Dev 1.155

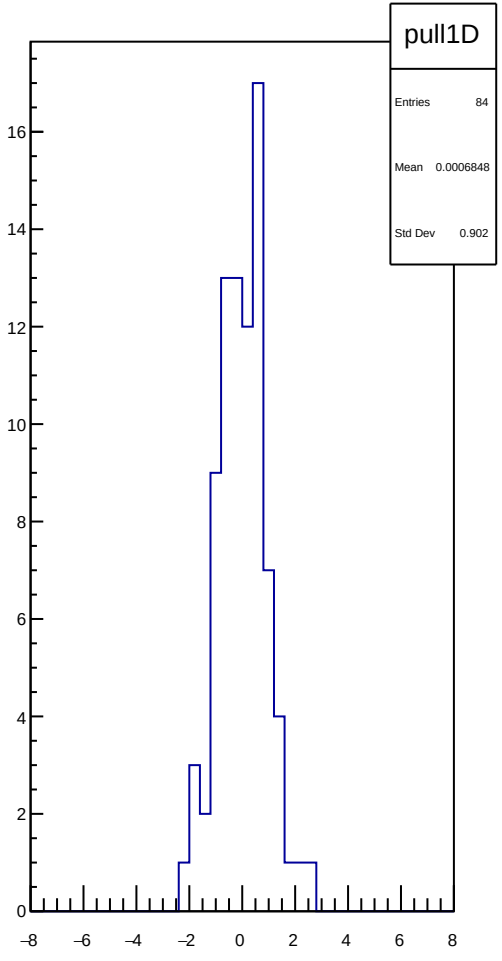

reg_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 5410 / 83
p0 68.76 ± 0.05405
90
85
80
75
70
65
60

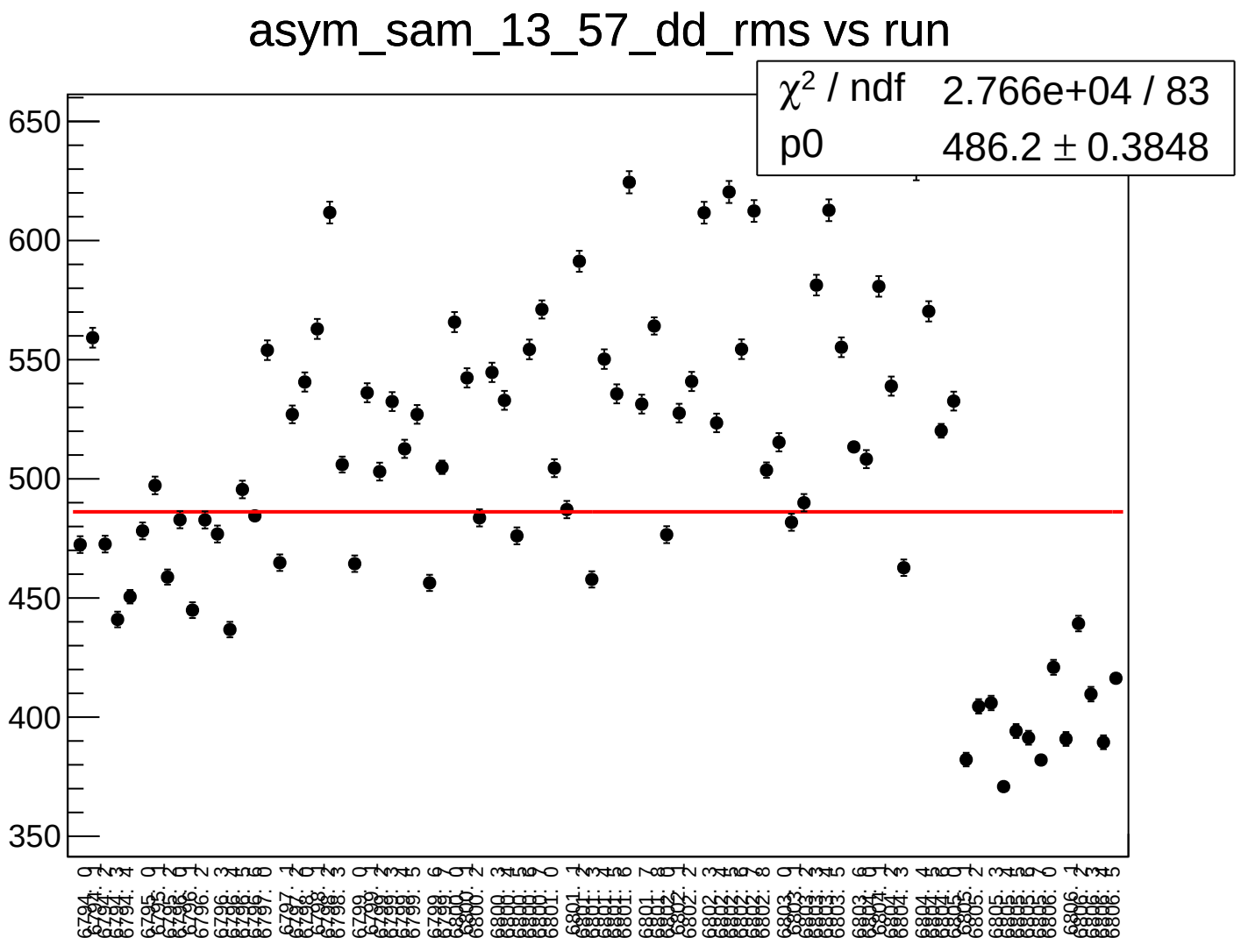

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 65.31 / 83
p0 755.9 ± 538.4
pull
Entries 84
Mean −1091
Std Dev 1149

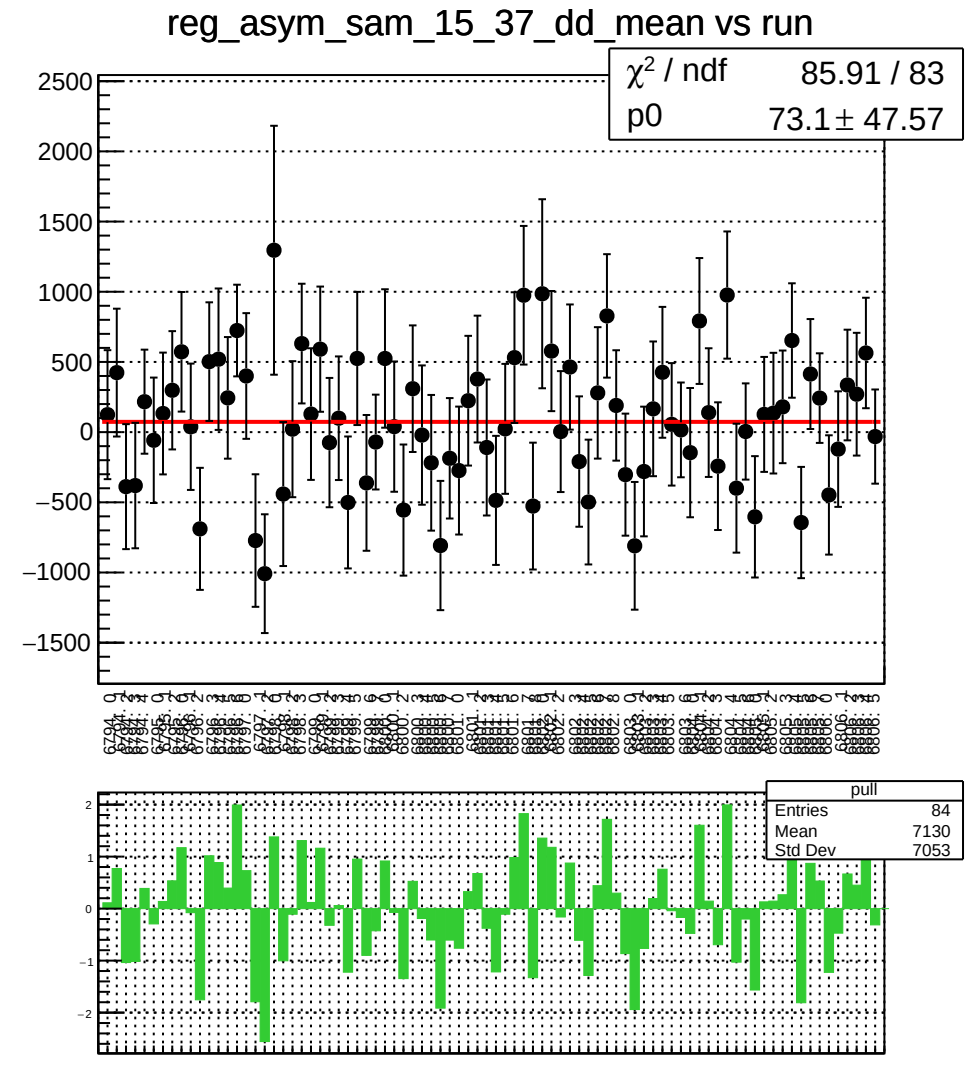

pull1D
Entries 84
Mean 0.00112
Std Dev 0.8817

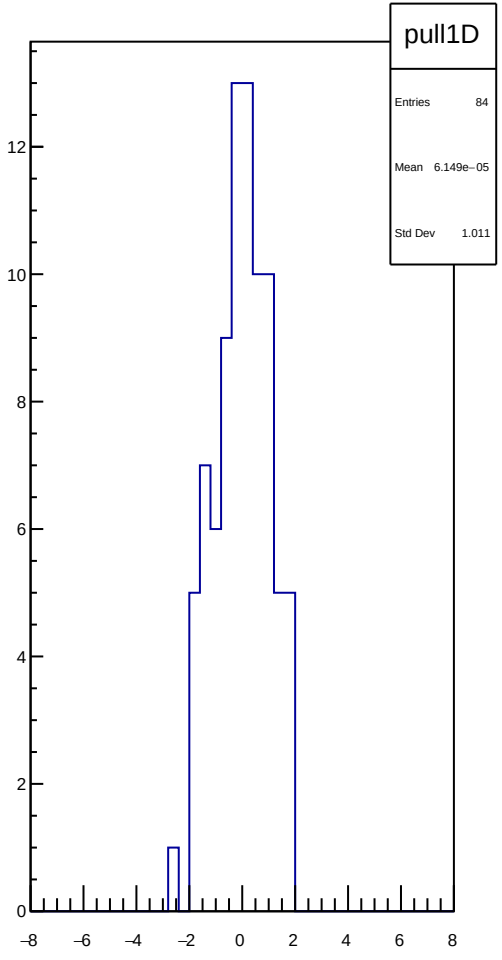

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 2.867e+04 / 83
p0 480.9 ± 0.3807
650
600
550
500
450
400
350

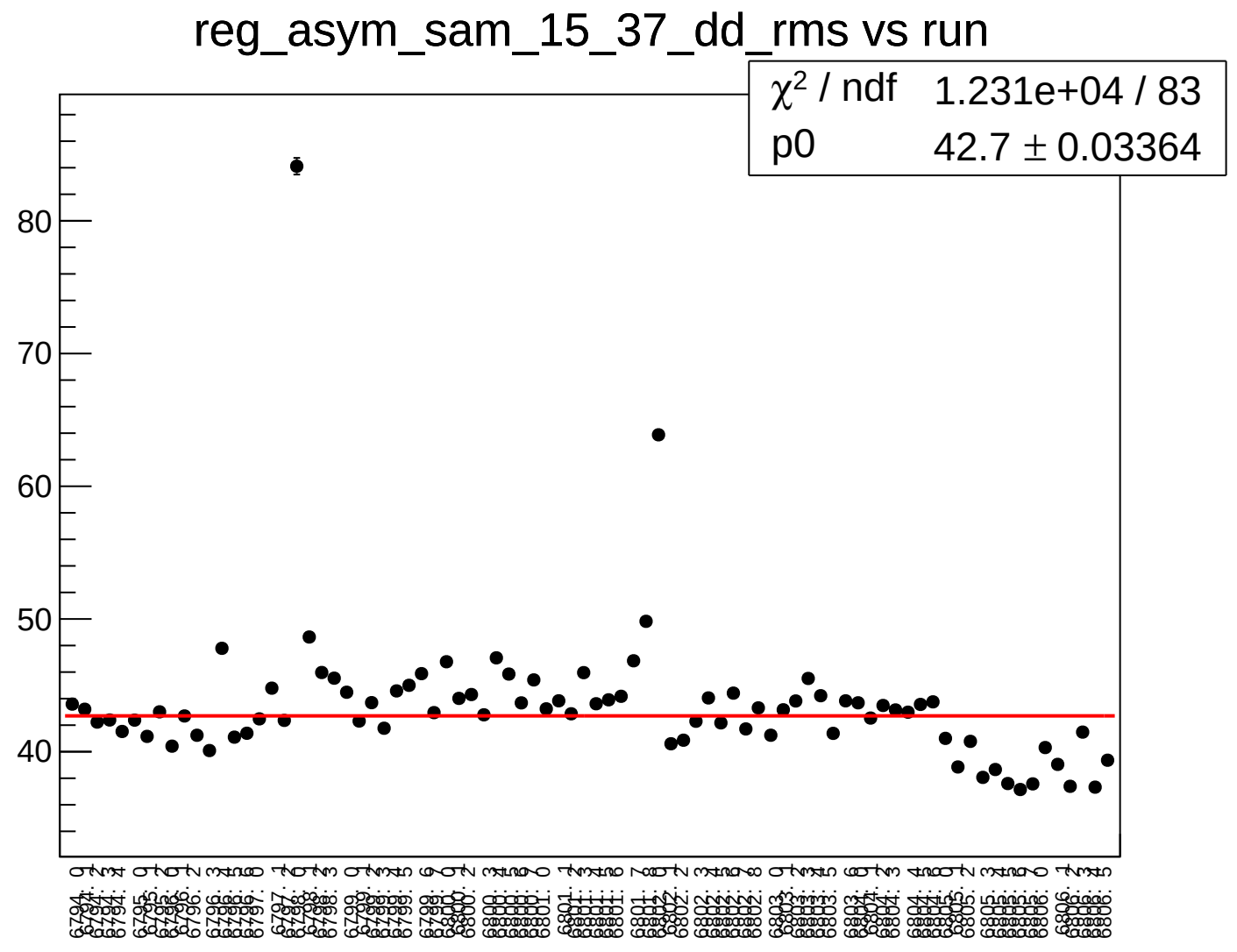

asym_sam_13_57_dd_mean vs run
χ² / ndf 68.34 / 83
p0 −647 ± 544.2
pull
Entries 84
Mean 2605
Std Dev 2554

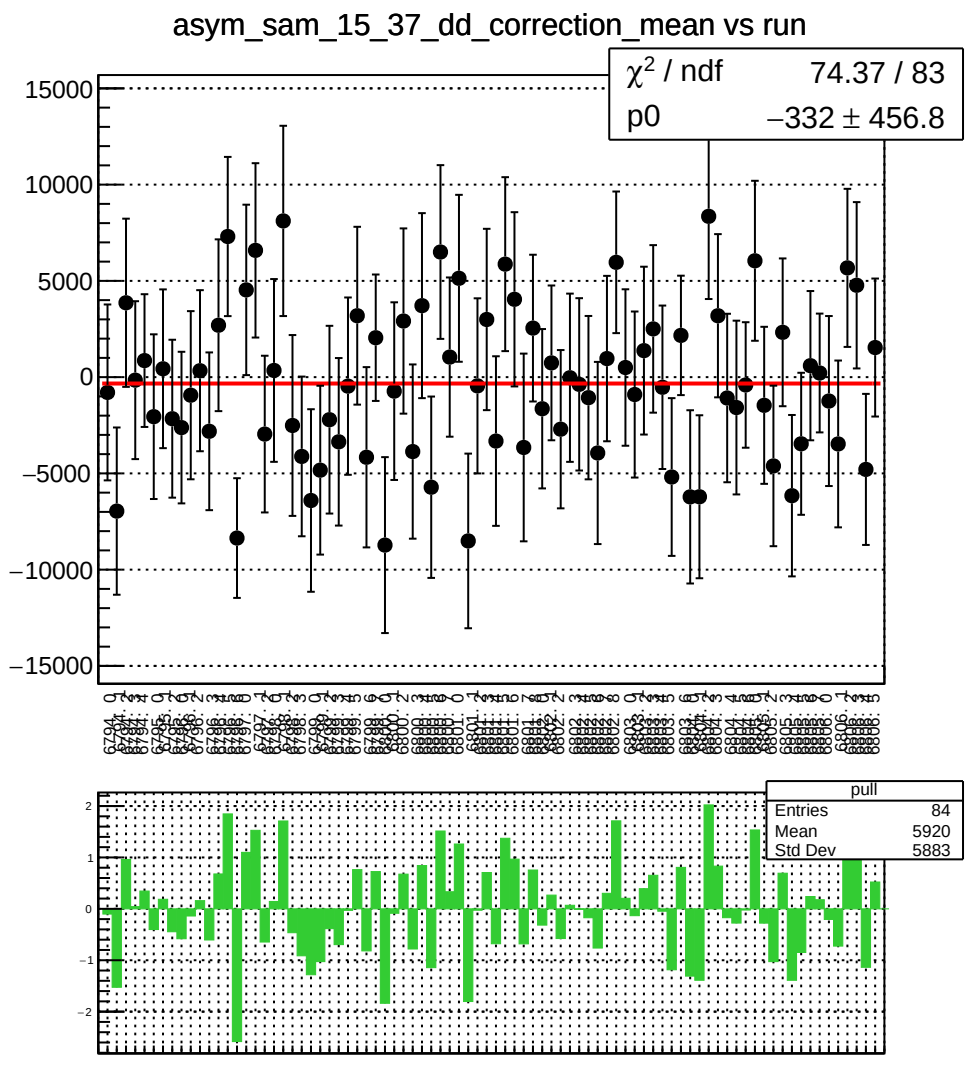

pull1D
Entries 84
Mean 0.0006848
Std Dev 0.902

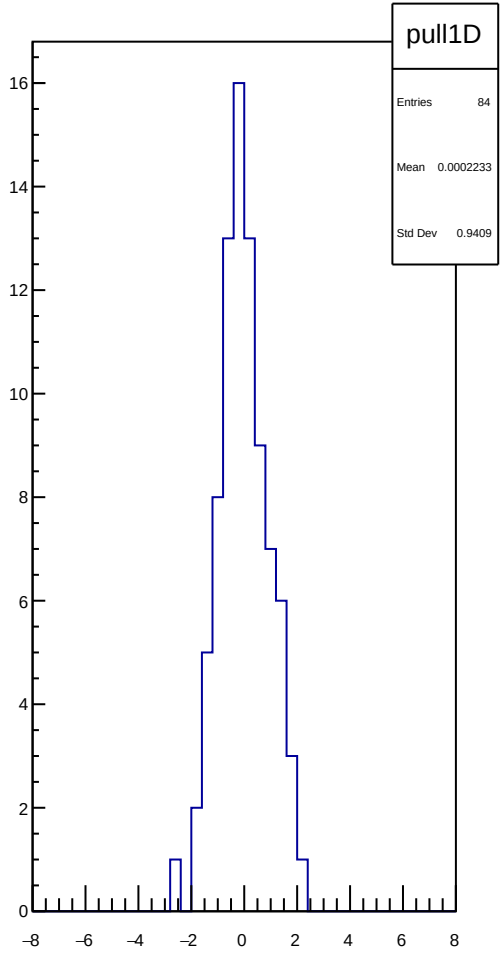

asym_sam_13_57_dd_rms vs run
χ² / ndf 2.766e+04 / 83
p0 486.2 ± 0.3848
650
600
550
500
450
400
350

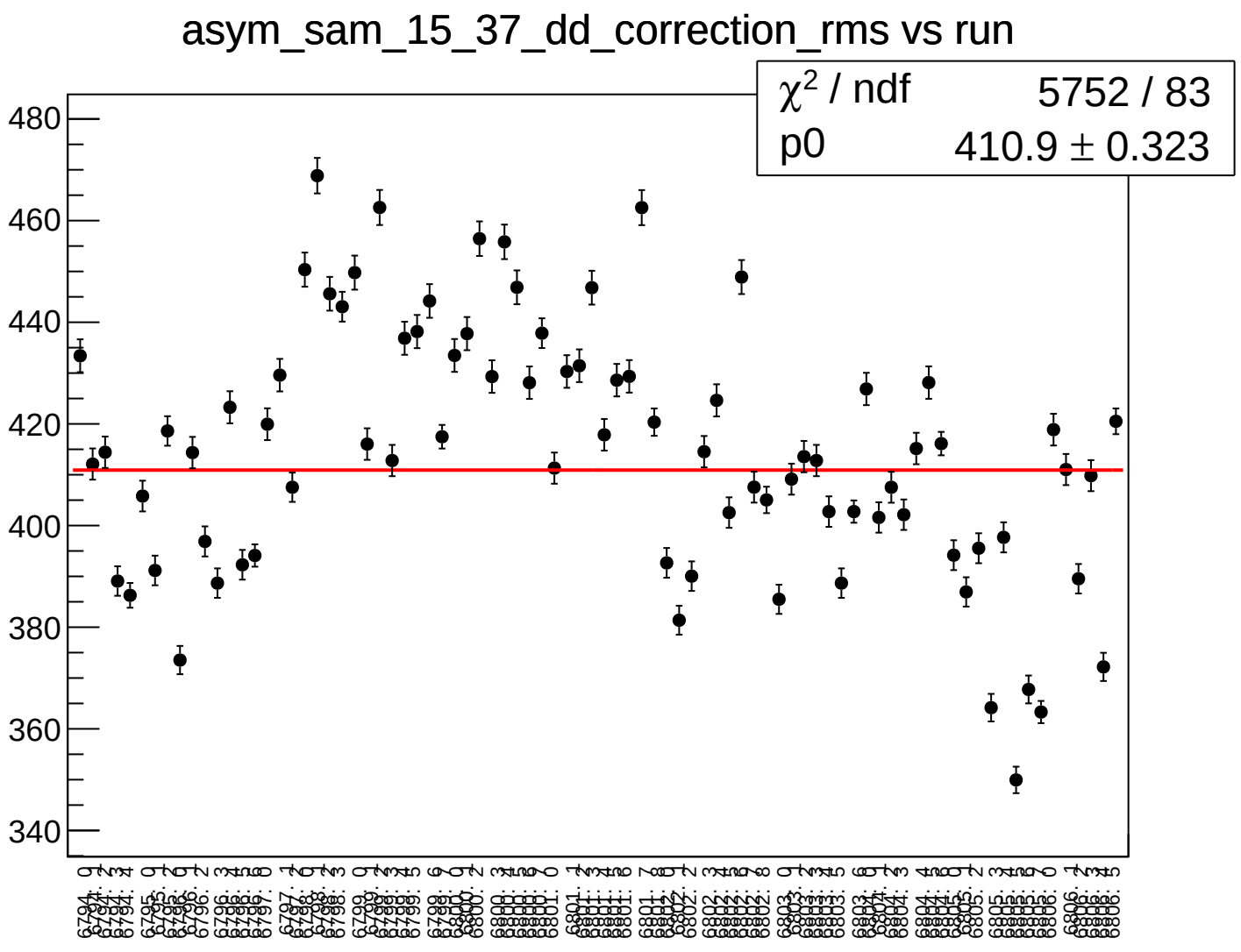

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 85.91 / 83
p0 73.1 ± 47.57
pull
Entries 84
Mean 7130
Std Dev 7053

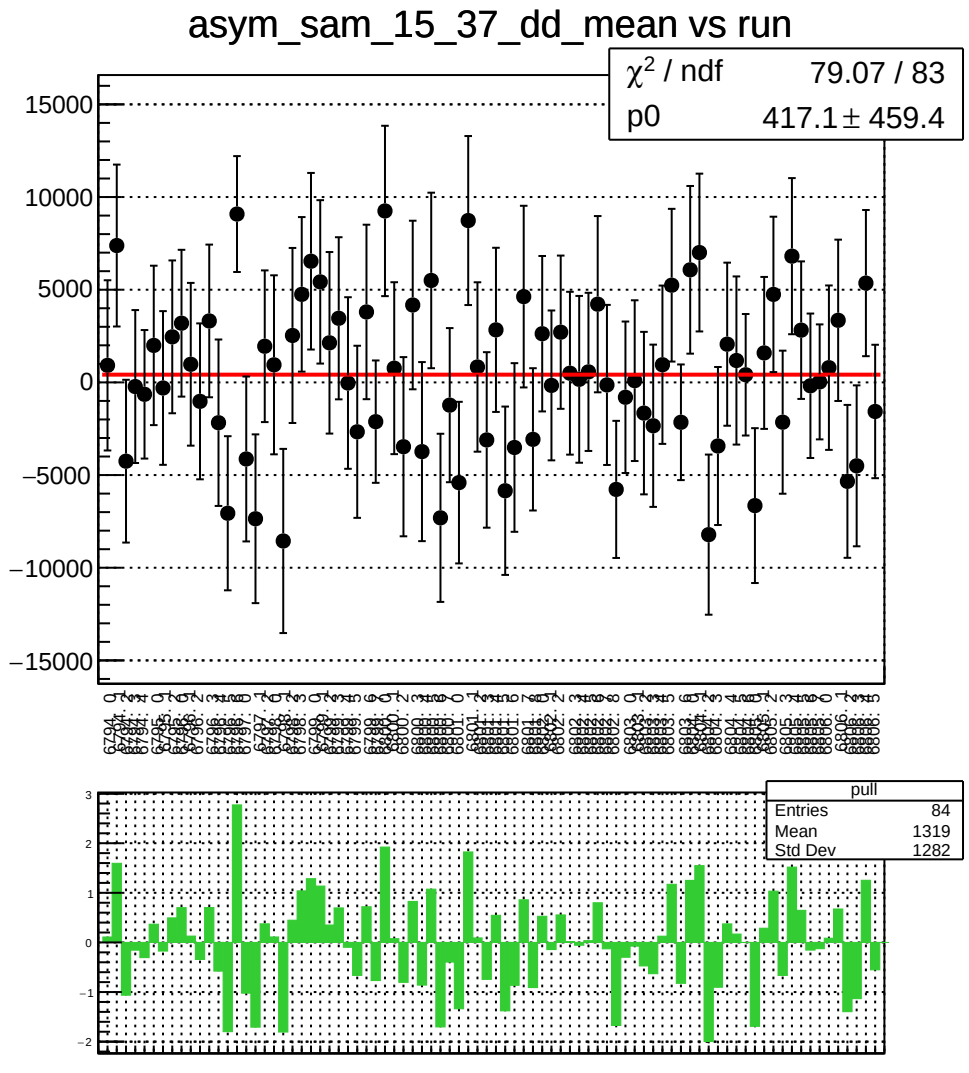

pull1D
Entries 84
Mean 6.149e−05
Std Dev 1.011

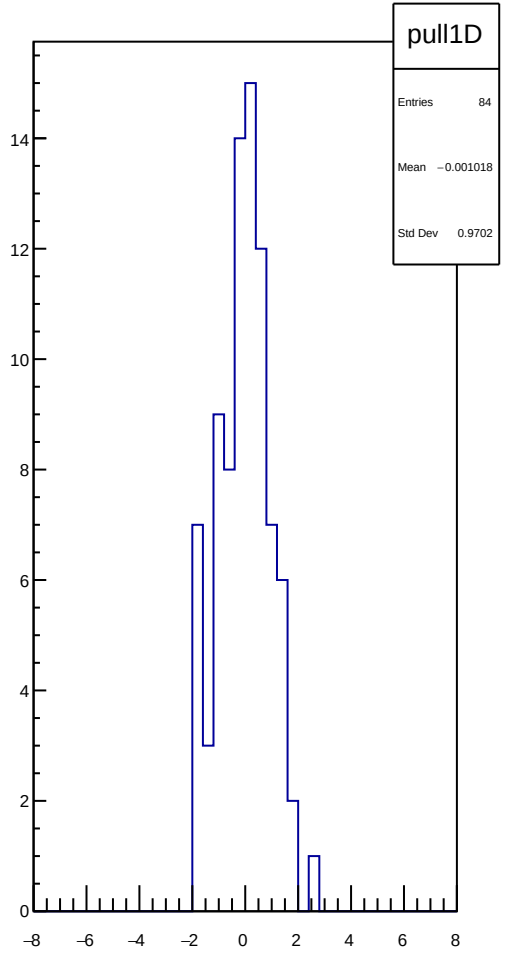

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.231e+04 / 83
p0 42.7 ± 0.03364
80
70
60
50
40

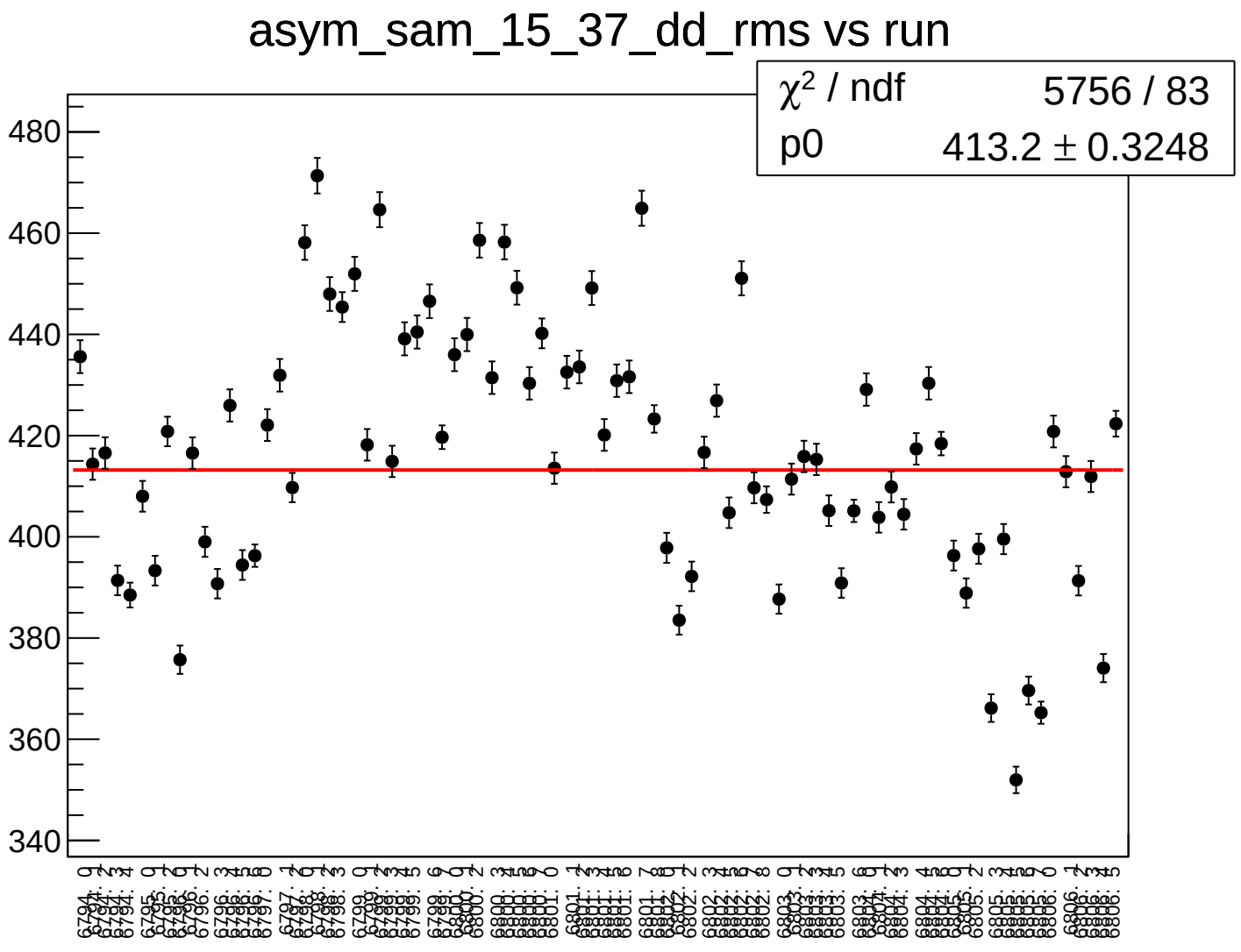

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 74.37 / 83
p0 −332 ± 456.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 5920
Std Dev 5883
2
1
0
−1
−2

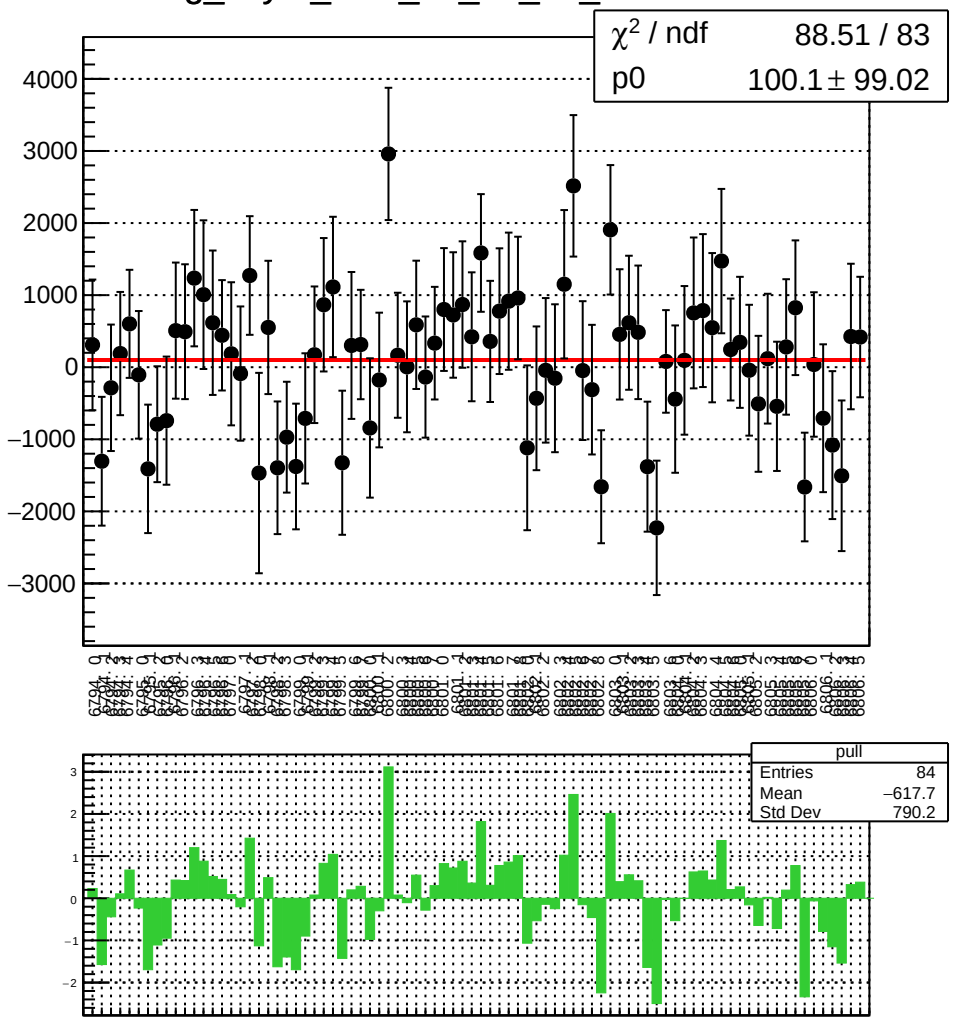

pull1D
Entries 84
Mean 0.0002233
Std Dev 0.9409
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

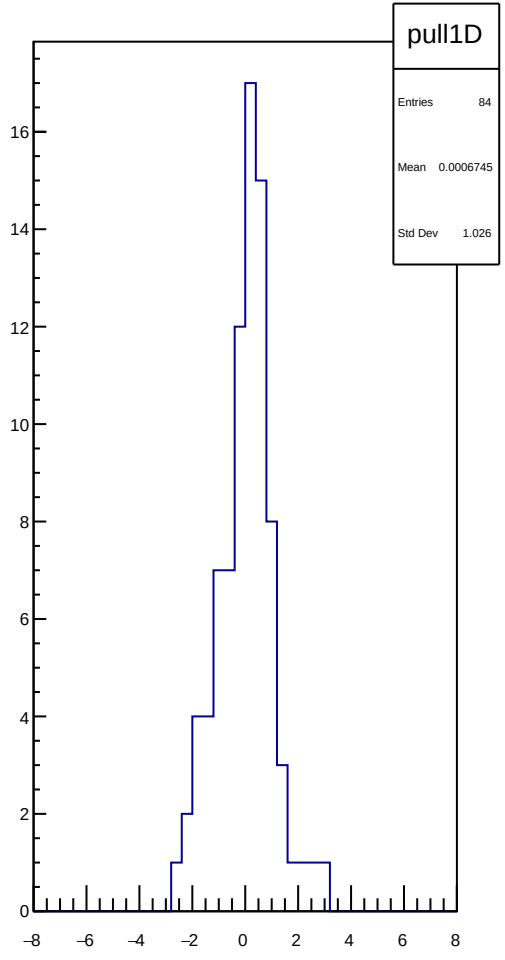

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 5752 / 83
p0 410.9 ± 0.323
480
460
440
420
400
380
360
340

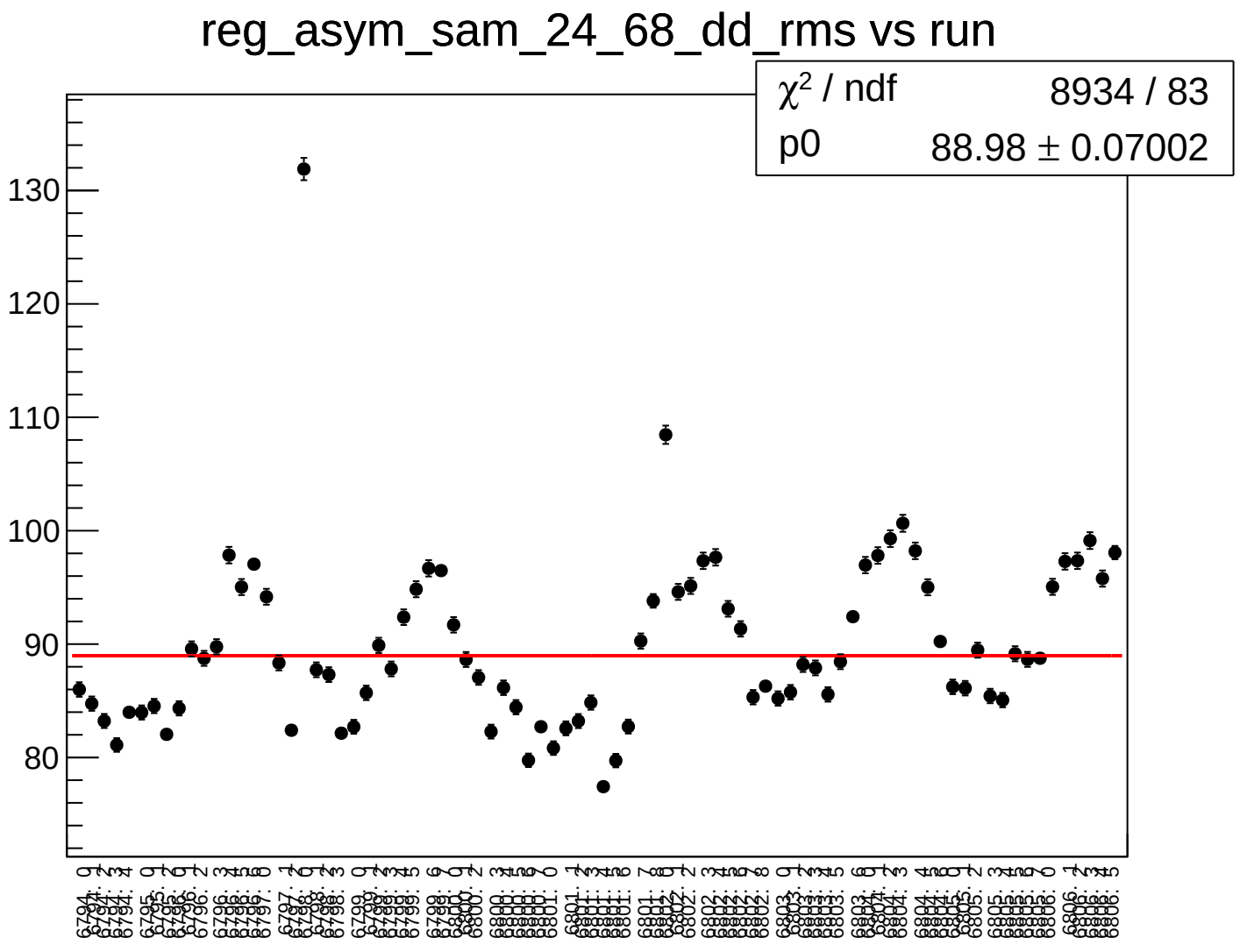

asym_sam_15_37_dd_mean vs run
χ² / ndf 79.07 / 83
p0 417.1 ± 459.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 1319
Std Dev 1282
3
2
1
0
−1
−2

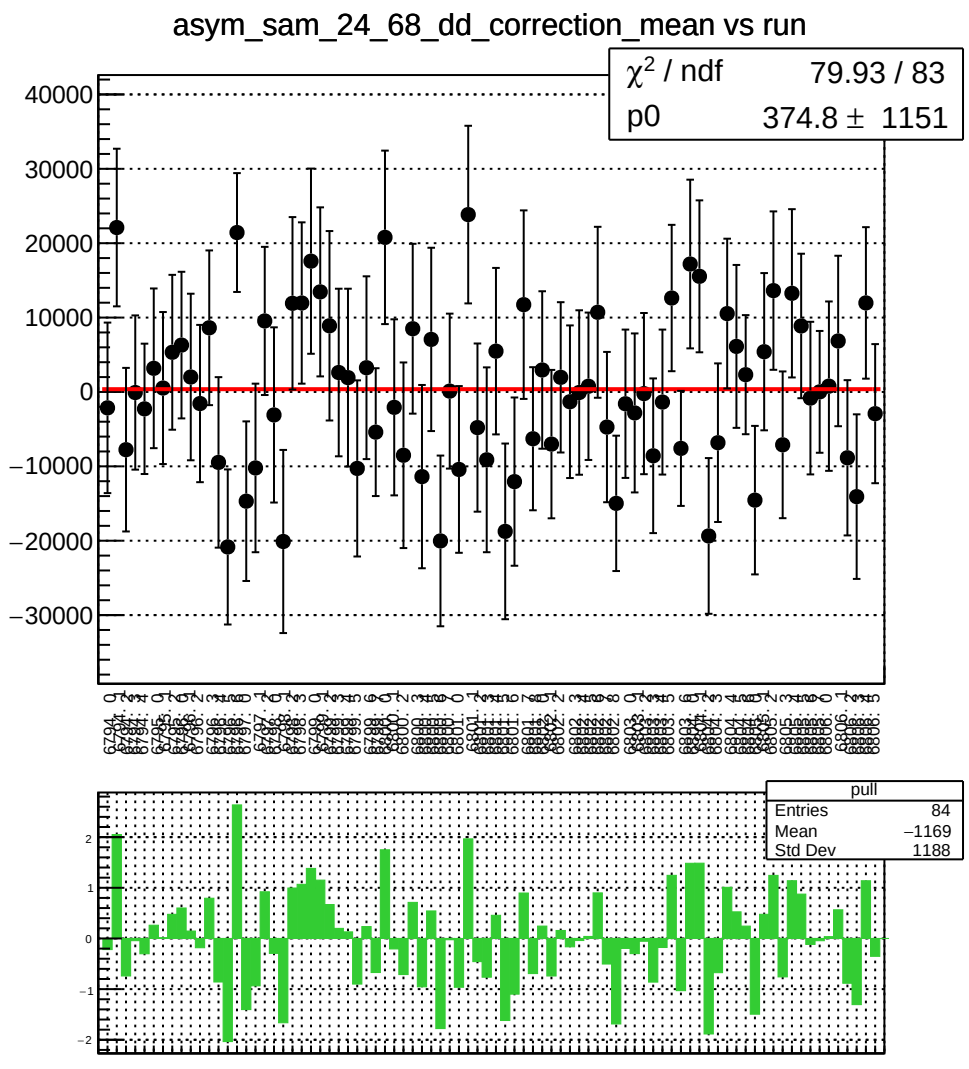

pull1D
Entries 84
Mean −0.001018
Std Dev 0.9702
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

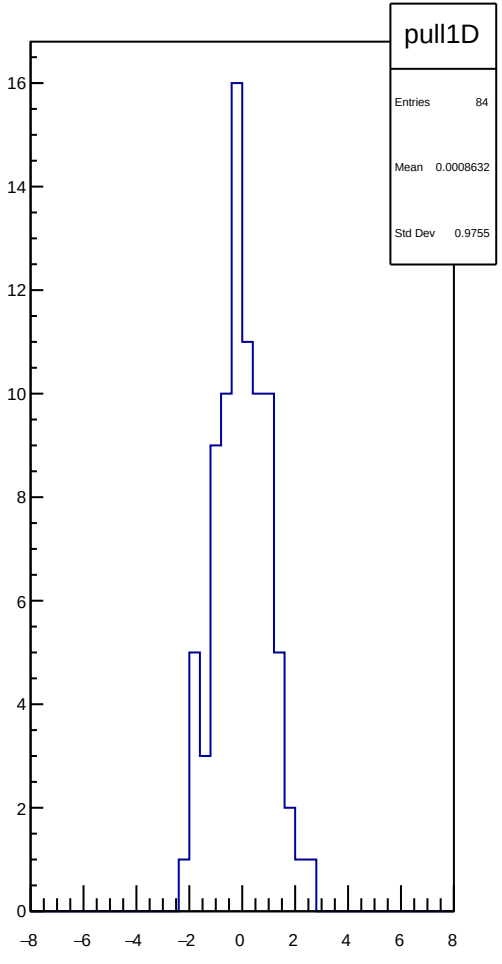

asym_sam_15_37_dd_rms vs run
χ^2 / ndf 5756 / 83
p0 413.2 ± 0.3248
480
460
440
420
400
380
360
340

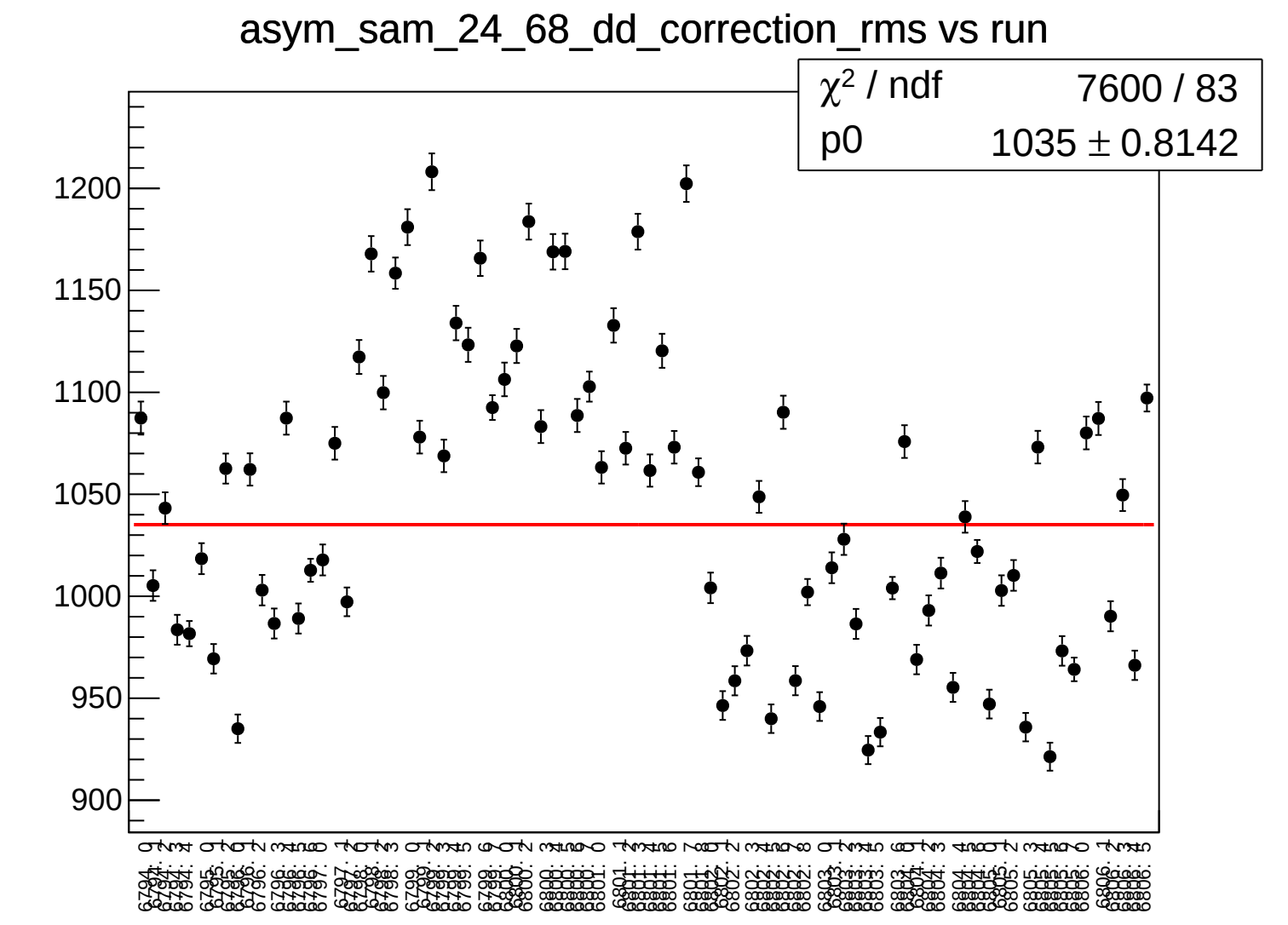

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 88.51 / 83
p0 100.1 ± 99.02
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −617.7
Std Dev 790.2
3
2
1
0
−1
−2

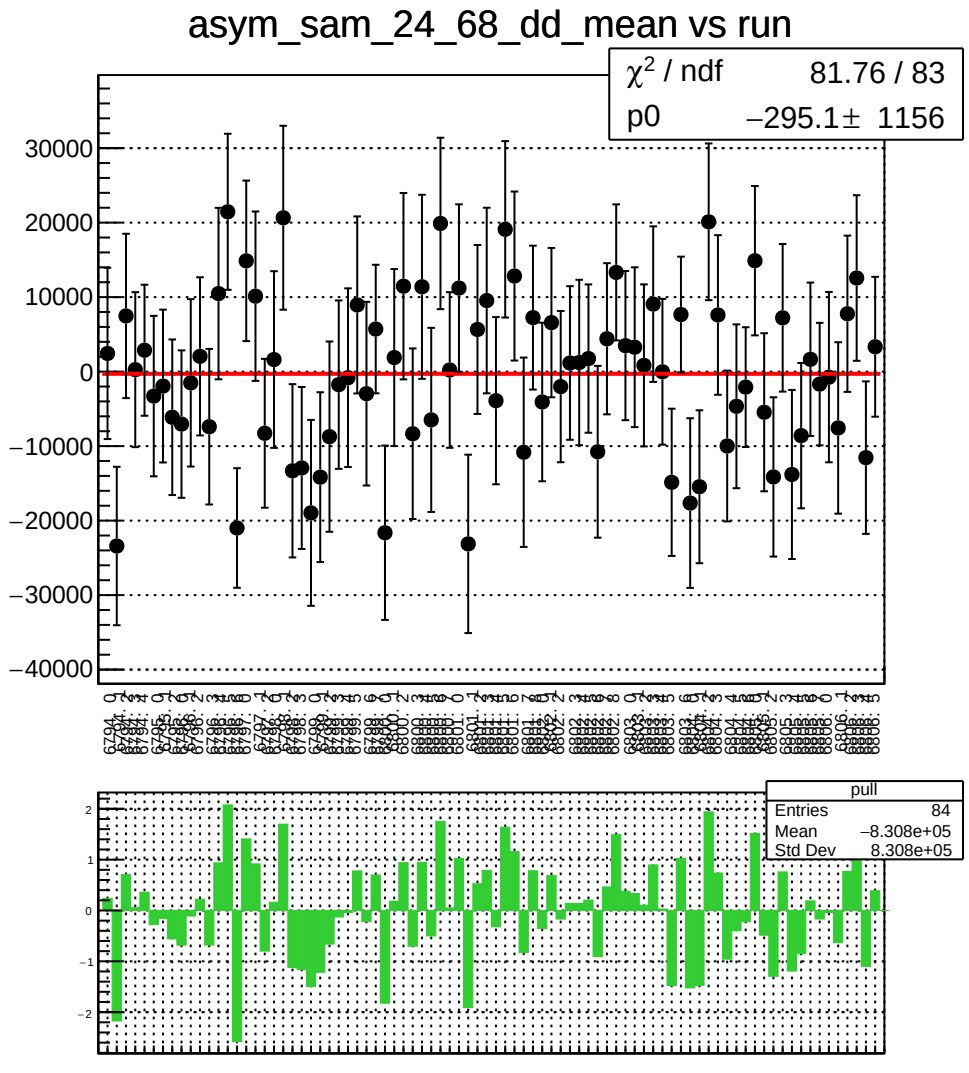

pull1D
Entries 84
Mean 0.0006745
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

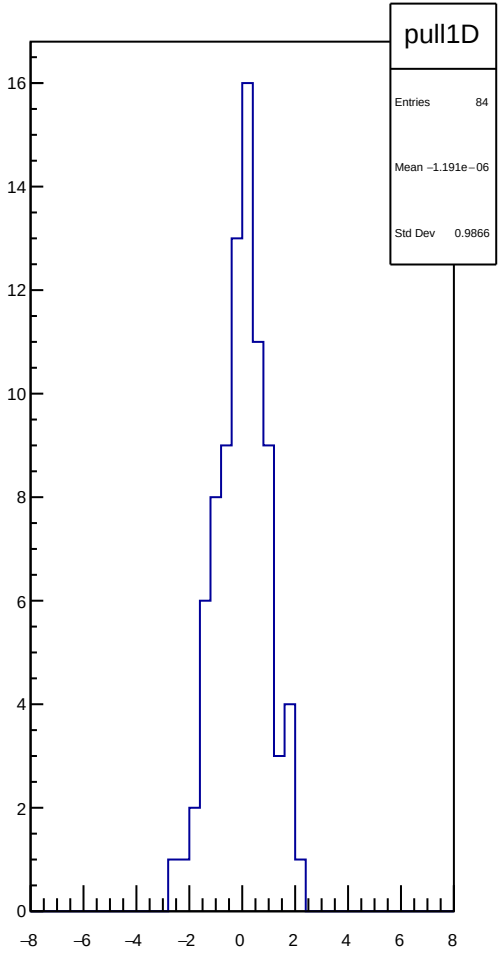

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 8934 / 83
p0 88.98 ± 0.07002
130
120
110
100
90
80

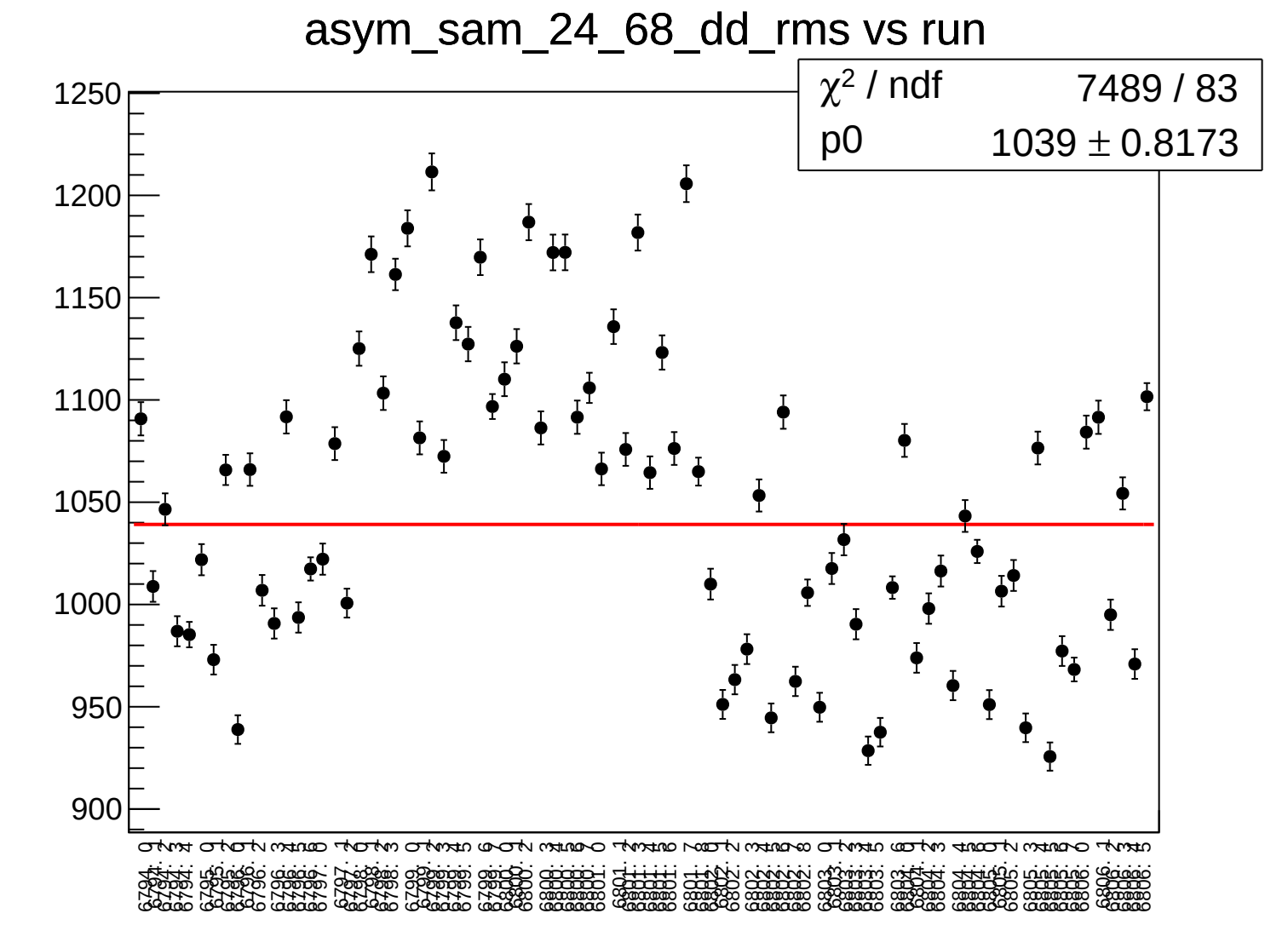

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 79.93 / 83
p0 374.8 ± 1151
pull
Entries 84
Mean −1169
Std Dev 1188

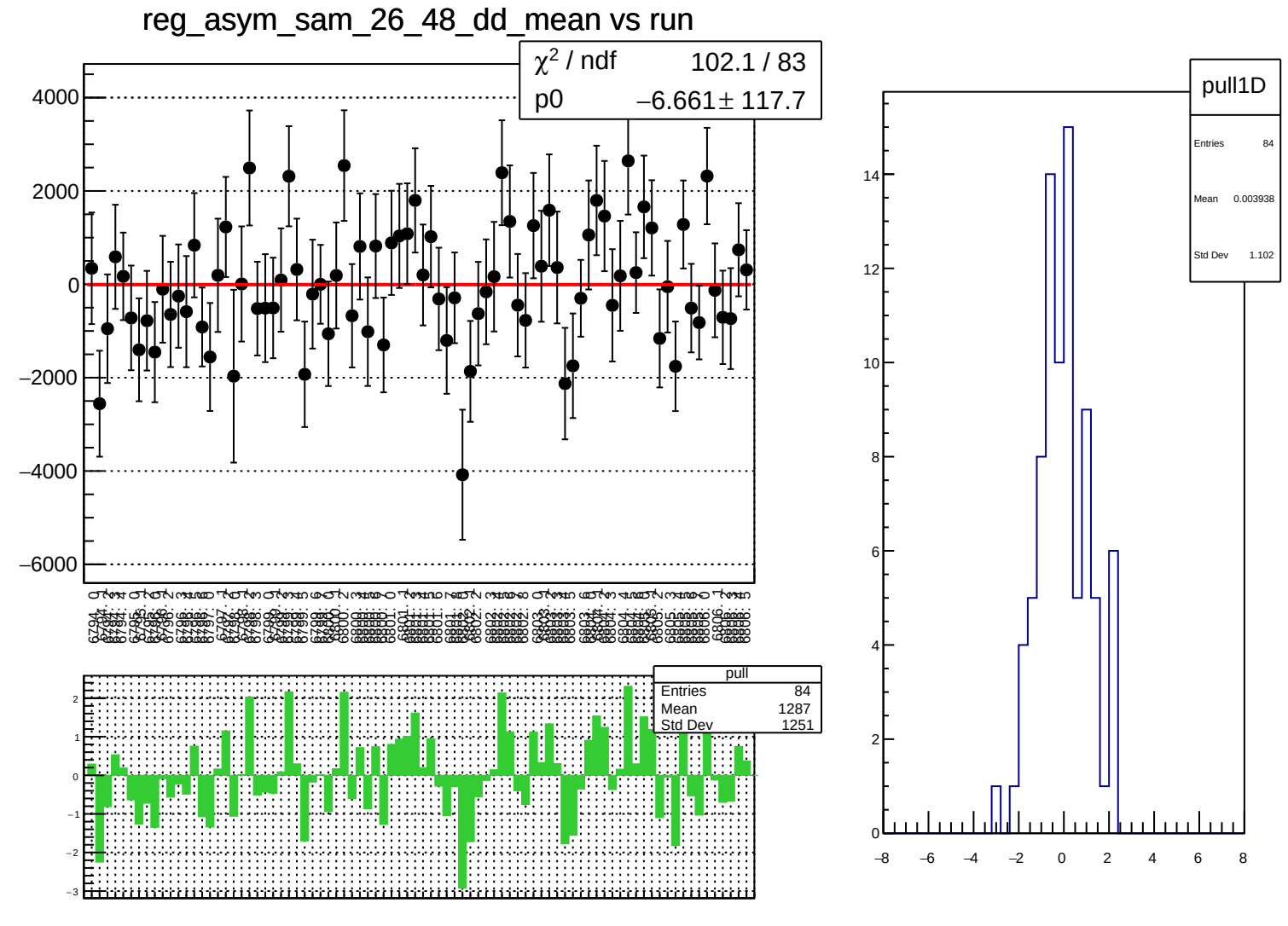

pull1D
Entries 84
Mean 0.0008632
Std Dev 0.9755

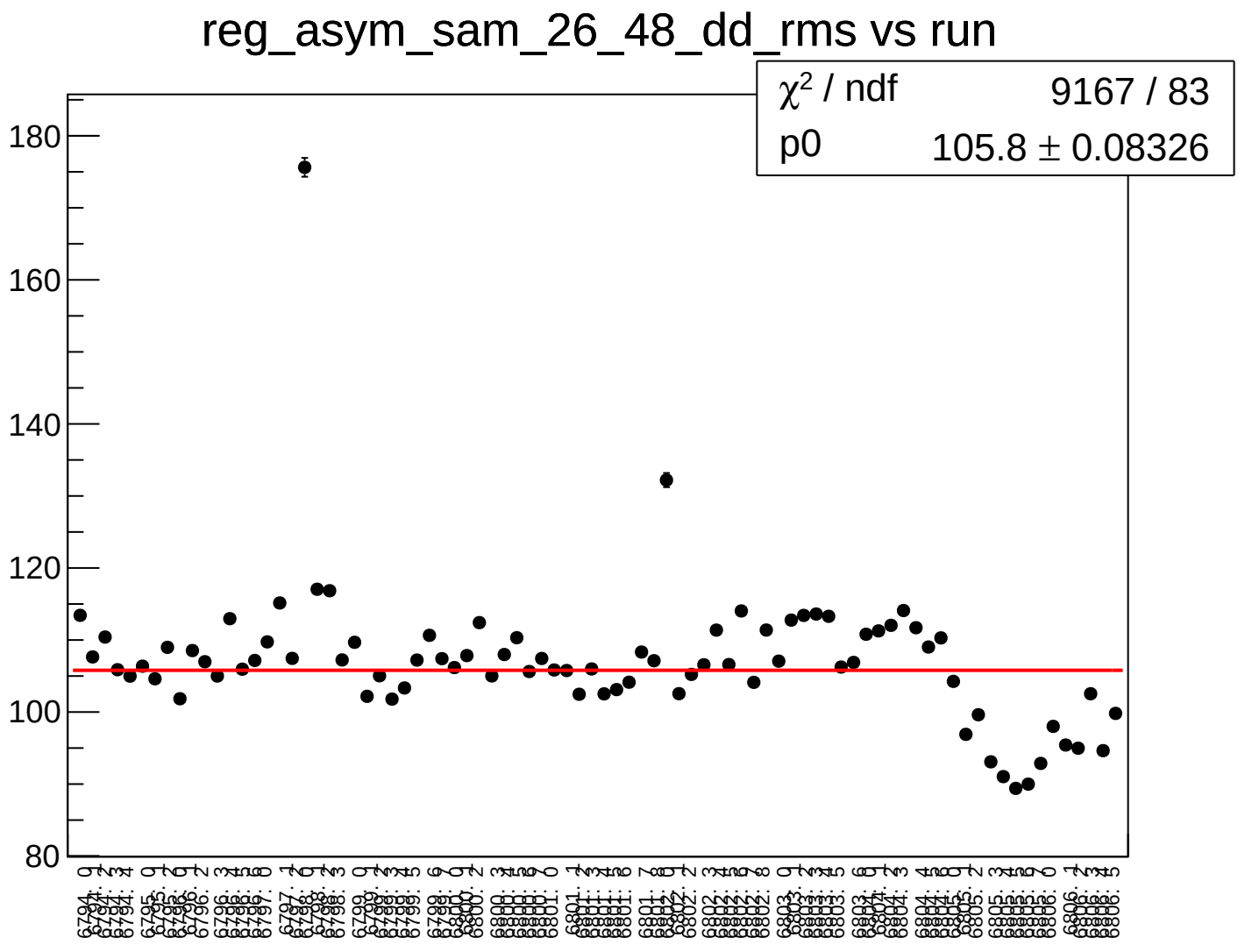

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 7600 / 83
p0 1035 ± 0.8142
1200
1150
1100
1050
1000
950
900

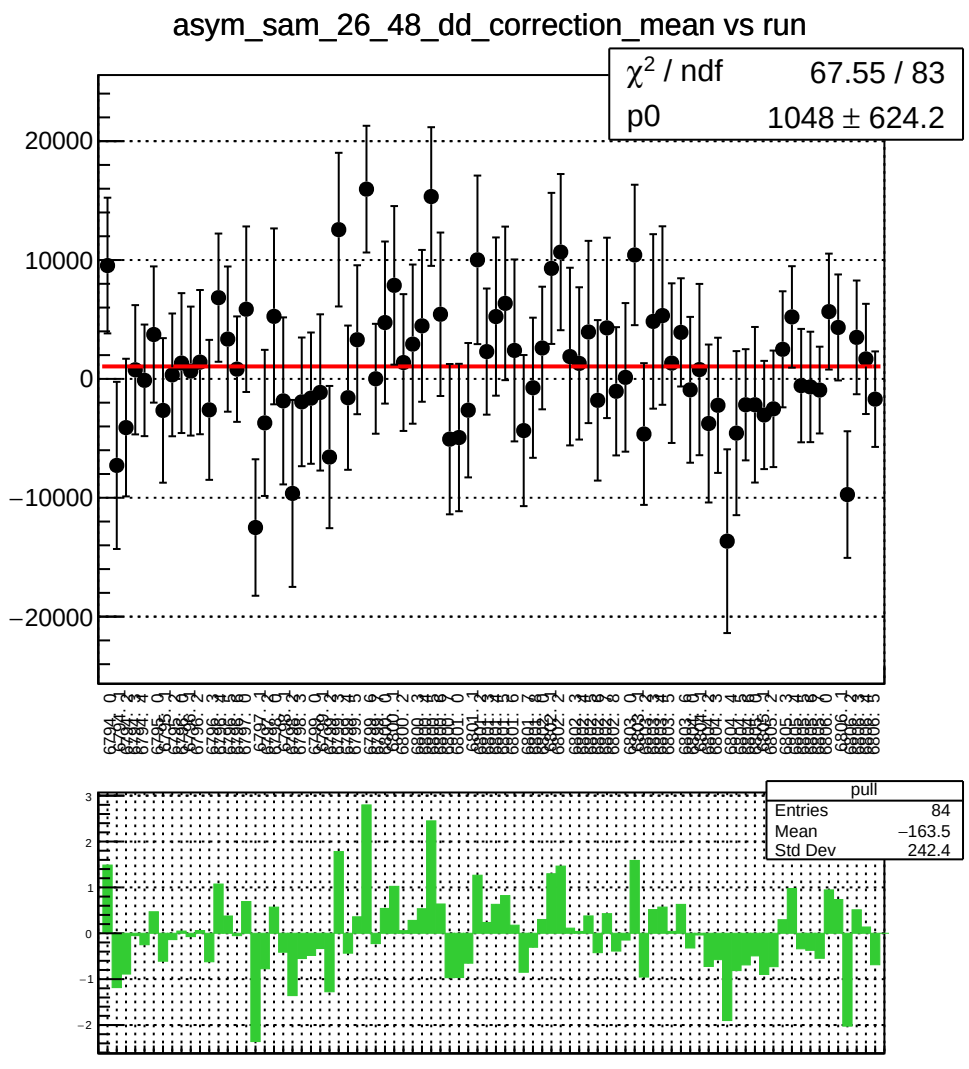

asym_sam_24_68_dd_mean vs run
χ² / ndf 81.76 / 83
p0 −295.1± 1156
pull
Entries 84
Mean −8.308e+05
Std Dev 8.308e+05

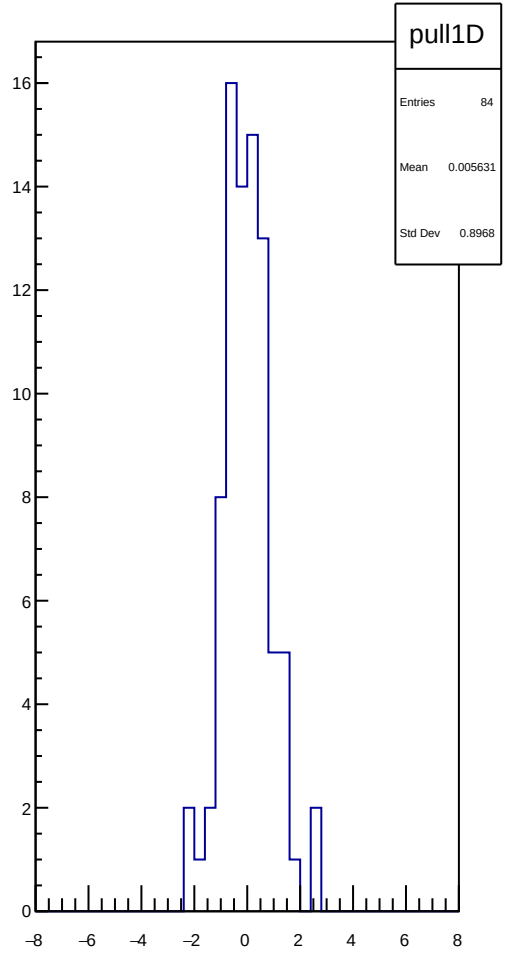

pull1D
Entries 84
Mean −1.191e−06
Std Dev 0.9866

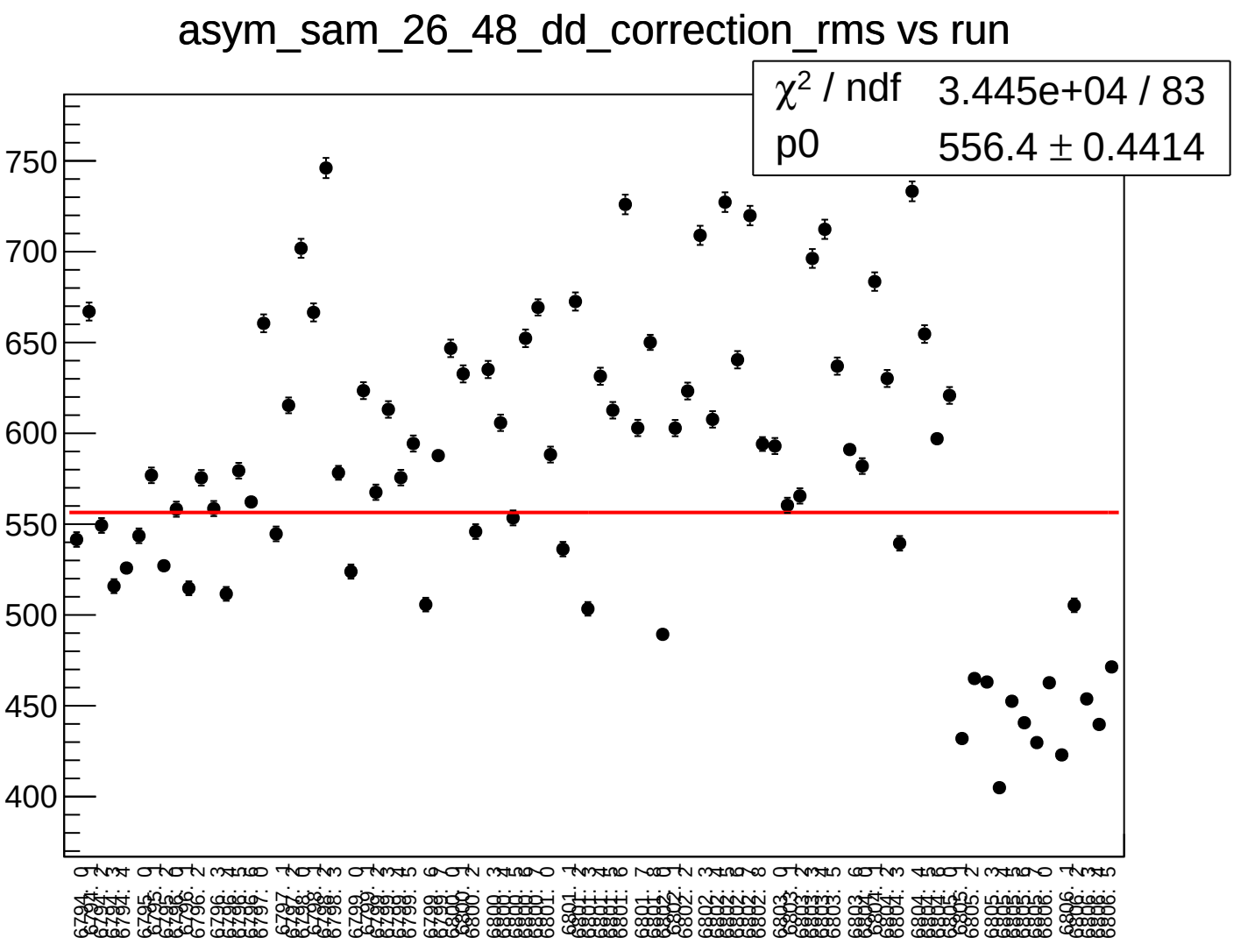

asym_sam_24_68_dd_rms vs run
χ² / ndf 7489 / 83
p0 1039 ± 0.8173
1250
1200
1150
1100
1050
1000
950
900

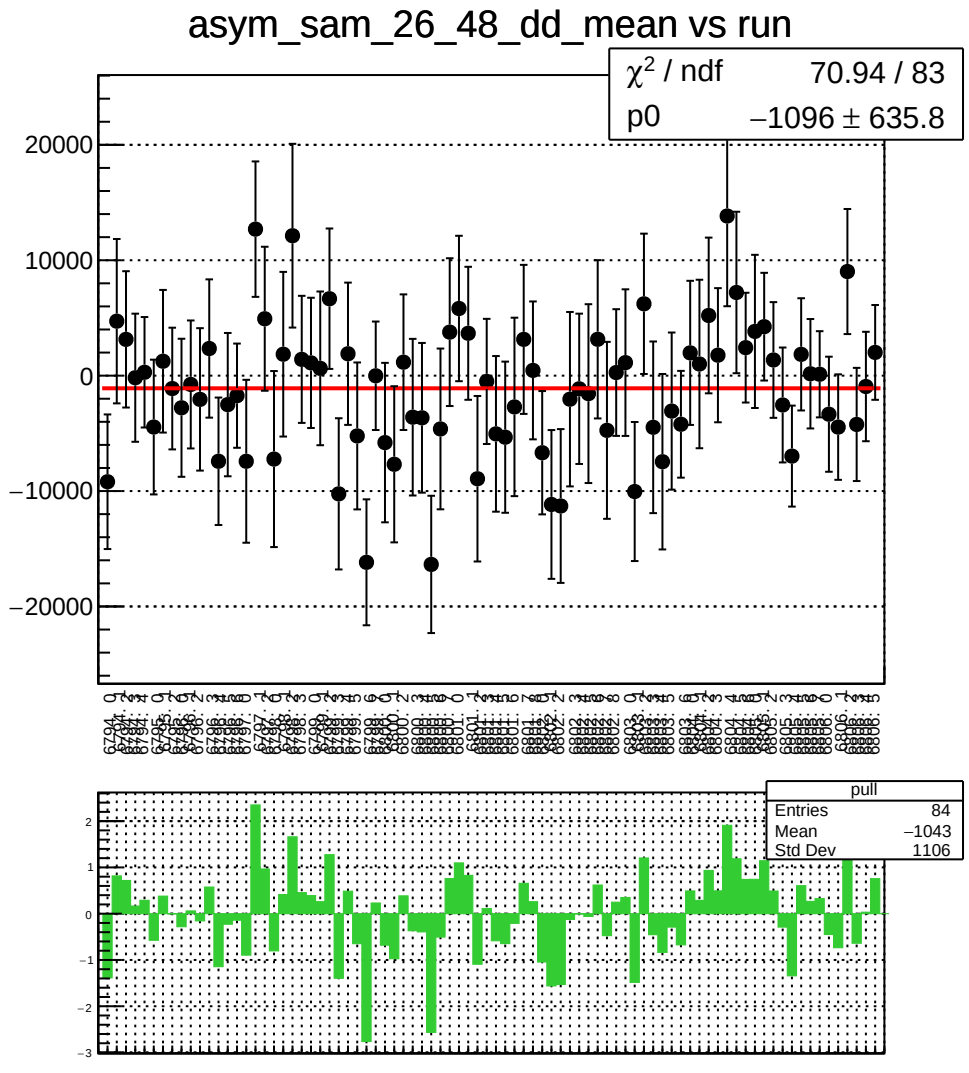

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 102.1 / 83
p0 −6.661 ± 117.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 1287
Std Dev 1251
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.003938
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

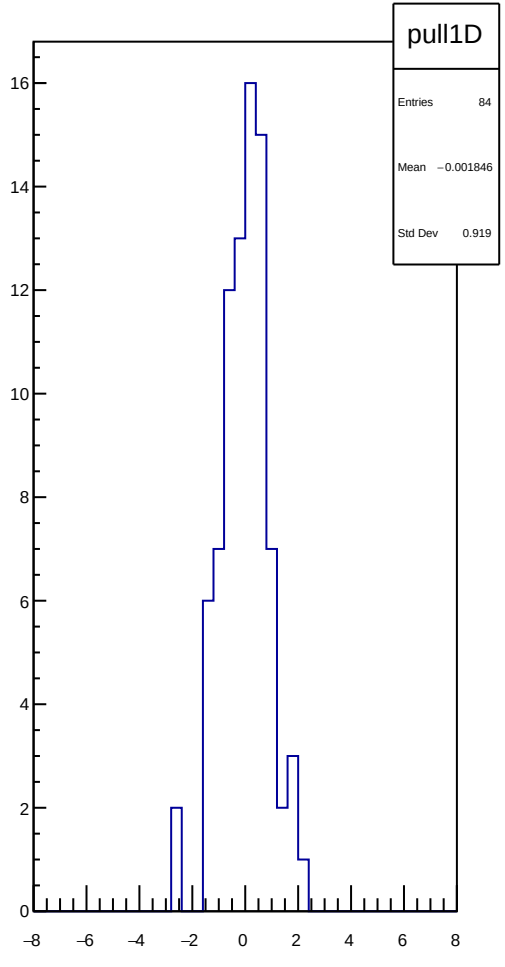

reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 9167 / 83
p0 105.8 ± 0.08326
180
160
140
120
100
80

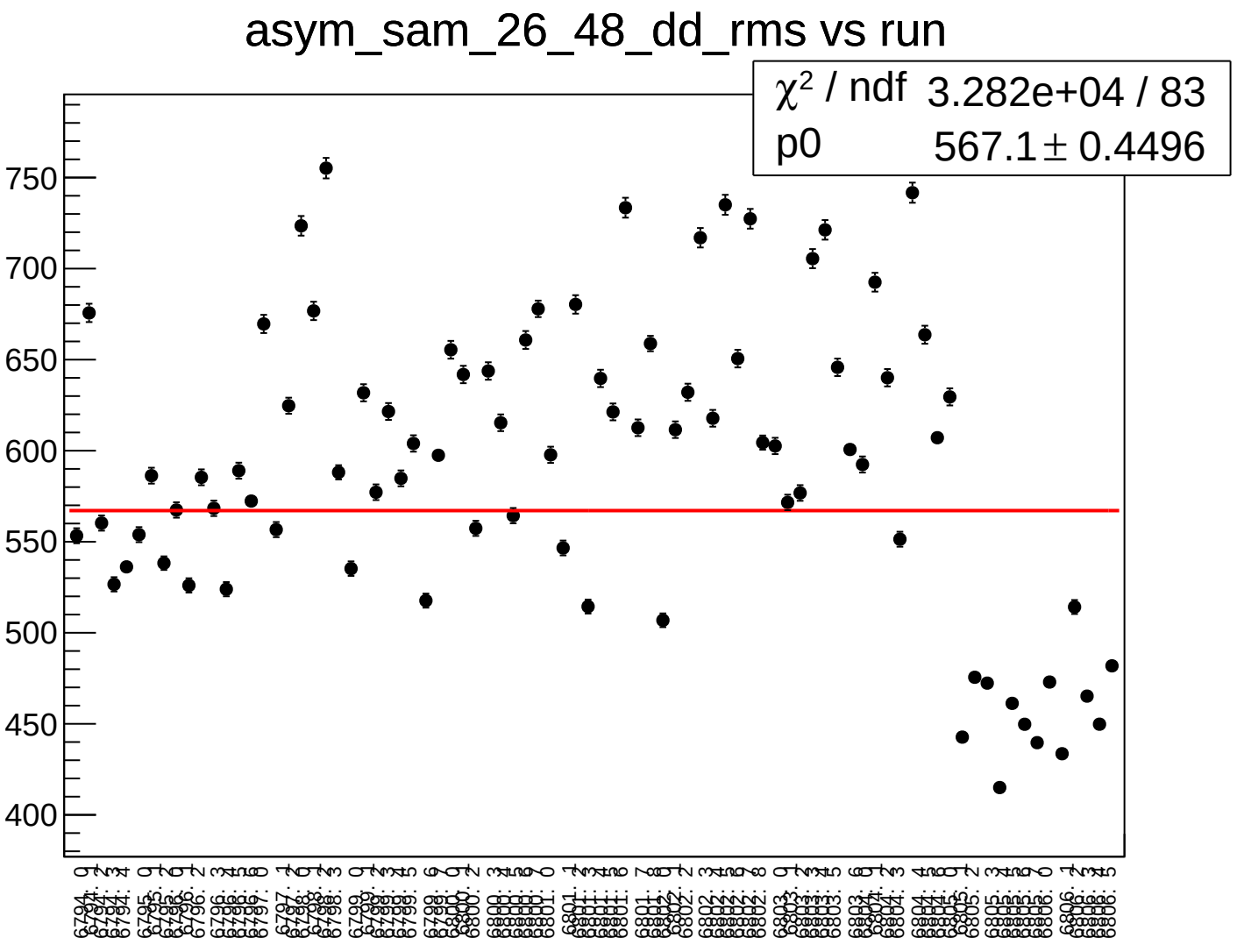

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 67.55 / 83
p0 1048 ± 624.2
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −163.5
Std Dev 242.4
3
2
1
0
−1
−2

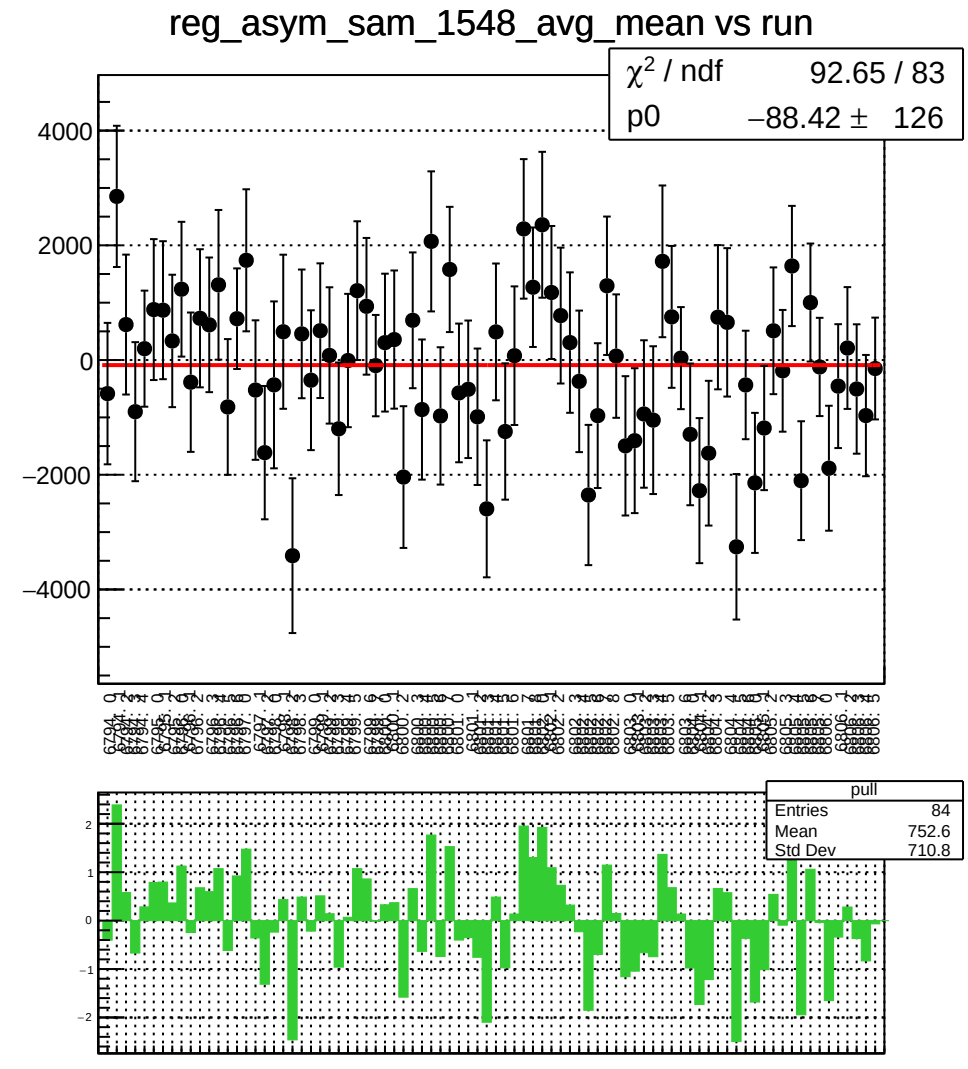

pull1D
Entries 84
Mean 0.005631
Std Dev 0.8968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

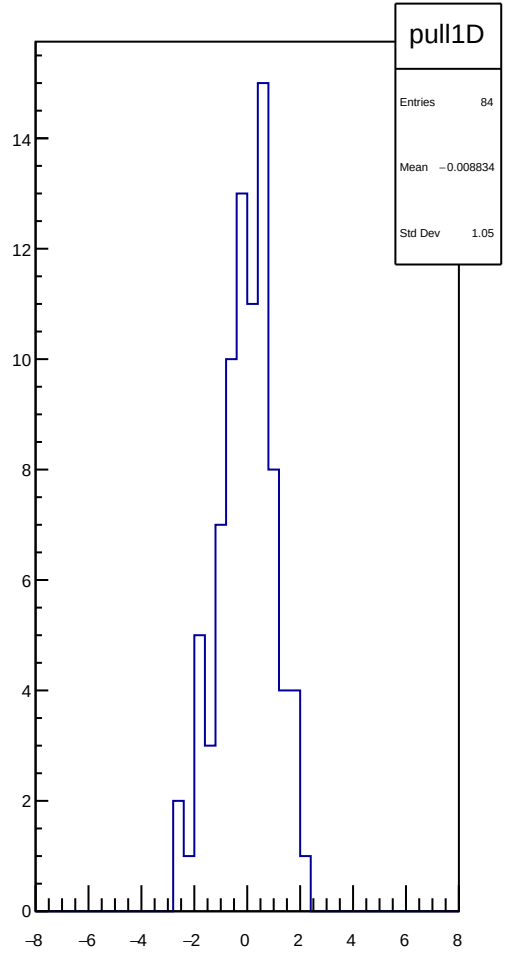

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 3.445e+04 / 83
p0 556.4 ± 0.4414
750
700
650
600
550
500
450
400

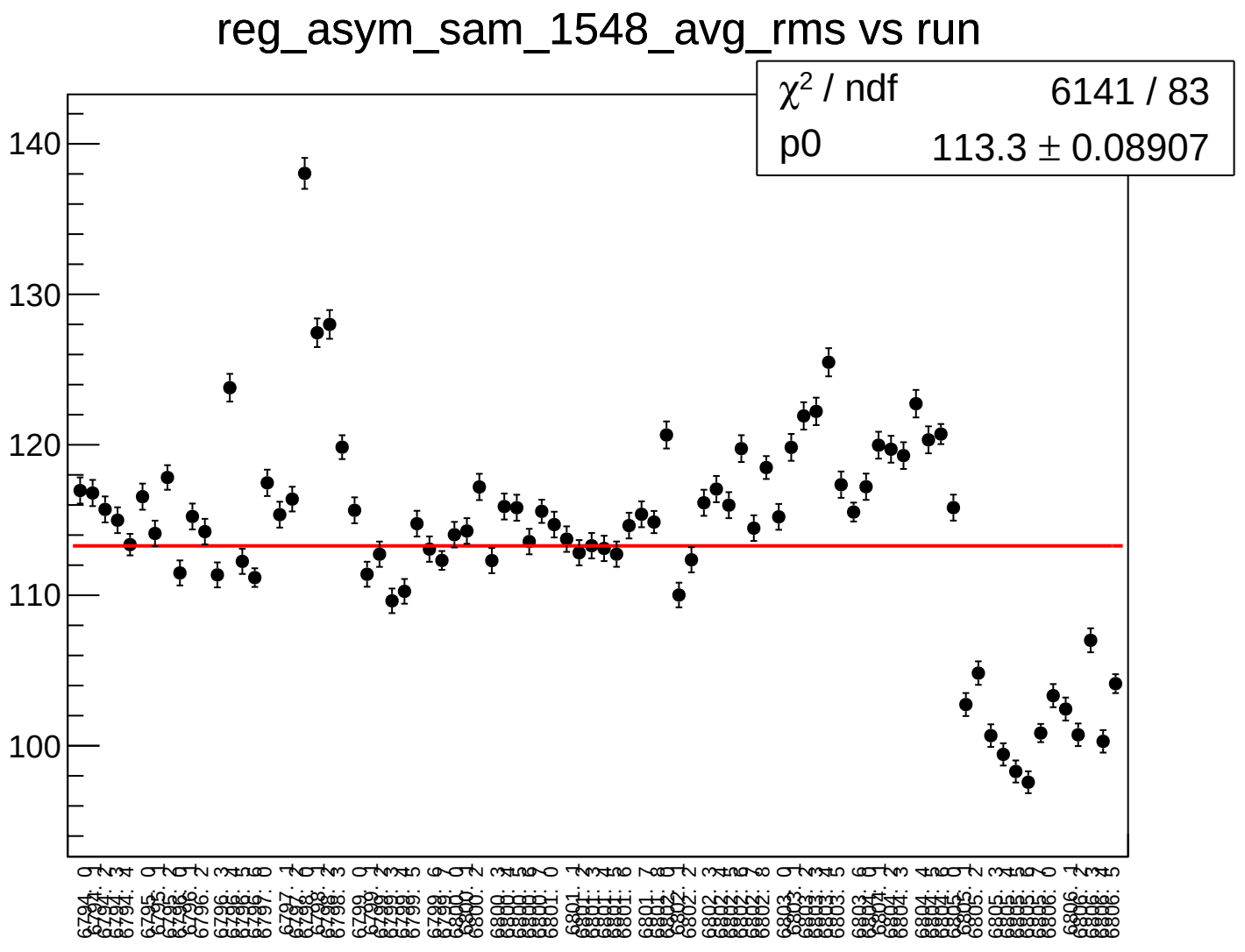

asym_sam_26_48_dd_mean vs run
χ² / ndf 70.94 / 83
p0 −1096 ± 635.8
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −1043
Std Dev 1106
2
1
0
−1
−2
−3

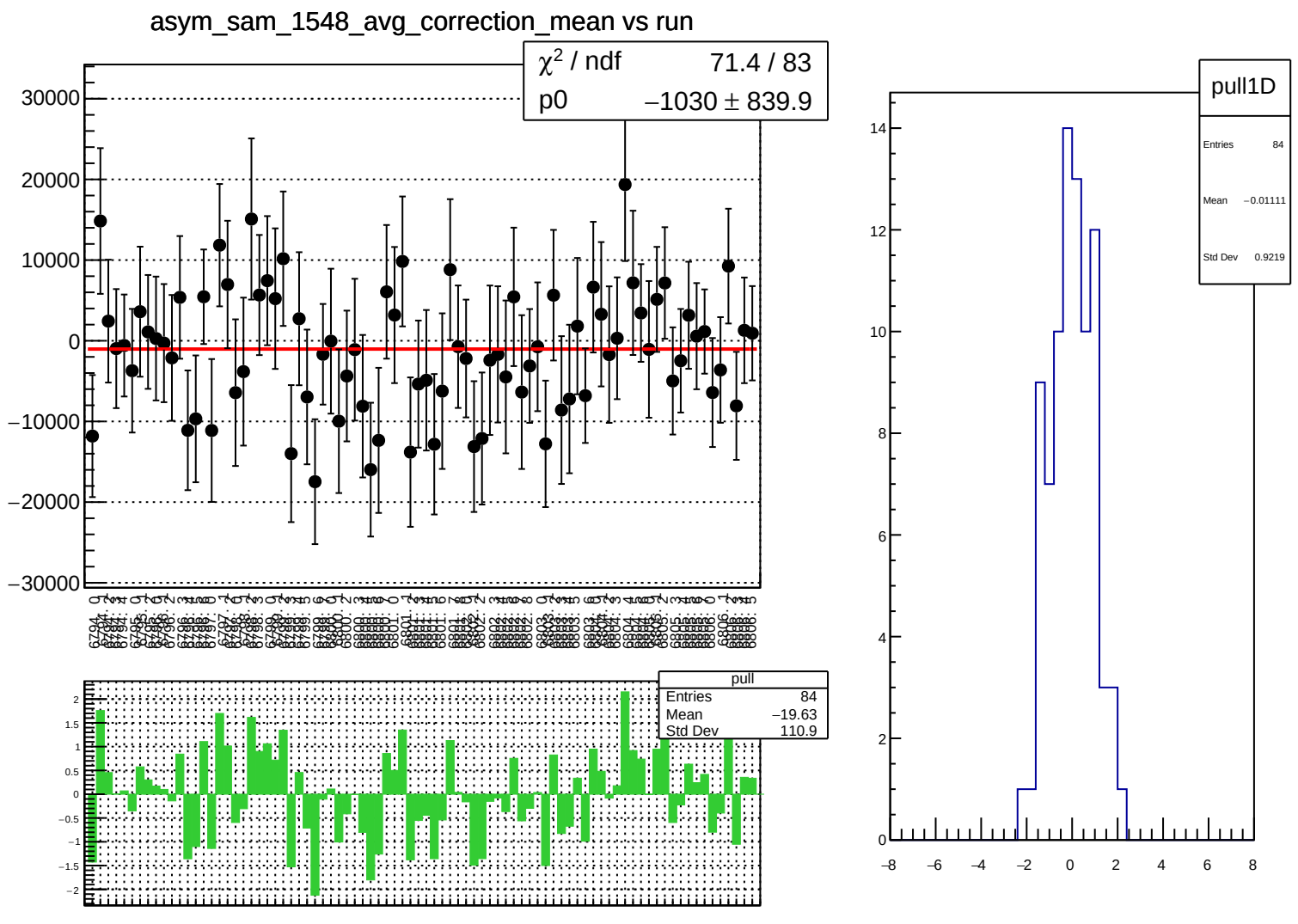

pull1D
Entries 84
Mean −0.001846
Std Dev 0.919
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

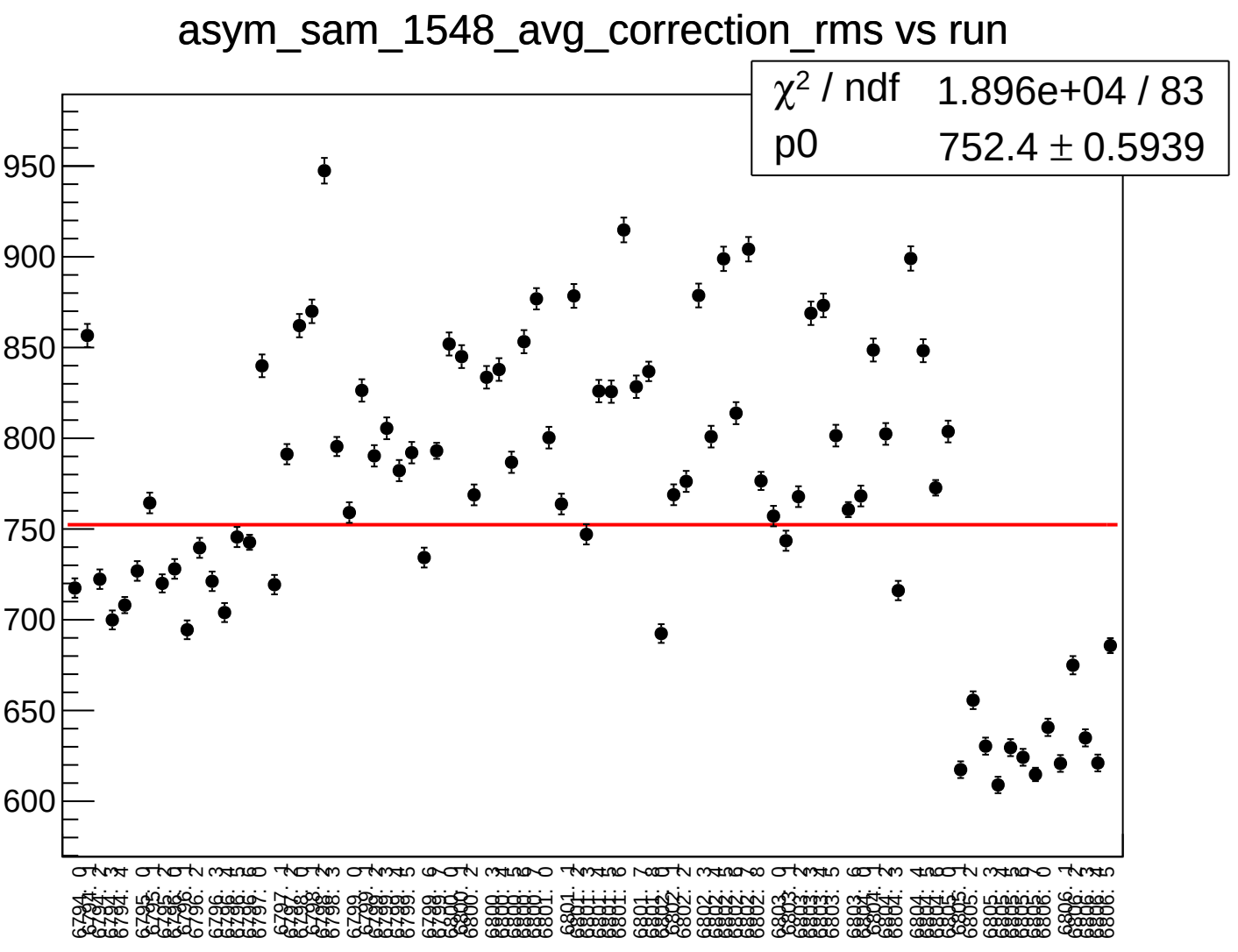

asym_sam_26_48_dd_rms vs run
χ² / ndf 3.282e+04 / 83
p0 567.1 ± 0.4496
750
700
650
600
550
500
450
400

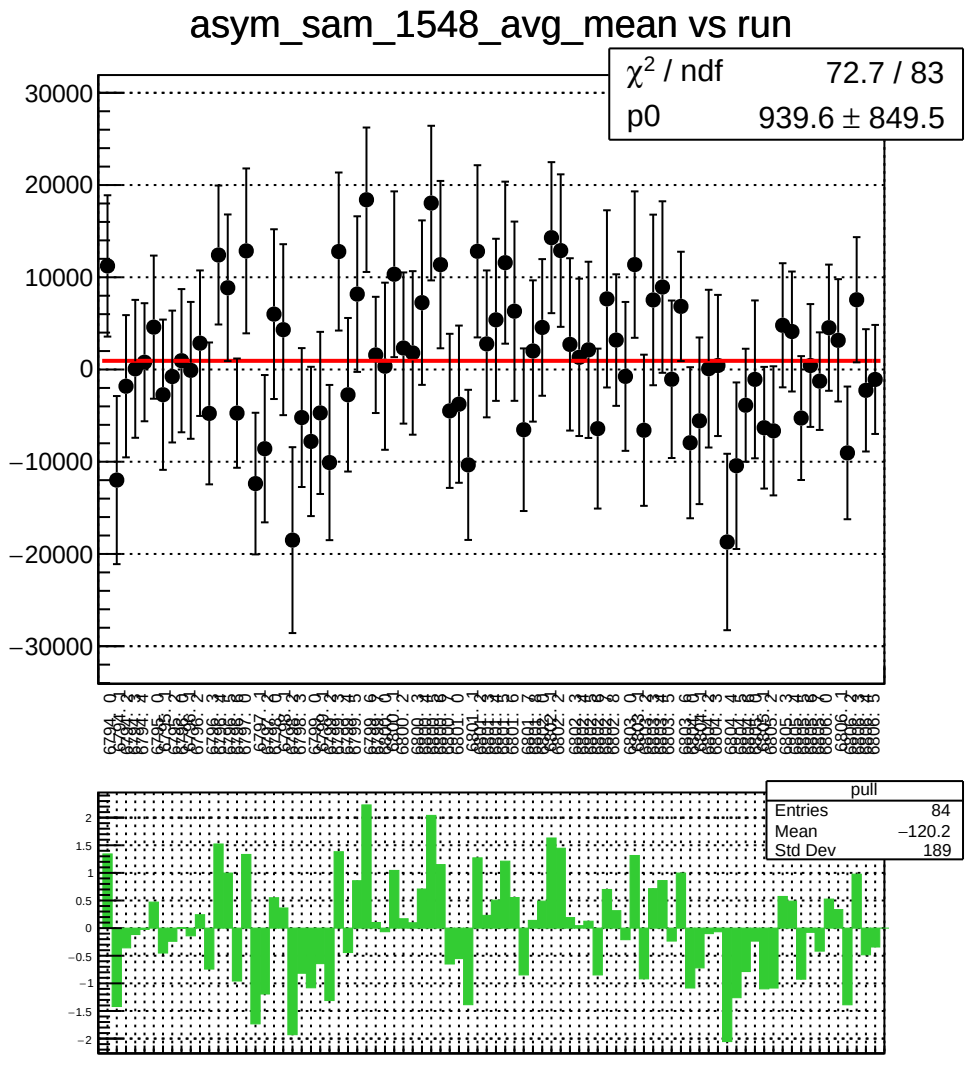

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 92.65 / 83
p0 −88.42 ± 126
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 752.6
Std Dev 710.8
2
1
0
−1
−2

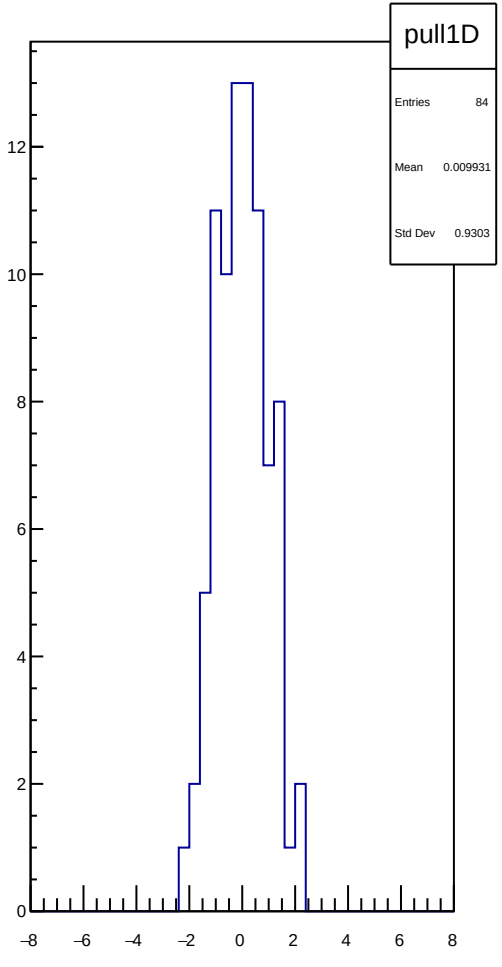

pull1D
Entries 84
Mean −0.008834
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

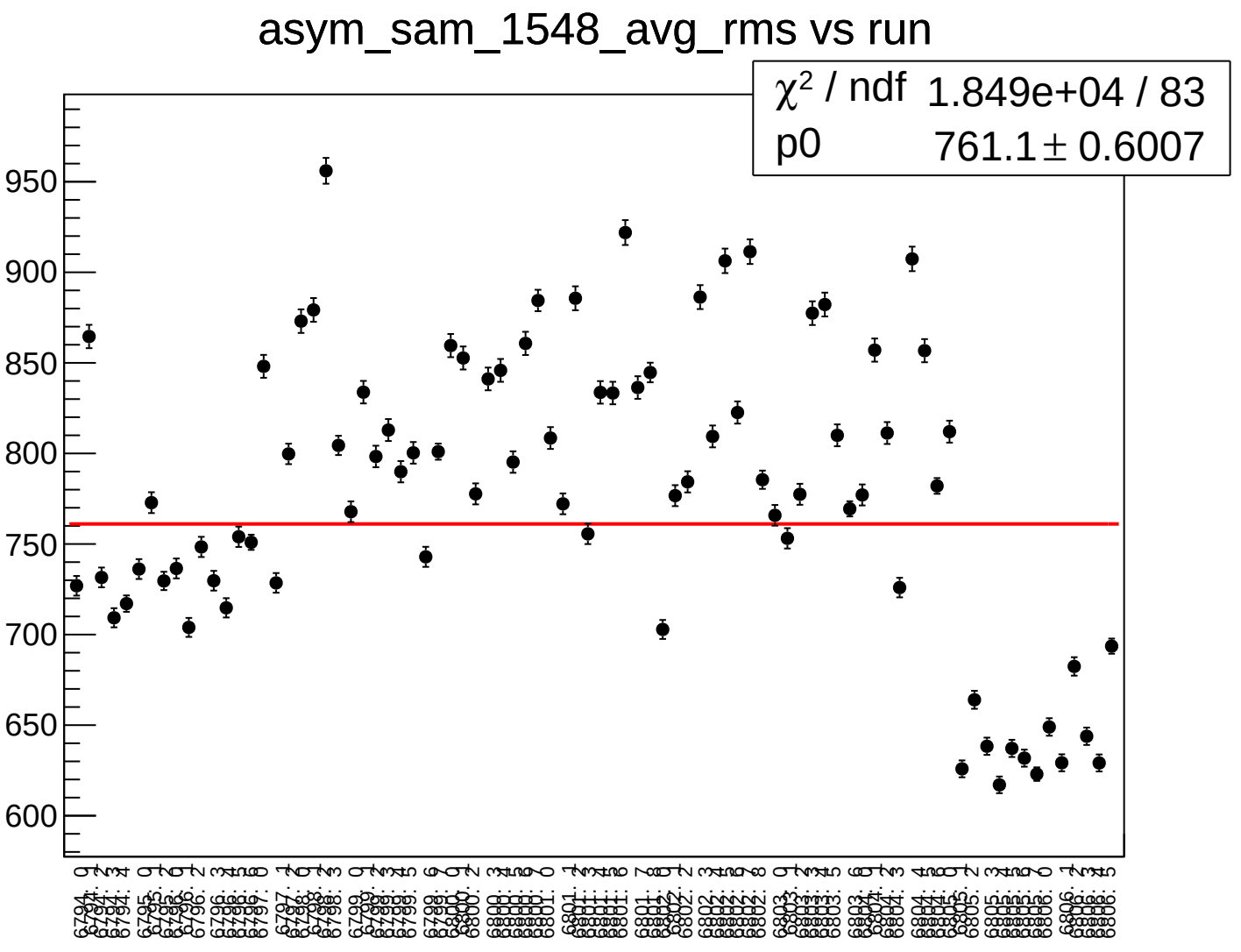

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 6141 / 83
p0 113.3 ± 0.08907
140
130
120
110
100

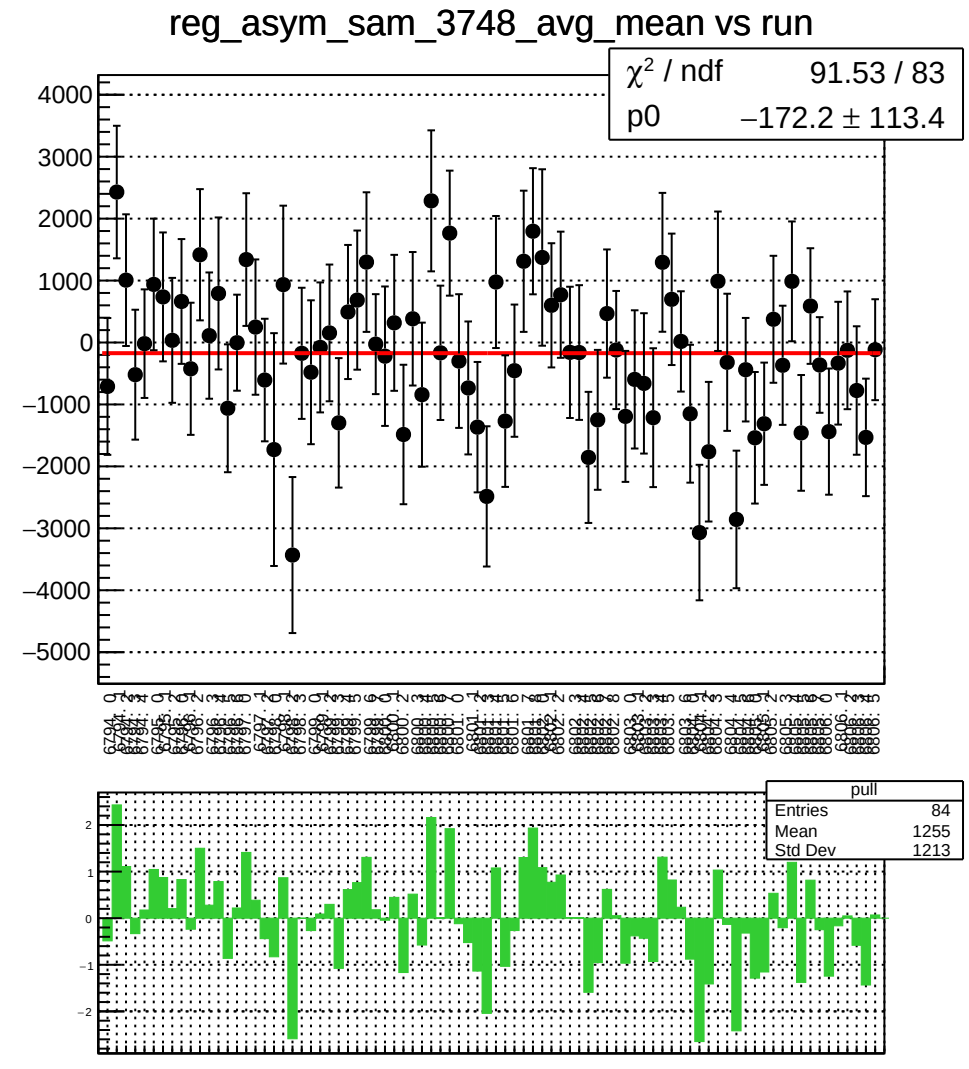

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 71.4 / 83
p0 −1030 ± 839.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −19.63
Std Dev 110.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.01111
Std Dev 0.9219
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

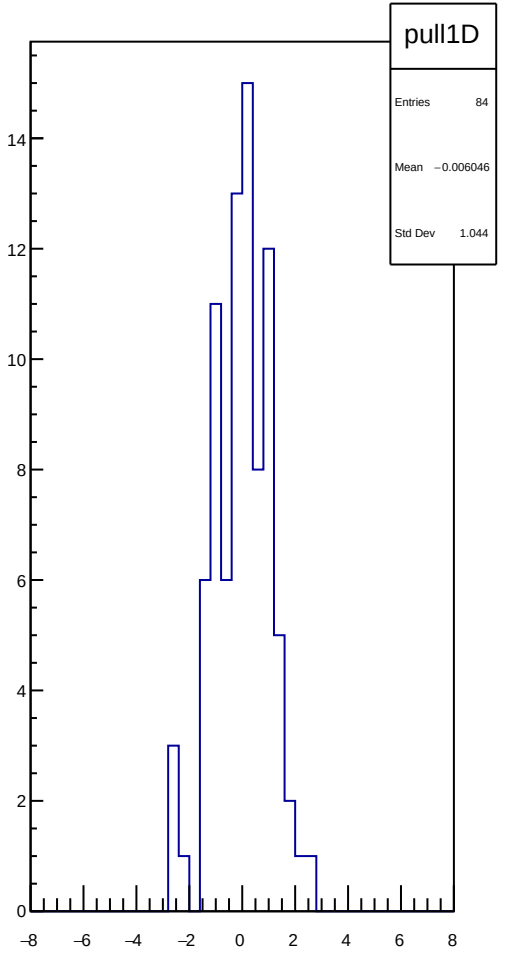

asym_sam_1548_avg_correction_rms vs run
χ^2 / ndf 1.896e+04 / 83
p0 752.4 ± 0.5939
950
900
850
800
750
700
650
600

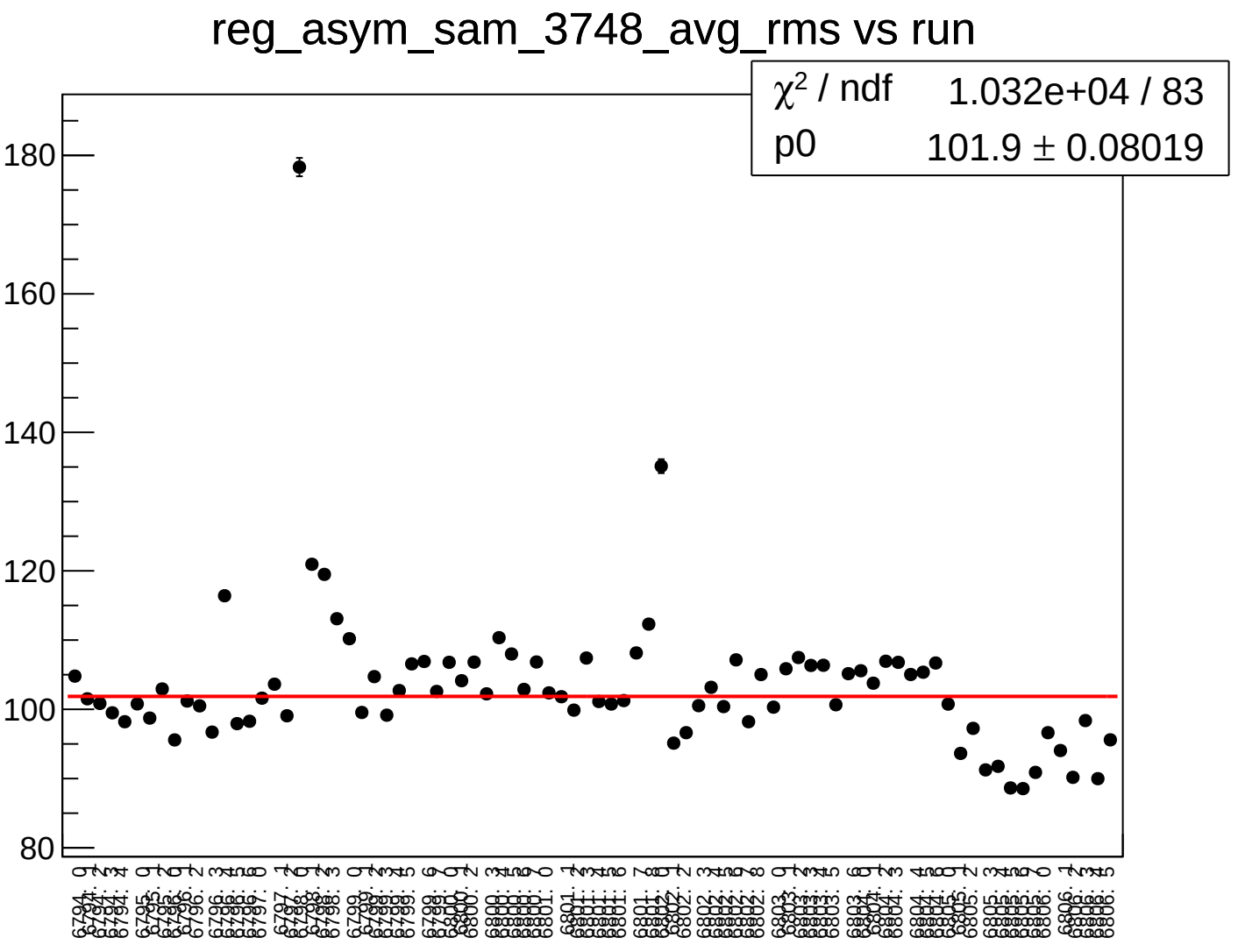

asym_sam_1548_avg_mean vs run
χ² / ndf 72.7 / 83
p0 939.6 ± 849.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −120.2
Std Dev 189
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

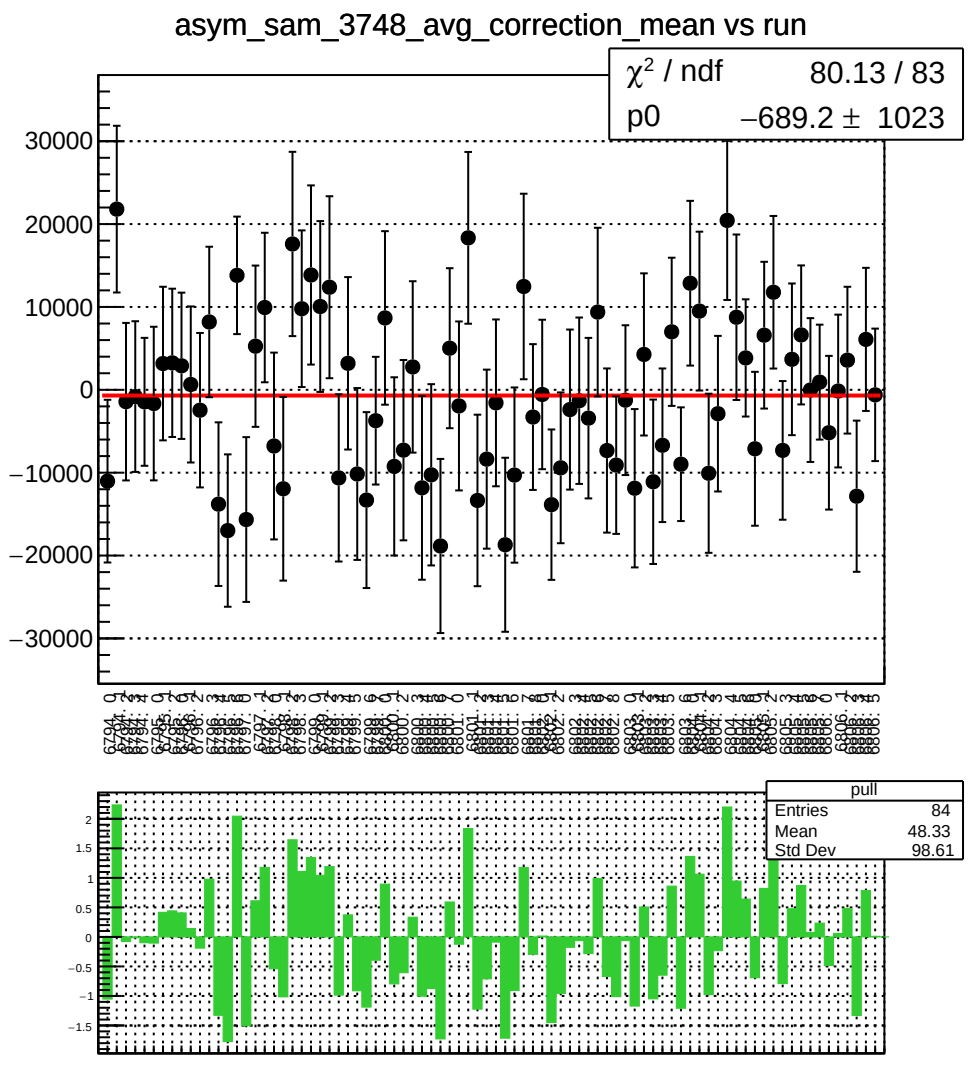

pull1D
Entries 84
Mean 0.009931
Std Dev 0.9303
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

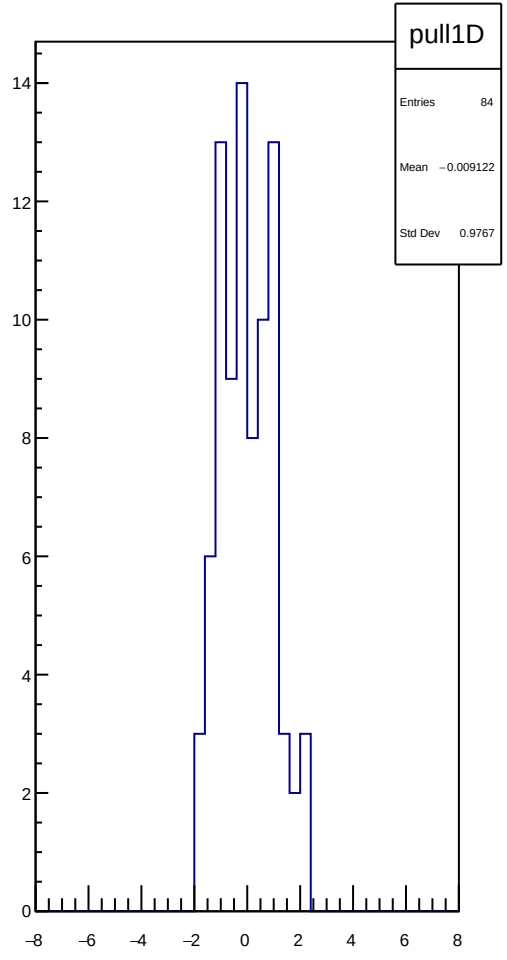

asym_sam_1548_avg_rms vs run
χ² / ndf 1.849e+04 / 83
p0 761.1 ± 0.6007
950
900
850
800
750
700
650
600

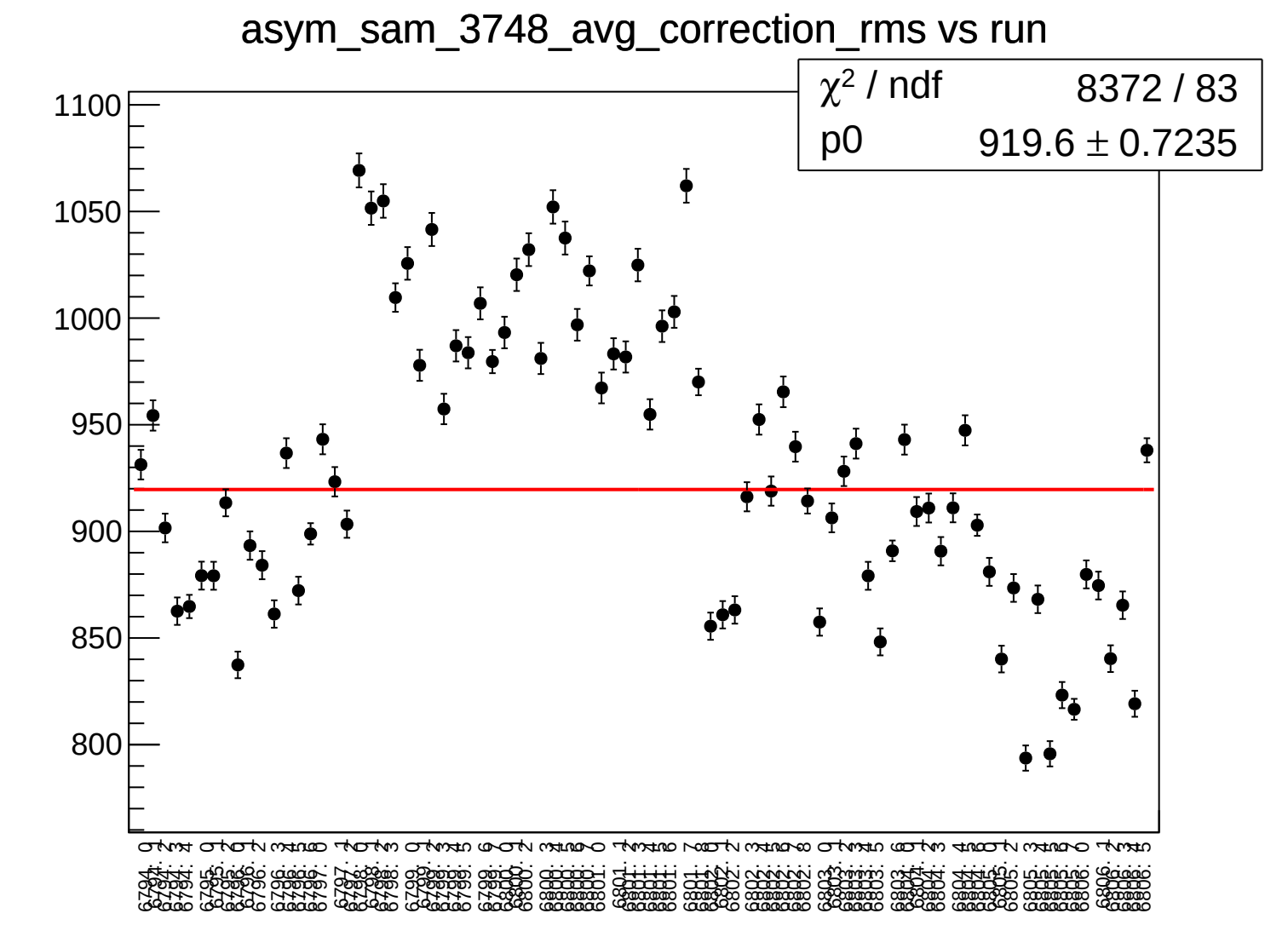

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 91.53 / 83
p0 −172.2 ± 113.4
pull
Entries 84
Mean 1255
Std Dev 1213

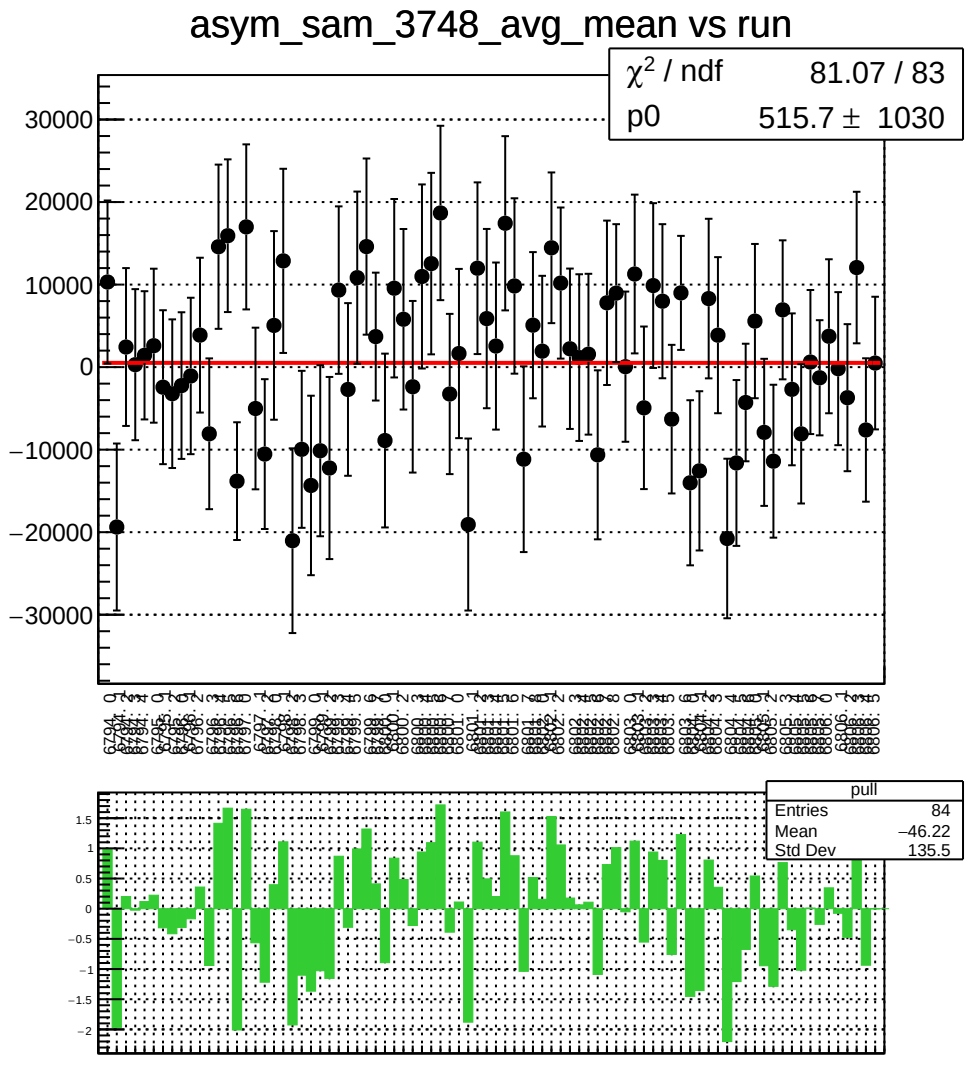

pull1D
Entries 84
Mean −0.006046
Std Dev 1.044

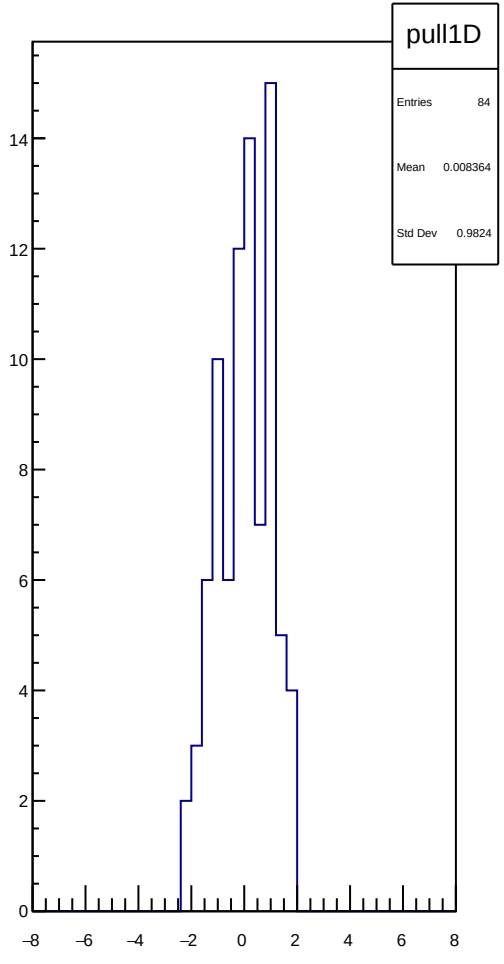

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.032e+04 / 83
p0 101.9 ± 0.08019
180
160
140
120
100
80

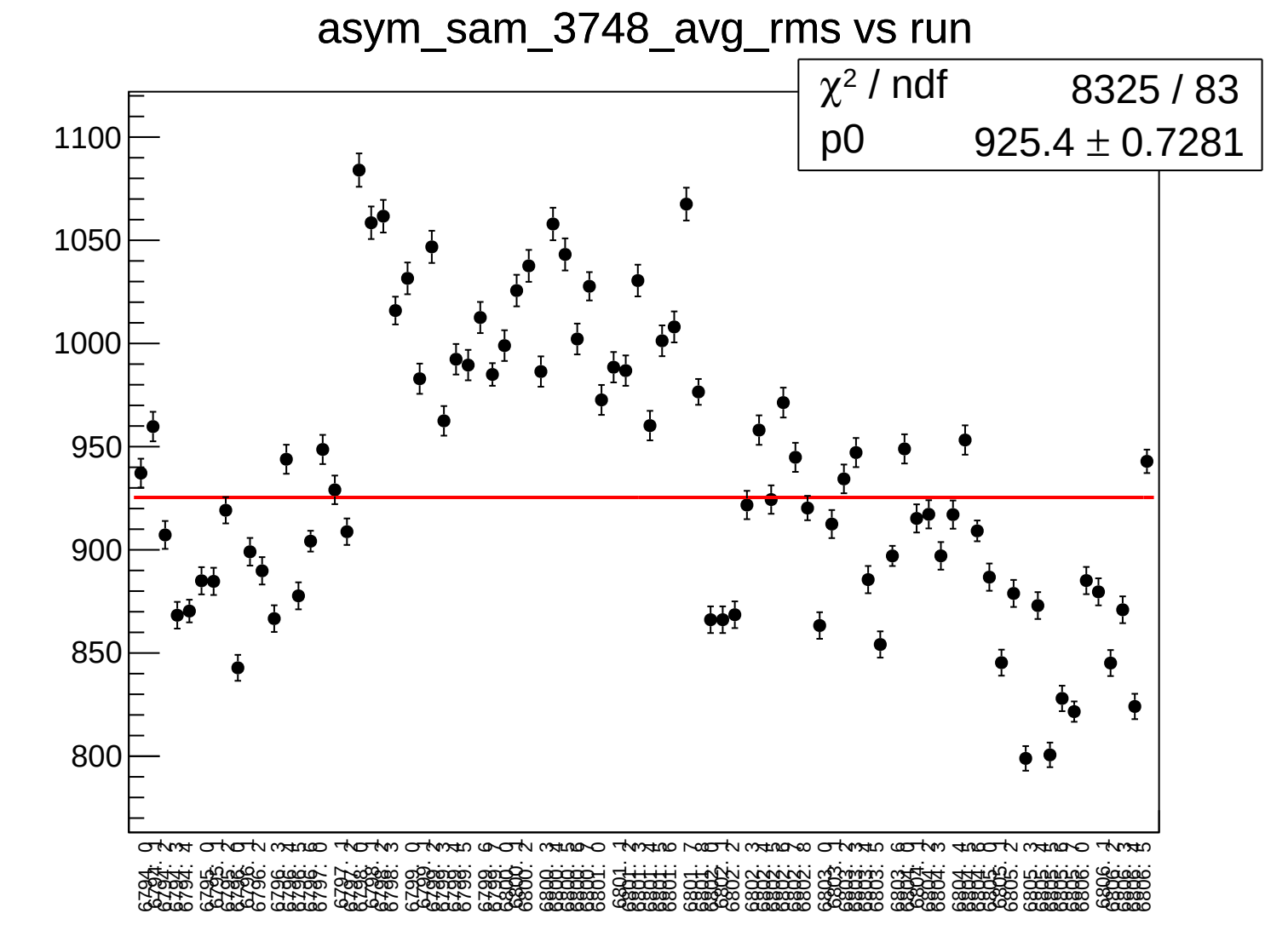

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 80.13 / 83
p0 −689.2 ± 1023
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 48.33
Std Dev 98.61
2
1.5
1
0.5
0
−0.5
−1
−1.5

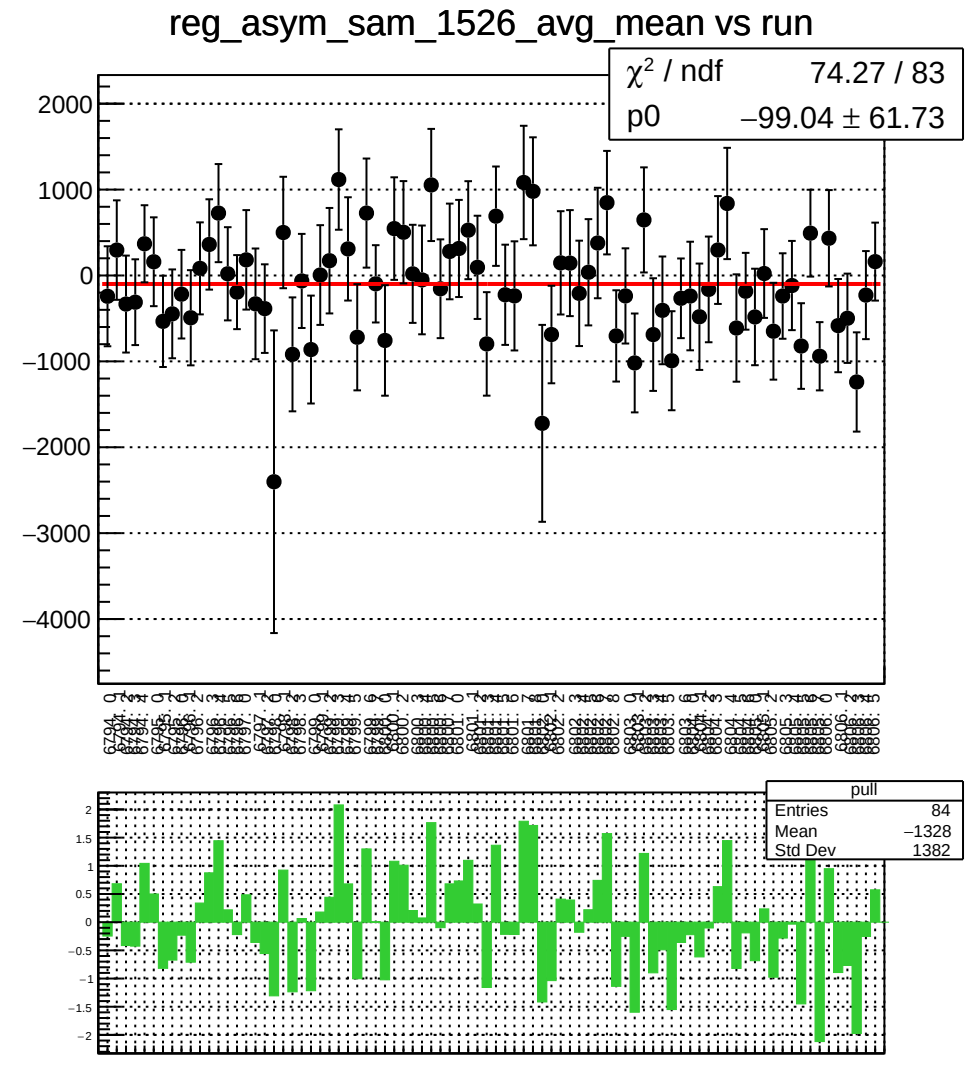

pull1D
Entries 84
Mean −0.009122
Std Dev 0.9767
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

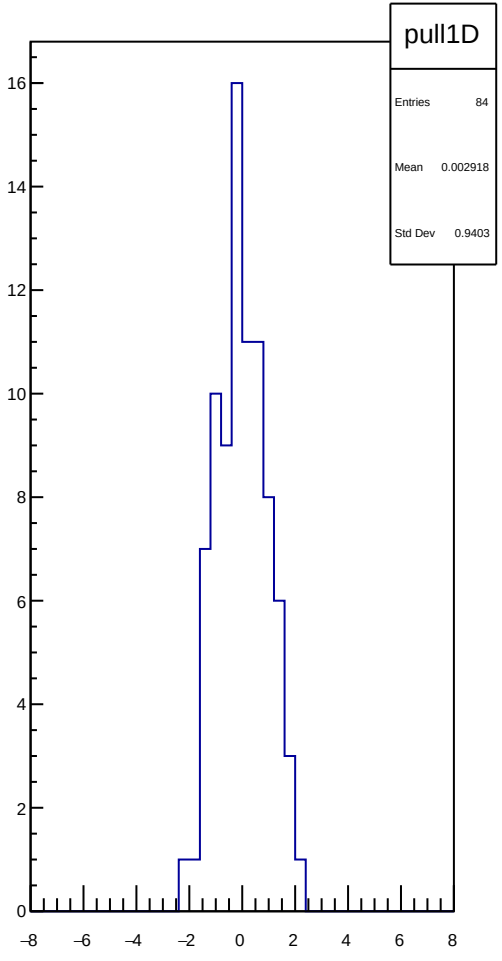

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 8372 / 83
p0 919.6 ± 0.7235
1100
1050
1000
950
900
850
800

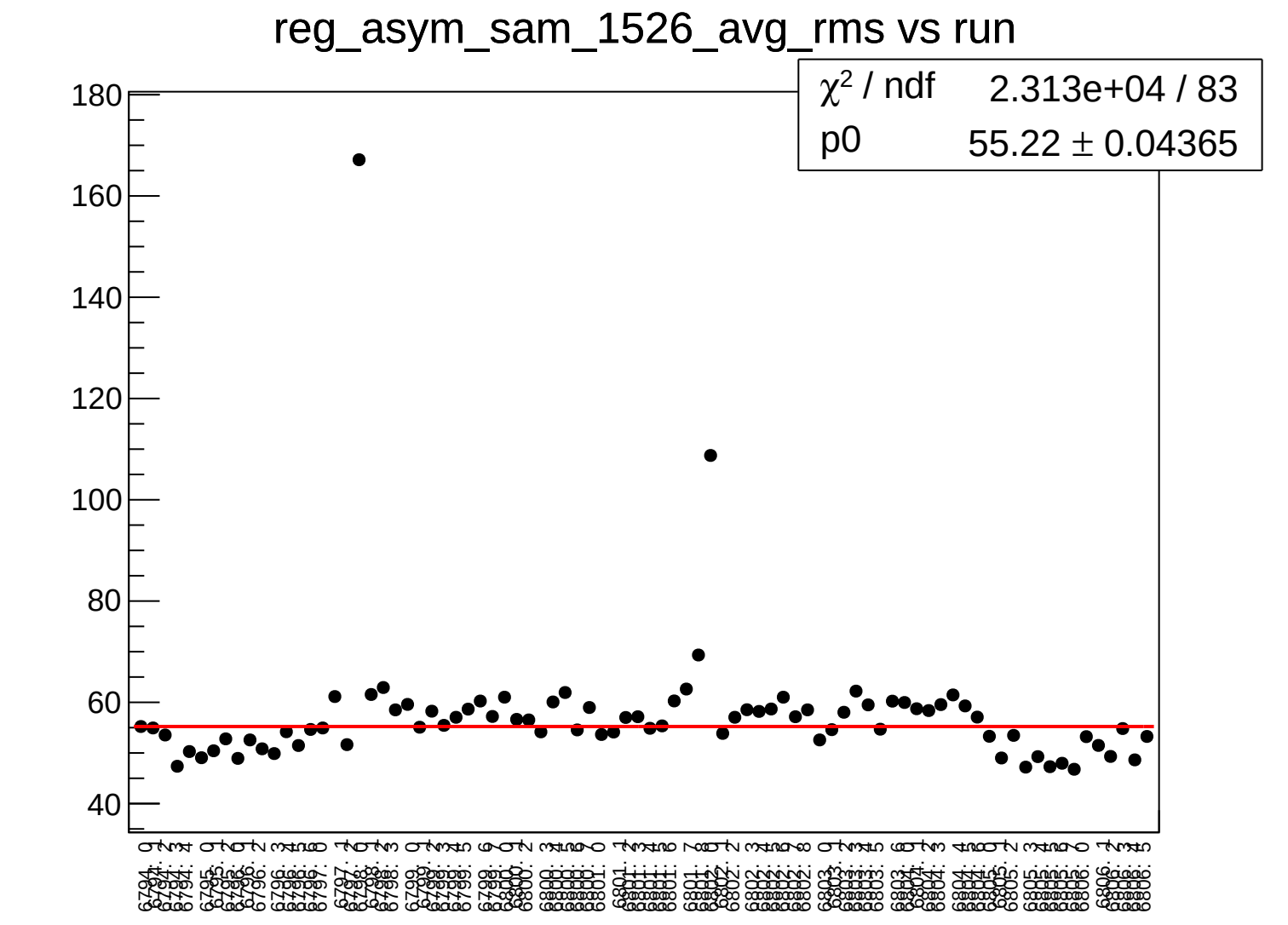

asym_sam_3748_avg_mean vs run
χ² / ndf 81.07 / 83
p0 515.7 ± 1030
pull
Entries 84
Mean −46.22
Std Dev 135.5

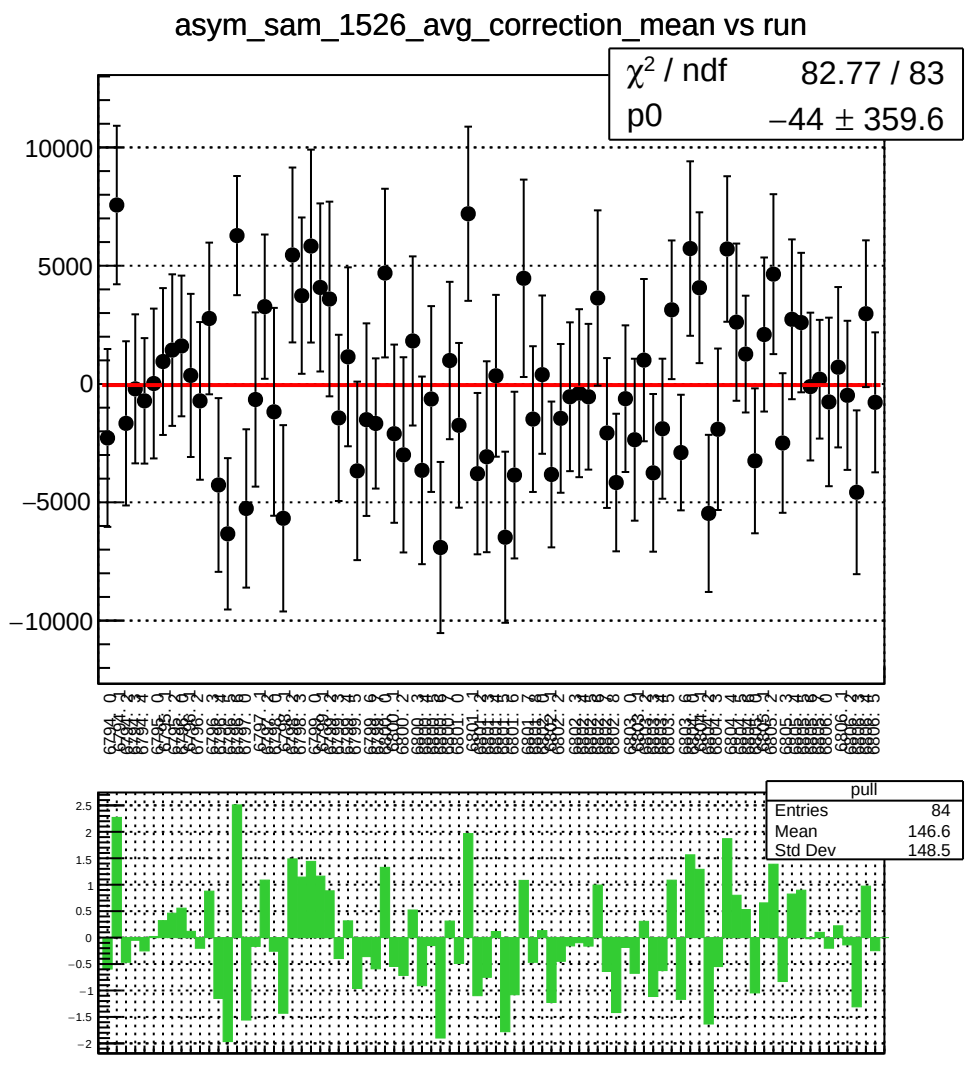

pull1D
Entries 84
Mean 0.008364
Std Dev 0.9824

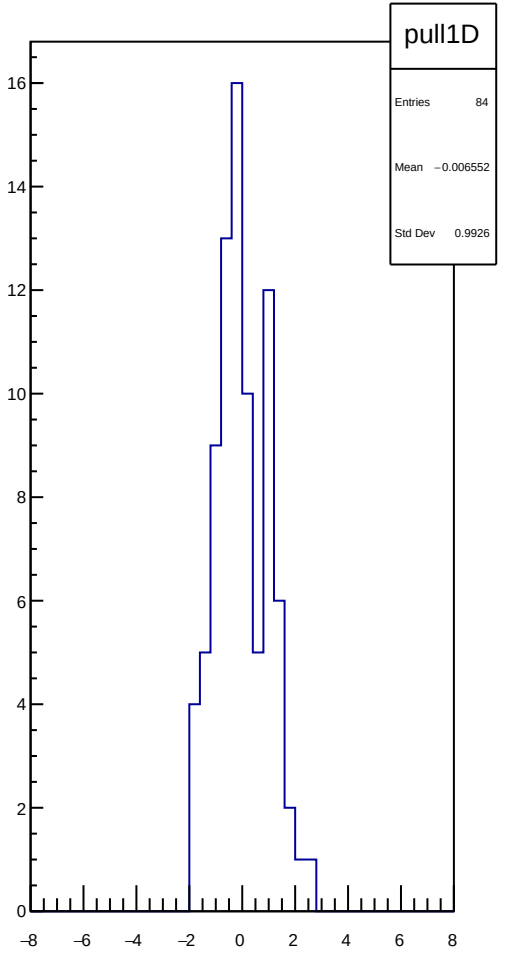

asym_sam_3748_avg_rms vs run
χ² / ndf 8325 / 83
p0 925.4 ± 0.7281
1100
1050
1000
950
900
850
800

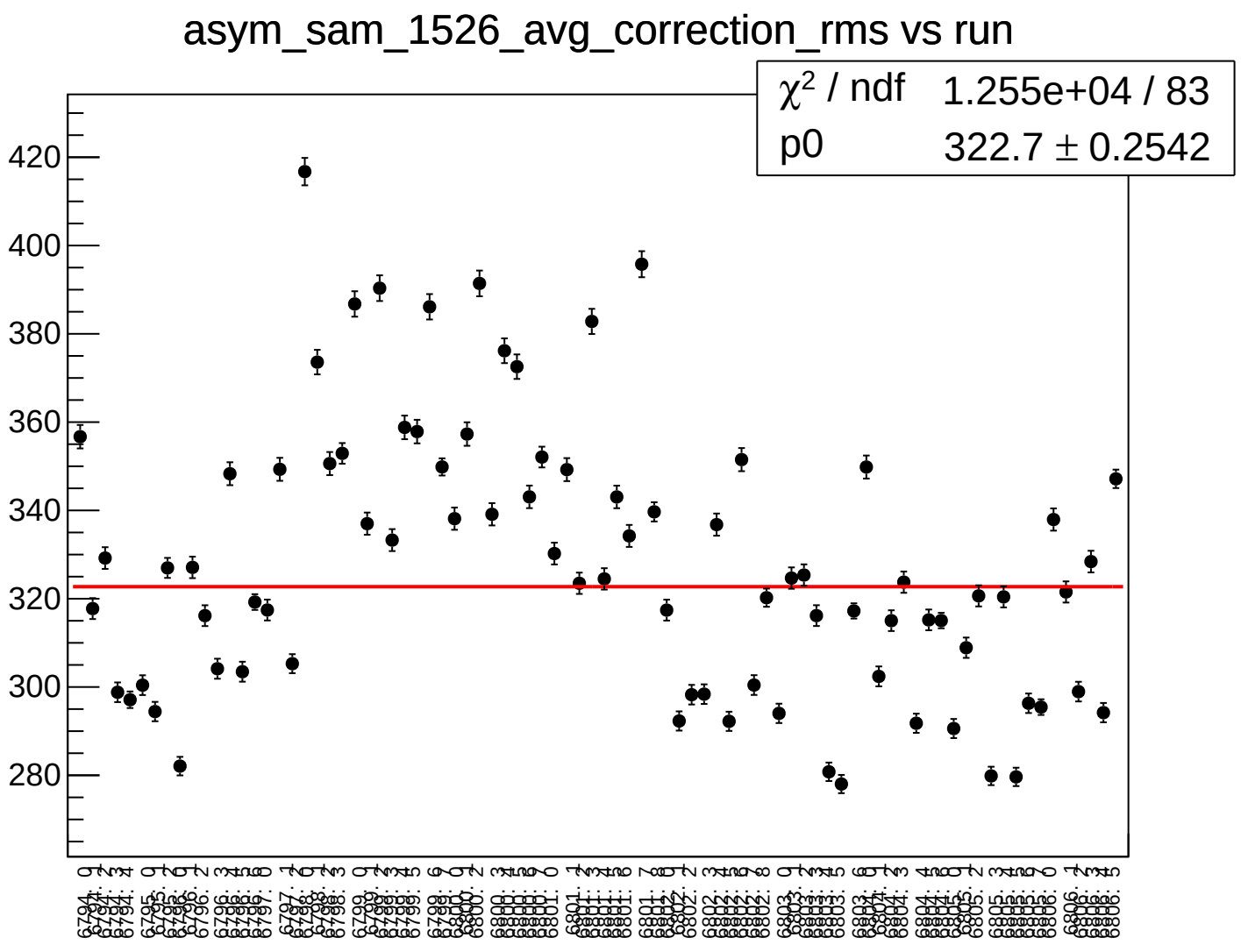

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 74.27 / 83
p0 −99.04 ± 61.73
pull
Entries 84
Mean −1328
Std Dev 1382

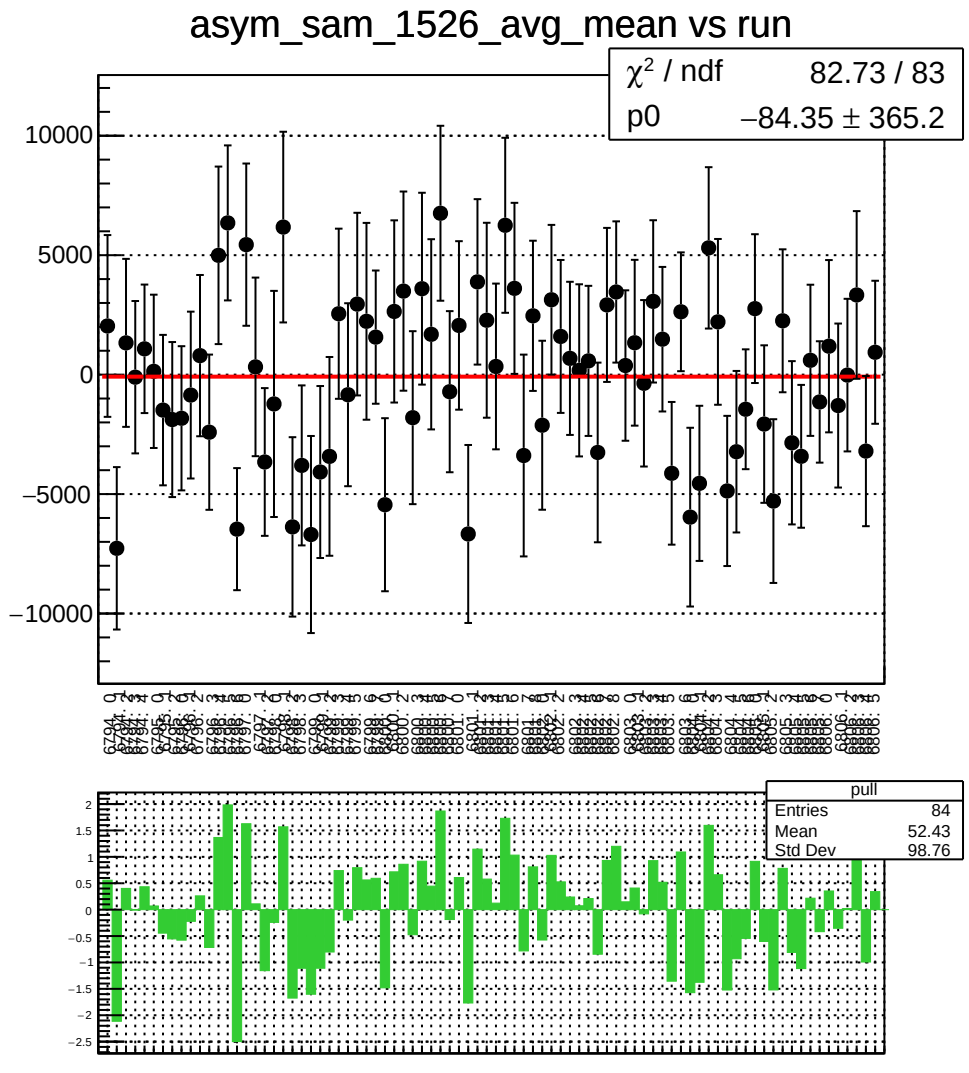

pull1D
Entries 84
Mean 0.002918
Std Dev 0.9403

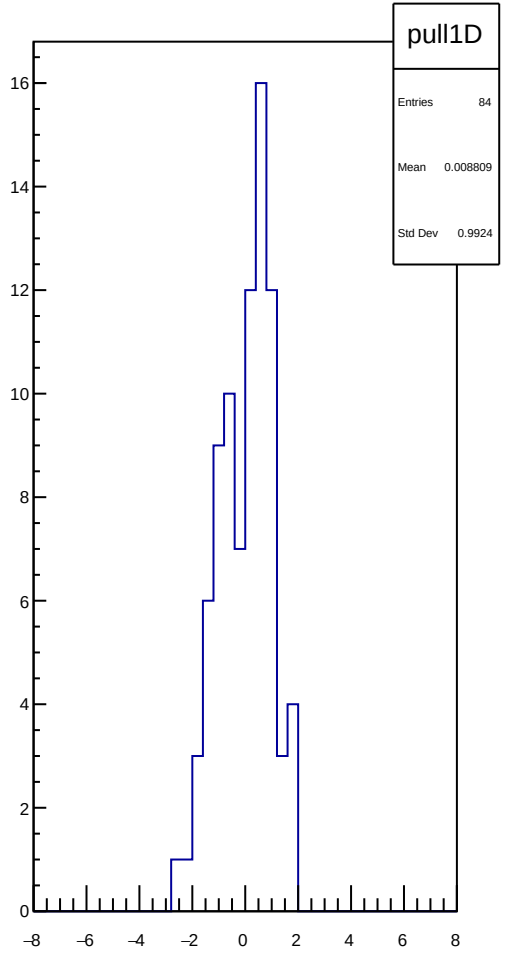

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.313e+04 / 83
p0 55.22 ± 0.04365
180
160
140
120
100
80
60
40

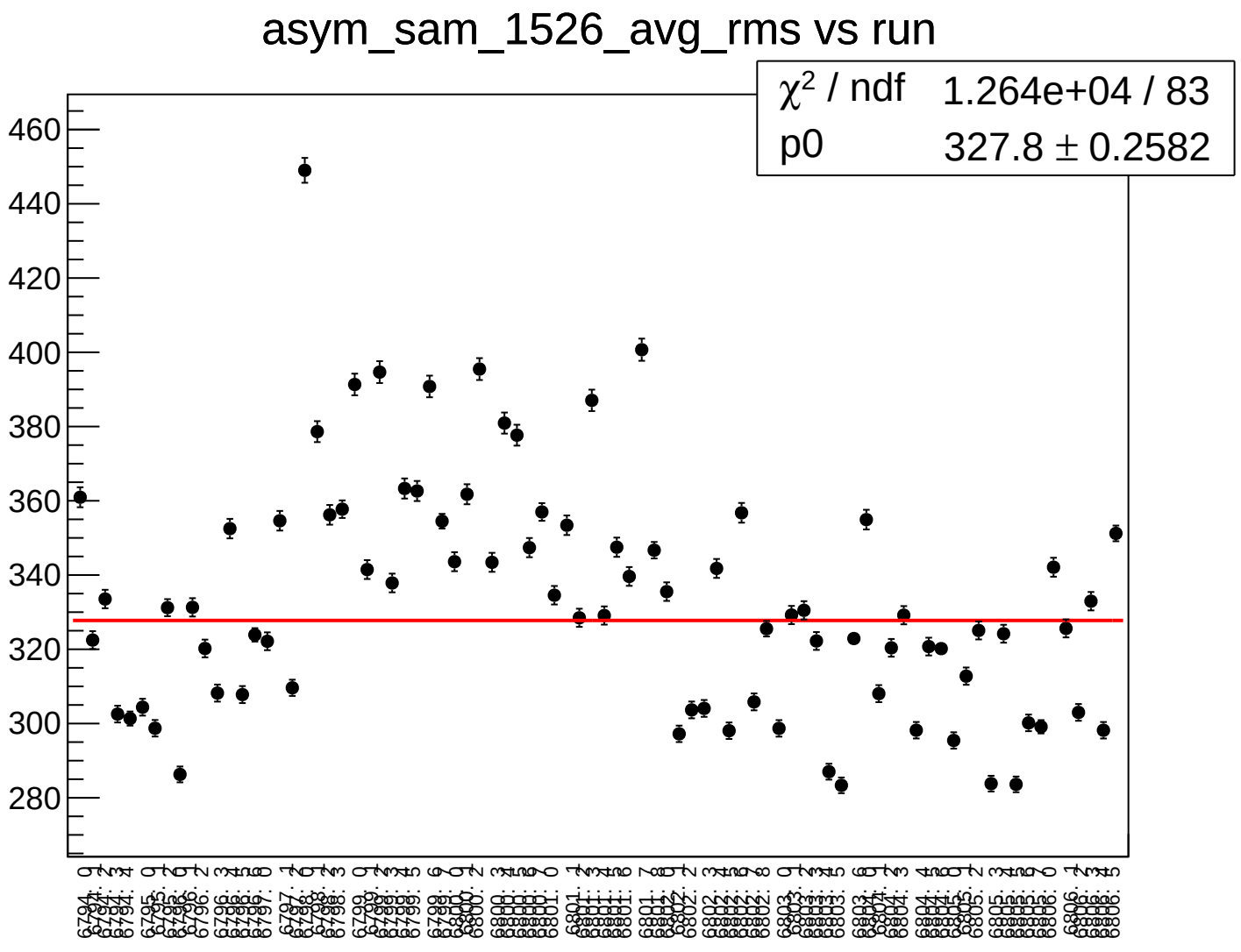

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 82.77 / 83
p0 −44 ± 359.6
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 146.6
Std Dev 148.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

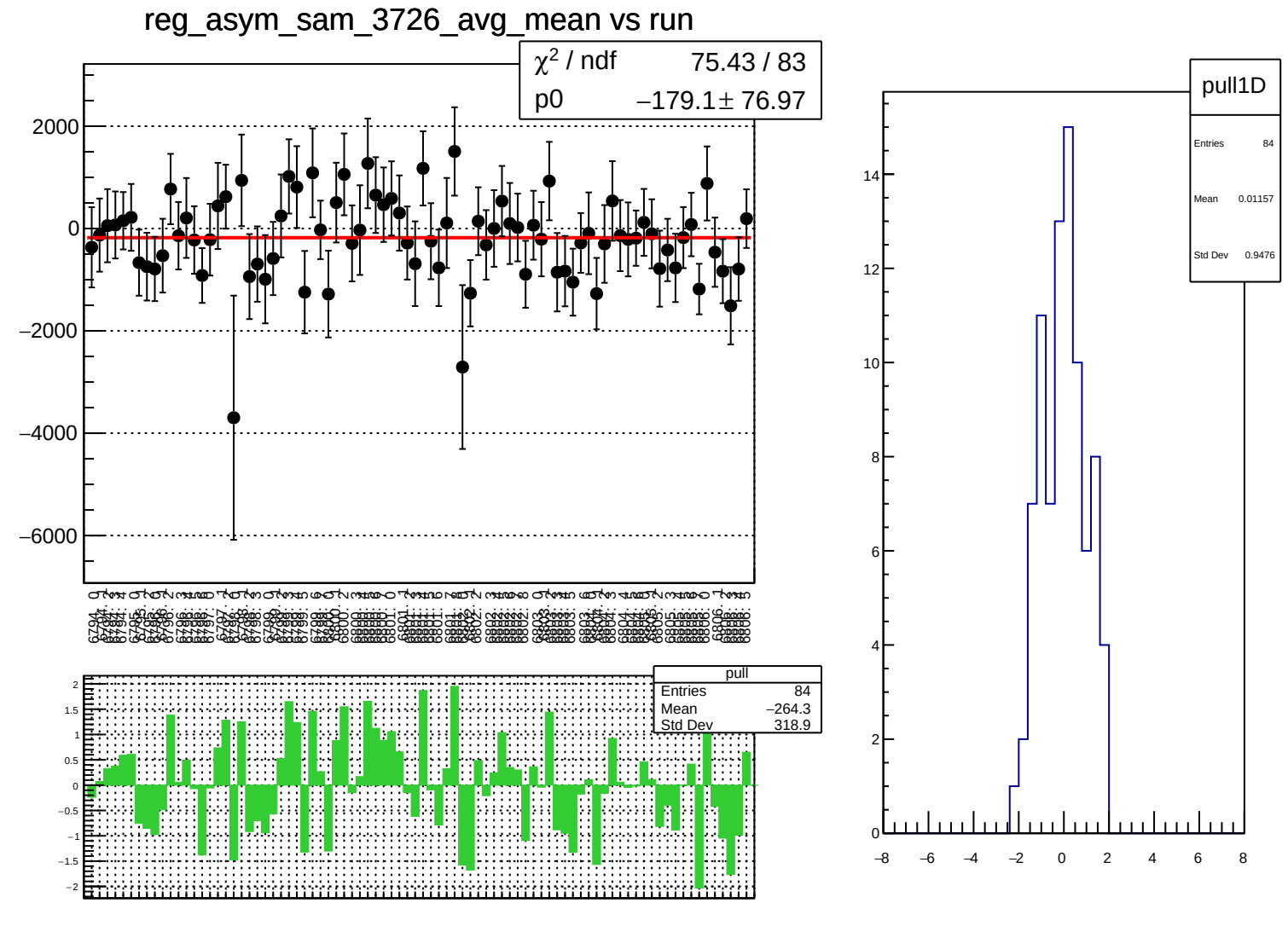

pull1D
Entries 84
Mean −0.006552
Std Dev 0.9926
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

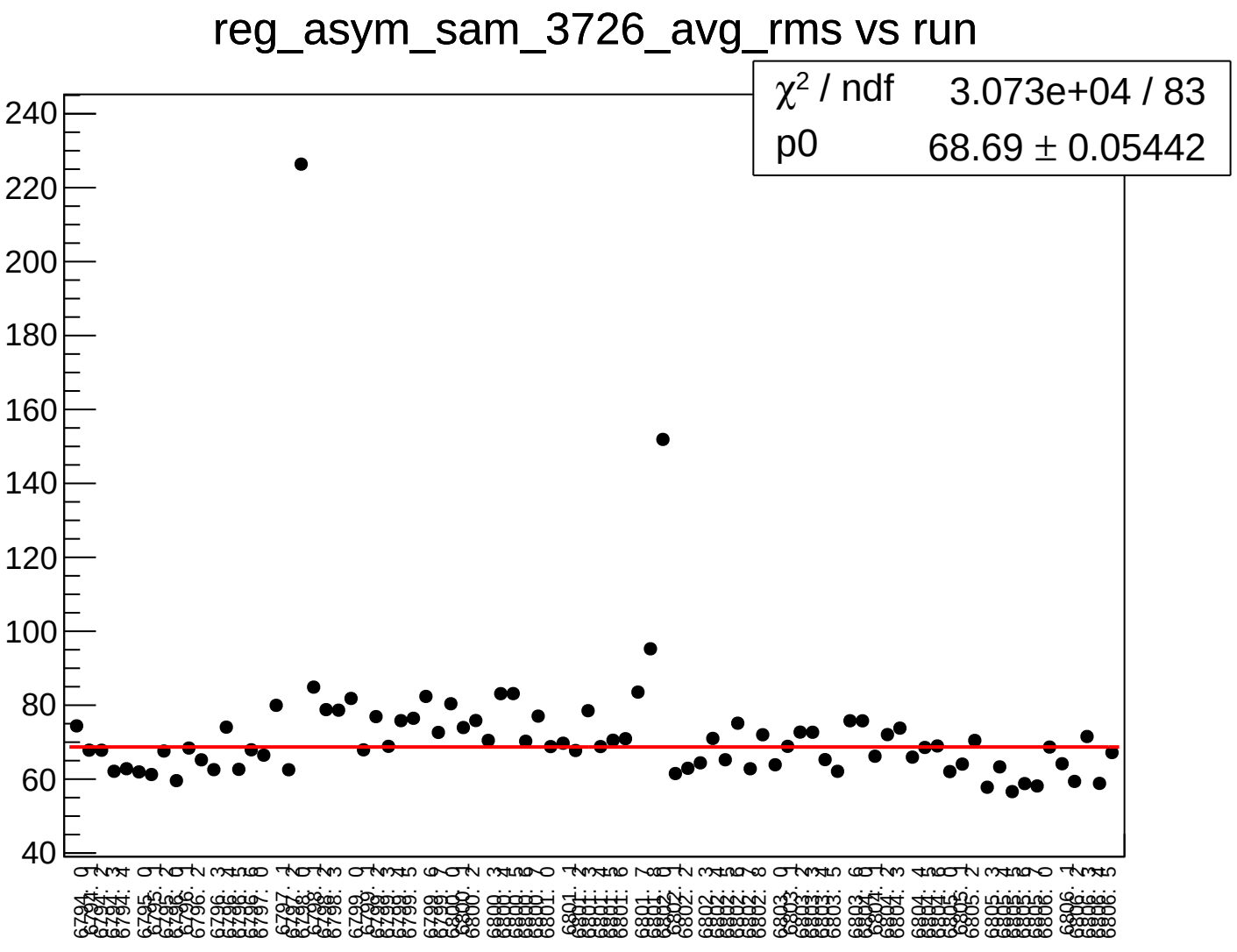

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 1.255e+04 / 83
p0 322.7 ± 0.2542
420
400
380
360
340
320
300
280

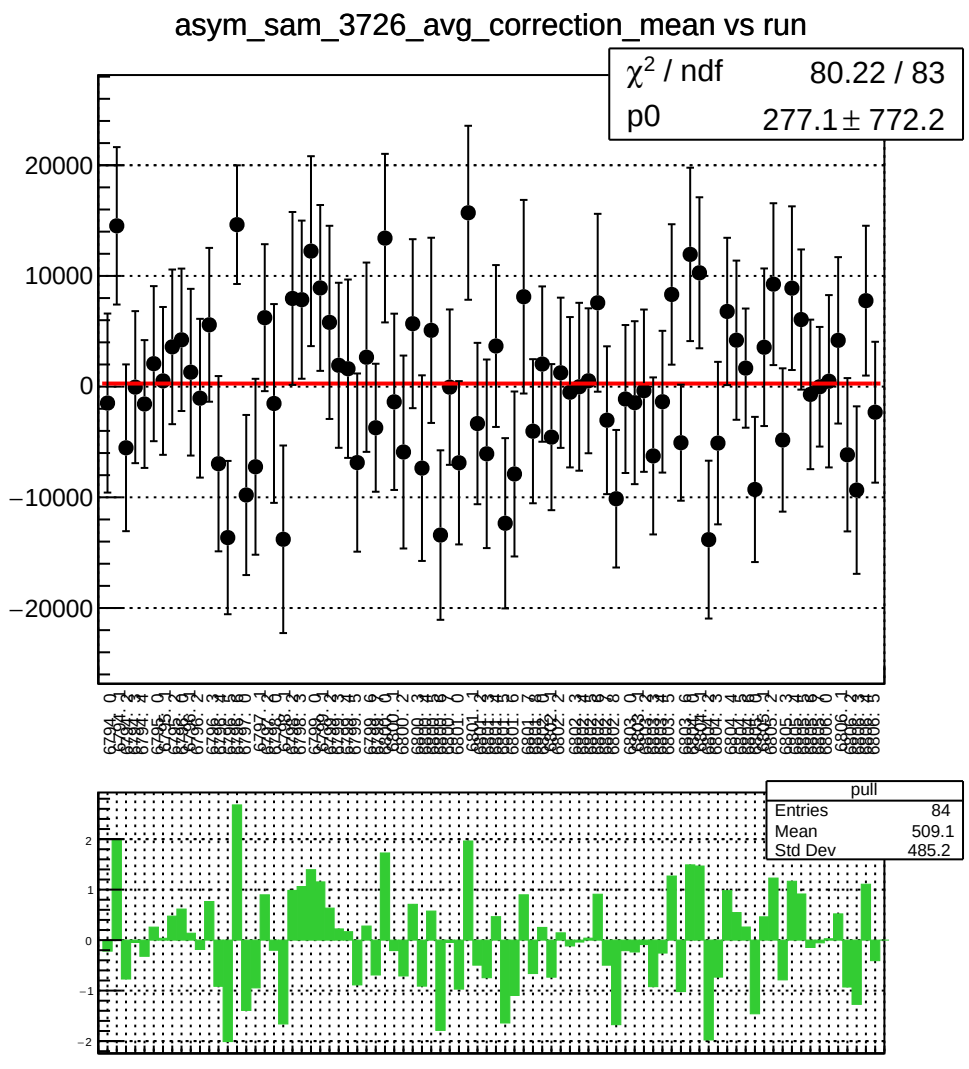

asym_sam_1526_avg_mean vs run
χ² / ndf 82.73 / 83
p0 −84.35 ± 365.2
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 52.43
Std Dev 98.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

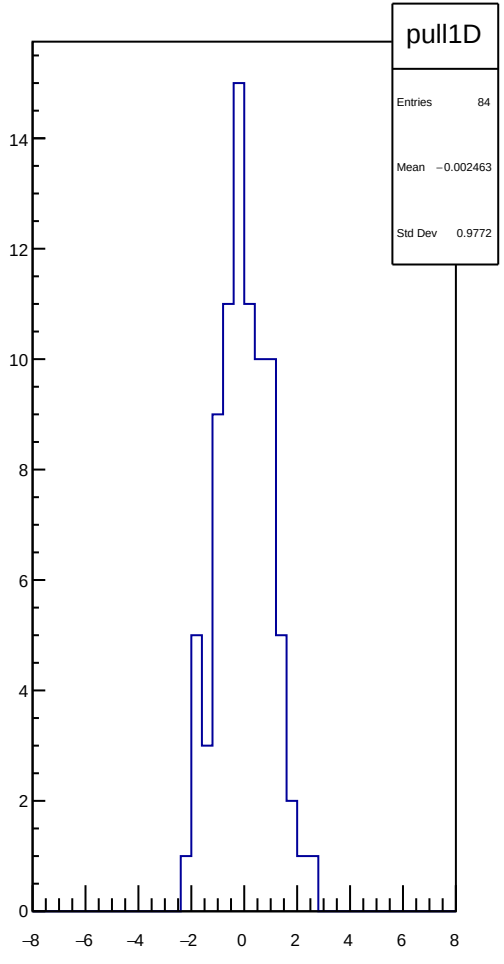

pull1D
Entries 84
Mean 0.008809
Std Dev 0.9924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

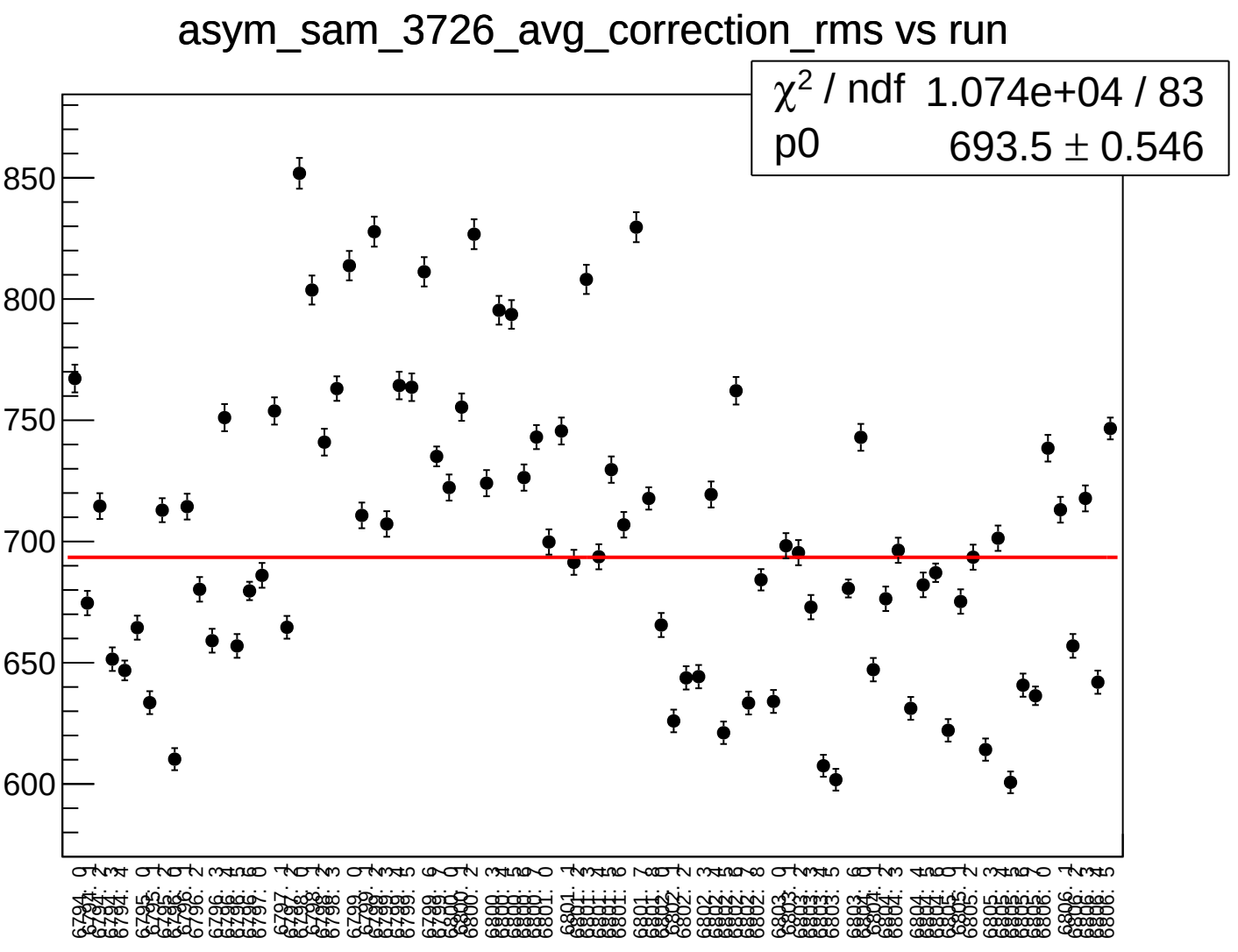

asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.264e+04 / 83
p0 327.8 ± 0.2582
460
440
420
400
380
360
340
320
300
280

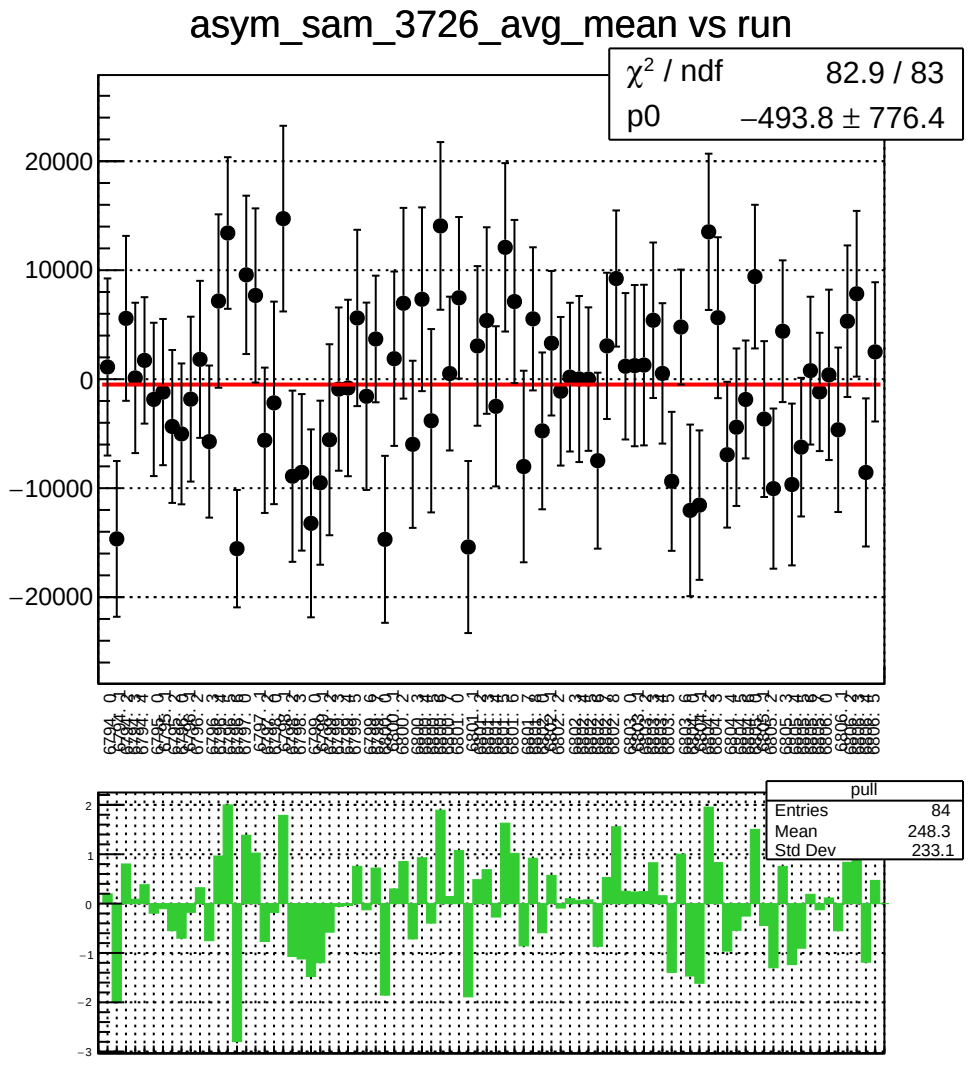

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 75.43 / 83
p0 −179.1± 76.97
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean −264.3
Std Dev 318.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.01157
Std Dev 0.9476
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

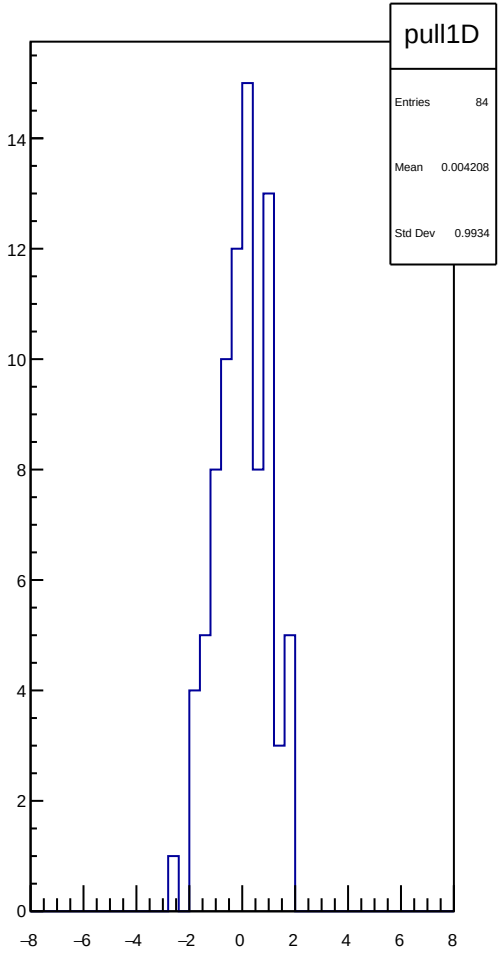

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 3.073e+04 / 83
p0 68.69 ± 0.05442
240
220
200
180
160
140
120
100
80
60
40

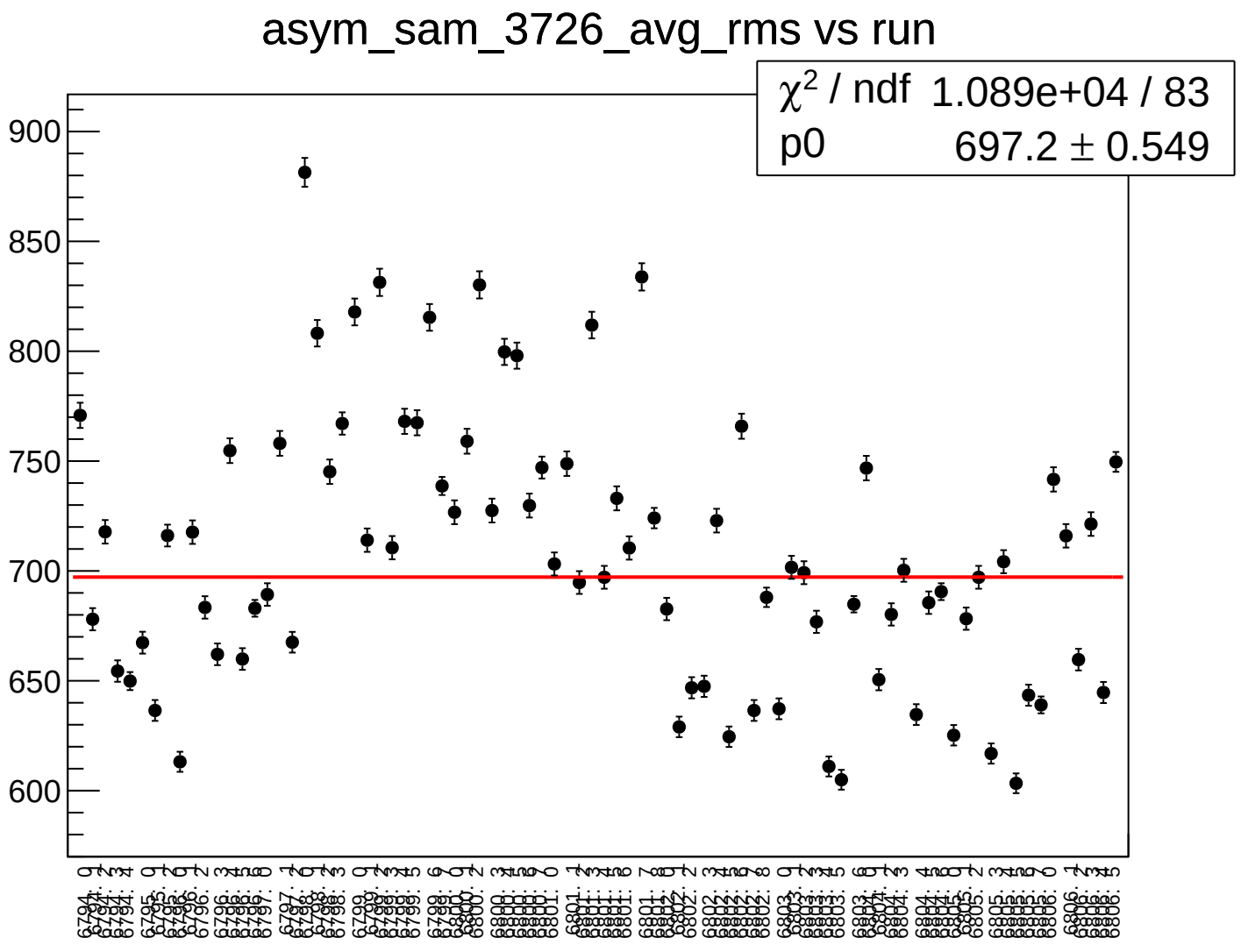

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 80.22 / 83
p0 277.1 ± 772.2
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 509.1
Std Dev 485.2
2
1
0
−1
−2

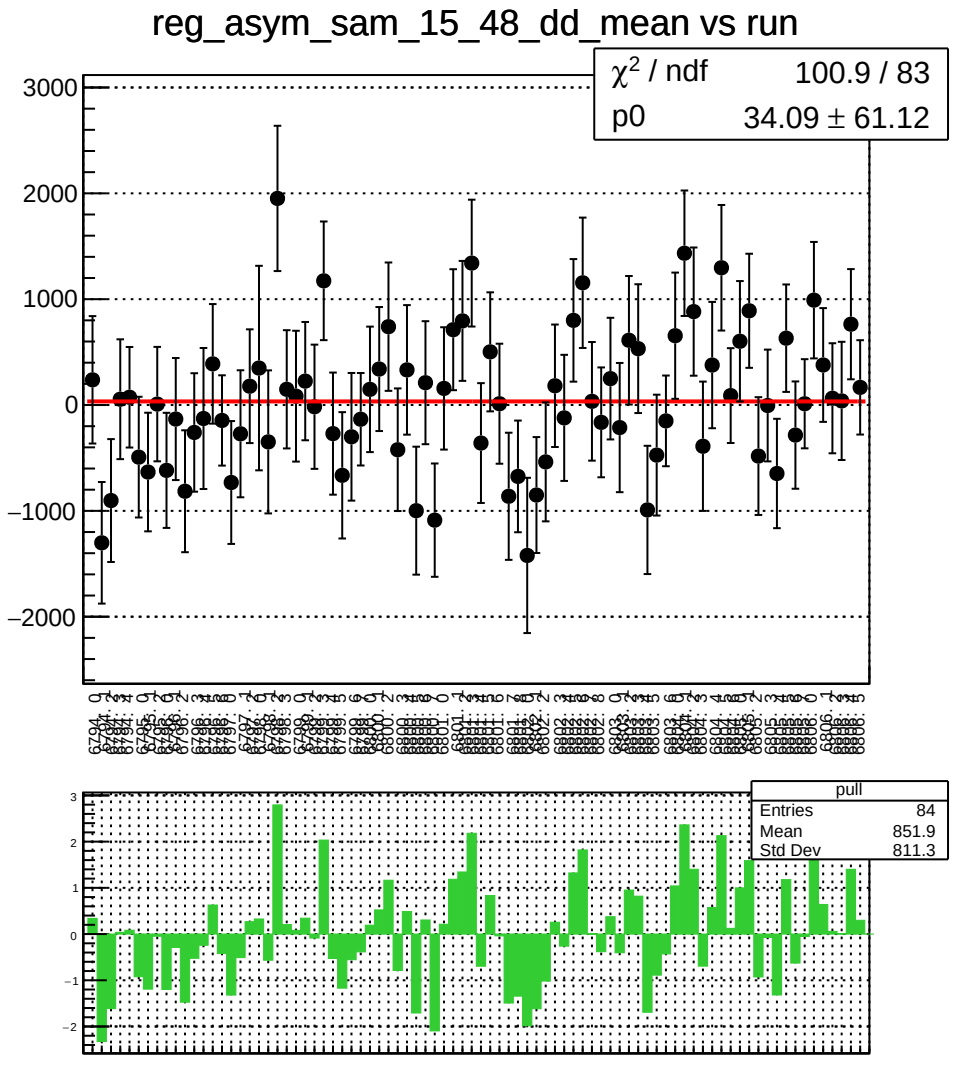

pull1D
Entries 84
Mean −0.002463
Std Dev 0.9772
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

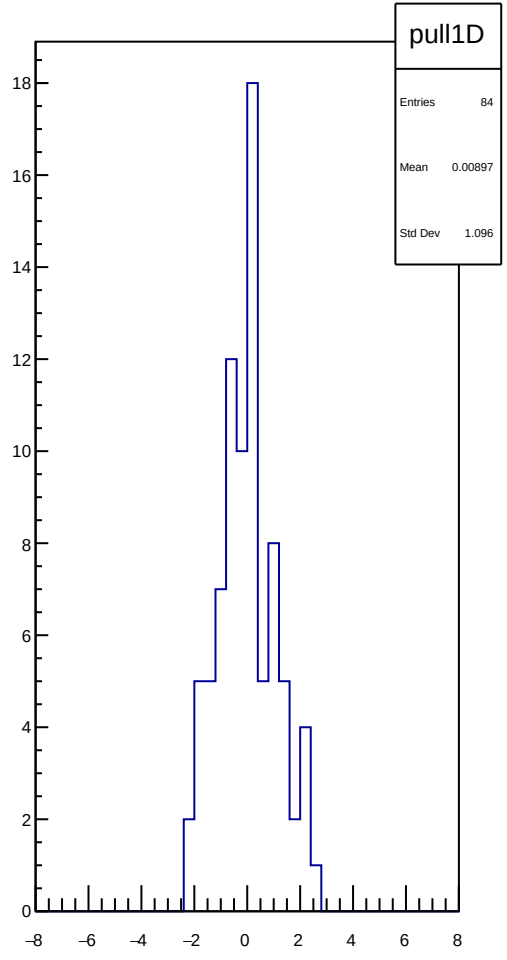

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 1.074e+04 / 83
p0 693.5 ± 0.546
850
800
750
700
650
600

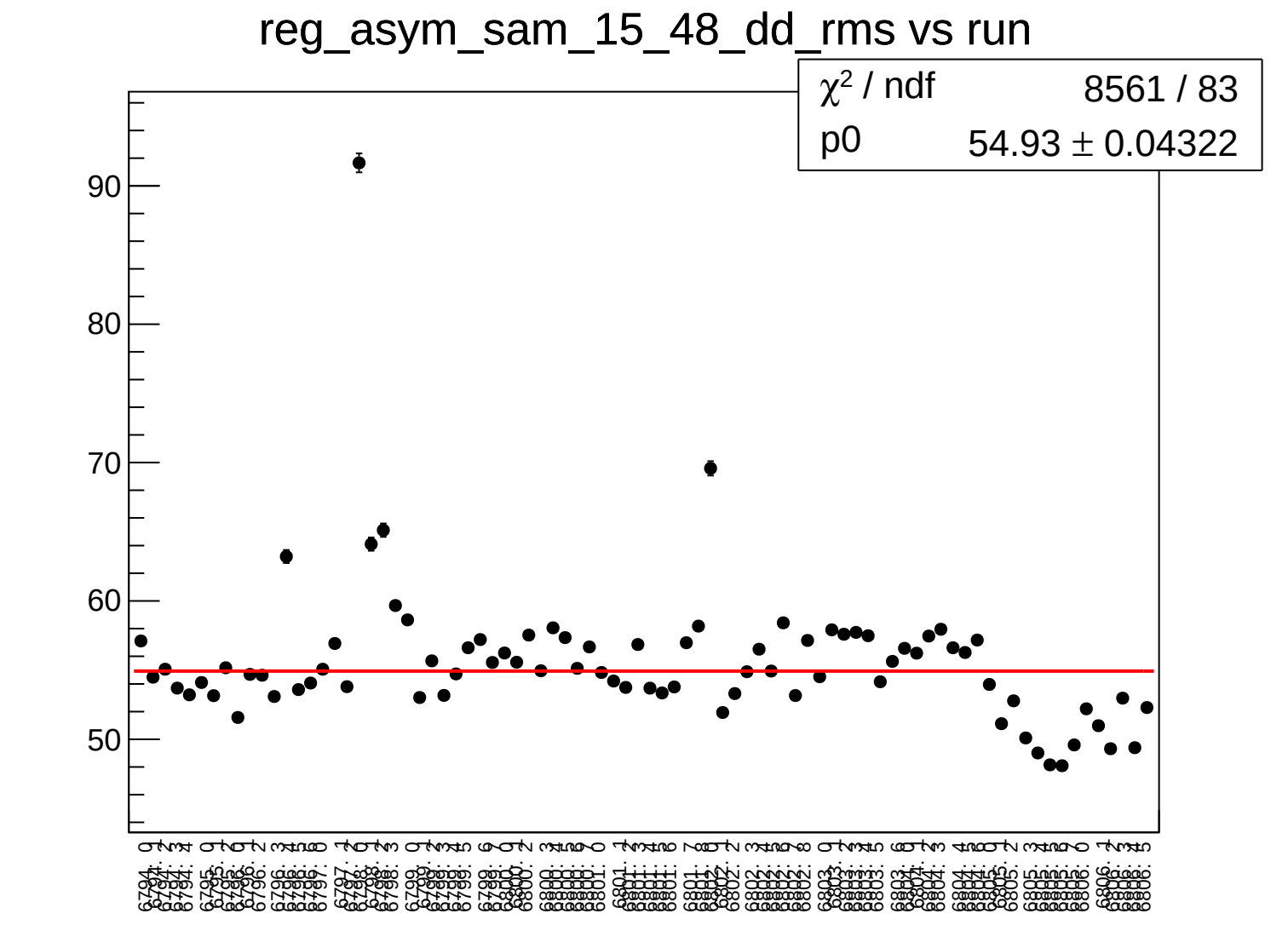

asym_sam_3726_avg_mean vs run
χ² / ndf 82.9 / 83
p0 −493.8 ± 776.4
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 248.3
Std Dev 233.1
2
1
0
−1
−2
−3

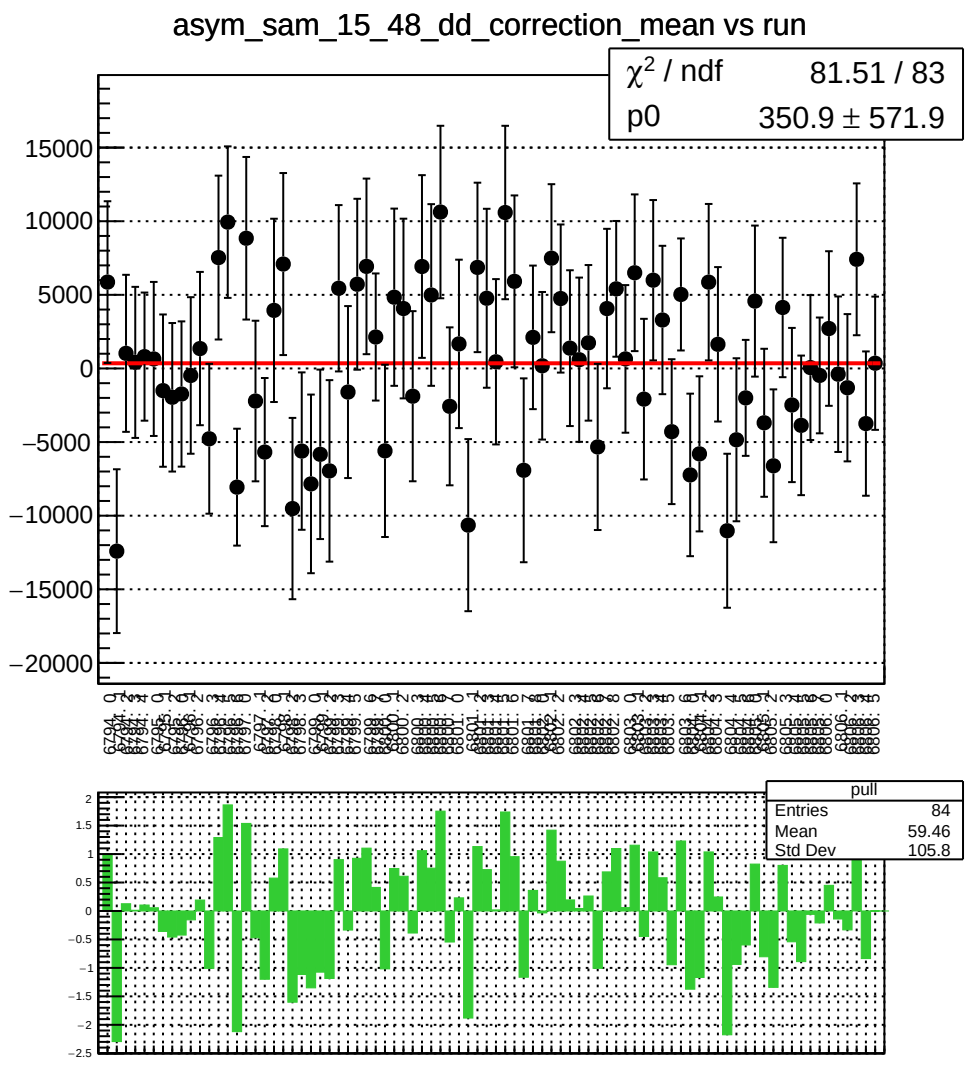

pull1D
Entries 84
Mean 0.004208
Std Dev 0.9934
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

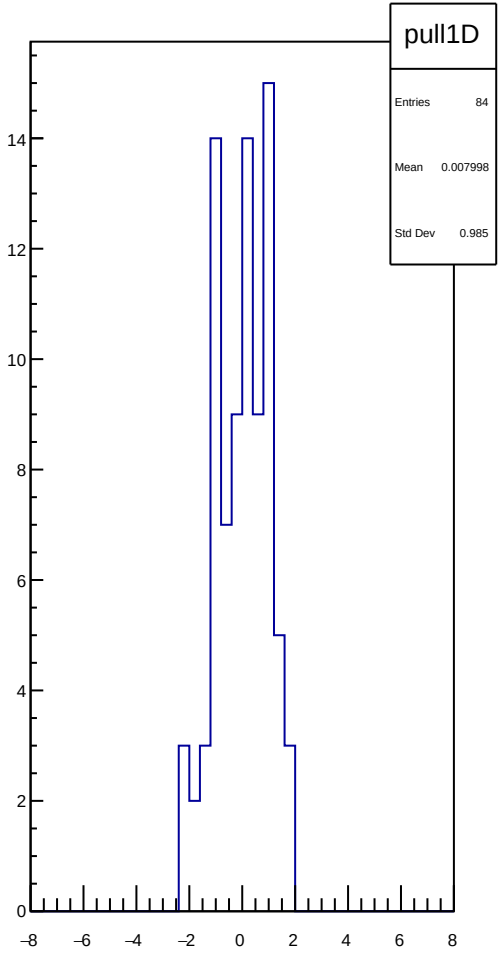

asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.089e+04 / 83
p0 697.2 ± 0.549
900
850
800
750
700
650
600

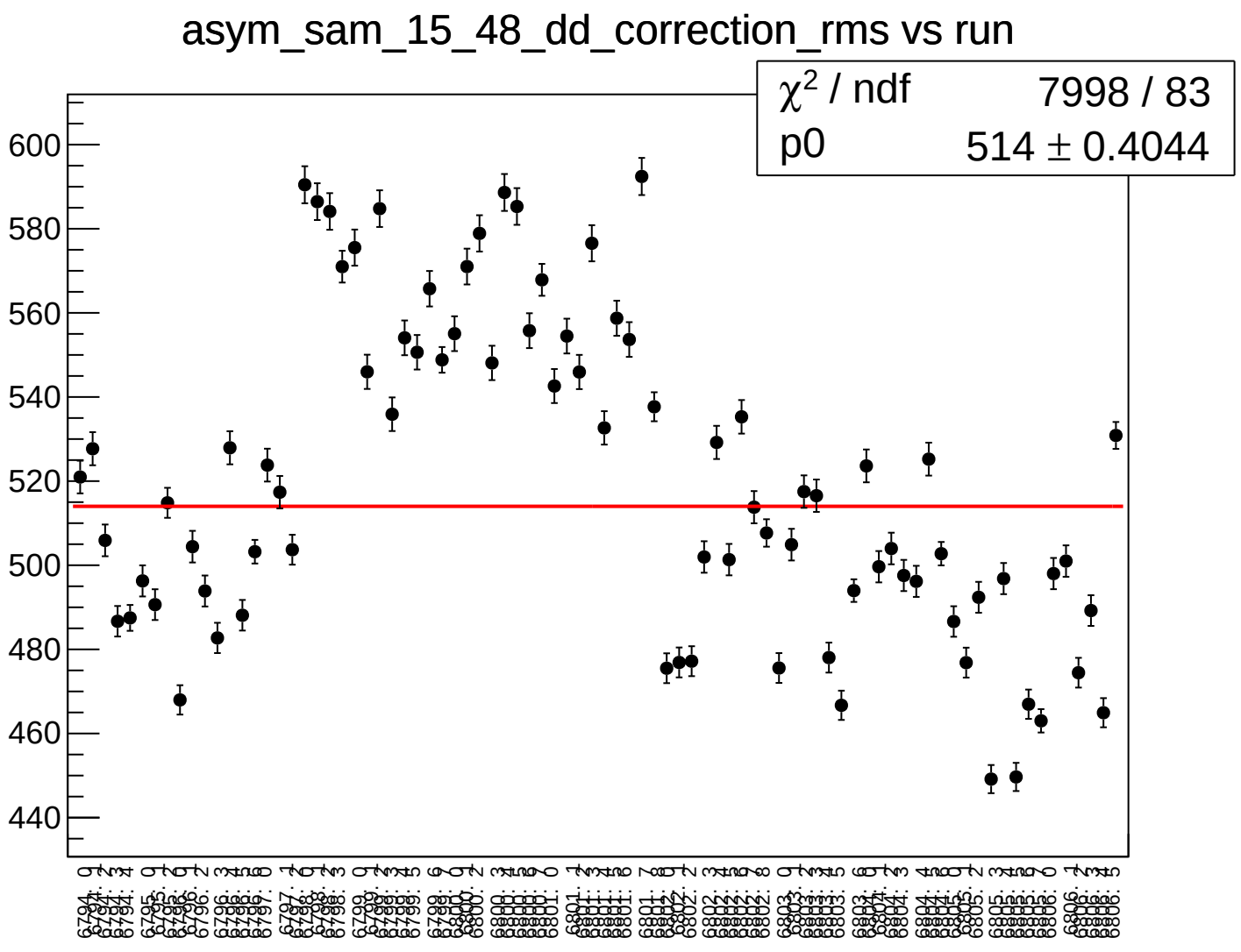

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 100.9 / 83
p0 34.09 ± 61.12
3000
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 851.9
Std Dev 811.3
3
2
1
0
−1
−2

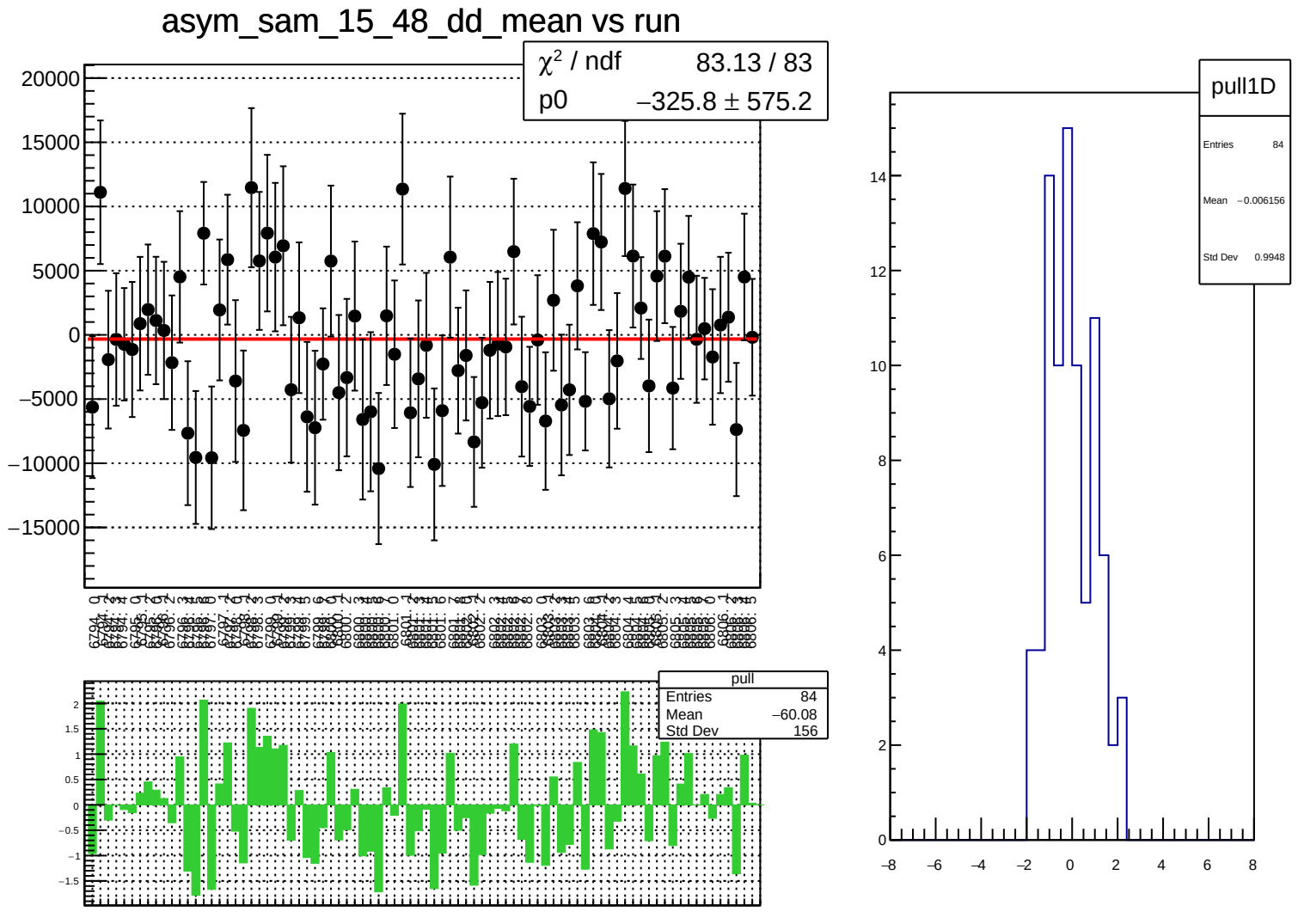

pull1D
Entries 84
Mean 0.00897
Std Dev 1.096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

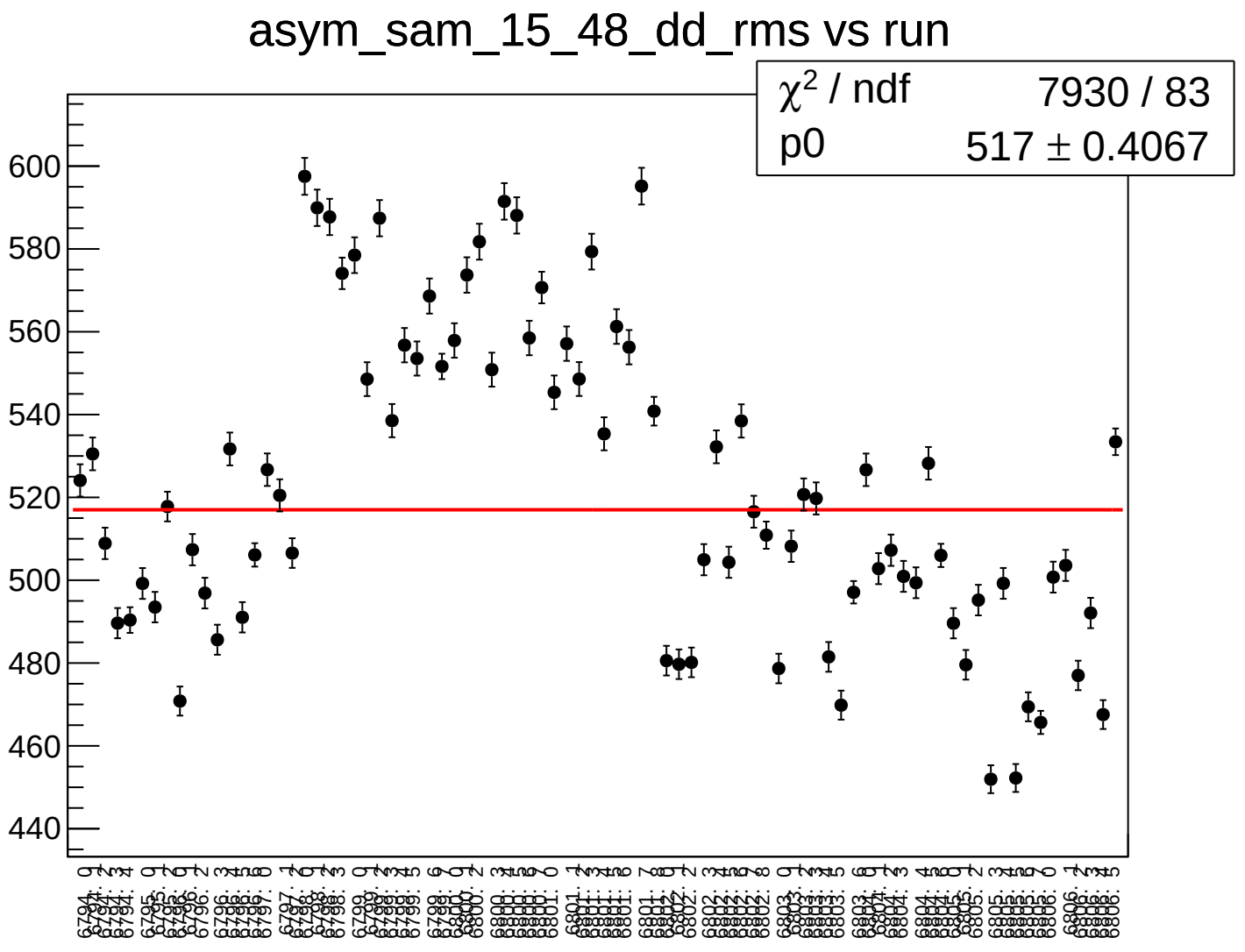

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 8561 / 83
p0 54.93 ± 0.04322
90
80
70
60
50

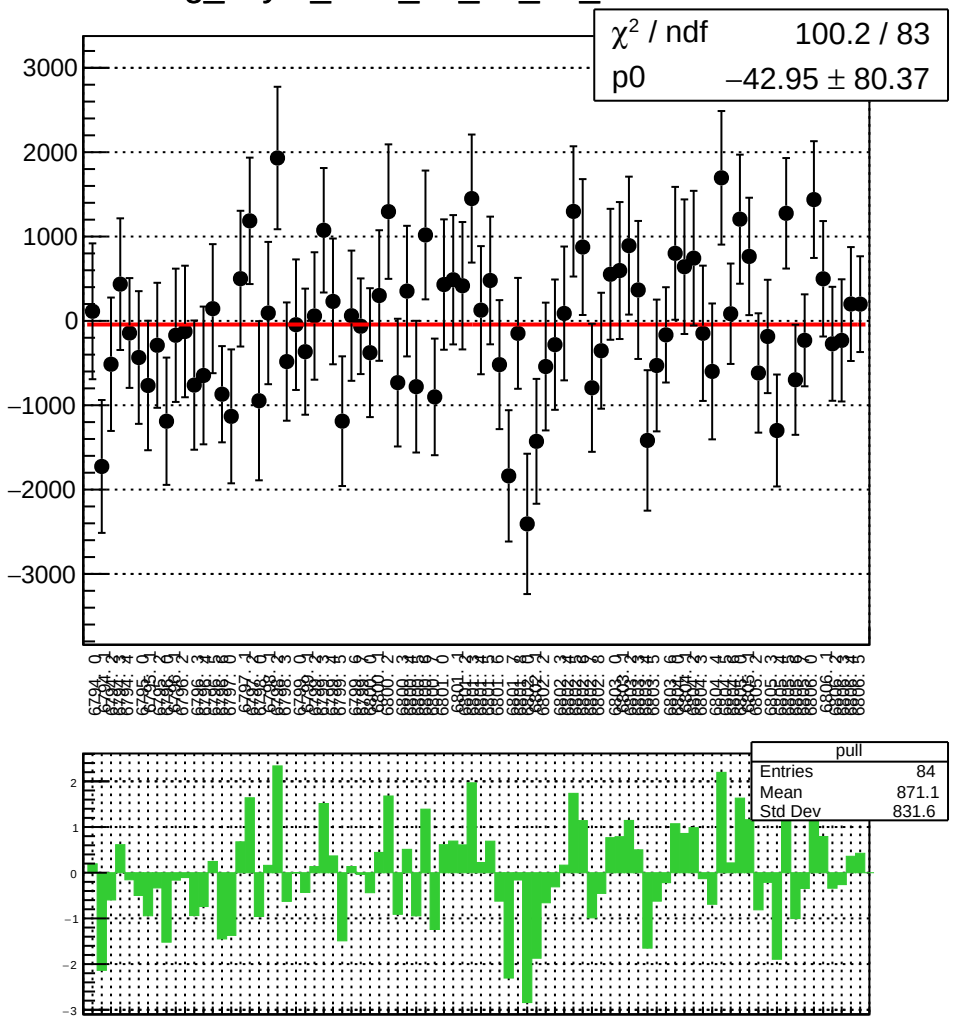

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 81.51 / 83
p0 350.9 ± 571.9
pull
Entries 84
Mean 59.46
Std Dev 105.8

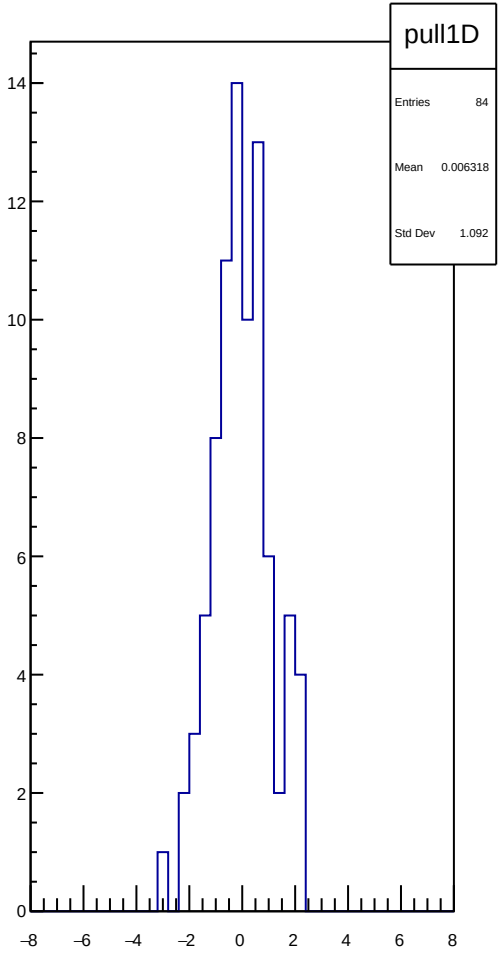

pull1D
Entries 84
Mean 0.007998
Std Dev 0.985

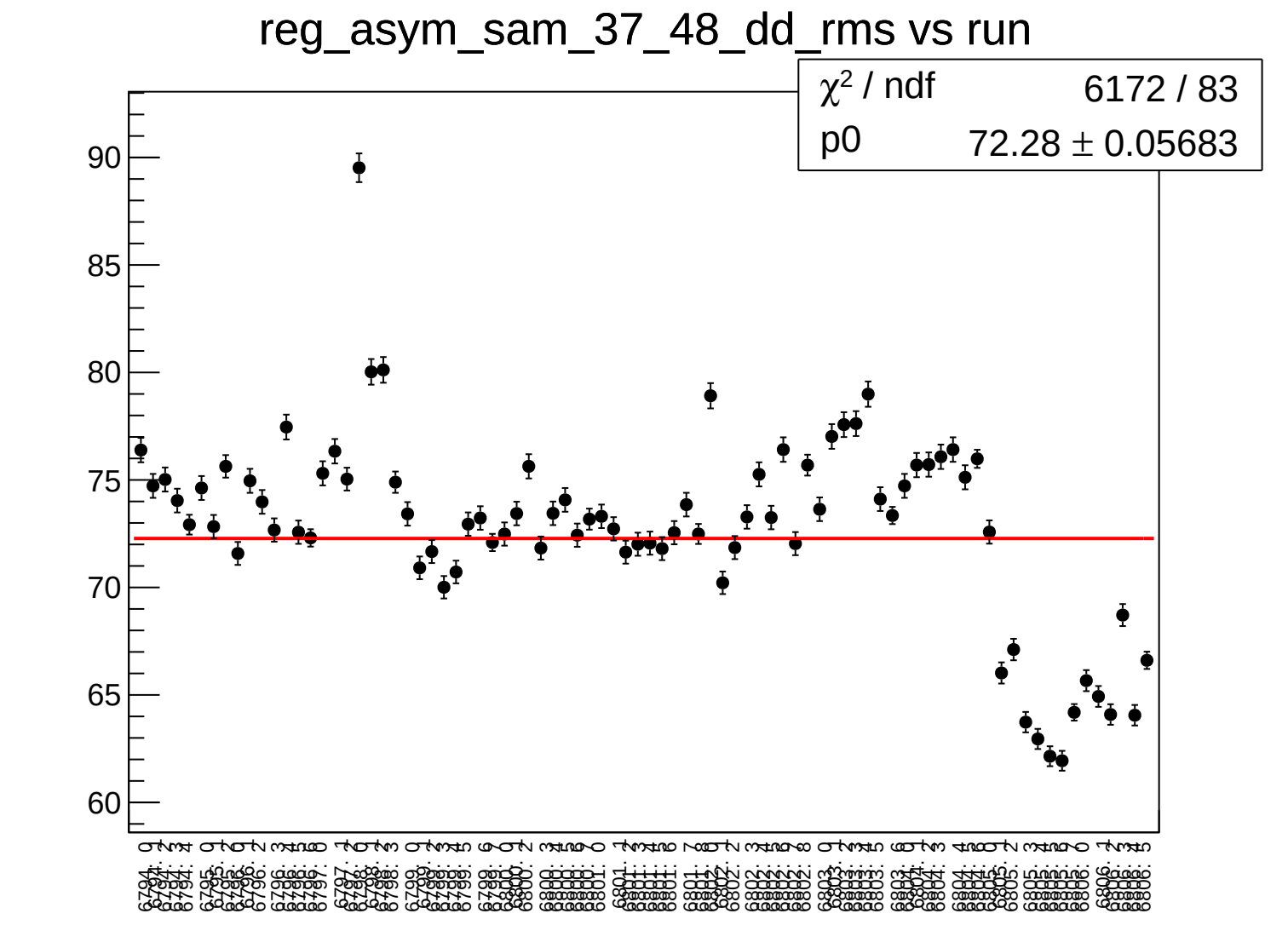

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 7998 / 83
p0 514 ± 0.4044
600
580
560
540
520
500
480
460
440

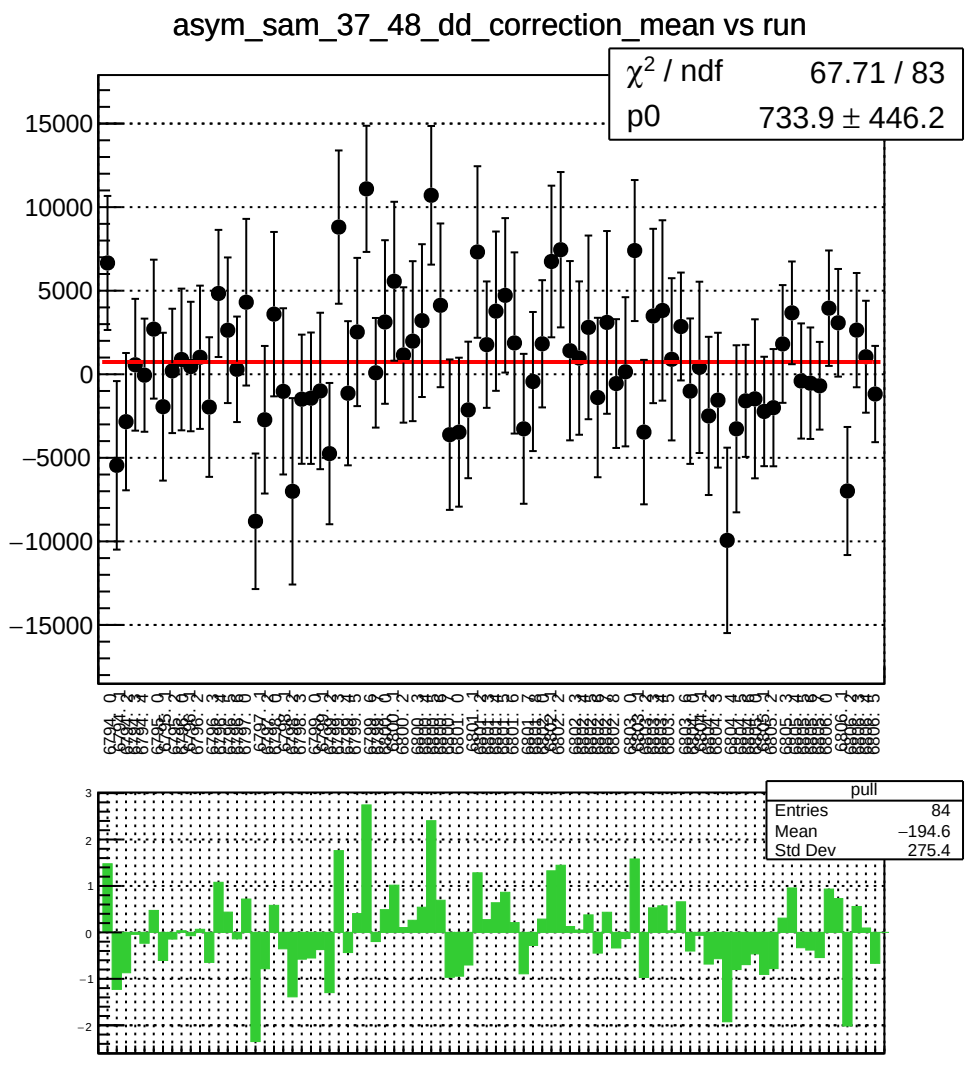

asym_sam_15_48_dd_mean vs run
χ² / ndf 83.13 / 83
p0 −325.8 ± 575.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −60.08
Std Dev 156
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean −0.006156
Std Dev 0.9948
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

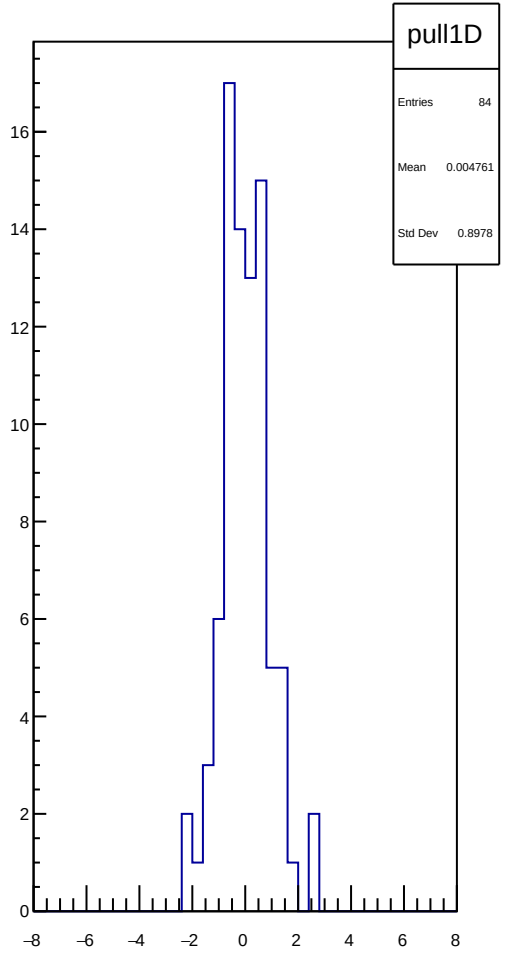

asym_sam_15_48_dd_rms vs run
χ^2 / ndf 7930 / 83
p0 517 ± 0.4067
600
580
560
540
520
500
480
460
440

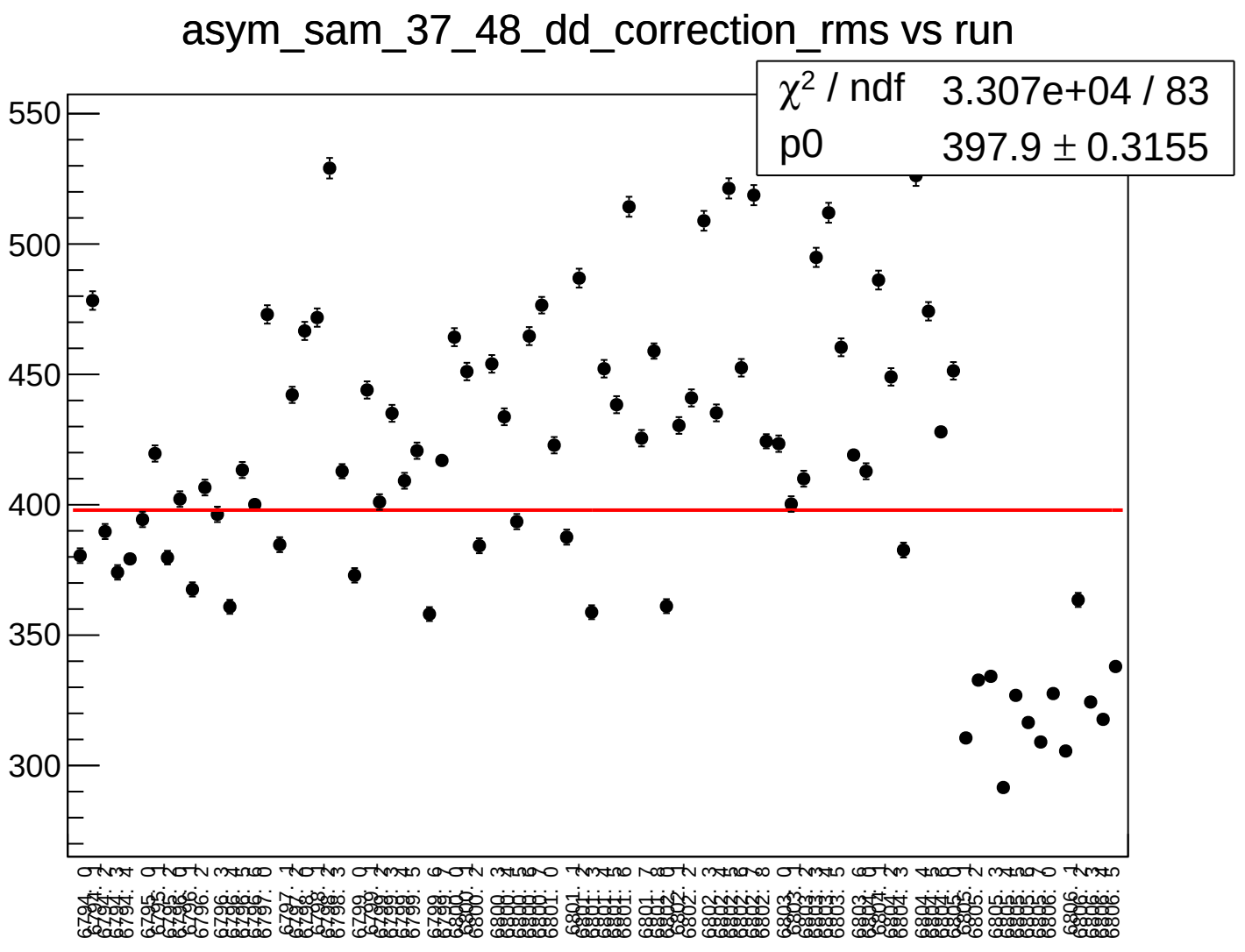

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 100.2 / 83
p0 −42.95 ± 80.37
pull
Entries 84
Mean 871.1
Std Dev 831.6

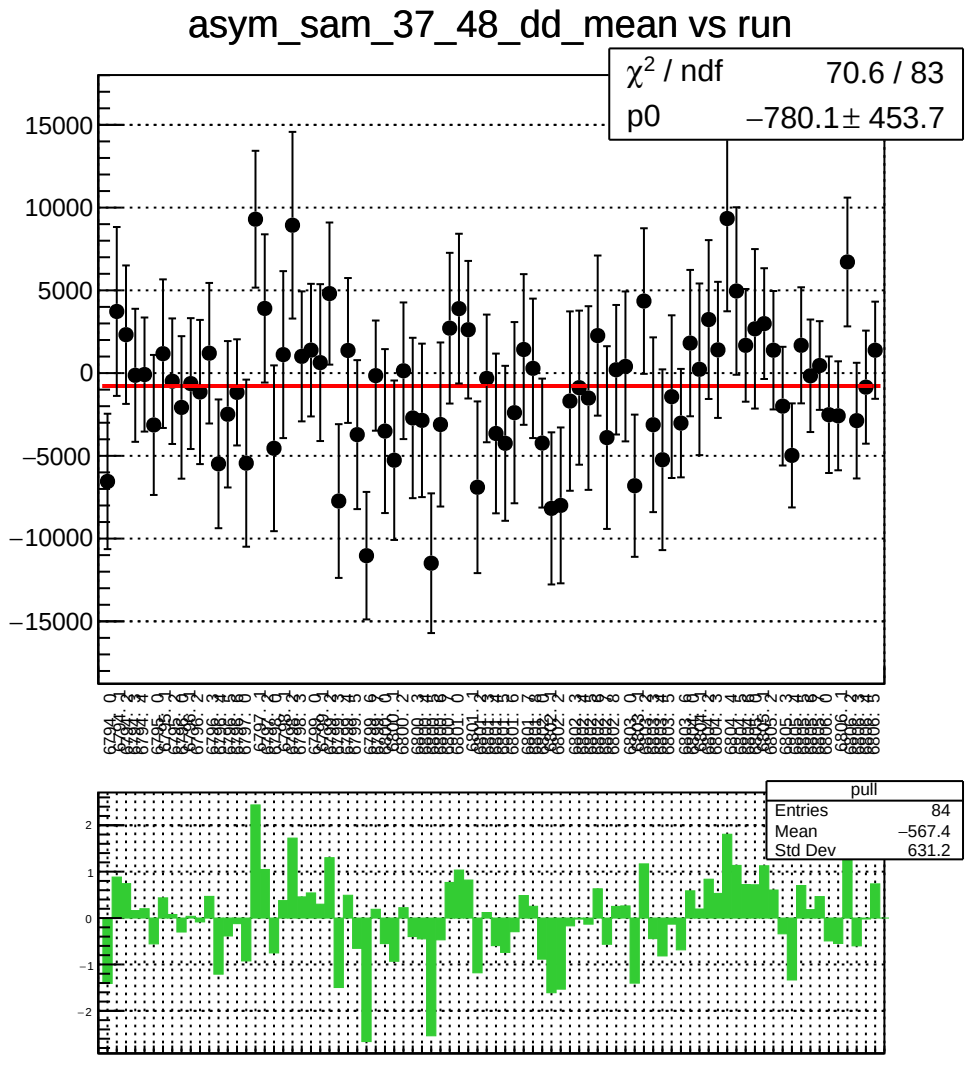

pull1D
Entries 84
Mean 0.006318
Std Dev 1.092

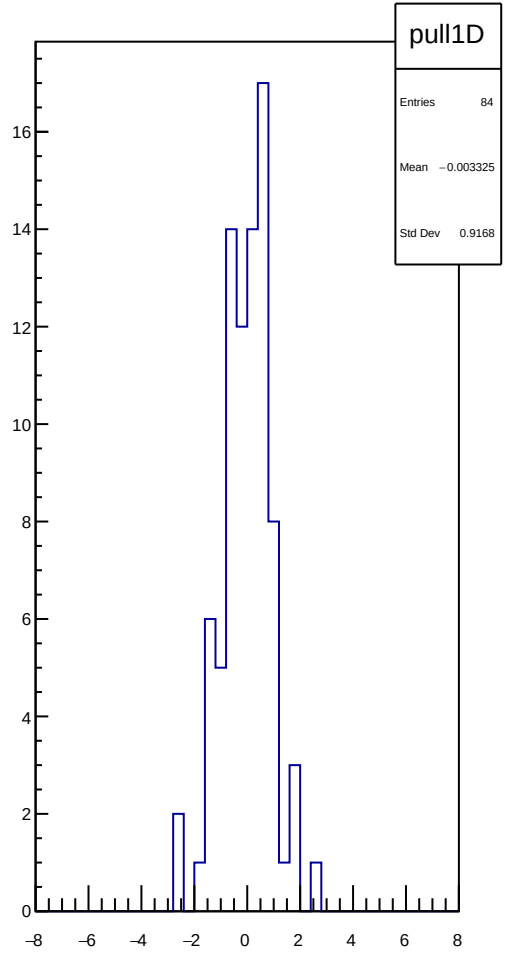

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 6172 / 83
p0 72.28 ± 0.05683
90
85
80
75
70
65
60

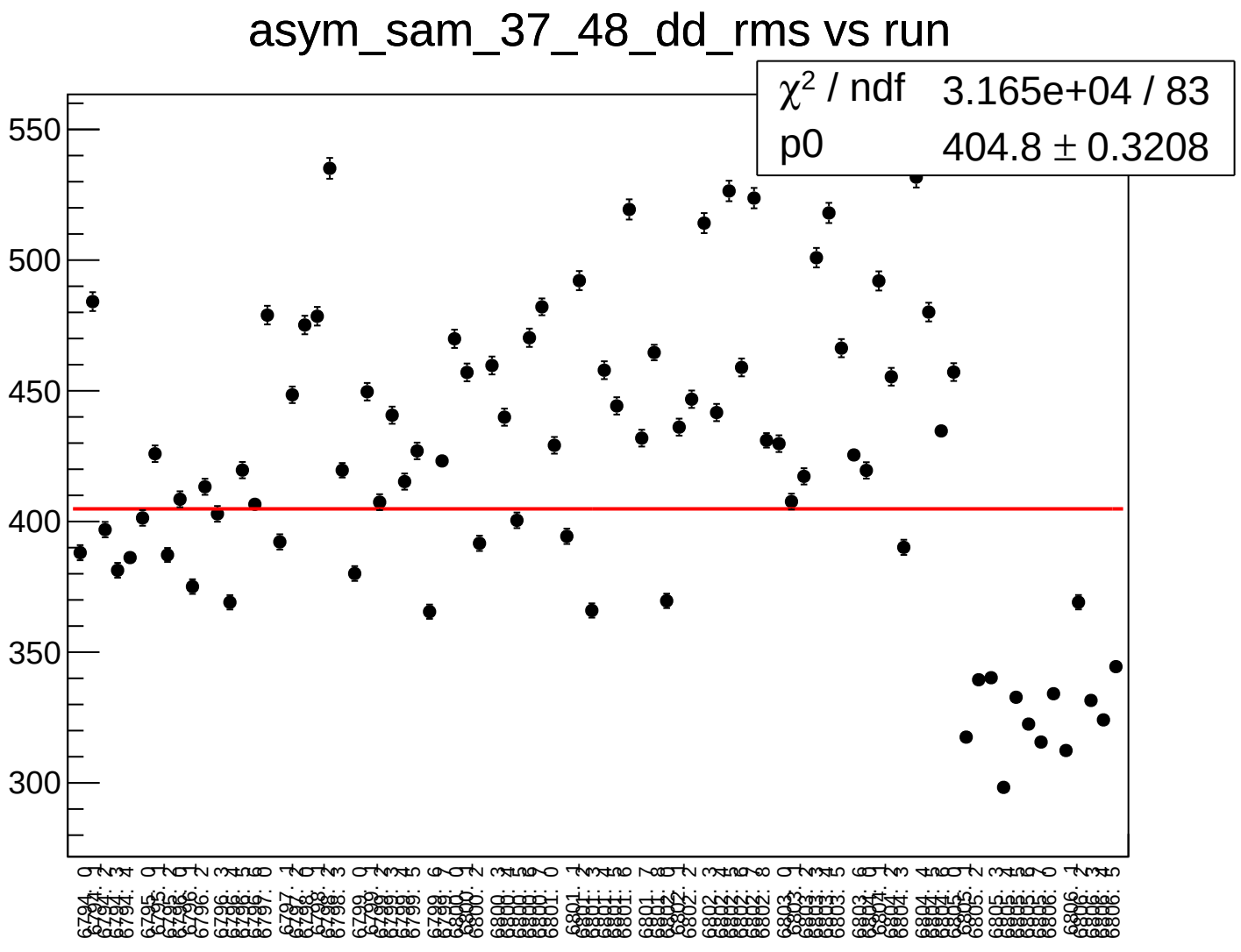

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 67.71 / 83
p0 733.9 ± 446.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −194.6
Std Dev 275.4
3
2
1
0
−1
−2

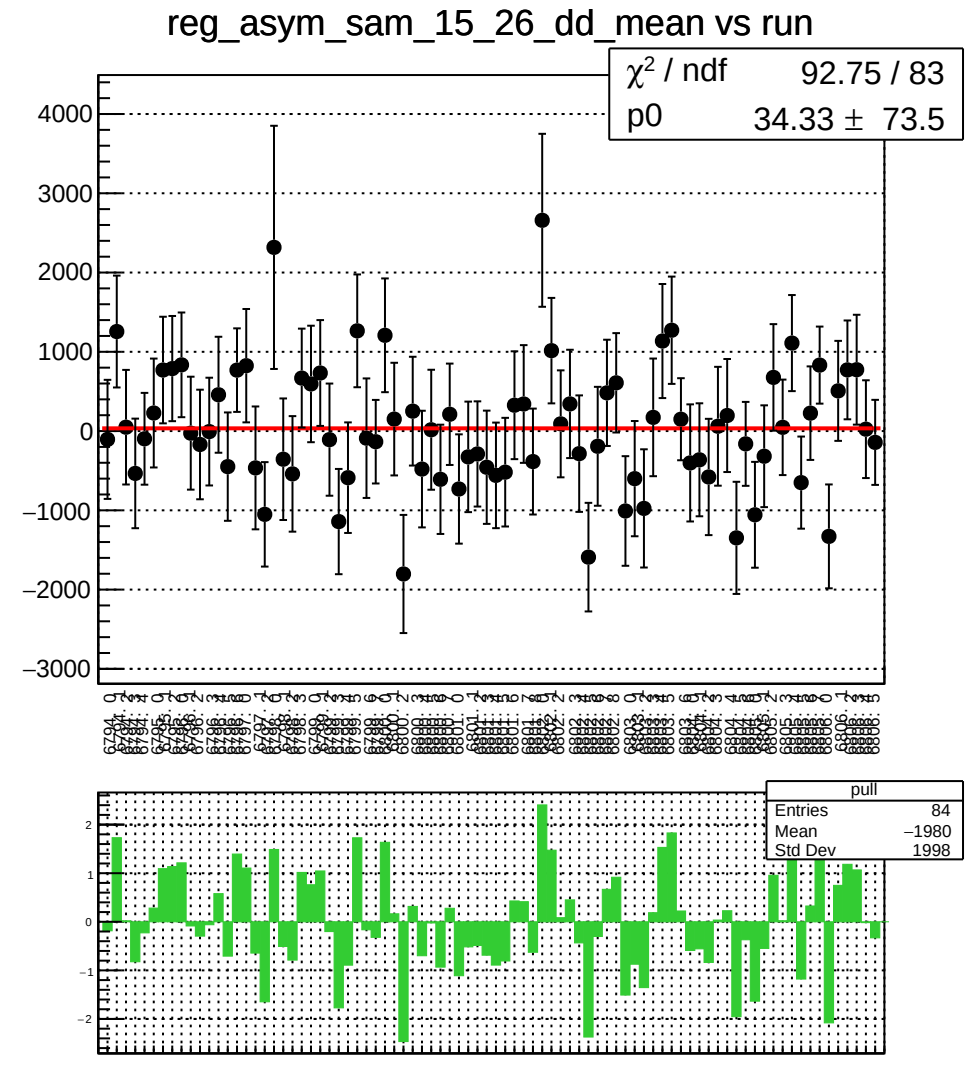

pull1D
Entries 84
Mean 0.004761
Std Dev 0.8978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

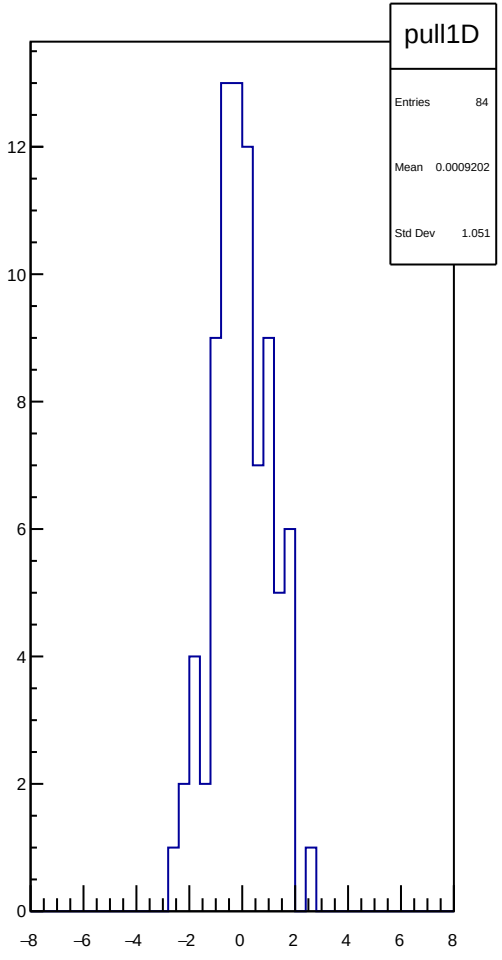

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 3.307e+04 / 83
p0 397.9 ± 0.3155
550
500
450
400
350
300

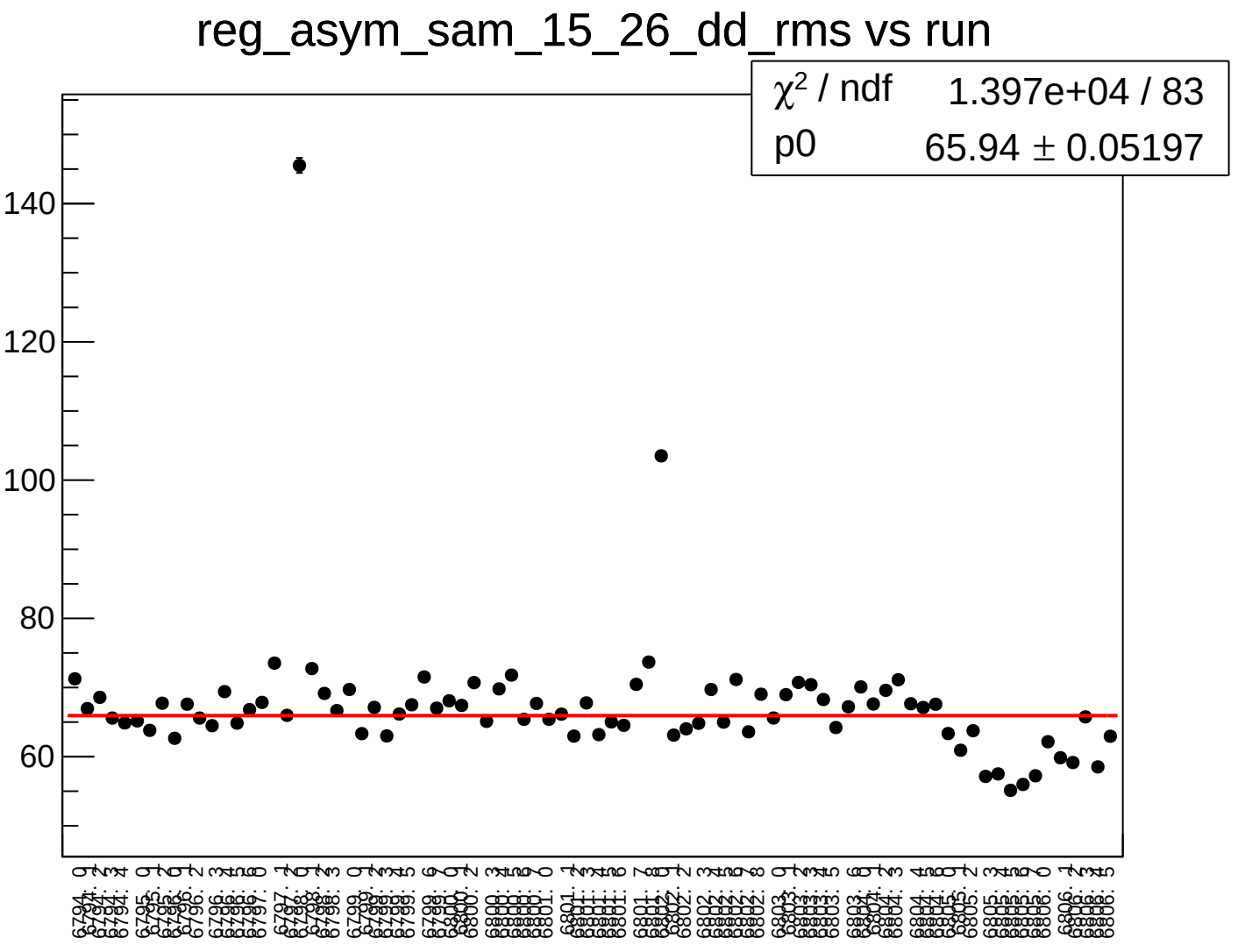

asym_sam_37_48_dd_mean vs run
χ² / ndf 70.6 / 83
p0 −780.1 ± 453.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −567.4
Std Dev 631.2
2
1
0
−1
−2

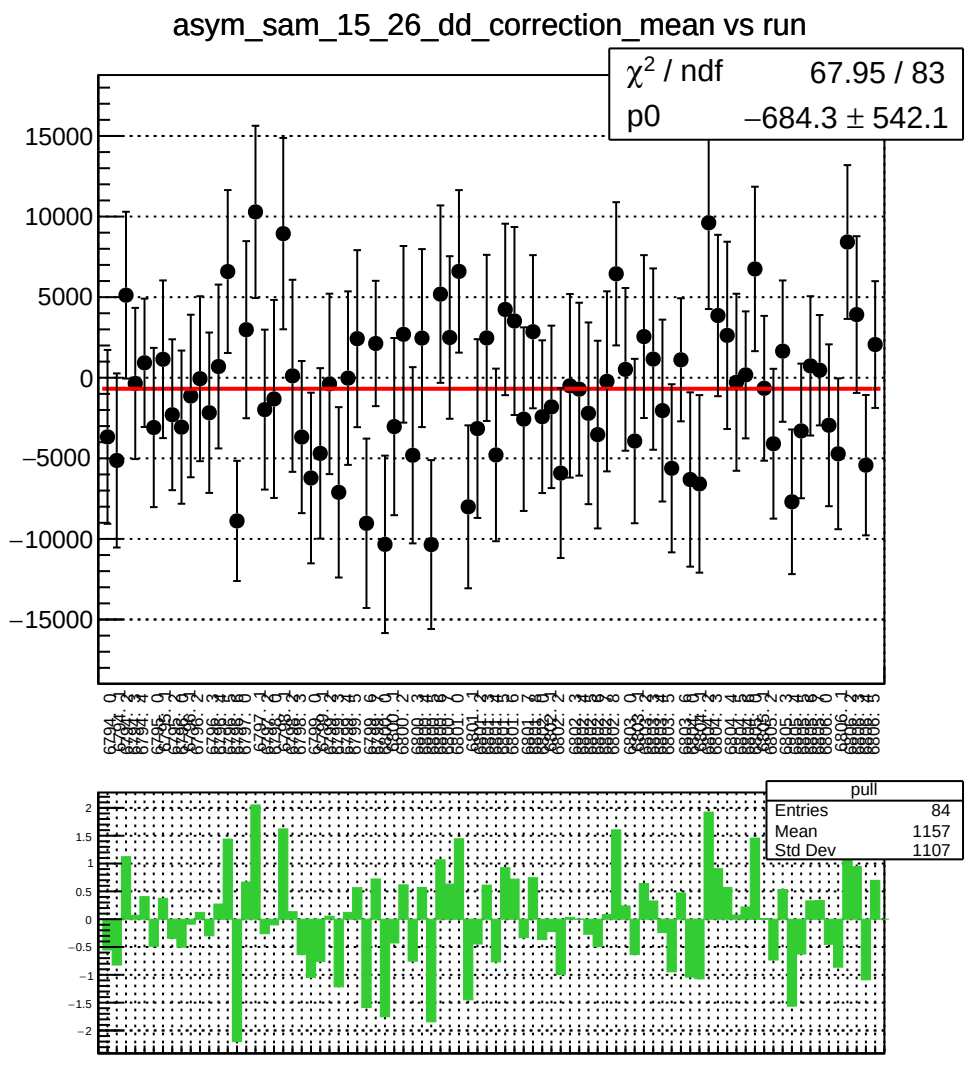

pull1D
Entries 84
Mean −0.003325
Std Dev 0.9168
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

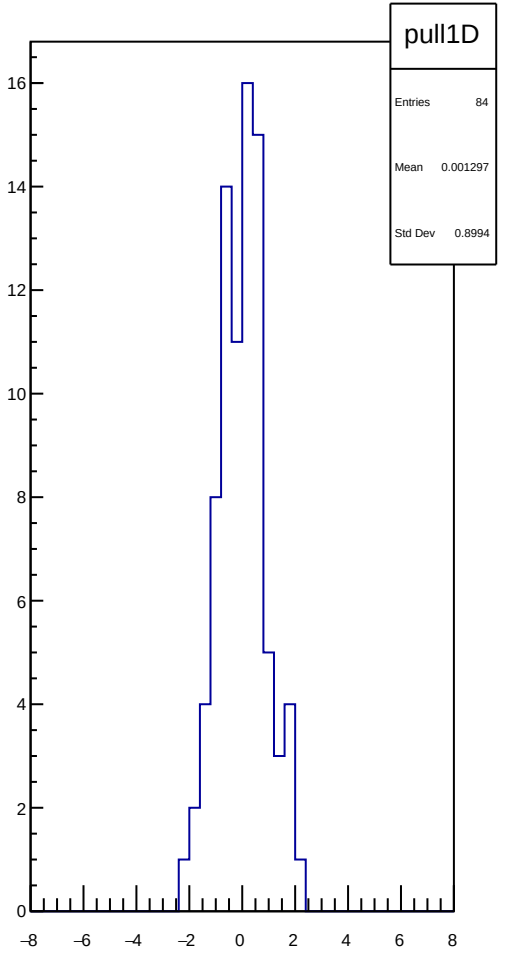

asym_sam_37_48_dd_rms vs run
χ² / ndf 3.165e+04 / 83
p0 404.8 ± 0.3208
550
500
450
400
350
300

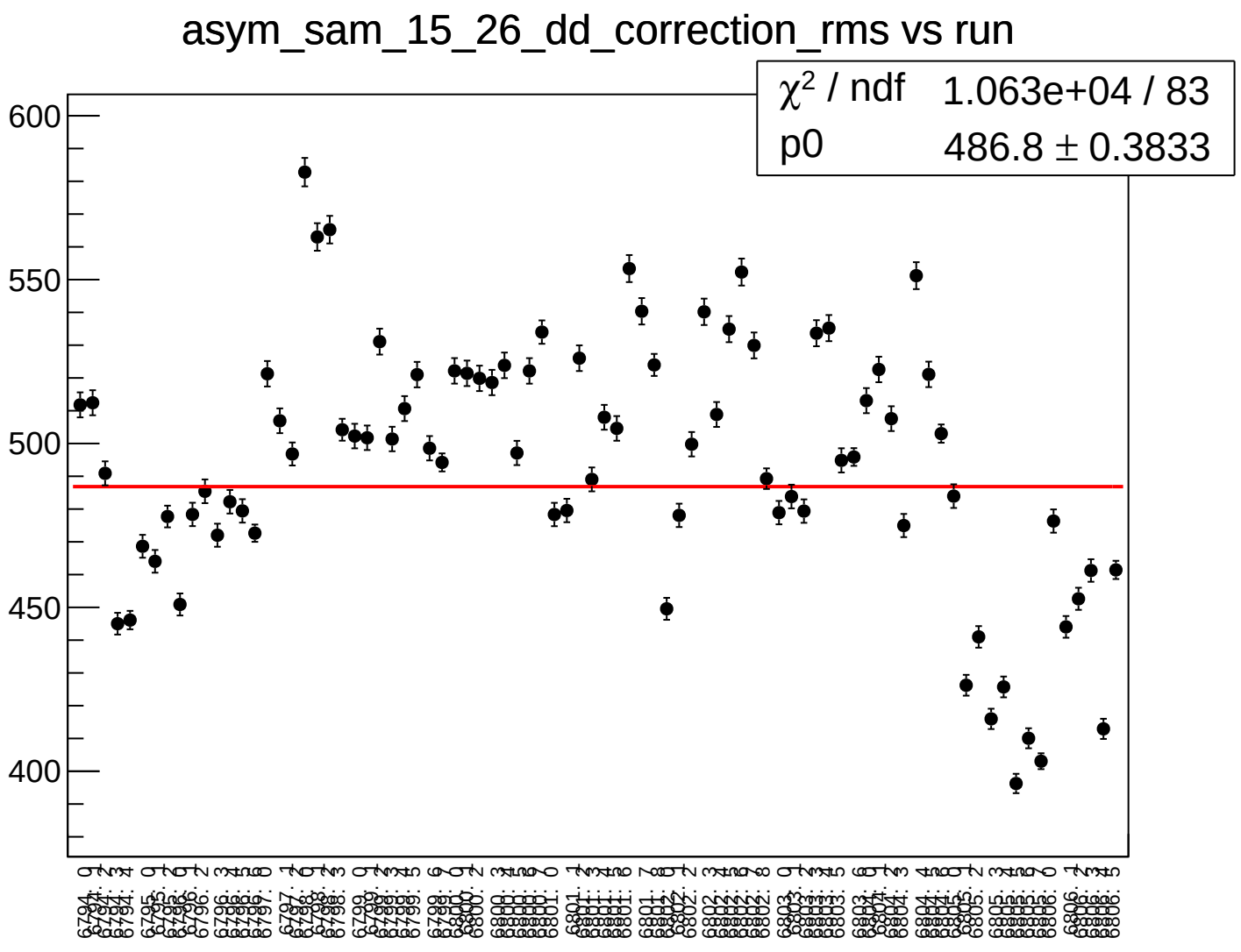

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 92.75 / 83
p0 34.33 ± 73.5
pull
Entries 84
Mean −1980
Std Dev 1998

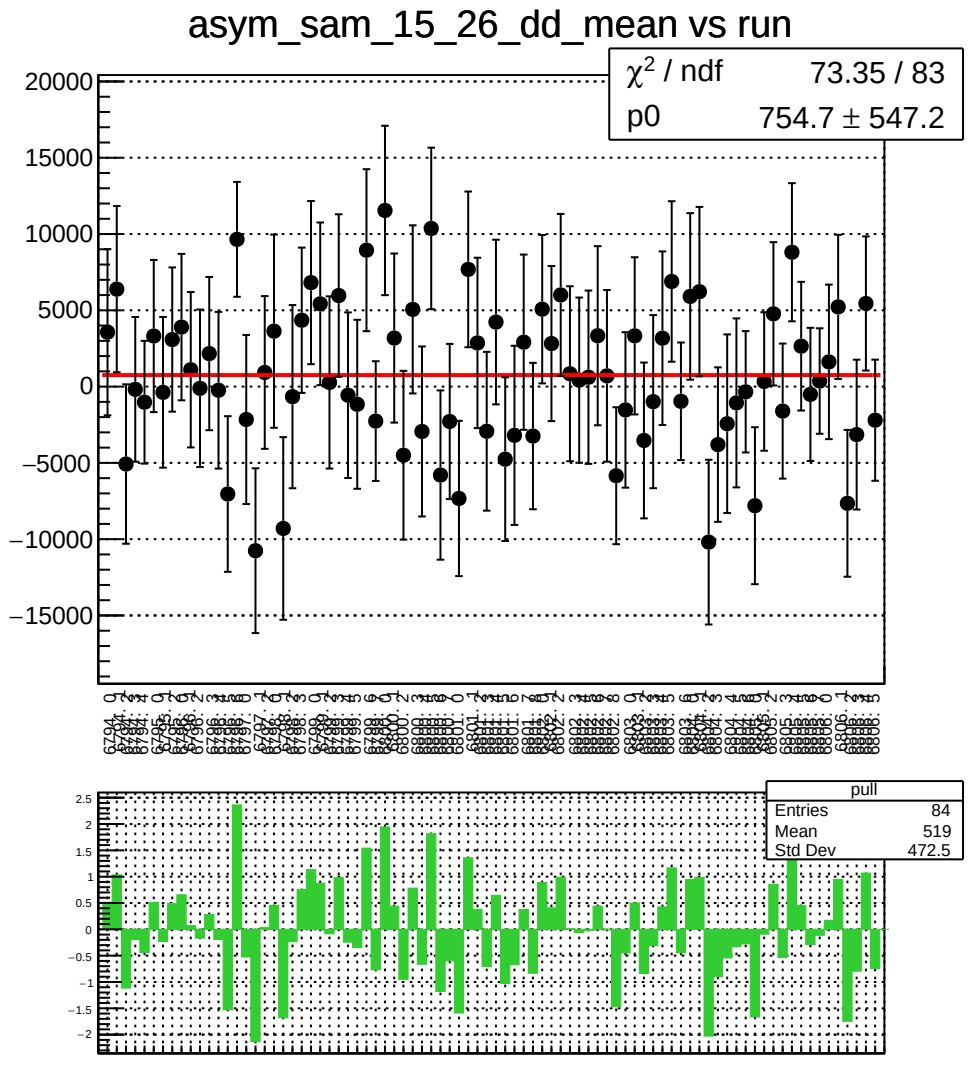

pull1D
Entries 84
Mean 0.0009202
Std Dev 1.051

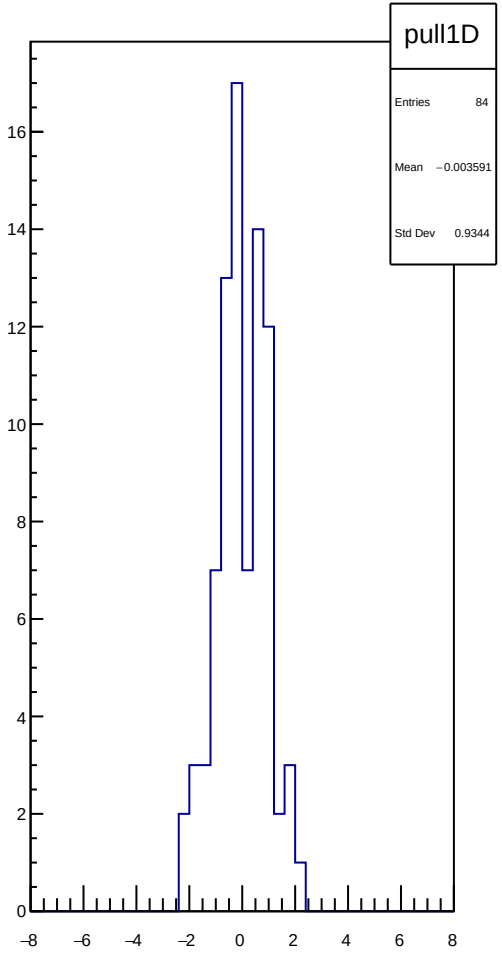

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.397e+04 / 83
p0 65.94 ± 0.05197
140
120
100
80
60

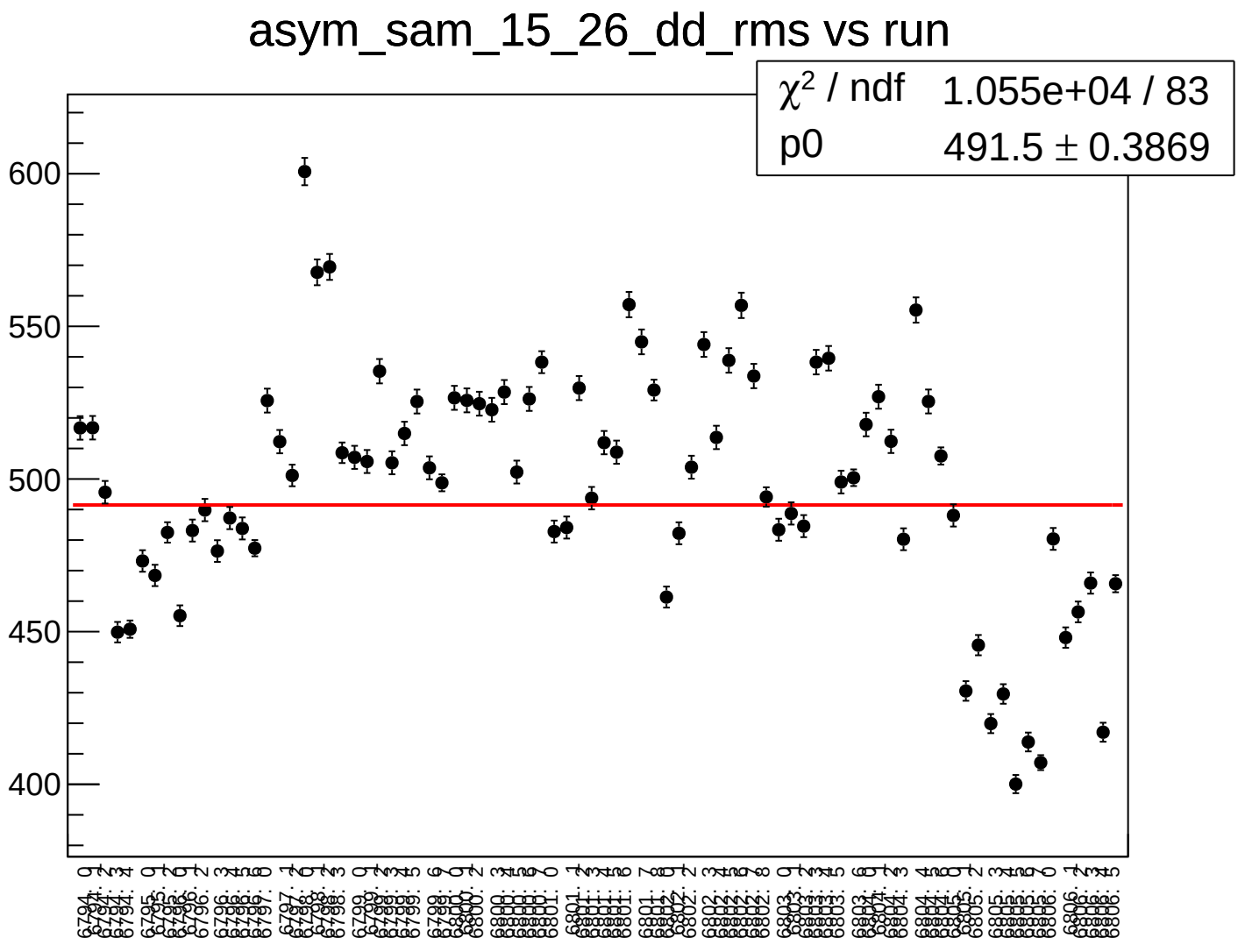

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 67.95 / 83
p0 −684.3 ± 542.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 1157
Std Dev 1107
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

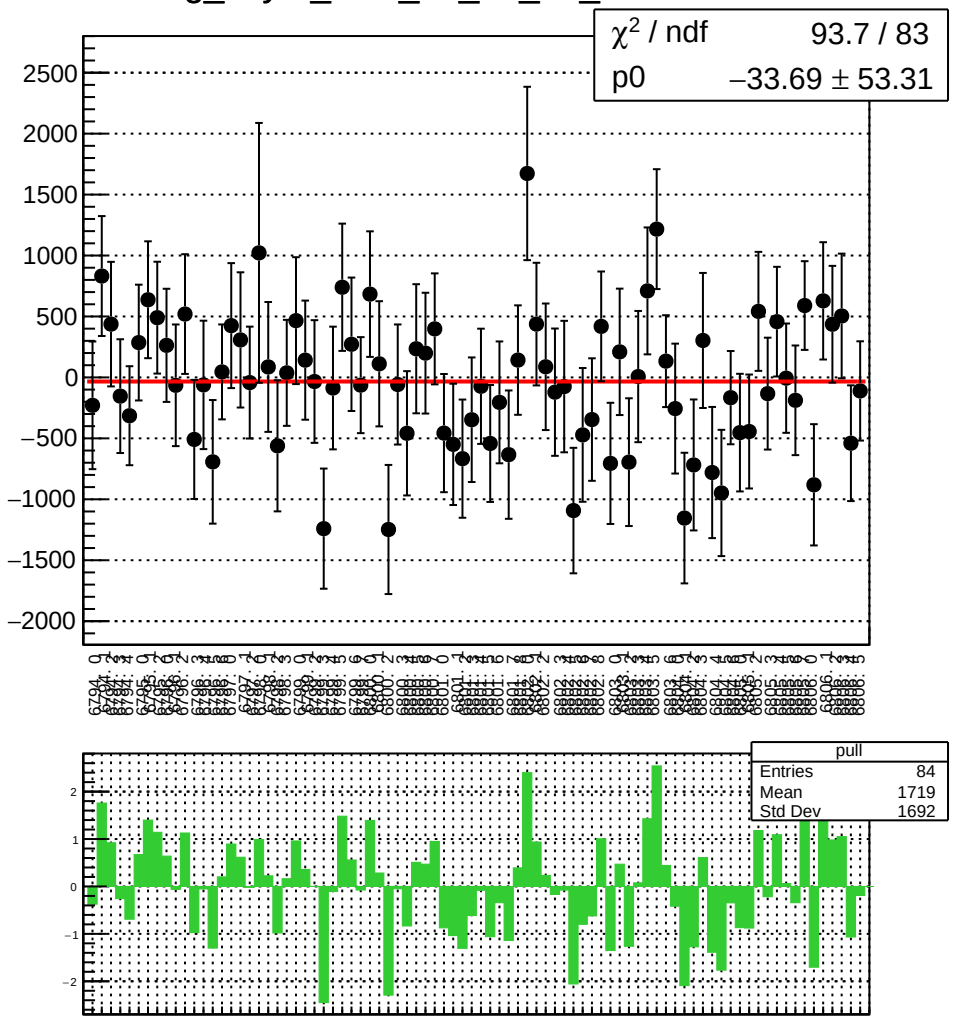

pull1D
Entries 84
Mean 0.001297
Std Dev 0.8994
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

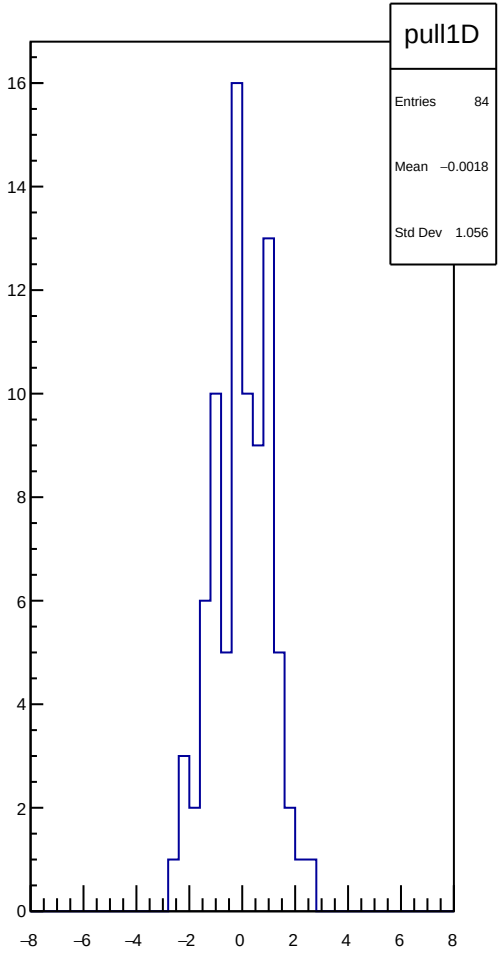

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 1.063e+04 / 83
p0 486.8 ± 0.3833
600
550
500
450
400

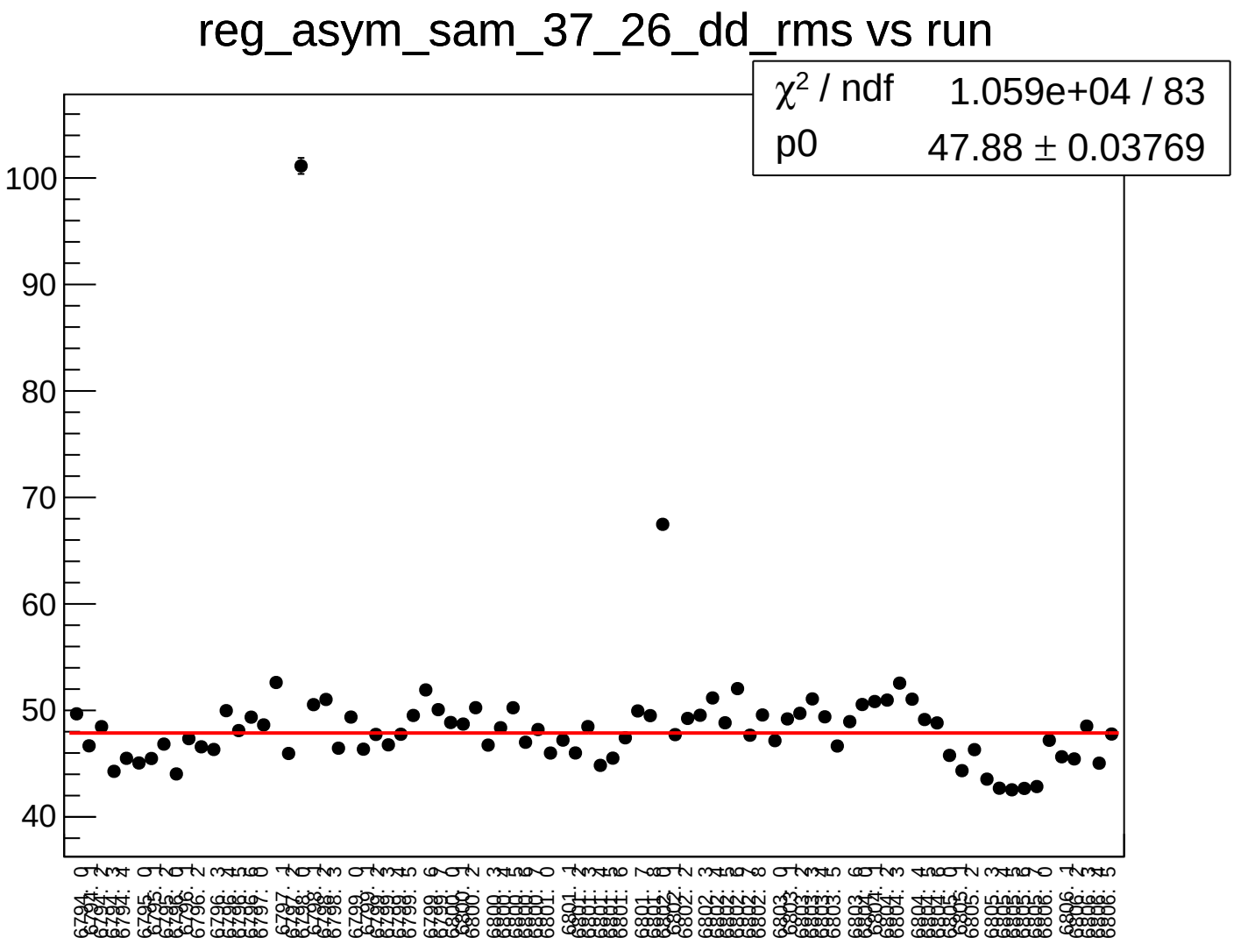

asym_sam_15_26_dd_mean vs run
χ² / ndf 73.35 / 83
p0 754.7 ± 547.2
pull
Entries 84
Mean 519
Std Dev 472.5

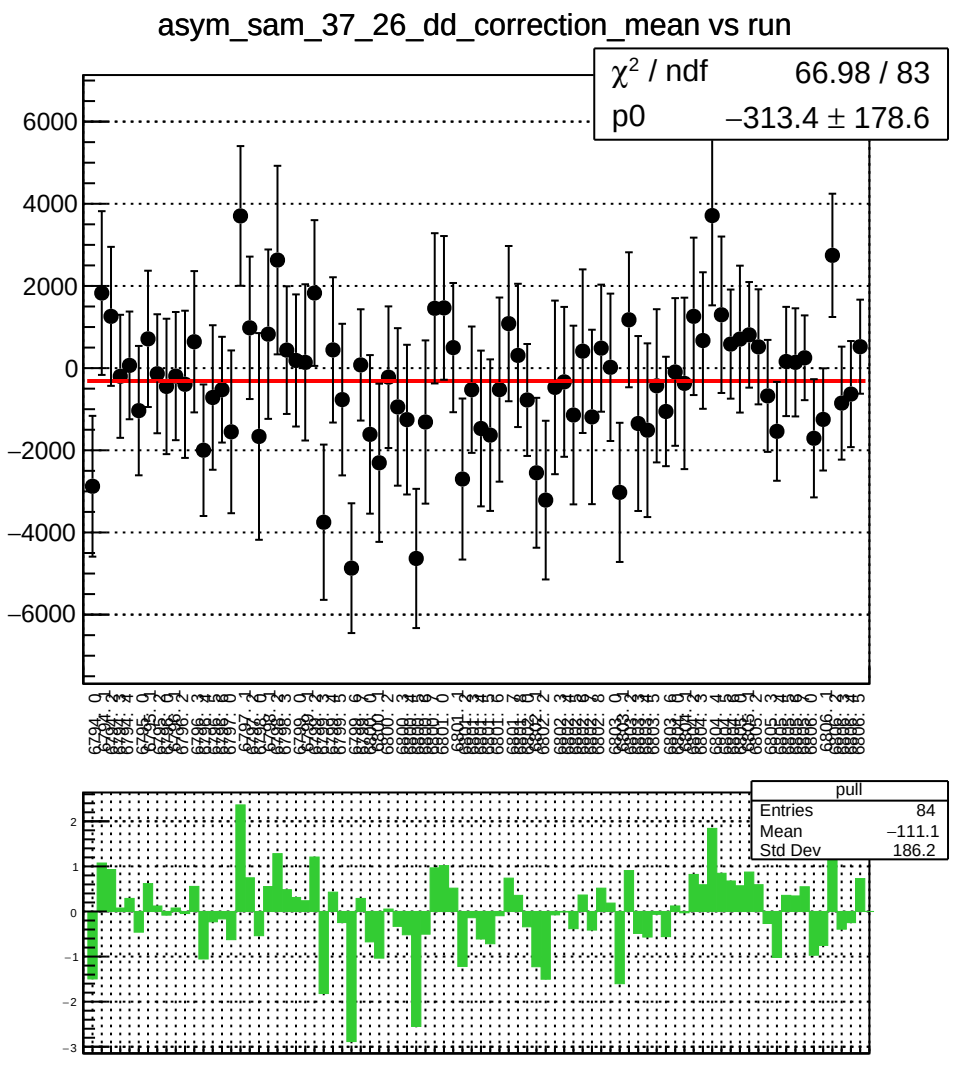

pull1D
Entries 84
Mean −0.003591
Std Dev 0.9344

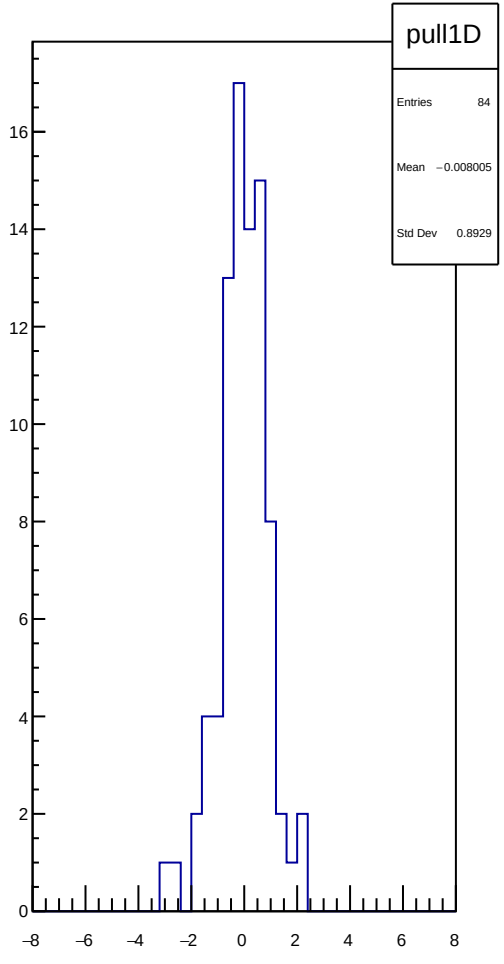

asym_sam_15_26_dd_rms vs run
χ^2 / ndf 1.055e+04 / 83
p0 491.5 ± 0.3869
600
550
500
450
400

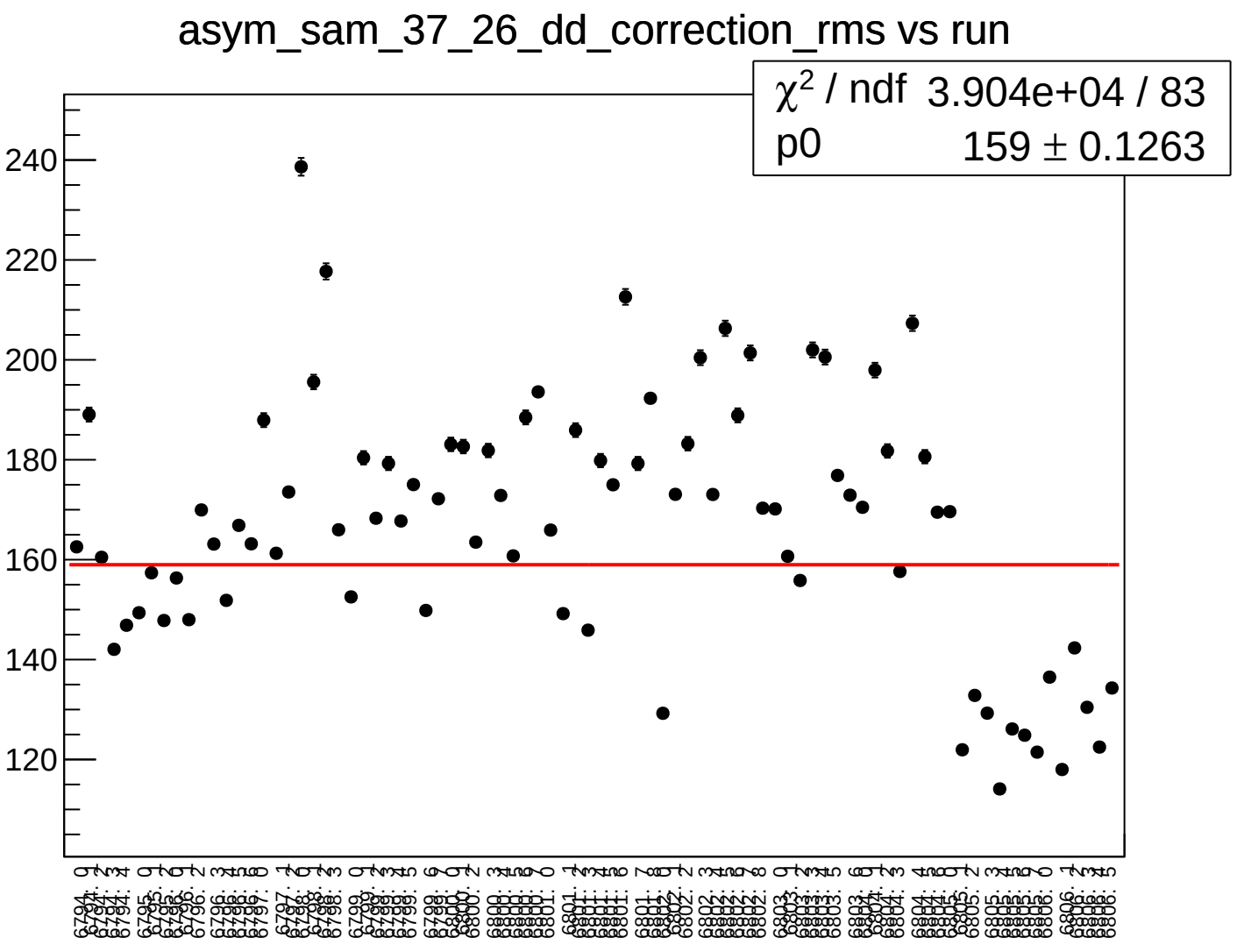

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 93.7 / 83
p0 −33.69 ± 53.31
pull
Entries 84
Mean 1719
Std Dev 1692

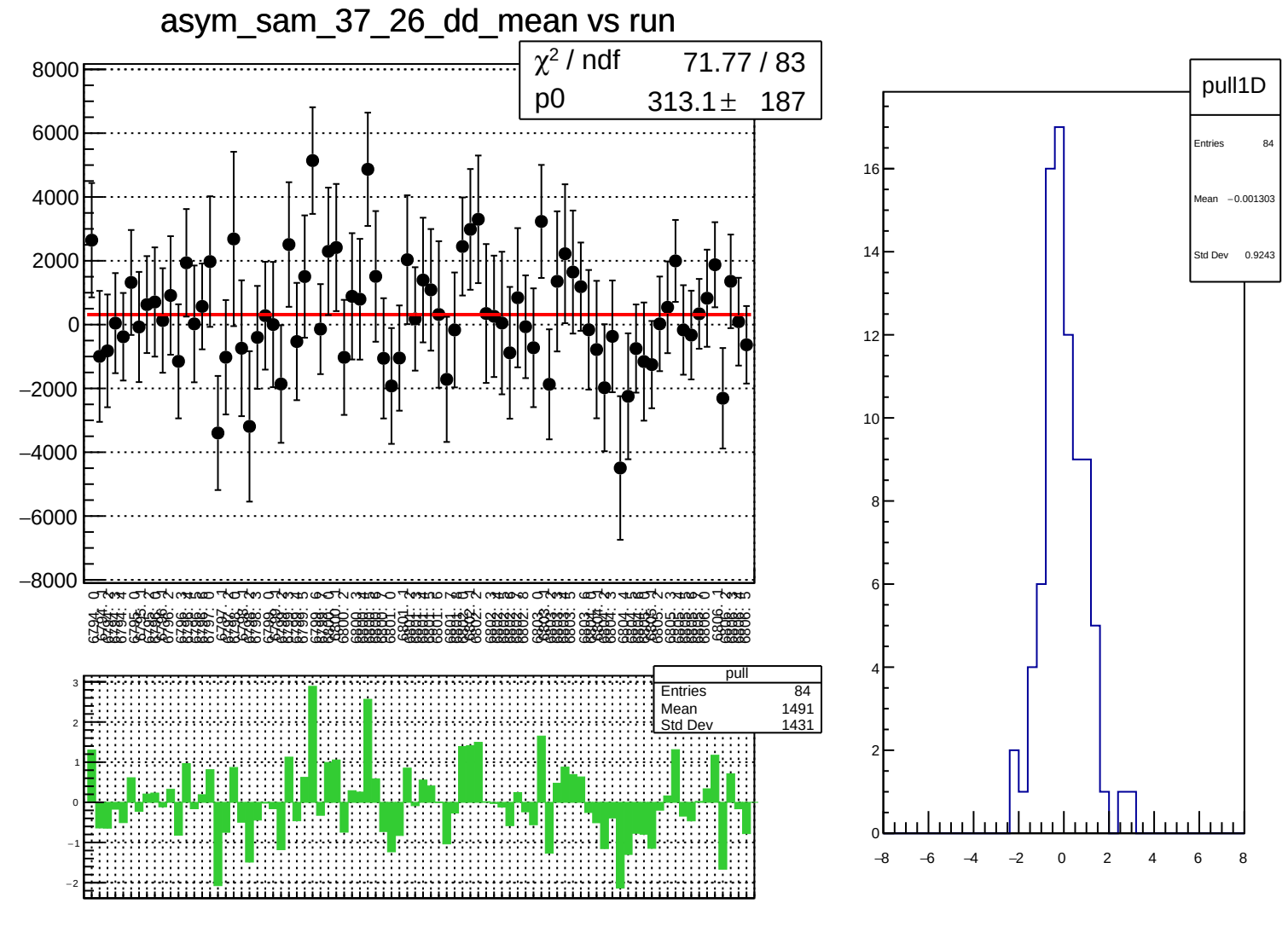

pull1D
Entries 84
Mean −0.0018
Std Dev 1.056

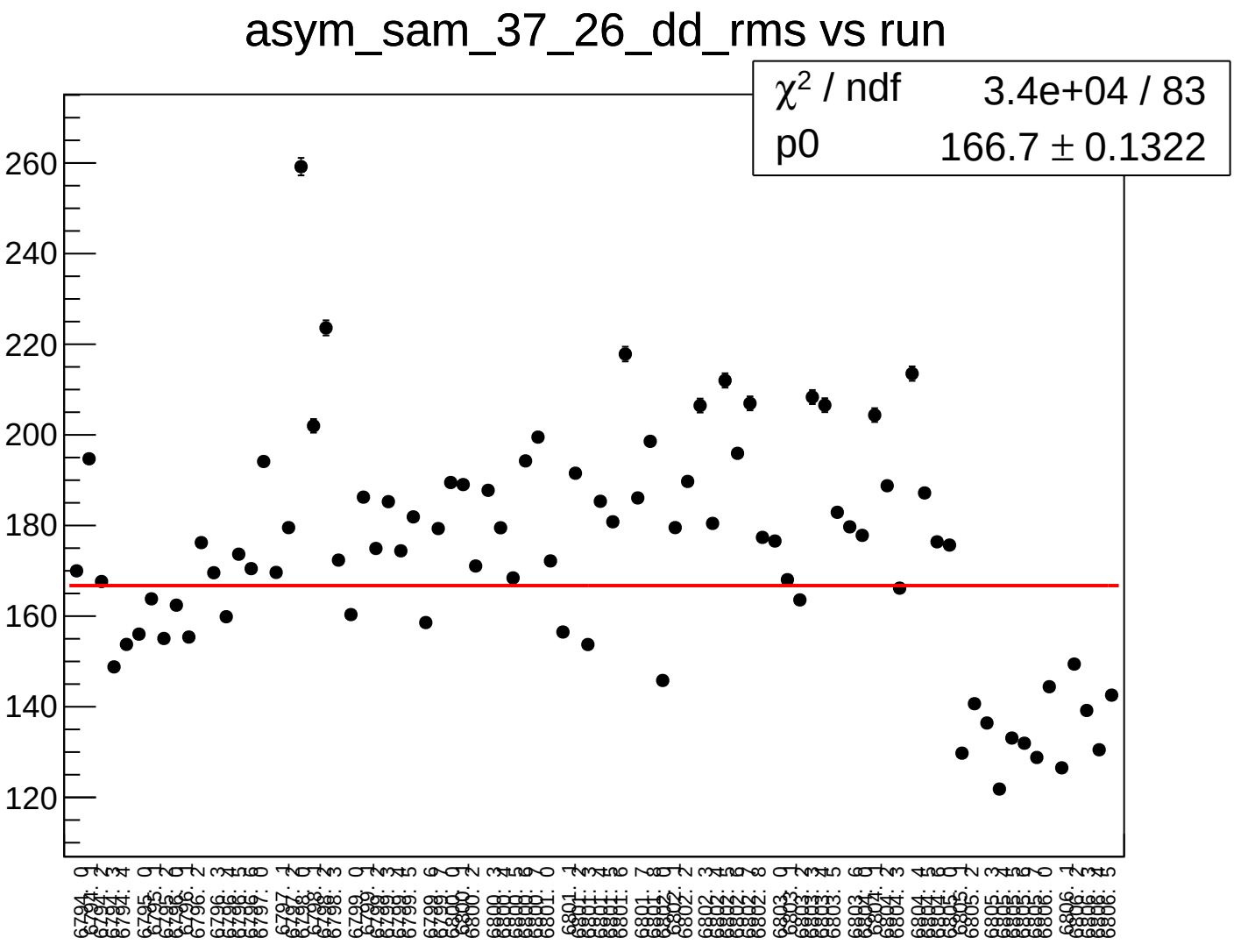

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.059e+04 / 83
p0 47.88 ± 0.03769
100
90
80
70
60
50
40

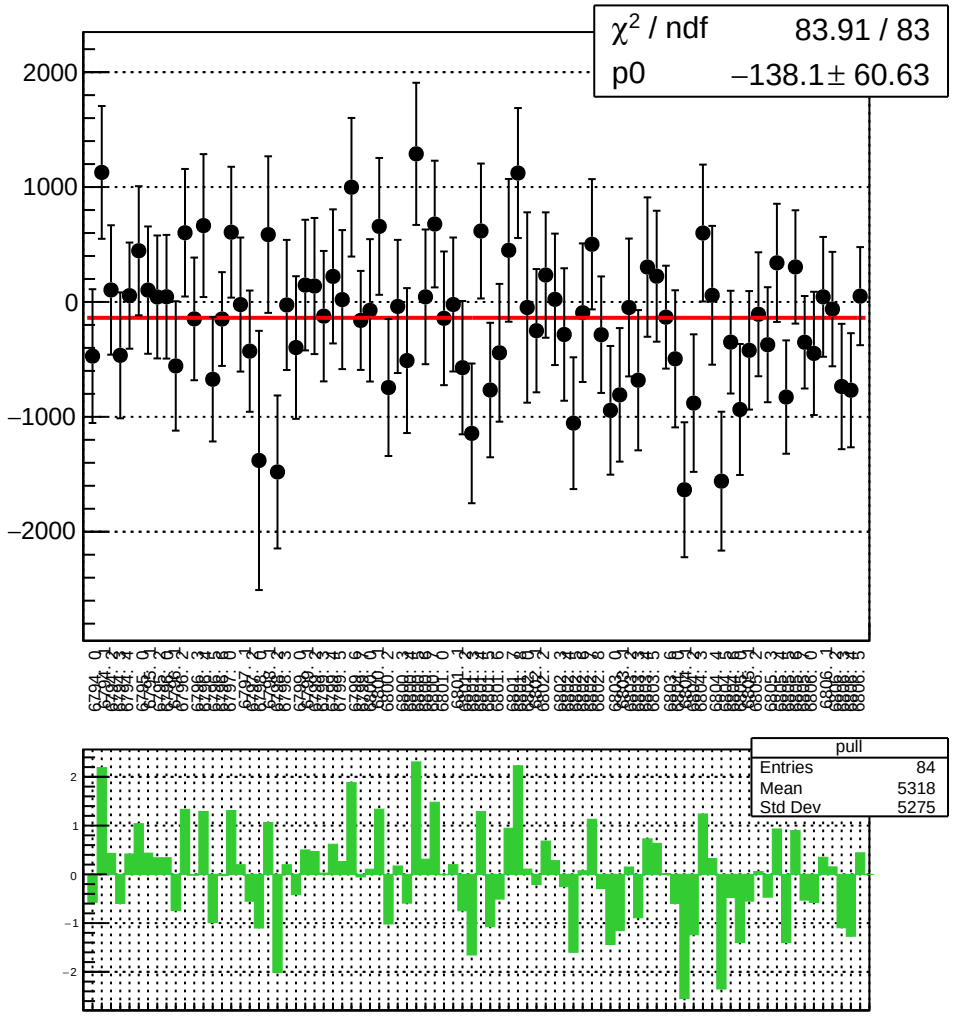

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 66.98 / 83
p0 −313.4 ± 178.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean −111.1
Std Dev 186.2
2
1
0
−1
−2
−3

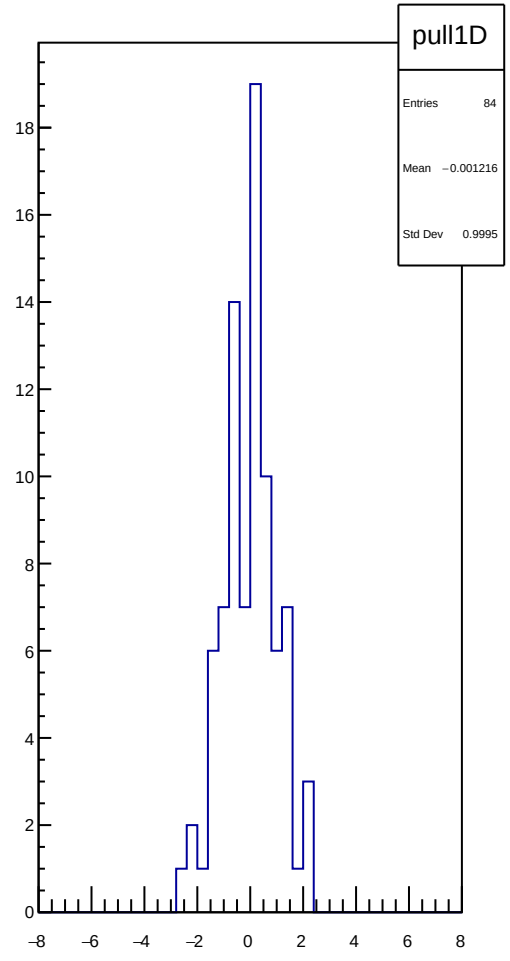

pull1D
Entries 84
Mean −0.008005
Std Dev 0.8929
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

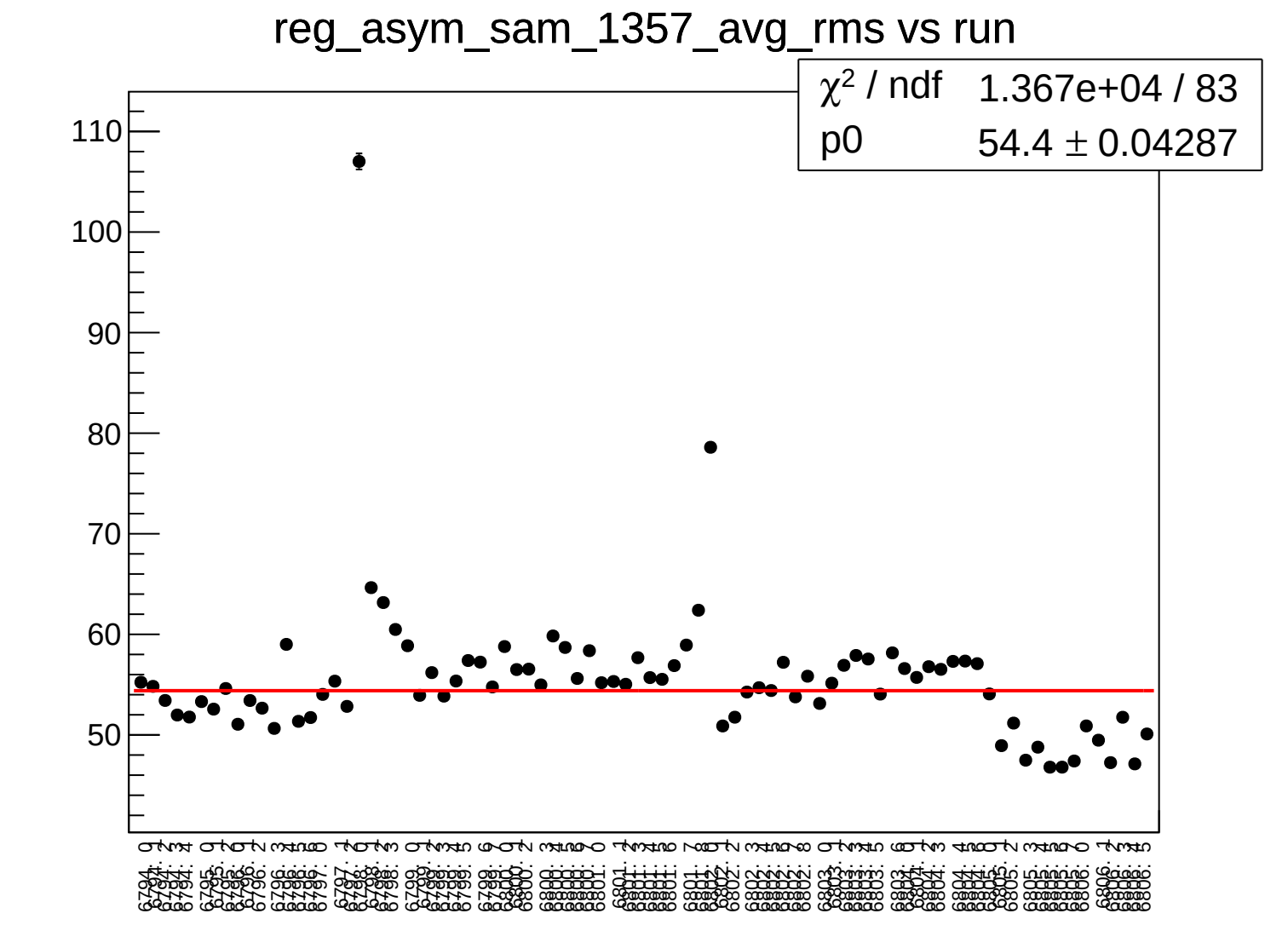

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 3.904e+04 / 83
p0 159 ± 0.1263
240
220
200
180
160
140
120

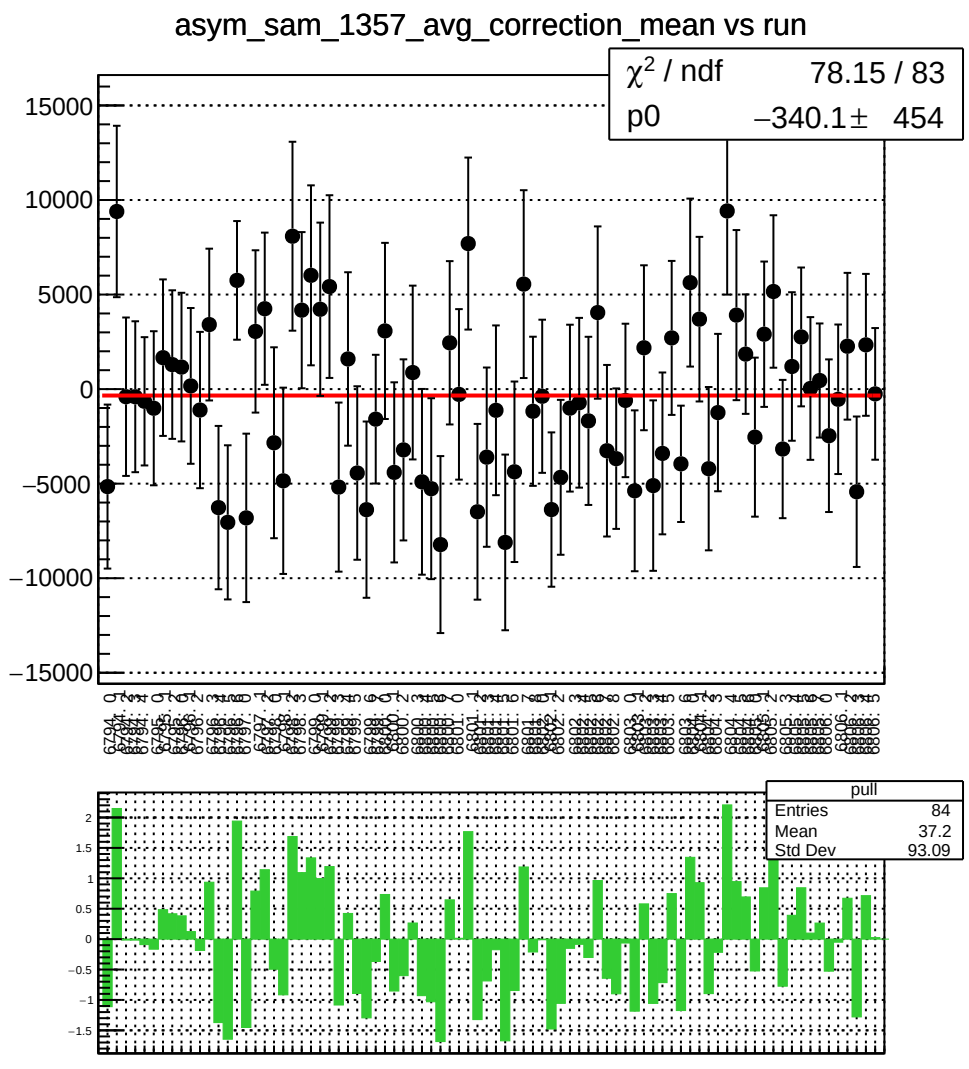

asym_sam_37_26_dd_mean vs run
χ² / ndf 71.77 / 83
p0 313.1 ± 187
pull
Entries 84
Mean 1491
Std Dev 1431
pull1D
Entries 84
Mean −0.001303
Std Dev 0.9243

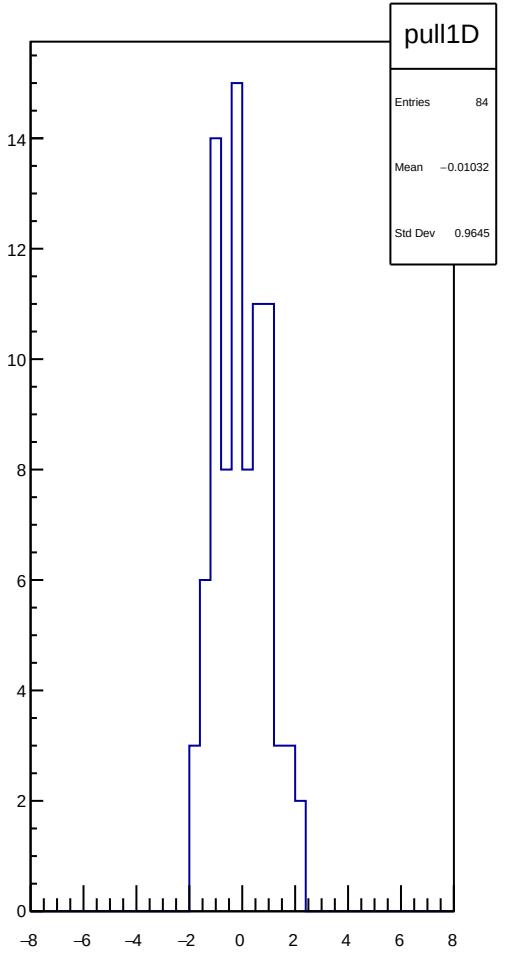

asym_sam_37_26_dd_rms vs run
χ² / ndf 3.4e+04 / 83
p0 166.7 ± 0.1322
260
240
220
200
180
160
140
120

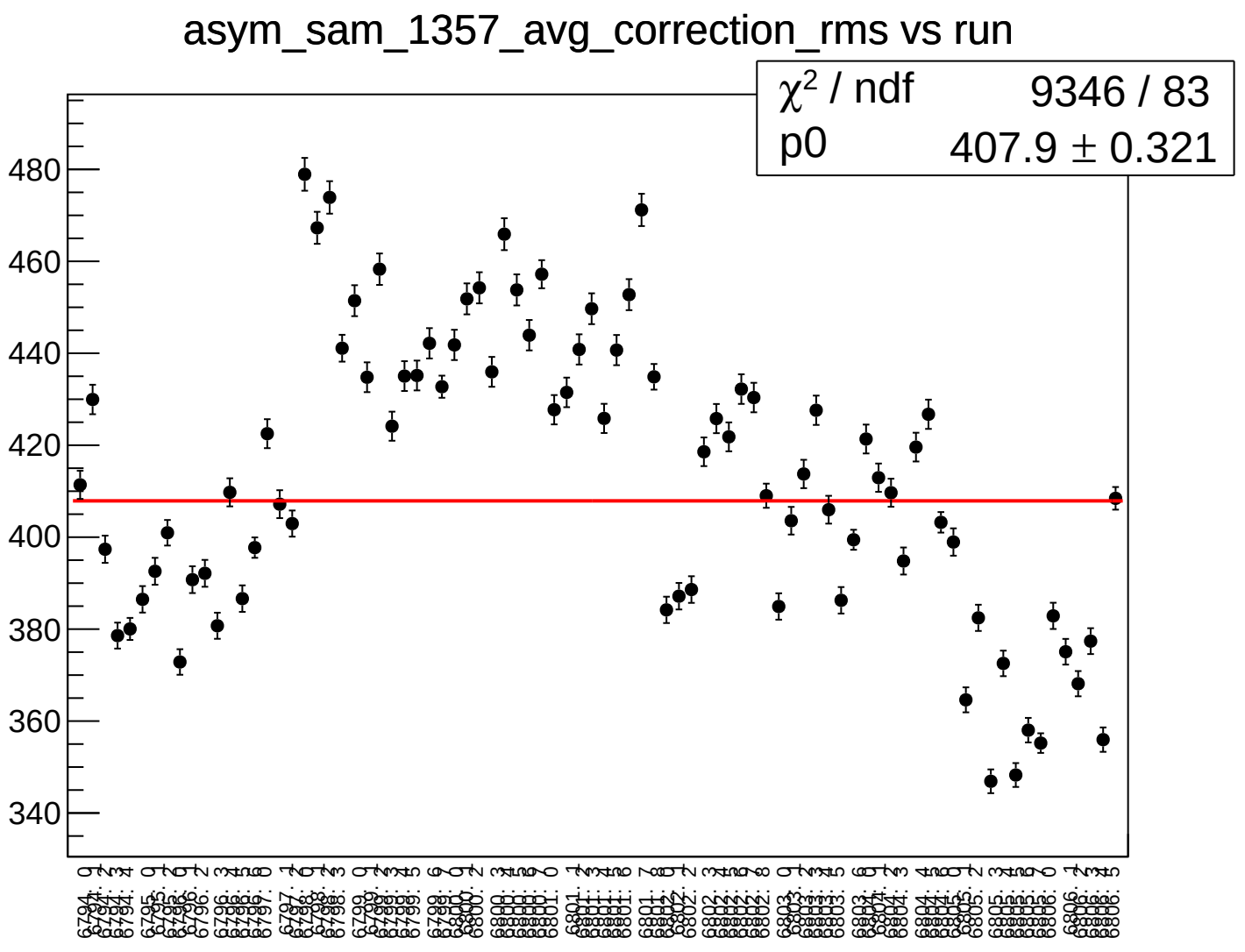

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 83.91 / 83
p0 −138.1± 60.63
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 5318
Std Dev 5275
2
1
0
−1
−2

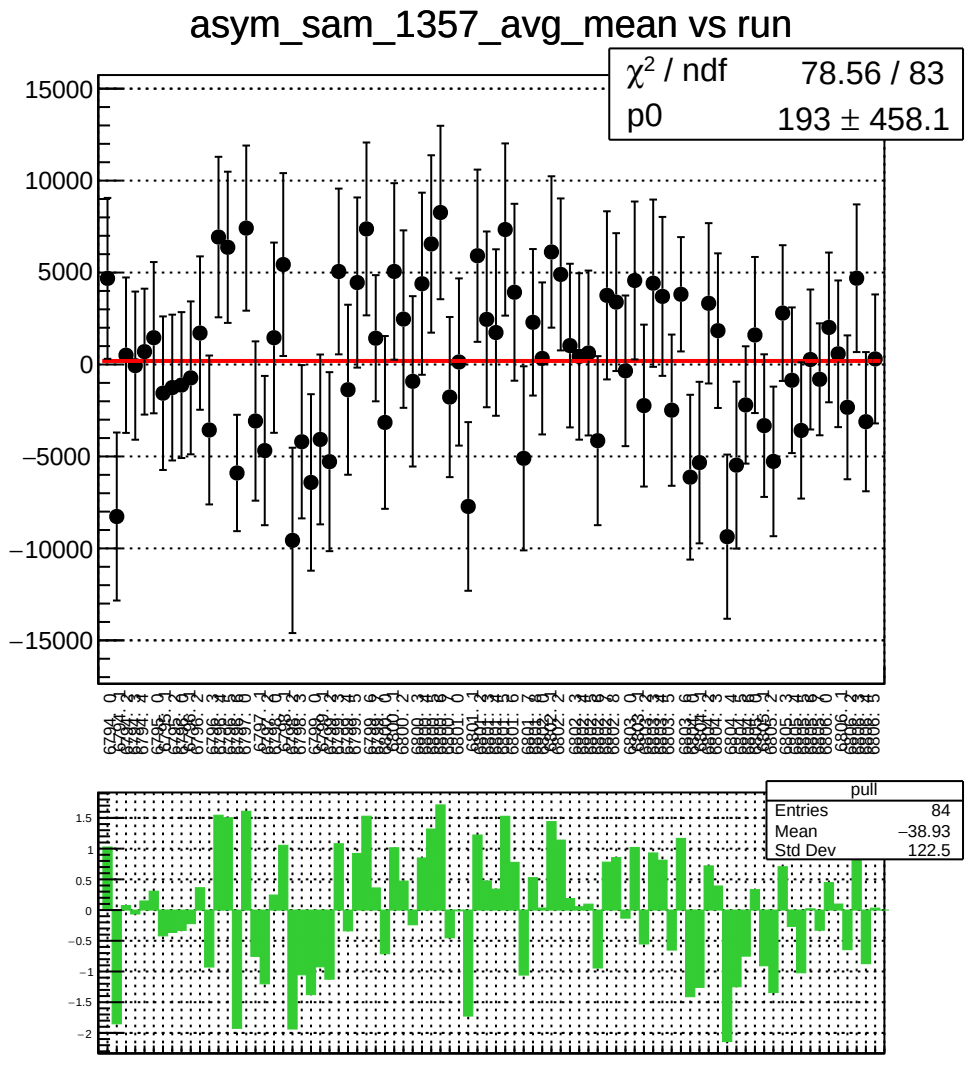

pull1D
Entries 84
Mean −0.001216
Std Dev 0.9995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

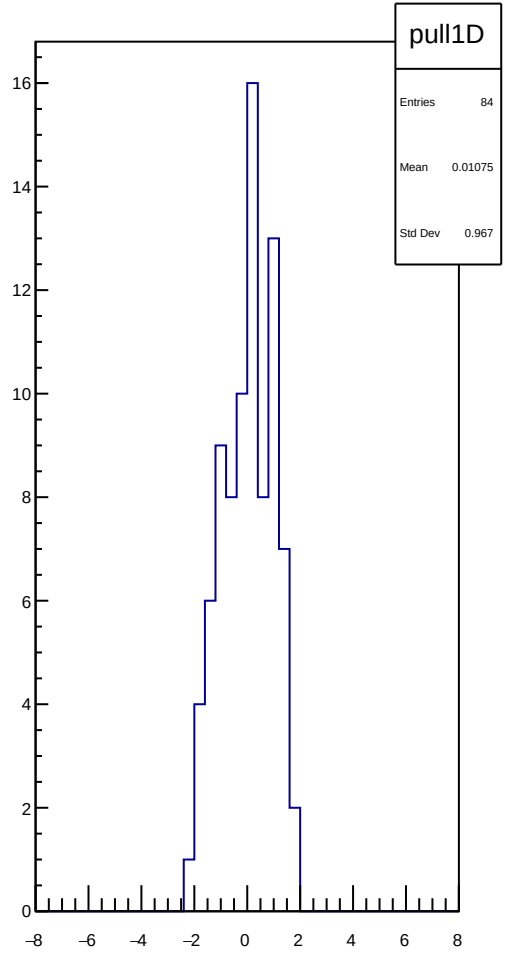

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.367e+04 / 83
p0 54.4 ± 0.04287
110
100
90
80
70
60
50

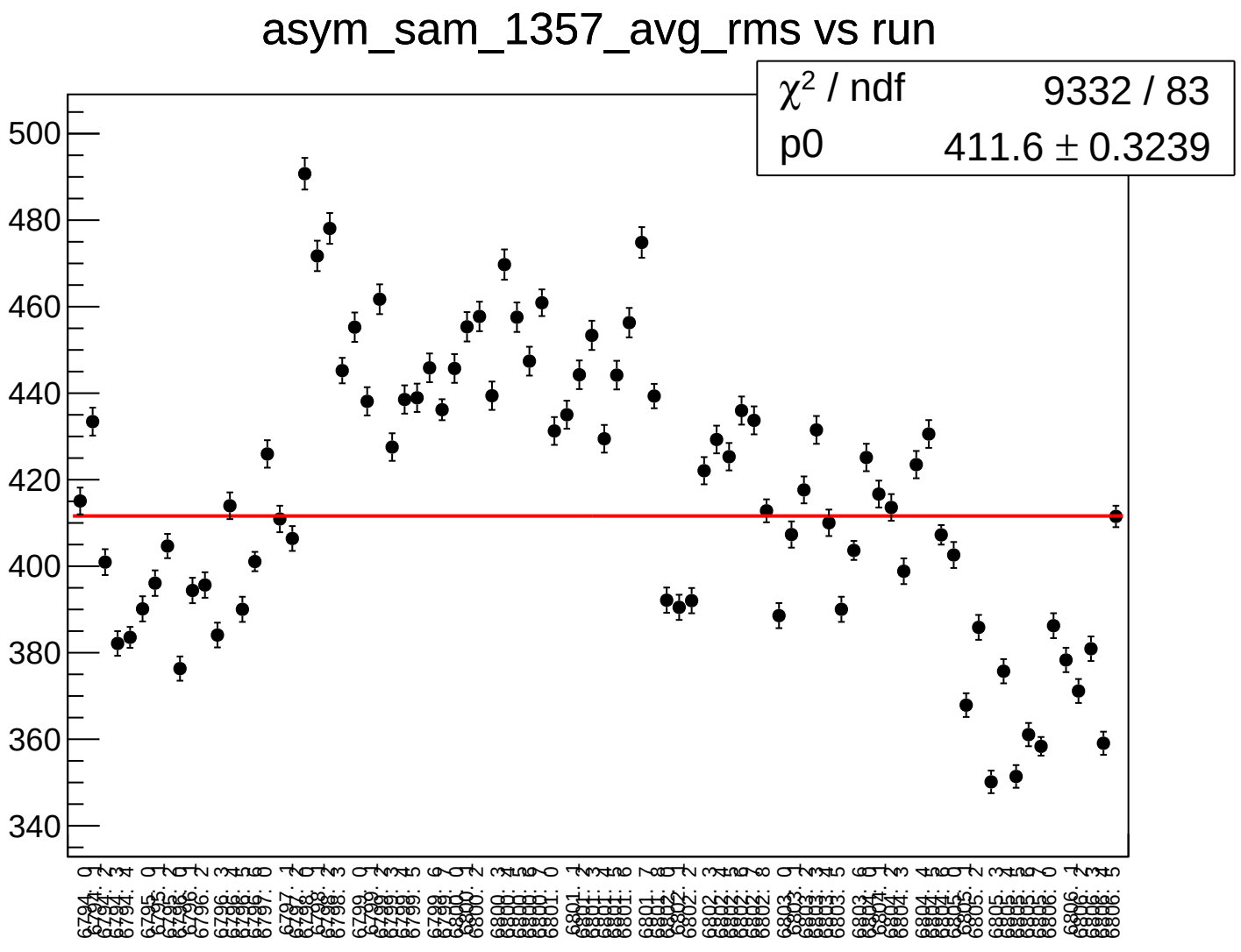

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 78.15 / 83
p0 −340.1± 454
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 37.2
Std Dev 93.09
2
1.5
1
0.5
0
−0.5
−1
−1.5

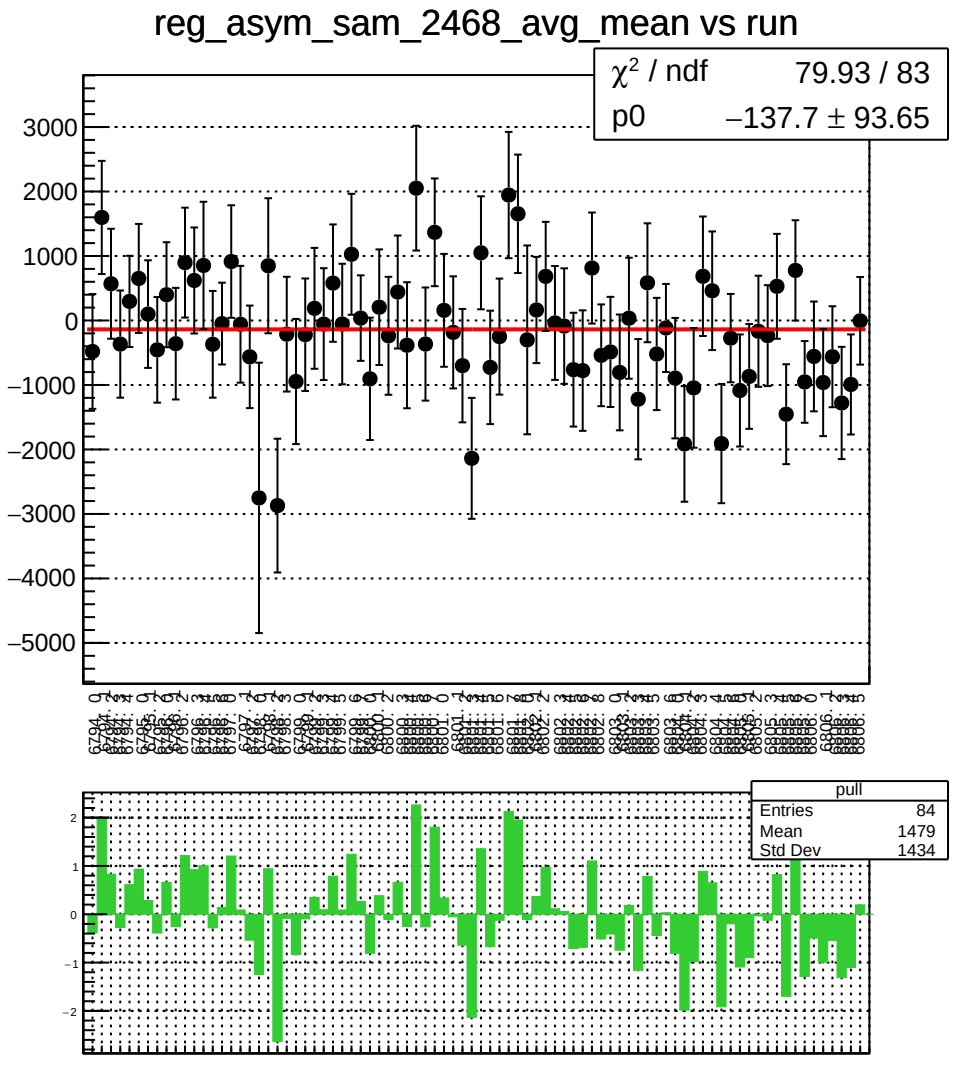

pull1D
Entries 84
Mean −0.01032
Std Dev 0.9645
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

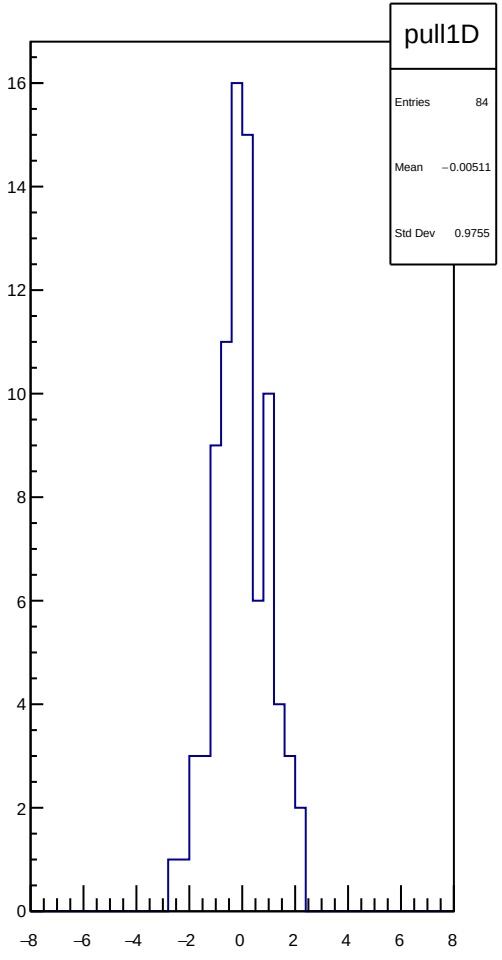

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 9346 / 83
p0 407.9 ± 0.321
480
460
440
420
400
380
360
340

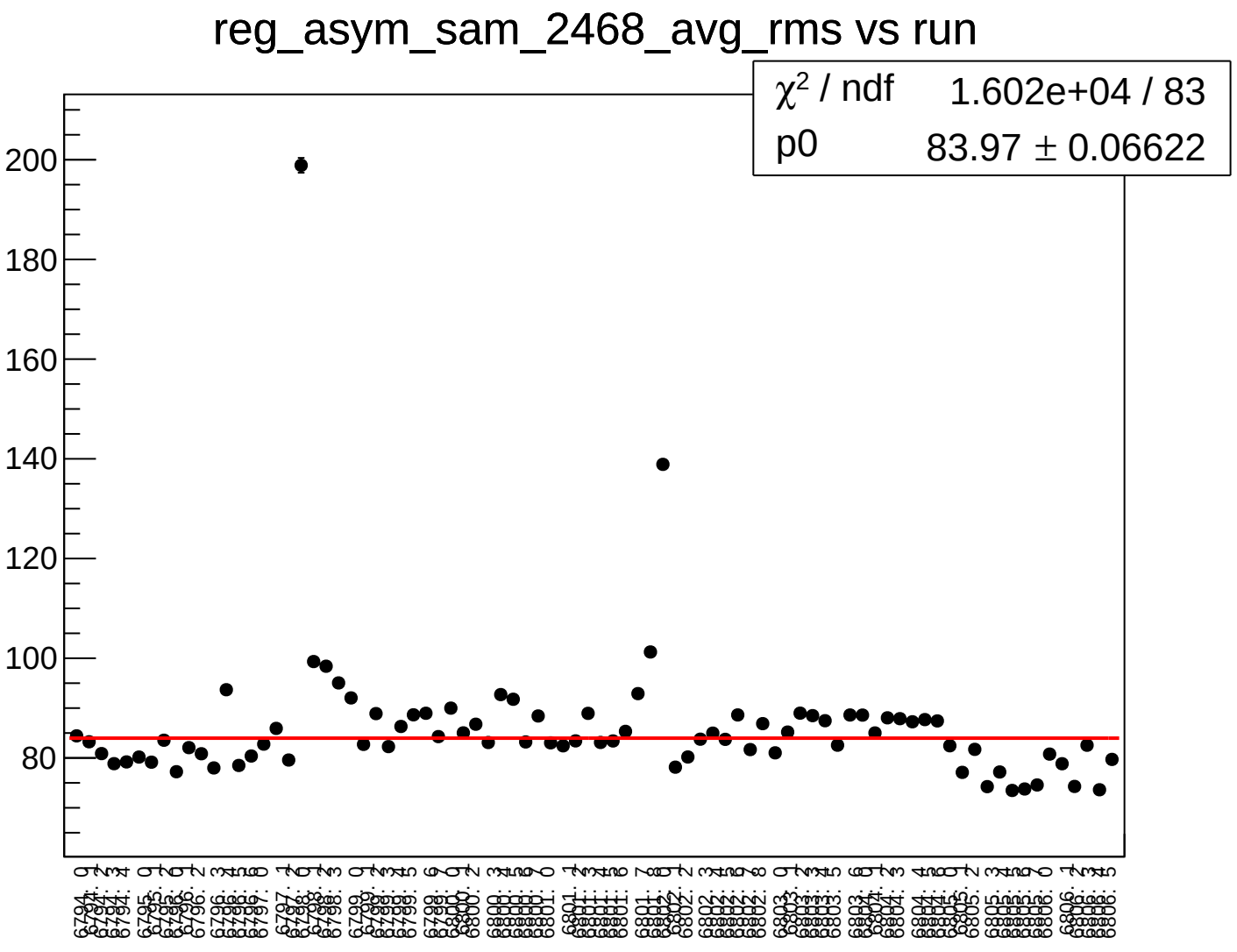

asym_sam_1357_avg_mean vs run
χ² / ndf 78.56 / 83
p0 193 ± 458.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −38.93
Std Dev 122.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

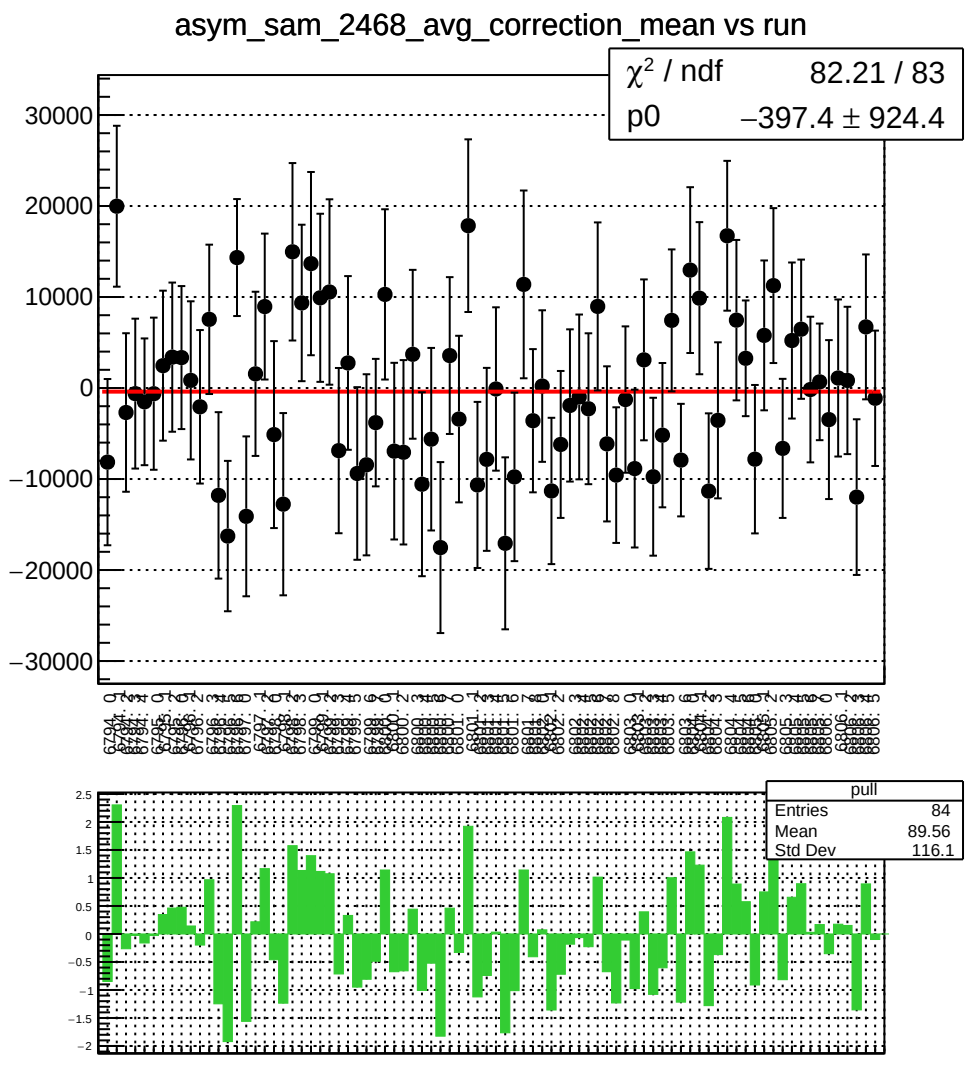

pull1D
Entries 84
Mean 0.01075
Std Dev 0.967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

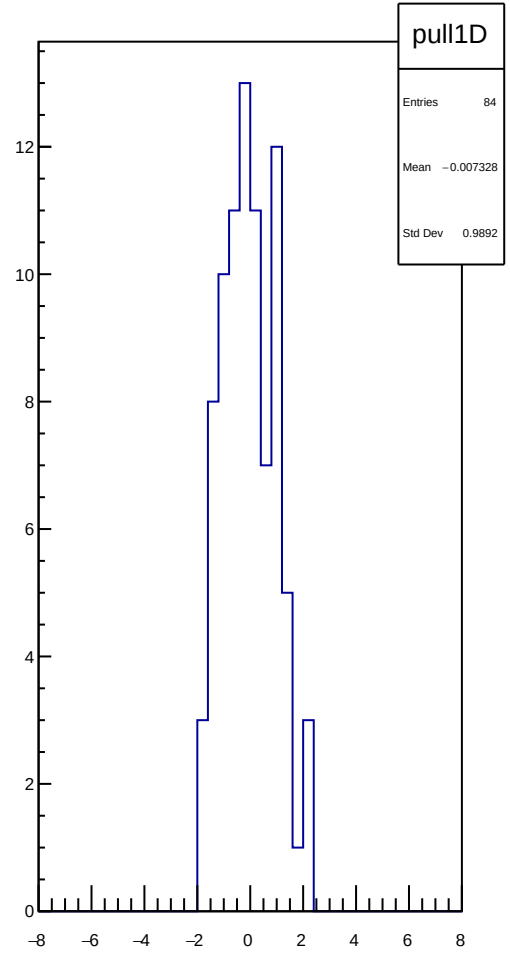

asym_sam_1357_avg_rms vs run
χ² / ndf 9332 / 83
p0 411.6 ± 0.3239
500
480
460
440
420
400
380
360
340

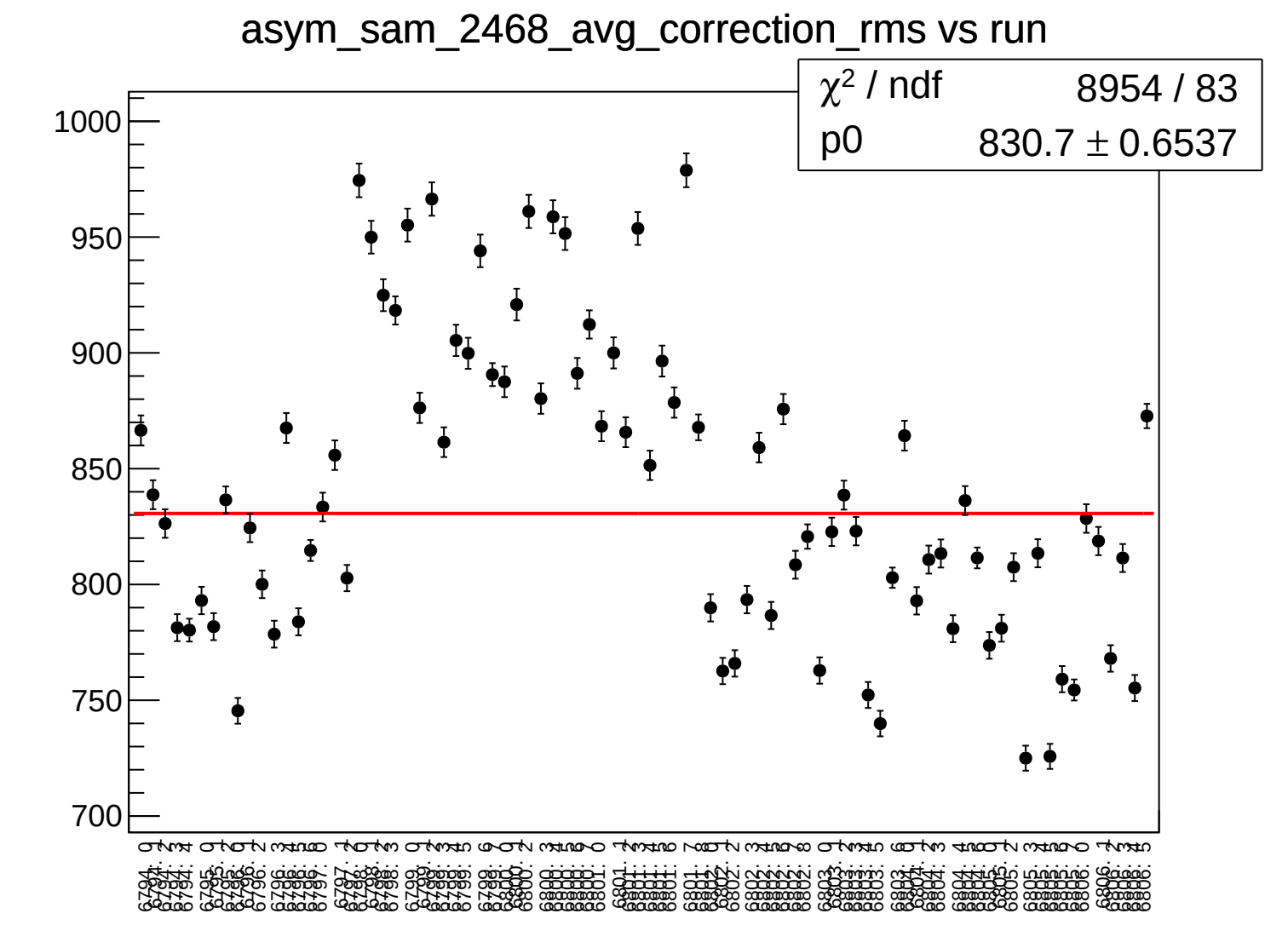

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 79.93 / 83
p0 −137.7 ± 93.65
pull
Entries 84
Mean 1479
Std Dev 1434

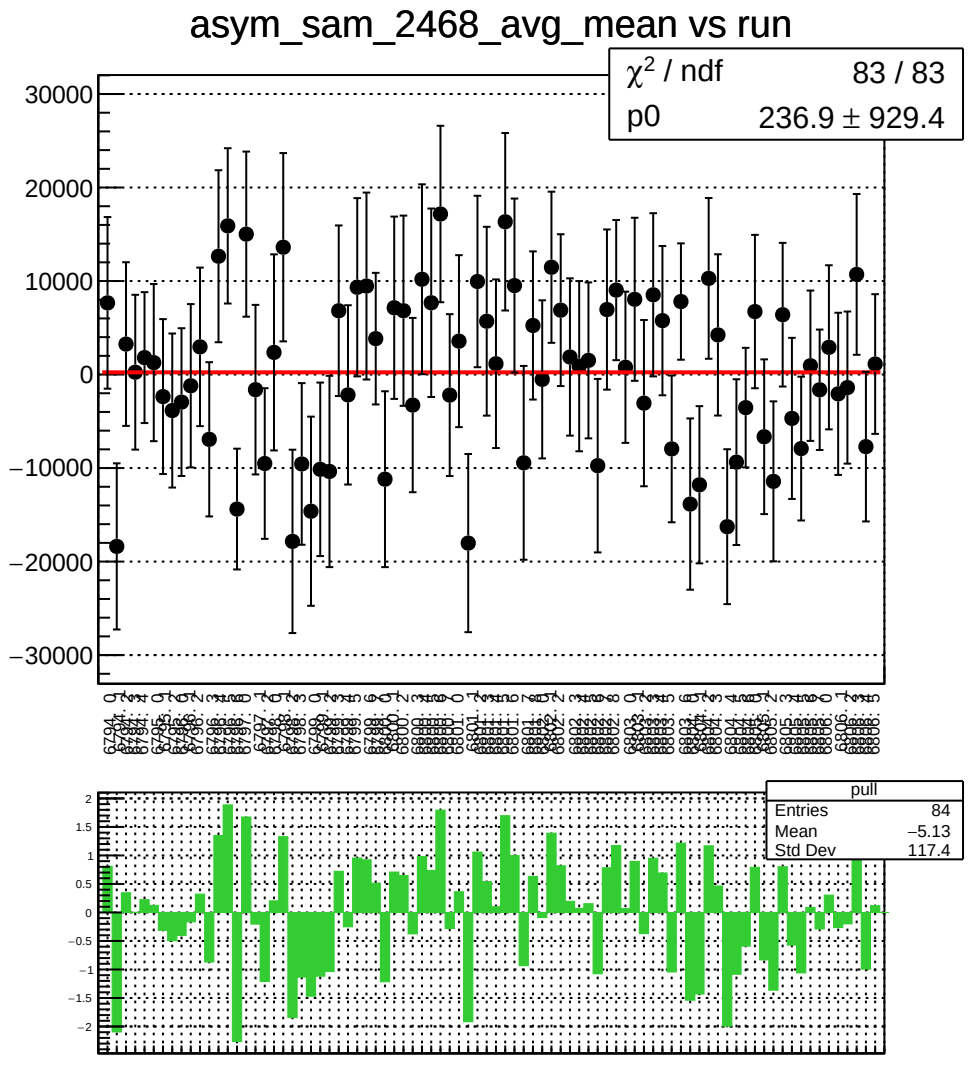

pull1D
Entries 84
Mean −0.00511
Std Dev 0.9755

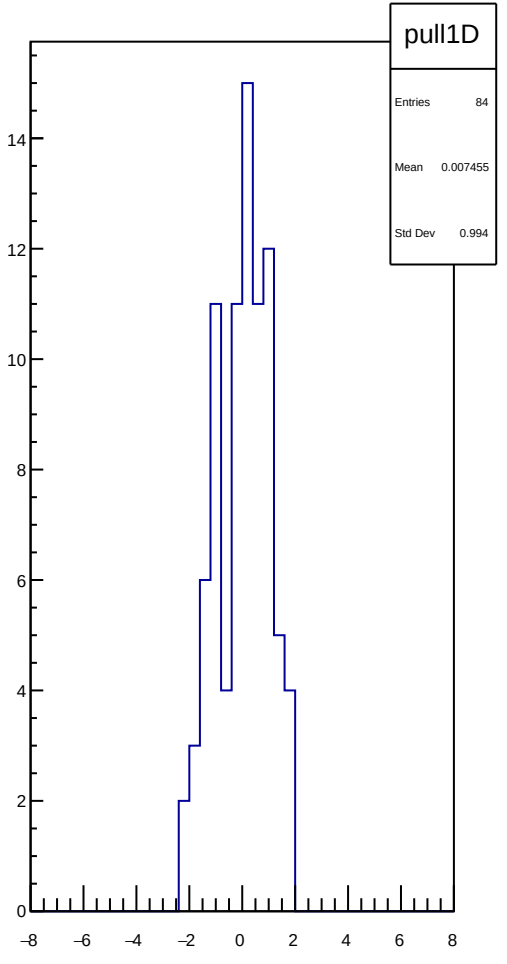

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.602e+04 / 83
p0 83.97 ± 0.06622
200
180
160
140
120
100
80

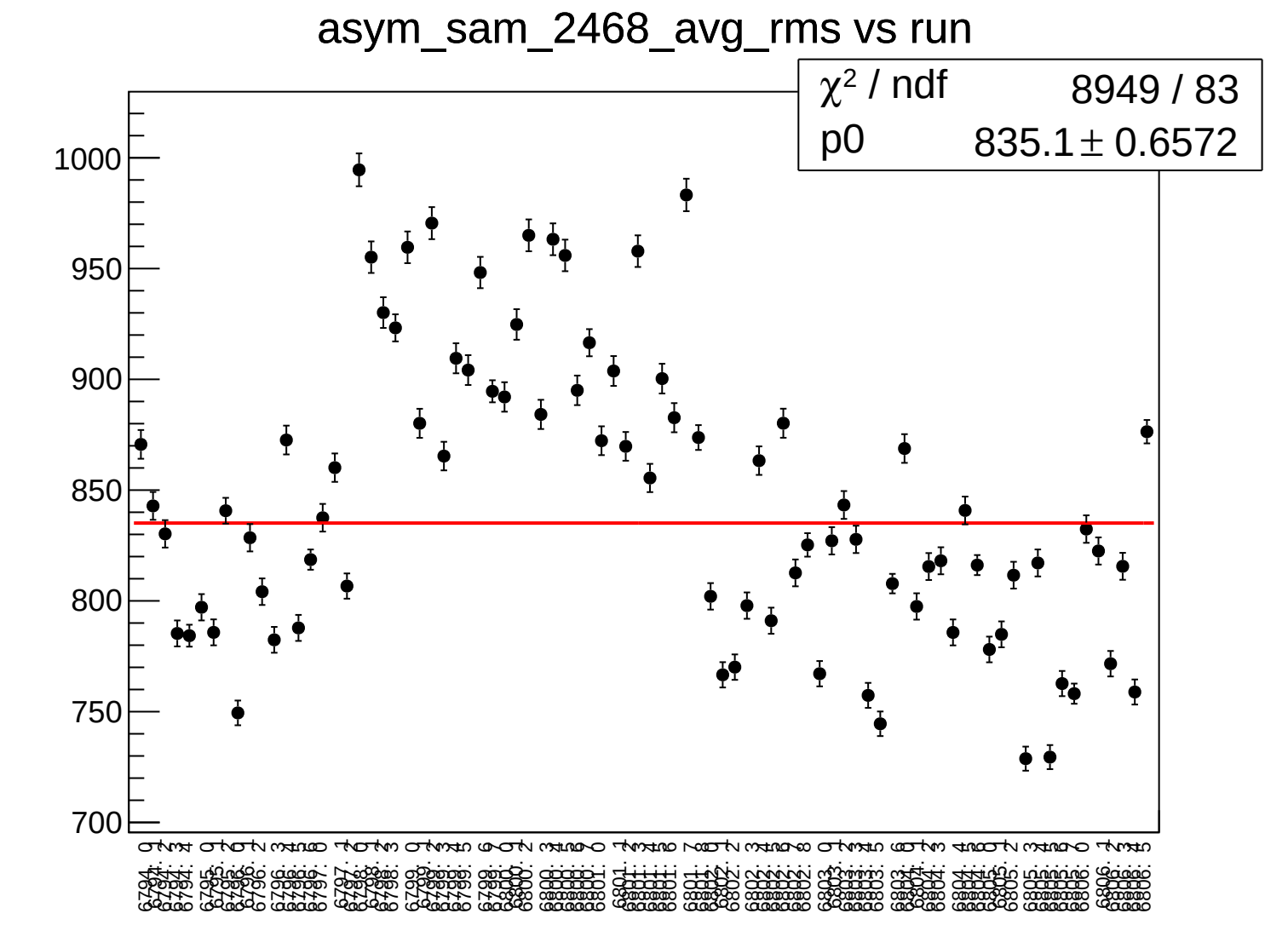

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 82.21 / 83
p0 −397.4 ± 924.4
pull
Entries 84
Mean 89.56
Std Dev 116.1

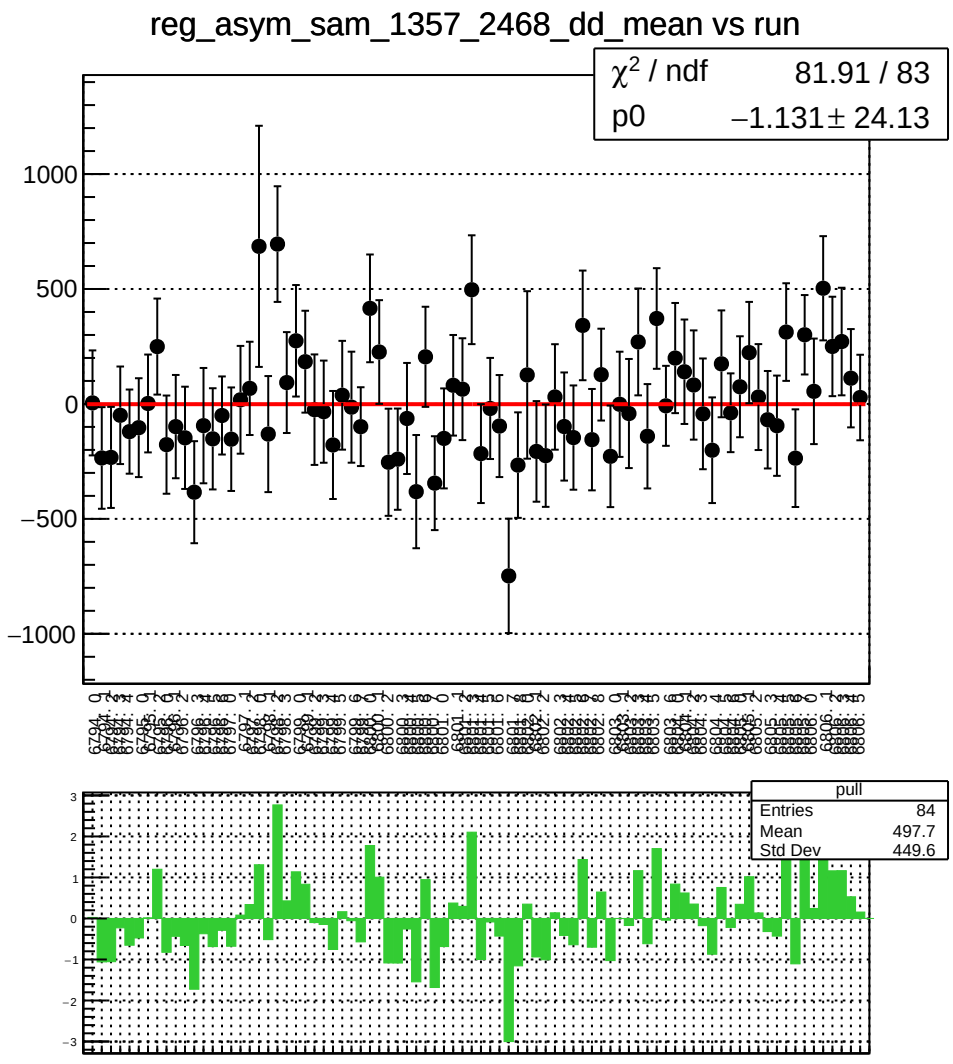

pull1D
Entries 84
Mean −0.007328
Std Dev 0.9892

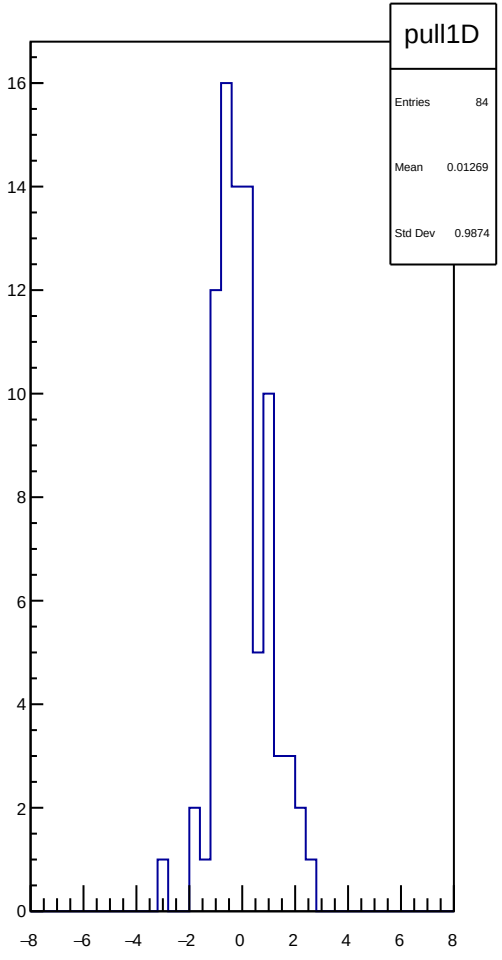

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 8954 / 83
p0 830.7 ± 0.6537
1000
950
900
850
800
750
700

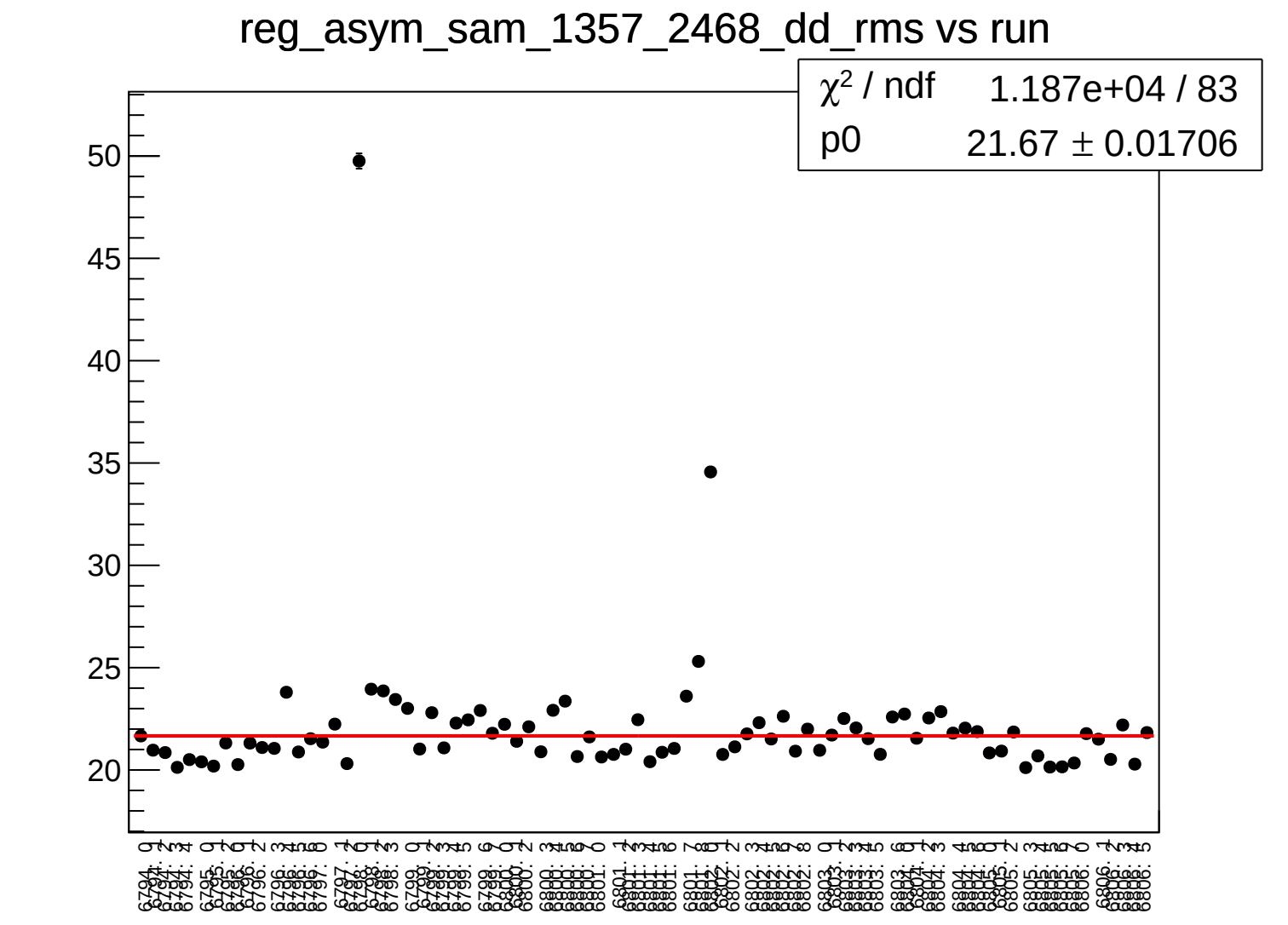

asym_sam_2468_avg_mean vs run
χ² / ndf 83 / 83
p0 236.9 ± 929.4
pull
Entries 84
Mean −5.13
Std Dev 117.4

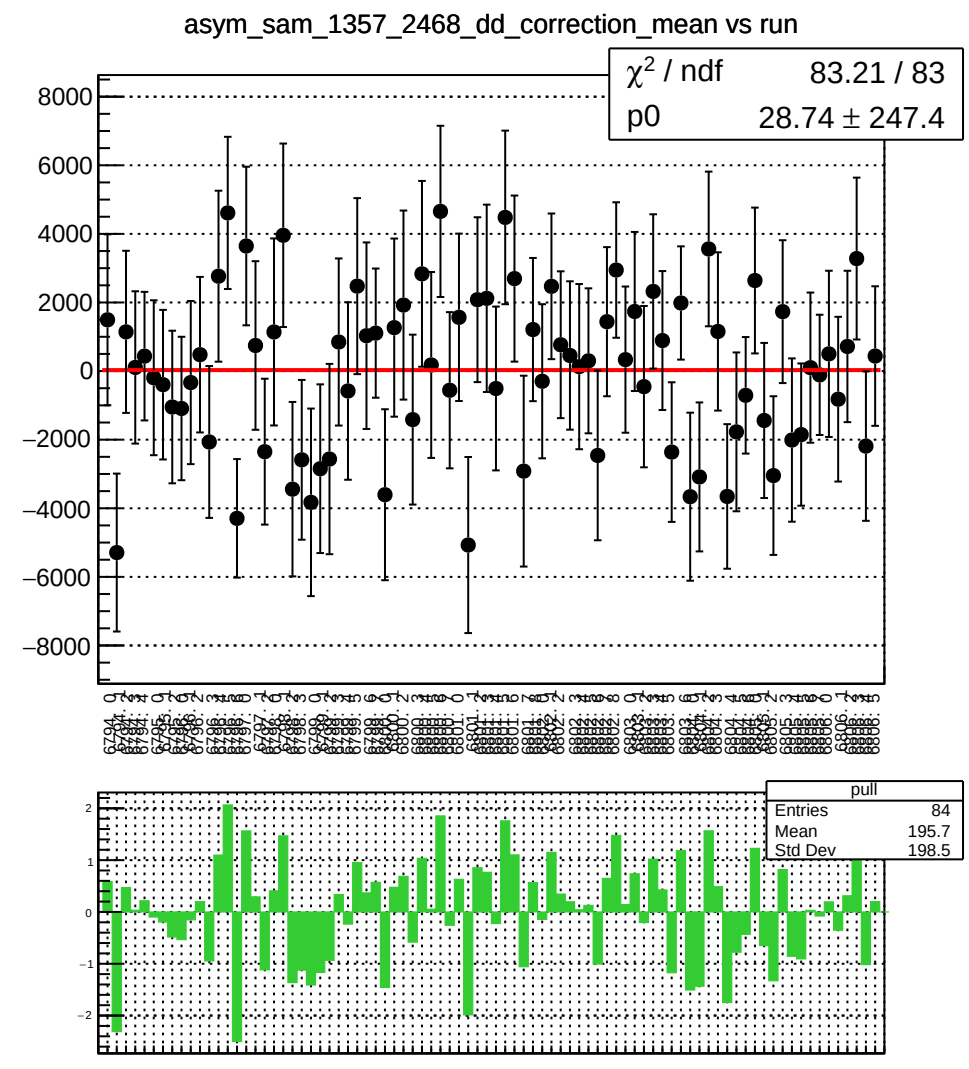

pull1D
Entries 84
Mean 0.007455
Std Dev 0.994

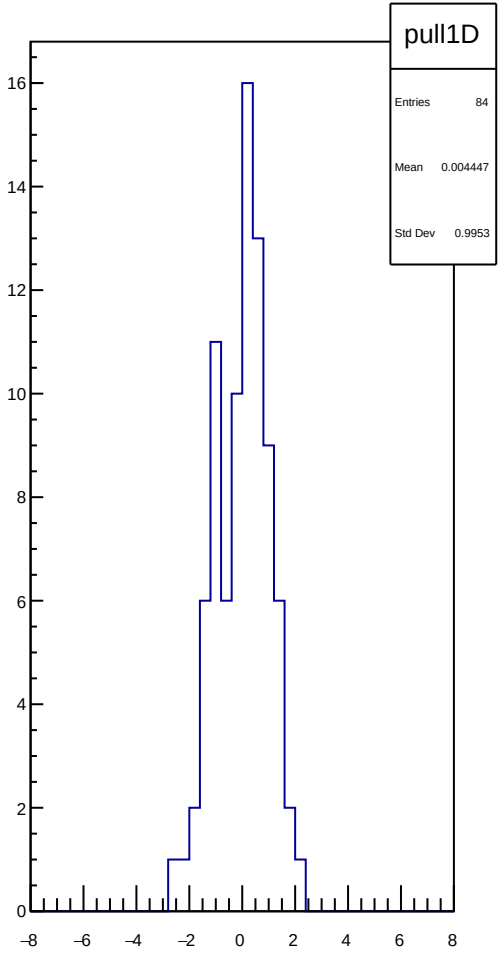

asym_sam_2468_avg_rms vs run
χ² / ndf 8949 / 83
p0 835.1 ± 0.6572
1000
950
900
850
800
750
700

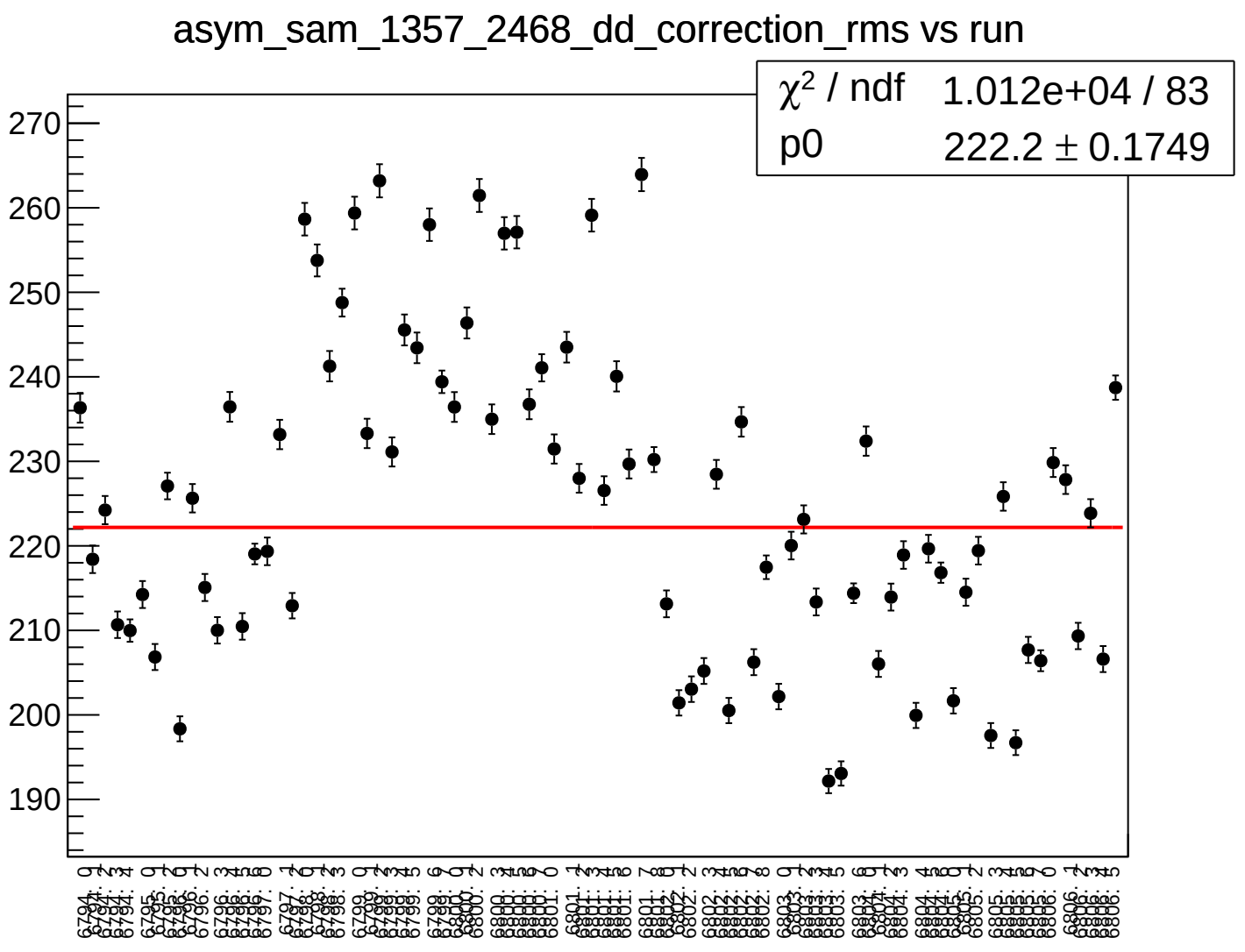

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 81.91 / 83
p0 −1.131 ± 24.13
1000
500
0
−500
−1000
pull
Entries 84
Mean 497.7
Std Dev 449.6
3
2
1
0
−1
−2
−3

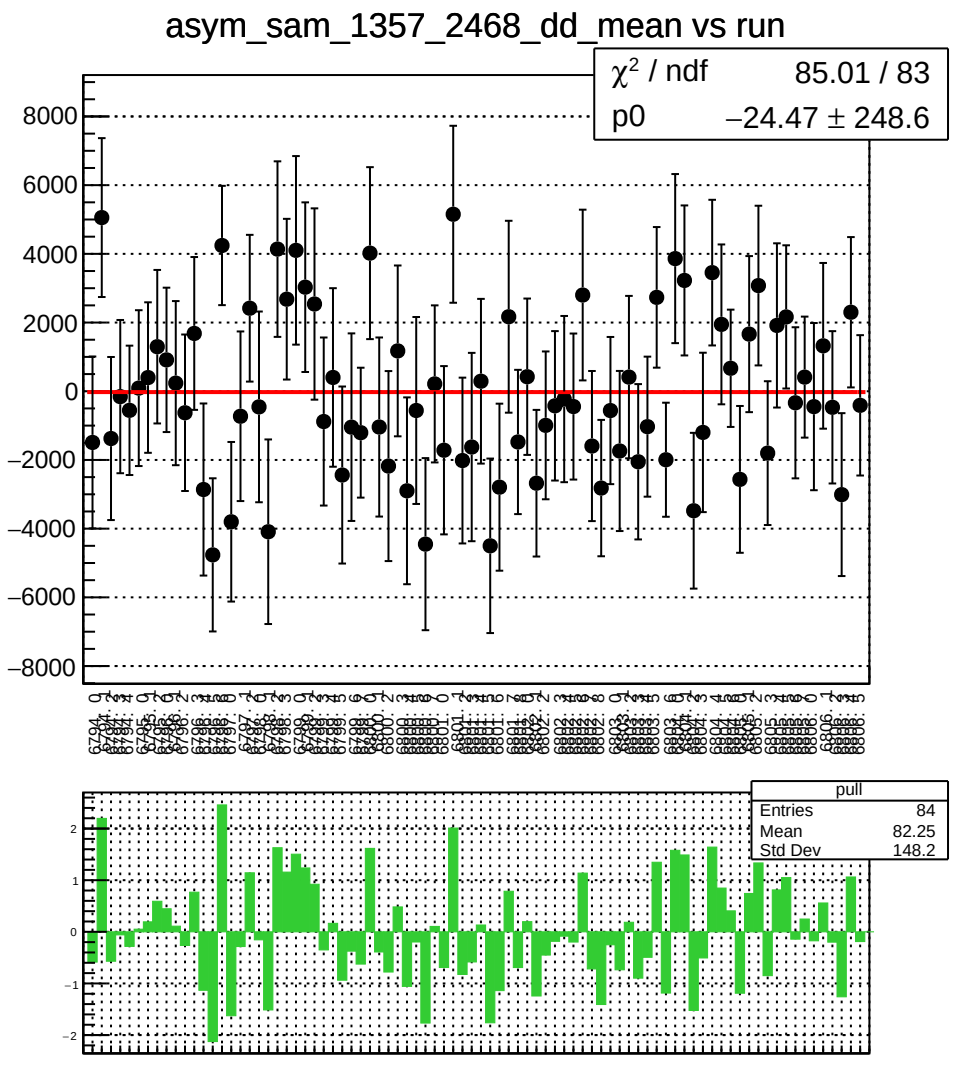

pull1D
Entries 84
Mean 0.01269
Std Dev 0.9874
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

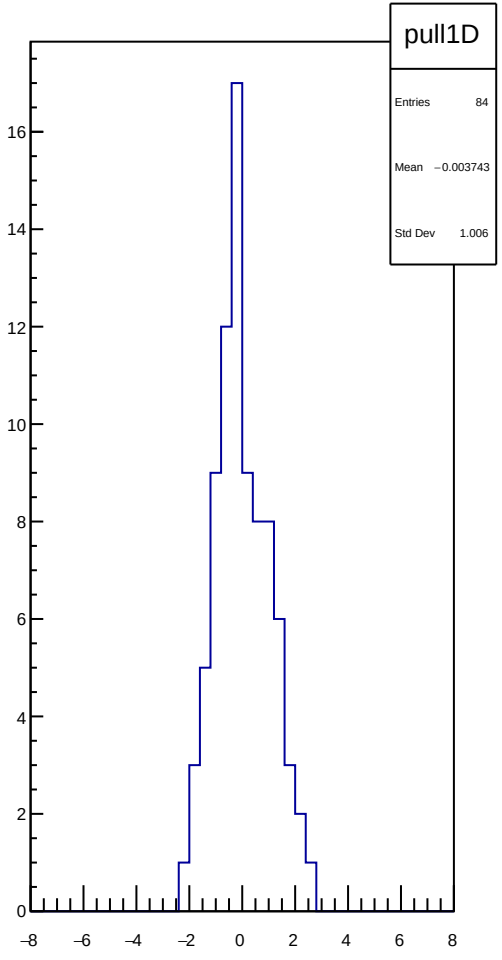

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.187e+04 / 83
p0 21.67 ± 0.01706
50
45
40
35
30
25
20

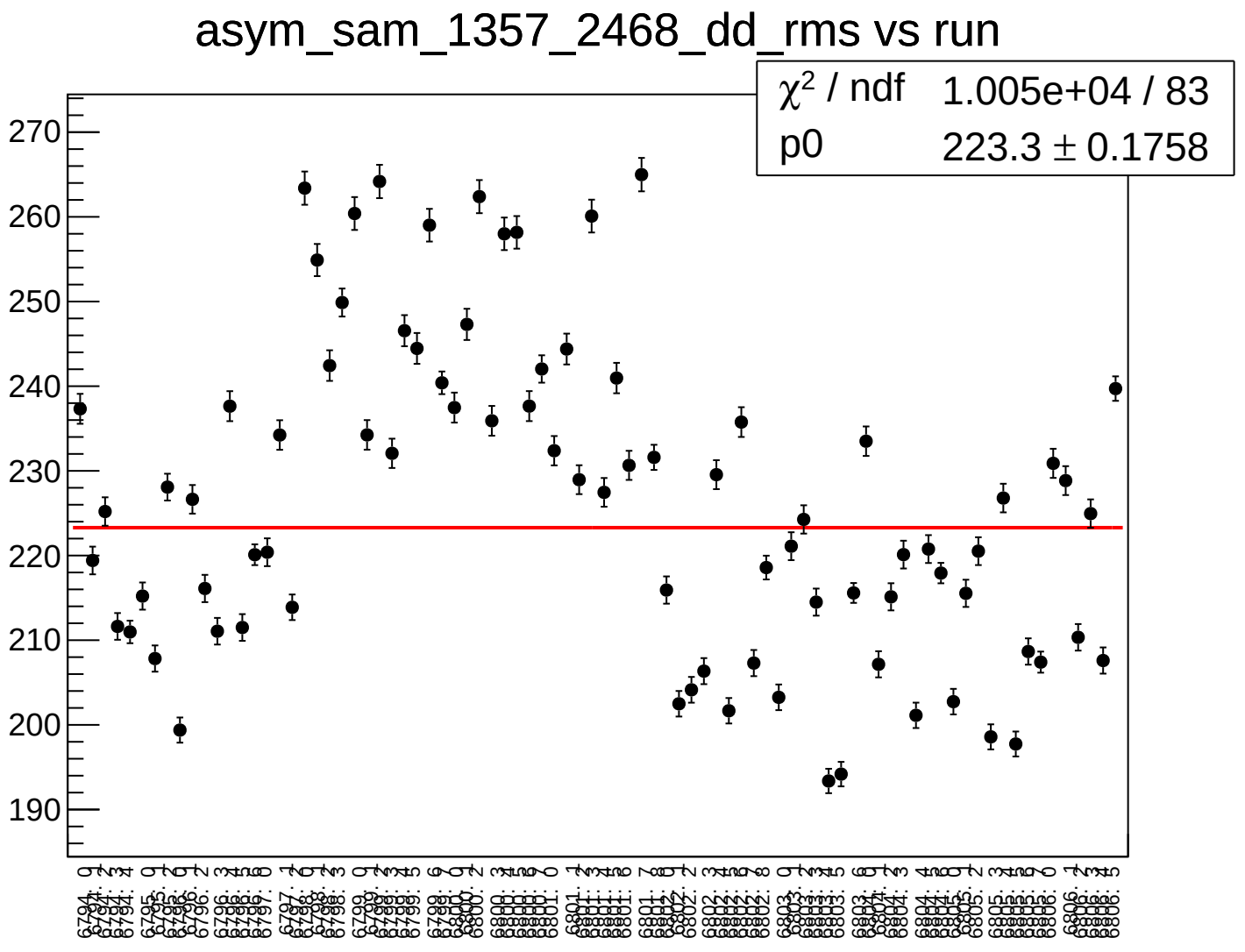

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 83.21 / 83
p0 28.74 ± 247.4
pull
Entries 84
Mean 195.7
Std Dev 198.5

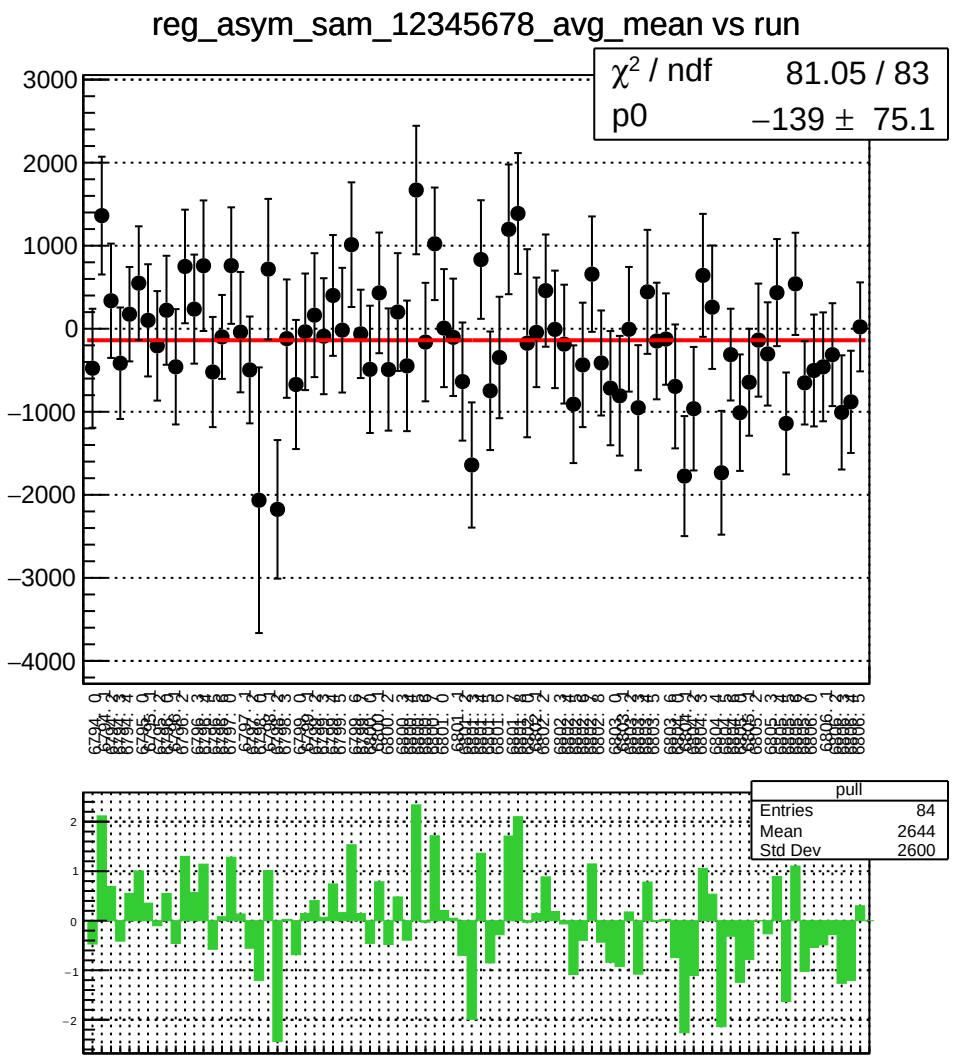

pull1D
Entries 84
Mean 0.004447
Std Dev 0.9953

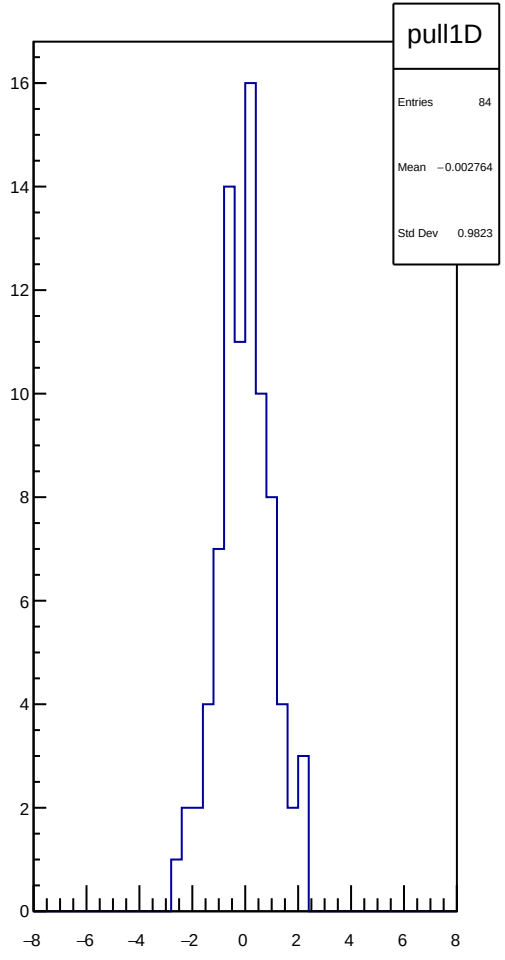

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1.012e+04 / 83
p0 222.2 ± 0.1749
270
260
250
240
230
220
210
200
190

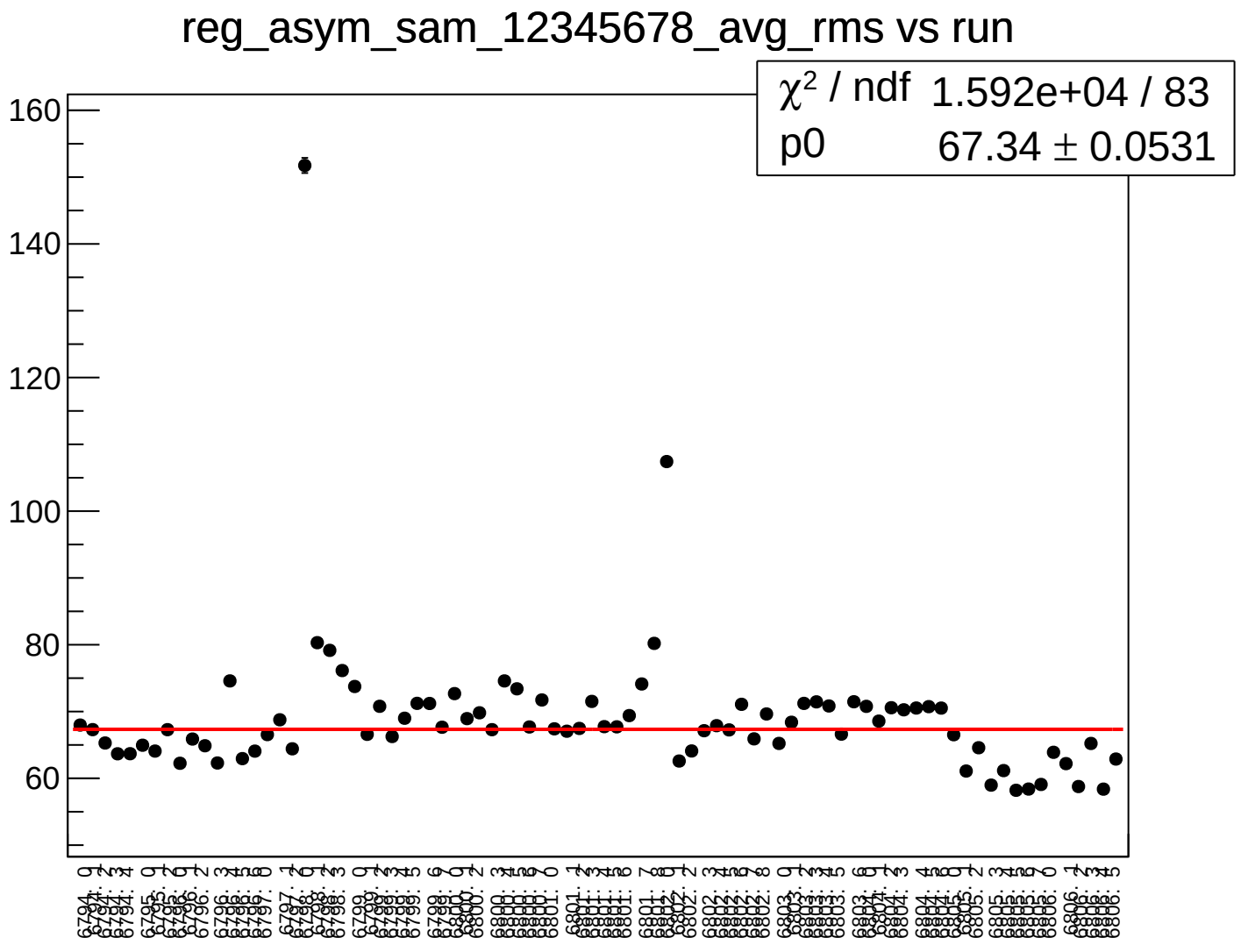

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 85.01 / 83
p0 −24.47 ± 248.6
pull
Entries 84
Mean 82.25
Std Dev 148.2

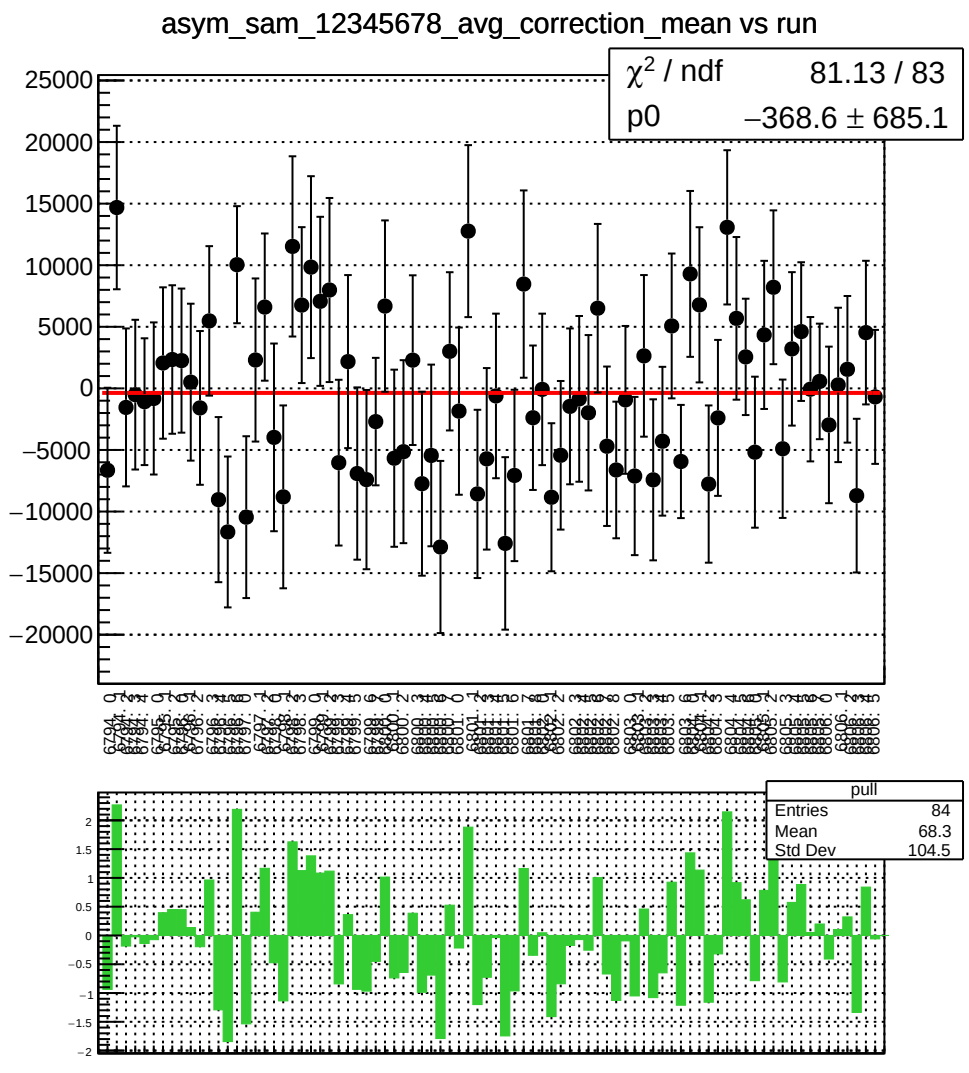

pull1D
Entries 84
Mean −0.003743
Std Dev 1.006

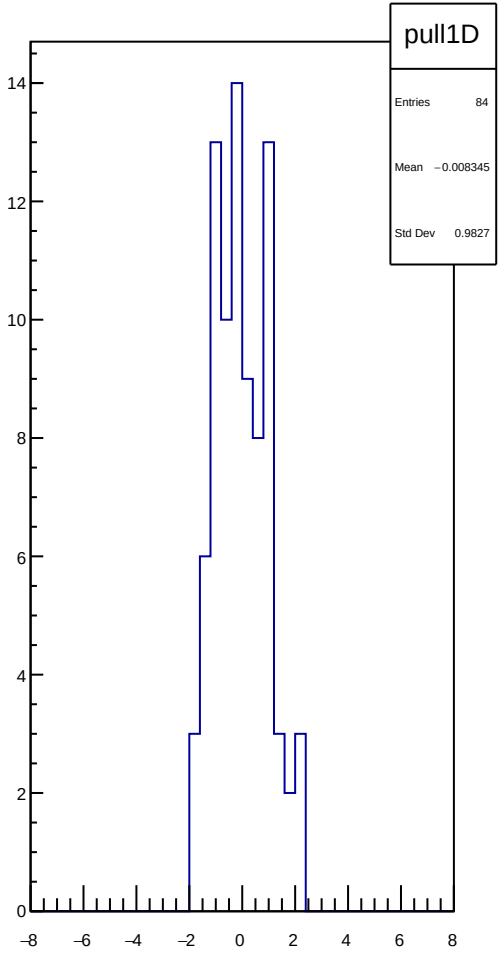

asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 1.005e+04 / 83
p0 223.3 ± 0.1758
270
260
250
240
230
220
210
200
190

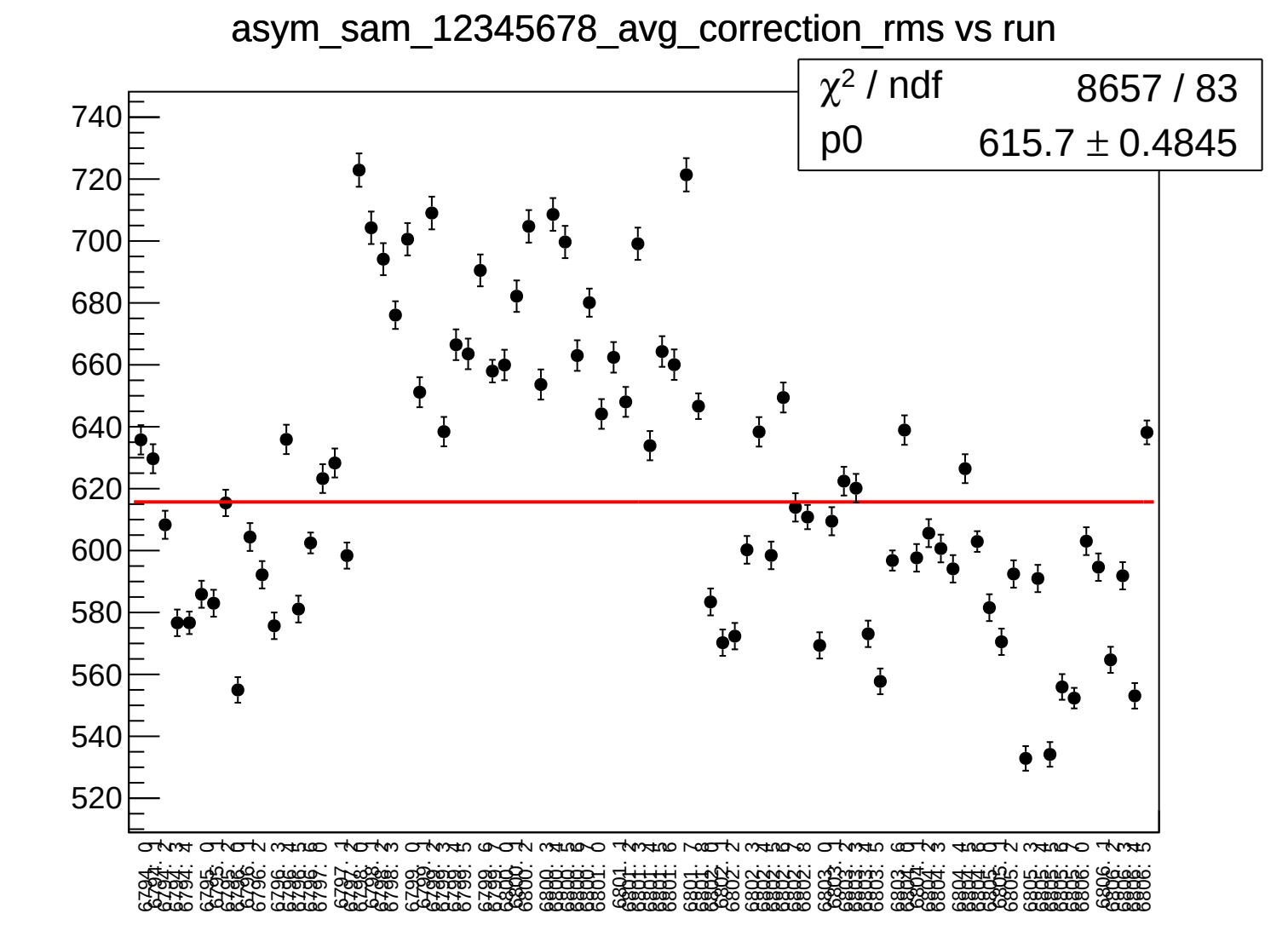

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 81.05 / 83
p0 −139 ± 75.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 84
Mean 2644
Std Dev 2600
2
1
0
−1
−2

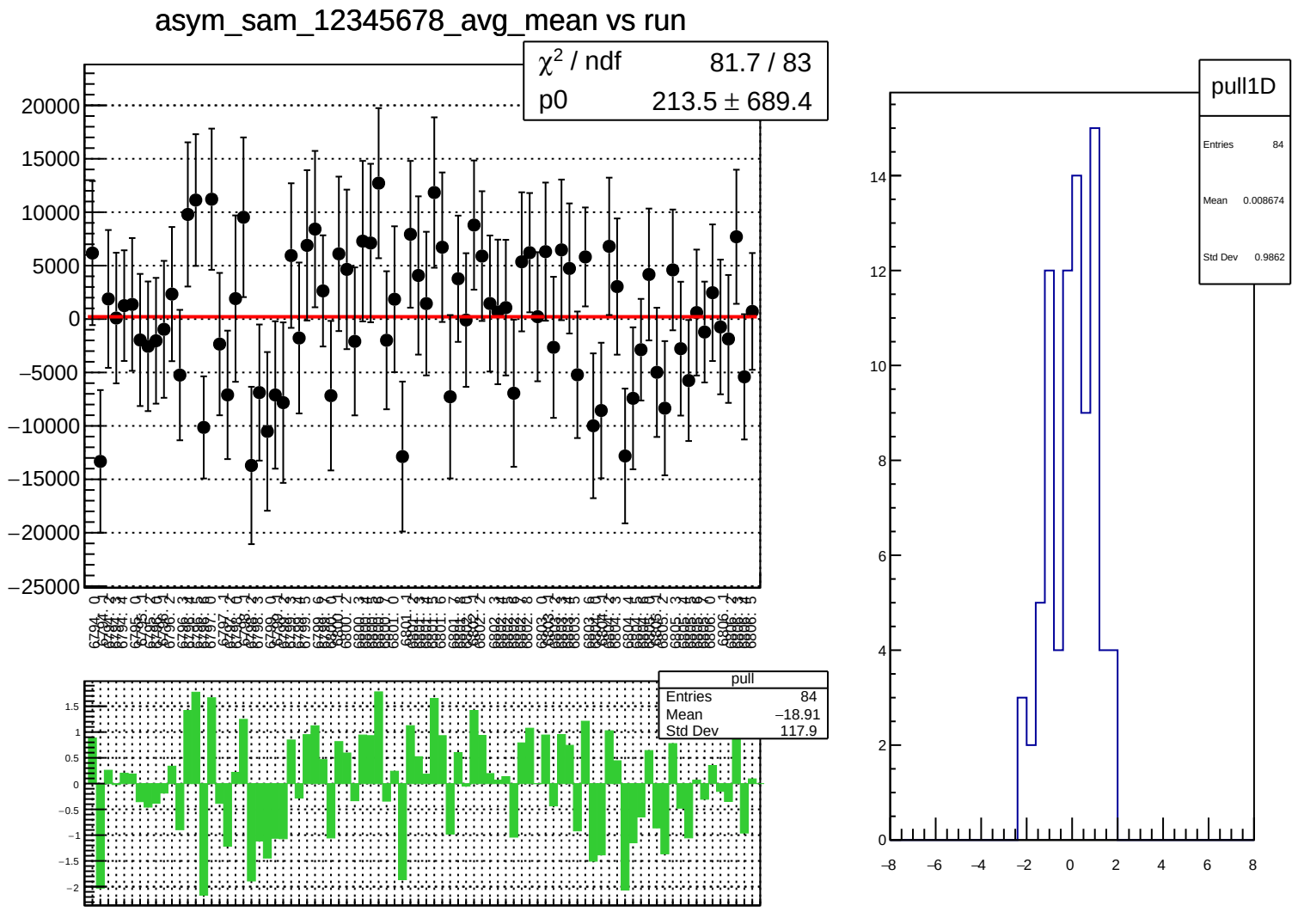

pull1D
Entries 84
Mean −0.002764
Std Dev 0.9823
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

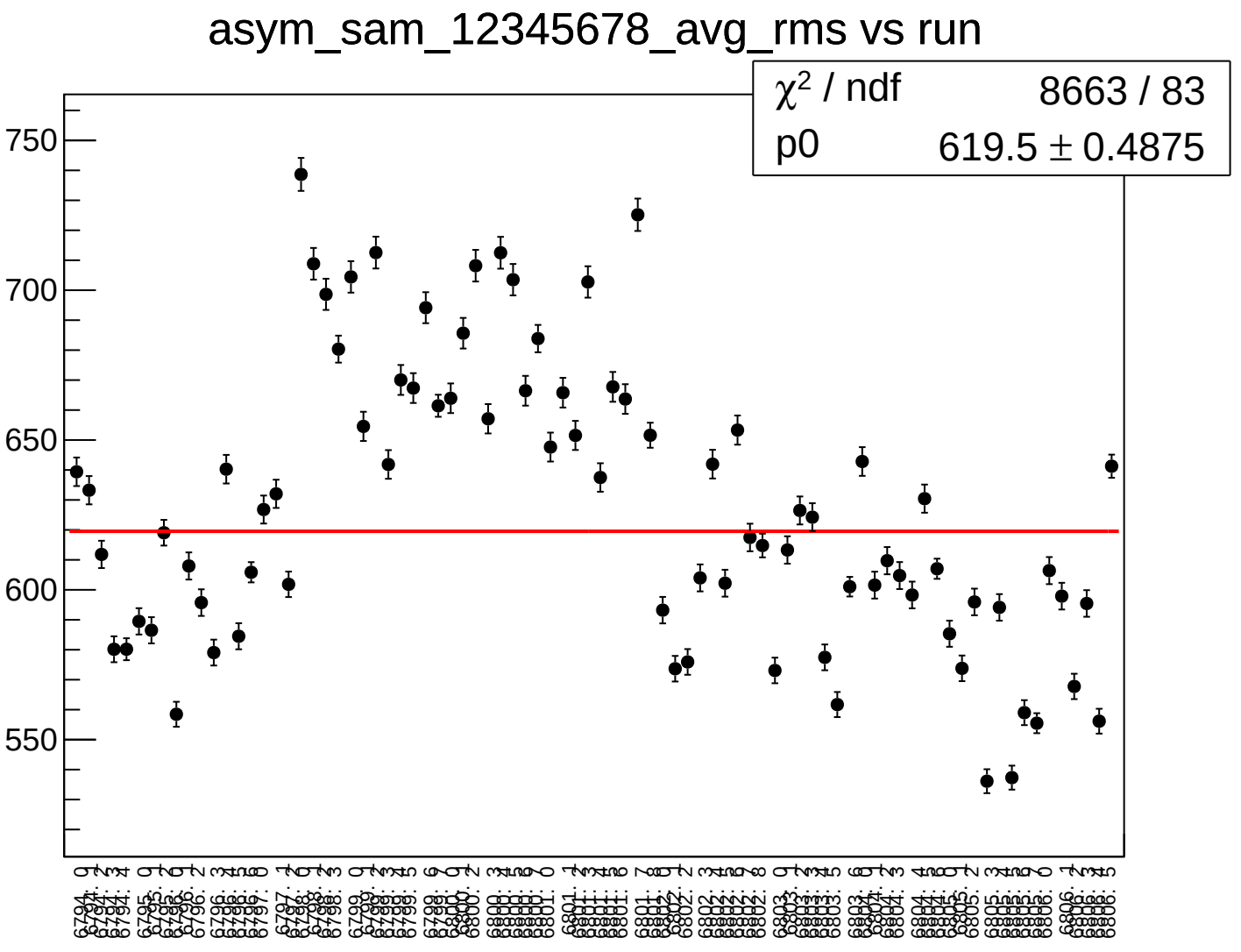

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.592e+04 / 83
p0 67.34 ± 0.0531
160
140
120
100
80
60

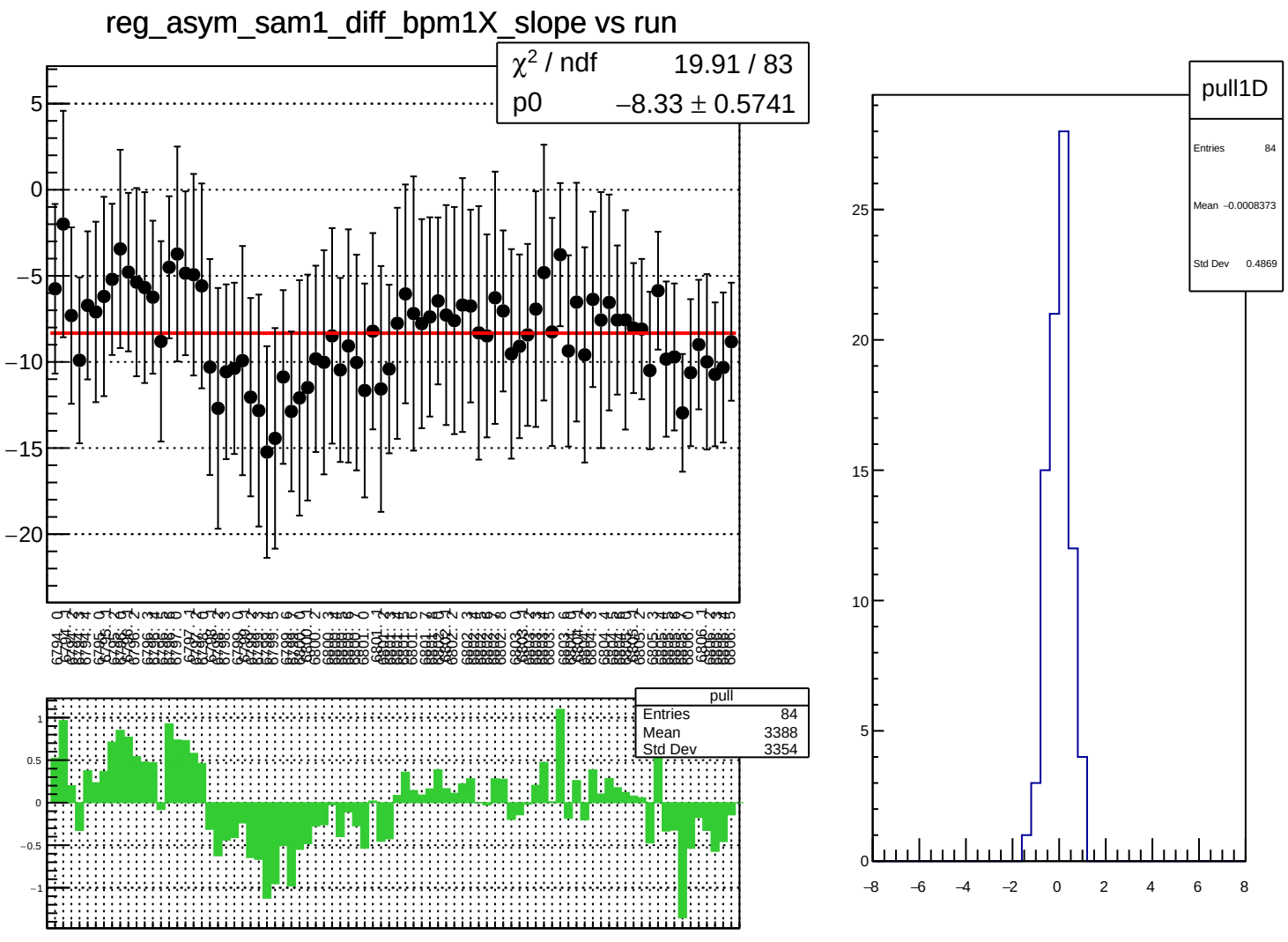

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 81.13 / 83
p0 −368.6 ± 685.1
pull
Entries 84
Mean 68.3
Std Dev 104.5

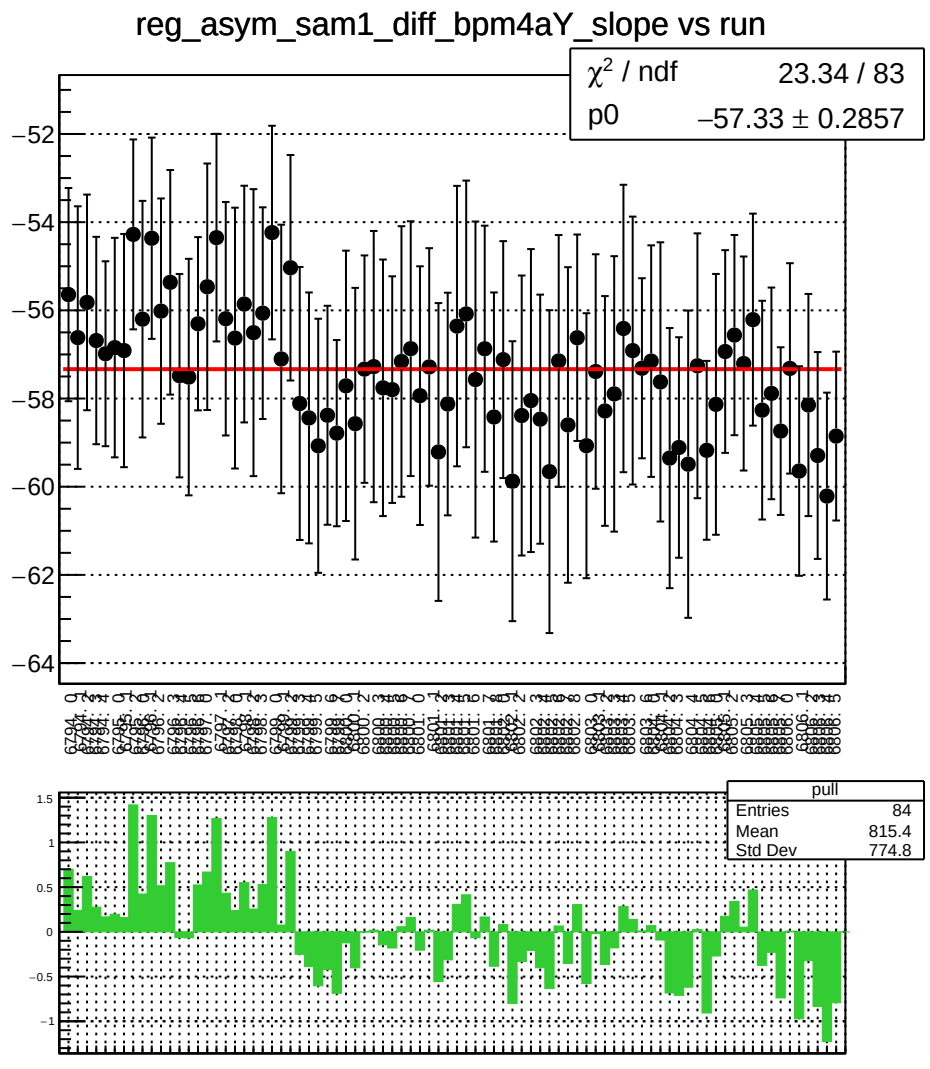

pull1D
Entries 84
Mean −0.008345
Std Dev 0.9827

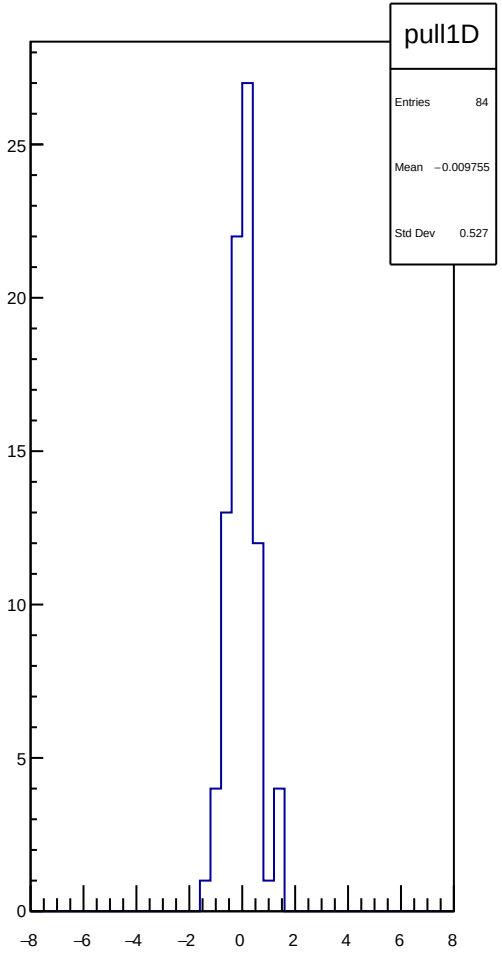

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 8657 / 83
p0 615.7 ± 0.4845
740
720
700
680
660
640
620
600
580
560
540
520

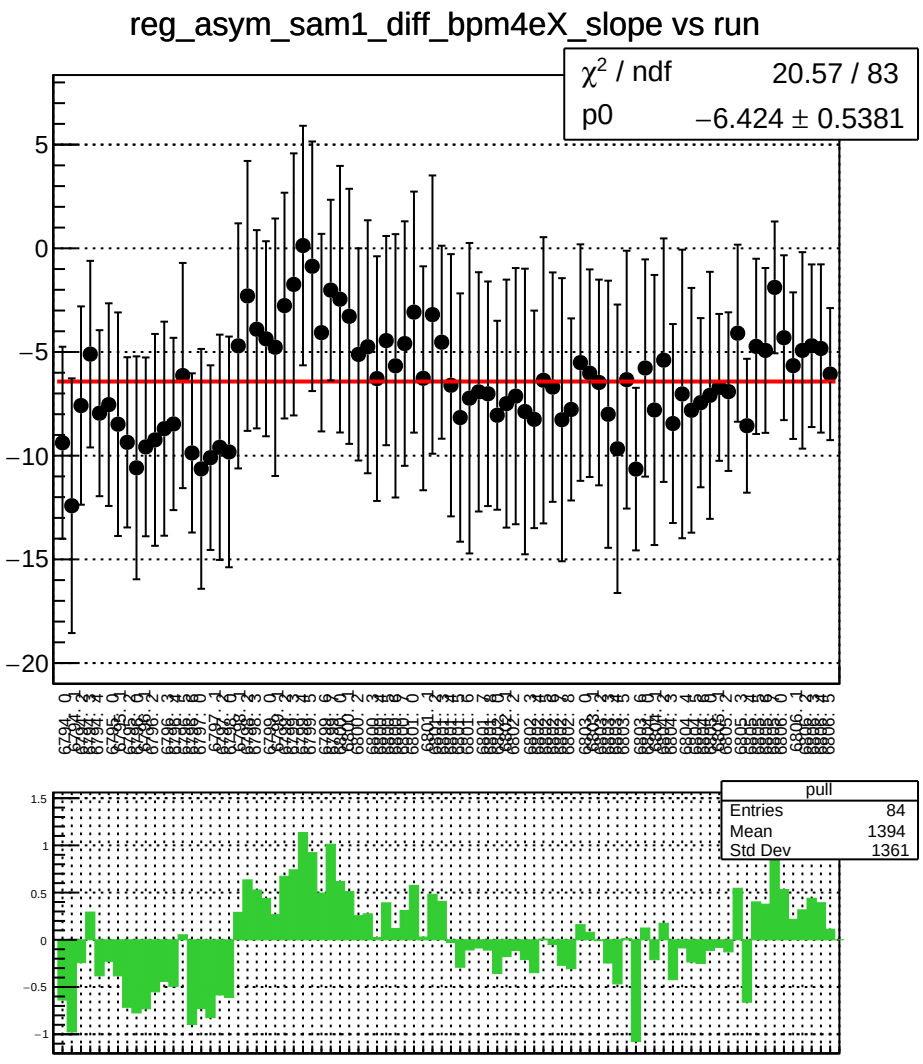

asym_sam_12345678_avg_mean vs run
χ² / ndf 81.7 / 83
p0 213.5 ± 689.4
pull
Entries 84
Mean −18.91
Std Dev 117.9
pull1D
Entries 84
Mean 0.008674
Std Dev 0.9862

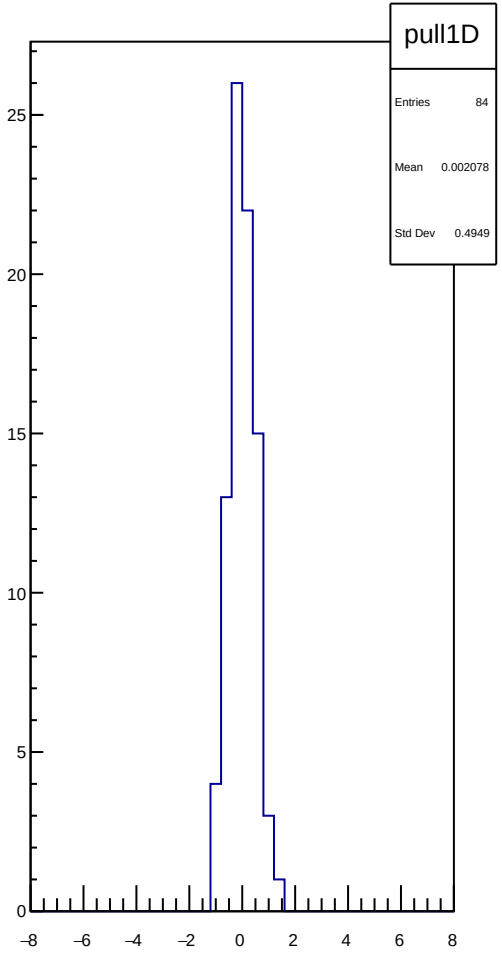

asym_sam_12345678_avg_rms vs run
χ² / ndf 8663 / 83
p0 619.5 ± 0.4875
750
700
650
600
550

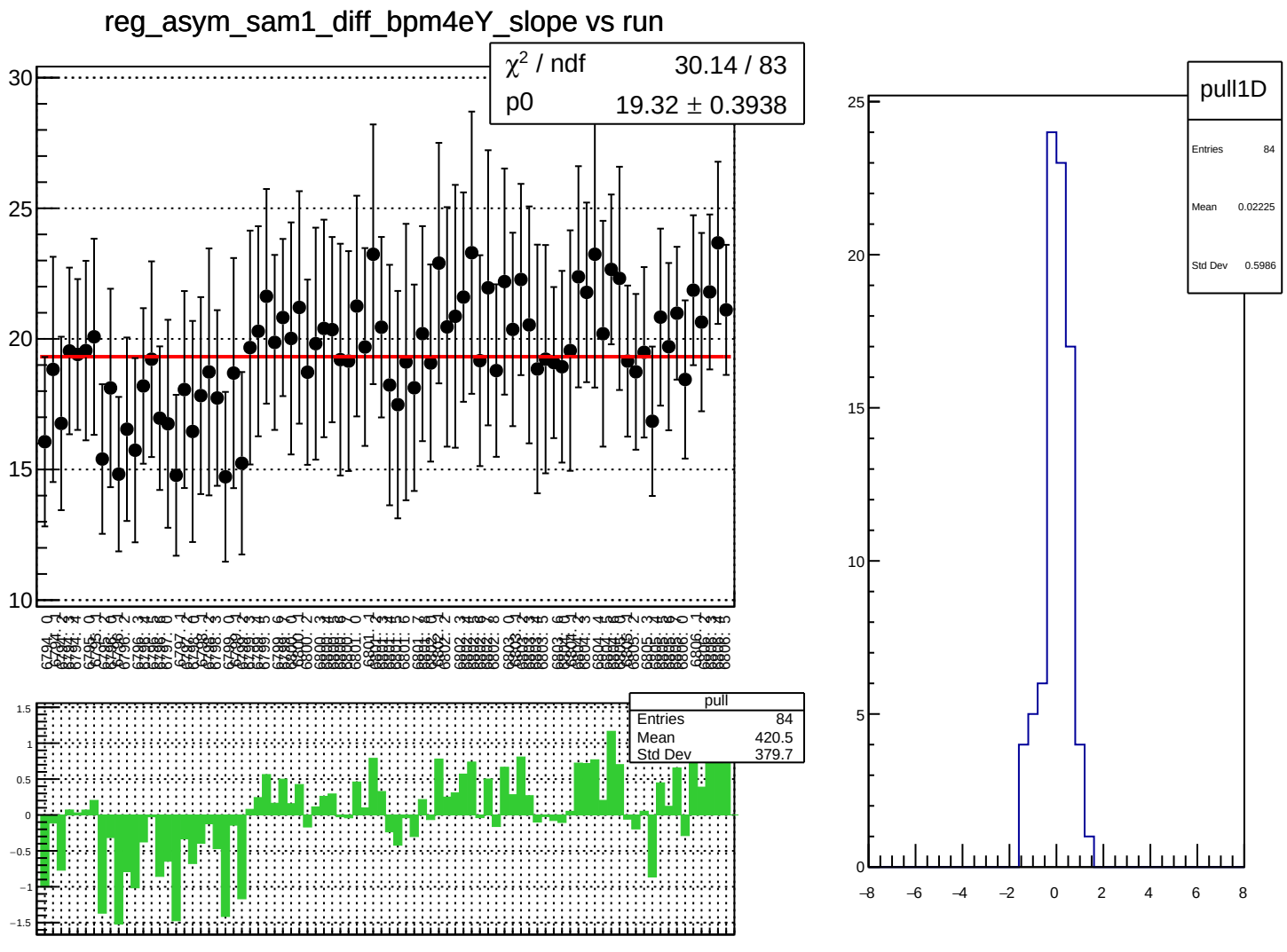

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 19.91 / 83
p0 −8.33 ± 0.5741
pull
Entries 84
Mean 3388
Std Dev 3354
pull1D
Entries 84
Mean −0.0008373
Std Dev 0.4869

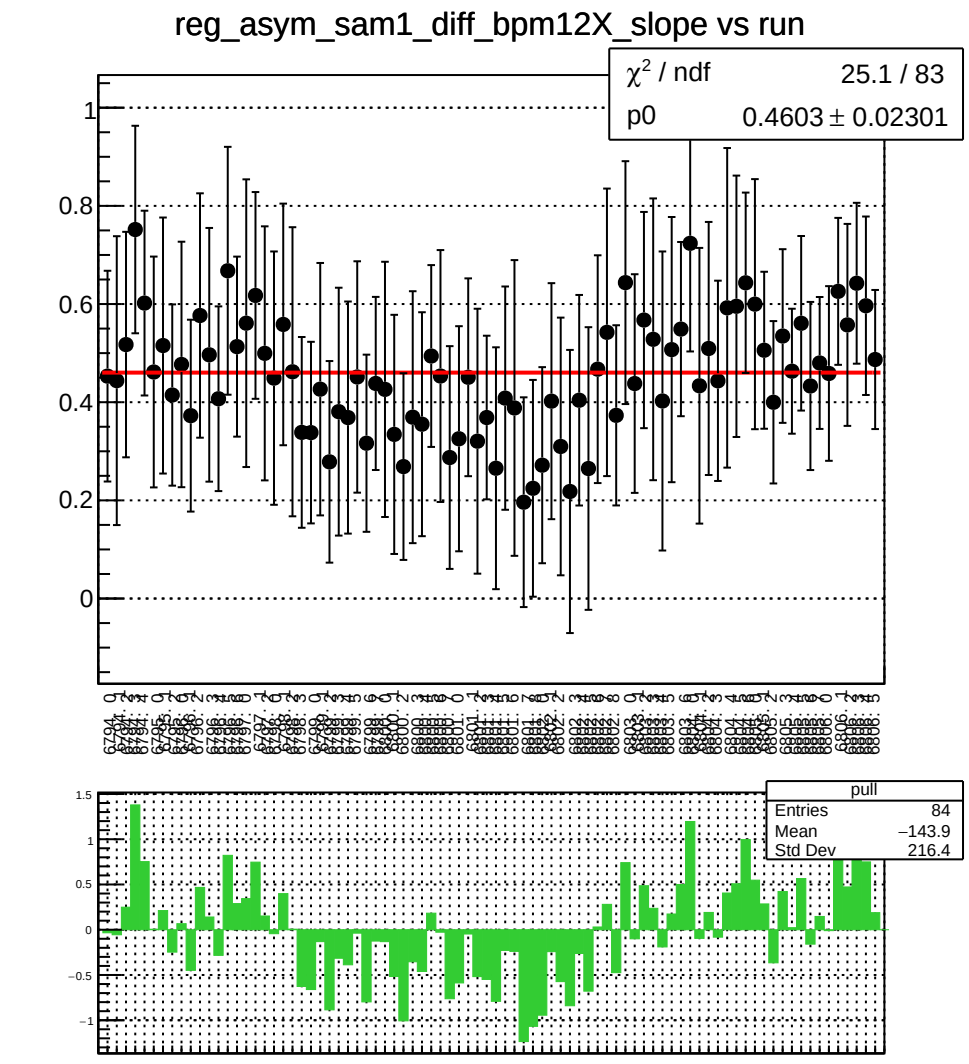

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 23.34 / 83
p0 −57.33 ± 0.2857
pull
Entries 84
Mean 815.4
Std Dev 774.8

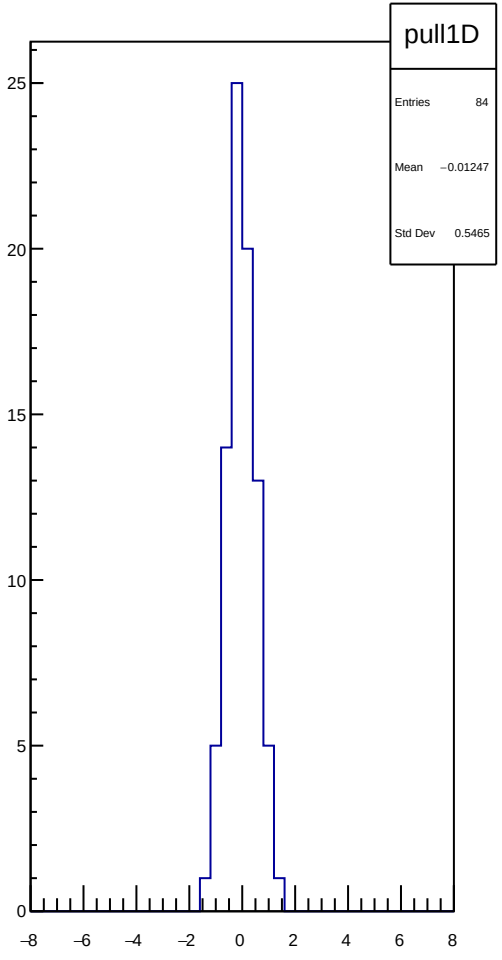

pull1D
Entries 84
Mean −0.009755
Std Dev 0.527

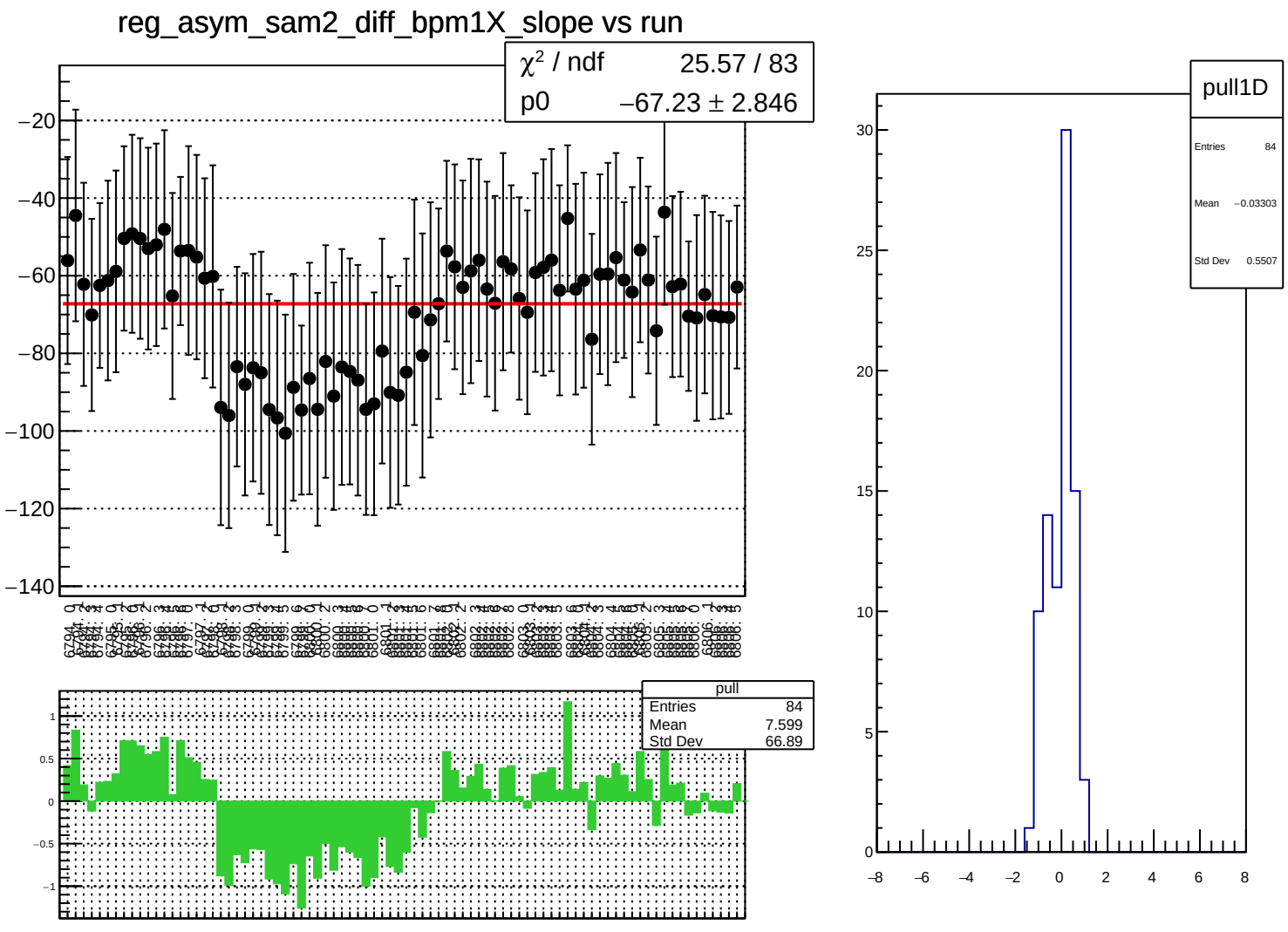

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 20.57 / 83
p0 −6.424 ± 0.5381
pull
Entries 84
Mean 1394
Std Dev 1361

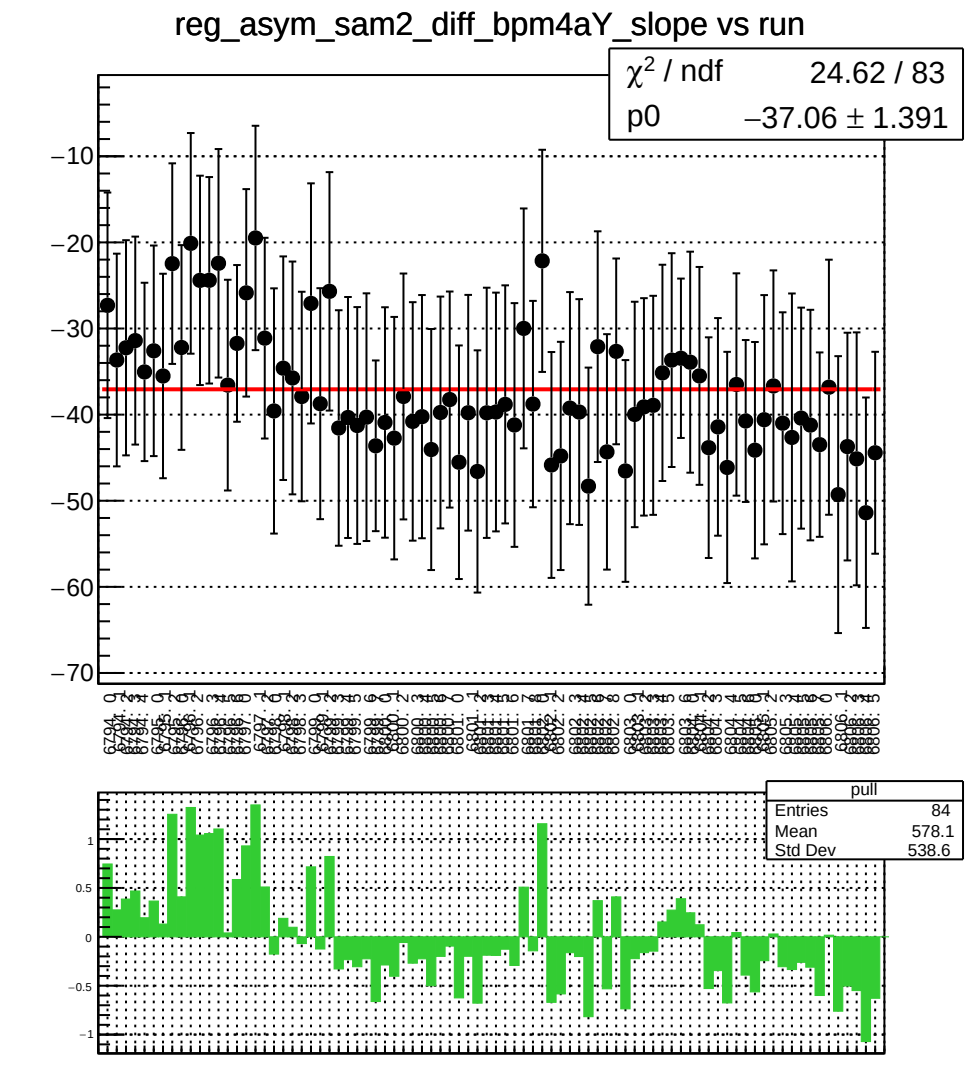

pull1D
Entries 84
Mean 0.002078
Std Dev 0.4949

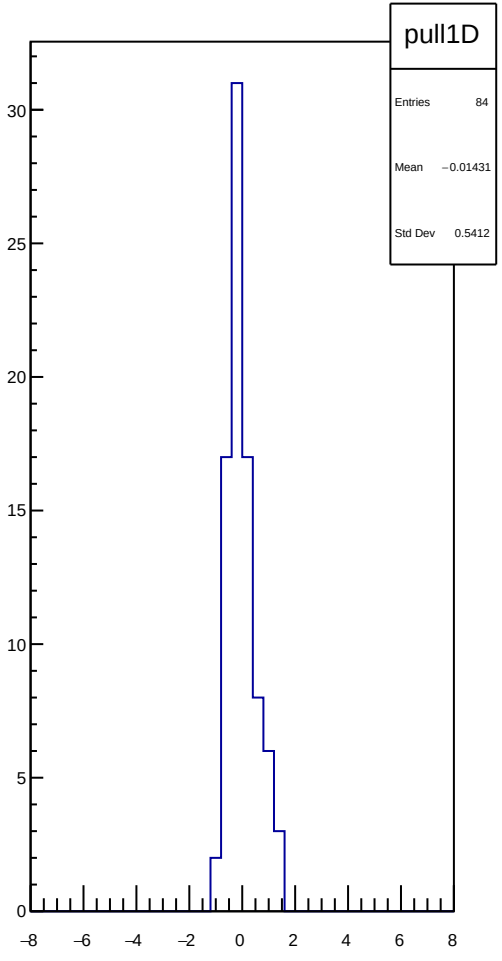

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 30.14 / 83
p0 19.32 ± 0.3938
pull
Entries 84
Mean 420.5
Std Dev 379.7
pull1D
Entries 84
Mean 0.02225
Std Dev 0.5986

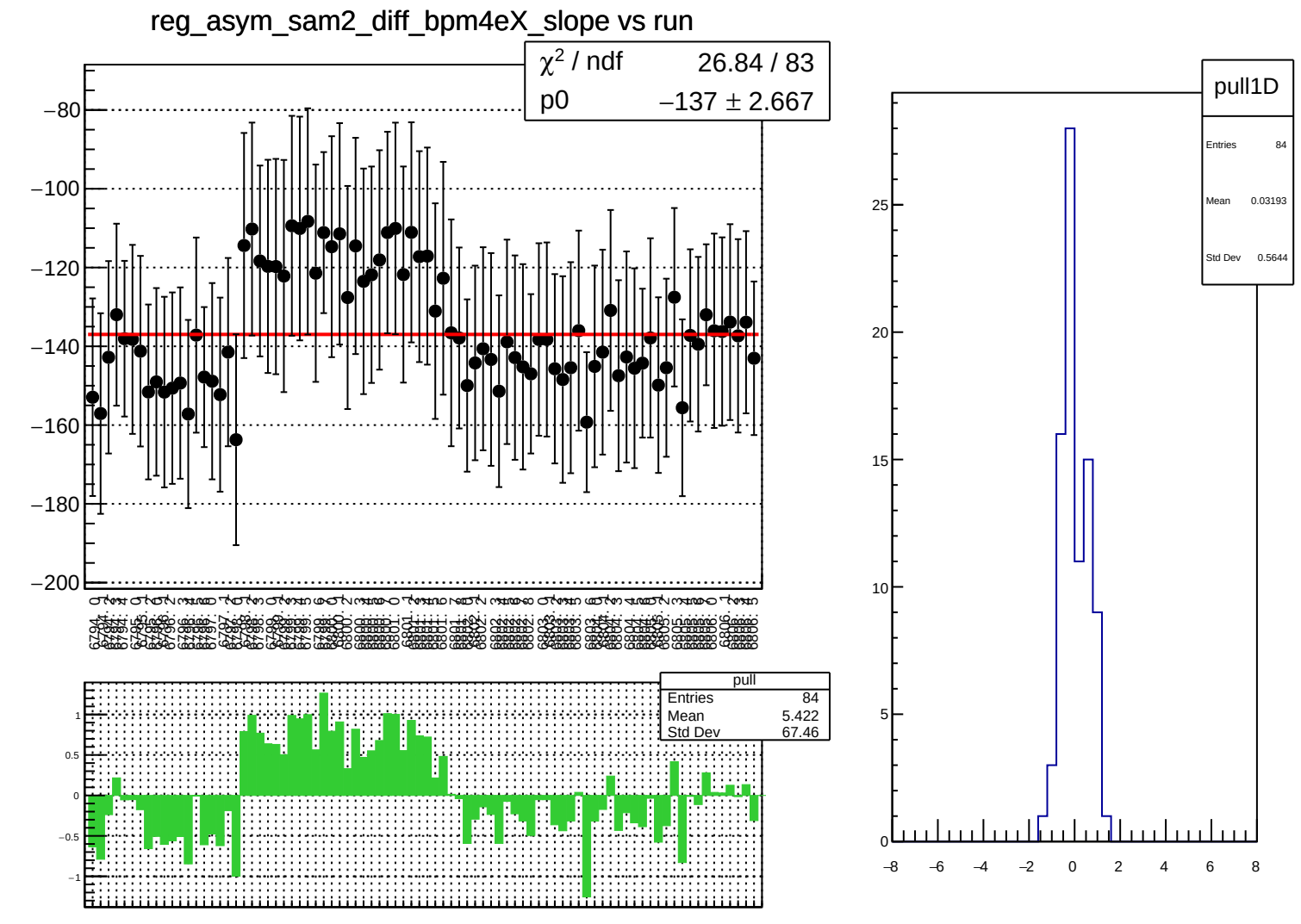

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 25.1 / 83
p0 0.4603 ± 0.02301
pull
Entries 84
Mean −143.9
Std Dev 216.4

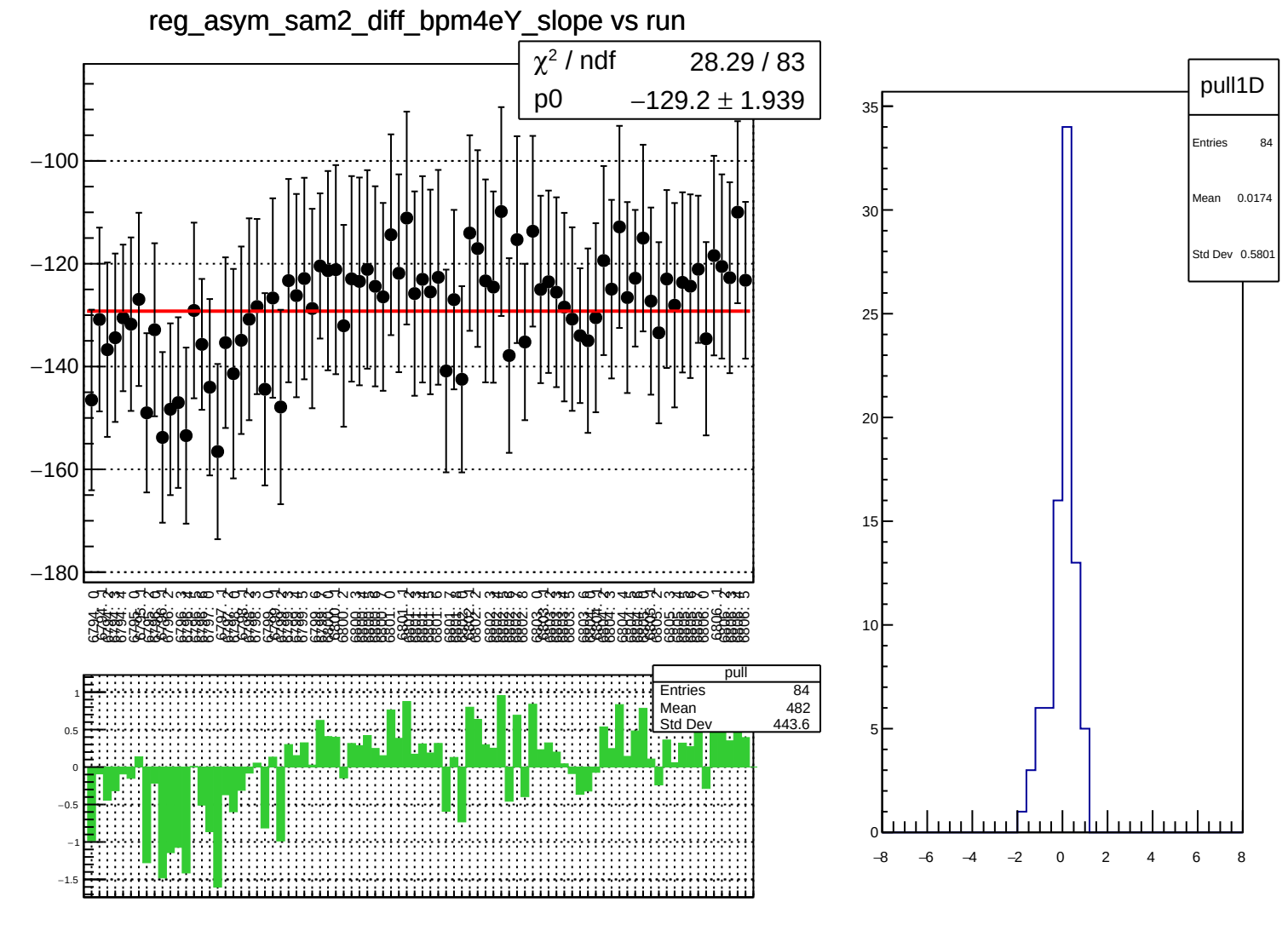

pull1D
Entries 84
Mean −0.01247
Std Dev 0.5465

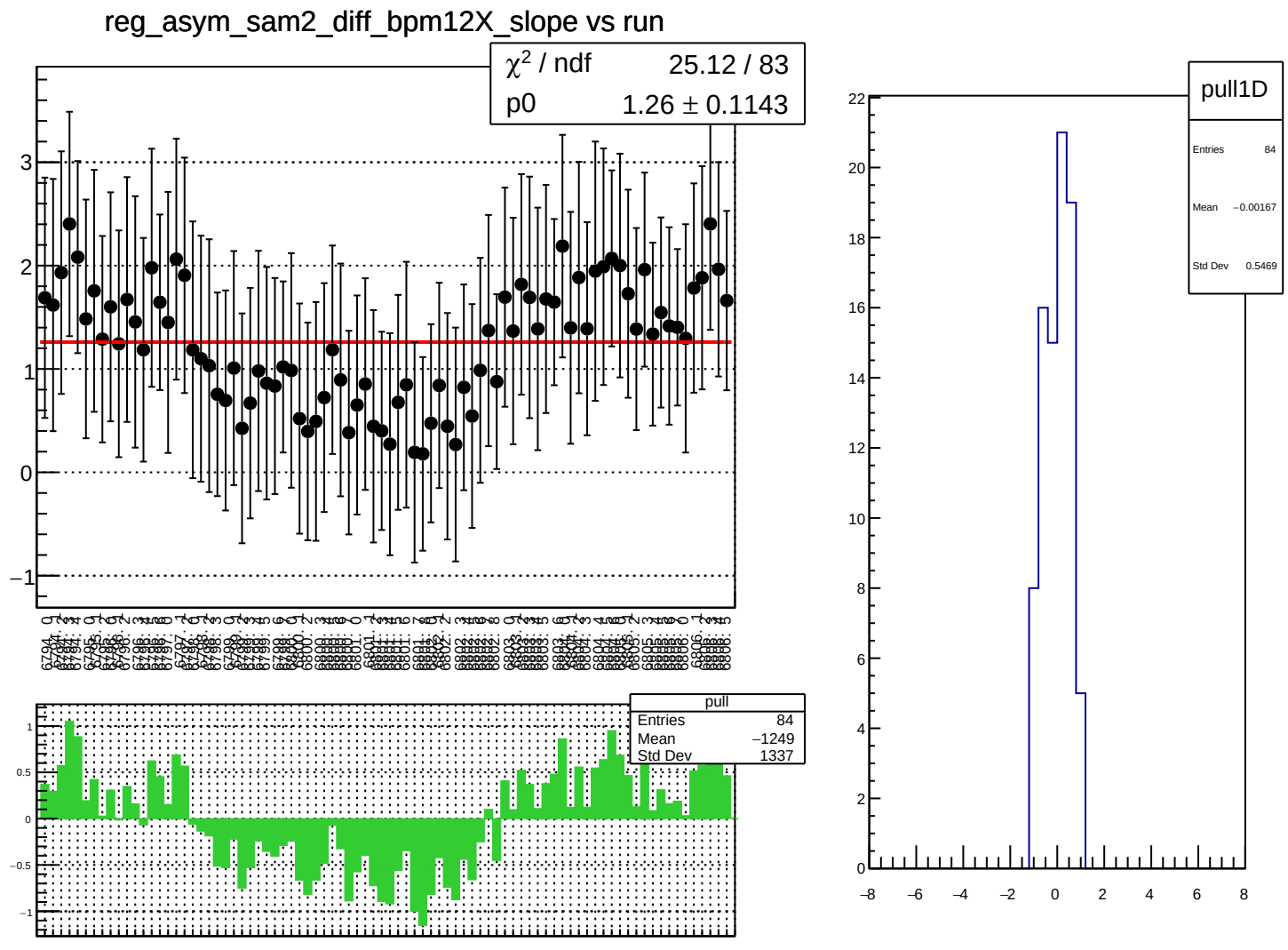

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 25.57 / 83
p0 −67.23 ± 2.846
pull
Entries 84
Mean 7.599
Std Dev 66.89
pull1D
Entries 84
Mean −0.03303
Std Dev 0.5507

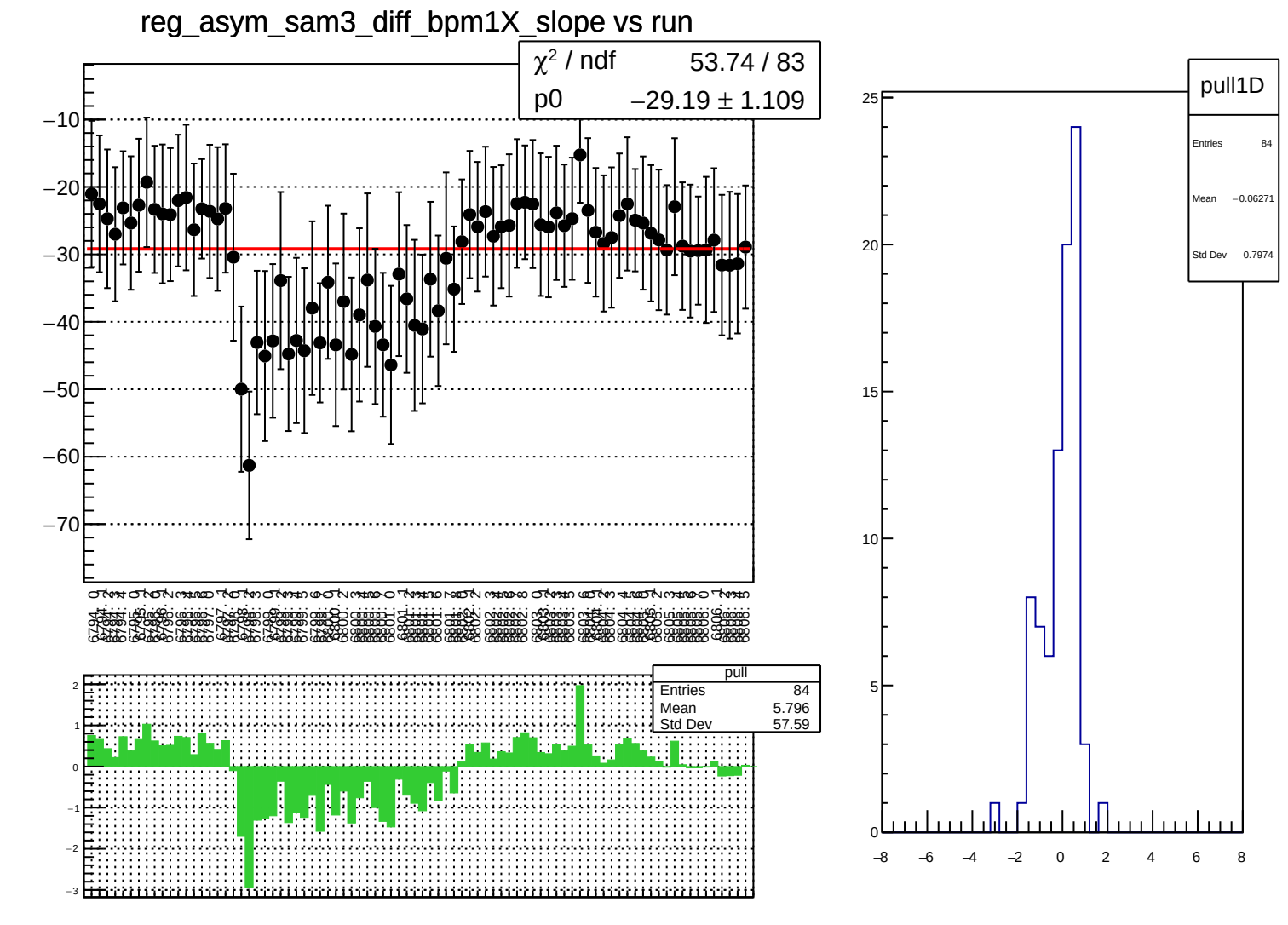

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 24.62 / 83
p0 −37.06 ± 1.391
pull
Entries 84
Mean 578.1
Std Dev 538.6

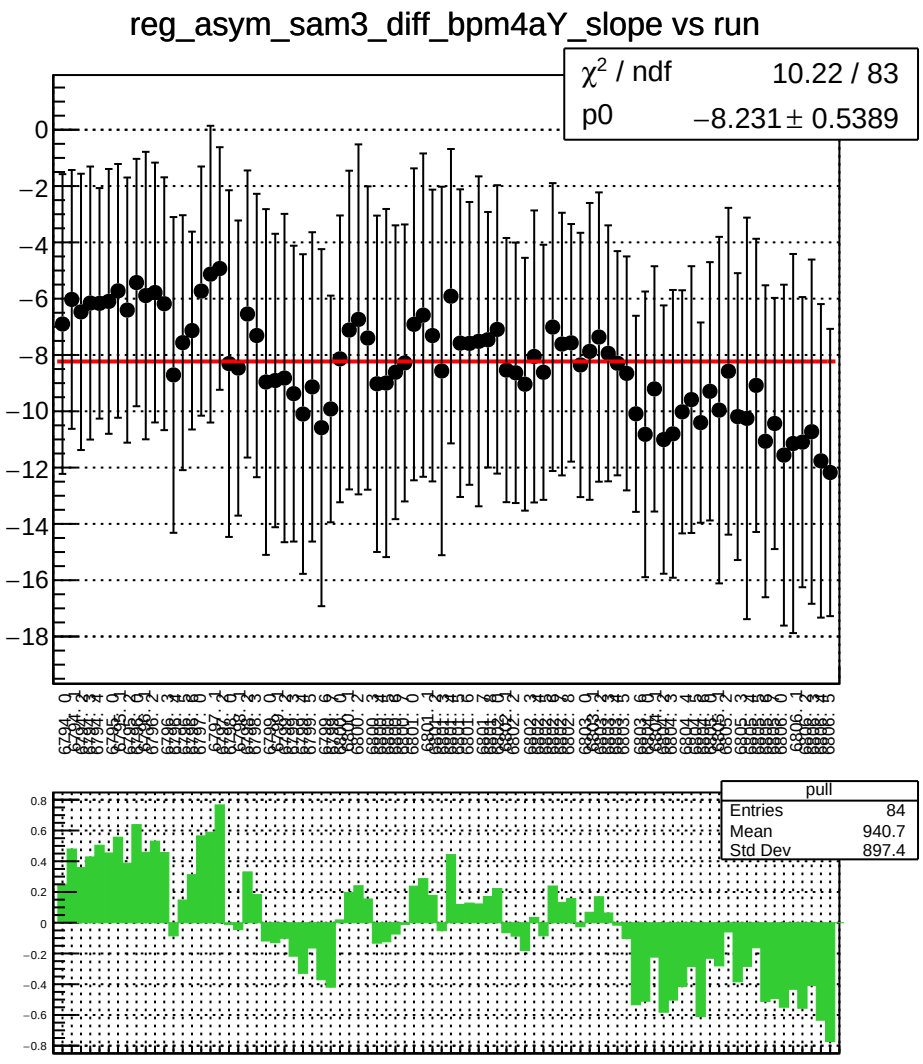

pull1D
Entries 84
Mean −0.01431
Std Dev 0.5412

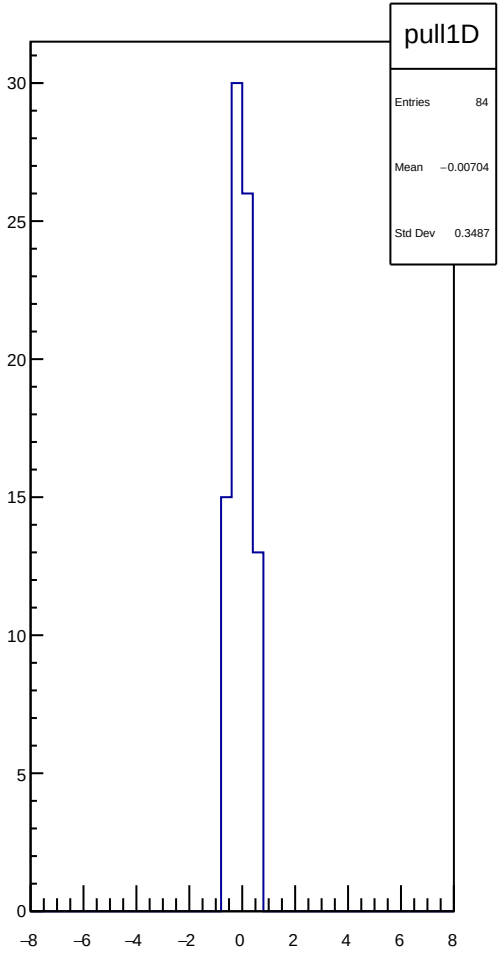

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 26.84 / 83
p0 −137 ± 2.667
pull
Entries 84
Mean 5.422
Std Dev 67.46
pull1D
Entries 84
Mean 0.03193
Std Dev 0.5644

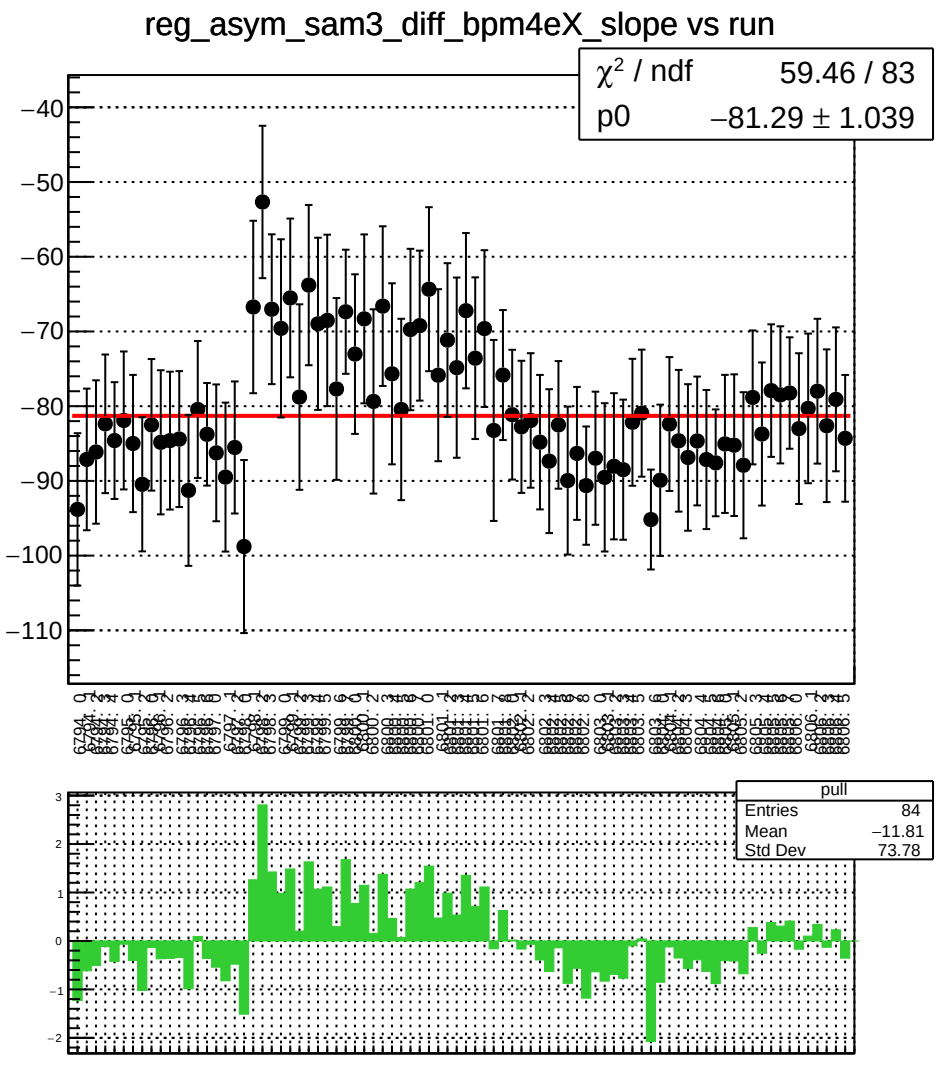

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 28.29 / 83
p0 −129.2 ± 1.939
−100
−120
−140
−160
−180
pull
Entries 84
Mean 482
Std Dev 443.6
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.0174
Std Dev 0.5801
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

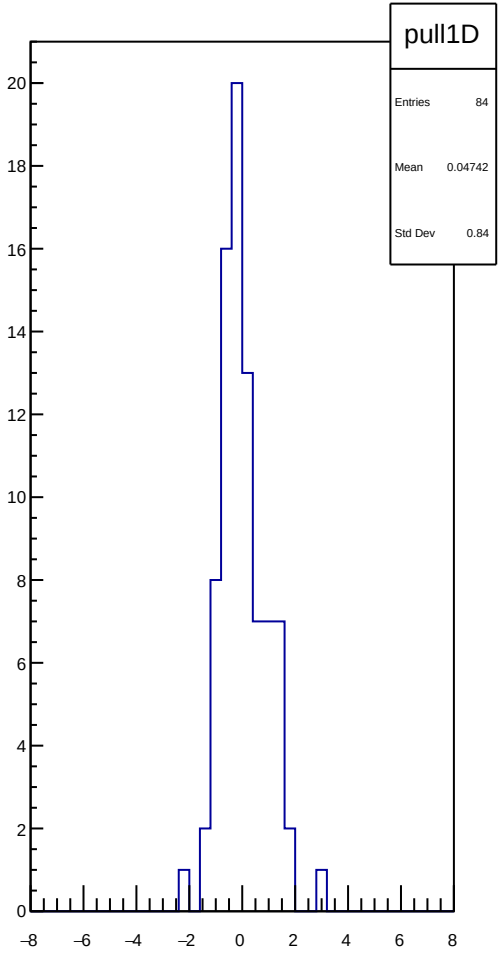

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 25.12 / 83
p0 1.26 ± 0.1143
pull
Entries 84
Mean −1249
Std Dev 1337
pull1D
Entries 84
Mean −0.00167
Std Dev 0.5469

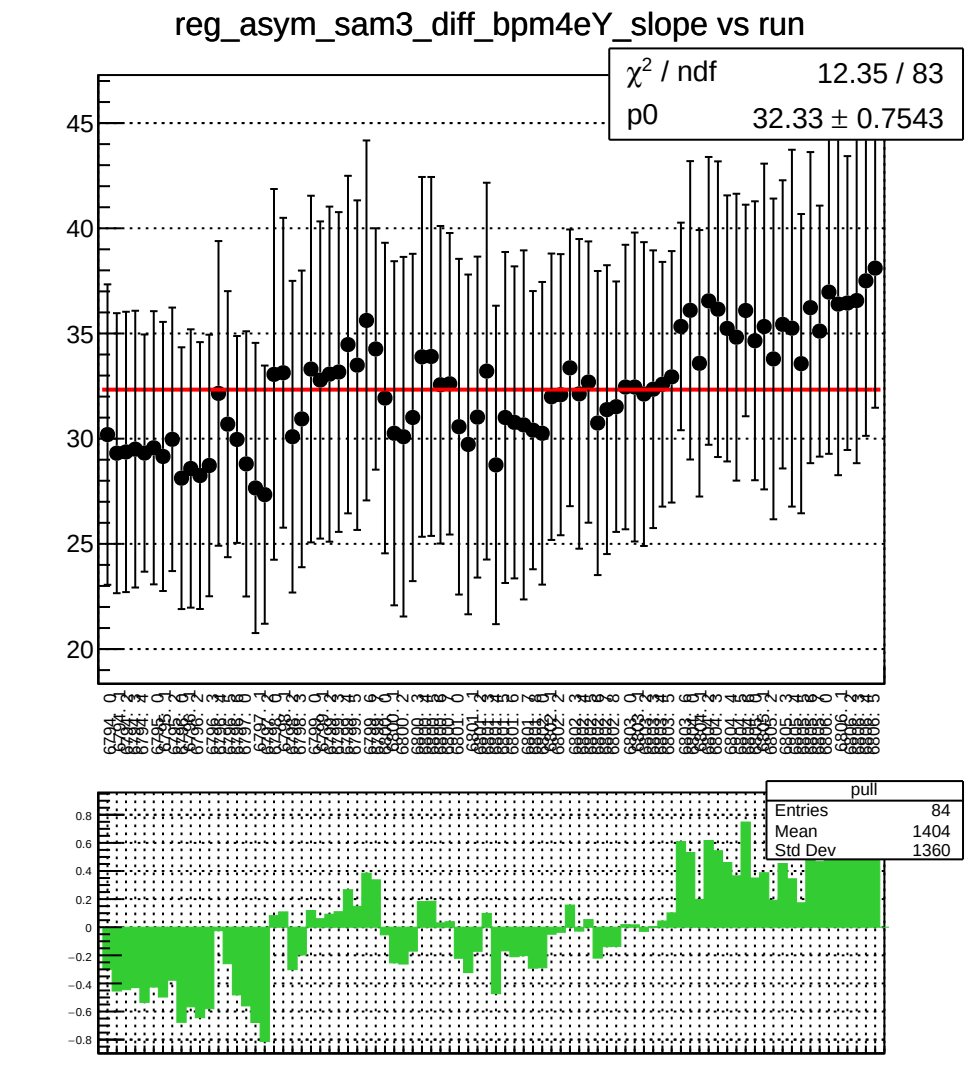

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 53.74 / 83
p0 −29.19 ± 1.109
pull
Entries 84
Mean 5.796
Std Dev 57.59
pull1D
Entries 84
Mean −0.06271
Std Dev 0.7974

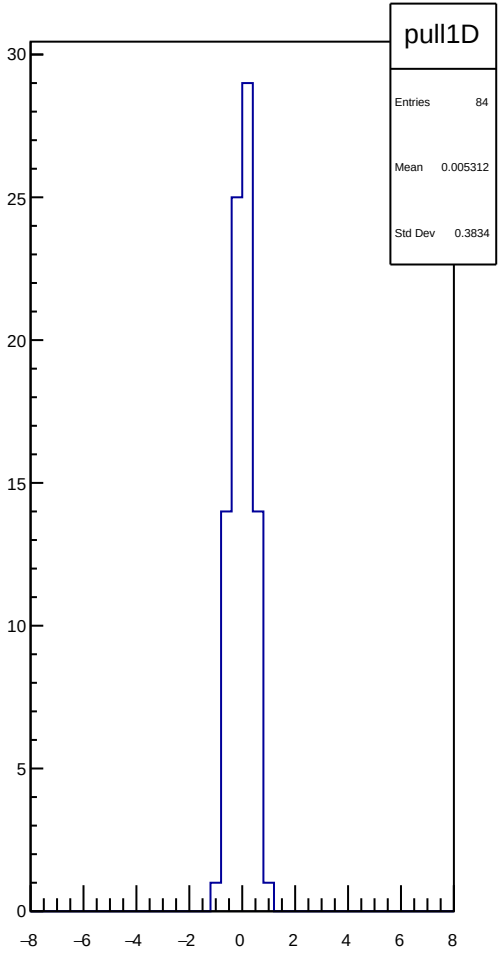

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 10.22 / 83
p0 −8.231 ± 0.5389
pull
Entries 84
Mean 940.7
Std Dev 897.4

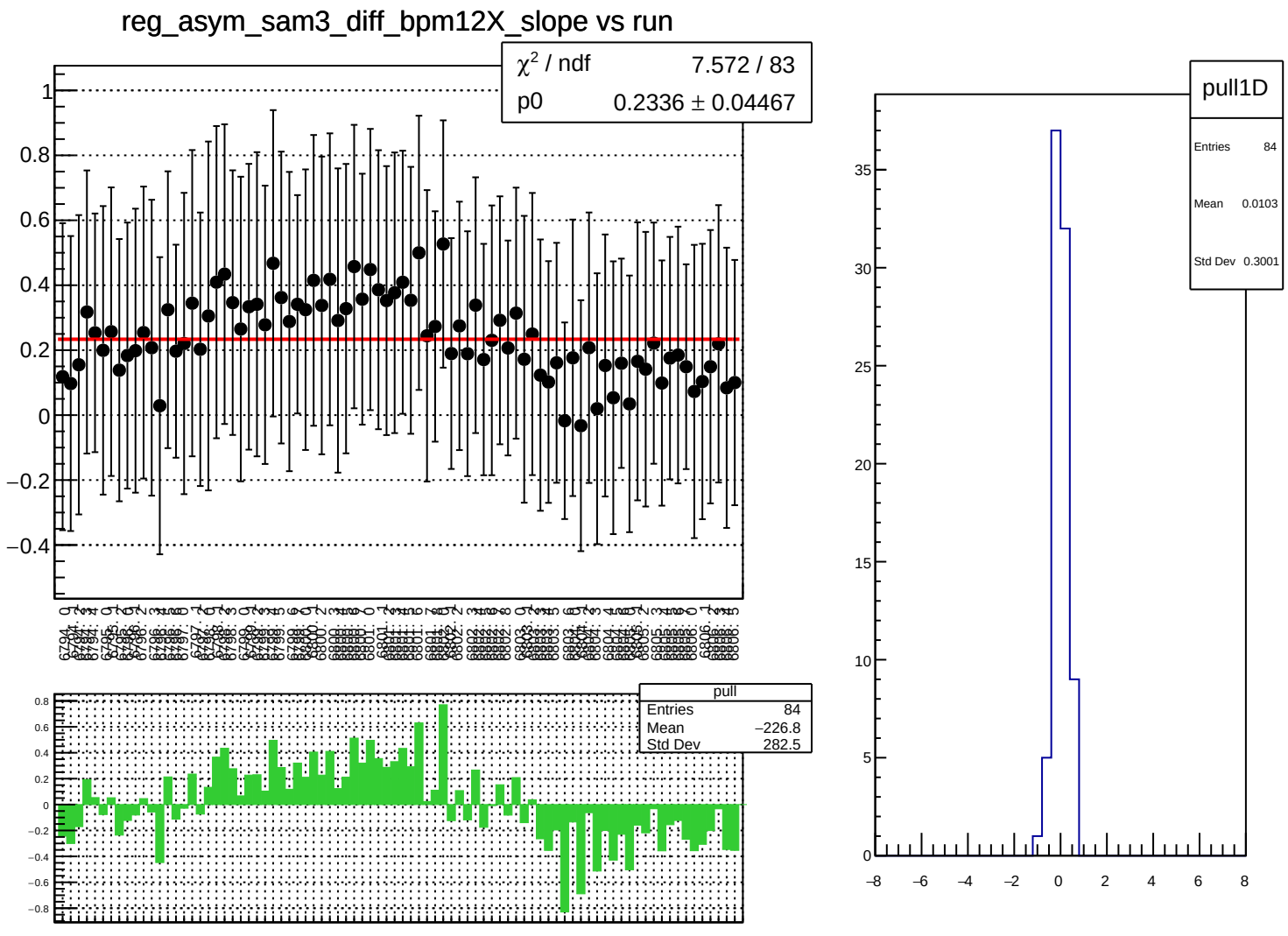

pull1D
Entries 84
Mean −0.00704
Std Dev 0.3487

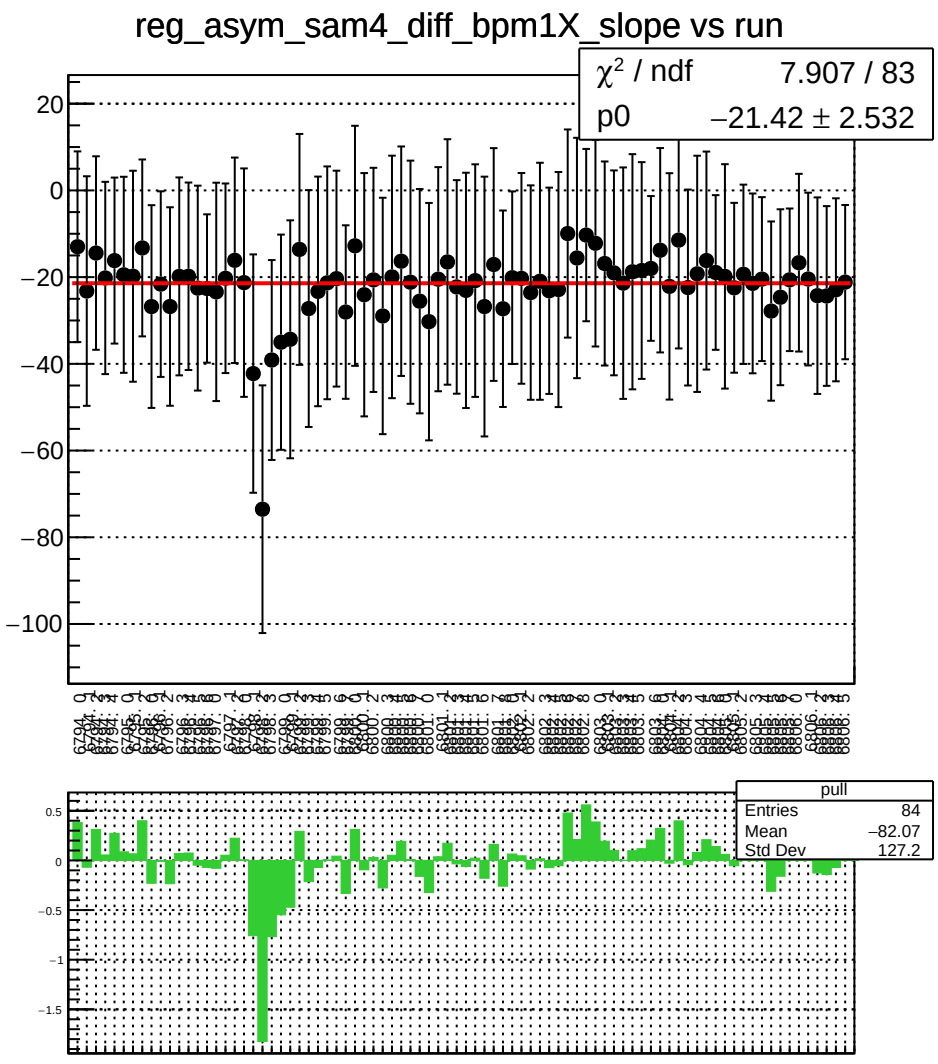

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 59.46 / 83
p0 −81.29 ± 1.039
pull
Entries 84
Mean −11.81
Std Dev 73.78

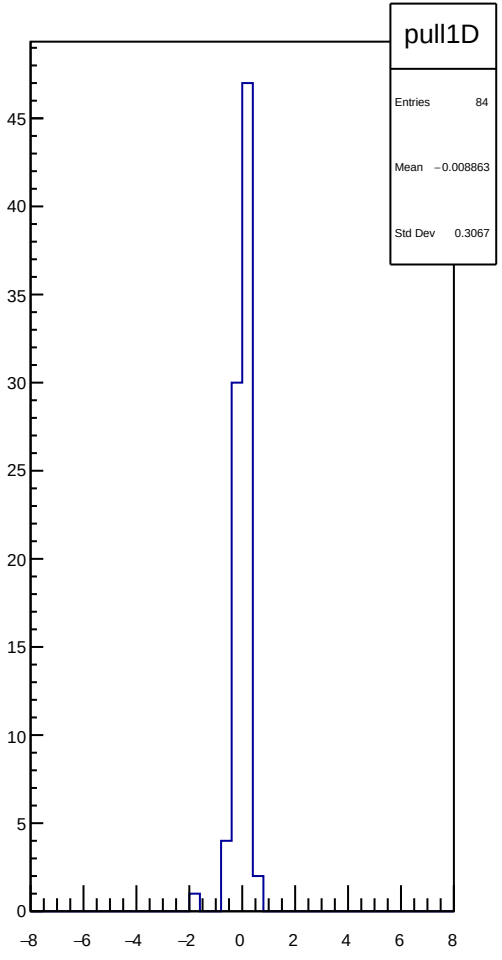

pull1D
Entries 84
Mean 0.04742
Std Dev 0.84

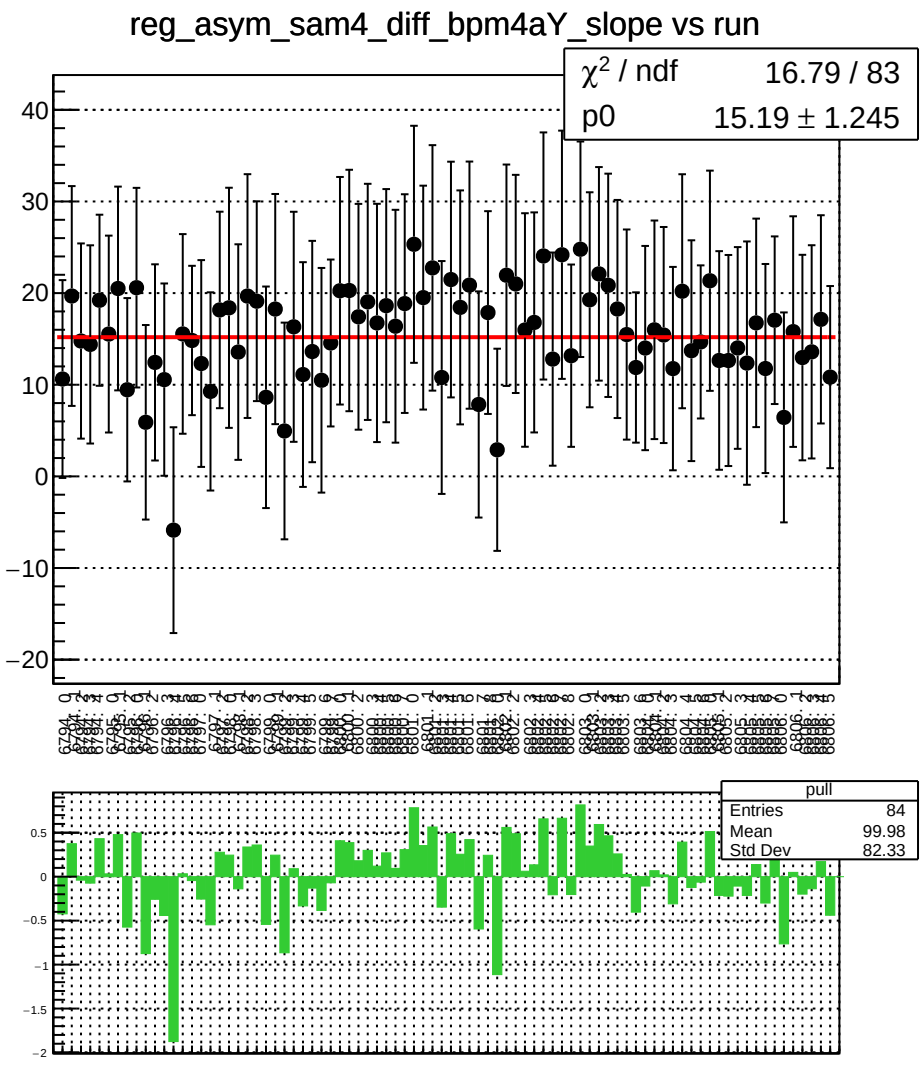

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 12.35 / 83
p0 32.33 ± 0.7543
pull
Entries 84
Mean 1404
Std Dev 1360

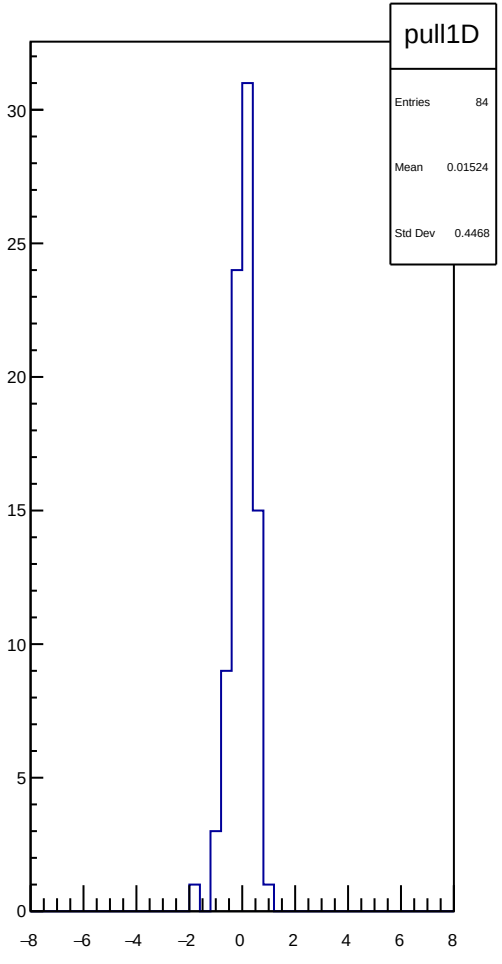

pull1D
Entries 84
Mean 0.005312
Std Dev 0.3834

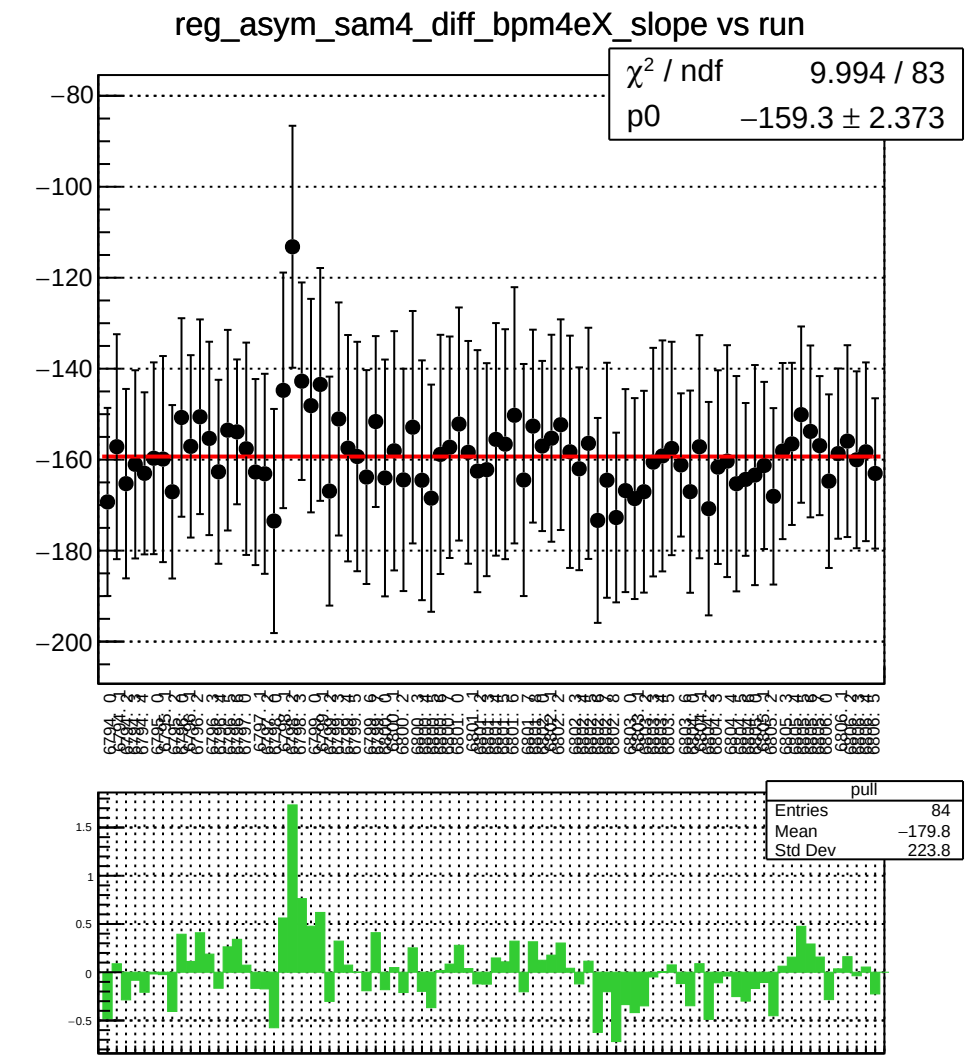

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 7.572 / 83
p0 0.2336 ± 0.04467
pull
Entries 84
Mean −226.8
Std Dev 282.5
pull1D
Entries 84
Mean 0.0103
Std Dev 0.3001

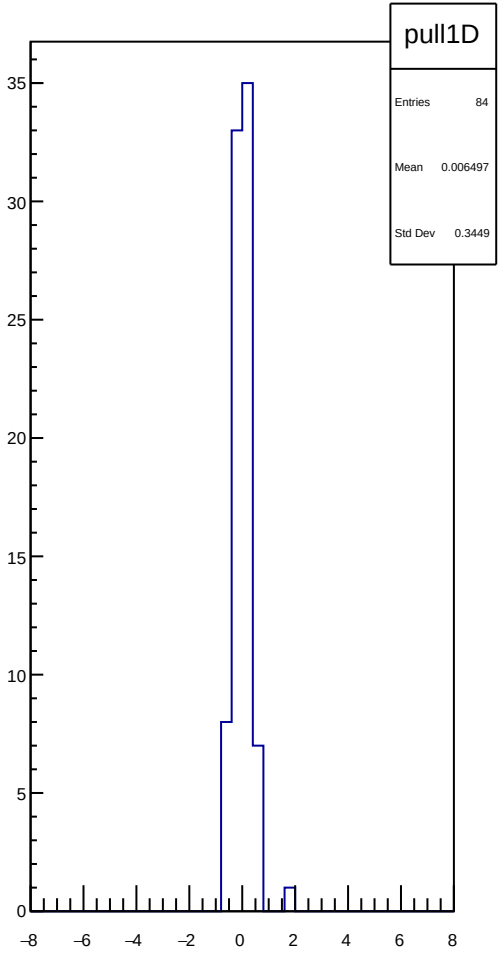

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 7.907 / 83
p0 −21.42 ± 2.532
pull
Entries 84
Mean −82.07
Std Dev 127.2

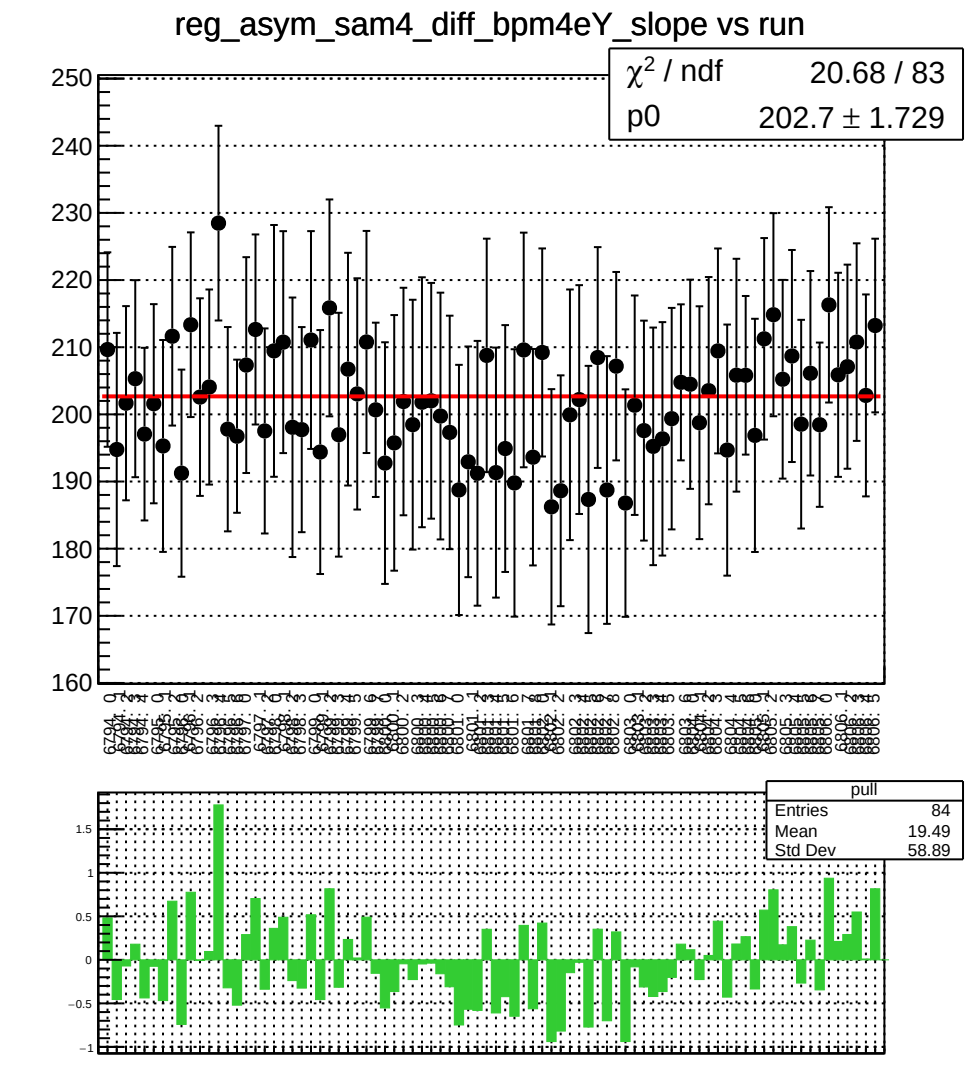

pull1D
Entries 84
Mean −0.008863
Std Dev 0.3067

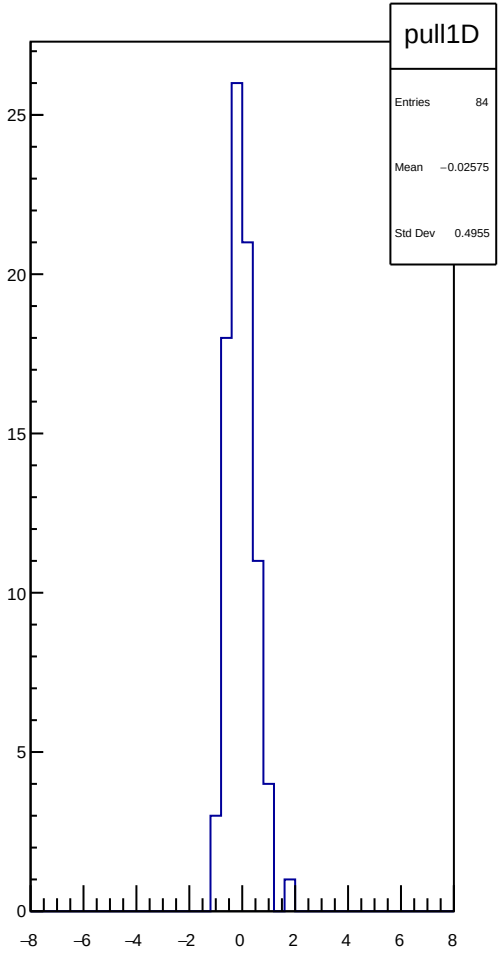

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 16.79 / 83
p0 15.19 ± 1.245
pull
Entries 84
Mean 99.98
Std Dev 82.33

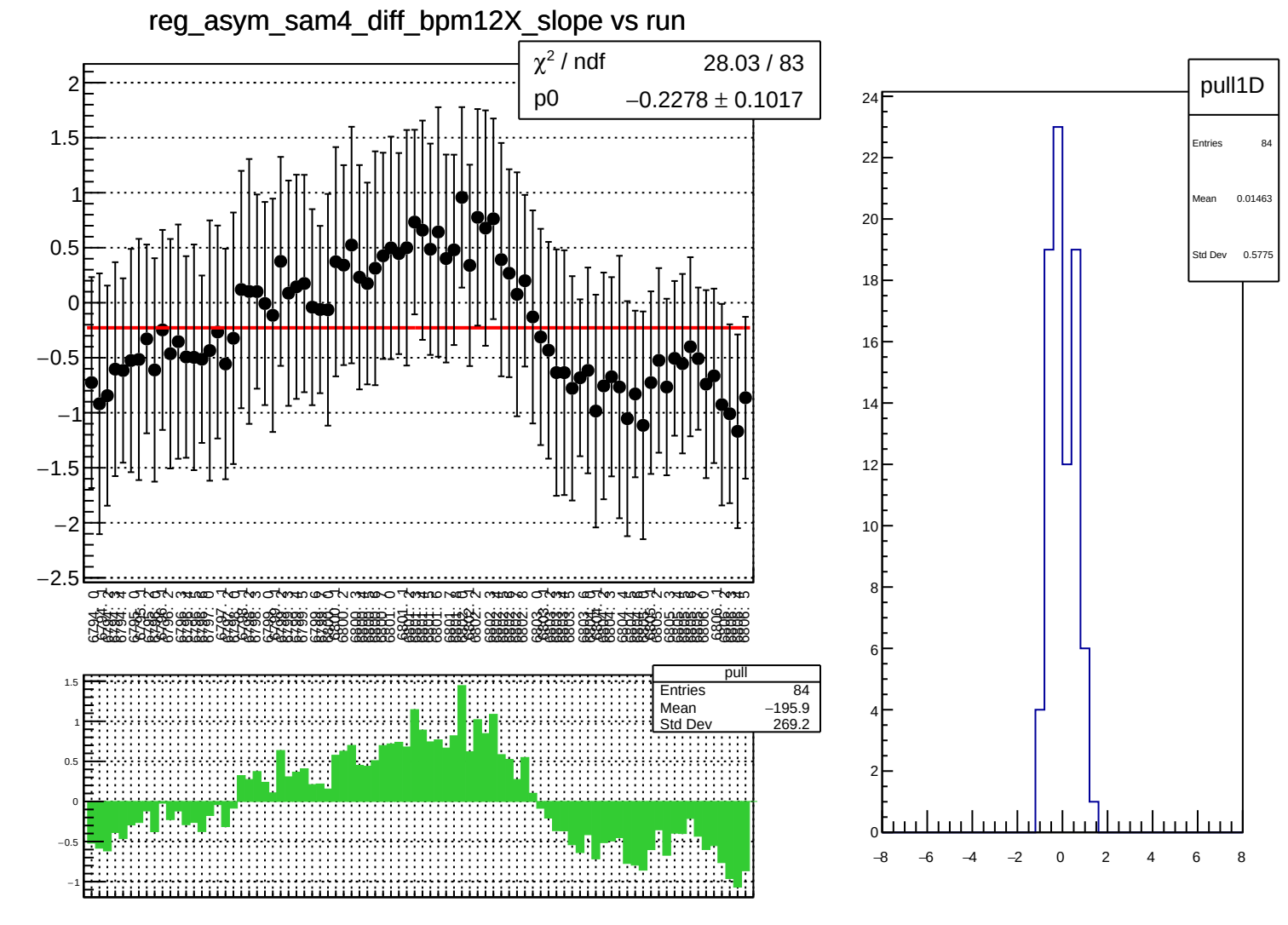

pull1D
Entries 84
Mean 0.01524
Std Dev 0.4468

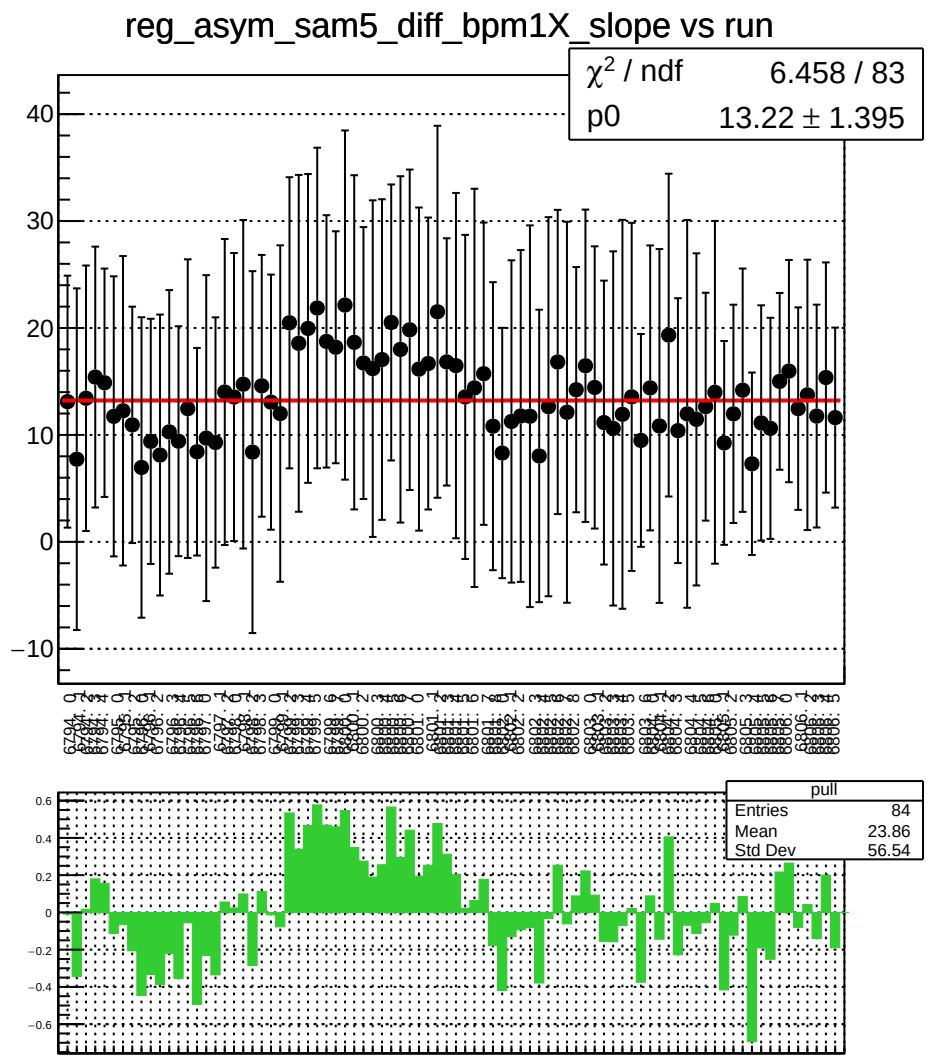

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 9.994 / 83
p0 −159.3 ± 2.373
pull
Entries 84
Mean −179.8
Std Dev 223.8

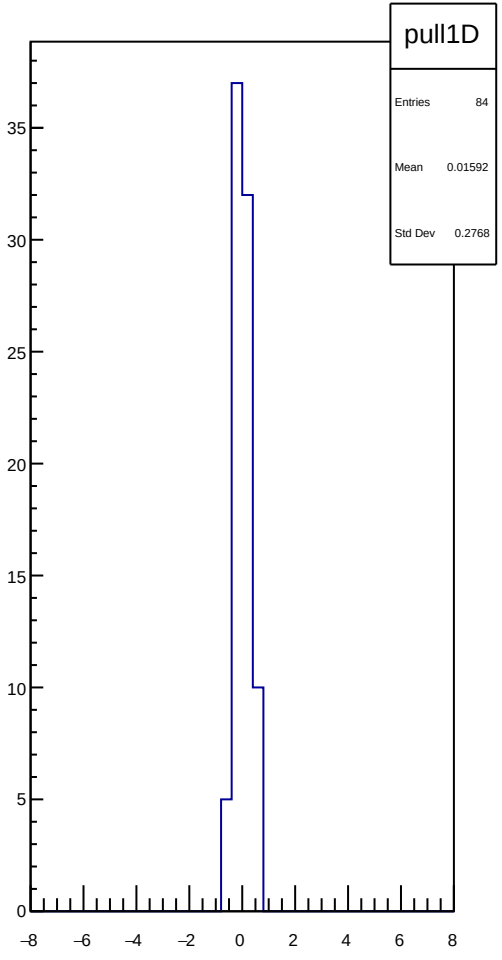

pull1D
Entries 84
Mean 0.006497
Std Dev 0.3449

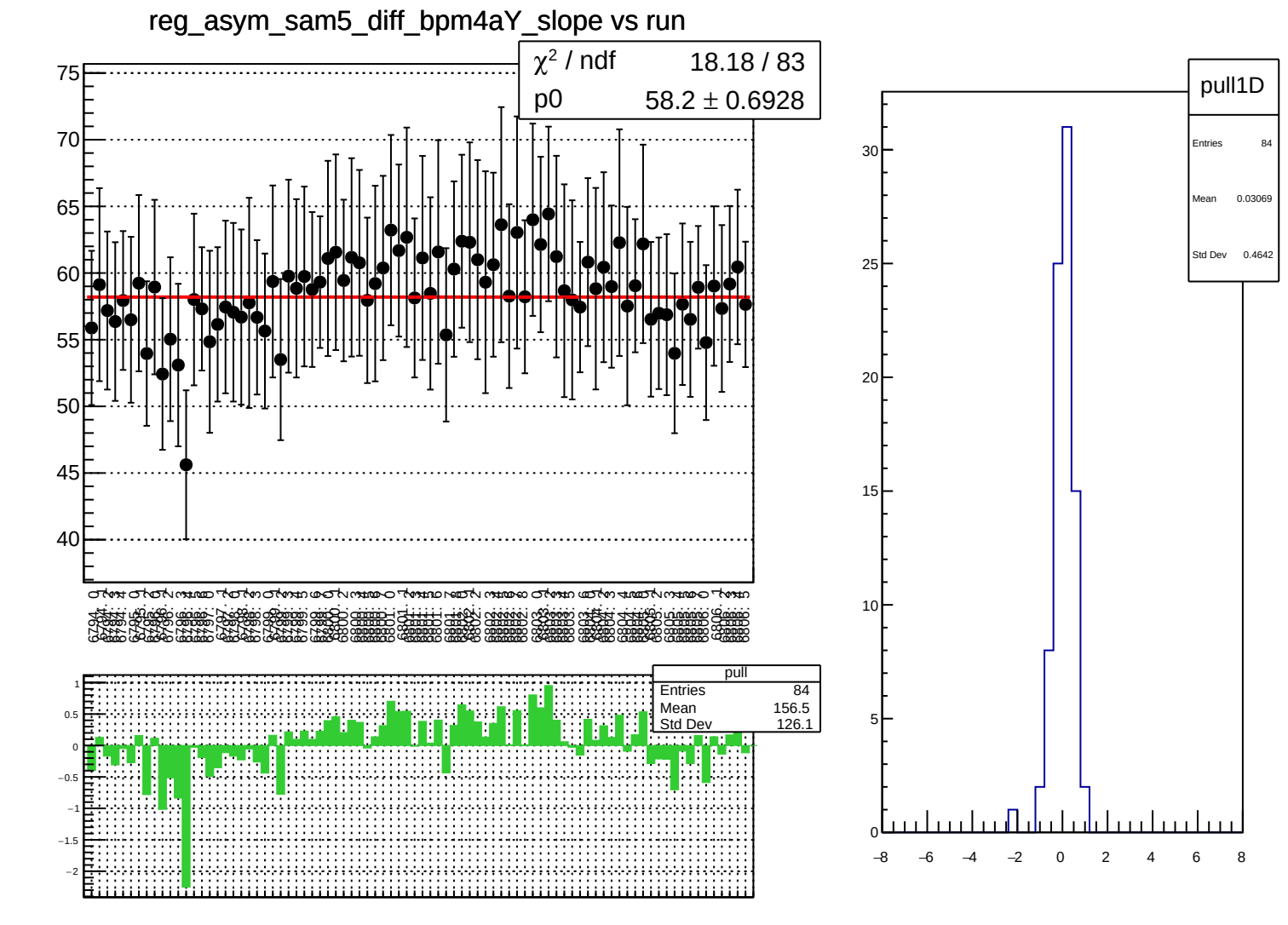

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 20.68 / 83
p0 202.7 ± 1.729
pull
Entries 84
Mean 19.49
Std Dev 58.89

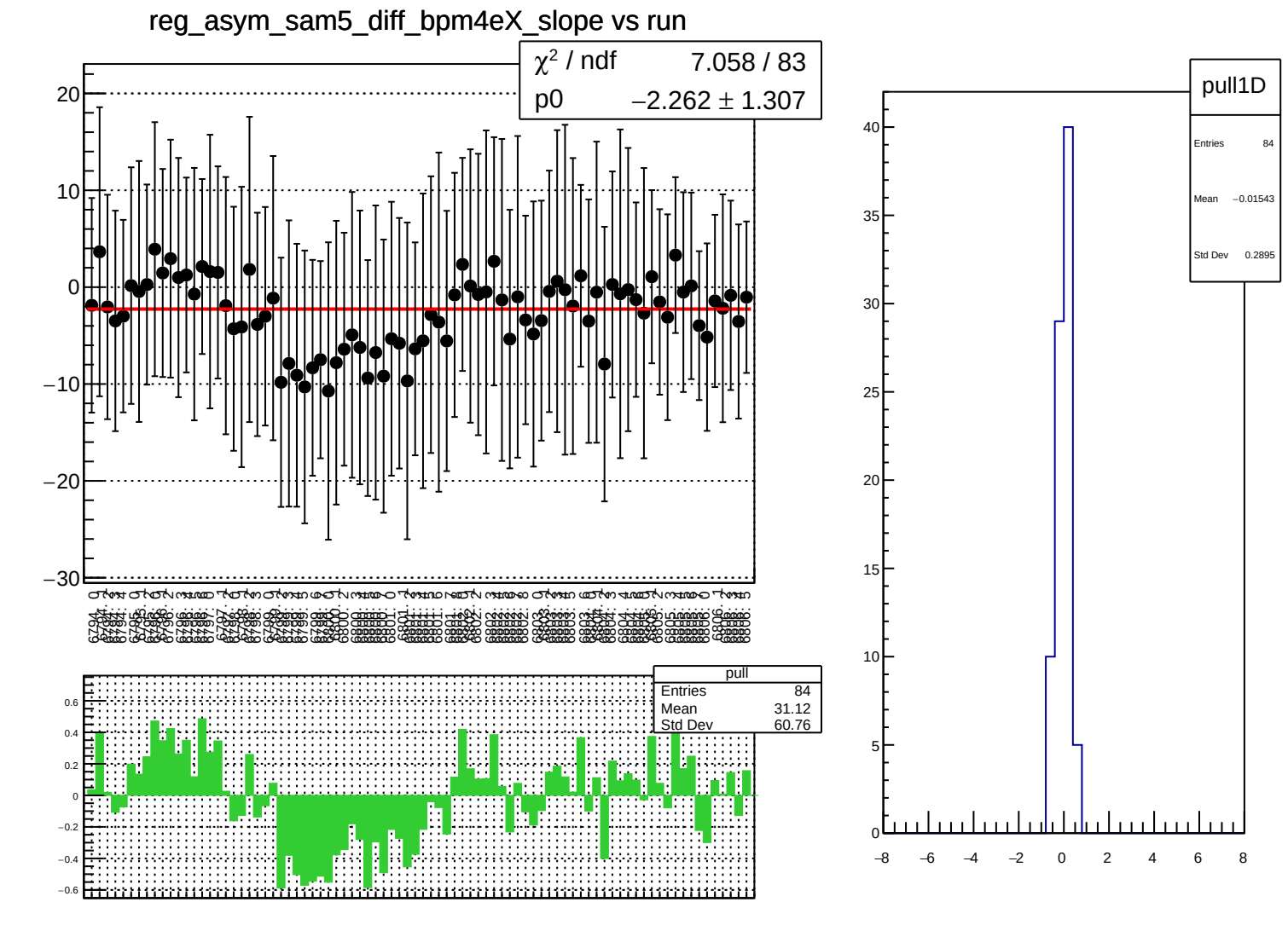

pull1D
Entries 84
Mean −0.02575
Std Dev 0.4955

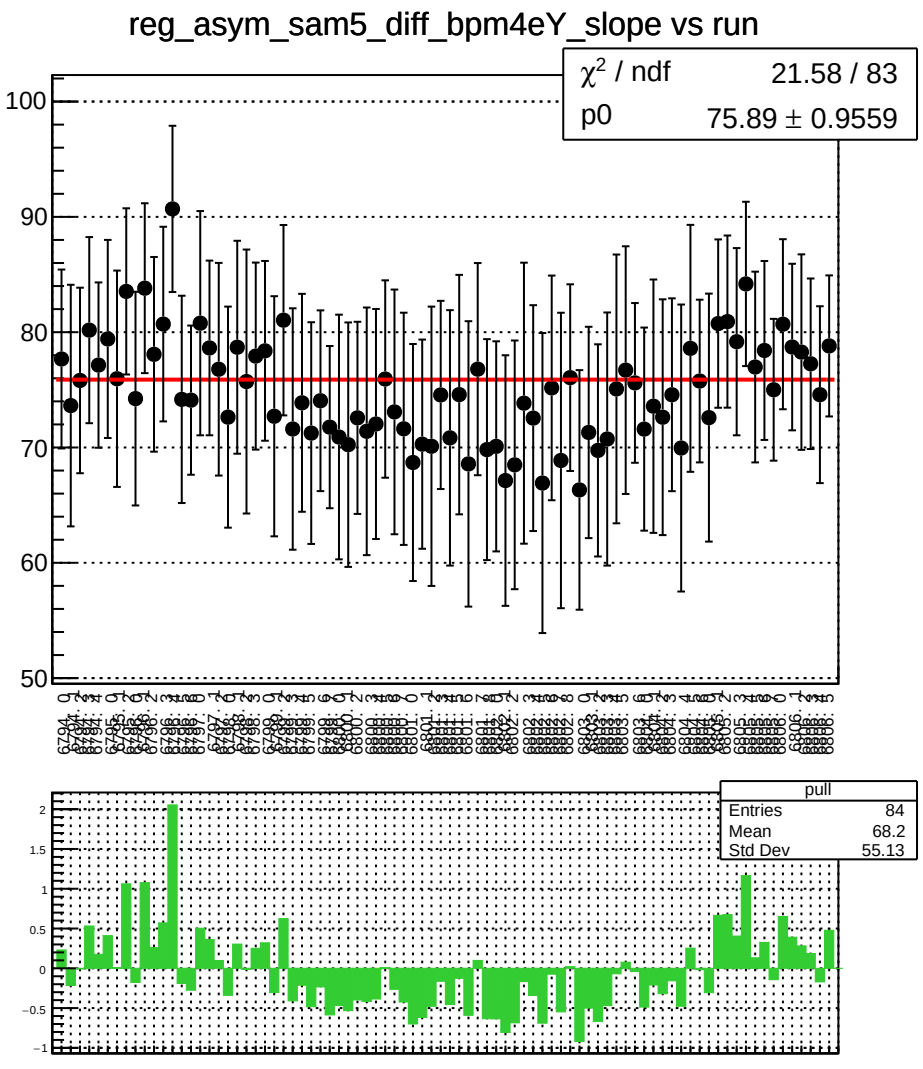

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 28.03 / 83
p0 −0.2278 ± 0.1017
pull
Entries 84
Mean −195.9
Std Dev 269.2
pull1D
Entries 84
Mean 0.01463
Std Dev 0.5775

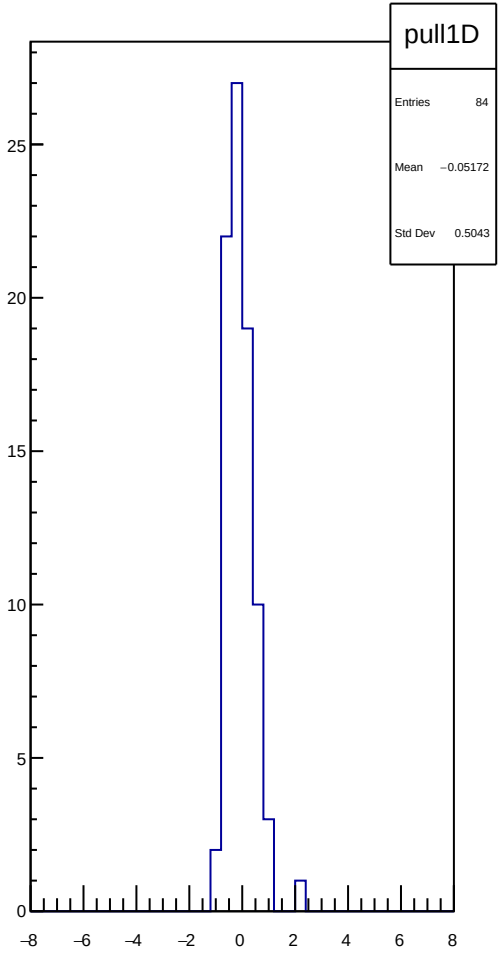

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 6.458 / 83
p0 13.22 ± 1.395
pull
Entries 84
Mean 23.86
Std Dev 56.54

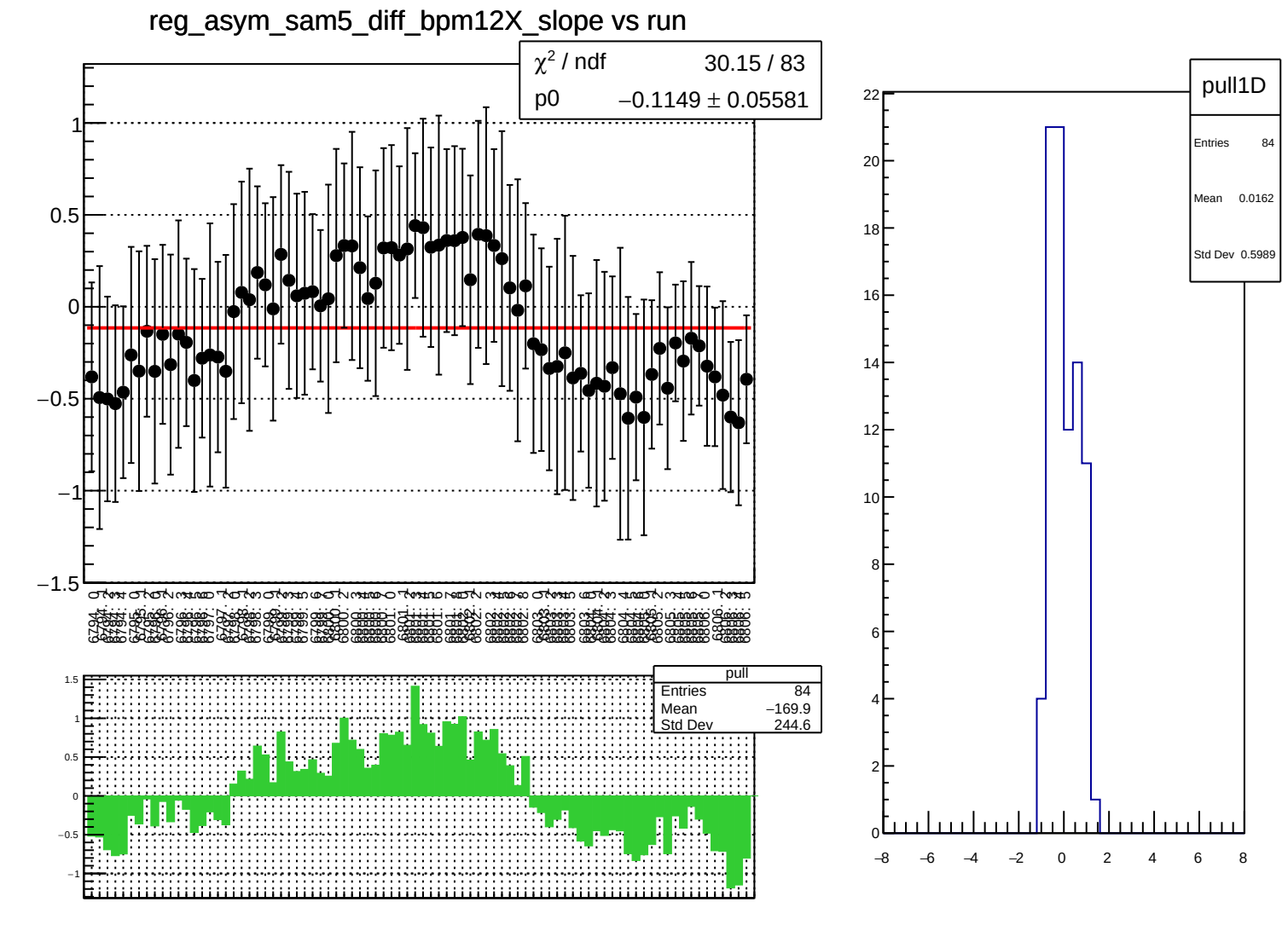

pull1D
Entries 84
Mean 0.01592
Std Dev 0.2768

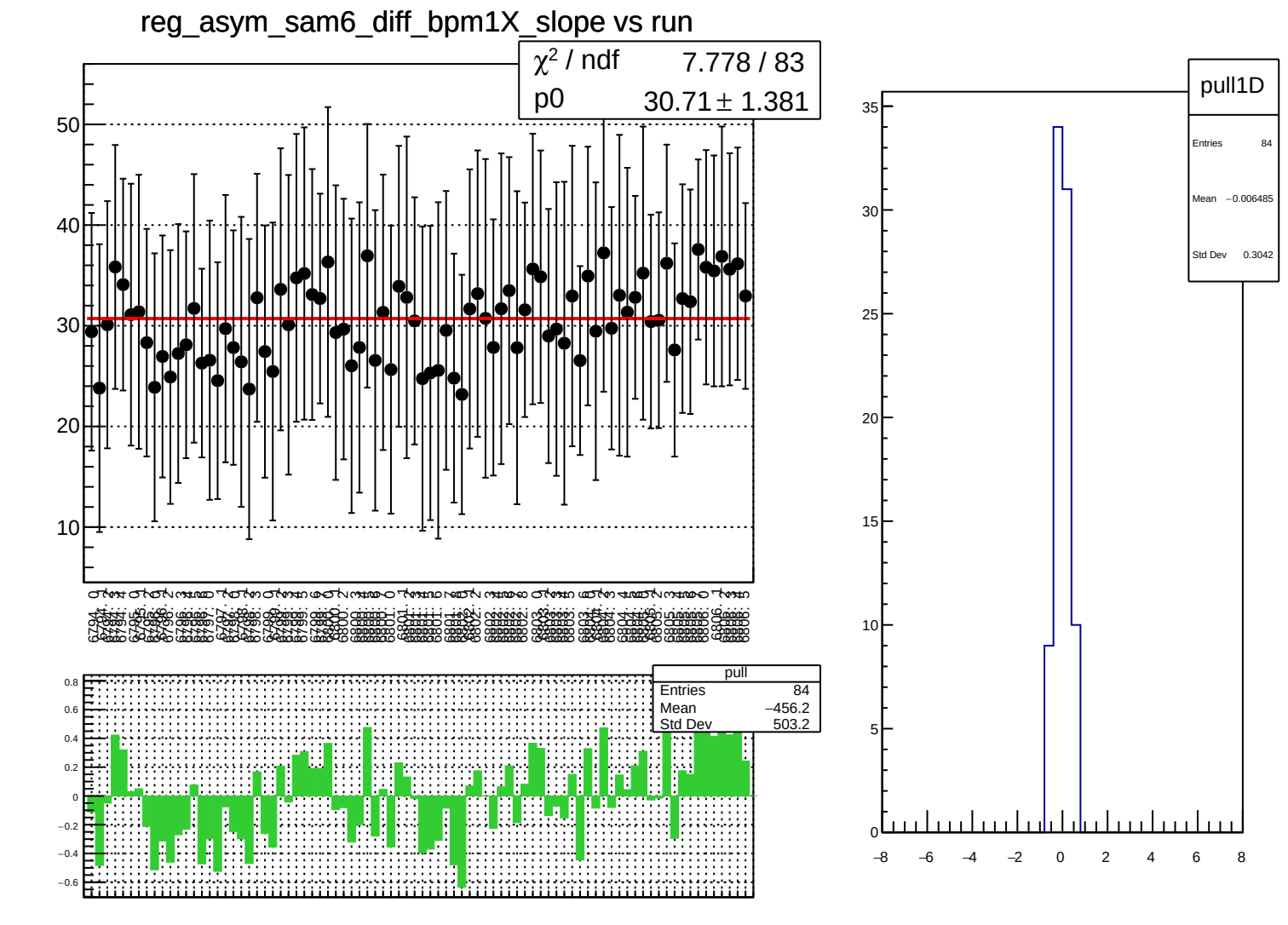

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 18.18 / 83
p0 58.2 ± 0.6928
pull
Entries 84
Mean 156.5
Std Dev 126.1
pull1D
Entries 84
Mean 0.03069
Std Dev 0.4642

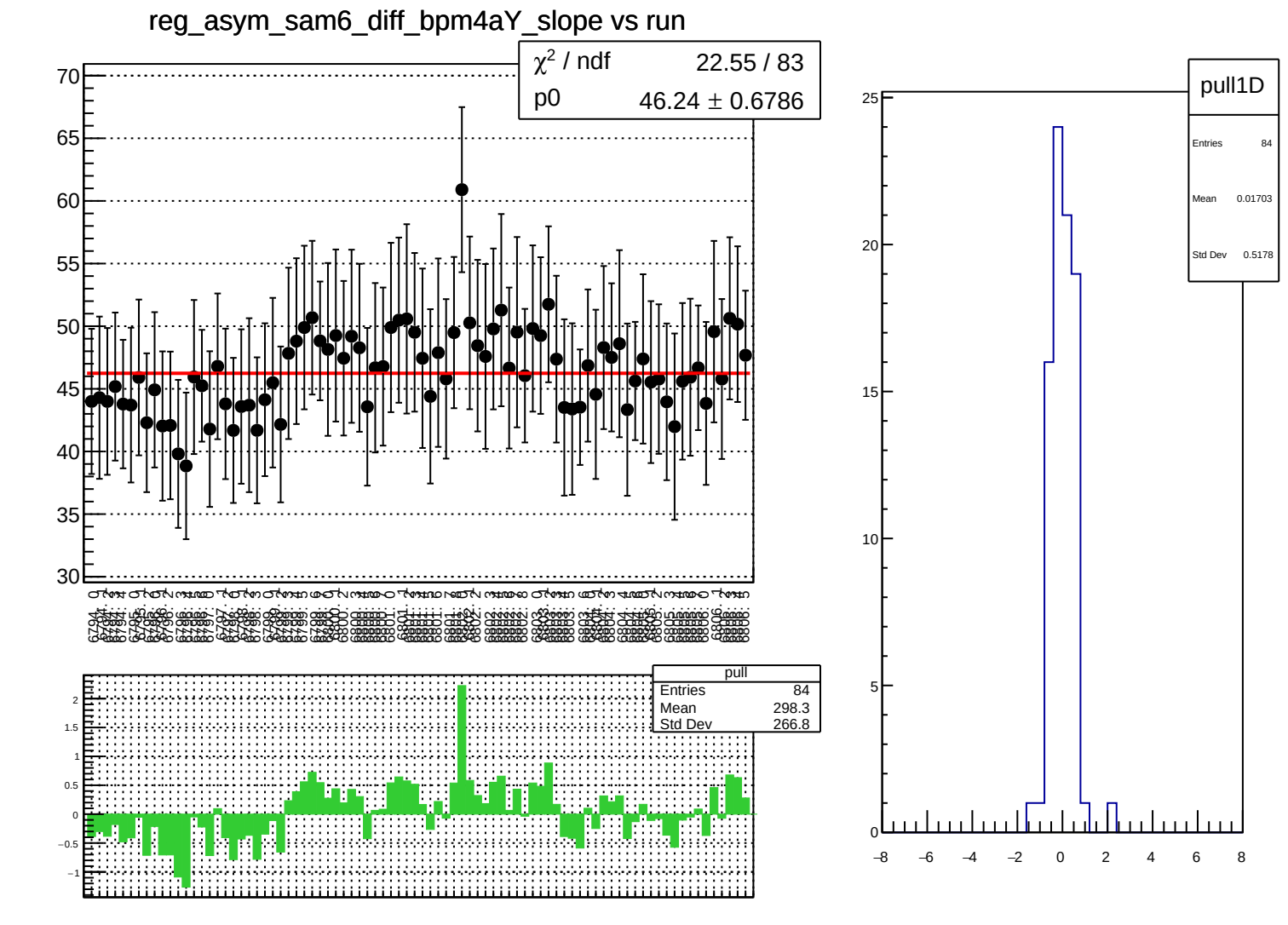

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 7.058 / 83
p0 −2.262 ± 1.307
pull
Entries 84
Mean 31.12
Std Dev 60.76
pull1D
Entries 84
Mean −0.01543
Std Dev 0.2895

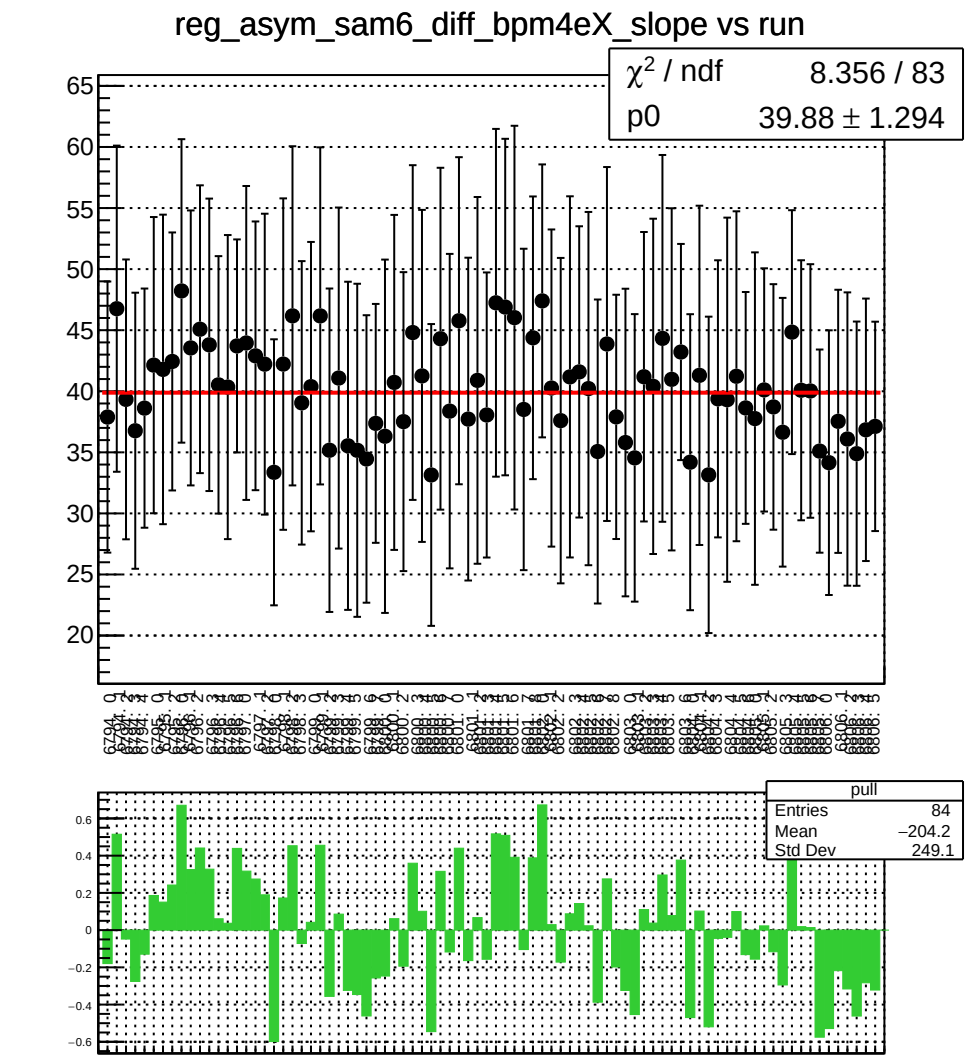

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 21.58 / 83
p0 75.89 ± 0.9559
pull
Entries 84
Mean 68.2
Std Dev 55.13

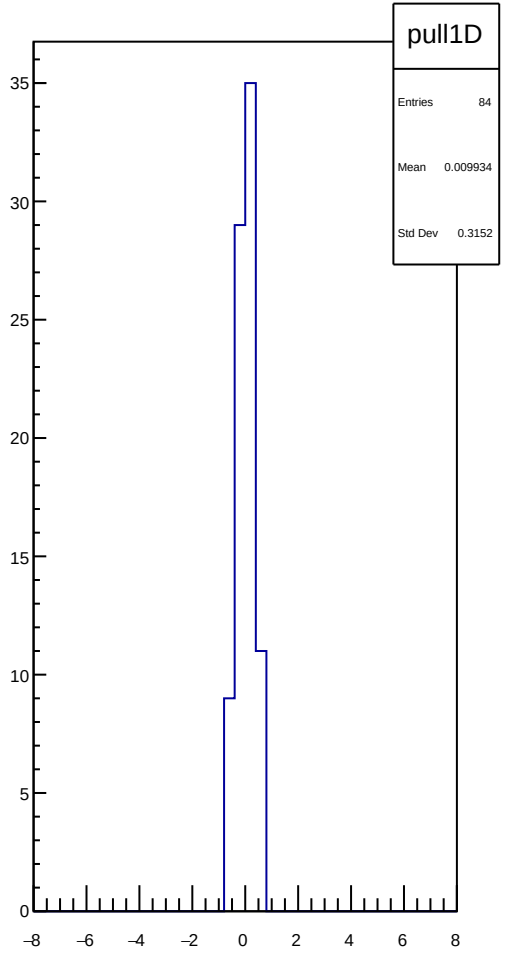

pull1D
Entries 84
Mean −0.05172
Std Dev 0.5043

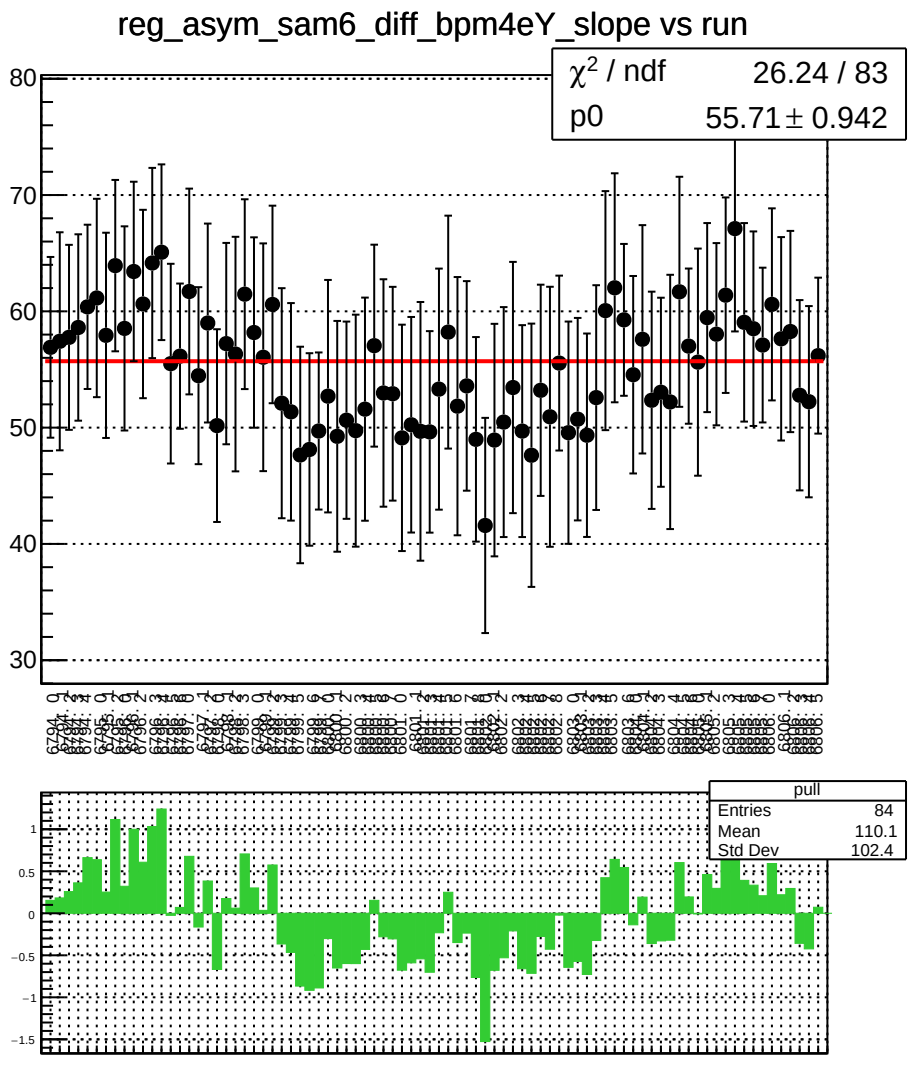

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 30.15 / 83
p0 −0.1149 ± 0.05581
pull
Entries 84
Mean −169.9
Std Dev 244.6
pull1D
Entries 84
Mean 0.0162
Std Dev 0.5989

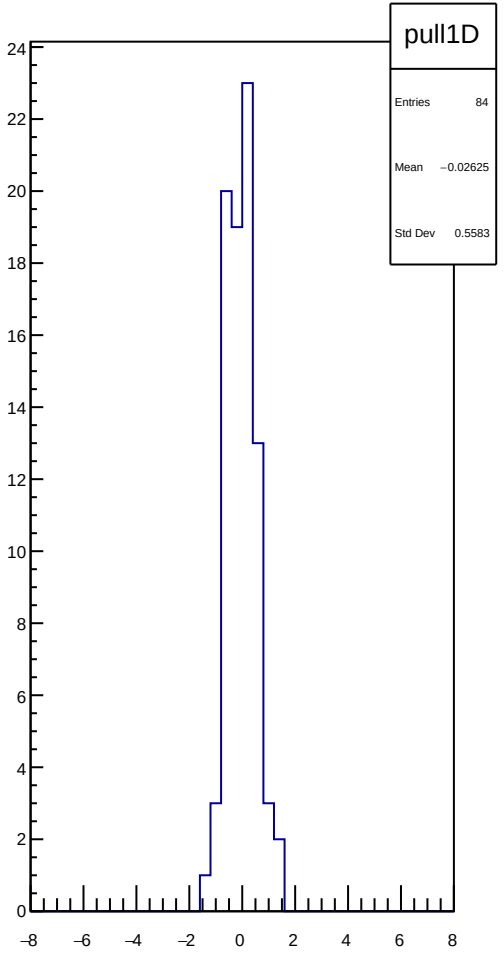

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 7.778 / 83
p0 30.71 ± 1.381
pull
Entries 84
Mean −456.2
Std Dev 503.2
pull1D
Entries 84
Mean −0.006485
Std Dev 0.3042

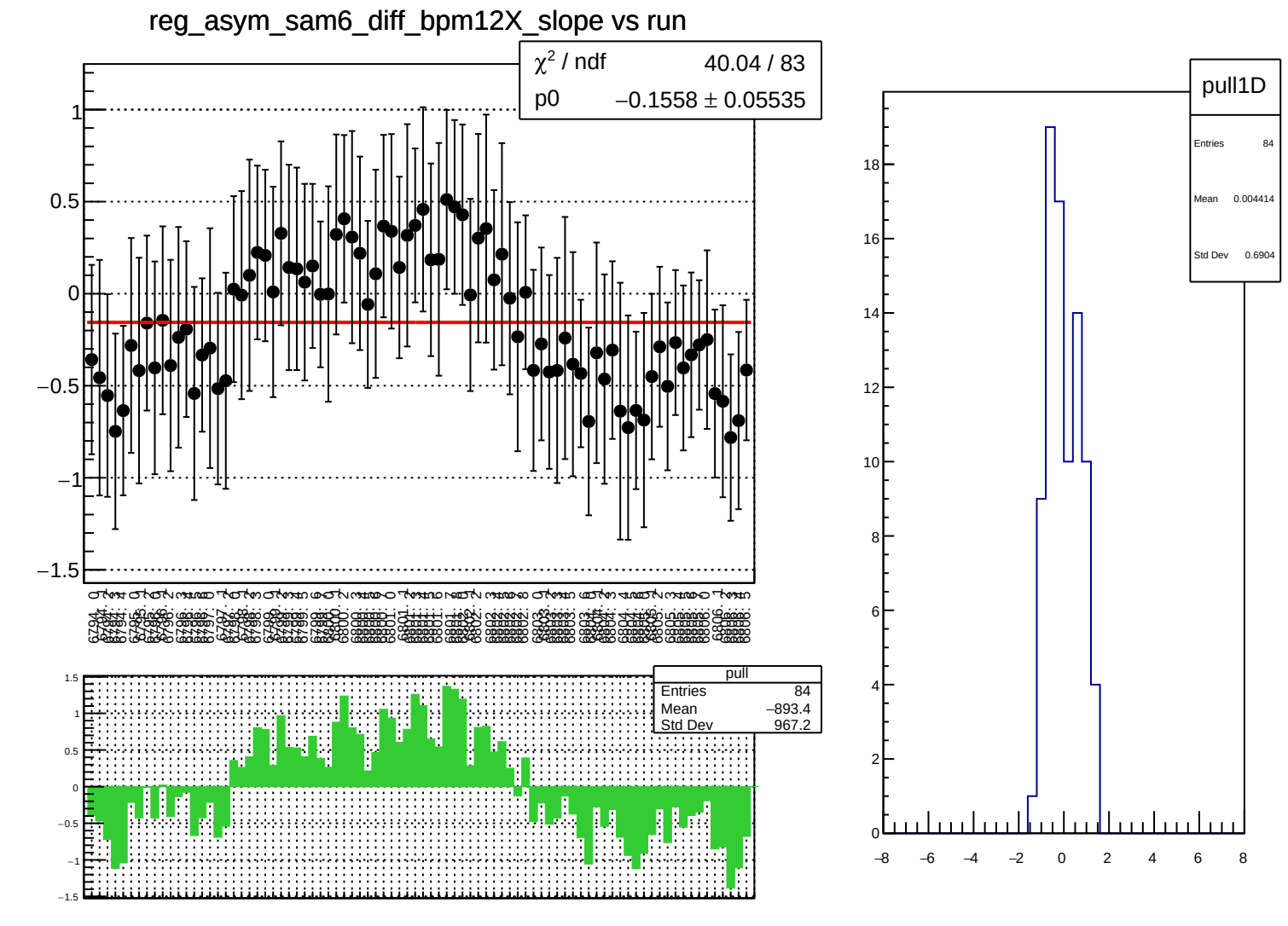

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 22.55 / 83
p0 46.24 ± 0.6786
pull
Entries 84
Mean 298.3
Std Dev 266.8
pull1D
Entries 84
Mean 0.01703
Std Dev 0.5178

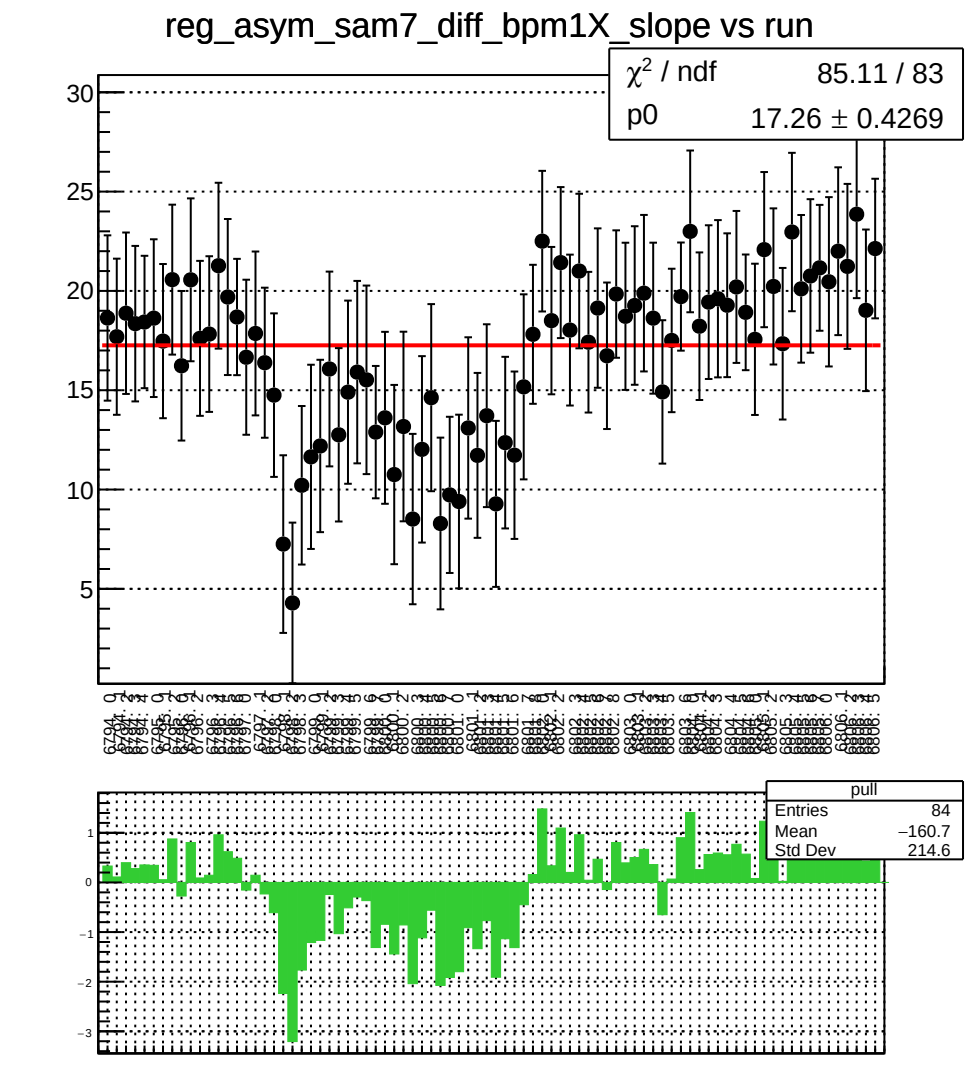

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 8.356 / 83
p0 39.88 ± 1.294
pull
Entries 84
Mean −204.2
Std Dev 249.1

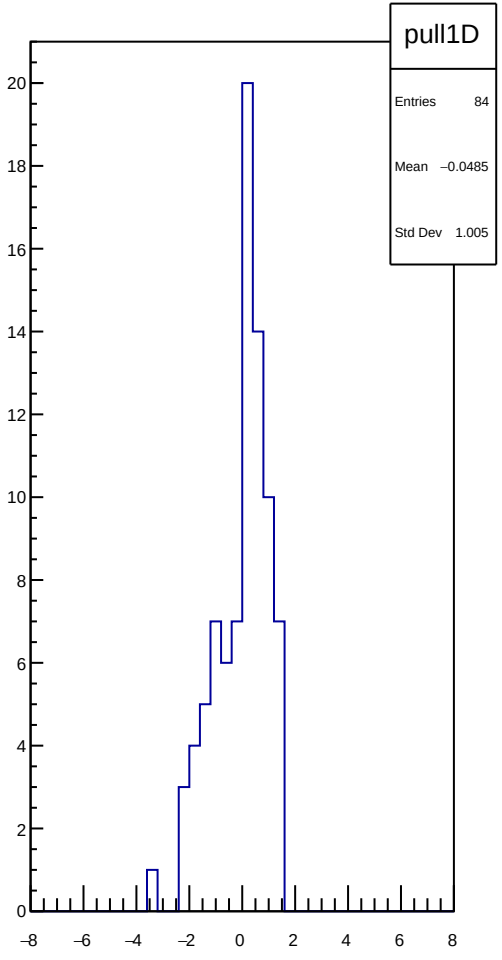

pull1D
Entries 84
Mean 0.009934
Std Dev 0.3152

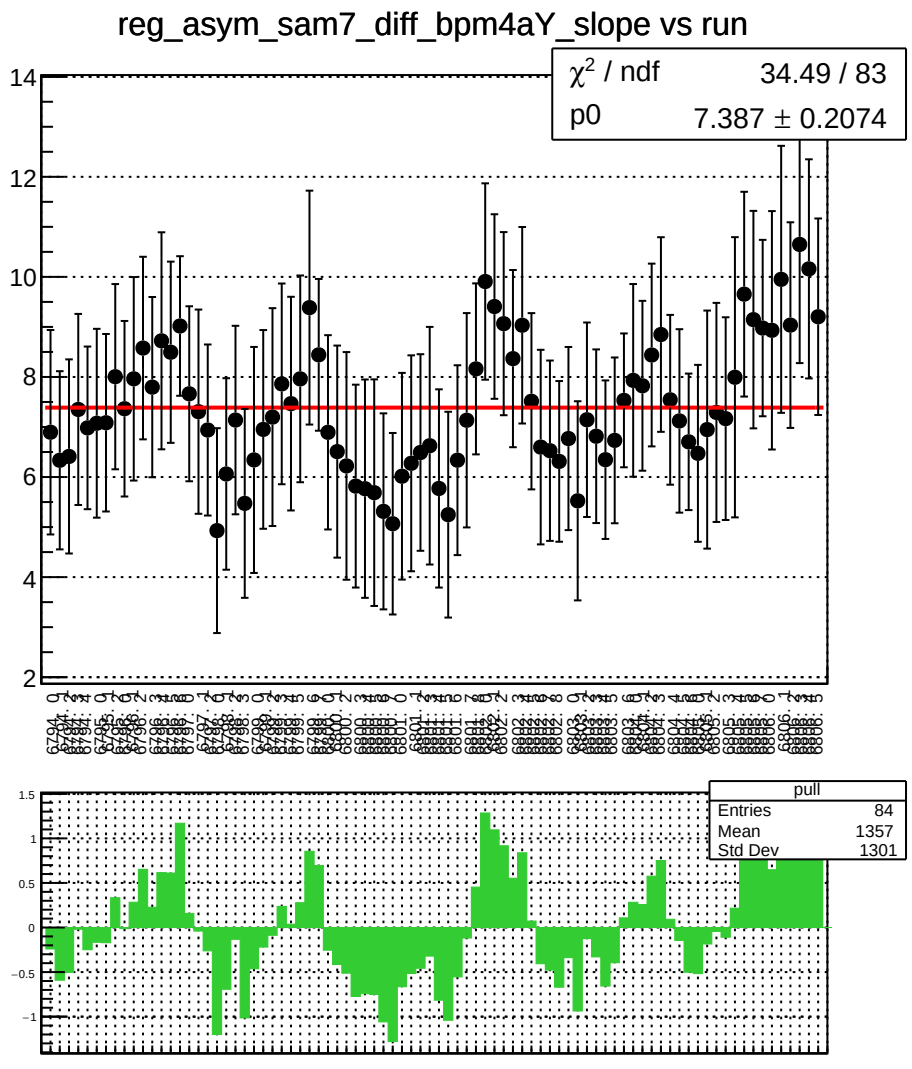

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 26.24 / 83
p0 55.71 ± 0.942
pull
Entries 84
Mean 110.1
Std Dev 102.4

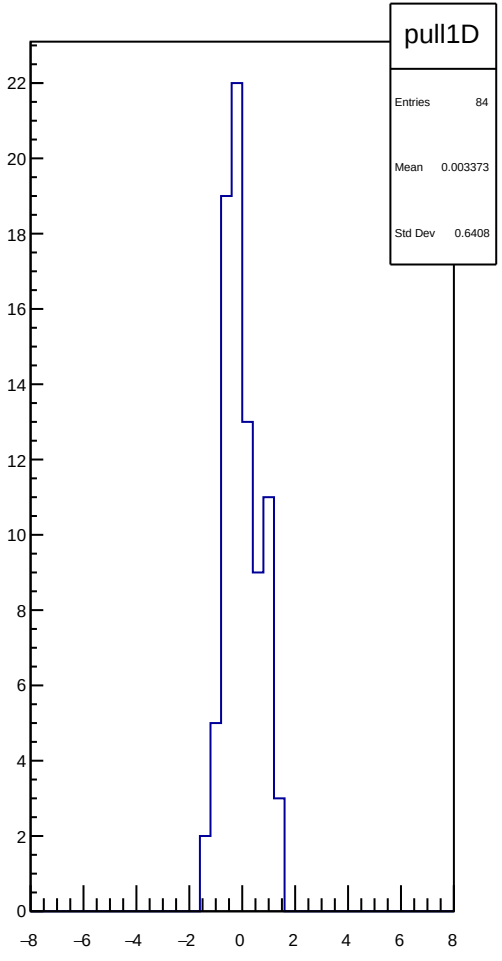

pull1D
Entries 84
Mean −0.02625
Std Dev 0.5583

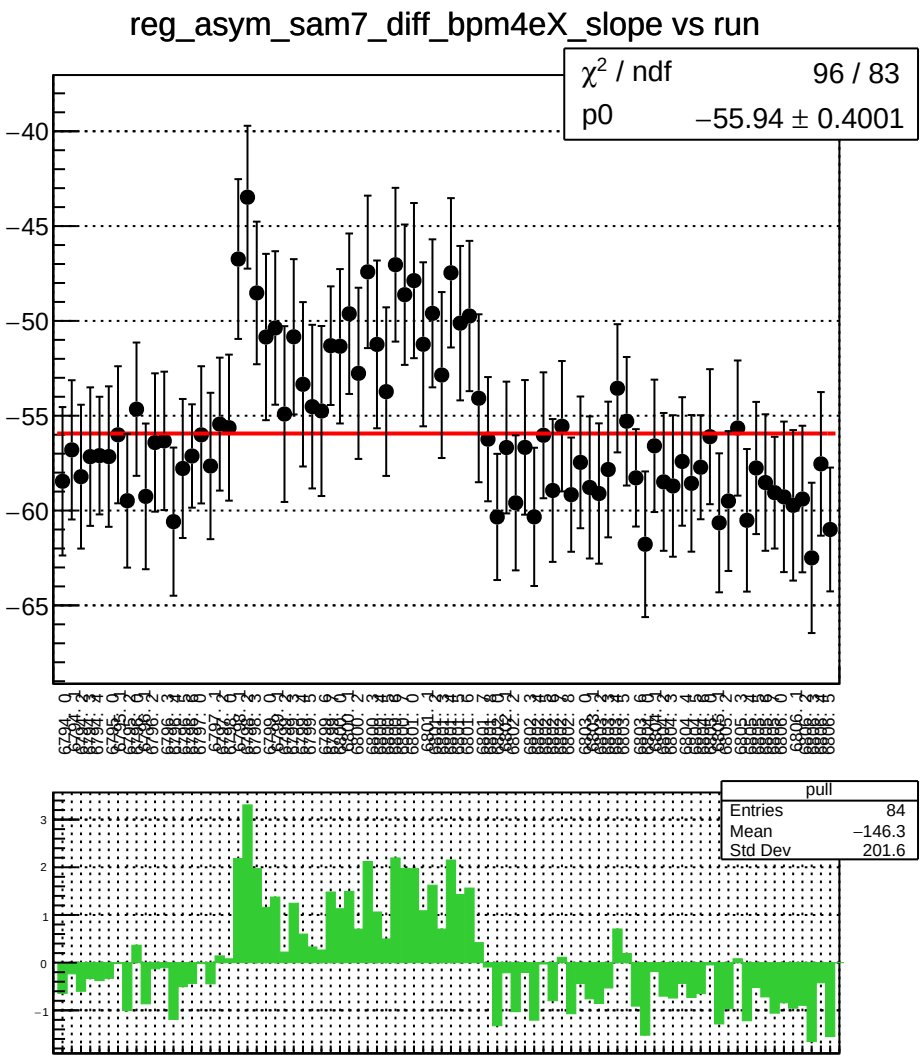

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 40.04 / 83
p0 −0.1558 ± 0.05535
pull
Entries 84
Mean −893.4
Std Dev 967.2
pull1D
Entries 84
Mean 0.004414
Std Dev 0.6904

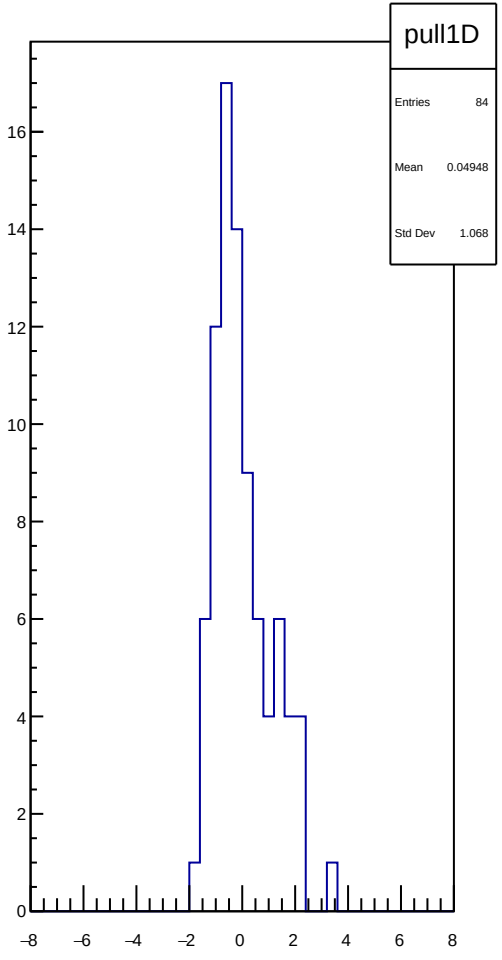

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 85.11 / 83
p0 17.26 ± 0.4269
pull
Entries 84
Mean −160.7
Std Dev 214.6

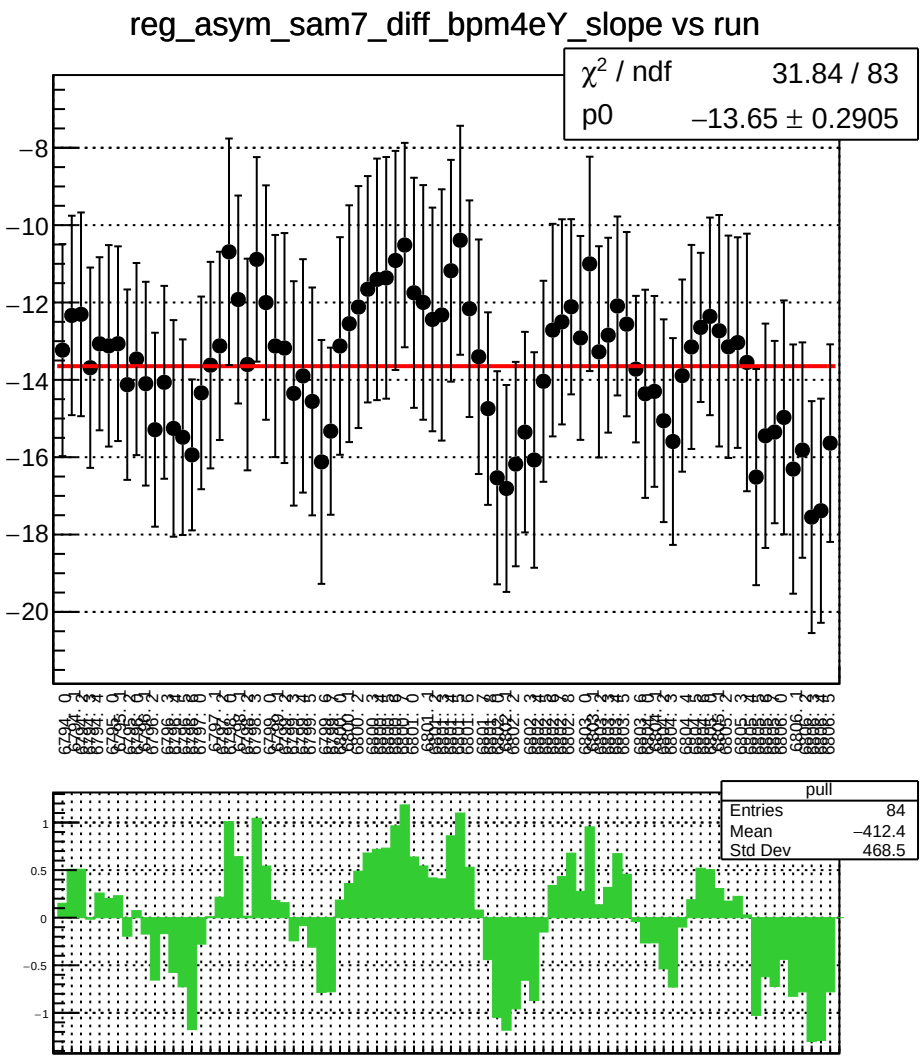

pull1D
Entries 84
Mean −0.0485
Std Dev 1.005

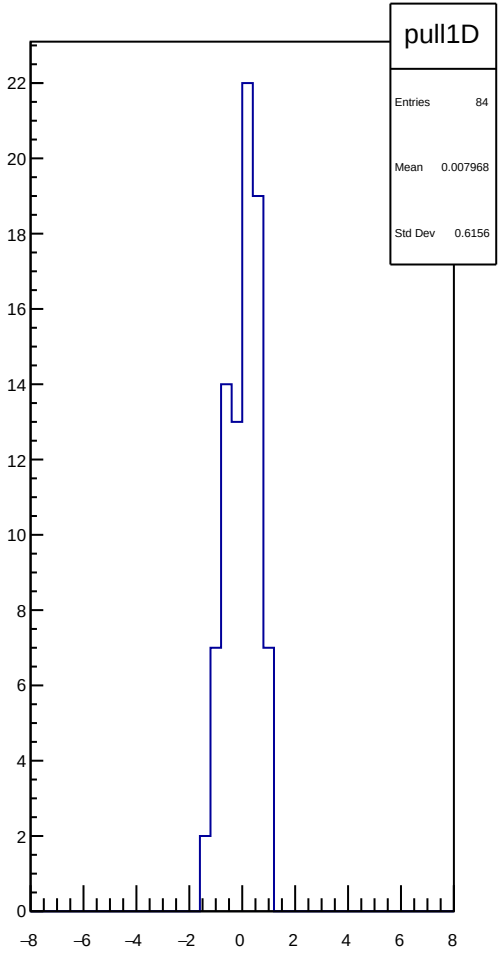

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 34.49 / 83
p0 7.387 ± 0.2074
pull
Entries 84
Mean 1357
Std Dev 1301

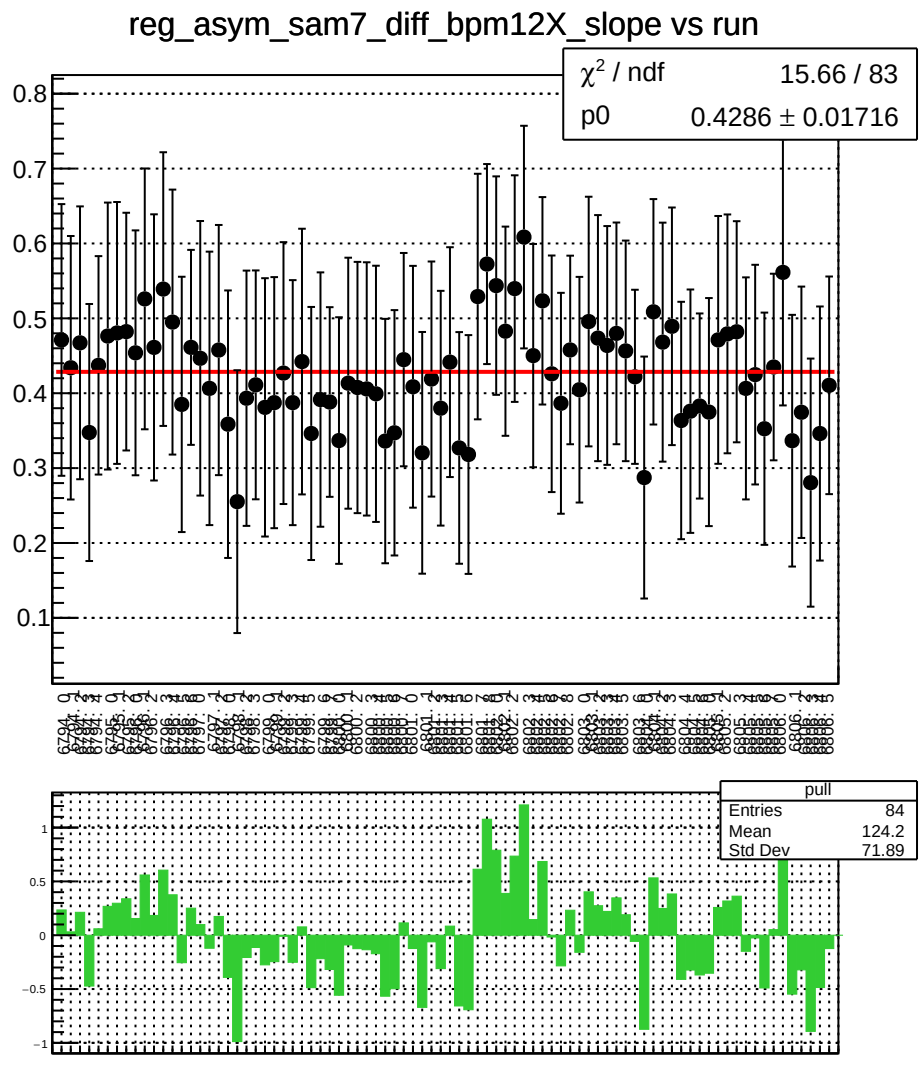

pull1D
Entries 84
Mean 0.003373
Std Dev 0.6408

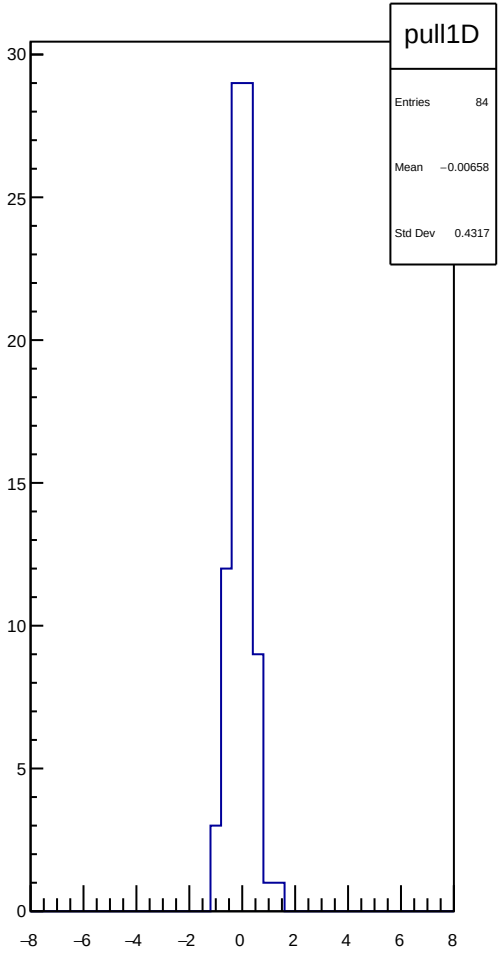

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 96 / 83
p0 −55.94 ± 0.4001
pull
Entries 84
Mean −146.3
Std Dev 201.6

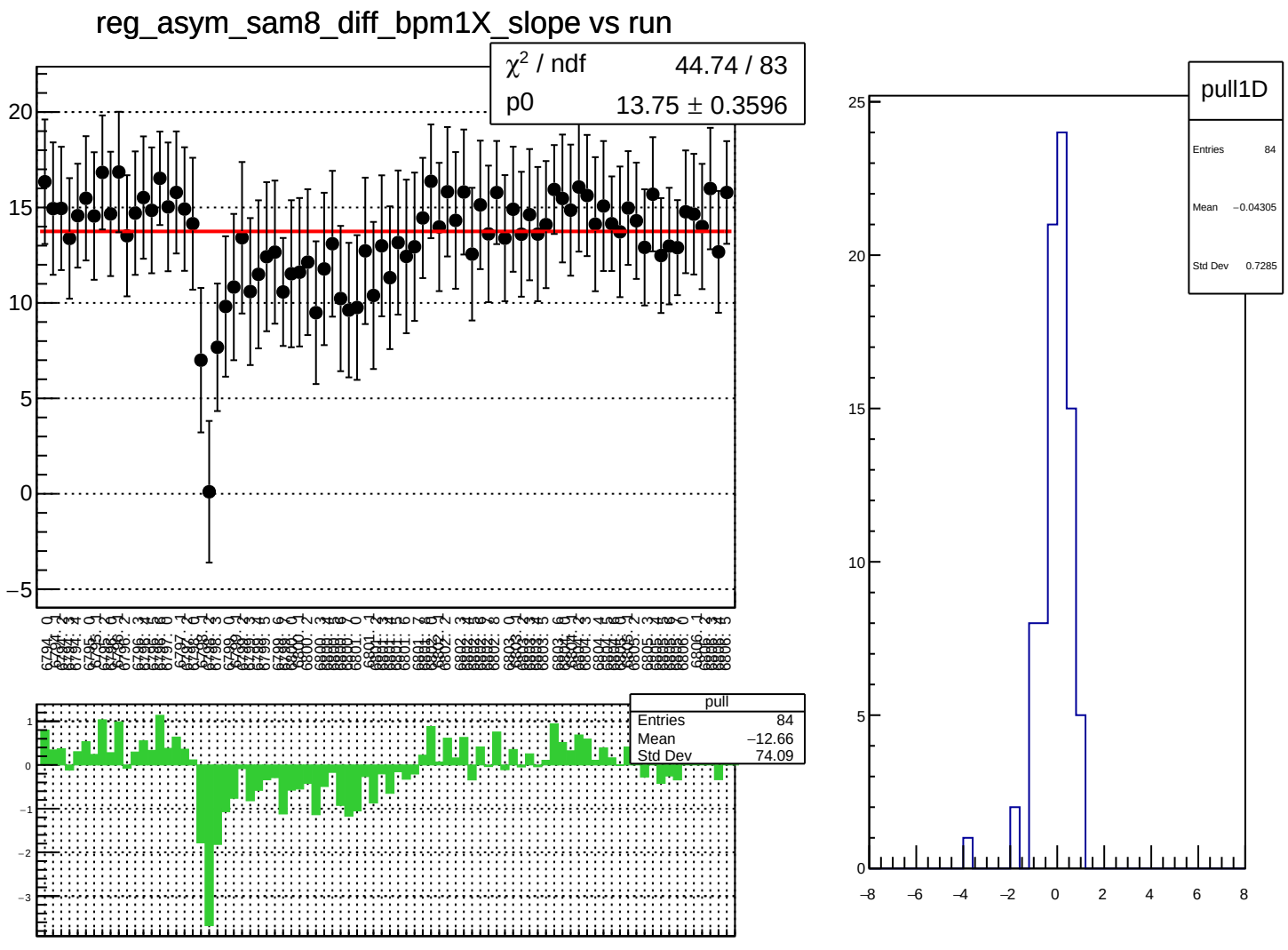

pull1D
Entries 84
Mean 0.04948
Std Dev 1.068

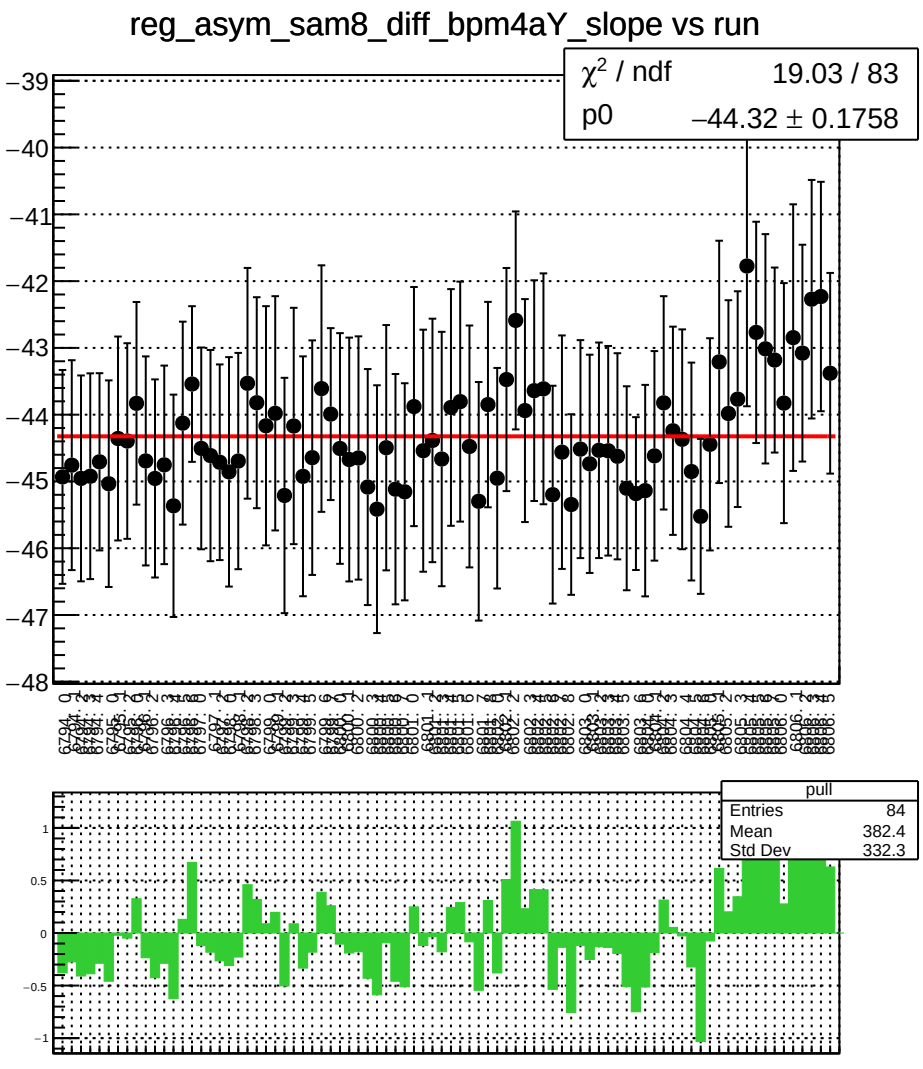

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 31.84 / 83
p0 −13.65 ± 0.2905
pull
Entries 84
Mean −412.4
Std Dev 468.5

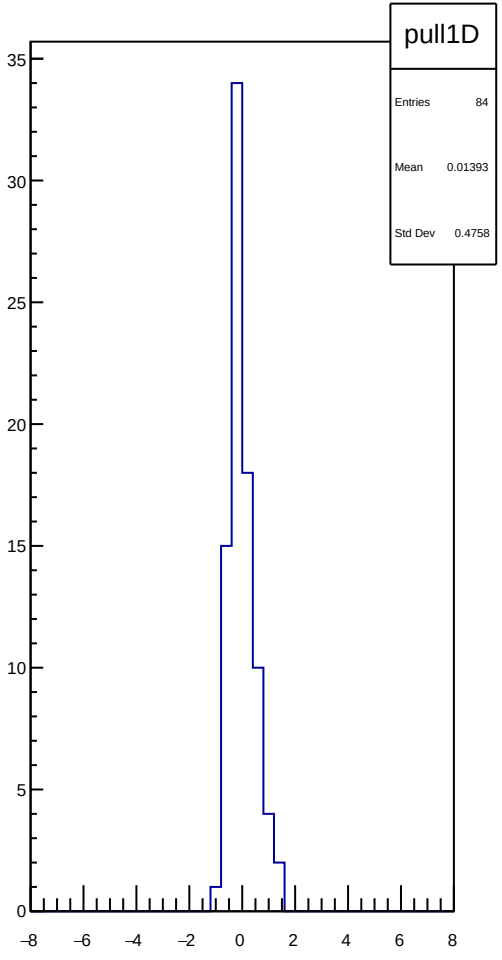

pull1D
Entries 84
Mean 0.007968
Std Dev 0.6156

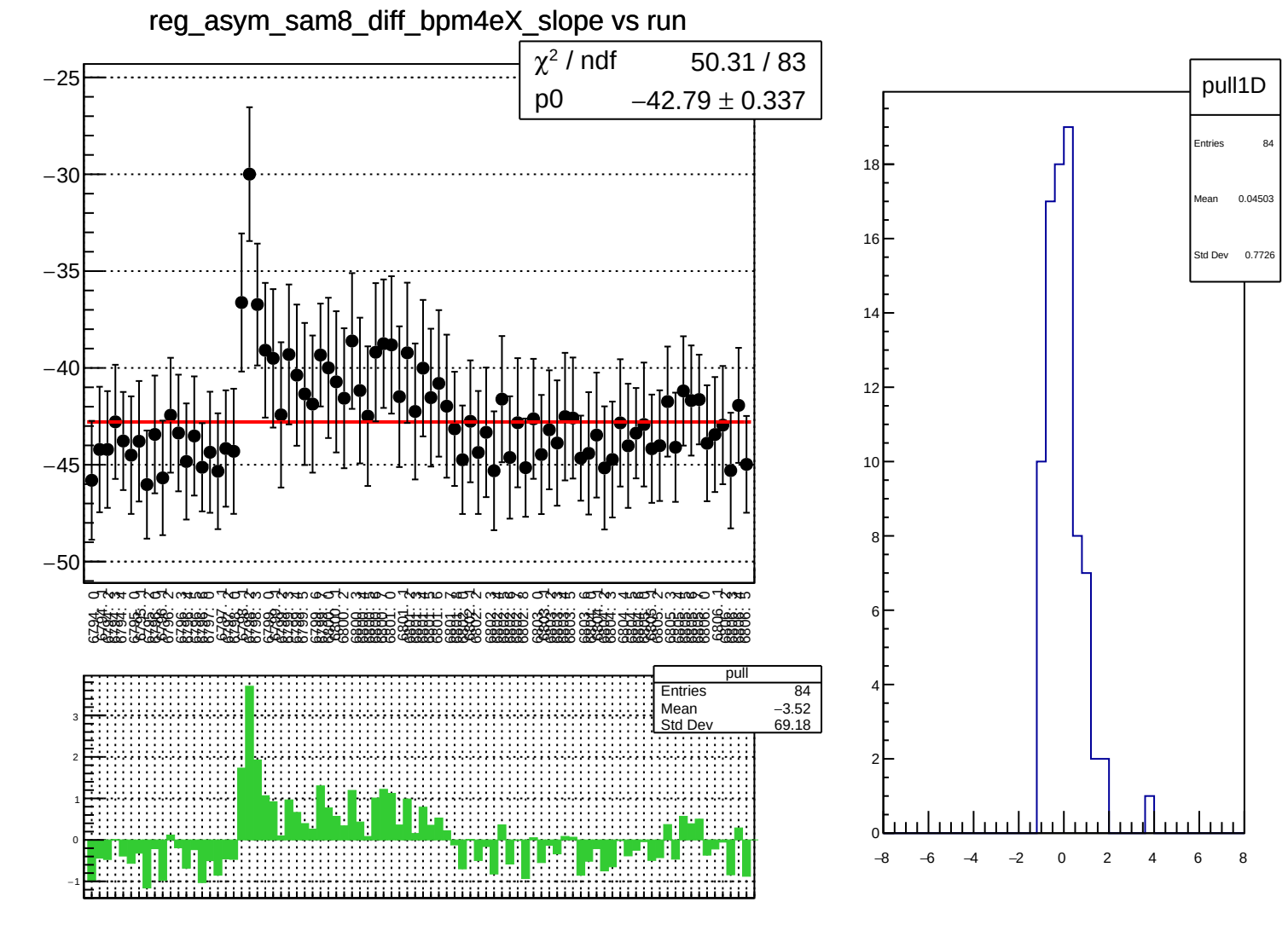

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 15.66 / 83
p0 0.4286 ± 0.01716
pull
Entries 84
Mean 124.2
Std Dev 71.89

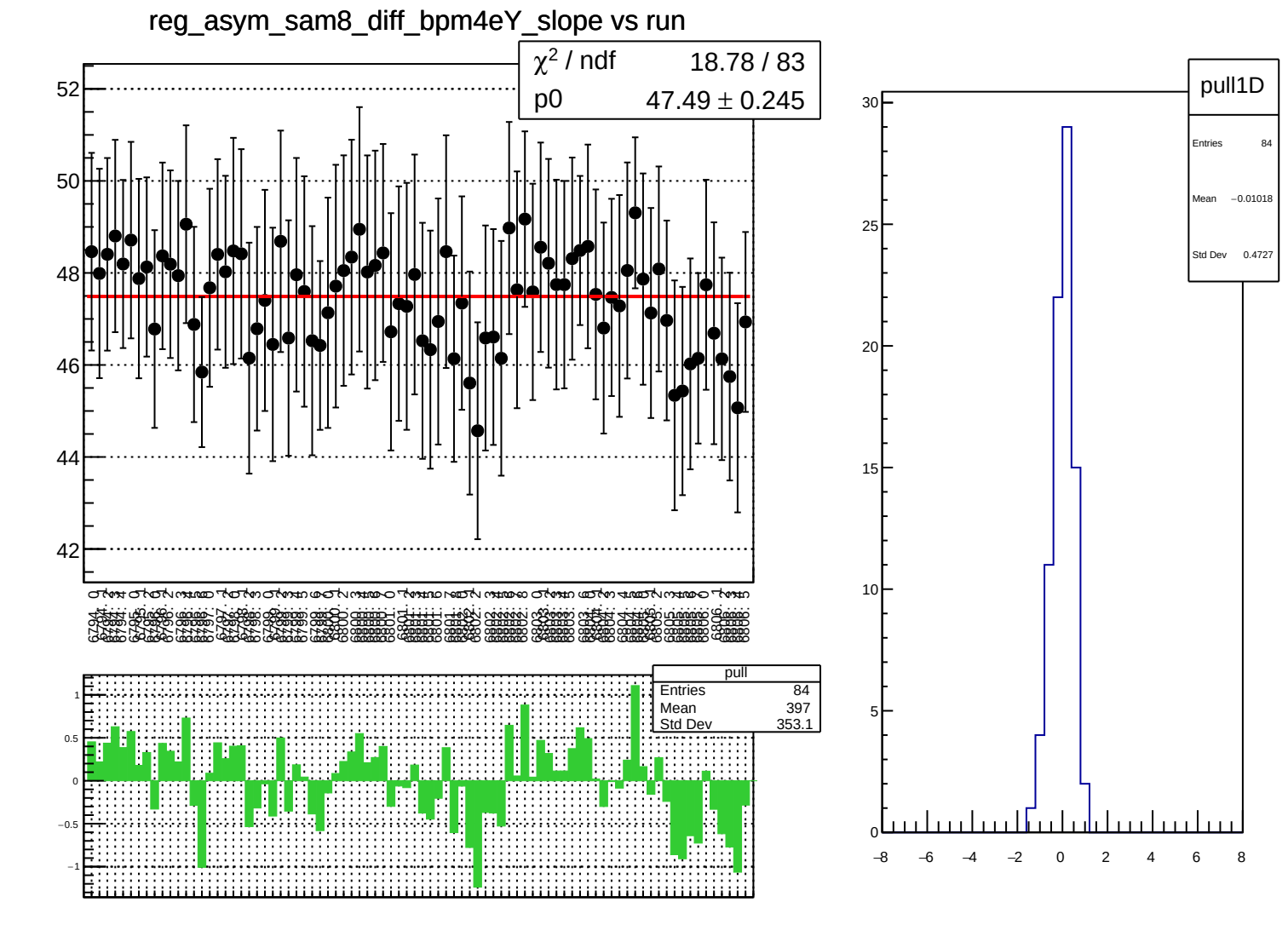

pull1D
Entries 84
Mean −0.00658
Std Dev 0.4317

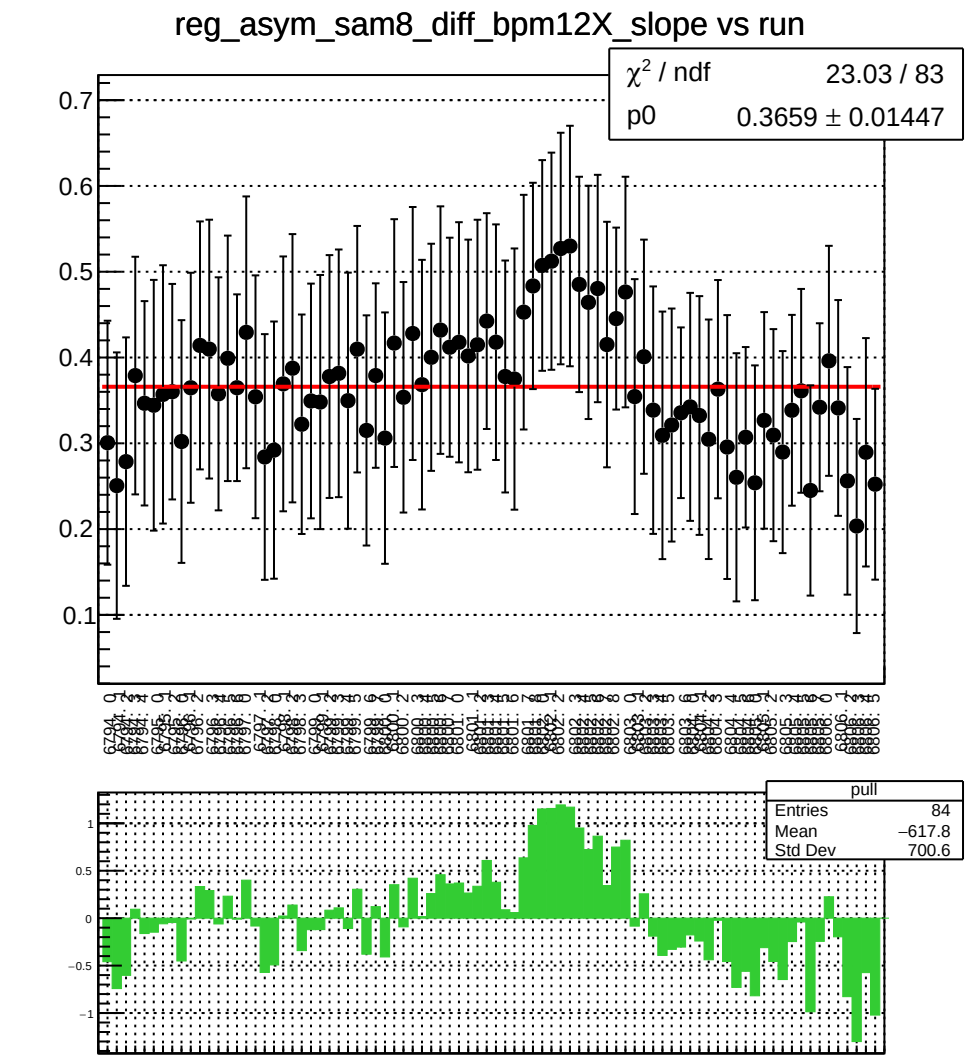

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 44.74 / 83
p0 13.75 ± 0.3596
pull
Entries 84
Mean −12.66
Std Dev 74.09
pull1D
Entries 84
Mean −0.04305
Std Dev 0.7285

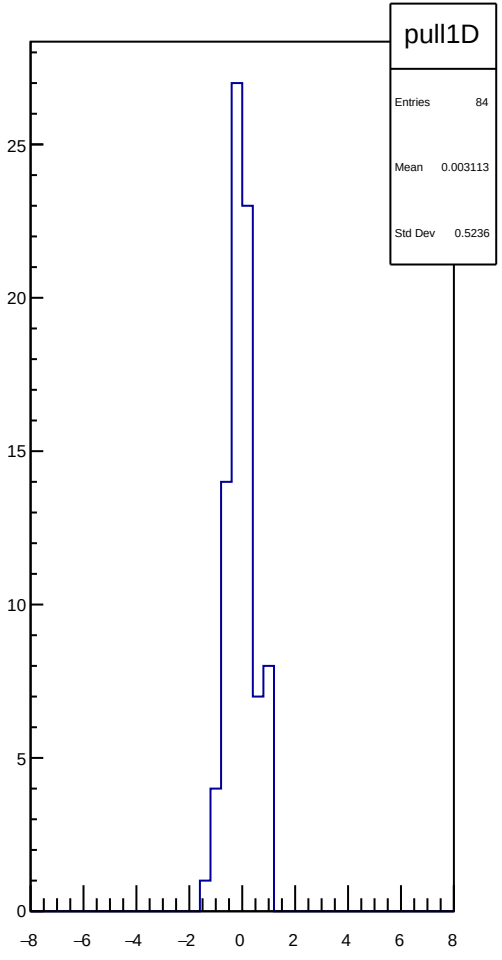

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 19.03 / 83
p0 −44.32 ± 0.1758
pull
Entries 84
Mean 382.4
Std Dev 332.3

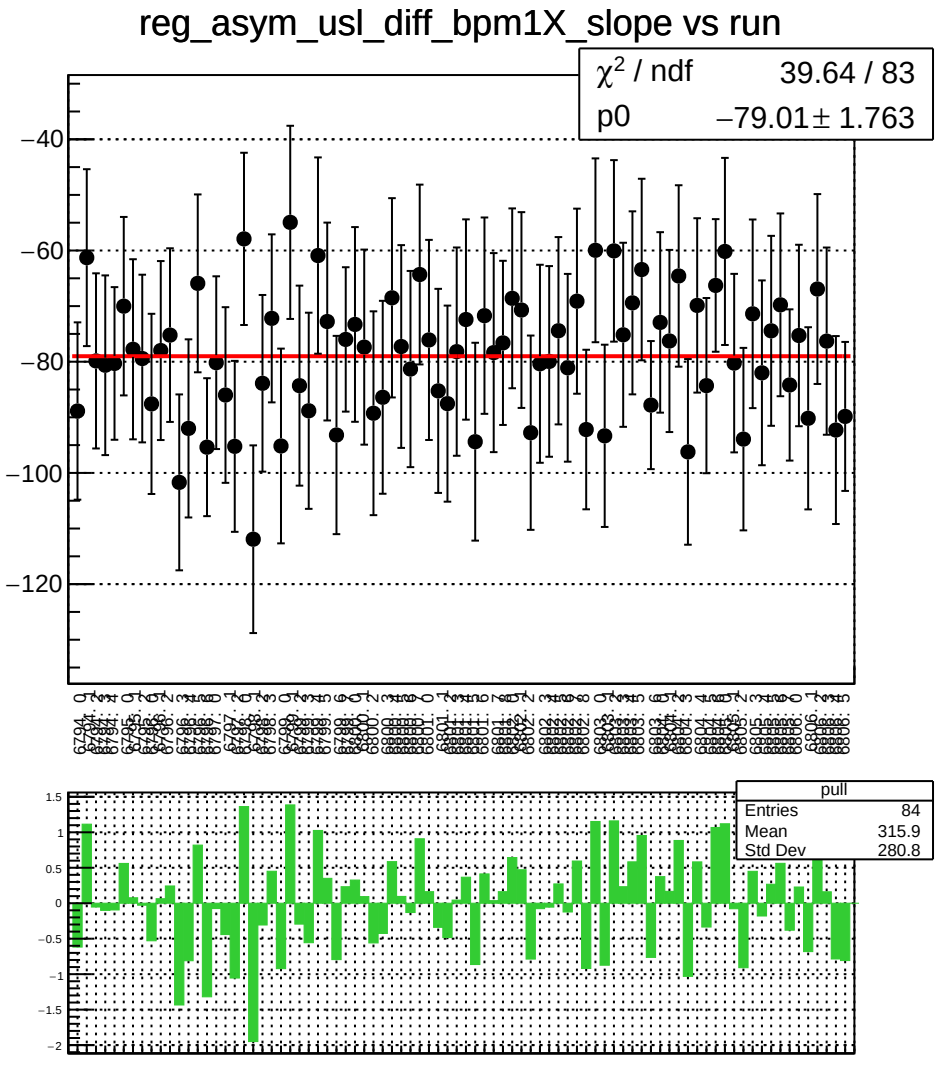

pull1D
Entries 84
Mean 0.01393
Std Dev 0.4758

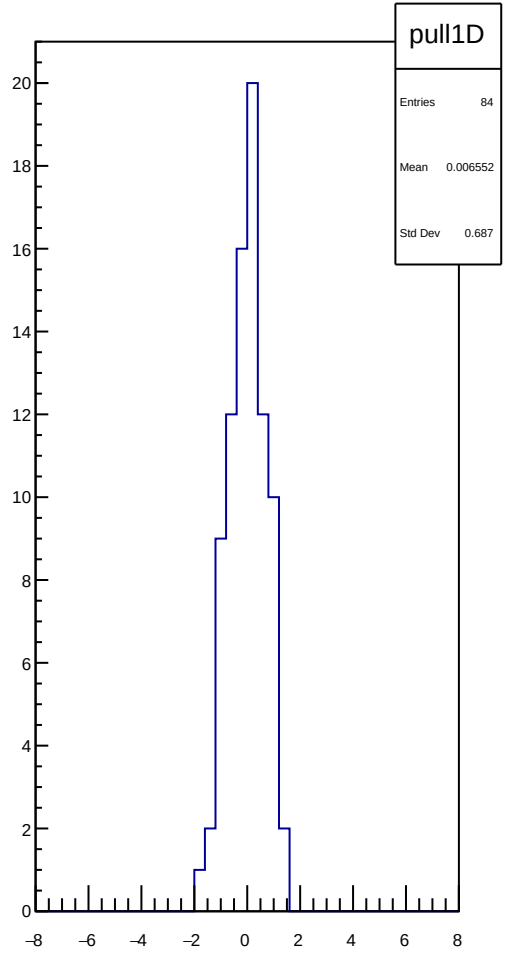

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 50.31 / 83
p0 −42.79 ± 0.337
pull
Entries 84
Mean −3.52
Std Dev 69.18
pull1D
Entries 84
Mean 0.04503
Std Dev 0.7726

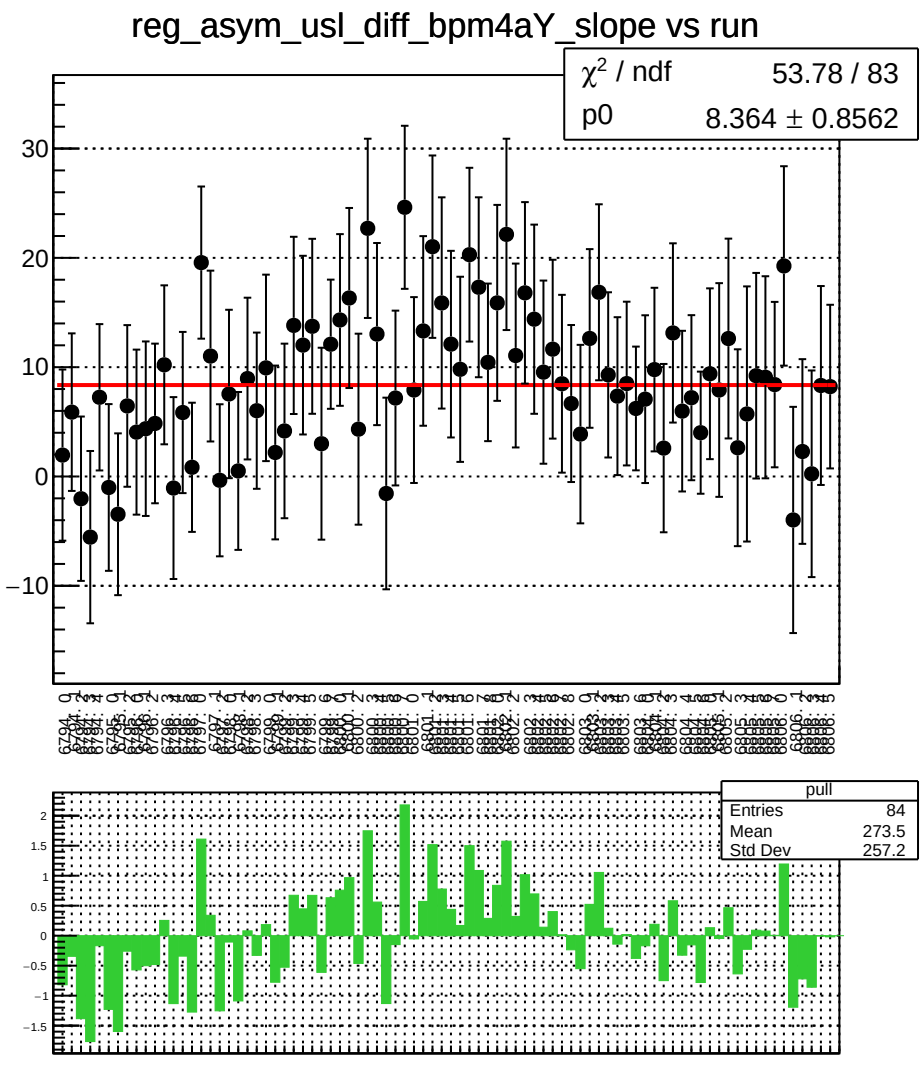

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 18.78 / 83
p0 47.49 ± 0.245
52
50
48
46
44
42
pull
Entries 84
Mean 397
Std Dev 353.1
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean −0.01018
Std Dev 0.4727
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

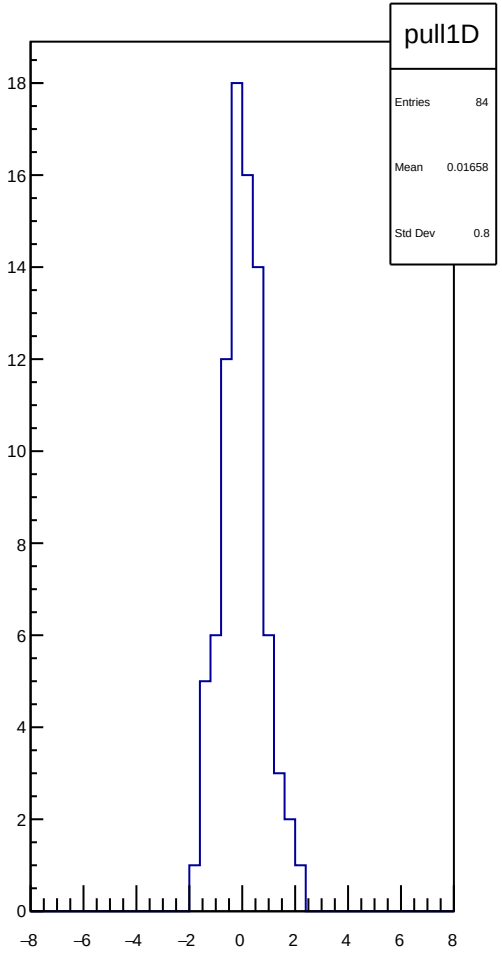

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 23.03 / 83
p0 0.3659 ± 0.01447
pull
Entries 84
Mean −617.8
Std Dev 700.6

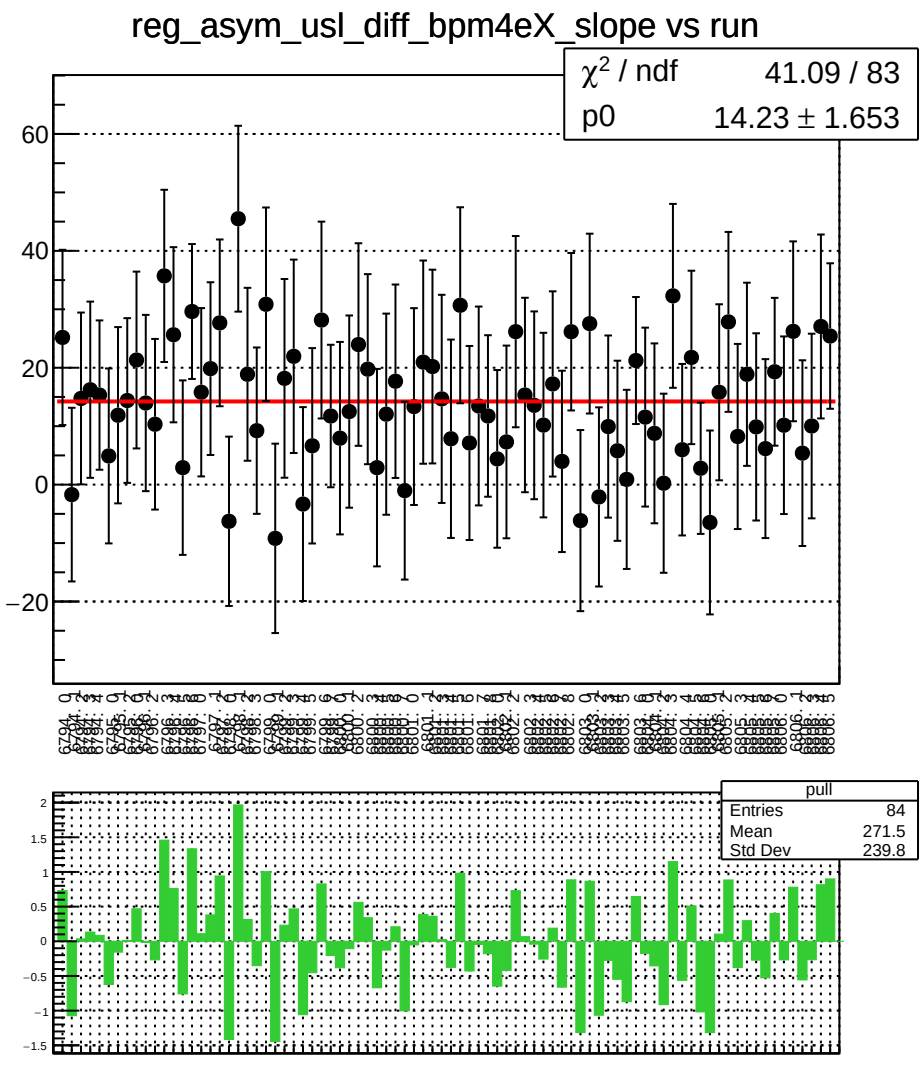

pull1D
Entries 84
Mean 0.003113
Std Dev 0.5236

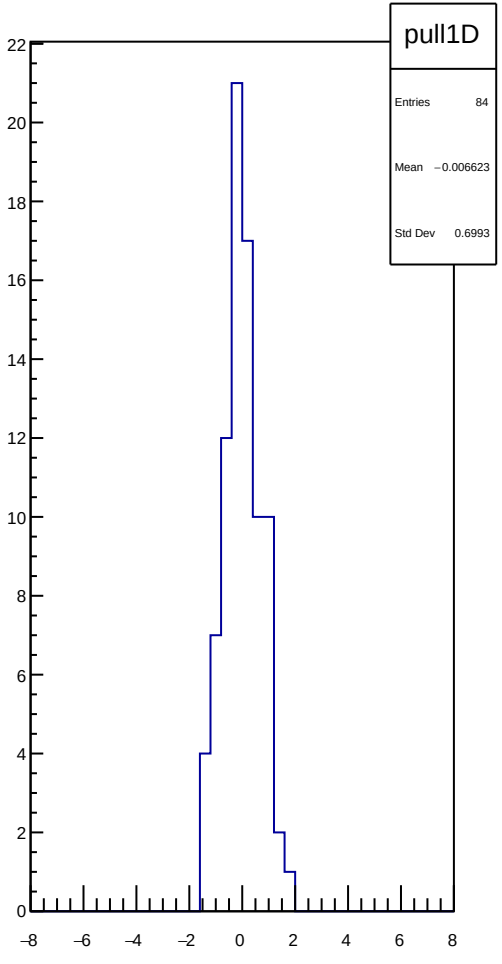

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 39.64 / 83
p0 −79.01± 1.763
−40
−60
−80
−100
−120
pull
Entries 84
Mean 315.9
Std Dev 280.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

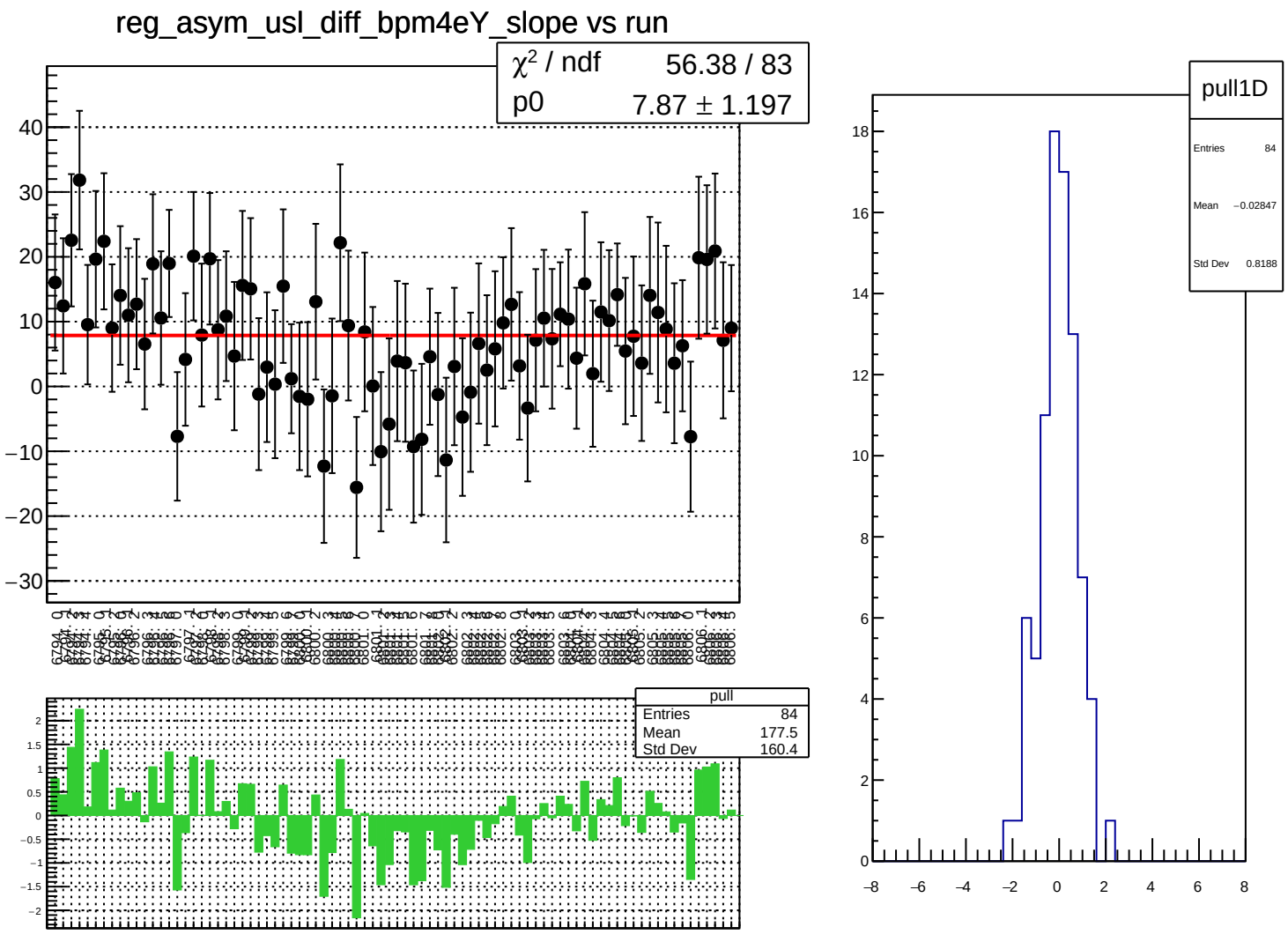

pull1D
Entries 84
Mean 0.006552
Std Dev 0.687
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

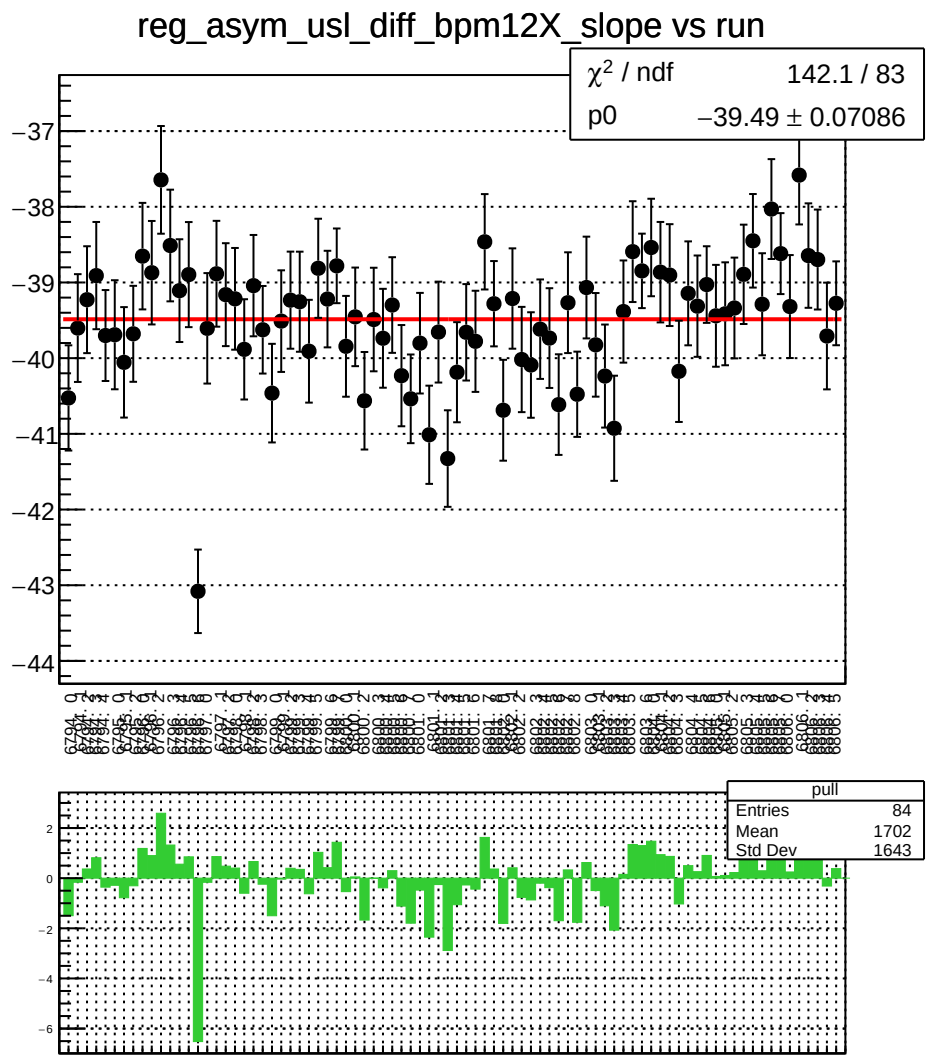

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 53.78 / 83
p0 8.364 ± 0.8562
pull
Entries 84
Mean 273.5
Std Dev 257.2

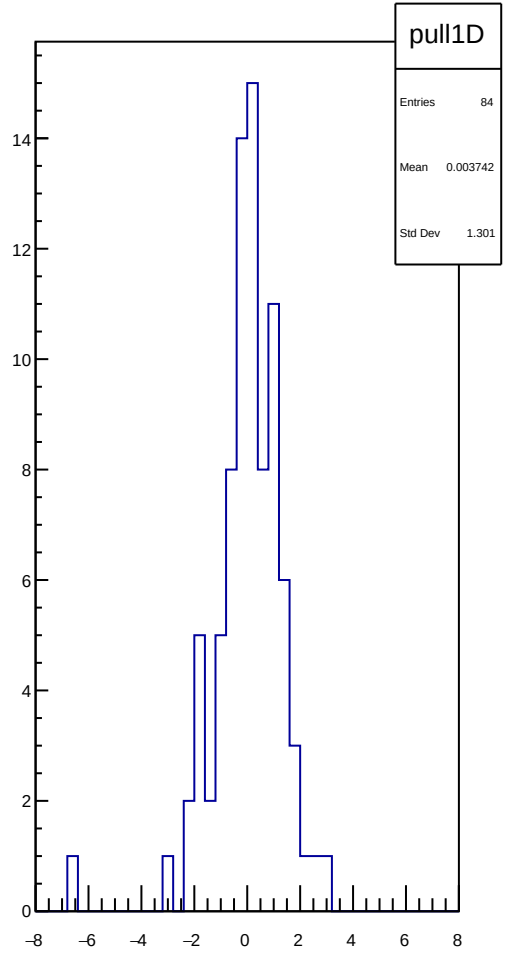

pull1D
Entries 84
Mean 0.01658
Std Dev 0.8

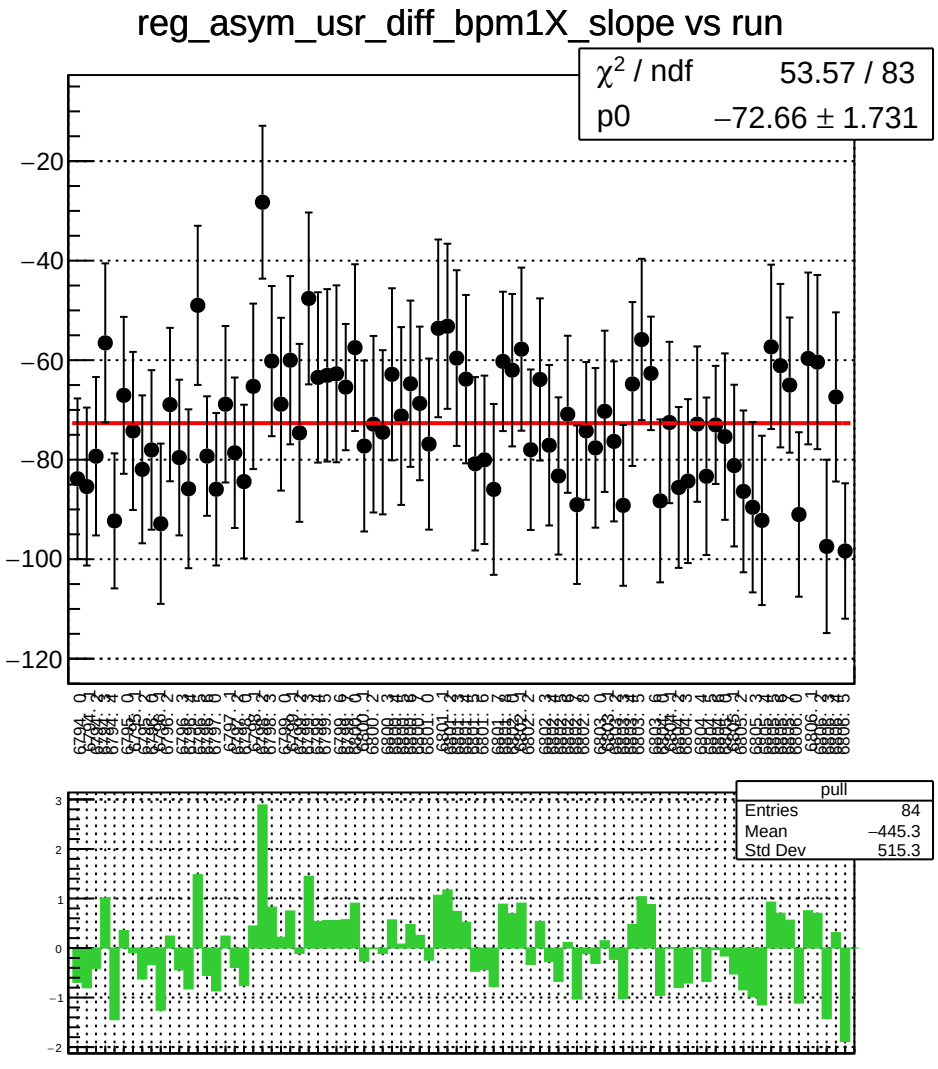

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 41.09 / 83
p0 14.23 ± 1.653
pull
Entries 84
Mean 271.5
Std Dev 239.8

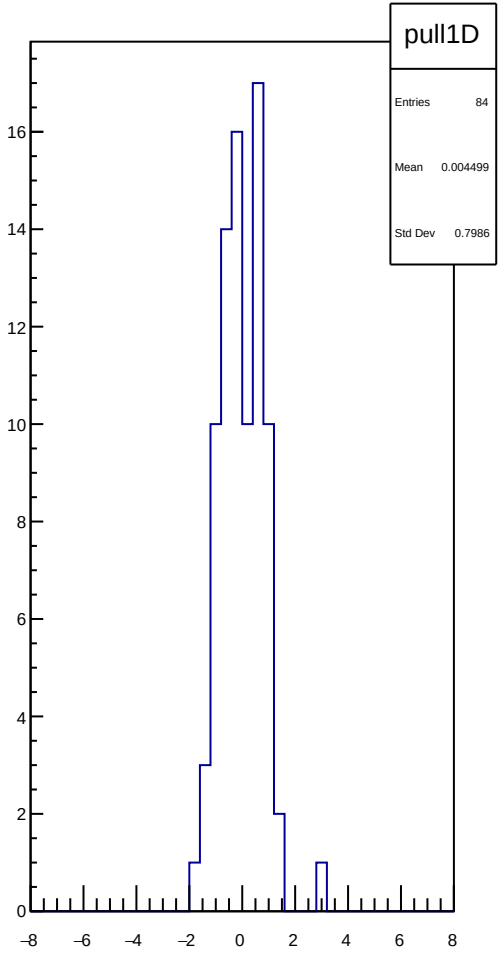

pull1D
Entries 84
Mean −0.006623
Std Dev 0.6993

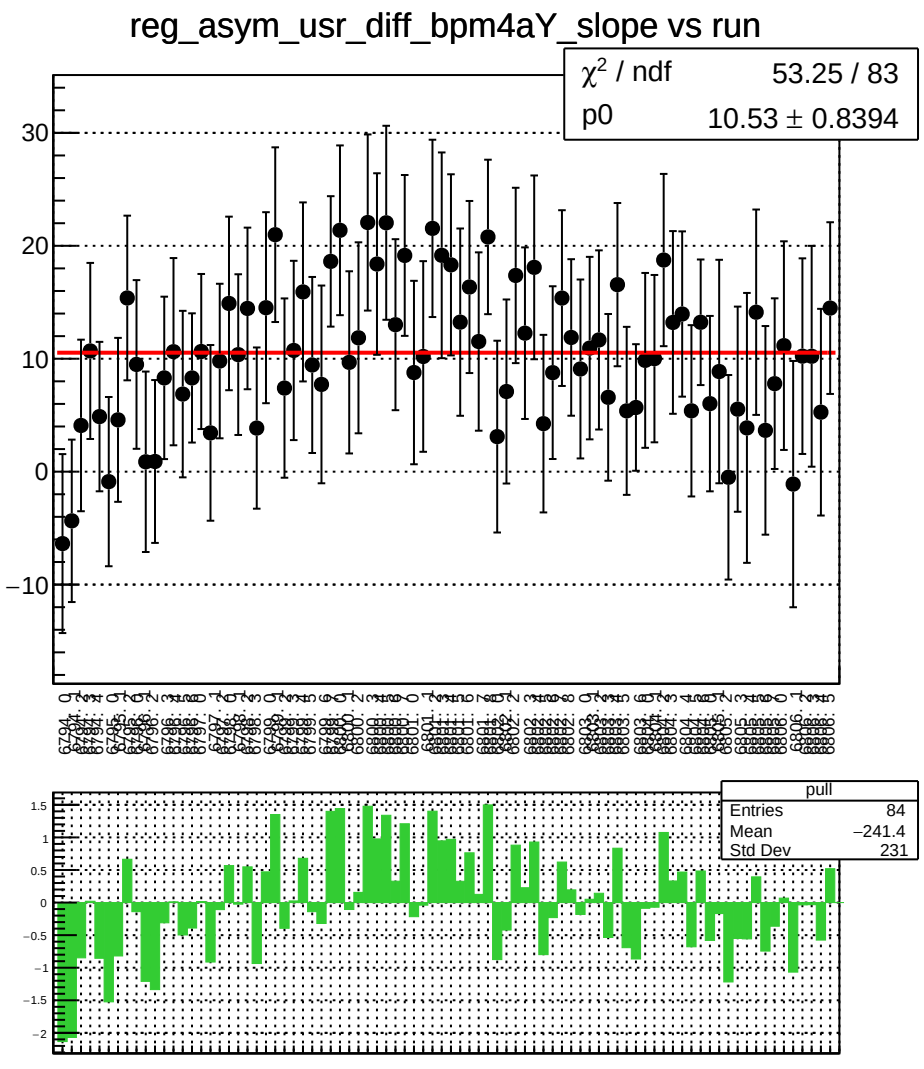

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 56.38 / 83
p0 7.87 ± 1.197
pull
Entries 84
Mean 177.5
Std Dev 160.4
pull1D
Entries 84
Mean −0.02847
Std Dev 0.8188

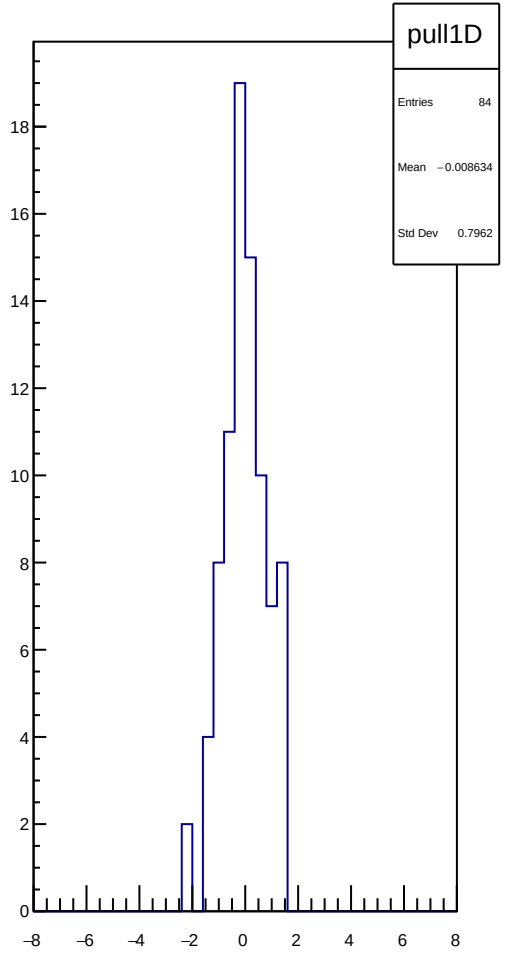

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 142.1 / 83
p0 −39.49 ± 0.07086
pull
Entries 84
Mean 1702
Std Dev 1643

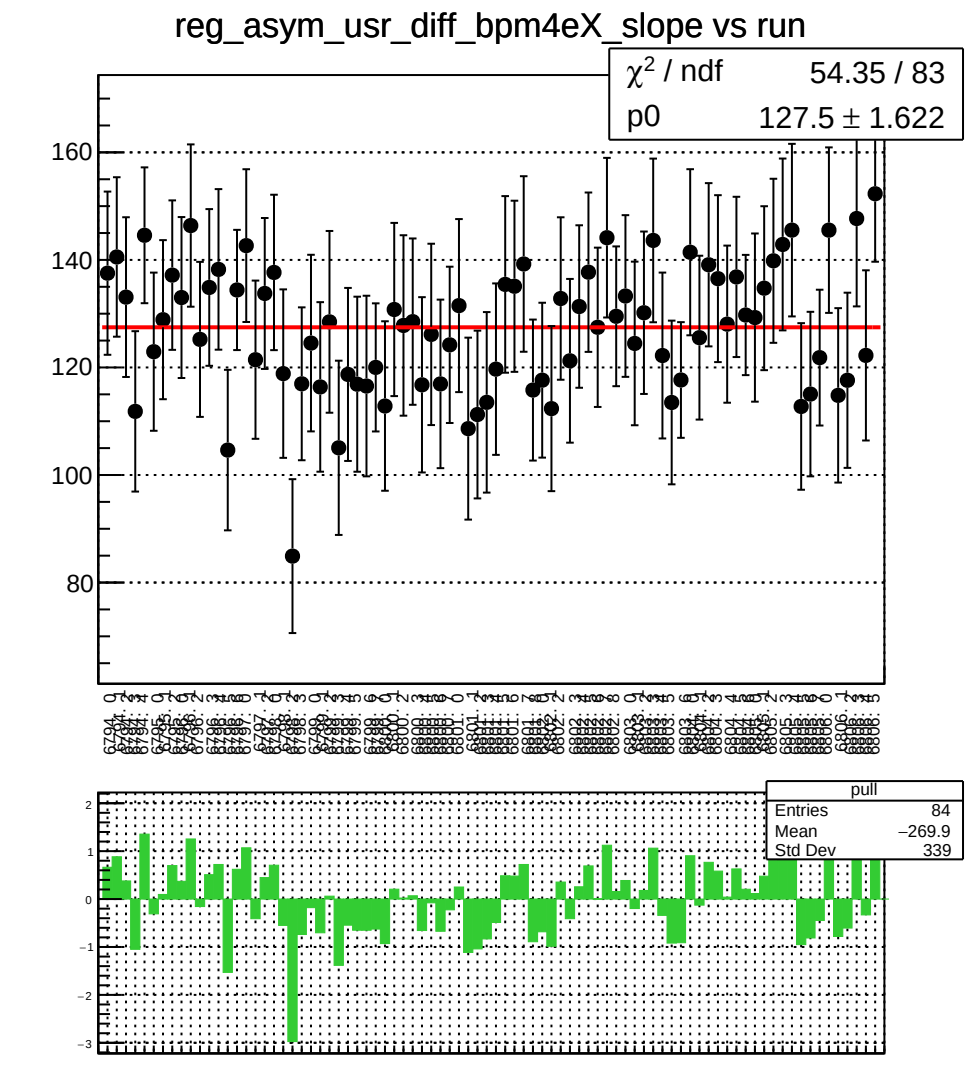

pull1D
Entries 84
Mean 0.003742
Std Dev 1.301

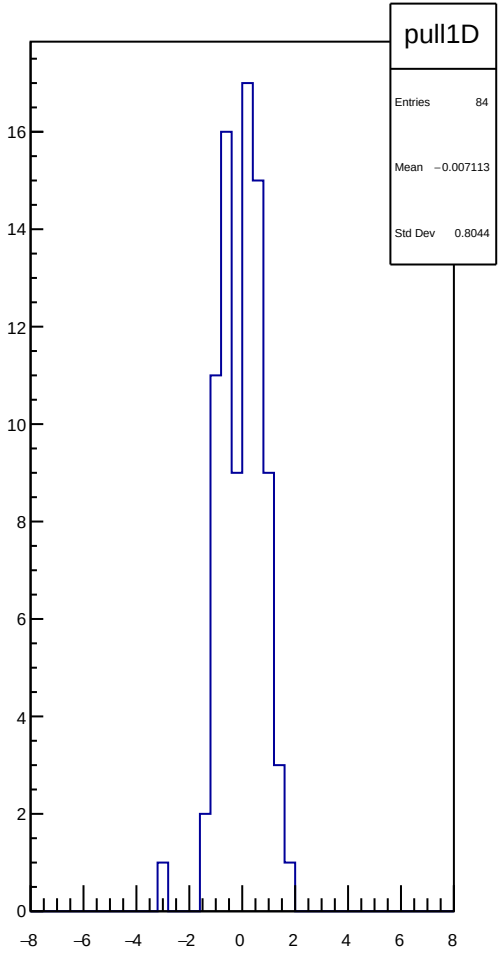

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 53.57 / 83
p0 −72.66 ± 1.731
pull
Entries 84
Mean −445.3
Std Dev 515.3

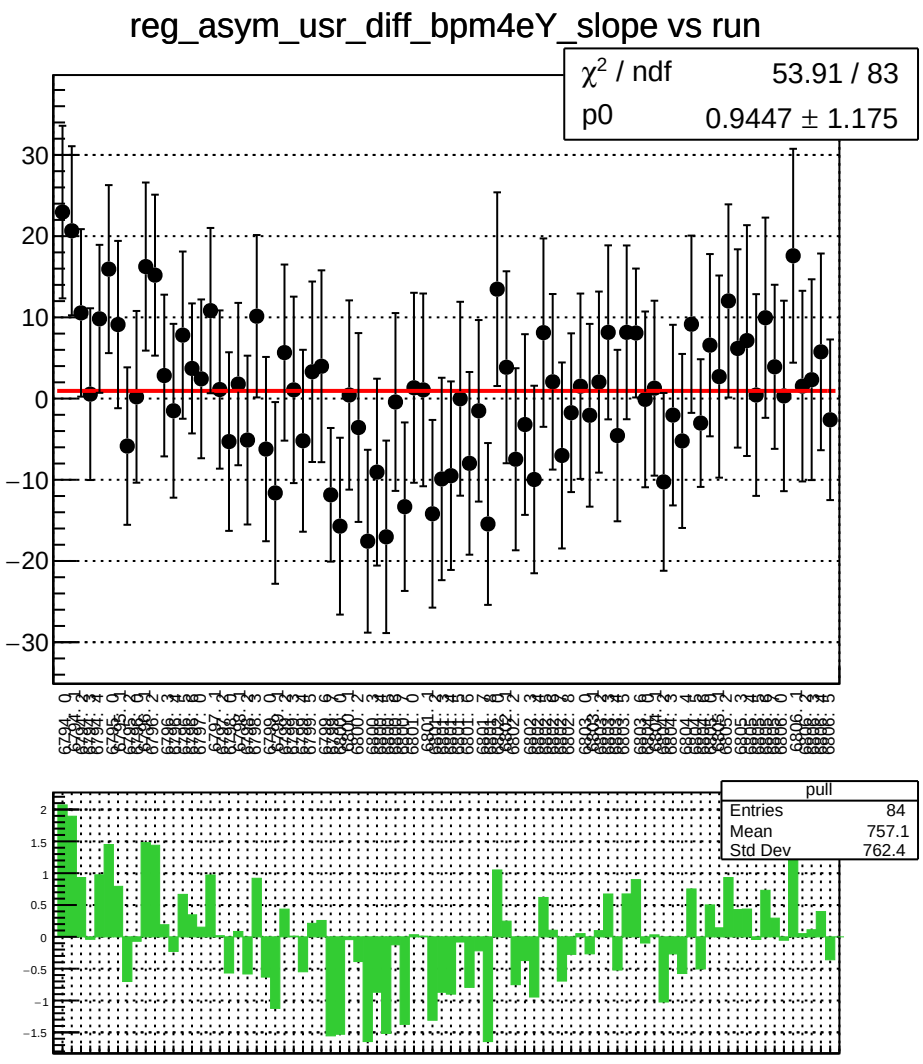

pull1D
Entries 84
Mean 0.004499
Std Dev 0.7986

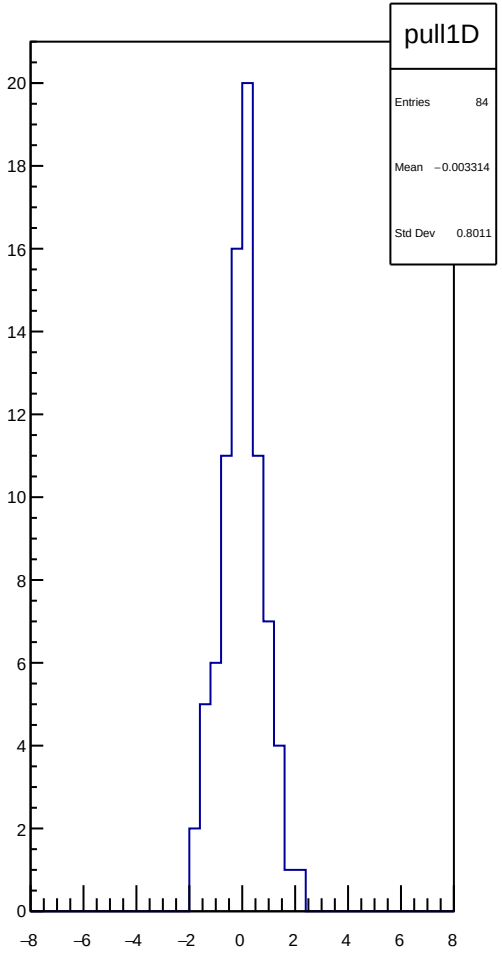

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 53.25 / 83
p0 10.53 ± 0.8394
30
20
10
0
−10
pull
Entries 84
Mean −241.4
Std Dev 231
1.5
1
0.5
0
−0.5
−1
−1.5
−2

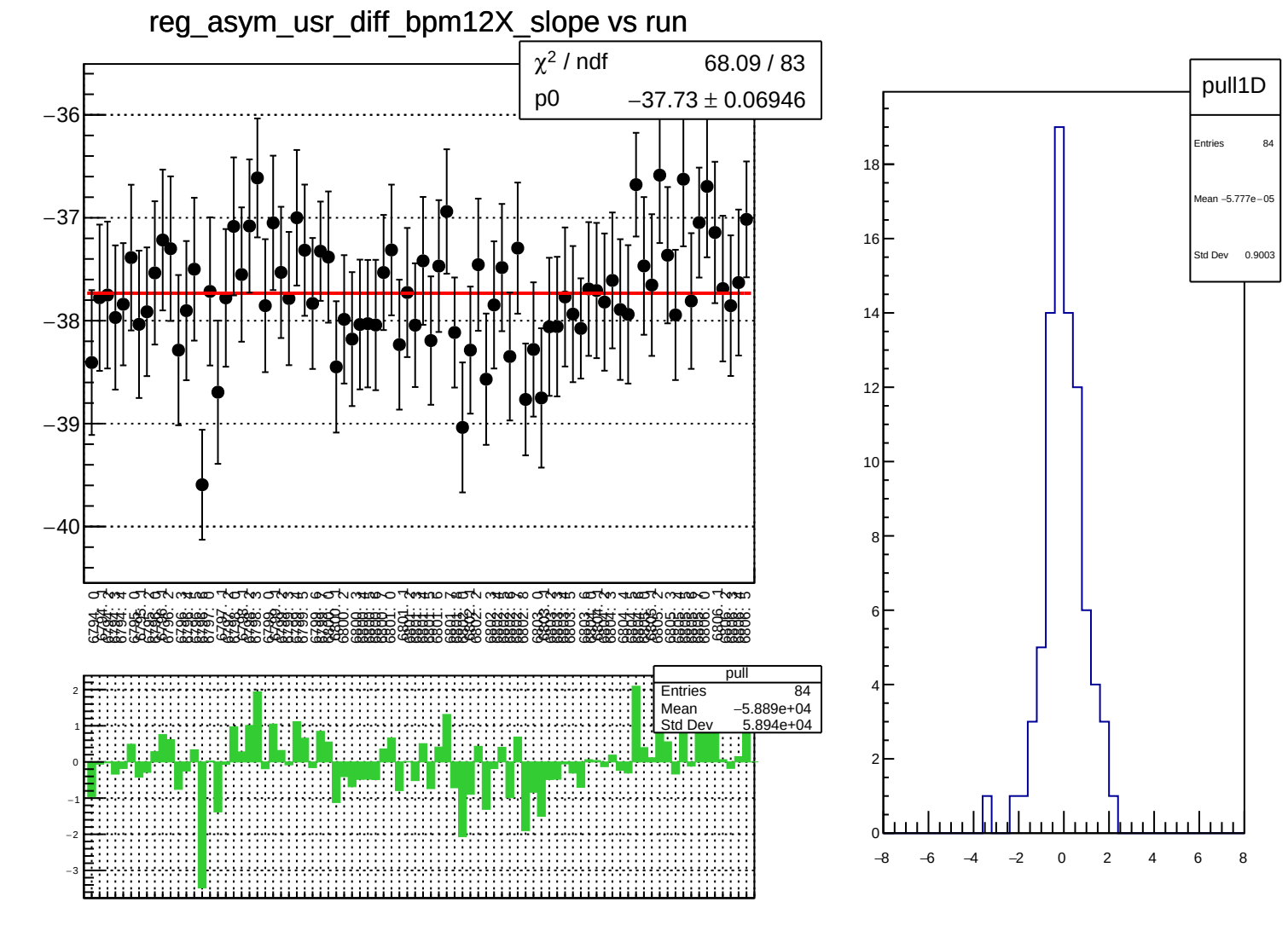

pull1D
Entries 84
Mean −0.008634
Std Dev 0.7962
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

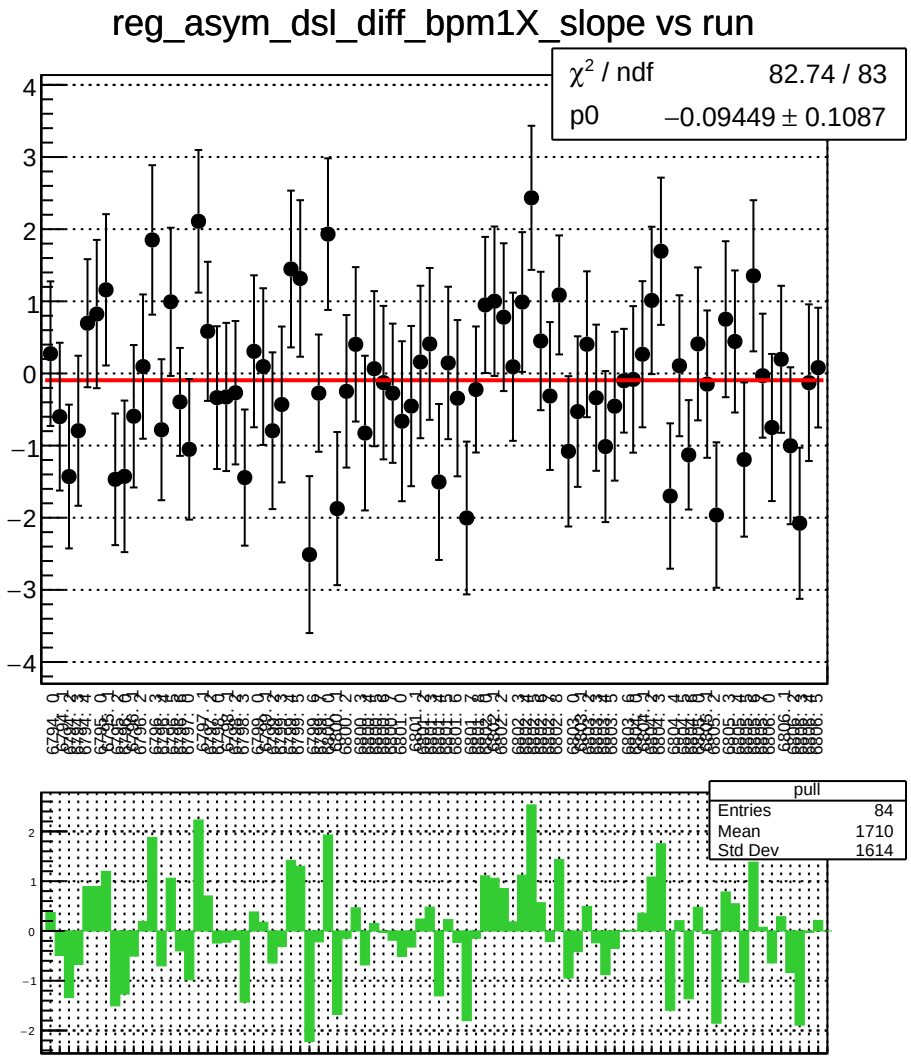

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 54.35 / 83
p0 127.5 ± 1.622
160
140
120
100
80
pull
Entries 84
Mean −269.9
Std Dev 339
2
1
0
−1
−2
−3

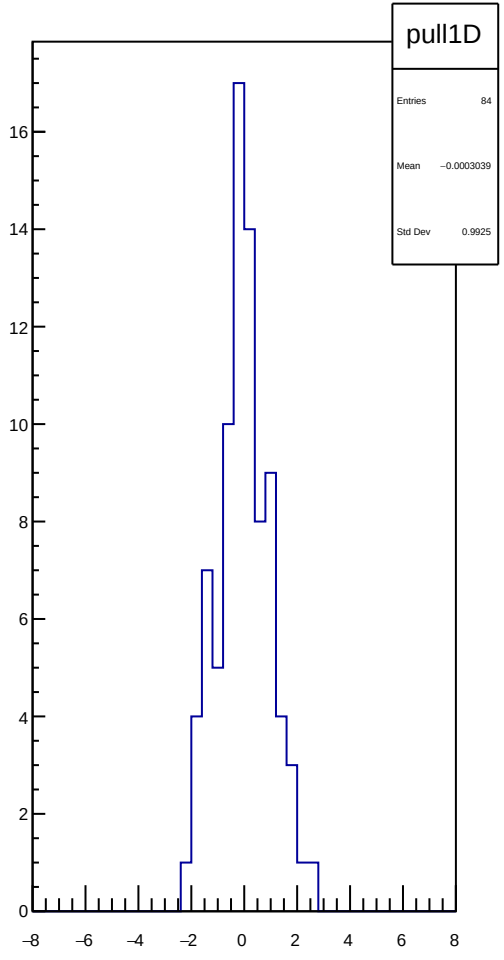

pull1D
Entries 84
Mean −0.007113
Std Dev 0.8044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

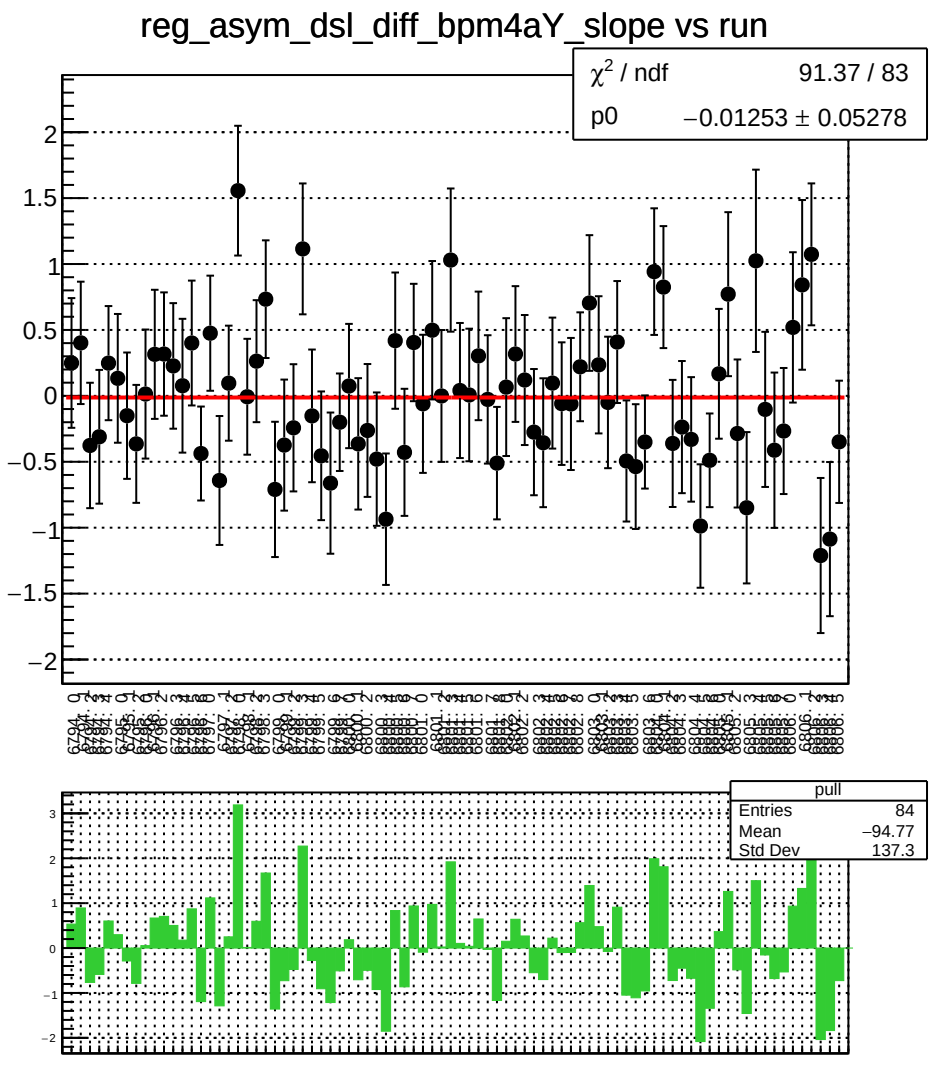

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 53.91 / 83
p0 0.9447 ± 1.175
pull
Entries 84
Mean 757.1
Std Dev 762.4

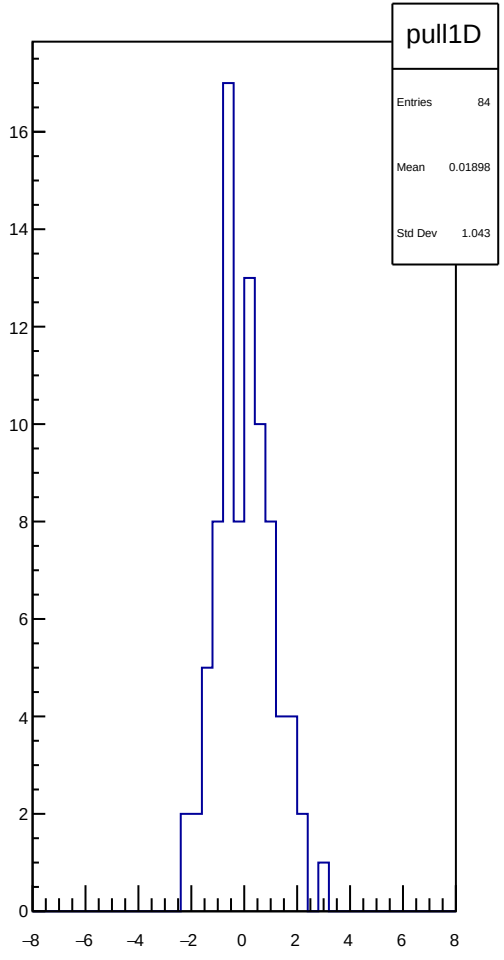

pull1D
Entries 84
Mean −0.003314
Std Dev 0.8011

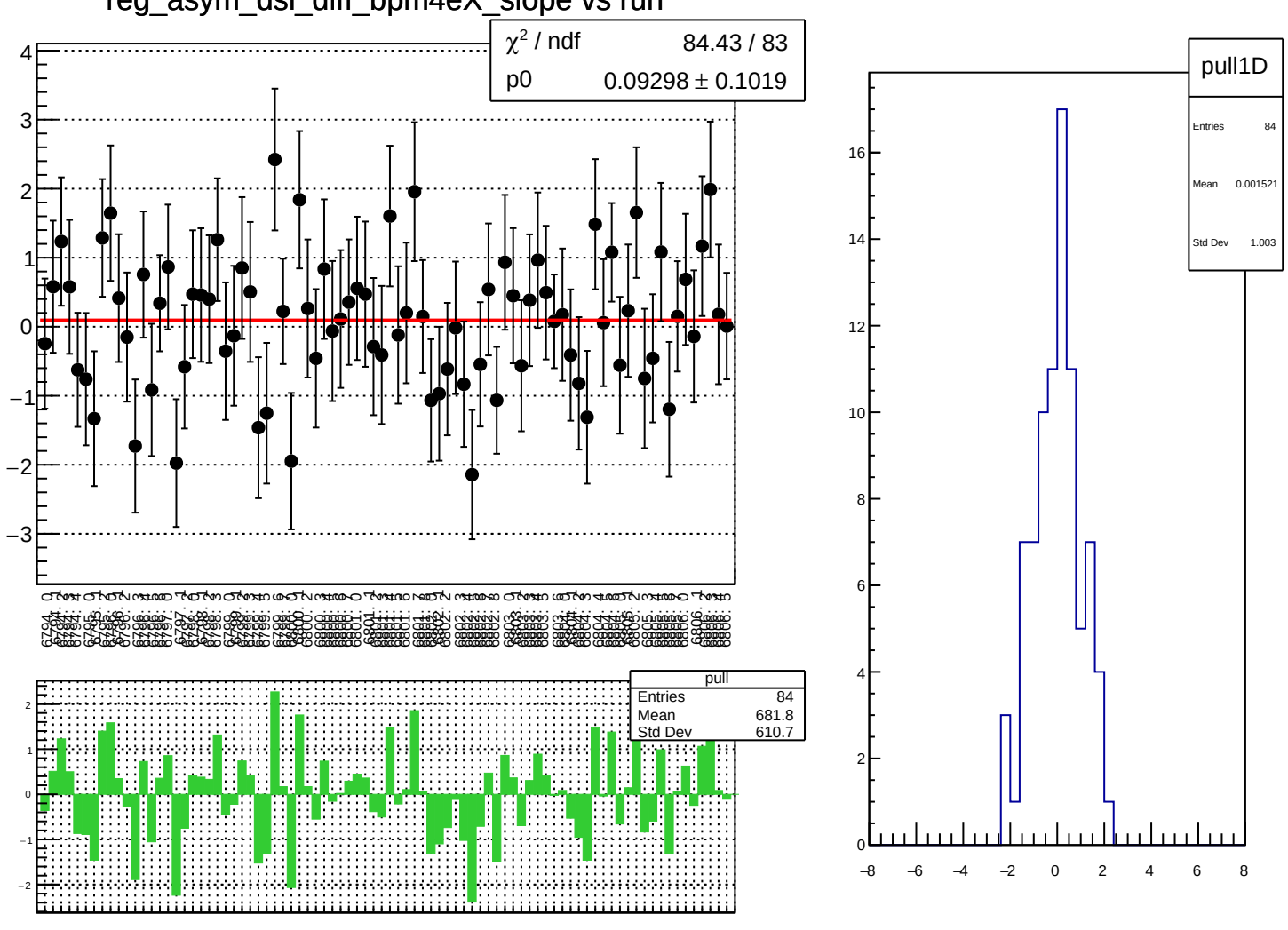

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 68.09 / 83
p0 −37.73 ± 0.06946
−36
−37
−38
−39
−40
pull
Entries 84
Mean −5.889e+04
Std Dev 5.894e+04
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −5.777e−05
Std Dev 0.9003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

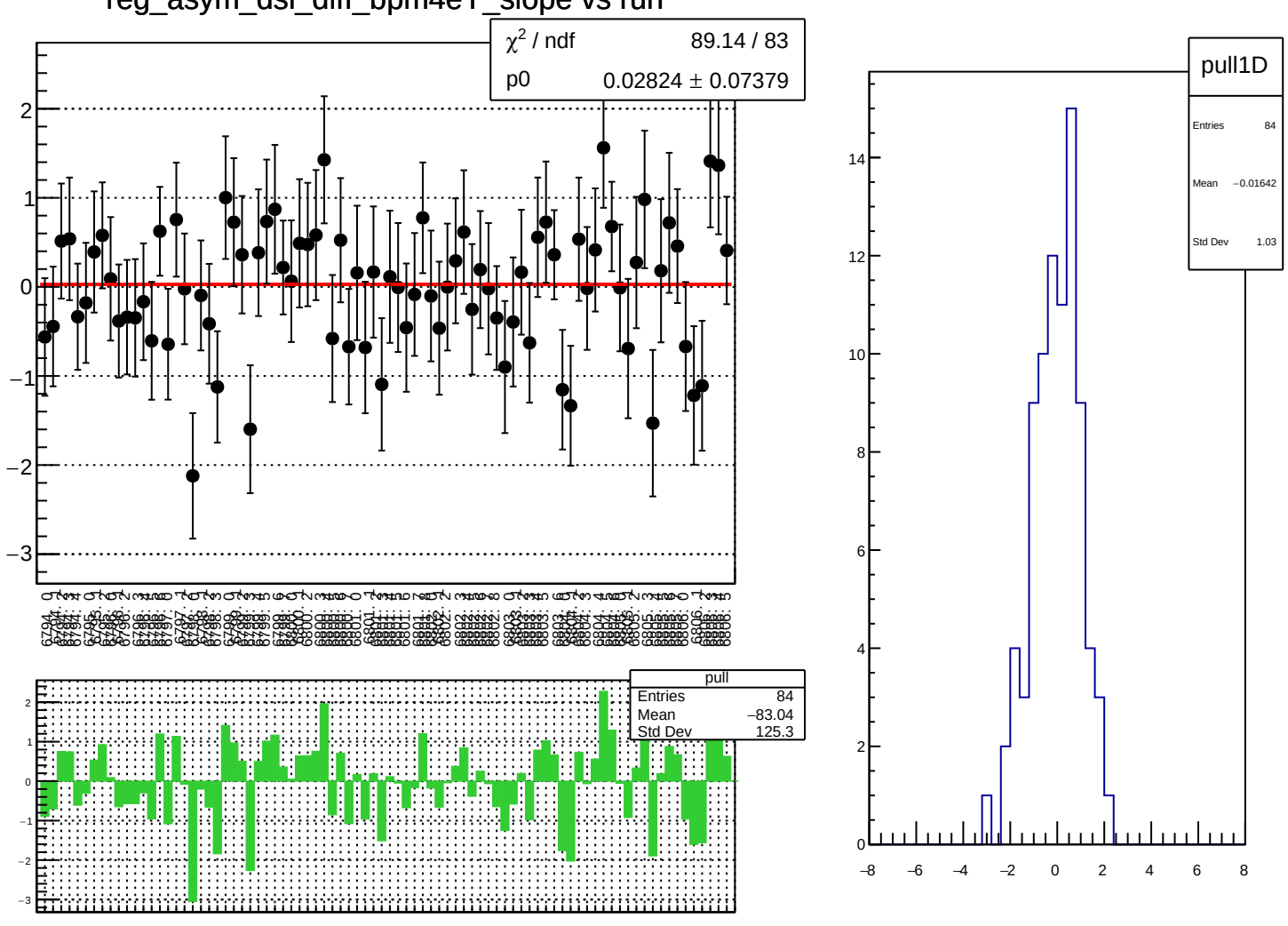

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 82.74 / 83
p0 −0.09449 ± 0.1087
pull
Entries 84
Mean 1710
Std Dev 1614

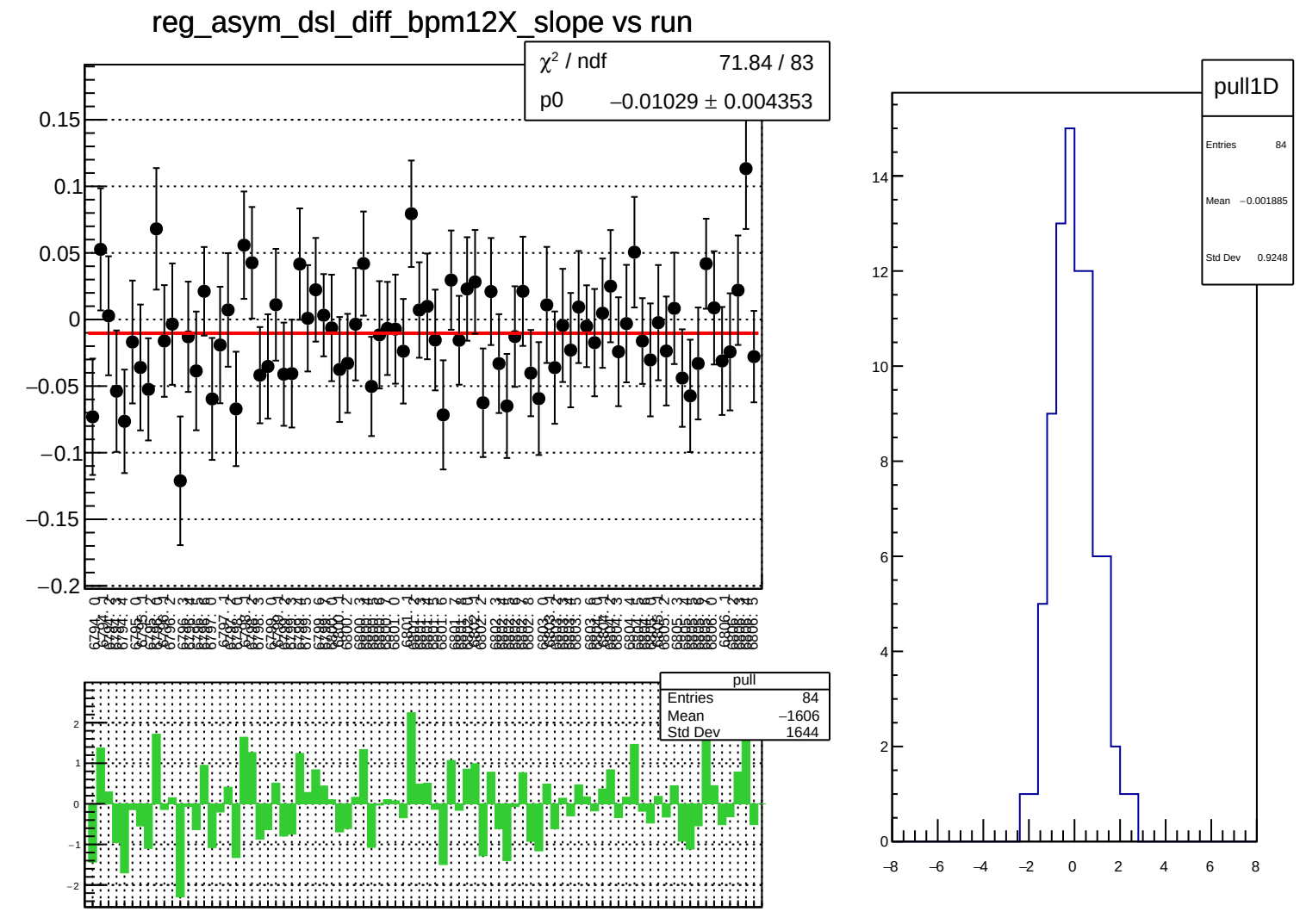

pull1D
Entries 84
Mean −0.0003039
Std Dev 0.9925

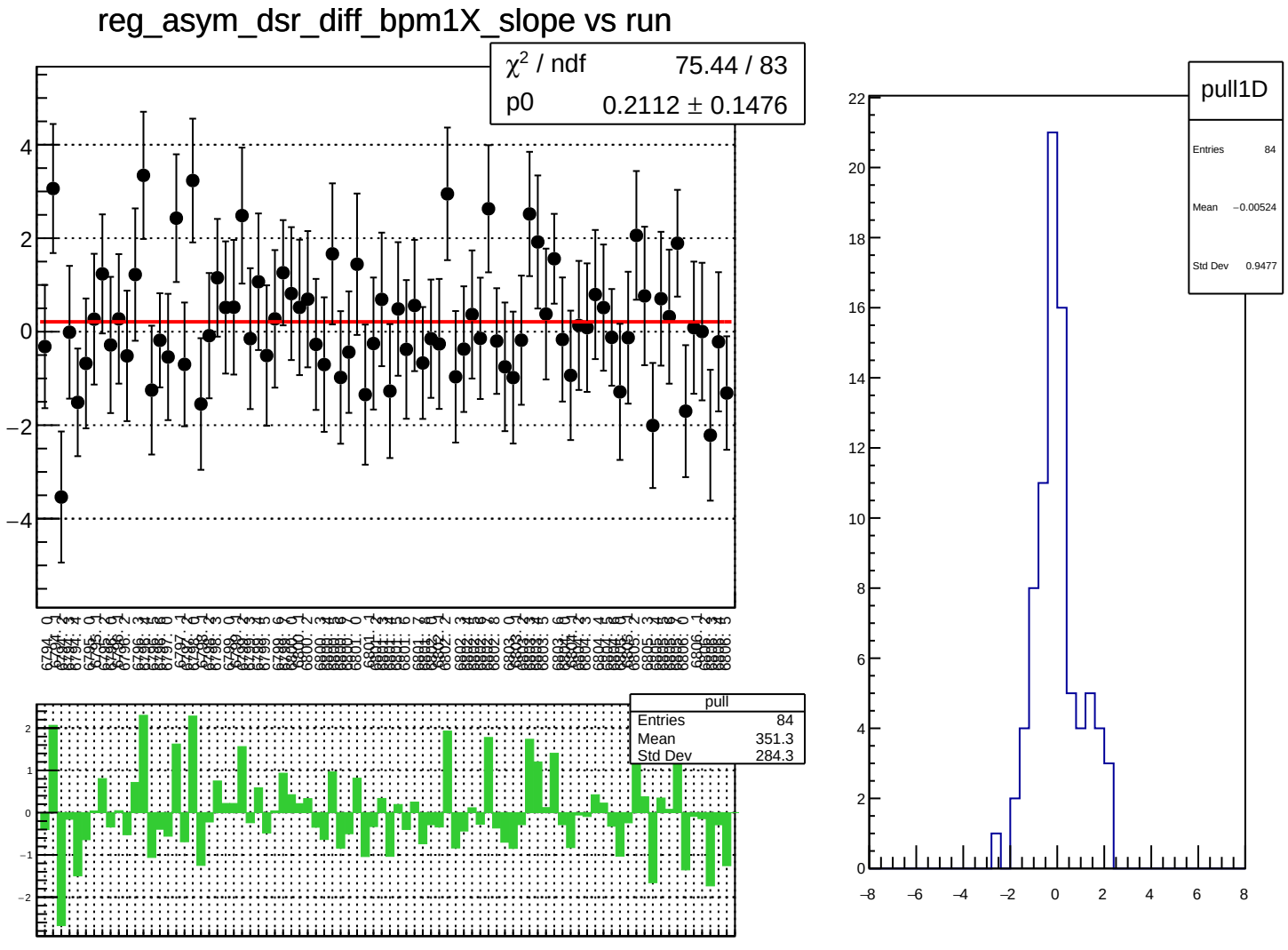

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 91.37 / 83
p0 −0.01253 ± 0.05278
pull
Entries 84
Mean −94.77
Std Dev 137.3

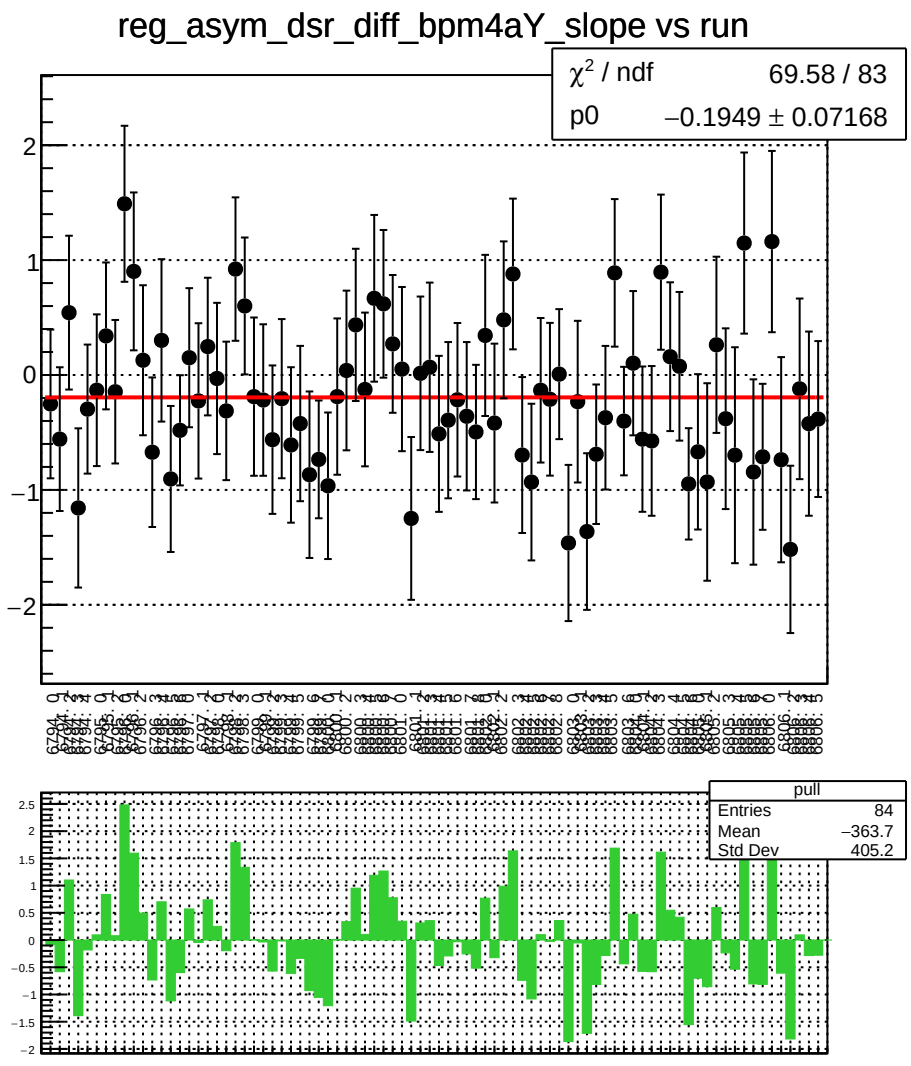

pull1D
Entries 84
Mean 0.01898
Std Dev 1.043

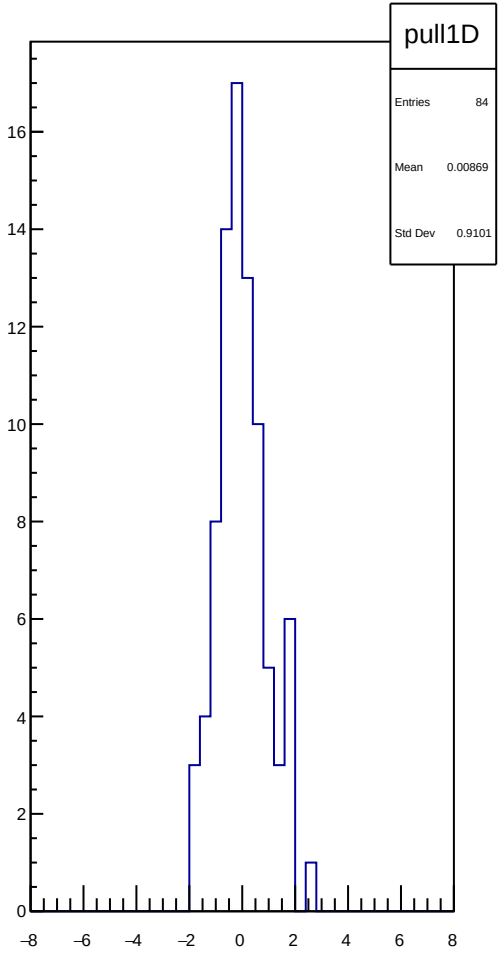

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 84.43 / 83
p0 0.09298 ± 0.1019
pull
Entries 84
Mean 681.8
Std Dev 610.7
pull1D
Entries 84
Mean 0.001521
Std Dev 1.003

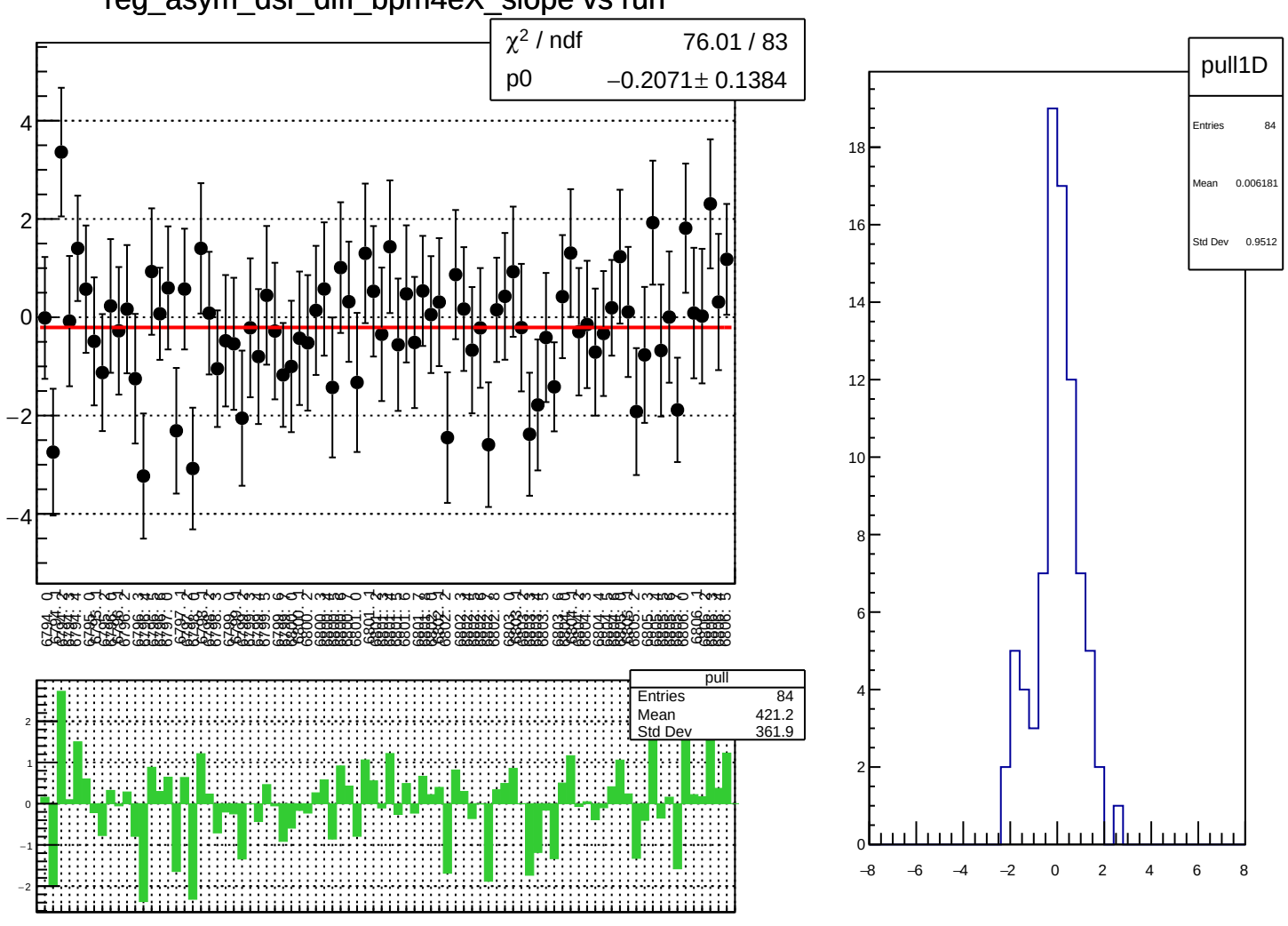

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 89.14 / 83
p0 0.02824 ± 0.07379
pull
Entries 84
Mean −83.04
Std Dev 125.3
pull1D
Entries 84
Mean −0.01642
Std Dev 1.03

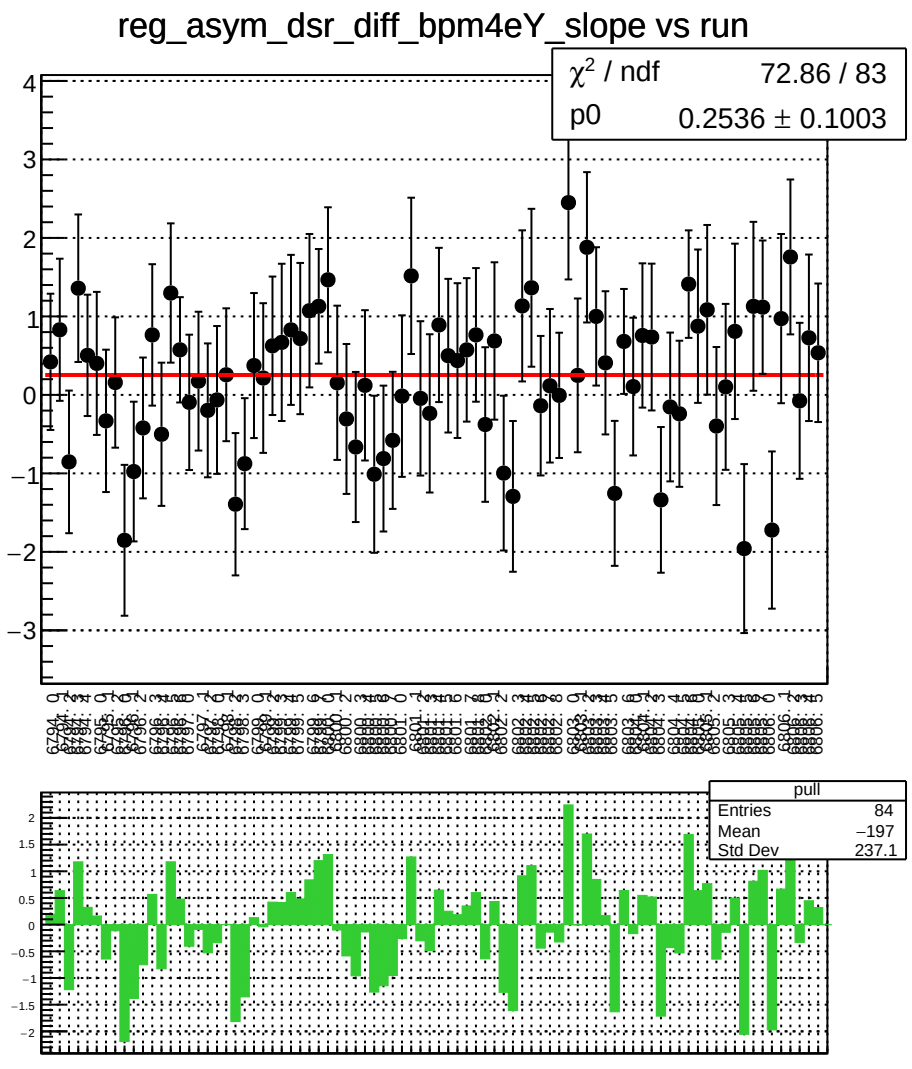

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 71.84 / 83
p0 −0.01029 ± 0.004353
pull
Entries 84
Mean −1606
Std Dev 1644
pull1D
Entries 84
Mean −0.001885
Std Dev 0.9248

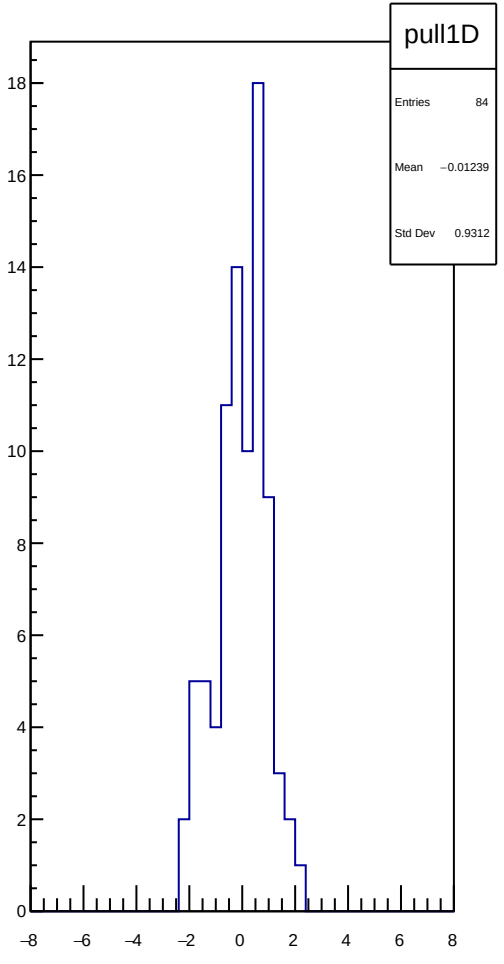

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 75.44 / 83
p0 0.2112 ± 0.1476
pull
Entries 84
Mean 351.3
Std Dev 284.3
pull1D
Entries 84
Mean −0.00524
Std Dev 0.9477

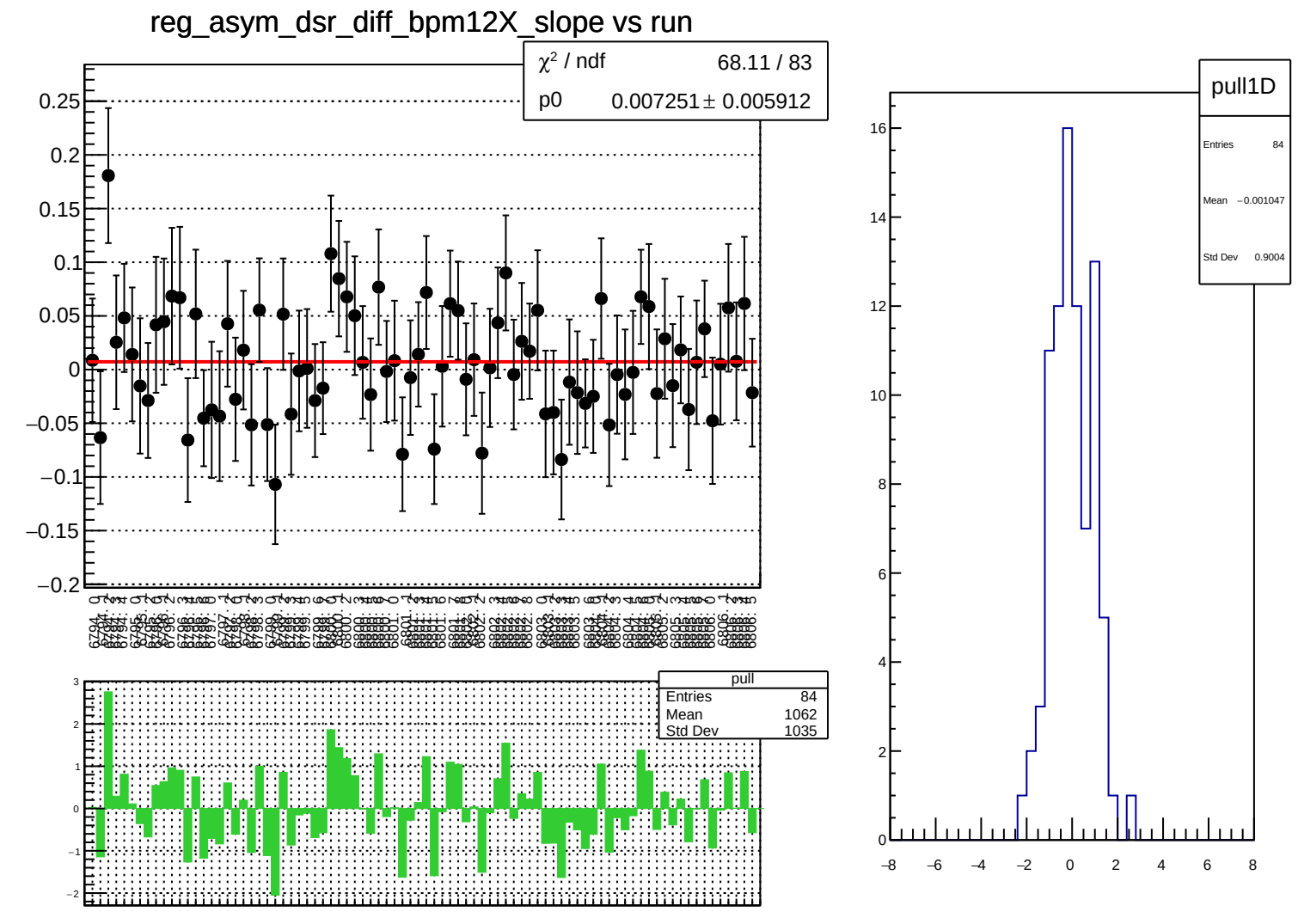

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 69.58 / 83
p0 −0.1949 ± 0.07168
pull
Entries 84
Mean −363.7
Std Dev 405.2

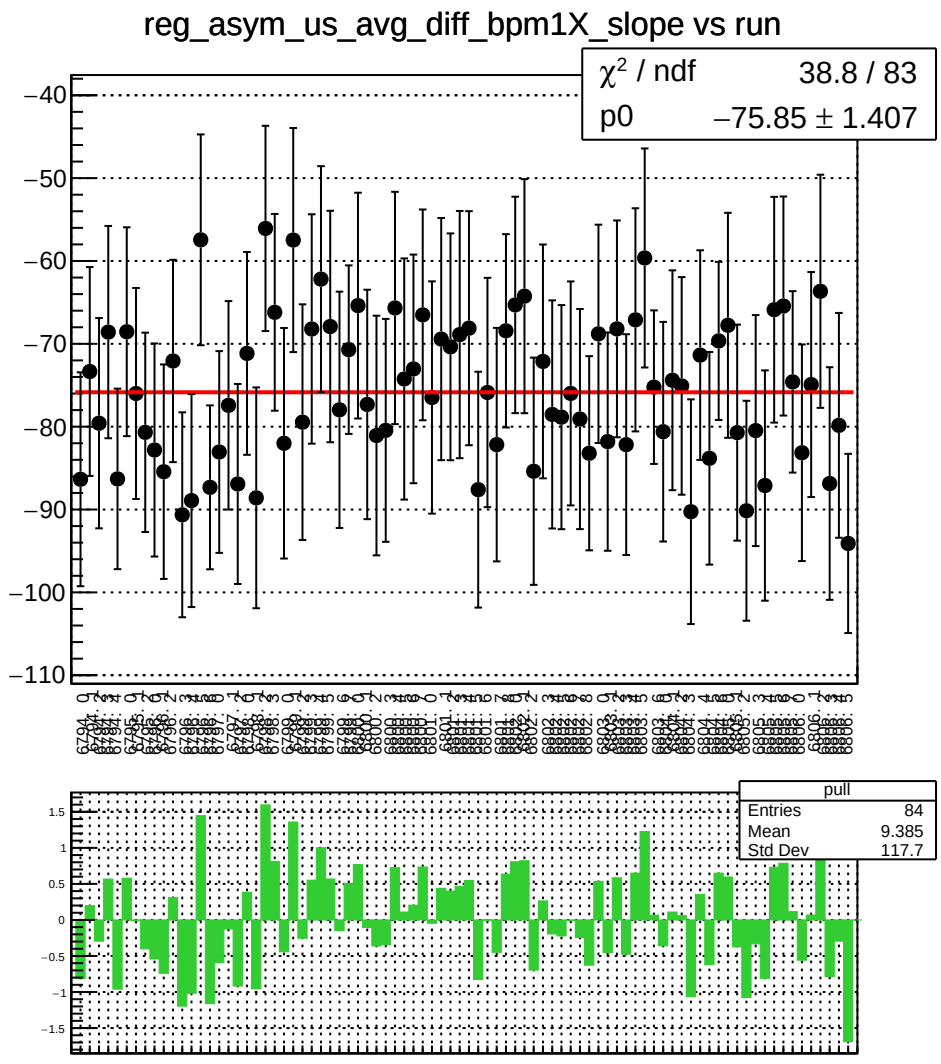

pull1D
Entries 84
Mean 0.00869
Std Dev 0.9101

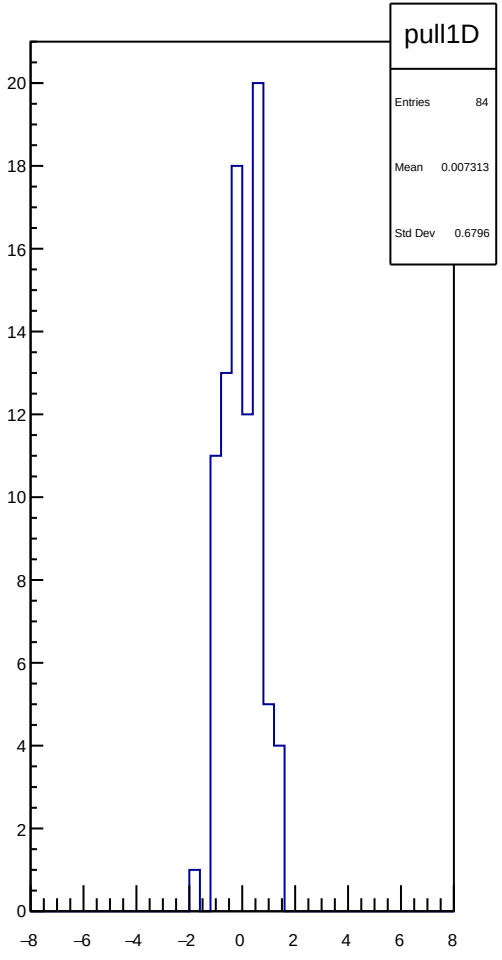

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 76.01 / 83
p0 −0.2071± 0.1384
pull
Entries 84
Mean 421.2
Std Dev 361.9
pull1D
Entries 84
Mean 0.006181
Std Dev 0.9512

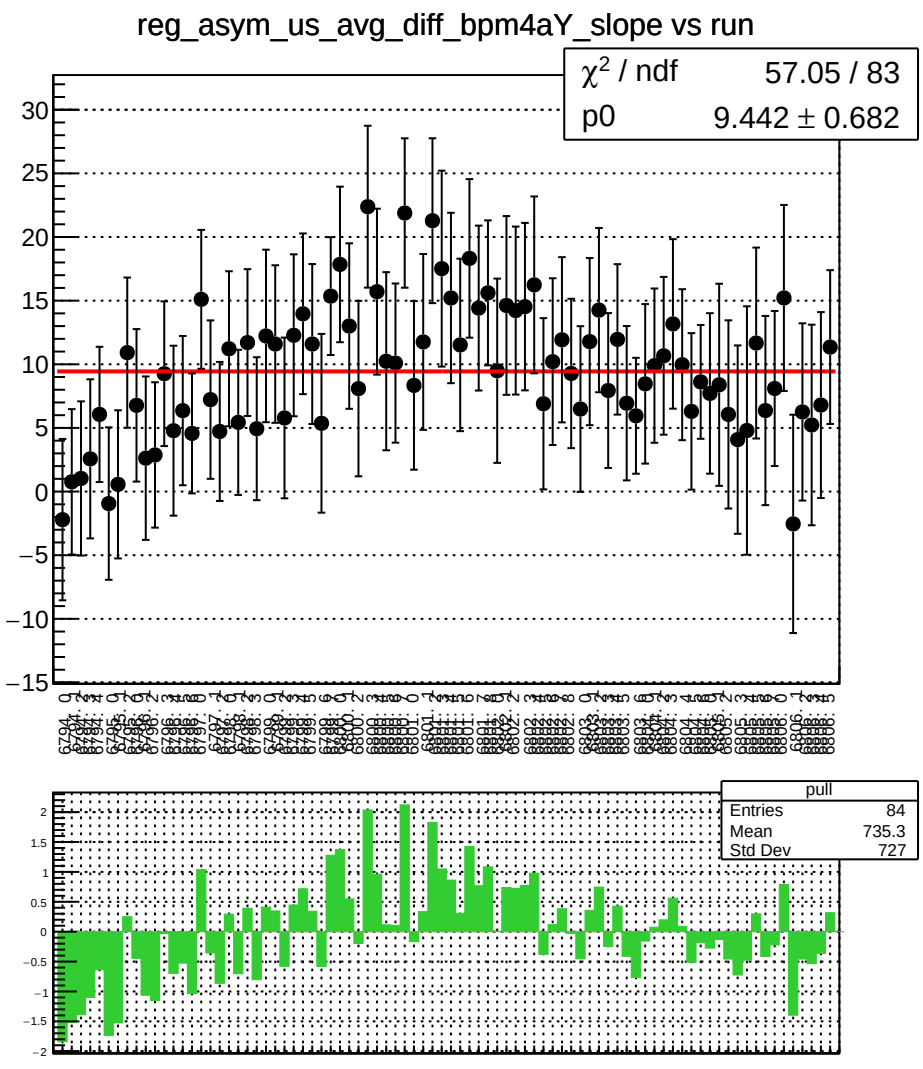

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 72.86 / 83
p0 0.2536 ± 0.1003
pull
Entries 84
Mean −197
Std Dev 237.1

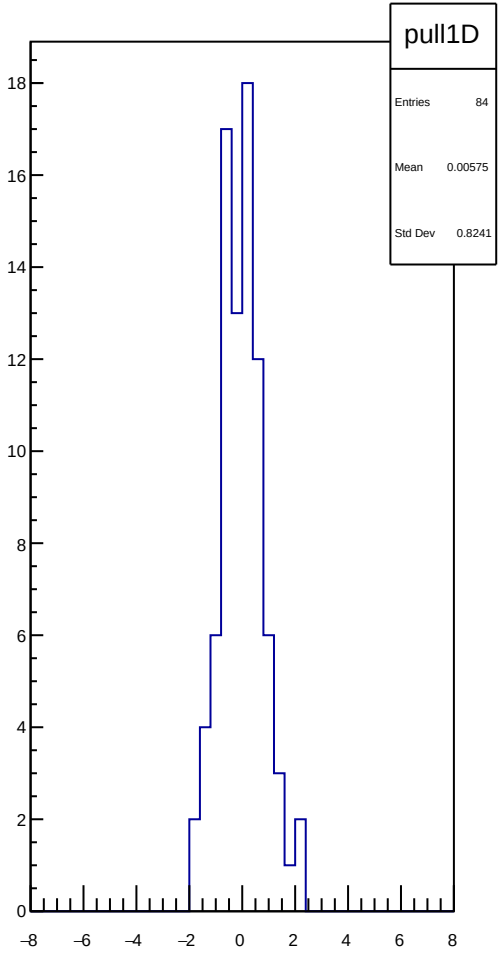

pull1D
Entries 84
Mean −0.01239
Std Dev 0.9312

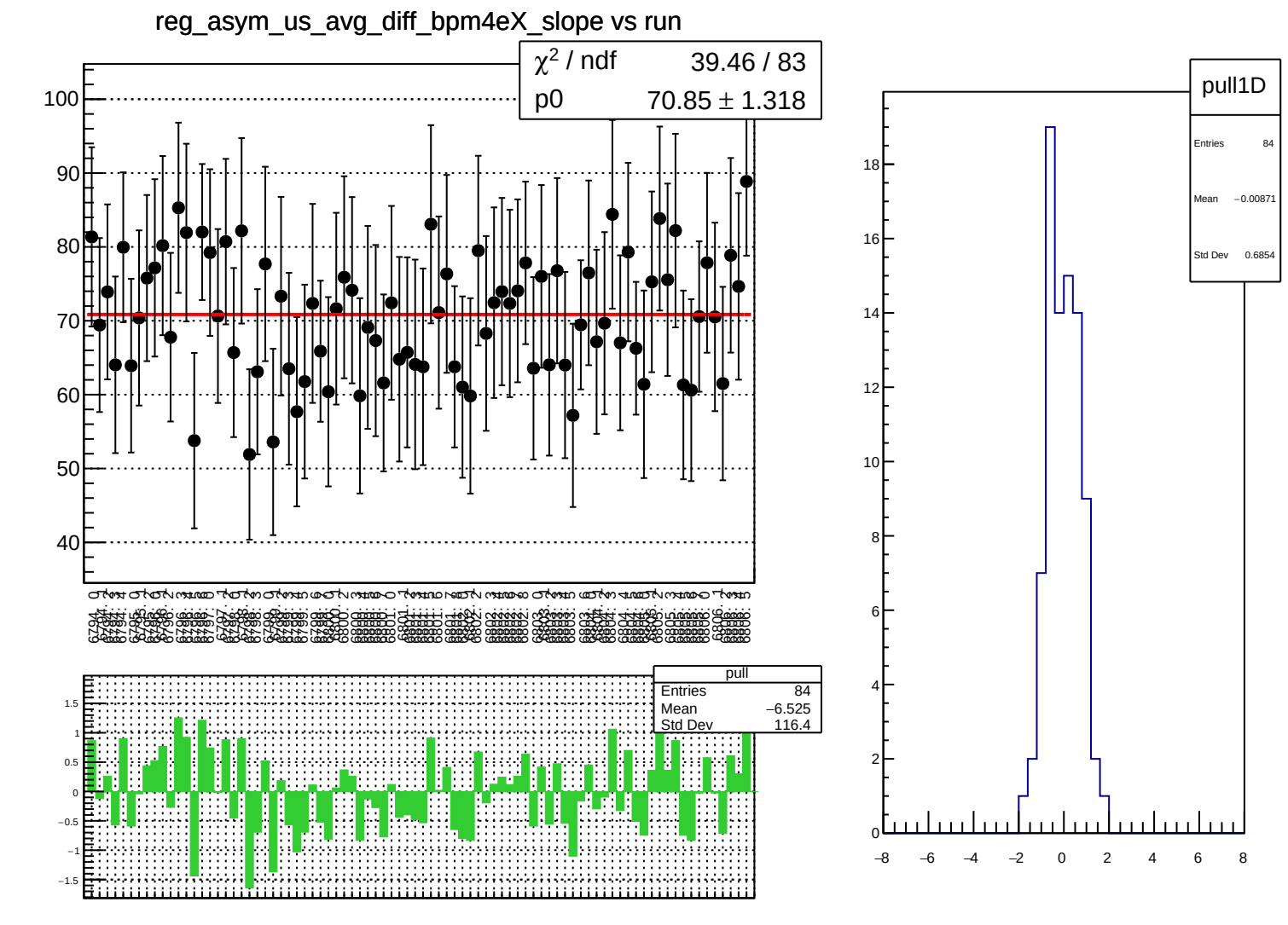

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 68.11 / 83
p0 0.007251 ± 0.005912
pull
Entries 84
Mean 1062
Std Dev 1035
pull1D
Entries 84
Mean −0.001047
Std Dev 0.9004

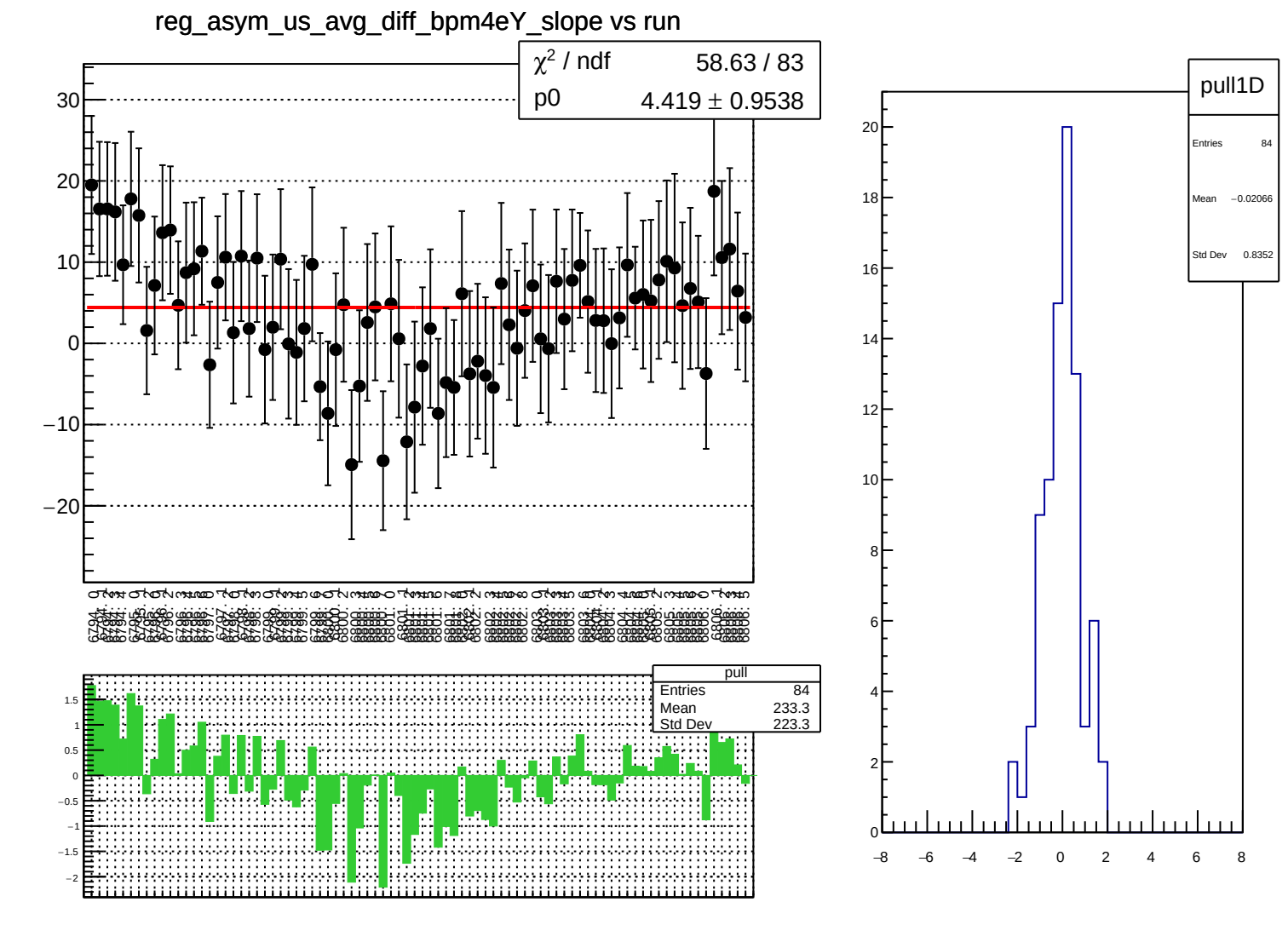

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 38.8 / 83
p0 −75.85 ± 1.407
pull
Entries 84
Mean 9.385
Std Dev 117.7

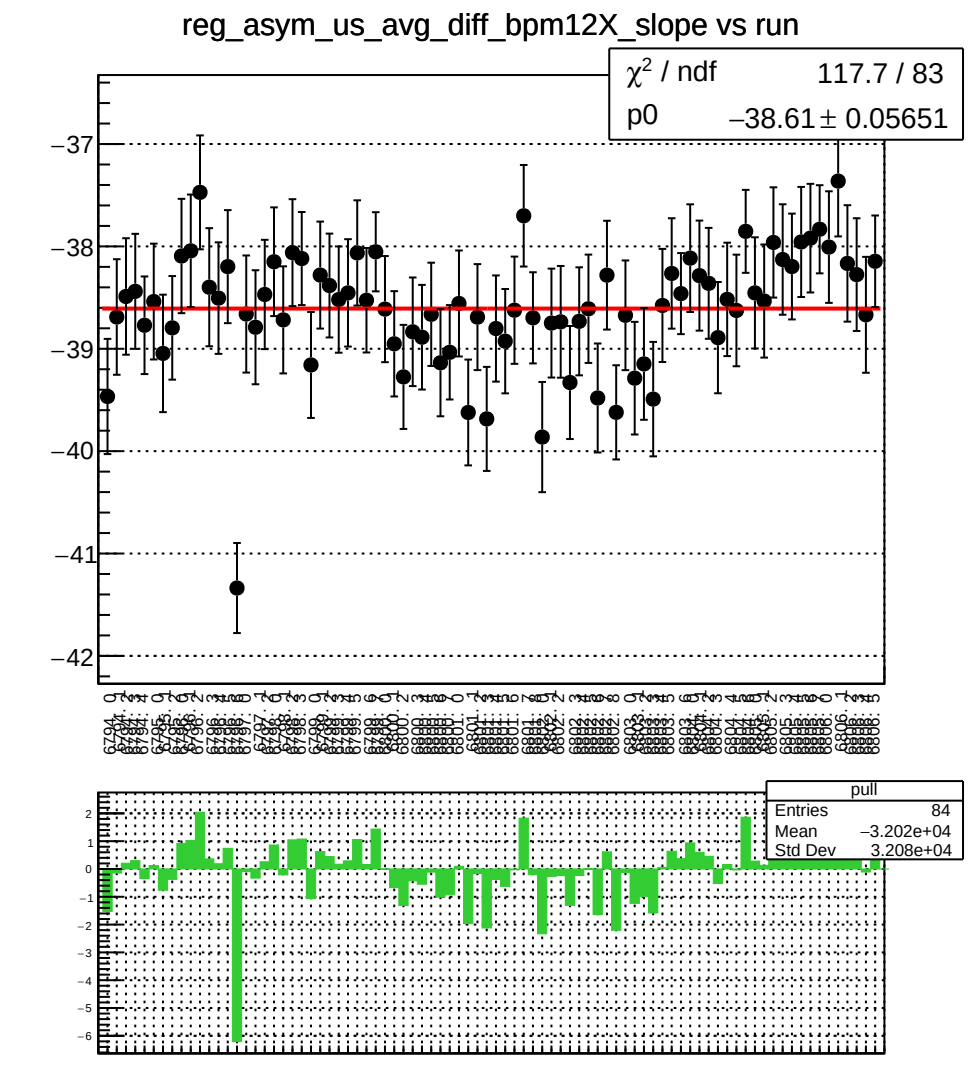

pull1D
Entries 84
Mean 0.007313
Std Dev 0.6796

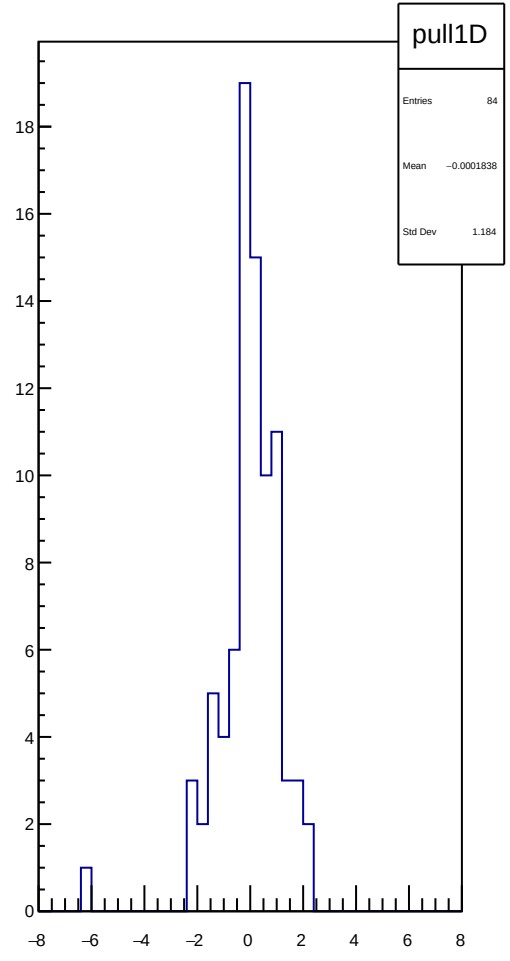

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 57.05 / 83
p0 9.442 ± 0.682
pull
Entries 84
Mean 735.3
Std Dev 727

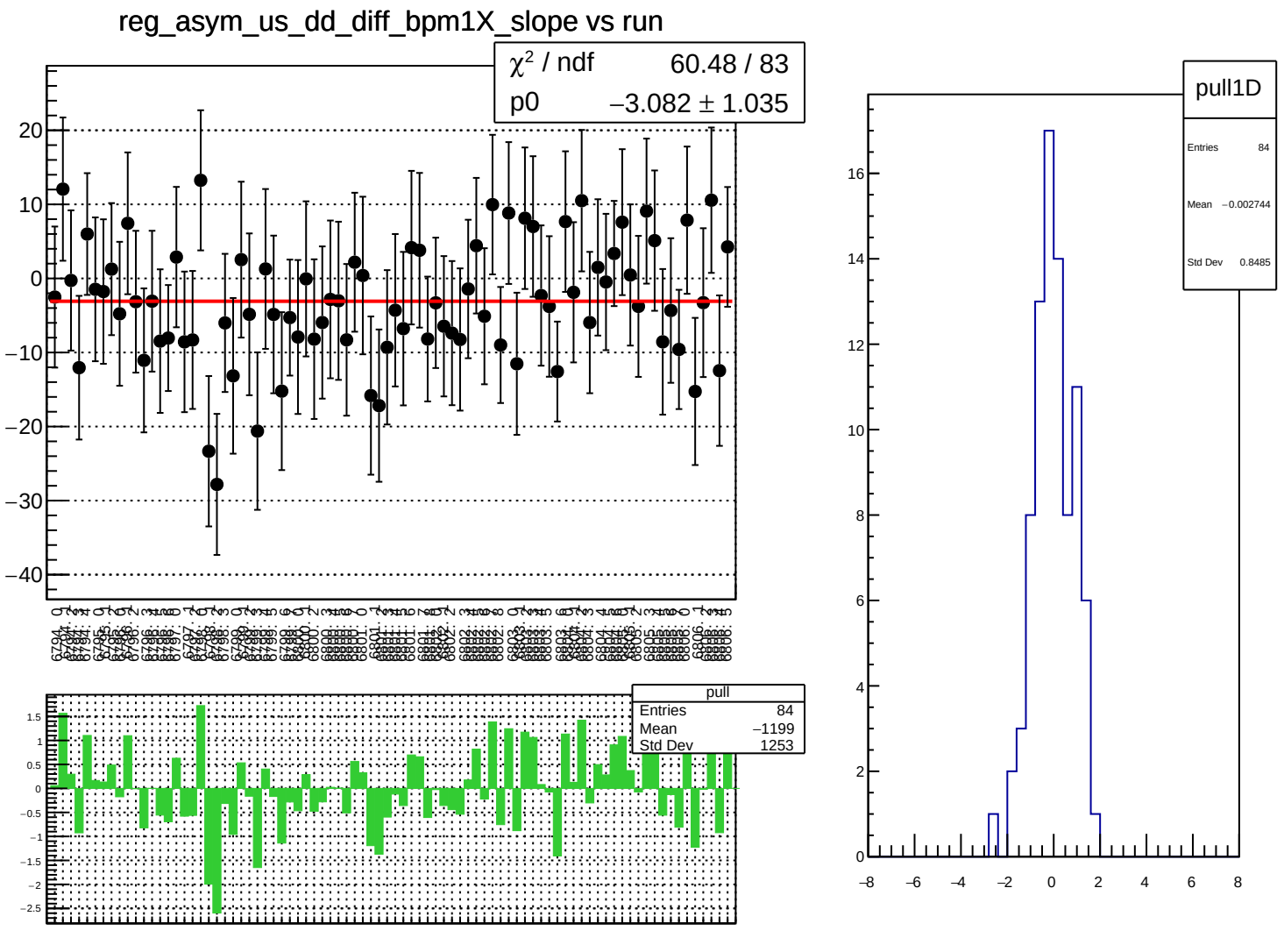

pull1D
Entries 84
Mean 0.00575
Std Dev 0.8241

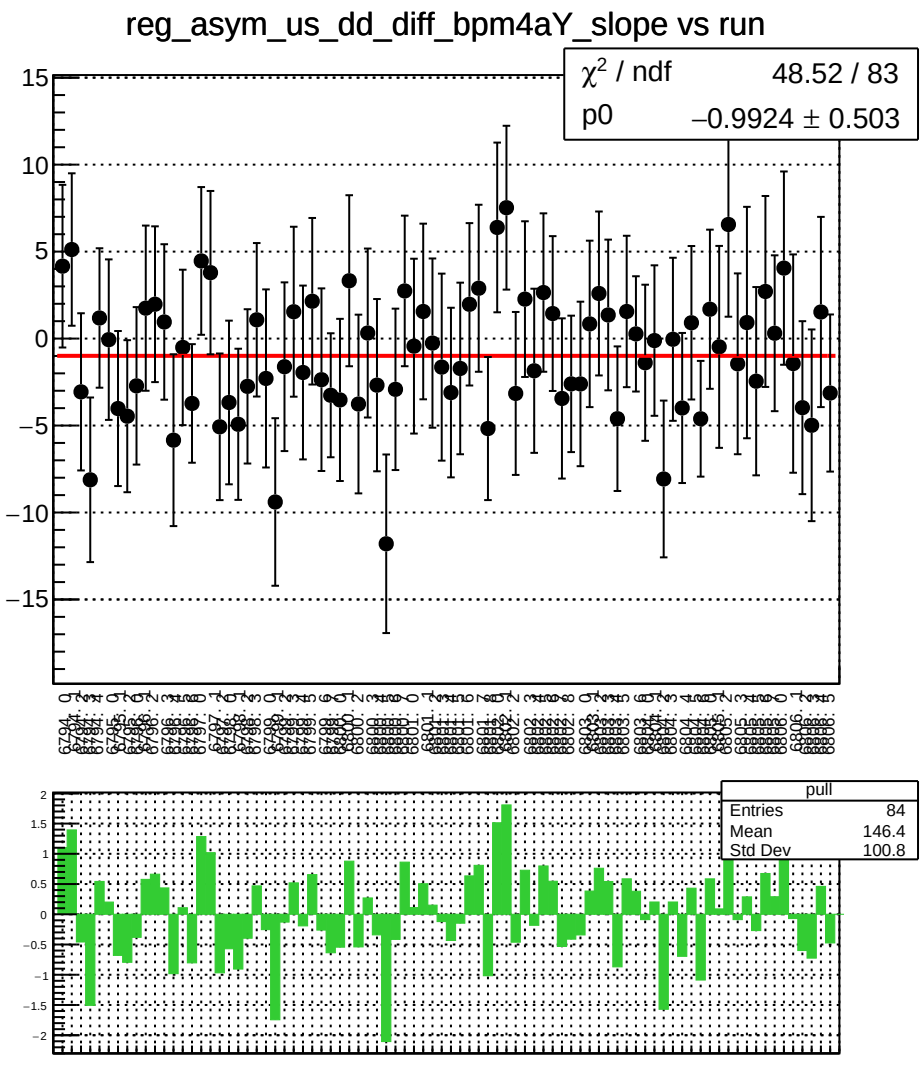

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 39.46 / 83
p0 70.85 ± 1.318
pull
Entries 84
Mean −6.525
Std Dev 116.4
pull1D
Entries 84
Mean −0.00871
Std Dev 0.6854

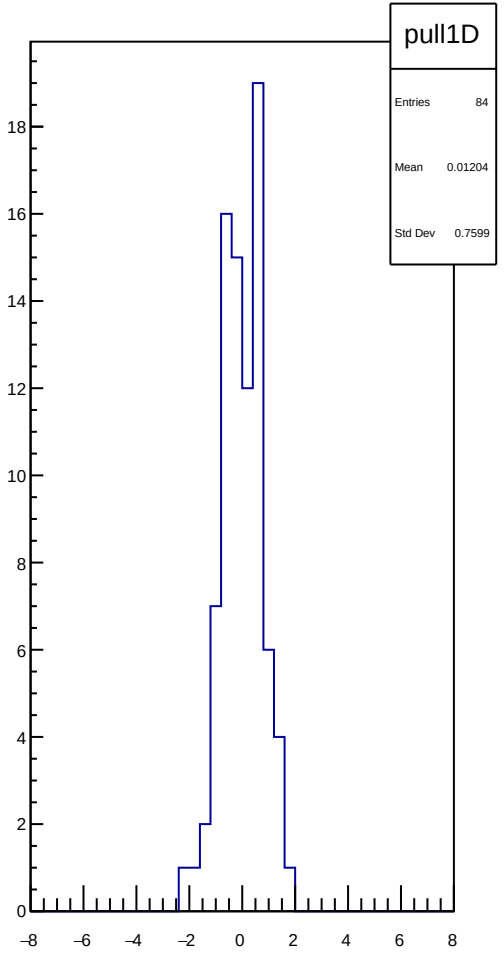

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.63 / 83
p0 4.419 ± 0.9538
pull
Entries 84
Mean 233.3
Std Dev 223.3
pull1D
Entries 84
Mean −0.02066
Std Dev 0.8352

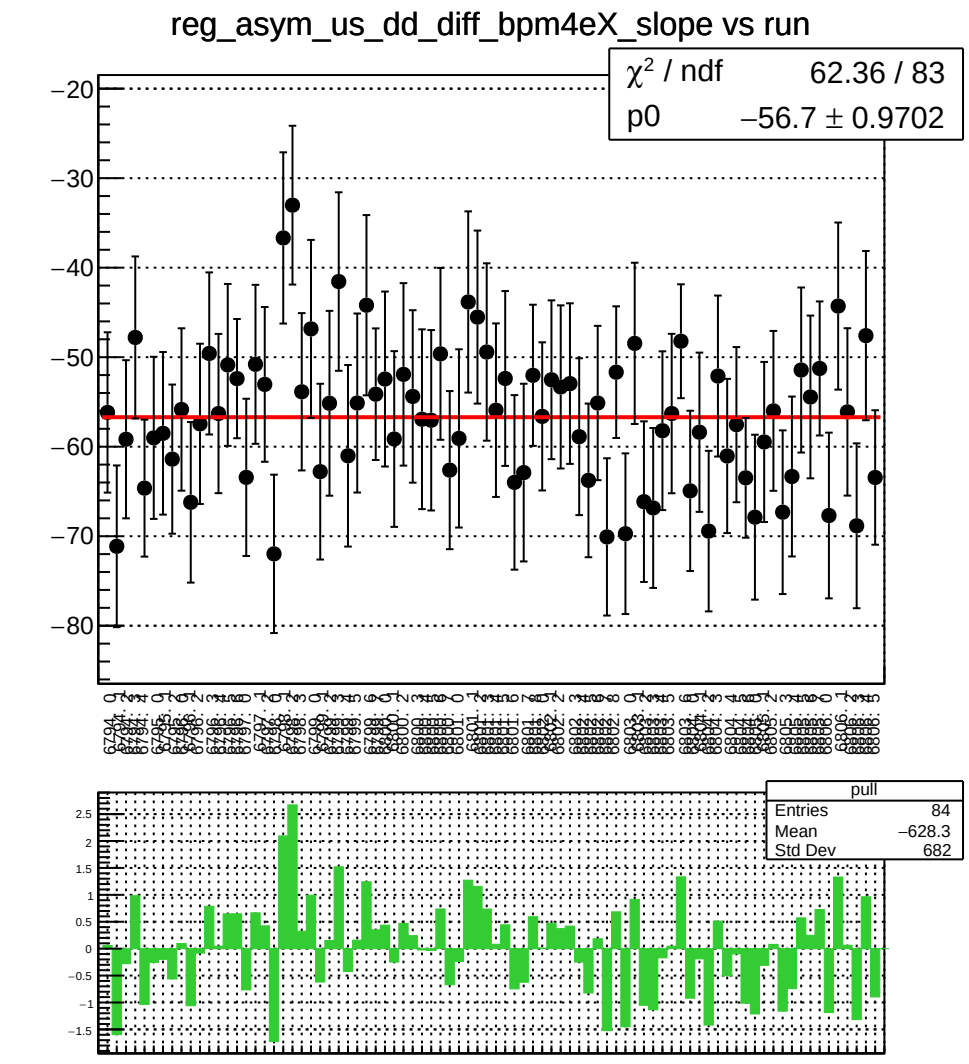

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 117.7 / 83
p0 −38.61 ± 0.05651
−37
−38
−39
−40
−41
−42
pull
Entries 84
Mean −3.202e+04
Std Dev 3.208e+04
2
1
0
−1
−2
−3
−4
−5
−6

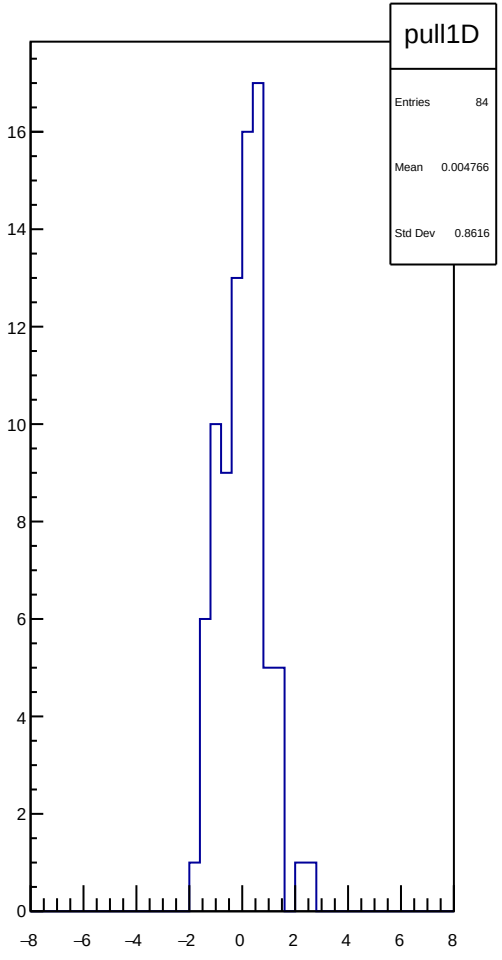

pull1D
Entries 84
Mean −0.0001838
Std Dev 1.184
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

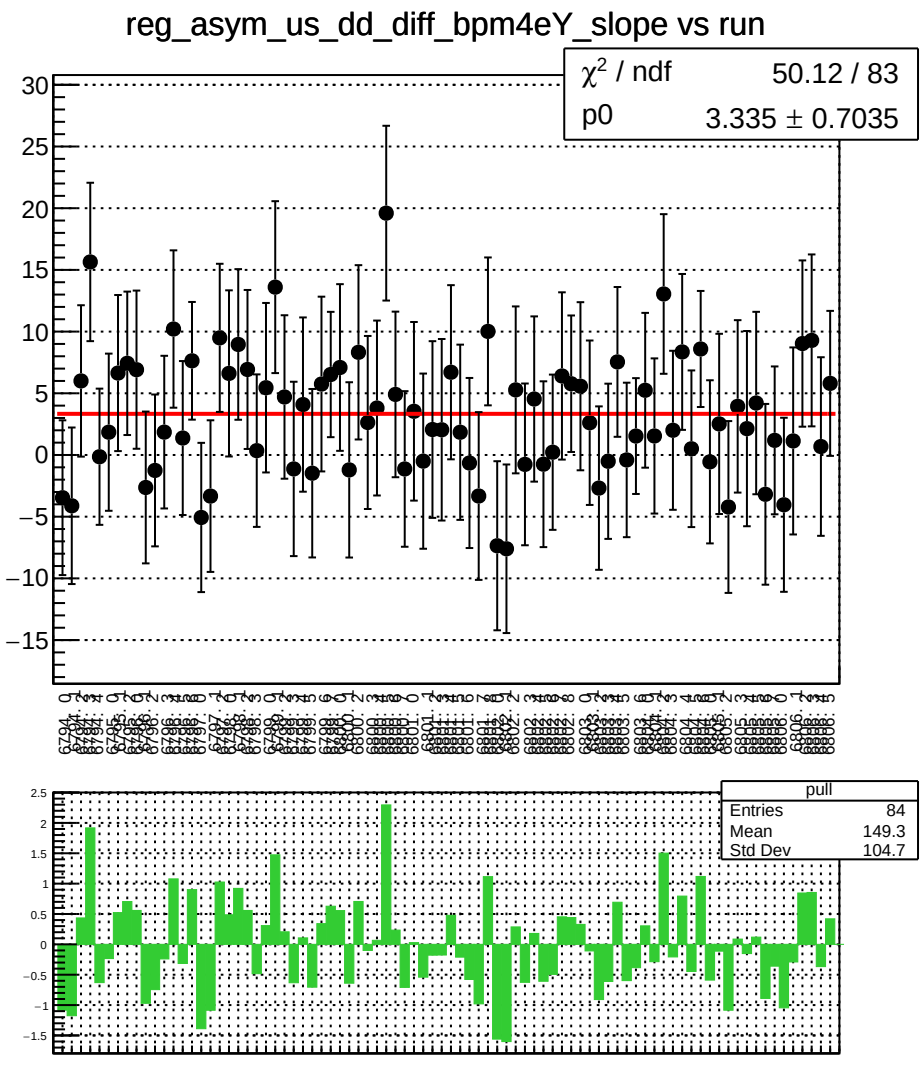

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 60.48 / 83
p0 −3.082 ± 1.035
pull
Entries 84
Mean −1199
Std Dev 1253
pull1D
Entries 84
Mean −0.002744
Std Dev 0.8485

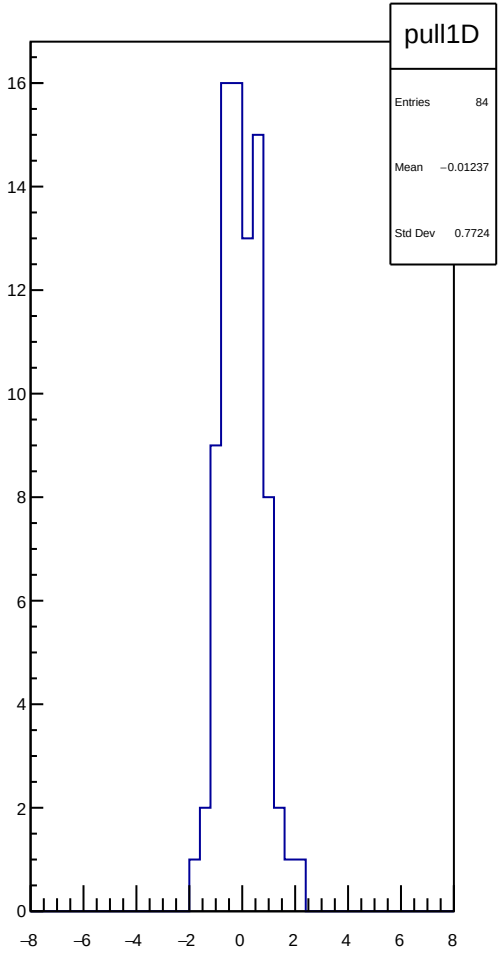

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 48.52 / 83
p0 −0.9924 ± 0.503
pull
Entries 84
Mean 146.4
Std Dev 100.8

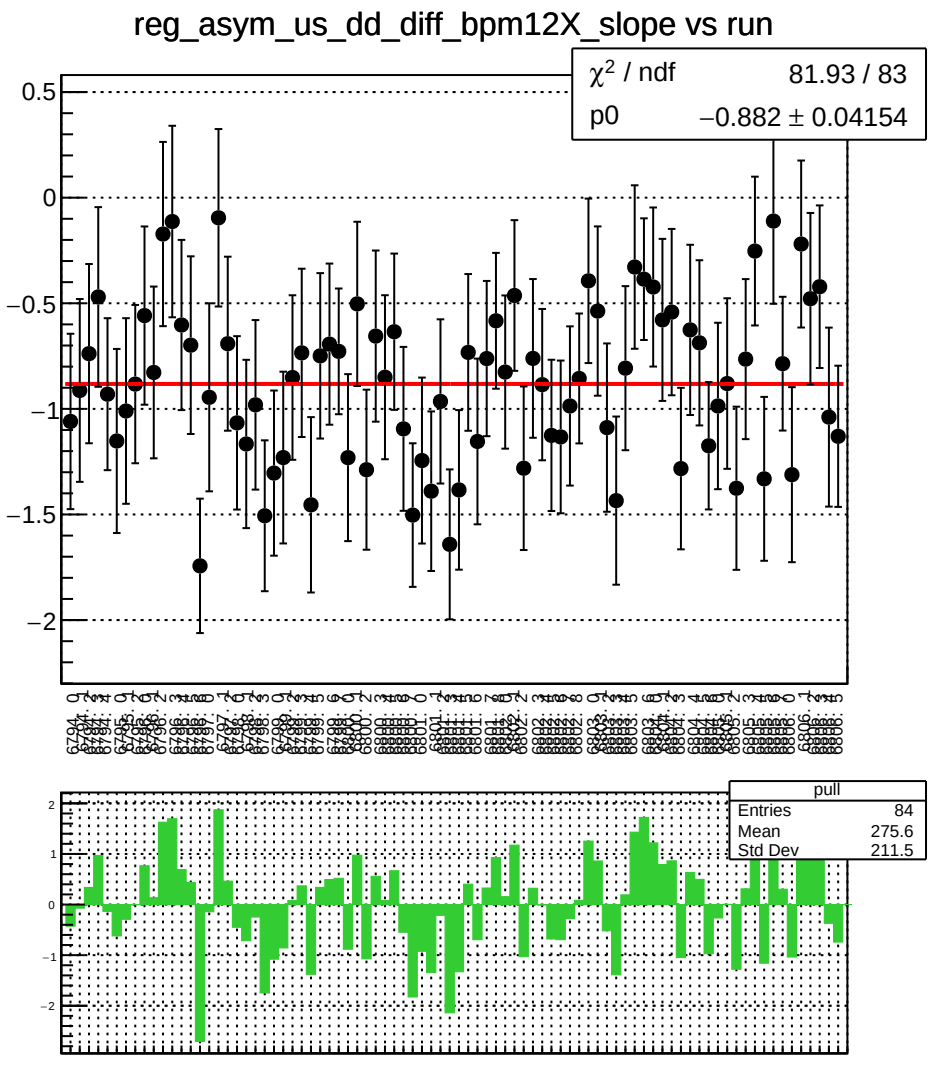

pull1D
Entries 84
Mean 0.01204
Std Dev 0.7599

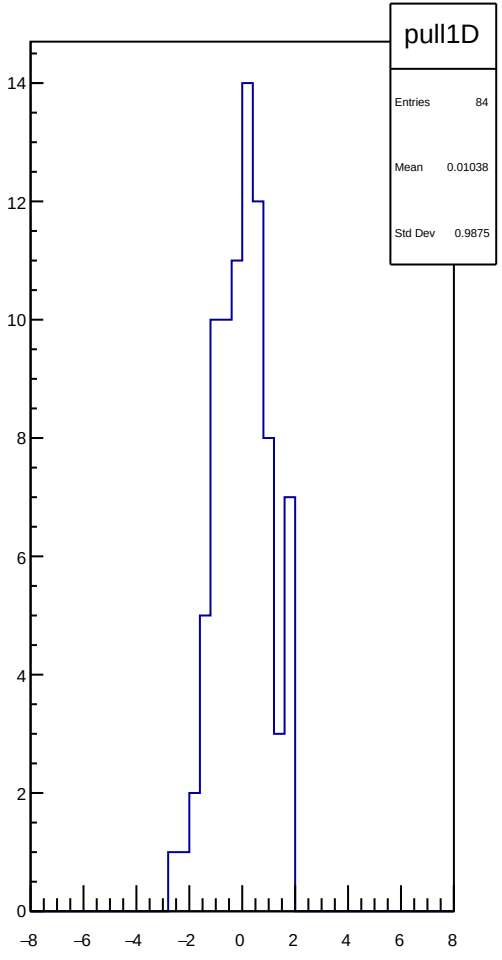

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.36 / 83
p0 −56.7 ± 0.9702
pull
Entries 84
Mean −628.3
Std Dev 682

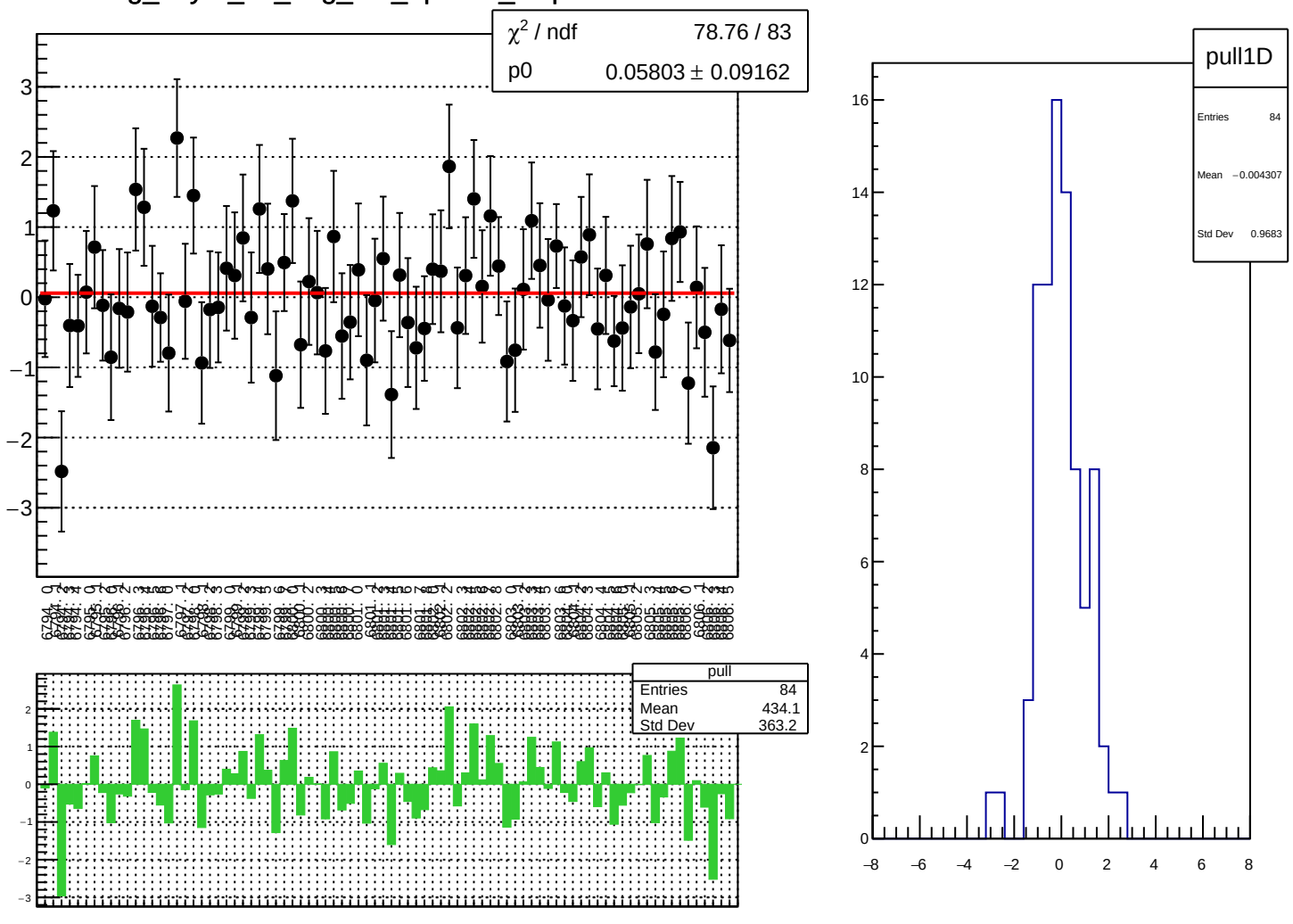

pull1D
Entries 84
Mean 0.004766
Std Dev 0.8616

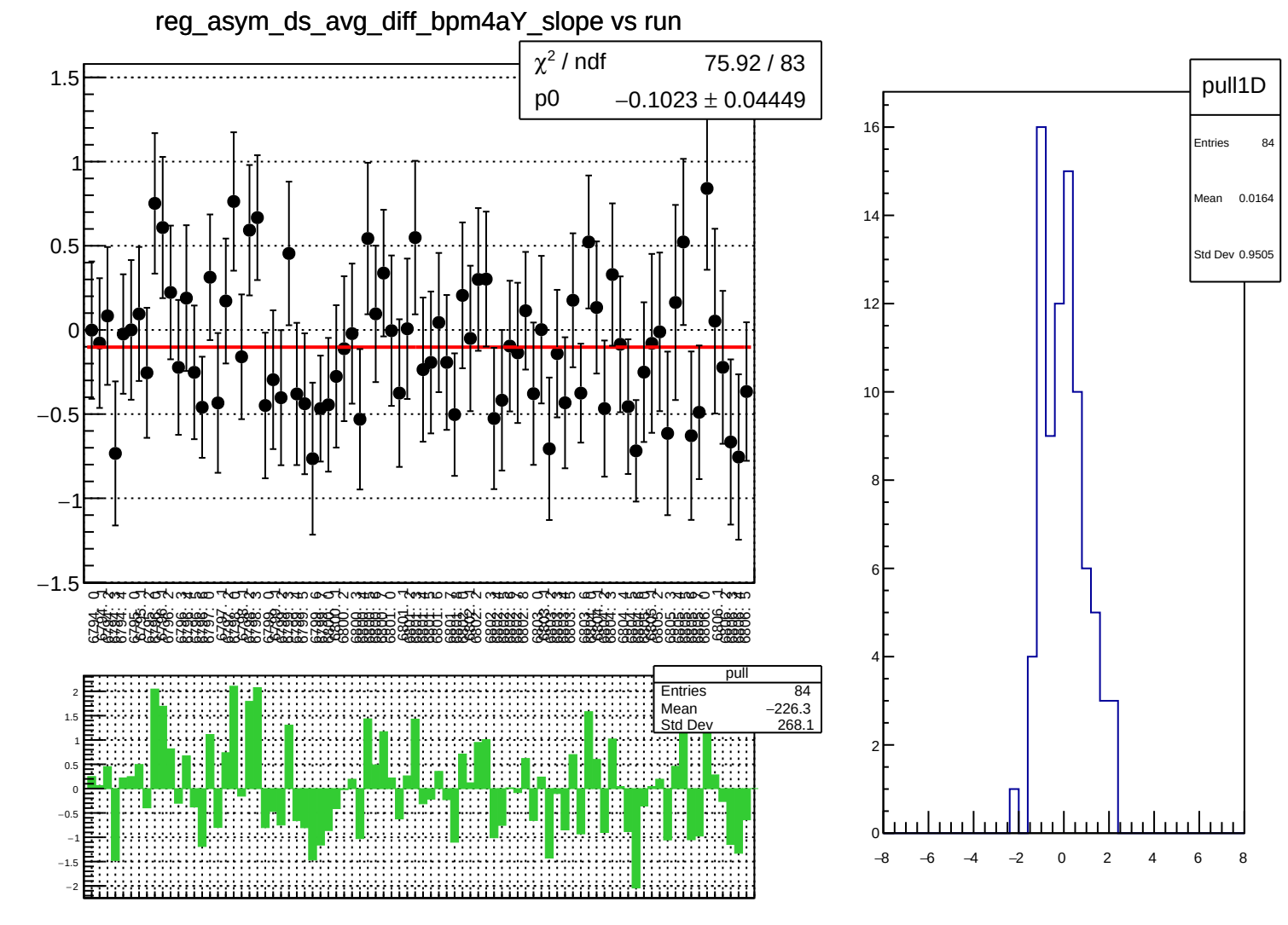

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.12 / 83
p0 3.335 ± 0.7035
pull
Entries 84
Mean 149.3
Std Dev 104.7

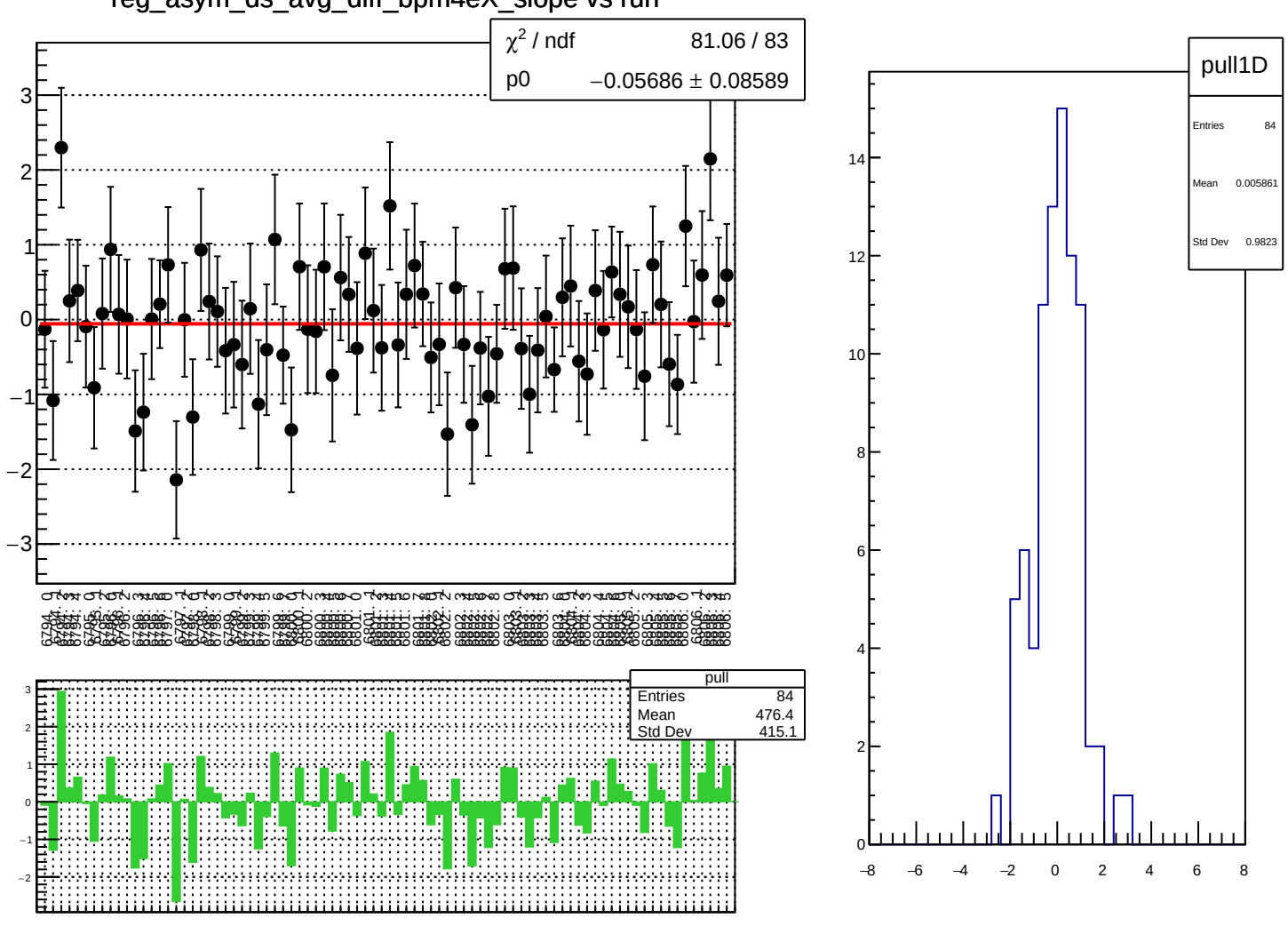

pull1D
Entries 84
Mean −0.01237
Std Dev 0.7724

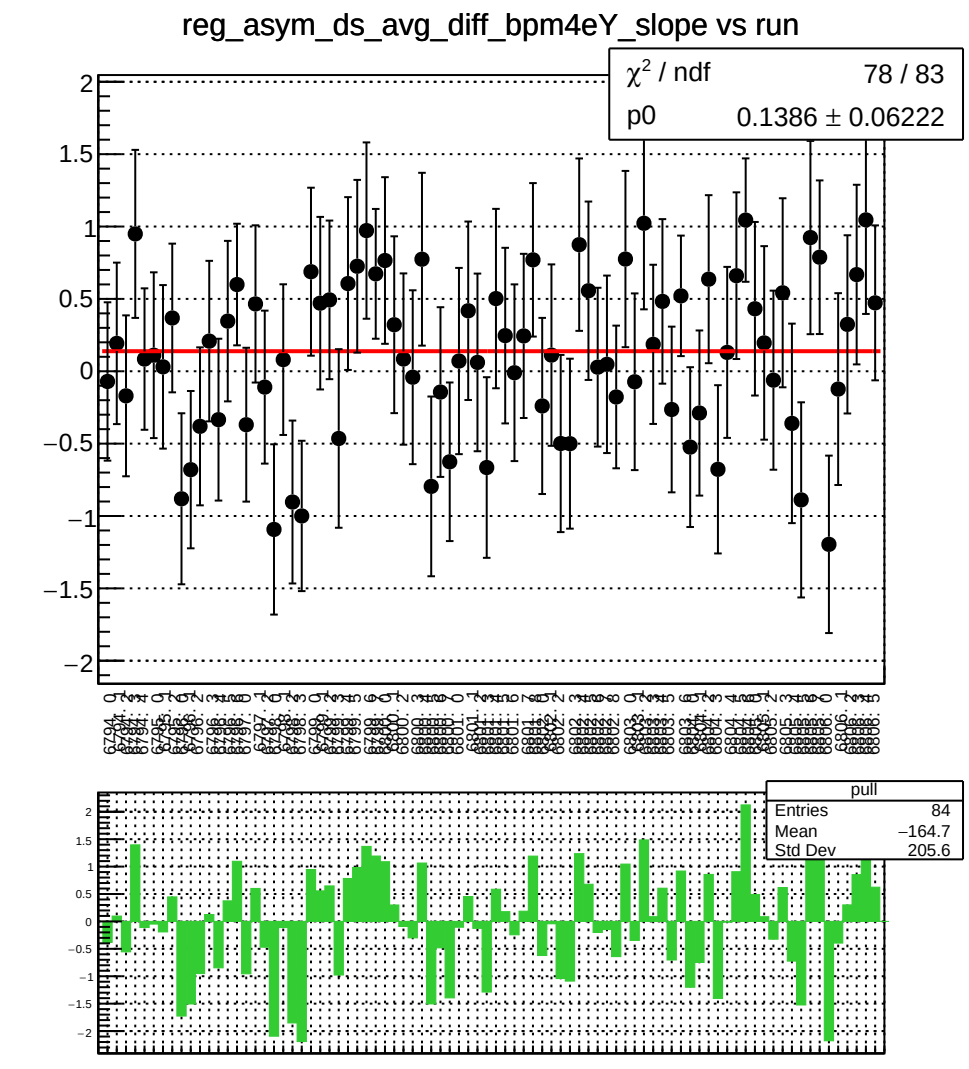

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 81.93 / 83
p0 −0.882 ± 0.04154
pull
Entries 84
Mean 275.6
Std Dev 211.5

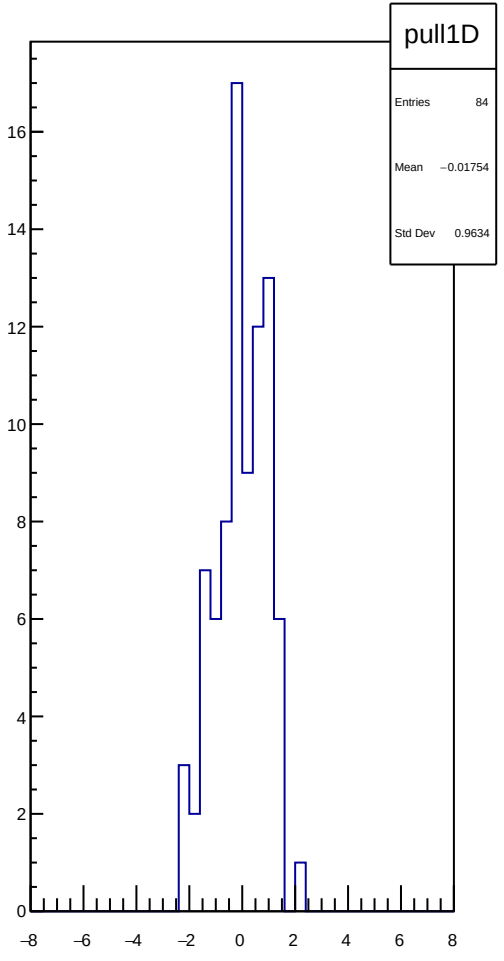

pull1D
Entries 84
Mean 0.01038
Std Dev 0.9875

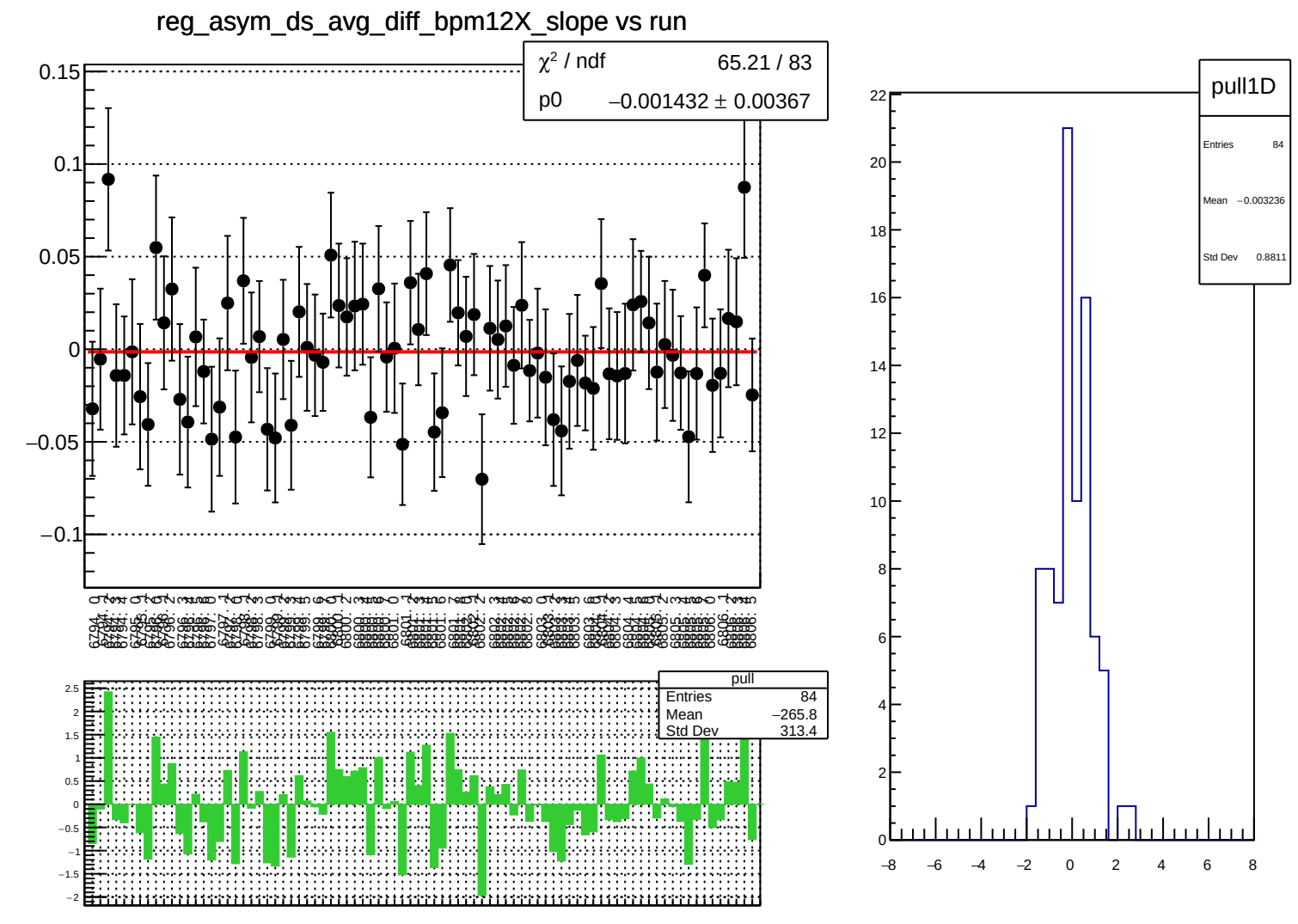

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 78.76 / 83
p0 0.05803 ± 0.09162
pull
Entries 84
Mean 434.1
Std Dev 363.2
pull1D
Entries 84
Mean −0.004307
Std Dev 0.9683

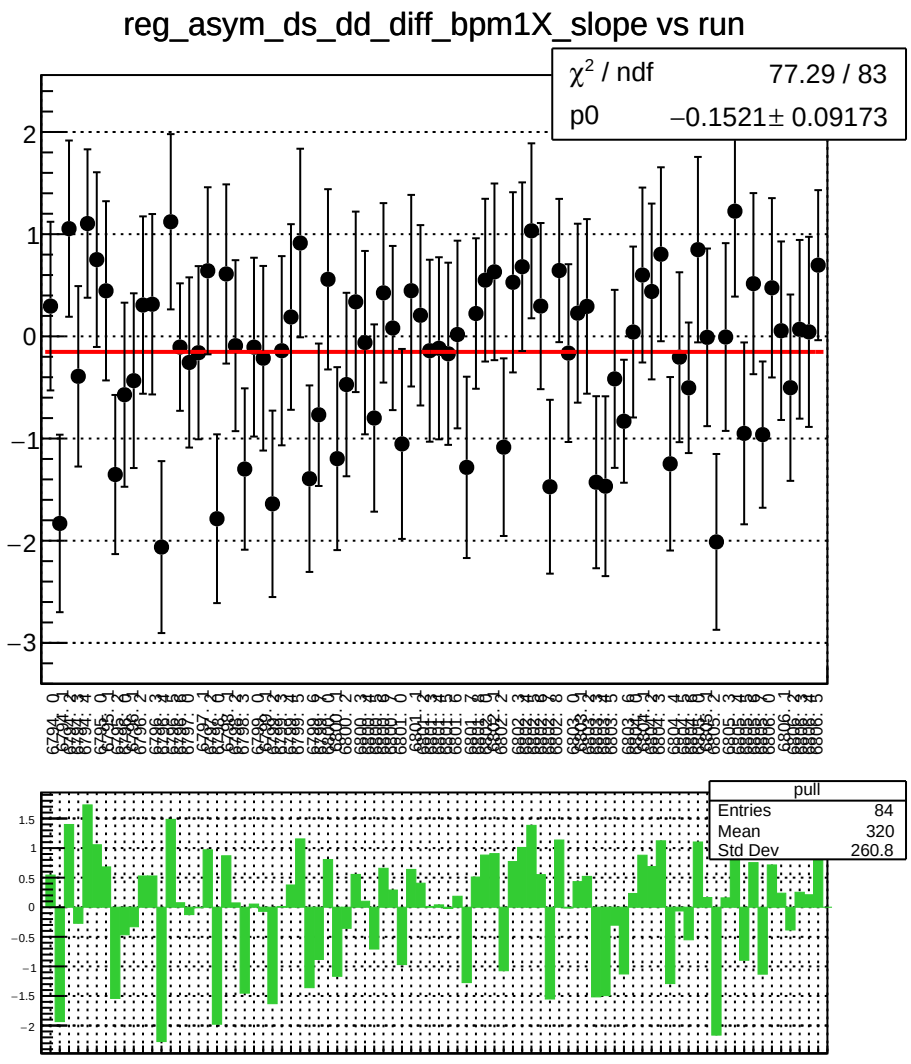

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 75.92 / 83
p0 −0.1023 ± 0.04449
pull
Entries 84
Mean −226.3
Std Dev 268.1
pull1D
Entries 84
Mean 0.0164
Std Dev 0.9505

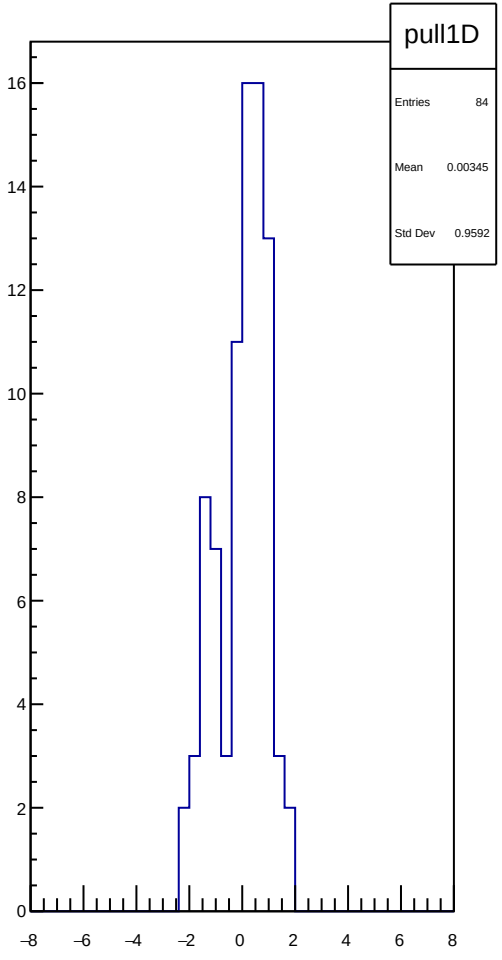

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 81.06 / 83
p0 −0.05686 ± 0.08589
pull
Entries 84
Mean 476.4
Std Dev 415.1
pull1D
Entries 84
Mean 0.005861
Std Dev 0.9823

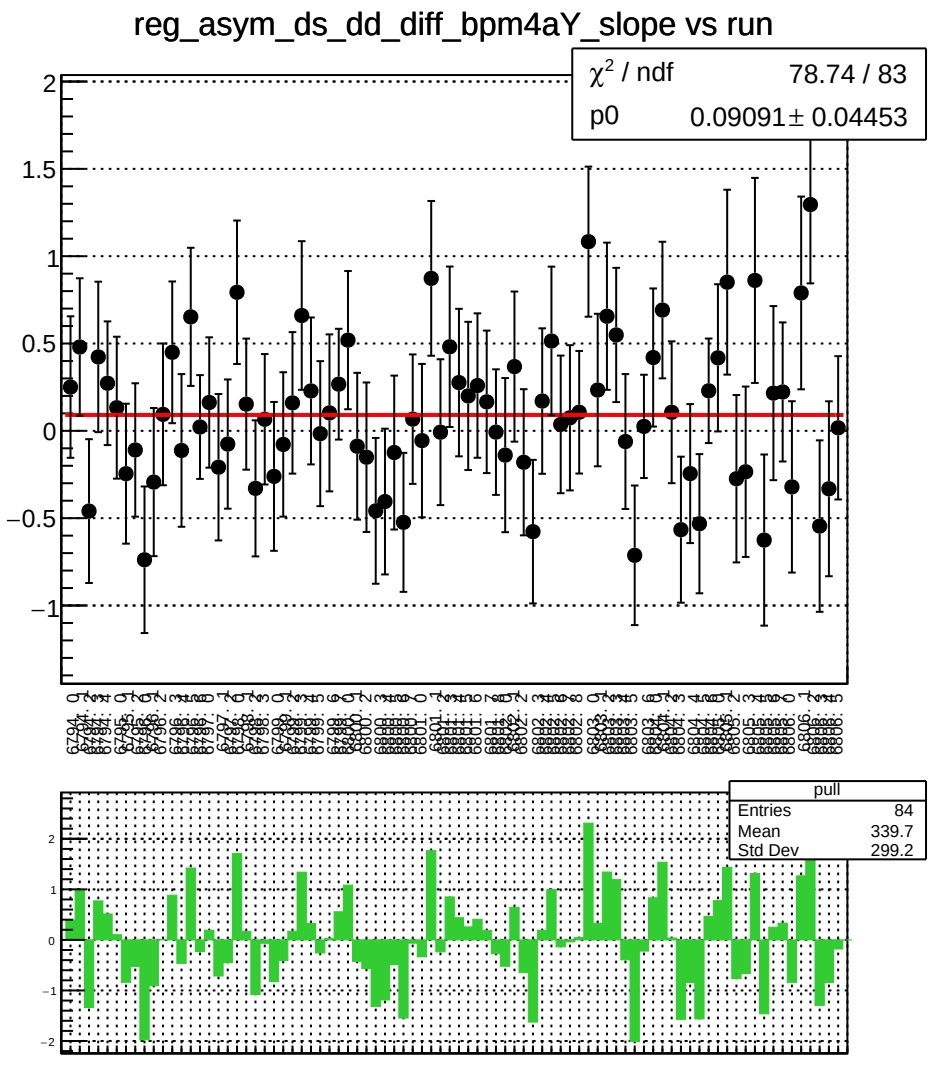

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 78 / 83
p0 0.1386 ± 0.06222
pull
Entries 84
Mean −164.7
Std Dev 205.6

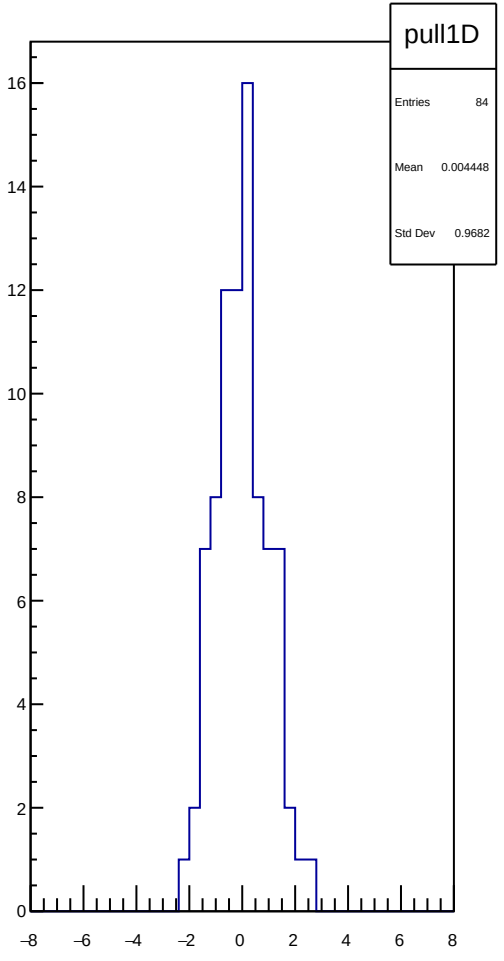

pull1D
Entries 84
Mean −0.01754
Std Dev 0.9634

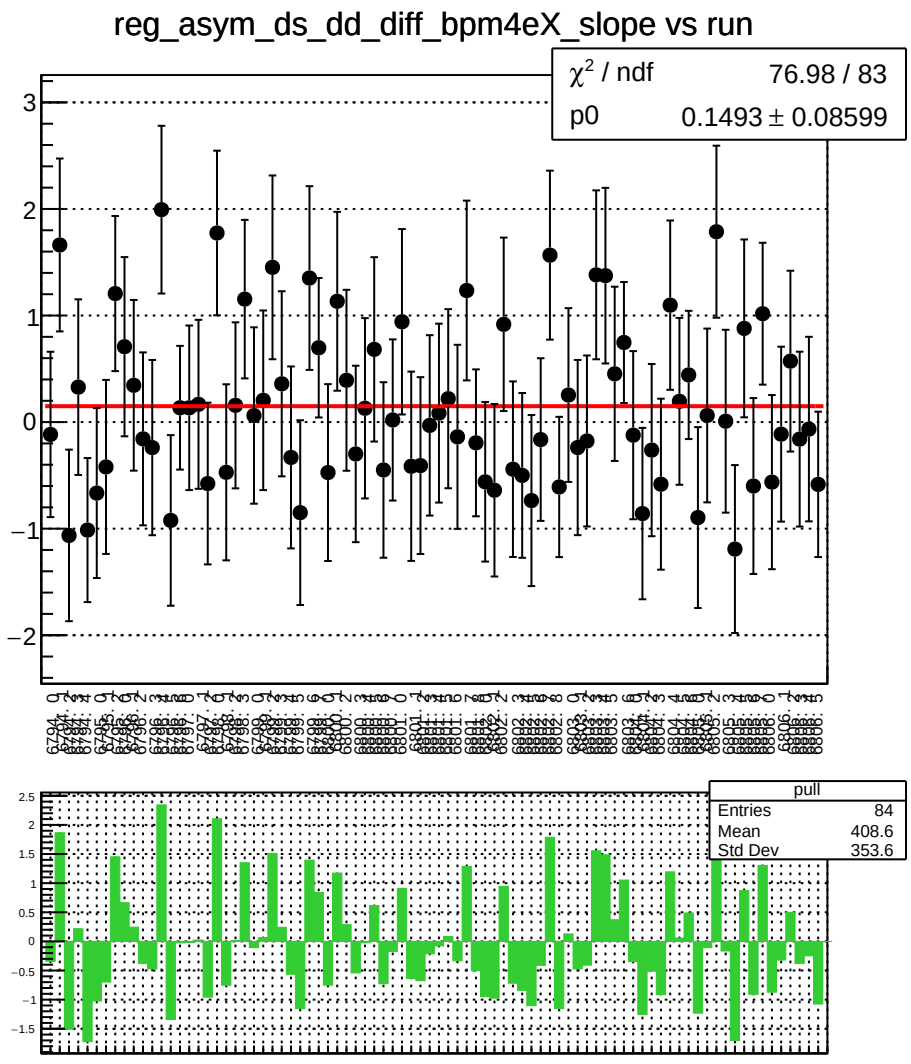

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 65.21 / 83
p0 −0.001432 ± 0.00367
pull
Entries 84
Mean −265.8
Std Dev 313.4
pull1D
Entries 84
Mean −0.003236
Std Dev 0.8811

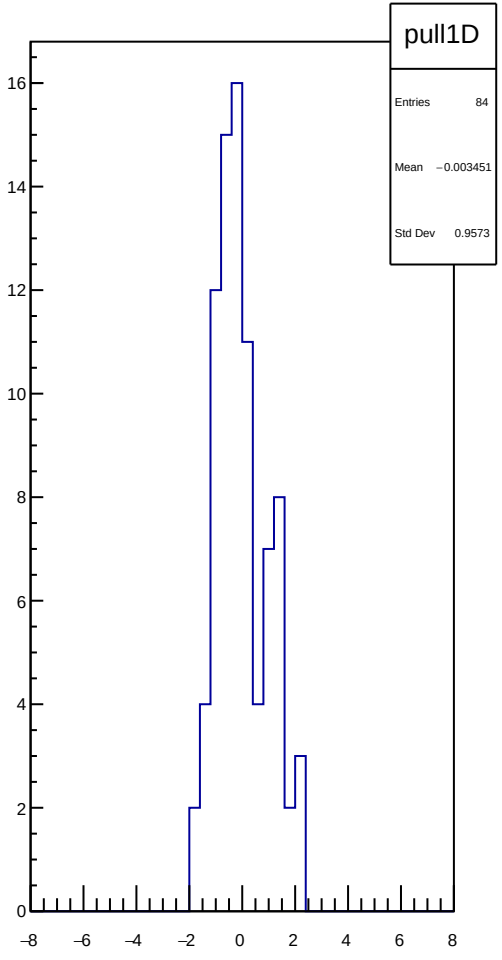

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 77.29 / 83
p0 −0.1521± 0.09173
pull
Entries 84
Mean 320
Std Dev 260.8

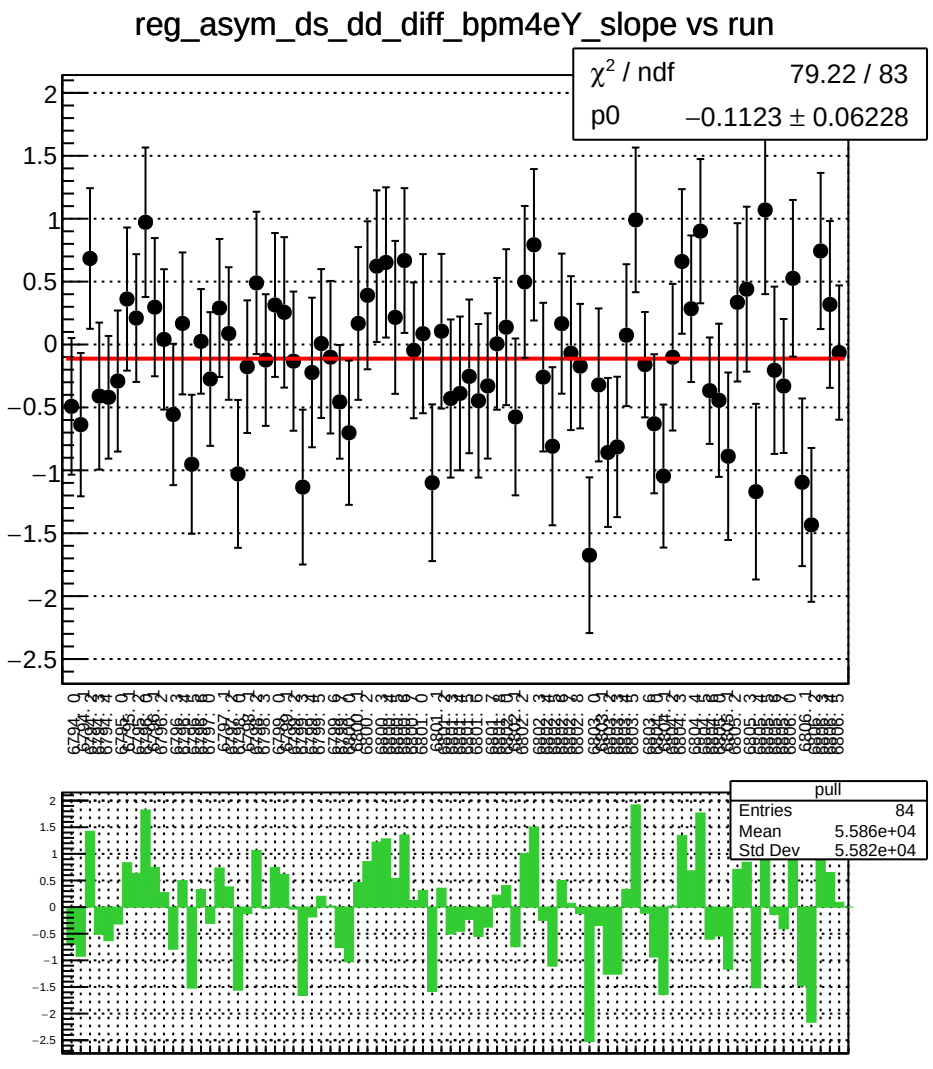

pull1D
Entries 84
Mean 0.00345
Std Dev 0.9592

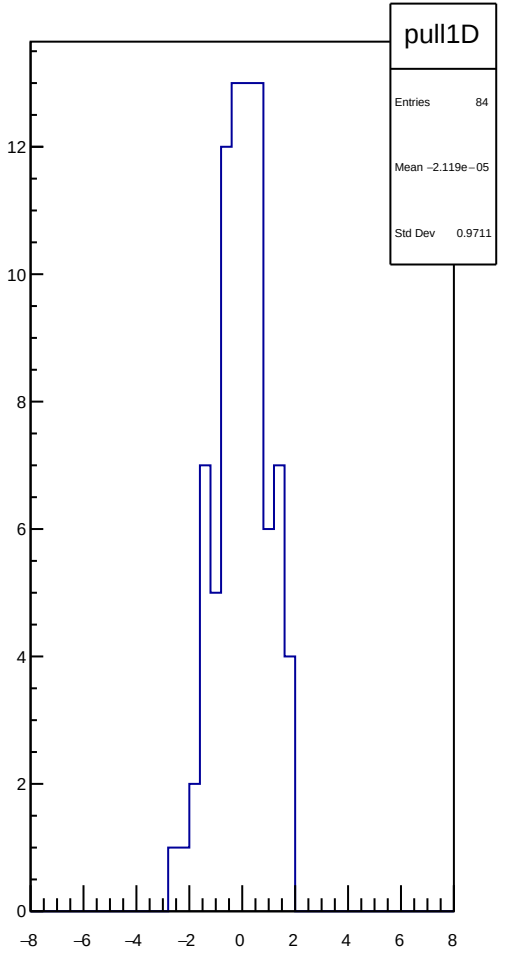

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.74 / 83
p0 0.09091 ± 0.04453
pull
Entries 84
Mean 339.7
Std Dev 299.2

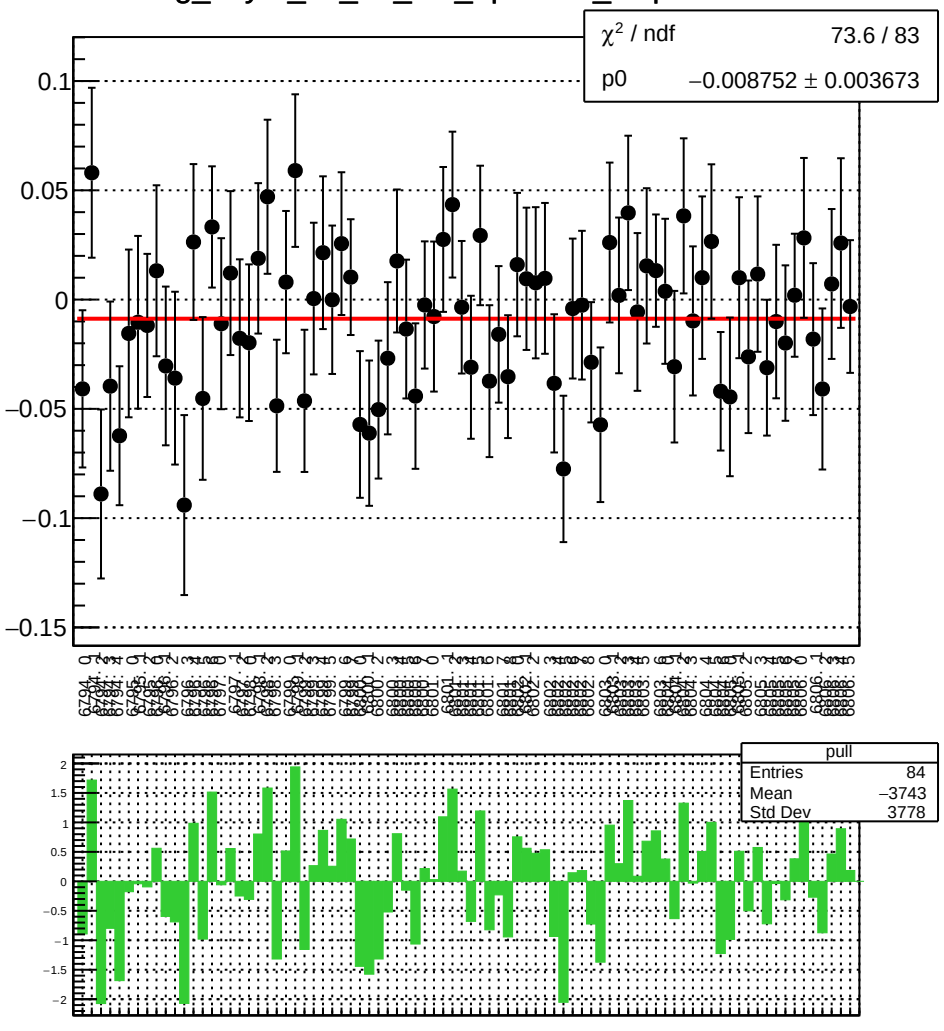

pull1D
Entries 84
Mean 0.004448
Std Dev 0.9682

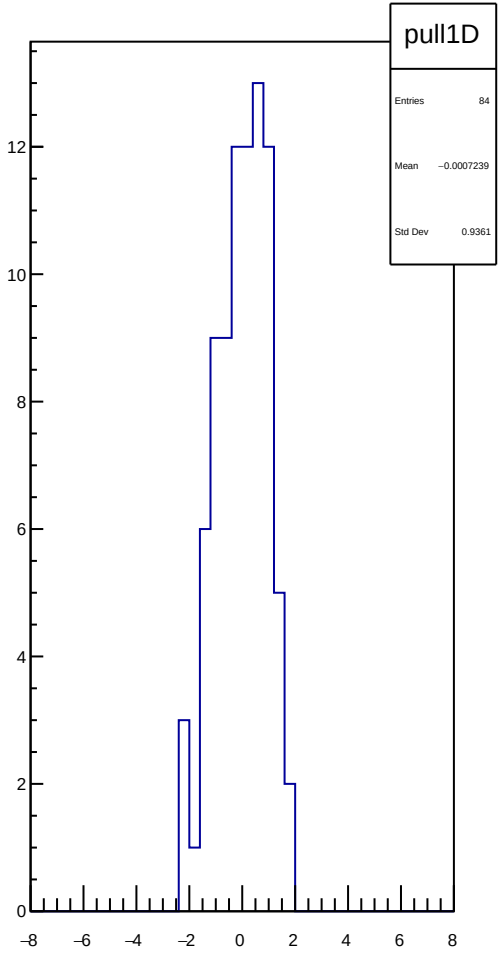

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 76.98 / 83
p0 0.1493 ± 0.08599
pull
Entries 84
Mean 408.6
Std Dev 353.6

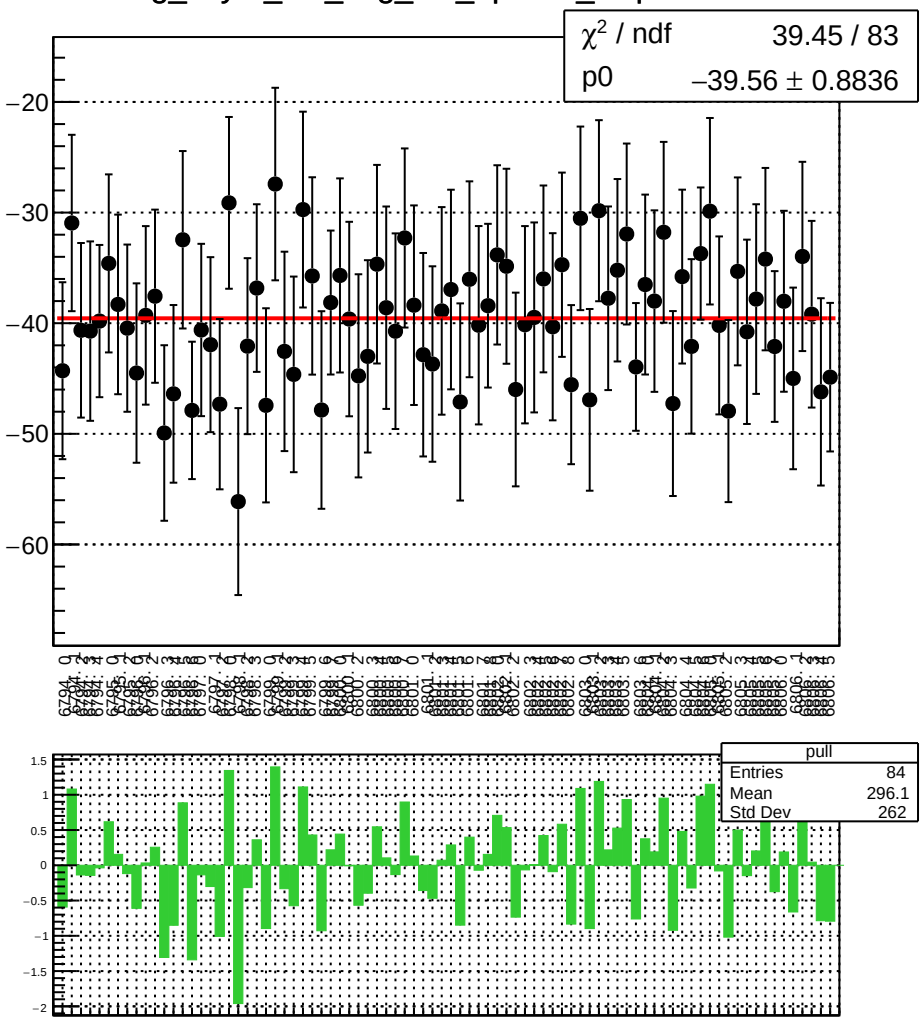

pull1D
Entries 84
Mean −0.003451
Std Dev 0.9573

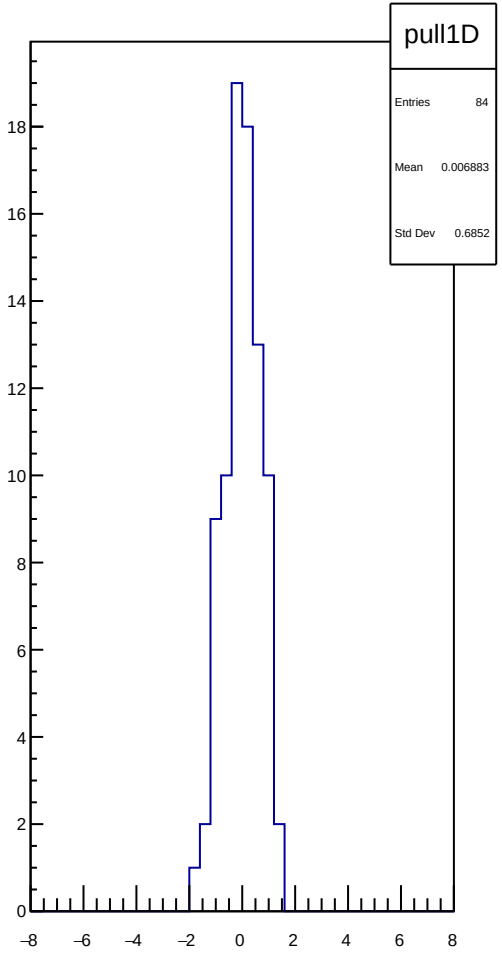

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.22 / 83
p0 −0.1123 ± 0.06228
pull
Entries 84
Mean 5.586e+04
Std Dev 5.582e+04

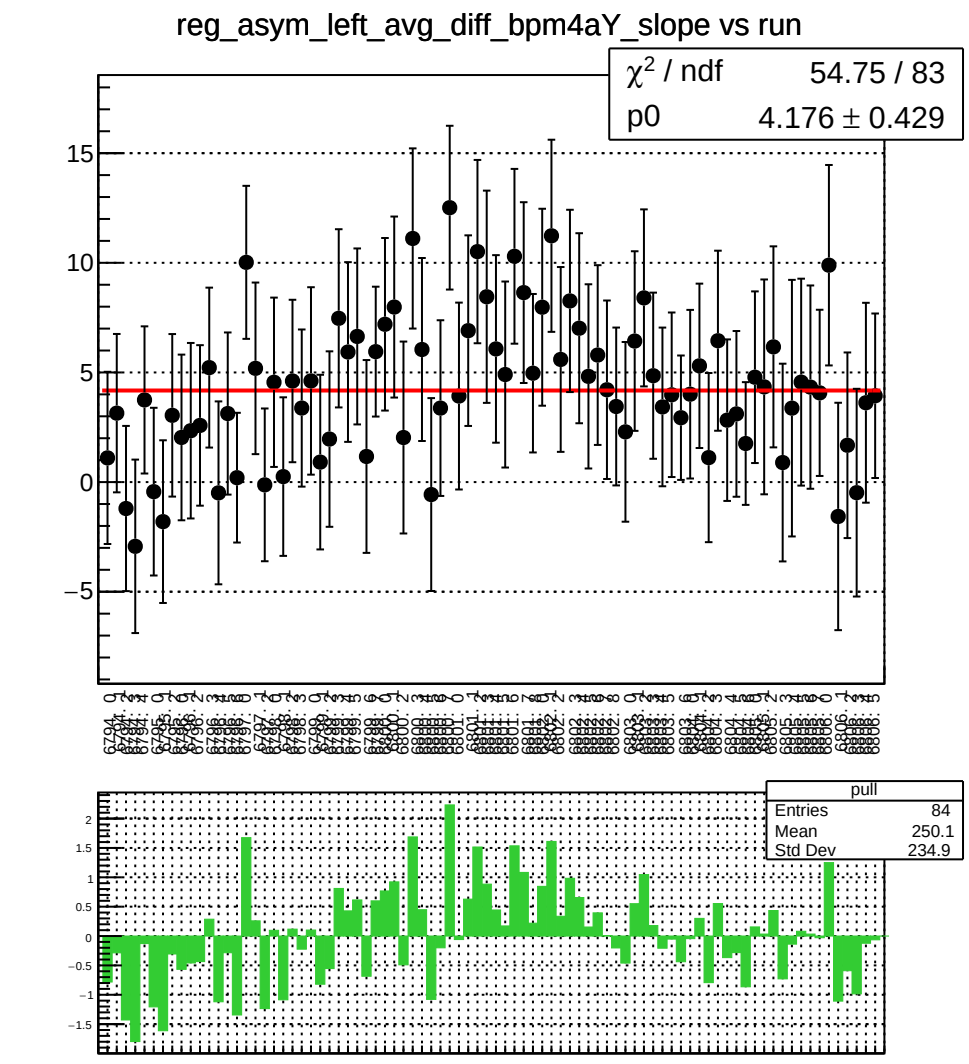

pull1D
Entries 84
Mean −2.119e−05
Std Dev 0.9711

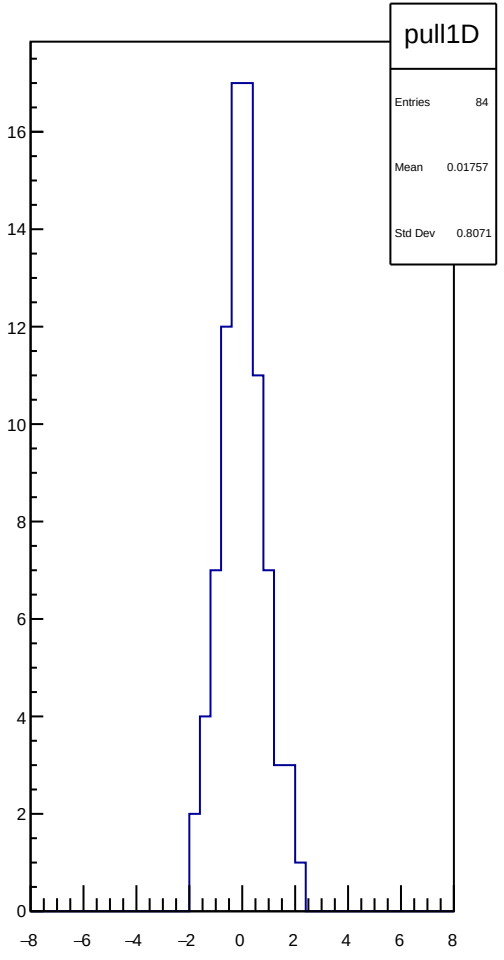

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 73.6 / 83
p0 −0.008752 ± 0.003673
pull
Entries 84
Mean −3743
Std Dev 3778

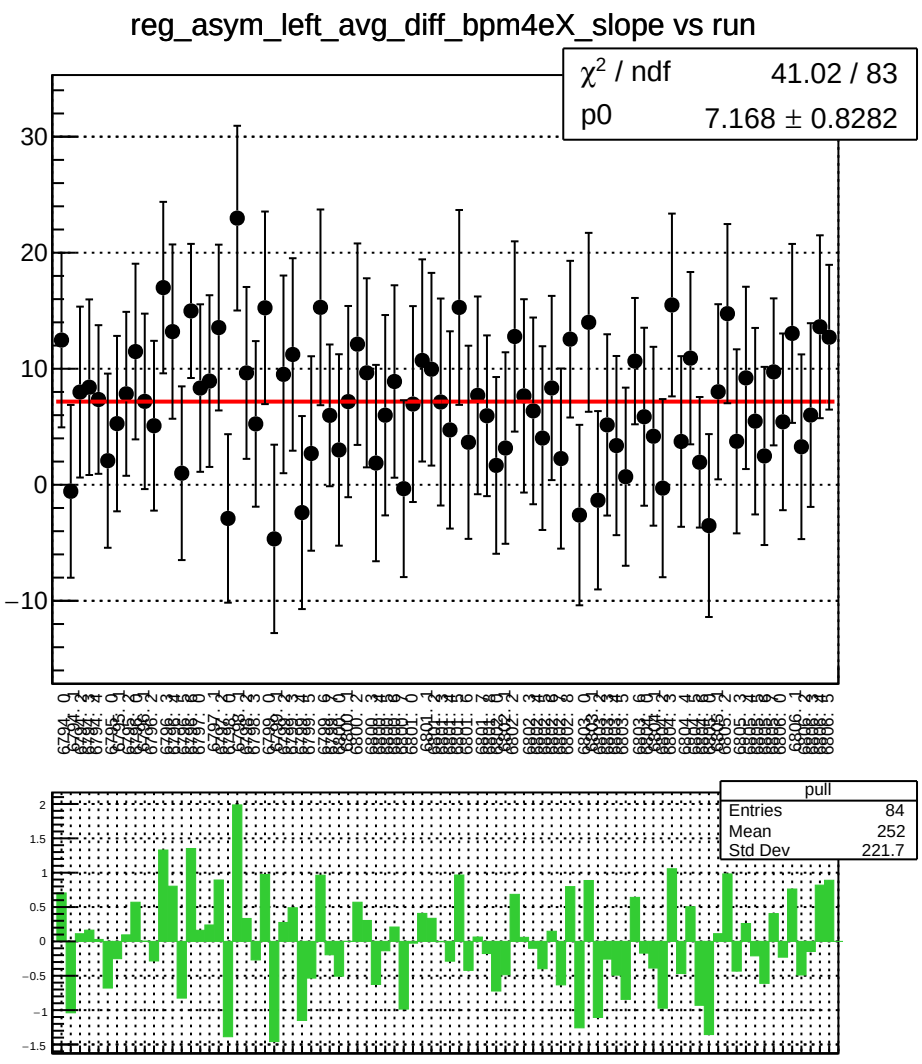

pull1D
Entries 84
Mean −0.0007239
Std Dev 0.9361

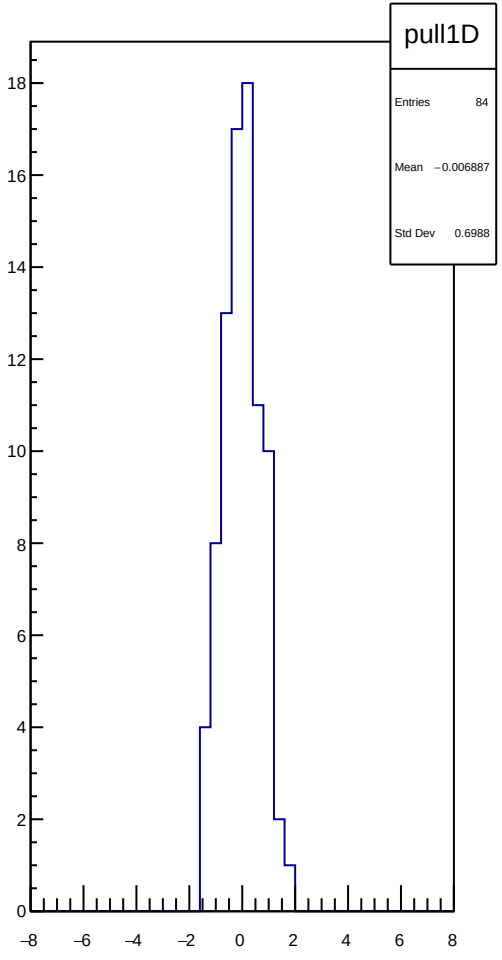

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 39.45 / 83
p0 −39.56 ± 0.8836
pull
Entries 84
Mean 296.1
Std Dev 262

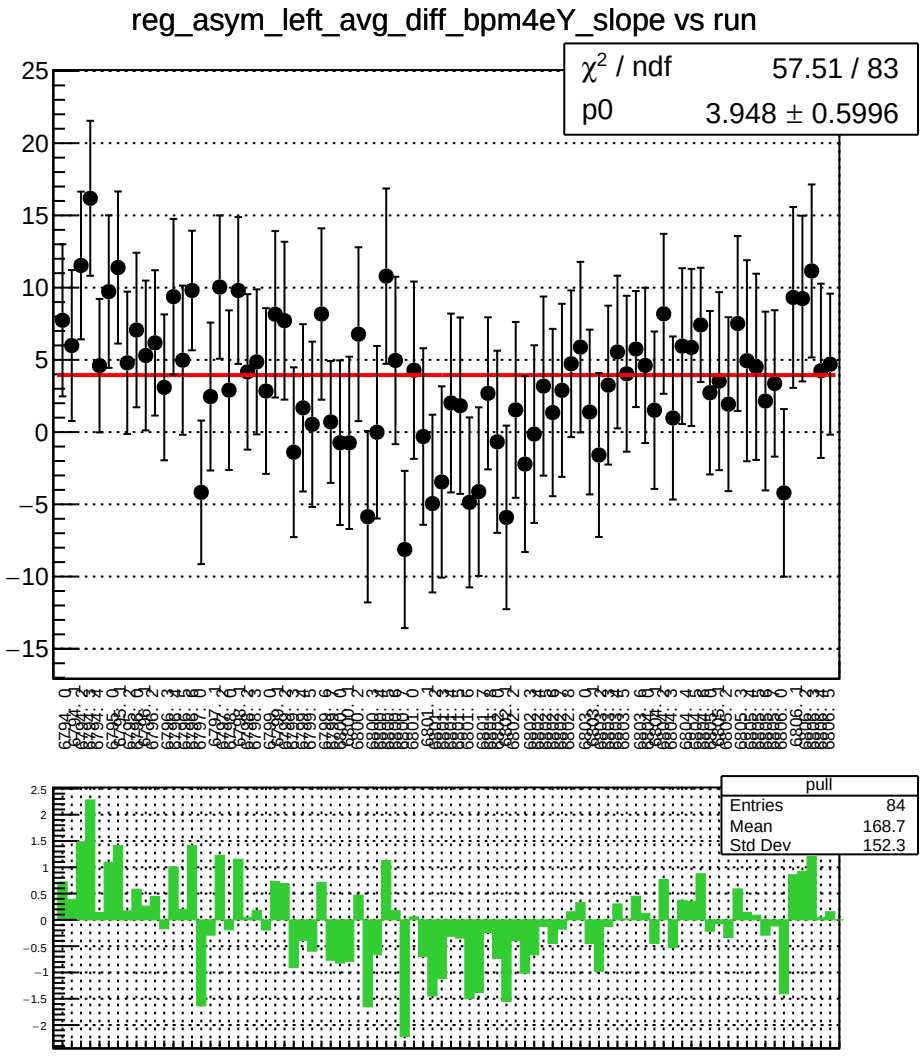

pull1D
Entries 84
Mean 0.006883
Std Dev 0.6852

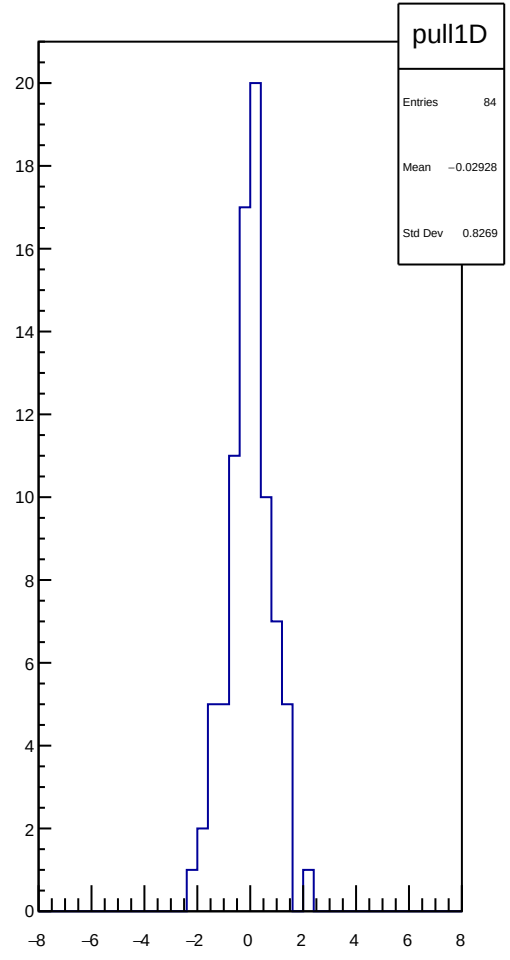

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 54.75 / 83
p0 4.176 ± 0.429
pull
Entries 84
Mean 250.1
Std Dev 234.9

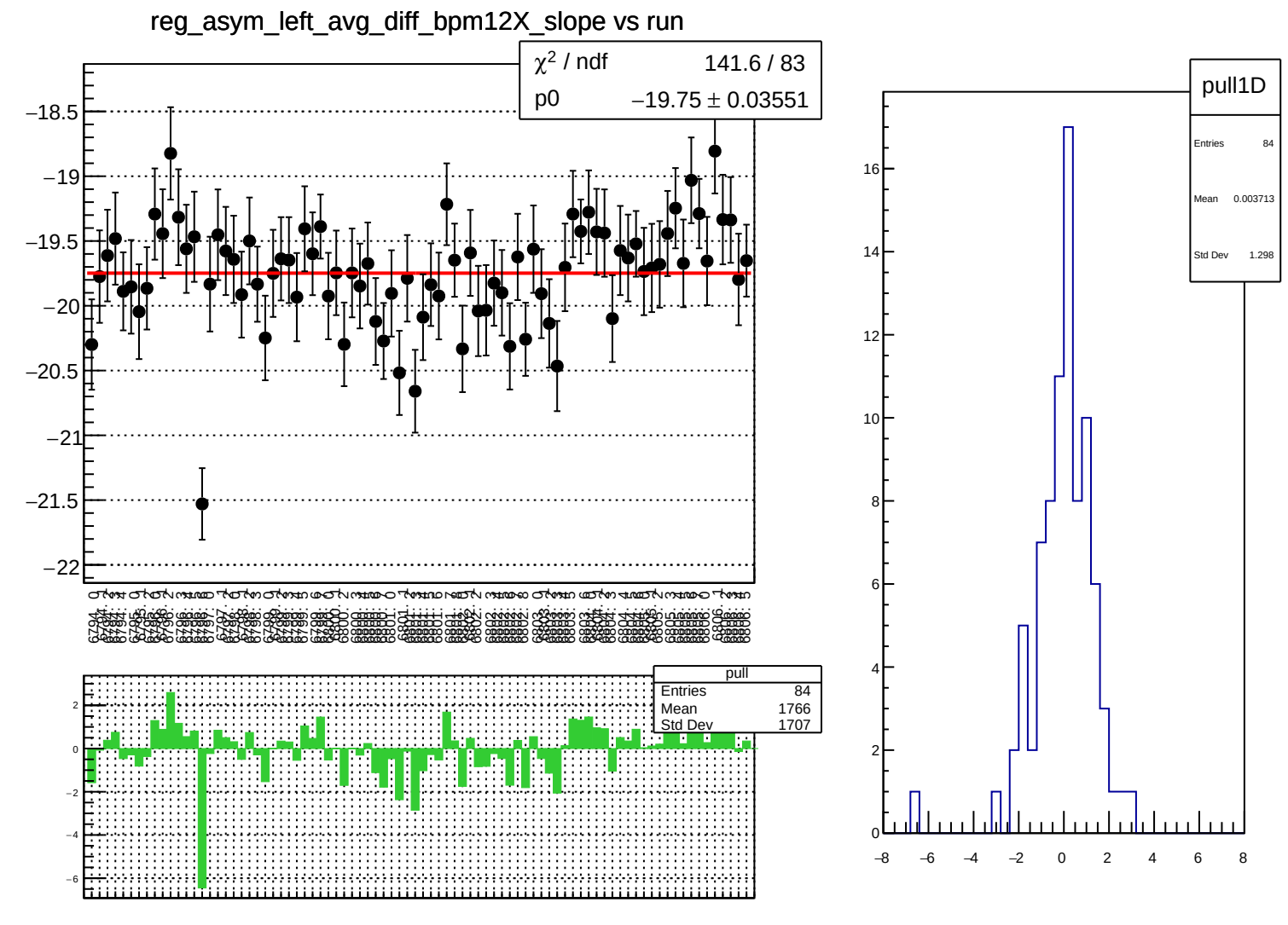

pull1D
Entries 84
Mean 0.01757
Std Dev 0.8071

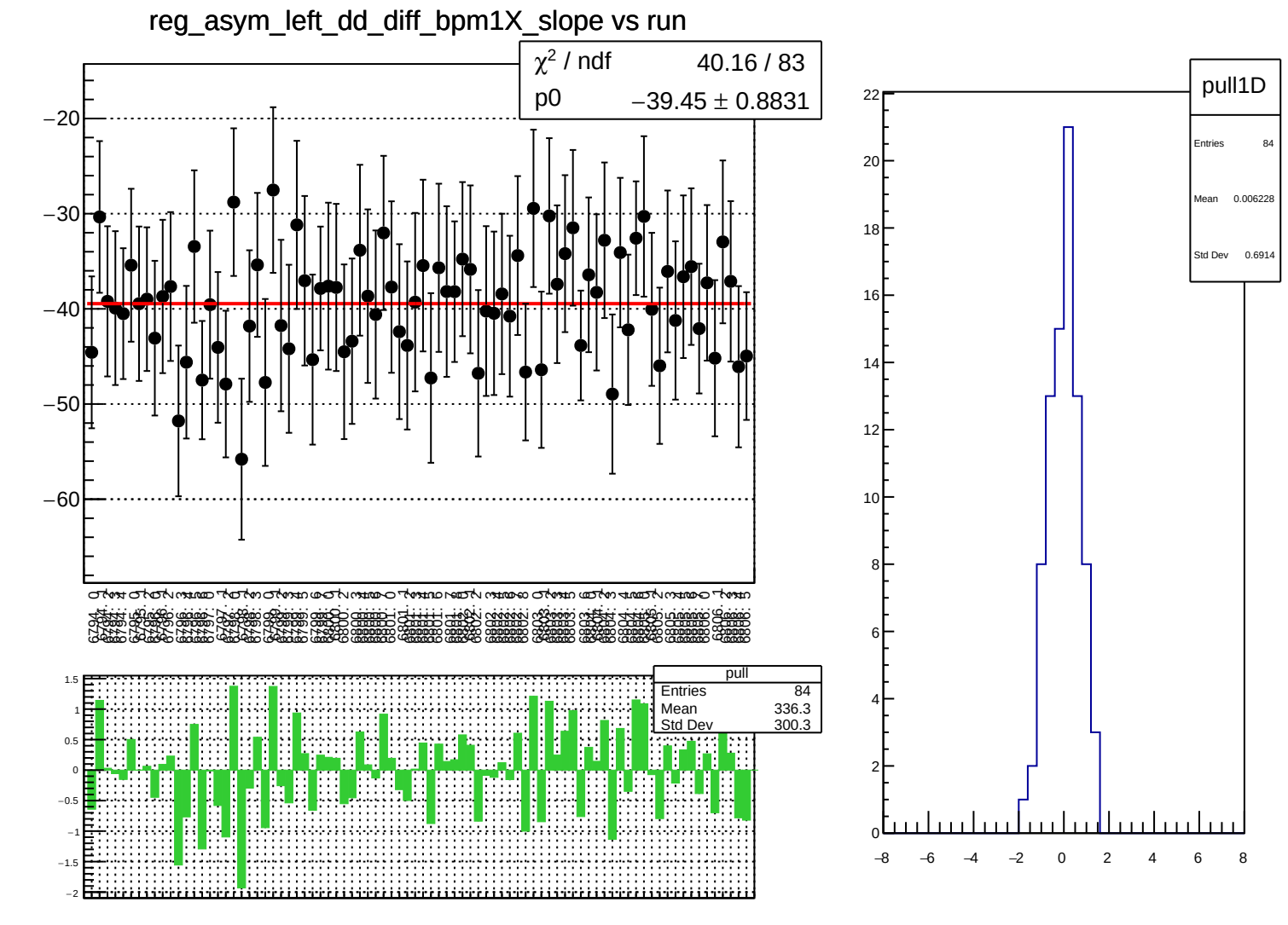

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.02 / 83
p0 7.168 ± 0.8282
pull
Entries 84
Mean 252
Std Dev 221.7

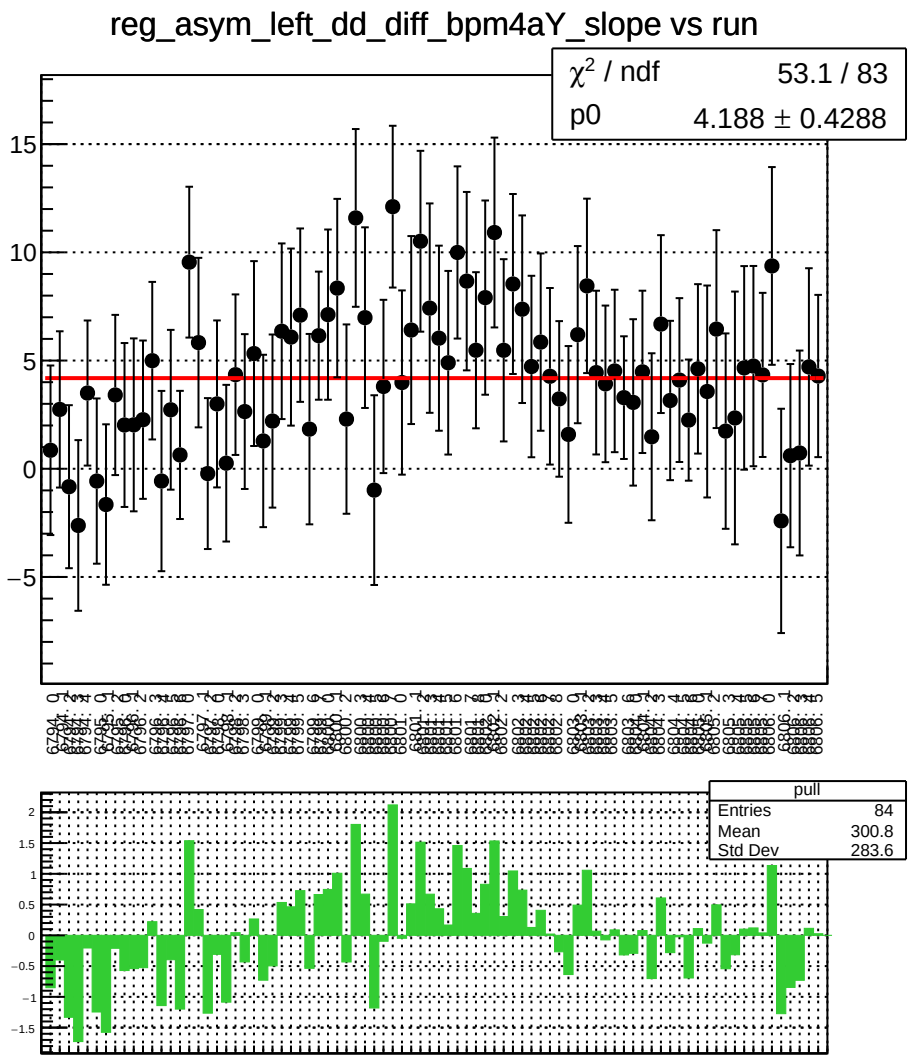

pull1D
Entries 84
Mean −0.006887
Std Dev 0.6988

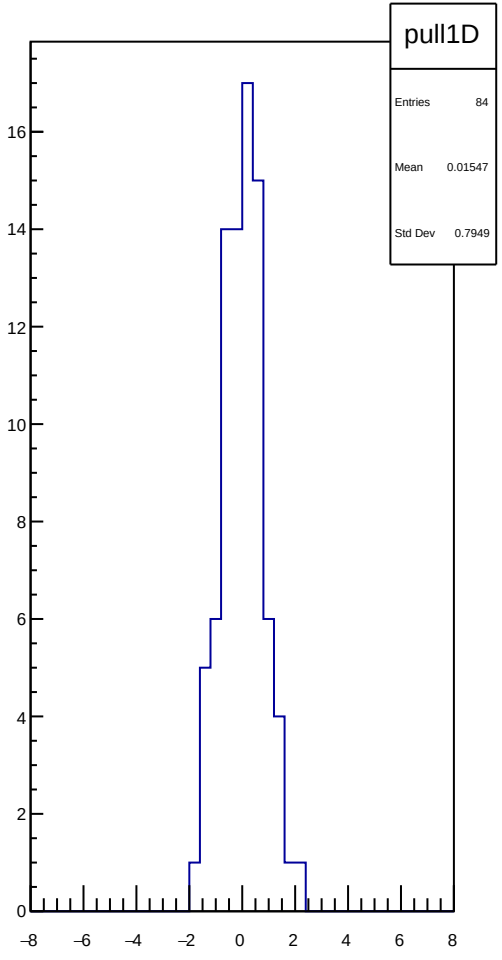

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 57.51 / 83
p0 3.948 ± 0.5996
pull
Entries 84
Mean 168.7
Std Dev 152.3

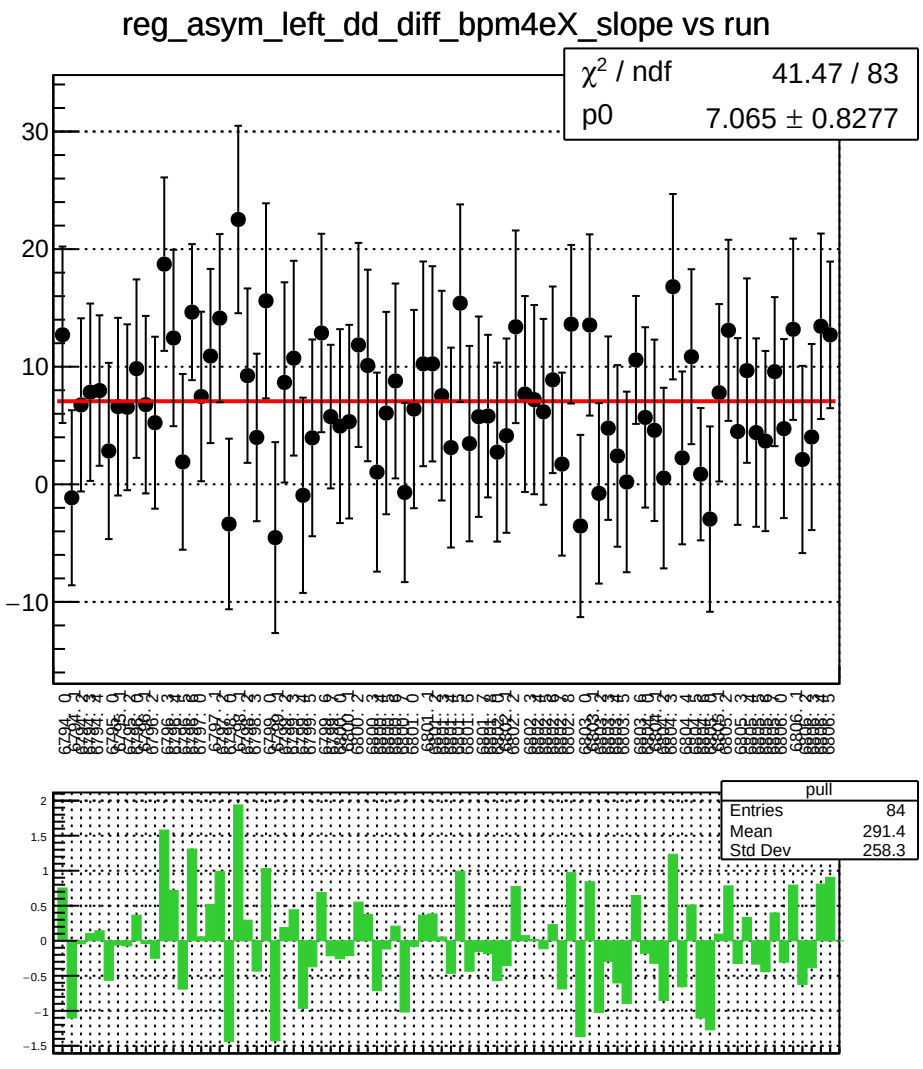

pull1D
Entries 84
Mean −0.02928
Std Dev 0.8269

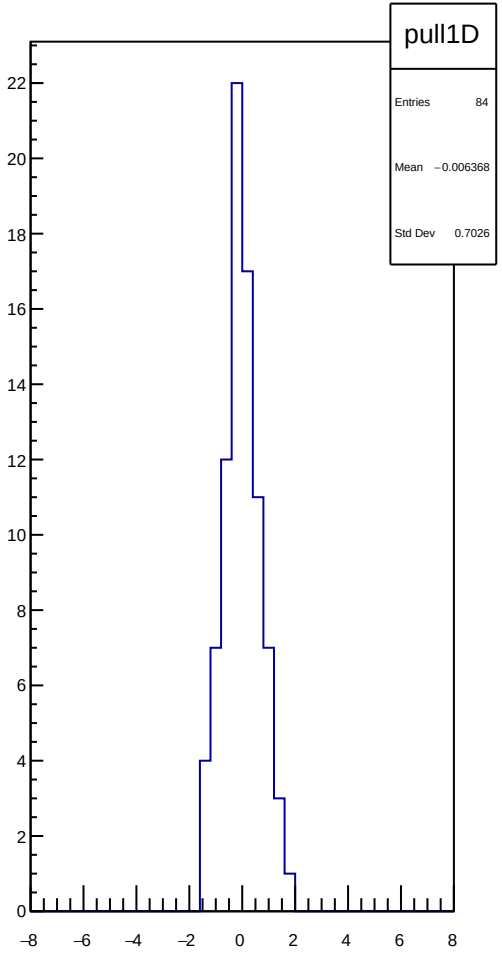

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 141.6 / 83
p0 −19.75 ± 0.03551
−18.5
−19
−19.5
−20
−20.5
−21
−21.5
−22
pull
Entries 84
Mean 1766
Std Dev 1707
2
0
−2
−4
−6
pull1D
Entries 84
Mean 0.003713
Std Dev 1.298
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

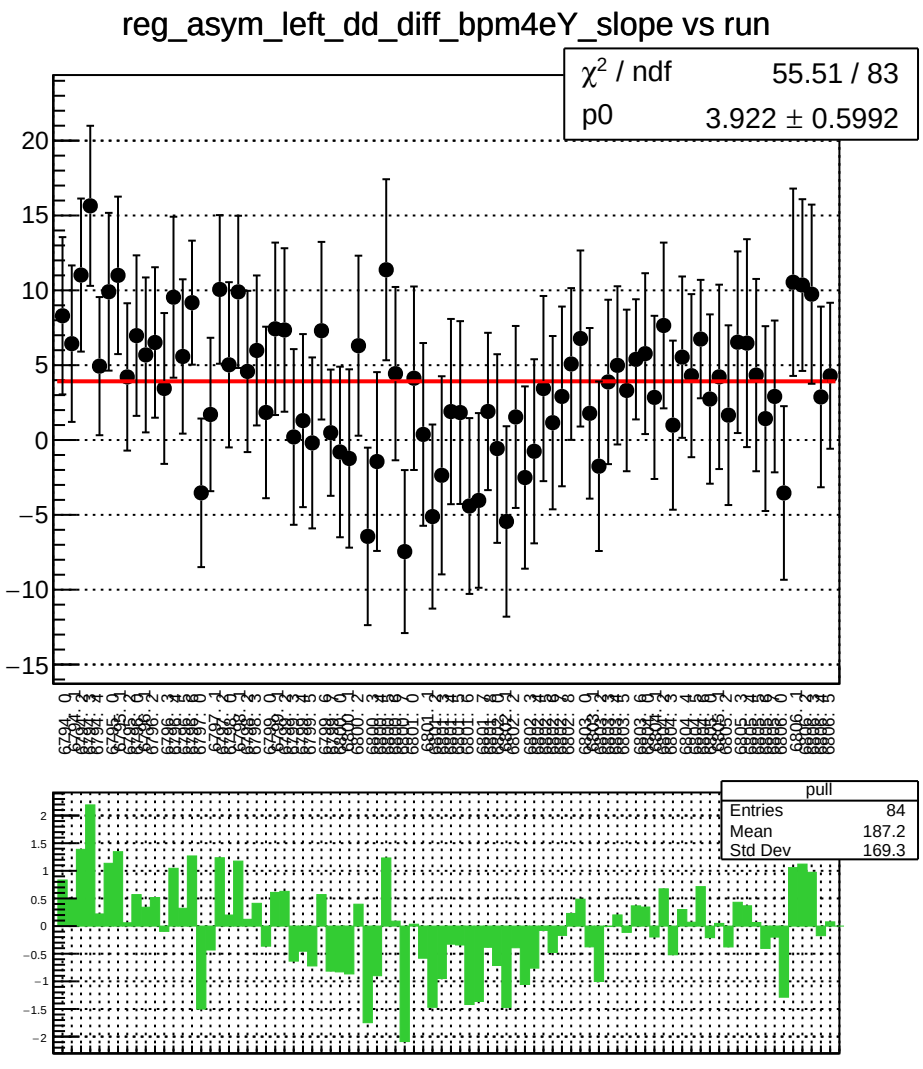

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 40.16 / 83
p0 −39.45 ± 0.8831
pull
Entries 84
Mean 336.3
Std Dev 300.3
pull1D
Entries 84
Mean 0.006228
Std Dev 0.6914

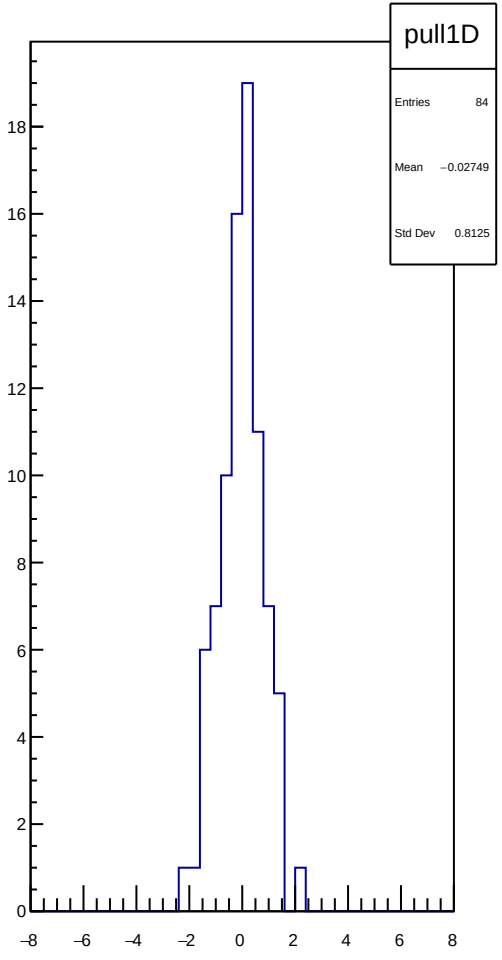

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.1 / 83
p0 4.188 ± 0.4288
pull
Entries 84
Mean 300.8
Std Dev 283.6

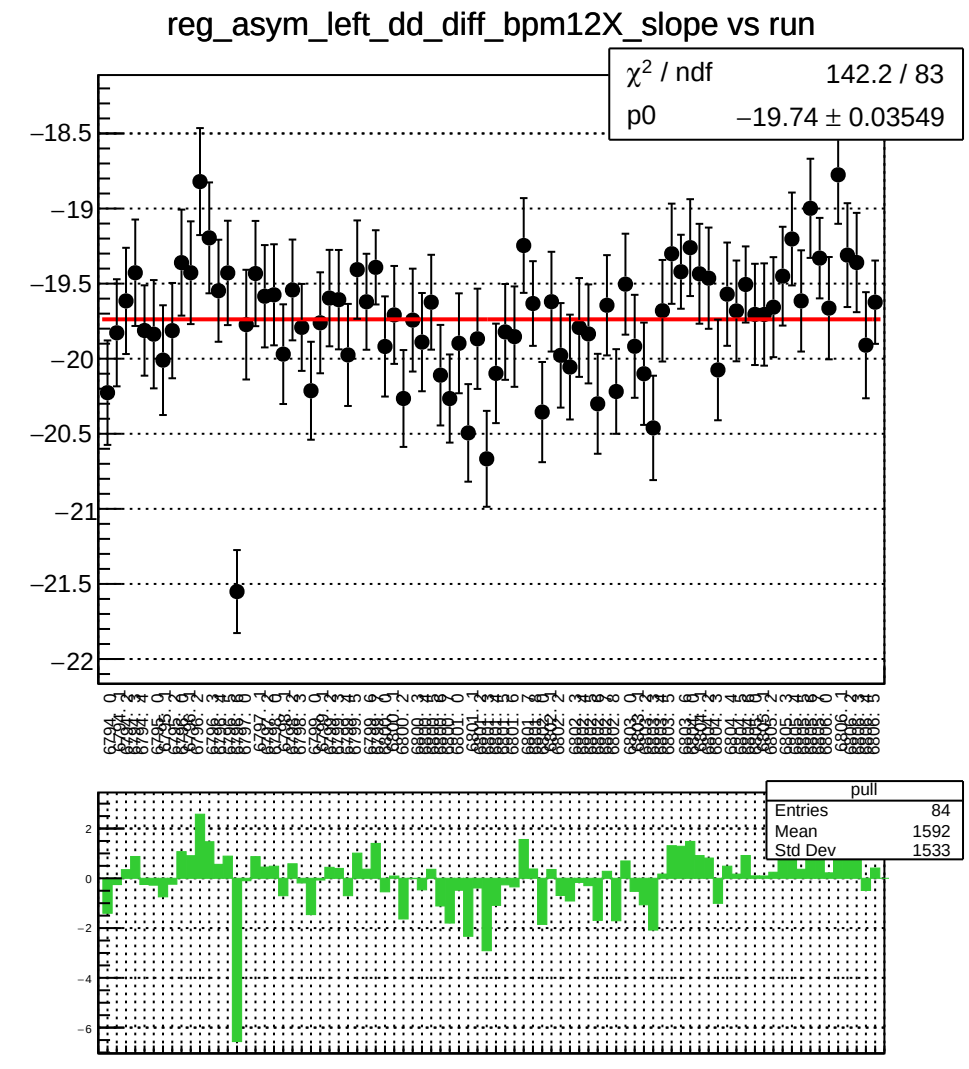

pull1D
Entries 84
Mean 0.01547
Std Dev 0.7949

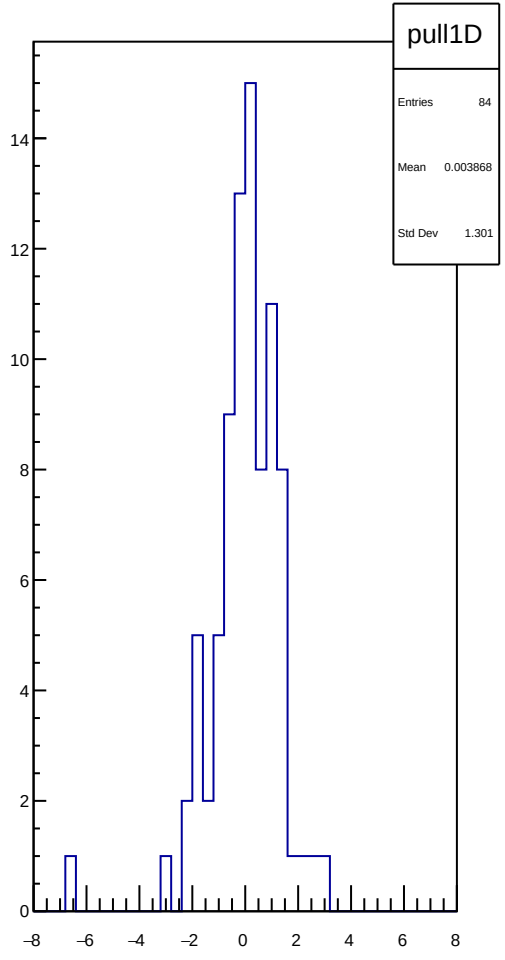

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.47 / 83
p0 7.065 ± 0.8277
pull
Entries 84
Mean 291.4
Std Dev 258.3

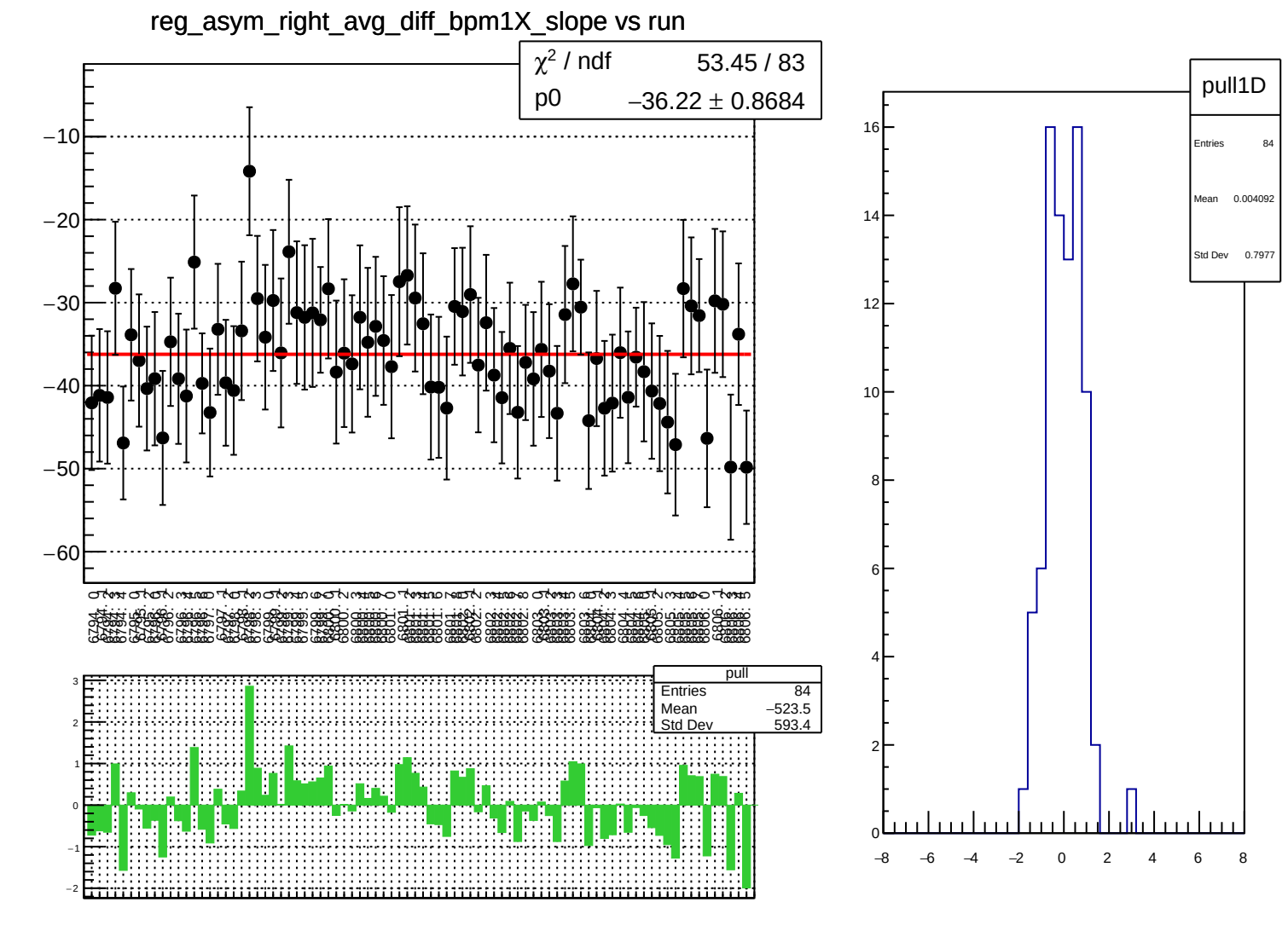

pull1D
Entries 84
Mean −0.006368
Std Dev 0.7026

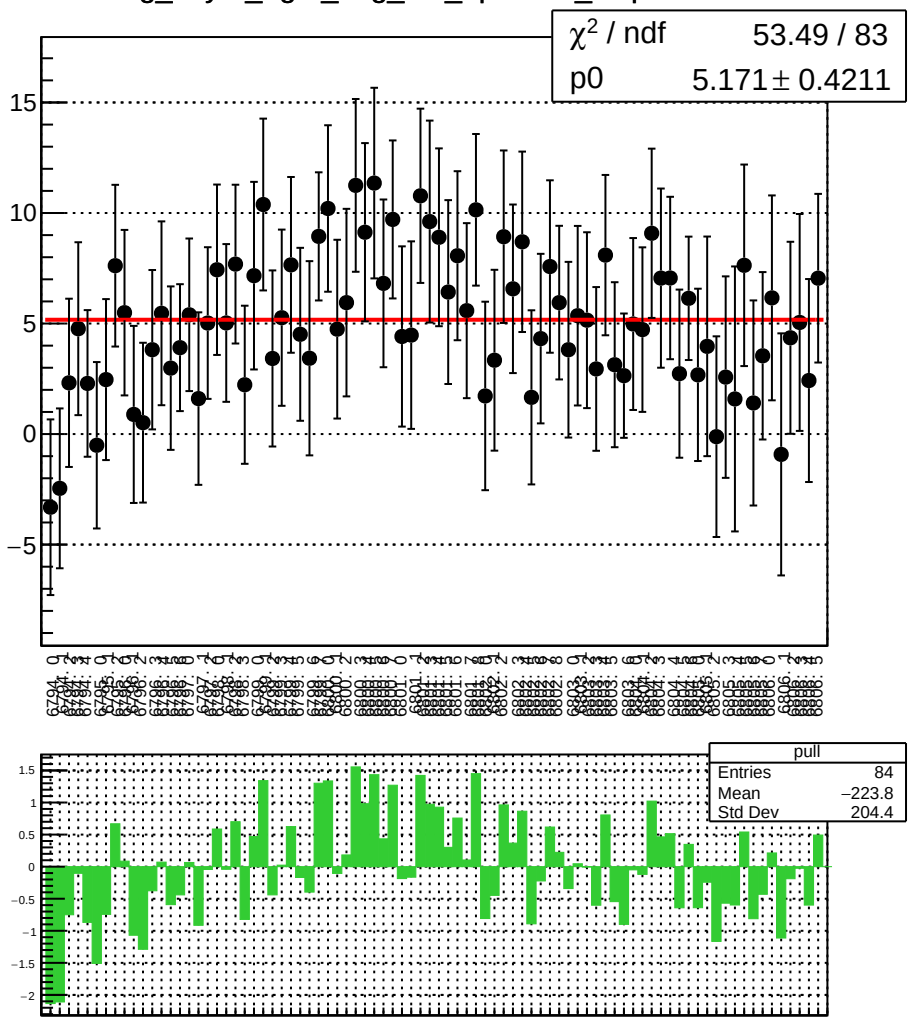

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.51 / 83
p0 3.922 ± 0.5992
pull
Entries 84
Mean 187.2
Std Dev 169.3

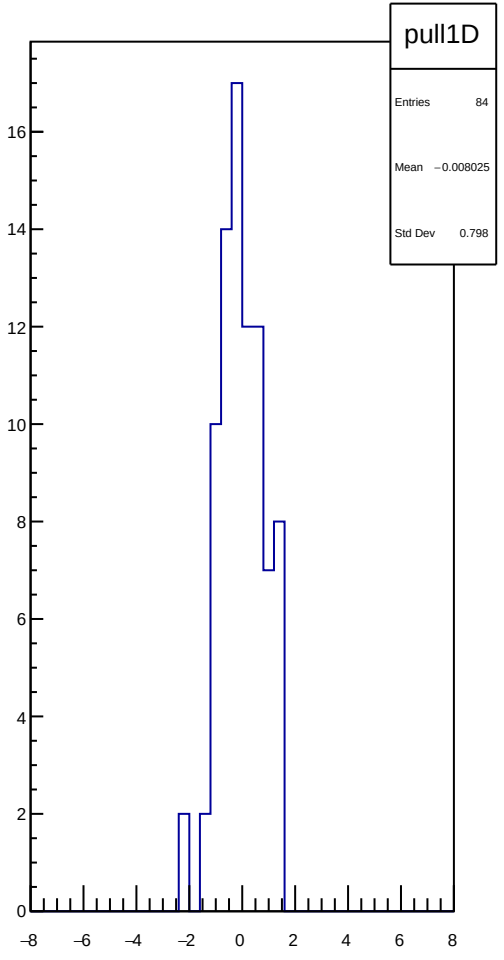

pull1D
Entries 84
Mean −0.02749
Std Dev 0.8125

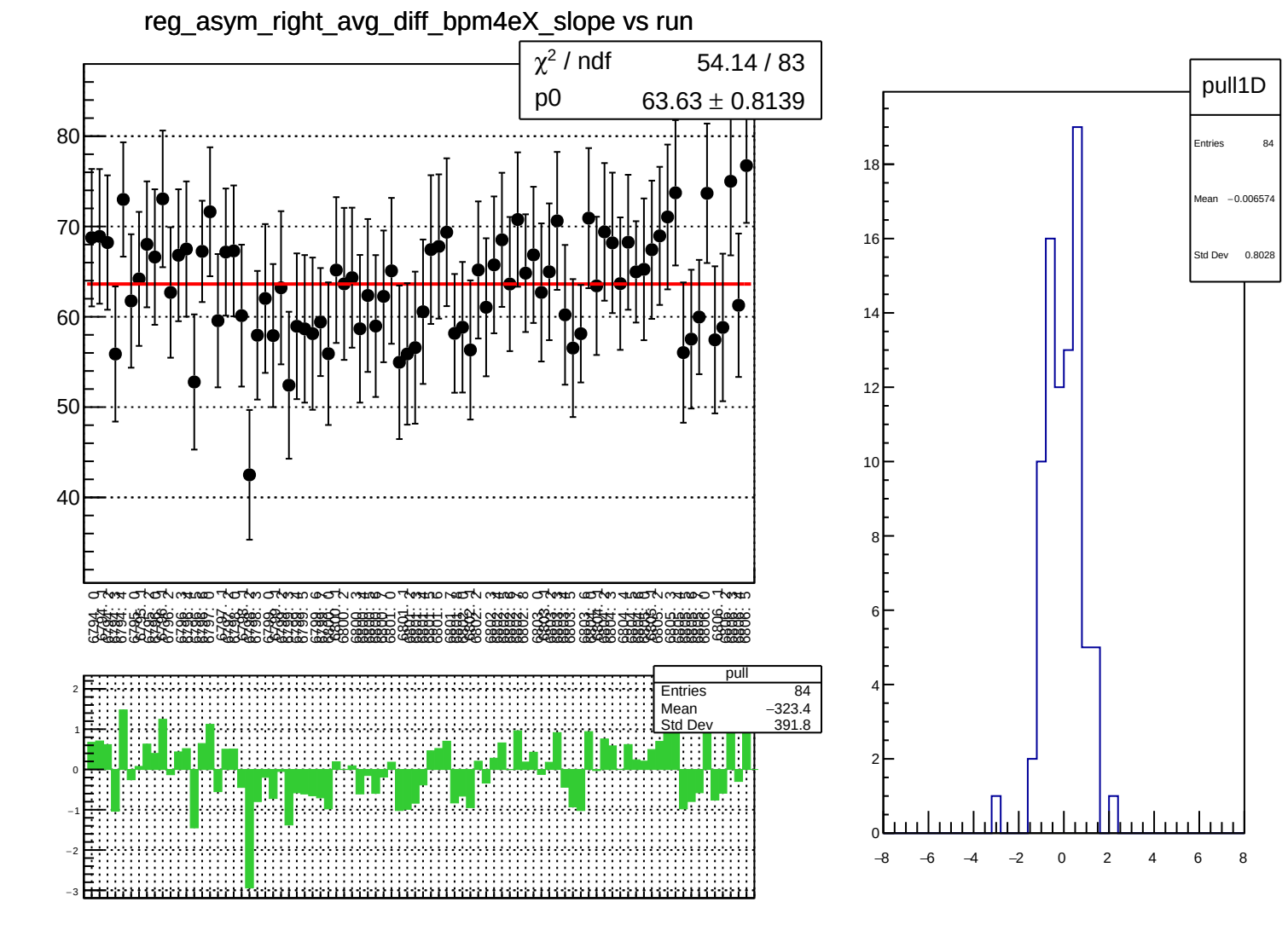

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 142.2 / 83
p0 −19.74 ± 0.03549
−18.5
−19
−19.5
−20
−20.5
−21
−21.5
−22
pull
Entries 84
Mean 1592
Std Dev 1533
2
0
−2
−4
−6

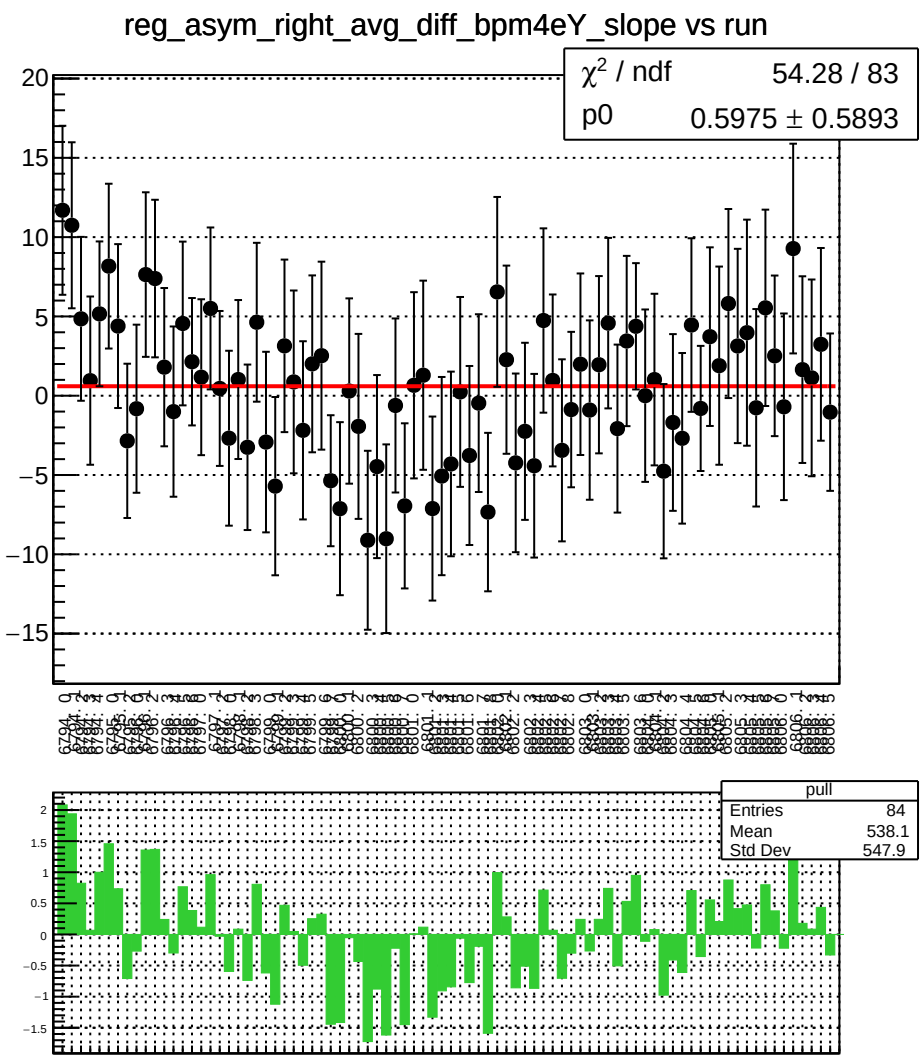

pull1D
Entries 84
Mean 0.003868
Std Dev 1.301
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

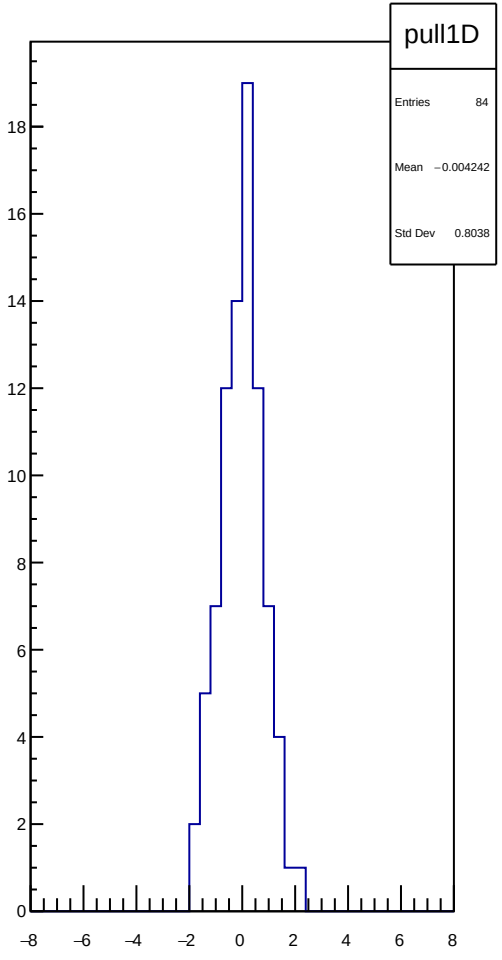

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 53.45 / 83
p0 −36.22 ± 0.8684
pull
Entries 84
Mean −523.5
Std Dev 593.4
pull1D
Entries 84
Mean 0.004092
Std Dev 0.7977

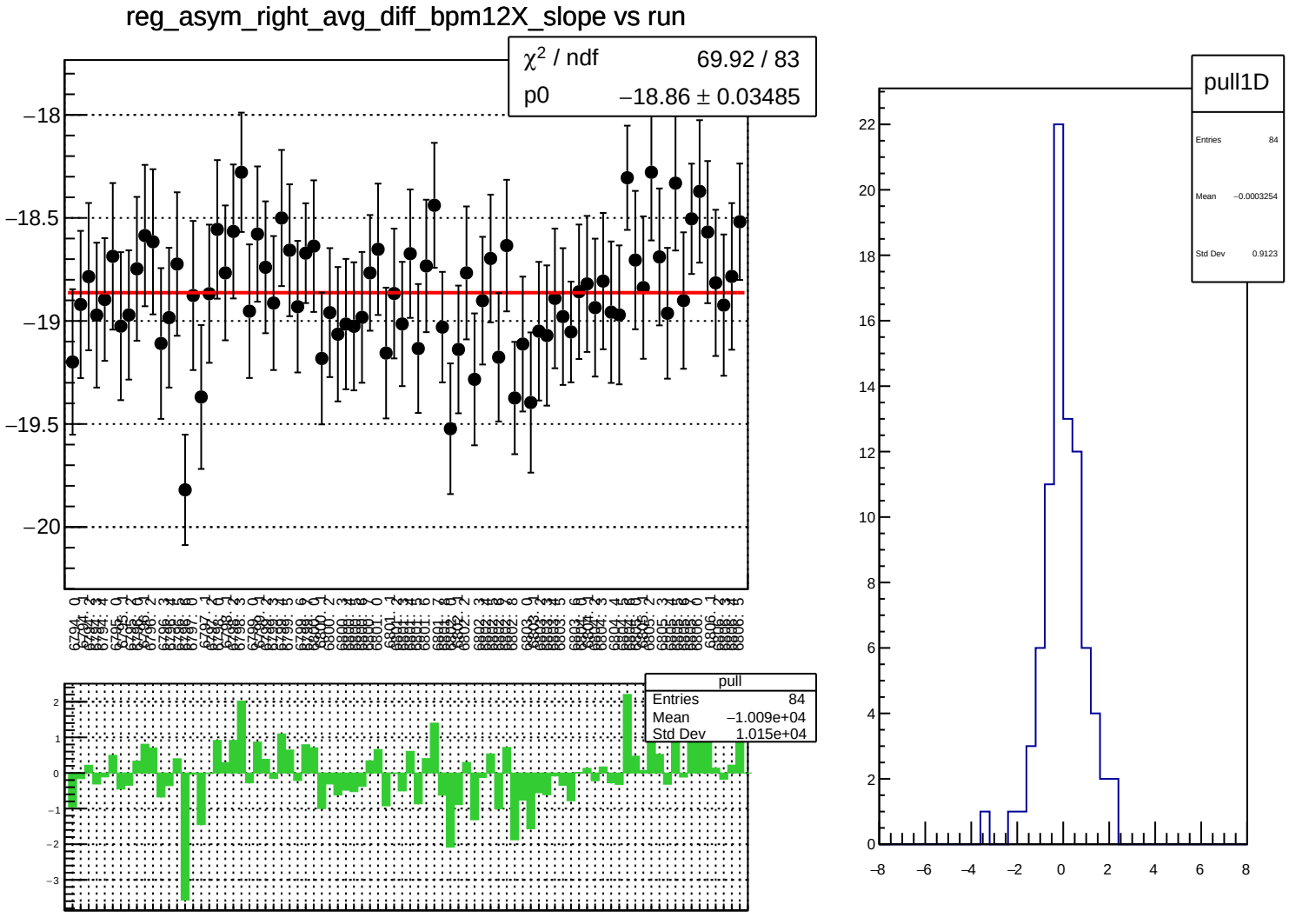

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 53.49 / 83
p0 5.171 ± 0.4211
pull
Entries 84
Mean −223.8
Std Dev 204.4

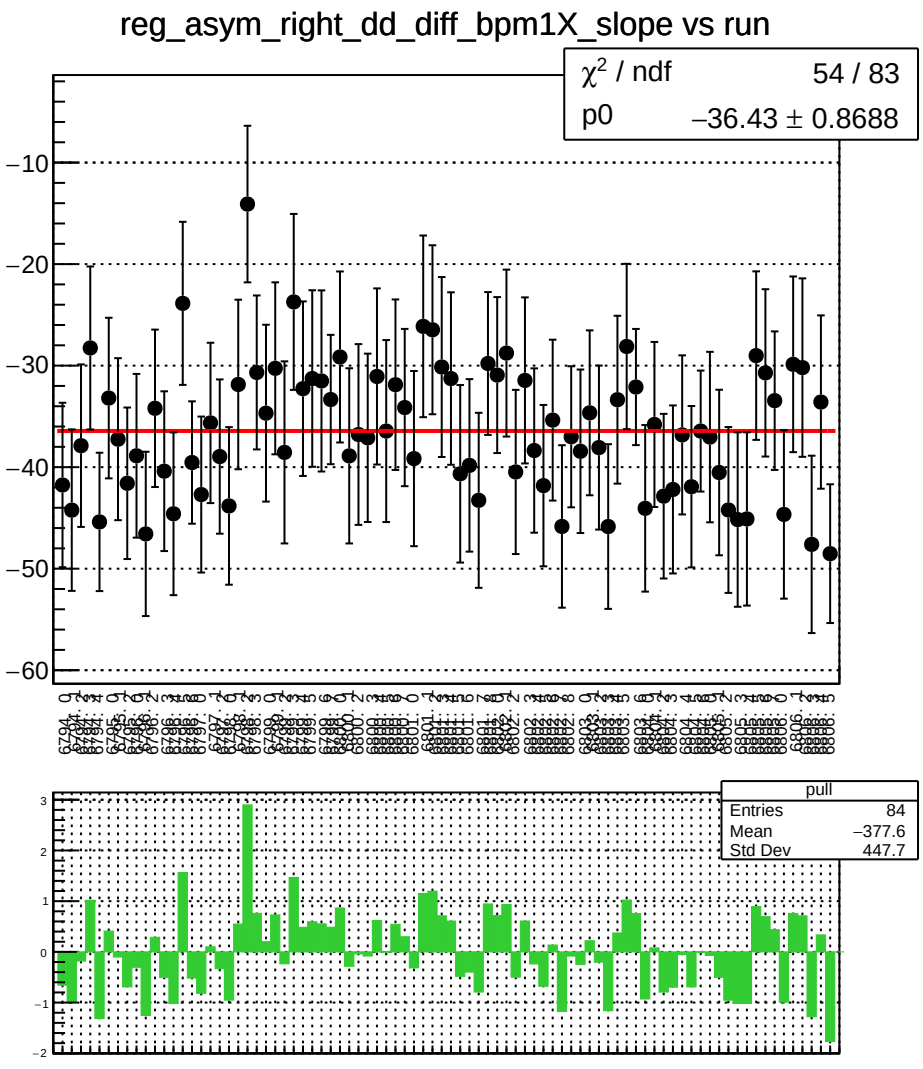

pull1D
Entries 84
Mean −0.008025
Std Dev 0.798

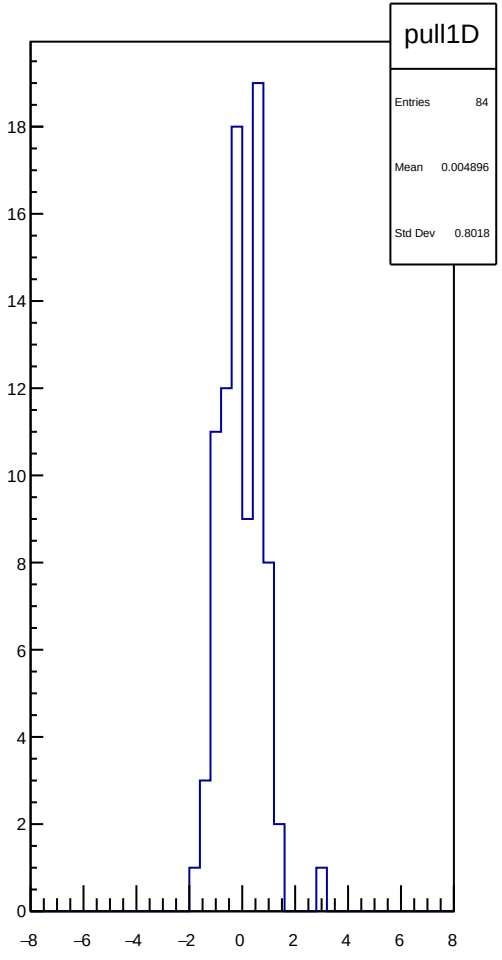

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.14 / 83
p0 63.63 ± 0.8139
pull
Entries 84
Mean −323.4
Std Dev 391.8
pull1D
Entries 84
Mean −0.006574
Std Dev 0.8028

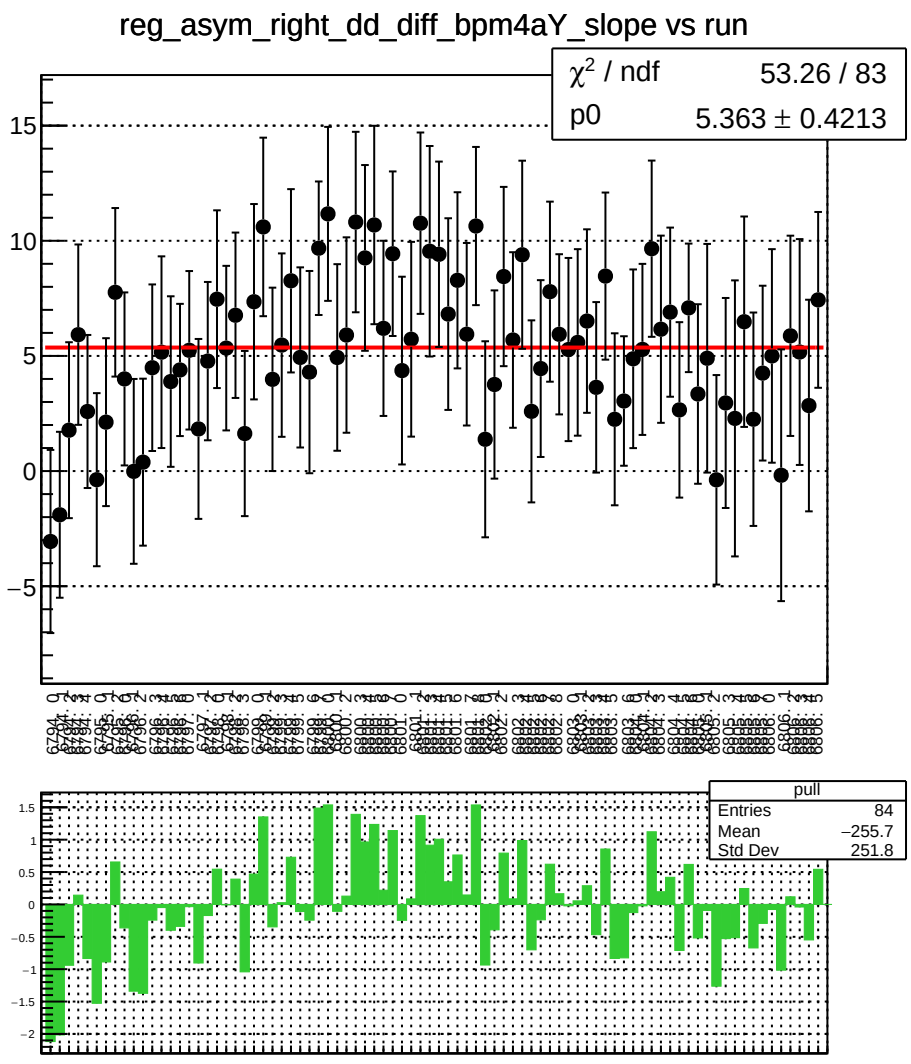

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 54.28 / 83
p0 0.5975 ± 0.5893
pull
Entries 84
Mean 538.1
Std Dev 547.9

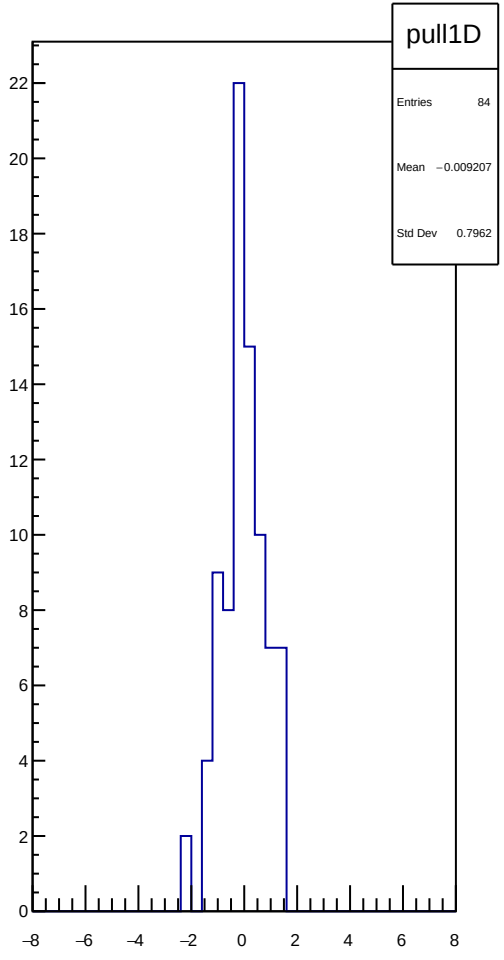

pull1D
Entries 84
Mean −0.004242
Std Dev 0.8038

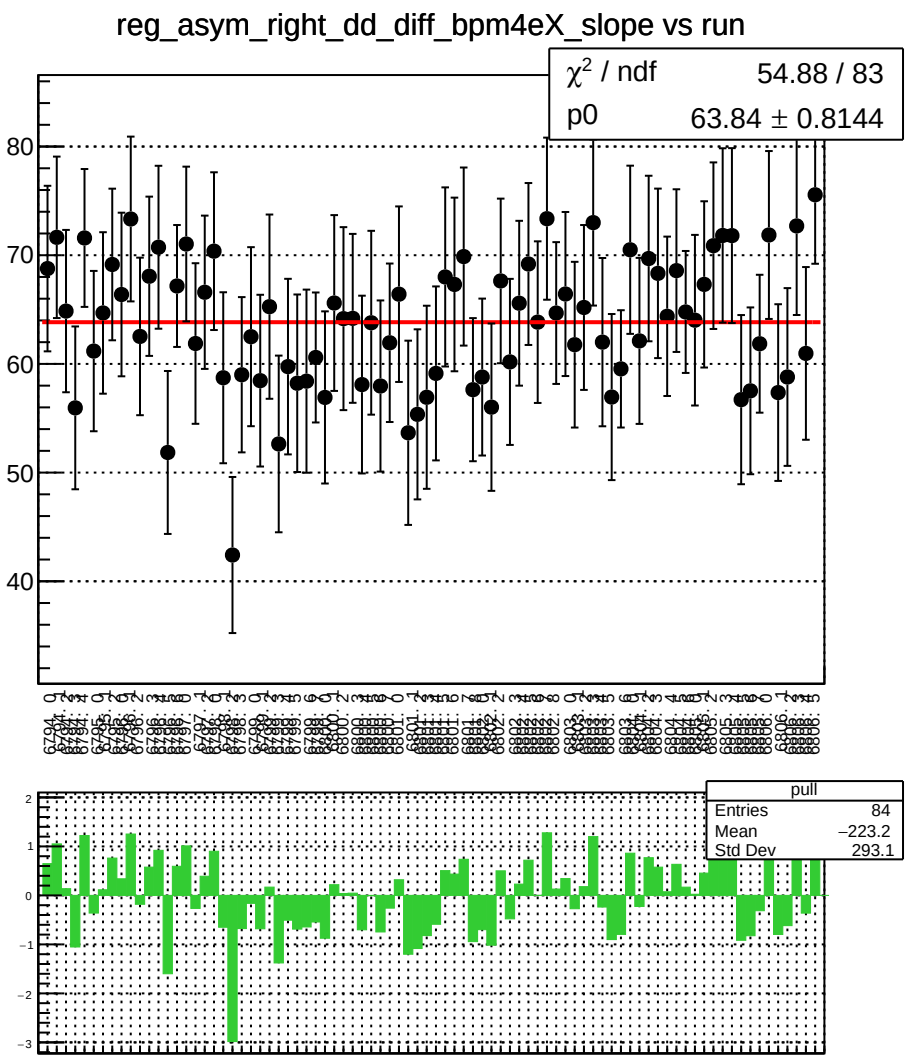

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 69.92 / 83
p0 −18.86 ± 0.03485
−18
−18.5
−19
−19.5
−20
pull
Entries 84
Mean −1.009e+04
Std Dev 1.015e+04
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.0003254
Std Dev 0.9123
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

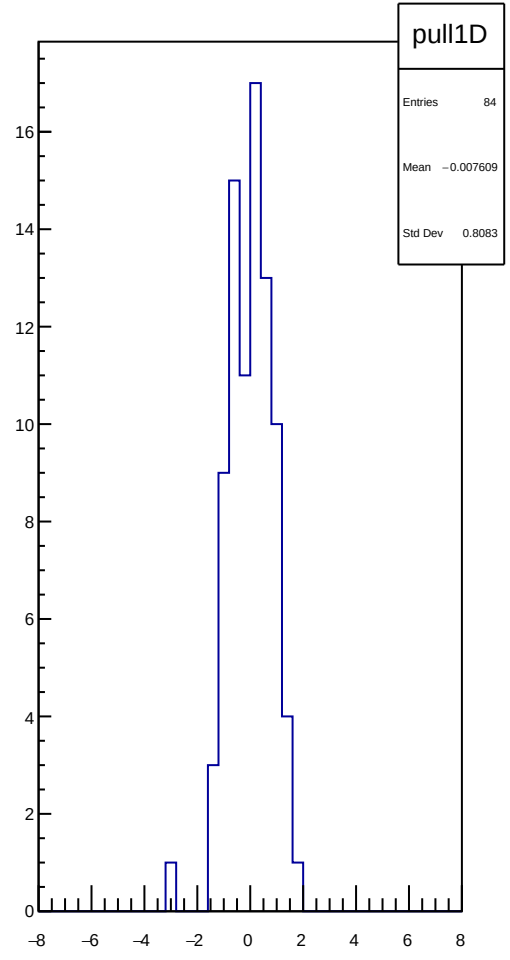

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 54 / 83
p0 −36.43 ± 0.8688
pull
Entries 84
Mean −377.6
Std Dev 447.7

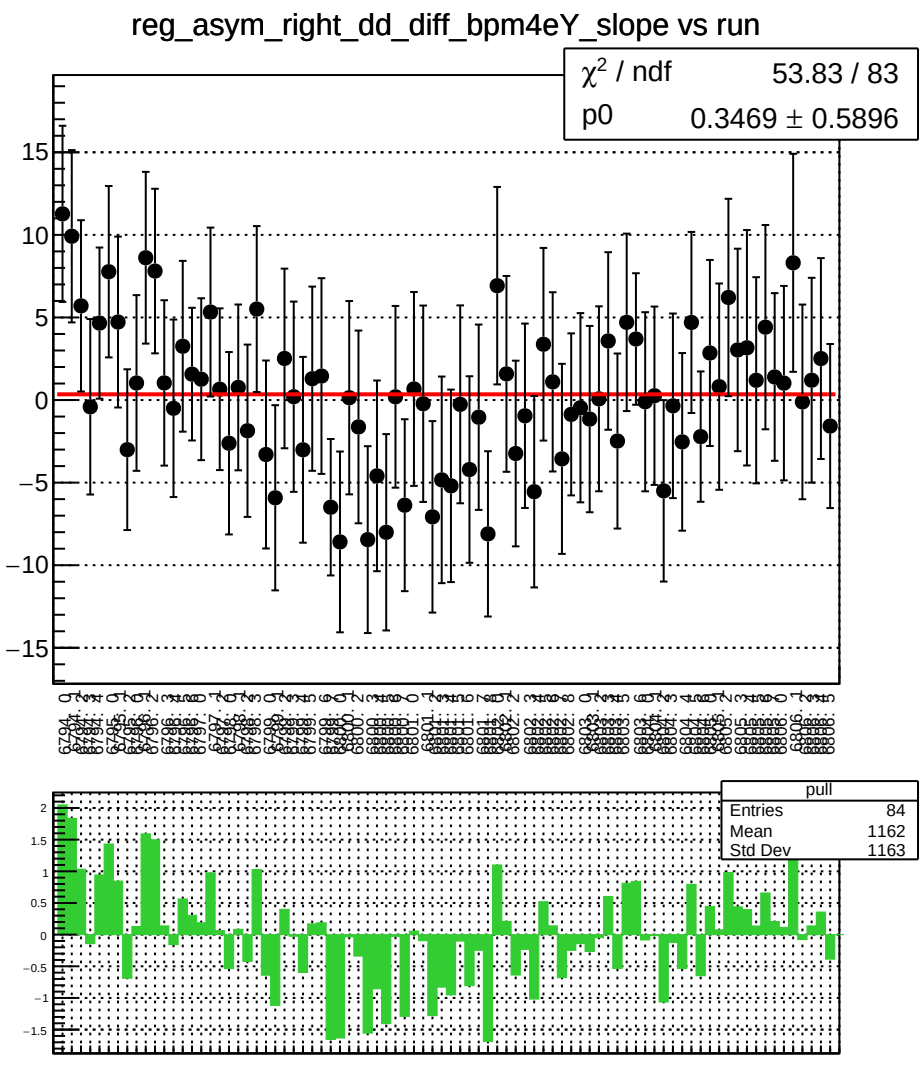

pull1D
Entries 84
Mean 0.004896
Std Dev 0.8018

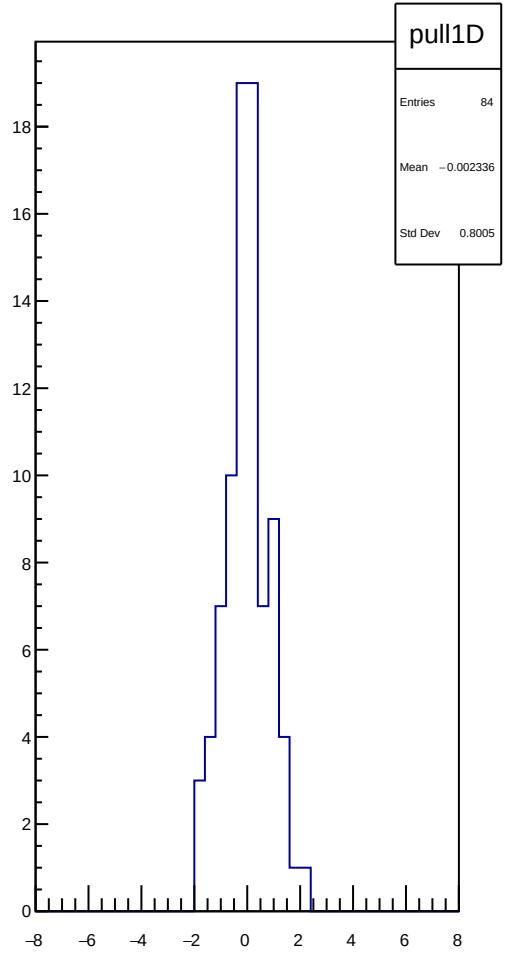

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.26 / 83
p0 5.363 ± 0.4213
pull
Entries 84
Mean −255.7
Std Dev 251.8

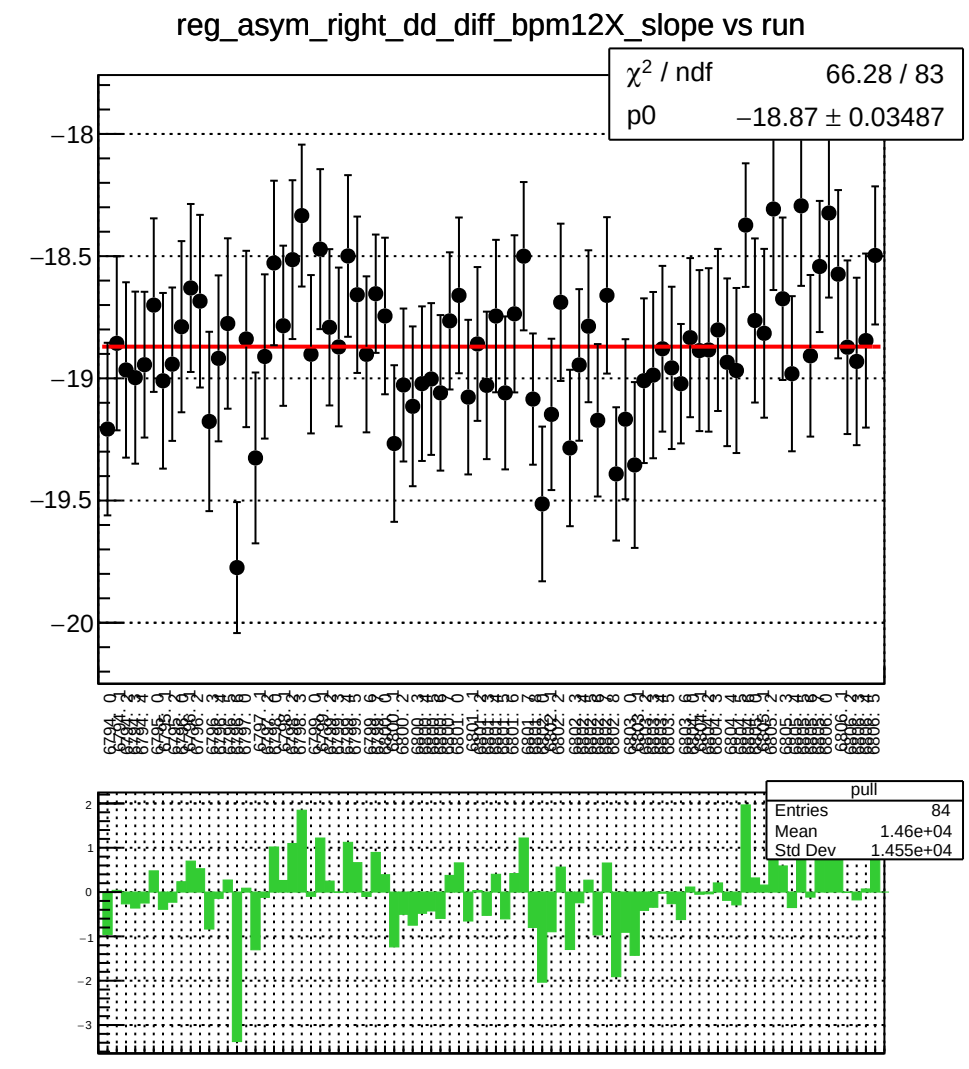

pull1D
Entries 84
Mean −0.009207
Std Dev 0.7962

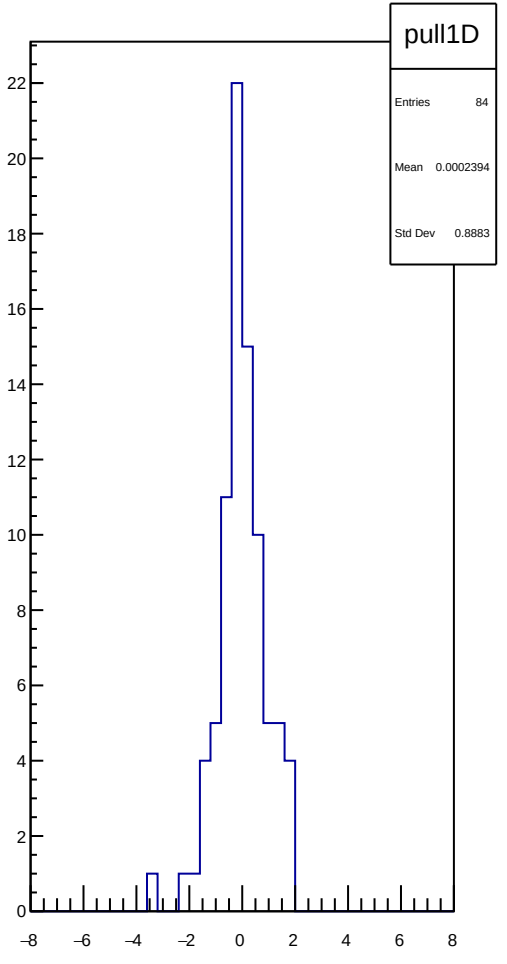

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.88 / 83
p0 63.84 ± 0.8144
pull
Entries 84
Mean −223.2
Std Dev 293.1

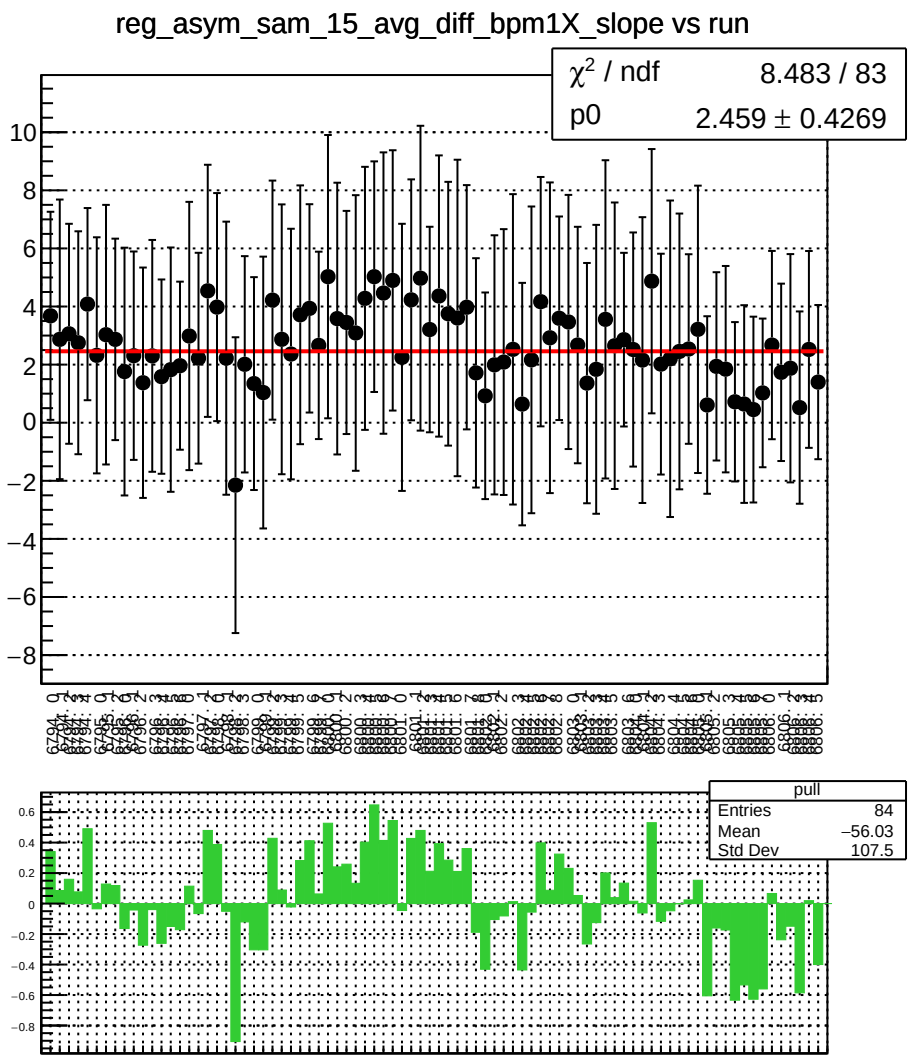

pull1D
Entries 84
Mean −0.007609
Std Dev 0.8083

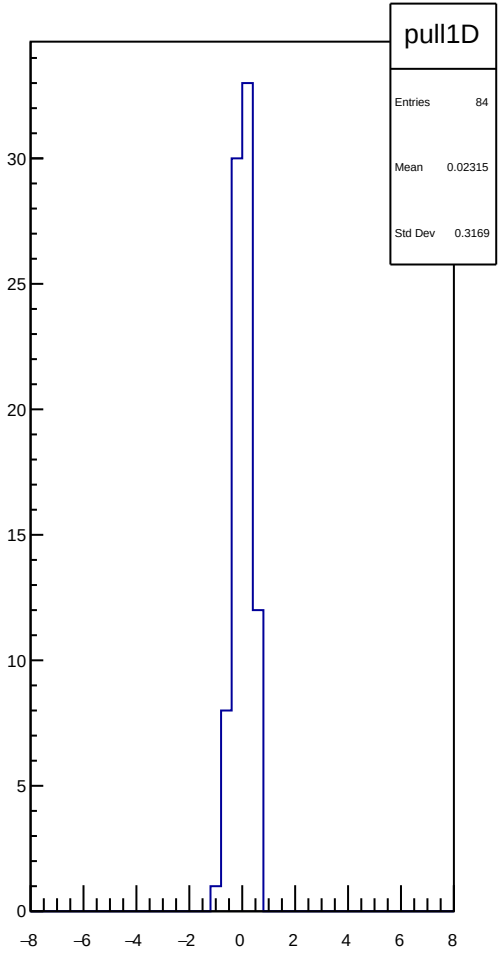

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 53.83 / 83
p0 0.3469 ± 0.5896
pull
Entries 84
Mean 1162
Std Dev 1163

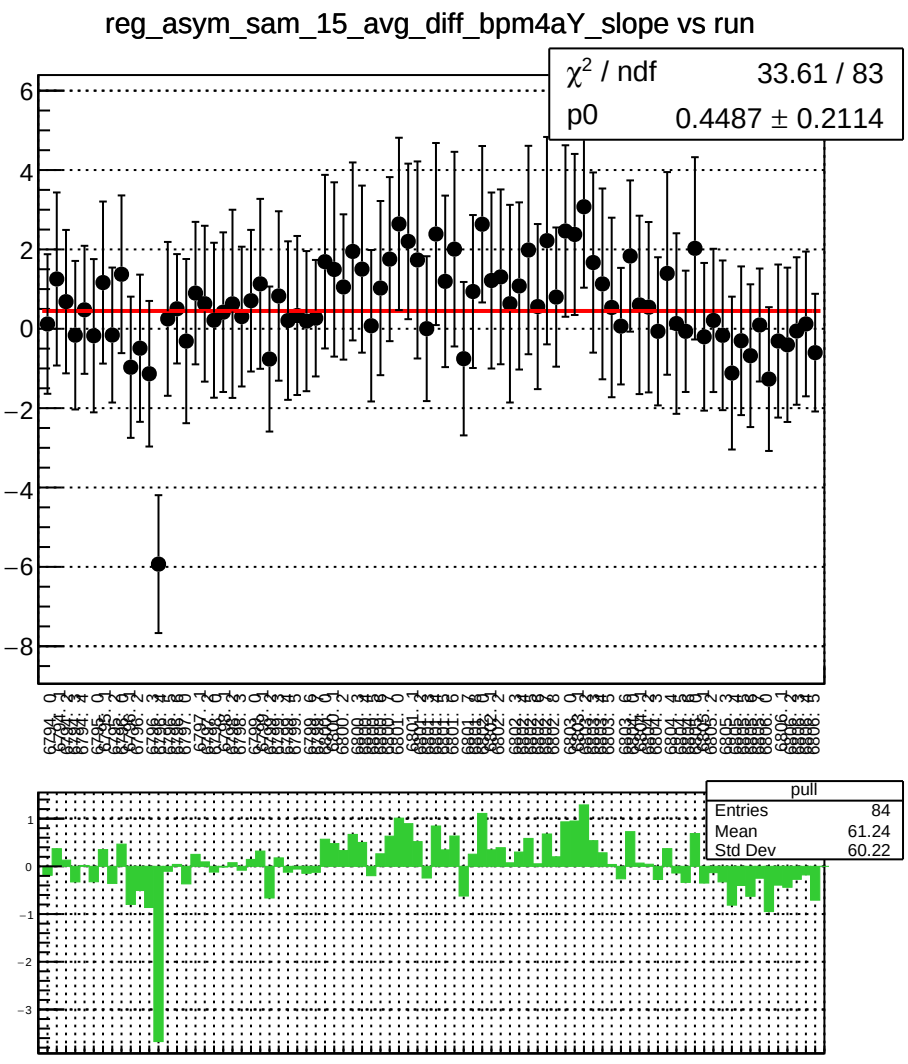

pull1D
Entries 84
Mean −0.002336
Std Dev 0.8005

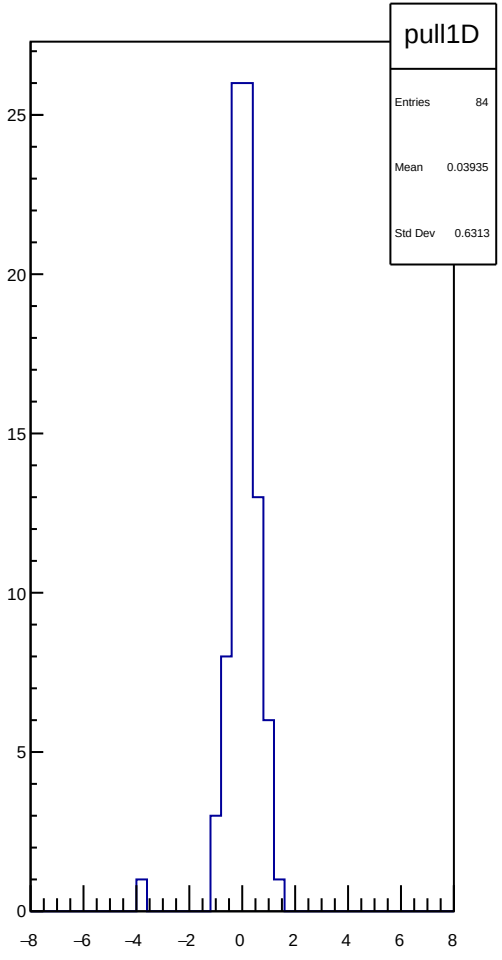

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 66.28 / 83
p0 −18.87 ± 0.03487
−18
−18.5
−19
−19.5
−20
pull
Entries 84
Mean 1.46e+04
Std Dev 1.455e+04

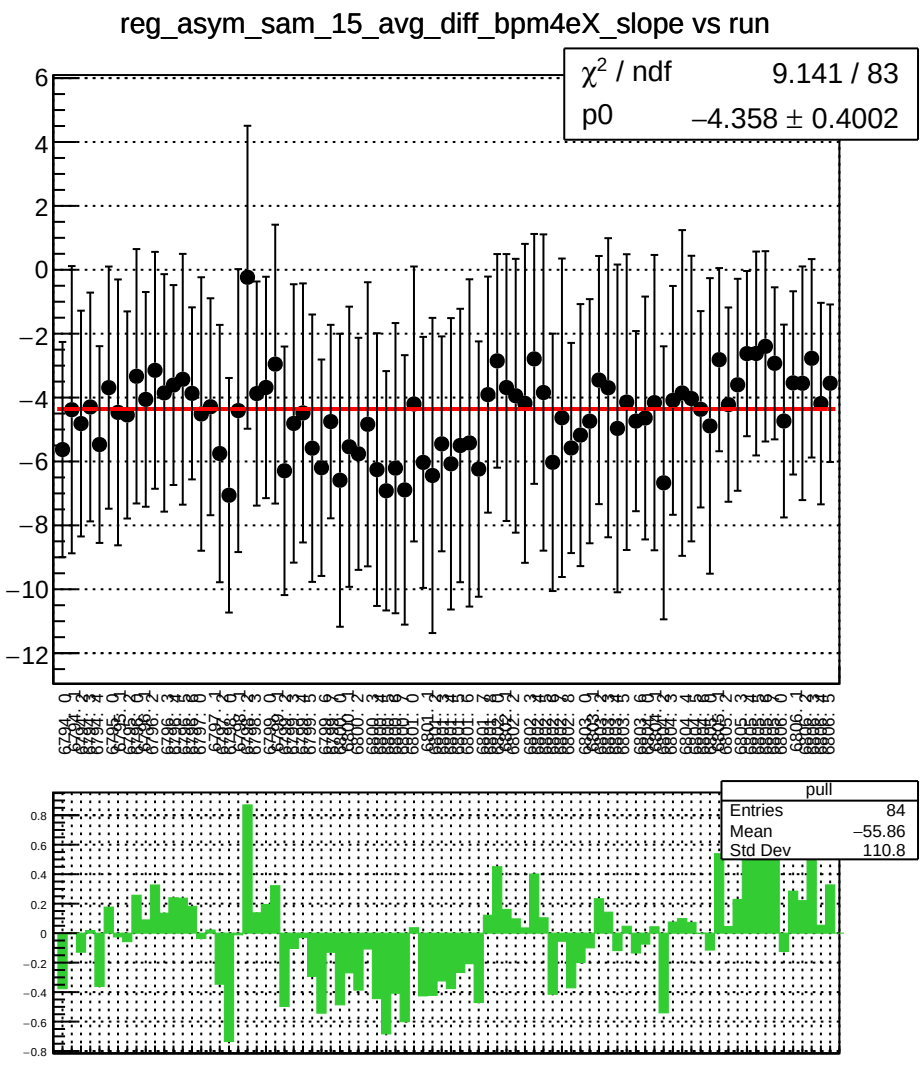

pull1D
Entries 84
Mean 0.0002394
Std Dev 0.8883

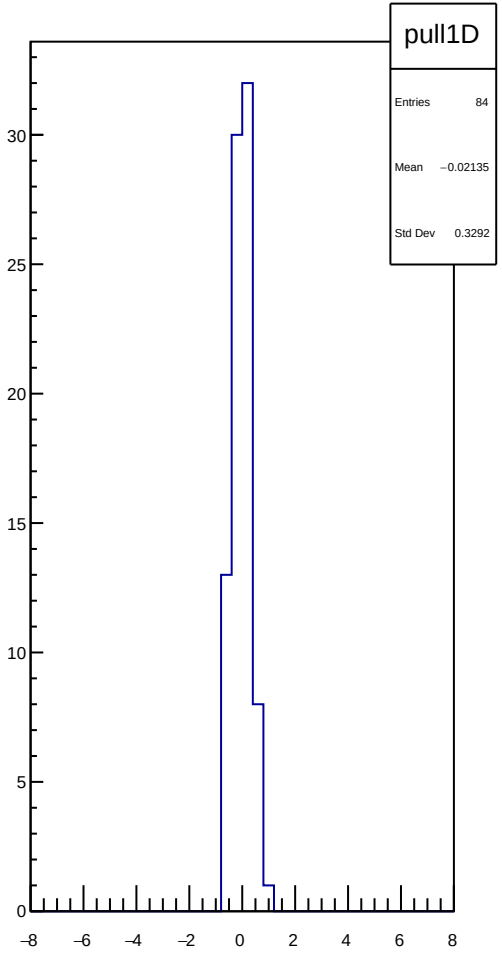

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 8.483 / 83
p0 2.459 ± 0.4269
pull
Entries 84
Mean −56.03
Std Dev 107.5

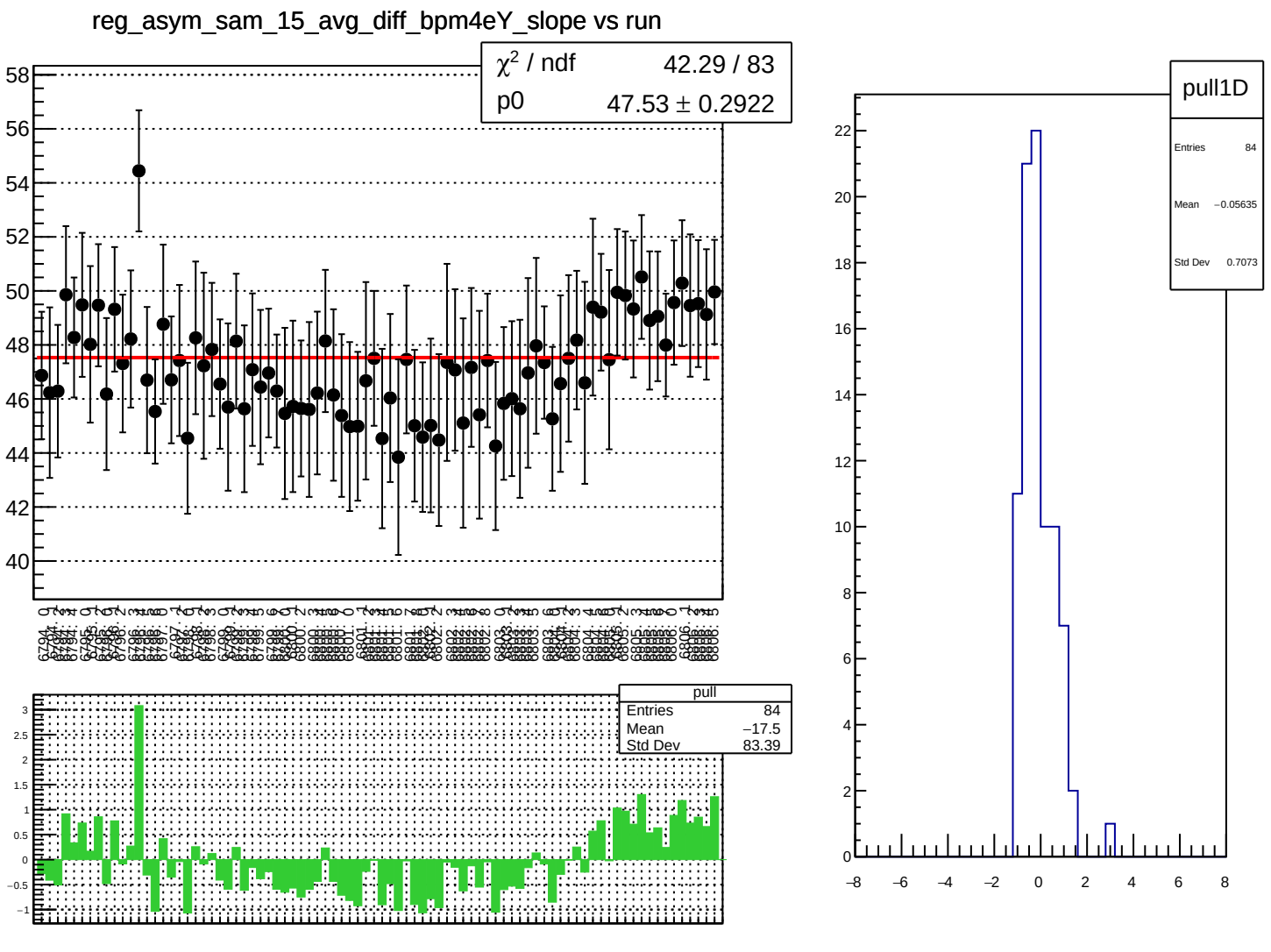

pull1D
Entries 84
Mean 0.02315
Std Dev 0.3169

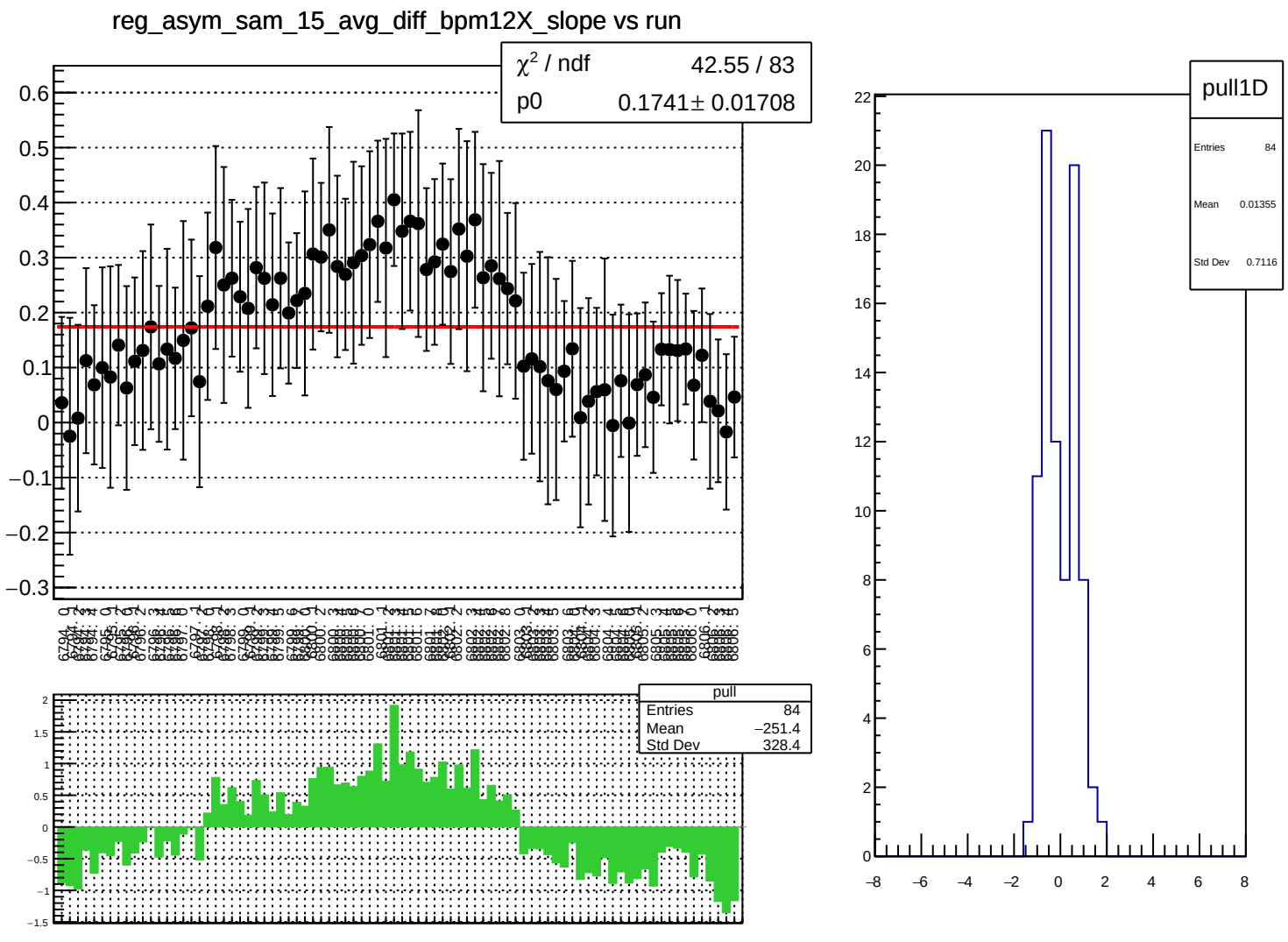

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.61 / 83
p0 0.4487 ± 0.2114
pull
Entries 84
Mean 61.24
Std Dev 60.22

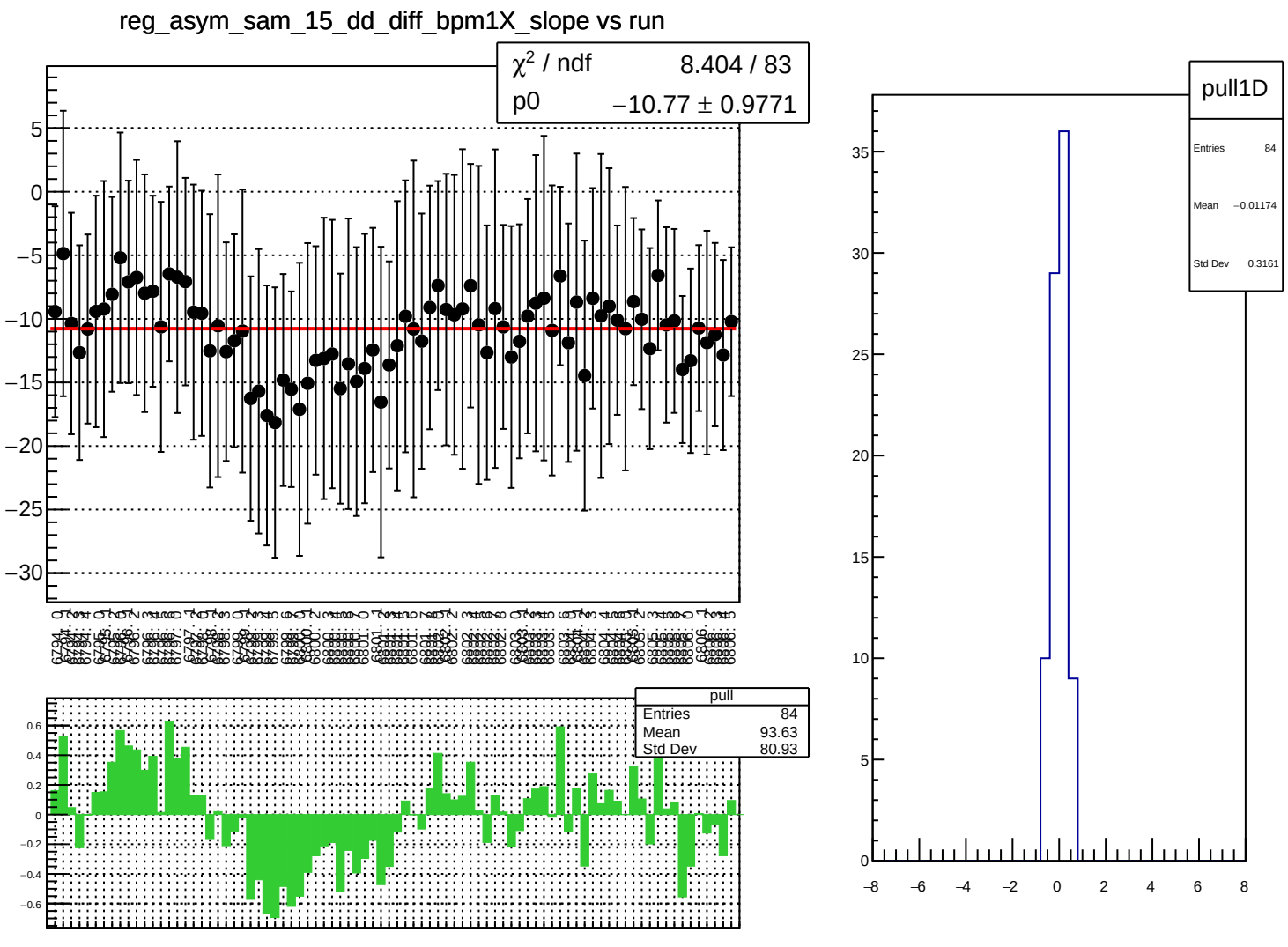

pull1D
Entries 84
Mean 0.03935
Std Dev 0.6313

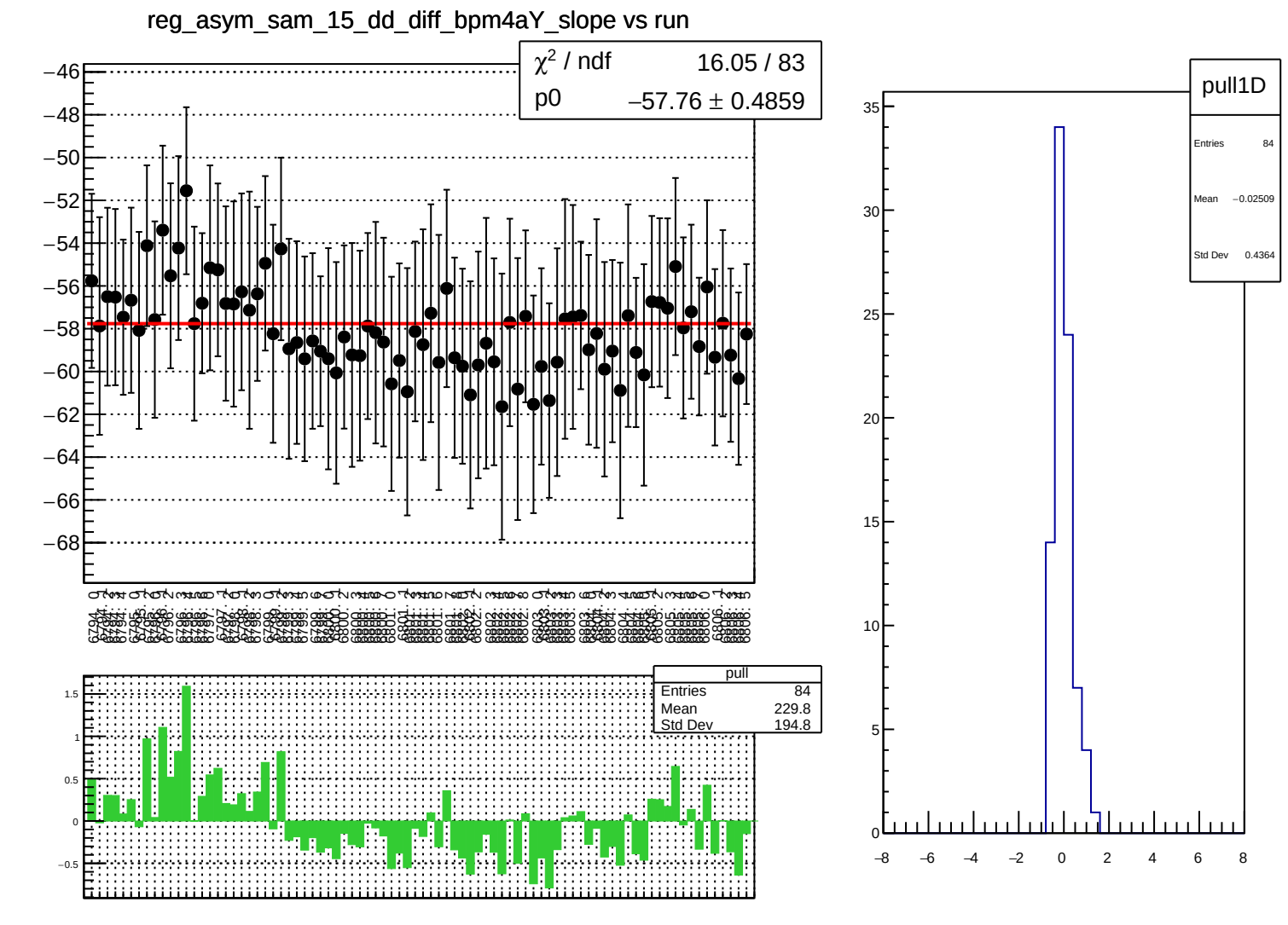

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.141 / 83
p0 −4.358 ± 0.4002
pull
Entries 84
Mean −55.86
Std Dev 110.8

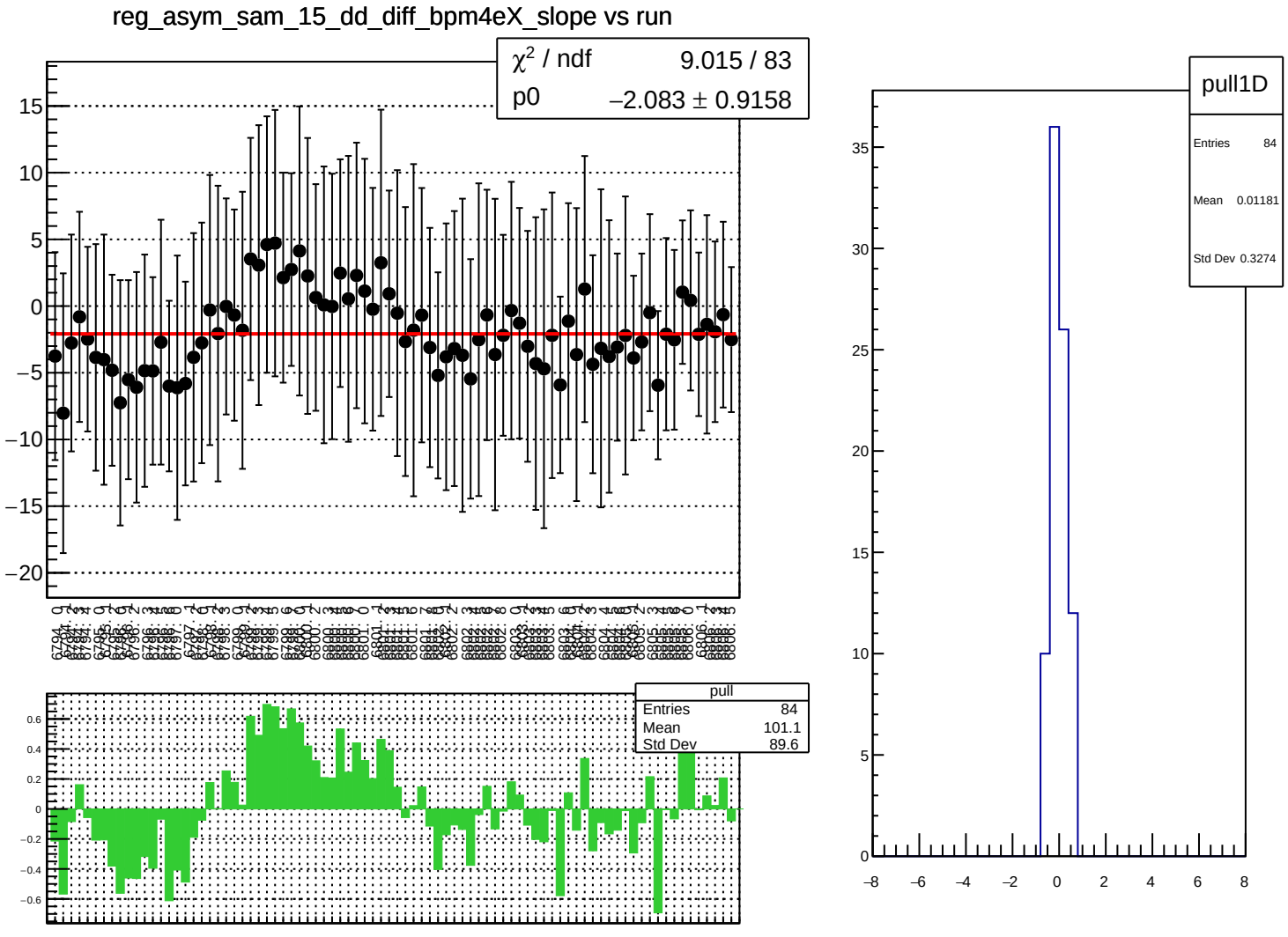

pull1D
Entries 84
Mean −0.02135
Std Dev 0.3292

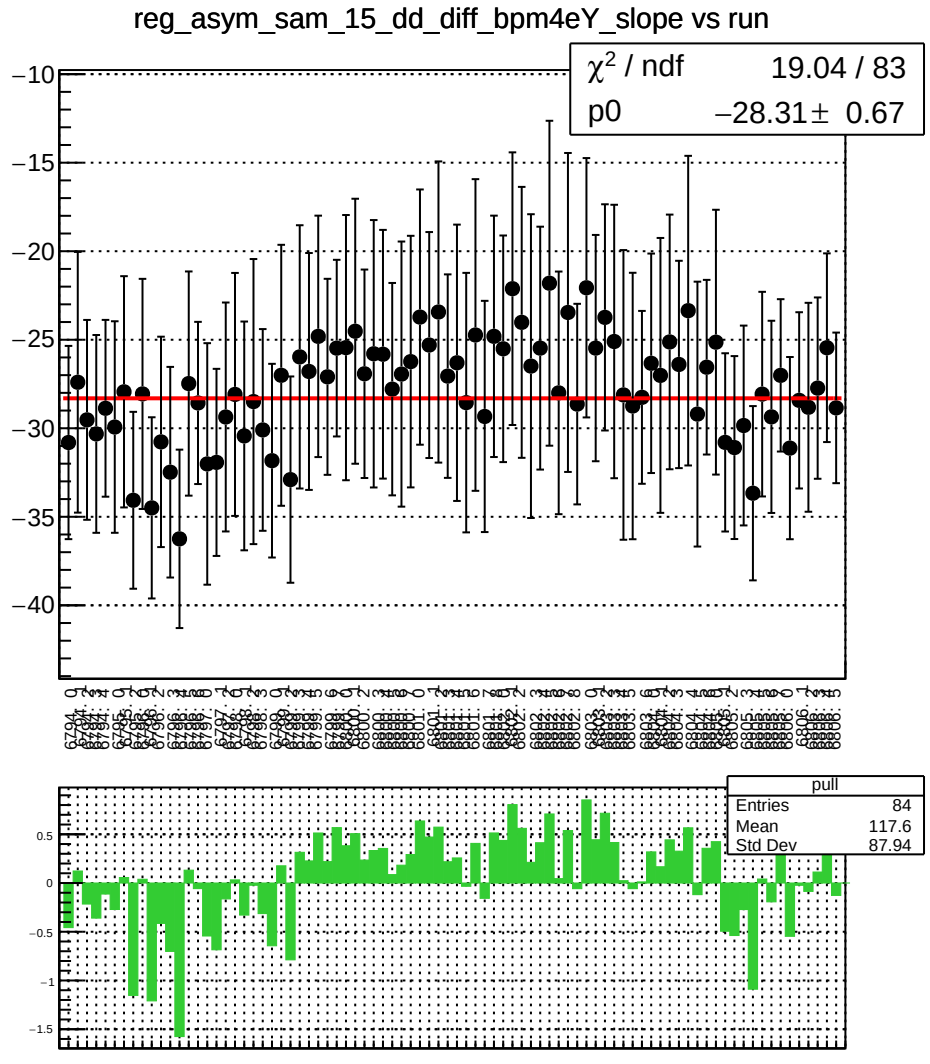

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.29 / 83
p0 47.53 ± 0.2922
pull
Entries 84
Mean −17.5
Std Dev 83.39
pull1D
Entries 84
Mean −0.05635
Std Dev 0.7073

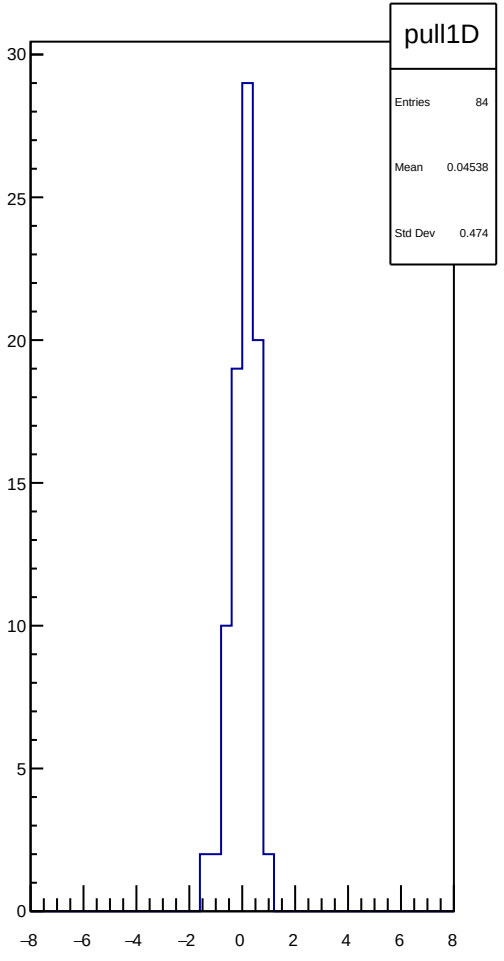

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 42.55 / 83
p0 0.1741± 0.01708
pull
Entries 84
Mean −251.4
Std Dev 328.4
pull1D
Entries 84
Mean 0.01355
Std Dev 0.7116

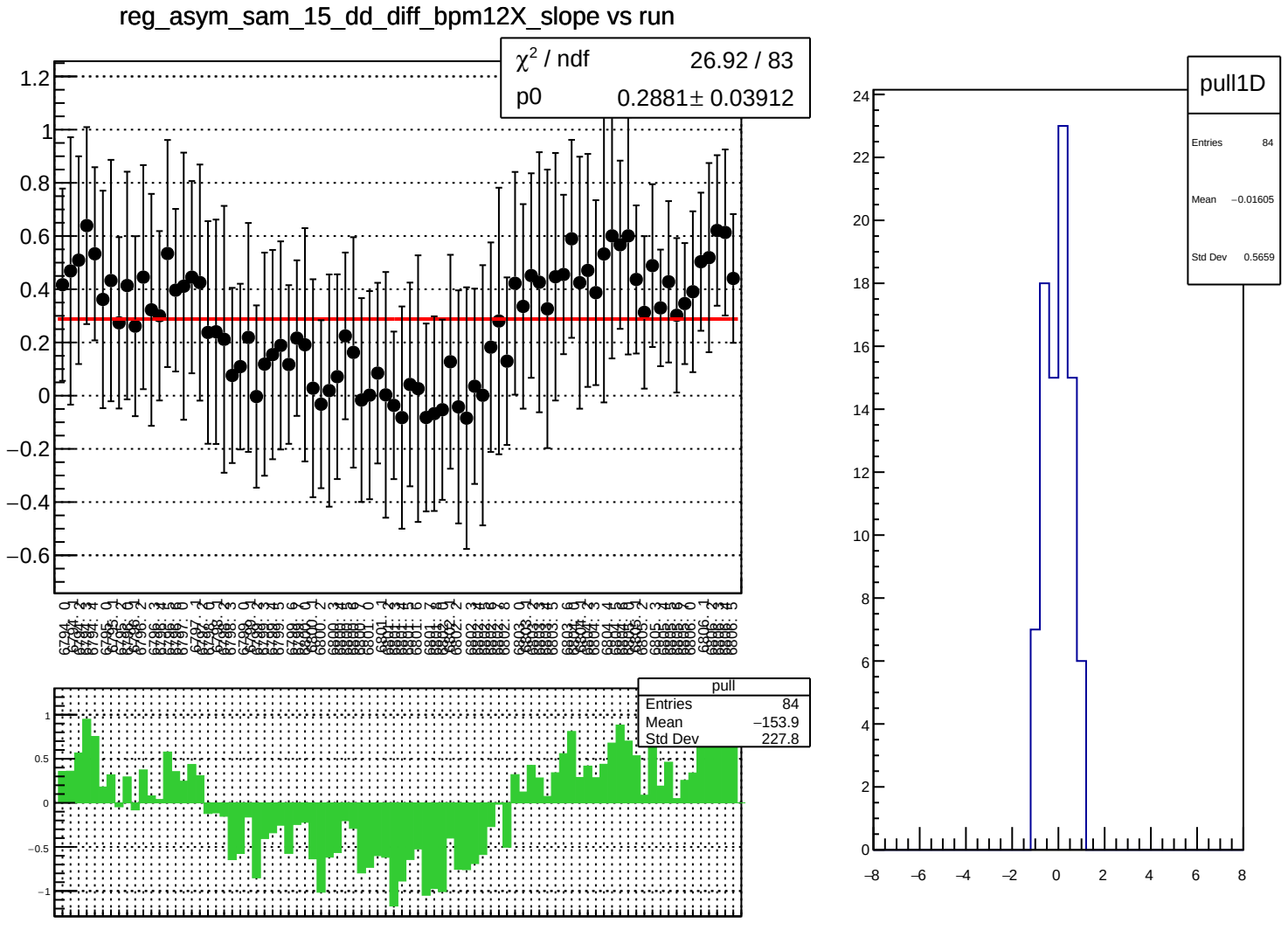

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 8.404 / 83
p0 −10.77 ± 0.9771
pull
Entries 84
Mean 93.63
Std Dev 80.93
pull1D
Entries 84
Mean −0.01174
Std Dev 0.3161

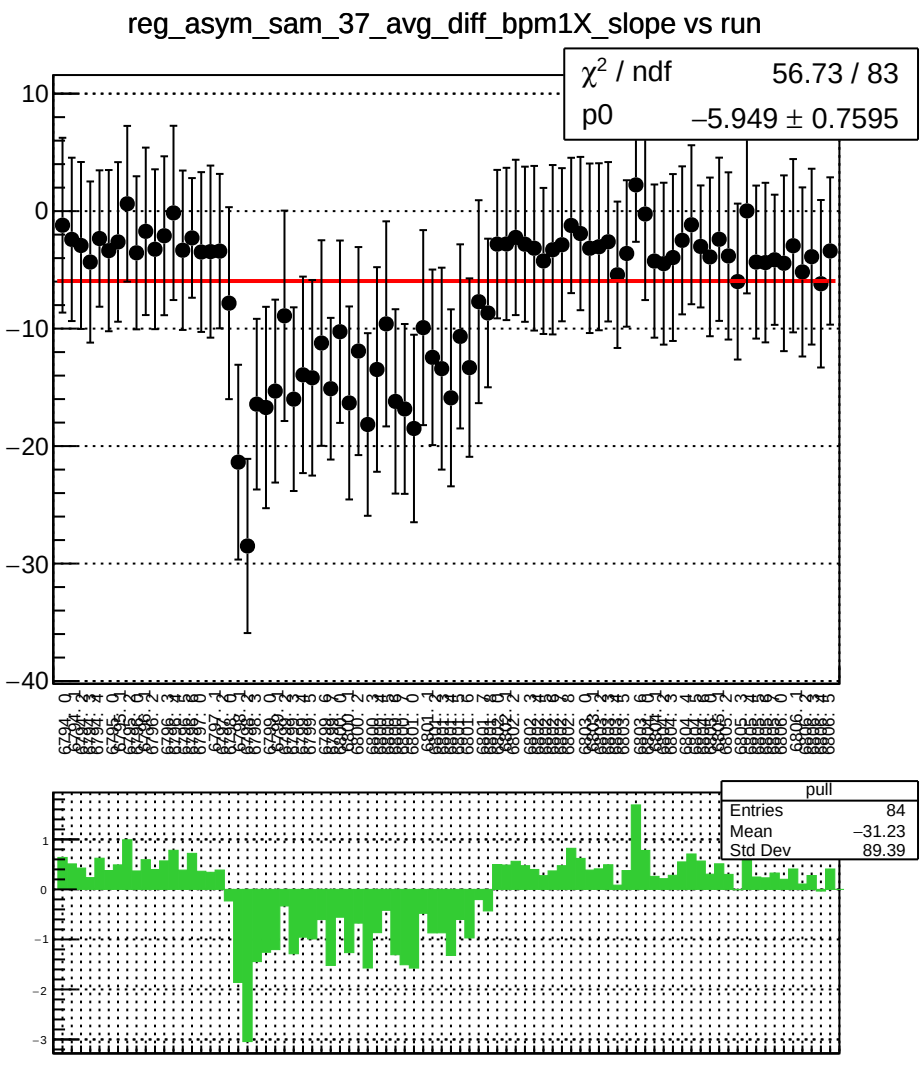

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.05 / 83
p0 −57.76 ± 0.4859
pull
Entries 84
Mean 229.8
Std Dev 194.8
pull1D
Entries 84
Mean −0.02509
Std Dev 0.4364

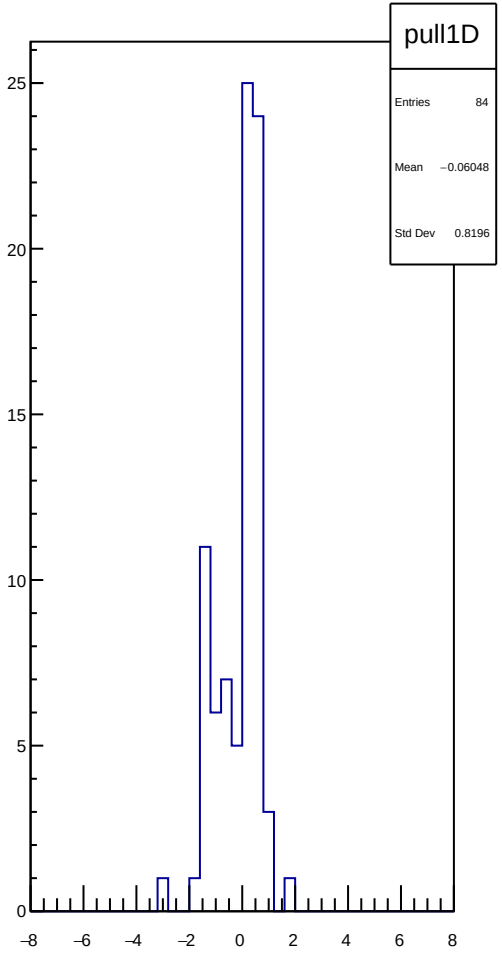

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.015 / 83
p0 −2.083 ± 0.9158
pull
Entries 84
Mean 101.1
Std Dev 89.6
pull1D
Entries 84
Mean 0.01181
Std Dev 0.3274

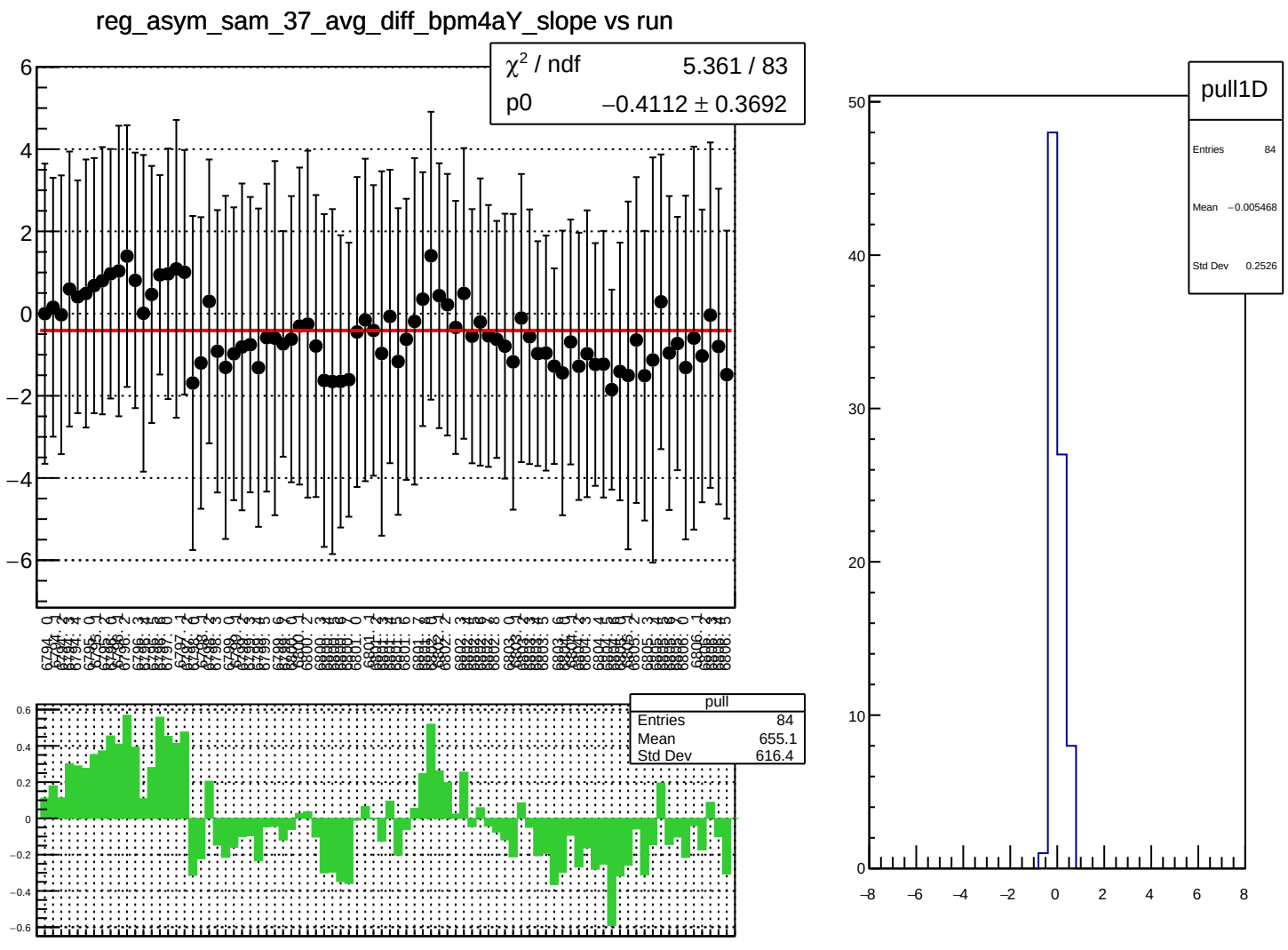

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.04 / 83
p0 −28.31± 0.67
pull
Entries 84
Mean 117.6
Std Dev 87.94

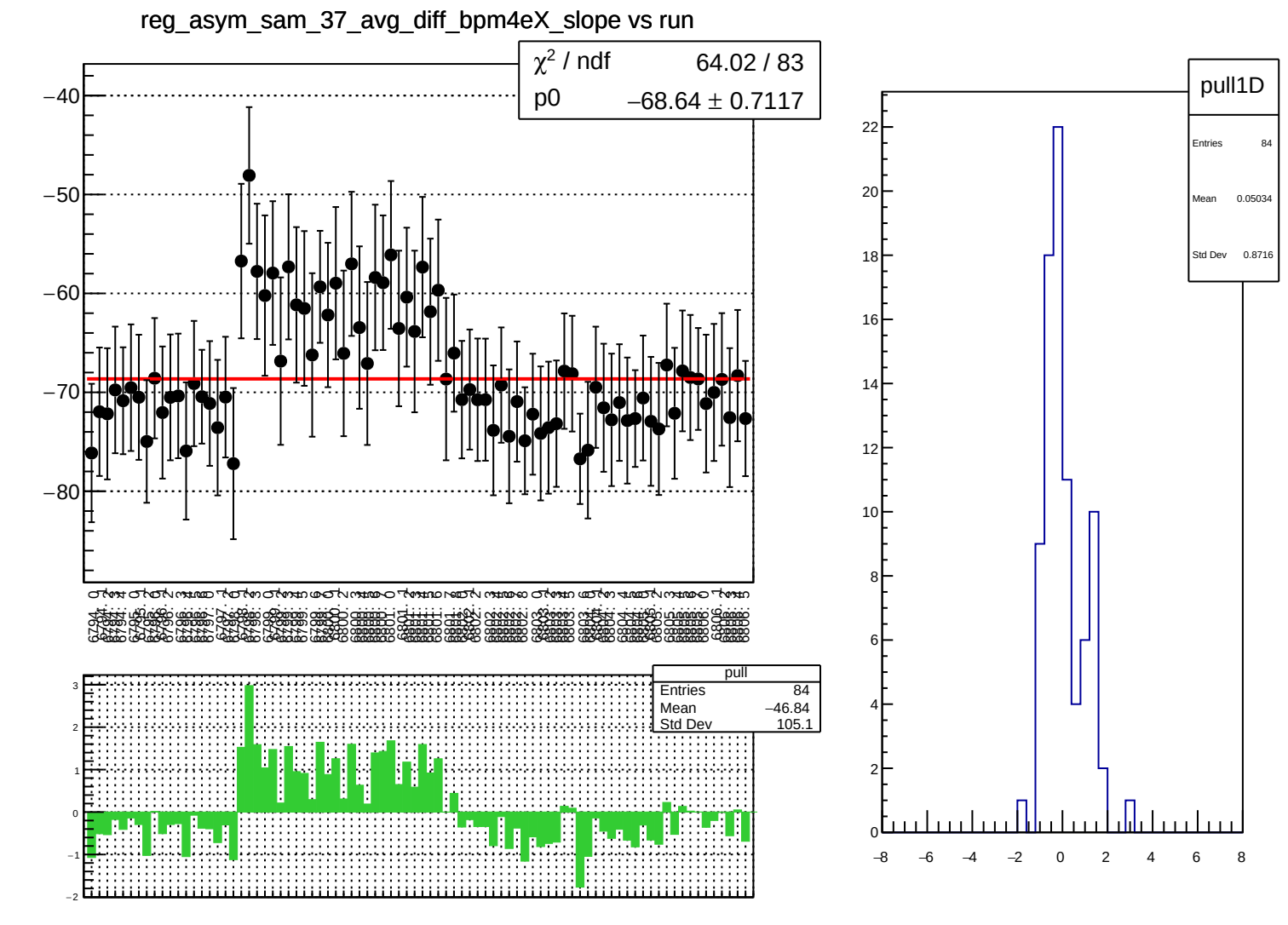

pull1D
Entries 84
Mean 0.04538
Std Dev 0.474

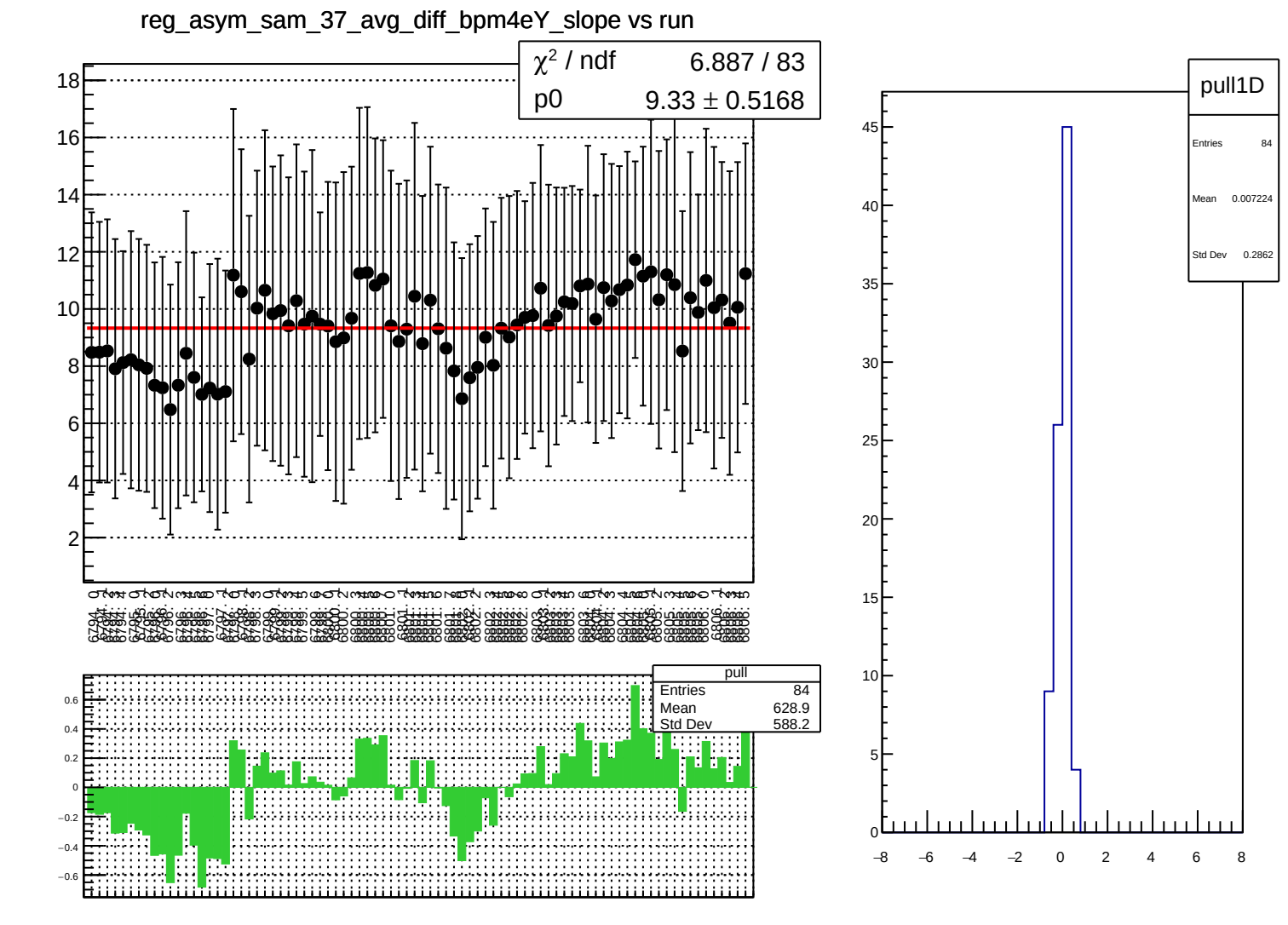

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 26.92 / 83
p0 0.2881± 0.03912
pull
Entries 84
Mean −153.9
Std Dev 227.8
pull1D
Entries 84
Mean −0.01605
Std Dev 0.5659

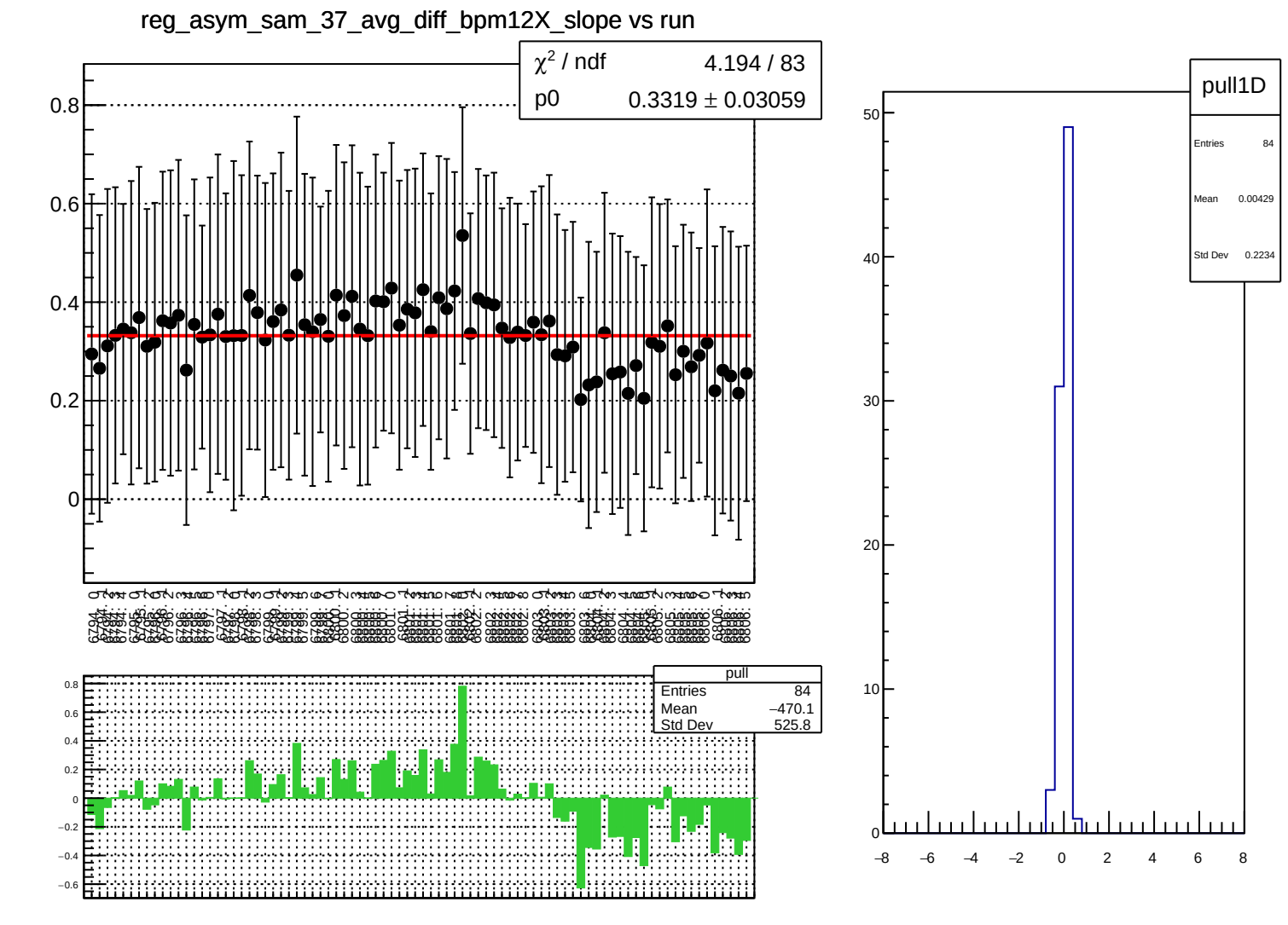

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 56.73 / 83
p0 −5.949 ± 0.7595
pull
Entries 84
Mean −31.23
Std Dev 89.39

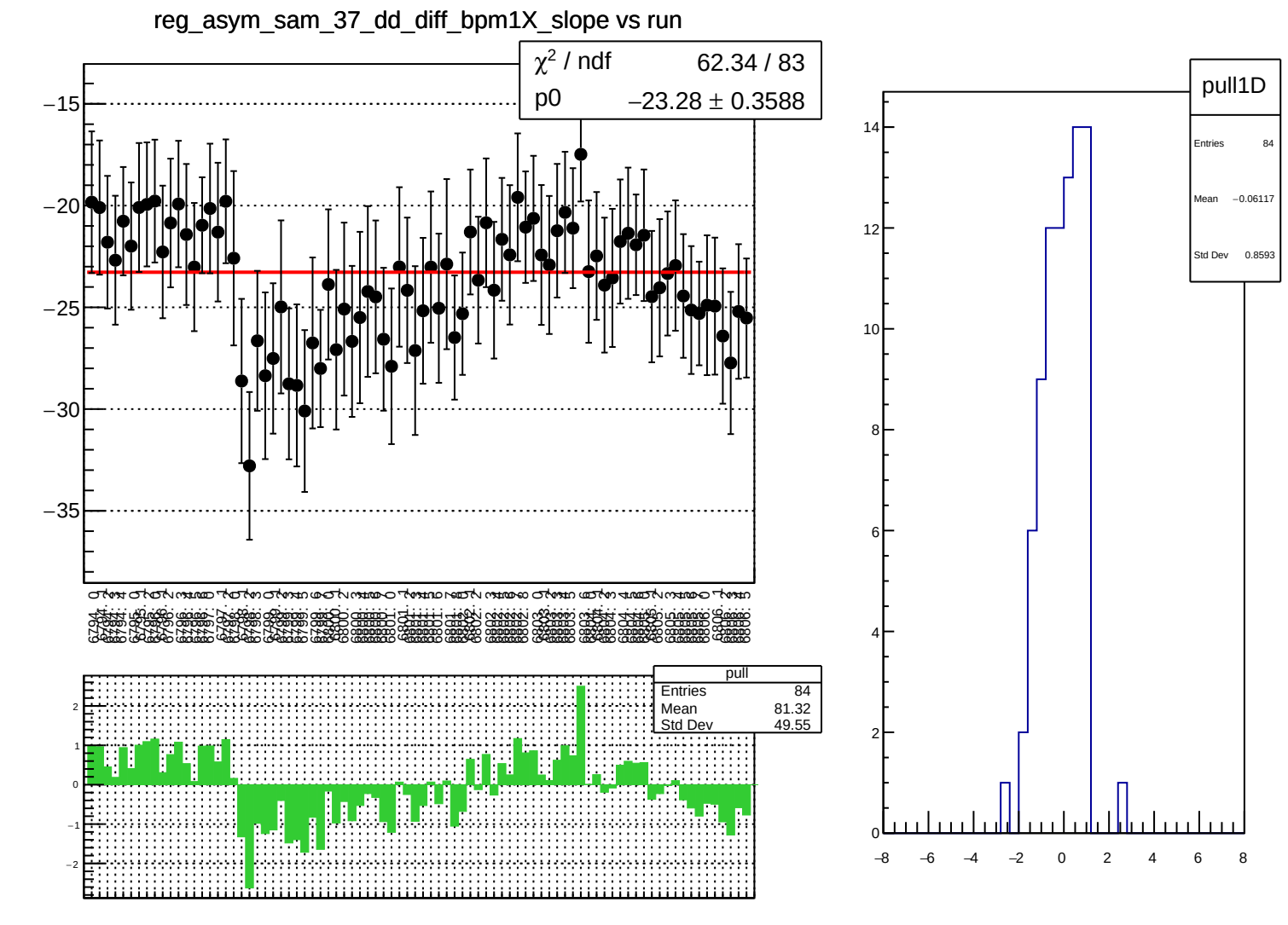

pull1D
Entries 84
Mean −0.06048
Std Dev 0.8196

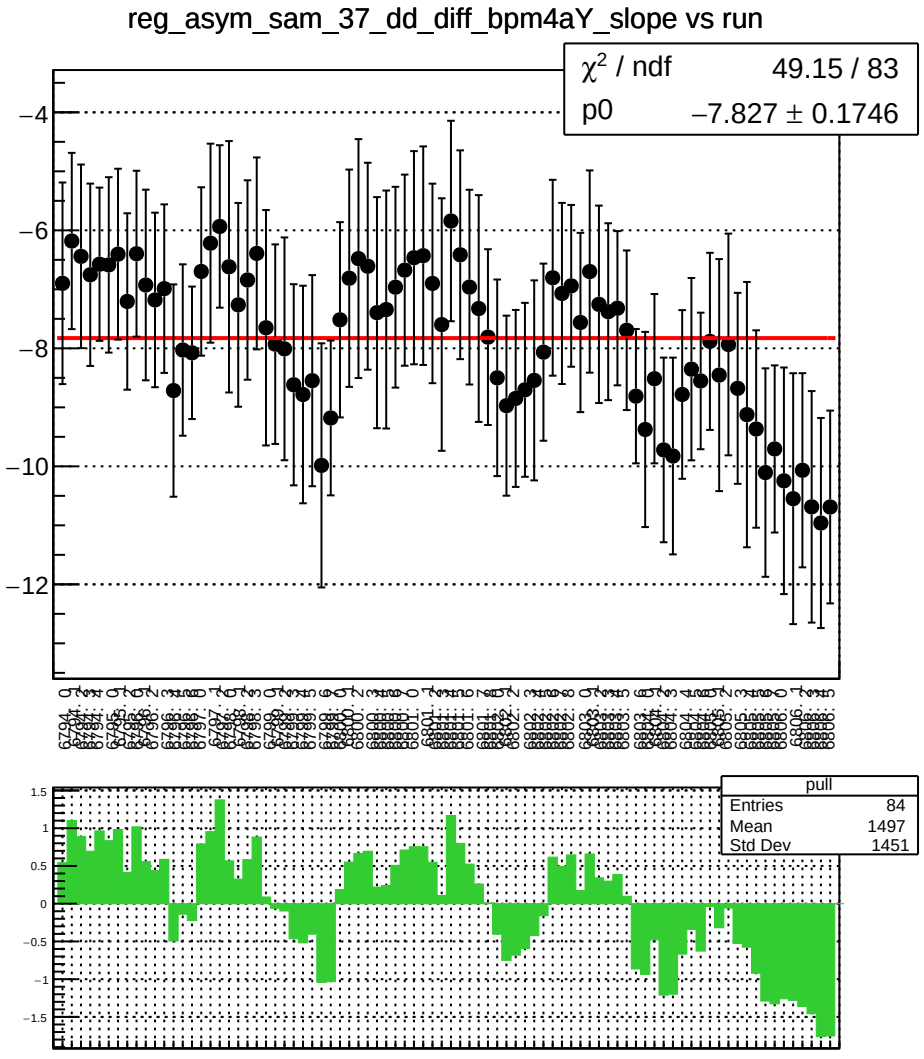

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.361 / 83
p0 −0.4112 ± 0.3692
pull
Entries 84
Mean 655.1
Std Dev 616.4
pull1D
Entries 84
Mean −0.005468
Std Dev 0.2526

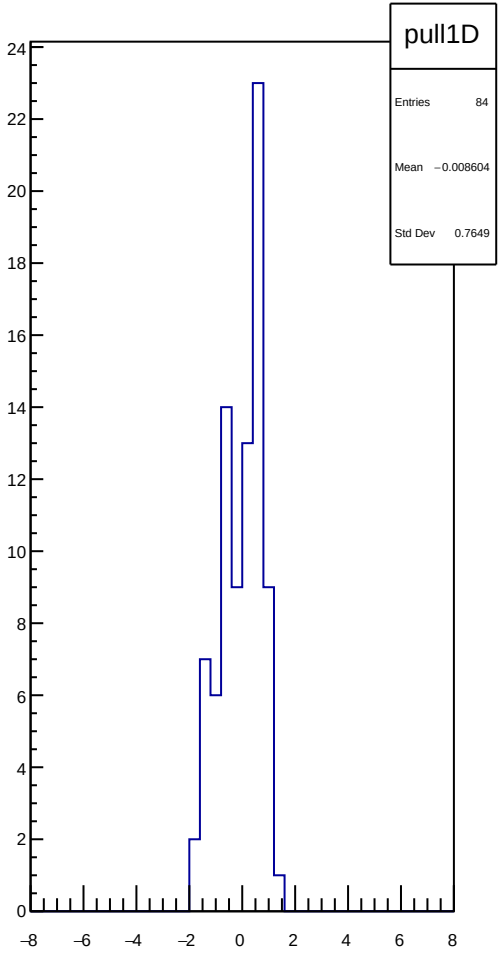

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.02 / 83
p0 −68.64 ± 0.7117
pull
Entries 84
Mean −46.84
Std Dev 105.1
pull1D
Entries 84
Mean 0.05034
Std Dev 0.8716

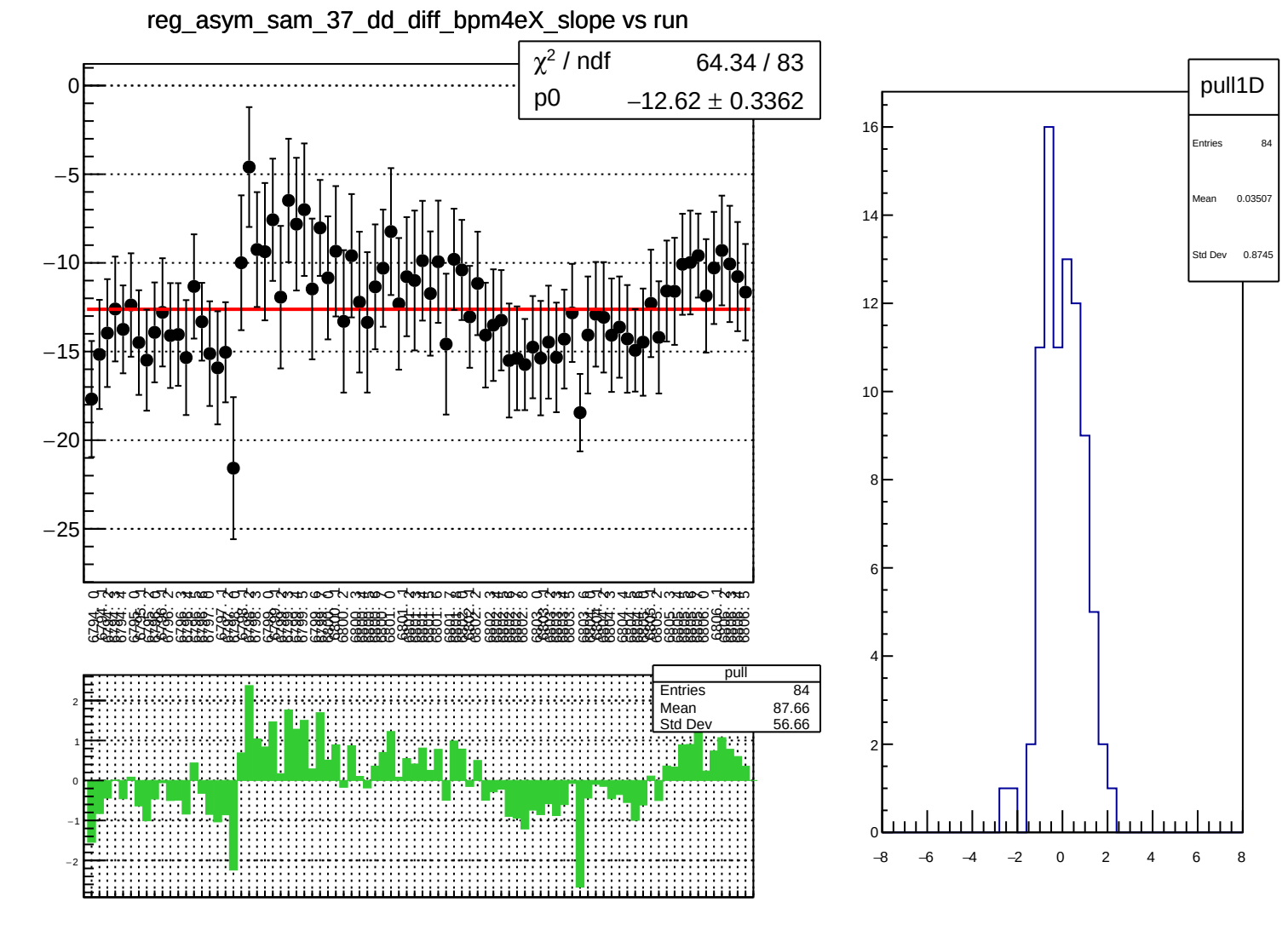

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.887 / 83
p0 9.33 ± 0.5168
pull
Entries 84
Mean 628.9
Std Dev 588.2
pull1D
Entries 84
Mean 0.007224
Std Dev 0.2862

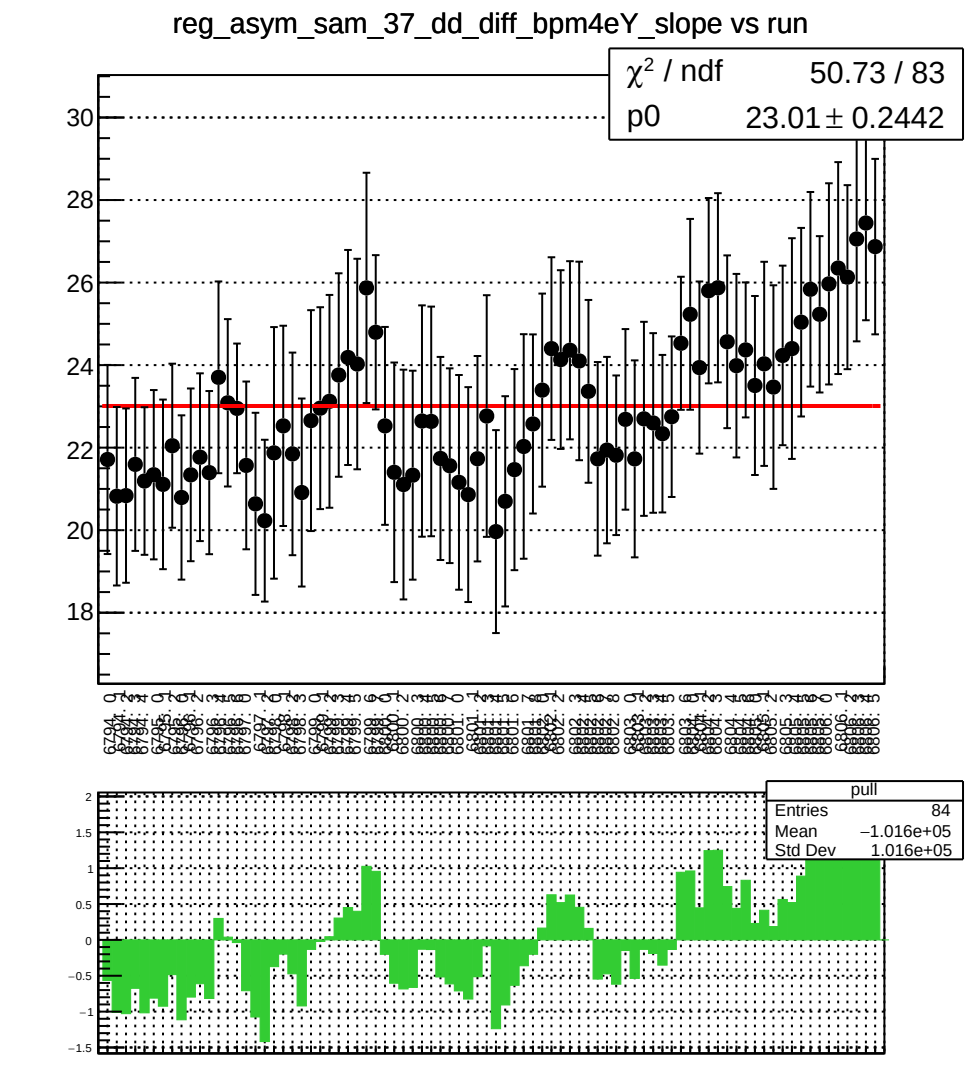

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 4.194 / 83
p0 0.3319 ± 0.03059
pull
Entries 84
Mean −470.1
Std Dev 525.8
pull1D
Entries 84
Mean 0.00429
Std Dev 0.2234

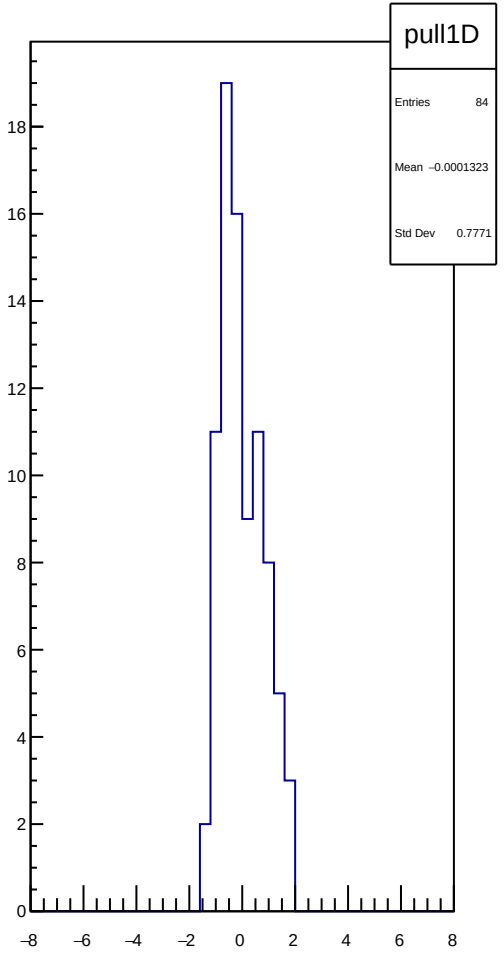

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 62.34 / 83
p0 −23.28 ± 0.3588
pull
Entries 84
Mean 81.32
Std Dev 49.55
pull1D
Entries 84
Mean −0.06117
Std Dev 0.8593

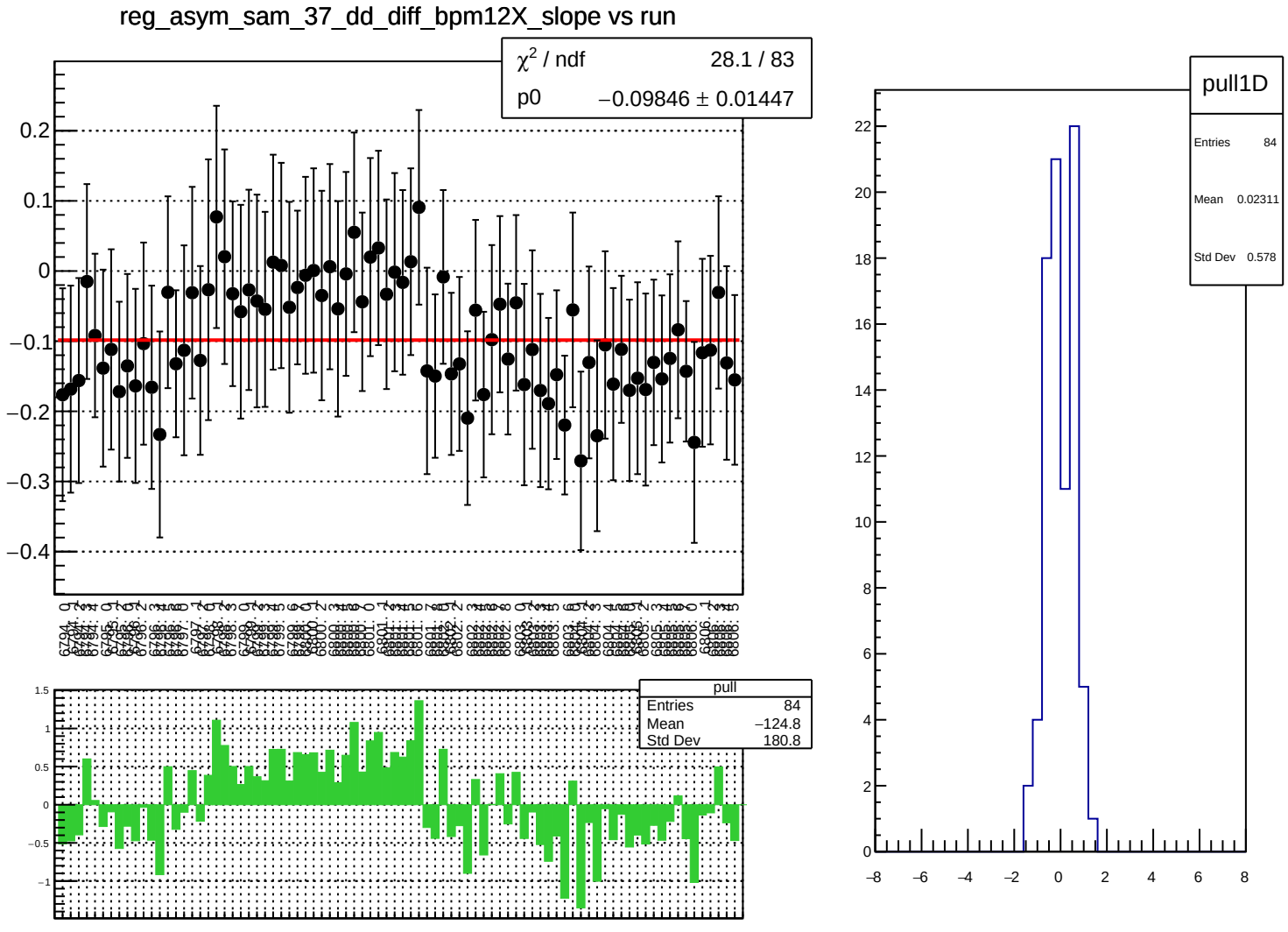

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.15 / 83
p0 −7.827 ± 0.1746
pull
Entries 84
Mean 1497
Std Dev 1451

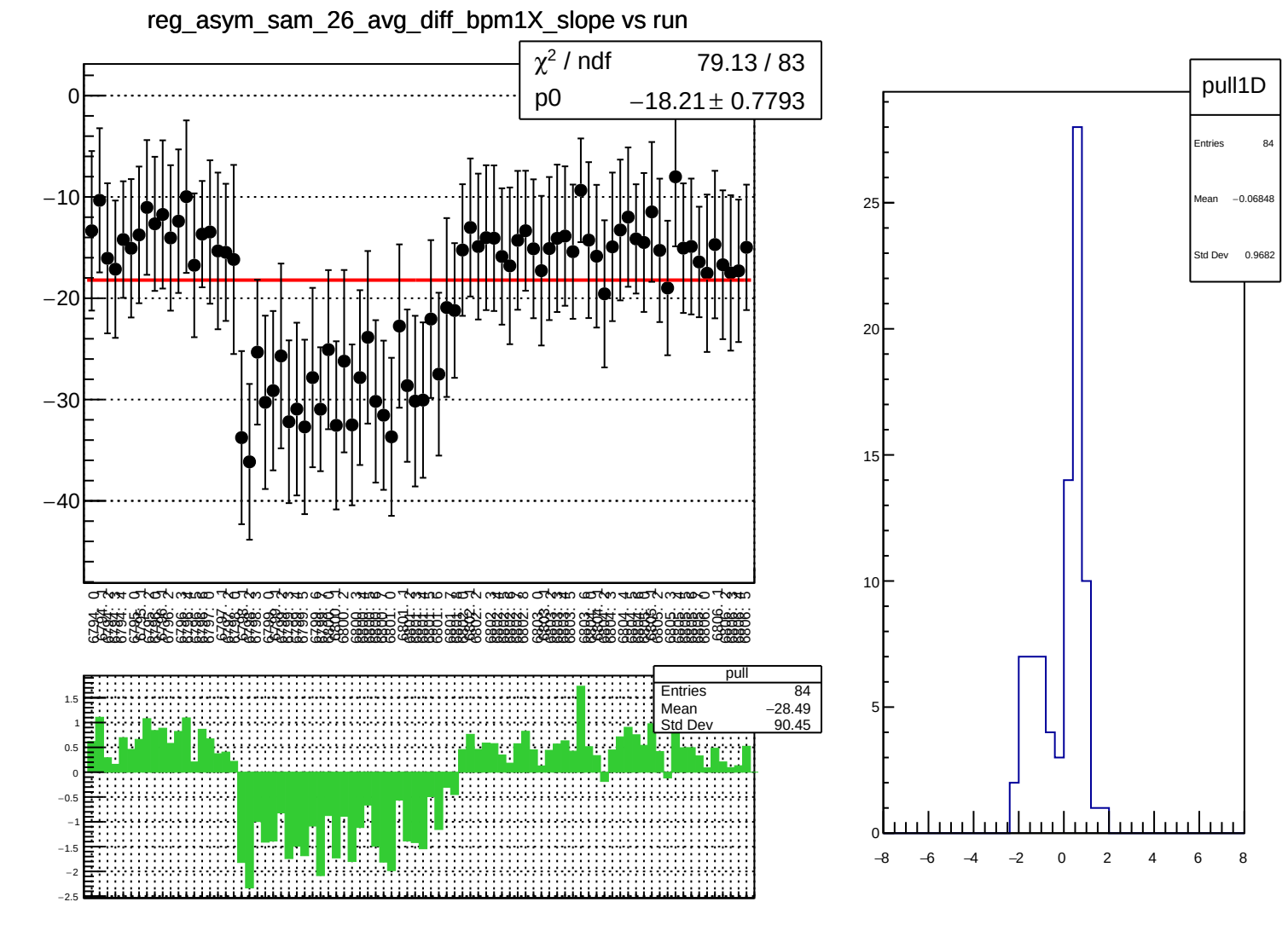

pull1D
Entries 84
Mean −0.008604
Std Dev 0.7649

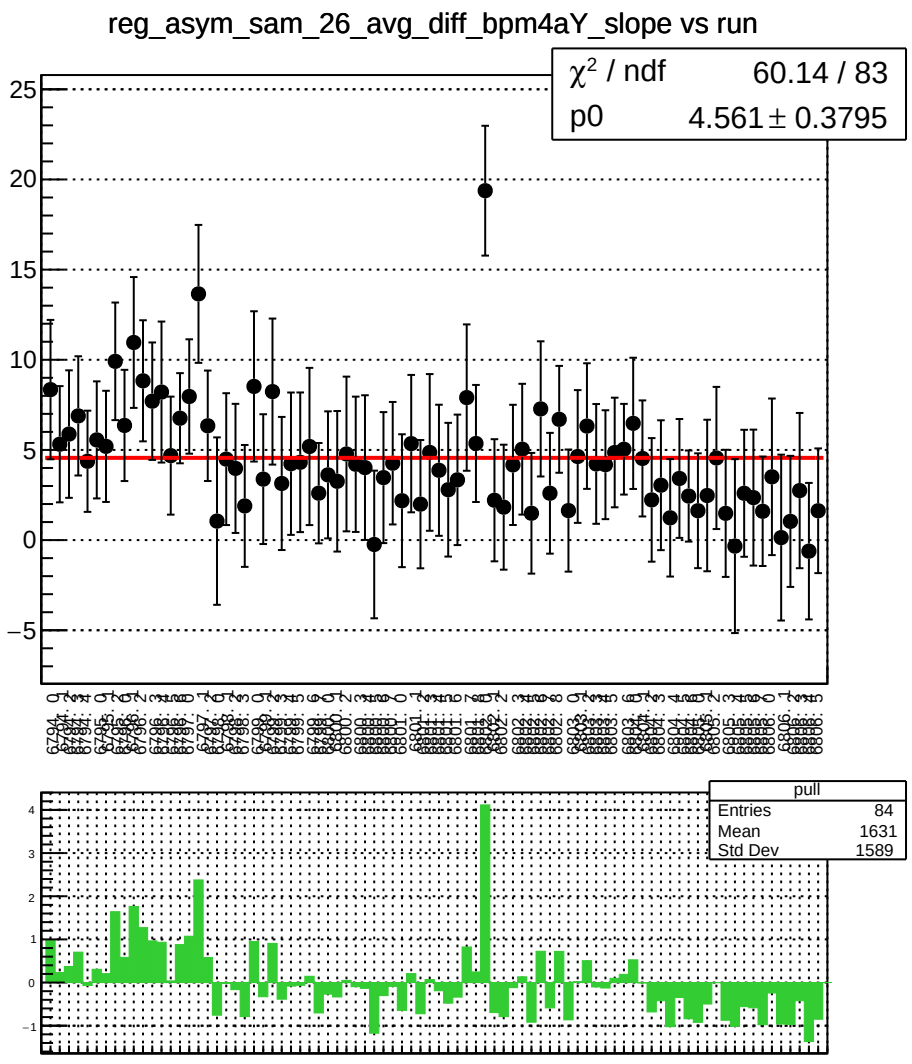

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.34 / 83
p0 −12.62 ± 0.3362
pull
Entries 84
Mean 87.66
Std Dev 56.66
pull1D
Entries 84
Mean 0.03507
Std Dev 0.8745

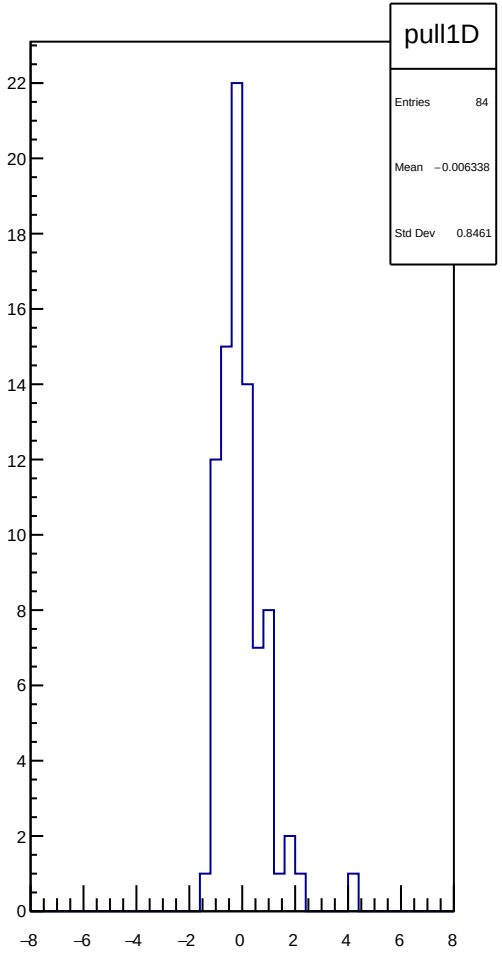

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.73 / 83
p0 23.01 ± 0.2442
pull
Entries 84
Mean −1.016e+05
Std Dev 1.016e+05

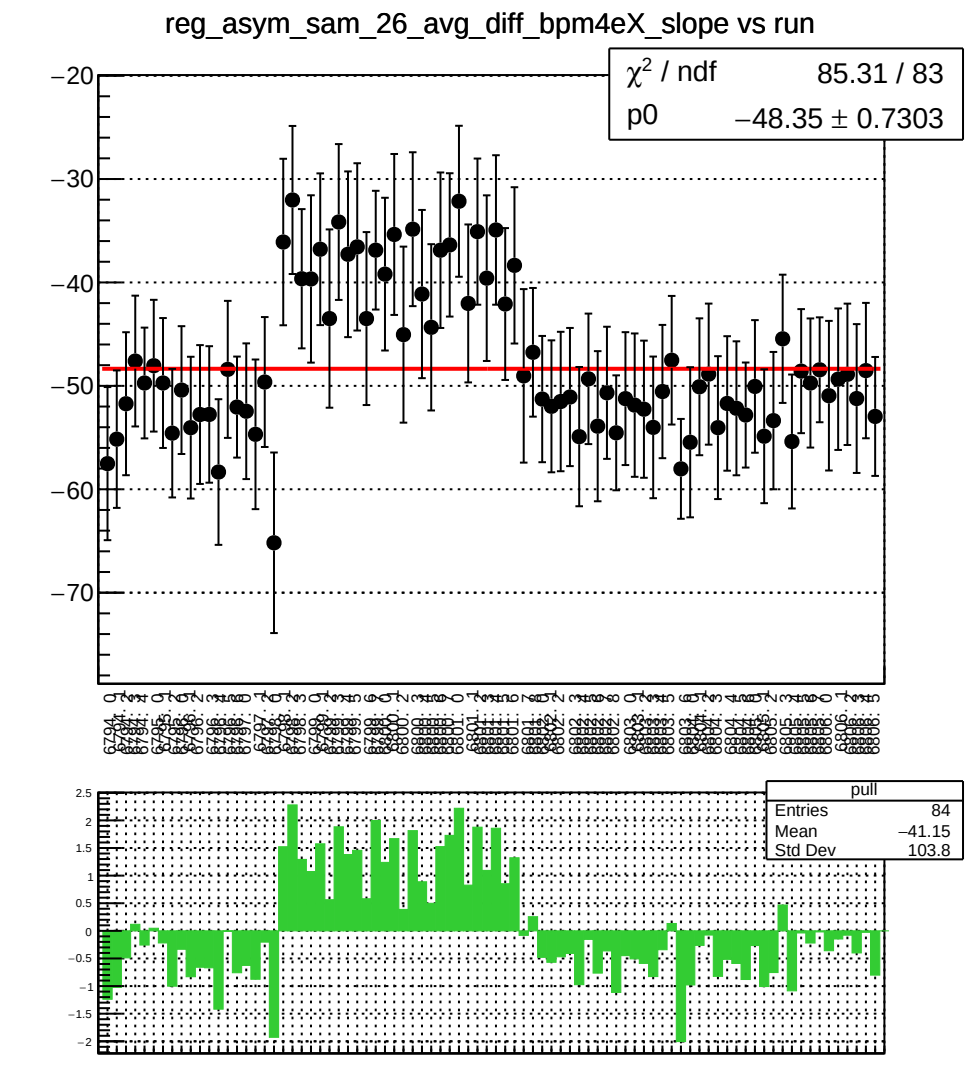

pull1D
Entries 84
Mean −0.0001323
Std Dev 0.7771

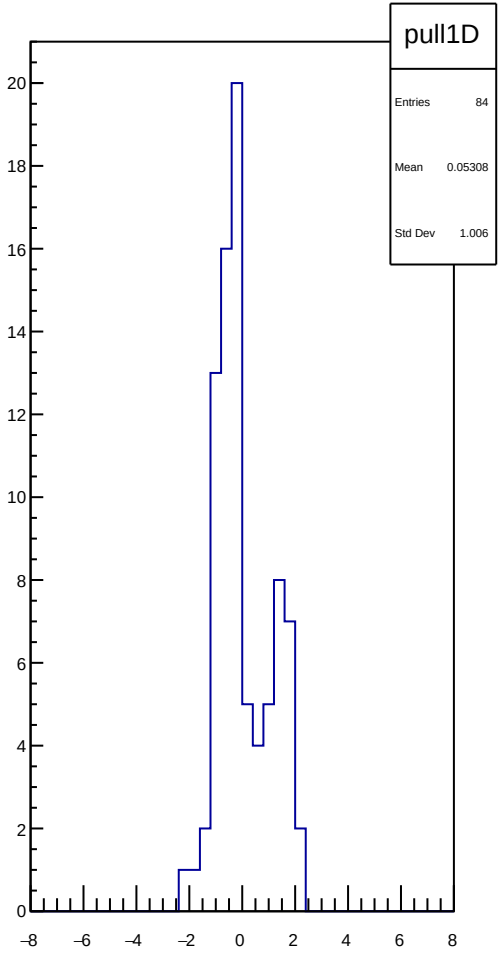

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 28.1 / 83
p0 −0.09846 ± 0.01447
pull
Entries 84
Mean −124.8
Std Dev 180.8
pull1D
Entries 84
Mean 0.02311
Std Dev 0.578

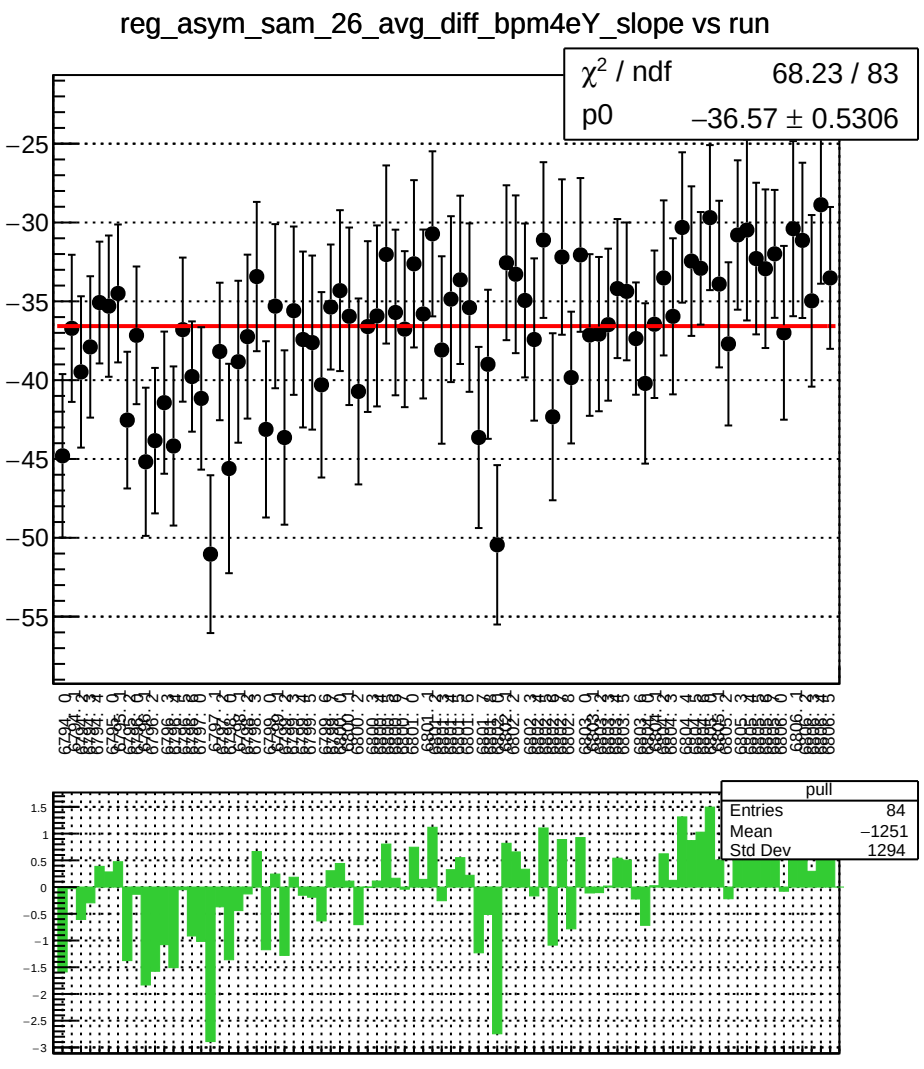

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 79.13 / 83
p0 −18.21 ± 0.7793
pull
Entries 84
Mean −28.49
Std Dev 90.45
pull1D
Entries 84
Mean −0.06848
Std Dev 0.9682

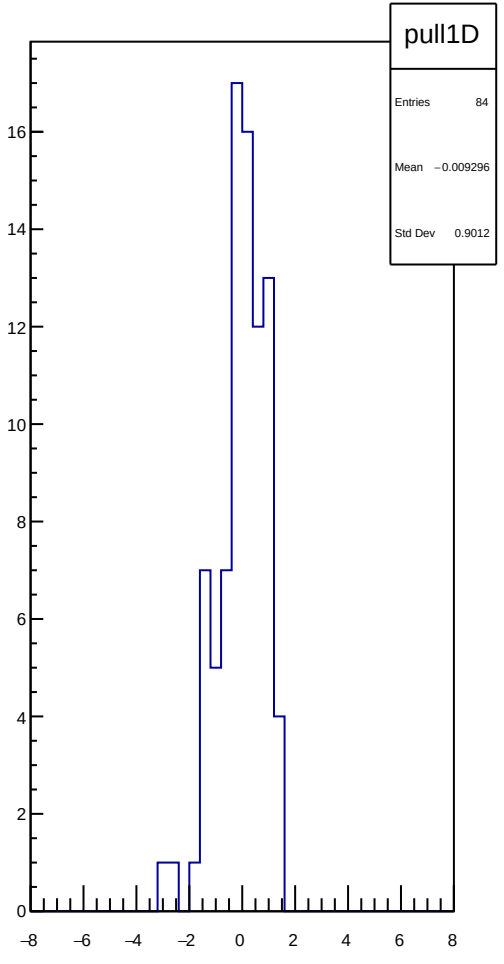

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.14 / 83
p0 4.561 ± 0.3795
pull
Entries 84
Mean 1631
Std Dev 1589

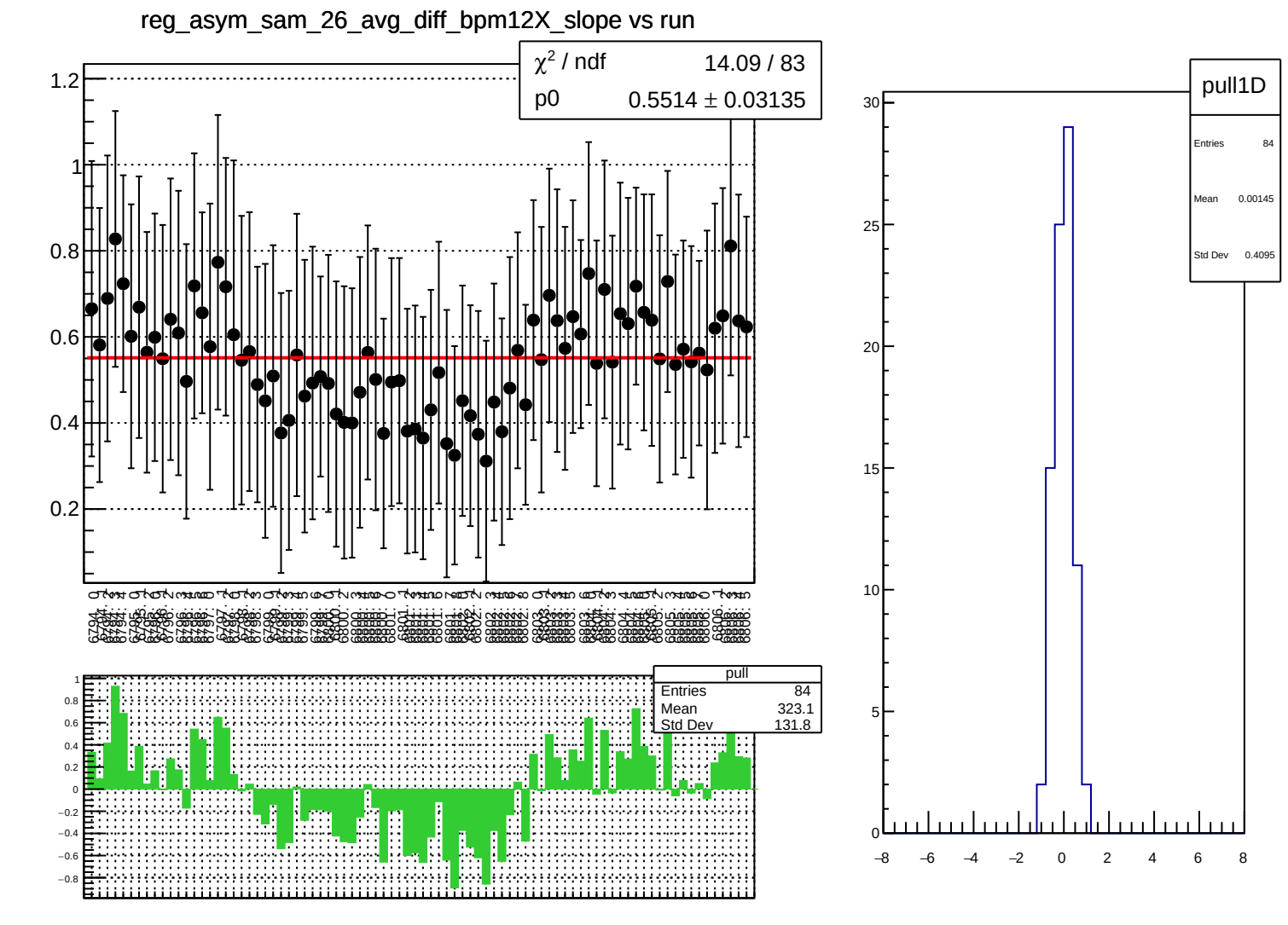

pull1D
Entries 84
Mean −0.006338
Std Dev 0.8461

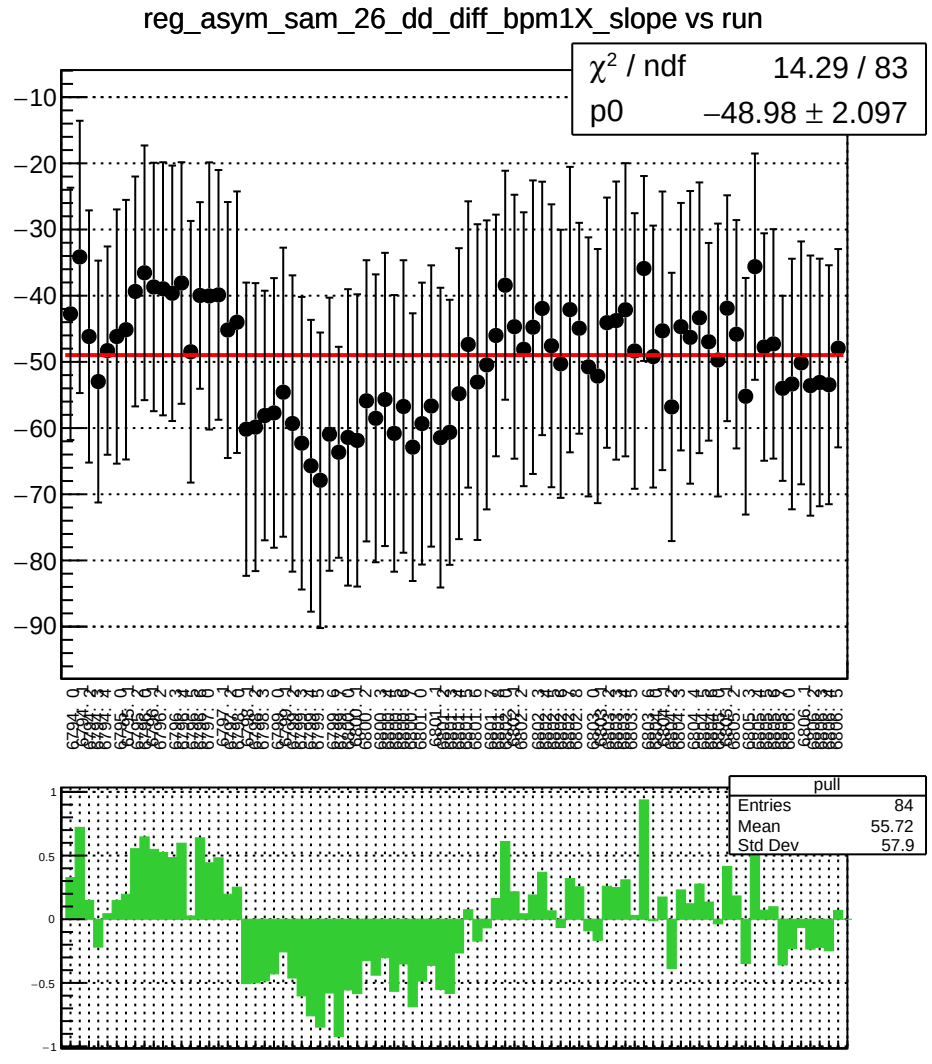

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.31 / 83
p0 −48.35 ± 0.7303
pull
Entries 84
Mean −41.15
Std Dev 103.8

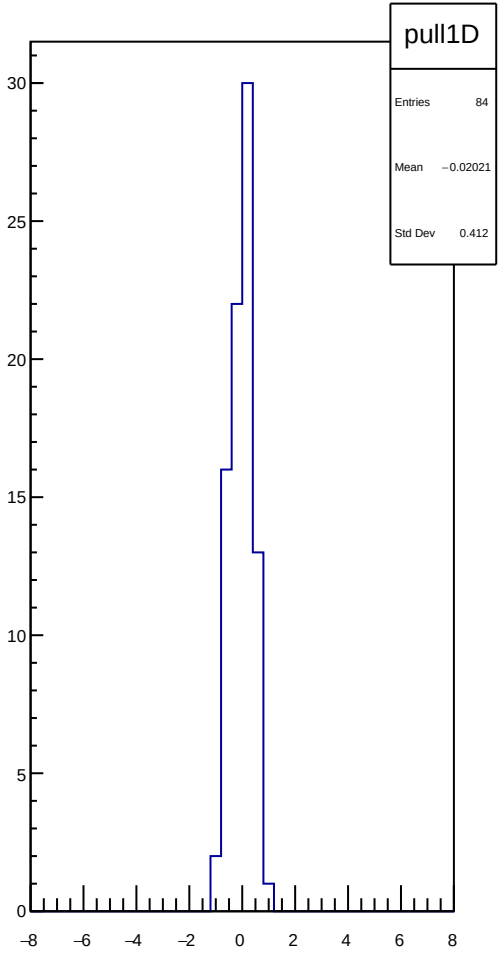

pull1D
Entries 84
Mean 0.05308
Std Dev 1.006

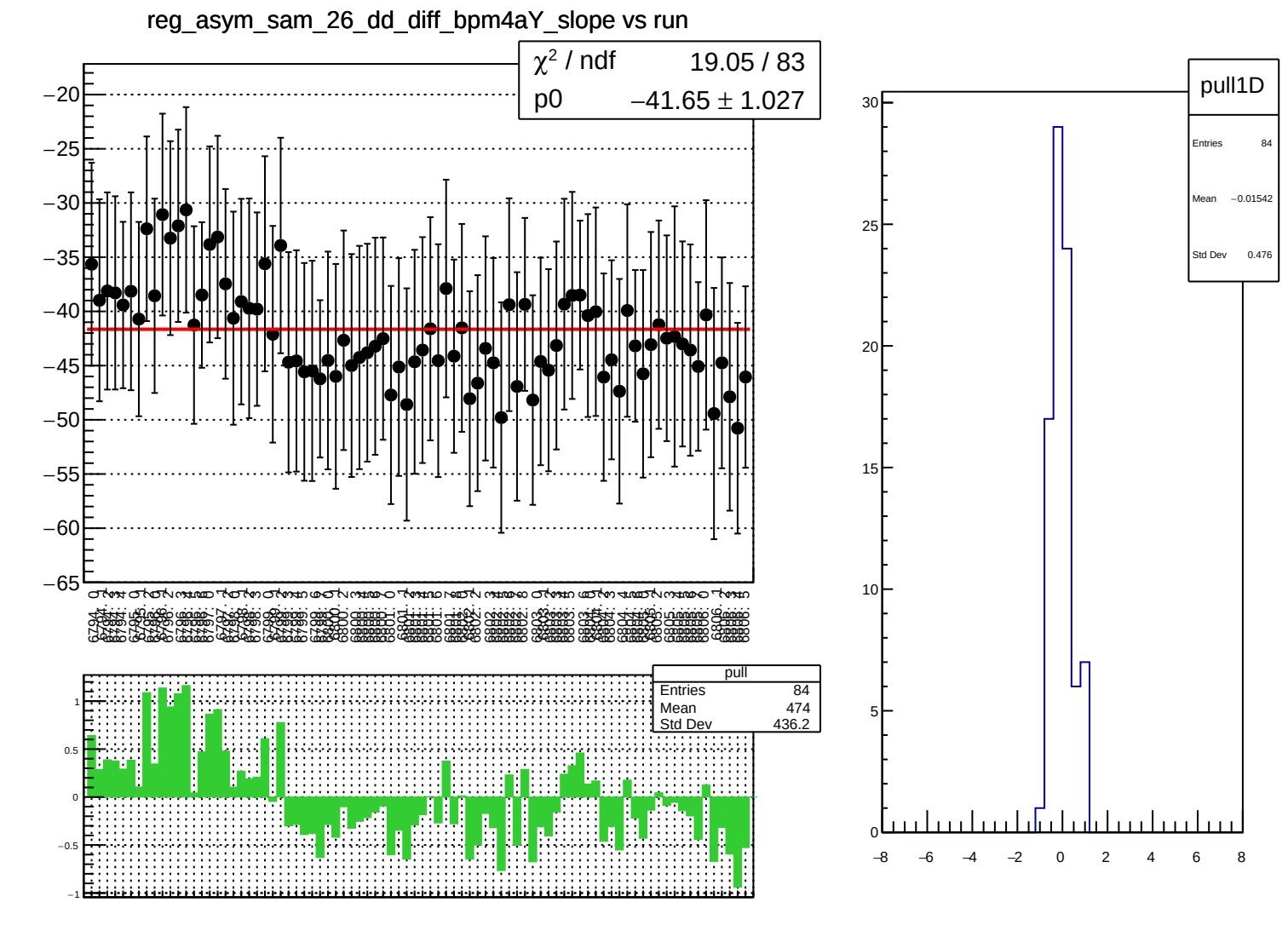

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 68.23 / 83
p0 −36.57 ± 0.5306
pull
Entries 84
Mean −1251
Std Dev 1294

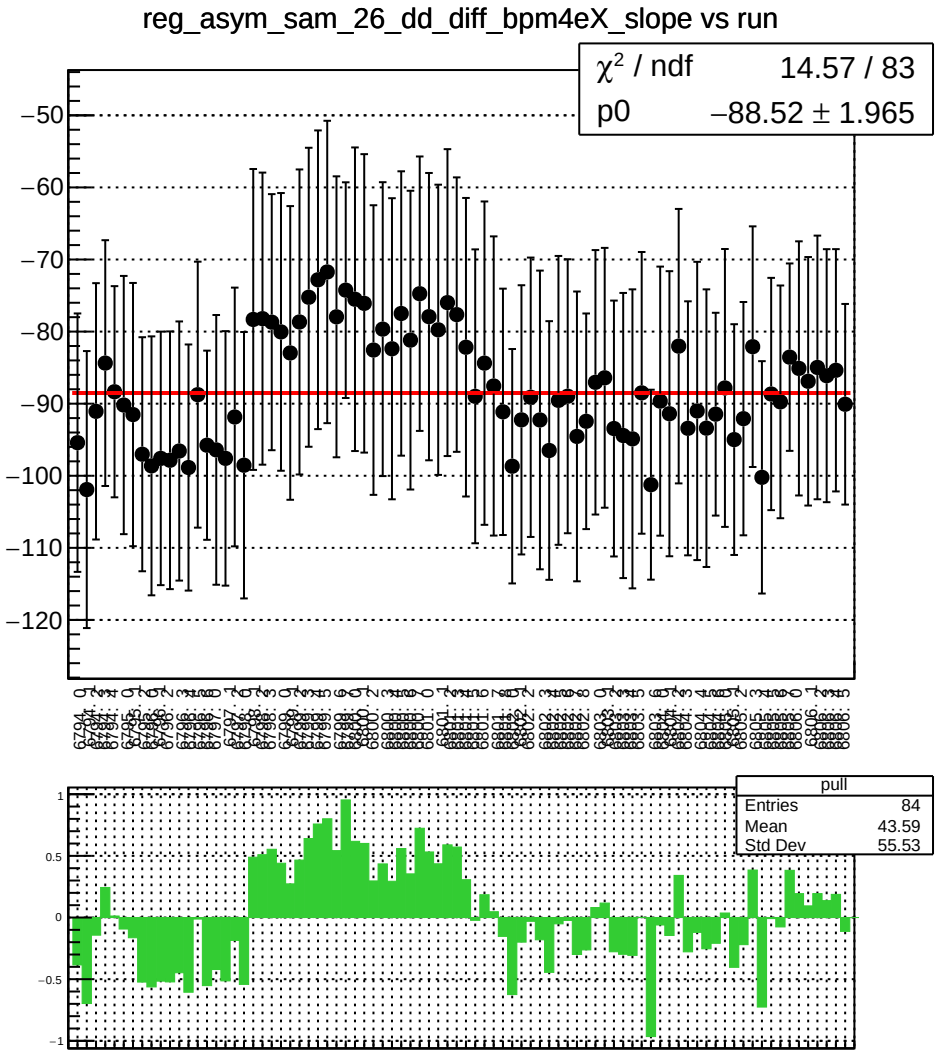

pull1D
Entries 84
Mean −0.009296
Std Dev 0.9012

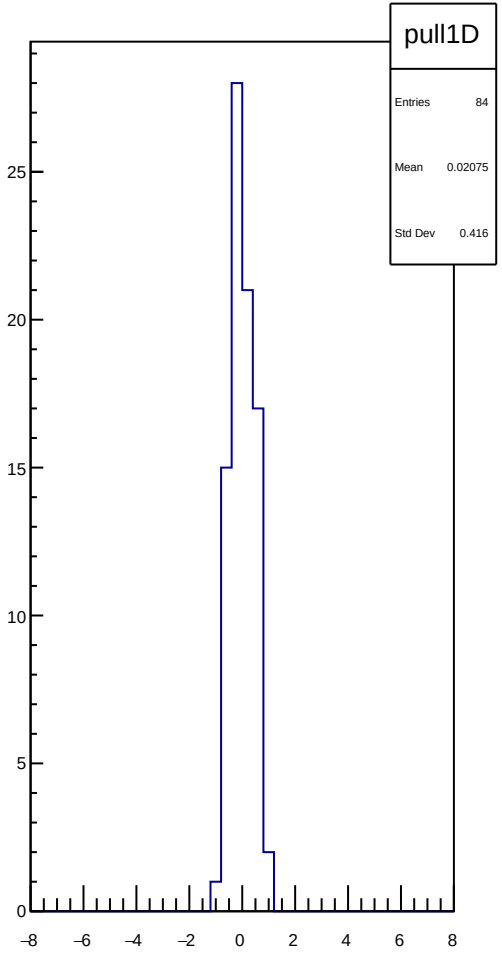

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 14.09 / 83
p0 0.5514 ± 0.03135
pull
Entries 84
Mean 323.1
Std Dev 131.8
pull1D
Entries 84
Mean 0.00145
Std Dev 0.4095

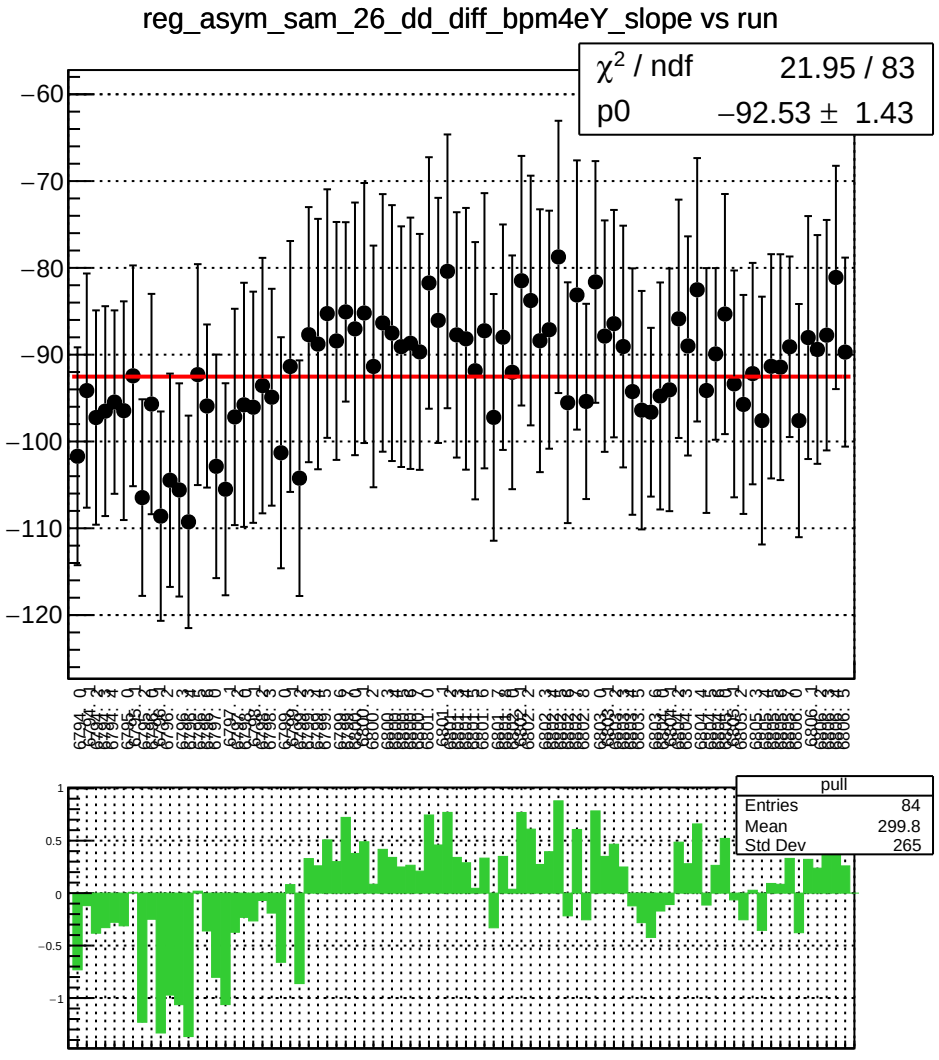

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 14.29 / 83
p0 −48.98 ± 2.097
pull
Entries 84
Mean 55.72
Std Dev 57.9

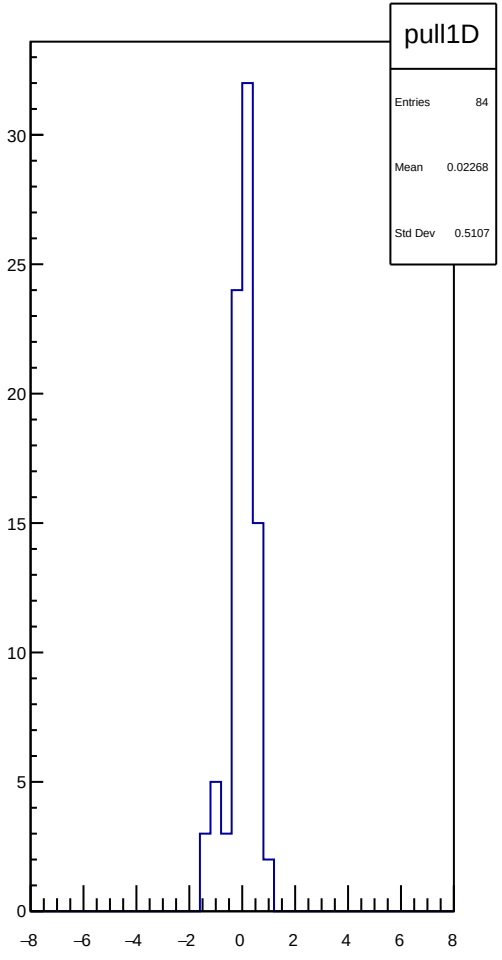

pull1D
Entries 84
Mean −0.02021
Std Dev 0.412

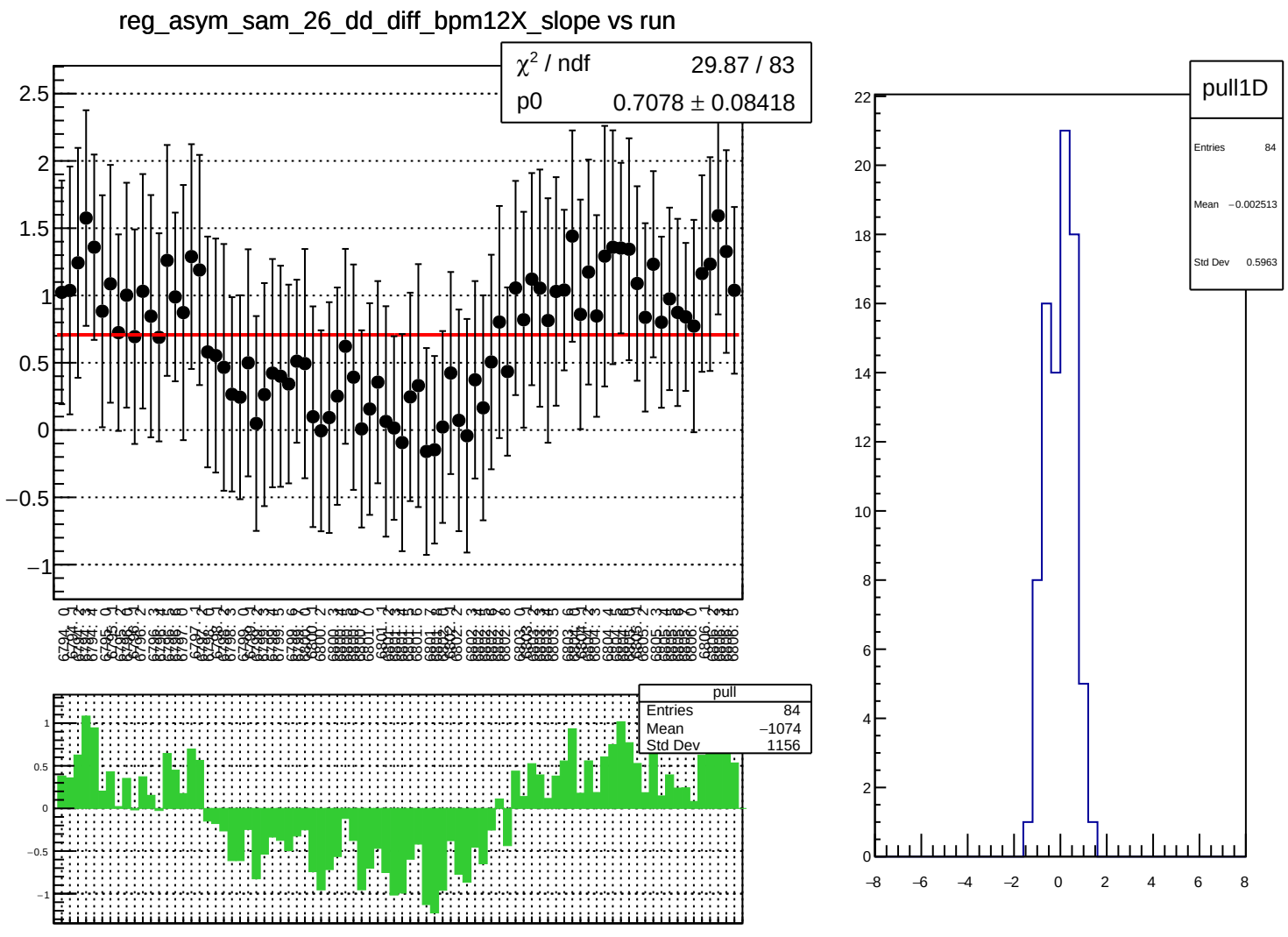

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.05 / 83
p0 −41.65 ± 1.027
pull
Entries 84
Mean 474
Std Dev 436.2
pull1D
Entries 84
Mean −0.01542
Std Dev 0.476

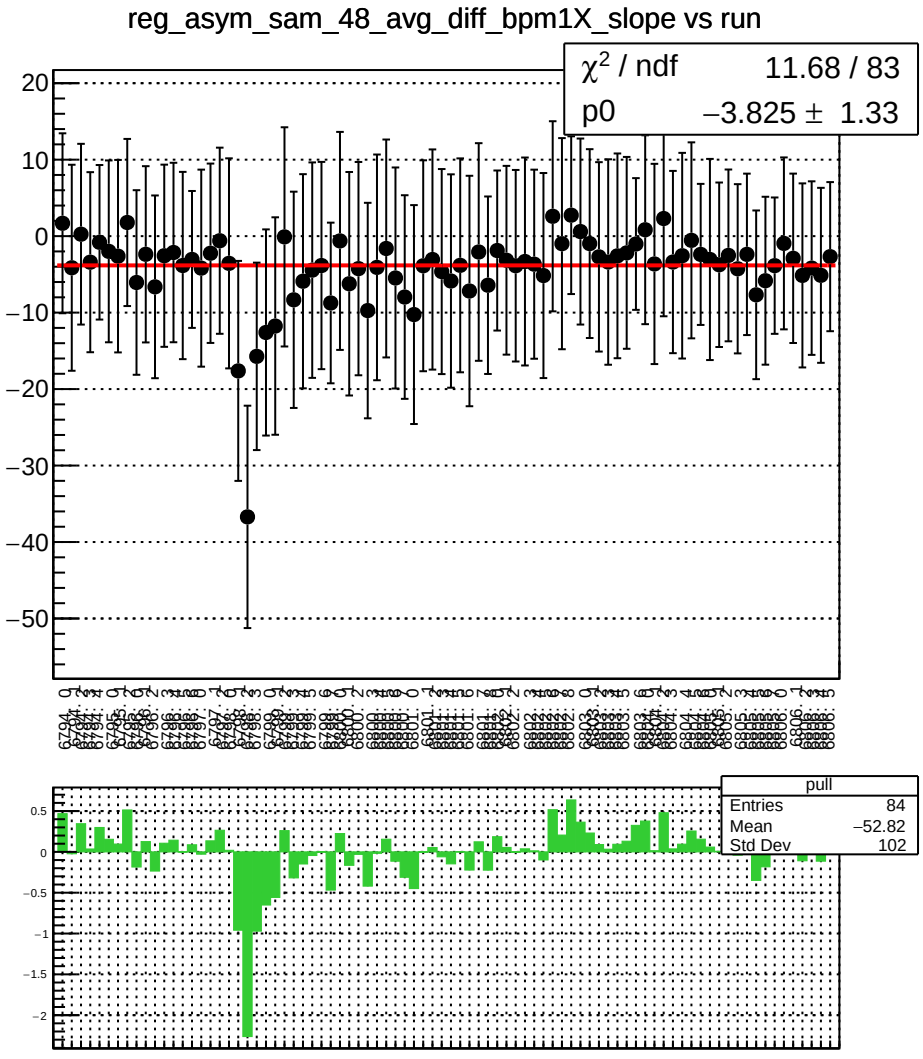

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.57 / 83
p0 −88.52 ± 1.965
pull
Entries 84
Mean 43.59
Std Dev 55.53

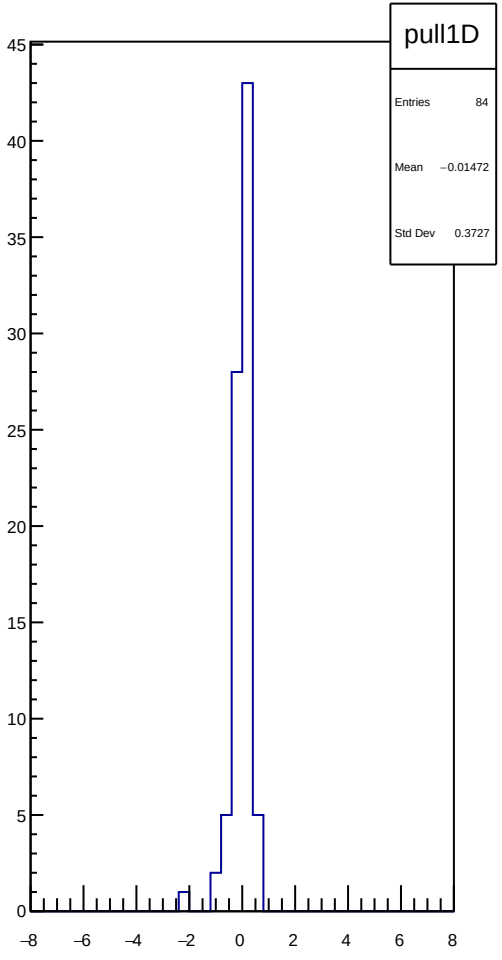

pull1D
Entries 84
Mean 0.02075
Std Dev 0.416

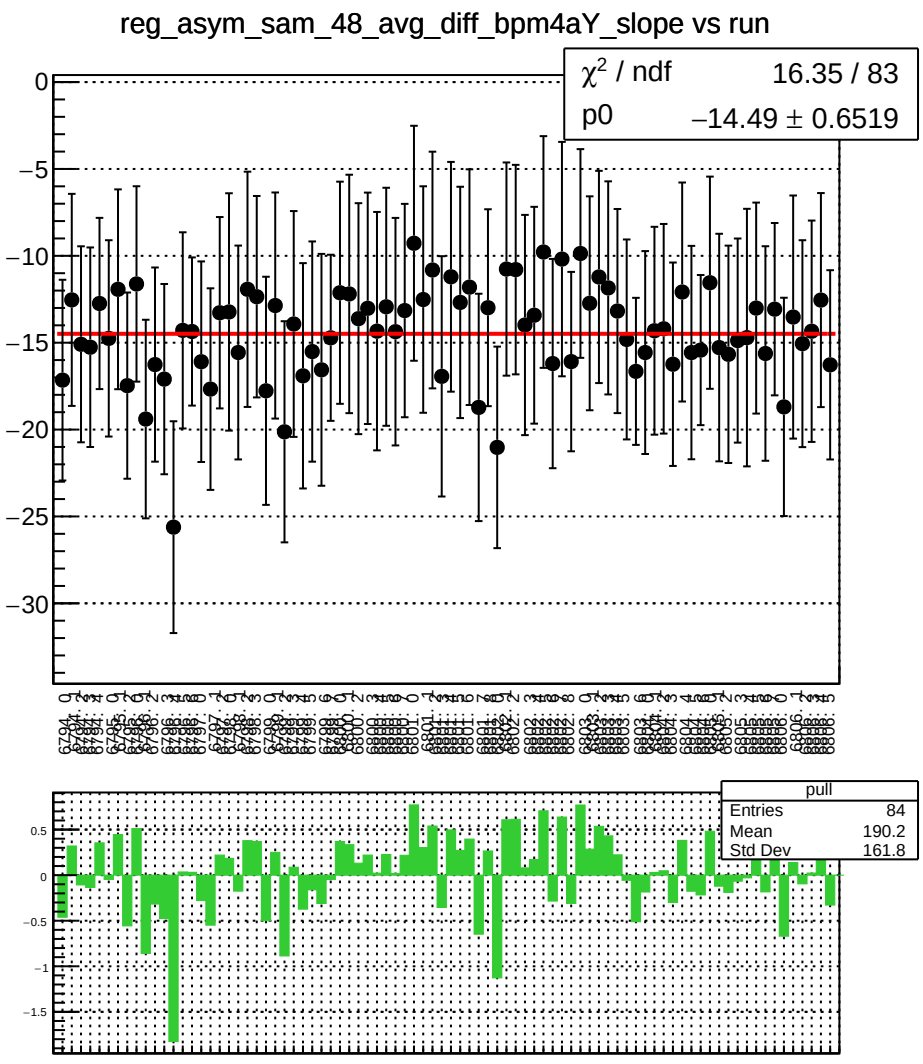

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.95 / 83
p0 −92.53 ± 1.43
pull
Entries 84
Mean 299.8
Std Dev 265

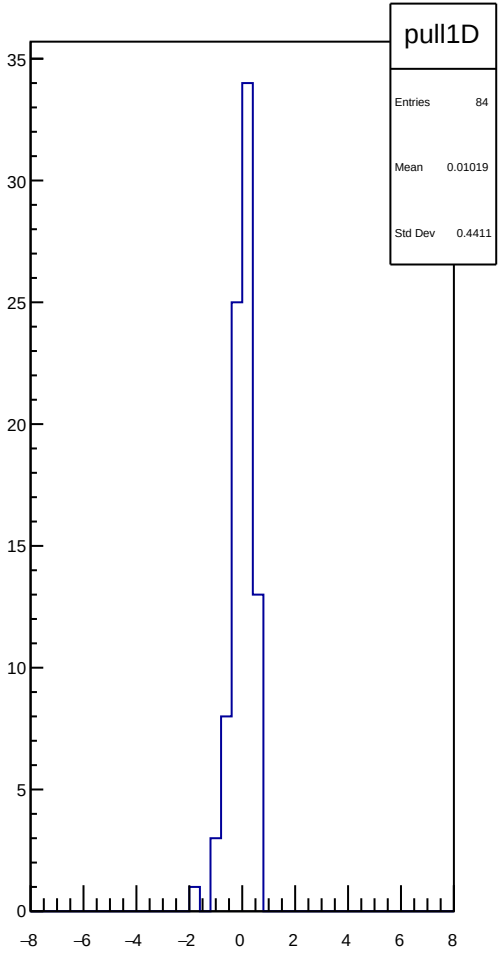

pull1D
Entries 84
Mean 0.02268
Std Dev 0.5107

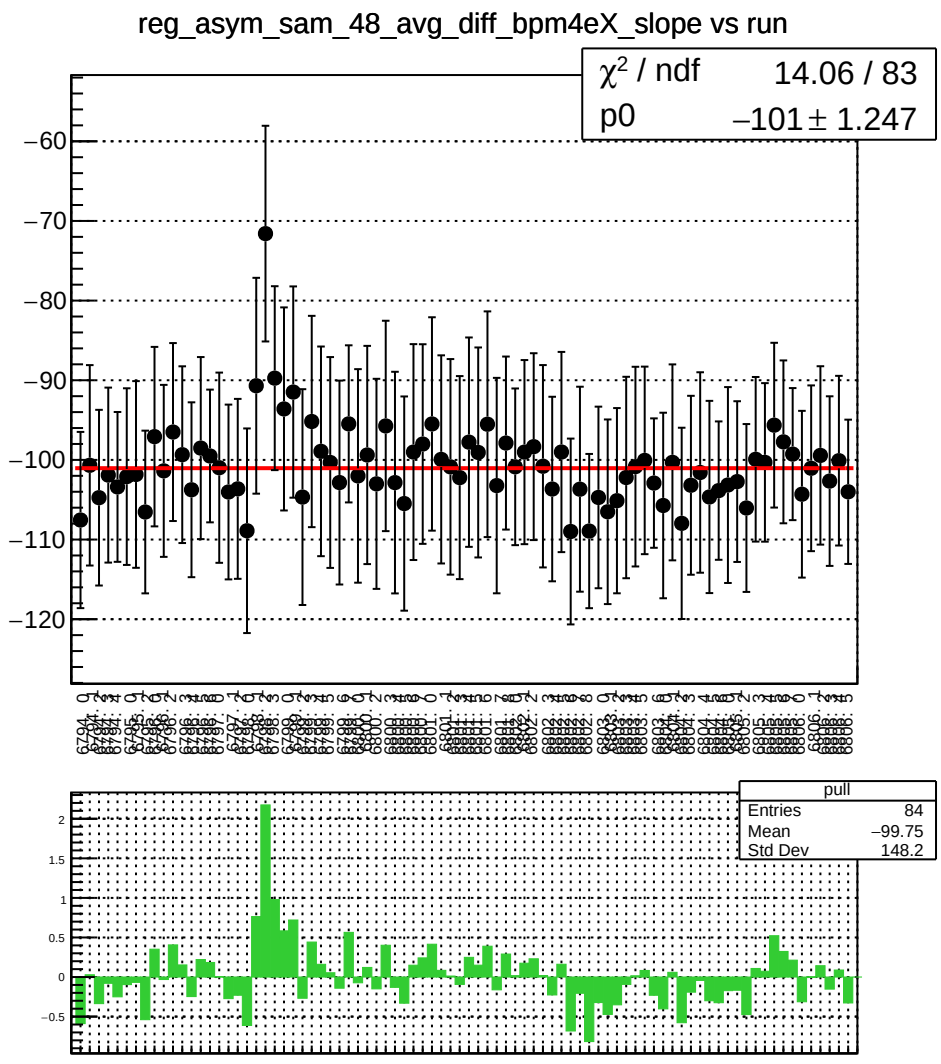

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 29.87 / 83
p0 0.7078 ± 0.08418
pull
Entries 84
Mean −1074
Std Dev 1156
pull1D
Entries 84
Mean −0.002513
Std Dev 0.5963

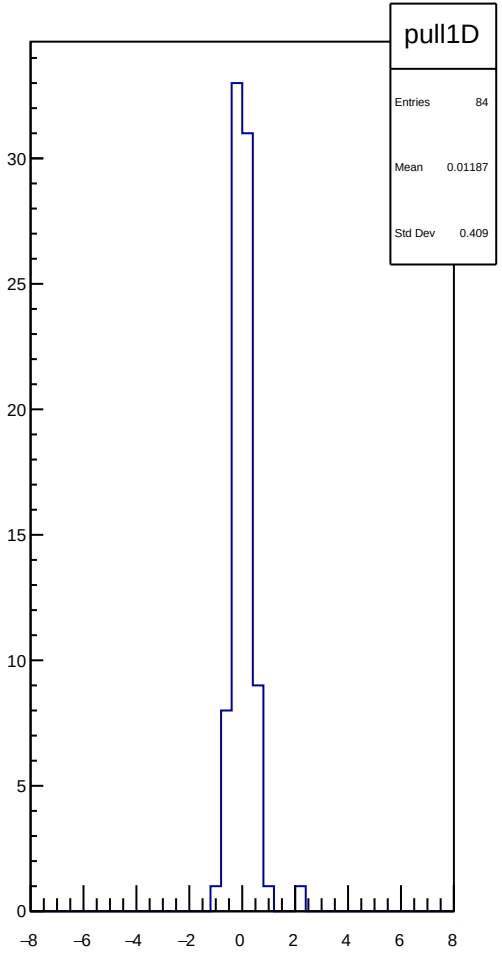

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 11.68 / 83
p0 −3.825 ± 1.33
pull
Entries 84
Mean −52.82
Std Dev 102

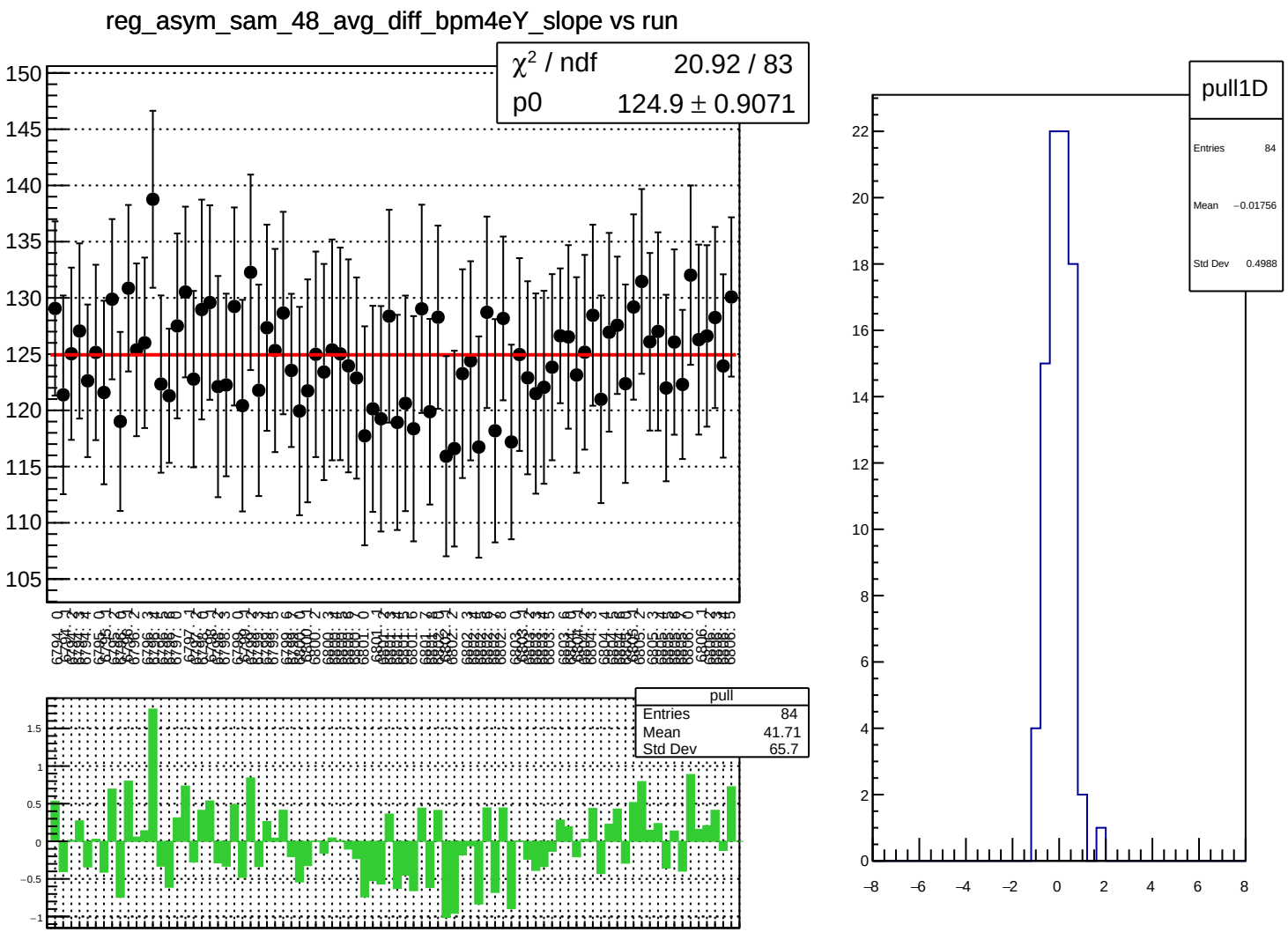

pull1D
Entries 84
Mean −0.01472
Std Dev 0.3727

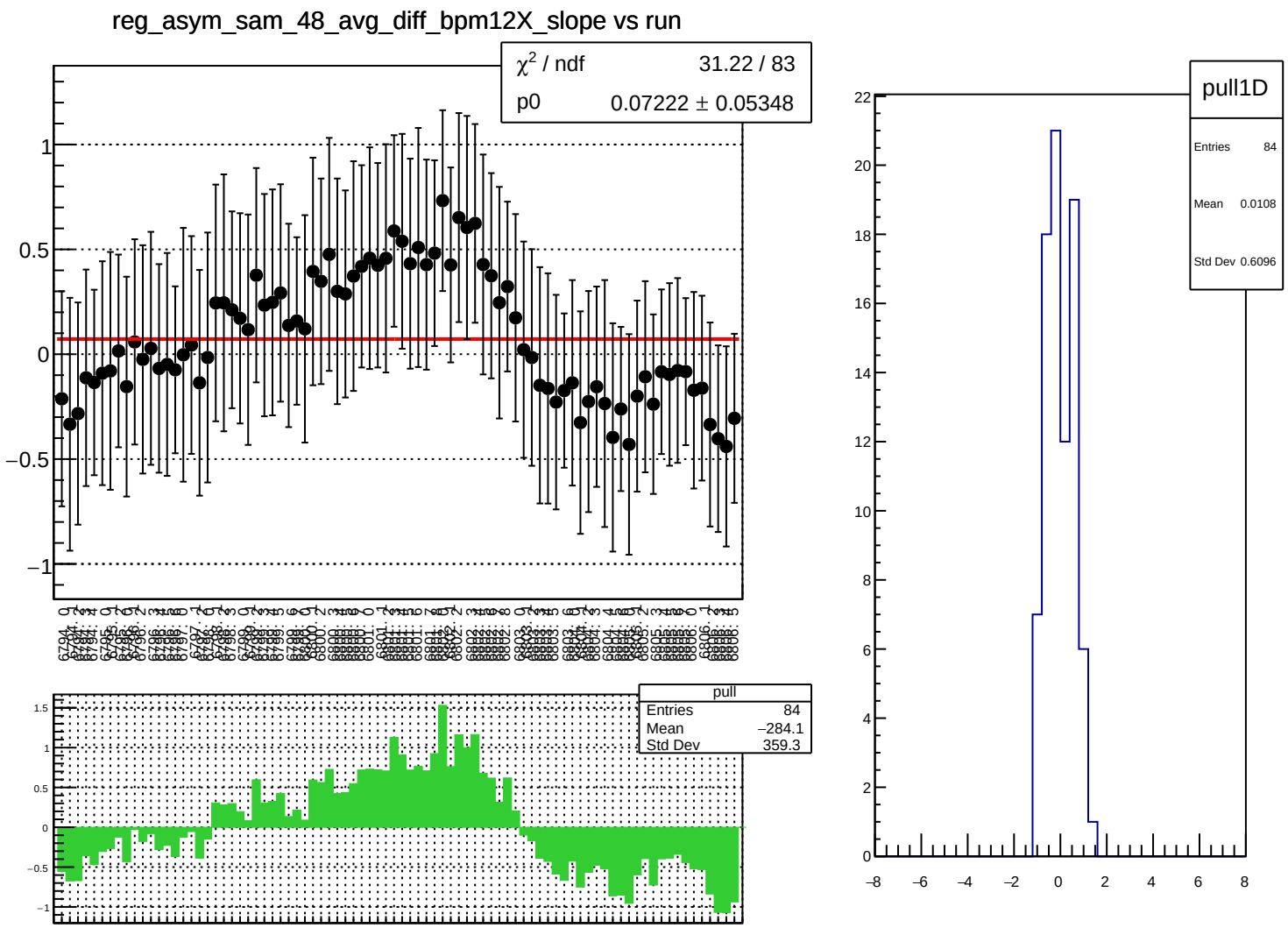

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.35 / 83
p0 −14.49 ± 0.6519
pull
Entries 84
Mean 190.2
Std Dev 161.8

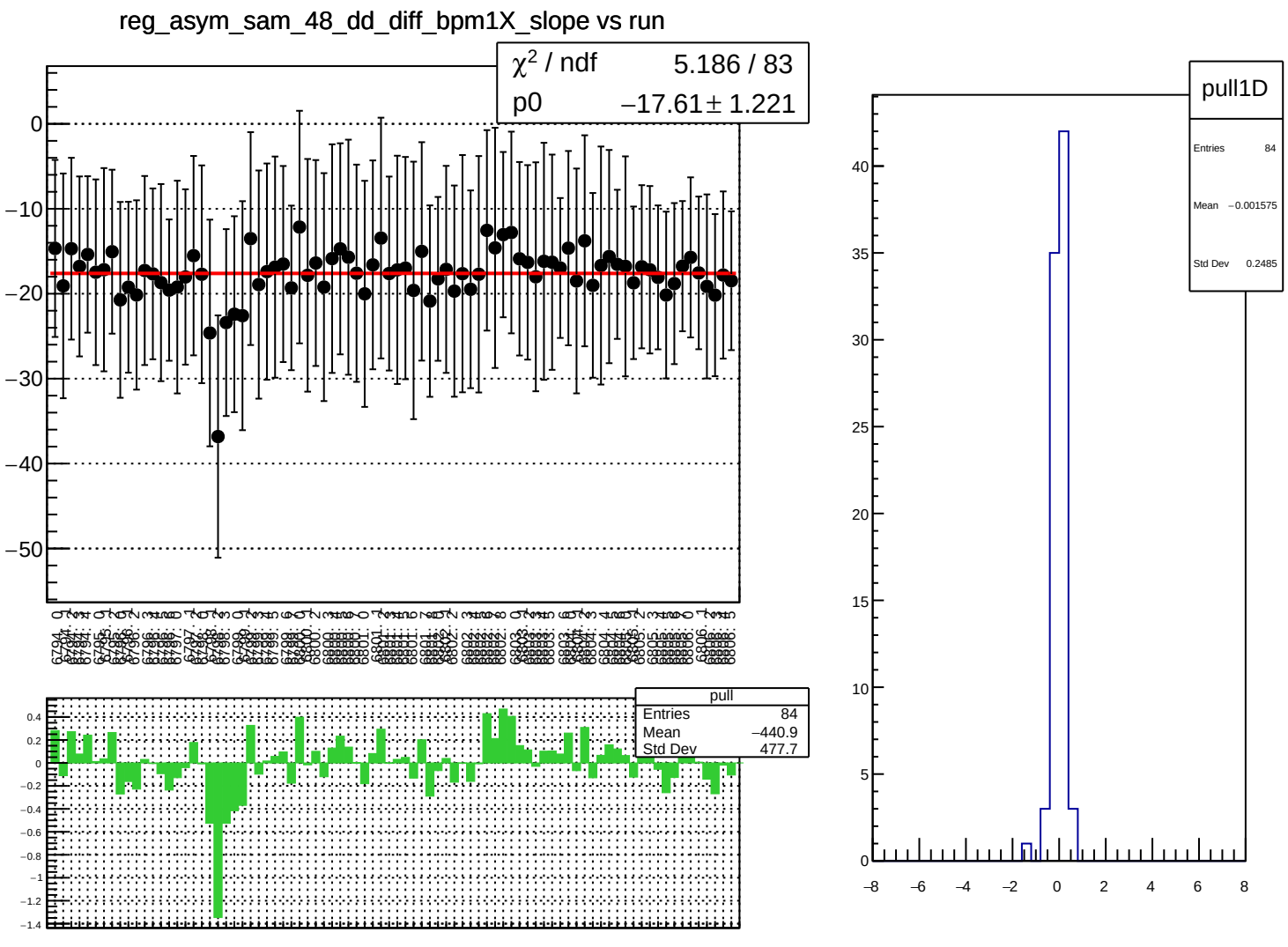

pull1D
Entries 84
Mean 0.01019
Std Dev 0.4411

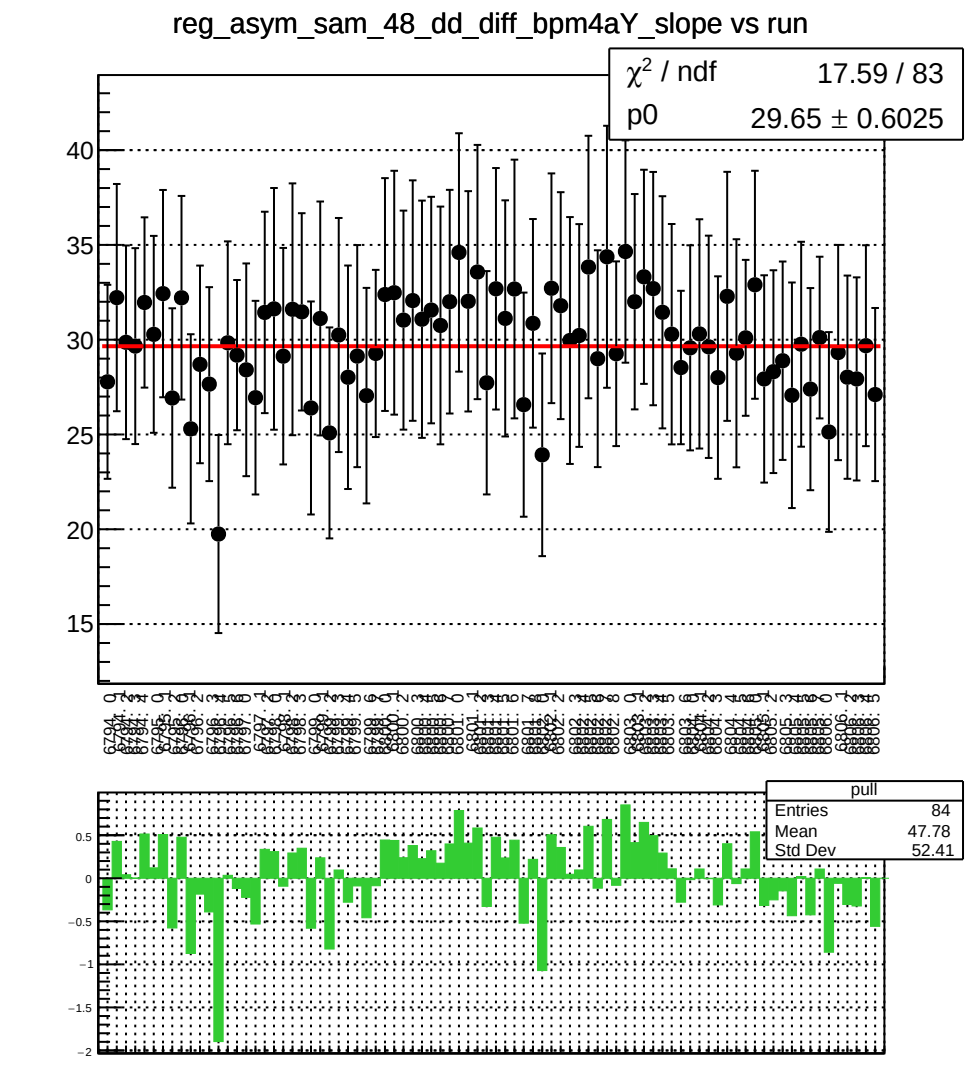

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.06 / 83
p0 −101 ± 1.247
pull
Entries 84
Mean −99.75
Std Dev 148.2

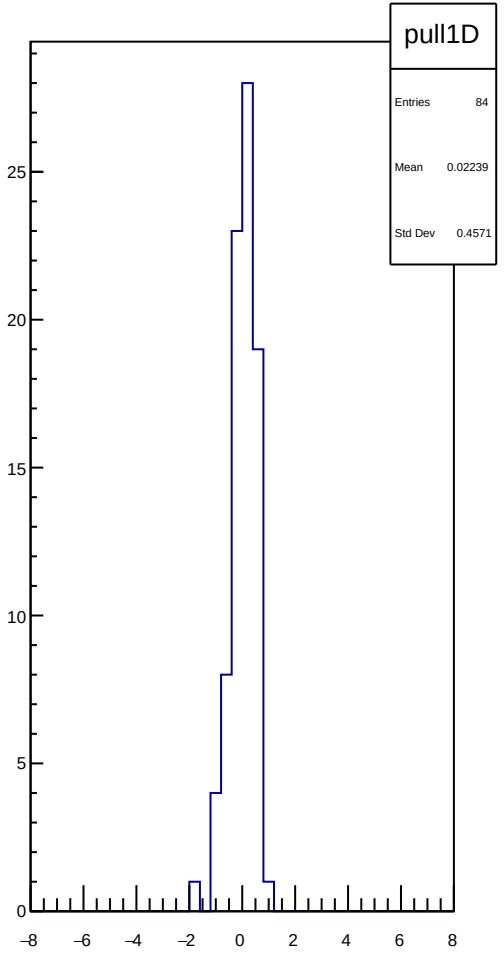

pull1D
Entries 84
Mean 0.01187
Std Dev 0.409

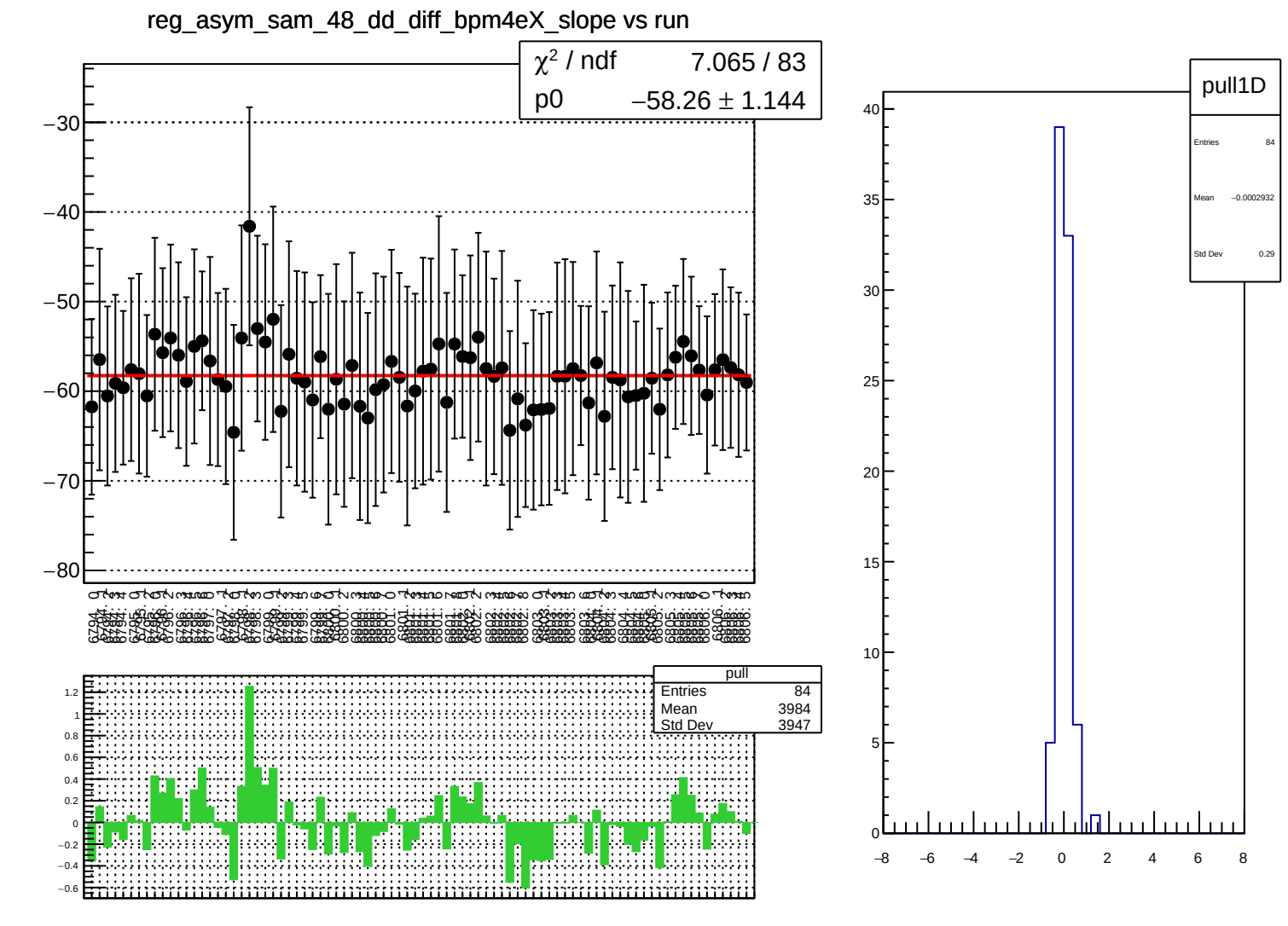

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.92 / 83
p0 124.9 ± 0.9071
pull
Entries 84
Mean 41.71
Std Dev 65.7
pull1D
Entries 84
Mean −0.01756
Std Dev 0.4988

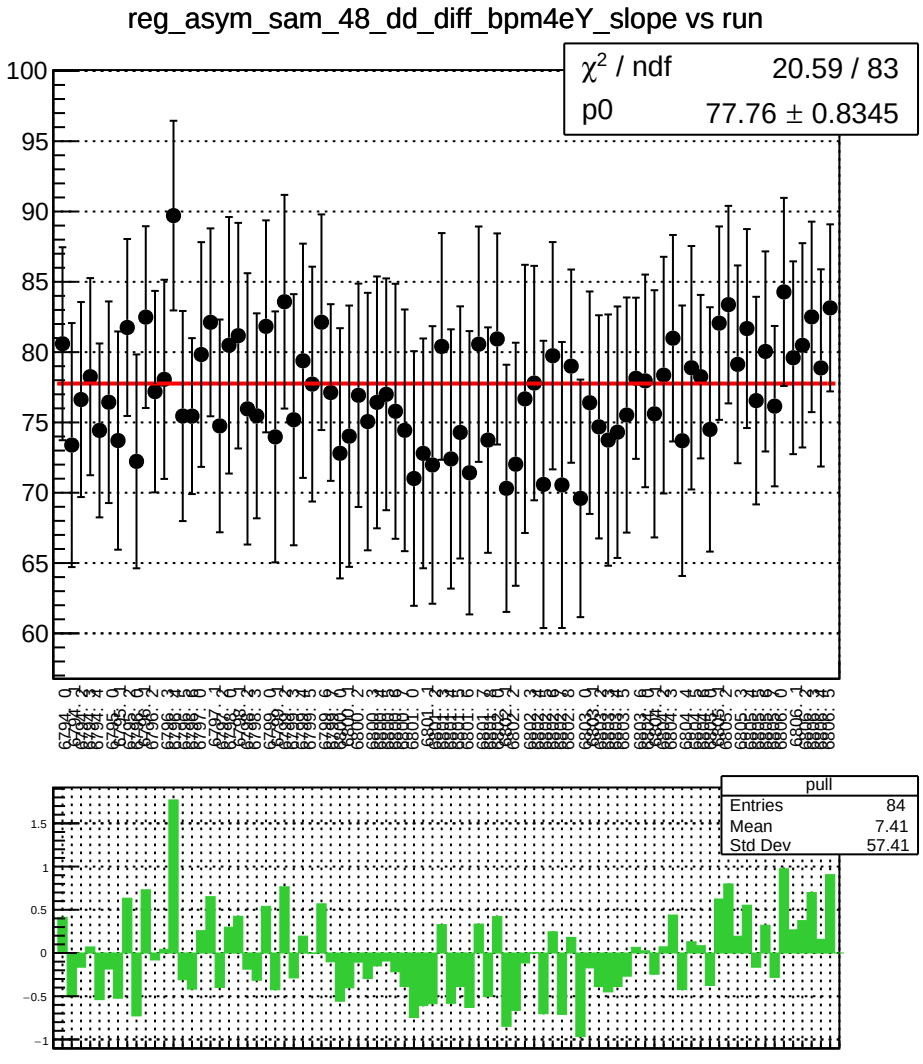

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 31.22 / 83
p0 0.07222 ± 0.05348
pull
Entries 84
Mean −284.1
Std Dev 359.3
pull1D
Entries 84
Mean 0.0108
Std Dev 0.6096

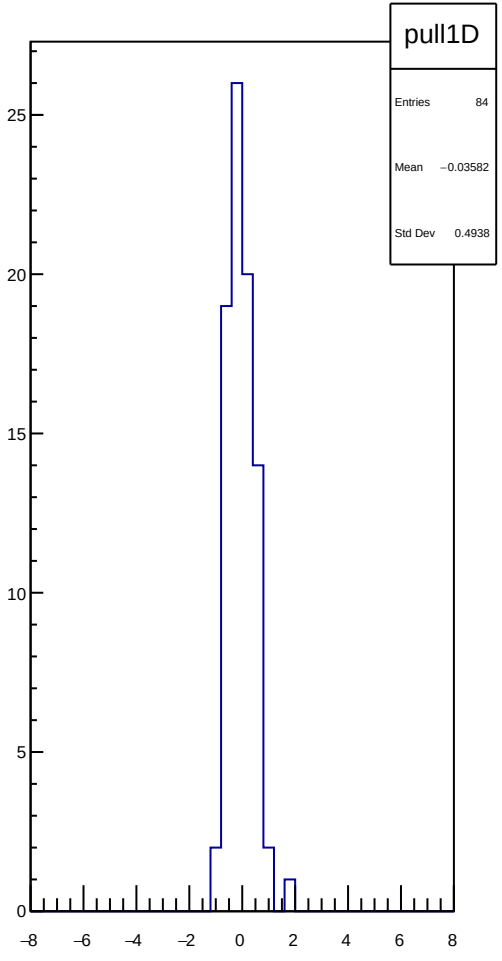

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 5.186 / 83
p0 −17.61 ± 1.221
pull
Entries 84
Mean −440.9
Std Dev 477.7
pull1D
Entries 84
Mean −0.001575
Std Dev 0.2485

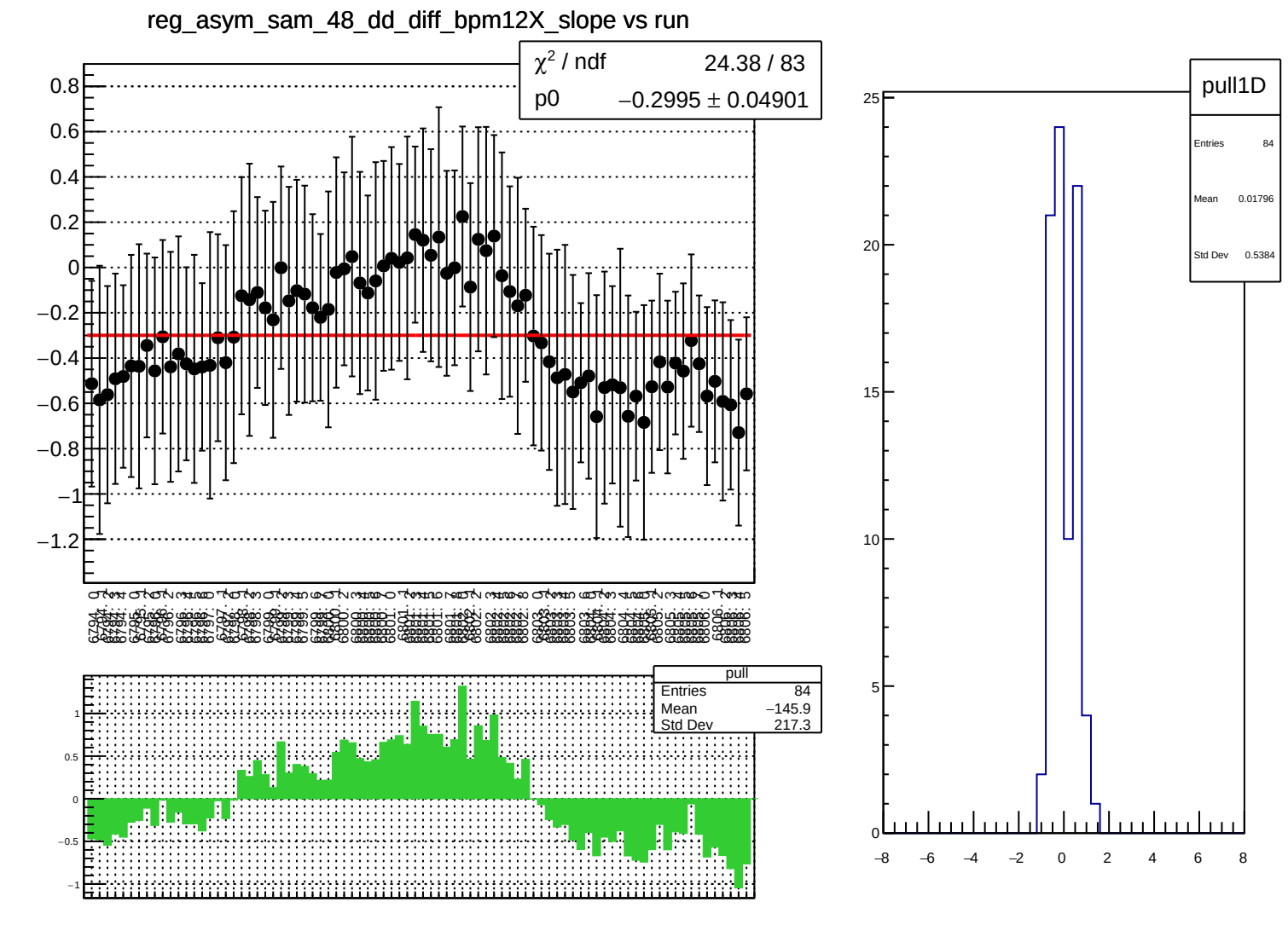

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.59 / 83
p0 29.65 ± 0.6025
pull
Entries 84
Mean 47.78
Std Dev 52.41

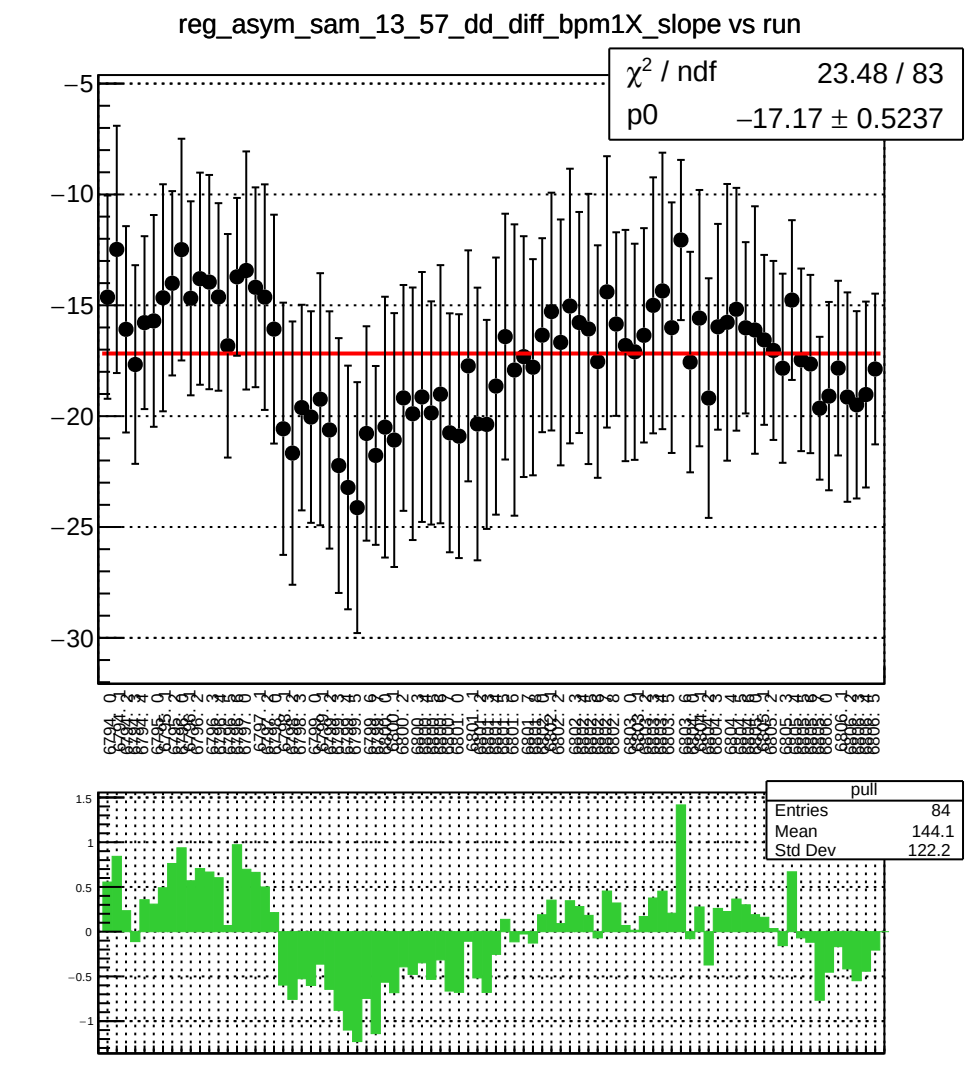

pull1D
Entries 84
Mean 0.02239
Std Dev 0.4571

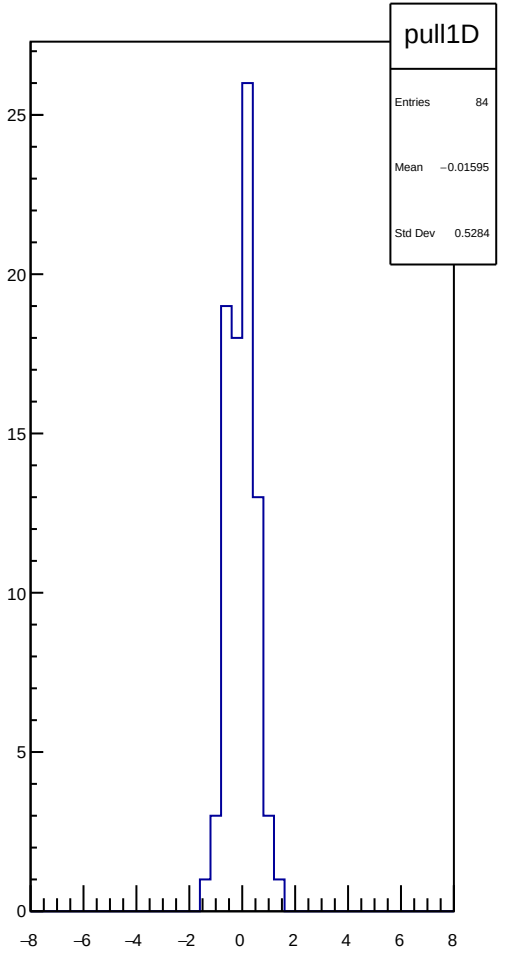

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.065 / 83
p0 −58.26 ± 1.144
pull
Entries 84
Mean 3984
Std Dev 3947
pull1D
Entries 84
Mean −0.0002932
Std Dev 0.29

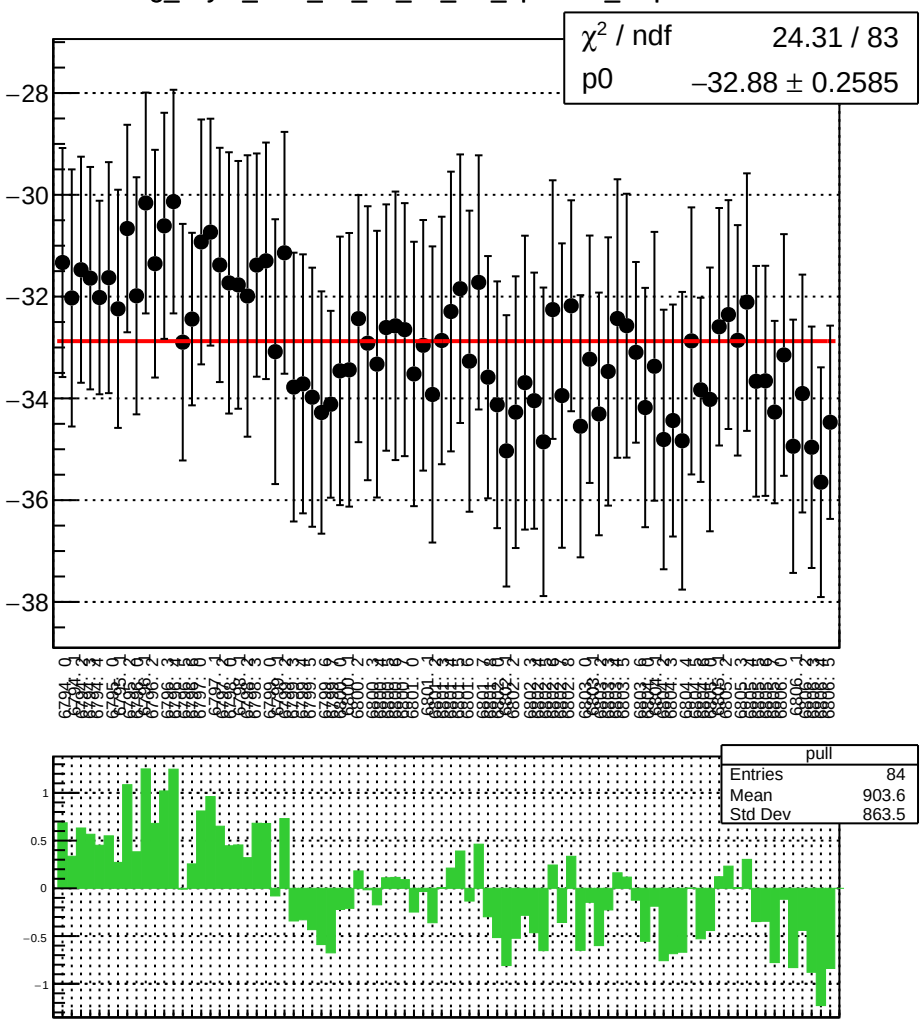

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.59 / 83
p0 77.76 ± 0.8345
pull
Entries 84
Mean 7.41
Std Dev 57.41

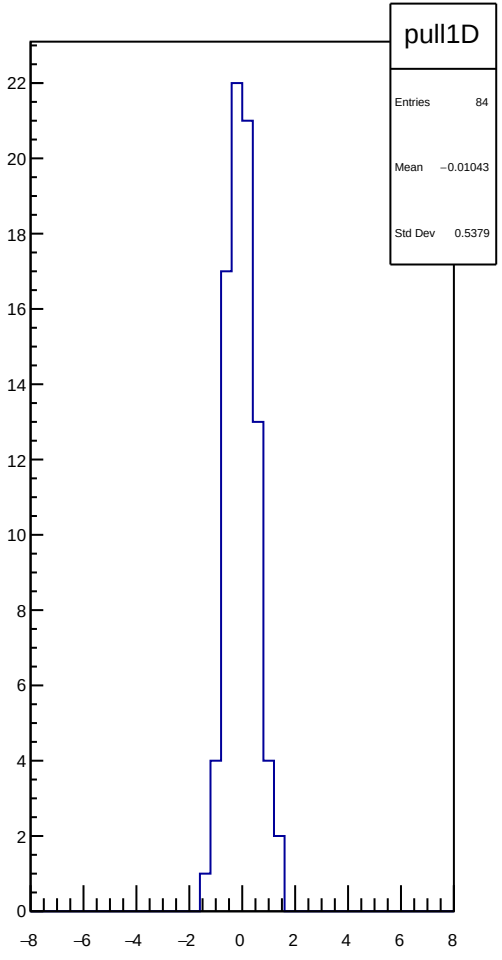

pull1D
Entries 84
Mean −0.03582
Std Dev 0.4938

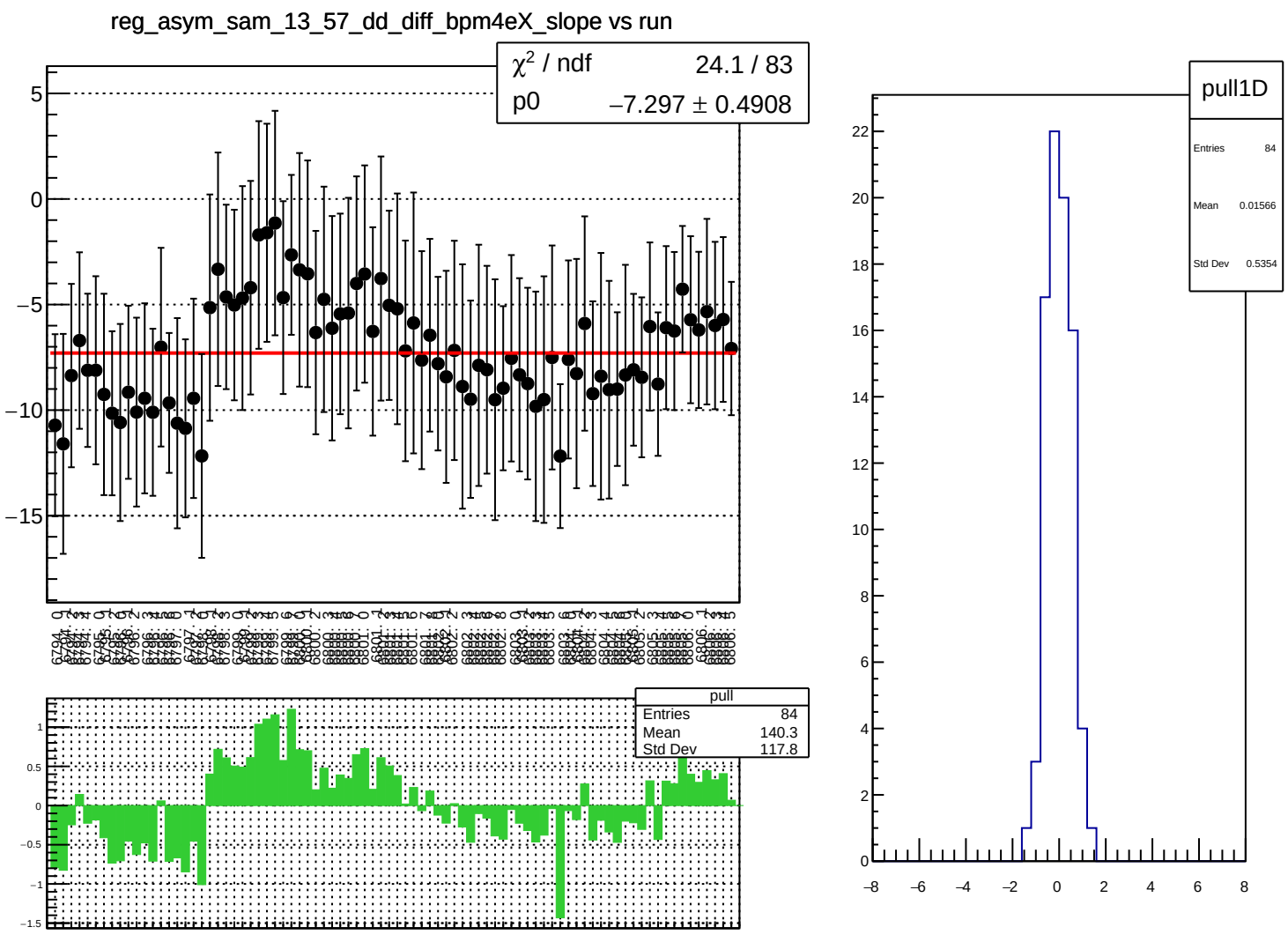

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 24.38 / 83
p0 −0.2995 ± 0.04901
pull
Entries 84
Mean −145.9
Std Dev 217.3
pull1D
Entries 84
Mean 0.01796
Std Dev 0.5384

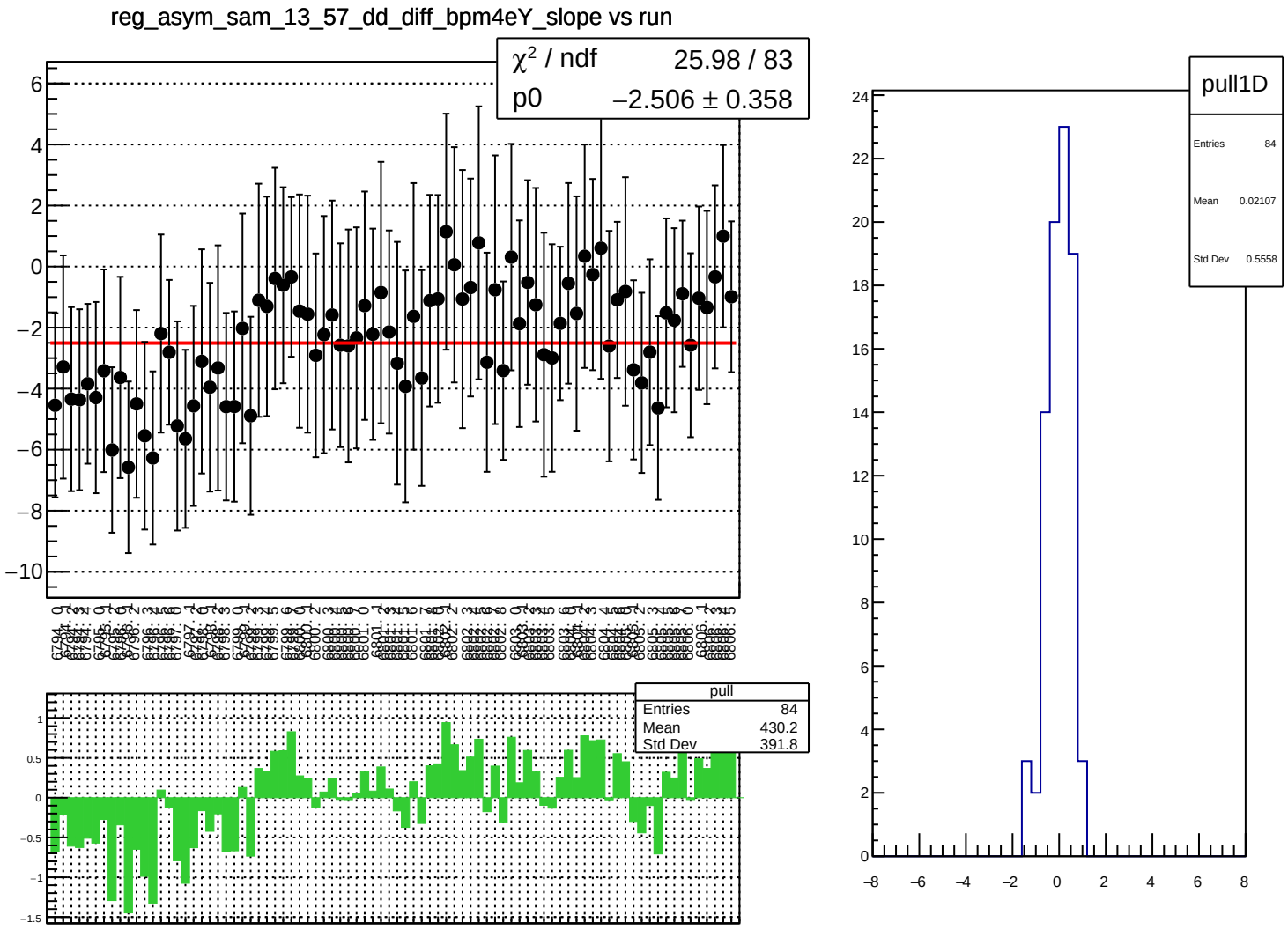

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 23.48 / 83
p0 −17.17 ± 0.5237
pull
Entries 84
Mean 144.1
Std Dev 122.2

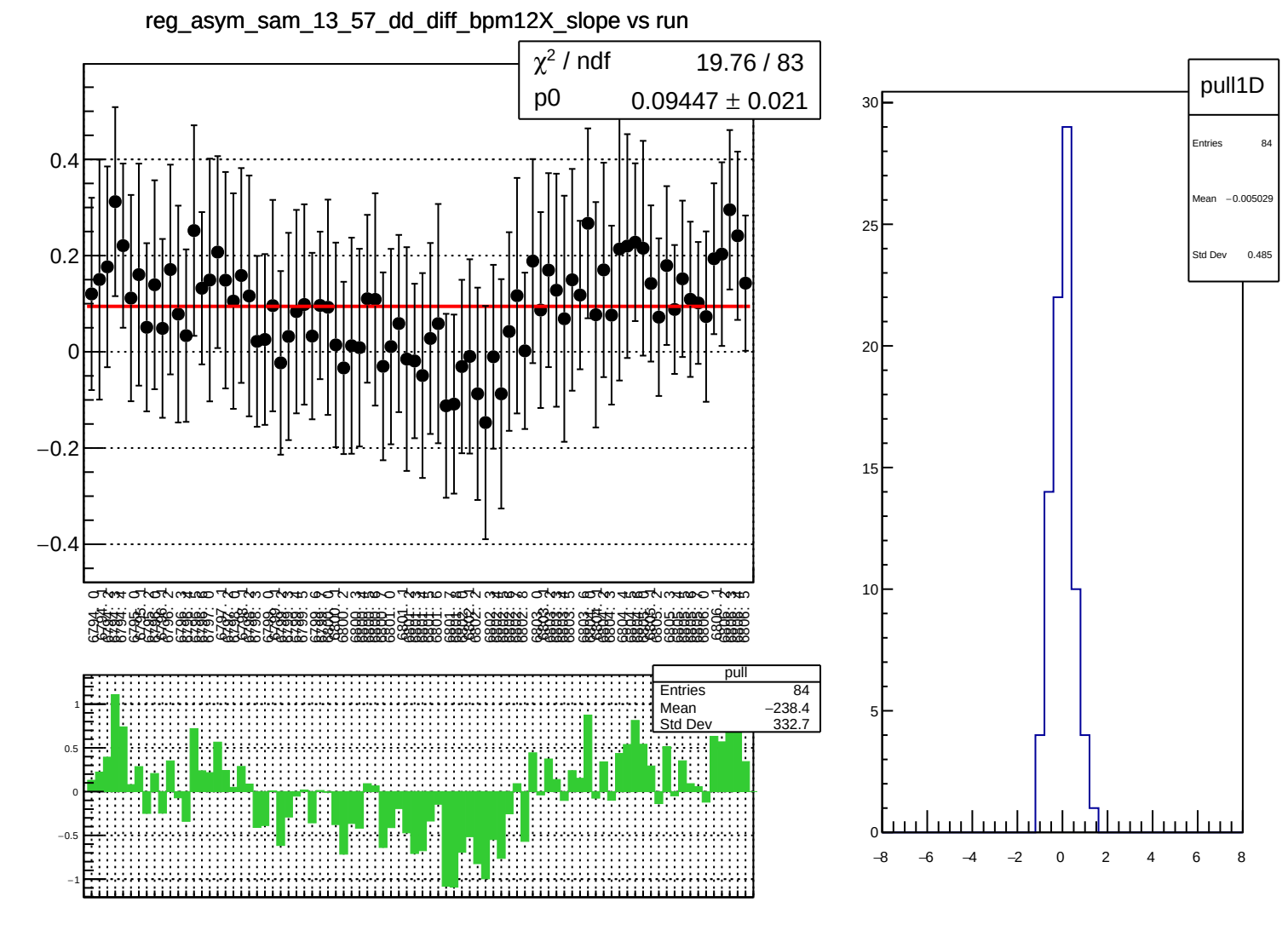

pull1D
Entries 84
Mean −0.01595
Std Dev 0.5284

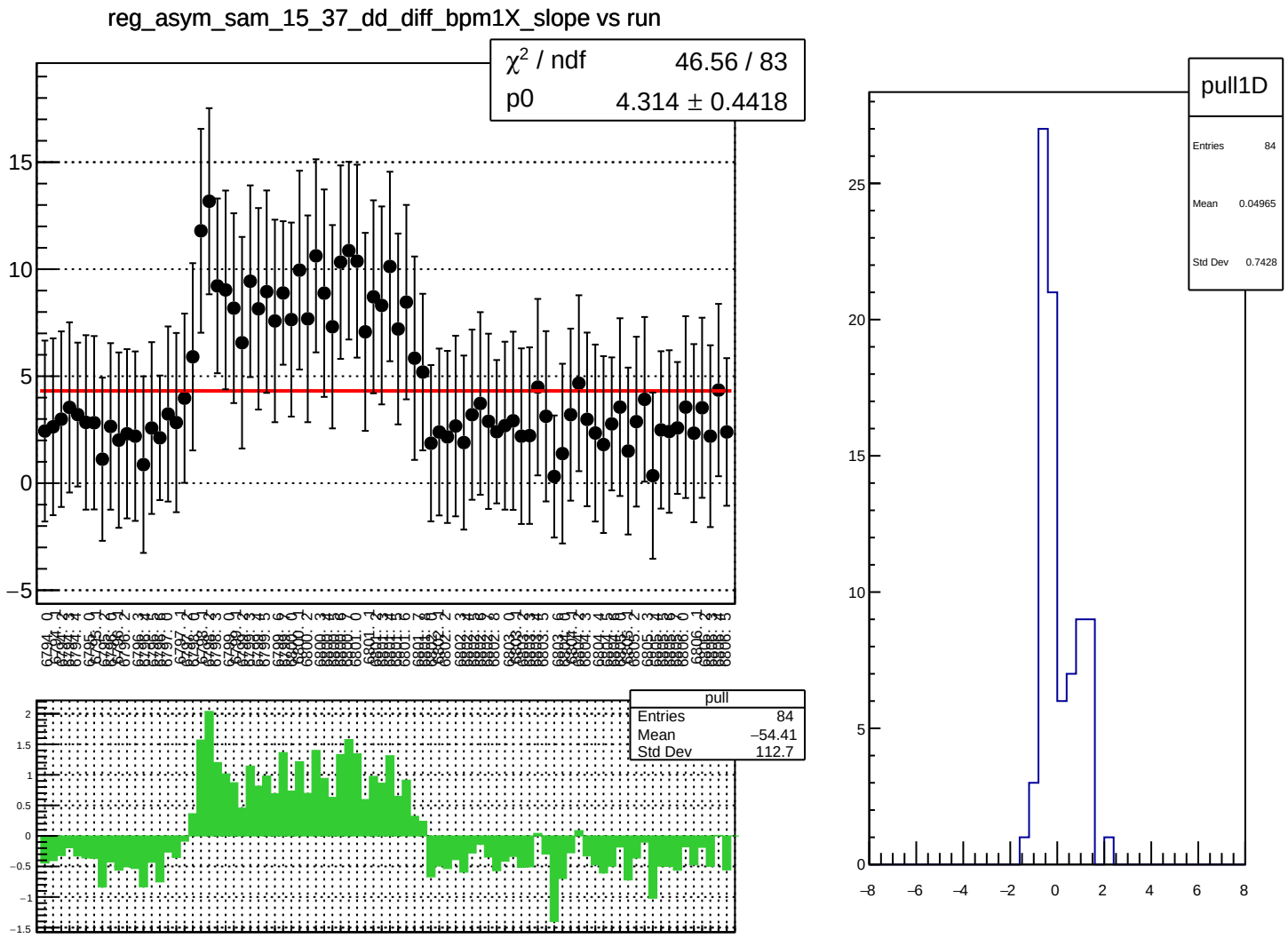

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.31 / 83
p0 −32.88 ± 0.2585
pull
Entries 84
Mean 903.6
Std Dev 863.5

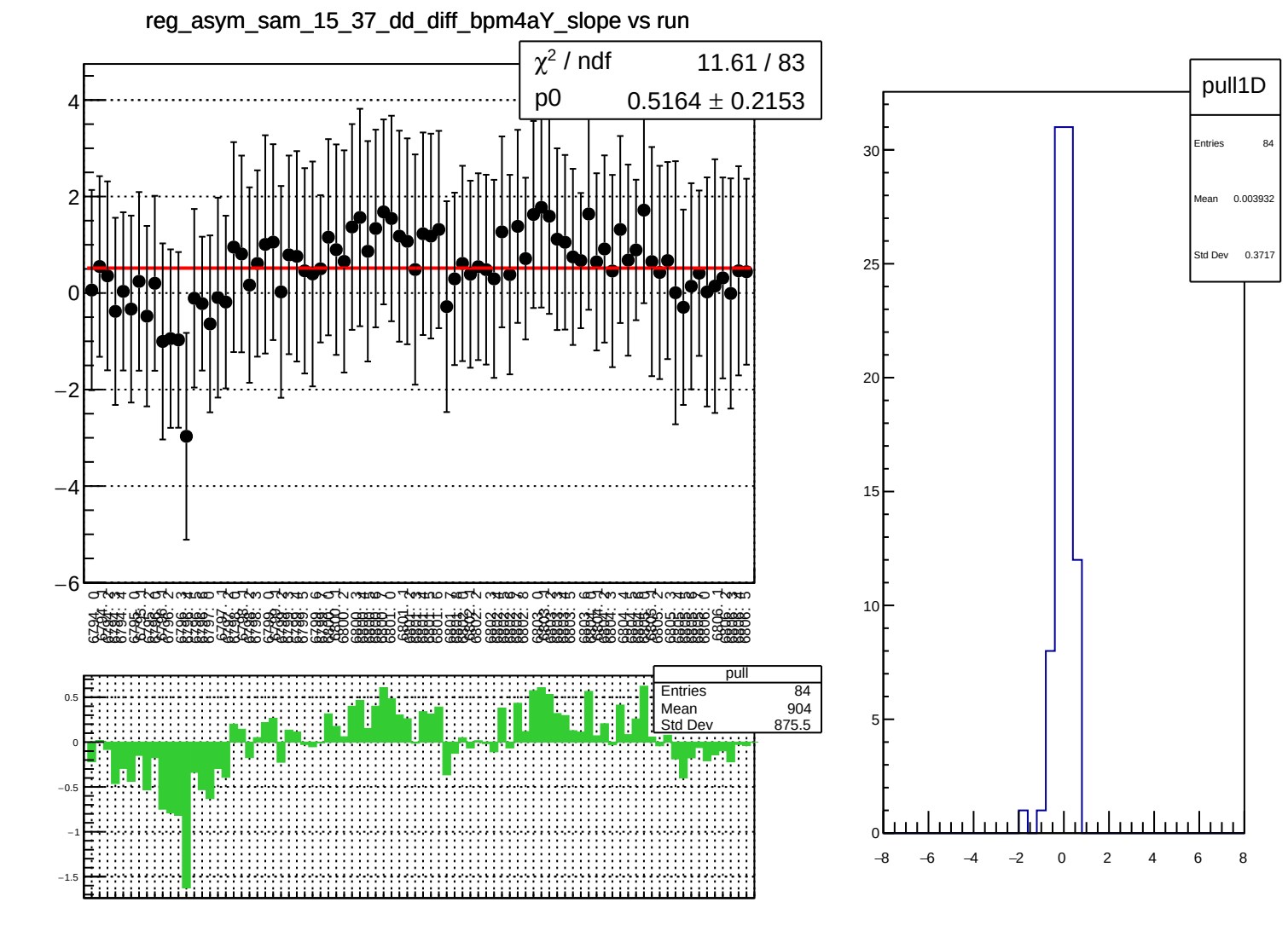

pull1D
Entries 84
Mean −0.01043
Std Dev 0.5379

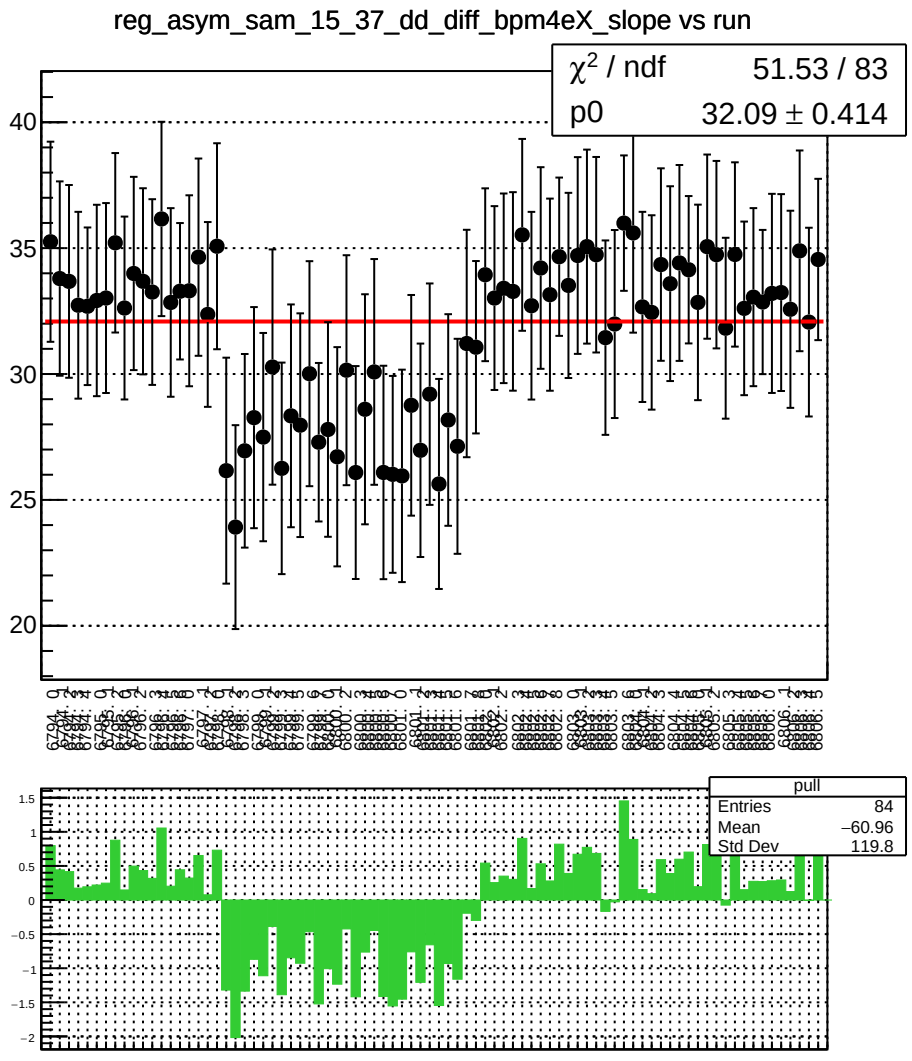

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.1 / 83
p0 −7.297 ± 0.4908
pull
Entries 84
Mean 140.3
Std Dev 117.8
pull1D
Entries 84
Mean 0.01566
Std Dev 0.5354

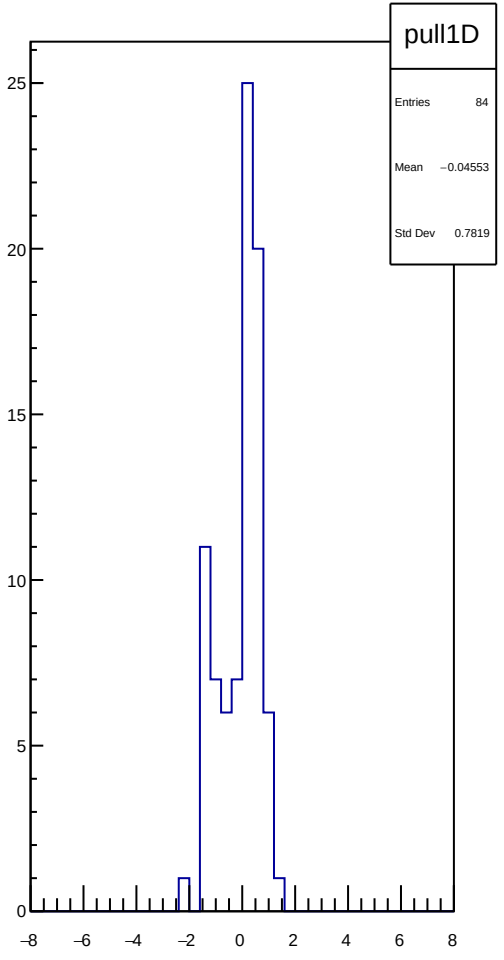

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.98 / 83
p0 −2.506 ± 0.358
pull
Entries 84
Mean 430.2
Std Dev 391.8
pull1D
Entries 84
Mean 0.02107
Std Dev 0.5558

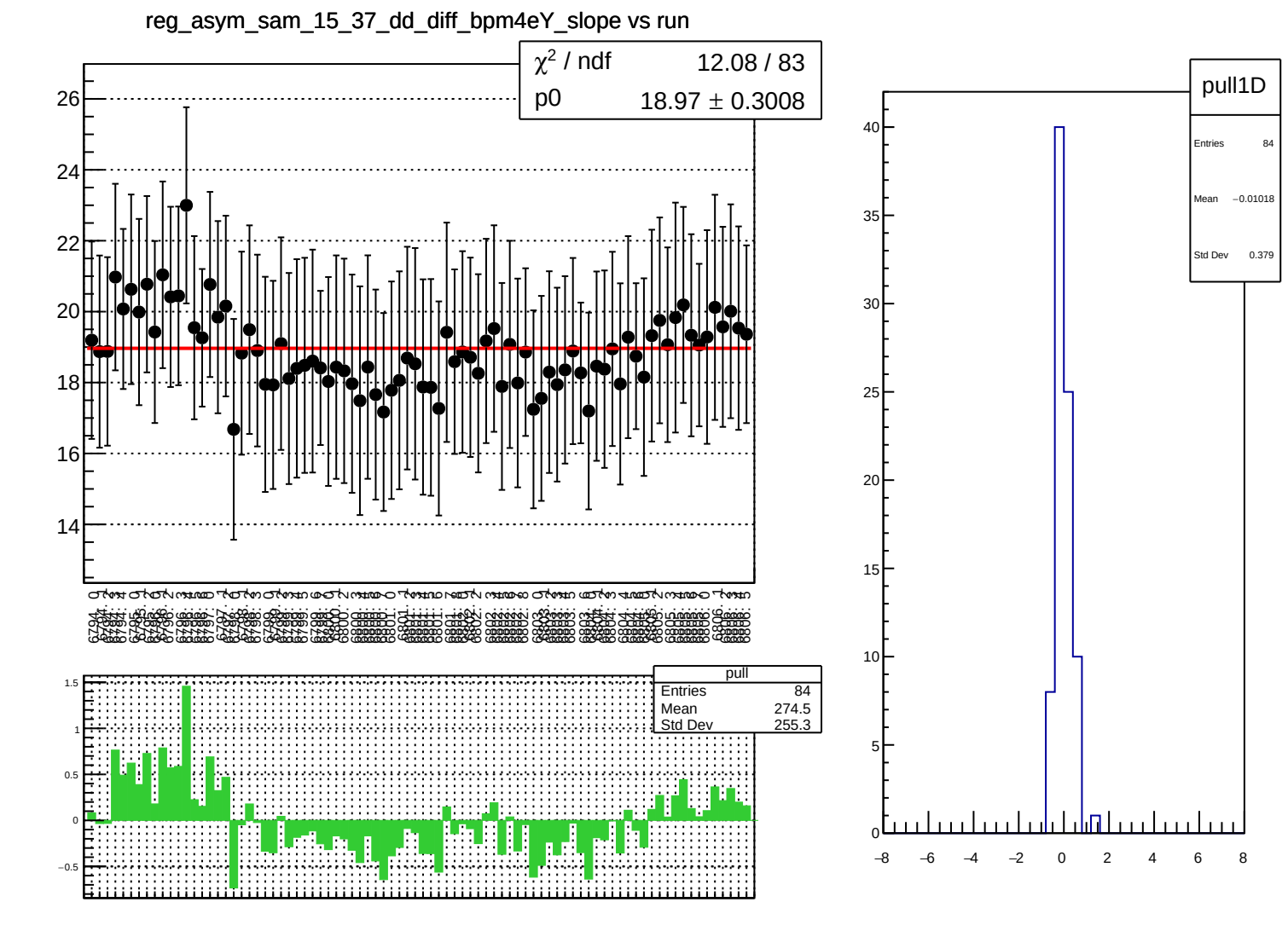

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 19.76 / 83
p0 0.09447 ± 0.021
pull
Entries 84
Mean −238.4
Std Dev 332.7
pull1D
Entries 84
Mean −0.005029
Std Dev 0.485

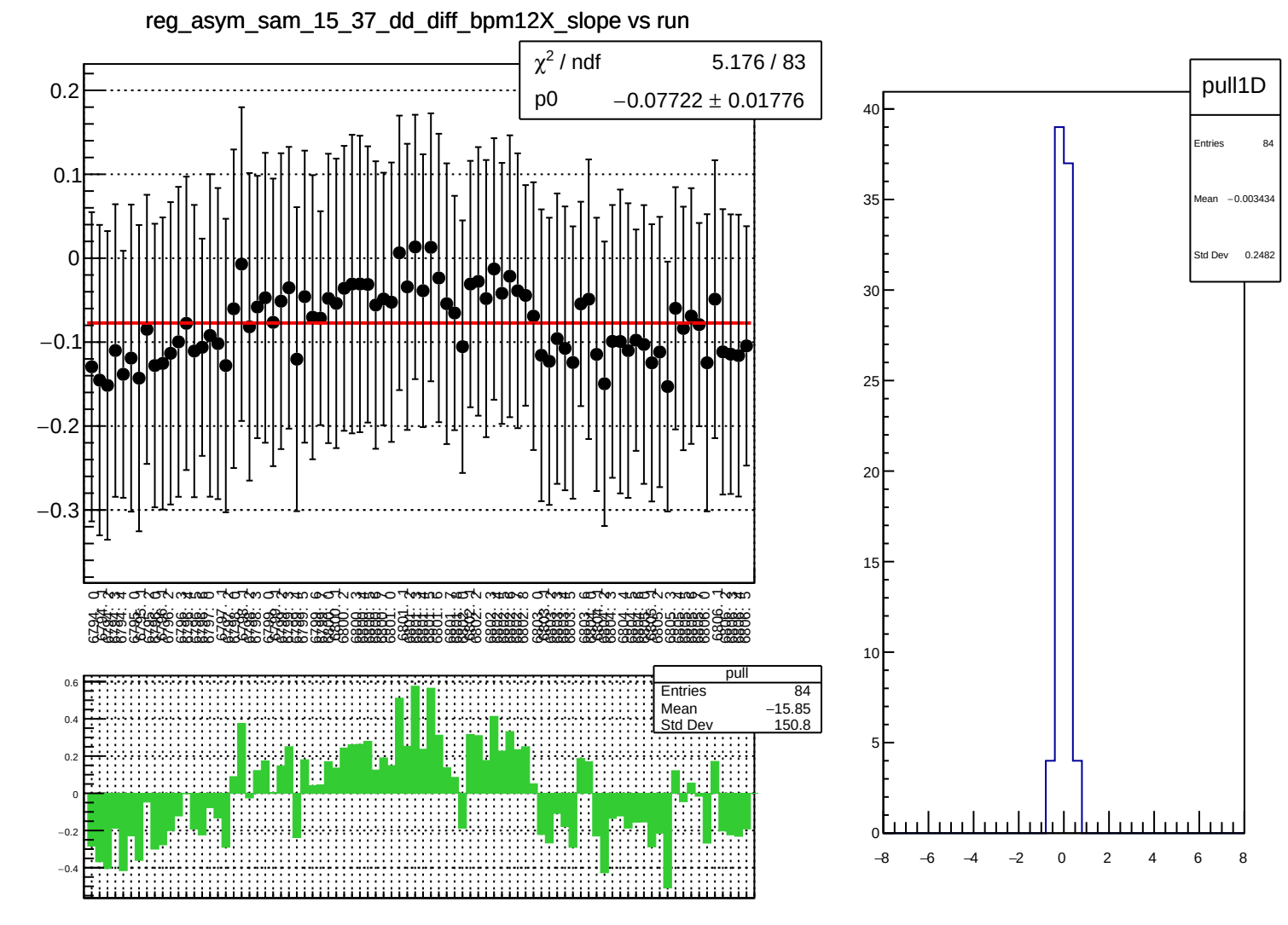

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 46.56 / 83
p0 4.314 ± 0.4418
pull
Entries 84
Mean −54.41
Std Dev 112.7
pull1D
Entries 84
Mean 0.04965
Std Dev 0.7428

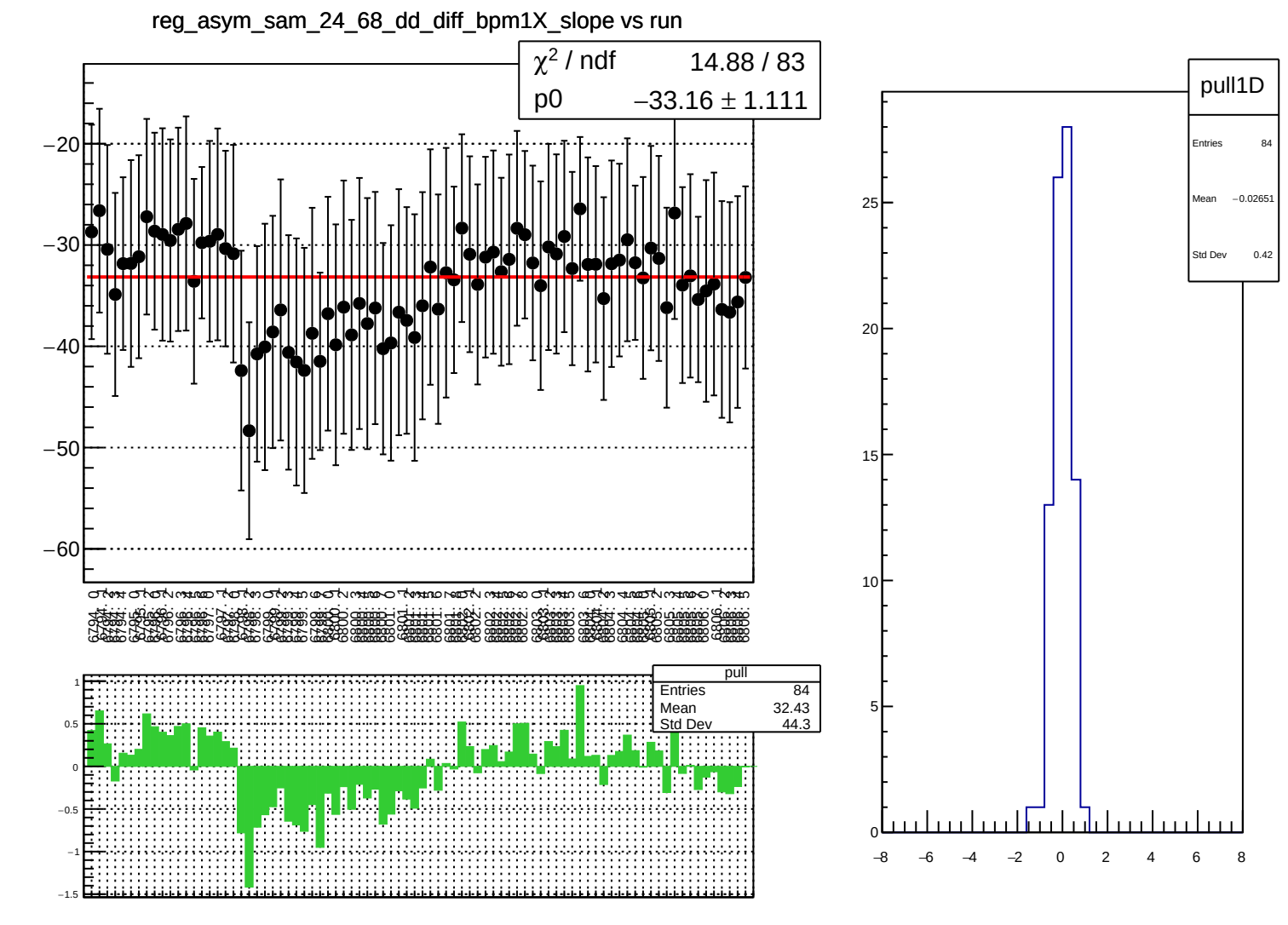

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.61 / 83
p0 0.5164 ± 0.2153
pull
Entries 84
Mean 904
Std Dev 875.5
pull1D
Entries 84
Mean 0.003932
Std Dev 0.3717

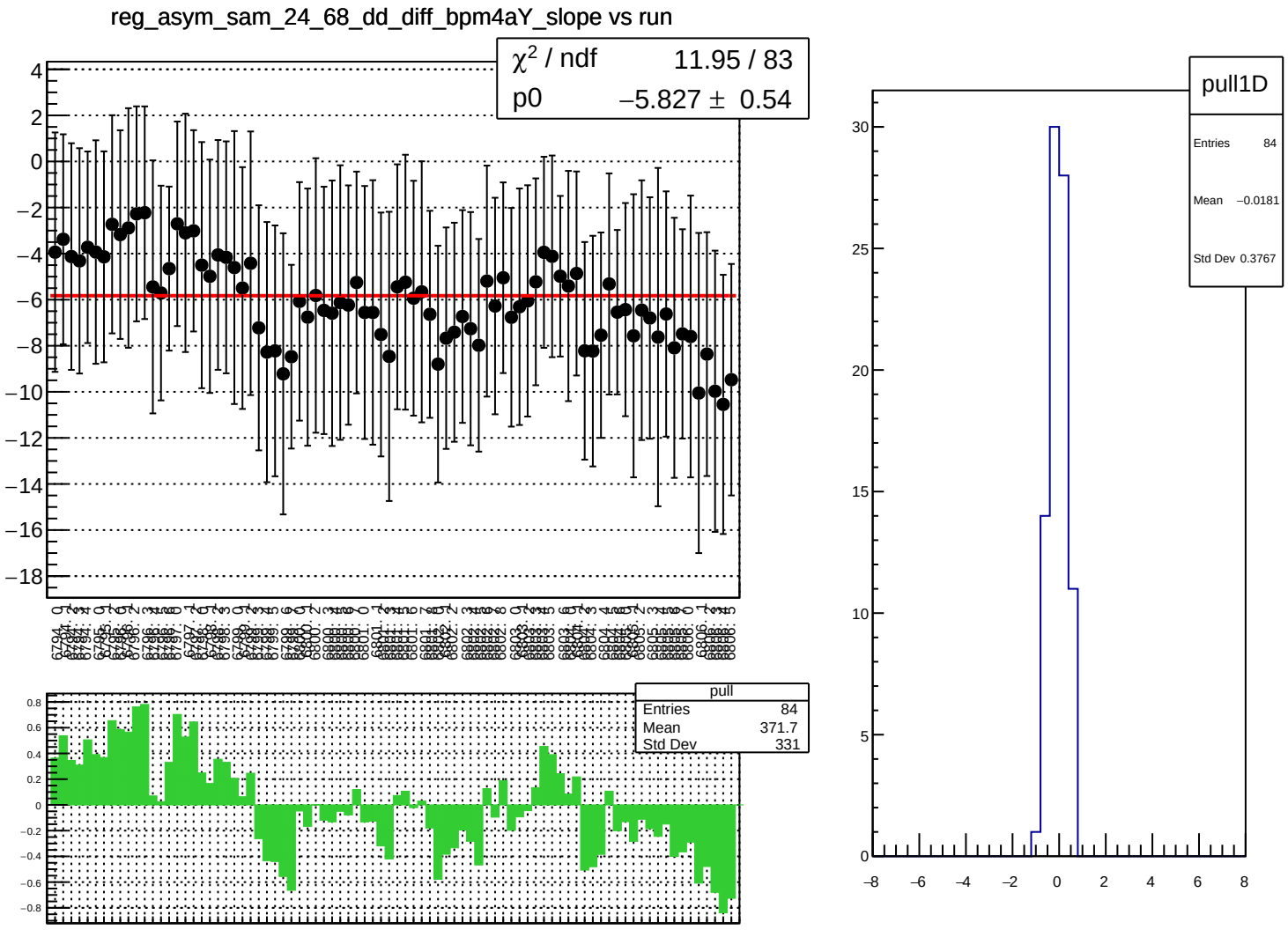

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.53 / 83
p0 32.09 ± 0.414
pull
Entries 84
Mean −60.96
Std Dev 119.8

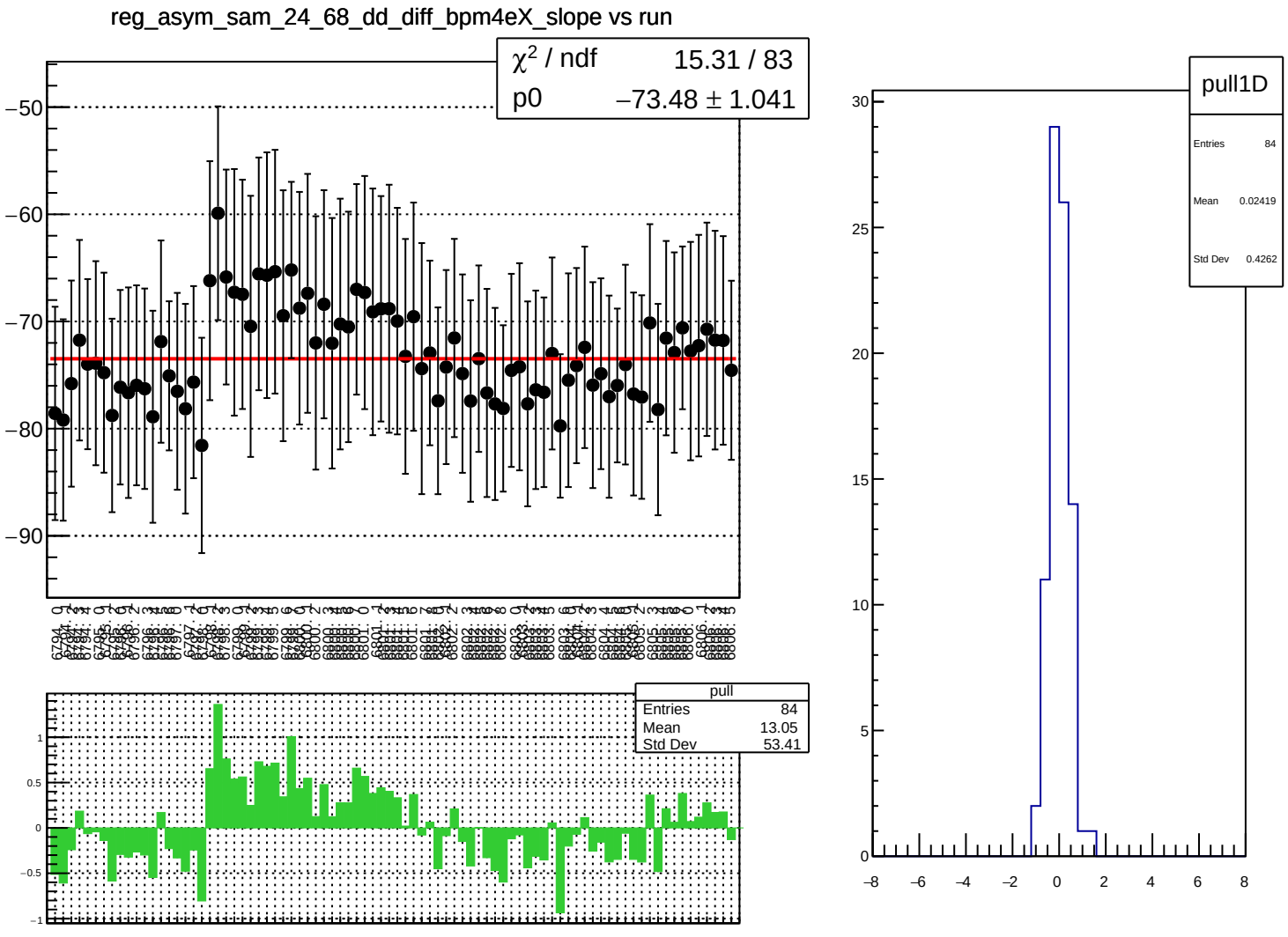

pull1D
Entries 84
Mean −0.04553
Std Dev 0.7819

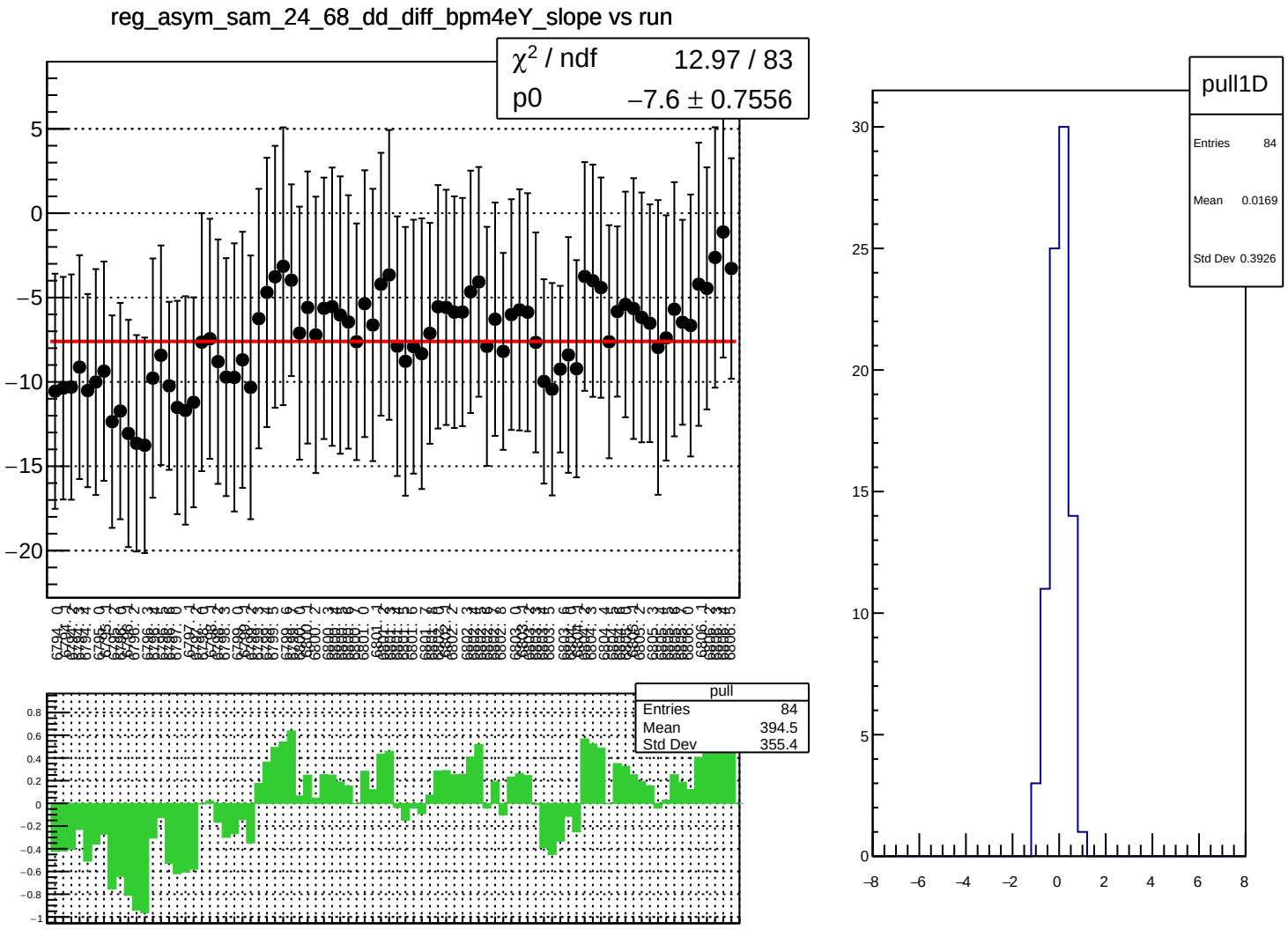

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.08 / 83
p0 18.97 ± 0.3008
pull
Entries 84
Mean 274.5
Std Dev 255.3
pull1D
Entries 84
Mean −0.01018
Std Dev 0.379

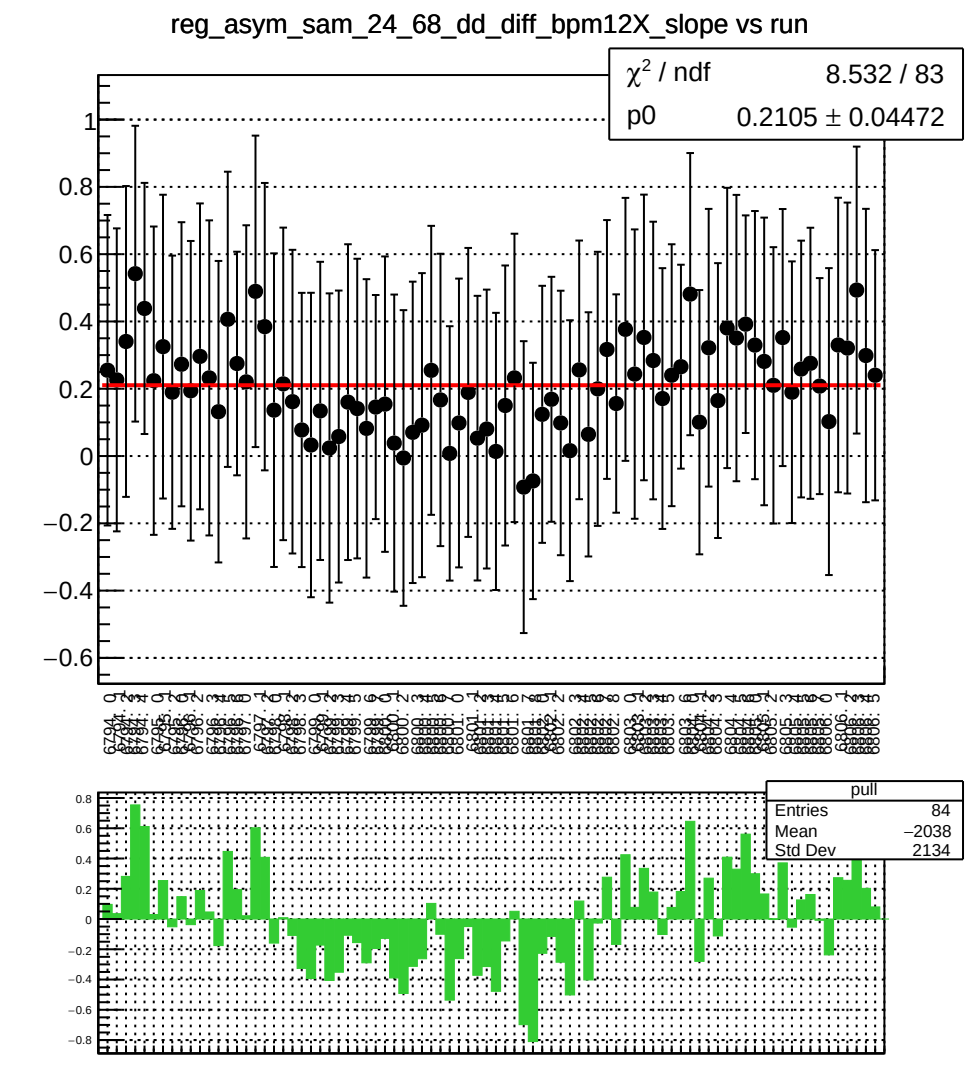

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 5.176 / 83
p0 −0.07722 ± 0.01776
pull
Entries 84
Mean −15.85
Std Dev 150.8
pull1D
Entries 84
Mean −0.003434
Std Dev 0.2482

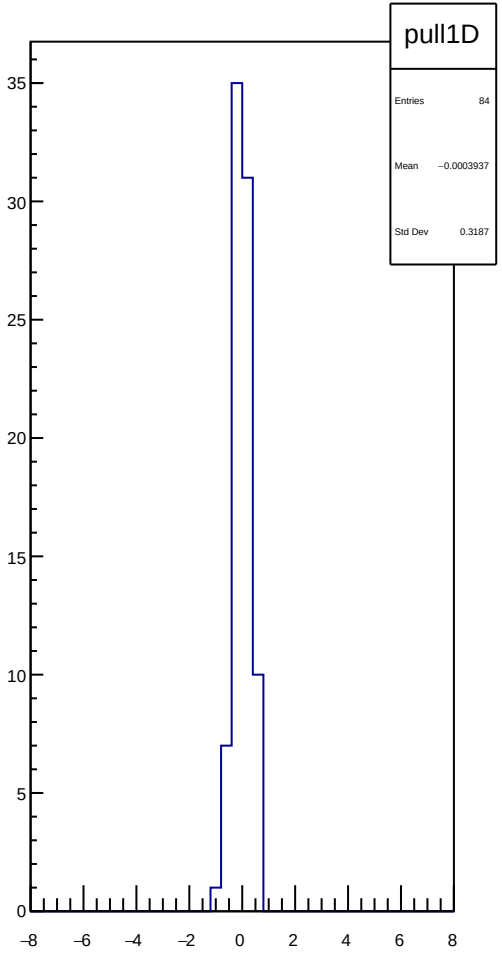

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 14.88 / 83
p0 −33.16 ± 1.111
pull
Entries 84
Mean 32.43
Std Dev 44.3
pull1D
Entries 84
Mean −0.02651
Std Dev 0.42

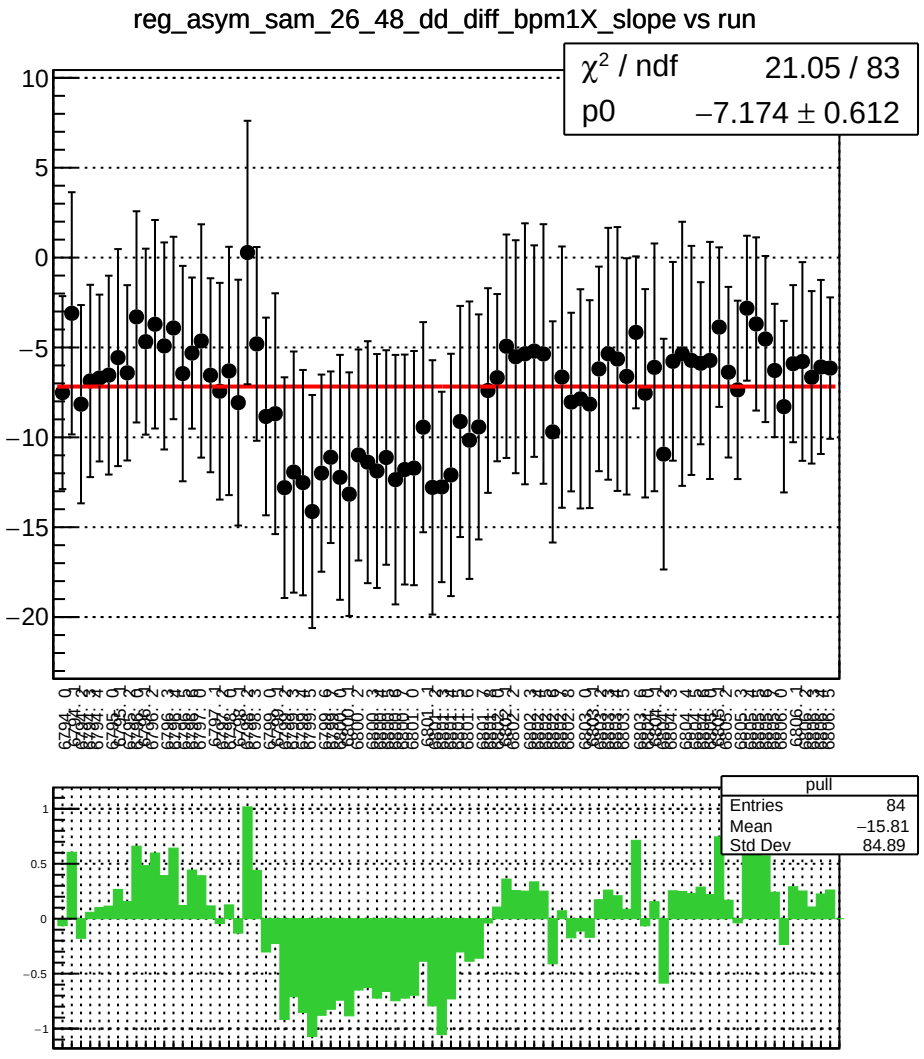

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.95 / 83
p0 −5.827 ± 0.54
pull
Entries 84
Mean 371.7
Std Dev 331
pull1D
Entries 84
Mean −0.0181
Std Dev 0.3767

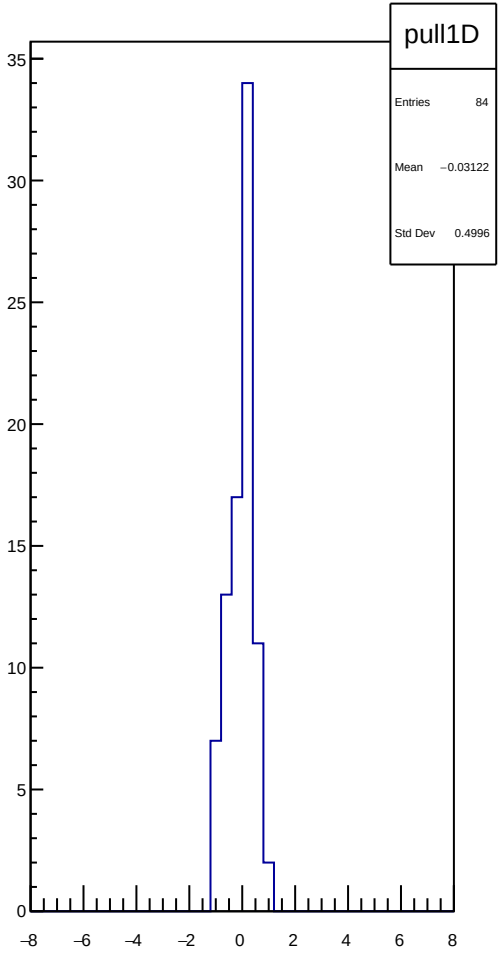

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.31 / 83
p0 −73.48 ± 1.041
pull
Entries 84
Mean 13.05
Std Dev 53.41
pull1D
Entries 84
Mean 0.02419
Std Dev 0.4262

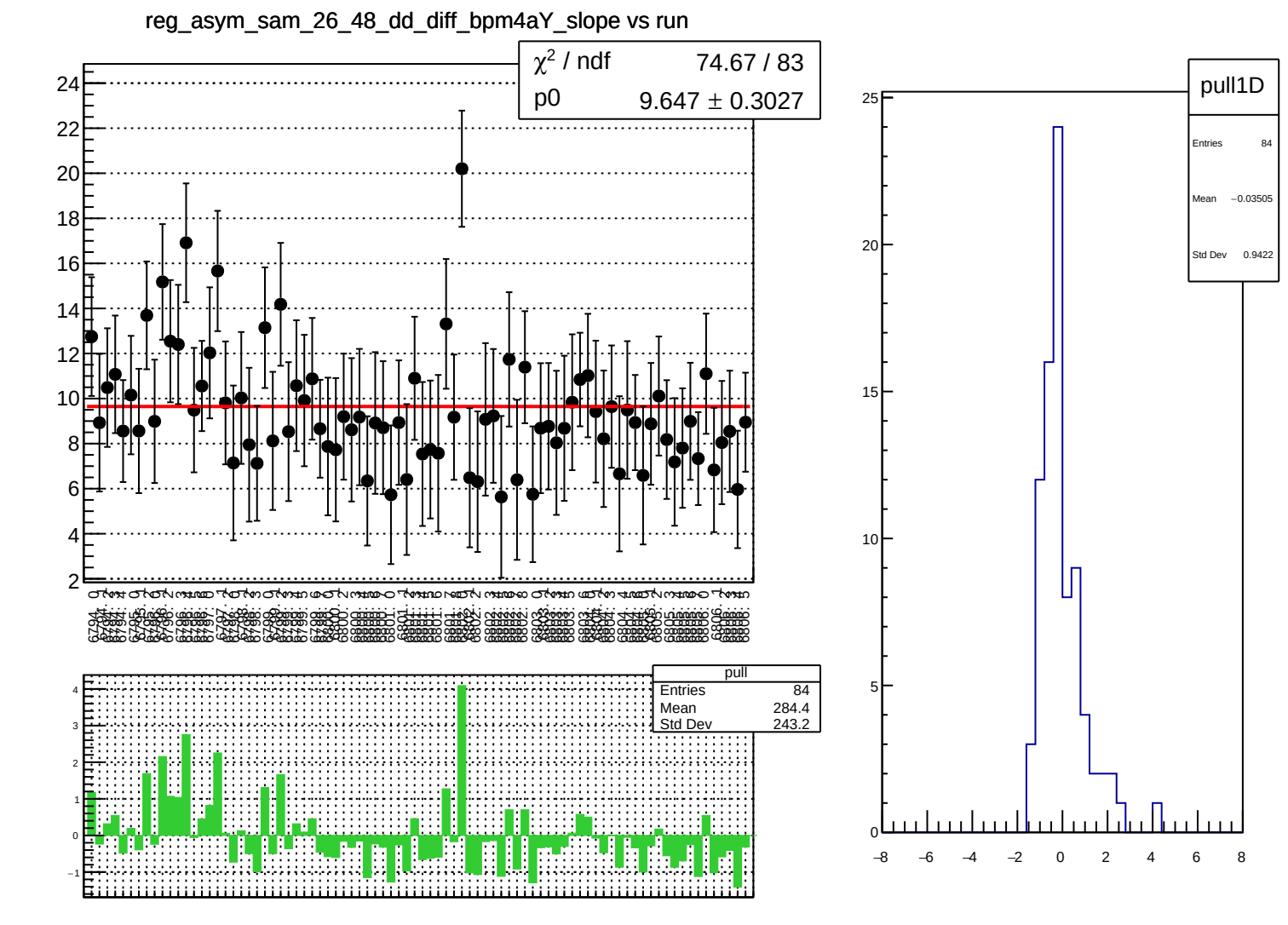

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.97 / 83
p0 −7.6 ± 0.7556
pull
Entries 84
Mean 394.5
Std Dev 355.4
pull1D
Entries 84
Mean 0.0169
Std Dev 0.3926

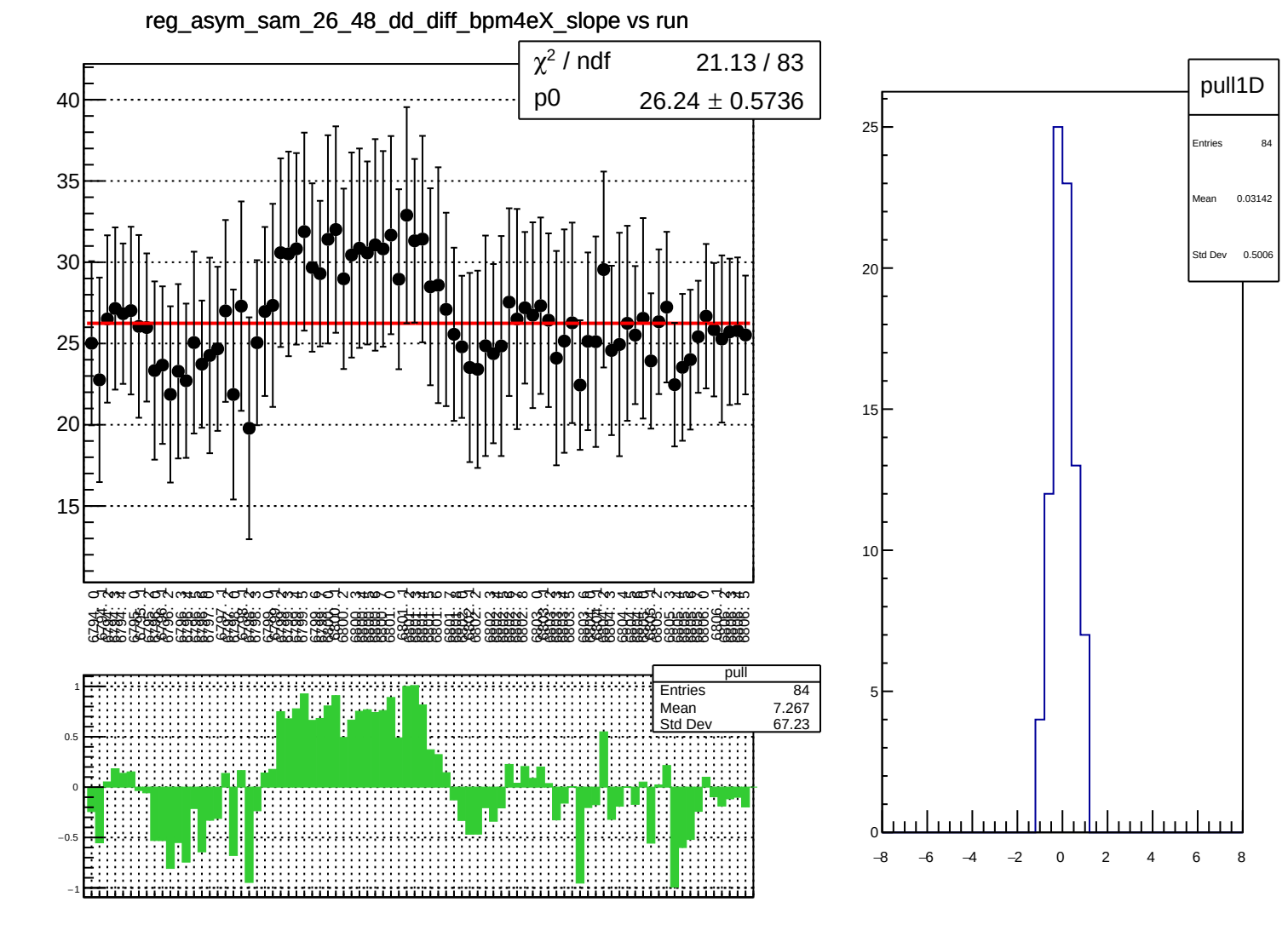

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 8.532 / 83
p0 0.2105 ± 0.04472
pull
Entries 84
Mean −2038
Std Dev 2134

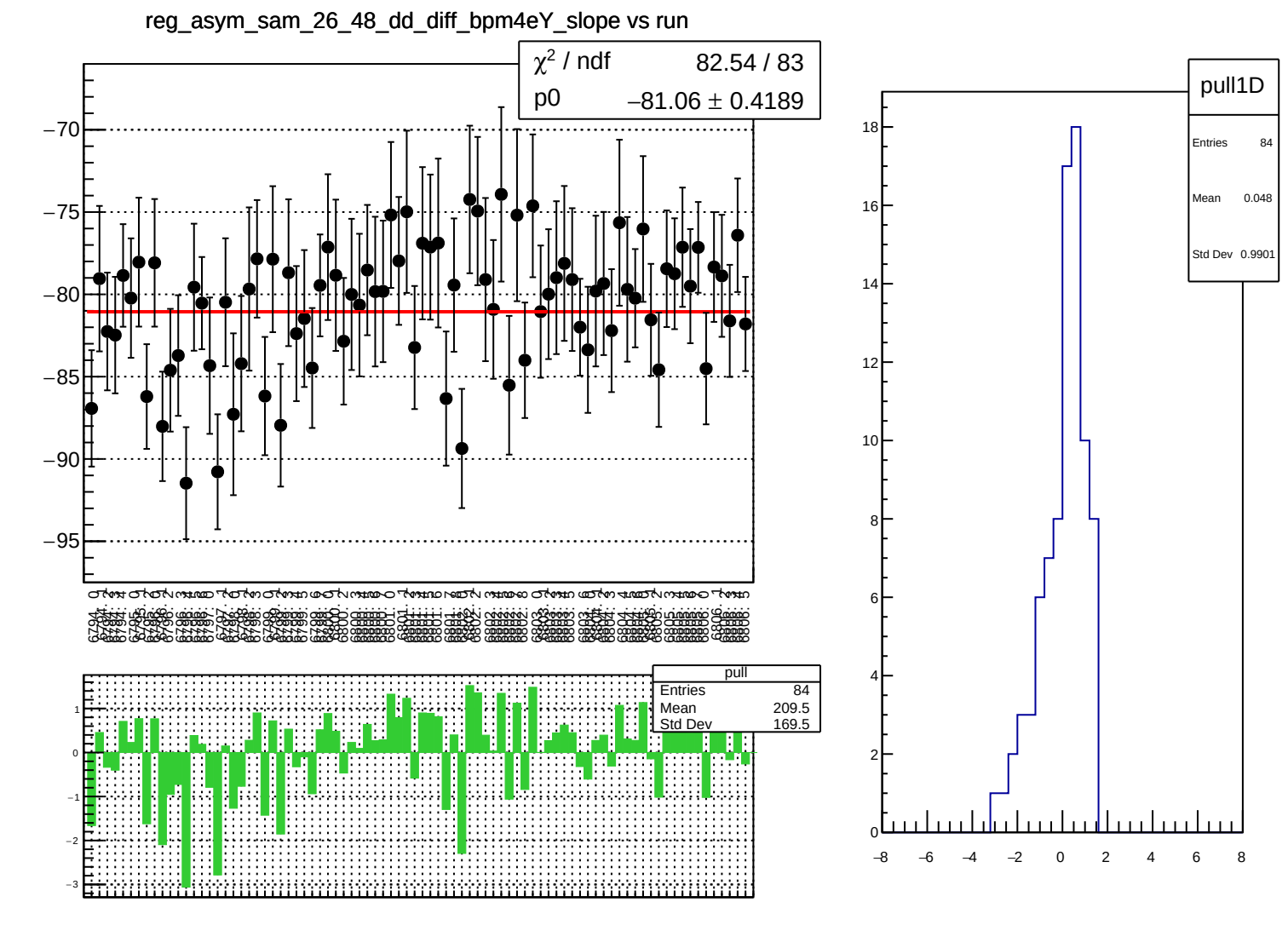

pull1D
Entries 84
Mean −0.0003937
Std Dev 0.3187

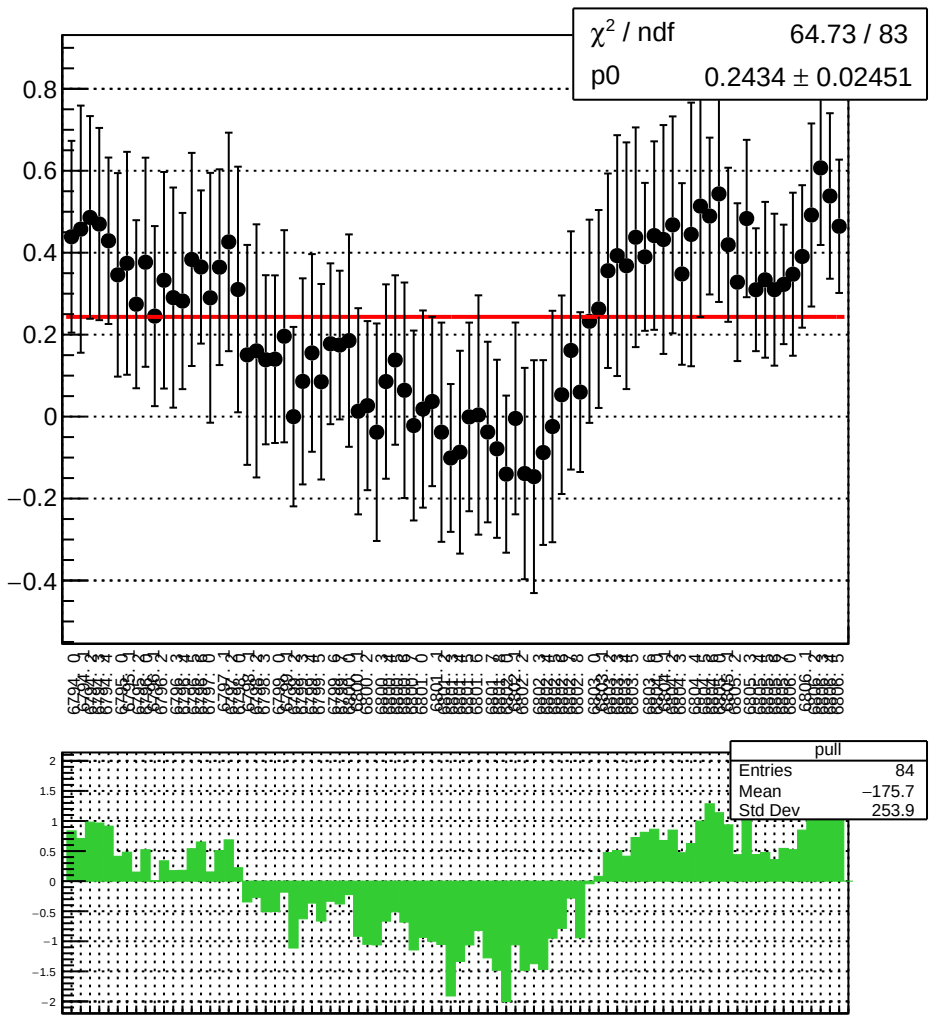

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 21.05 / 83
p0 −7.174 ± 0.612
pull
Entries 84
Mean −15.81
Std Dev 84.89

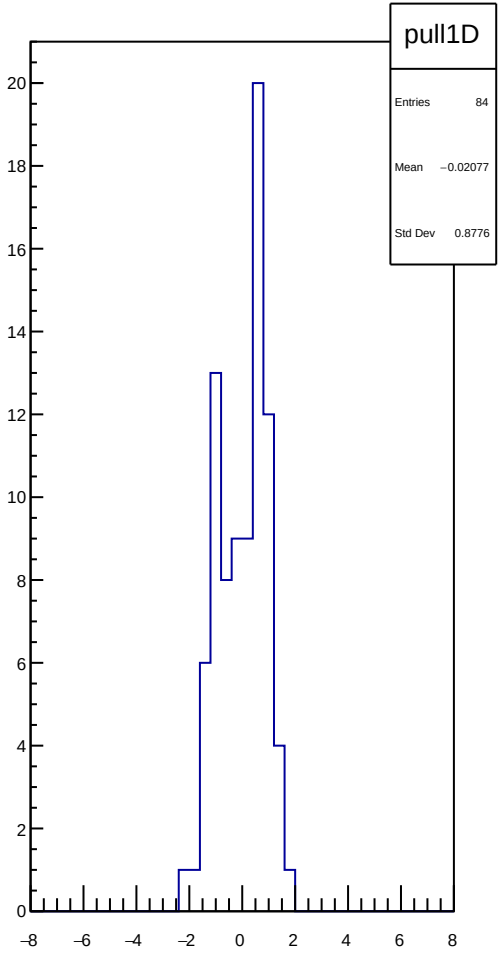

pull1D
Entries 84
Mean −0.03122
Std Dev 0.4996

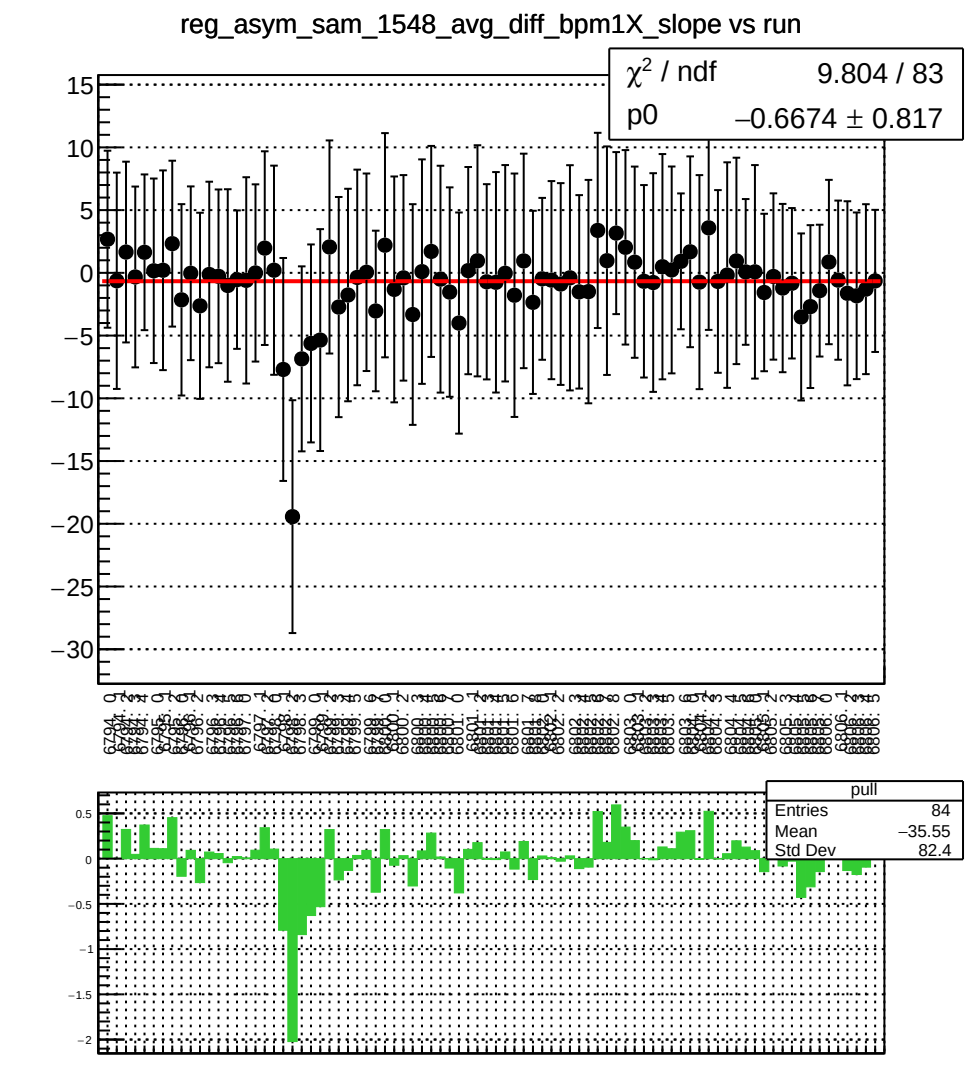

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 74.67 / 83
p0 9.647 ± 0.3027
pull
Entries 84
Mean 284.4
Std Dev 243.2
pull1D
Entries 84
Mean −0.03505
Std Dev 0.9422

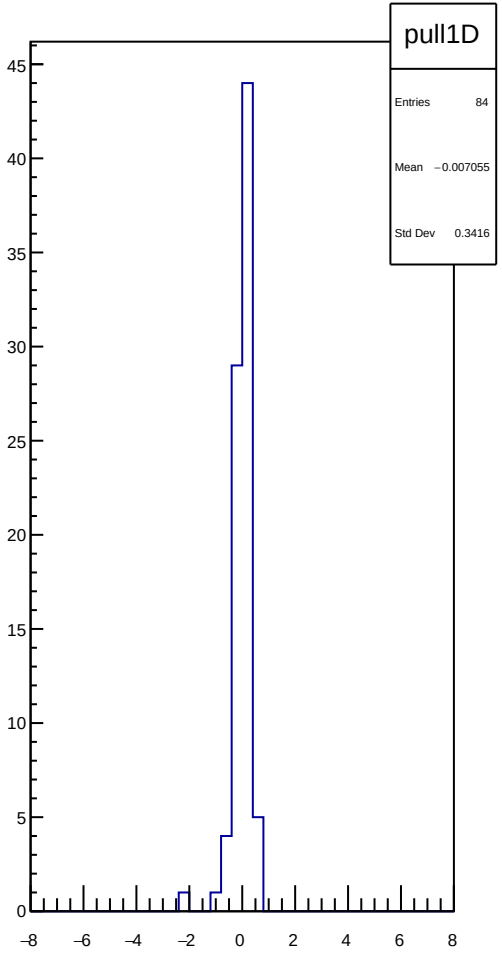

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.13 / 83
p0 26.24 ± 0.5736
pull
Entries 84
Mean 7.267
Std Dev 67.23
pull1D
Entries 84
Mean 0.03142
Std Dev 0.5006

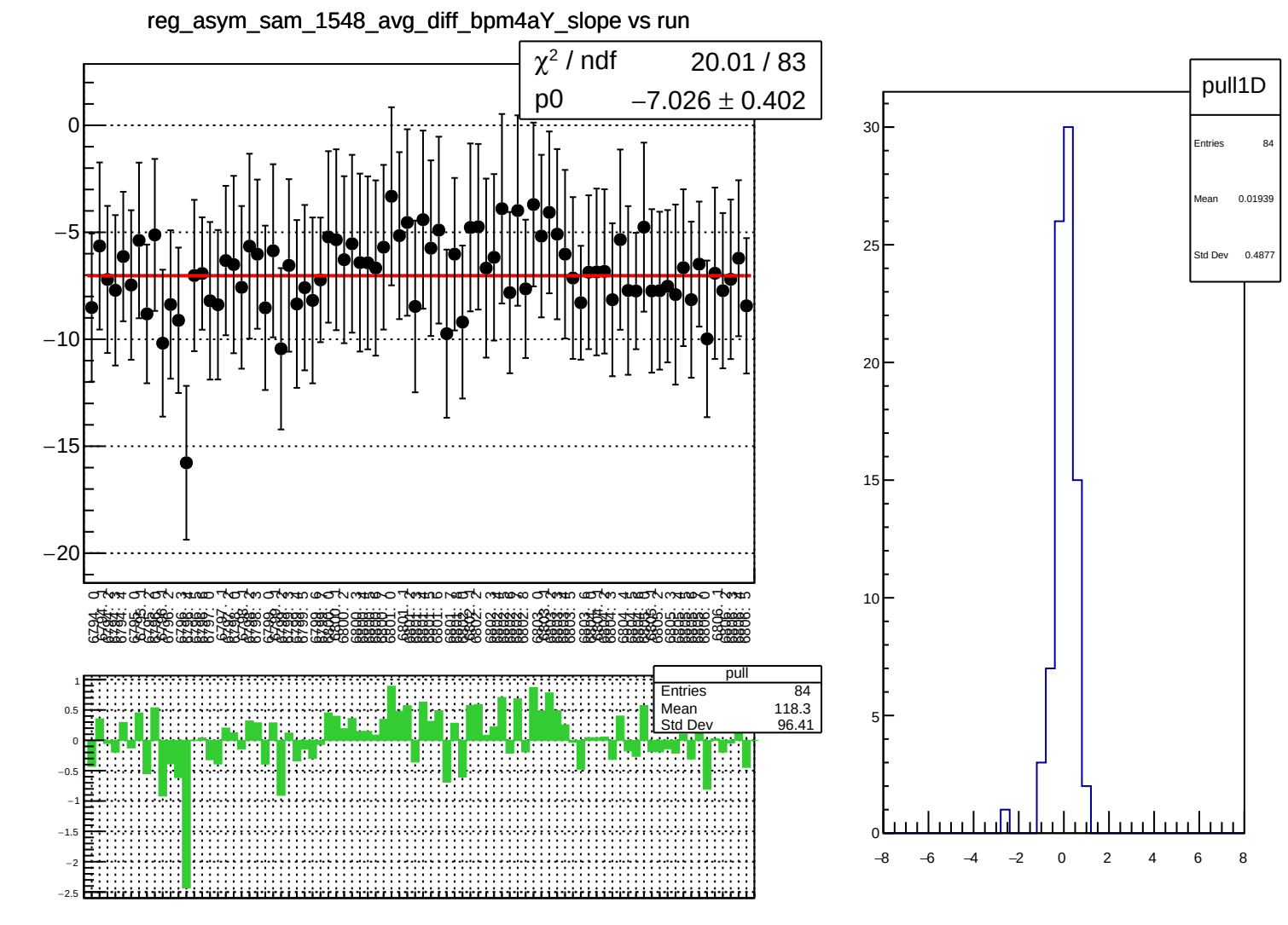

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.54 / 83
p0 −81.06 ± 0.4189
pull
Entries 84
Mean 209.5
Std Dev 169.5
pull1D
Entries 84
Mean 0.048
Std Dev 0.9901

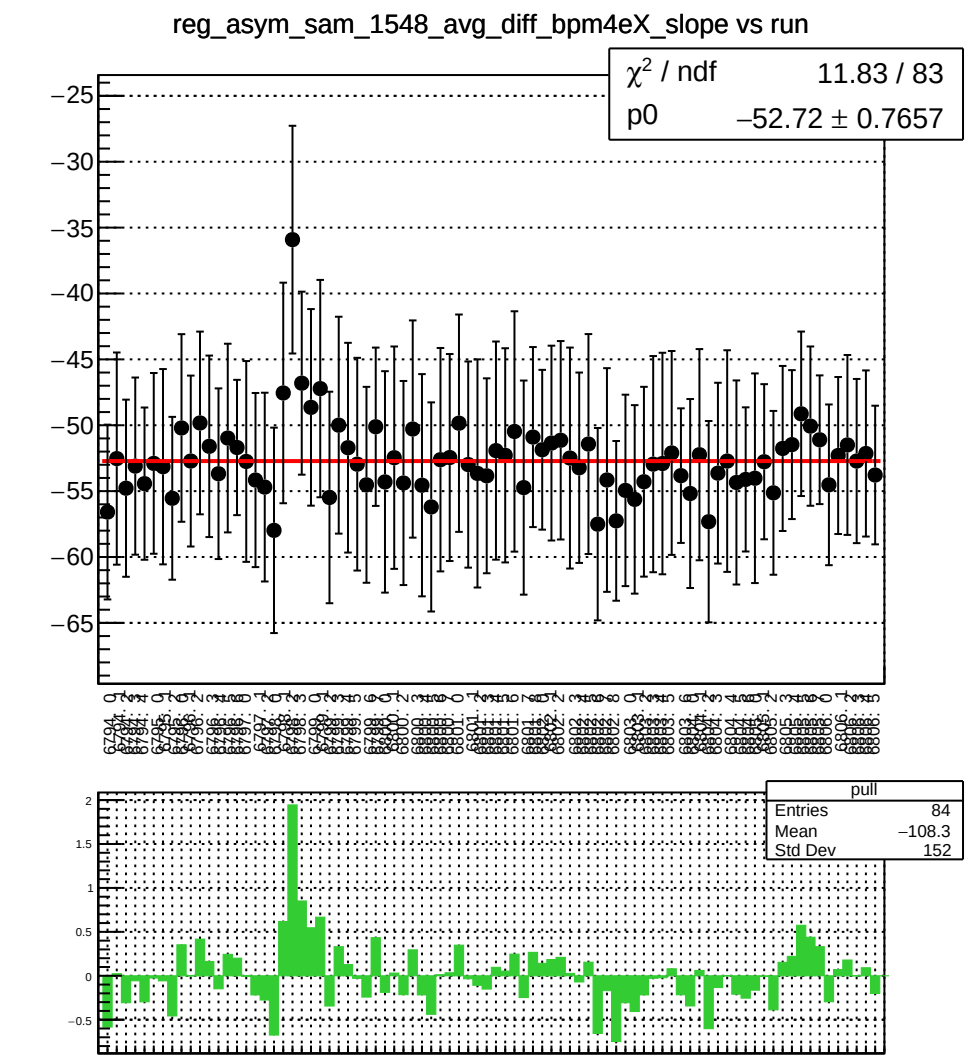

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 64.73 / 83
p0 0.2434 ± 0.02451
pull
Entries 84
Mean −175.7
Std Dev 253.9

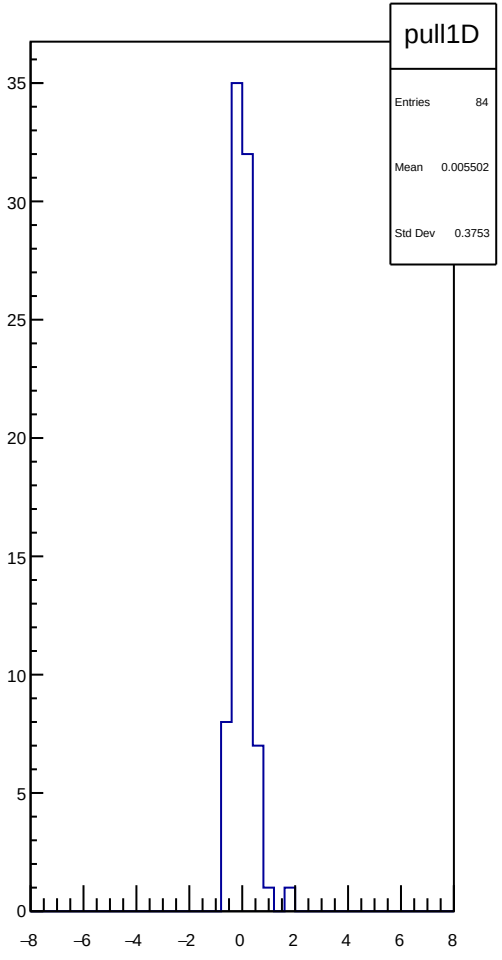

pull1D
Entries 84
Mean −0.02077
Std Dev 0.8776

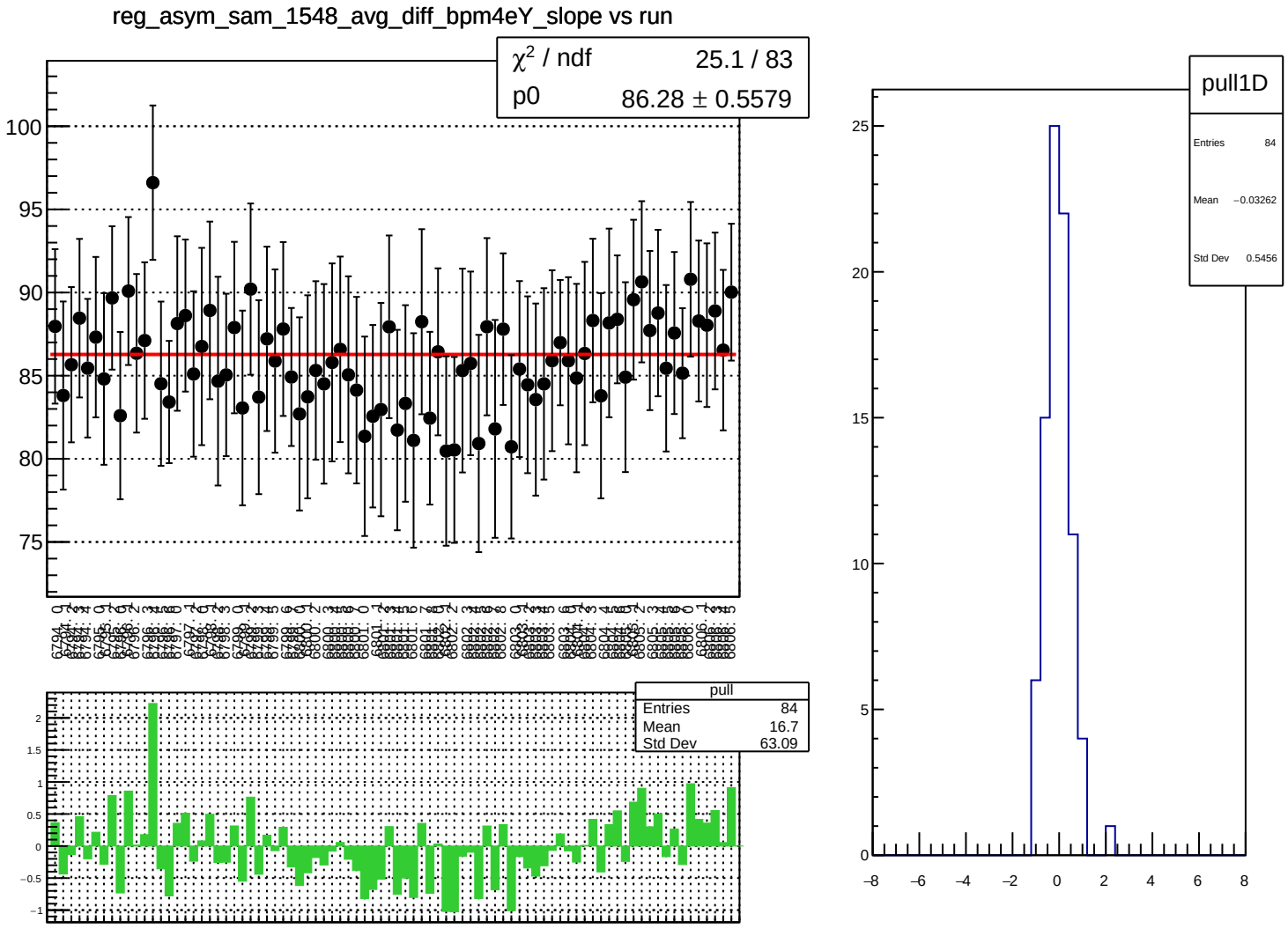

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 9.804 / 83
p0 −0.6674 ± 0.817
pull
Entries 84
Mean −35.55
Std Dev 82.4

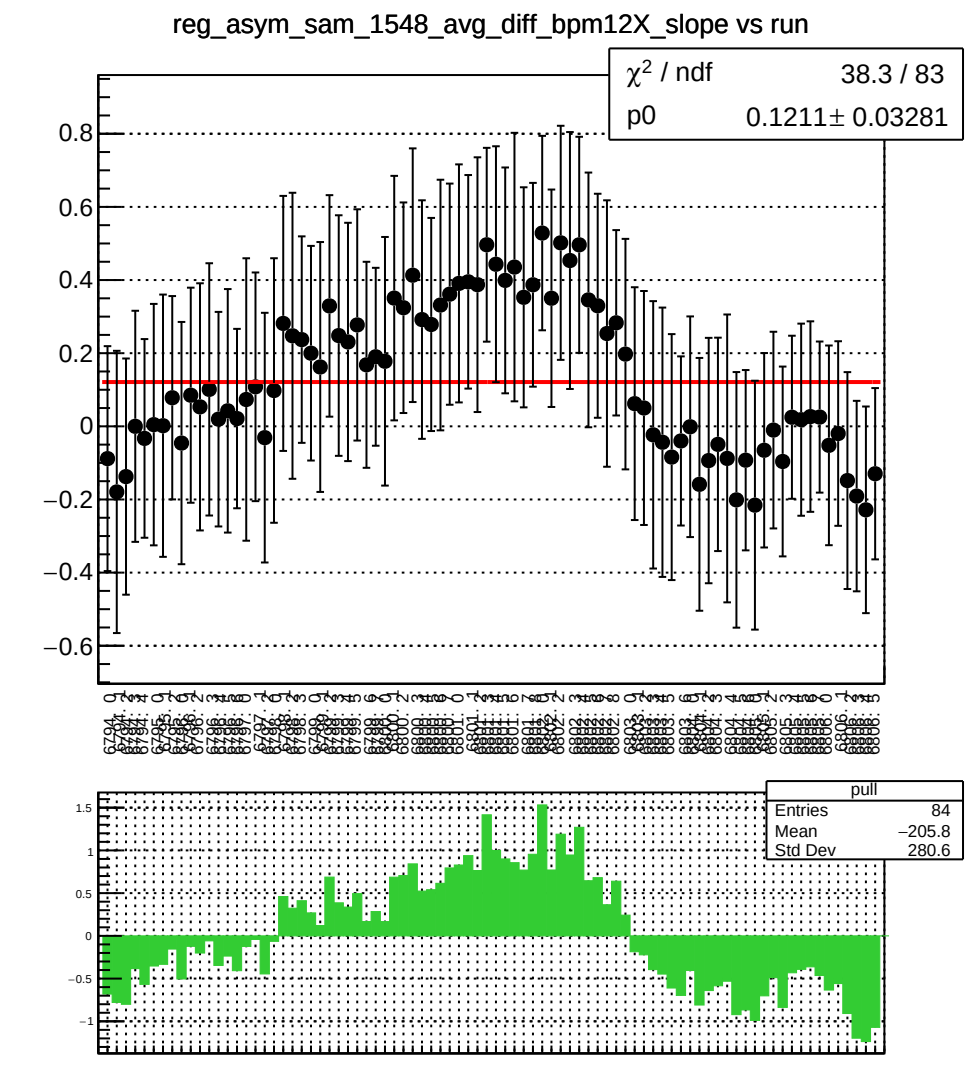

pull1D
Entries 84
Mean −0.007055
Std Dev 0.3416

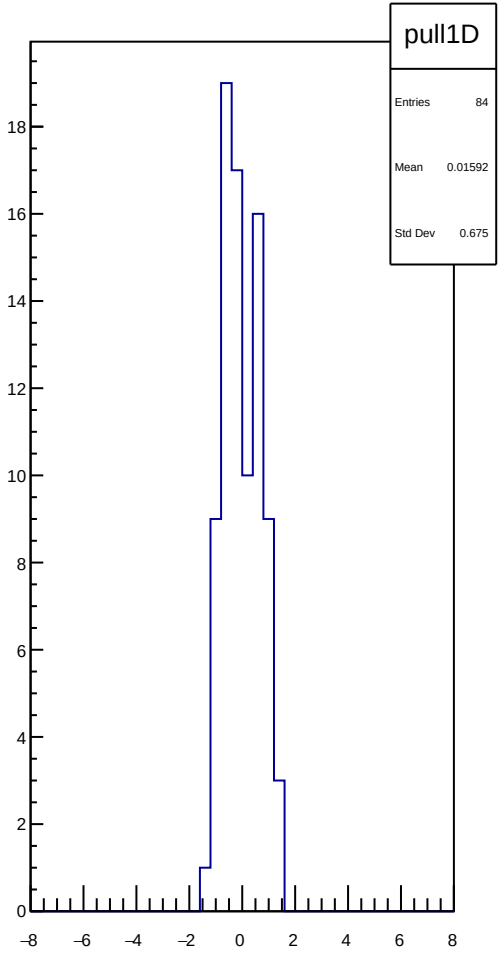

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.01 / 83
p0 −7.026 ± 0.402
pull
Entries 84
Mean 118.3
Std Dev 96.41
pull1D
Entries 84
Mean 0.01939
Std Dev 0.4877

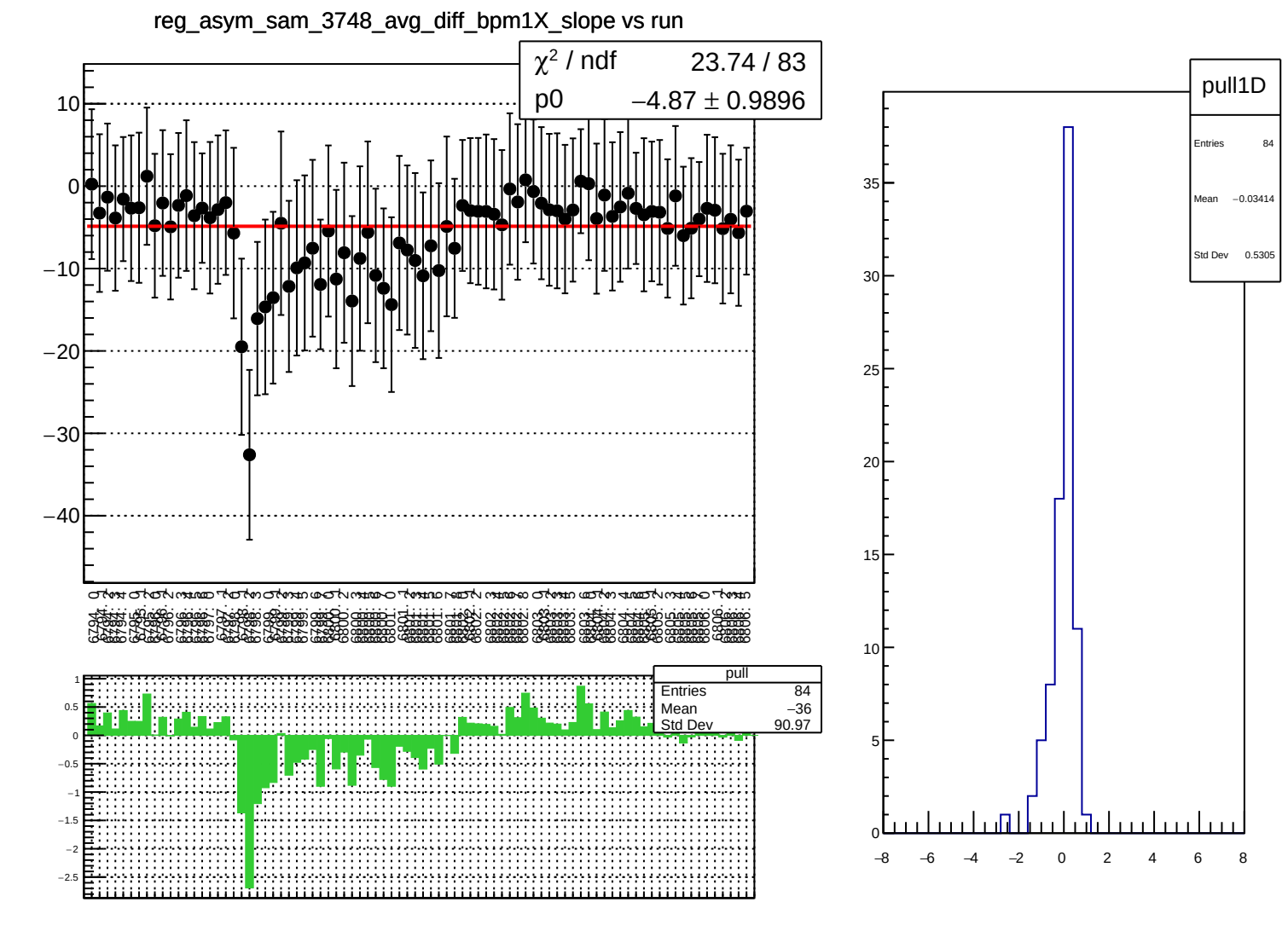

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.83 / 83
p0 −52.72 ± 0.7657
pull
Entries 84
Mean −108.3
Std Dev 152

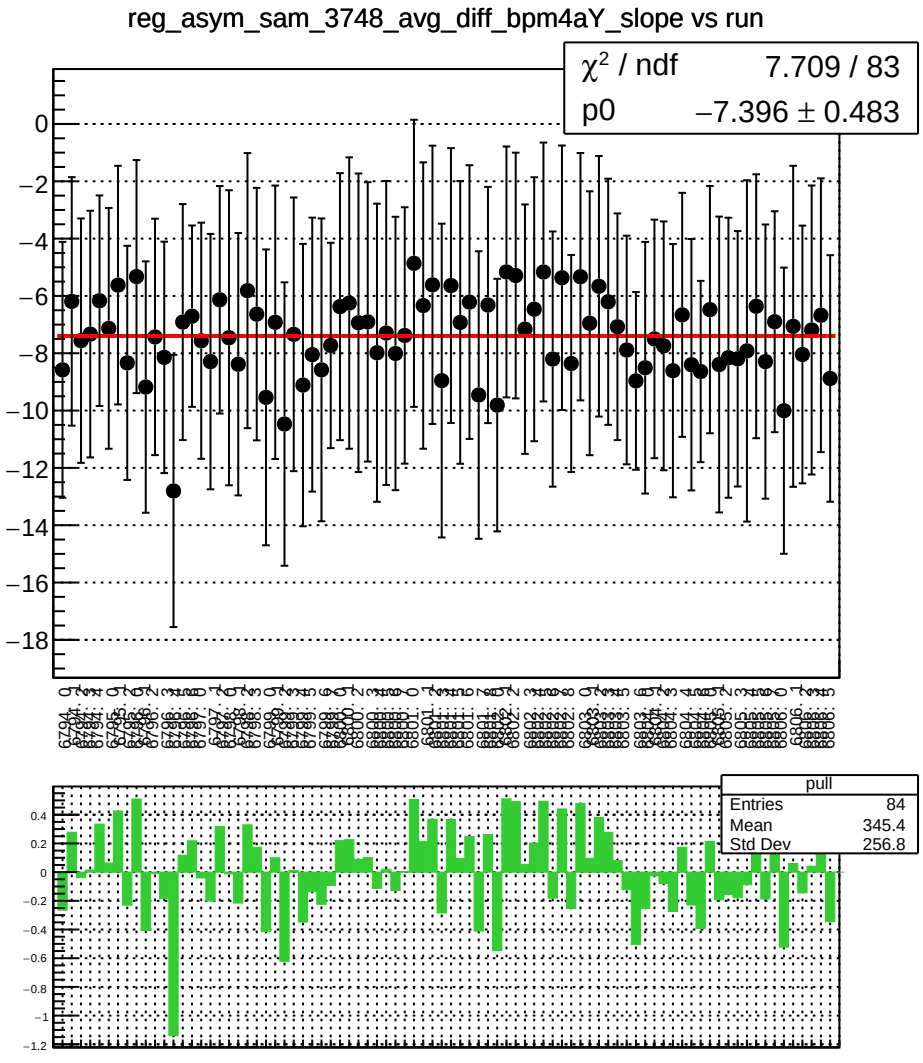

pull1D
Entries 84
Mean 0.005502
Std Dev 0.3753

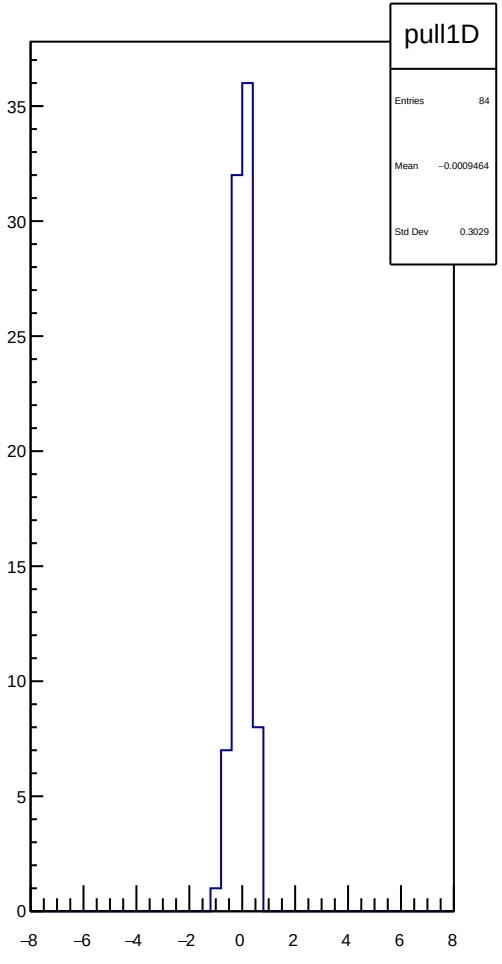

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.1 / 83
p0 86.28 ± 0.5579
pull
Entries 84
Mean 16.7
Std Dev 63.09
pull1D
Entries 84
Mean −0.03262
Std Dev 0.5456

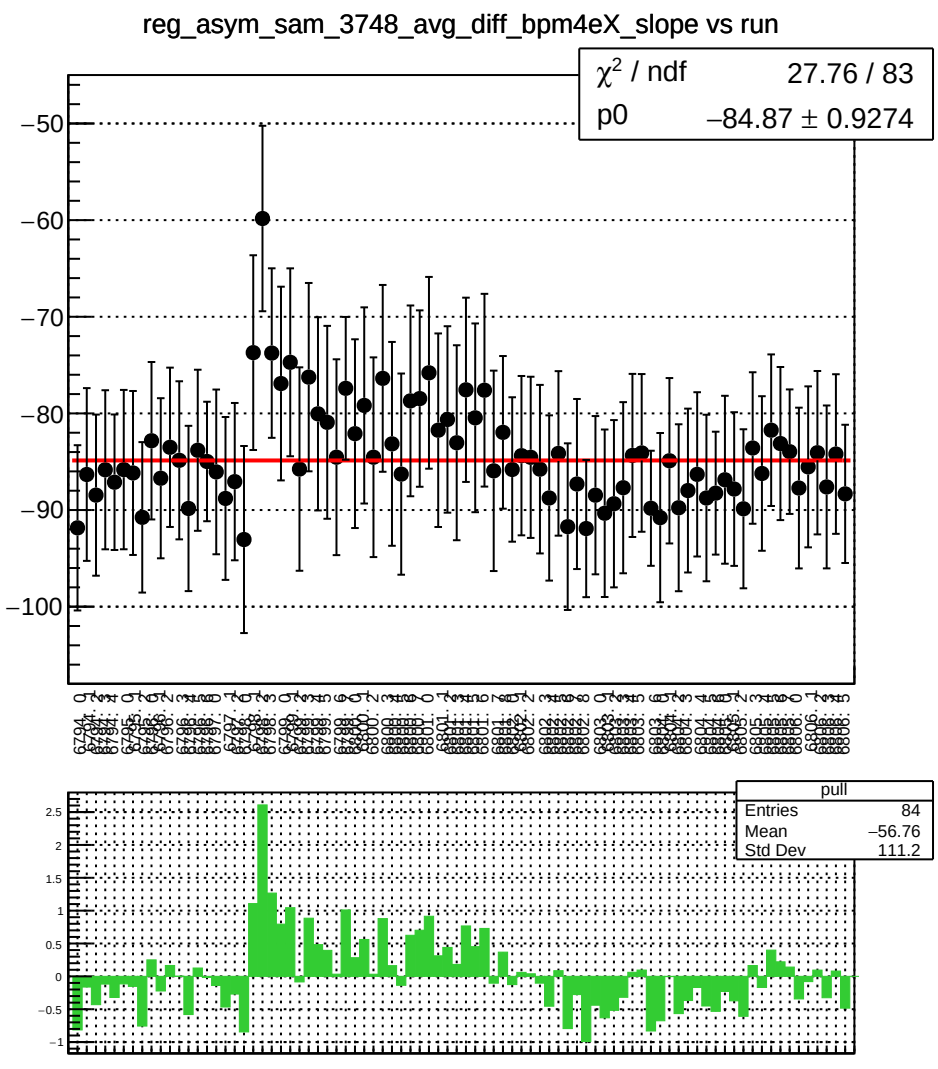

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 38.3 / 83
p0 0.1211± 0.03281
pull
Entries 84
Mean −205.8
Std Dev 280.6

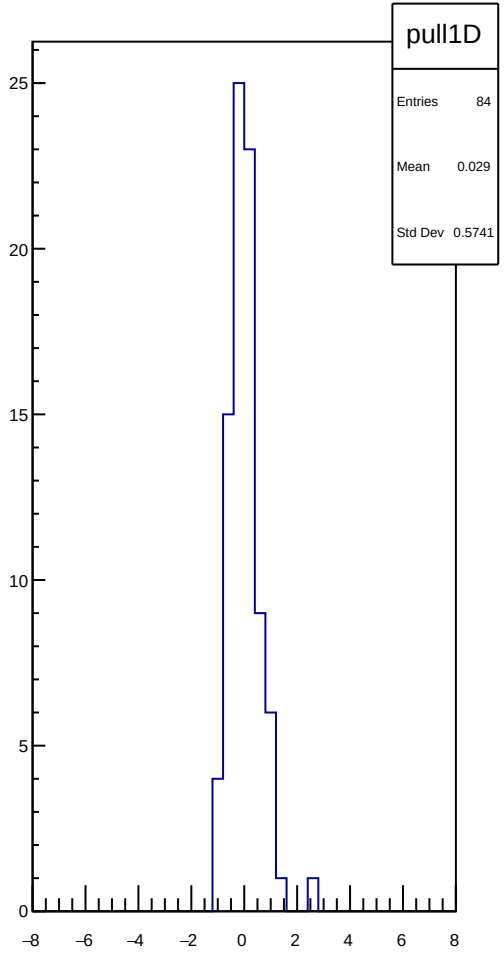

pull1D
Entries 84
Mean 0.01592
Std Dev 0.675

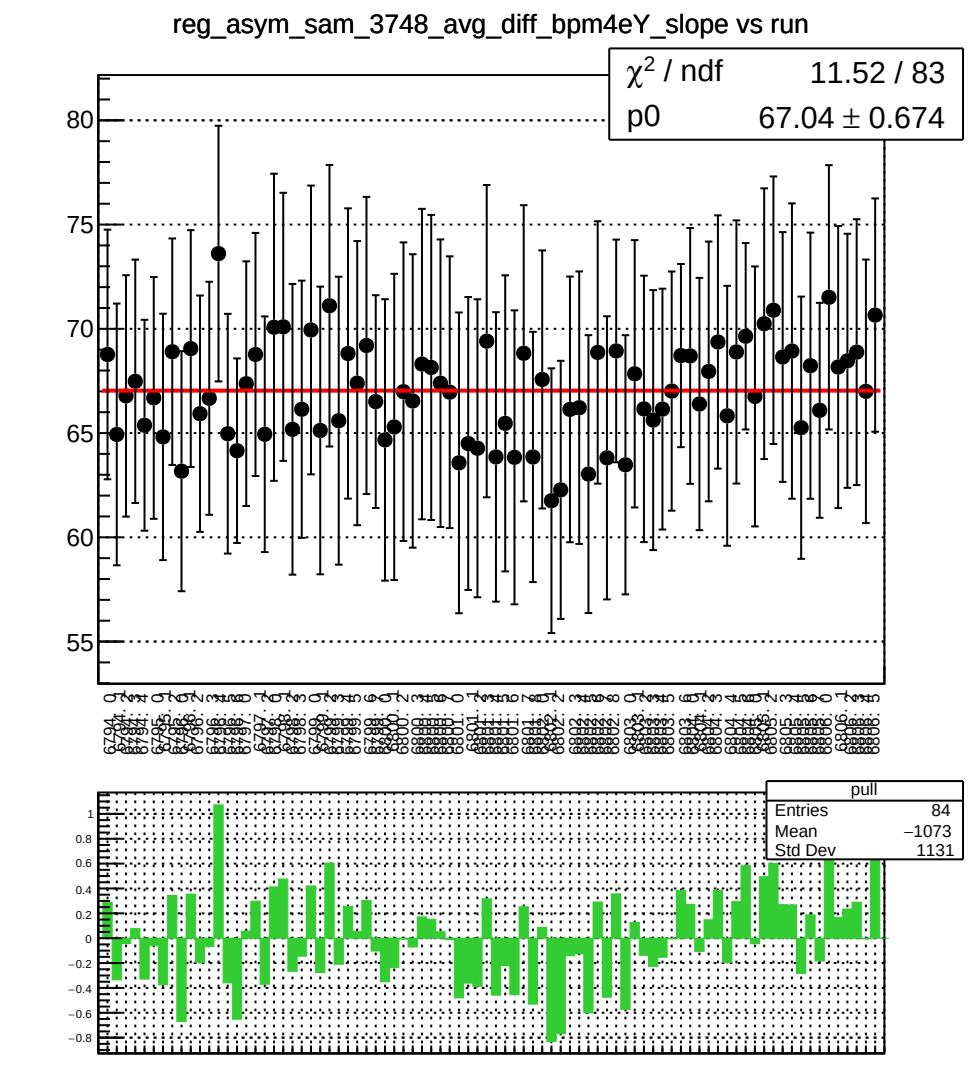

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 23.74 / 83
p0 −4.87 ± 0.9896
pull
Entries 84
Mean −36
Std Dev 90.97
pull1D
Entries 84
Mean −0.03414
Std Dev 0.5305

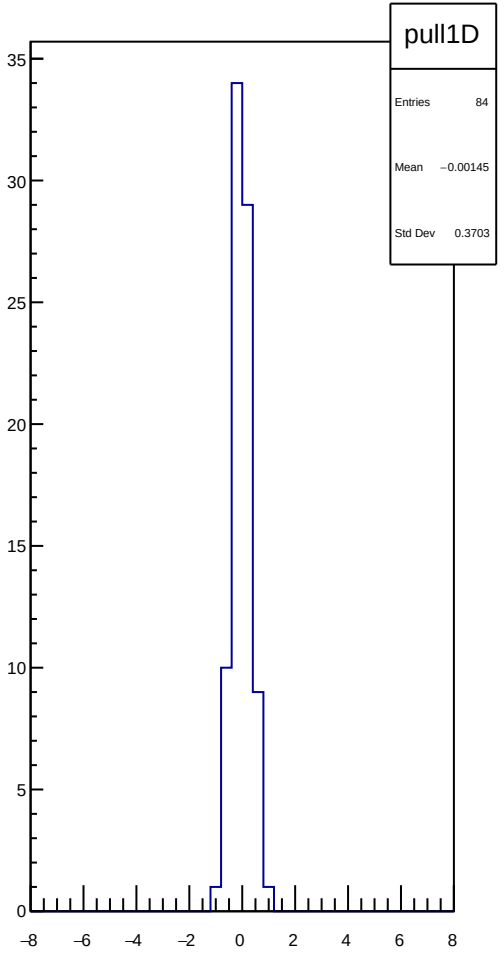

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.709 / 83
p0 −7.396 ± 0.483
pull
Entries 84
Mean 345.4
Std Dev 256.8

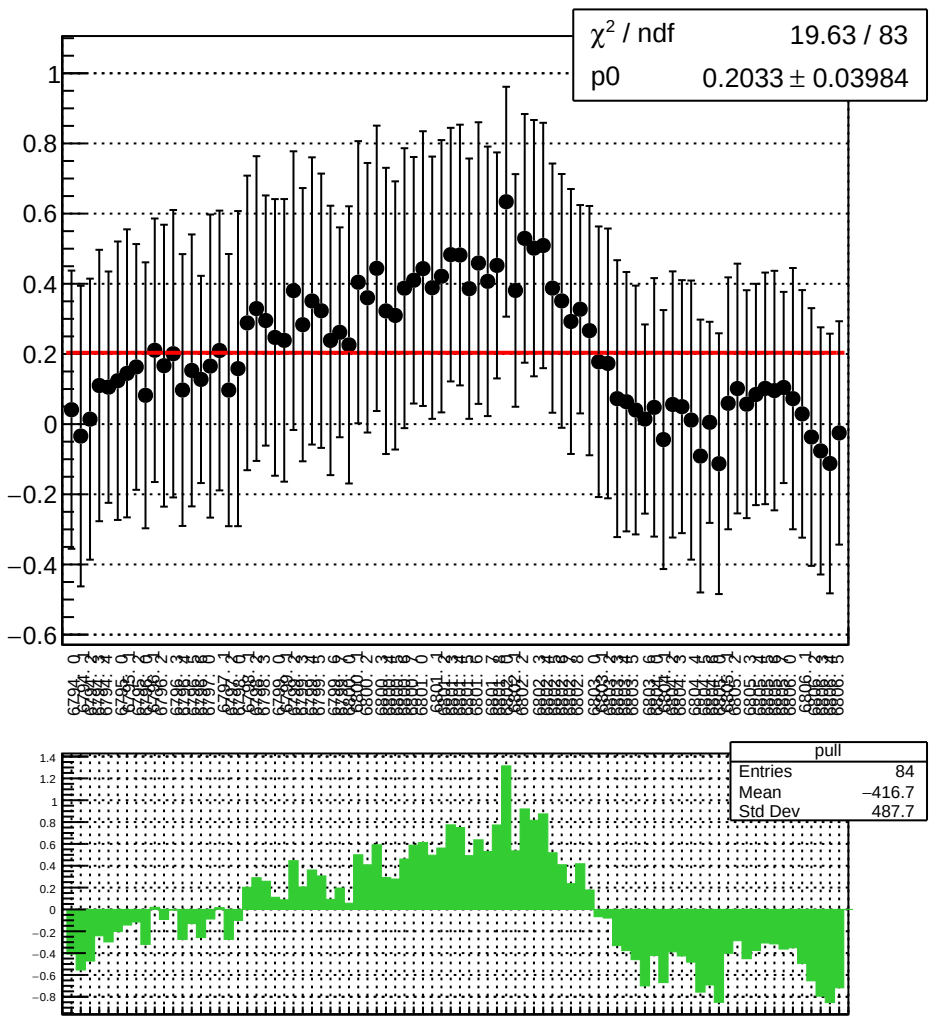

pull1D
Entries 84
Mean −0.0009464
Std Dev 0.3029

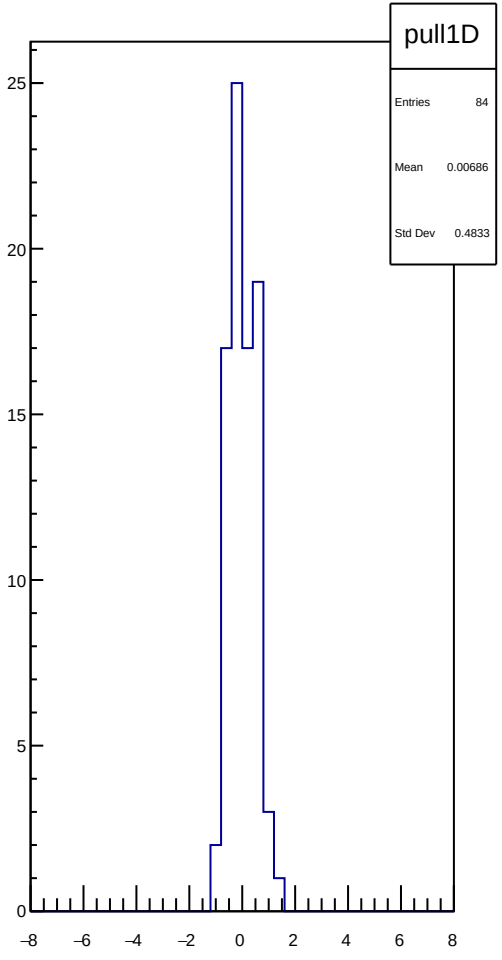

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.76 / 83
p0 −84.87 ± 0.9274
−50
−60
−70
−80
−90
−100
pull
Entries 84
Mean −56.76
Std Dev 111.2
2.5
2
1.5
1
0.5
0
−0.5
−1

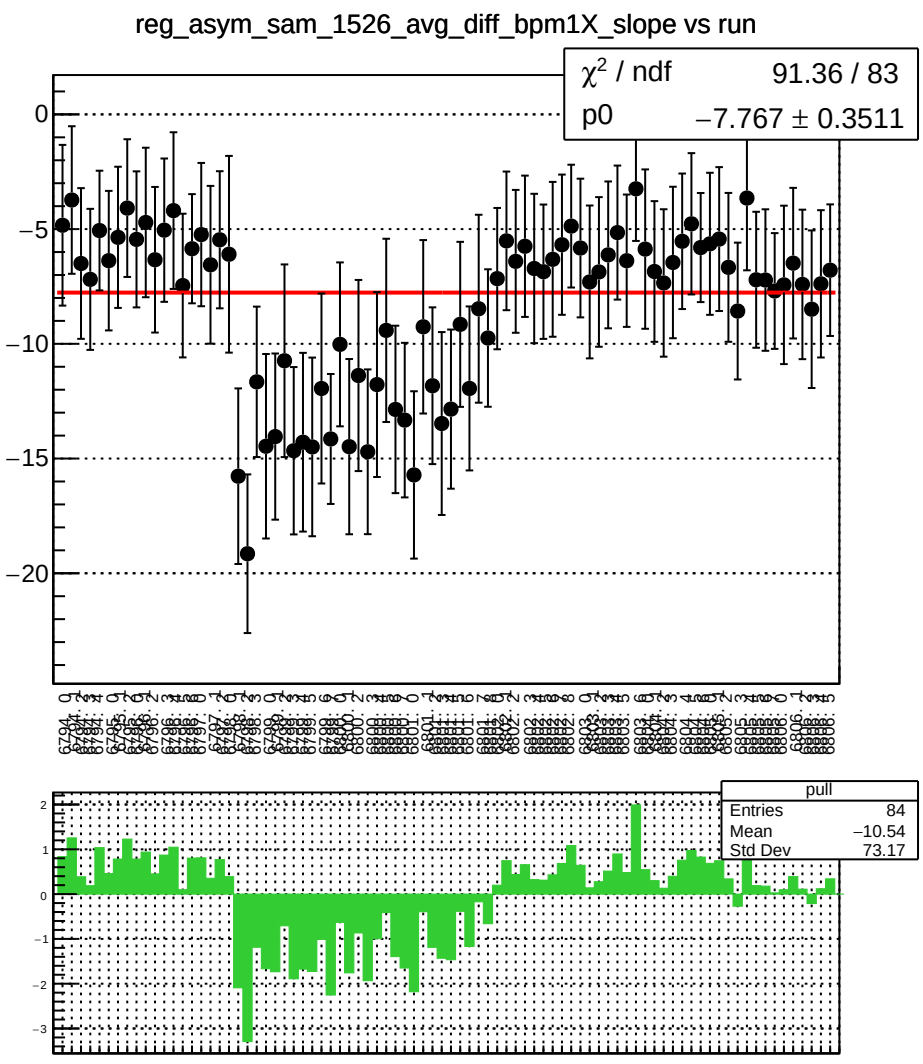

pull1D
Entries 84
Mean 0.029
Std Dev 0.5741
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

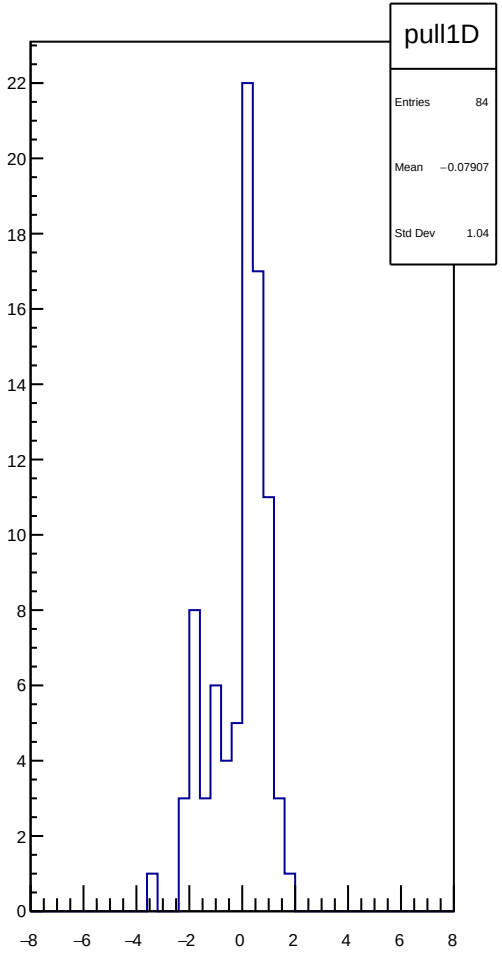

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.52 / 83
p0 67.04 ± 0.674
pull
Entries 84
Mean −1073
Std Dev 1131

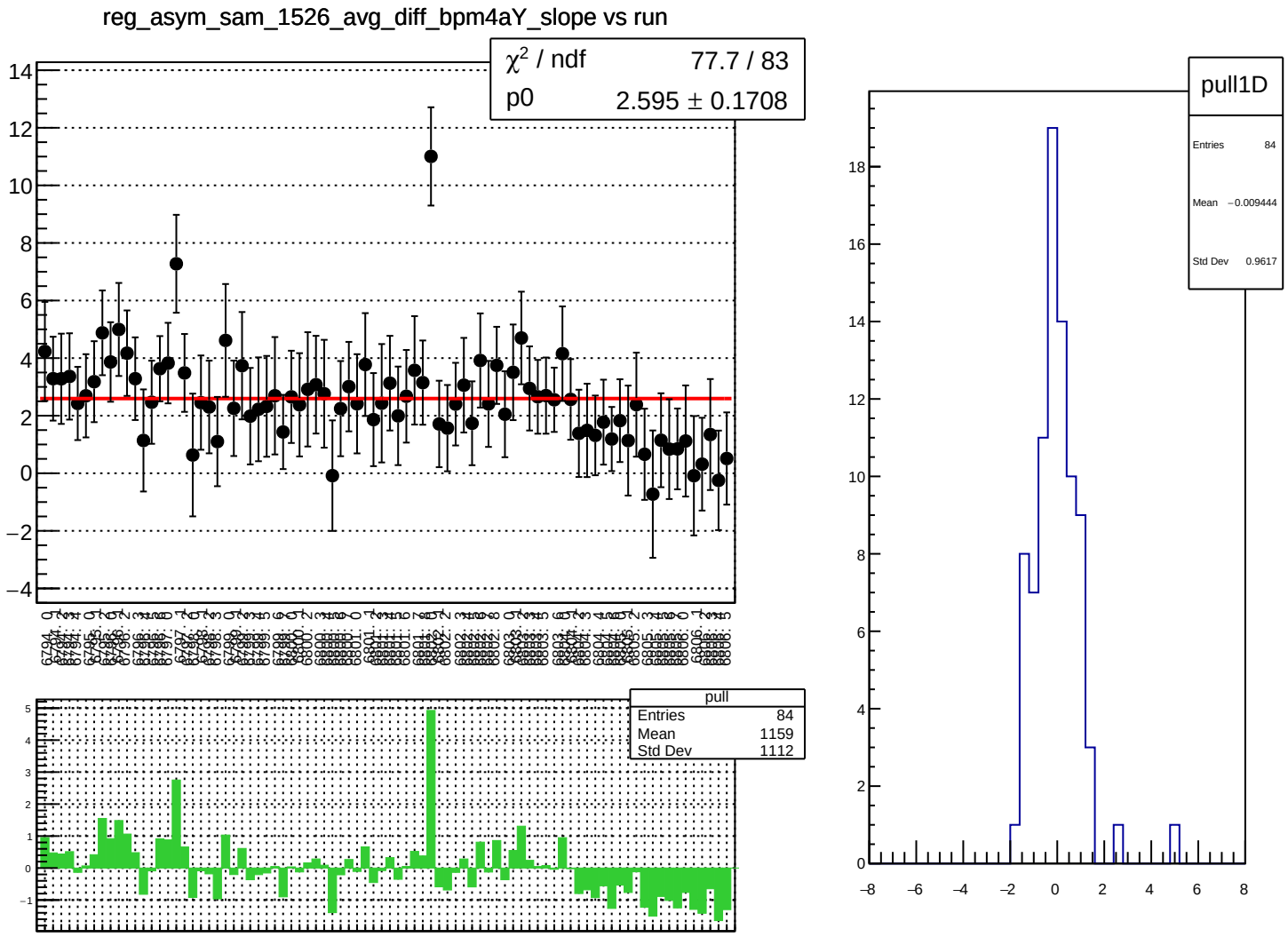

pull1D
Entries 84
Mean −0.00145
Std Dev 0.3703

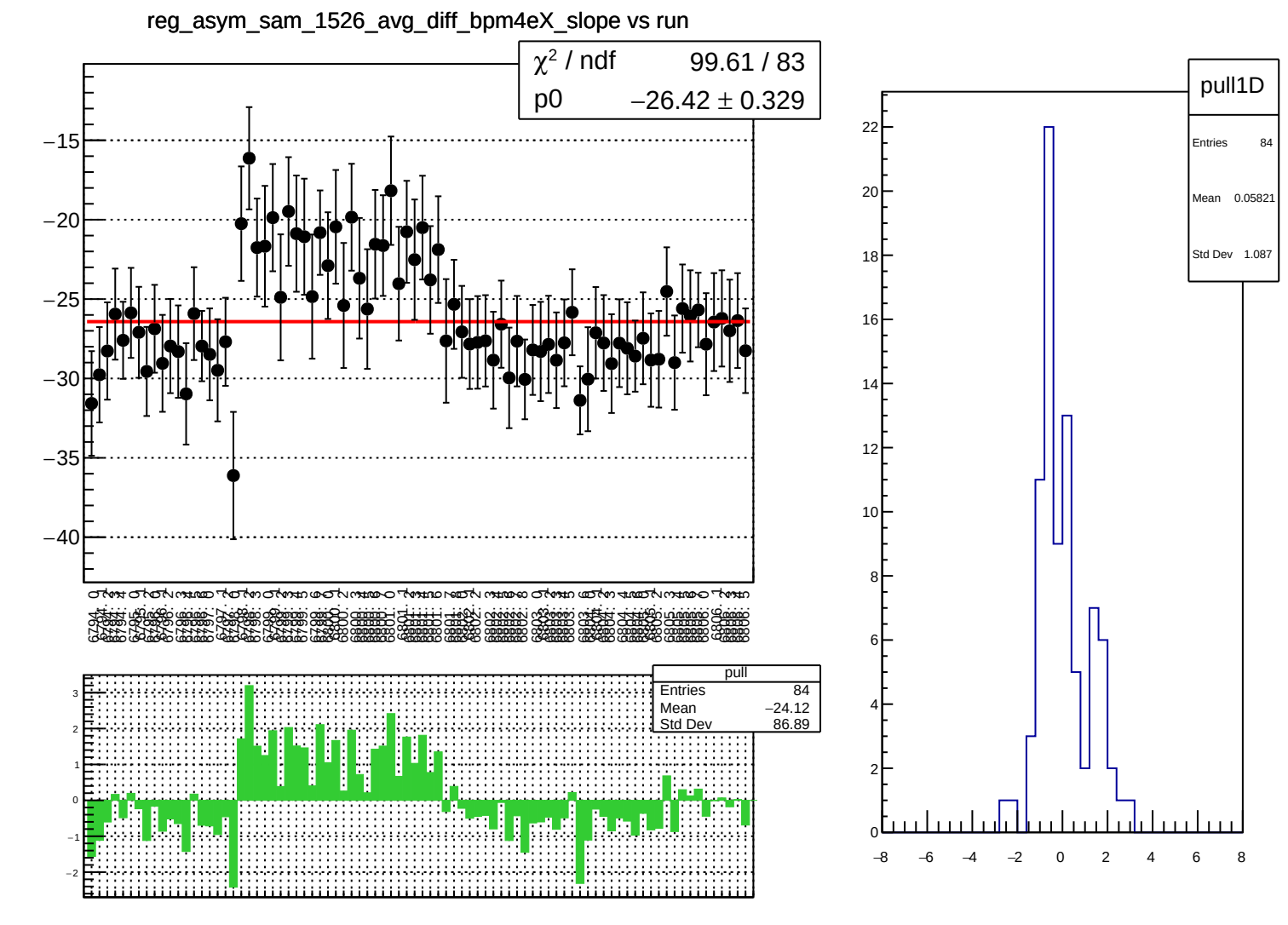

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 19.63 / 83
p0 0.2033 ± 0.03984
pull
Entries 84
Mean −416.7
Std Dev 487.7

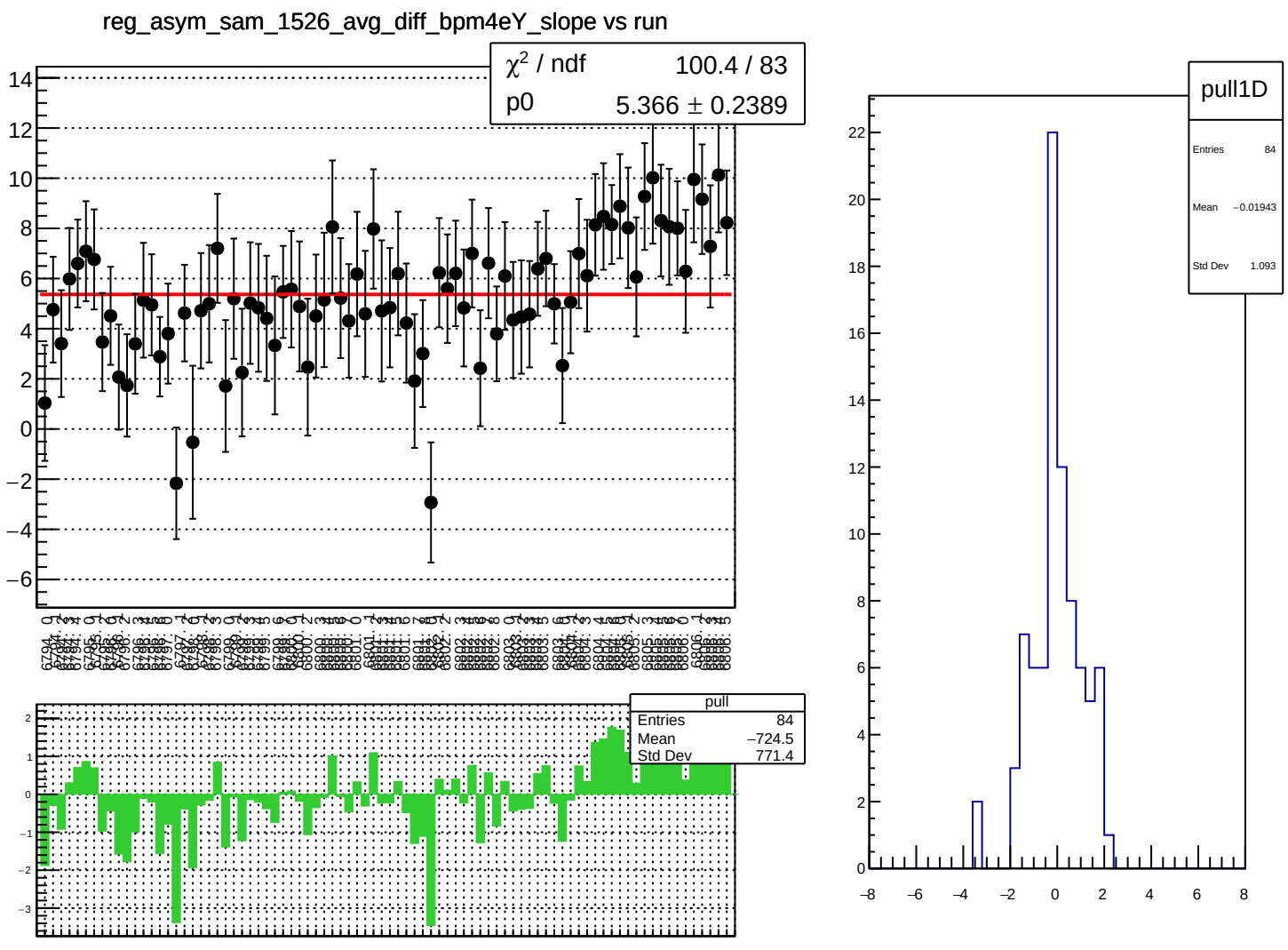

pull1D
Entries 84
Mean 0.00686
Std Dev 0.4833

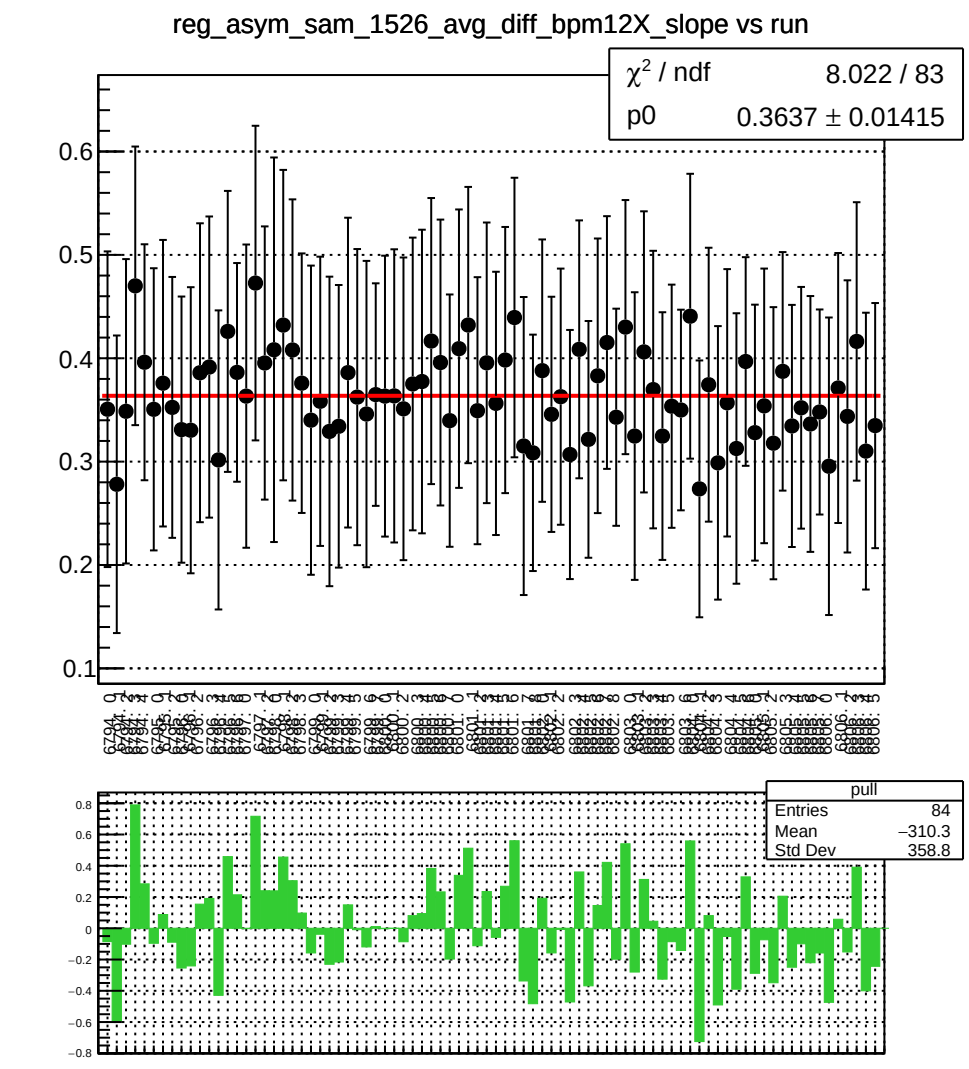

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 91.36 / 83
p0 −7.767 ± 0.3511
pull
Entries 84
Mean −10.54
Std Dev 73.17

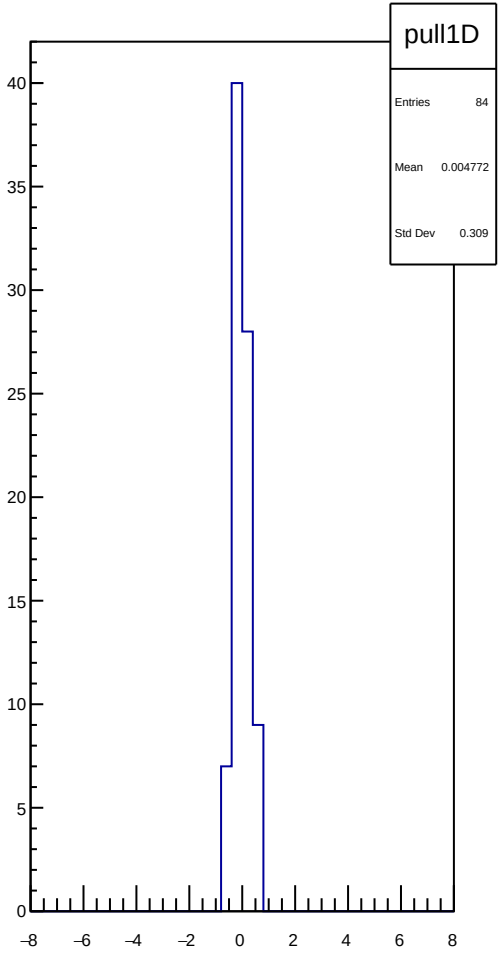

pull1D
Entries 84
Mean −0.07907
Std Dev 1.04

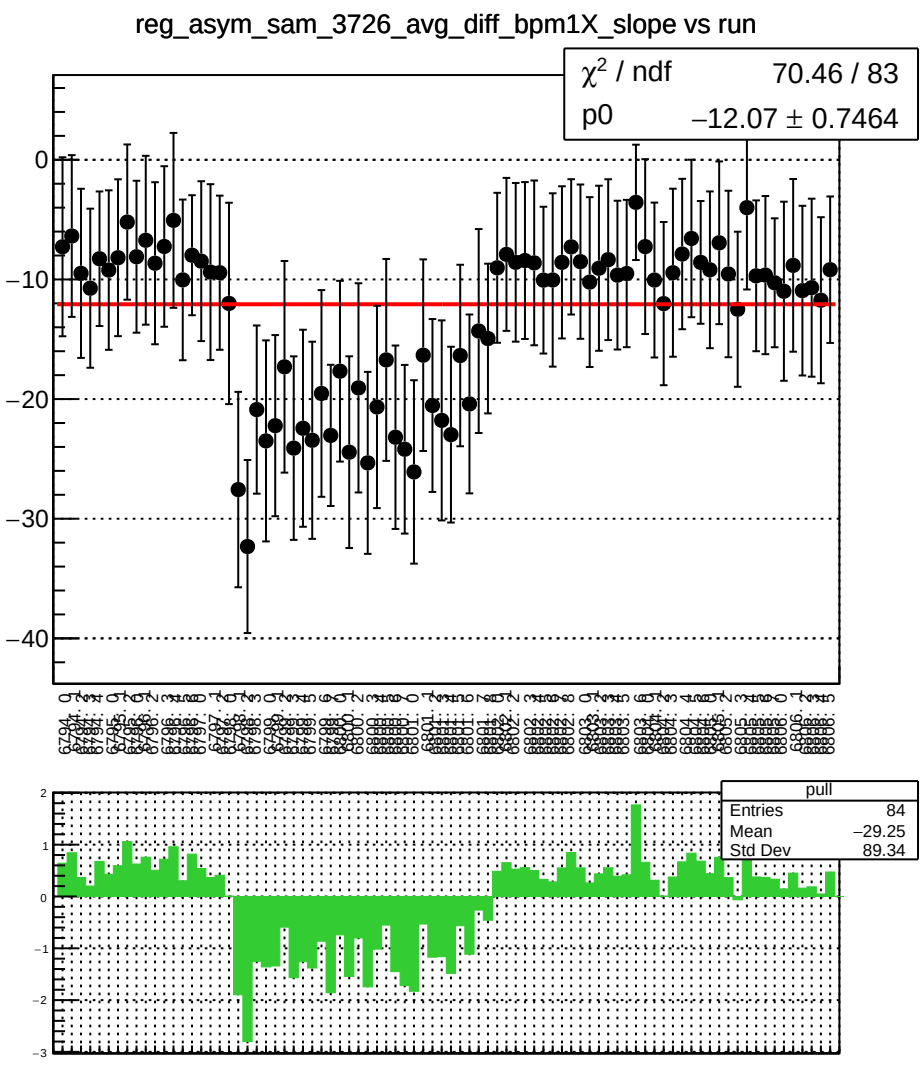

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 77.7 / 83
p0 2.595 ± 0.1708
pull
Entries 84
Mean 1159
Std Dev 1112
pull1D
Entries 84
Mean −0.009444
Std Dev 0.9617

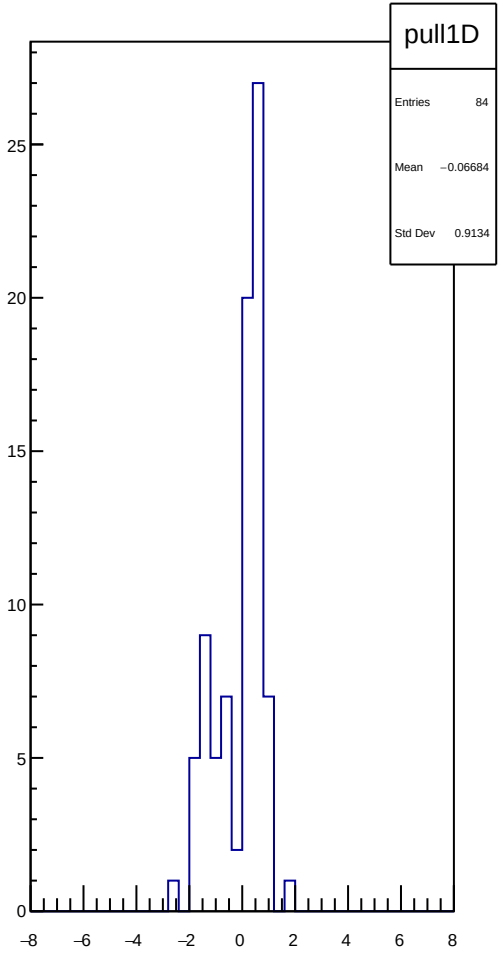

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 99.61 / 83
p0 −26.42 ± 0.329
pull
Entries 84
Mean −24.12
Std Dev 86.89
pull1D
Entries 84
Mean 0.05821
Std Dev 1.087

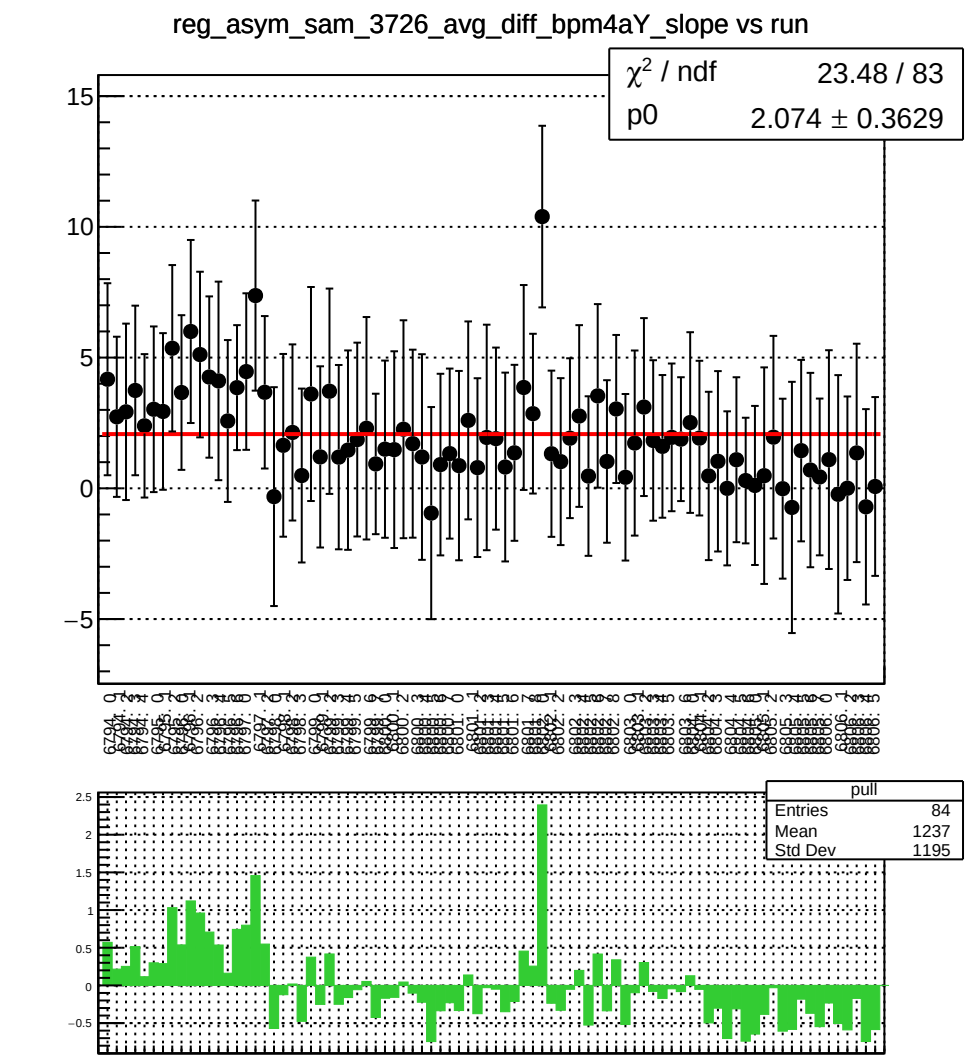

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 100.4 / 83
p0 5.366 ± 0.2389
pull
Entries 84
Mean −724.5
Std Dev 771.4
pull1D
Entries 84
Mean −0.01943
Std Dev 1.093

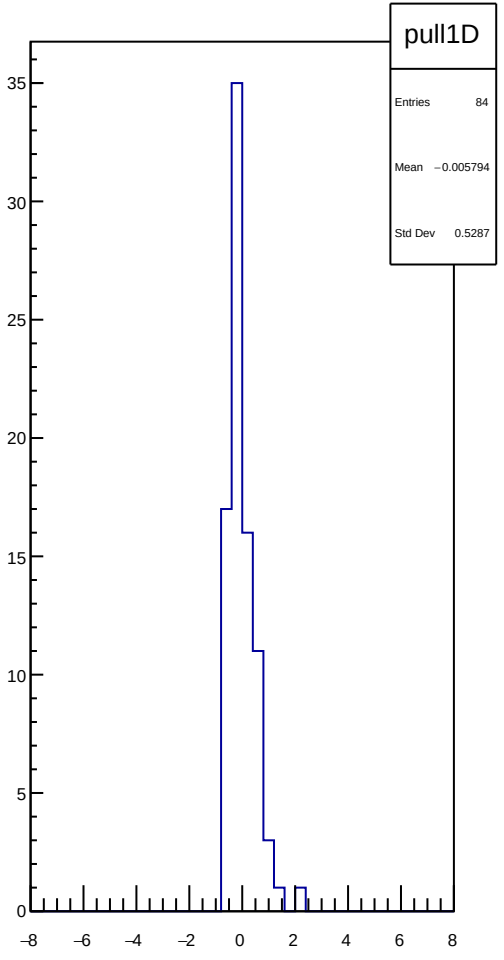

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 8.022 / 83
p0 0.3637 ± 0.01415
pull
Entries 84
Mean −310.3
Std Dev 358.8

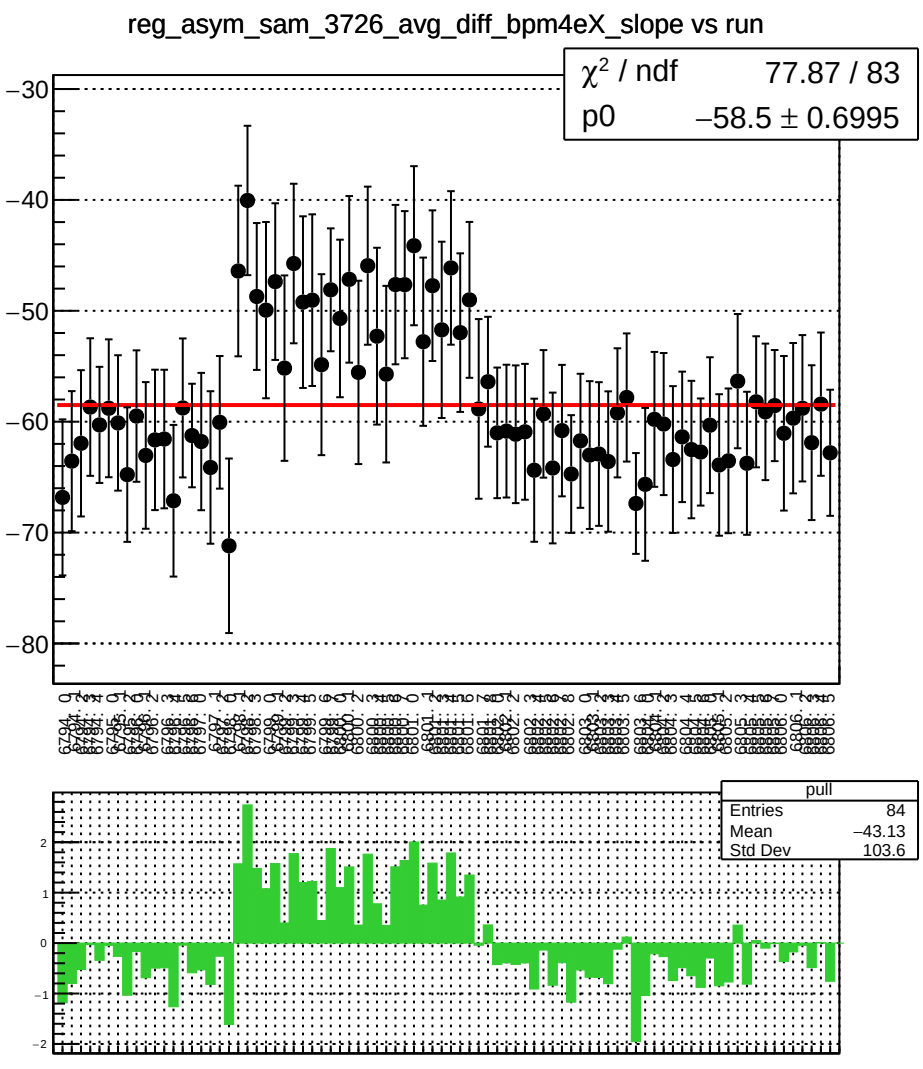

pull1D
Entries 84
Mean 0.004772
Std Dev 0.309

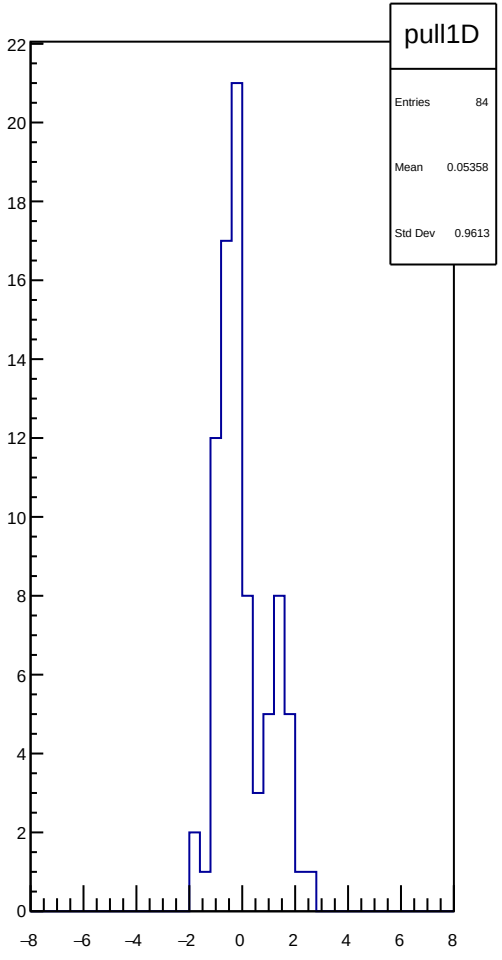

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 70.46 / 83
p0 −12.07 ± 0.7464
pull
Entries 84
Mean −29.25
Std Dev 89.34

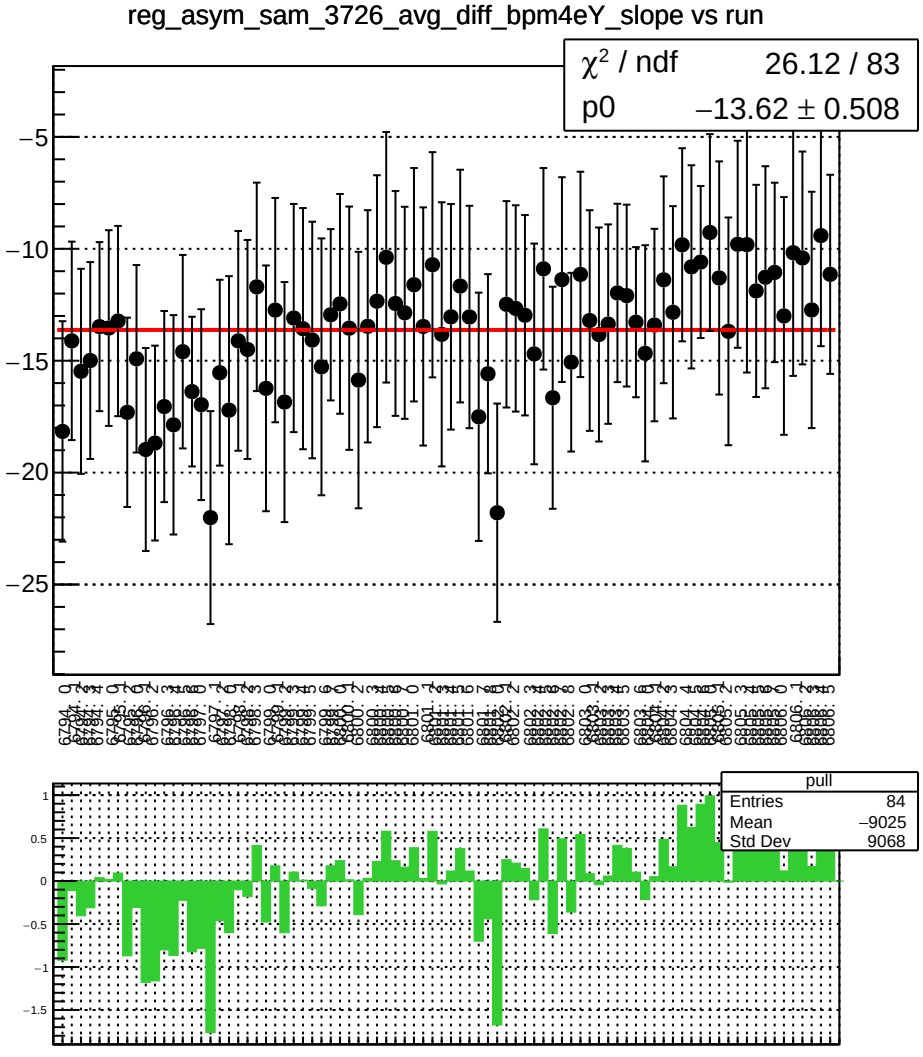

pull1D
Entries 84
Mean −0.06684
Std Dev 0.9134

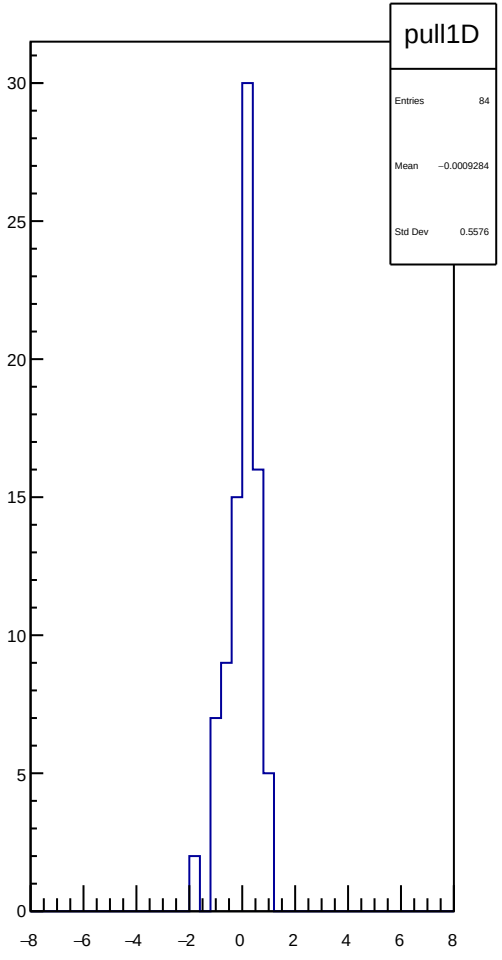

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.48 / 83
p0 2.074 ± 0.3629
pull
Entries 84
Mean 1237
Std Dev 1195

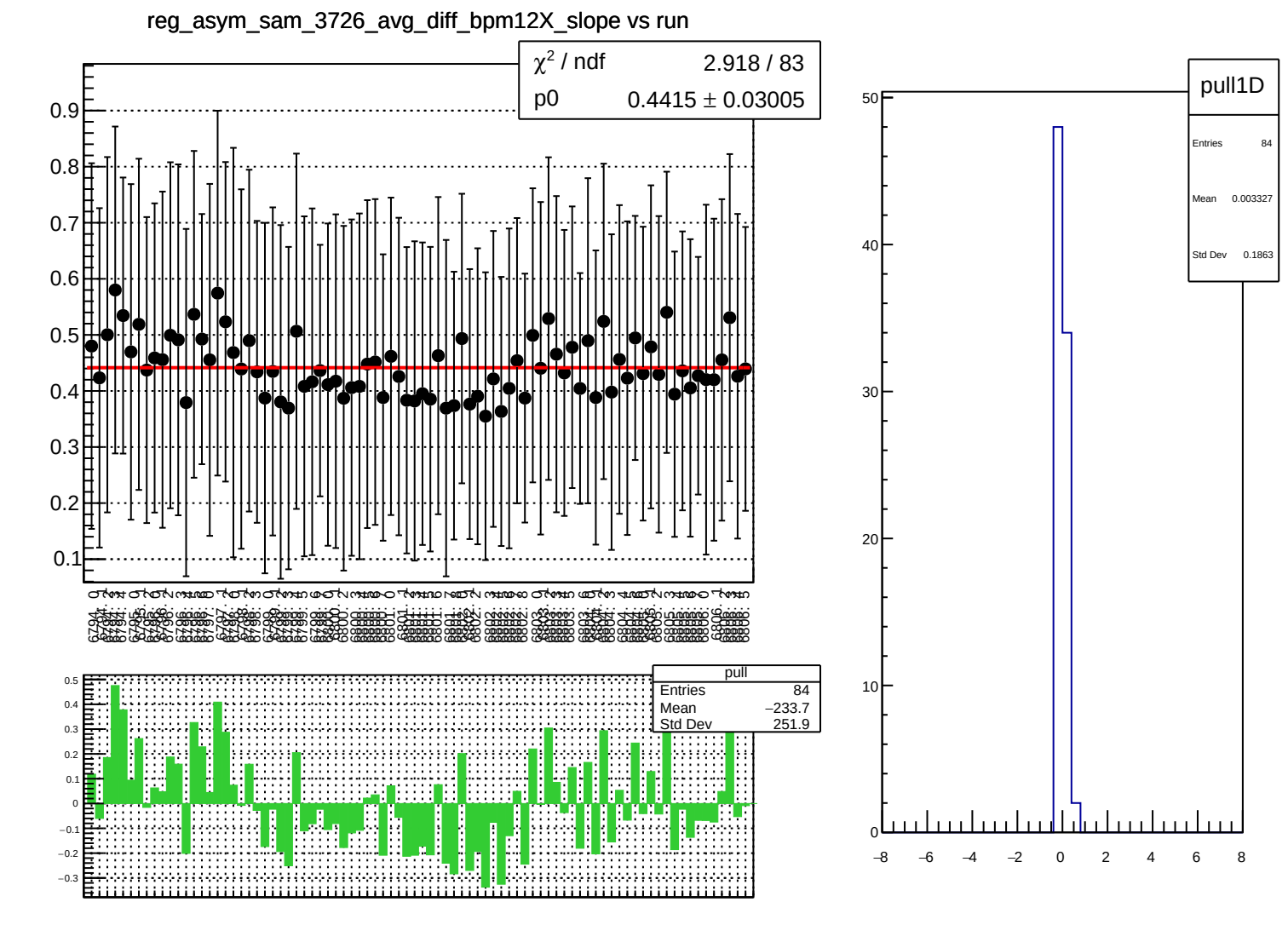

pull1D
Entries 84
Mean −0.005794
Std Dev 0.5287

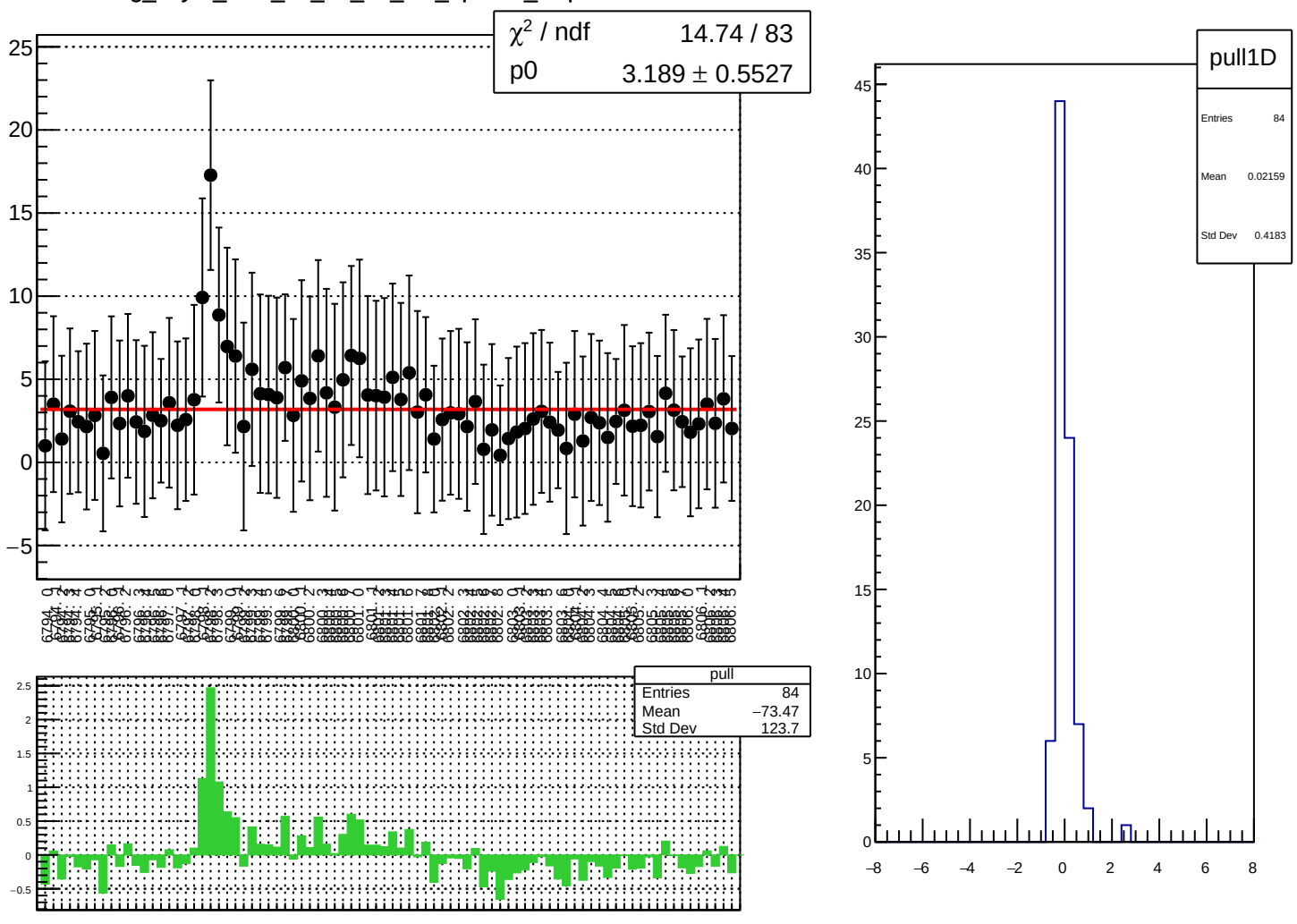

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 77.87 / 83
p0 −58.5 ± 0.6995
pull
Entries 84
Mean −43.13
Std Dev 103.6

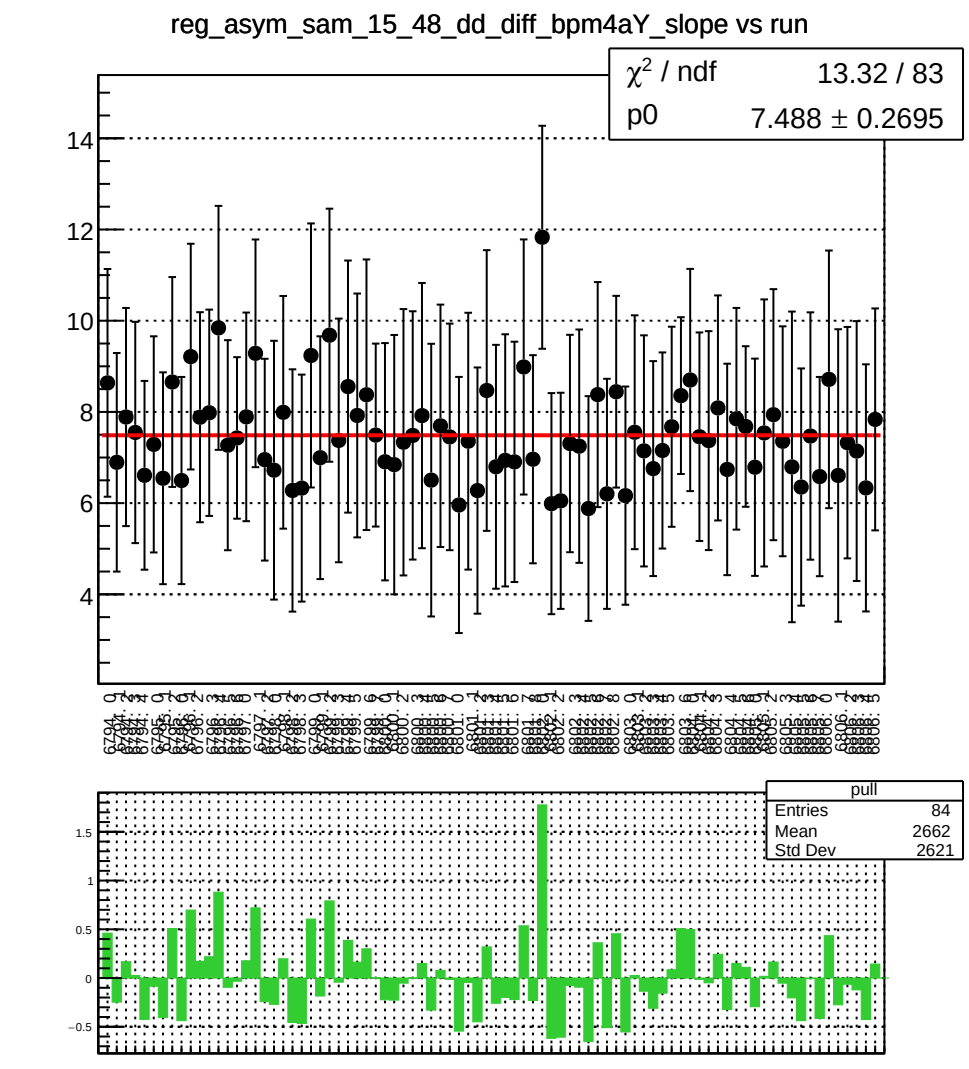

pull1D
Entries 84
Mean 0.05358
Std Dev 0.9613

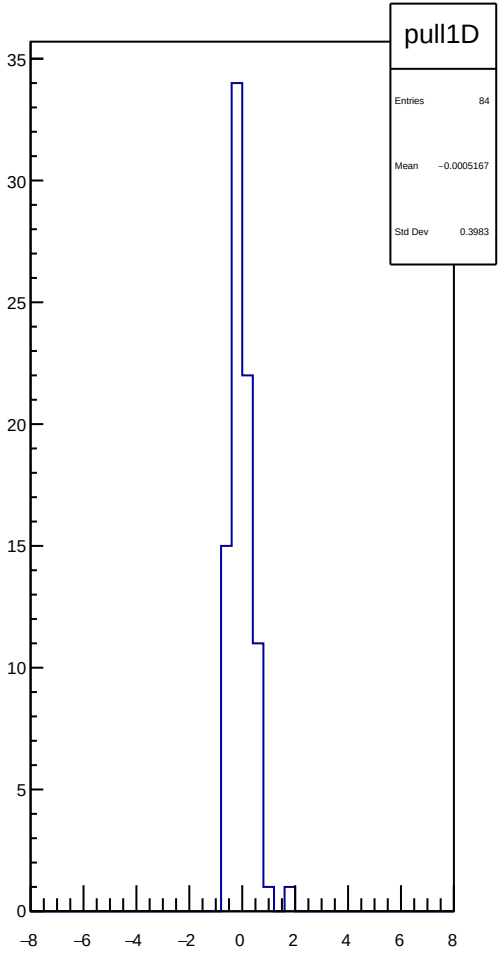

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.12 / 83
p0 −13.62 ± 0.508
pull
Entries 84
Mean −9025
Std Dev 9068

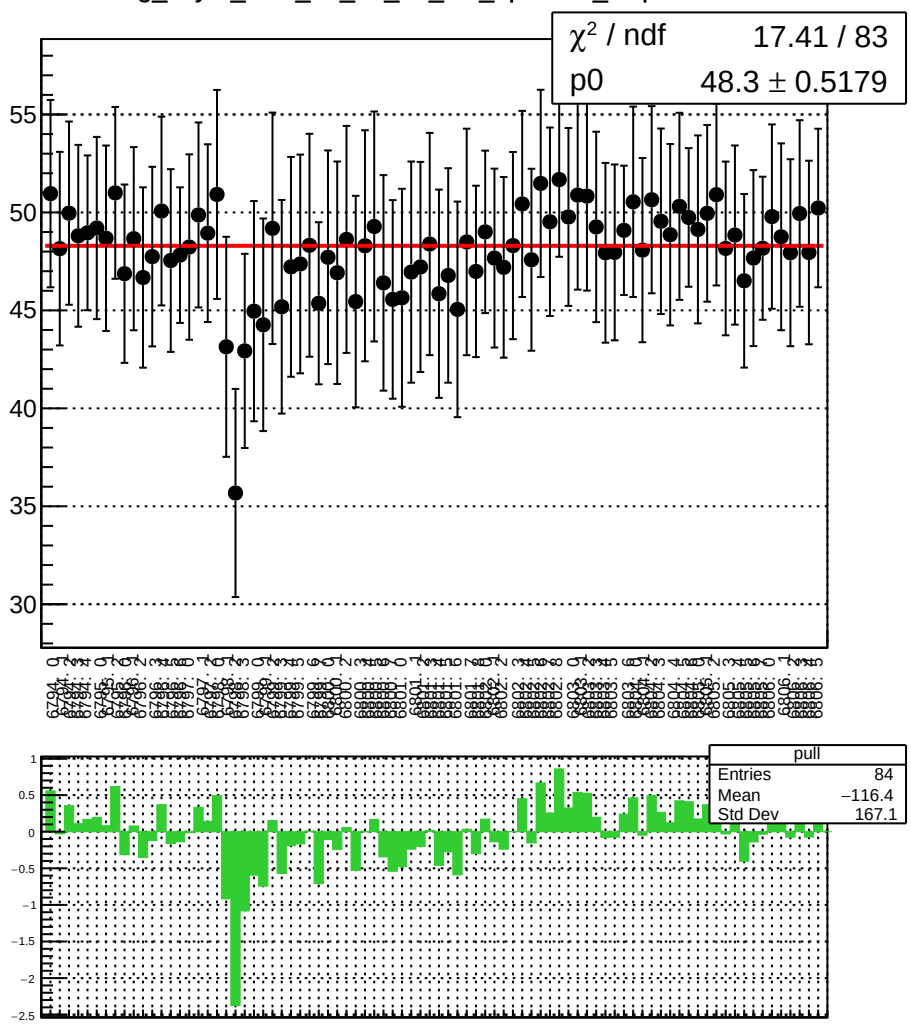

pull1D
Entries 84
Mean −0.0009284
Std Dev 0.5576

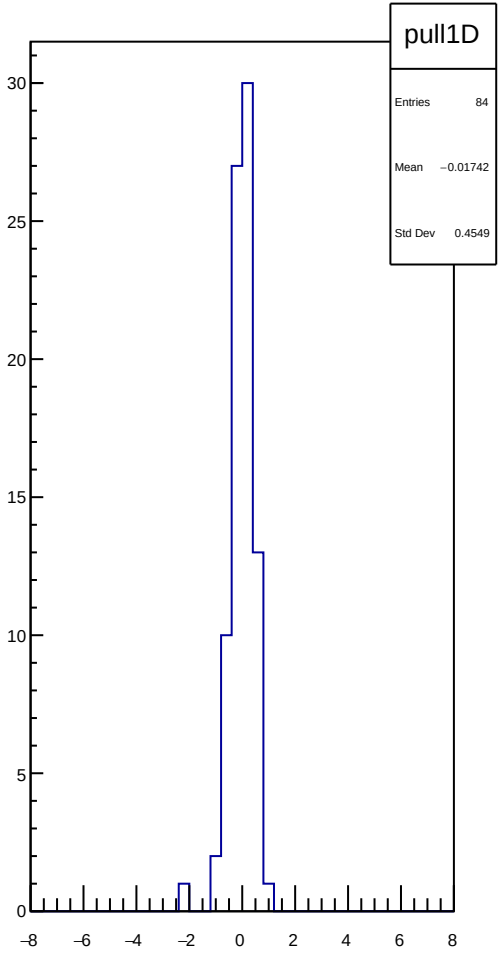

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 2.918 / 83
p0 0.4415 ± 0.03005
pull
Entries 84
Mean −233.7
Std Dev 251.9
pull1D
Entries 84
Mean 0.003327
Std Dev 0.1863

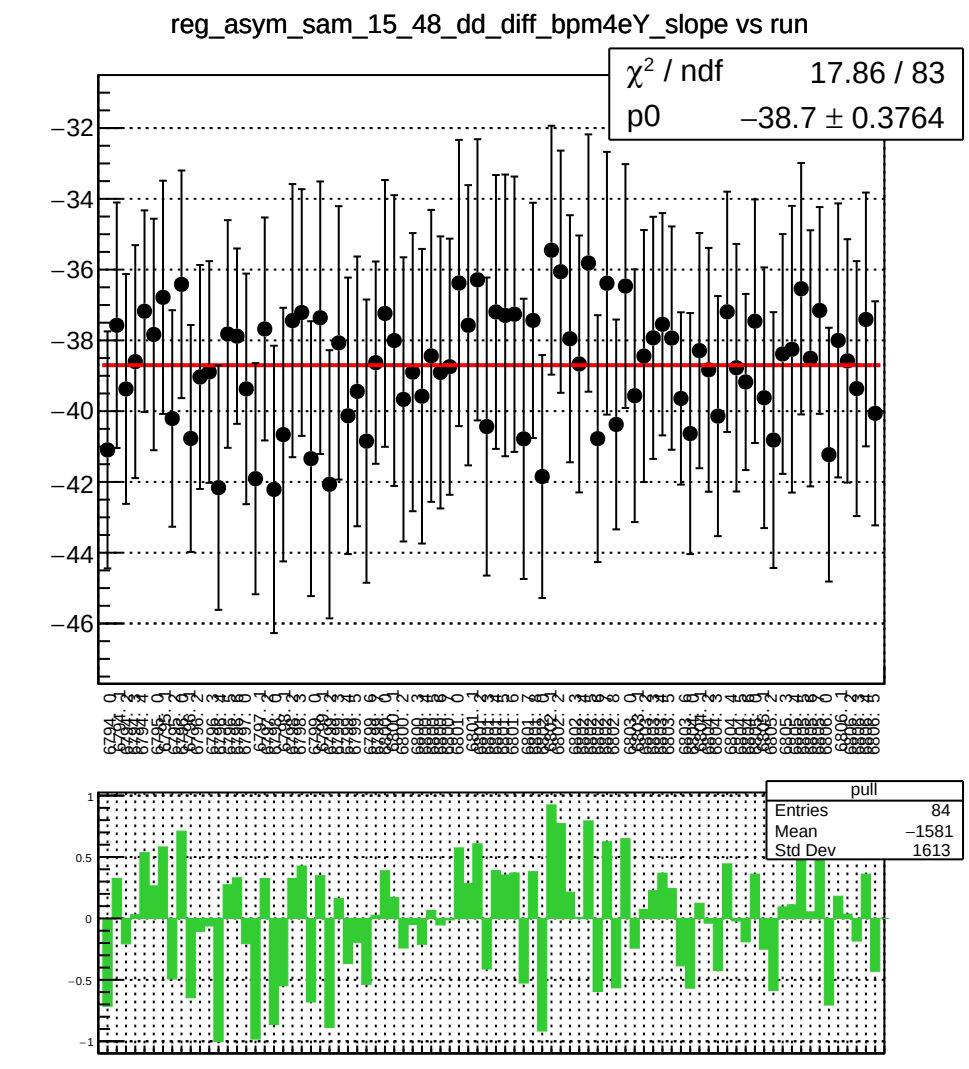

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 14.74 / 83
p0 3.189 ± 0.5527
pull
Entries 84
Mean −73.47
Std Dev 123.7
pull1D
Entries 84
Mean 0.02159
Std Dev 0.4183

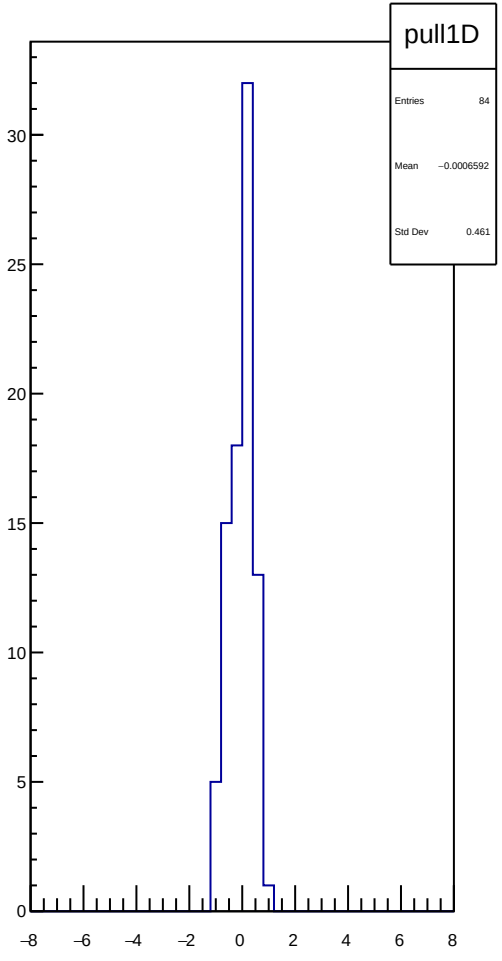

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.32 / 83
p0 7.488 ± 0.2695
pull
Entries 84
Mean 2662
Std Dev 2621

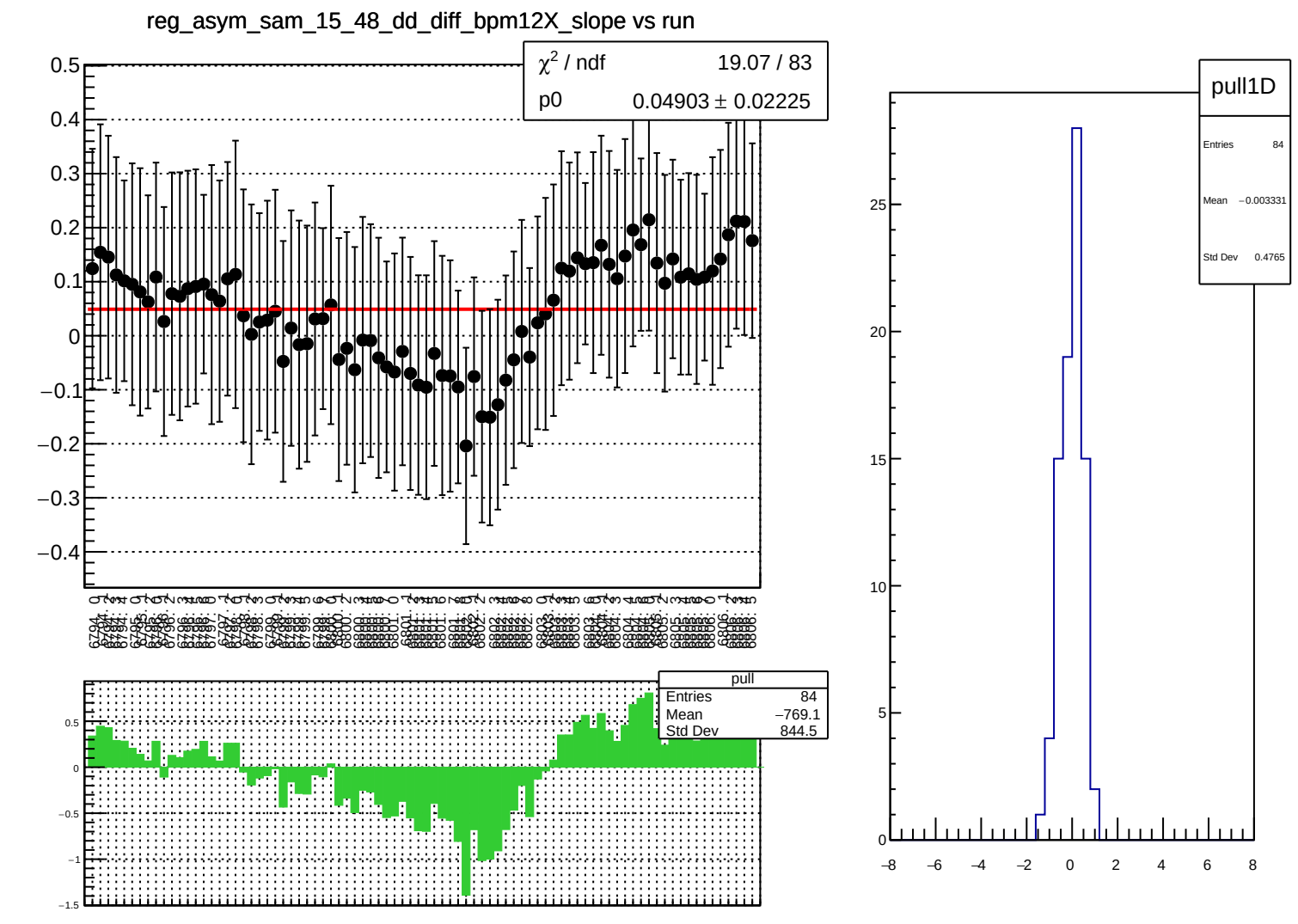

pull1D
Entries 84
Mean −0.0005167
Std Dev 0.3983

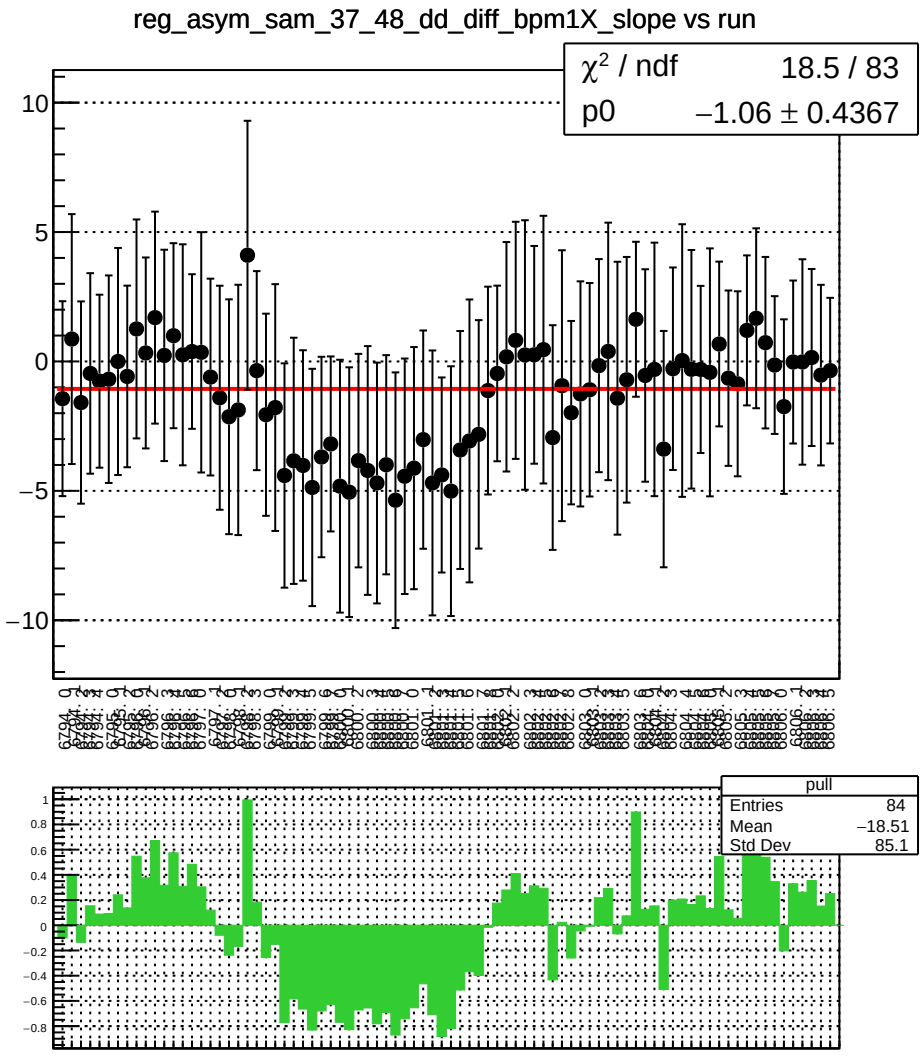

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.41 / 83
p0 48.3 ± 0.5179
pull
Entries 84
Mean −116.4
Std Dev 167.1

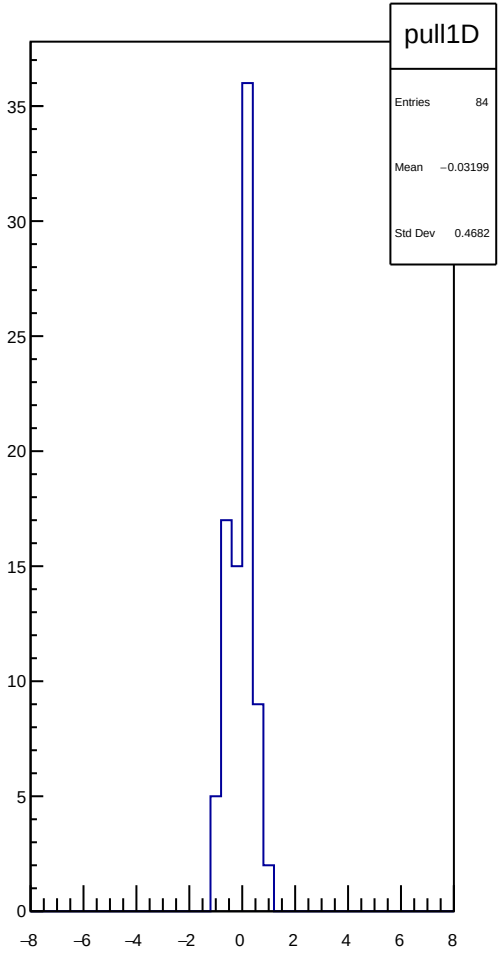

pull1D
Entries 84
Mean −0.01742
Std Dev 0.4549

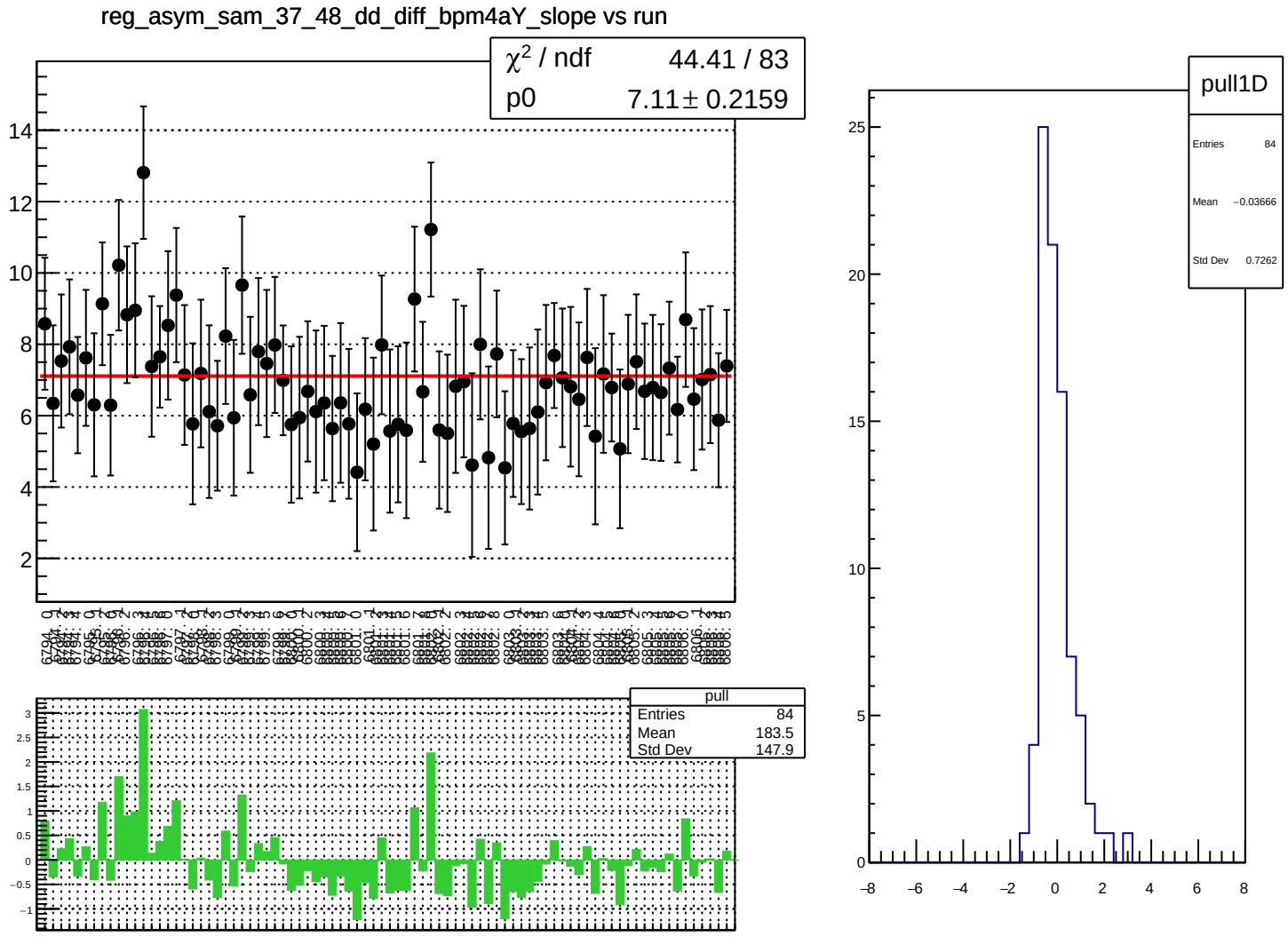

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.86 / 83
p0 −38.7 ± 0.3764
pull
Entries 84
Mean −1581
Std Dev 1613

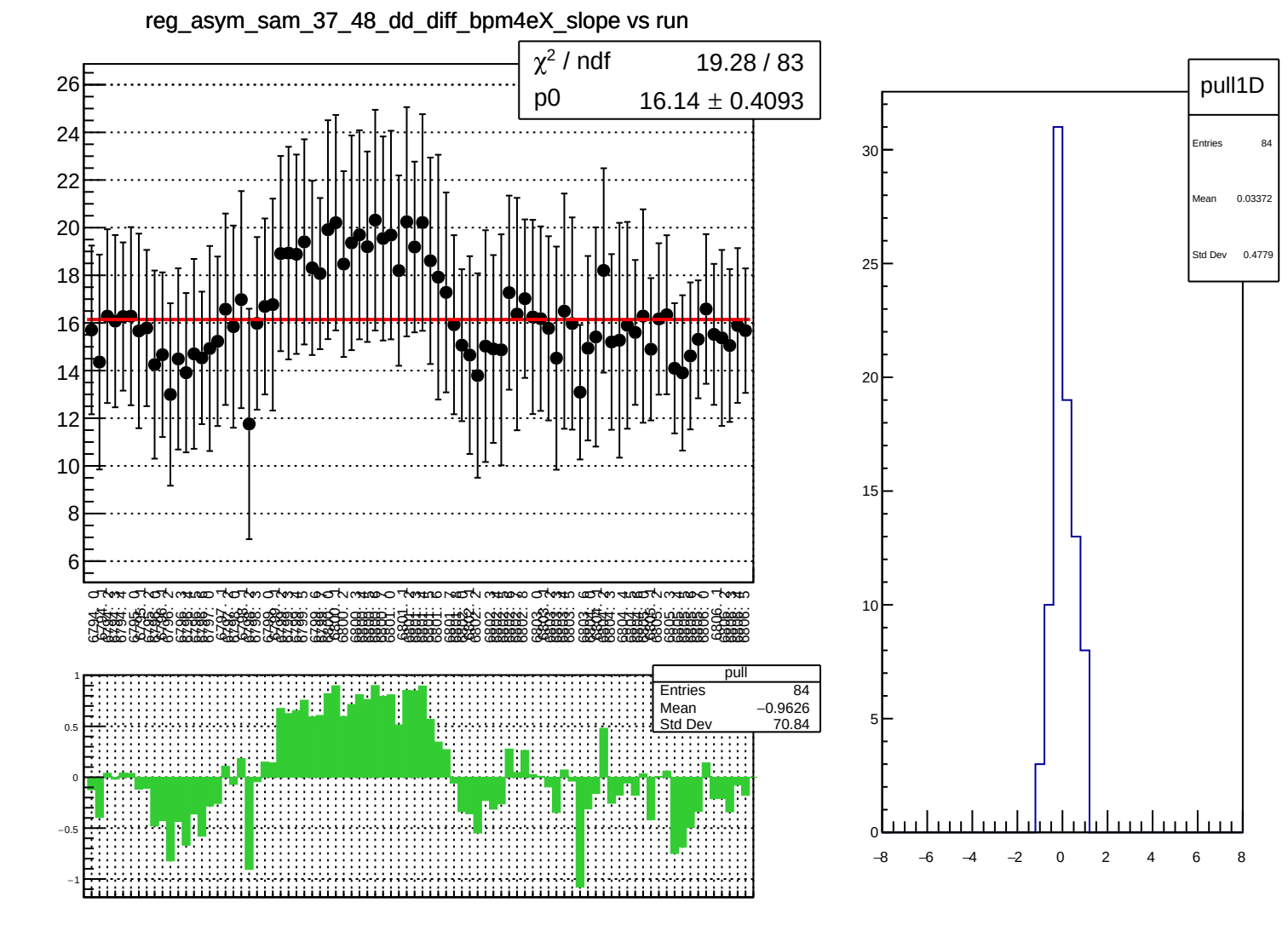

pull1D
Entries 84
Mean −0.0006592
Std Dev 0.461

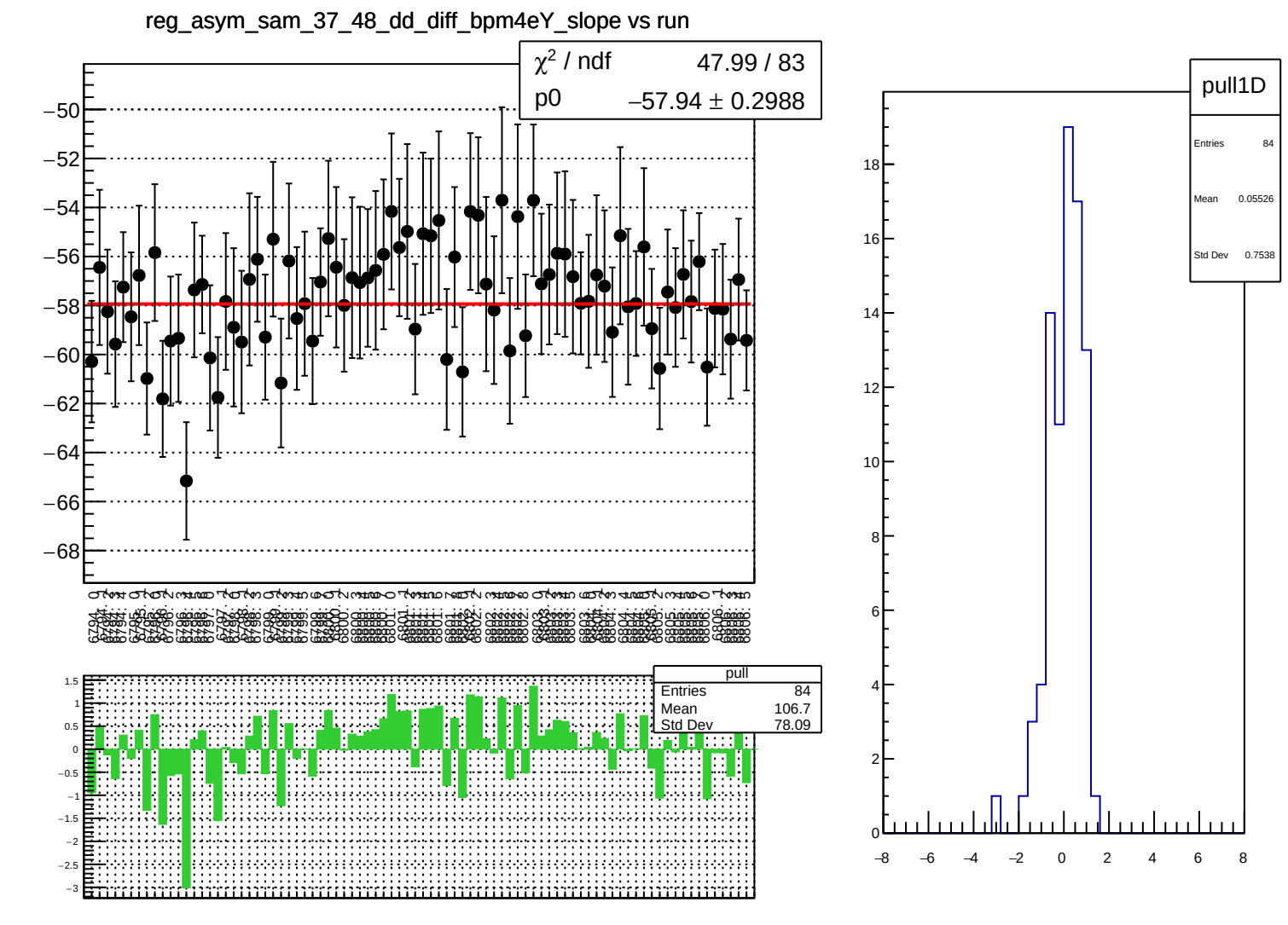

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 19.07 / 83
p0 0.04903 ± 0.02225
pull
Entries 84
Mean −769.1
Std Dev 844.5
pull1D
Entries 84
Mean −0.003331
Std Dev 0.4765

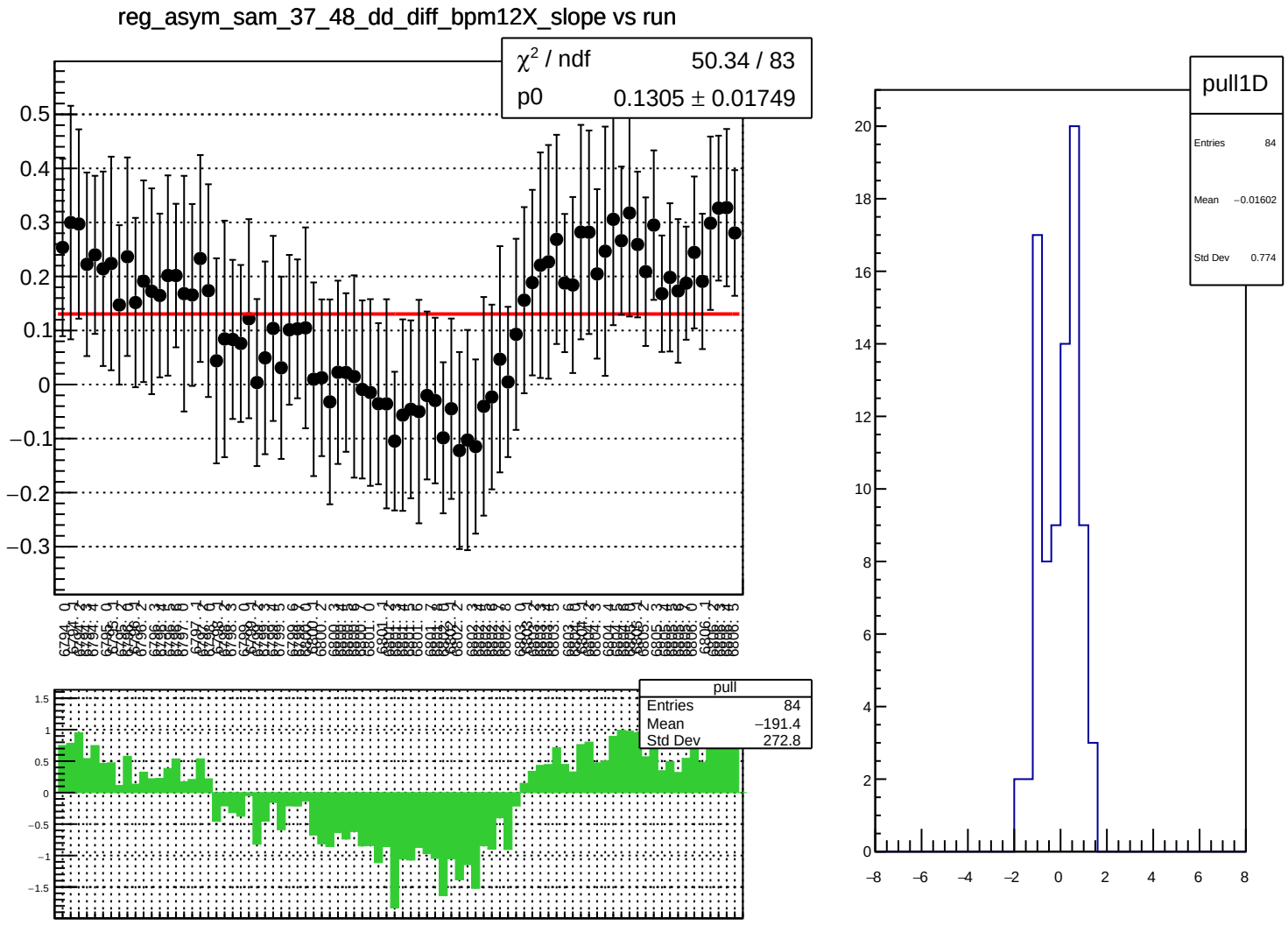

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 18.5 / 83
p0 −1.06 ± 0.4367
pull
Entries 84
Mean −18.51
Std Dev 85.1

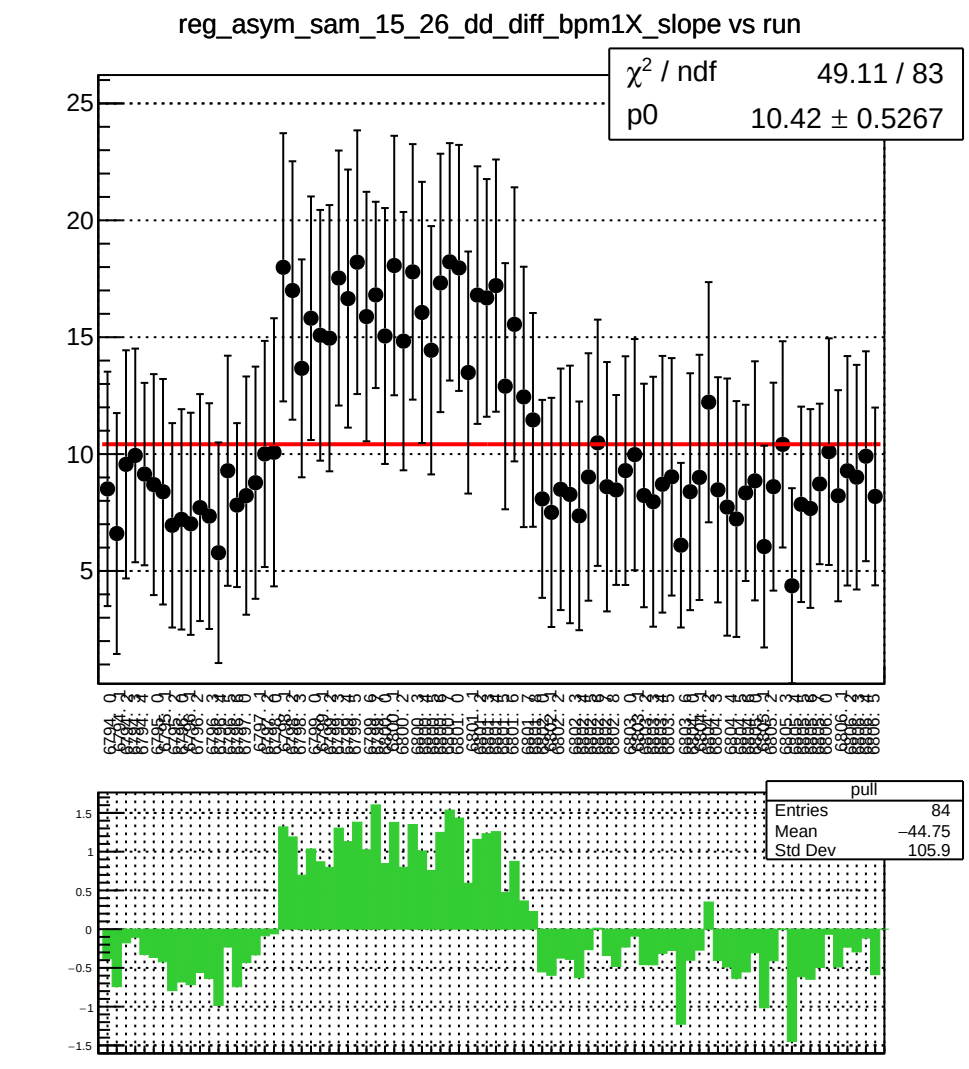

pull1D
Entries 84
Mean −0.03199
Std Dev 0.4682

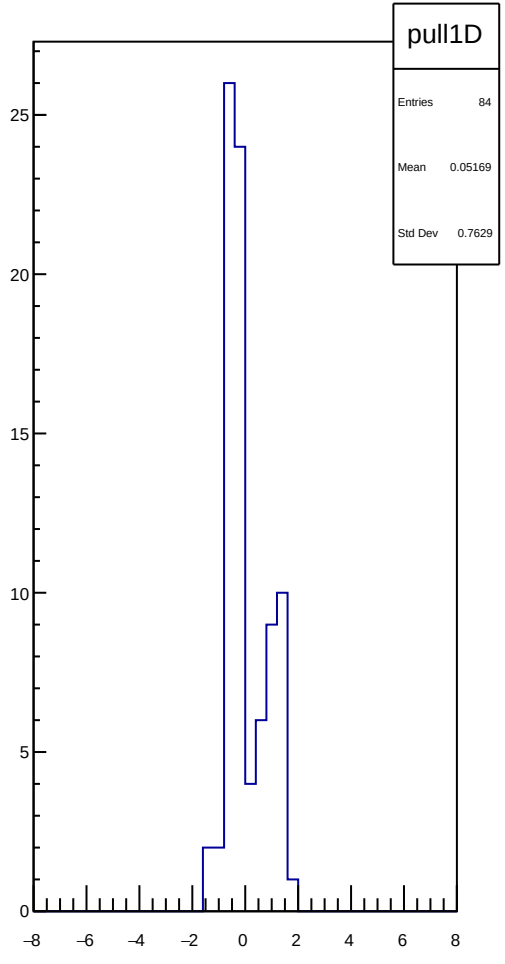

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.41 / 83
p0 7.11 ± 0.2159
pull
Entries 84
Mean 183.5
Std Dev 147.9
pull1D
Entries 84
Mean −0.03666
Std Dev 0.7262

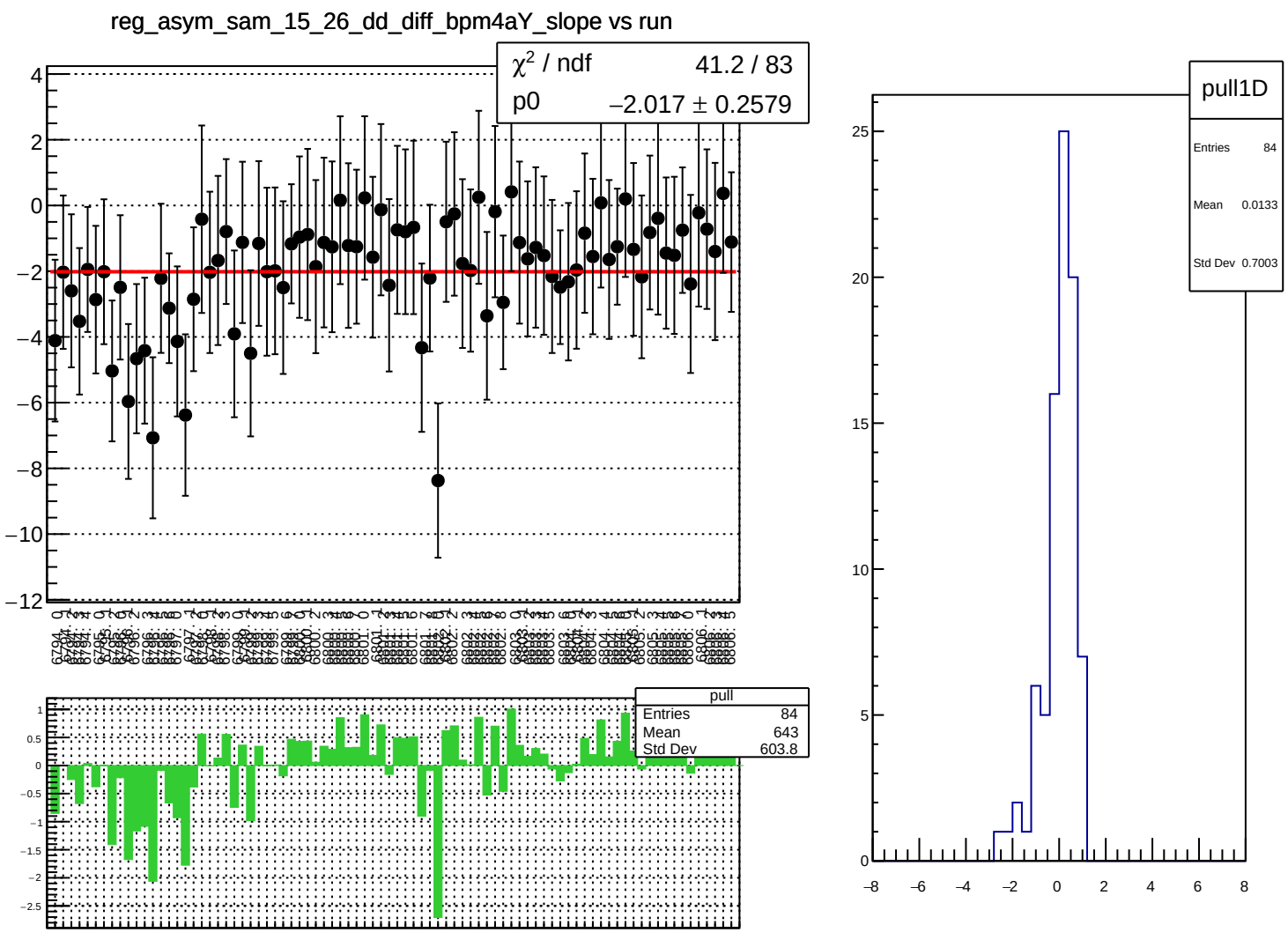

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.28 / 83
p0 16.14 ± 0.4093
pull
Entries 84
Mean −0.9626
Std Dev 70.84
pull1D
Entries 84
Mean 0.03372
Std Dev 0.4779

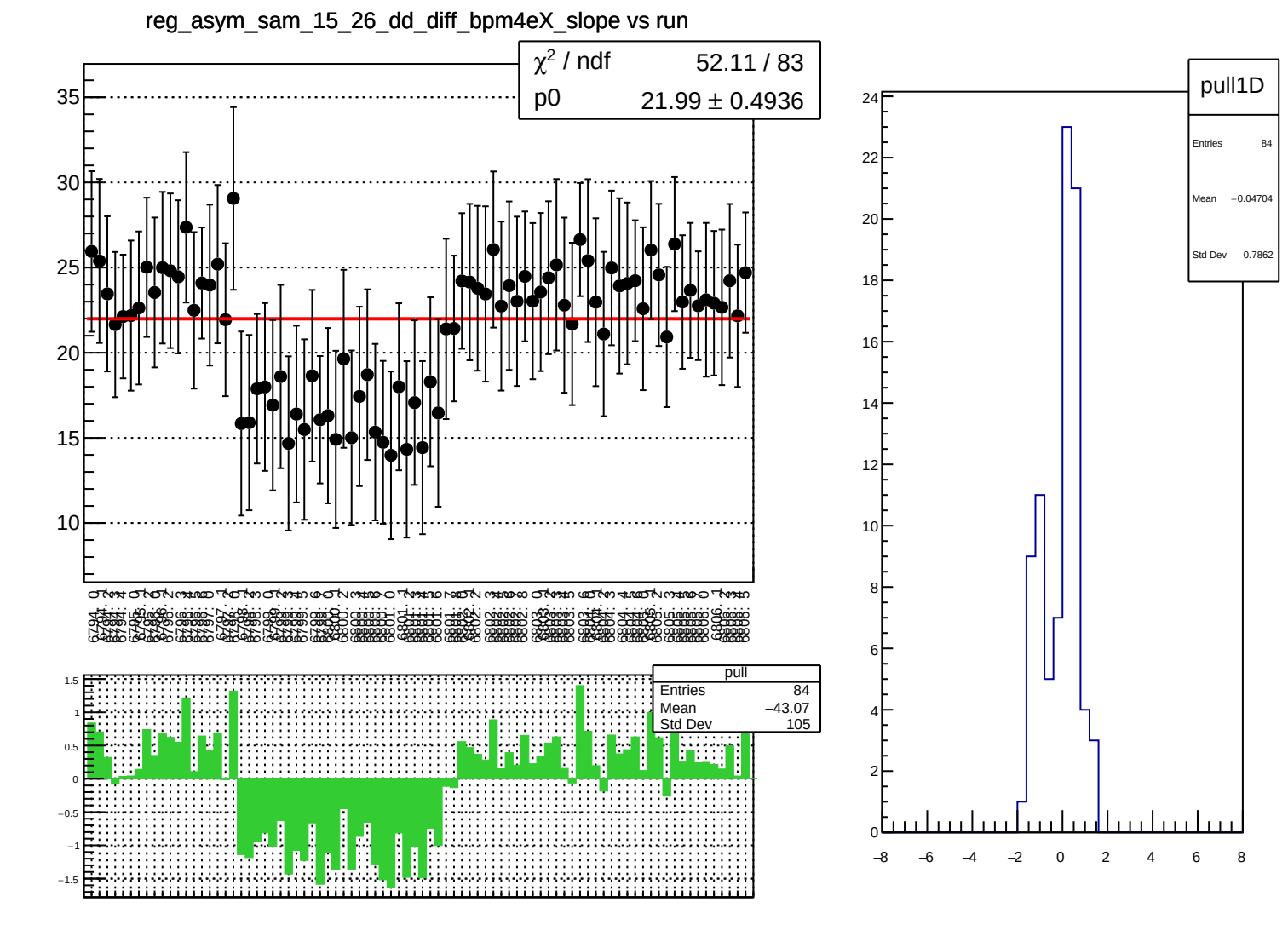

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.99 / 83
p0 −57.94 ± 0.2988
pull
Entries 84
Mean 106.7
Std Dev 78.09
pull1D
Entries 84
Mean 0.05526
Std Dev 0.7538

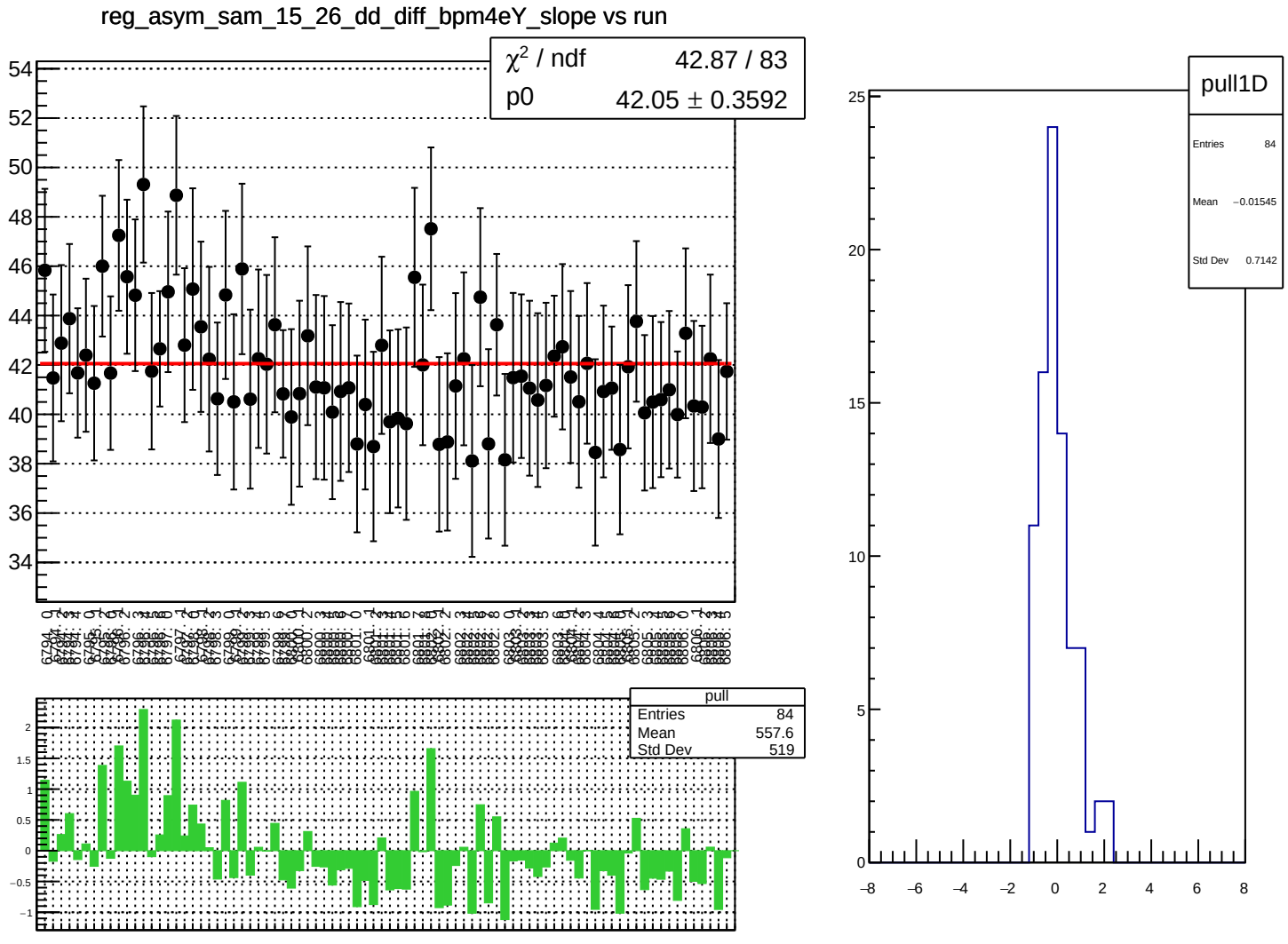

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 50.34 / 83
p0 0.1305 ± 0.01749
pull
Entries 84
Mean −191.4
Std Dev 272.8
pull1D
Entries 84
Mean −0.01602
Std Dev 0.774

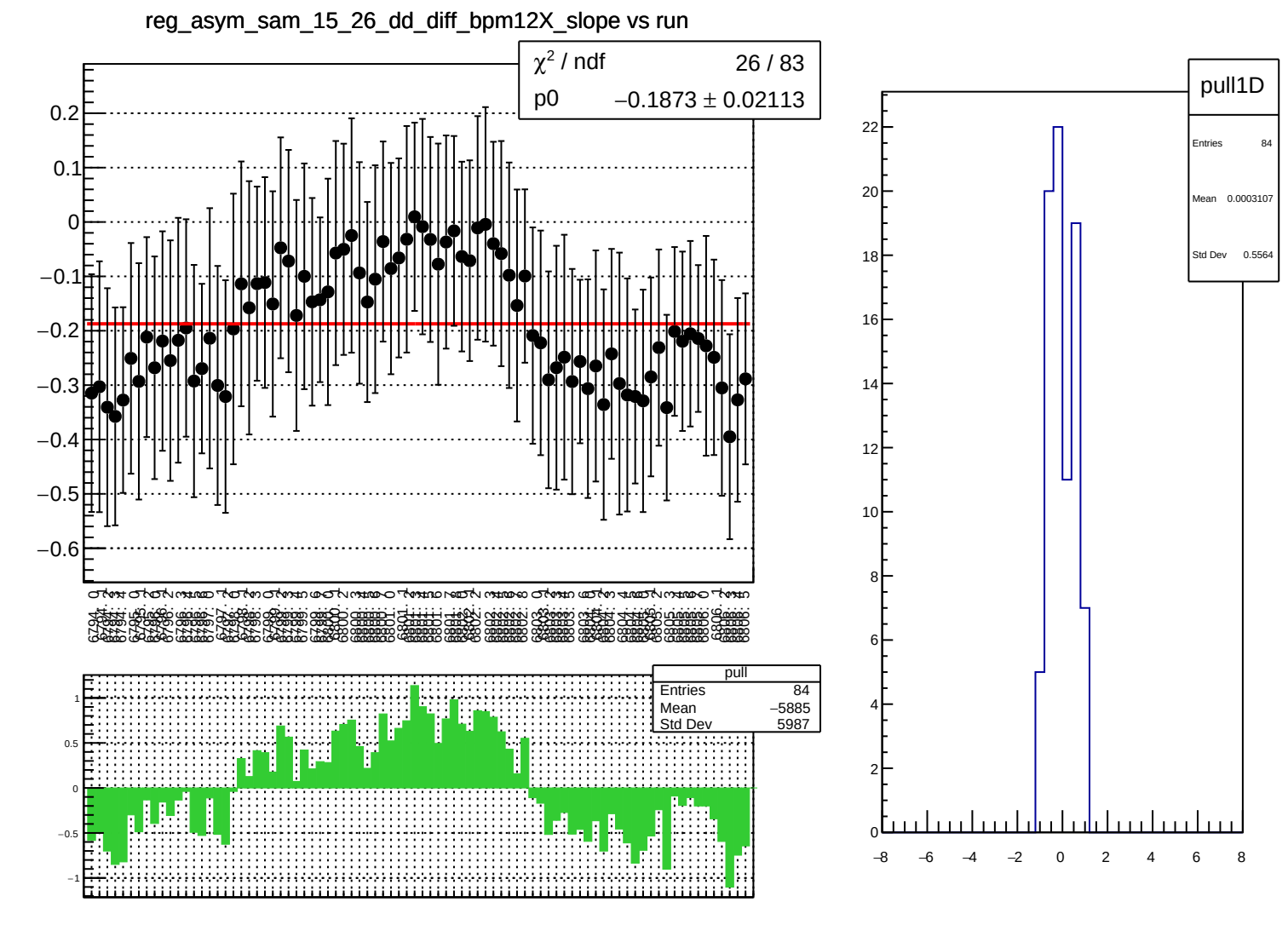

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 49.11 / 83
p0 10.42 ± 0.5267
pull
Entries 84
Mean −44.75
Std Dev 105.9

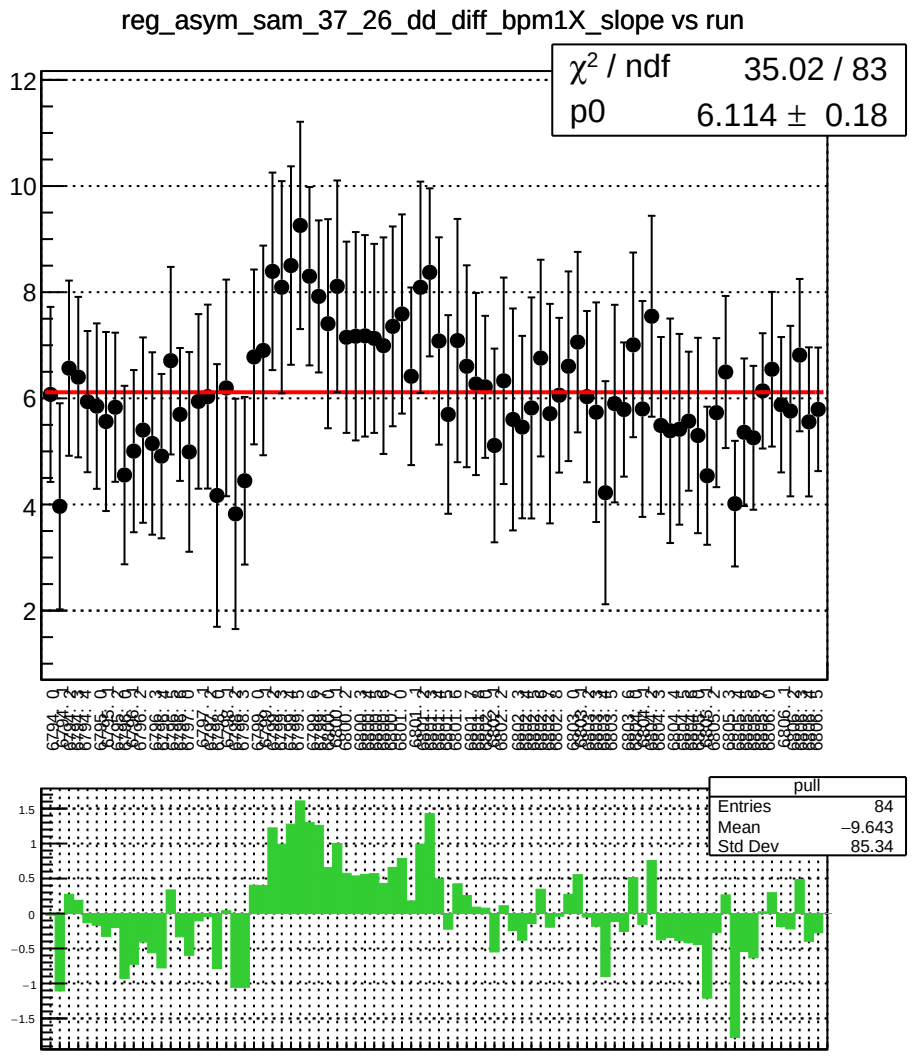

pull1D
Entries 84
Mean 0.05169
Std Dev 0.7629

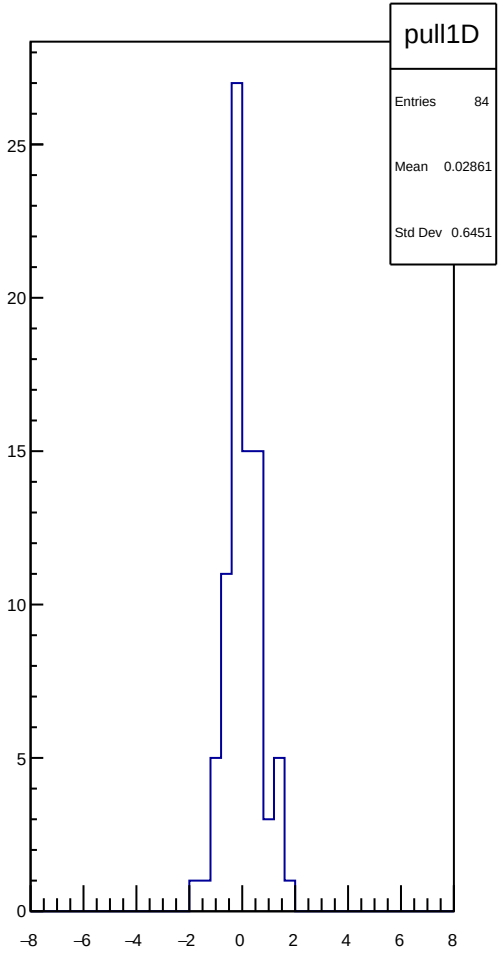

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.2 / 83
p0 −2.017 ± 0.2579
pull
Entries 84
Mean 643
Std Dev 603.8
pull1D
Entries 84
Mean 0.0133
Std Dev 0.7003

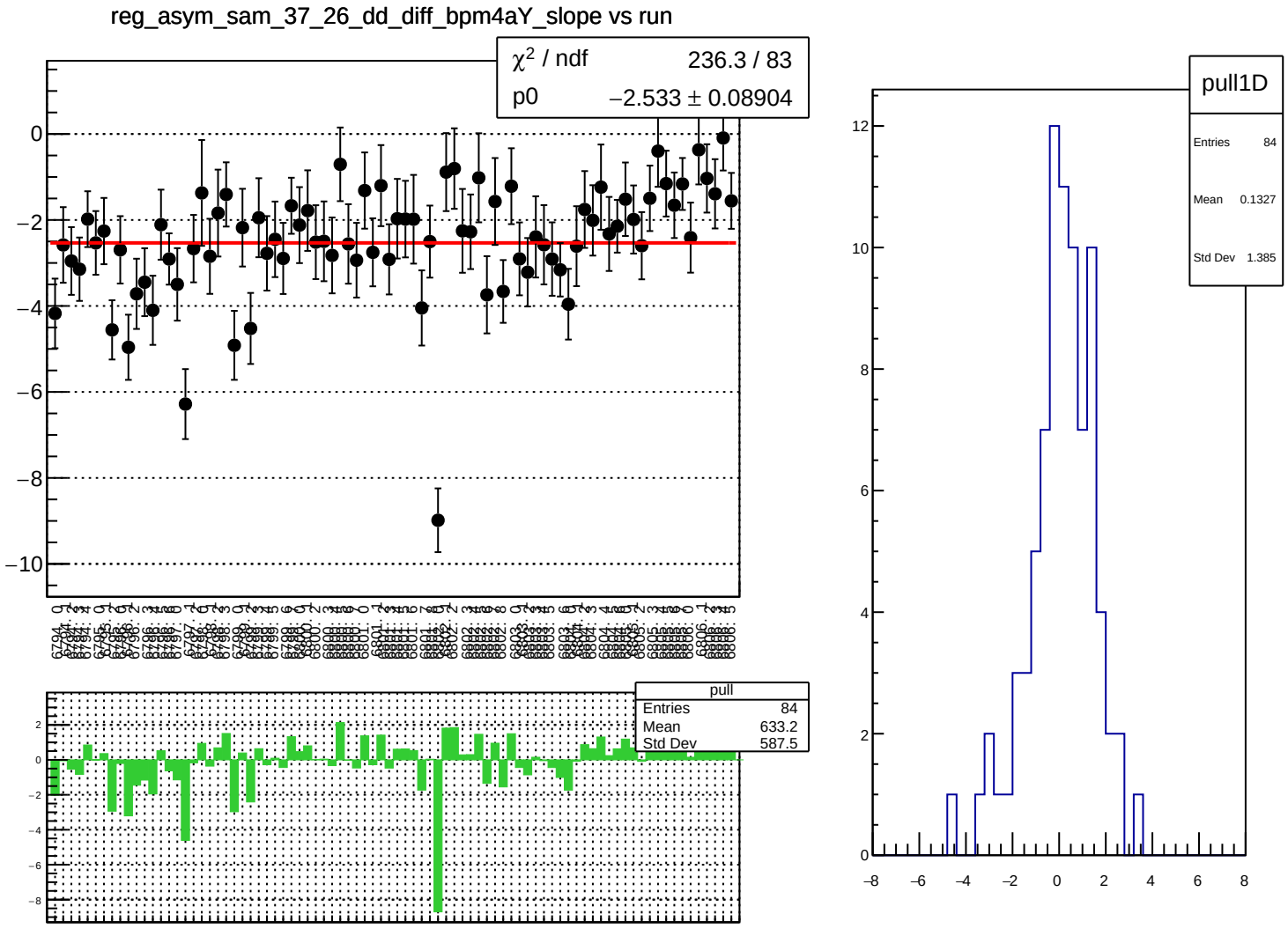

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.11 / 83
p0 21.99 ± 0.4936
pull
Entries 84
Mean −43.07
Std Dev 105
pull1D
Entries 84
Mean −0.04704
Std Dev 0.7862

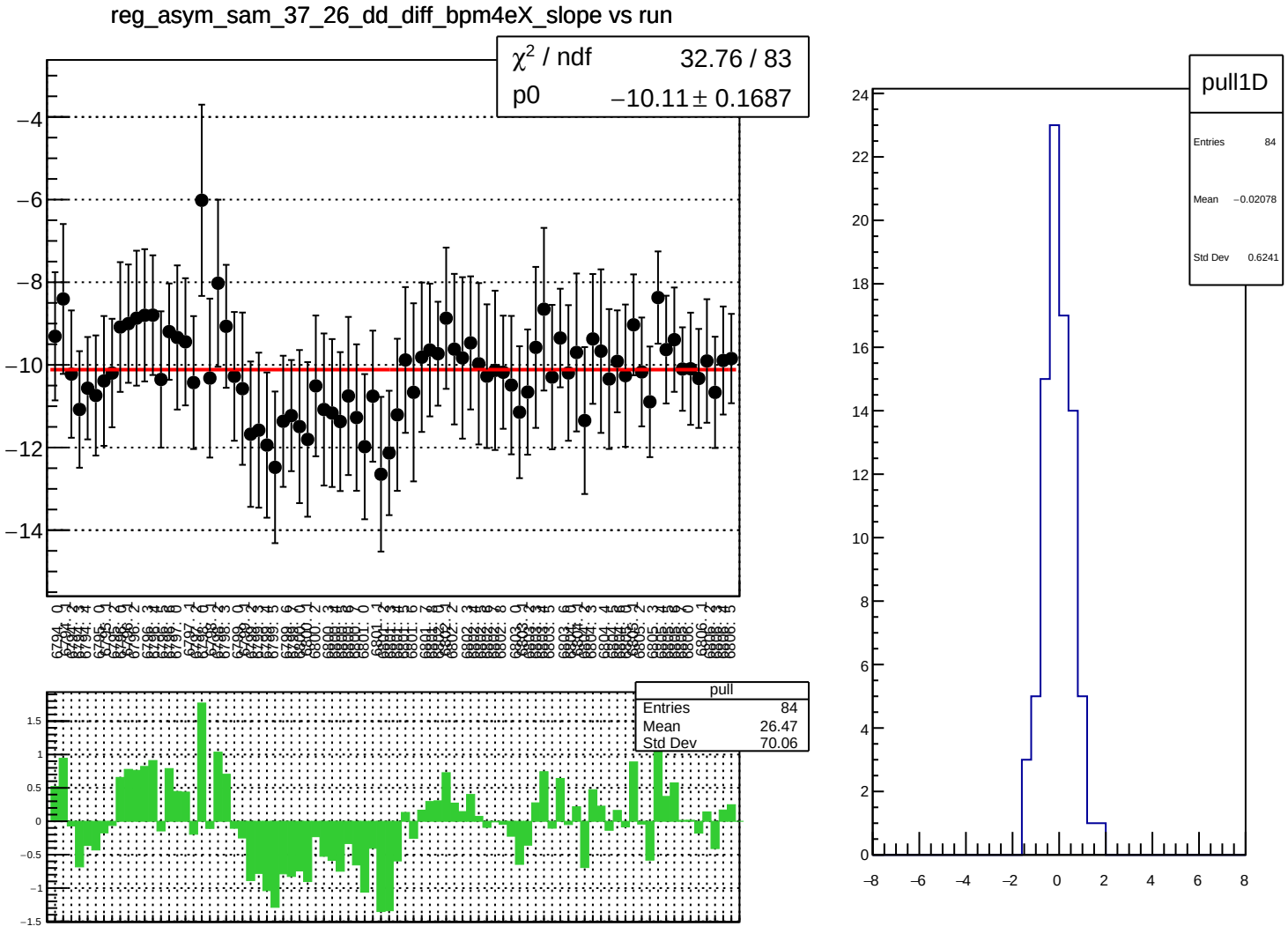

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.87 / 83
p0 42.05 ± 0.3592
pull
Entries 84
Mean 557.6
Std Dev 519
pull1D
Entries 84
Mean −0.01545
Std Dev 0.7142

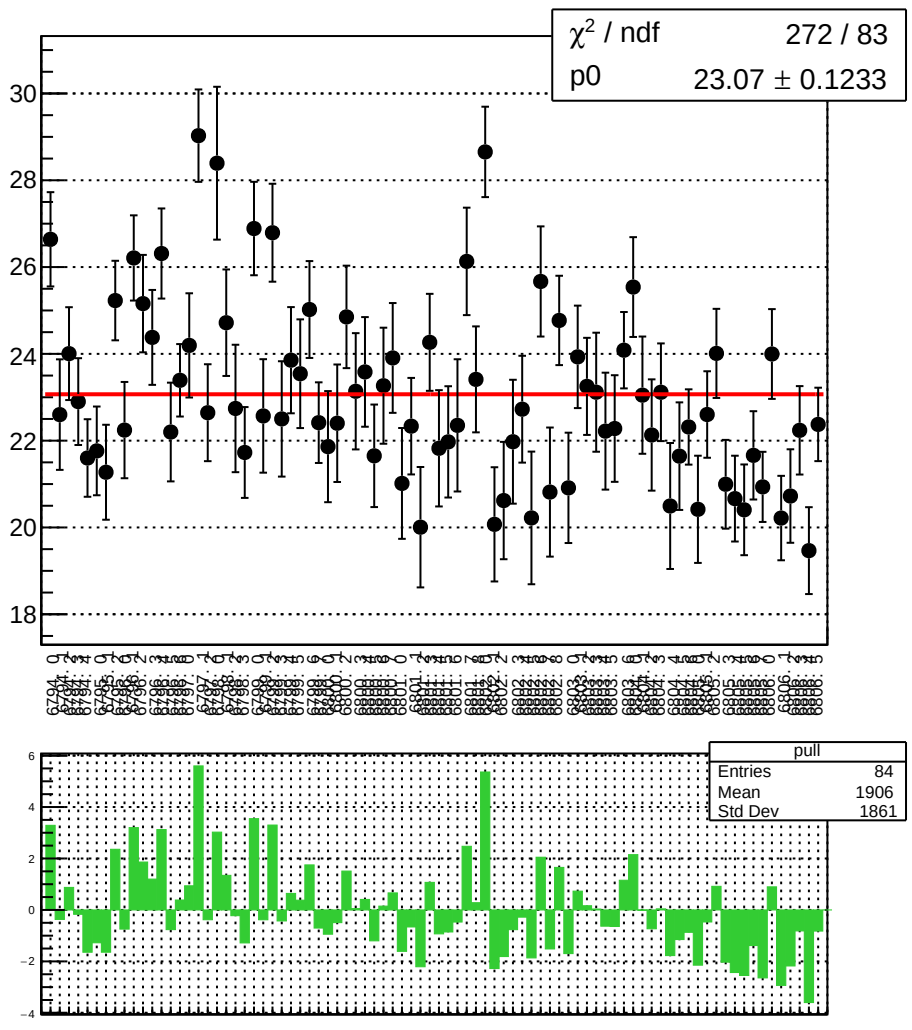

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 26 / 83
p0 −0.1873 ± 0.02113
pull
Entries 84
Mean −5885
Std Dev 5987
pull1D
Entries 84
Mean 0.0003107
Std Dev 0.5564

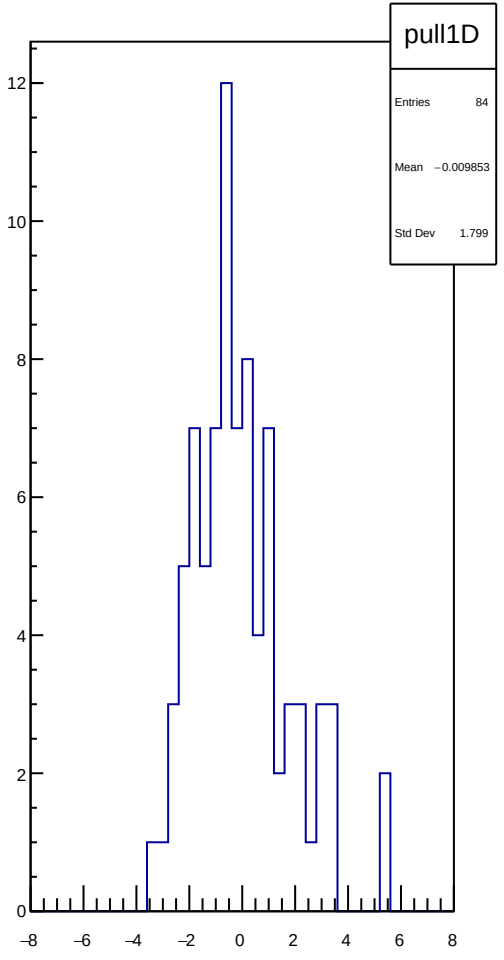

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 35.02 / 83
p0 6.114 ± 0.18
pull
Entries 84
Mean −9.643
Std Dev 85.34

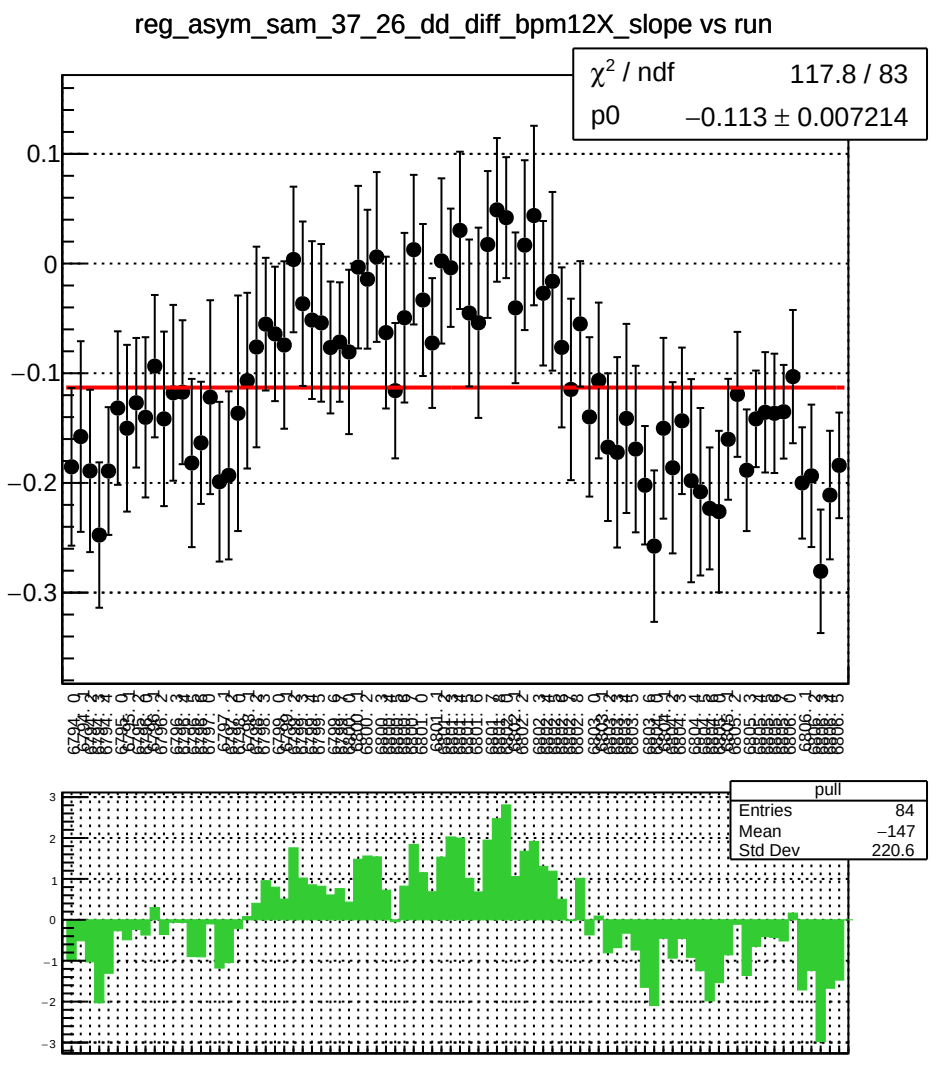

pull1D
Entries 84
Mean 0.02861
Std Dev 0.6451

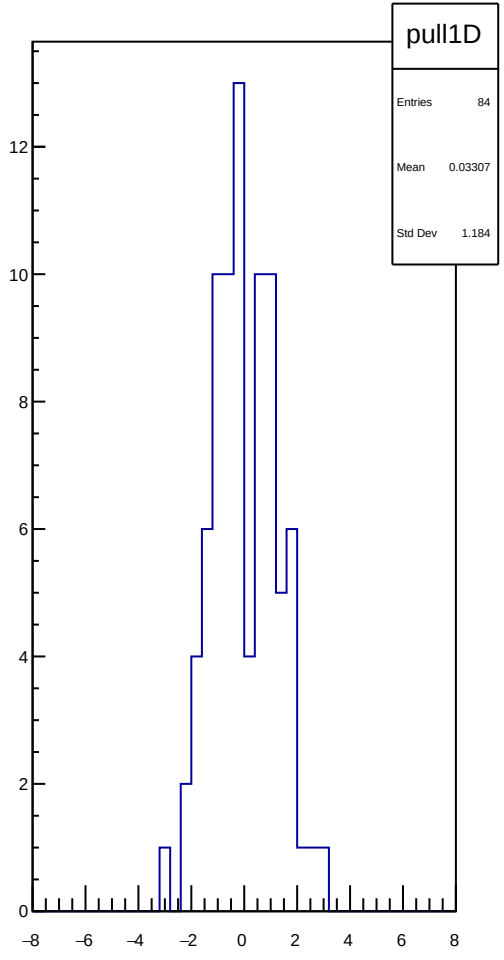

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 236.3 / 83
p0 −2.533 ± 0.08904
pull
Entries 84
Mean 633.2
Std Dev 587.5
pull1D
Entries 84
Mean 0.1327
Std Dev 1.385

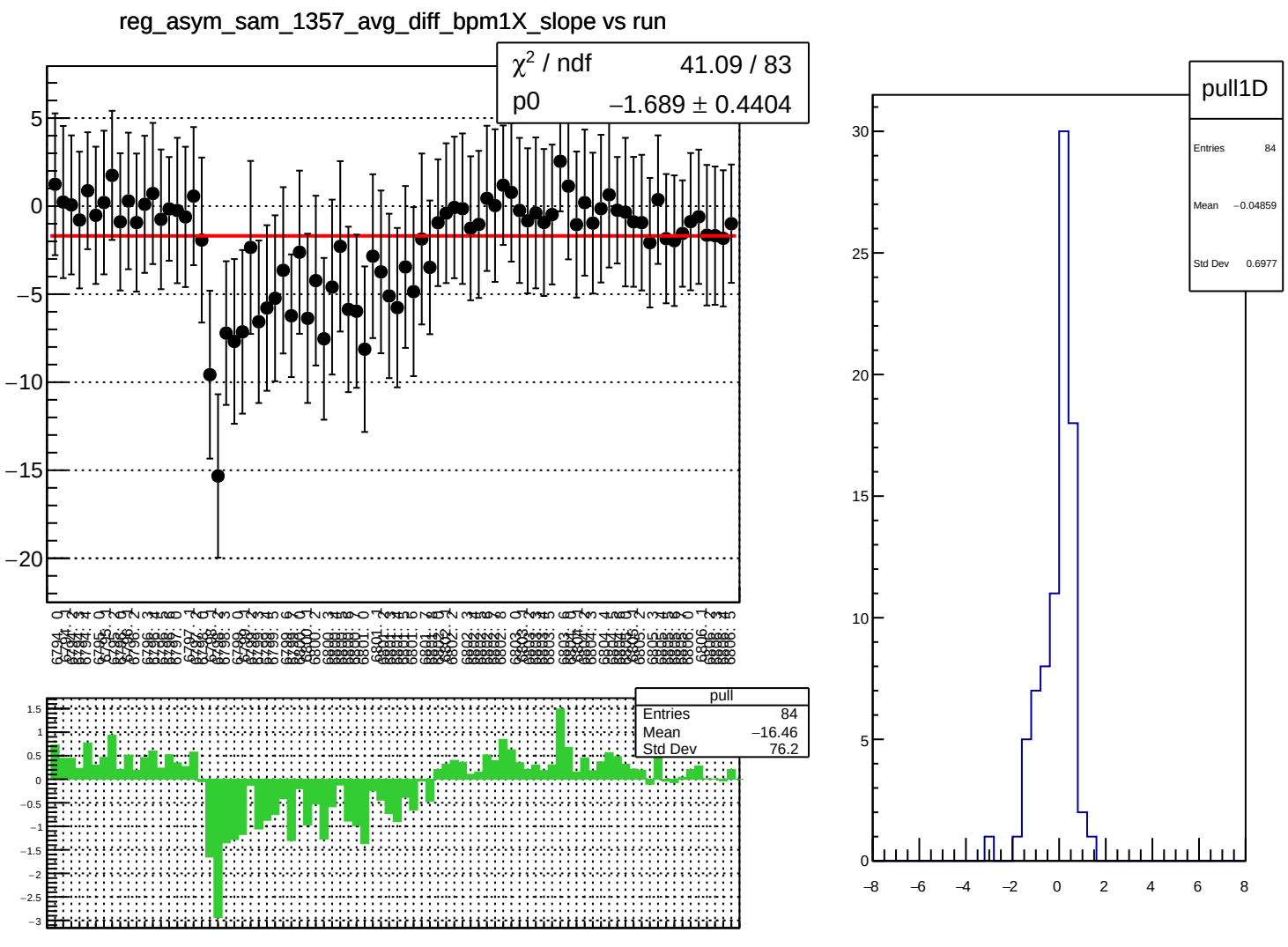

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.76 / 83
p0 −10.11 ± 0.1687
pull
Entries 84
Mean 26.47
Std Dev 70.06
pull1D
Entries 84
Mean −0.02078
Std Dev 0.6241

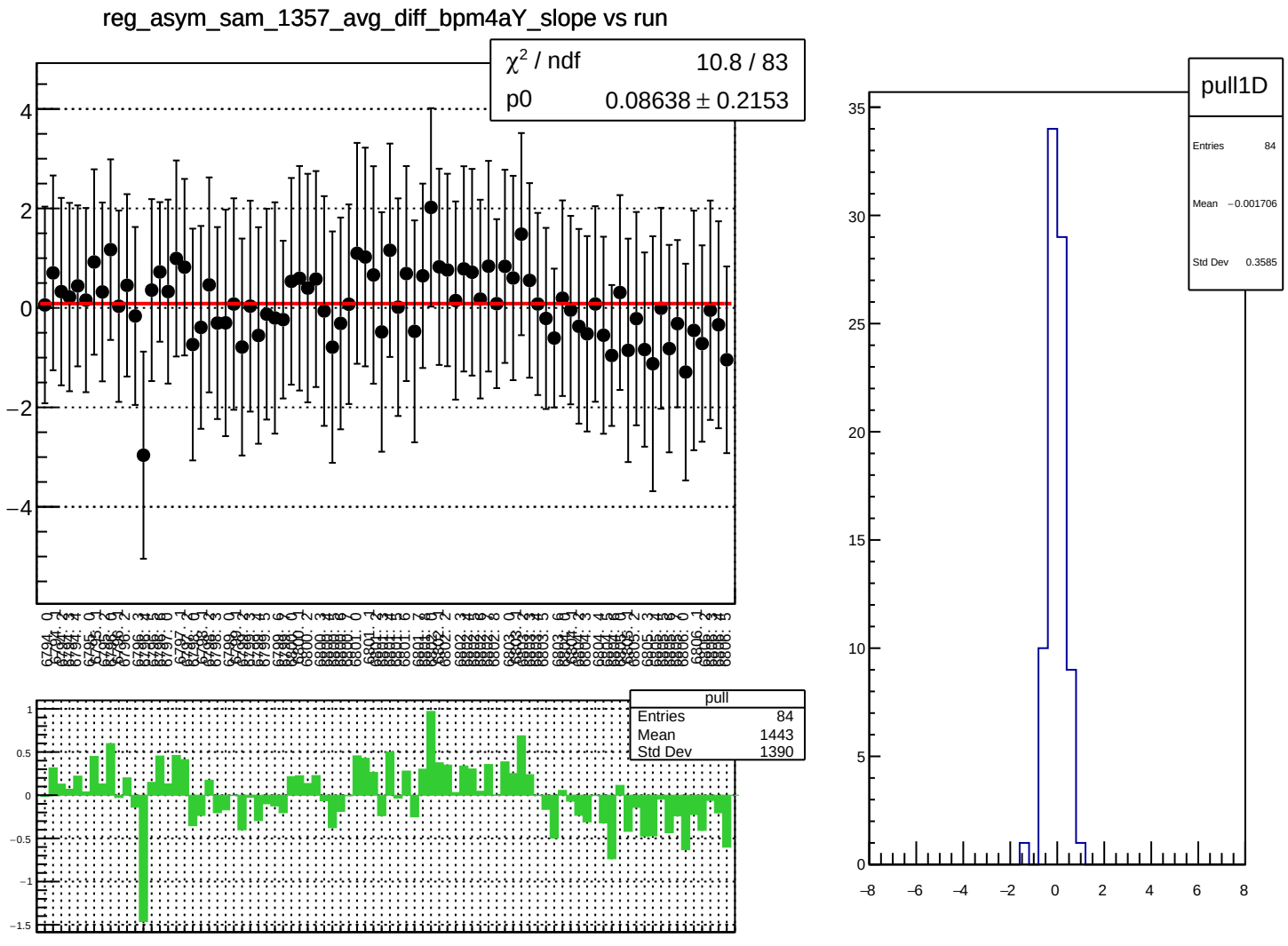

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 272 / 83
p0 23.07 ± 0.1233
pull
Entries 84
Mean 1906
Std Dev 1861

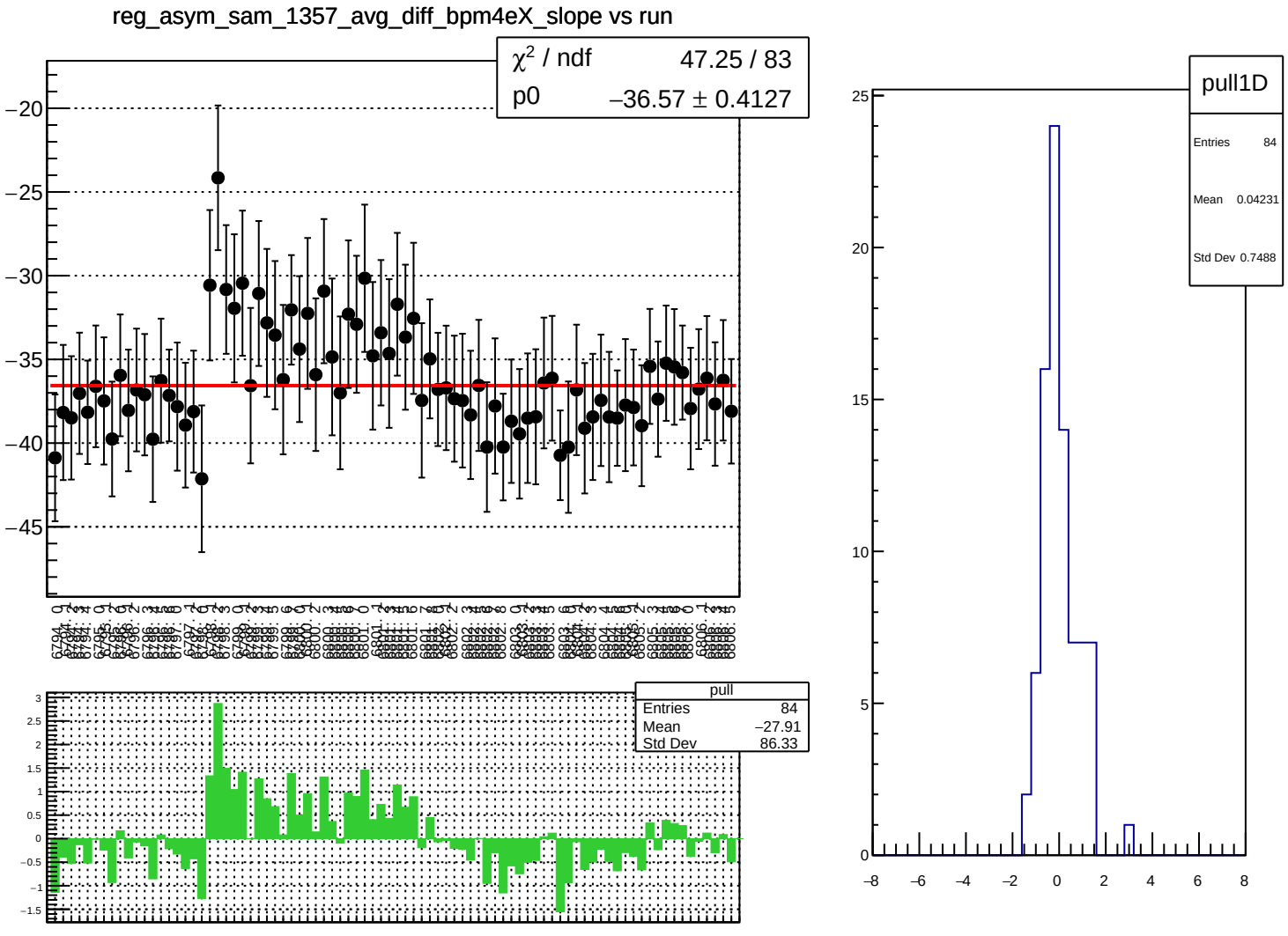

pull1D
Entries 84
Mean −0.009853
Std Dev 1.799

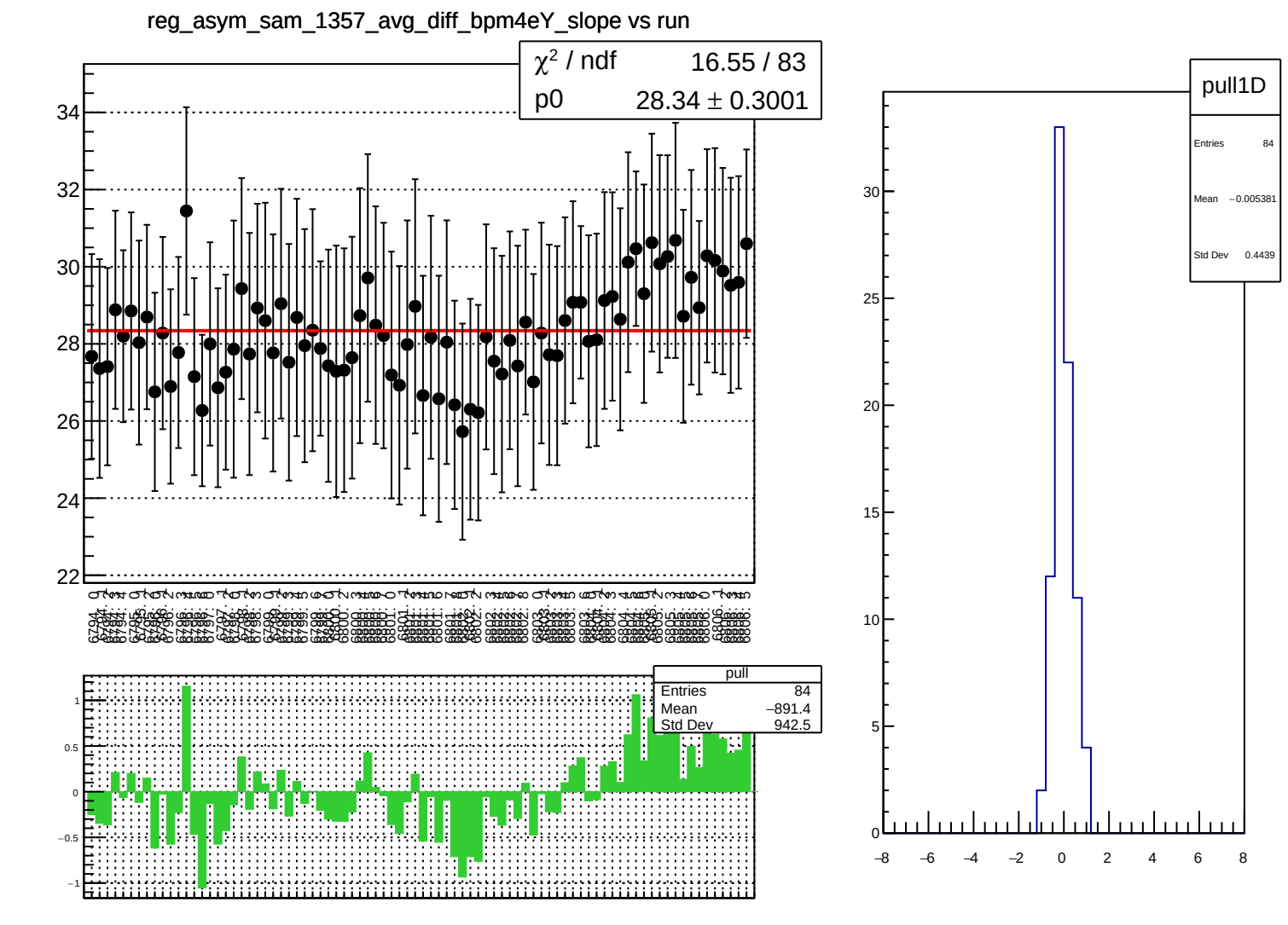

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 117.8 / 83
p0 −0.113 ± 0.007214
0.1
0
−0.1
−0.2
−0.3
pull
Entries 84
Mean −147
Std Dev 220.6
3
2
1
0
−1
−2
−3

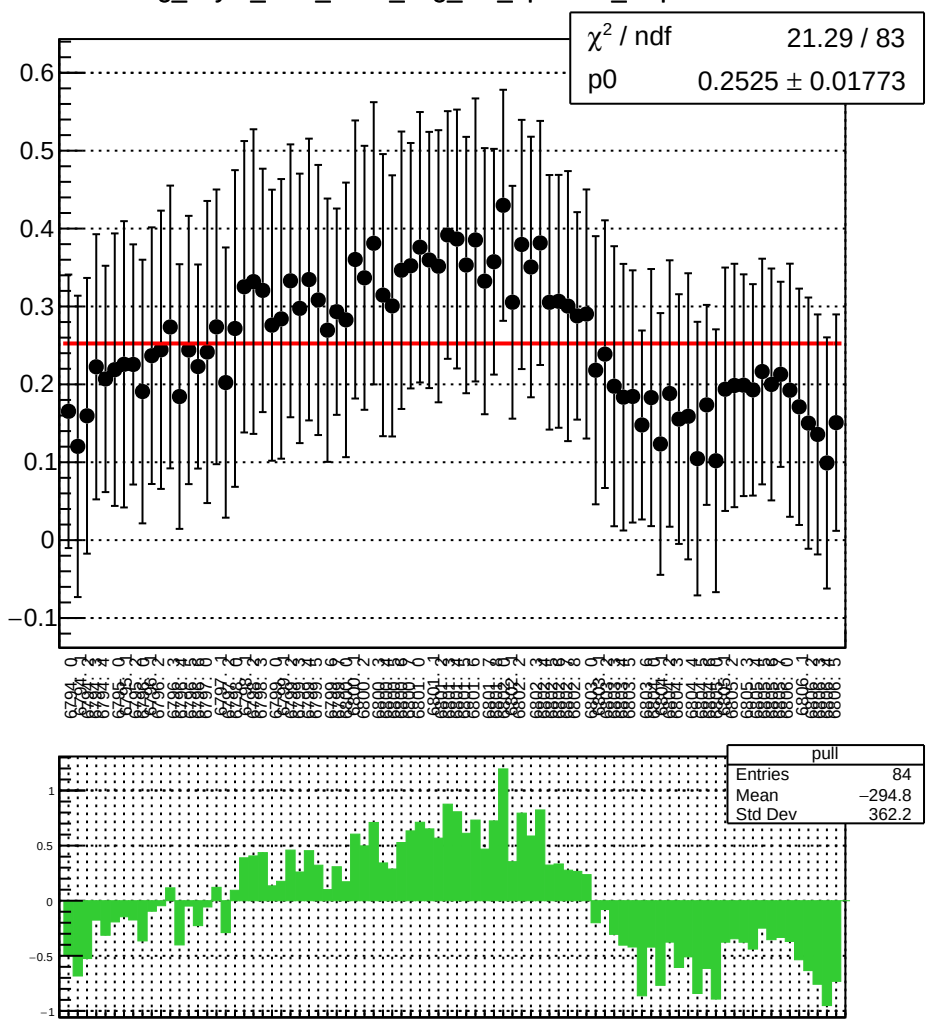

pull1D
Entries 84
Mean 0.03307
Std Dev 1.184
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

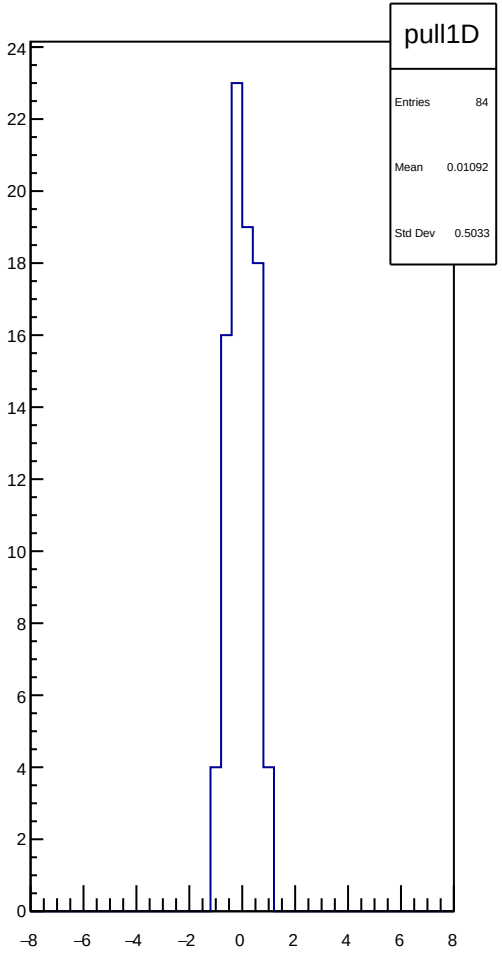

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 41.09 / 83
p0 −1.689 ± 0.4404
pull
Entries 84
Mean −16.46
Std Dev 76.2
pull1D
Entries 84
Mean −0.04859
Std Dev 0.6977

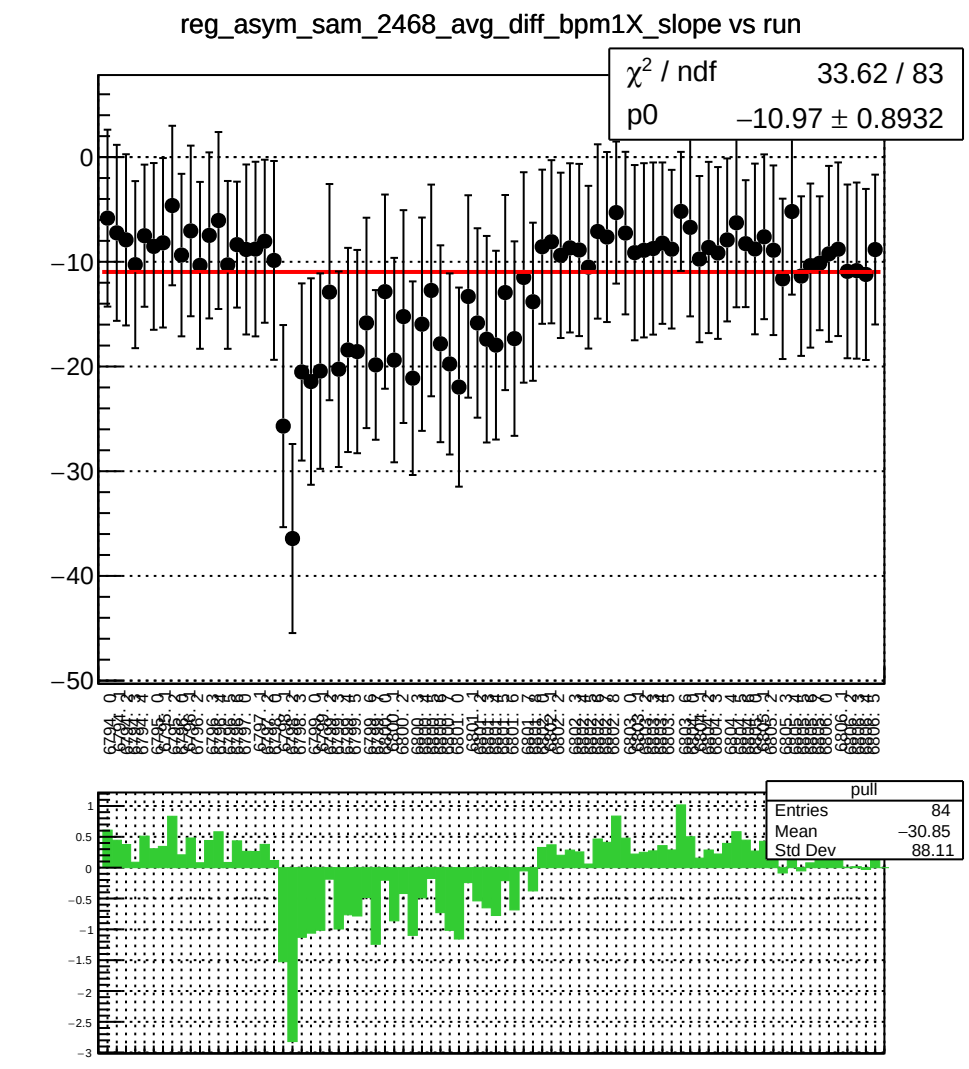

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.8 / 83
p0 0.08638 ± 0.2153
pull
Entries 84
Mean 1443
Std Dev 1390
pull1D
Entries 84
Mean −0.001706
Std Dev 0.3585

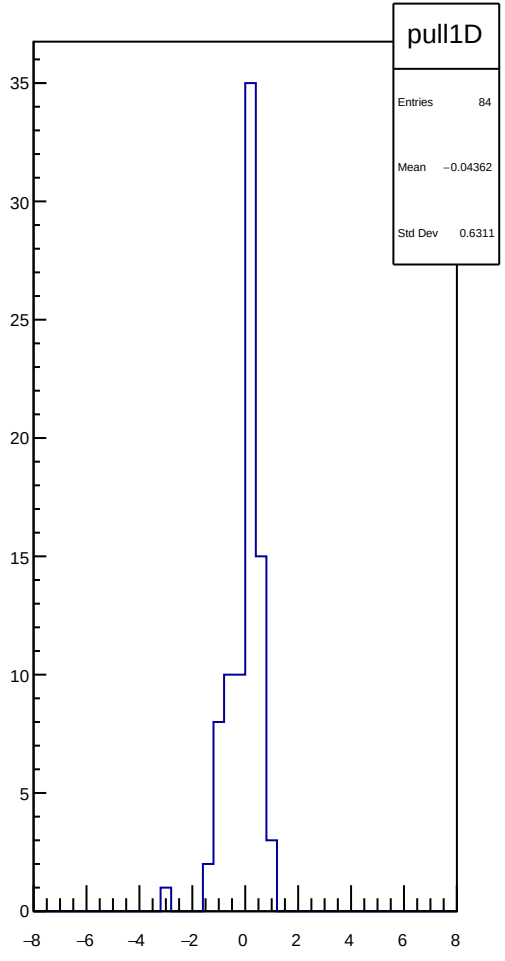

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.25 / 83
p0 −36.57 ± 0.4127
pull
Entries 84
Mean −27.91
Std Dev 86.33
pull1D
Entries 84
Mean 0.04231
Std Dev 0.7488

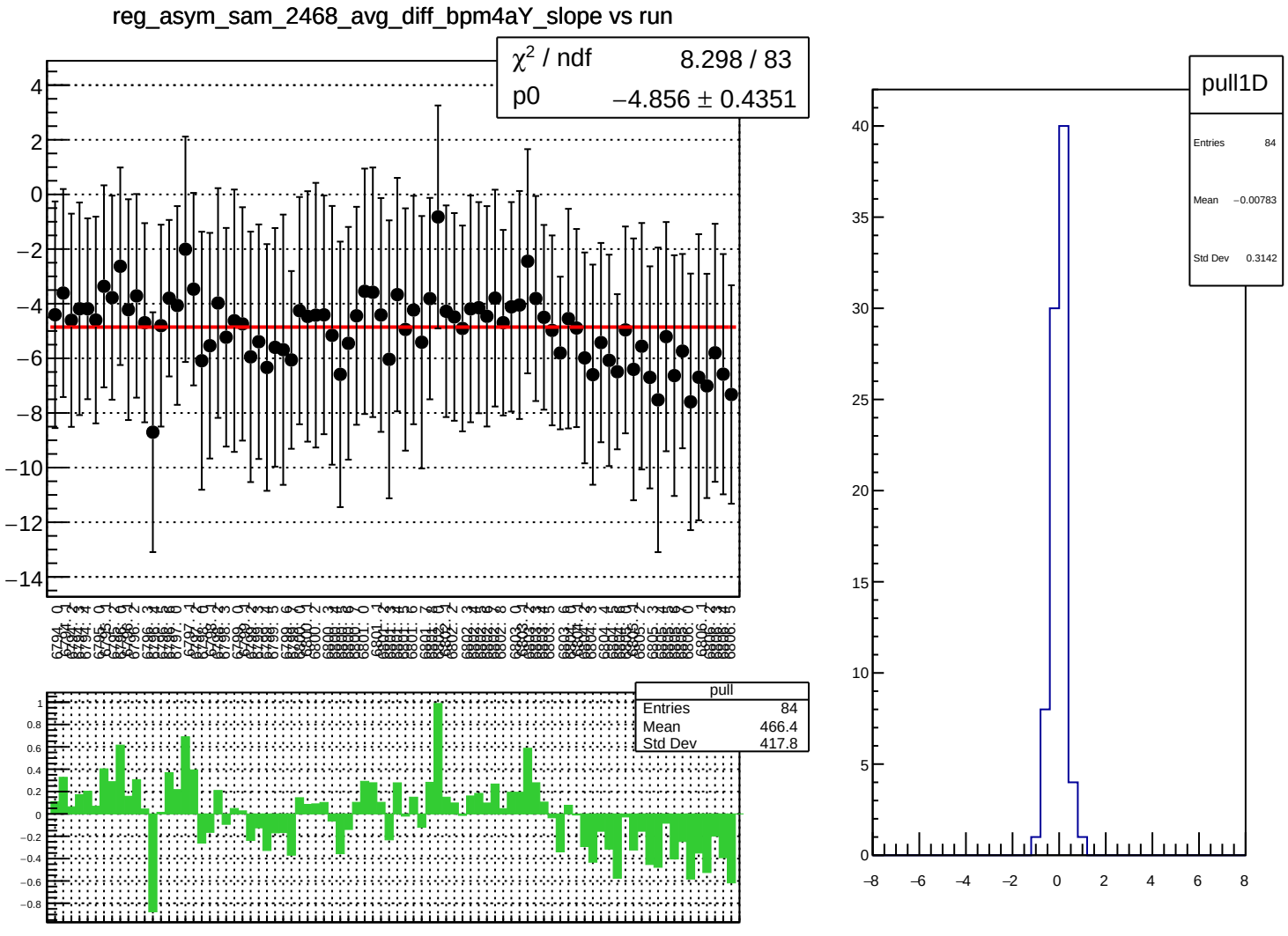

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.55 / 83
p0 28.34 ± 0.3001
pull
Entries 84
Mean −891.4
Std Dev 942.5
pull1D
Entries 84
Mean −0.005381
Std Dev 0.4439

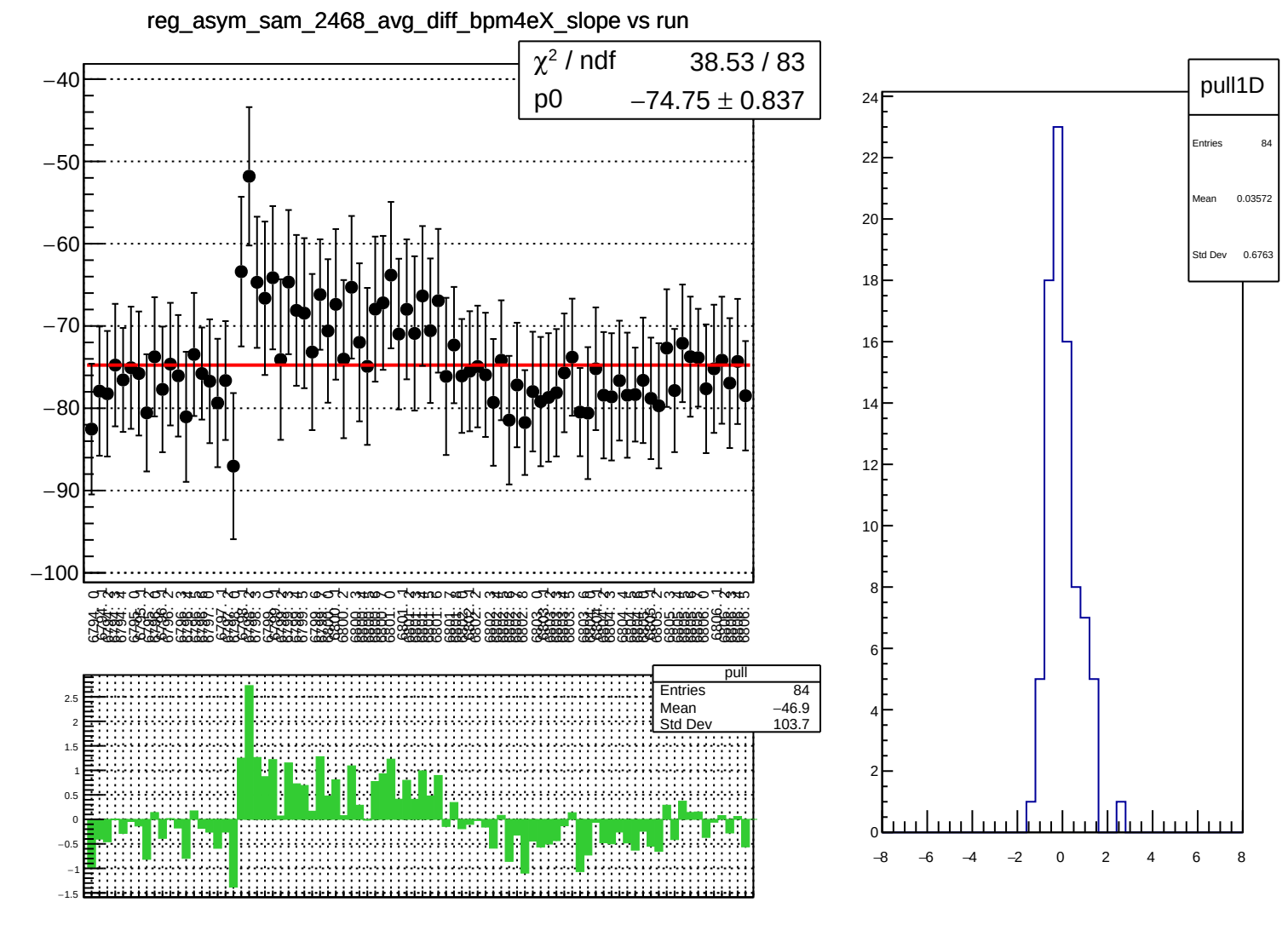

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 21.29 / 83
p0 0.2525 ± 0.01773
pull
Entries 84
Mean −294.8
Std Dev 362.2

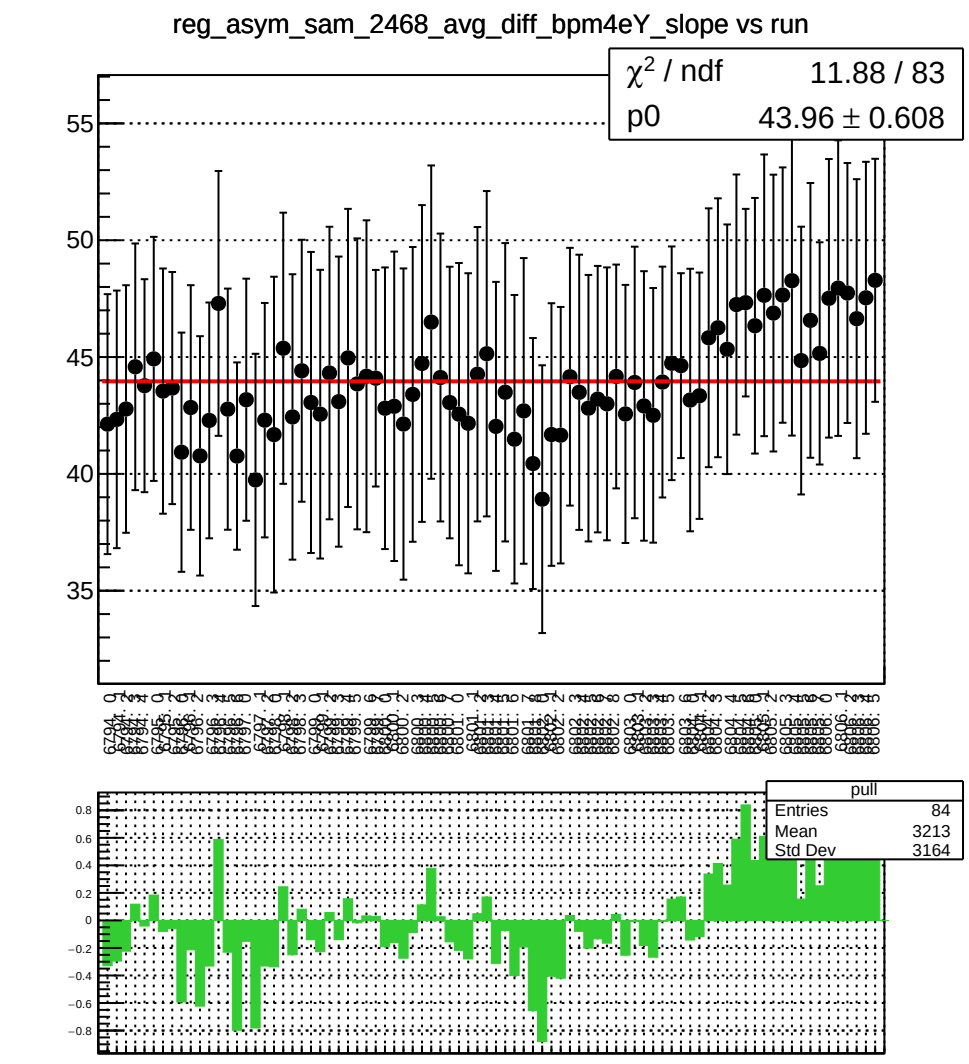

pull1D
Entries 84
Mean 0.01092
Std Dev 0.5033

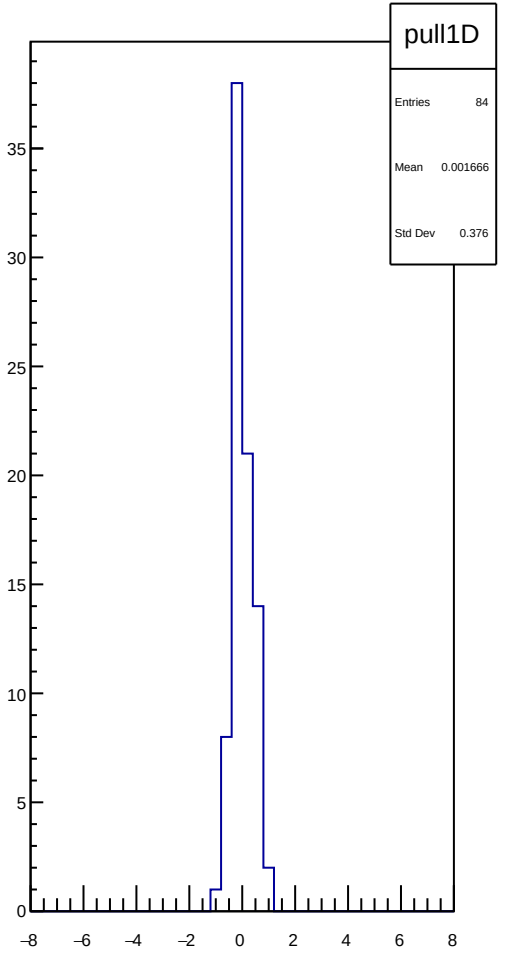

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 33.62 / 83
p0 −10.97 ± 0.8932
pull
Entries 84
Mean −30.85
Std Dev 88.11

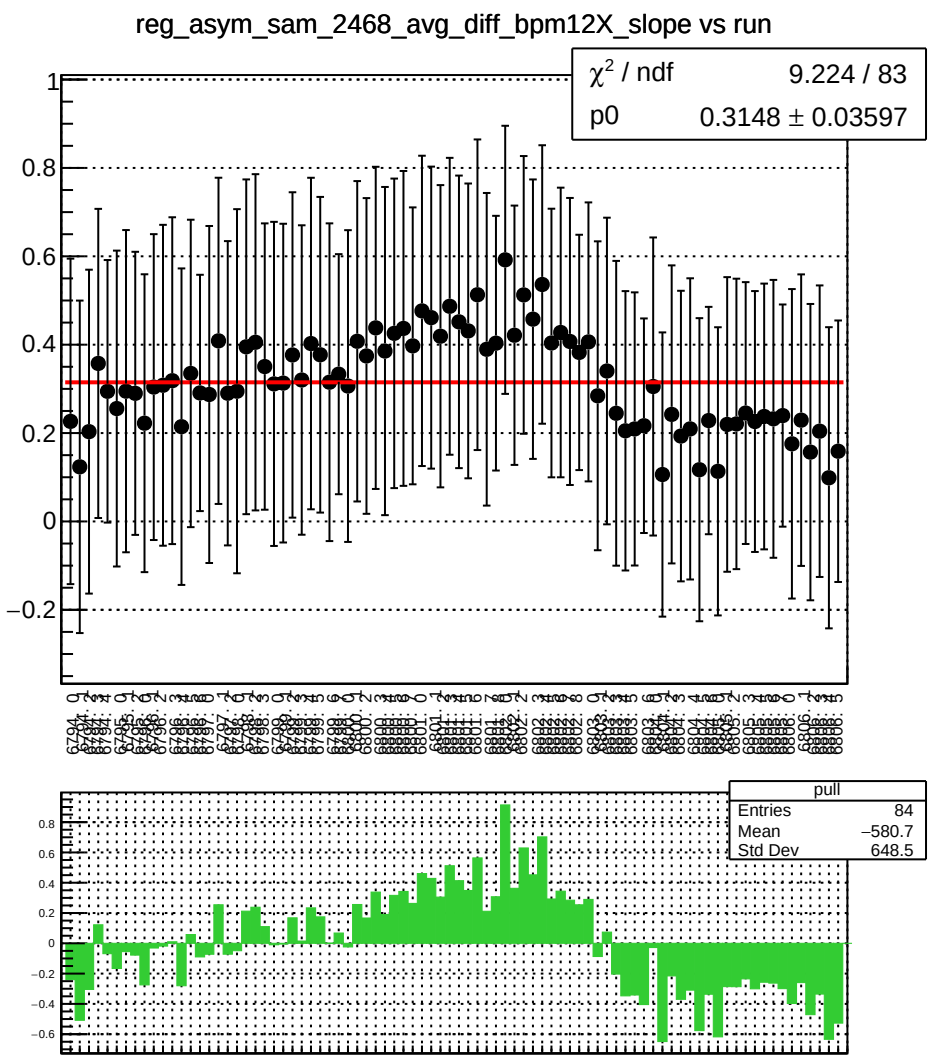

pull1D
Entries 84
Mean −0.04362
Std Dev 0.6311

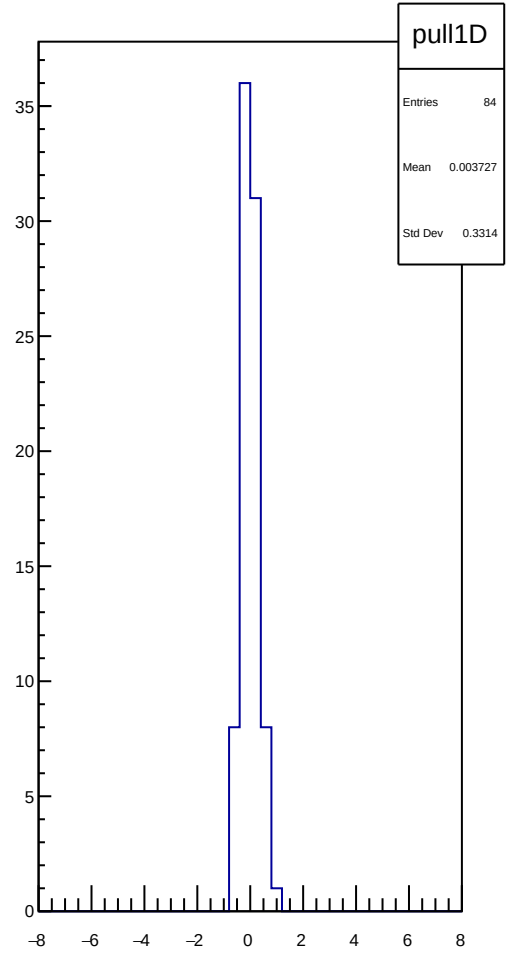

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.298 / 83
p0 −4.856 ± 0.4351
pull
Entries 84
Mean 466.4
Std Dev 417.8
pull1D
Entries 84
Mean −0.00783
Std Dev 0.3142

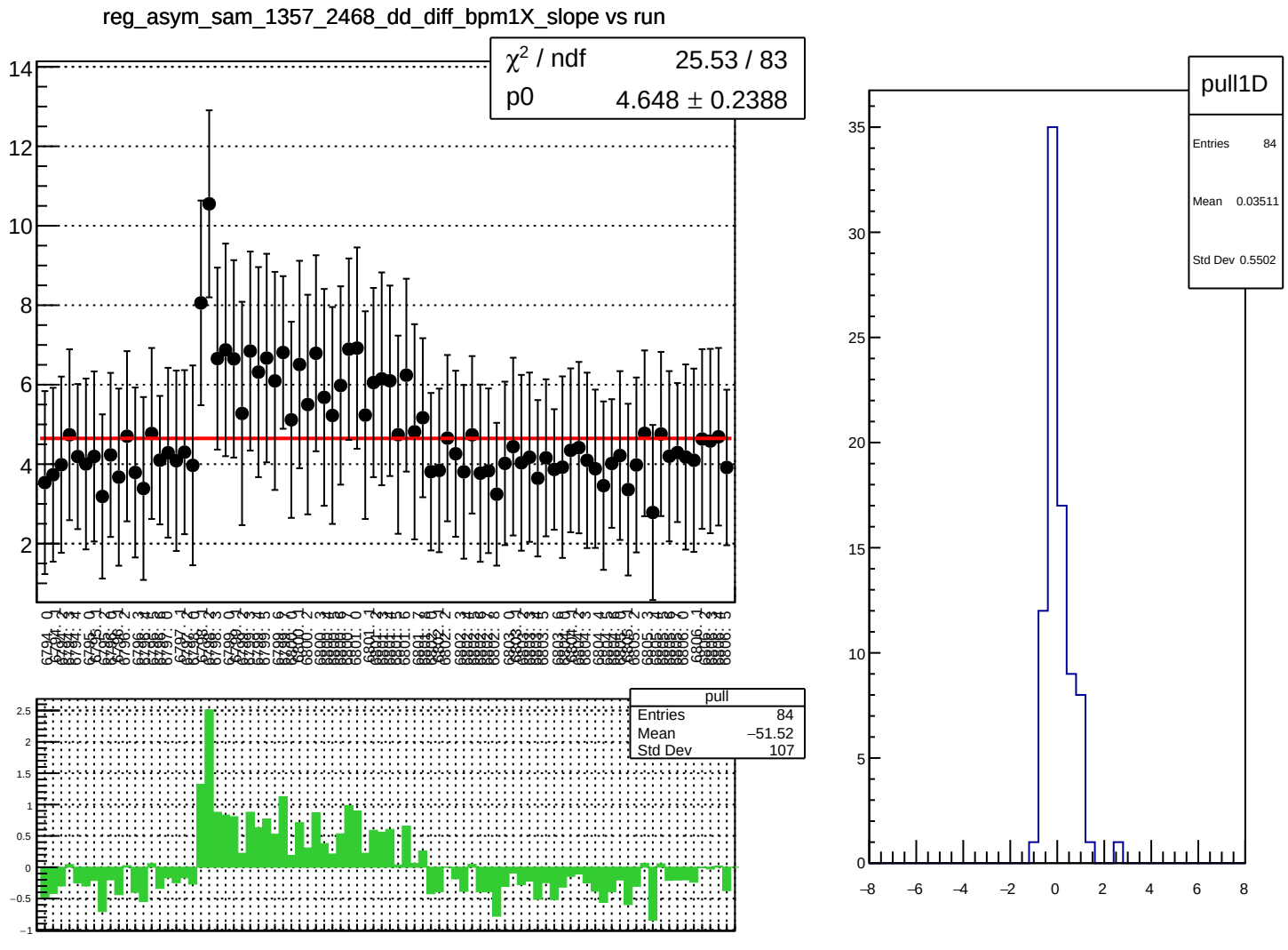

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.53 / 83
p0 −74.75 ± 0.837
pull
Entries 84
Mean −46.9
Std Dev 103.7
pull1D
Entries 84
Mean 0.03572
Std Dev 0.6763

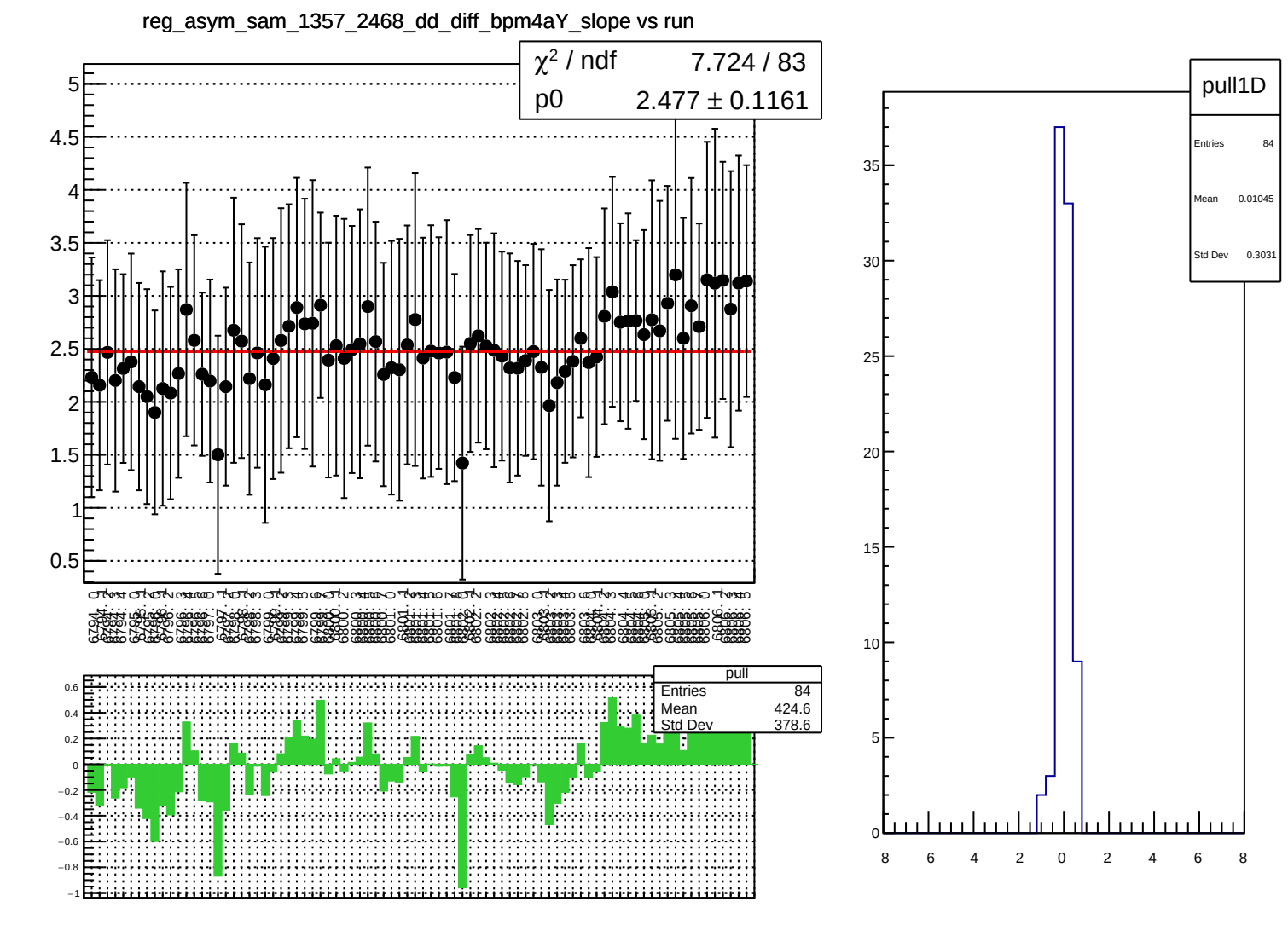

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.88 / 83
p0 43.96 ± 0.608
pull
Entries 84
Mean 3213
Std Dev 3164

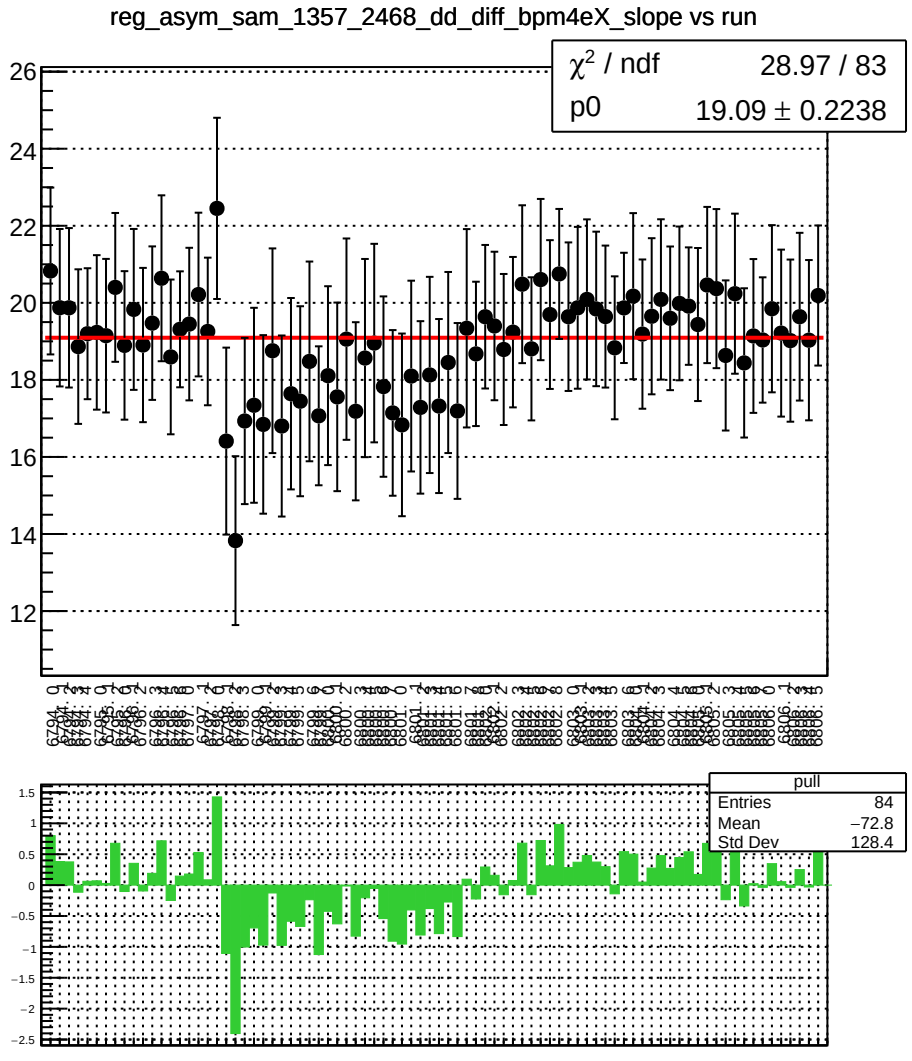

pull1D
Entries 84
Mean 0.001666
Std Dev 0.376

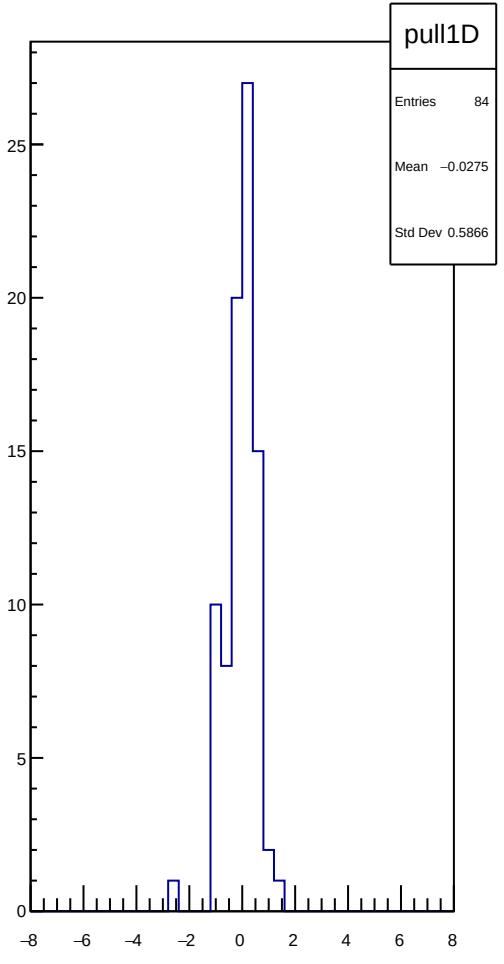

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 9.224 / 83
p0 0.3148 ± 0.03597
pull
Entries 84
Mean −580.7
Std Dev 648.5

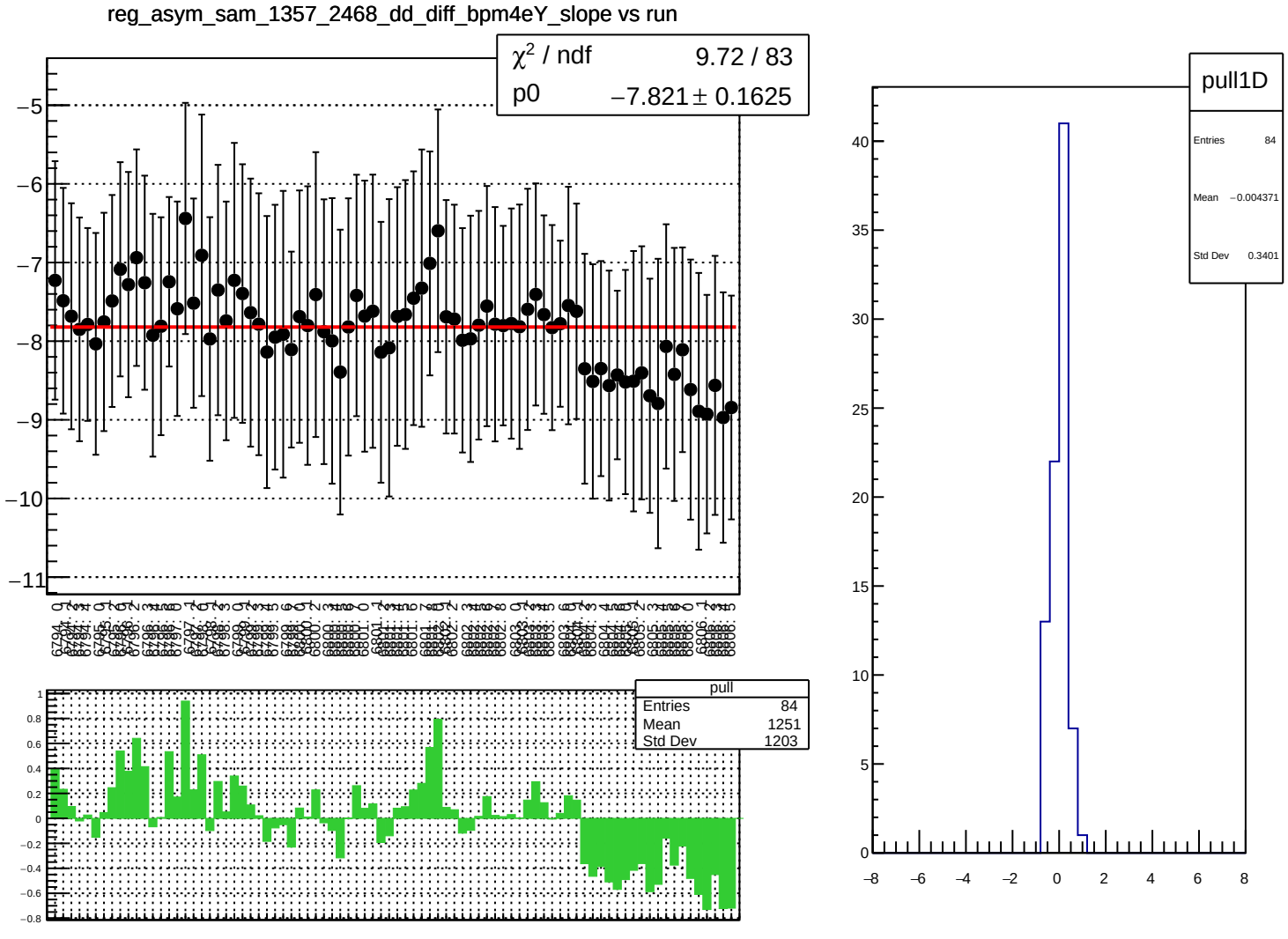

pull1D
Entries 84
Mean 0.003727
Std Dev 0.3314

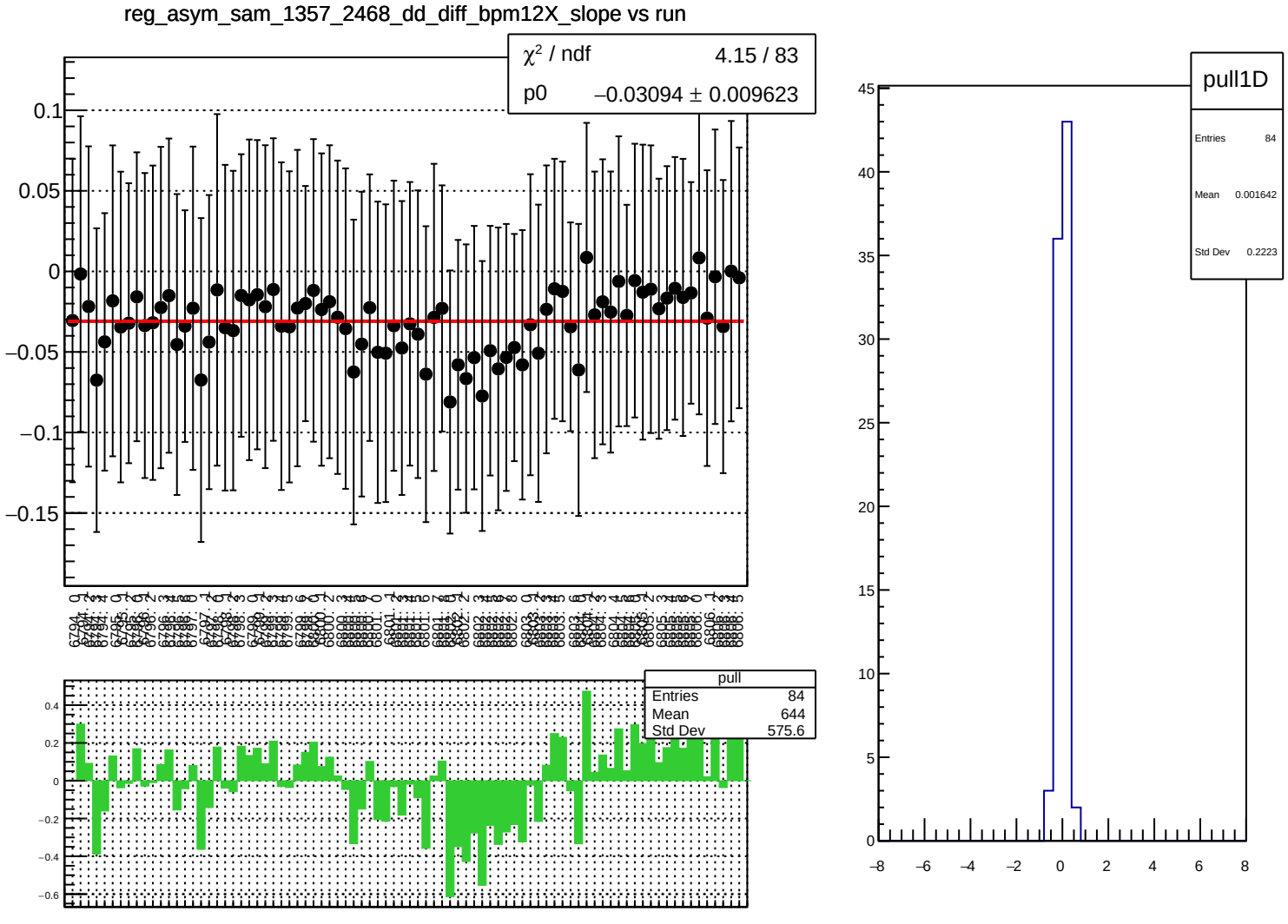

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 25.53 / 83
p0 4.648 ± 0.2388
pull
Entries 84
Mean −51.52
Std Dev 107
pull1D
Entries 84
Mean 0.03511
Std Dev 0.5502

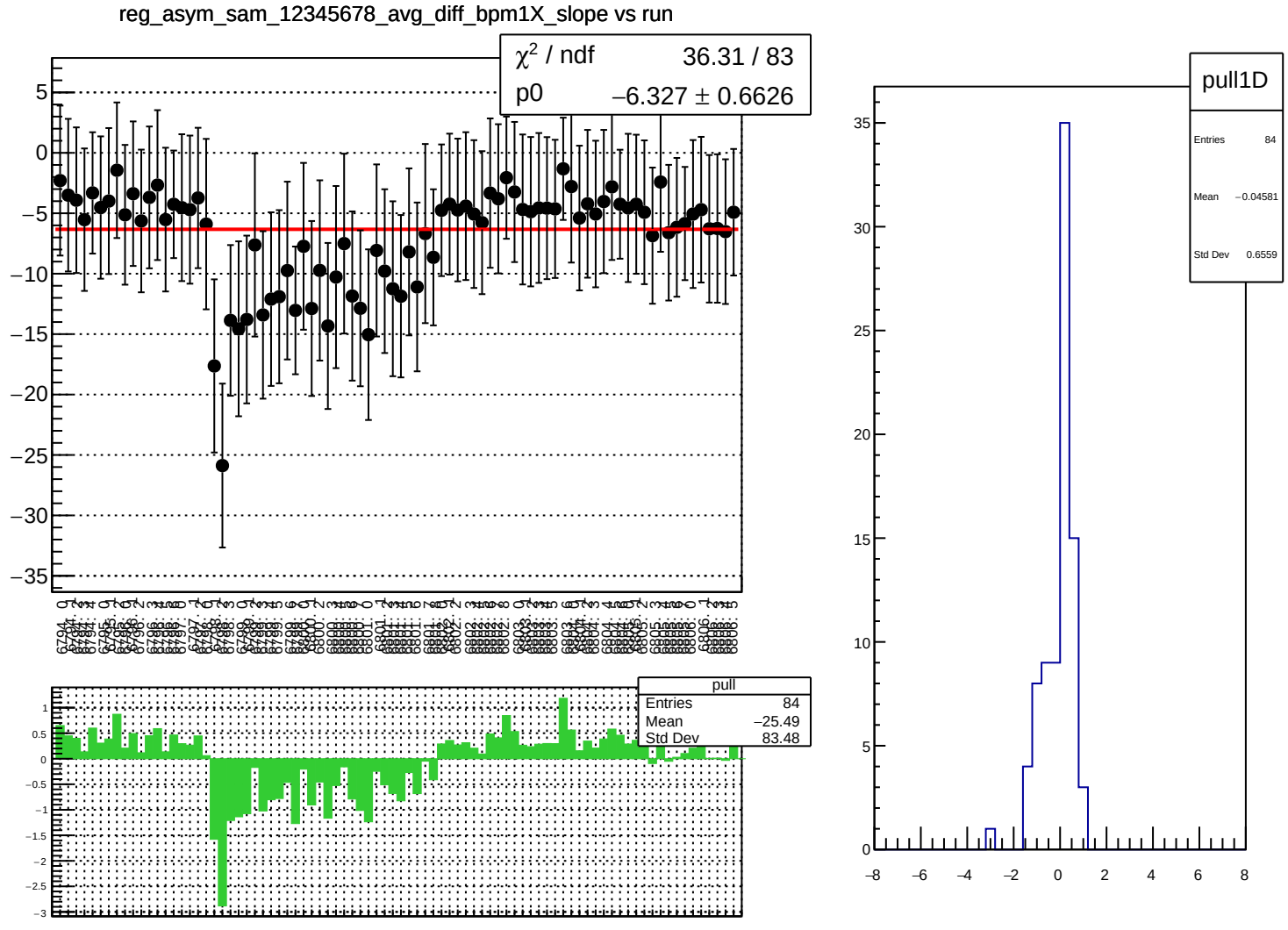

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.724 / 83
p0 2.477 ± 0.1161
pull
Entries 84
Mean 424.6
Std Dev 378.6
pull1D
Entries 84
Mean 0.01045
Std Dev 0.3031

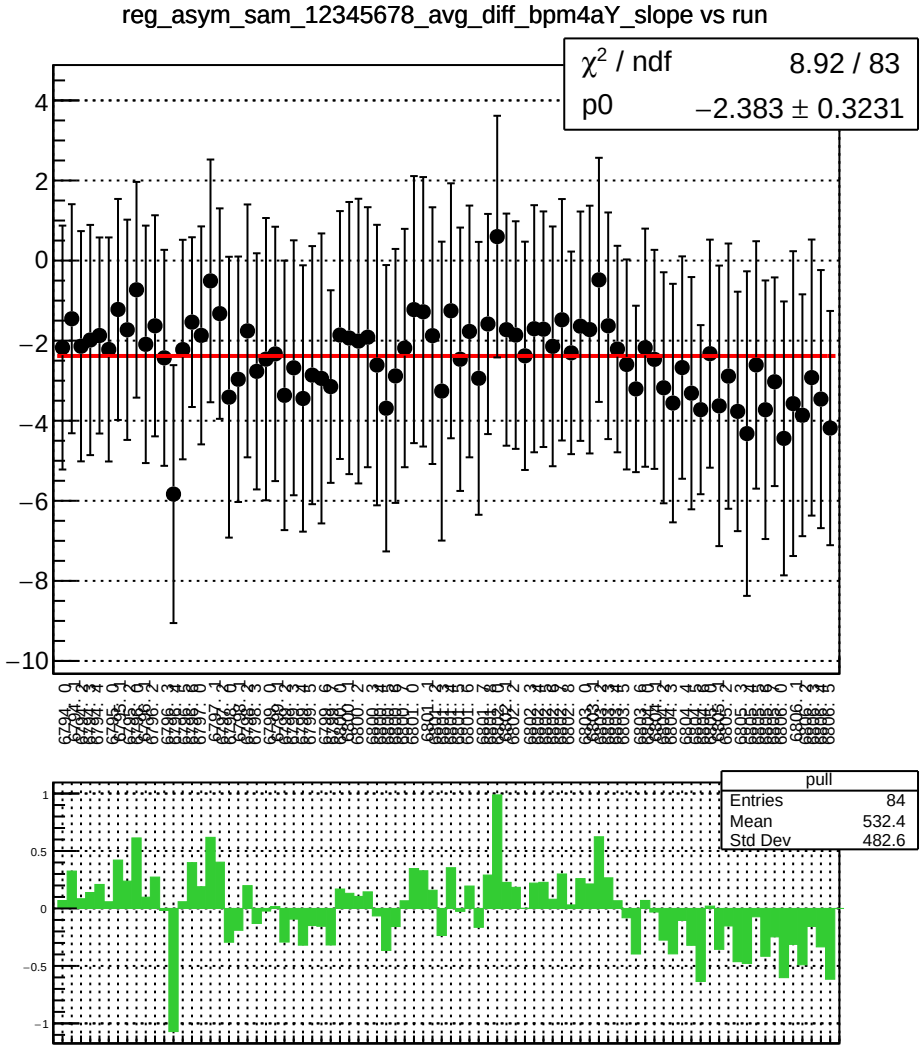

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.97 / 83
p0 19.09 ± 0.2238
pull
Entries 84
Mean −72.8
Std Dev 128.4

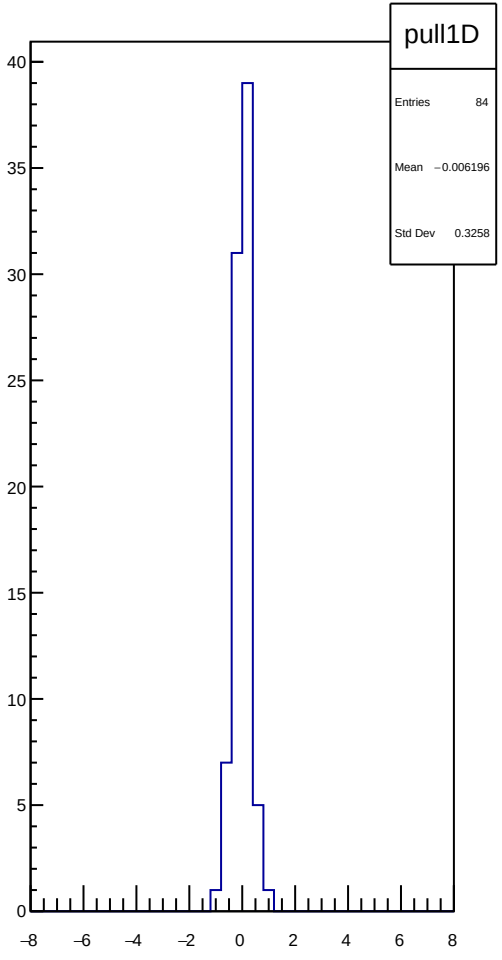

pull1D
Entries 84
Mean −0.0275
Std Dev 0.5866

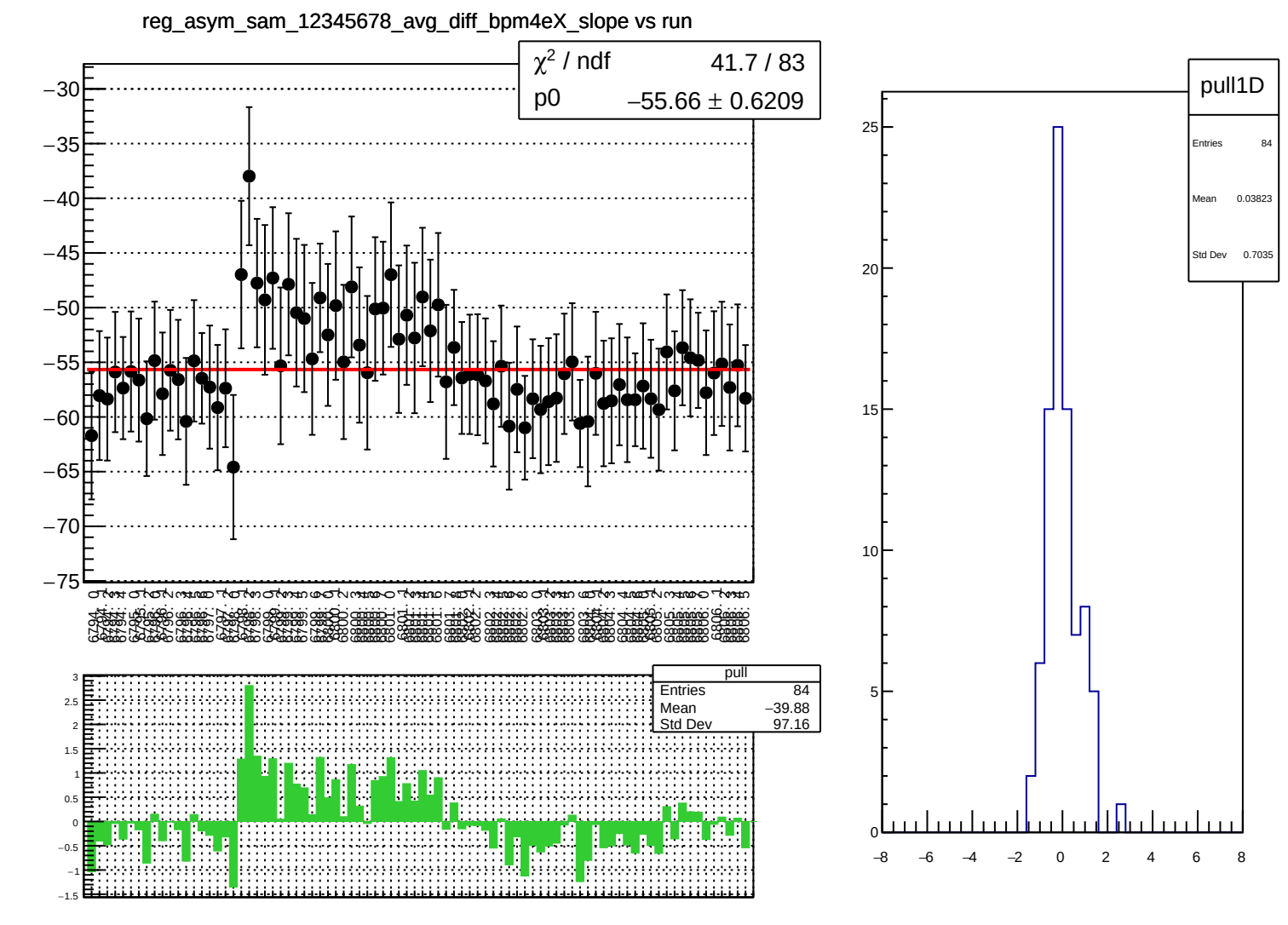

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.72 / 83
p0 −7.821 ± 0.1625
pull
Entries 84
Mean 1251
Std Dev 1203
pull1D
Entries 84
Mean −0.004371
Std Dev 0.3401

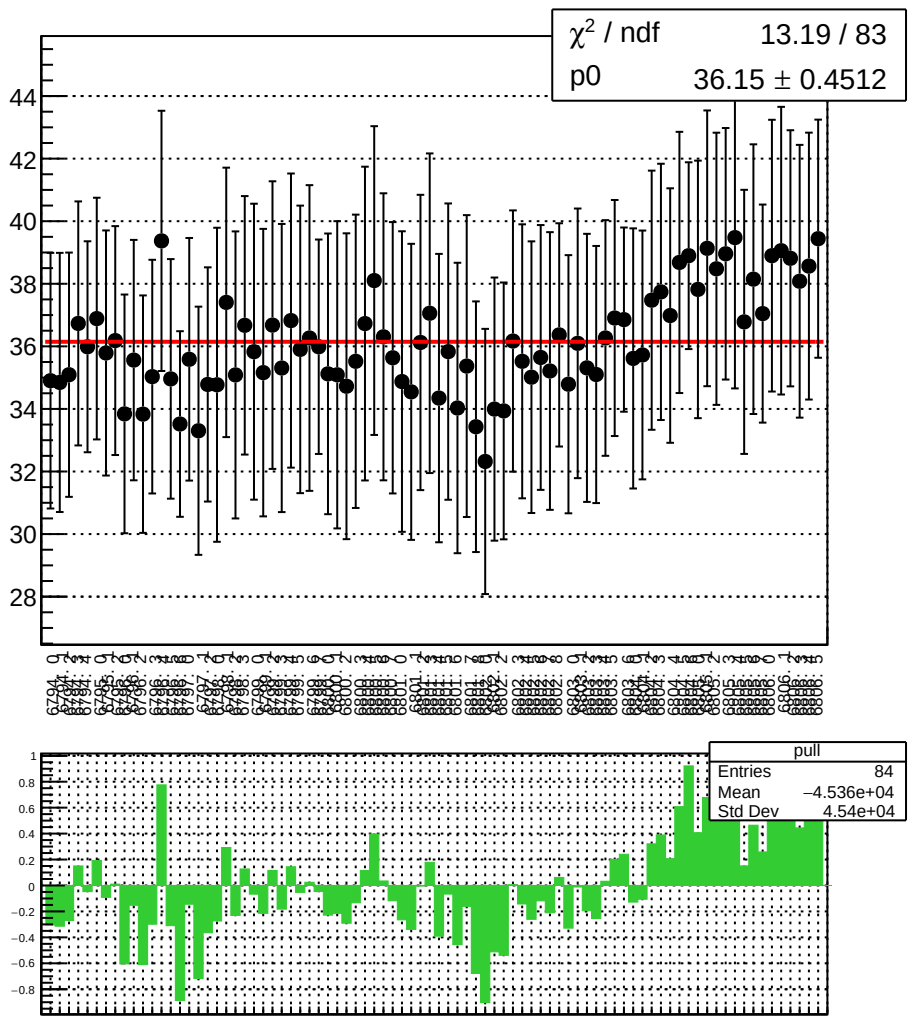

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 4.15 / 83
p0 −0.03094 ± 0.009623
pull
Entries 84
Mean 644
Std Dev 575.6
pull1D
Entries 84
Mean 0.001642
Std Dev 0.2223

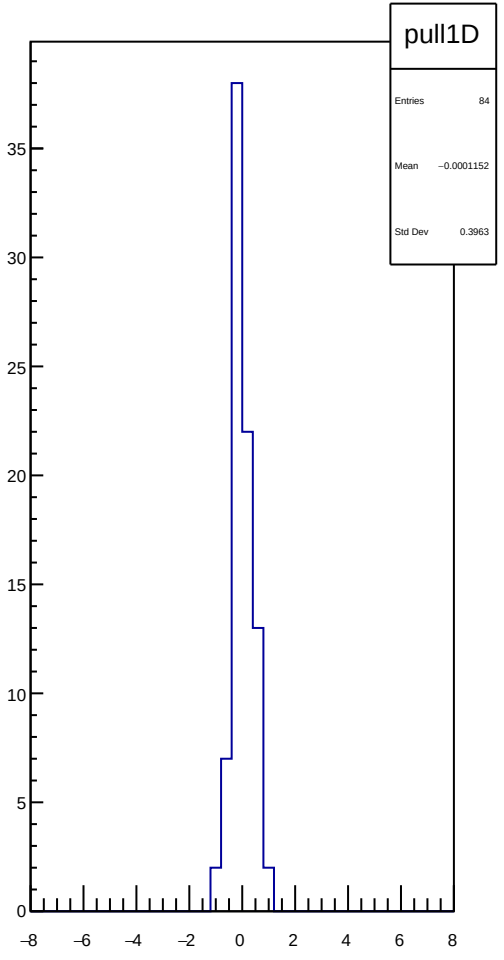

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 36.31 / 83
p0 −6.327 ± 0.6626
pull
Entries 84
Mean −25.49
Std Dev 83.48
pull1D
Entries 84
Mean −0.04581
Std Dev 0.6559

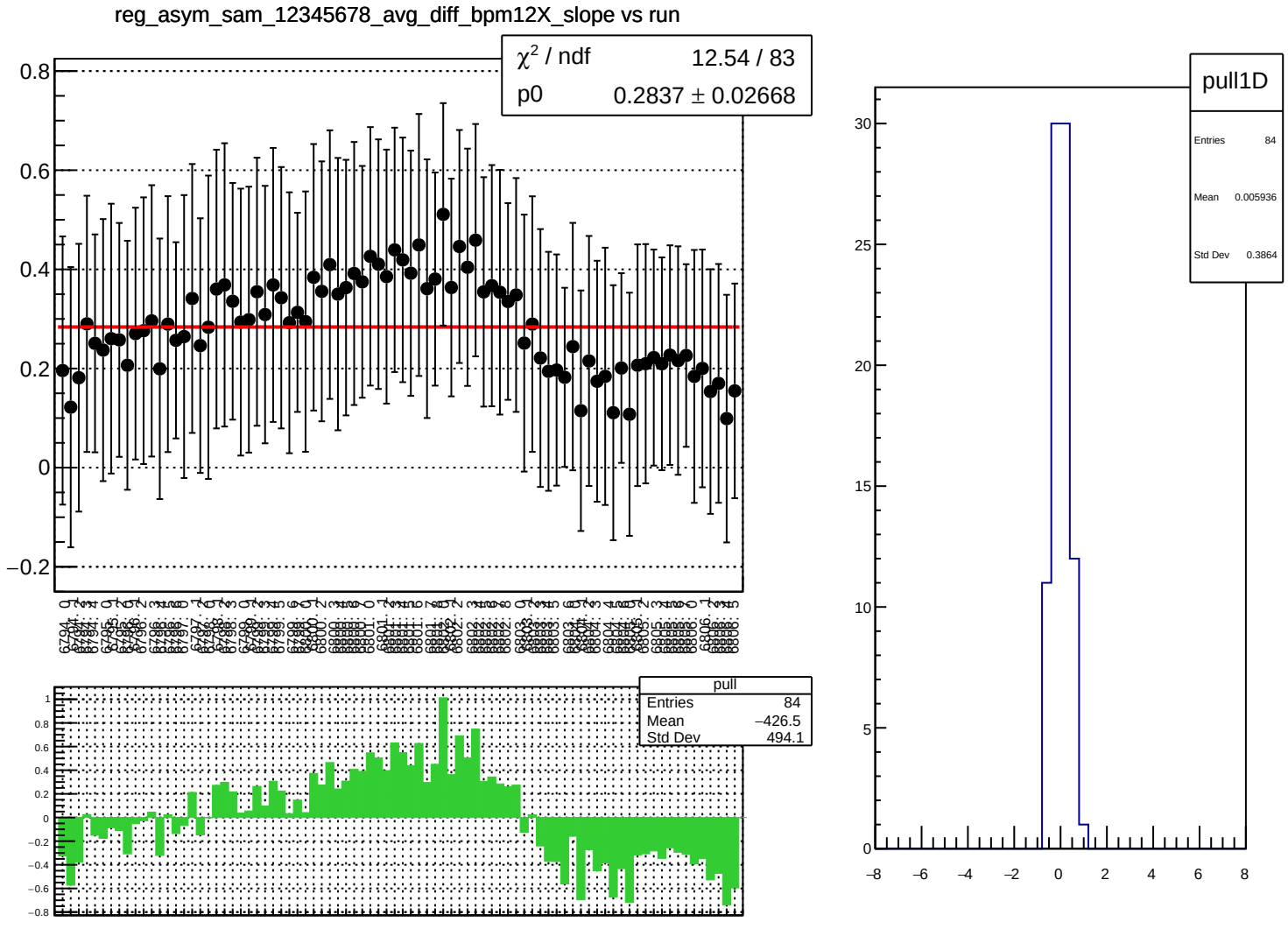

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.92 / 83
p0 −2.383 ± 0.3231
pull
Entries 84
Mean 532.4
Std Dev 482.6

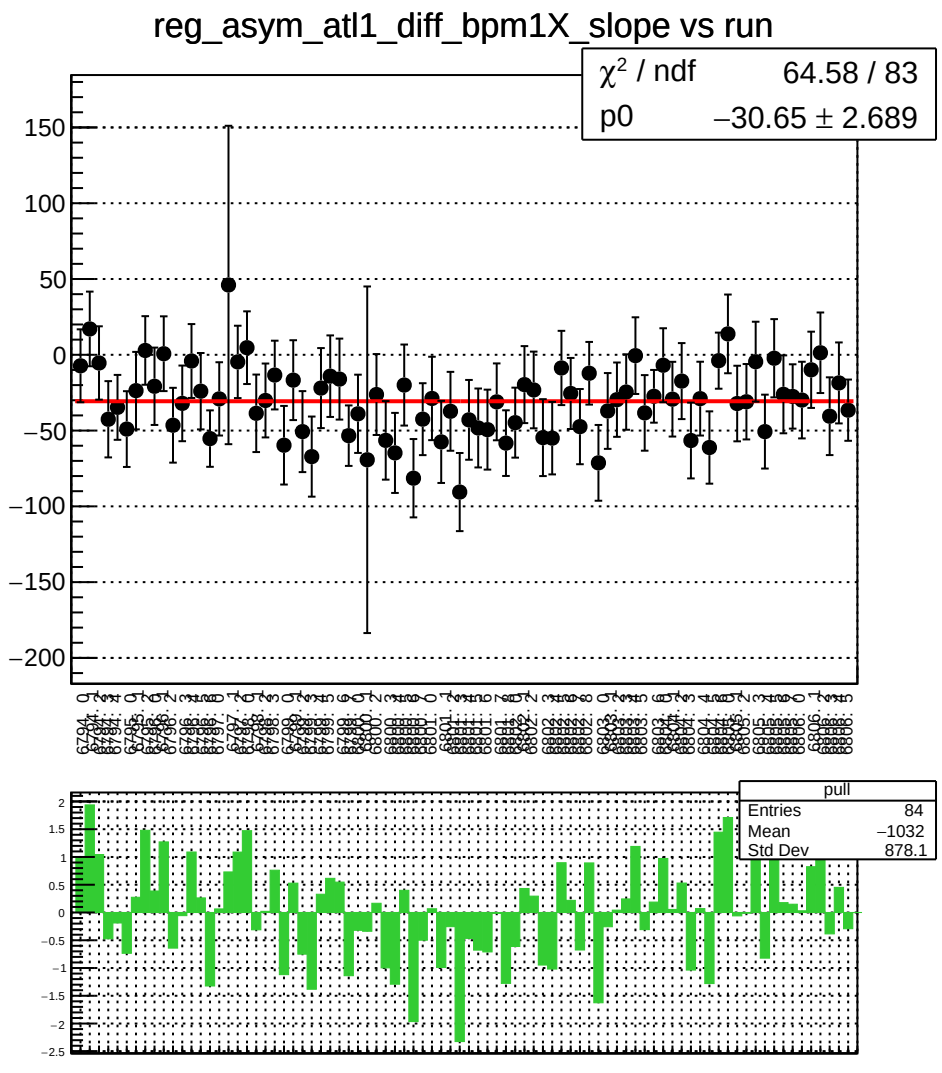

pull1D
Entries 84
Mean −0.006196
Std Dev 0.3258

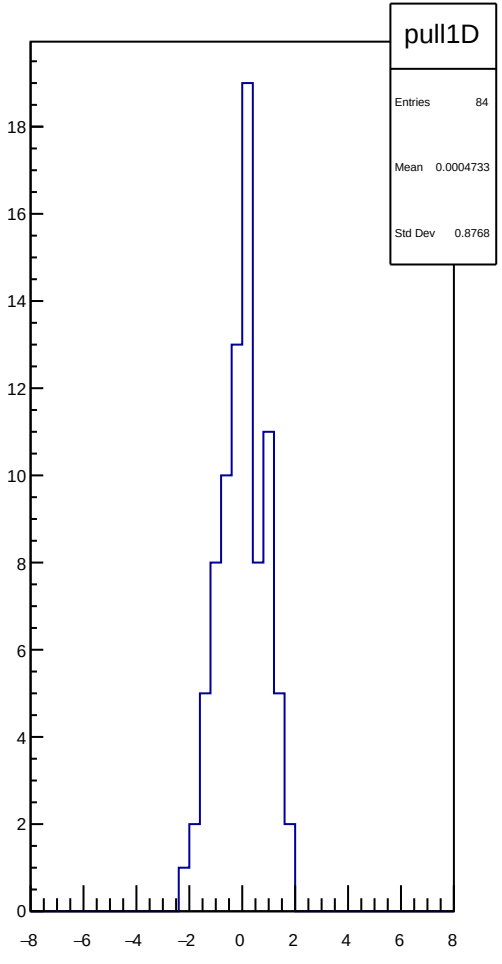

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.7 / 83
p0 −55.66 ± 0.6209
pull
Entries 84
Mean −39.88
Std Dev 97.16
pull1D
Entries 84
Mean 0.03823
Std Dev 0.7035

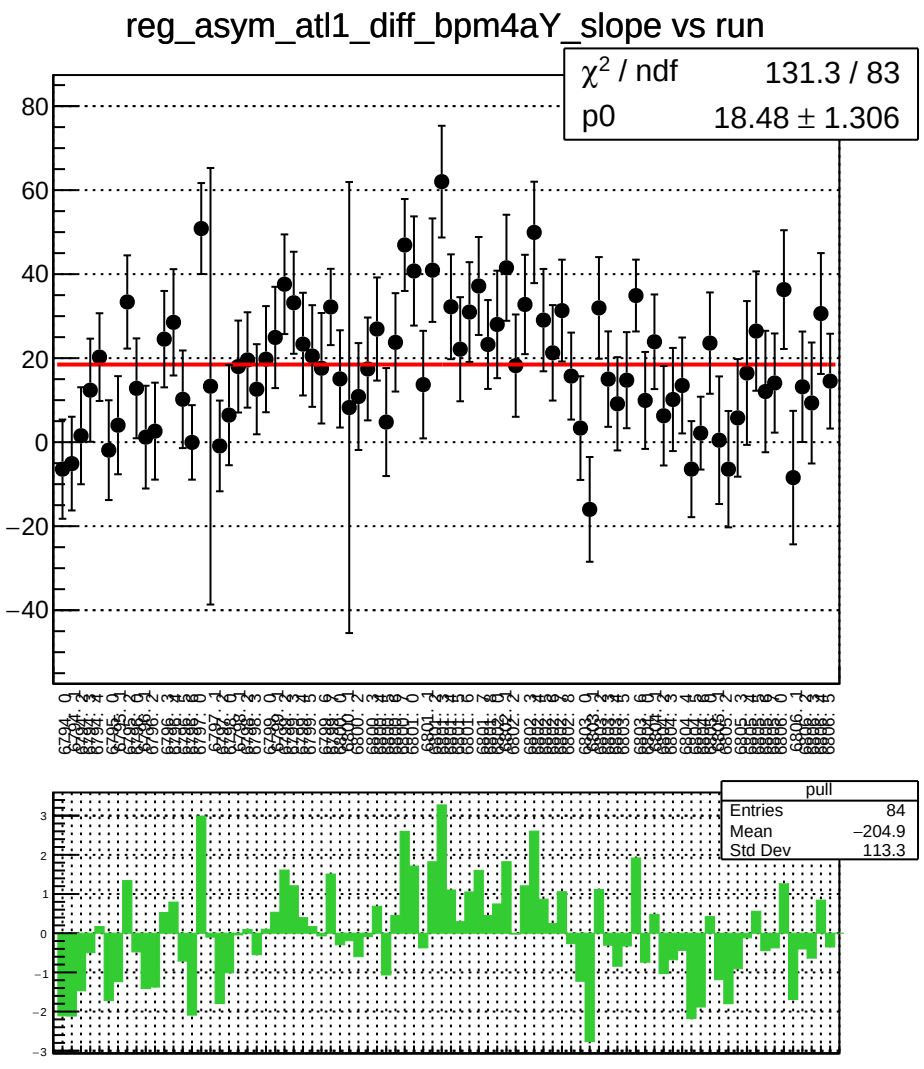

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.19 / 83
p0 36.15 ± 0.4512
pull
Entries 84
Mean −4.536e+04
Std Dev 4.54e+04

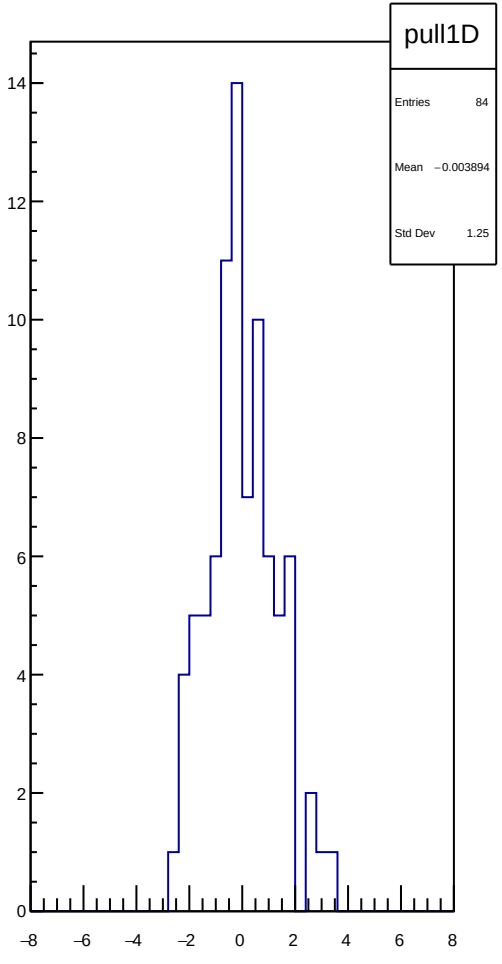

pull1D
Entries 84
Mean −0.0001152
Std Dev 0.3963

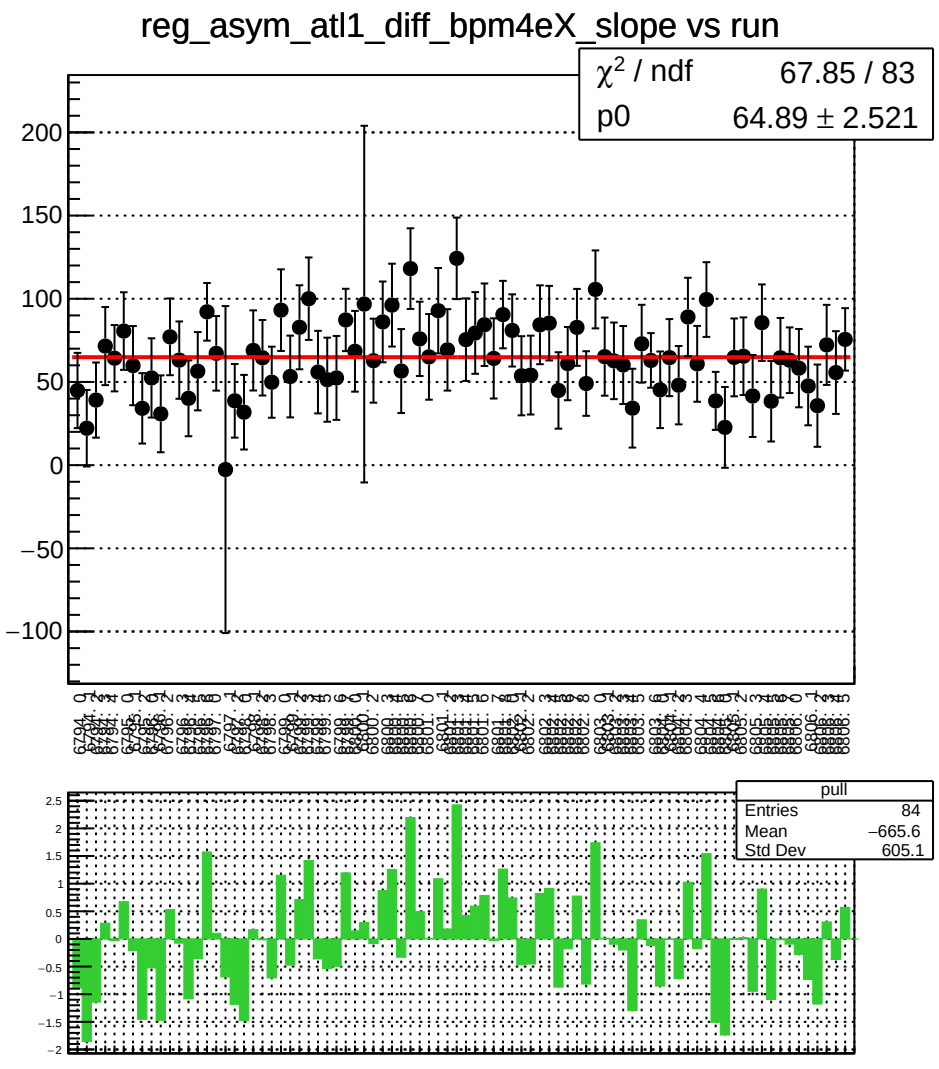

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 12.54 / 83
p0 0.2837 ± 0.02668
pull
Entries 84
Mean −426.5
Std Dev 494.1
pull1D
Entries 84
Mean 0.005936
Std Dev 0.3864

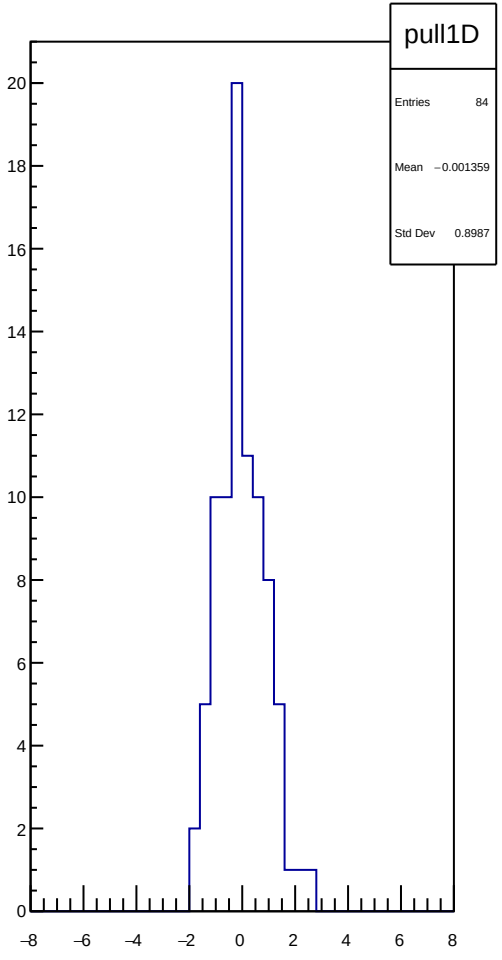

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 64.58 / 83
p0 −30.65 ± 2.689
pull
Entries 84
Mean −1032
Std Dev 878.1

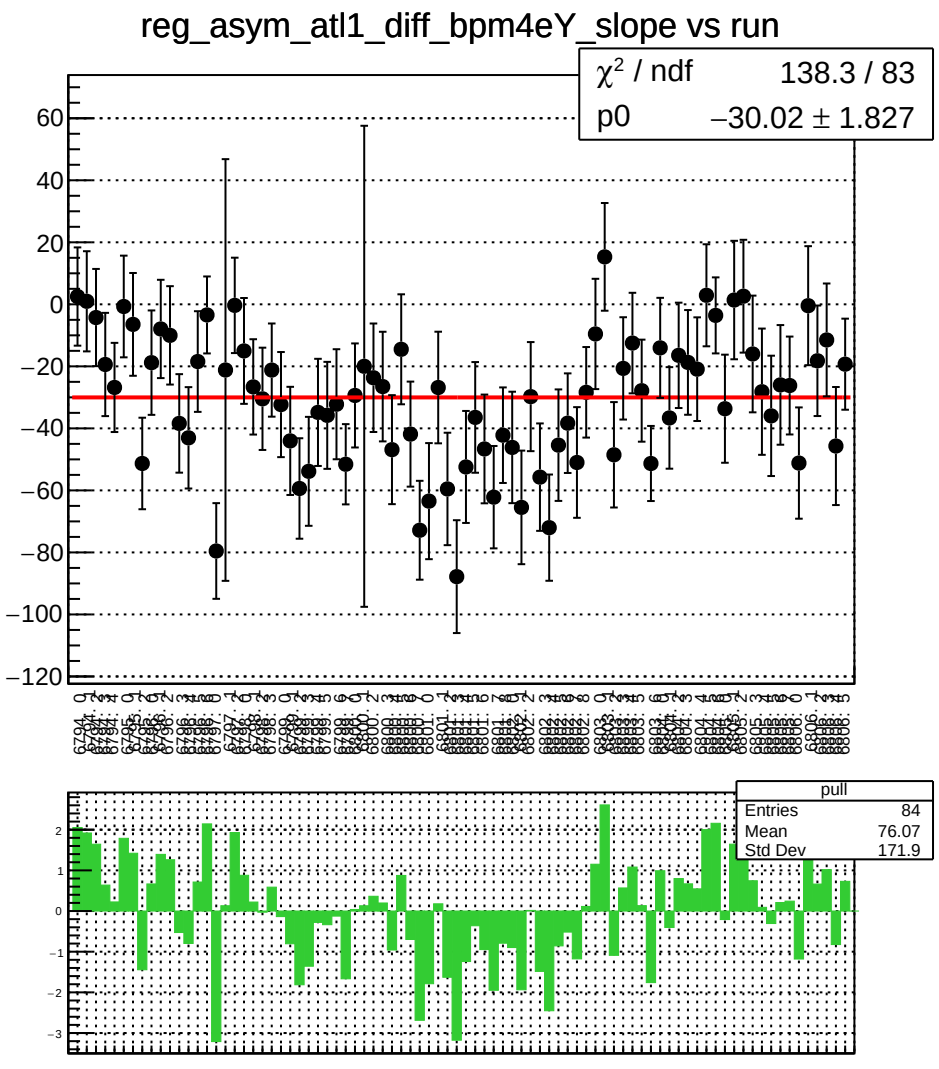

pull1D
Entries 84
Mean 0.0004733
Std Dev 0.8768

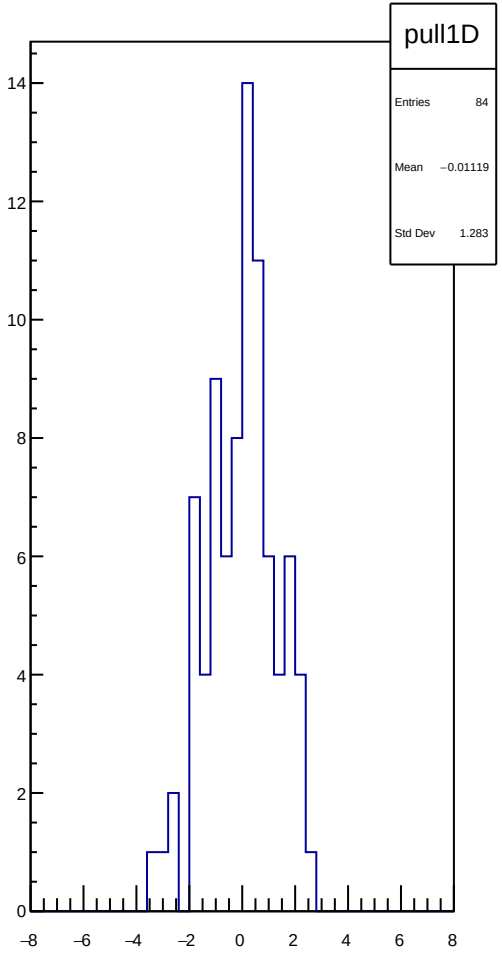

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 131.3 / 83
p0 18.48 ± 1.306
pull
Entries 84
Mean −204.9
Std Dev 113.3

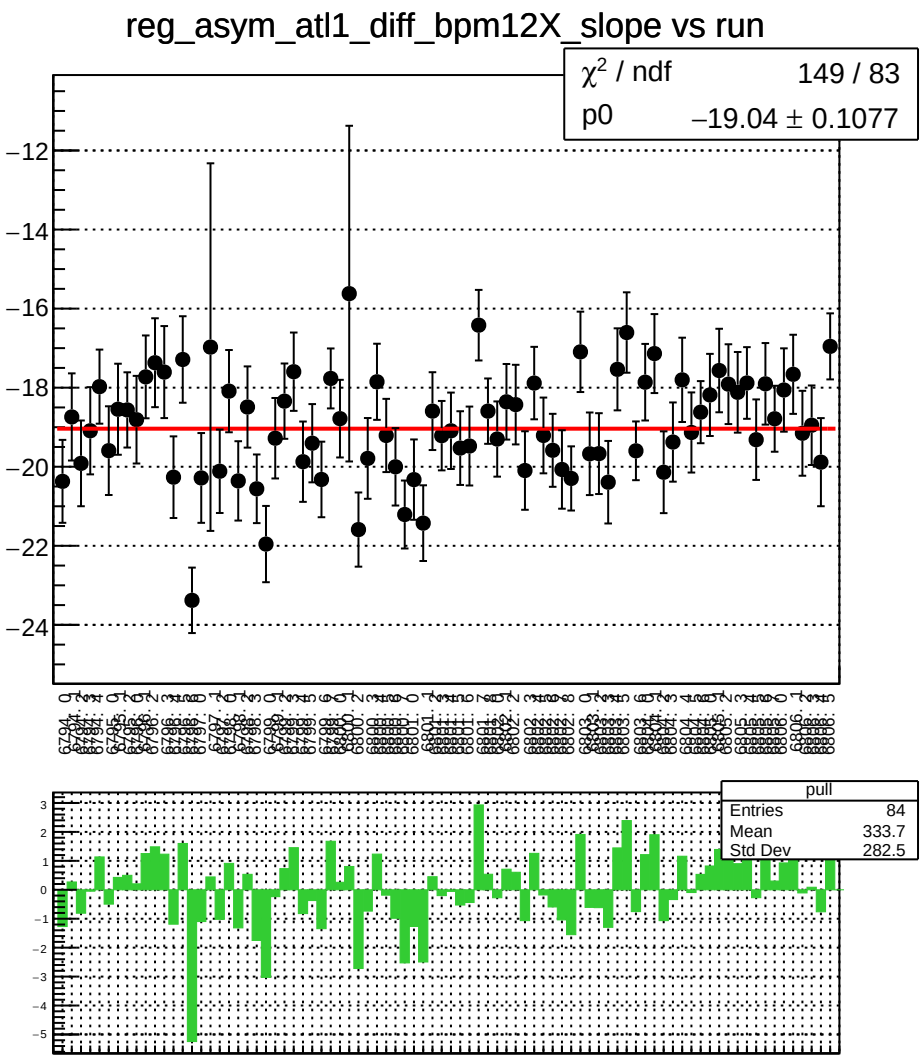

pull1D
Entries 84
Mean −0.003894
Std Dev 1.25

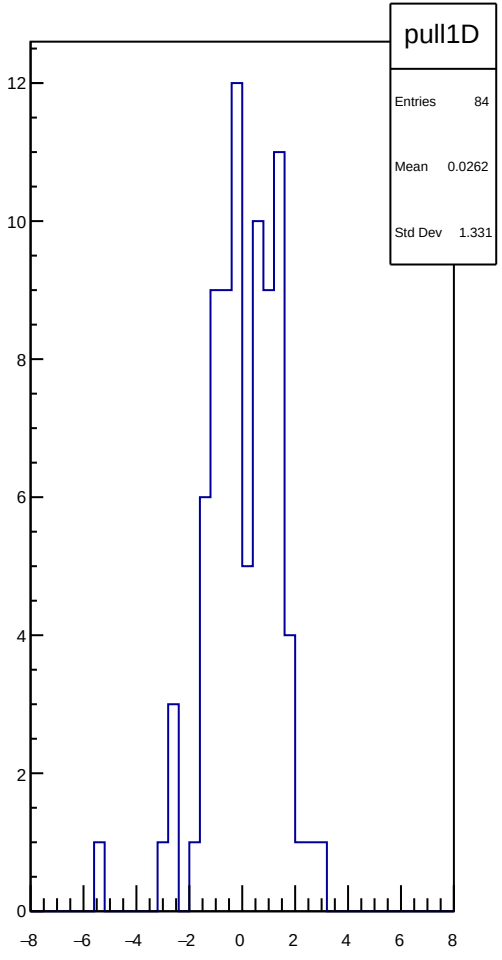

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 67.85 / 83
p0 64.89 ± 2.521
pull
Entries 84
Mean −665.6
Std Dev 605.1

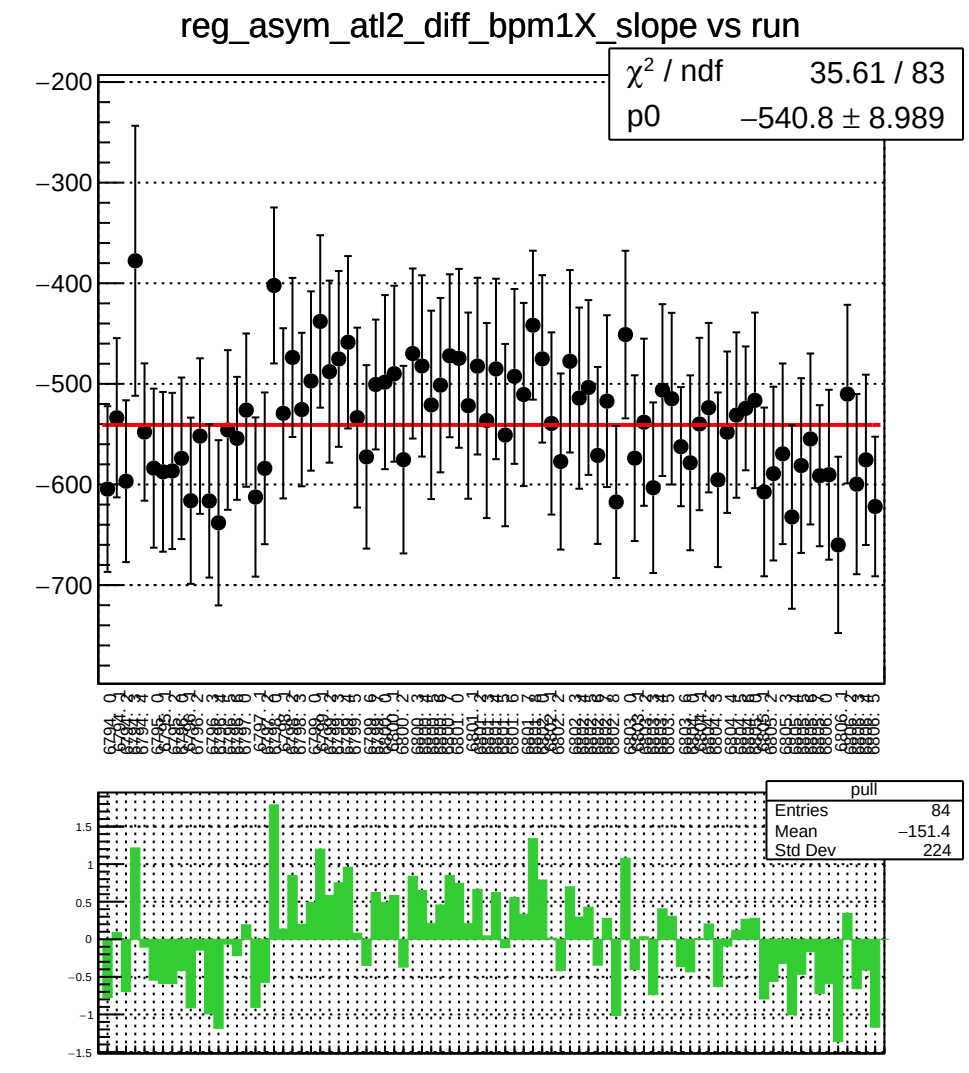

pull1D
Entries 84
Mean −0.001359
Std Dev 0.8987

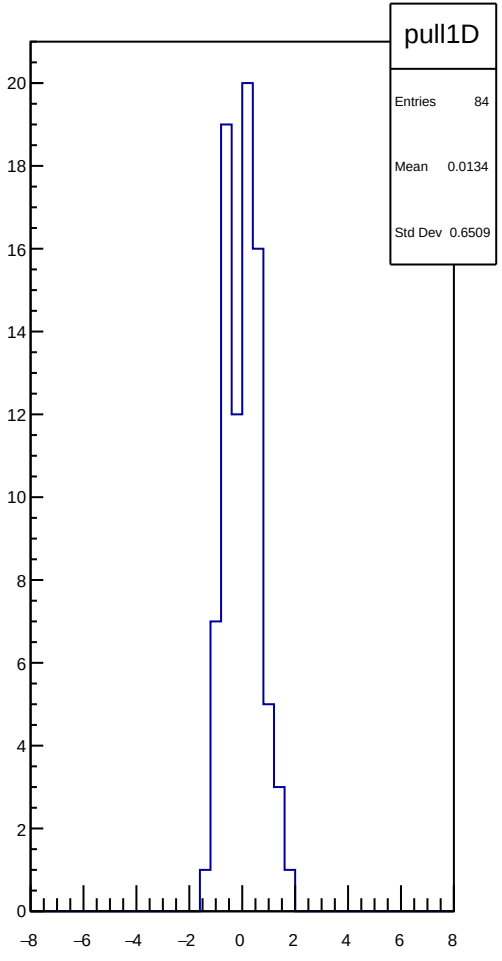

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 138.3 / 83
p0 −30.02 ± 1.827
pull
Entries 84
Mean 76.07
Std Dev 171.9

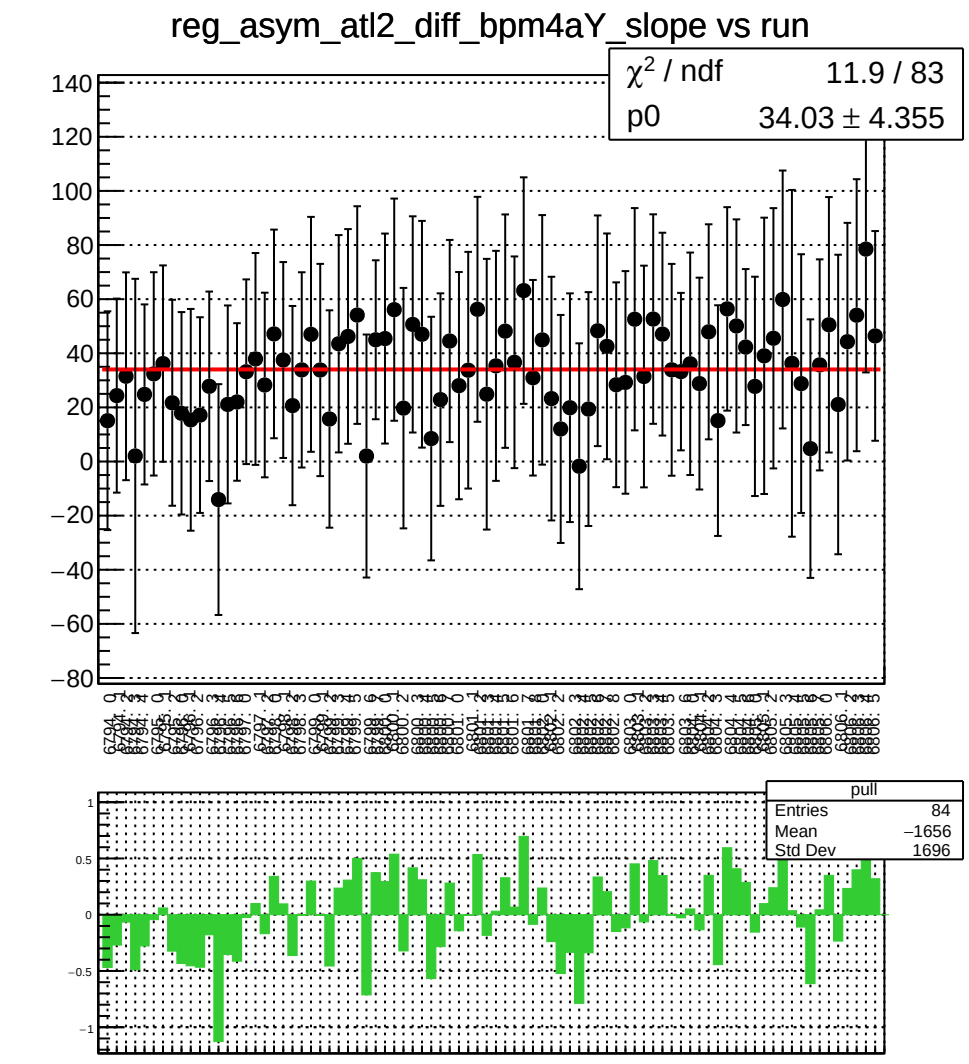

pull1D
Entries 84
Mean −0.01119
Std Dev 1.283

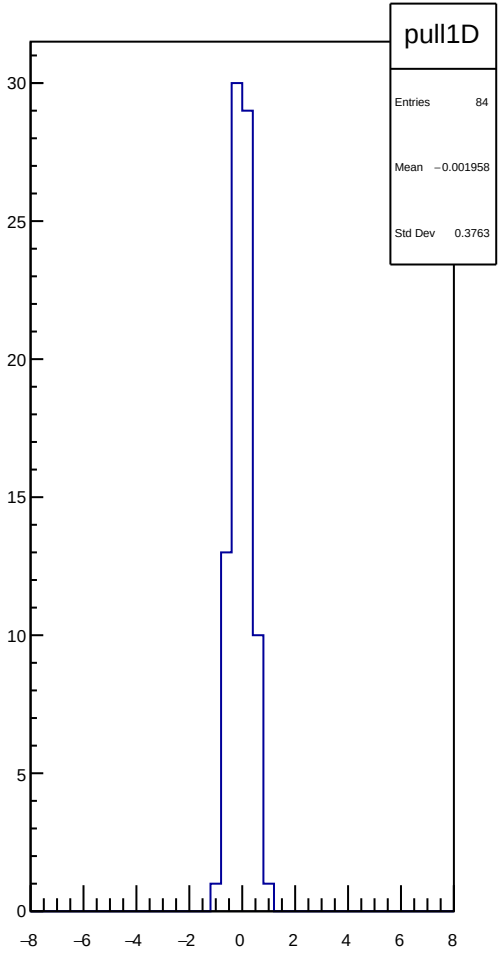

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 149 / 83
p0 −19.04 ± 0.1077
pull
Entries 84
Mean 333.7
Std Dev 282.5

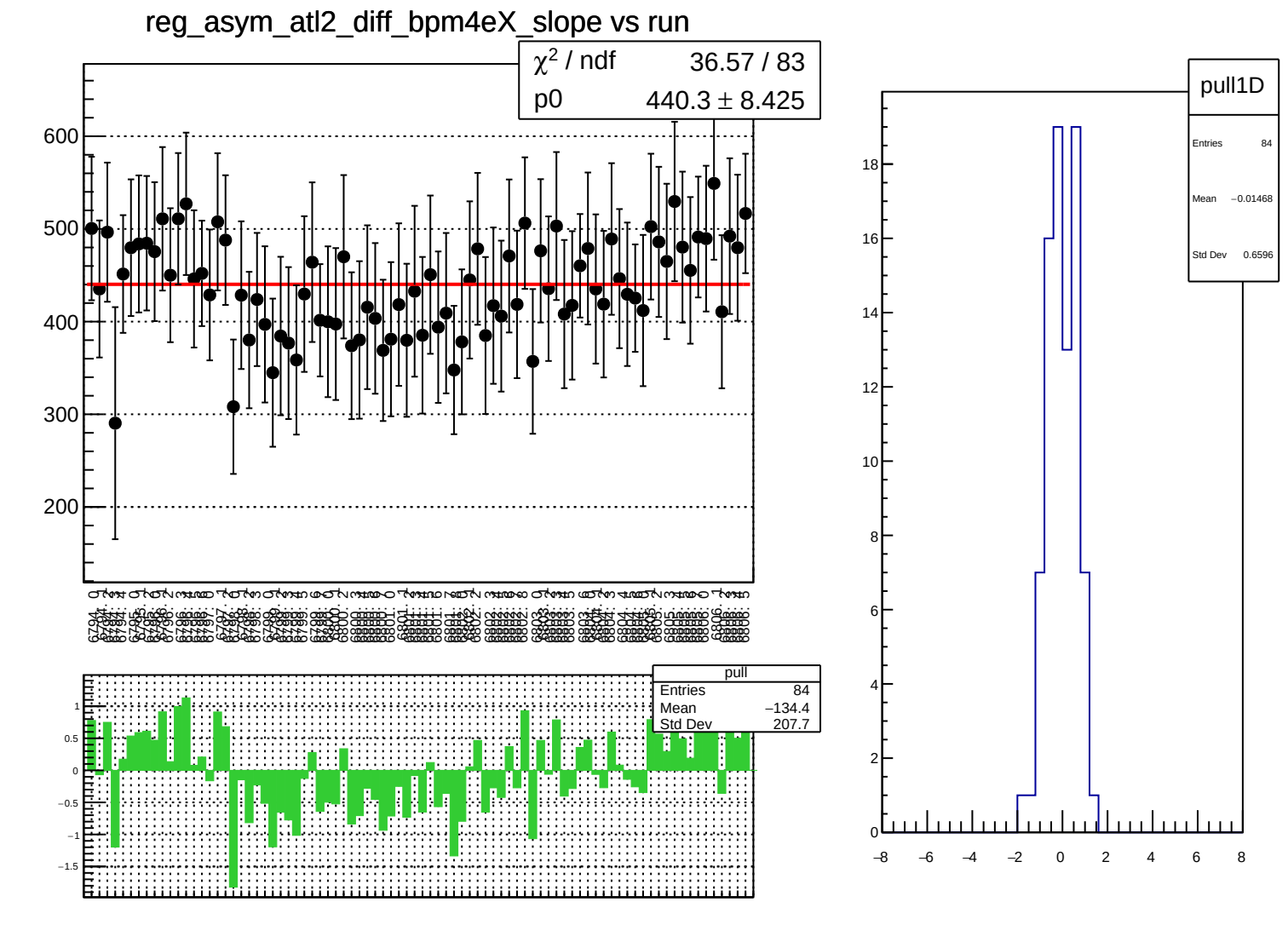

pull1D
Entries 84
Mean 0.0262
Std Dev 1.331

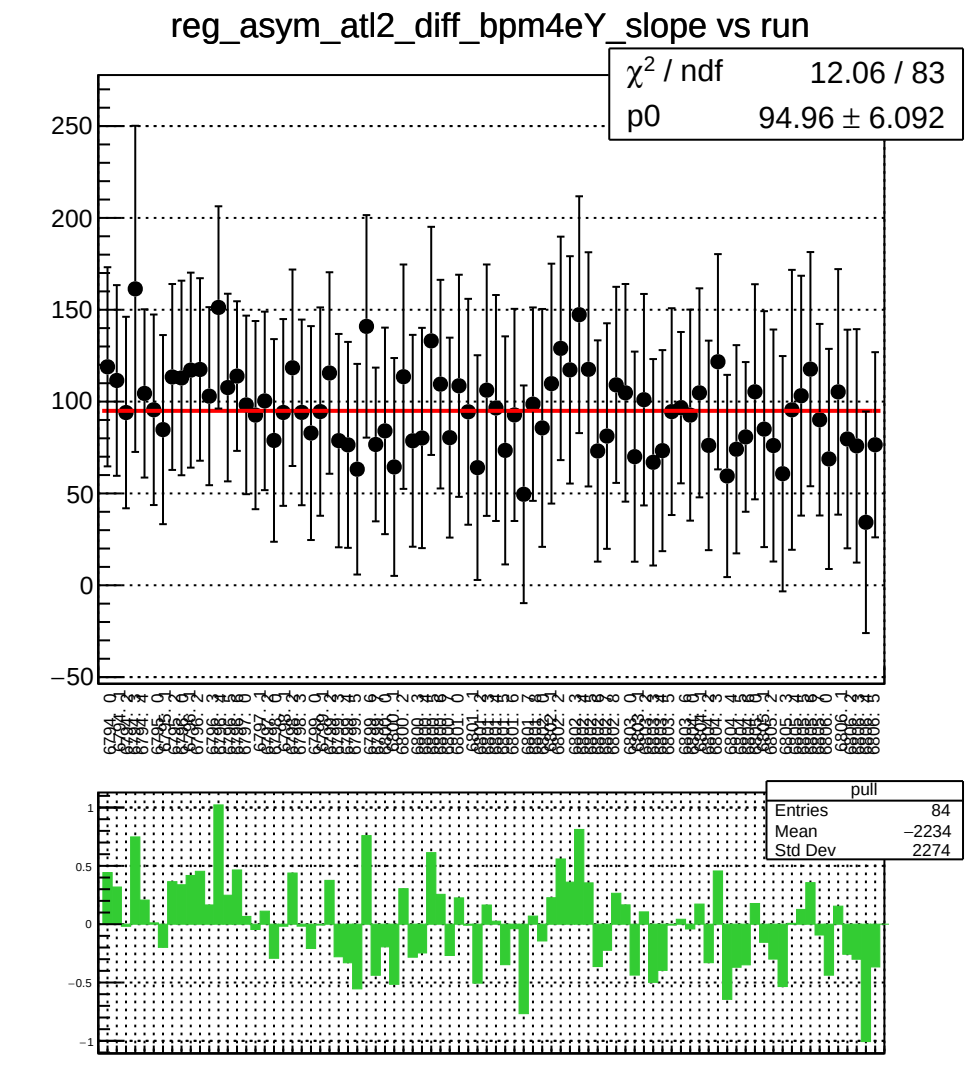

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 35.61 / 83
p0 −540.8 ± 8.989
pull
Entries 84
Mean −151.4
Std Dev 224

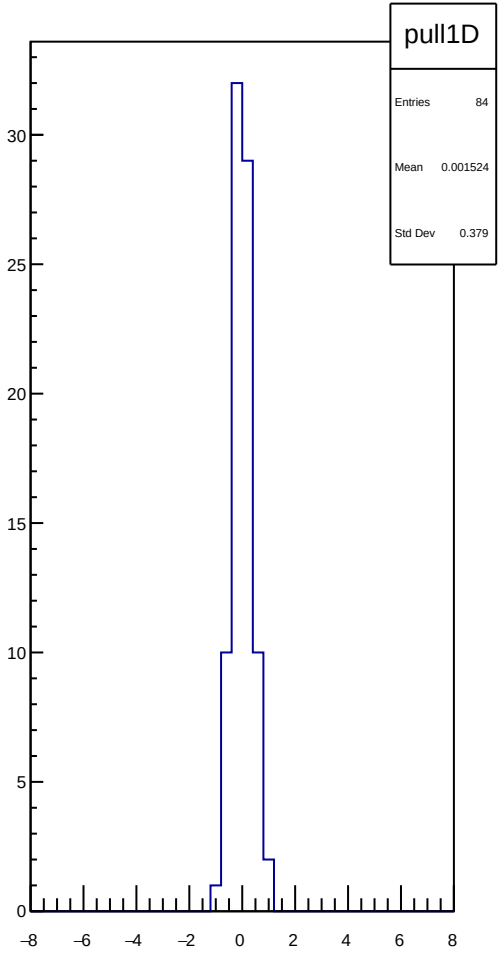

pull1D
Entries 84
Mean 0.0134
Std Dev 0.6509

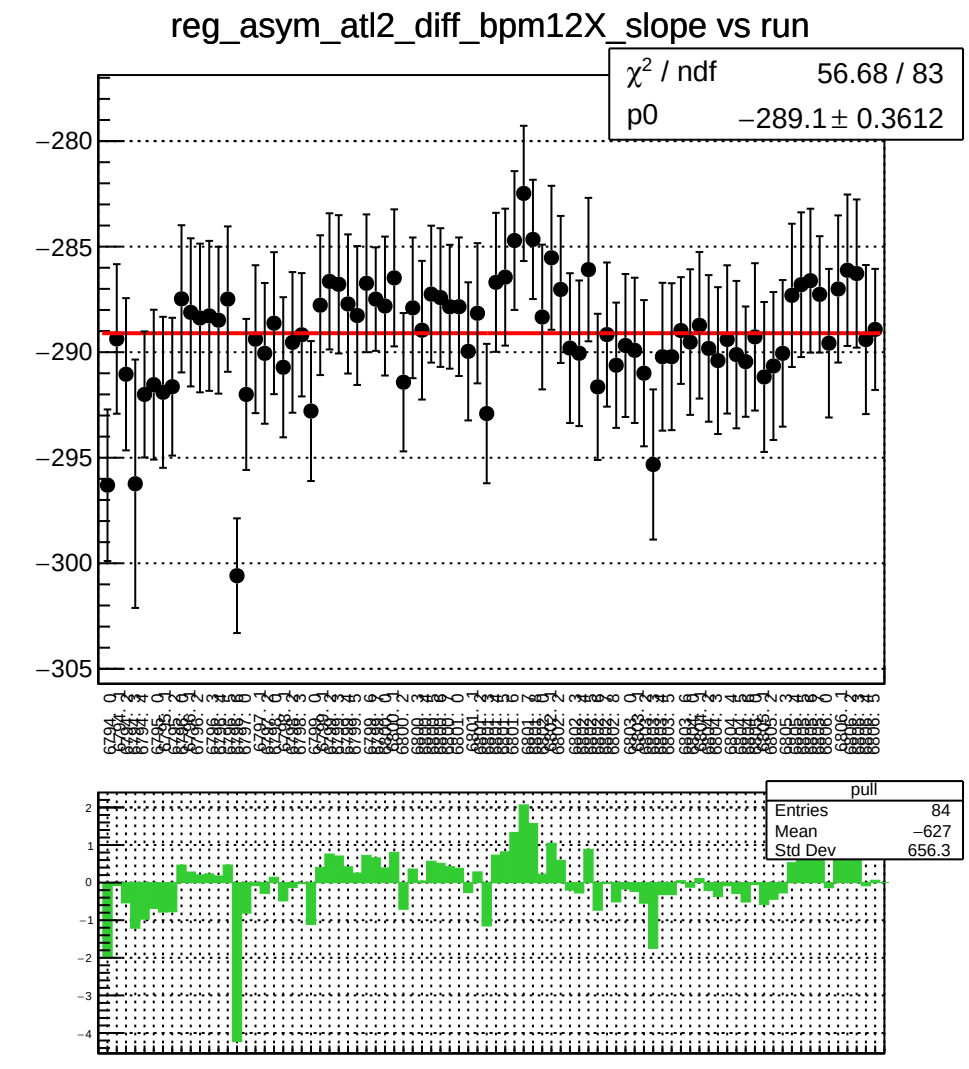

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 11.9 / 83
p0 34.03 ± 4.355
pull
Entries 84
Mean −1656
Std Dev 1696

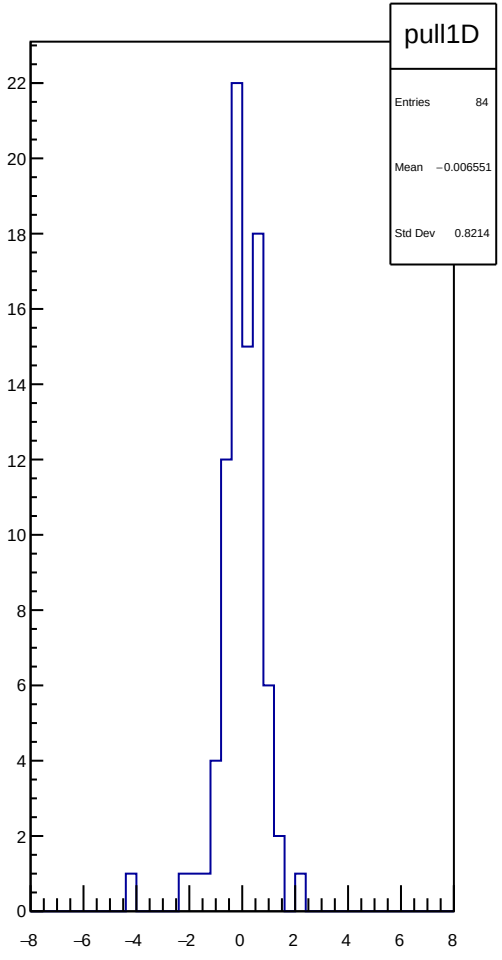

pull1D
Entries 84
Mean −0.001958
Std Dev 0.3763

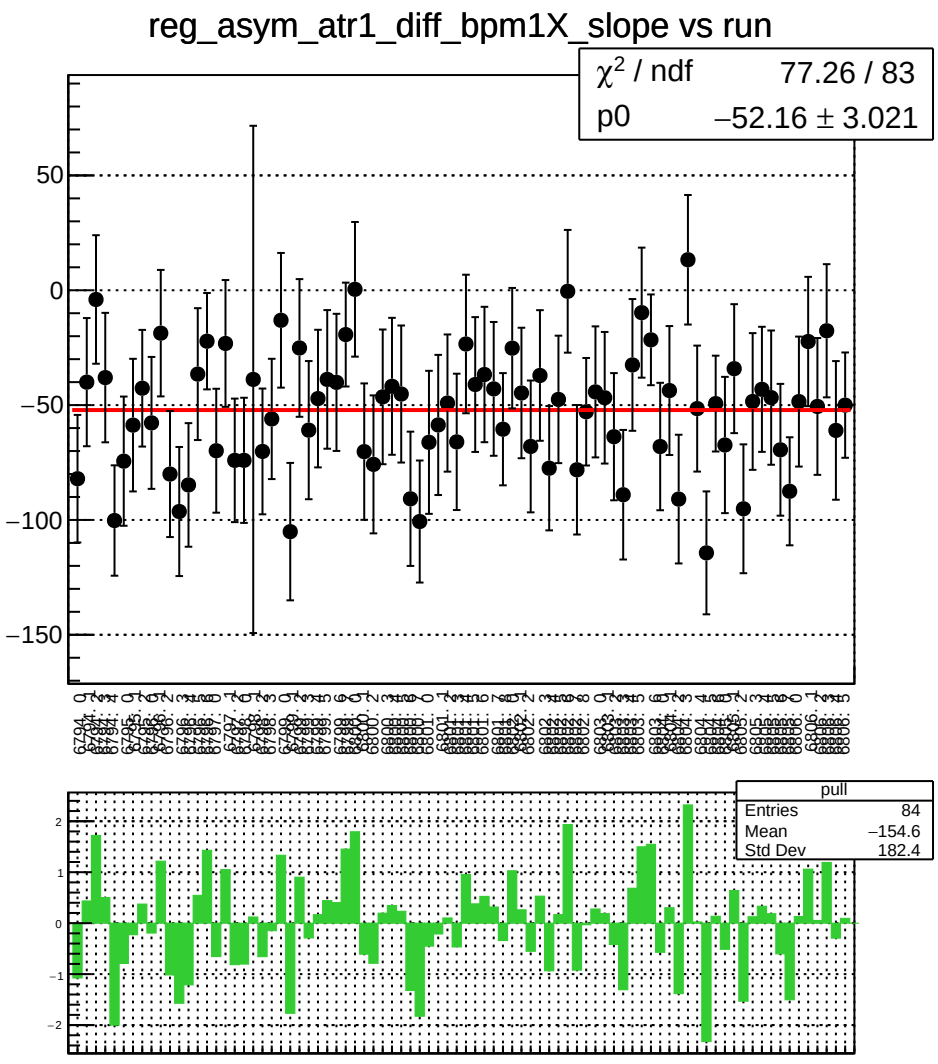

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 36.57 / 83
p0 440.3 ± 8.425
pull
Entries 84
Mean −134.4
Std Dev 207.7
pull1D
Entries 84
Mean −0.01468
Std Dev 0.6596

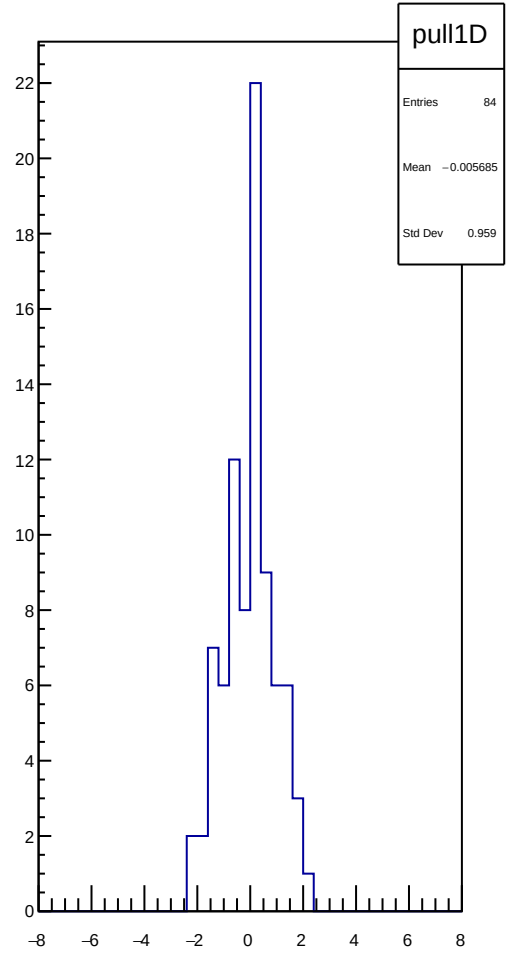

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 12.06 / 83
p0 94.96 ± 6.092
pull
Entries 84
Mean −2234
Std Dev 2274

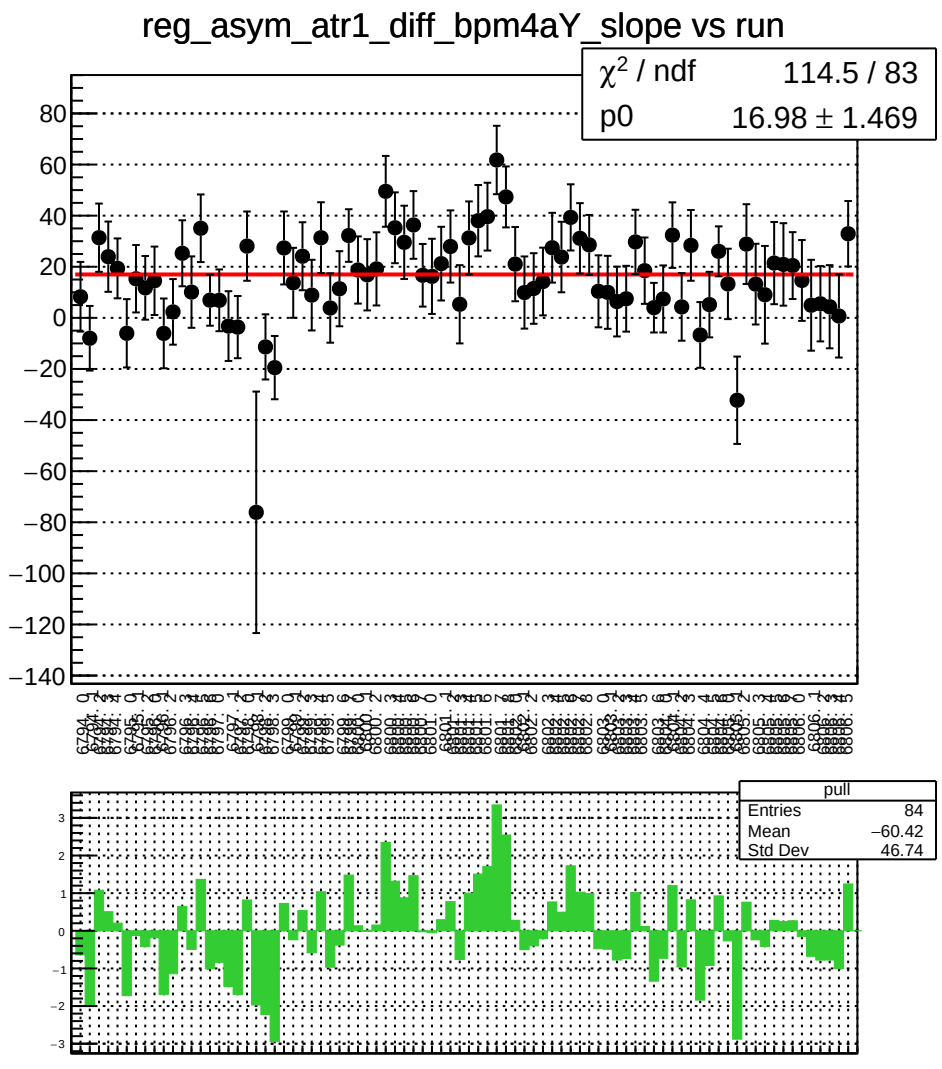

pull1D
Entries 84
Mean 0.001524
Std Dev 0.379

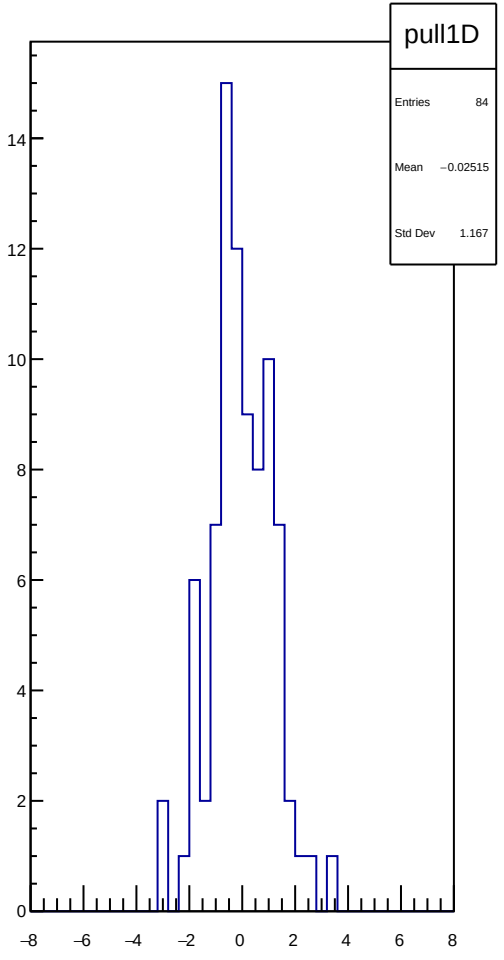

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 56.68 / 83
p0 −289.1 ± 0.3612
pull
Entries 84
Mean −627
Std Dev 656.3

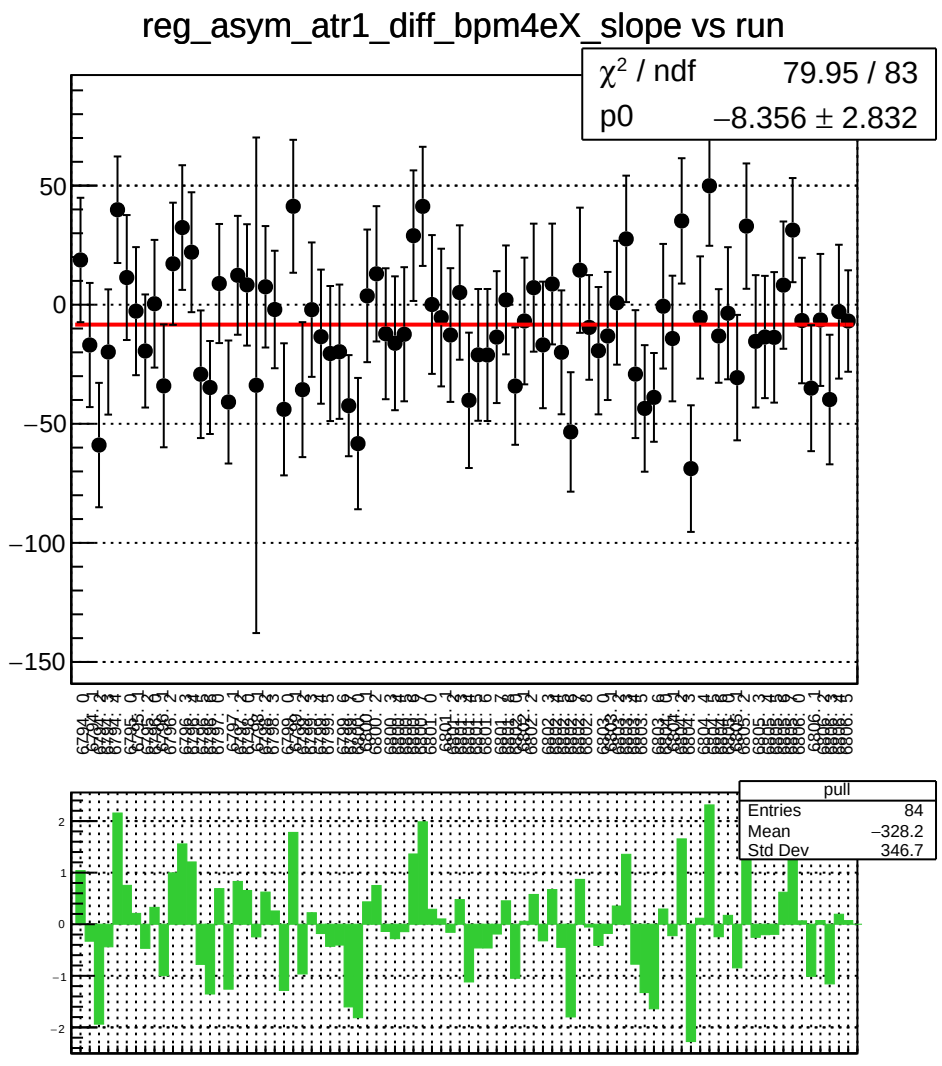

pull1D
Entries 84
Mean −0.006551
Std Dev 0.8214

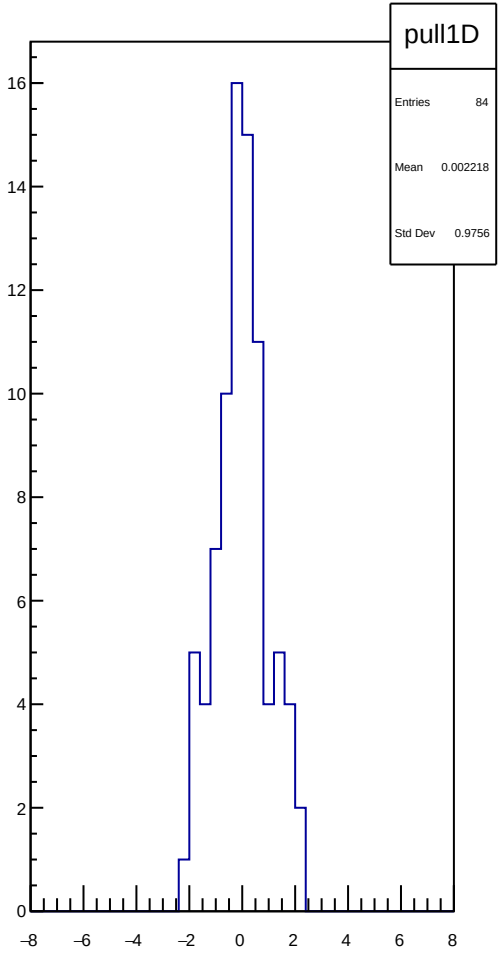

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 77.26 / 83
p0 −52.16 ± 3.021
50
0
−50
−100
−150
pull
Entries 84
Mean −154.6
Std Dev 182.4
2
1
0
−1
−2

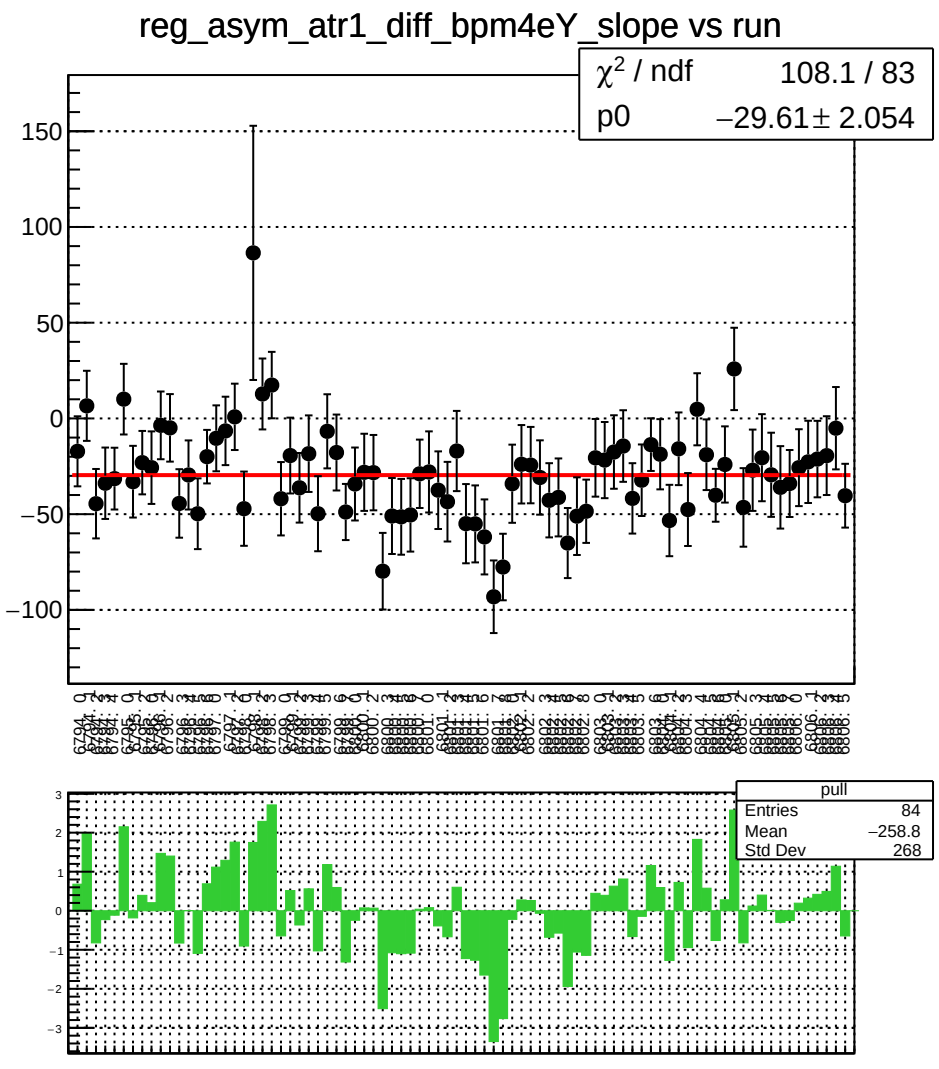

pull1D
Entries 84
Mean −0.005685
Std Dev 0.959
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

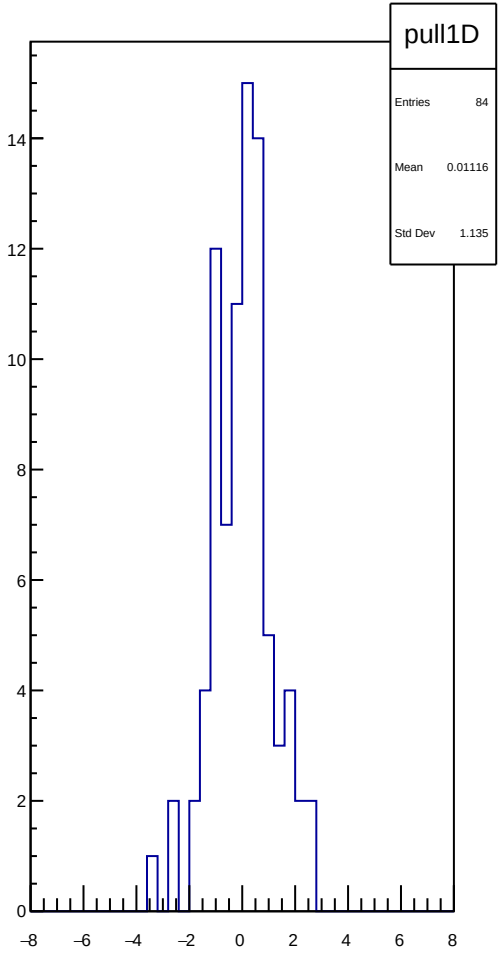

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 114.5 / 83
p0 16.98 ± 1.469
pull
Entries 84
Mean −60.42
Std Dev 46.74

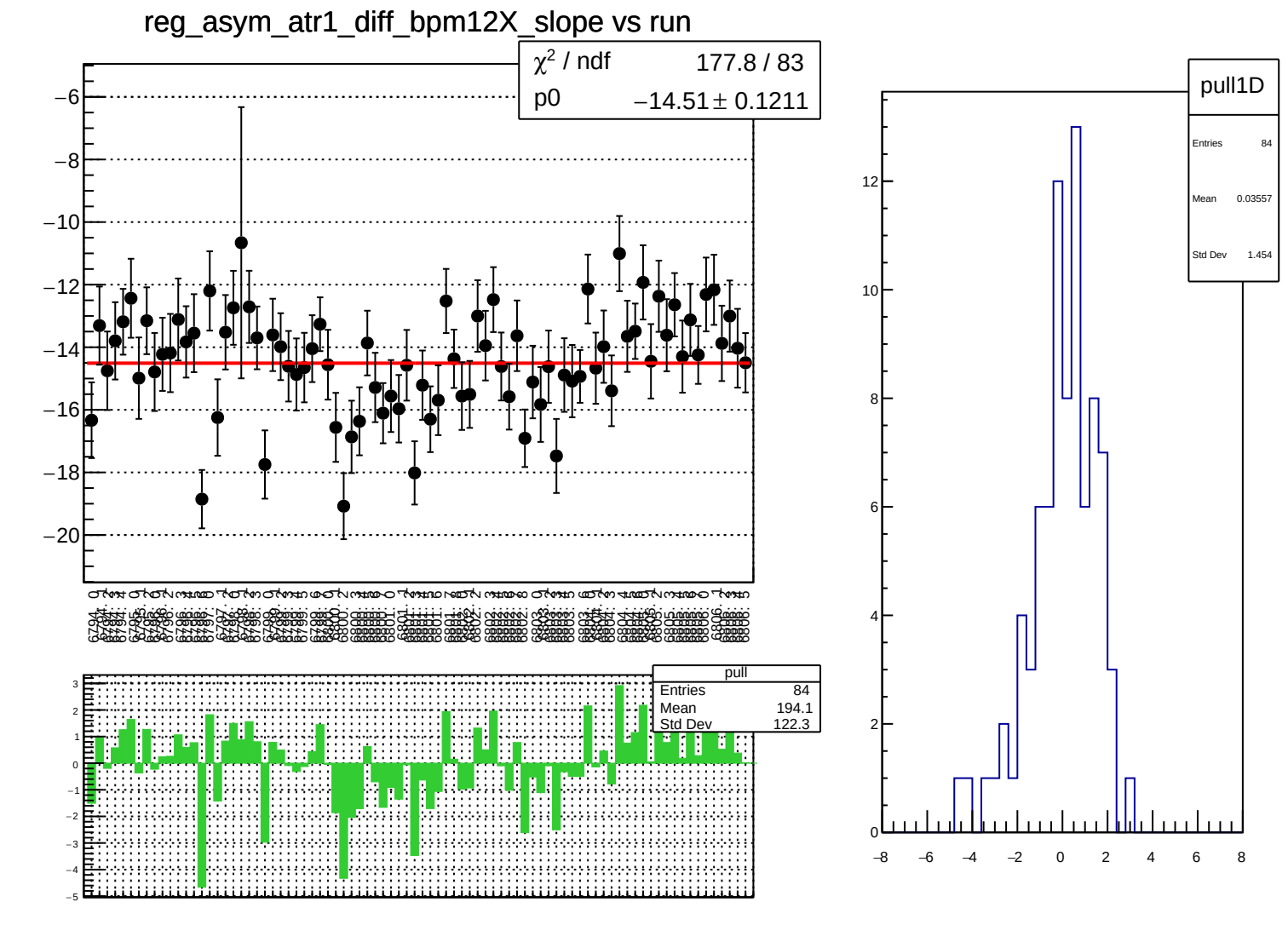

pull1D
Entries 84
Mean −0.02515
Std Dev 1.167

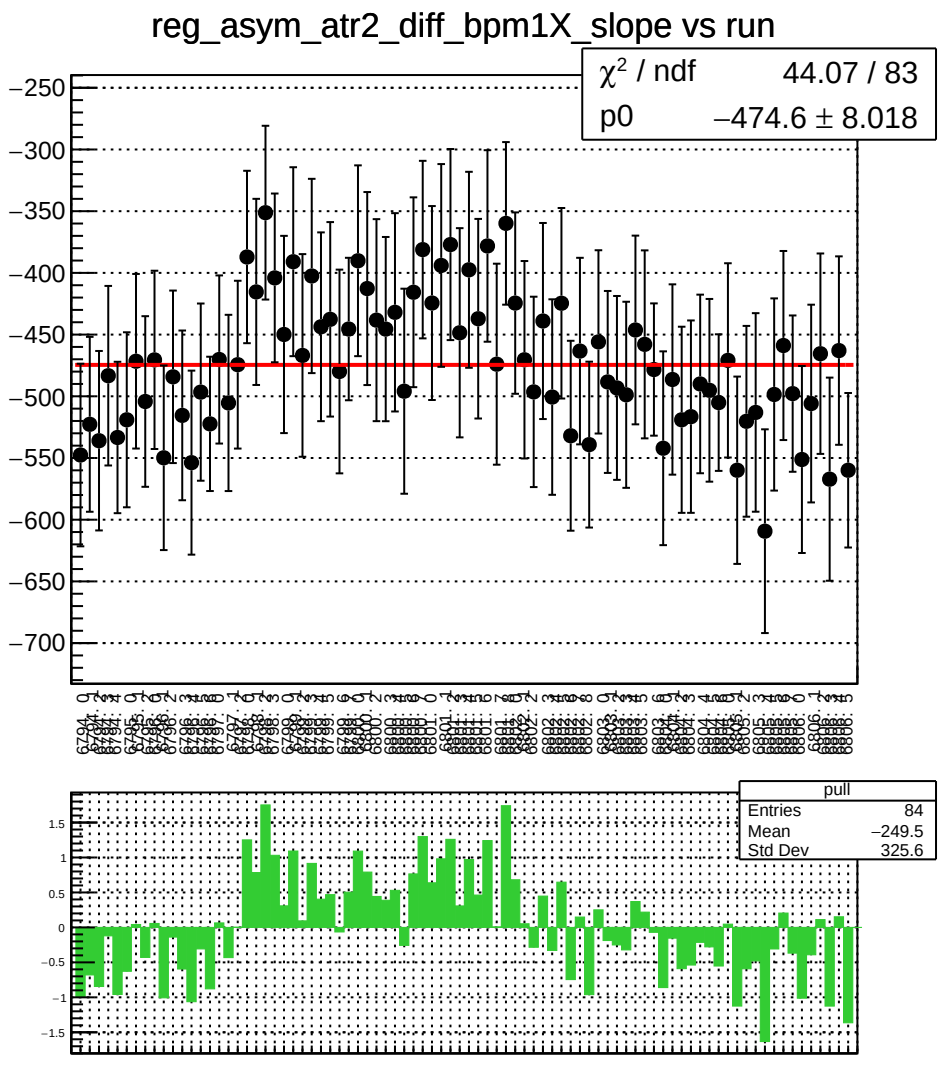

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 79.95 / 83
p0 −8.356 ± 2.832
50
0
−50
−100
−150
pull
Entries 84
Mean −328.2
Std Dev 346.7
2
1
0
−1
−2

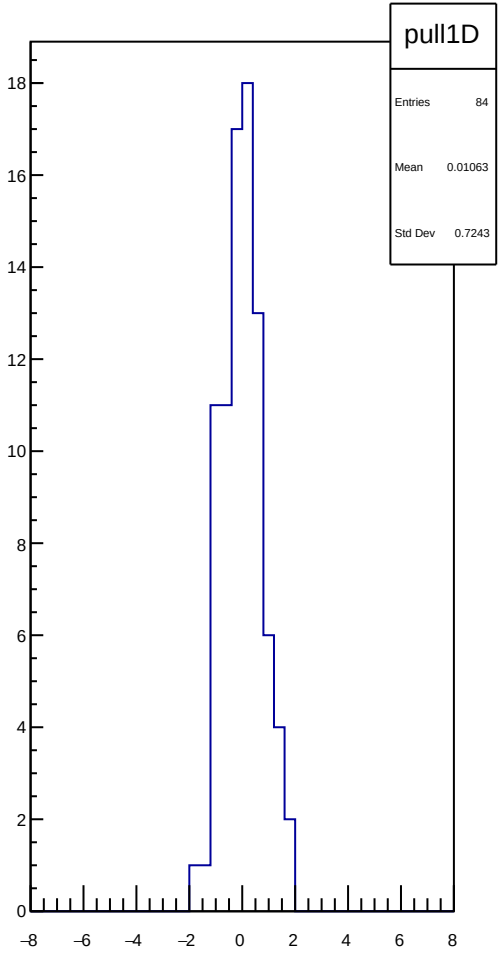

pull1D
Entries 84
Mean 0.002218
Std Dev 0.9756
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

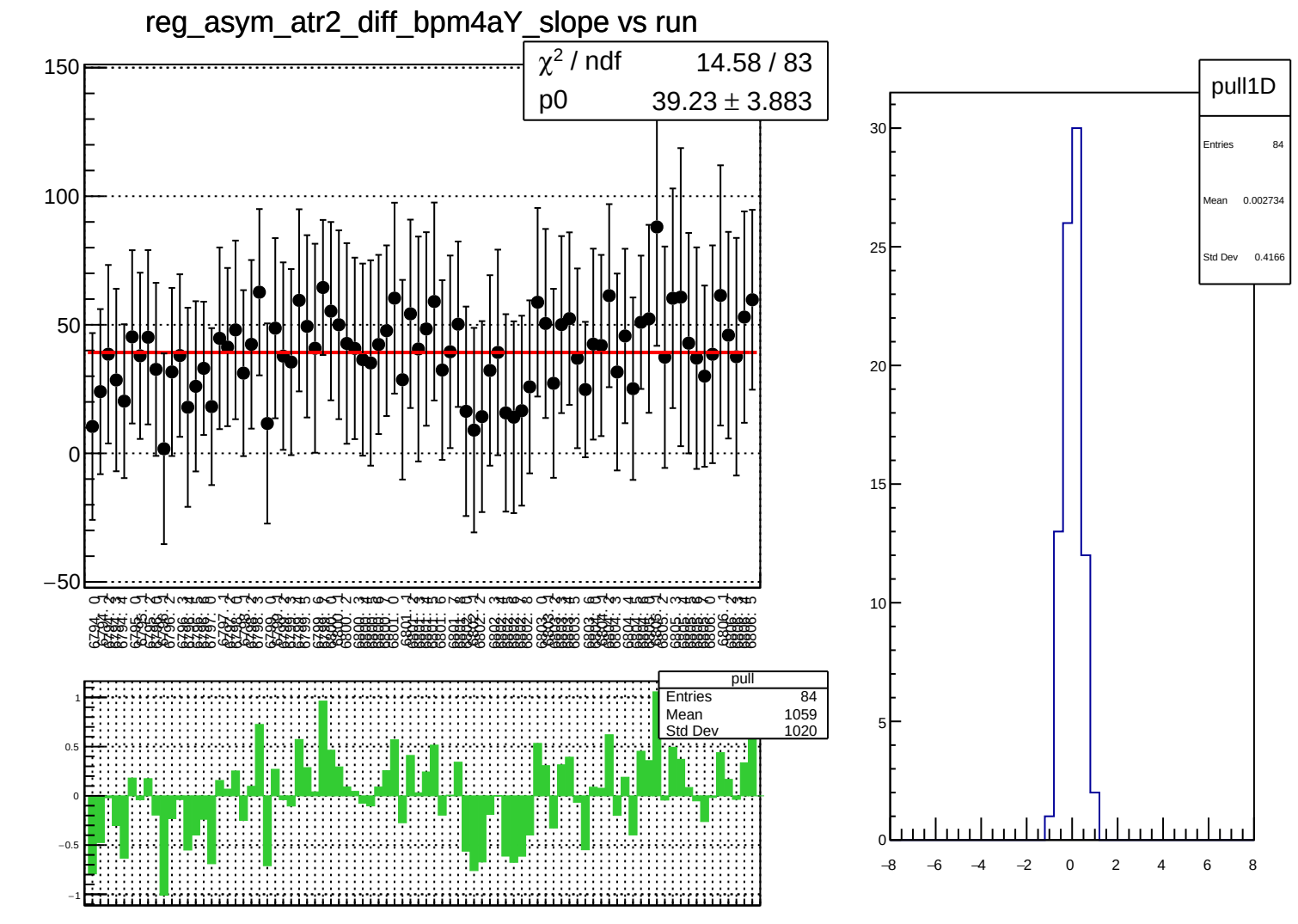

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 108.1 / 83
p0 −29.61 ± 2.054
150
100
50
0
−50
−100
pull
Entries 84
Mean −258.8
Std Dev 268
3
2
1
0
−1
−2
−3

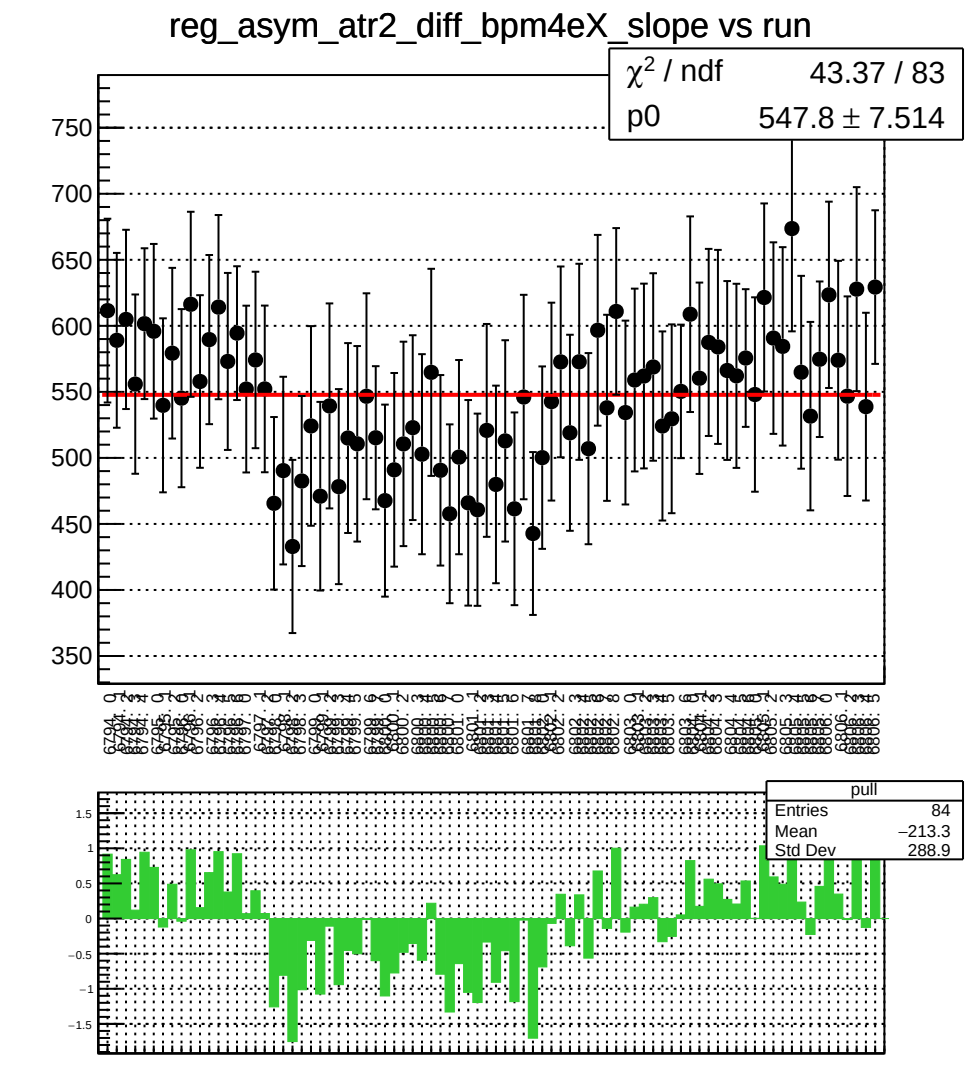

pull1D
Entries 84
Mean 0.01116
Std Dev 1.135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

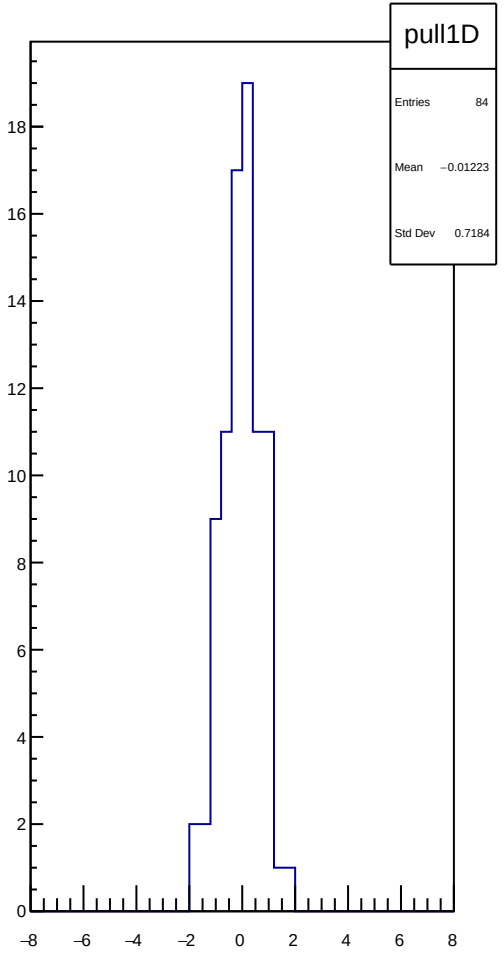

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 177.8 / 83
p0 −14.51 ± 0.1211
pull
Entries 84
Mean 194.1
Std Dev 122.3
pull1D
Entries 84
Mean 0.03557
Std Dev 1.454

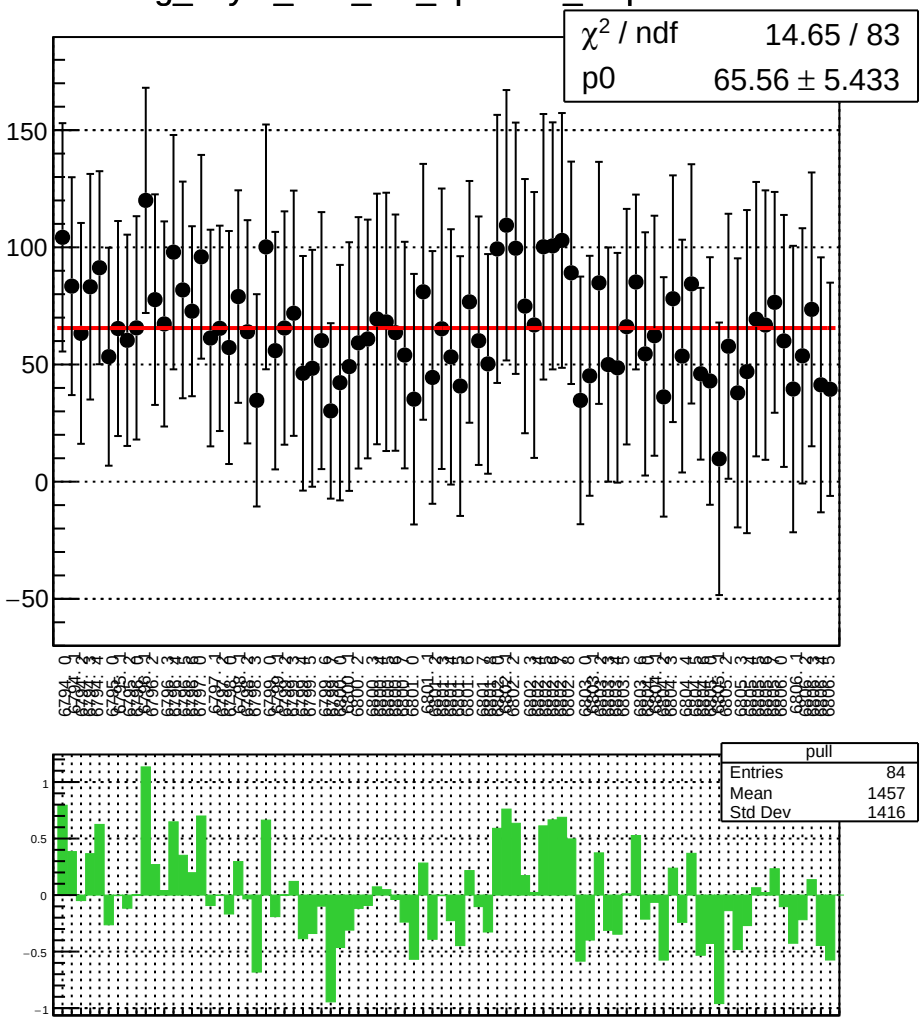

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 44.07 / 83
p0 −474.6 ± 8.018
pull
Entries 84
Mean −249.5
Std Dev 325.6

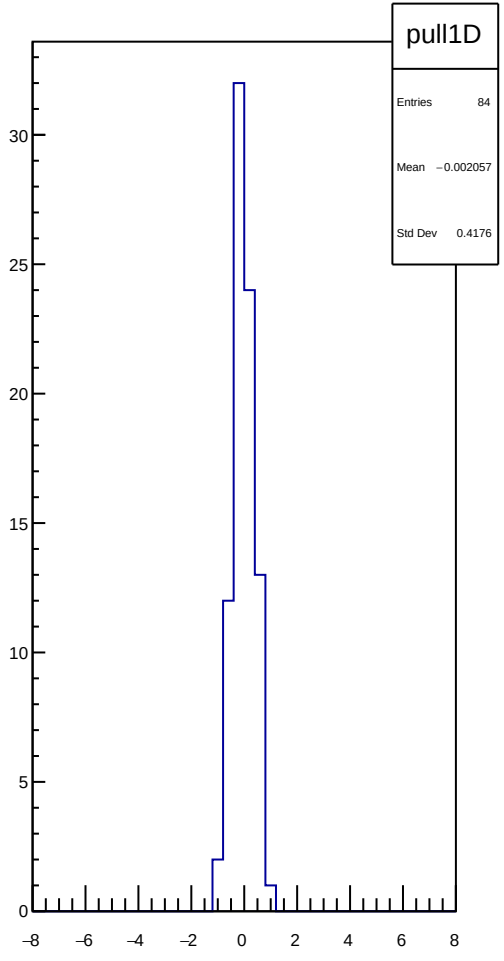

pull1D
Entries 84
Mean 0.01063
Std Dev 0.7243

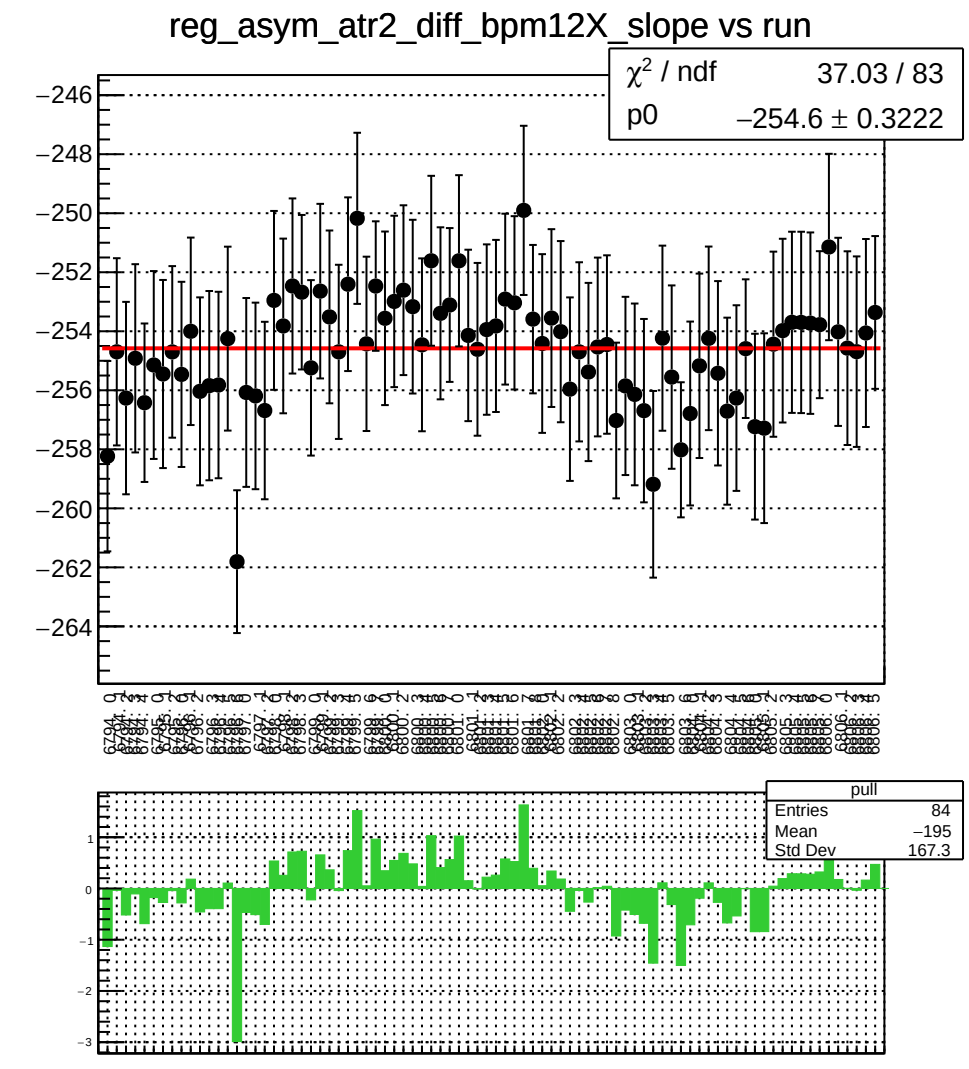

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 14.58 / 83
p0 39.23 ± 3.883
pull
Entries 84
Mean 1059
Std Dev 1020
pull1D
Entries 84
Mean 0.002734
Std Dev 0.4166

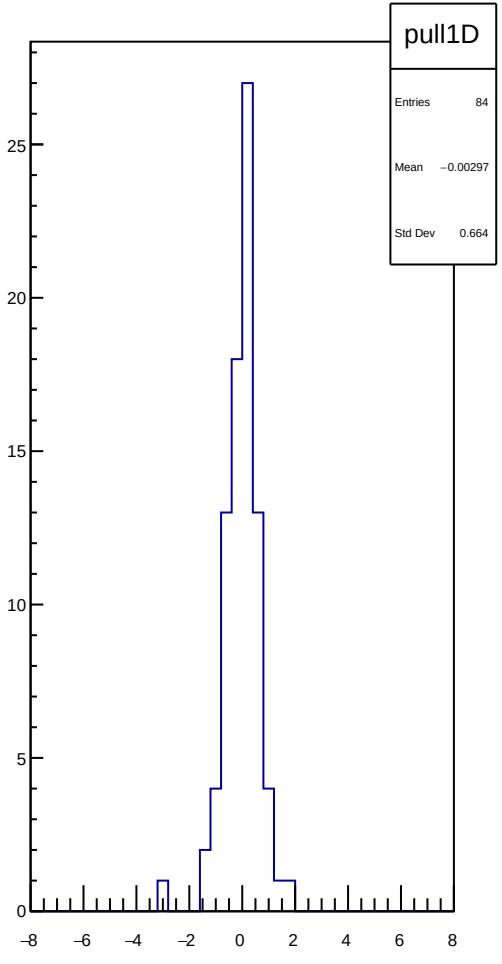

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 43.37 / 83
p0 547.8 ± 7.514
pull
Entries 84
Mean −213.3
Std Dev 288.9

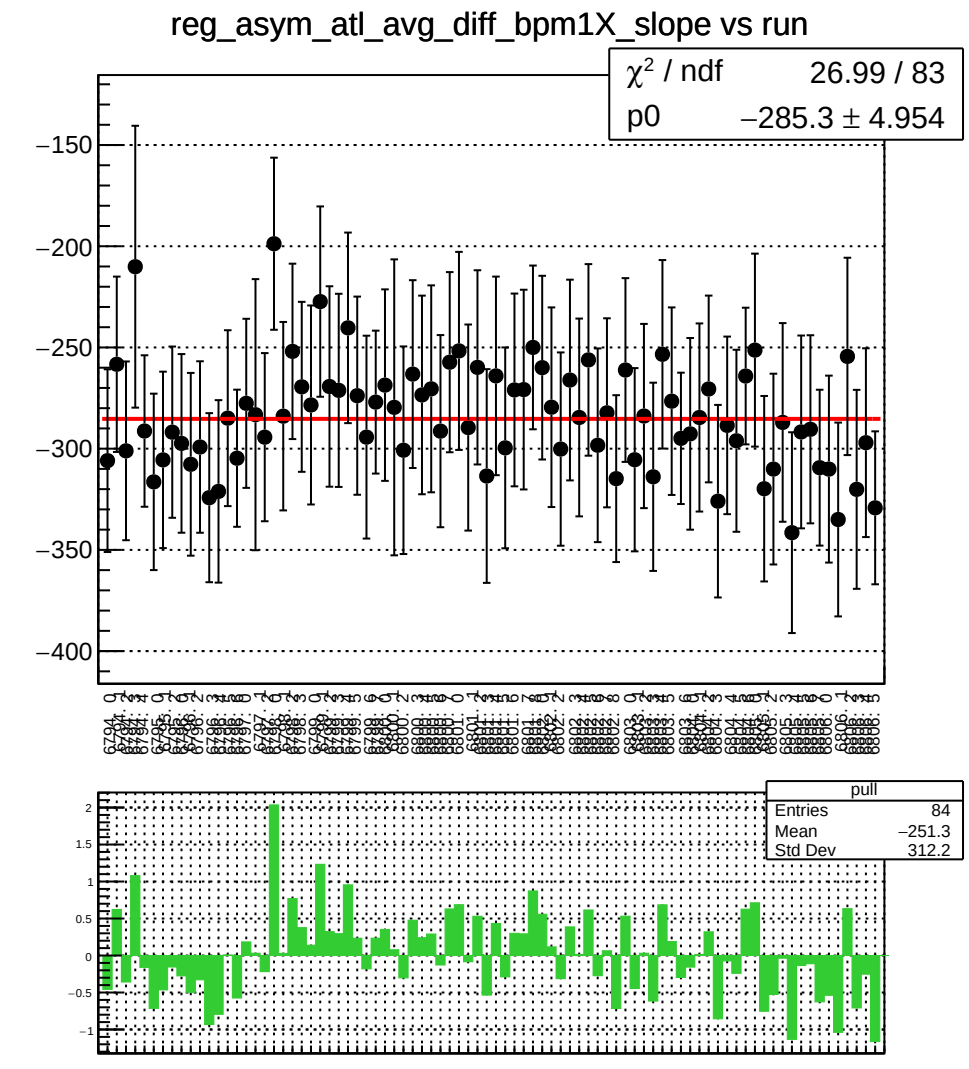

pull1D
Entries 84
Mean −0.01223
Std Dev 0.7184

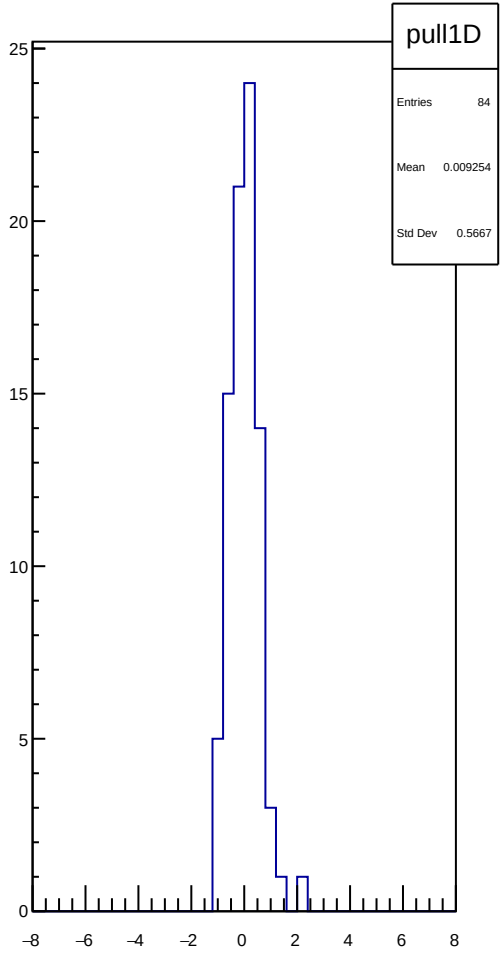

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 14.65 / 83
p0 65.56 ± 5.433
150
100
50
0
−50
pull
Entries 84
Mean 1457
Std Dev 1416
1
0.5
0
−0.5
−1

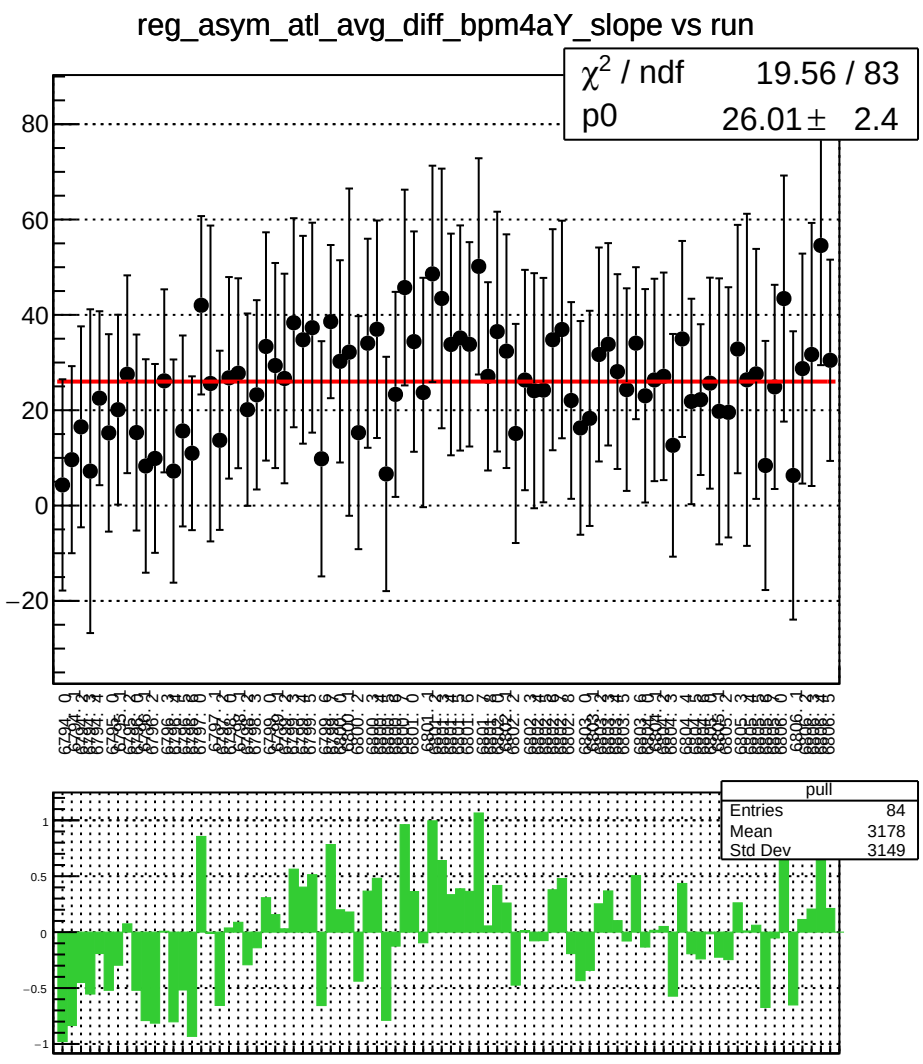

pull1D
Entries 84
Mean −0.002057
Std Dev 0.4176
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

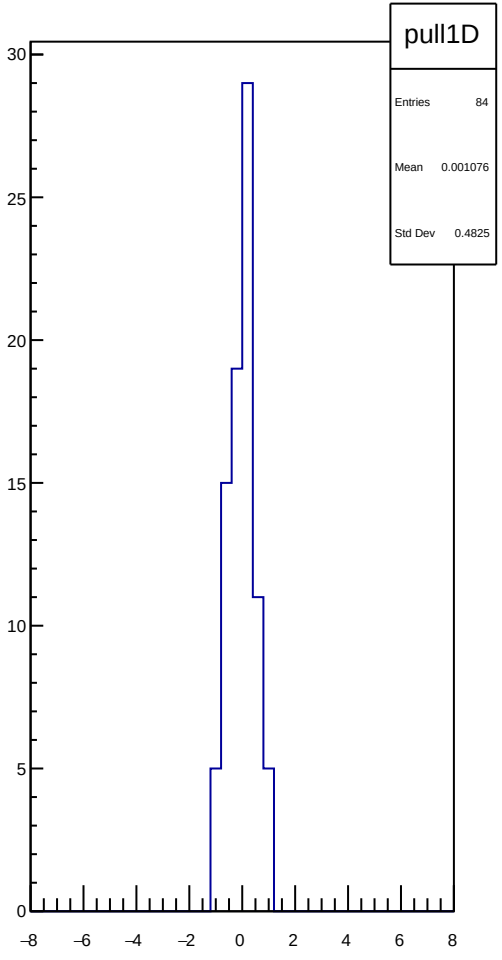

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 37.03 / 83
p0 −254.6 ± 0.3222
pull
Entries 84
Mean −195
Std Dev 167.3

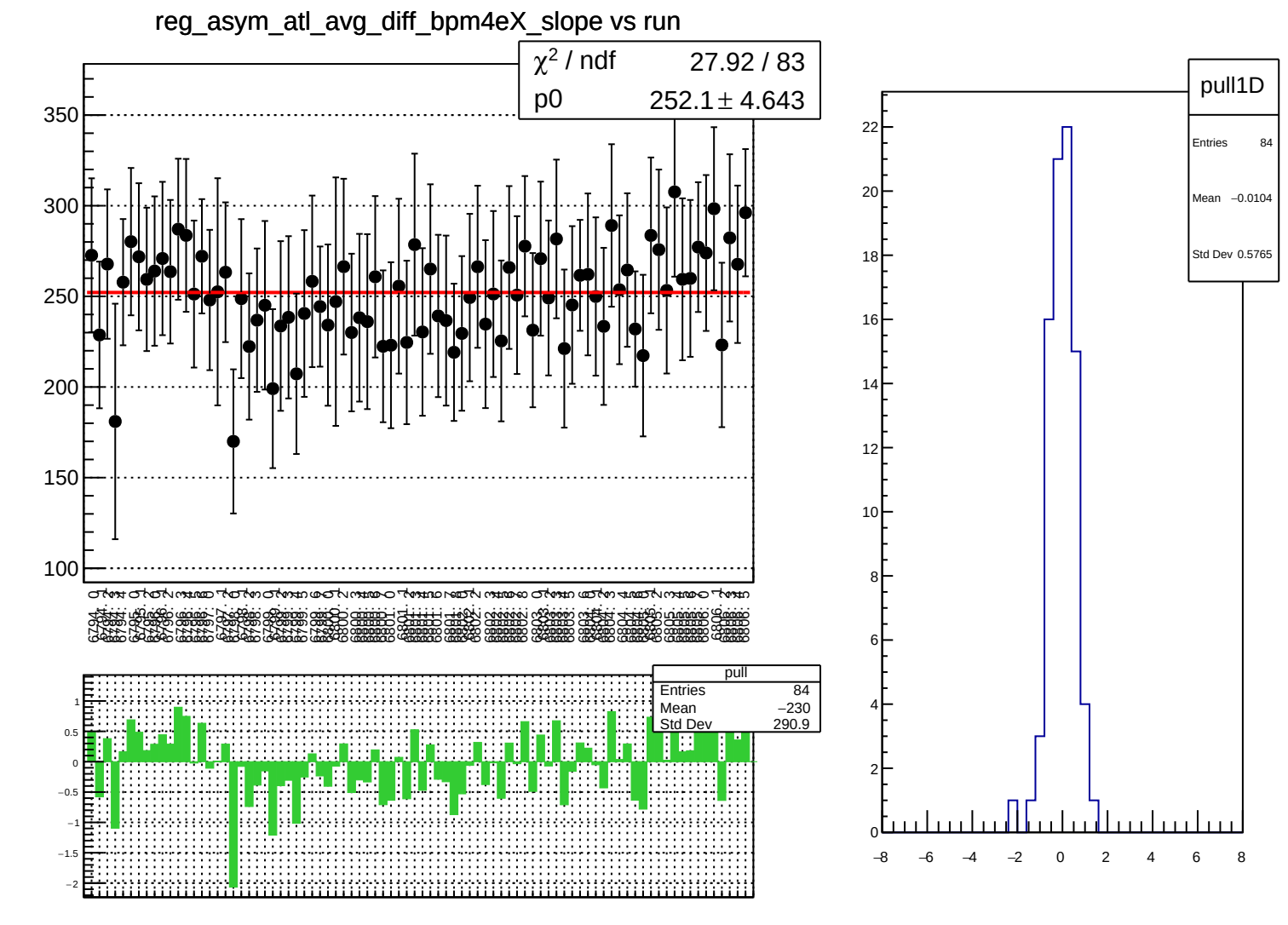

pull1D
Entries 84
Mean −0.00297
Std Dev 0.664

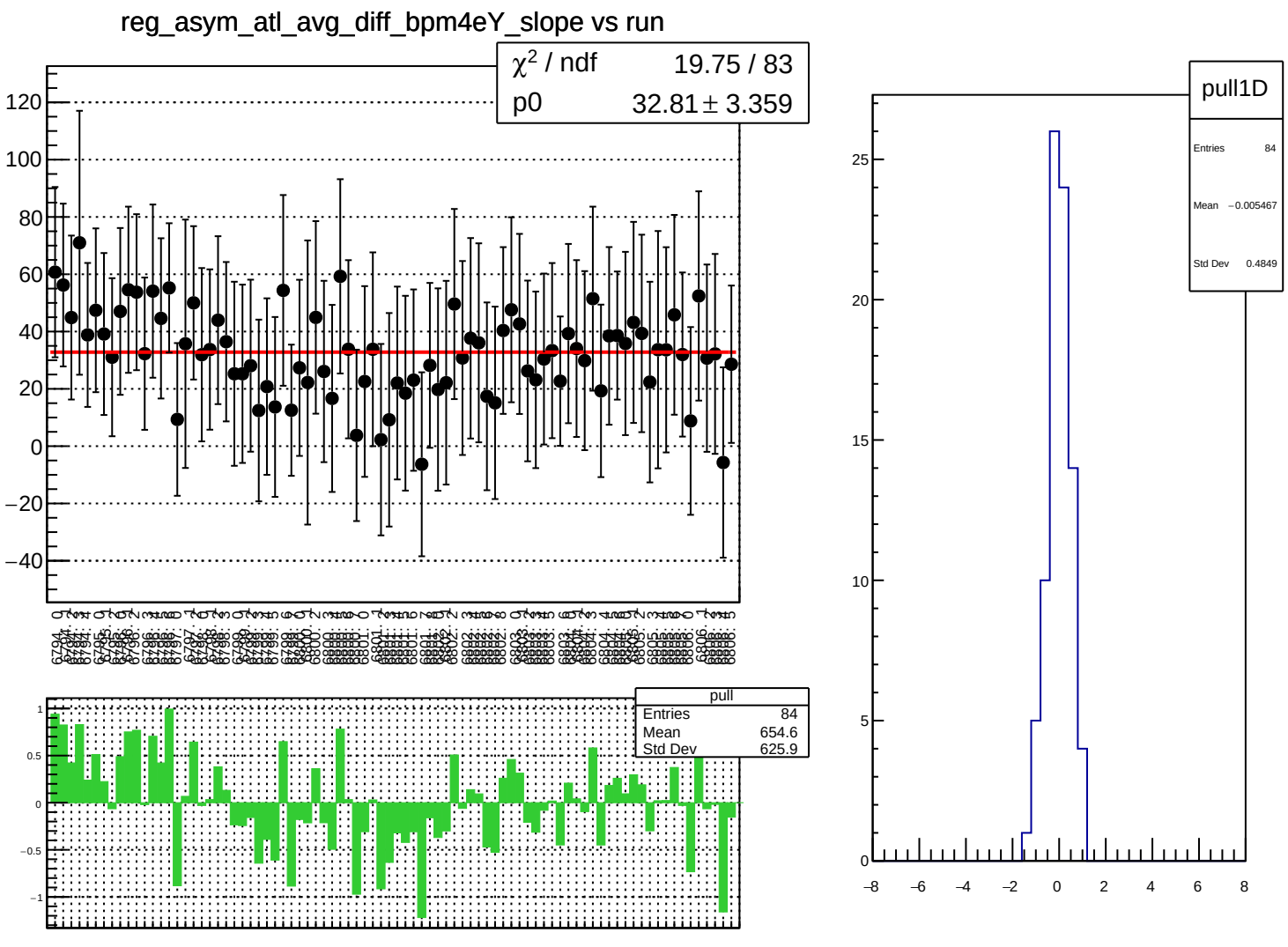

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 26.99 / 83
p0 −285.3 ± 4.954
−150
−200
−250
−300
−350
−400
pull
Entries 84
Mean −251.3
Std Dev 312.2
2
1.5
1
0.5
0
−0.5
−1

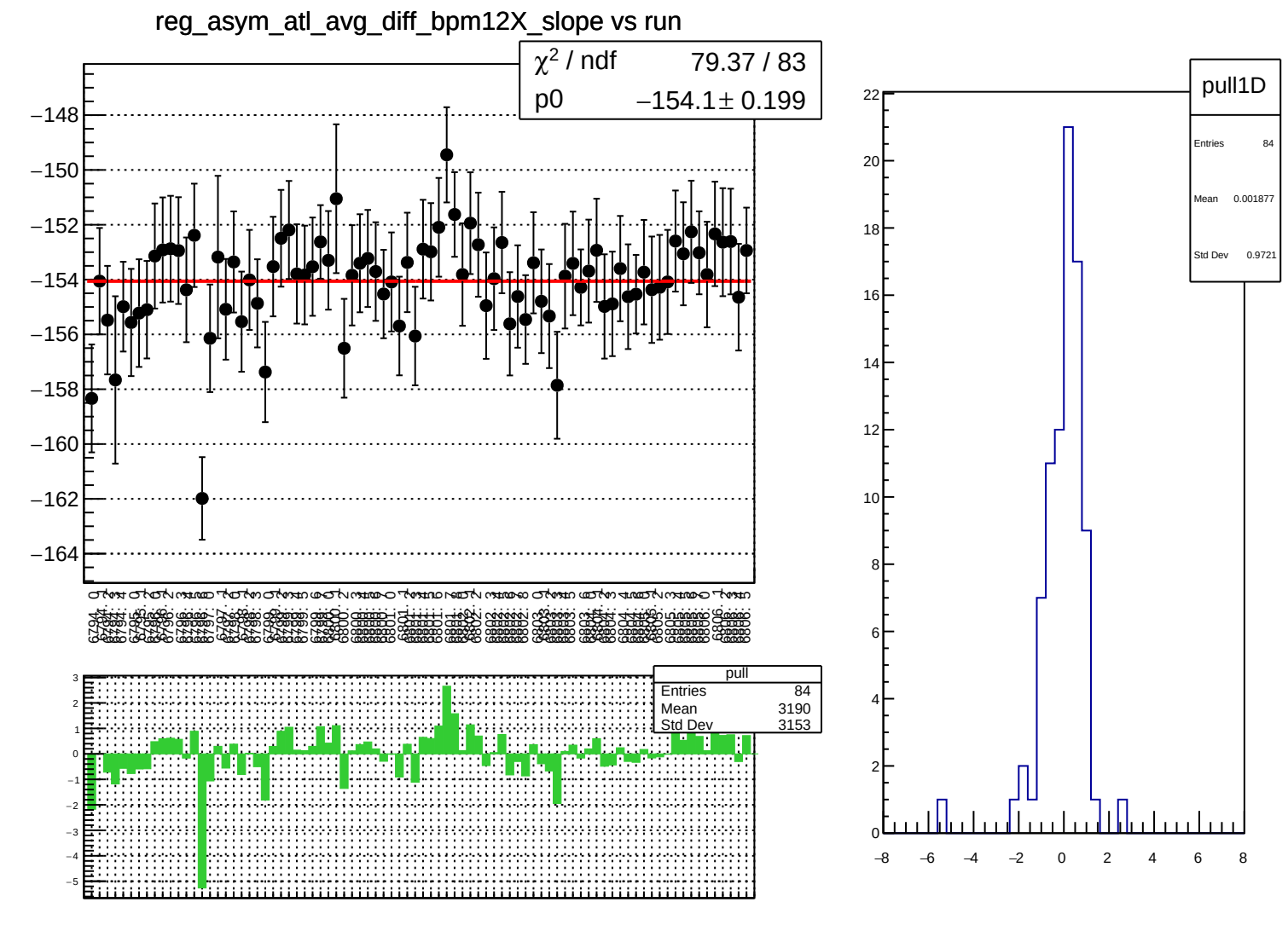

pull1D
Entries 84
Mean 0.009254
Std Dev 0.5667
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

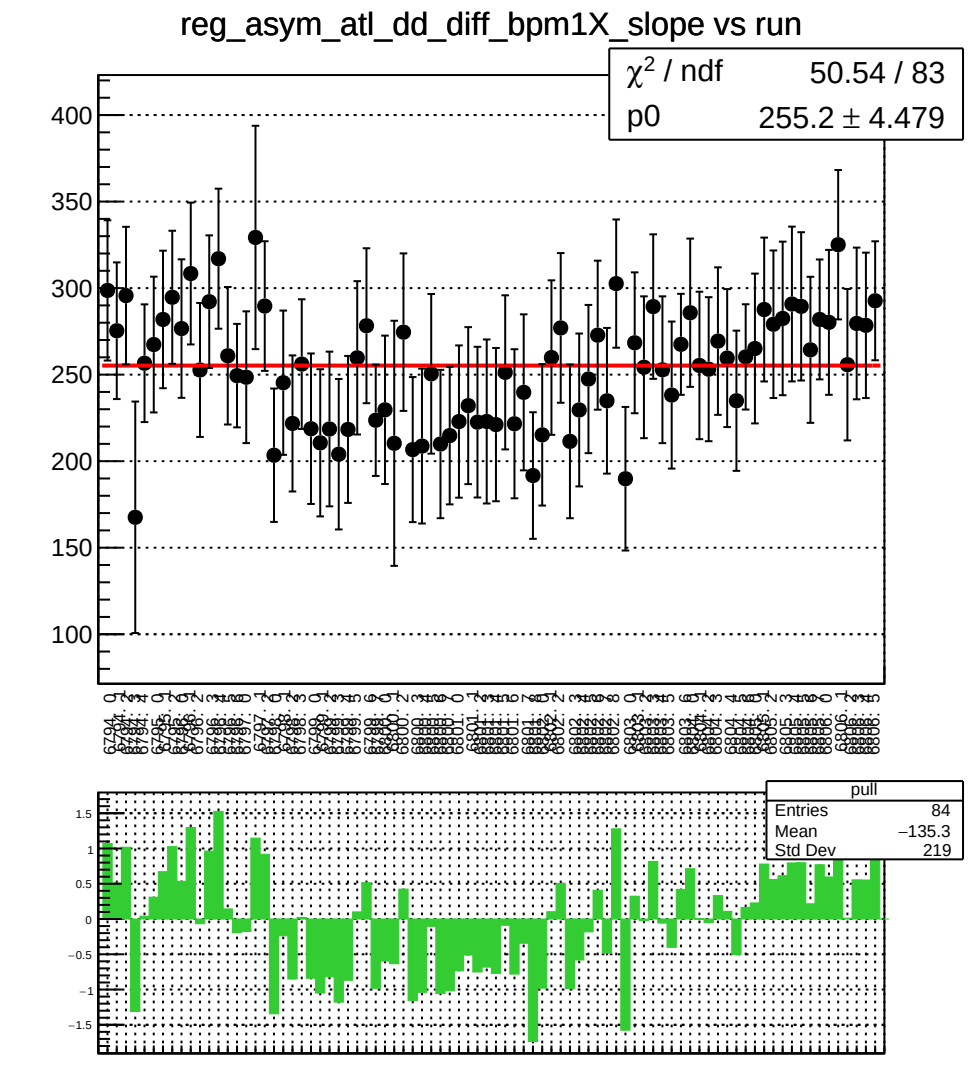

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.56 / 83
p0 26.01 ± 2.4
pull
Entries 84
Mean 3178
Std Dev 3149

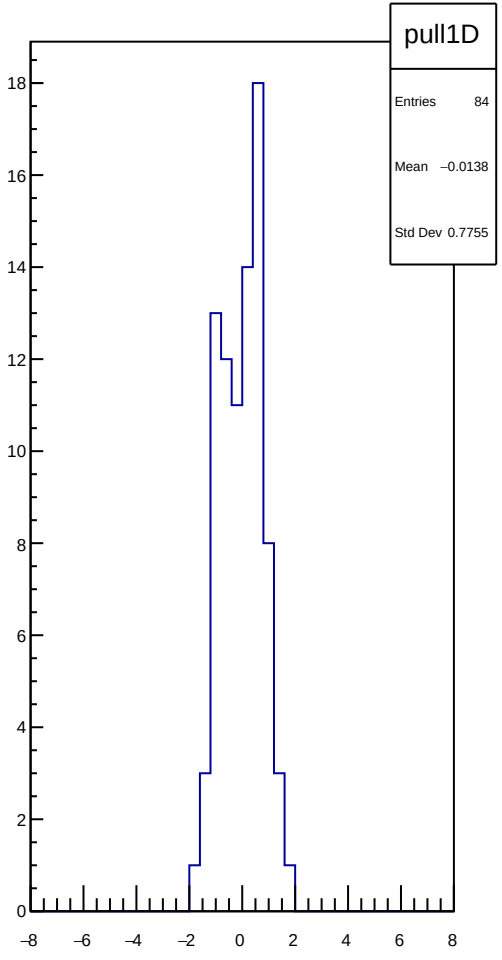

pull1D
Entries 84
Mean 0.001076
Std Dev 0.4825

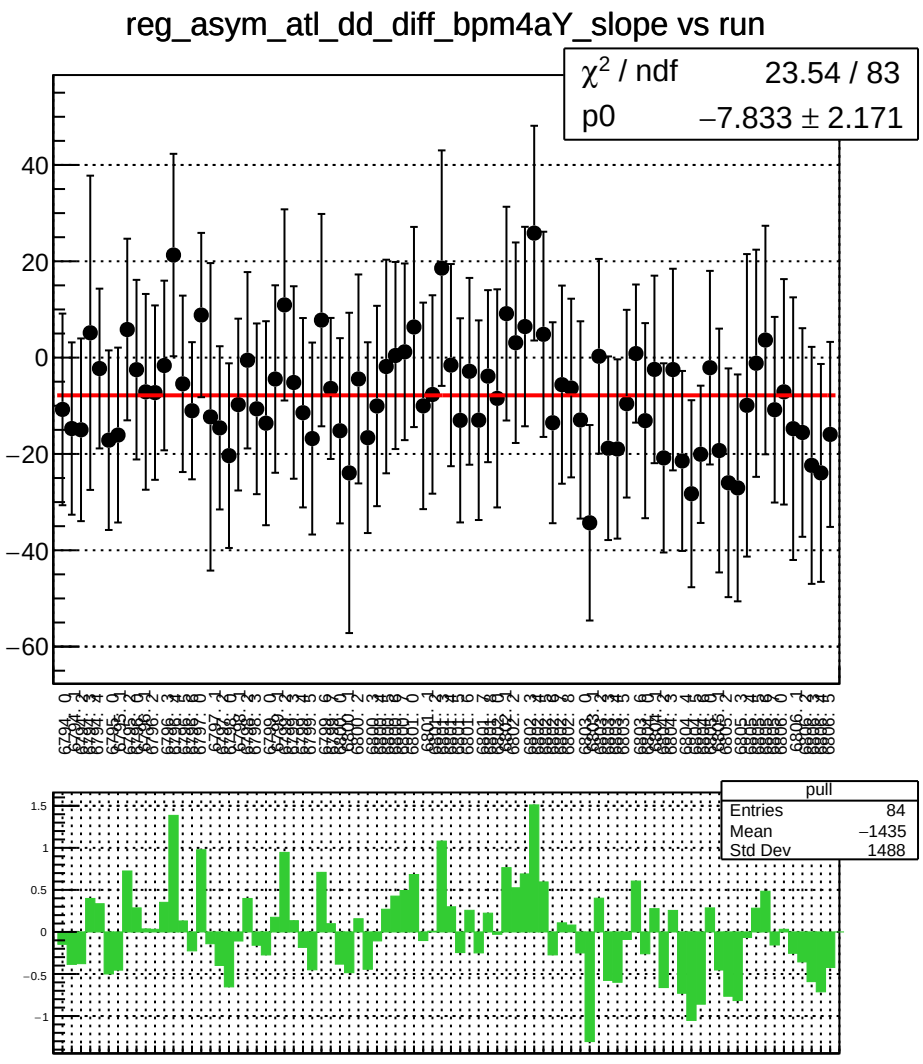

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.92 / 83
p0 252.1 ± 4.643
pull
Entries 84
Mean −230
Std Dev 290.9
pull1D
Entries 84
Mean −0.0104
Std Dev 0.5765

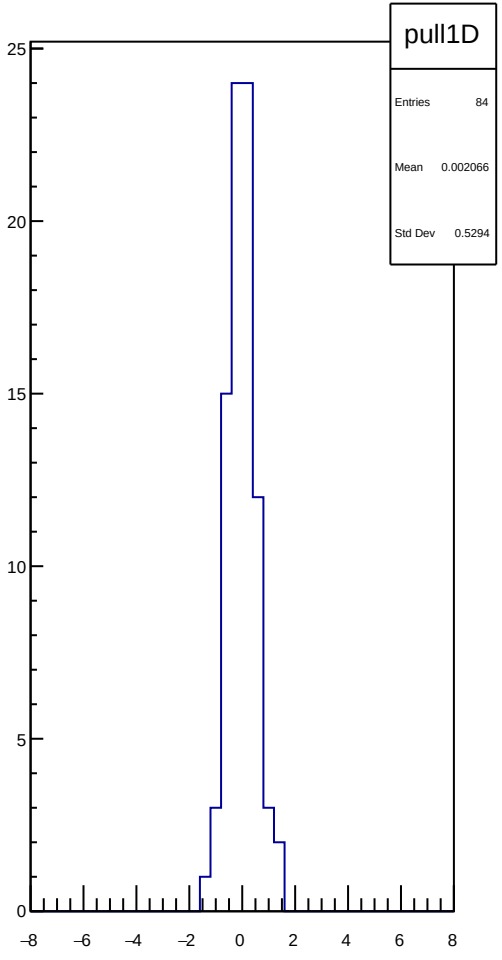

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.75 / 83
p0 32.81 ± 3.359
pull
Entries 84
Mean 654.6
Std Dev 625.9
pull1D
Entries 84
Mean −0.005467
Std Dev 0.4849

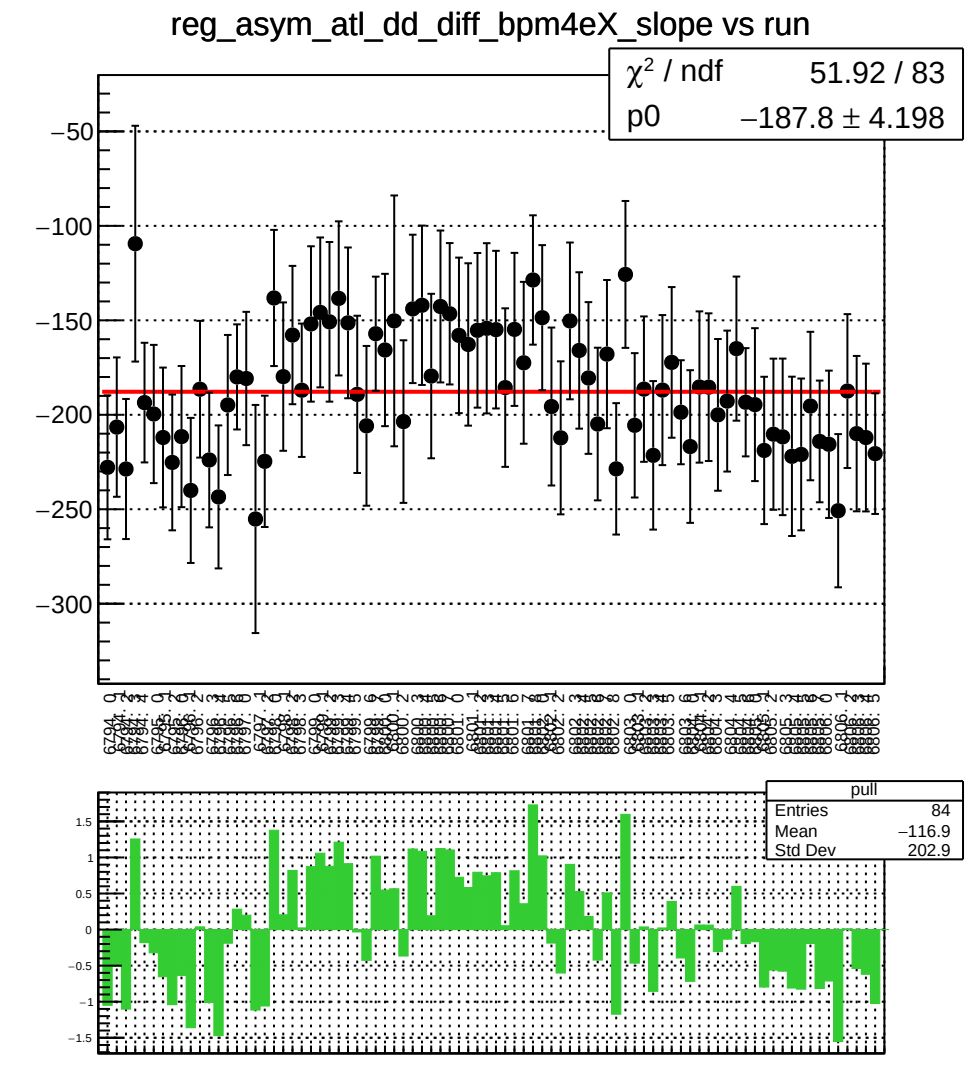

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 79.37 / 83
p0 −154.1± 0.199
pull
Entries 84
Mean 3190
Std Dev 3153
pull1D
Entries 84
Mean 0.001877
Std Dev 0.9721

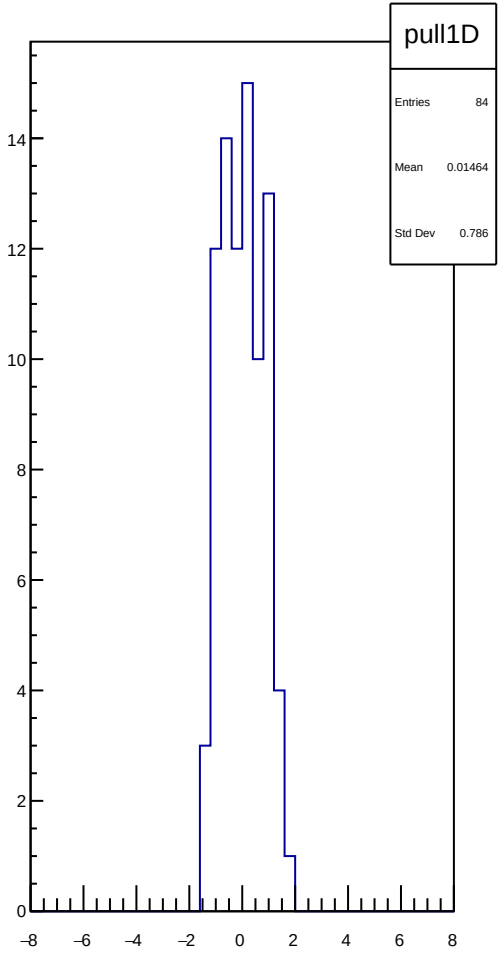

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 50.54 / 83
p0 255.2 ± 4.479
pull
Entries 84
Mean −135.3
Std Dev 219

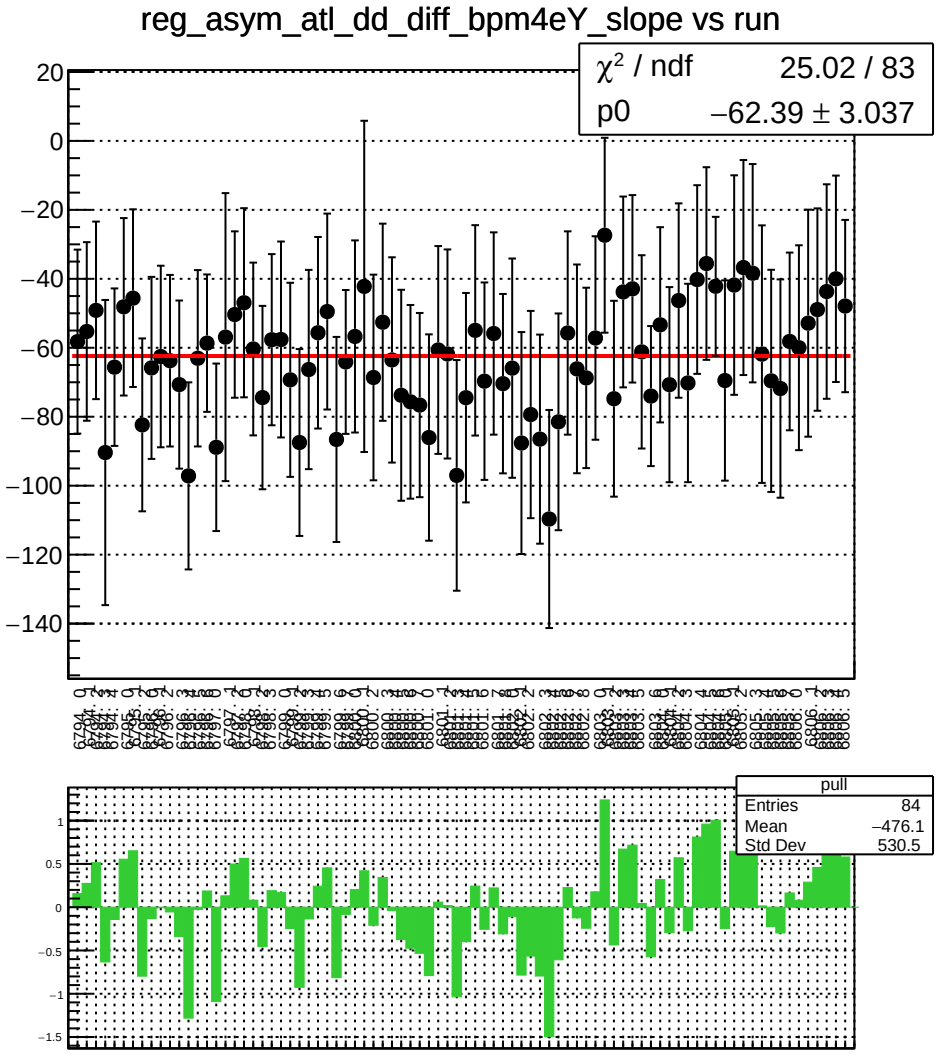

pull1D
Entries 84
Mean −0.0138
Std Dev 0.7755

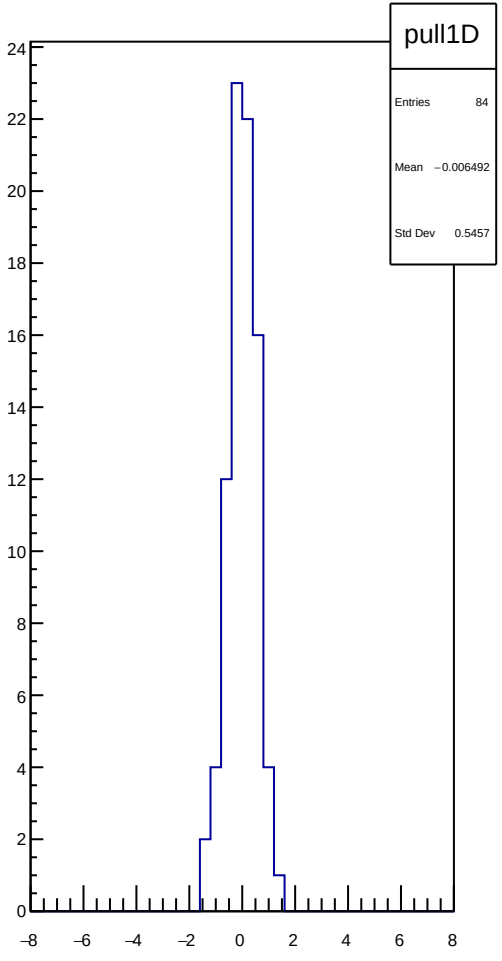

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.54 / 83
p0 −7.833 ± 2.171
pull
Entries 84
Mean −1435
Std Dev 1488

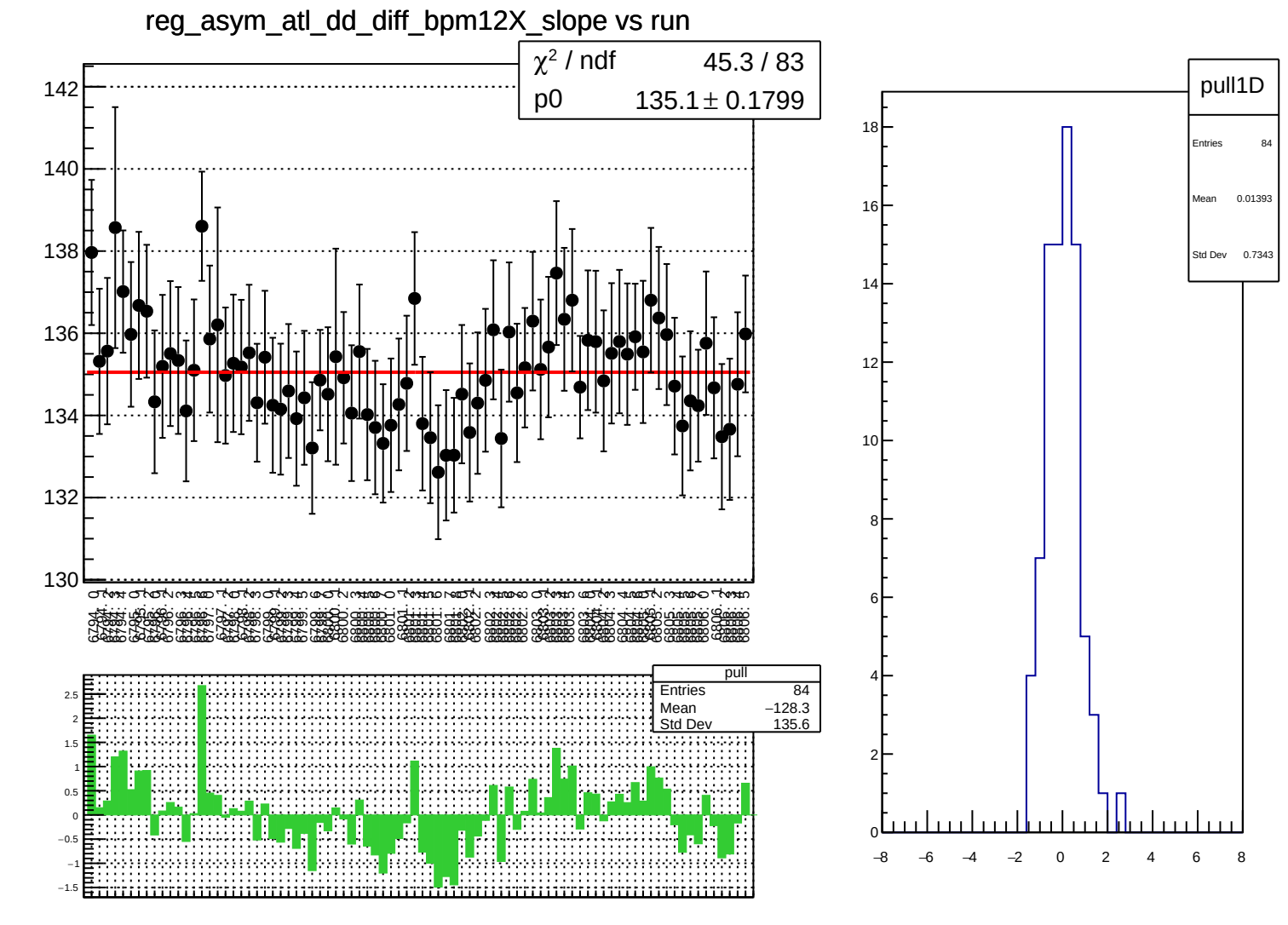

pull1D
Entries 84
Mean 0.002066
Std Dev 0.5294

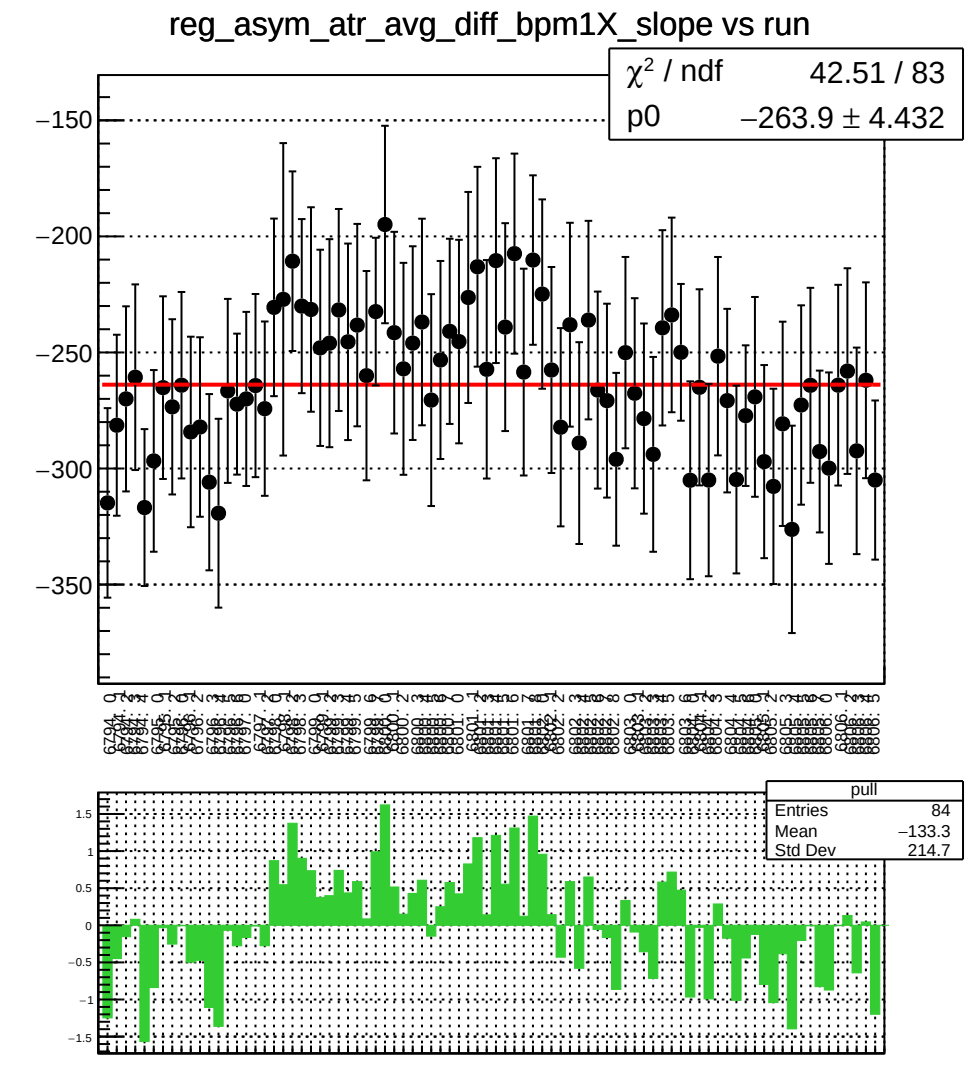

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.92 / 83
p0 −187.8 ± 4.198
pull
Entries 84
Mean −116.9
Std Dev 202.9

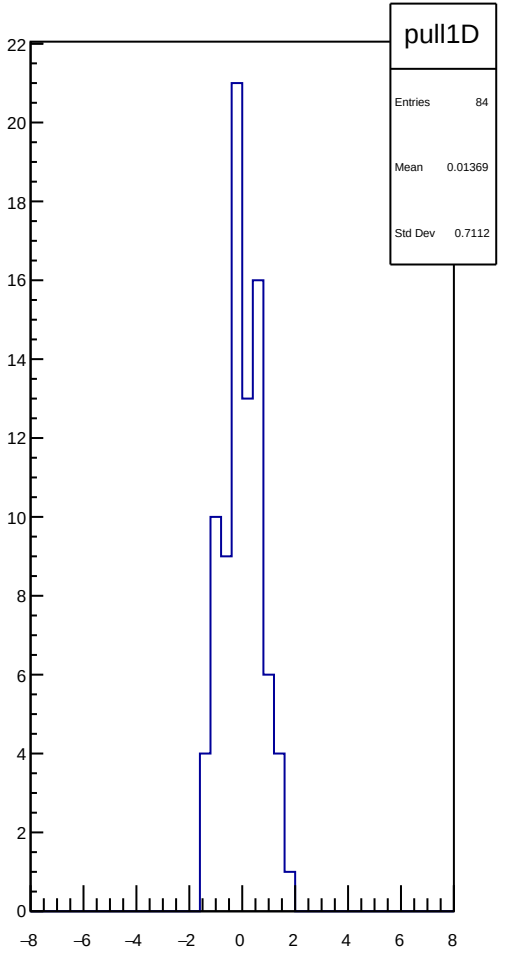

pull1D
Entries 84
Mean 0.01464
Std Dev 0.786

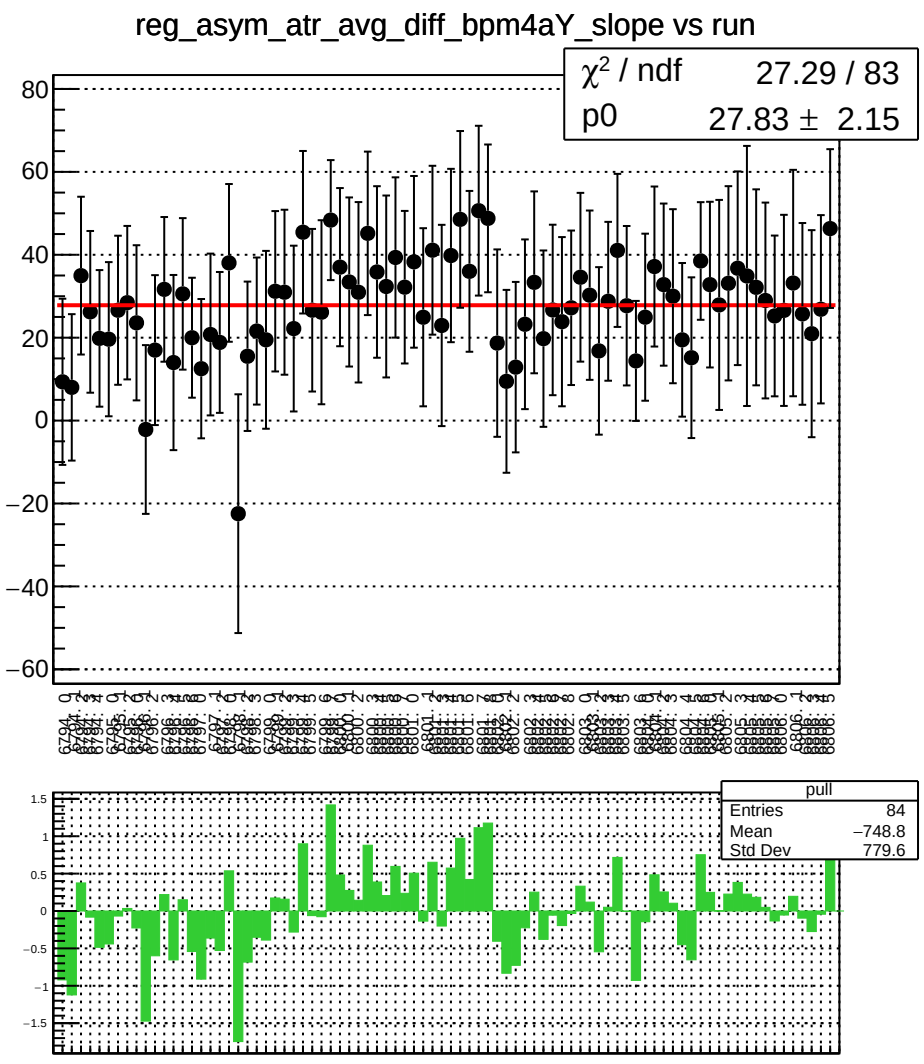

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.02 / 83
p0 −62.39 ± 3.037
pull
Entries 84
Mean −476.1
Std Dev 530.5

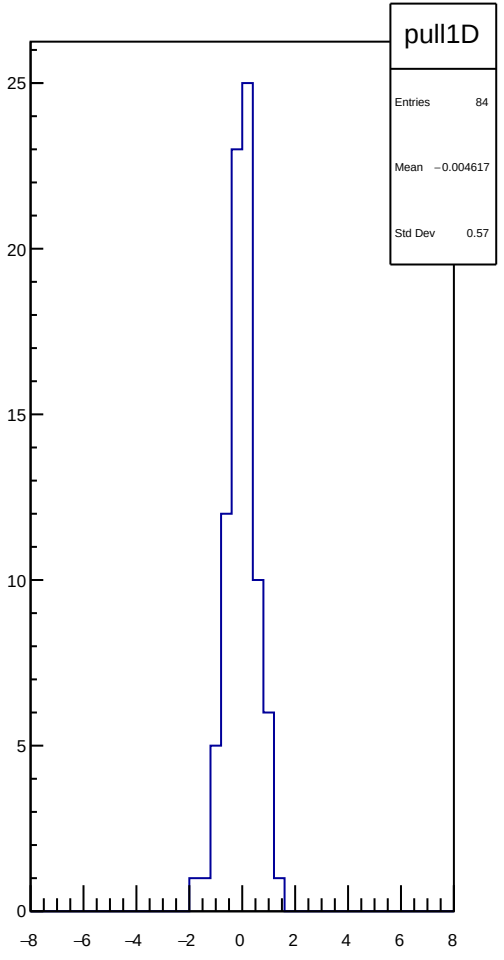

pull1D
Entries 84
Mean −0.006492
Std Dev 0.5457

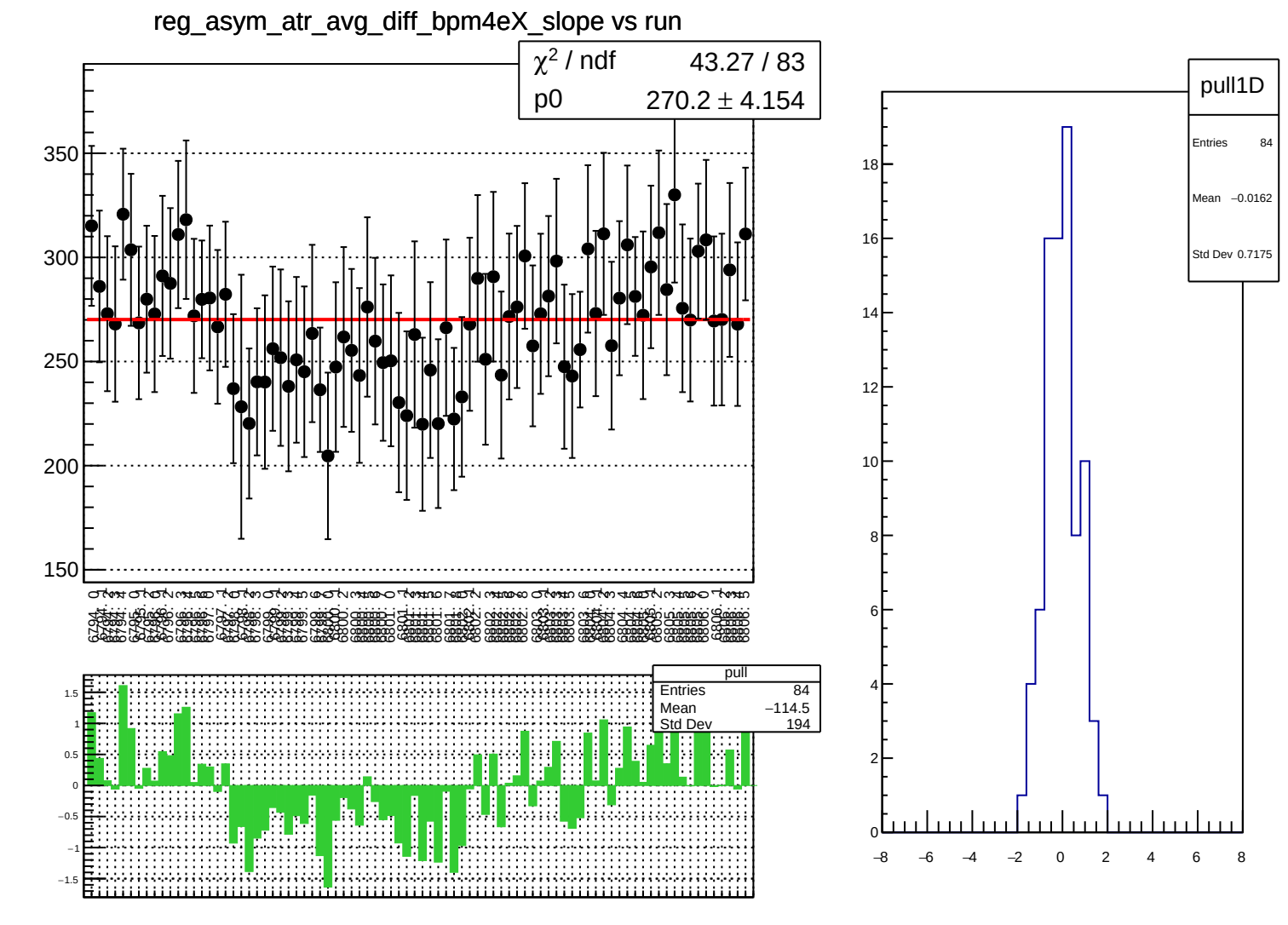

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 45.3 / 83
p0 135.1 ± 0.1799
142
140
138
136
134
132
130
pull
Entries 84
Mean −128.3
Std Dev 135.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.01393
Std Dev 0.7343
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

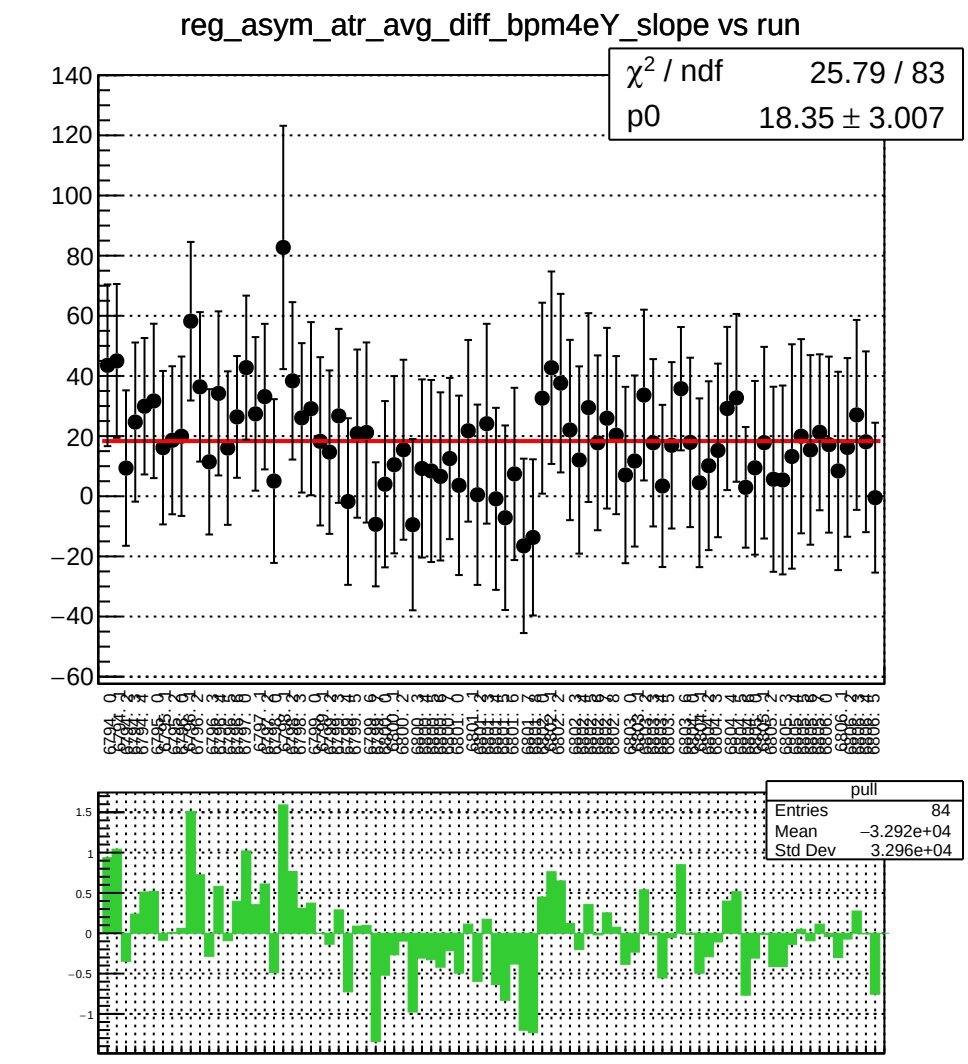

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 42.51 / 83
p0 −263.9 ± 4.432
−150
−200
−250
−300
−350
pull
Entries 84
Mean −133.3
Std Dev 214.7
1.5
1
0.5
0
−0.5
−1
−1.5

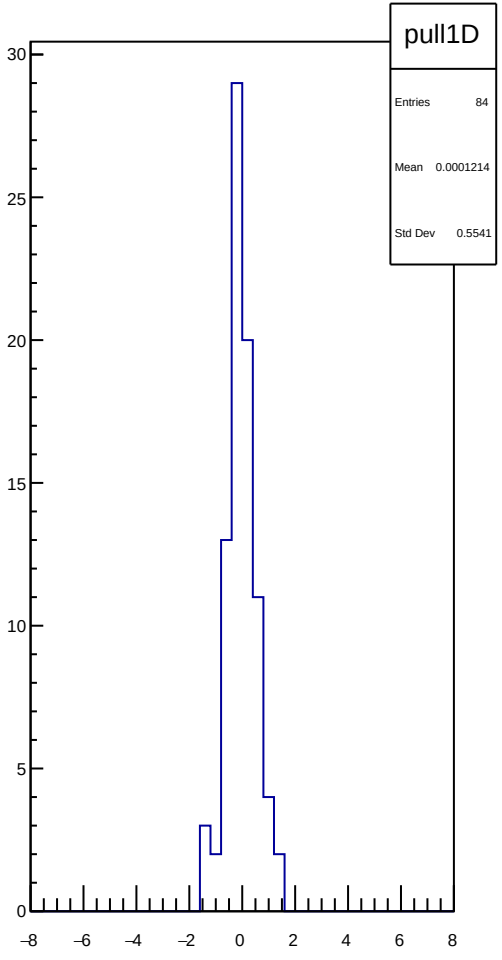

pull1D
Entries 84
Mean 0.01369
Std Dev 0.7112
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

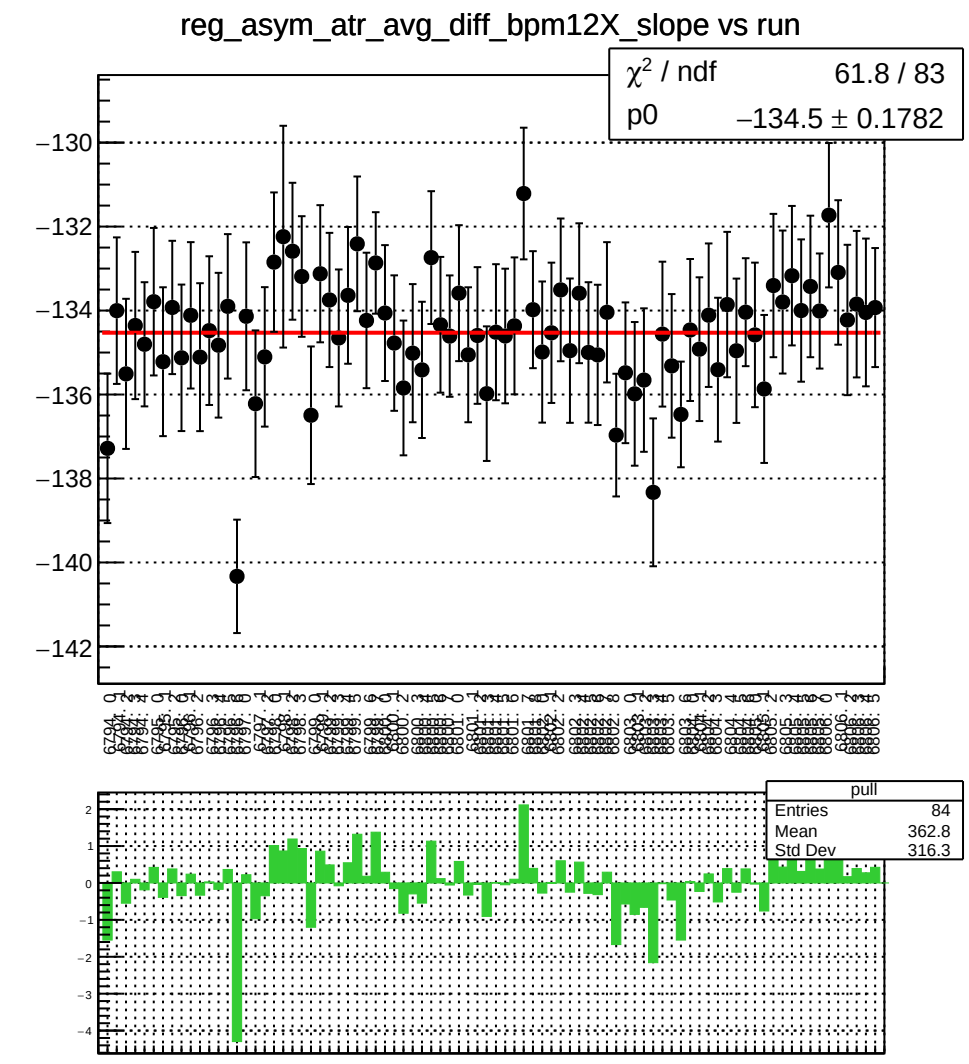

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.29 / 83
p0 27.83 ± 2.15
pull
Entries 84
Mean −748.8
Std Dev 779.6

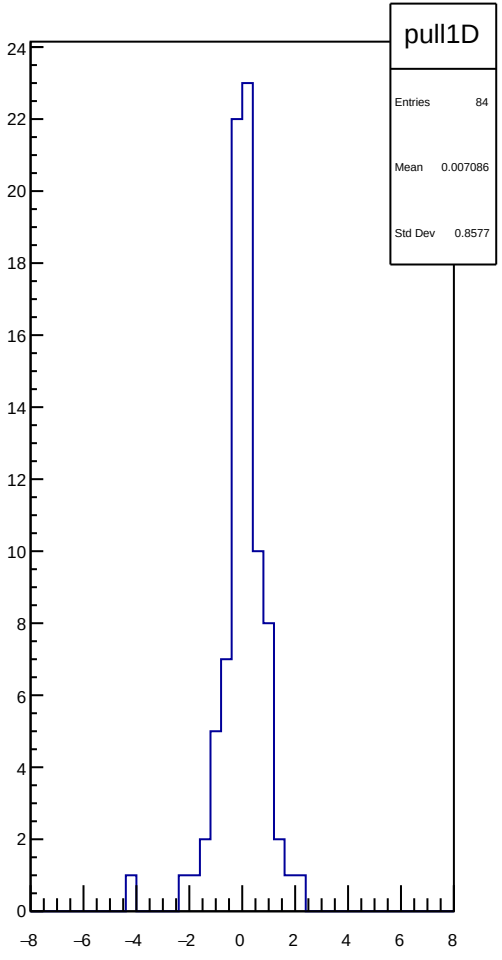

pull1D
Entries 84
Mean −0.004617
Std Dev 0.57

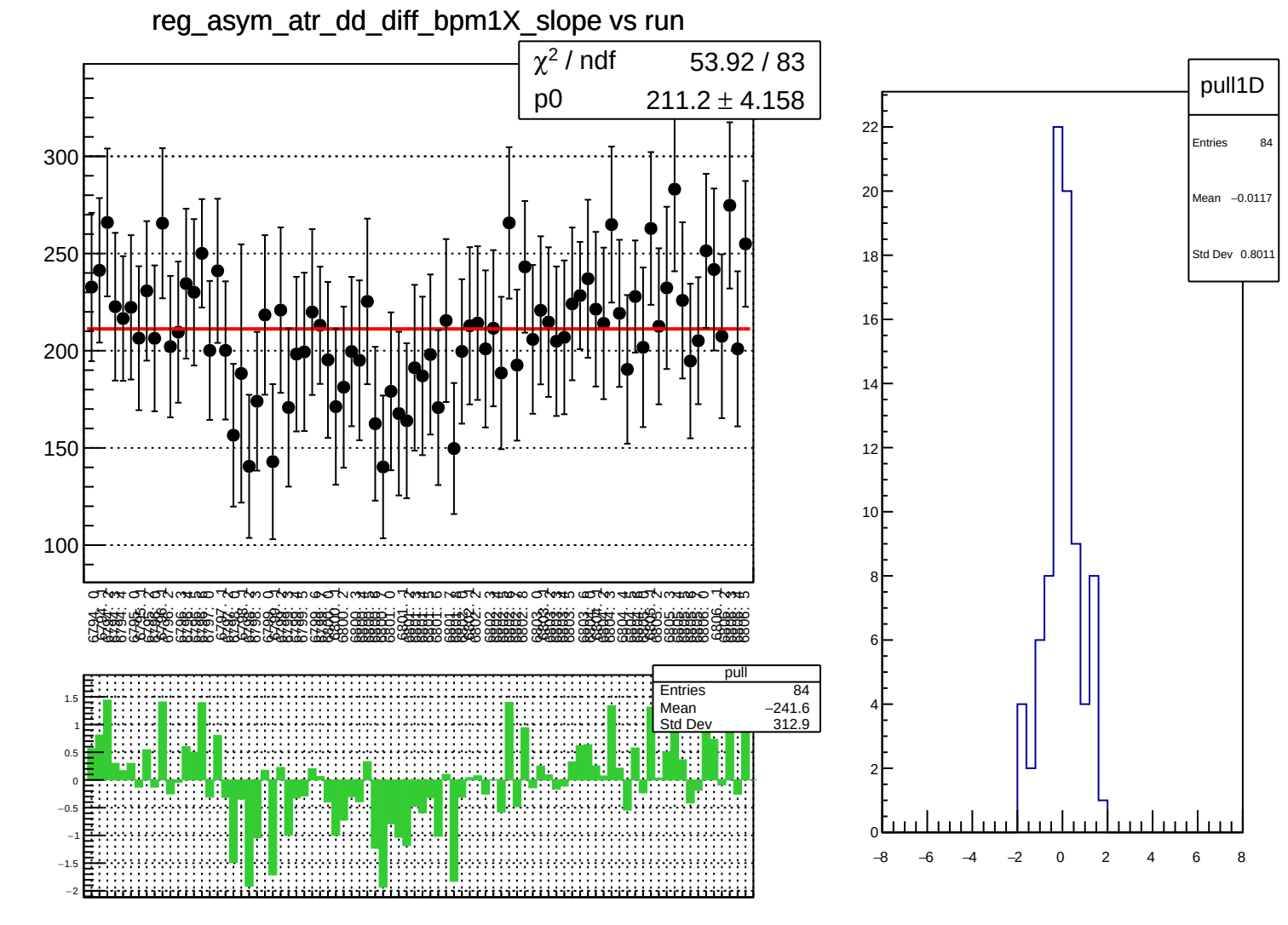

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.27 / 83
p0 270.2 ± 4.154
350
300
250
200
150
pull
Entries 84
Mean −114.5
Std Dev 194
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean −0.0162
Std Dev 0.7175
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

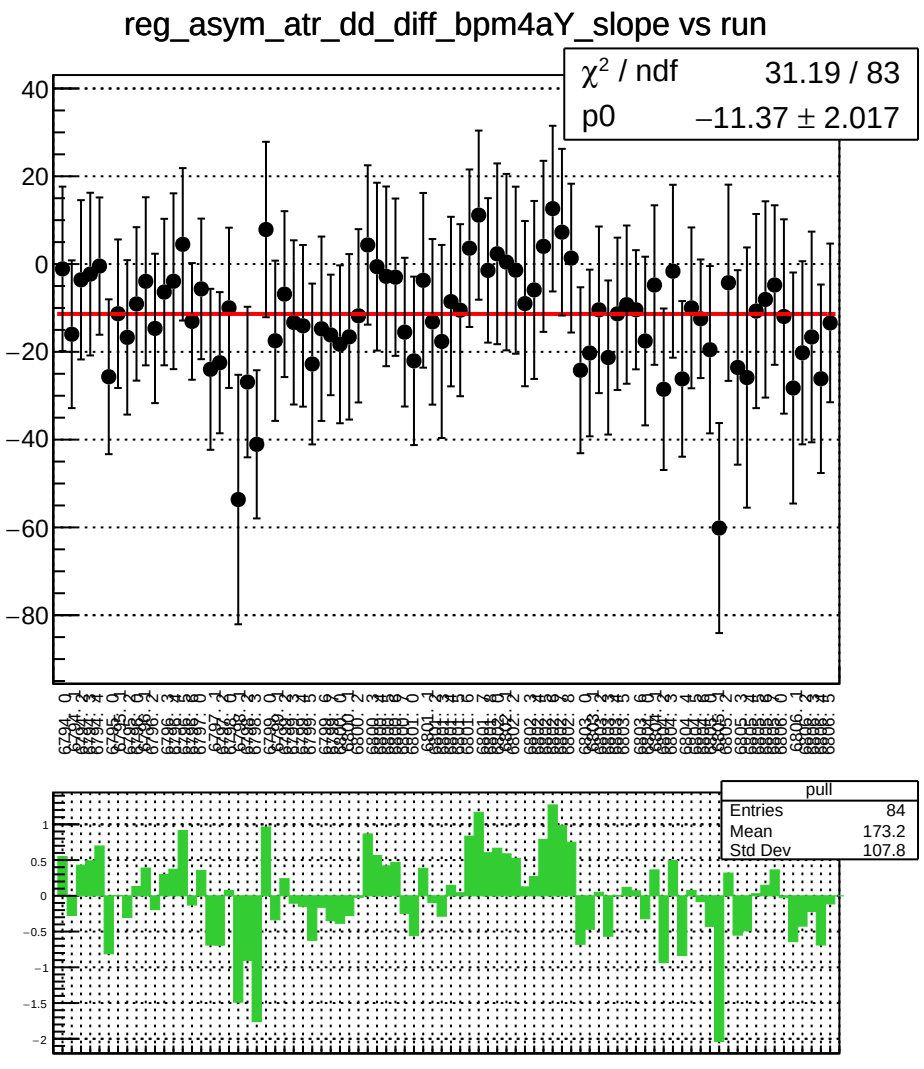

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.79 / 83
p0 18.35 ± 3.007
pull
Entries 84
Mean −3.292e+04
Std Dev 3.296e+04

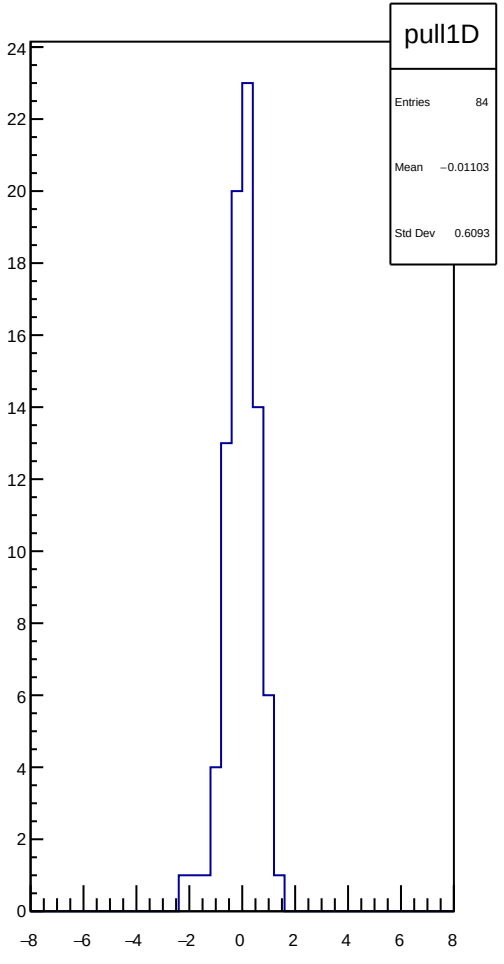

pull1D
Entries 84
Mean 0.0001214
Std Dev 0.5541

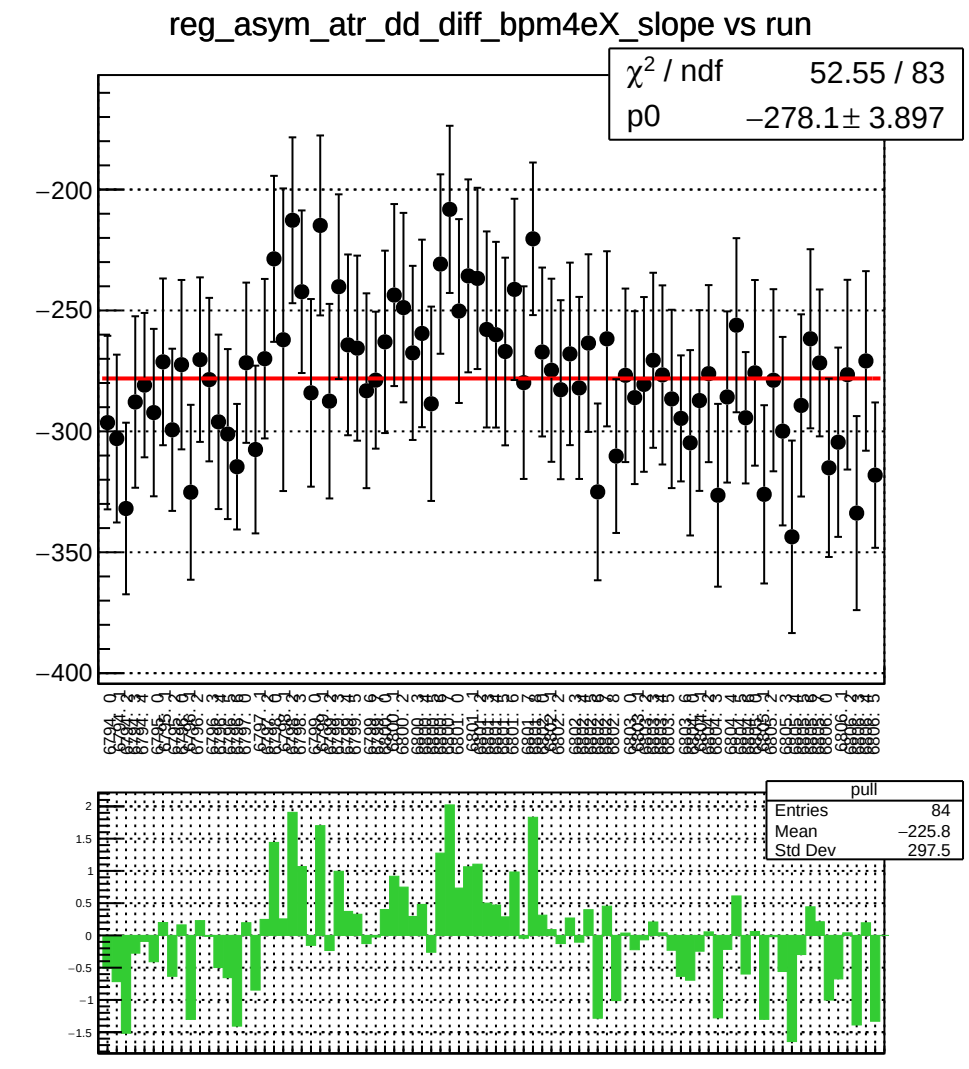

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 61.8 / 83
p0 −134.5 ± 0.1782
pull
Entries 84
Mean 362.8
Std Dev 316.3

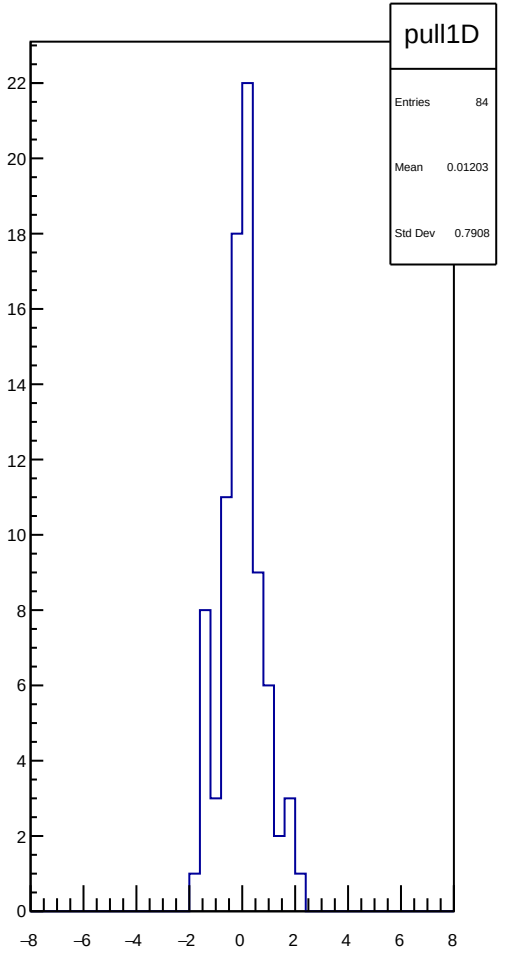

pull1D
Entries 84
Mean 0.007086
Std Dev 0.8577

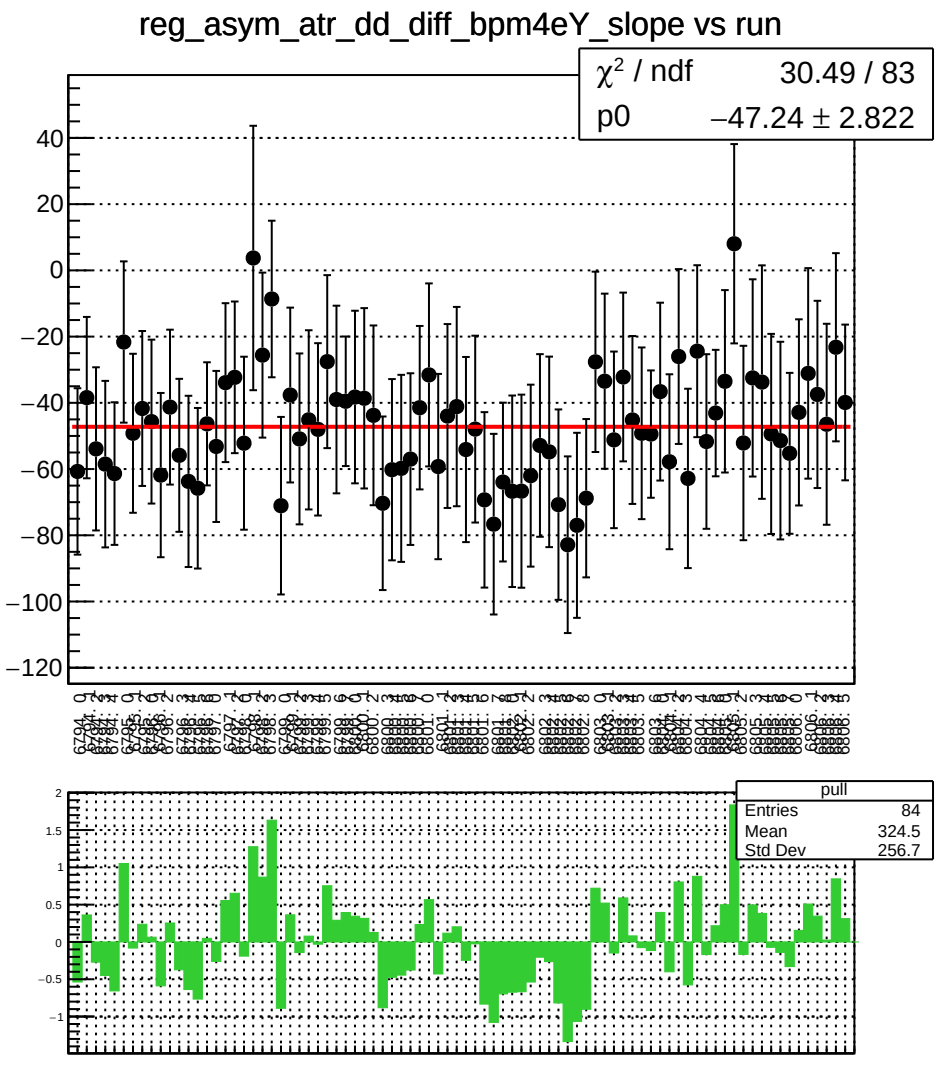

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 53.92 / 83
p0 211.2 ± 4.158
300
250
200
150
100
pull
Entries 84
Mean −241.6
Std Dev 312.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.0117
Std Dev 0.8011
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

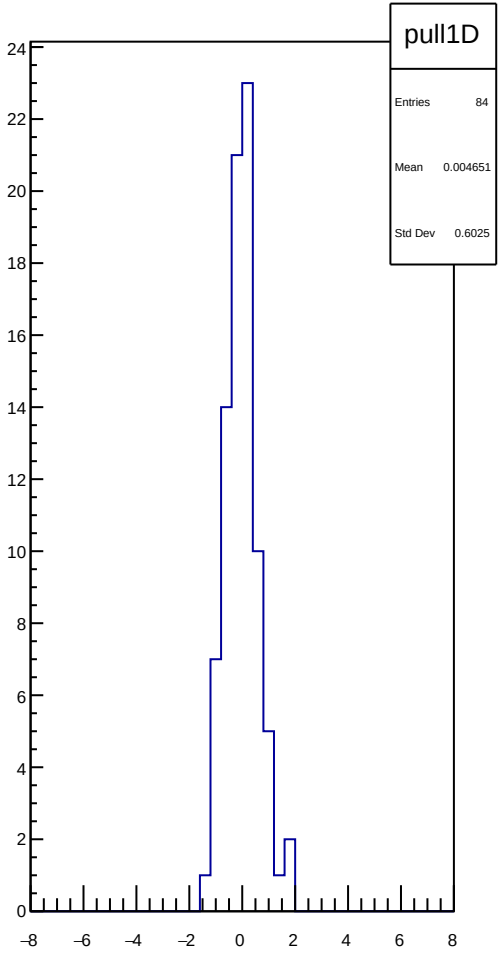

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.19 / 83
p0 −11.37 ± 2.017
pull
Entries 84
Mean 173.2
Std Dev 107.8

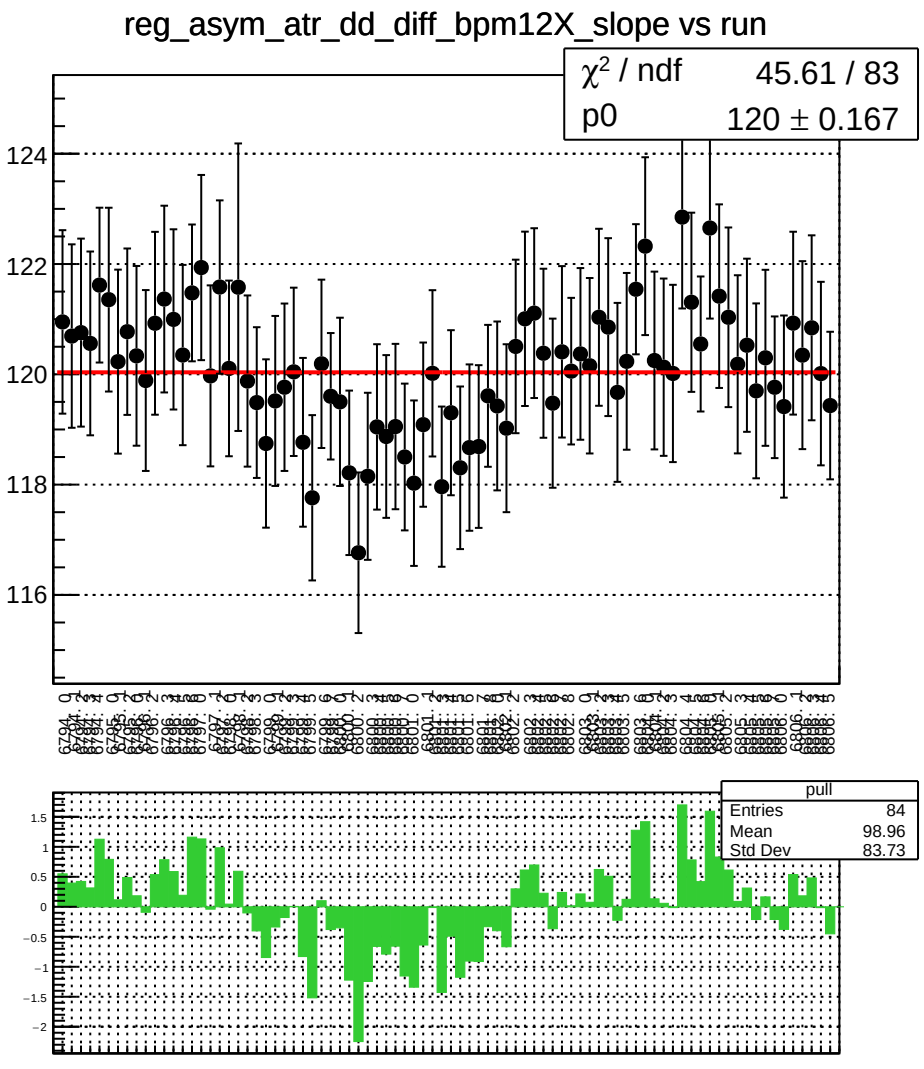

pull1D
Entries 84
Mean −0.01103
Std Dev 0.6093

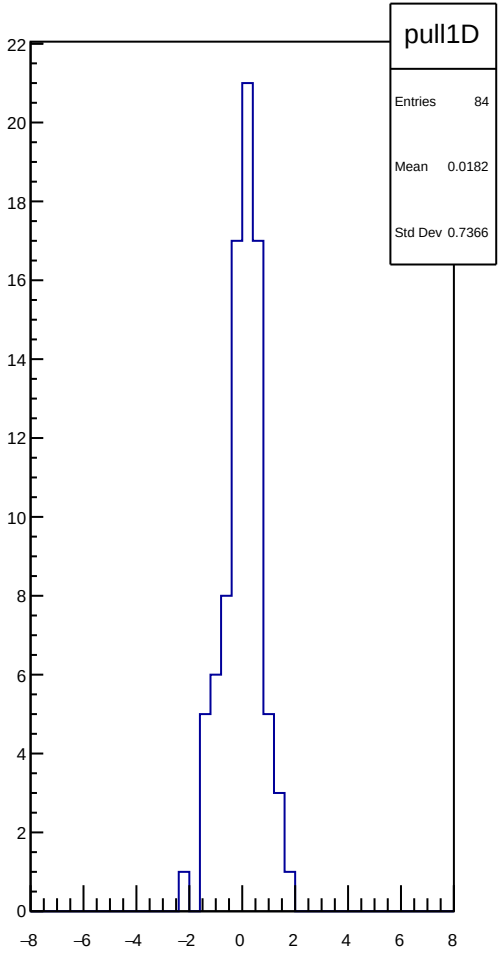

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.55 / 83
p0 −278.1± 3.897
pull
Entries 84
Mean −225.8
Std Dev 297.5

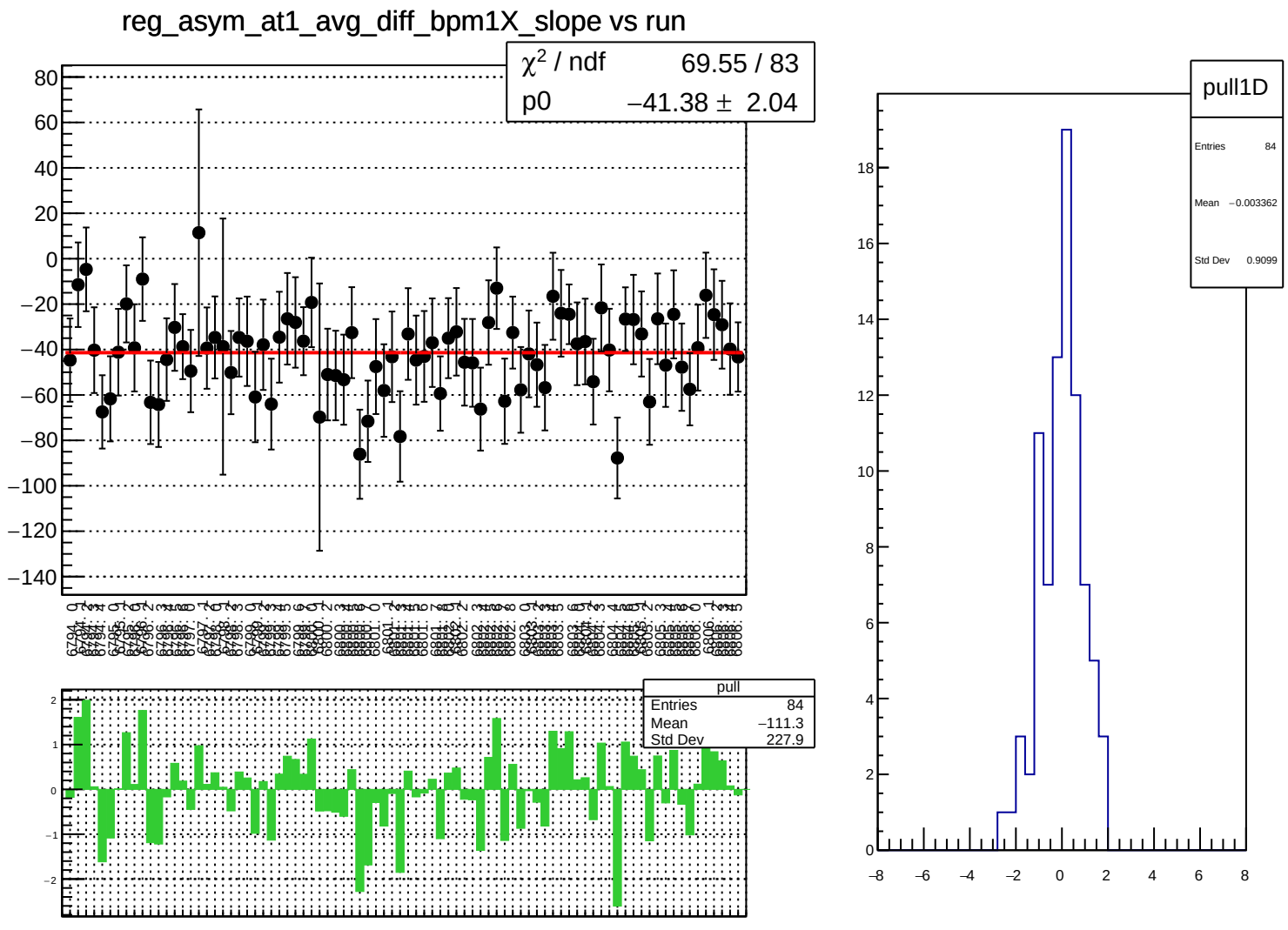

pull1D
Entries 84
Mean 0.01203
Std Dev 0.7908

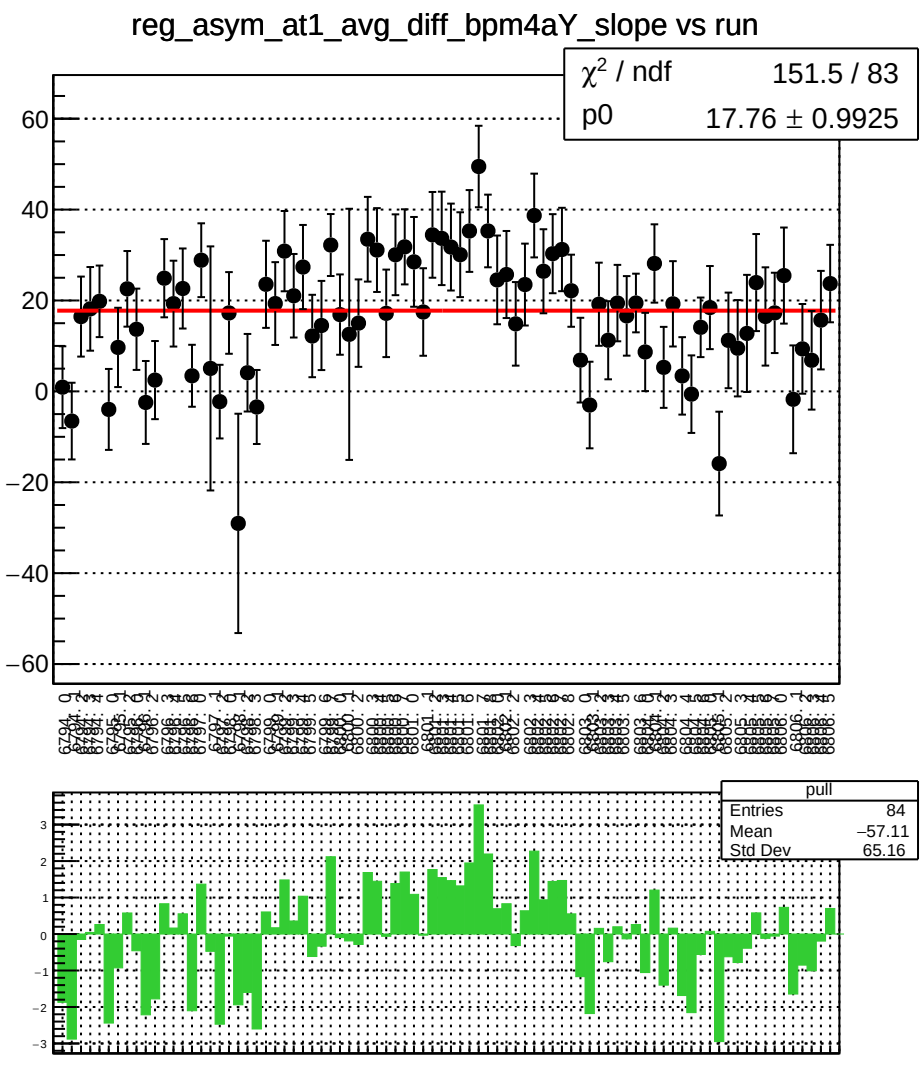

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.49 / 83
p0 −47.24 ± 2.822
pull
Entries 84
Mean 324.5
Std Dev 256.7

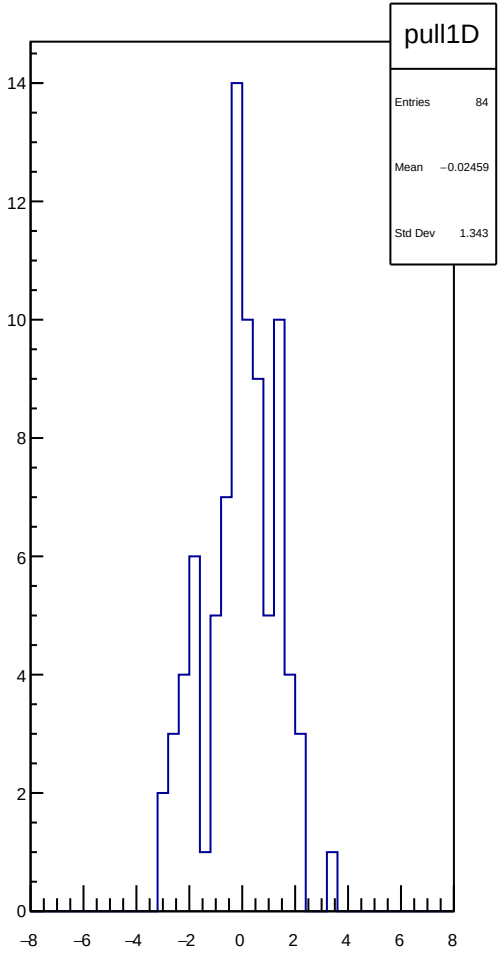

pull1D
Entries 84
Mean 0.004651
Std Dev 0.6025

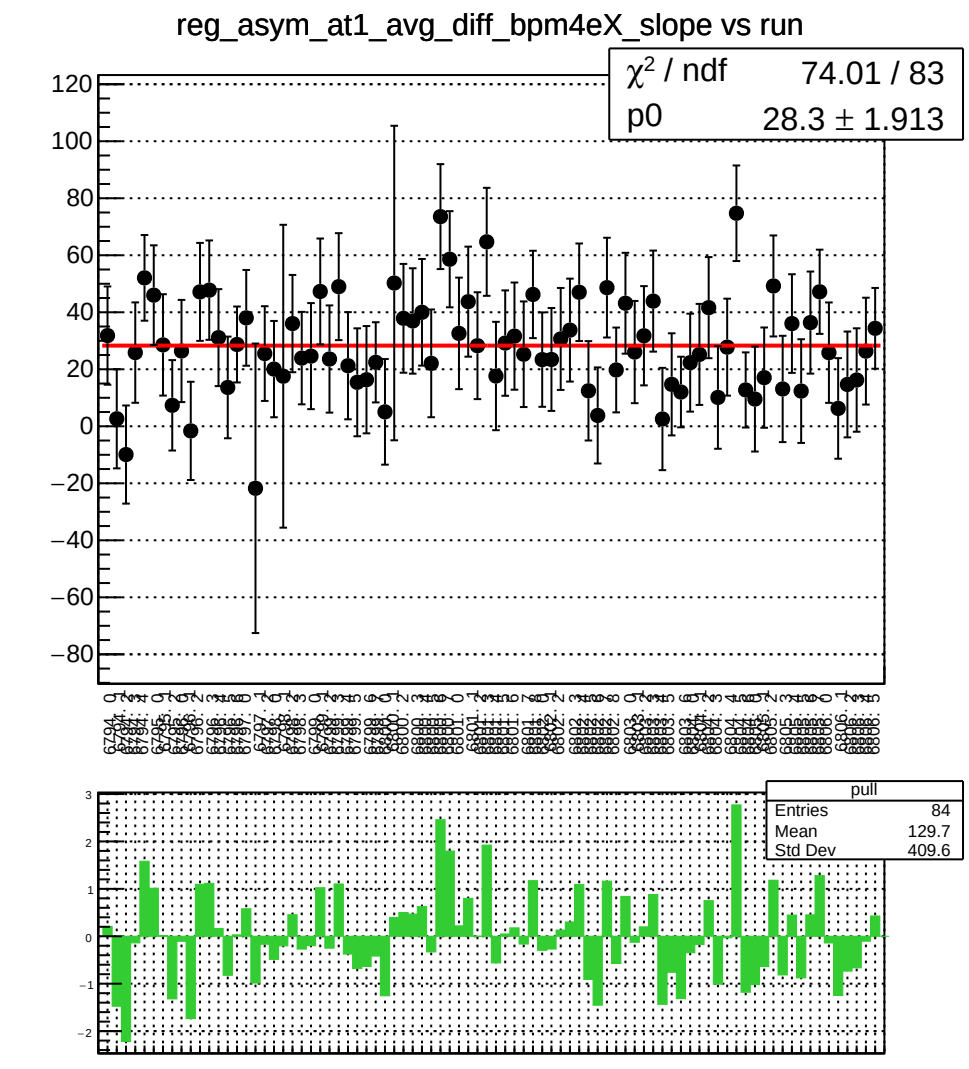

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 45.61 / 83
p0 120 ± 0.167
124
122
120
118
116
pull
Entries 84
Mean 98.96
Std Dev 83.73
1.5
1
0.5
0
−0.5
−1
−1.5
−2

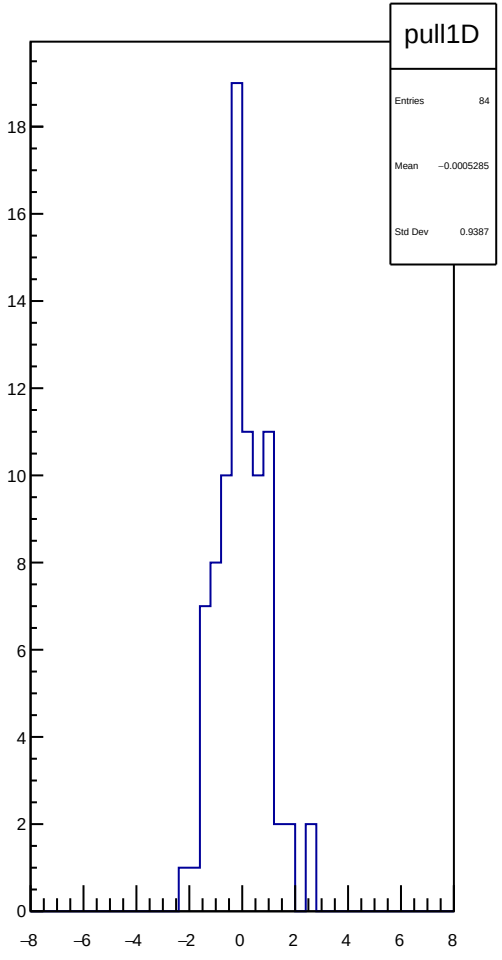

pull1D
Entries 84
Mean 0.0182
Std Dev 0.7366
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

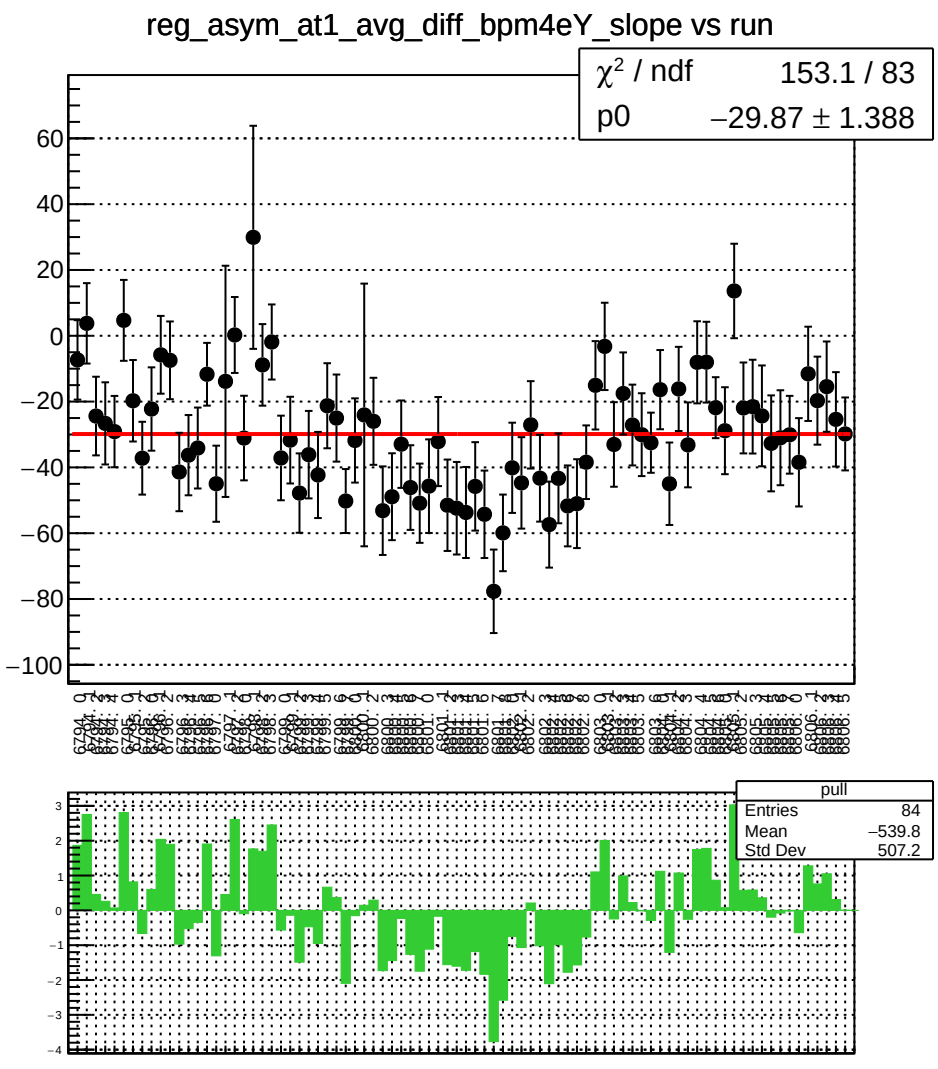

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 69.55 / 83
p0 −41.38 ± 2.04
pull
Entries 84
Mean −111.3
Std Dev 227.9
pull1D
Entries 84
Mean −0.003362
Std Dev 0.9099

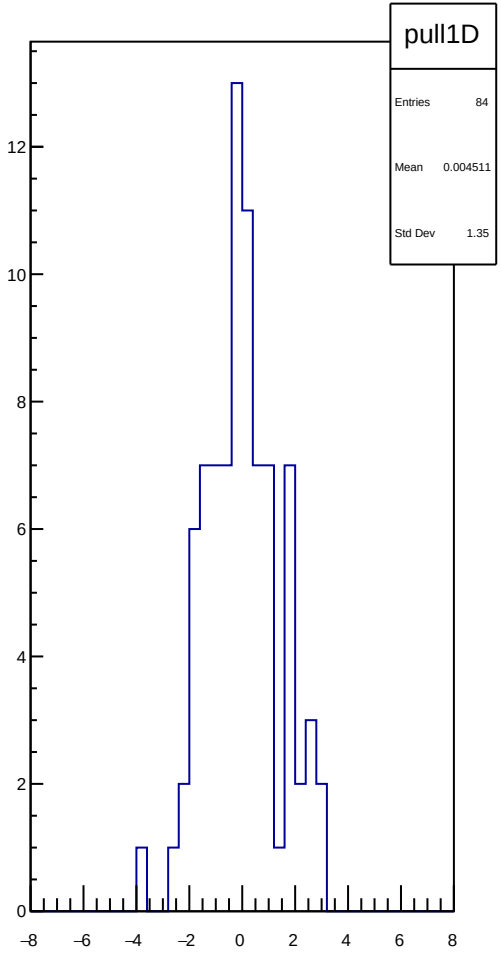

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 151.5 / 83
p0 17.76 ± 0.9925
pull
Entries 84
Mean −57.11
Std Dev 65.16

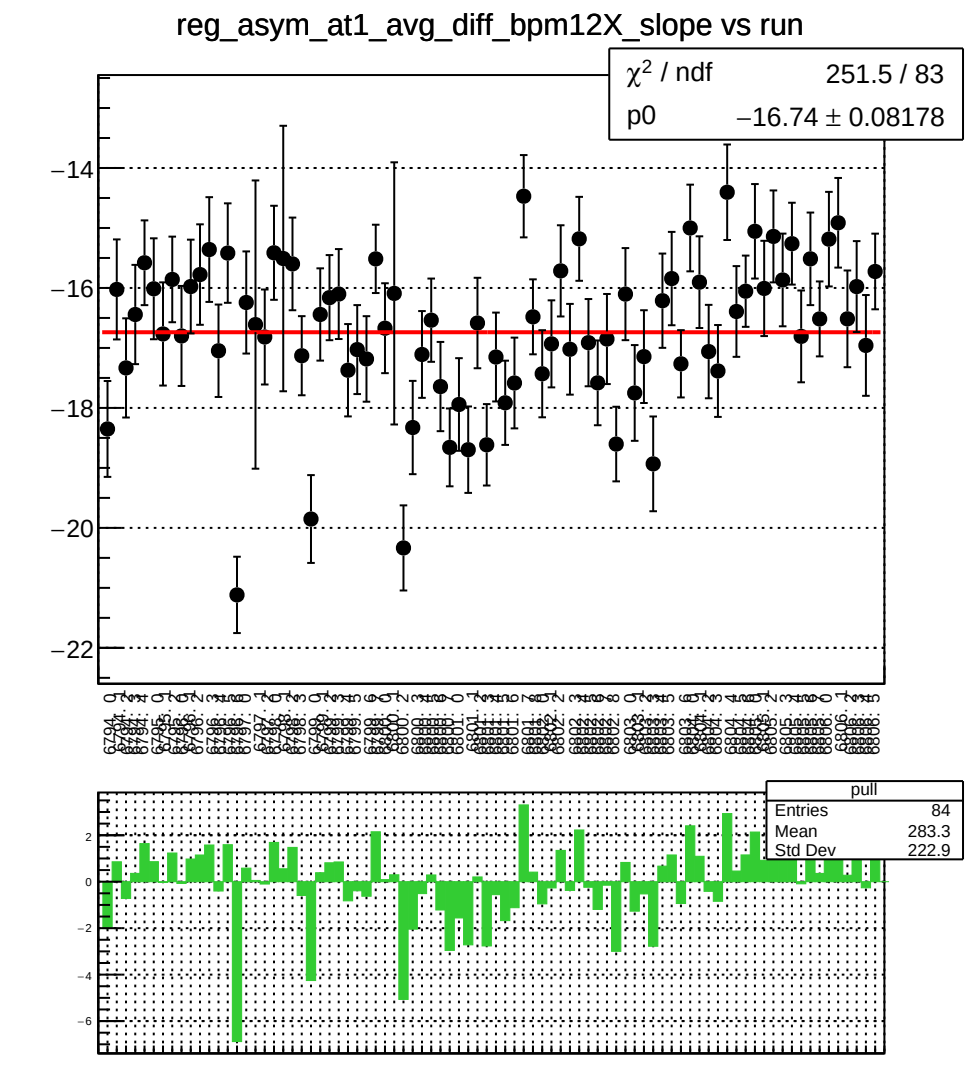

pull1D
Entries 84
Mean −0.02459
Std Dev 1.343

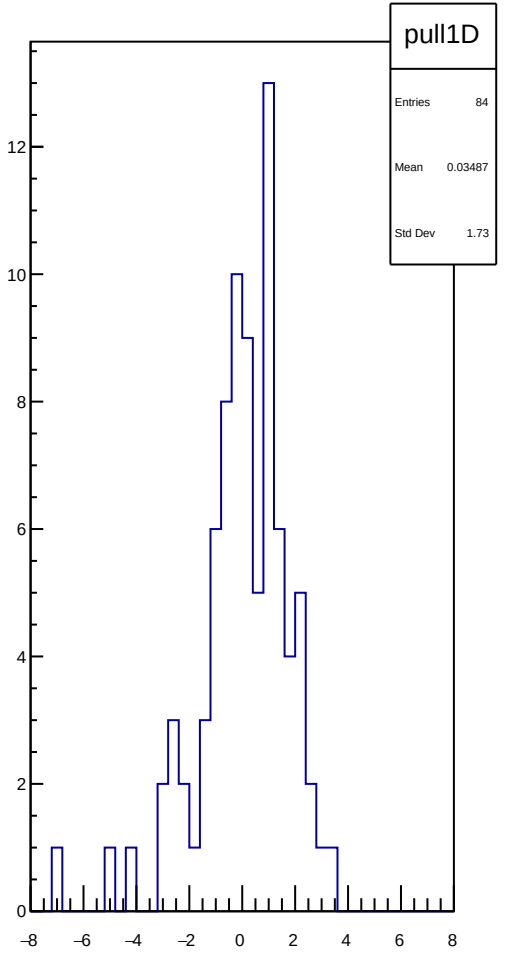

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 74.01 / 83
p0 28.3 ± 1.913
pull
Entries 84
Mean 129.7
Std Dev 409.6

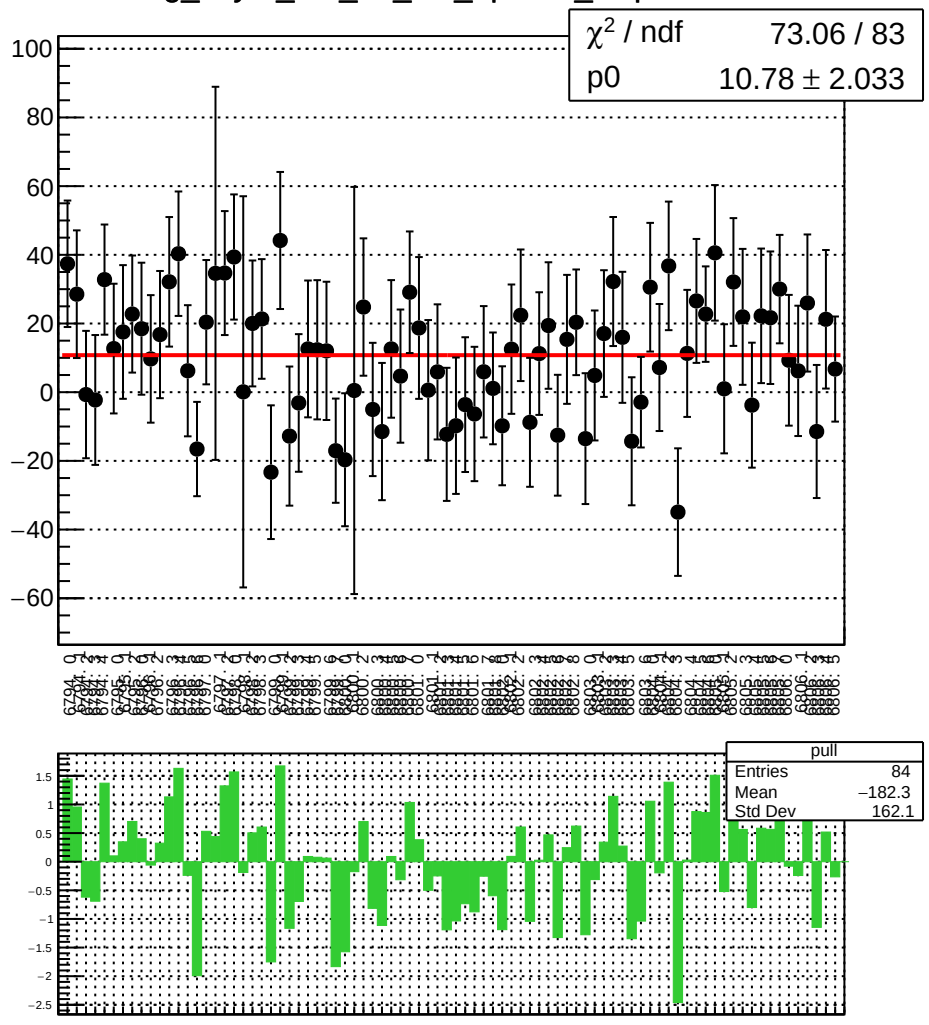

pull1D
Entries 84
Mean −0.0005285
Std Dev 0.9387

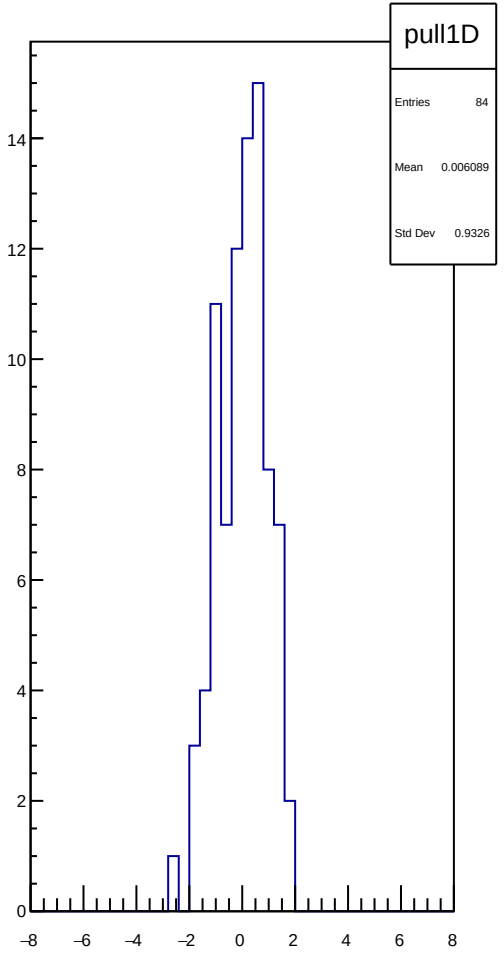

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 153.1 / 83
p0 −29.87 ± 1.388
pull
Entries 84
Mean −539.8
Std Dev 507.2

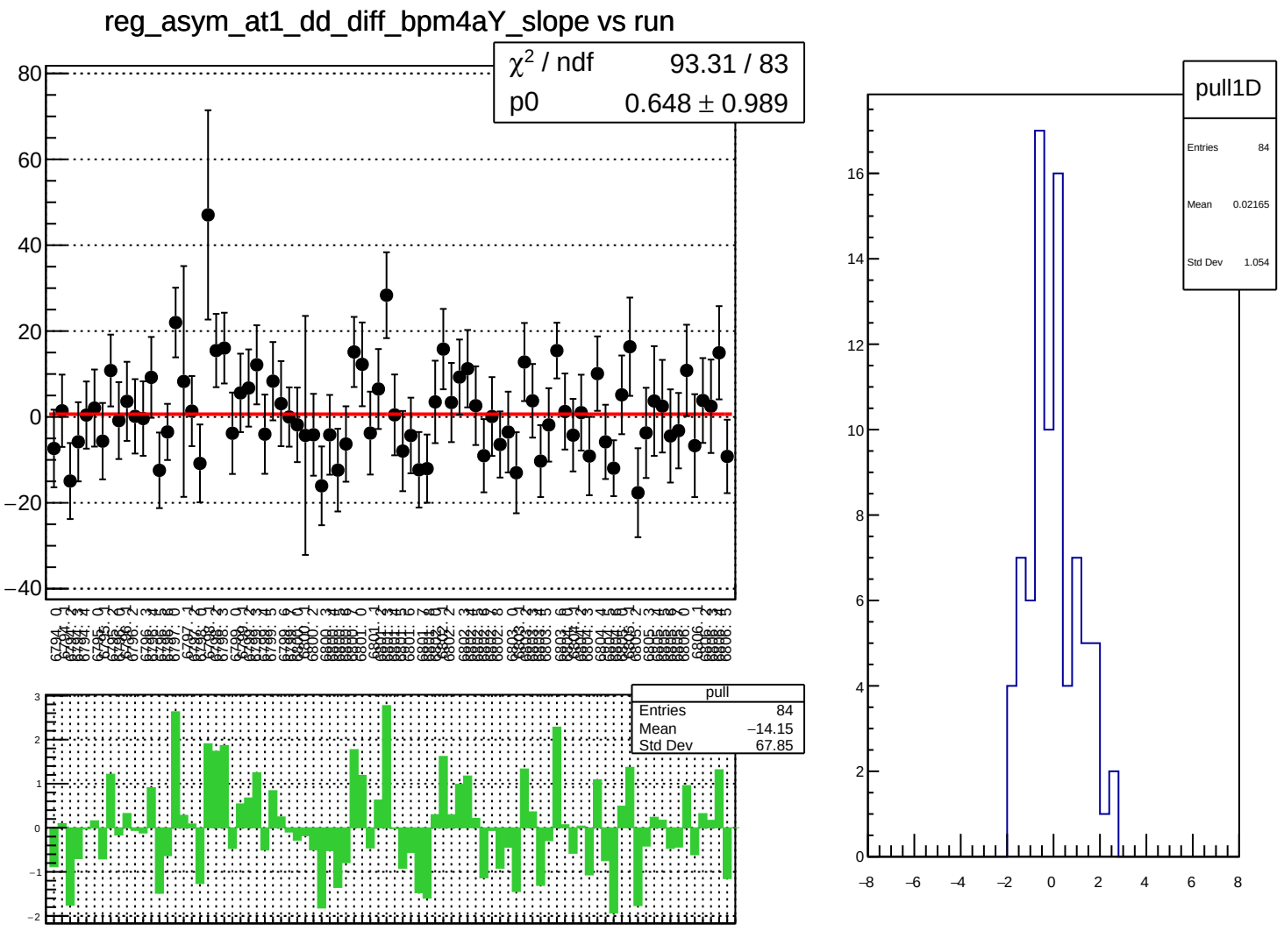

pull1D
Entries 84
Mean 0.004511
Std Dev 1.35

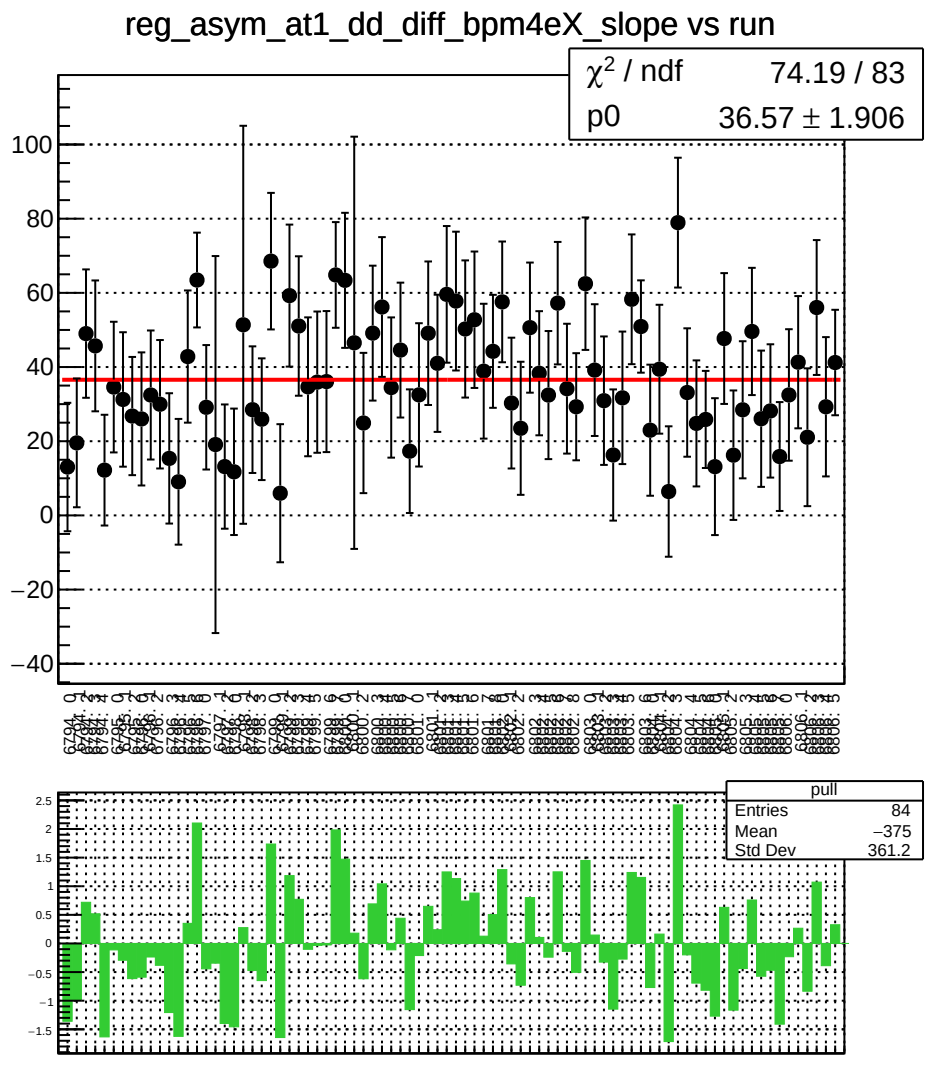

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 251.5 / 83
p0 −16.74 ± 0.08178
−14
−16
−18
−20
−22
pull
Entries 84
Mean 283.3
Std Dev 222.9
2
0
−2
−4
−6

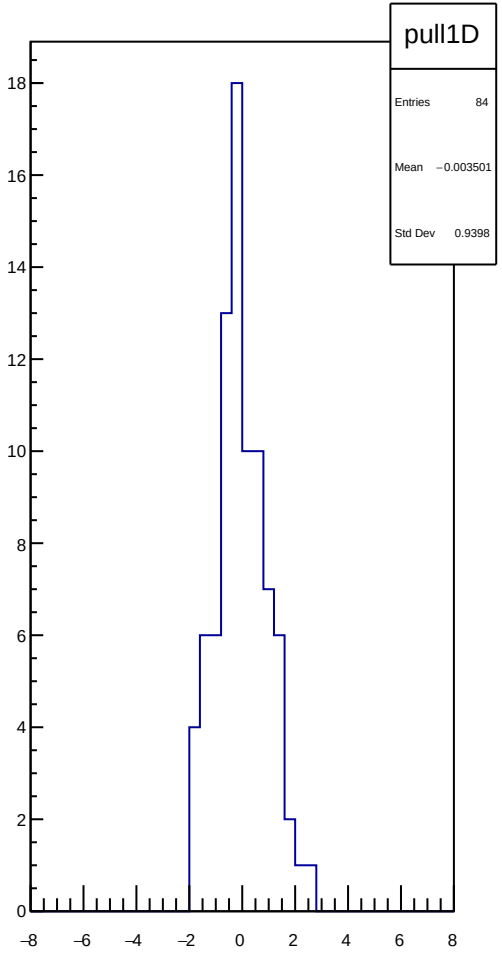

pull1D
Entries 84
Mean 0.03487
Std Dev 1.73
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

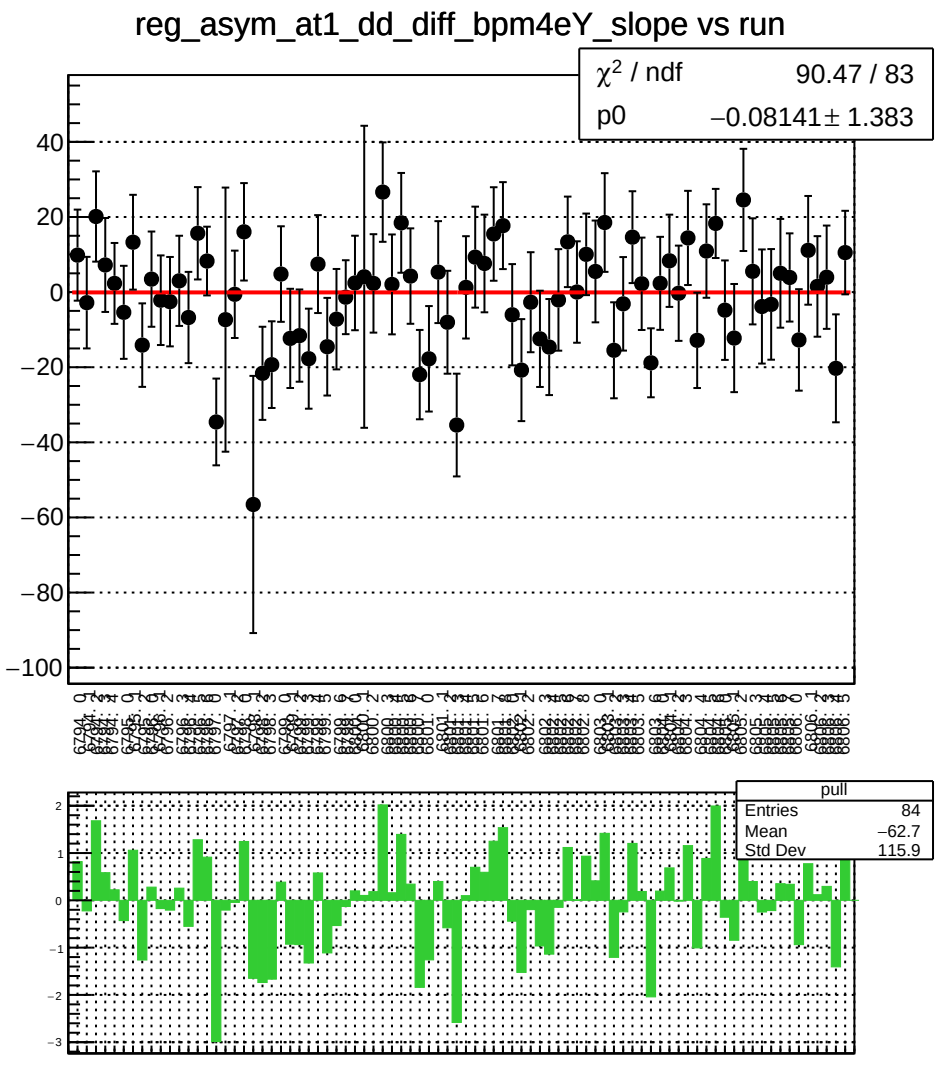

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 73.06 / 83
p0 10.78 ± 2.033
pull
Entries 84
Mean −182.3
Std Dev 162.1

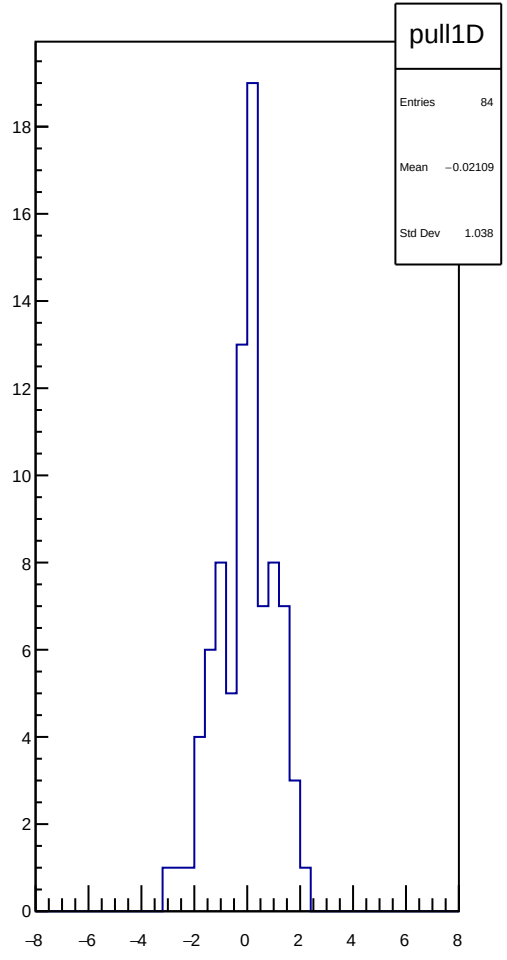

pull1D
Entries 84
Mean 0.006089
Std Dev 0.9326

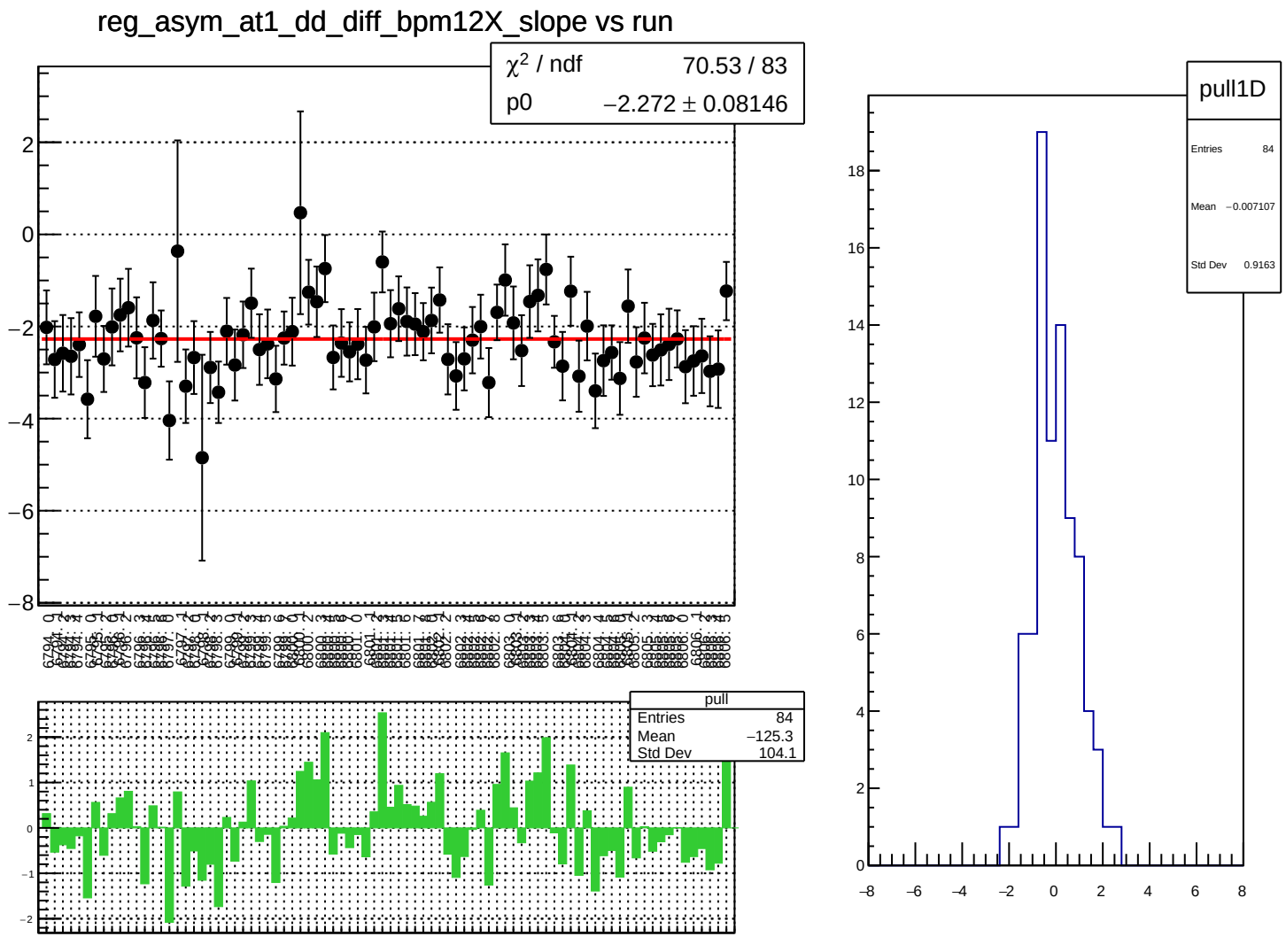

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 93.31 / 83
p0 0.648 ± 0.989
pull
Entries 84
Mean −14.15
Std Dev 67.85
pull1D
Entries 84
Mean 0.02165
Std Dev 1.054

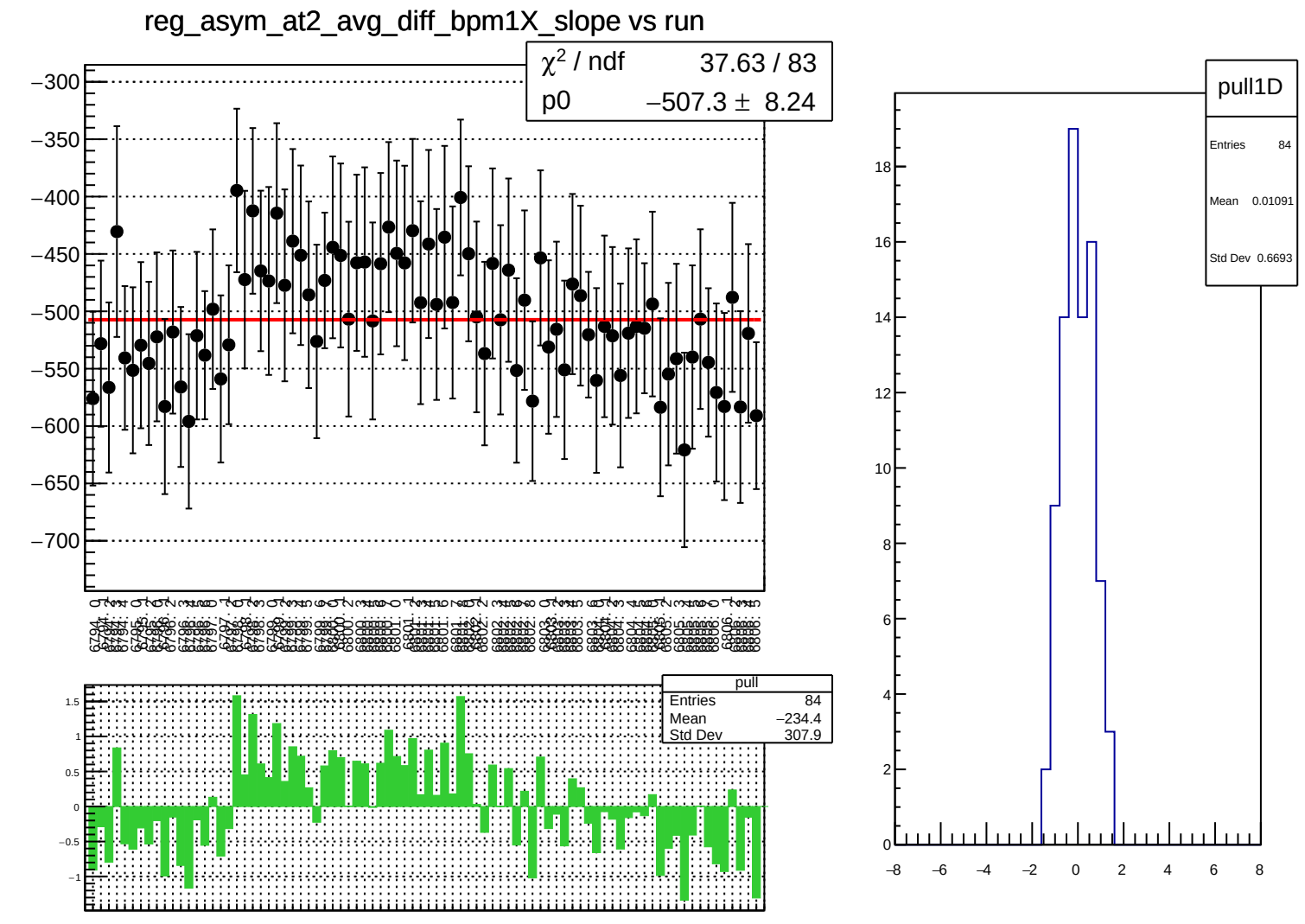

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.19 / 83
p0 36.57 ± 1.906
pull
Entries 84
Mean −375
Std Dev 361.2

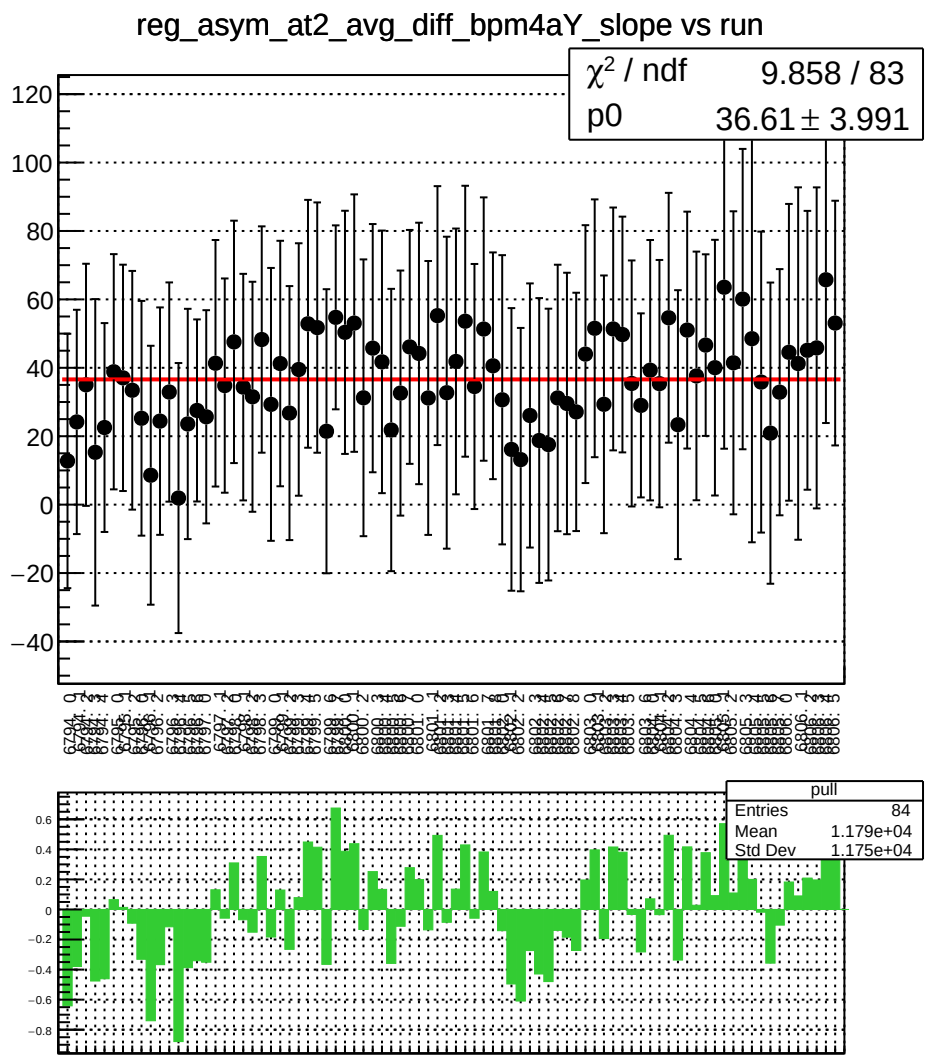

pull1D
Entries 84
Mean −0.003501
Std Dev 0.9398

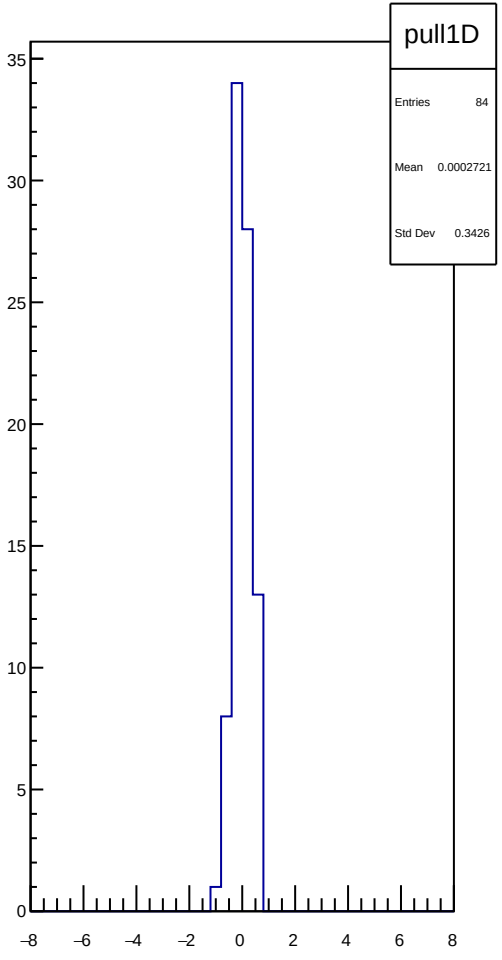

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 90.47 / 83
p0 −0.08141 ± 1.383
pull
Entries 84
Mean −62.7
Std Dev 115.9

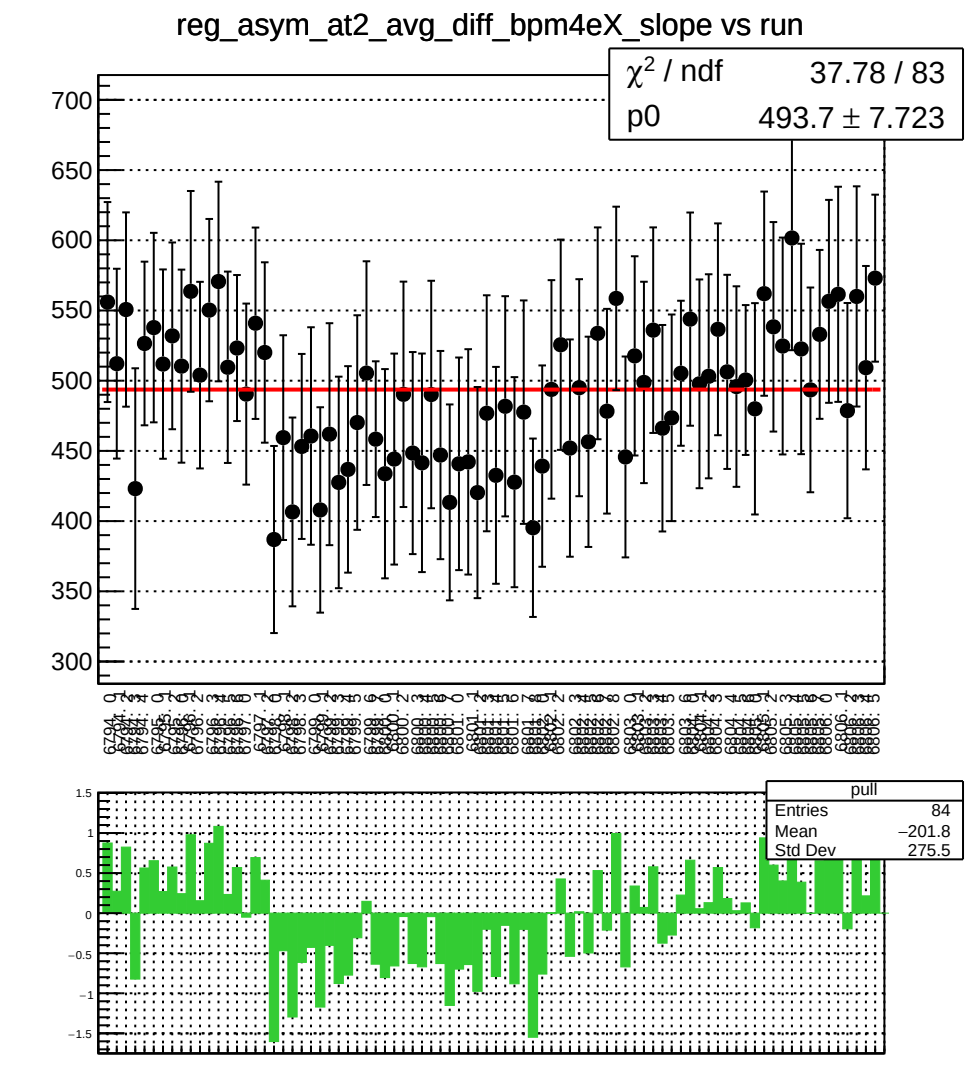

pull1D
Entries 84
Mean −0.02109
Std Dev 1.038

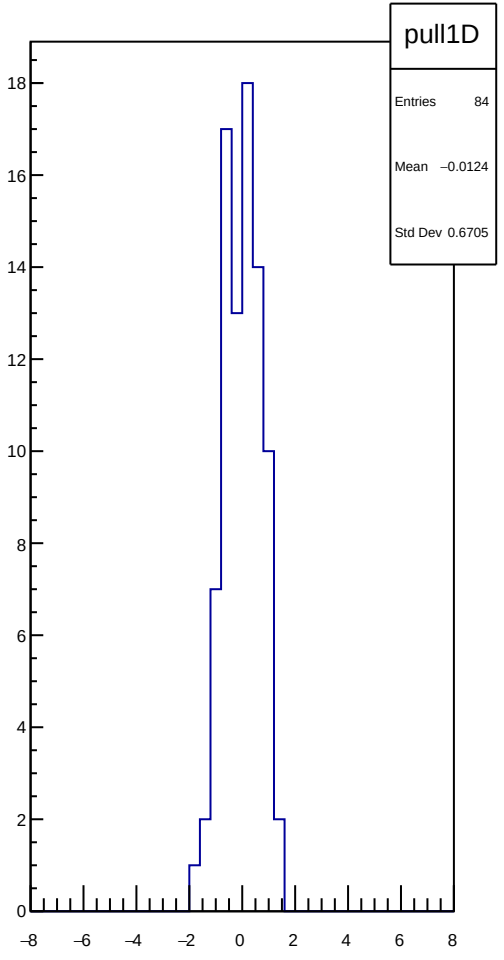

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 70.53 / 83
p0 −2.272 ± 0.08146
pull
Entries 84
Mean −125.3
Std Dev 104.1
pull1D
Entries 84
Mean −0.007107
Std Dev 0.9163

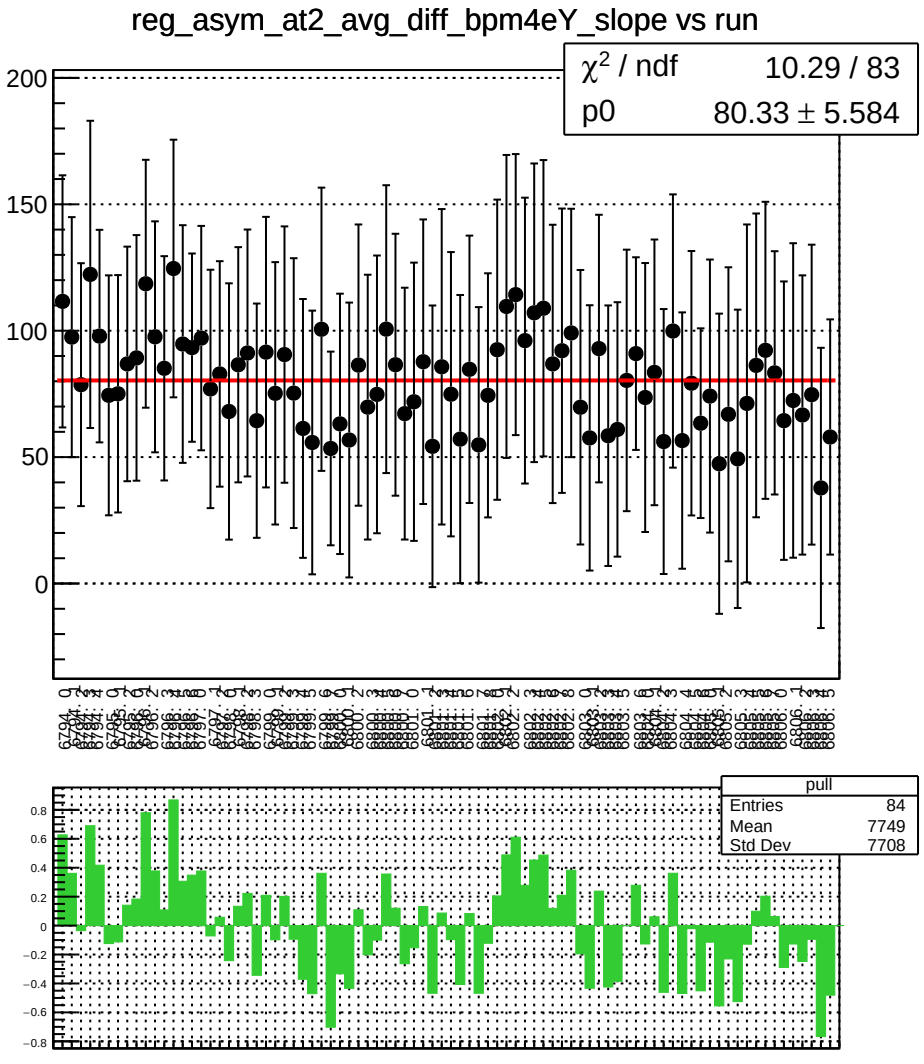

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 37.63 / 83
p0 −507.3 ± 8.24
pull
Entries 84
Mean −234.4
Std Dev 307.9
pull1D
Entries 84
Mean 0.01091
Std Dev 0.6693

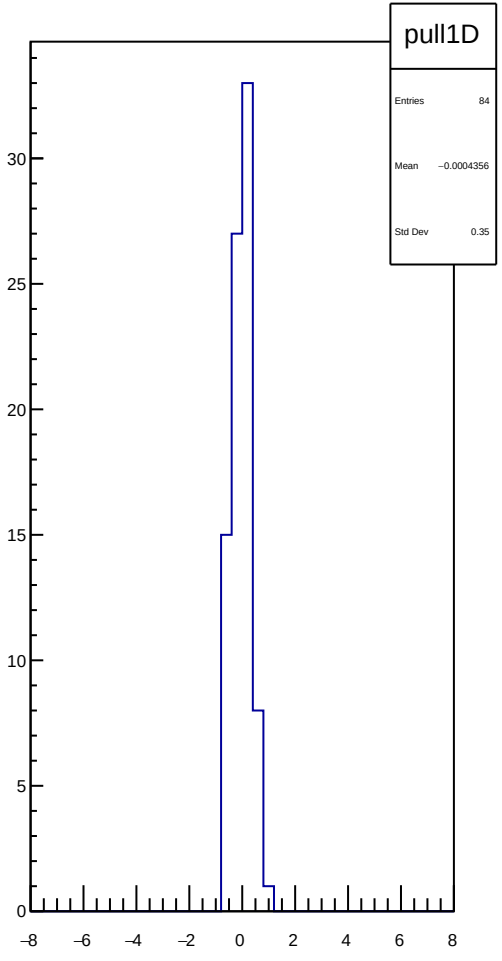

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.858 / 83
p0 36.61 ± 3.991
pull
Entries 84
Mean 1.179e+04
Std Dev 1.175e+04

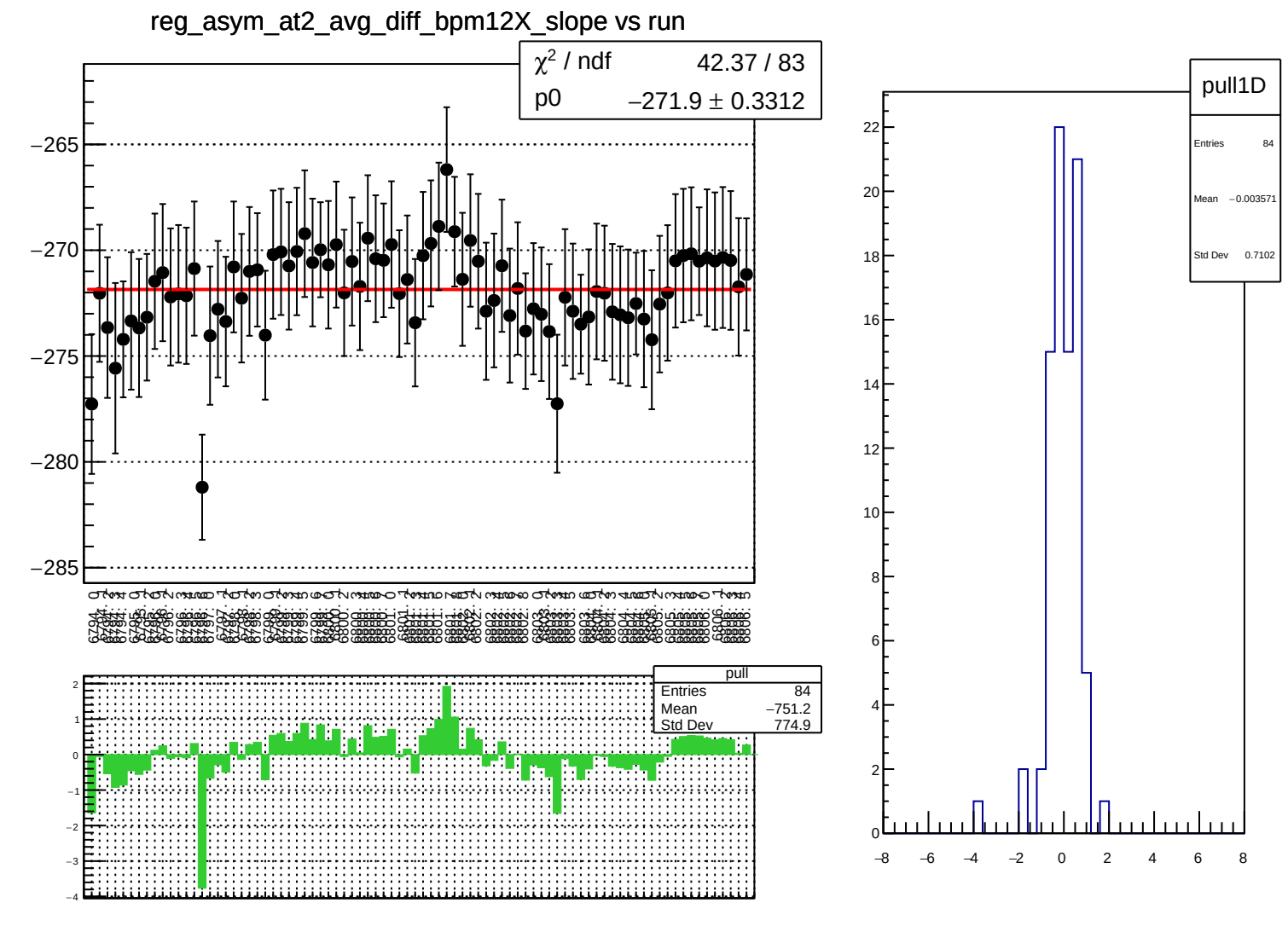

pull1D
Entries 84
Mean 0.0002721
Std Dev 0.3426

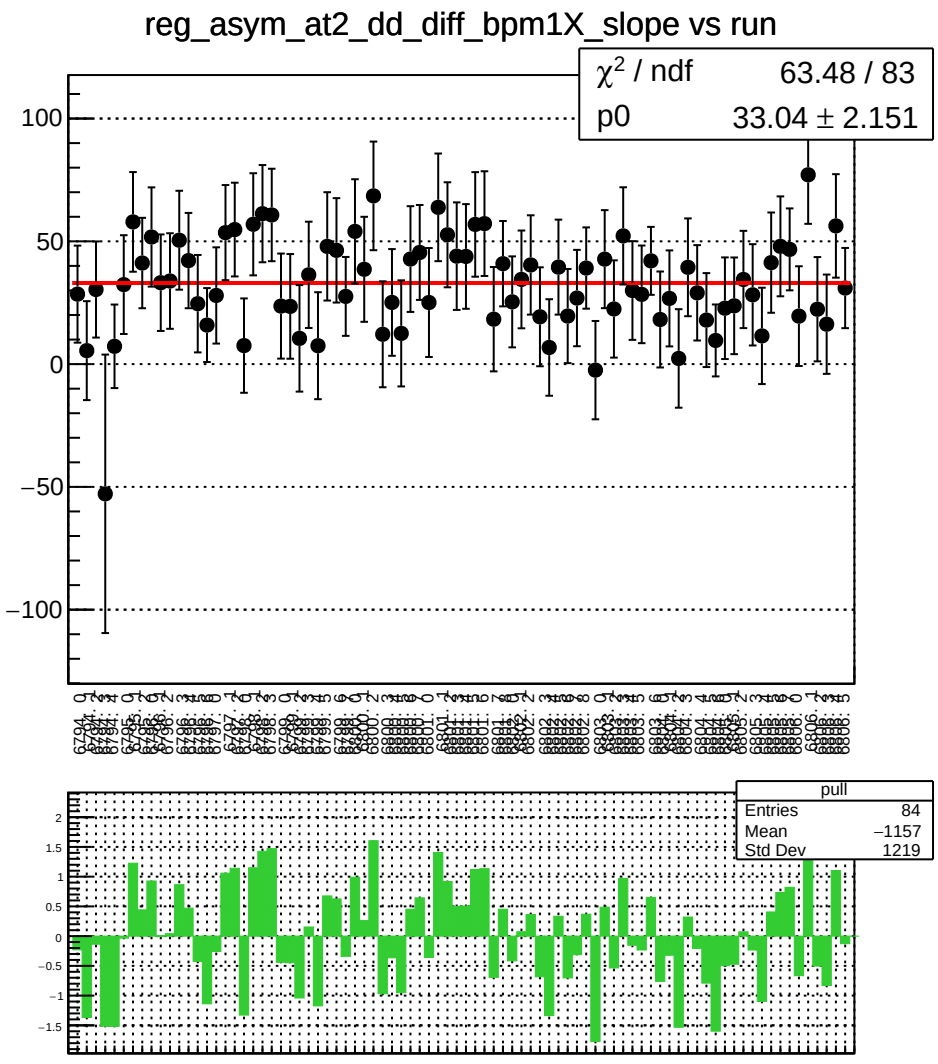

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.78 / 83
p0 493.7 ± 7.723
pull
Entries 84
Mean −201.8
Std Dev 275.5

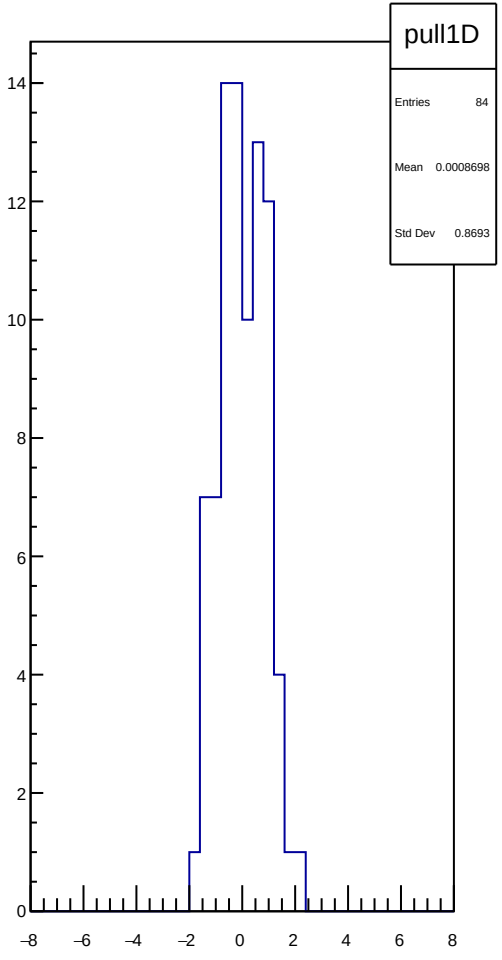

pull1D
Entries 84
Mean −0.0124
Std Dev 0.6705

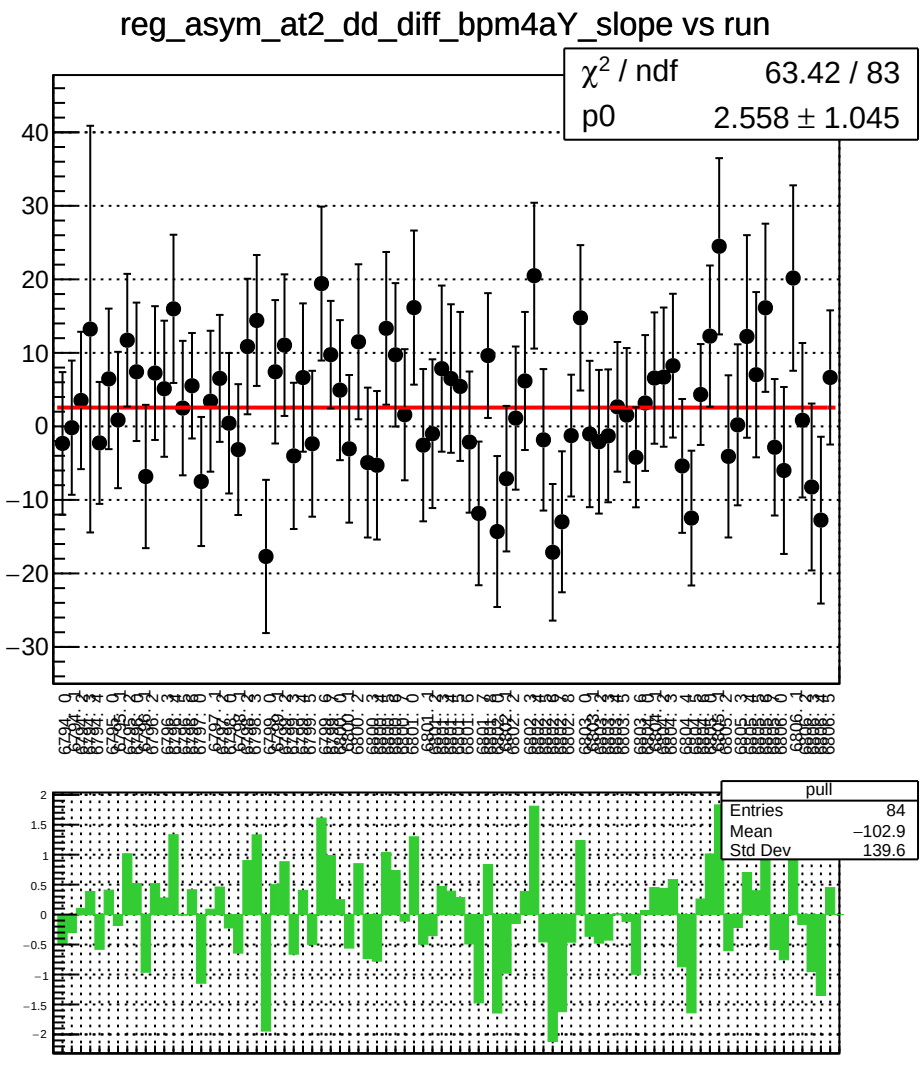

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.29 / 83
p0 80.33 ± 5.584
pull
Entries 84
Mean 7749
Std Dev 7708

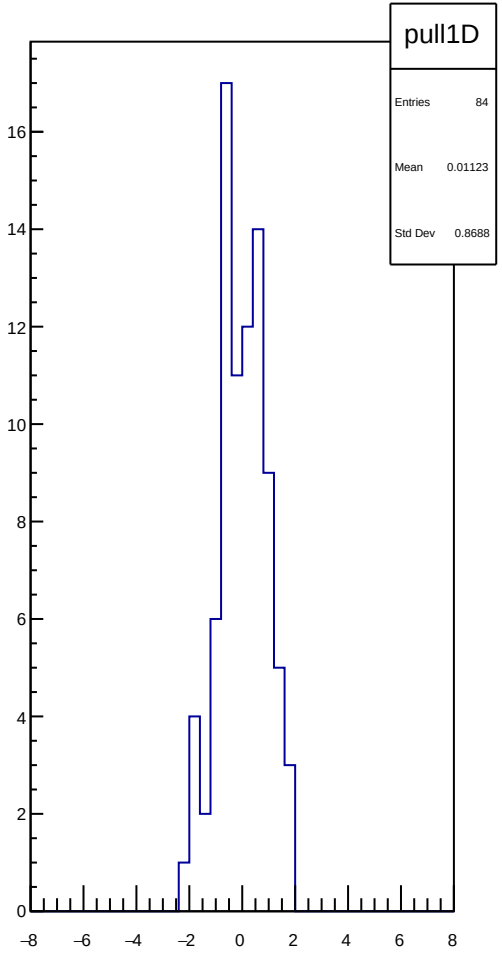

pull1D
Entries 84
Mean −0.0004356
Std Dev 0.35

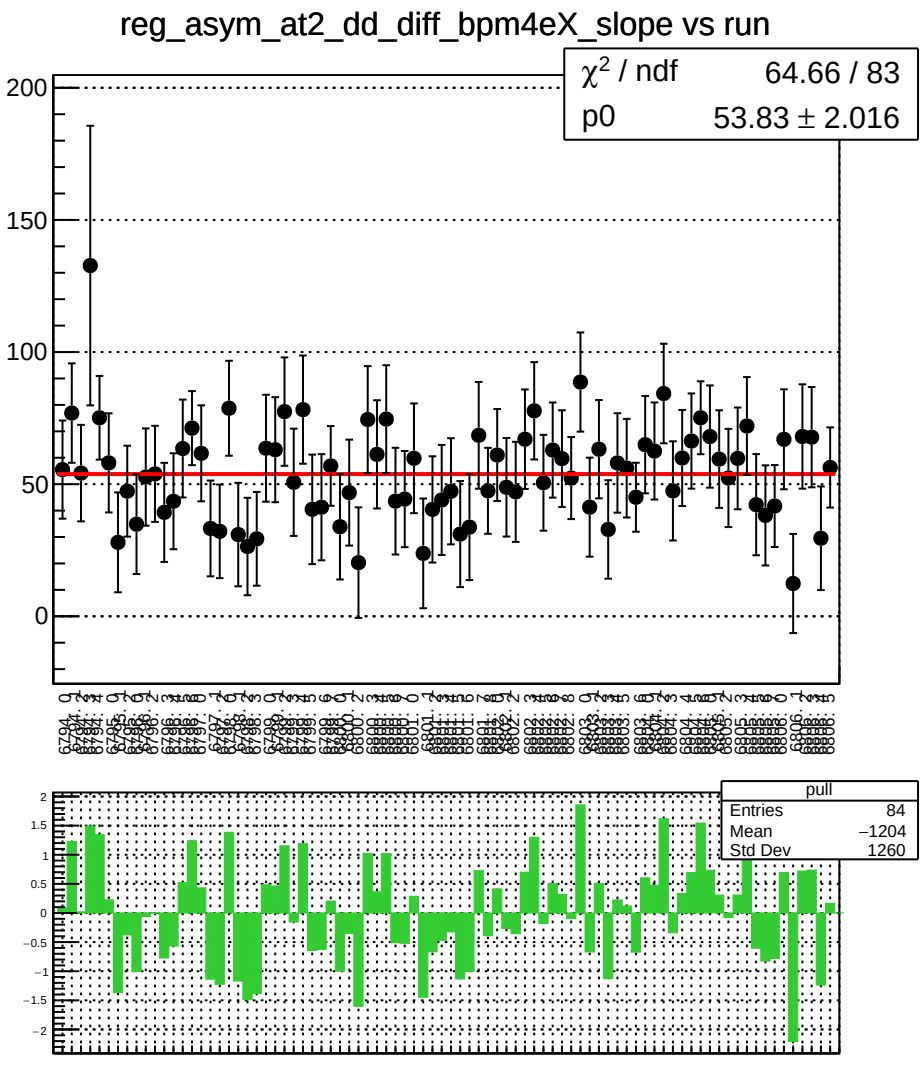

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 42.37 / 83
p0 −271.9 ± 0.3312
−265
−270
−275
−280
−285
pull
Entries 84
Mean −751.2
Std Dev 774.9
pull1D
Entries 84
Mean −0.003571
Std Dev 0.7102

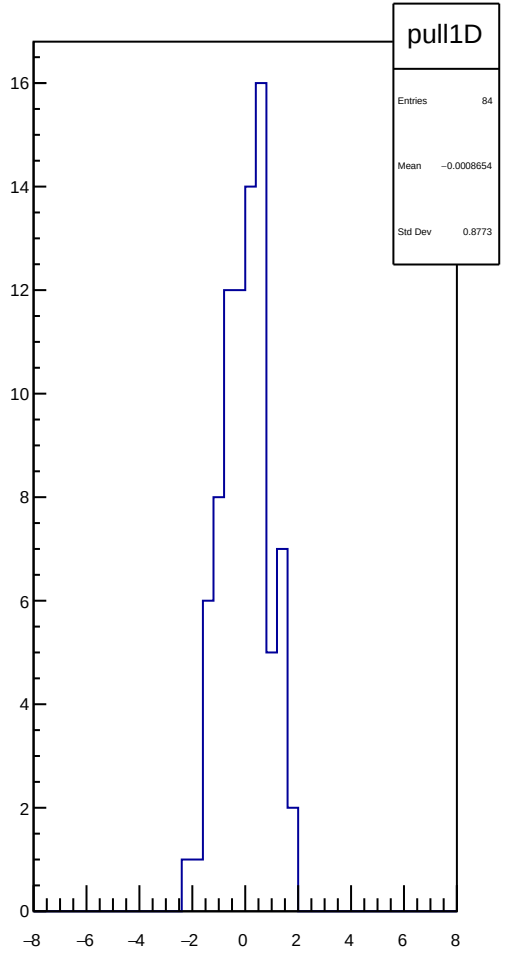

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 63.48 / 83
p0 33.04 ± 2.151
pull
Entries 84
Mean −1157
Std Dev 1219

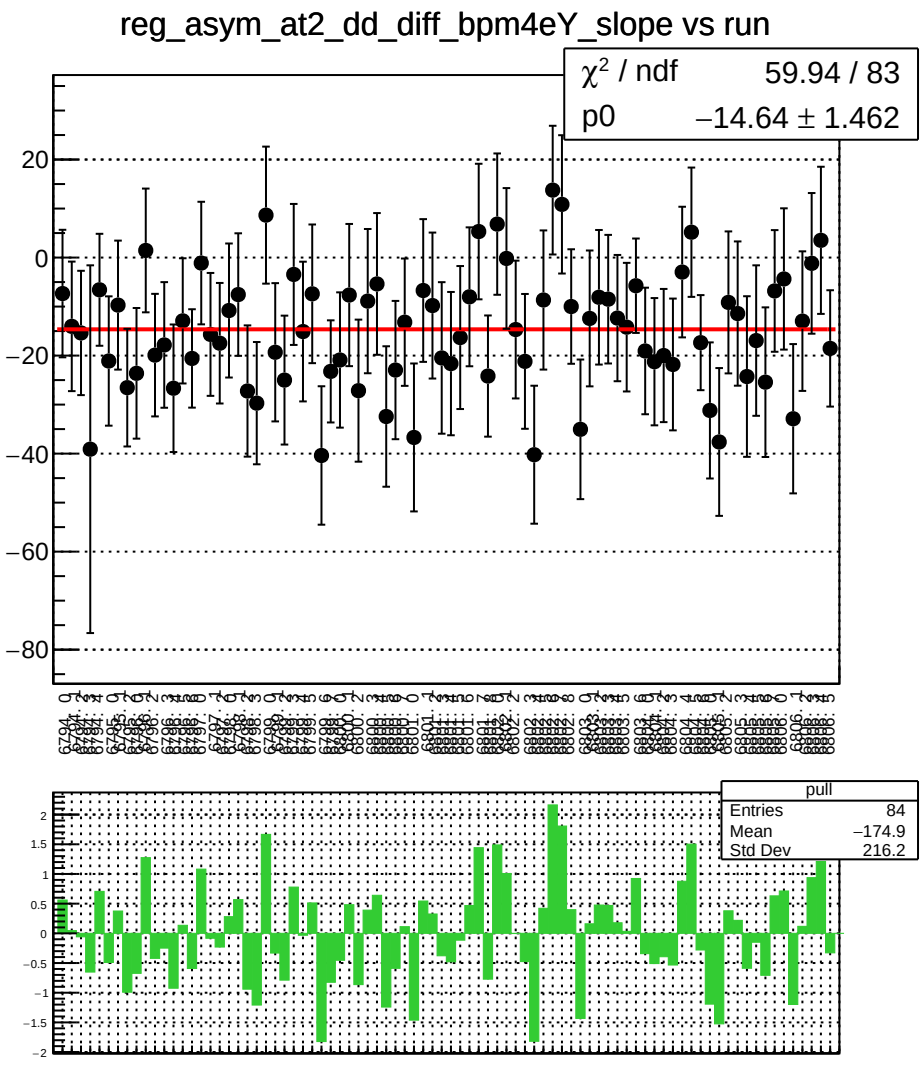

pull1D
Entries 84
Mean 0.0008698
Std Dev 0.8693

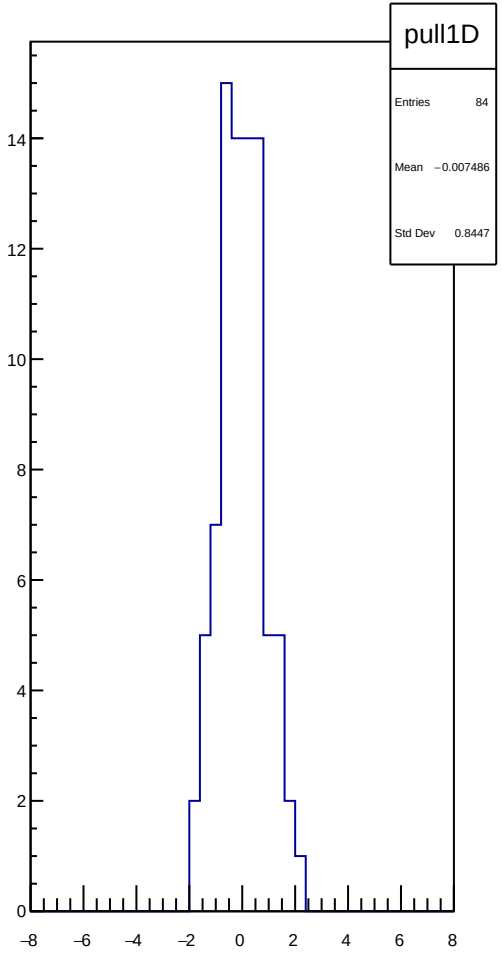

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.42 / 83
p0 2.558 ± 1.045
pull
Entries 84
Mean −102.9
Std Dev 139.6

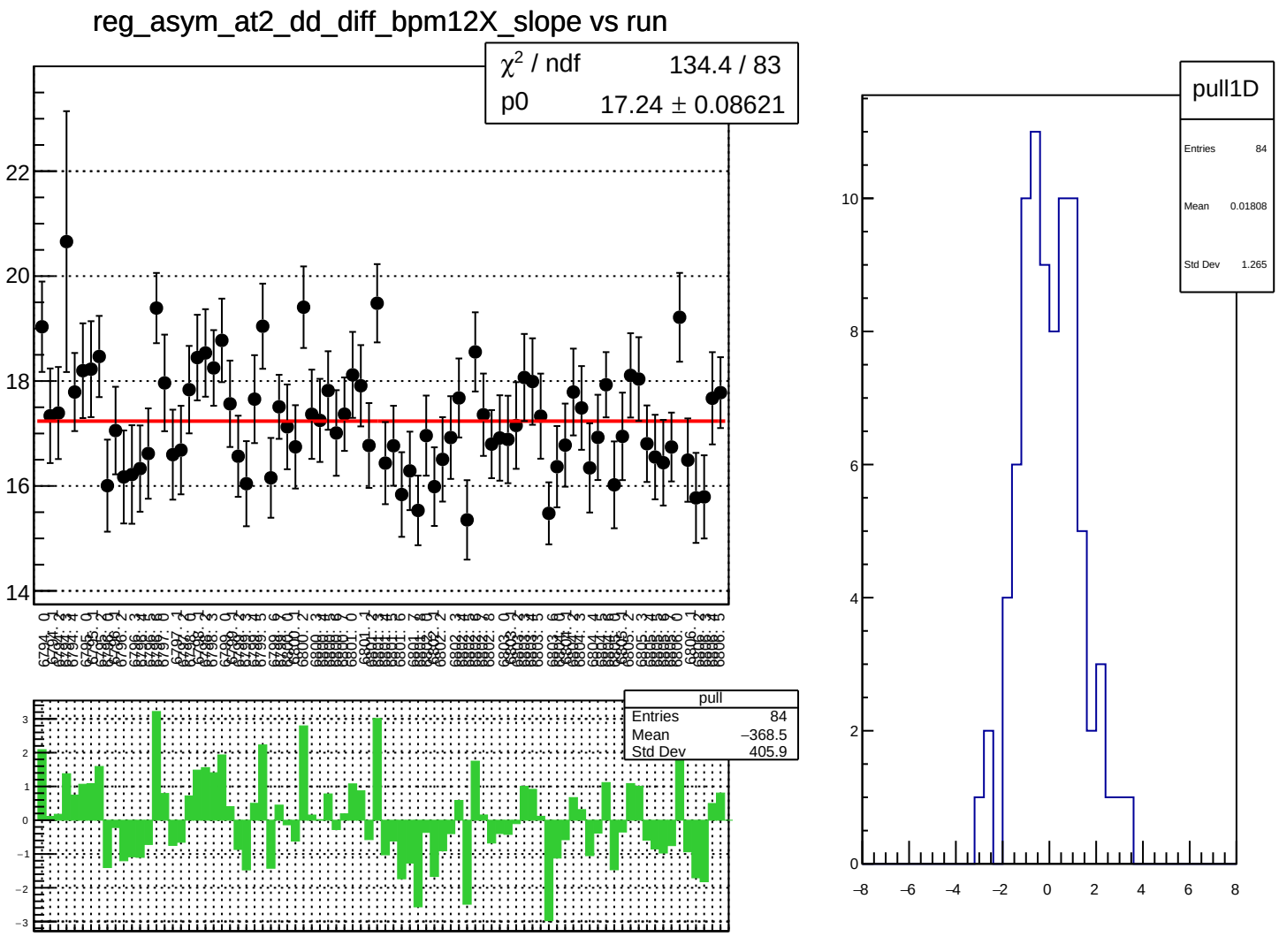

pull1D
Entries 84
Mean 0.01123
Std Dev 0.8688

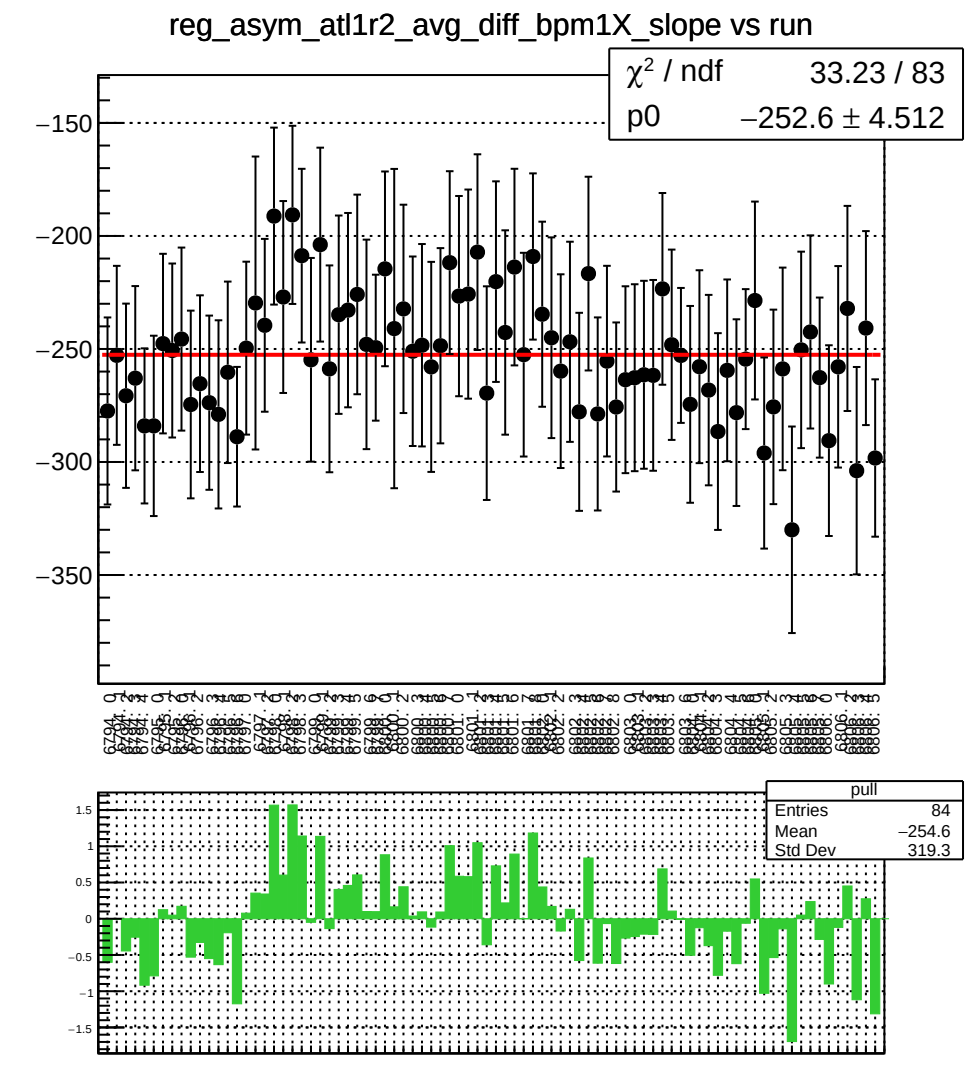

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.66 / 83
p0 53.83 ± 2.016
200
150
100
50
0
pull
Entries 84
Mean −1204
Std Dev 1260
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

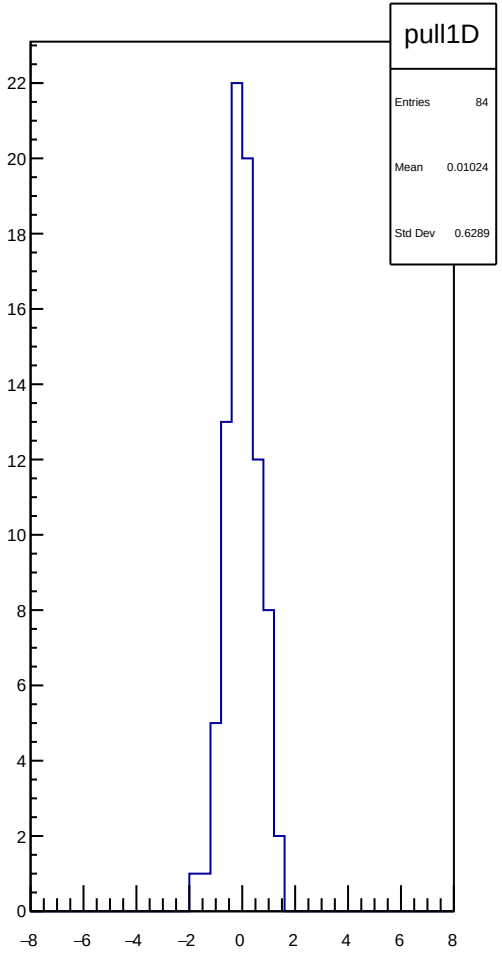

pull1D
Entries 84
Mean −0.0008654
Std Dev 0.8773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

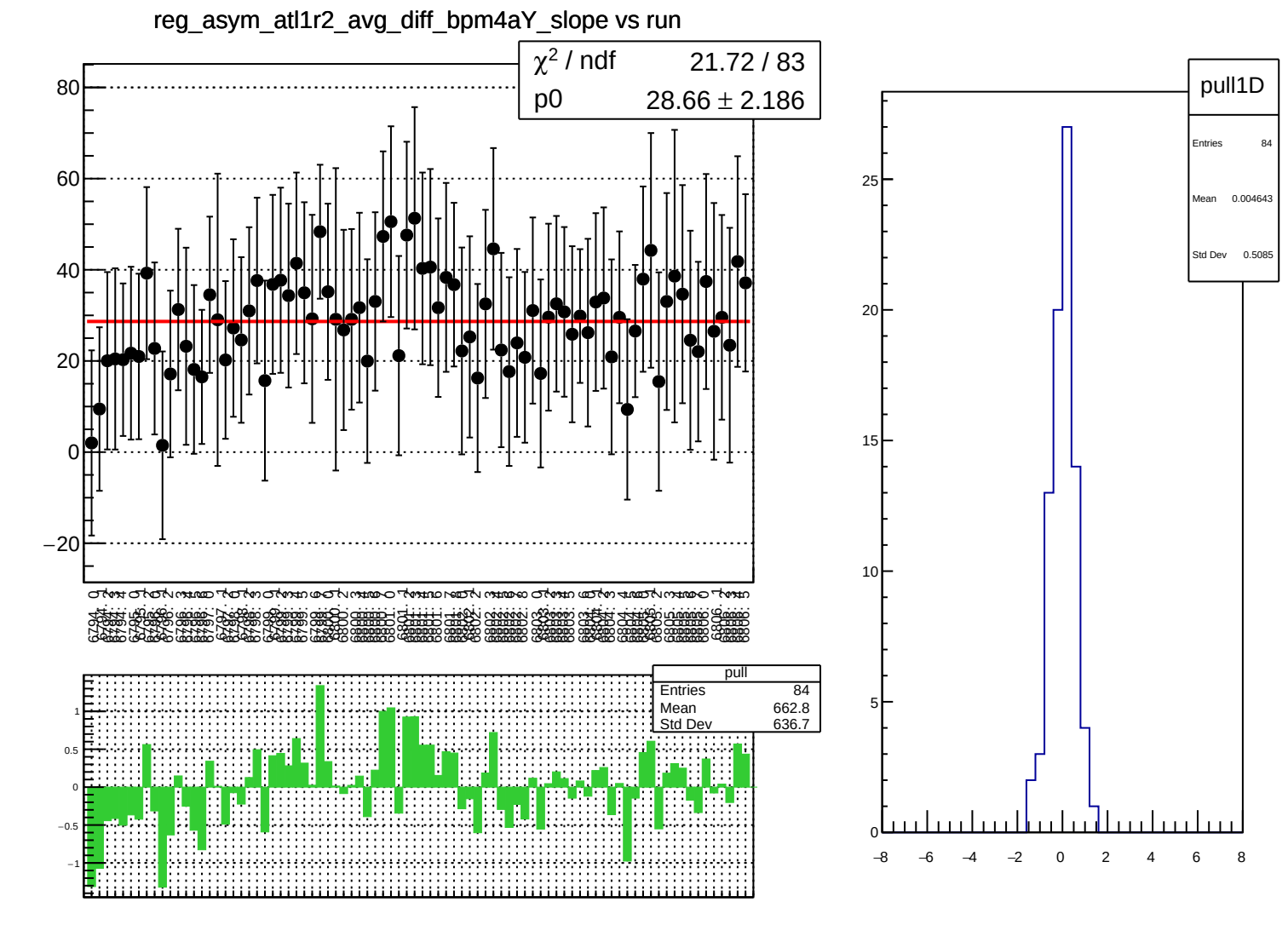

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.94 / 83
p0 −14.64 ± 1.462
pull
Entries 84
Mean −174.9
Std Dev 216.2

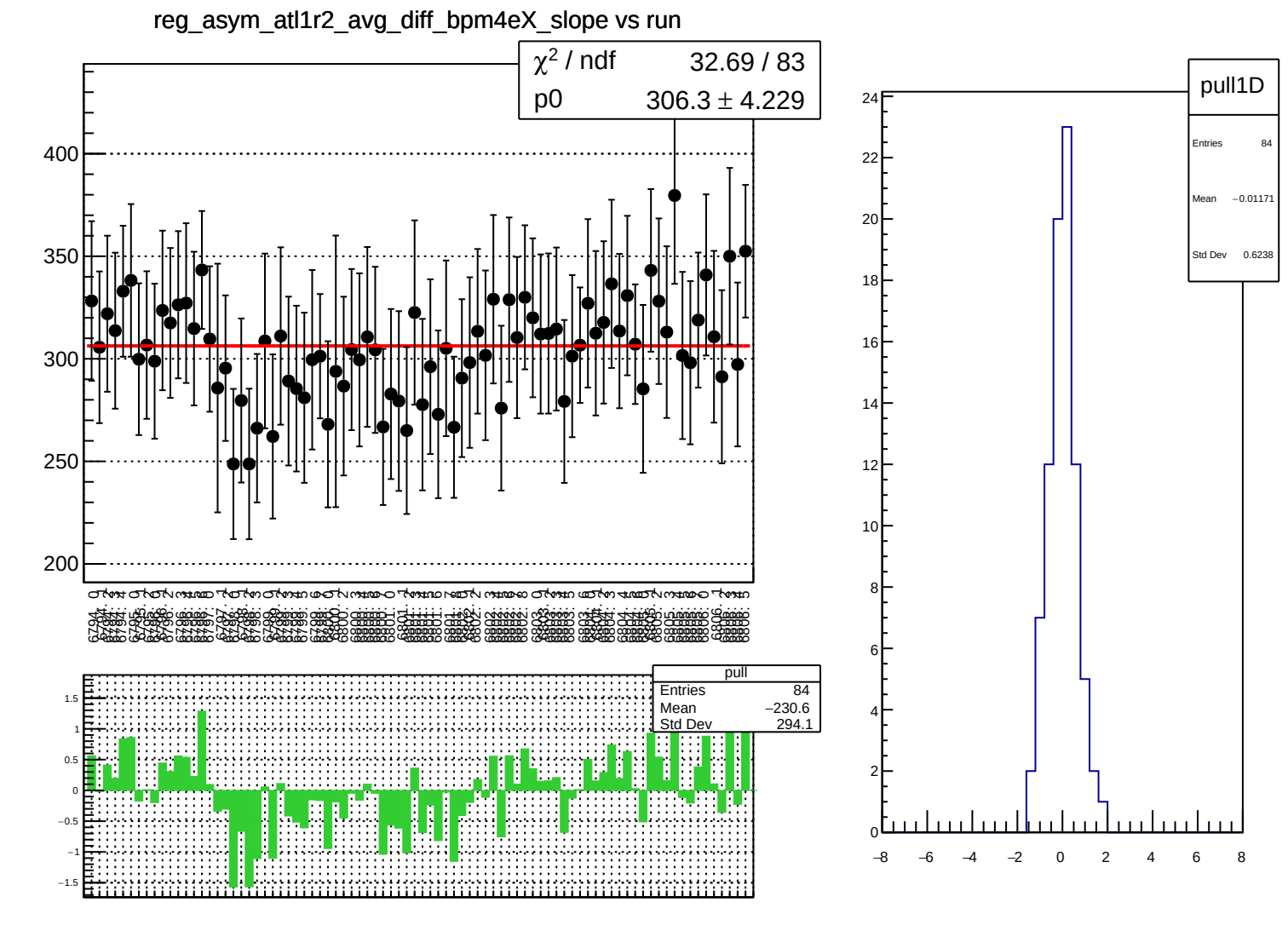

pull1D
Entries 84
Mean −0.007486
Std Dev 0.8447

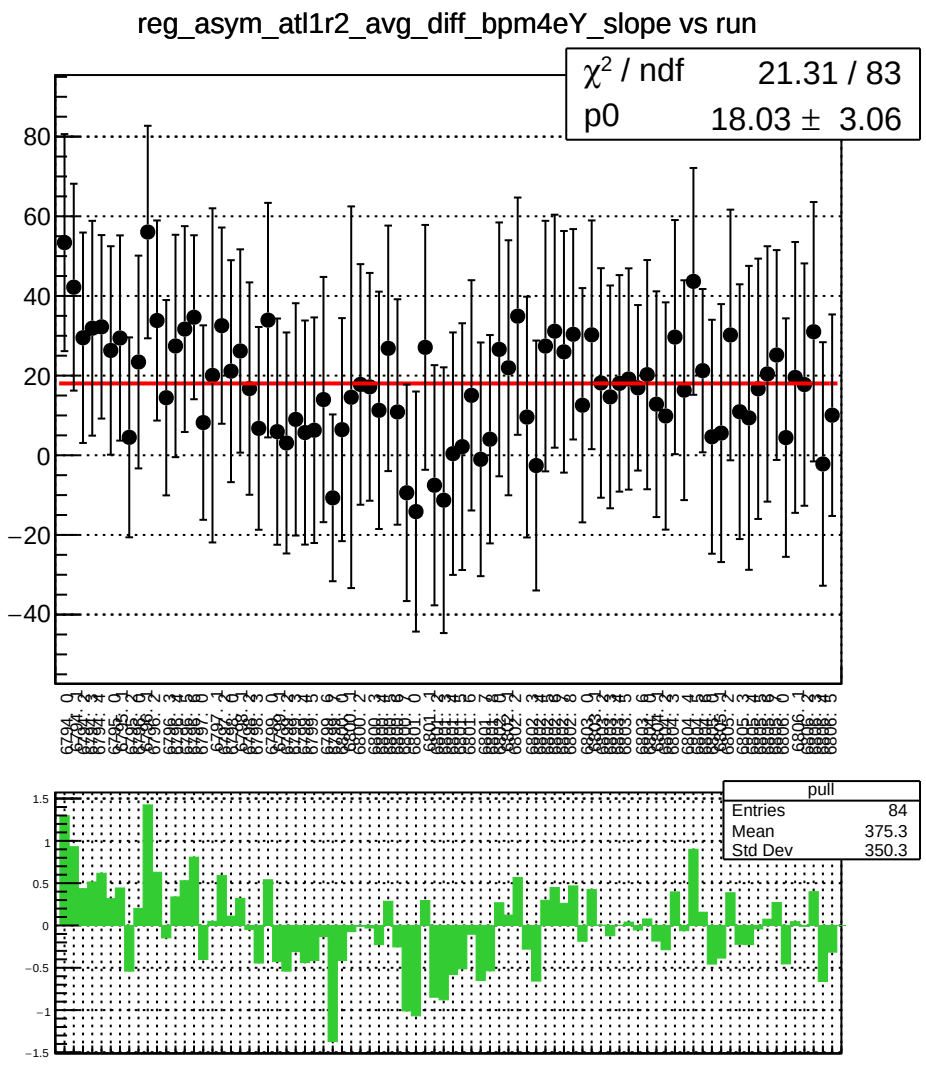

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 134.4 / 83
p0 17.24 ± 0.08621
22
20
18
16
14
pull
Entries 84
Mean −368.5
Std Dev 405.9
3
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.01808
Std Dev 1.265
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

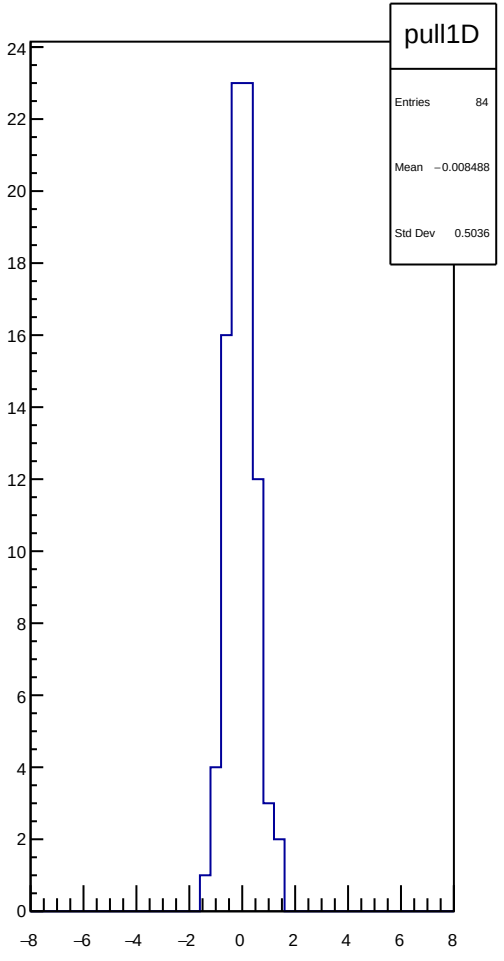

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 33.23 / 83
p0 −252.6 ± 4.512
pull
Entries 84
Mean −254.6
Std Dev 319.3

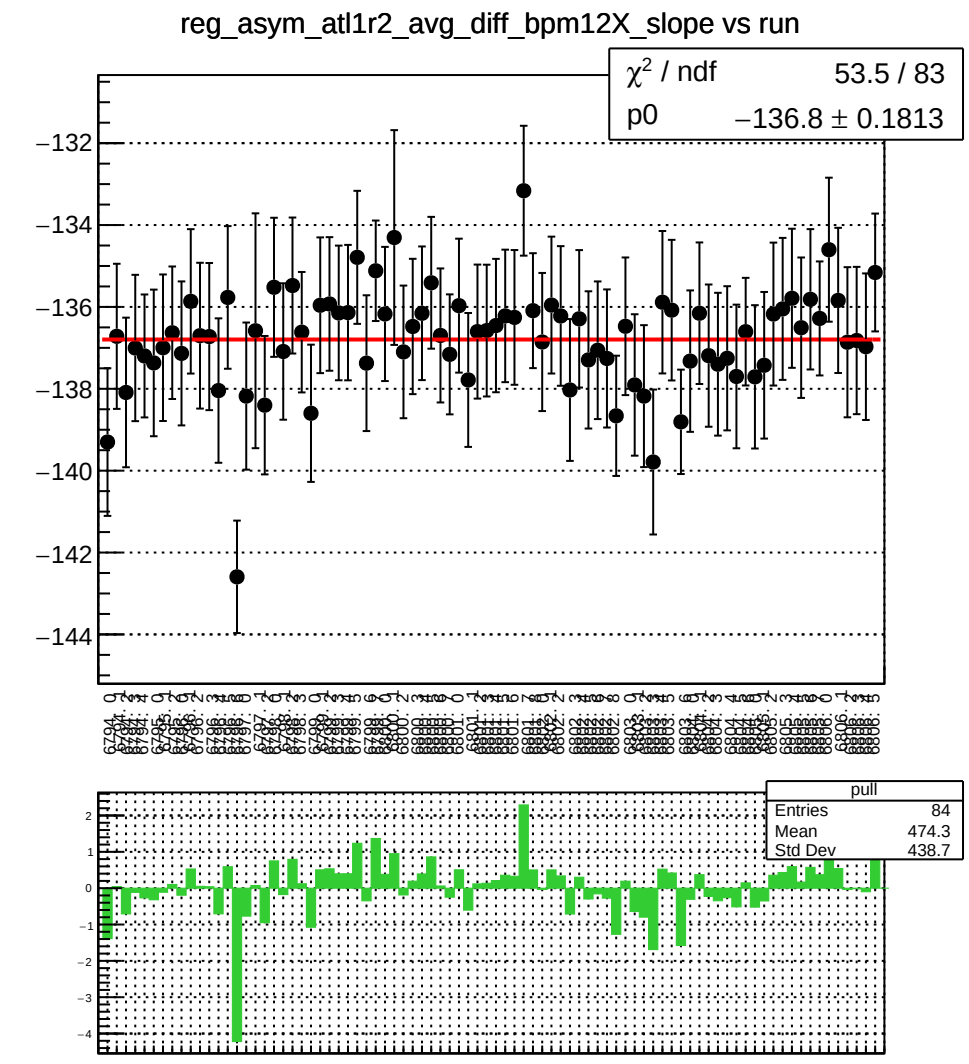

pull1D
Entries 84
Mean 0.01024
Std Dev 0.6289

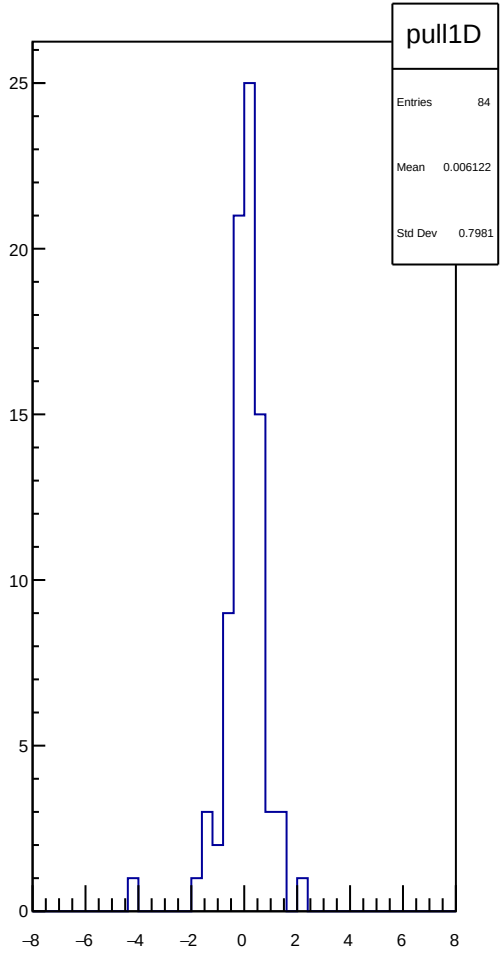

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.72 / 83
p0 28.66 ± 2.186
pull
Entries 84
Mean 662.8
Std Dev 636.7
pull1D
Entries 84
Mean 0.004643
Std Dev 0.5085

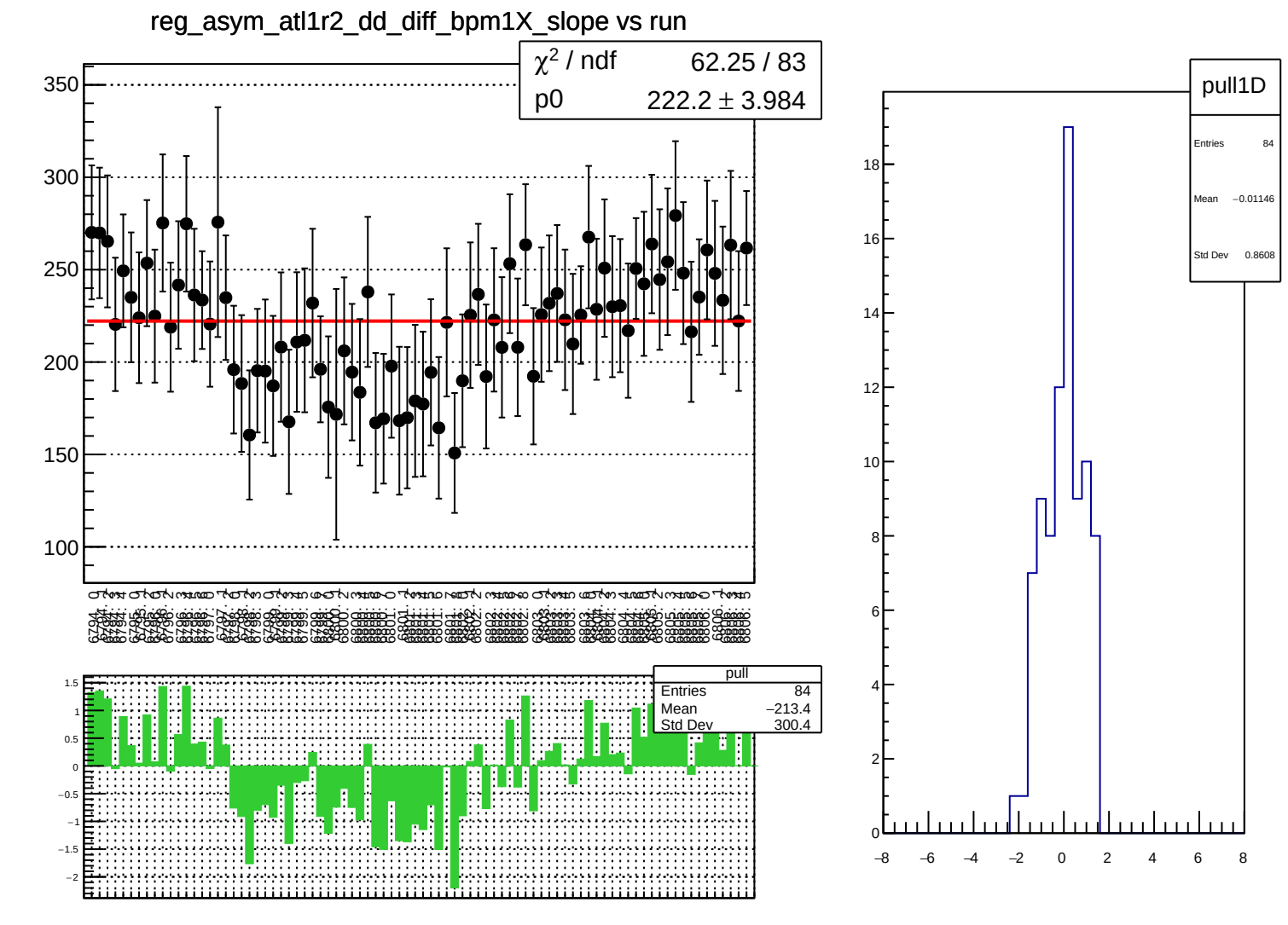

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.69 / 83
p0 306.3 ± 4.229
pull
Entries 84
Mean −230.6
Std Dev 294.1
pull1D
Entries 84
Mean −0.01171
Std Dev 0.6238

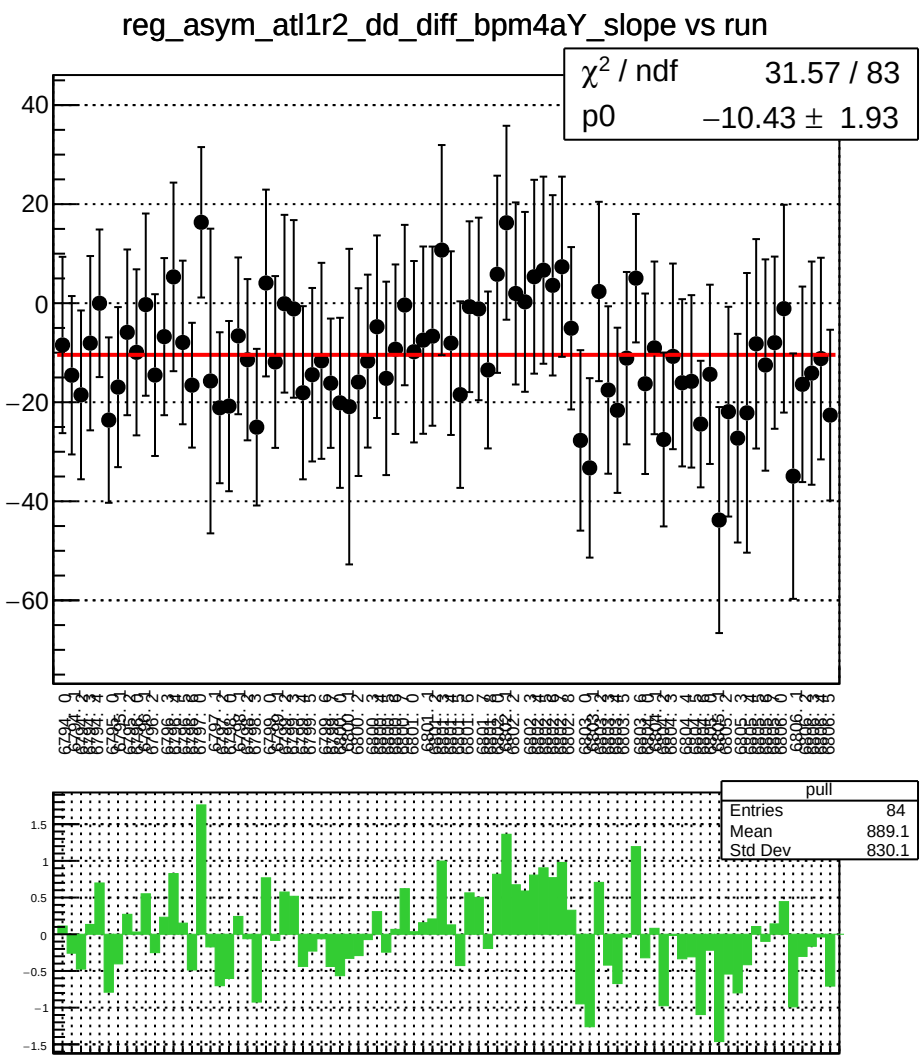

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.31 / 83
p0 18.03 ± 3.06
pull
Entries 84
Mean 375.3
Std Dev 350.3

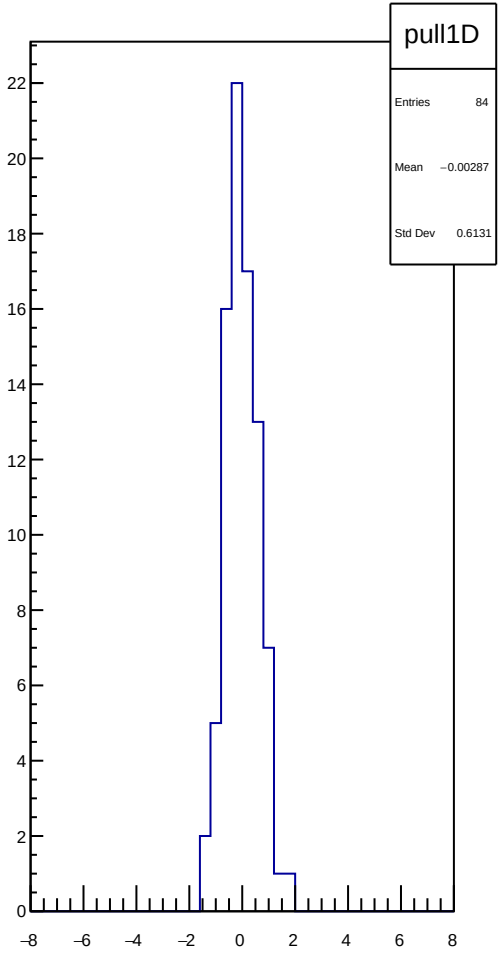

pull1D
Entries 84
Mean −0.008488
Std Dev 0.5036

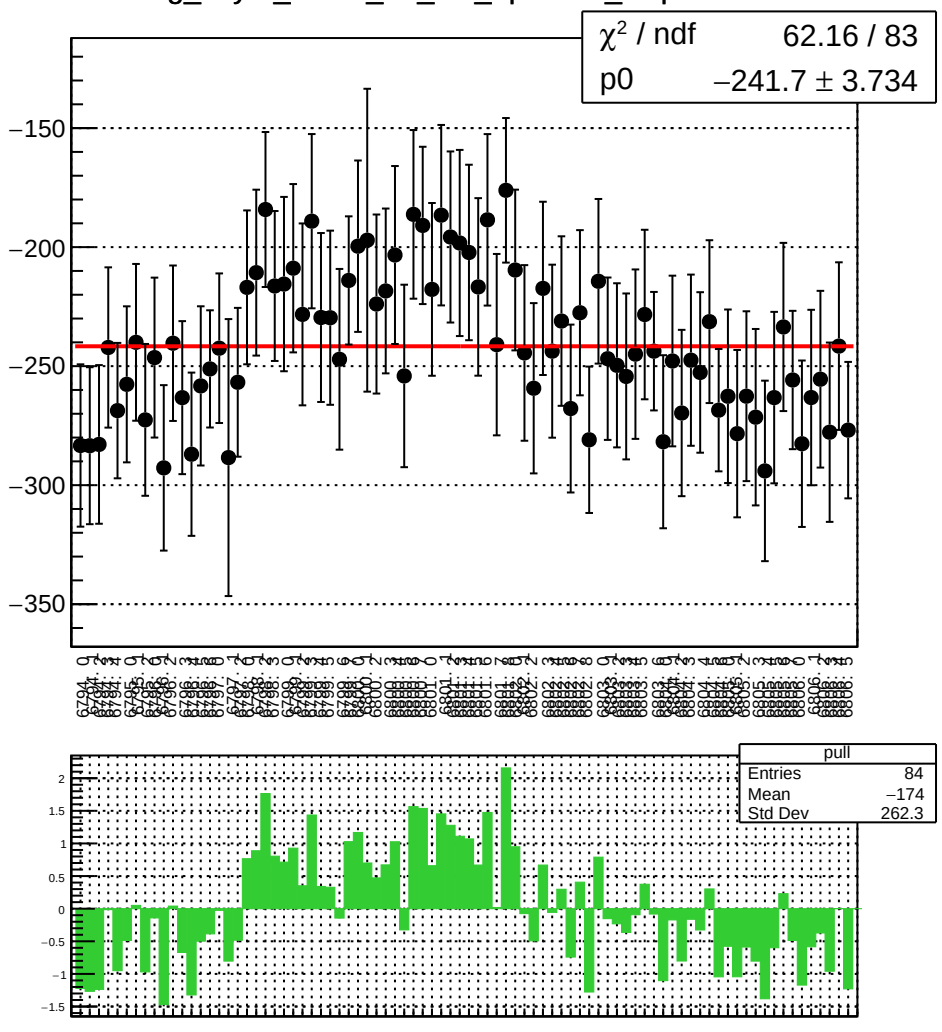

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 53.5 / 83
p0 −136.8 ± 0.1813
−132
−134
−136
−138
−140
−142
−144
pull
Entries 84
Mean 474.3
Std Dev 438.7
2
1
0
−1
−2
−3
−4

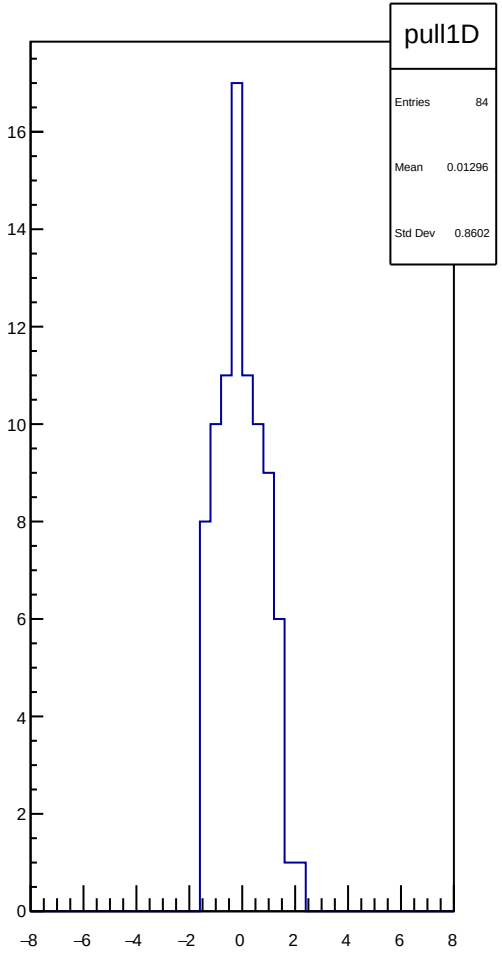

pull1D
Entries 84
Mean 0.006122
Std Dev 0.7981
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

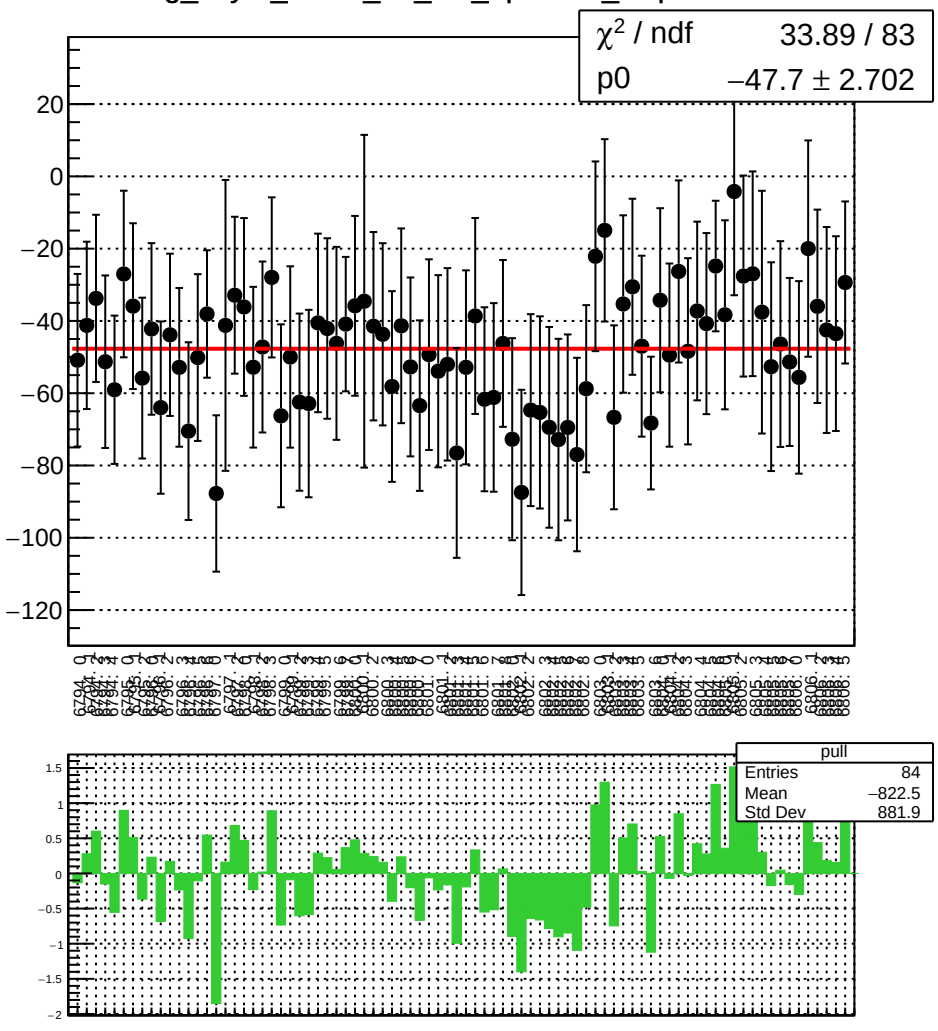

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 62.25 / 83
p0 222.2 ± 3.984
pull
Entries 84
Mean −213.4
Std Dev 300.4
pull1D
Entries 84
Mean −0.01146
Std Dev 0.8608

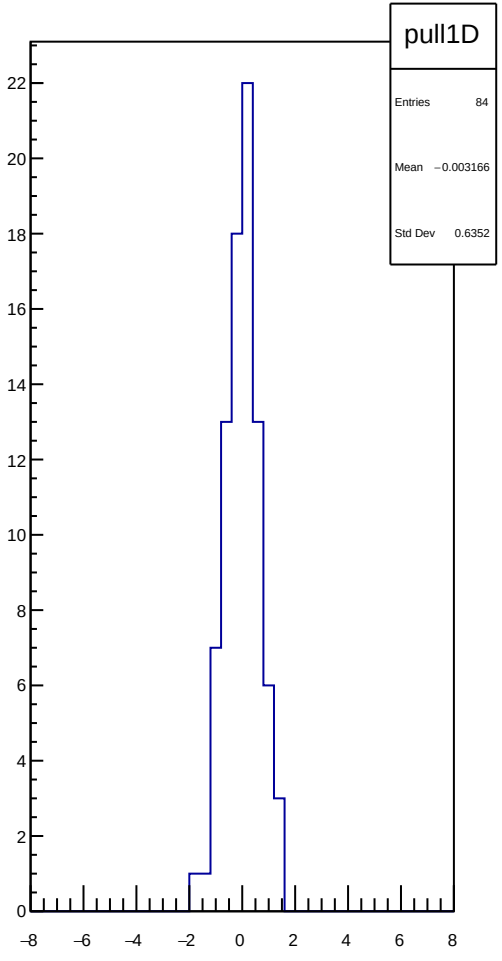

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.57 / 83
p0 −10.43 ± 1.93
pull
Entries 84
Mean 889.1
Std Dev 830.1

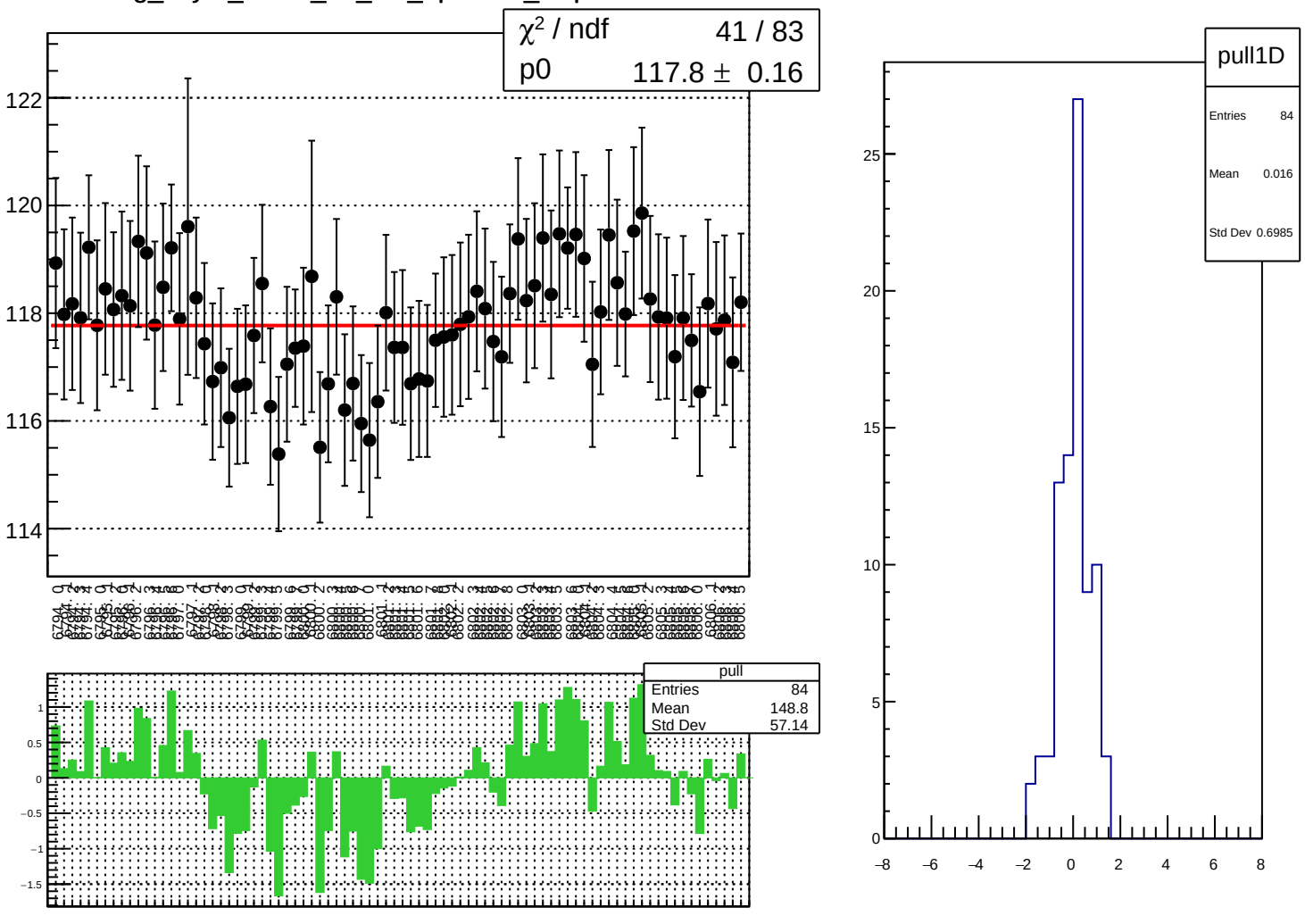

pull1D
Entries 84
Mean −0.00287
Std Dev 0.6131

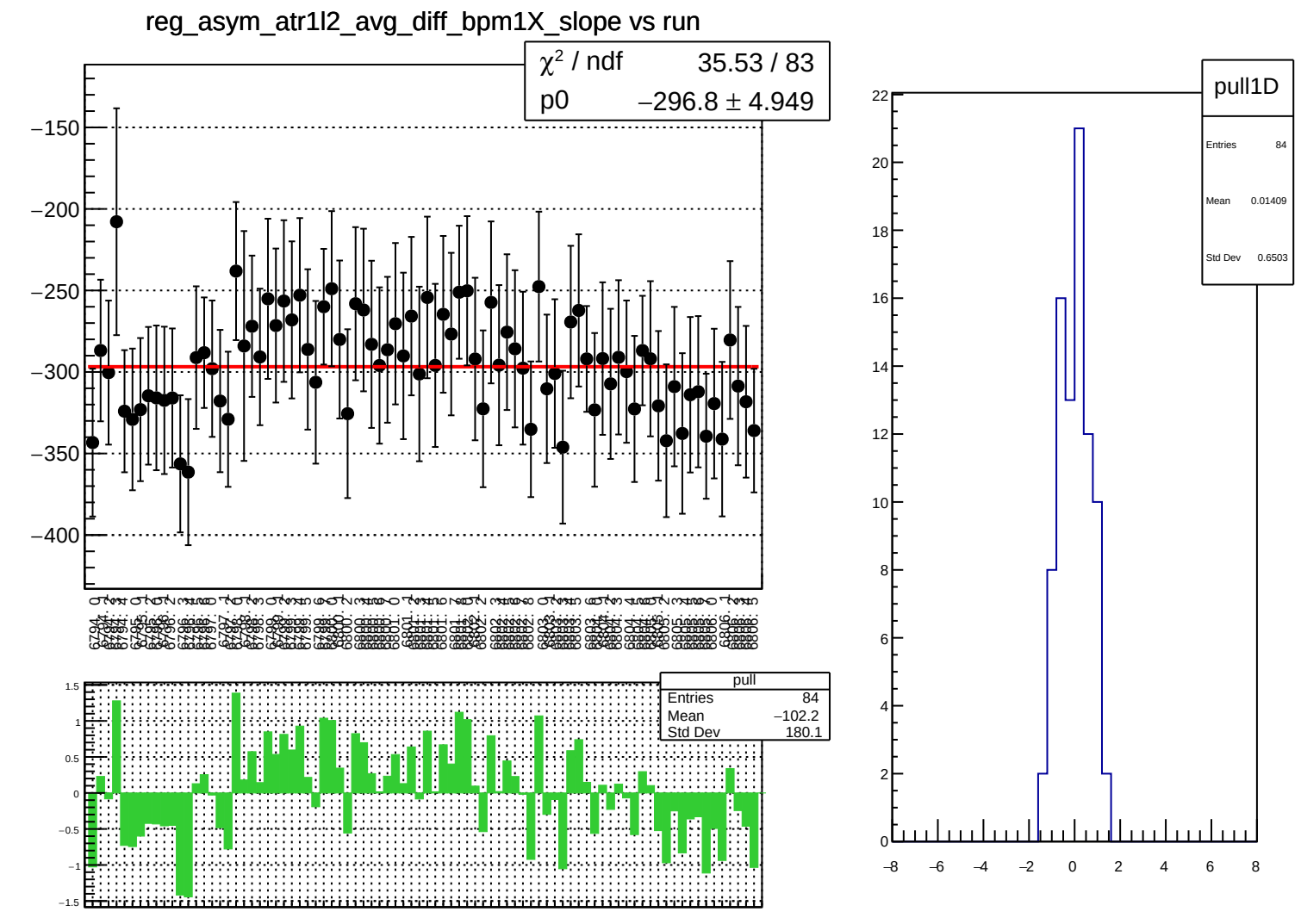

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.16 / 83
p0 −241.7 ± 3.734
pull
Entries 84
Mean −174
Std Dev 262.3

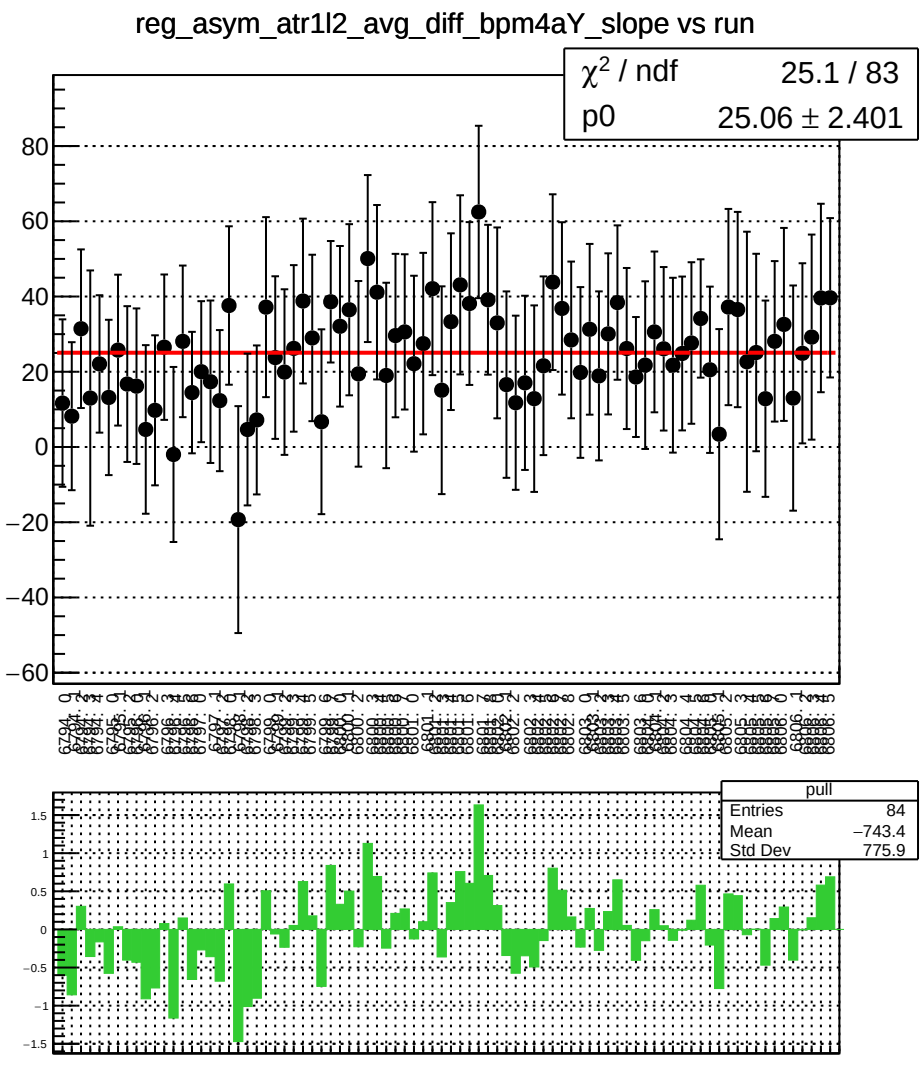

pull1D
Entries 84
Mean 0.01296
Std Dev 0.8602

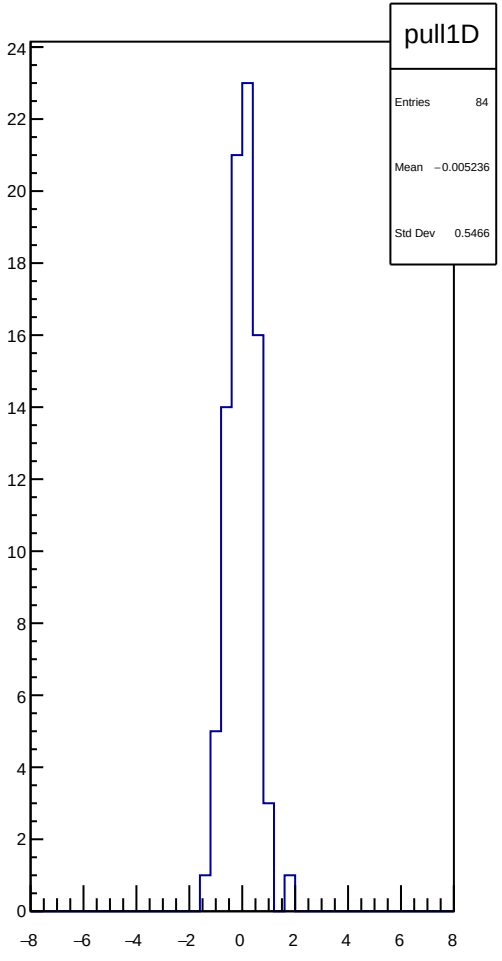

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.89 / 83
p0 −47.7 ± 2.702
pull
Entries 84
Mean −822.5
Std Dev 881.9

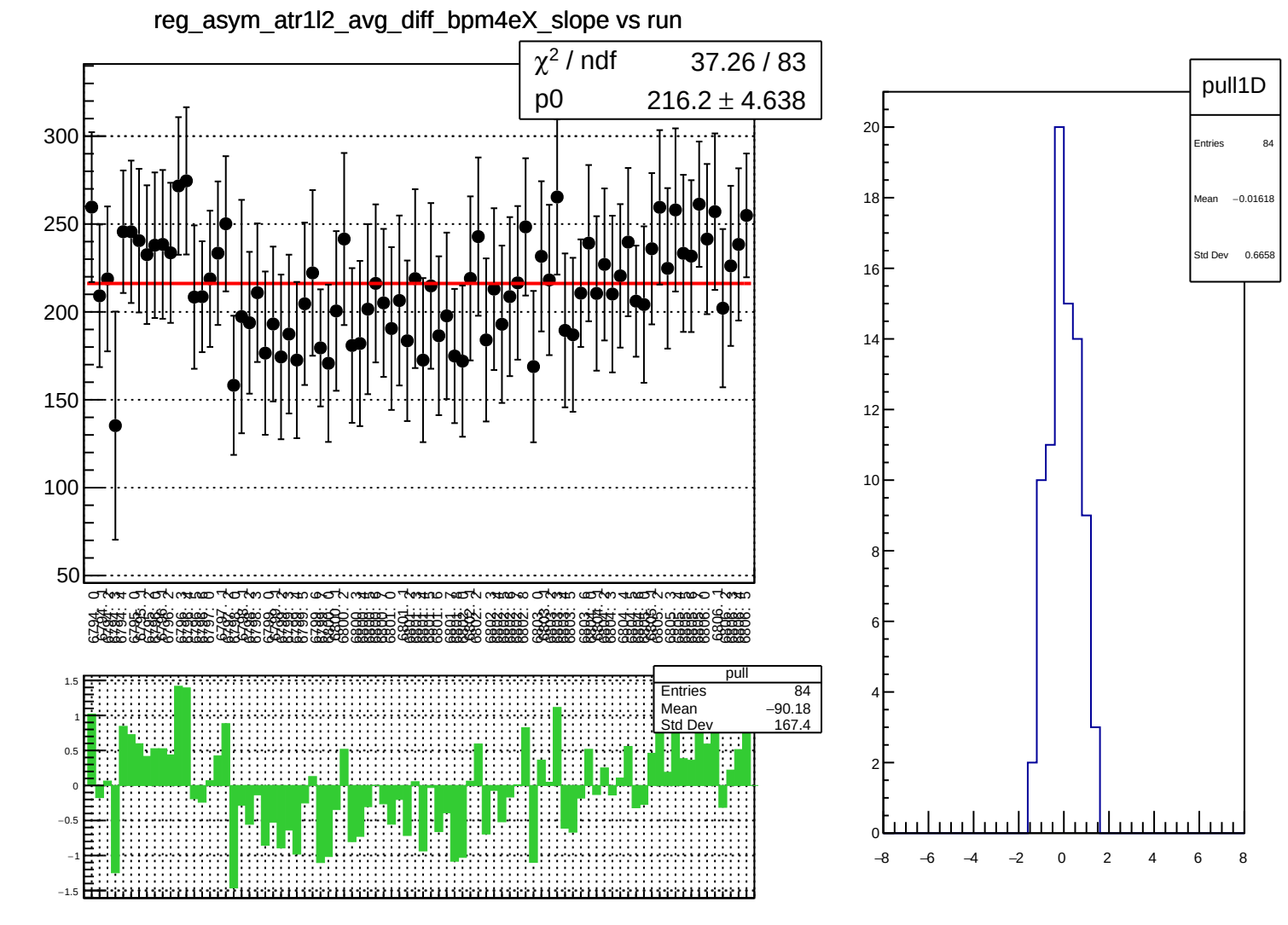

pull1D
Entries 84
Mean −0.003166
Std Dev 0.6352

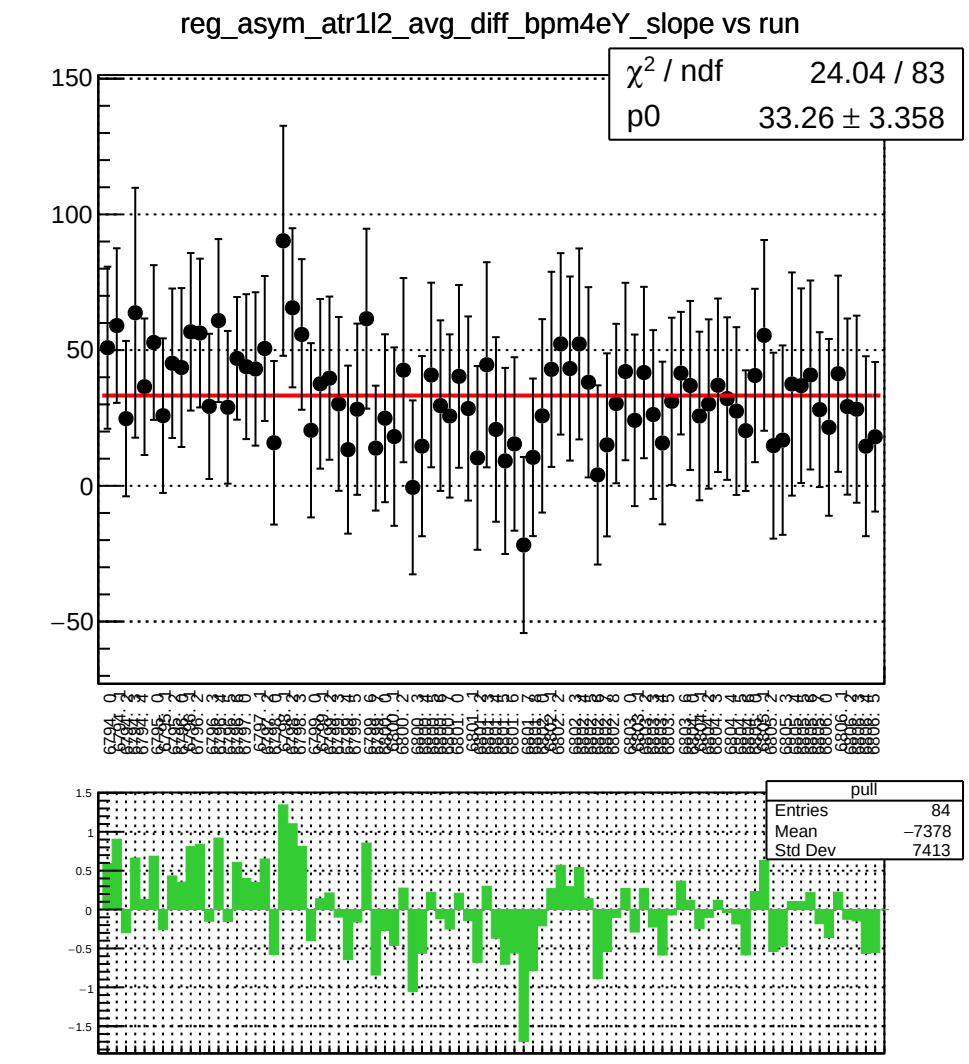

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 41 / 83
p0 117.8 ± 0.16
122
120
118
116
114
pull
Entries 84
Mean 148.8
Std Dev 57.14
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.016
Std Dev 0.6985
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

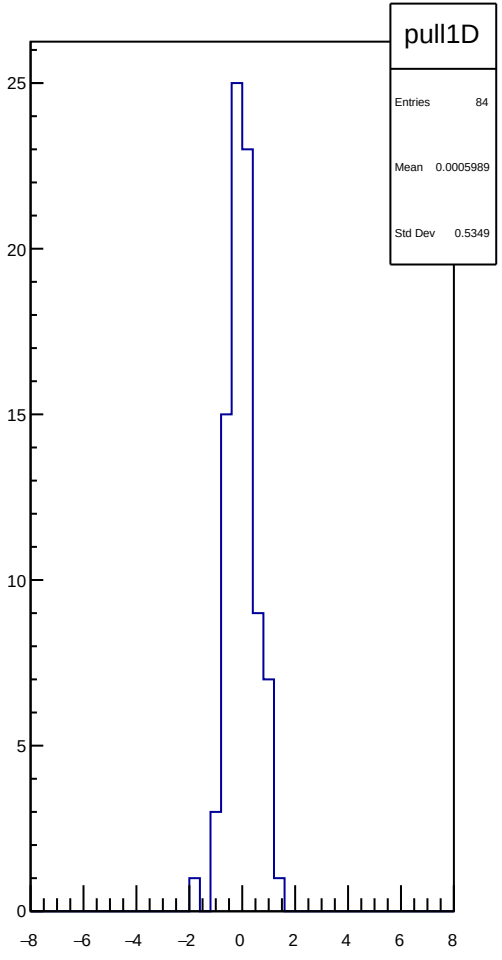

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 35.53 / 83
p0 −296.8 ± 4.949
pull
Entries 84
Mean −102.2
Std Dev 180.1
pull1D
Entries 84
Mean 0.01409
Std Dev 0.6503

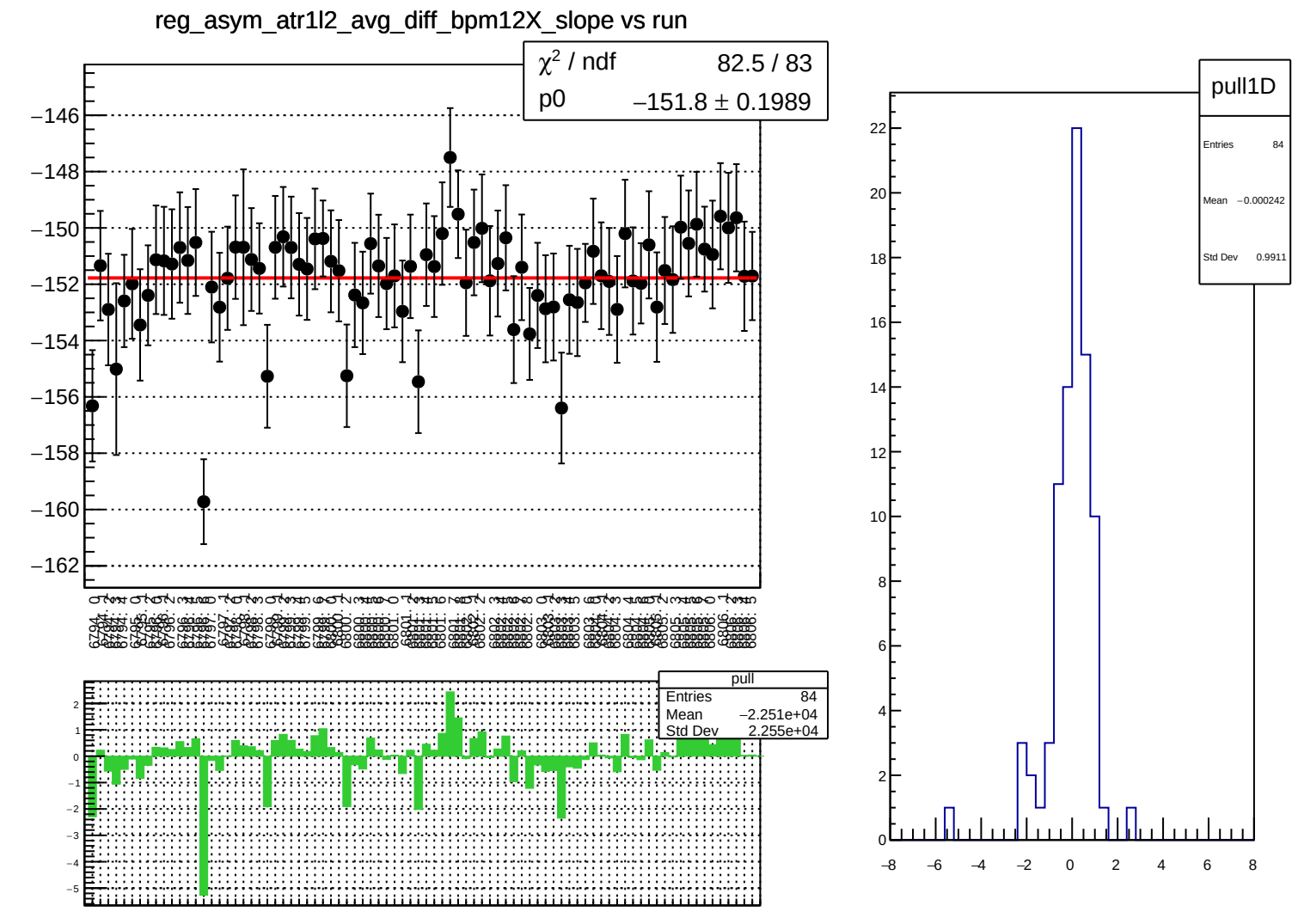

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.1 / 83
p0 25.06 ± 2.401
pull
Entries 84
Mean −743.4
Std Dev 775.9

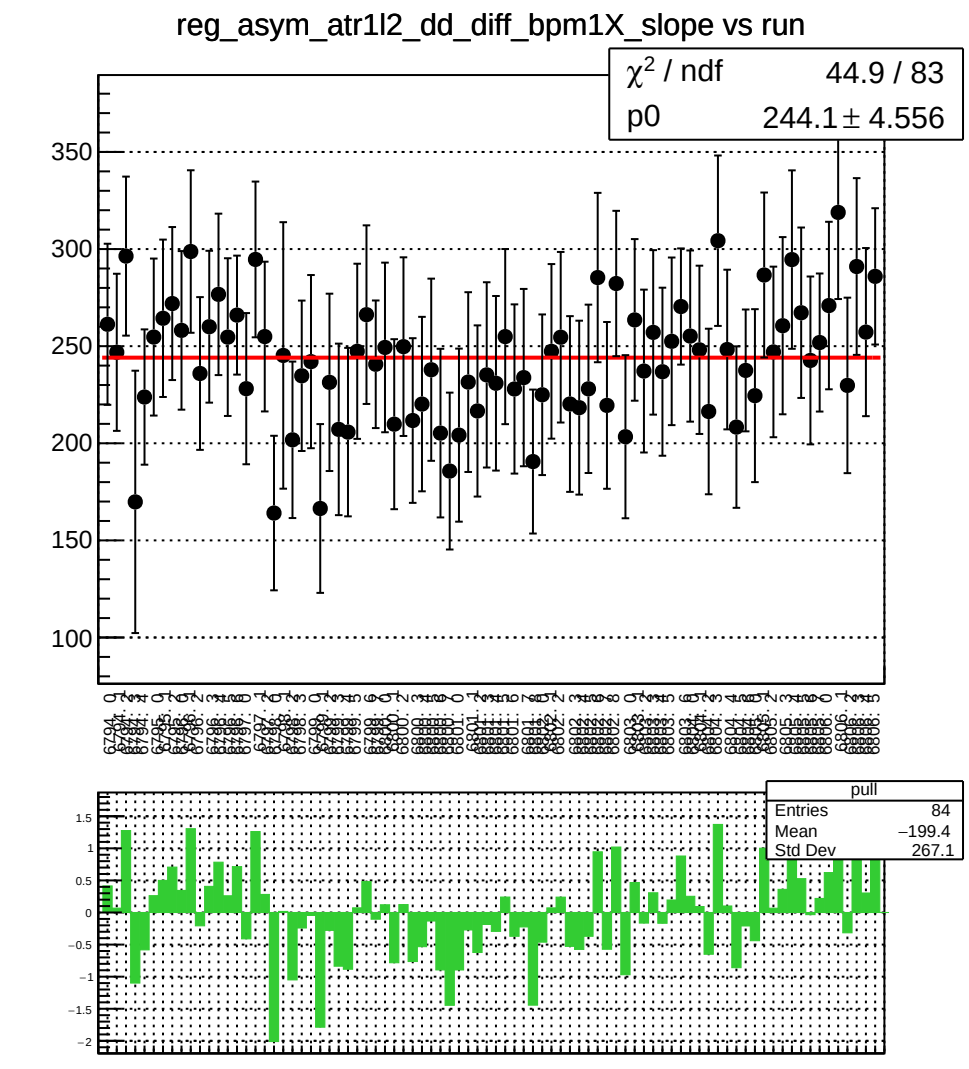

pull1D
Entries 84
Mean −0.005236
Std Dev 0.5466

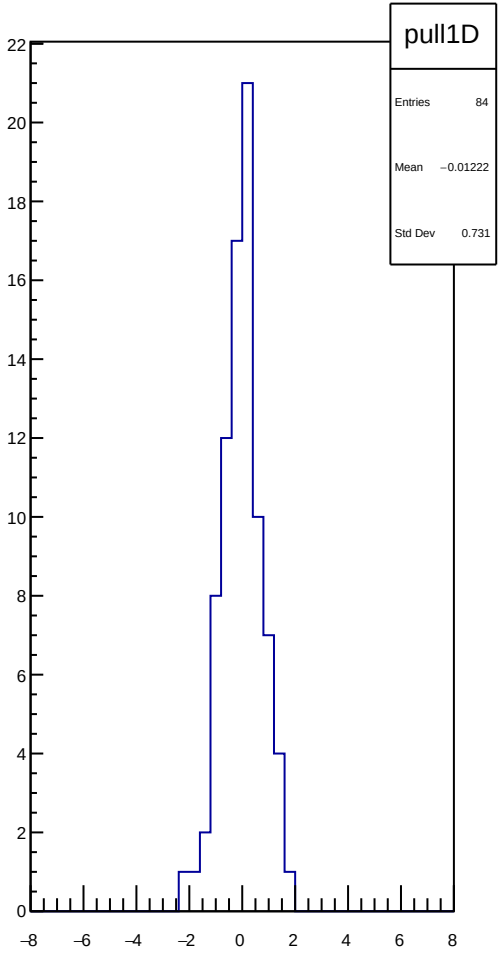

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.26 / 83
p0 216.2 ± 4.638
pull
Entries 84
Mean −90.18
Std Dev 167.4
pull1D
Entries 84
Mean −0.01618
Std Dev 0.6658

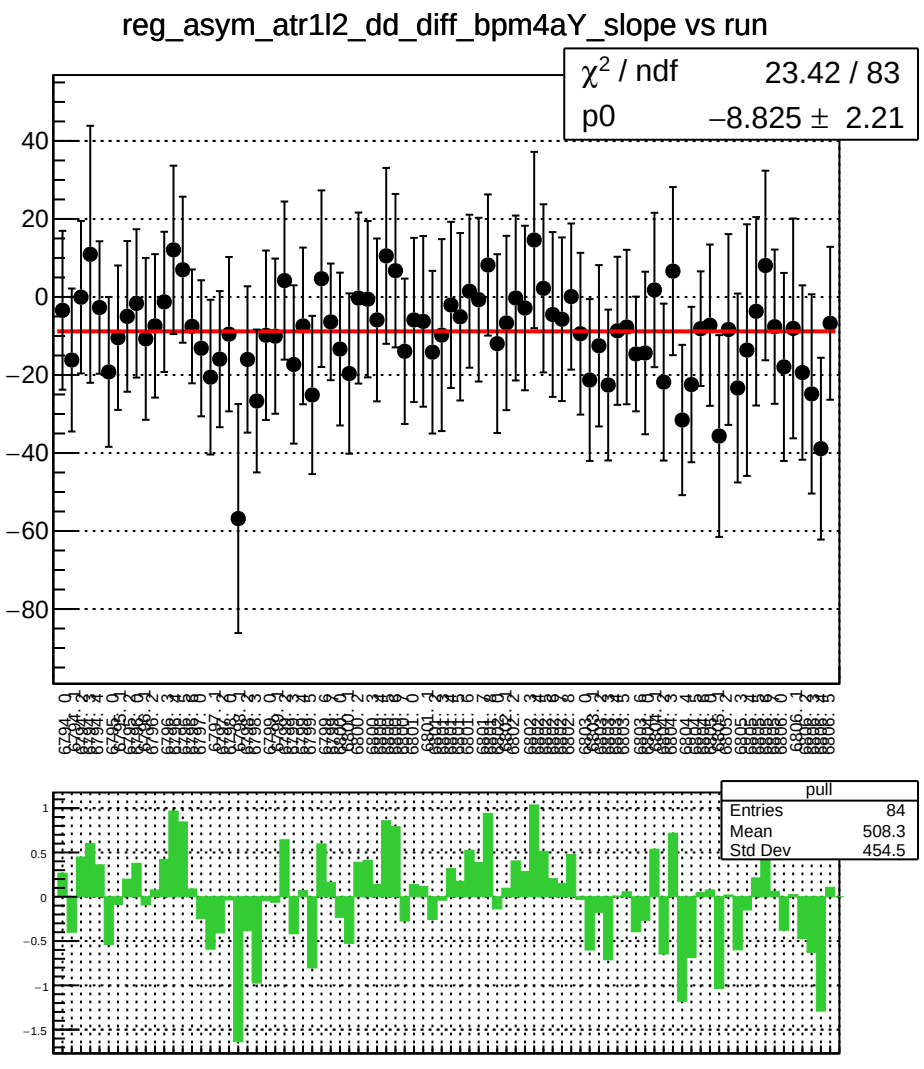

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.04 / 83
p0 33.26 ± 3.358
150
100
50
0
−50
pull
Entries 84
Mean −7378
Std Dev 7413
1.5
1
0.5
0
−0.5
−1
−1.5

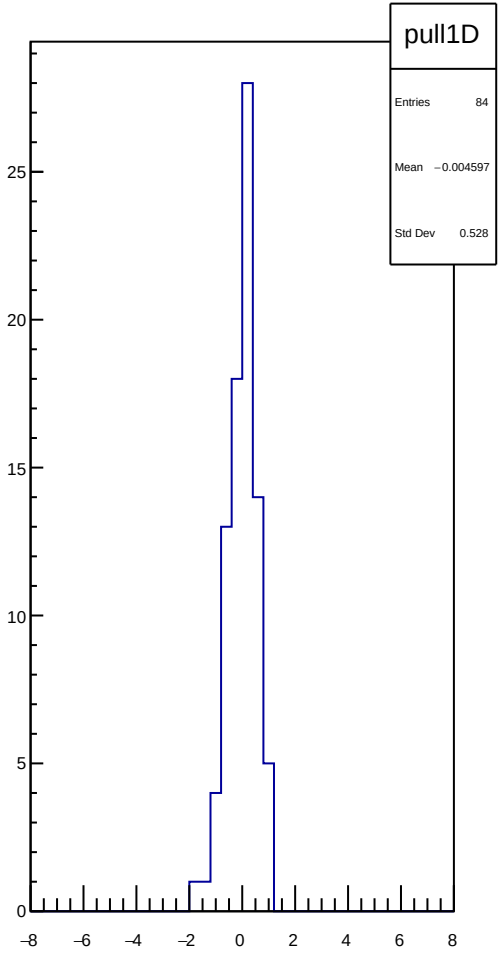

pull1D
Entries 84
Mean 0.0005989
Std Dev 0.5349
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

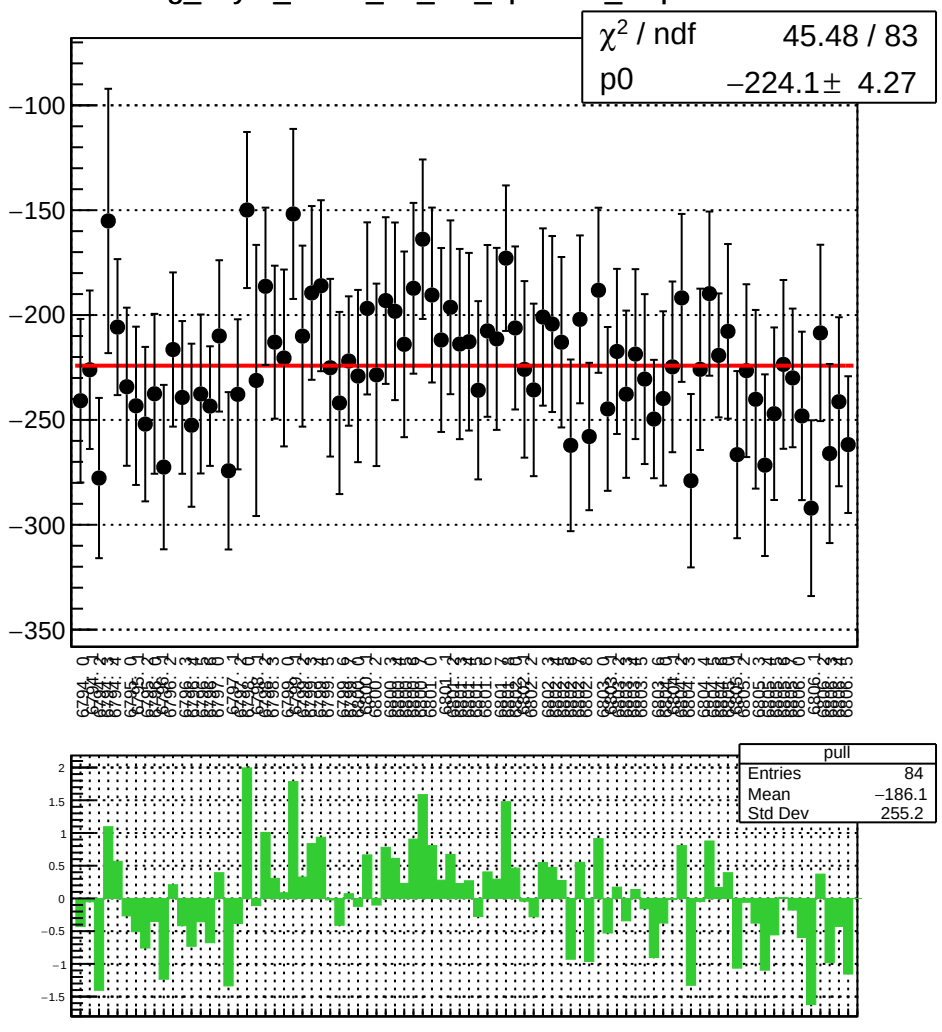

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 82.5 / 83
p0 −151.8 ± 0.1989
pull
Entries 84
Mean −2.251e+04
Std Dev 2.255e+04
pull1D
Entries 84
Mean −0.000242
Std Dev 0.9911

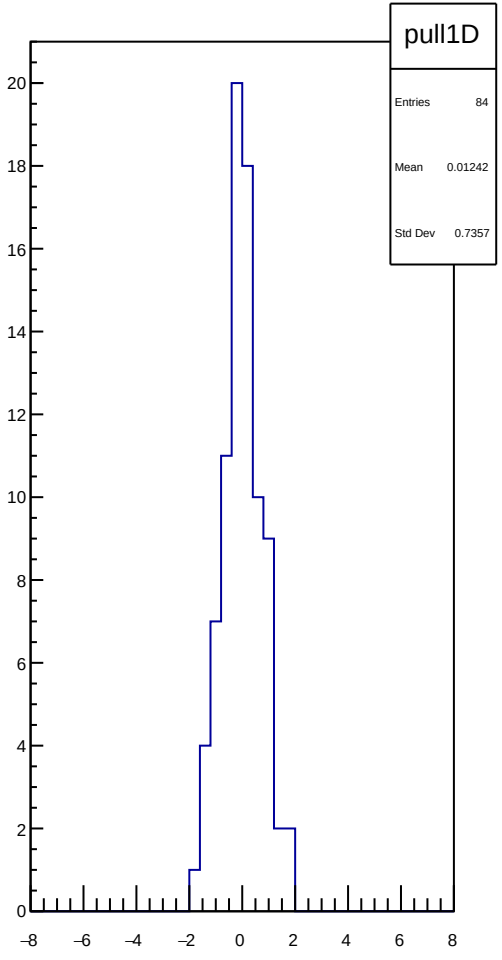

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 44.9 / 83
p0 244.1 ± 4.556
pull
Entries 84
Mean −199.4
Std Dev 267.1

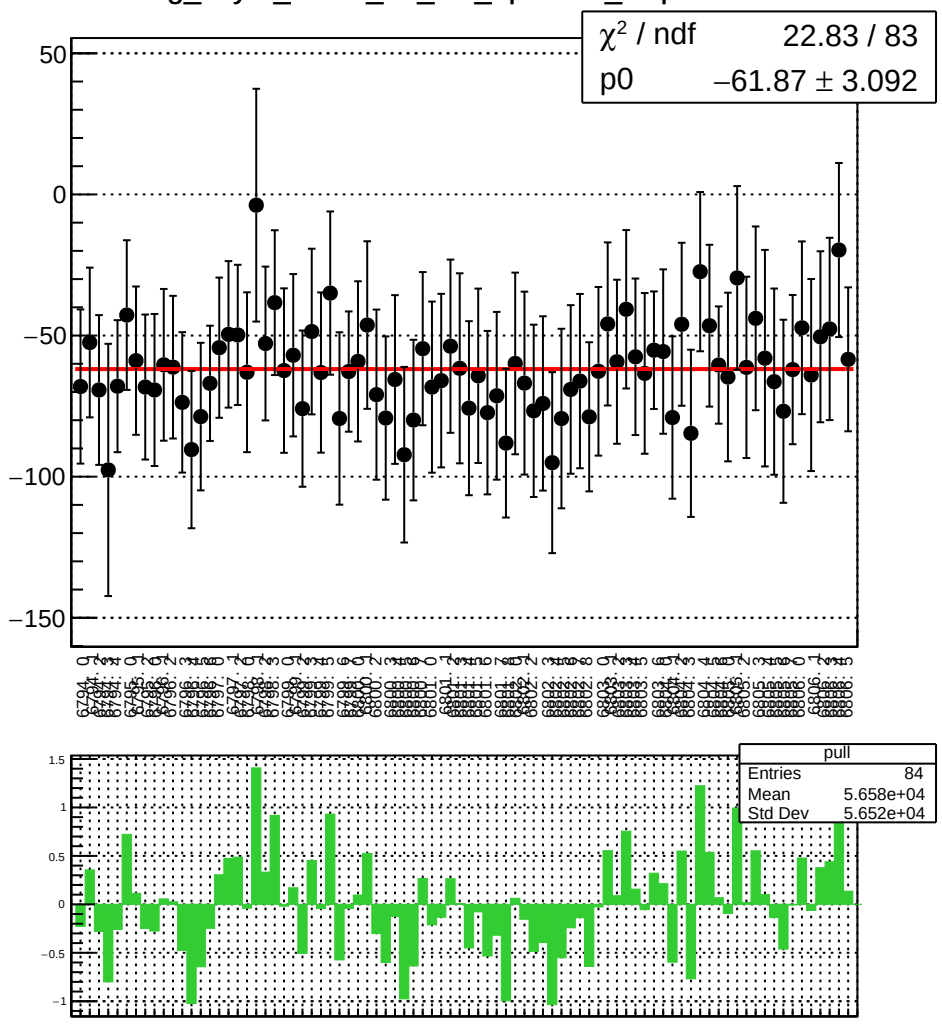

pull1D
Entries 84
Mean −0.01222
Std Dev 0.731

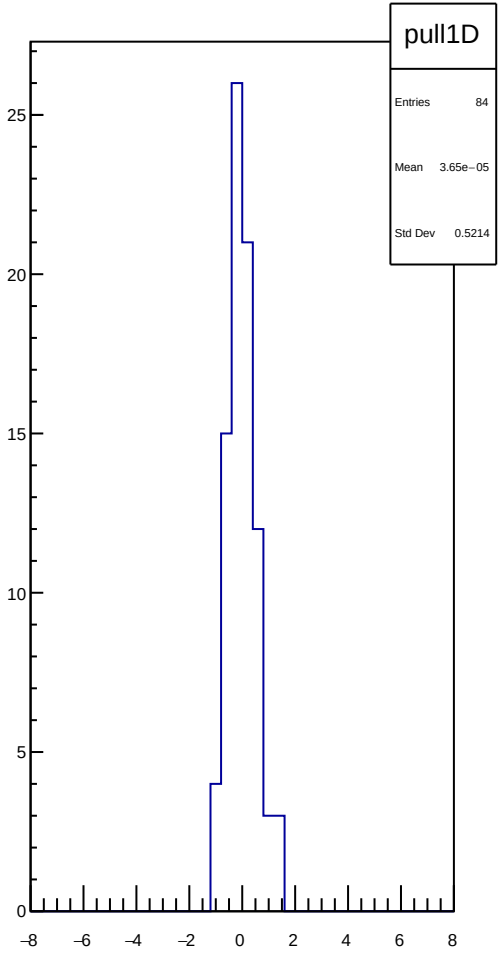

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.42 / 83
p0 −8.825 ± 2.21
pull
Entries 84
Mean 508.3
Std Dev 454.5

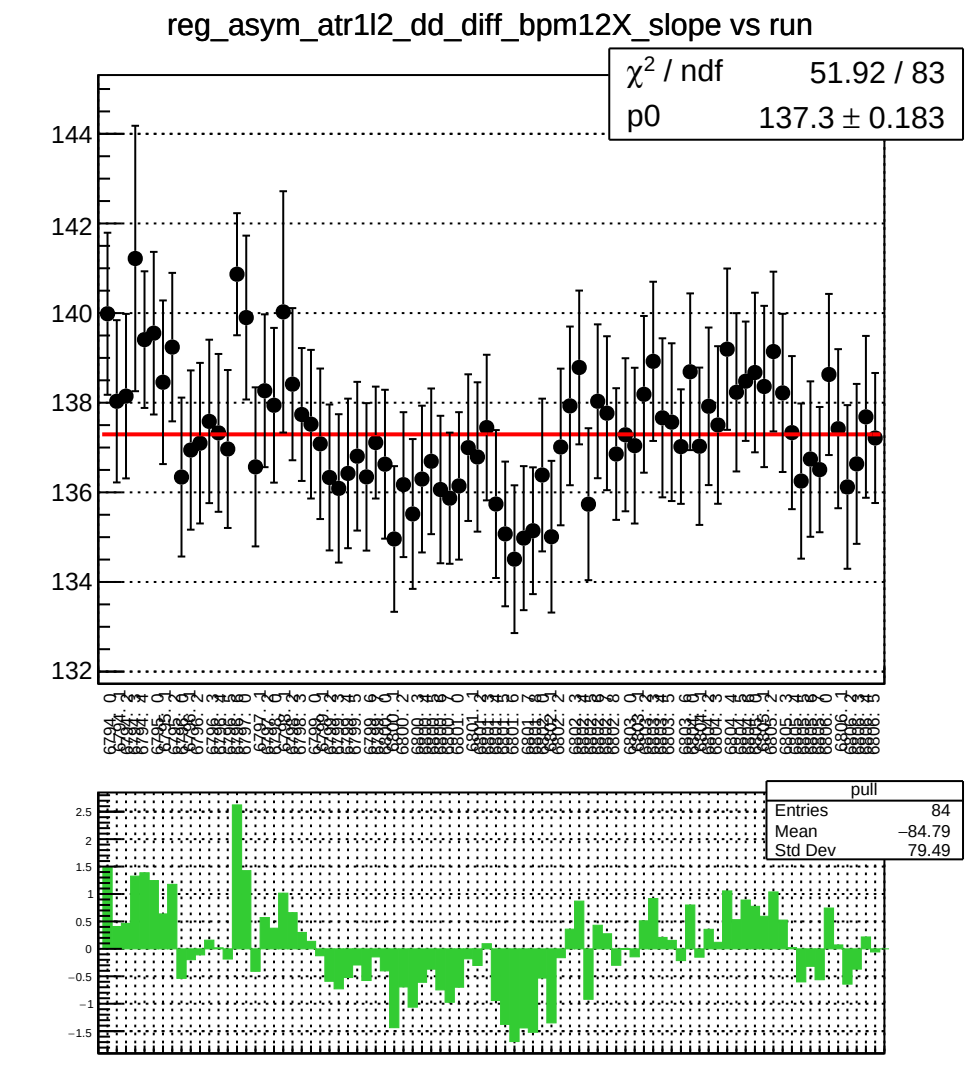

pull1D
Entries 84
Mean −0.004597
Std Dev 0.528

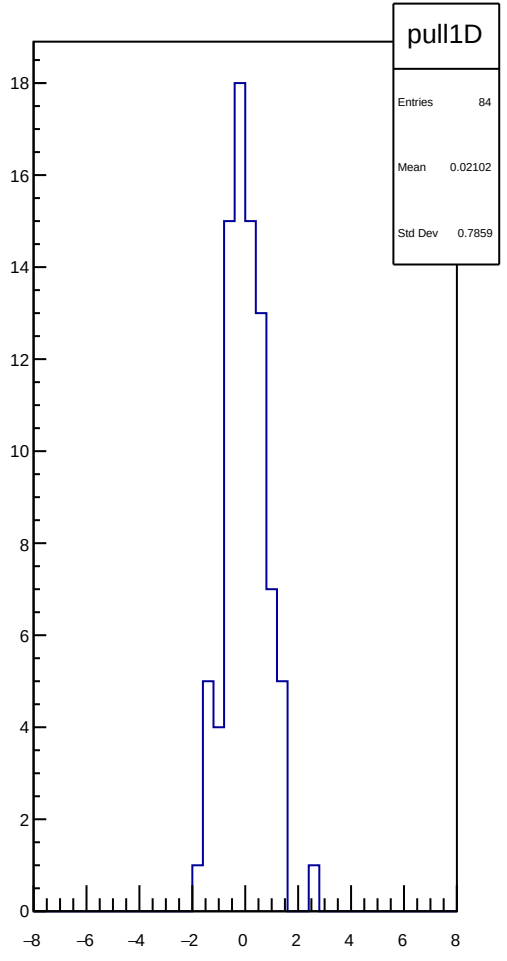

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.48 / 83
p0 −224.1± 4.27
pull
Entries 84
Mean −186.1
Std Dev 255.2

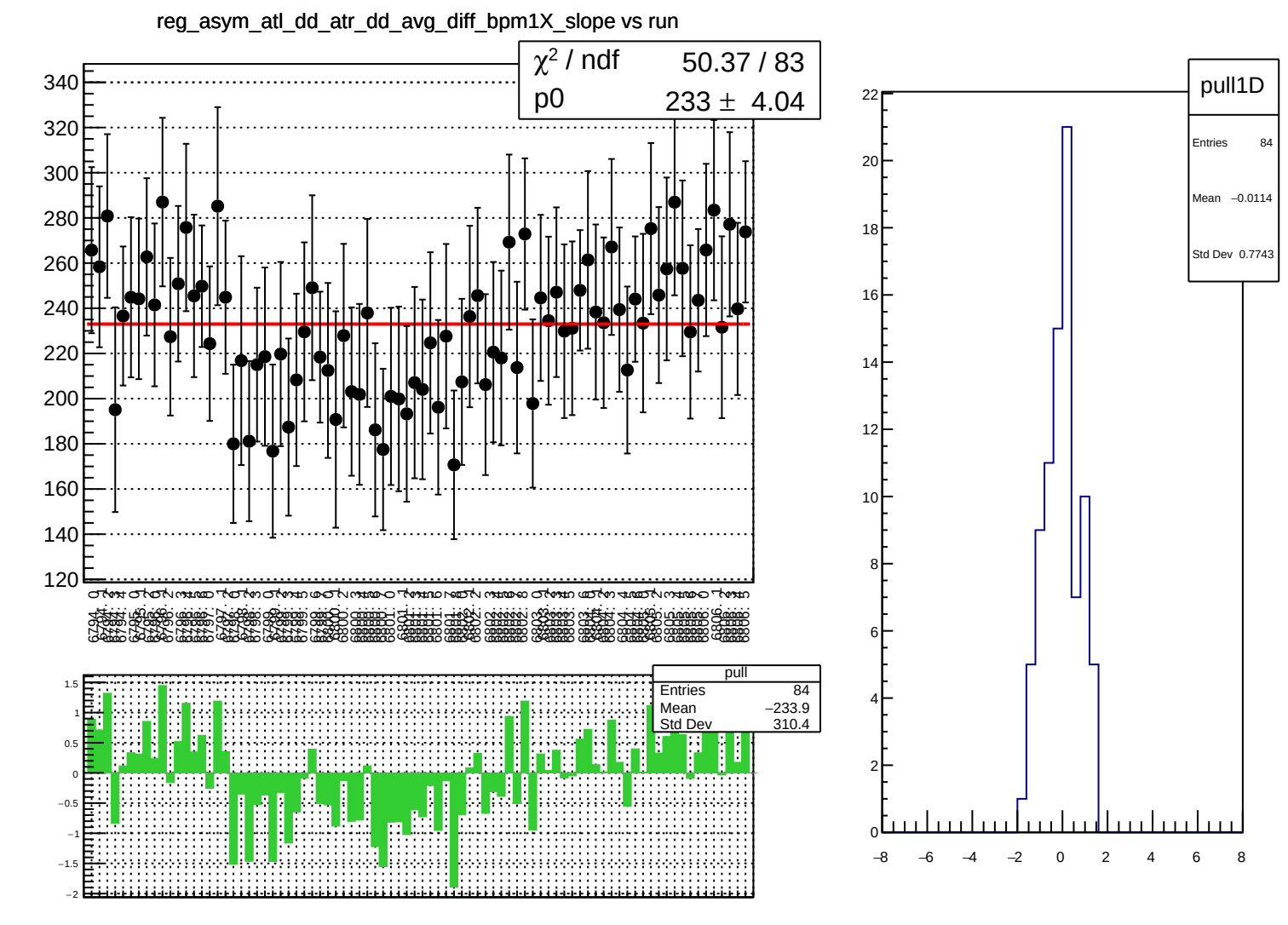

pull1D
Entries 84
Mean 0.01242
Std Dev 0.7357

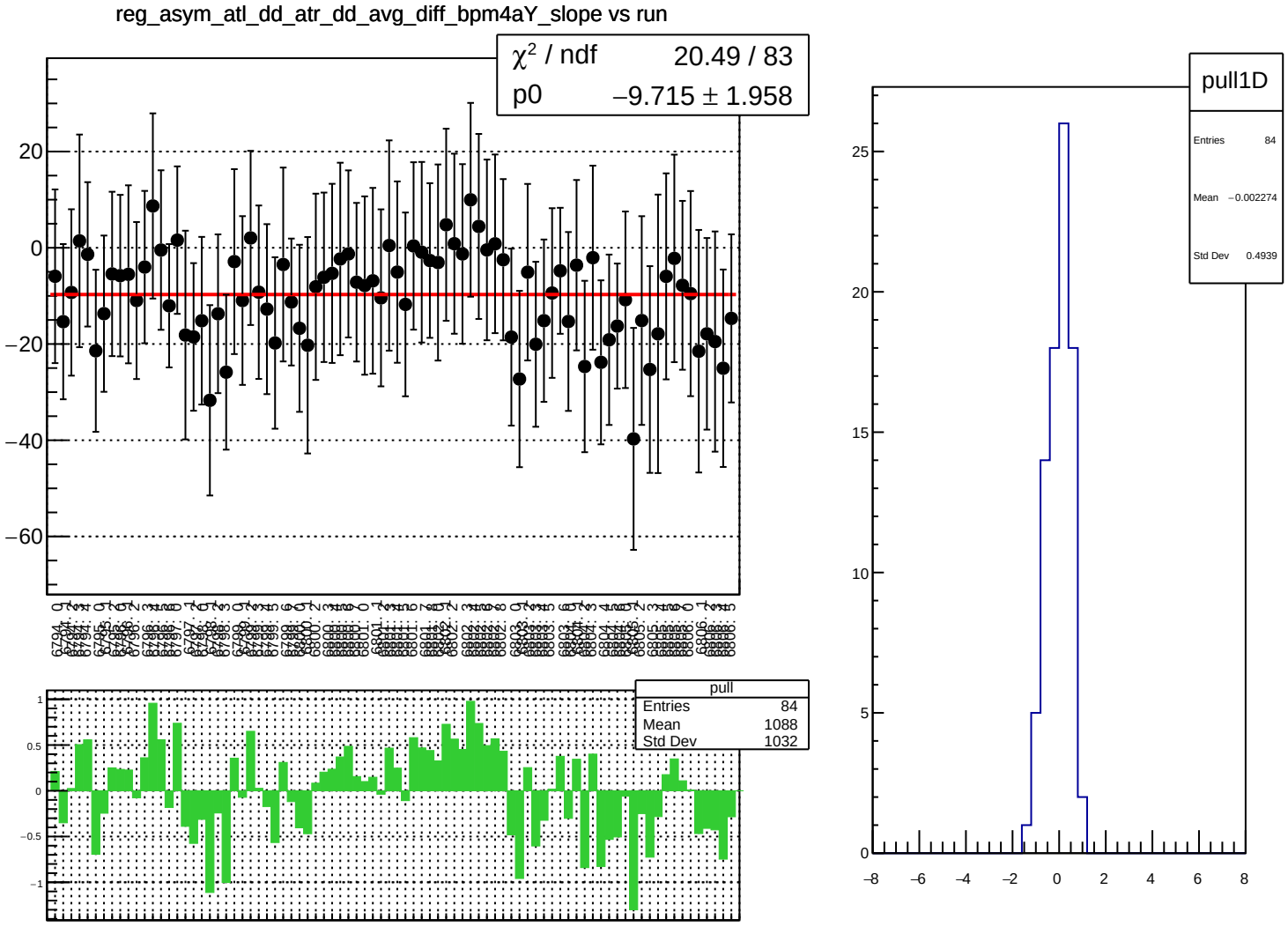

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.83 / 83
p0 −61.87 ± 3.092
pull
Entries 84
Mean 5.658e+04
Std Dev 5.652e+04

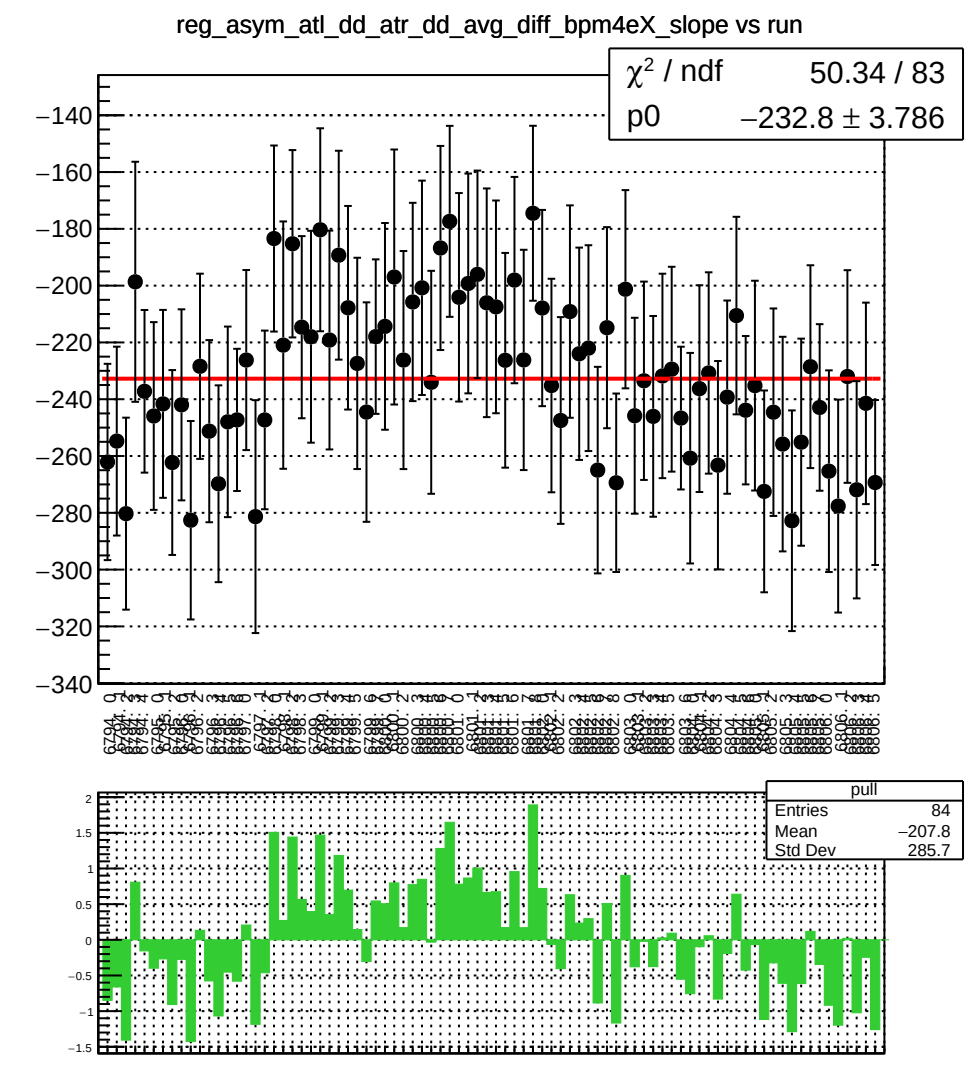

pull1D
Entries 84
Mean 3.65e−05
Std Dev 0.5214

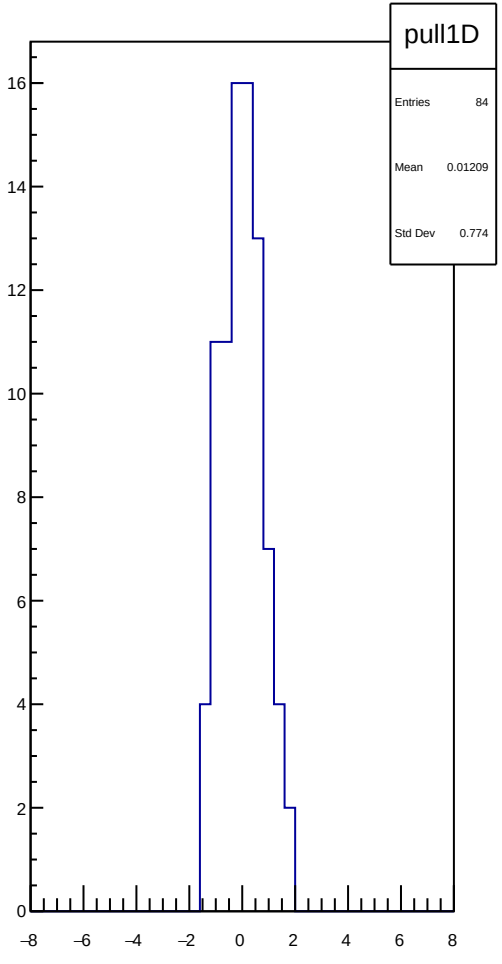

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 51.92 / 83
p0 137.3 ± 0.183
144
142
140
138
136
134
132
pull
Entries 84
Mean −84.79
Std Dev 79.49
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

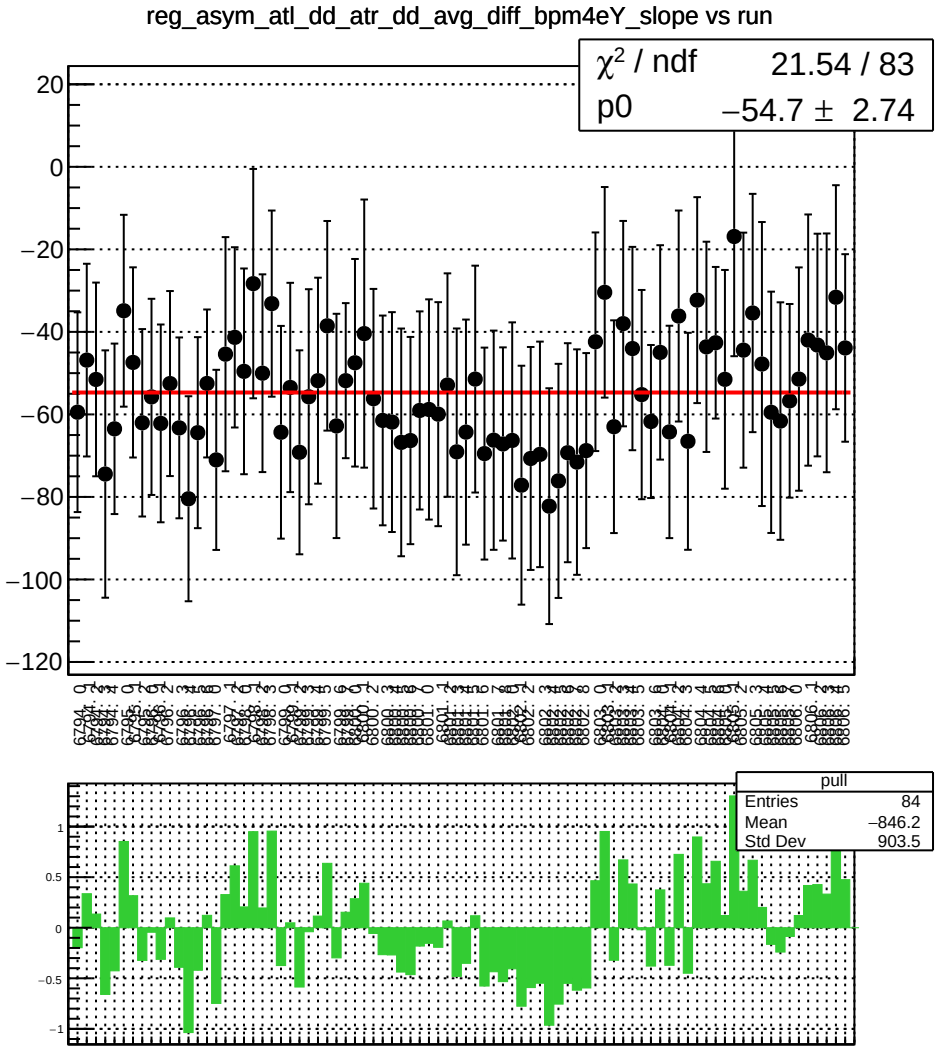

pull1D
Entries 84
Mean 0.02102
Std Dev 0.7859
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

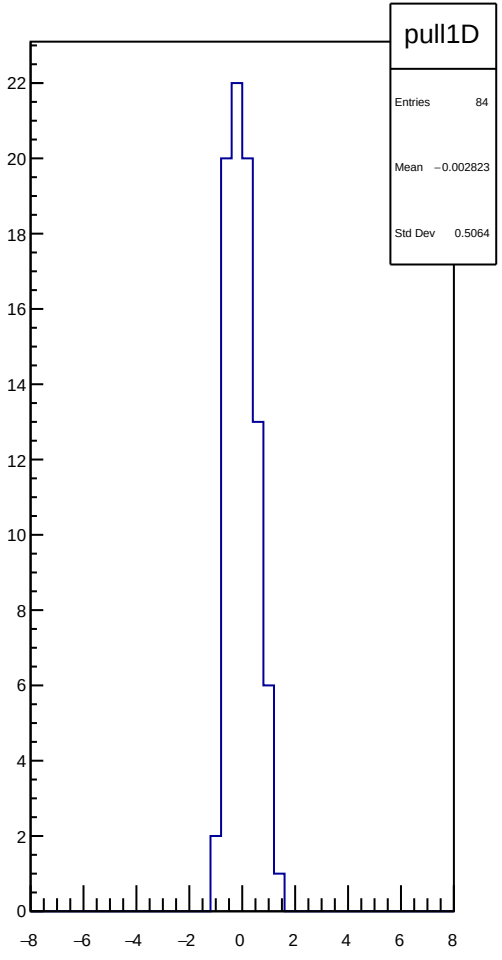

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 50.37 / 83
p0 233 ± 4.04
pull
Entries 84
Mean −233.9
Std Dev 310.4
pull1D
Entries 84
Mean −0.0114
Std Dev 0.7743

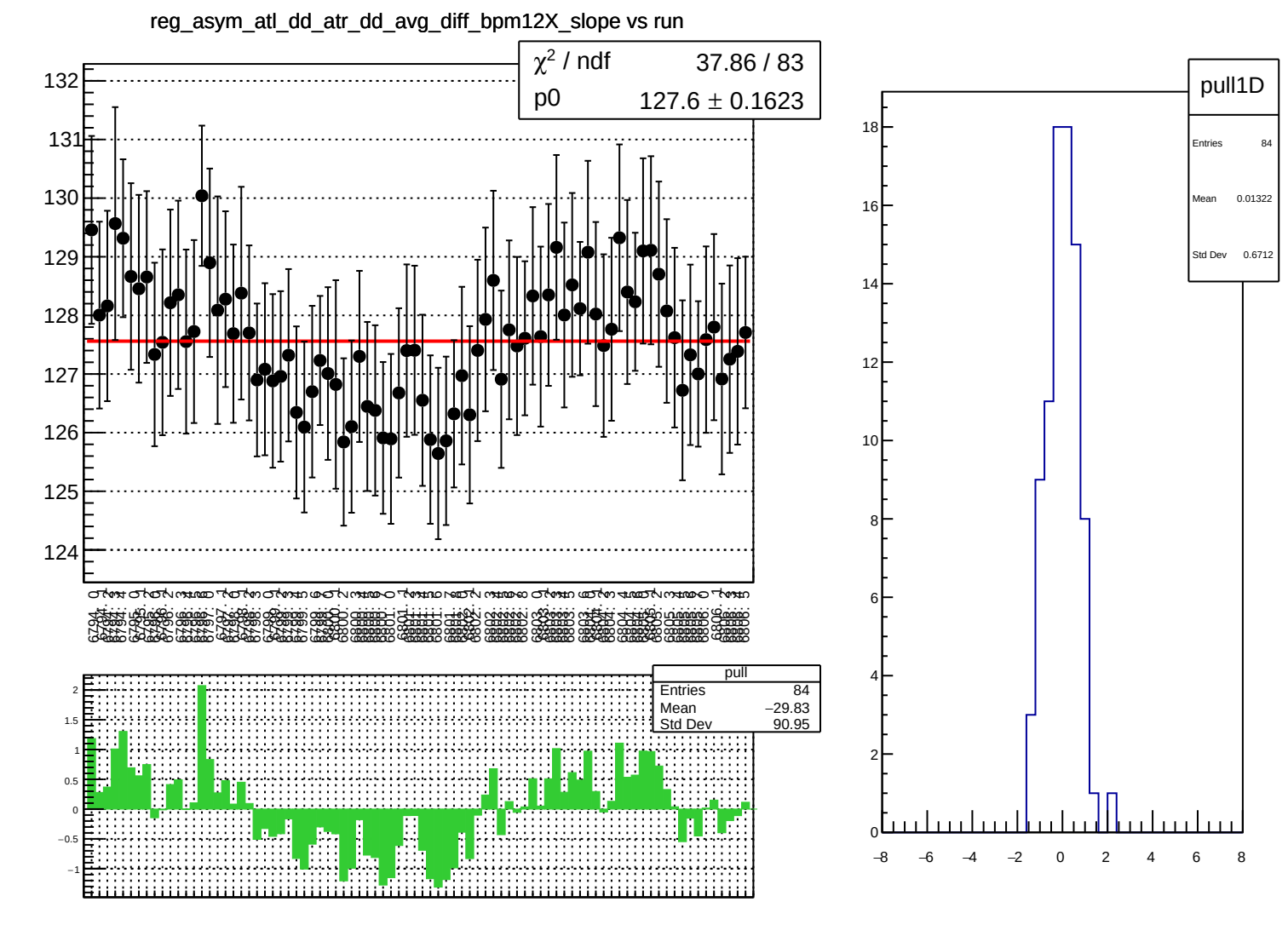

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.49 / 83
p0 −9.715 ± 1.958
pull
Entries 84
Mean 1088
Std Dev 1032
pull1D
Entries 84
Mean −0.002274
Std Dev 0.4939

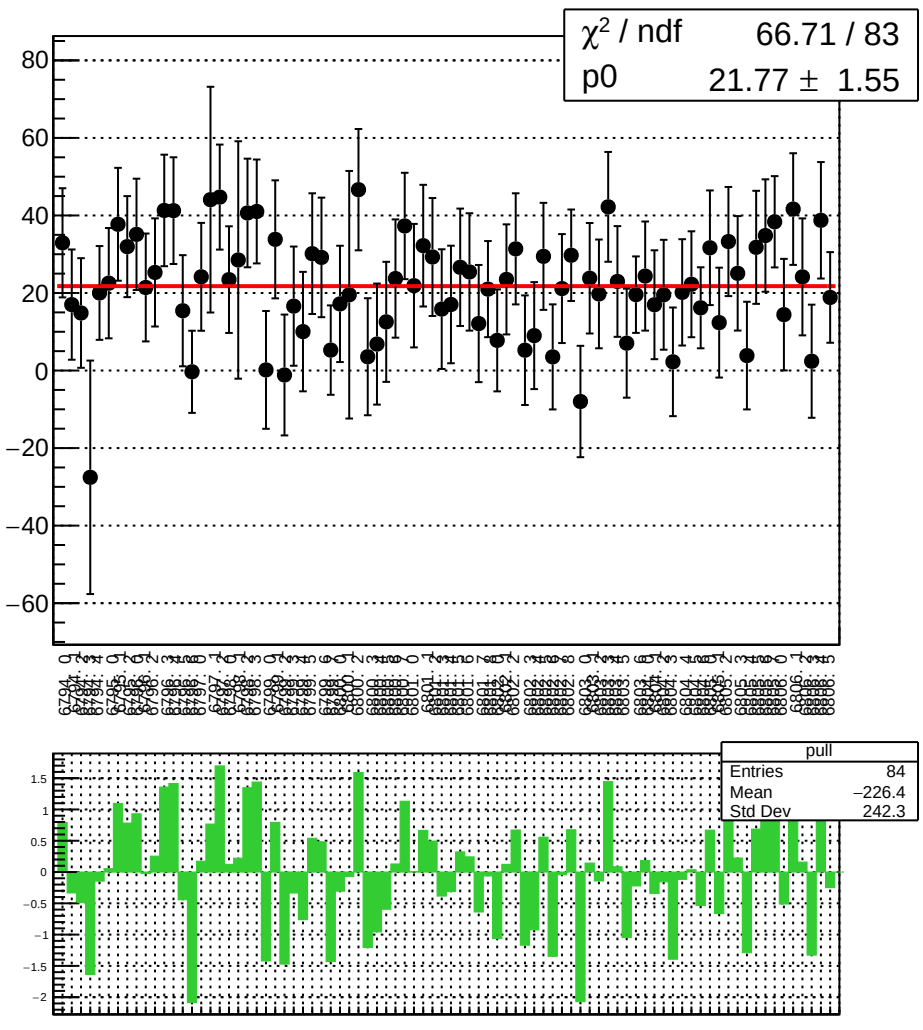

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 50.34 / 83
p0 −232.8 ± 3.786
pull
Entries 84
Mean −207.8
Std Dev 285.7

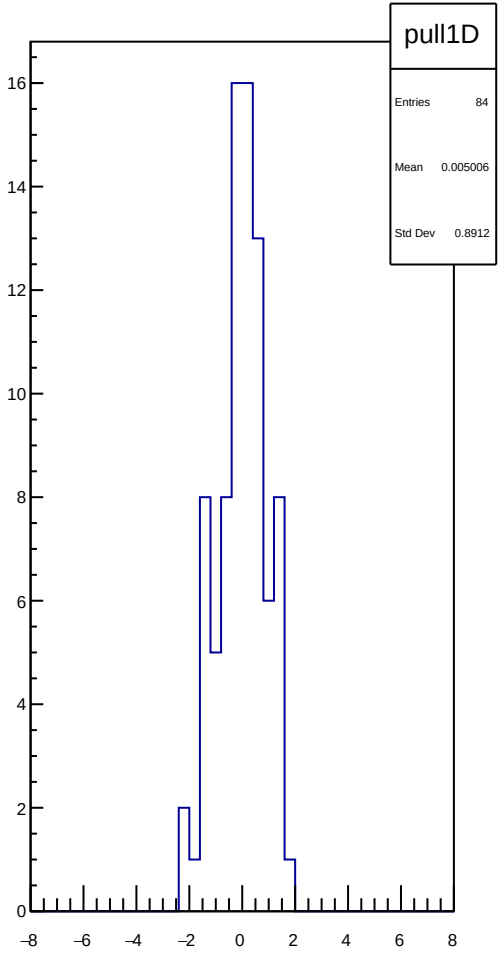

pull1D
Entries 84
Mean 0.01209
Std Dev 0.774

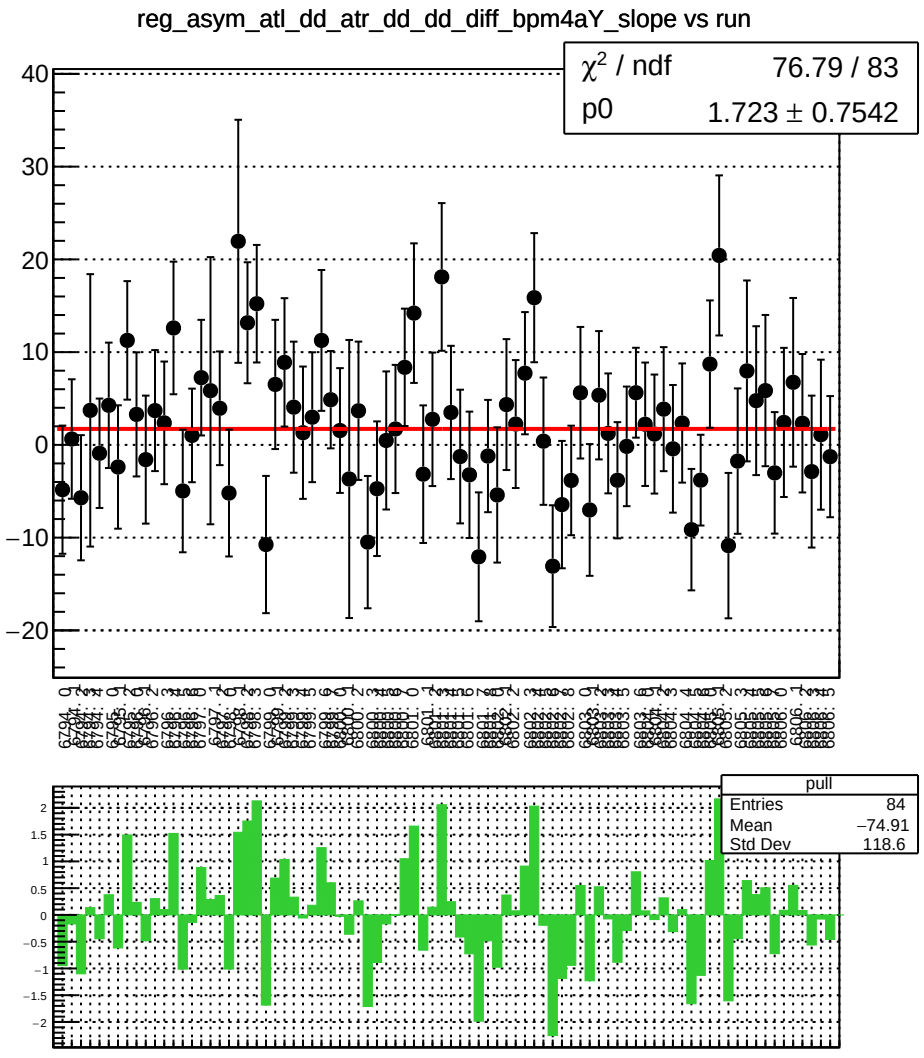

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.54 / 83
p0 −54.7 ± 2.74
pull
Entries 84
Mean −846.2
Std Dev 903.5

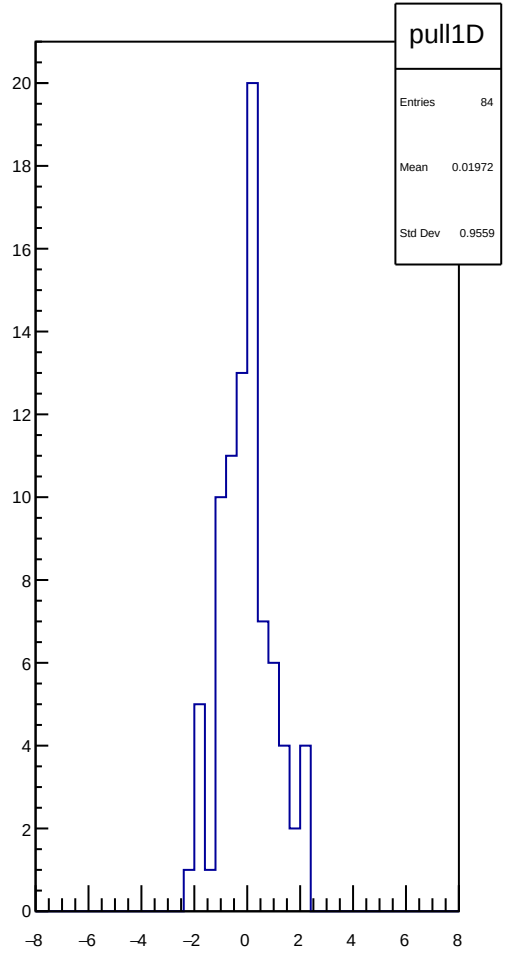

pull1D
Entries 84
Mean −0.002823
Std Dev 0.5064

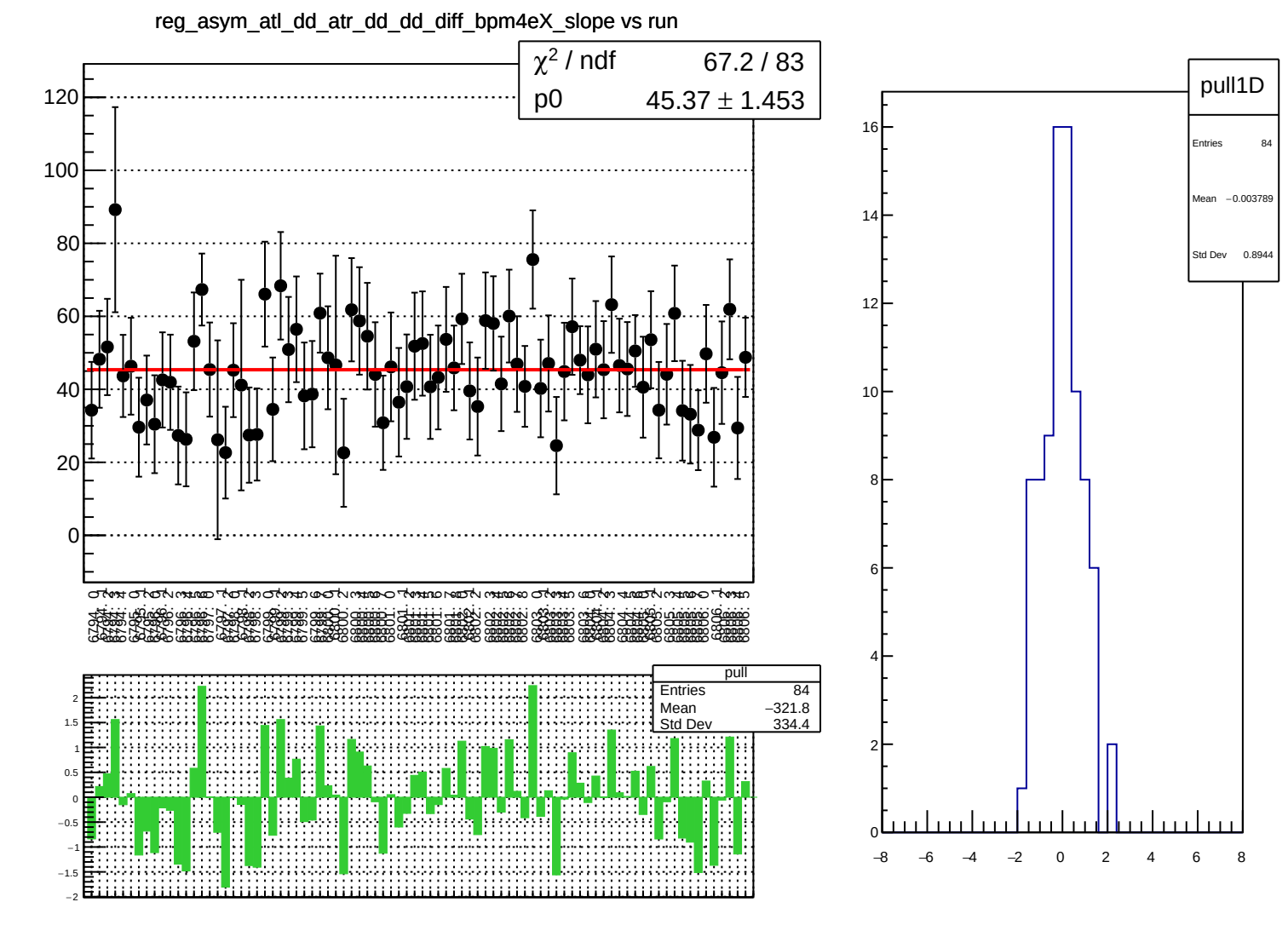

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 37.86 / 83
p0 127.6 ± 0.1623
pull
Entries 84
Mean −29.83
Std Dev 90.95
pull1D
Entries 84
Mean 0.01322
Std Dev 0.6712

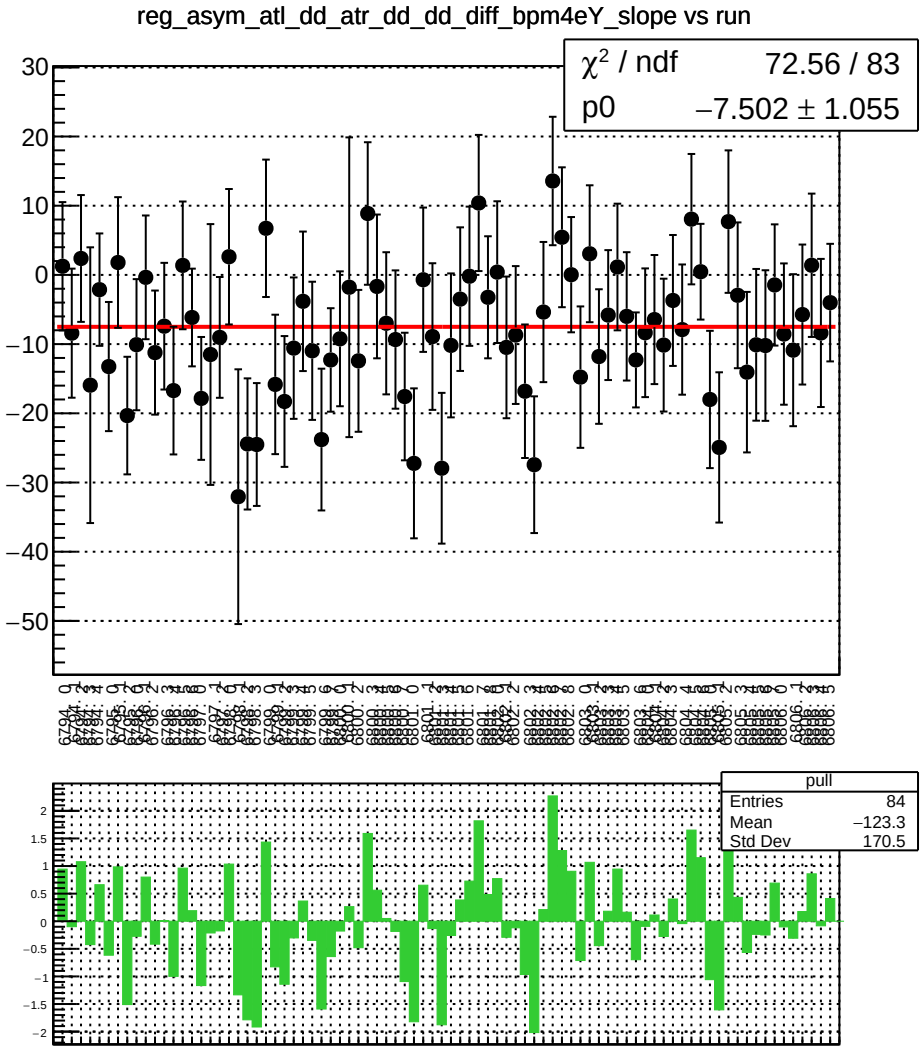

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 66.71 / 83
p0 21.77 ± 1.55
pull
Entries 84
Mean −226.4
Std Dev 242.3

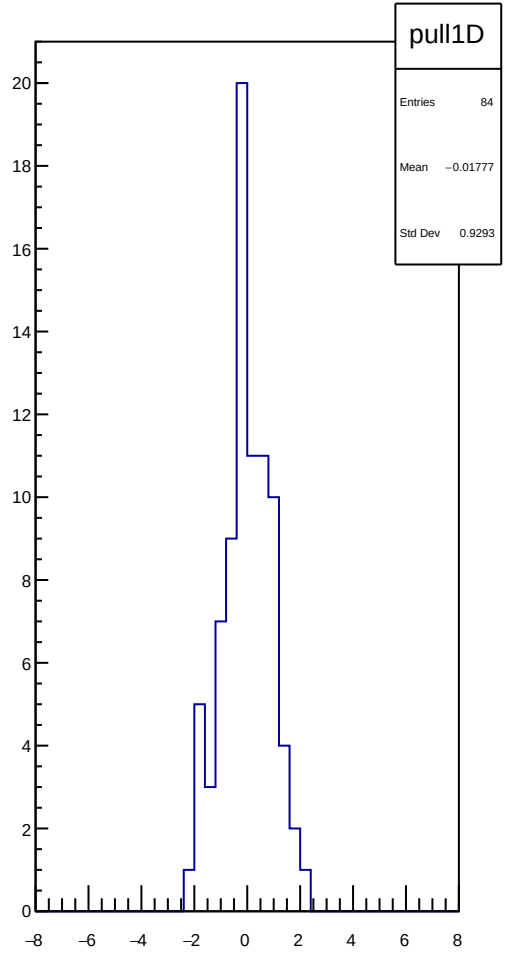

pull1D
Entries 84
Mean 0.005006
Std Dev 0.8912

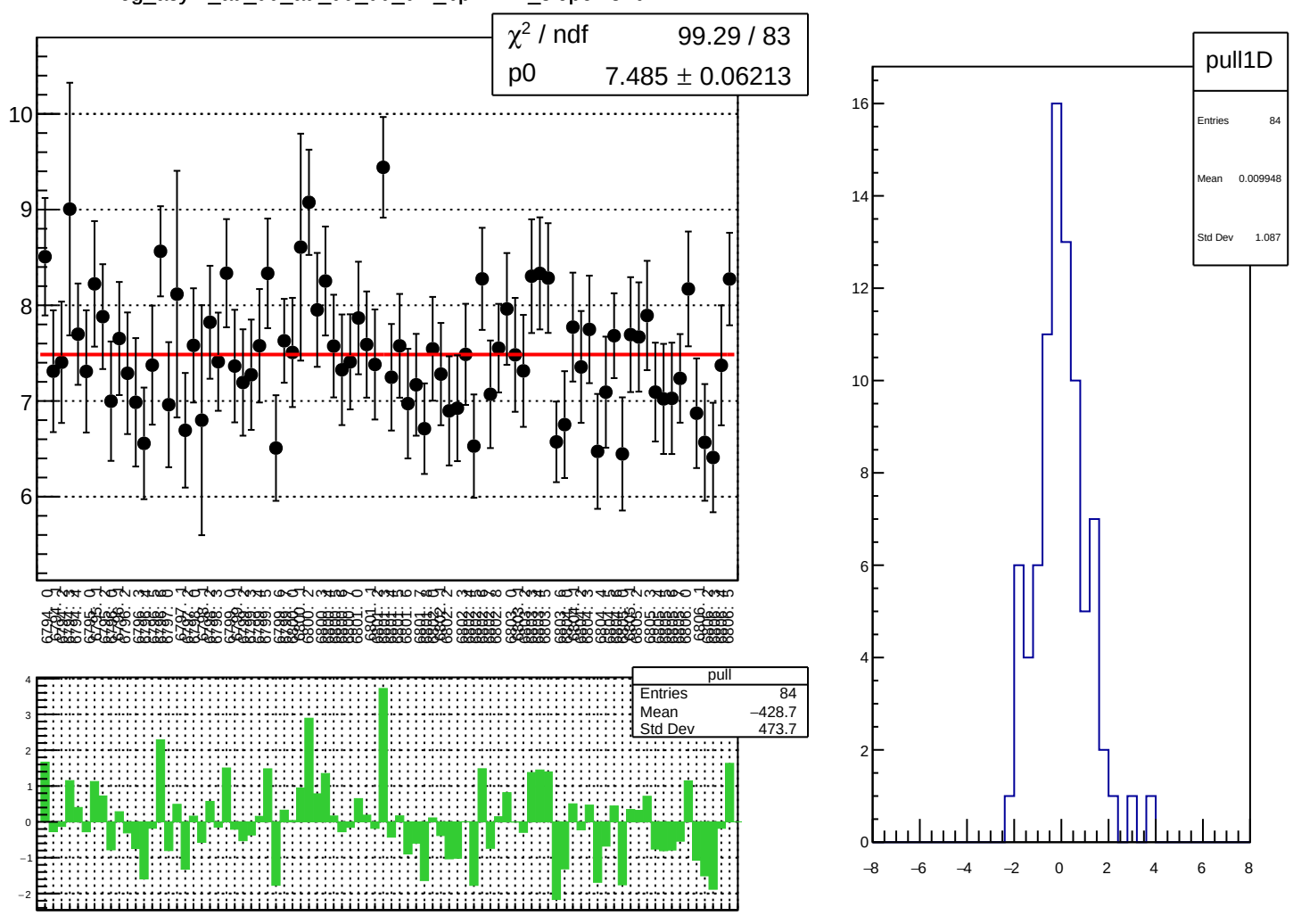

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.79 / 83
p0 1.723 ± 0.7542
pull
Entries 84
Mean −74.91
Std Dev 118.6

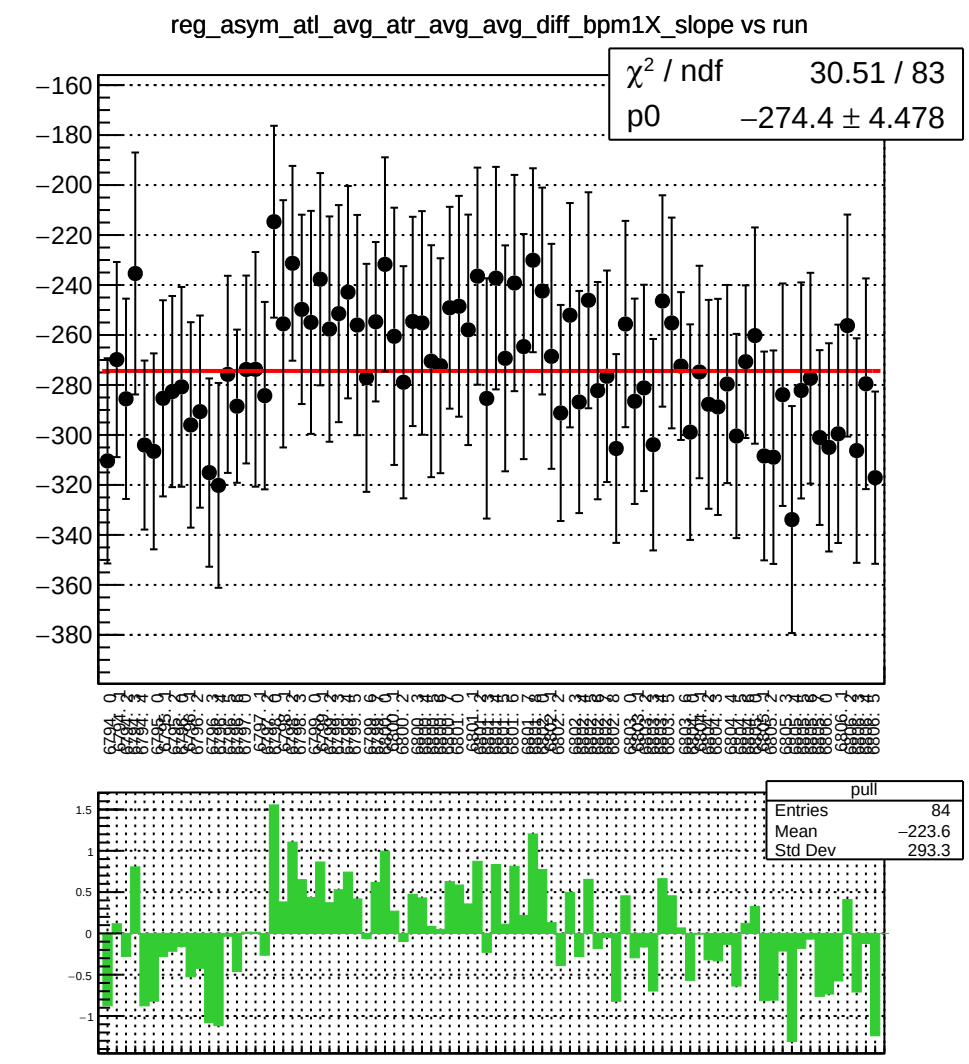

pull1D
Entries 84
Mean 0.01972
Std Dev 0.9559

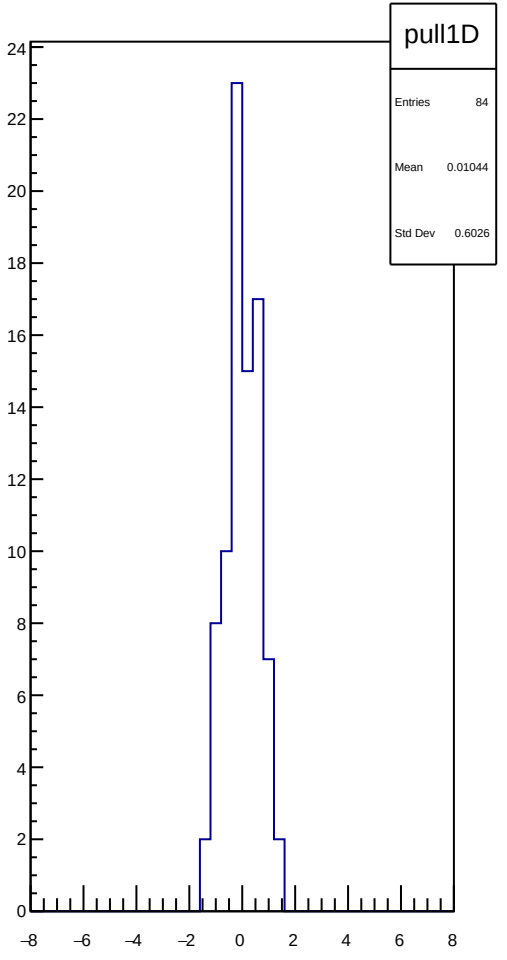

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.2 / 83
p0 45.37 ± 1.453
pull
Entries 84
Mean −321.8
Std Dev 334.4
pull1D
Entries 84
Mean −0.003789
Std Dev 0.8944

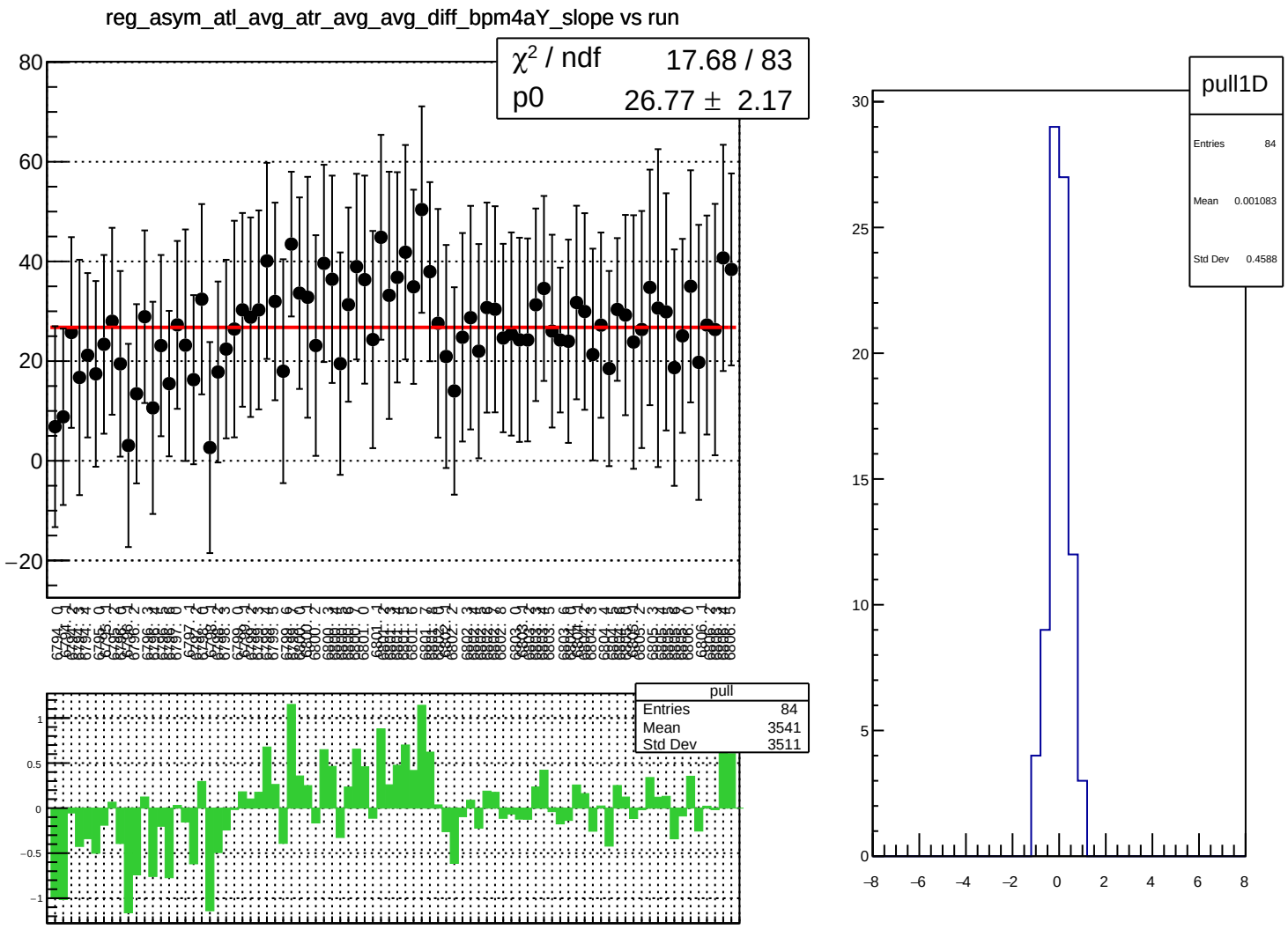

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.56 / 83
p0 −7.502 ± 1.055
pull
Entries 84
Mean −123.3
Std Dev 170.5

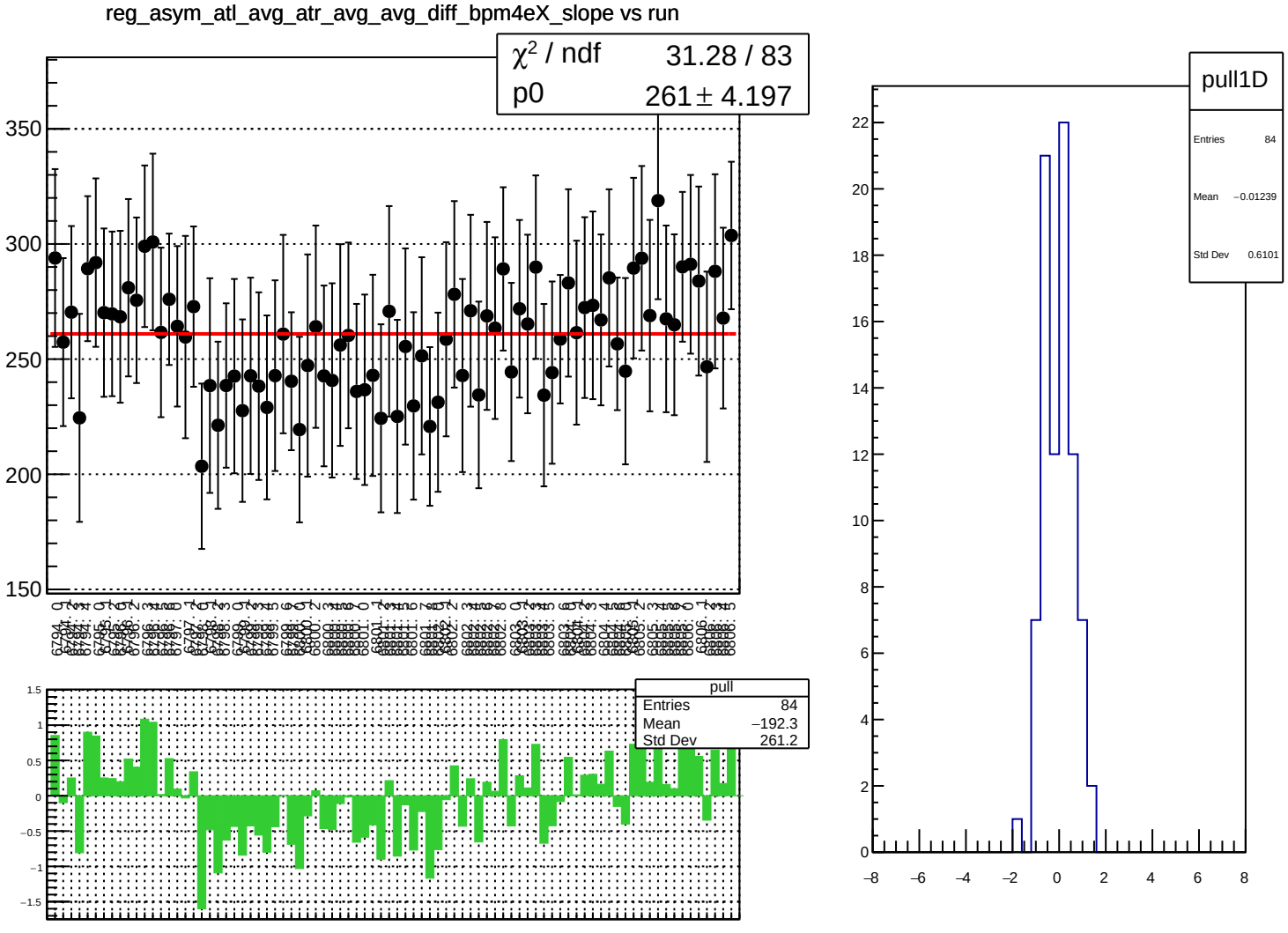

pull1D
Entries 84
Mean −0.01777
Std Dev 0.9293

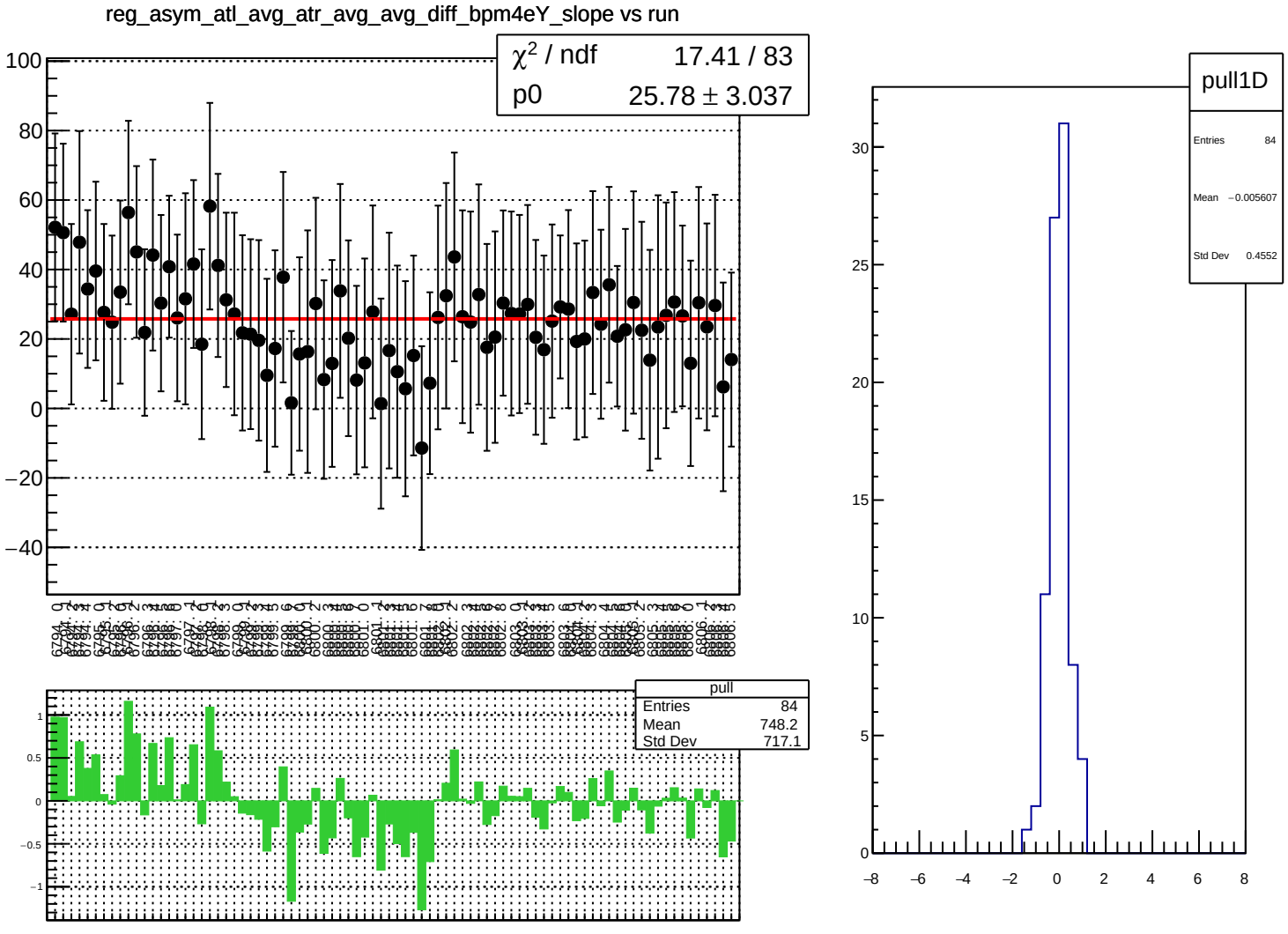

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 99.29 / 83
p0 7.485 ± 0.06213
pull
Entries 84
Mean −428.7
Std Dev 473.7
pull1D
Entries 84
Mean 0.009948
Std Dev 1.087

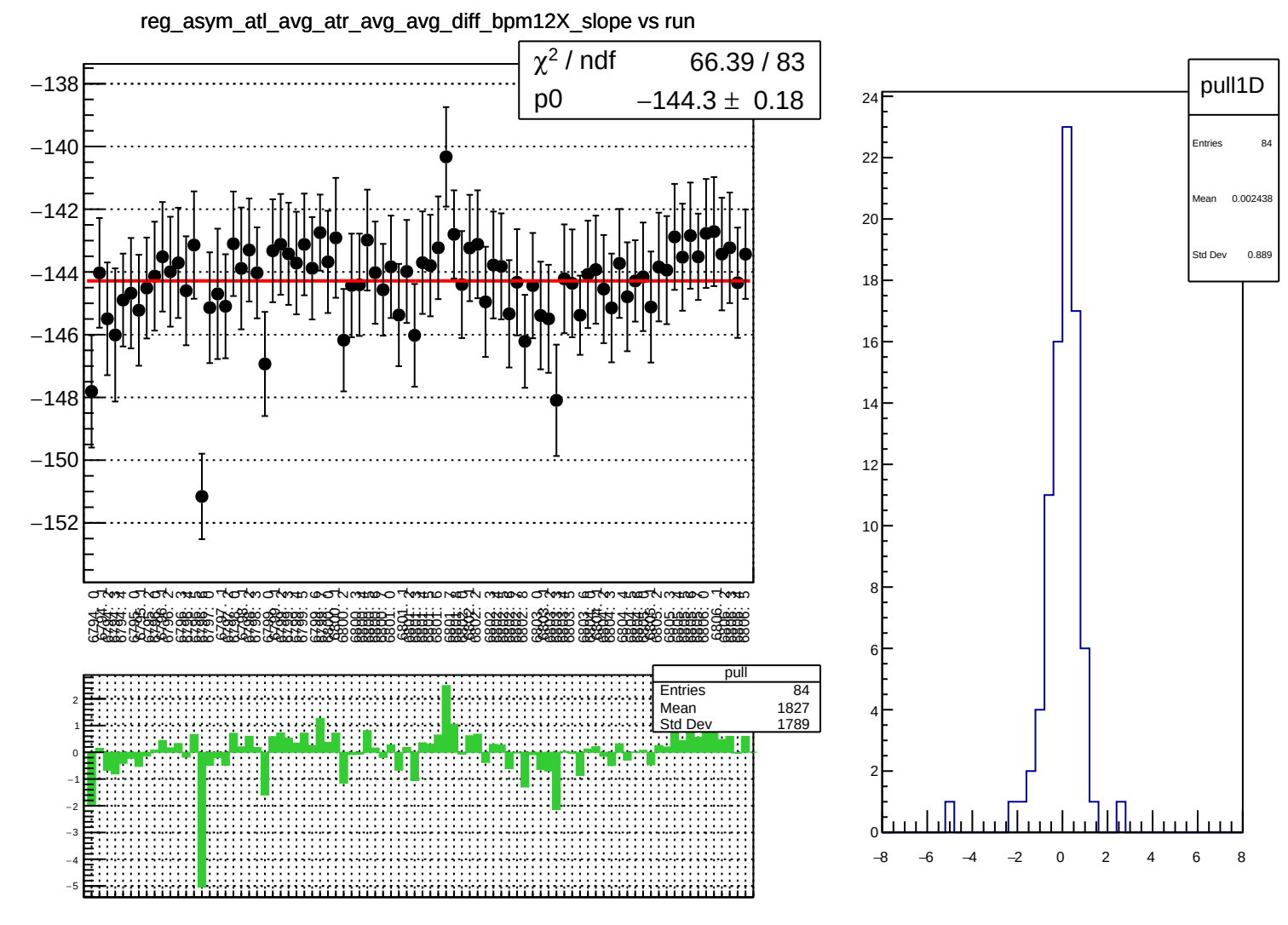

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 30.51 / 83
p0 −274.4 ± 4.478
pull
Entries 84
Mean −223.6
Std Dev 293.3

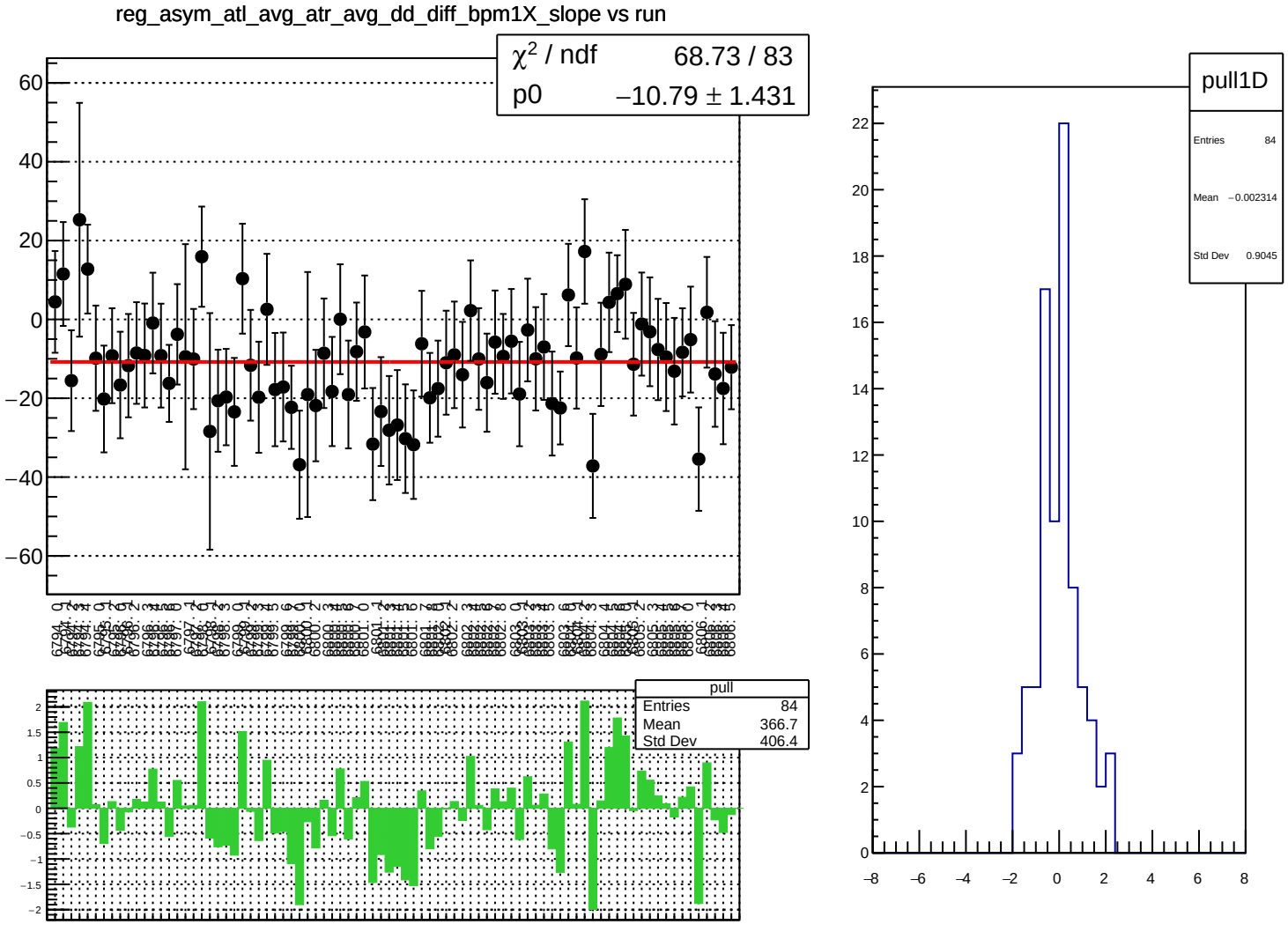

pull1D
Entries 84
Mean 0.01044
Std Dev 0.6026

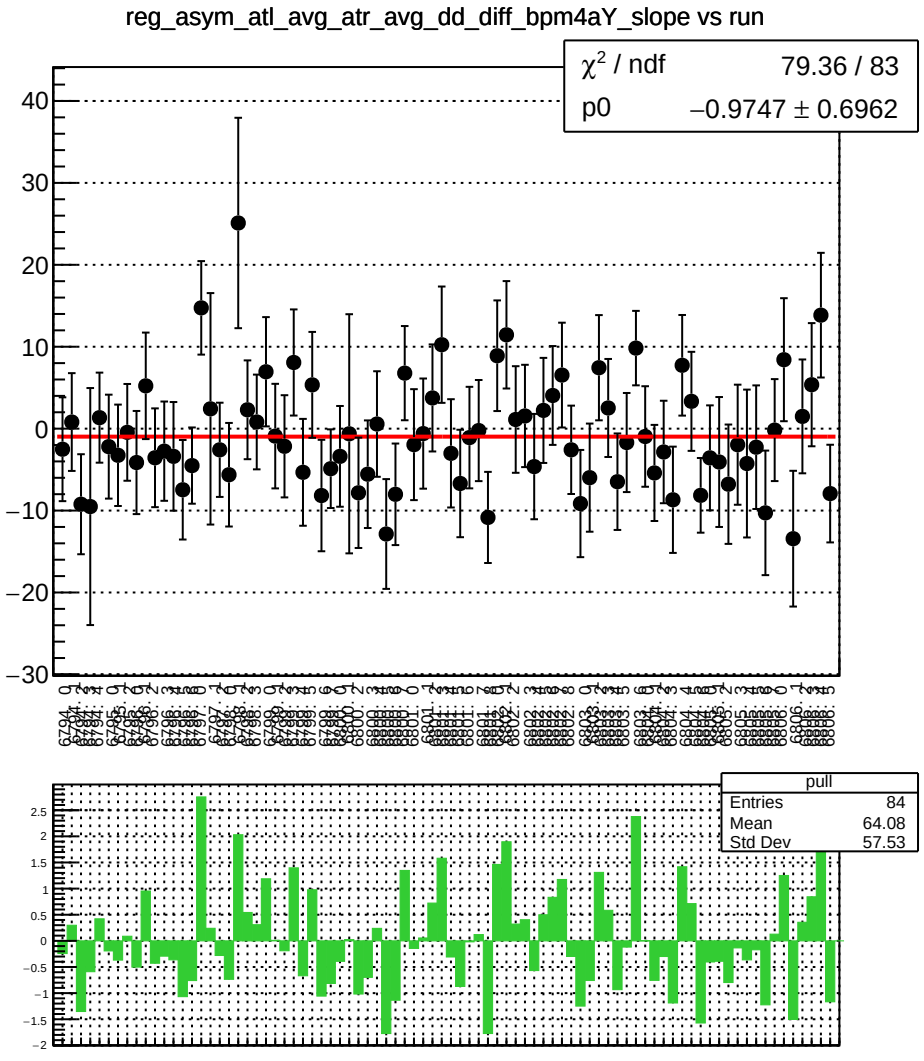

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.68 / 83
p0 26.77 ± 2.17
pull
Entries 84
Mean 3541
Std Dev 3511
pull1D
Entries 84
Mean 0.001083
Std Dev 0.4588

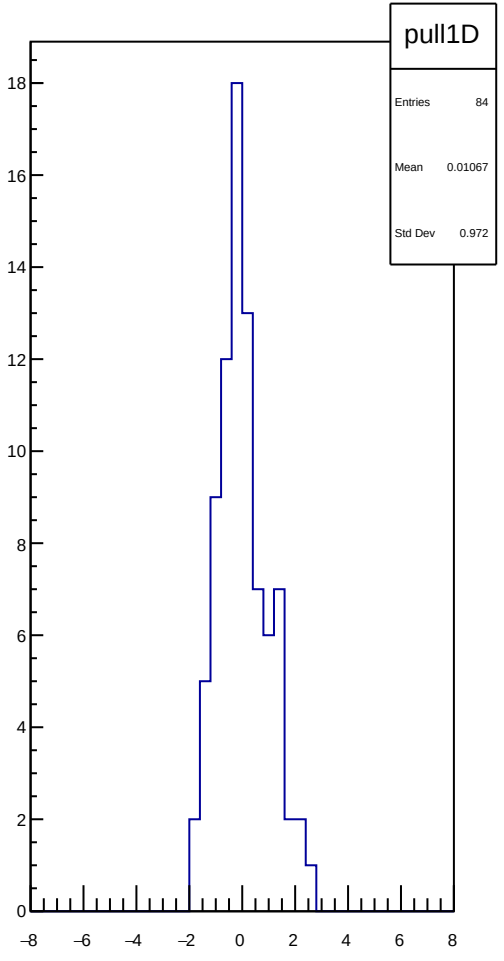

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.28 / 83
p0 261 ± 4.197
pull
Entries 84
Mean −192.3
Std Dev 261.2
pull1D
Entries 84
Mean −0.01239
Std Dev 0.6101

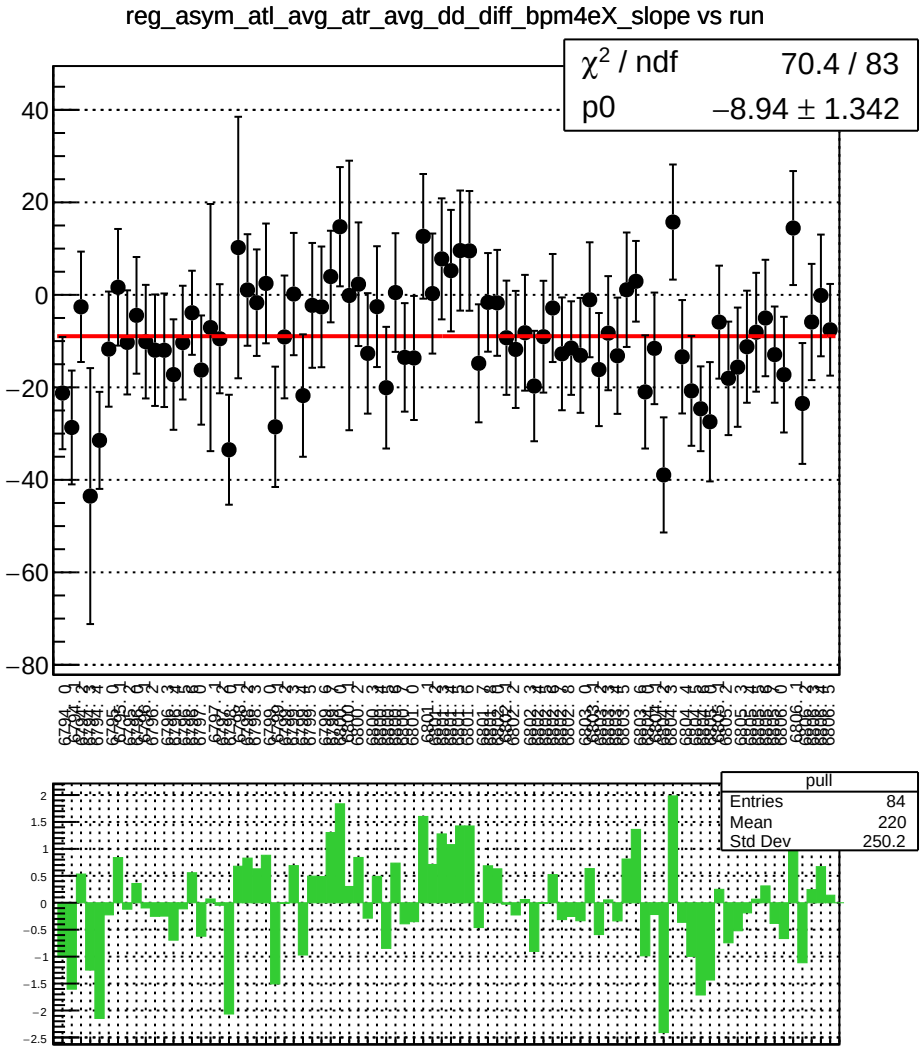

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.41 / 83
p0 25.78 ± 3.037
pull
Entries 84
Mean 748.2
Std Dev 717.1
pull1D
Entries 84
Mean −0.005607
Std Dev 0.4552

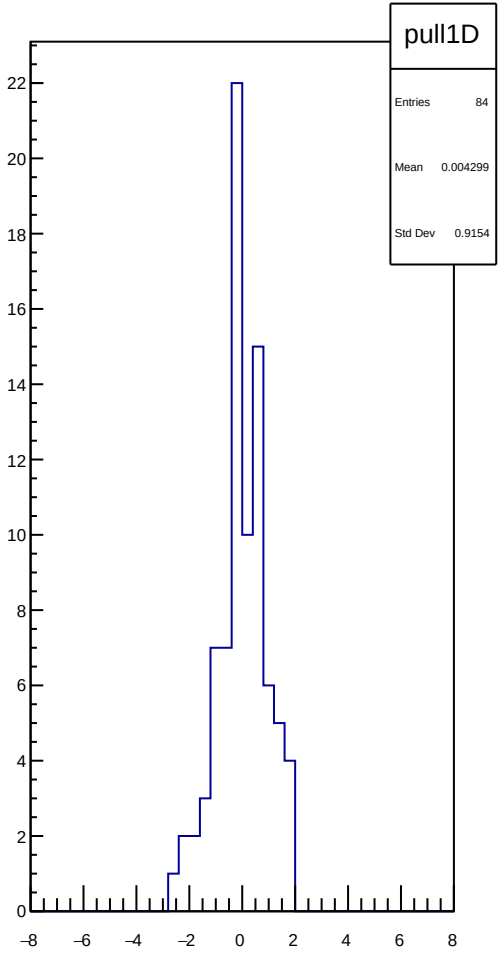

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 66.39 / 83
p0 −144.3 ± 0.18
pull
Entries 84
Mean 1827
Std Dev 1789
pull1D
Entries 84
Mean 0.002438
Std Dev 0.889

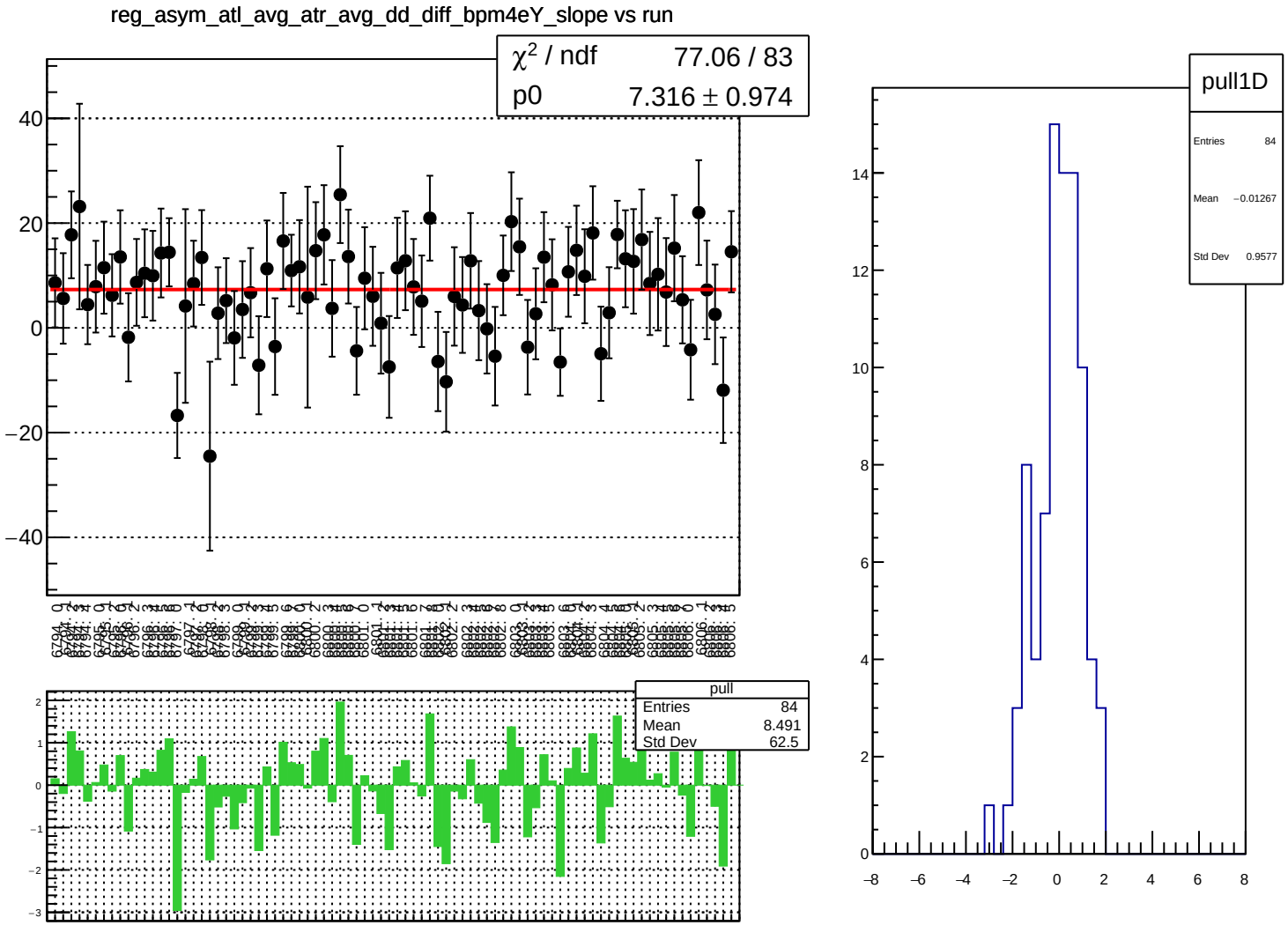

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 68.73 / 83
p0 −10.79 ± 1.431
pull
Entries 84
Mean 366.7
Std Dev 406.4
pull1D
Entries 84
Mean −0.002314
Std Dev 0.9045

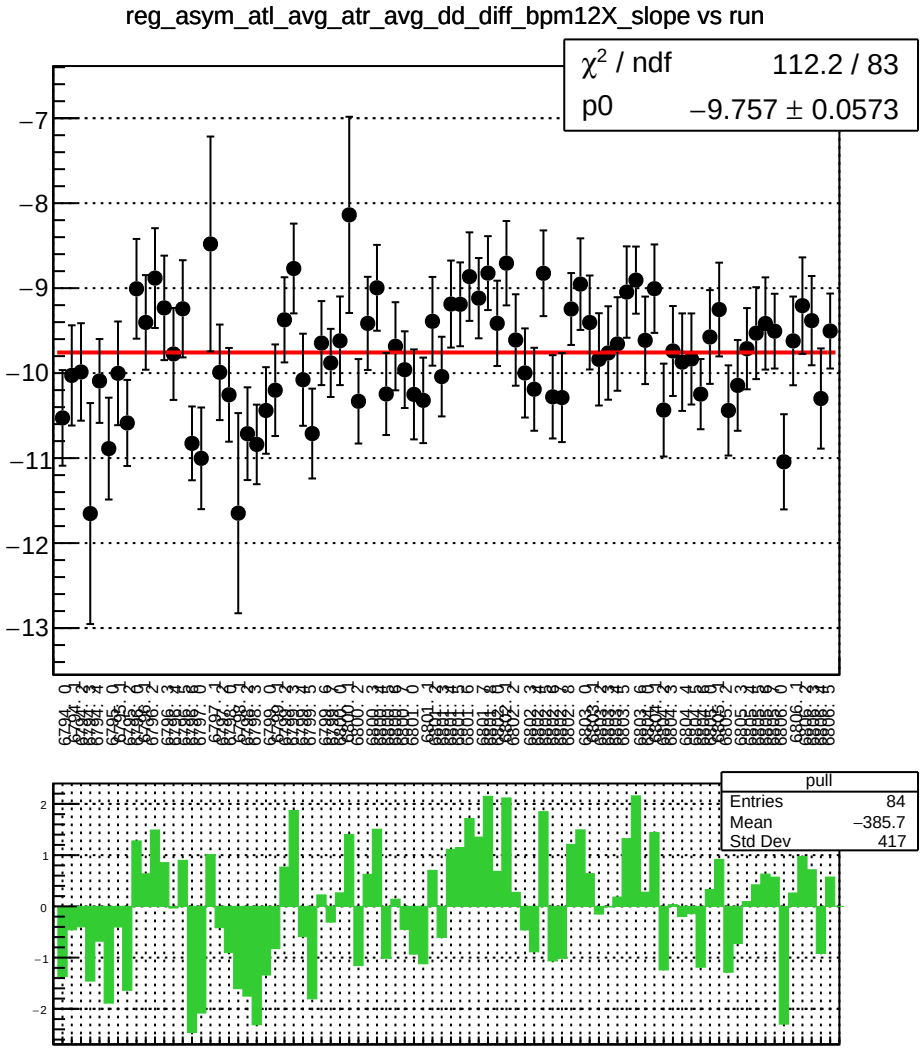

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.36 / 83
p0 −0.9747 ± 0.6962
pull
Entries 84
Mean 64.08
Std Dev 57.53

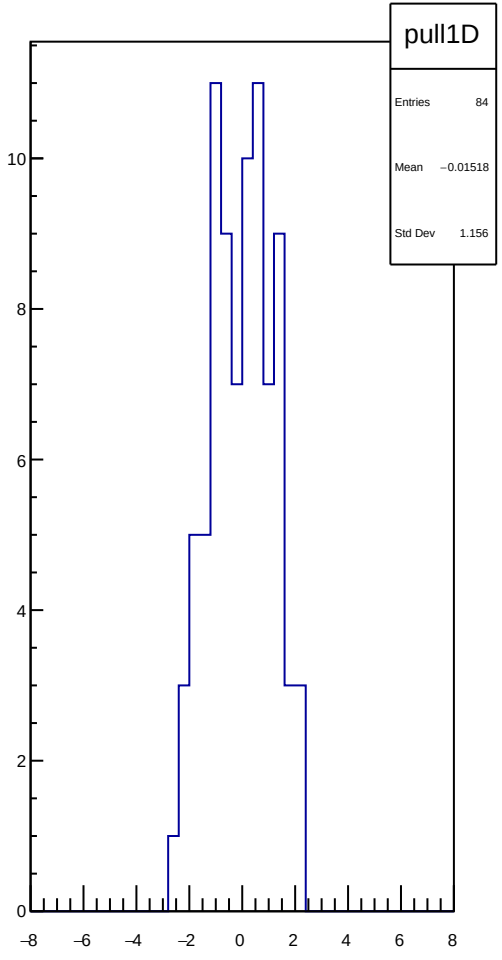

pull1D
Entries 84
Mean 0.01067
Std Dev 0.972

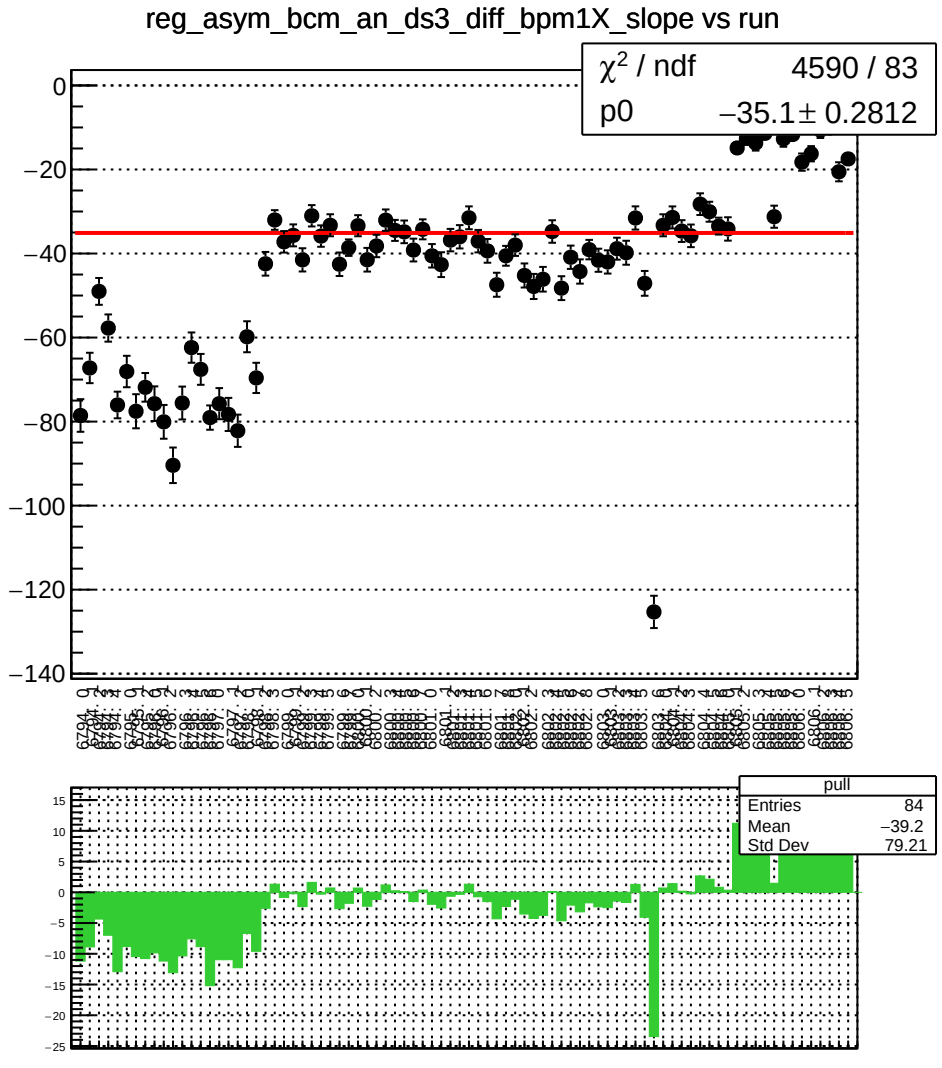

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 70.4 / 83
p0 −8.94 ± 1.342
pull
Entries 84
Mean 220
Std Dev 250.2

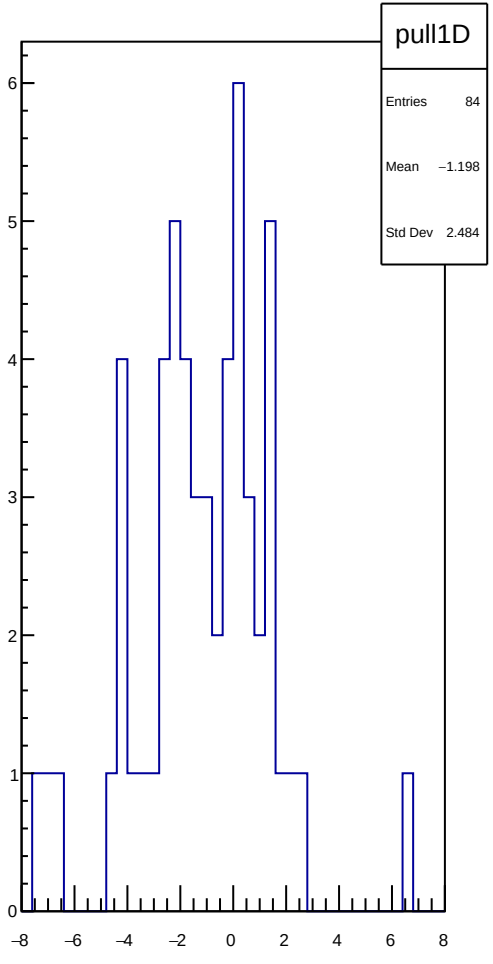

pull1D
Entries 84
Mean 0.004299
Std Dev 0.9154

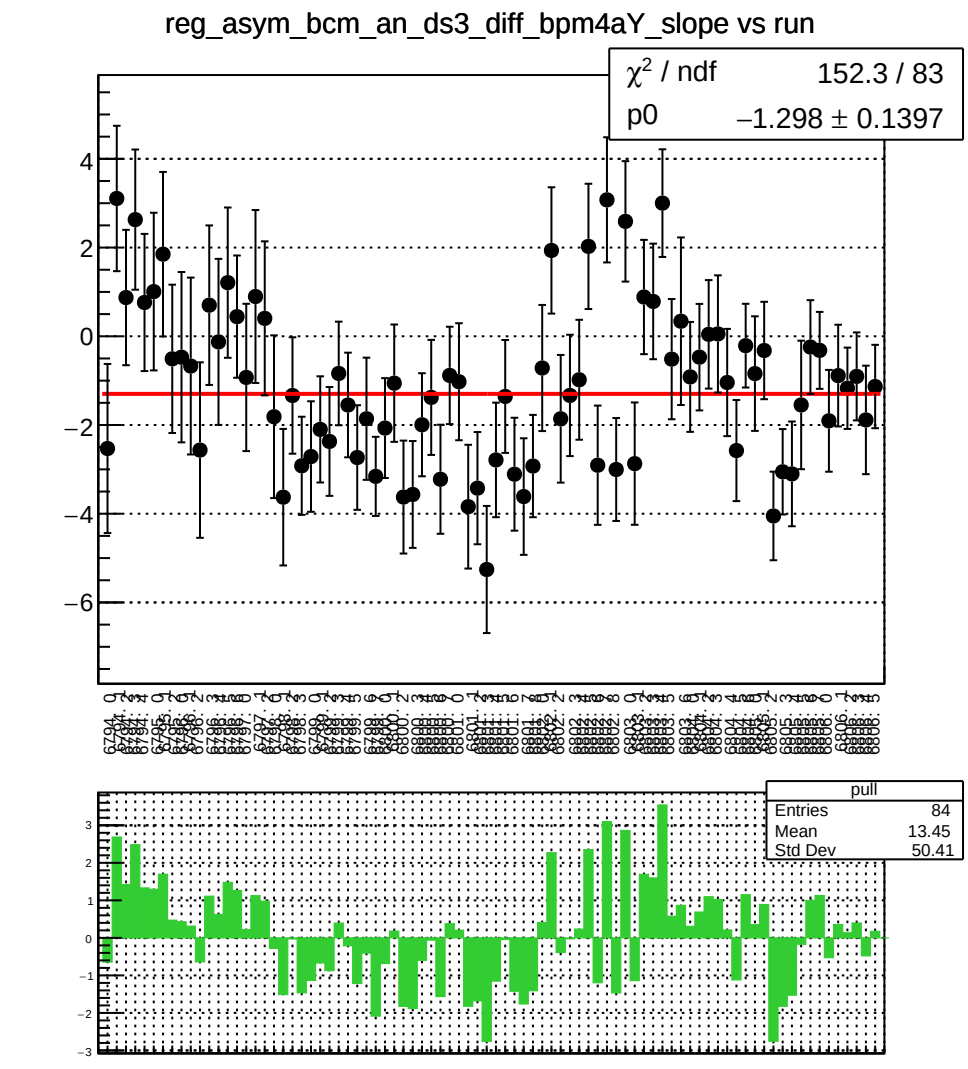

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.06 / 83
p0 7.316 ± 0.974
pull
Entries 84
Mean 8.491
Std Dev 62.5
pull1D
Entries 84
Mean −0.01267
Std Dev 0.9577

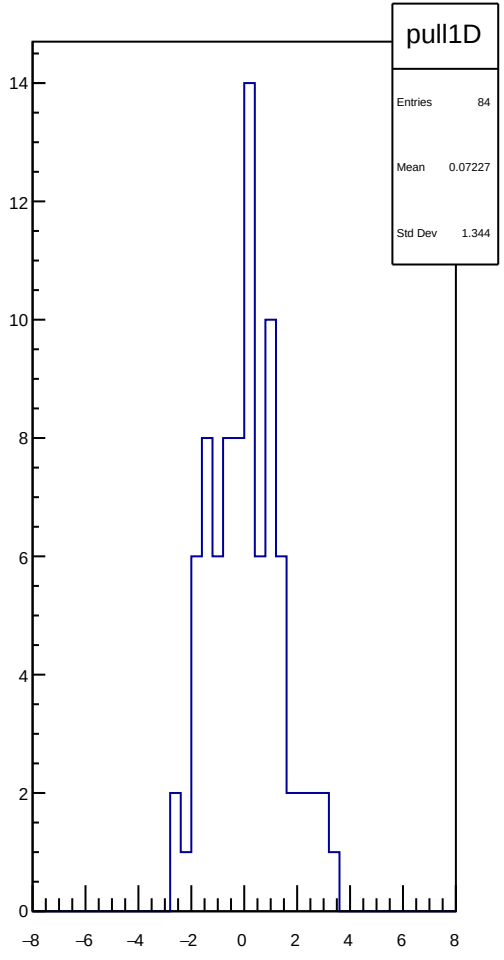

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 112.2 / 83
p0 −9.757 ± 0.0573
pull
Entries 84
Mean −385.7
Std Dev 417

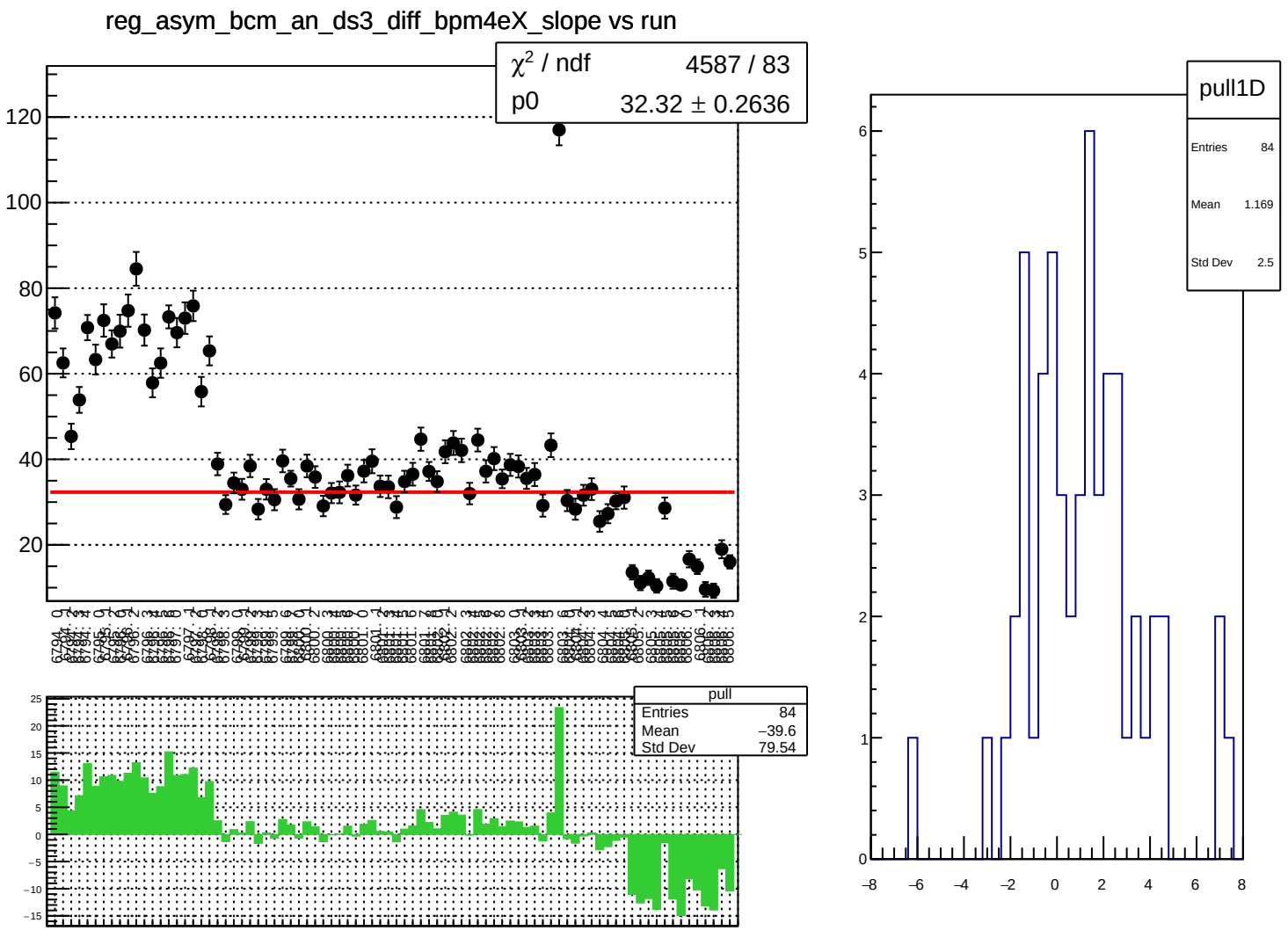

pull1D
Entries 84
Mean −0.01518
Std Dev 1.156

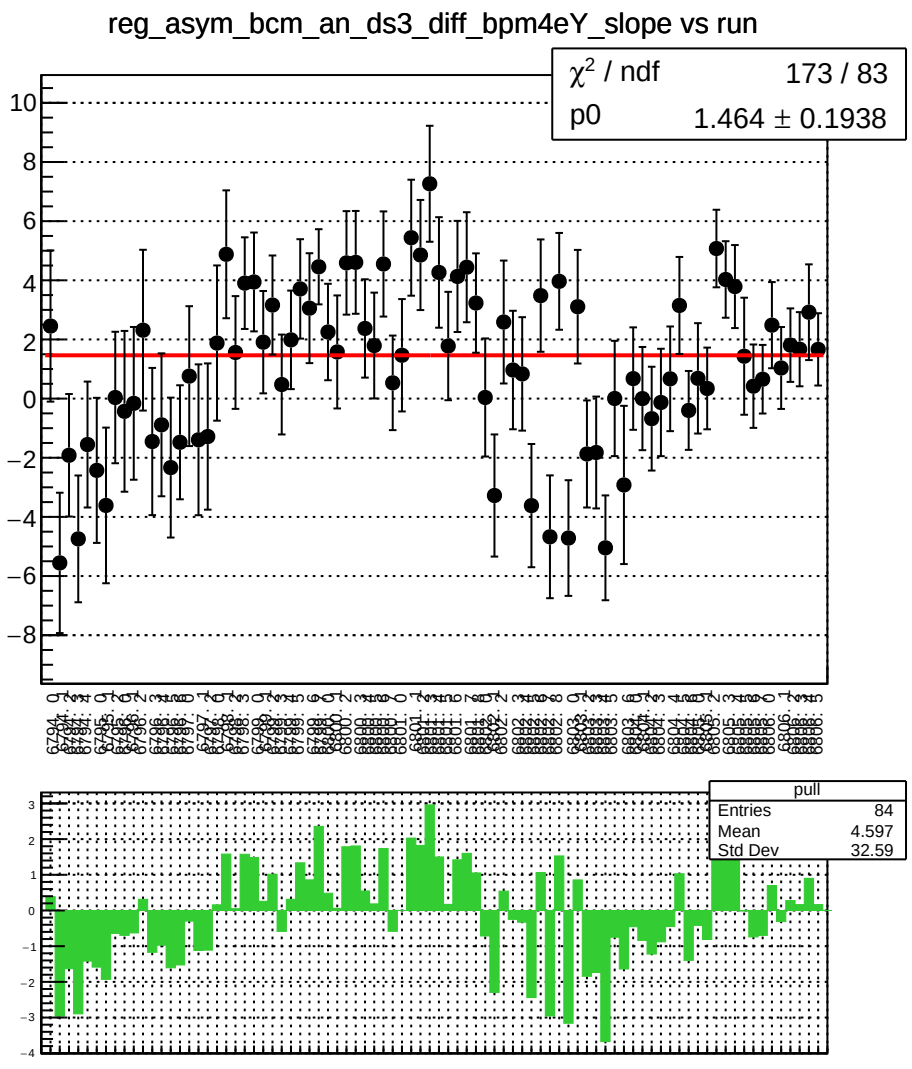

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 4590 / 83
p0 −35.1 ± 0.2812
pull
Entries 84
Mean −39.2
Std Dev 79.21

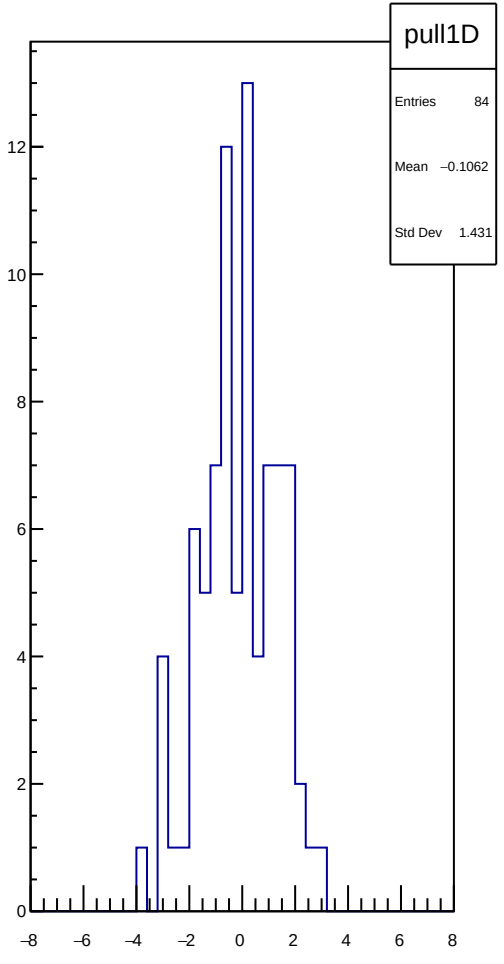

pull1D
Entries 84
Mean −1.198
Std Dev 2.484

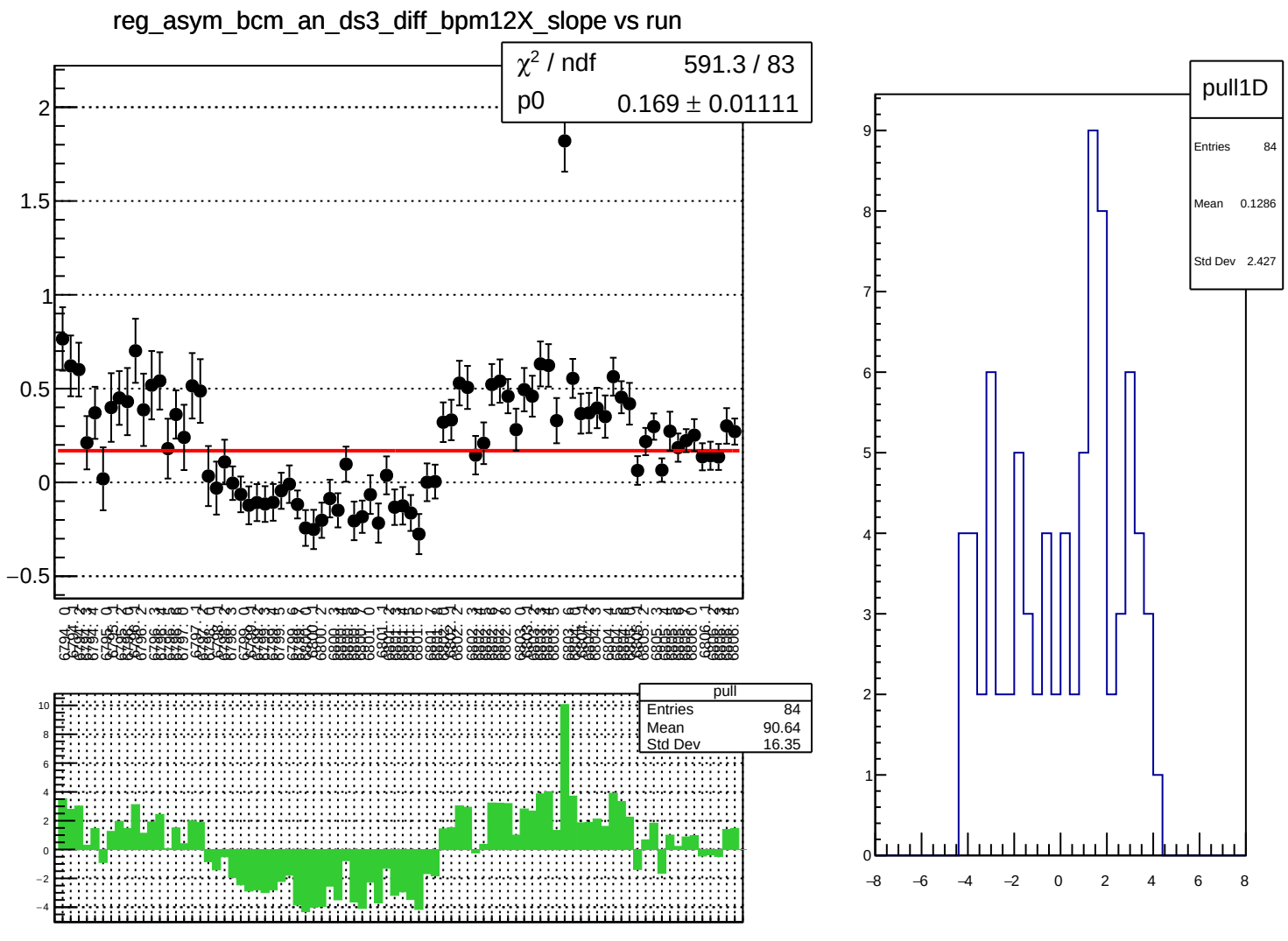

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 152.3 / 83
p0 −1.298 ± 0.1397
pull
Entries 84
Mean 13.45
Std Dev 50.41

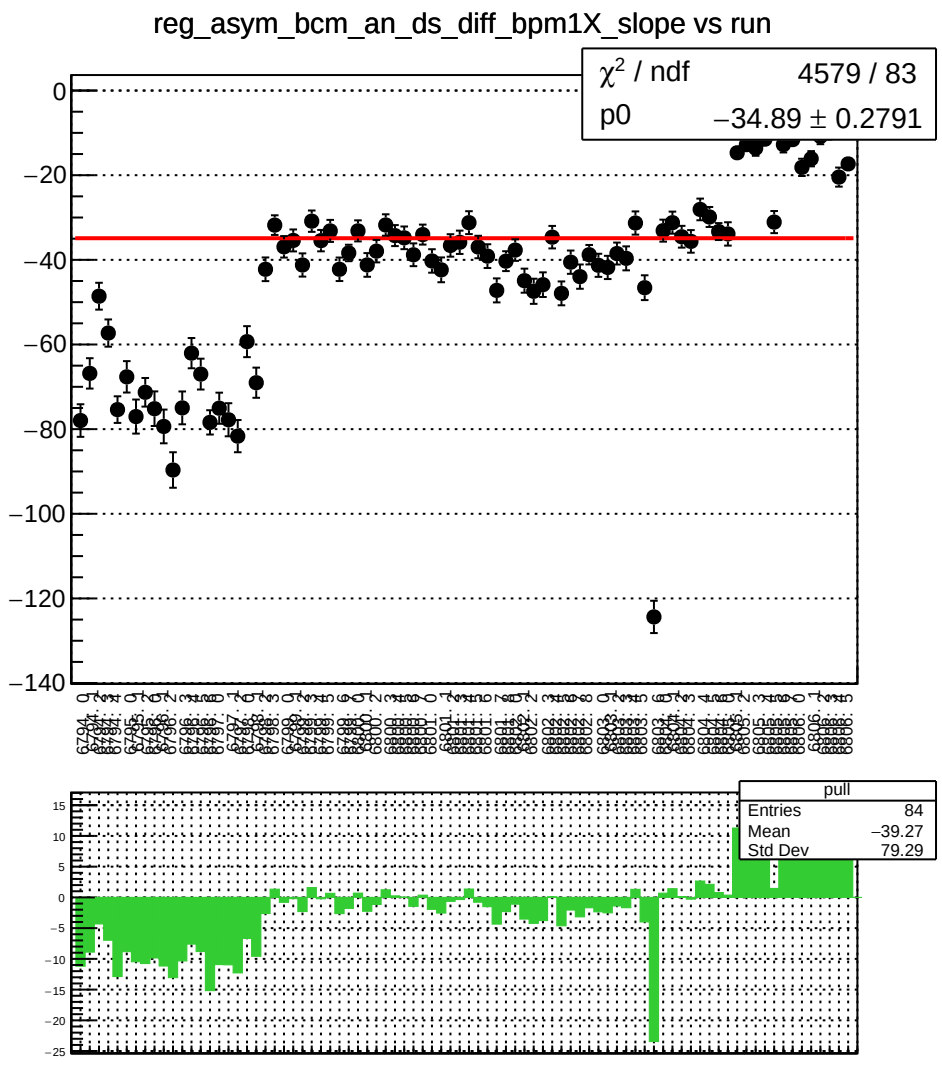

pull1D
Entries 84
Mean 0.07227
Std Dev 1.344

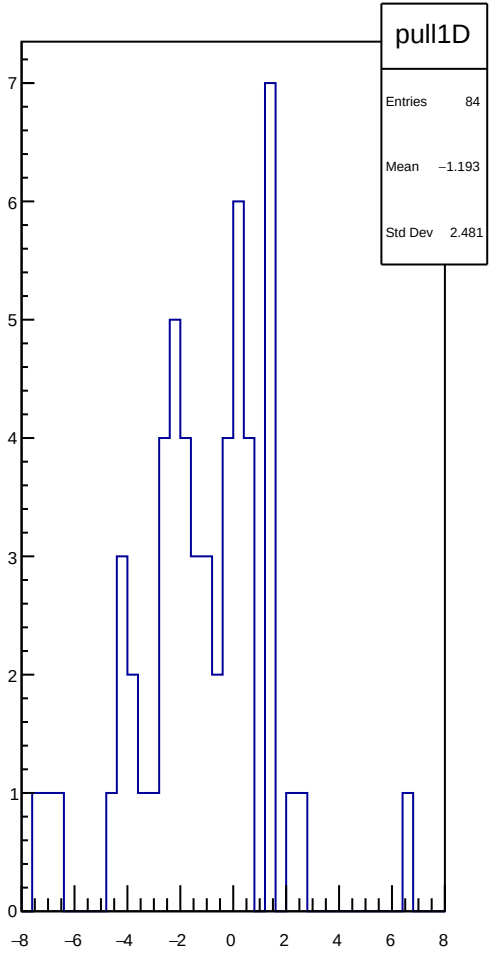

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 4587 / 83
p0 32.32 ± 0.2636
120
100
80
60
40
20
pull
Entries 84
Mean −39.6
Std Dev 79.54
25
20
15
10
5
0
−5
−10
−15
pull1D
Entries 84
Mean 1.169
Std Dev 2.5
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

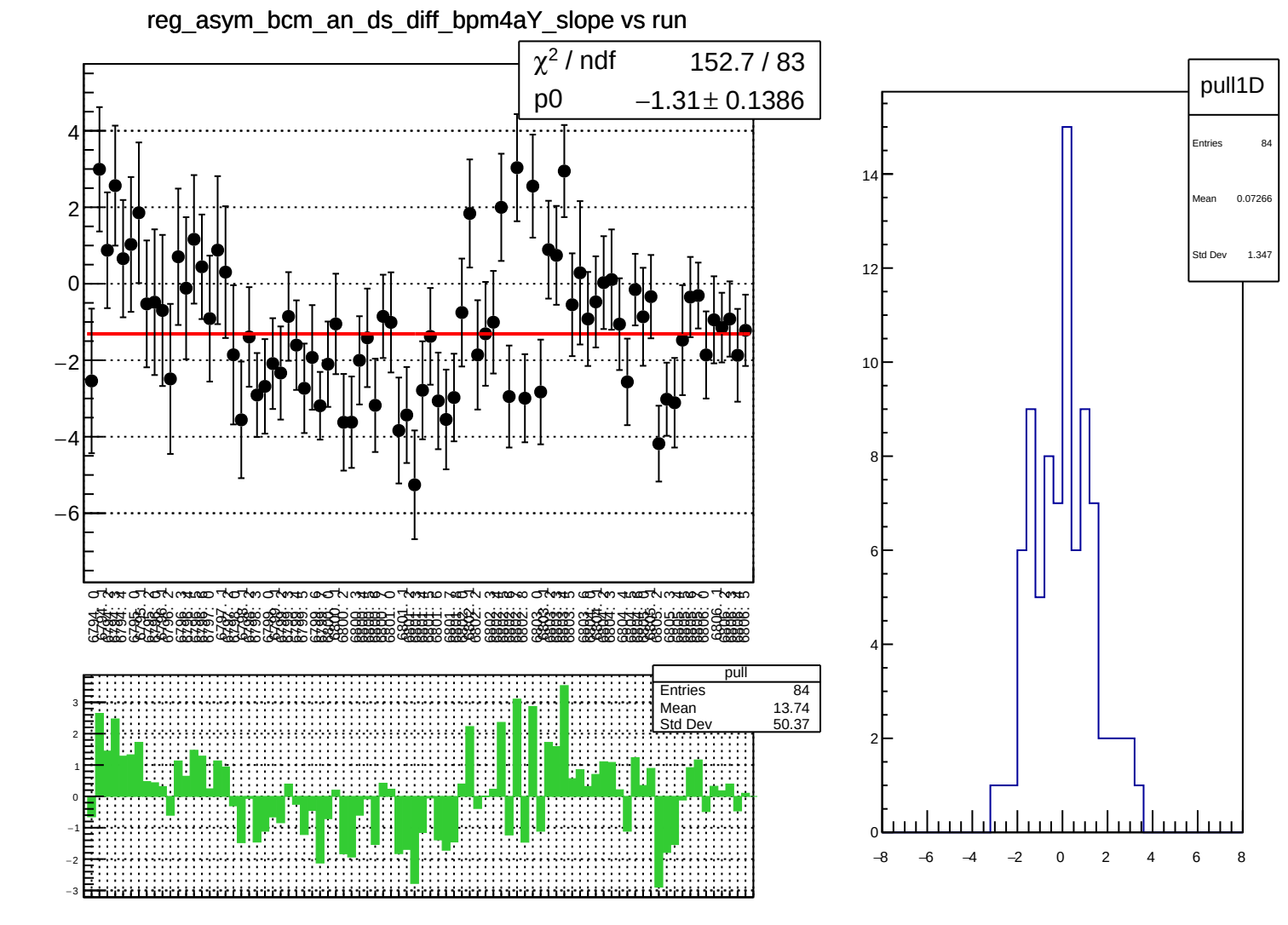

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 173 / 83
p0 1.464 ± 0.1938
pull
Entries 84
Mean 4.597
Std Dev 32.59

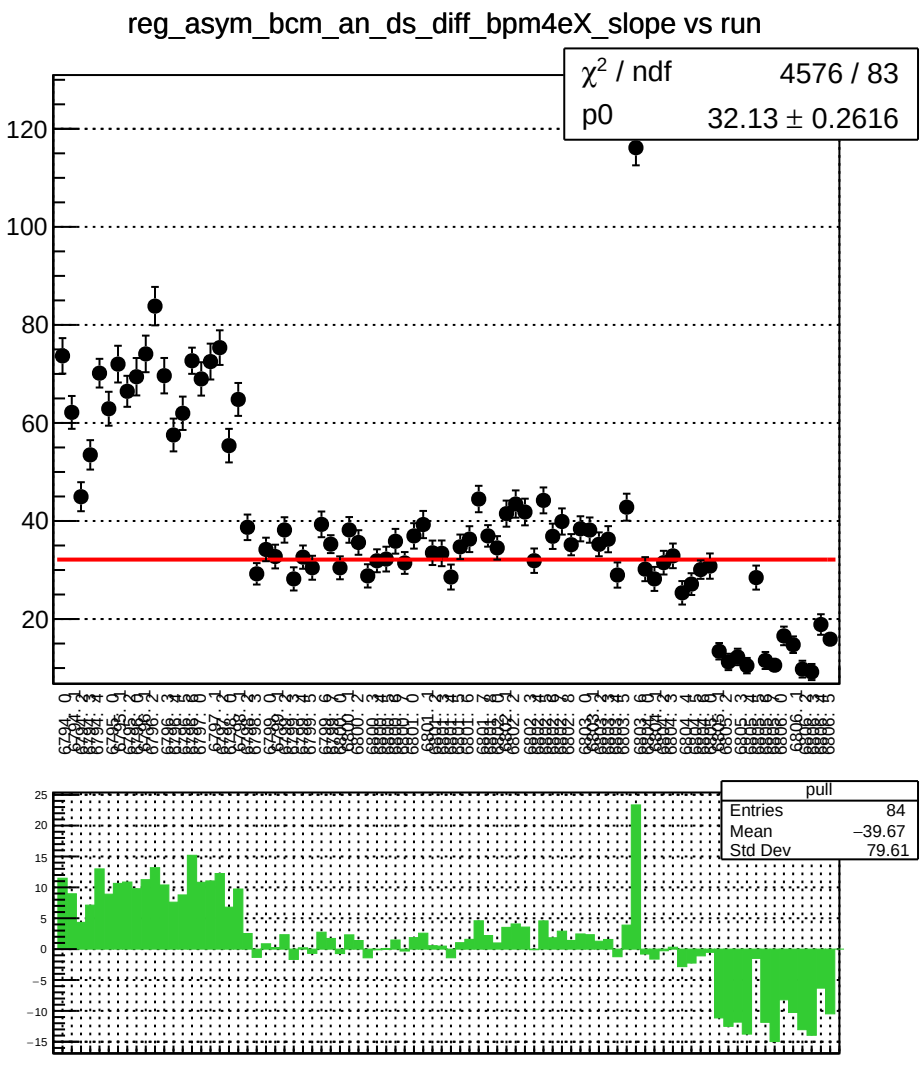

pull1D
Entries 84
Mean −0.1062
Std Dev 1.431

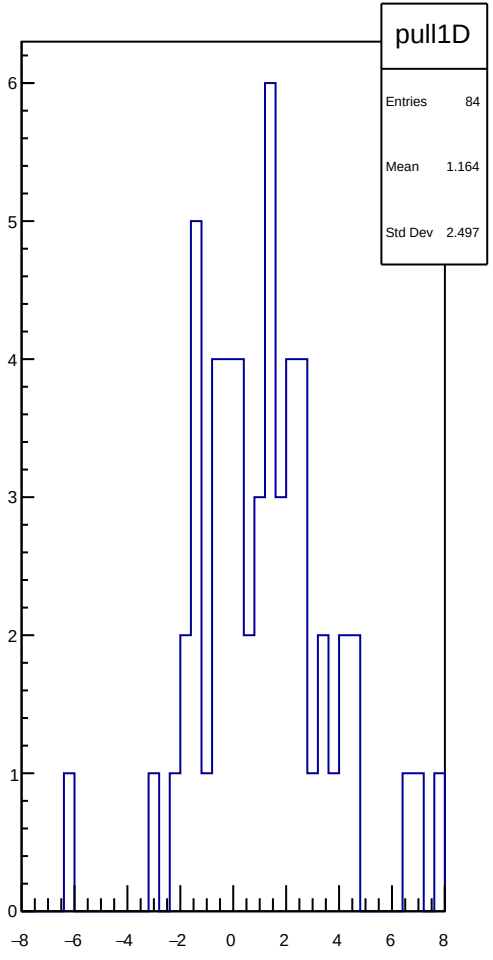

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 591.3 / 83
p0 0.169 ± 0.01111
pull
Entries 84
Mean 90.64
Std Dev 16.35
pull1D
Entries 84
Mean 0.1286
Std Dev 2.427

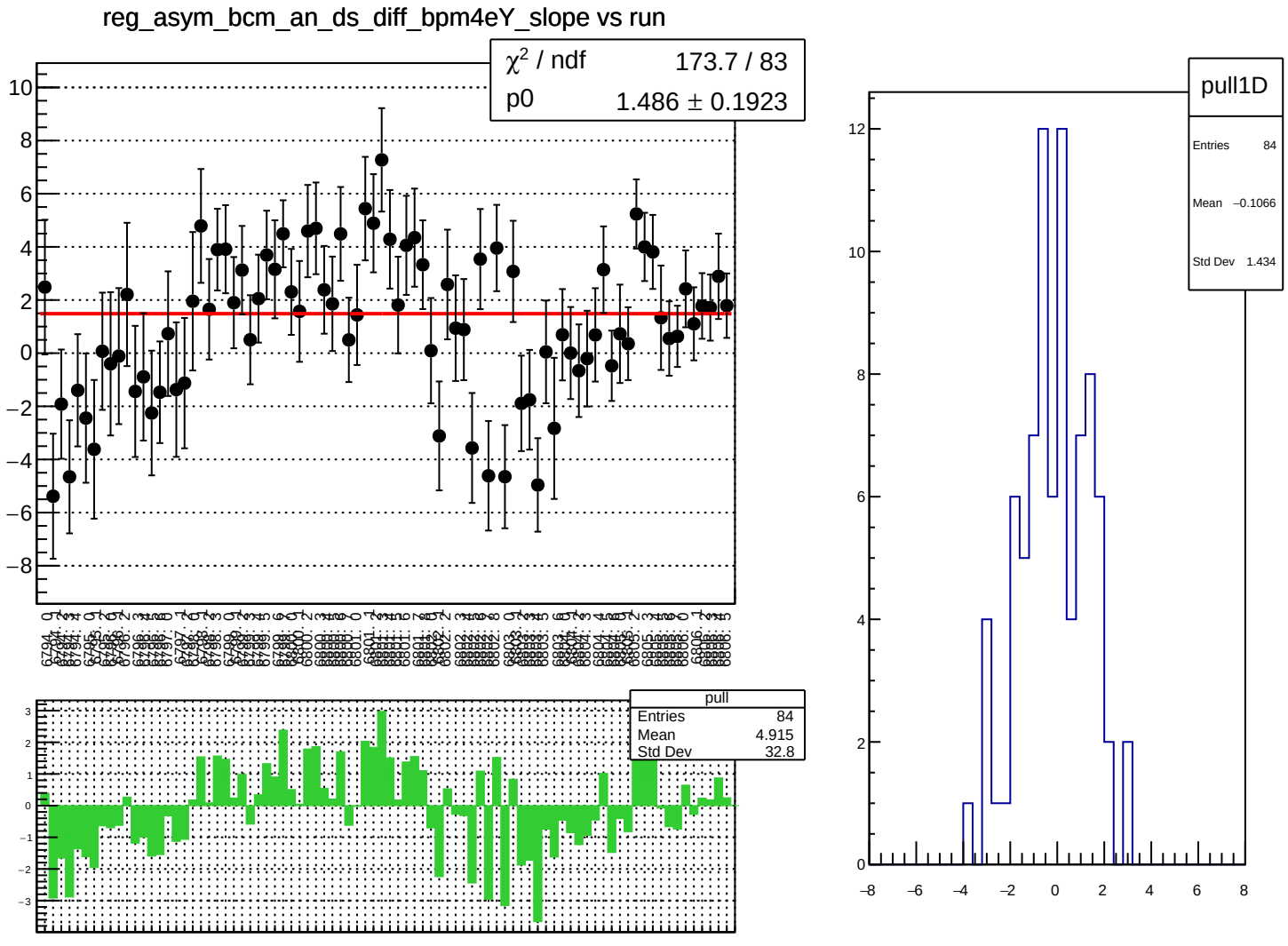

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 4579 / 83
p0 −34.89 ± 0.2791
pull
Entries 84
Mean −39.27
Std Dev 79.29

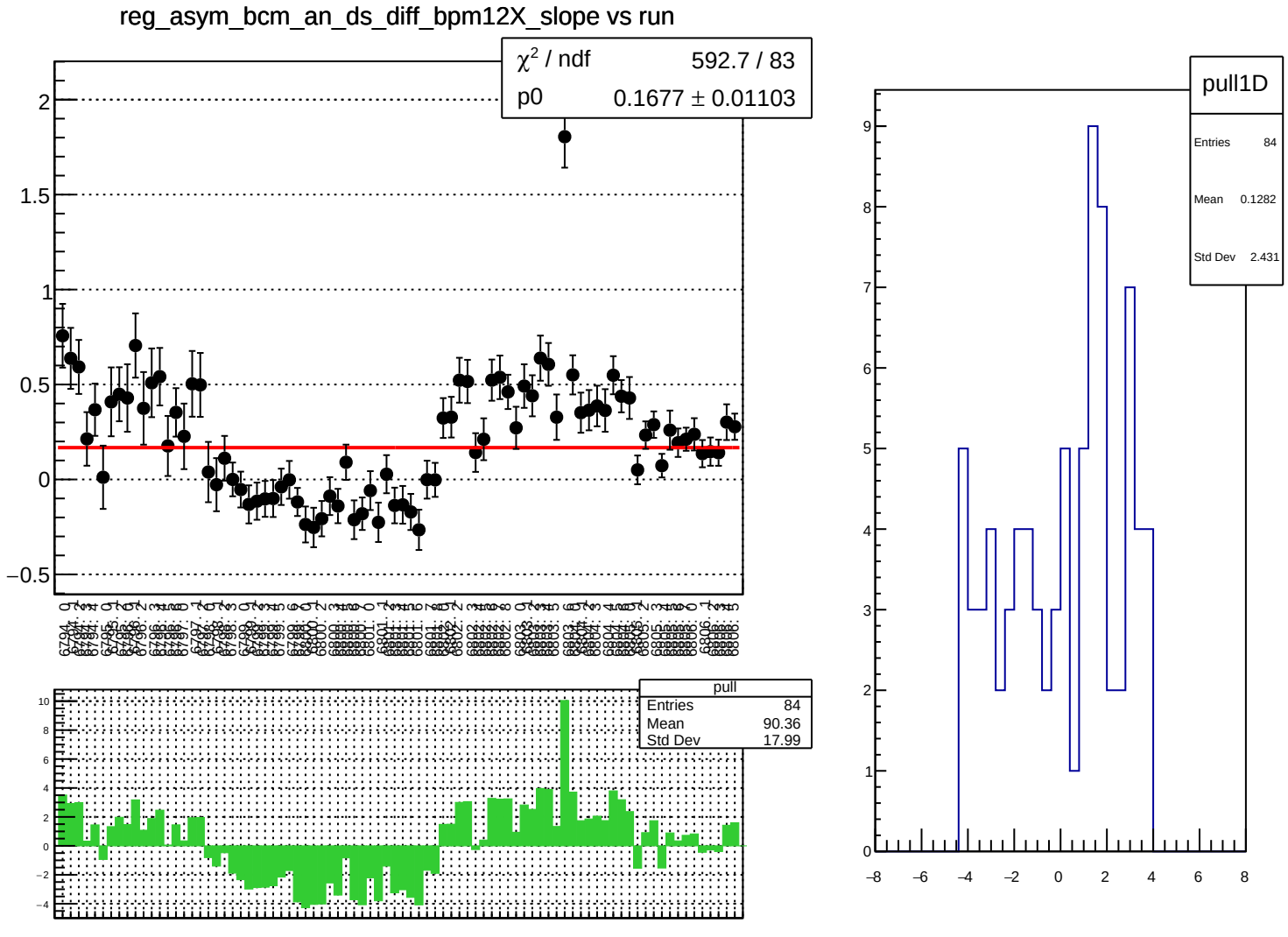

pull1D
Entries 84
Mean −1.193
Std Dev 2.481

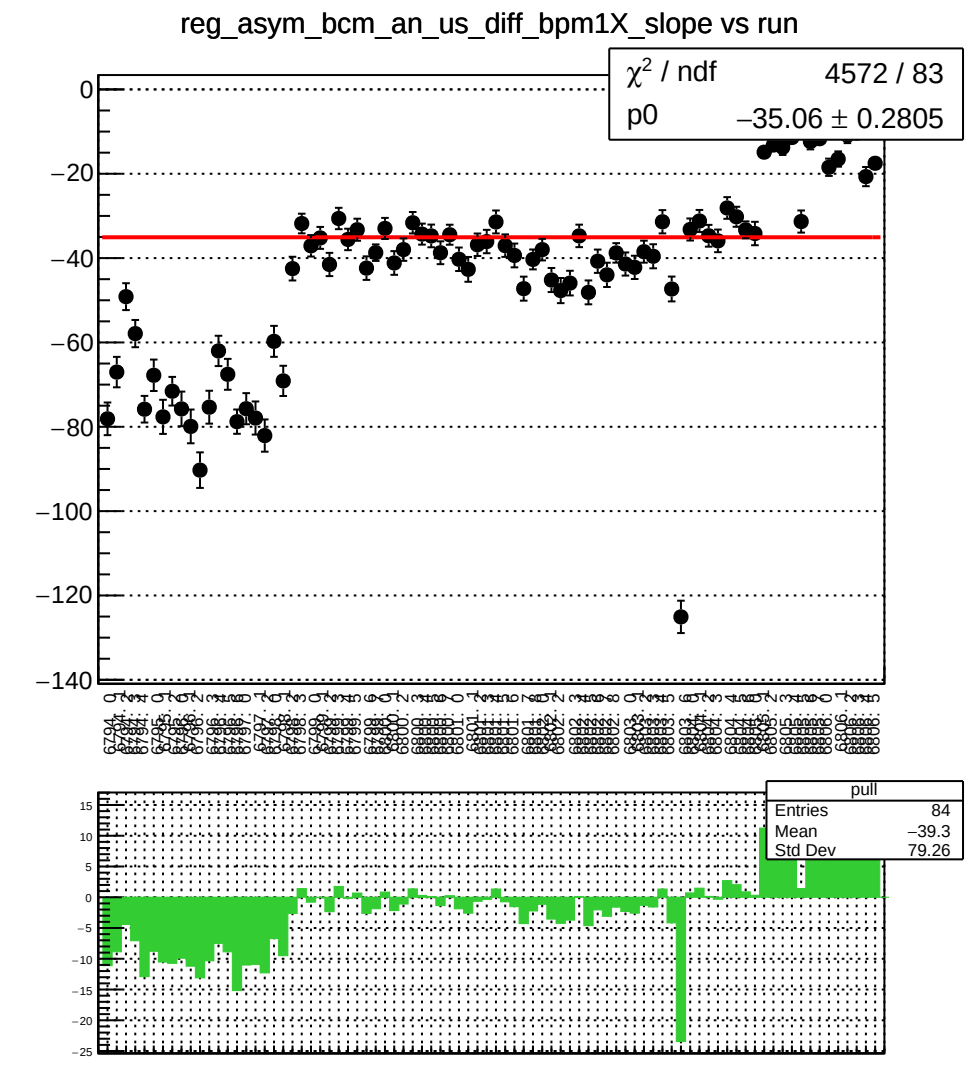

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 152.7 / 83
p0 −1.31 ± 0.1386
pull
Entries 84
Mean 13.74
Std Dev 50.37
pull1D
Entries 84
Mean 0.07266
Std Dev 1.347

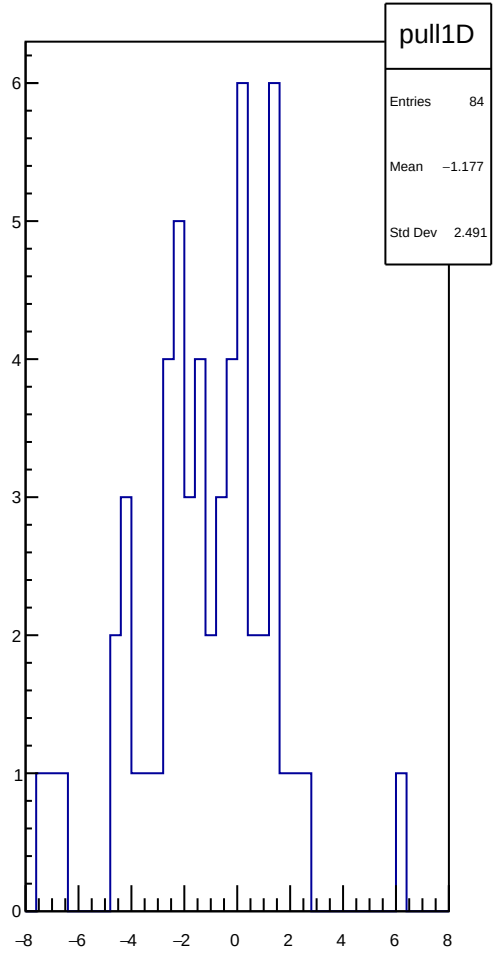

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 4576 / 83
p0 32.13 ± 0.2616
pull
Entries 84
Mean −39.67
Std Dev 79.61

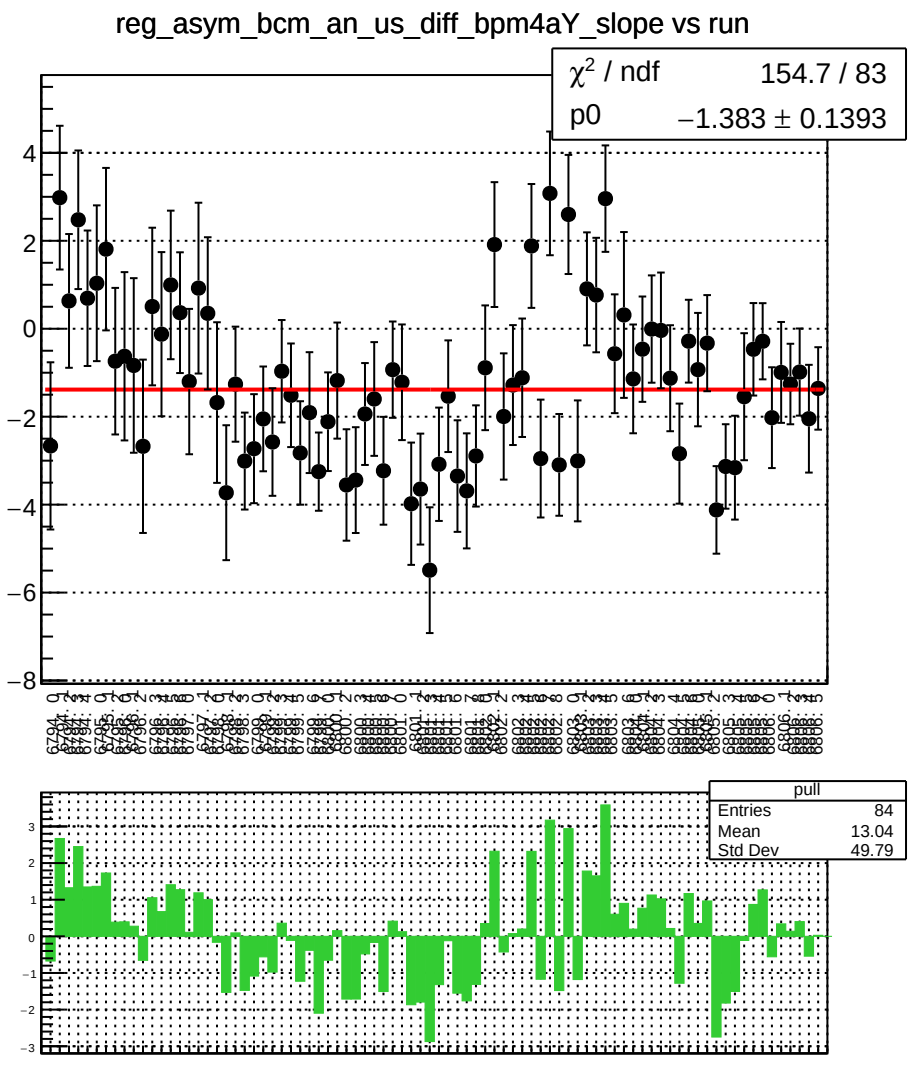

pull1D
Entries 84
Mean 1.164
Std Dev 2.497

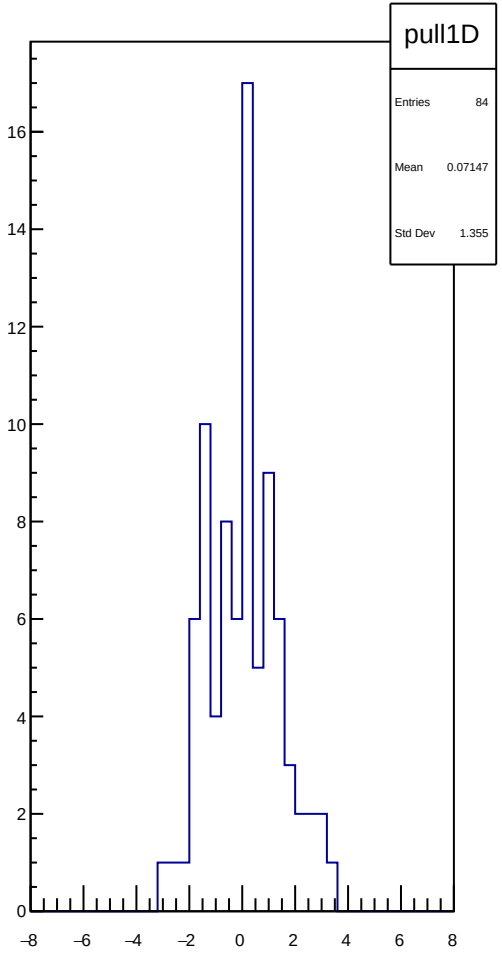

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 173.7 / 83
p0 1.486 ± 0.1923
pull
Entries 84
Mean 4.915
Std Dev 32.8
pull1D
Entries 84
Mean −0.1066
Std Dev 1.434

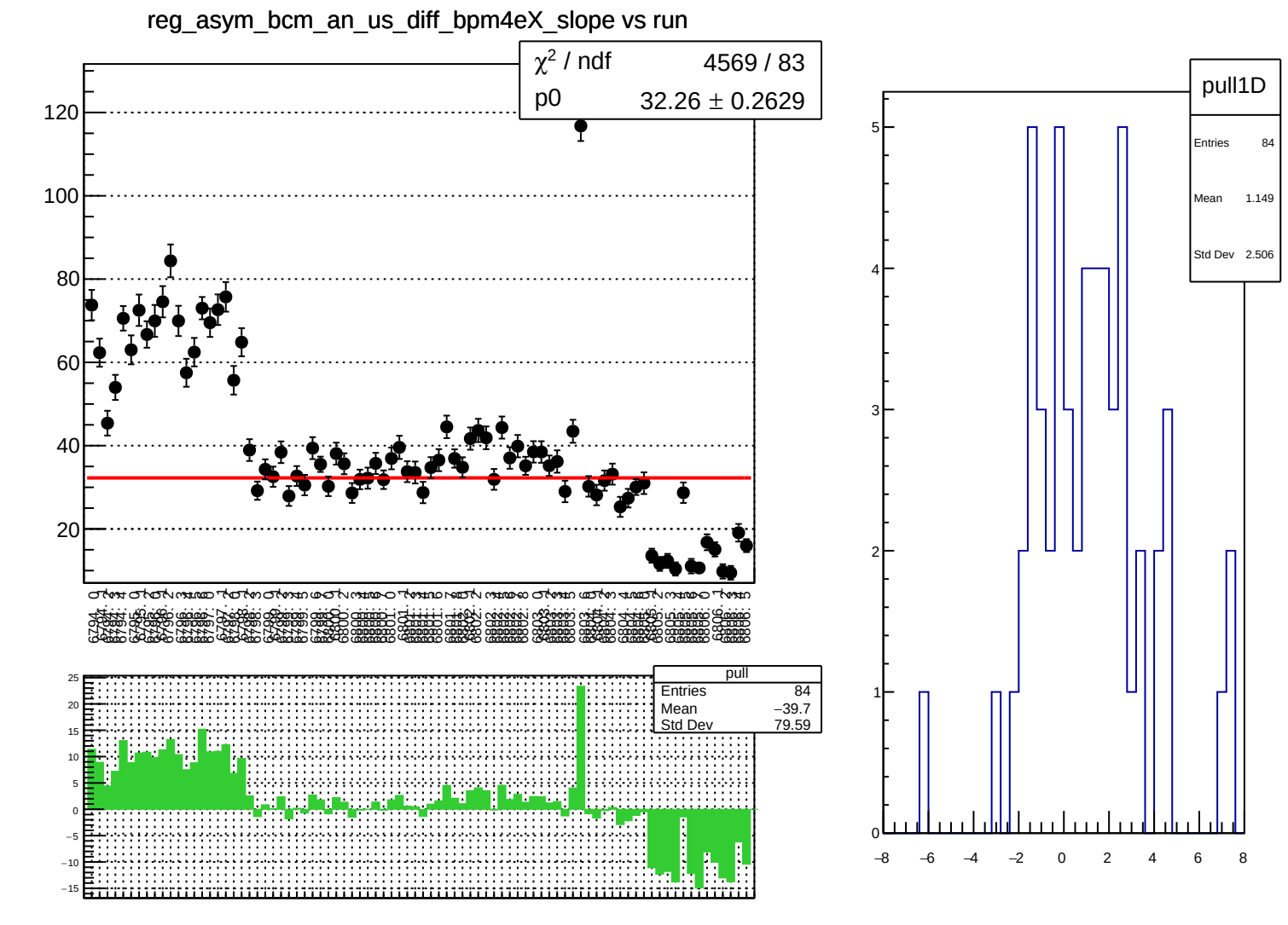

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 592.7 / 83
p0 0.1677 ± 0.01103
pull
Entries 84
Mean 90.36
Std Dev 17.99
pull1D
Entries 84
Mean 0.1282
Std Dev 2.431

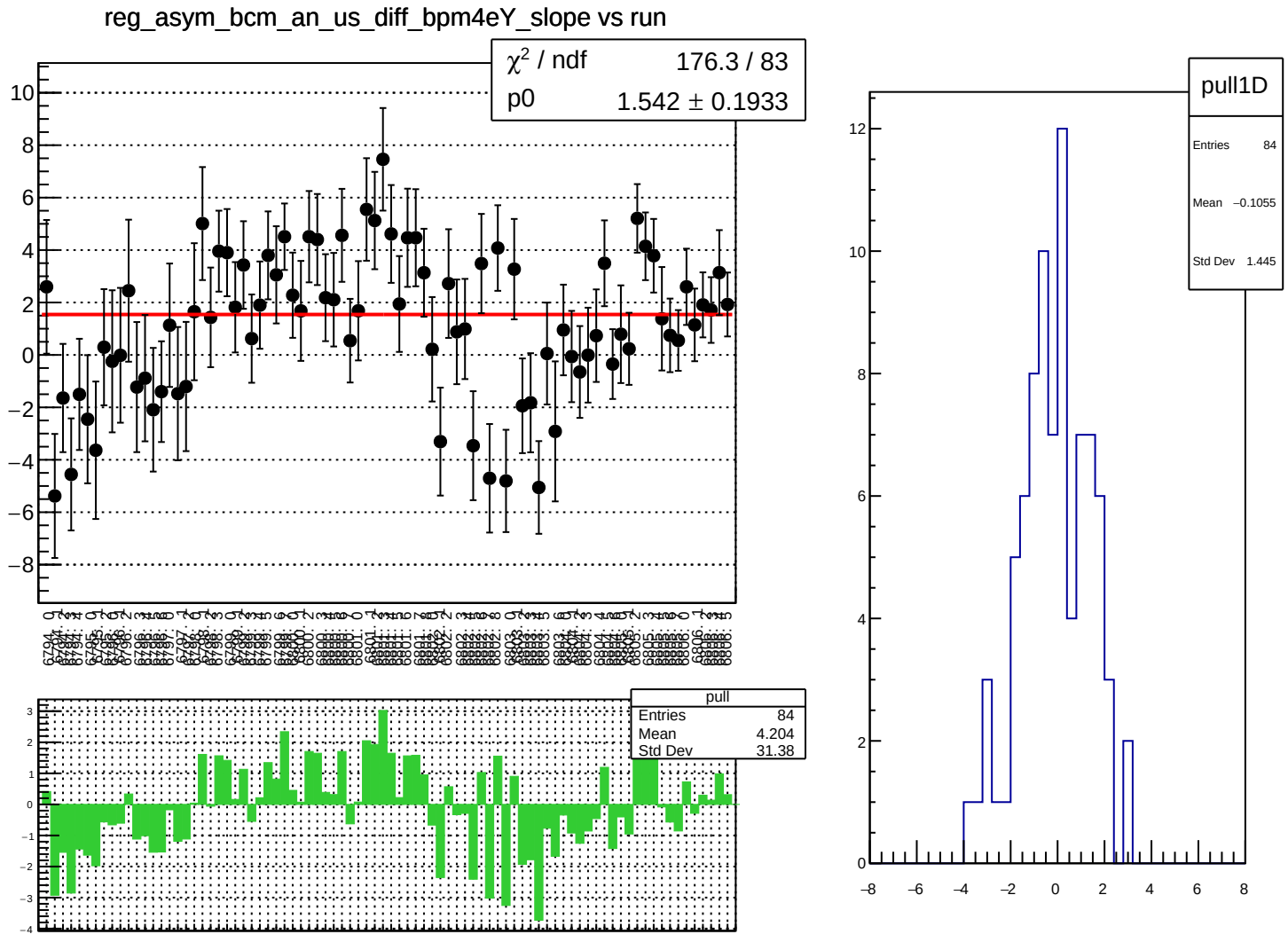

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 4572 / 83
p0 −35.06 ± 0.2805
pull
Entries 84
Mean −39.3
Std Dev 79.26

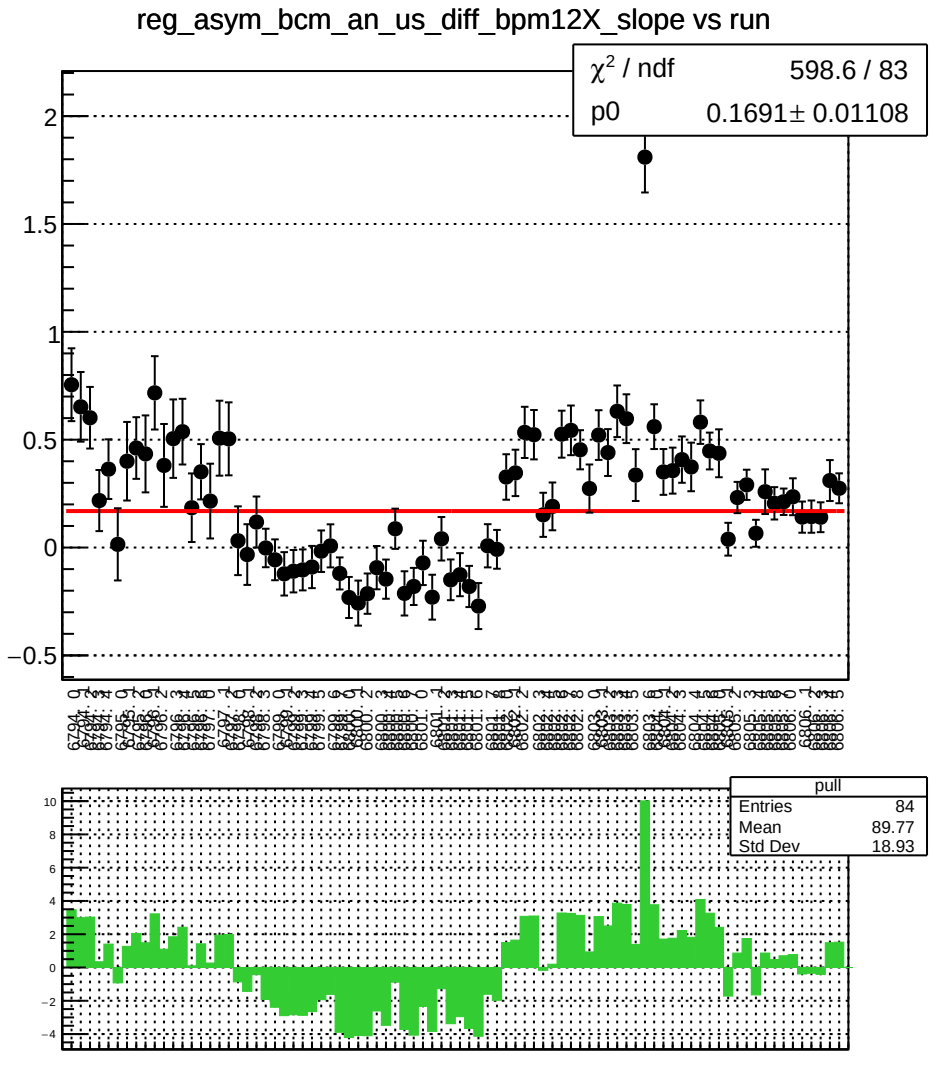

pull1D
Entries 84
Mean −1.177
Std Dev 2.491

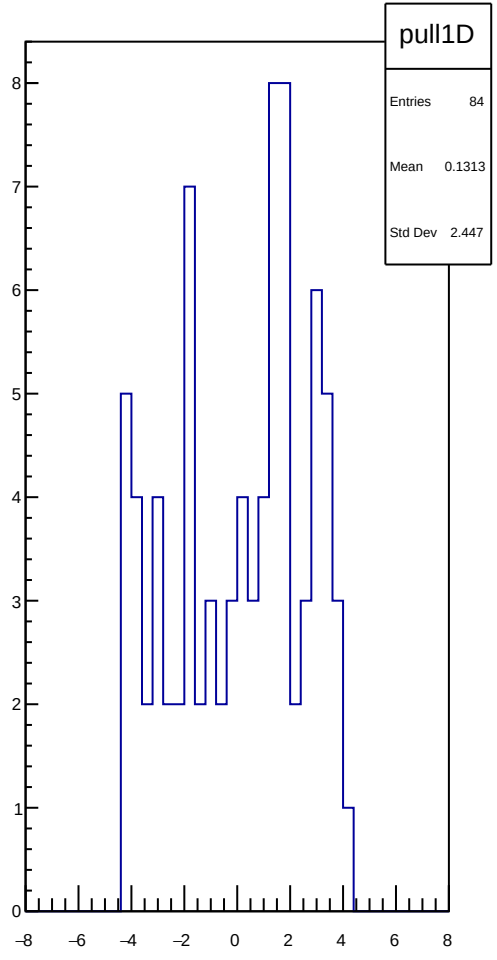

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 154.7 / 83
p0 −1.383 ± 0.1393
pull
Entries 84
Mean 13.04
Std Dev 49.79

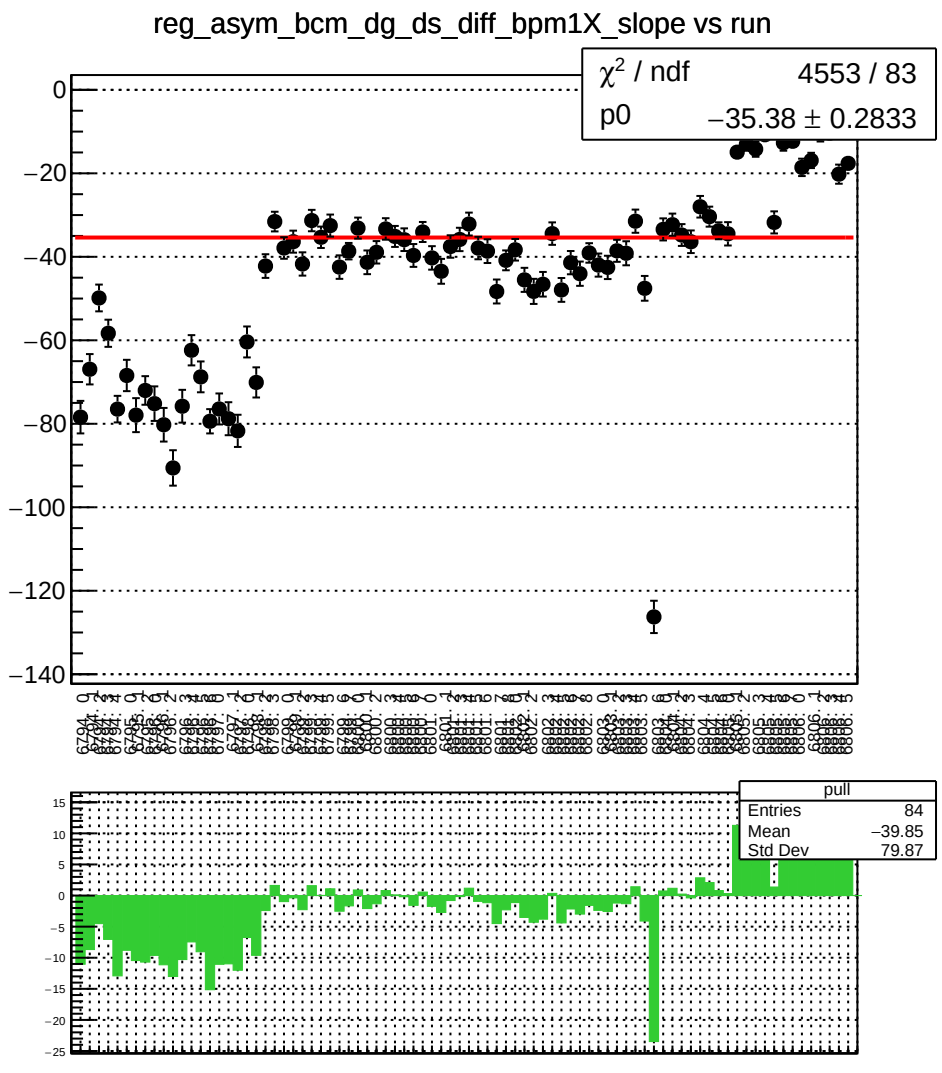

pull1D
Entries 84
Mean 0.07147
Std Dev 1.355

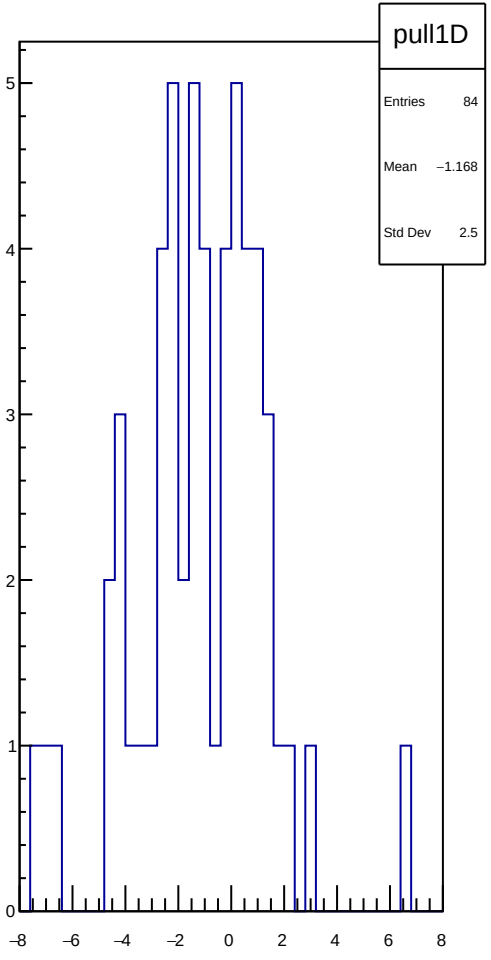

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 4569 / 83
p0 32.26 ± 0.2629
pull
Entries 84
Mean −39.7
Std Dev 79.59
pull1D
Entries 84
Mean 1.149
Std Dev 2.506

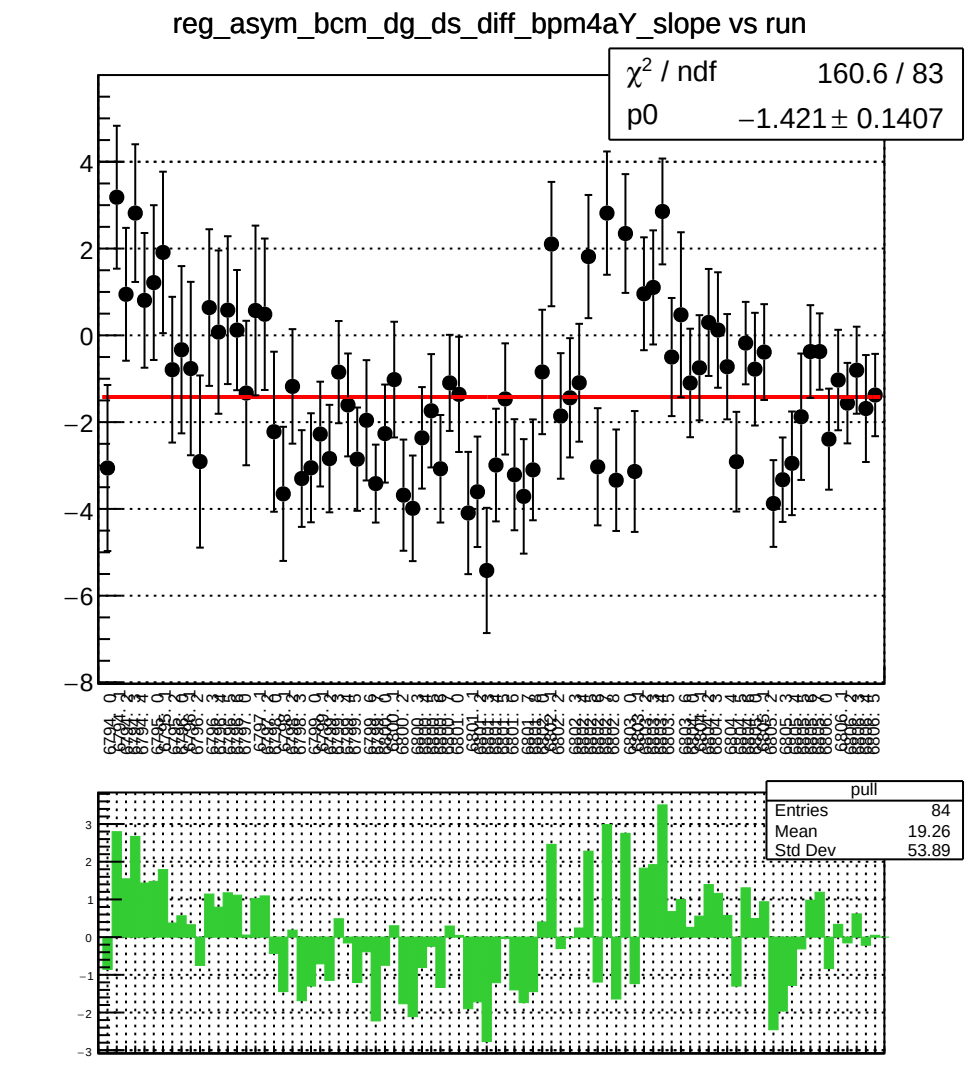

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 176.3 / 83
p0 1.542 ± 0.1933
pull
Entries 84
Mean 4.204
Std Dev 31.38
pull1D
Entries 84
Mean −0.1055
Std Dev 1.445

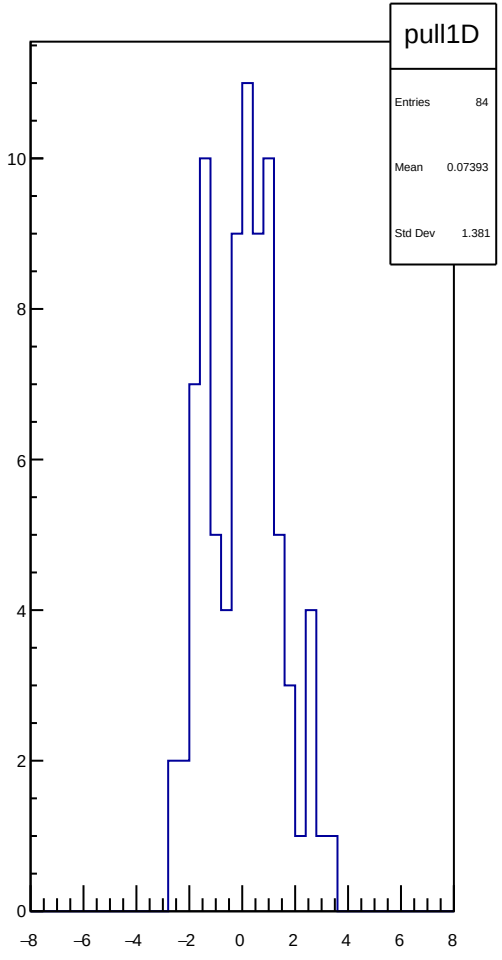

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 598.6 / 83
p0 0.1691± 0.01108
pull
Entries 84
Mean 89.77
Std Dev 18.93

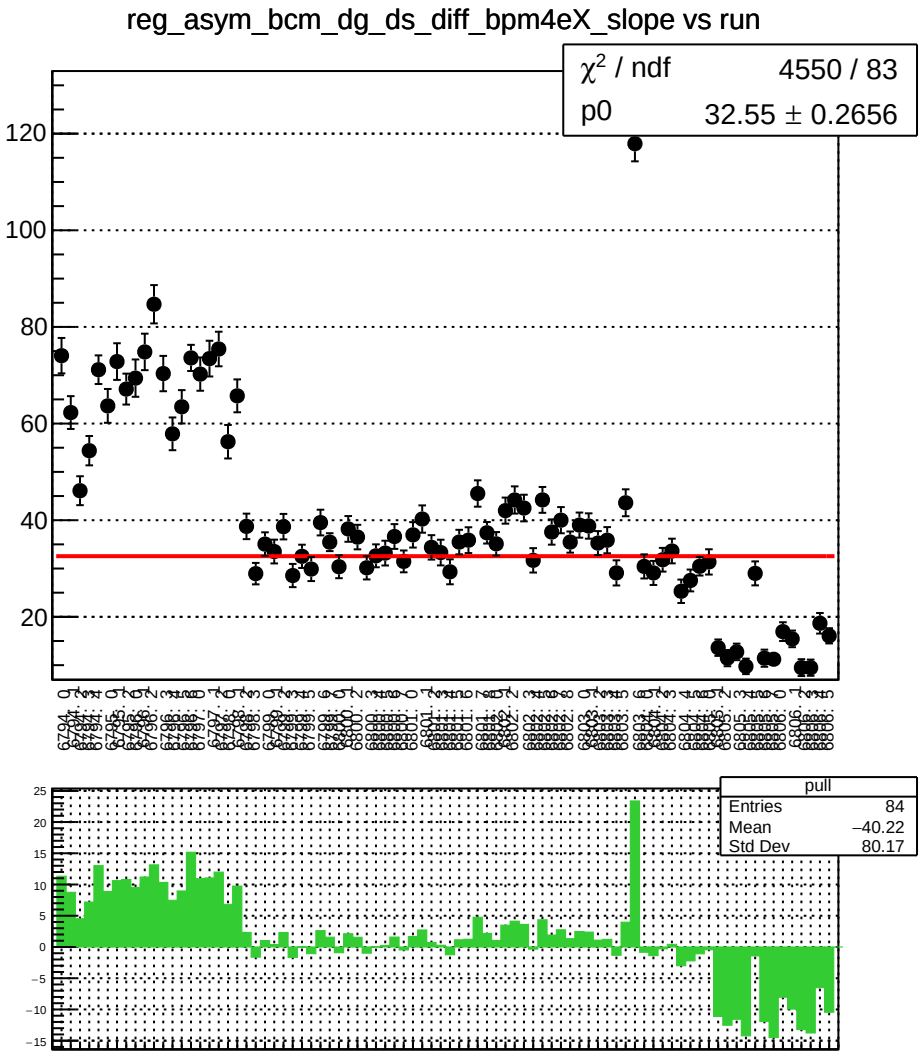

pull1D
Entries 84
Mean 0.1313
Std Dev 2.447

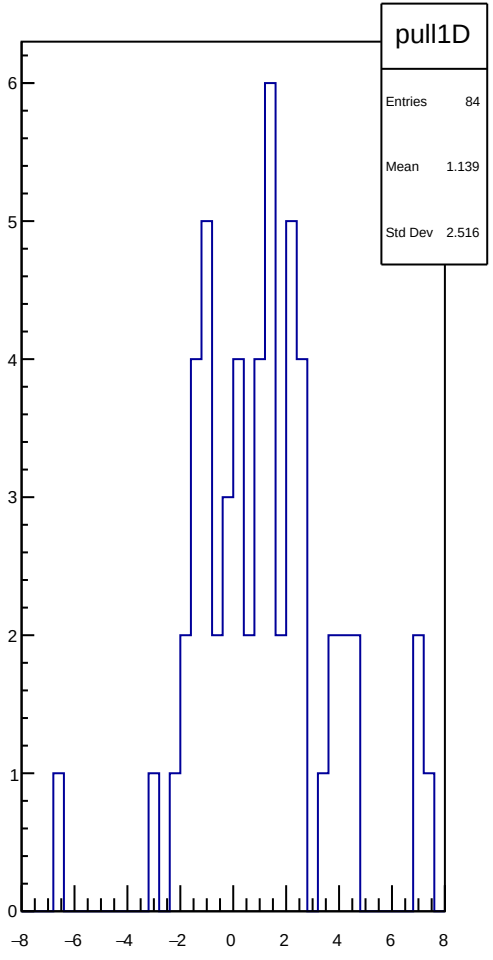

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 4553 / 83
p0 −35.38 ± 0.2833
pull
Entries 84
Mean −39.85
Std Dev 79.87

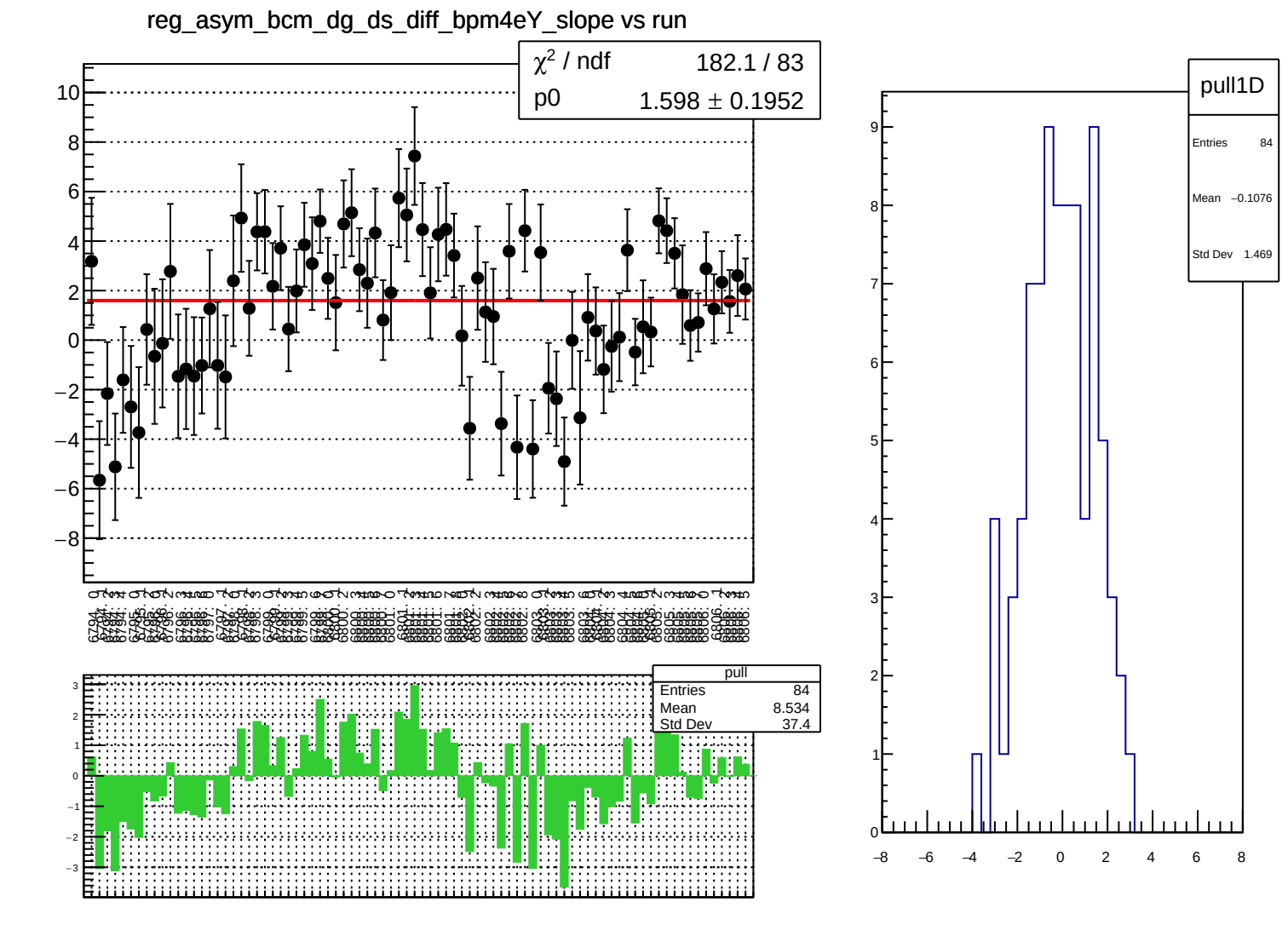

pull1D
Entries 84
Mean −1.168
Std Dev 2.5

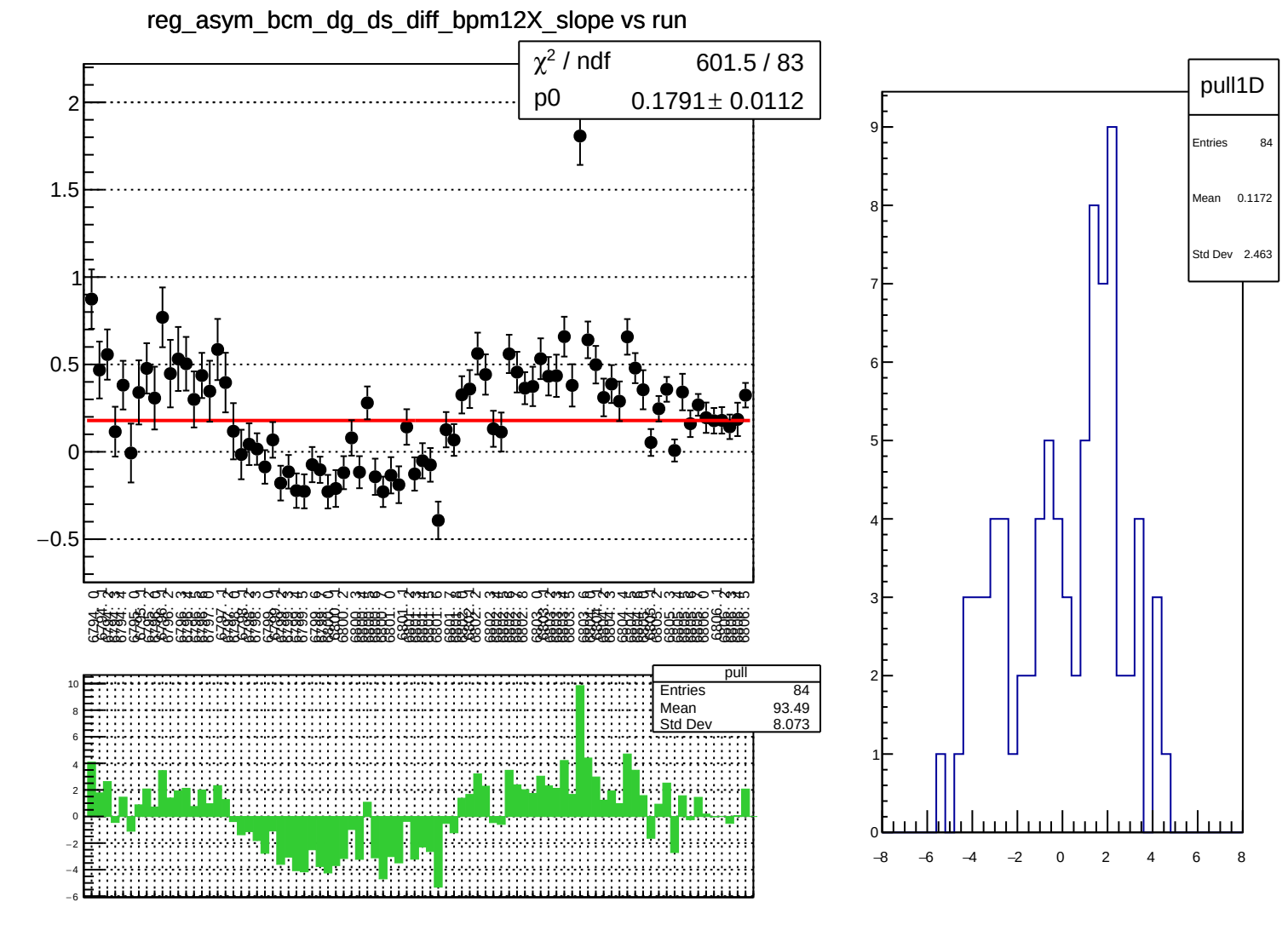

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 160.6 / 83
p0 −1.421 ± 0.1407
pull
Entries 84
Mean 19.26
Std Dev 53.89

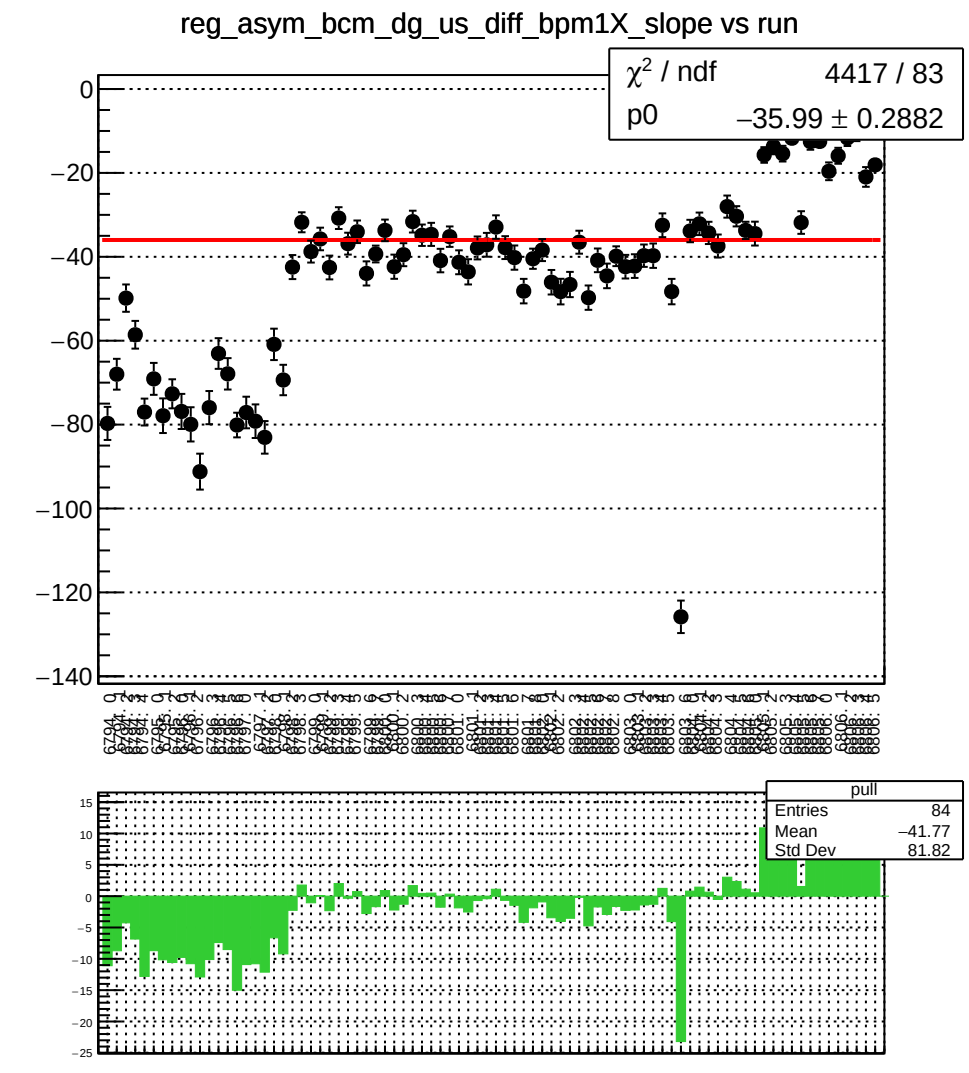

pull1D
Entries 84
Mean 0.07393
Std Dev 1.381

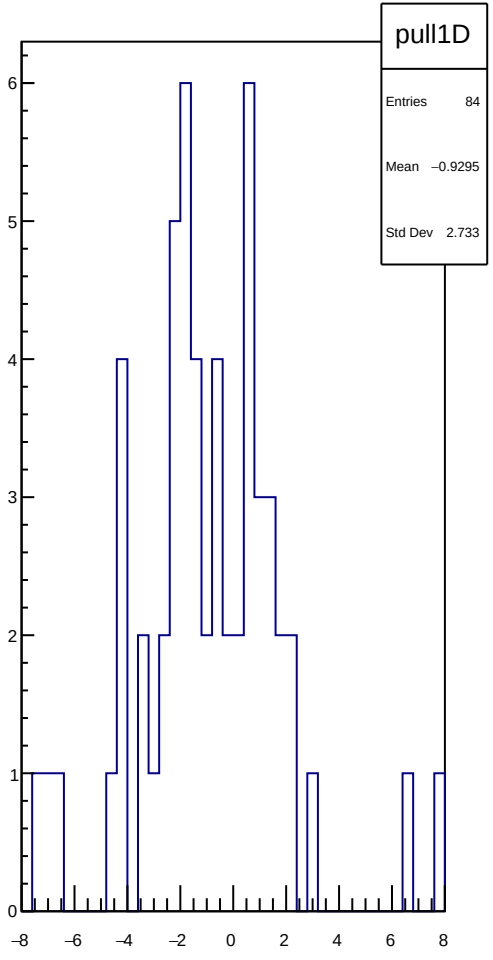

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 4550 / 83
p0 32.55 ± 0.2656
pull
Entries 84
Mean −40.22
Std Dev 80.17

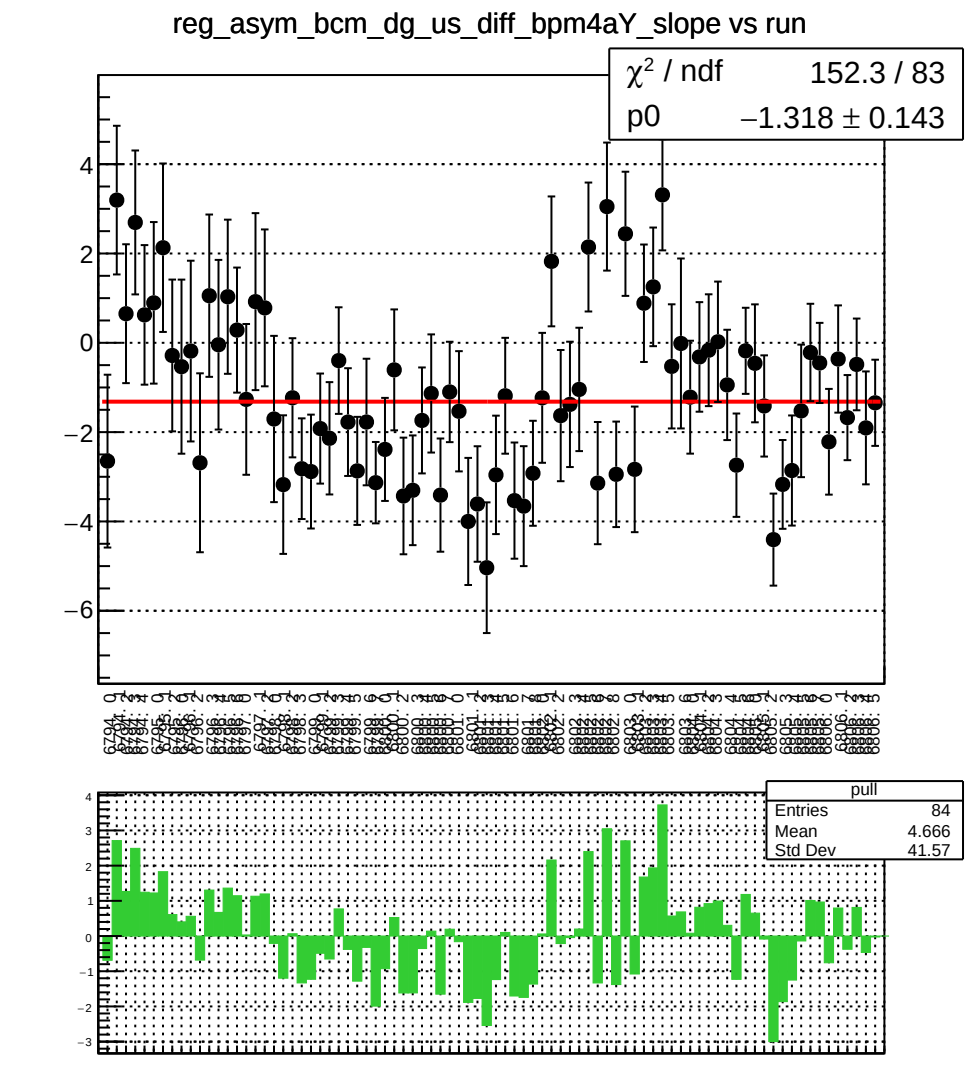

pull1D
Entries 84
Mean 1.139
Std Dev 2.516

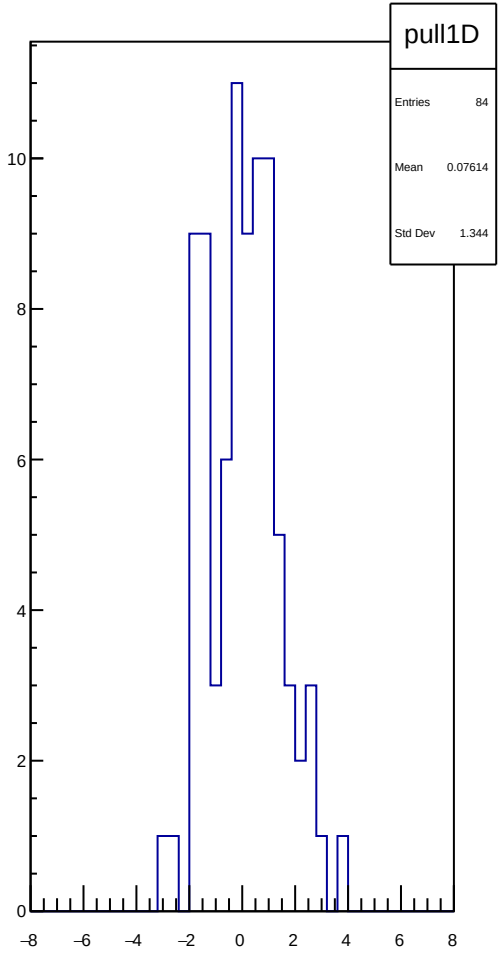

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 182.1 / 83
p0 1.598 ± 0.1952
pull
Entries 84
Mean 8.534
Std Dev 37.4
pull1D
Entries 84
Mean −0.1076
Std Dev 1.469

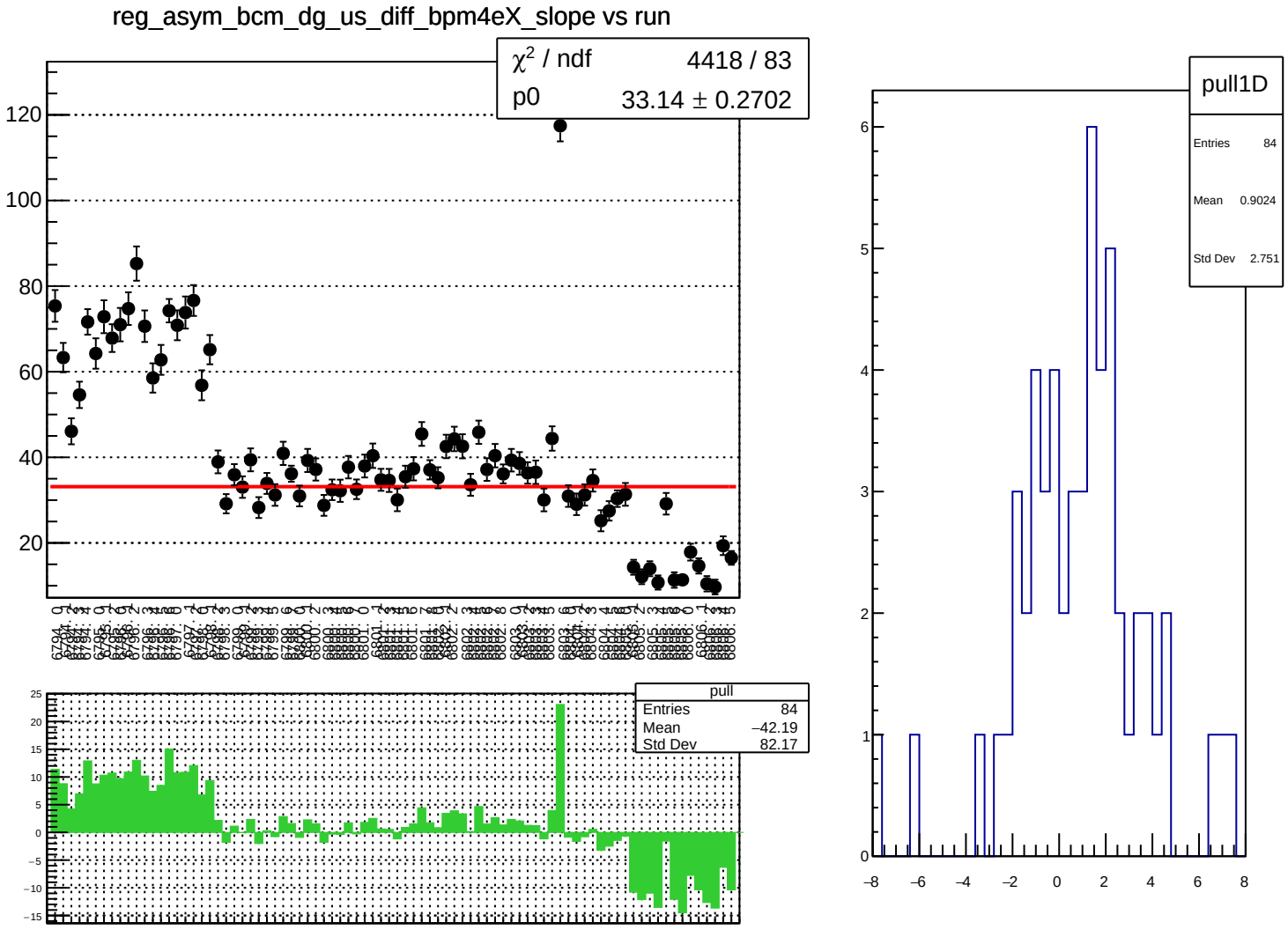

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 601.5 / 83
p0 0.1791 ± 0.0112
pull
Entries 84
Mean 93.49
Std Dev 8.073
pull1D
Entries 84
Mean 0.1172
Std Dev 2.463

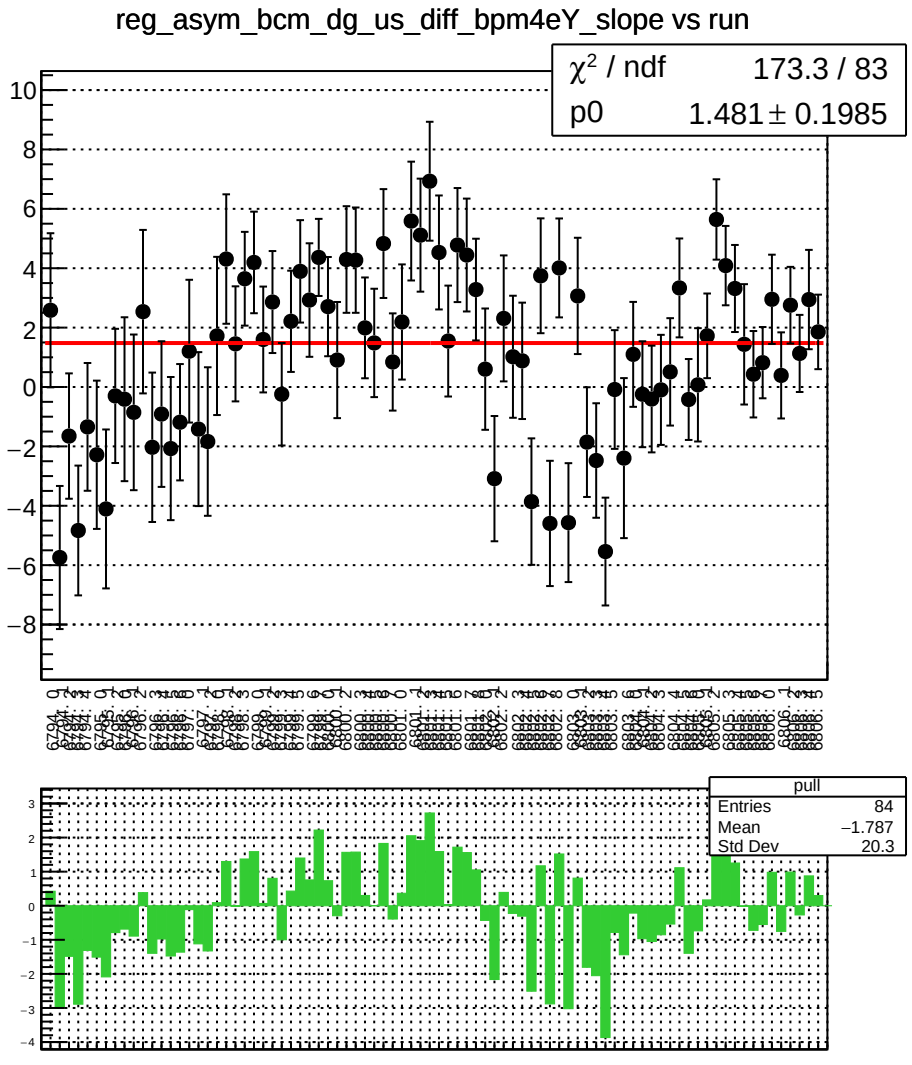

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 4417 / 83
p0 −35.99 ± 0.2882
pull
Entries 84
Mean −41.77
Std Dev 81.82

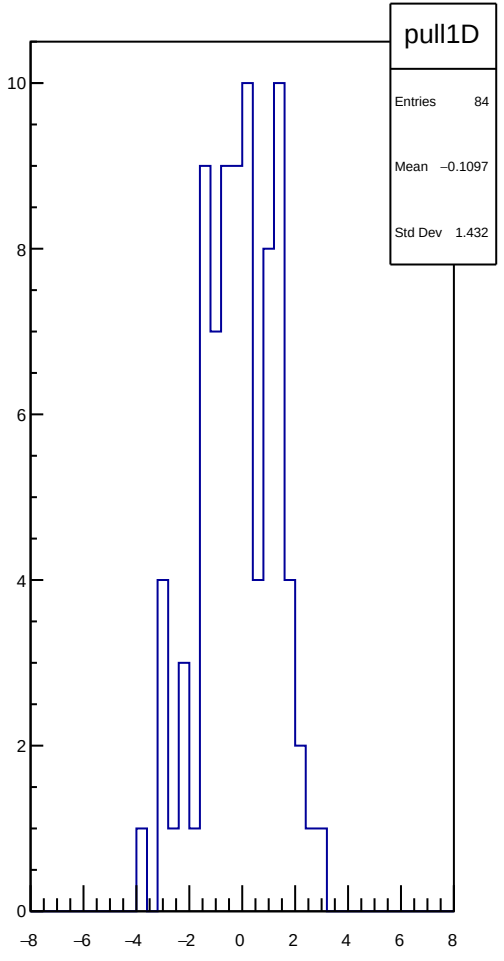

pull1D
Entries 84
Mean −0.9295
Std Dev 2.733

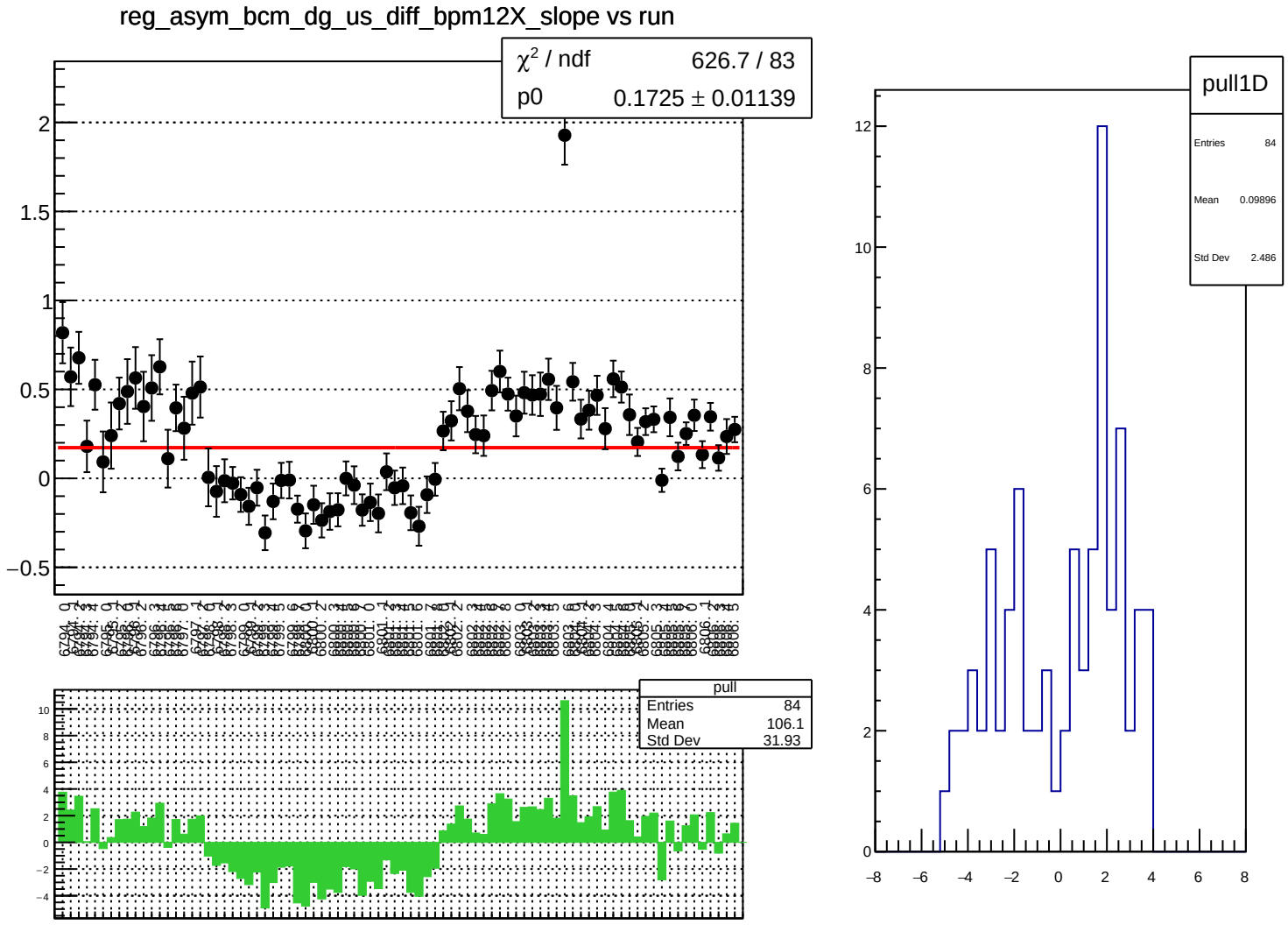

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 152.3 / 83
p0 −1.318 ± 0.143
pull
Entries 84
Mean 4.666
Std Dev 41.57

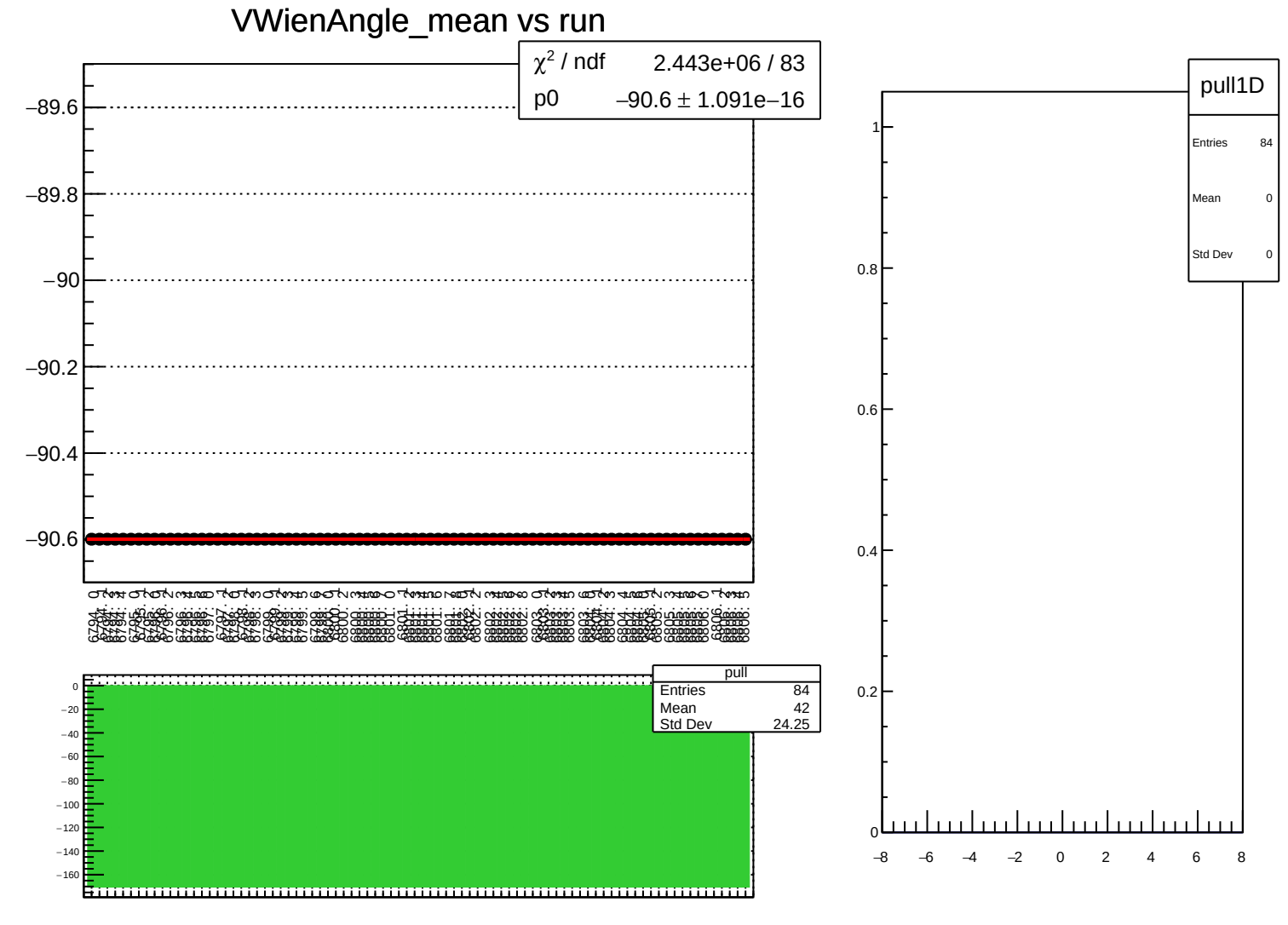

pull1D
Entries 84
Mean 0.07614
Std Dev 1.344

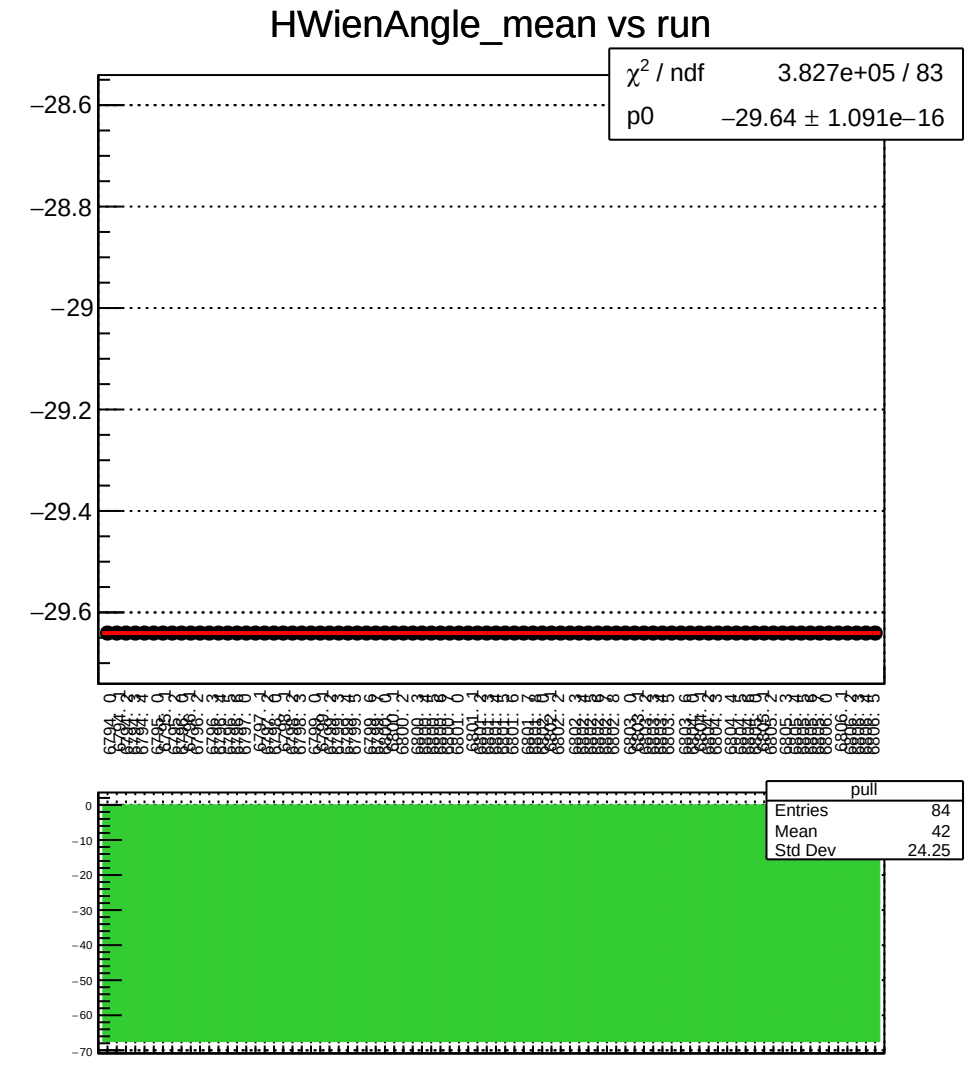

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 4418 / 83
p0 33.14 ± 0.2702
120
100
80
60
40
20
pull
Entries 84
Mean −42.19
Std Dev 82.17
25
20
15
10
5
0
−5
−10
−15
pull1D
Entries 84
Mean 0.9024
Std Dev 2.751
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

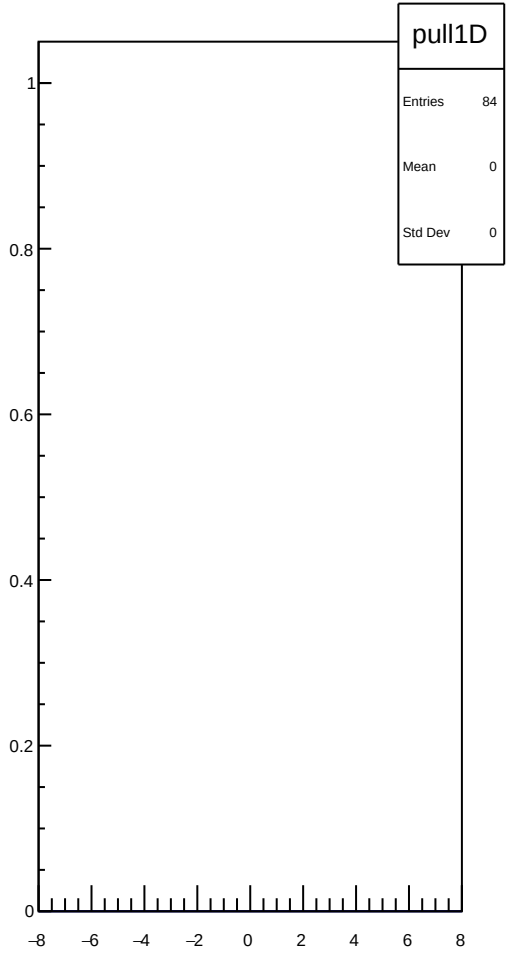

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 173.3 / 83
p0 1.481 ± 0.1985
pull
Entries 84
Mean −1.787
Std Dev 20.3

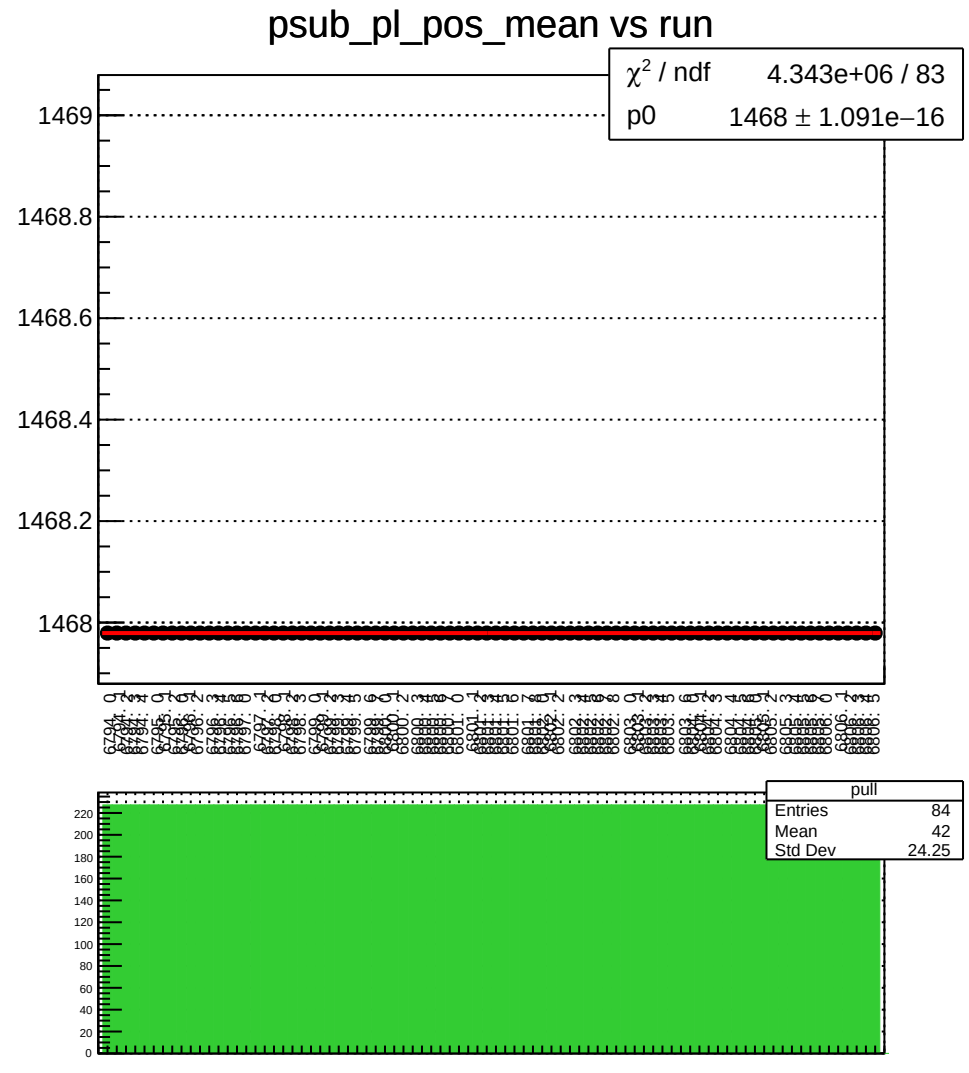

pull1D
Entries 84
Mean −0.1097
Std Dev 1.432

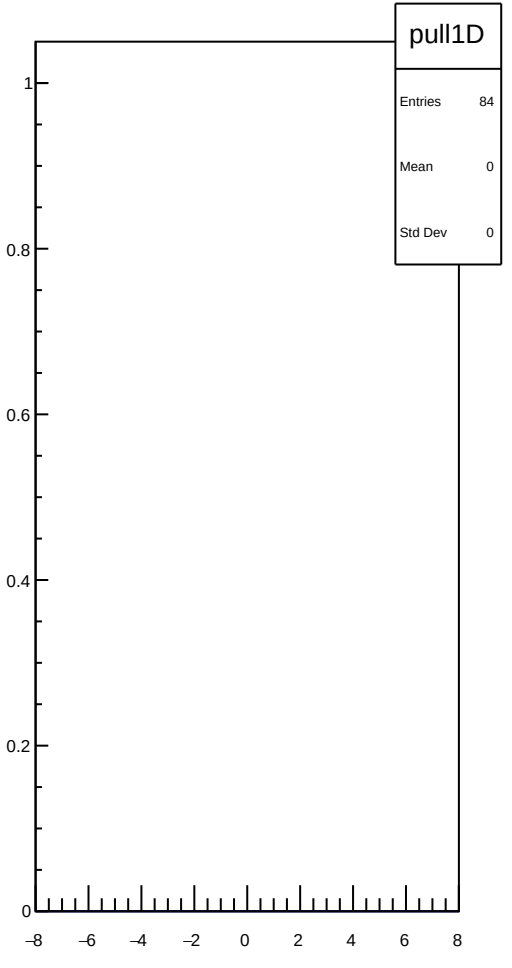

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 626.7 / 83
p0 0.1725 ± 0.01139
pull
Entries 84
Mean 106.1
Std Dev 31.93
pull1D
Entries 84
Mean 0.09896
Std Dev 2.486

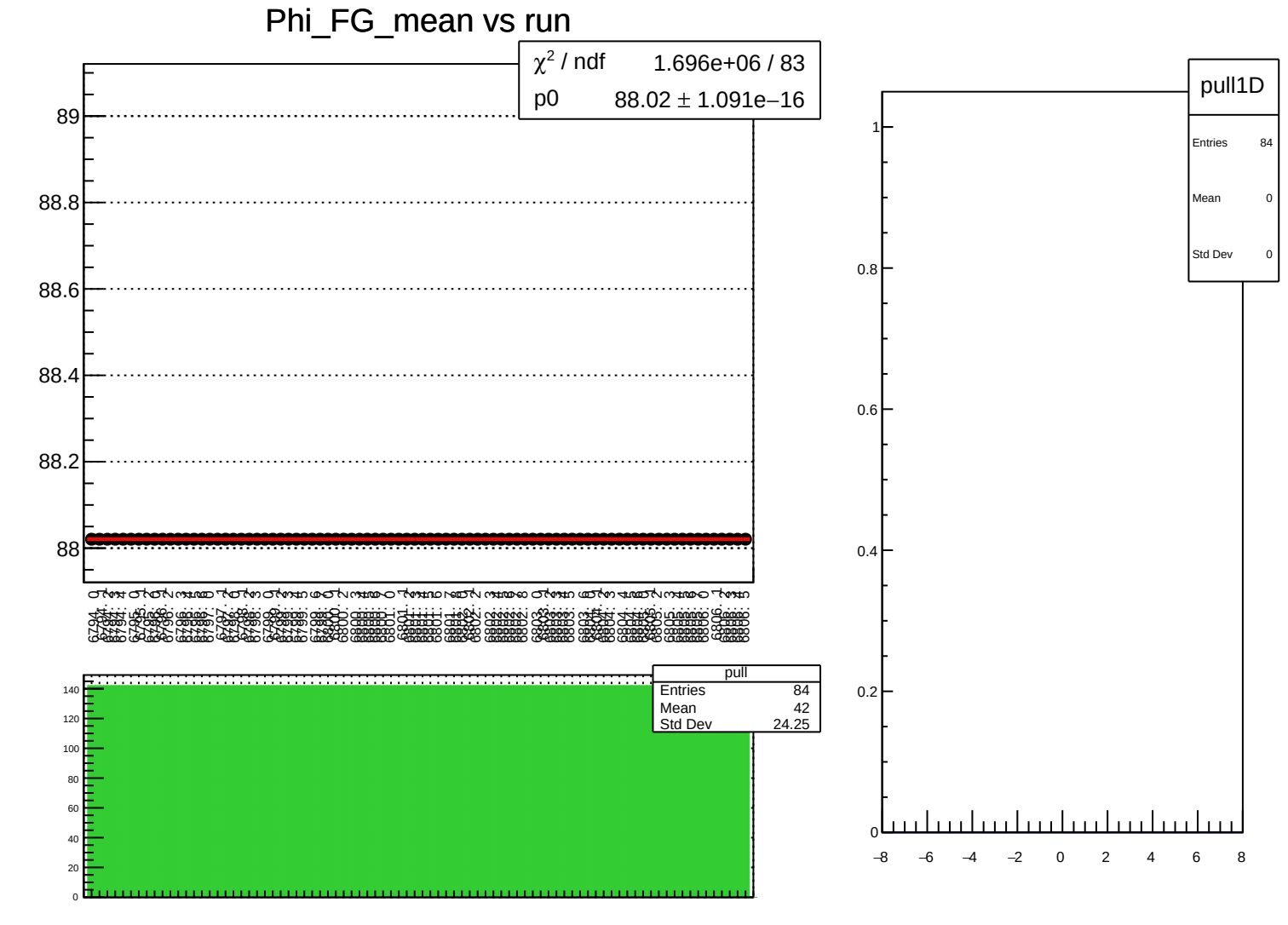

VWienAngle_mean vs run
χ² / ndf 2.443e+06 / 83
p0 −90.6 ± 1.091e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 84
Mean 42
Std Dev 24.25
0
−20
−40
−60
−80
−100
−120
−140
−160
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

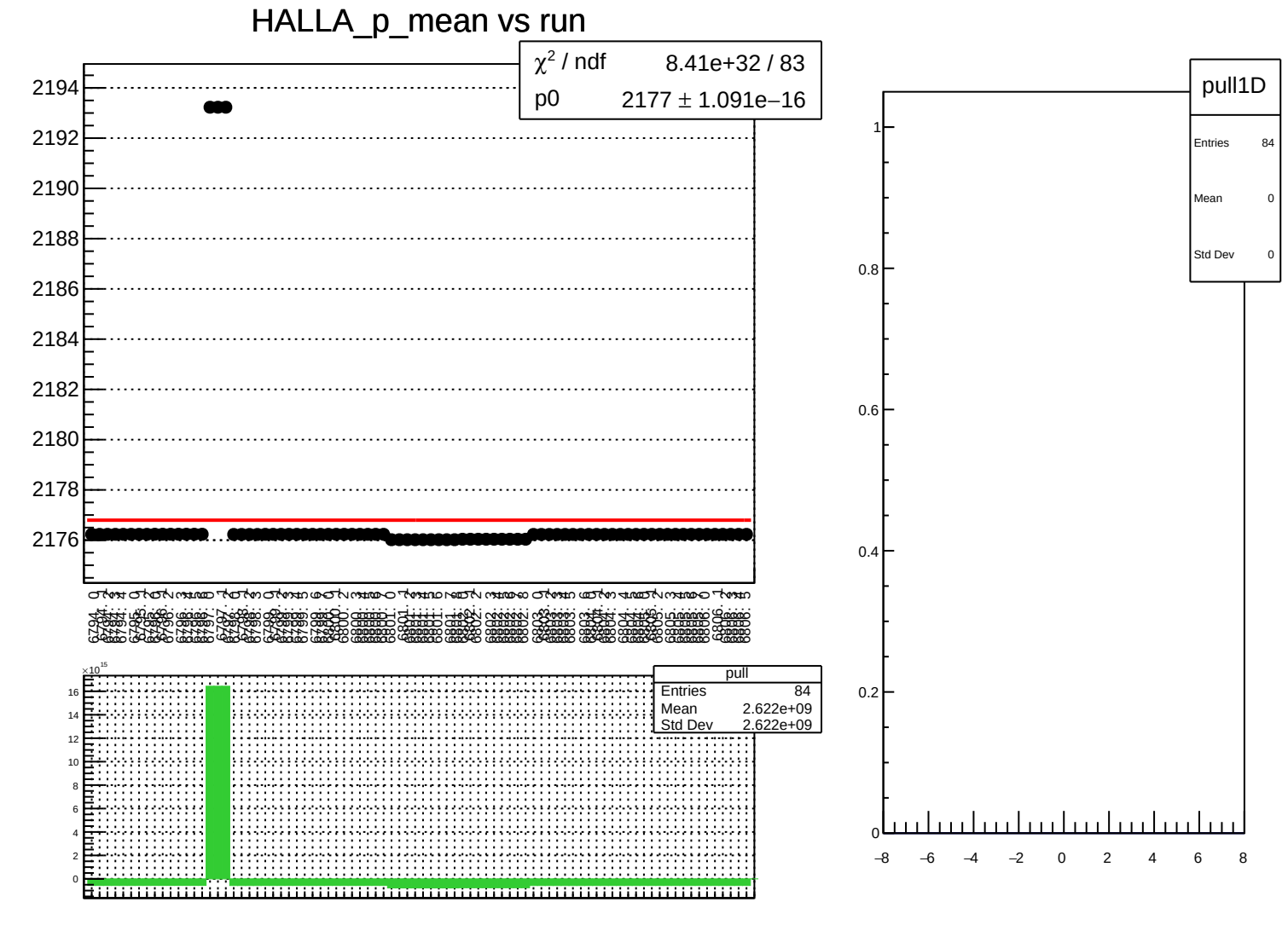

HWienAngle_mean vs run
χ² / ndf 3.827e+05 / 83
p0 −29.64 ± 1.091e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 84
Mean 42
Std Dev 24.25
0
−10
−20
−30
−40
−50
−60
−70

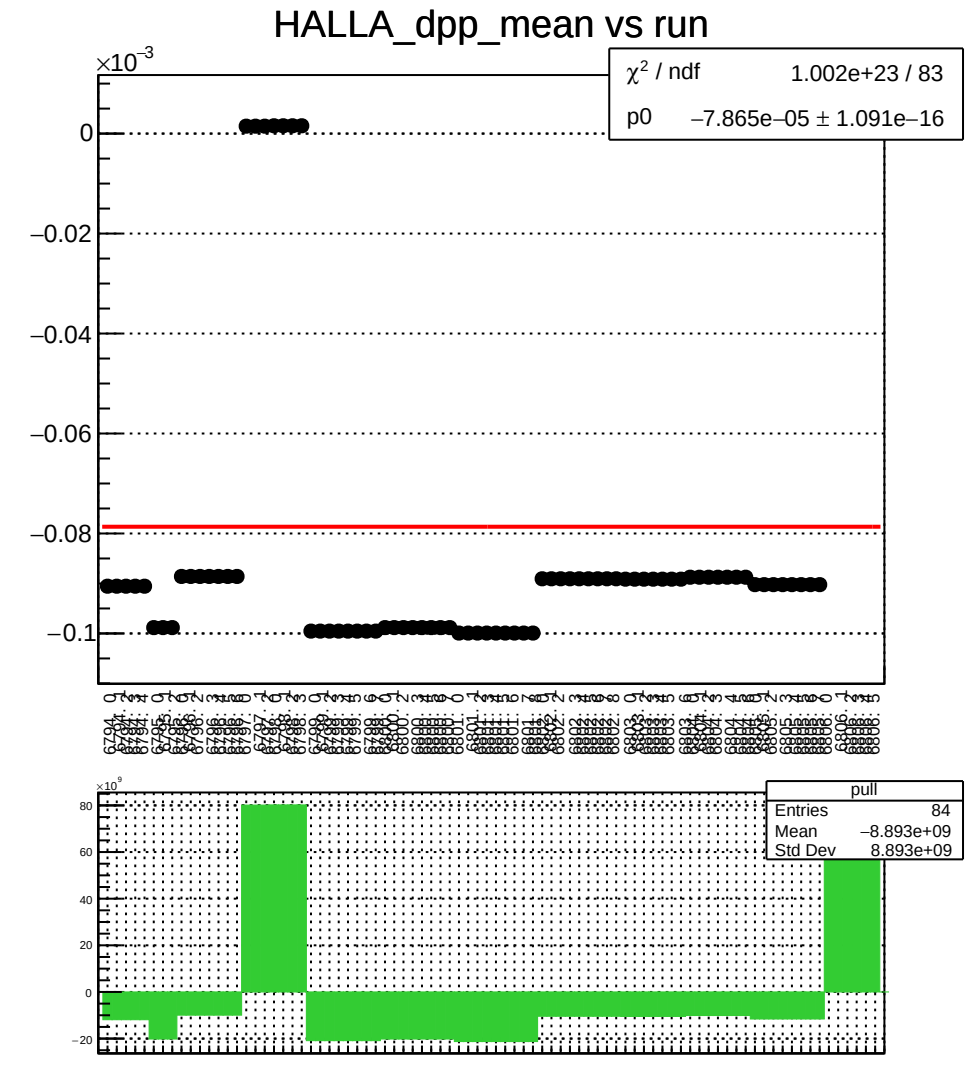

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

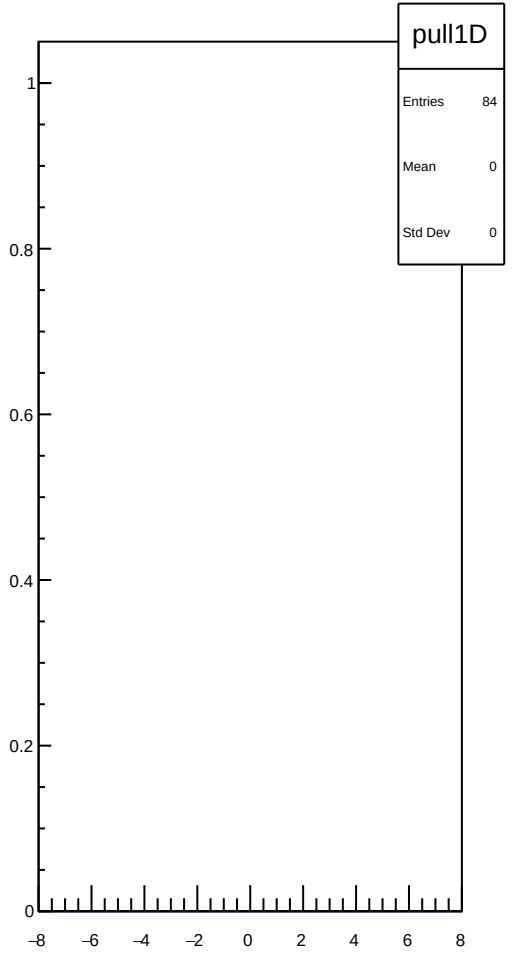

psub_pl_pos_mean vs run
χ² / ndf 4.343e+06 / 83
p0 1468 ± 1.091e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 84
Mean 42
Std Dev 24.25
220
200
180
160
140
120
100
80
60
40
20
0

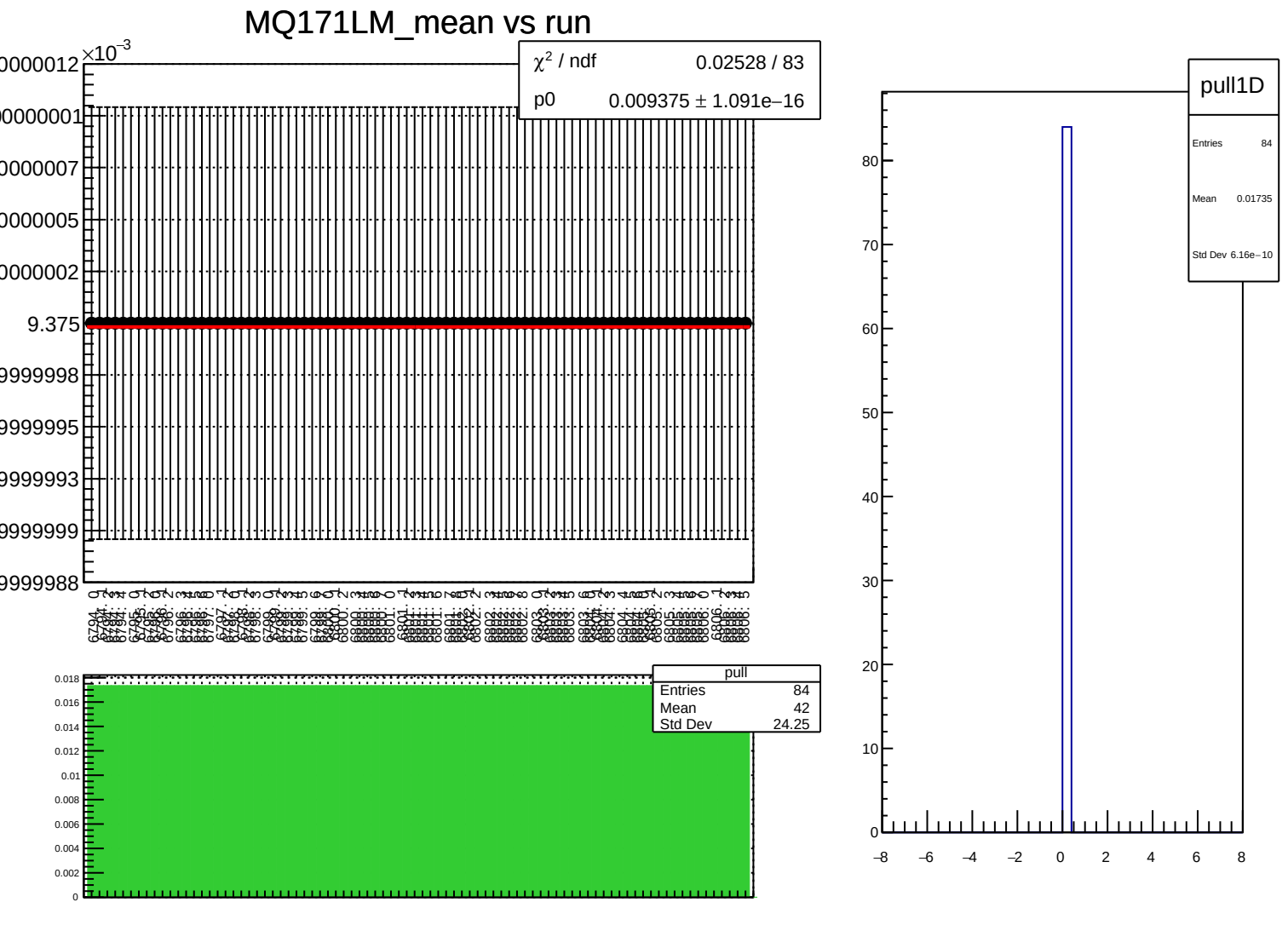

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

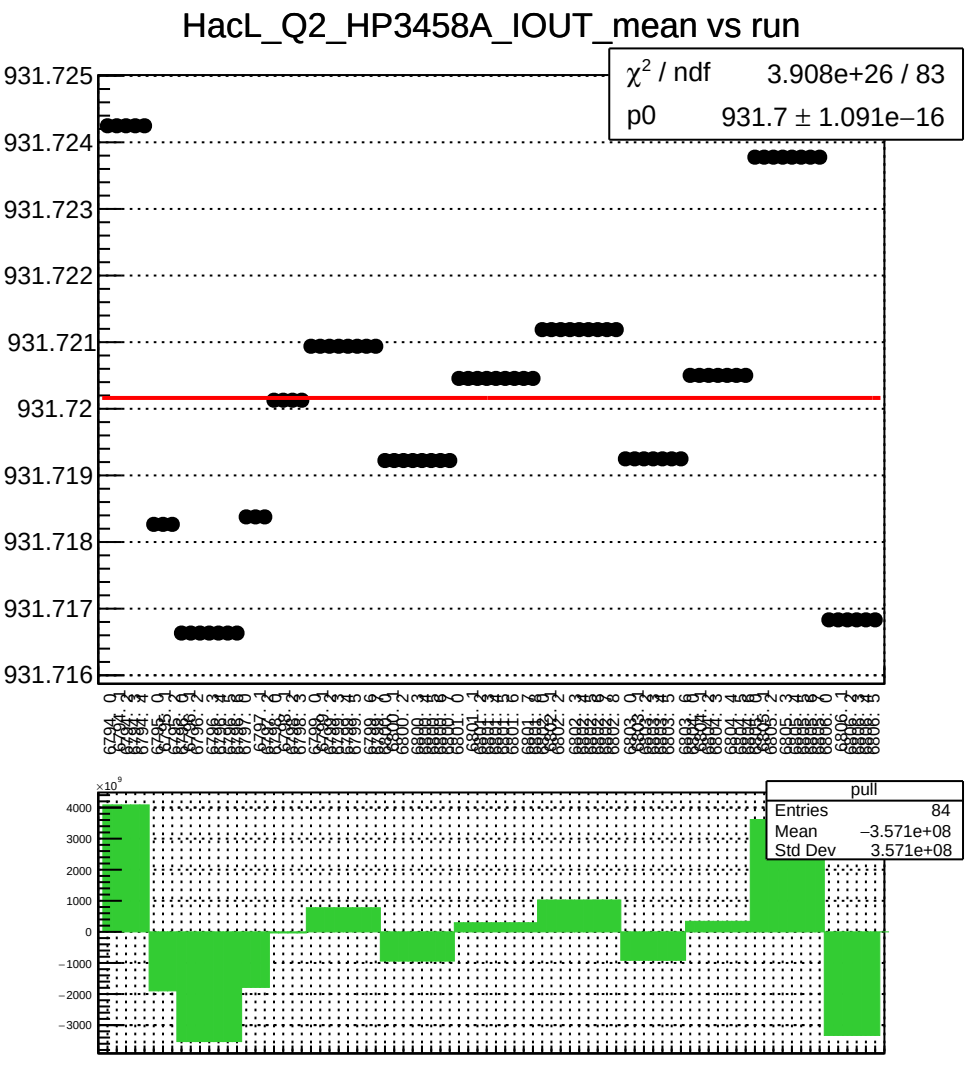

Phi_FG_mean vs run
χ² / ndf 1.696e+06 / 83
p0 88.02 ± 1.091e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 84
Mean 42
Std Dev 24.25
140
120
100
80
60
40
20
0
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

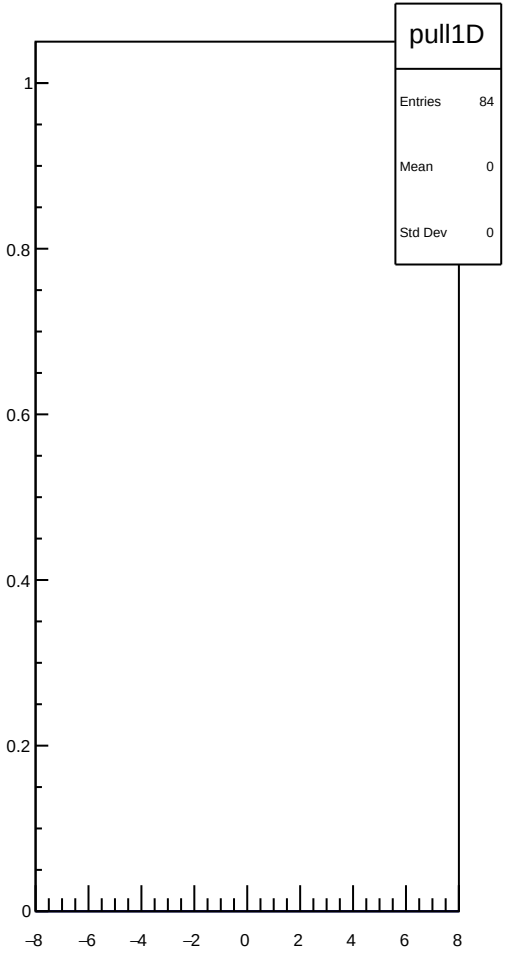

HALLA_p_mean vs run
χ² / ndf 8.41e+32 / 83
p0 2177 ± 1.091e−16
2194
2192
2190
2188
2186
2184
2182
2180
2178
2176
pull
Entries 84
Mean 2.622e+09
Std Dev 2.622e+09
×10¹⁵
16
14
12
10
8
6
4
2
0
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

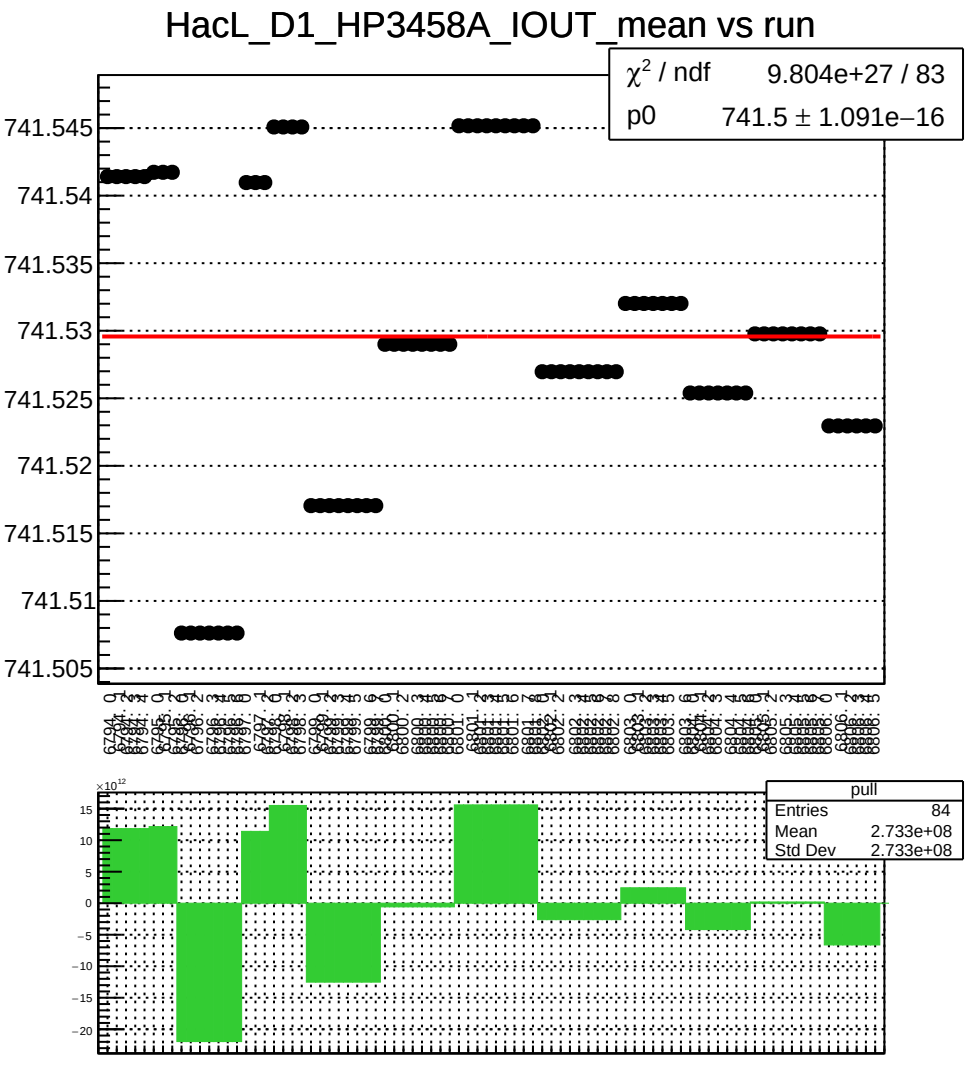

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.002e+23 / 83
p0 −7.865e−05 ± 1.091e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
80
60
40
20
0
−20
pull
Entries 84
Mean −8.893e+09
Std Dev 8.893e+09

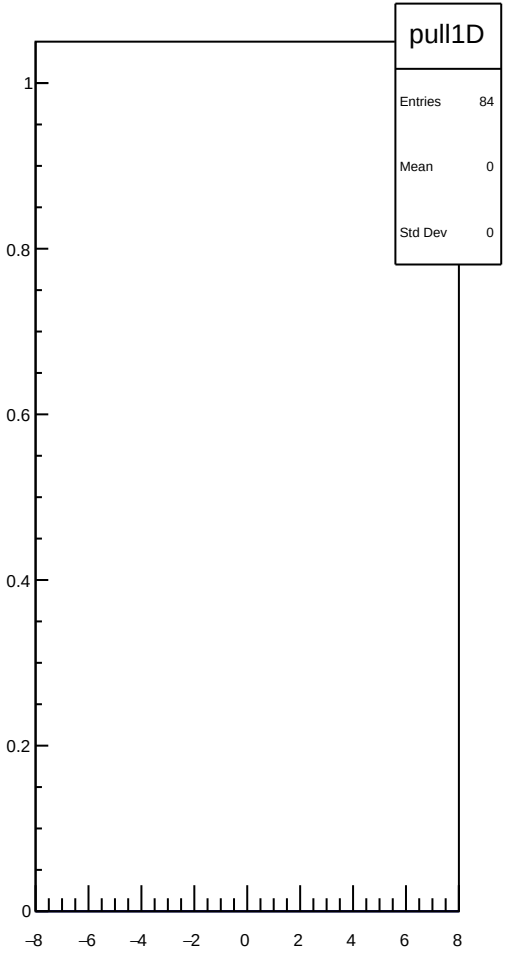

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

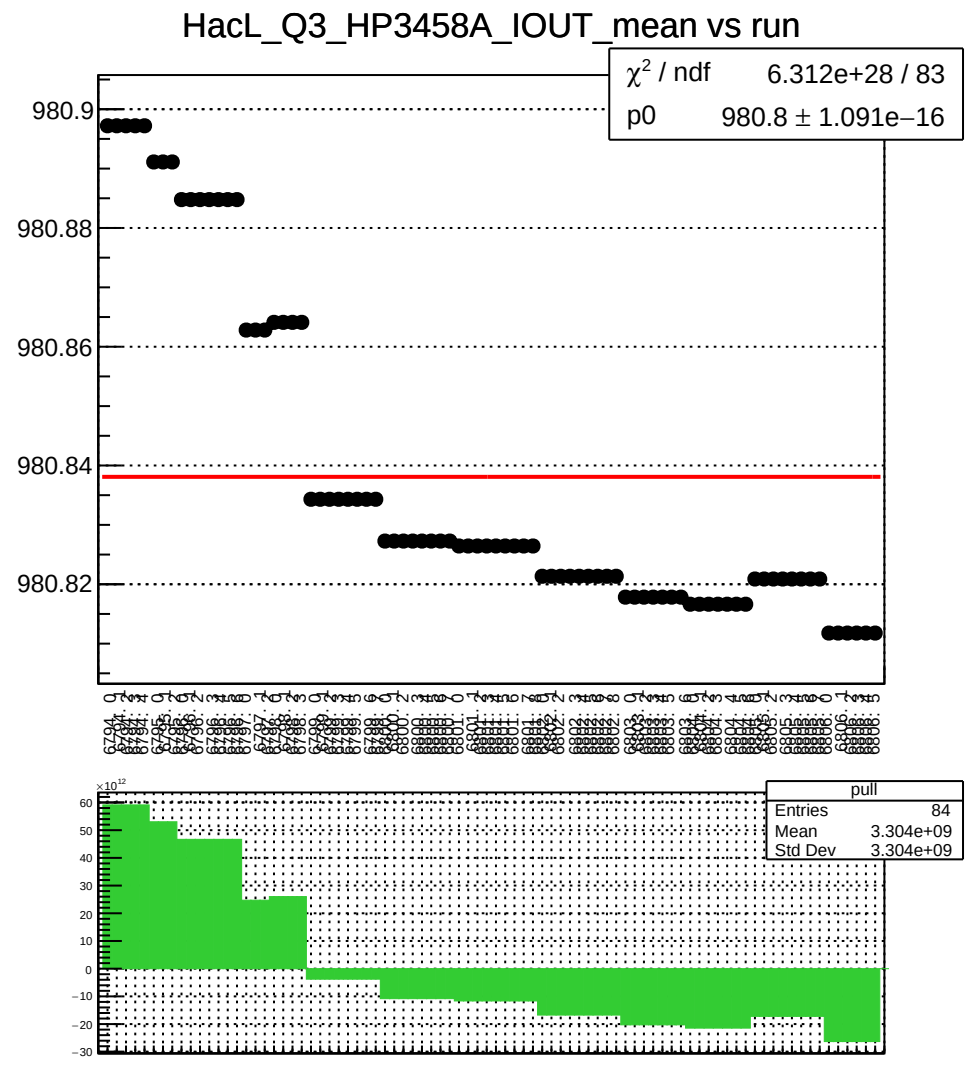

MQ171LM_mean vs run
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
×10⁻³
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean 0.01735
Std Dev 6.16e−10

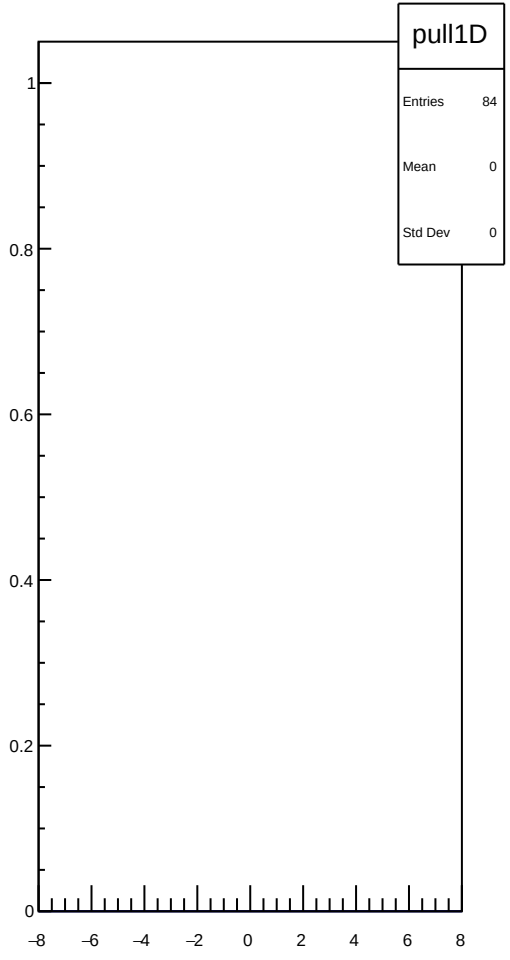

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.908e+26 / 83
p0 931.7 ± 1.091e−16
931.725
931.724
931.723
931.722
931.721
931.72
931.719
931.718
931.717
931.716
pull
Entries 84
Mean −3.571e+08
Std Dev 3.571e+08
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000

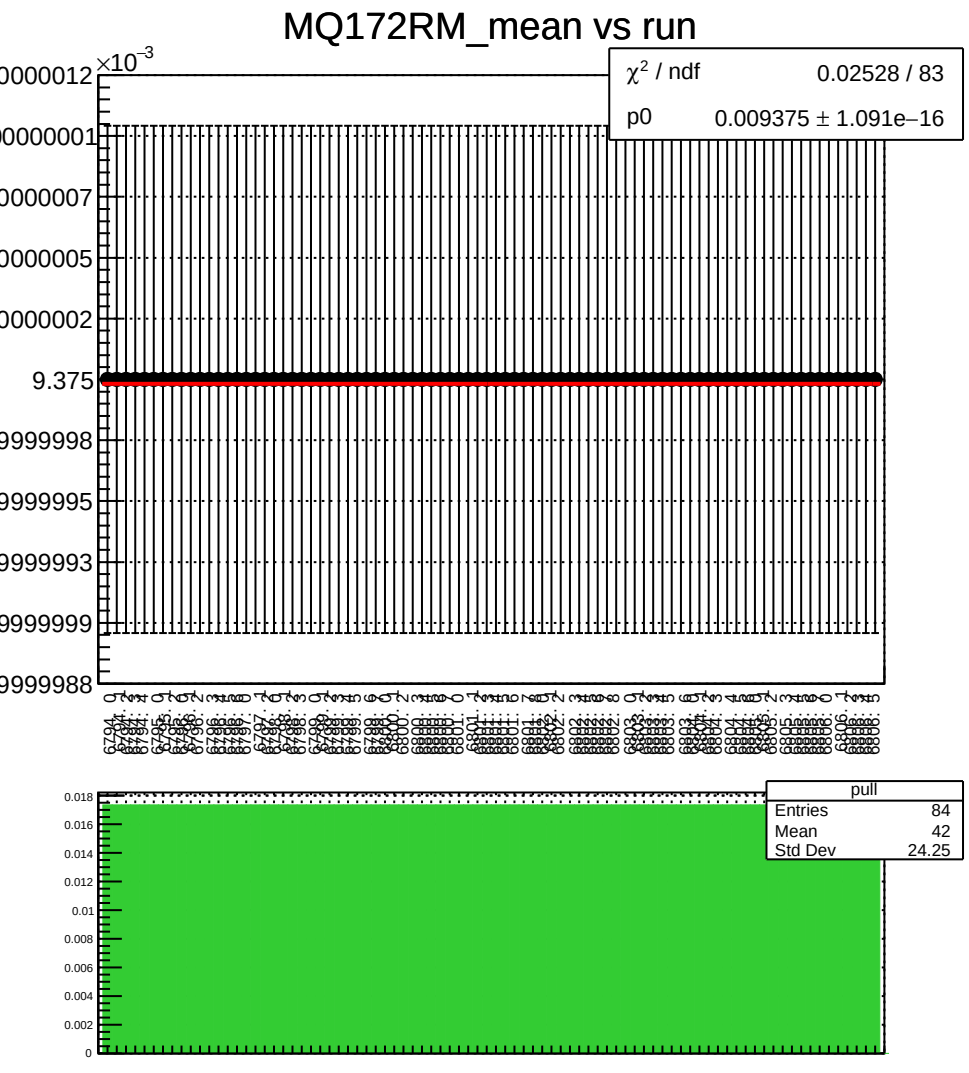

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

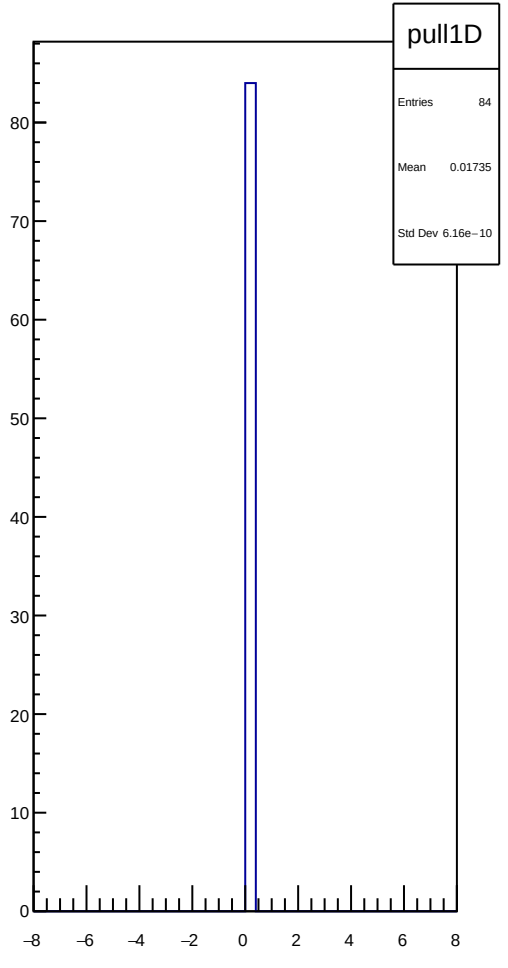

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 9.804e+27 / 83
p0 741.5 ± 1.091e−16
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
741.505
pull
Entries 84
Mean 2.733e+08
Std Dev 2.733e+08
×10¹²
15
10
5
0
−5
−10
−15
−20

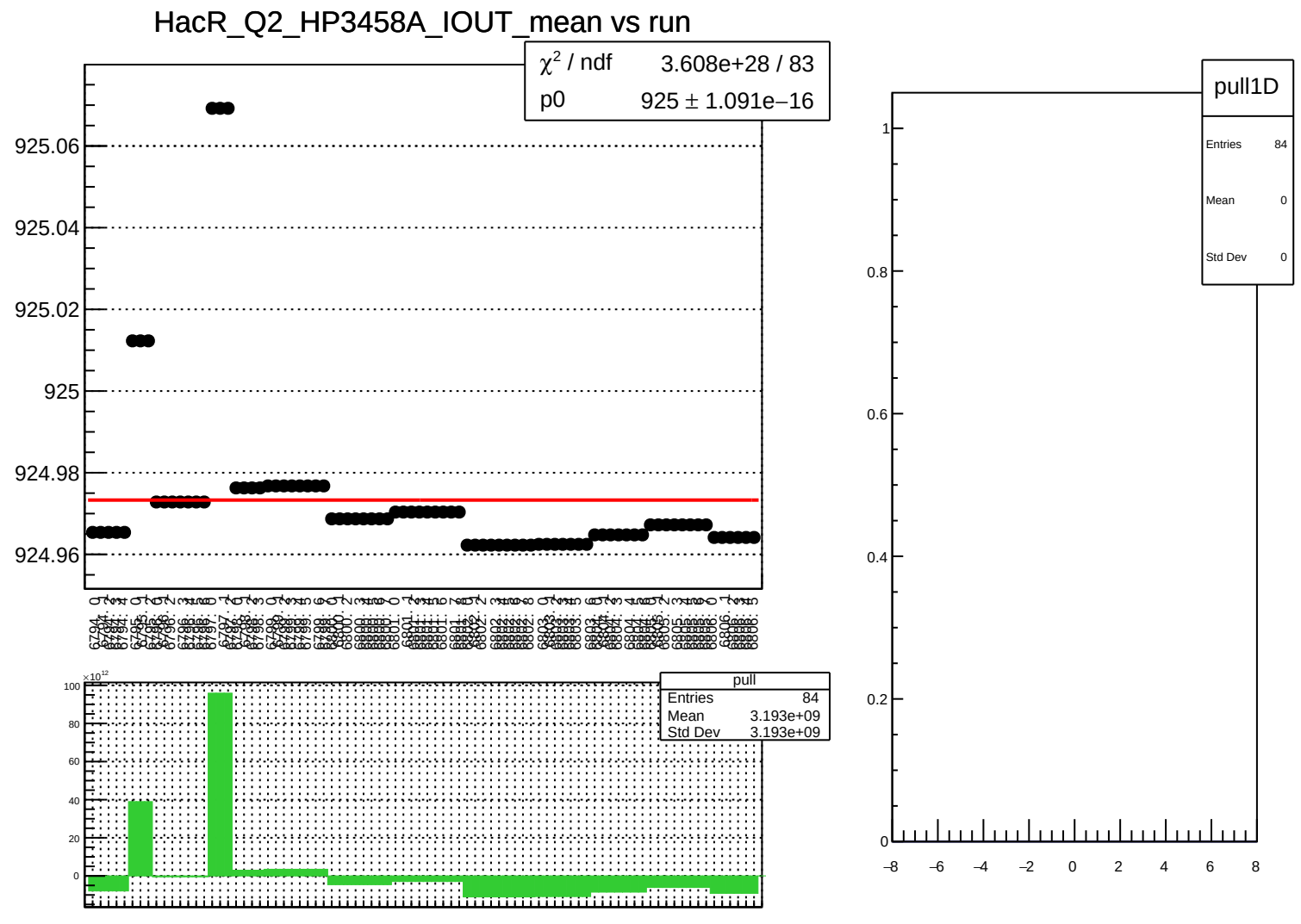

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

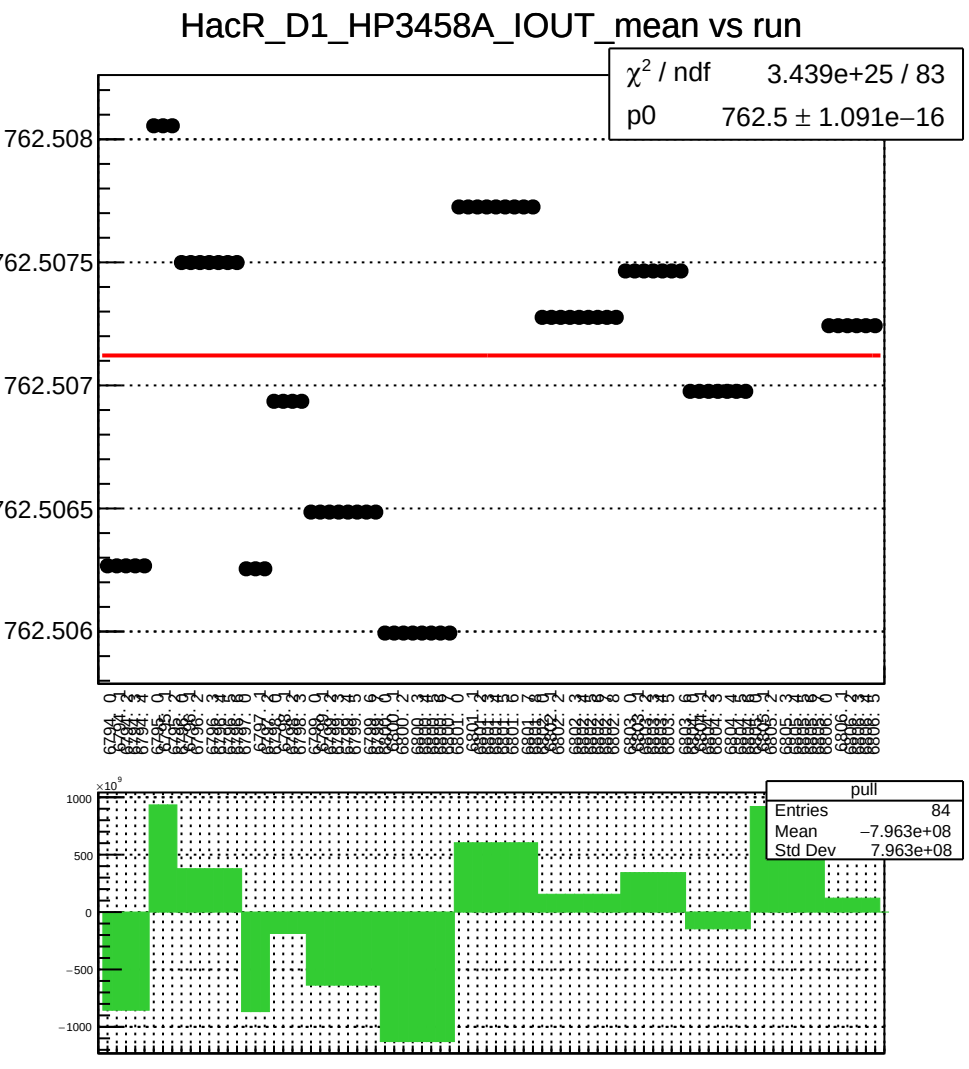

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 6.312e+28 / 83
p0 980.8 ± 1.091e−16
980.9
980.88
980.86
980.84
980.82
pull
Entries 84
Mean 3.304e+09
Std Dev 3.304e+09
×10¹²
60
50
40
30
20
10
0
−10
−20
−30

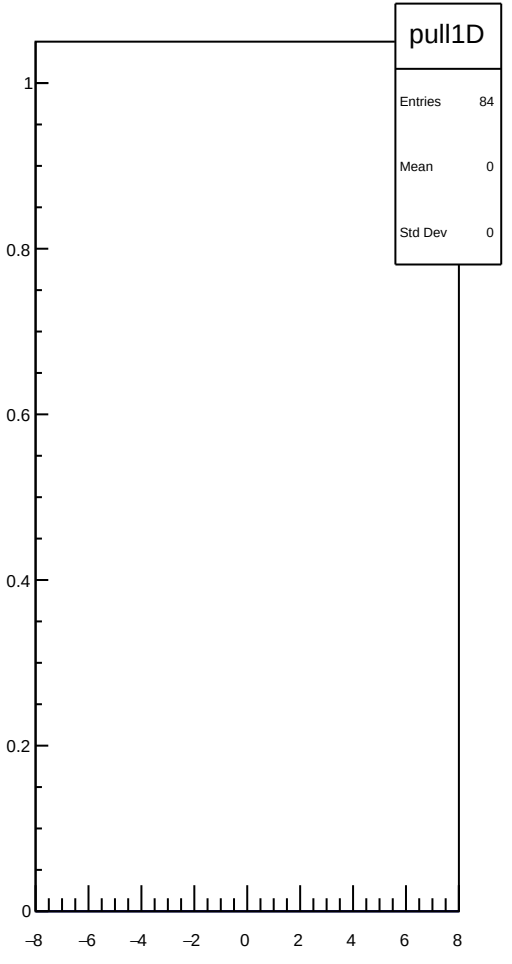

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

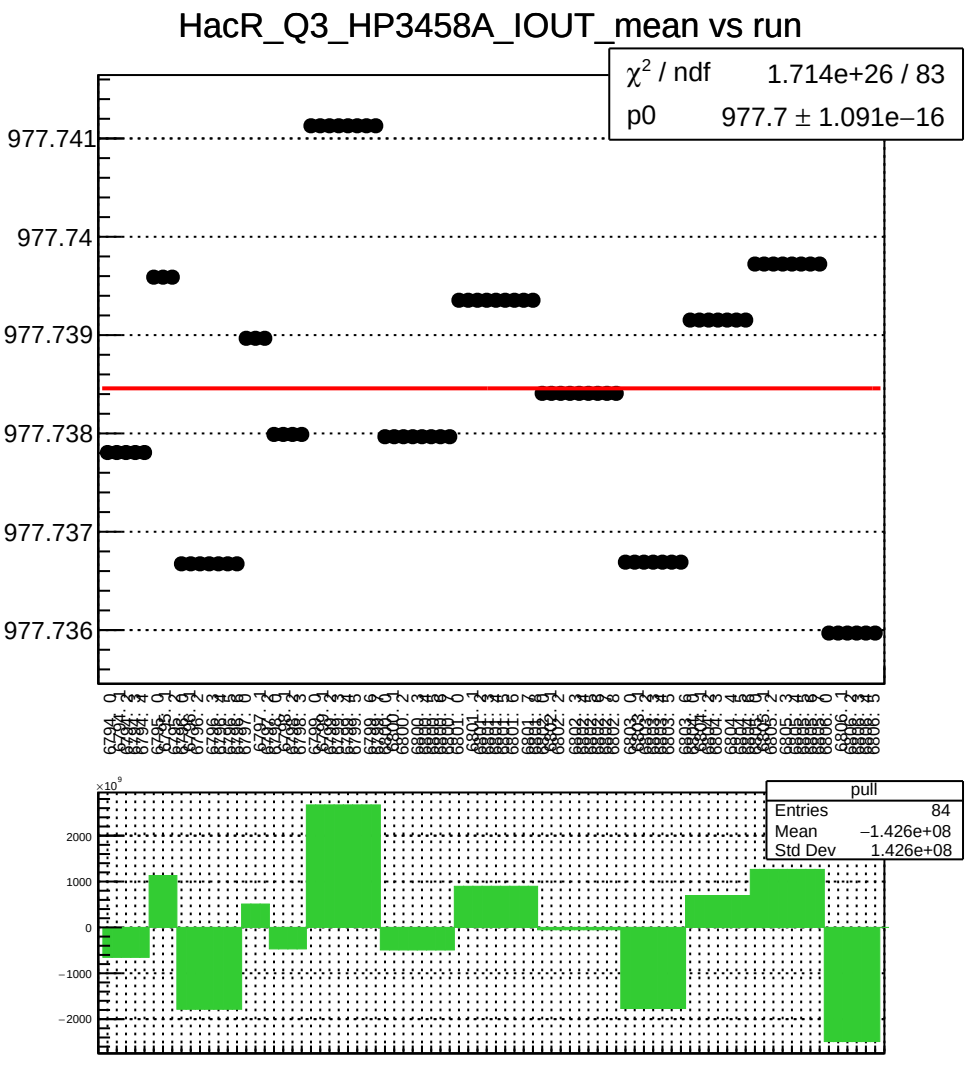

MQ172RM_mean vs run
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
×10⁻³
9.375
pull
Entries 84
Mean 42
Std Dev 24.25

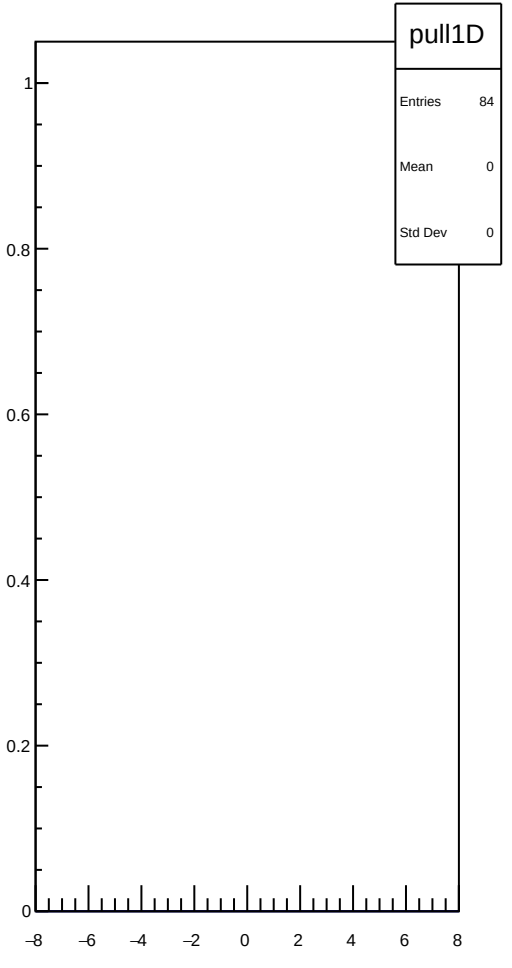

pull1D
Entries 84
Mean 0.01735
Std Dev 6.16e−10

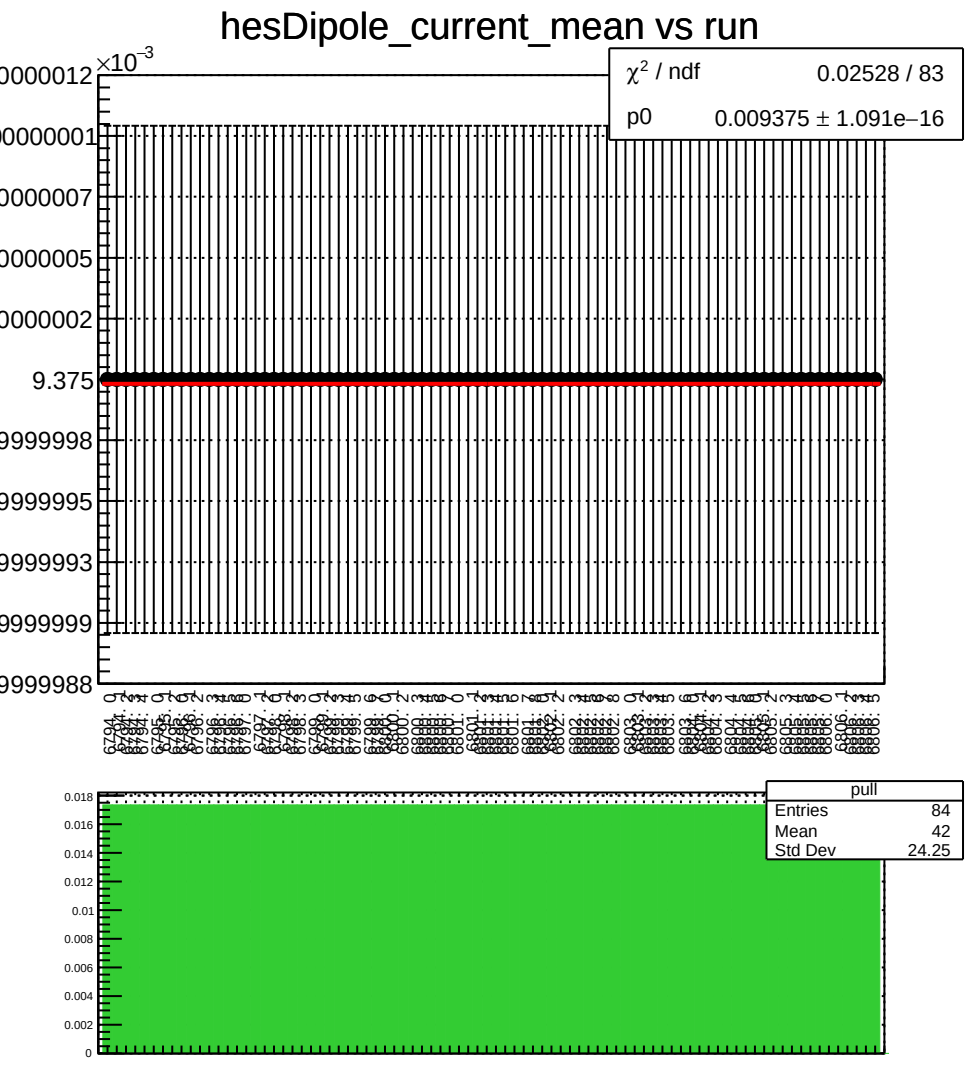

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.608e+28 / 83
p0 925 ± 1.091e−16
925.06
925.04
925.02
925
924.98
924.96
pull
Entries 84
Mean 3.193e+09
Std Dev 3.193e+09
pull1D
Entries 84
Mean 0
Std Dev 0

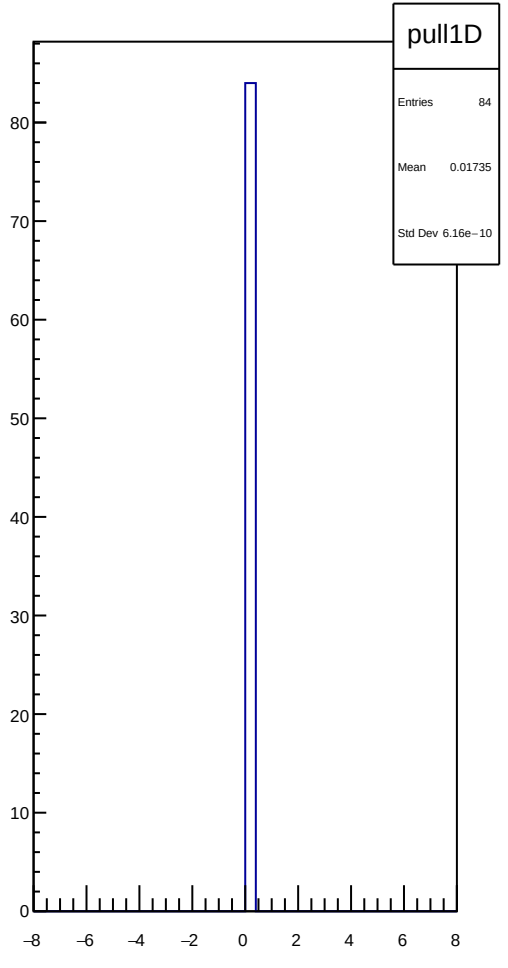

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.439e+25 / 83
p0 762.5 ± 1.091e−16
762.508
762.5075
762.507
762.5065
762.506
pull
Entries 84
Mean −7.963e+08
Std Dev 7.963e+08
×10⁹
1000
500
0
−500
−1000

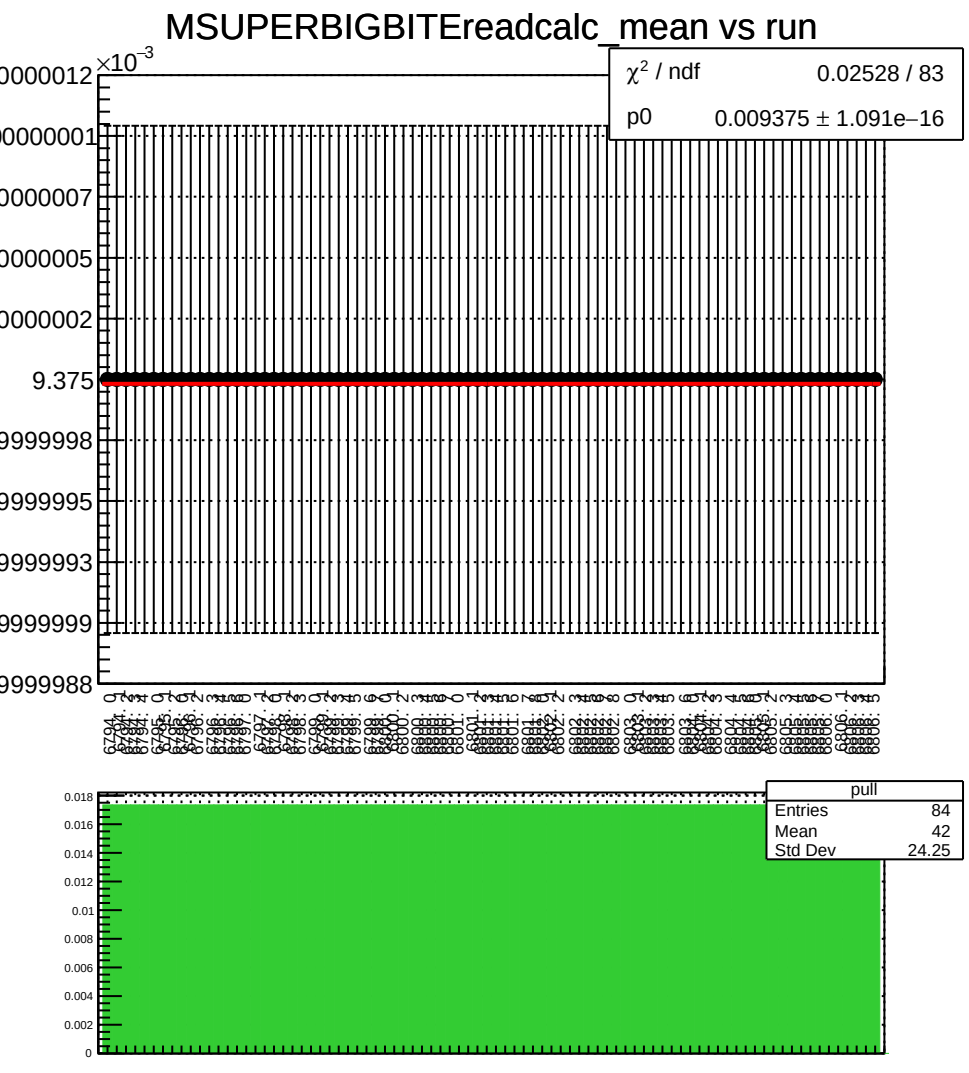

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

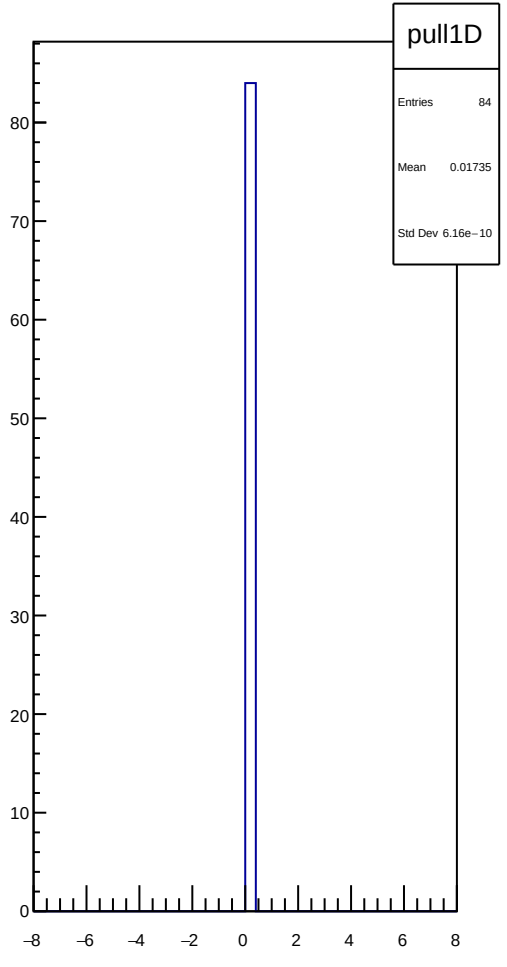

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.714e+26 / 83
p0 977.7 ± 1.091e−16
977.741
977.74
977.739
977.738
977.737
977.736
×10⁹
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −1.426e+08
Std Dev 1.426e+08

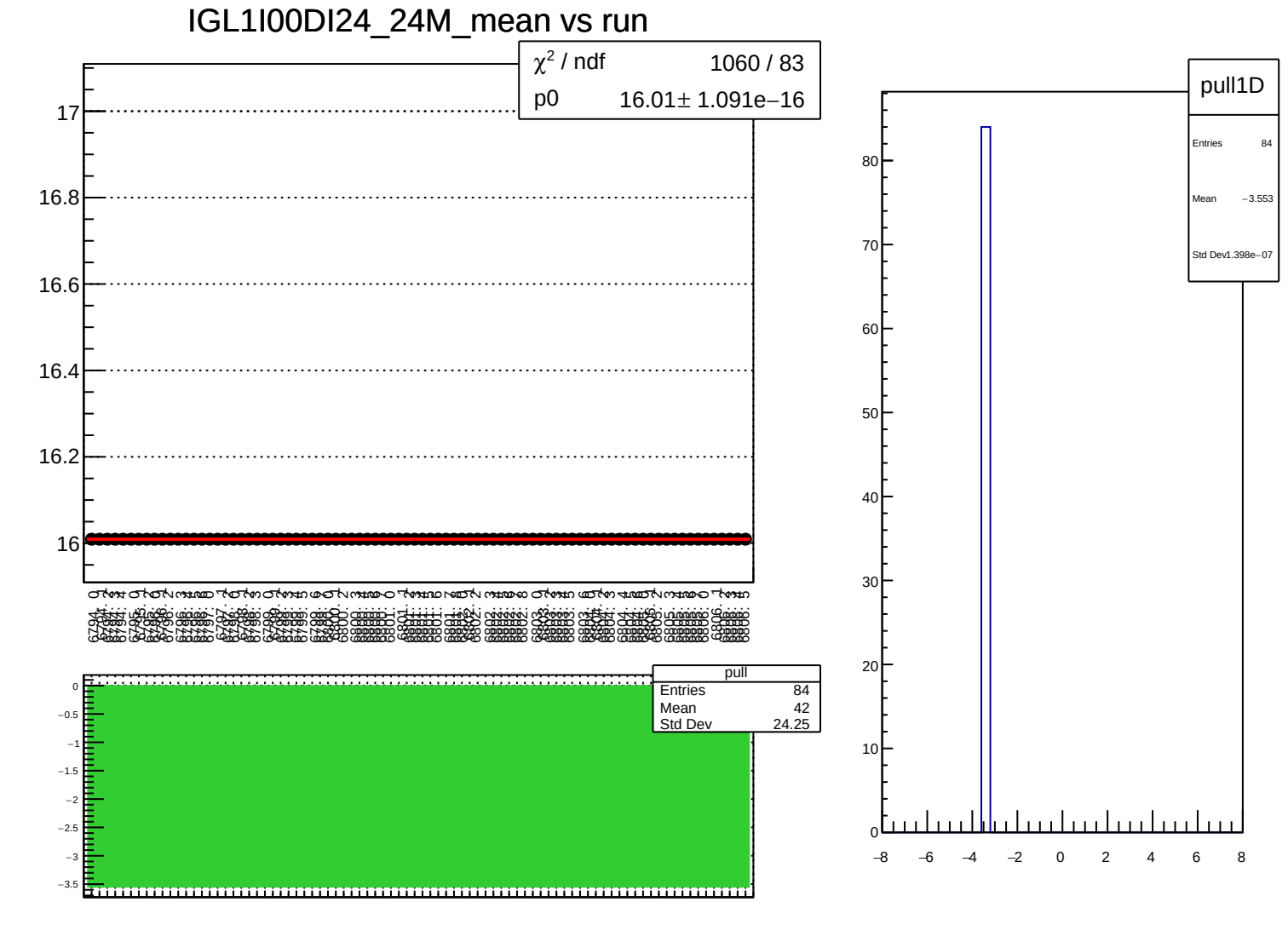

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

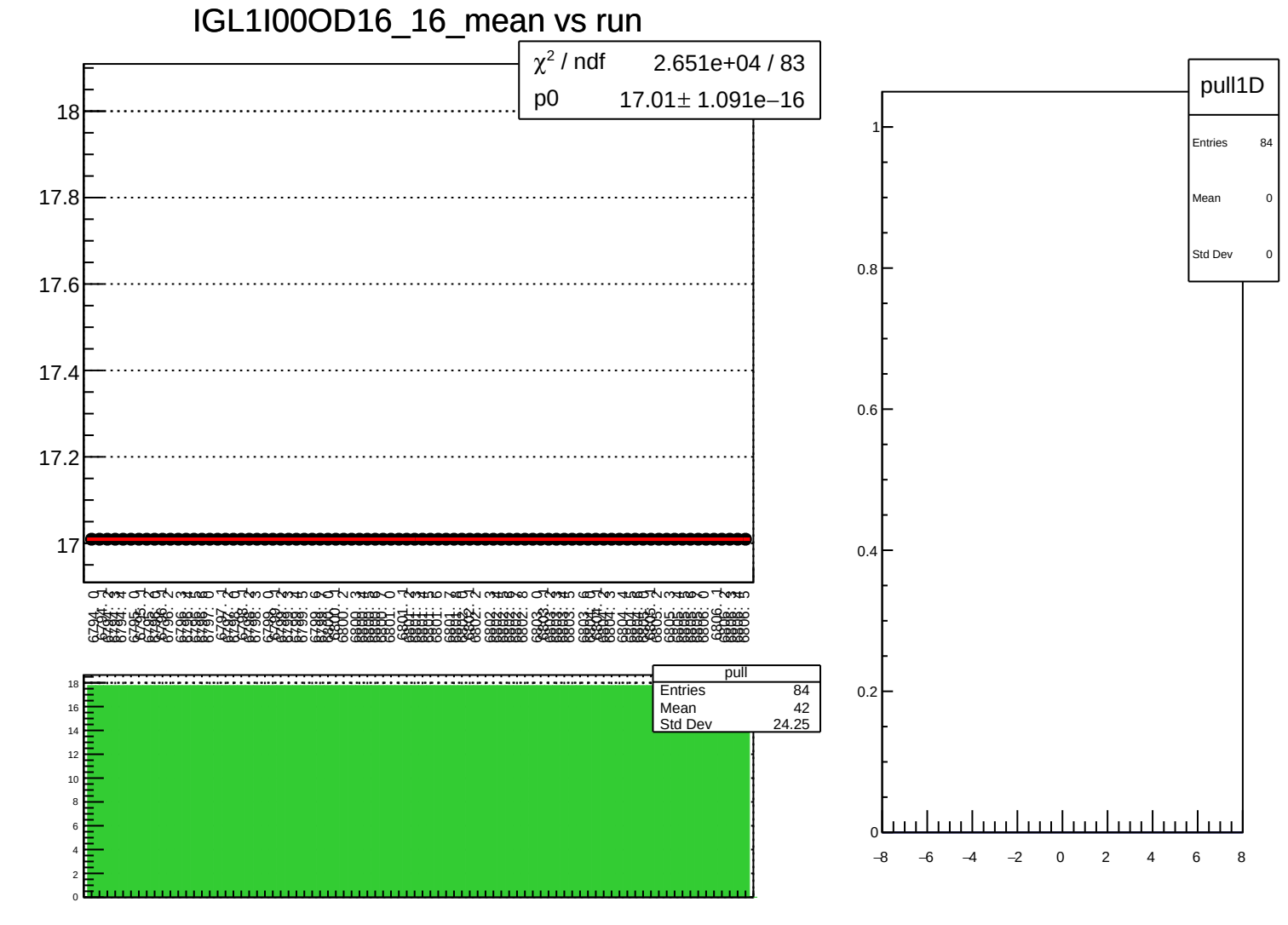

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
9.375
pull
Entries 84
Mean 42
Std Dev 24.25

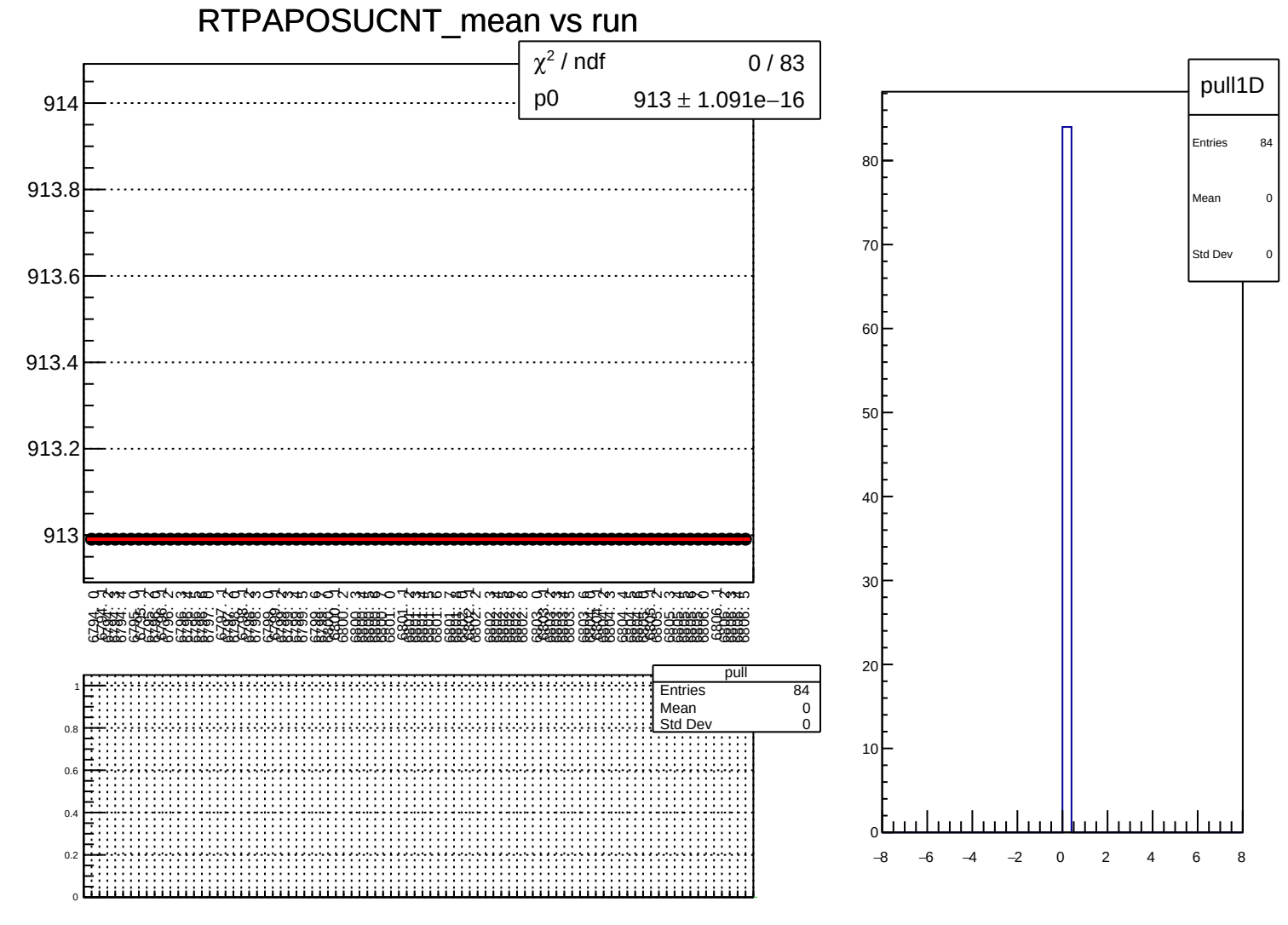

pull1D
Entries 84
Mean 0.01735
Std Dev 6.16e−10

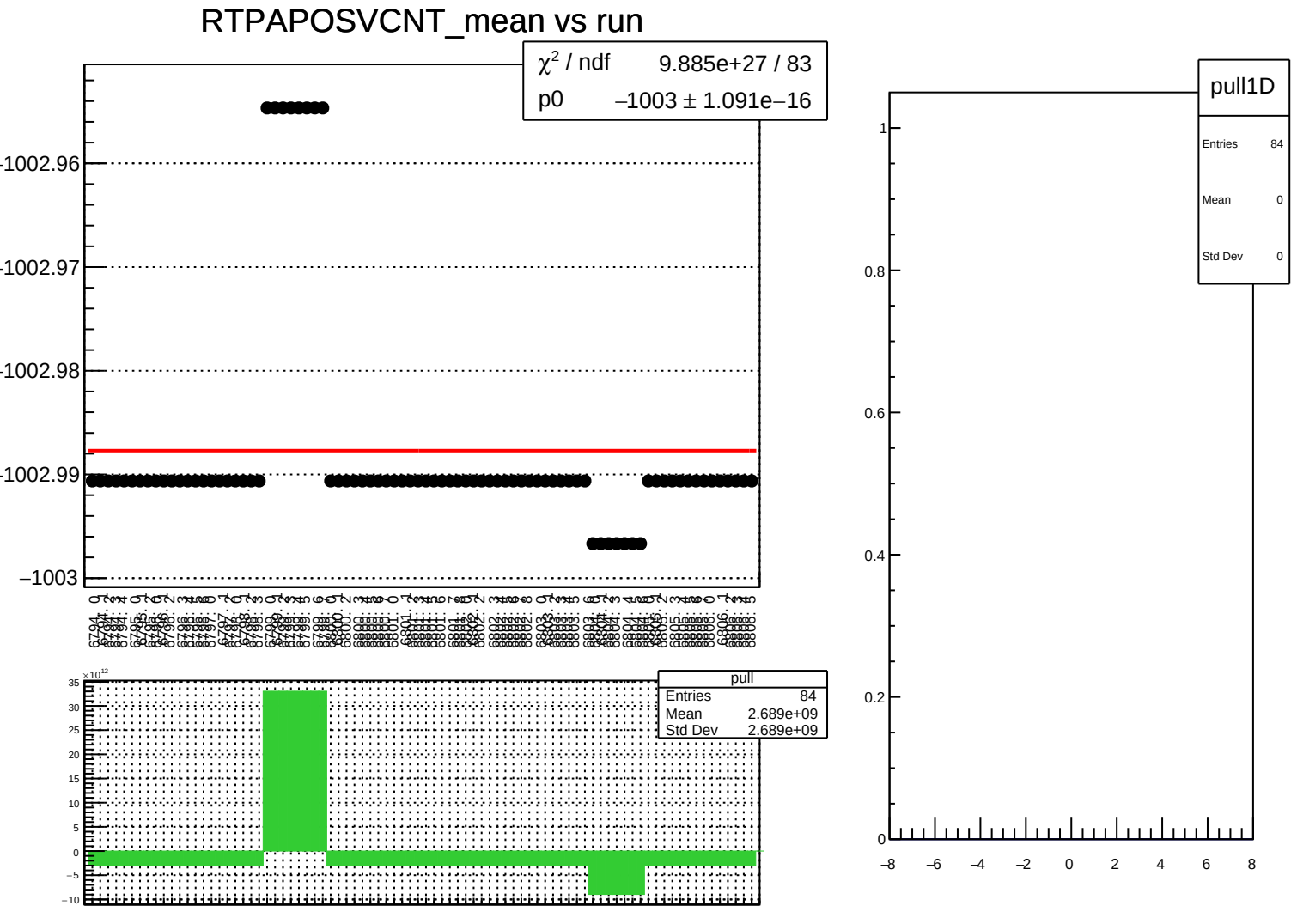

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
×10⁻³
pull
Entries 84
Mean 42
Std Dev 24.25


pull1D
Entries 84
Mean 0.01735
Std Dev 6.16e−10


IGL1I00DI24_24M_mean vs run
χ² / ndf 1060 / 83
p0 16.01± 1.091e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 84
Mean 42
Std Dev 24.25
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 84
Mean −3.553
Std Dev1.398e−07
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00OD16_16_mean vs run
χ² / ndf 2.651e+04 / 83
p0 17.01± 1.091e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 0 / 83
p0 913 ± 1.091e−16
914
913.8
913.6
913.4
913.2
913
pull
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 84
Mean 0
Std Dev 0
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 9.885e+27 / 83
p0 −1003 ± 1.091e−16
−1002.96
−1002.97
−1002.98
−1002.99
−1003
pull
Entries 84
Mean 2.689e+09
Std Dev 2.689e+09
×10¹²
35
30
25
20
15
10
5
0
−5
−10
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8