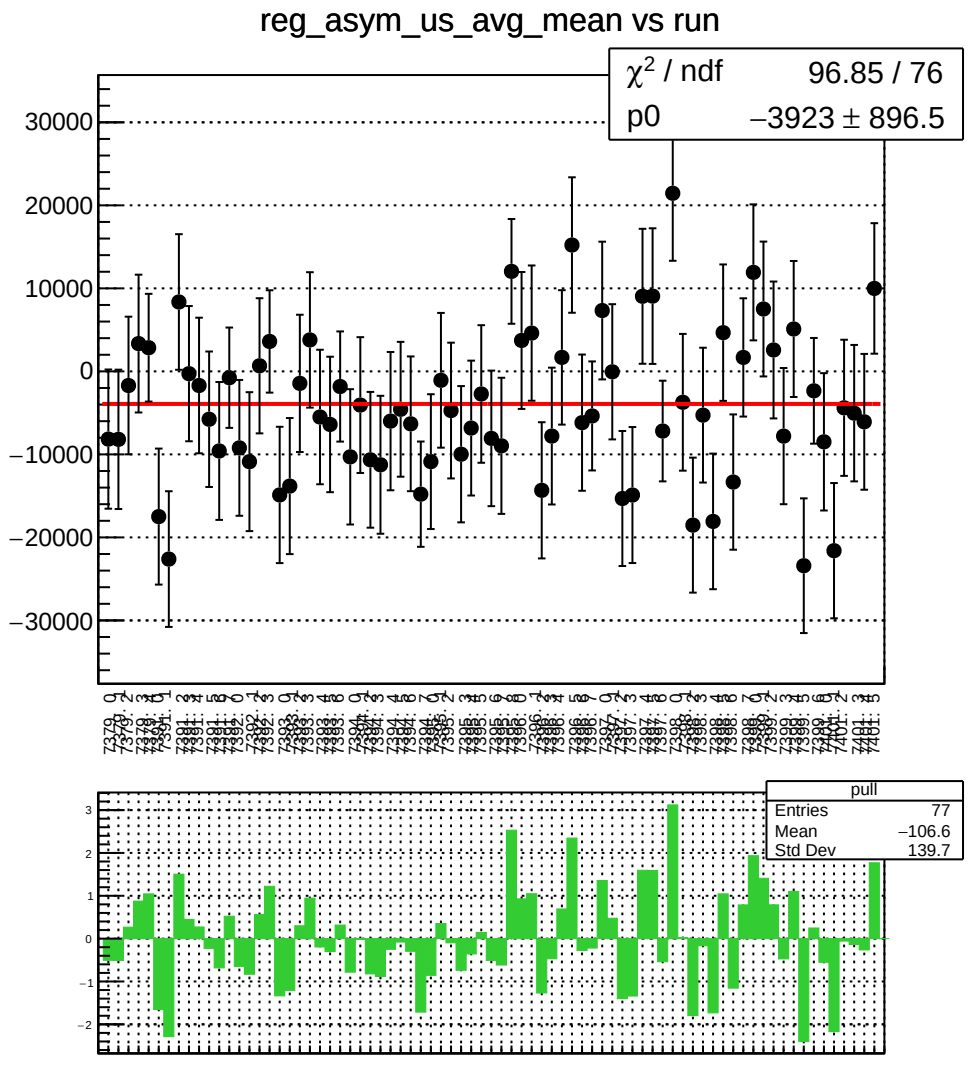
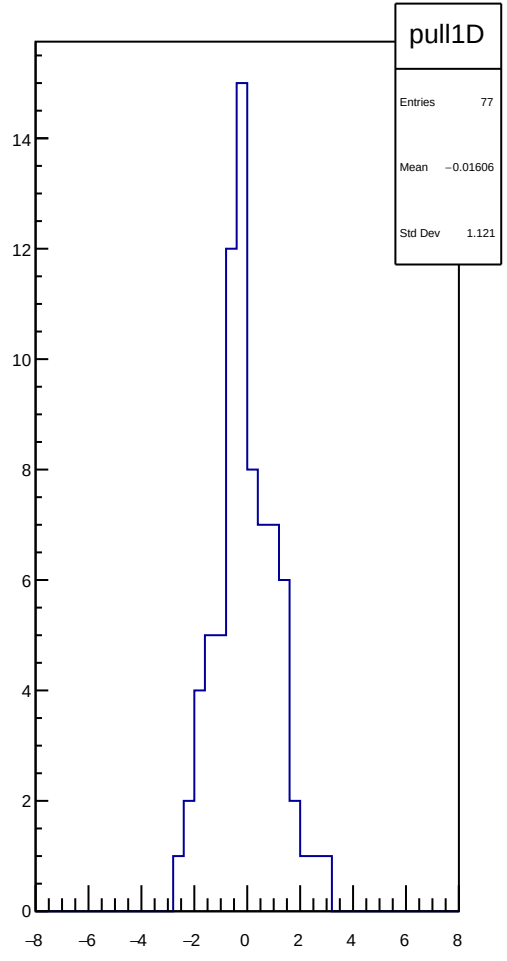
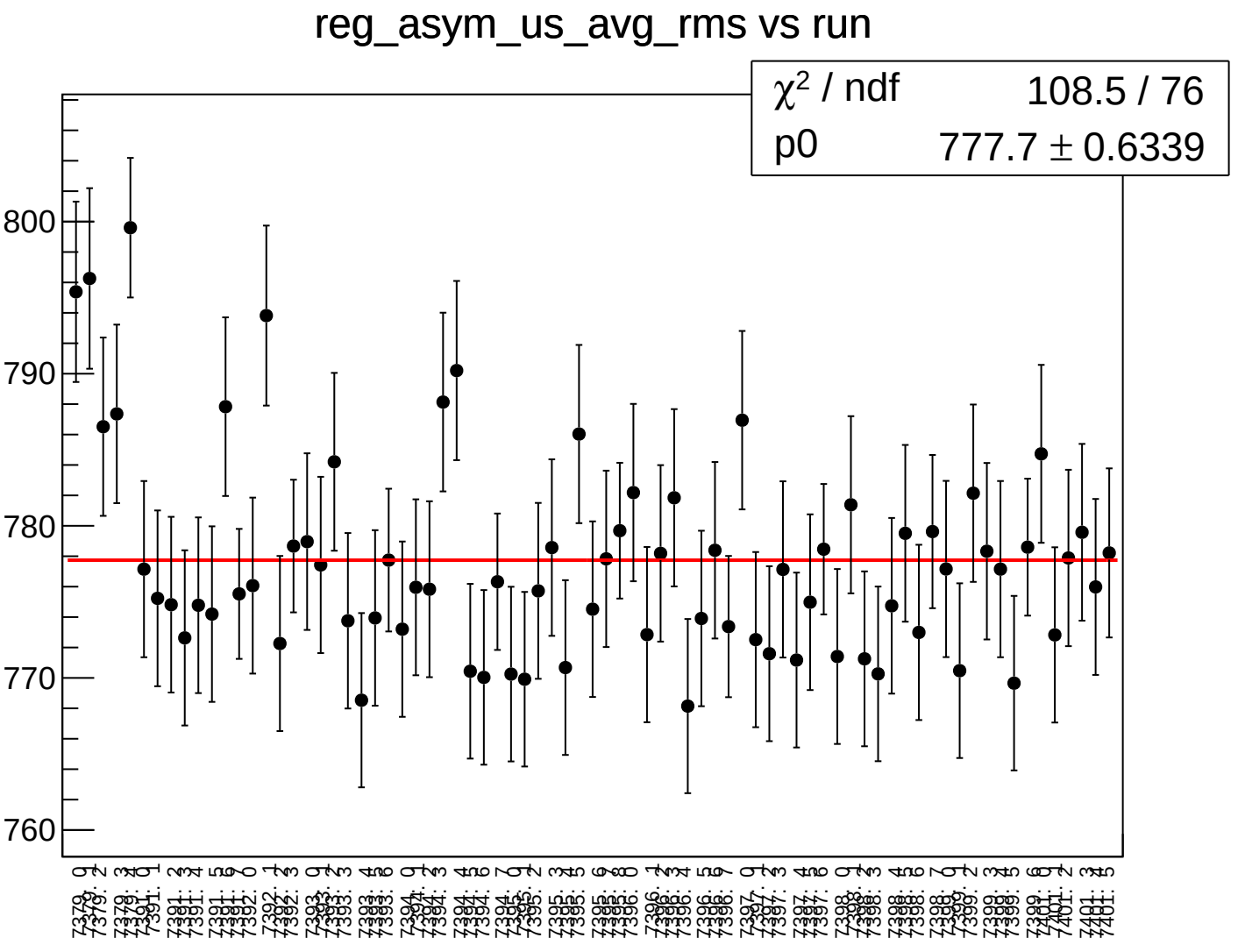
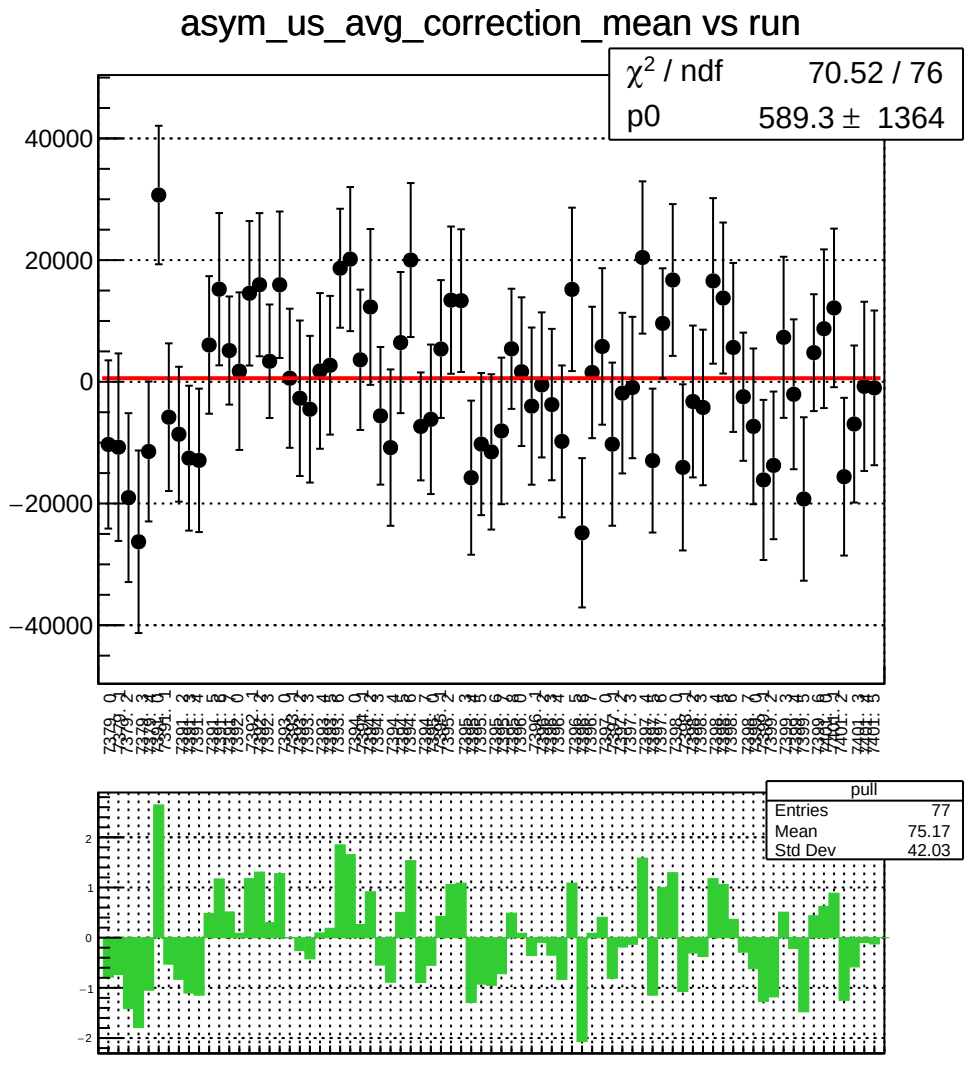
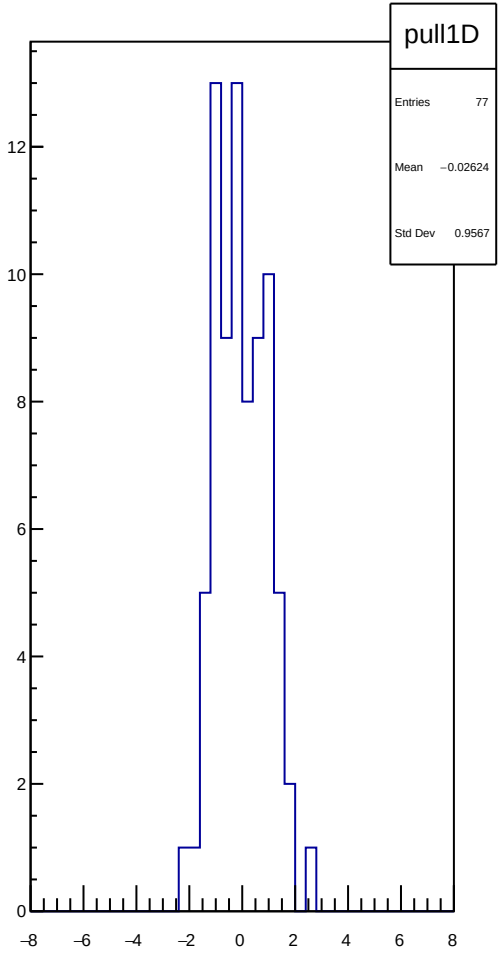
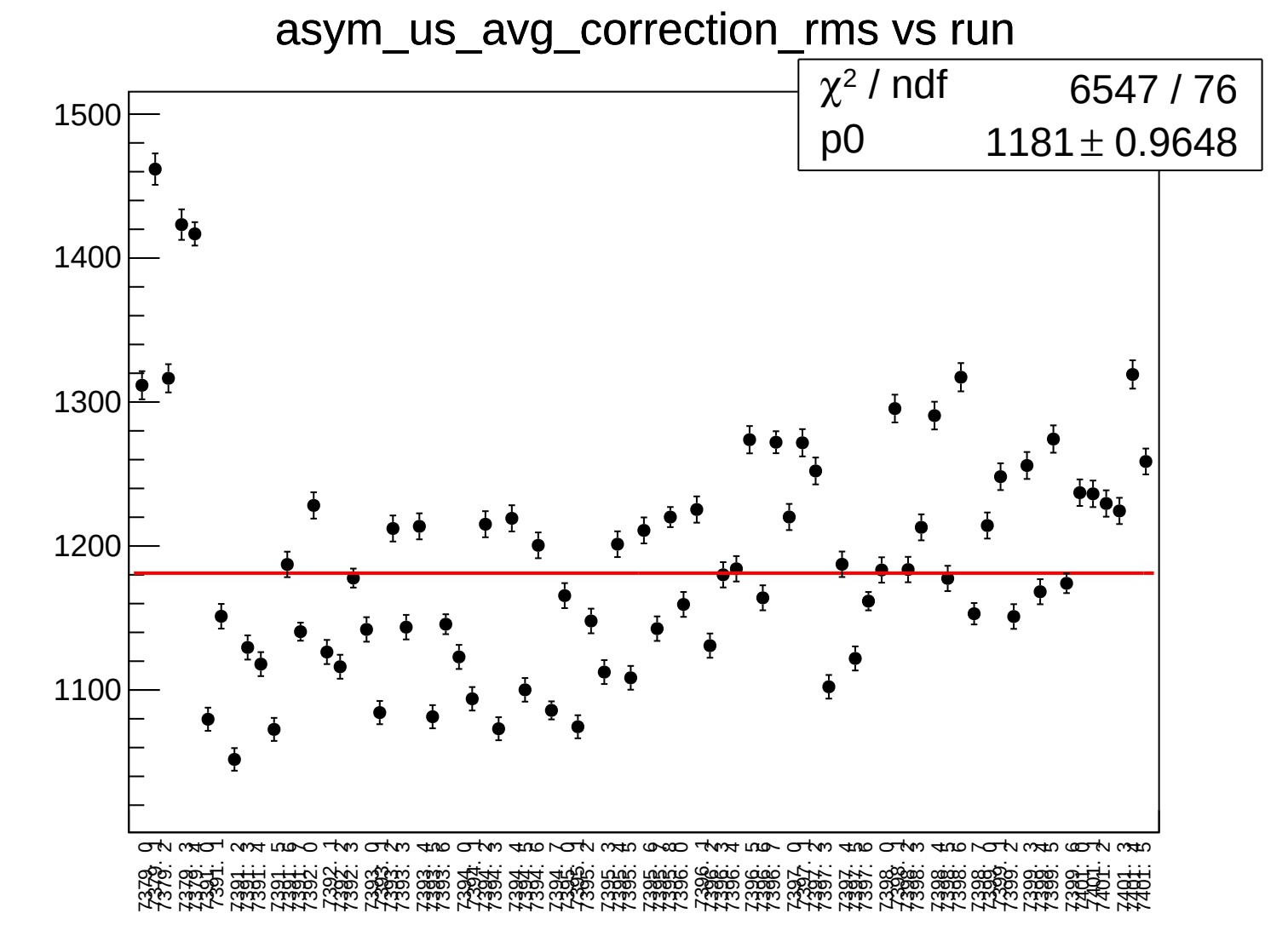

reg_asym_us_avg_mean vs run
χ² / ndf 96.85 / 76
p0 −3923 ± 896.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 77
Mean −106.6
Std Dev 139.7
3
2
1
0
−1
−2

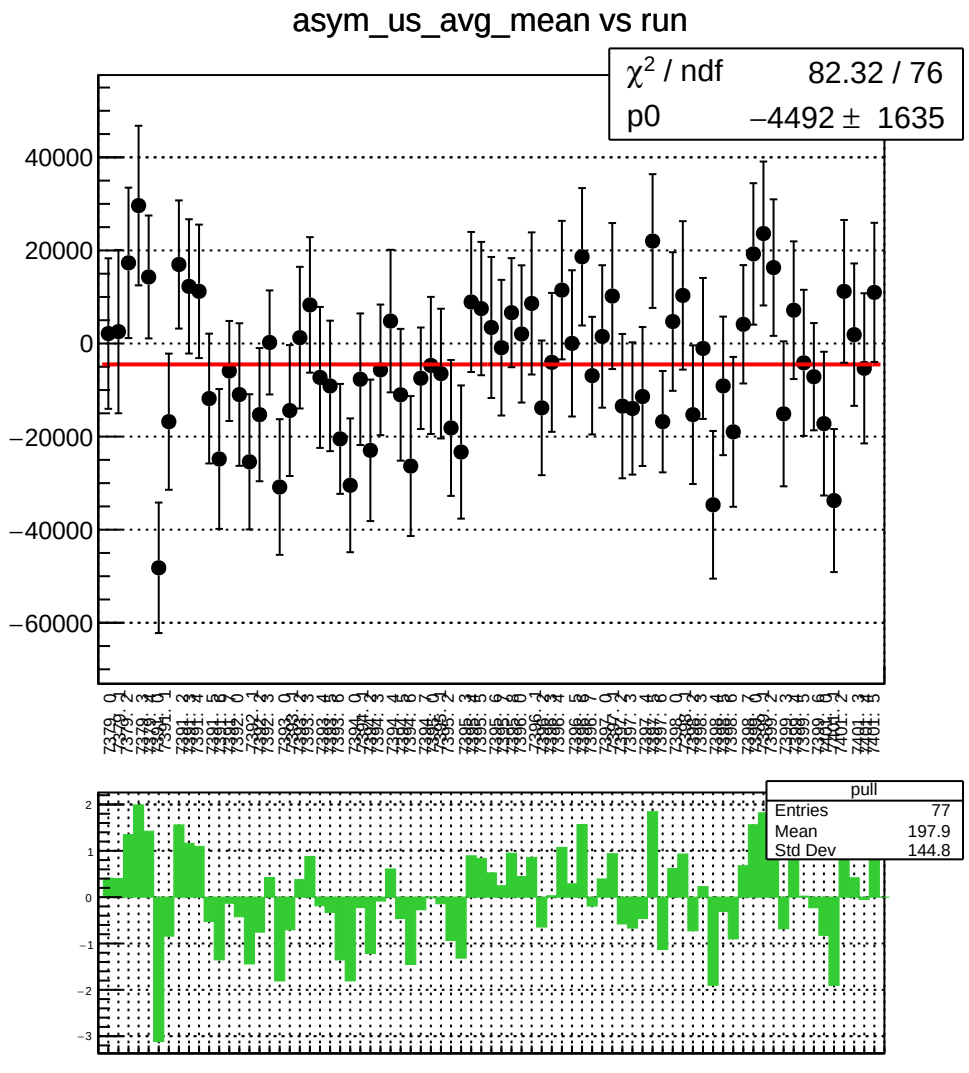

pull1D
Entries 77
Mean −0.01606
Std Dev 1.121
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

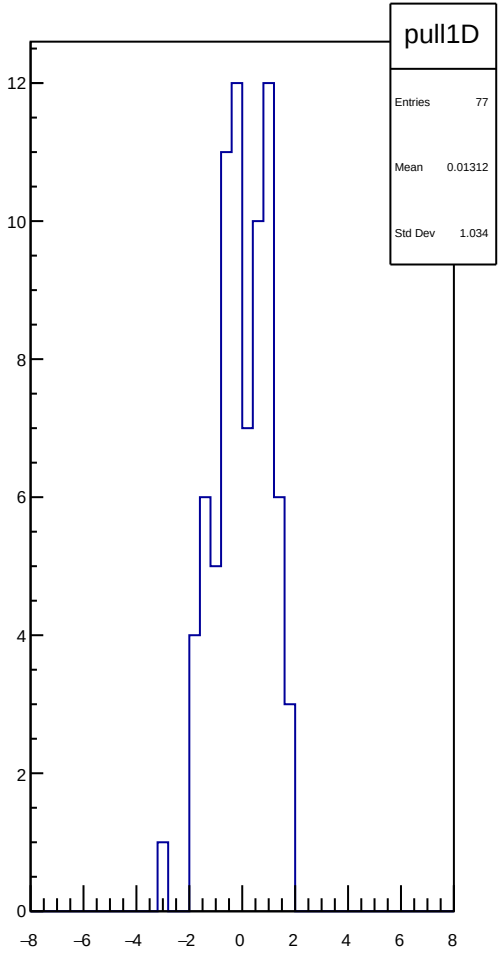

reg_asym_us_avg_rms vs run
χ² / ndf 108.5 / 76
p0 777.7 ± 0.6339
800
790
780
770
760

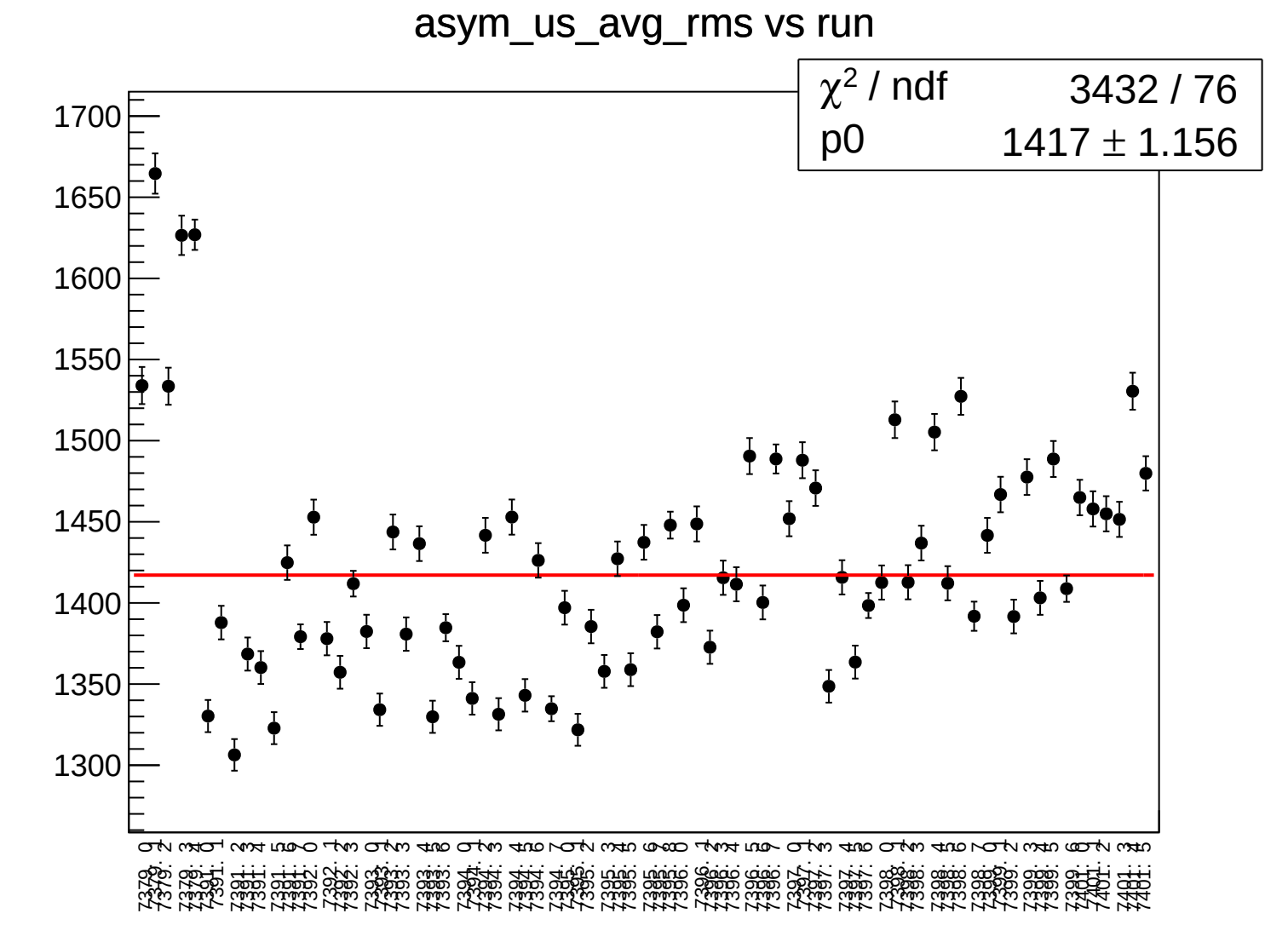

asym_us_avg_correction_mean vs run
χ² / ndf 70.52 / 76
p0 589.3 ± 1364
40000
20000
0
−20000
−40000
pull
Entries 77
Mean 75.17
Std Dev 42.03
2
1
0
−1
−2

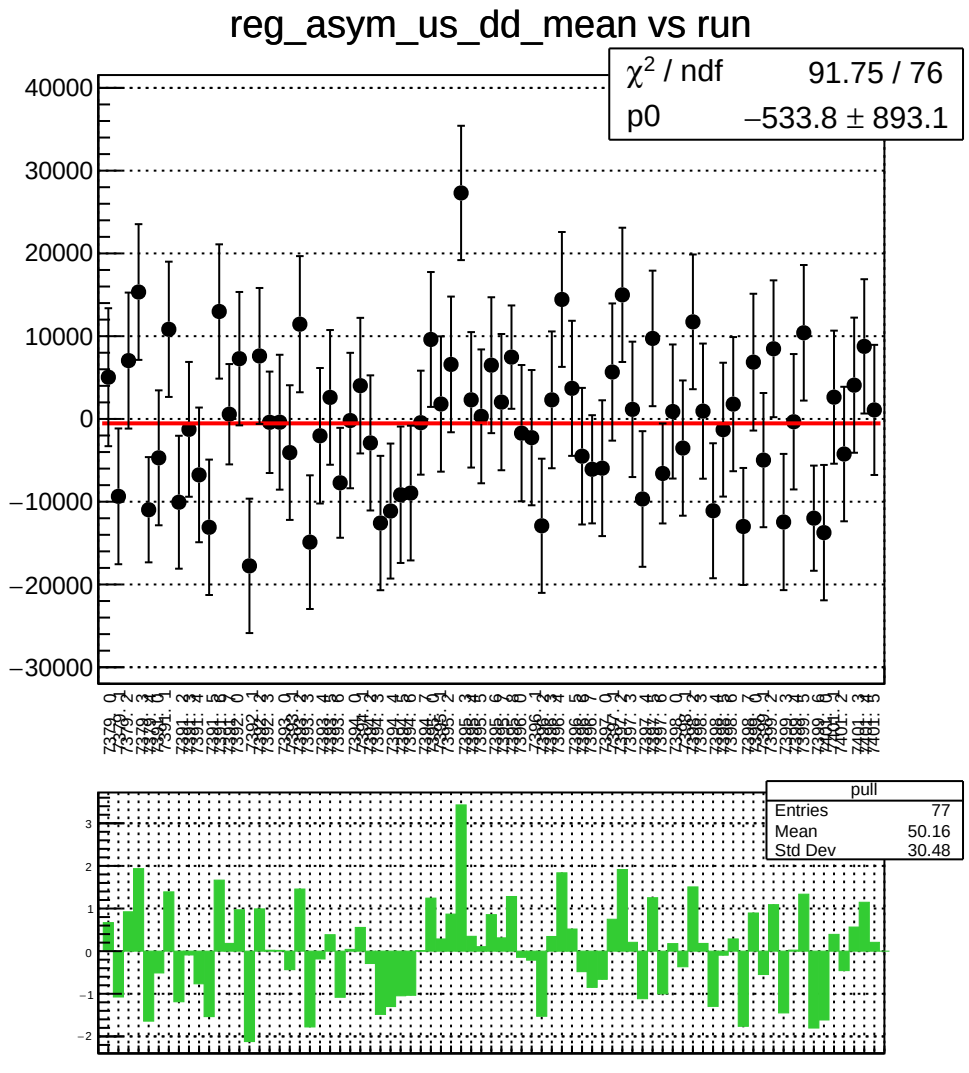

pull1D
Entries 77
Mean −0.02624
Std Dev 0.9567
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

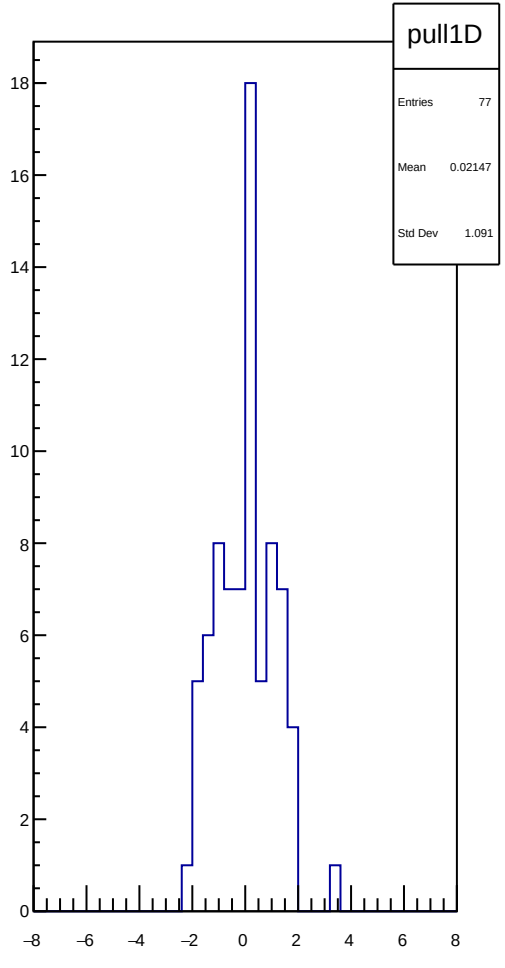

asym_us_avg_correction_rms vs run
χ² / ndf 6547 / 76
p0 1181 ± 0.9648
1500
1400
1300
1200
1100

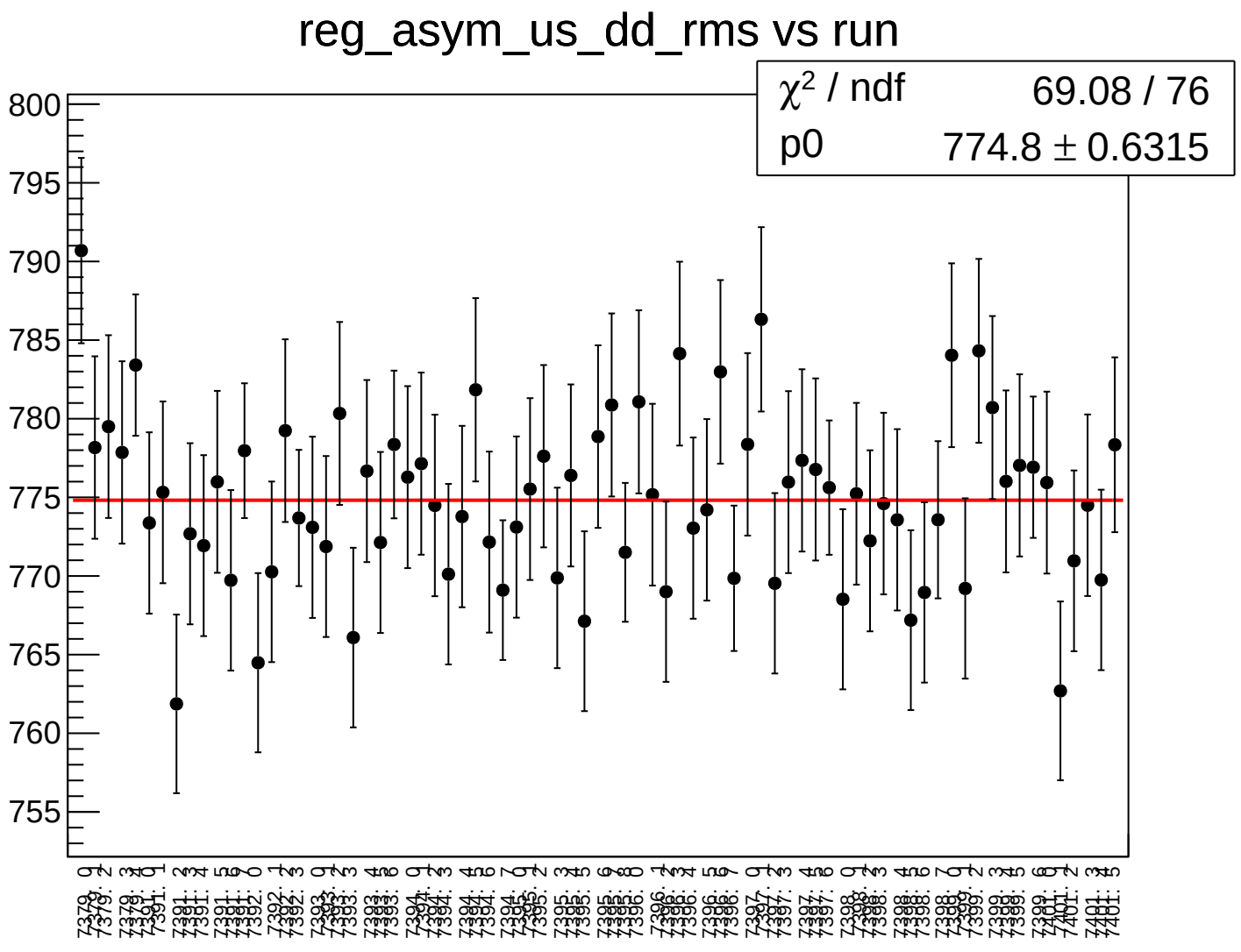

asym_us_avg_mean vs run
χ² / ndf 82.32 / 76
p0 −4492 ± 1635
40000
20000
0
−20000
−40000
−60000
pull
Entries 77
Mean 197.9
Std Dev 144.8
2
1
0
−1
−2
−3

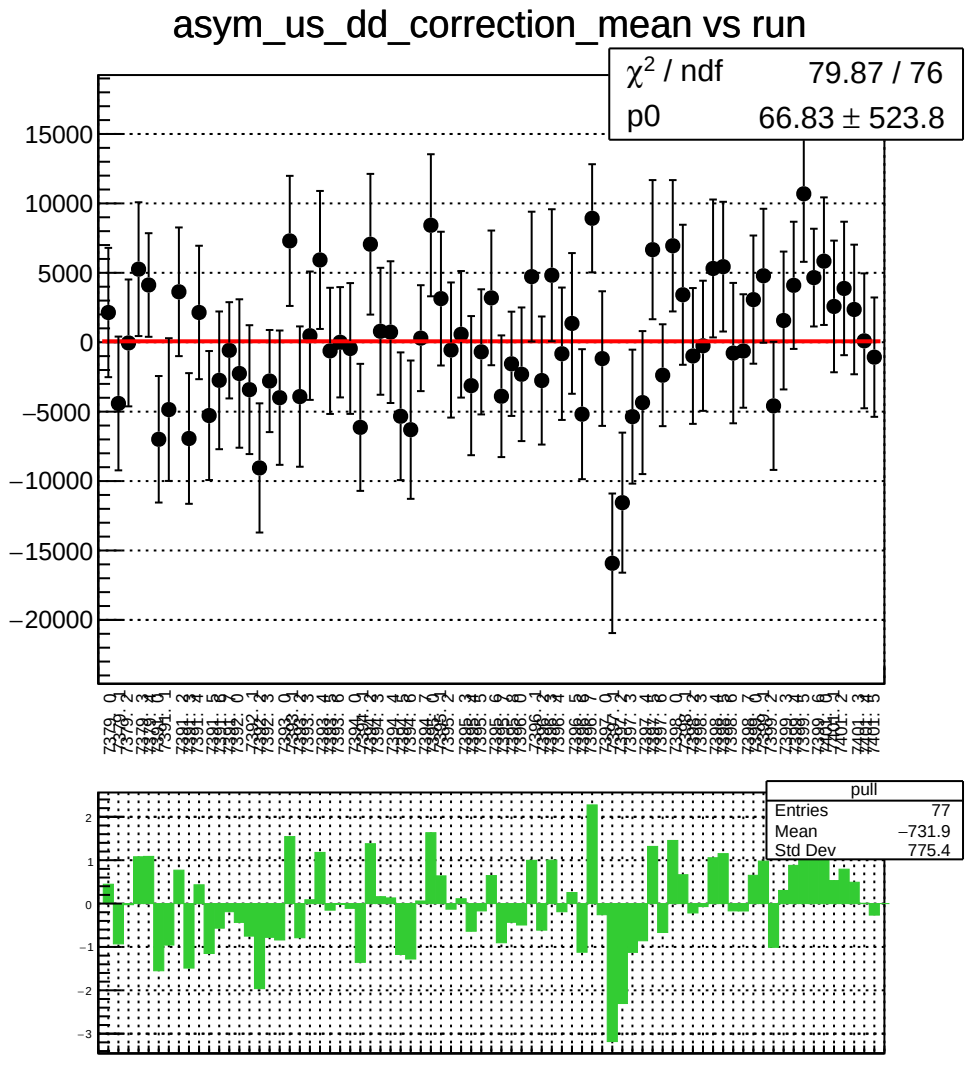

pull1D
Entries 77
Mean 0.01312
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

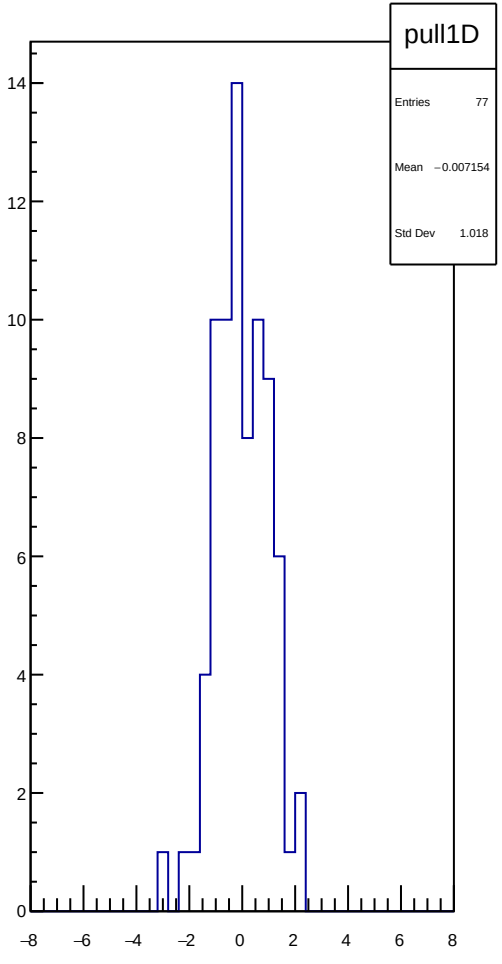

asym_us_avg_rms vs run
χ² / ndf 3432 / 76
p0 1417 ± 1.156
1700
1650
1600
1550
1500
1450
1400
1350
1300

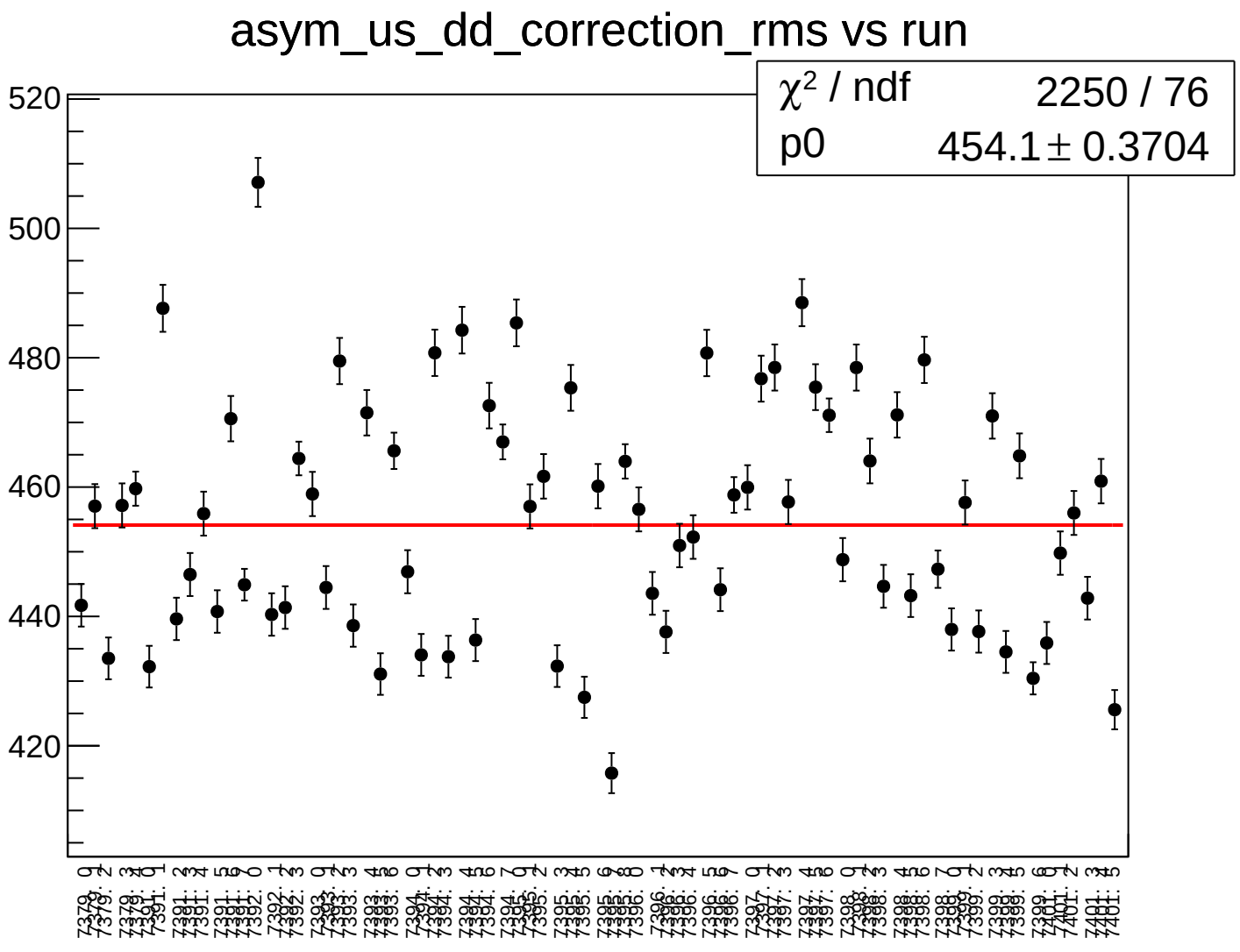

reg_asym_us_dd_mean vs run
χ² / ndf 91.75 / 76
p0 −533.8 ± 893.1
pull
Entries 77
Mean 50.16
Std Dev 30.48

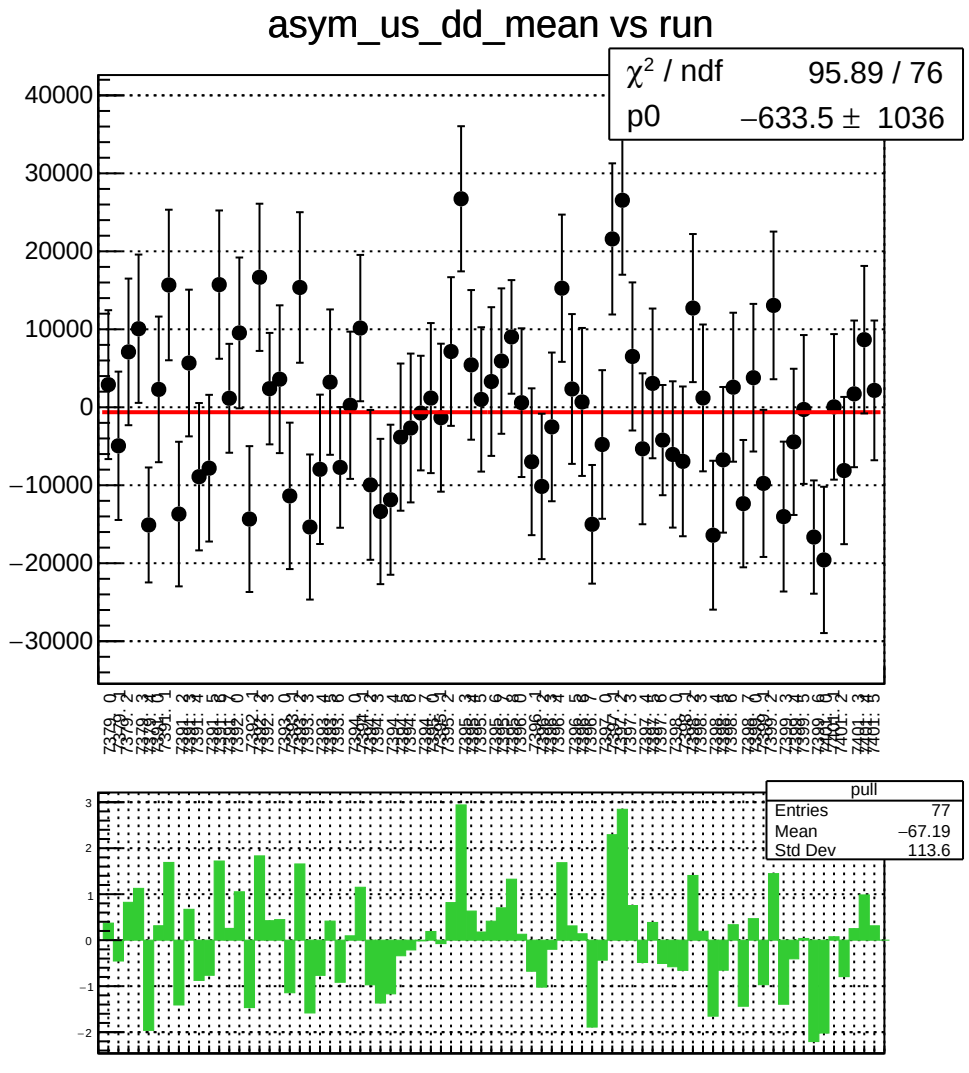

pull1D
Entries 77
Mean 0.02147
Std Dev 1.091

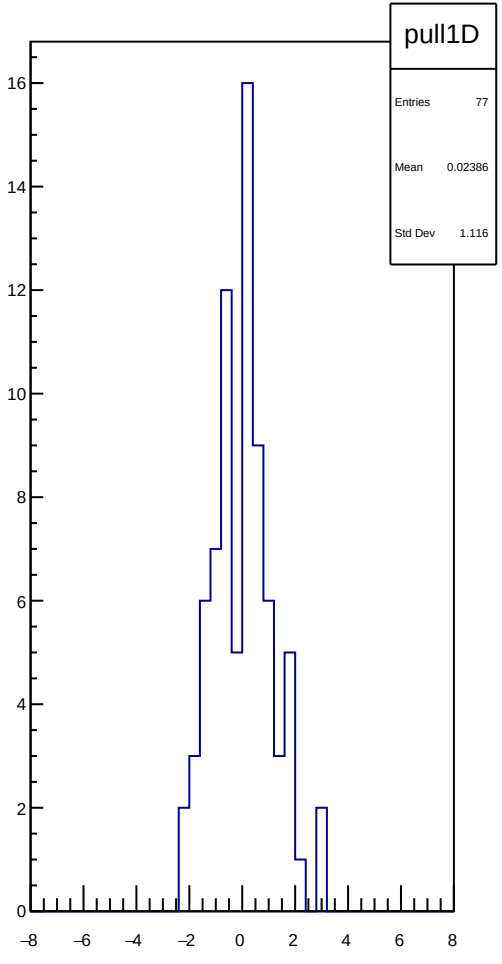

reg_asym_us_dd_rms vs run
χ^2 / ndf 69.08 / 76
p0 774.8 ± 0.6315
800
795
790
785
780
775
770
765
760
755

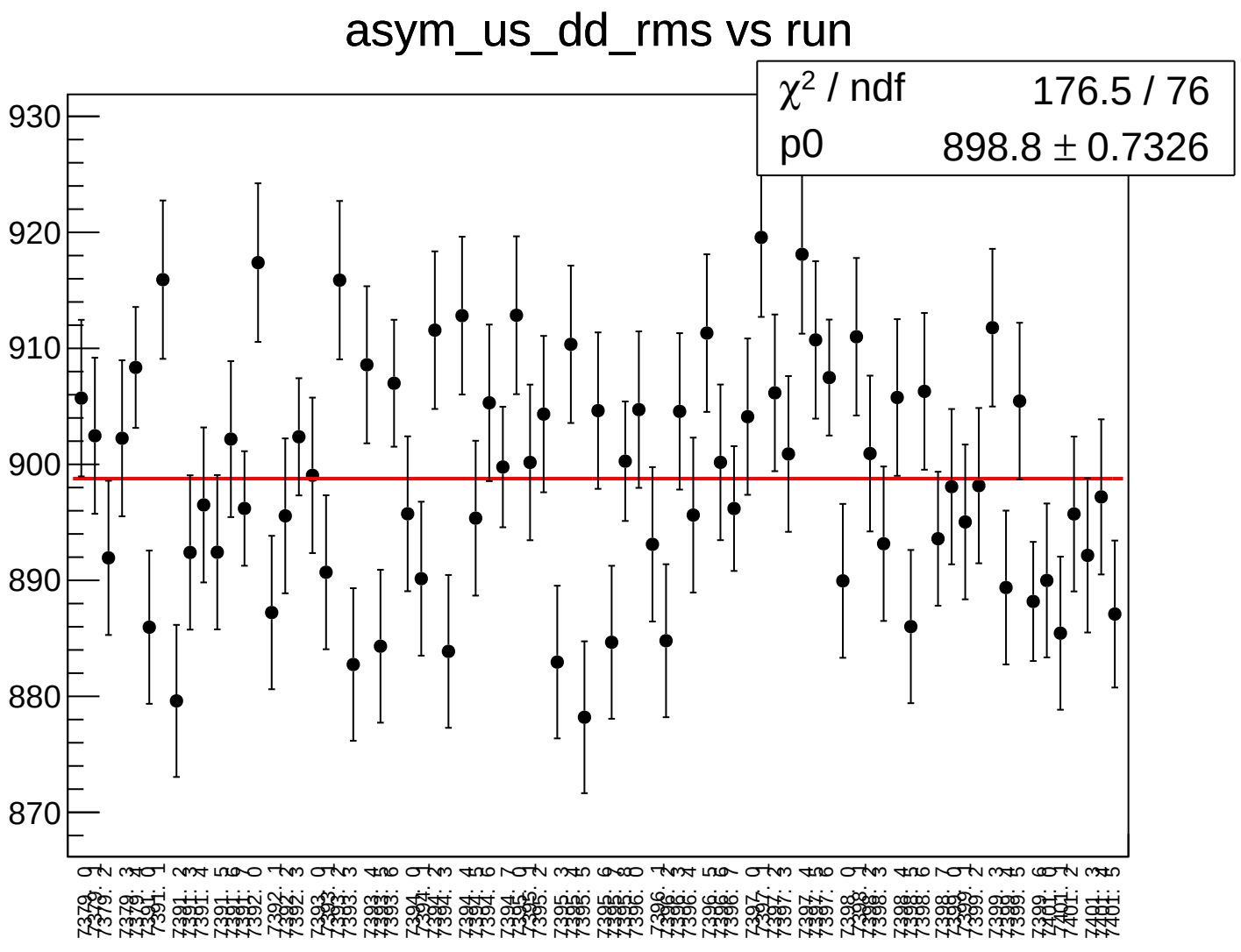

asym_us_dd_correction_mean vs run
χ² / ndf 79.87 / 76
p0 66.83 ± 523.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 77
Mean −731.9
Std Dev 775.4
2
1
0
−1
−2
−3

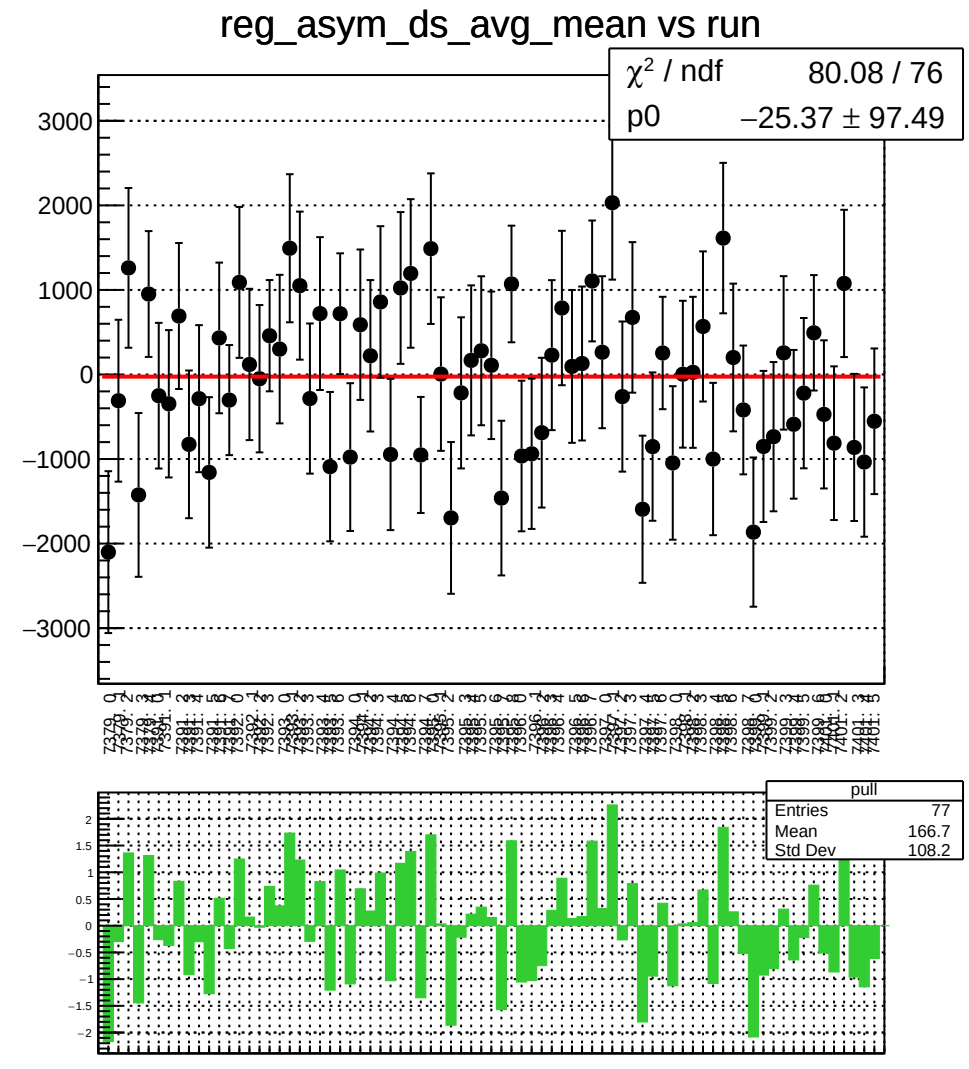

pull1D
Entries 77
Mean −0.007154
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

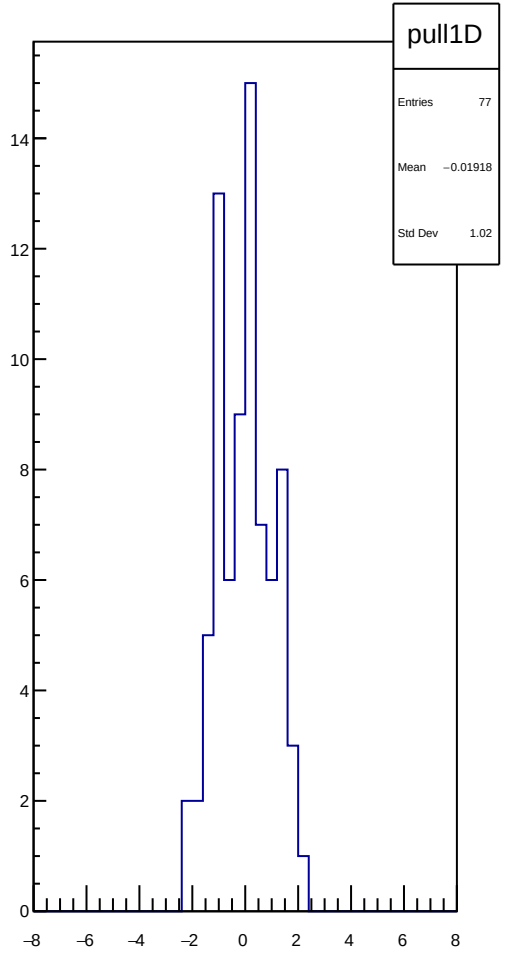

asym_us_dd_correction_rms vs run
χ² / ndf 2250 / 76
p0 454.1 ± 0.3704
520
500
480
460
440
420

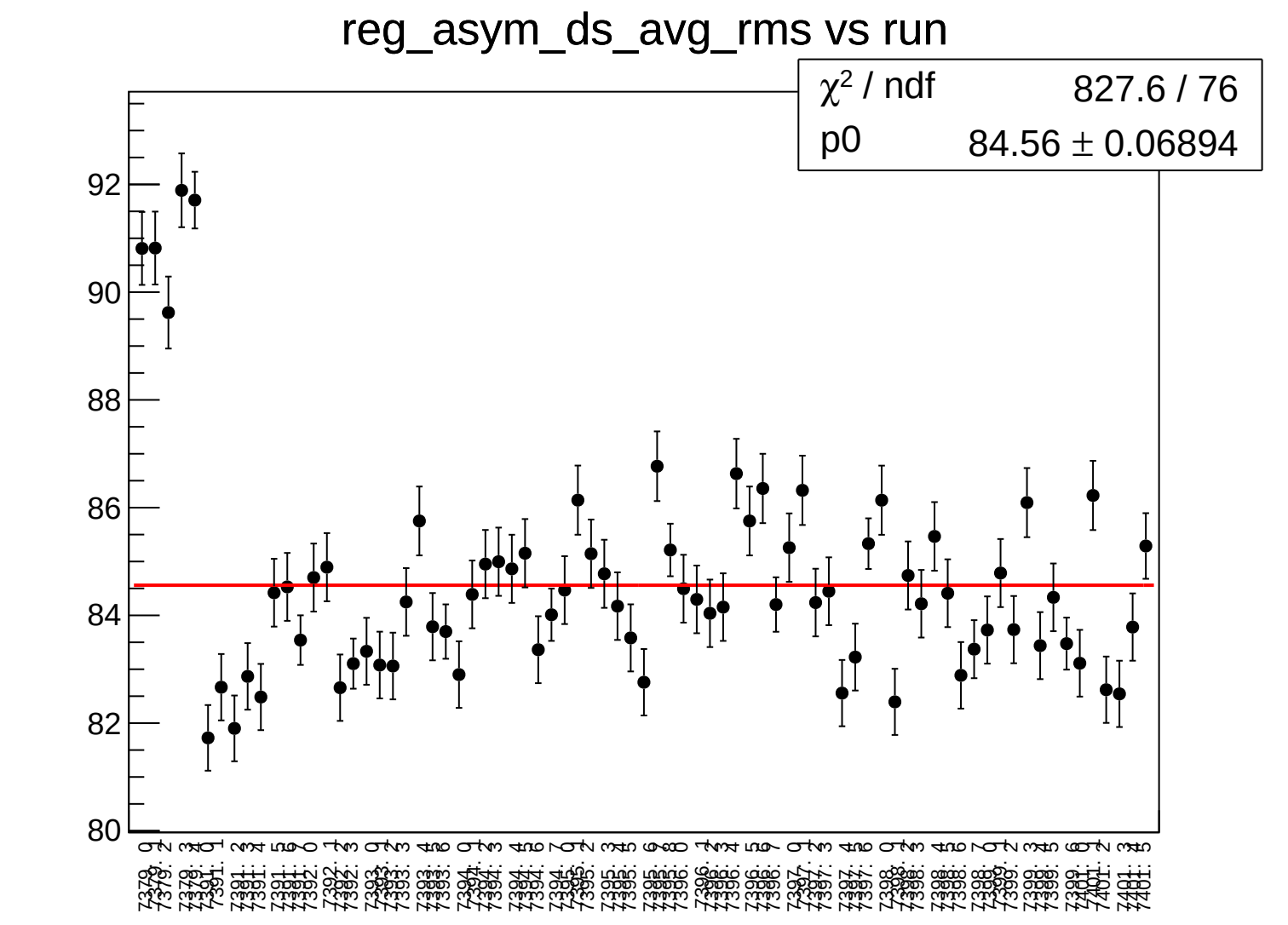

asym_us_dd_mean vs run
χ² / ndf 95.89 / 76
p0 −633.5 ± 1036
pull
Entries 77
Mean −67.19
Std Dev 113.6

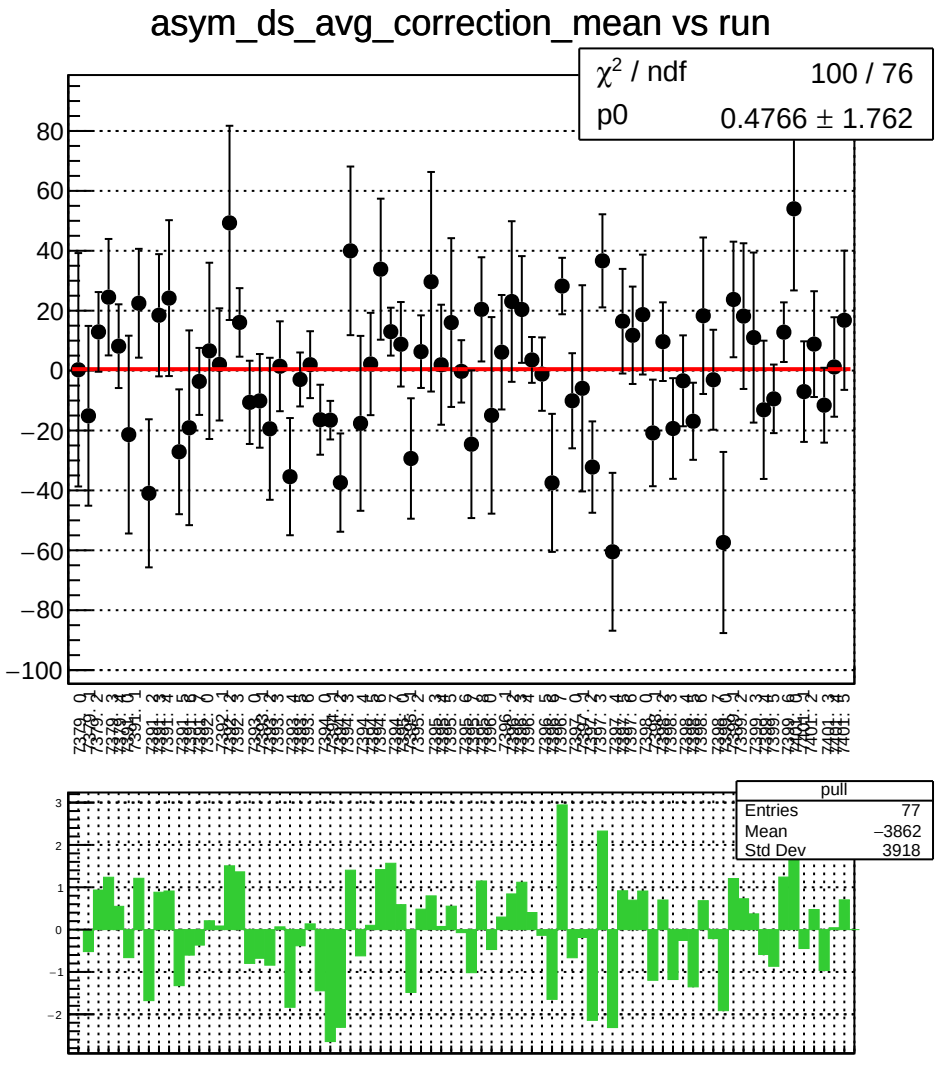

pull1D
Entries 77
Mean 0.02386
Std Dev 1.116

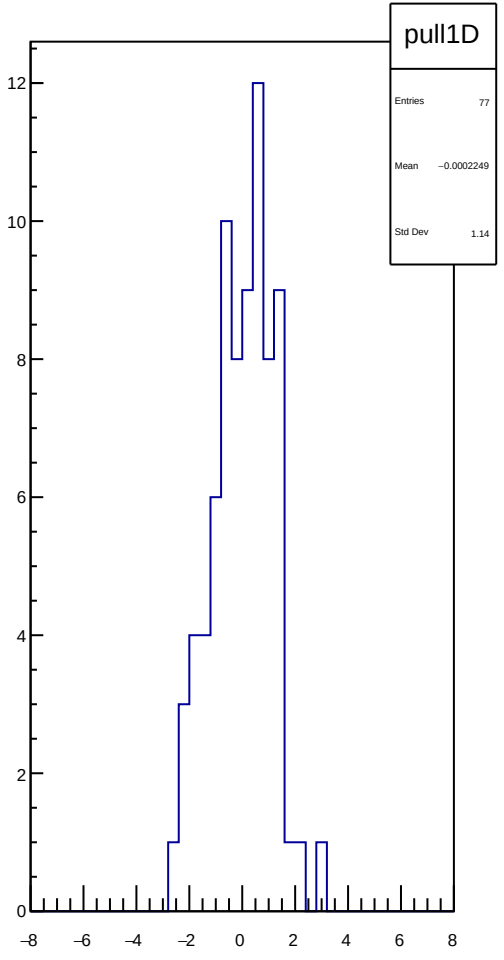

asym_us_dd_rms vs run
χ^2 / ndf 176.5 / 76
p0 898.8 ± 0.7326
930
920
910
900
890
880
870

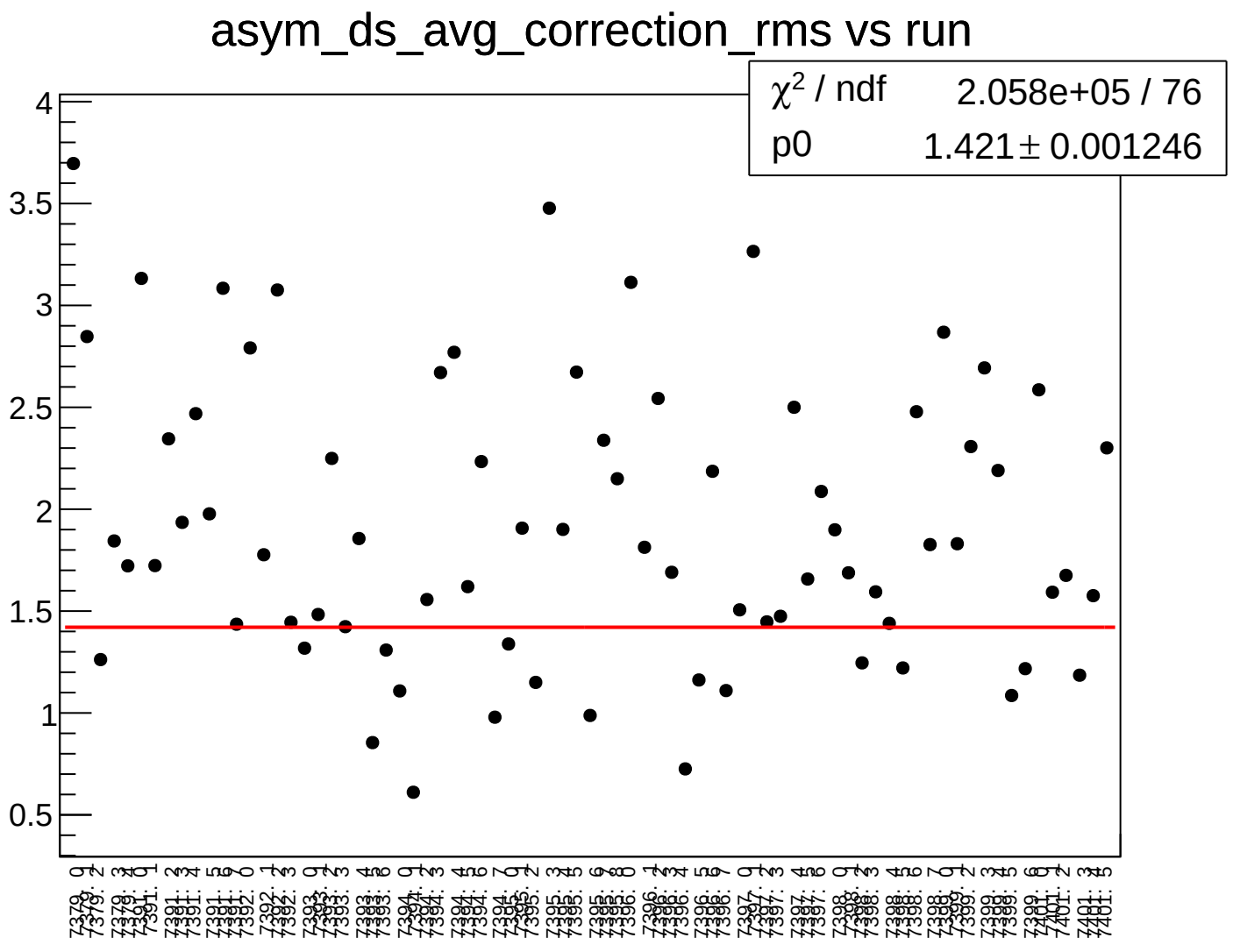

reg_asym_ds_avg_mean vs run
χ² / ndf 80.08 / 76
p0 −25.37 ± 97.49
pull
Entries 77
Mean 166.7
Std Dev 108.2

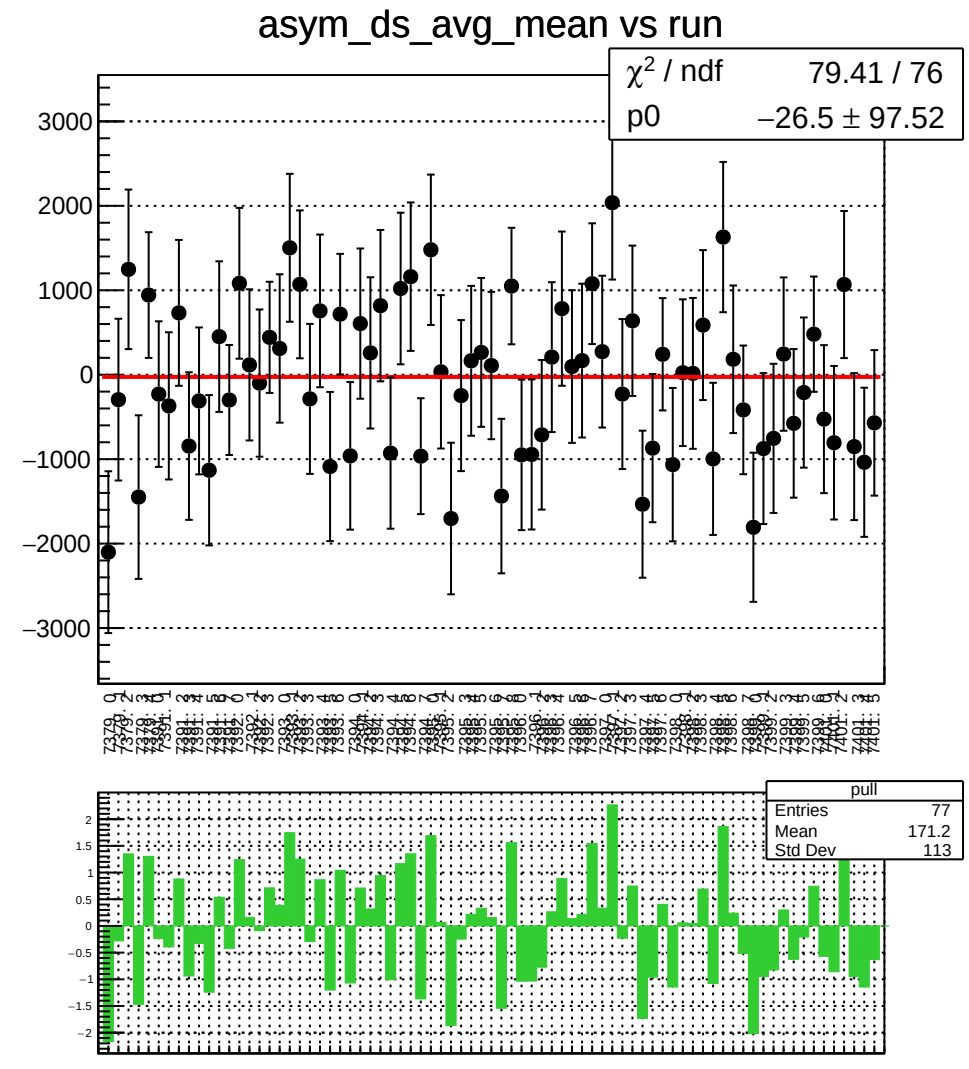

pull1D
Entries 77
Mean −0.01918
Std Dev 1.02

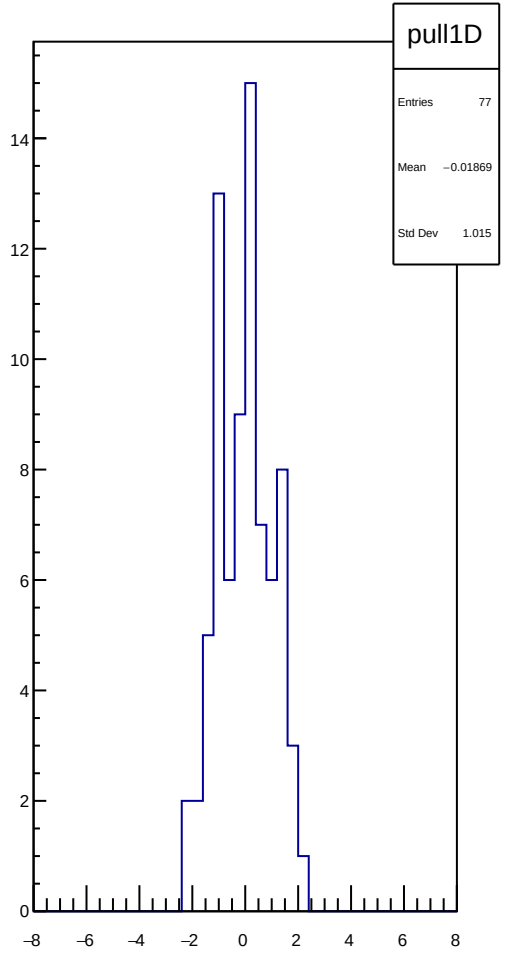

reg_asym_ds_avg_rms vs run
χ² / ndf 827.6 / 76
p0 84.56 ± 0.06894
92
90
88
86
84
82
80

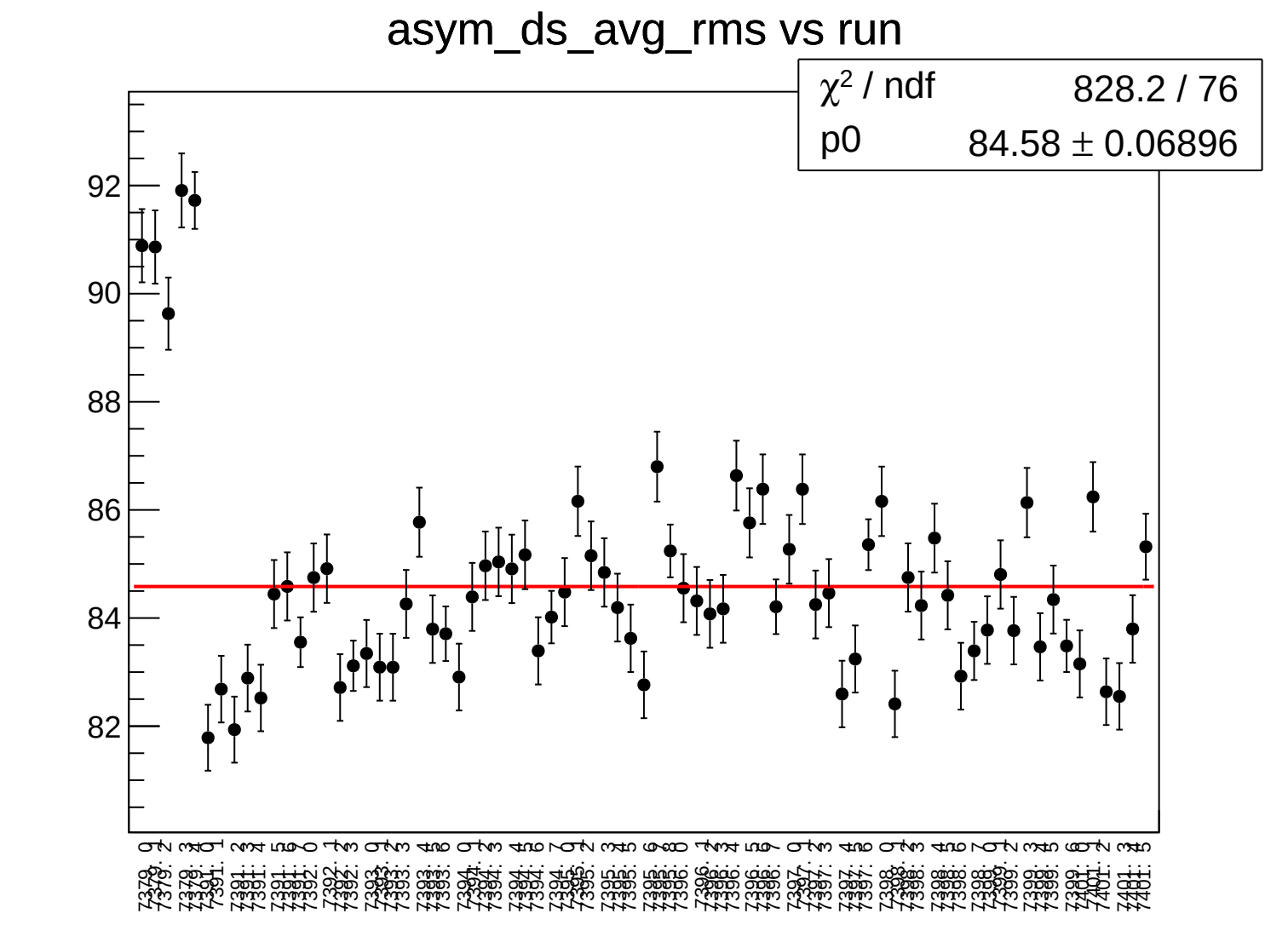

asym_ds_avg_correction_mean vs run
χ² / ndf 100 / 76
p0 0.4766 ± 1.762
pull
Entries 77
Mean −3862
Std Dev 3918

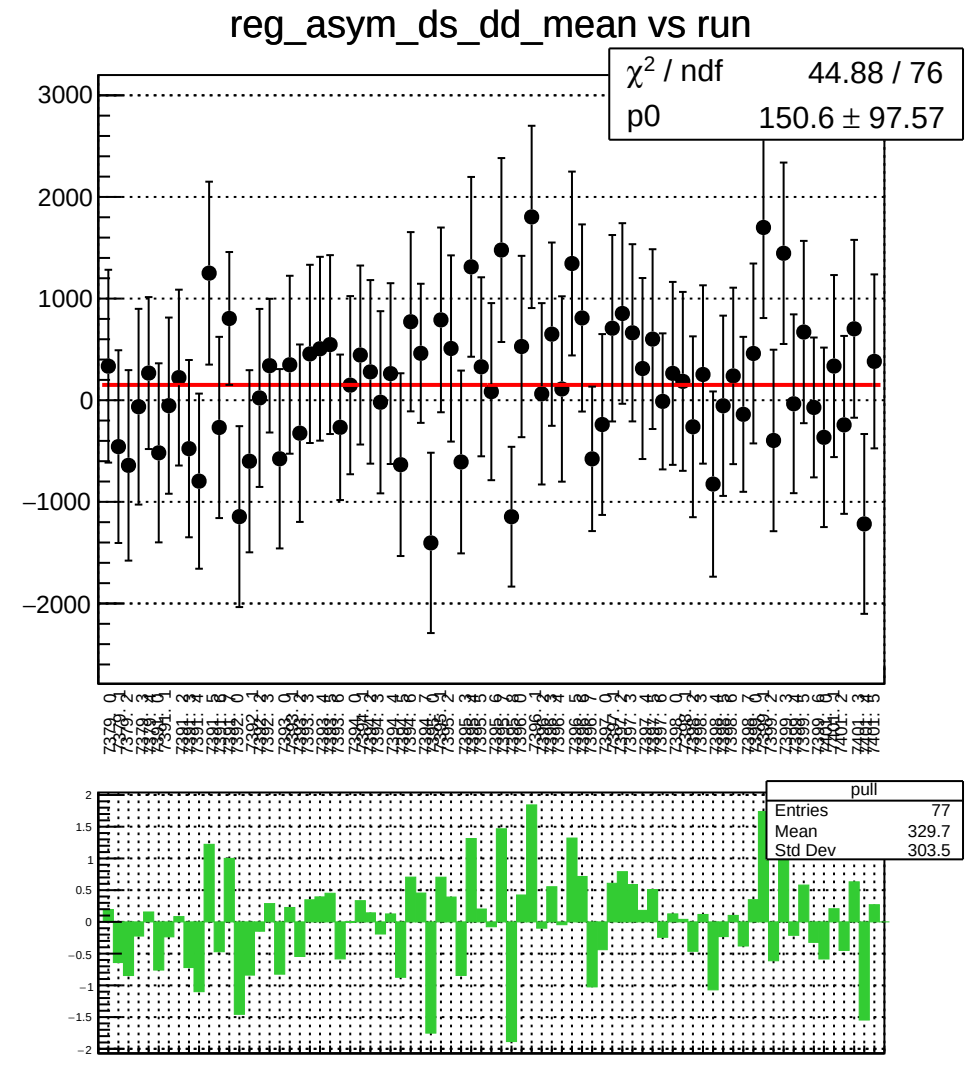

pull1D
Entries 77
Mean −0.0002249
Std Dev 1.14

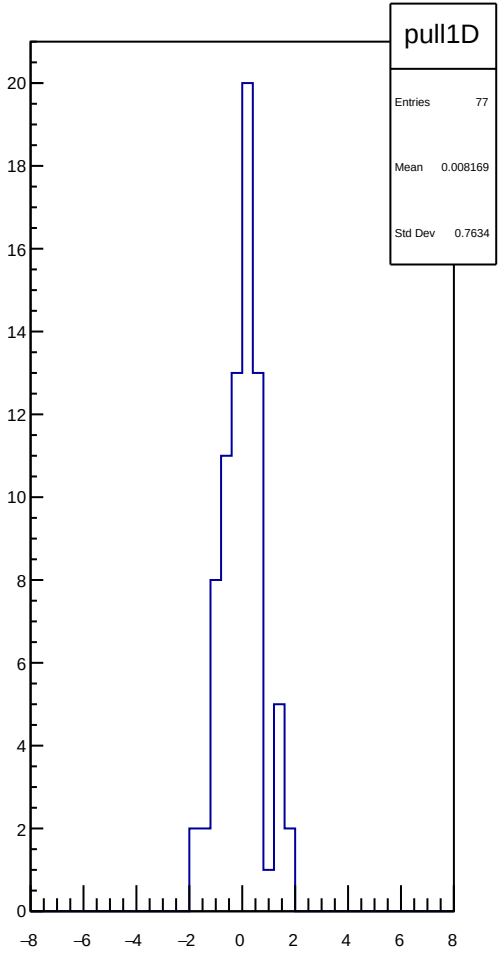

asym_ds_avg_correction_rms vs run
χ^2 / ndf 2.058e+05 / 76
p0 1.421 ± 0.001246
4
3.5
3
2.5
2
1.5
1
0.5

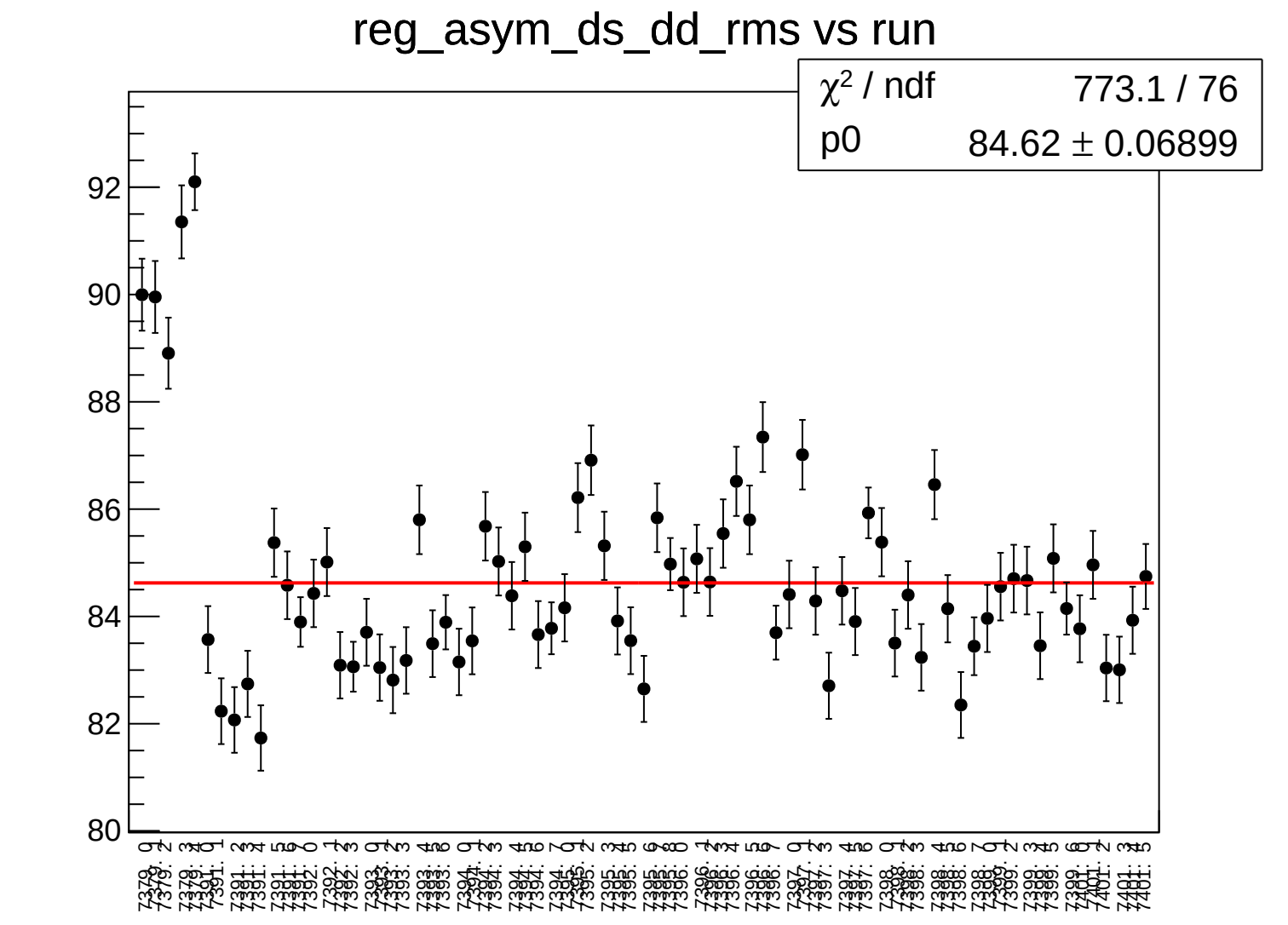

asym_ds_avg_mean vs run
χ² / ndf 79.41 / 76
p0 −26.5 ± 97.52
pull
Entries 77
Mean 171.2
Std Dev 113

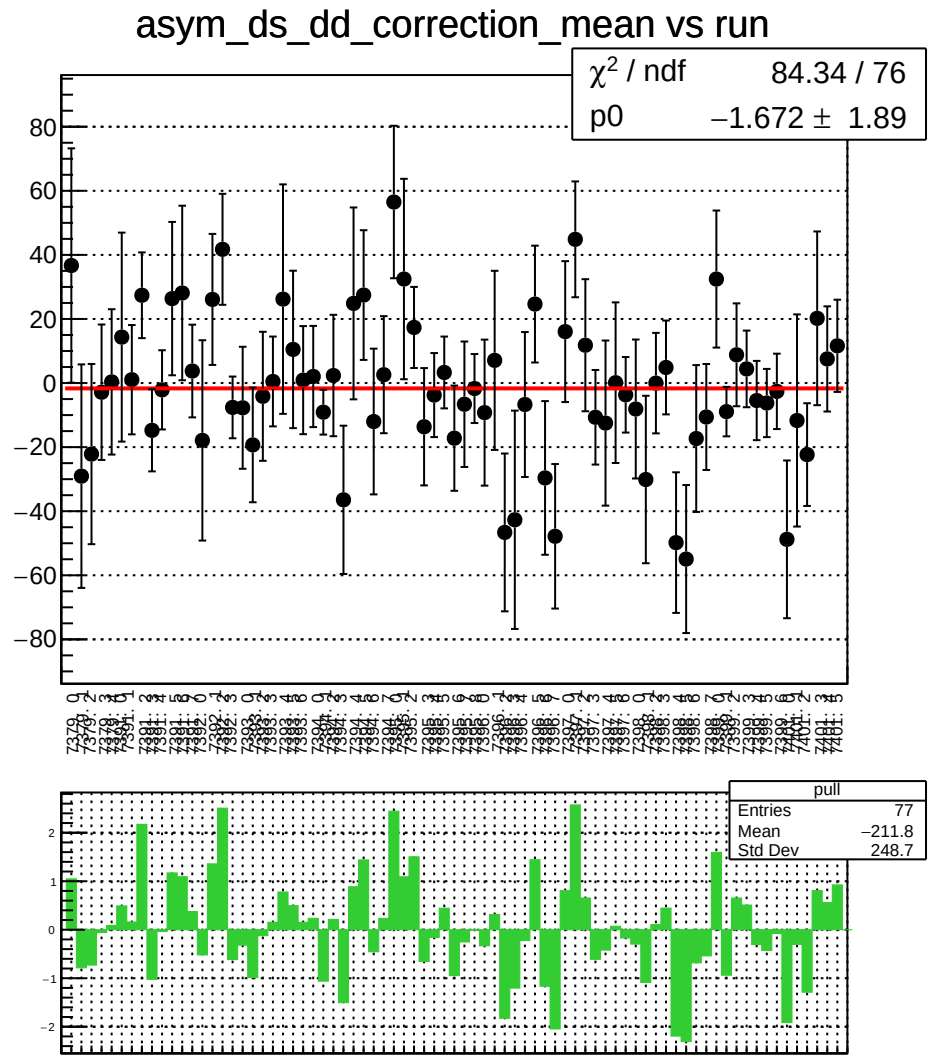

pull1D
Entries 77
Mean −0.01869
Std Dev 1.015

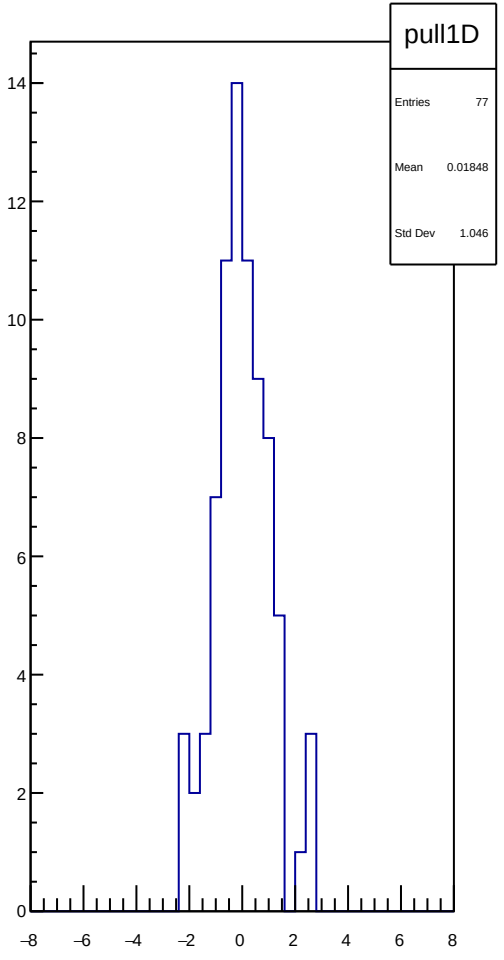

asym_ds_avg_rms vs run
χ^2 / ndf 828.2 / 76
p0 84.58 ± 0.06896
92
90
88
86
84
82

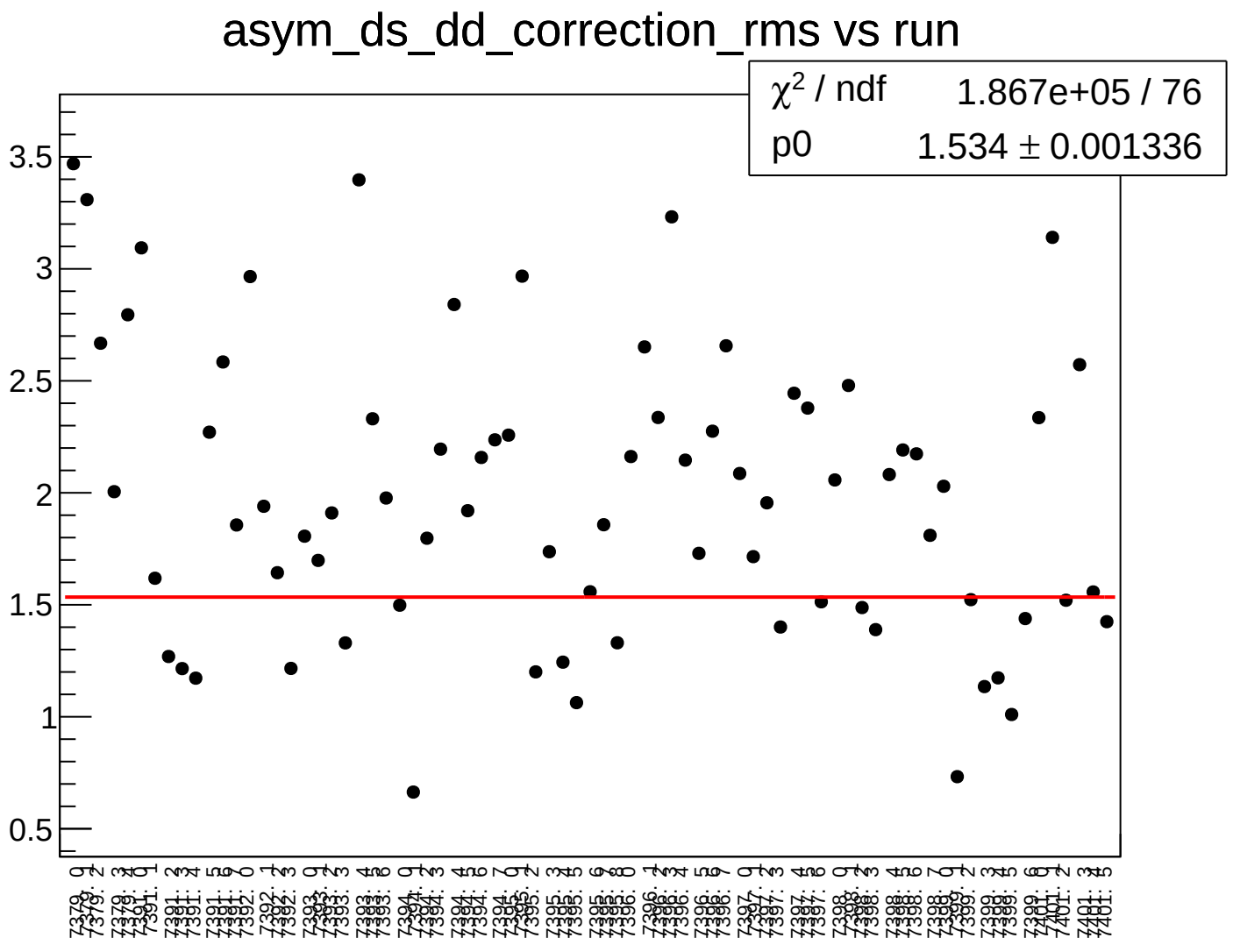

reg_asym_ds_dd_mean vs run
χ² / ndf 44.88 / 76
p0 150.6 ± 97.57
pull
Entries 77
Mean 329.7
Std Dev 303.5

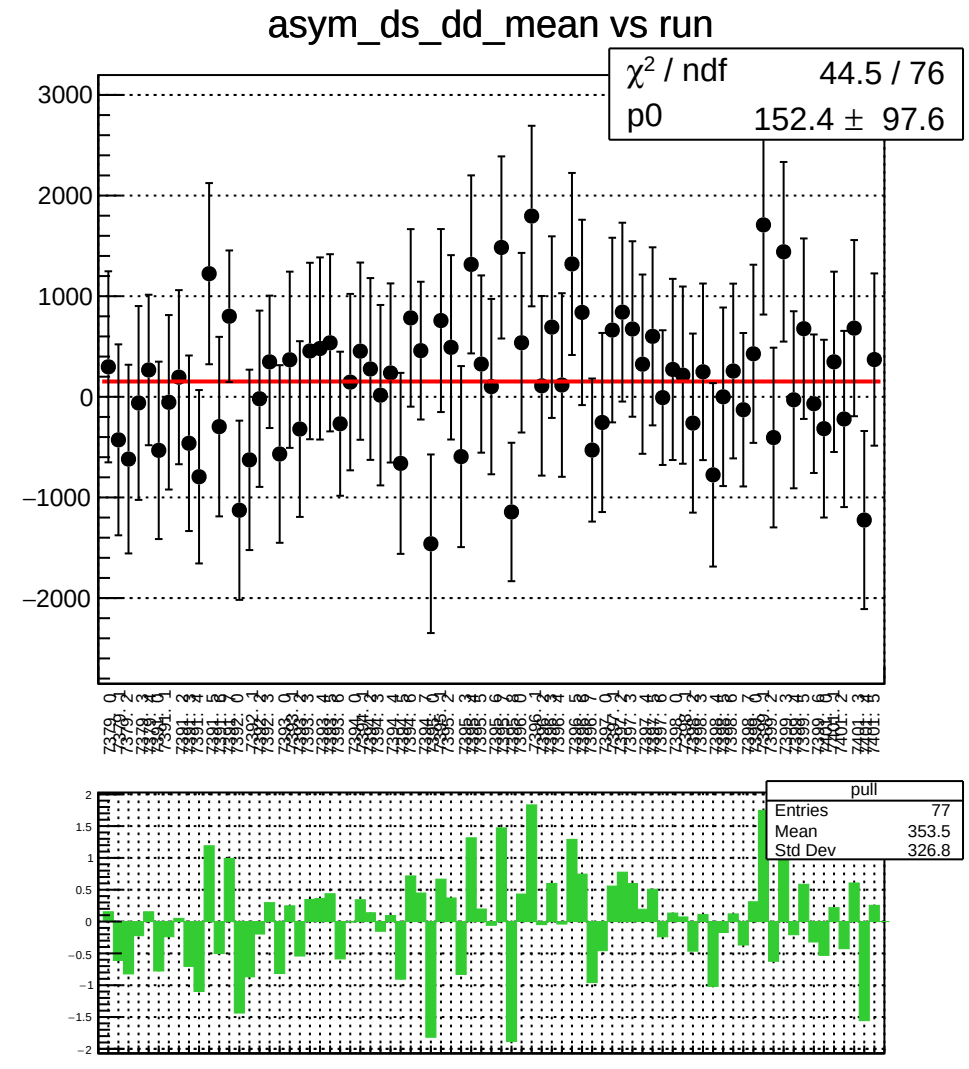

pull1D
Entries 77
Mean 0.008169
Std Dev 0.7634

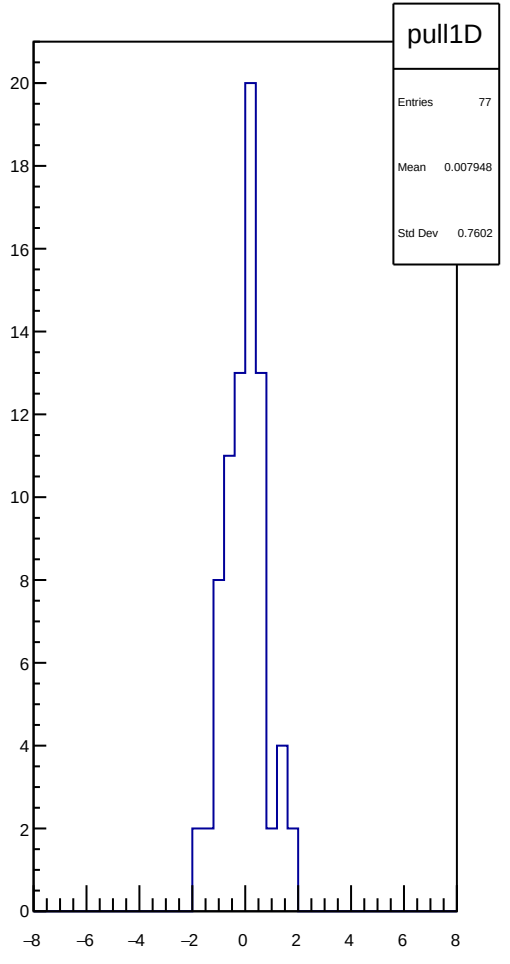

reg_asym_ds_dd_rms vs run
χ^2 / ndf 773.1 / 76
p0 84.62 ± 0.06899
92
90
88
86
84
82
80

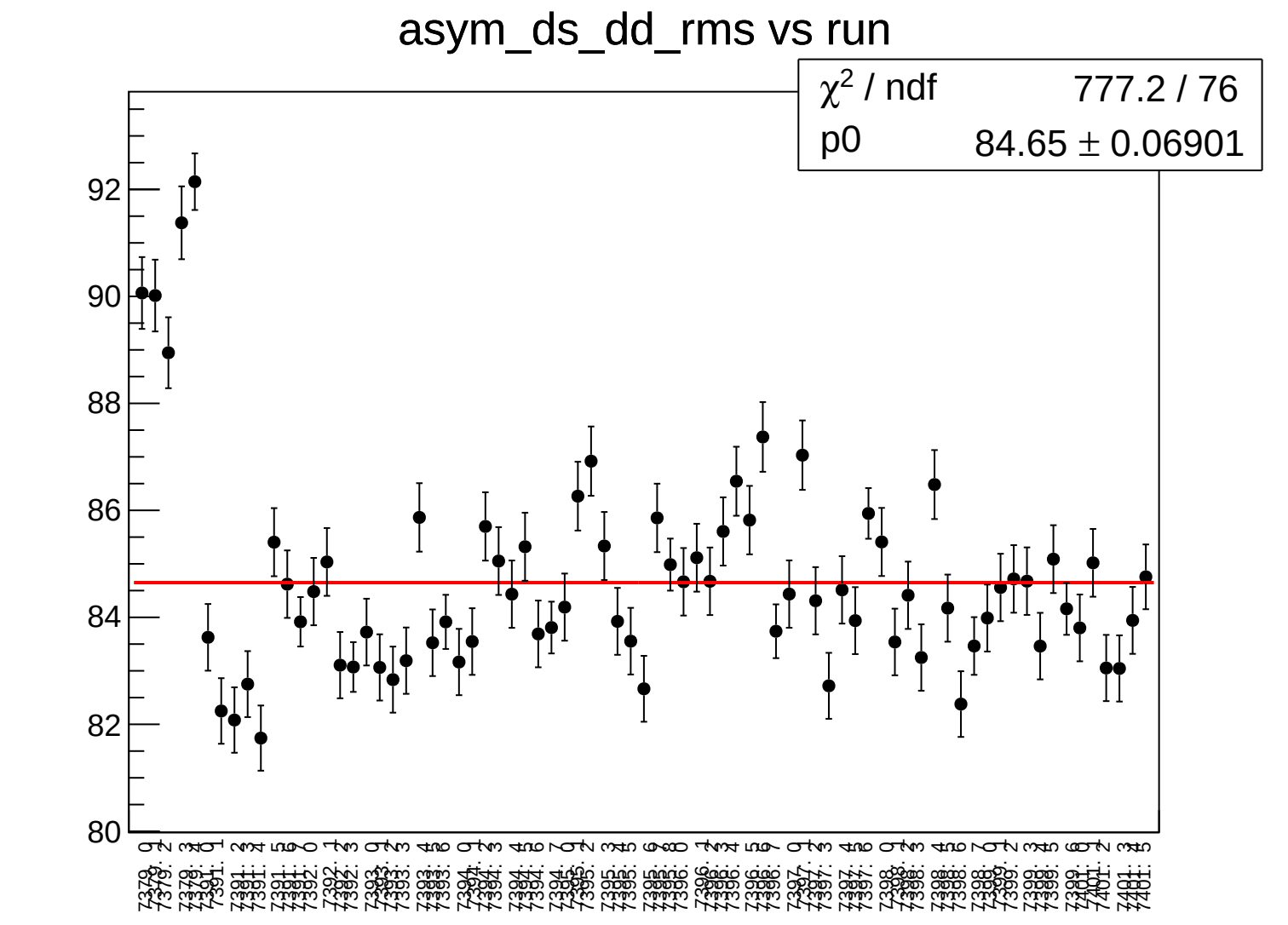

asym_ds_dd_correction_mean vs run
χ² / ndf 84.34 / 76
p0 −1.672 ± 1.89
pull
Entries 77
Mean −211.8
Std Dev 248.7

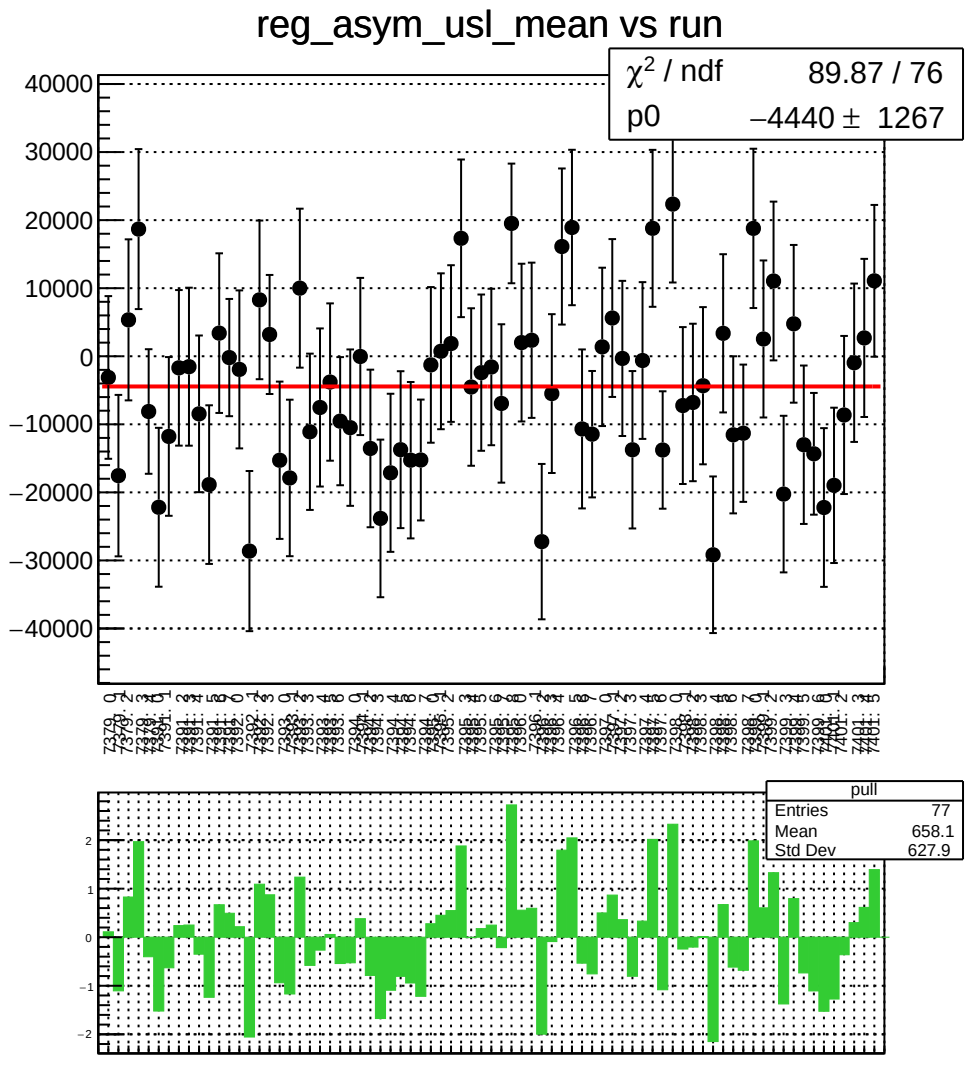

pull1D
Entries 77
Mean 0.01848
Std Dev 1.046

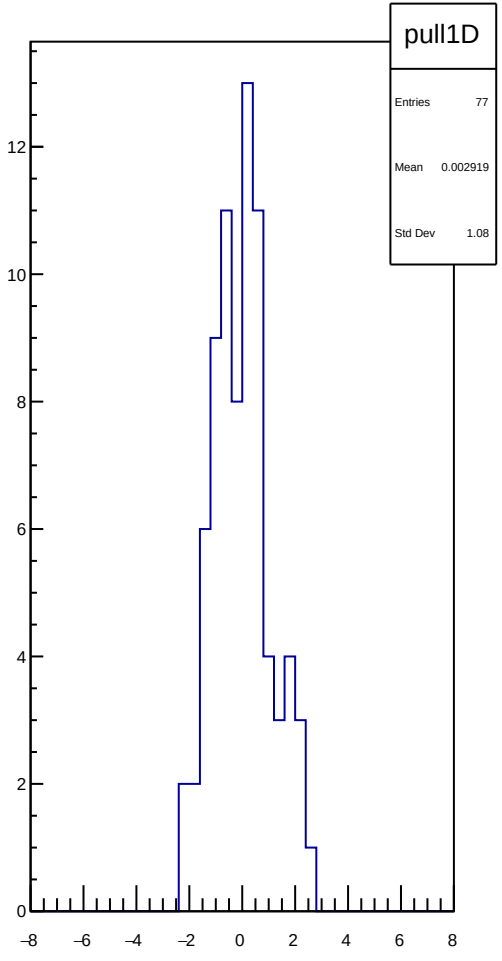

asym_ds_dd_correction_rms vs run
χ^2 / ndf 1.867e+05 / 76
p0 1.534 ± 0.001336
3.5
3
2.5
2
1.5
1

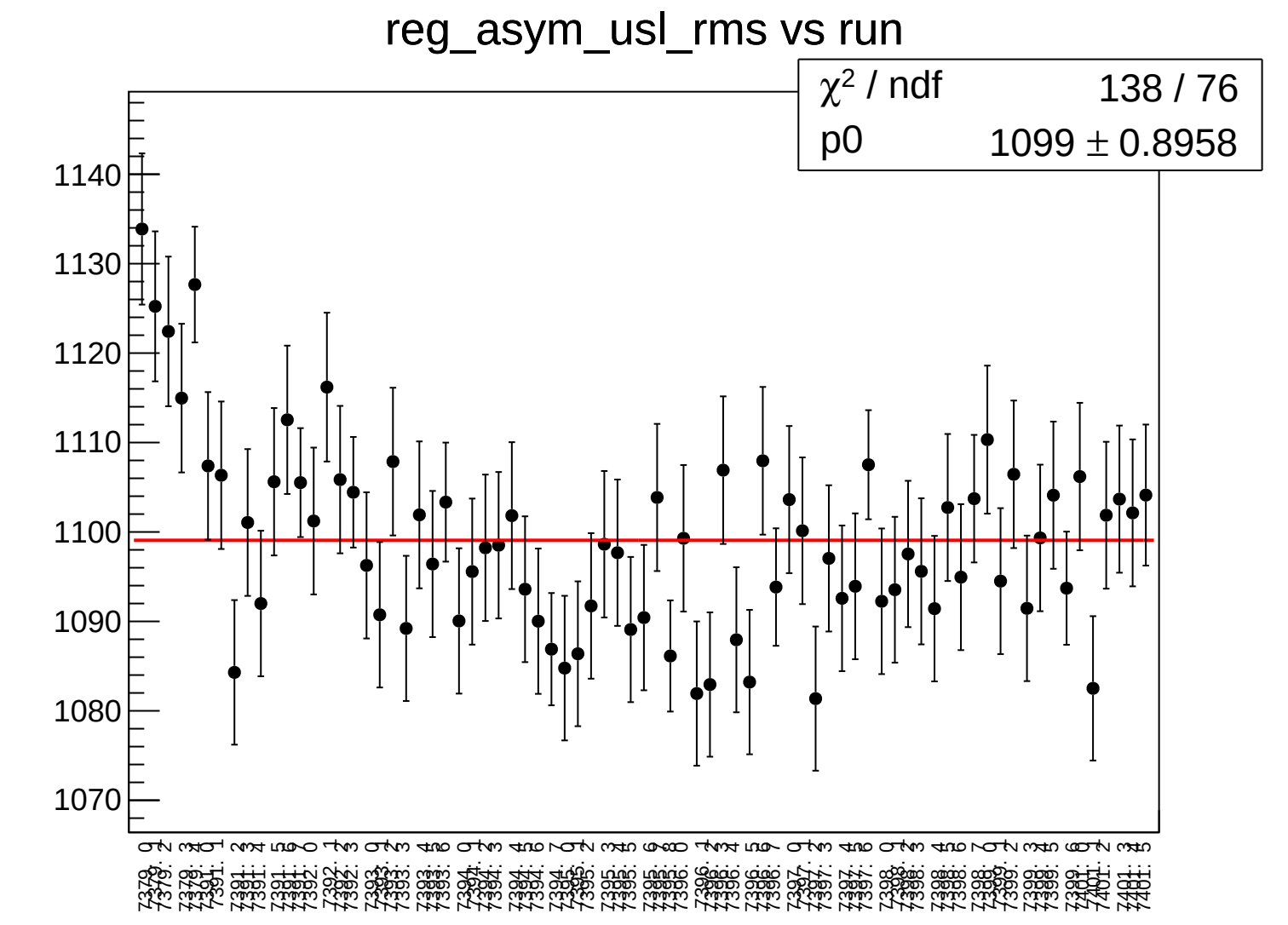

asym_ds_dd_mean vs run
χ² / ndf 44.5 / 76
p0 152.4 ± 97.6
3000
2000
1000
0
−1000
−2000
pull
Entries 77
Mean 353.5
Std Dev 326.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

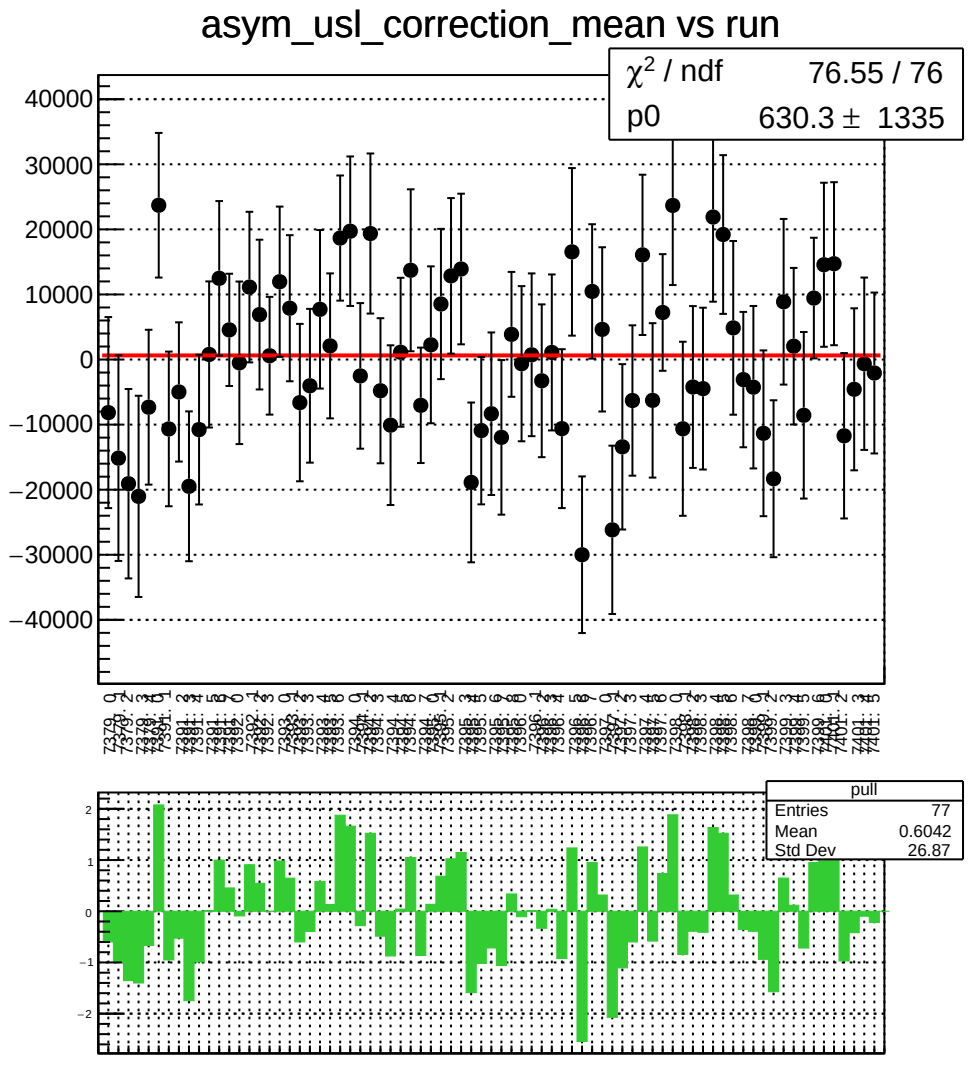

pull1D
Entries 77
Mean 0.007948
Std Dev 0.7602
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

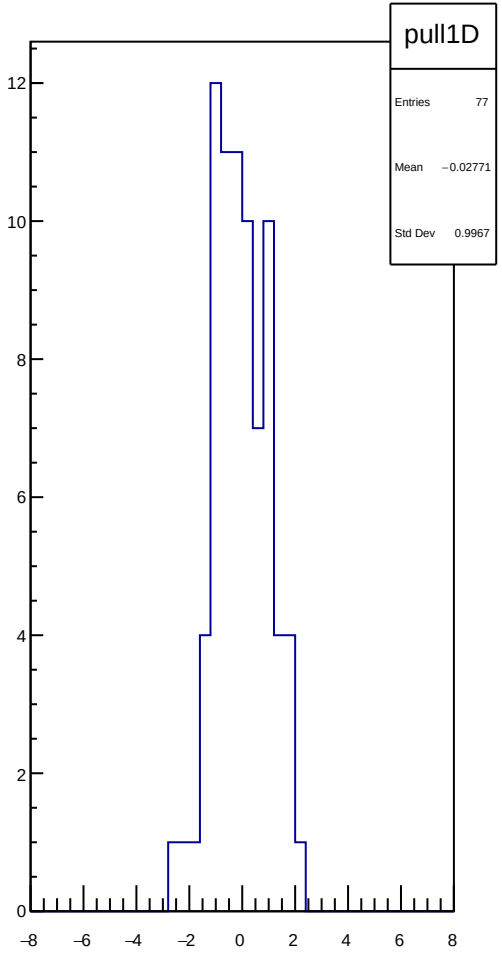

asym_ds_dd_rms vs run
χ^2 / ndf 777.2 / 76
p0 84.65 ± 0.06901
92
90
88
86
84
82
80

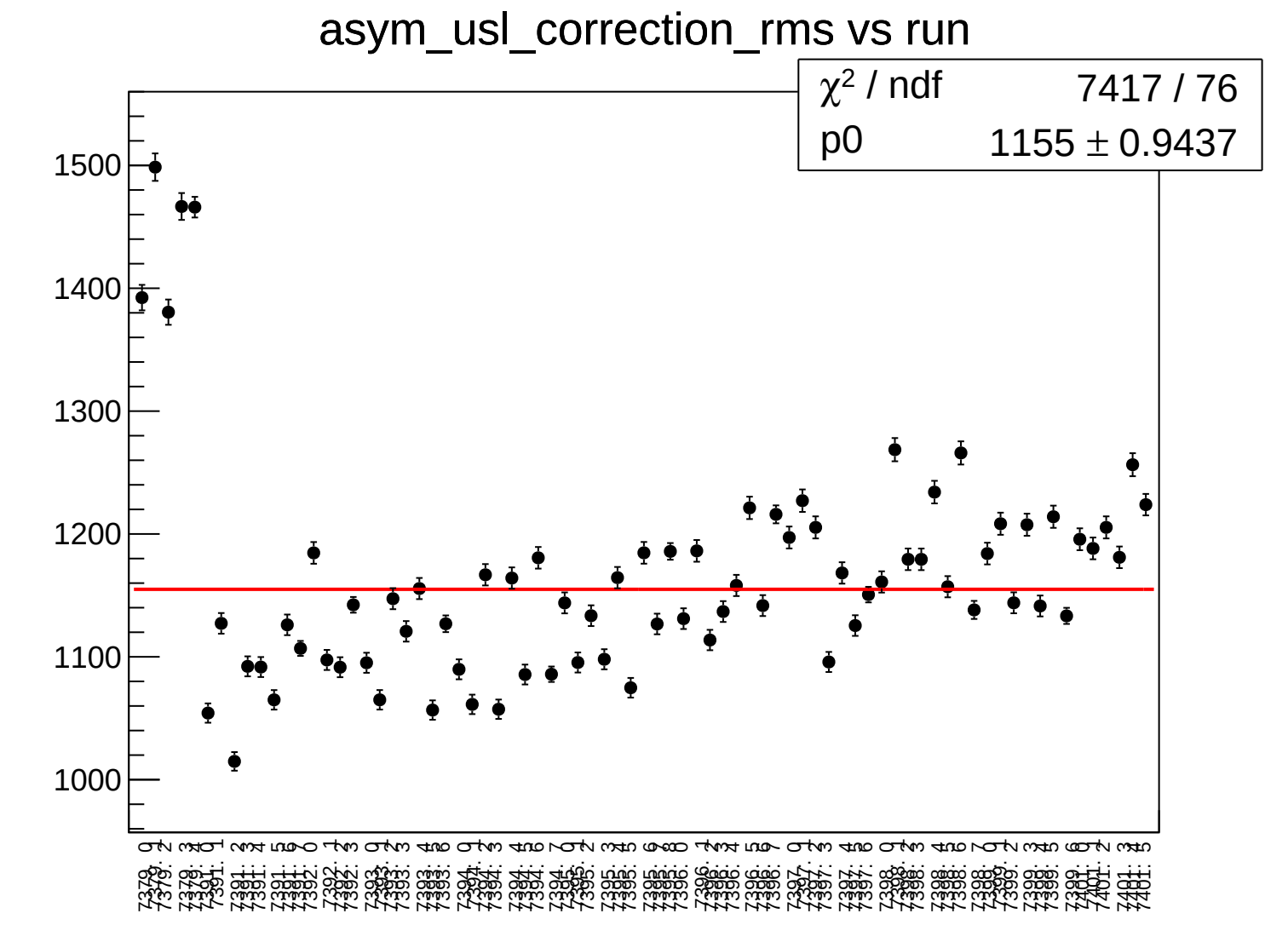

reg_asym_usl_mean vs run
χ² / ndf 89.87 / 76
p0 −4440 ± 1267
pull
Entries 77
Mean 658.1
Std Dev 627.9

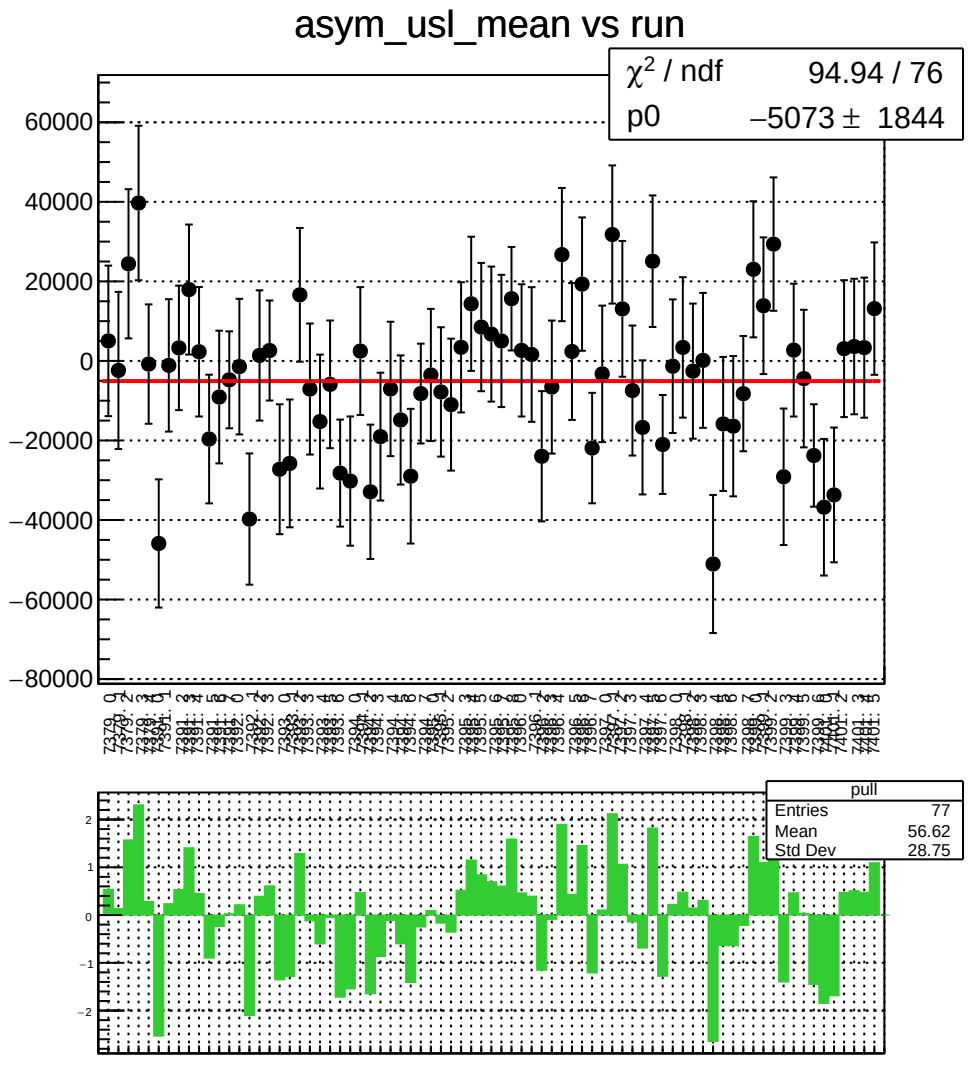

pull1D
Entries 77
Mean 0.002919
Std Dev 1.08

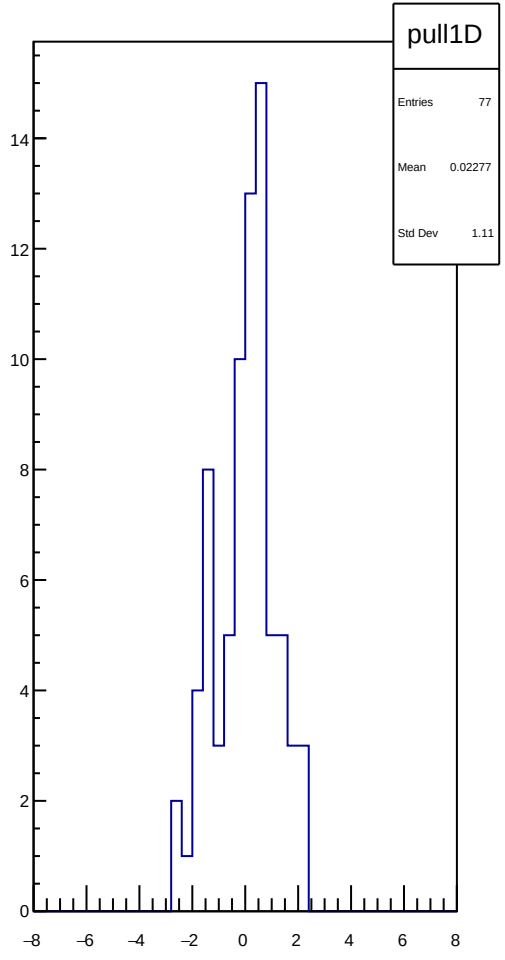

reg_asym_usl_rms vs run
χ² / ndf 138 / 76
p0 1099 ± 0.8958
1140
1130
1120
1110
1100
1090
1080
1070

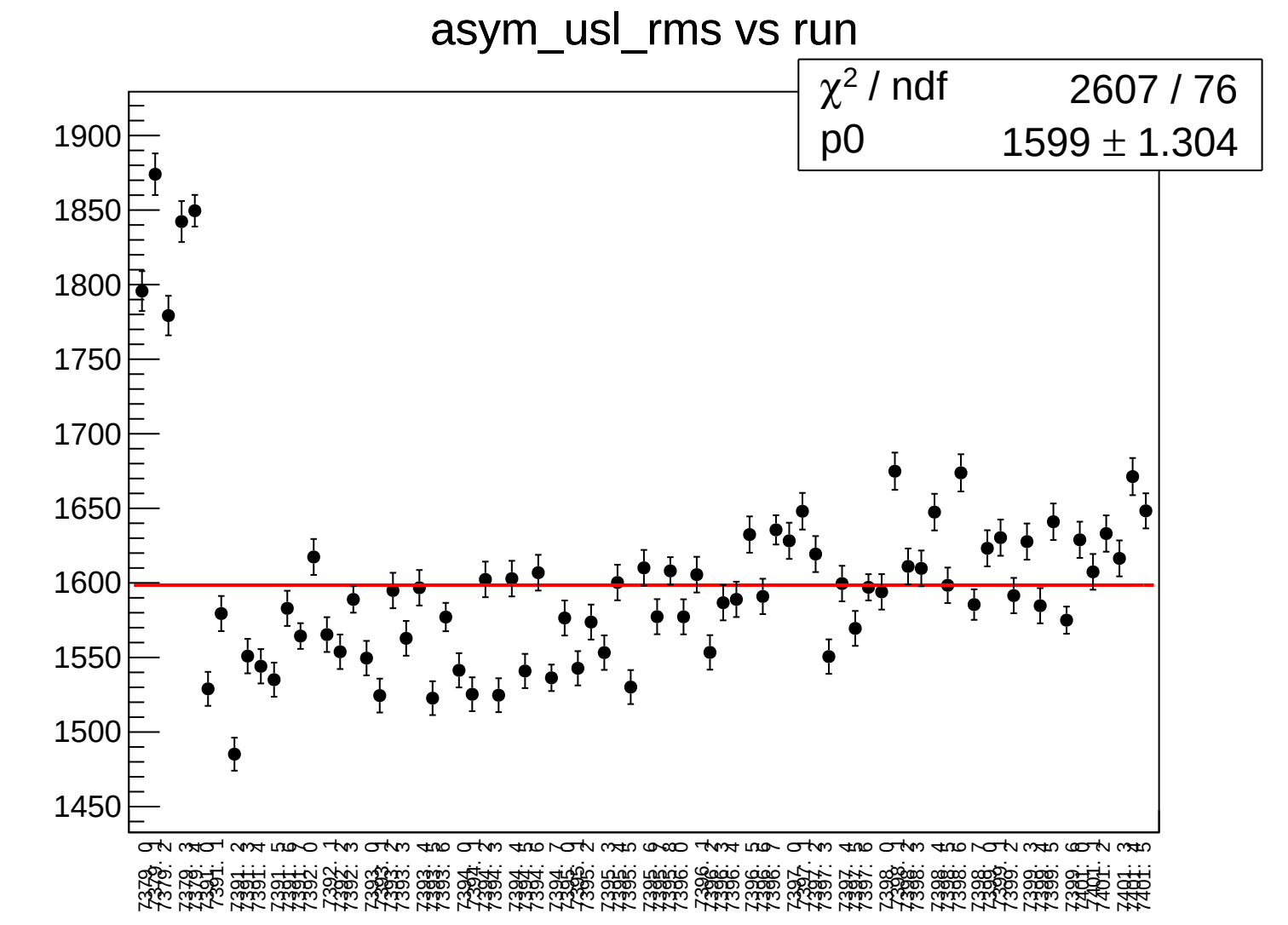

asym_usl_correction_mean vs run
χ² / ndf 76.55 / 76
p0 630.3 ± 1335
pull
Entries 77
Mean 0.6042
Std Dev 26.87

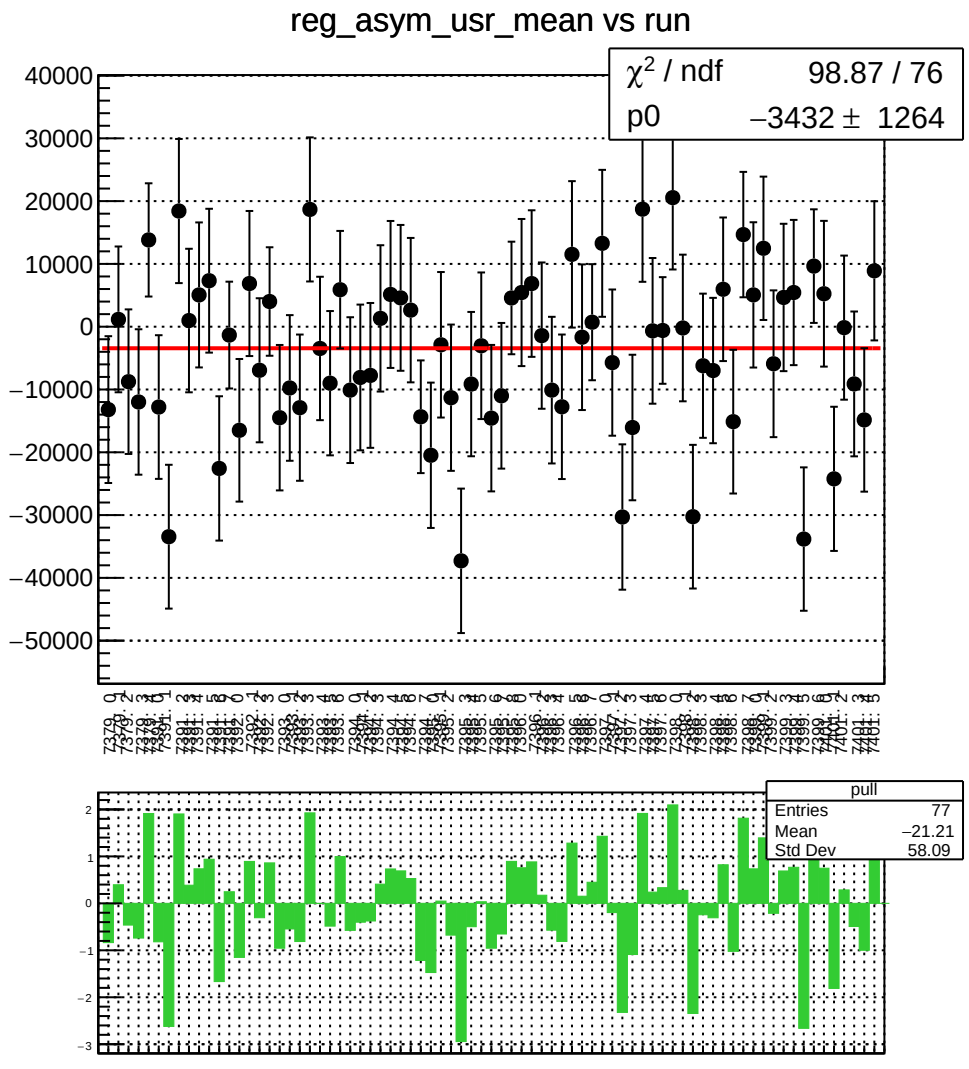

pull1D
Entries 77
Mean −0.02771
Std Dev 0.9967

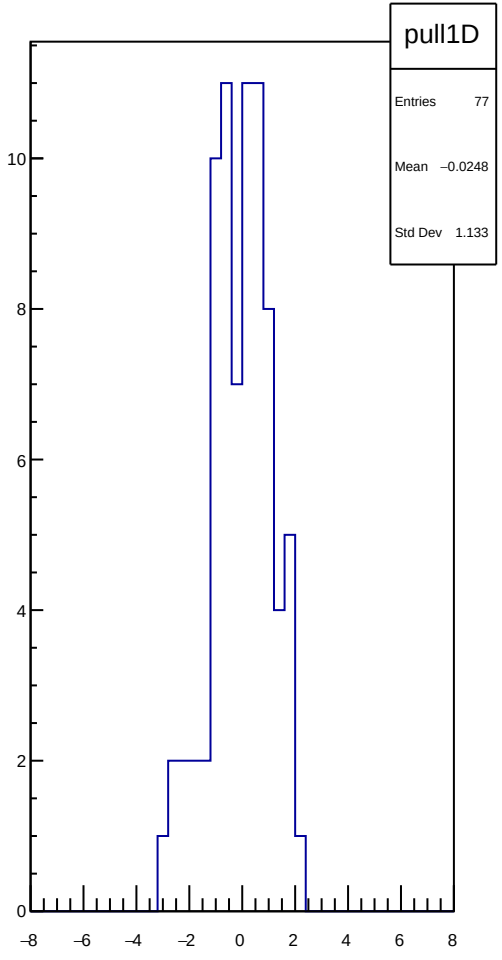

asym_usl_correction_rms vs run
χ² / ndf 7417 / 76
p0 1155 ± 0.9437
1500
1400
1300
1200
1100
1000

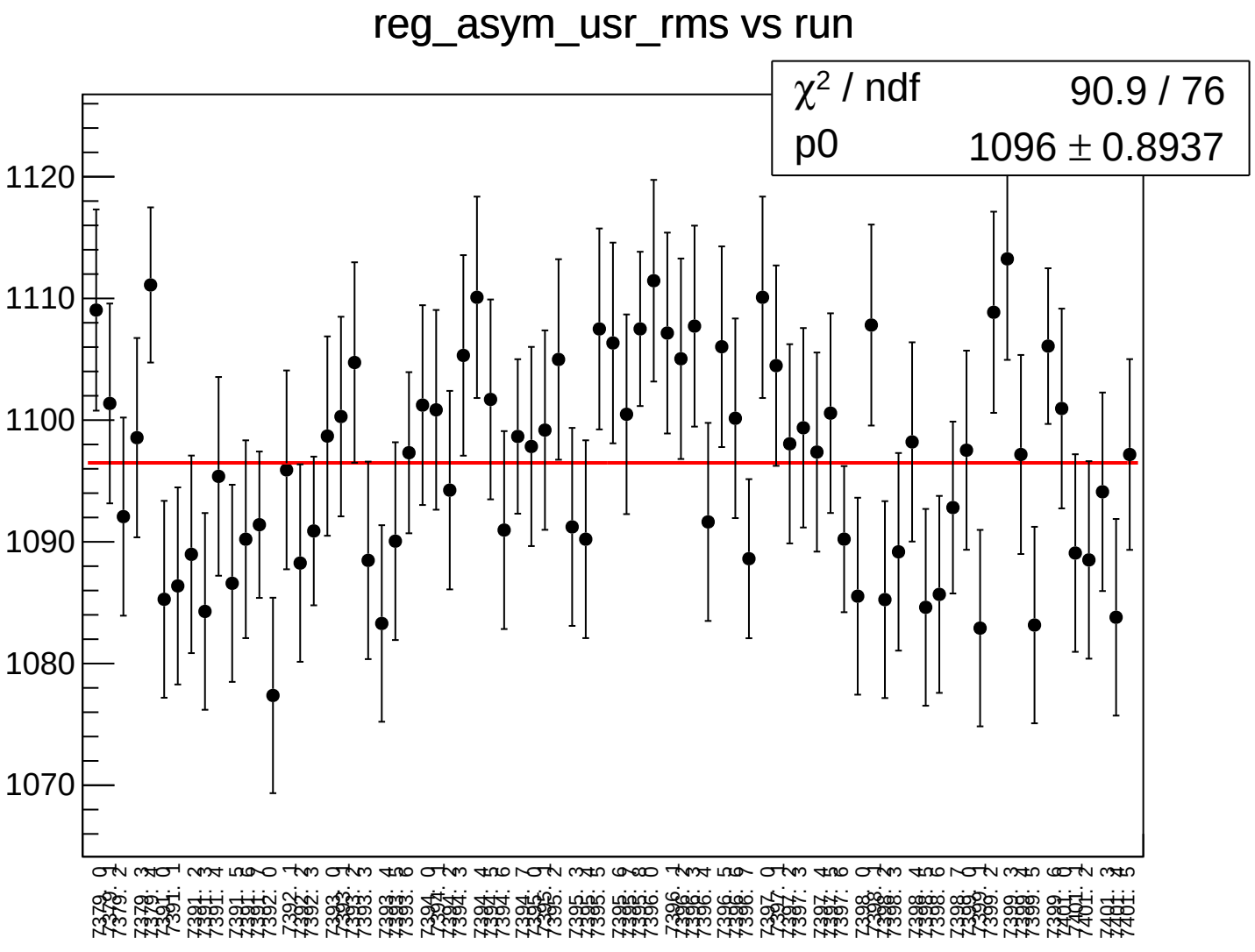

asym_usl_mean vs run
χ² / ndf 94.94 / 76
p0 −5073 ± 1844
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 77
Mean 56.62
Std Dev 28.75
2
1
0
−1
−2

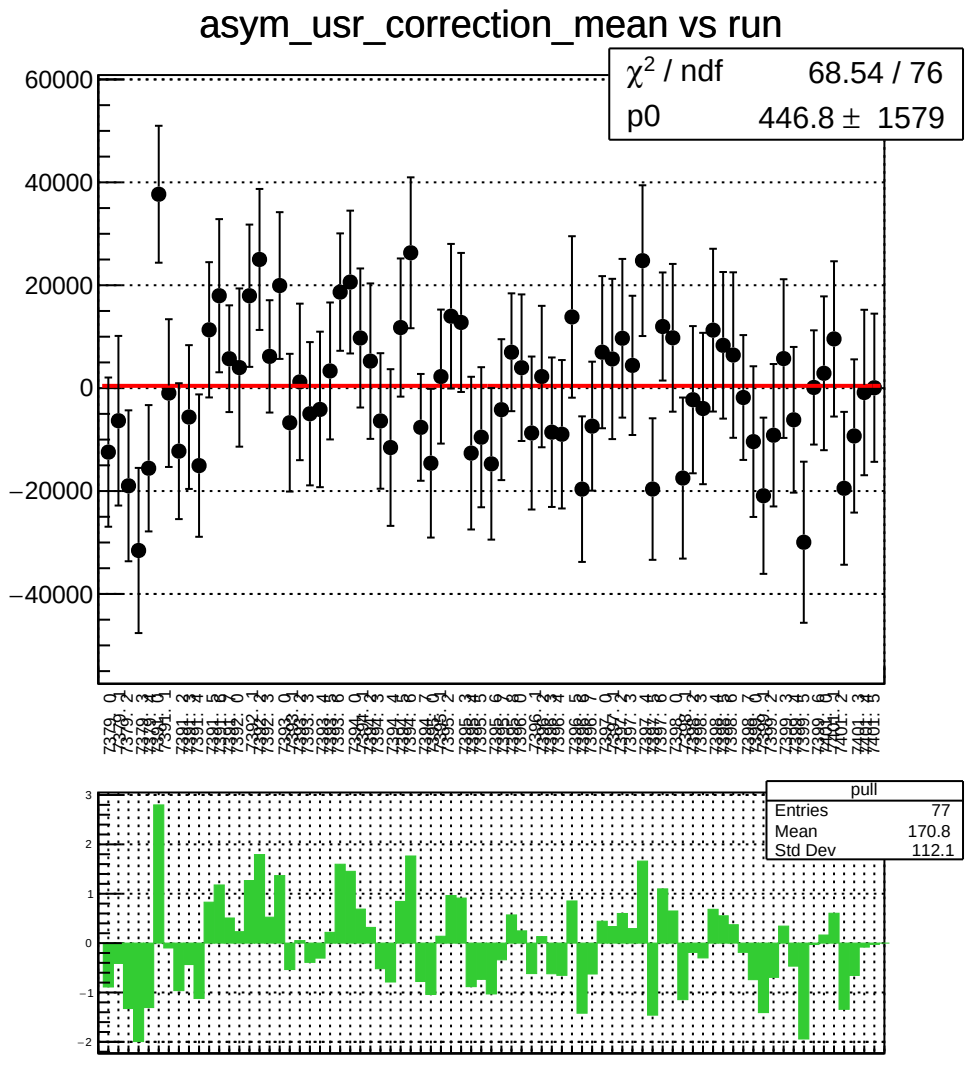

pull1D
Entries 77
Mean 0.02277
Std Dev 1.11
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

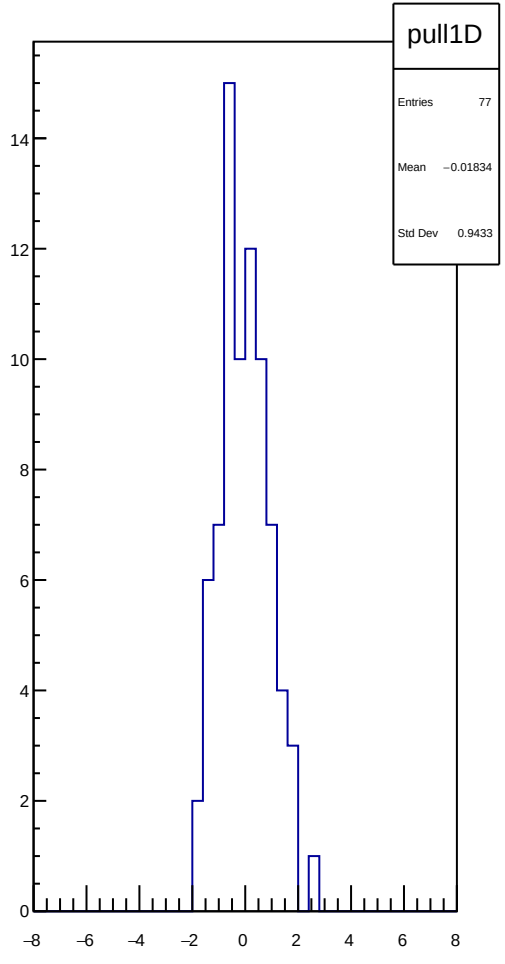

asym_usl_rms vs run
χ^2 / ndf 2607 / 76
p0 1599 ± 1.304
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

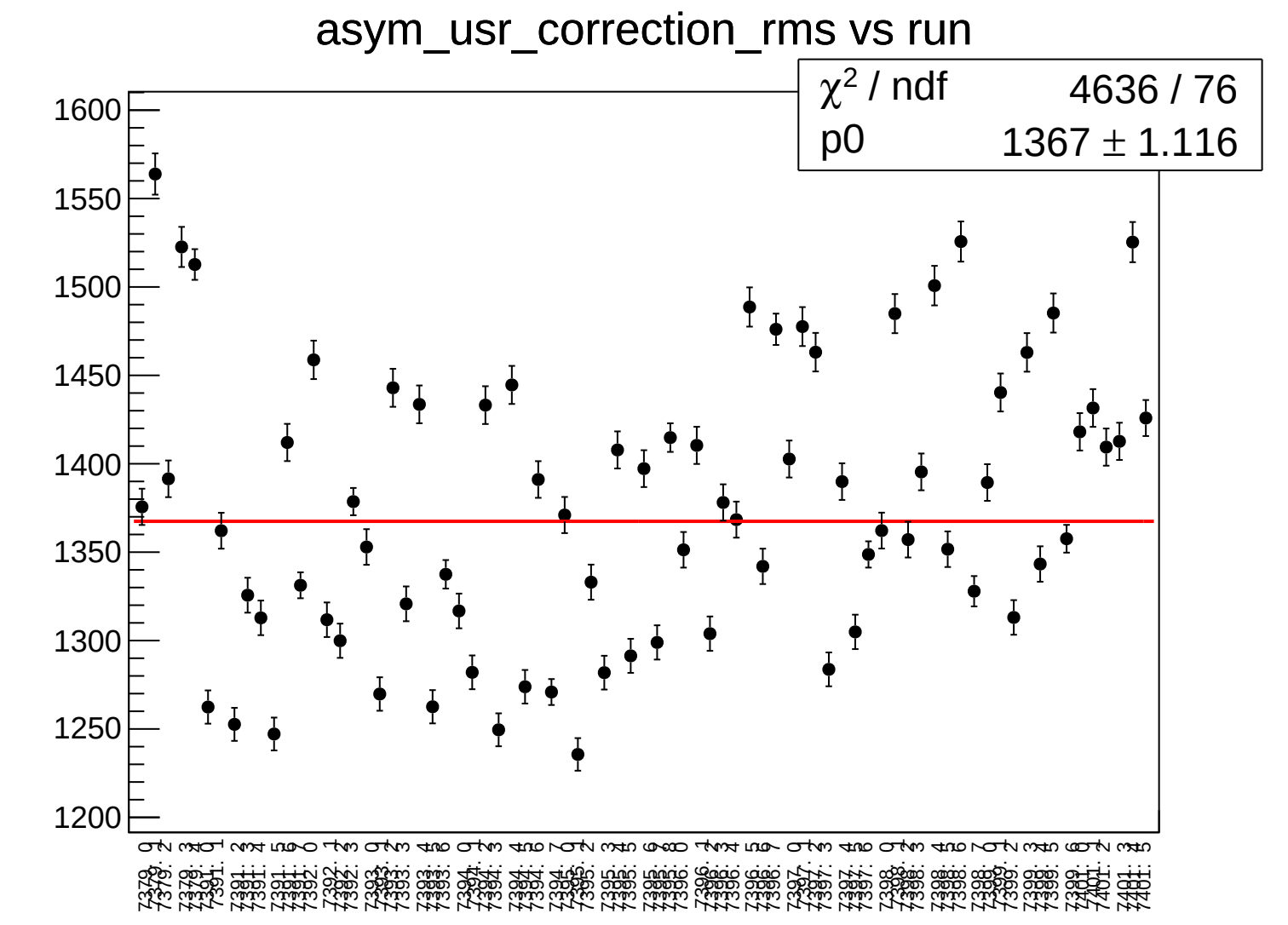

reg_asym_usr_mean vs run
χ² / ndf 98.87 / 76
p0 −3432 ± 1264
pull
Entries 77
Mean −21.21
Std Dev 58.09

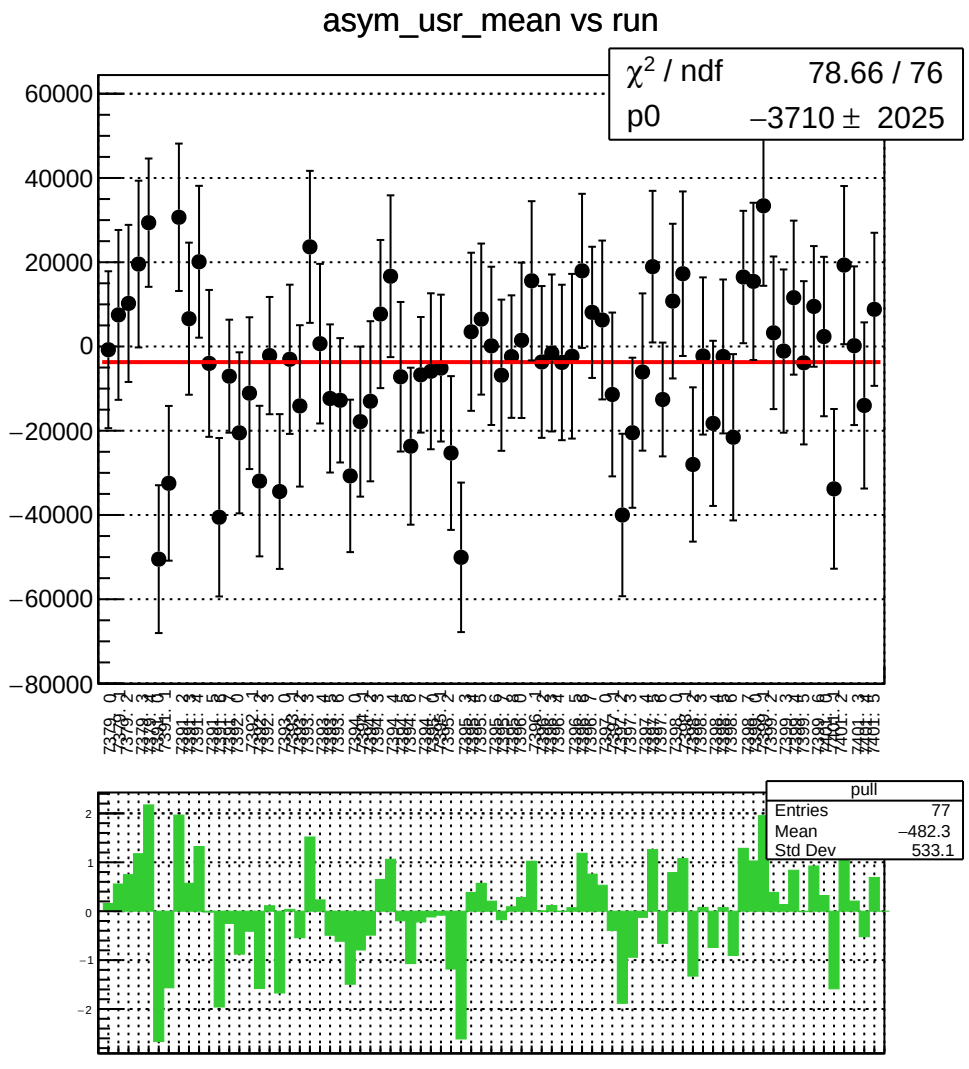

pull1D
Entries 77
Mean −0.0248
Std Dev 1.133

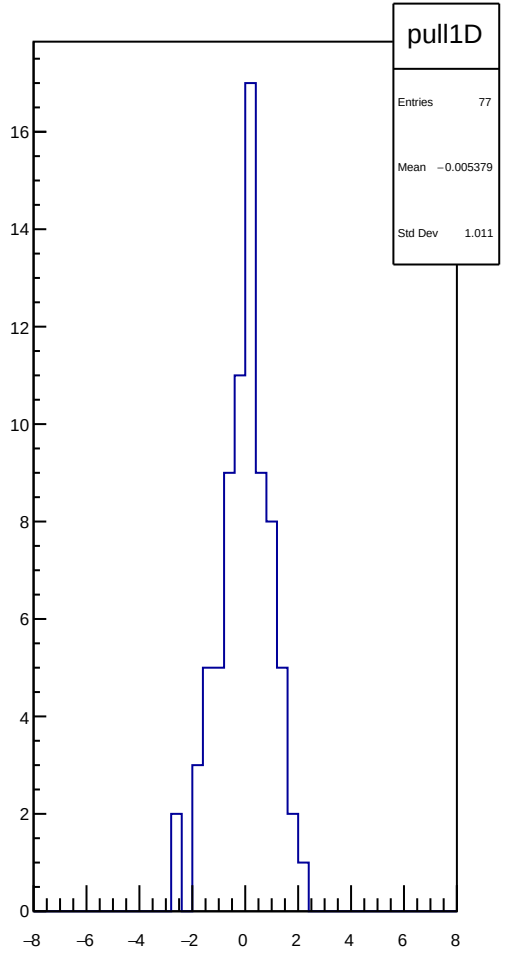

reg_asym_usr_rms vs run
χ^2 / ndf 90.9 / 76
p0 1096 ± 0.8937
1120
1110
1100
1090
1080
1070

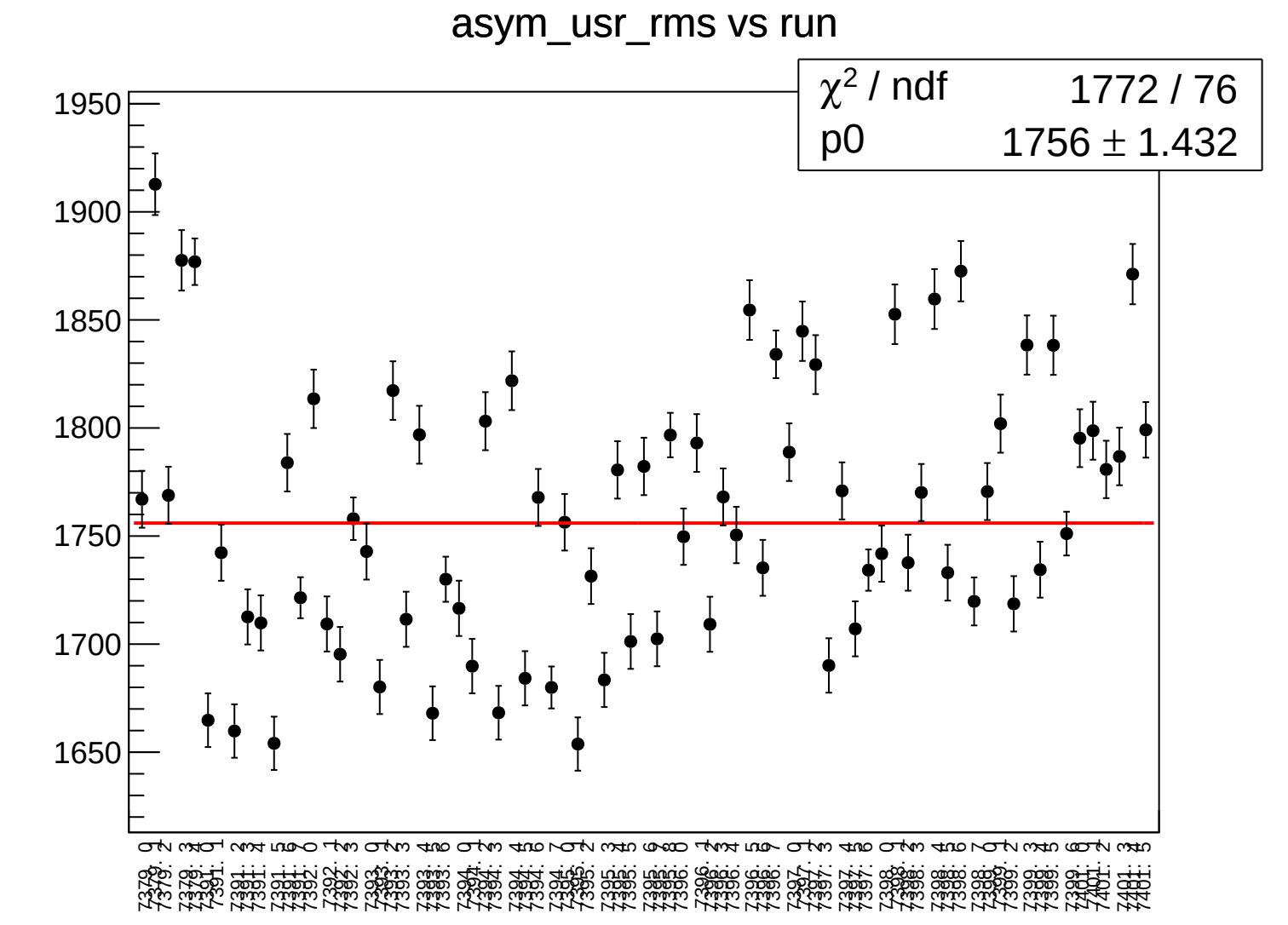

asym_usr_correction_mean vs run
χ² / ndf 68.54 / 76
p0 446.8 ± 1579
60000
40000
20000
0
−20000
−40000
pull
Entries 77
Mean 170.8
Std Dev 112.1
3
2
1
0
−1
−2

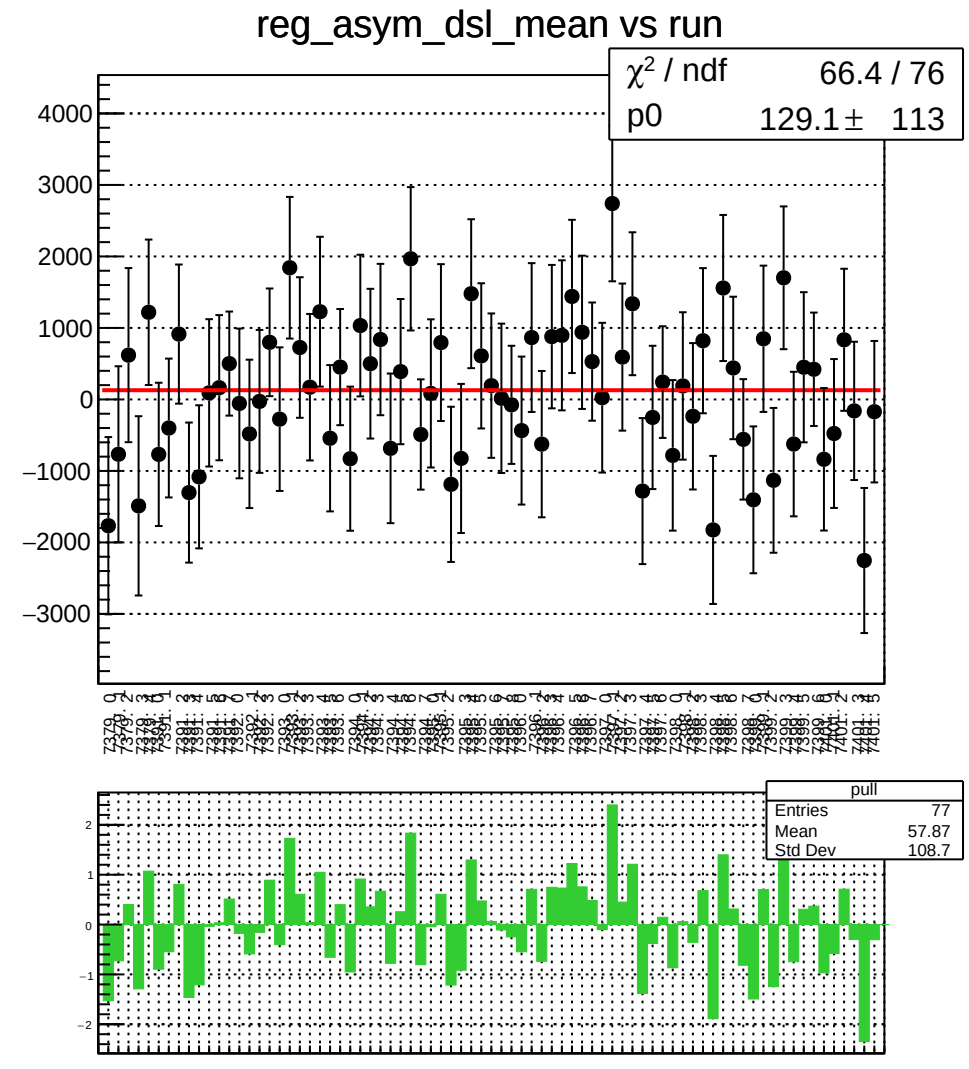

pull1D
Entries 77
Mean −0.01834
Std Dev 0.9433
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

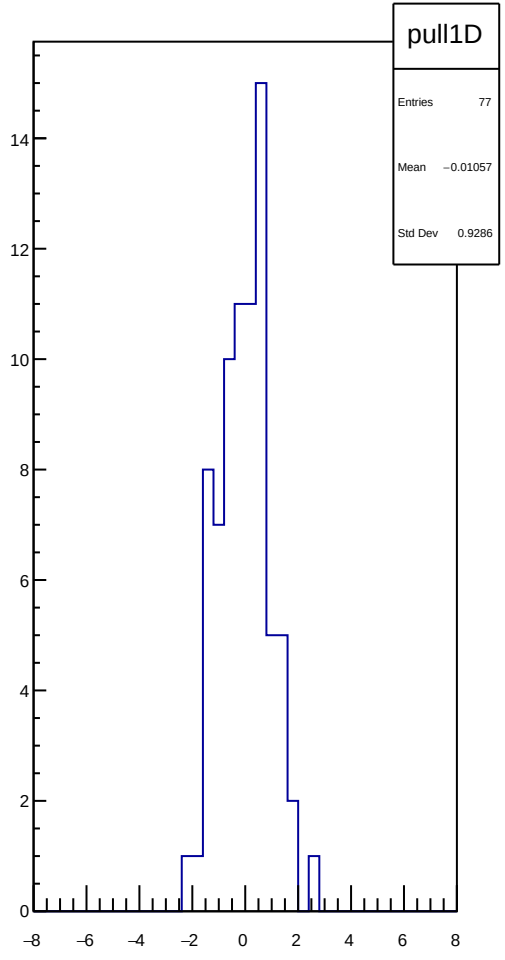

asym_usr_correction_rms vs run
χ² / ndf 4636 / 76
p0 1367 ± 1.116
1600
1550
1500
1450
1400
1350
1300
1250
1200

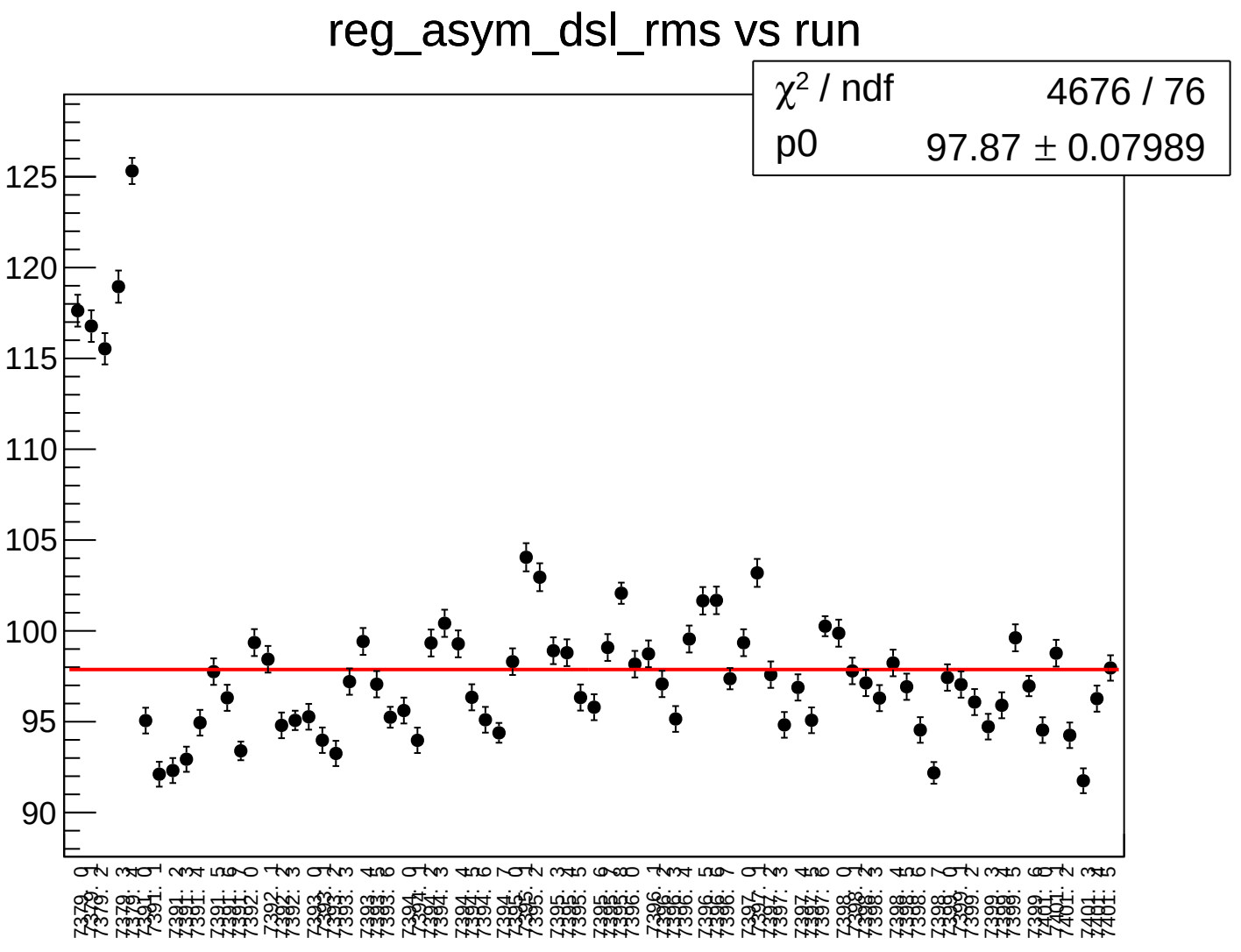

asym_usr_mean vs run
χ² / ndf 78.66 / 76
p0 −3710 ± 2025
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 77
Mean −482.3
Std Dev 533.1
2
1
0
−1
−2

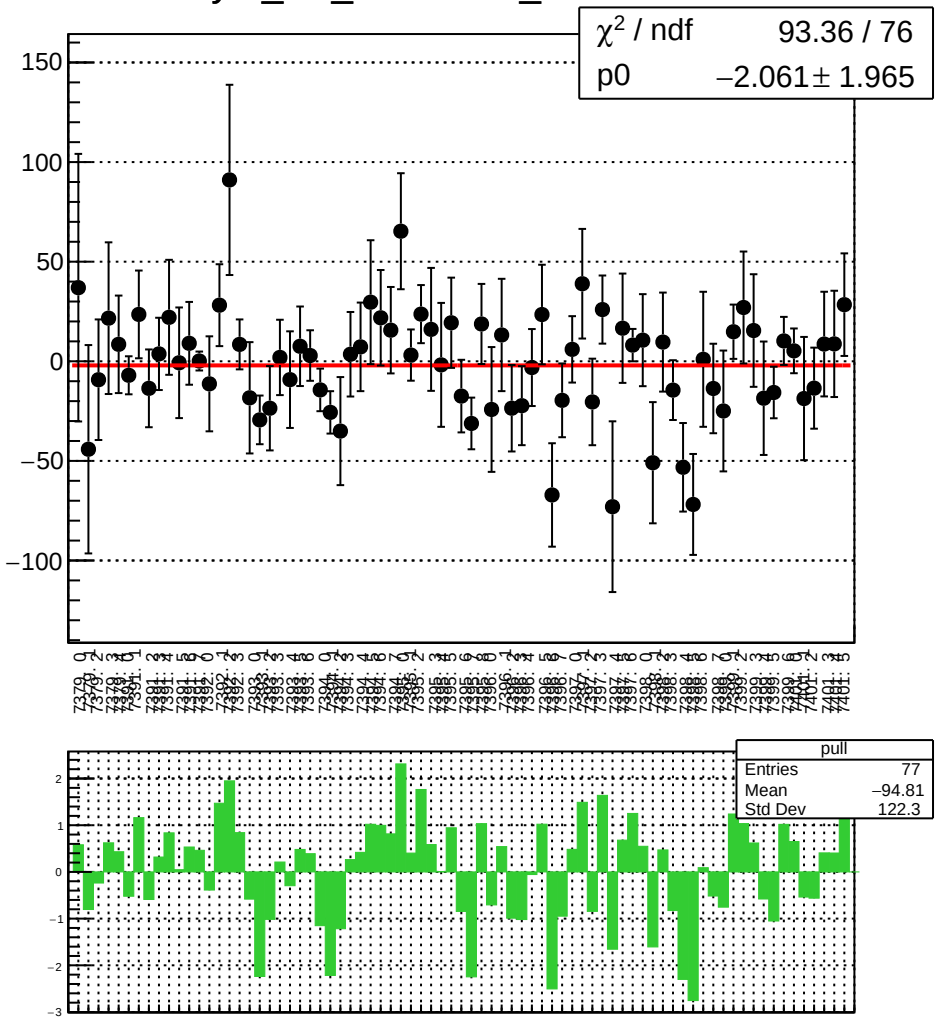

pull1D
Entries 77
Mean −0.005379
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

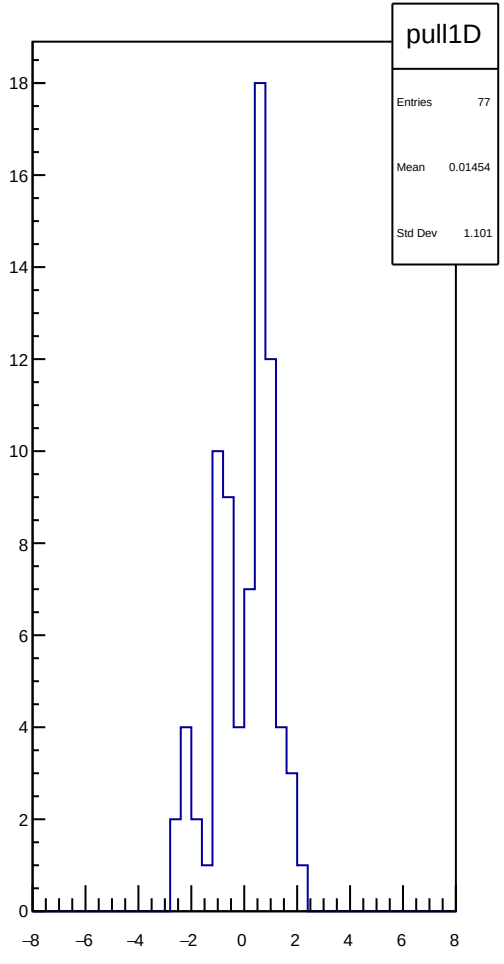

asym_usr_rms vs run
χ² / ndf 1772 / 76
p0 1756 ± 1.432
1950
1900
1850
1800
1750
1700
1650

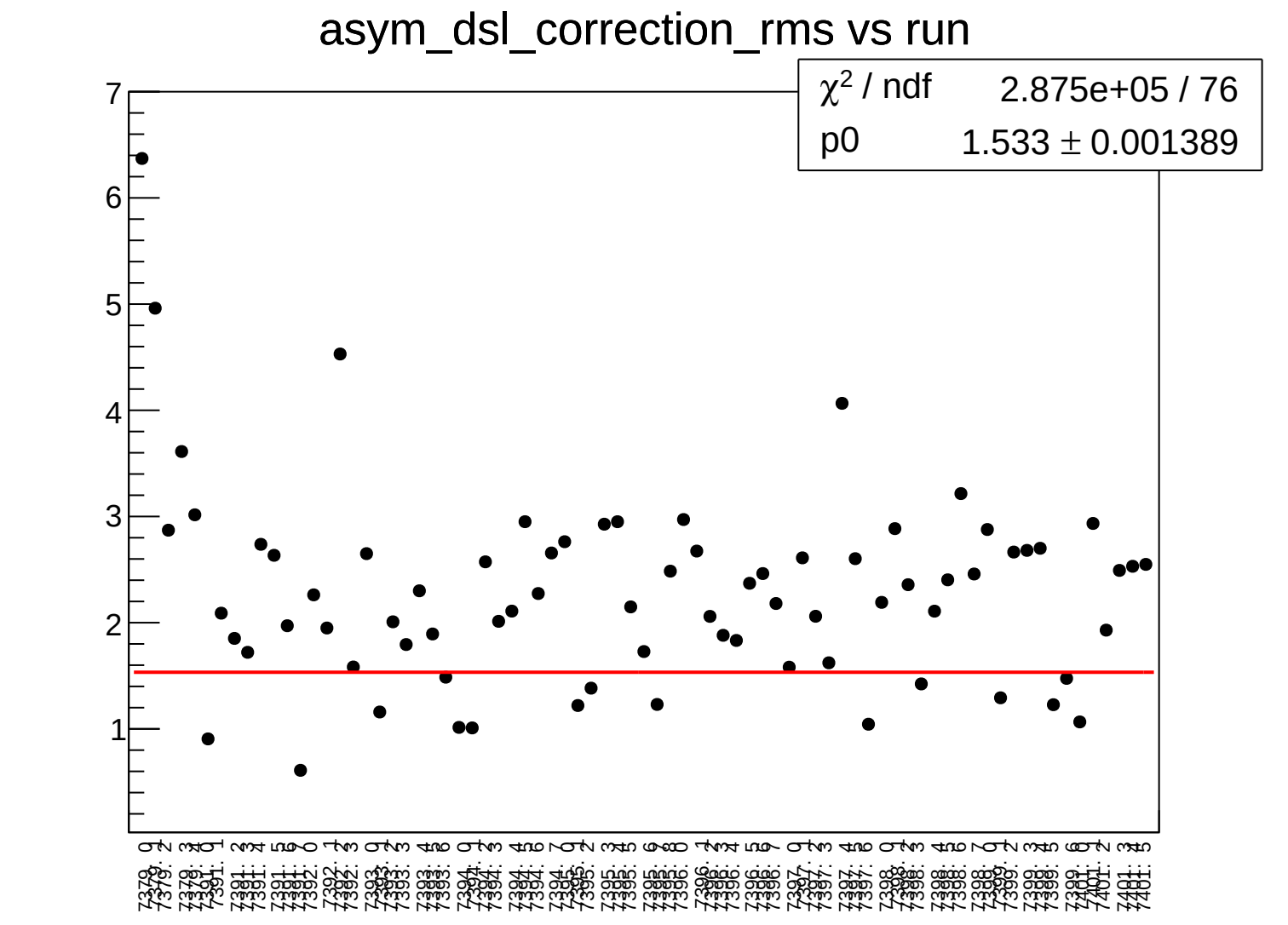

reg_asym_dsl_mean vs run
χ² / ndf 66.4 / 76
p0 129.1 ± 113
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 77
Mean 57.87
Std Dev 108.7
2
1
0
−1
−2

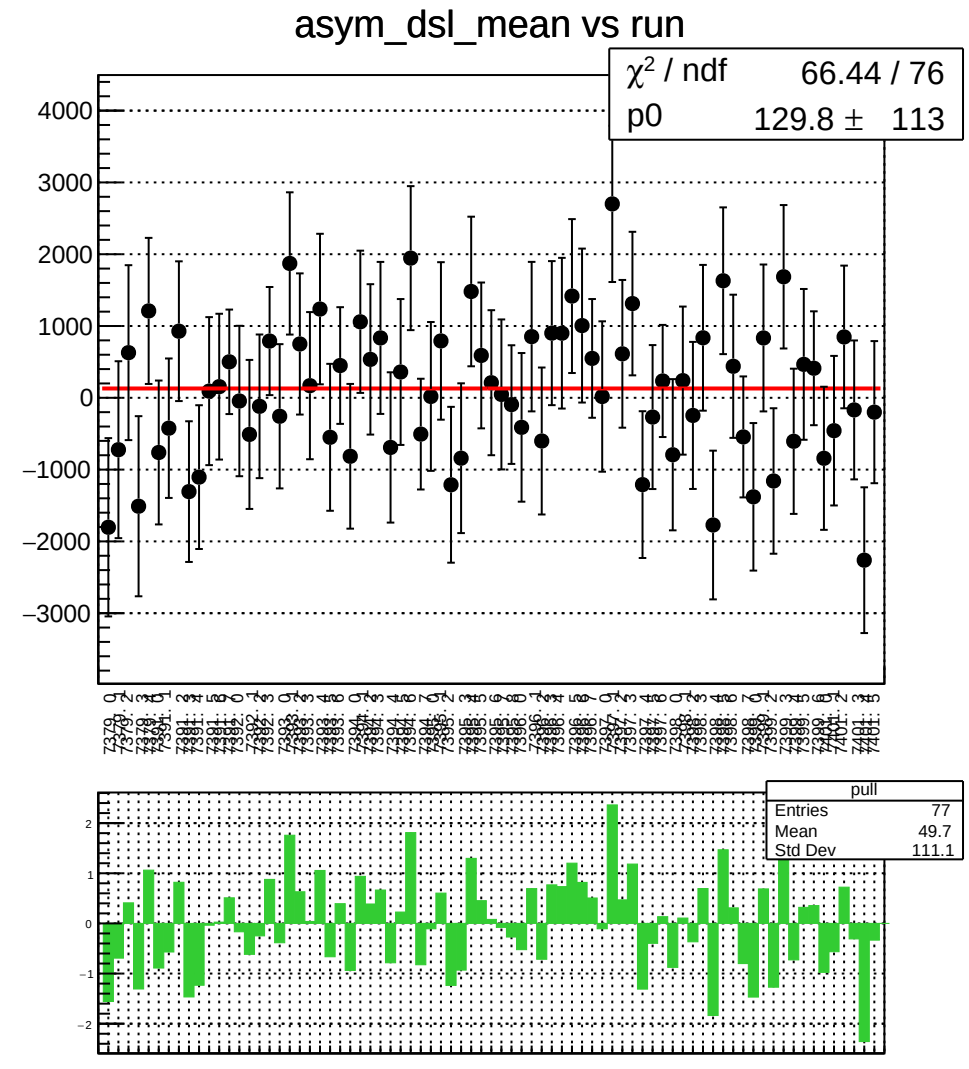

pull1D
Entries 77
Mean −0.01057
Std Dev 0.9286
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

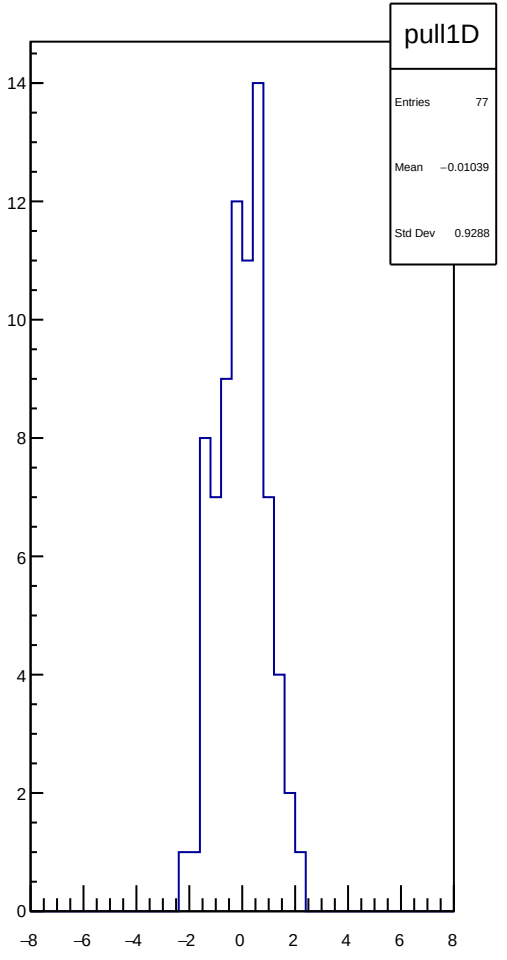

reg_asym_dsl_rms vs run
χ^2 / ndf 4676 / 76
p0 97.87 ± 0.07989
125
120
115
110
105
100
95
90

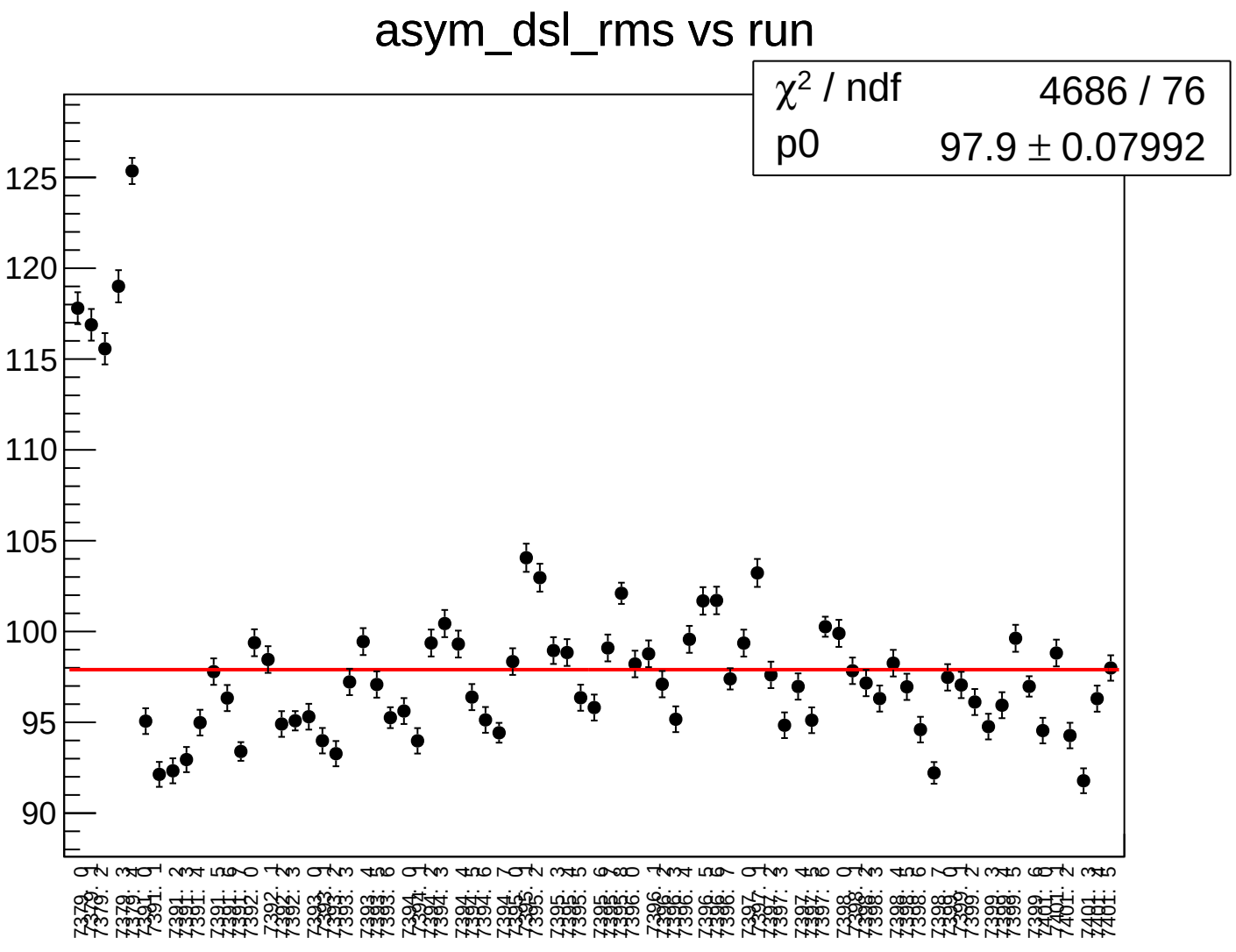

asym_dsl_correction_mean vs run
χ² / ndf 93.36 / 76
p0 −2.061 ± 1.965
150
100
50
0
−50
−100
pull
Entries 77
Mean −94.81
Std Dev 122.3
2
1
0
−1
−2
−3

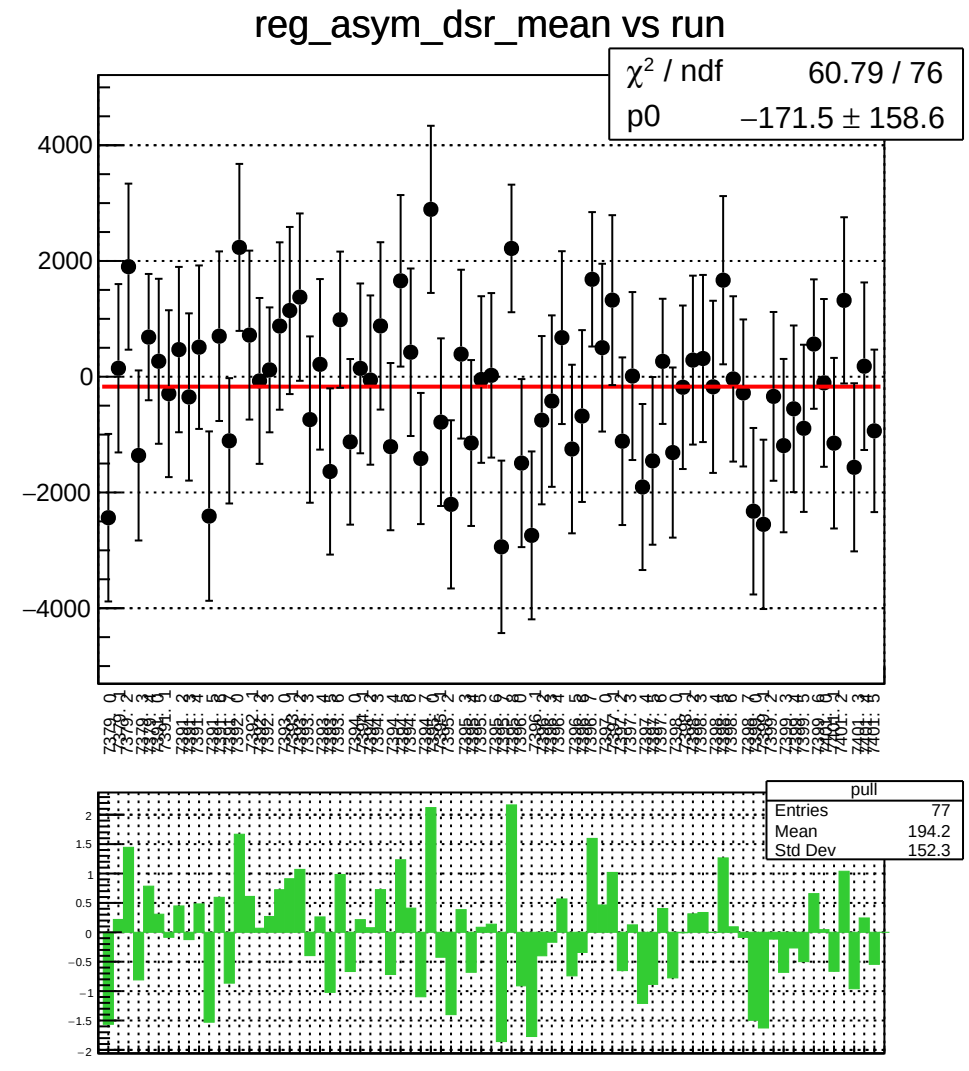

pull1D
Entries 77
Mean 0.01454
Std Dev 1.101
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

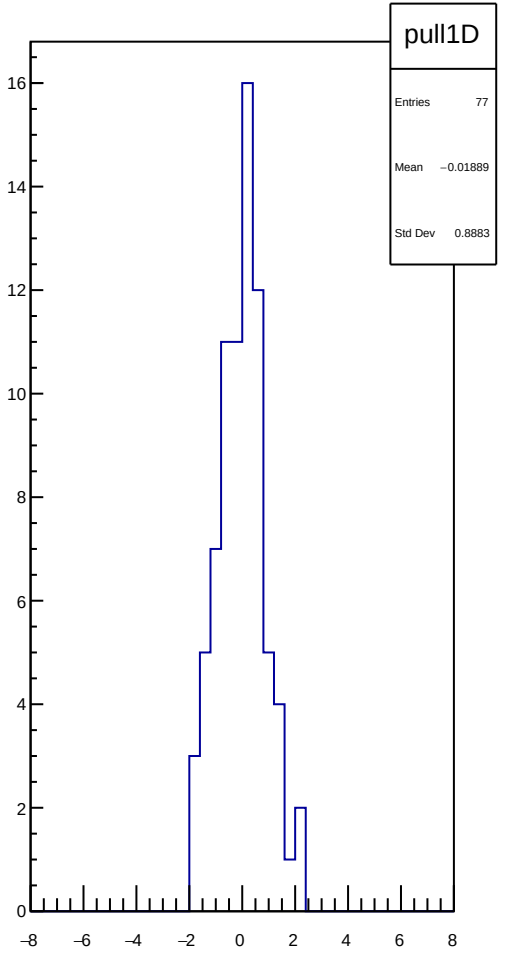

asym_dsl_correction_rms vs run
χ^2 / ndf 2.875e+05 / 76
p0 1.533 ± 0.001389
7
6
5
4
3
2
1

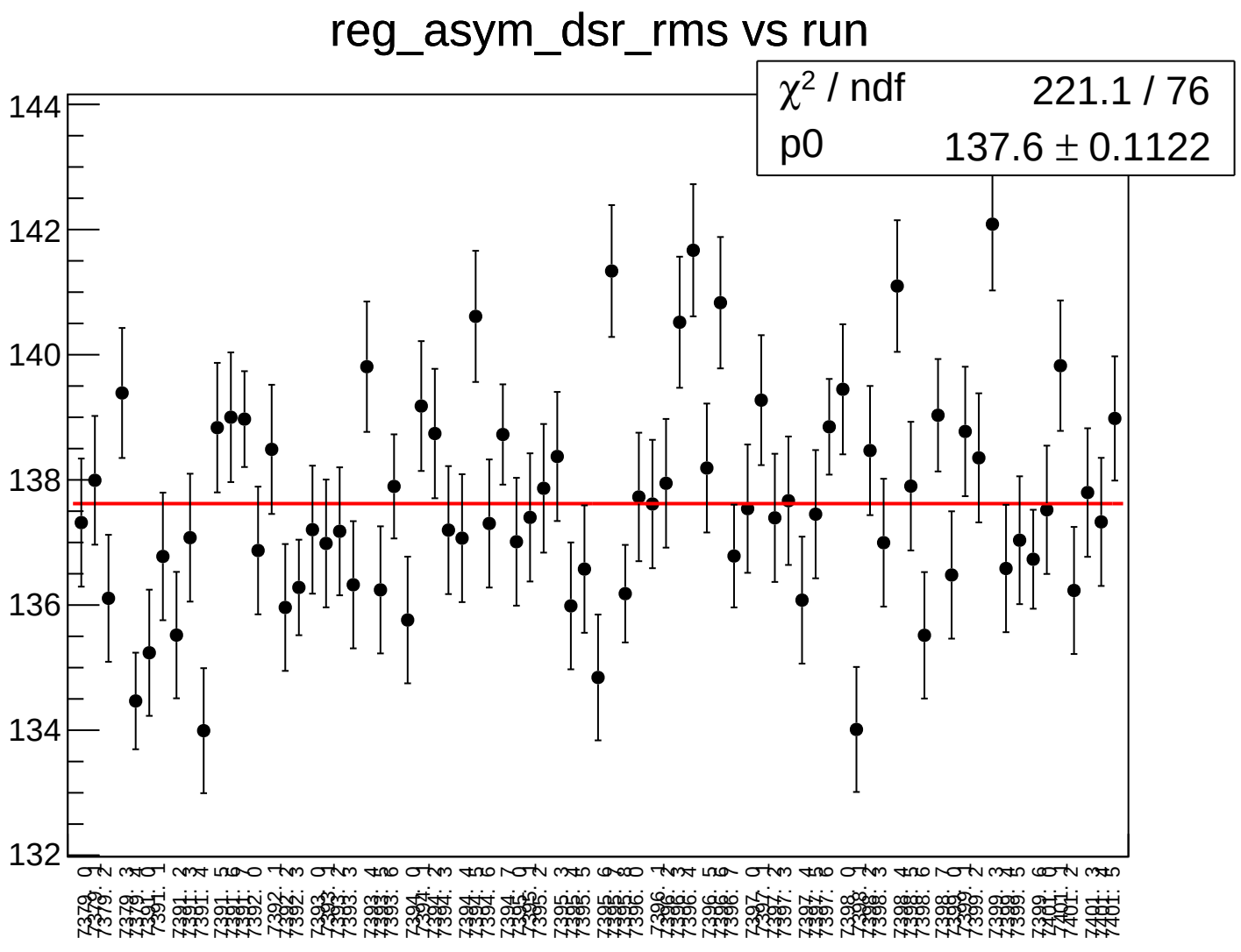

asym_dsl_mean vs run
χ² / ndf 66.44 / 76
p0 129.8 ± 113
pull
Entries 77
Mean 49.7
Std Dev 111.1

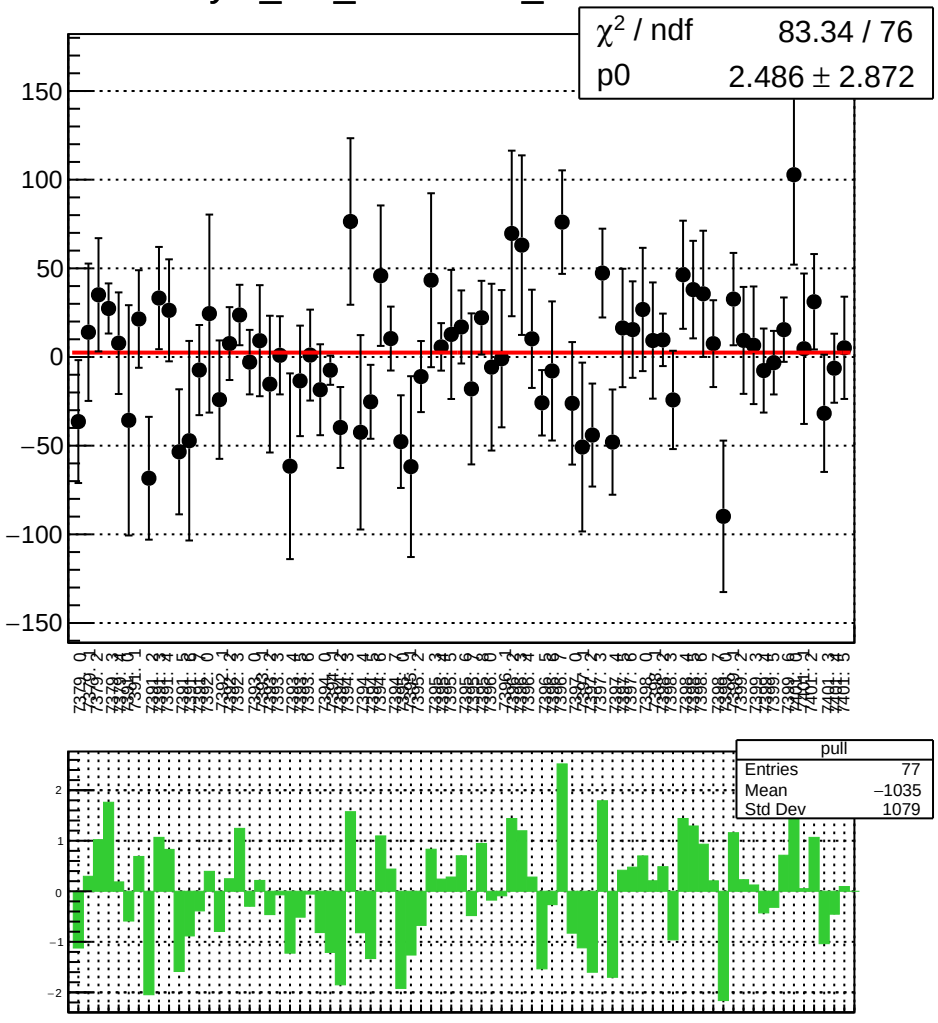

pull1D
Entries 77
Mean −0.01039
Std Dev 0.9288

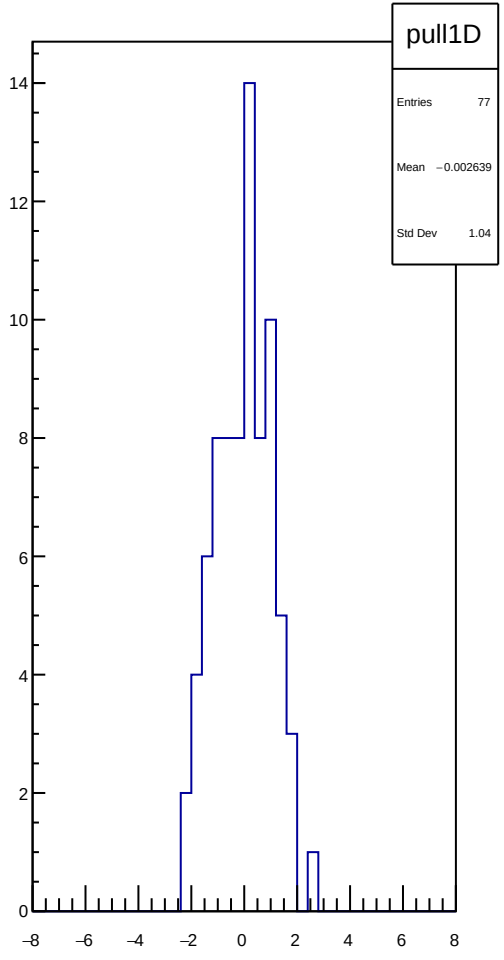

asym_dsl_rms vs run
χ² / ndf 4686 / 76
p0 97.9 ± 0.07992
125
120
115
110
105
100
95
90

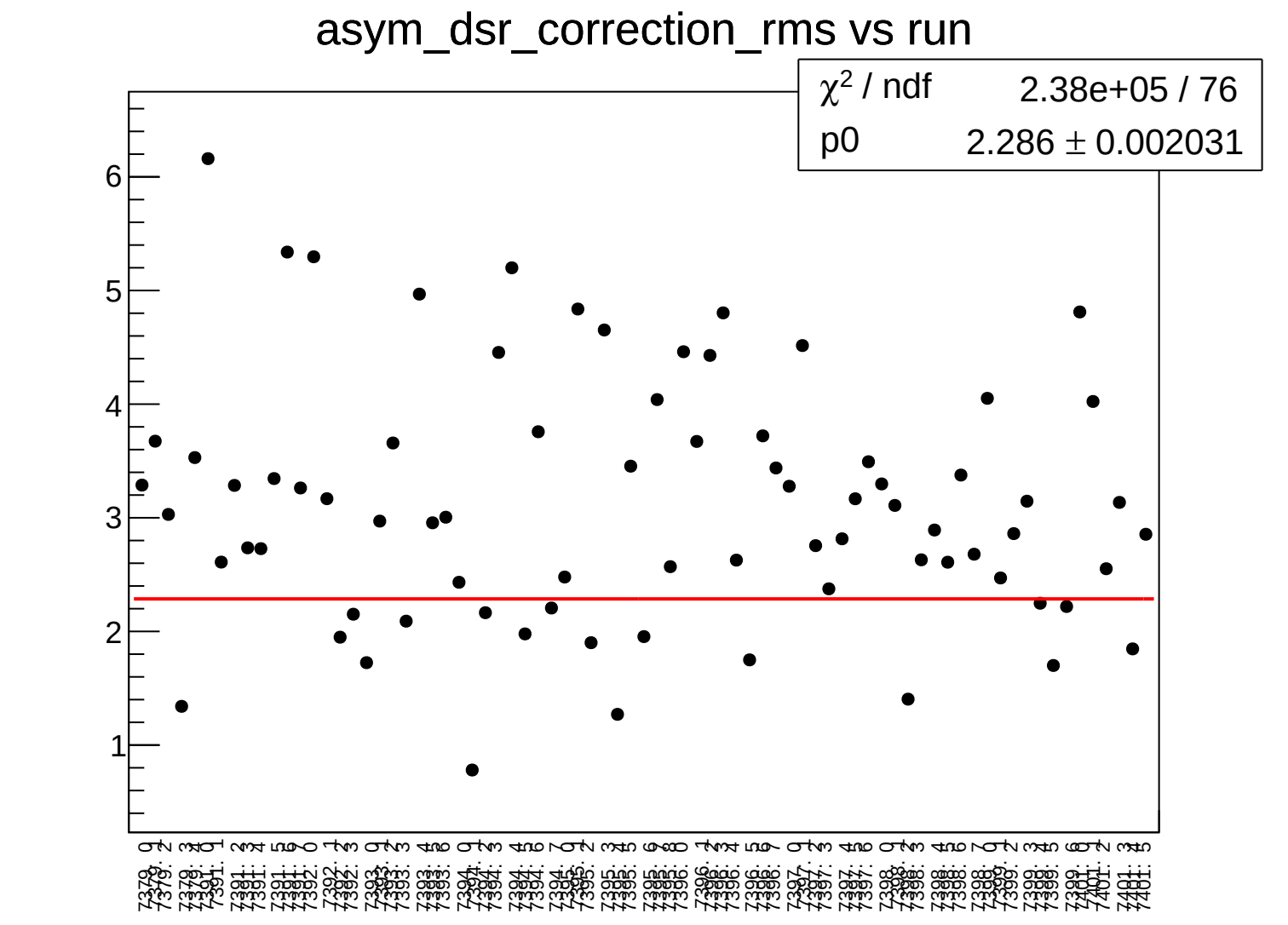

reg_asym_dsr_mean vs run
χ² / ndf 60.79 / 76
p0 −171.5 ± 158.6
pull
Entries 77
Mean 194.2
Std Dev 152.3

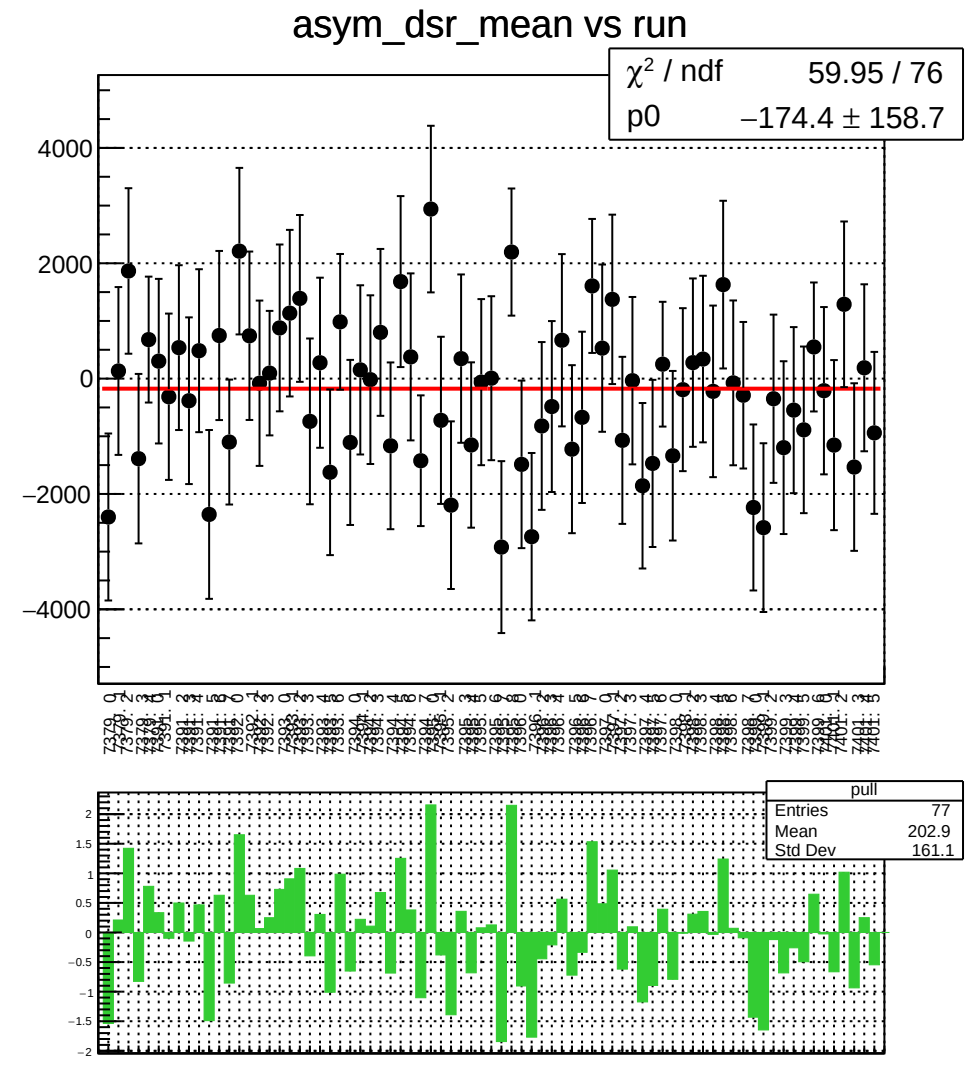

pull1D
Entries 77
Mean −0.01889
Std Dev 0.8883

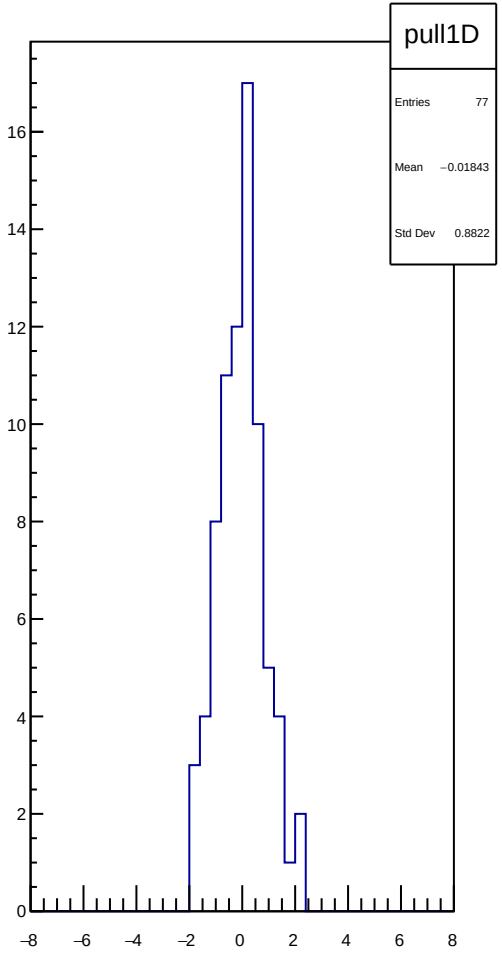

reg_asym_dsr_rms vs run
χ^2 / ndf 221.1 / 76
p0 137.6 ± 0.1122
144
142
140
138
136
134
132

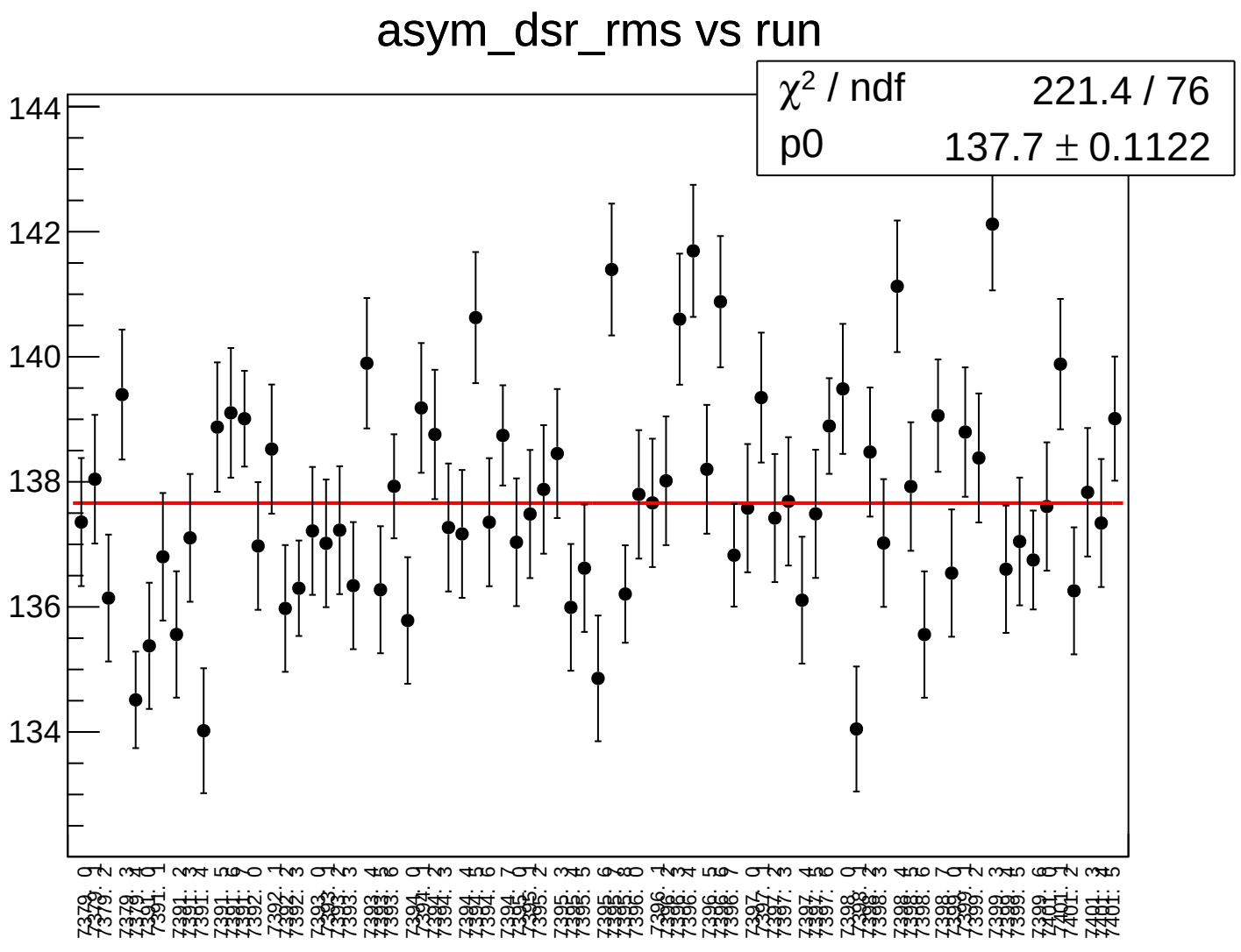

asym_dsr_correction_mean vs run
χ² / ndf 83.34 / 76
p0 2.486 ± 2.872
150
100
50
0
−50
−100
−150
pull
Entries 77
Mean −1035
Std Dev 1079
2
1
0
−1
−2

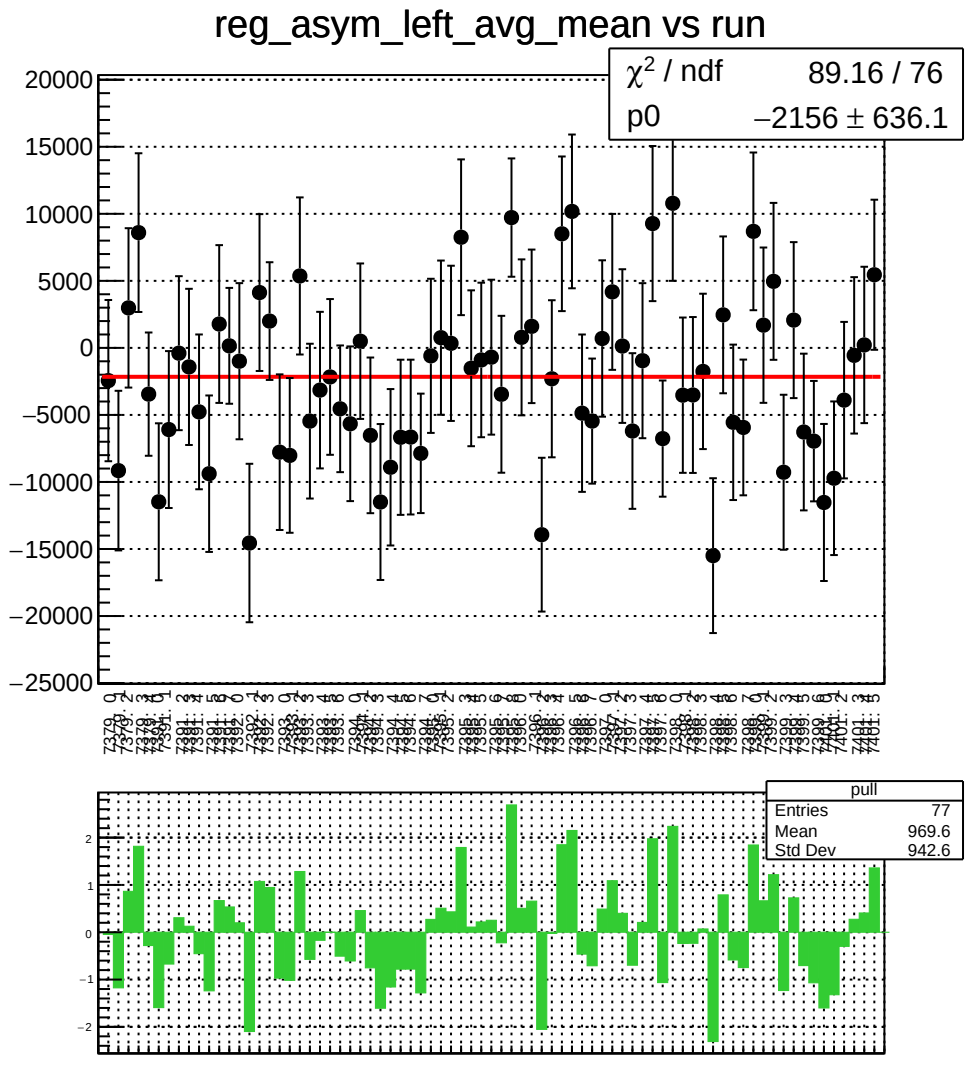

pull1D
Entries 77
Mean −0.002639
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

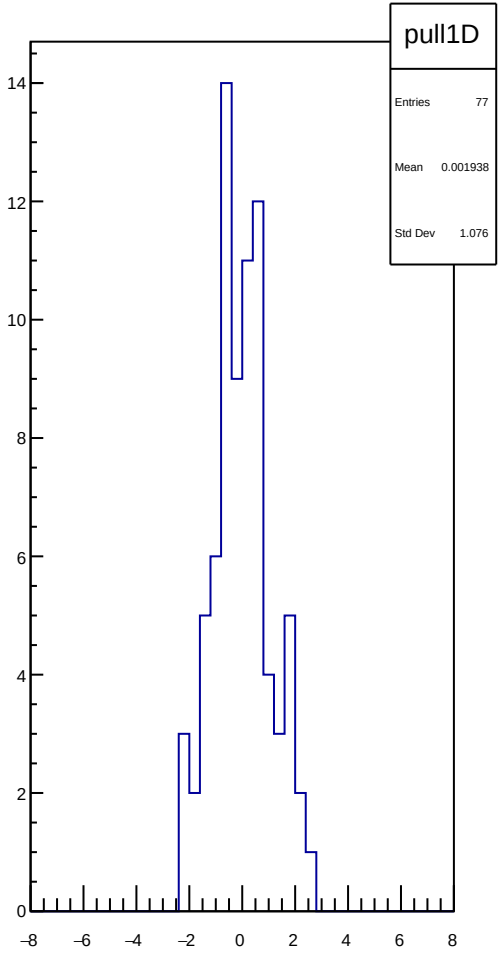

asym_dsr_correction_rms vs run
χ^2 / ndf 2.38e+05 / 76
p0 2.286 ± 0.002031
6
5
4
3
2
1

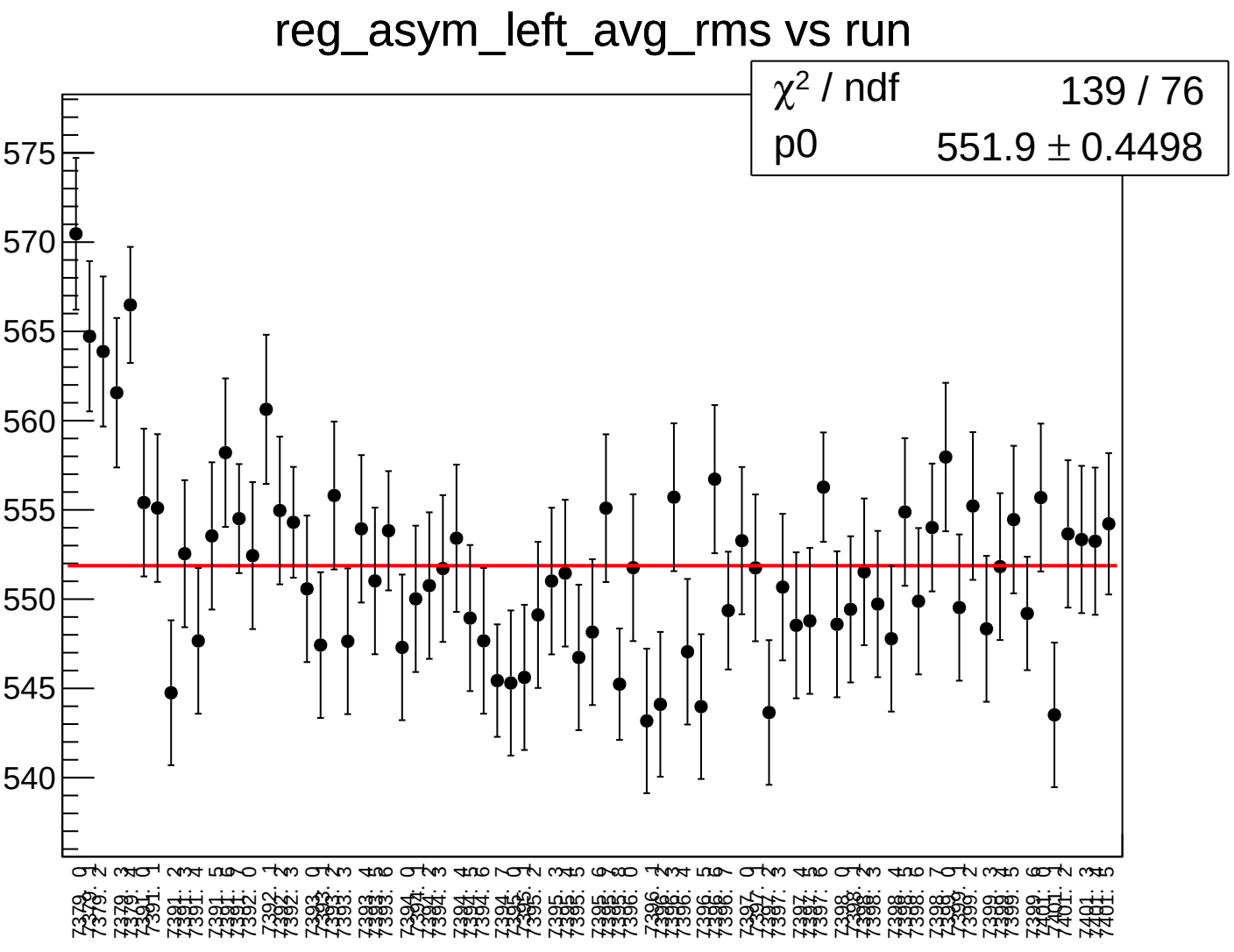

asym_dsr_mean vs run
χ² / ndf 59.95 / 76
p0 −174.4 ± 158.7
4000
2000
0
−2000
−4000
pull
Entries 77
Mean 202.9
Std Dev 161.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

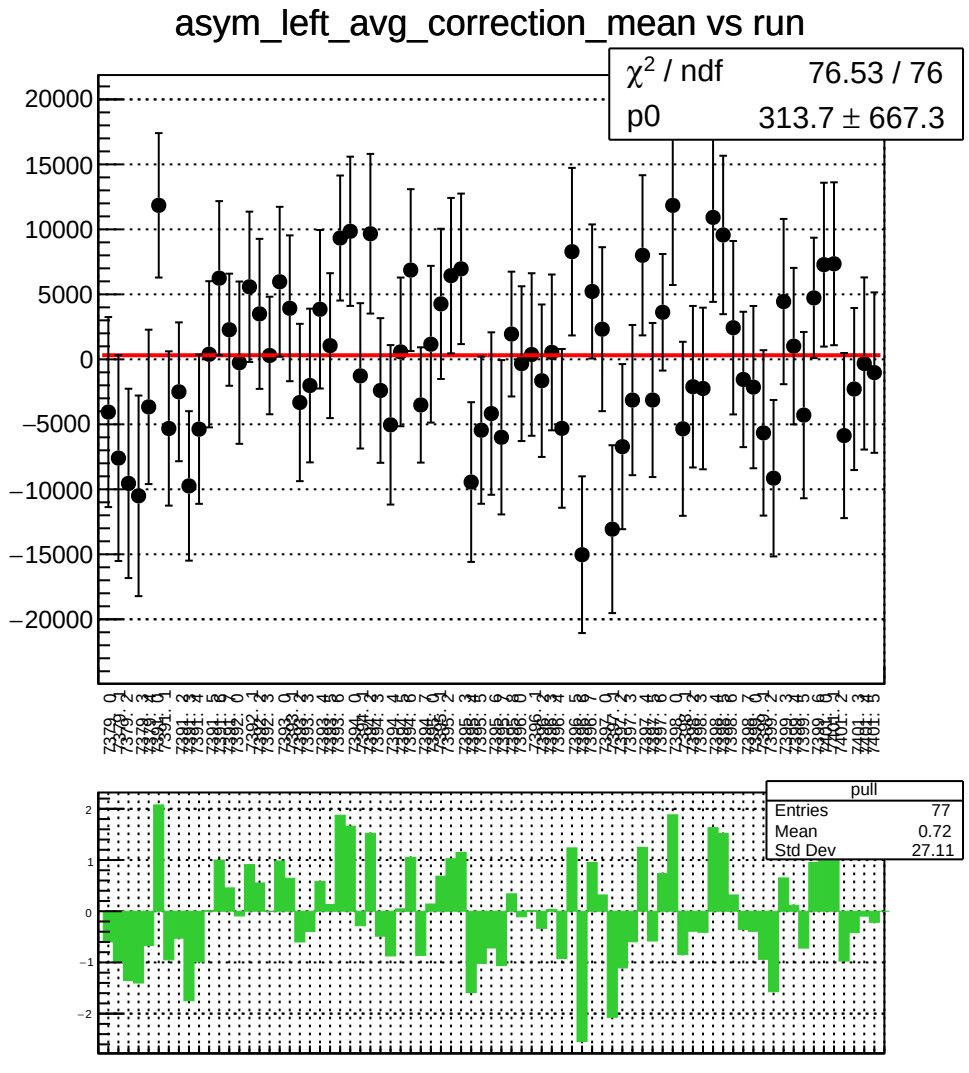

pull1D
Entries 77
Mean −0.01843
Std Dev 0.8822
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

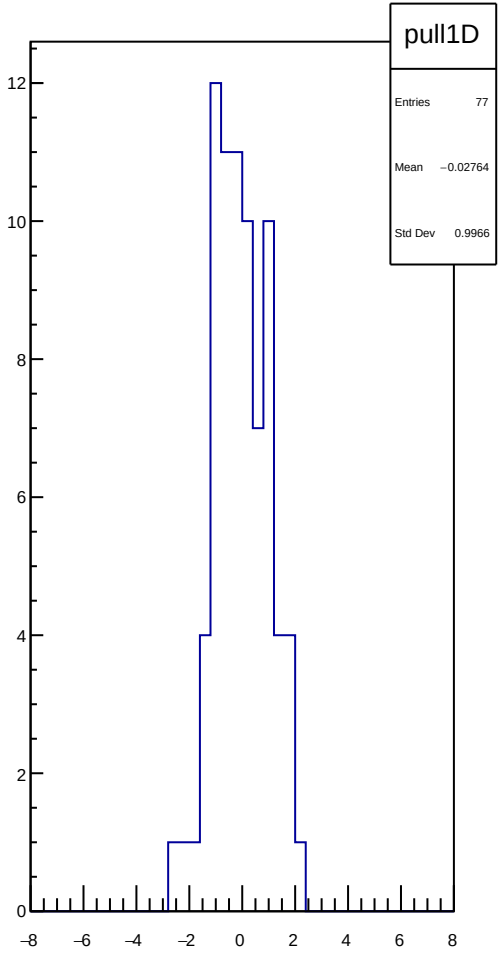

asym_dsr_rms vs run
χ^2 / ndf 221.4 / 76
p0 137.7 ± 0.1122
144
142
140
138
136
134

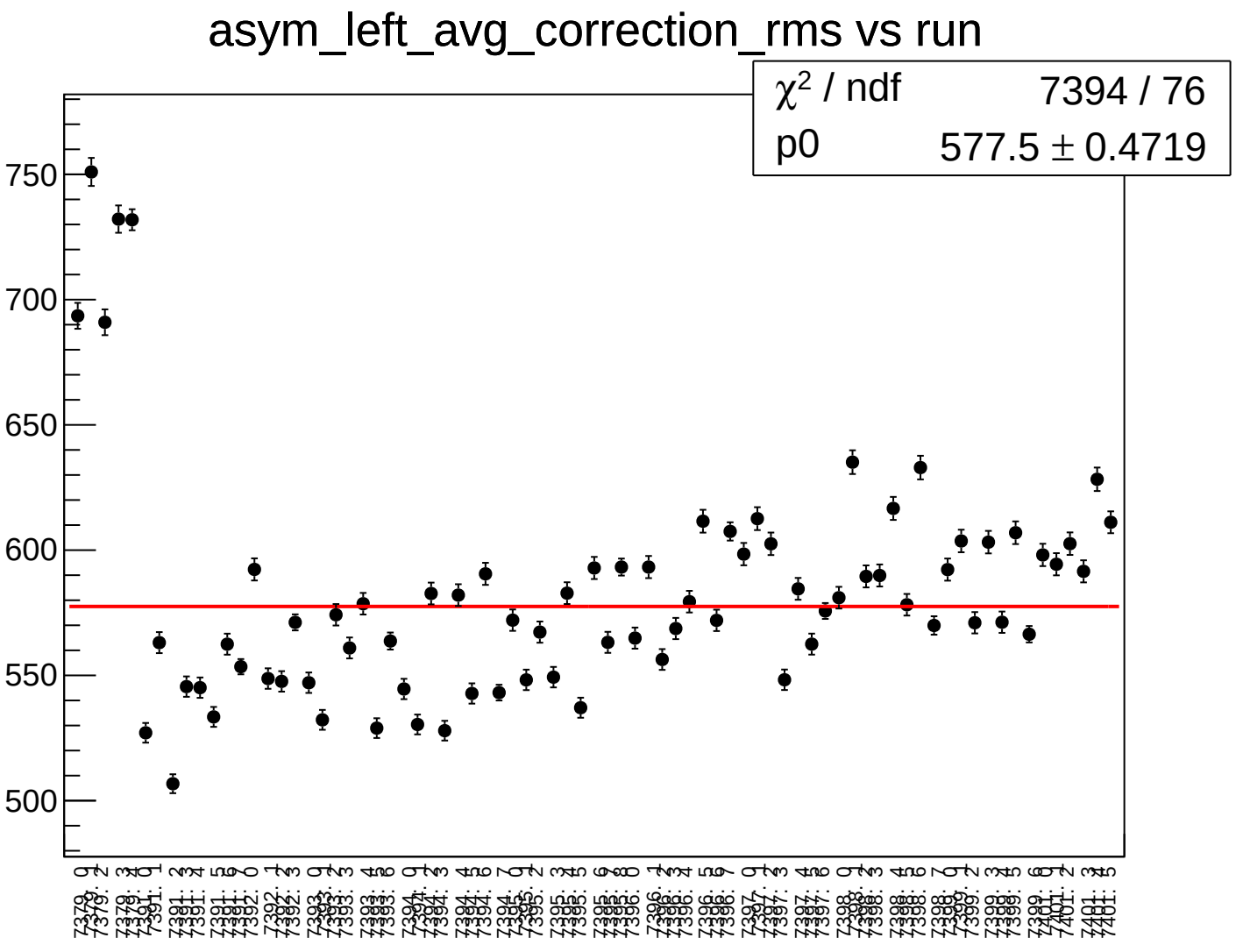

reg_asym_left_avg_mean vs run
χ² / ndf 89.16 / 76
p0 −2156 ± 636.1
pull
Entries 77
Mean 969.6
Std Dev 942.6

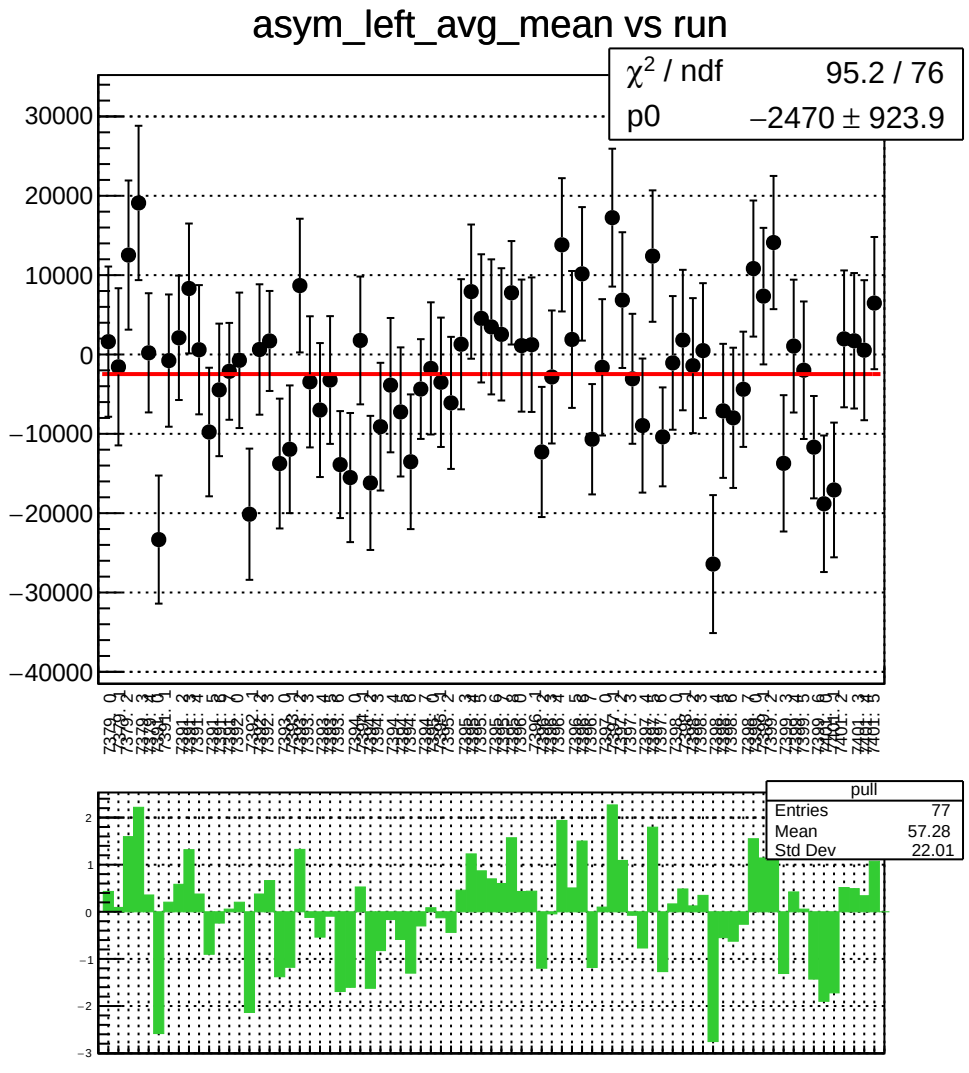

pull1D
Entries 77
Mean 0.001938
Std Dev 1.076

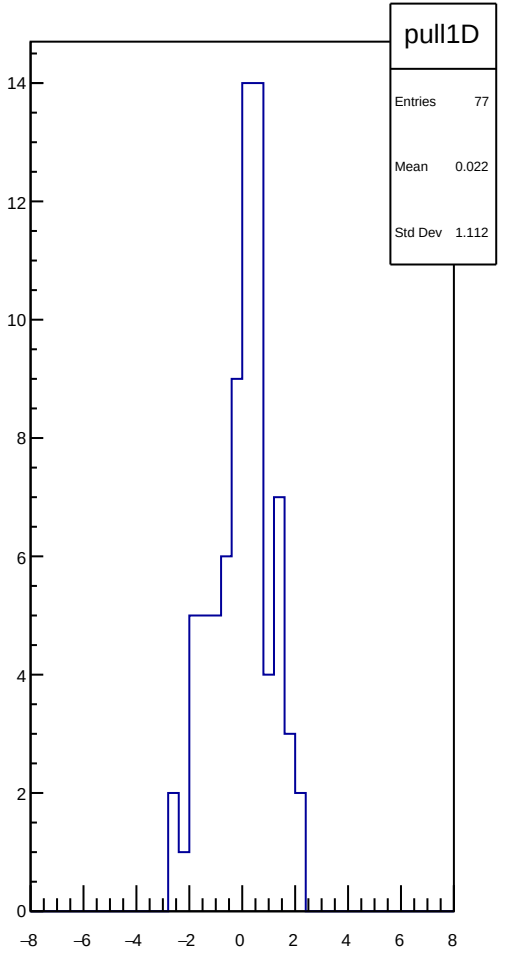

reg_asym_left_avg_rms vs run
χ² / ndf 139 / 76
p0 551.9 ± 0.4498
575
570
565
560
555
550
545
540

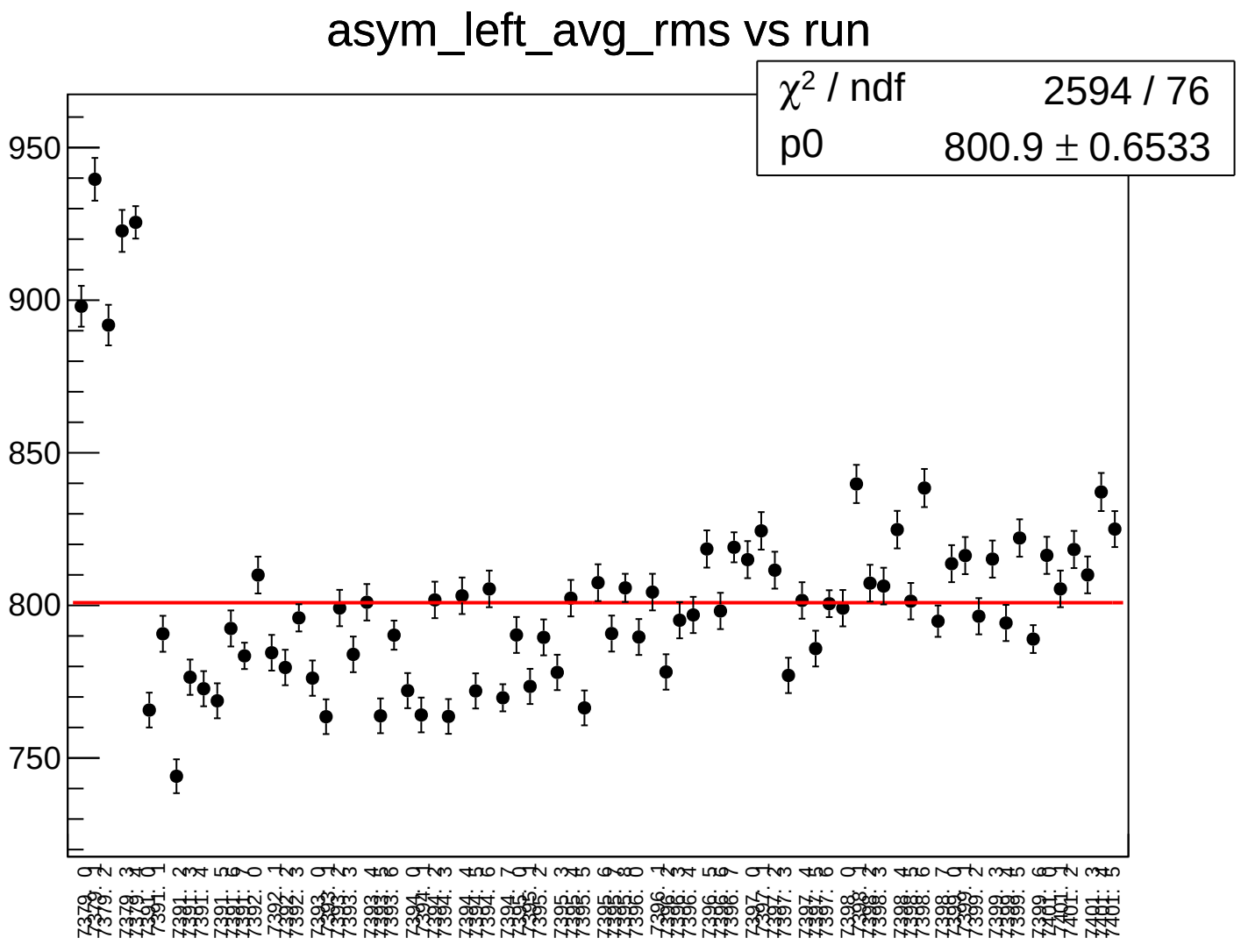

asym_left_avg_correction_mean vs run
χ² / ndf 76.53 / 76
p0 313.7 ± 667.3
pull
Entries 77
Mean 0.72
Std Dev 27.11

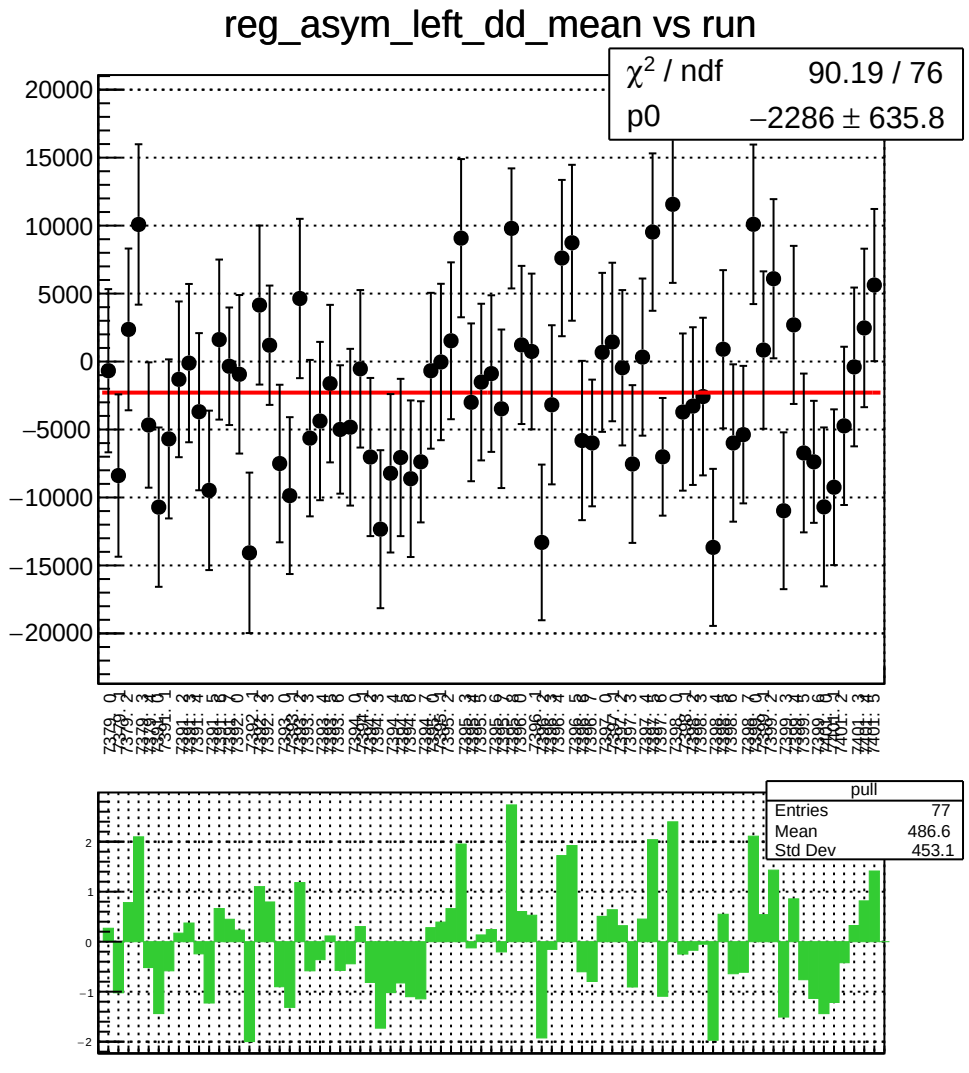

pull1D
Entries 77
Mean −0.02764
Std Dev 0.9966

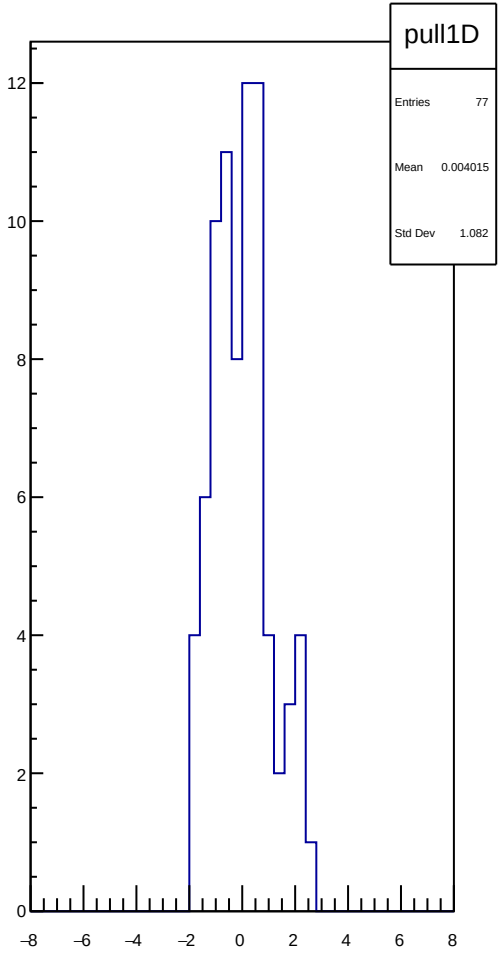

asym_left_avg_correction_rms vs run
χ² / ndf 7394 / 76
p0 577.5 ± 0.4719
750
700
650
600
550
500

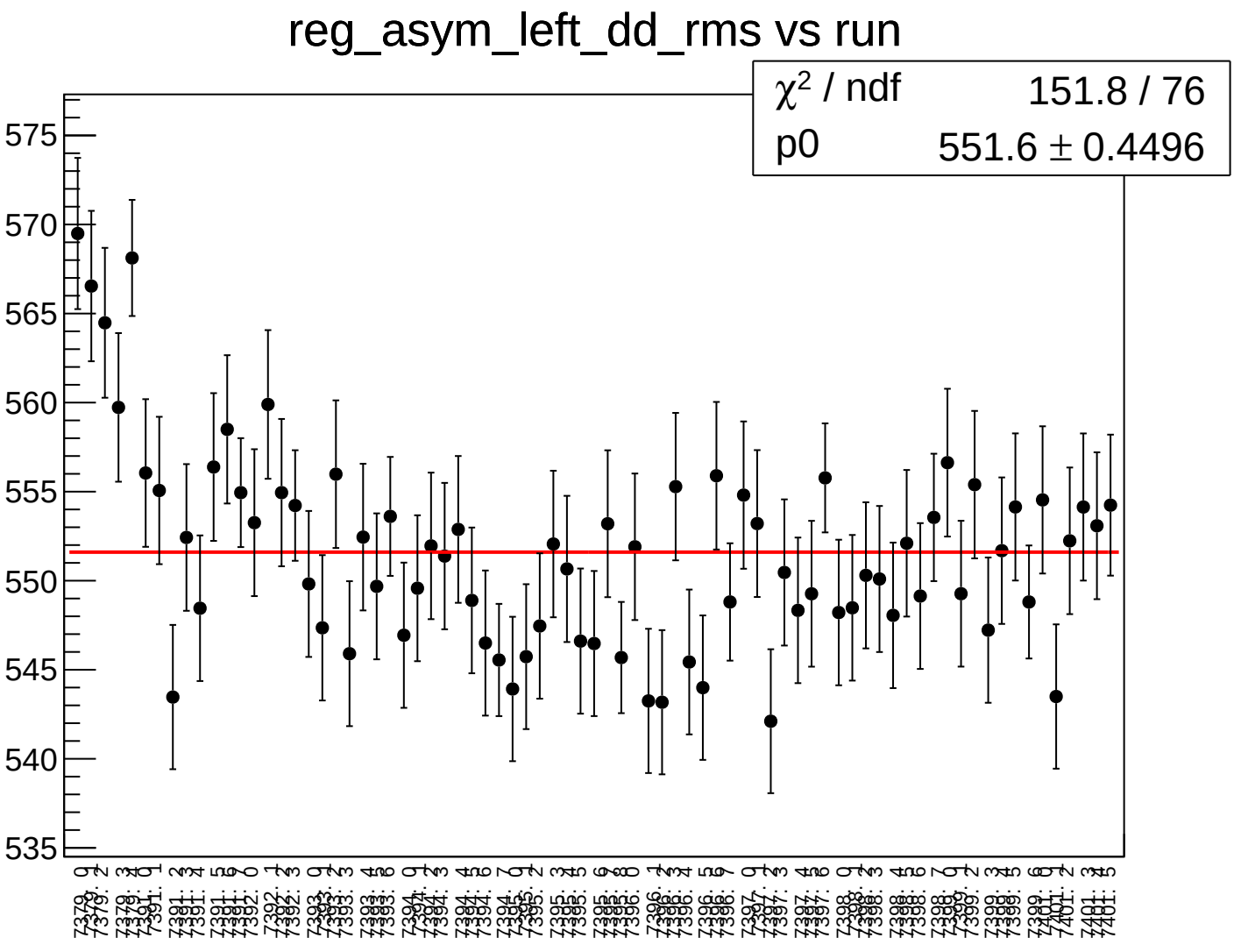

asym_left_avg_mean vs run
χ² / ndf 95.2 / 76
p0 −2470 ± 923.9
pull
Entries 77
Mean 57.28
Std Dev 22.01

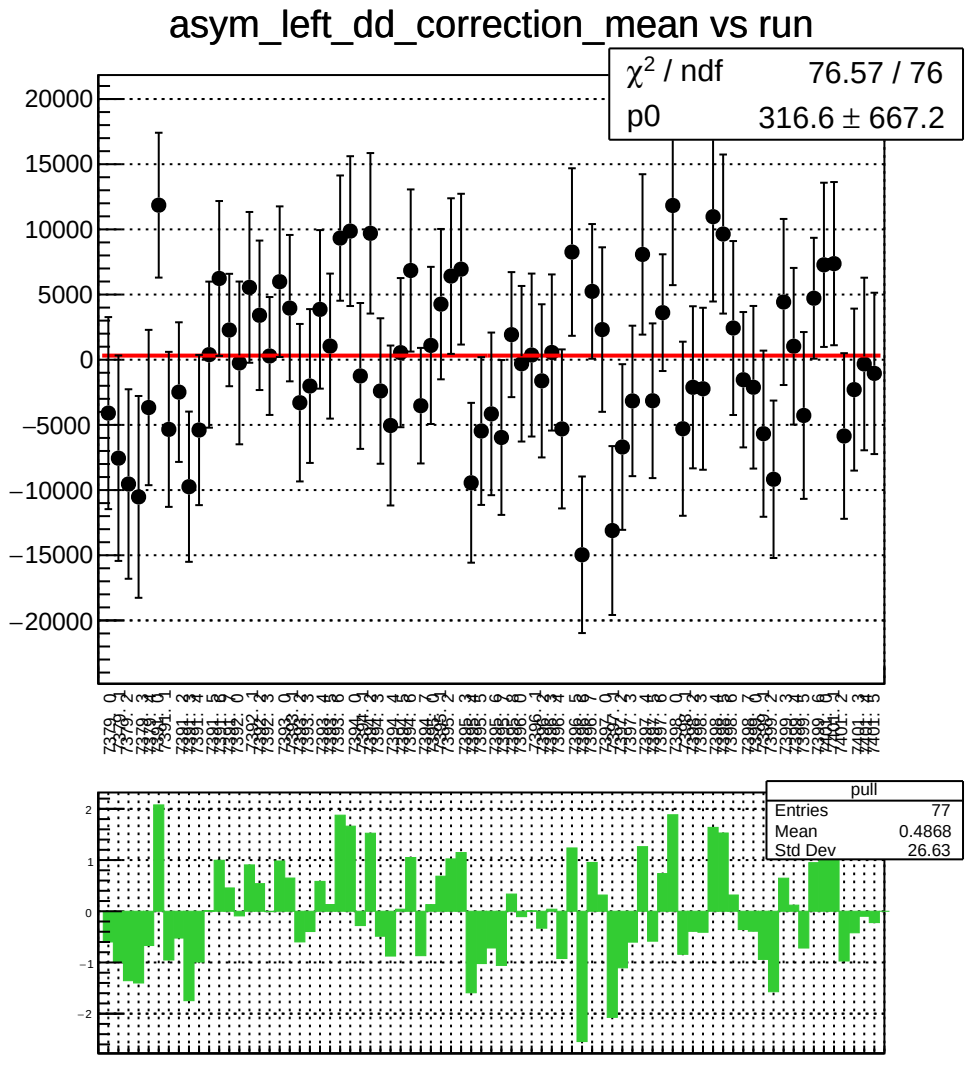

pull1D
Entries 77
Mean 0.022
Std Dev 1.112

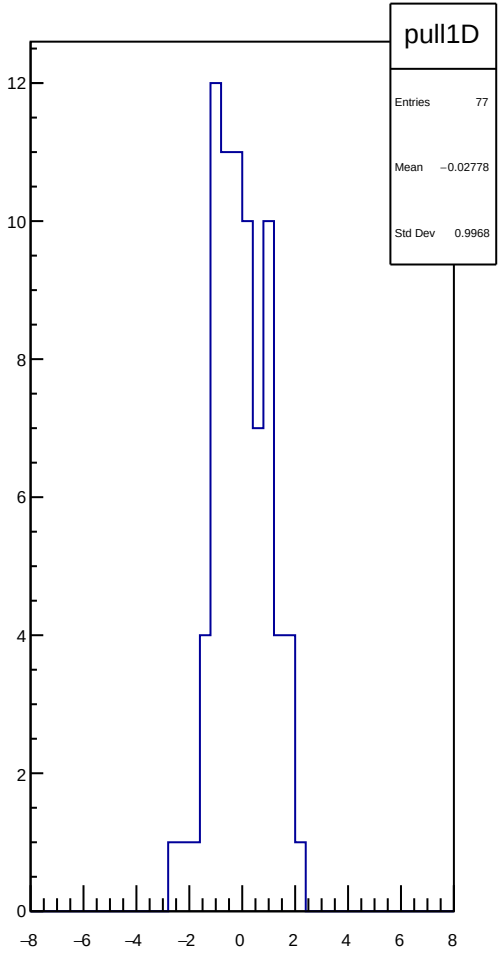

asym_left_avg_rms vs run
χ² / ndf 2594 / 76
p0 800.9 ± 0.6533
950
900
850
800
750

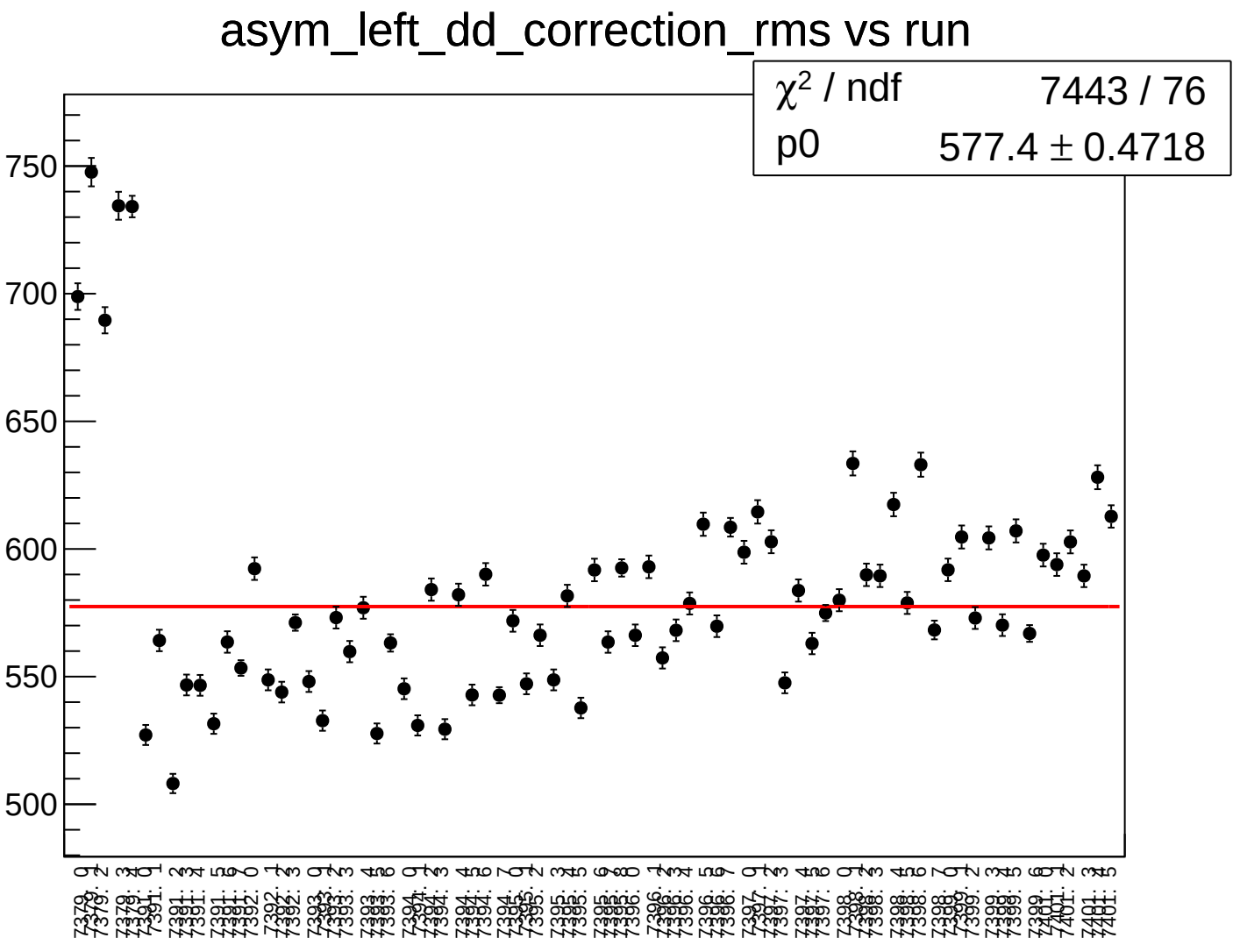

reg_asym_left_dd_mean vs run
χ² / ndf 90.19 / 76
p0 −2286 ± 635.8
pull
Entries 77
Mean 486.6
Std Dev 453.1

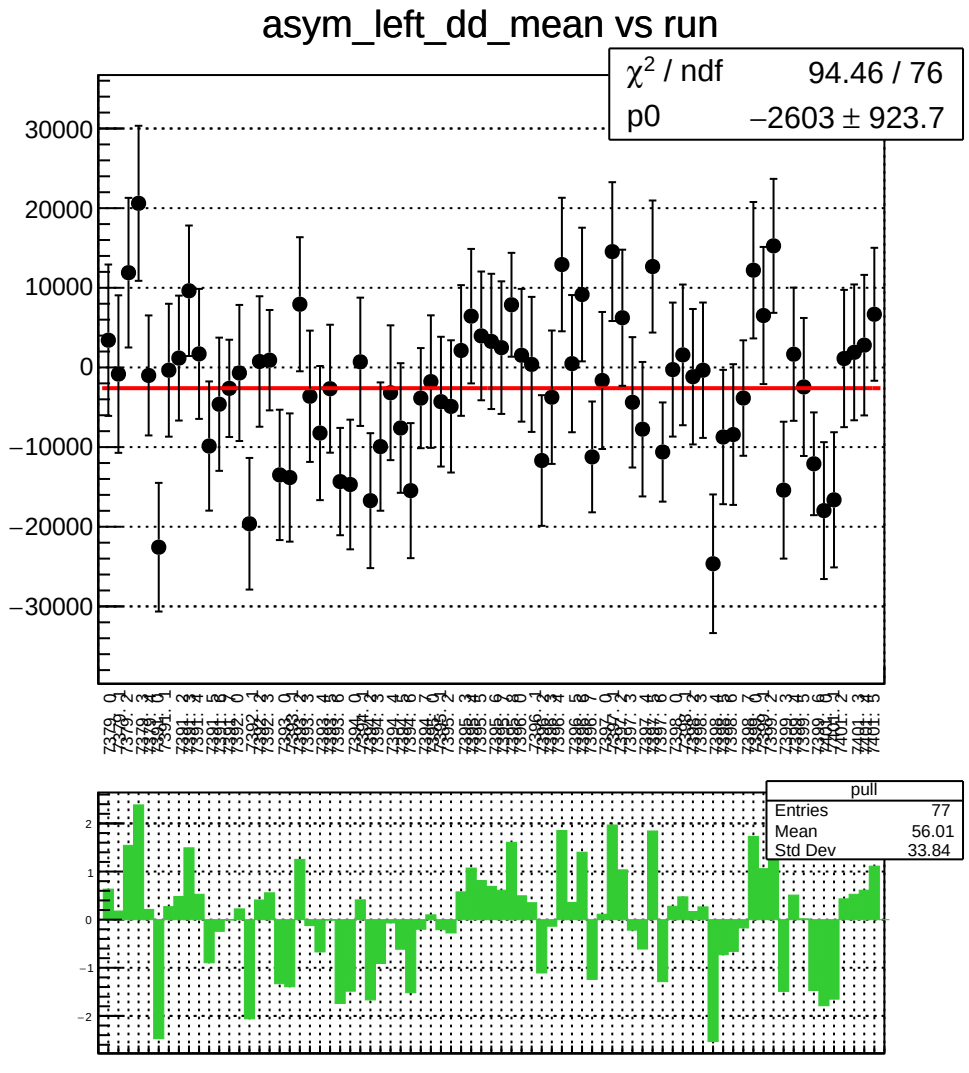

pull1D
Entries 77
Mean 0.004015
Std Dev 1.082

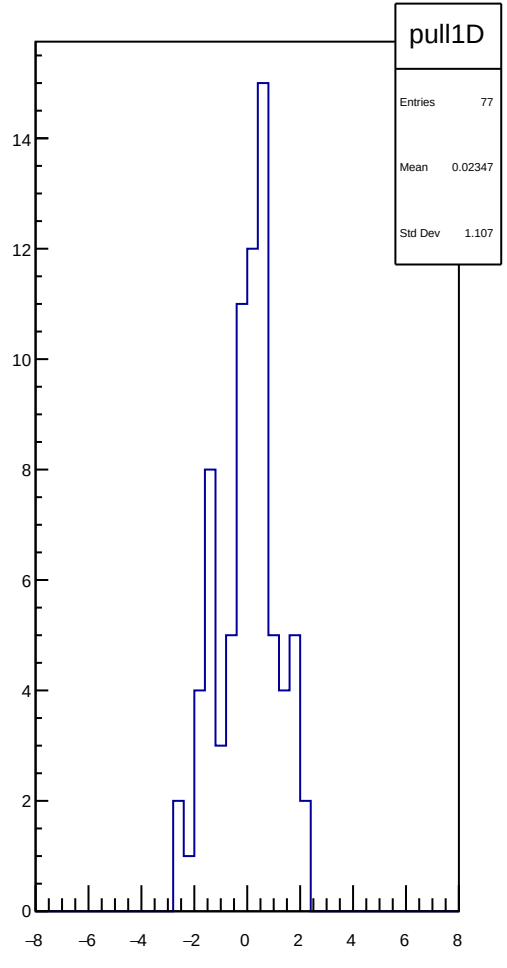

reg_asym_left_dd_rms vs run
χ² / ndf 151.8 / 76
p0 551.6 ± 0.4496
575
570
565
560
555
550
545
540
535

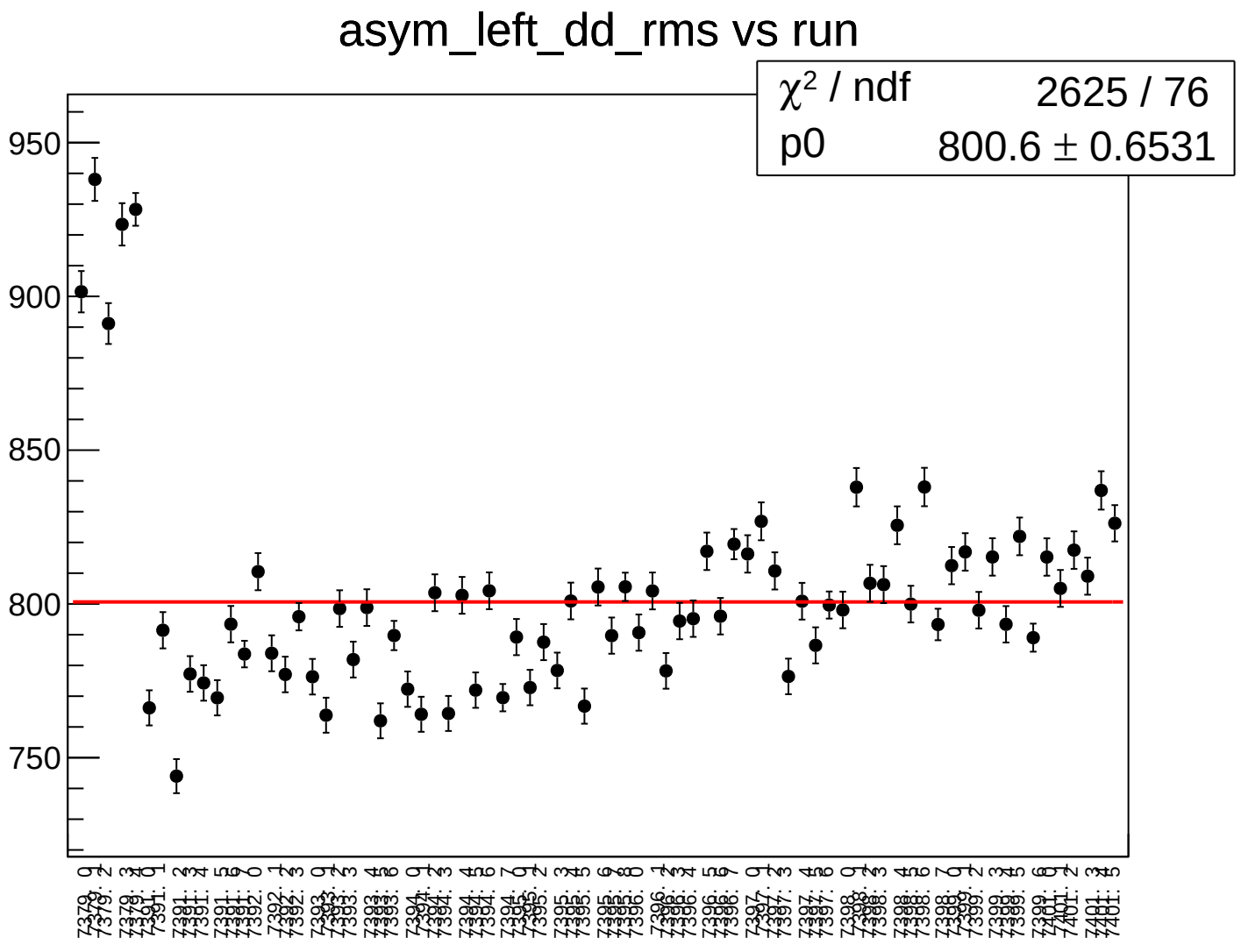

asym_left_dd_correction_mean vs run
χ² / ndf 76.57 / 76
p0 316.6 ± 667.2
pull
Entries 77
Mean 0.4868
Std Dev 26.63

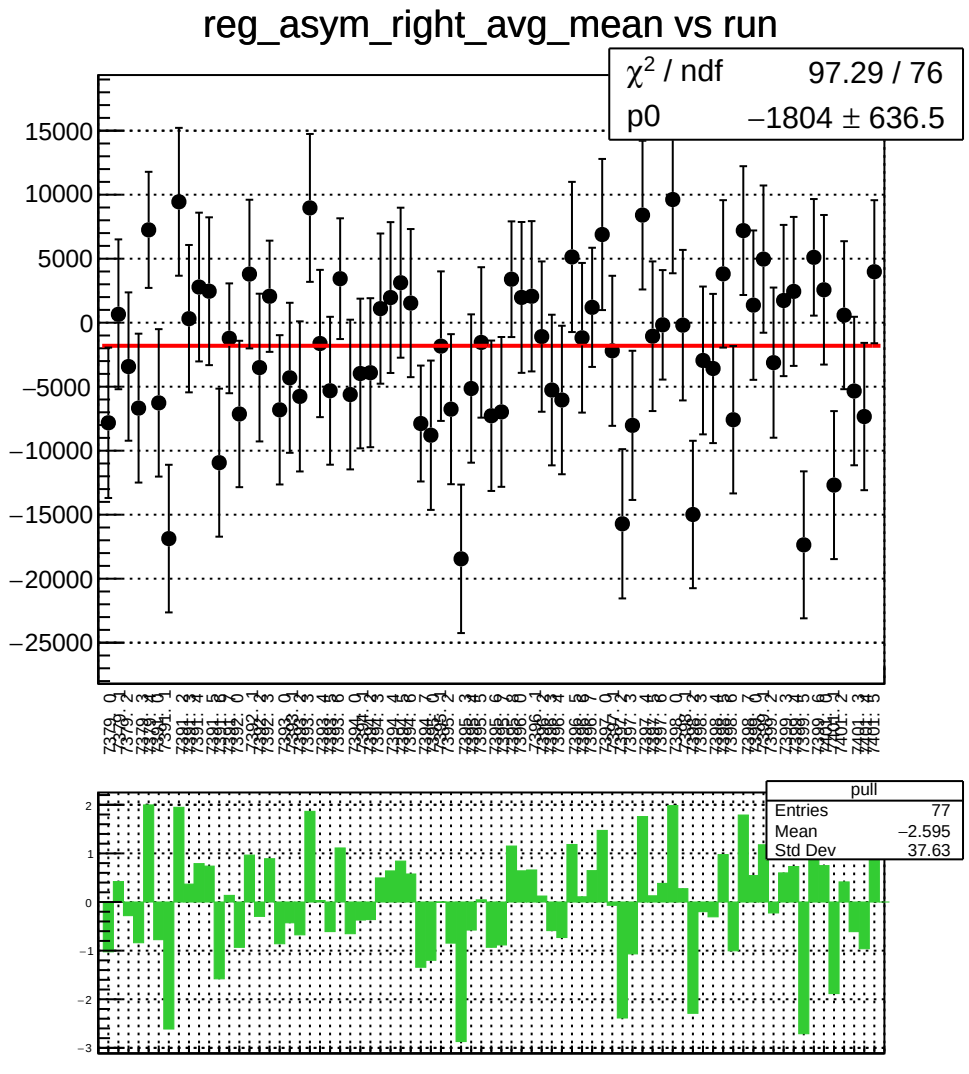

pull1D
Entries 77
Mean −0.02778
Std Dev 0.9968

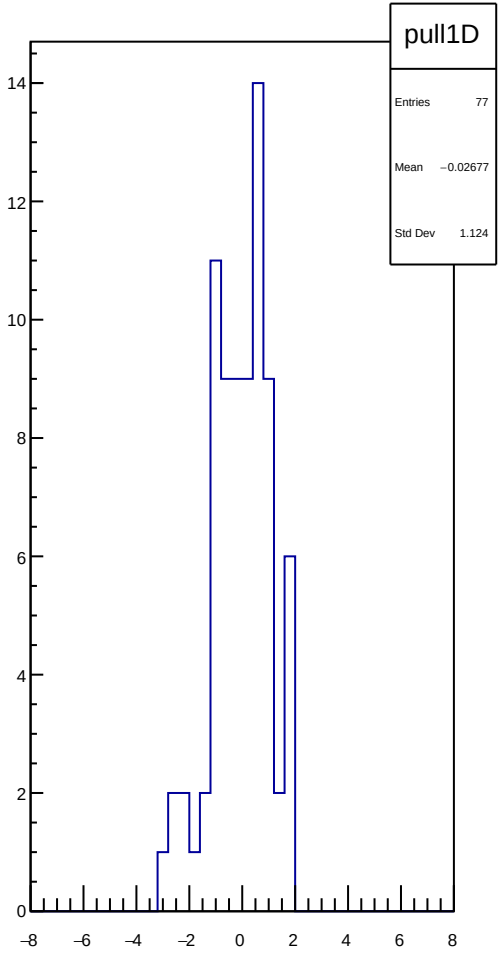

asym_left_dd_correction_rms vs run
χ² / ndf 7443 / 76
p0 577.4 ± 0.4718
750
700
650
600
550
500

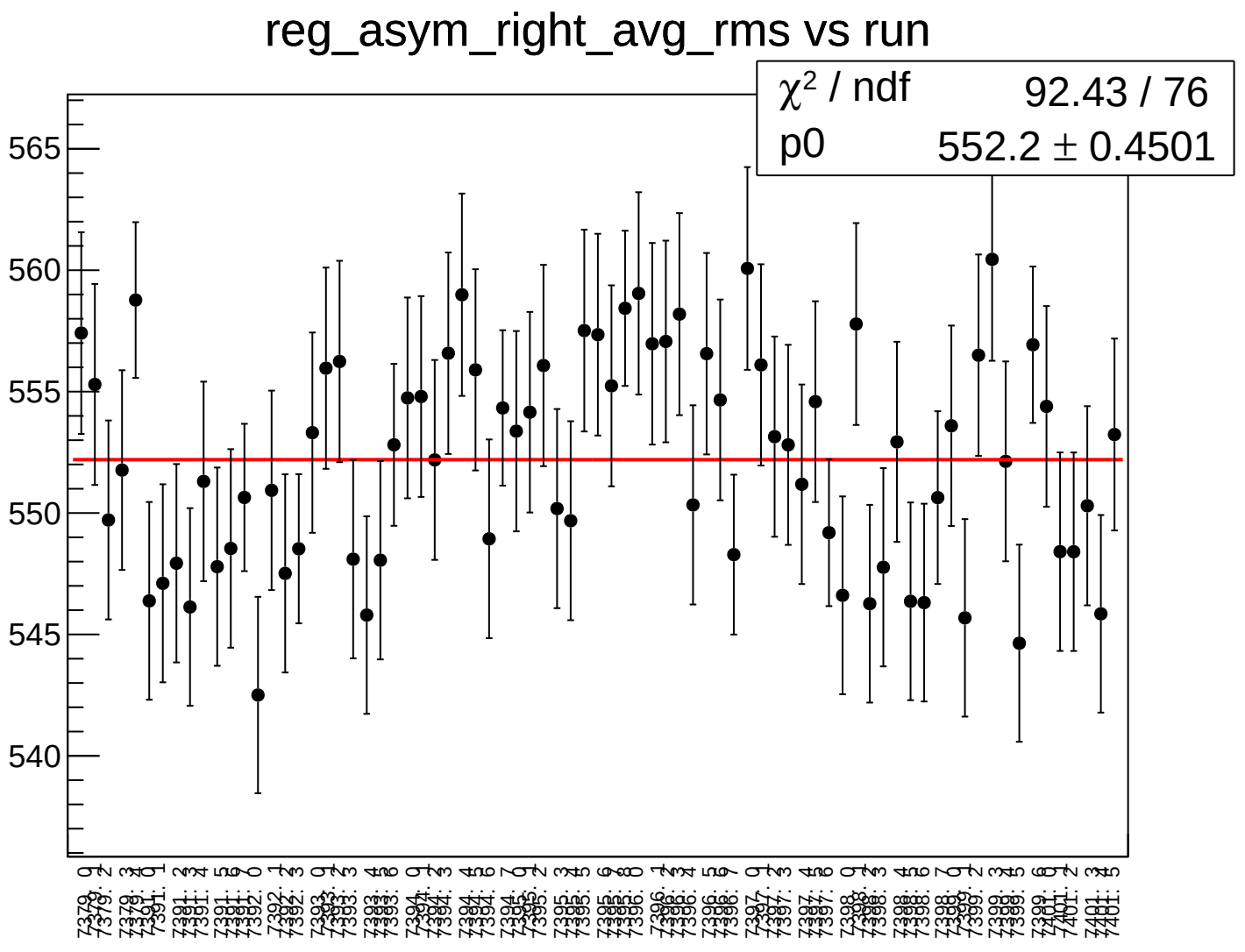

asym_left_dd_mean vs run
χ² / ndf 94.46 / 76
p0 −2603 ± 923.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 77
Mean 56.01
Std Dev 33.84
2
1
0
−1
−2

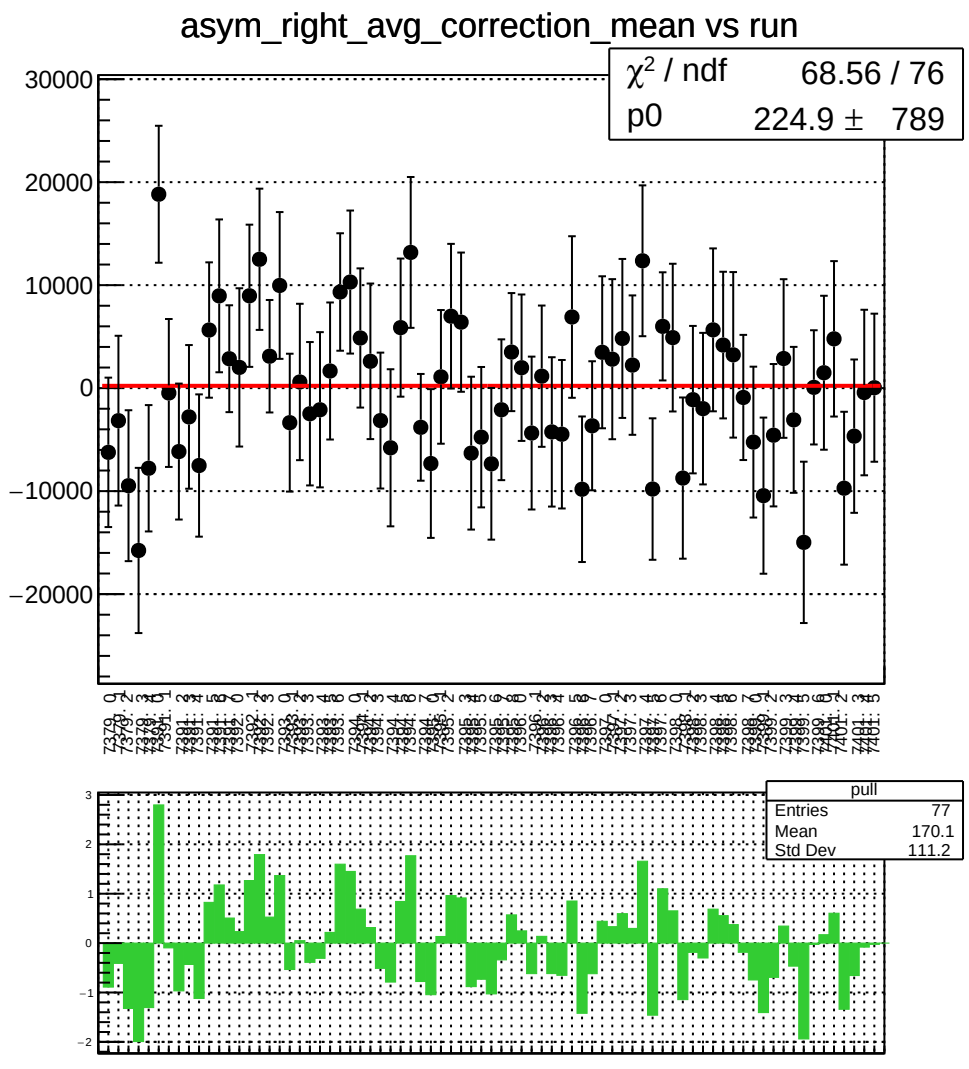

pull1D
Entries 77
Mean 0.02347
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

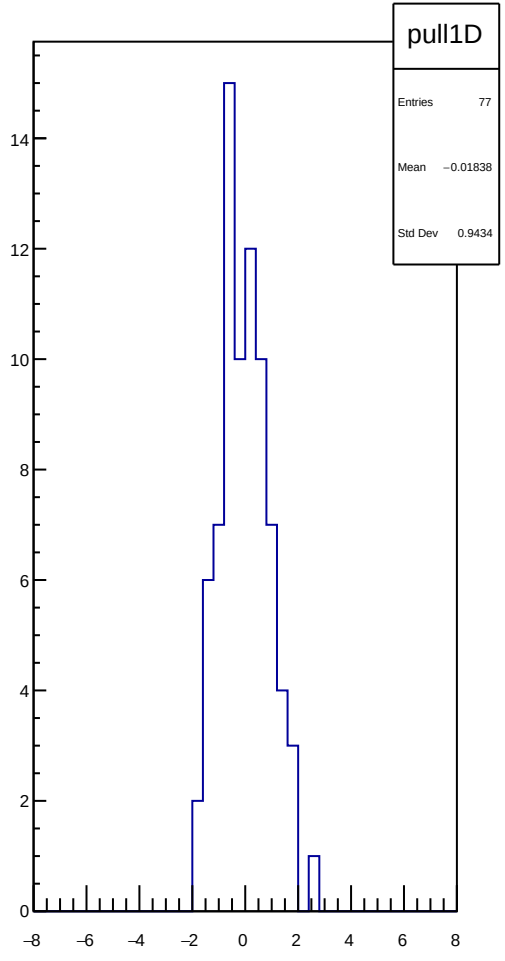

asym_left_dd_rms vs run
χ² / ndf 2625 / 76
p0 800.6 ± 0.6531
950
900
850
800
750

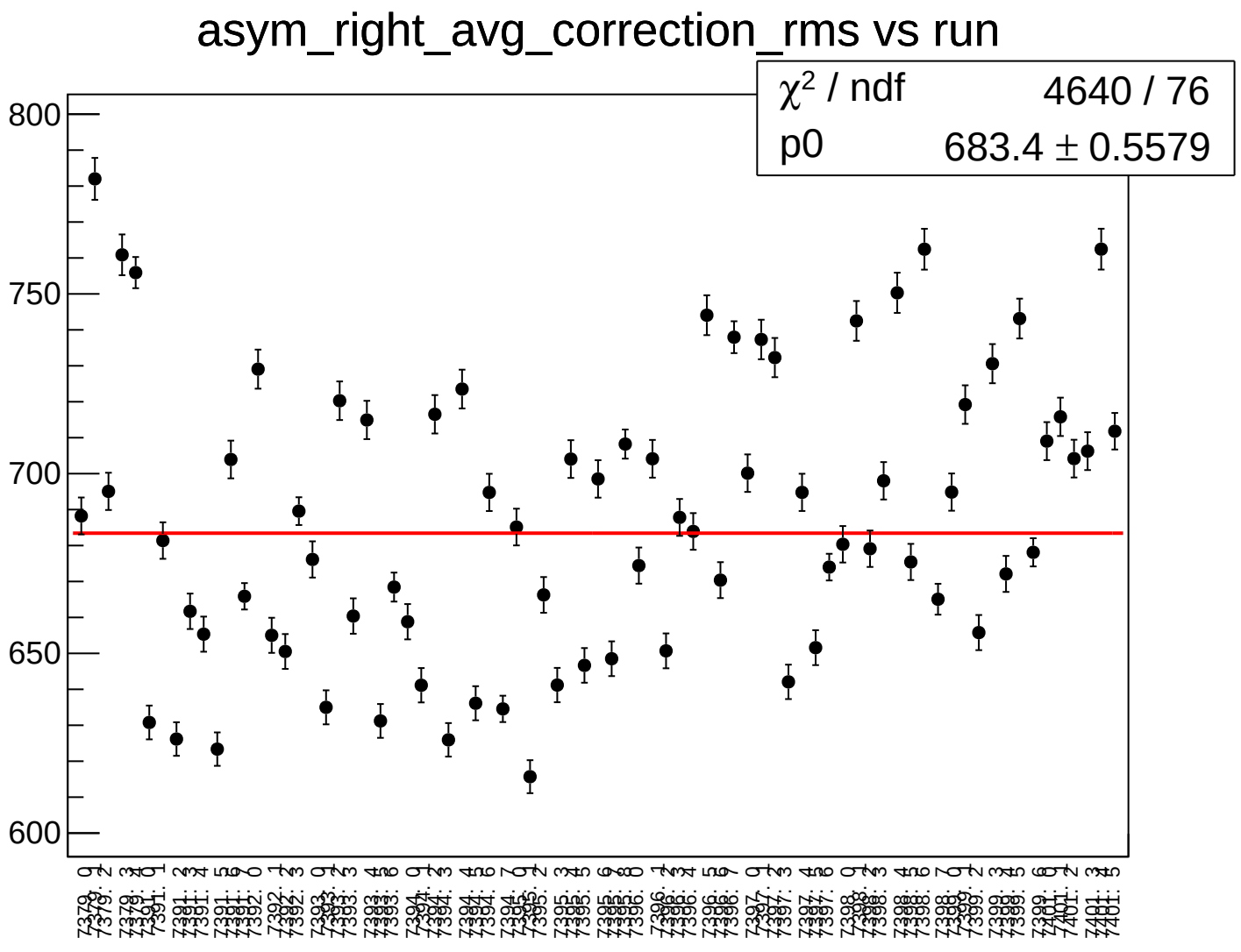

reg_asym_right_avg_mean vs run
χ² / ndf 97.29 / 76
p0 −1804 ± 636.5
pull
Entries 77
Mean −2.595
Std Dev 37.63

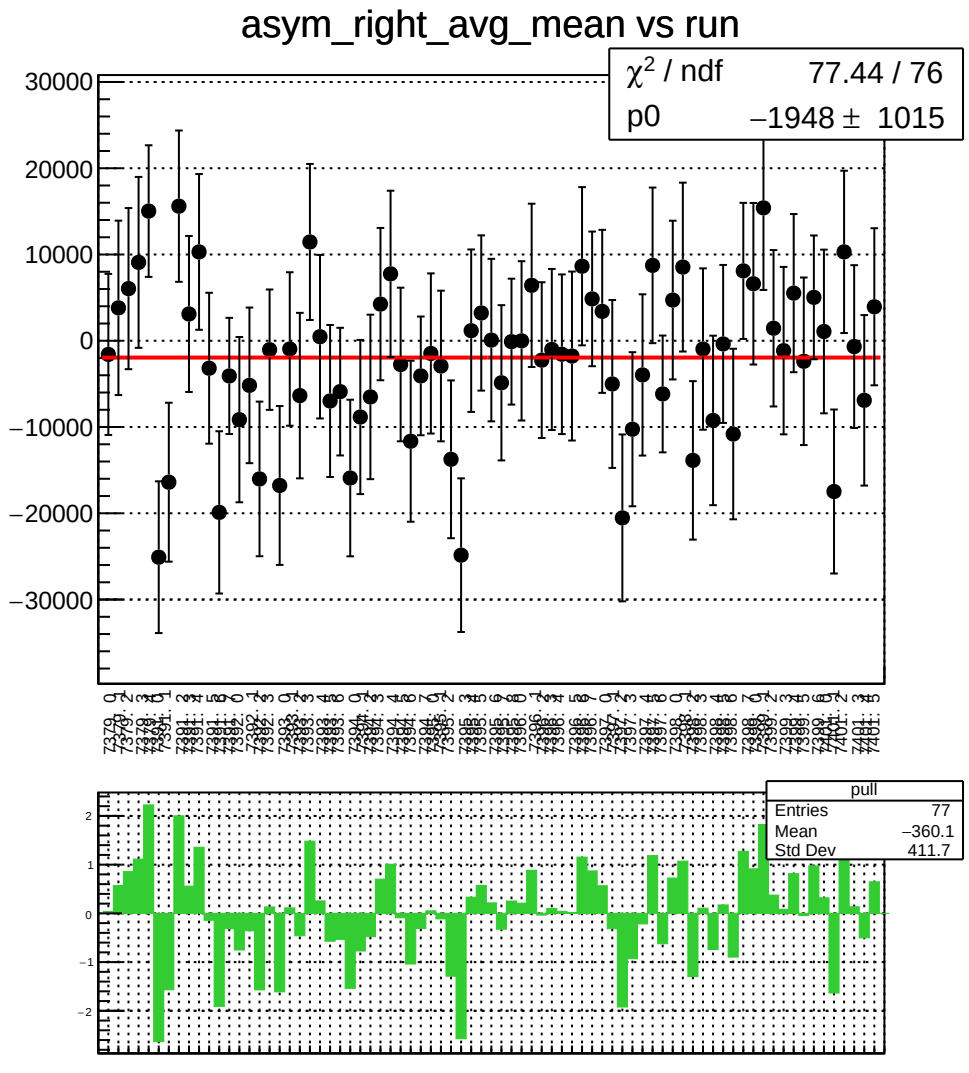

pull1D
Entries 77
Mean −0.02677
Std Dev 1.124

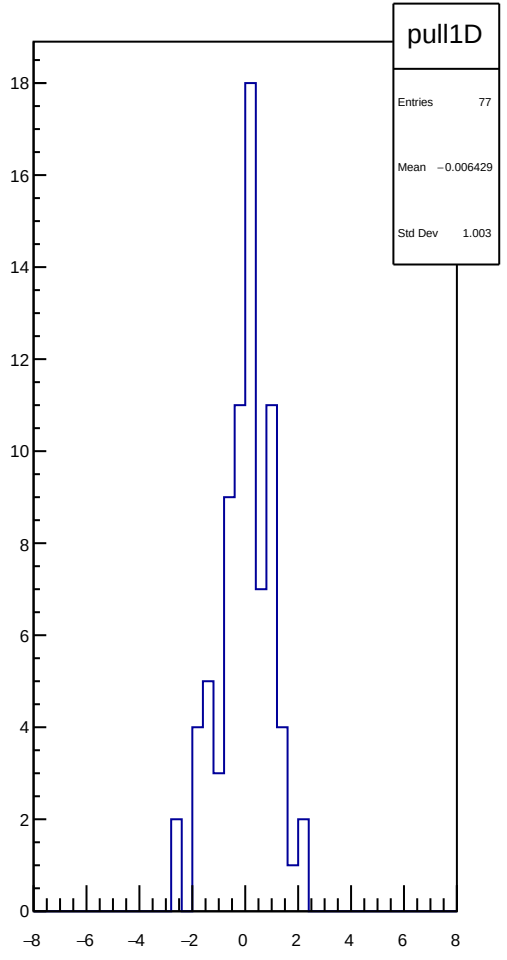

reg_asym_right_avg_rms vs run
χ² / ndf 92.43 / 76
p0 552.2 ± 0.4501
565
560
555
550
545
540

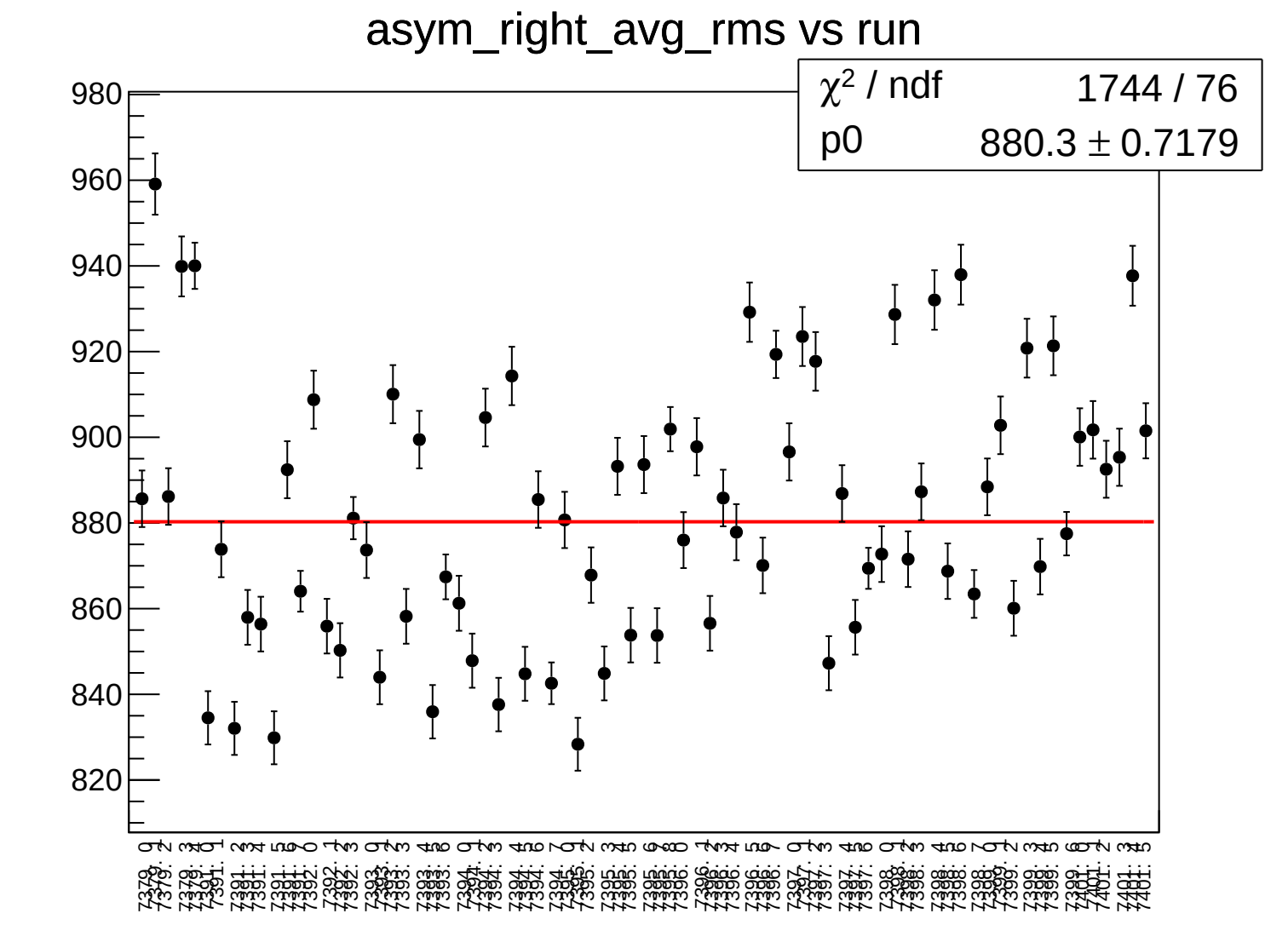

asym_right_avg_correction_mean vs run
χ² / ndf 68.56 / 76
p0 224.9 ± 789
pull
Entries 77
Mean 170.1
Std Dev 111.2

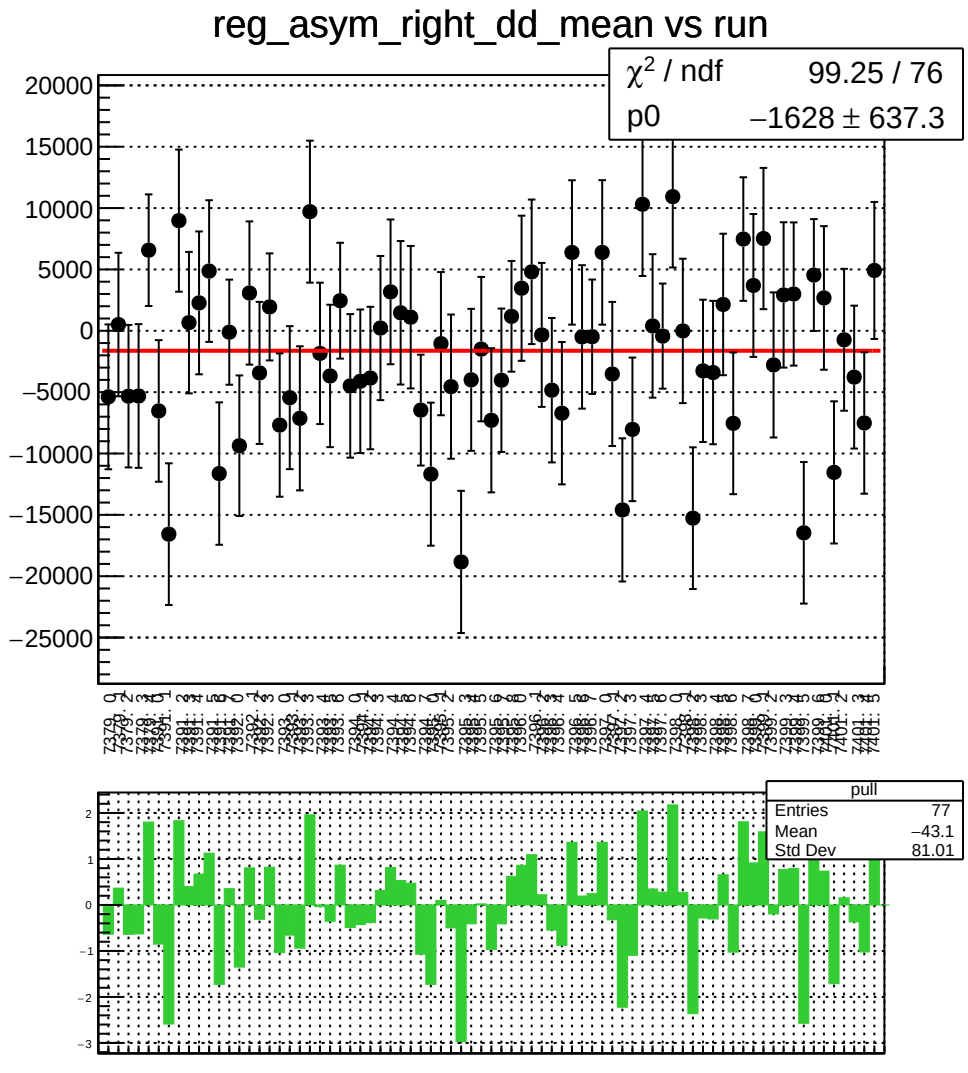

pull1D
Entries 77
Mean −0.01838
Std Dev 0.9434

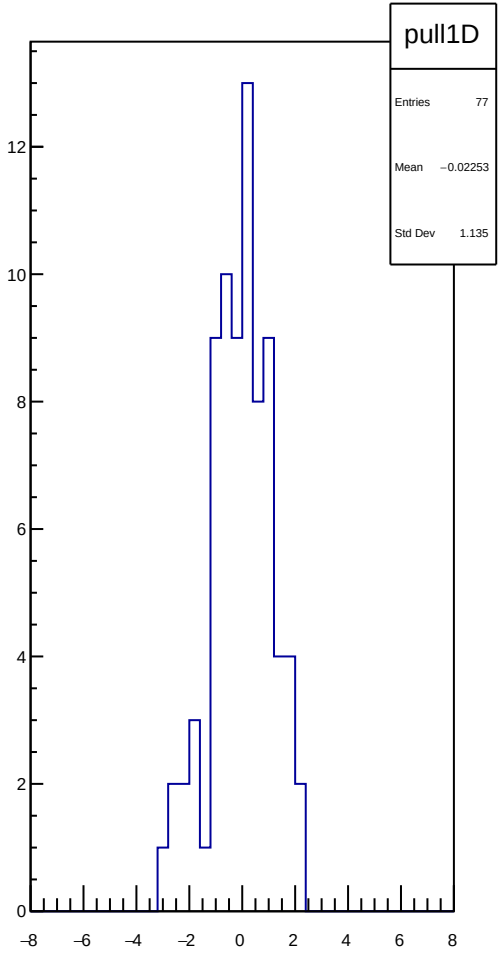

asym_right_avg_correction_rms vs run
χ² / ndf 4640 / 76
p0 683.4 ± 0.5579
800
750
700
650
600

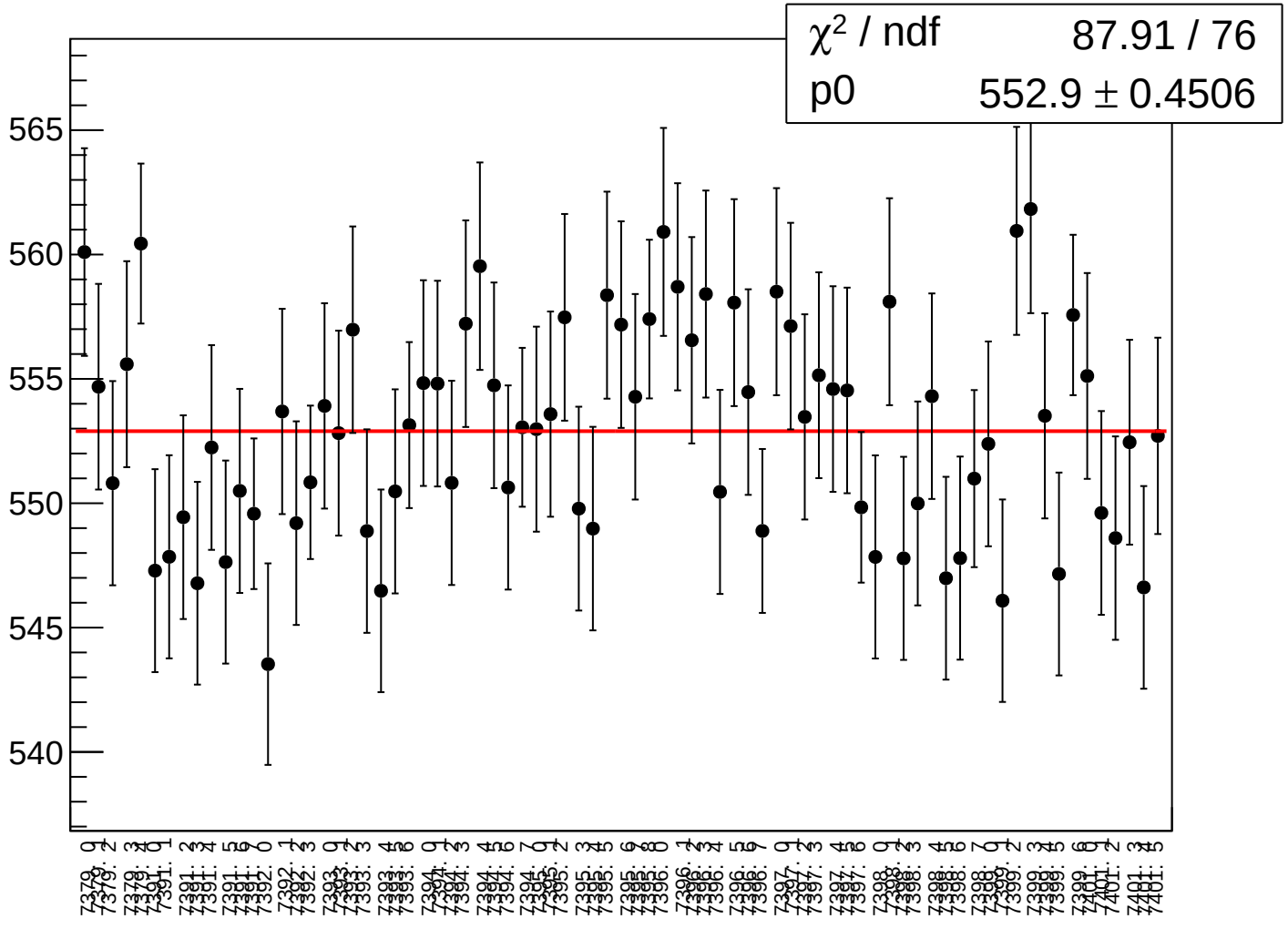

asym_right_avg_mean vs run
χ² / ndf 77.44 / 76
p0 −1948 ± 1015
pull
Entries 77
Mean −360.1
Std Dev 411.7

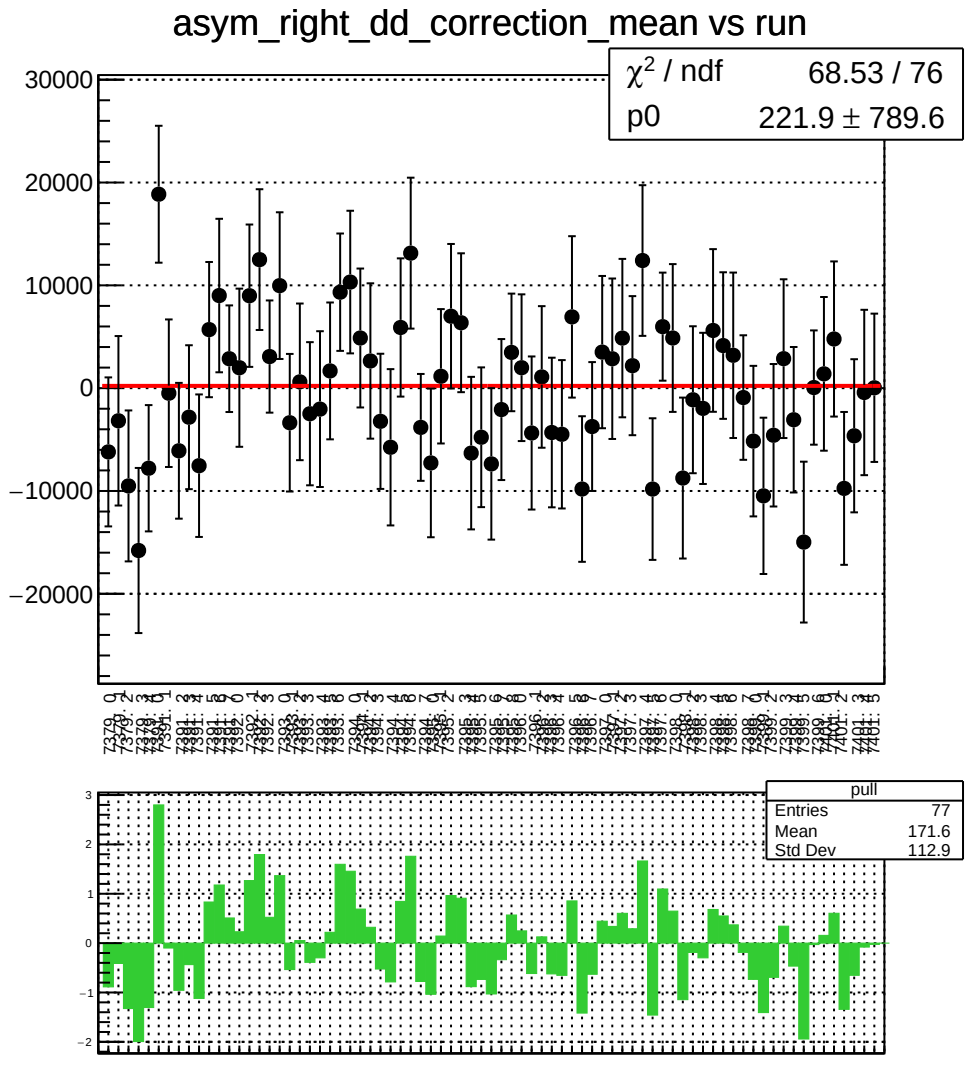

pull1D
Entries 77
Mean −0.006429
Std Dev 1.003

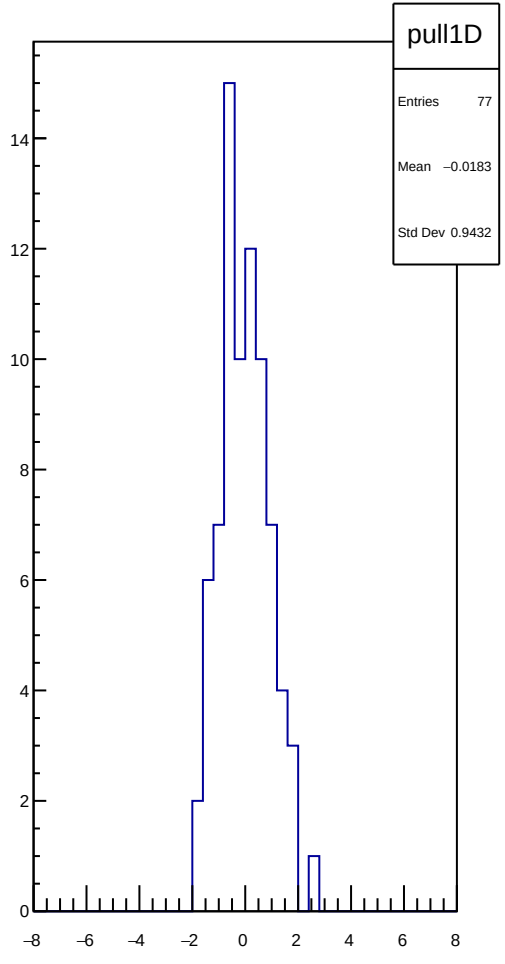

asym_right_avg_rms vs run
χ^2 / ndf 1744 / 76
p0 880.3 ± 0.7179
980
960
940
920
900
880
860
840
820

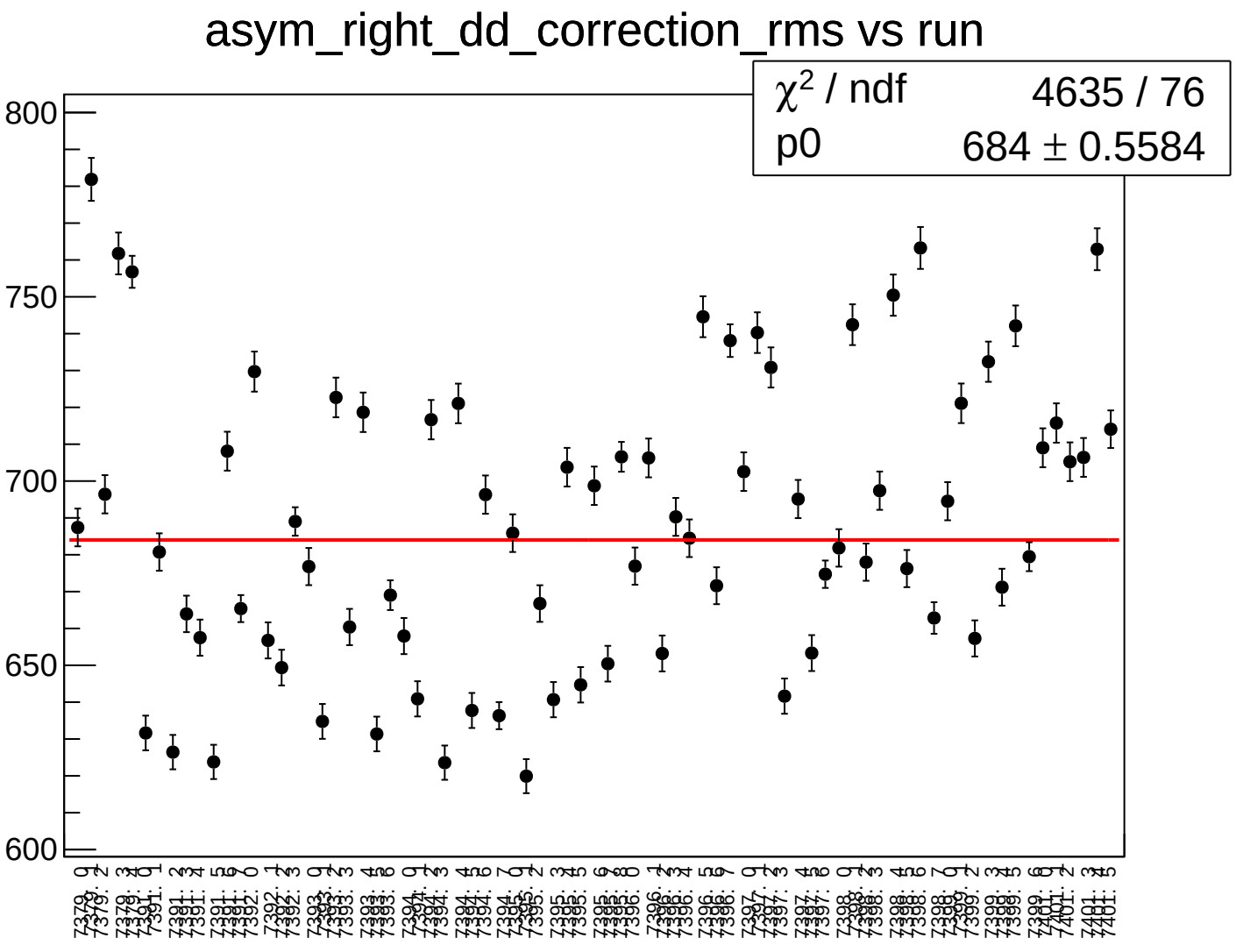

reg_asym_right_dd_mean vs run
χ² / ndf 99.25 / 76
p0 −1628 ± 637.3
pull
Entries 77
Mean −43.1
Std Dev 81.01

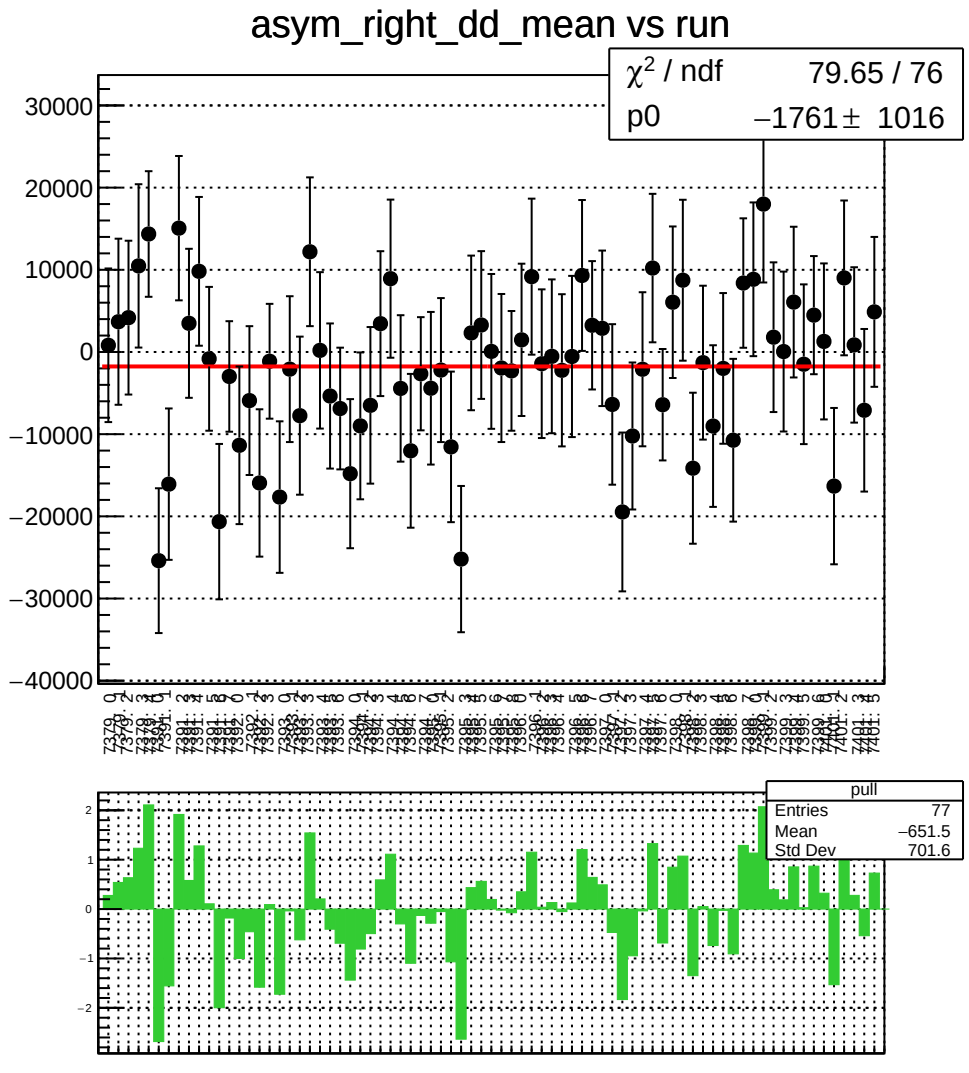

pull1D
Entries 77
Mean −0.02253
Std Dev 1.135

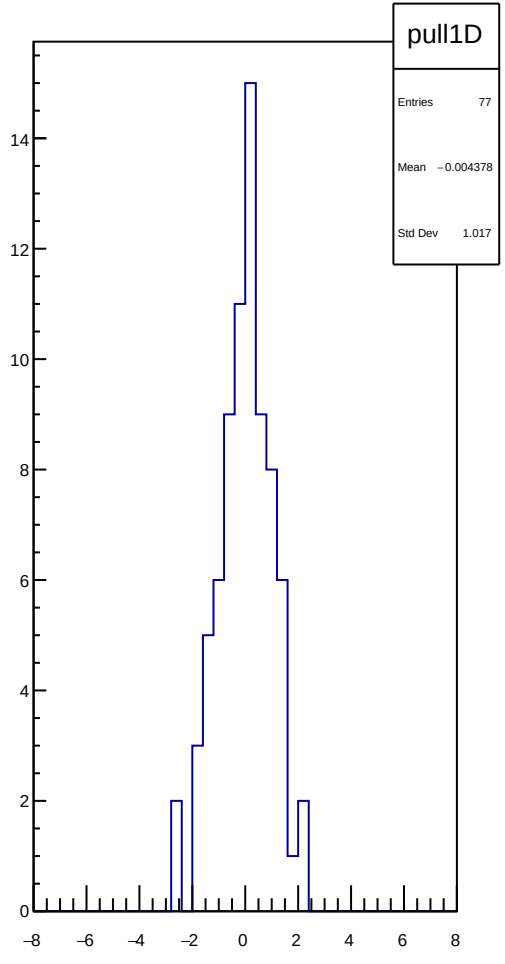

reg_asym_right_dd_rms vs run
χ² / ndf 87.91 / 76
p0 552.9 ± 0.4506
565
560
555
550
545
540

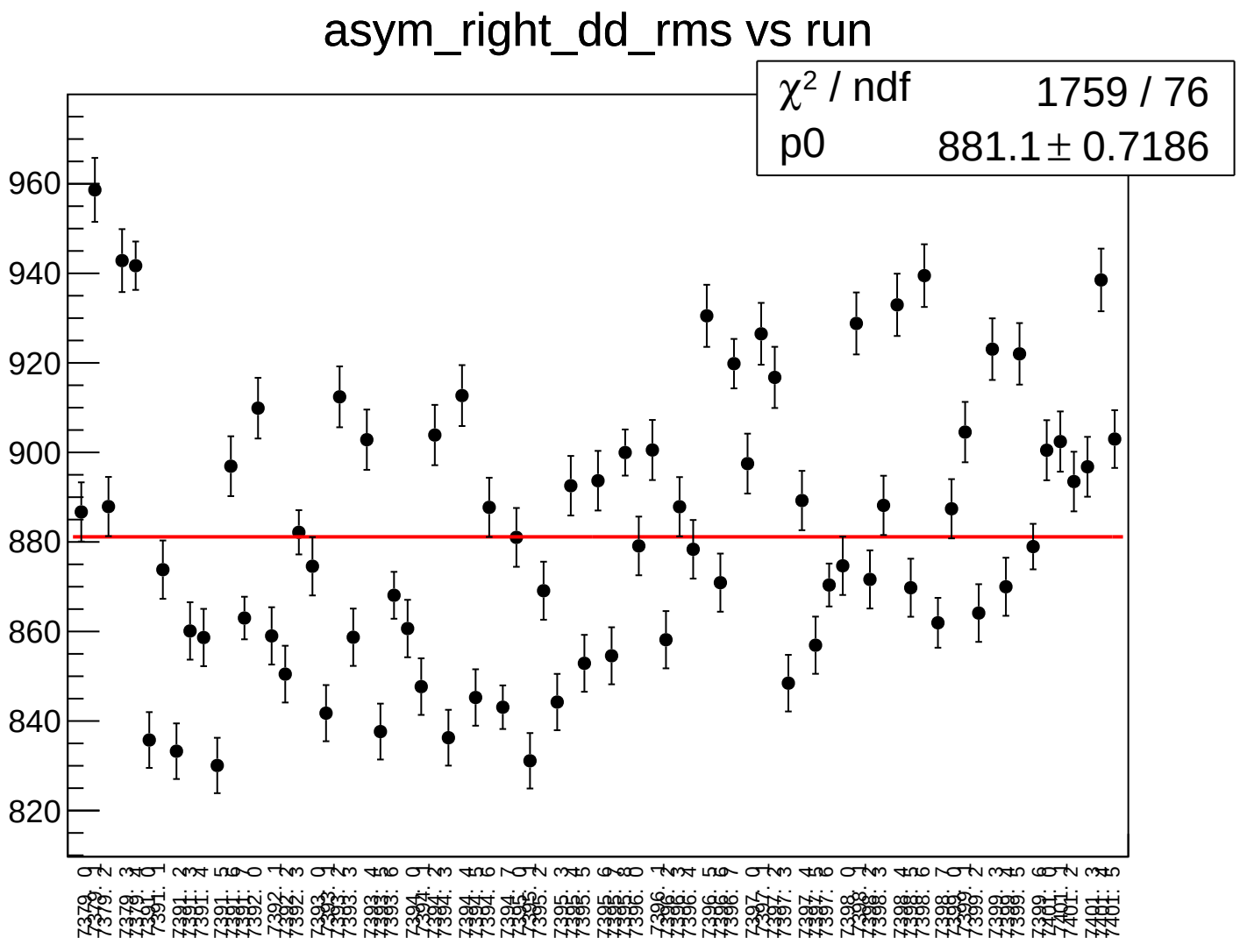

asym_right_dd_correction_mean vs run
χ² / ndf 68.53 / 76
p0 221.9 ± 789.6
30000
20000
10000
0
−10000
−20000
pull
Entries 77
Mean 171.6
Std Dev 112.9
3
2
1
0
−1
−2

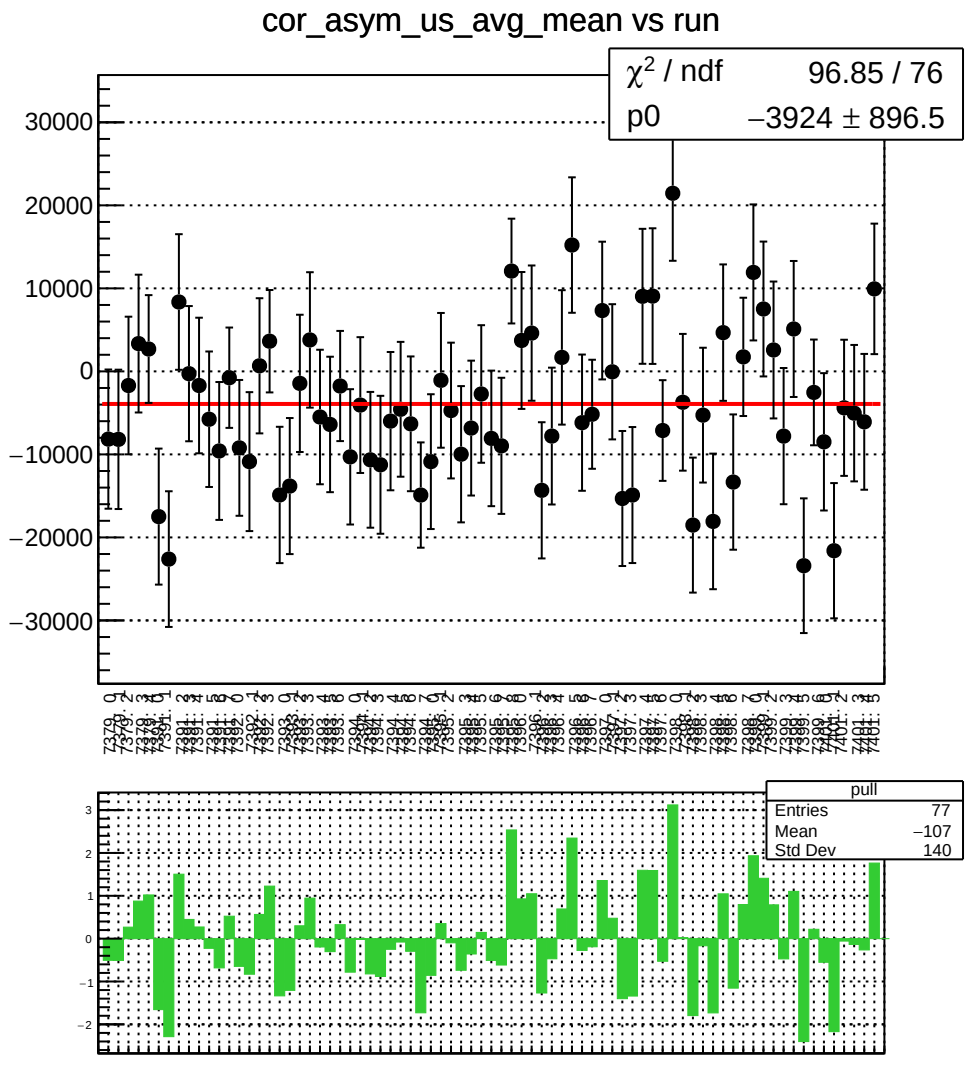

pull1D
Entries 77
Mean −0.0183
Std Dev 0.9432
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

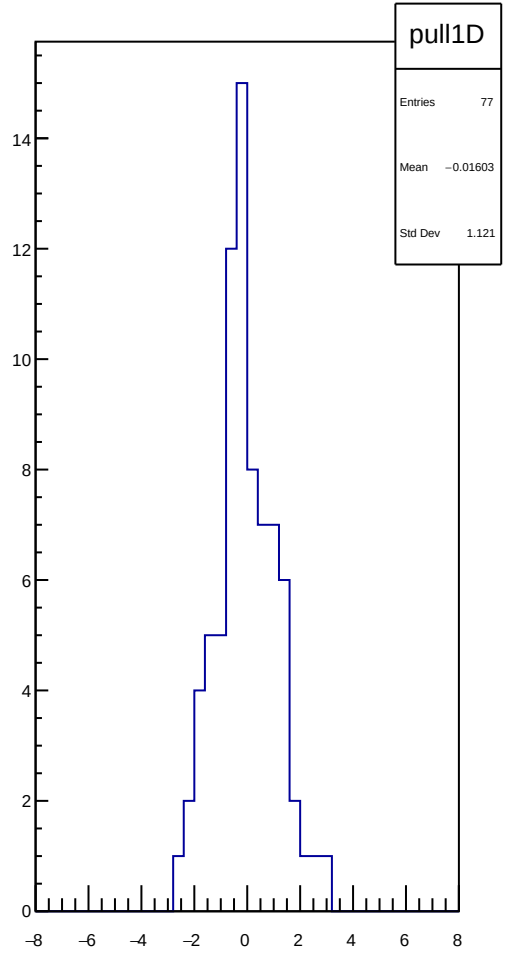

asym_right_dd_correction_rms vs run
χ² / ndf 4635 / 76
p0 684 ± 0.5584
800
750
700
650
600

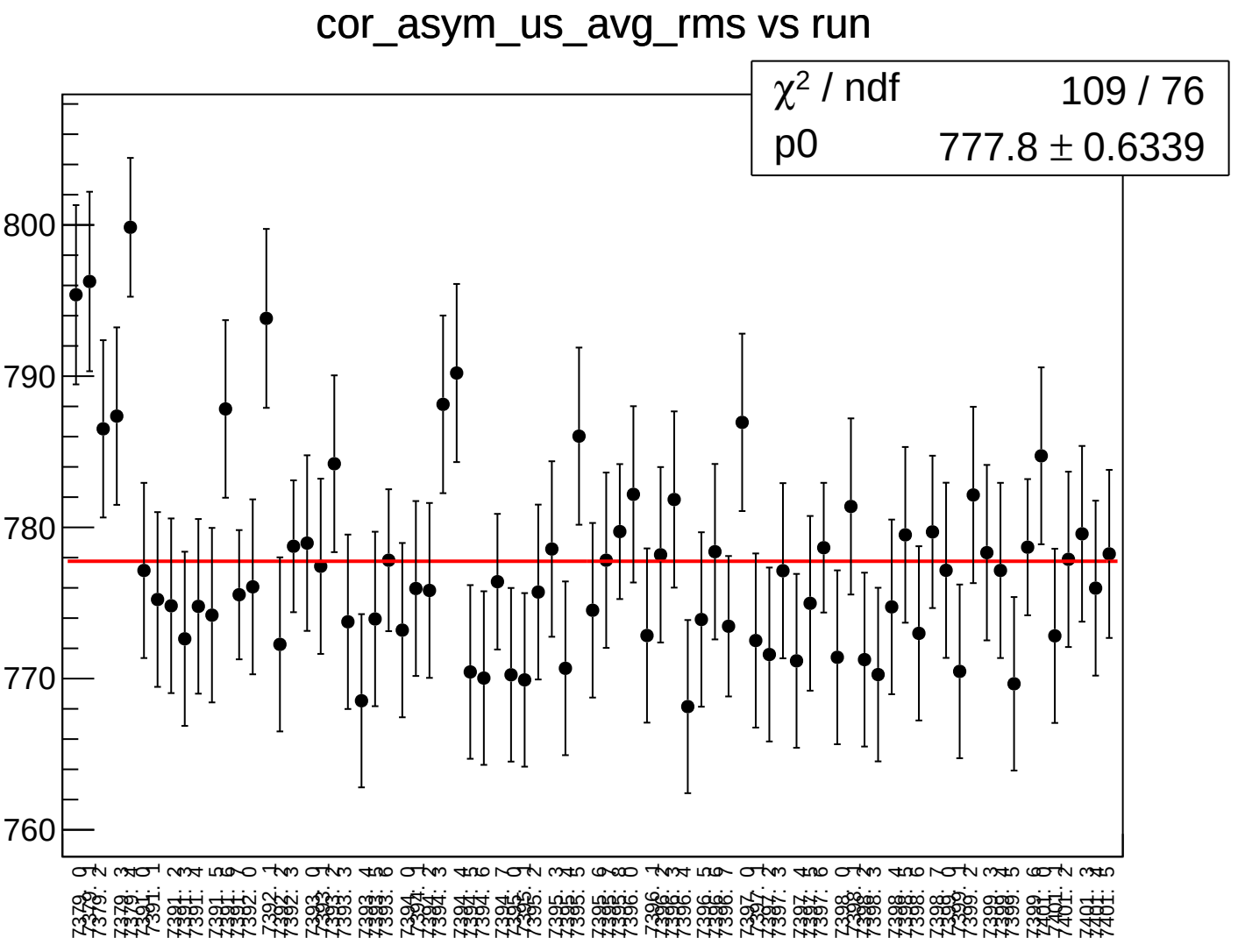

asym_right_dd_mean vs run
χ² / ndf 79.65 / 76
p0 −1761 ± 1016
pull
Entries 77
Mean −651.5
Std Dev 701.6

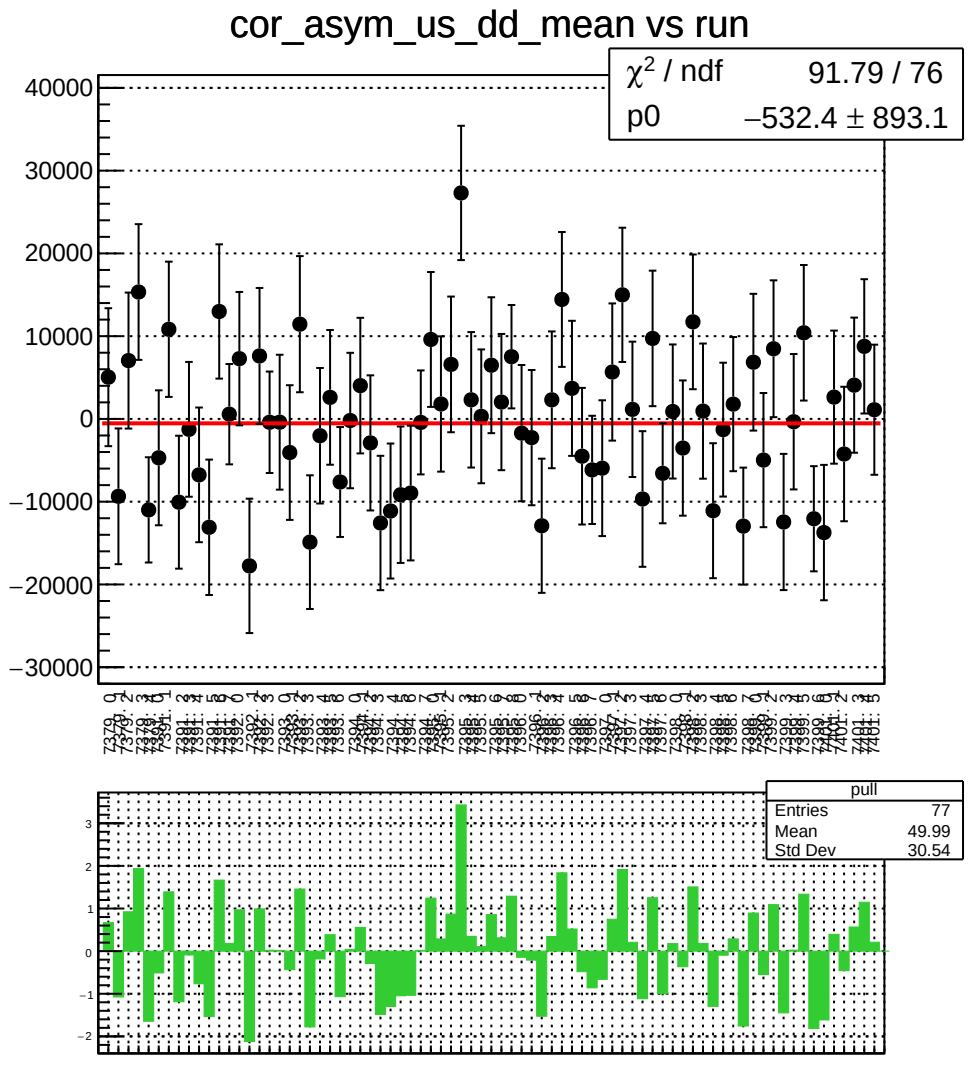

pull1D
Entries 77
Mean −0.004378
Std Dev 1.017

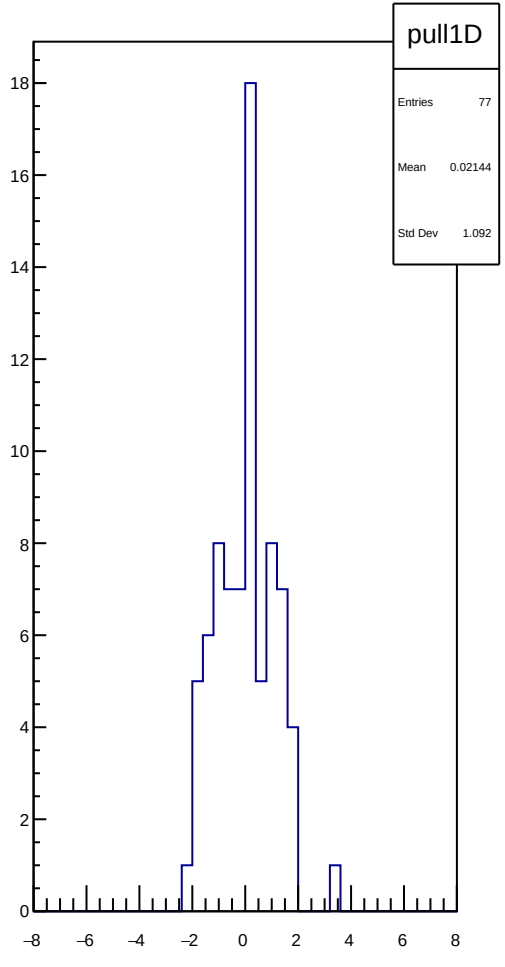

asym_right_dd_rms vs run
χ^2 / ndf 1759 / 76
p0 881.1 ± 0.7186
960
940
920
900
880
860
840
820

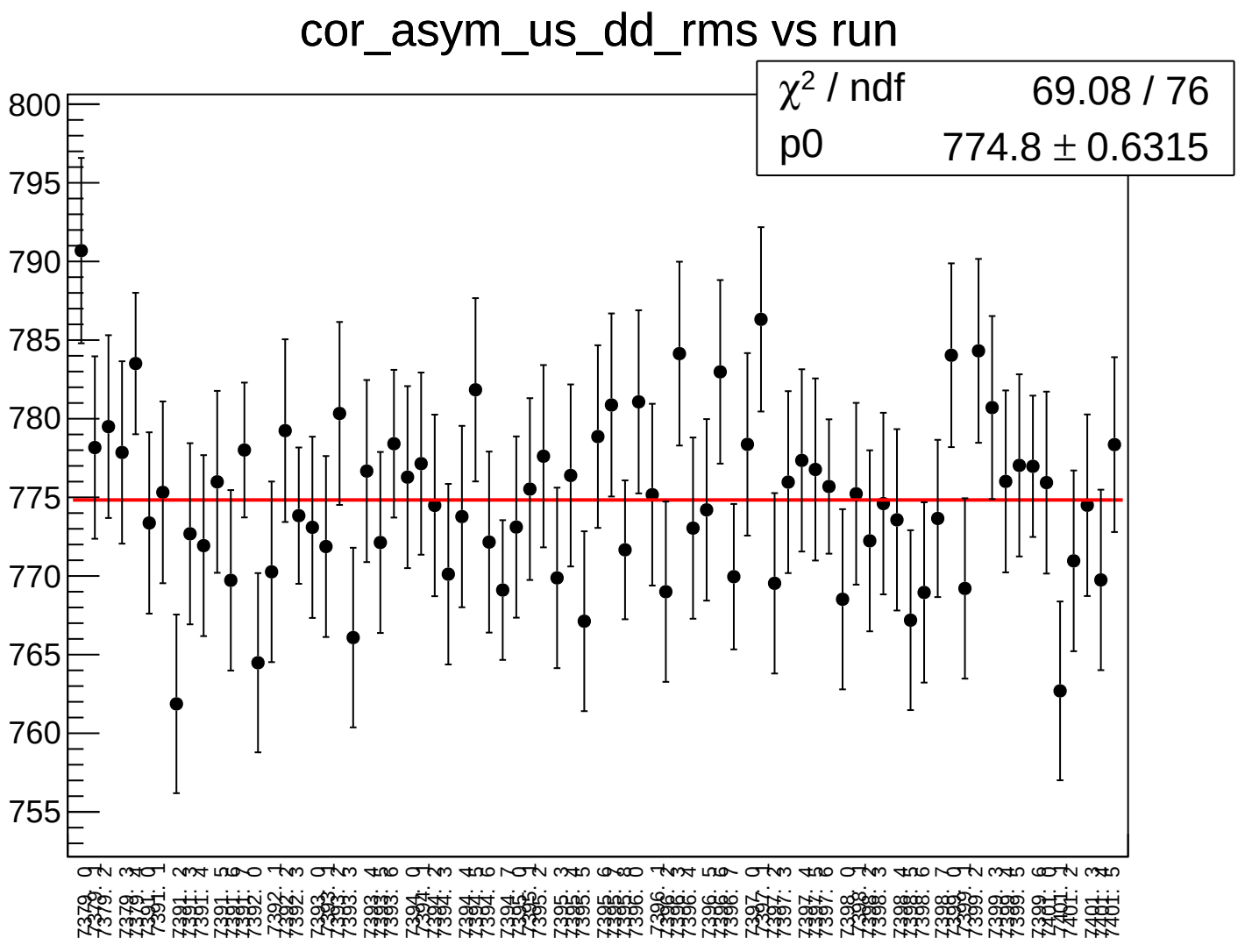

cor_asym_us_avg_mean vs run
χ² / ndf 96.85 / 76
p0 −3924 ± 896.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 77
Mean −107
Std Dev 140
3
2
1
0
−1
−2

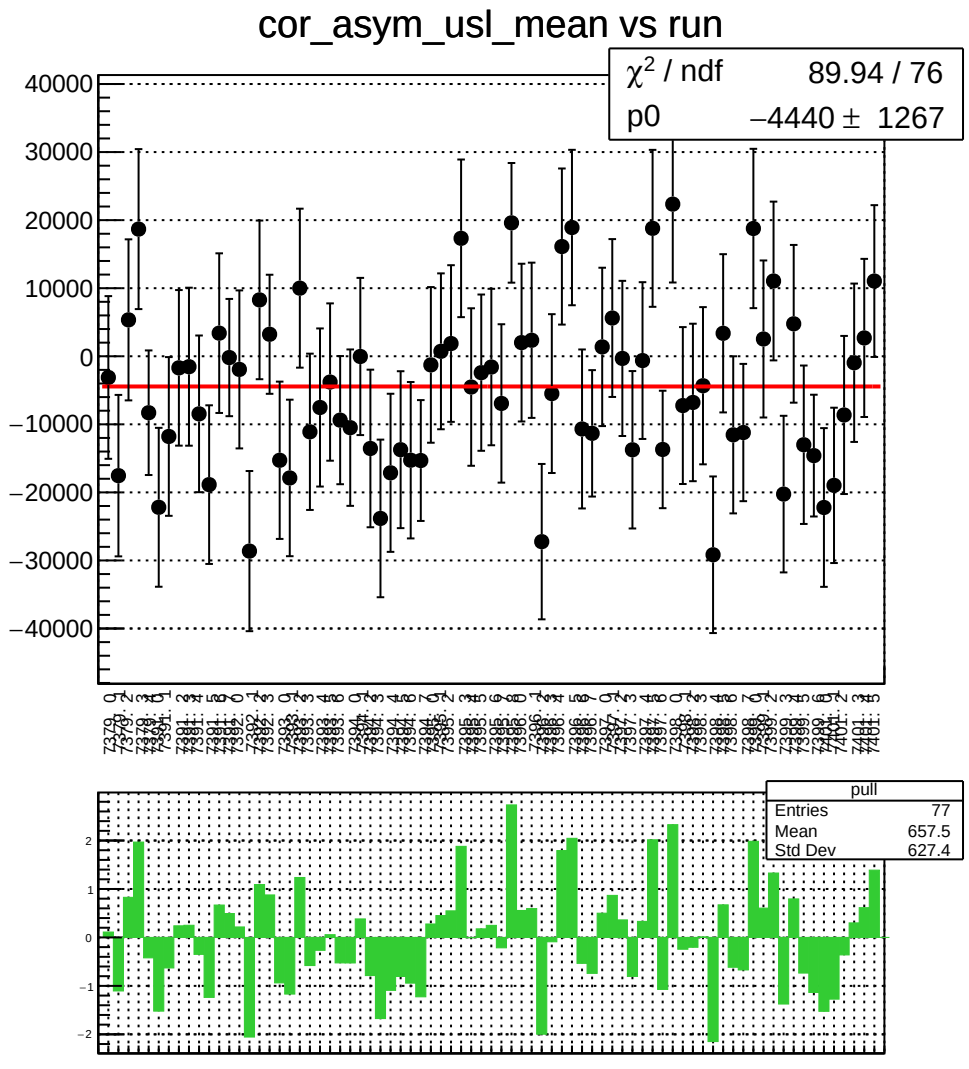

pull1D
Entries 77
Mean −0.01603
Std Dev 1.121
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

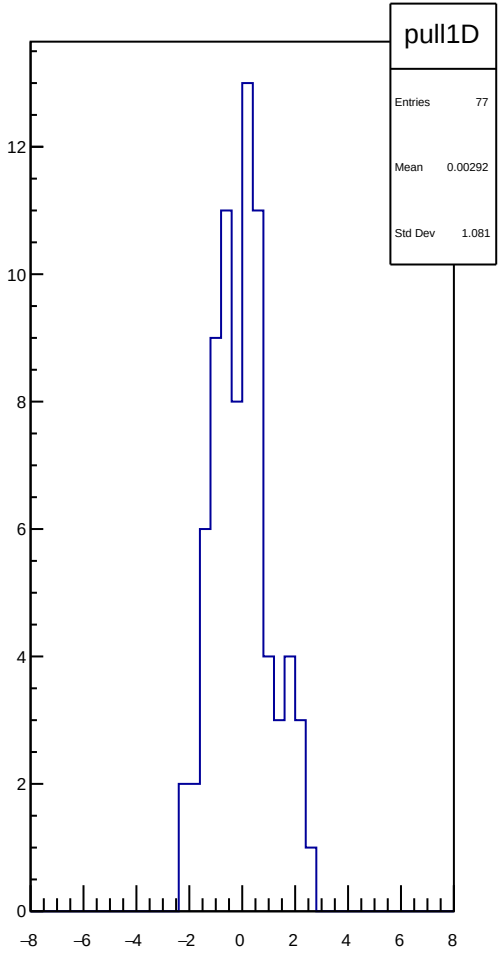

cor_asym_us_avg_rms vs run
χ² / ndf 109 / 76
p0 777.8 ± 0.6339
800
790
780
770
760

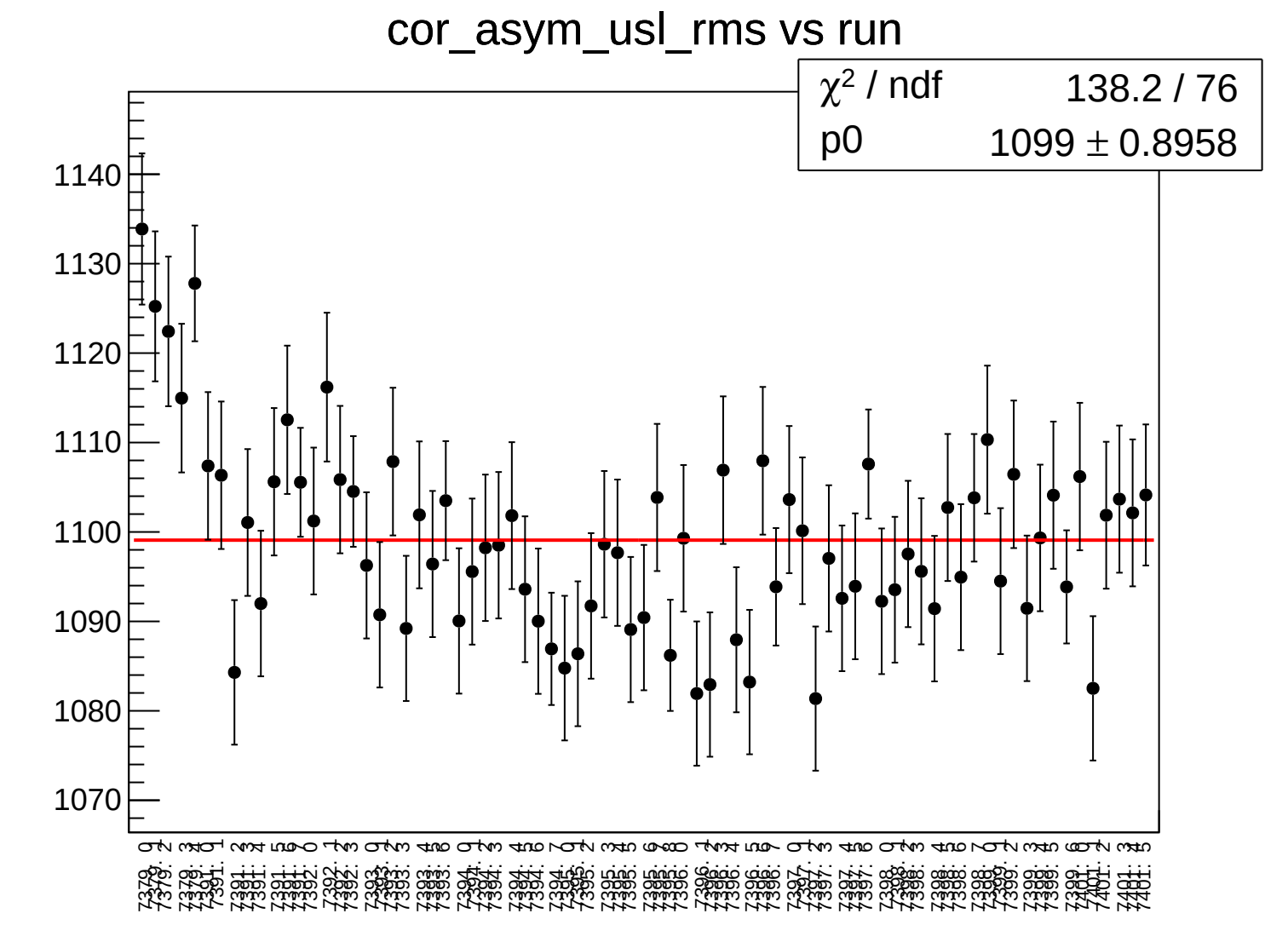

cor_asym_us_dd_mean vs run
χ² / ndf 91.79 / 76
p0 −532.4 ± 893.1
pull
Entries 77
Mean 49.99
Std Dev 30.54

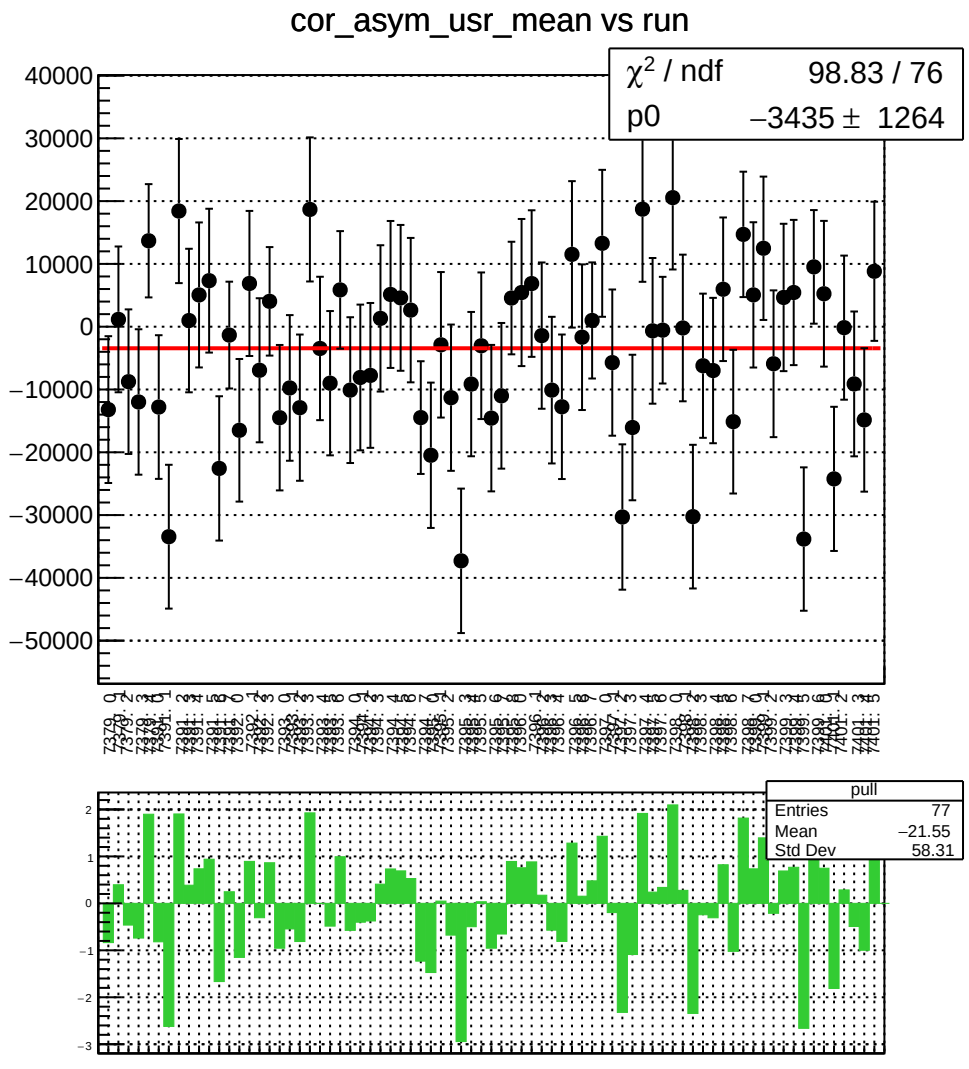

pull1D
Entries 77
Mean 0.02144
Std Dev 1.092

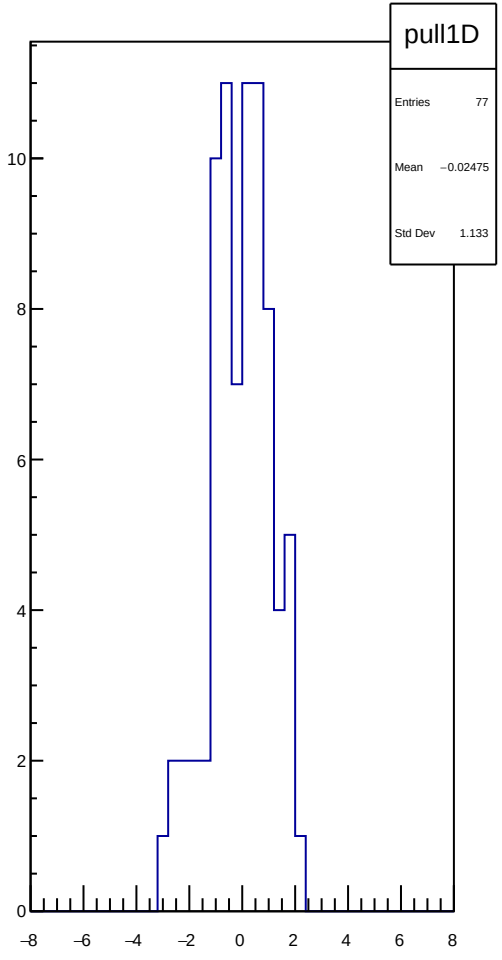

cor_asym_us_dd_rms vs run
χ^2 / ndf 69.08 / 76
p0 774.8 ± 0.6315
800
795
790
785
780
775
770
765
760
755

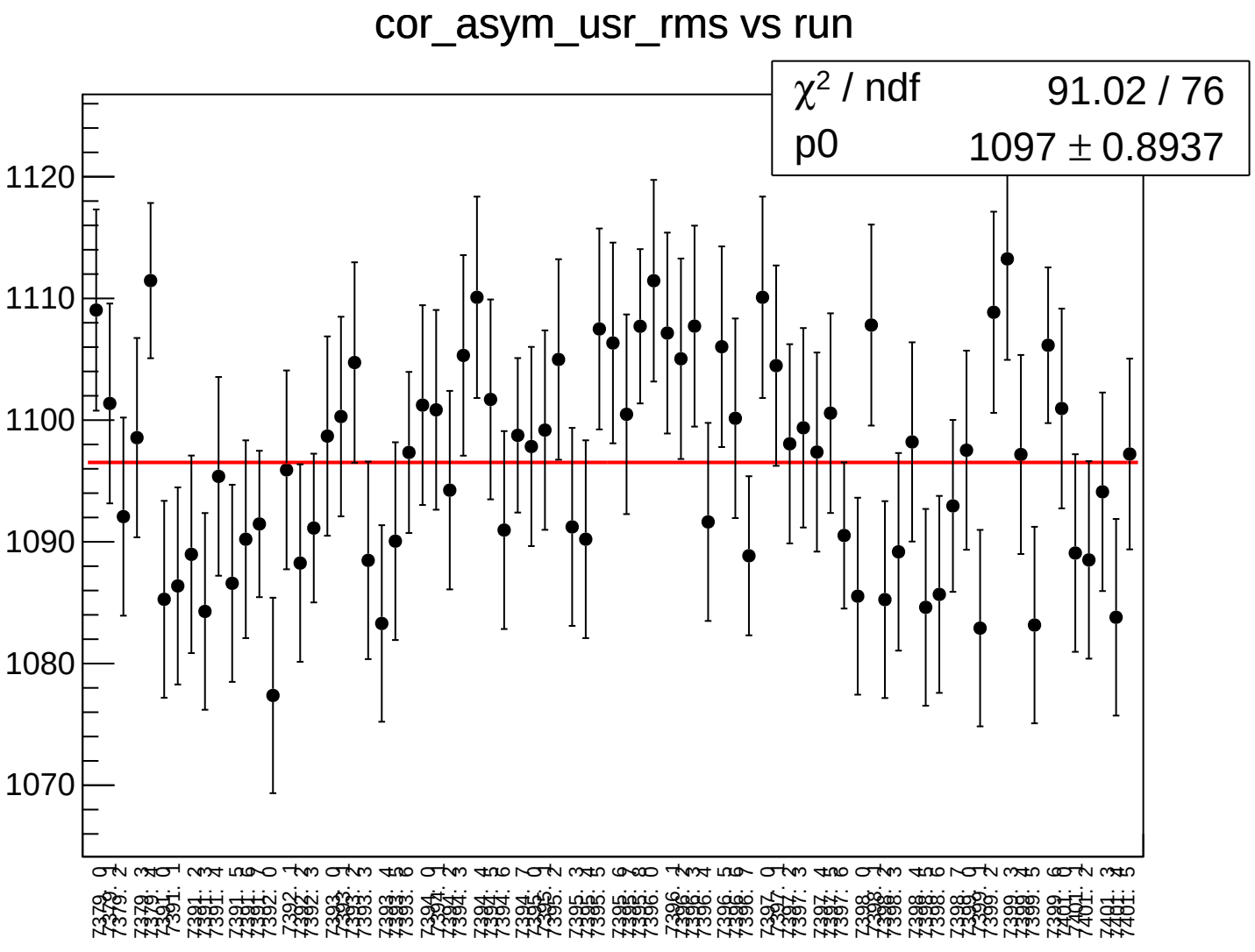

cor_asym_usl_mean vs run
χ² / ndf 89.94 / 76
p0 −4440 ± 1267
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 77
Mean 657.5
Std Dev 627.4
2
1
0
−1
−2

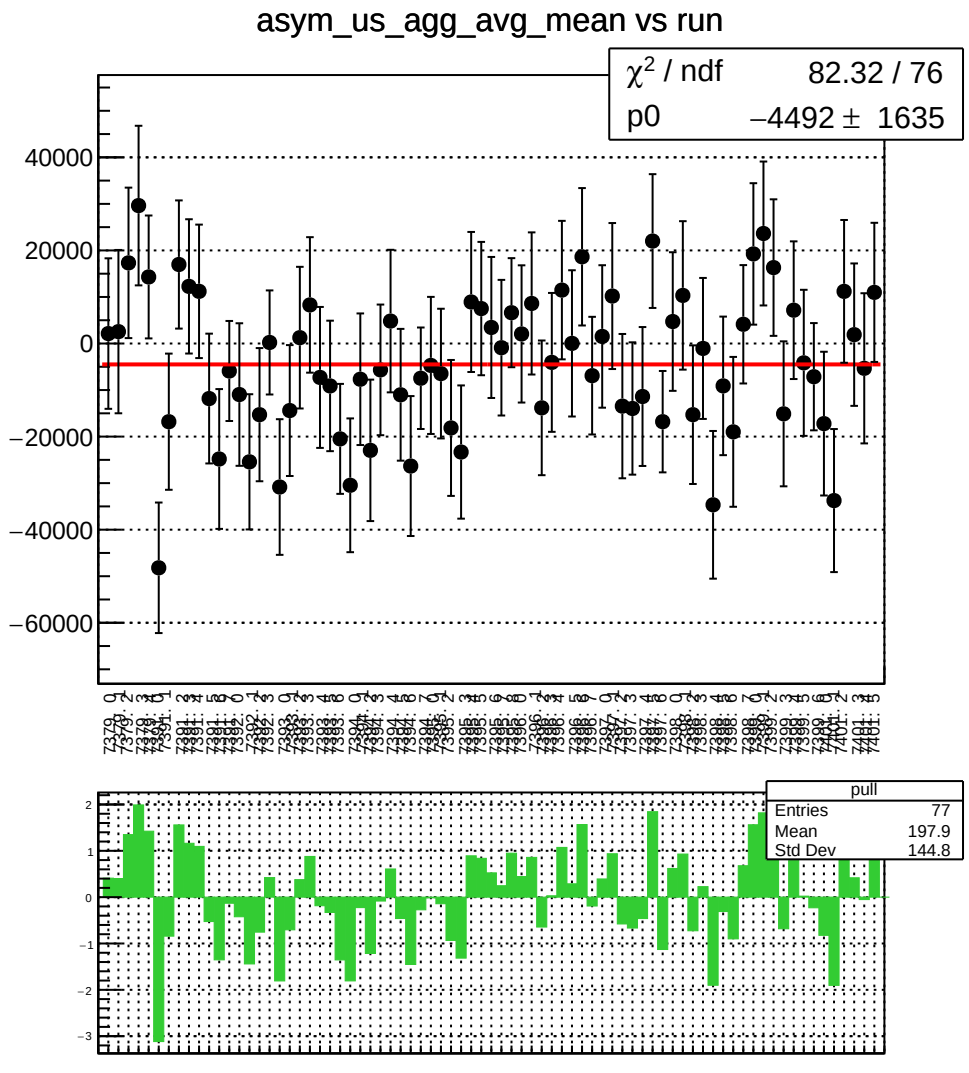

pull1D
Entries 77
Mean 0.00292
Std Dev 1.081
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

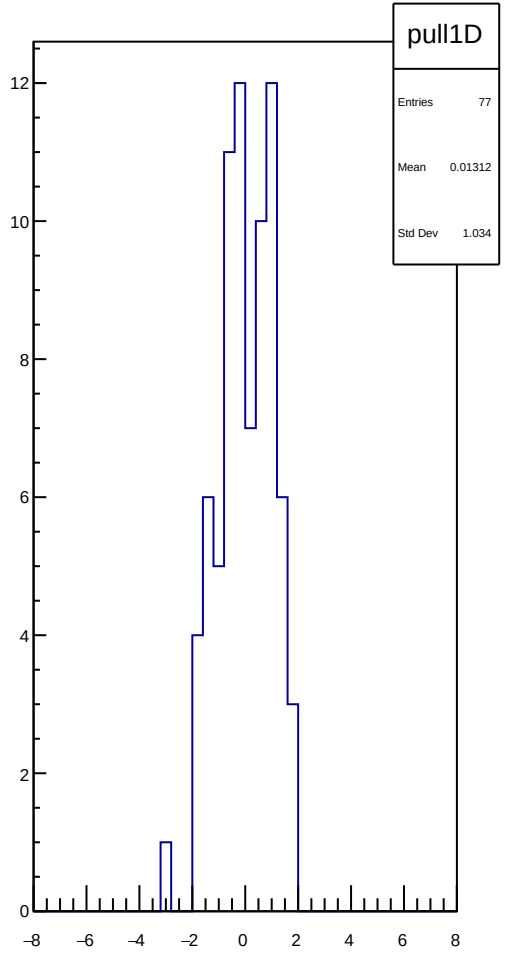

cor_asym_usl_rms vs run
χ² / ndf 138.2 / 76
p0 1099 ± 0.8958
1140
1130
1120
1110
1100
1090
1080
1070

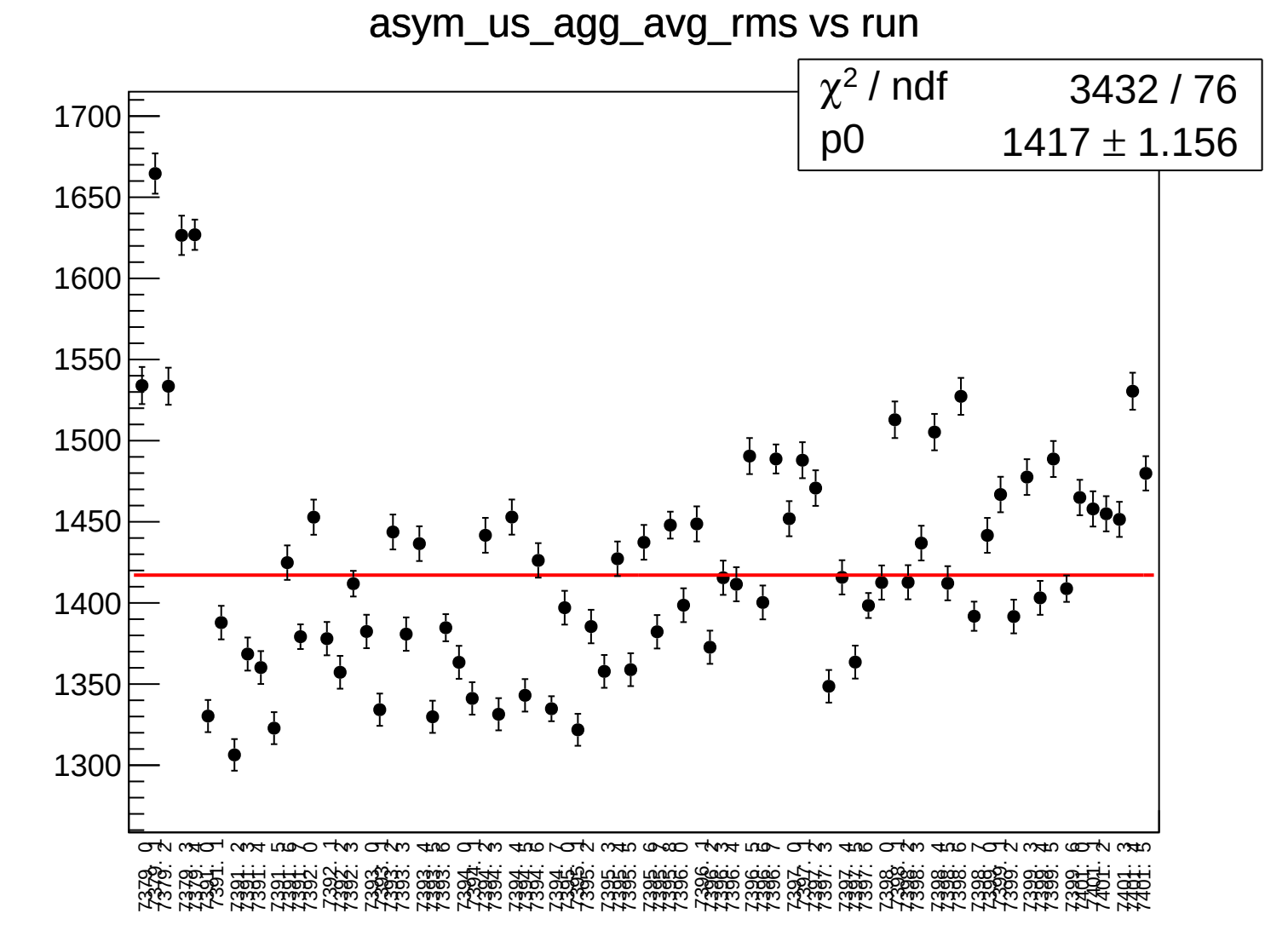

cor_asym_usr_mean vs run
χ² / ndf 98.83 / 76
p0 −3435 ± 1264
pull
Entries 77
Mean −21.55
Std Dev 58.31

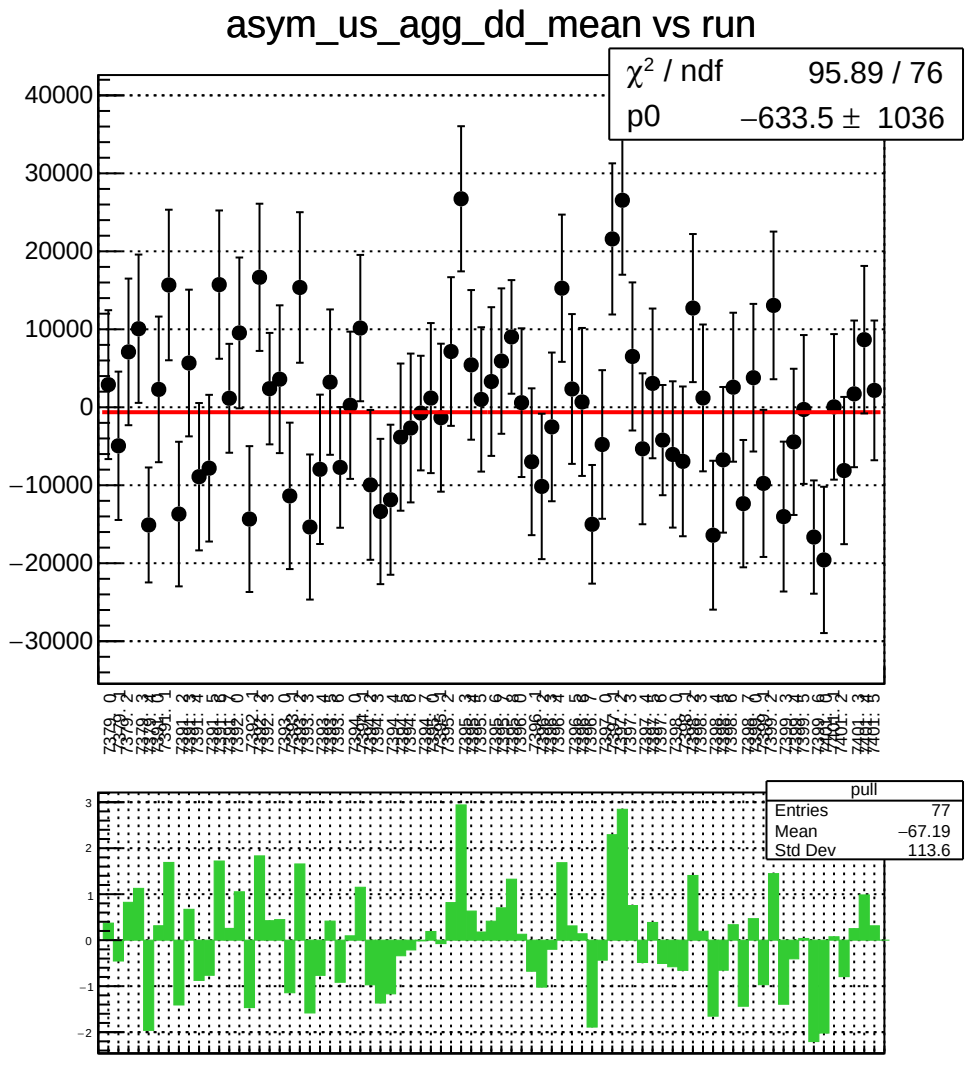

pull1D
Entries 77
Mean −0.02475
Std Dev 1.133

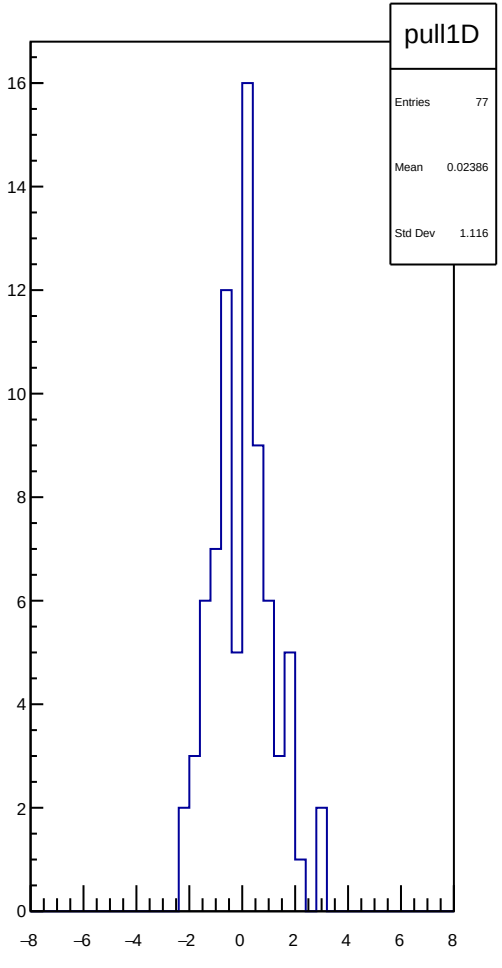

cor_asym_usr_rms vs run
χ^2 / ndf 91.02 / 76
p0 1097 ± 0.8937
1120
1110
1100
1090
1080
1070

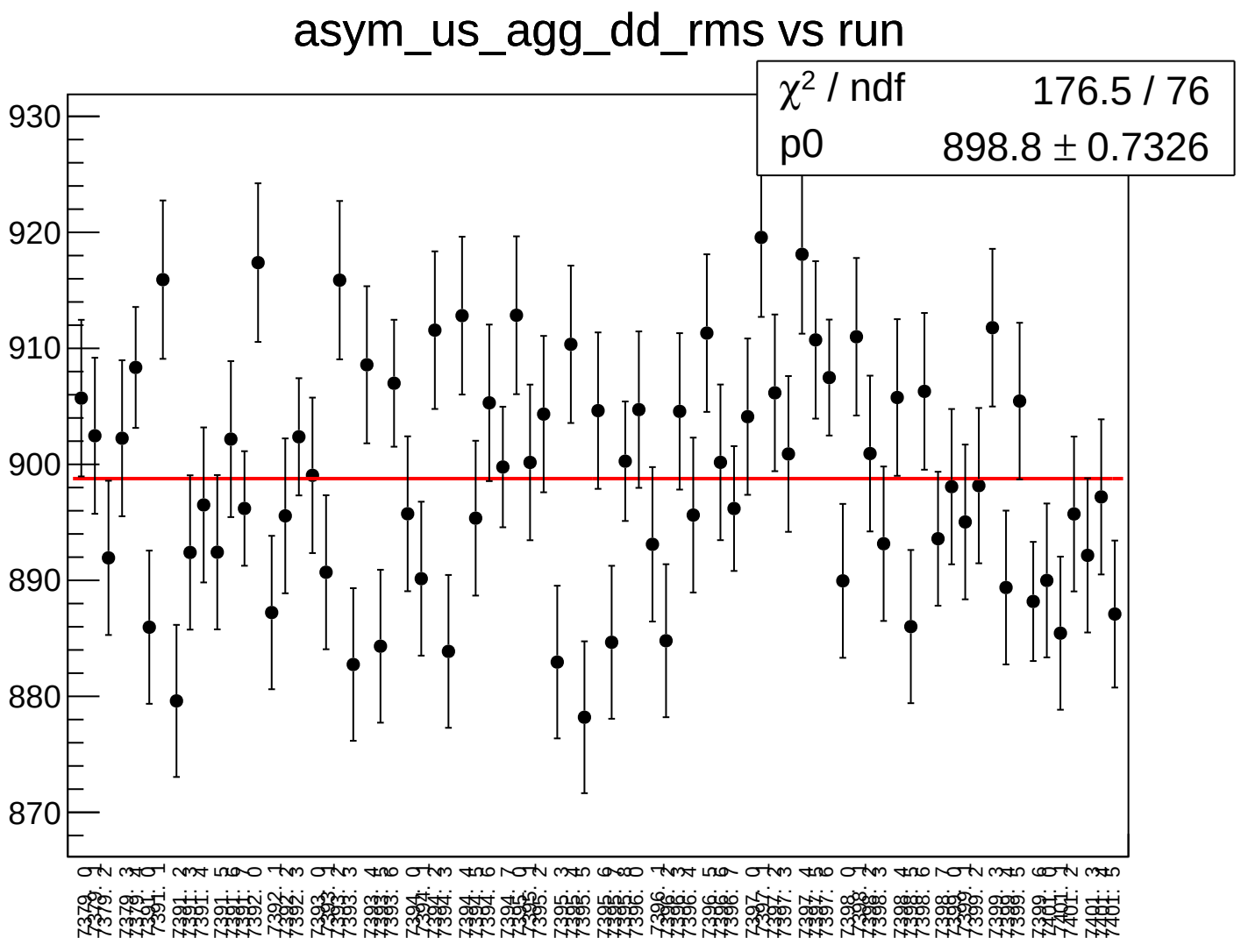

asym_us_agg_avg_mean vs run
χ² / ndf 82.32 / 76
p0 −4492 ± 1635
40000
20000
0
−20000
−40000
−60000
pull
Entries 77
Mean 197.9
Std Dev 144.8
2
1
0
−1
−2
−3

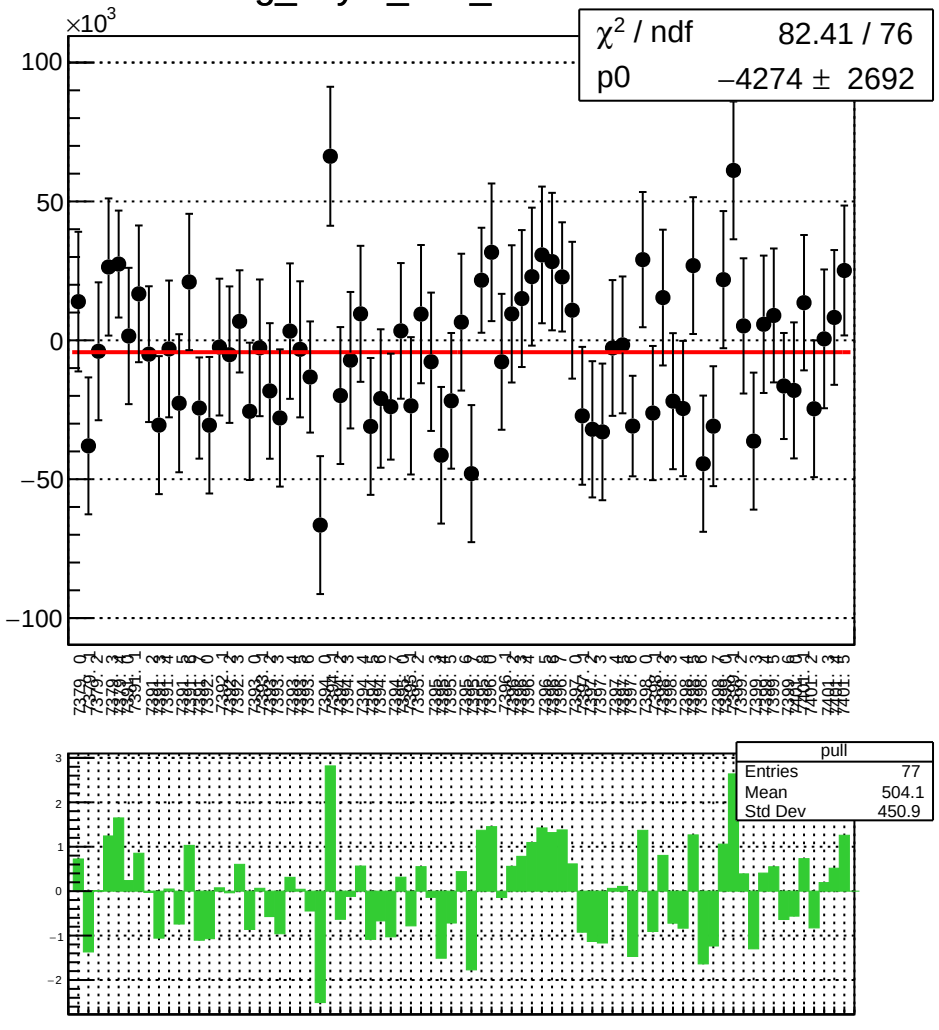

pull1D
Entries 77
Mean 0.01312
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

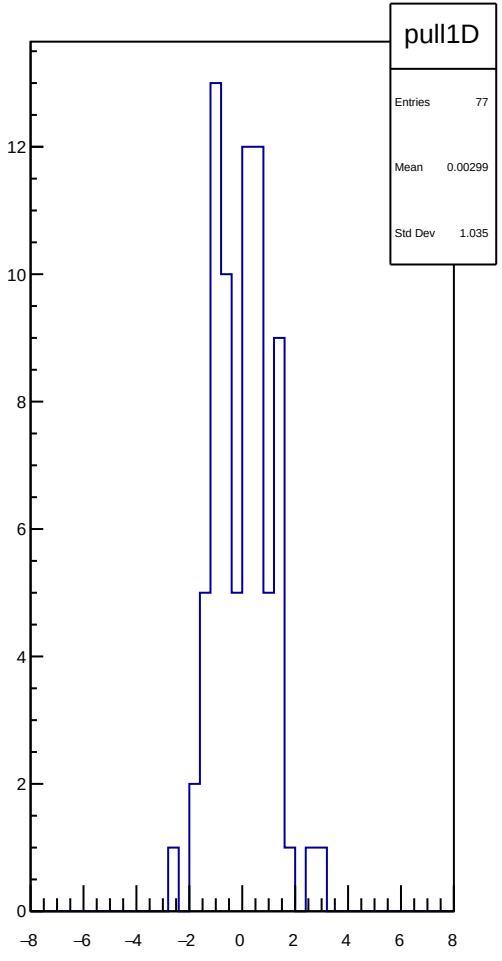

asym_us_agg_avg_rms vs run
χ² / ndf 3432 / 76
p0 1417 ± 1.156
1700
1650
1600
1550
1500
1450
1400
1350
1300

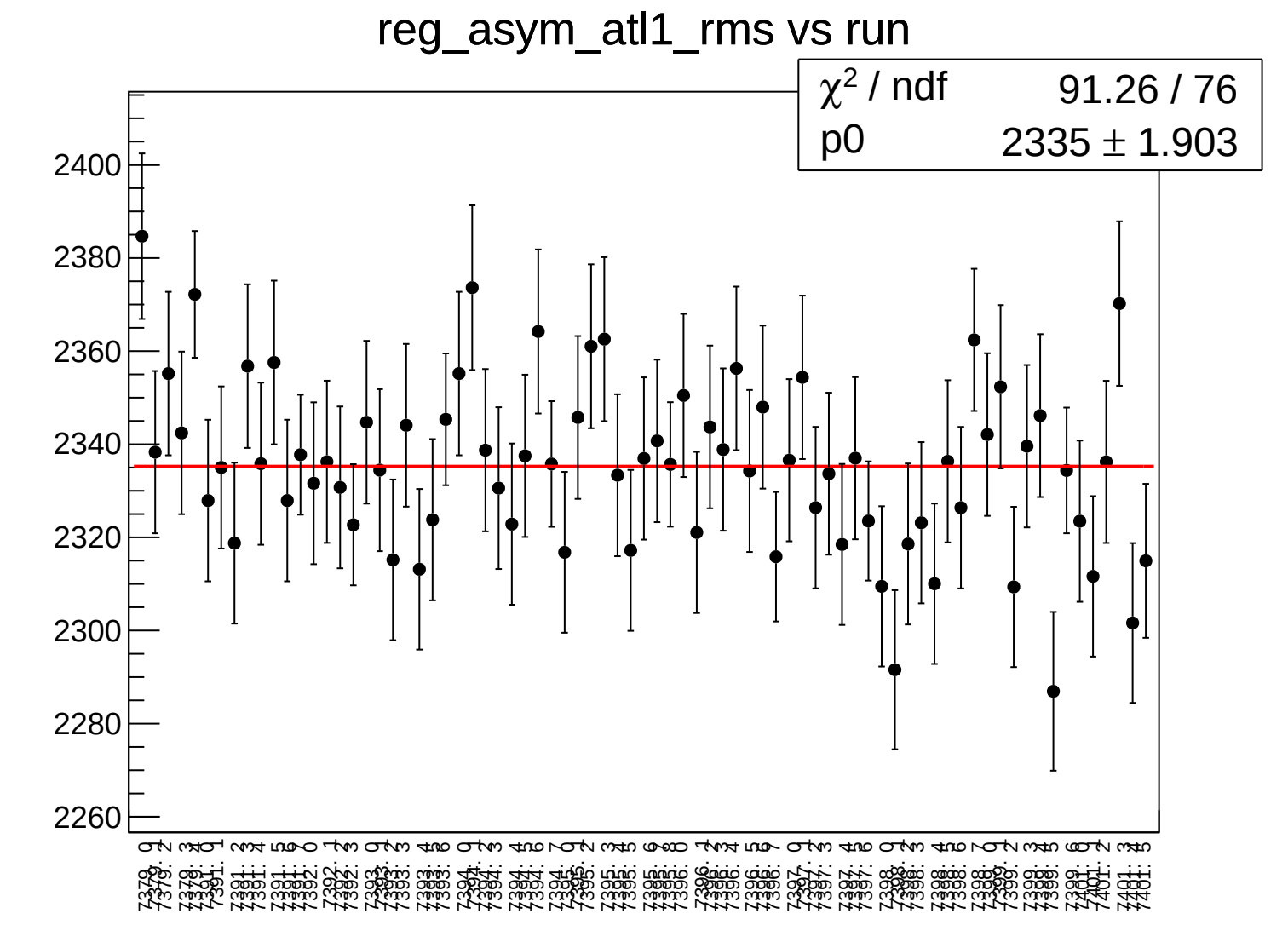

asym_us_agg_dd_mean vs run
χ² / ndf 95.89 / 76
p0 −633.5 ± 1036
pull
Entries 77
Mean −67.19
Std Dev 113.6

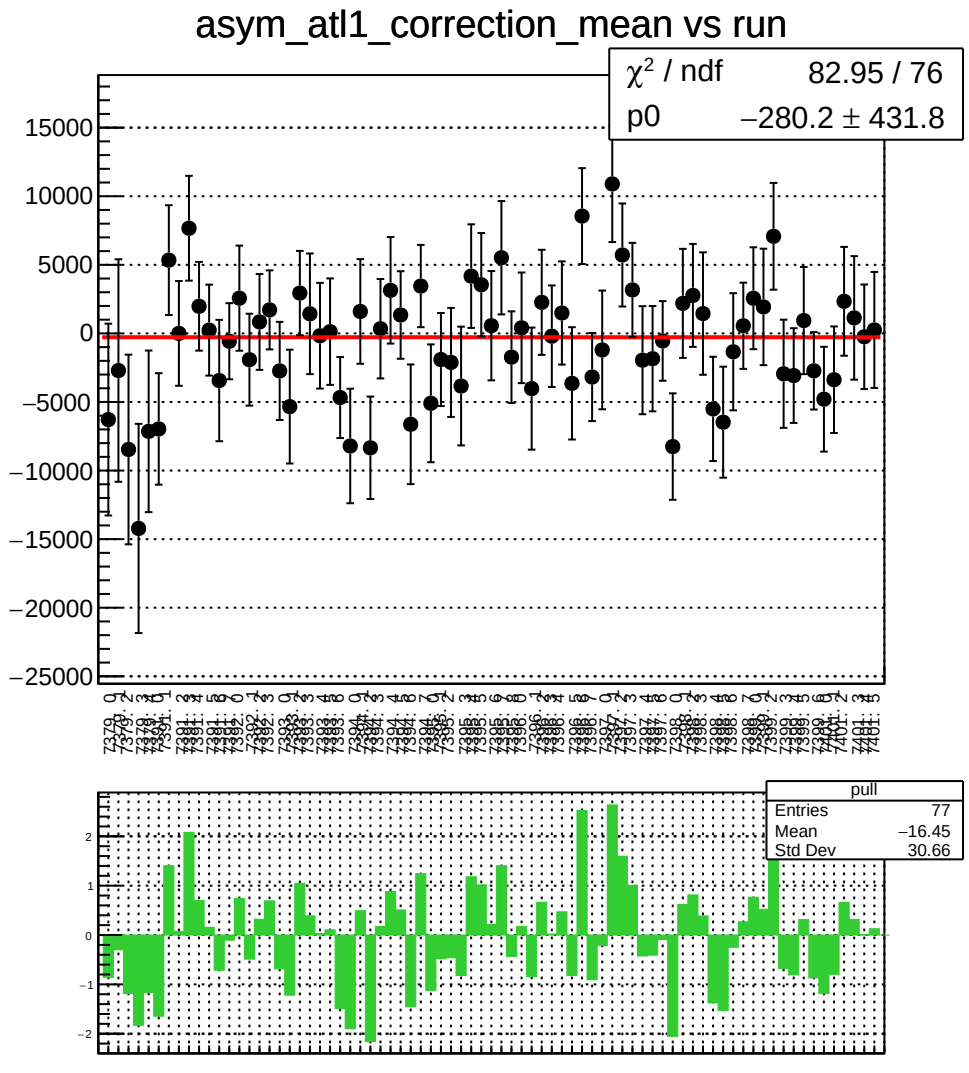

pull1D
Entries 77
Mean 0.02386
Std Dev 1.116

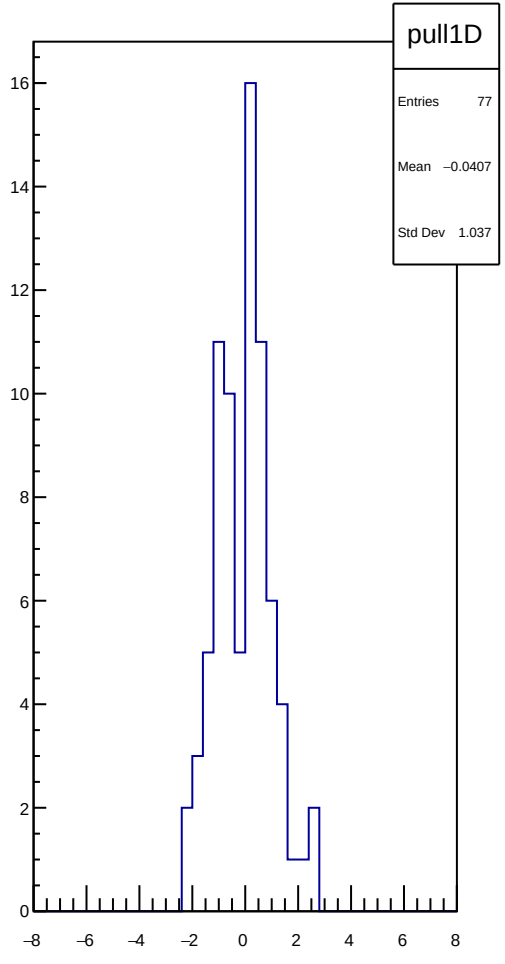

asym_us_agg_dd_rms vs run
χ^2 / ndf 176.5 / 76
p0 898.8 ± 0.7326
930
920
910
900
890
880
870

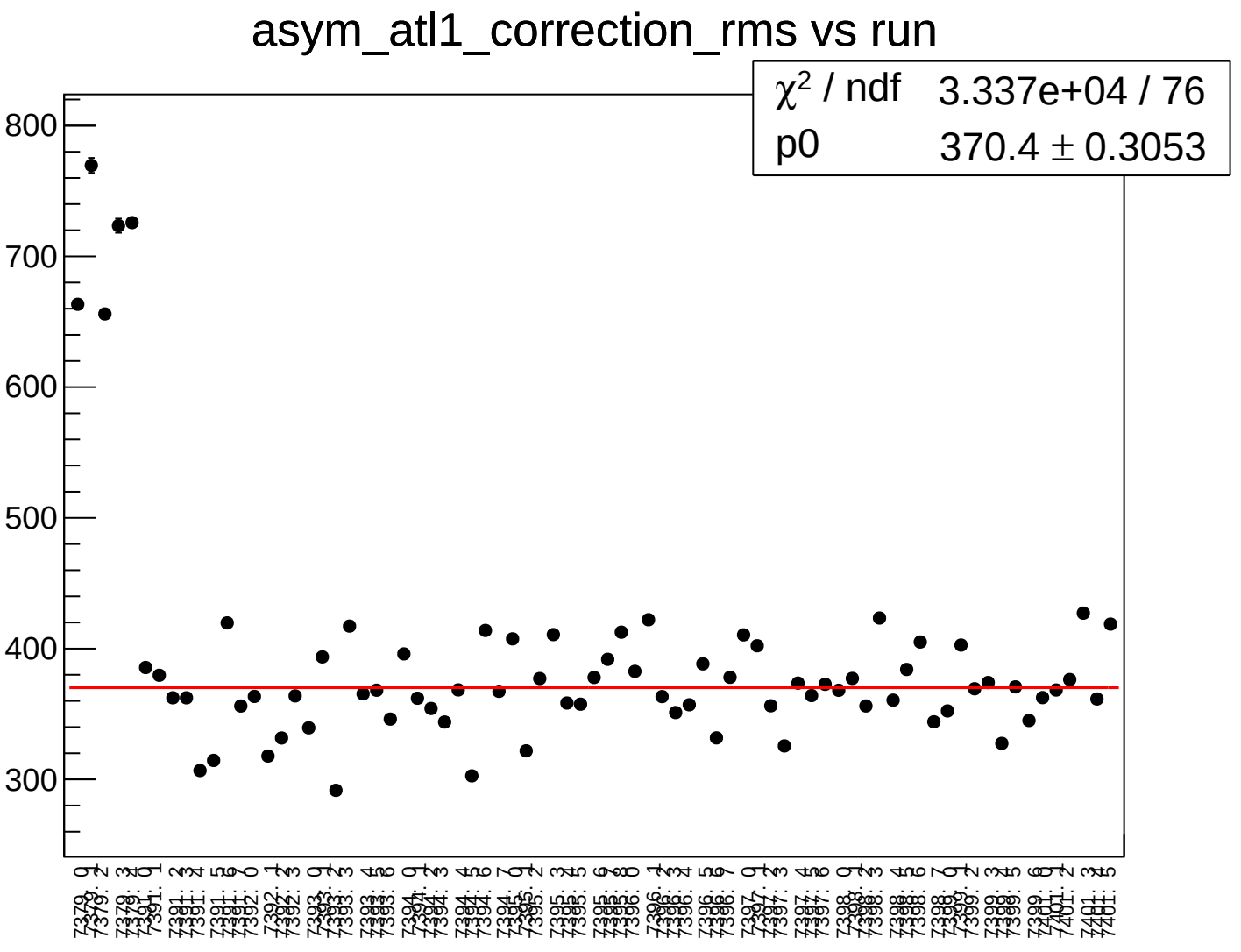

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 82.41 / 76
p0 −4274 ± 2692
100
50
0
−50
−100
pull
Entries 77
Mean 504.1
Std Dev 450.9
3
2
1
0
−1
−2

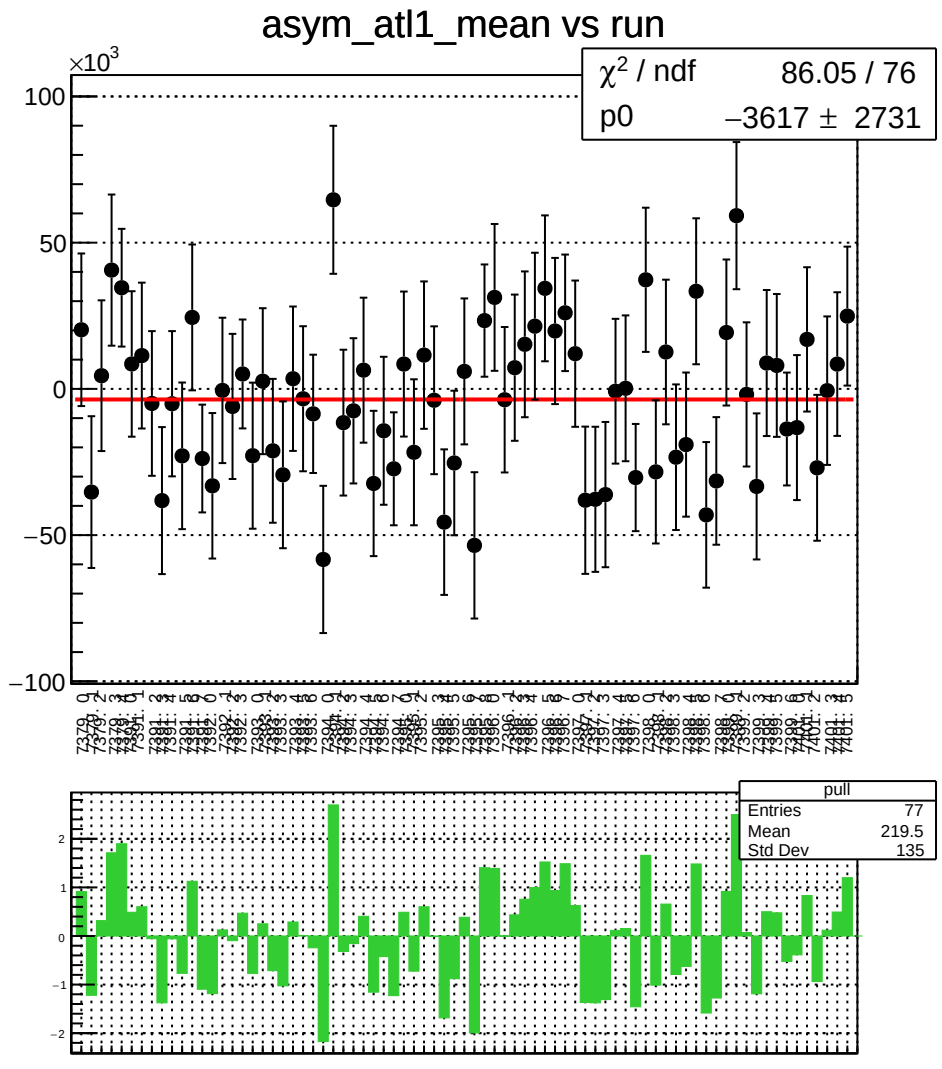

pull1D
Entries 77
Mean 0.00299
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

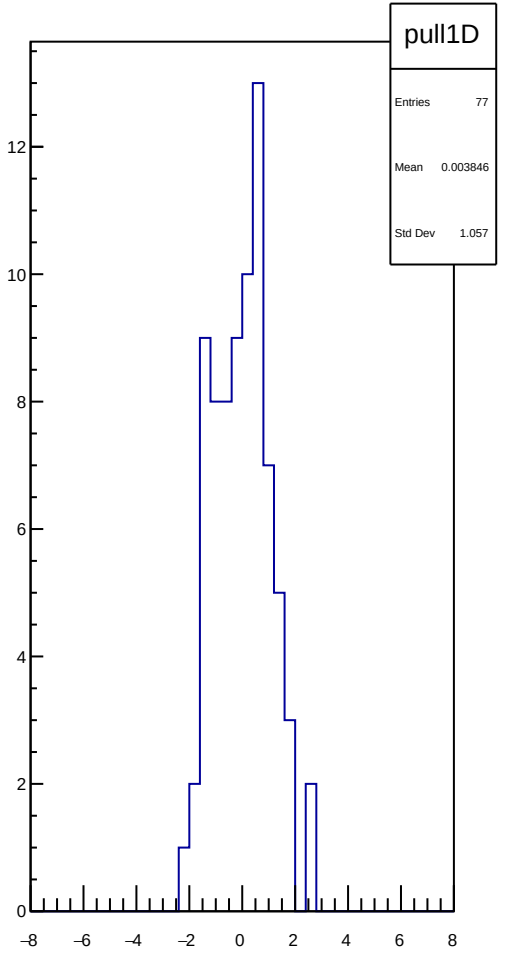

reg_asym_atl1_rms vs run
χ^2 / ndf 91.26 / 76
p0 2335 ± 1.903
2400
2380
2360
2340
2320
2300
2280
2260

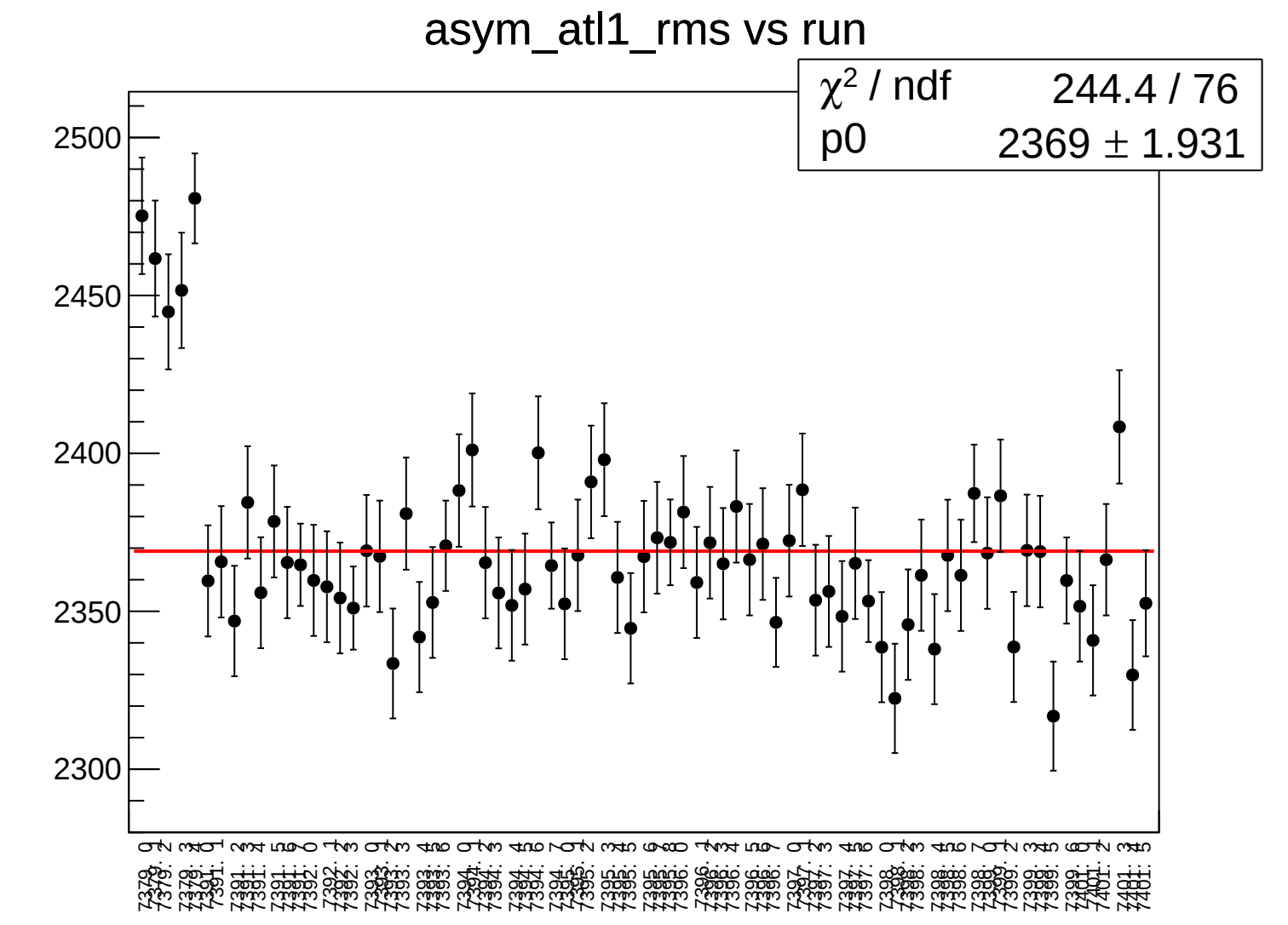

asym_atl1_correction_mean vs run
χ² / ndf 82.95 / 76
p0 −280.2 ± 431.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 77
Mean −16.45
Std Dev 30.66
2
1
0
−1
−2

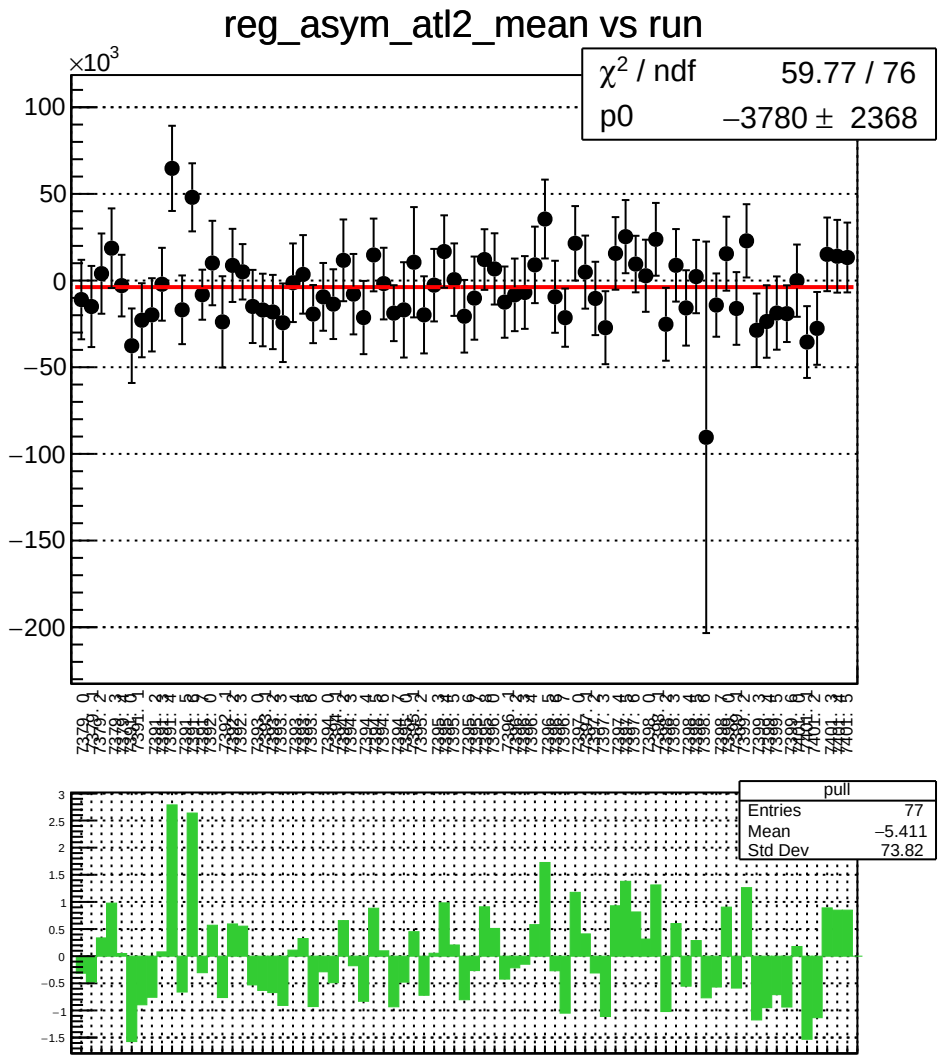

pull1D
Entries 77
Mean −0.0407
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

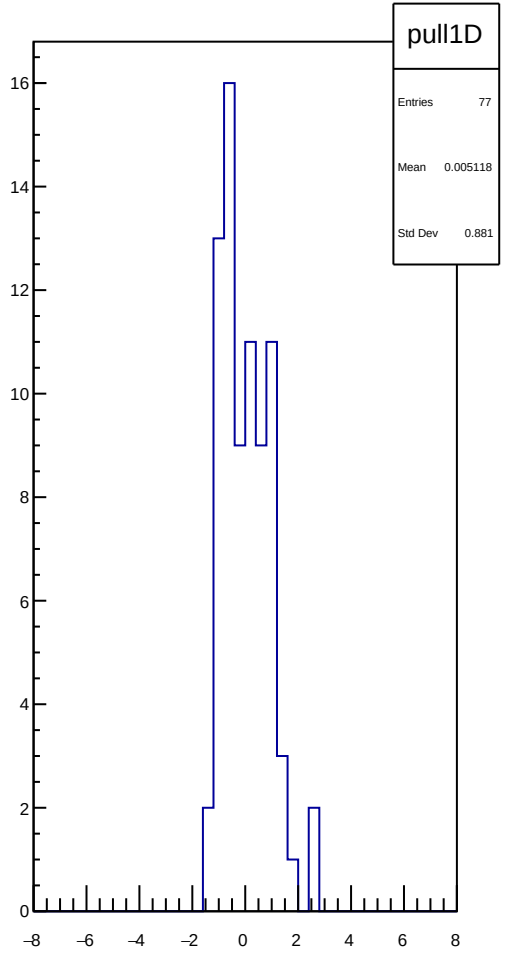

asym_atl1_correction_rms vs run
χ^2 / ndf 3.337e+04 / 76
p0 370.4 ± 0.3053
800
700
600
500
400
300

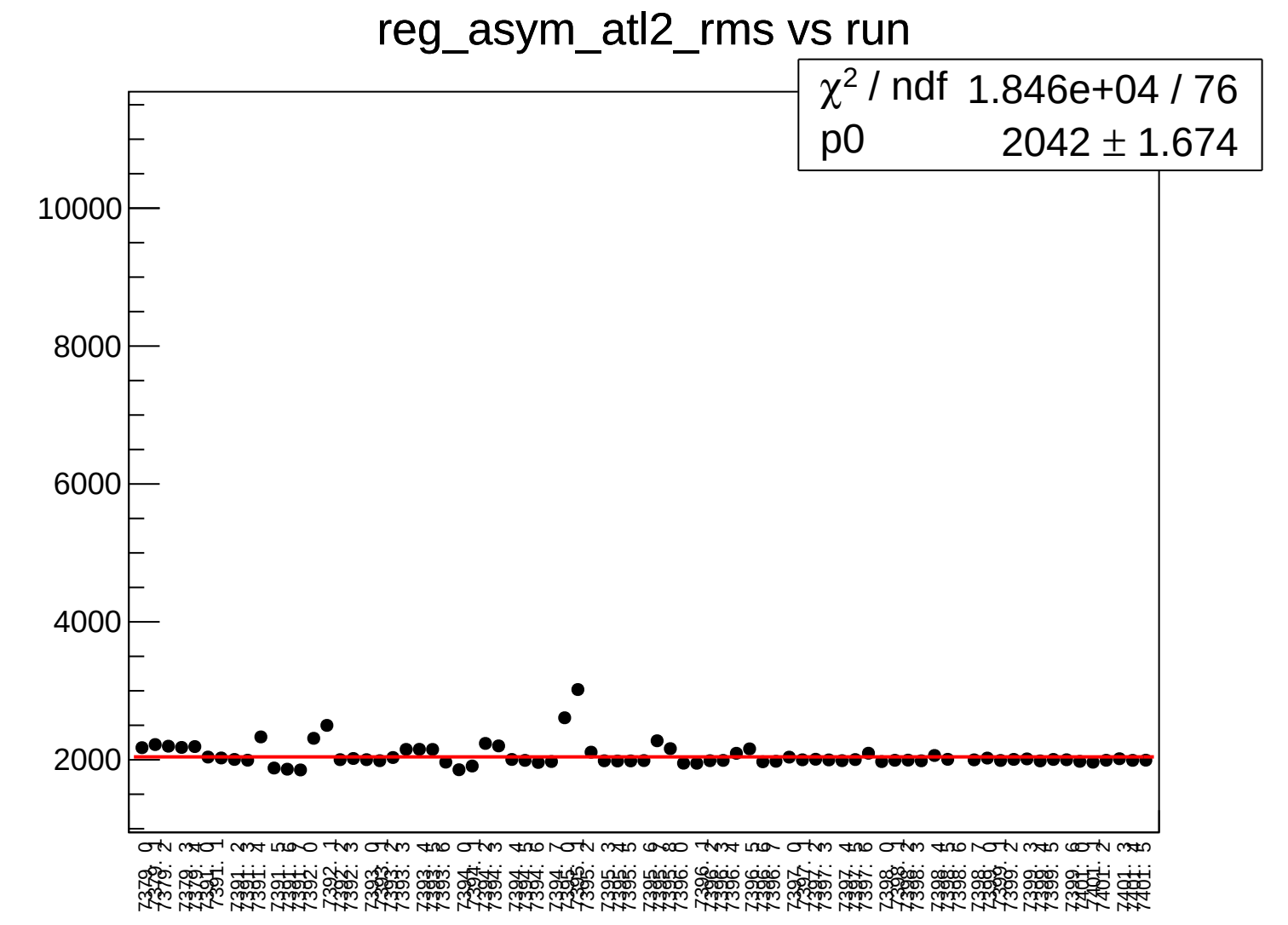

asym_atl1_mean vs run
×10^3
χ² / ndf 86.05 / 76
p0 −3617 ± 2731
100
50
0
−50
−100
pull
Entries 77
Mean 219.5
Std Dev 135
2
1
0
−1
−2

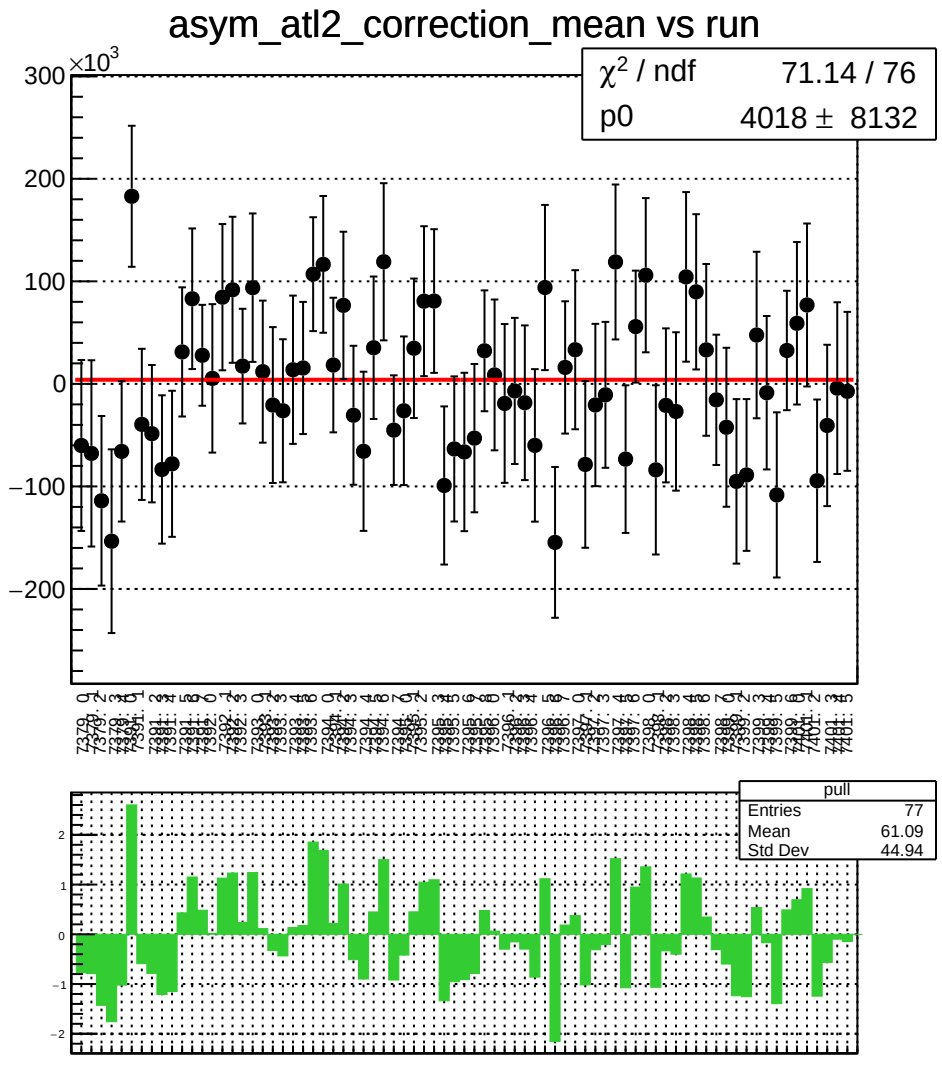

pull1D
Entries 77
Mean 0.003846
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

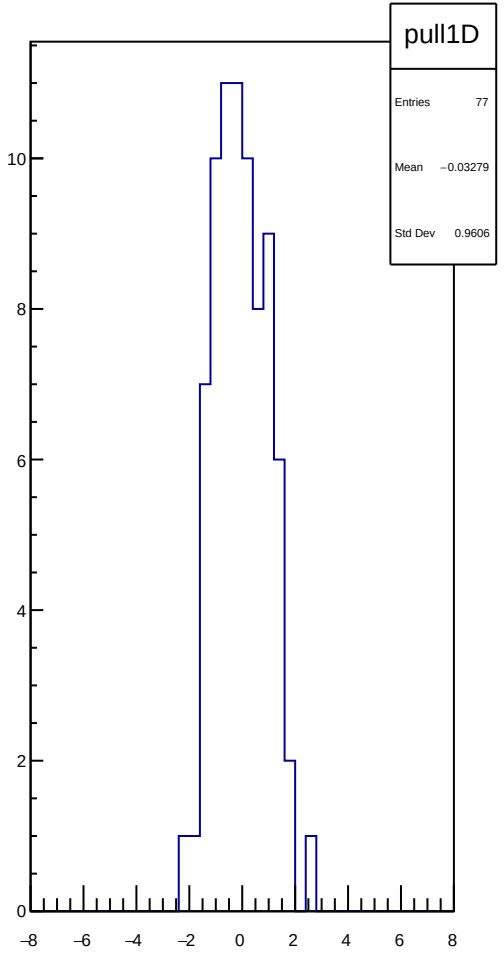

asym_atl1_rms vs run
χ² / ndf 244.4 / 76
p0 2369 ± 1.931
2500
2450
2400
2350
2300

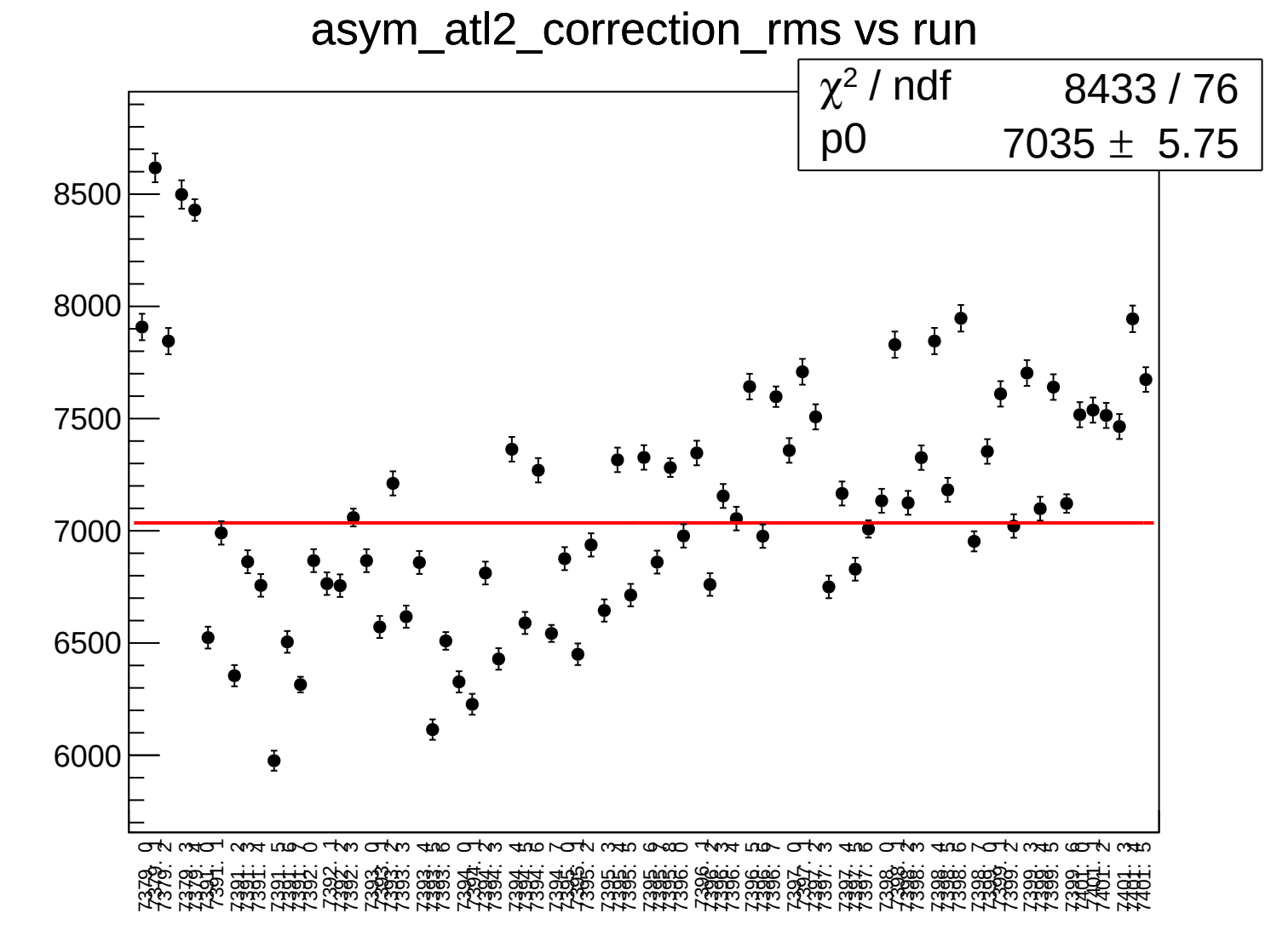

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 59.77 / 76
p0 −3780 ± 2368
100
50
0
−50
−100
−150
−200
pull
Entries 77
Mean −5.411
Std Dev 73.82
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

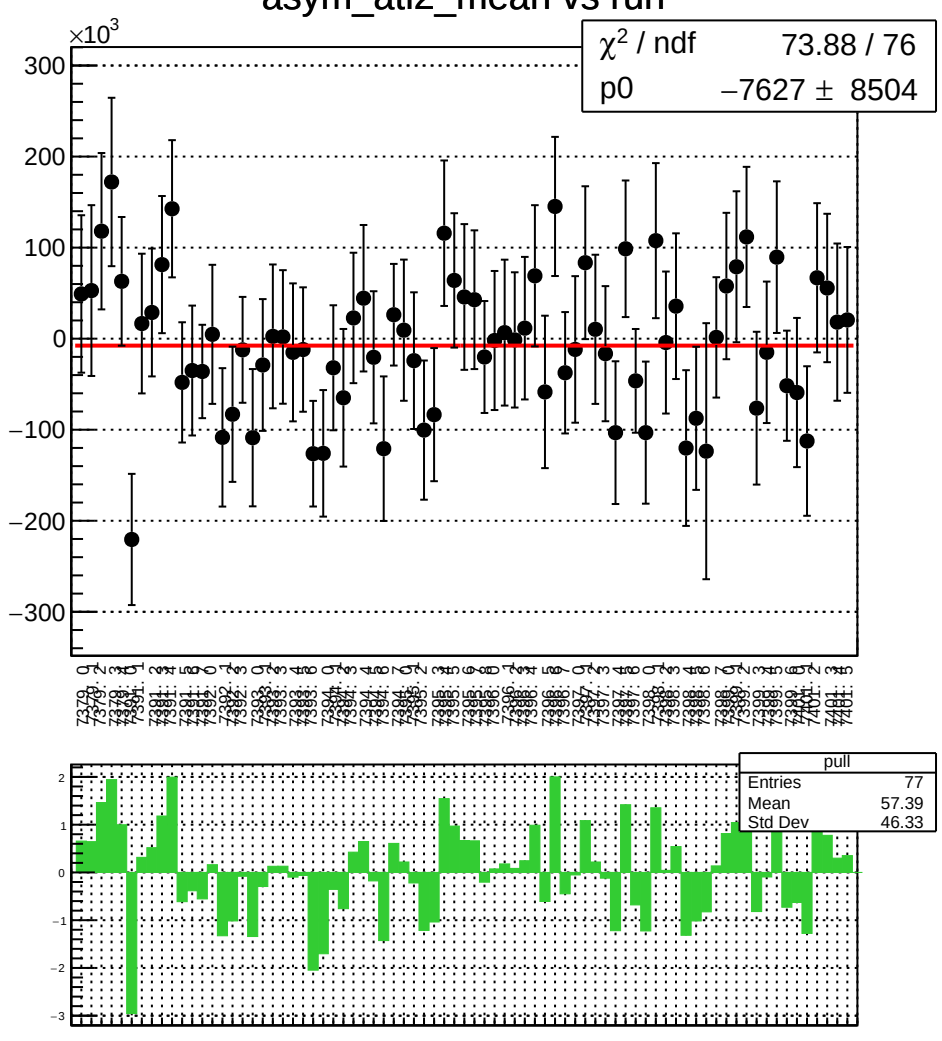

pull1D
Entries 77
Mean 0.005118
Std Dev 0.881
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

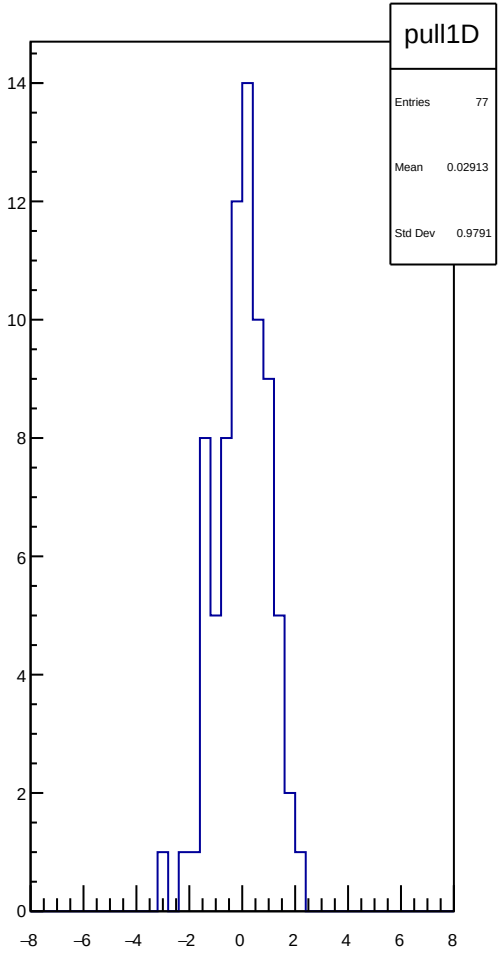

reg_asym_atl2_rms vs run
χ^2 / ndf 1.846e+04 / 76
p0 2042 ± 1.674
10000
8000
6000
4000
2000

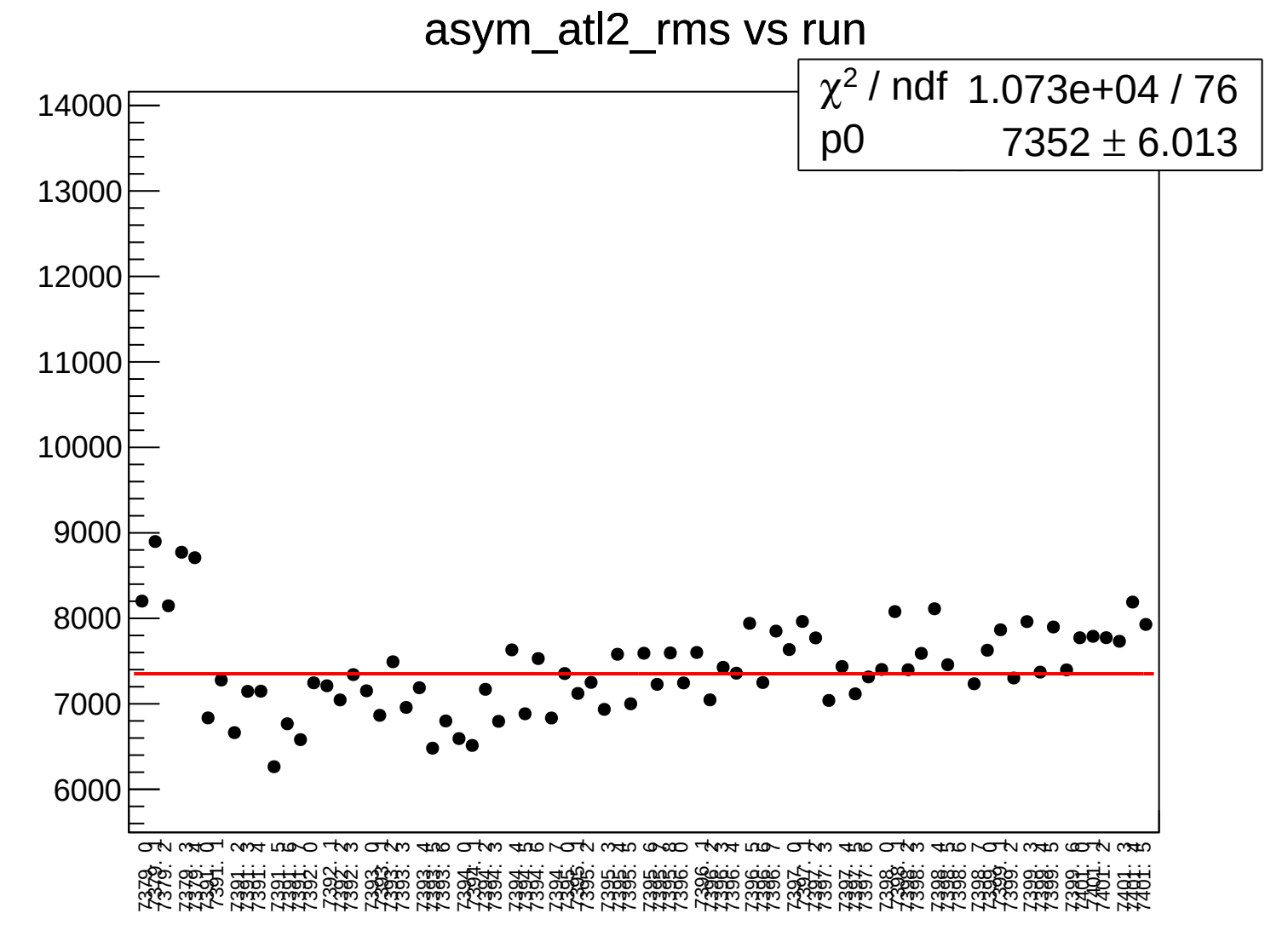

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 71.14 / 76
p0 4018 ± 8132
pull
Entries 77
Mean 61.09
Std Dev 44.94

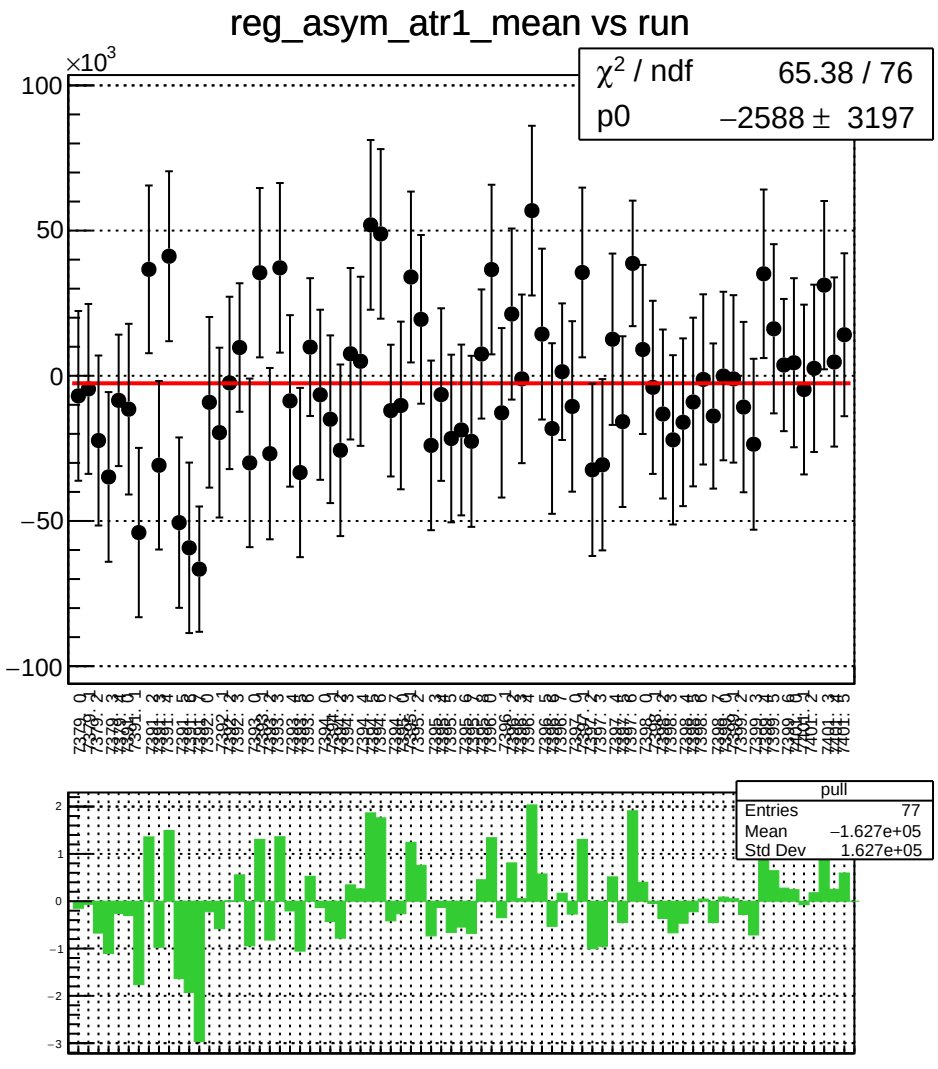

pull1D
Entries 77
Mean −0.03279
Std Dev 0.9606

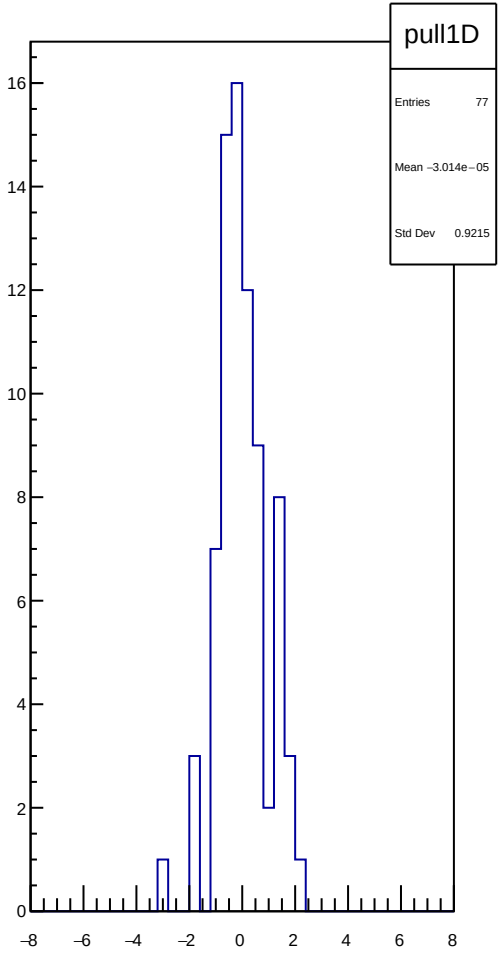

asym_atl2_correction_rms vs run
χ² / ndf 8433 / 76
p0 7035 ± 5.75
8500
8000
7500
7000
6500
6000

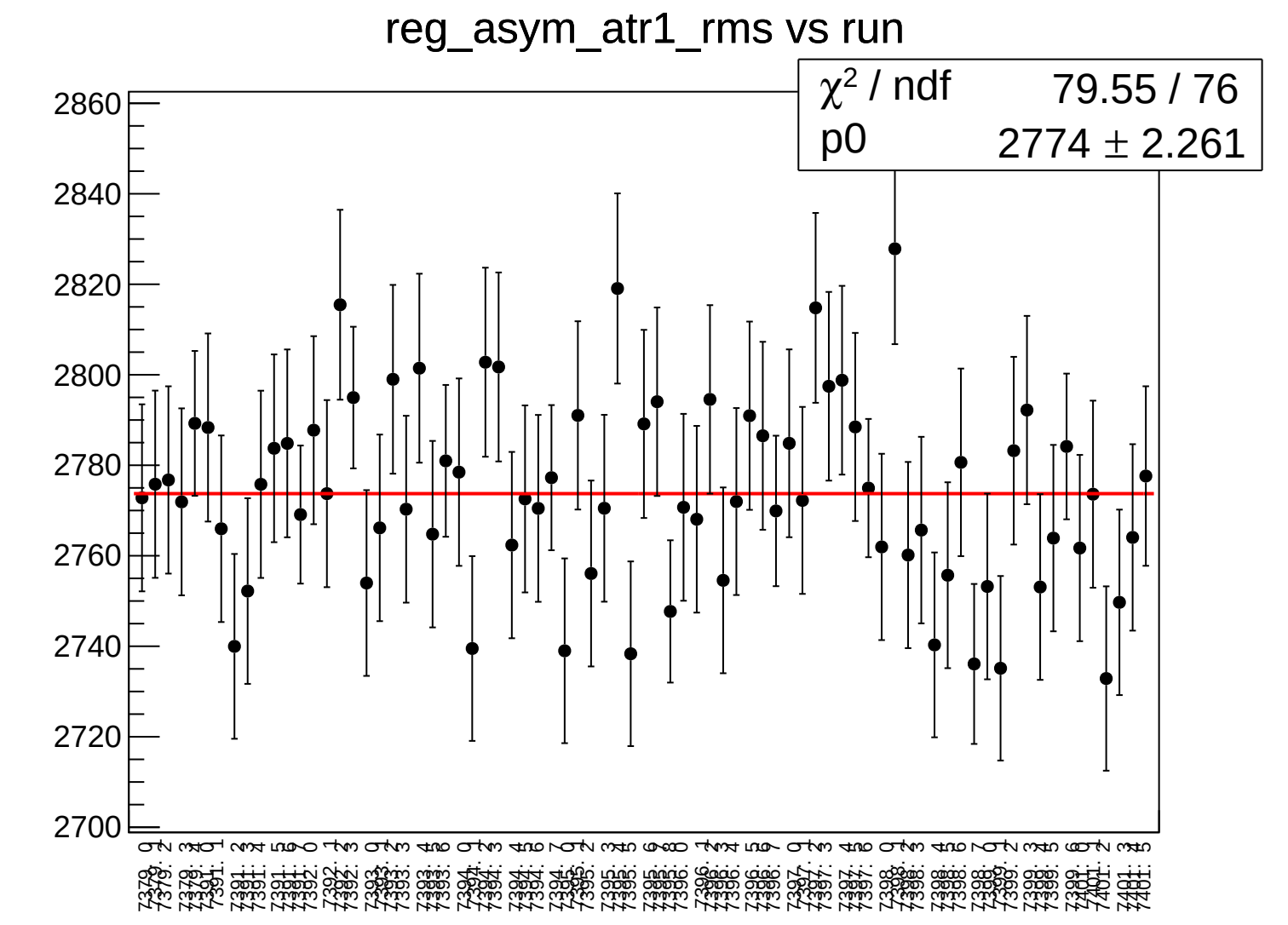

asym_atl2_mean vs run
×10^3
χ² / ndf 73.88 / 76
p0 −7627 ± 8504
pull
Entries 77
Mean 57.39
Std Dev 46.33

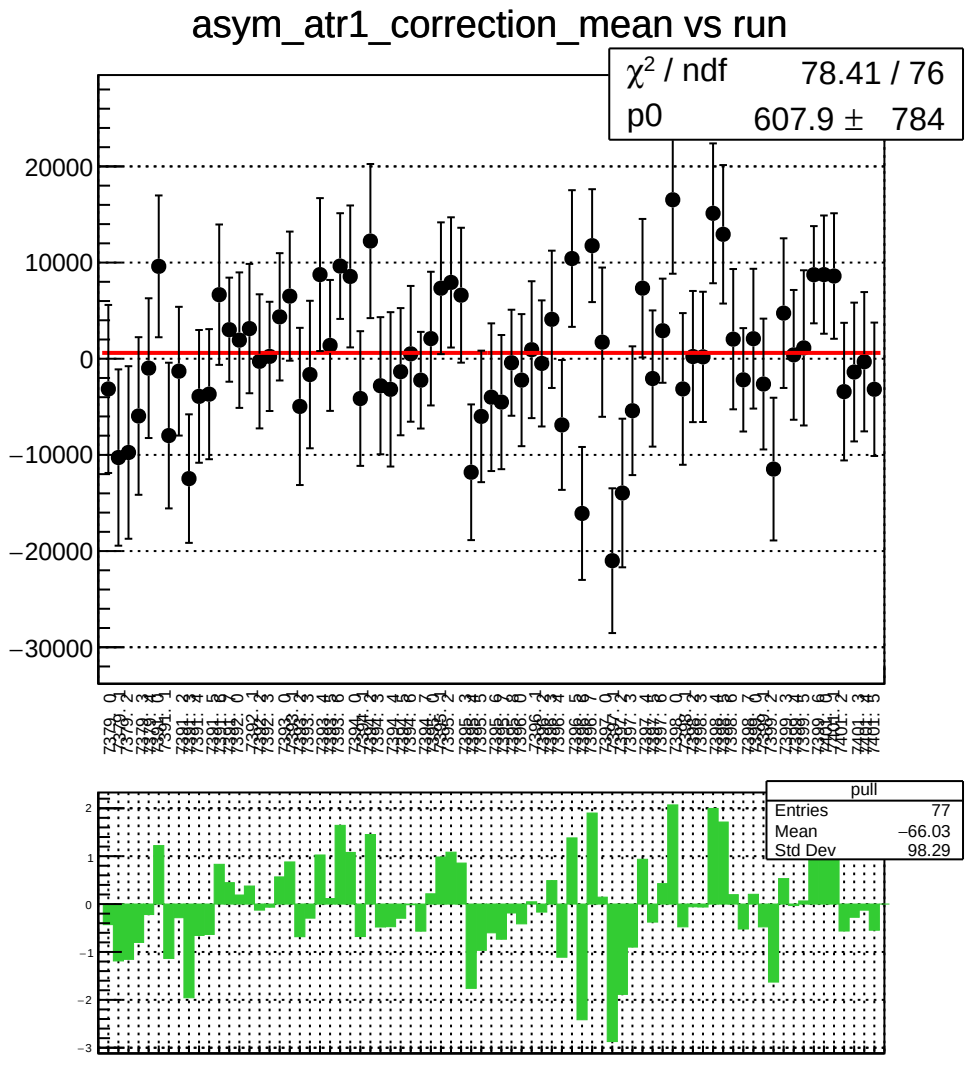

pull1D
Entries 77
Mean 0.02913
Std Dev 0.9791

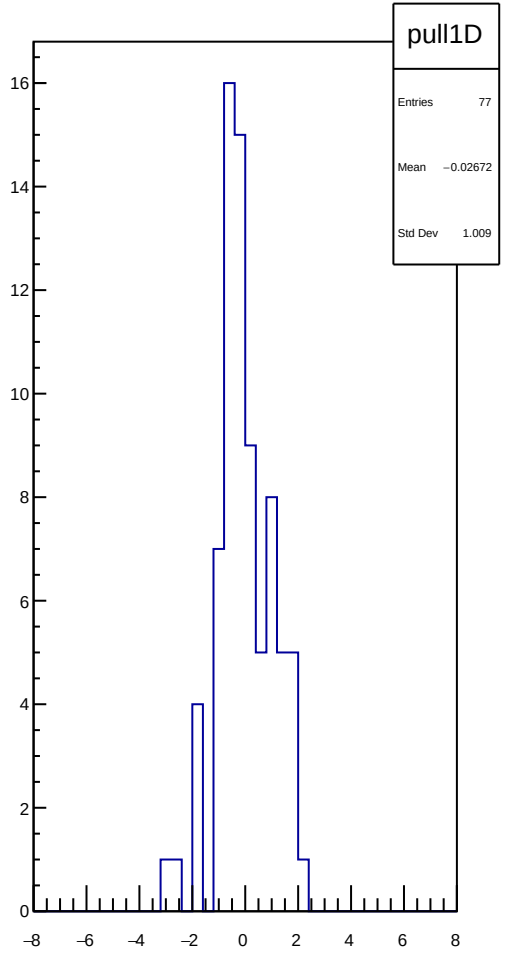

asym_atl2_rms vs run
χ^2 / ndf 1.073e+04 / 76
p0 7352 ± 6.013
14000
13000
12000
11000
10000
9000
8000
7000
6000

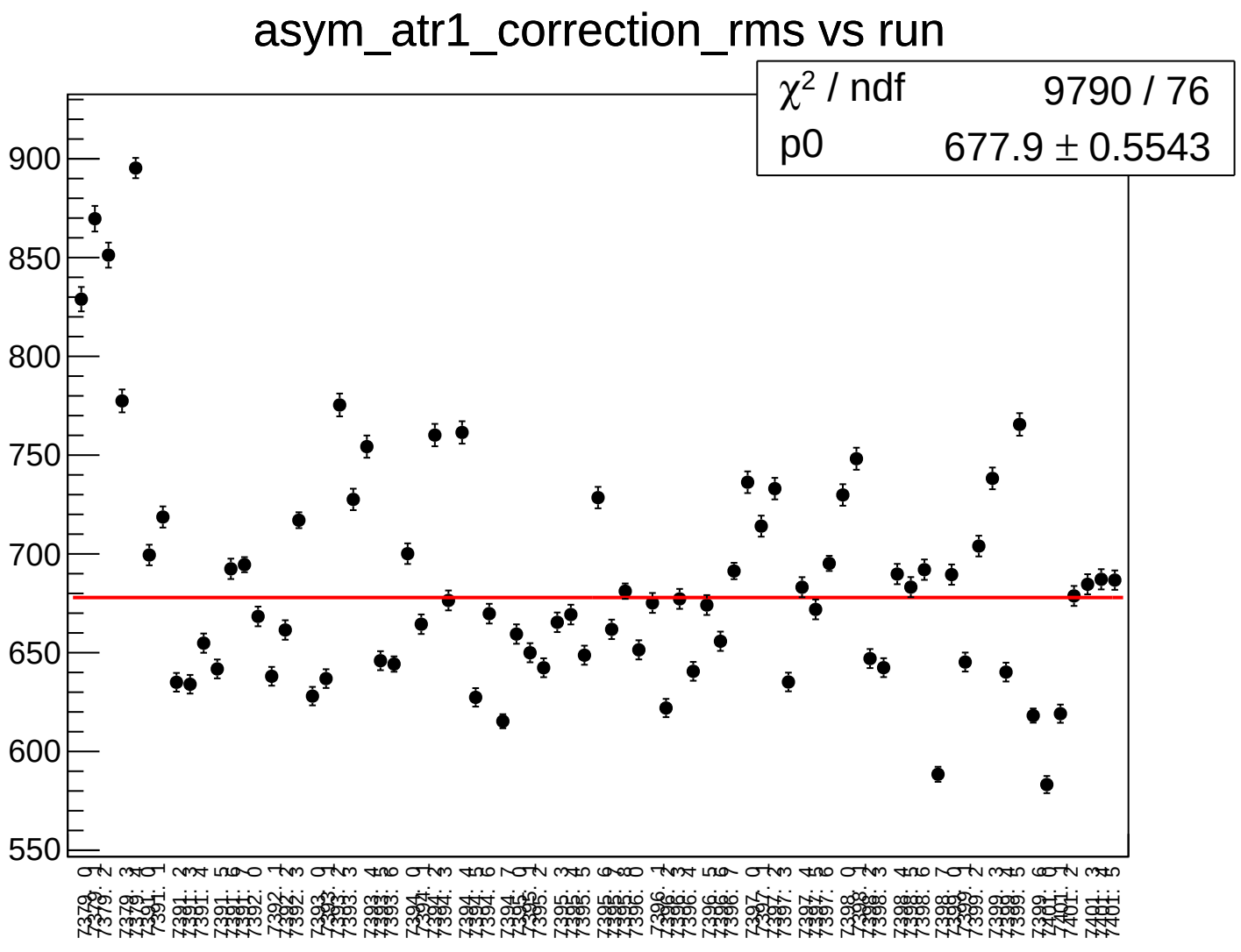

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 65.38 / 76
p0 −2588 ± 3197
pull
Entries 77
Mean −1.627e+05
Std Dev 1.627e+05

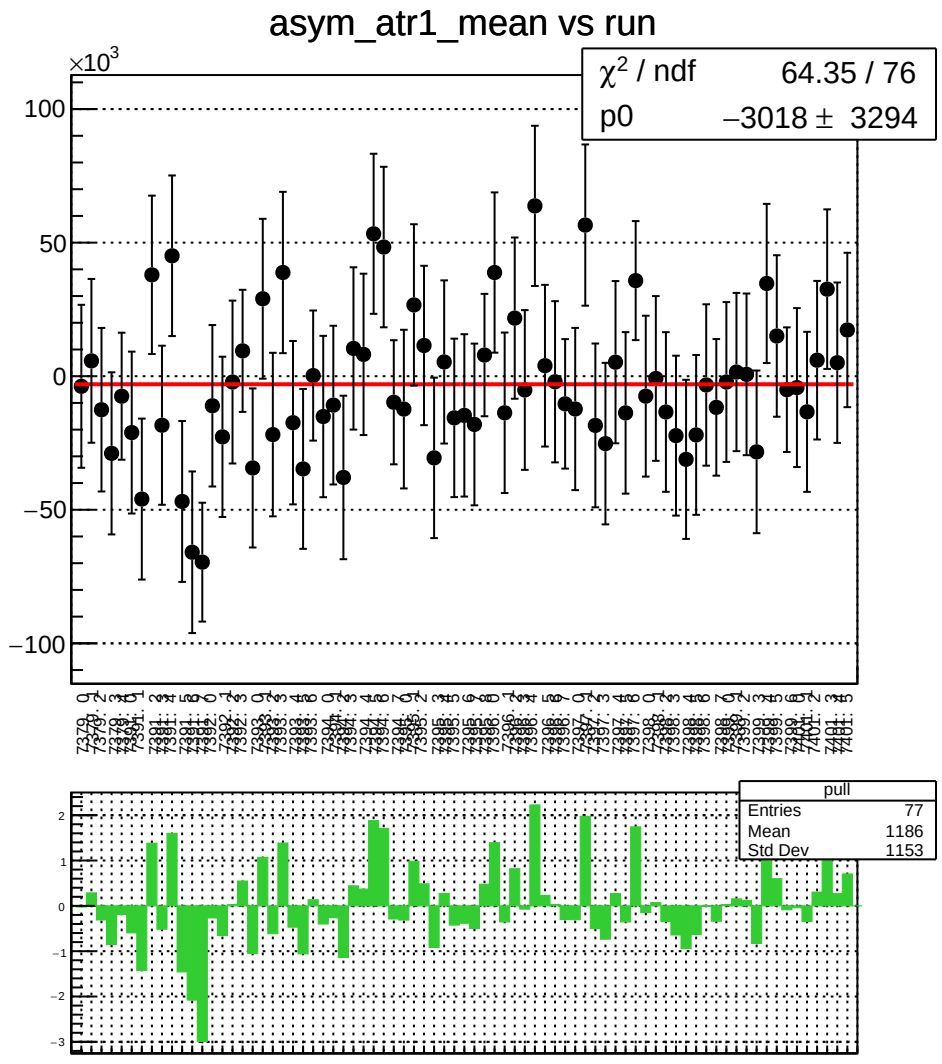

pull1D
Entries 77
Mean −3.014e−05
Std Dev 0.9215

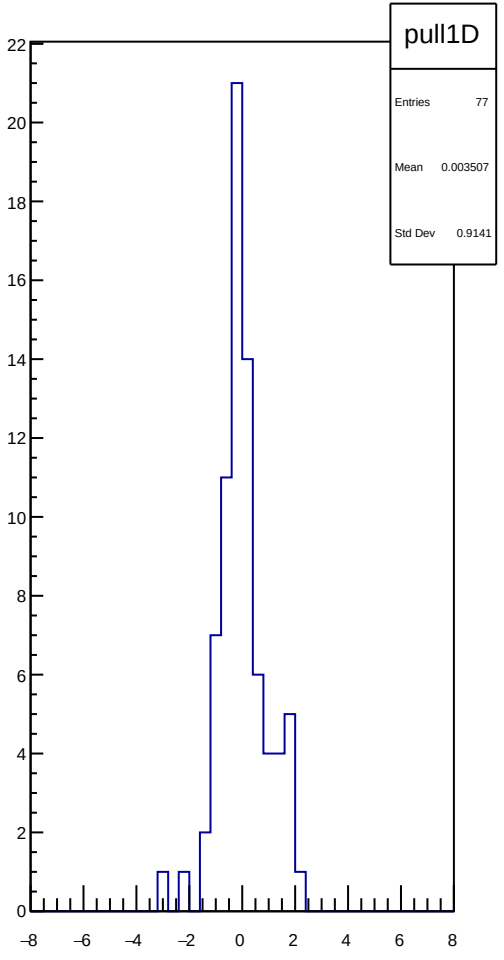

reg_asym_atr1_rms vs run
χ² / ndf 79.55 / 76
p0 2774 ± 2.261
2860
2840
2820
2800
2780
2760
2740
2720
2700

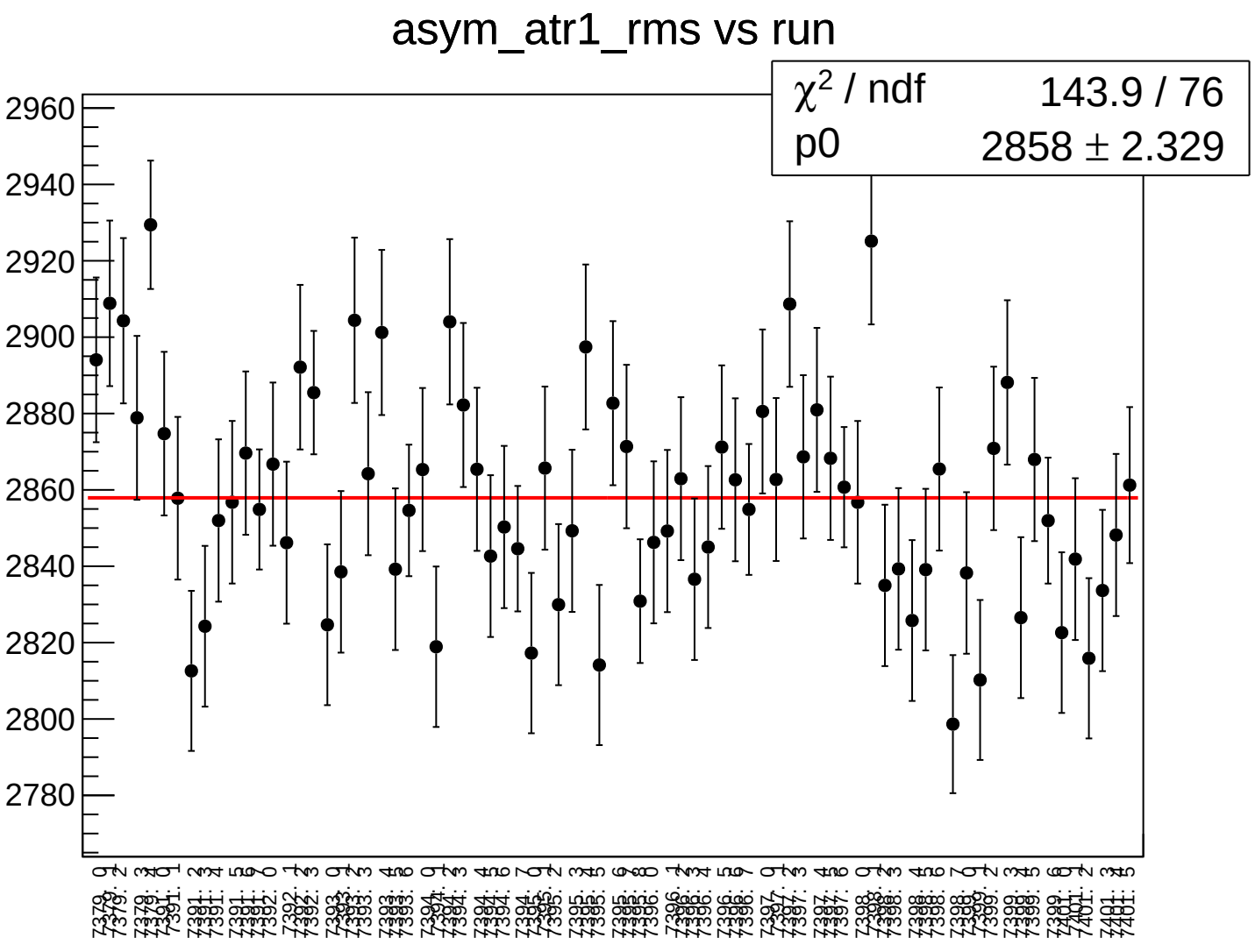

asym_atr1_correction_mean vs run
χ² / ndf 78.41 / 76
p0 607.9 ± 784
pull
Entries 77
Mean −66.03
Std Dev 98.29

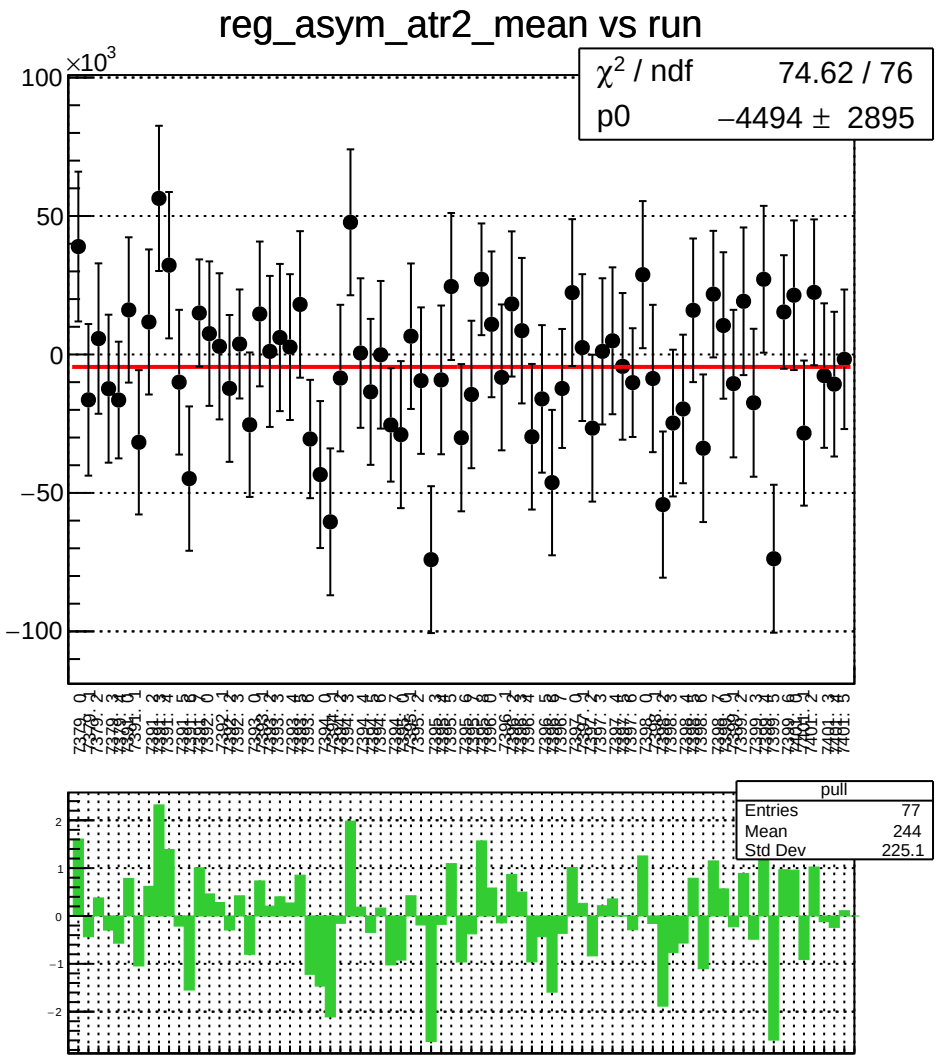

pull1D
Entries 77
Mean −0.02672
Std Dev 1.009

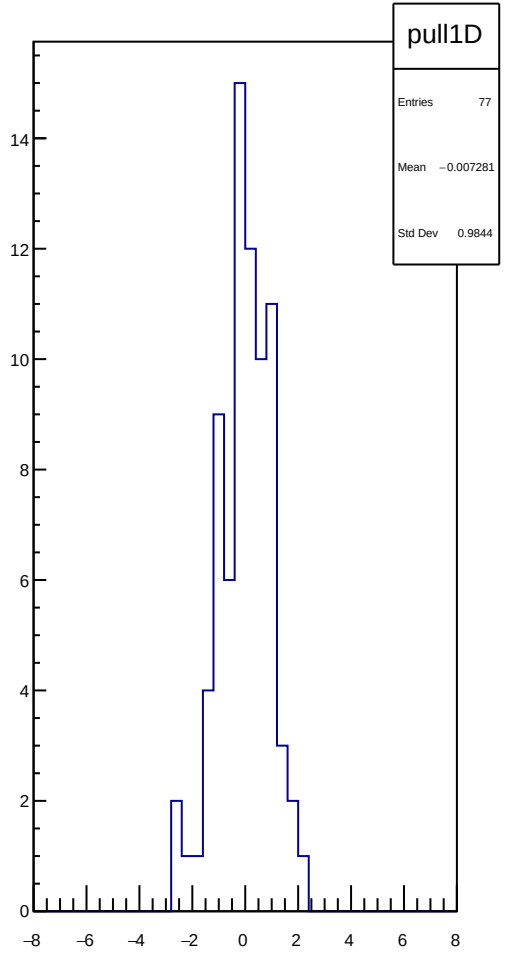

asym_atr1_correction_rms vs run
χ² / ndf 9790 / 76
p0 677.9 ± 0.5543
900
850
800
750
700
650
600
550

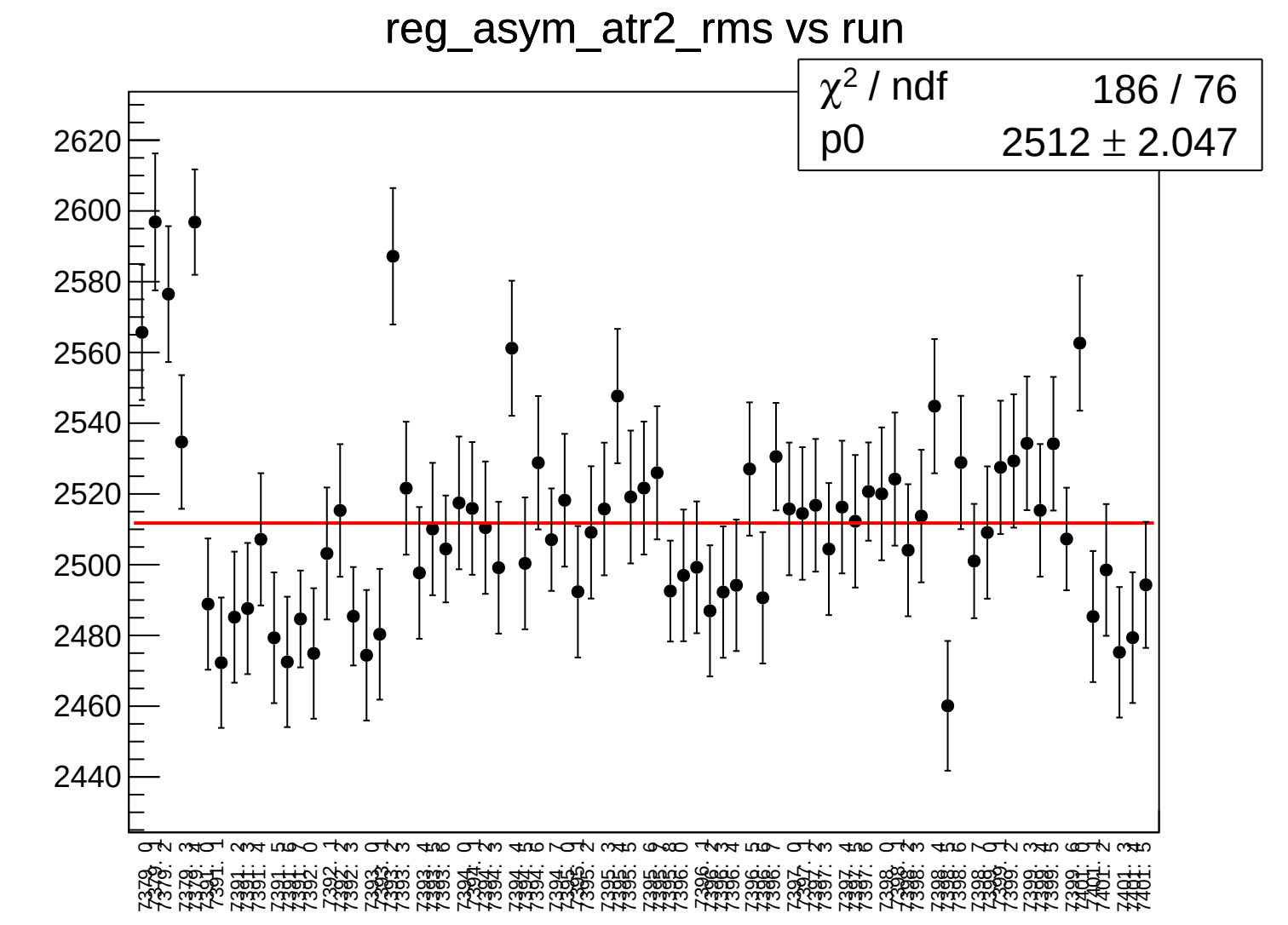

asym_atr1_mean vs run
×10^3
χ² / ndf 64.35 / 76
p0 −3018 ± 3294
pull
Entries 77
Mean 1186
Std Dev 1153

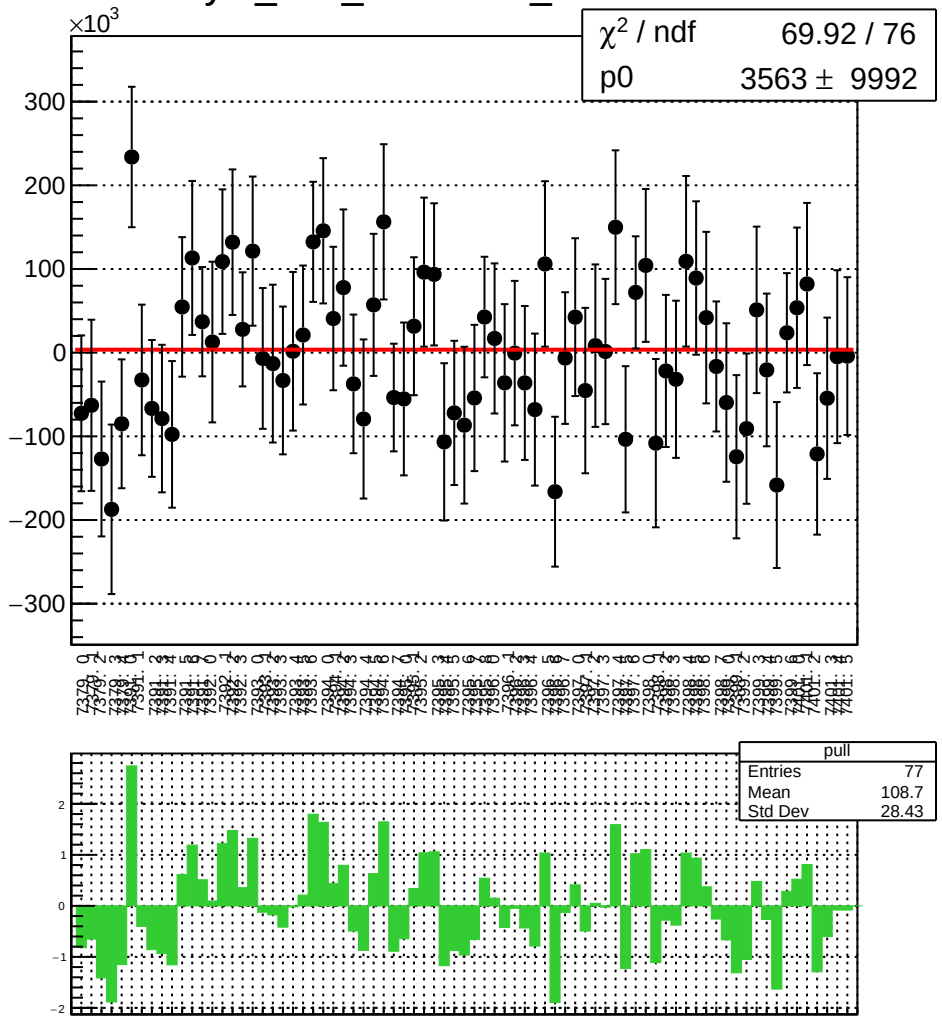

pull1D
Entries 77
Mean 0.003507
Std Dev 0.9141

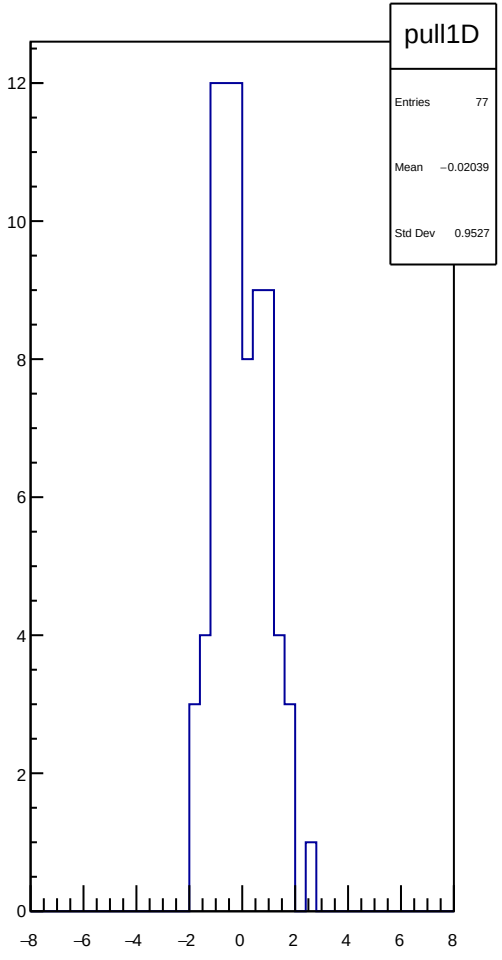

asym_atr1_rms vs run
χ^2 / ndf 143.9 / 76
p0 2858 ± 2.329
2960
2940
2920
2900
2880
2860
2840
2820
2800
2780

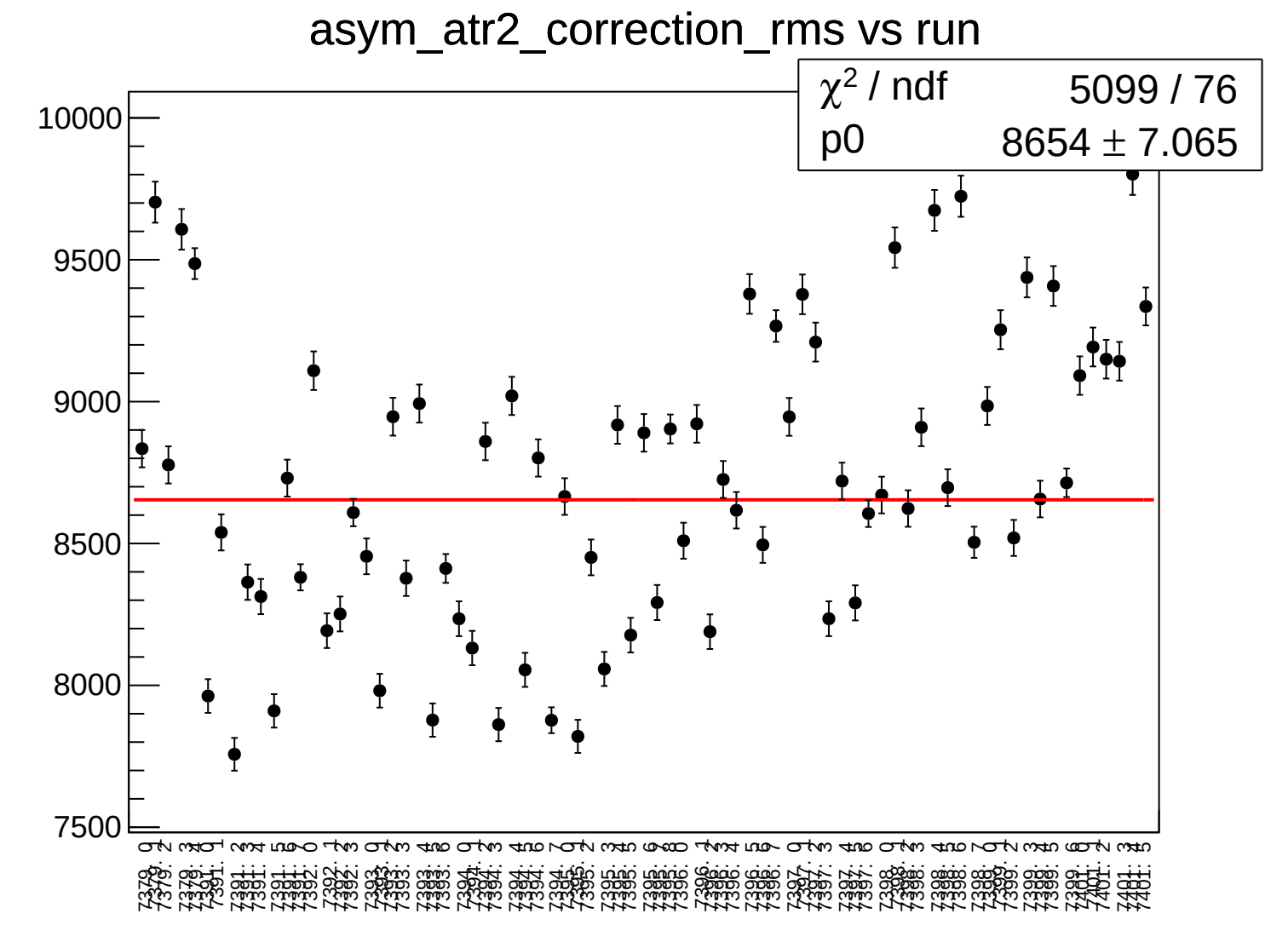

reg_asym_atr2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 74.62 / 76
p0 −4494 ± 2895
pull
Entries 77
Mean 244
Std Dev 225.1
2
1
0
−1
−2

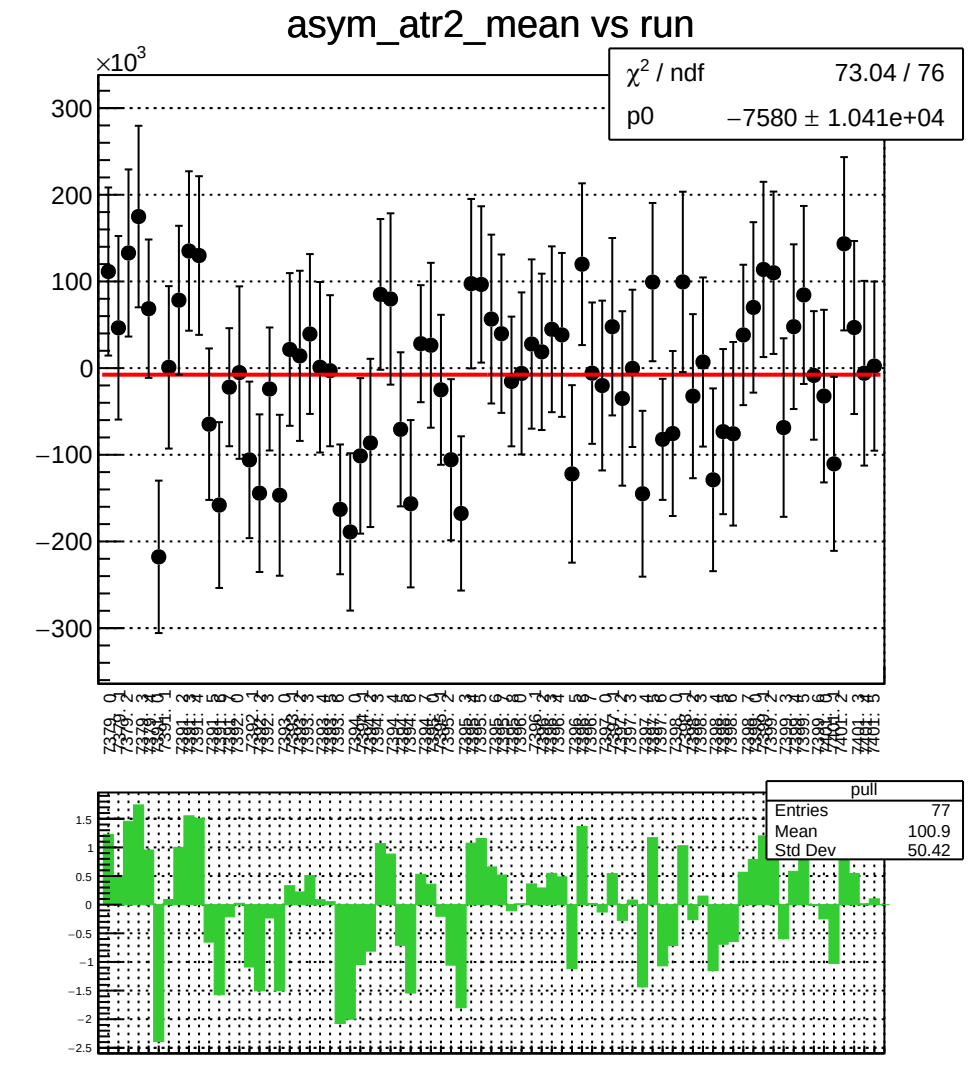

pull1D
Entries 77
Mean −0.007281
Std Dev 0.9844
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

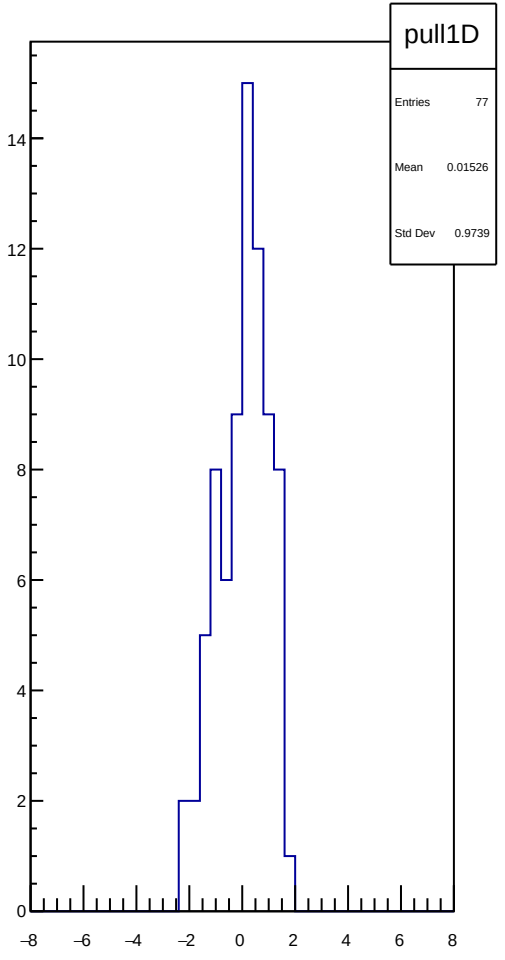

reg_asym_atr2_rms vs run
χ^2 / ndf 186 / 76
p0 2512 ± 2.047
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440

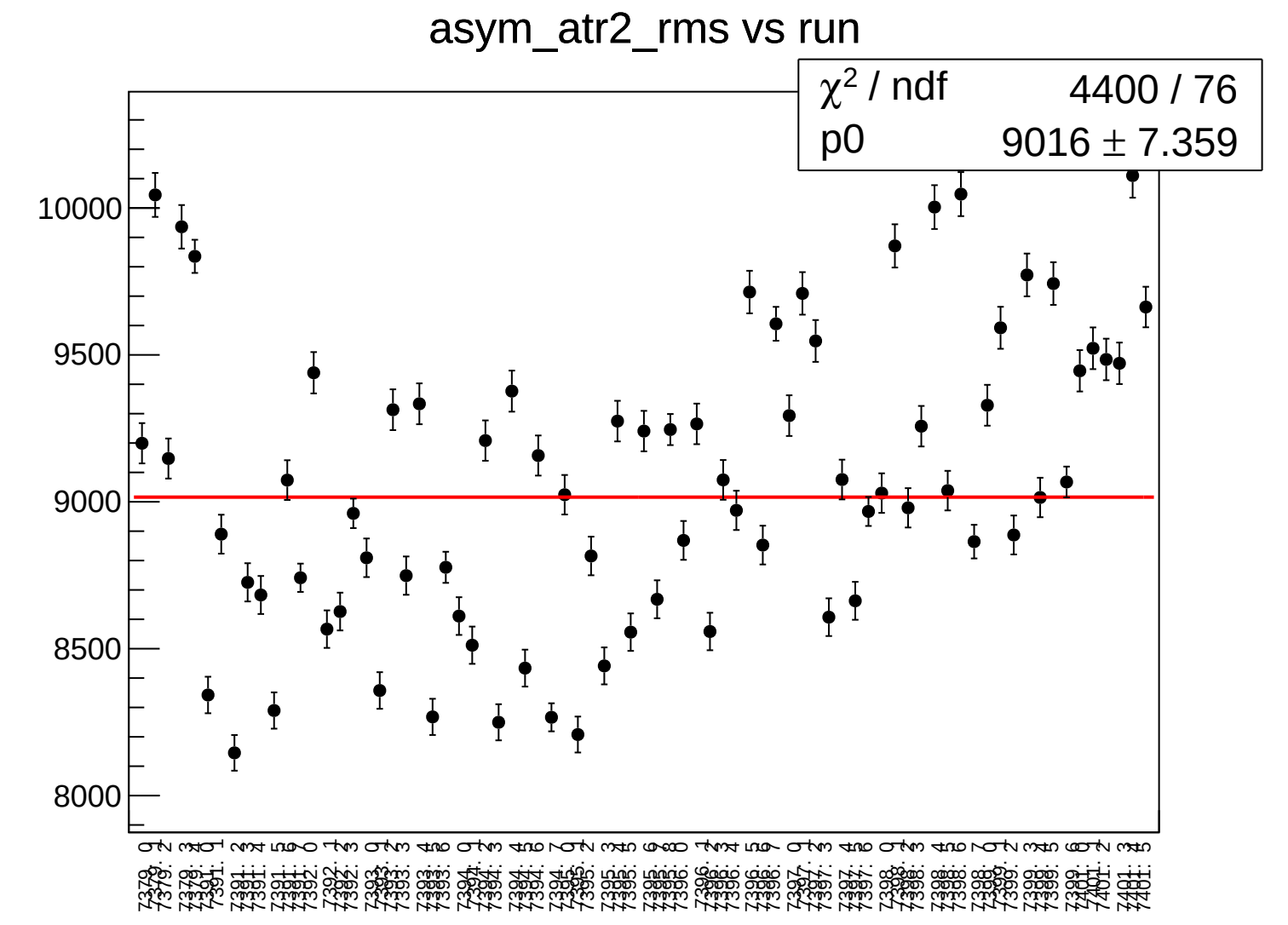

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 69.92 / 76
p0 3563 ± 9992
pull
Entries 77
Mean 108.7
Std Dev 28.43

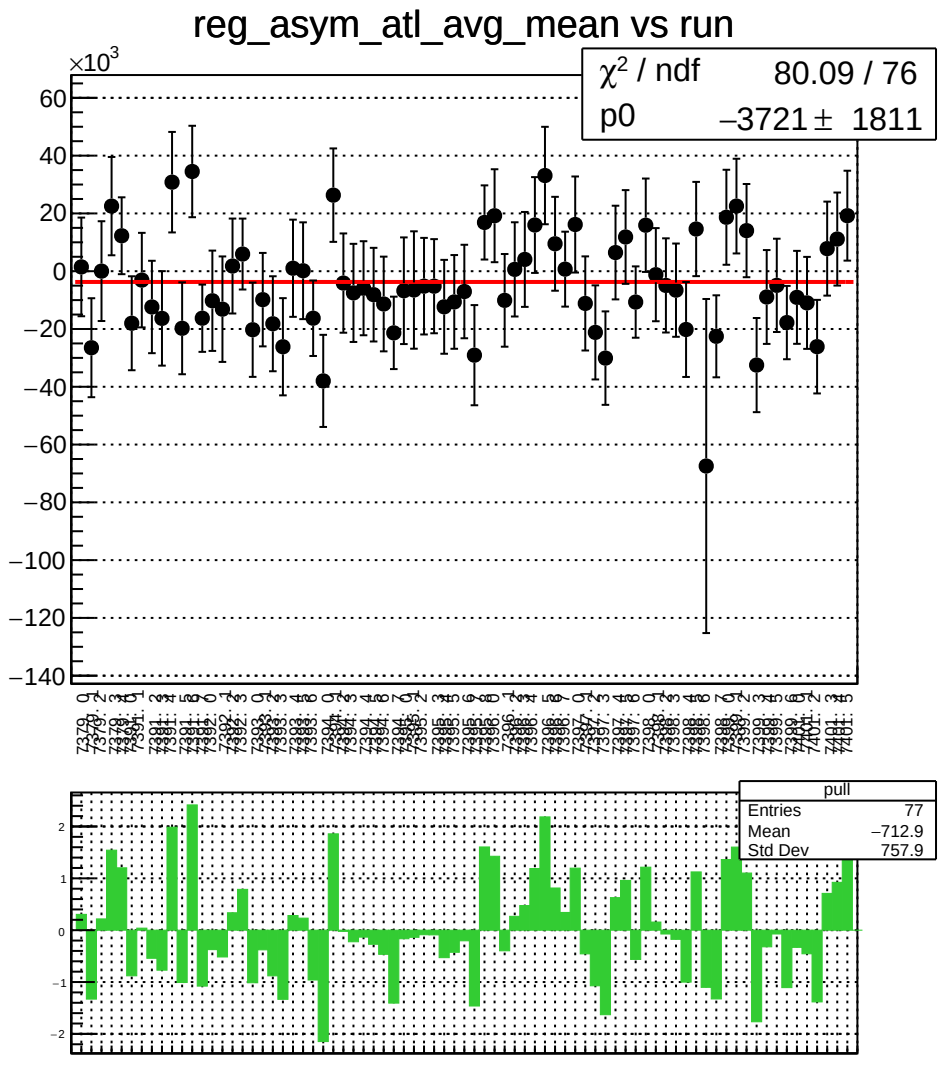

pull1D
Entries 77
Mean −0.02039
Std Dev 0.9527

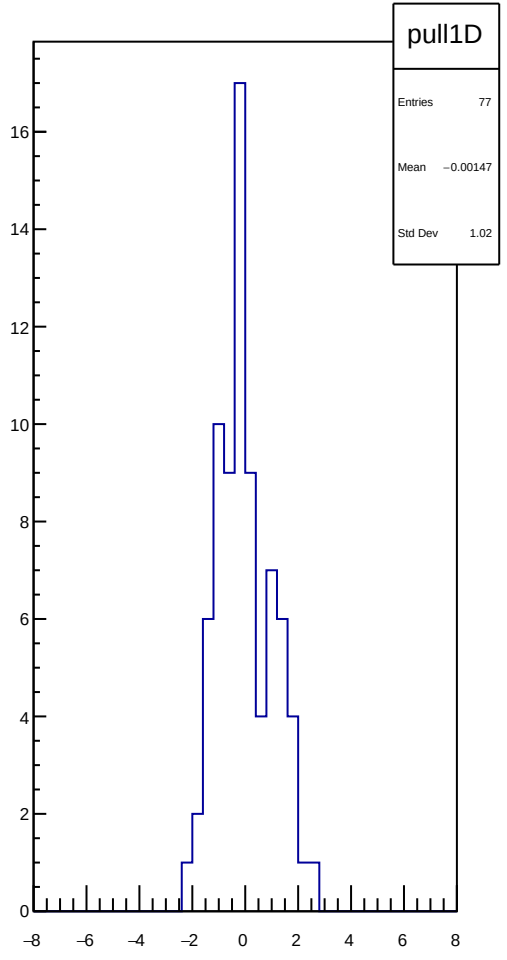

asym_atr2_correction_rms vs run
χ^2 / ndf 5099 / 76
p0 8654 ± 7.065
10000
9500
9000
8500
8000
7500

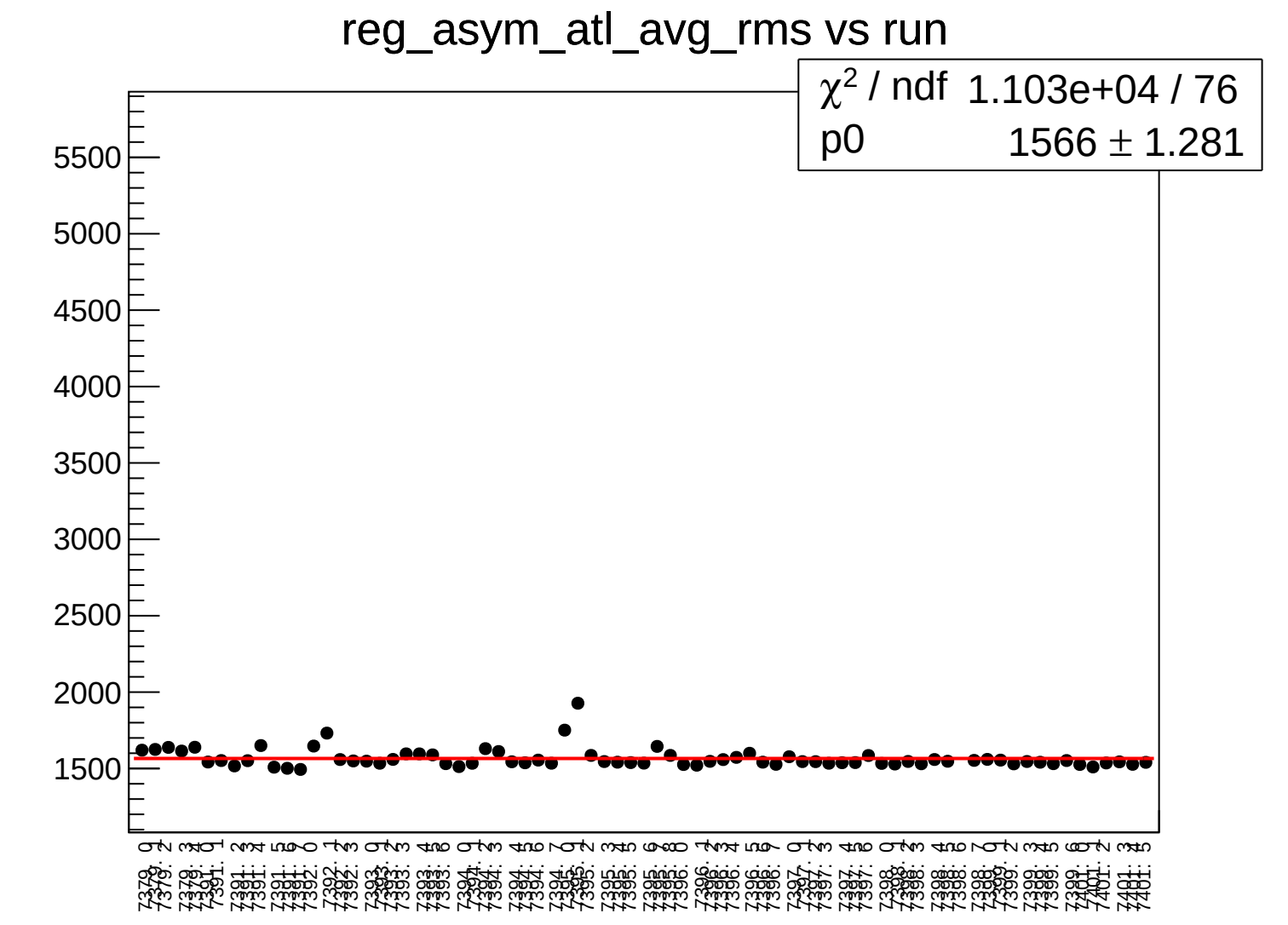

asym_atr2_mean vs run
×10^3
χ² / ndf 73.04 / 76
p0 −7580 ± 1.041e+04
pull
Entries 77
Mean 100.9
Std Dev 50.42

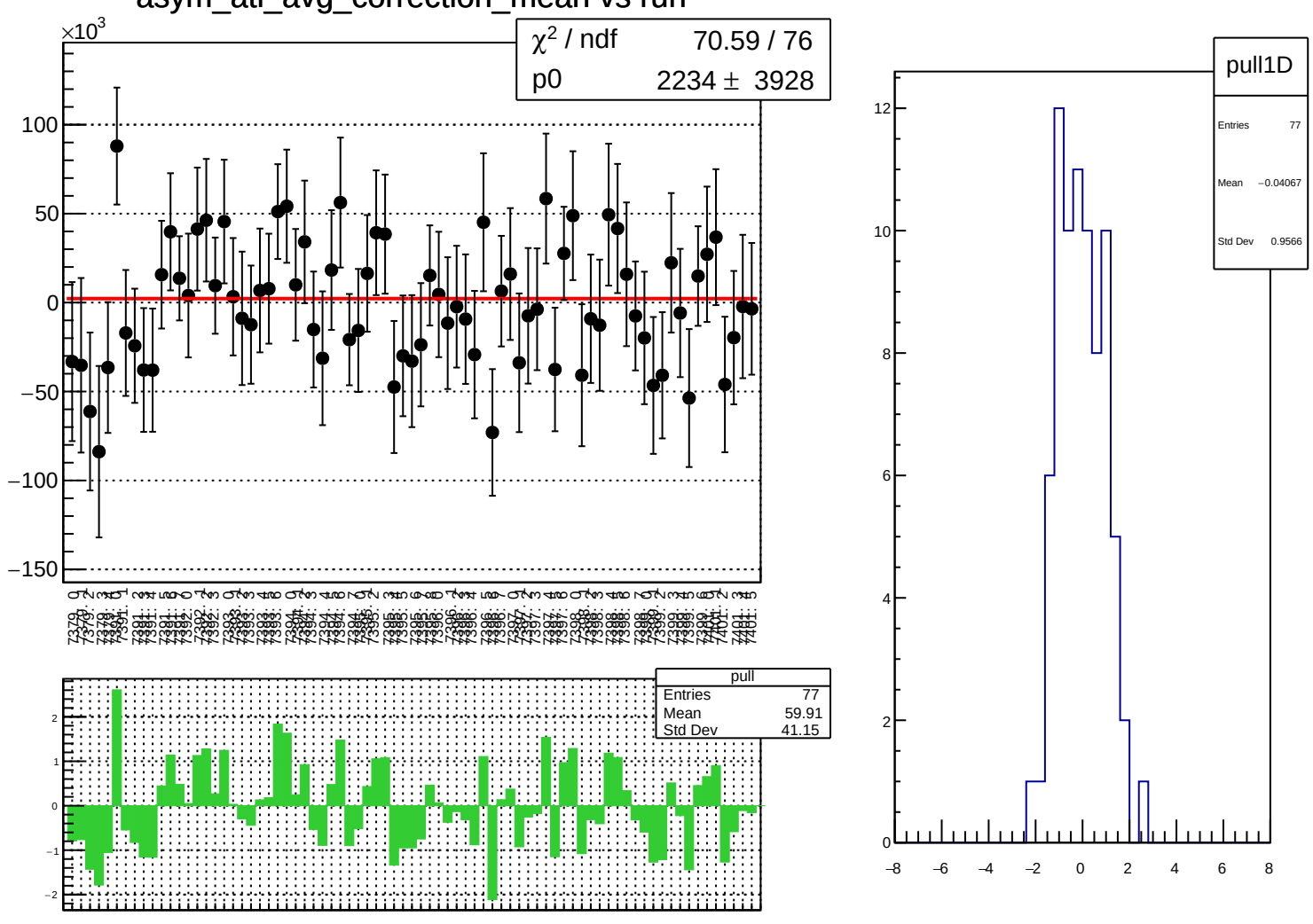

pull1D
Entries 77
Mean 0.01526
Std Dev 0.9739

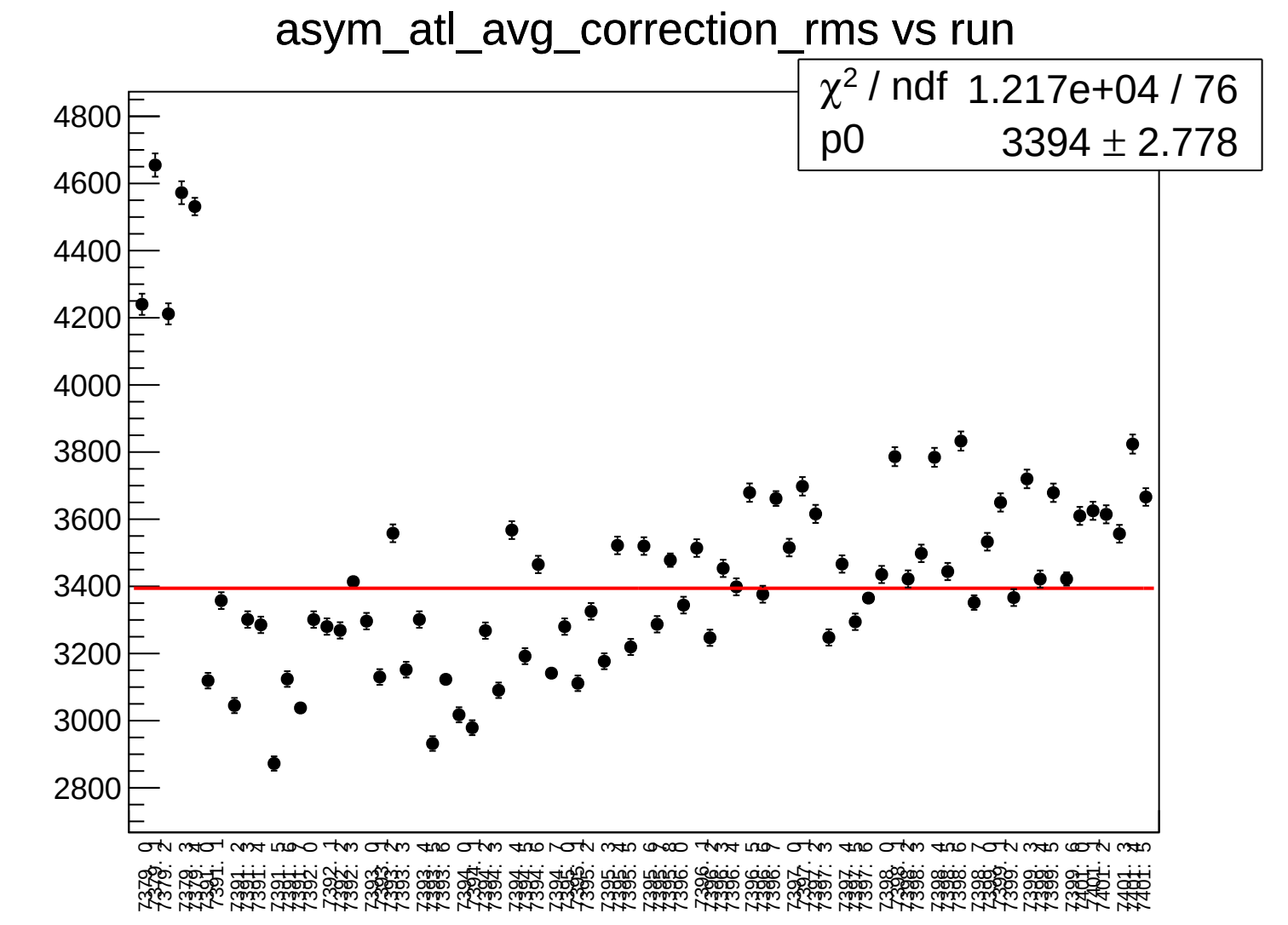

asym_atr2_rms vs run
χ^2 / ndf 4400 / 76
p0 9016 ± 7.359
10000
9500
9000
8500
8000

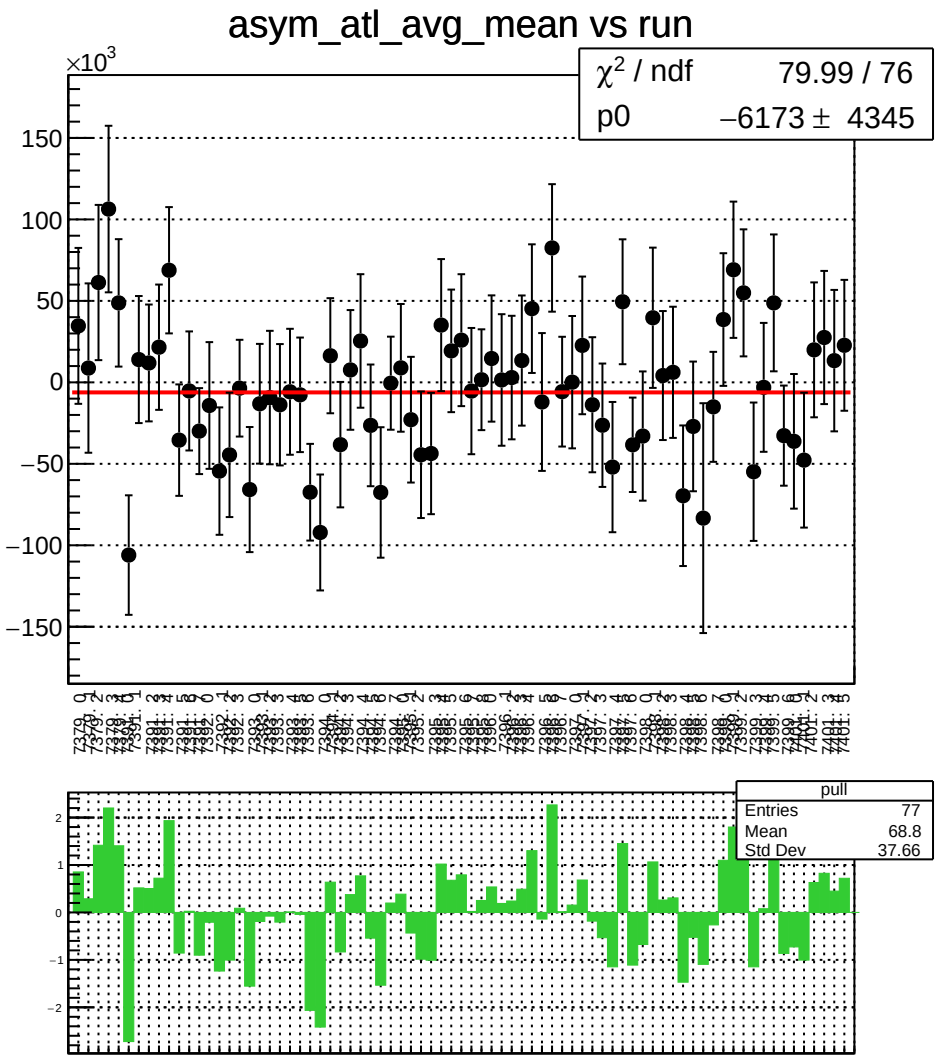

reg_asym_atl_avg_mean vs run
×10^3
χ² / ndf 80.09 / 76
p0 −3721 ± 1811
pull
Entries 77
Mean −712.9
Std Dev 757.9

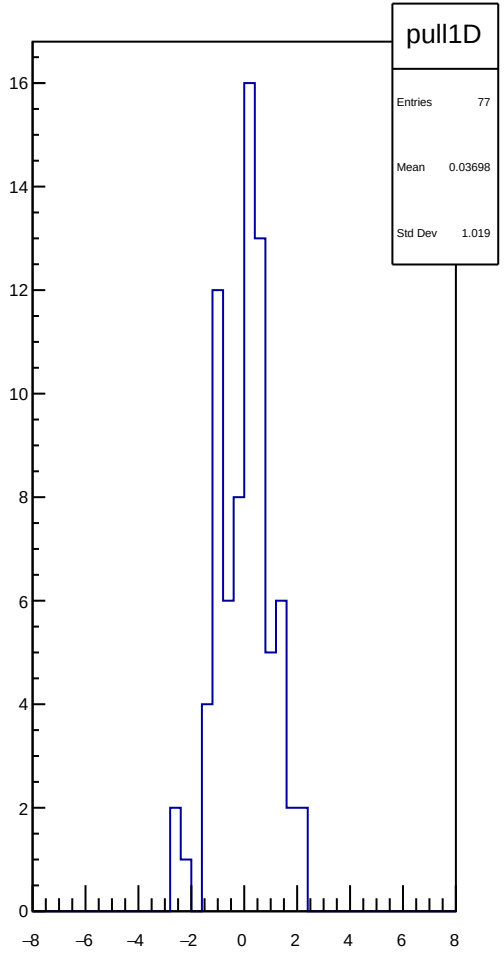

pull1D
Entries 77
Mean −0.00147
Std Dev 1.02

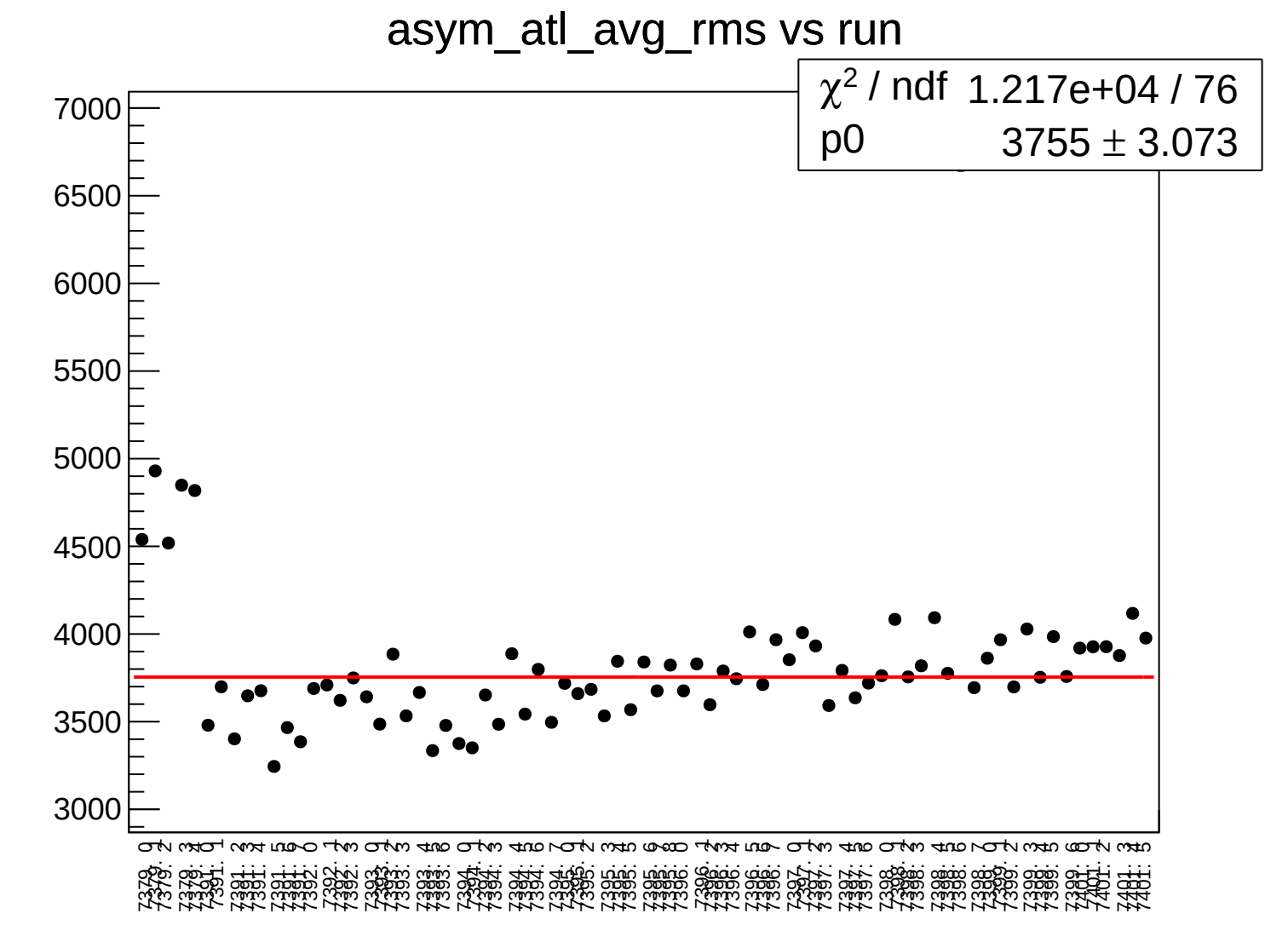

reg_asym_atl_avg_rms vs run
χ^2 / ndf 1.103e+04 / 76
p0 1566 ± 1.281
5500
5000
4500
4000
3500
3000
2500
2000
1500

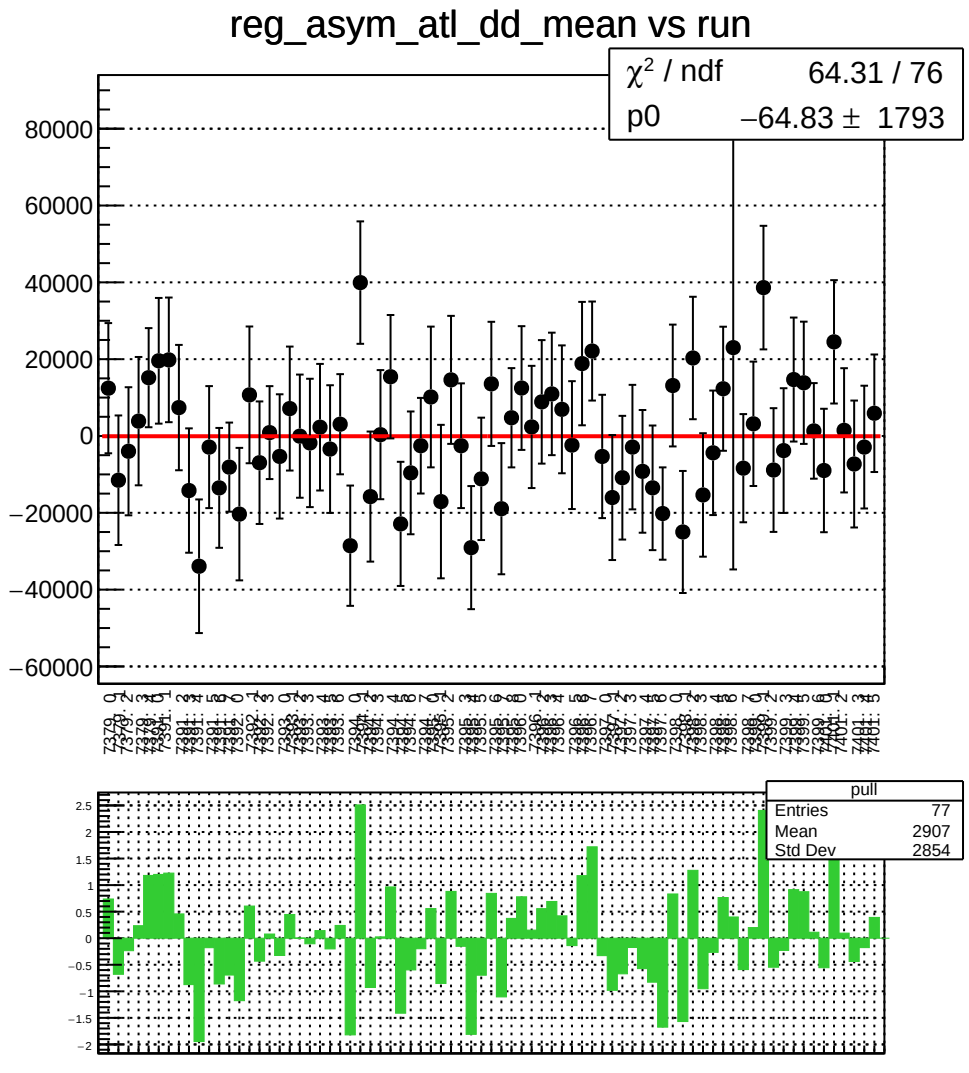

asym_atl_avg_correction_mean vs run
×10^3
χ^2 / ndf 70.59 / 76
p0 2234 ± 3928
100
50
0
−50
−100
−150
pull
Entries 77
Mean 59.91
Std Dev 41.15
2
1
0
−1
−2
pull1D
Entries 77
Mean −0.04067
Std Dev 0.9566
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

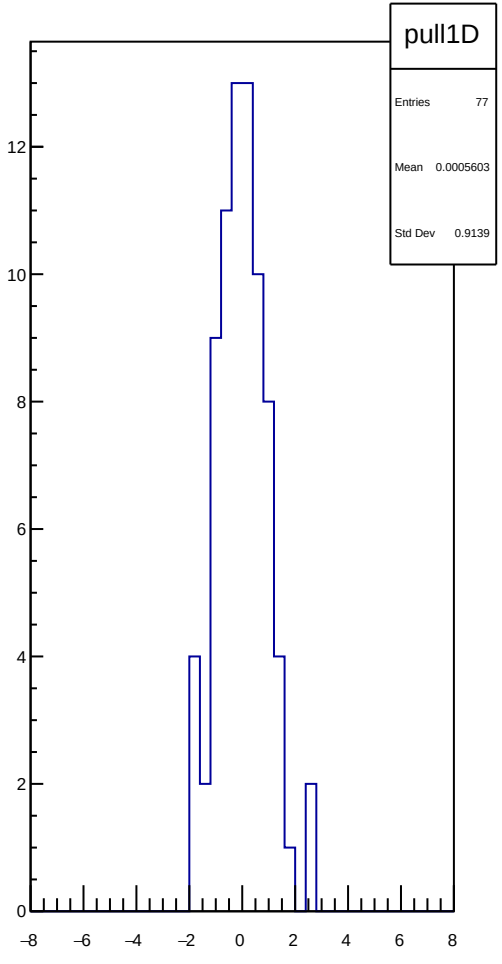

asym_atl_avg_correction_rms vs run
χ² / ndf 1.217e+04 / 76
p0 3394 ± 2.778
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

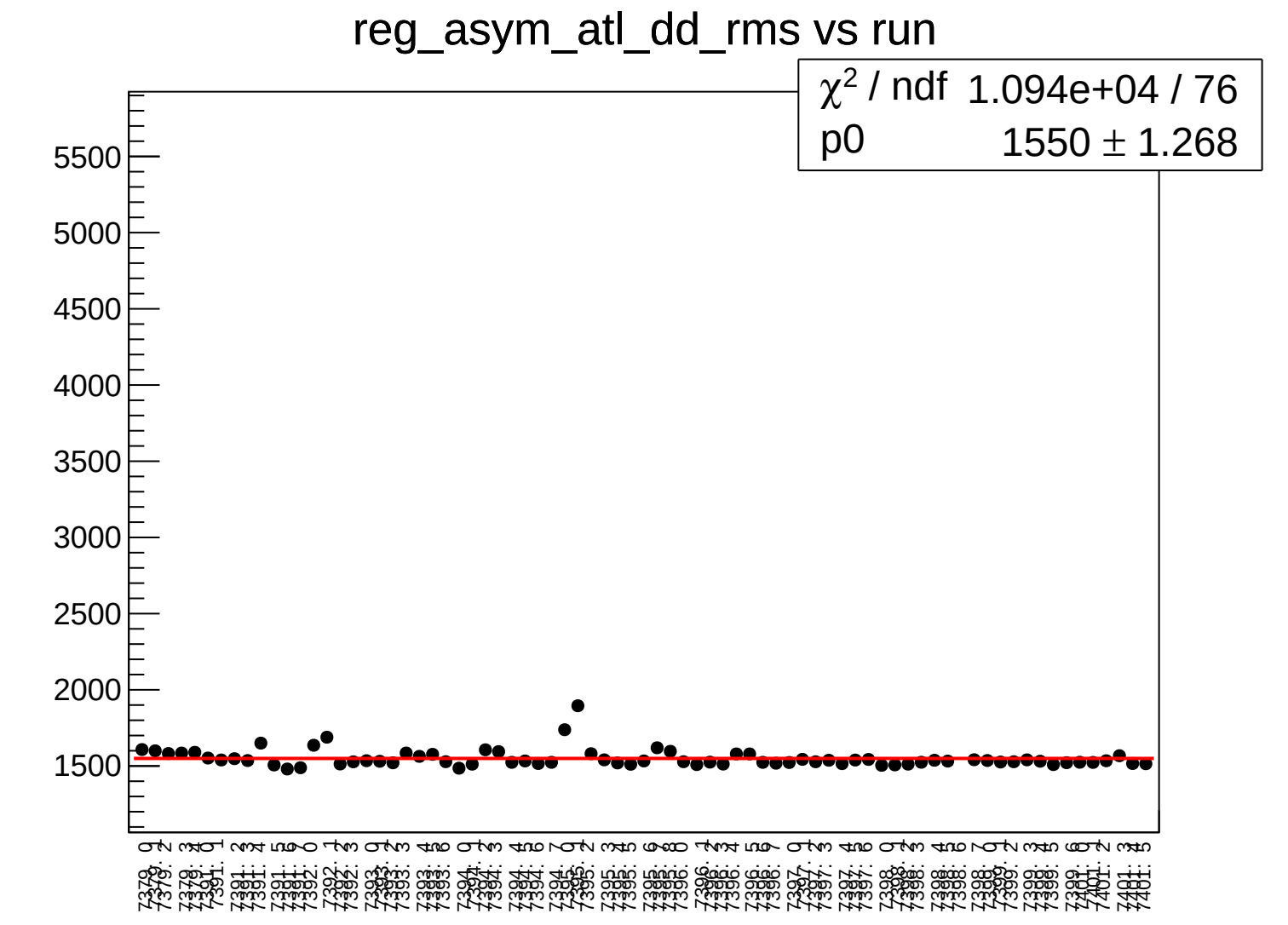

asym_atl_avg_mean vs run
×10^3
χ² / ndf 79.99 / 76
p0 −6173 ± 4345
150
100
50
0
−50
−100
−150
pull
Entries 77
Mean 68.8
Std Dev 37.66
2
1
0
−1
−2

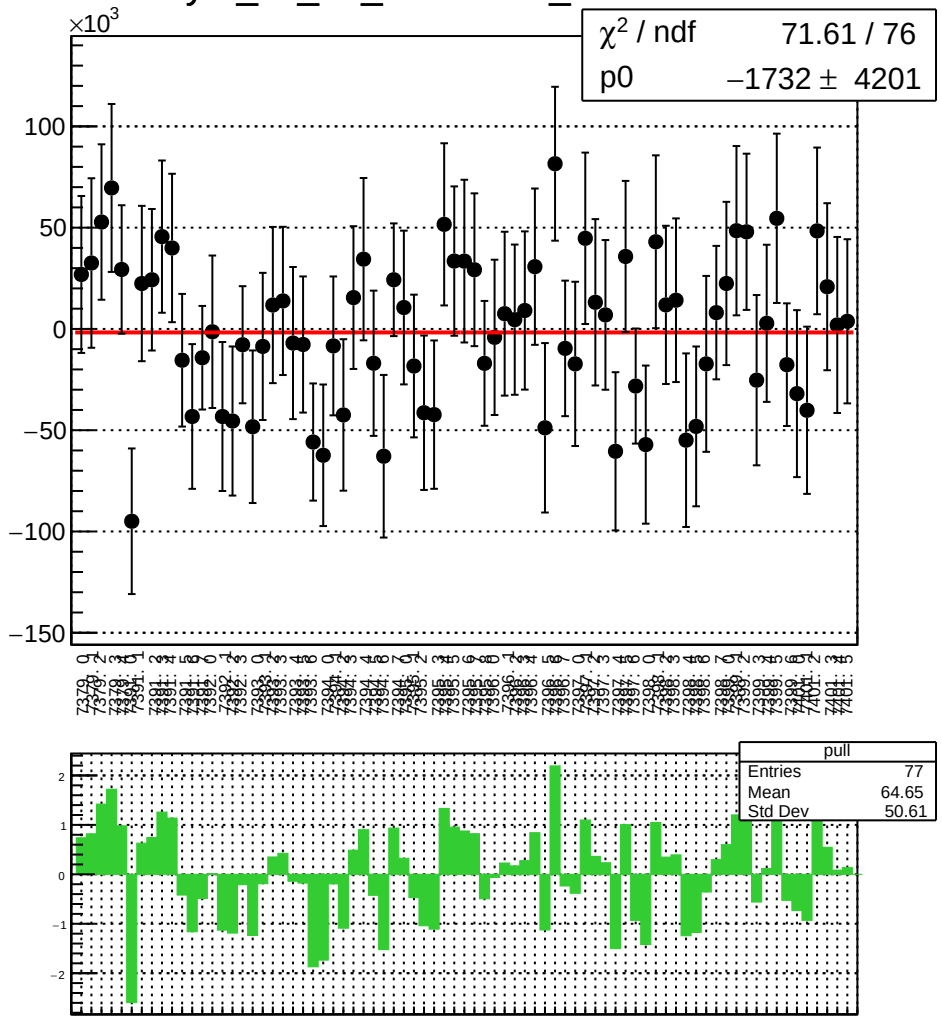

pull1D
Entries 77
Mean 0.03698
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

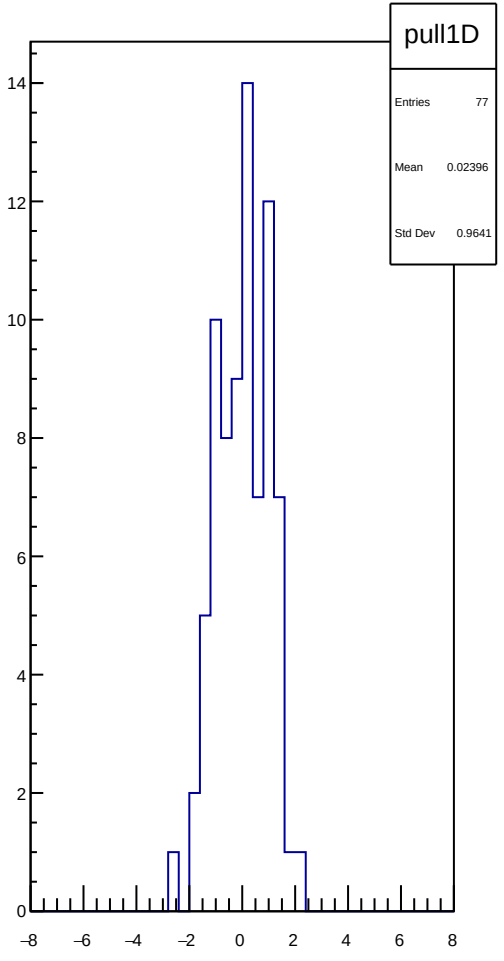

asym_atl_avg_rms vs run
χ^2 / ndf 1.217e+04 / 76
p0 3755 ± 3.073
7000
6500
6000
5500
5000
4500
4000
3500
3000

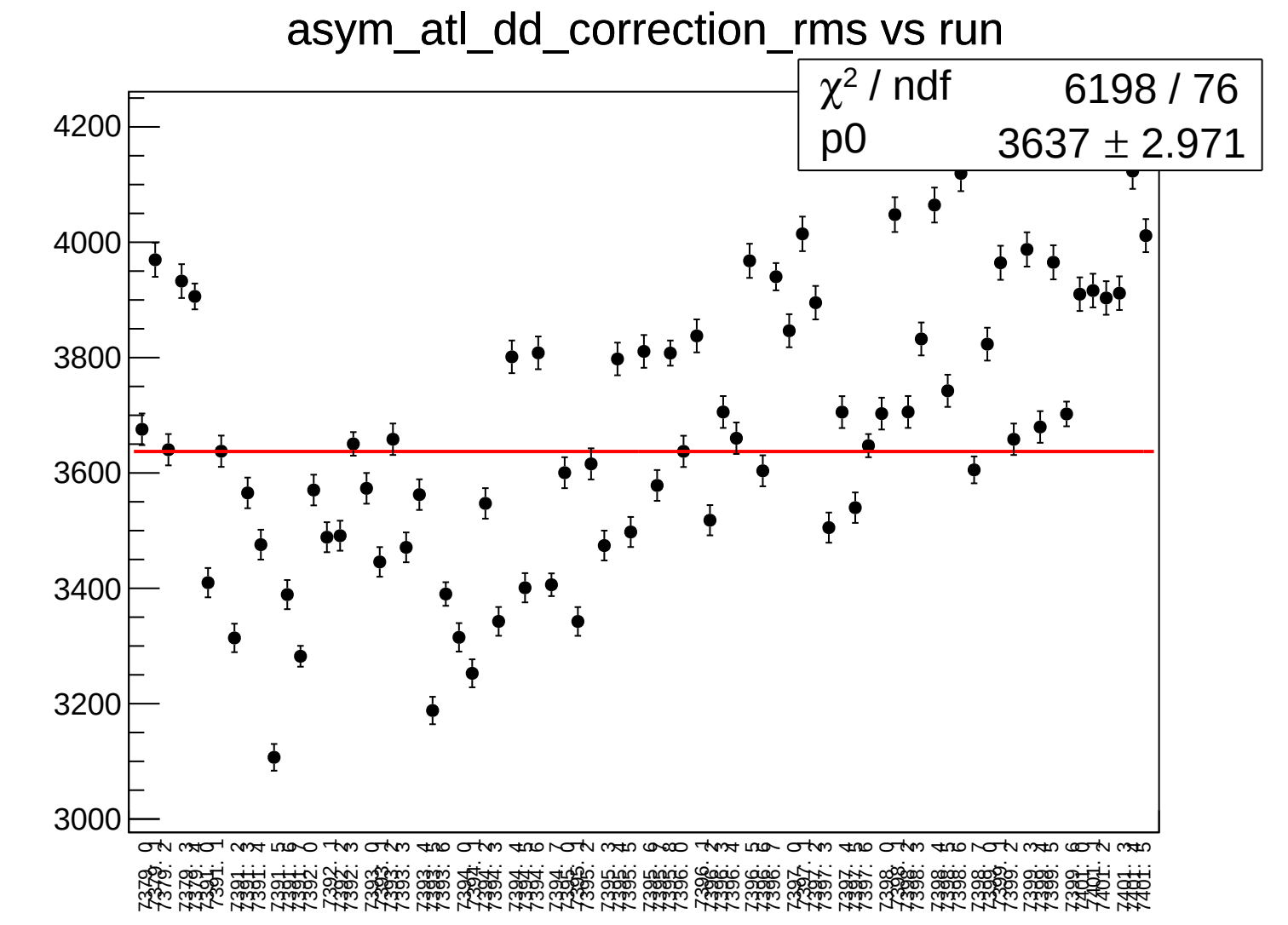

reg_asym_atl_dd_mean vs run
χ² / ndf 64.31 / 76
p0 −64.83 ± 1793
pull
Entries 77
Mean 2907
Std Dev 2854

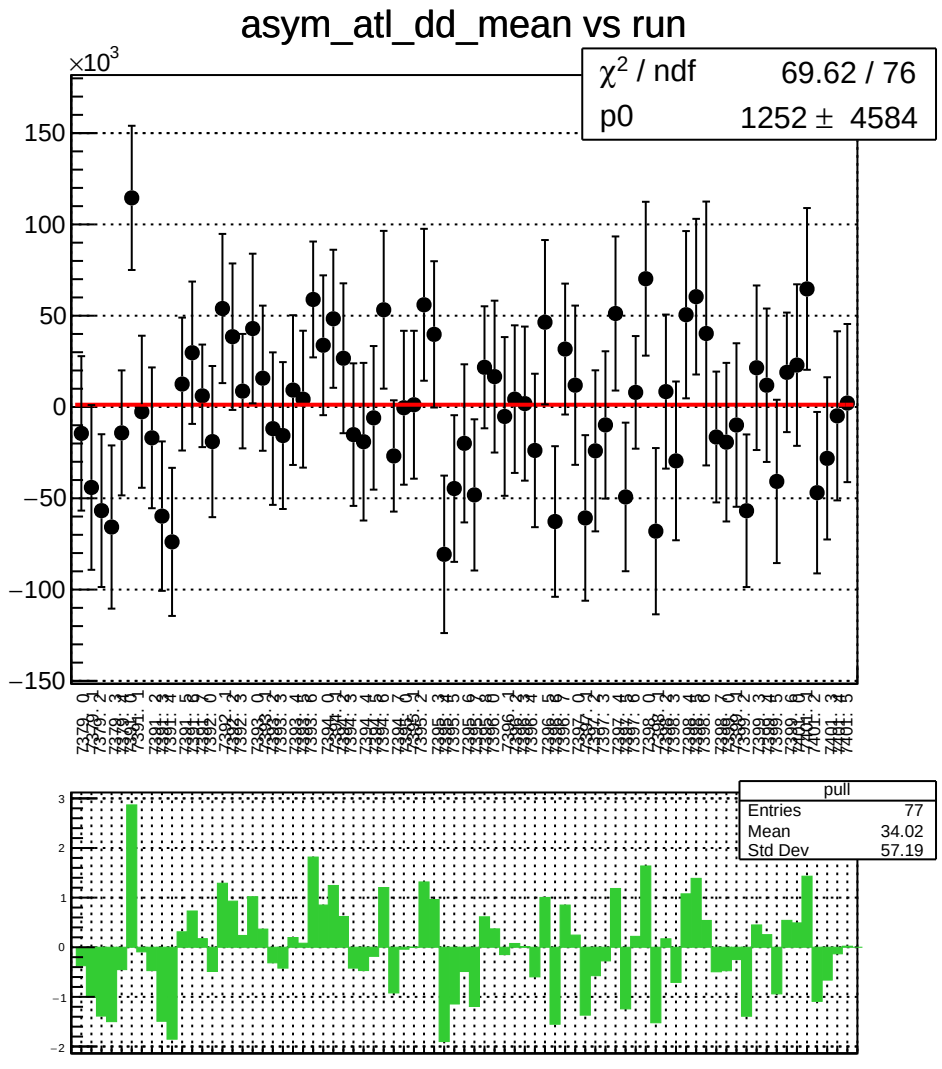

pull1D
Entries 77
Mean 0.0005603
Std Dev 0.9139

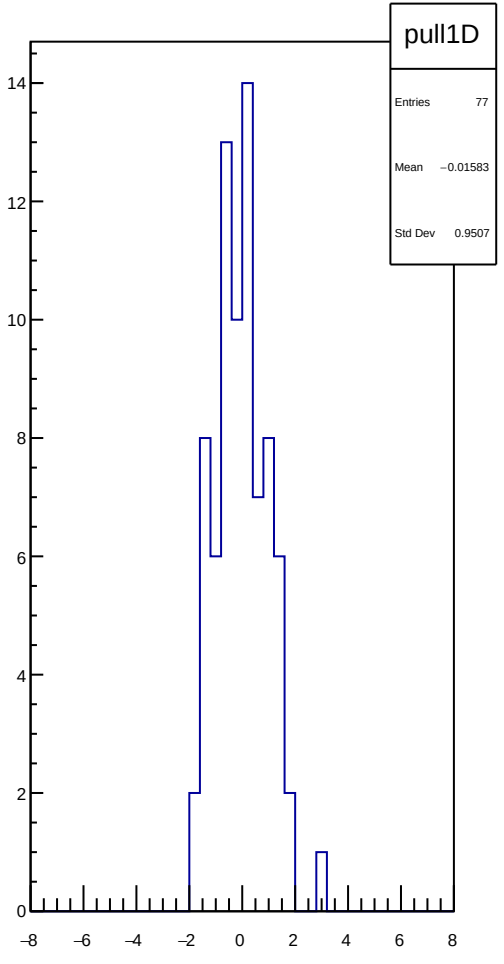

reg_asym_atl_dd_rms vs run
χ^2 / ndf 1.094e+04 / 76
p0 1550 ± 1.268
5500
5000
4500
4000
3500
3000
2500
2000
1500

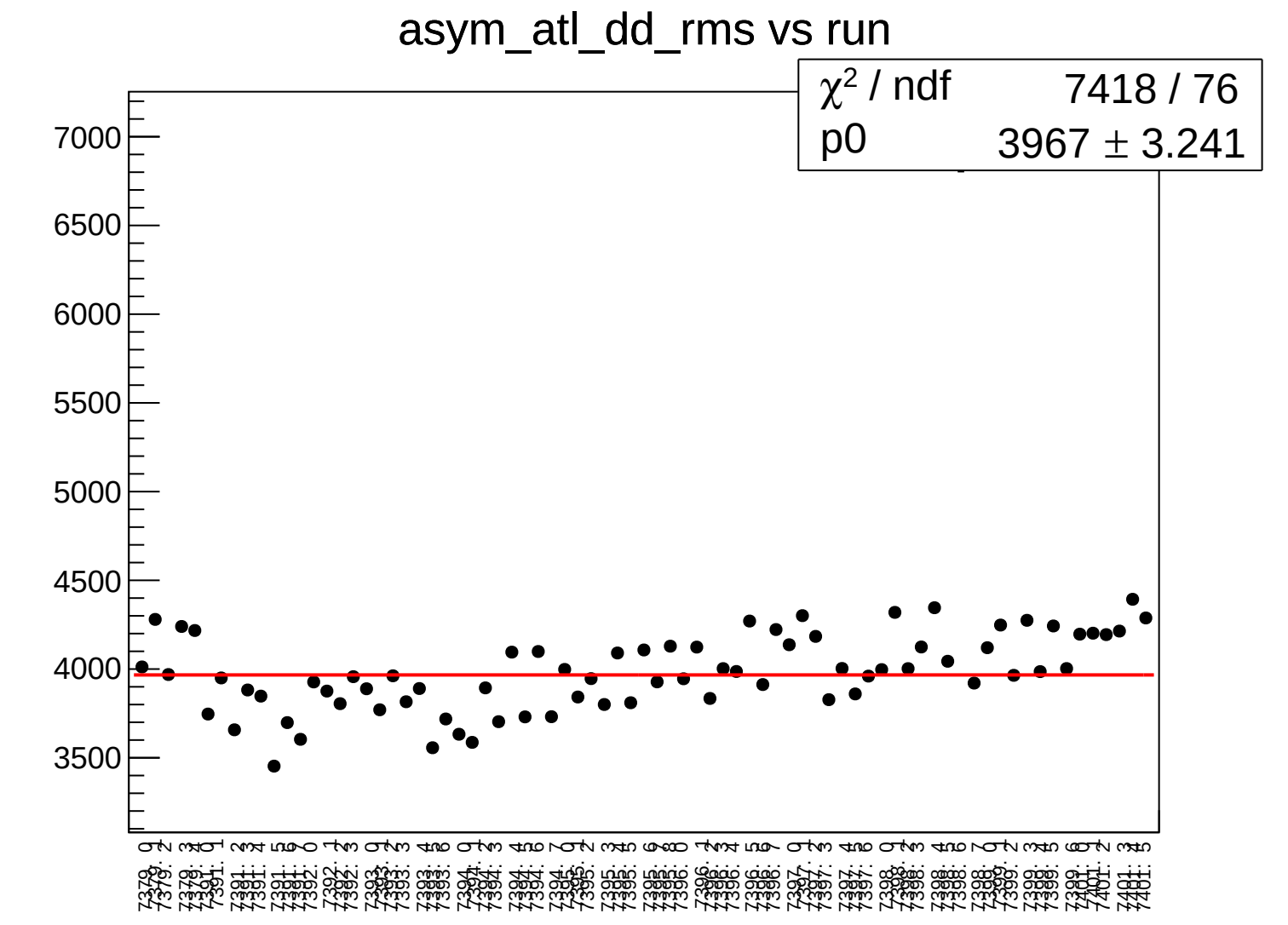

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 71.61 / 76
p0 −1732 ± 4201
100
50
0
−50
−100
−150
pull
Entries 77
Mean 64.65
Std Dev 50.61
2
1
0
−1
−2

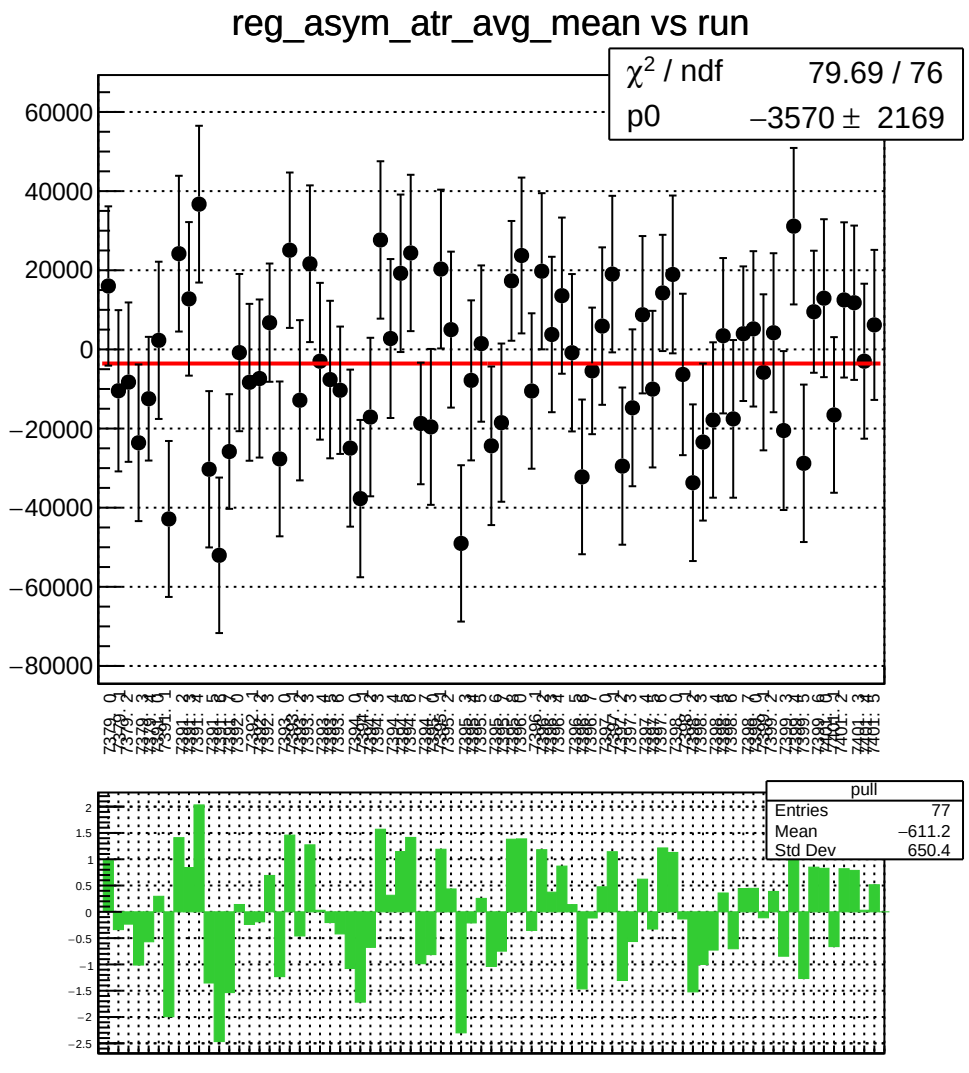

pull1D
Entries 77
Mean 0.02396
Std Dev 0.9641
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

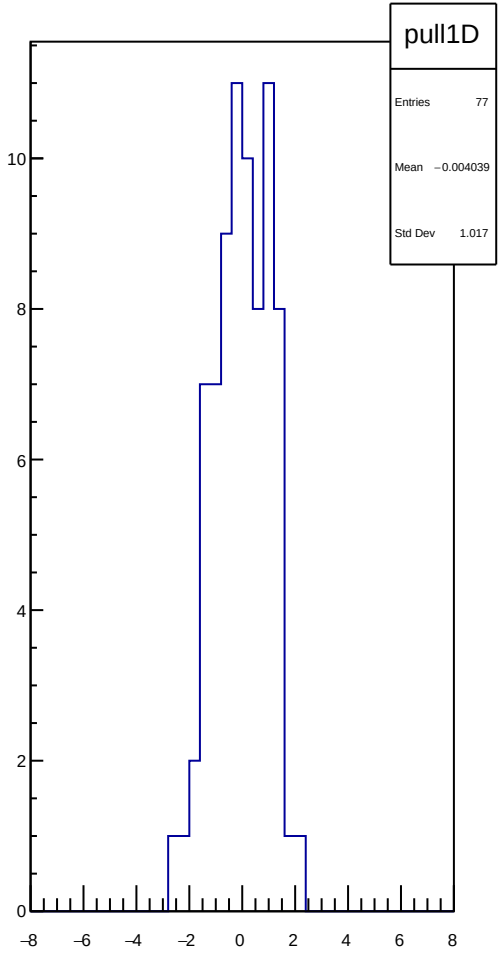

asym_atl_dd_correction_rms vs run
χ² / ndf 6198 / 76
p0 3637 ± 2.971
4200
4000
3800
3600
3400
3200
3000

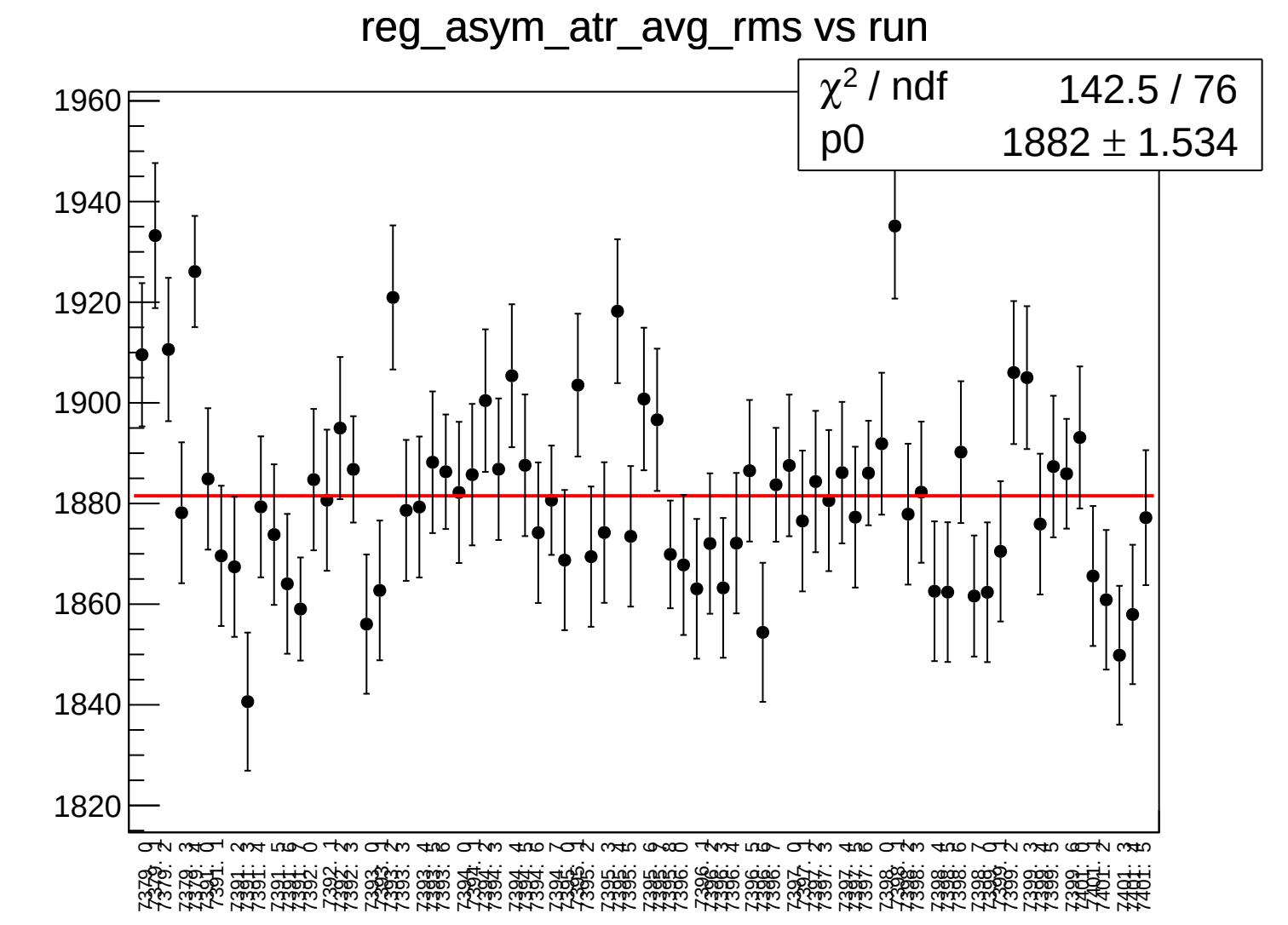

asym_atl_dd_mean vs run
×10^3
χ² / ndf 69.62 / 76
p0 1252 ± 4584
150
100
50
0
−50
−100
−150
pull
Entries 77
Mean 34.02
Std Dev 57.19
3
2
1
0
−1
−2

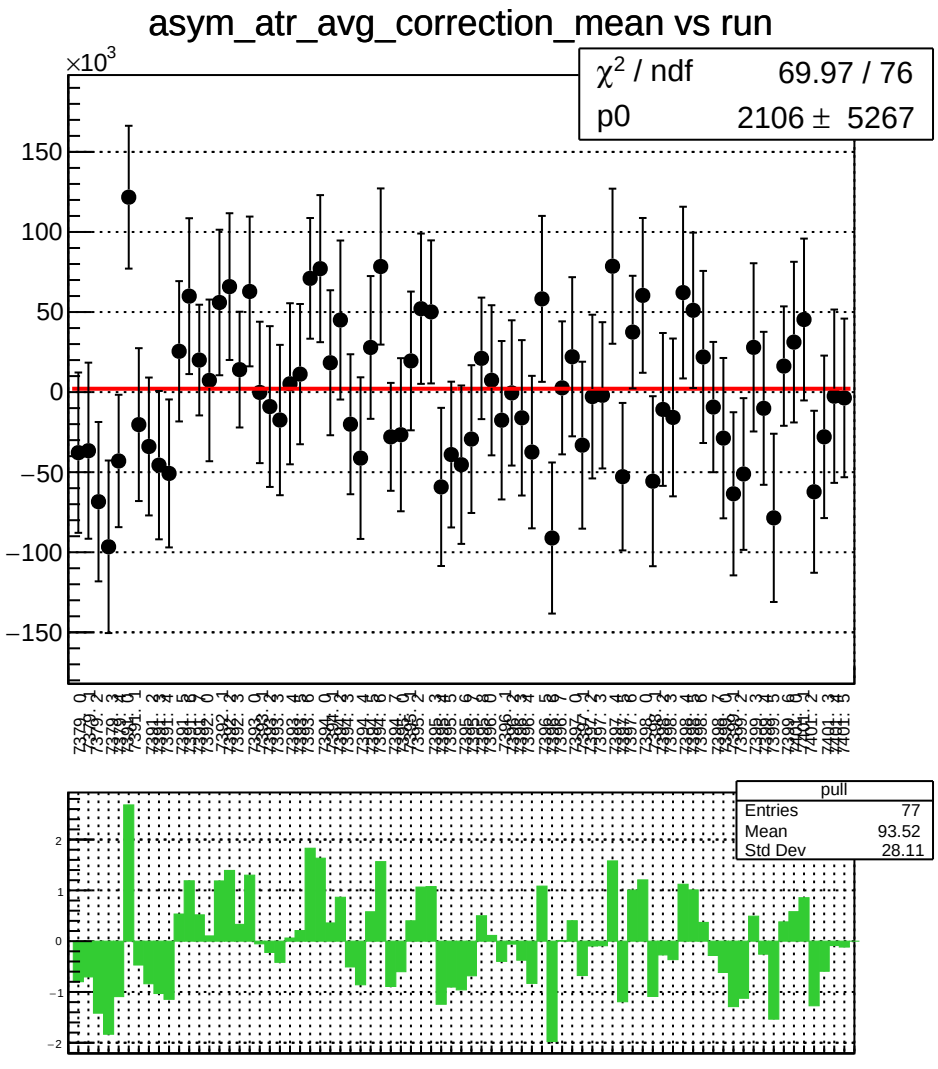

pull1D
Entries 77
Mean −0.01583
Std Dev 0.9507
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

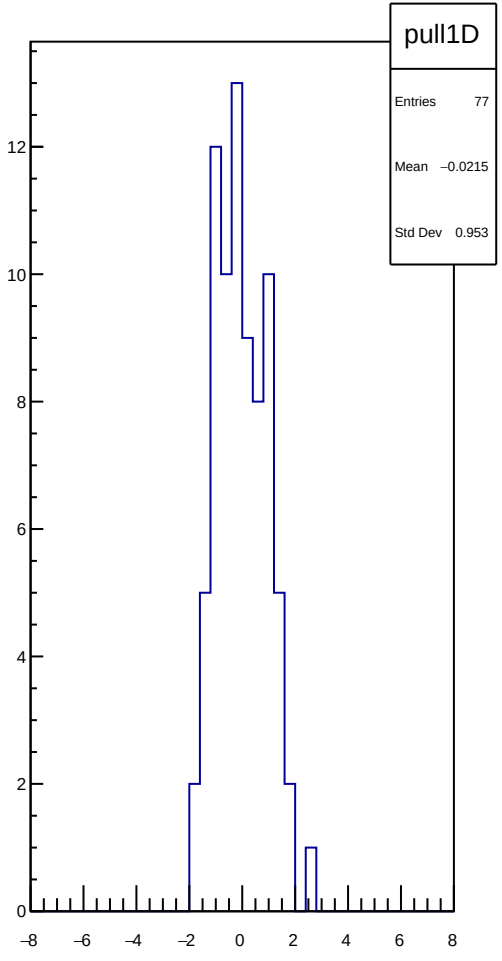

asym_atl_dd_rms vs run
χ^2 / ndf 7418 / 76
p0 3967 ± 3.241
7000
6500
6000
5500
5000
4500
4000
3500

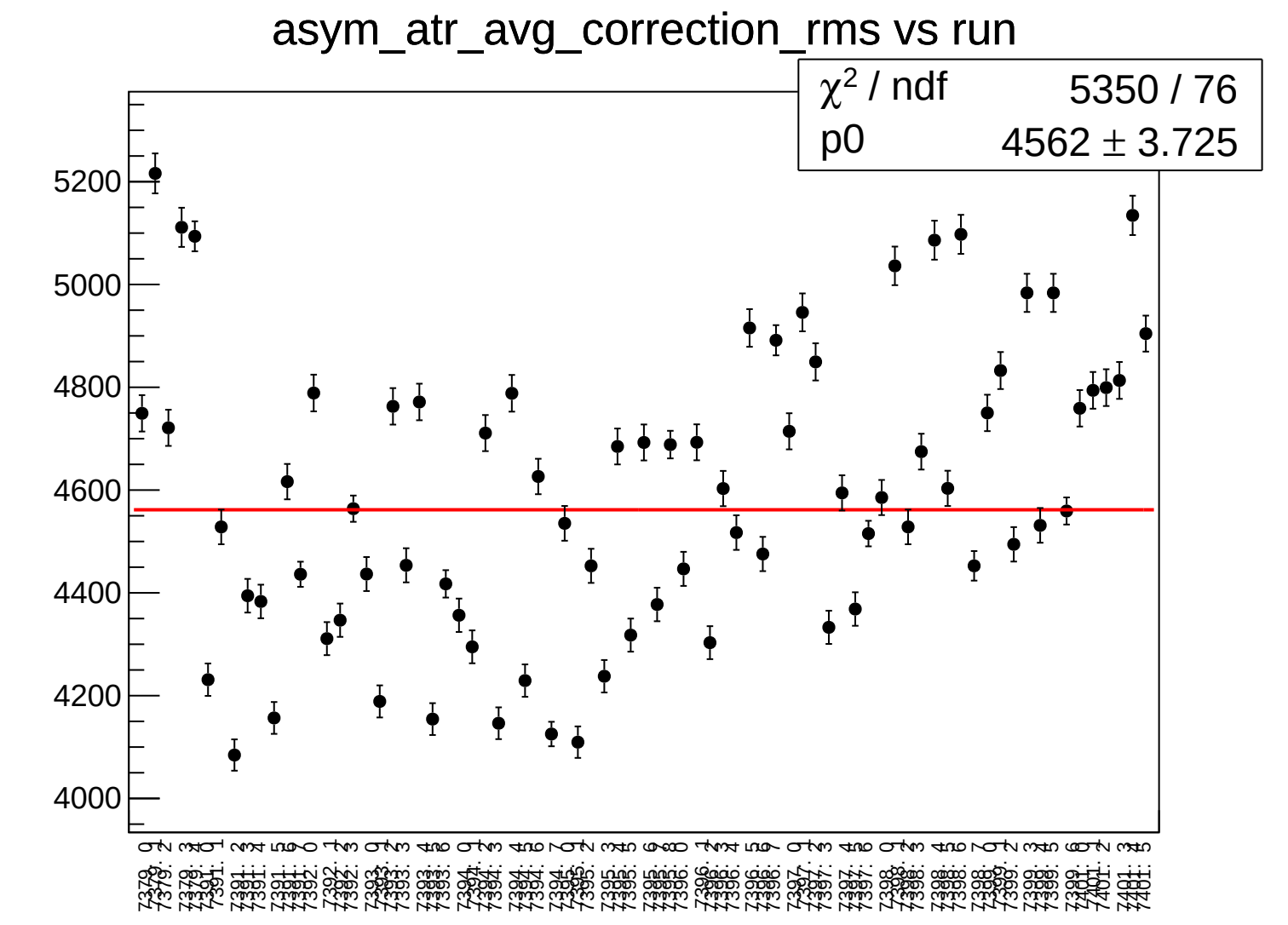

reg_asym_atr_avg_mean vs run
χ² / ndf 79.69 / 76
p0 −3570 ± 2169
pull
Entries 77
Mean −611.2
Std Dev 650.4

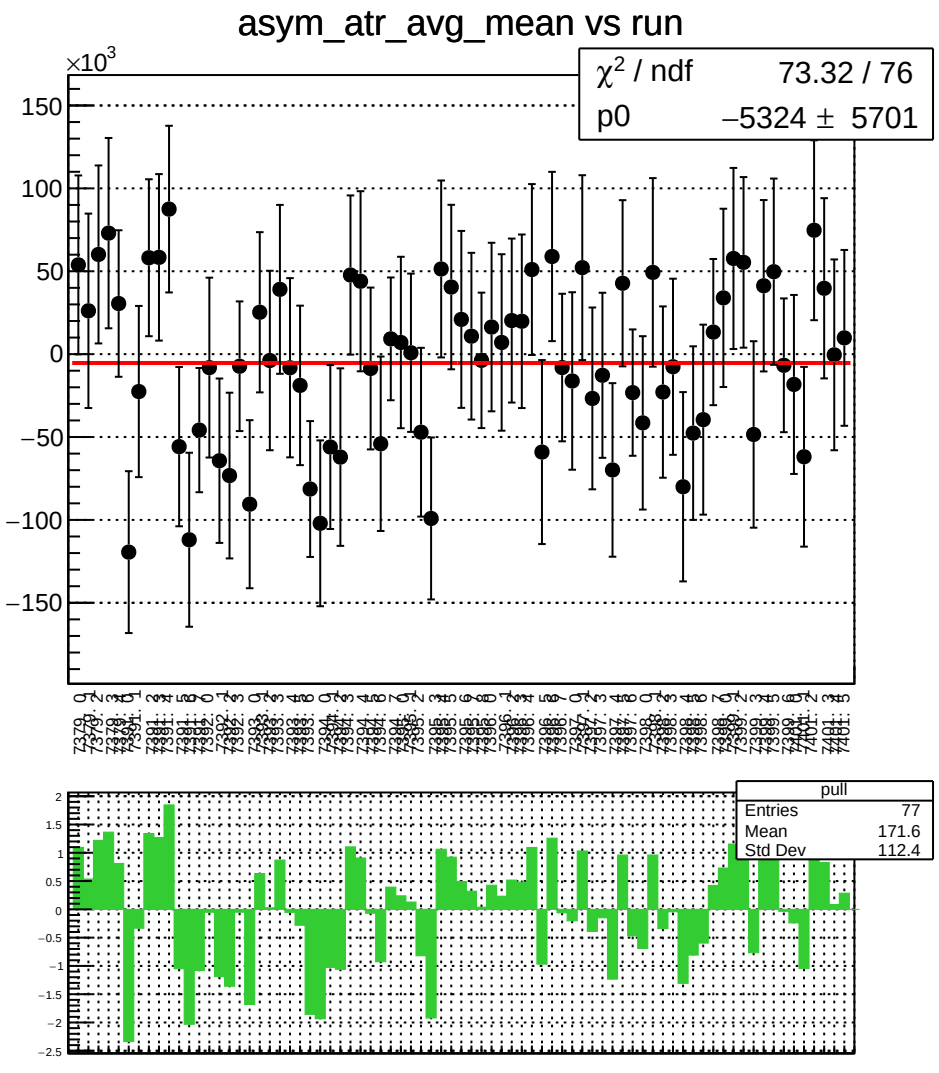

pull1D
Entries 77
Mean −0.004039
Std Dev 1.017

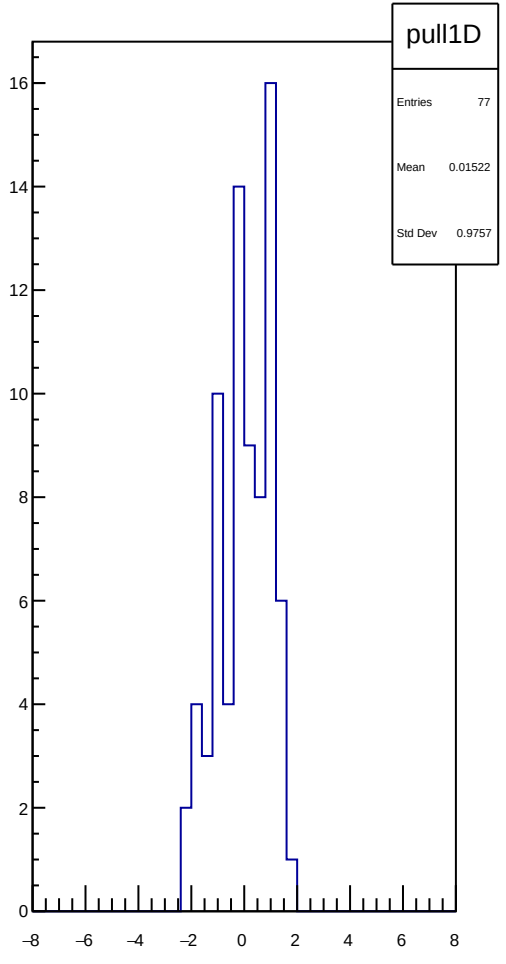

reg_asym_atr_avg_rms vs run
χ^2 / ndf 142.5 / 76
p0 1882 ± 1.534
1960
1940
1920
1900
1880
1860
1840
1820

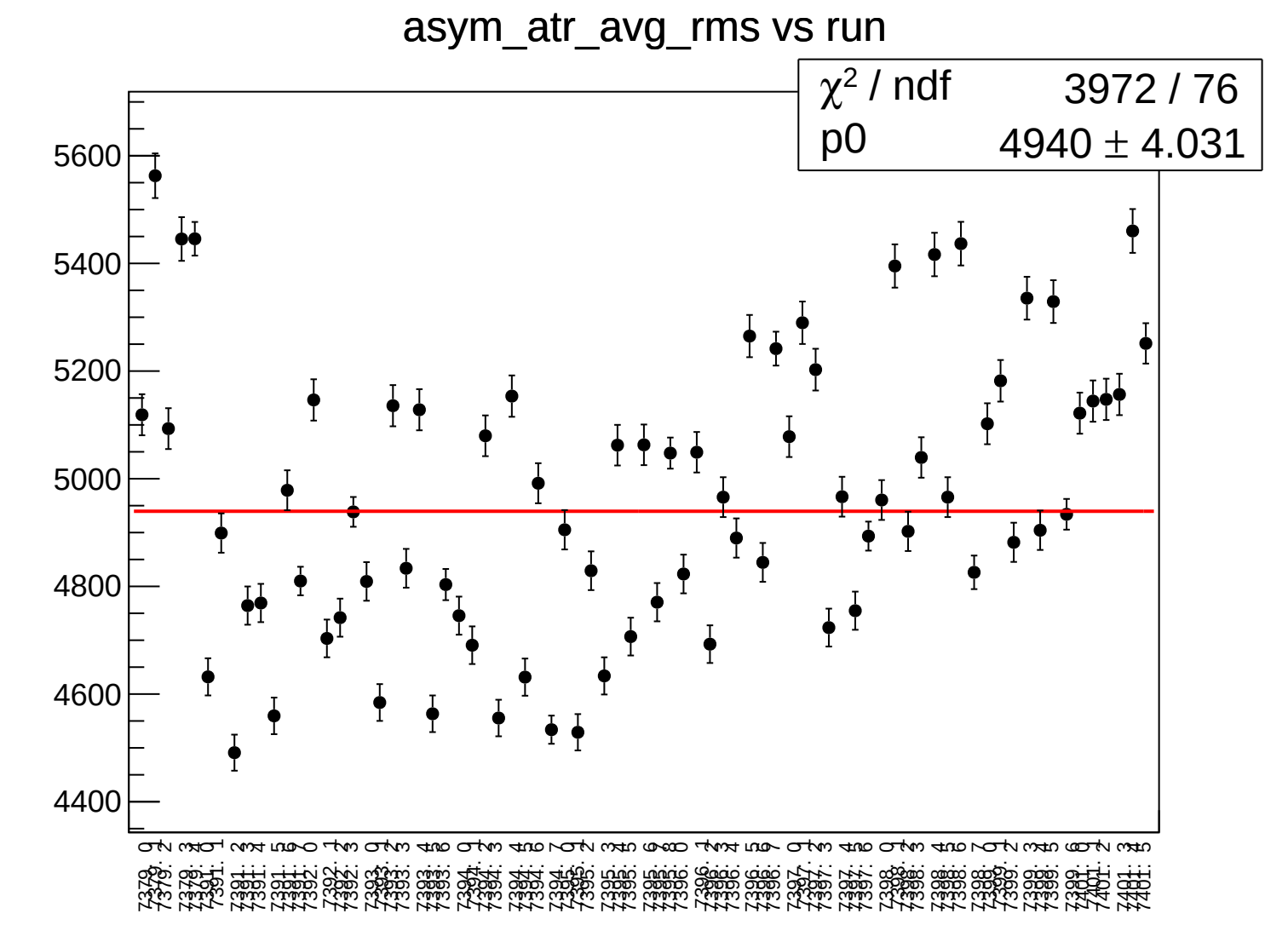

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 69.97 / 76
p0 2106 ± 5267
150
100
50
0
−50
−100
−150
pull
Entries 77
Mean 93.52
Std Dev 28.11
2
1
0
−1
−2

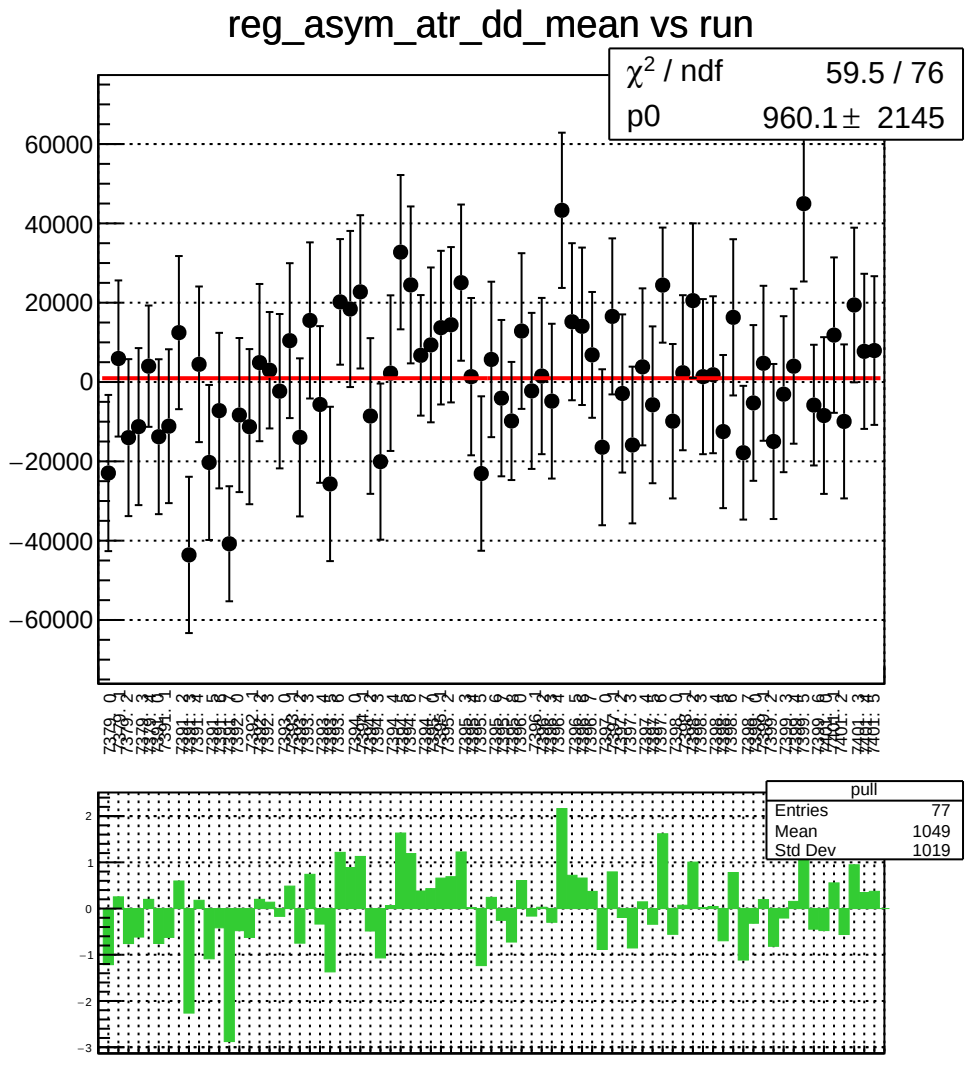

pull1D
Entries 77
Mean −0.0215
Std Dev 0.953
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

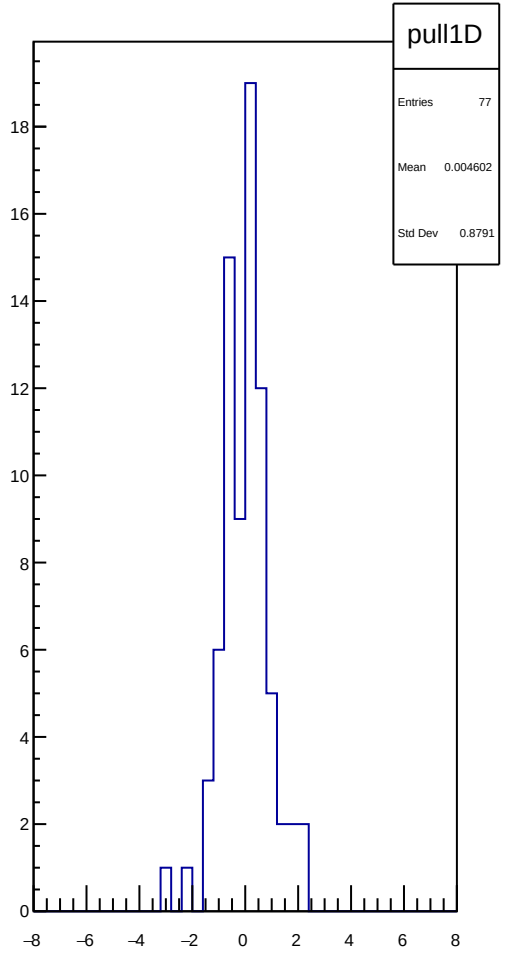

asym_atr_avg_correction_rms vs run
χ² / ndf 5350 / 76
p0 4562 ± 3.725
5200
5000
4800
4600
4400
4200
4000

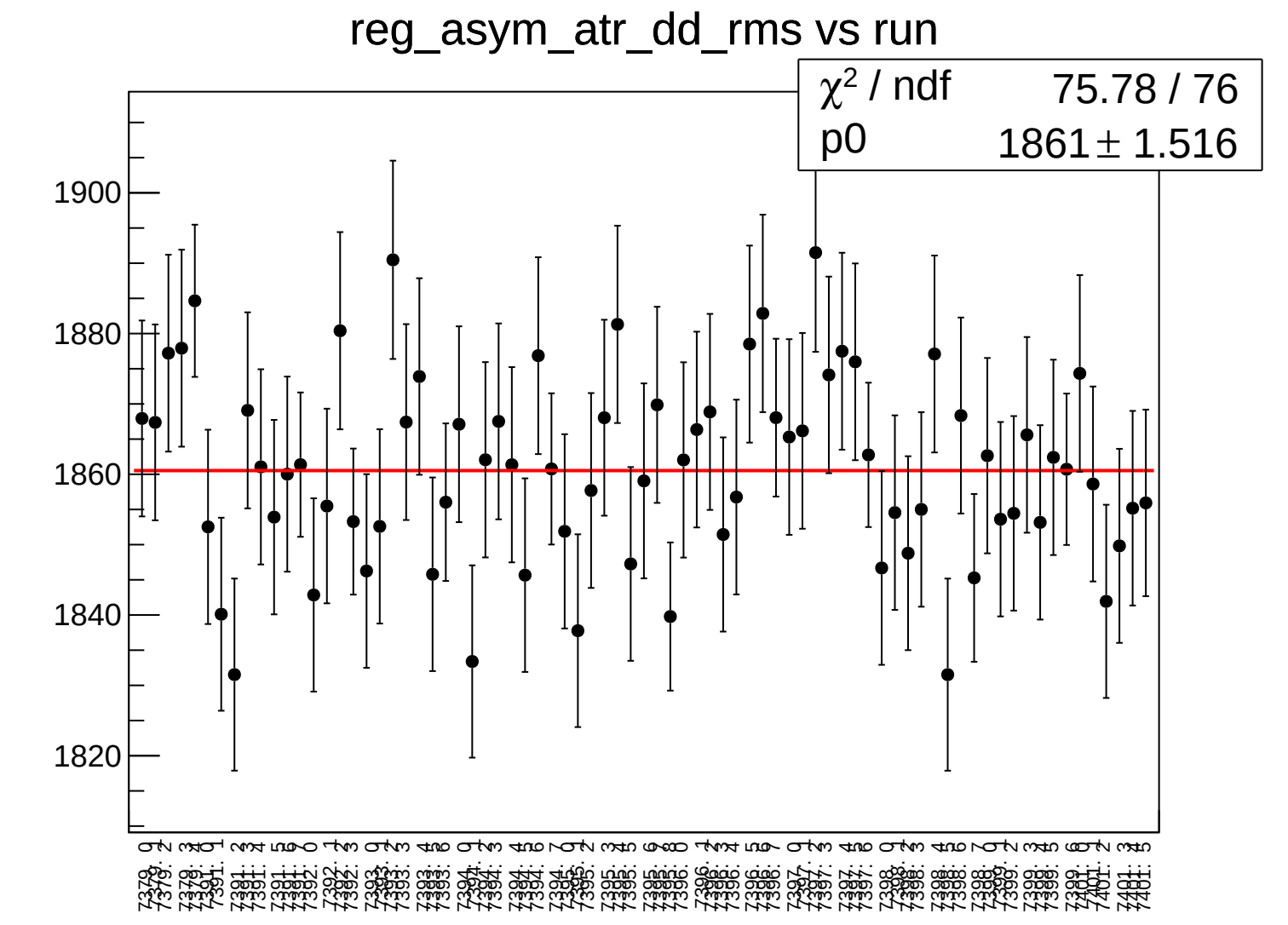

asym_atr_avg_mean vs run
×10^3
χ² / ndf 73.32 / 76
p0 −5324 ± 5701
150
100
50
0
−50
−100
−150
pull
Entries 77
Mean 171.6
Std Dev 112.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

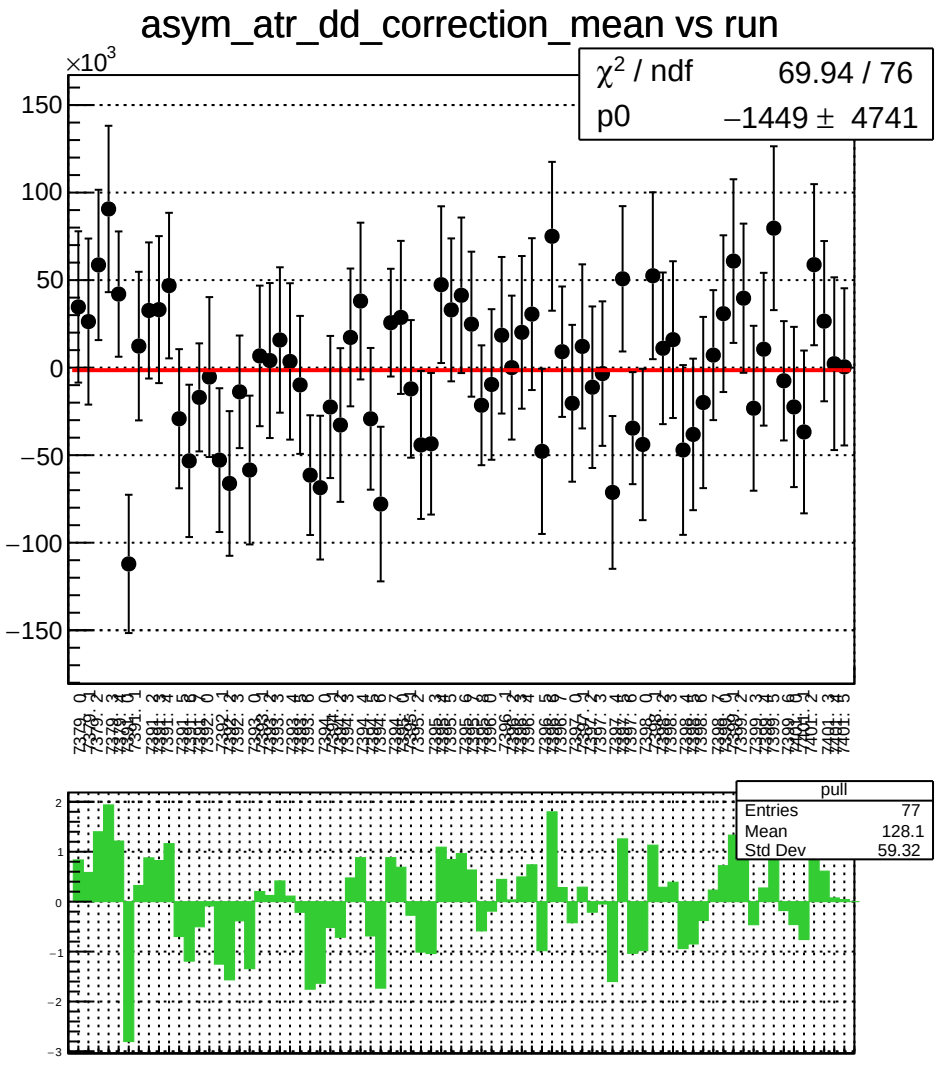

pull1D
Entries 77
Mean 0.01522
Std Dev 0.9757
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

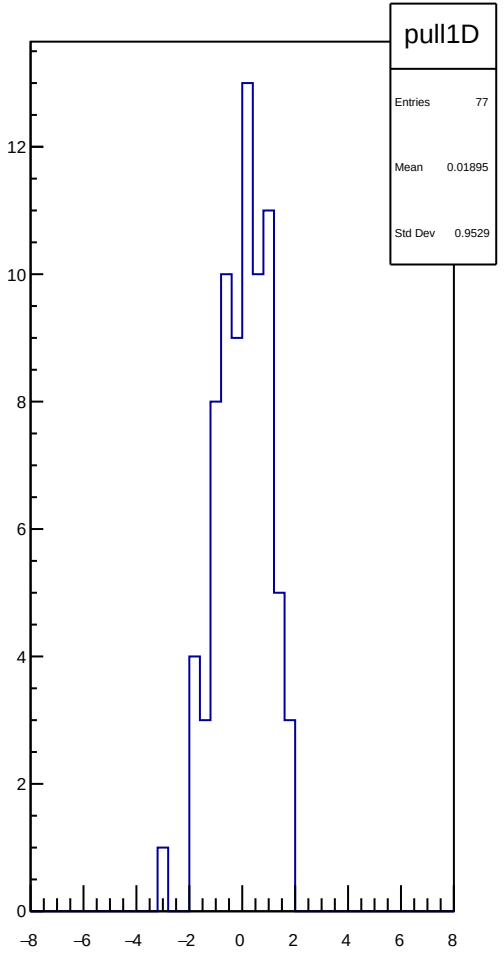

asym_atr_avg_rms vs run
χ² / ndf 3972 / 76
p0 4940 ± 4.031
5600
5400
5200
5000
4800
4600
4400

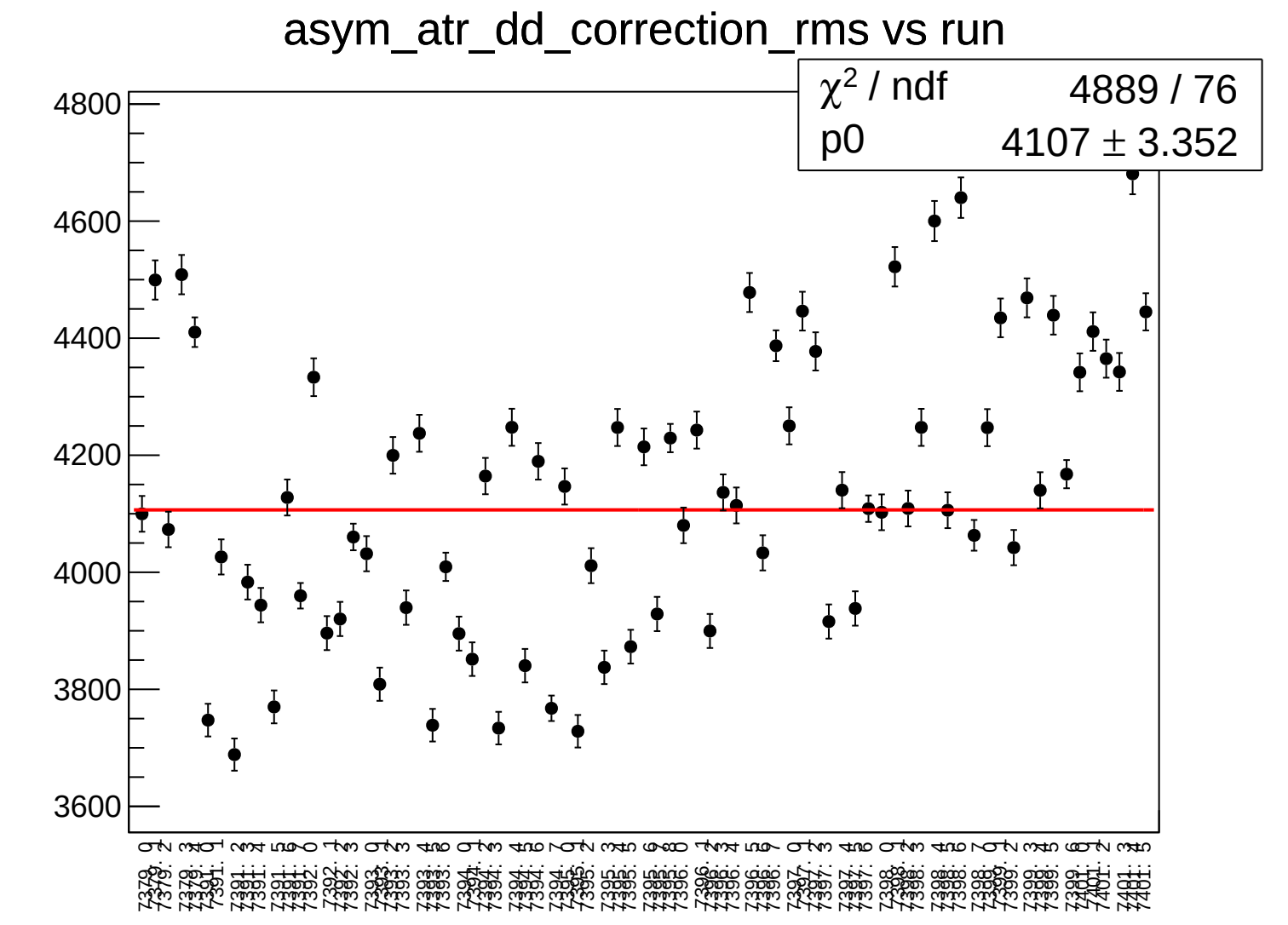

reg_asym_atr_dd_mean vs run
χ² / ndf 59.5 / 76
p0 960.1 ± 2145
pull
Entries 77
Mean 1049
Std Dev 1019

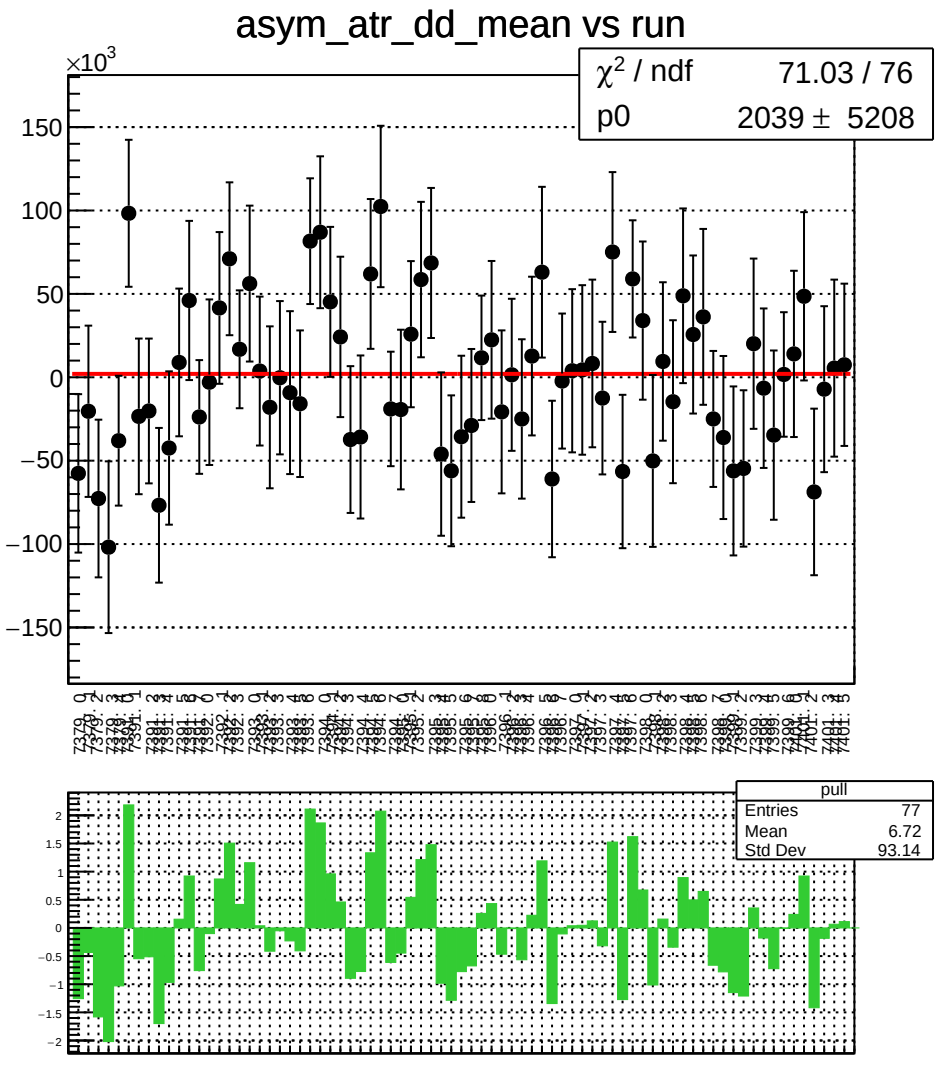

pull1D
Entries 77
Mean 0.004602
Std Dev 0.8791

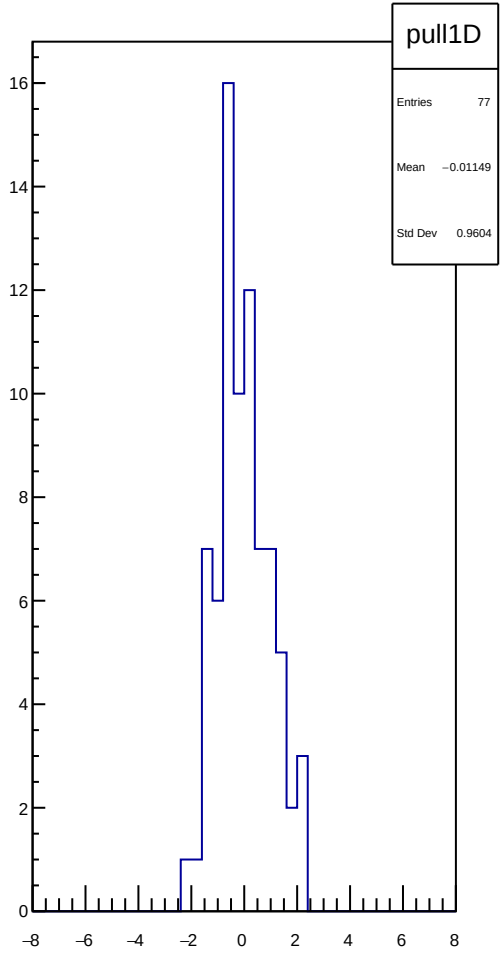

reg_asym_atr_dd_rms vs run
χ² / ndf 75.78 / 76
p0 1861 ± 1.516
1900
1880
1860
1840
1820

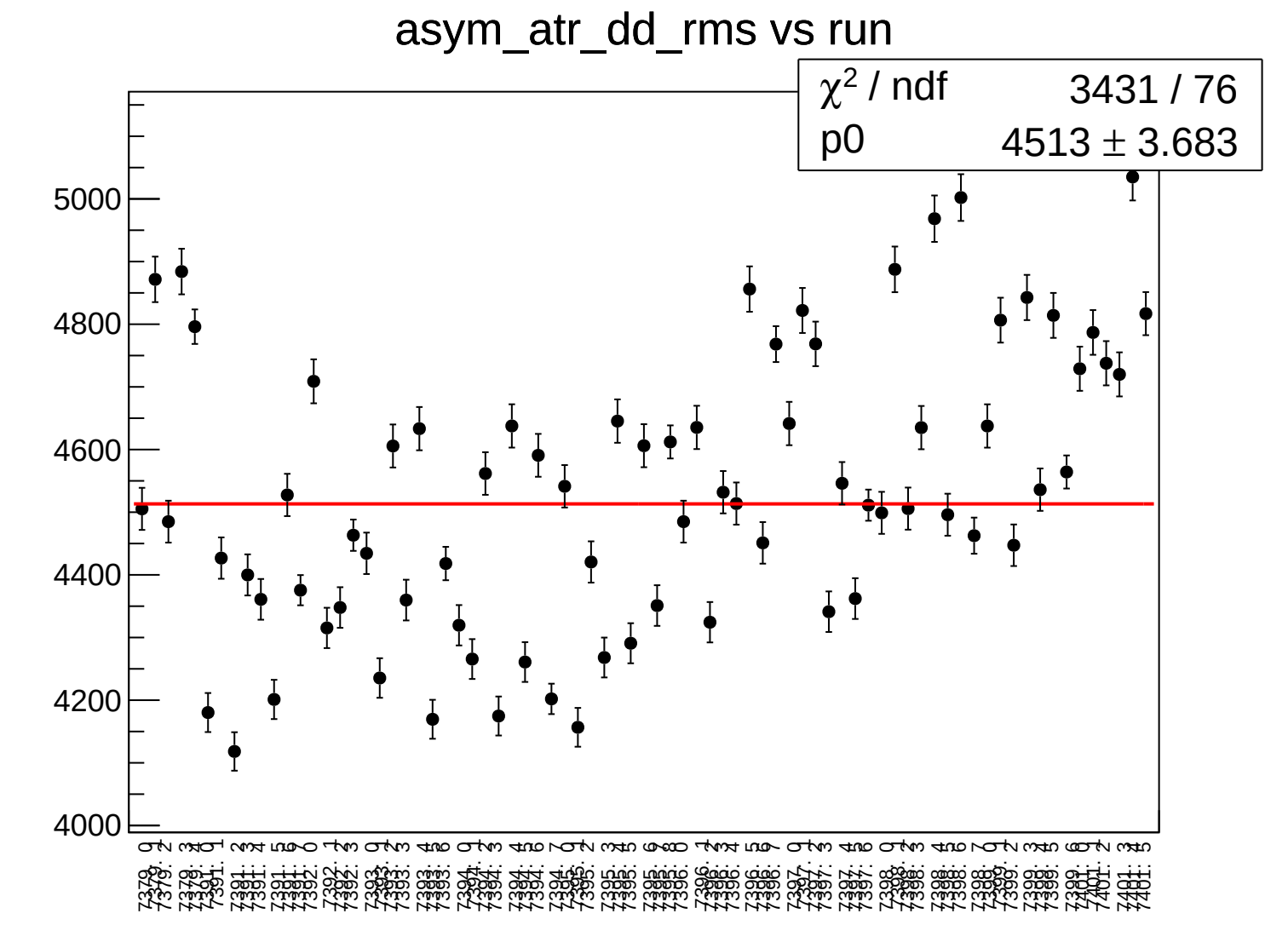

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 69.94 / 76
p0 −1449 ± 4741
150
100
50
0
−50
−100
−150
pull
Entries 77
Mean 128.1
Std Dev 59.32
2
1
0
−1
−2
−3

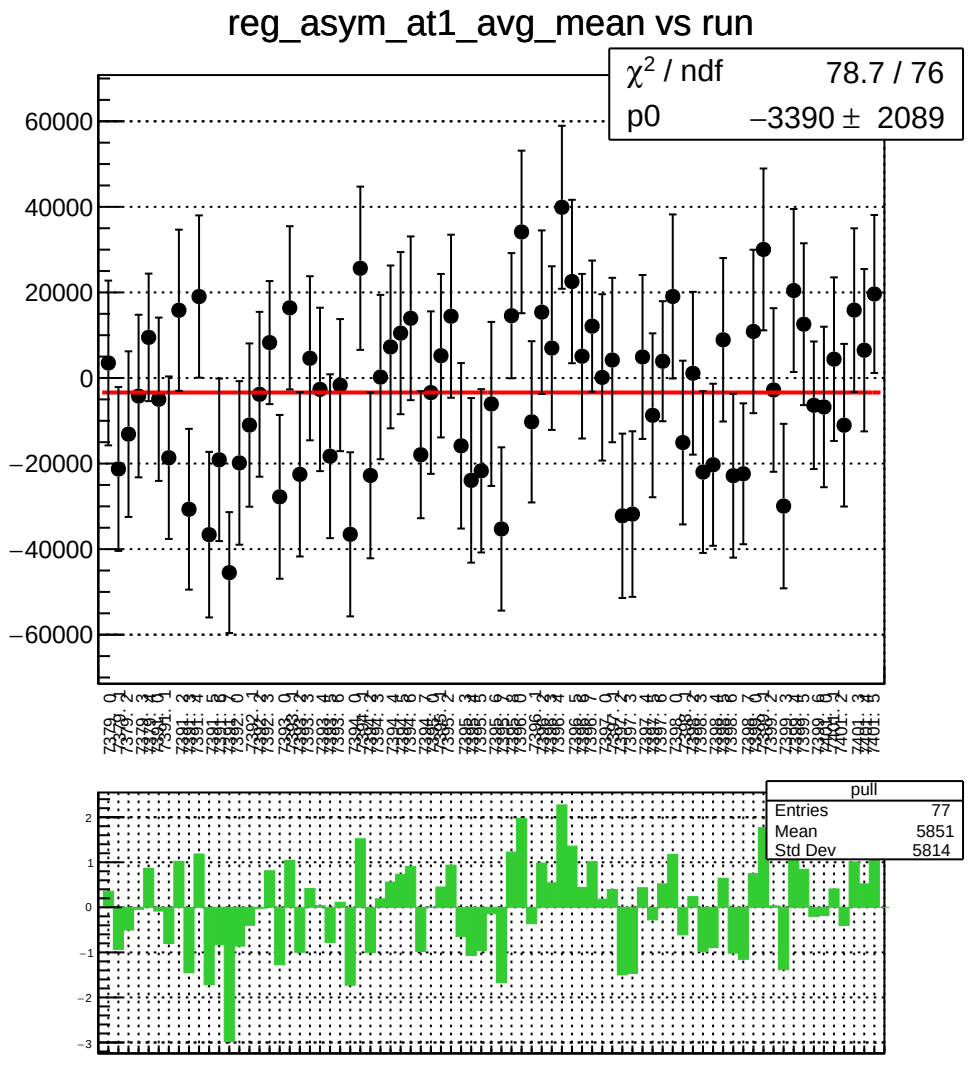

pull1D
Entries 77
Mean 0.01895
Std Dev 0.9529
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

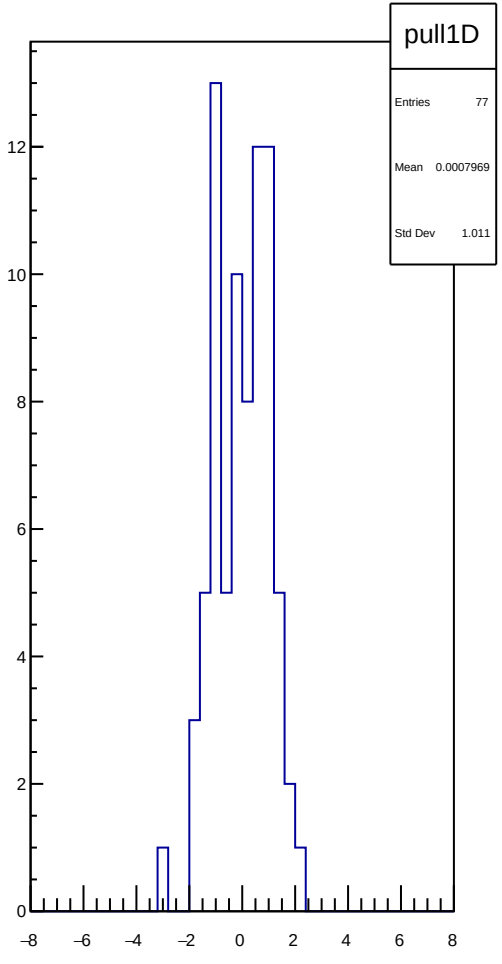

asym_atr_dd_correction_rms vs run
χ² / ndf 4889 / 76
p0 4107 ± 3.352
4800
4600
4400
4200
4000
3800
3600

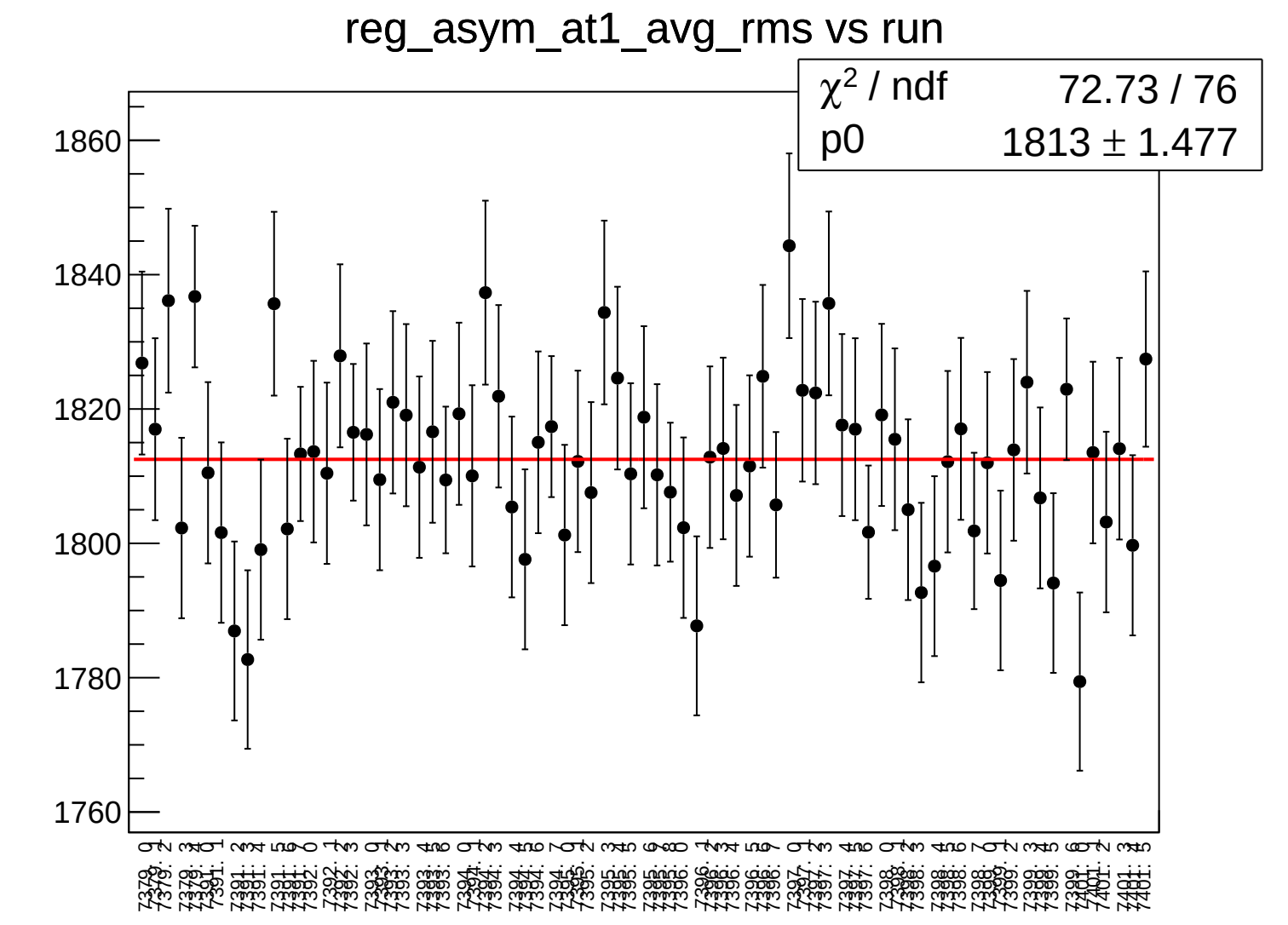

asym_atr_dd_mean vs run
×10^3
χ² / ndf 71.03 / 76
p0 2039 ± 5208
150
100
50
0
−50
−100
−150
pull
Entries 77
Mean 6.72
Std Dev 93.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

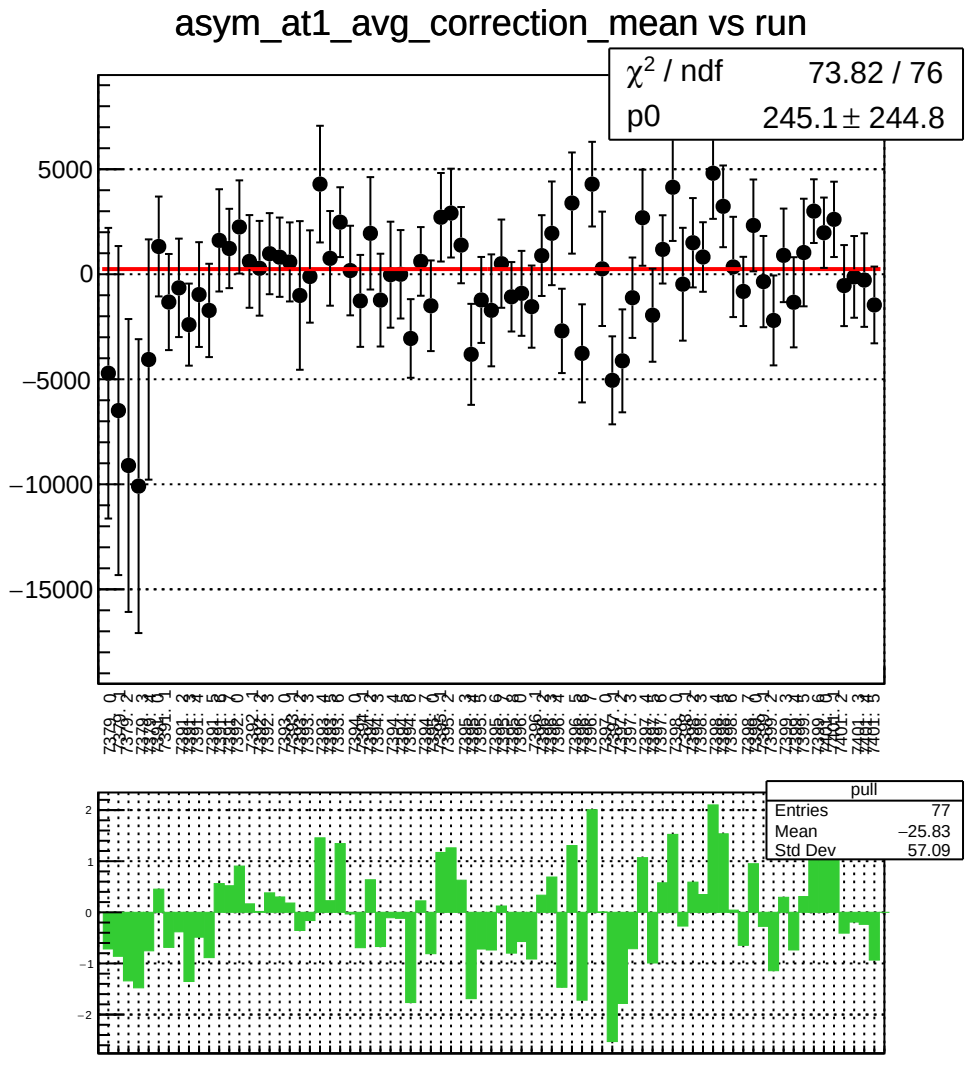

pull1D
Entries 77
Mean −0.01149
Std Dev 0.9604
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

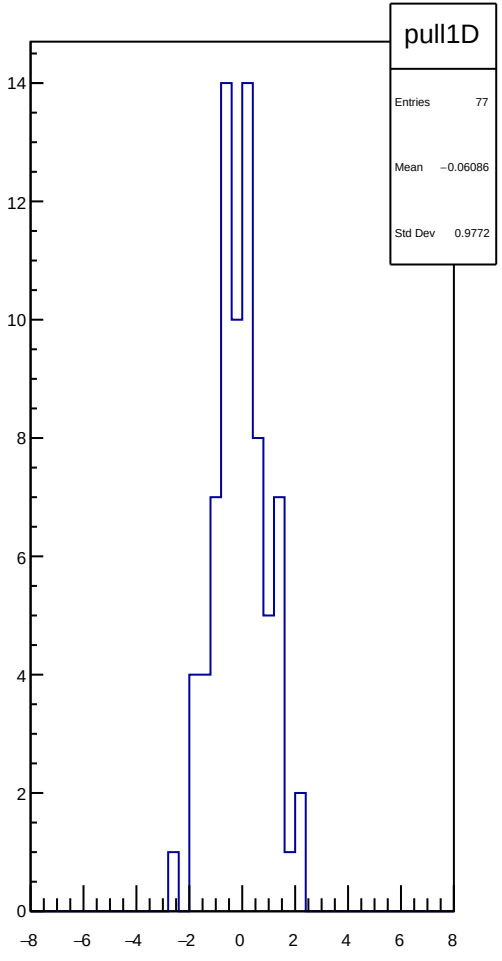

asym_atr_dd_rms vs run
χ^2 / ndf 3431 / 76
p0 4513 ± 3.683
5000
4800
4600
4400
4200
4000

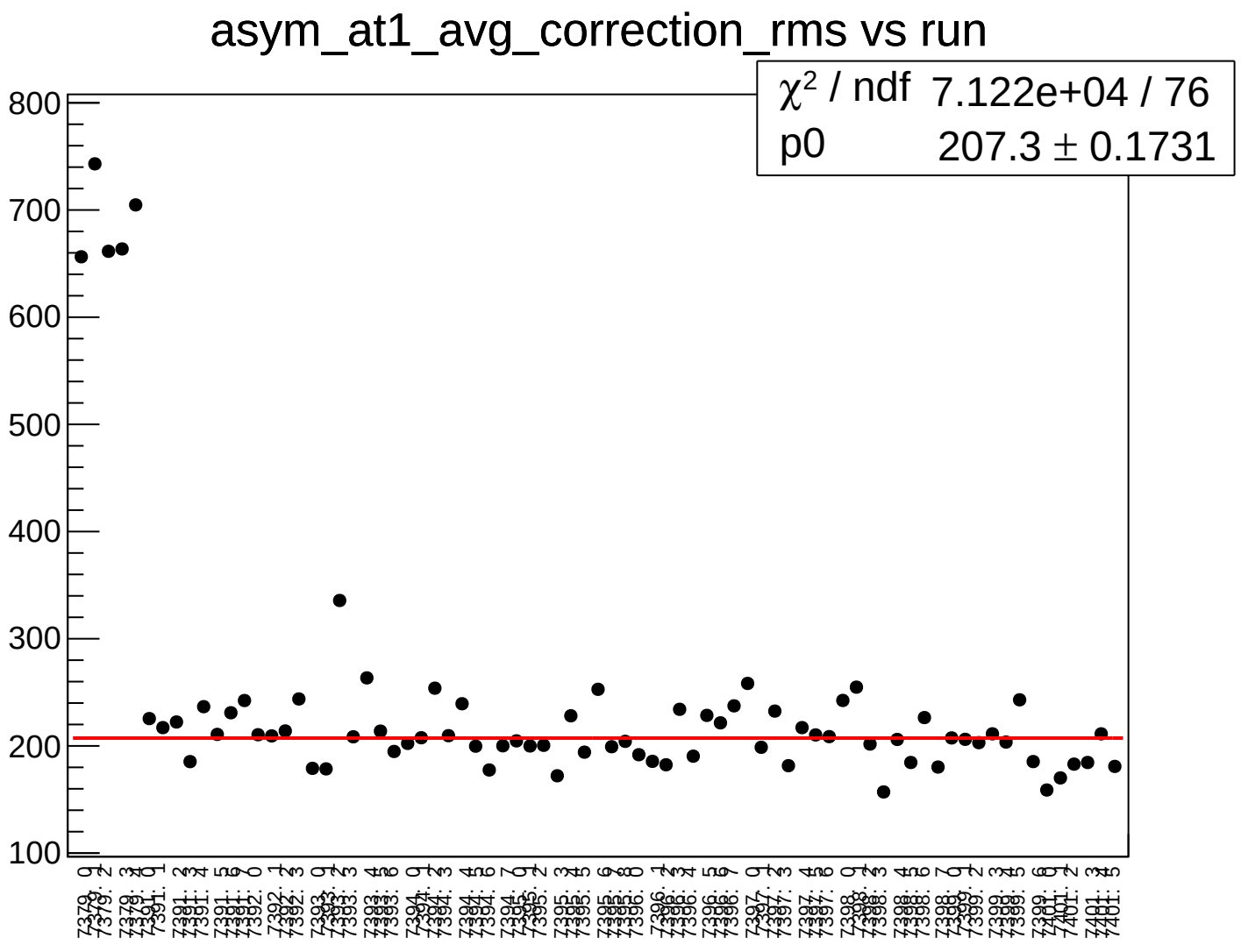

reg_asym_at1_avg_mean vs run
χ² / ndf 78.7 / 76
p0 −3390 ± 2089
pull
Entries 77
Mean 5851
Std Dev 5814

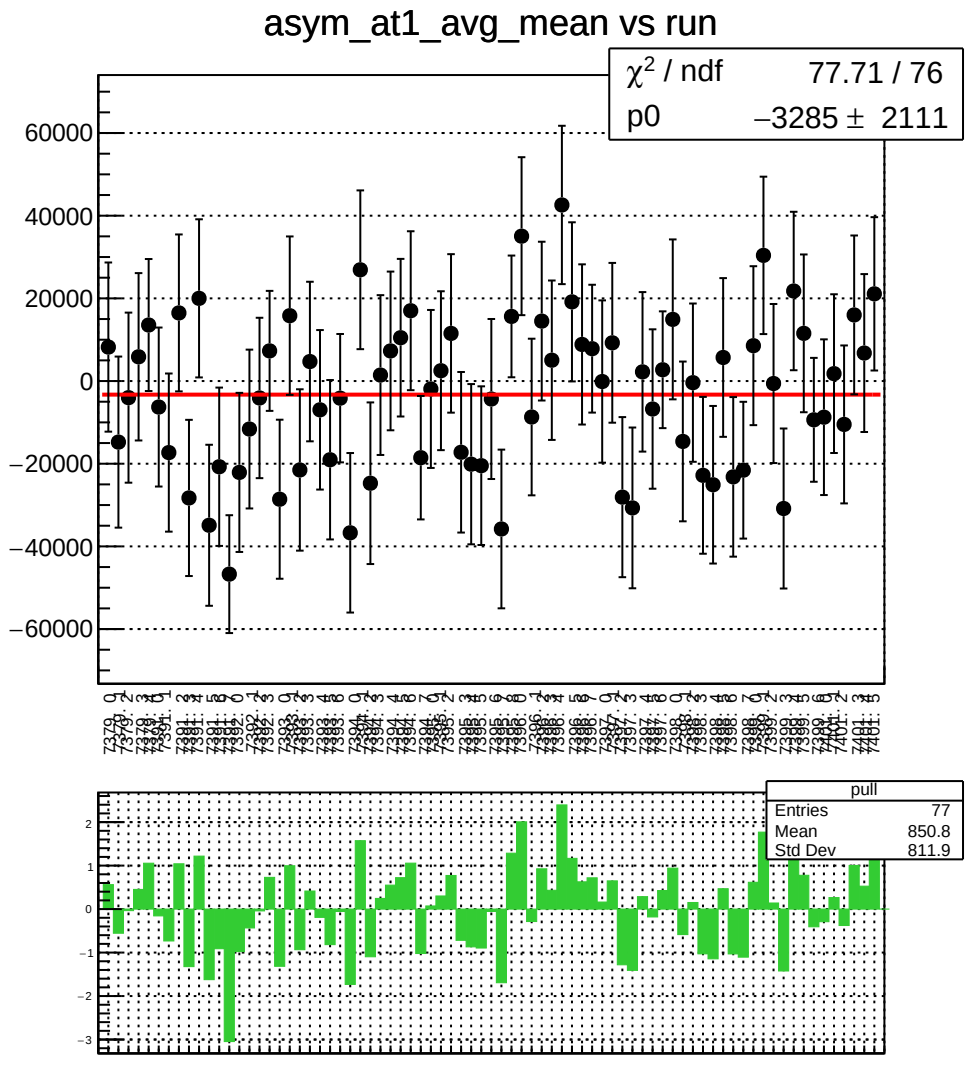

pull1D
Entries 77
Mean 0.0007969
Std Dev 1.011

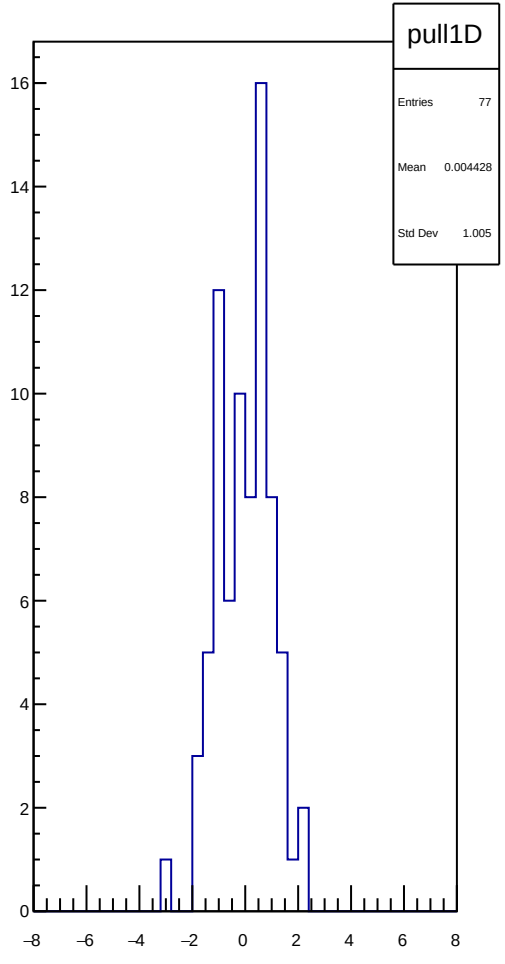

reg_asym_at1_avg_rms vs run
χ^2 / ndf 72.73 / 76
p0 1813 ± 1.477
1860
1840
1820
1800
1780
1760

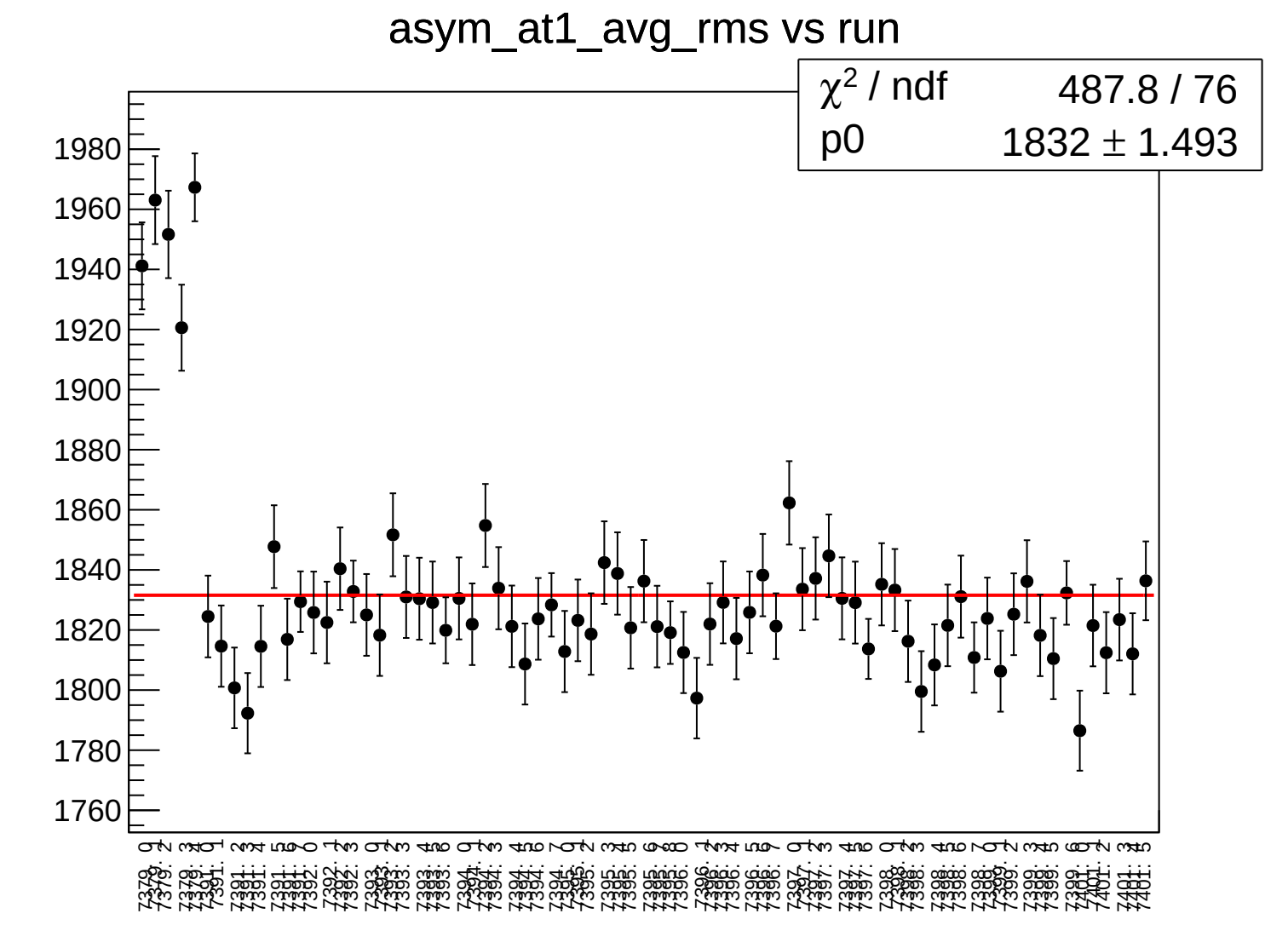

asym_at1_avg_correction_mean vs run
χ² / ndf 73.82 / 76
p0 245.1 ± 244.8
5000
0
−5000
−10000
−15000
pull
Entries 77
Mean −25.83
Std Dev 57.09
2
1
0
−1
−2

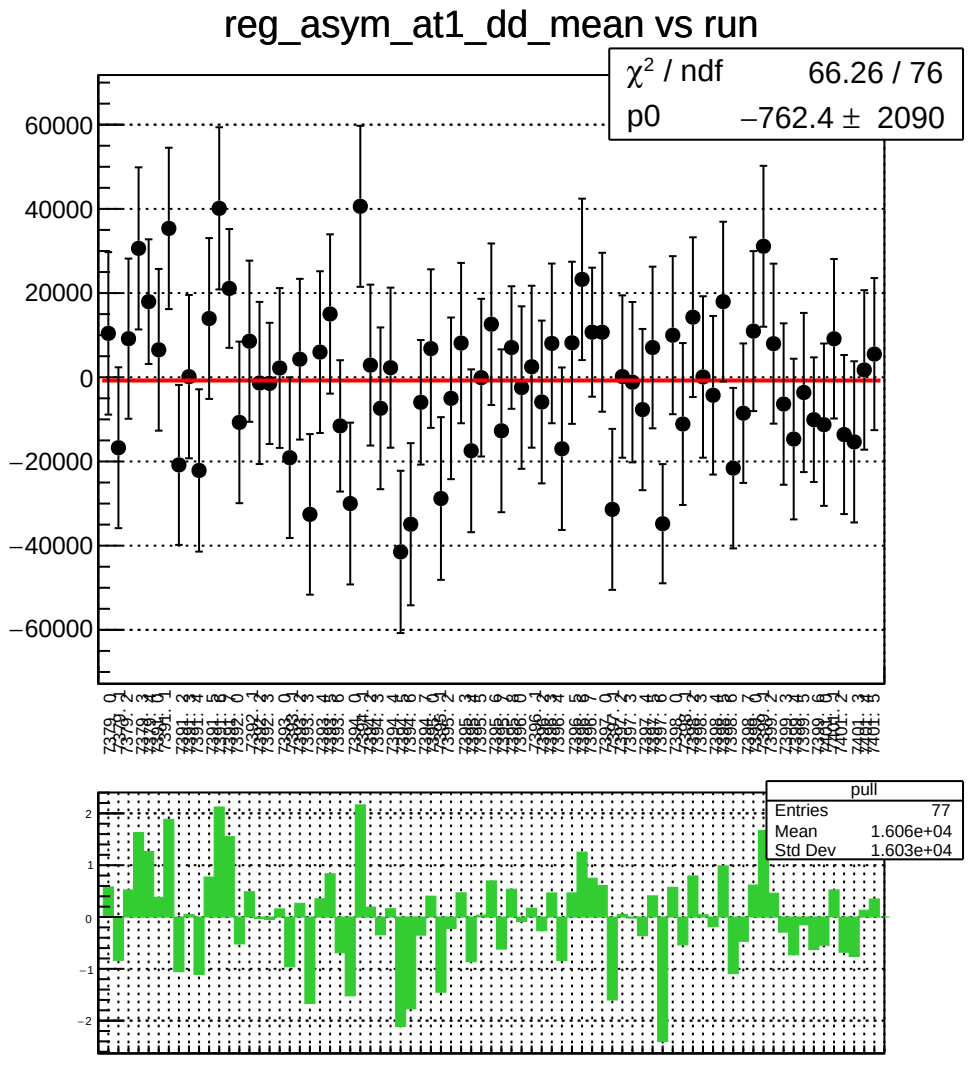

pull1D
Entries 77
Mean −0.06086
Std Dev 0.9772
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

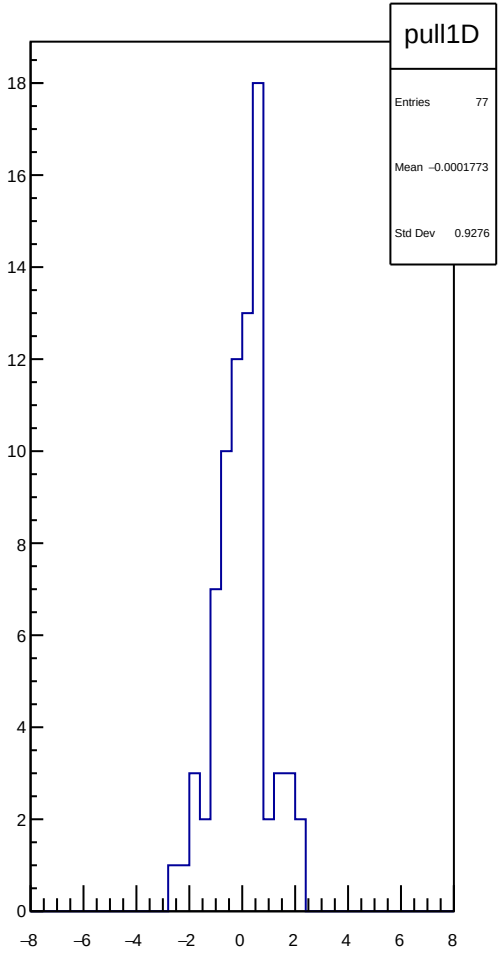

asym_at1_avg_correction_rms vs run
χ² / ndf 7.122e+04 / 76
p0 207.3 ± 0.1731
800
700
600
500
400
300
200
100

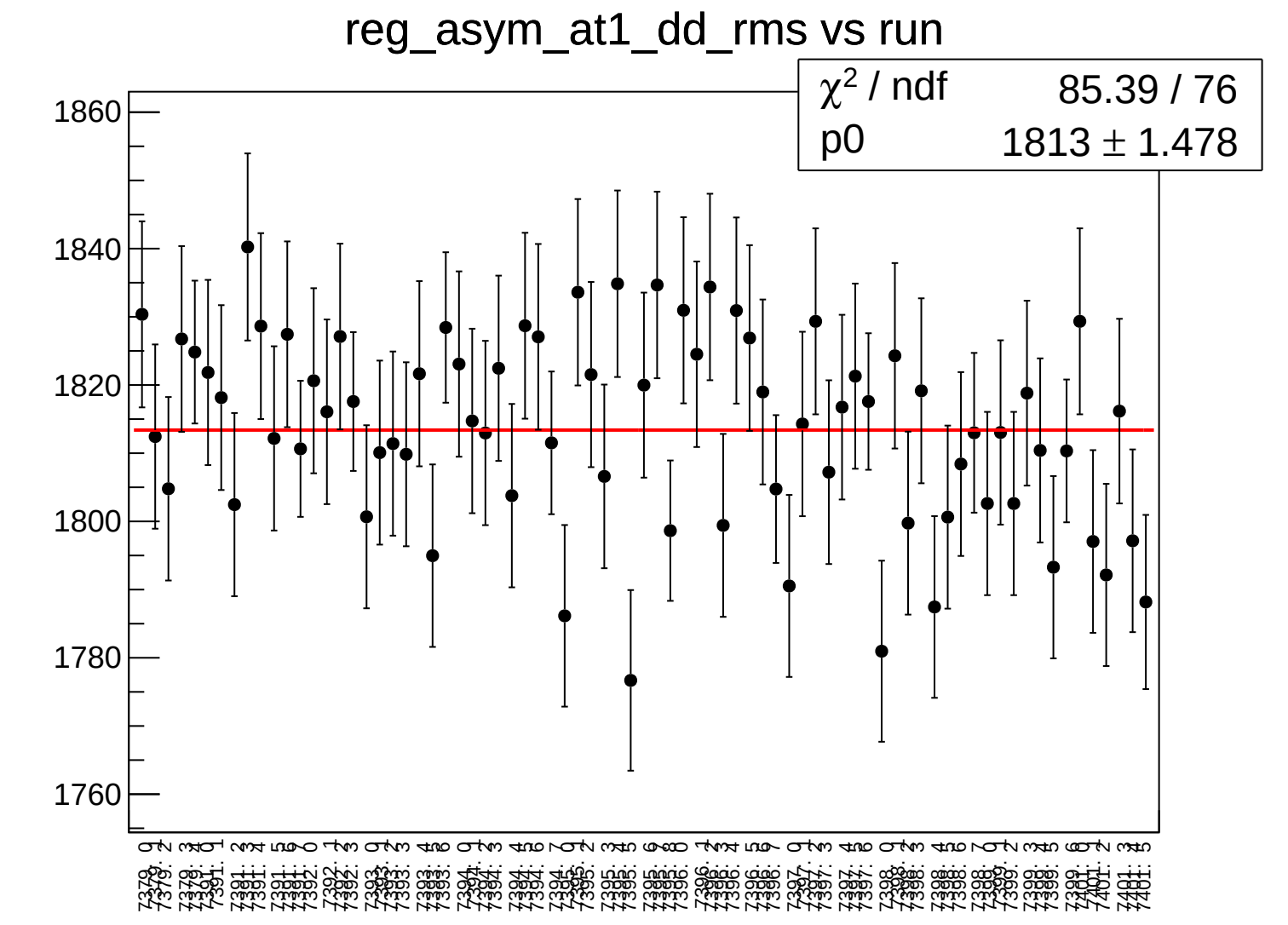

asym_at1_avg_mean vs run
χ² / ndf 77.71 / 76
p0 −3285 ± 2111
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 77
Mean 850.8
Std Dev 811.9
2
1
0
−1
−2
−3

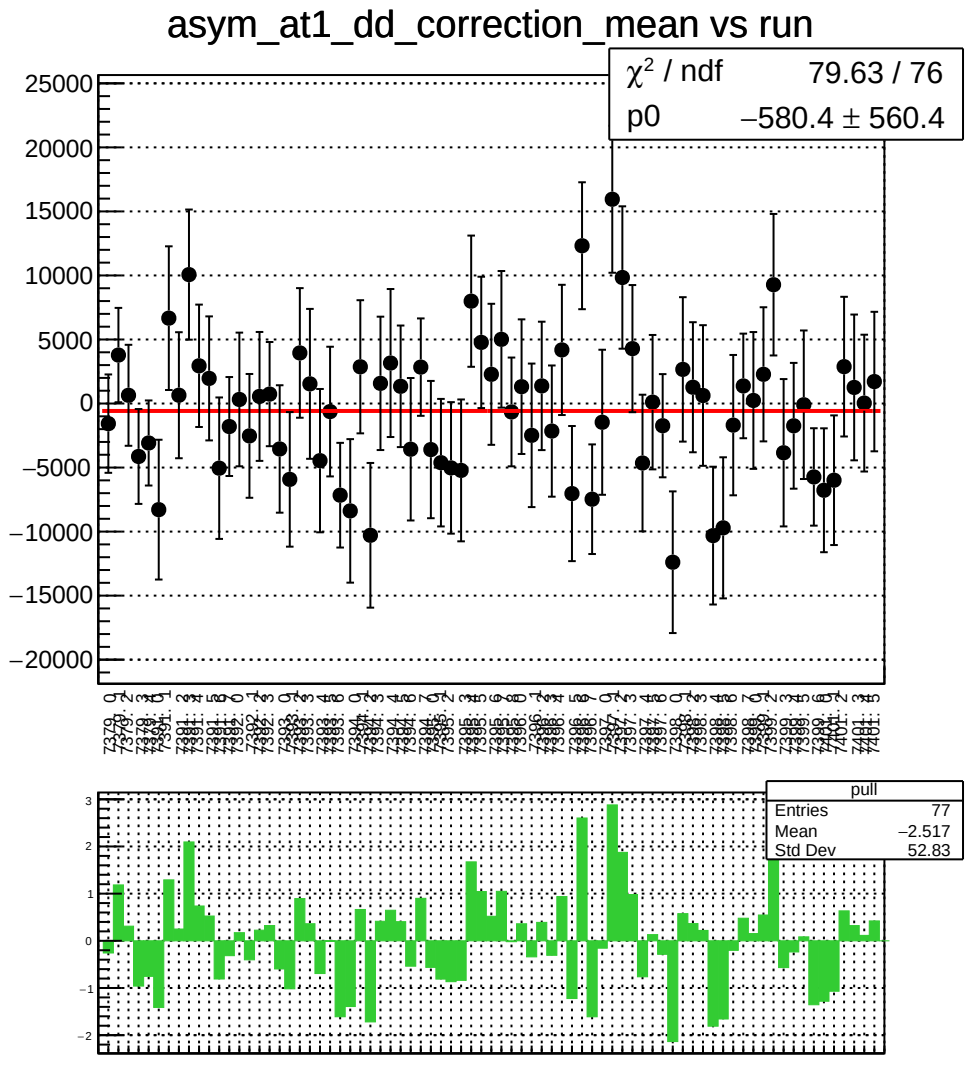

pull1D
Entries 77
Mean 0.004428
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

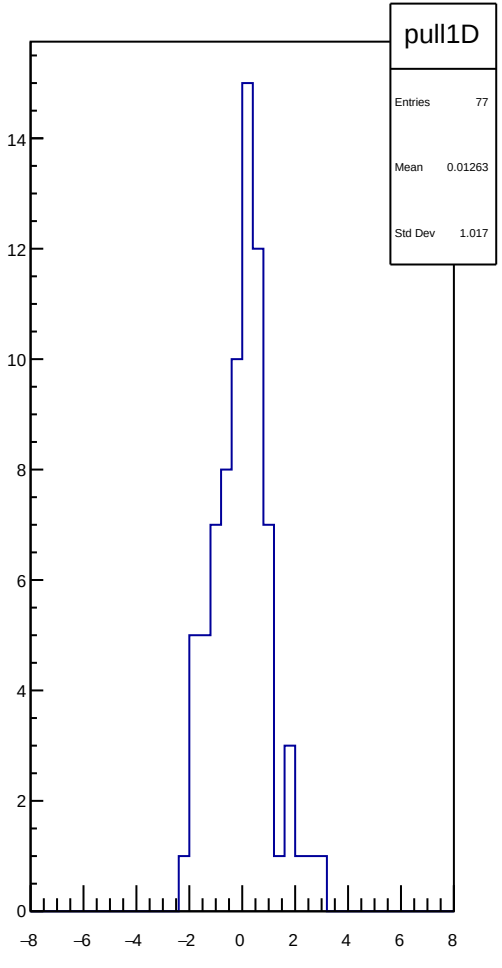

asym_at1_avg_rms vs run
χ^2 / ndf 487.8 / 76
p0 1832 ± 1.493
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

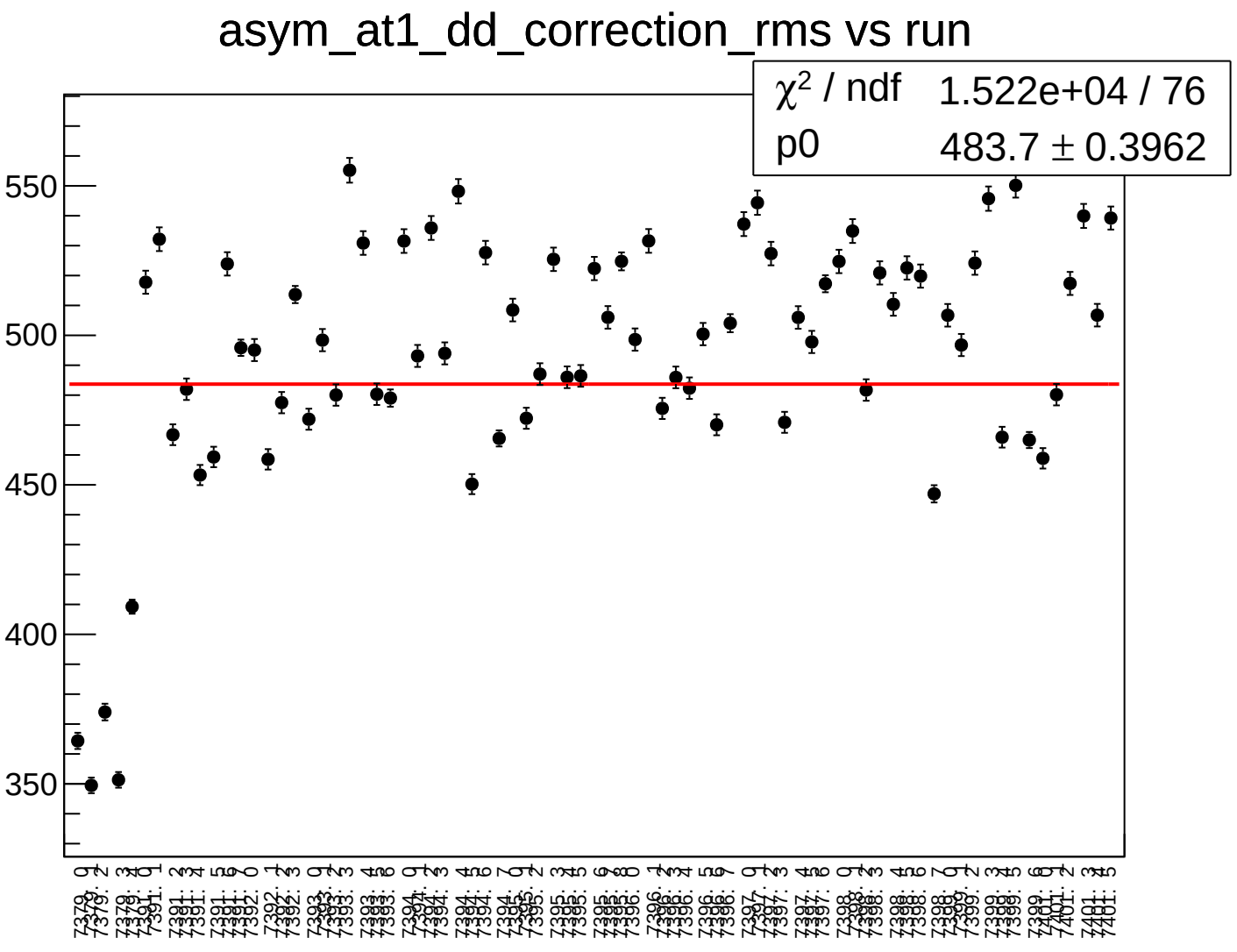

reg_asym_at1_dd_mean vs run
χ² / ndf 66.26 / 76
p0 −762.4 ± 2090
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 77
Mean 1.606e+04
Std Dev 1.603e+04
2
1
0
−1
−2

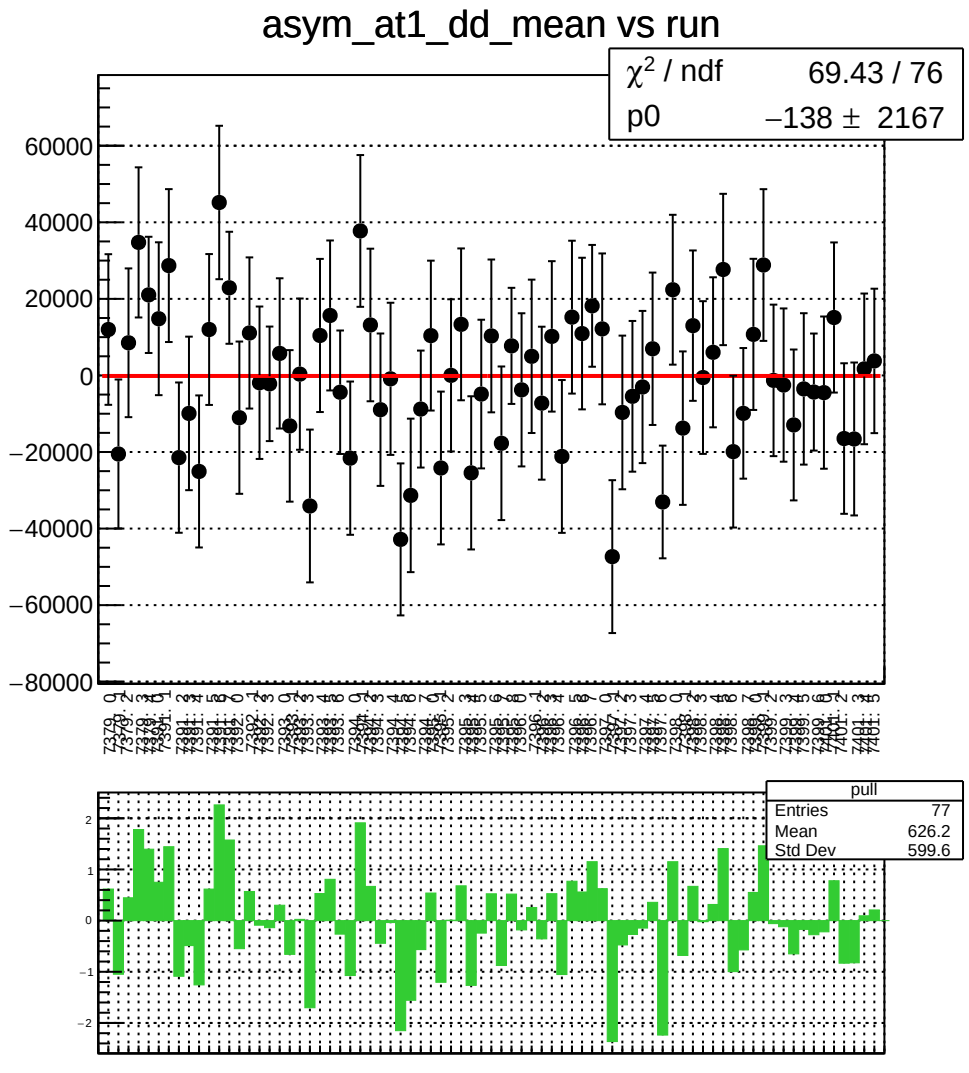

pull1D
Entries 77
Mean −0.0001773
Std Dev 0.9276
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

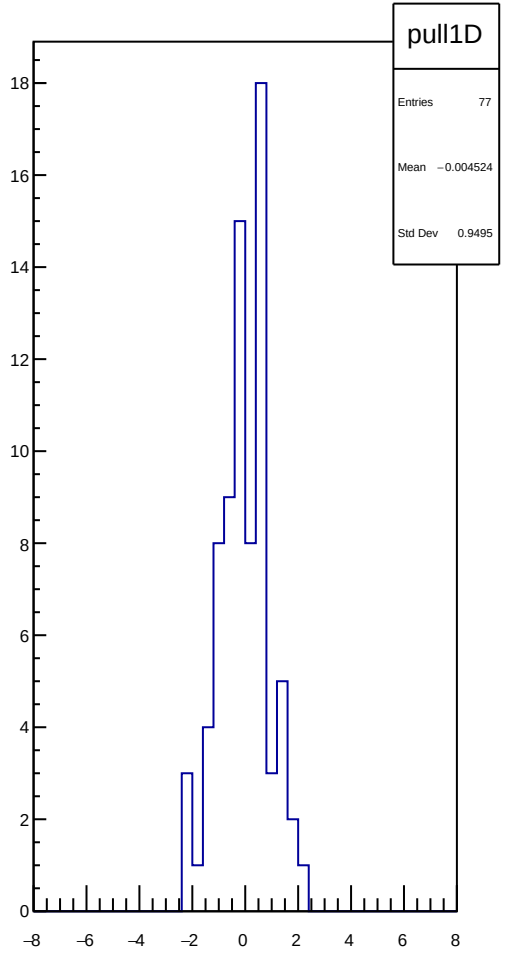

reg_asym_at1_dd_rms vs run
χ² / ndf 85.39 / 76
p0 1813 ± 1.478
1860
1840
1820
1800
1780
1760

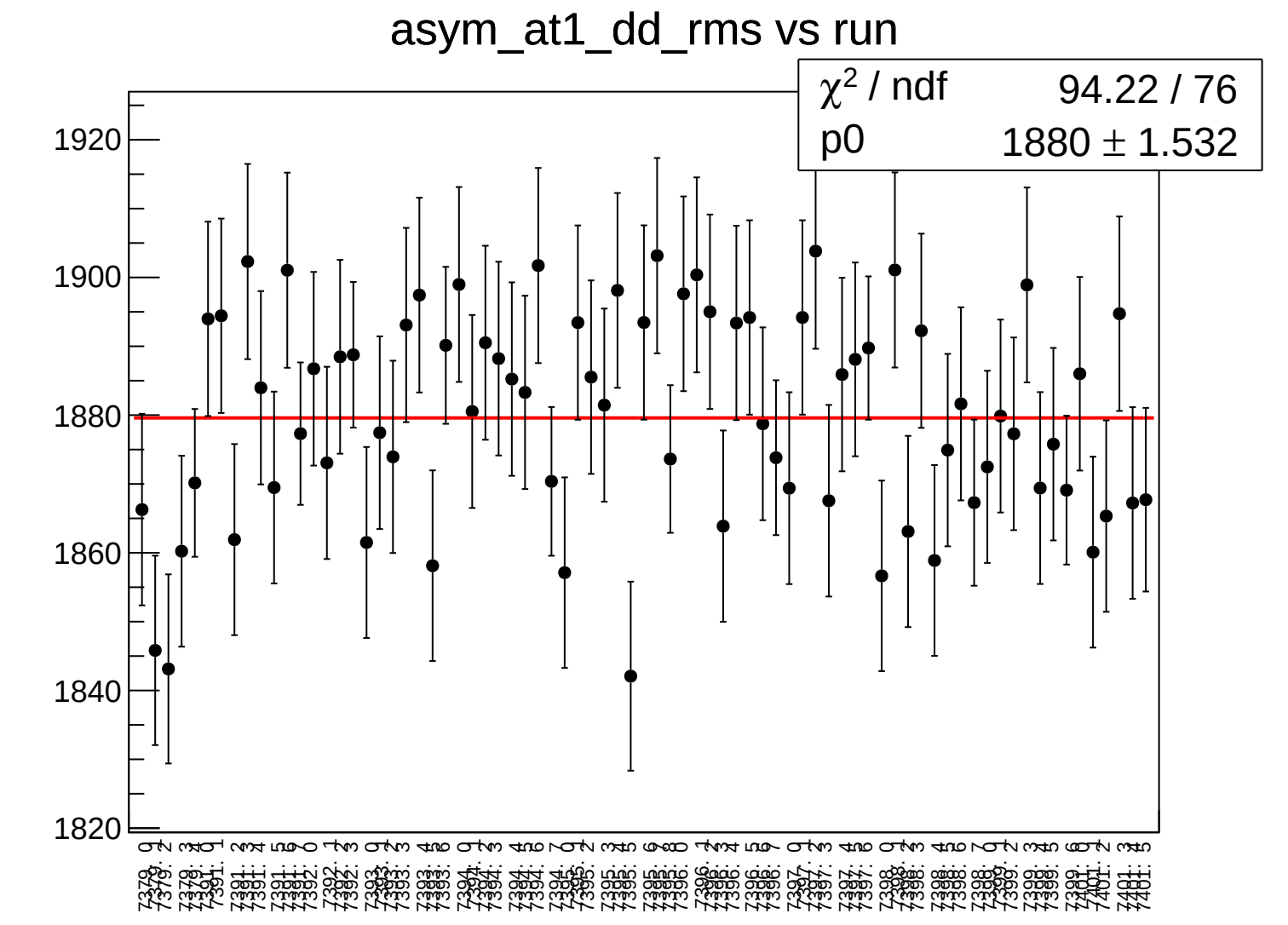

asym_at1_dd_correction_mean vs run
χ² / ndf 79.63 / 76
p0 −580.4 ± 560.4
pull
Entries 77
Mean −2.517
Std Dev 52.83

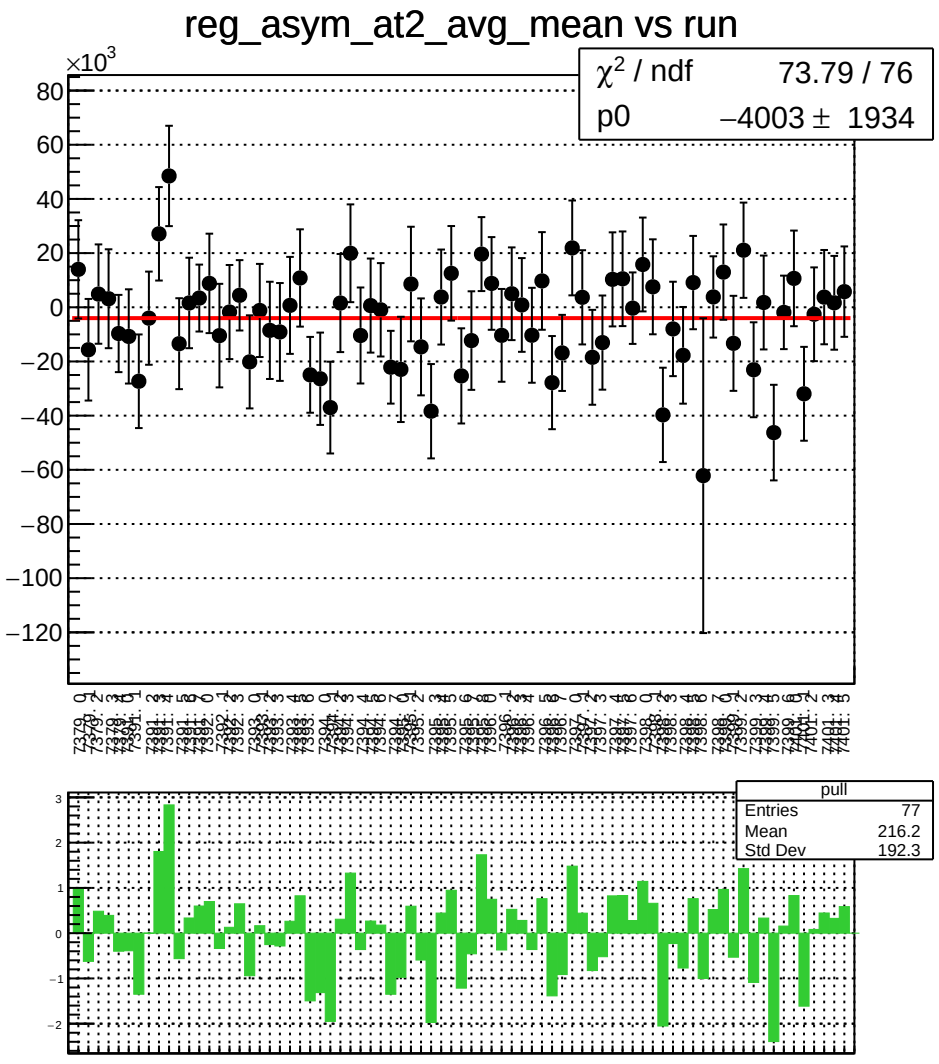

pull1D
Entries 77
Mean 0.01263
Std Dev 1.017

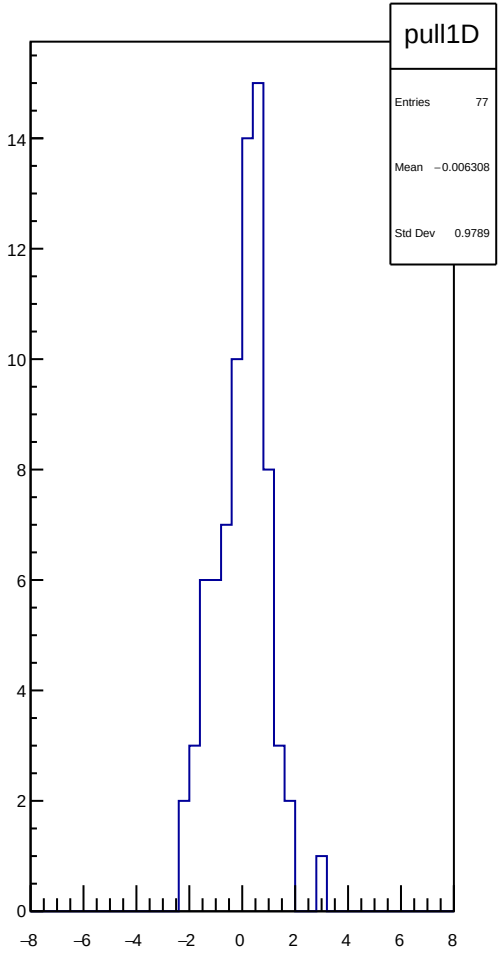

asym_at1_dd_correction_rms vs run
χ² / ndf 1.522e+04 / 76
p0 483.7 ± 0.3962
550
500
450
400
350

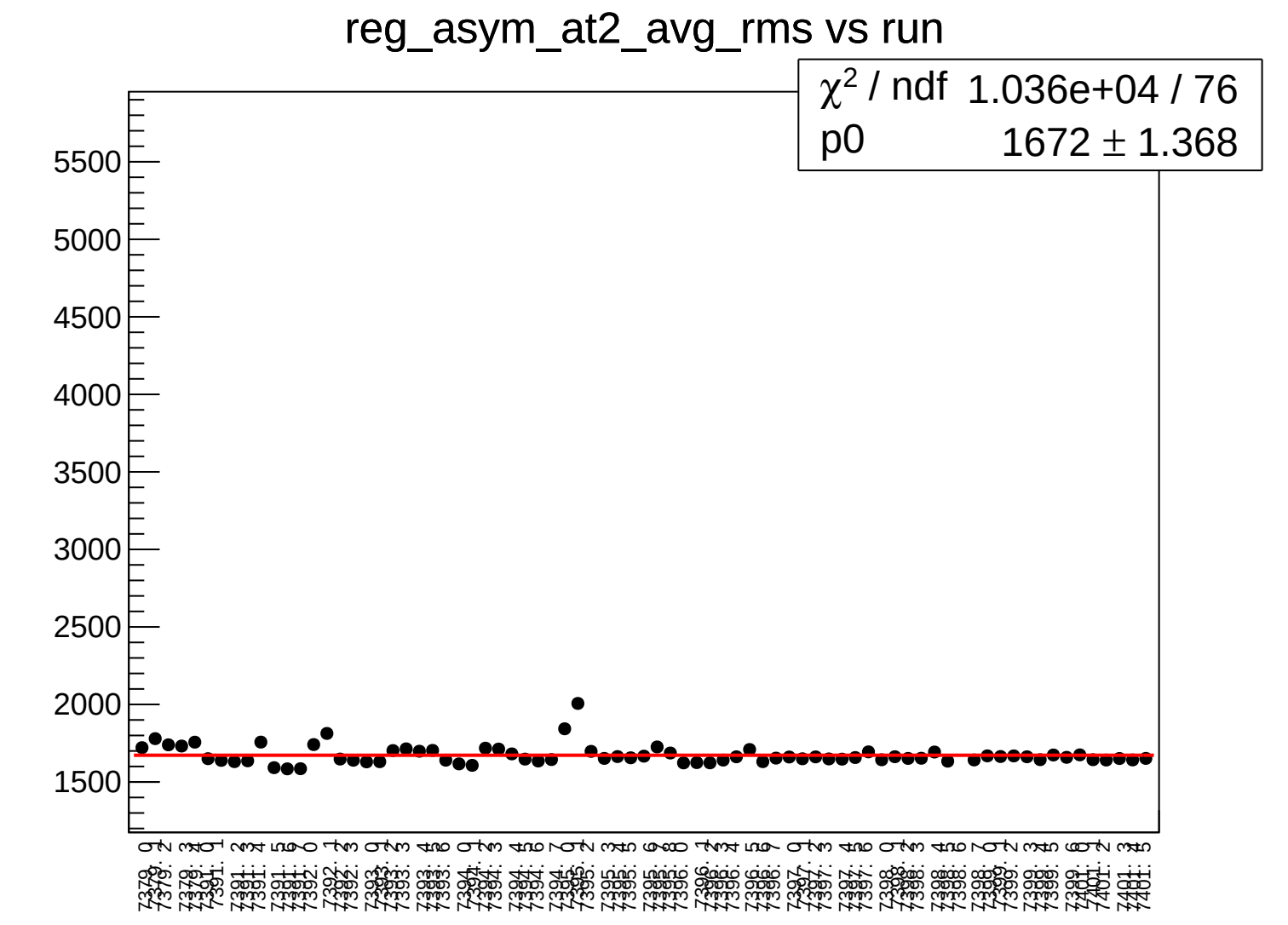

asym_at1_dd_mean vs run
χ² / ndf 69.43 / 76
p0 −138 ± 2167
pull
Entries 77
Mean 626.2
Std Dev 599.6

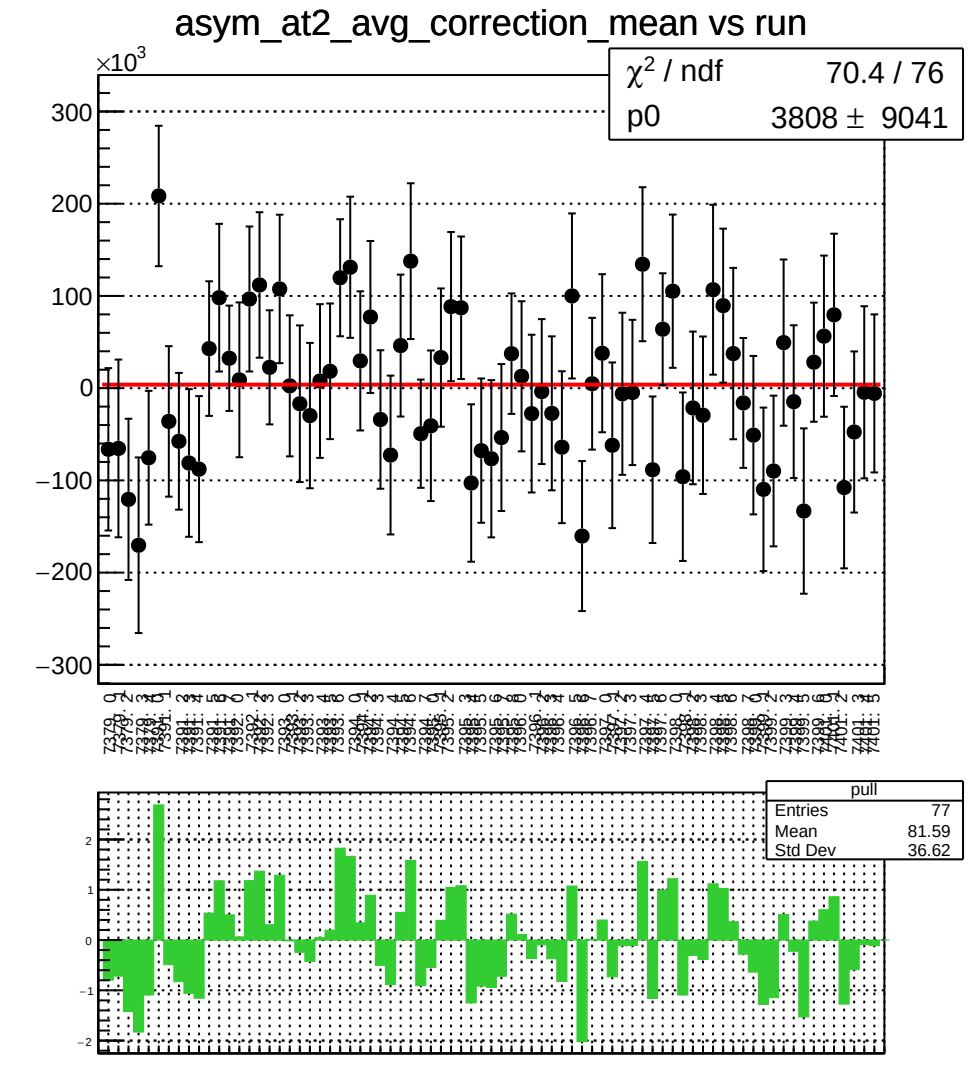

pull1D
Entries 77
Mean −0.004524
Std Dev 0.9495

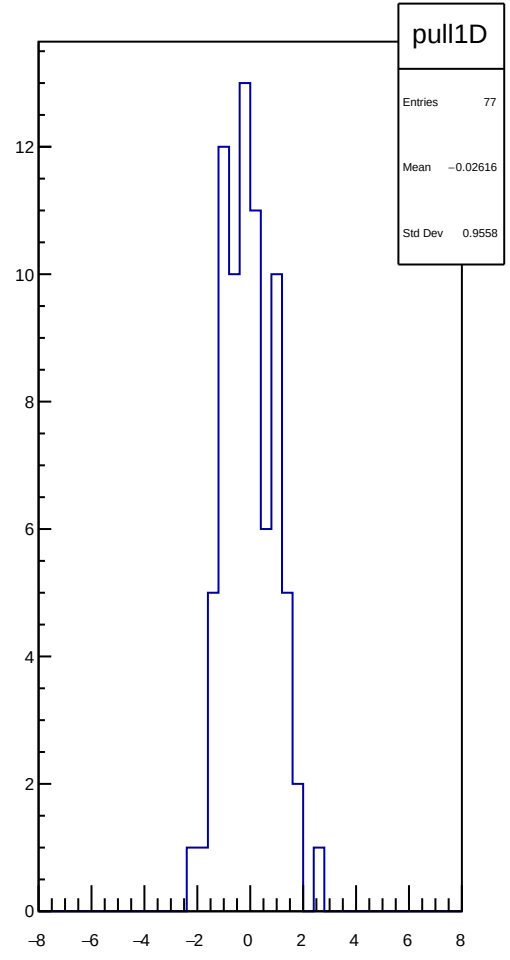

asym_at1_dd_rms vs run
χ² / ndf 94.22 / 76
p0 1880 ± 1.532
1920
1900
1880
1860
1840
1820

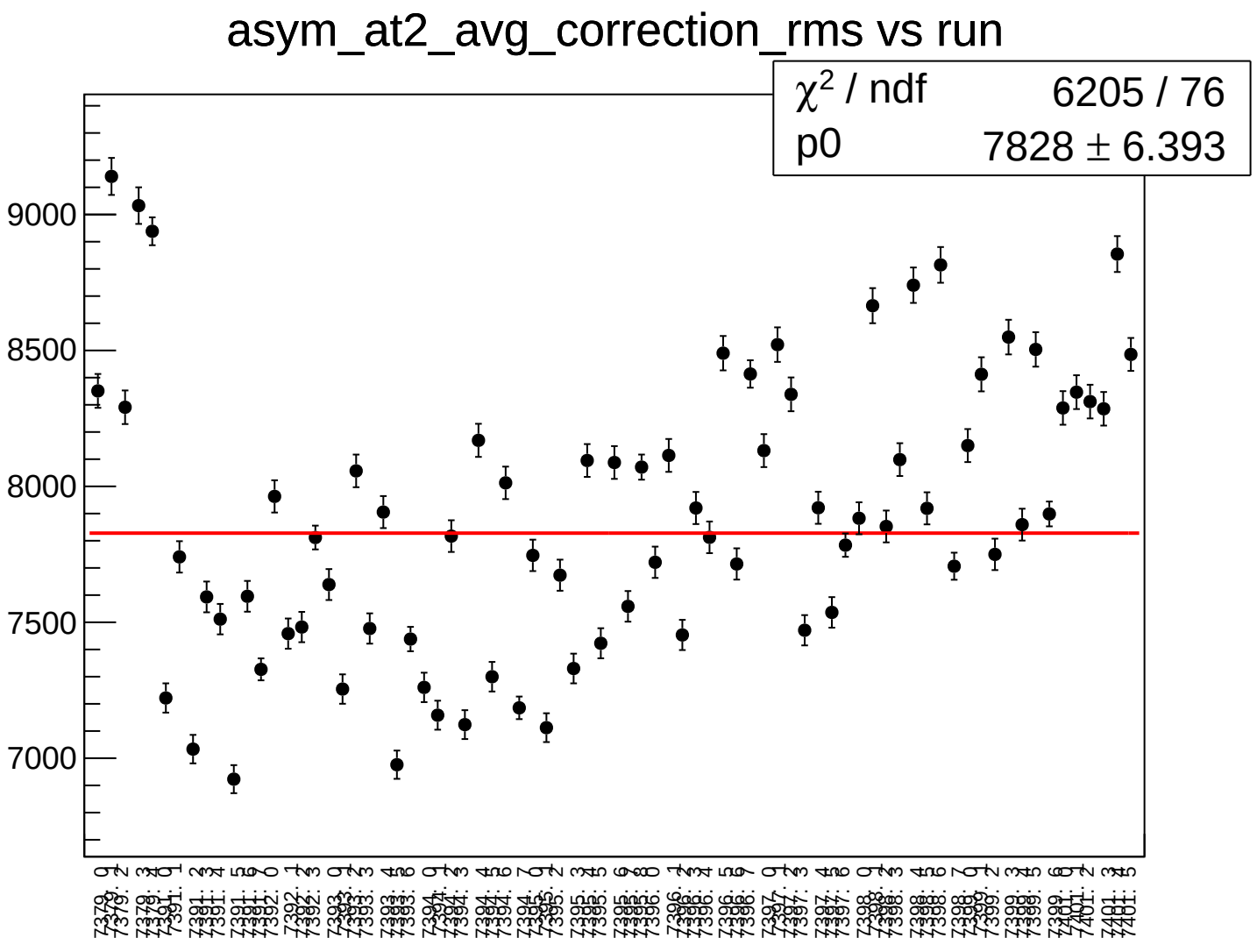

reg_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 73.79 / 76
p0 −4003 ± 1934
pull
Entries 77
Mean 216.2
Std Dev 192.3

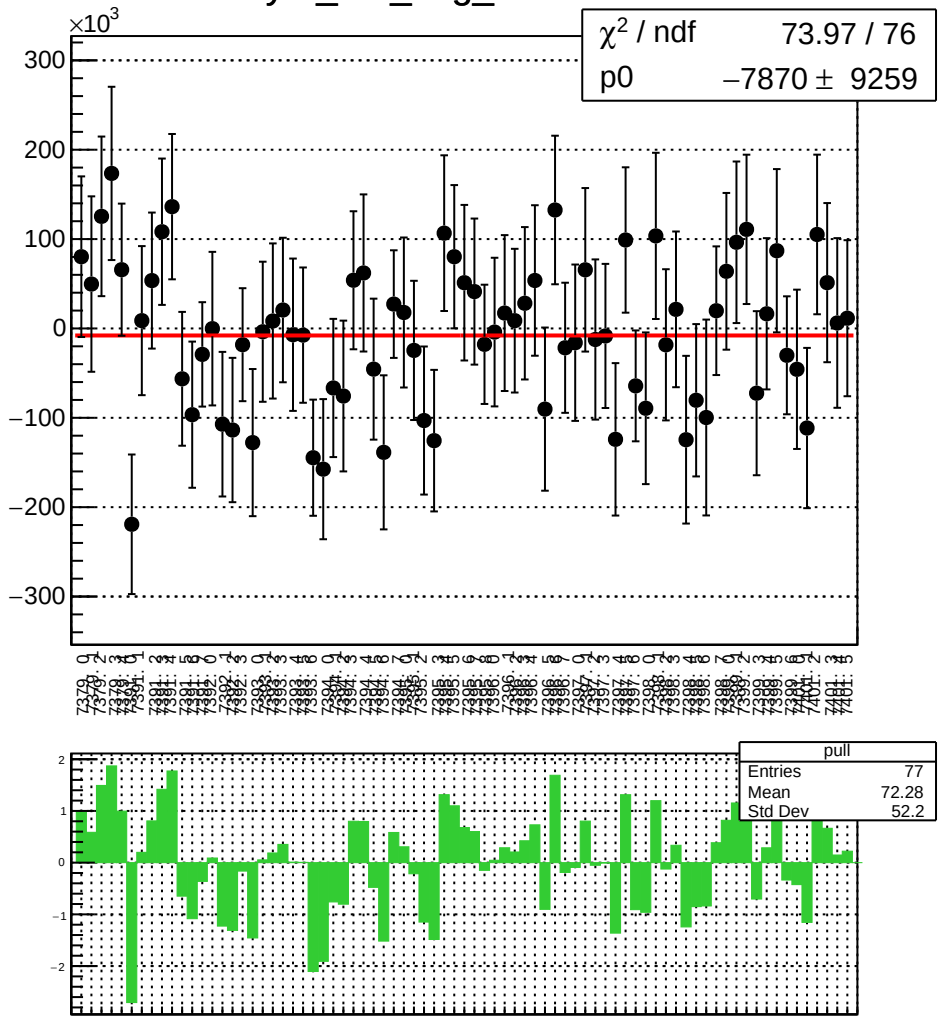

pull1D
Entries 77
Mean −0.006308
Std Dev 0.9789

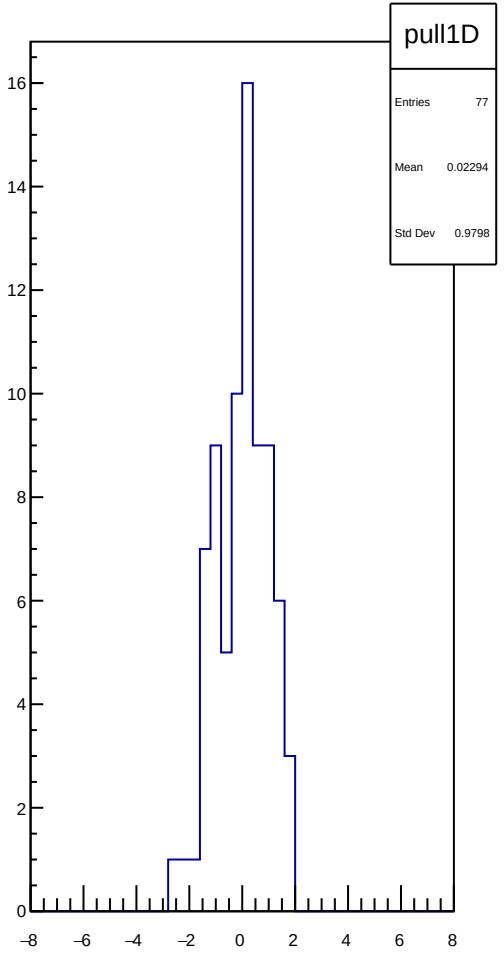

reg_asym_at2_avg_rms vs run
χ^2 / ndf 1.036e+04 / 76
p0 1672 ± 1.368
5500
5000
4500
4000
3500
3000
2500
2000
1500

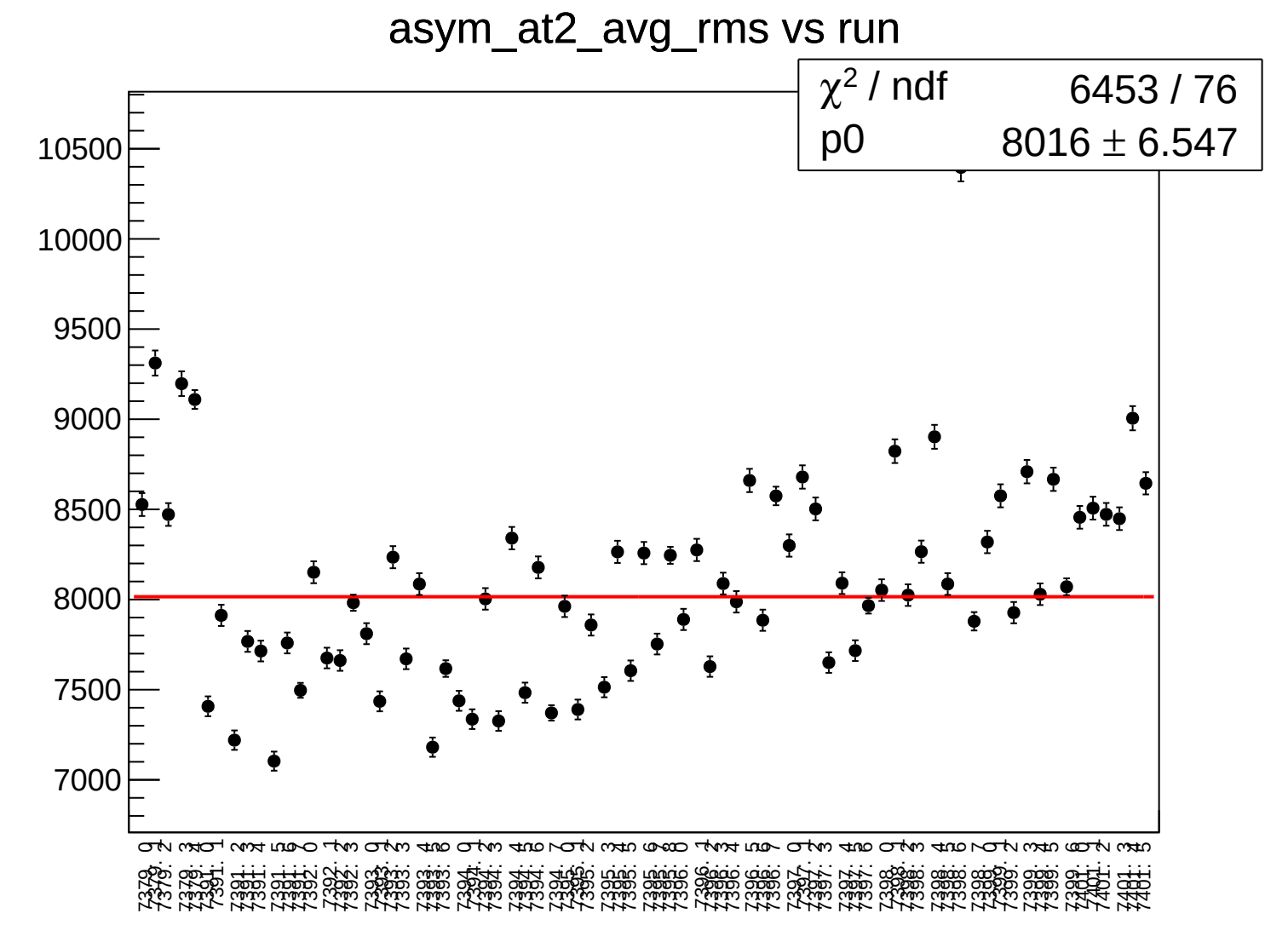

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 70.4 / 76
p0 3808 ± 9041
pull
Entries 77
Mean 81.59
Std Dev 36.62

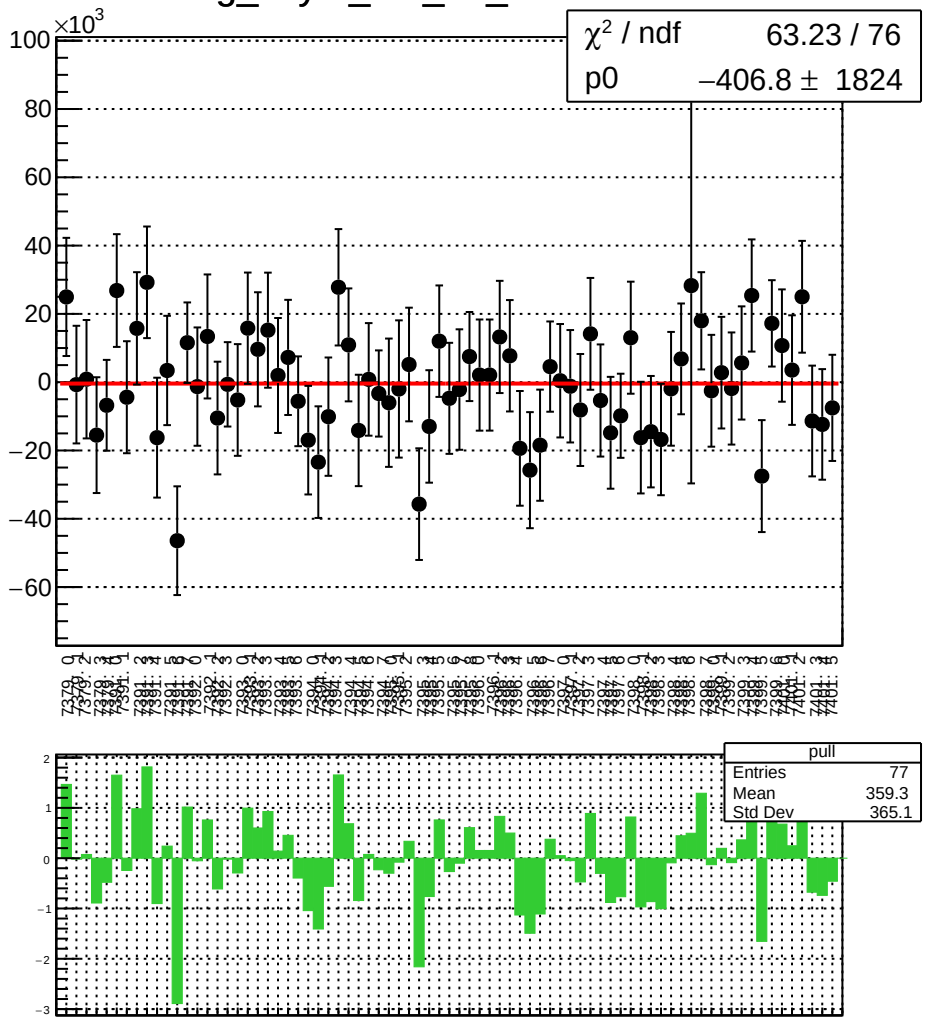

pull1D
Entries 77
Mean −0.02616
Std Dev 0.9558

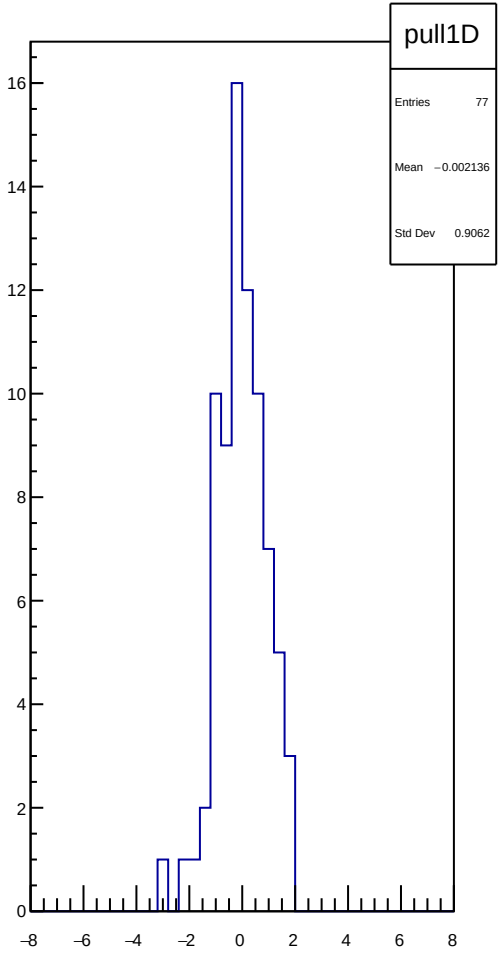

asym_at2_avg_correction_rms vs run
χ² / ndf 6205 / 76
p0 7828 ± 6.393
9000
8500
8000
7500
7000

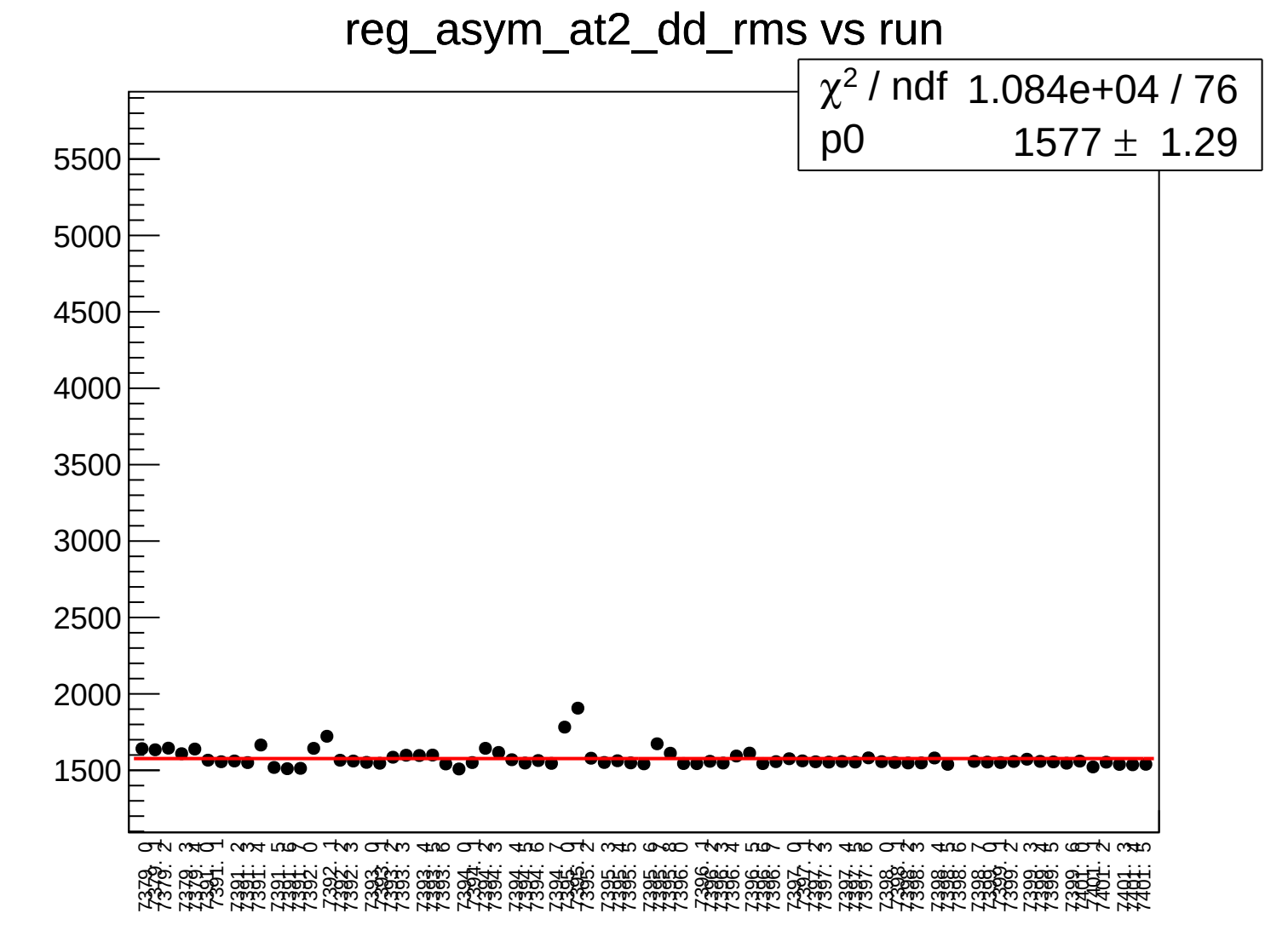

asym_at2_avg_mean vs run
×10^3
χ² / ndf 73.97 / 76
p0 −7870 ± 9259
pull
Entries 77
Mean 72.28
Std Dev 52.2

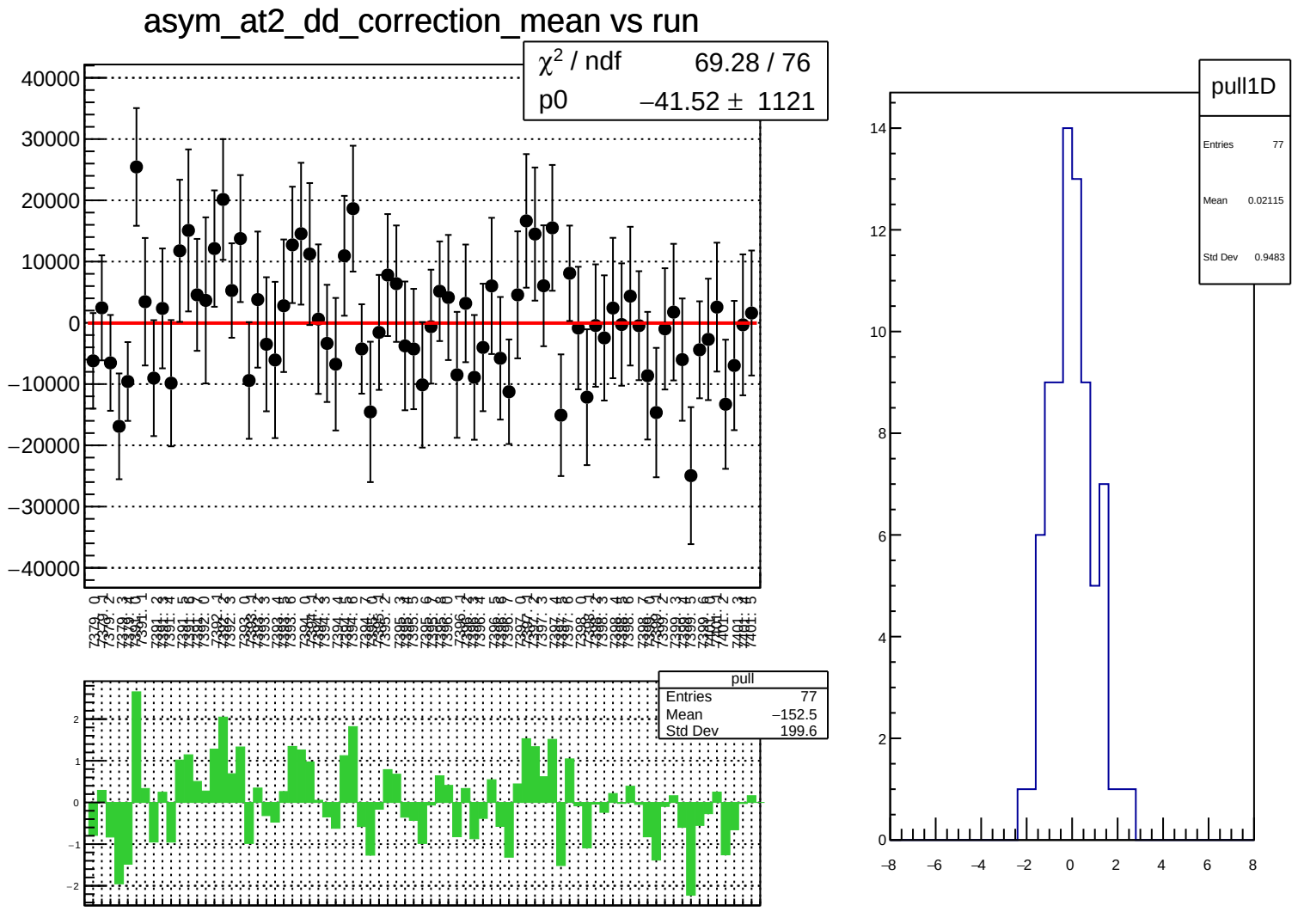

pull1D
Entries 77
Mean 0.02294
Std Dev 0.9798

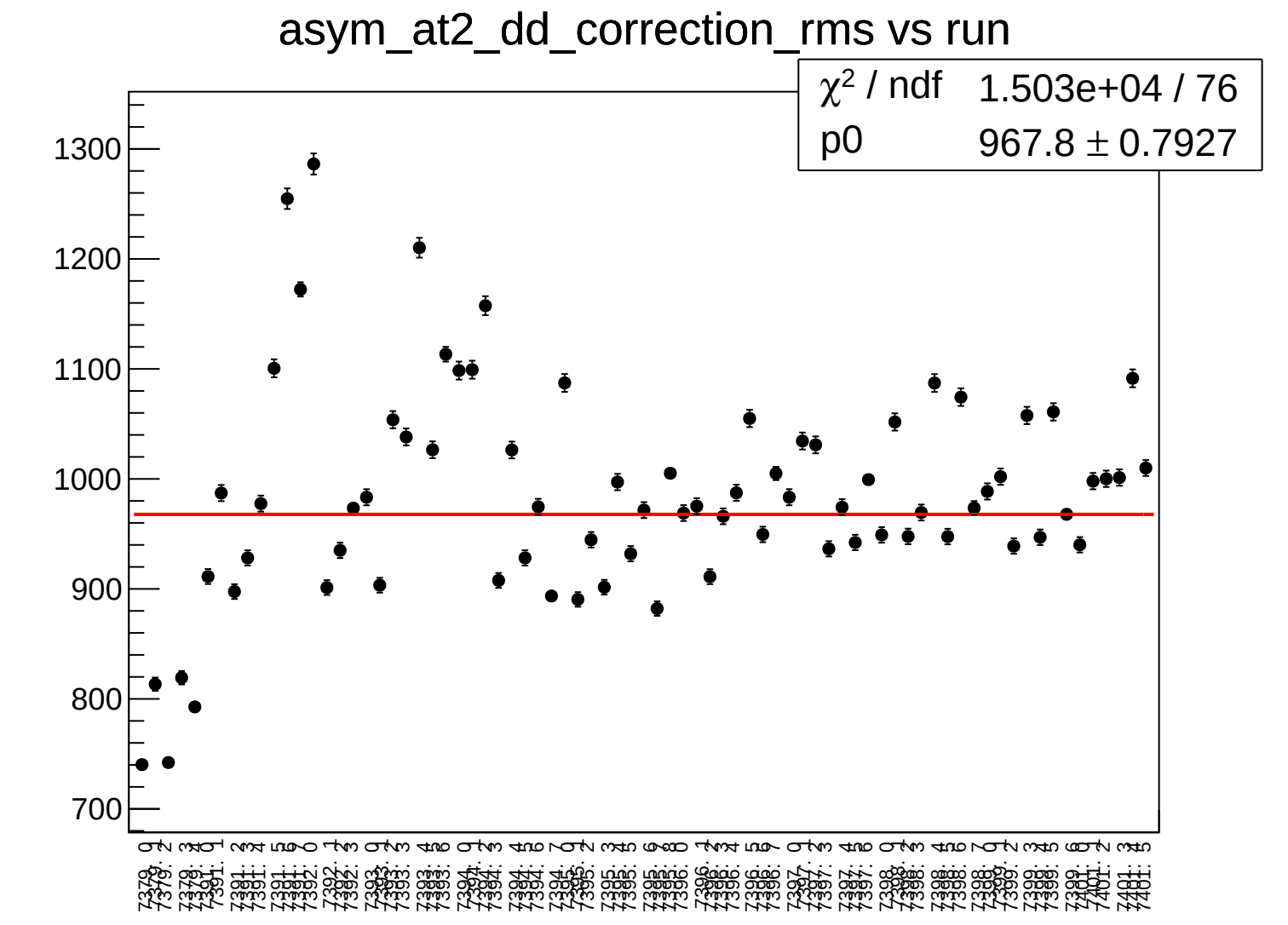

asym_at2_avg_rms vs run
χ^2 / ndf 6453 / 76
p0 8016 ± 6.547
10500
10000
9500
9000
8500
8000
7500
7000

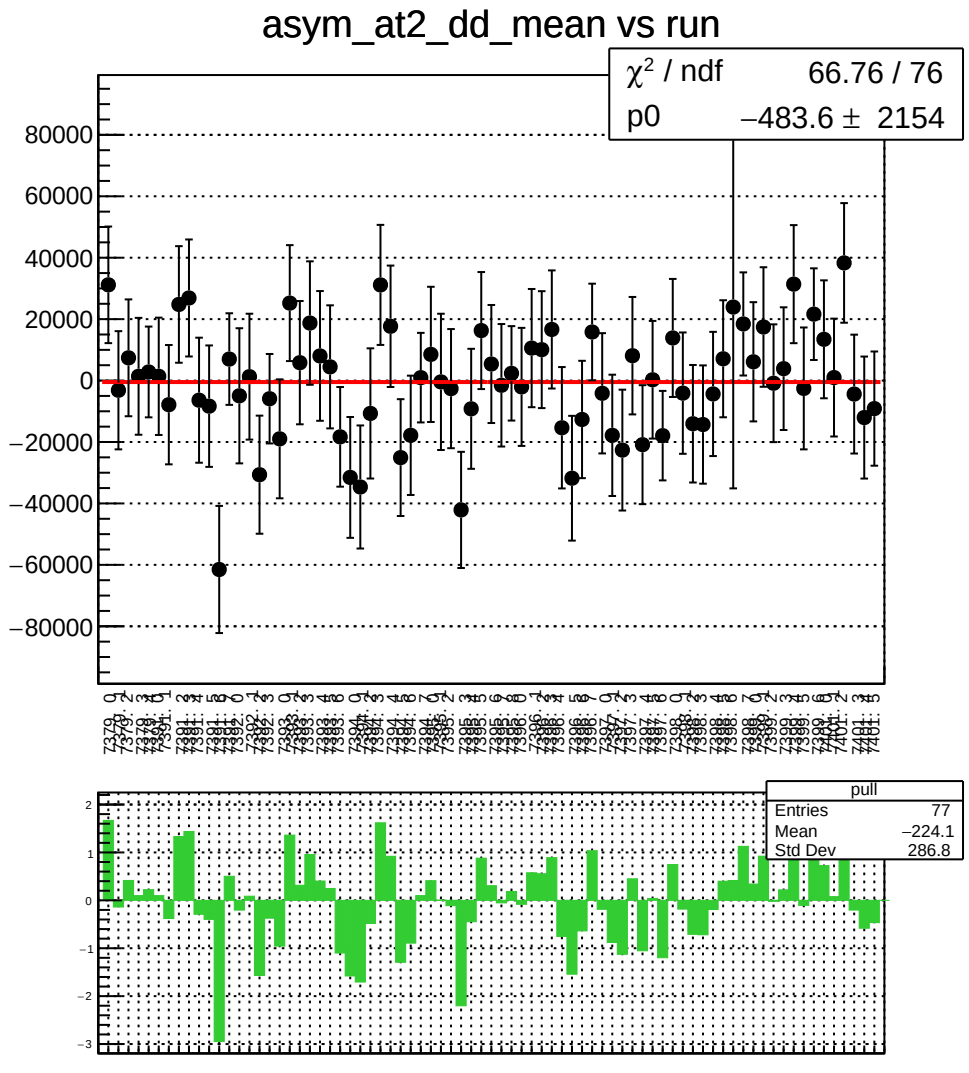

reg_asym_at2_dd_mean vs run
×10^3
χ² / ndf 63.23 / 76
p0 −406.8 ± 1824
pull
Entries 77
Mean 359.3
Std Dev 365.1

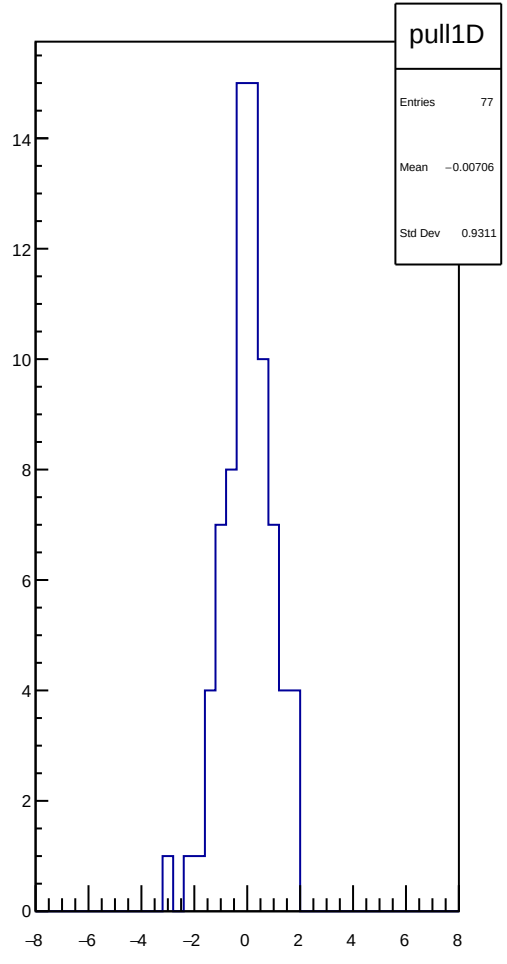

pull1D
Entries 77
Mean −0.002136
Std Dev 0.9062

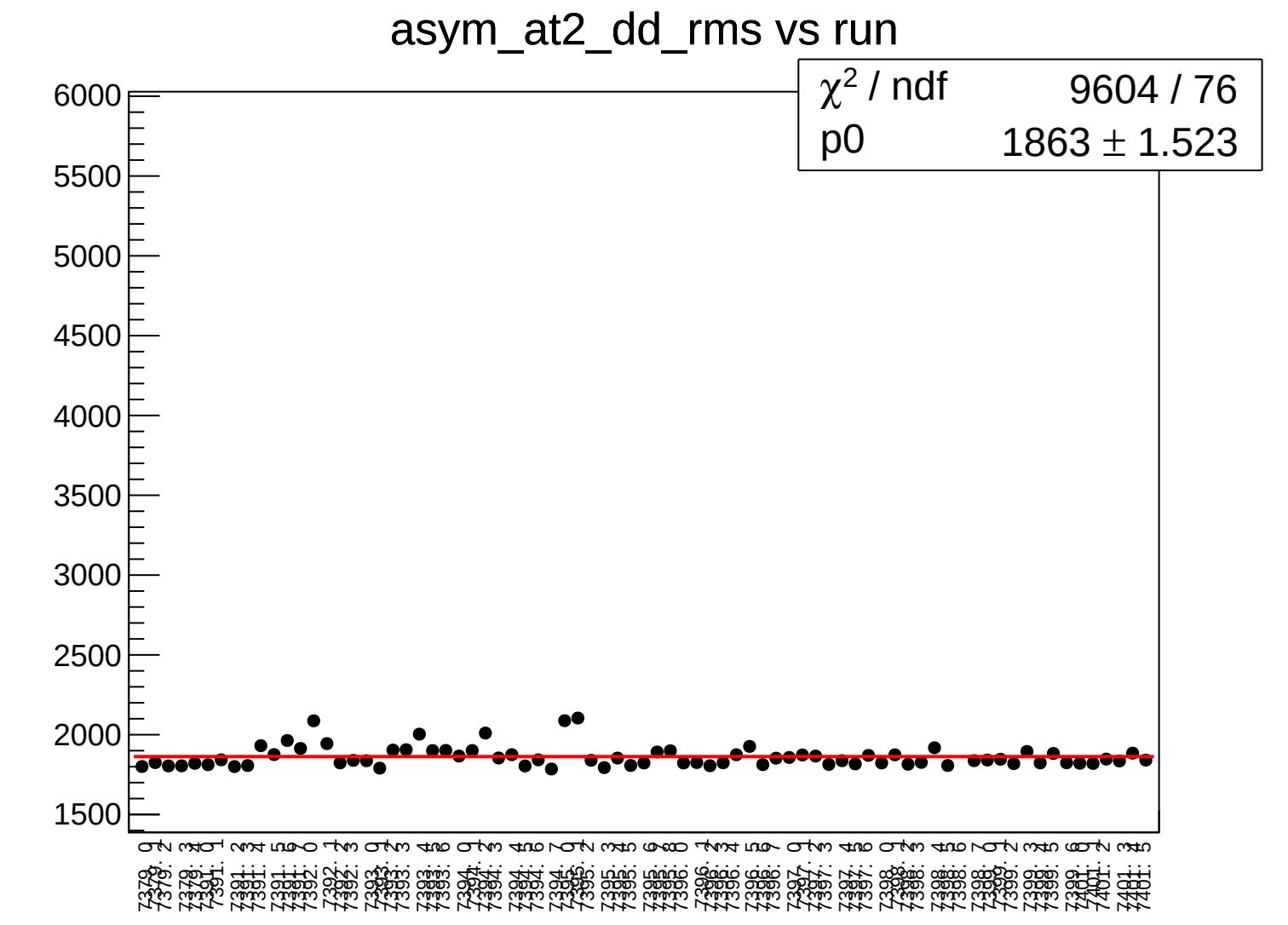

reg_asym_at2_dd_rms vs run
χ^2 / ndf 1.084e+04 / 76
p0 1577 ± 1.29
5500
5000
4500
4000
3500
3000
2500
2000
1500

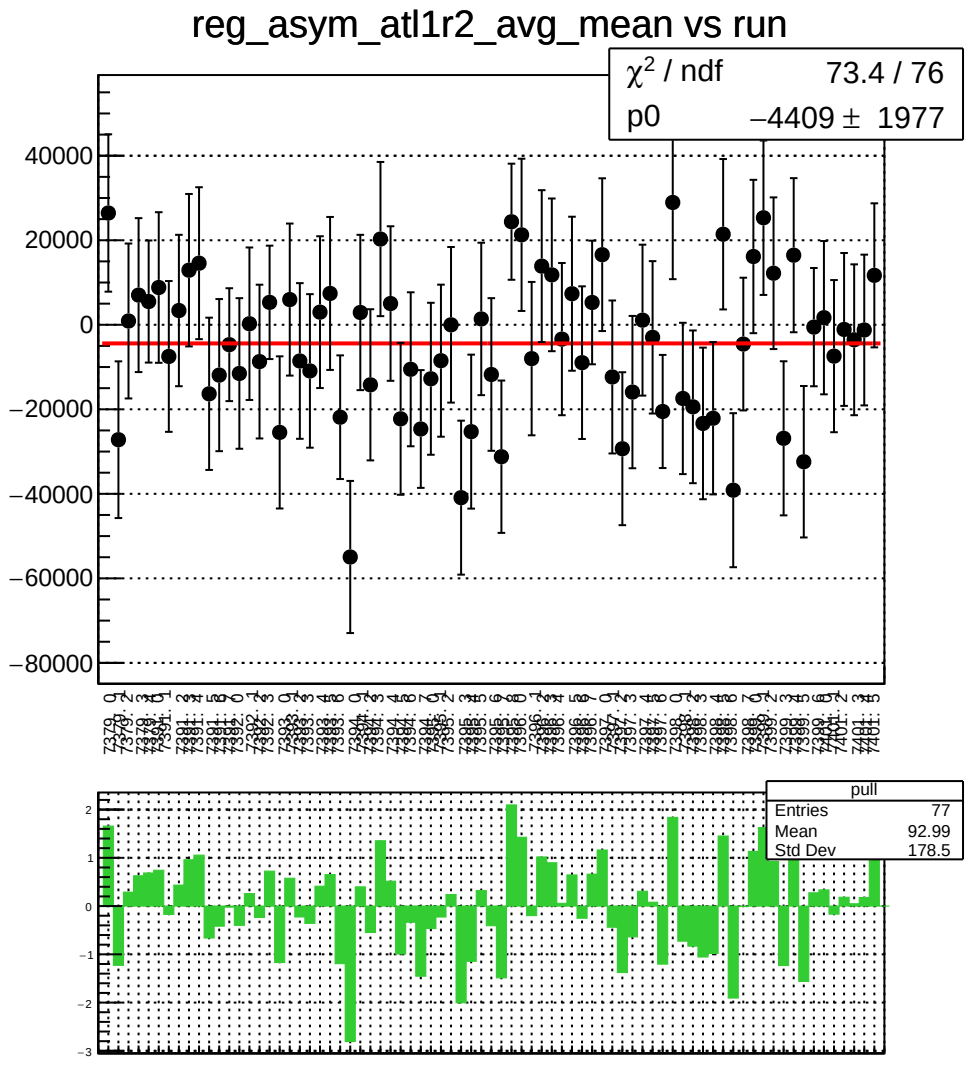

asym_at2_dd_correction_mean vs run
χ² / ndf 69.28 / 76
p0 −41.52 ± 1121
pull
Entries 77
Mean −152.5
Std Dev 199.6
pull1D
Entries 77
Mean 0.02115
Std Dev 0.9483

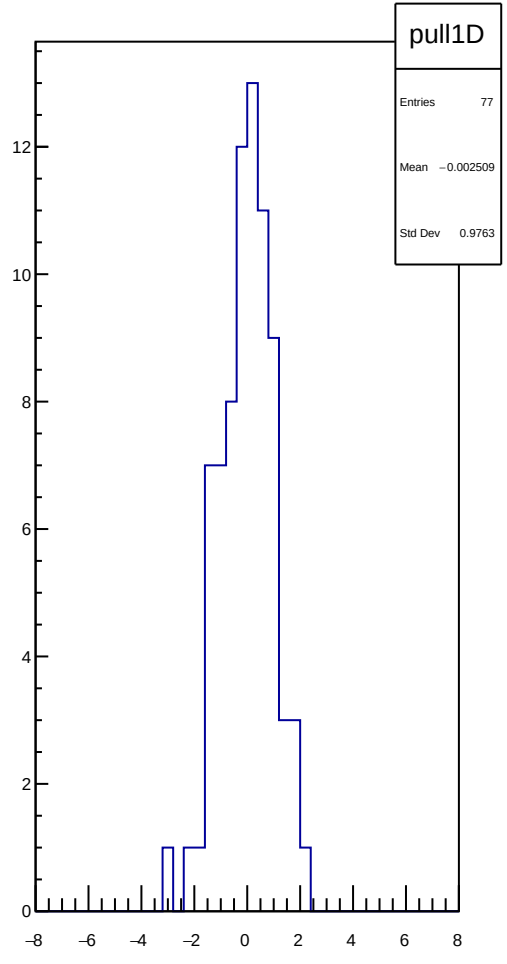

asym_at2_dd_correction_rms vs run
χ² / ndf 1.503e+04 / 76
p0 967.8 ± 0.7927
1300
1200
1100
1000
900
800
700

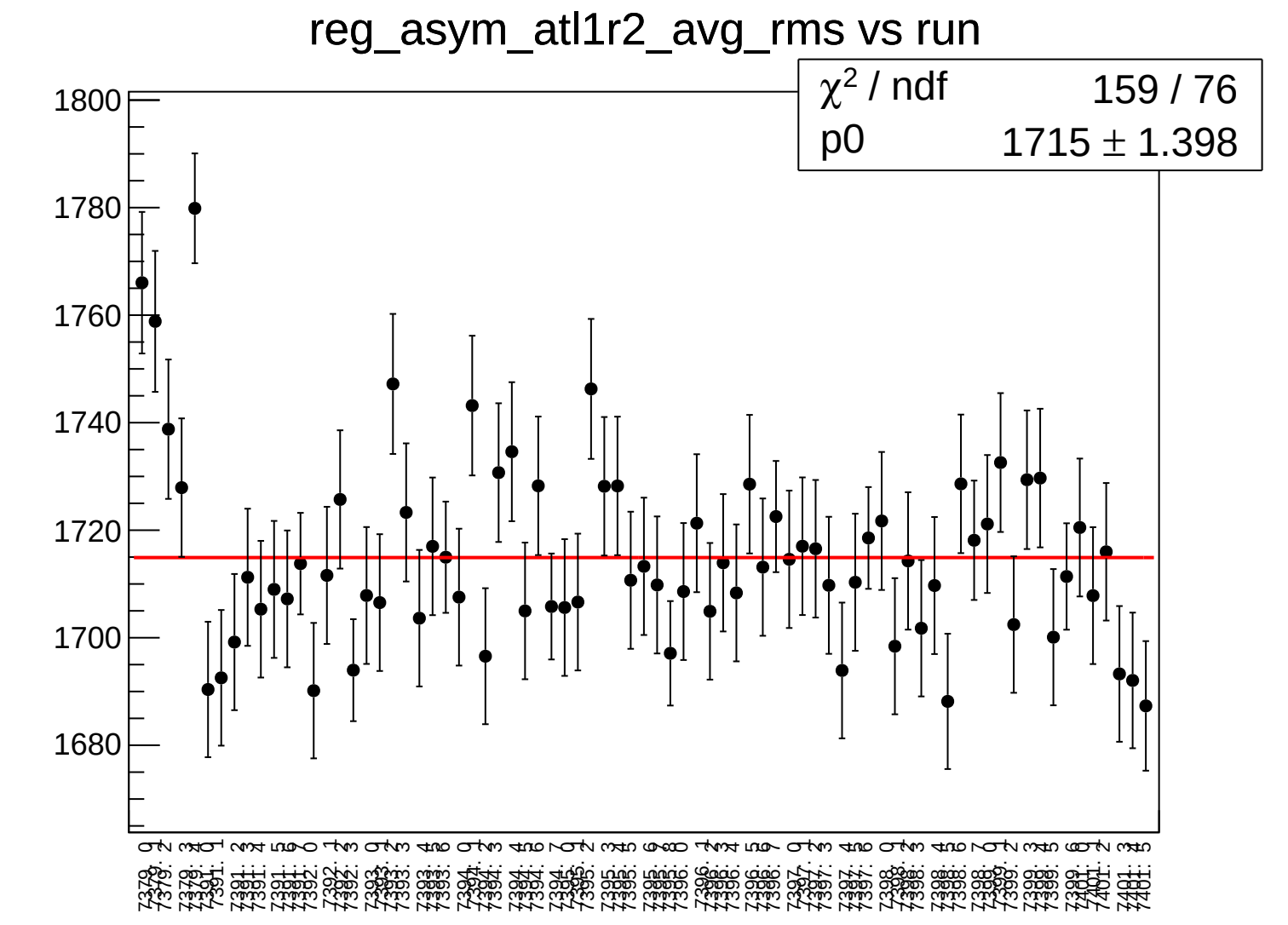

asym_at2_dd_mean vs run
χ² / ndf 66.76 / 76
p0 −483.6 ± 2154
pull
Entries 77
Mean −224.1
Std Dev 286.8

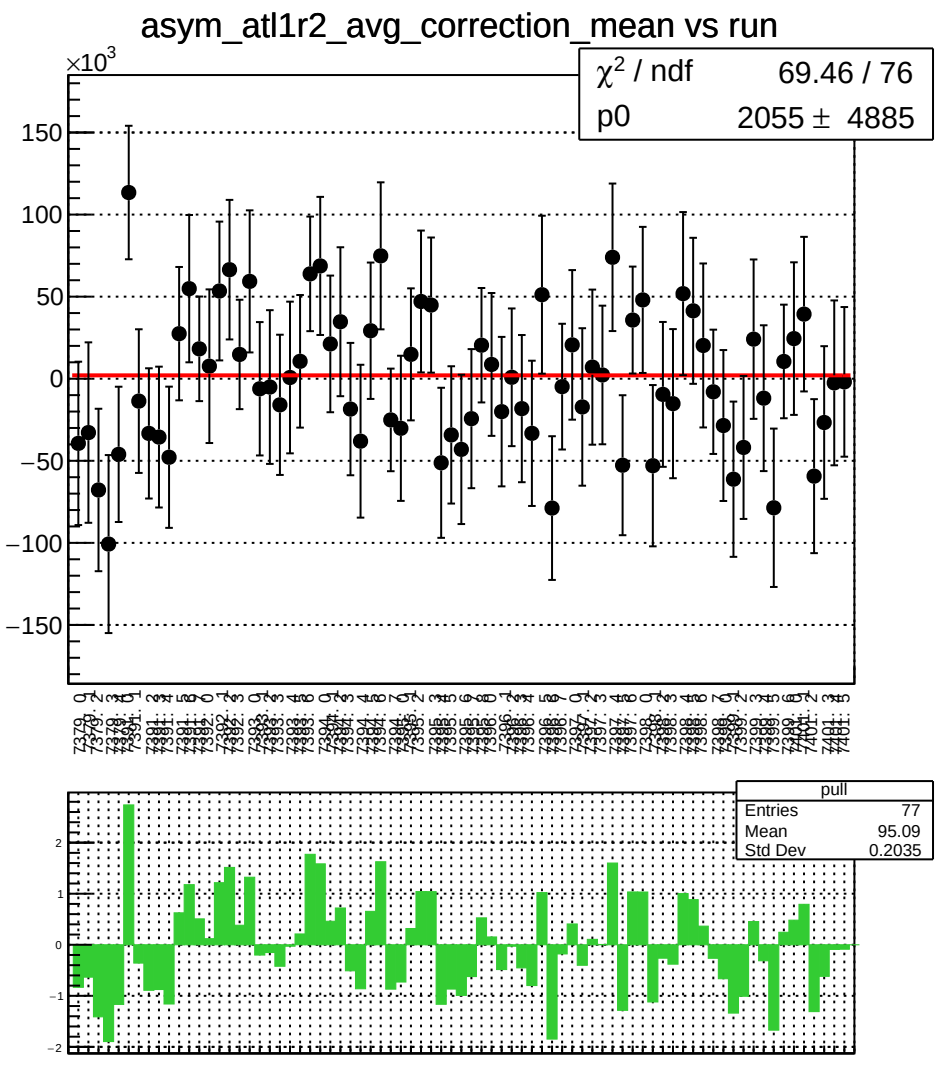

pull1D
Entries 77
Mean −0.00706
Std Dev 0.9311

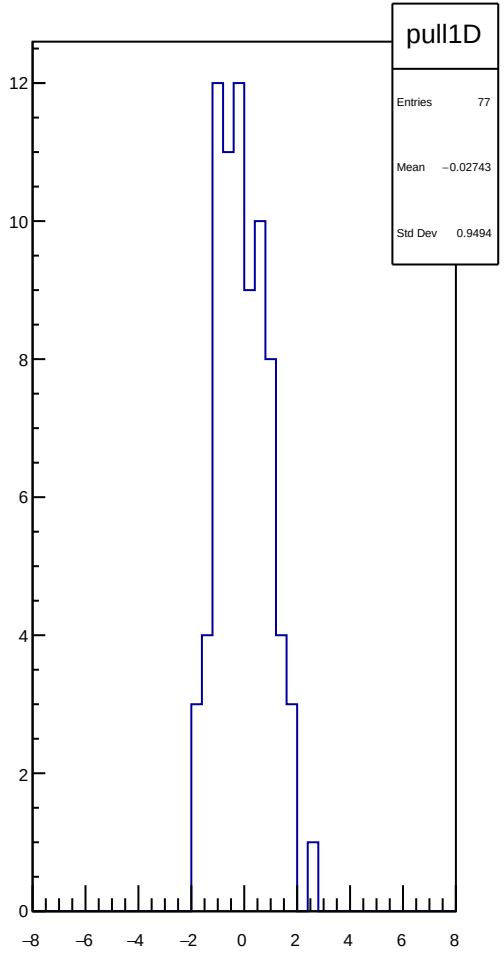

asym_at2_dd_rms vs run
χ^2 / ndf 9604 / 76
p0 1863 ± 1.523
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

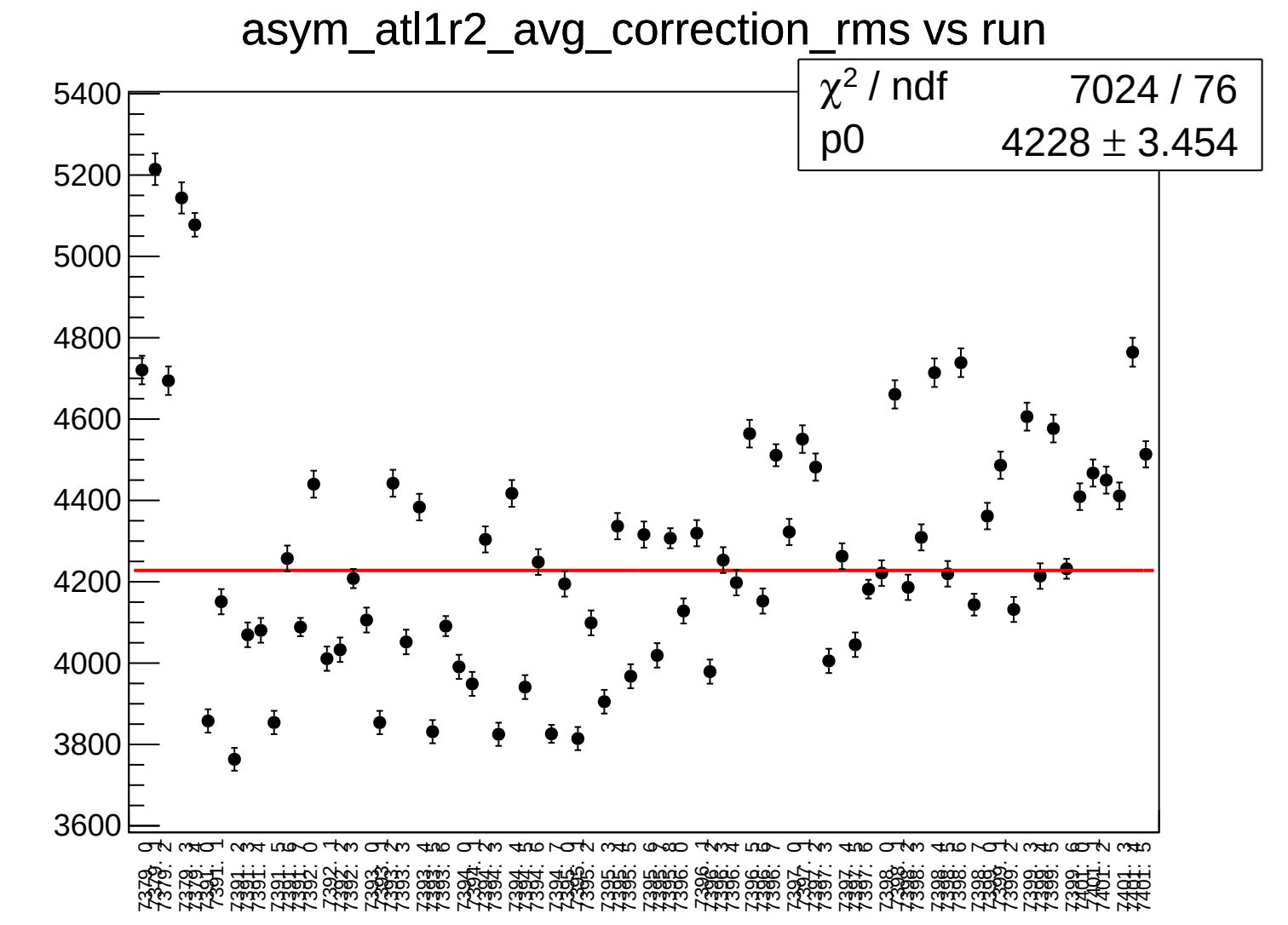

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 73.4 / 76
p0 −4409 ± 1977
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 77
Mean 92.99
Std Dev 178.5
2
1
0
−1
−2
−3

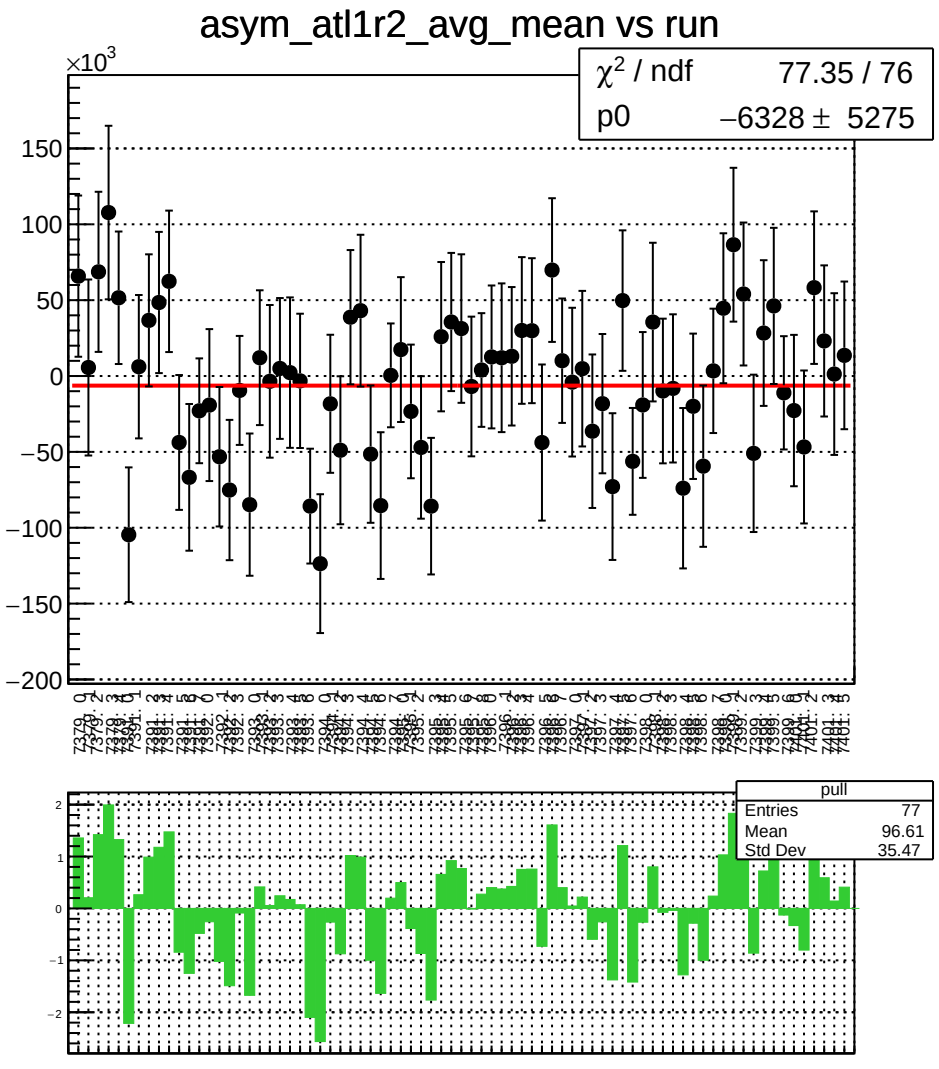

pull1D
Entries 77
Mean −0.002509
Std Dev 0.9763
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

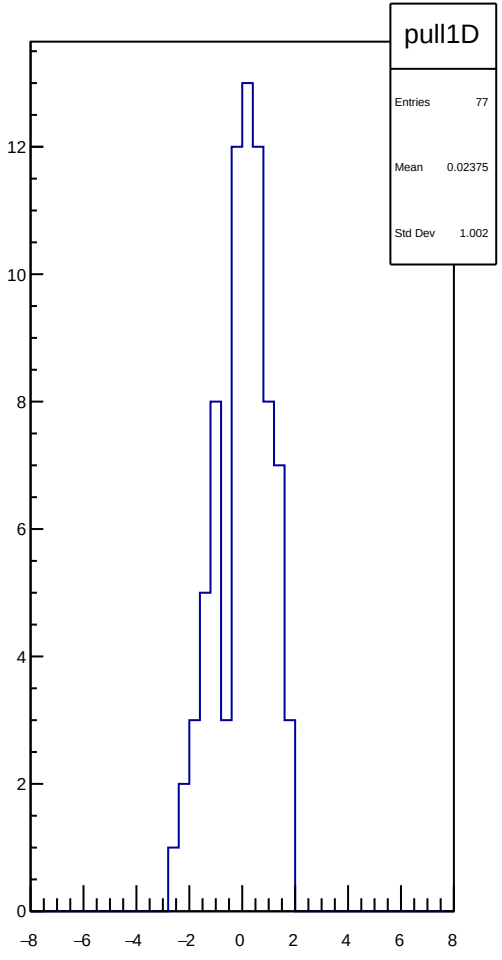

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 159 / 76
p0 1715 ± 1.398
1800
1780
1760
1740
1720
1700
1680

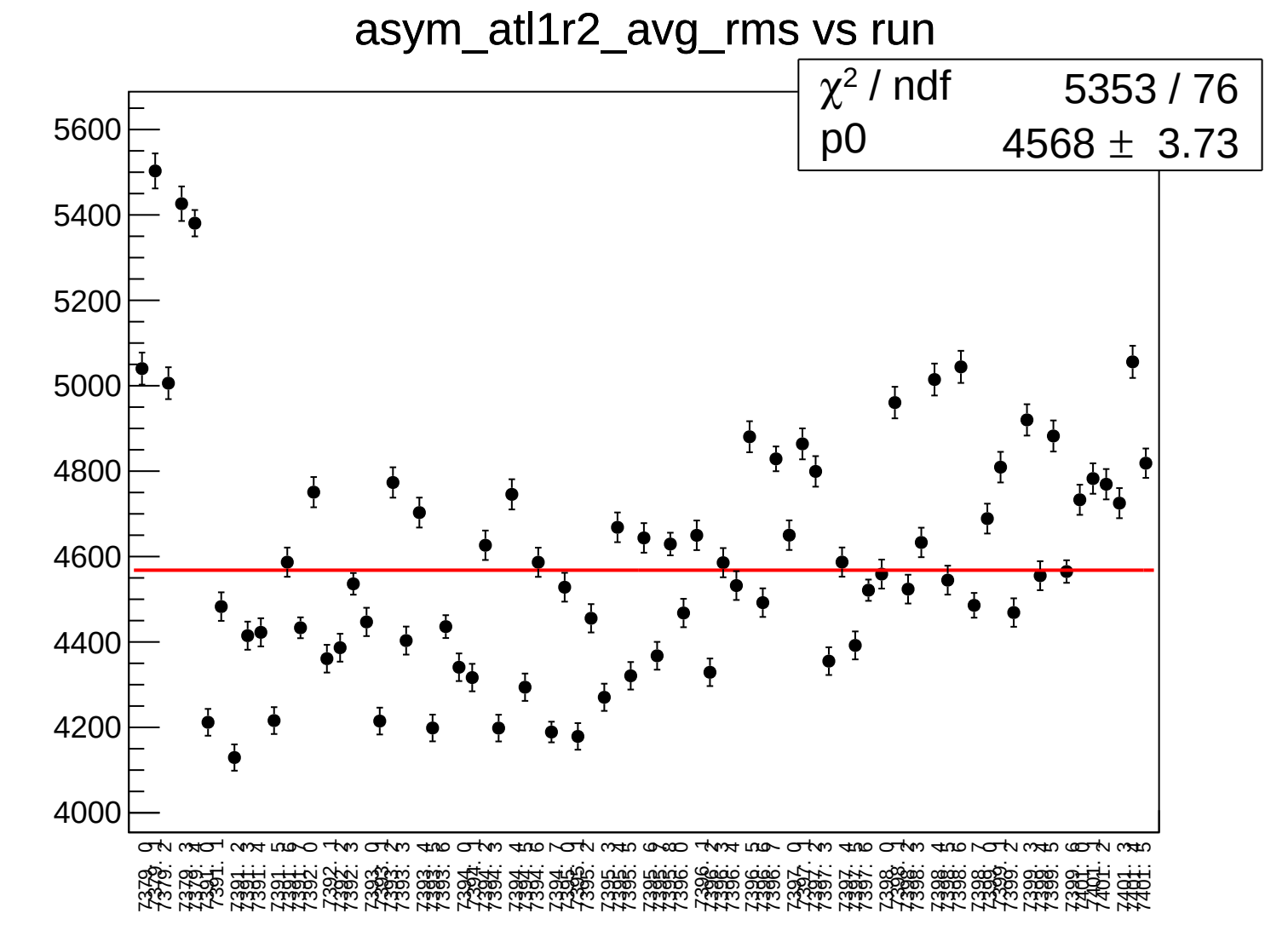

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 69.46 / 76
p0 2055 ± 4885
150
100
50
0
−50
−100
−150
pull
Entries 77
Mean 95.09
Std Dev 0.2035
2
1
0
−1
−2

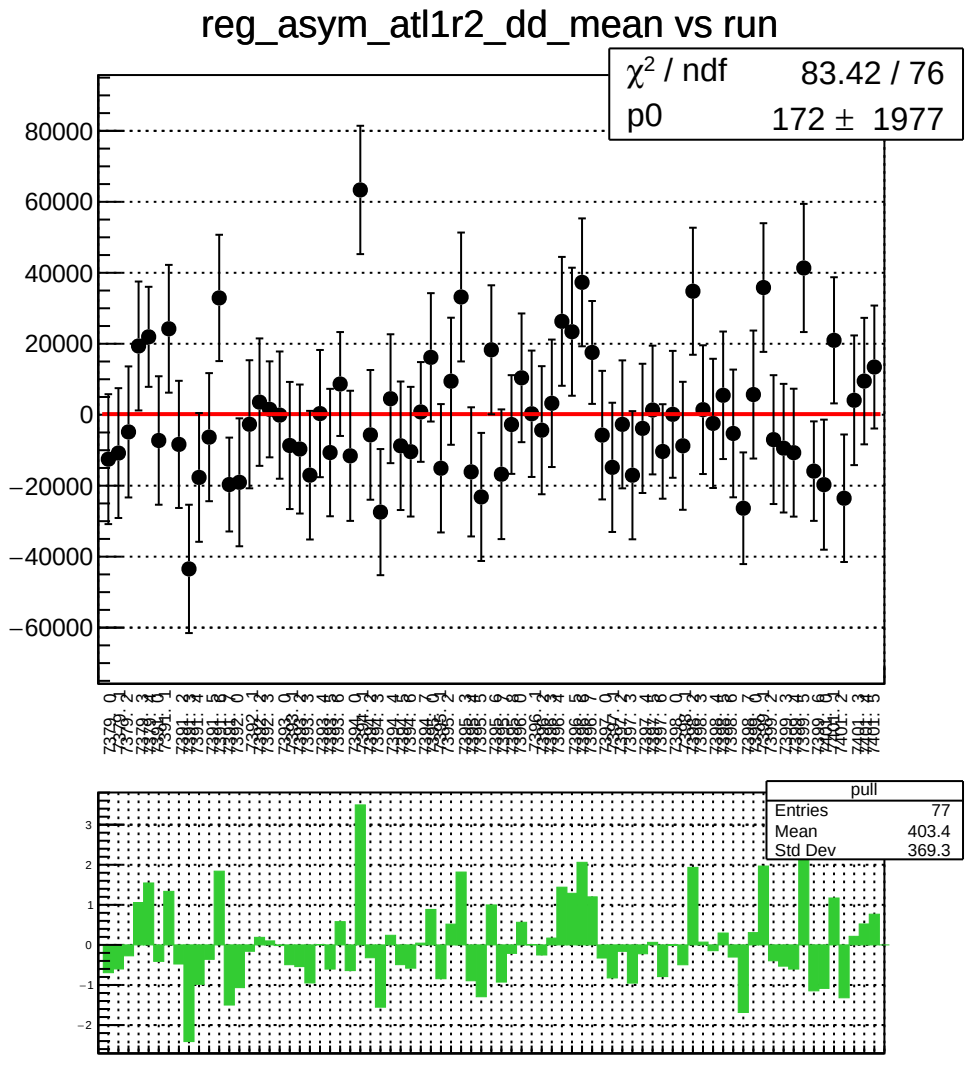

pull1D
Entries 77
Mean −0.02743
Std Dev 0.9494
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

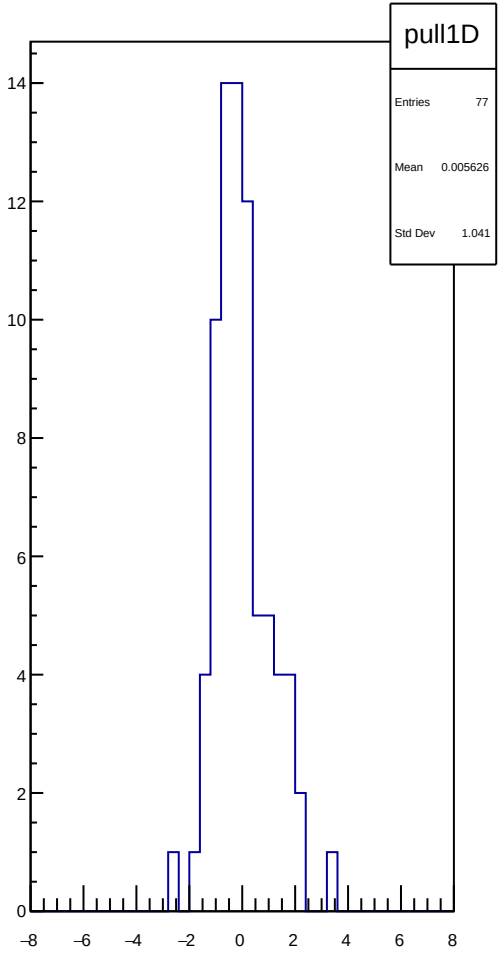

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 7024 / 76
p0 4228 ± 3.454
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

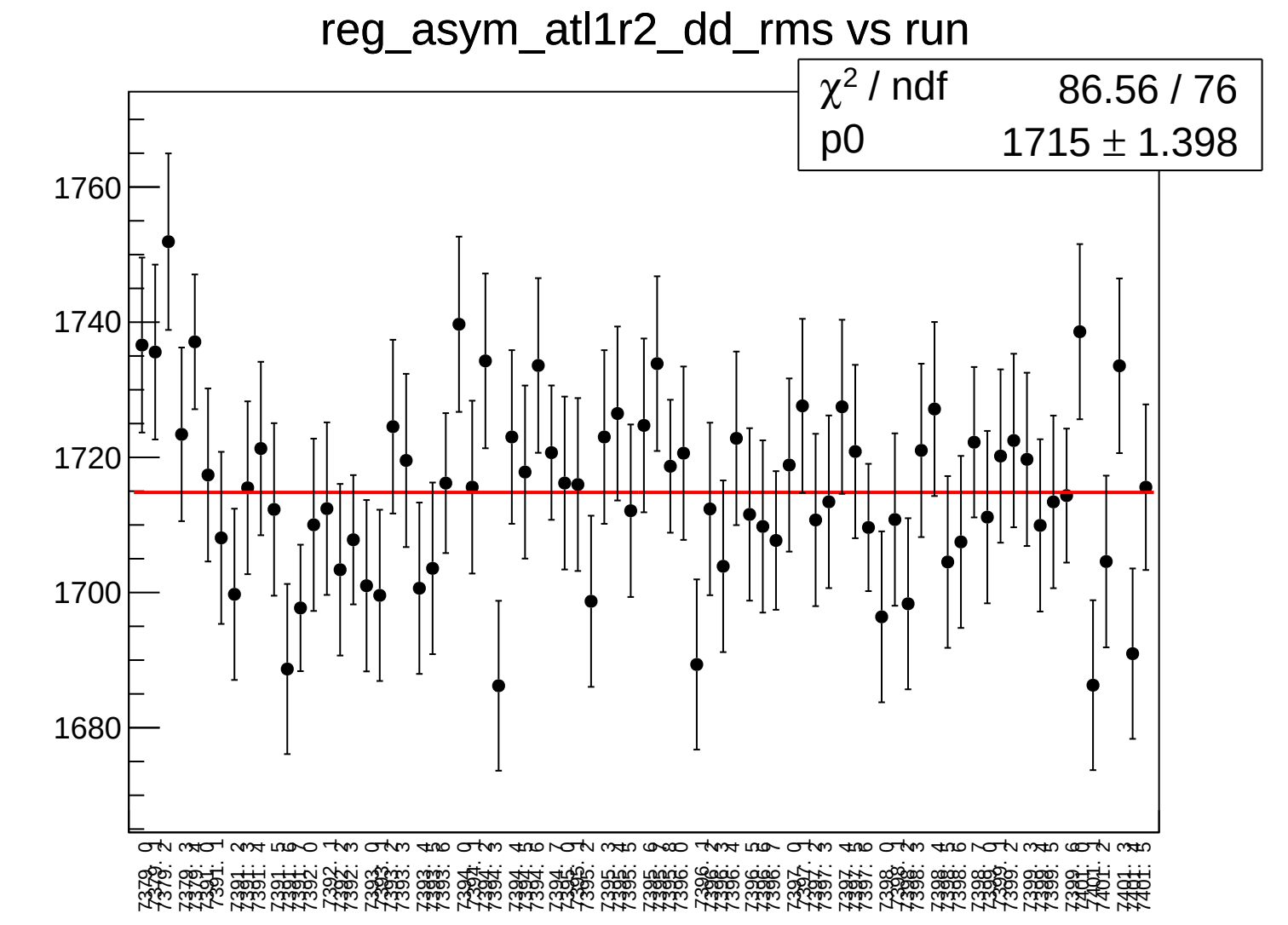

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 77.35 / 76
p0 −6328 ± 5275
150
100
50
0
−50
−100
−150
−200
pull
Entries 77
Mean 96.61
Std Dev 35.47
2
1
0
−1
−2

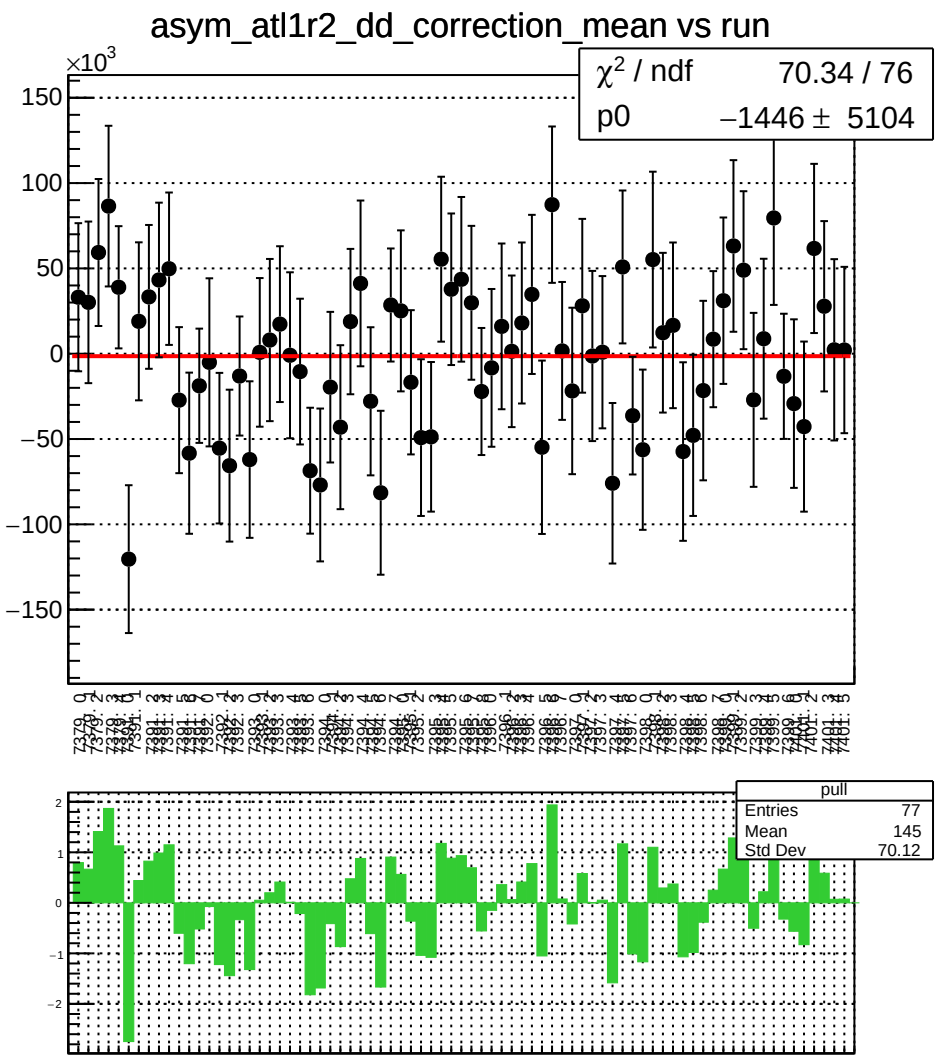

pull1D
Entries 77
Mean 0.02375
Std Dev 1.002
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

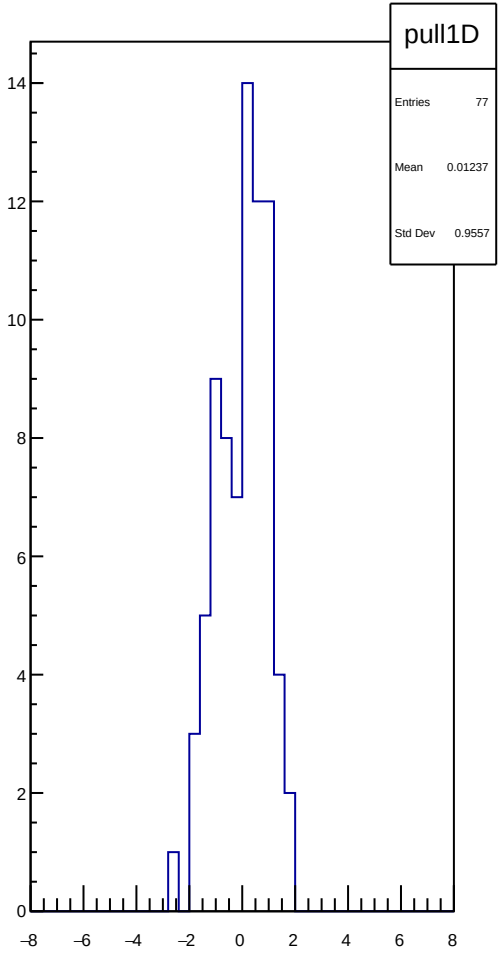

asym_atl1r2_avg_rms vs run
χ^2 / ndf 5353 / 76
p0 4568 ± 3.73
5600
5400
5200
5000
4800
4600
4400
4200
4000

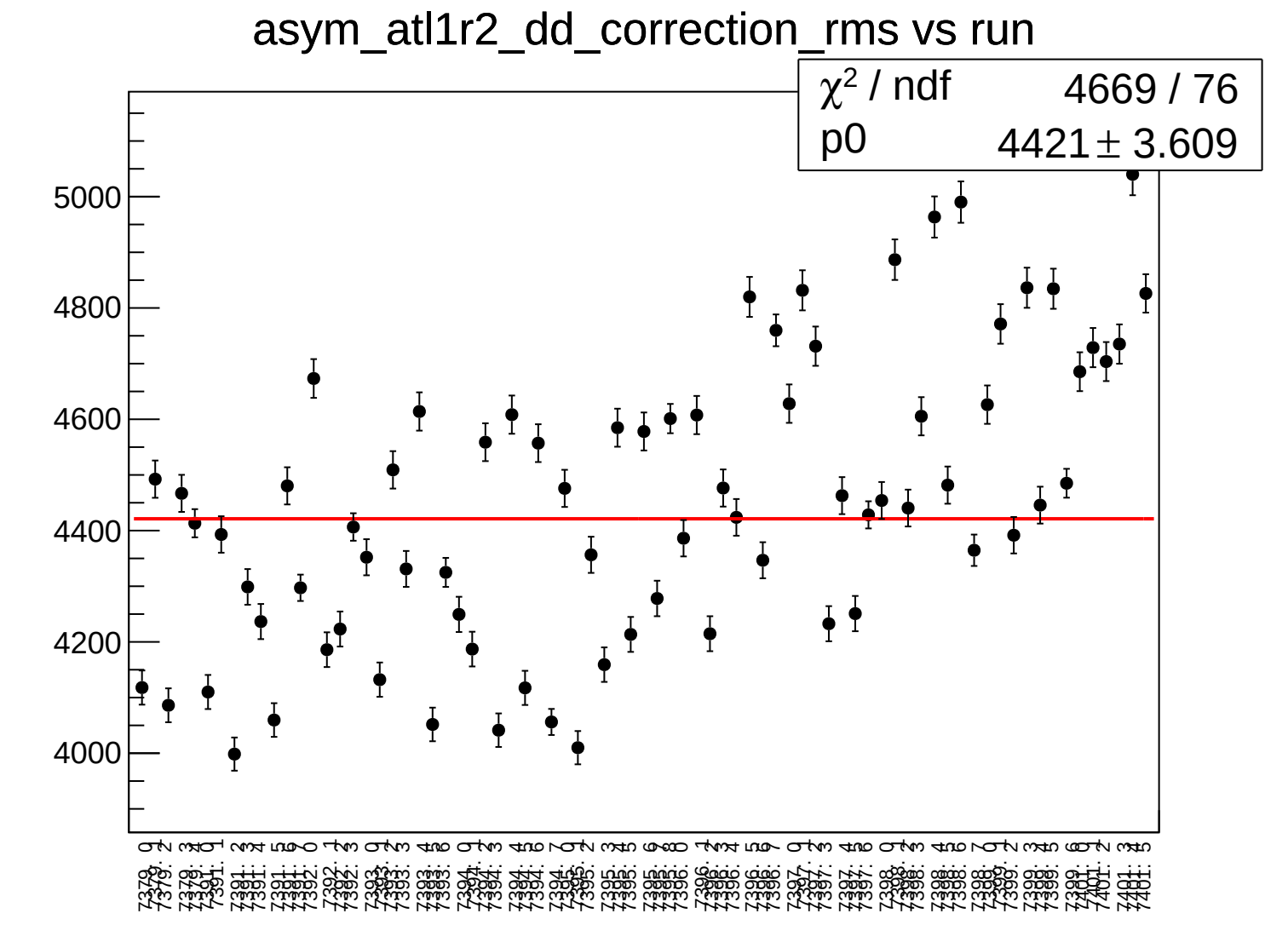

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 83.42 / 76
p0 172 ± 1977
pull
Entries 77
Mean 403.4
Std Dev 369.3

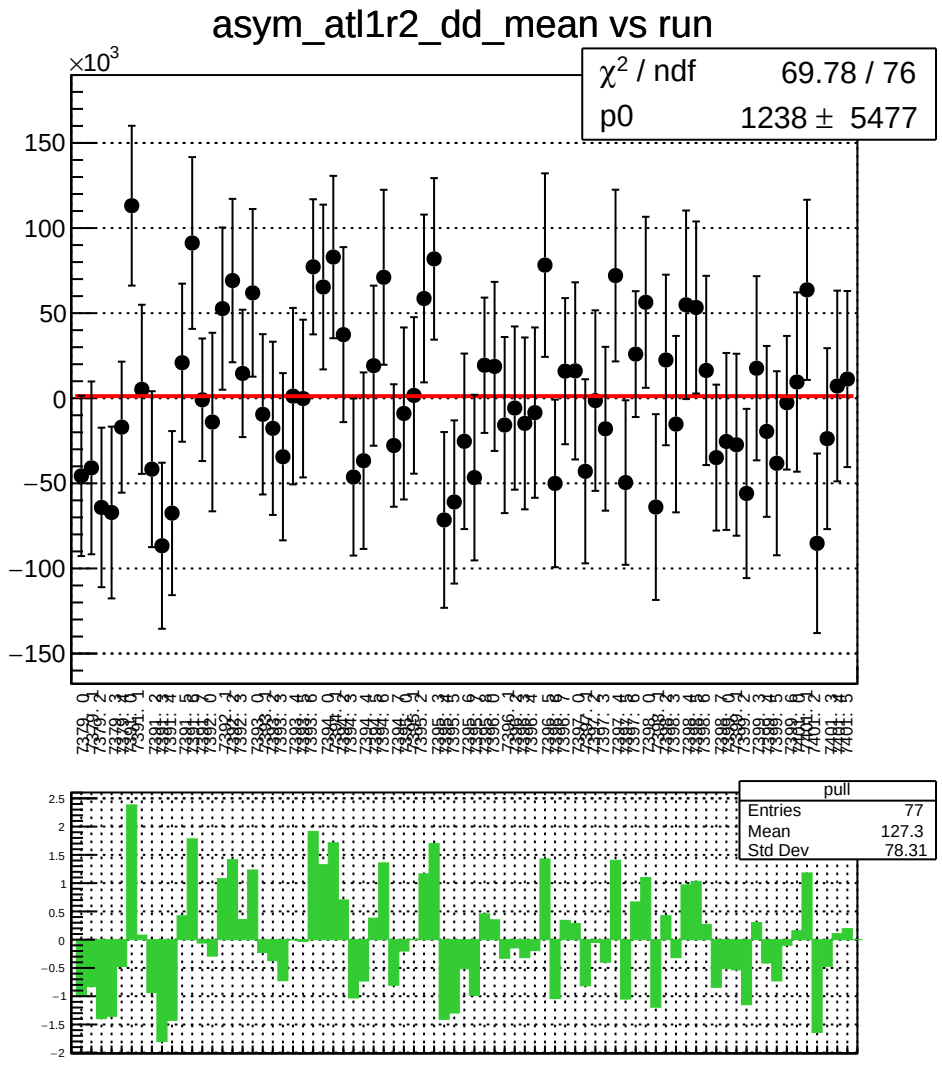

pull1D
Entries 77
Mean 0.005626
Std Dev 1.041

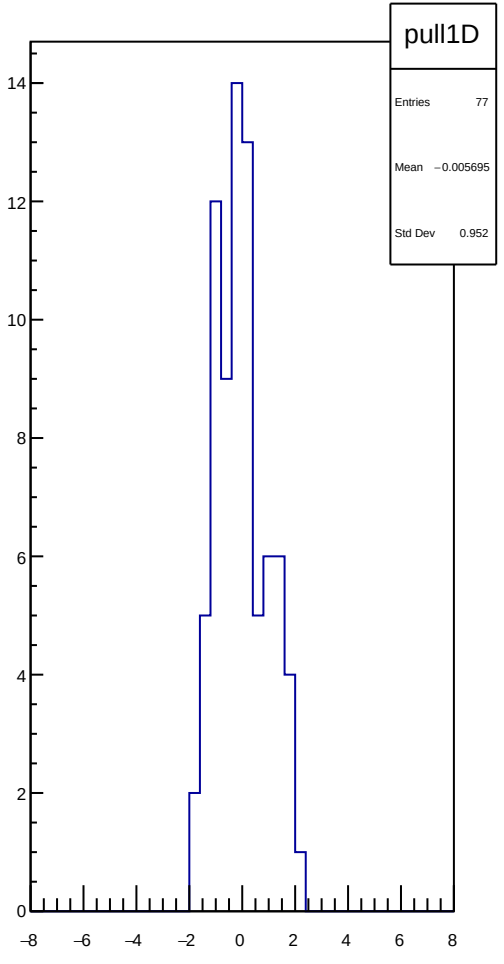

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 86.56 / 76
p0 1715 ± 1.398
1760
1740
1720
1700
1680

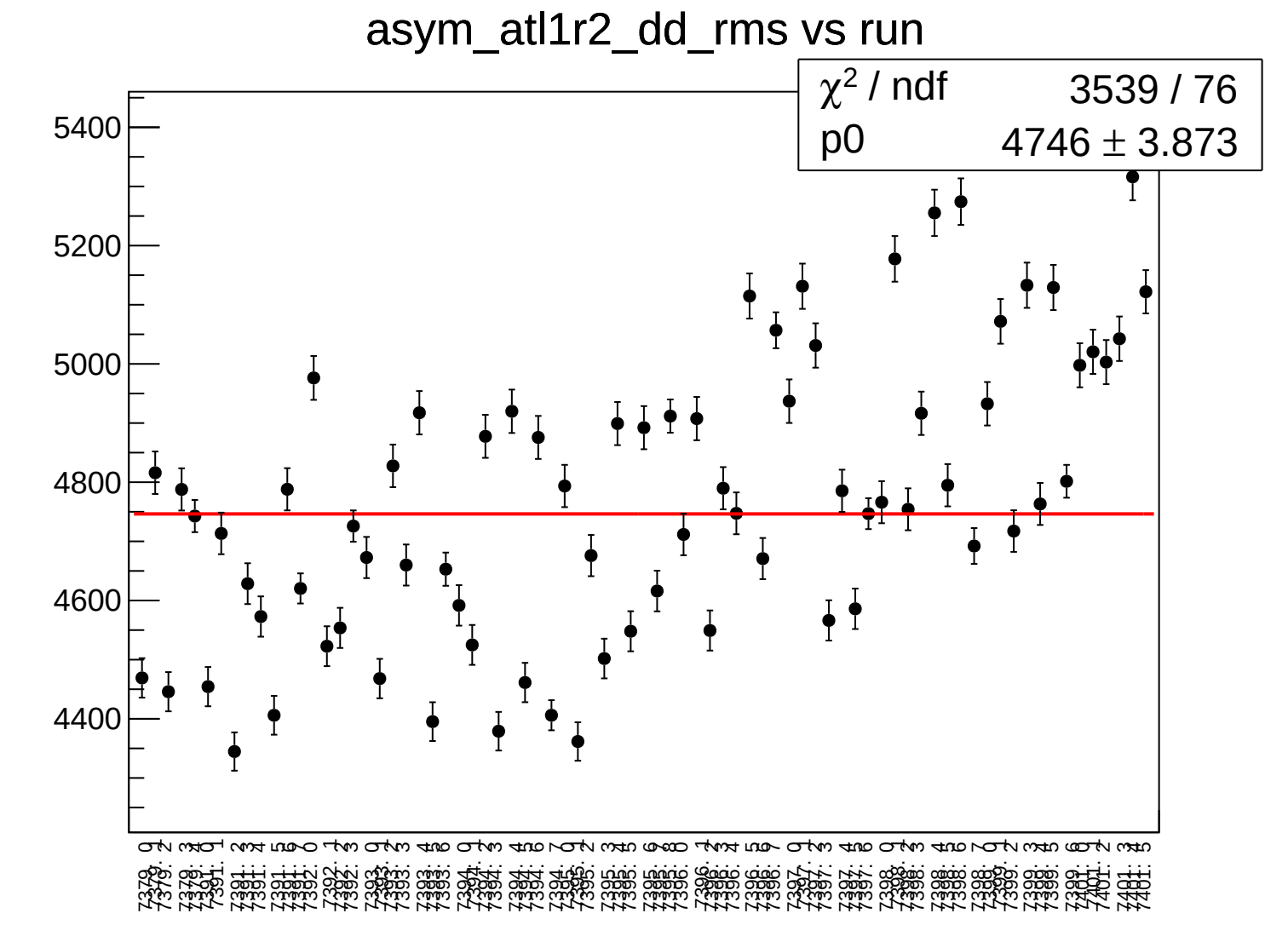

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 70.34 / 76
p0 −1446 ± 5104
pull
Entries 77
Mean 145
Std Dev 70.12

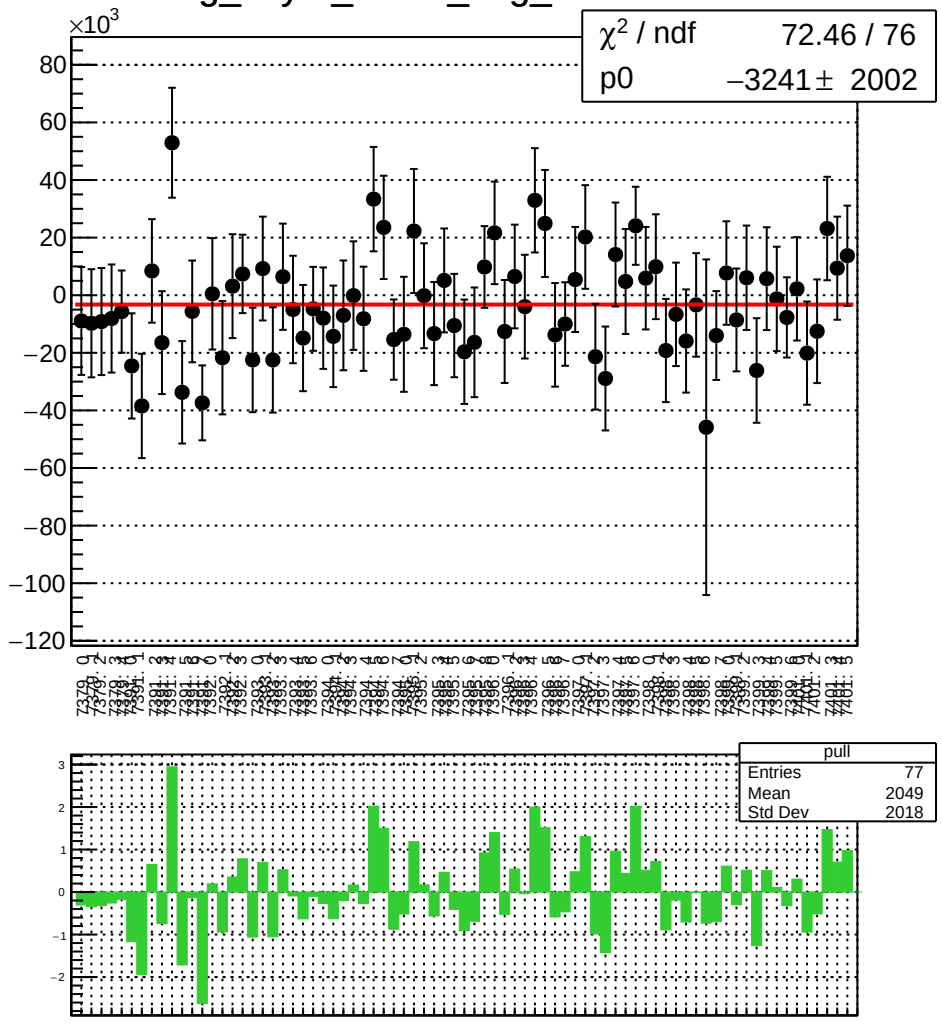

pull1D
Entries 77
Mean 0.01237
Std Dev 0.9557

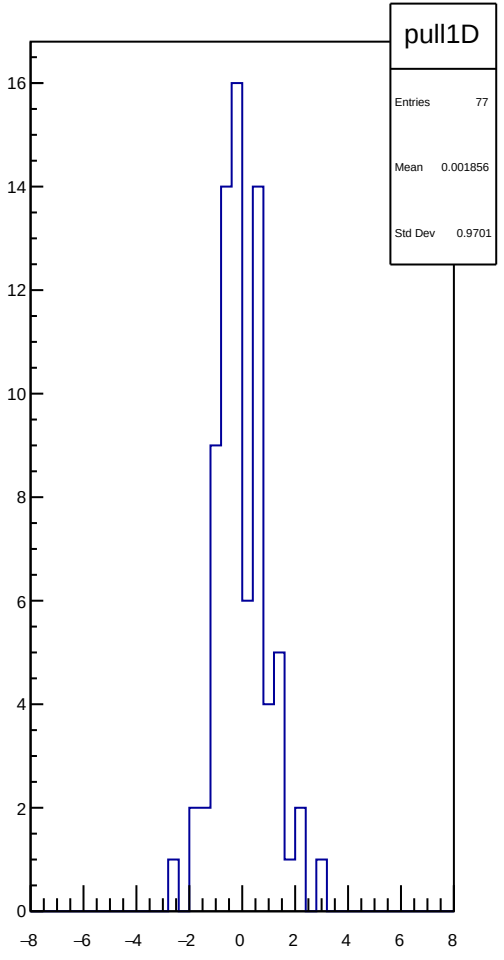

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 4669 / 76
p0 4421 ± 3.609
5000
4800
4600
4400
4200
4000

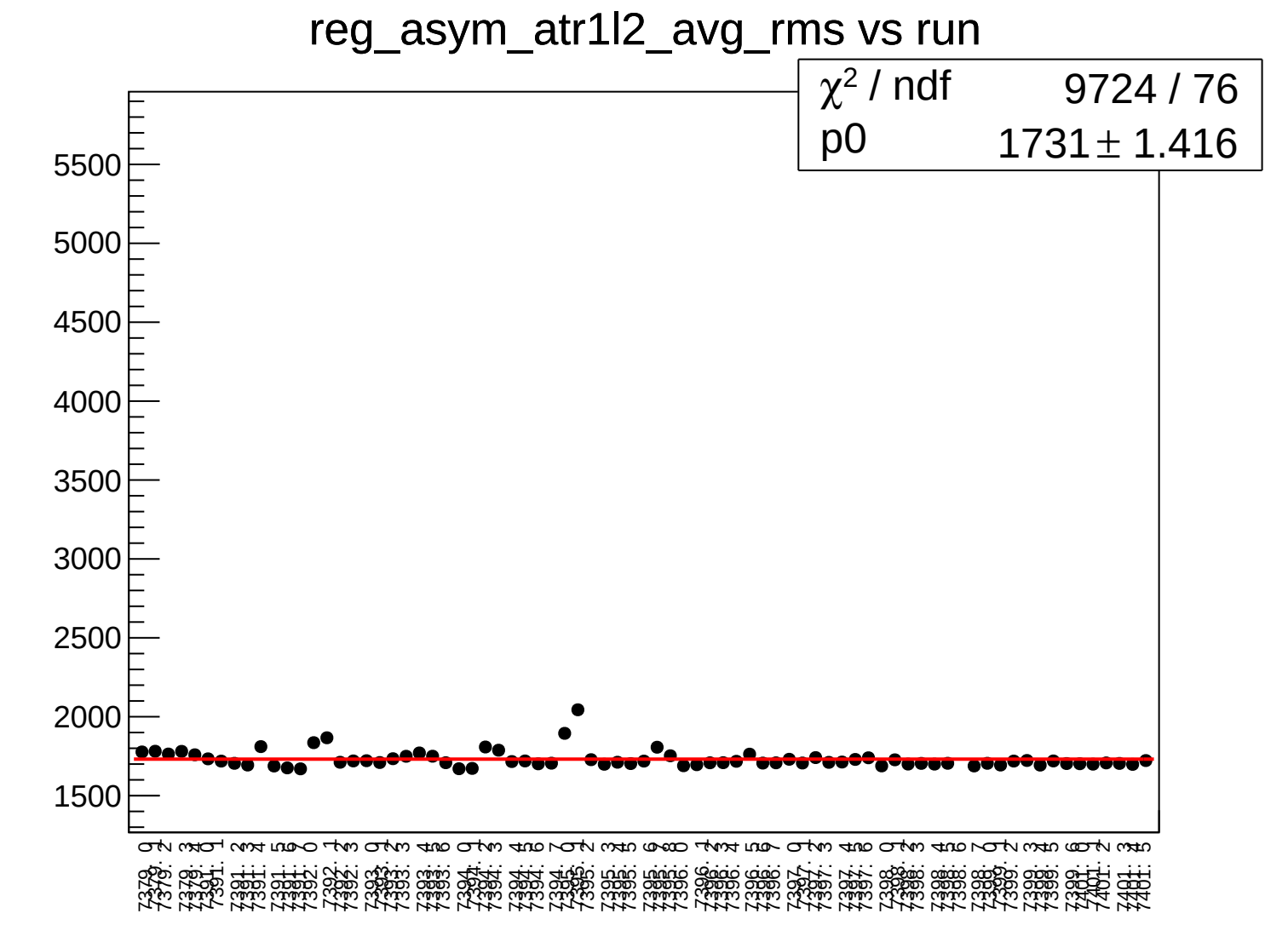

asym_atl1r2_dd_mean vs run
χ^2 / ndf 69.78 / 76
p0 1238 ± 5477
×10^3
150
100
50
0
−50
−100
−150
pull
Entries 77
Mean 127.3
Std Dev 78.31
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

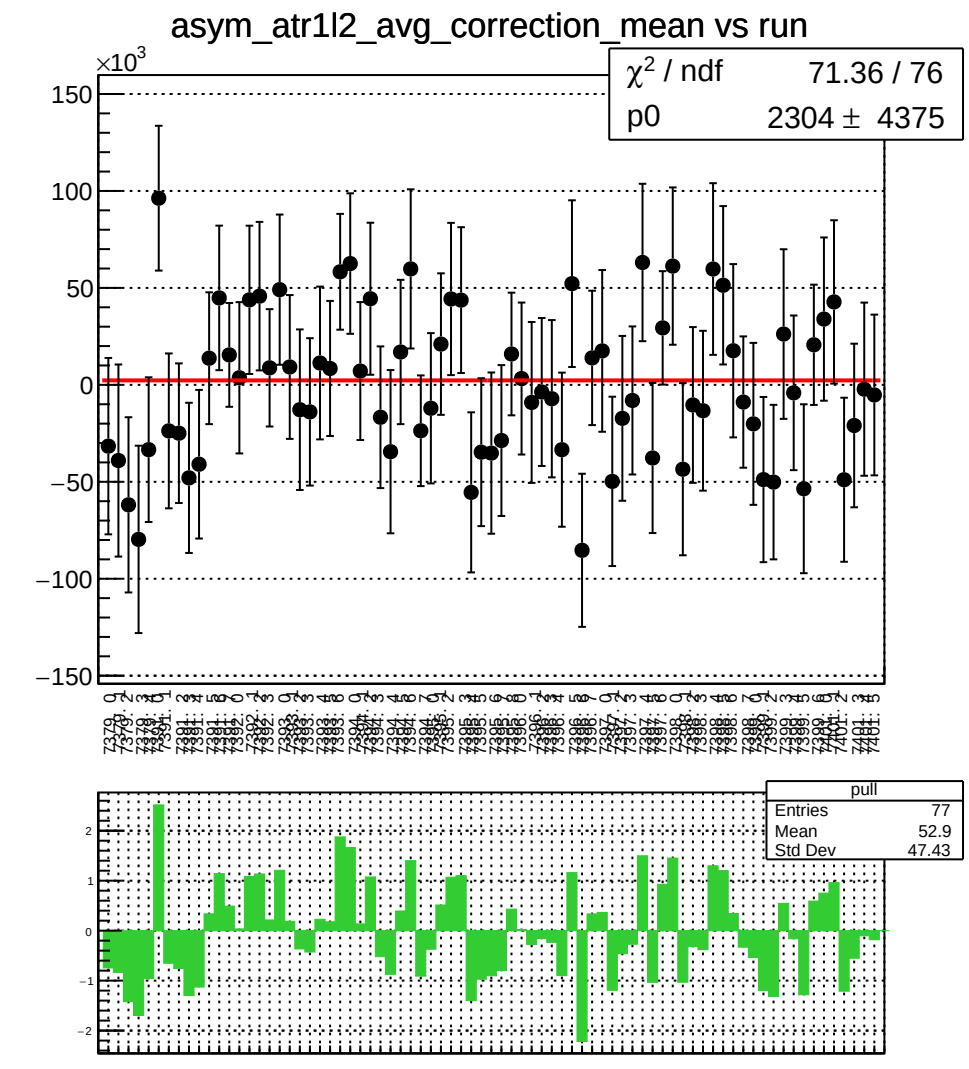

pull1D
Entries 77
Mean −0.005695
Std Dev 0.952
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

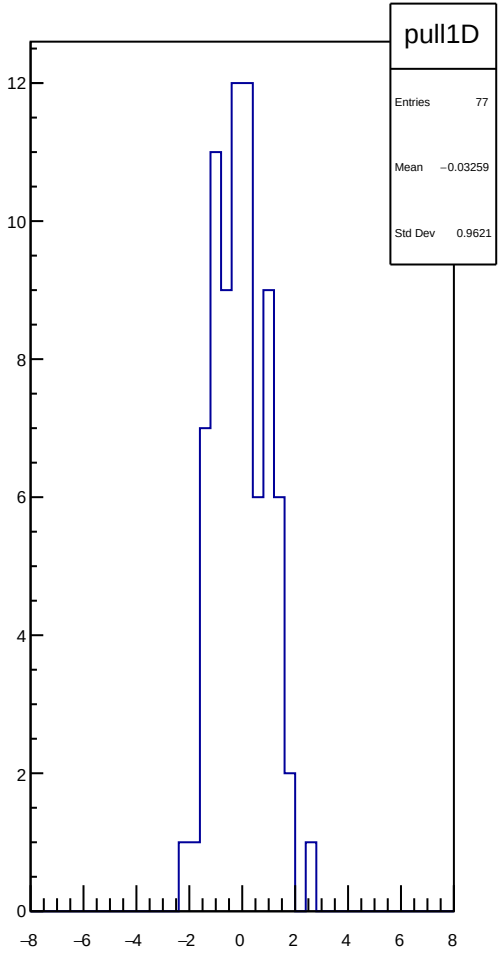

asym_atl1r2_dd_rms vs run
χ² / ndf 3539 / 76
p0 4746 ± 3.873
5400
5200
5000
4800
4600
4400

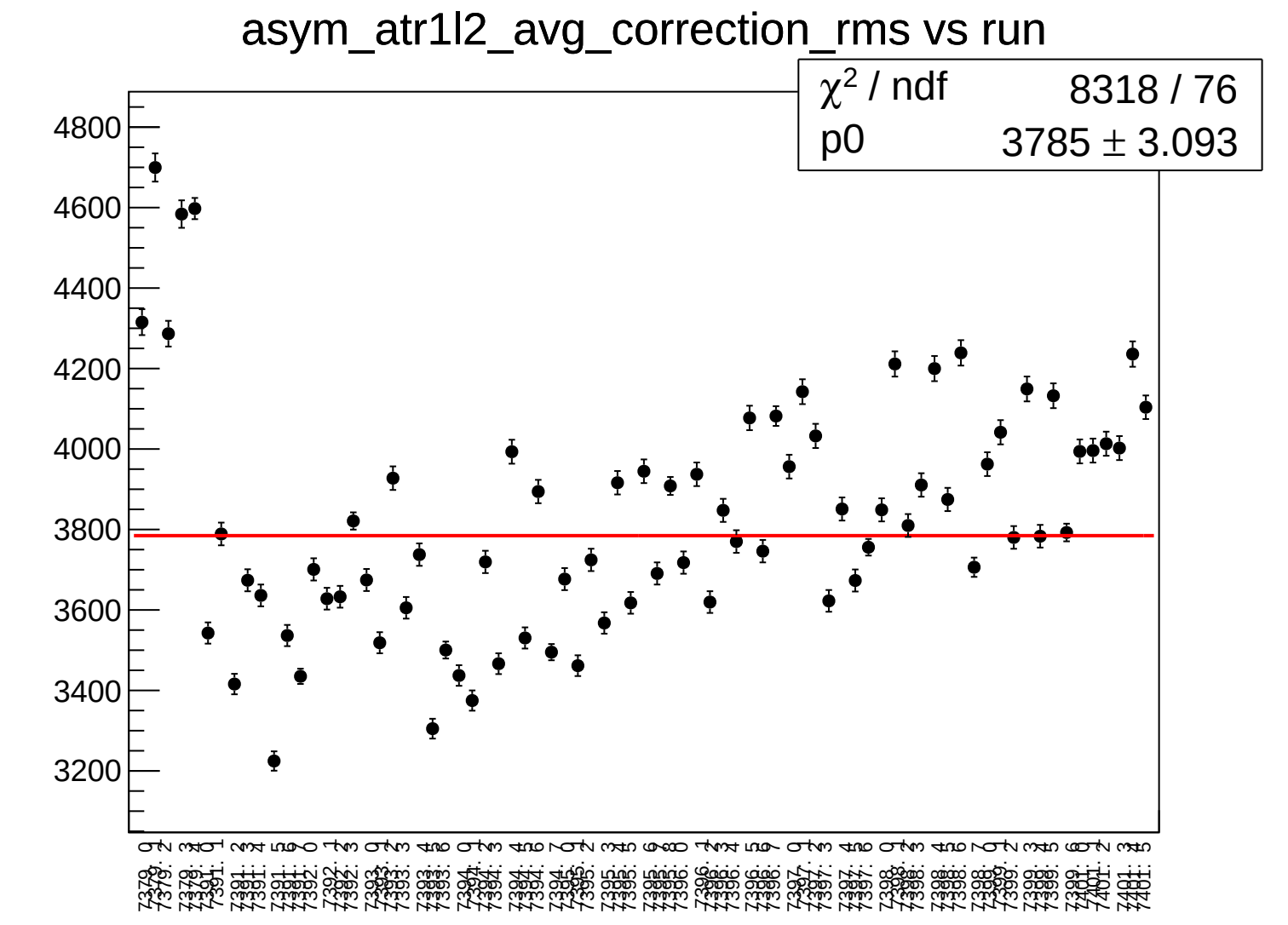

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 72.46 / 76
p0 −3241 ± 2002
pull
Entries 77
Mean 2049
Std Dev 2018

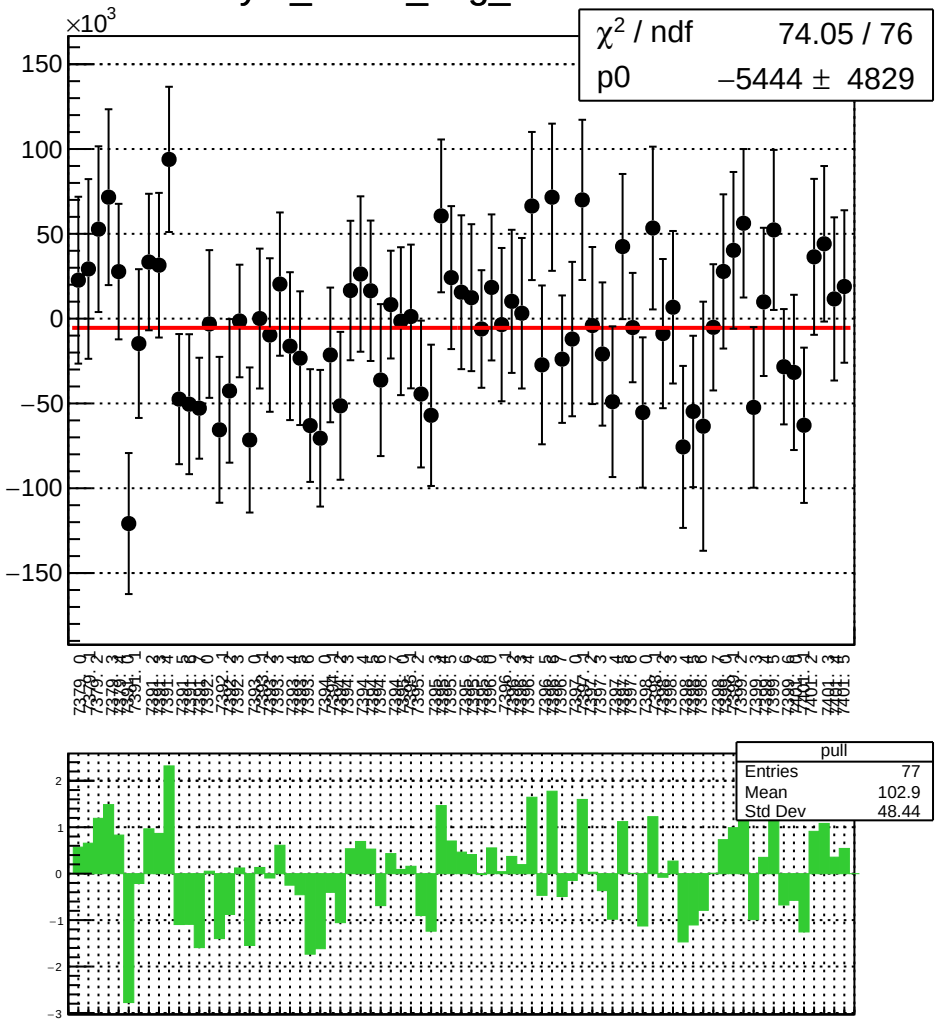

pull1D
Entries 77
Mean 0.001856
Std Dev 0.9701

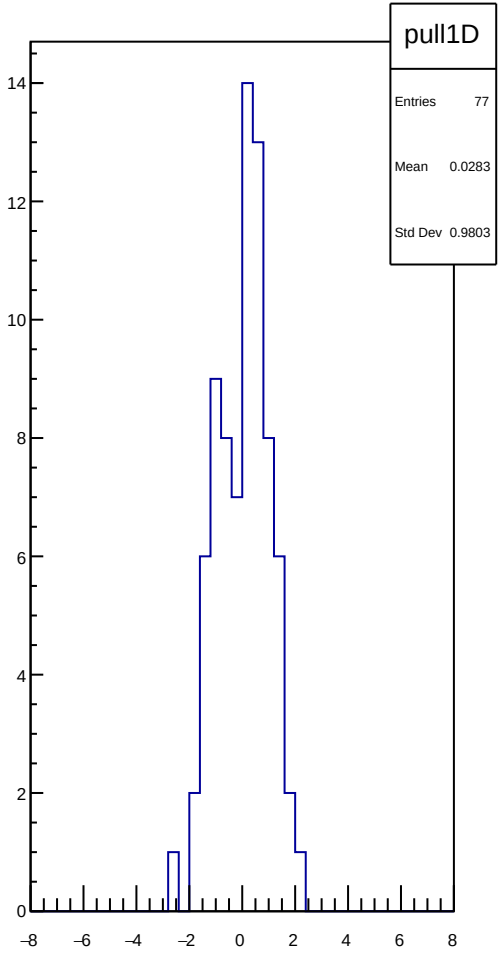

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 9724 / 76
p0 1731 ± 1.416
5500
5000
4500
4000
3500
3000
2500
2000
1500

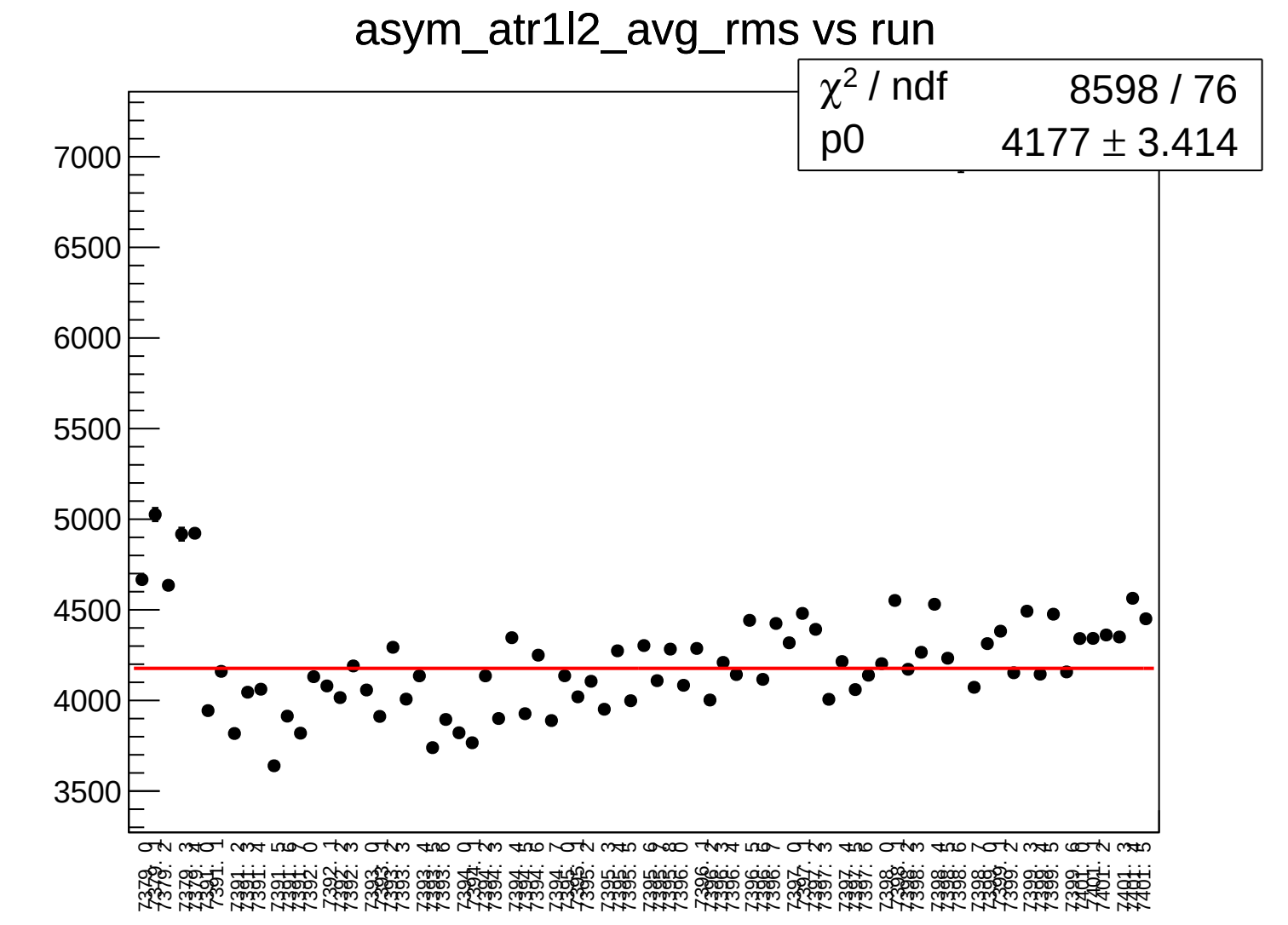

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 71.36 / 76
p0 2304 ± 4375
150
100
50
0
−50
−100
−150
pull
Entries 77
Mean 52.9
Std Dev 47.43
2
1
0
−1
−2

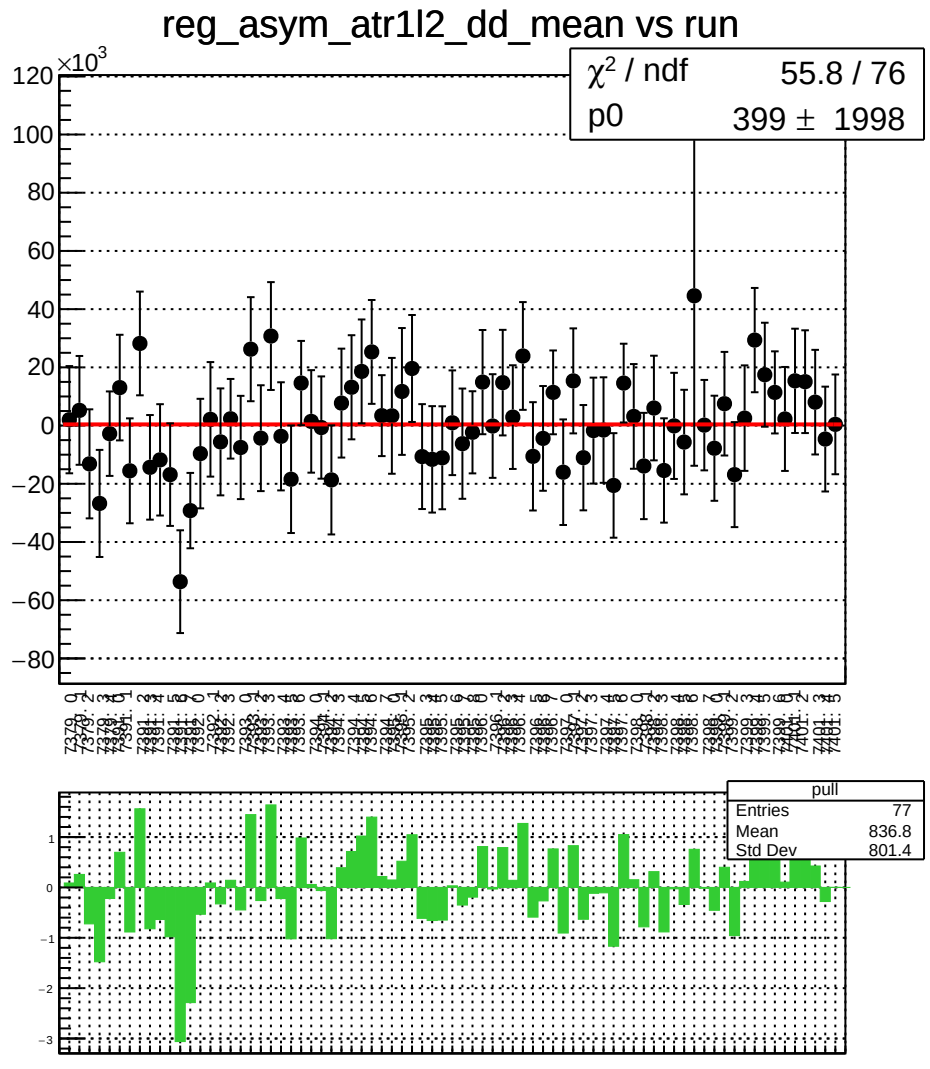

pull1D
Entries 77
Mean −0.03259
Std Dev 0.9621
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

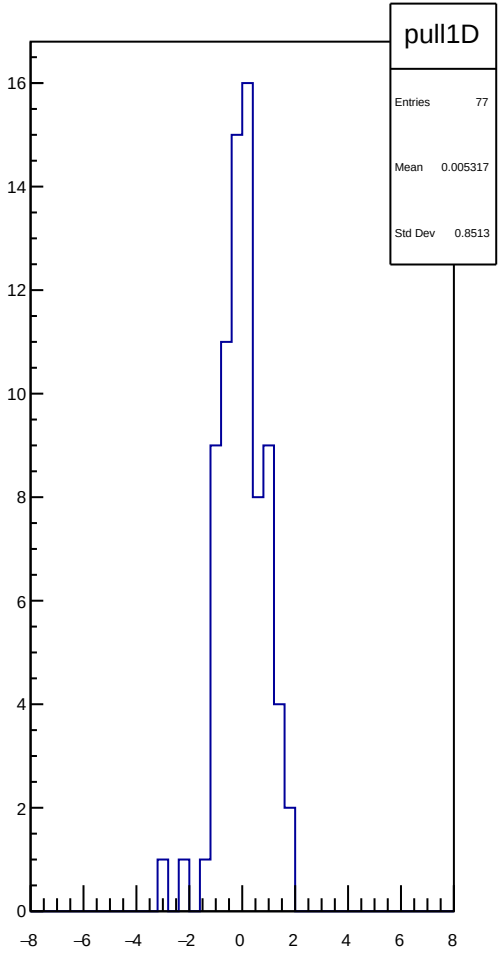

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 8318 / 76
p0 3785 ± 3.093
4800
4600
4400
4200
4000
3800
3600
3400
3200

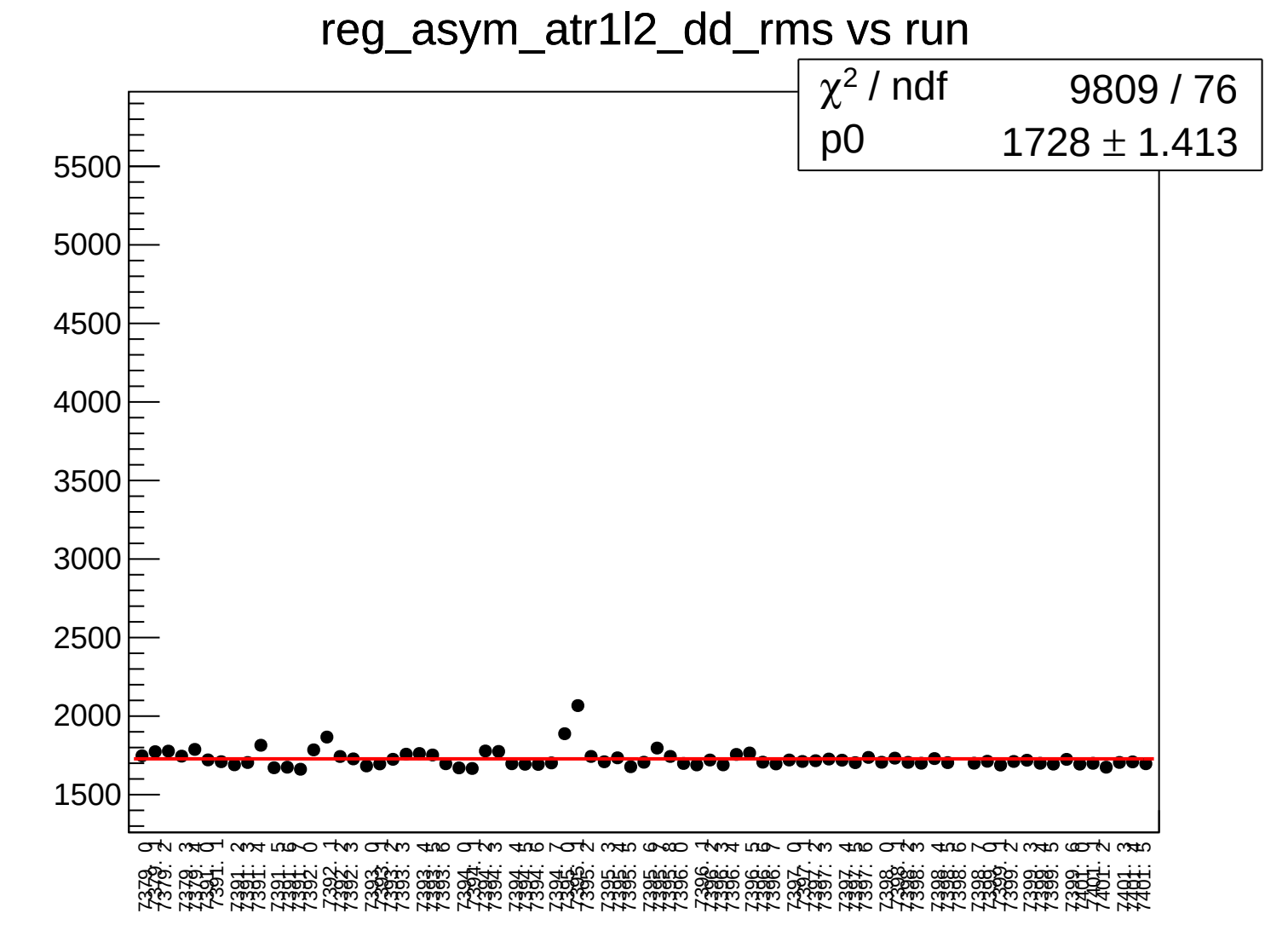

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 74.05 / 76
p0 −5444 ± 4829
150
100
50
0
−50
−100
−150
pull
Entries 77
Mean 102.9
Std Dev 48.44
2
1
0
−1
−2
−3

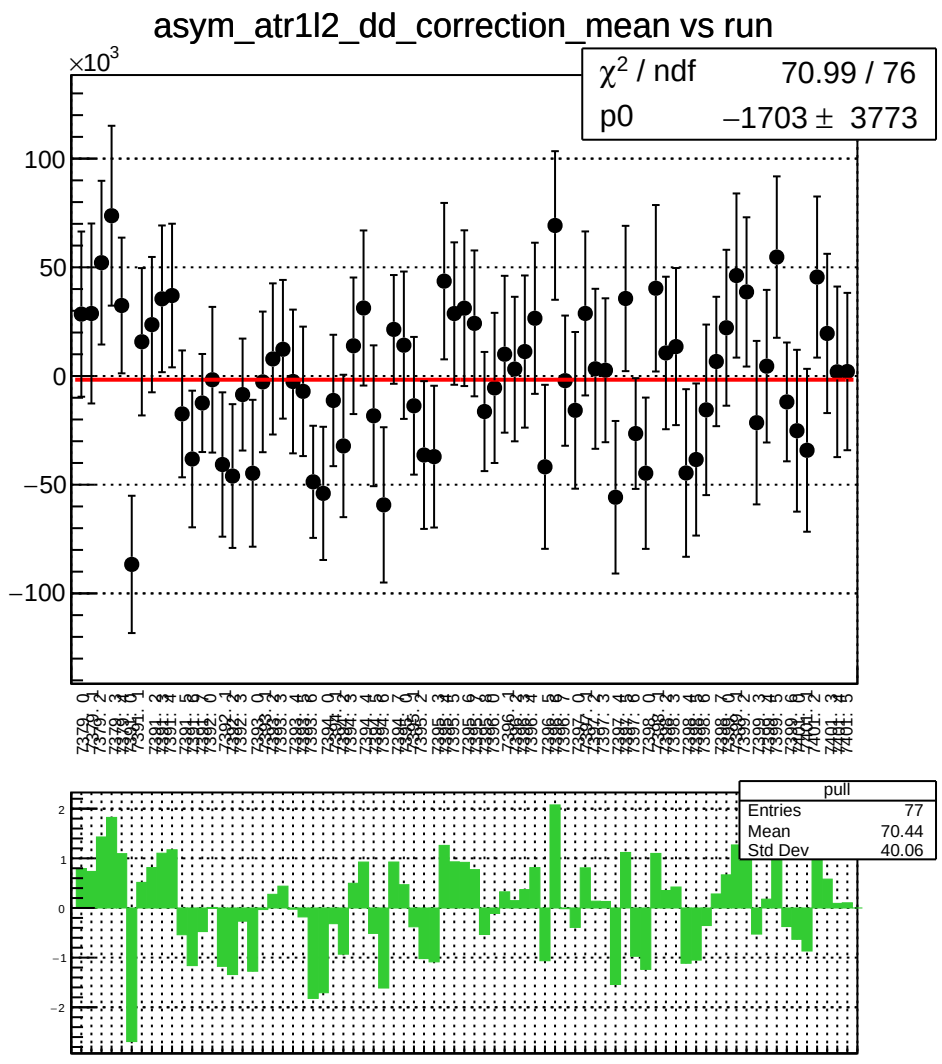

pull1D
Entries 77
Mean 0.0283
Std Dev 0.9803
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

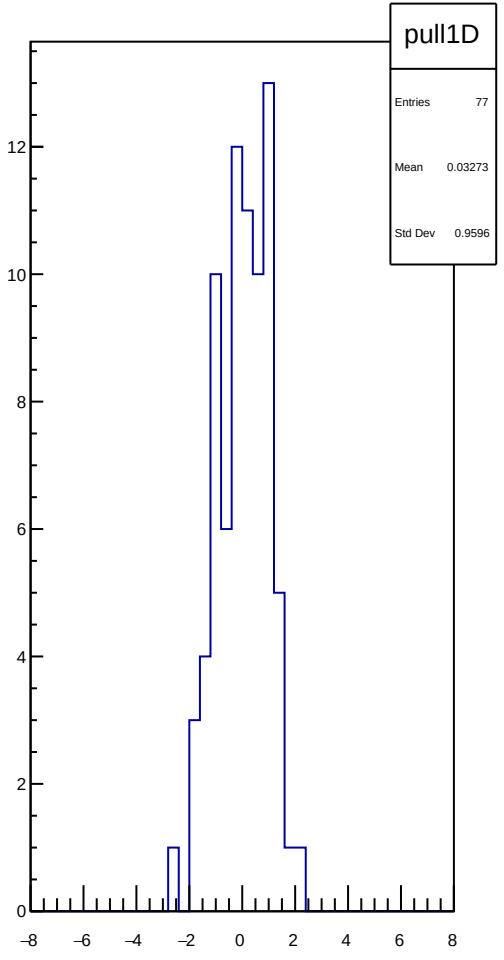

asym_atr1l2_avg_rms vs run
χ^2 / ndf 8598 / 76
p0 4177 ± 3.414
7000
6500
6000
5500
5000
4500
4000
3500

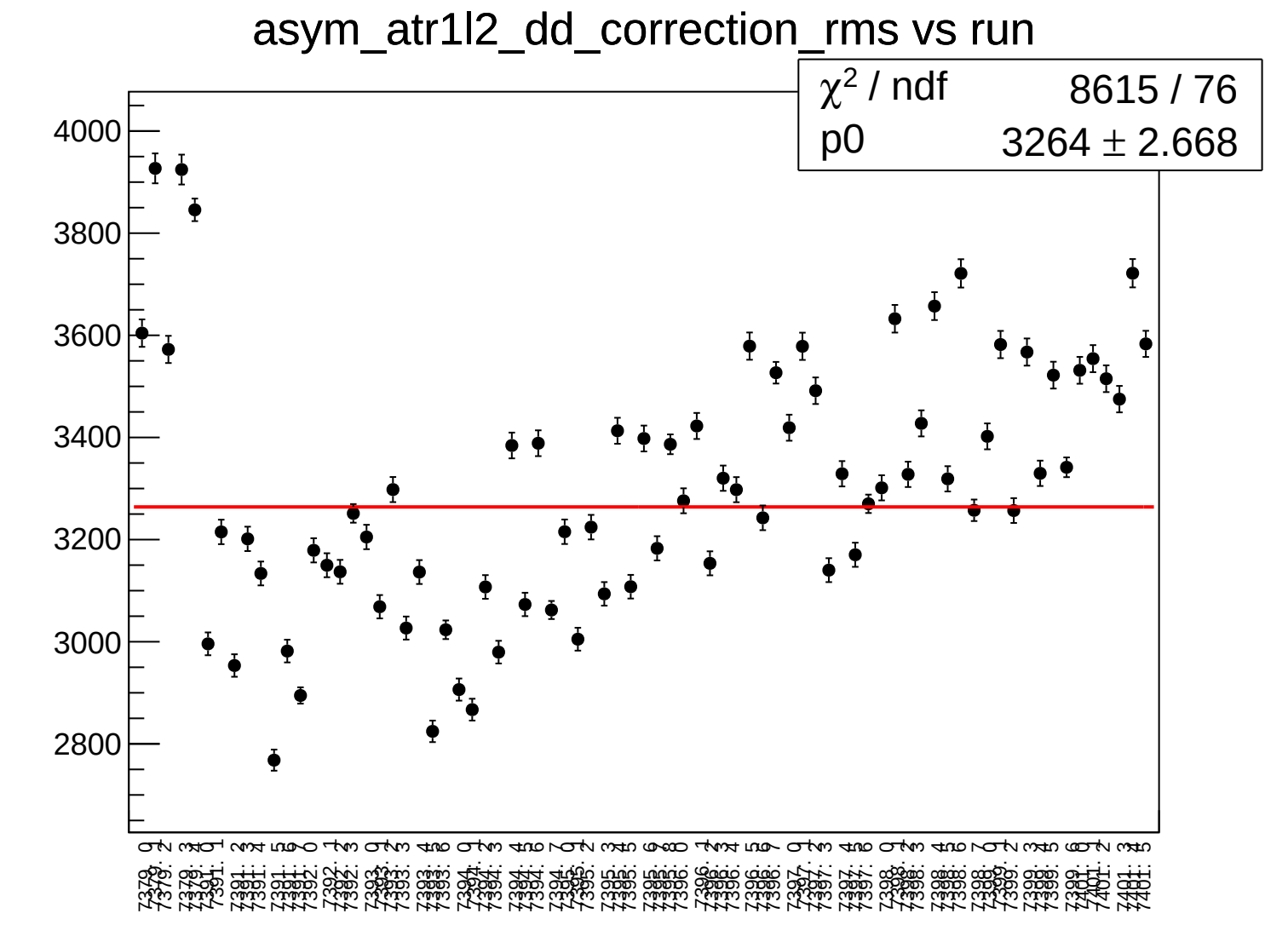

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 55.8 / 76
p0 399 ± 1998
×10³
pull
Entries 77
Mean 836.8
Std Dev 801.4

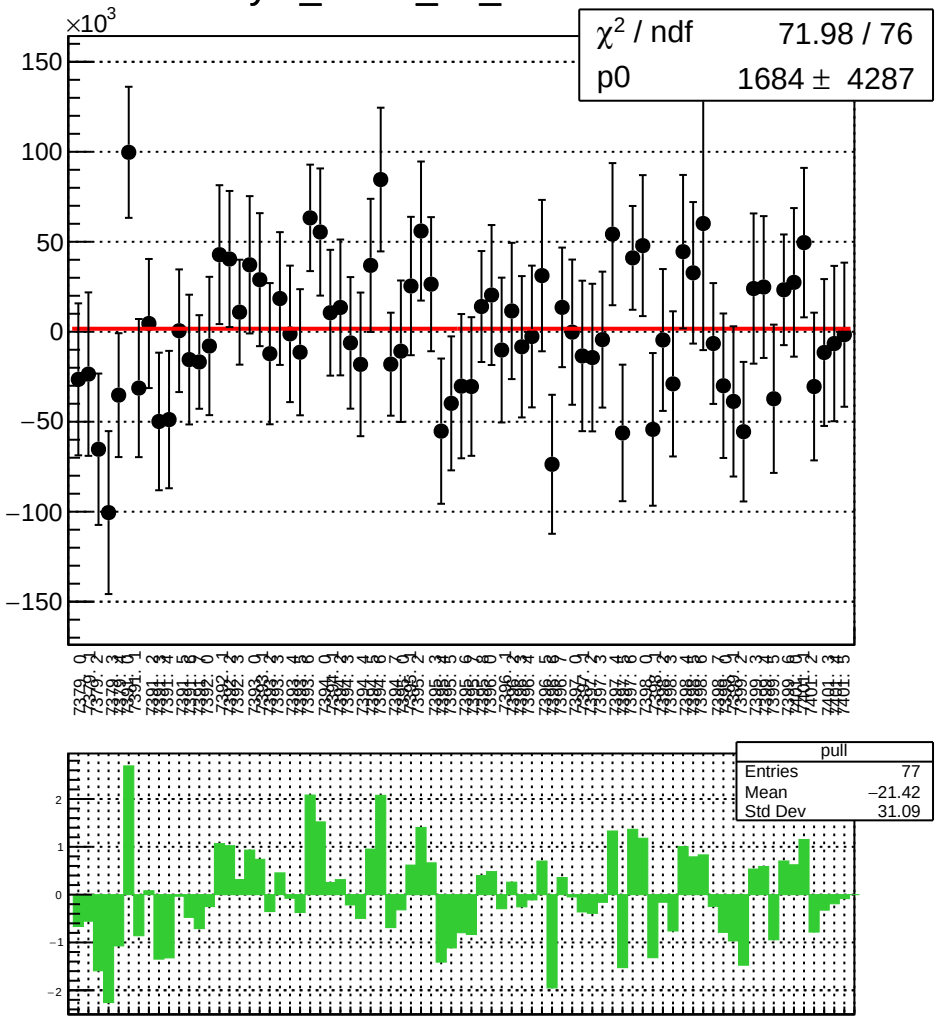

pull1D
Entries 77
Mean 0.005317
Std Dev 0.8513

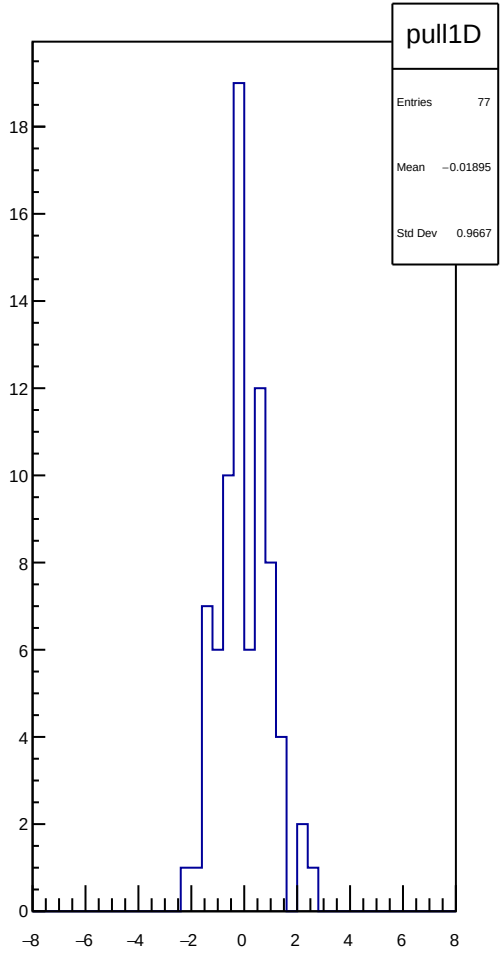

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 9809 / 76
p0 1728 ± 1.413
5500
5000
4500
4000
3500
3000
2500
2000
1500

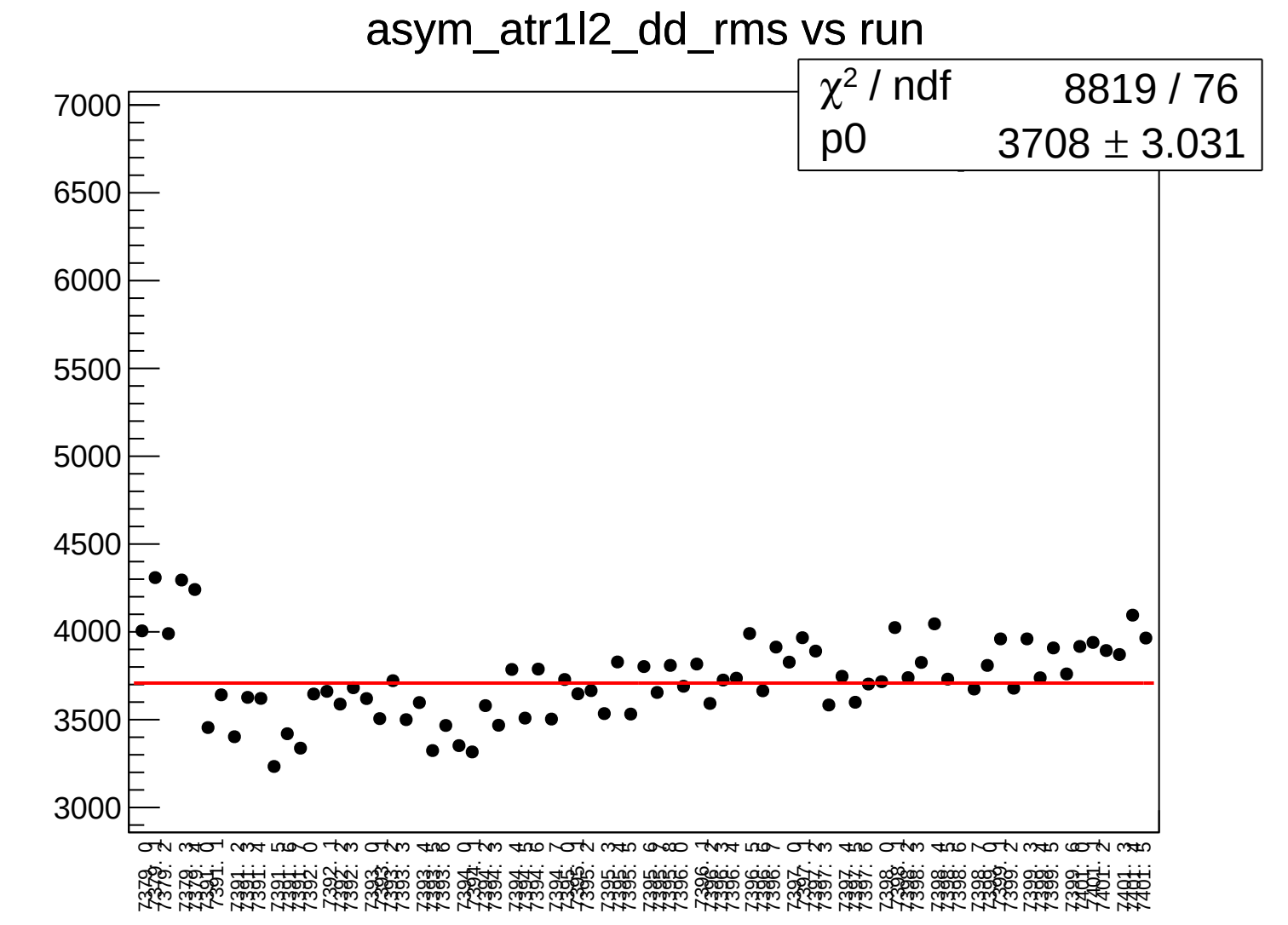

asym_atr1l2_dd_correction_mean vs run
×10^3
χ² / ndf 70.99 / 76
p0 −1703 ± 3773
100
50
0
−50
−100
pull
Entries 77
Mean 70.44
Std Dev 40.06
2
1
0
−1
−2

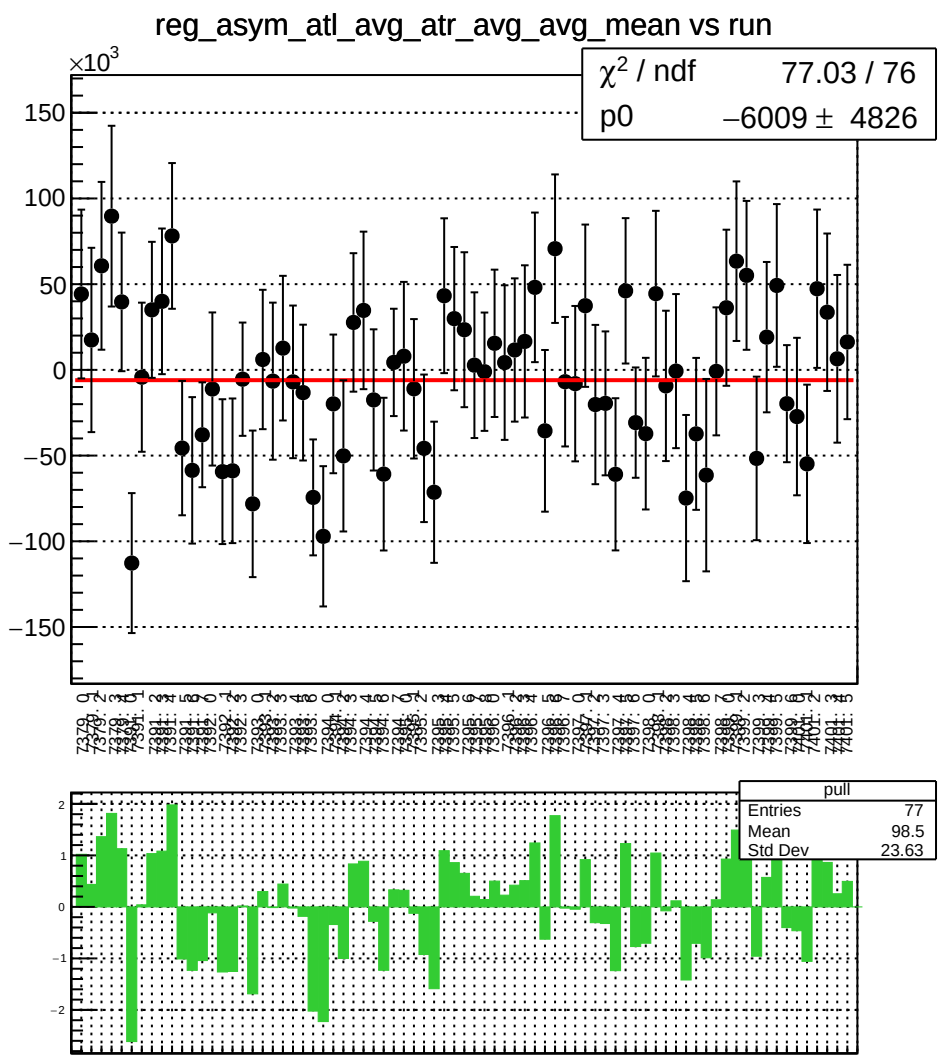

pull1D
Entries 77
Mean 0.03273
Std Dev 0.9596
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

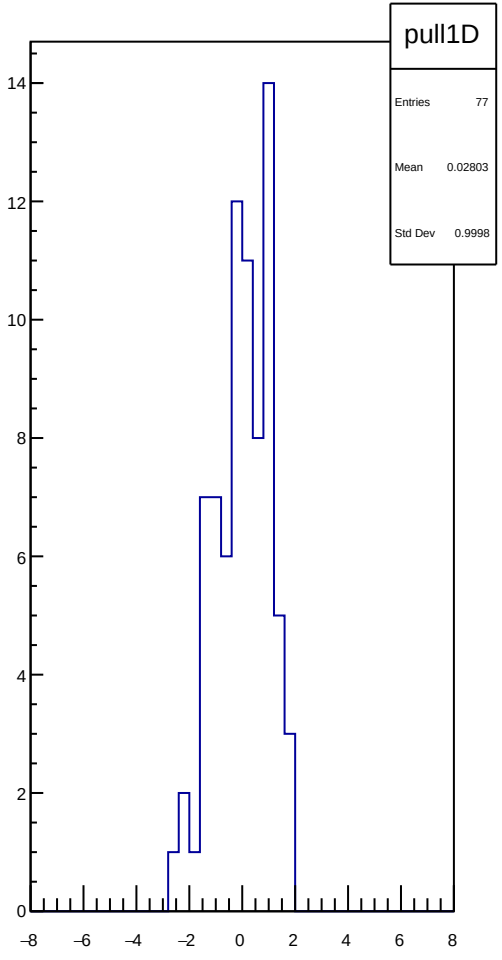

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 8615 / 76
p0 3264 ± 2.668
4000
3800
3600
3400
3200
3000
2800

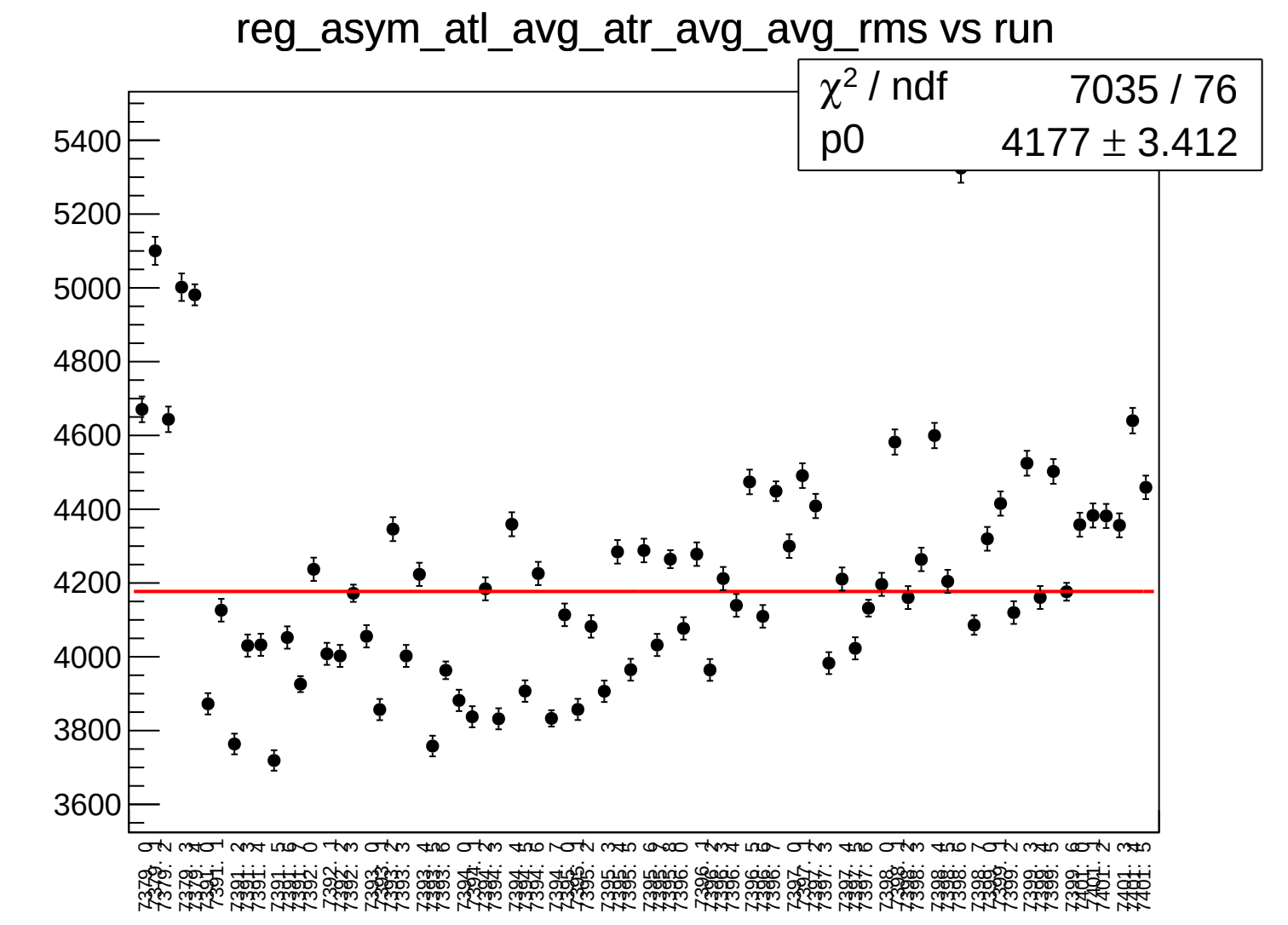

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 71.98 / 76
p0 1684 ± 4287
150
100
50
0
−50
−100
−150
pull
Entries 77
Mean −21.42
Std Dev 31.09
2
1
0
−1
−2

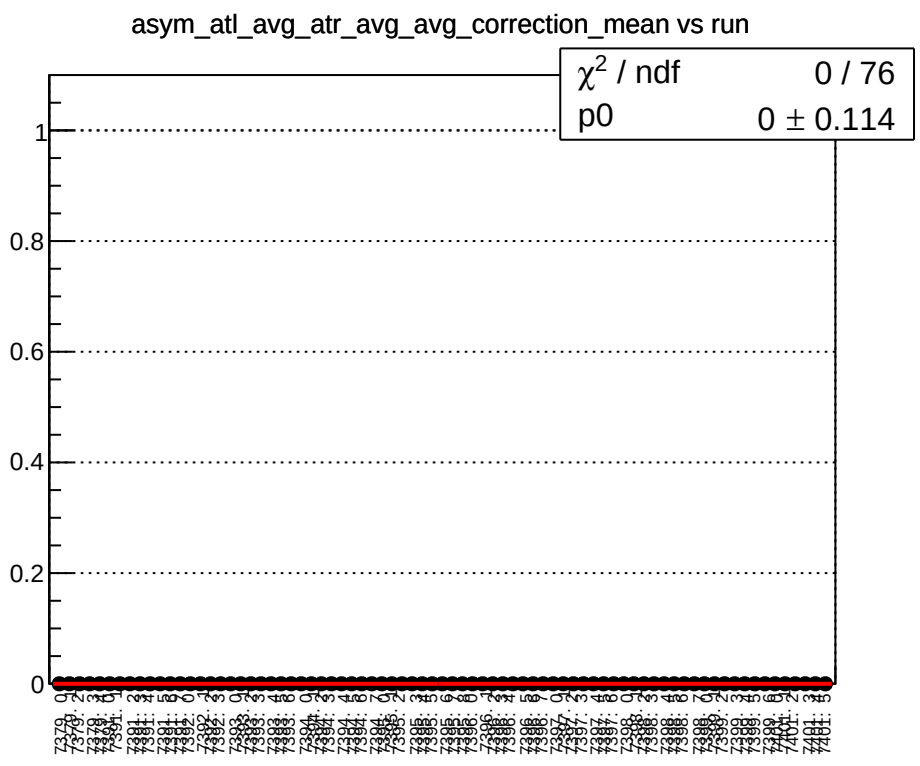

pull1D
Entries 77
Mean −0.01895
Std Dev 0.9667
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

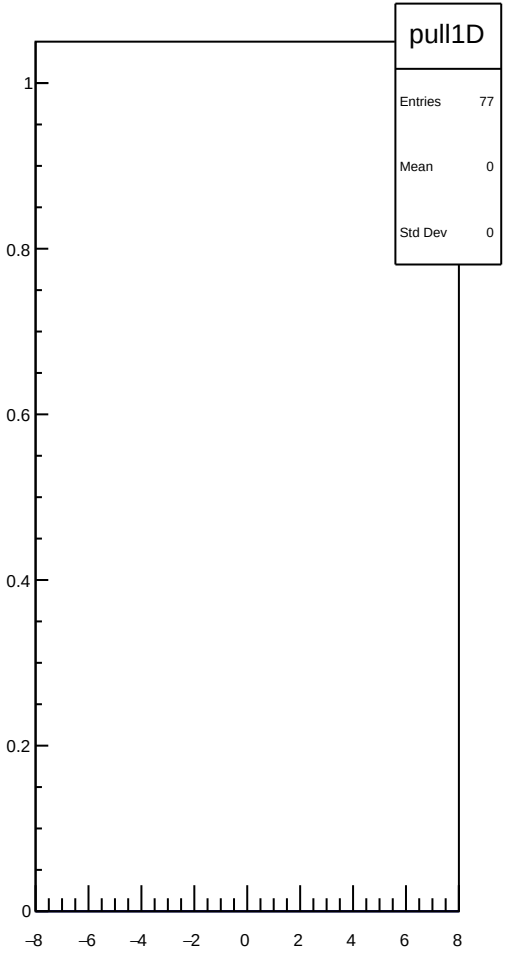

asym_atr1l2_dd_rms vs run
χ^2 / ndf 8819 / 76
p0 3708 ± 3.031
7000
6500
6000
5500
5000
4500
4000
3500
3000

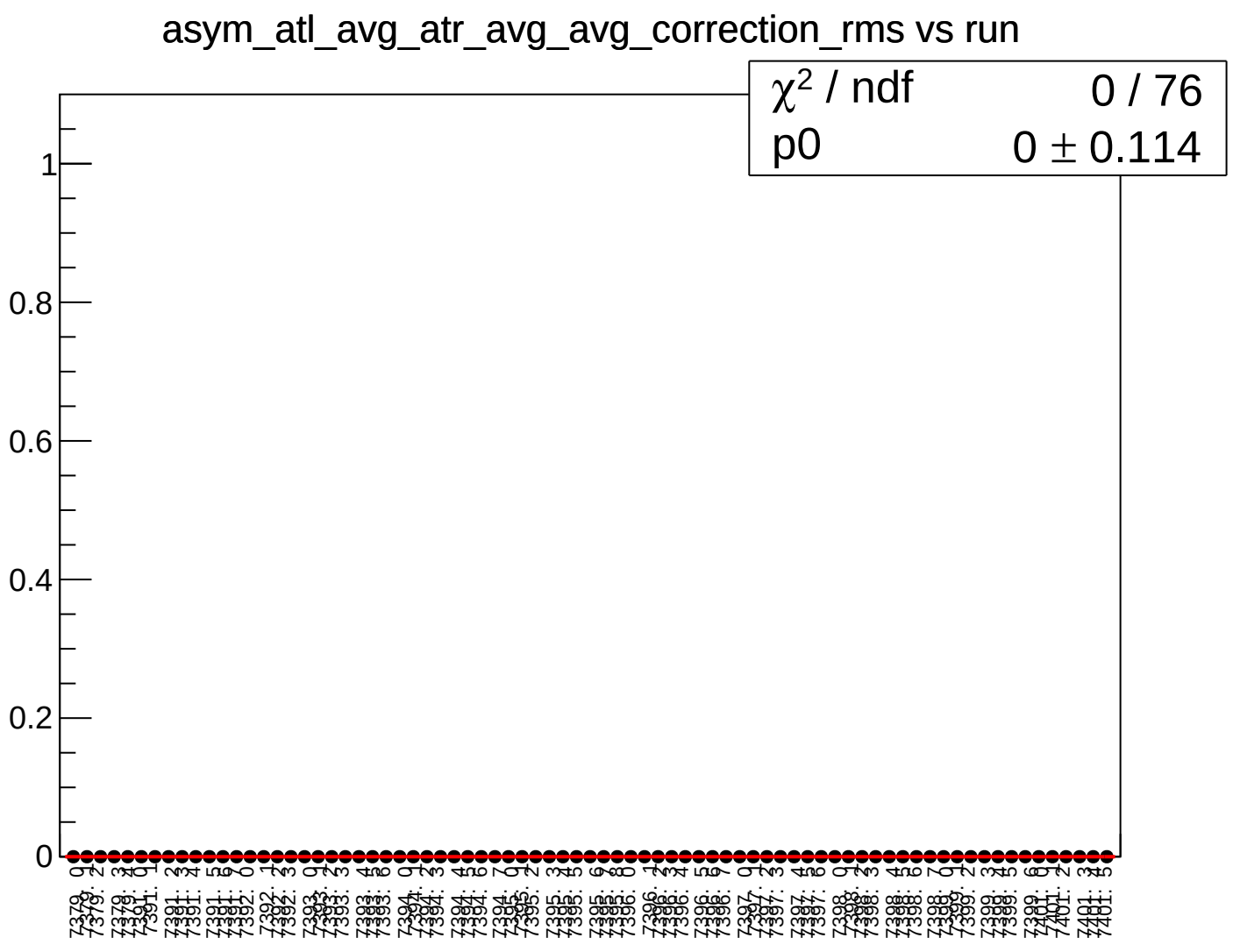

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 77.03 / 76
p0 −6009 ± 4826
150
100
50
0
−50
−100
−150
pull
Entries 77
Mean 98.5
Std Dev 23.63
2
1
0
−1
−2

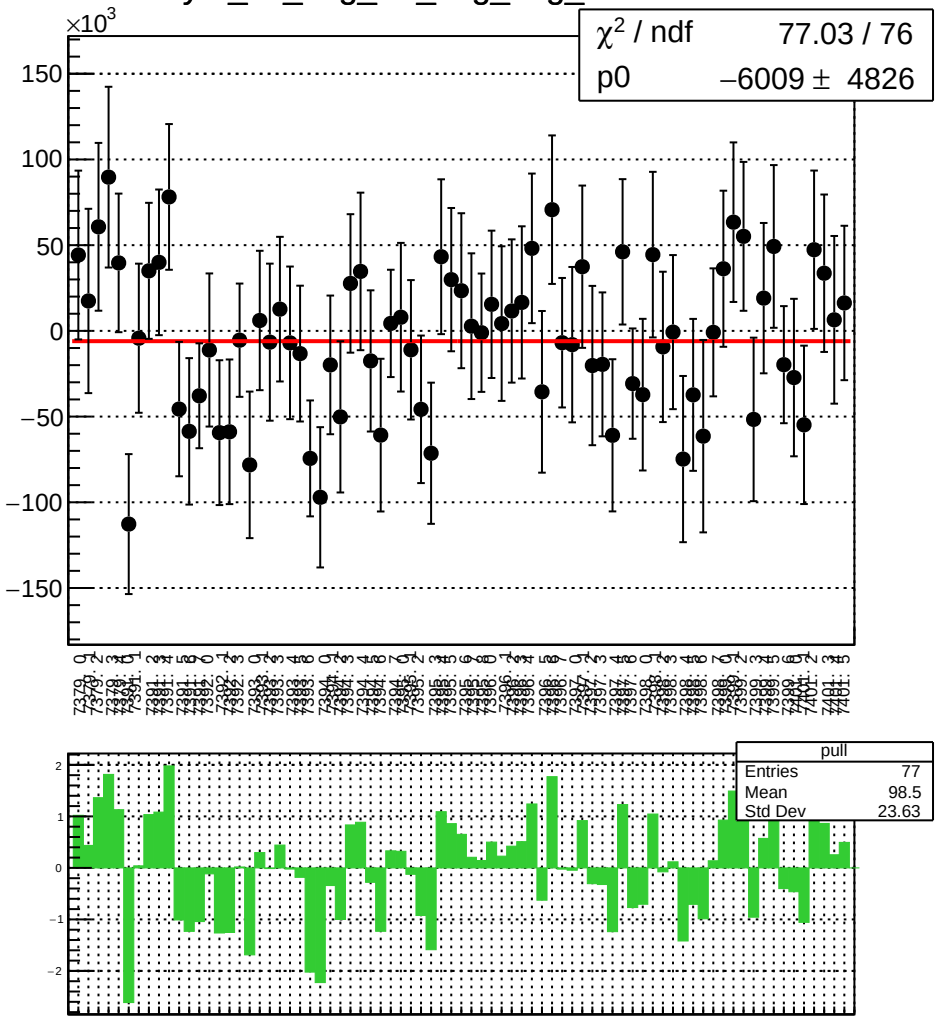

pull1D
Entries 77
Mean 0.02803
Std Dev 0.9998
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

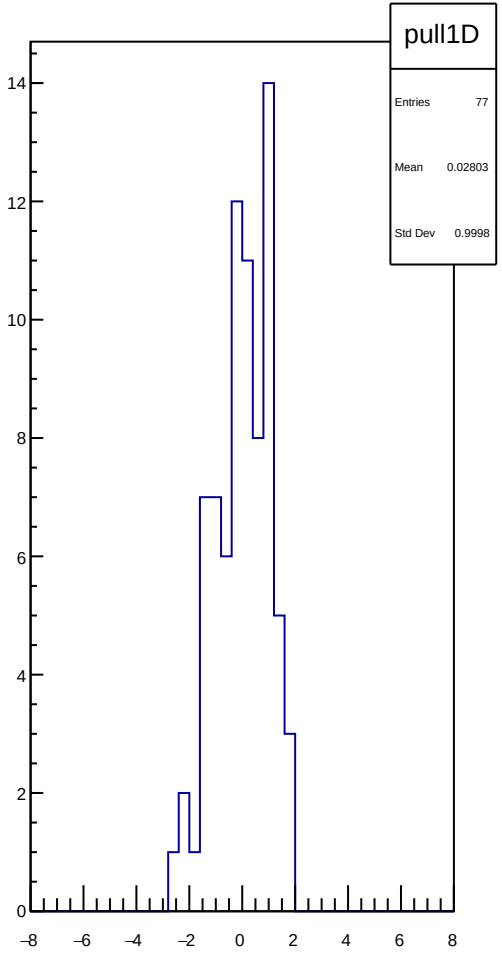

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 7035 / 76
p0 4177 ± 3.412
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

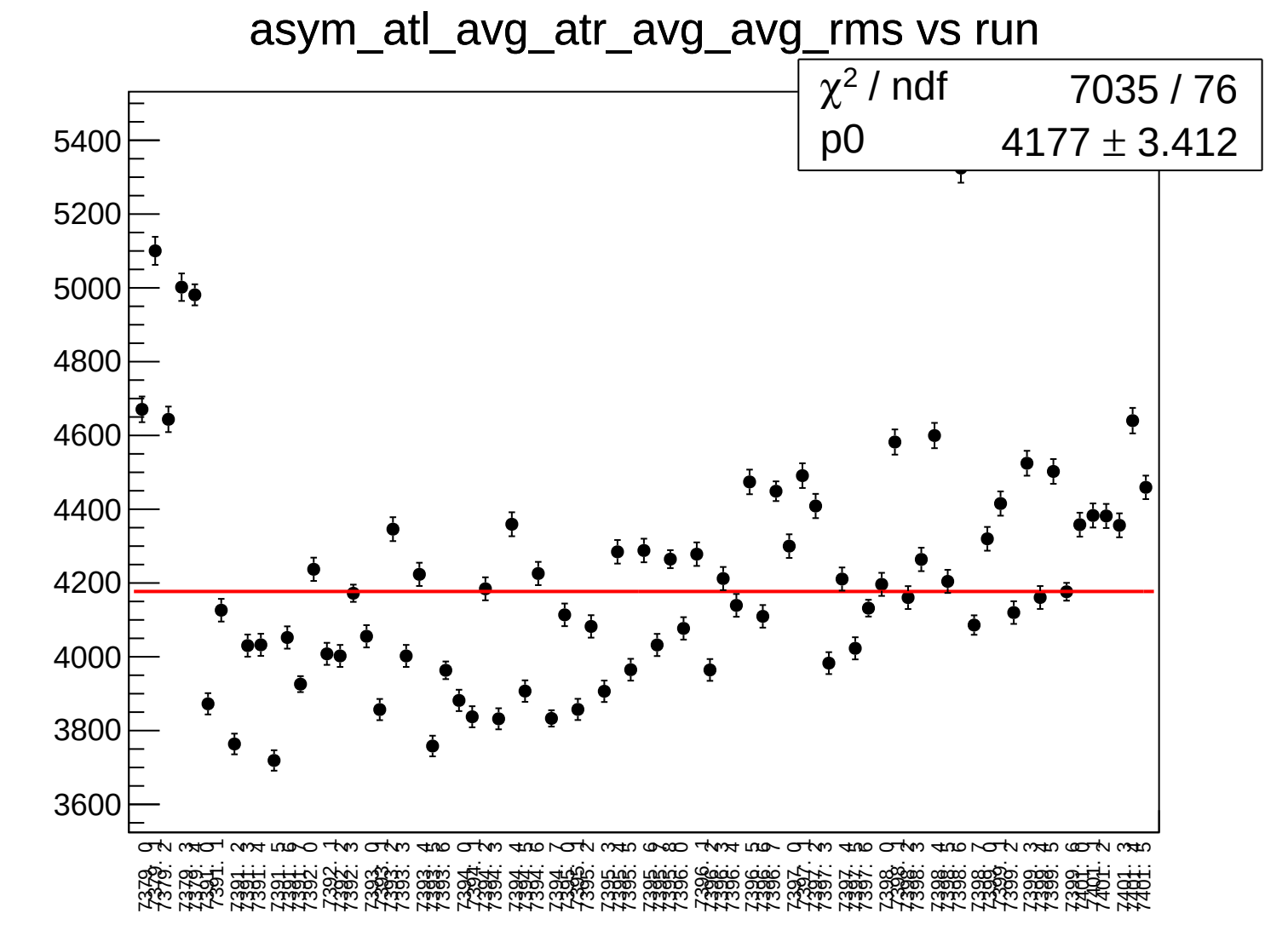

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 76
p0 0 ± 0.114
1
0.8
0.6
0.4
0.2
0

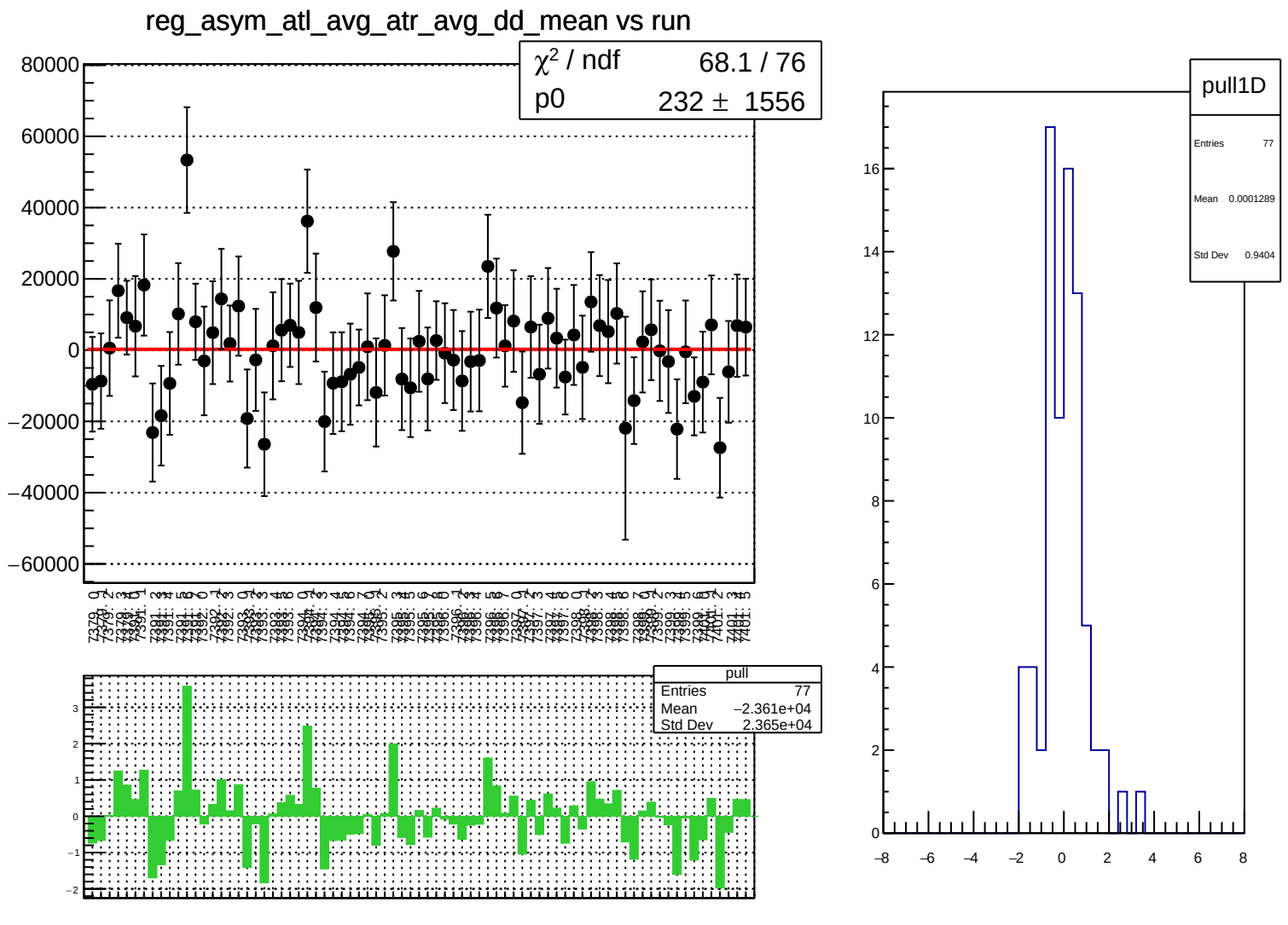

pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

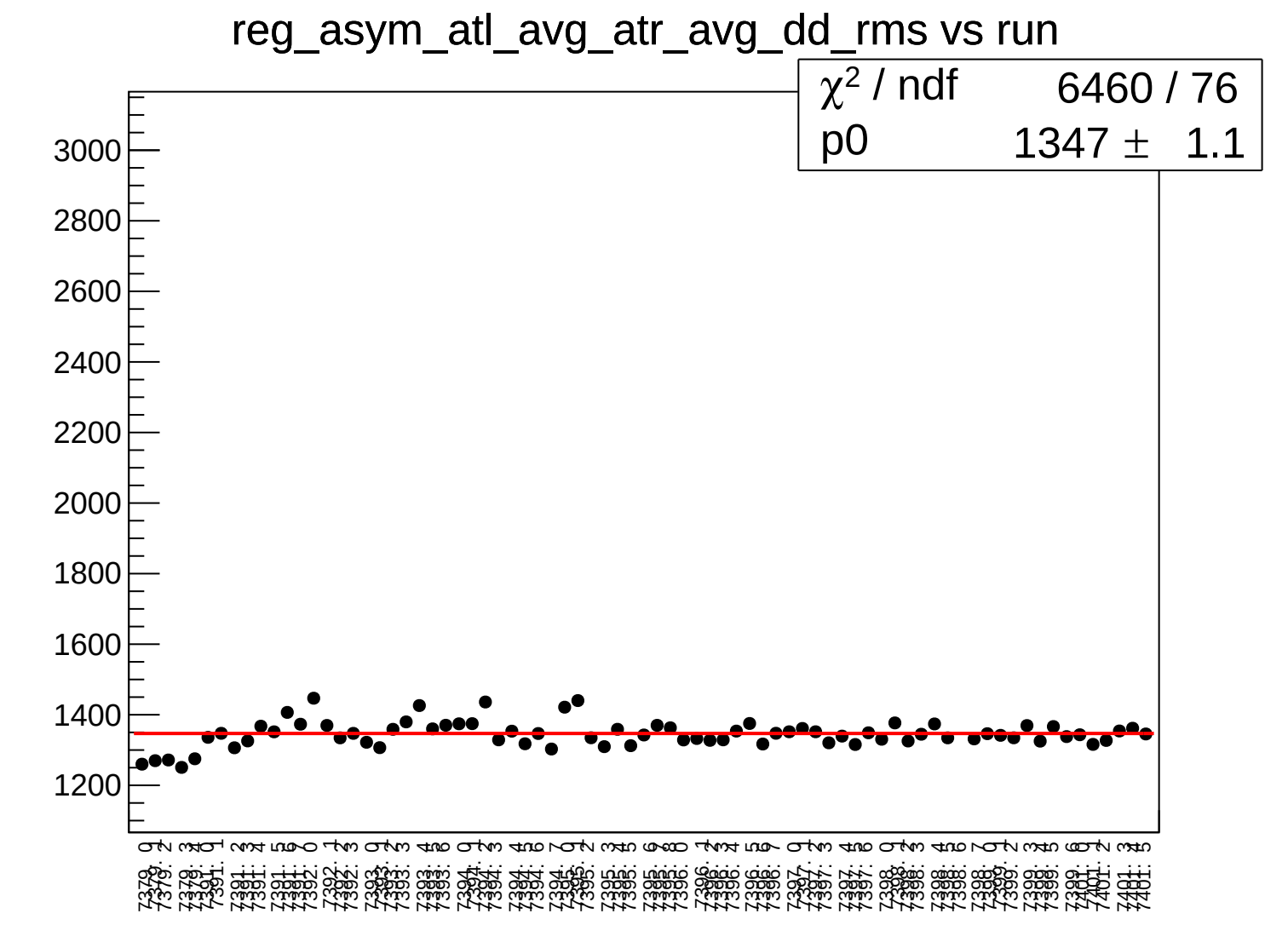

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 76
p0 0 ± 0.114
1
0.8
0.6
0.4
0.2
0

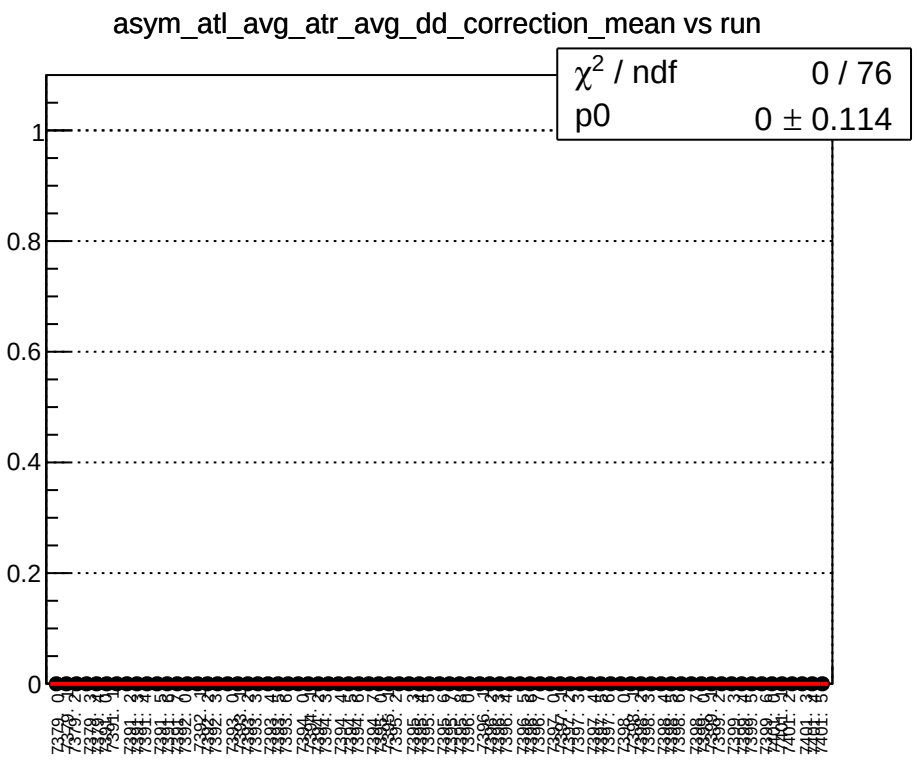

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 77.03 / 76
p0 −6009 ± 4826
×10³
pull
Entries 77
Mean 98.5
Std Dev 23.63

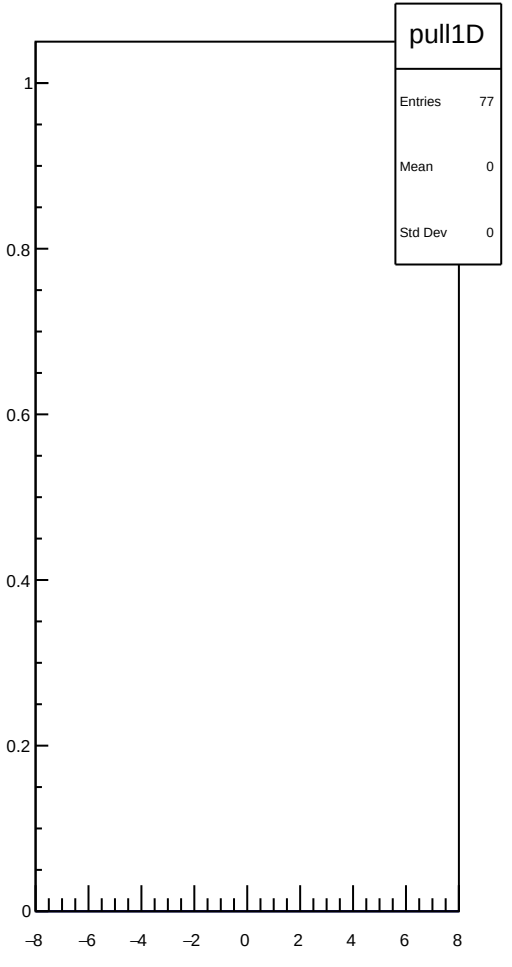

pull1D
Entries 77
Mean 0.02803
Std Dev 0.9998

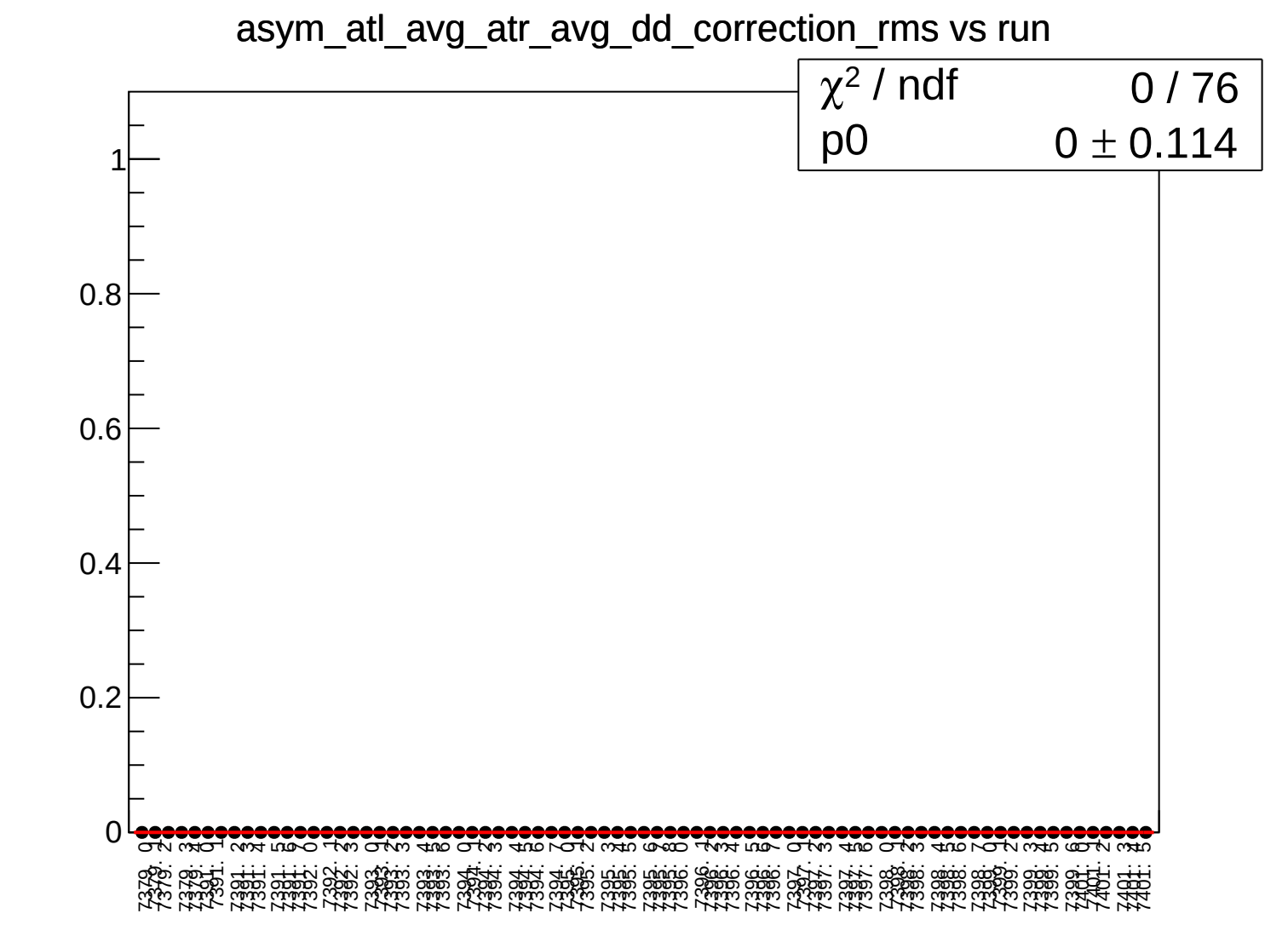

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 7035 / 76
p0 4177 ± 3.412
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

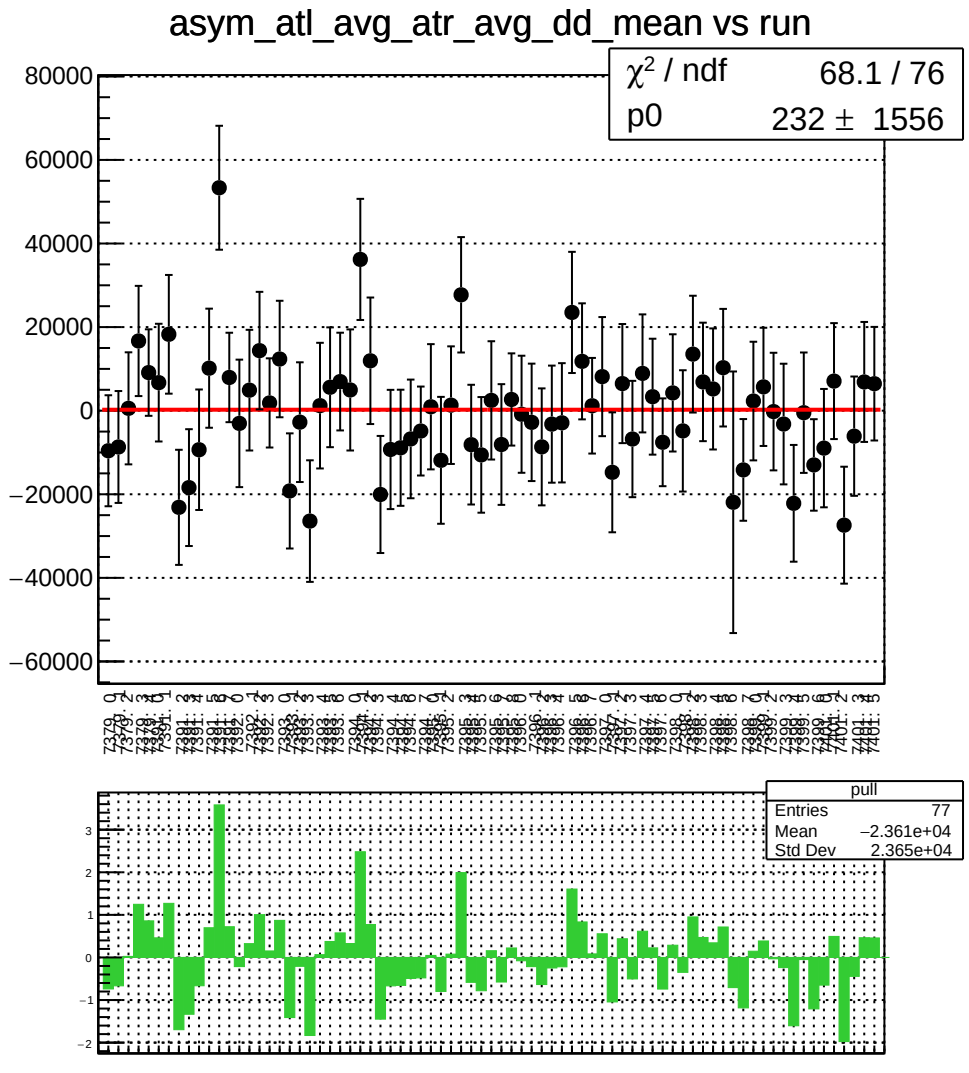

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 68.1 / 76
p0 232 ± 1556
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 77
Mean −2.361e+04
Std Dev 2.365e+04
pull1D
Entries 77
Mean 0.0001289
Std Dev 0.9404

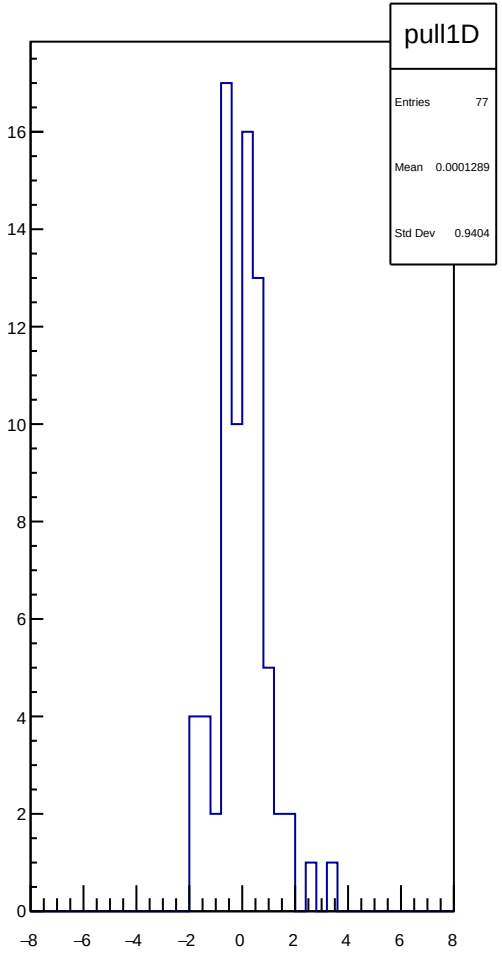

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 6460 / 76
p0 1347 ± 1.1
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

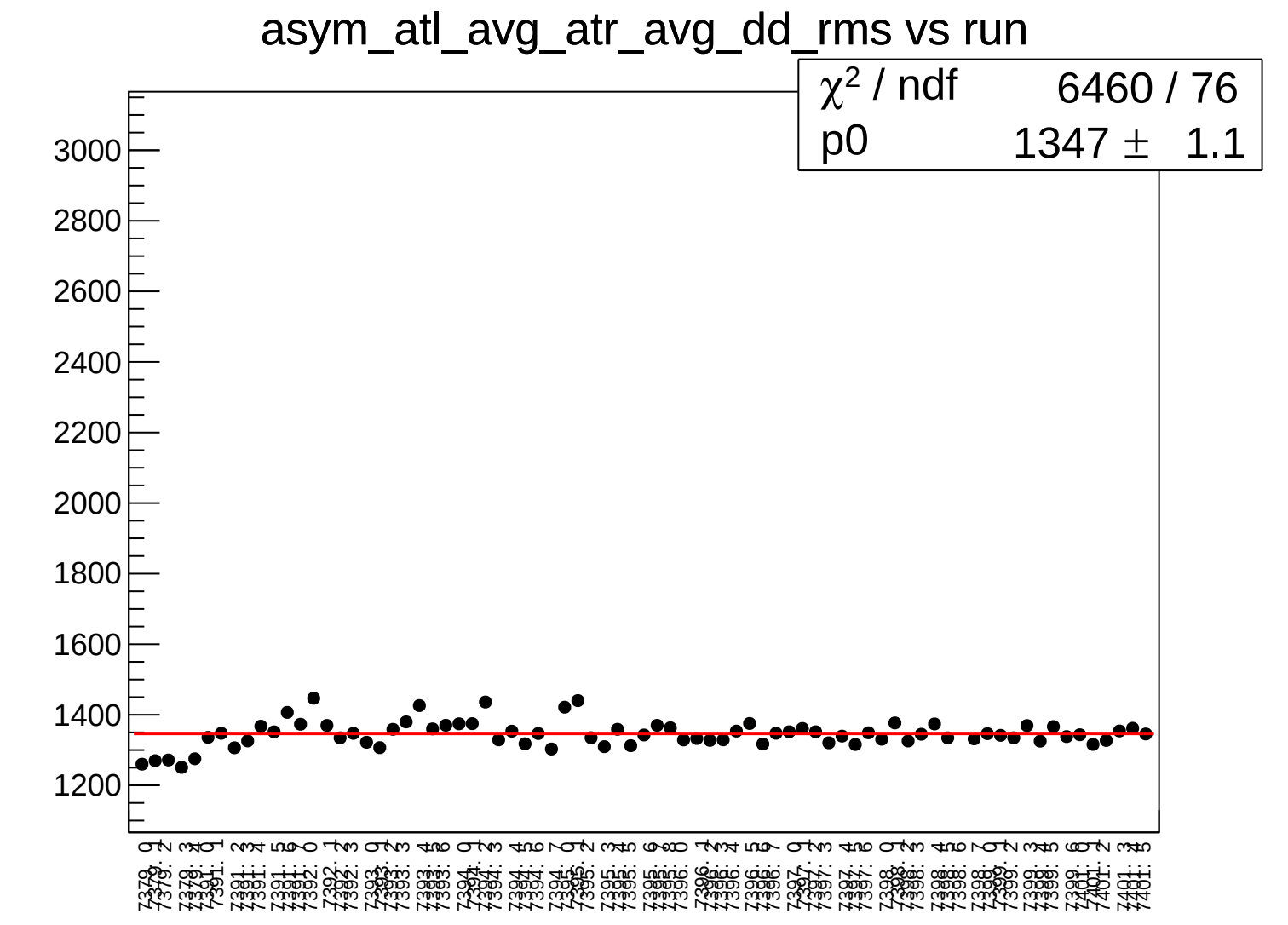

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 76
p0 0 ± 0.114
1
0.8
0.6
0.4
0.2
0

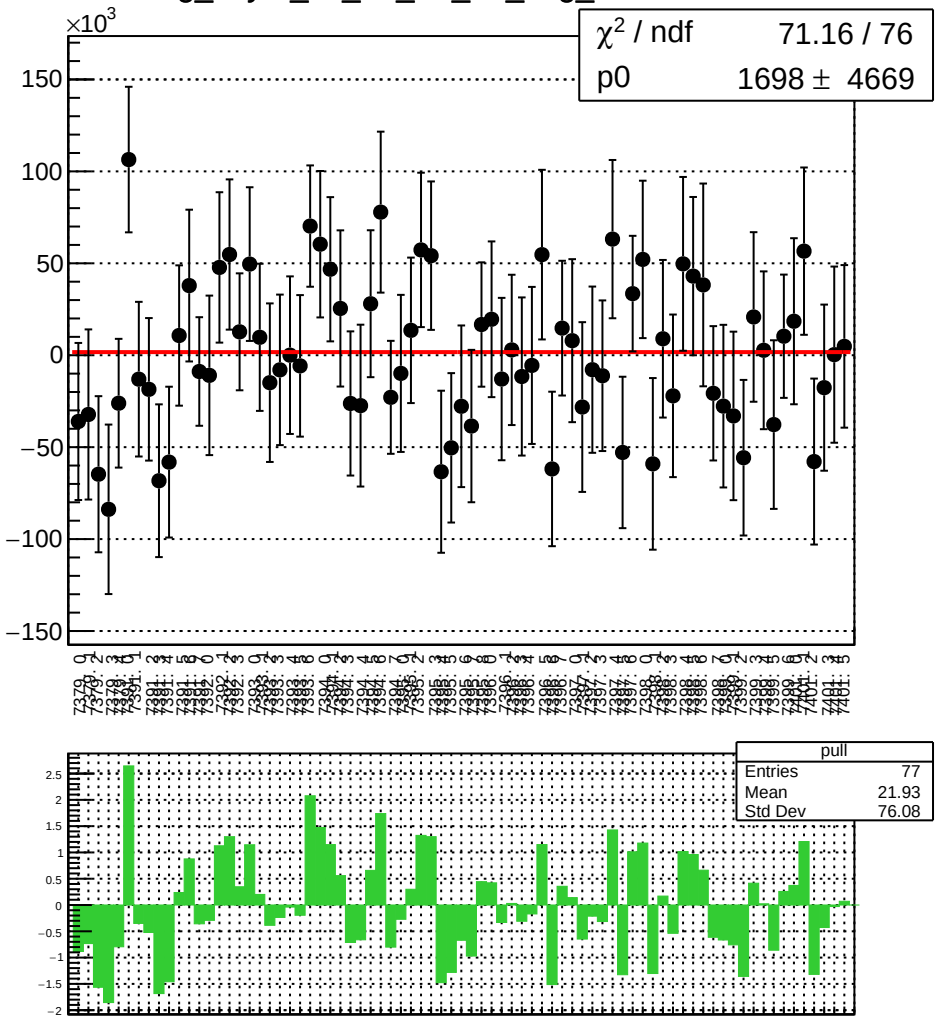

pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

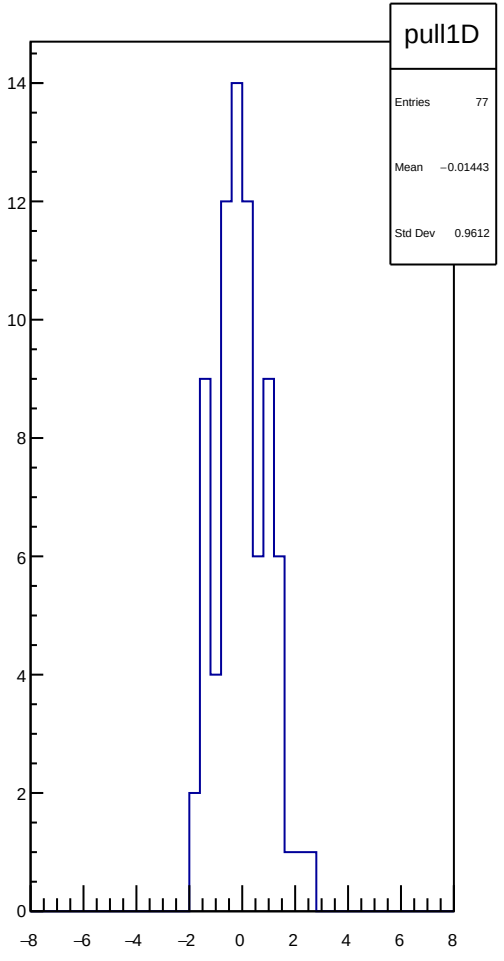

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 76
p0 0 ± 0.114
1
0.8
0.6
0.4
0.2
0

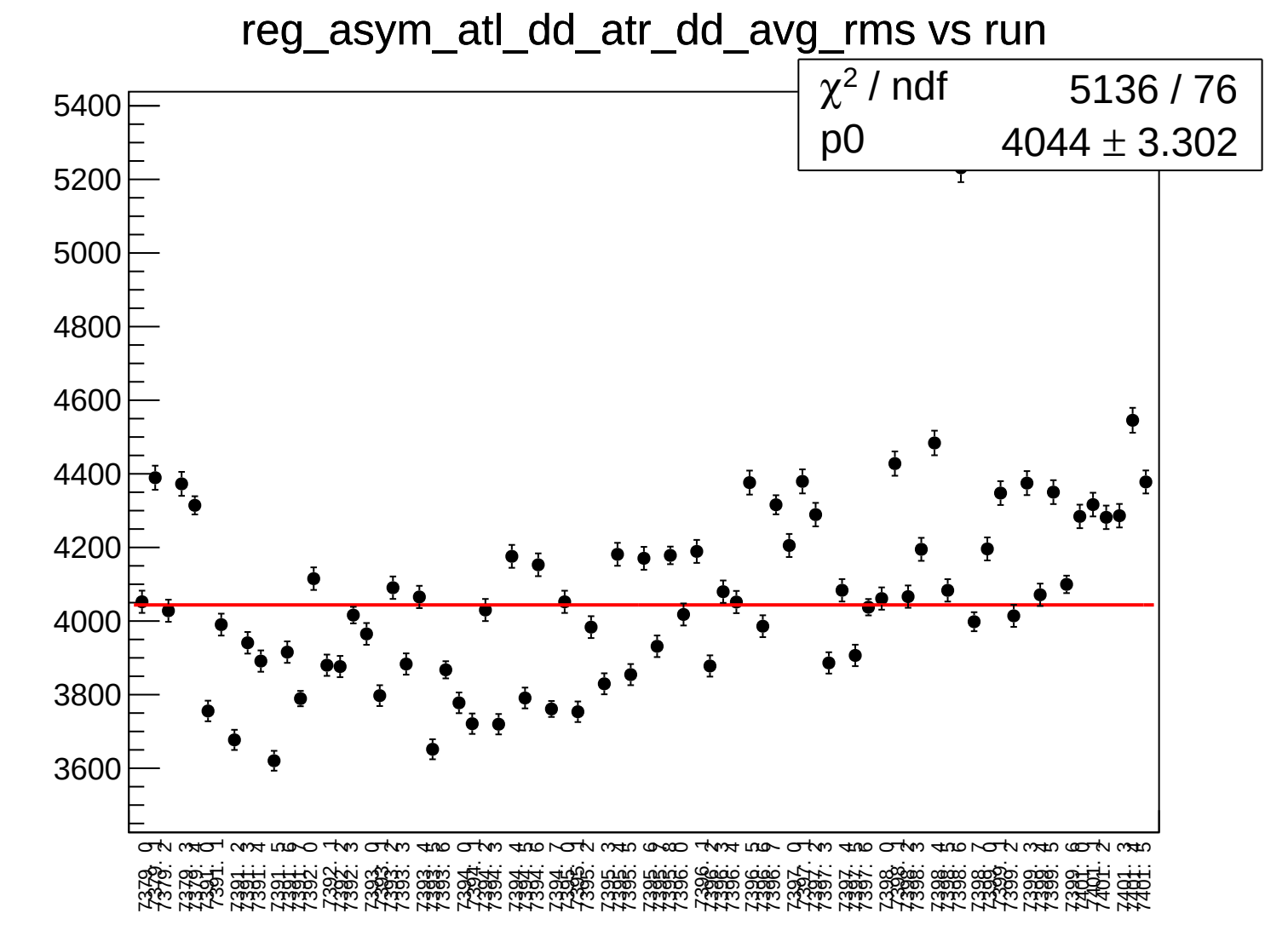

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 68.1 / 76
p0 232 ± 1556
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 77
Mean −2.361e+04
Std Dev 2.365e+04
3
2
1
0
−1
−2

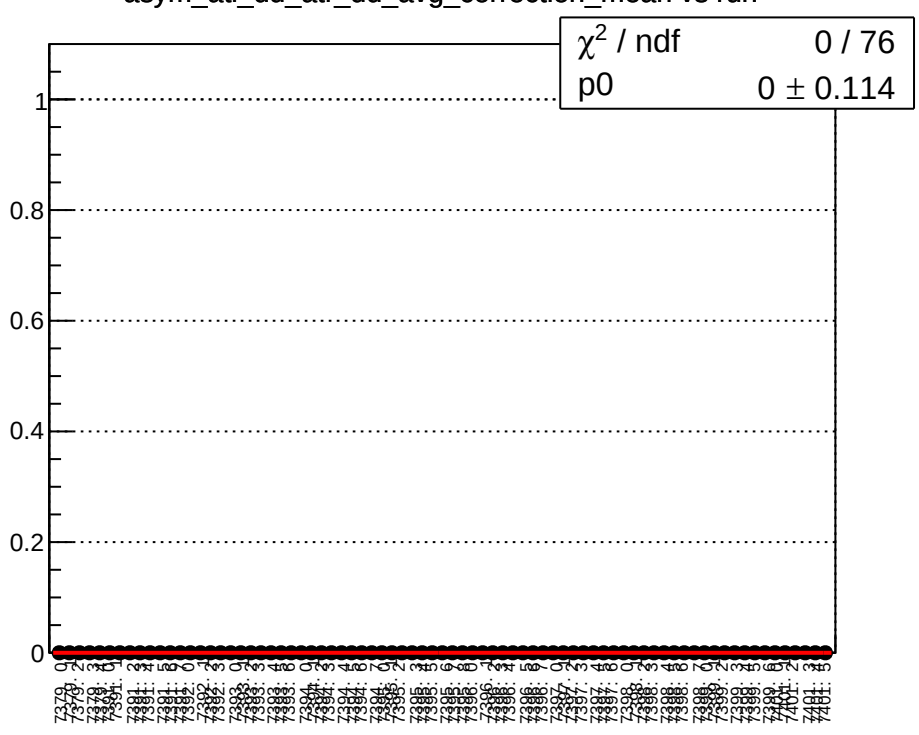

pull1D
Entries 77
Mean 0.0001289
Std Dev 0.9404
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

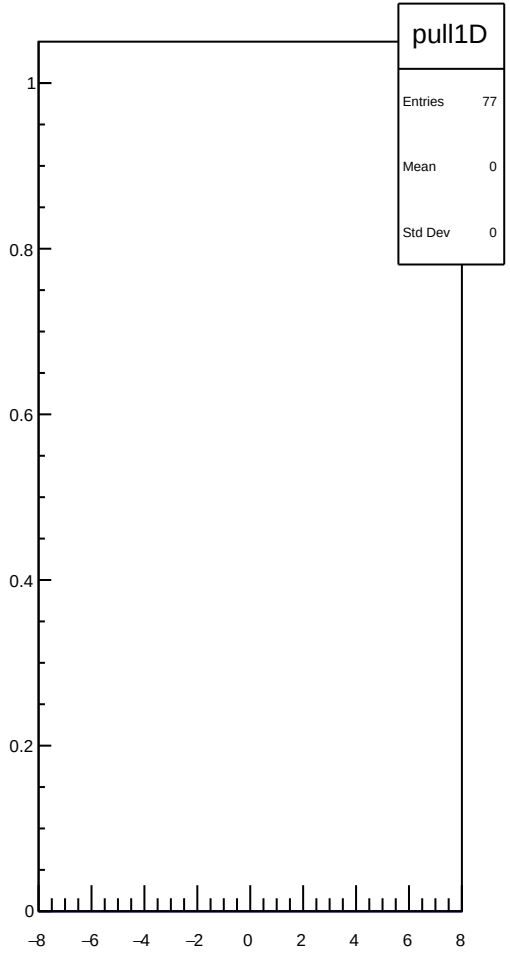

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 6460 / 76
p0 1347 ± 1.1
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

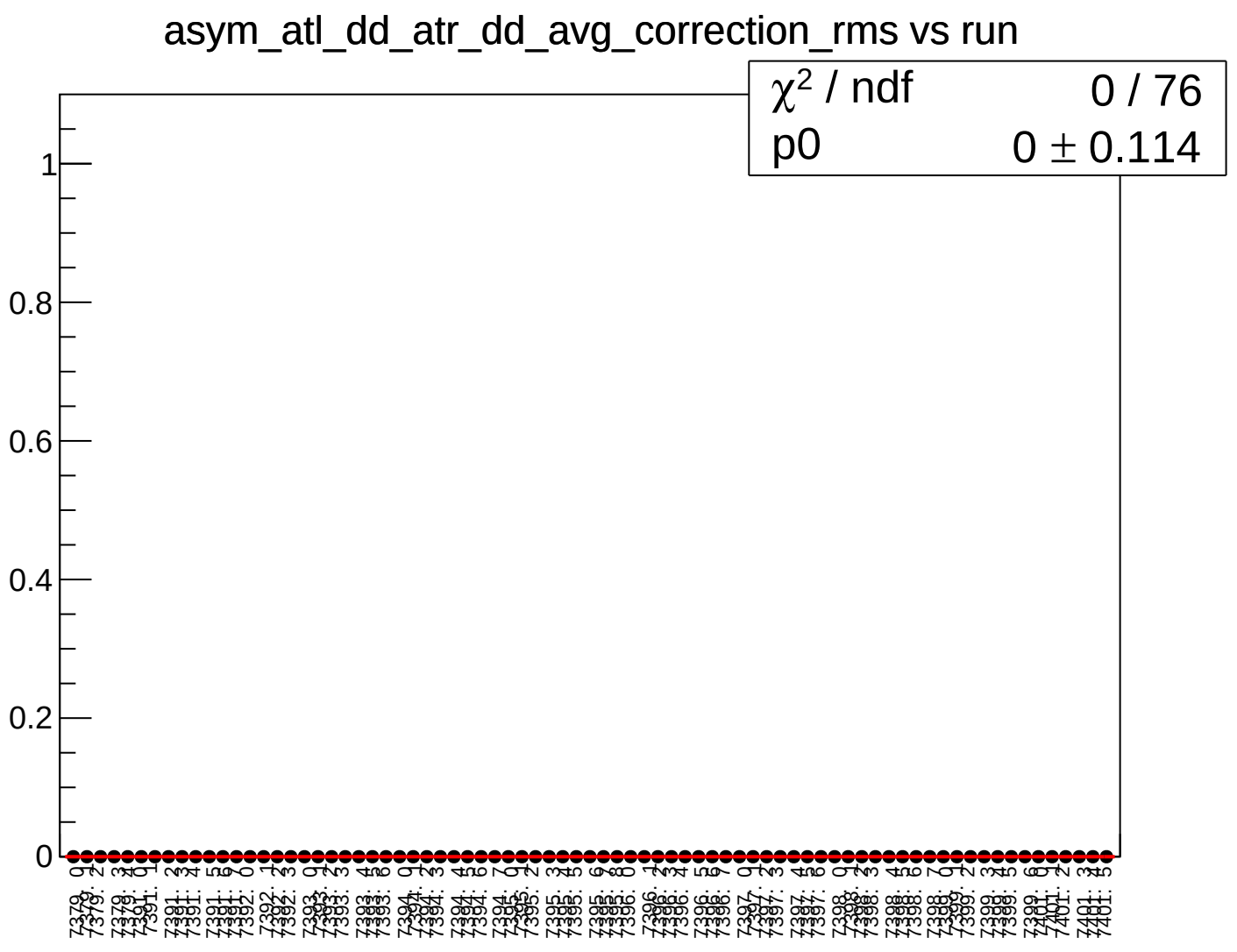

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 71.16 / 76
p0 1698 ± 4669
150
100
50
0
−50
−100
−150
pull
Entries 77
Mean 21.93
Std Dev 76.08
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

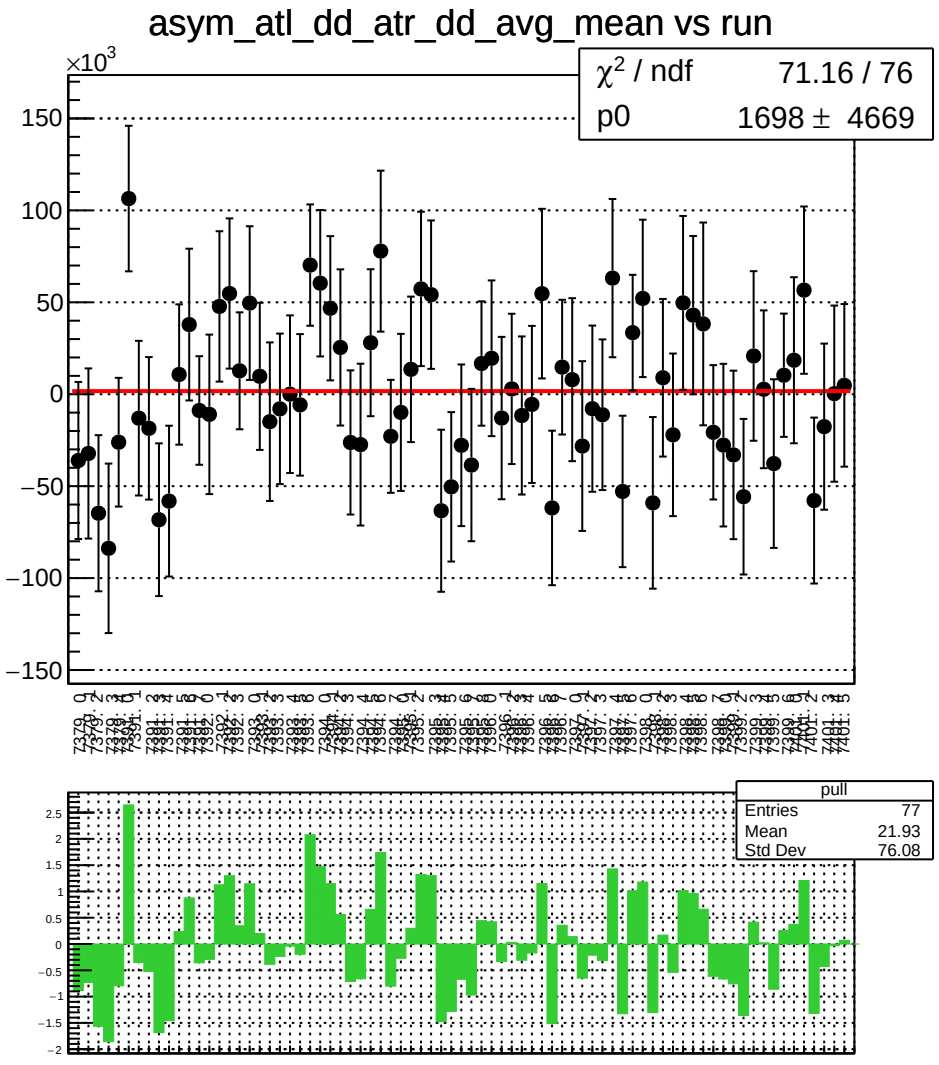

pull1D
Entries 77
Mean −0.01443
Std Dev 0.9612
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

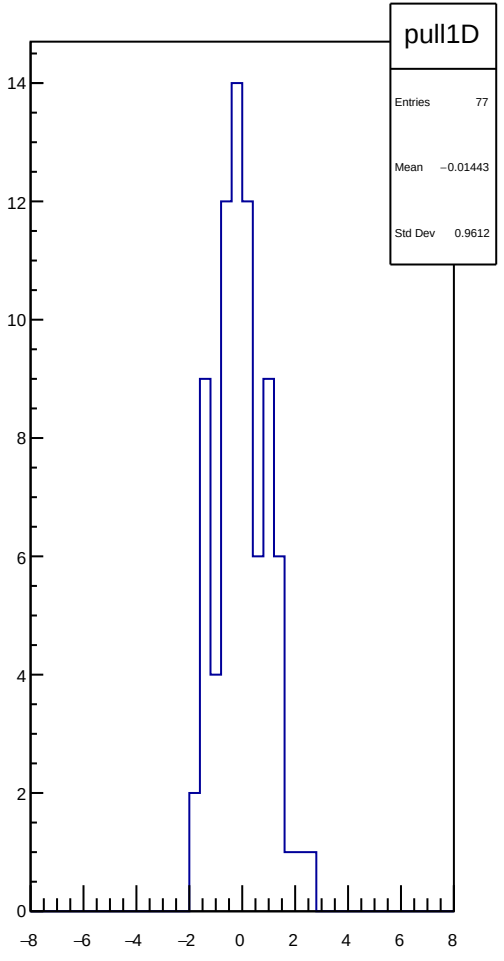

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 5136 / 76
p0 4044 ± 3.302
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

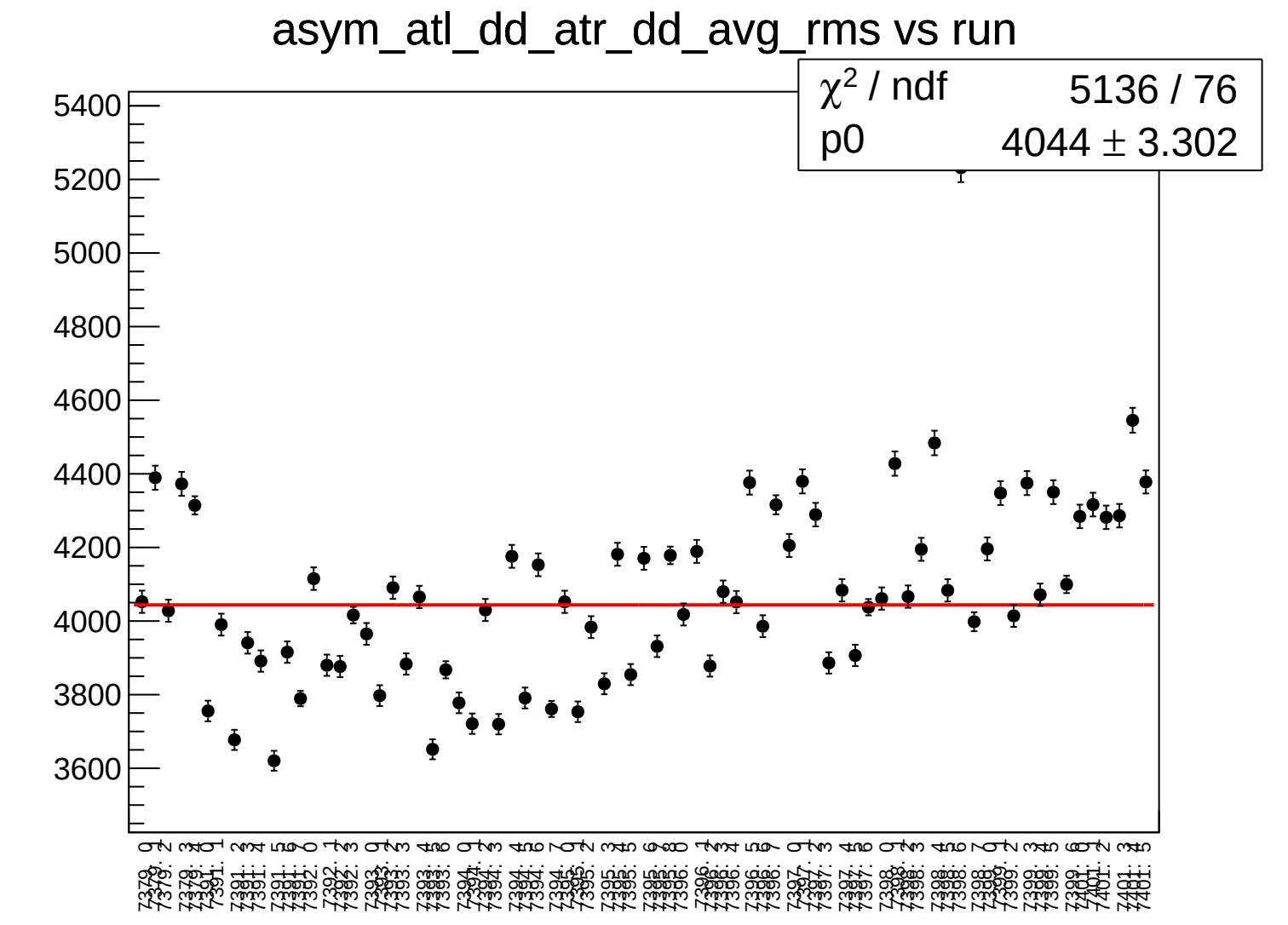

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 76
p0 0 ± 0.114
1
0.8
0.6
0.4
0.2
0

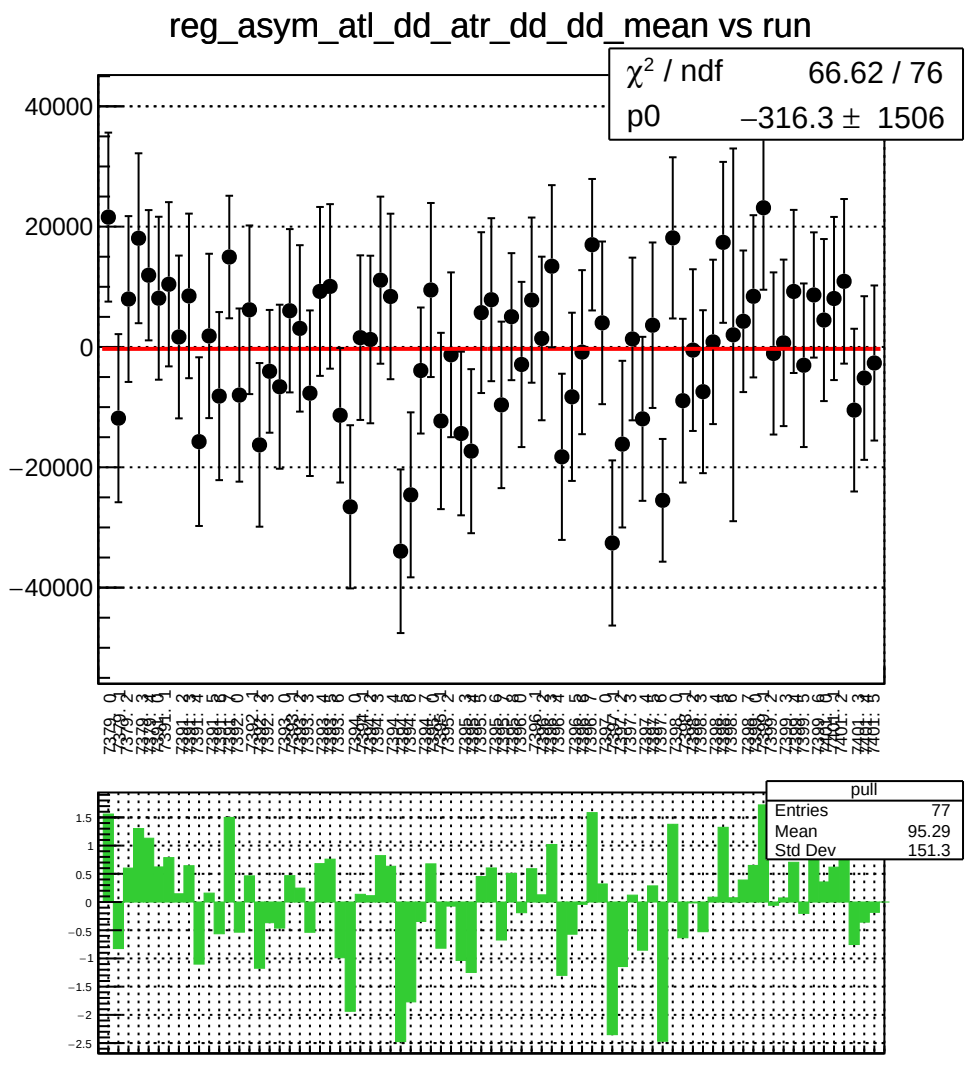

pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

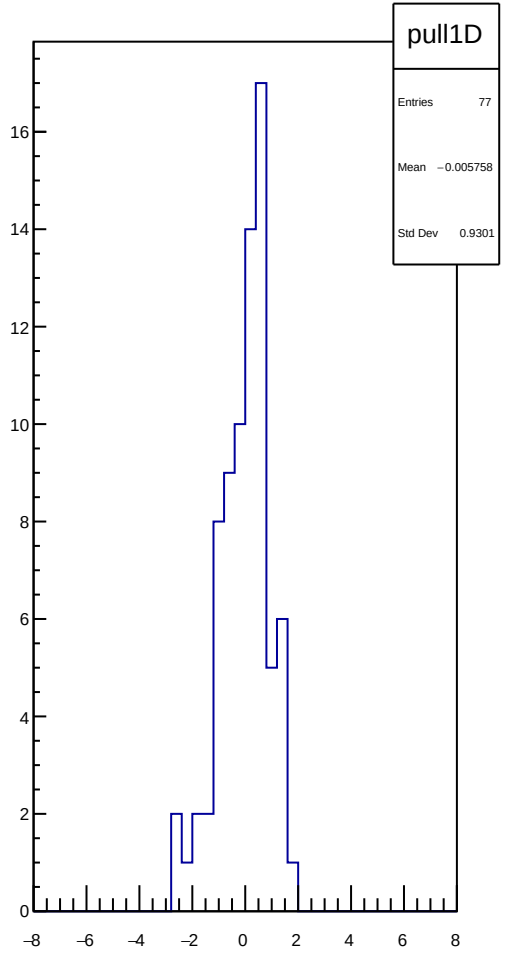

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 76
p0 0 ± 0.114
1
0.8
0.6
0.4
0.2
0

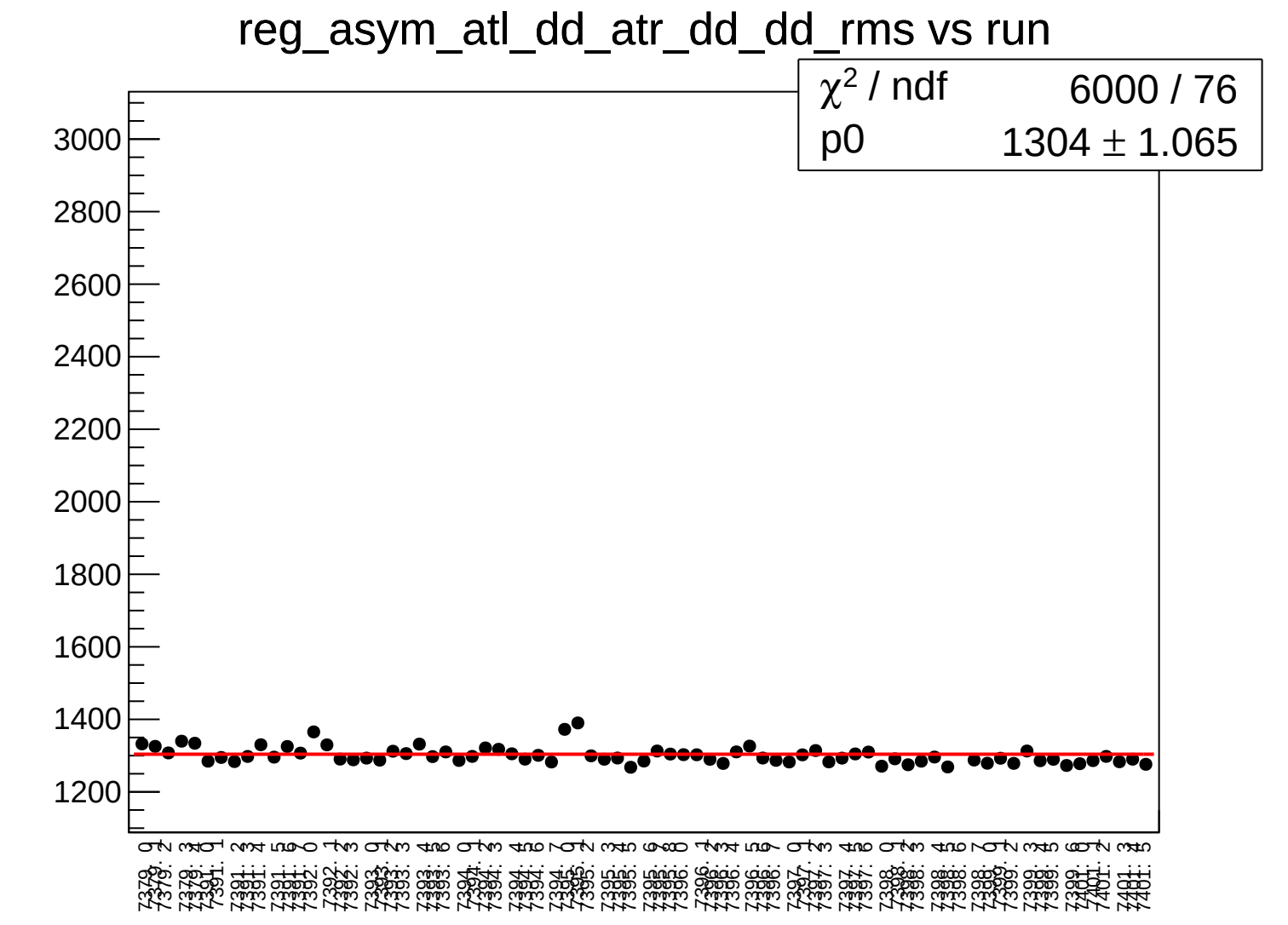

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 71.16 / 76
p0 1698 ± 4669
150
100
50
0
−50
−100
−150
pull
Entries 77
Mean 21.93
Std Dev 76.08
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

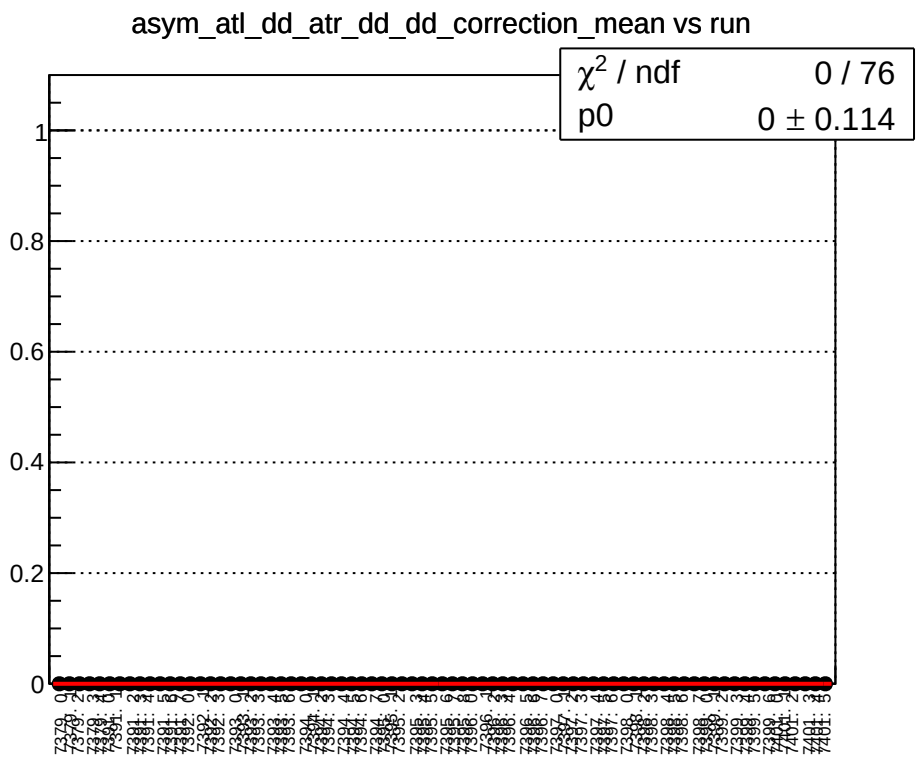

pull1D
Entries 77
Mean −0.01443
Std Dev 0.9612
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

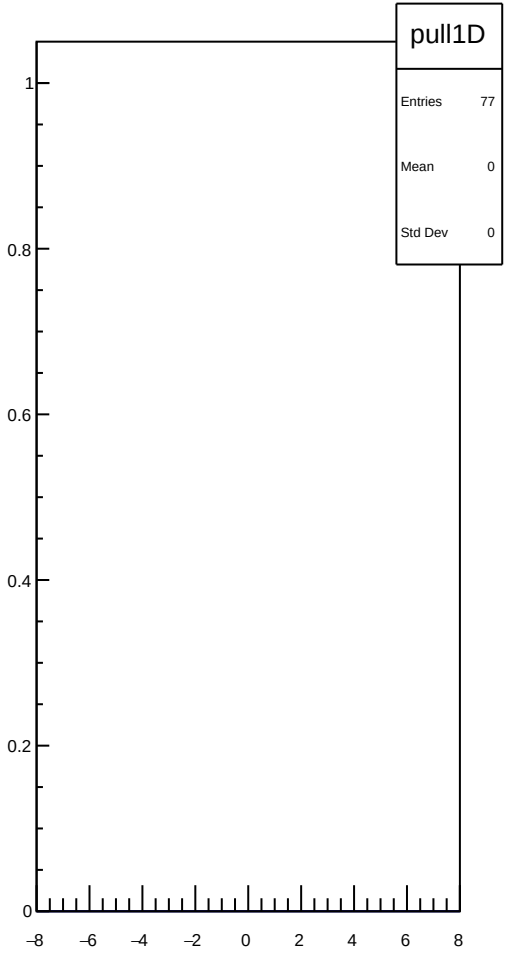

asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 5136 / 76
p0 4044 ± 3.302
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

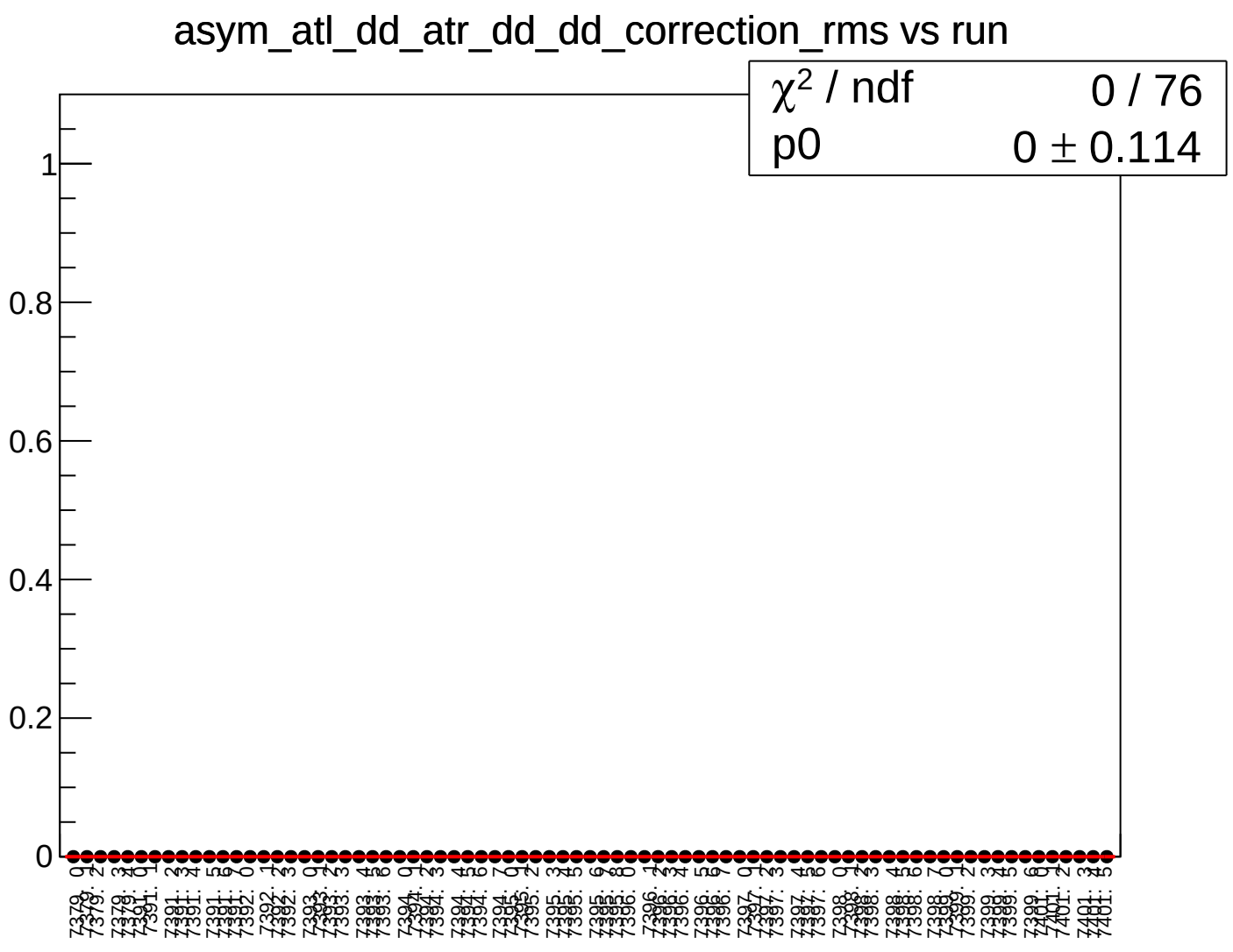

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 66.62 / 76
p0 −316.3 ± 1506
40000
20000
0
−20000
−40000
pull
Entries 77
Mean 95.29
Std Dev 151.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

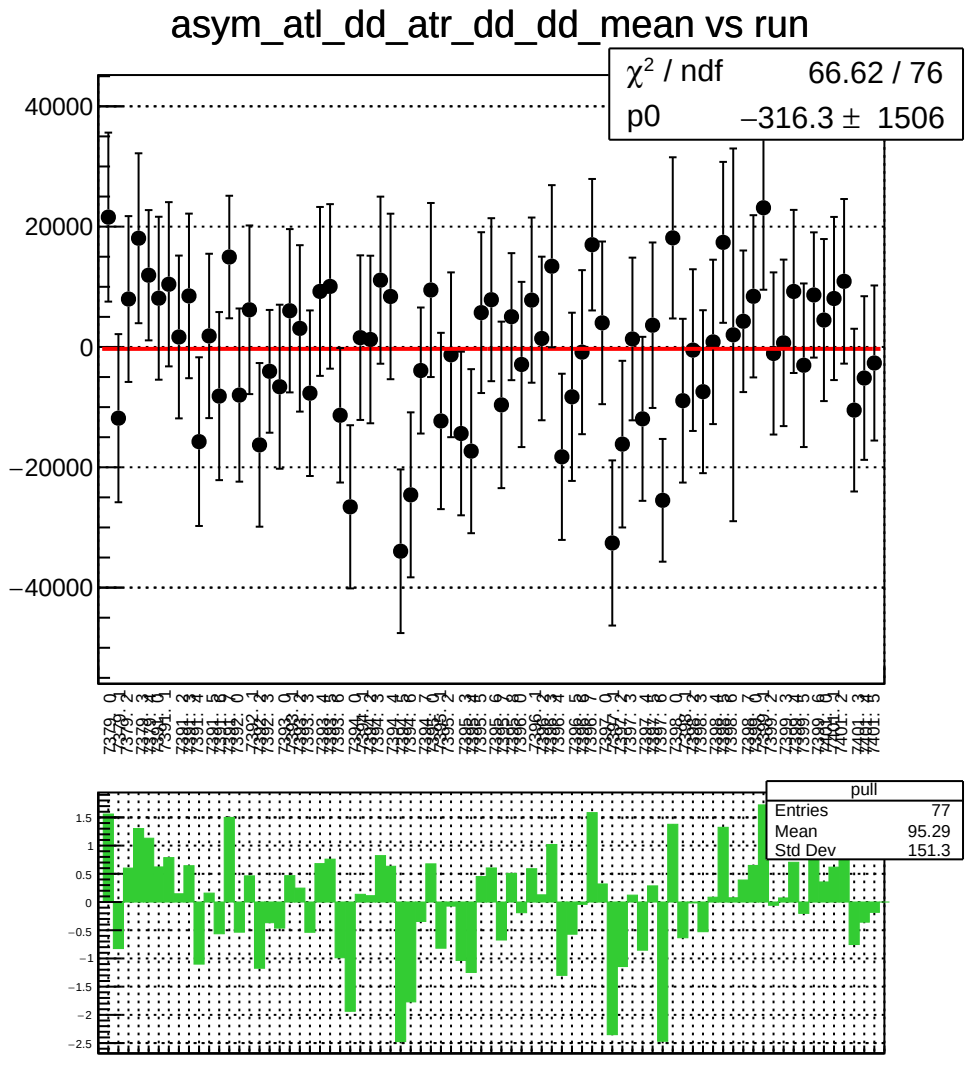

pull1D
Entries 77
Mean −0.005758
Std Dev 0.9301
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

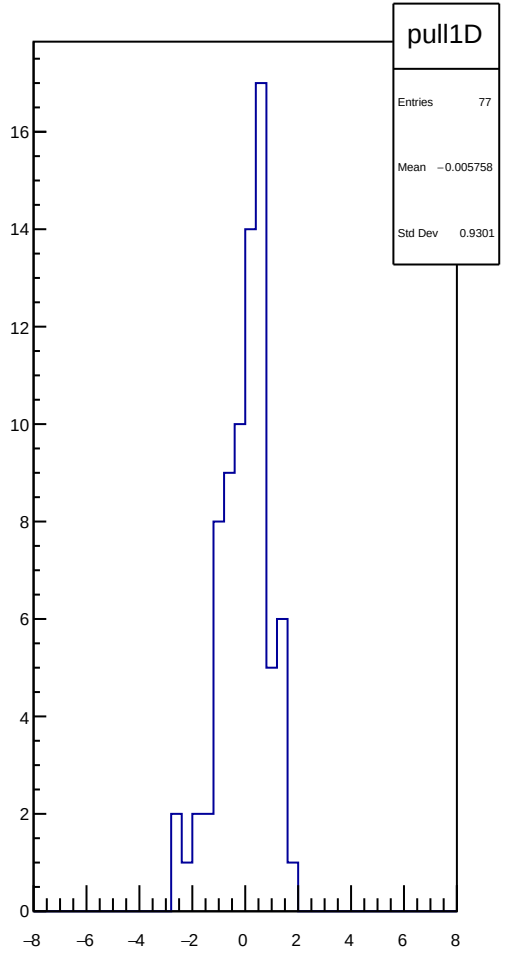

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 6000 / 76
p0 1304 ± 1.065
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

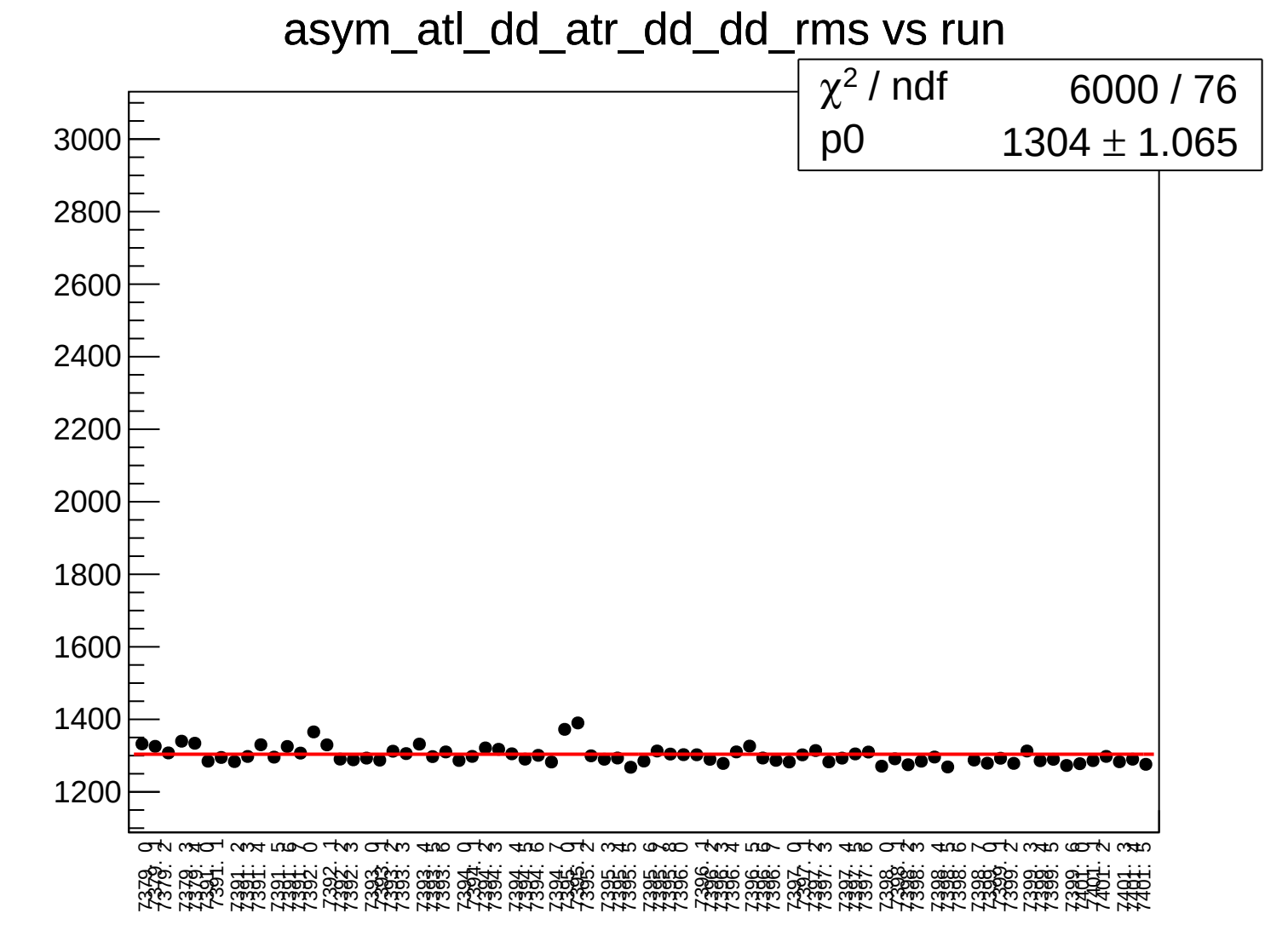

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ^2 / ndf 0 / 76
p0 0 ± 0.114
1
0.8
0.6
0.4
0.2
0

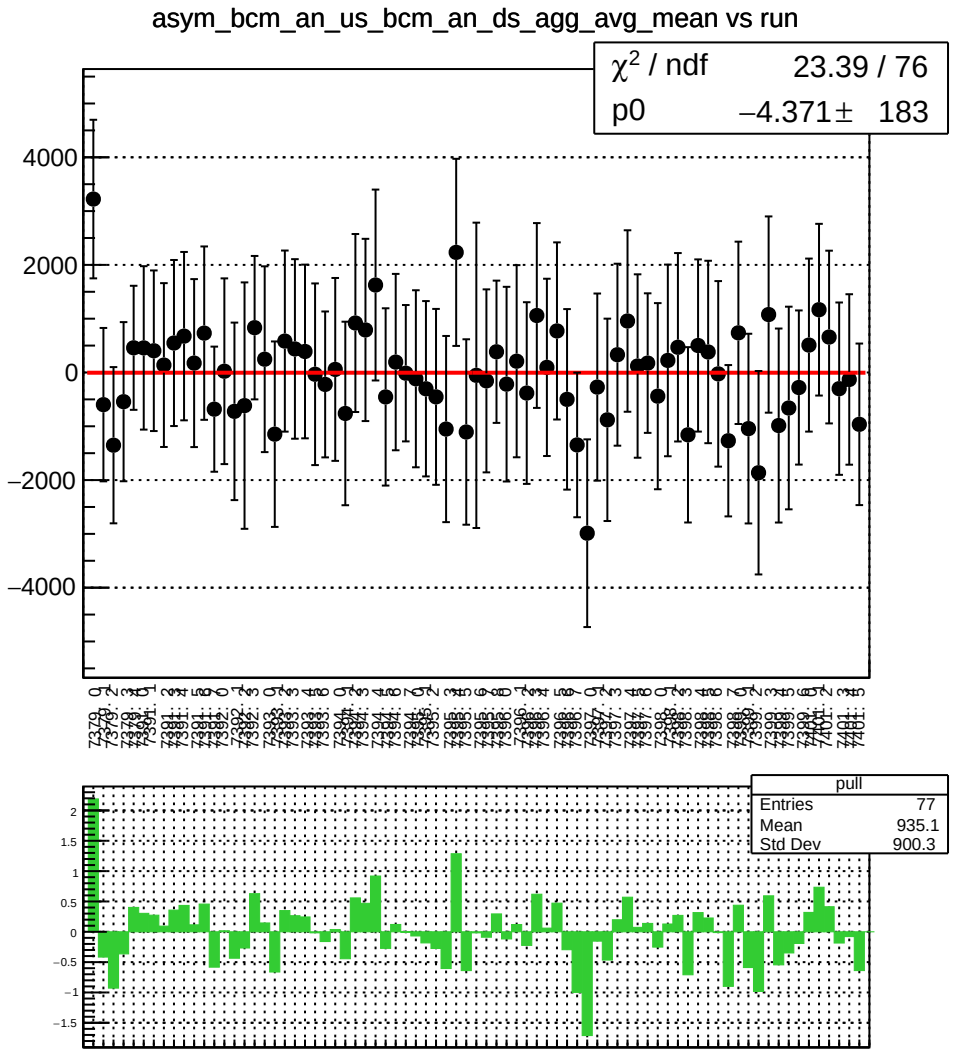

pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

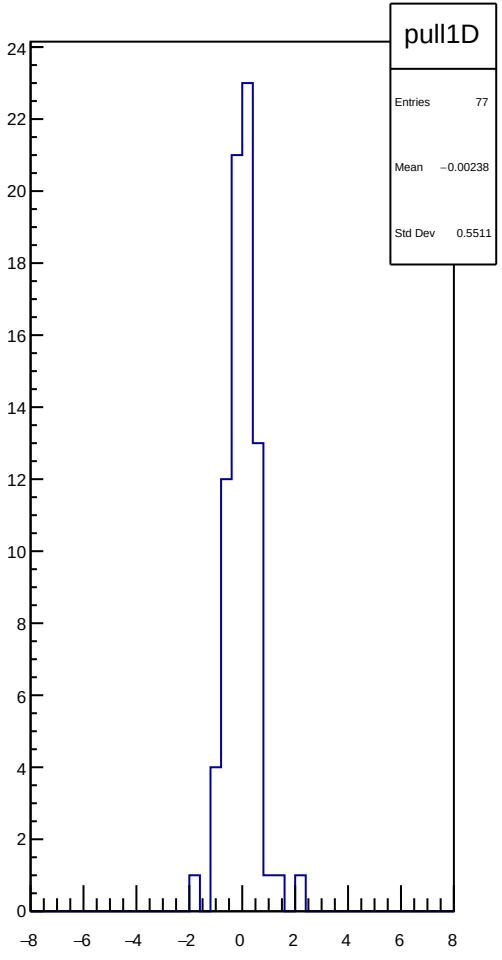

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 76
p0 0 ± 0.114
1
0.8
0.6
0.4
0.2
0

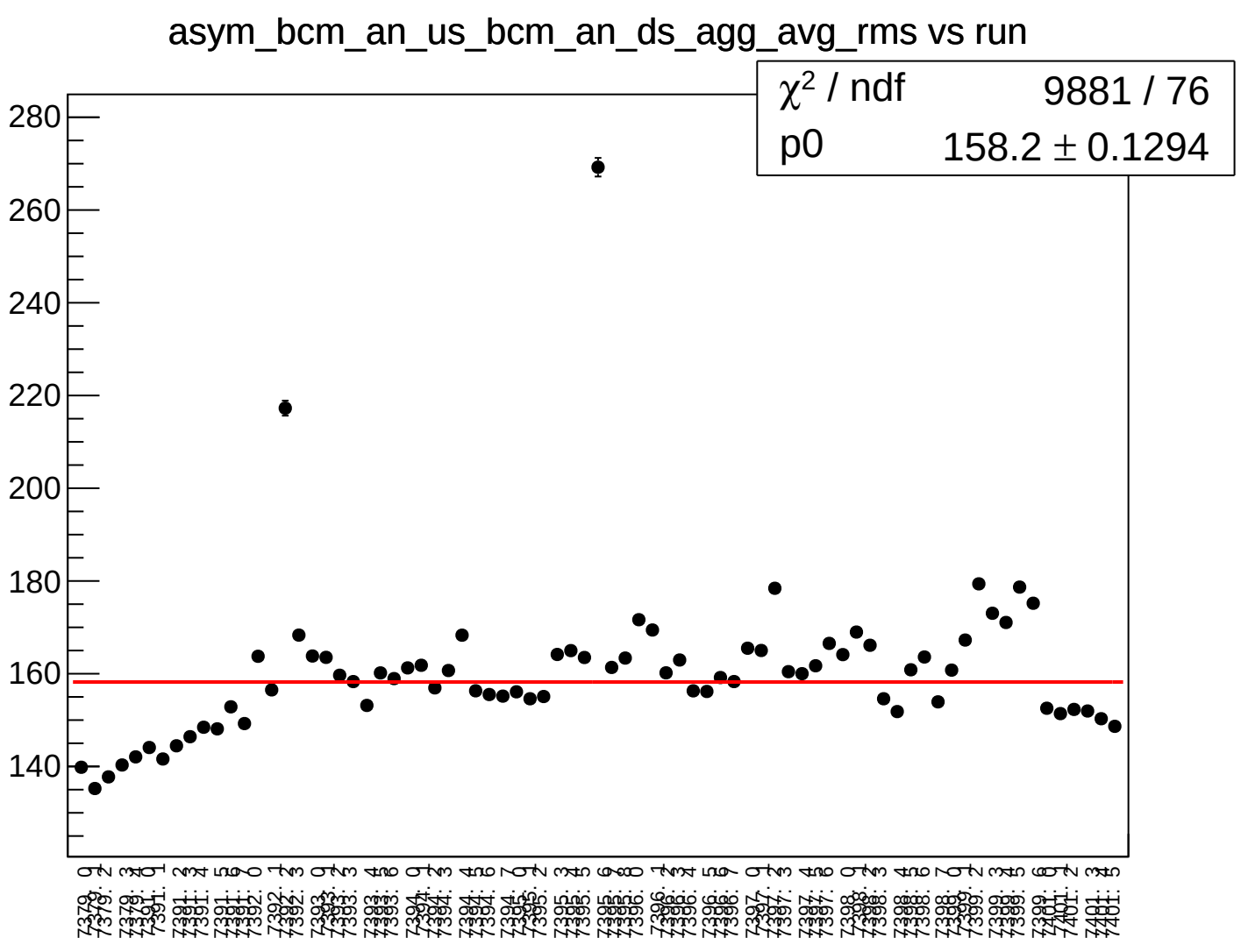

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 66.62 / 76
p0 −316.3 ± 1506
40000
20000
0
−20000
−40000
pull
Entries 77
Mean 95.29
Std Dev 151.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

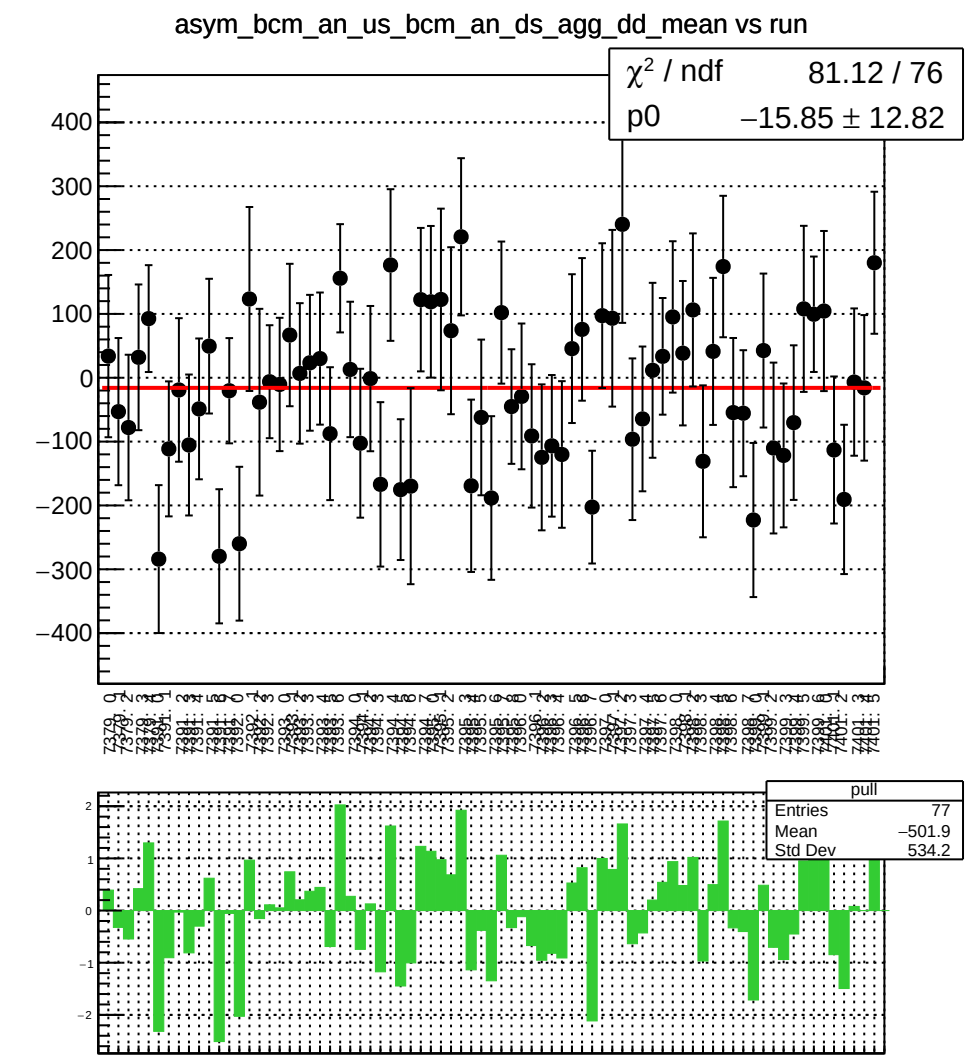

pull1D
Entries 77
Mean −0.005758
Std Dev 0.9301
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

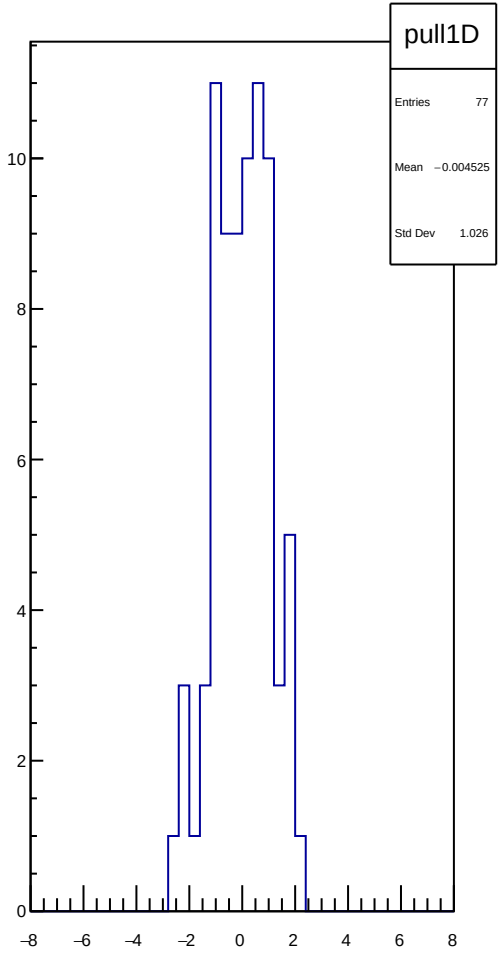

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 6000 / 76
p0 1304 ± 1.065
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

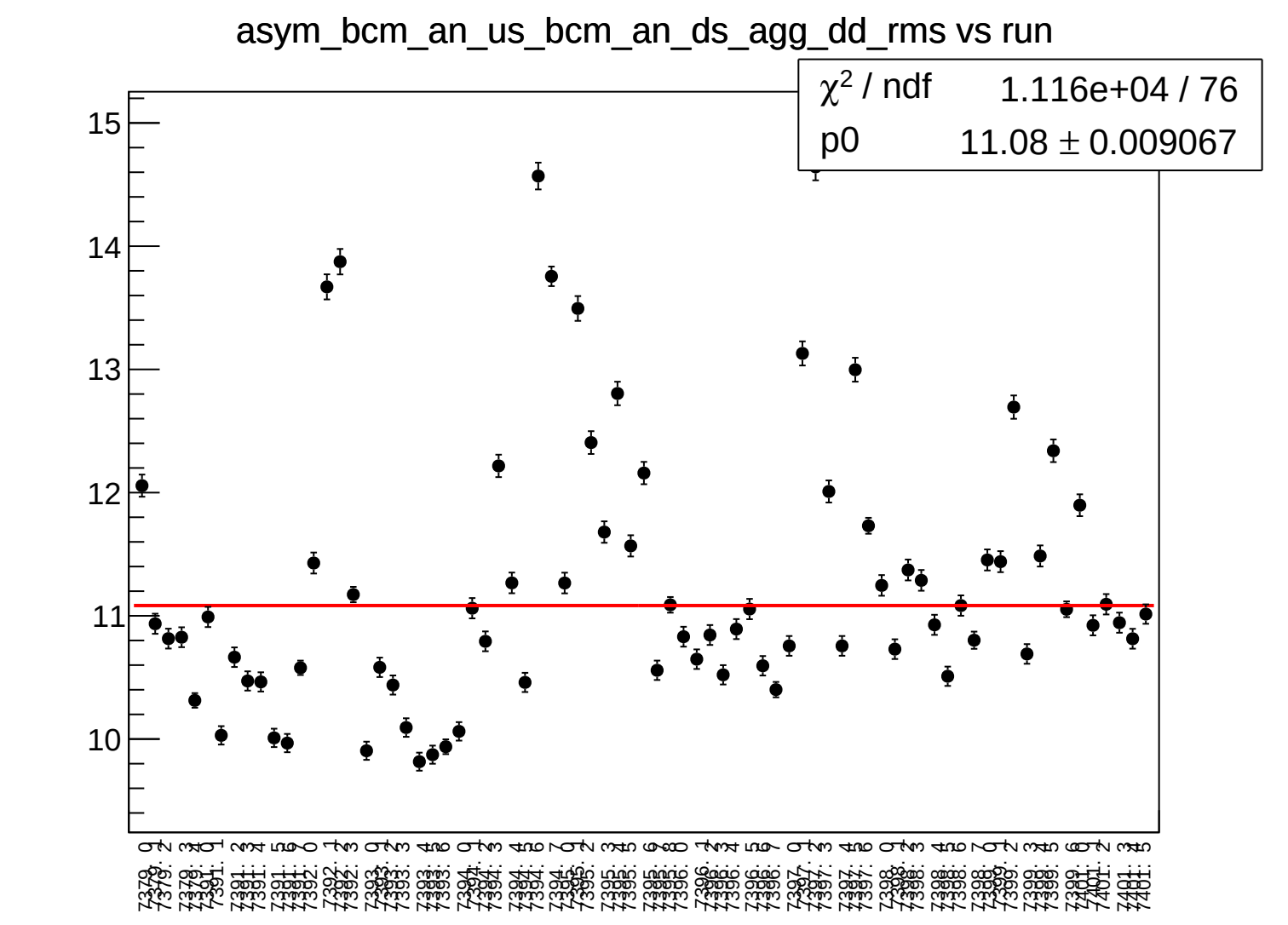

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 23.39 / 76
p0 −4.371± 183
pull
Entries 77
Mean 935.1
Std Dev 900.3

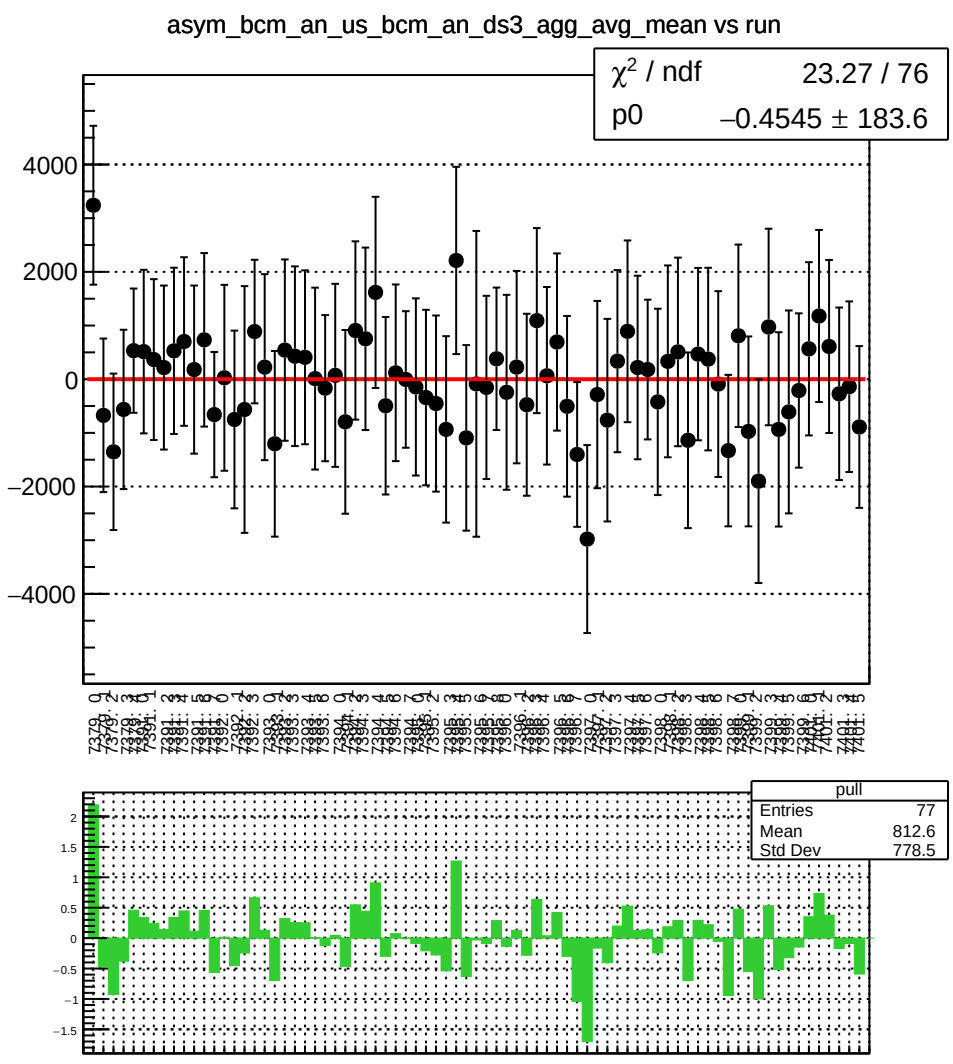

pull1D
Entries 77
Mean −0.00238
Std Dev 0.5511

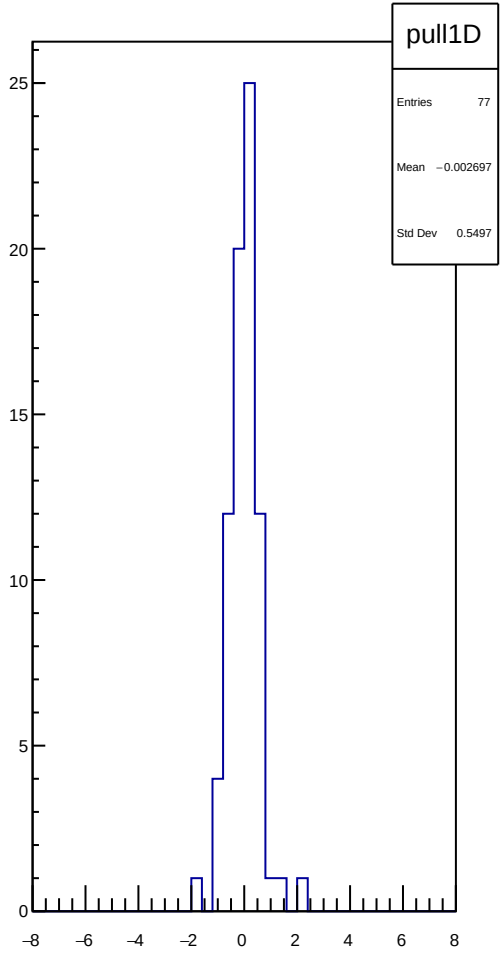

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9881 / 76
p0 158.2 ± 0.1294
280
260
240
220
200
180
160
140

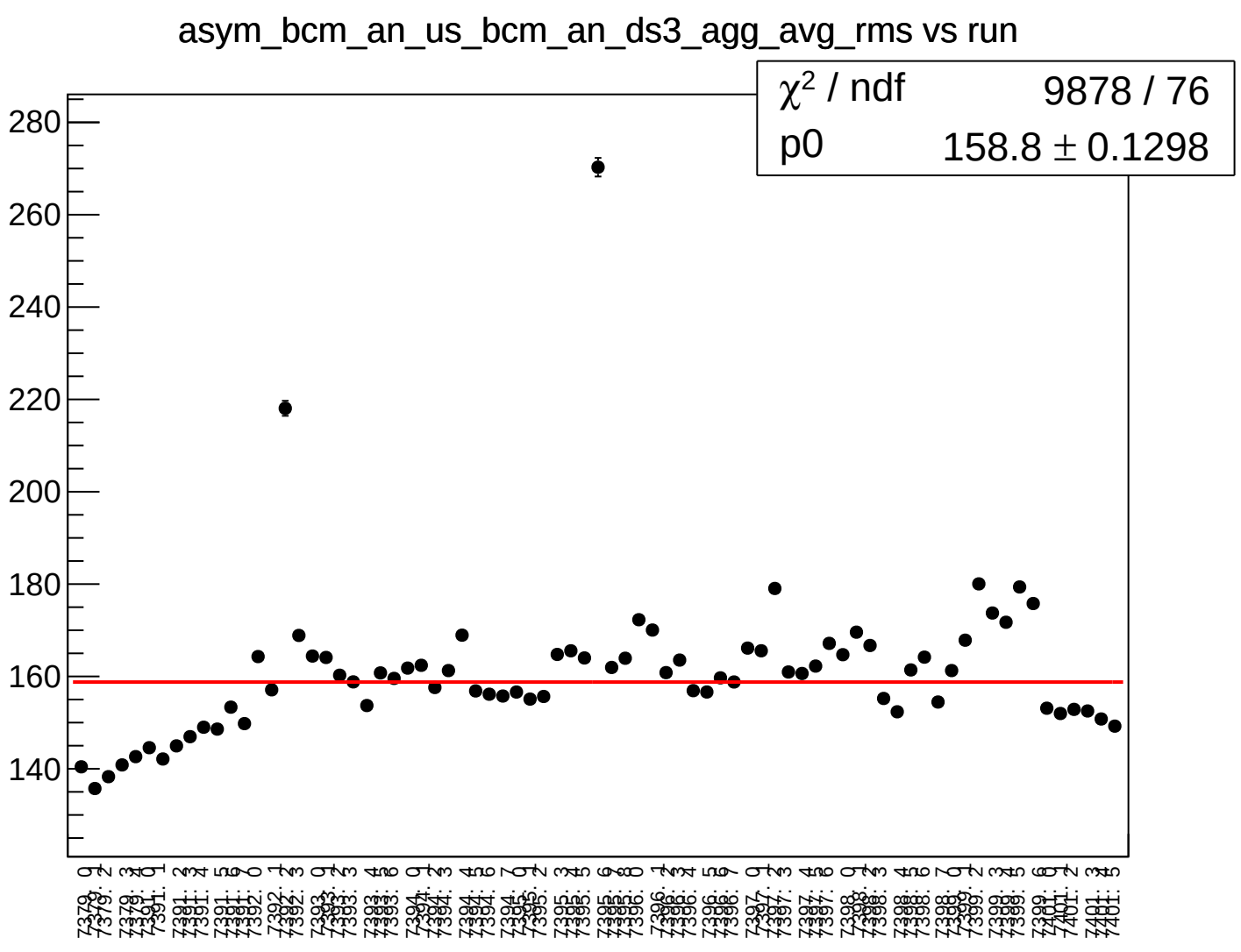

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 81.12 / 76
p0 −15.85 ± 12.82
pull
Entries 77
Mean −501.9
Std Dev 534.2

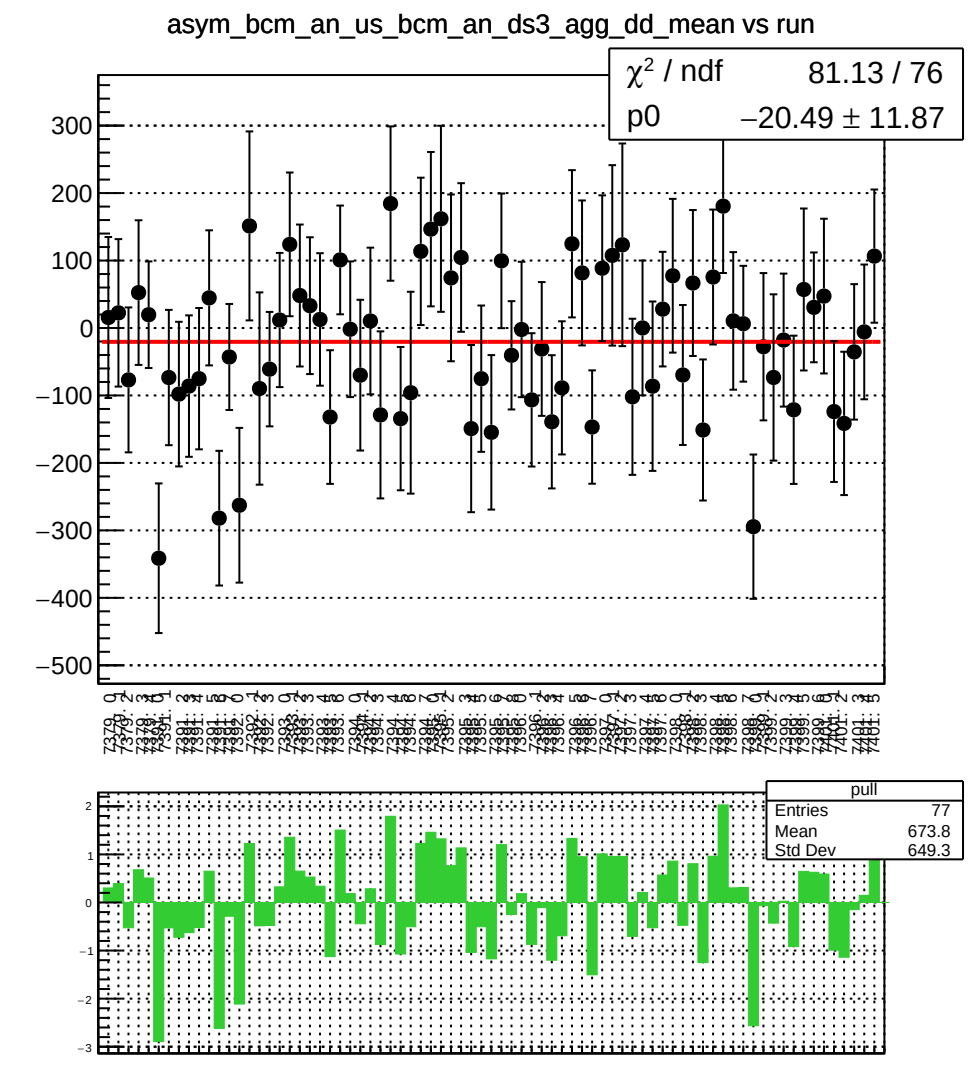

pull1D
Entries 77
Mean −0.004525
Std Dev 1.026

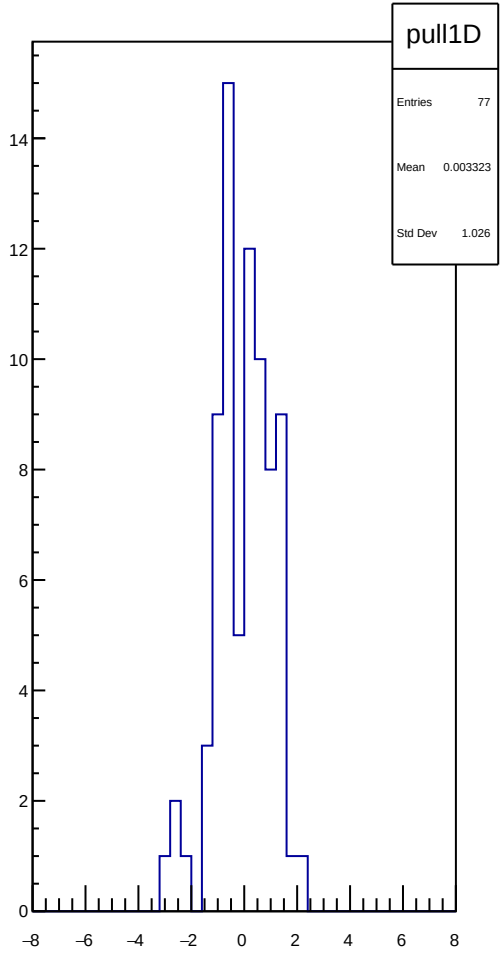

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.116e+04 / 76
p0 11.08 ± 0.009067
15
14
13
12
11
10

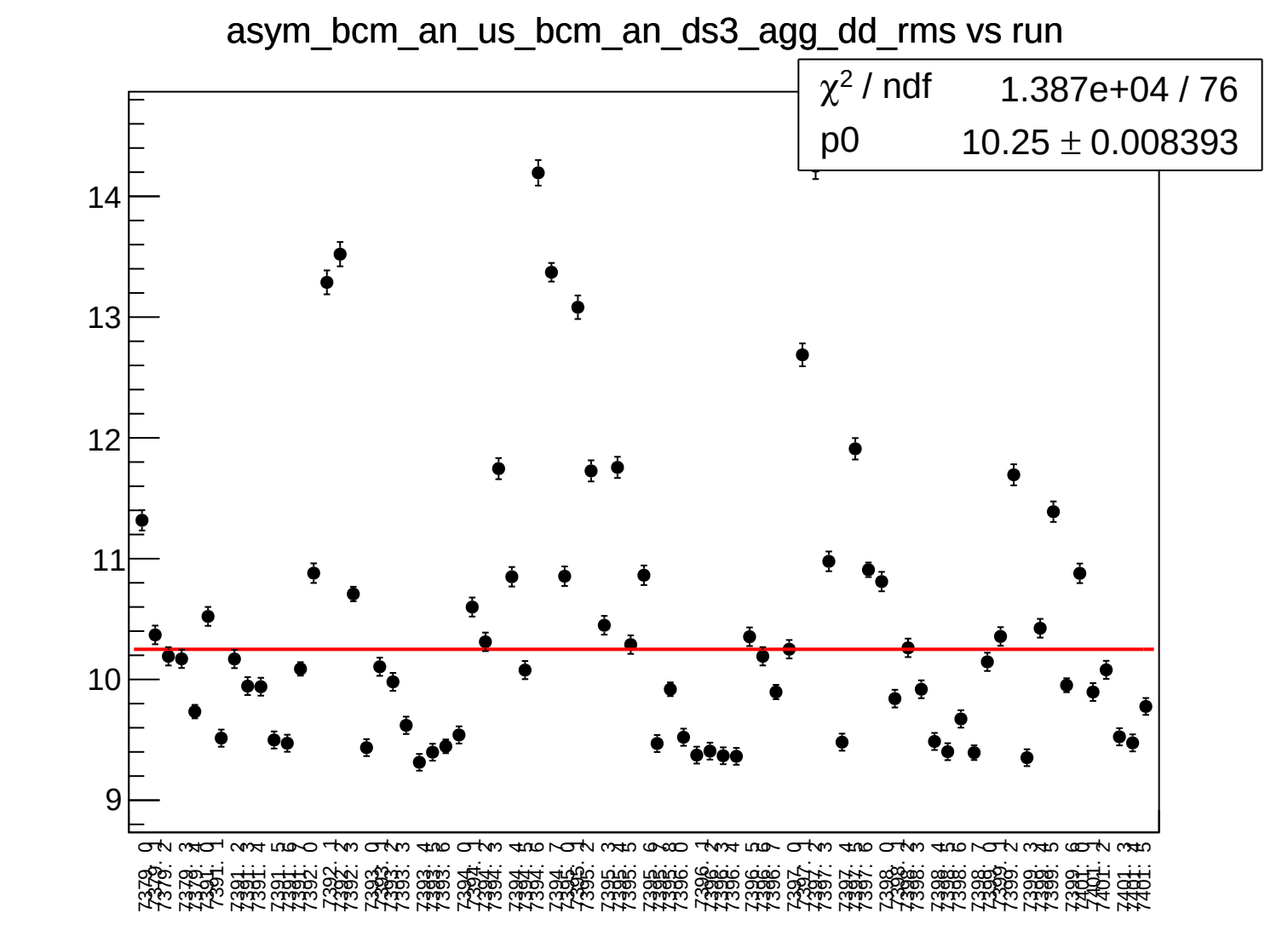

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 23.27 / 76
p0 −0.4545 ± 183.6
4000
2000
0
−2000
−4000
pull
Entries 77
Mean 812.6
Std Dev 778.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

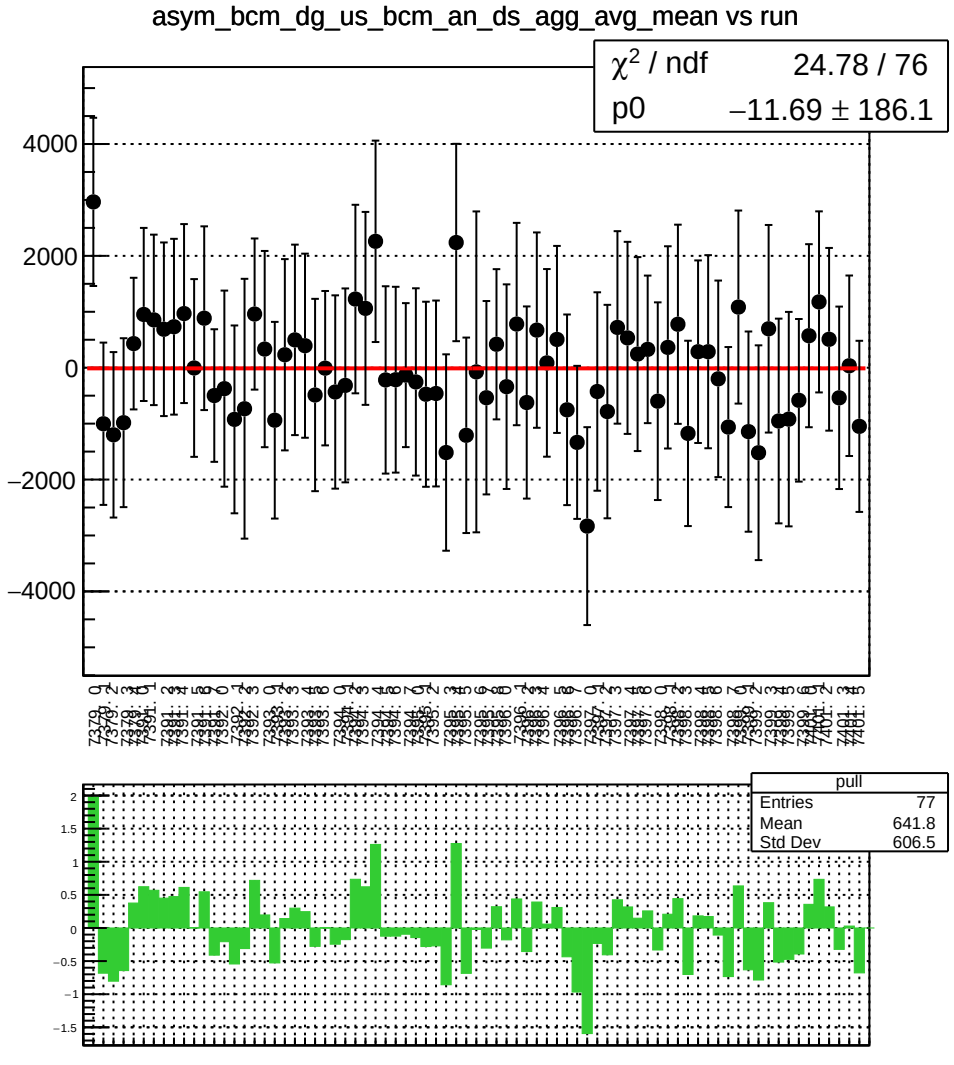

pull1D
Entries 77
Mean −0.002697
Std Dev 0.5497
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

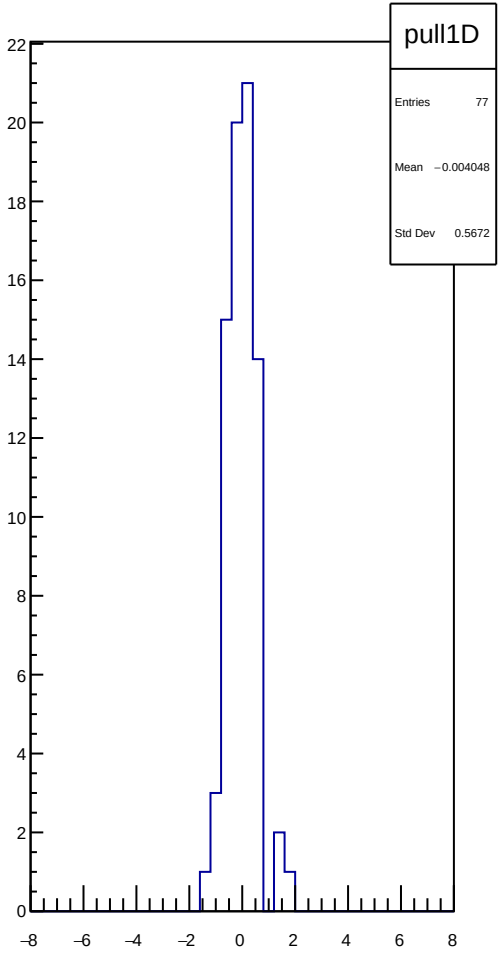

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 9878 / 76
p0 158.8 ± 0.1298
280
260
240
220
200
180
160
140

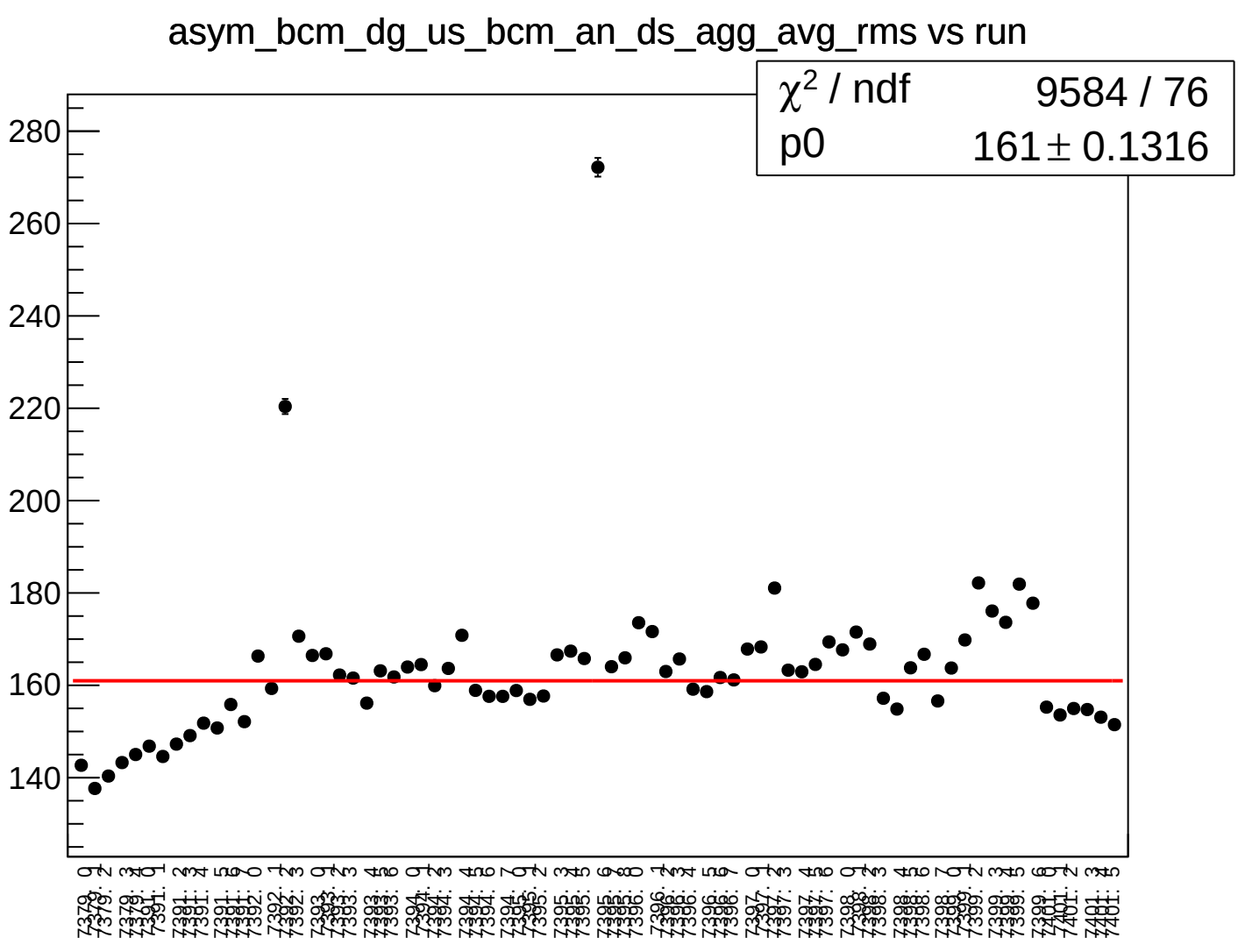

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 81.13 / 76
p0 −20.49 ± 11.87
pull
Entries 77
Mean 673.8
Std Dev 649.3

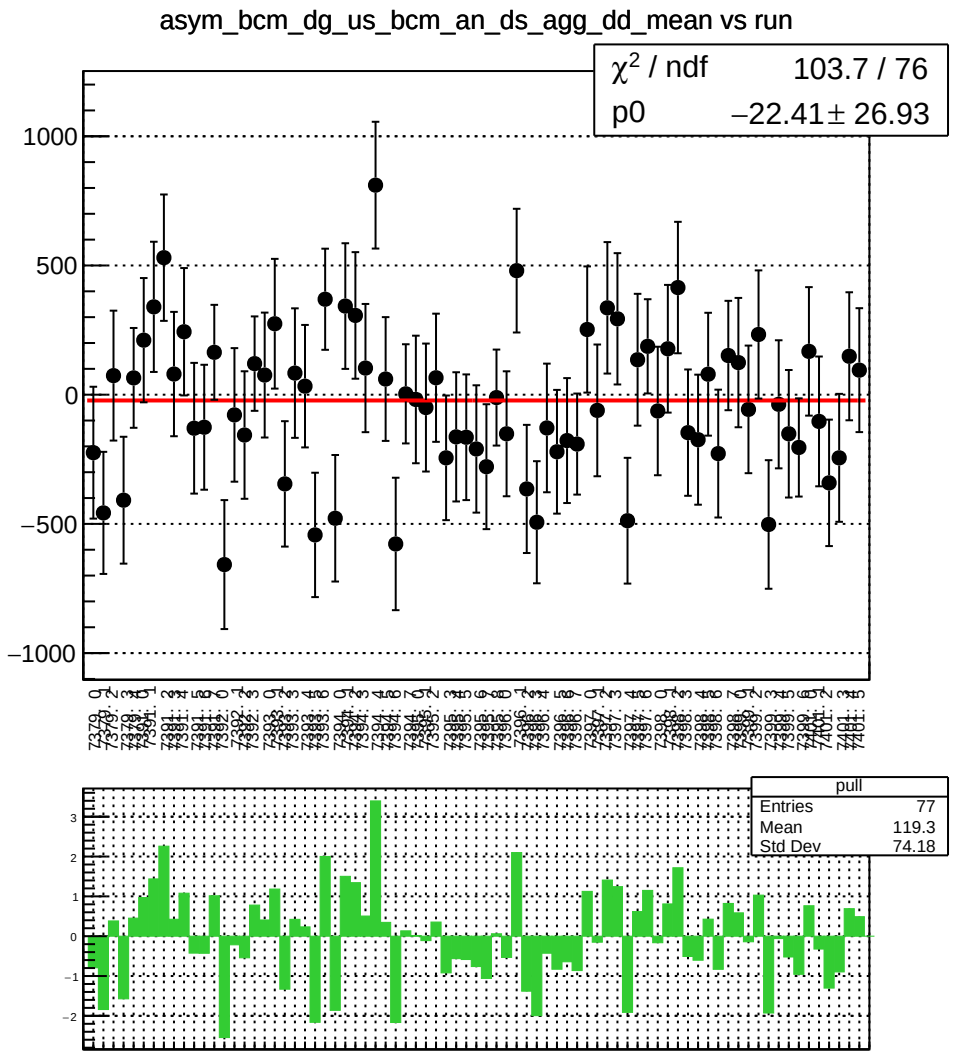

pull1D
Entries 77
Mean 0.003323
Std Dev 1.026

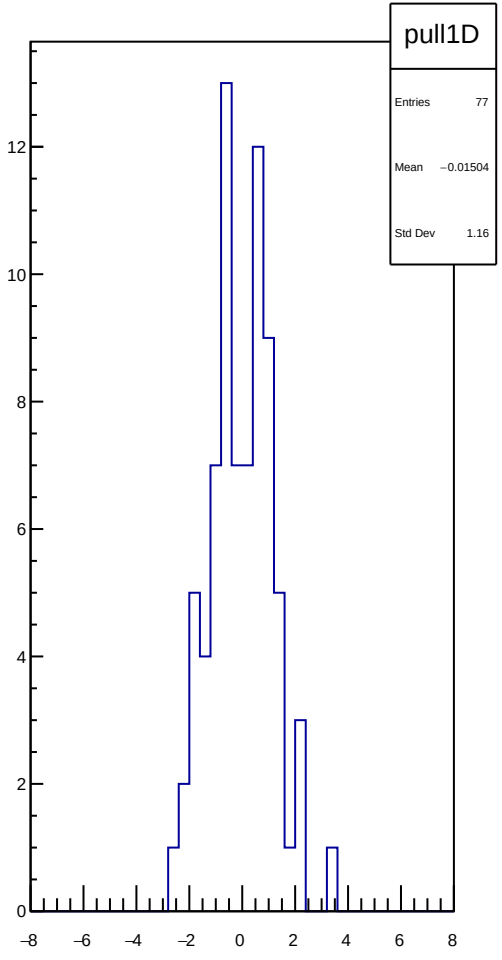

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.387e+04 / 76
p0 10.25 ± 0.008393
14
13
12
11
10
9

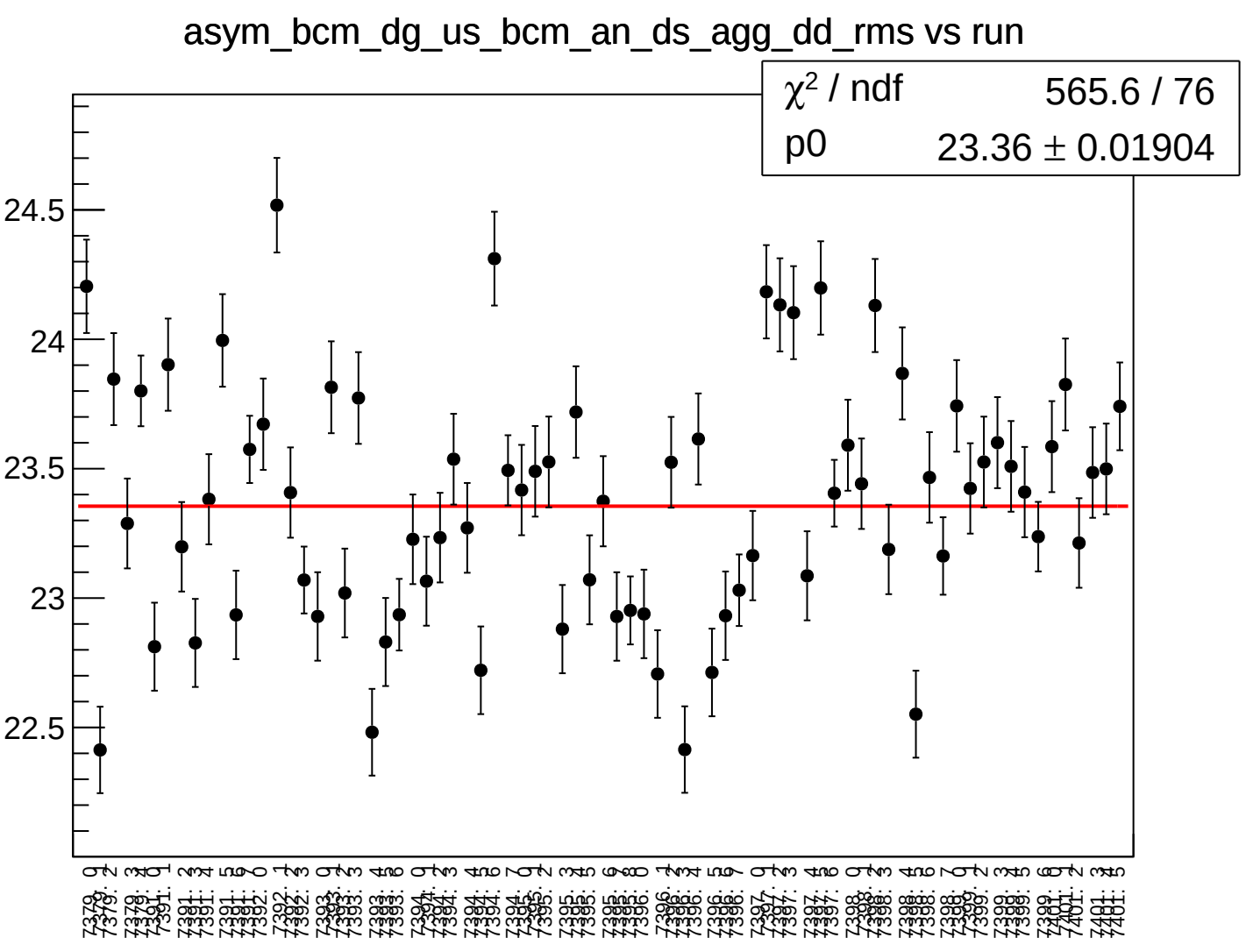

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.78 / 76
p0 −11.69 ± 186.1
4000
2000
0
−2000
−4000
pull
Entries 77
Mean 641.8
Std Dev 606.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

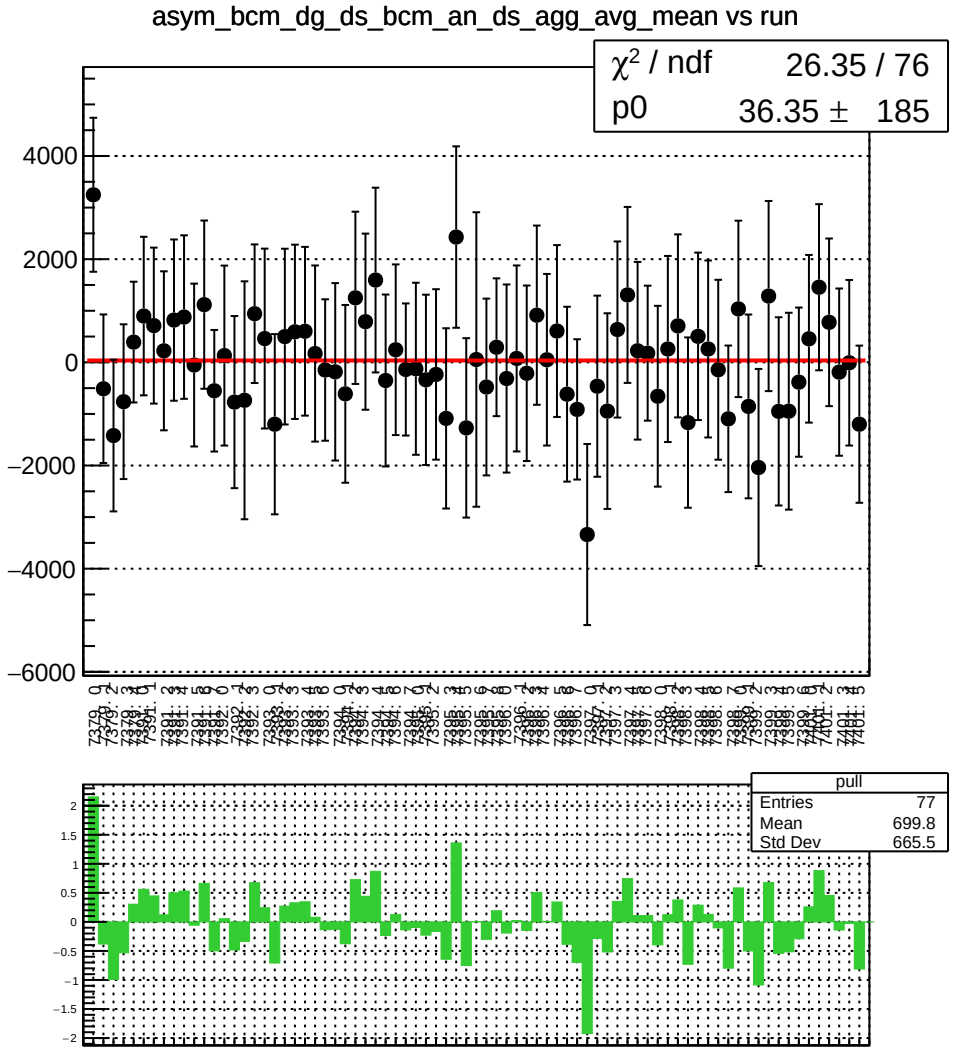

pull1D
Entries 77
Mean −0.004048
Std Dev 0.5672
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

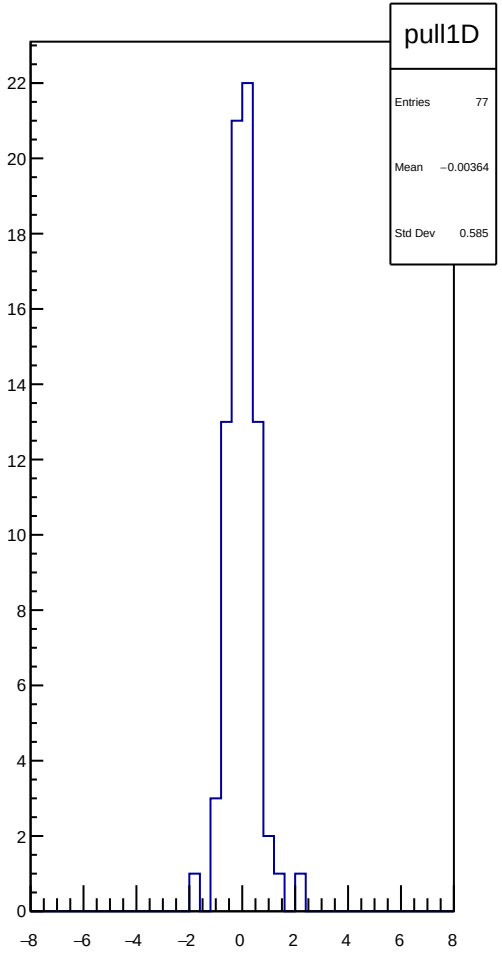

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9584 / 76
p0 161 ± 0.1316
280
260
240
220
200
180
160
140

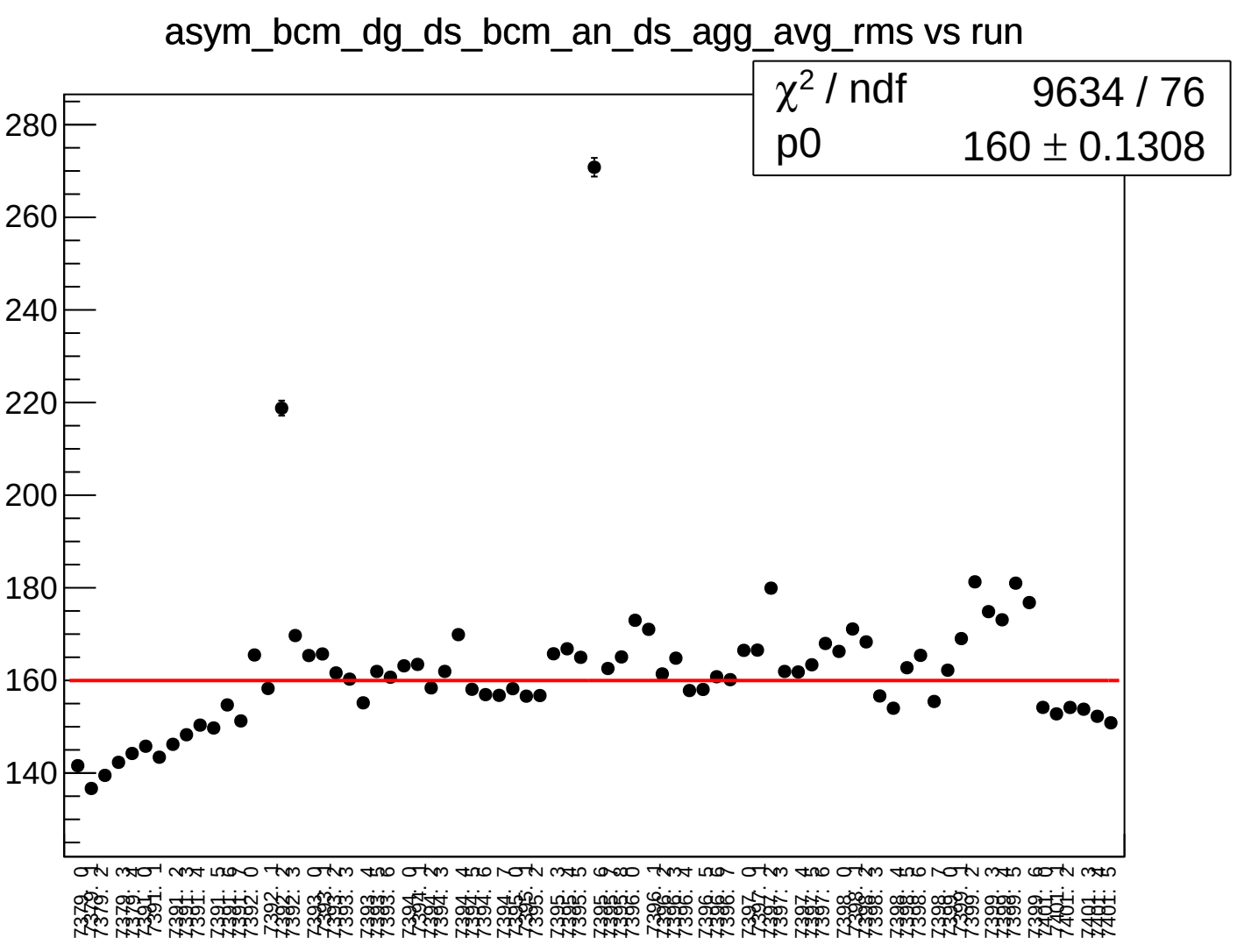

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 103.7 / 76
p0 −22.41 ± 26.93
1000
500
0
−500
−1000
pull
Entries 77
Mean 119.3
Std Dev 74.18
3
2
1
0
−1
−2

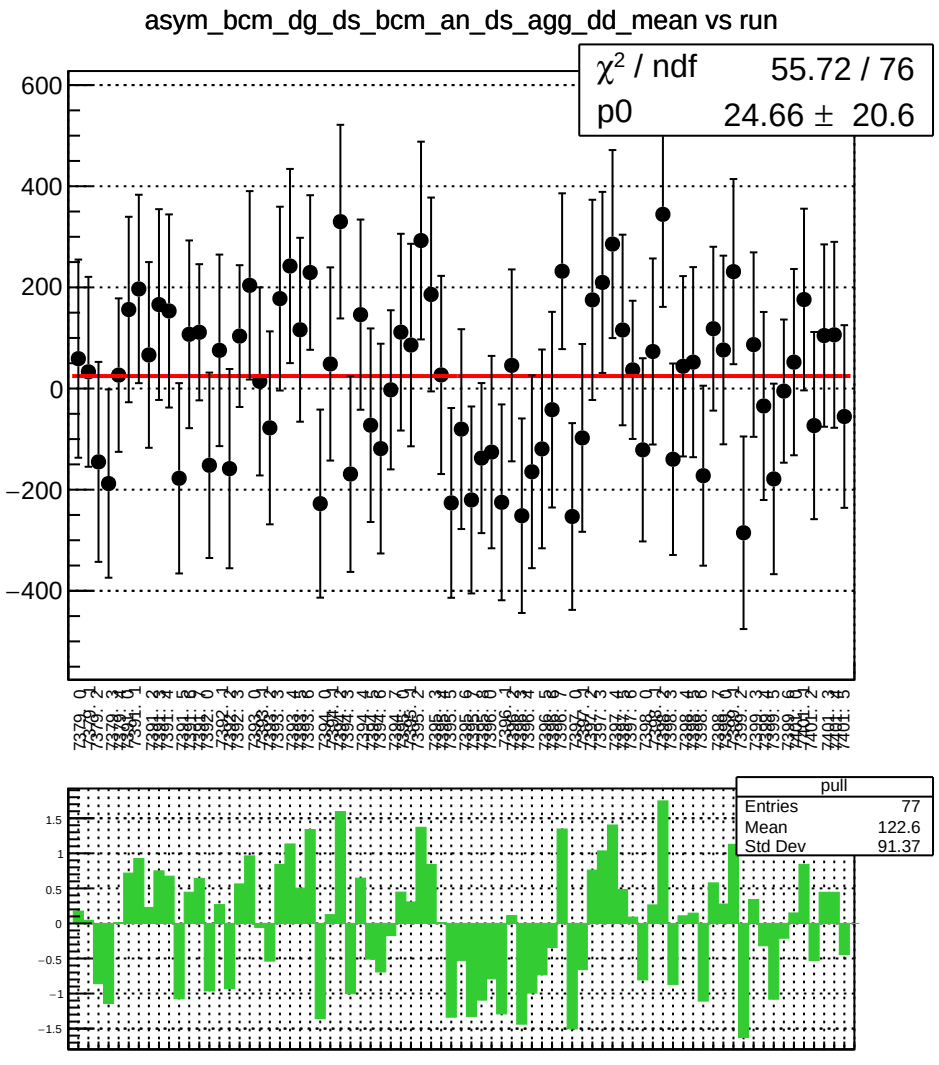

pull1D
Entries 77
Mean −0.01504
Std Dev 1.16
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

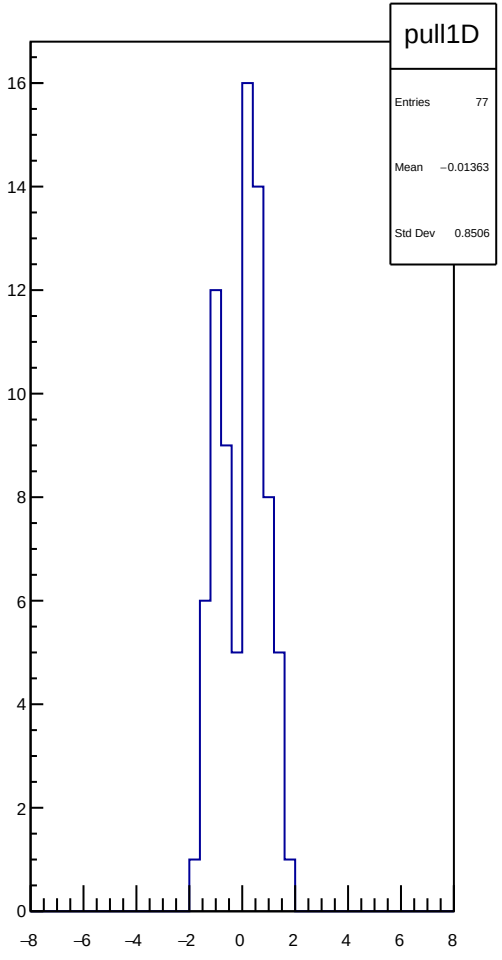

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 565.6 / 76
p0 23.36 ± 0.01904
24.5
24
23.5
23
22.5

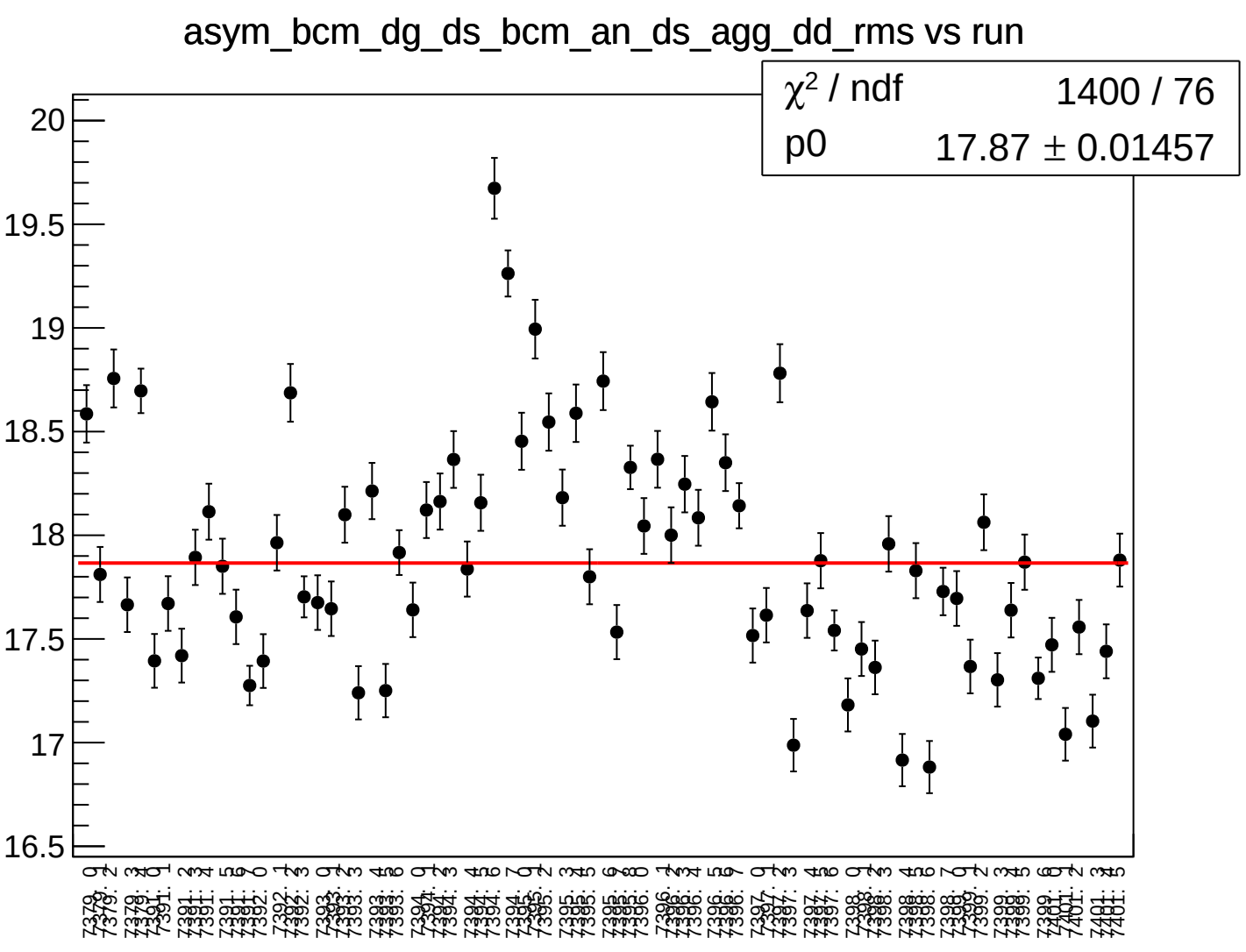

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 26.35 / 76
p0 36.35 ± 185
pull
Entries 77
Mean 699.8
Std Dev 665.5

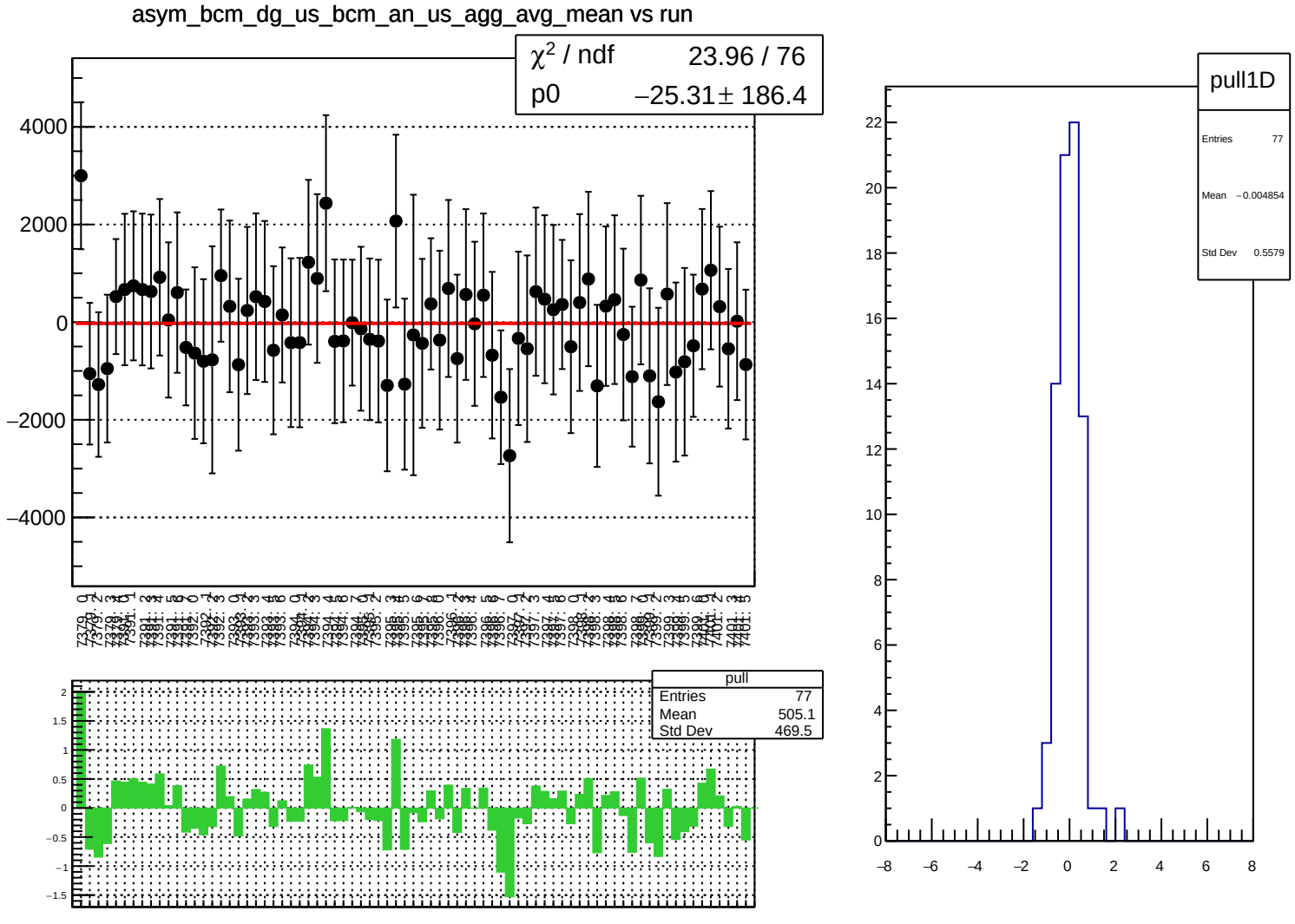

pull1D
Entries 77
Mean −0.00364
Std Dev 0.585

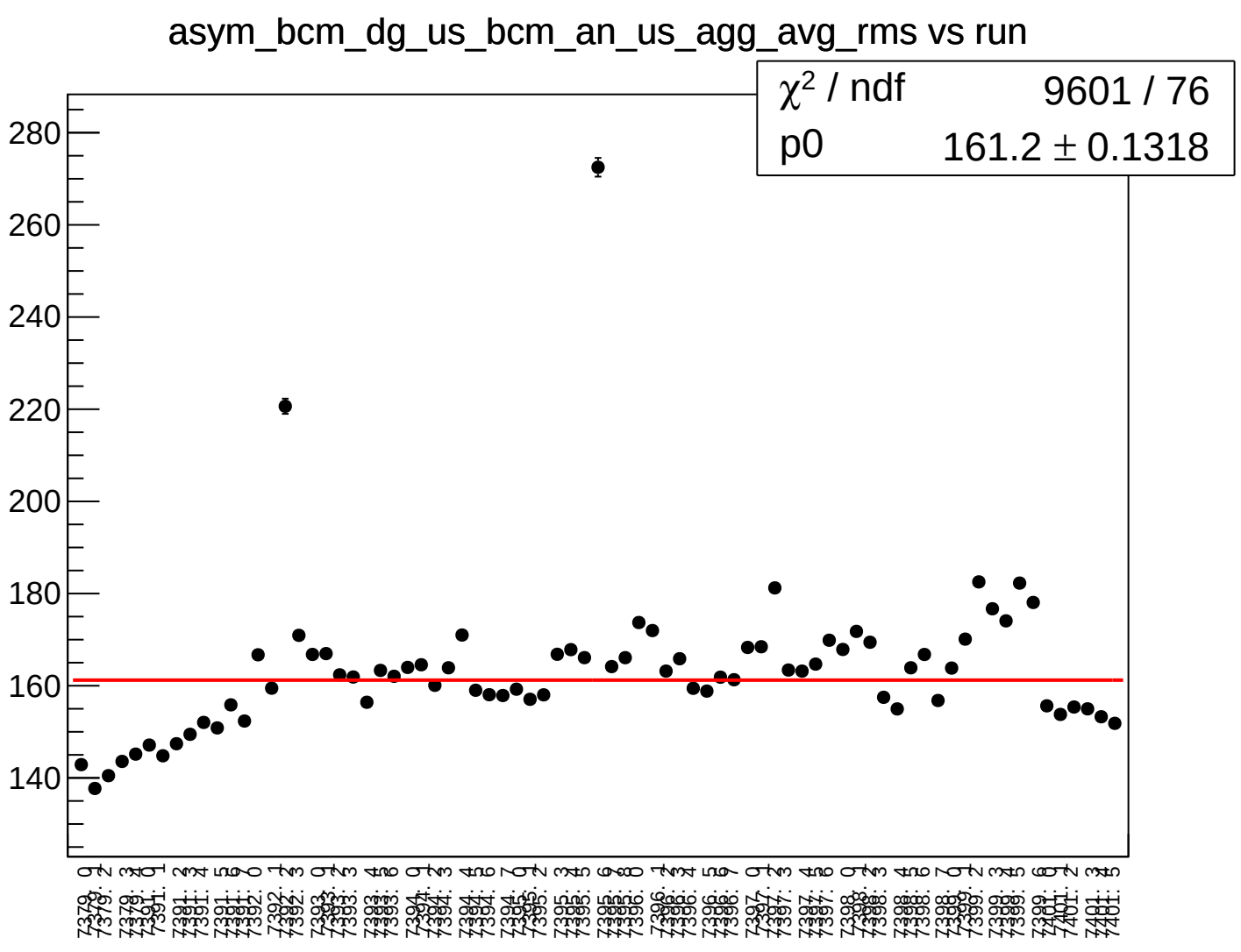

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9634 / 76
p0 160 ± 0.1308
280
260
240
220
200
180
160
140

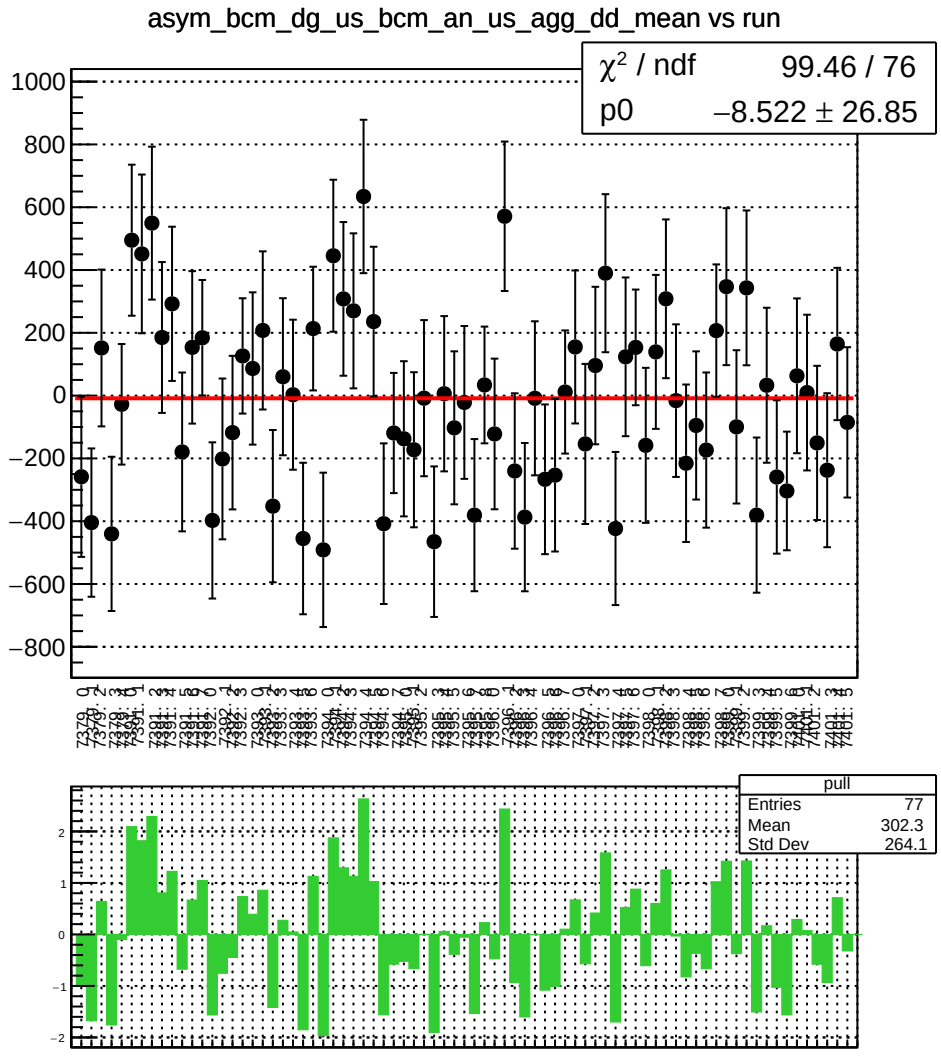

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 55.72 / 76
p0 24.66 ± 20.6
pull
Entries 77
Mean 122.6
Std Dev 91.37

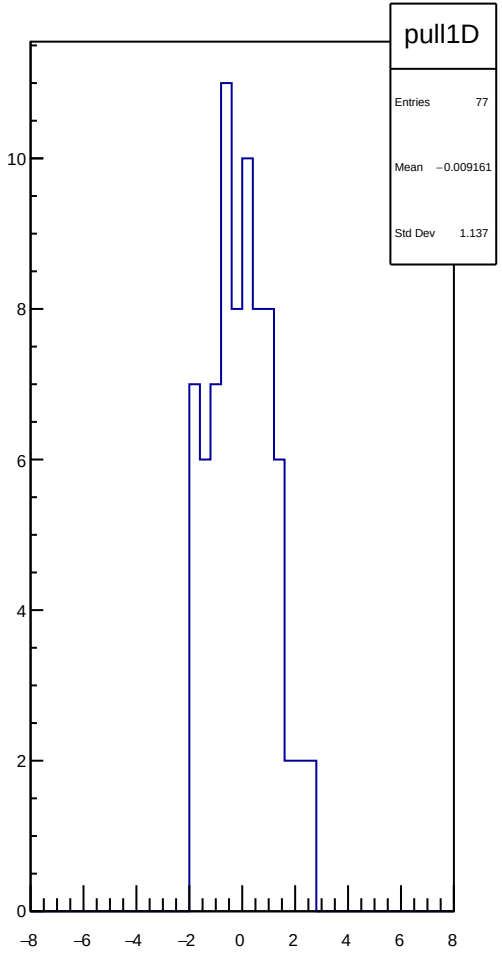

pull1D
Entries 77
Mean −0.01363
Std Dev 0.8506

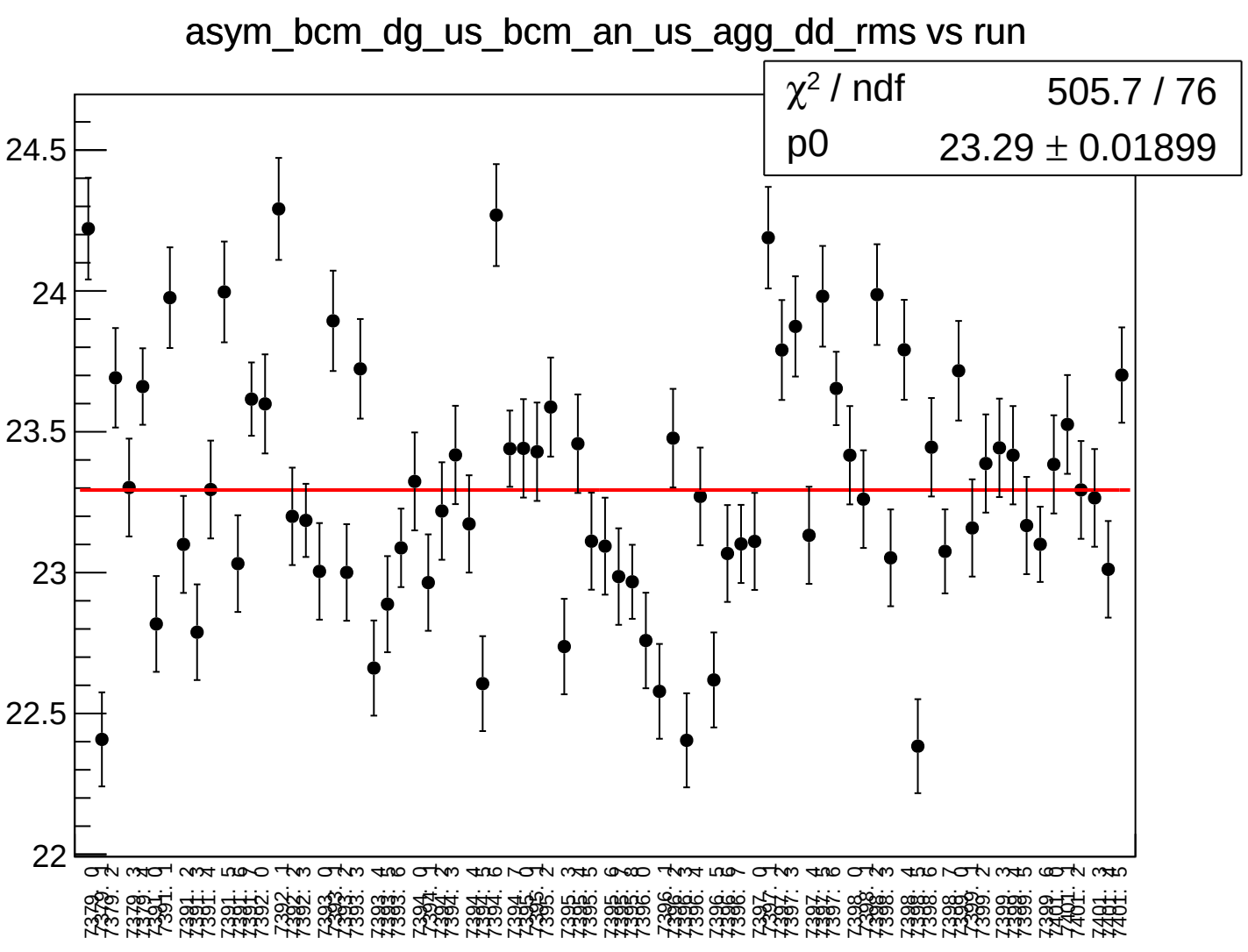

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1400 / 76
p0 17.87 ± 0.01457
20
19.5
19
18.5
18
17.5
17
16.5

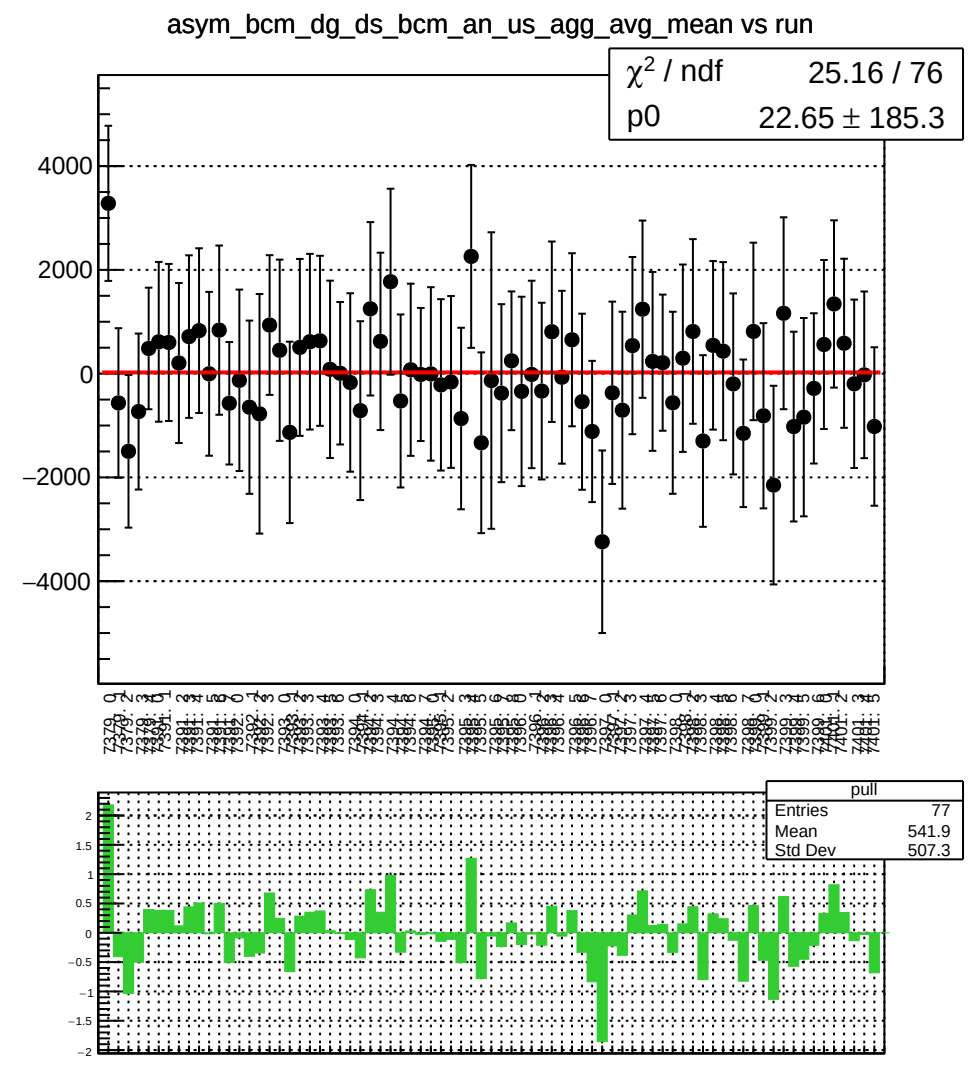

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 23.96 / 76
p0 −25.31 ± 186.4
4000
2000
0
−2000
−4000
pull
Entries 77
Mean 505.1
Std Dev 469.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 77
Mean −0.004854
Std Dev 0.5579
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

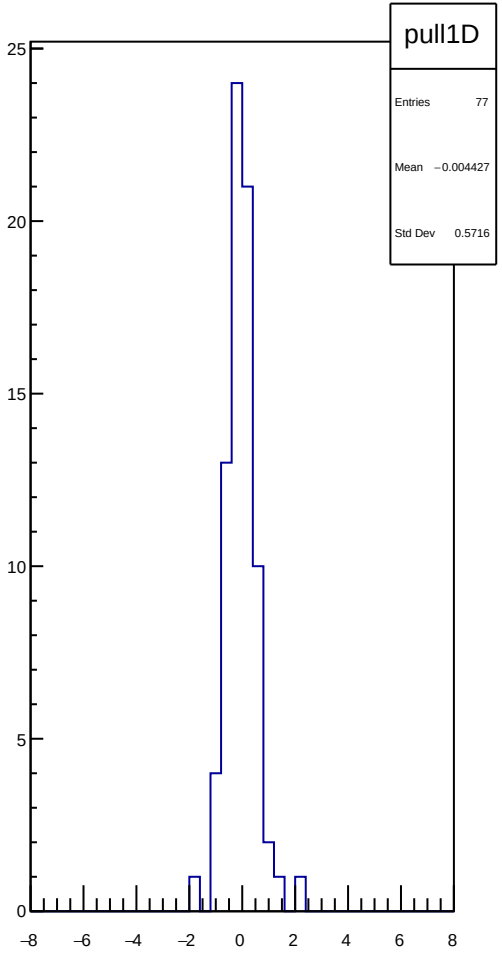

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 9601 / 76
p0 161.2 ± 0.1318
280
260
240
220
200
180
160
140

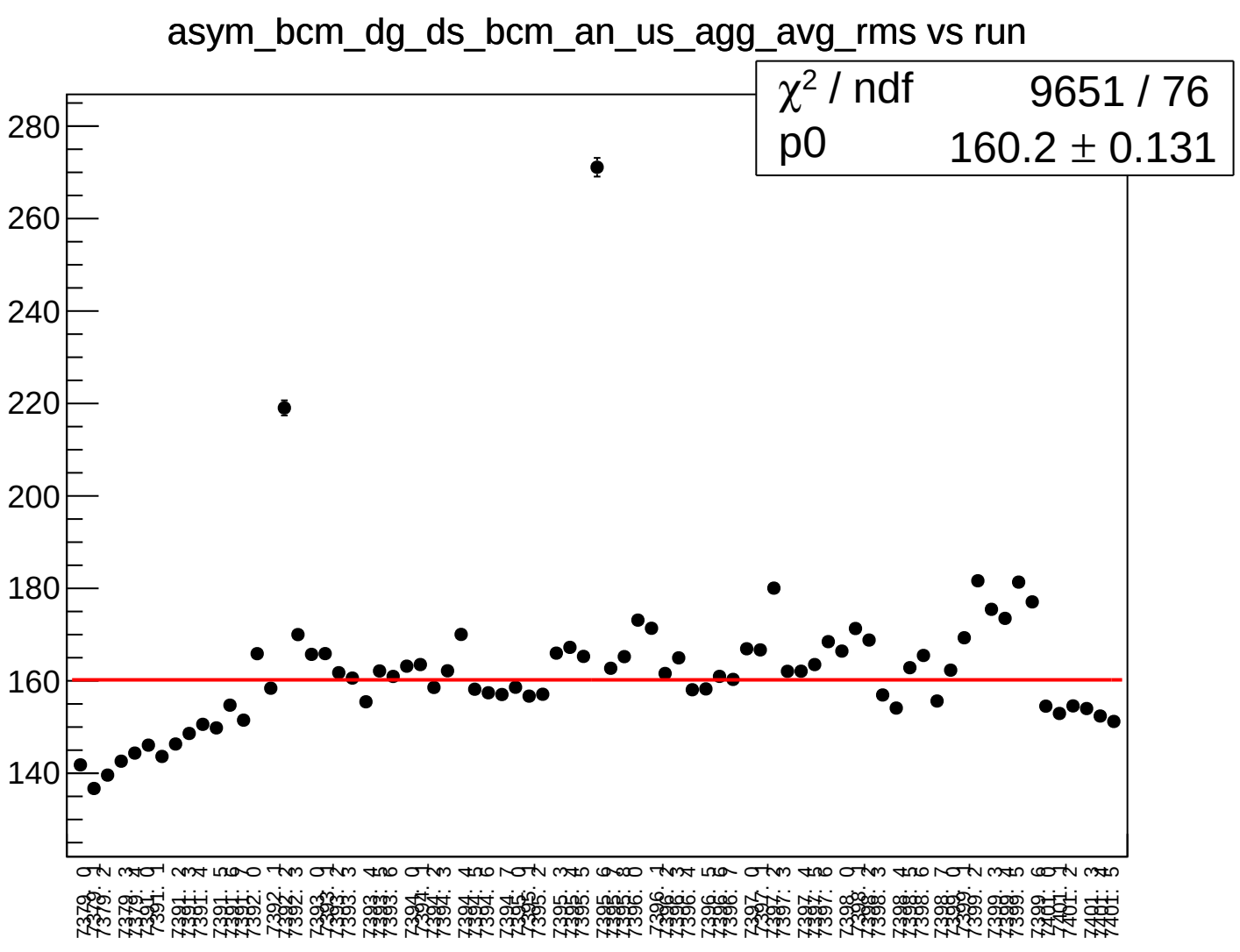

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 99.46 / 76
p0 −8.522 ± 26.85
pull
Entries 77
Mean 302.3
Std Dev 264.1

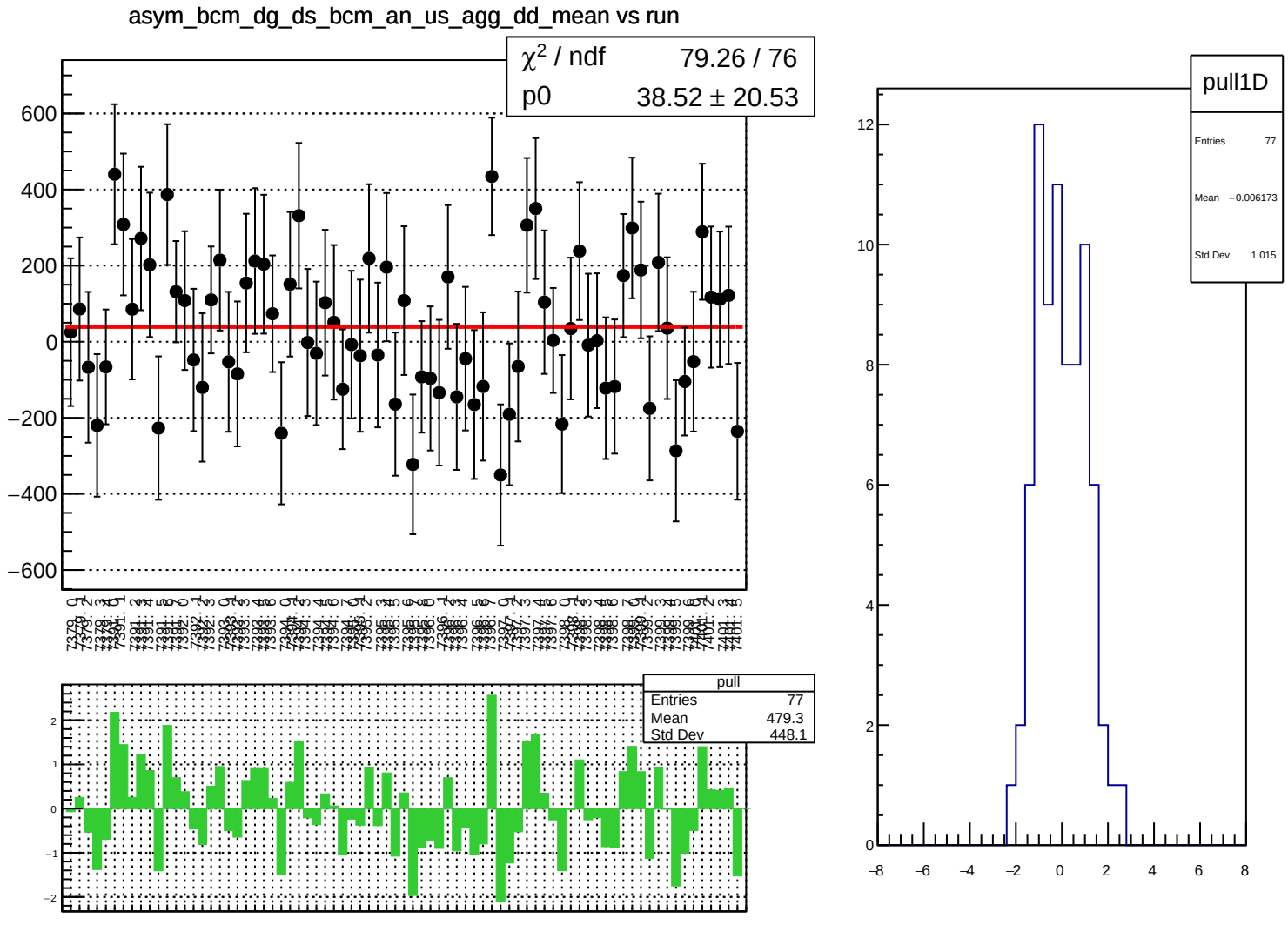

pull1D
Entries 77
Mean −0.009161
Std Dev 1.137

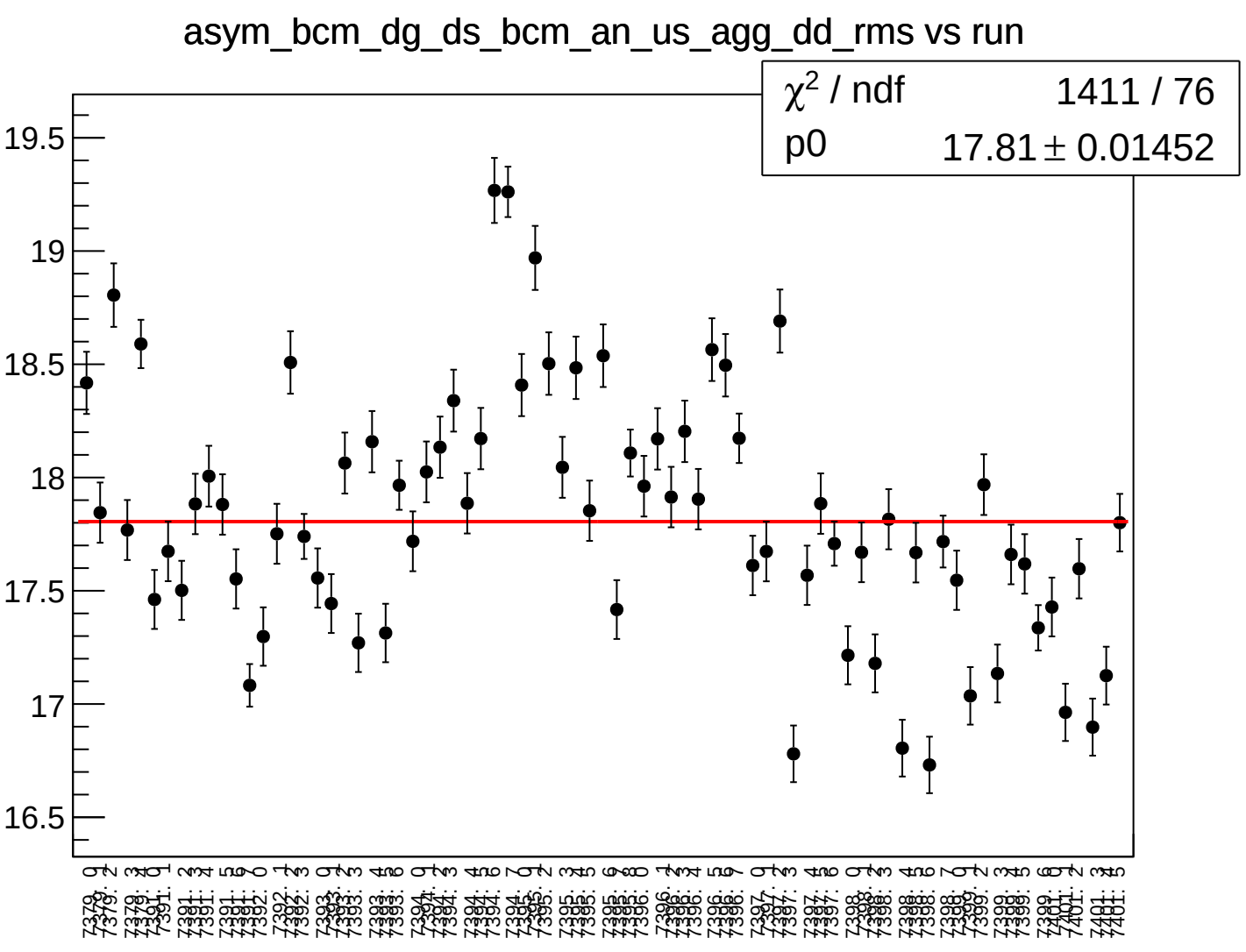

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 505.7 / 76
p0 23.29 ± 0.01899
24.5
24
23.5
23
22.5
22

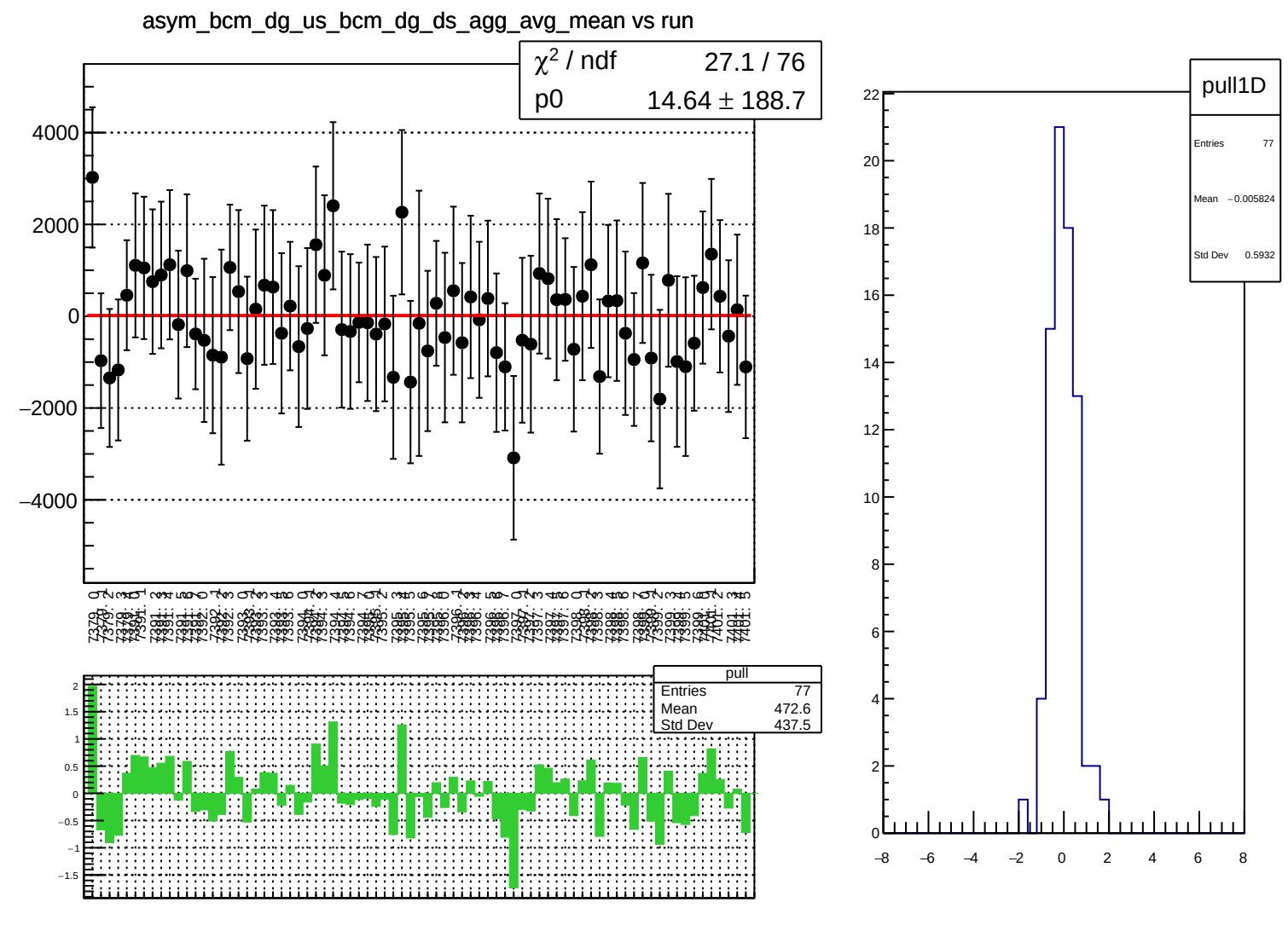

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 25.16 / 76
p0 22.65 ± 185.3
4000
2000
0
−2000
−4000
pull
Entries 77
Mean 541.9
Std Dev 507.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

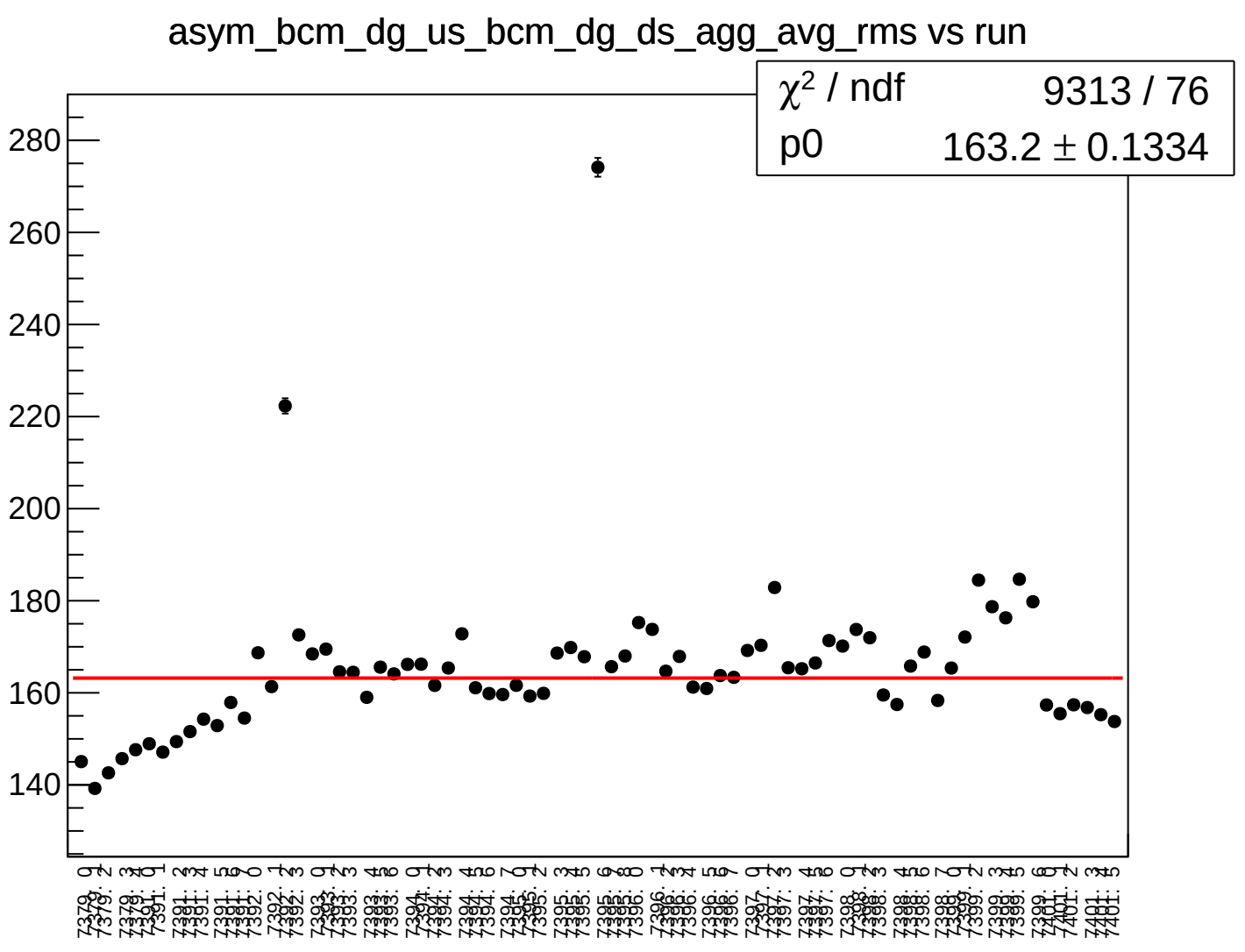

pull1D
Entries 77
Mean −0.004427
Std Dev 0.5716
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

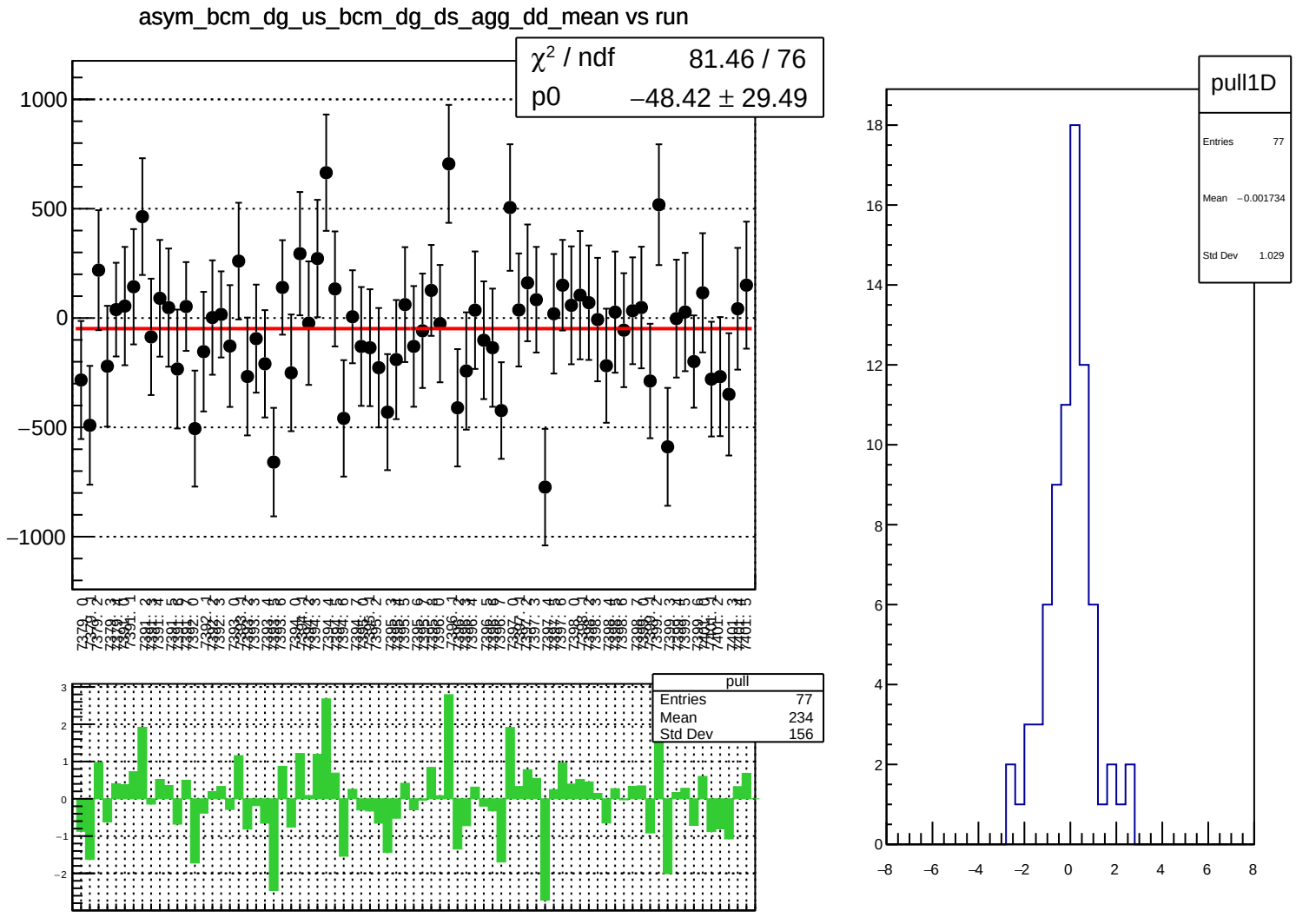

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 9651 / 76
p0 160.2 ± 0.131
280
260
240
220
200
180
160
140

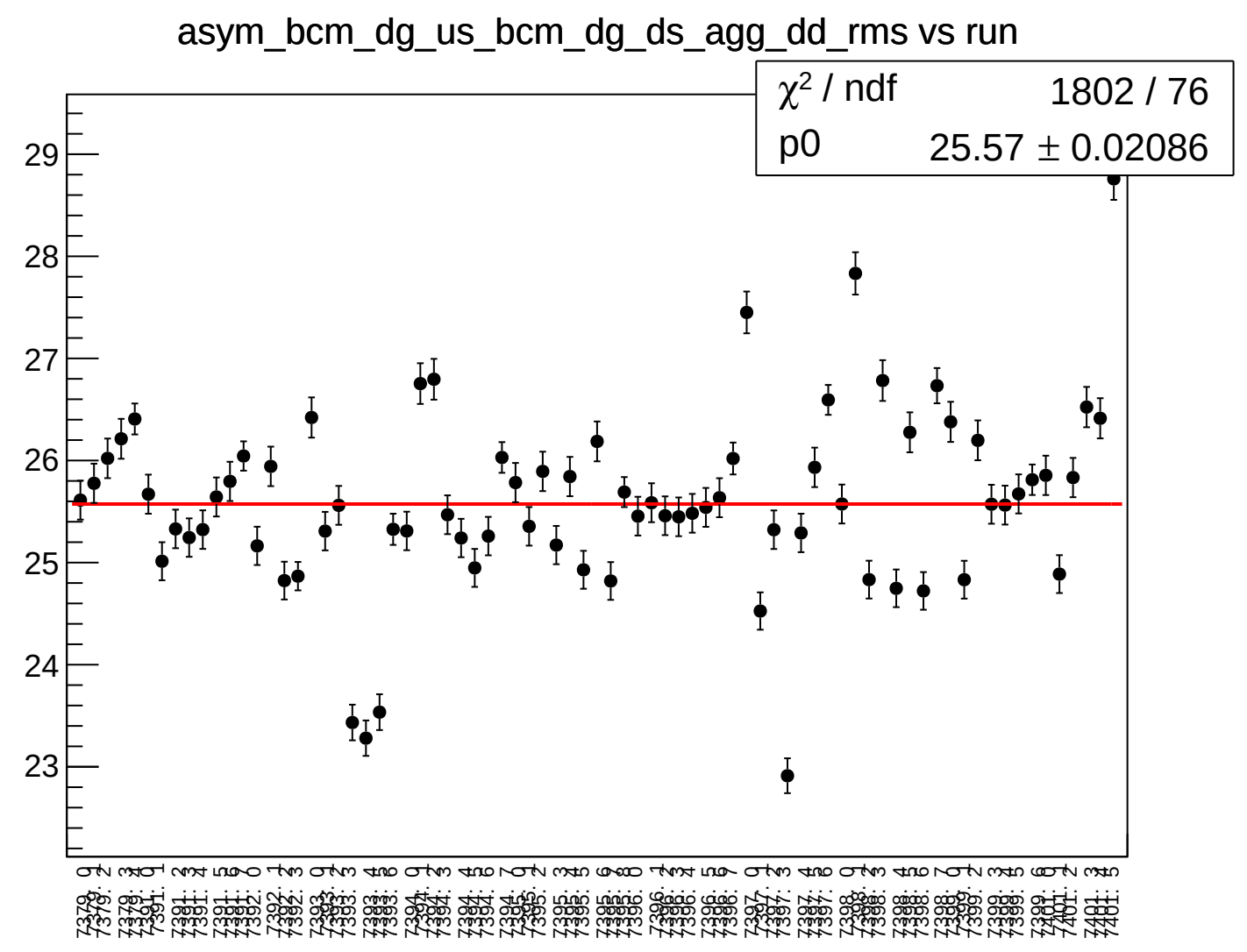

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 79.26 / 76
p0 38.52 ± 20.53
pull
Entries 77
Mean 479.3
Std Dev 448.1
pull1D
Entries 77
Mean −0.006173
Std Dev 1.015

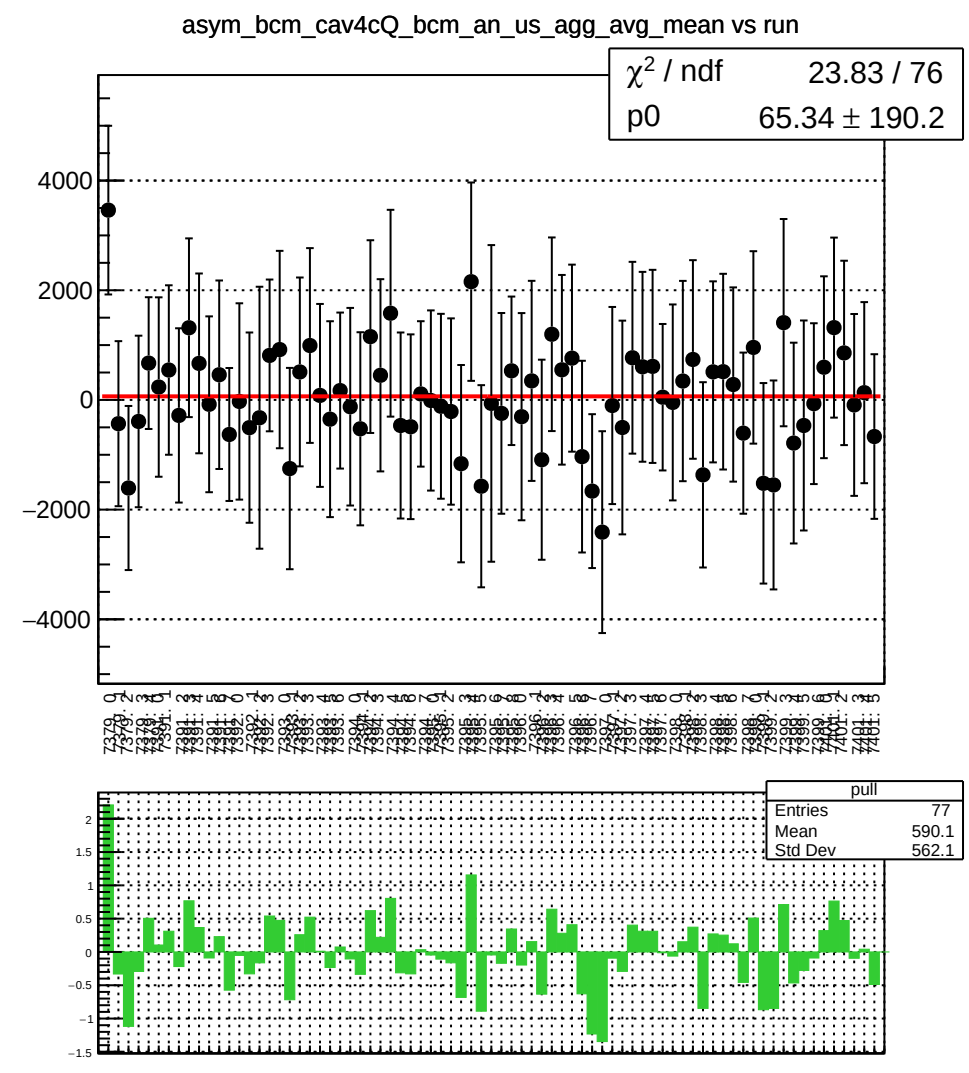

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ^2 / ndf 1411 / 76
p0 17.81 ± 0.01452
19.5
19
18.5
18
17.5
17
16.5

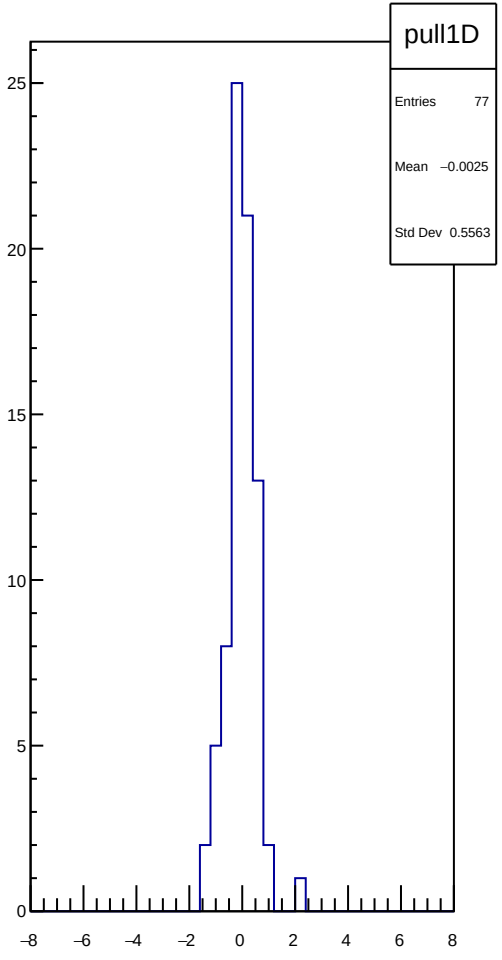

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 27.1 / 76
p0 14.64 ± 188.7
4000
2000
0
−2000
−4000
pull
Entries 77
Mean 472.6
Std Dev 437.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 77
Mean −0.005824
Std Dev 0.5932
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

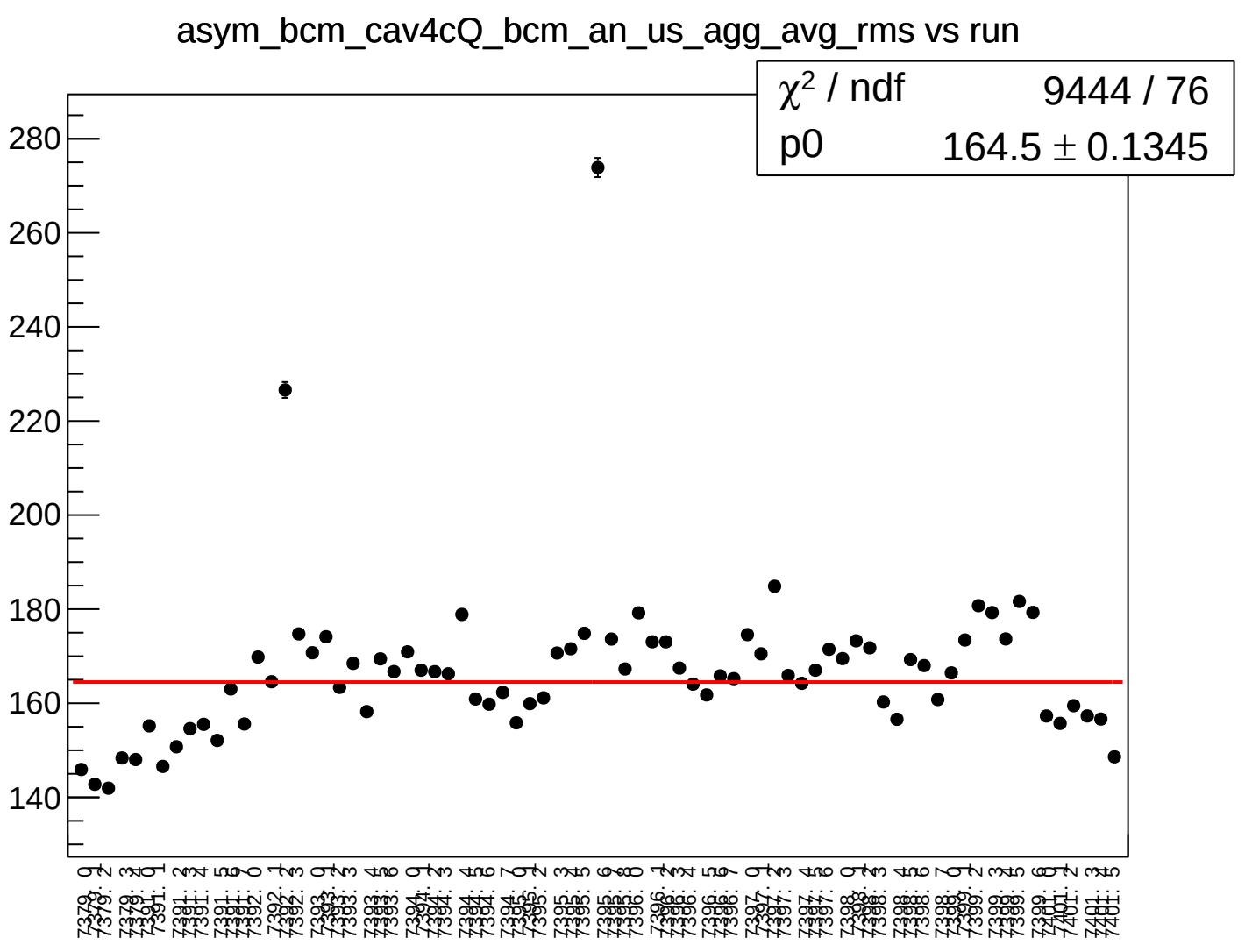

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 9313 / 76
p0 163.2 ± 0.1334
280
260
240
220
200
180
160
140

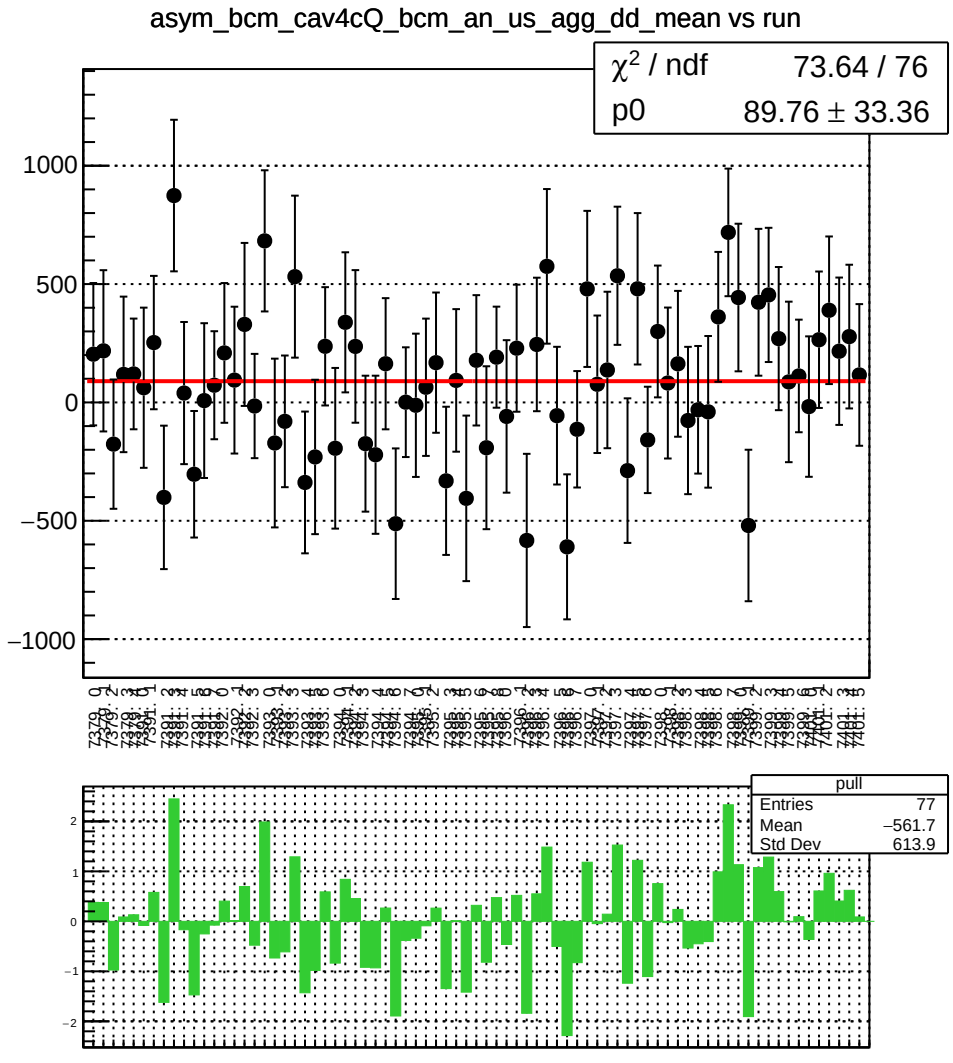

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 81.46 / 76
p0 −48.42 ± 29.49
1000
500
0
−500
−1000
pull
Entries 77
Mean 234
Std Dev 156
pull1D
Entries 77
Mean −0.001734
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

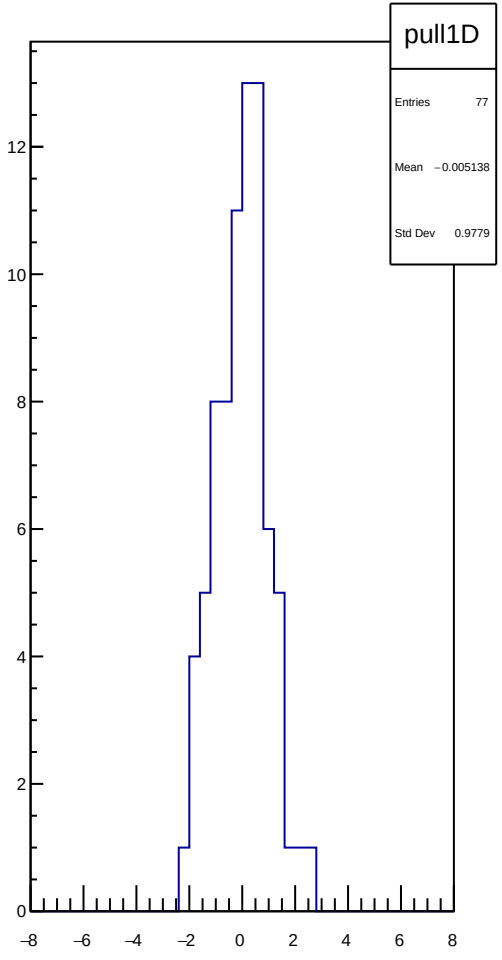

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1802 / 76
p0 25.57 ± 0.02086
29
28
27
26
25
24
23

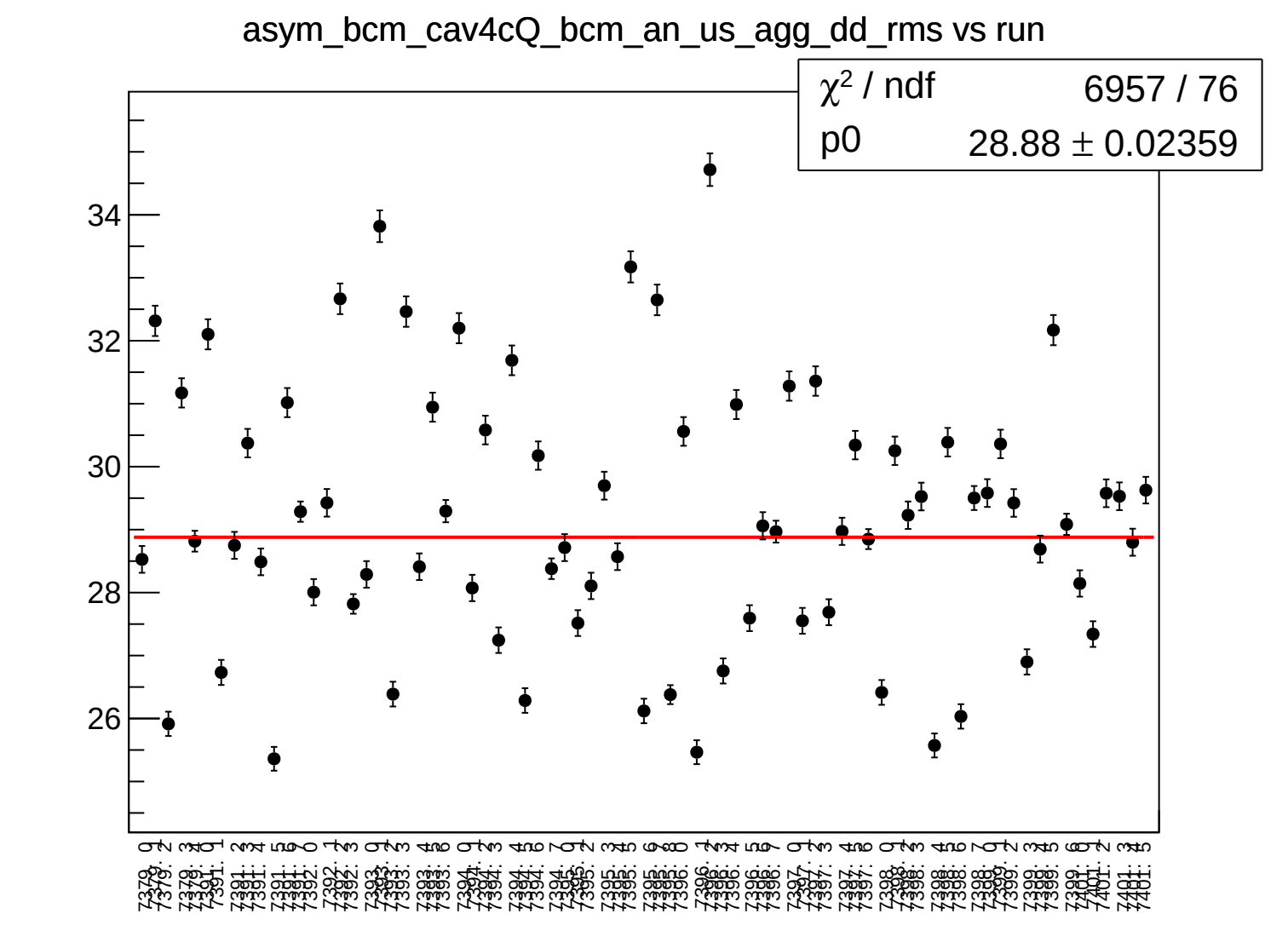

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 23.83 / 76
p0 65.34 ± 190.2
4000
2000
0
−2000
−4000
pull
Entries 77
Mean 590.1
Std Dev 562.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

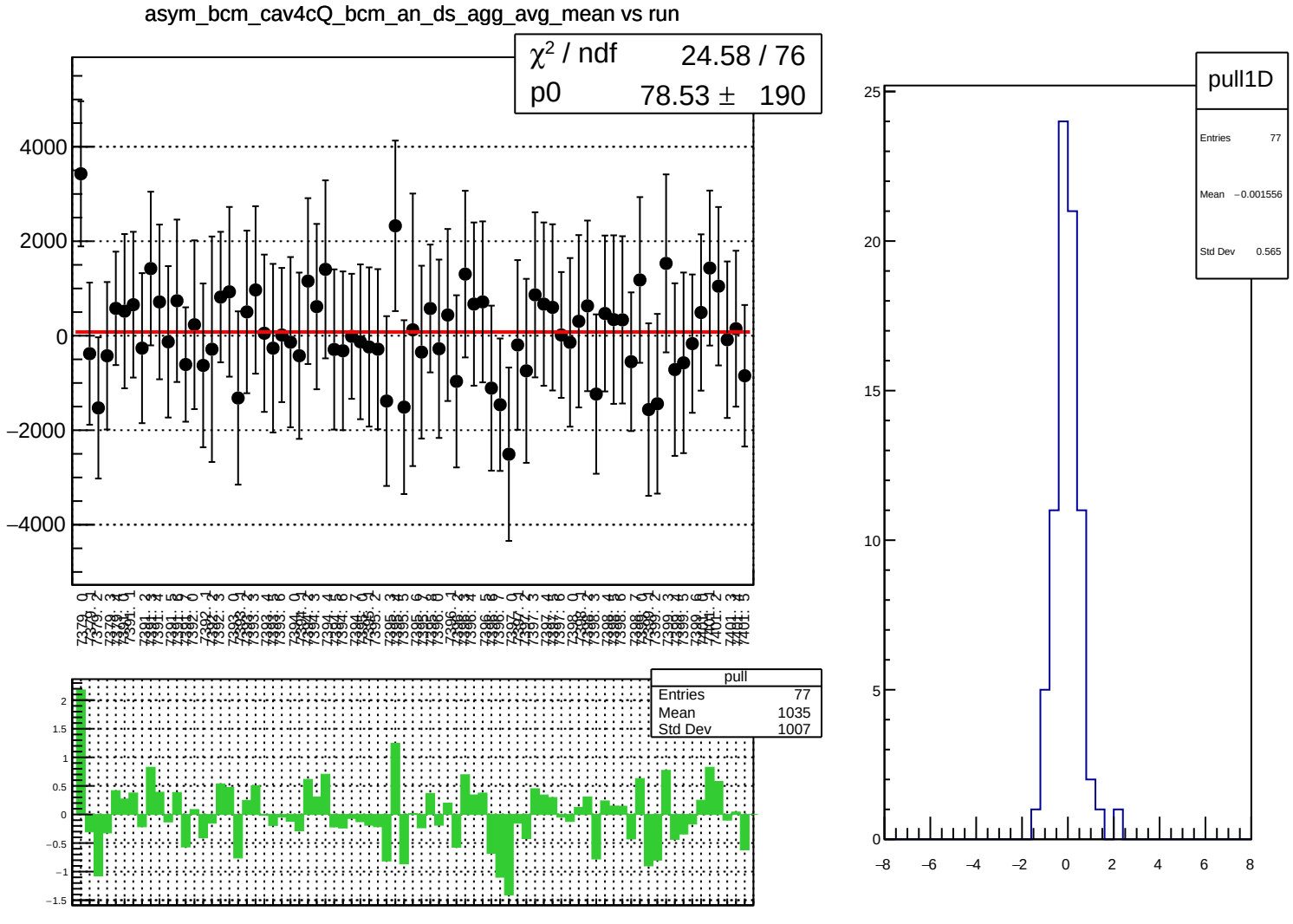

pull1D
Entries 77
Mean −0.0025
Std Dev 0.5563
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

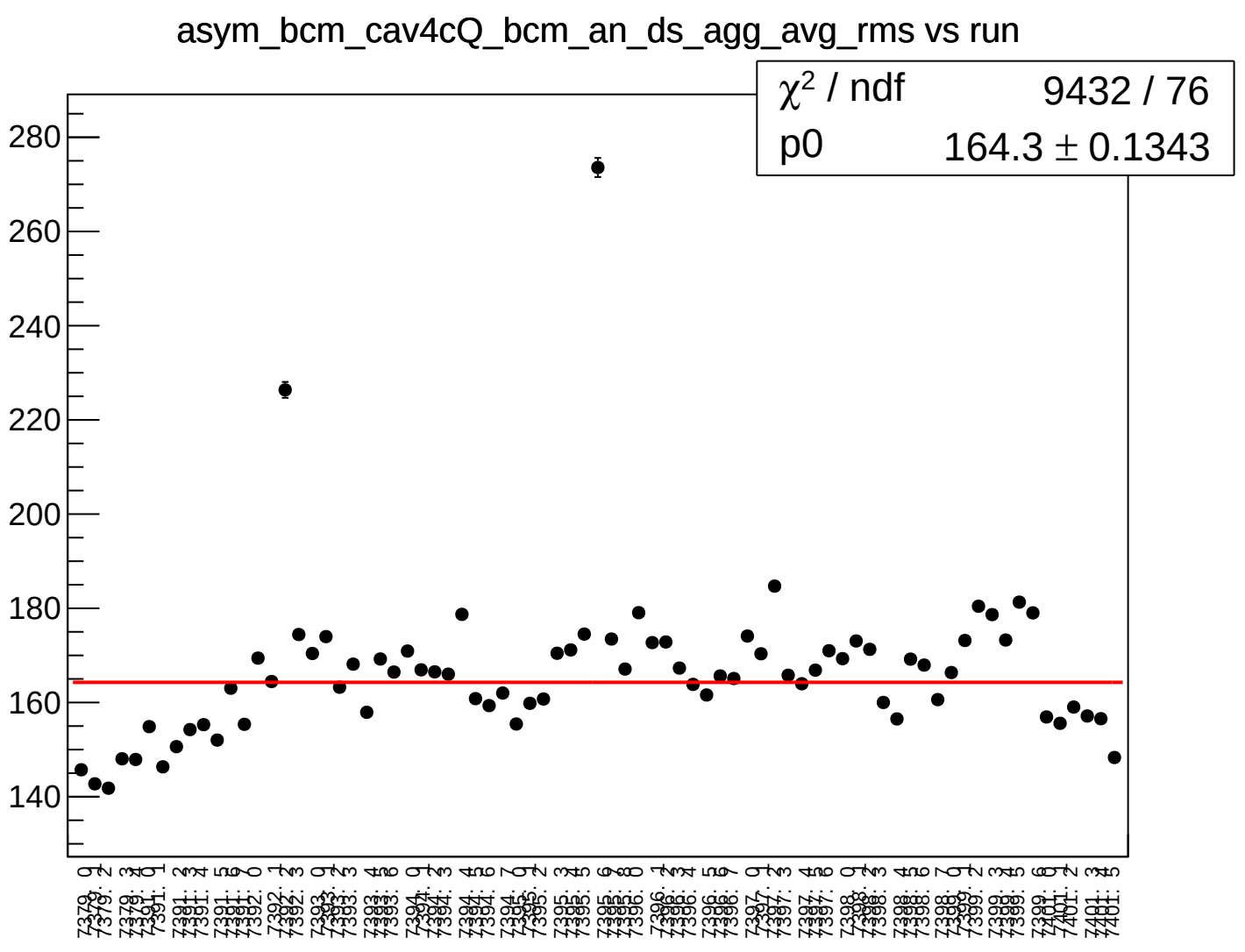

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 9444 / 76
p0 164.5 ± 0.1345
280
260
240
220
200
180
160
140

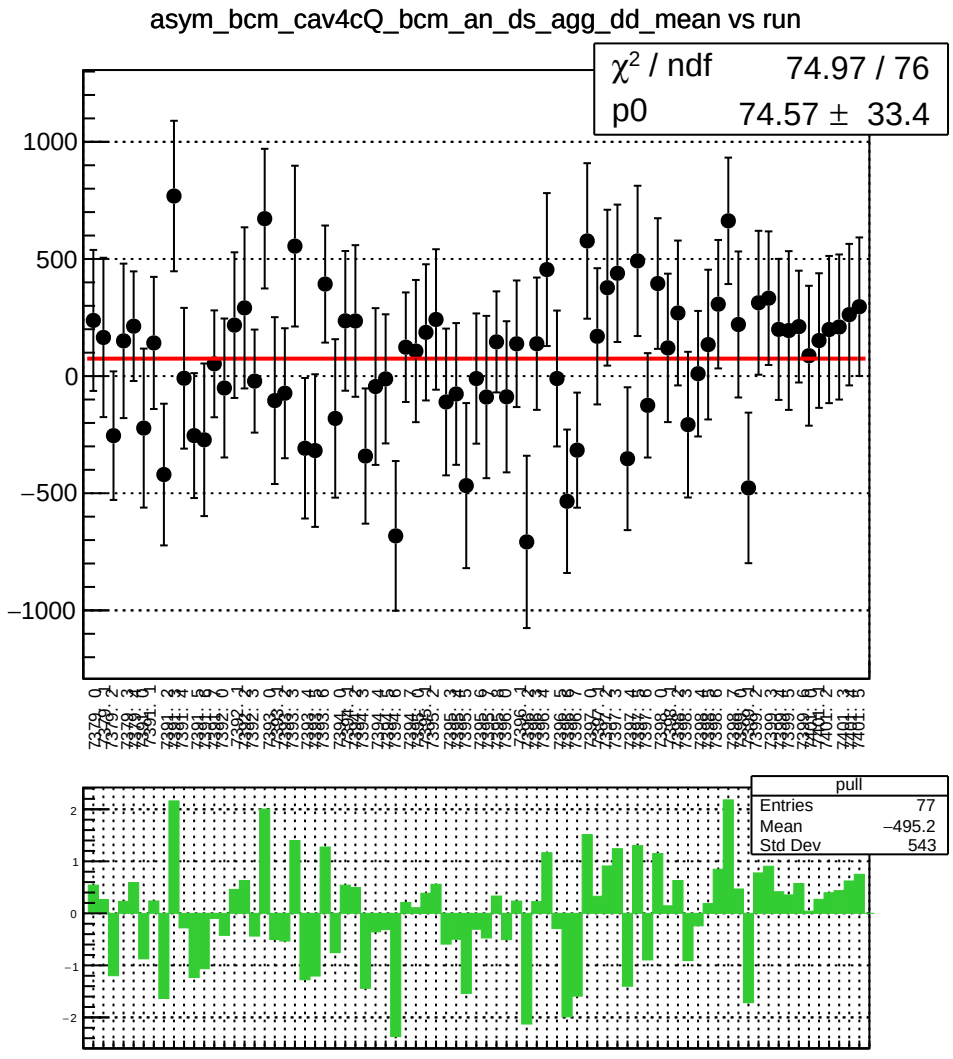

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 73.64 / 76
p0 89.76 ± 33.36
1000
500
0
−500
−1000
pull
Entries 77
Mean −561.7
Std Dev 613.9
2
1
0
−1
−2

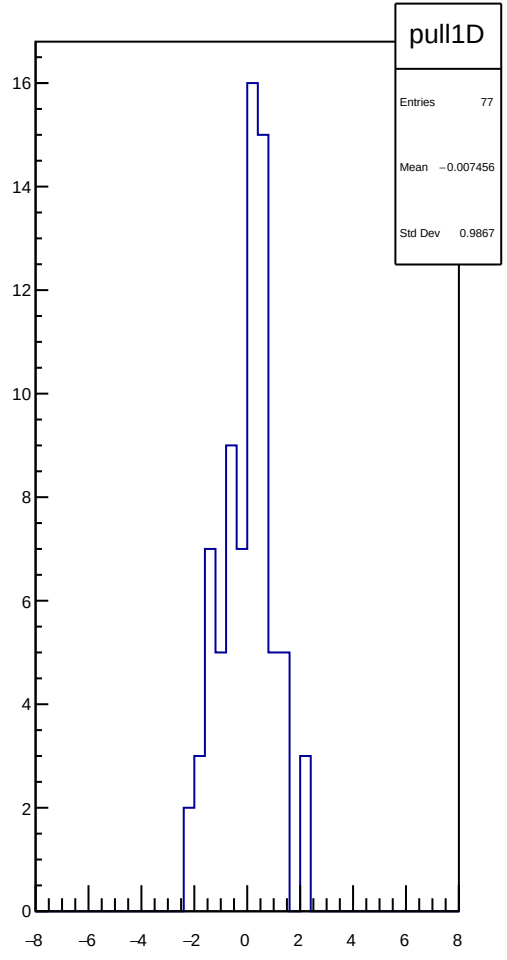

pull1D
Entries 77
Mean −0.005138
Std Dev 0.9779
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

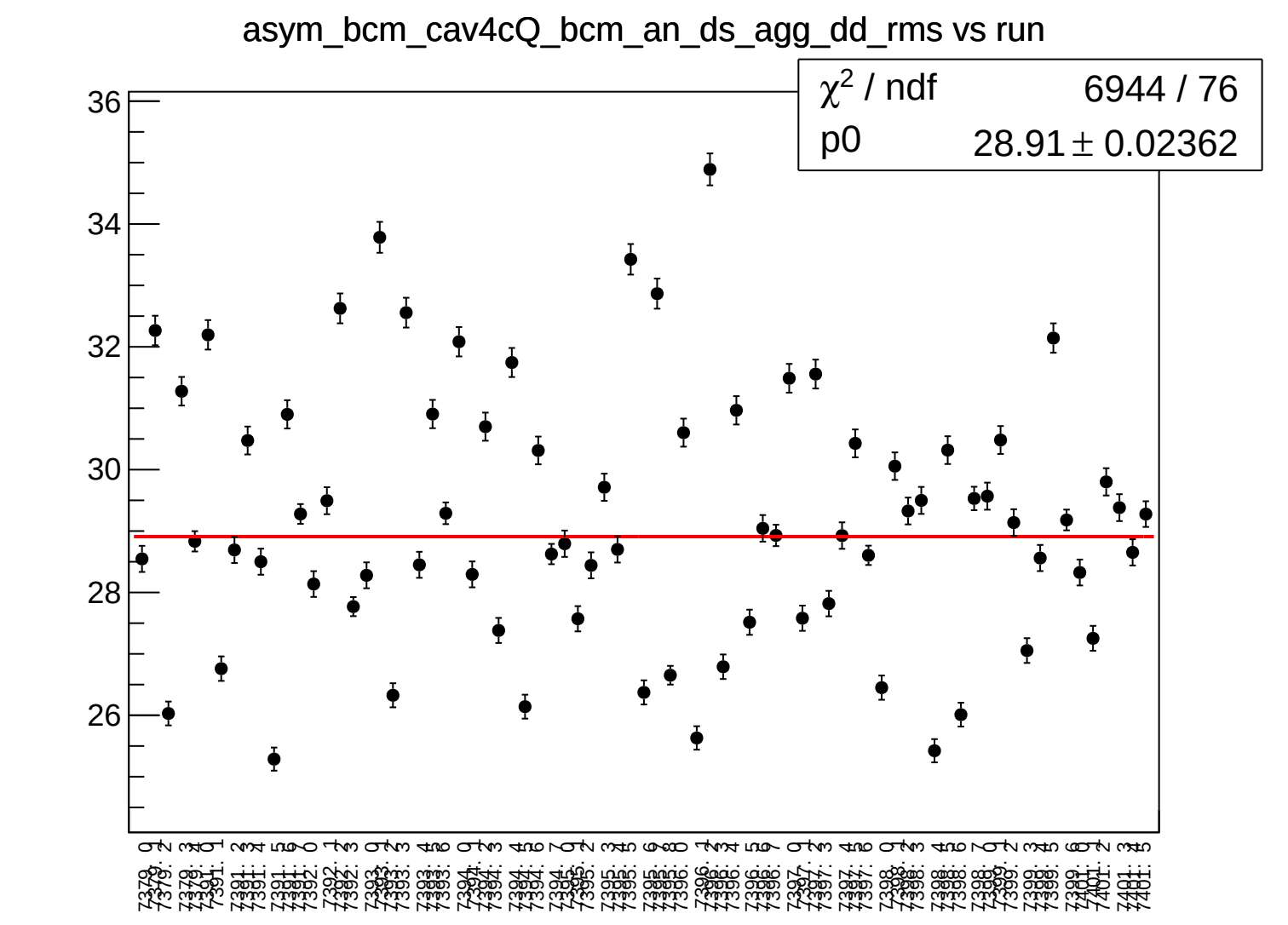

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 6957 / 76
p0 28.88 ± 0.02359
34
32
30
28
26

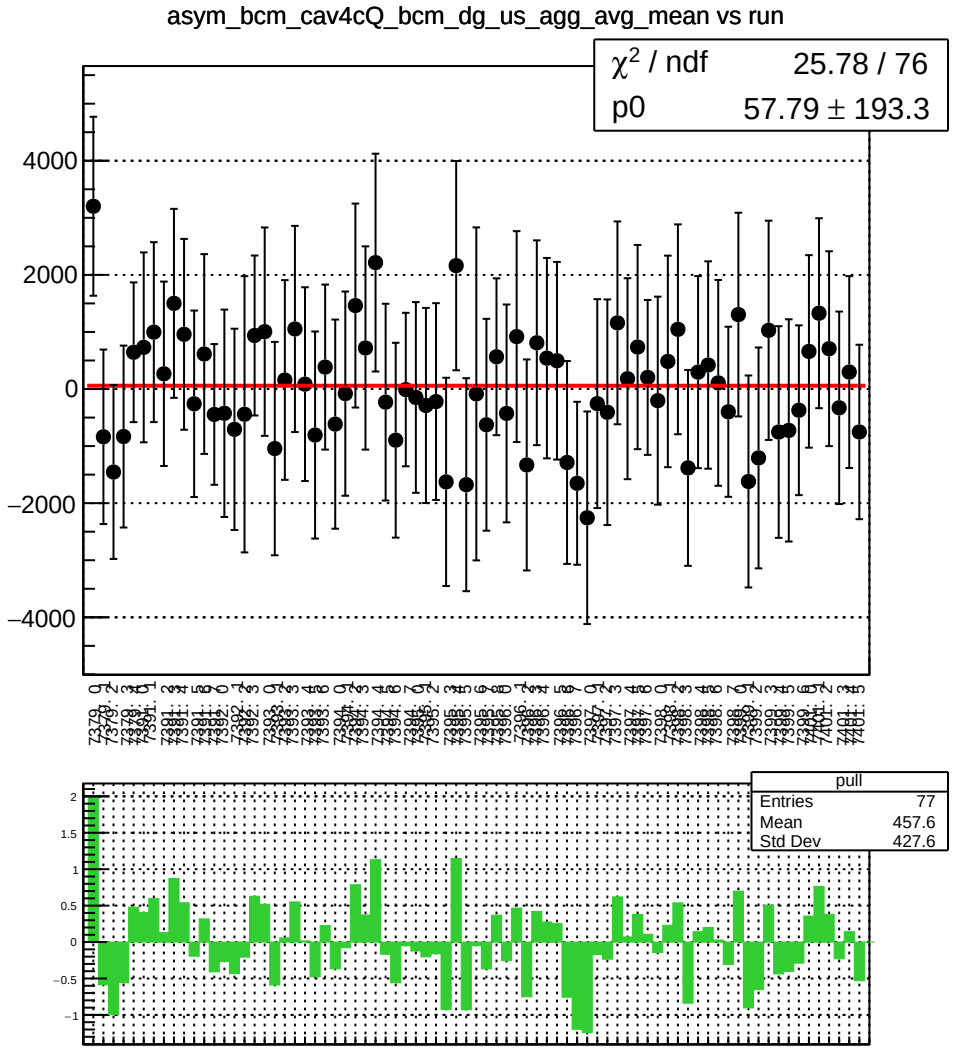

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.58 / 76
p0 78.53 ± 190
4000
2000
0
−2000
−4000
pull
Entries 77
Mean 1035
Std Dev 1007
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 77
Mean −0.001556
Std Dev 0.565
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

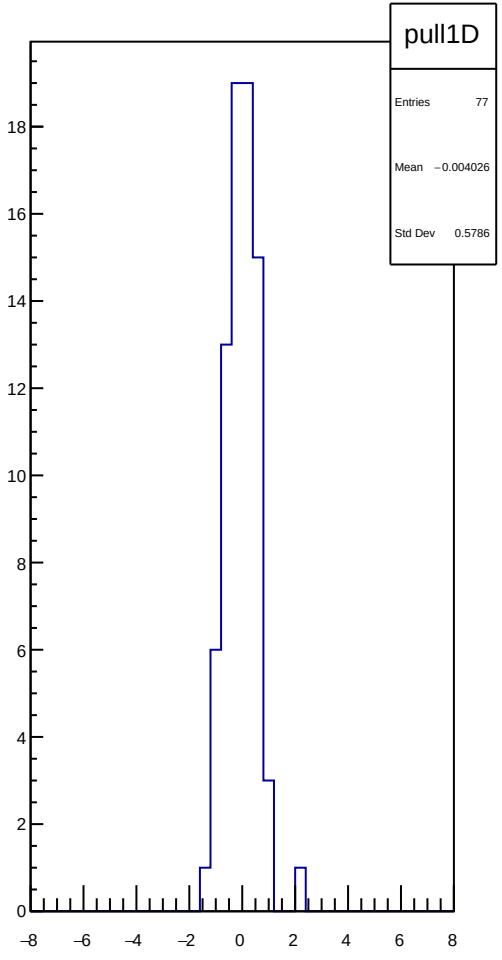

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9432 / 76
p0 164.3 ± 0.1343
280
260
240
220
200
180
160
140

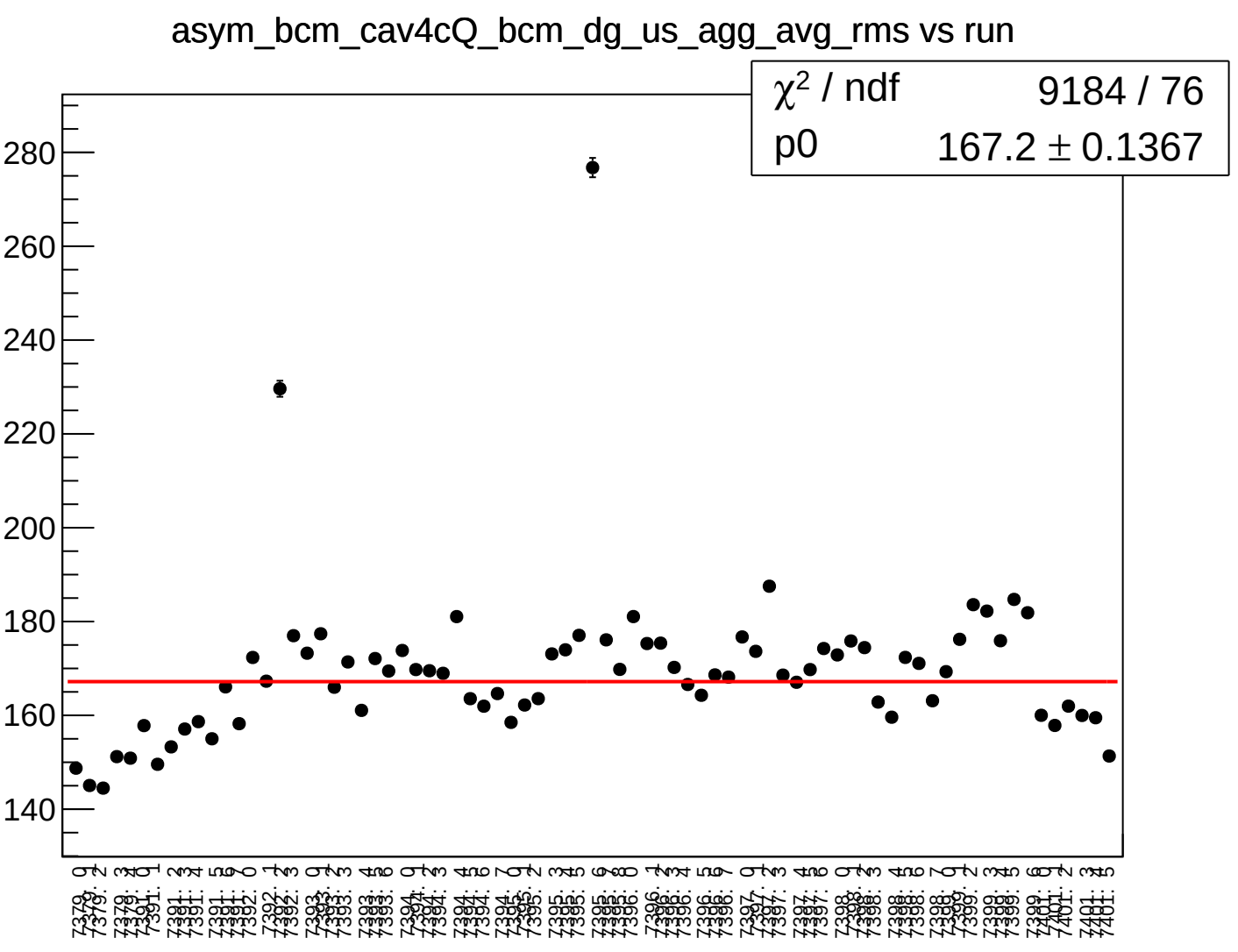

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 74.97 / 76
p0 74.57 ± 33.4
1000
500
0
−500
−1000
pull
Entries 77
Mean −495.2
Std Dev 543
2
1
0
−1
−2

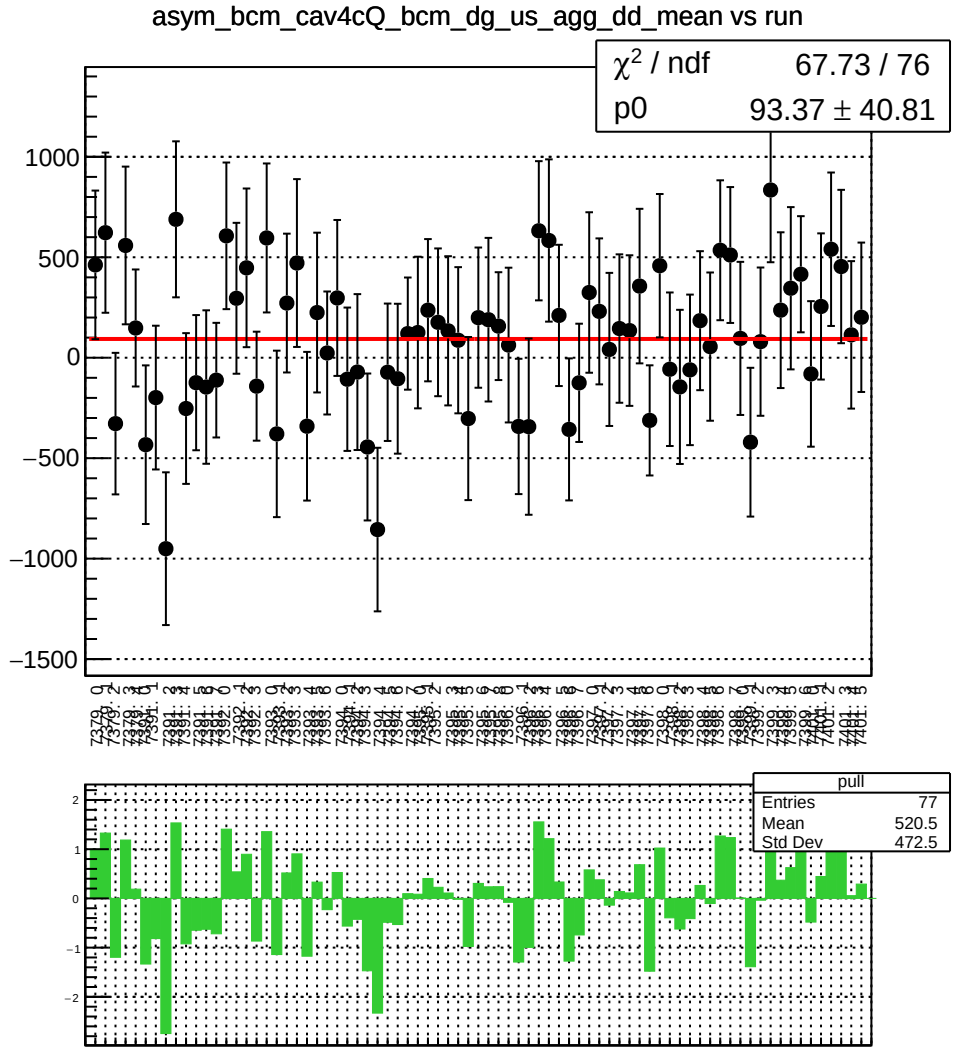

pull1D
Entries 77
Mean −0.007456
Std Dev 0.9867
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

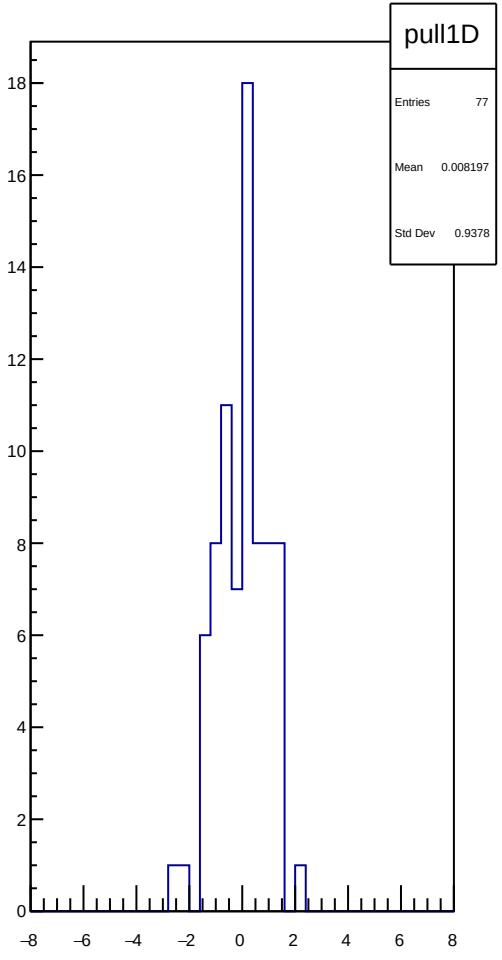

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 6944 / 76
p0 28.91 ± 0.02362
36
34
32
30
28
26

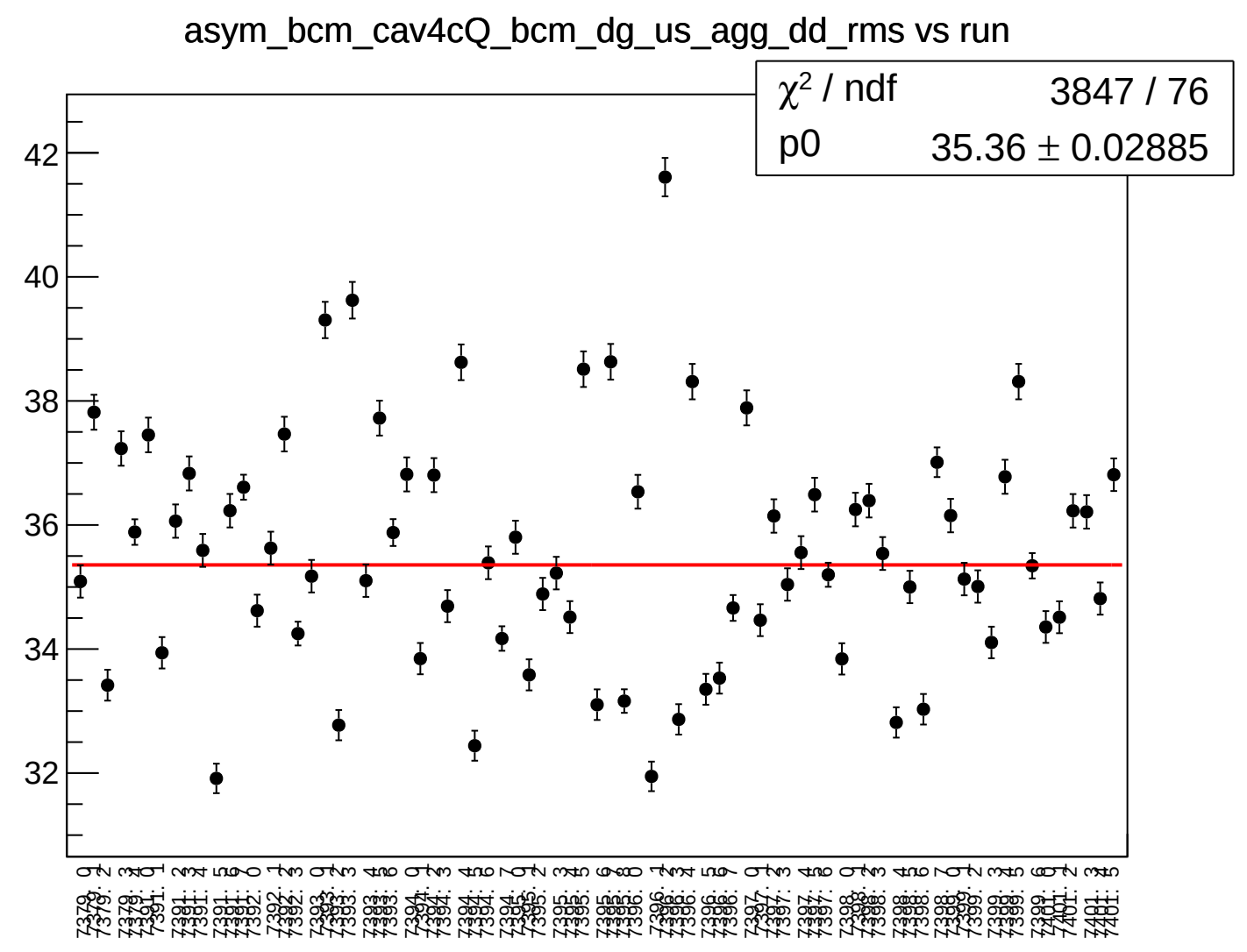

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 25.78 / 76
p0 57.79 ± 193.3
4000
2000
0
−2000
−4000
pull
Entries 77
Mean 457.6
Std Dev 427.6
2
1.5
1
0.5
0
−0.5
−1

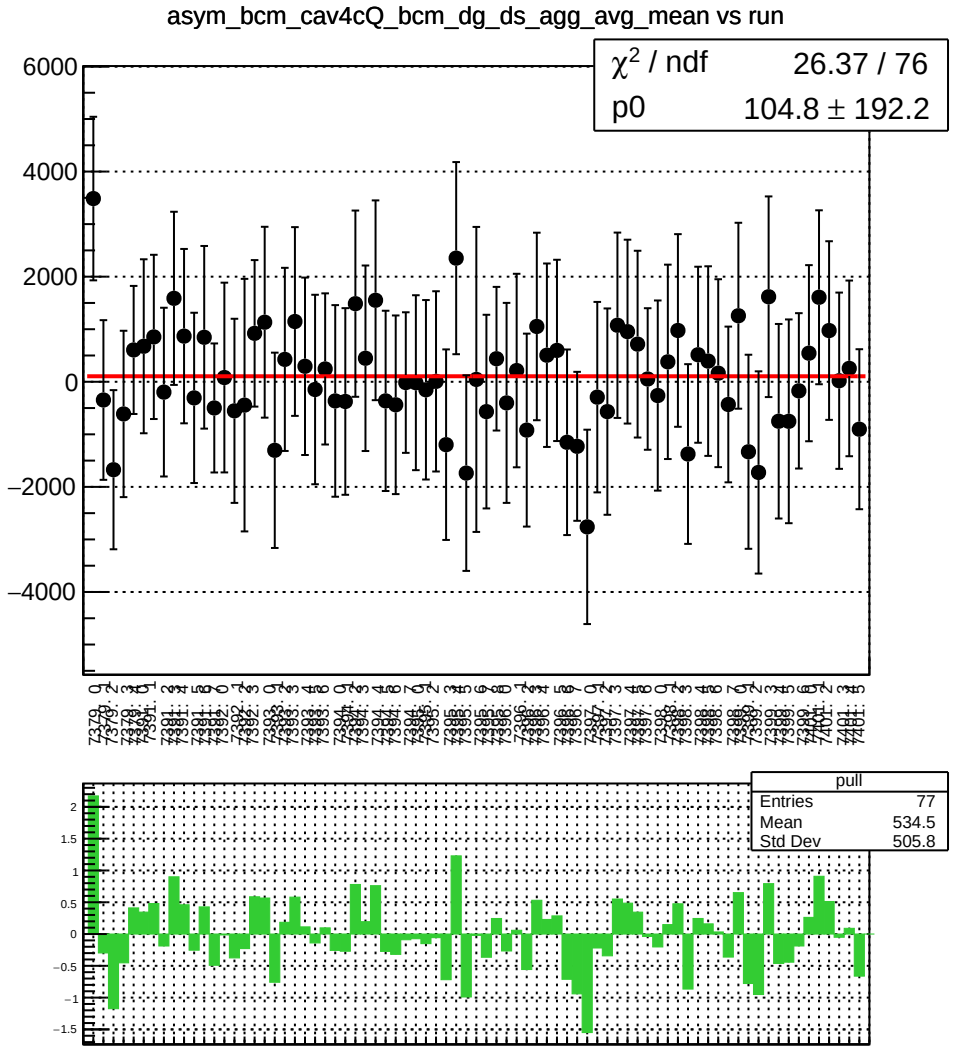

pull1D
Entries 77
Mean −0.004026
Std Dev 0.5786
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

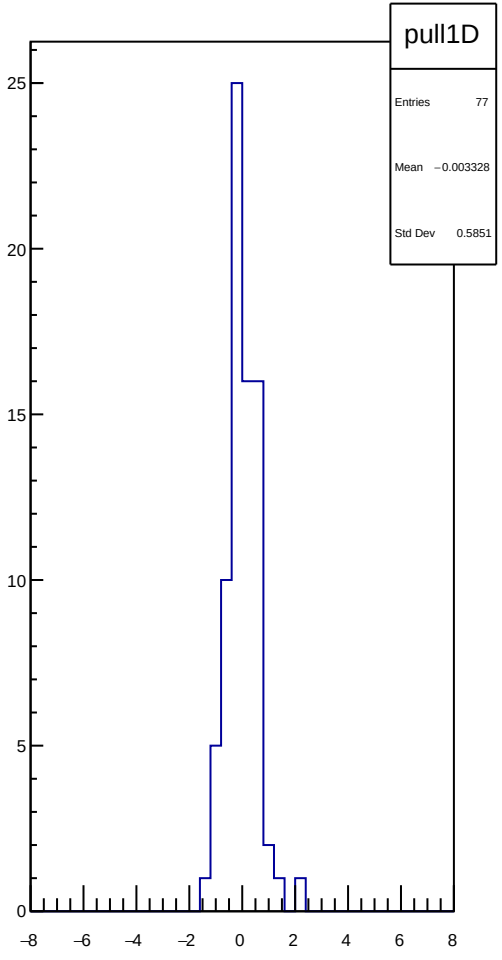

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 9184 / 76
p0 167.2 ± 0.1367
280
260
240
220
200
180
160
140

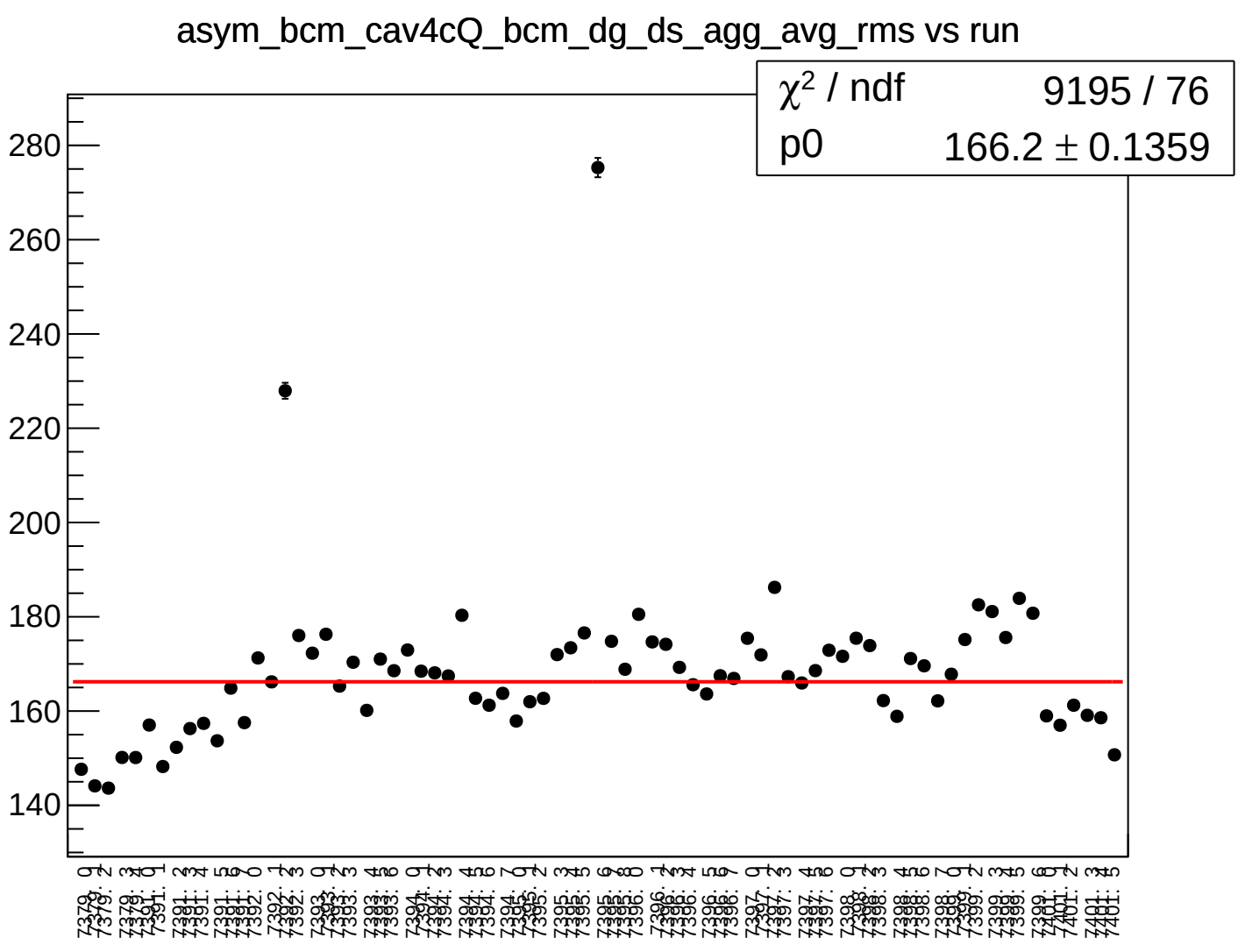

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 67.73 / 76
p0 93.37 ± 40.81
1000
500
0
−500
−1000
−1500
pull
Entries 77
Mean 520.5
Std Dev 472.5
2
1
0
−1
−2

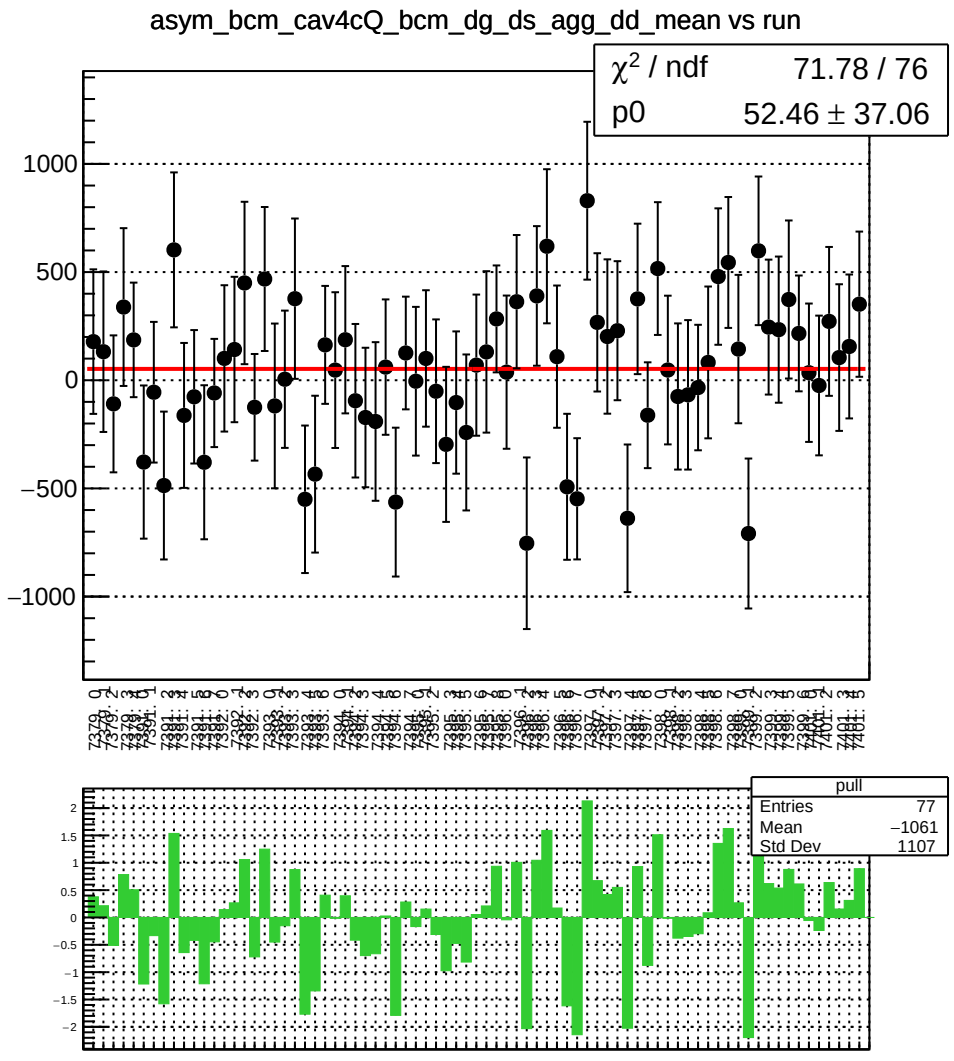

pull1D
Entries 77
Mean 0.008197
Std Dev 0.9378
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

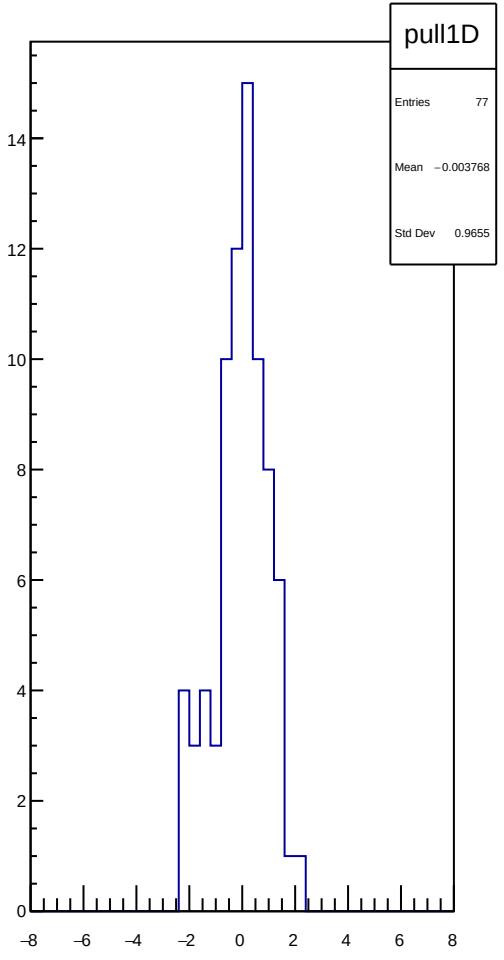

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3847 / 76
p0 35.36 ± 0.02885
42
40
38
36
34
32

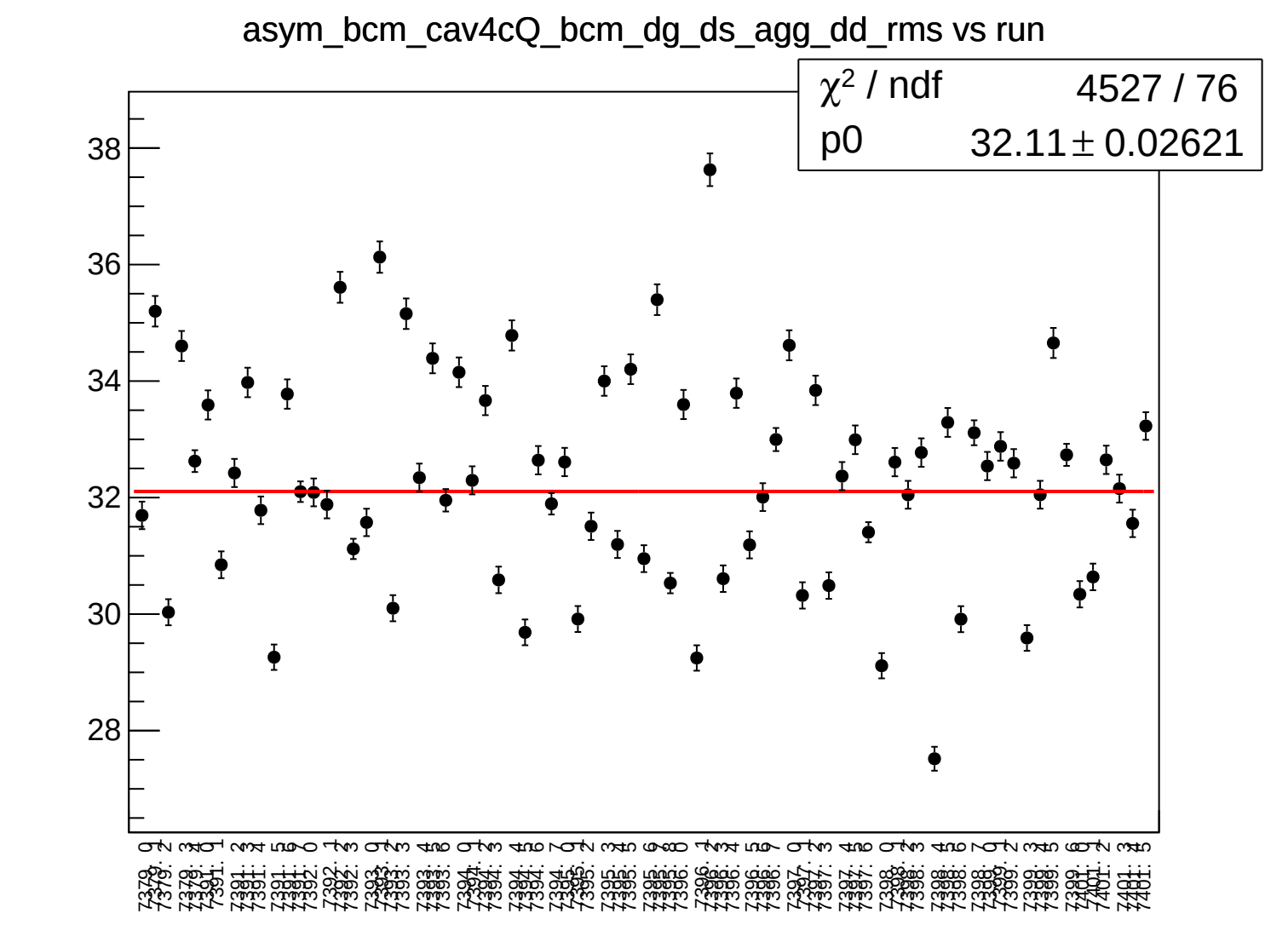

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 26.37 / 76
p0 104.8 ± 192.2
pull
Entries 77
Mean 534.5
Std Dev 505.8

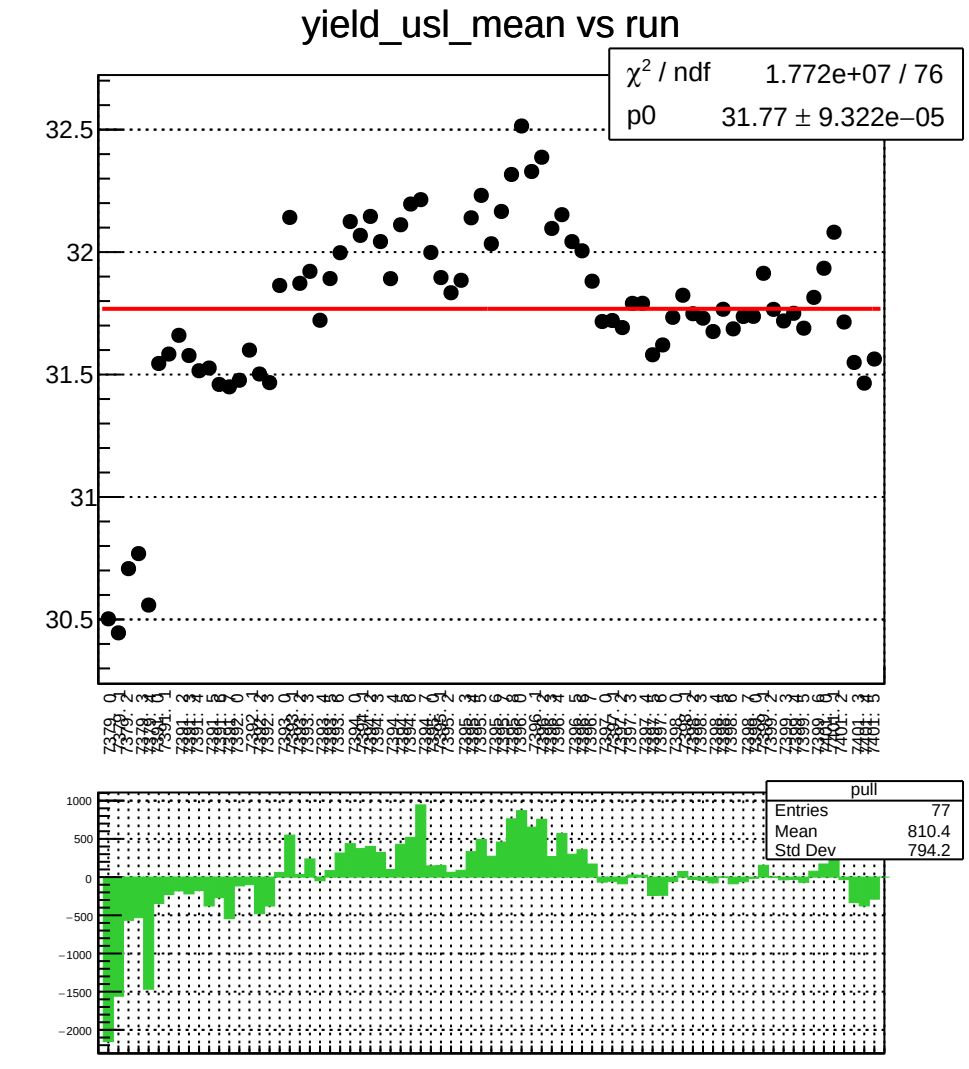

pull1D
Entries 77
Mean −0.003328
Std Dev 0.5851

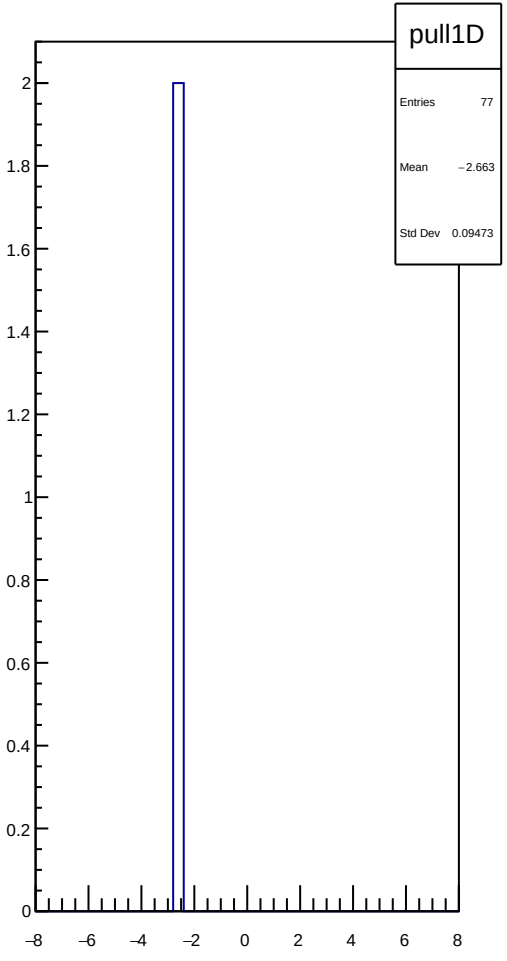

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 9195 / 76
p0 166.2 ± 0.1359
280
260
240
220
200
180
160
140

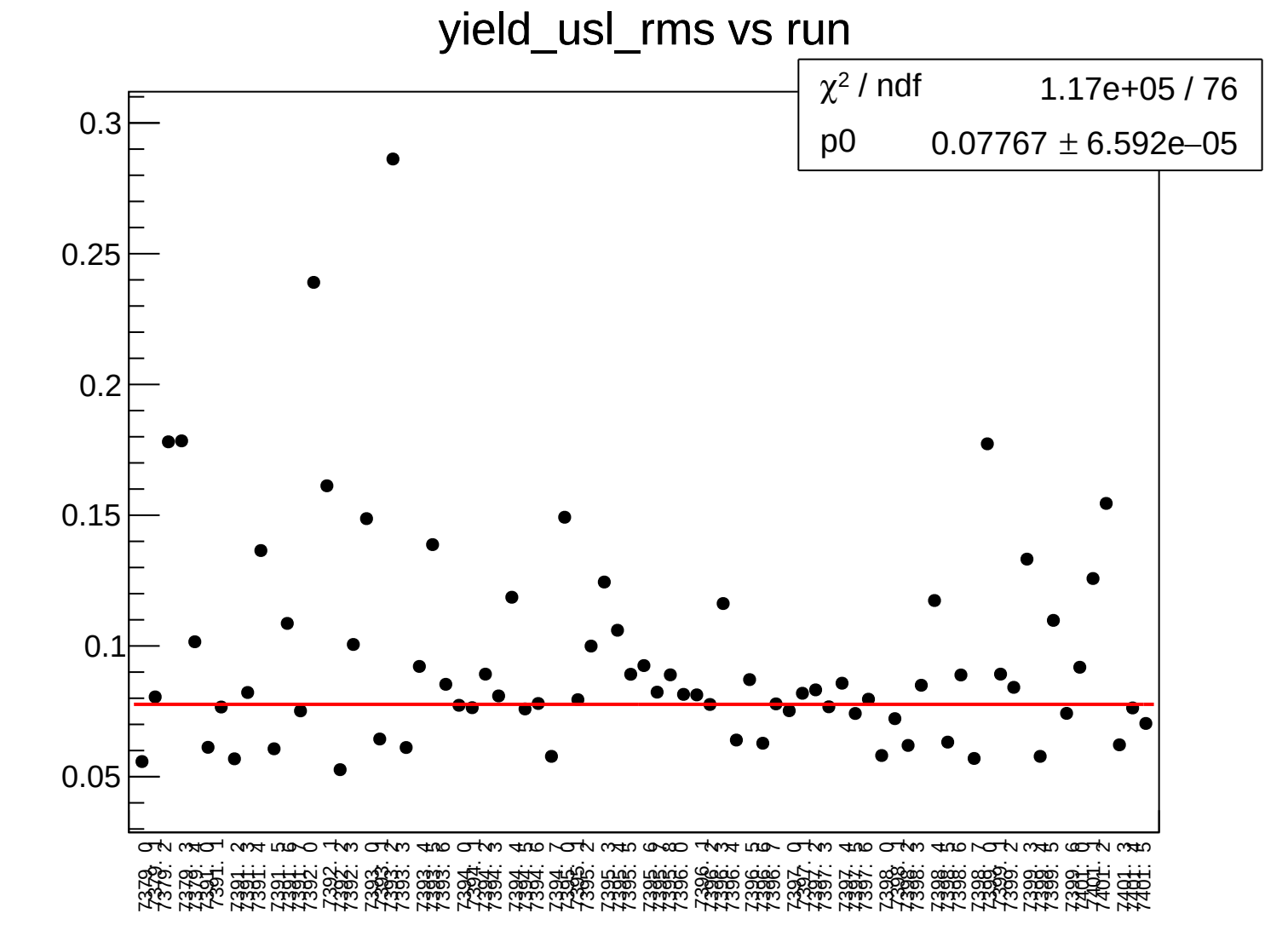

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 71.78 / 76
p0 52.46 ± 37.06
1000
500
0
−500
−1000
pull
Entries 77
Mean −1061
Std Dev 1107
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

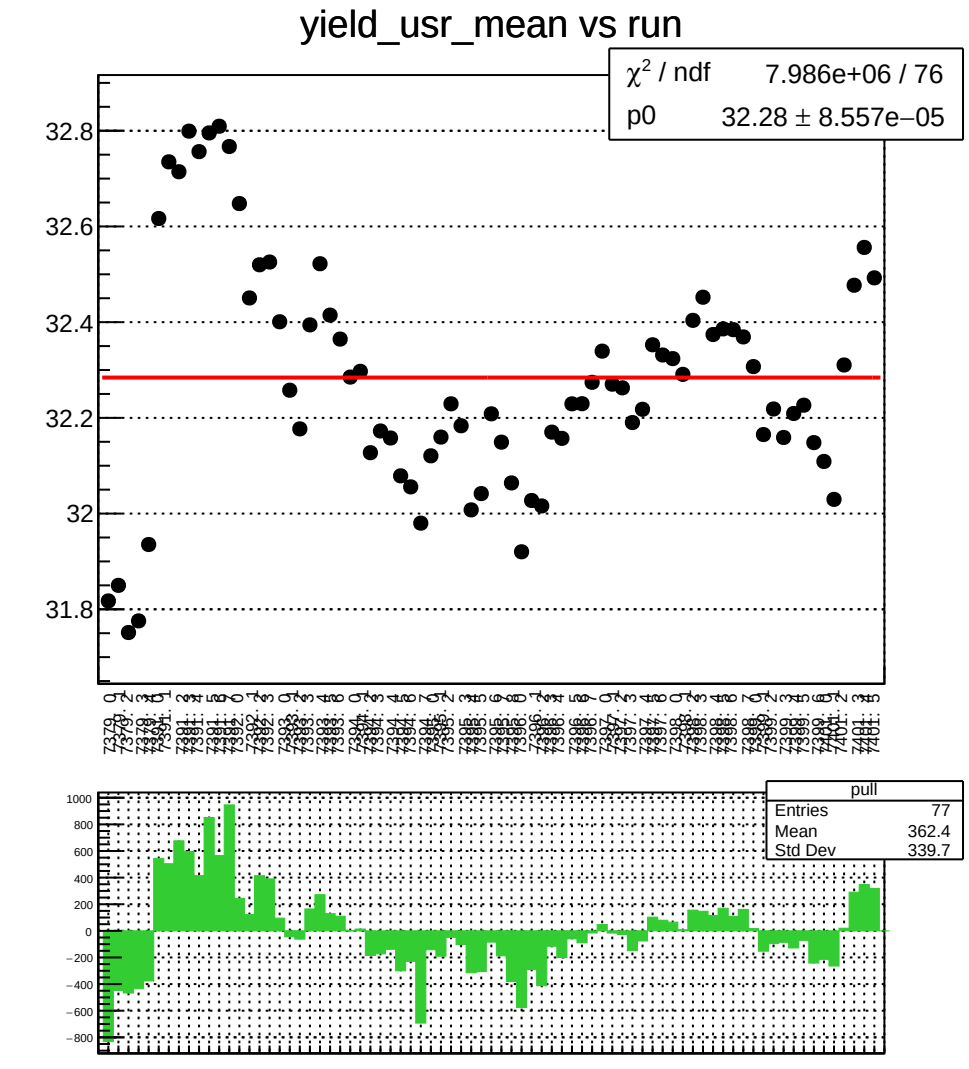

pull1D
Entries 77
Mean −0.003768
Std Dev 0.9655
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

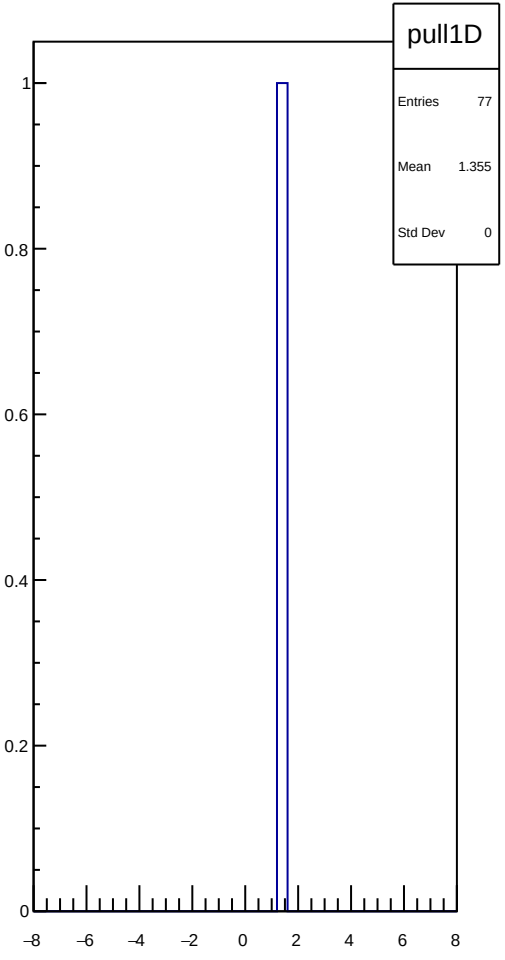

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4527 / 76
p0 32.11 ± 0.02621
38
36
34
32
30
28

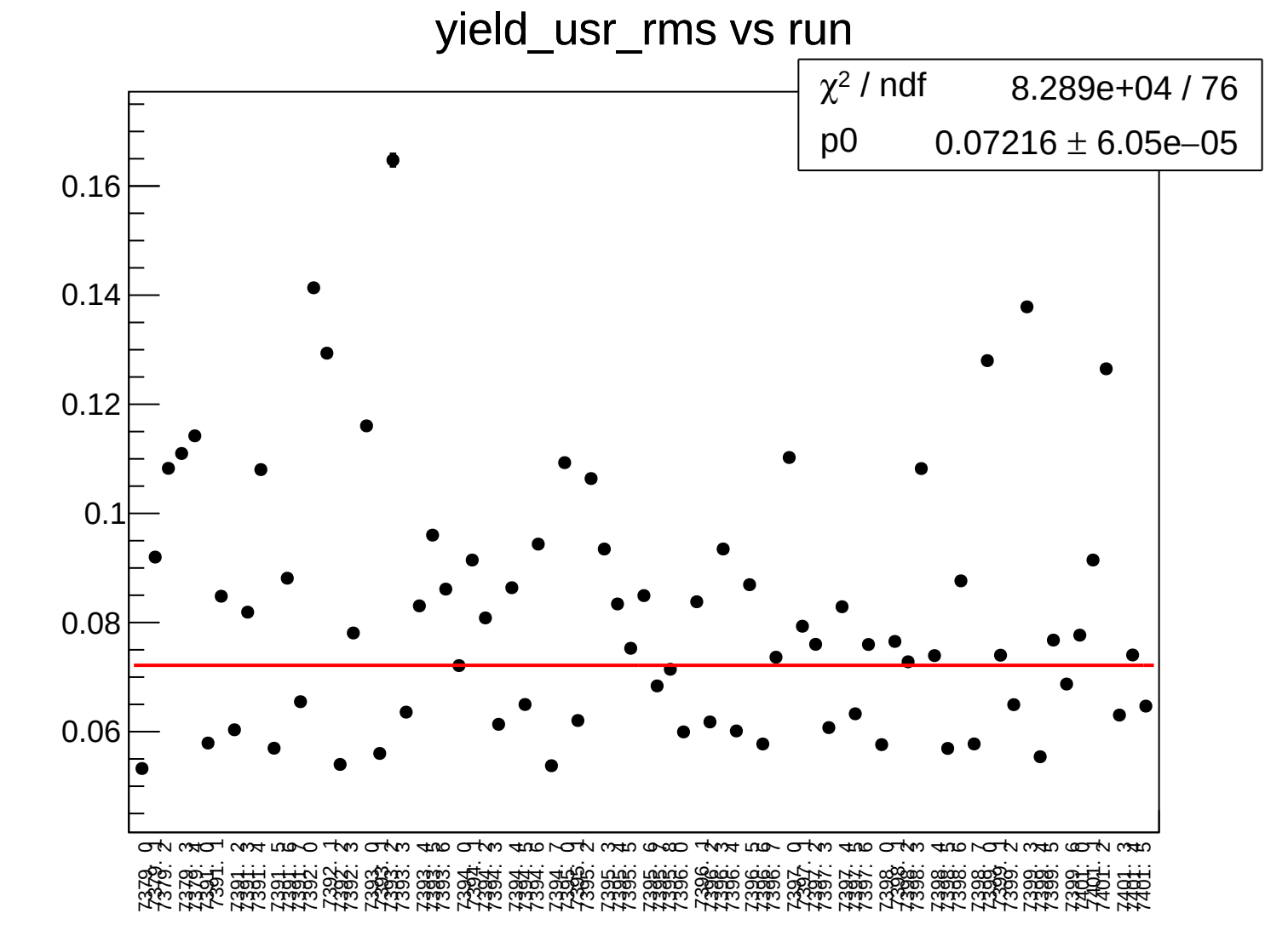

yield_usl_mean vs run
χ² / ndf 1.772e+07 / 76
p0 31.77 ± 9.322e−05
32.5
32
31.5
31
30.5
pull
Entries 77
Mean 810.4
Std Dev 794.2
1000
500
0
−500
−1000
−1500
−2000

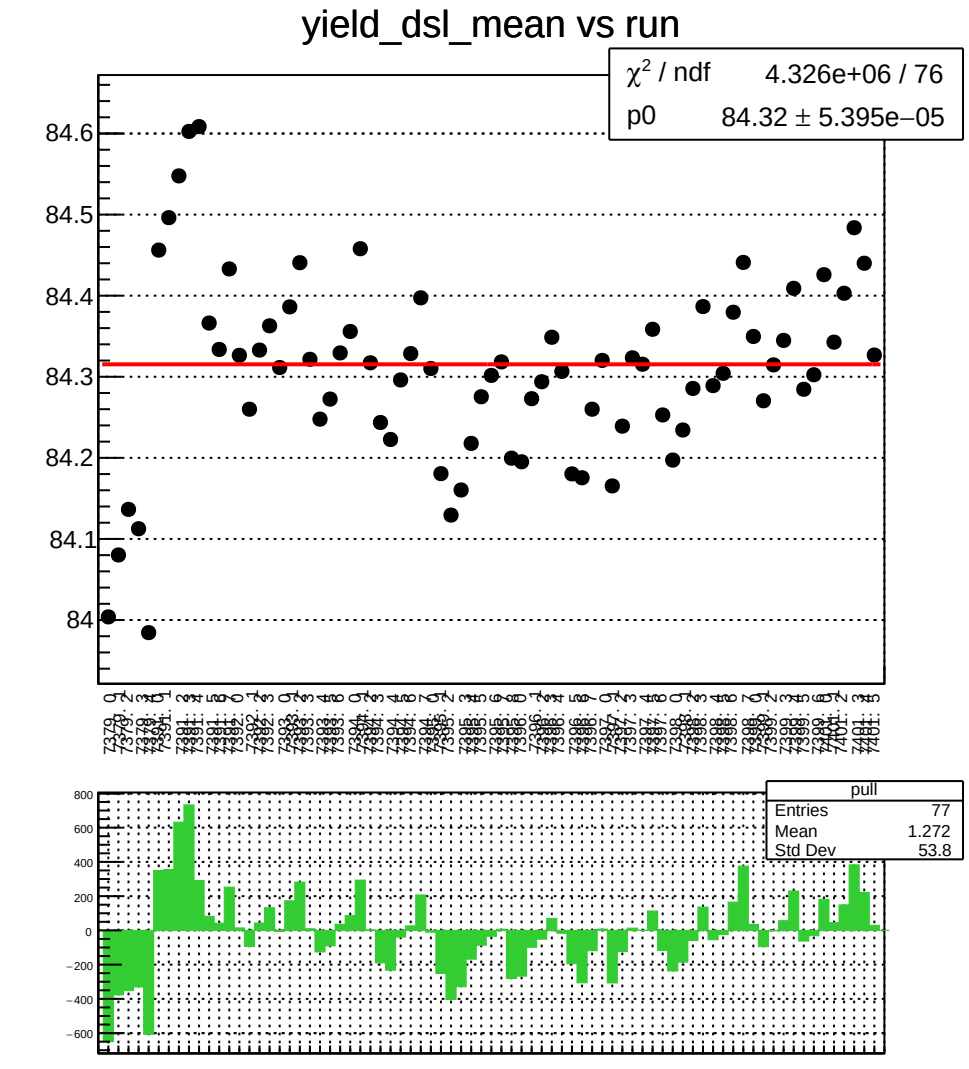

pull1D
Entries 77
Mean −2.663
Std Dev 0.09473
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

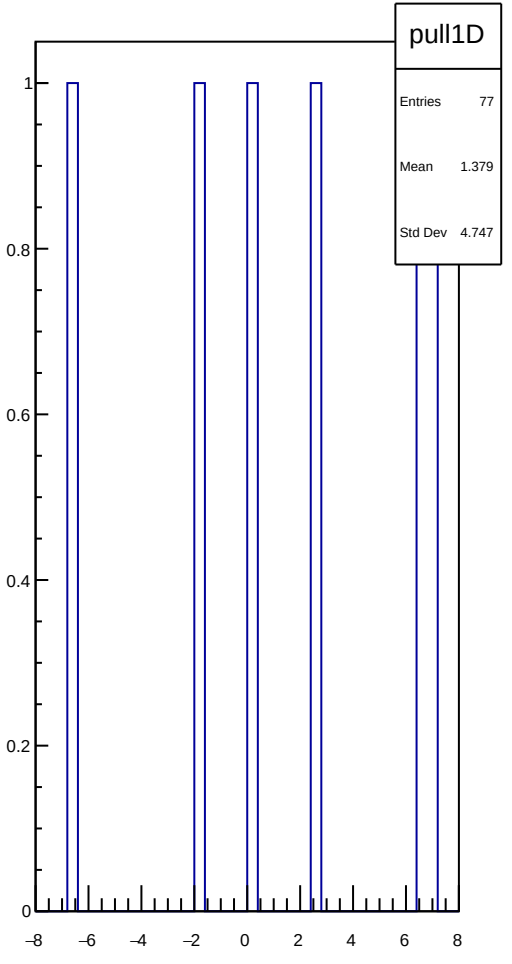

yield_usl_rms vs run
χ² / ndf 1.17e+05 / 76
p0 0.07767 ± 6.592e–05
0.3
0.25
0.2
0.15
0.1
0.05

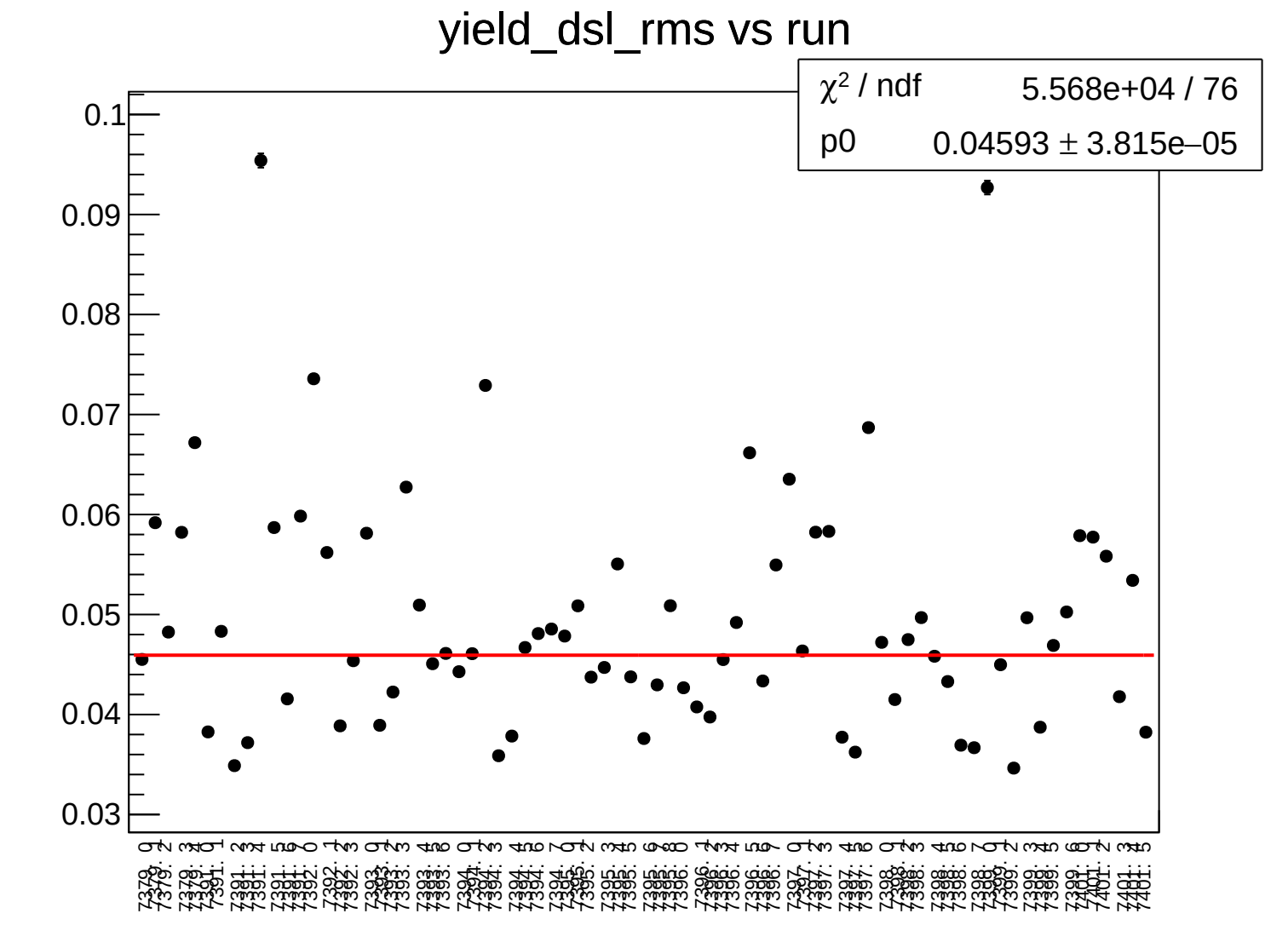

yield_usr_mean vs run
χ² / ndf 7.986e+06 / 76
p0 32.28 ± 8.557e−05
32.8
32.6
32.4
32.2
32
31.8
pull
Entries 77
Mean 362.4
Std Dev 339.7
1000
800
600
400
200
0
−200
−400
−600
−800

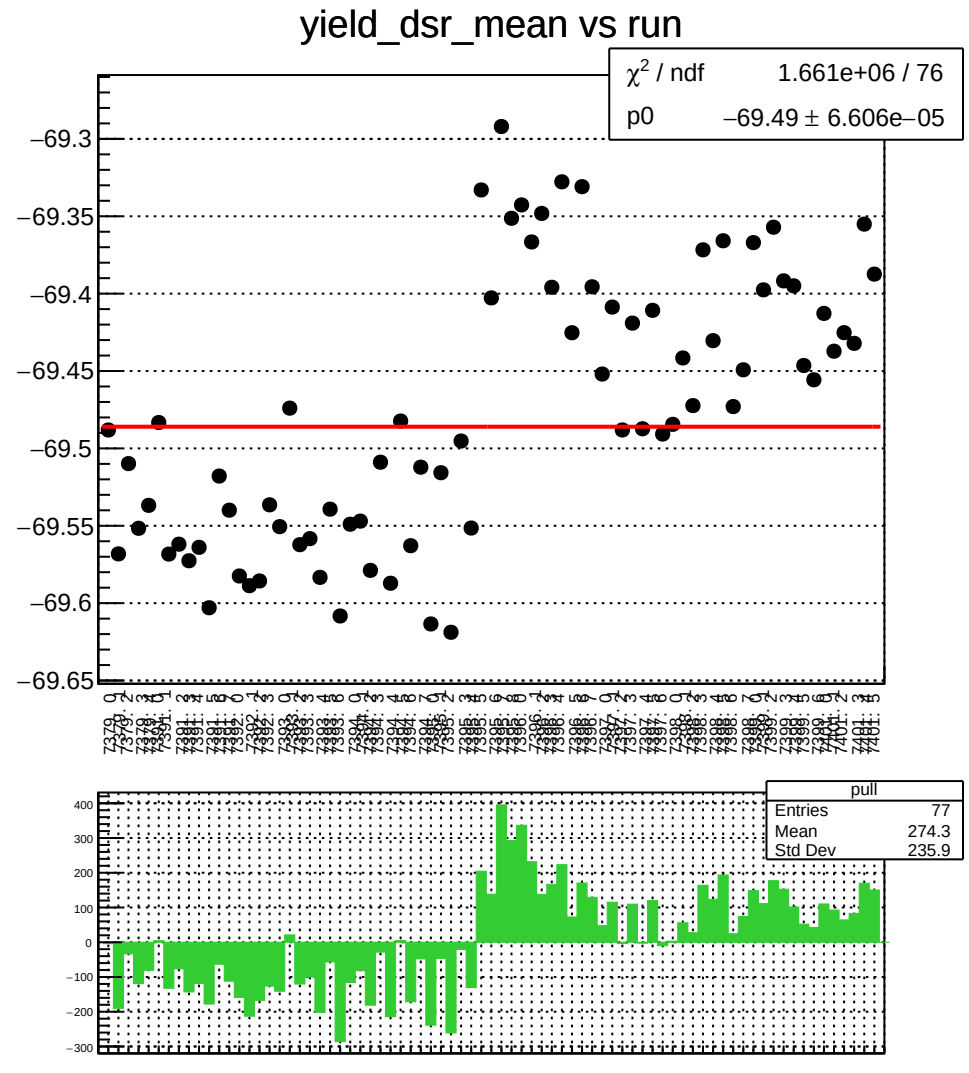

pull1D
Entries 77
Mean 1.355
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

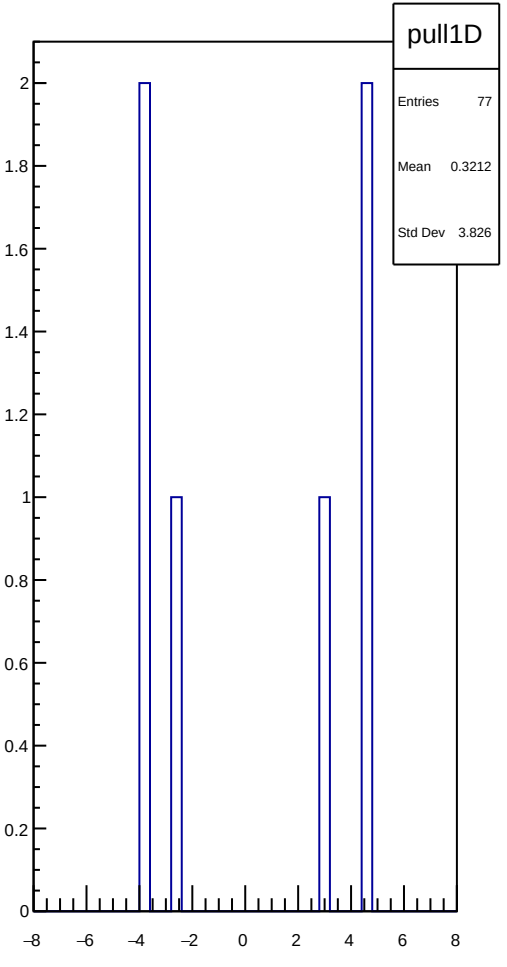

yield_usr_rms vs run
χ² / ndf 8.289e+04 / 76
p0 0.07216 ± 6.05e−05
0.16
0.14
0.12
0.1
0.08
0.06

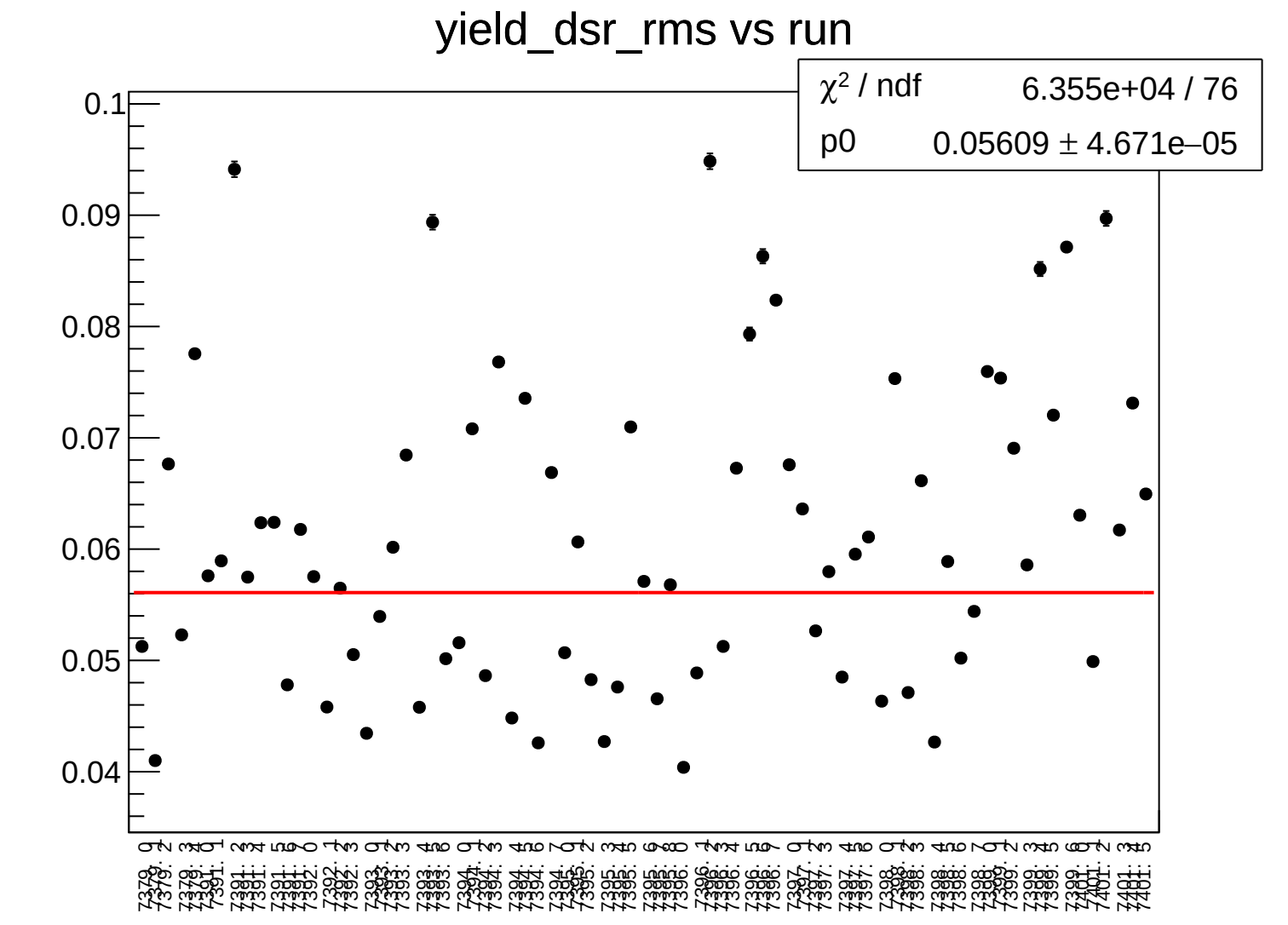

yield_dsl_mean vs run
χ² / ndf 4.326e+06 / 76
p0 84.32 ± 5.395e−05
84.6
84.5
84.4
84.3
84.2
84.1
84
pull
Entries 77
Mean 1.272
Std Dev 53.8
800
600
400
200
0
−200
−400
−600

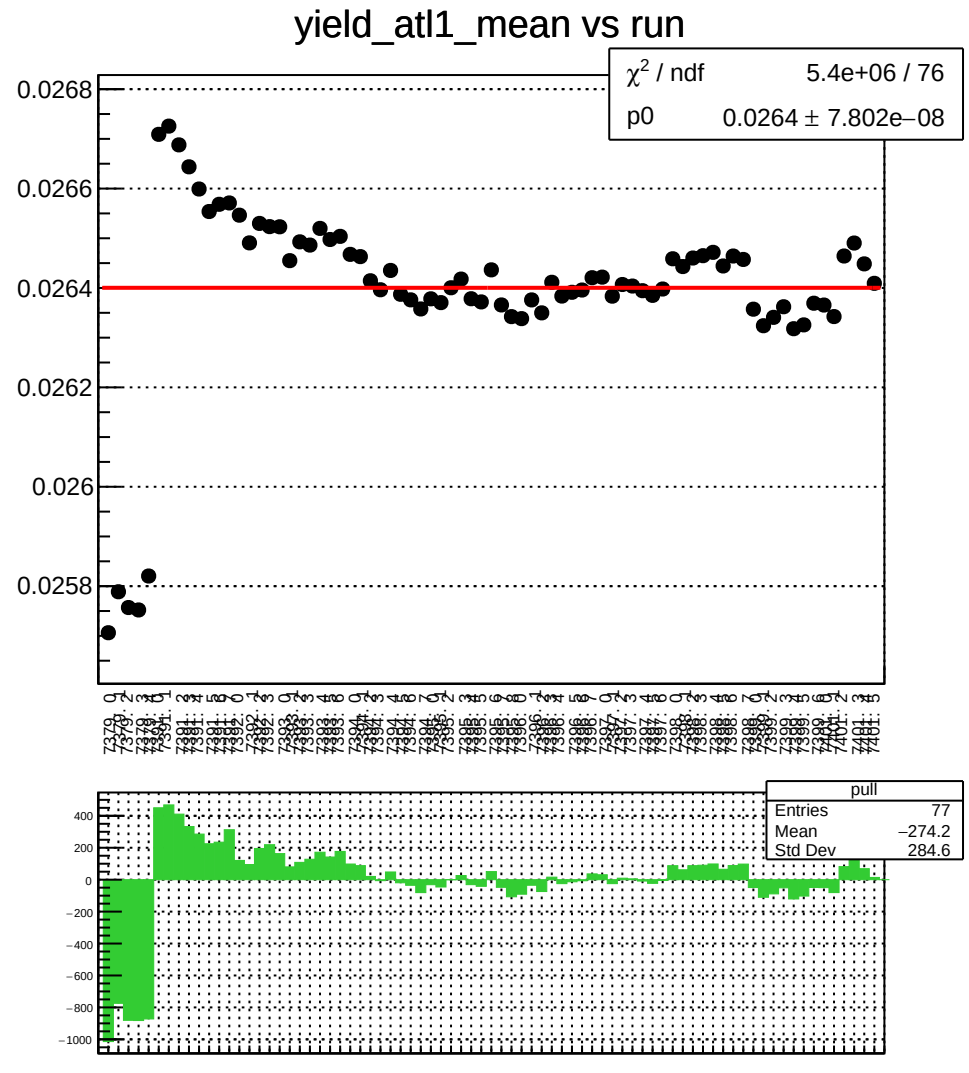

pull1D
Entries 77
Mean 1.379
Std Dev 4.747
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

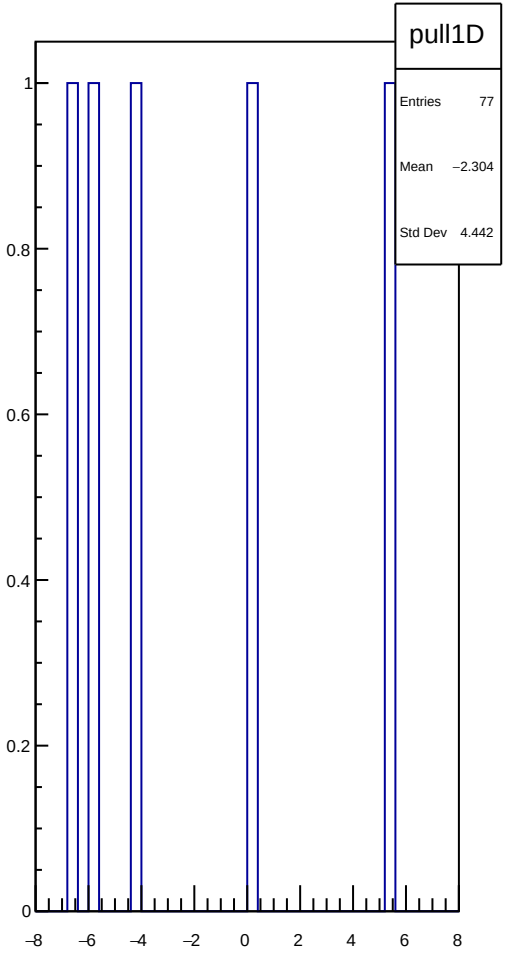

yield_dsl_rms vs run
χ² / ndf 5.568e+04 / 76
p0 0.04593 ± 3.815e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

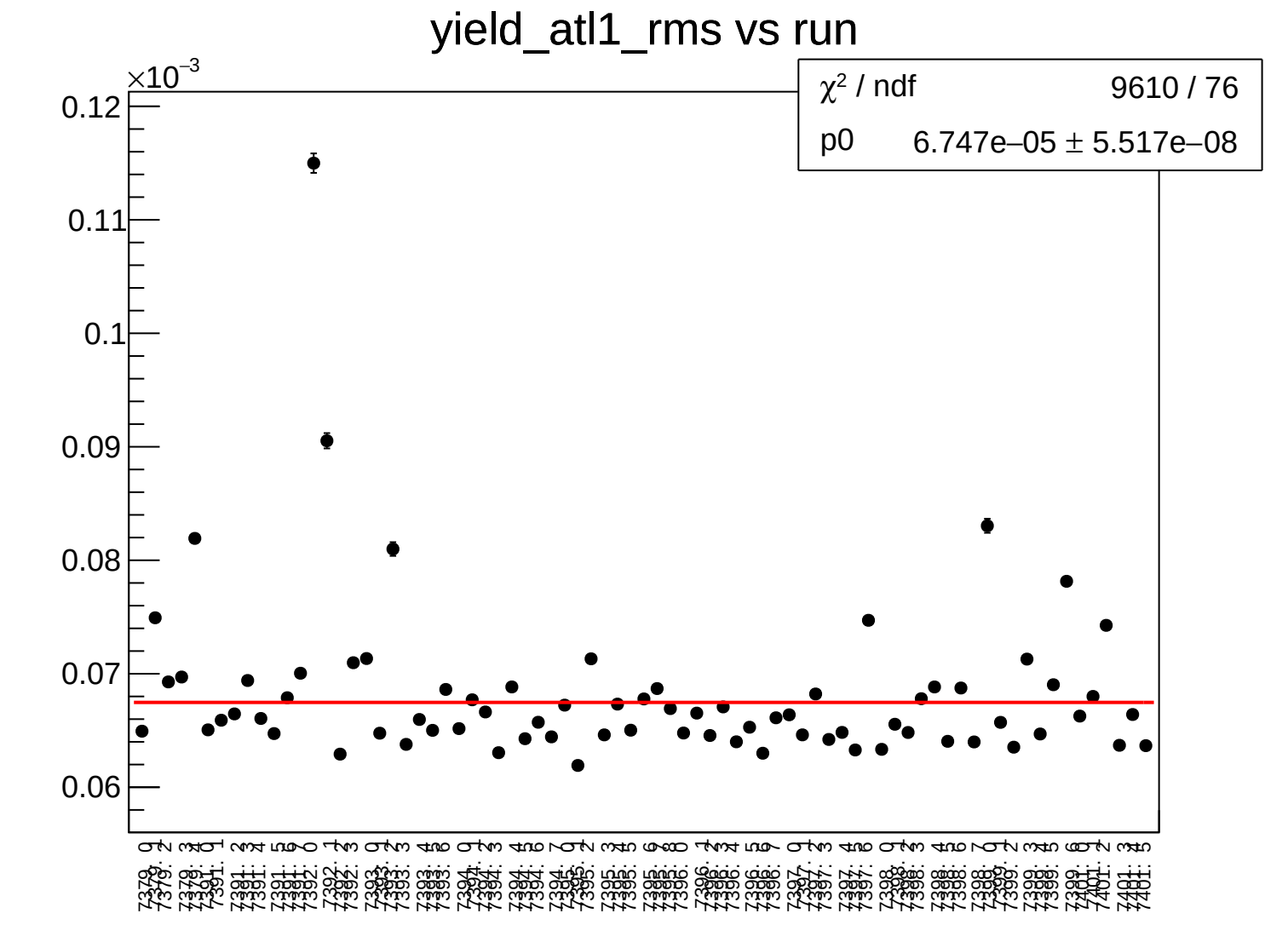

yield_dsr_mean vs run
χ² / ndf 1.661e+06 / 76
p0 −69.49 ± 6.606e−05
−69.3
−69.35
−69.4
−69.45
−69.5
−69.55
−69.6
−69.65
pull
Entries 77
Mean 274.3
Std Dev 235.9
400
300
200
100
0
−100
−200
−300

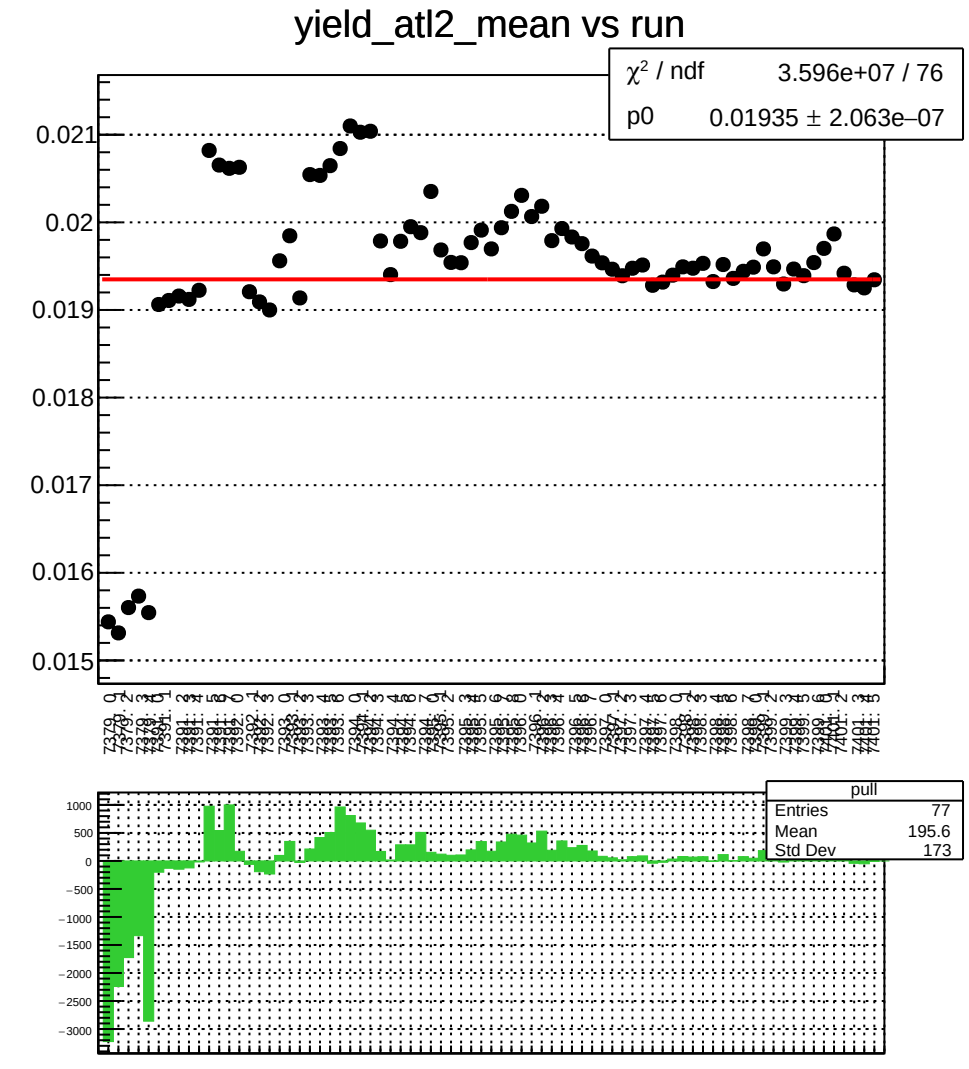

pull1D
Entries 77
Mean 0.3212
Std Dev 3.826
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

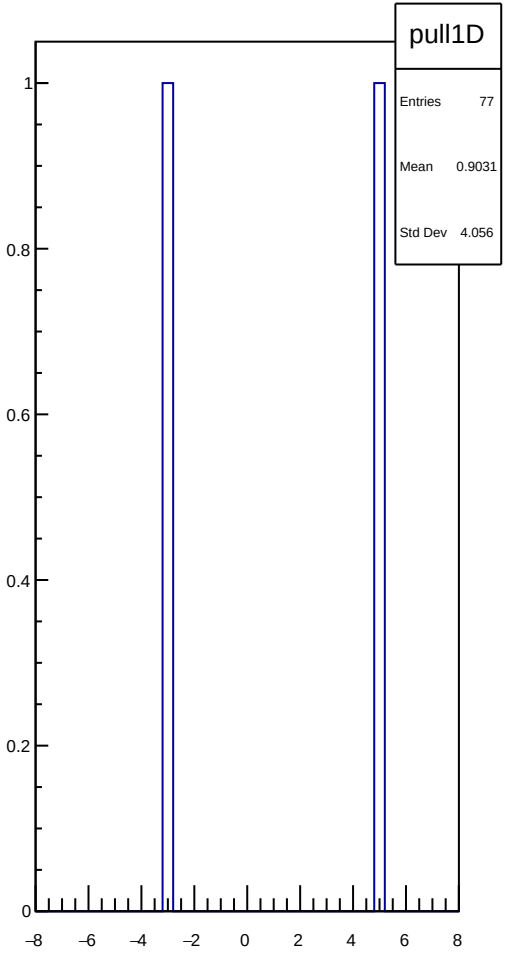

yield_dsr_rms vs run
χ² / ndf 6.355e+04 / 76
p0 0.05609 ± 4.671e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

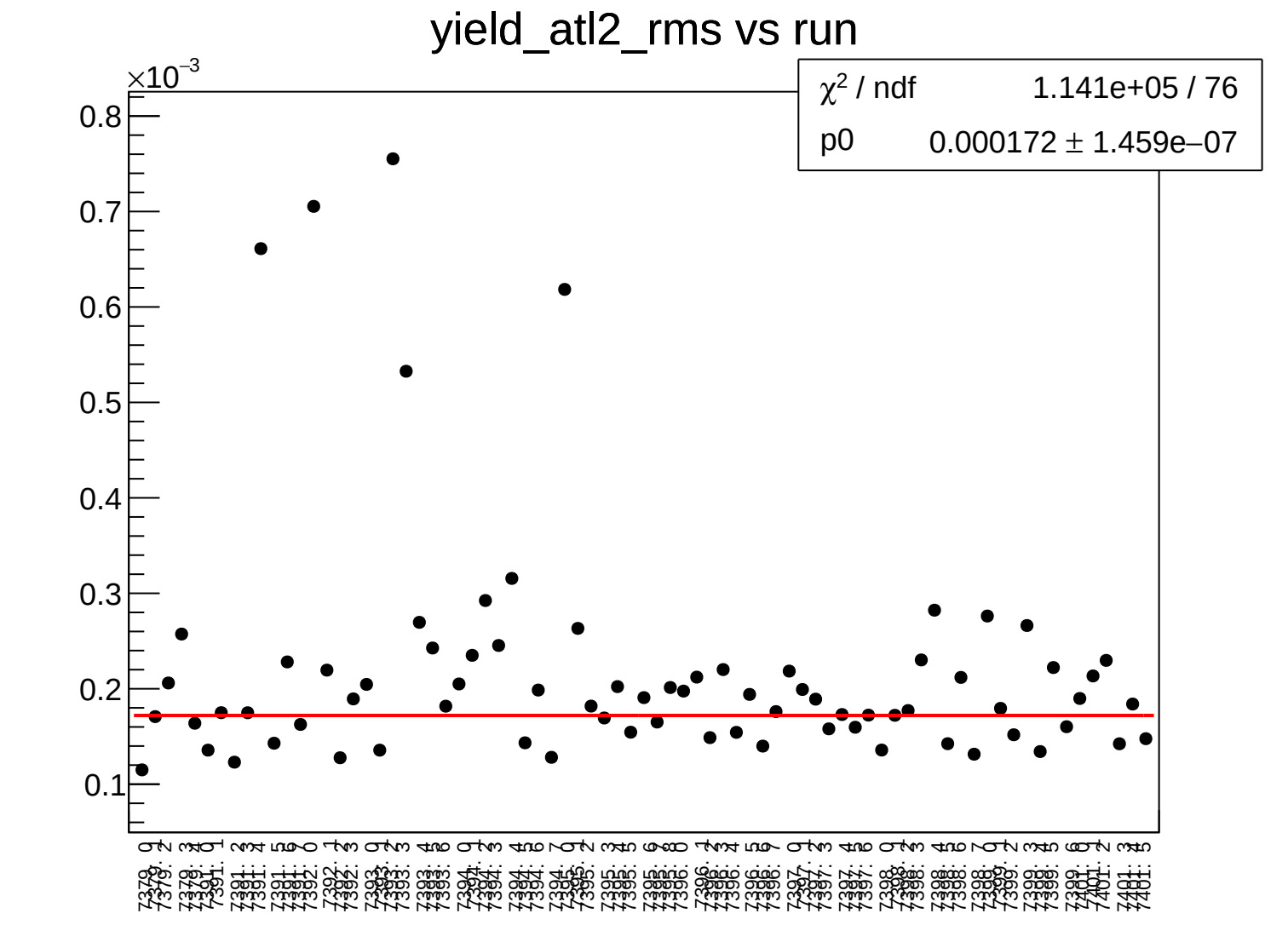

yield_atl1_mean vs run
χ² / ndf 5.4e+06 / 76
p0 0.0264 ± 7.802e−08
0.0268
0.0266
0.0264
0.0262
0.026
0.0258
pull
Entries 77
Mean −274.2
Std Dev 284.6
400
200
0
−200
−400
−600
−800
−1000

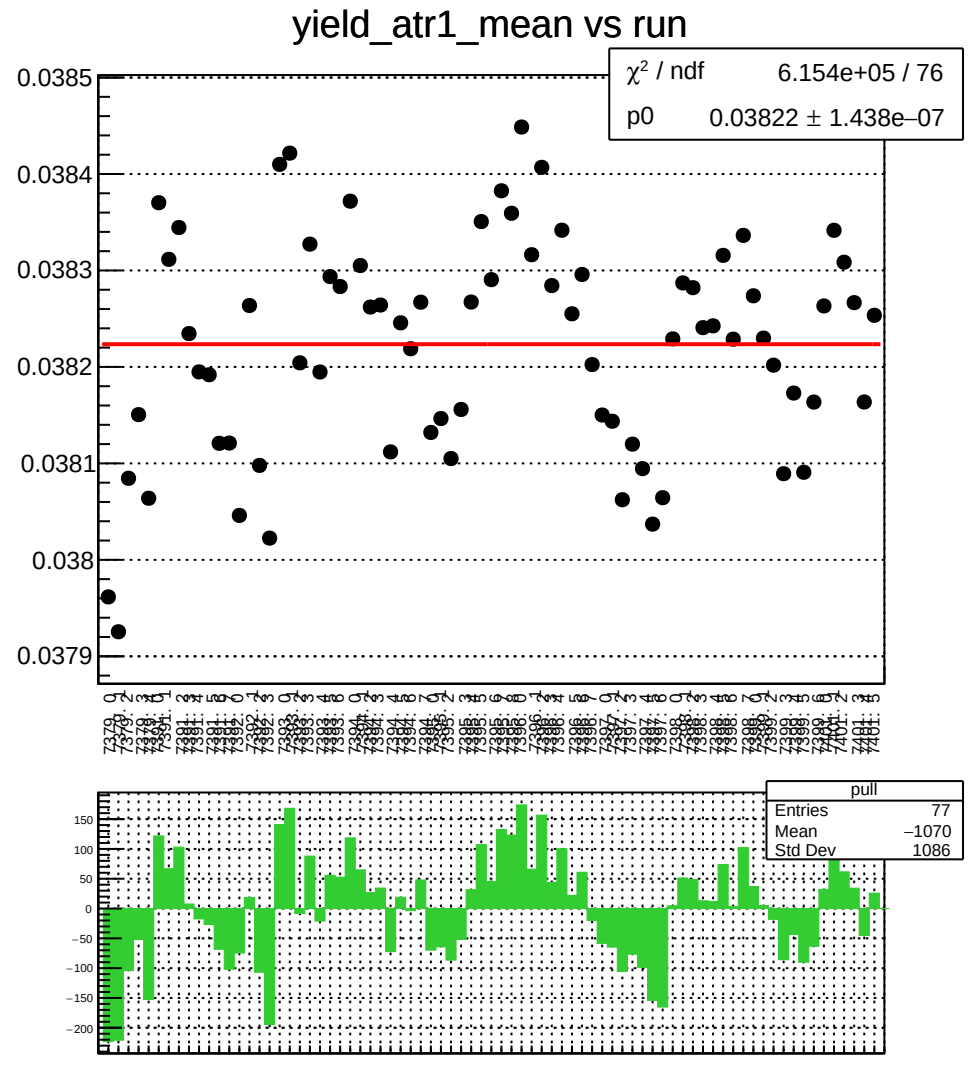

pull1D
Entries 77
Mean −2.304
Std Dev 4.442
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

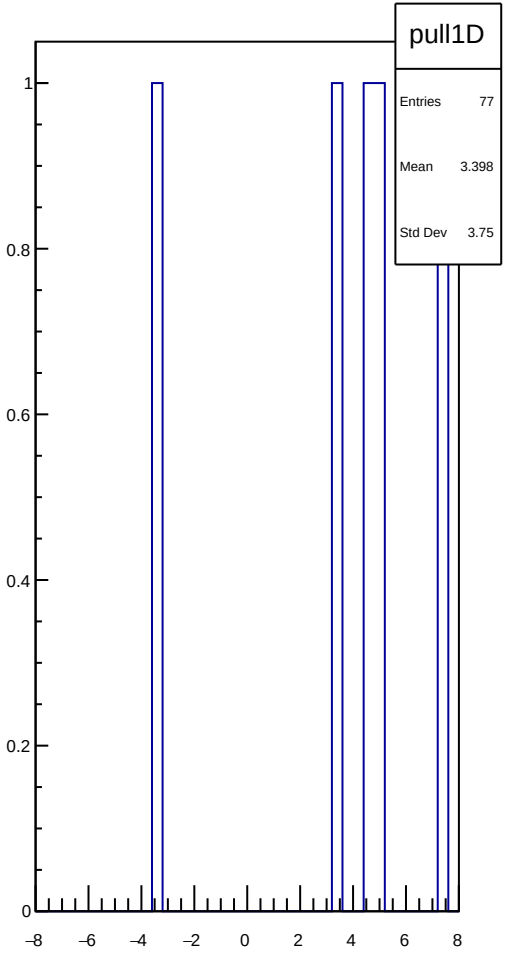

yield_atl1_rms vs run
×10⁻³
χ² / ndf 9610 / 76
p0 6.747e−05 ± 5.517e−08
0.12
0.11
0.1
0.09
0.08
0.07
0.06

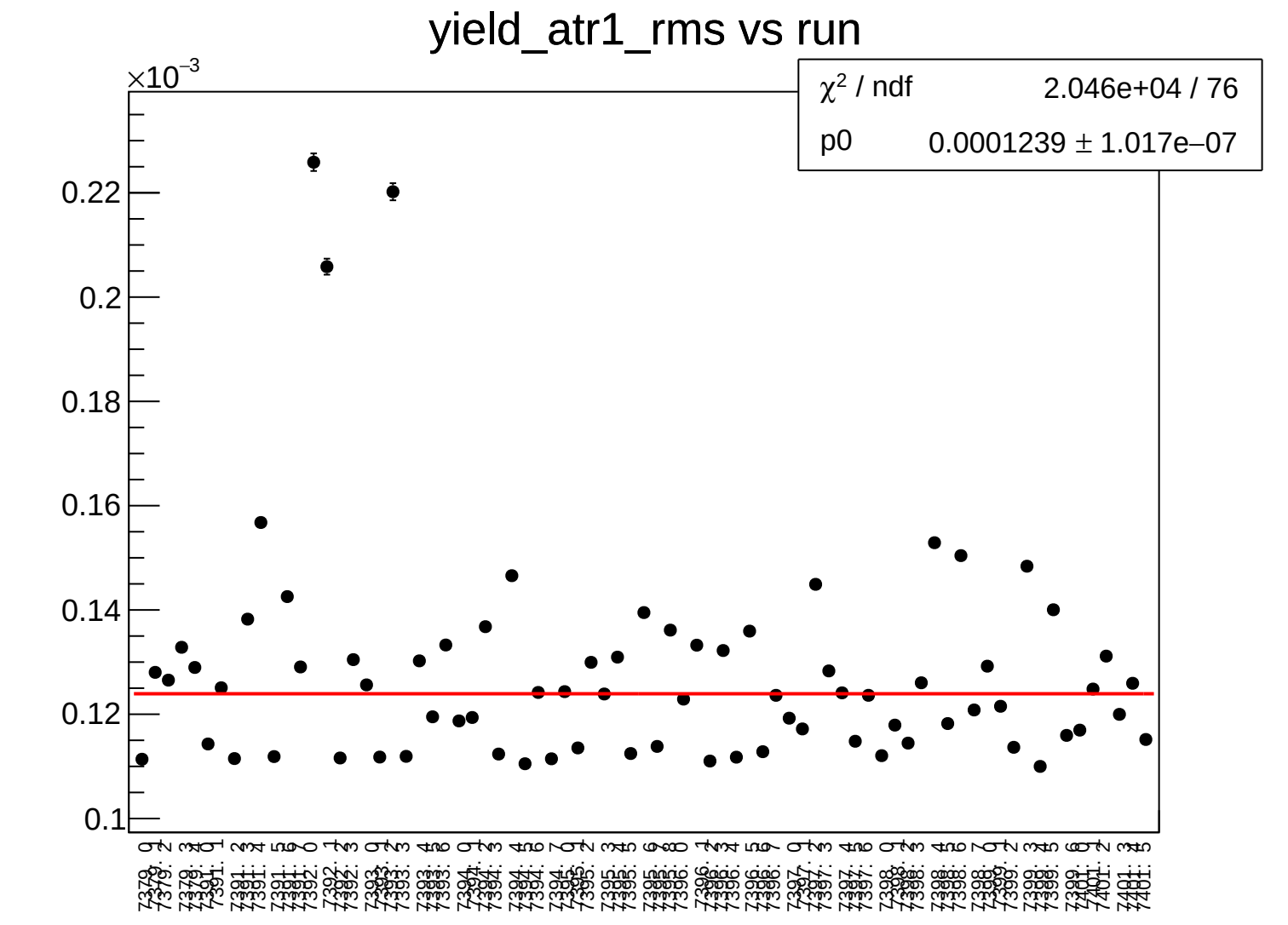

yield_atl2_mean vs run
χ² / ndf 3.596e+07 / 76
p0 0.01935 ± 2.063e−07
0.021
0.02
0.019
0.018
0.017
0.016
0.015
pull
Entries 77
Mean 195.6
Std Dev 173
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

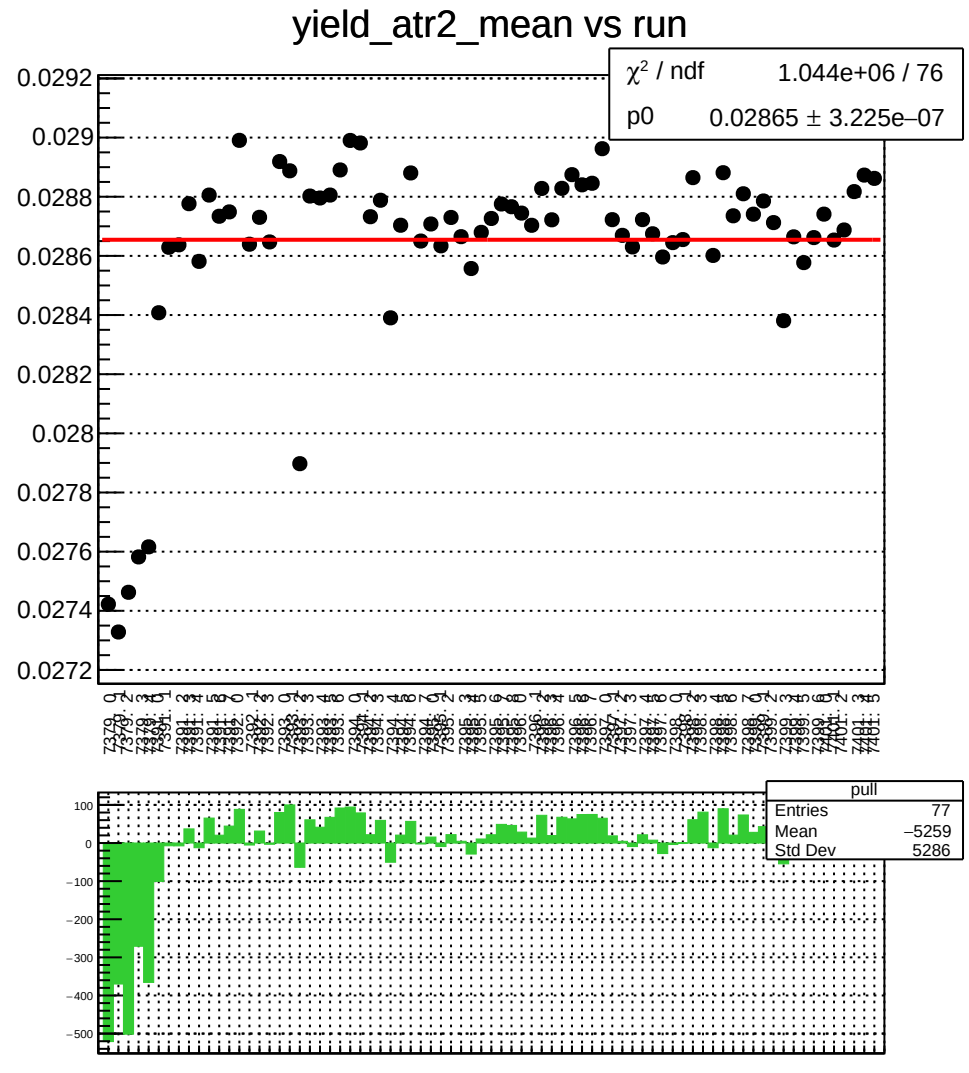

pull1D
Entries 77
Mean 0.9031
Std Dev 4.056
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

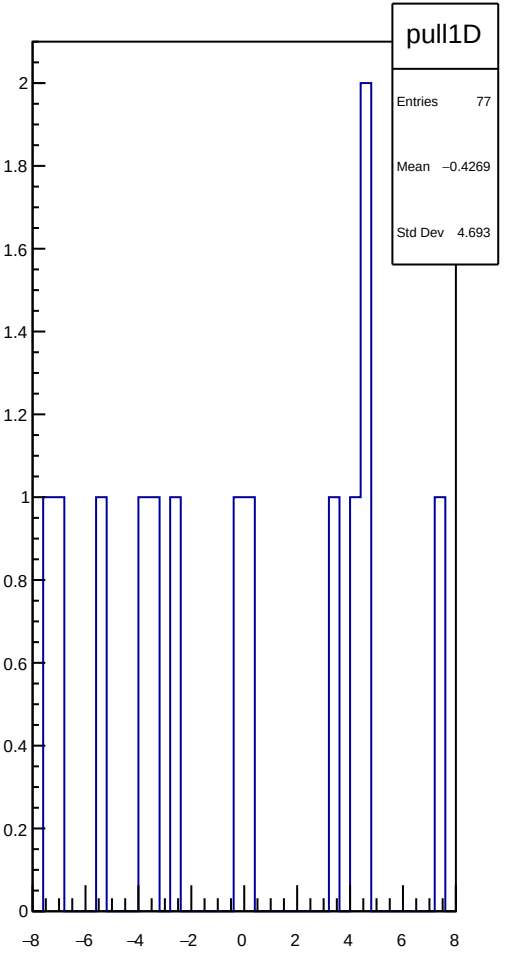

yield_atl2_rms vs run
×10⁻³
χ² / ndf 1.141e+05 / 76
p0 0.000172 ± 1.459e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

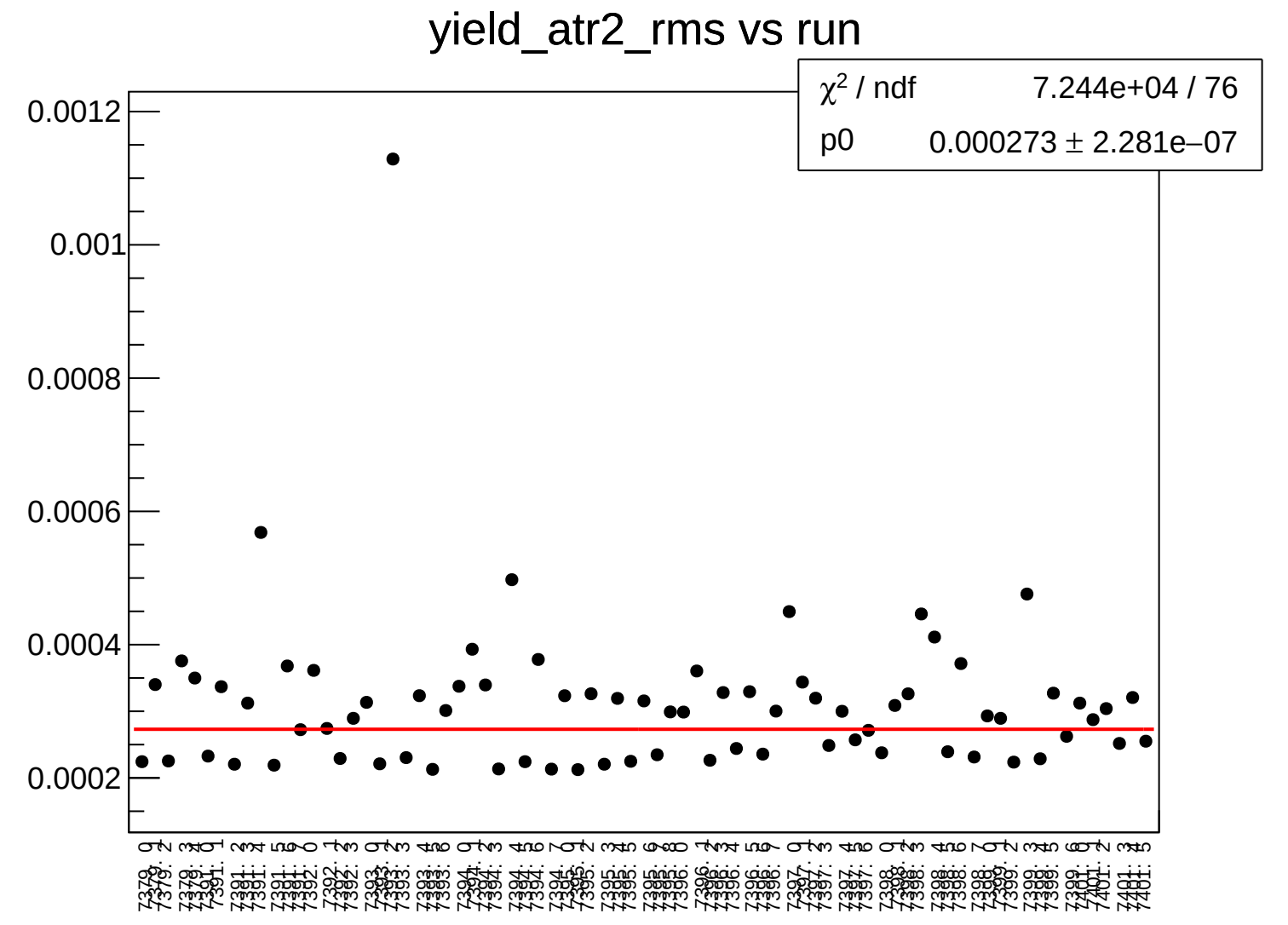

yield_atr1_mean vs run
χ² / ndf 6.154e+05 / 76
p0 0.03822 ± 1.438e−07
0.0385
0.0384
0.0383
0.0382
0.0381
0.038
0.0379
pull
Entries 77
Mean −1070
Std Dev 1086
150
100
50
0
−50
−100
−150
−200

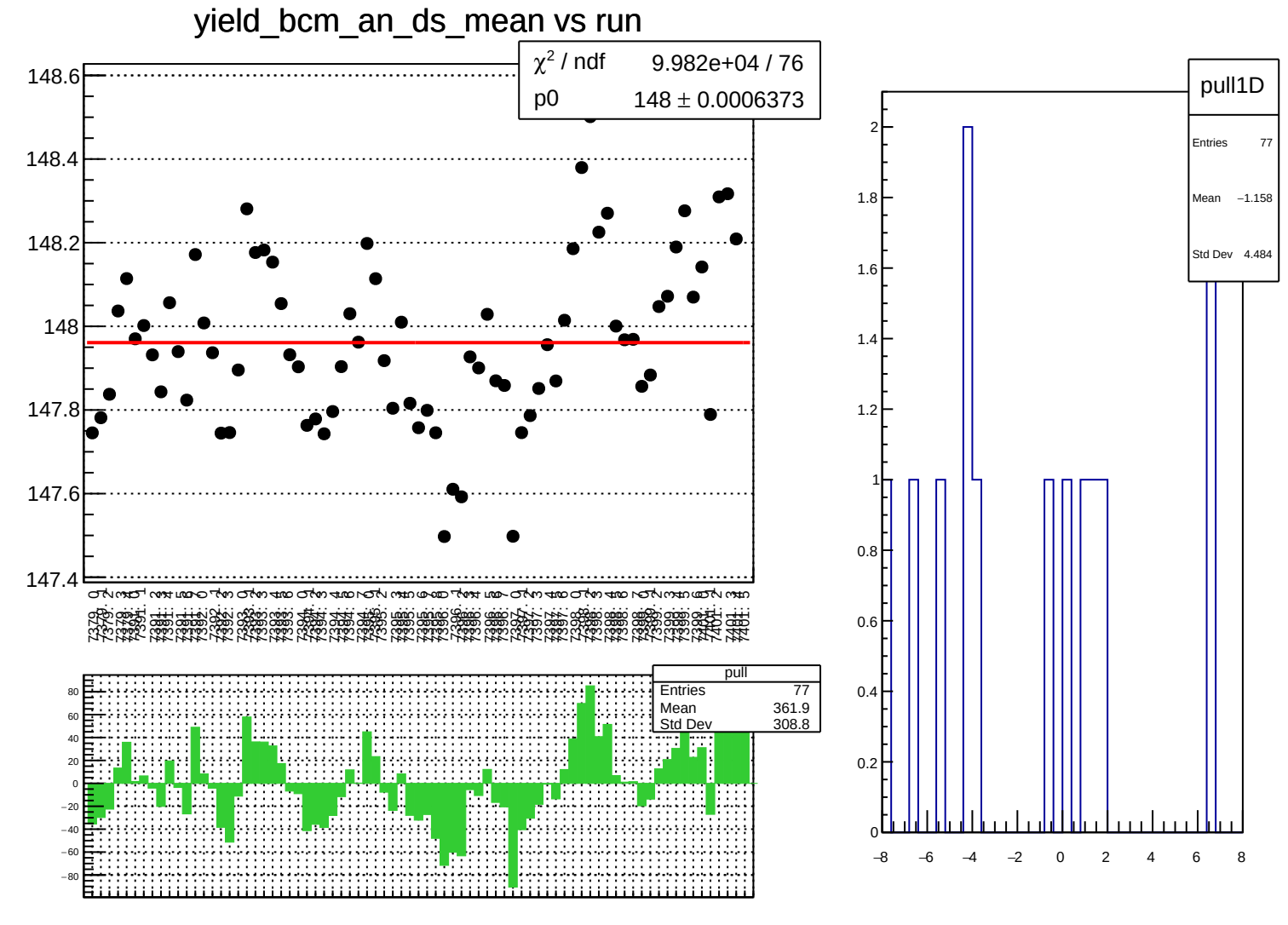

pull1D
Entries 77
Mean 3.398
Std Dev 3.75
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

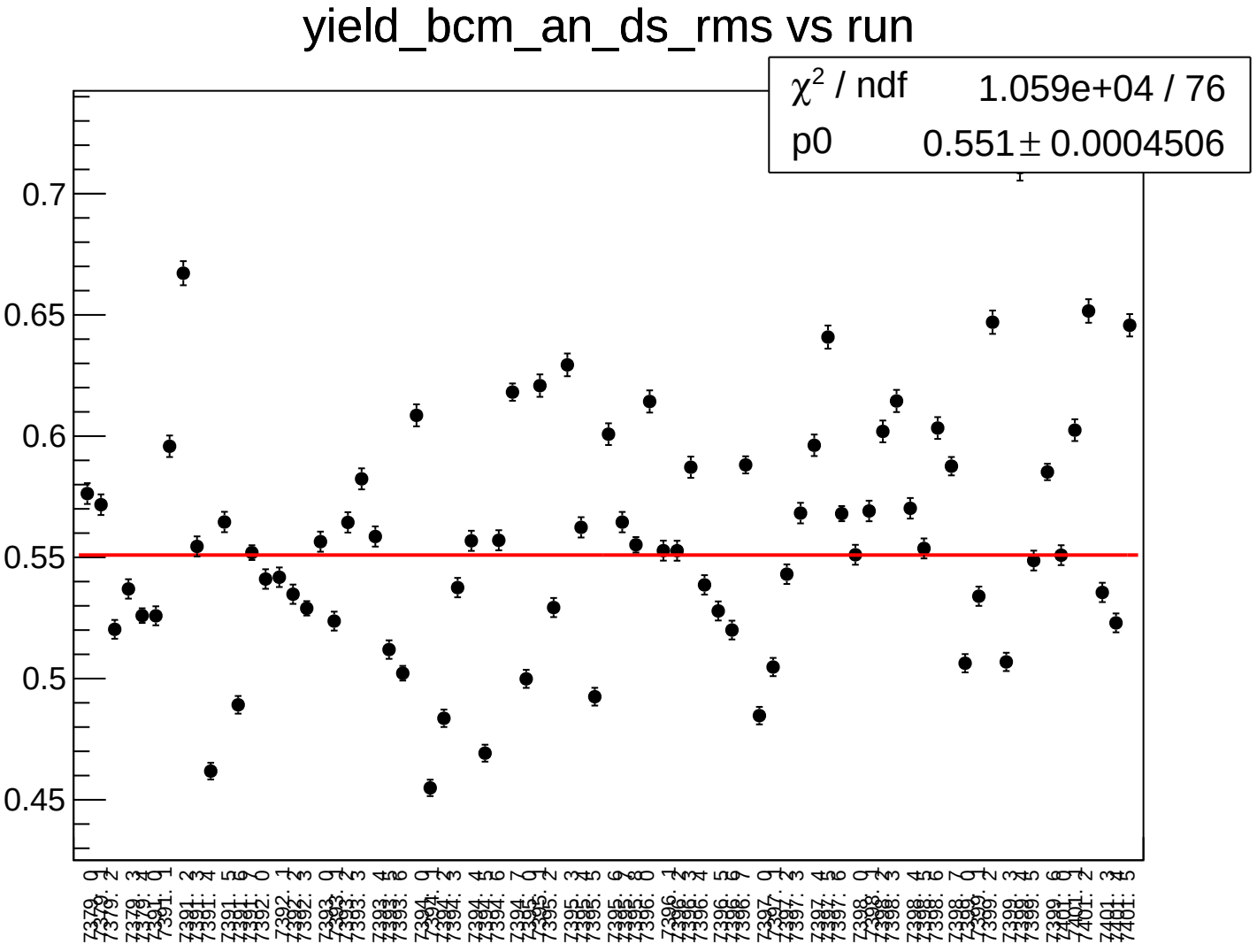

yield_atr1_rms vs run
×10⁻³
χ² / ndf 2.046e+04 / 76
p0 0.0001239 ± 1.017e−07
0.22
0.2
0.18
0.16
0.14
0.12
0.1

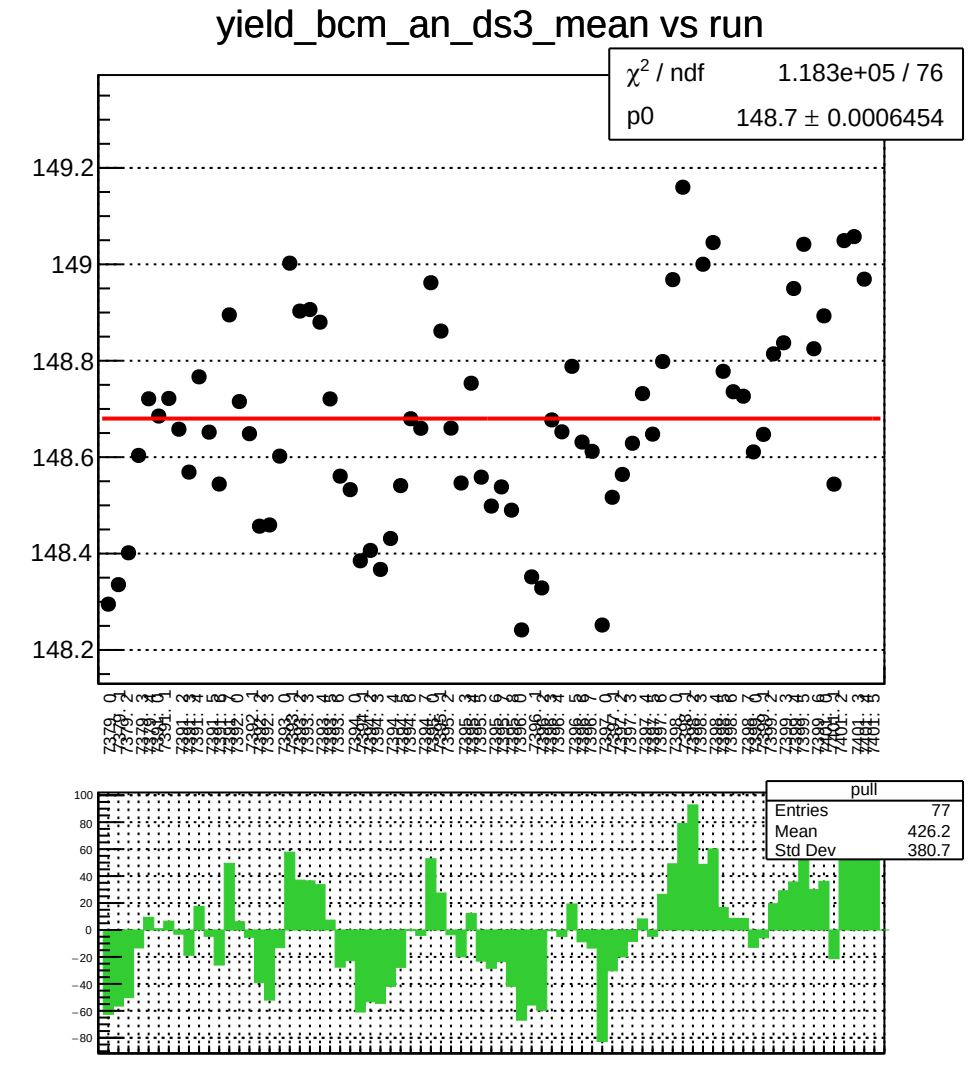

yield_atr2_mean vs run
χ² / ndf 1.044e+06 / 76
p0 0.02865 ± 3.225e−07
0.0292
0.029
0.0288
0.0286
0.0284
0.0282
0.028
0.0278
0.0276
0.0274
0.0272
pull
Entries 77
Mean −5259
Std Dev 5286
100
0
−100
−200
−300
−400
−500

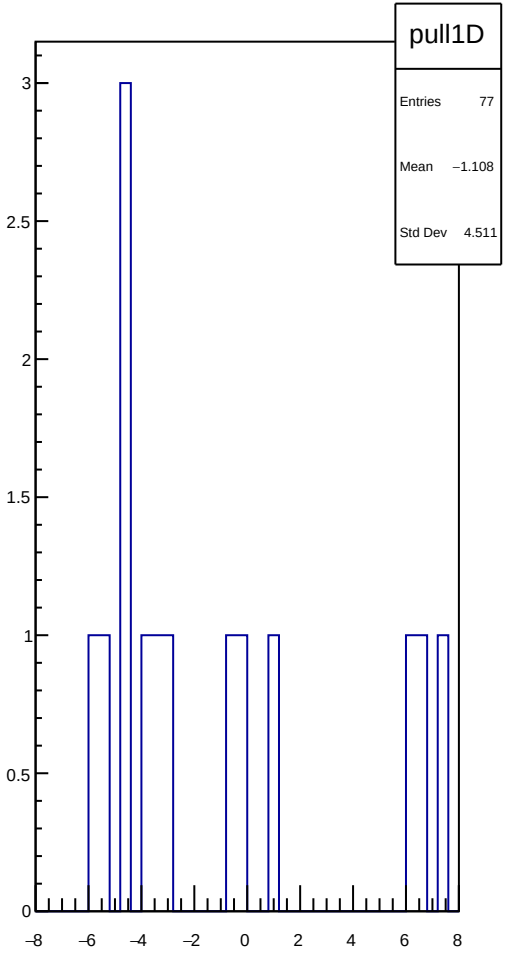

pull1D
Entries 77
Mean −0.4269
Std Dev 4.693
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

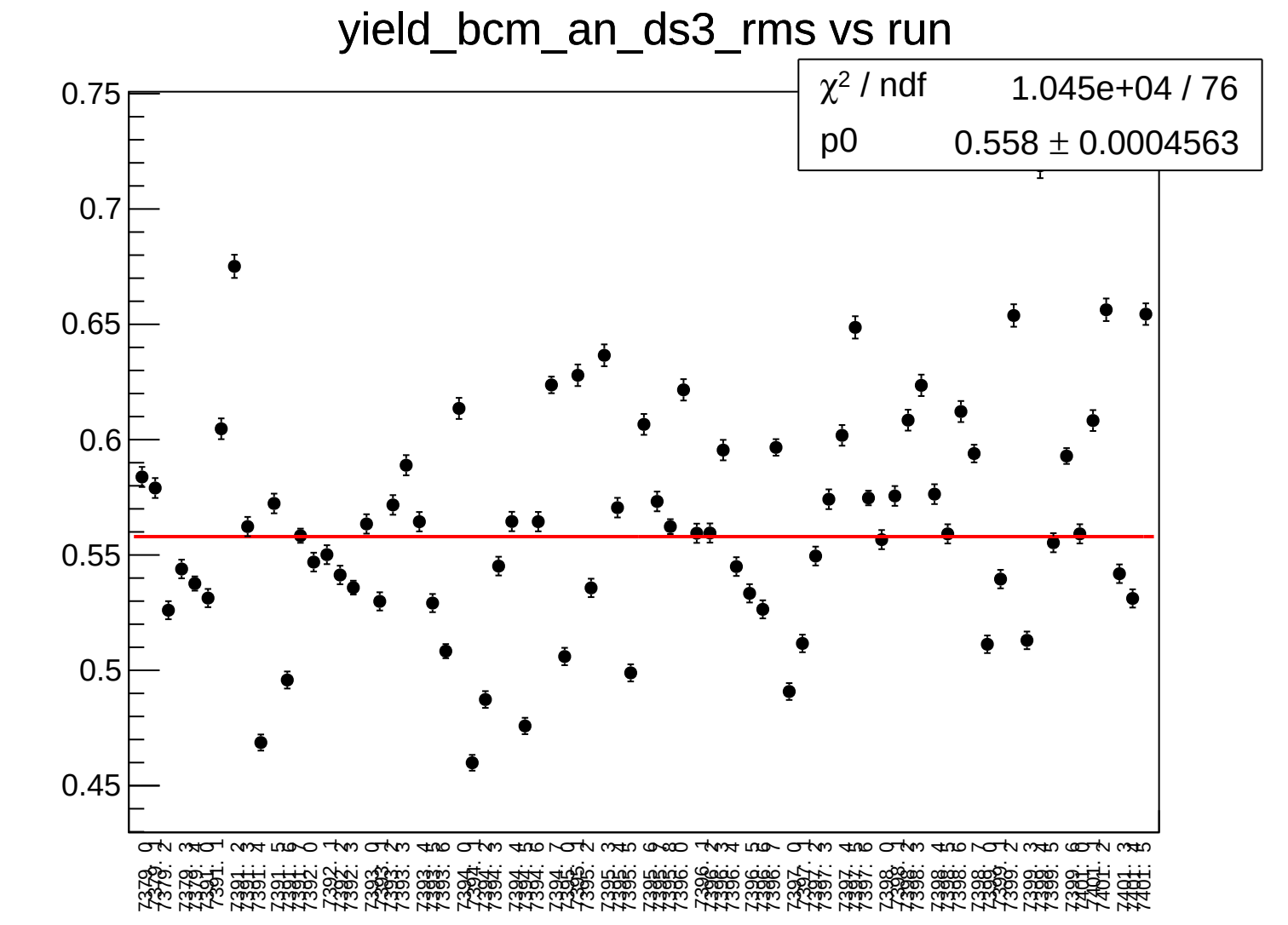

yield_atr2_rms vs run
χ^2 / ndf 7.244e+04 / 76
p0 0.000273 ± 2.281e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

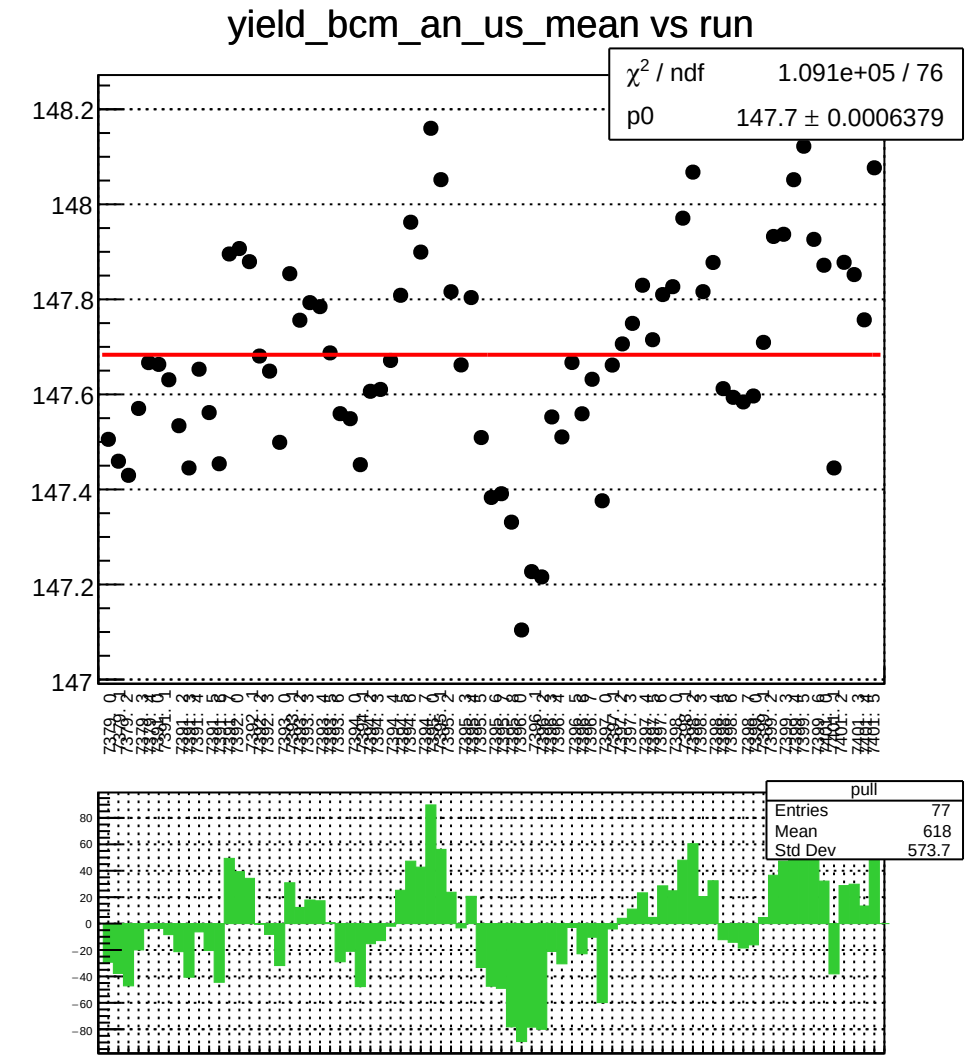

yield_bcm_an_ds_mean vs run
χ² / ndf 9.982e+04 / 76
p0 148 ± 0.0006373
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 77
Mean 361.9
Std Dev 308.8
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 77
Mean −1.158
Std Dev 4.484
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

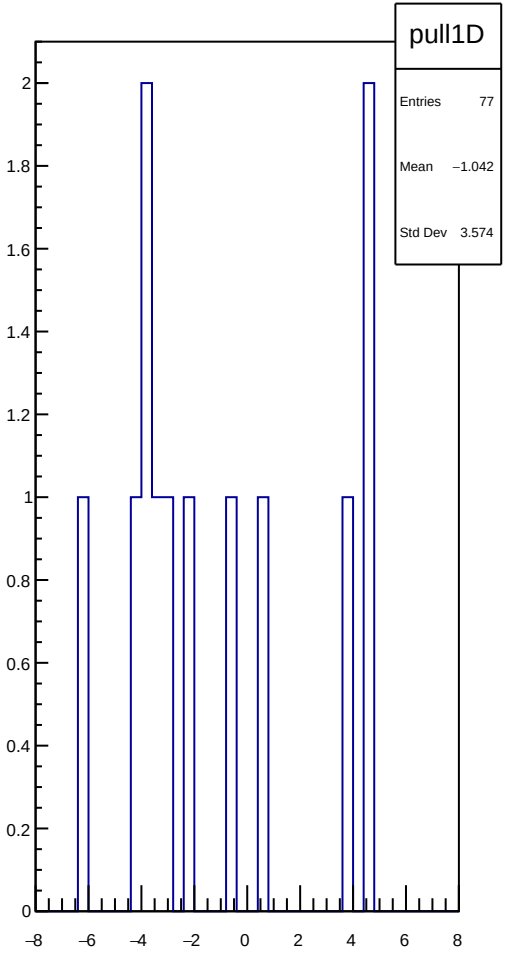

yield_bcm_an_ds_rms vs run
χ² / ndf 1.059e+04 / 76
p0 0.551 ± 0.0004506
0.7
0.65
0.6
0.55
0.5
0.45

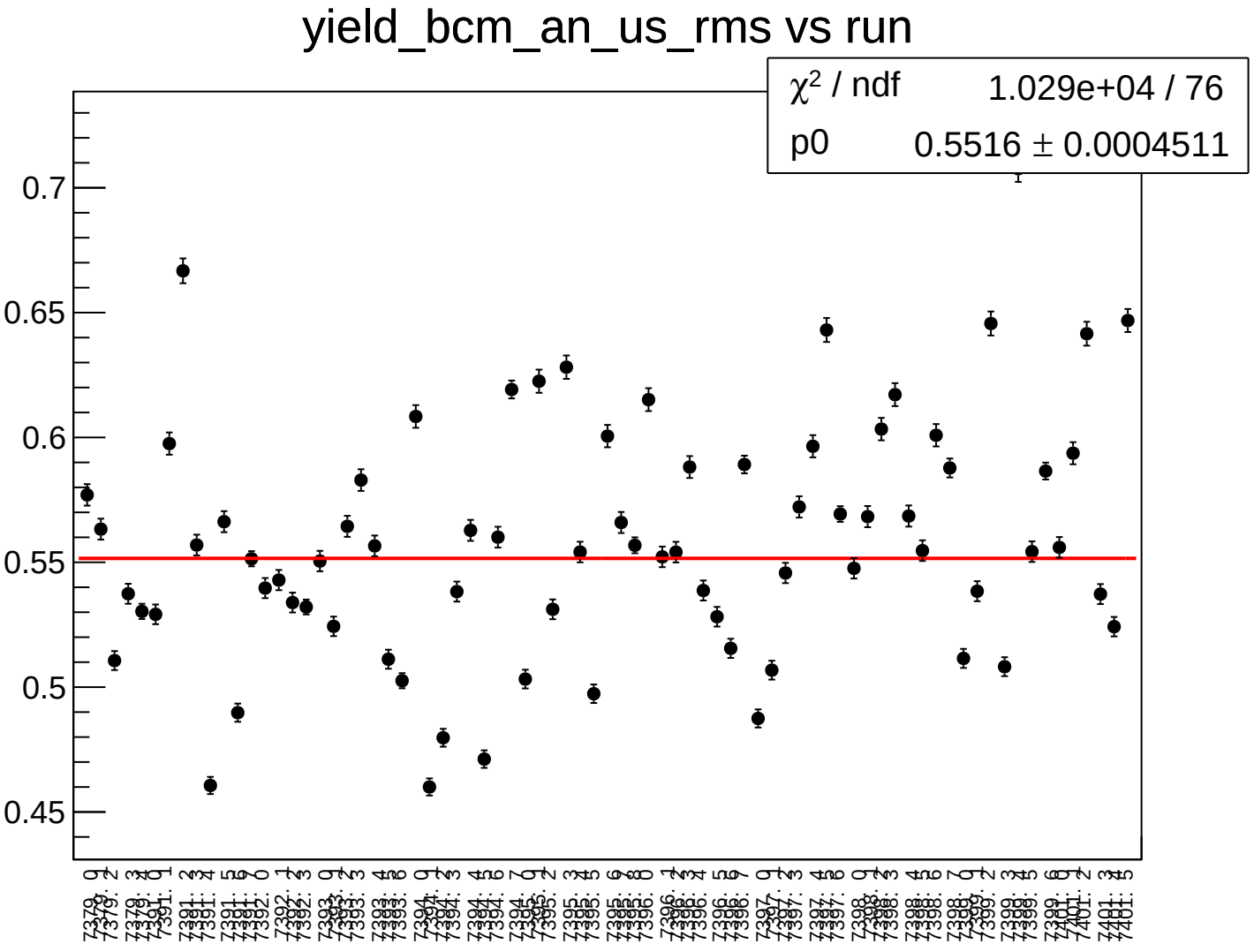

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.183e+05 / 76
p0 148.7 ± 0.0006454
149.2
149
148.8
148.6
148.4
148.2
pull
Entries 77
Mean 426.2
Std Dev 380.7
100
80
60
40
20
0
−20
−40
−60
−80

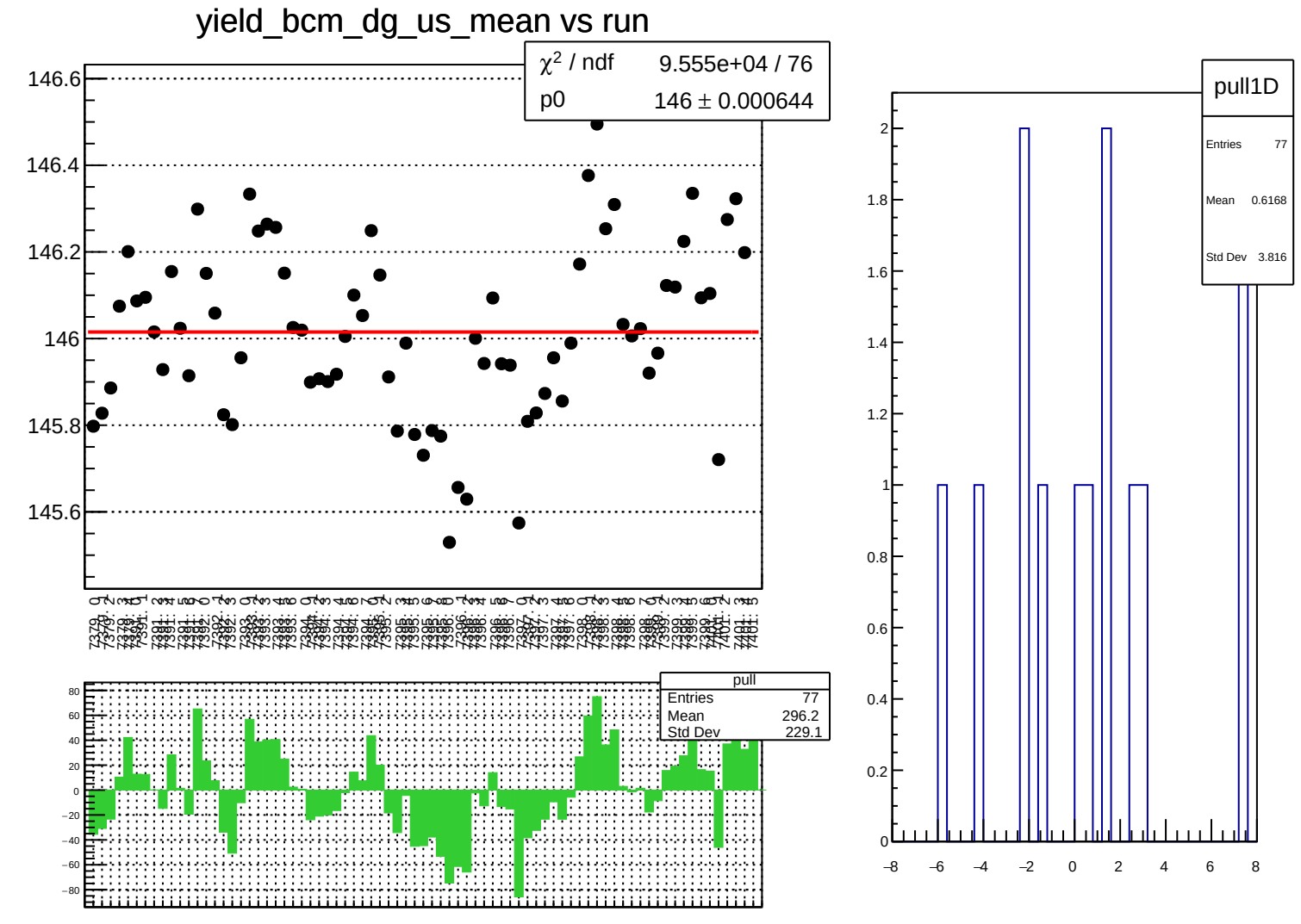

pull1D
Entries 77
Mean −1.108
Std Dev 4.511
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

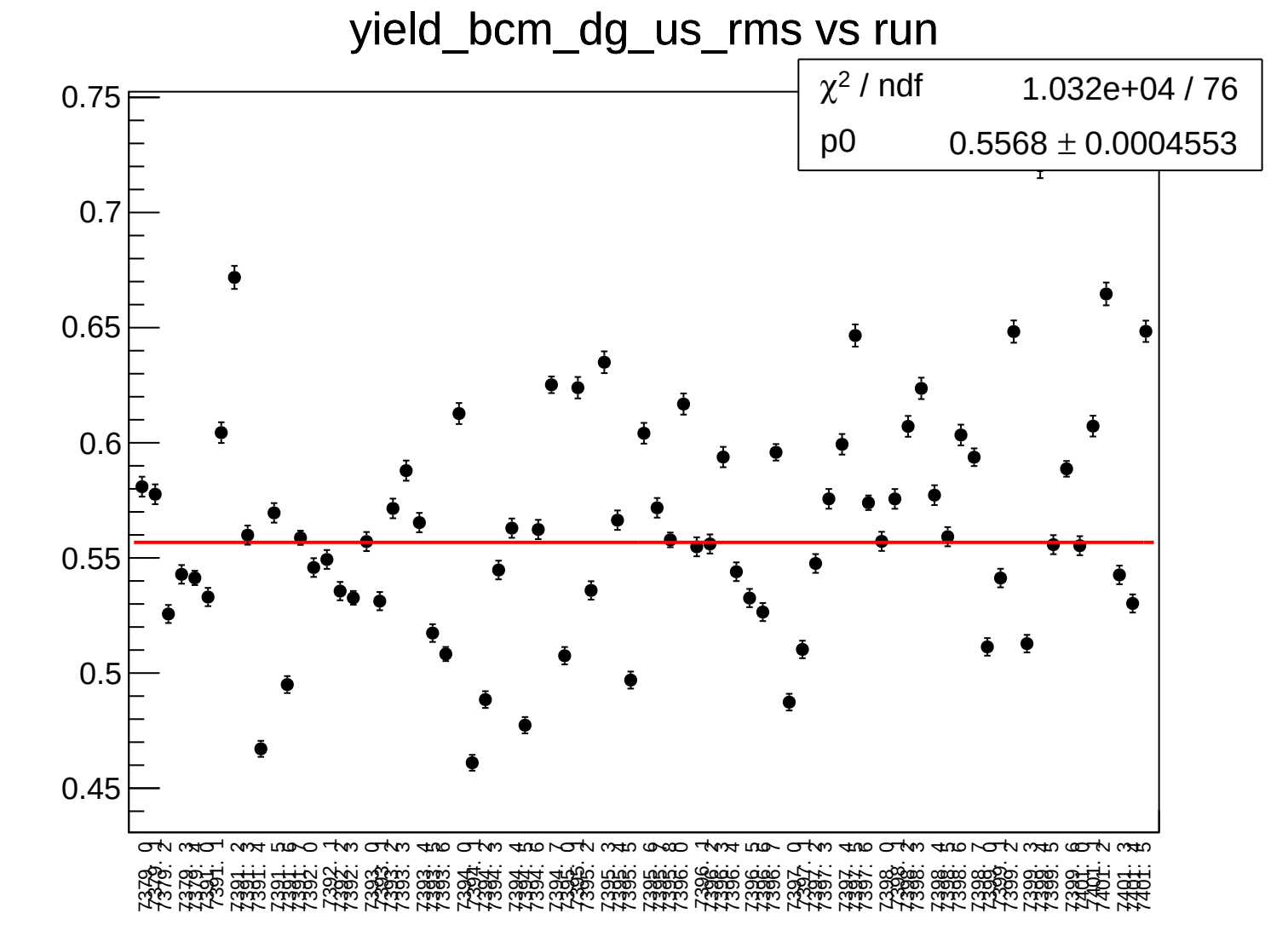

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.045e+04 / 76
p0 0.558 ± 0.0004563
0.75
0.7
0.65
0.6
0.55
0.5
0.45

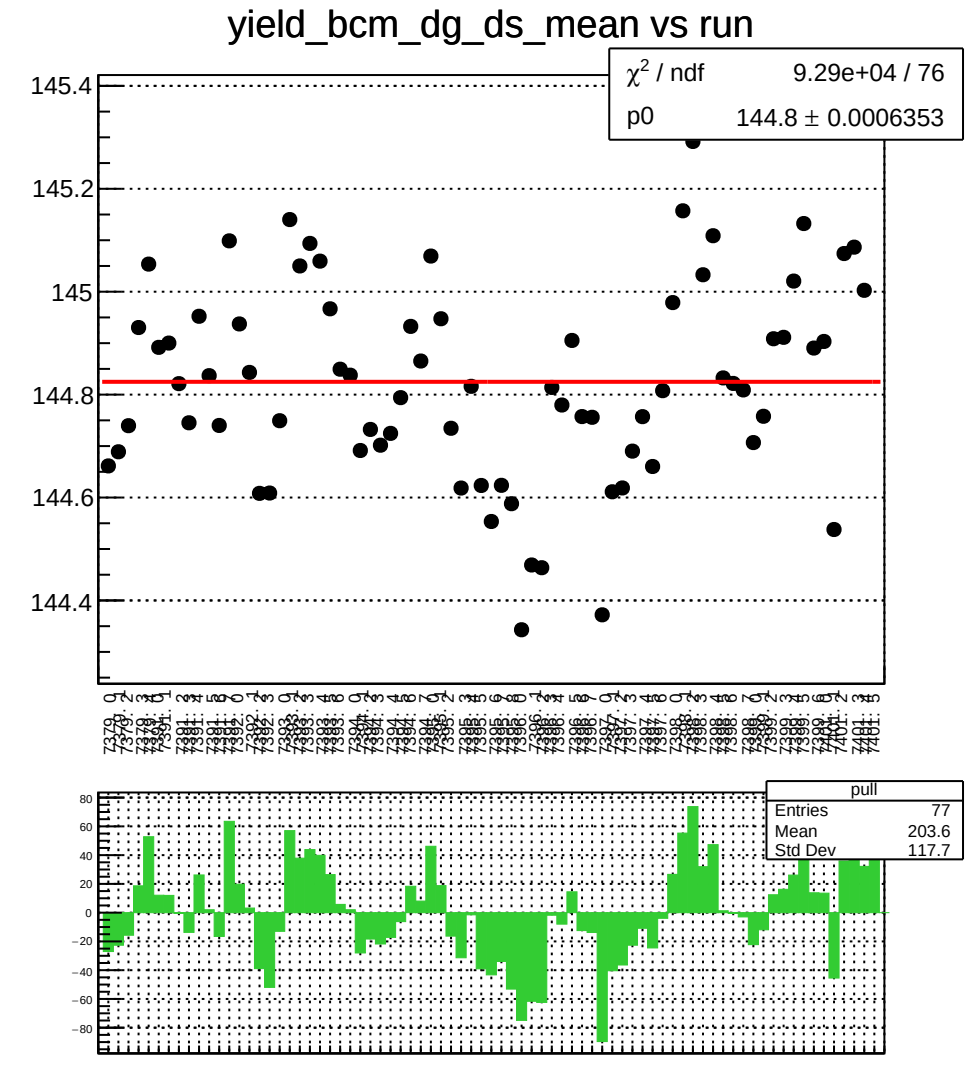

yield_bcm_an_us_mean vs run
χ² / ndf 1.091e+05 / 76
p0 147.7 ± 0.0006379
148.2
148
147.8
147.6
147.4
147.2
147
pull
Entries 77
Mean 618
Std Dev 573.7
80
60
40
20
0
−20
−40
−60
−80

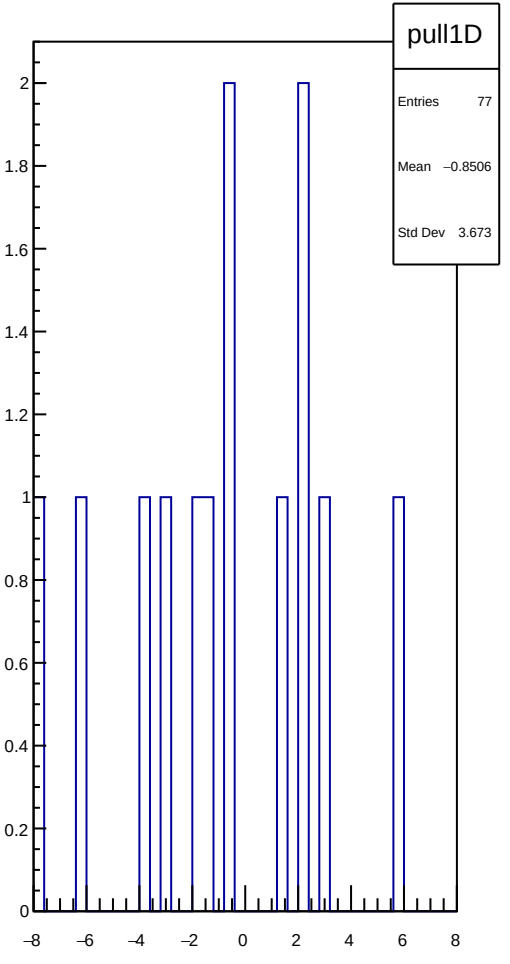

pull1D
Entries 77
Mean −1.042
Std Dev 3.574
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

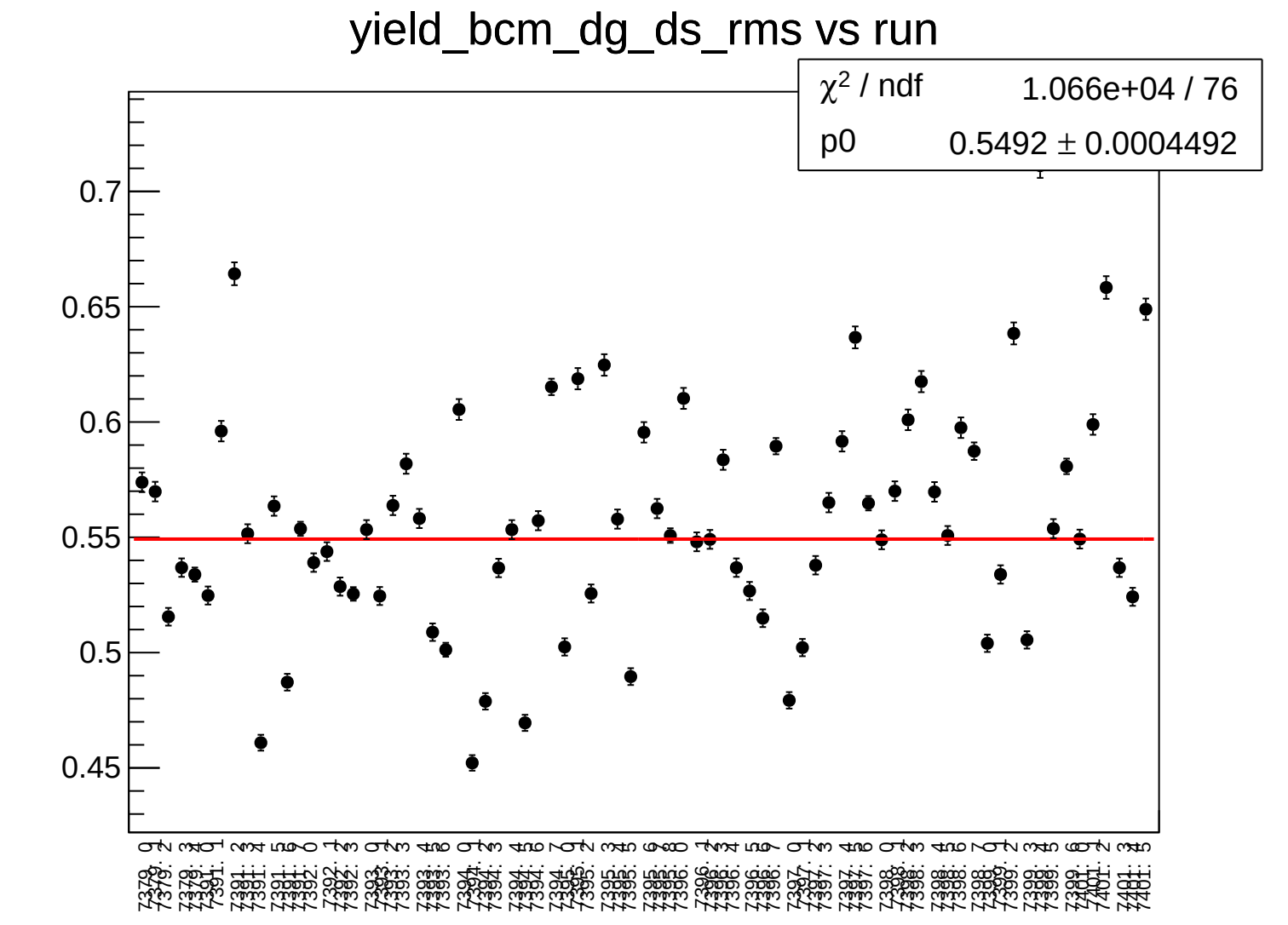

yield_bcm_an_us_rms vs run
χ² / ndf 1.029e+04 / 76
p0 0.5516 ± 0.0004511
0.7
0.65
0.6
0.55
0.5
0.45

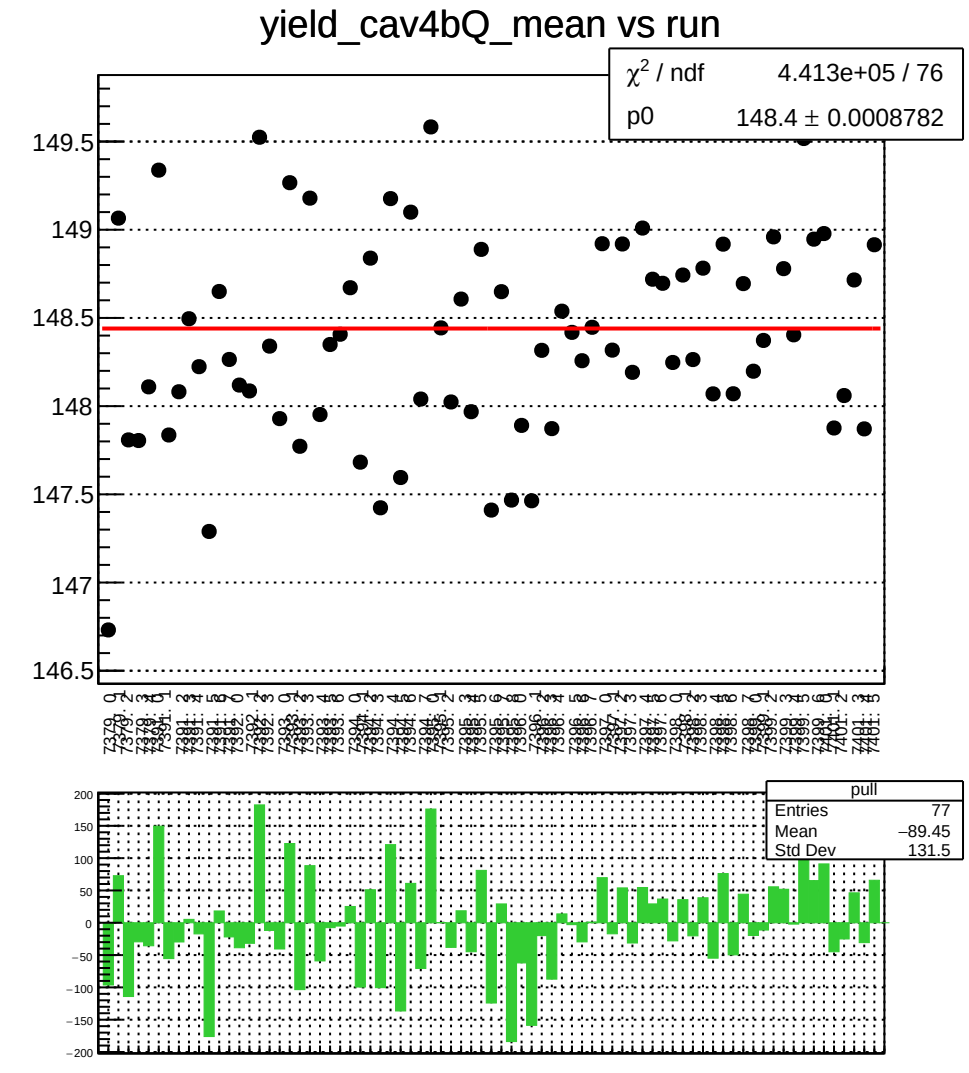

yield_bcm_dg_us_mean vs run
χ² / ndf 9.555e+04 / 76
p0 146 ± 0.000644
146.6
146.4
146.2
146
145.8
145.6
pull
Entries 77
Mean 296.2
Std Dev 229.1
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 77
Mean 0.6168
Std Dev 3.816
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

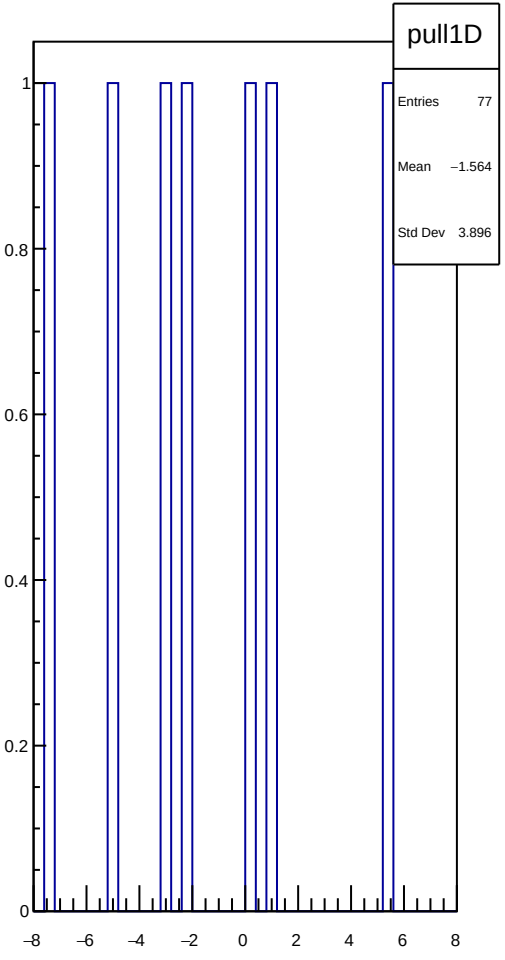

yield_bcm_dg_us_rms vs run
χ² / ndf 1.032e+04 / 76
p0 0.5568 ± 0.0004553
0.75
0.7
0.65
0.6
0.55
0.5
0.45

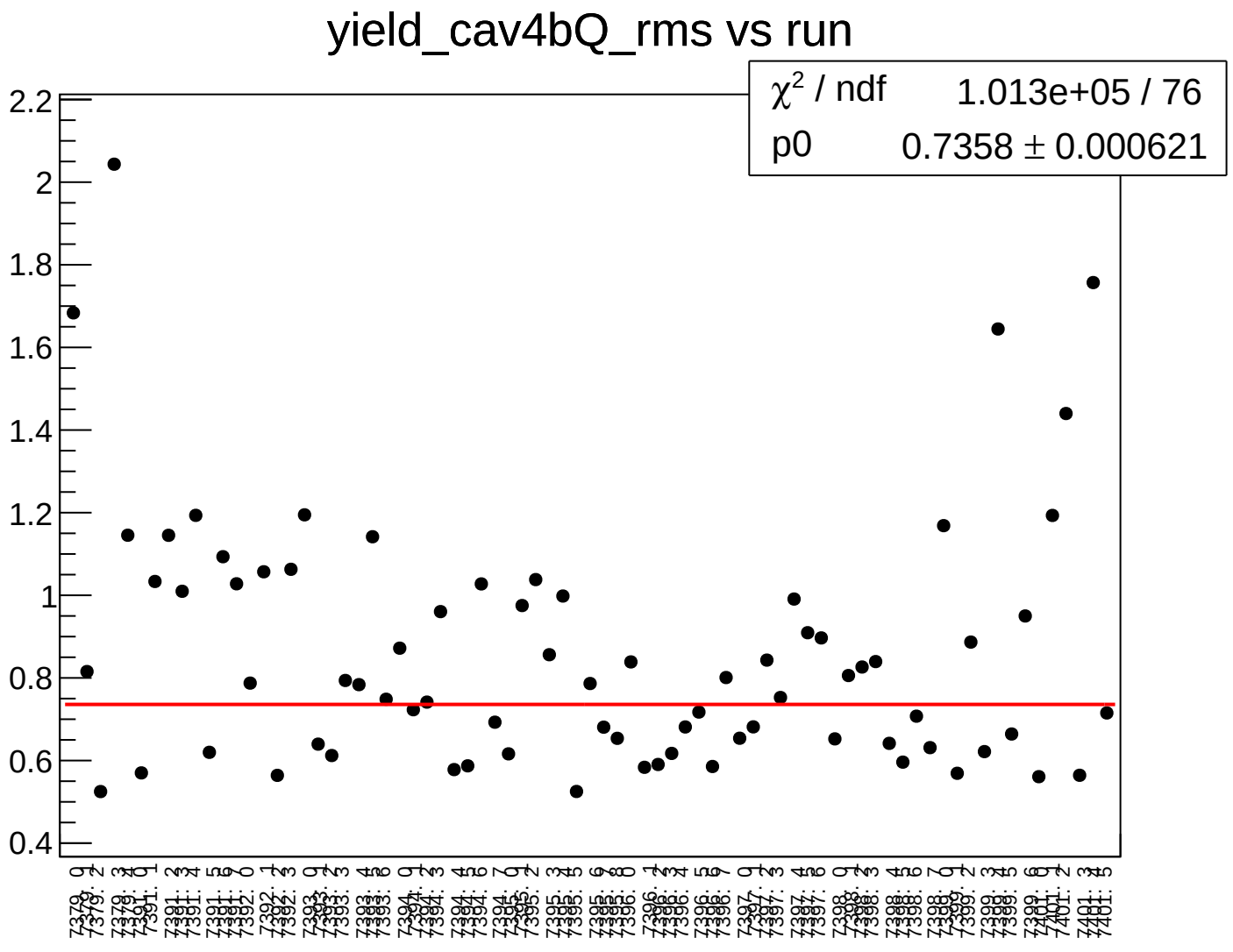

yield_bcm_dg_ds_mean vs run
χ² / ndf 9.29e+04 / 76
p0 144.8 ± 0.0006353
145.4
145.2
145
144.8
144.6
144.4
pull
Entries 77
Mean 203.6
Std Dev 117.7
80
60
40
20
0
−20
−40
−60
−80

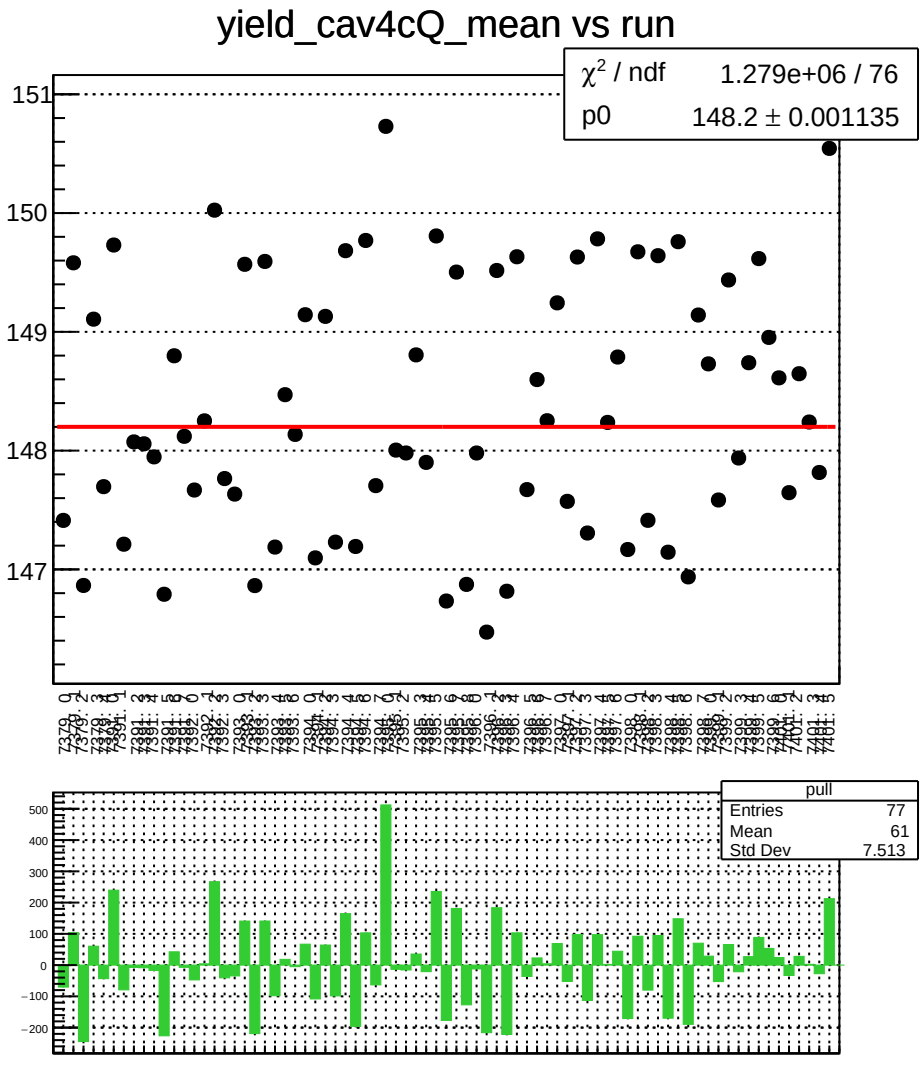

pull1D
Entries 77
Mean −0.8506
Std Dev 3.673
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

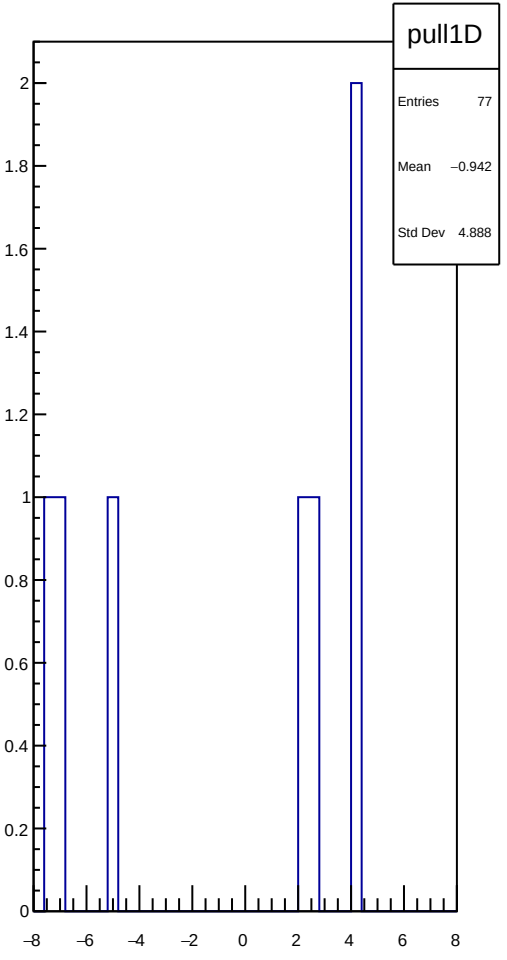

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.066e+04 / 76
p0 0.5492 ± 0.0004492
0.7
0.65
0.6
0.55
0.5
0.45

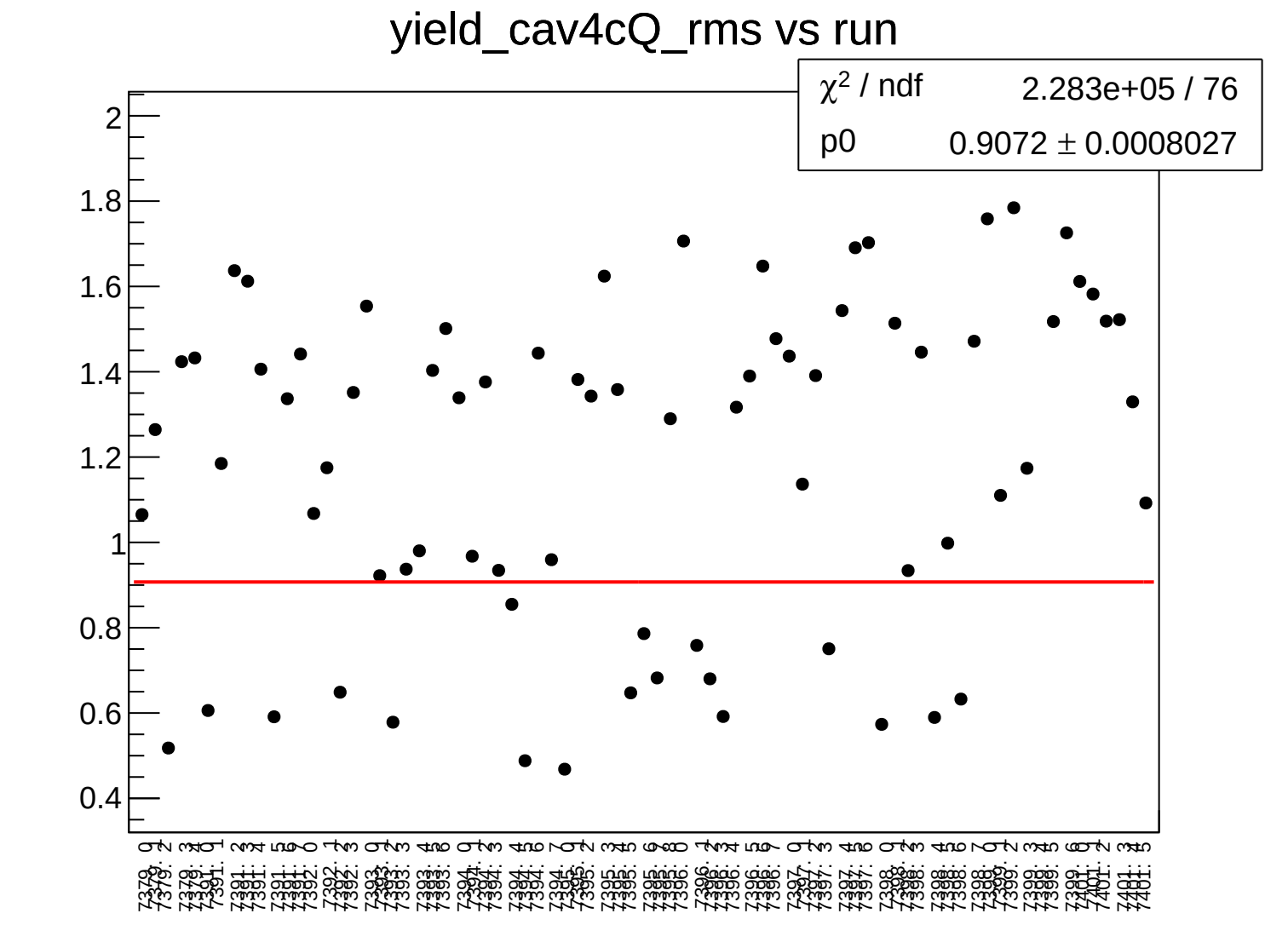

yield_cav4bQ_mean vs run
χ² / ndf 4.413e+05 / 76
p0 148.4 ± 0.0008782
149.5
149
148.5
148
147.5
147
146.5
pull
Entries 77
Mean −89.45
Std Dev 131.5
200
150
100
50
0
−50
−100
−150
−200

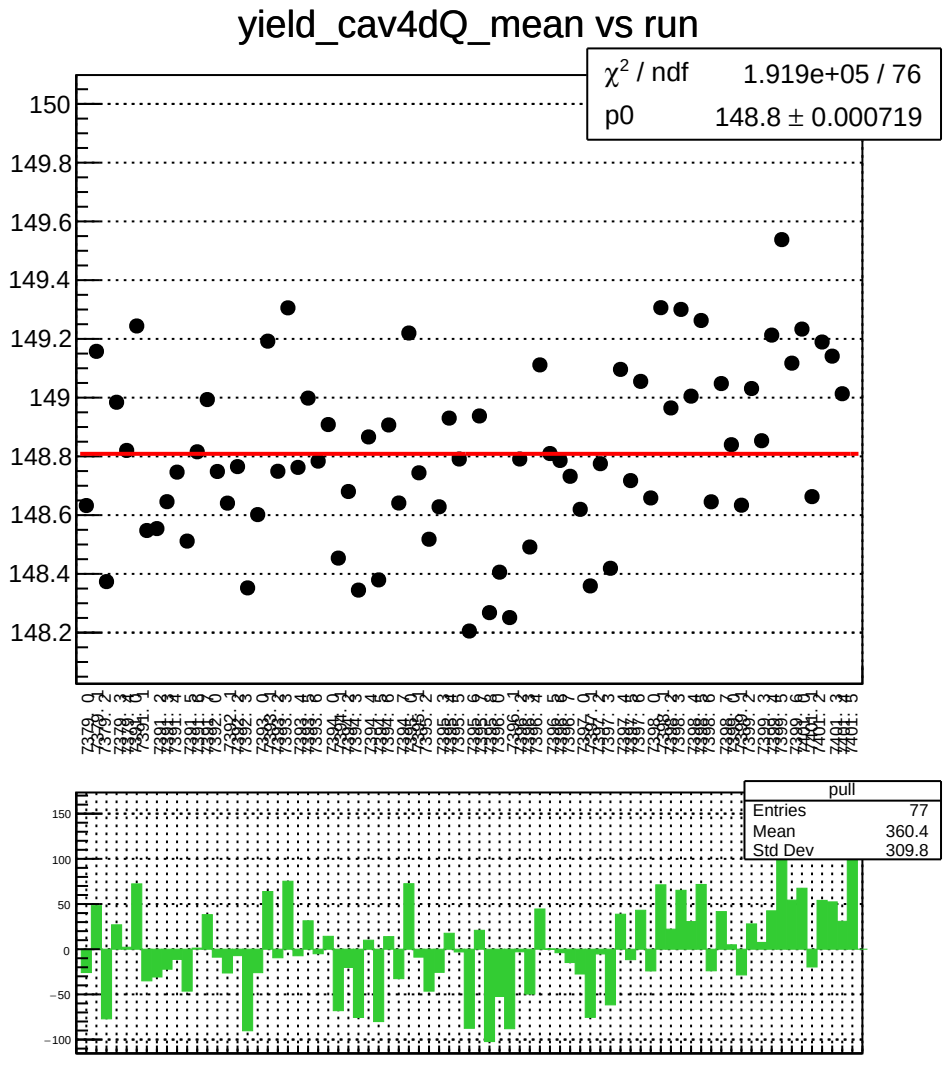

pull1D
Entries 77
Mean −1.564
Std Dev 3.896
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

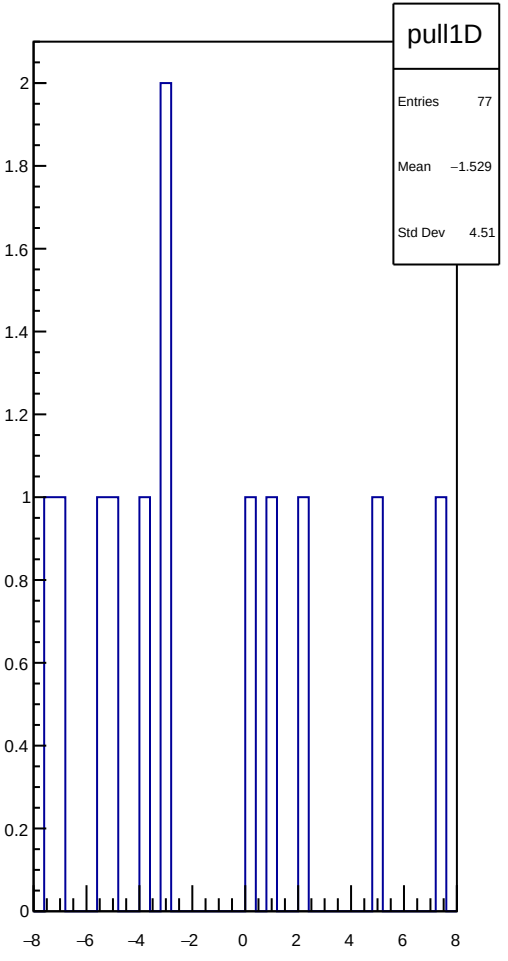

yield_cav4bQ_rms vs run
χ^2 / ndf 1.013e+05 / 76
p0 0.7358 ± 0.000621
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

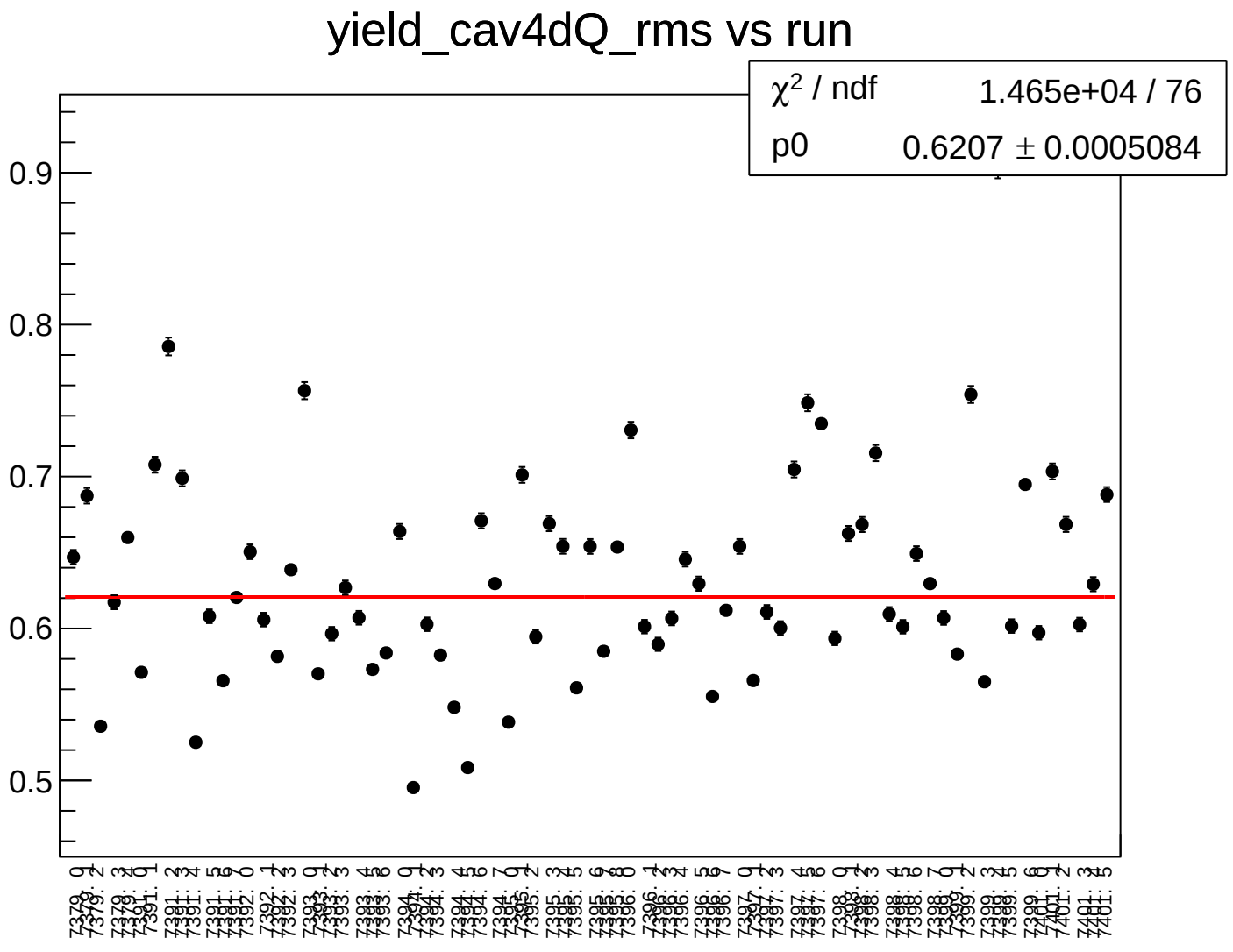

yield_cav4cQ_mean vs run
χ² / ndf 1.279e+06 / 76
p0 148.2 ± 0.001135
151
150
149
148
147
pull
Entries 77
Mean 61
Std Dev 7.513
500
400
300
200
100
0
−100
−200

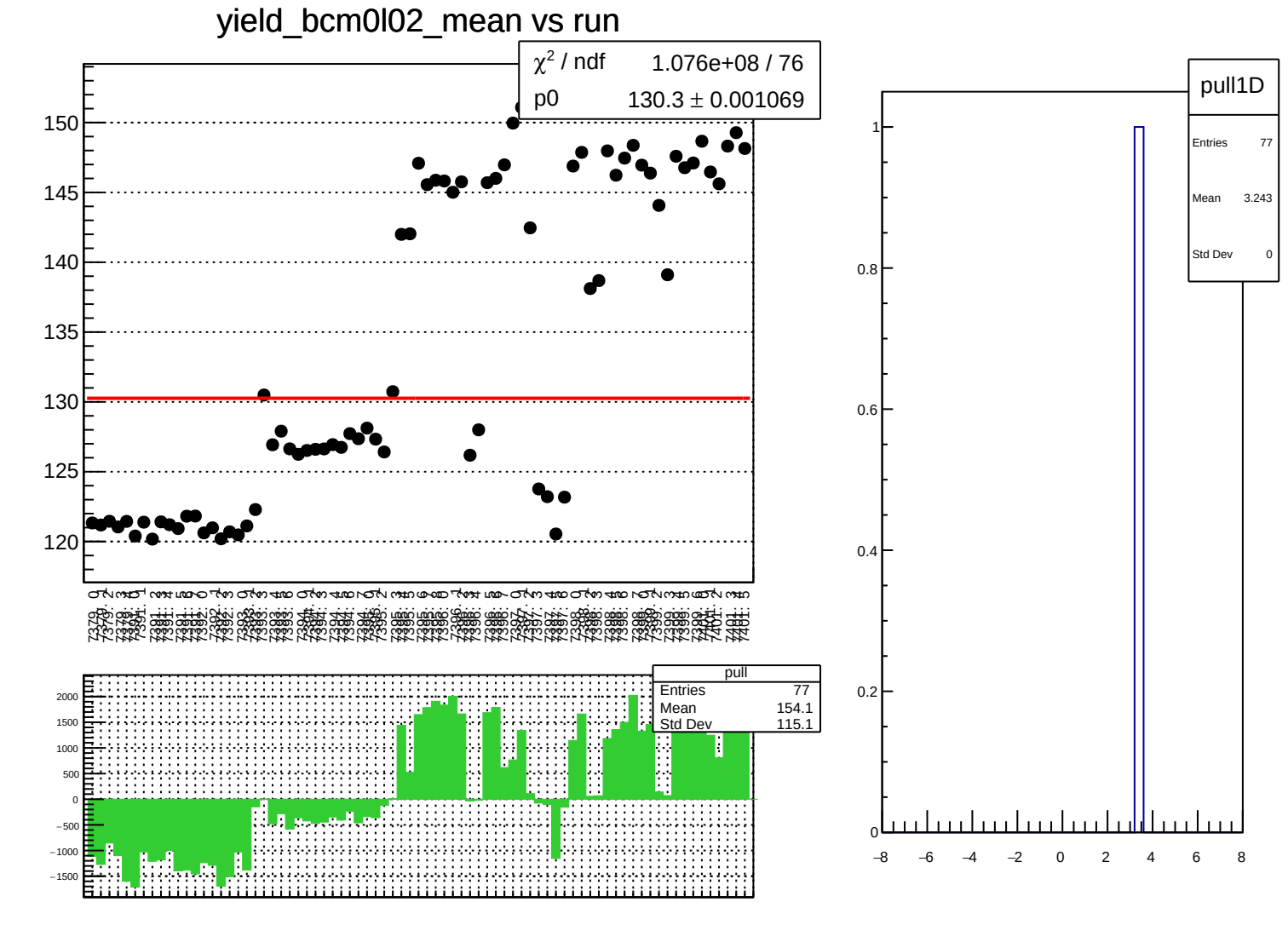

pull1D
Entries 77
Mean −0.942
Std Dev 4.888
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

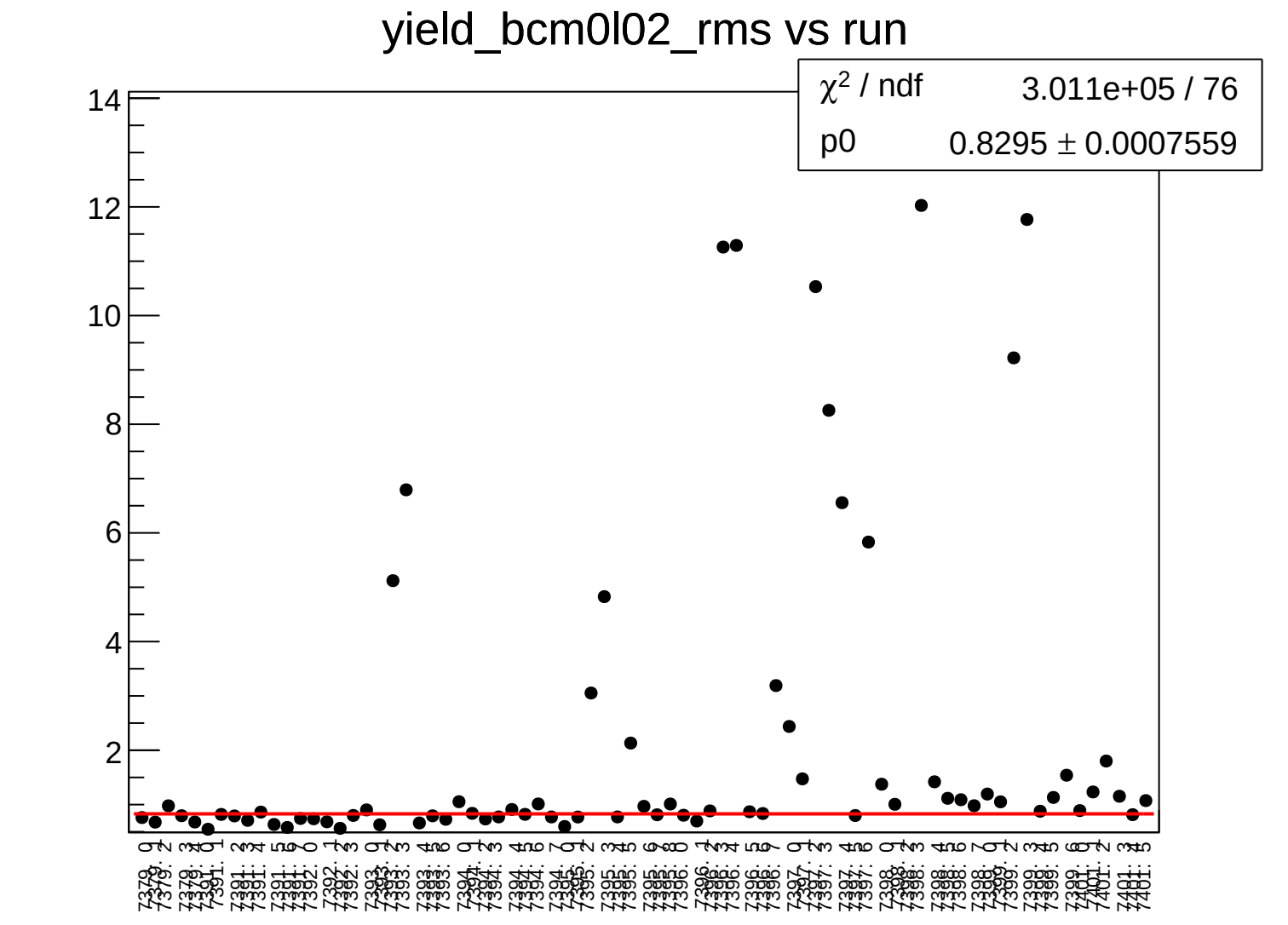

yield_cav4cQ_rms vs run
χ² / ndf 2.283e+05 / 76
p0 0.9072 ± 0.0008027
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

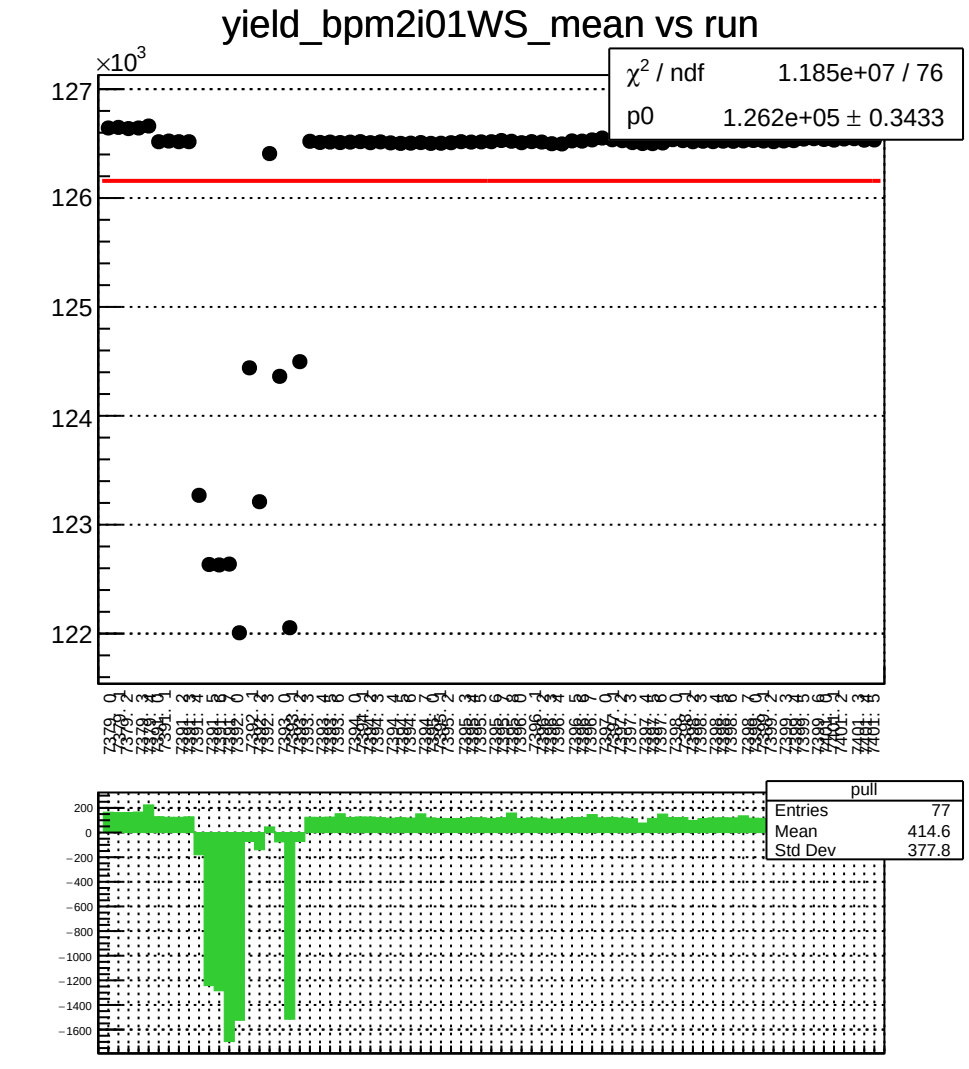

yield_cav4dQ_mean vs run
χ^2 / ndf 1.919e+05 / 76
p0 148.8 ± 0.000719
150
149.8
149.6
149.4
149.2
149
148.8
148.6
148.4
148.2
pull
Entries 77
Mean 360.4
Std Dev 309.8
150
100
50
0
−50
−100

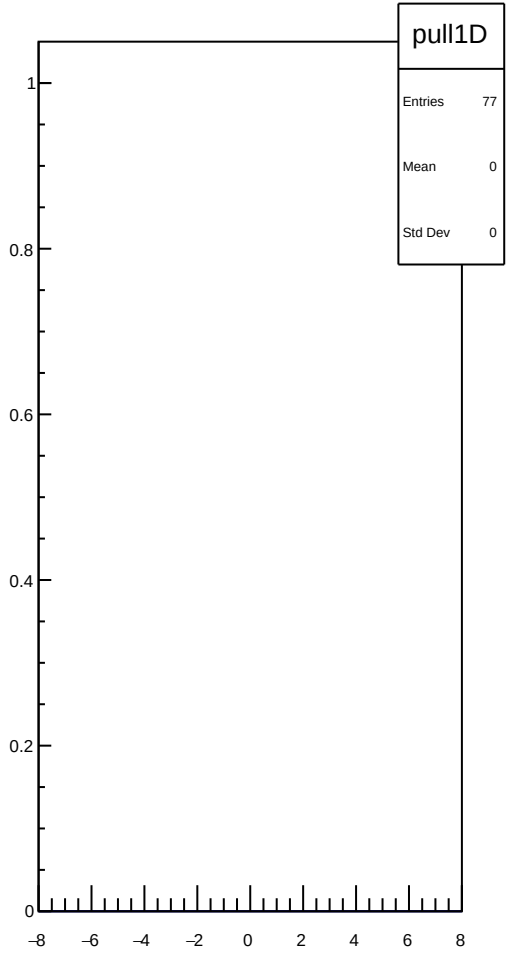

pull1D
Entries 77
Mean −1.529
Std Dev 4.51
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

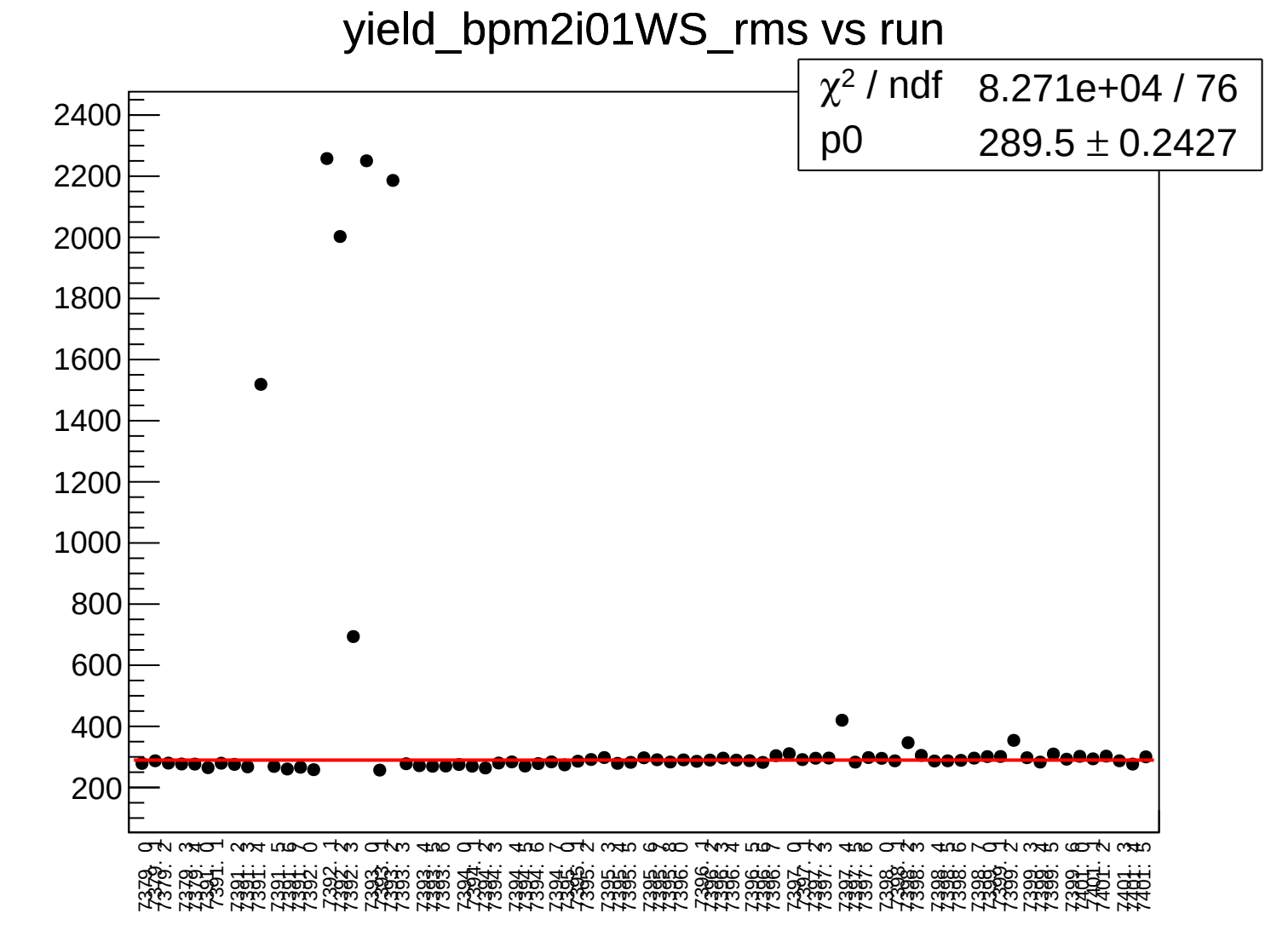

yield_cav4dQ_rms vs run
χ² / ndf 1.465e+04 / 76
p0 0.6207 ± 0.0005084
0.9
0.8
0.7
0.6
0.5

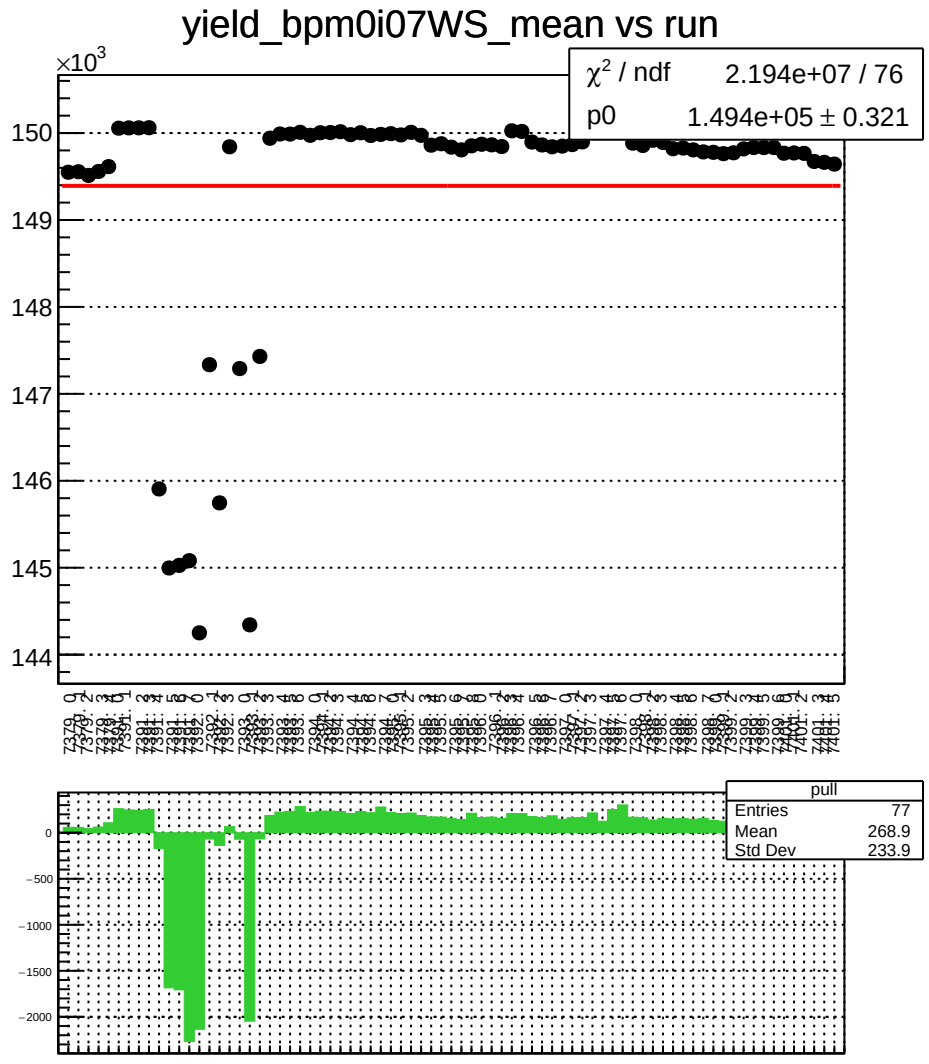

yield_bcm0l02_mean vs run
χ² / ndf 1.076e+08 / 76
p0 130.3 ± 0.001069
150
145
140
135
130
125
120
pull
Entries 77
Mean 154.1
Std Dev 115.1
2000
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 77
Mean 3.243
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

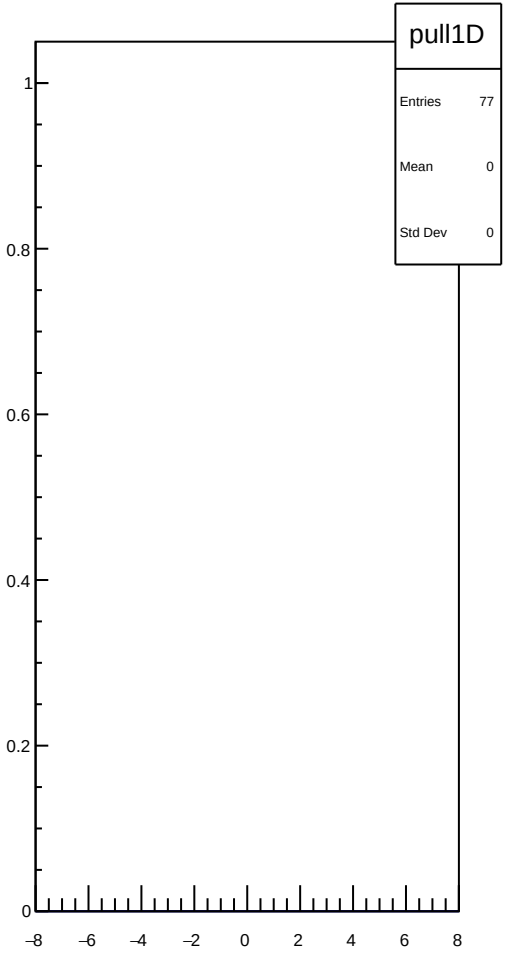

yield_bcm0l02_rms vs run
χ² / ndf 3.011e+05 / 76
p0 0.8295 ± 0.0007559
14
12
10
8
6
4
2

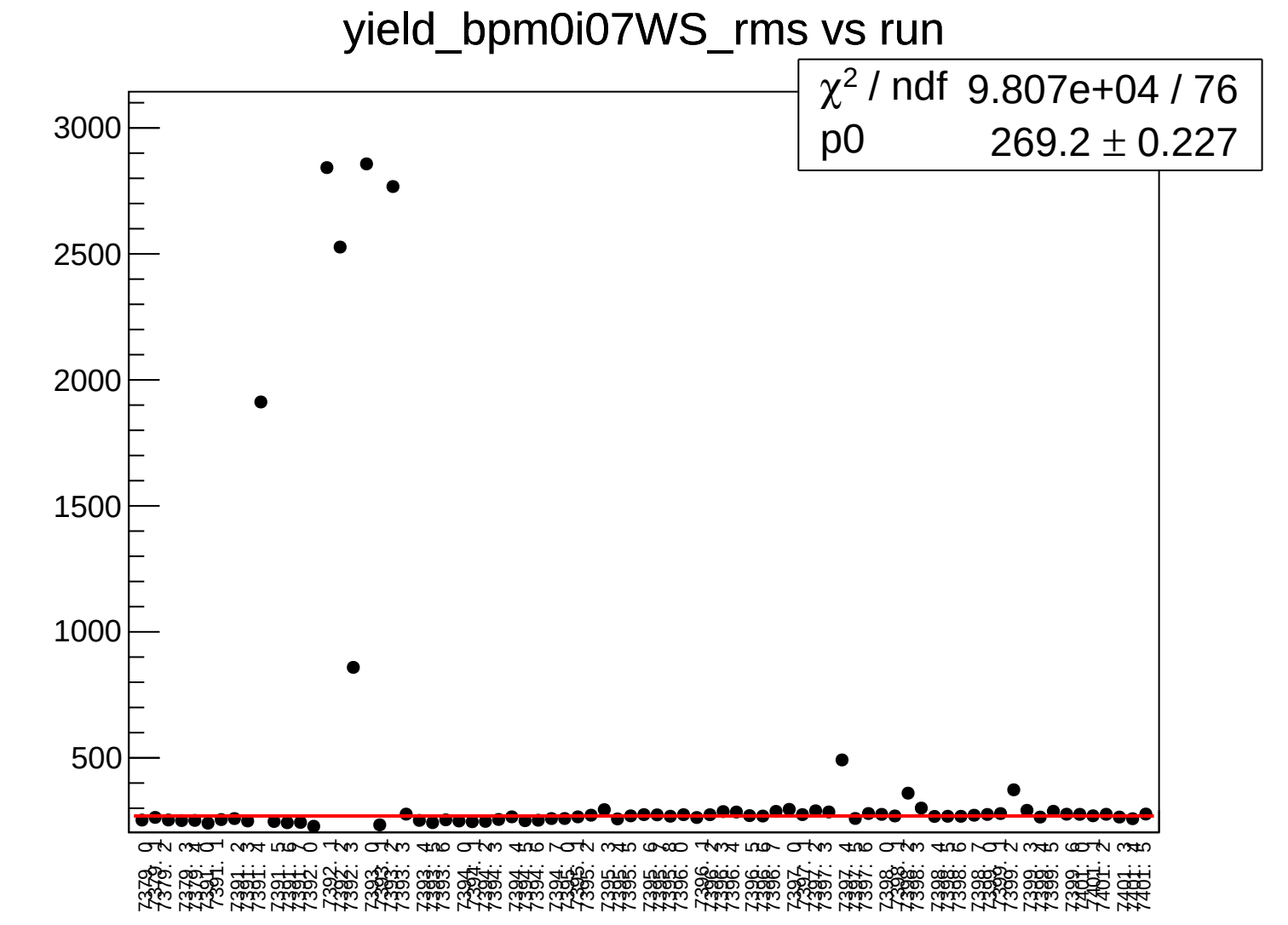

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.185e+07 / 76
p0 1.262e+05 ± 0.3433
127
126
125
124
123
122
pull
Entries 77
Mean 414.6
Std Dev 377.8
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

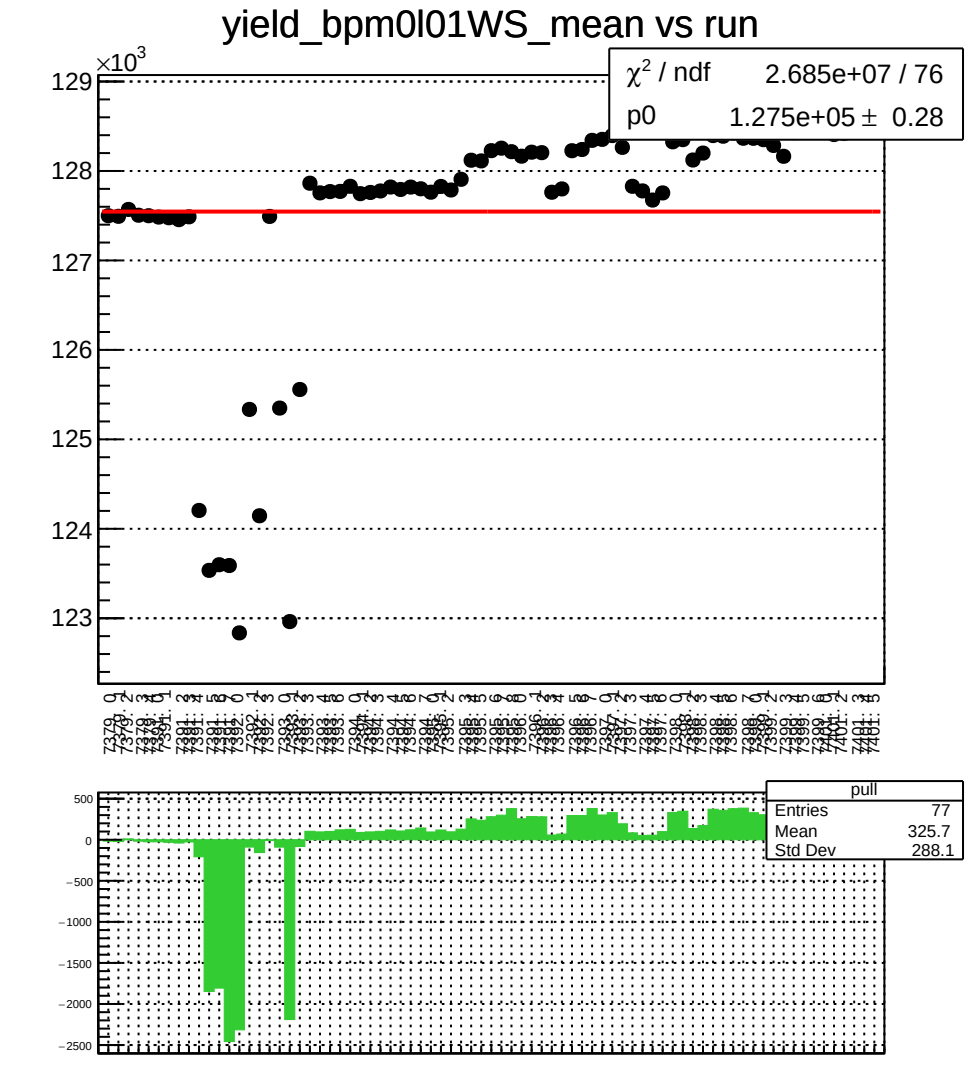

pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

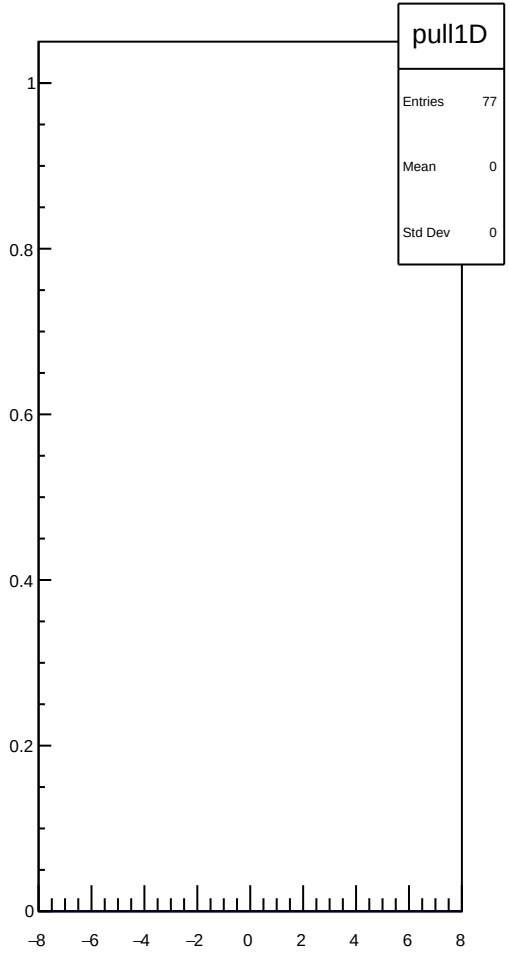

yield_bpm2i01WS_rms vs run
χ² / ndf 8.271e+04 / 76
p0 289.5 ± 0.2427
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

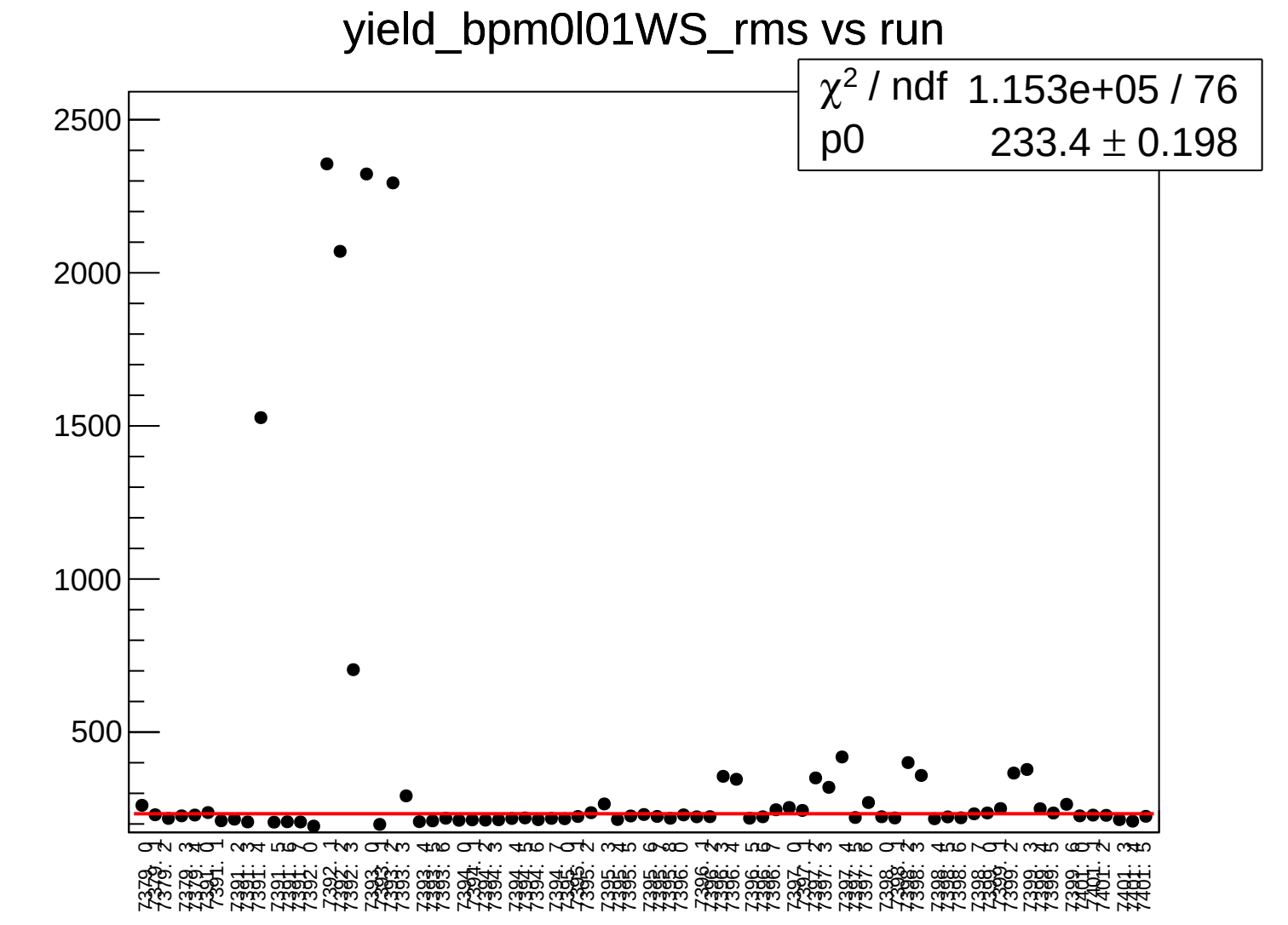

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 2.194e+07 / 76
p0 1.494e+05 ± 0.321
150
149
148
147
146
145
144
pull
Entries 77
Mean 268.9
Std Dev 233.9
0
−500
−1000
−1500
−2000

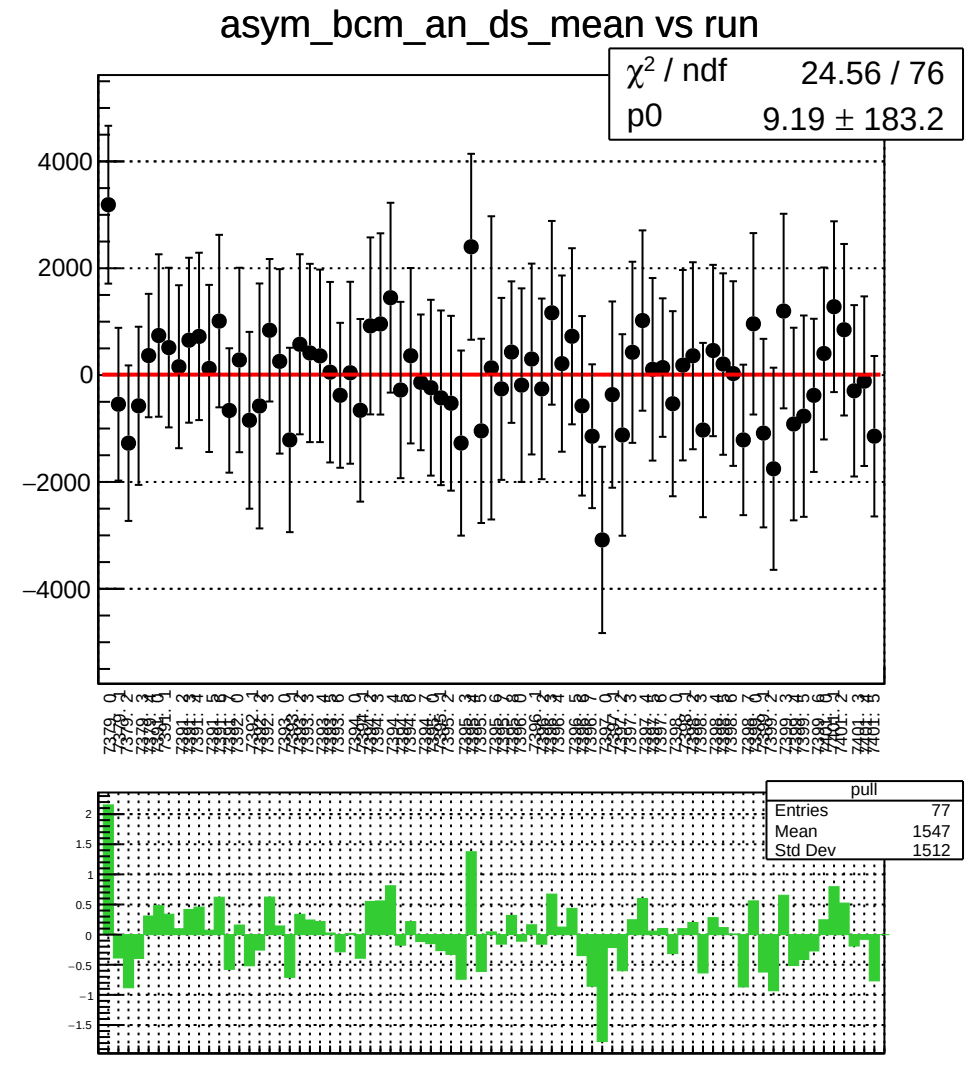

pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

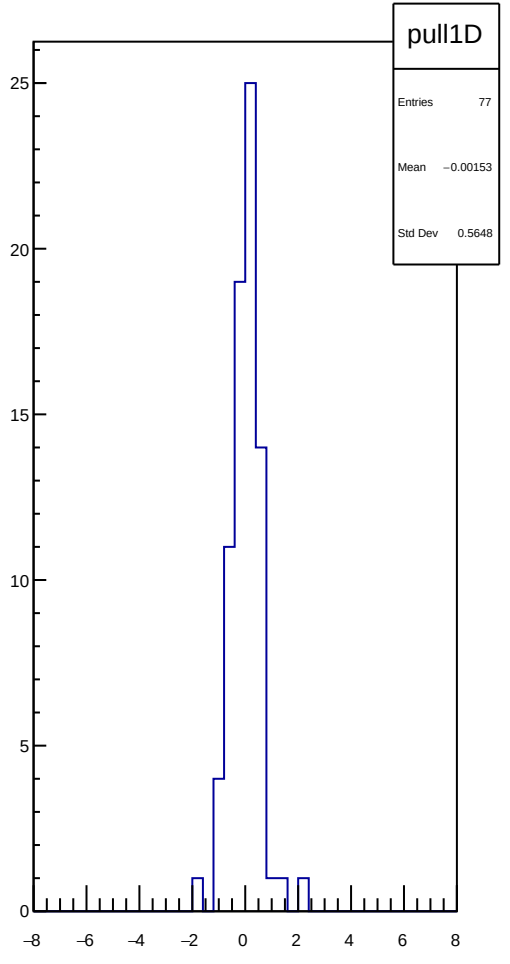

yield_bpm0i07WS_rms vs run
χ^2 / ndf 9.807e+04 / 76
p0 269.2 ± 0.227
3000
2500
2000
1500
1000
500

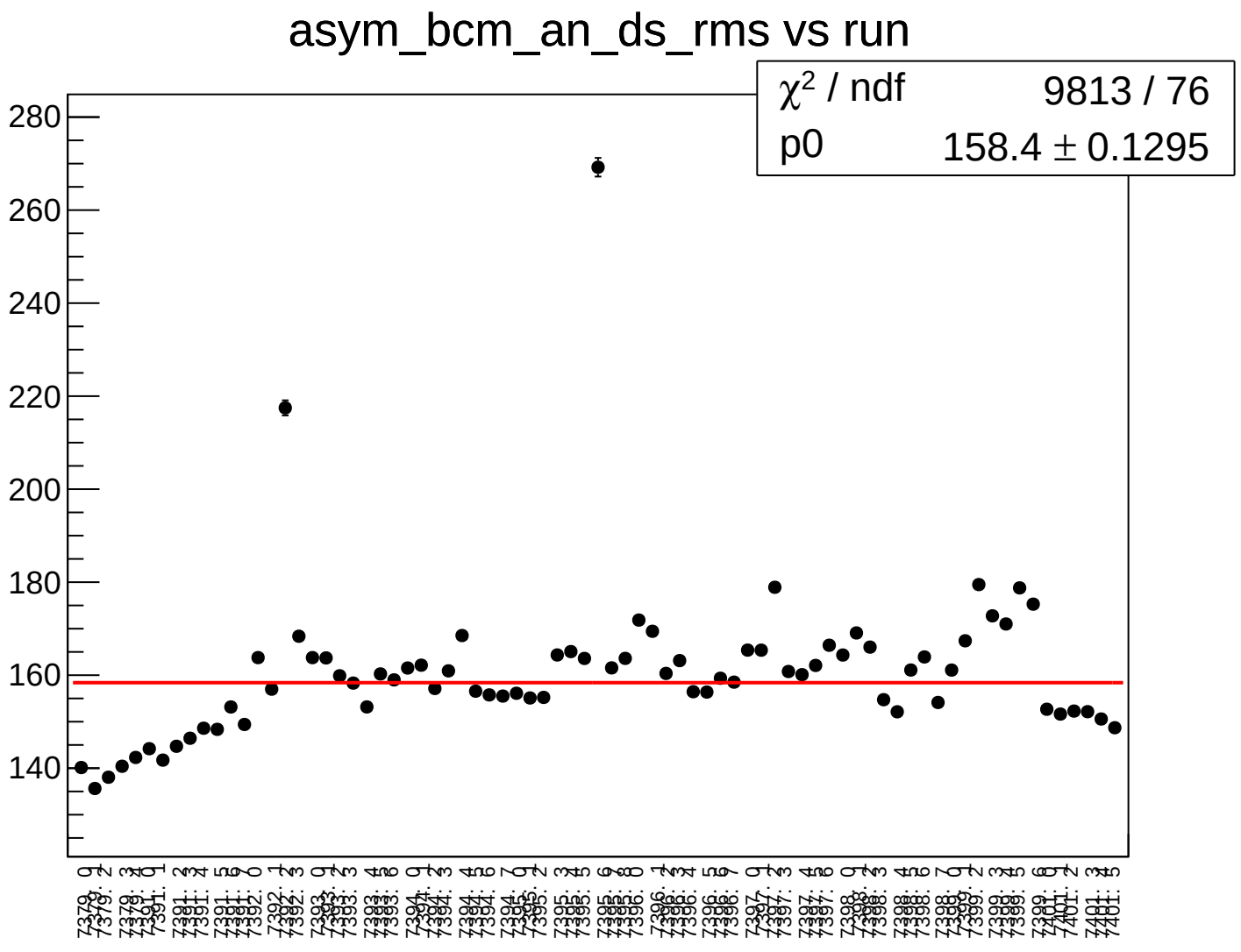

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.685e+07 / 76
p0 1.275e+05 ± 0.28
129
128
127
126
125
124
123
pull
Entries 77
Mean 325.7
Std Dev 288.1
500
0
−500
−1000
−1500
−2000
−2500

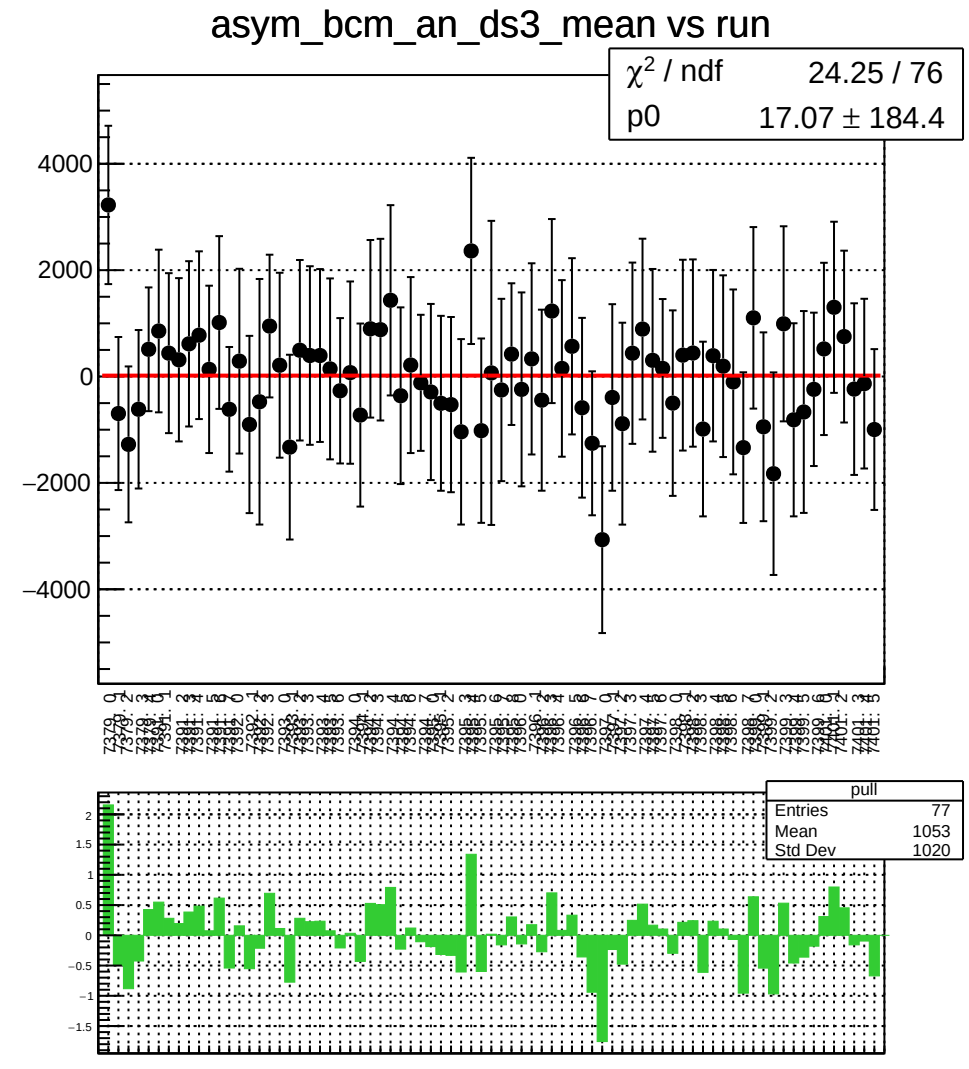

pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

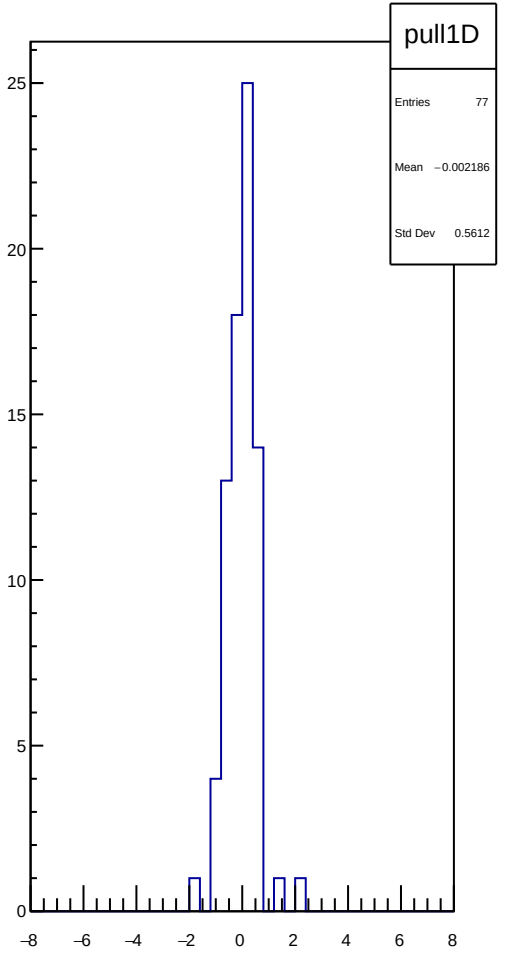

yield_bpm0l01WS_rms vs run
χ² / ndf 1.153e+05 / 76
p0 233.4 ± 0.198
2500
2000
1500
1000
500

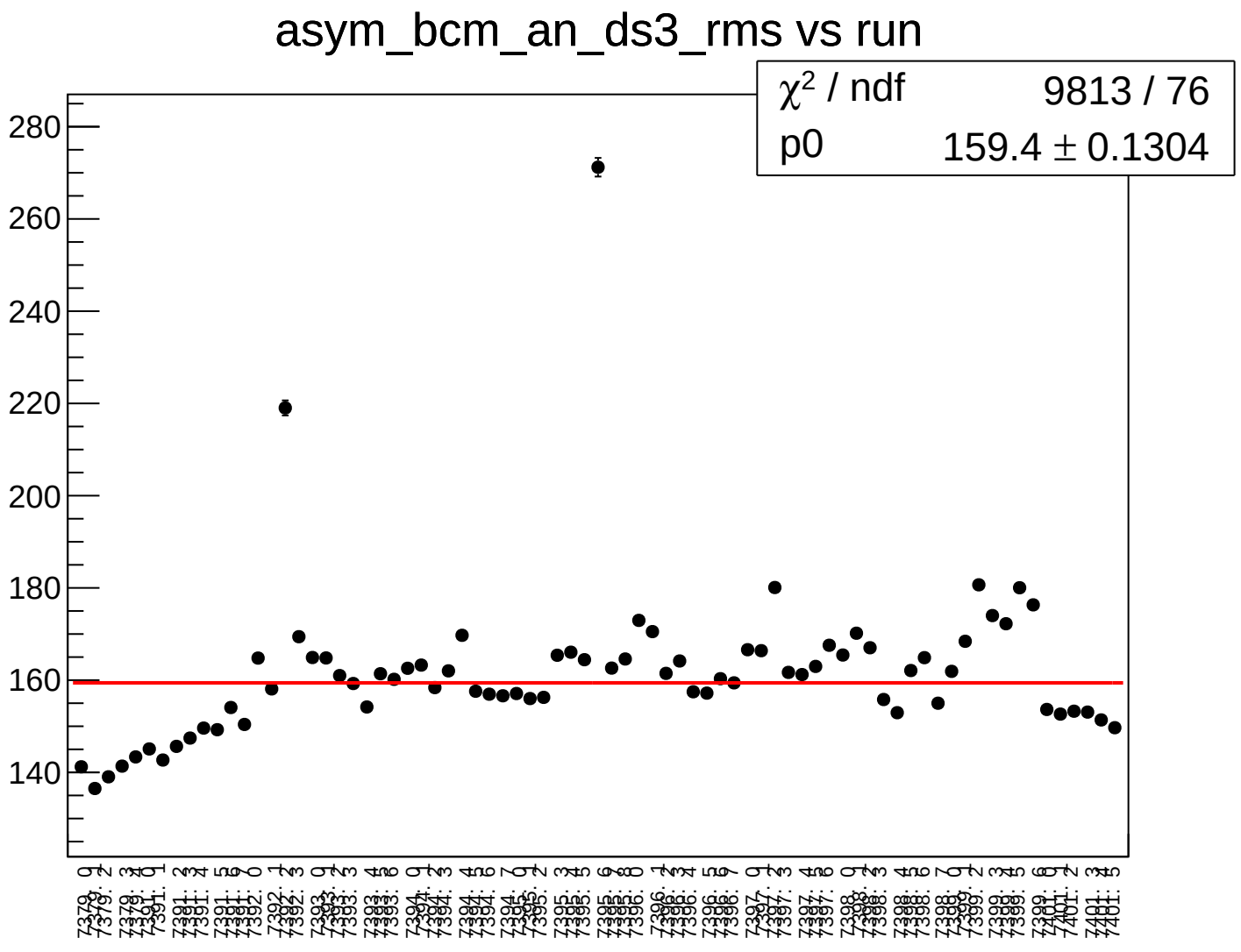

asym_bcm_an_ds_mean vs run
χ² / ndf 24.56 / 76
p0 9.19 ± 183.2
4000
2000
0
−2000
−4000
pull
Entries 77
Mean 1547
Std Dev 1512
2
1.5
1
0.5
0
−0.5
−1
−1.5

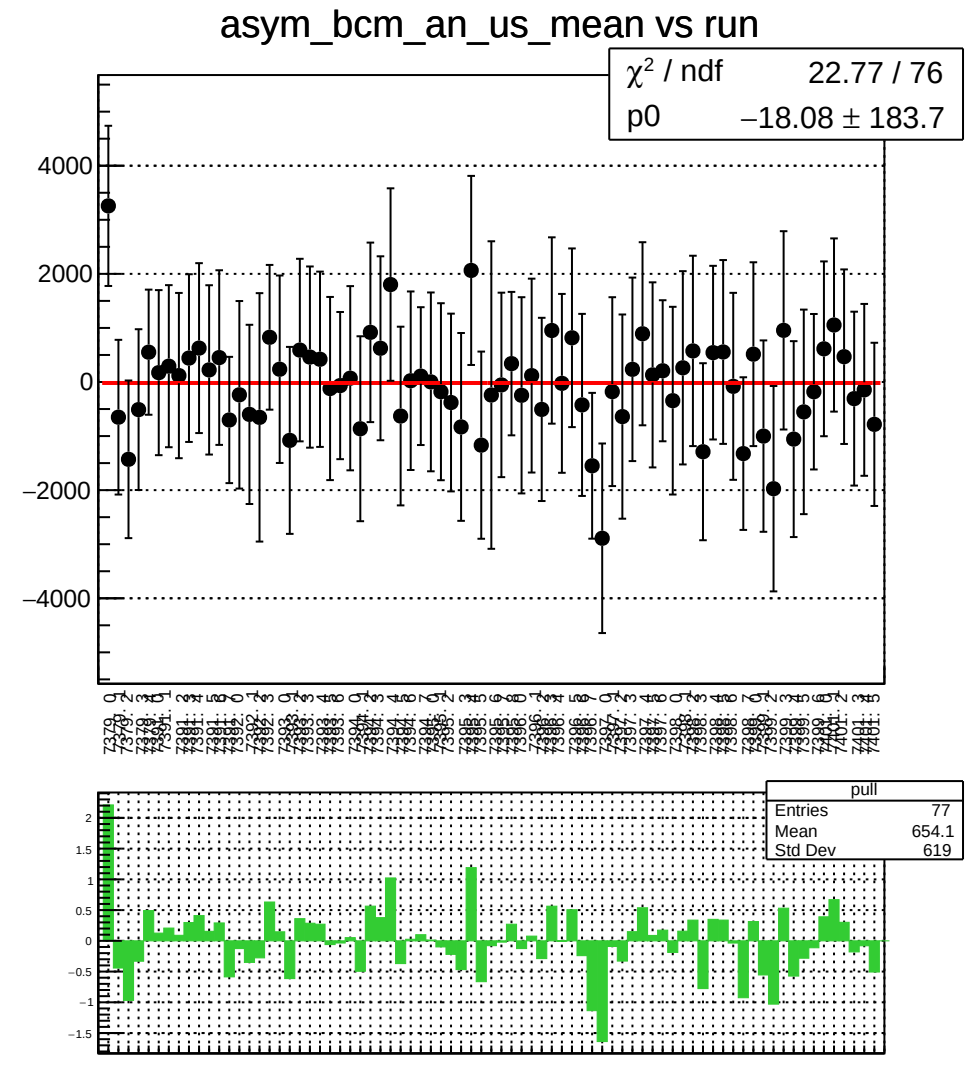

pull1D
Entries 77
Mean −0.00153
Std Dev 0.5648
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

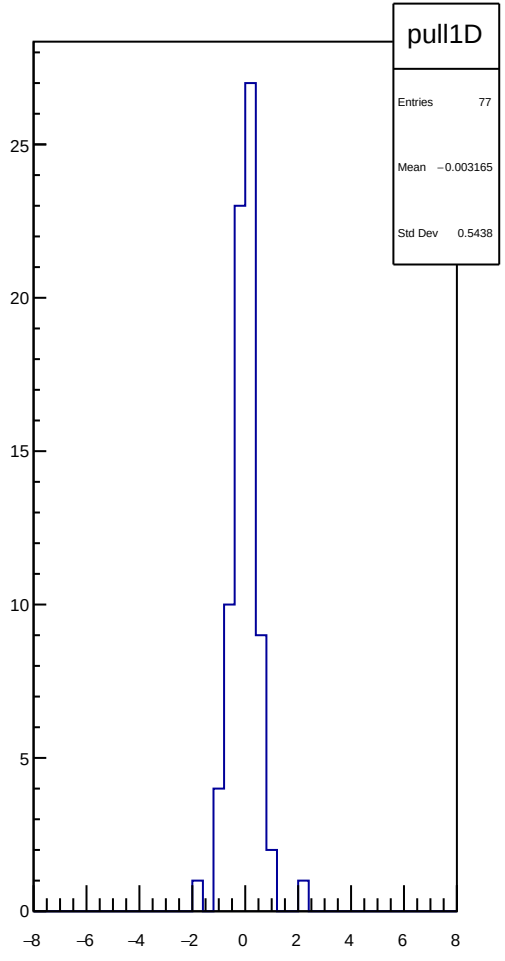

asym_bcm_an_ds_rms vs run
χ² / ndf 9813 / 76
p0 158.4 ± 0.1295
280
260
240
220
200
180
160
140

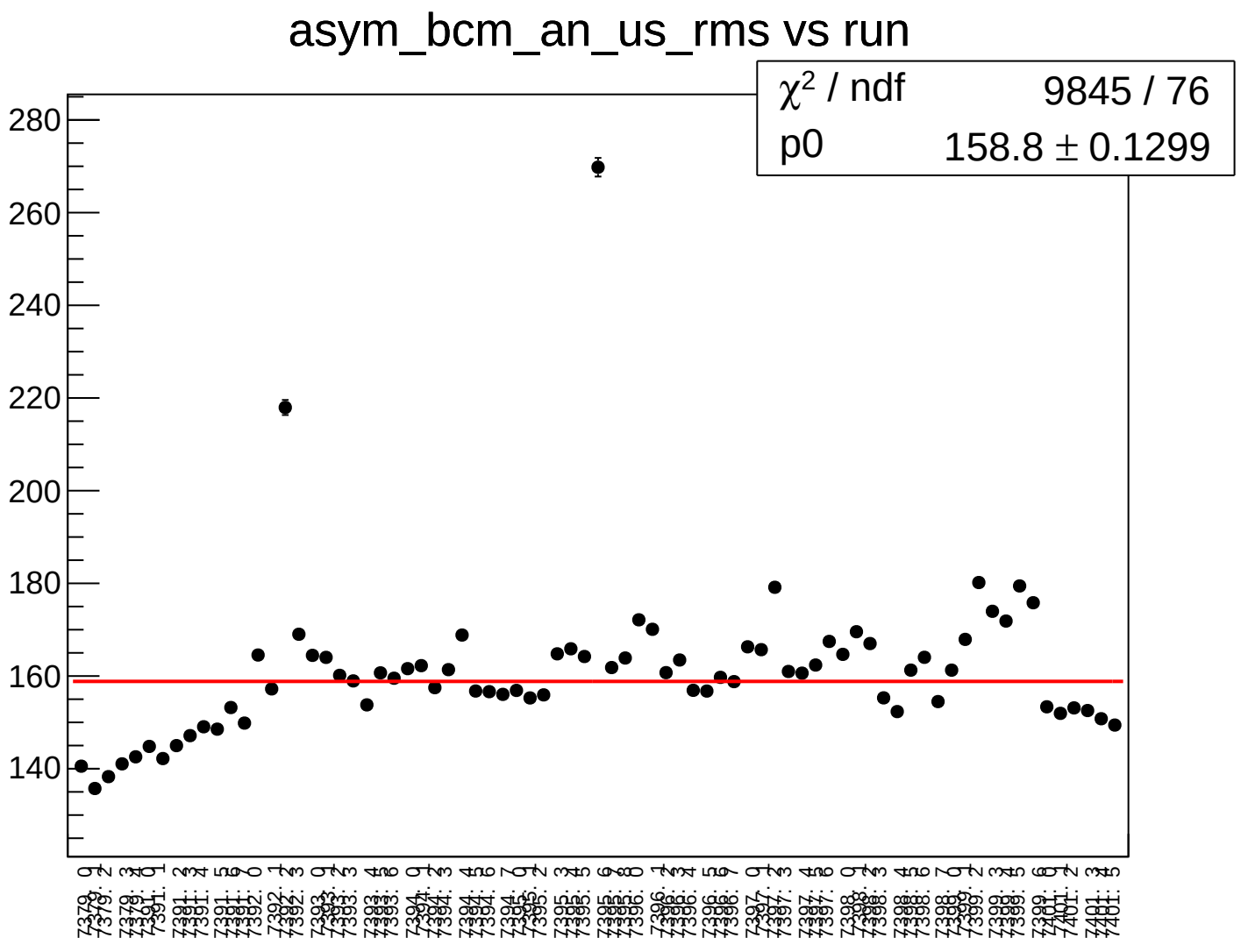

asym_bcm_an_ds3_mean vs run
χ² / ndf 24.25 / 76
p0 17.07 ± 184.4
4000
2000
0
−2000
−4000
pull
Entries 77
Mean 1053
Std Dev 1020
2
1.5
1
0.5
0
−0.5
−1
−1.5

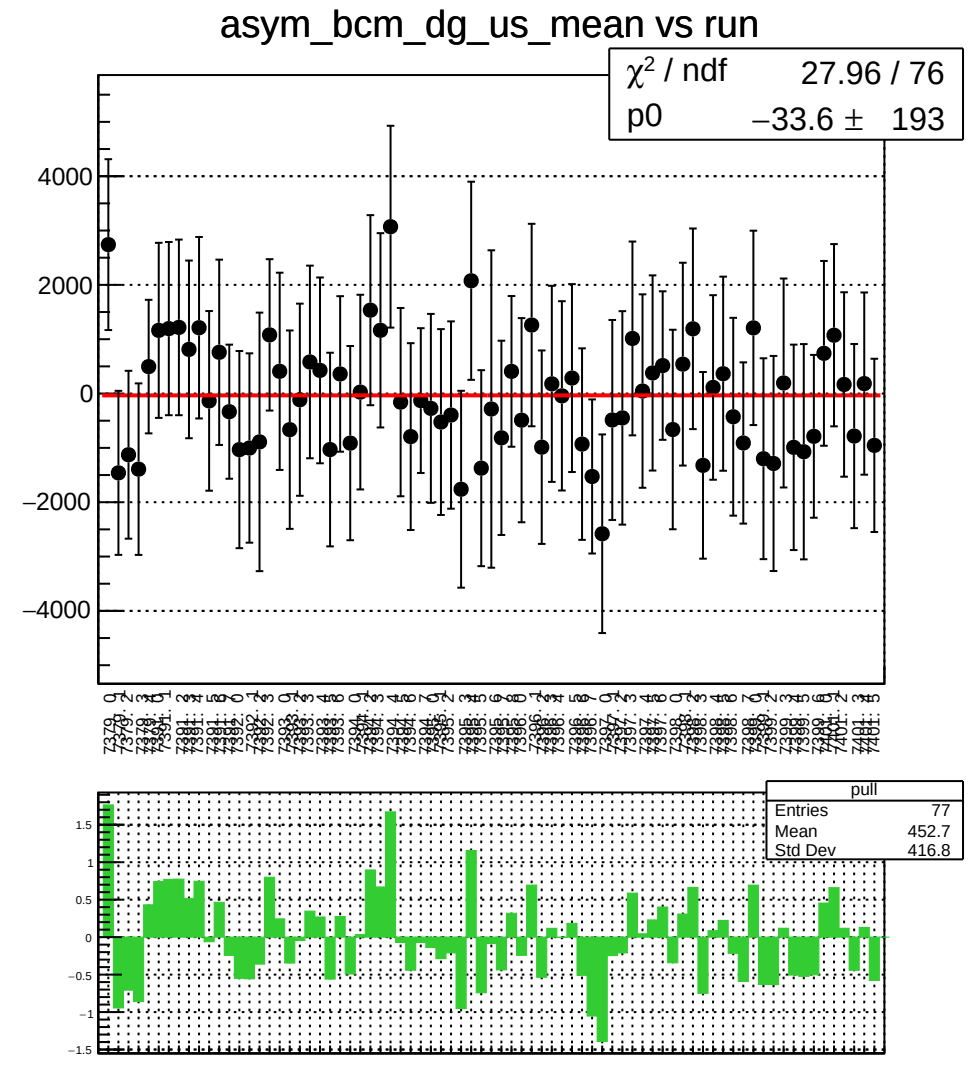

pull1D
Entries 77
Mean −0.002186
Std Dev 0.5612
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

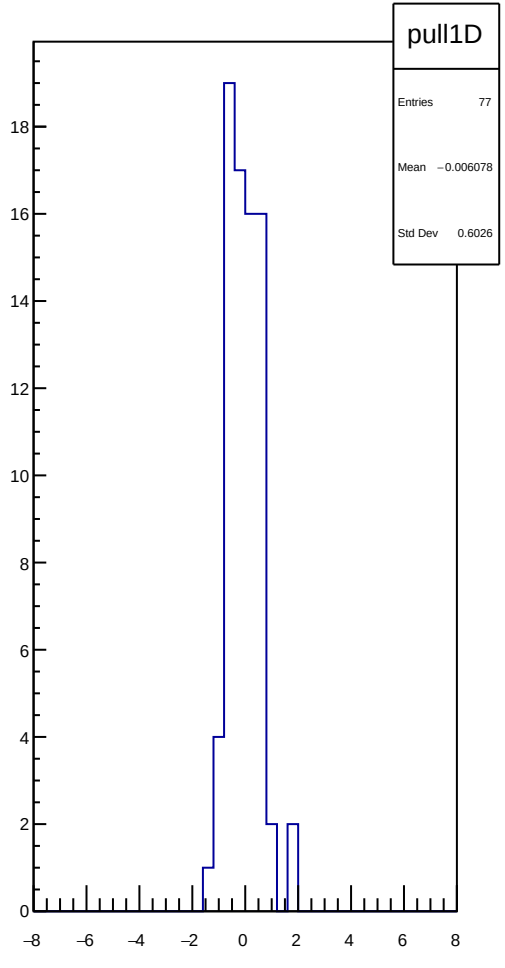

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 9813 / 76
p0 159.4 ± 0.1304
280
260
240
220
200
180
160
140

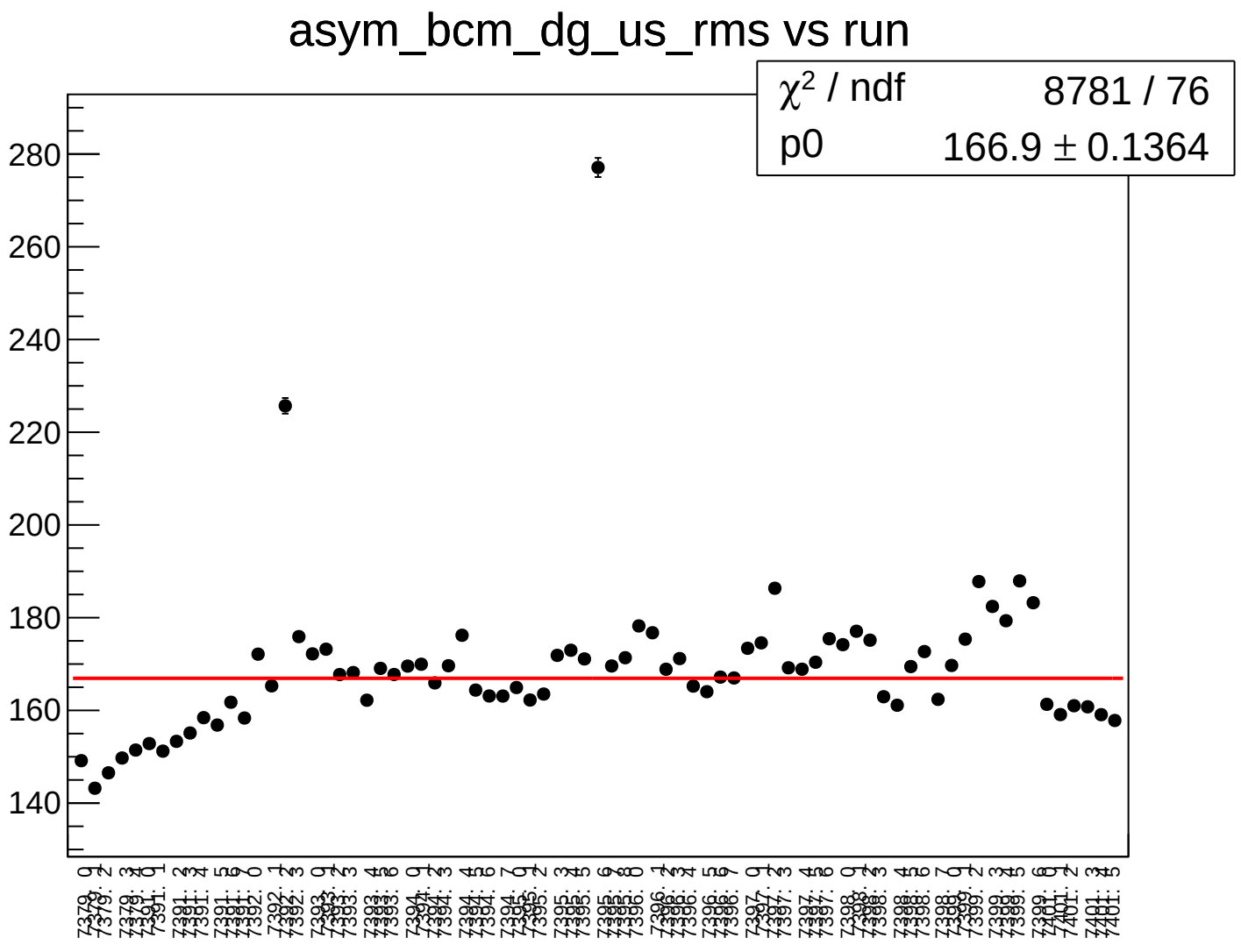

asym_bcm_an_us_mean vs run
χ² / ndf 22.77 / 76
p0 −18.08 ± 183.7
4000
2000
0
−2000
−4000
pull
Entries 77
Mean 654.1
Std Dev 619
2
1.5
1
0.5
0
−0.5
−1
−1.5

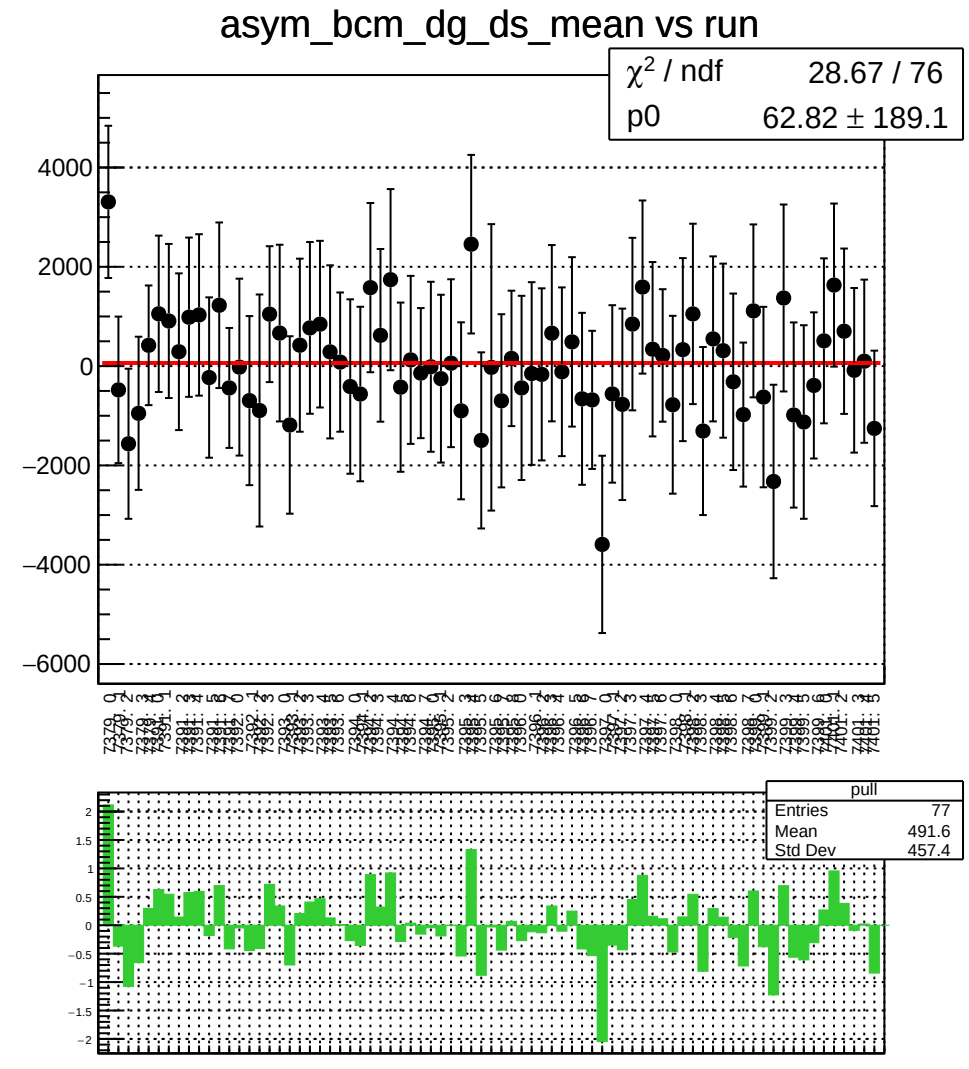

pull1D
Entries 77
Mean −0.003165
Std Dev 0.5438
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

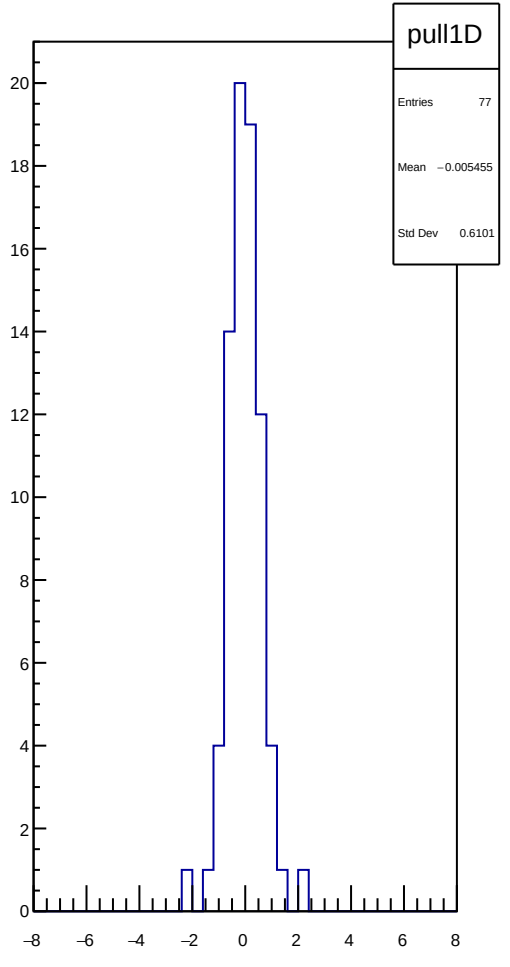

asym_bcm_an_us_rms vs run
χ^2 / ndf 9845 / 76
p0 158.8 ± 0.1299
280
260
240
220
200
180
160
140

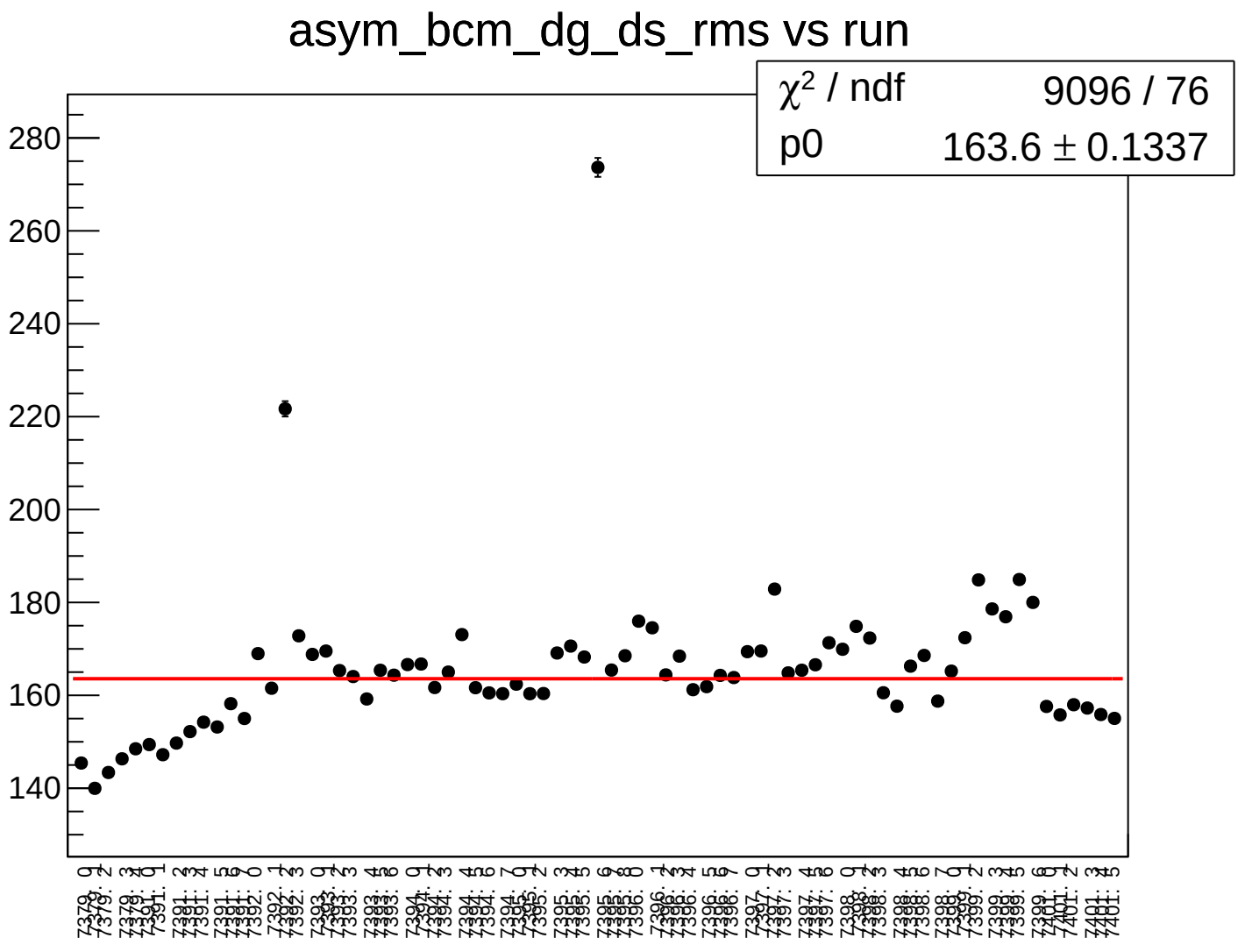

asym_bcm_dg_us_mean vs run
χ² / ndf 27.96 / 76
p0 −33.6 ± 193
4000
2000
0
−2000
−4000
pull
Entries 77
Mean 452.7
Std Dev 416.8
1.5
1
0.5
0
−0.5
−1
−1.5

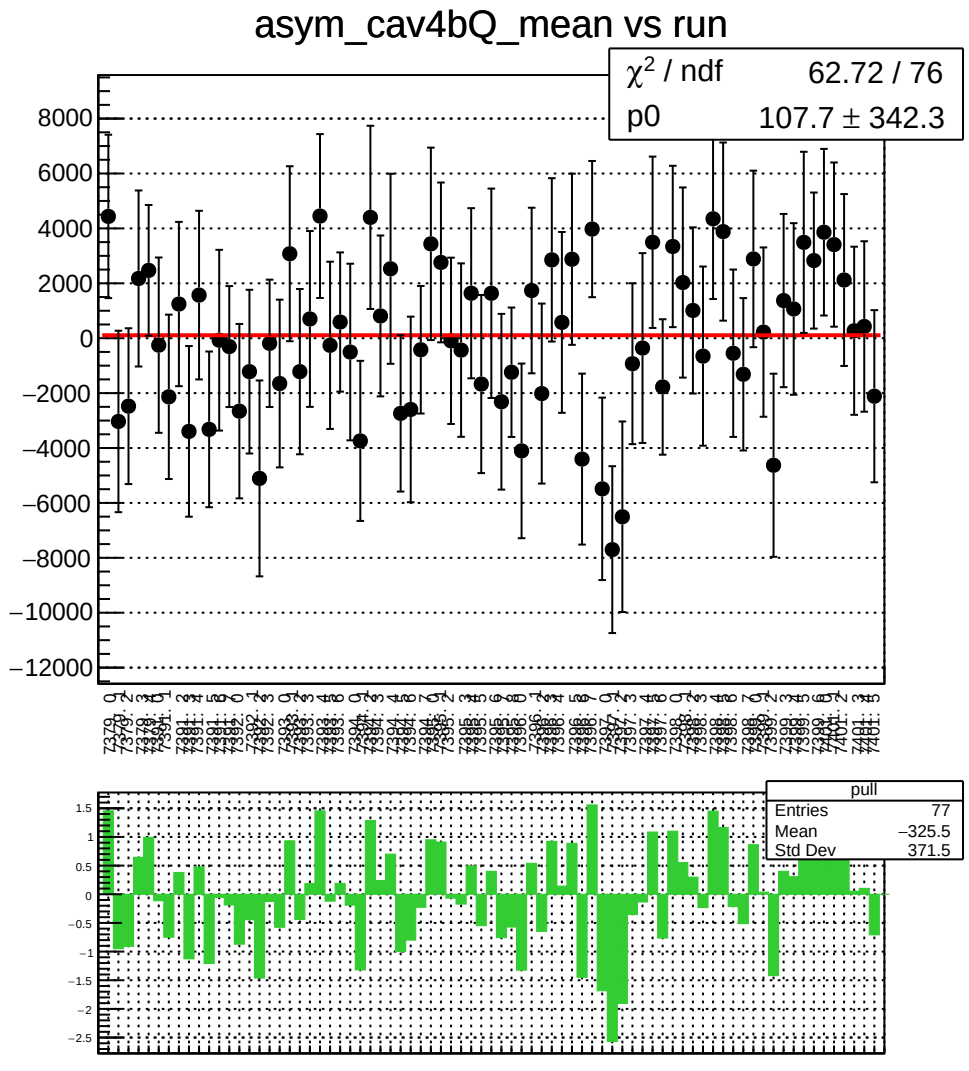

pull1D
Entries 77
Mean −0.006078
Std Dev 0.6026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

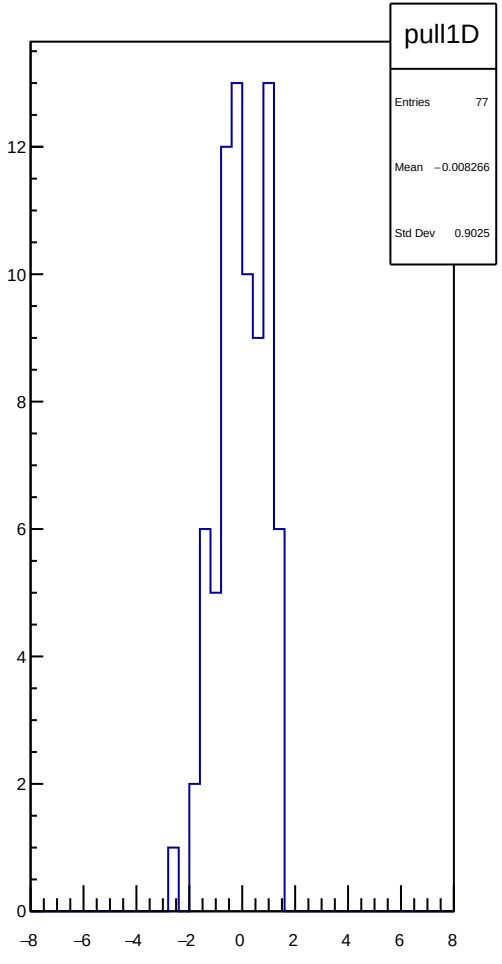

asym_bcm_dg_us_rms vs run
χ^2 / ndf 8781 / 76
p0 166.9 ± 0.1364
280
260
240
220
200
180
160
140

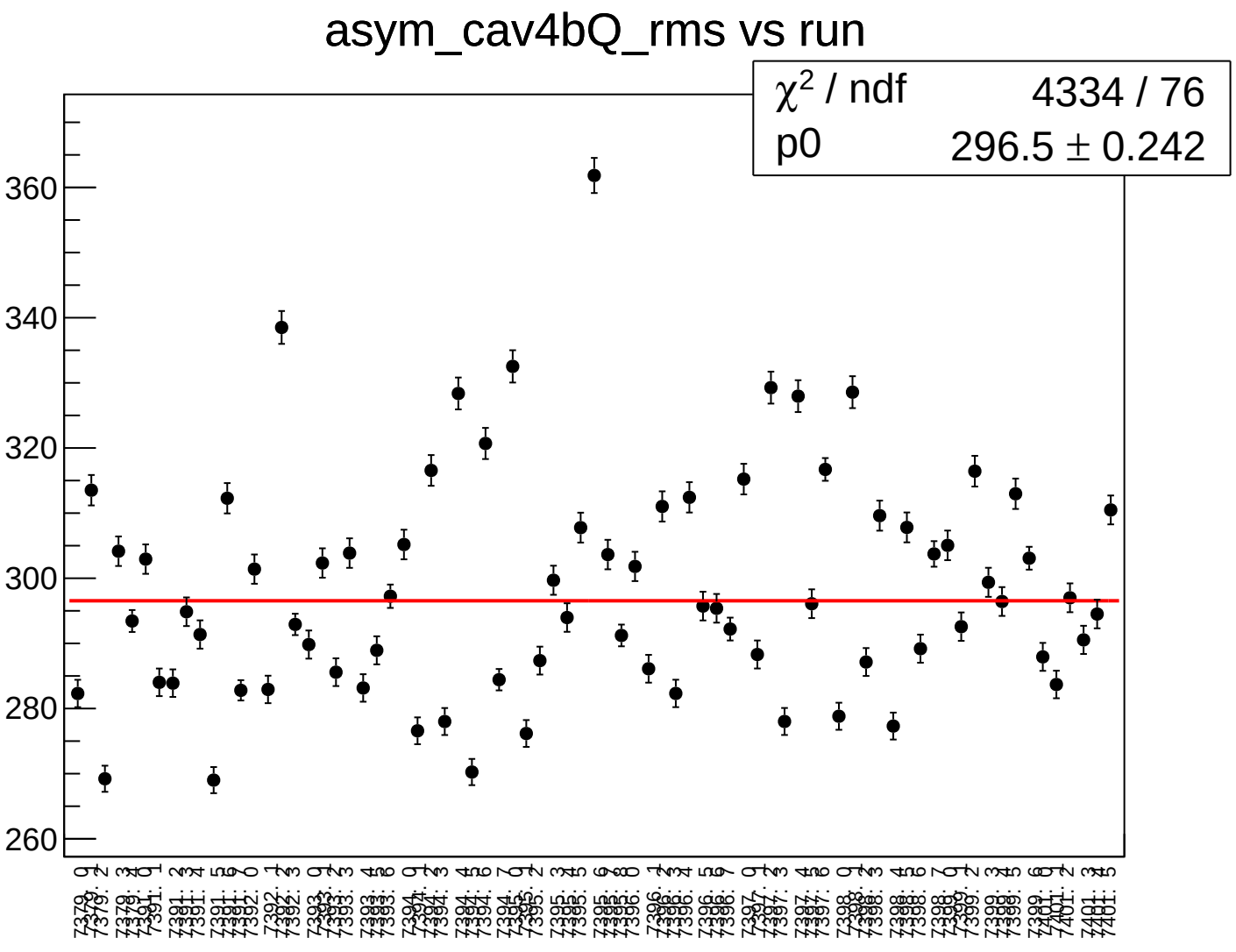

asym_bcm_dg_ds_mean vs run
χ² / ndf 28.67 / 76
p0 62.82 ± 189.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 77
Mean 491.6
Std Dev 457.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

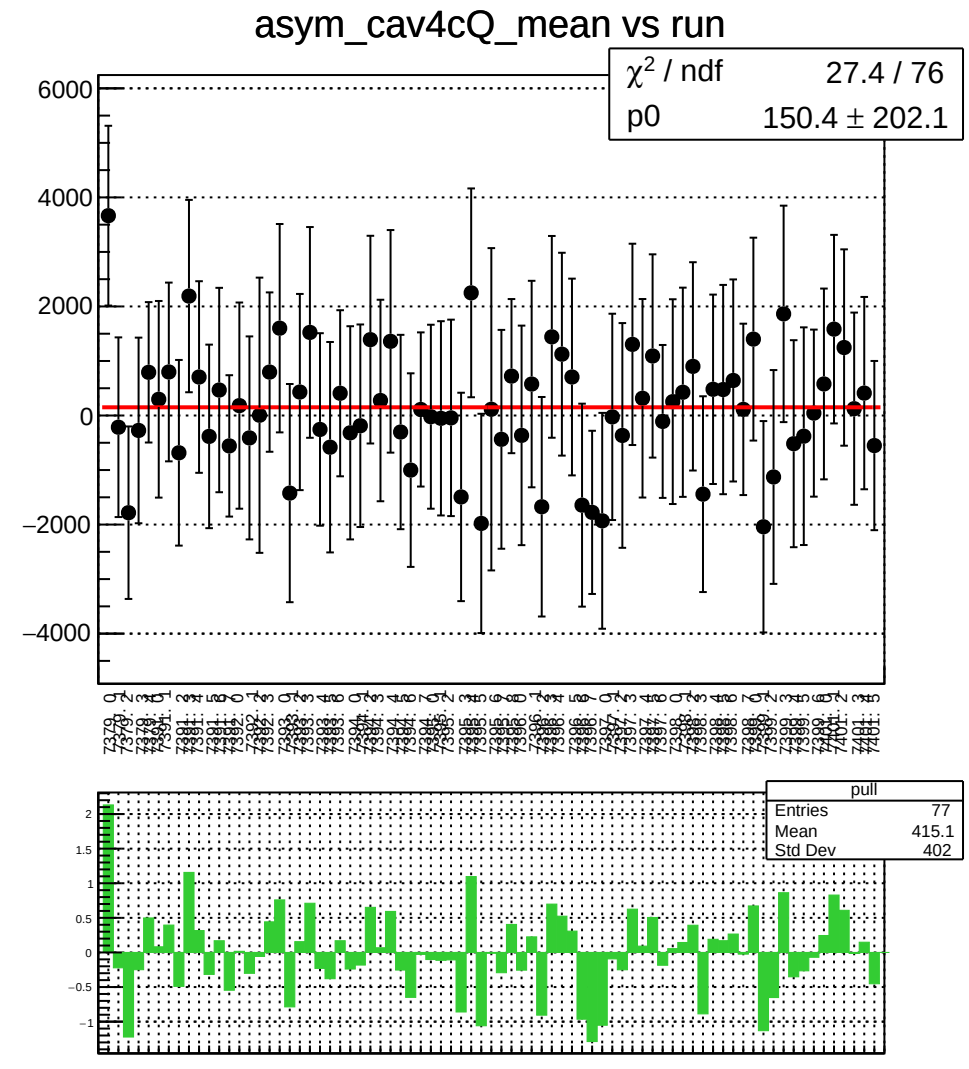

pull1D
Entries 77
Mean −0.005455
Std Dev 0.6101
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

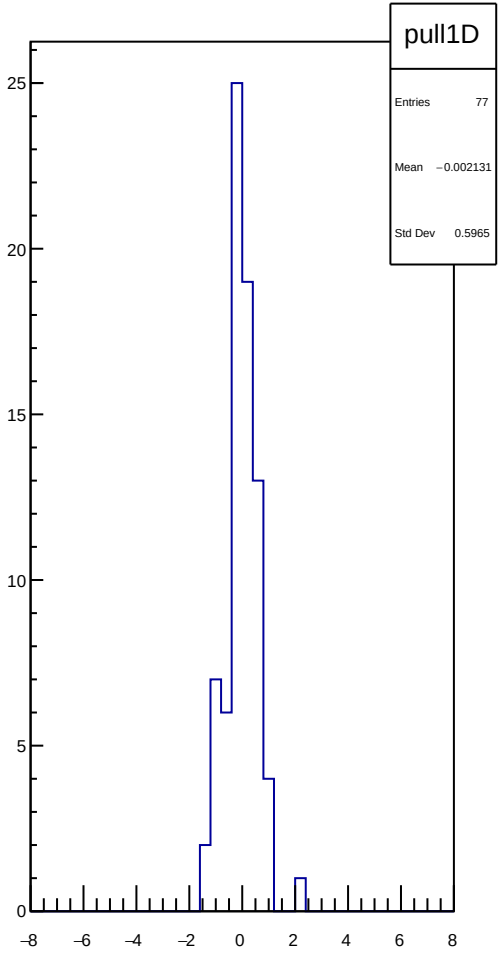

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 9096 / 76
p0 163.6 ± 0.1337
280
260
240
220
200
180
160
140

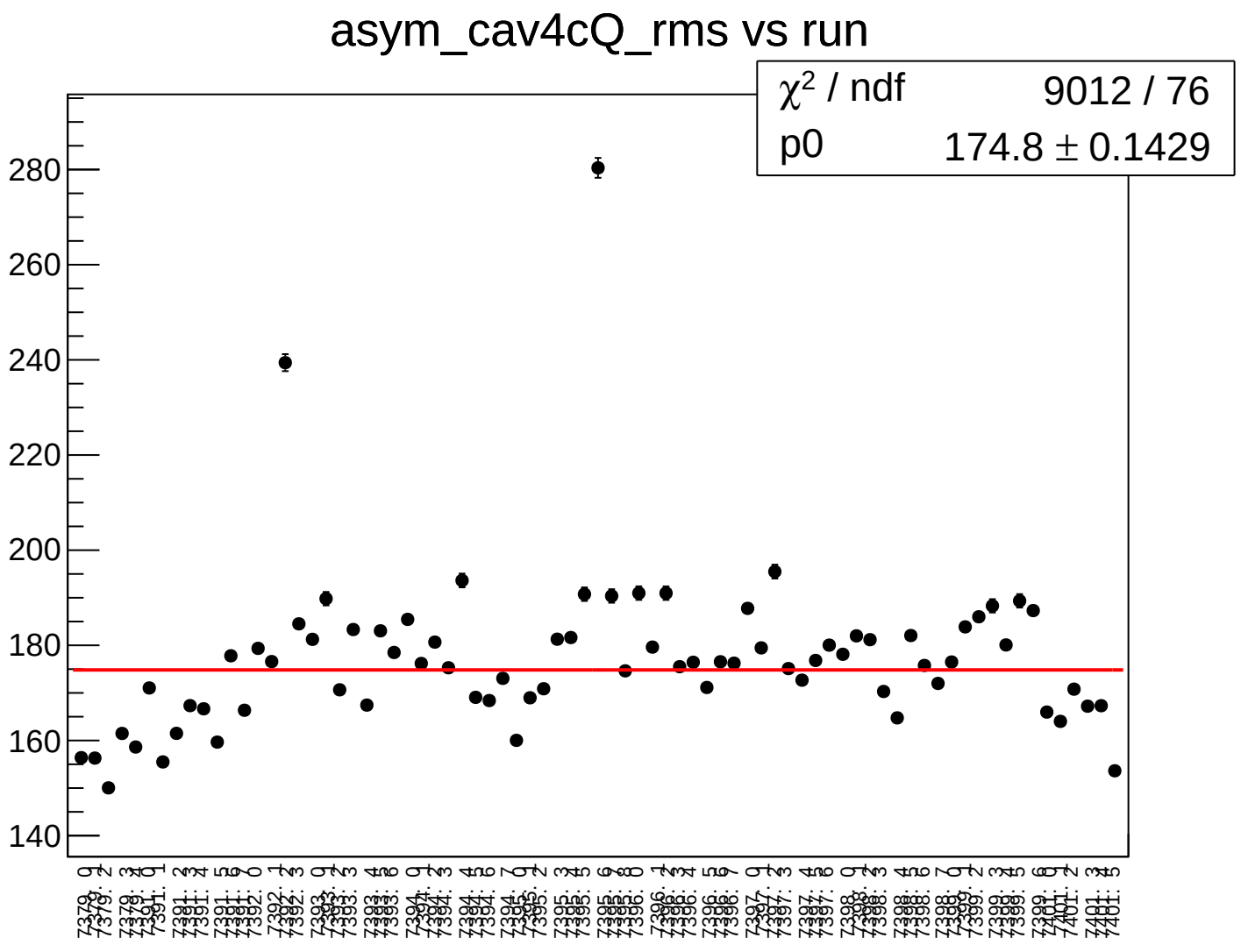

asym_cav4bQ_mean vs run
χ² / ndf 62.72 / 76
p0 107.7 ± 342.3
pull
Entries 77
Mean −325.5
Std Dev 371.5

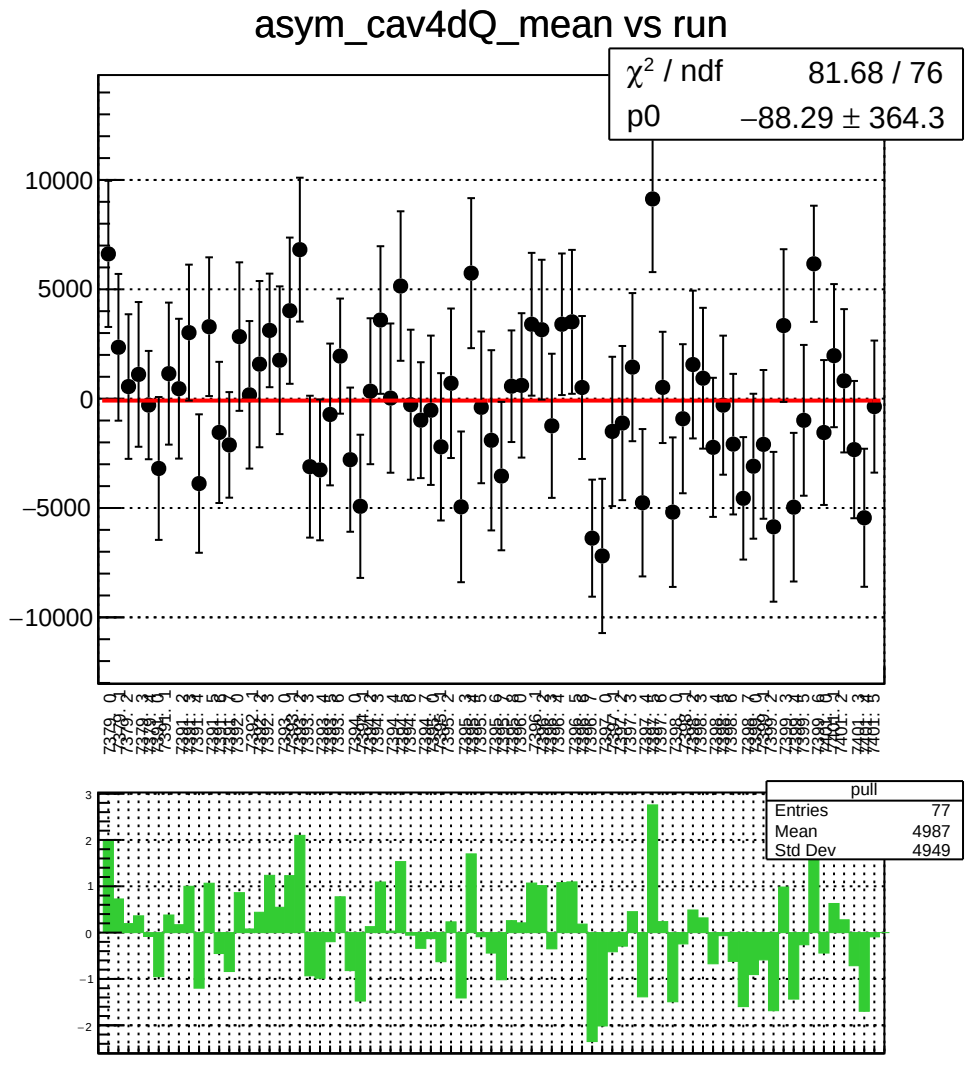

pull1D
Entries 77
Mean −0.008266
Std Dev 0.9025

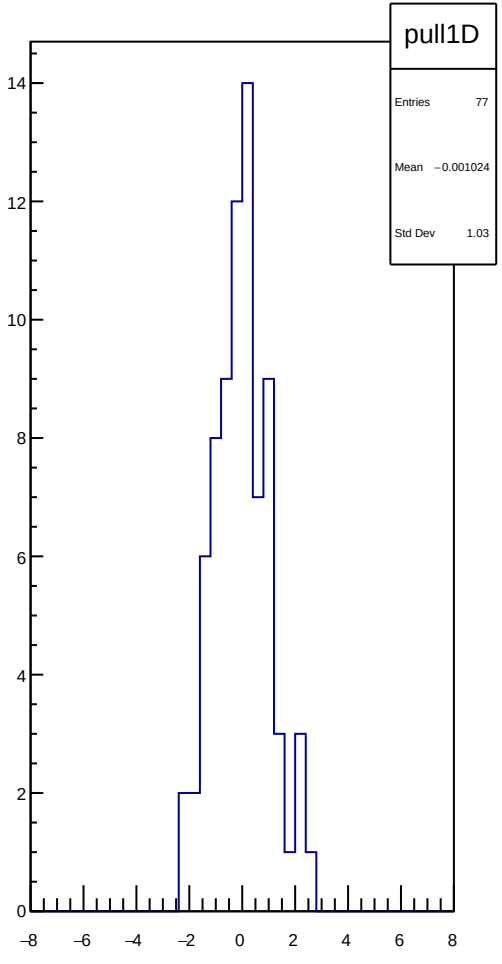

asym_cav4bQ_rms vs run
χ² / ndf 4334 / 76
p0 296.5 ± 0.242
360
340
320
300
280
260

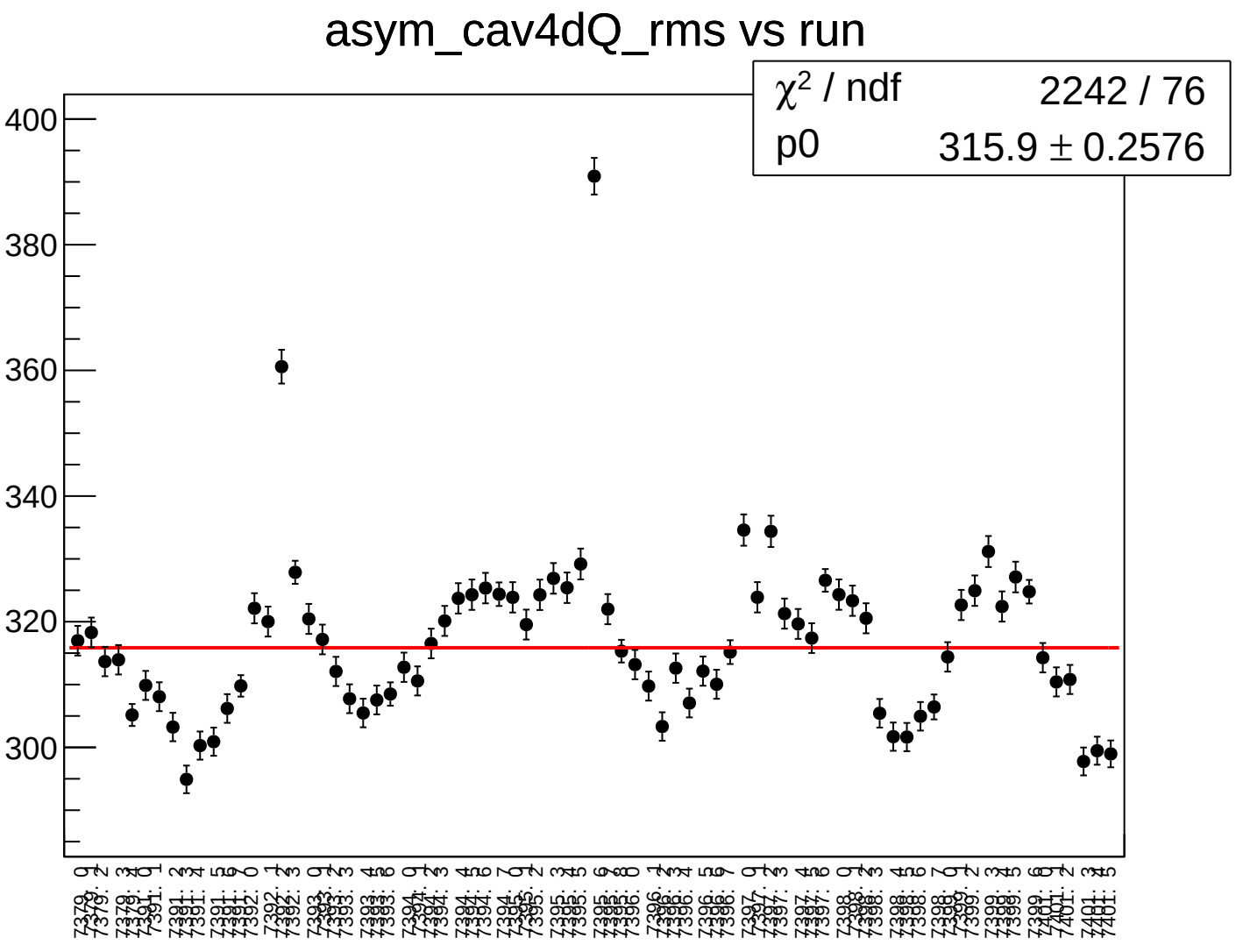

asym_cav4cQ_mean vs run
χ² / ndf 27.4 / 76
p0 150.4 ± 202.1
6000
4000
2000
0
−2000
−4000
pull
Entries 77
Mean 415.1
Std Dev 402
2
1.5
1
0.5
0
−0.5
−1

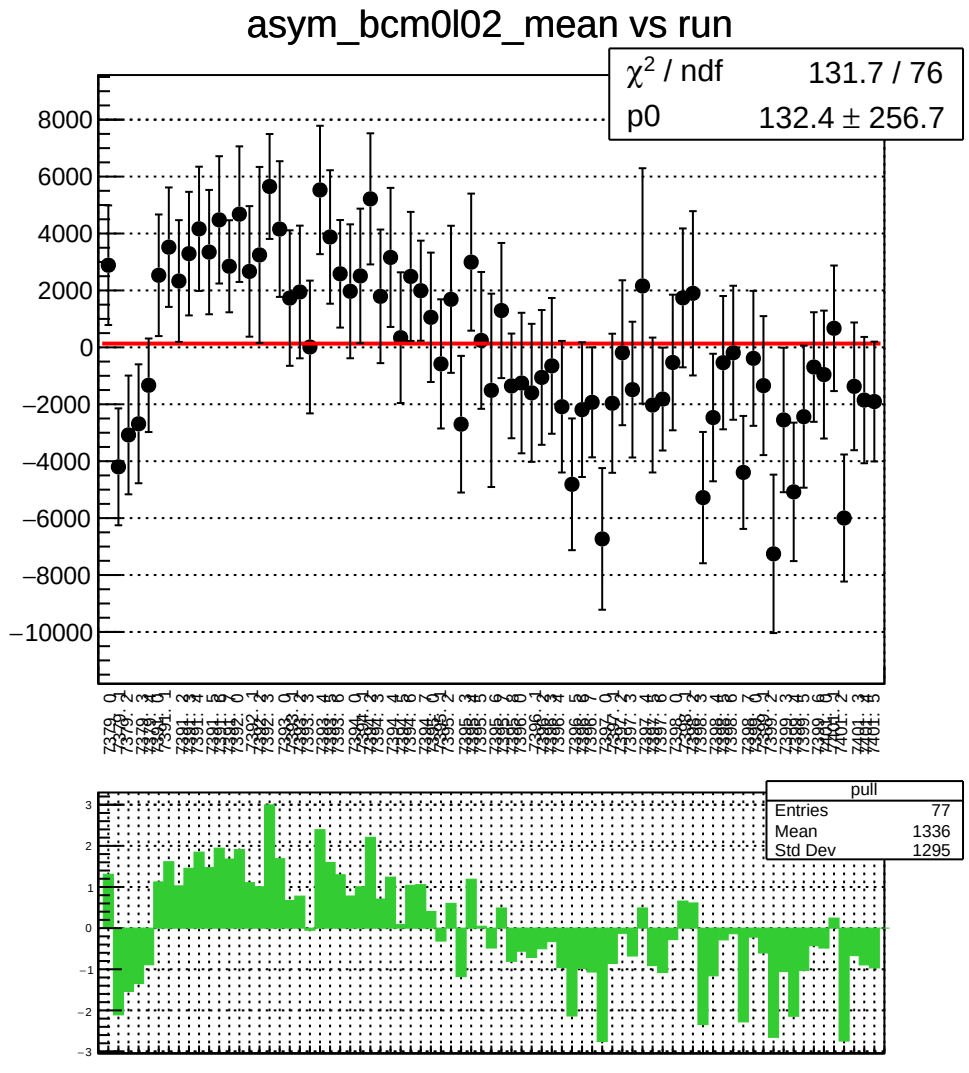

pull1D
Entries 77
Mean −0.002131
Std Dev 0.5965
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

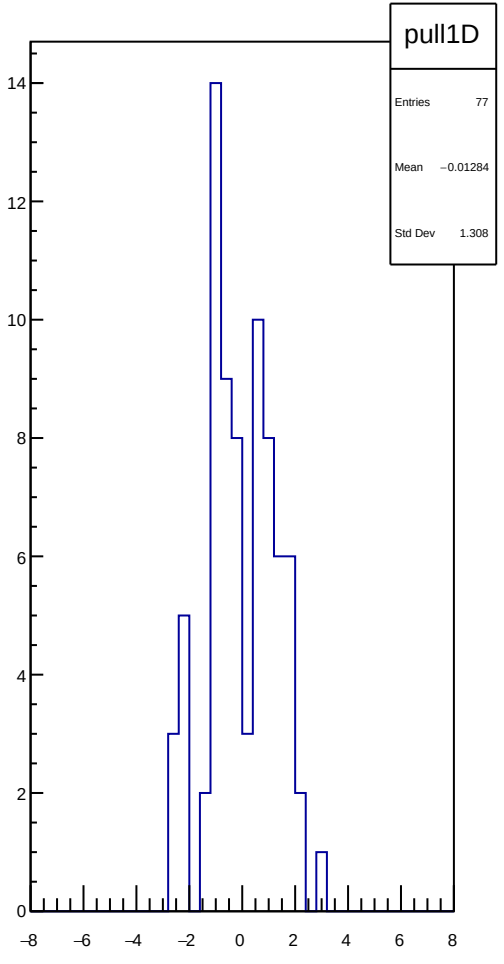

asym_cav4cQ_rms vs run
χ² / ndf 9012 / 76
p0 174.8 ± 0.1429
280
260
240
220
200
180
160
140

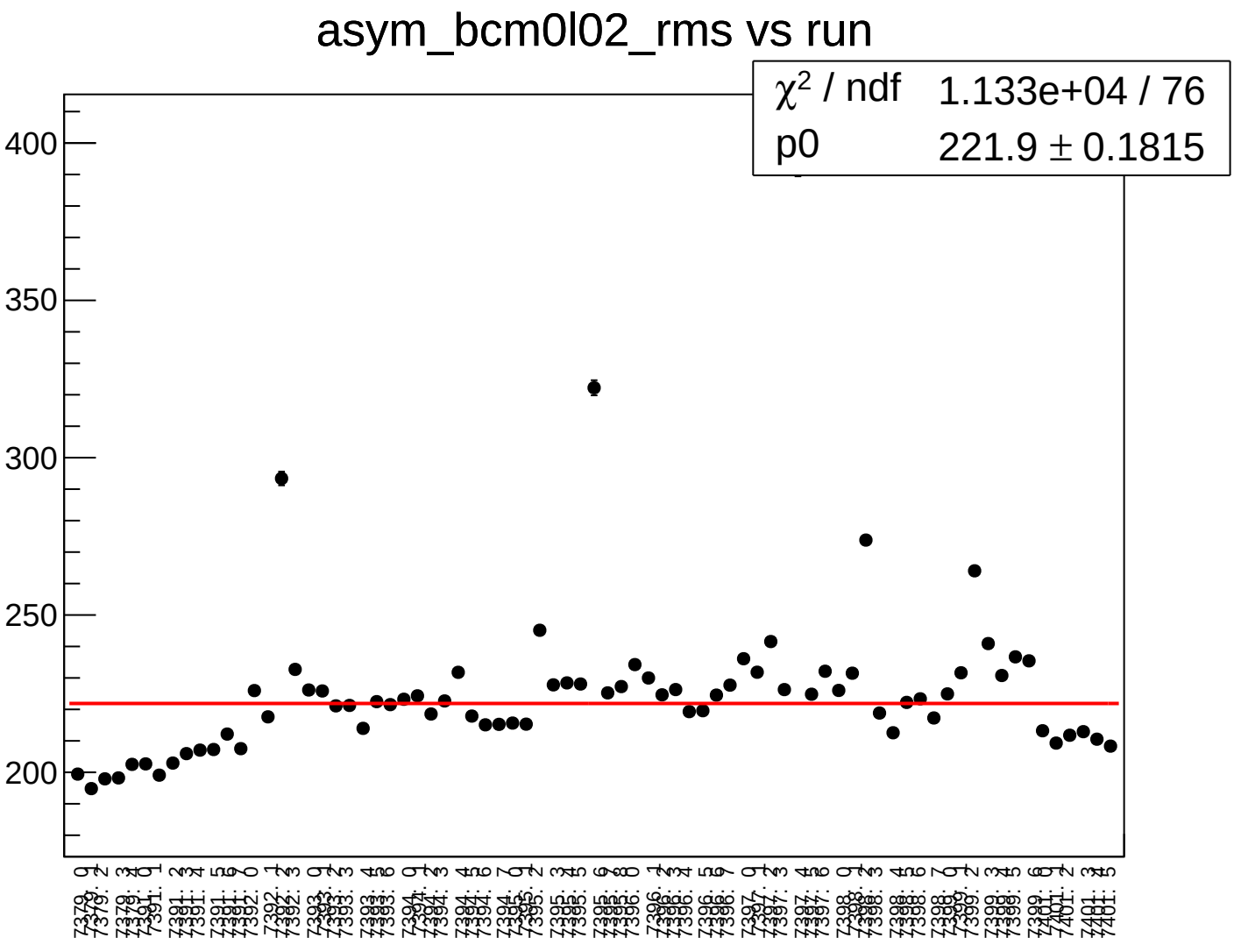

asym_cav4dQ_mean vs run
χ² / ndf 81.68 / 76
p0 −88.29 ± 364.3
10000
5000
0
−5000
−10000
pull
Entries 77
Mean 4987
Std Dev 4949
3
2
1
0
−1
−2

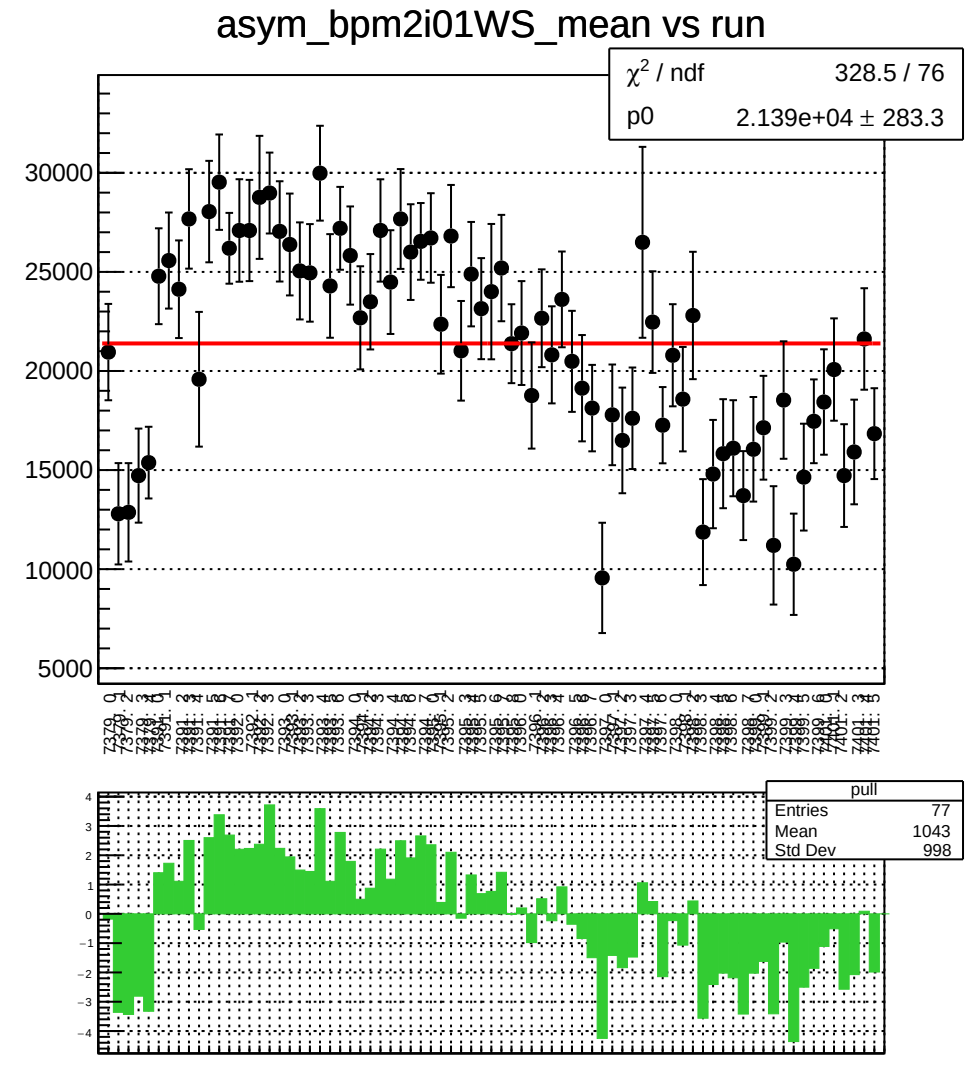

pull1D
Entries 77
Mean −0.001024
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

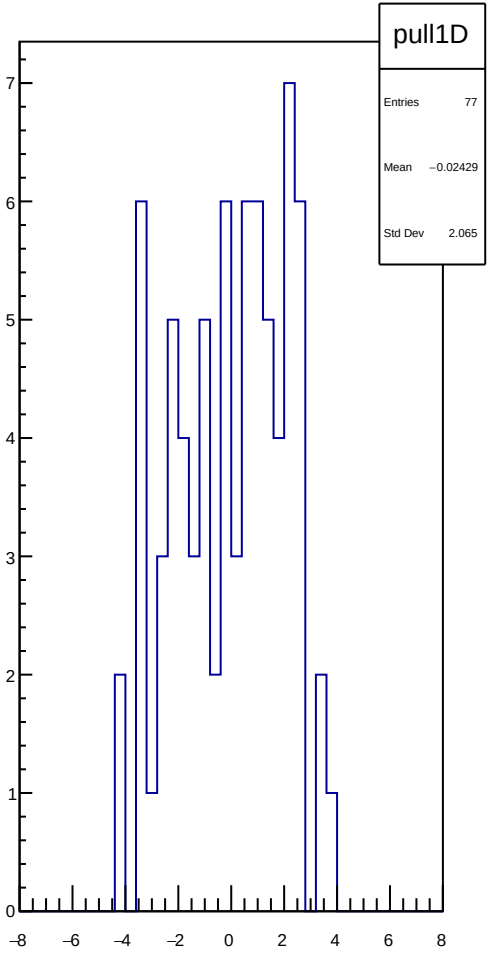

asym_cav4dQ_rms vs run
χ² / ndf 2242 / 76
p0 315.9 ± 0.2576
400
380
360
340
320
300

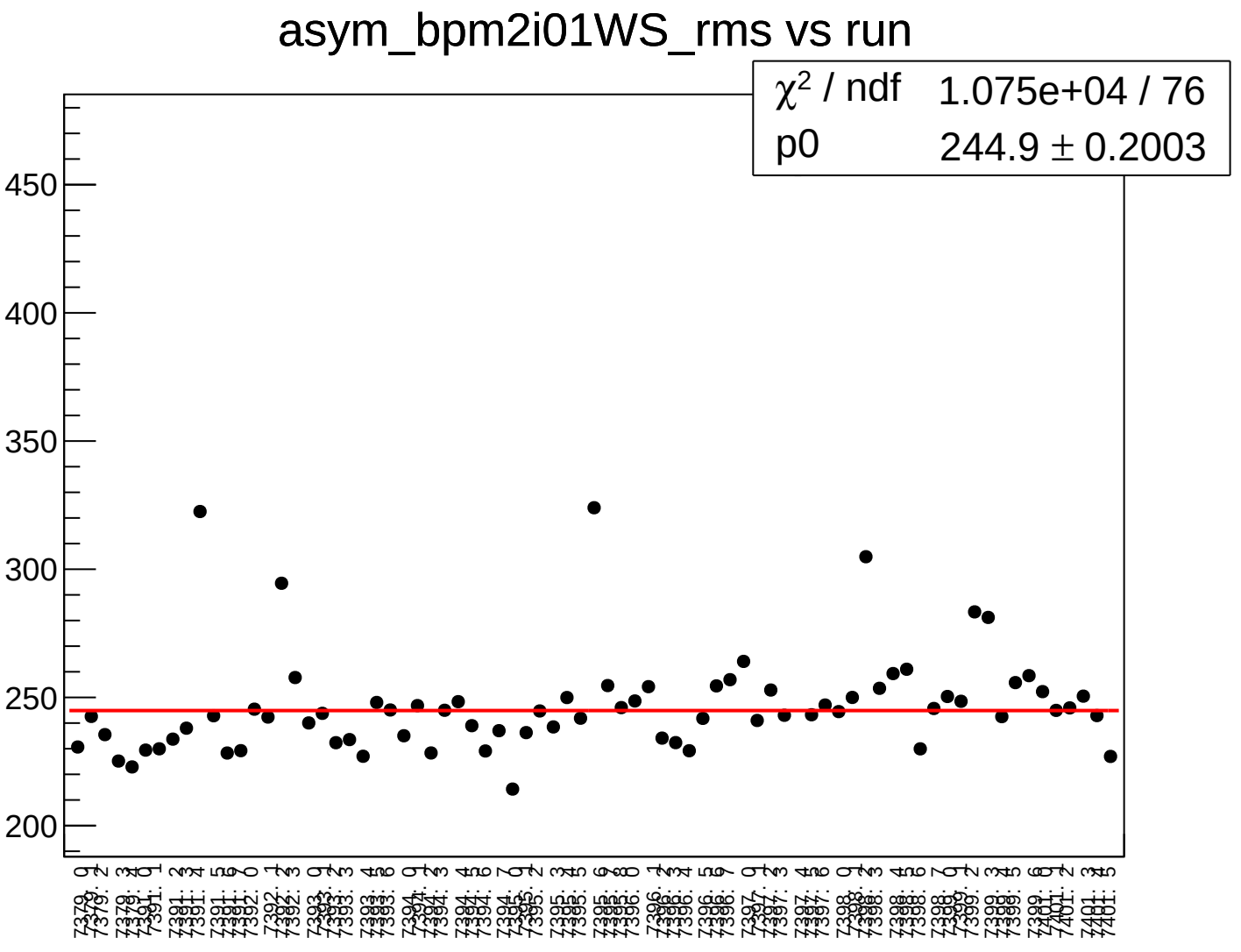

asym_bcm0l02_mean vs run
χ² / ndf 131.7 / 76
p0 132.4 ± 256.7
pull
Entries 77
Mean 1336
Std Dev 1295

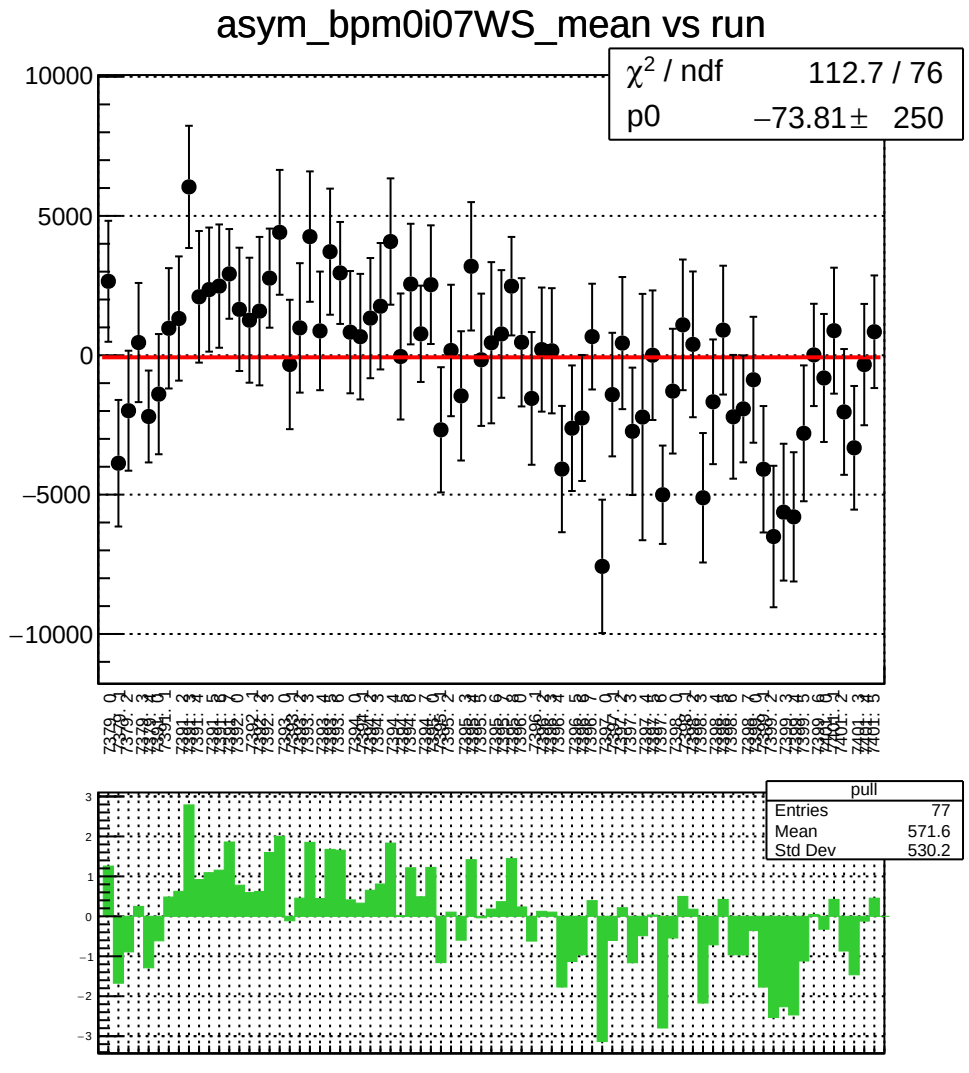

pull1D
Entries 77
Mean −0.01284
Std Dev 1.308

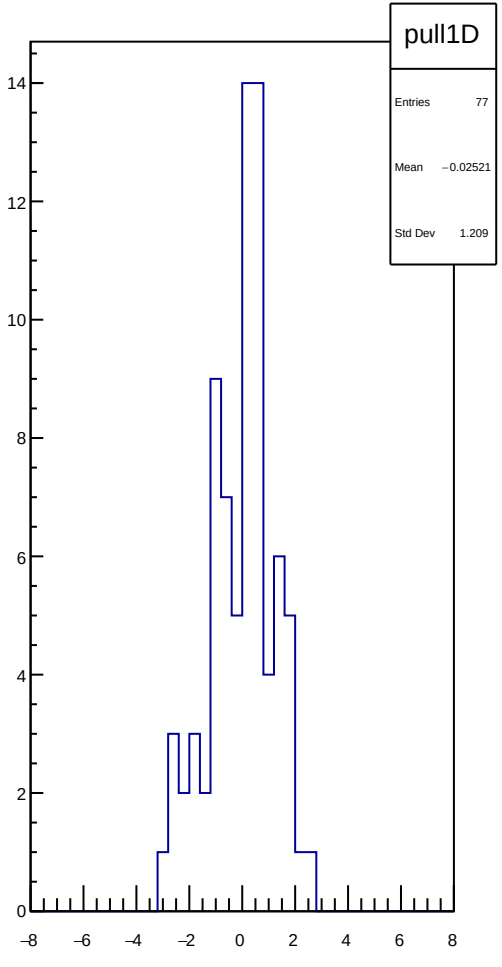

asym_bcm0l02_rms vs run
χ^2 / ndf 1.133e+04 / 76
p0 221.9 ± 0.1815
400
350
300
250
200

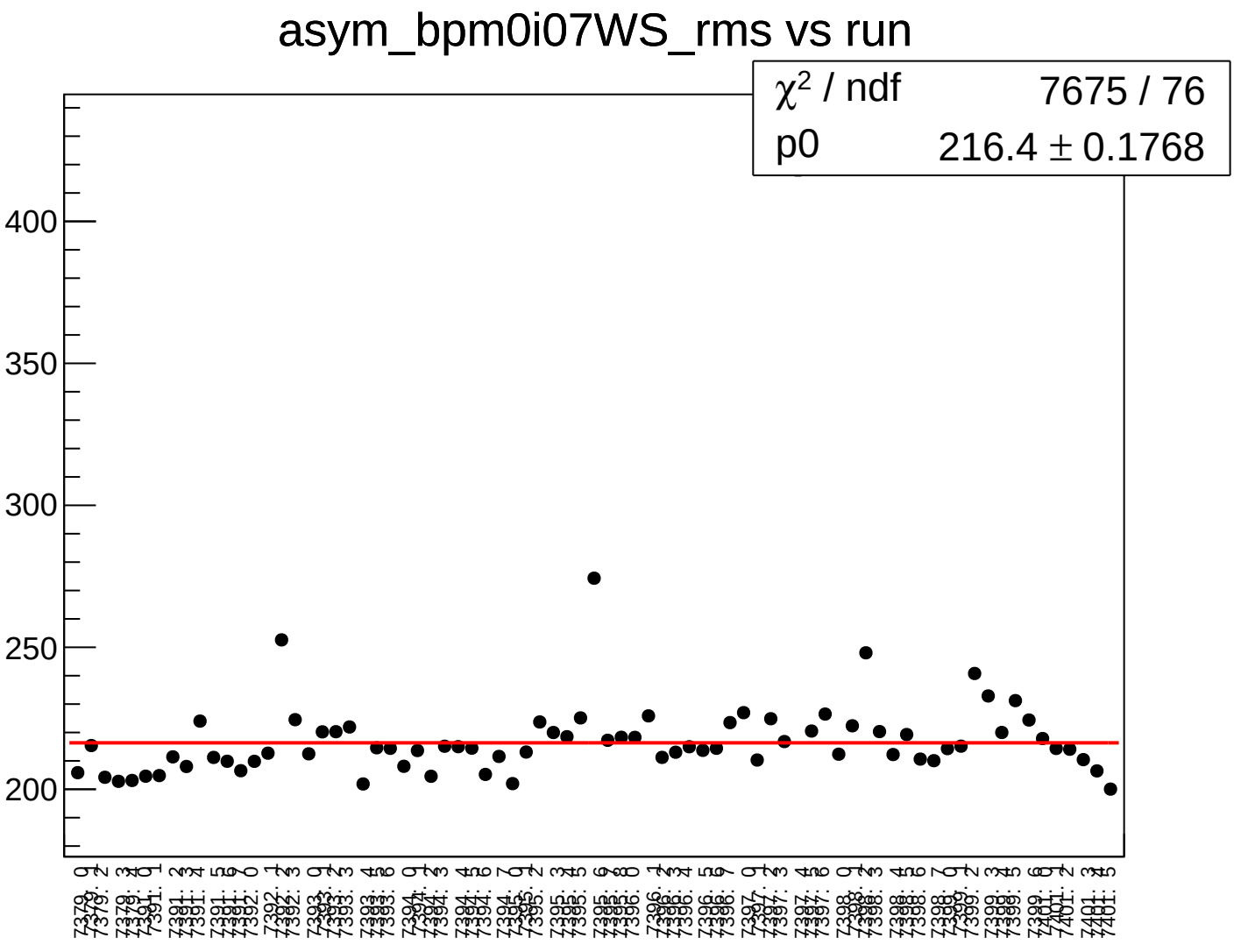

asym_bpm2i01WS_mean vs run
χ² / ndf 328.5 / 76
p0 2.139e+04 ± 283.3
pull
Entries 77
Mean 1043
Std Dev 998

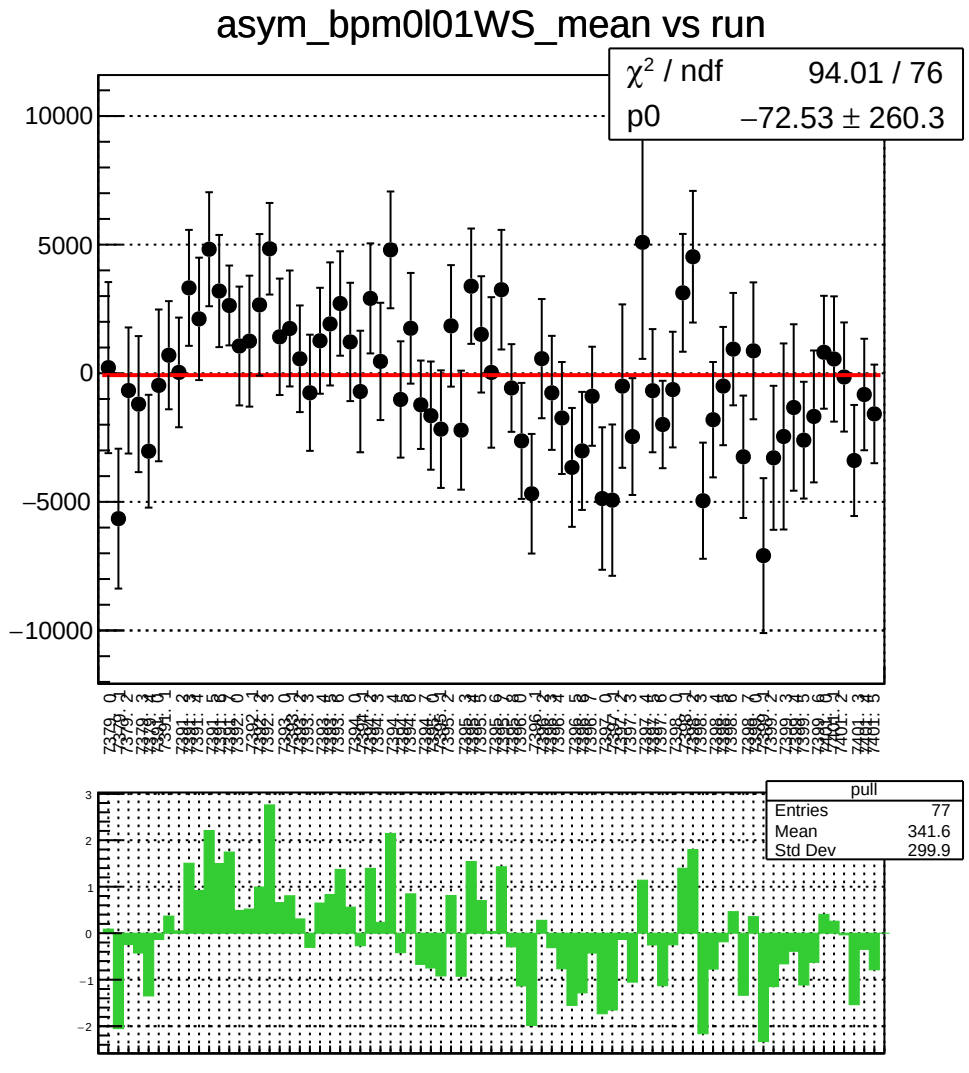

pull1D
Entries 77
Mean −0.02429
Std Dev 2.065

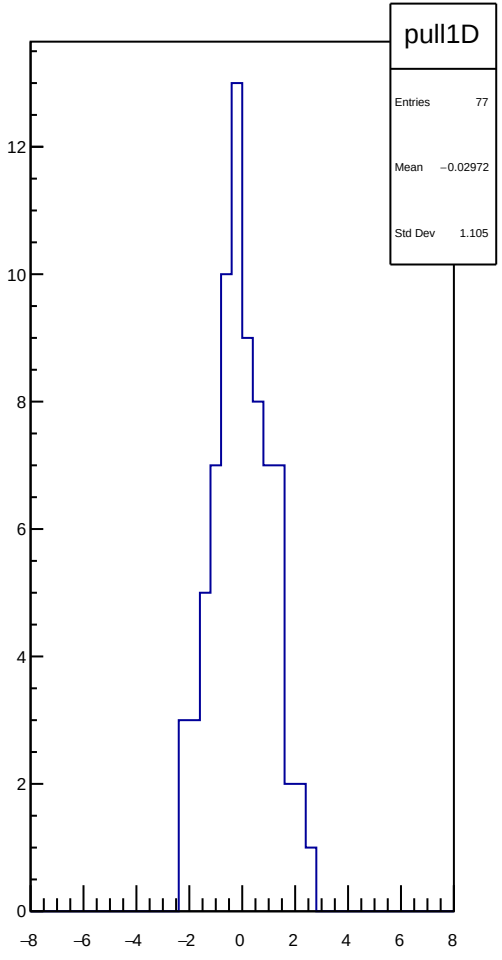

asym_bpm2i01WS_rms vs run
χ^2 / ndf 1.075e+04 / 76
p0 244.9 ± 0.2003
450
400
350
300
250
200

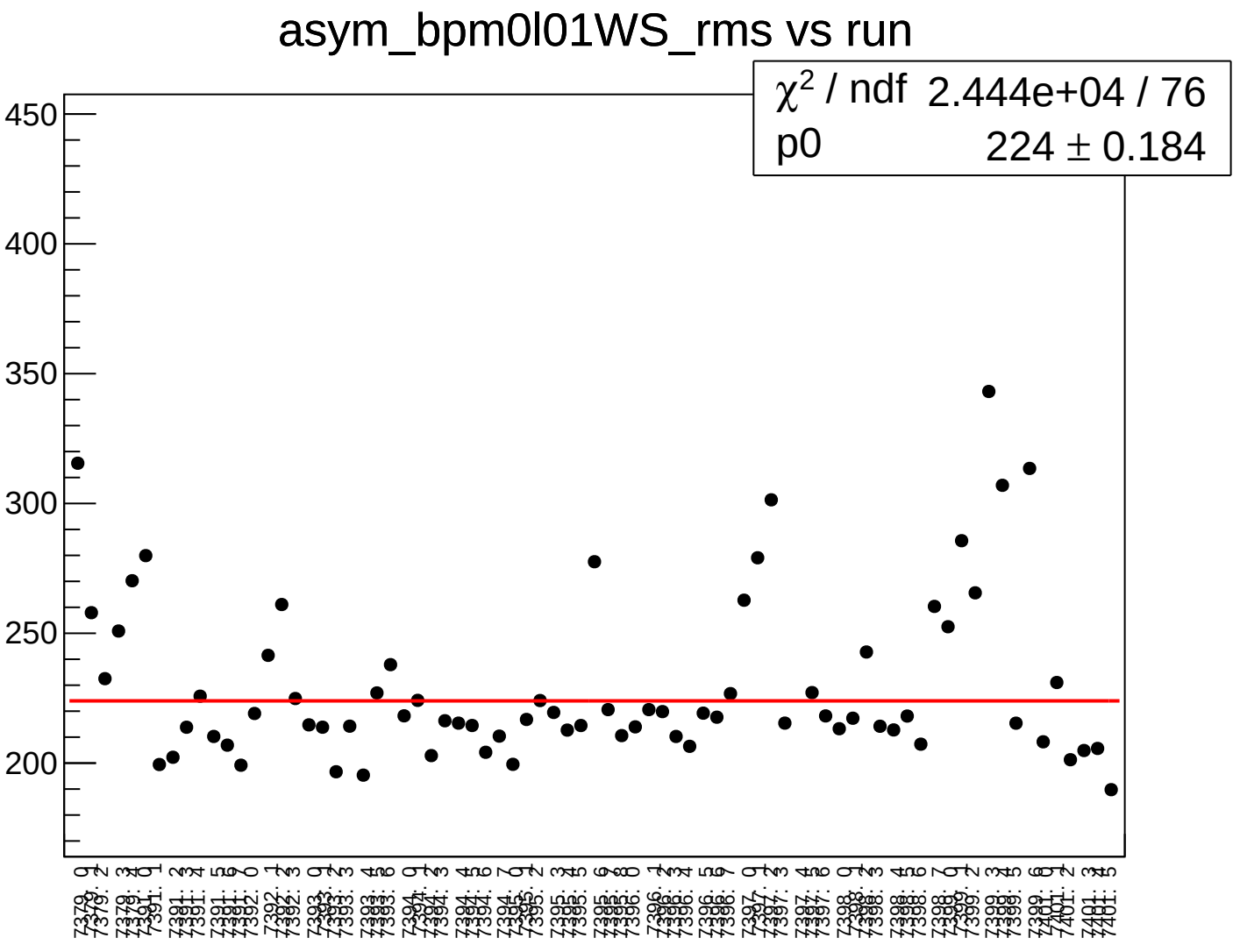

asym_bpm0i07WS_mean vs run
χ² / ndf 112.7 / 76
p0 −73.81 ± 250
pull
Entries 77
Mean 571.6
Std Dev 530.2

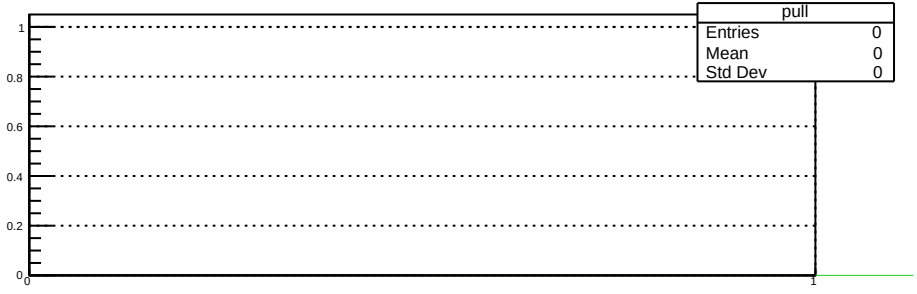

pull1D
Entries 77
Mean −0.02521
Std Dev 1.209

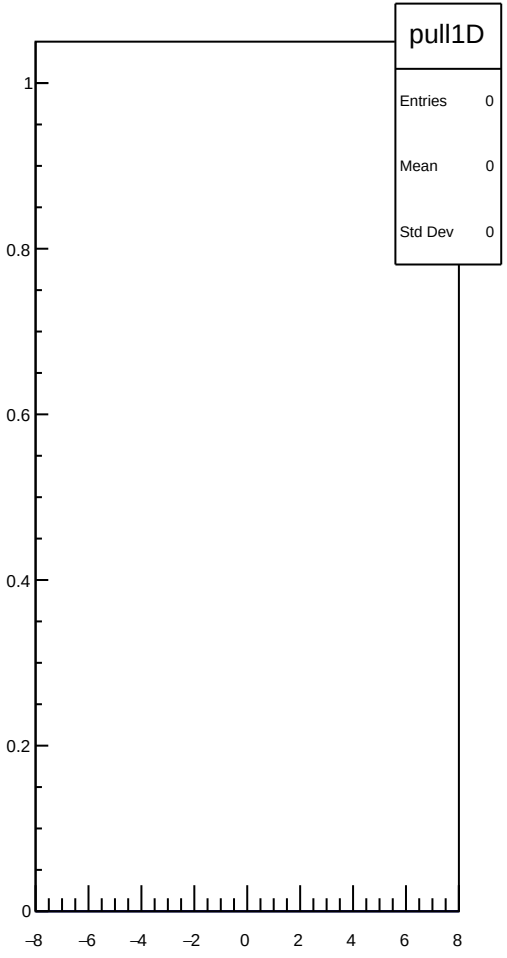

asym_bpm0i07WS_rms vs run
χ² / ndf 7675 / 76
p0 216.4 ± 0.1768
400
350
300
250
200

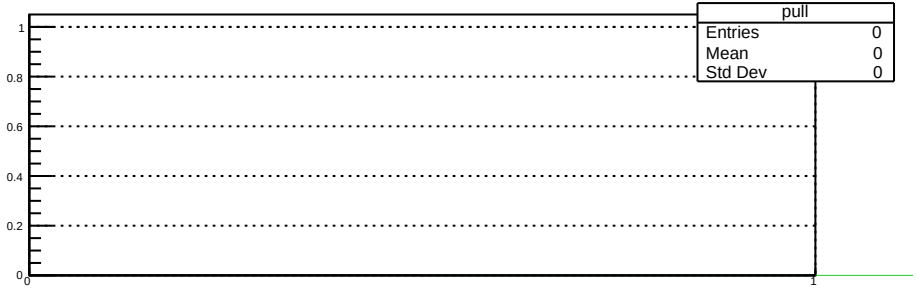

asym_bpm0l01WS_mean vs run
χ² / ndf 94.01 / 76
p0 −72.53 ± 260.3
10000
5000
0
−5000
−10000
pull
Entries 77
Mean 341.6
Std Dev 299.9
3
2
1
0
−1
−2

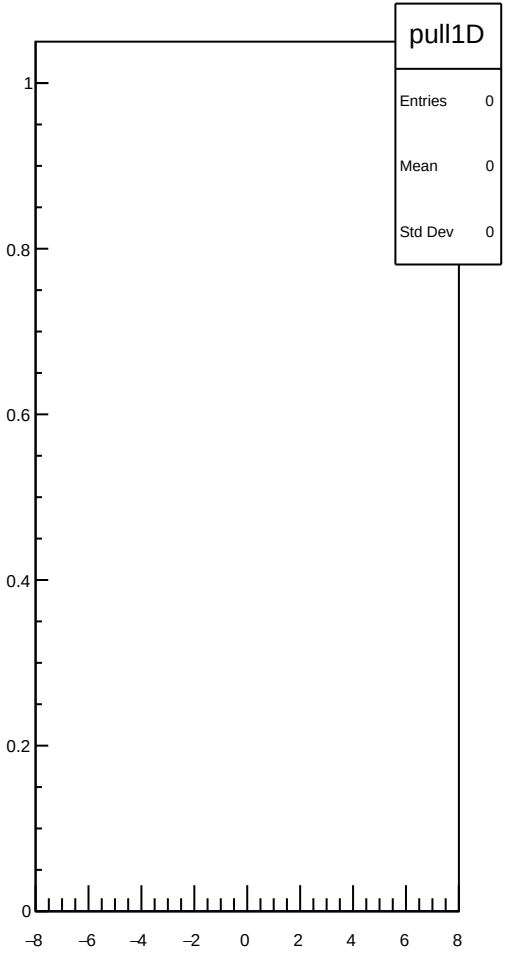

pull1D
Entries 77
Mean −0.02972
Std Dev 1.105
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

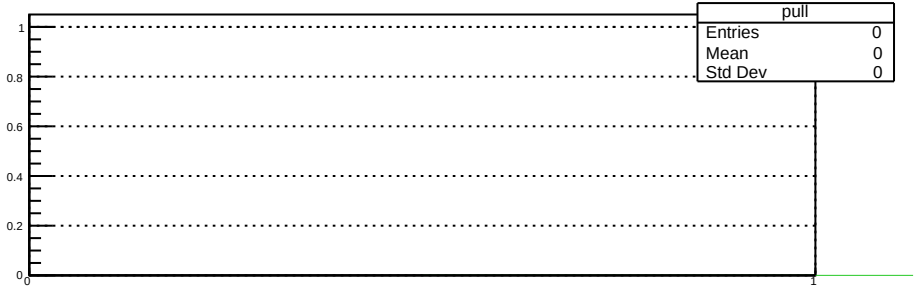

asym_bpm0l01WS_rms vs run
χ^2 / ndf 2.444e+04 / 76
p0 224 ± 0.184
450
400
350
300
250
200

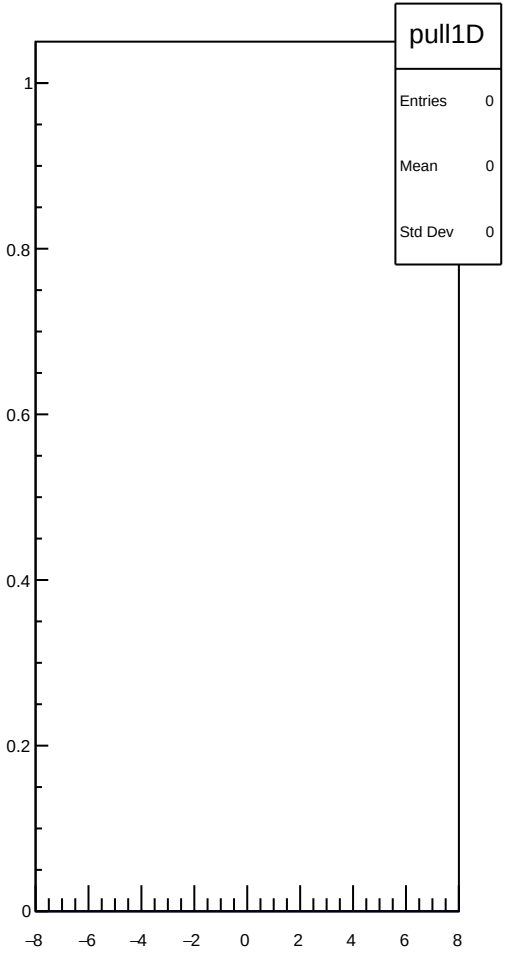

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

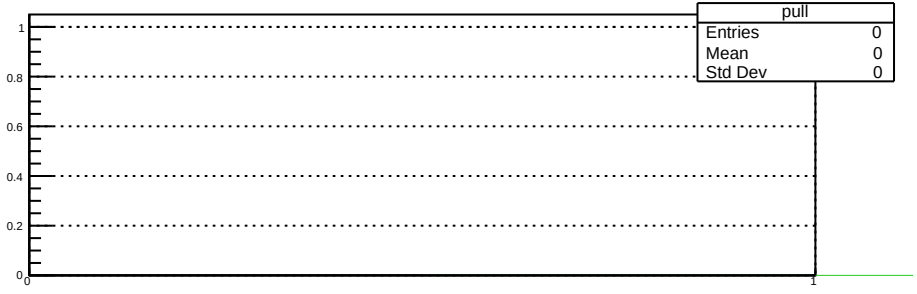

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

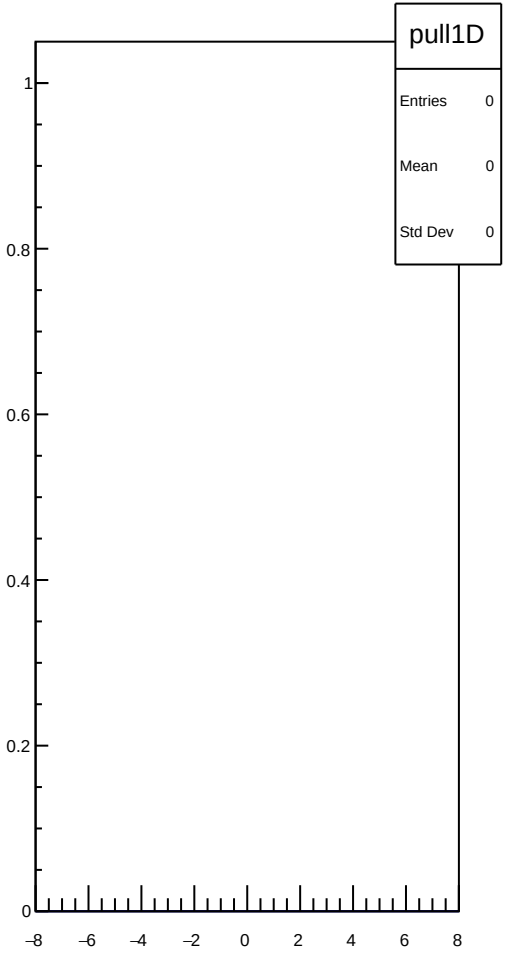

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

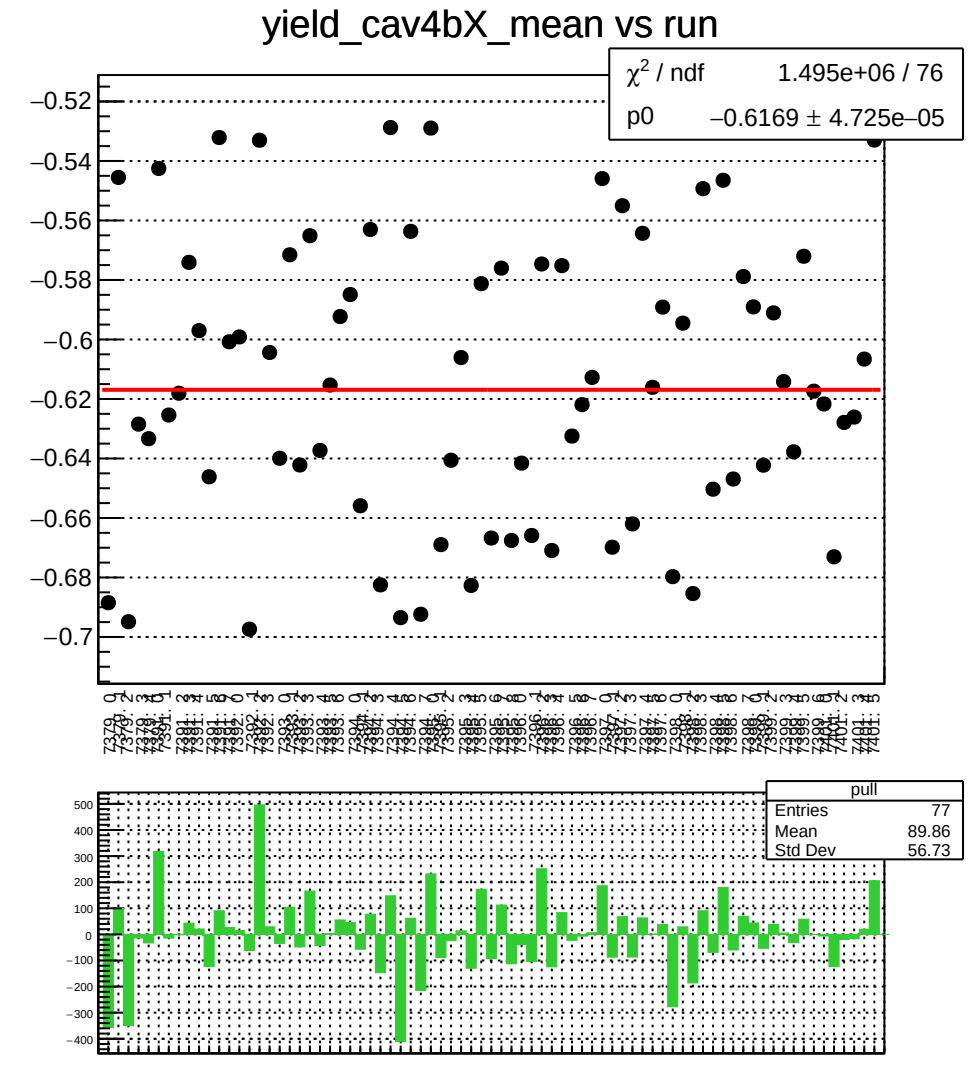

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

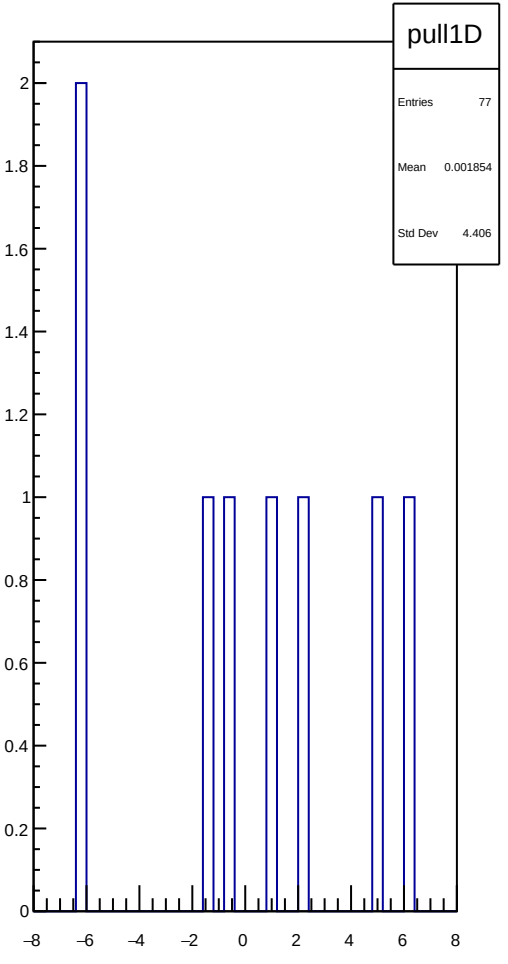

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

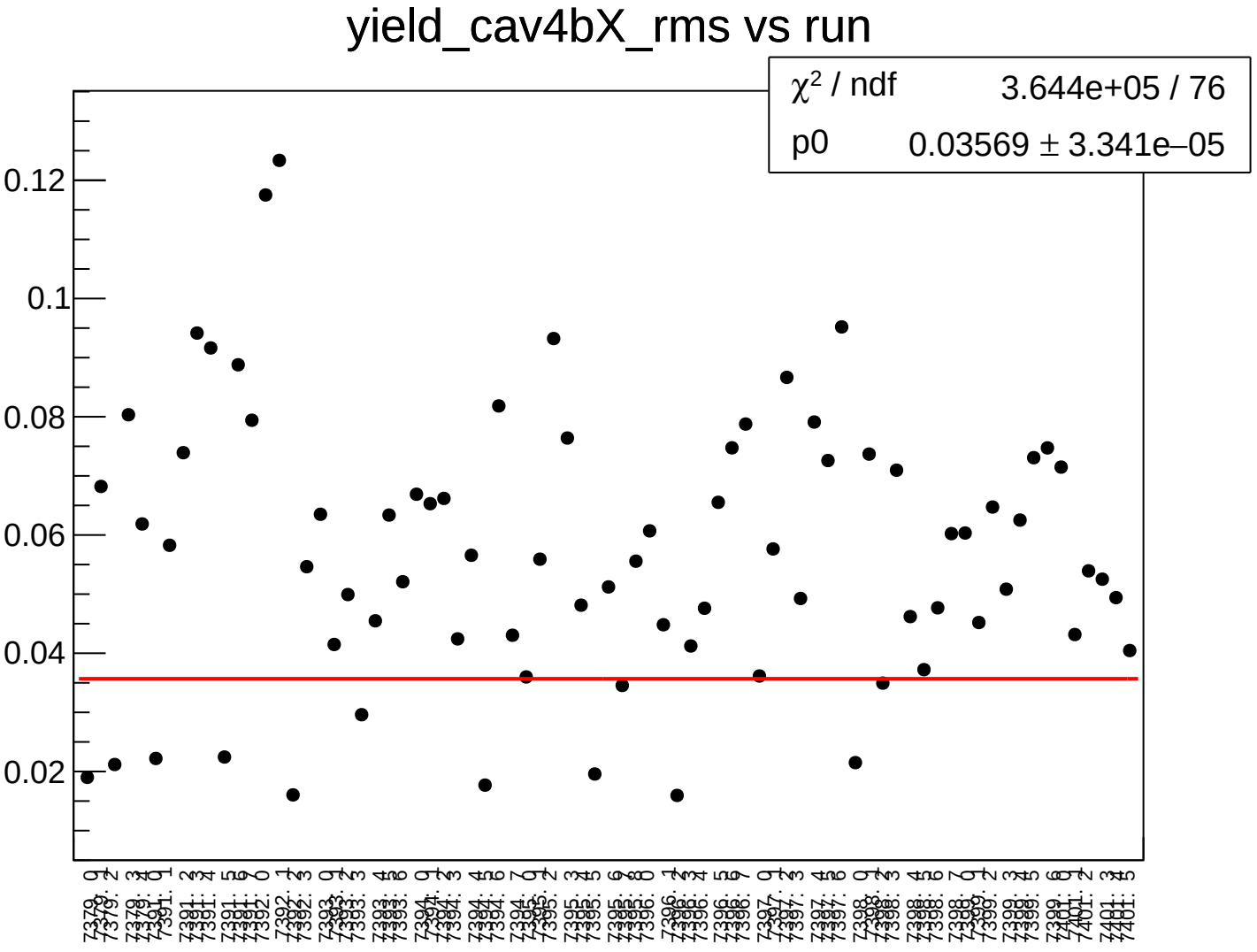

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

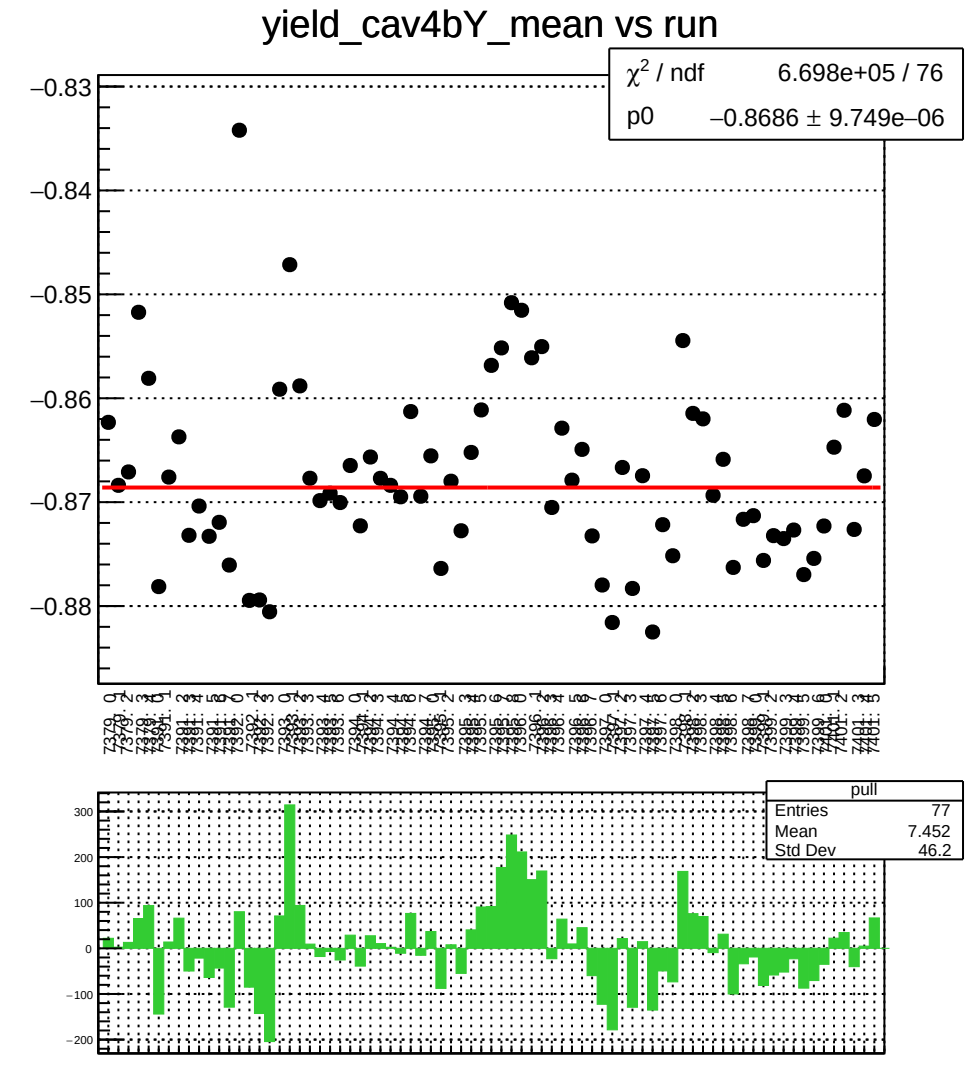

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

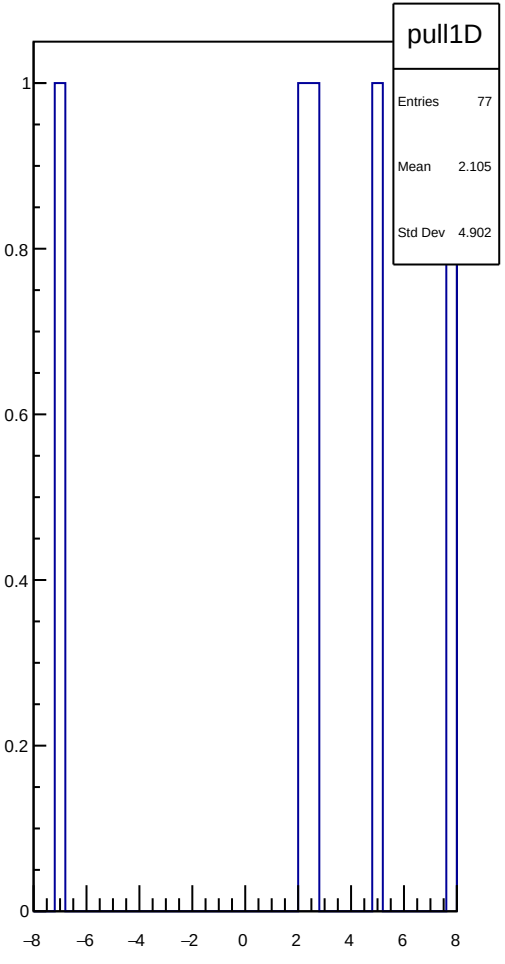

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

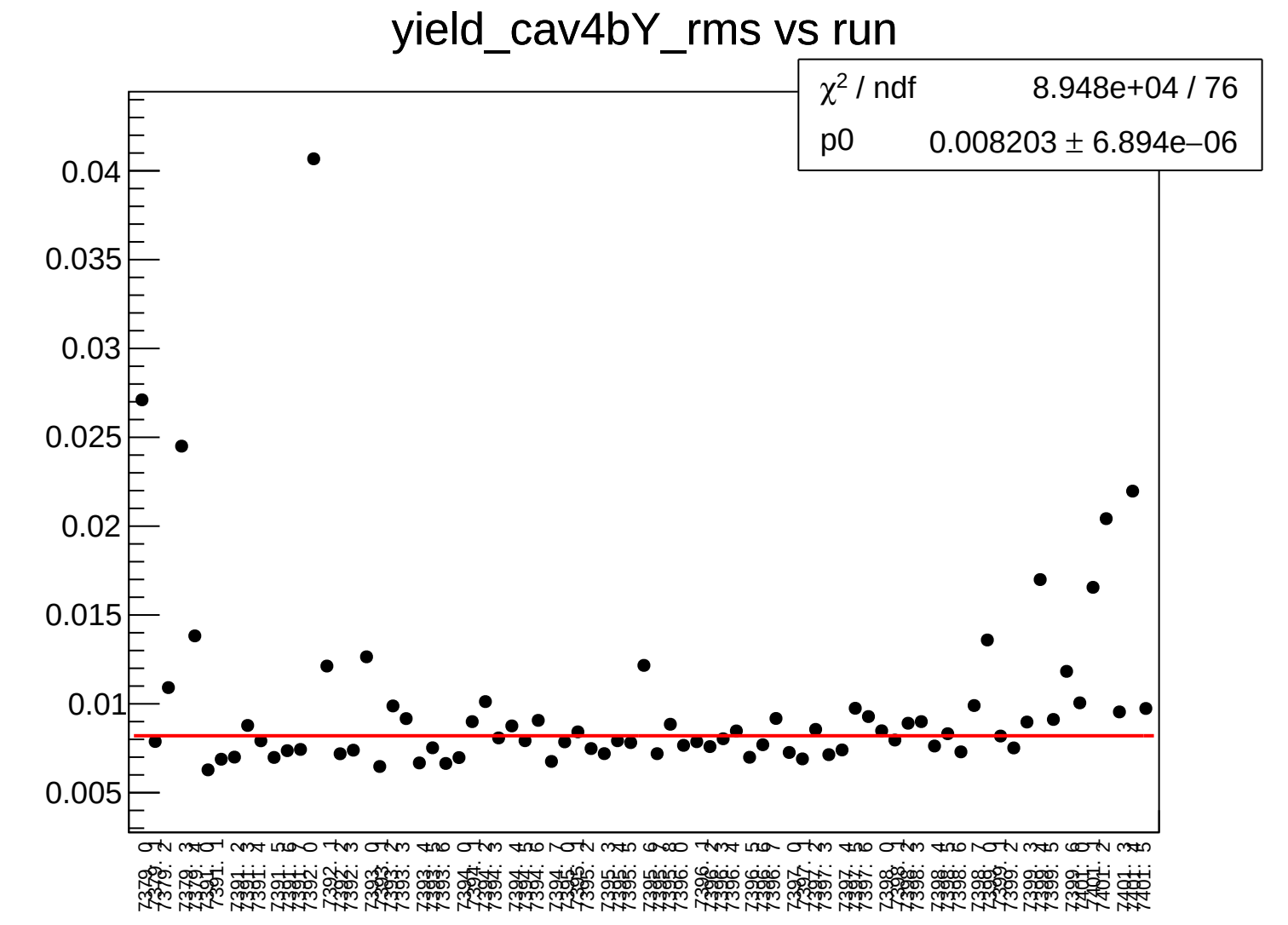

yield_cav4bX_mean vs run
χ² / ndf 1.495e+06 / 76
p0 −0.6169 ± 4.725e−05
pull
Entries 77
Mean 89.86
Std Dev 56.73

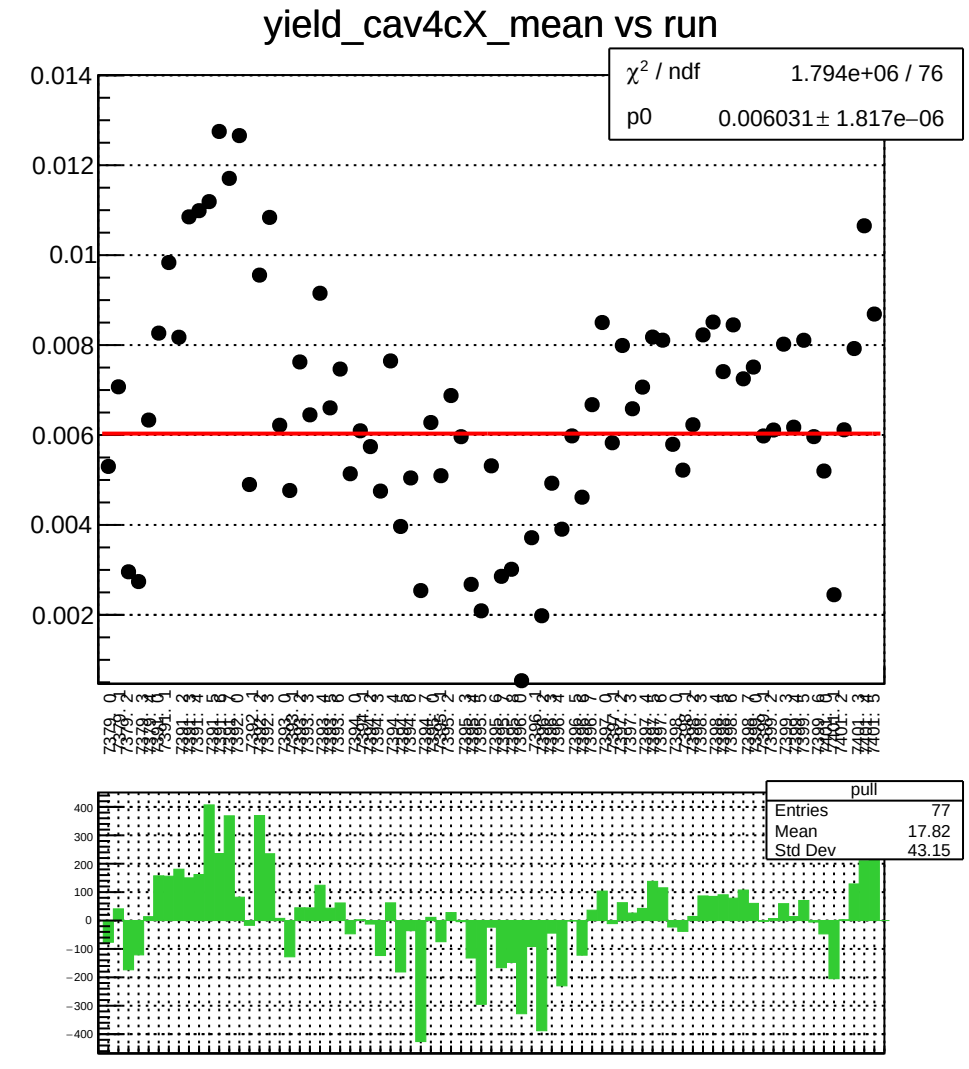

pull1D
Entries 77
Mean 0.001854
Std Dev 4.406

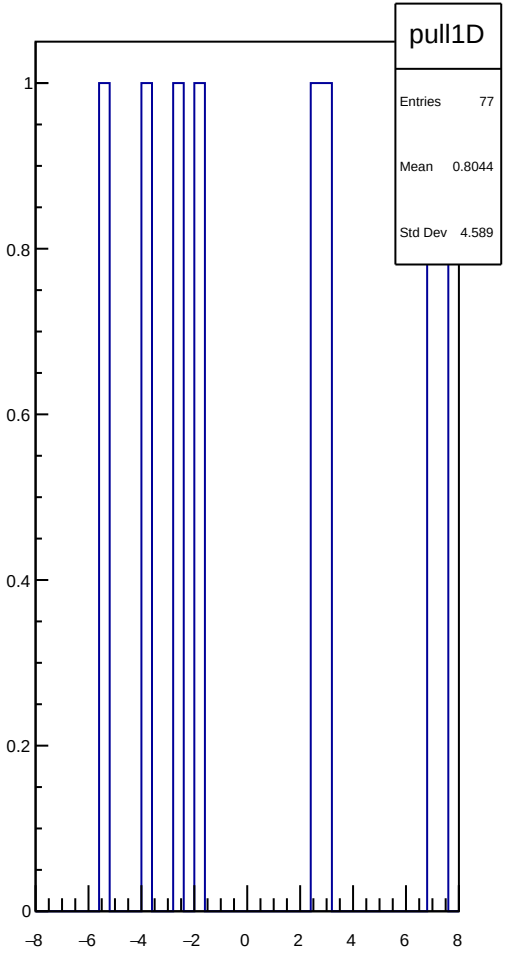

yield_cav4bX_rms vs run
χ² / ndf 3.644e+05 / 76
p0 0.03569 ± 3.341e–05
0.12
0.1
0.08
0.06
0.04
0.02

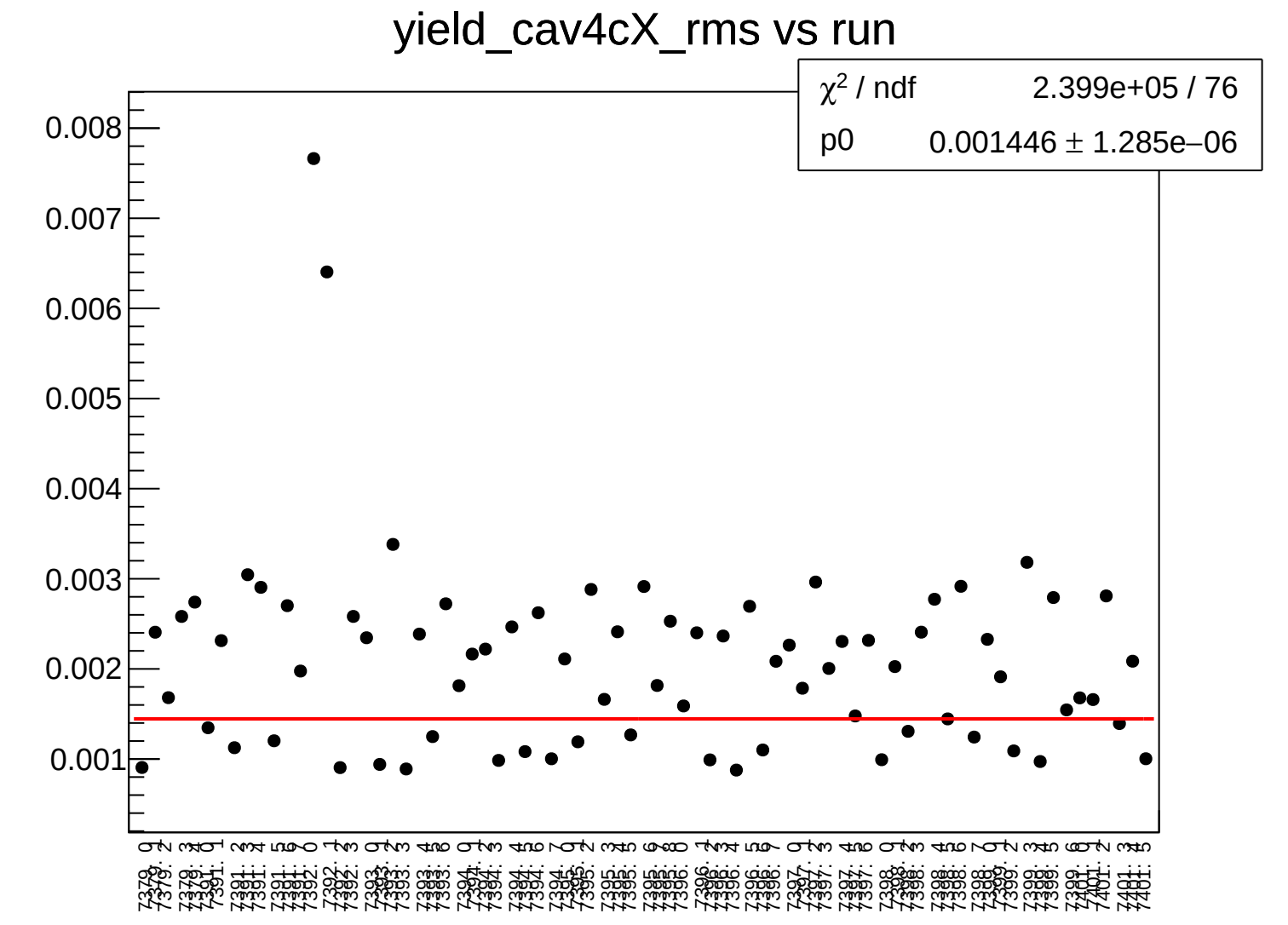

yield_cav4bY_mean vs run
χ² / ndf 6.698e+05 / 76
p0 −0.8686 ± 9.749e−06
−0.83
−0.84
−0.85
−0.86
−0.87
−0.88
pull
Entries 77
Mean 7.452
Std Dev 46.2
300
200
100
0
−100
−200

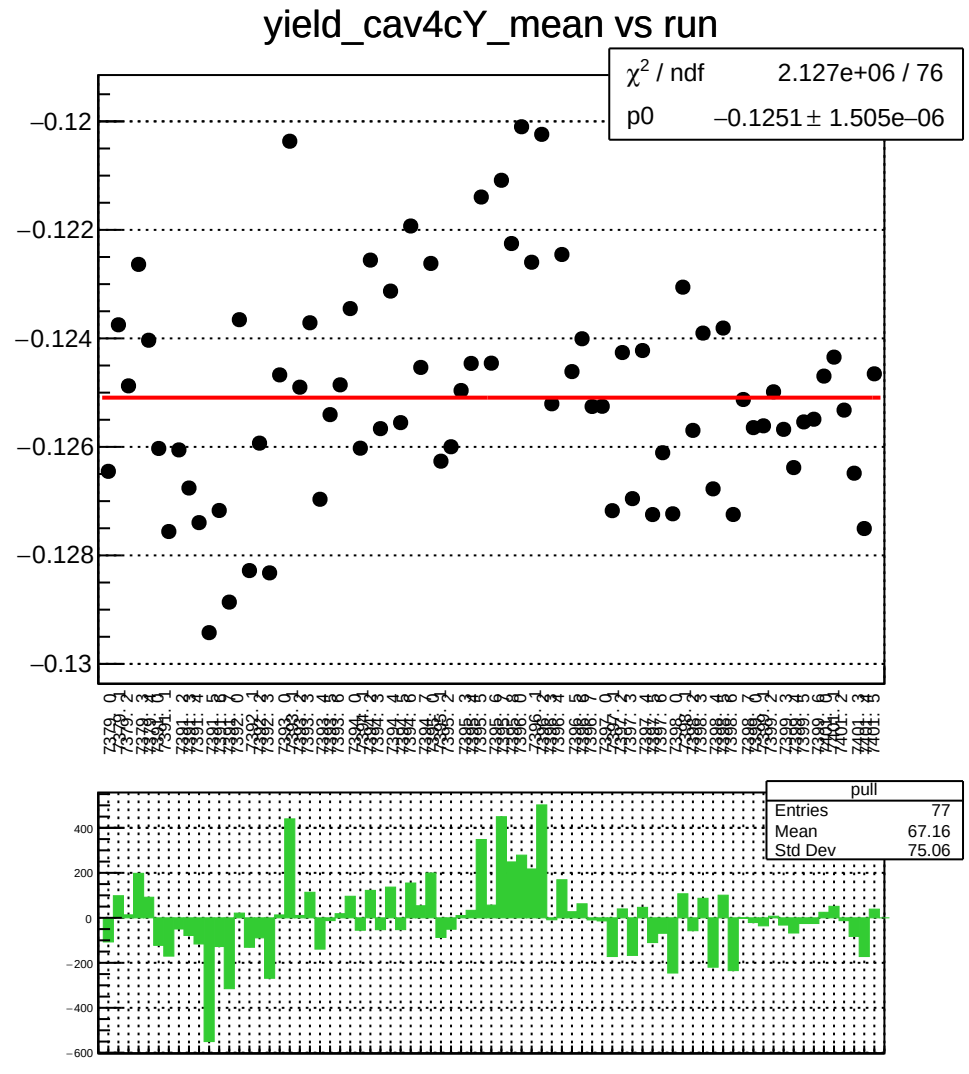

pull1D
Entries 77
Mean 2.105
Std Dev 4.902
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

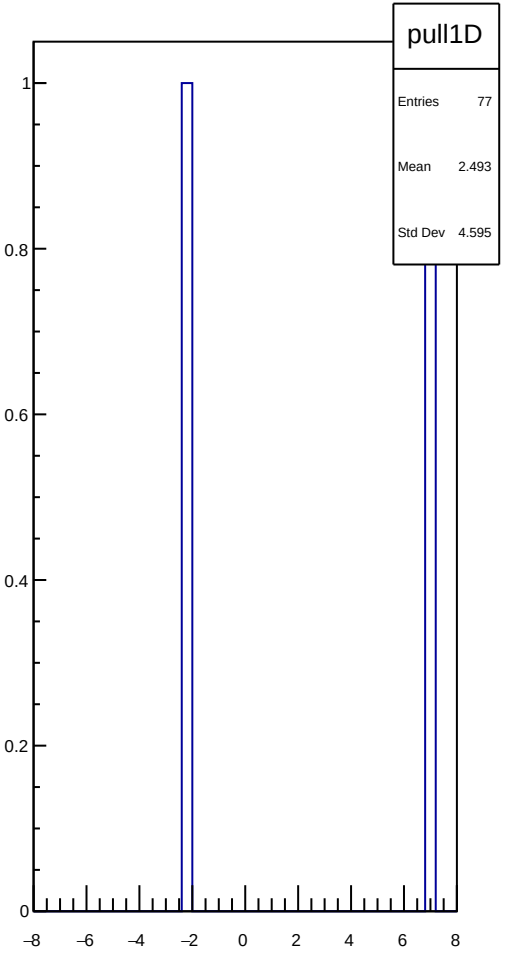

yield_cav4bY_rms vs run
χ^2 / ndf 8.948e+04 / 76
p0 0.008203 ± 6.894e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

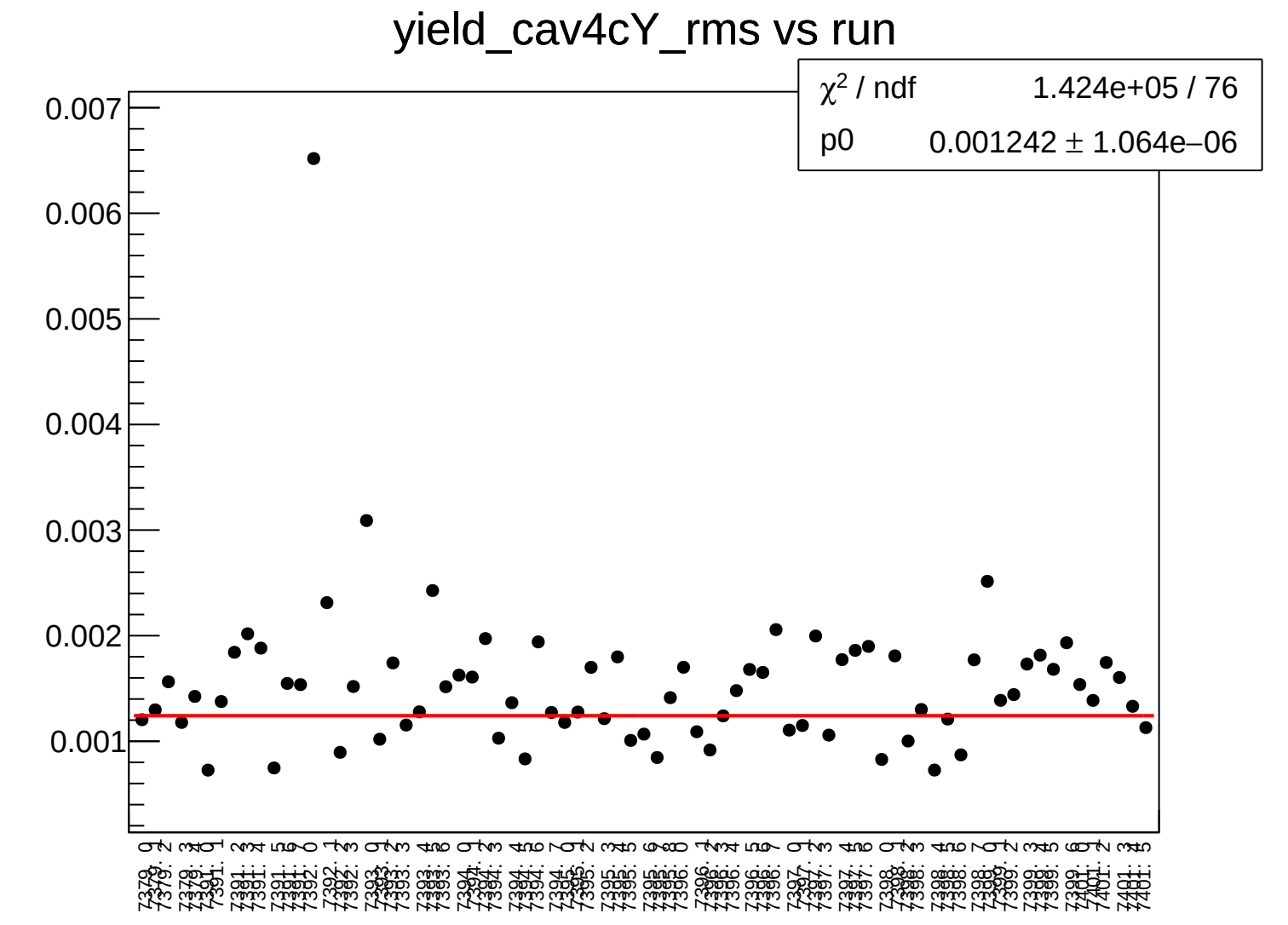

yield_cav4cX_mean vs run
χ² / ndf 1.794e+06 / 76
p0 0.006031 ± 1.817e−06
pull
Entries 77
Mean 17.82
Std Dev 43.15

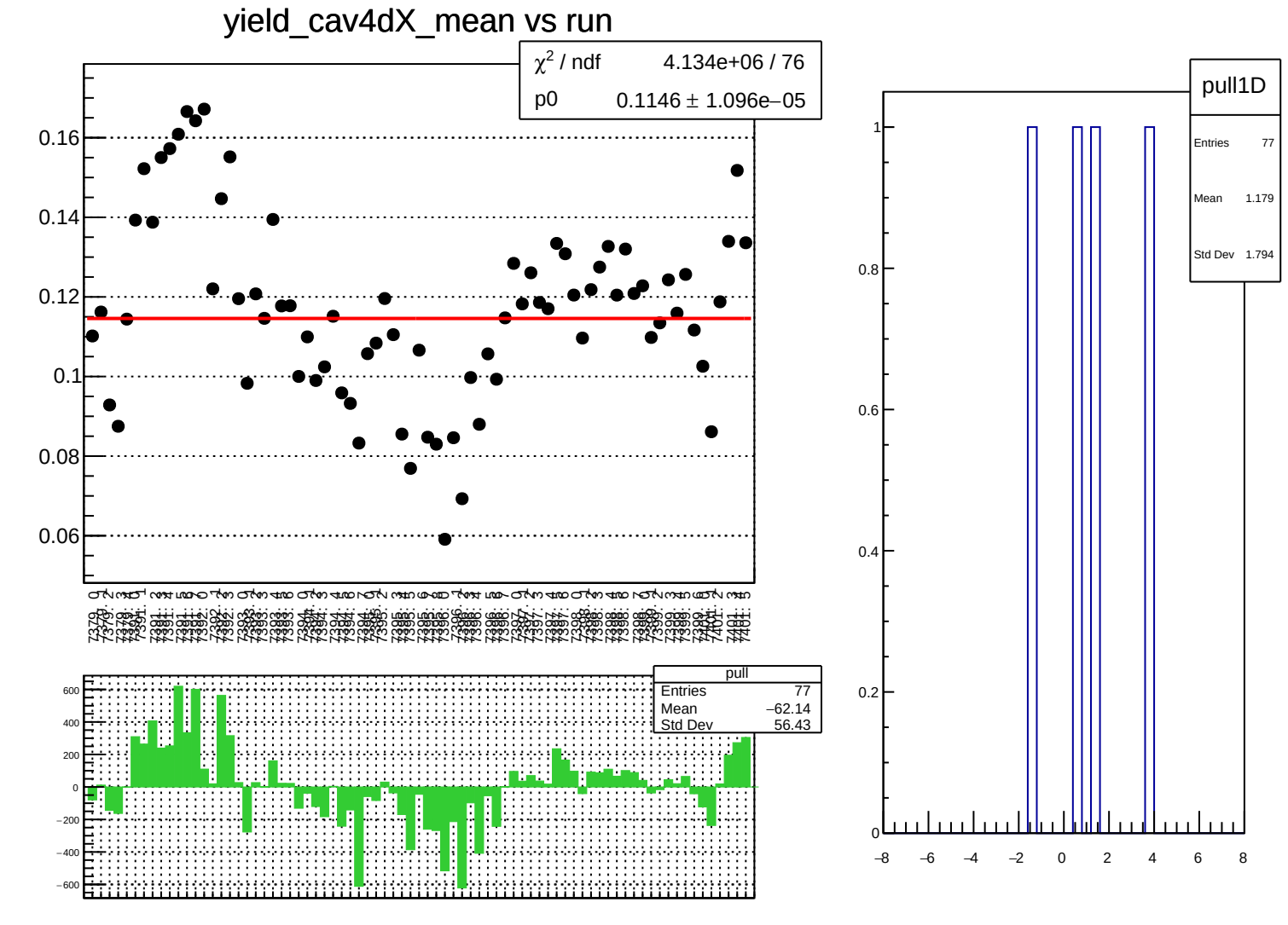

pull1D
Entries 77
Mean 0.8044
Std Dev 4.589

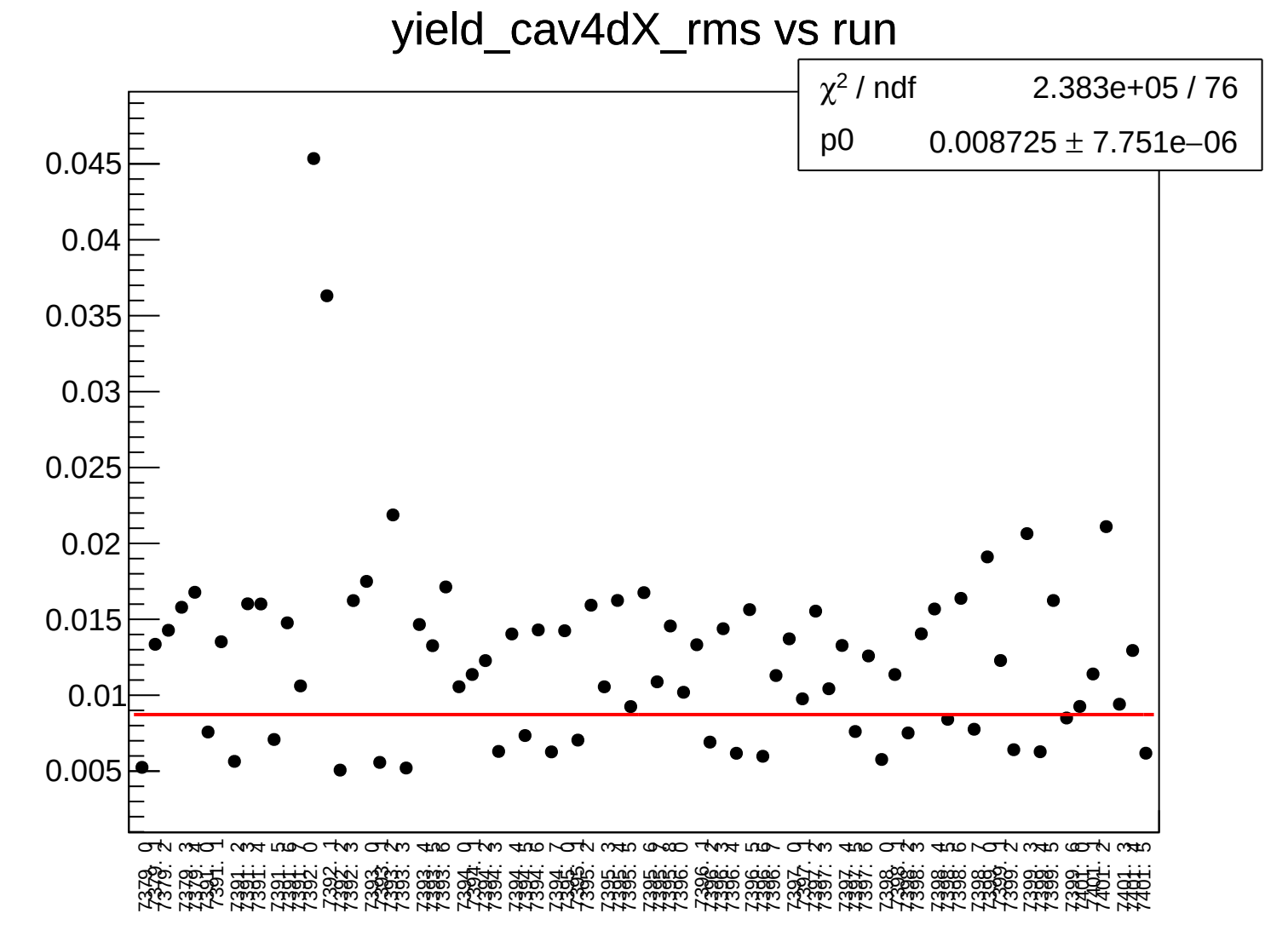

yield_cav4cX_rms vs run
χ² / ndf 2.399e+05 / 76
p0 0.001446 ± 1.285e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

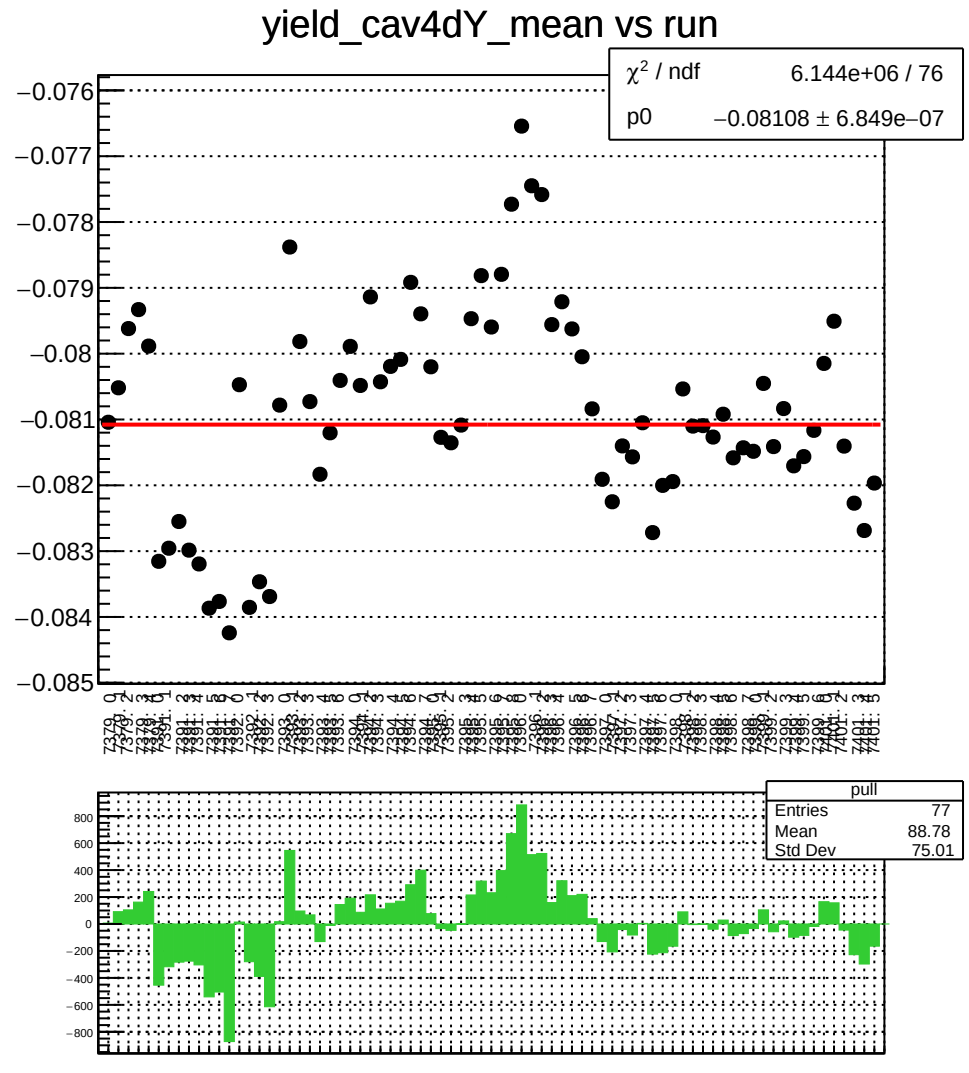

yield_cav4cY_mean vs run
χ² / ndf 2.127e+06 / 76
p0 −0.1251 ± 1.505e−06
−0.12
−0.122
−0.124
−0.126
−0.128
−0.13
pull
Entries 77
Mean 67.16
Std Dev 75.06
400
200
0
−200
−400
−600

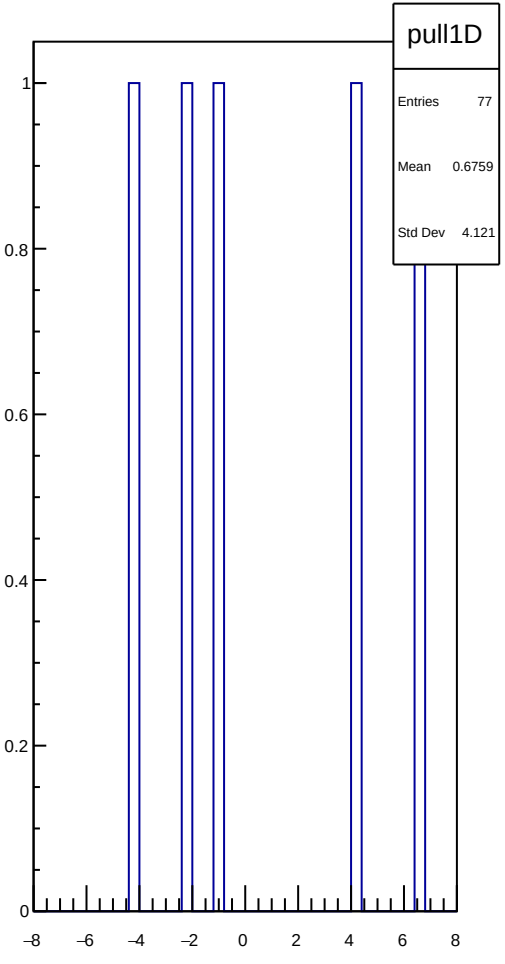

pull1D
Entries 77
Mean 2.493
Std Dev 4.595
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

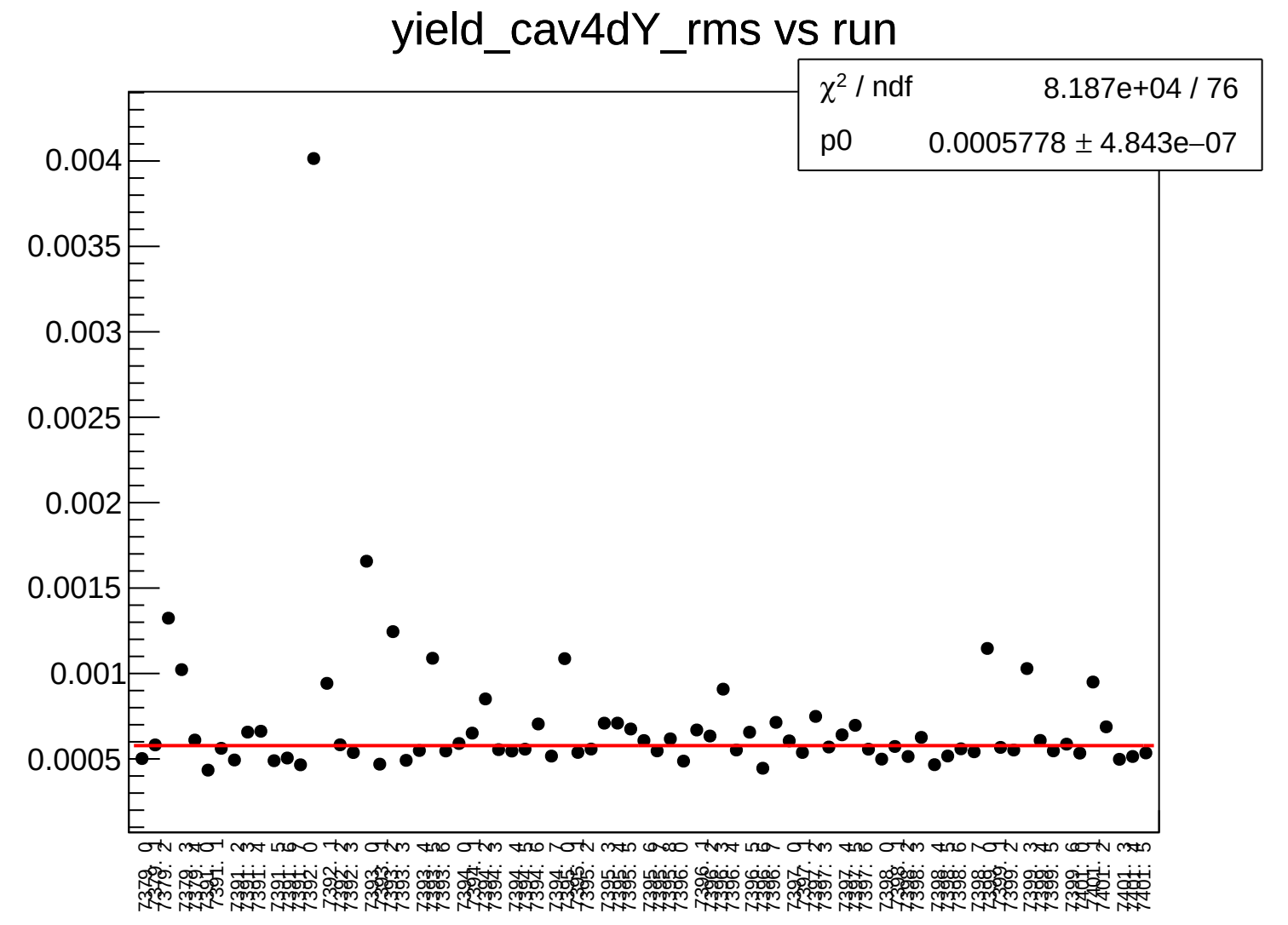

yield_cav4cY_rms vs run
χ² / ndf 1.424e+05 / 76
p0 0.001242 ± 1.064e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

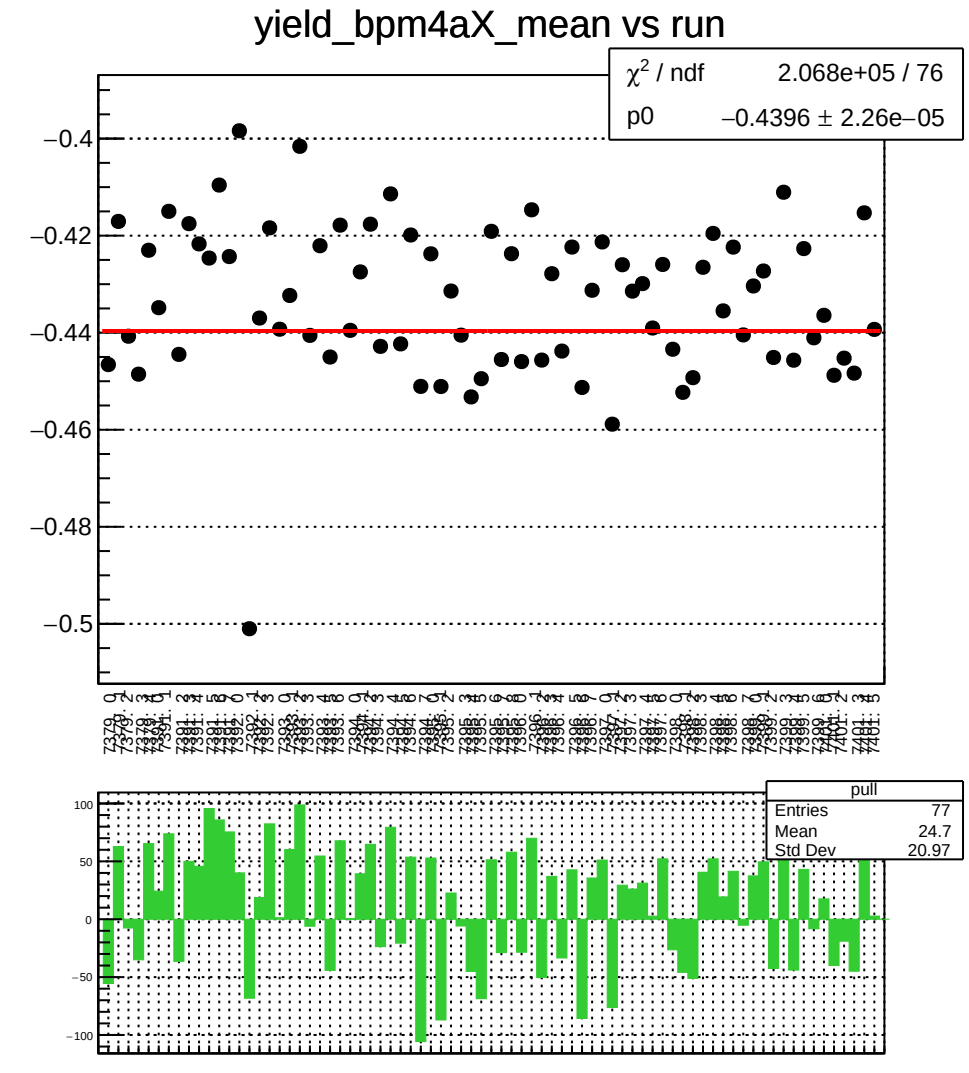

yield_cav4dX_mean vs run
χ² / ndf 4.134e+06 / 76
p0 0.1146 ± 1.096e−05
0.16
0.14
0.12
0.1
0.08
0.06
pull
Entries 77
Mean −62.14
Std Dev 56.43
600
400
200
0
−200
−400
−600
pull1D
Entries 77
Mean 1.179
Std Dev 1.794
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

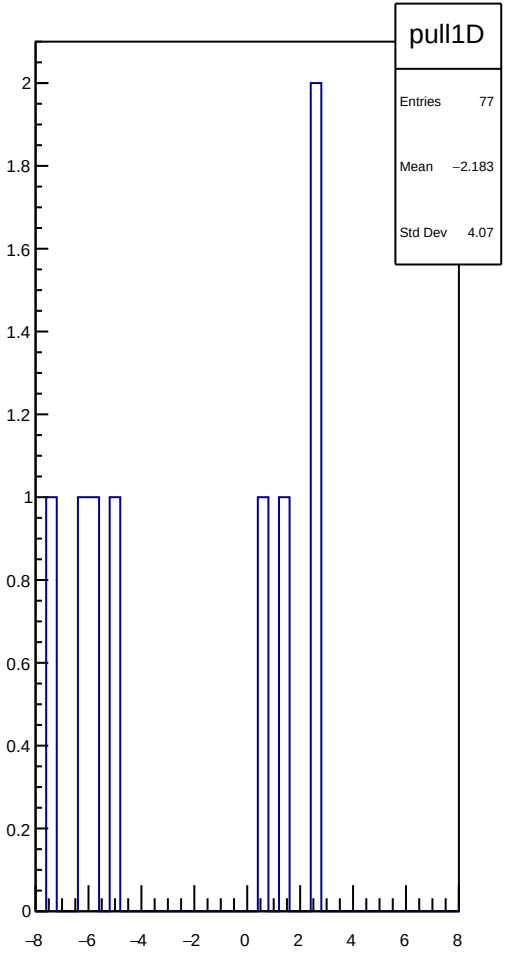

yield_cav4dX_rms vs run
χ² / ndf 2.383e+05 / 76
p0 0.008725 ± 7.751e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

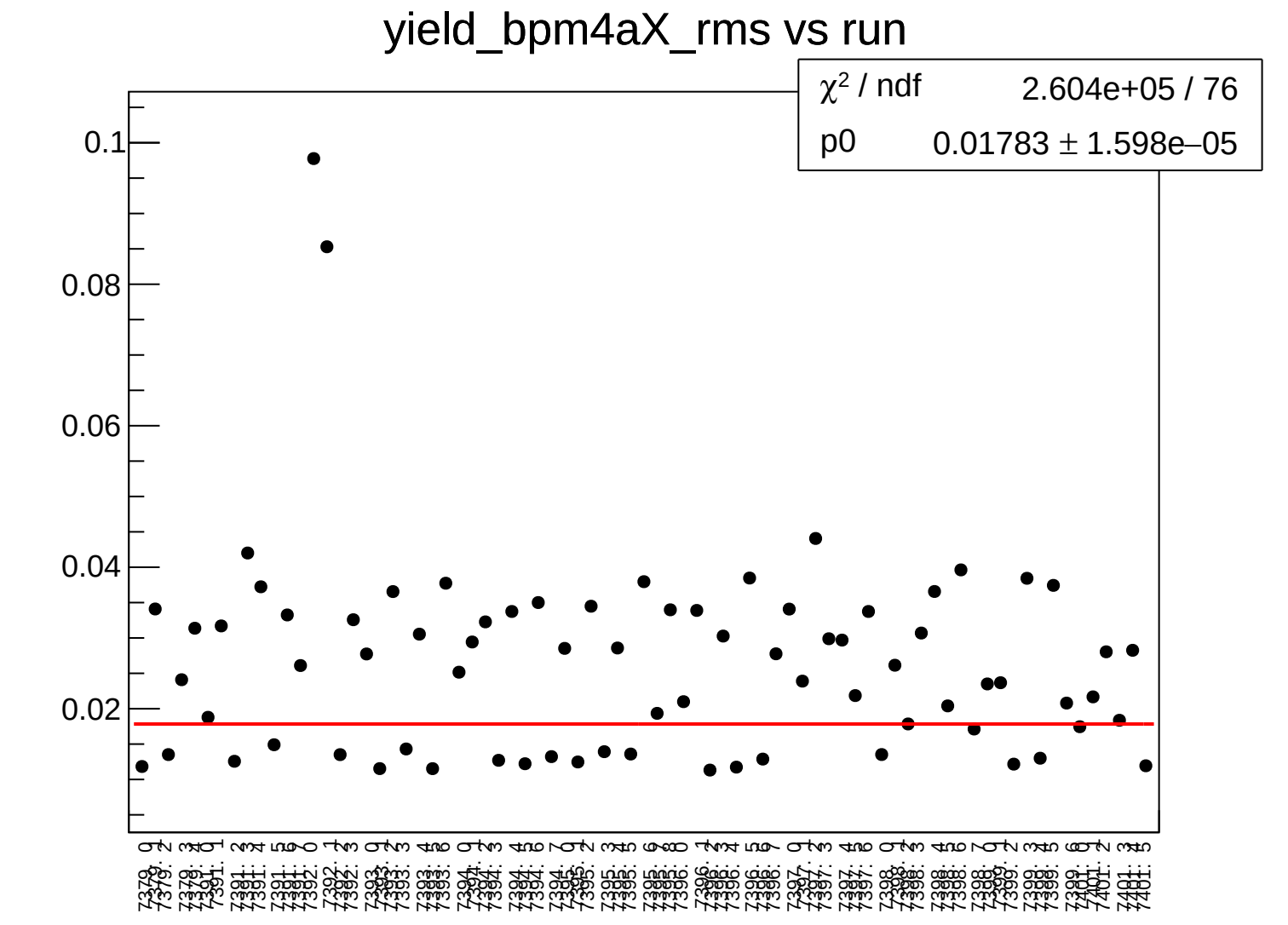

yield_cav4dY_mean vs run
χ² / ndf 6.144e+06 / 76
p0 −0.08108 ± 6.849e−07
pull
Entries 77
Mean 88.78
Std Dev 75.01

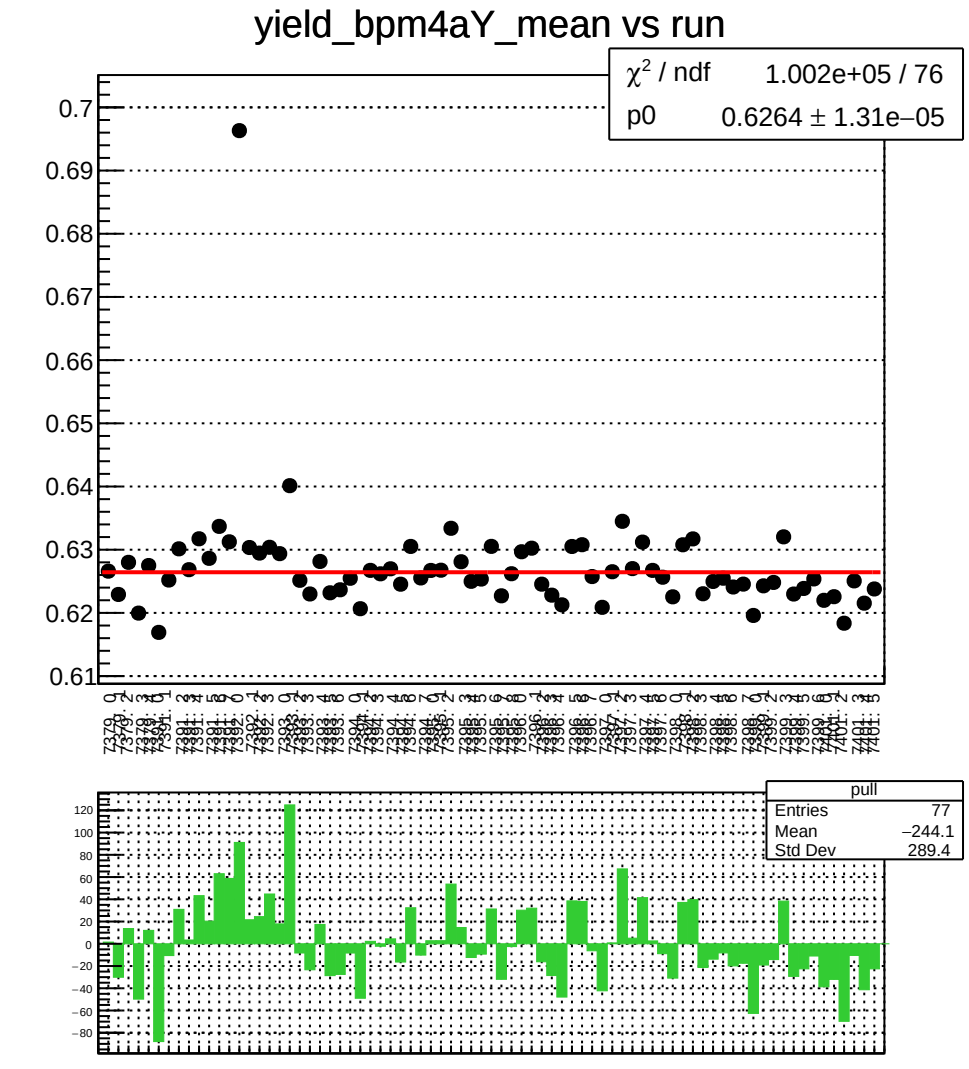

pull1D
Entries 77
Mean 0.6759
Std Dev 4.121

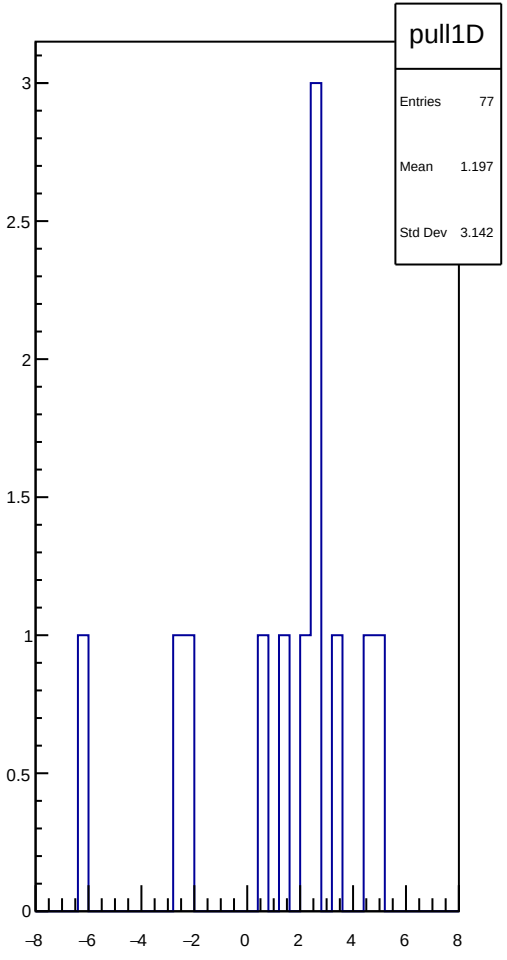

yield_cav4dY_rms vs run
χ² / ndf 8.187e+04 / 76
p0 0.0005778 ± 4.843e−07
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

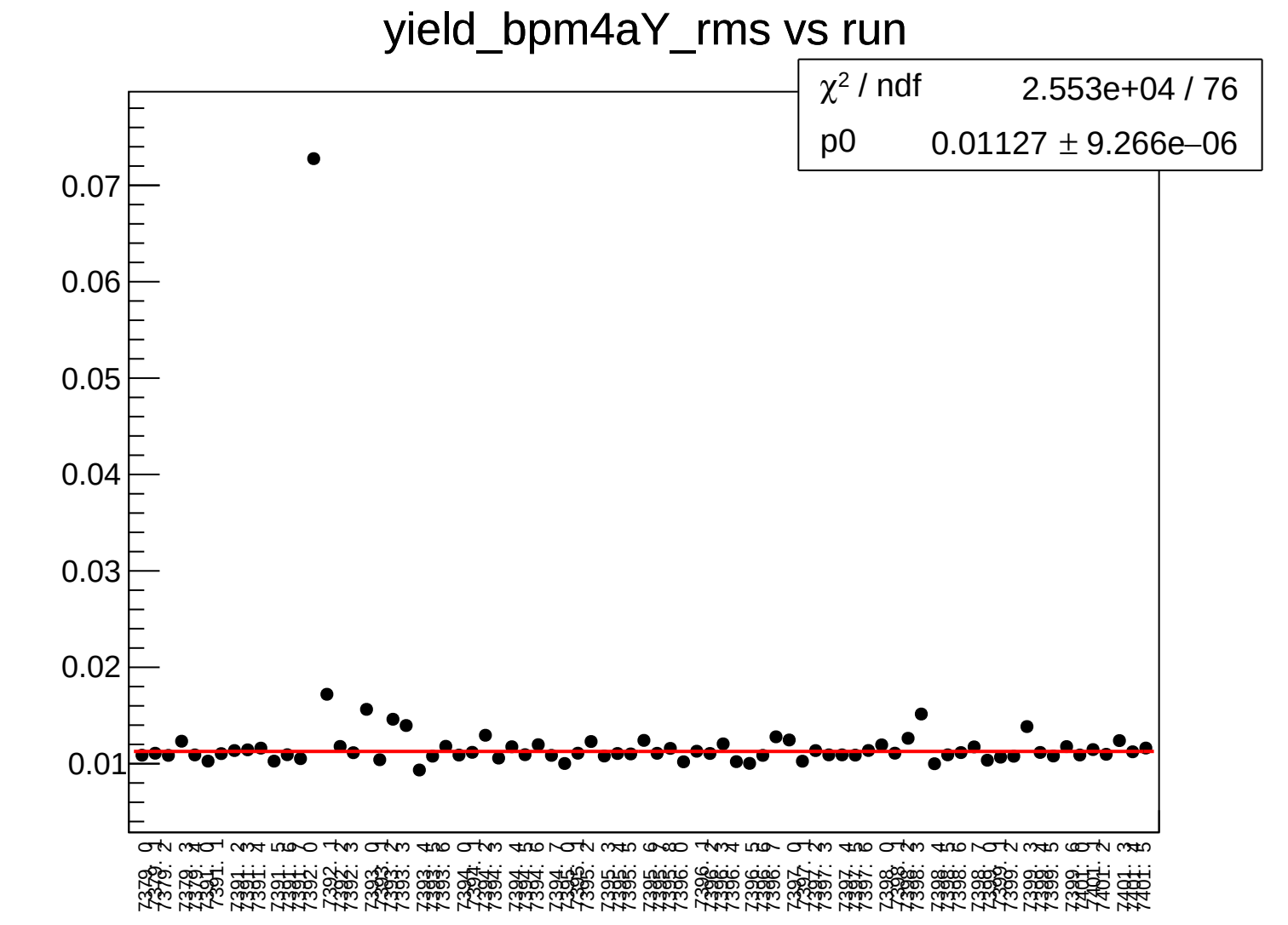

yield_bpm4aX_mean vs run
χ² / ndf 2.068e+05 / 76
p0 −0.4396 ± 2.26e−05
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
pull
Entries 77
Mean 24.7
Std Dev 20.97
100
50
0
−50
−100

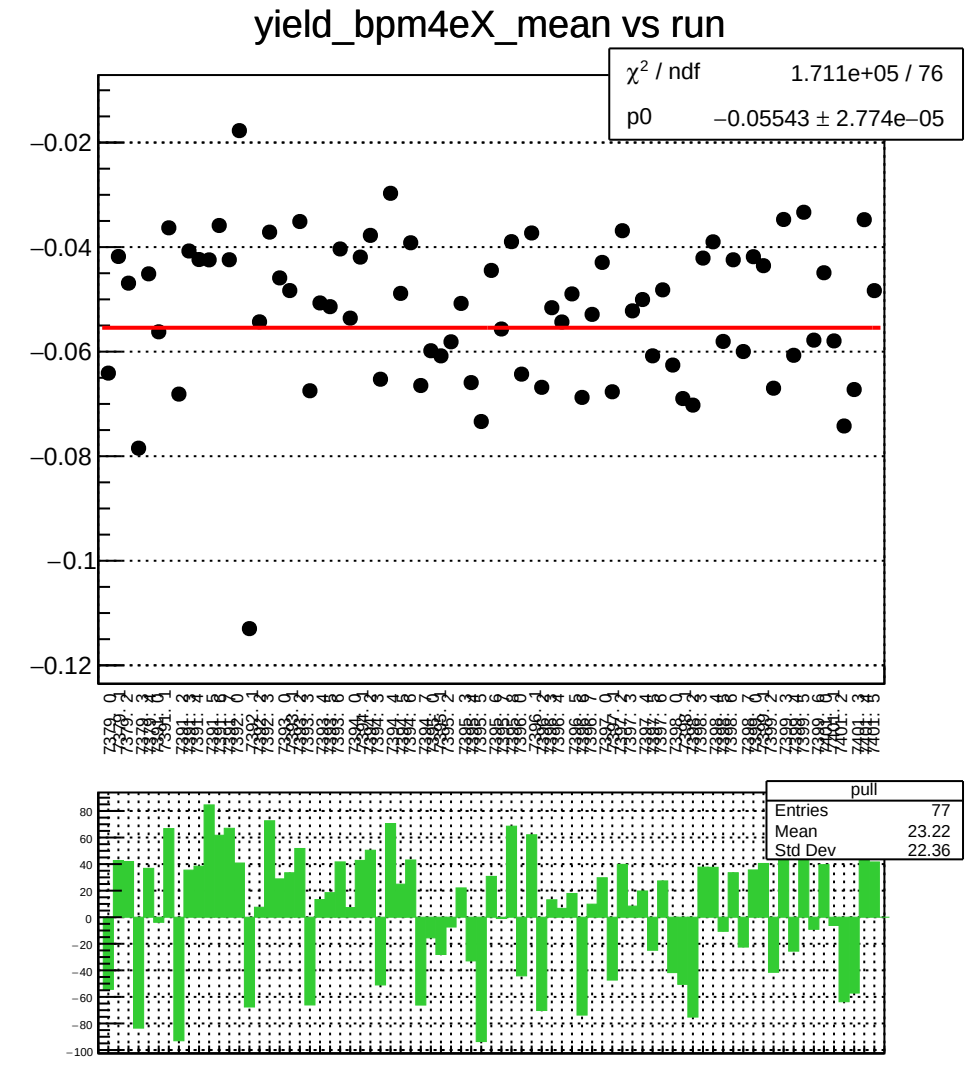

pull1D
Entries 77
Mean −2.183
Std Dev 4.07
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

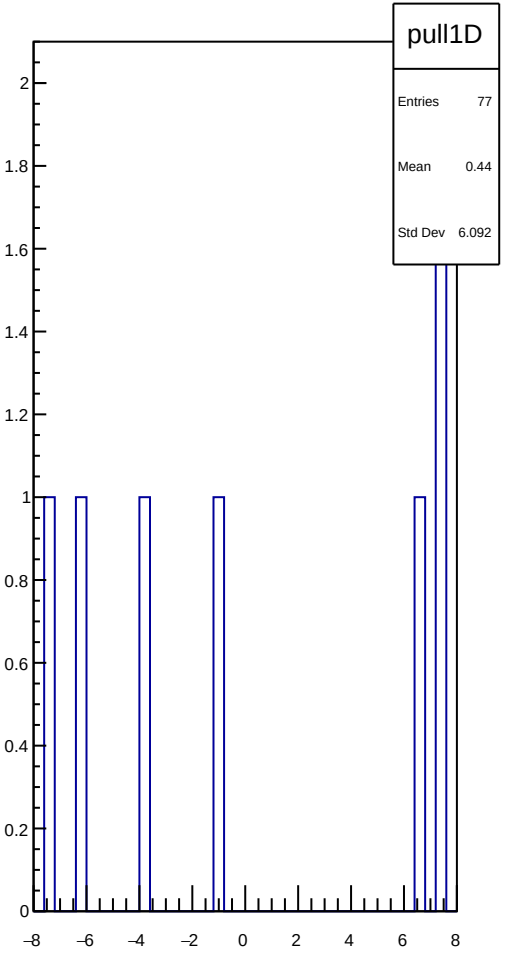

yield_bpm4aX_rms vs run
χ² / ndf 2.604e+05 / 76
p0 0.01783 ± 1.598e–05
0.1
0.08
0.06
0.04
0.02

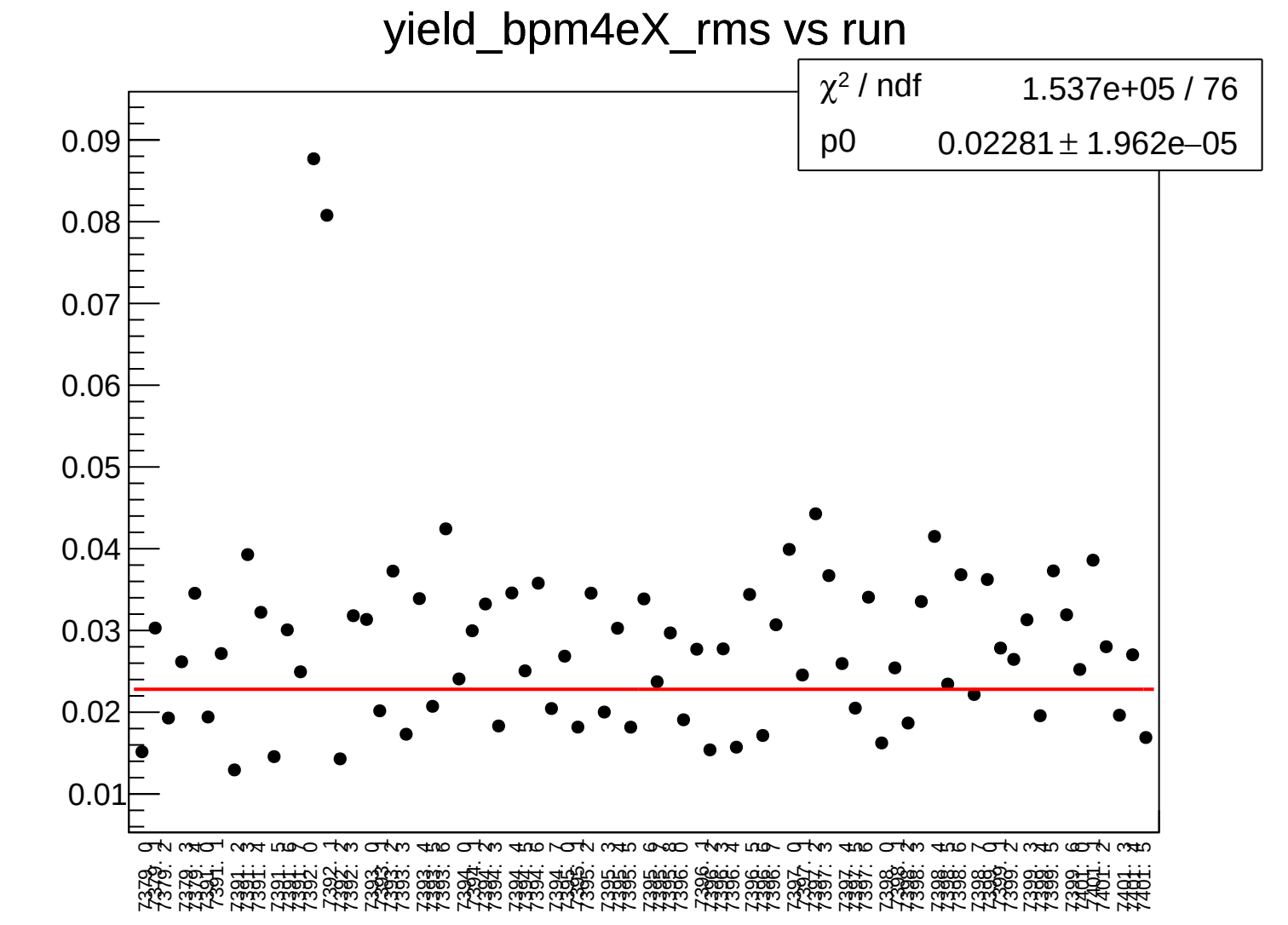

yield_bpm4aY_mean vs run
χ² / ndf 1.002e+05 / 76
p0 0.6264 ± 1.31e−05
pull
Entries 77
Mean −244.1
Std Dev 289.4

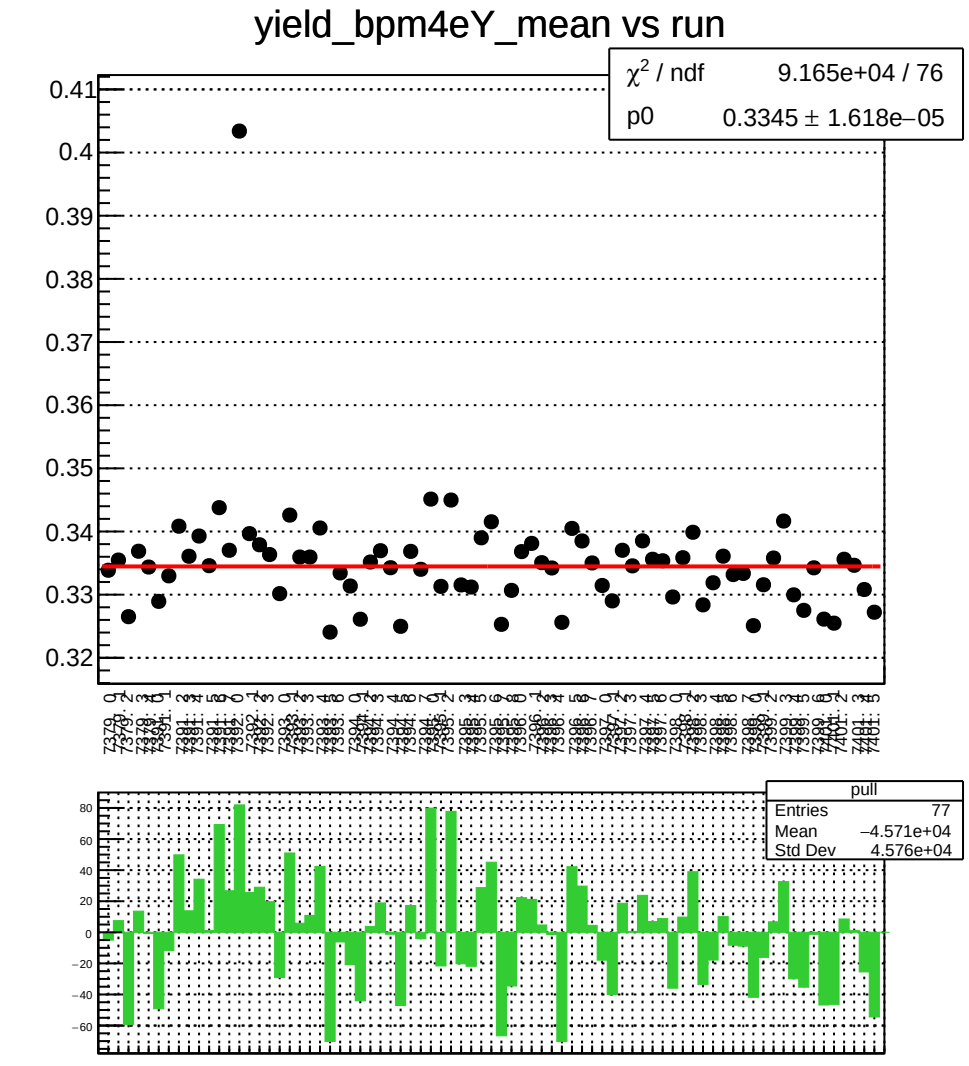

pull1D
Entries 77
Mean 1.197
Std Dev 3.142

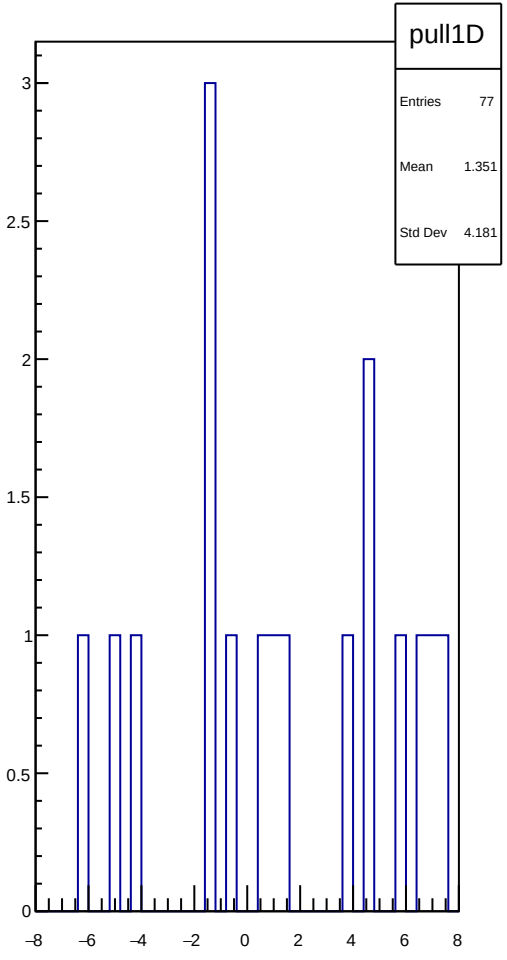

yield_bpm4aY_rms vs run
χ² / ndf 2.553e+04 / 76
p0 0.01127 ± 9.266e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

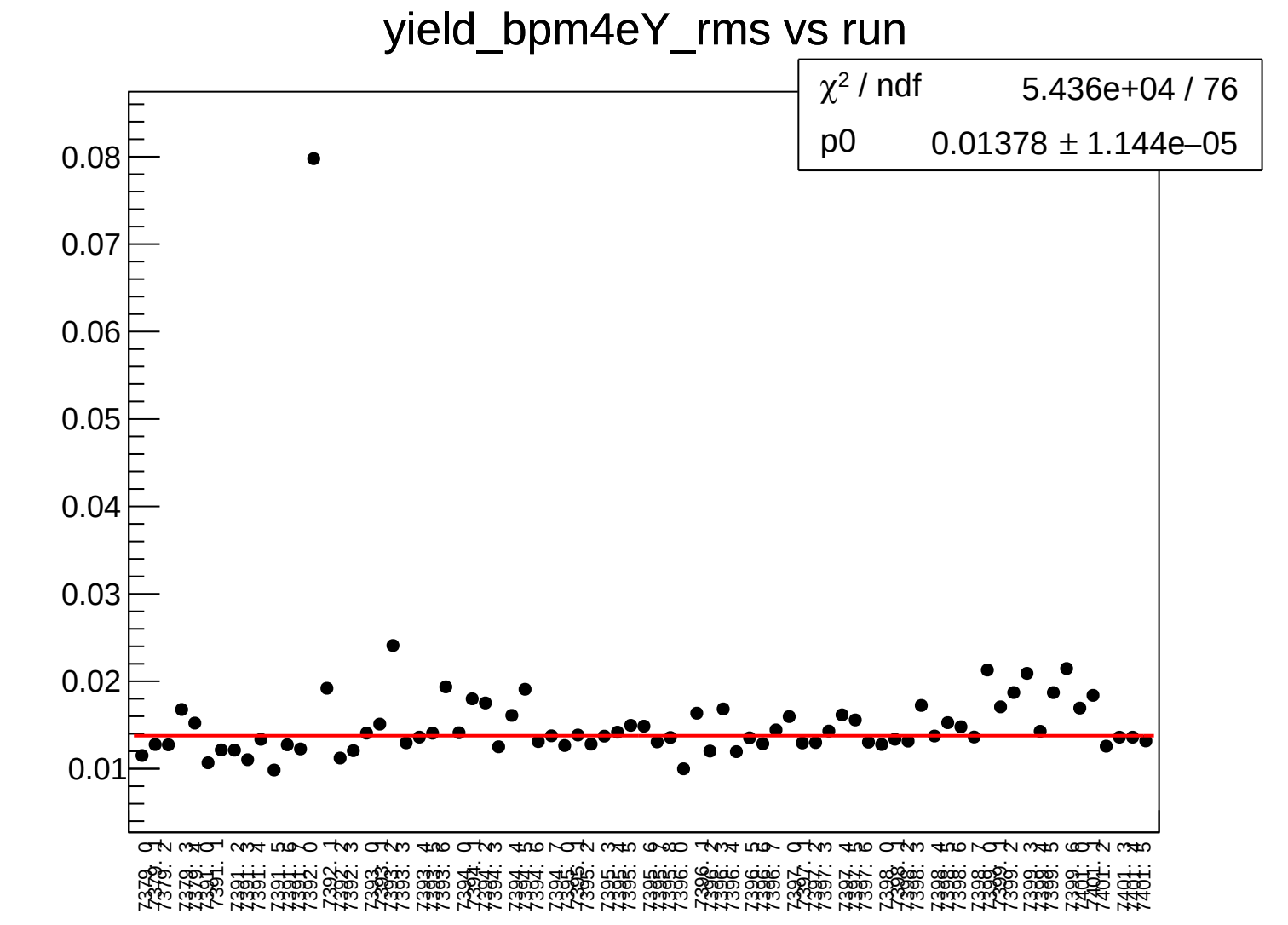

yield_bpm4eX_mean vs run
χ² / ndf 1.711e+05 / 76
p0 −0.05543 ± 2.774e−05
pull
Entries 77
Mean 23.22
Std Dev 22.36

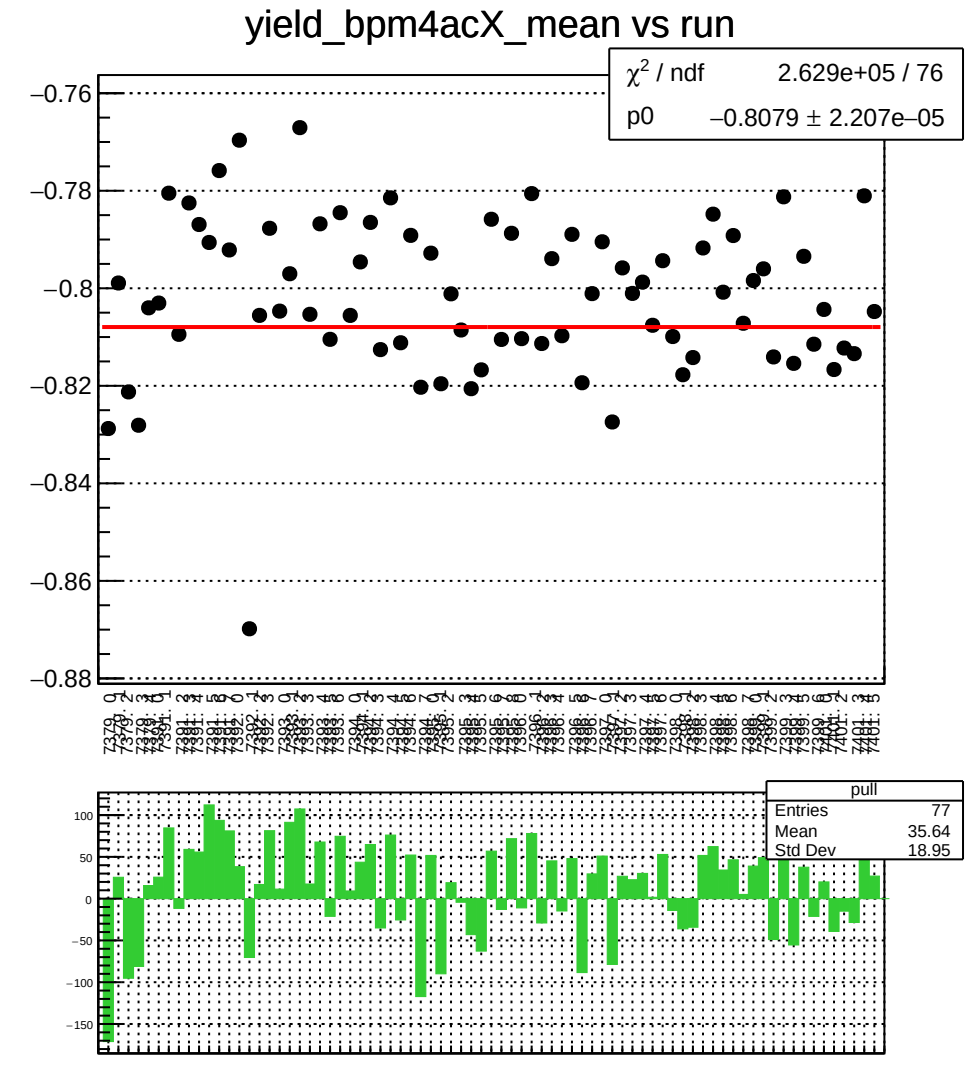

pull1D
Entries 77
Mean 0.44
Std Dev 6.092

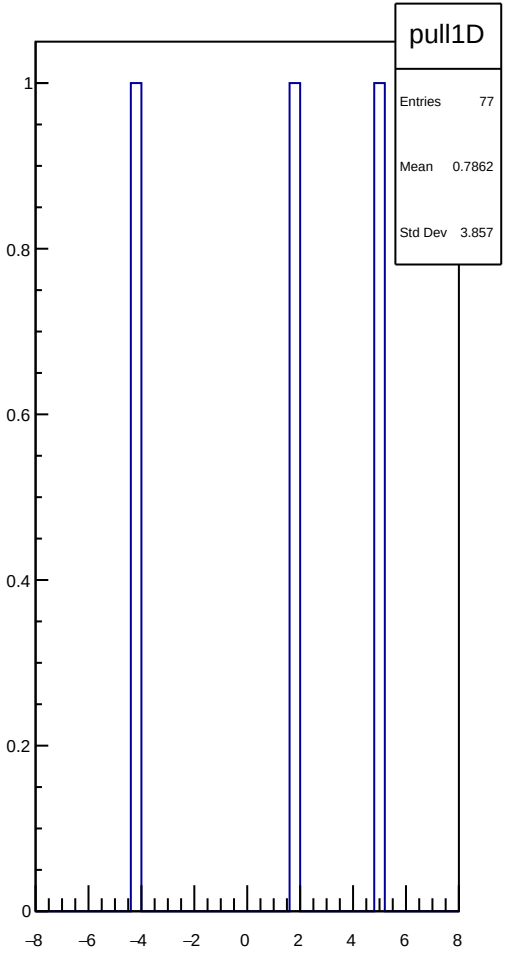

yield_bpm4eX_rms vs run
χ^2 / ndf 1.537e+05 / 76
p0 0.02281 ± 1.962e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

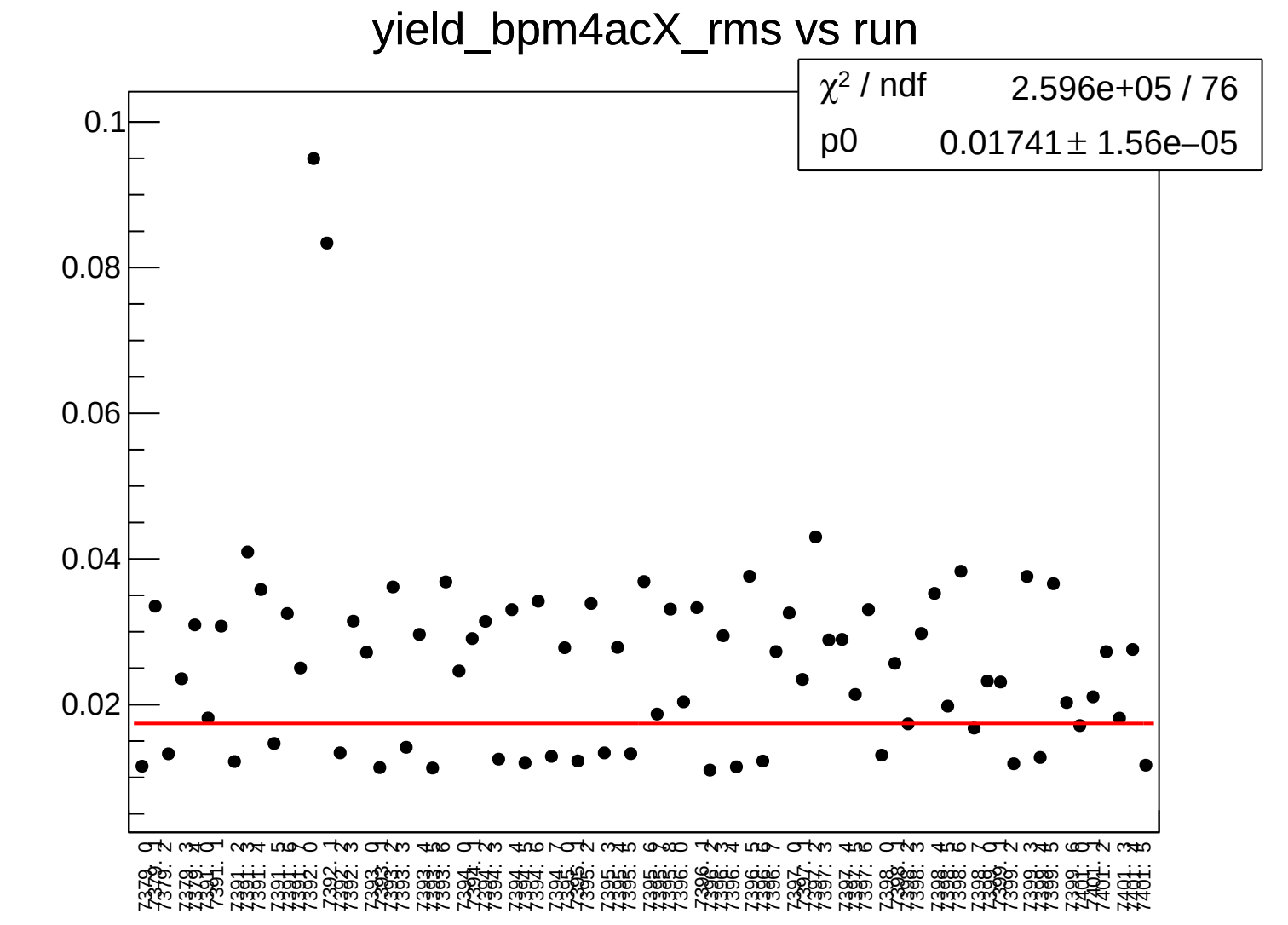

yield_bpm4eY_mean vs run
χ² / ndf 9.165e+04 / 76
p0 0.3345 ± 1.618e−05
pull
Entries 77
Mean −4.571e+04
Std Dev 4.576e+04

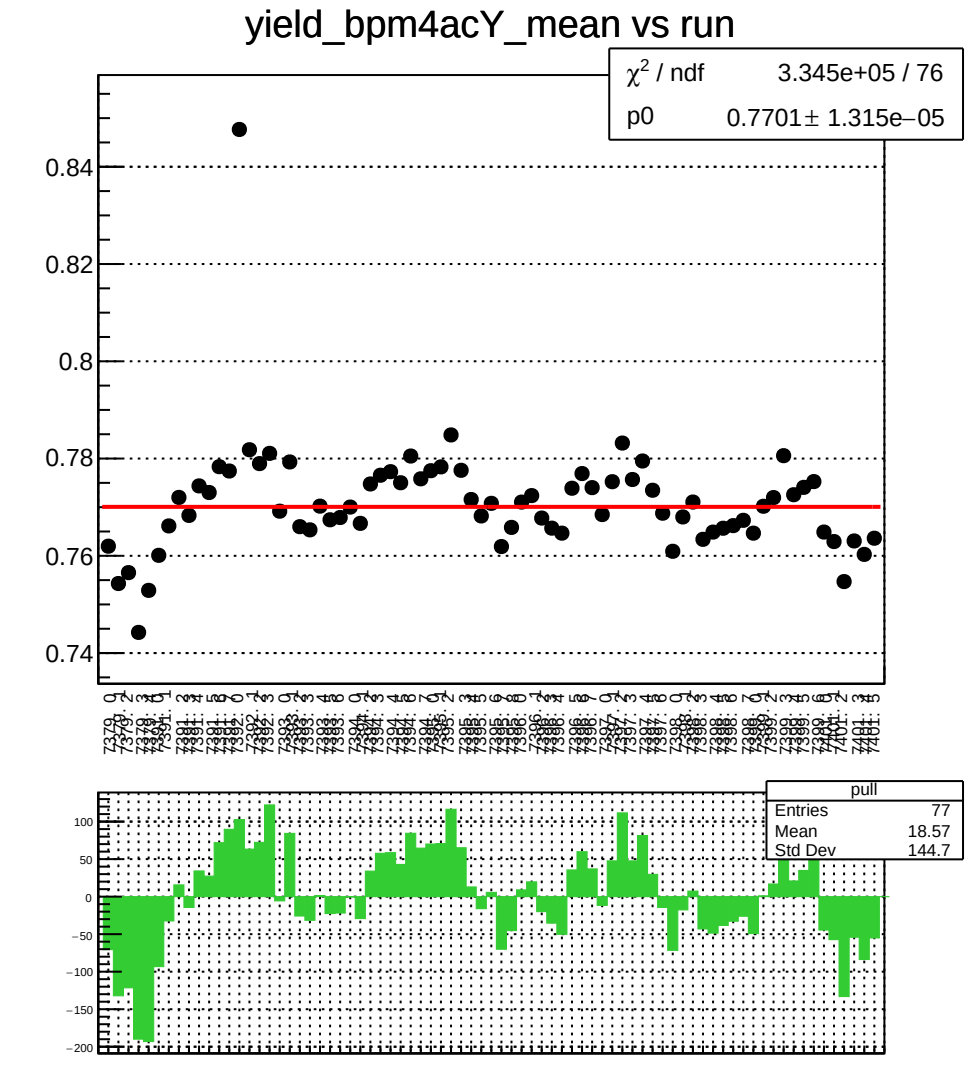

pull1D
Entries 77
Mean 1.351
Std Dev 4.181

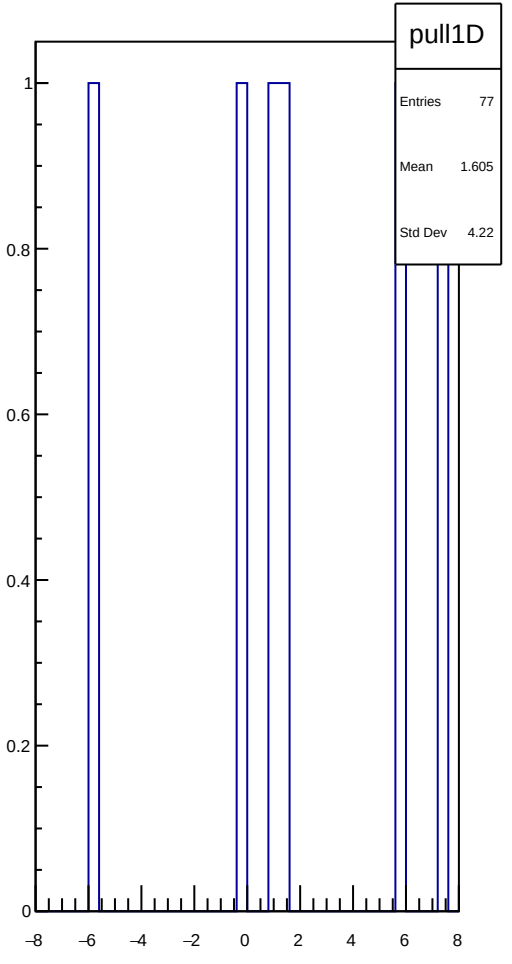

yield_bpm4eY_rms vs run
χ² / ndf 5.436e+04 / 76
p0 0.01378 ± 1.144e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

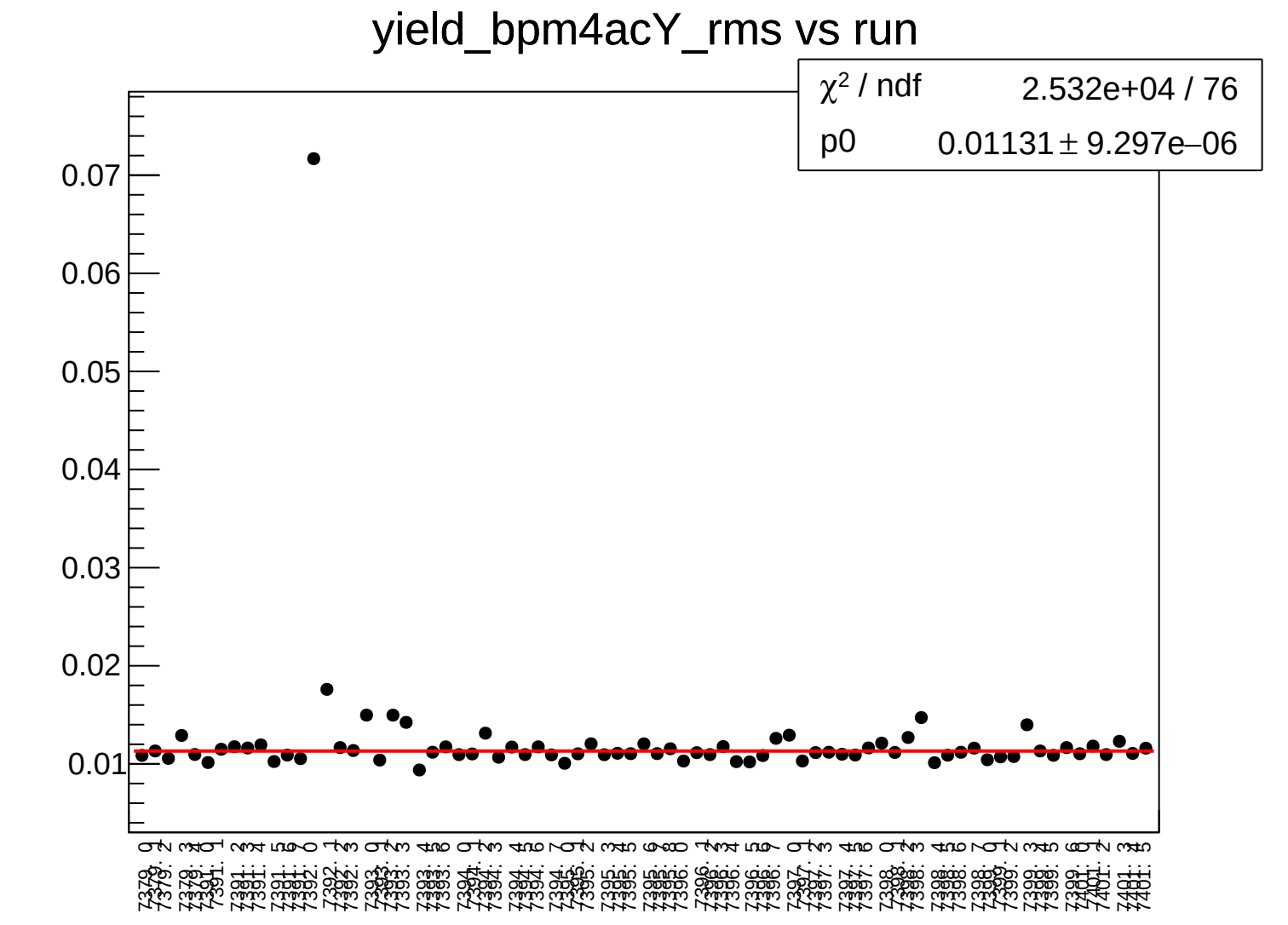

yield_bpm4acX_mean vs run
χ² / ndf 2.629e+05 / 76
p0 −0.8079 ± 2.207e−05
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
pull
Entries 77
Mean 35.64
Std Dev 18.95
100
50
0
−50
−100
−150

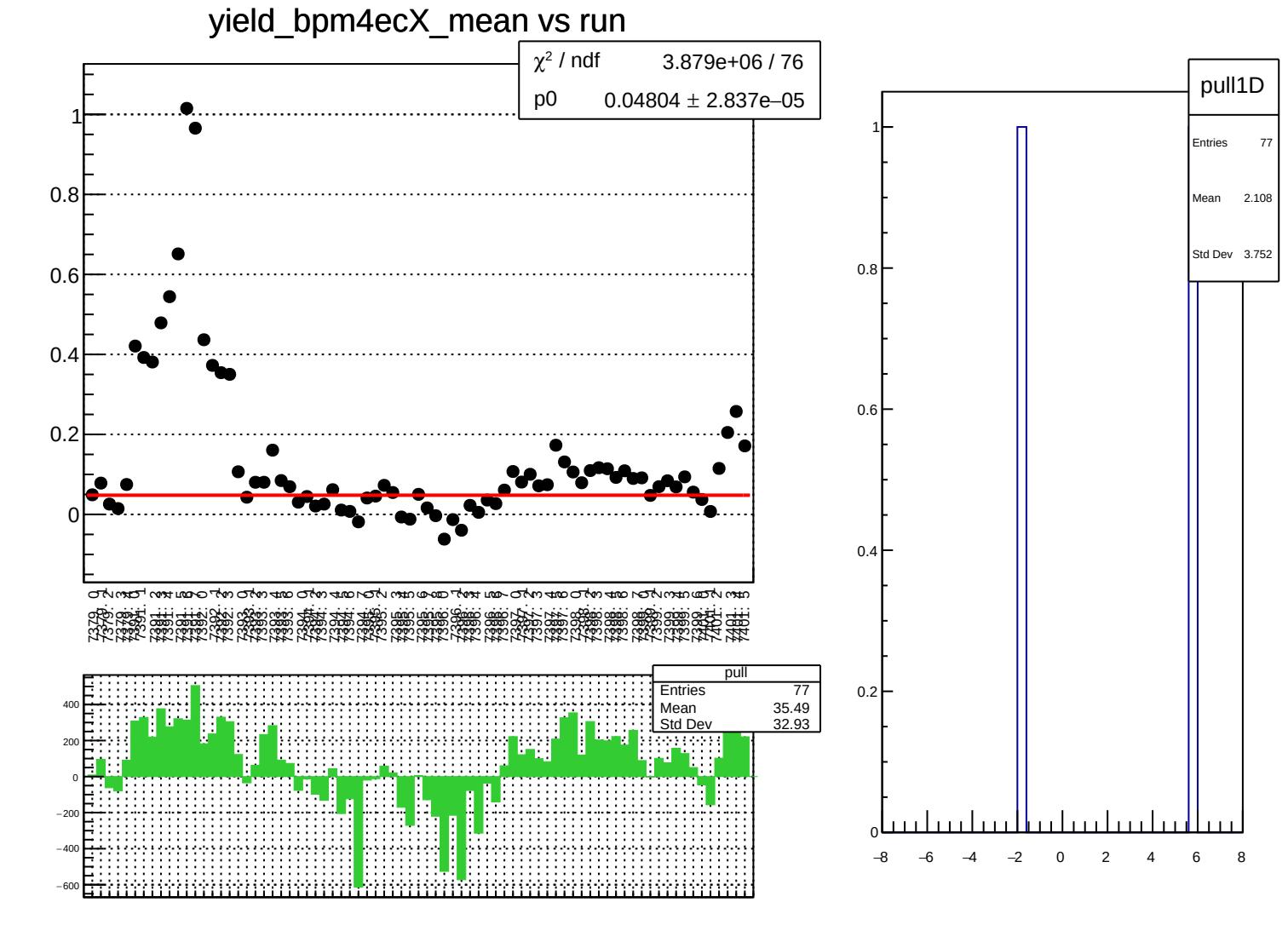

pull1D
Entries 77
Mean 0.7862
Std Dev 3.857
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

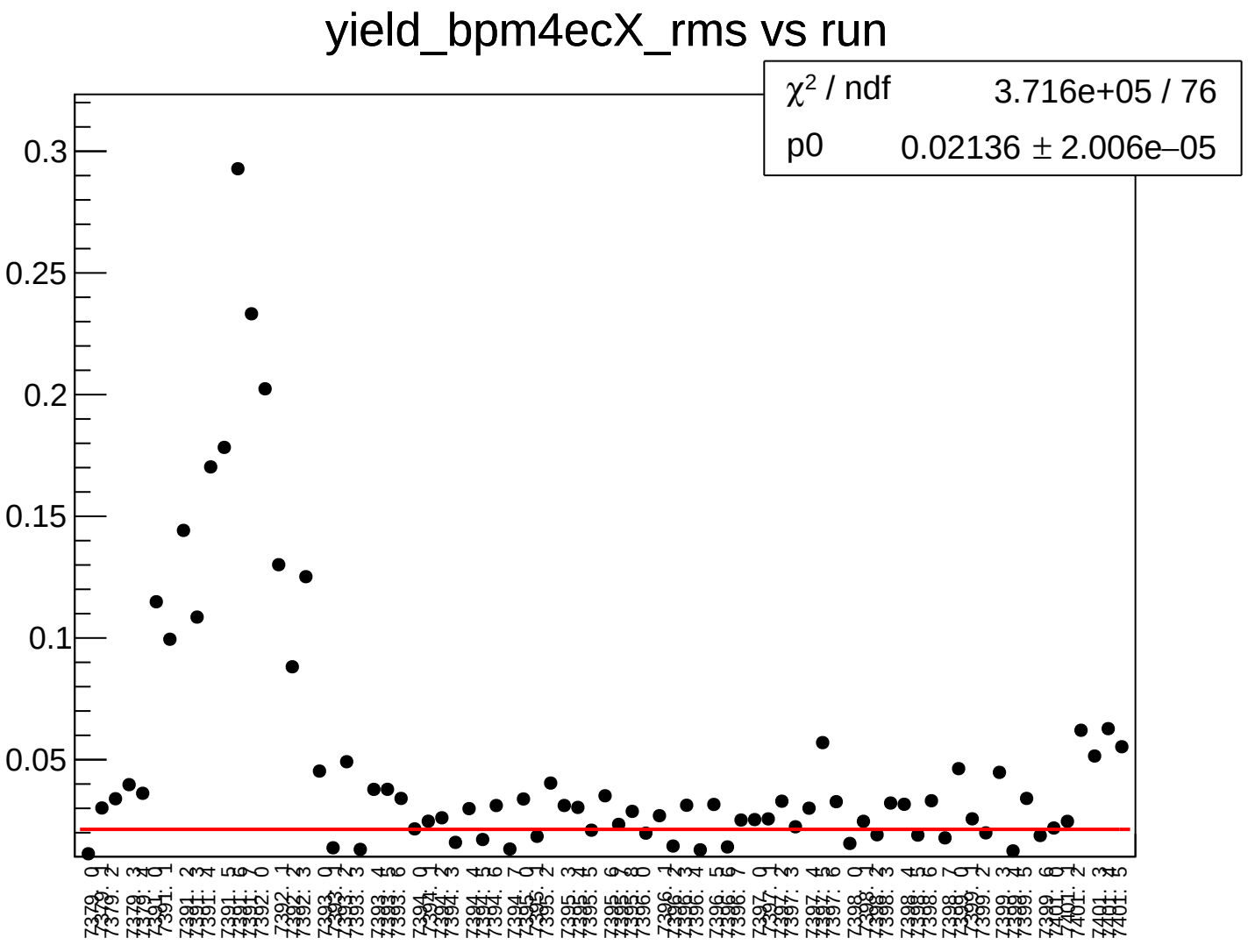

yield_bpm4acX_rms vs run
χ² / ndf 2.596e+05 / 76
p0 0.01741 ± 1.56e–05
0.1
0.08
0.06
0.04
0.02

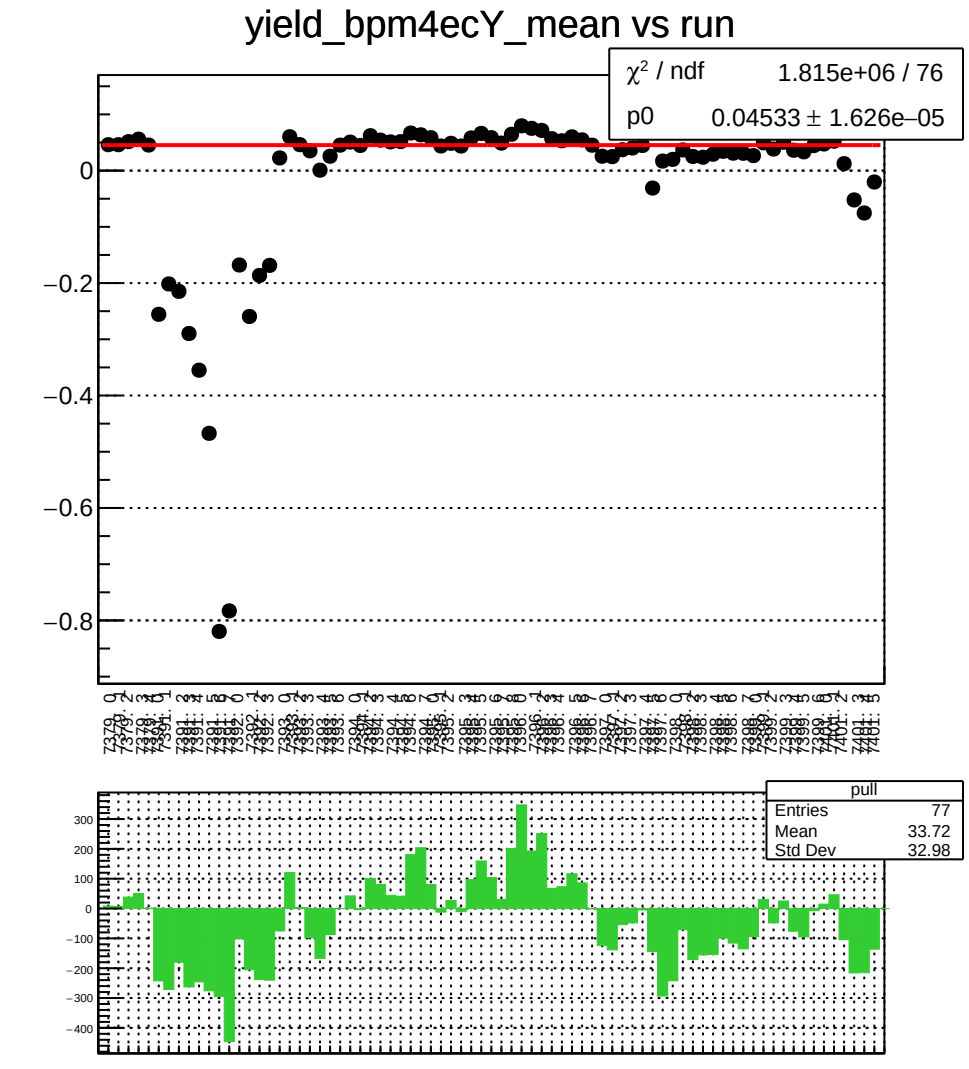

yield_bpm4acY_mean vs run
χ² / ndf 3.345e+05 / 76
p0 0.7701 ± 1.315e−05
0.84
0.82
0.8
0.78
0.76
0.74
pull
Entries 77
Mean 18.57
Std Dev 144.7
100
50
0
−50
−100
−150
−200

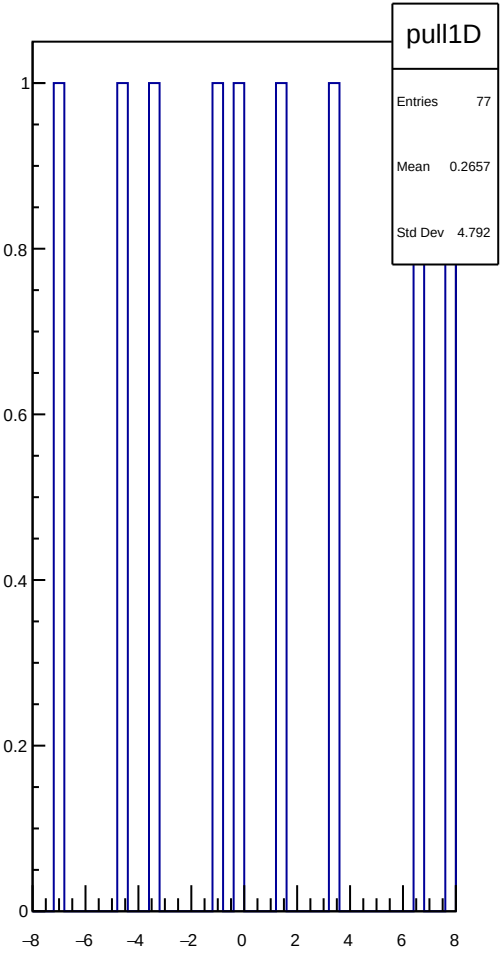

pull1D
Entries 77
Mean 1.605
Std Dev 4.22
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

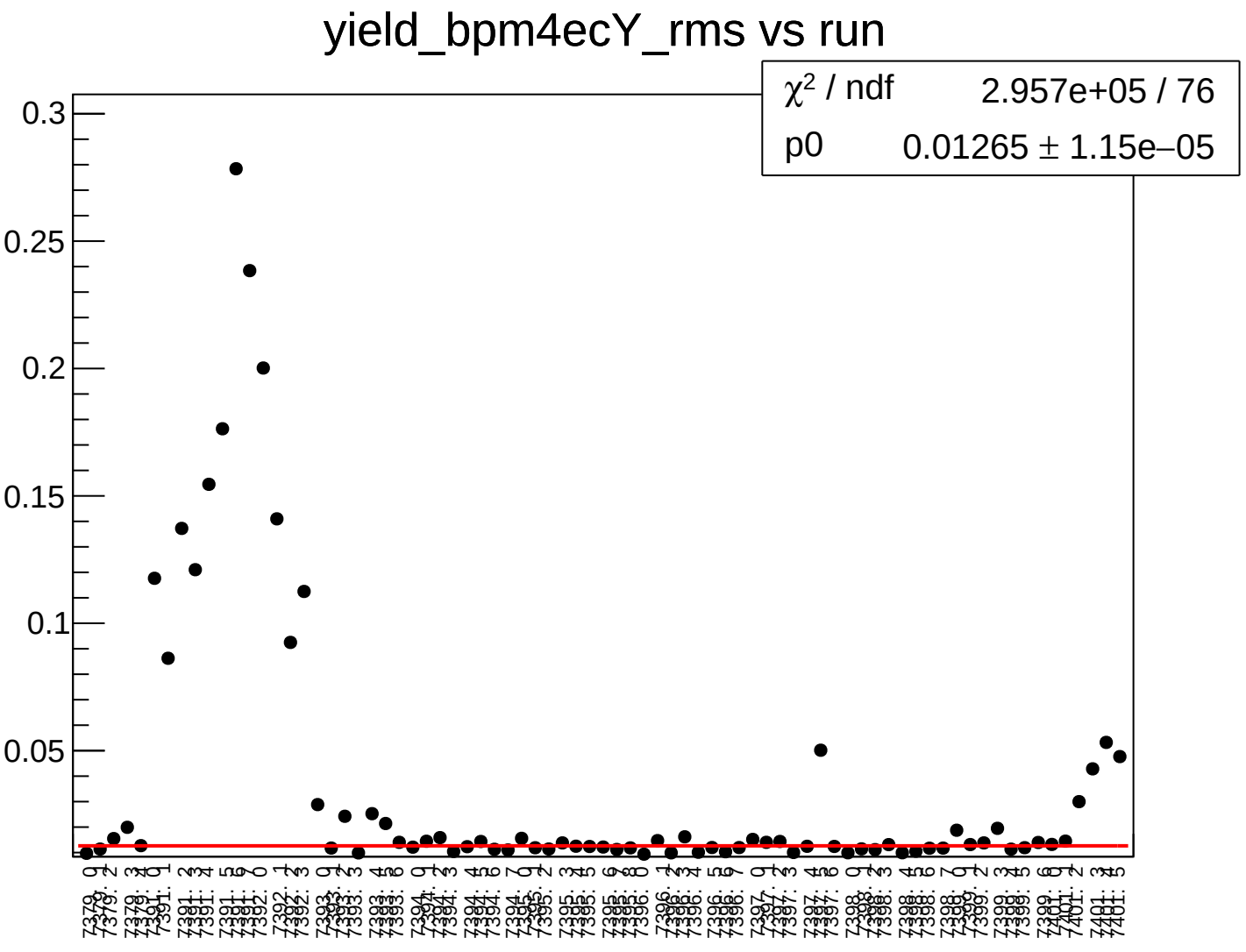

yield_bpm4acY_rms vs run
χ² / ndf 2.532e+04 / 76
p0 0.01131 ± 9.297e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

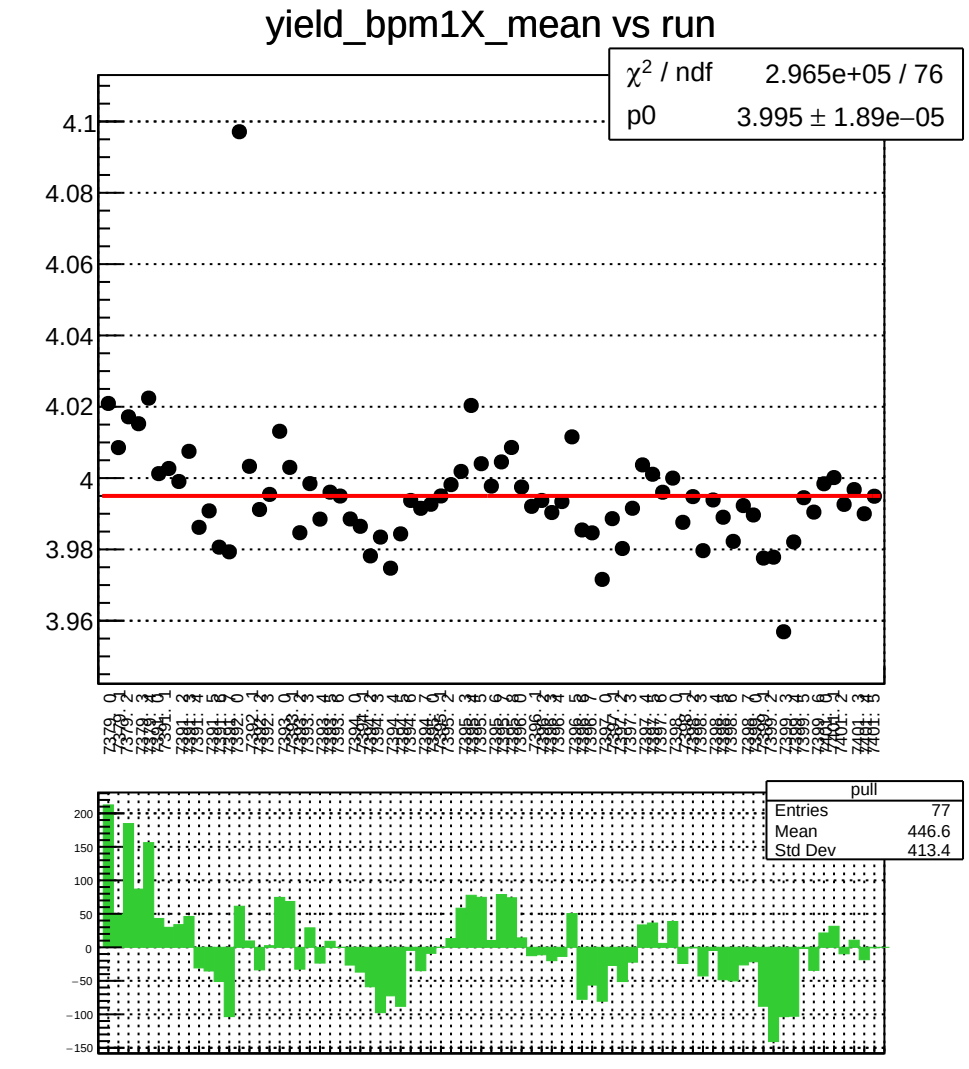

yield_bpm4ecX_mean vs run
χ² / ndf 3.879e+06 / 76
p0 0.04804 ± 2.837e−05
pull
Entries 77
Mean 35.49
Std Dev 32.93
pull1D
Entries 77
Mean 2.108
Std Dev 3.752

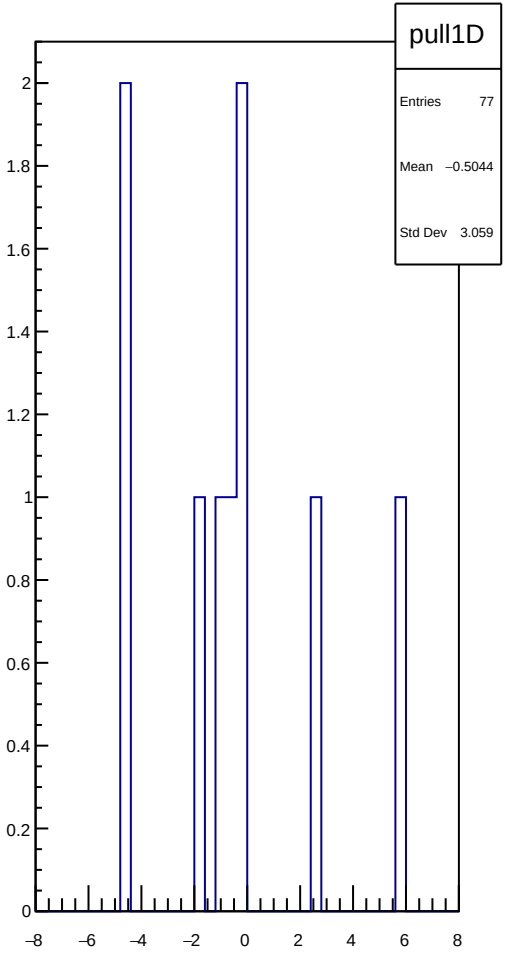

yield_bpm4ecX_rms vs run
χ² / ndf 3.716e+05 / 76
p0 0.02136 ± 2.006e–05
0.3
0.25
0.2
0.15
0.1
0.05

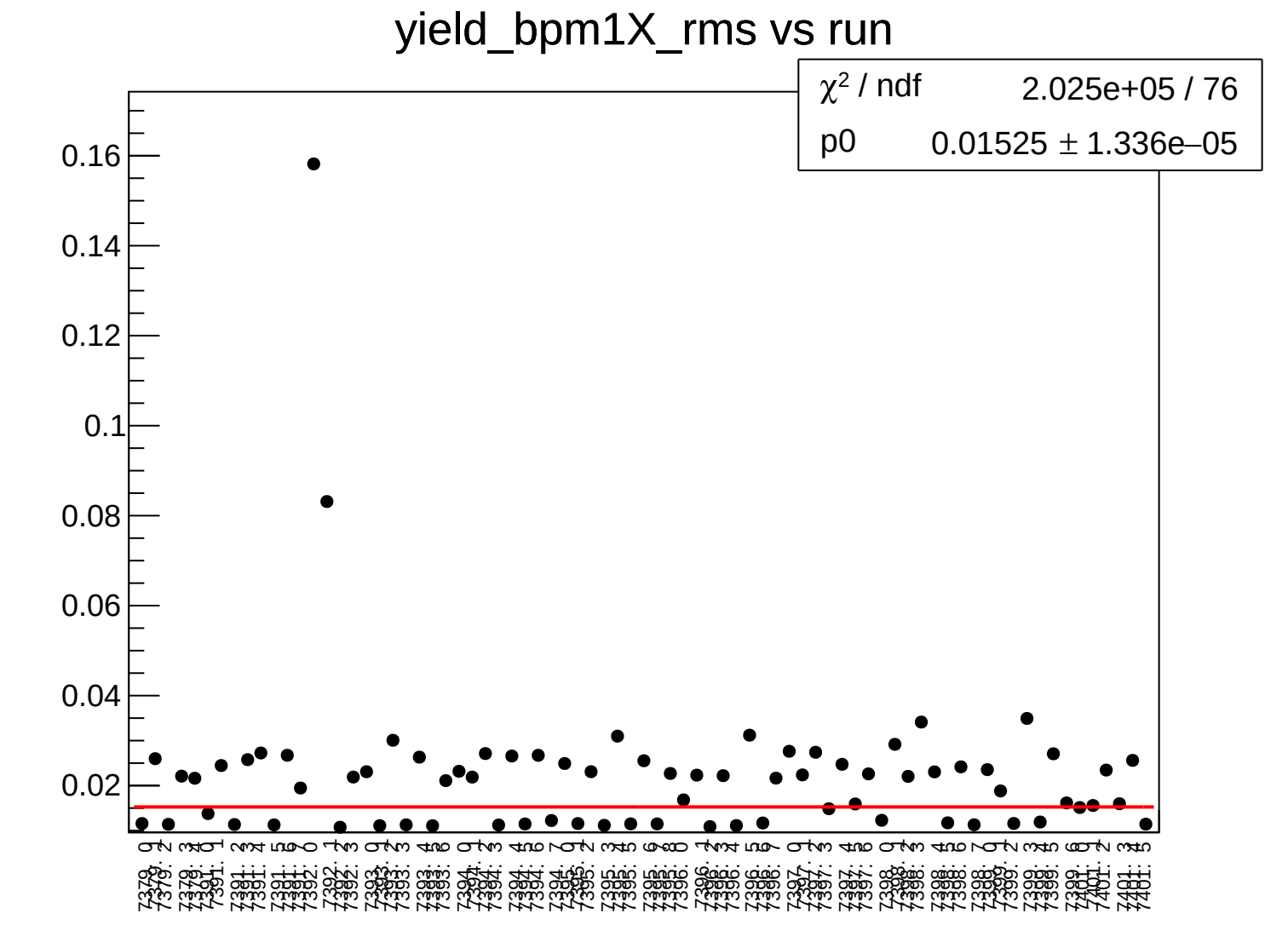

yield_bpm4ecY_mean vs run
χ² / ndf 1.815e+06 / 76
p0 0.04533 ± 1.626e−05
pull
Entries 77
Mean 33.72
Std Dev 32.98

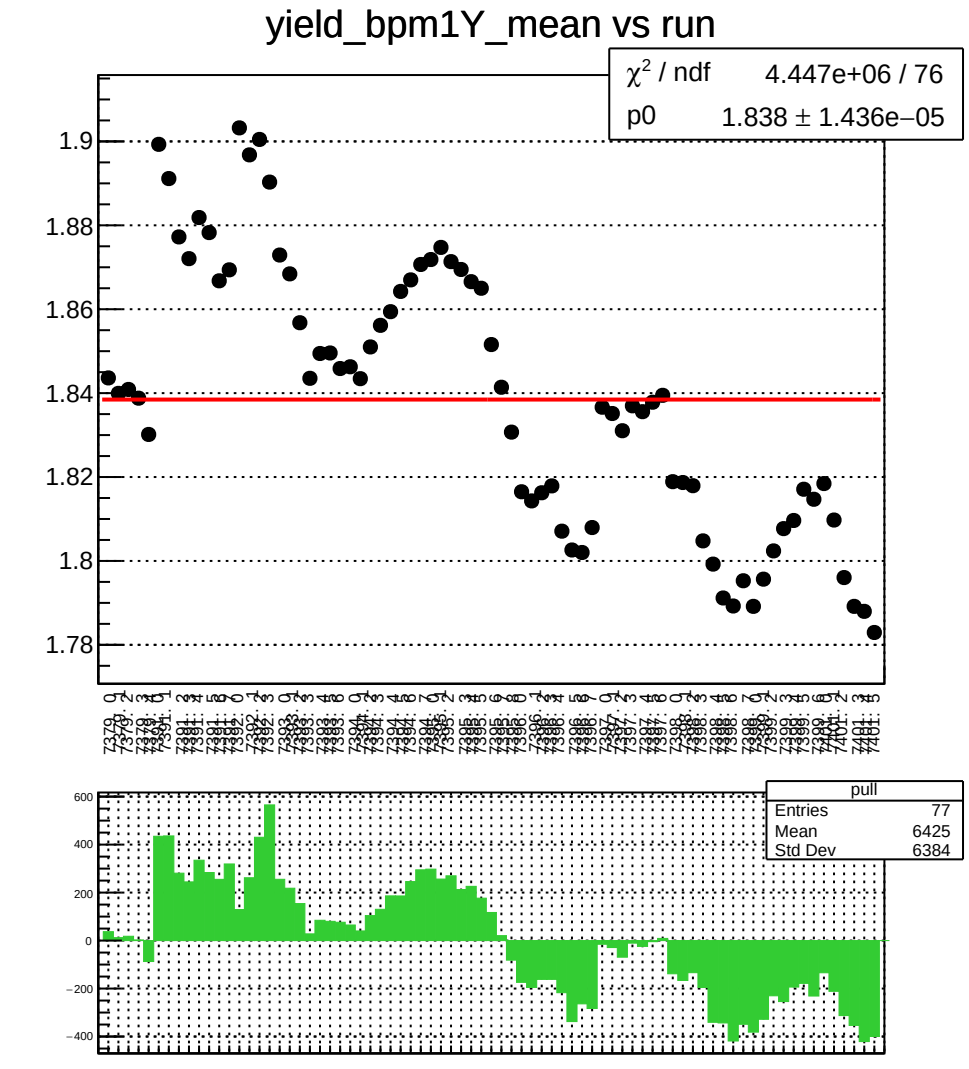

pull1D
Entries 77
Mean 0.2657
Std Dev 4.792

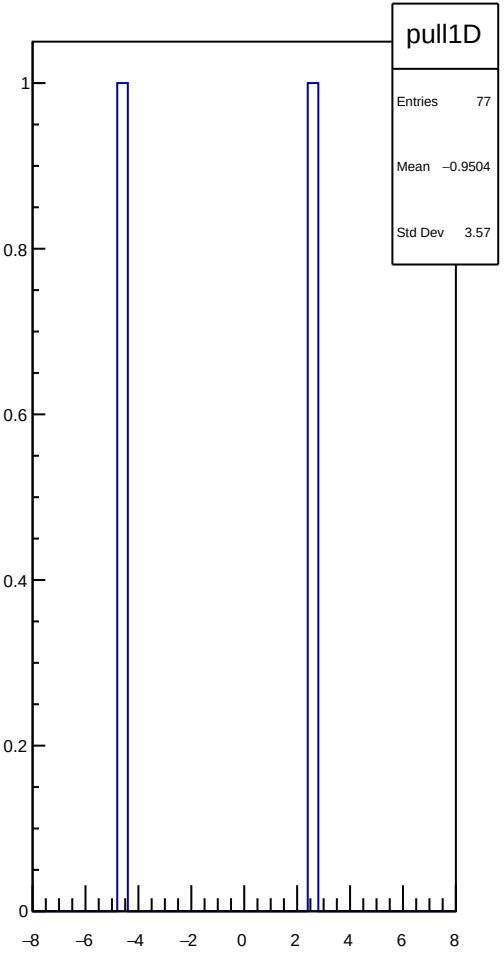

yield_bpm4ecY_rms vs run
χ² / ndf 2.957e+05 / 76
p0 0.01265 ± 1.15e−05
0.3
0.25
0.2
0.15
0.1
0.05

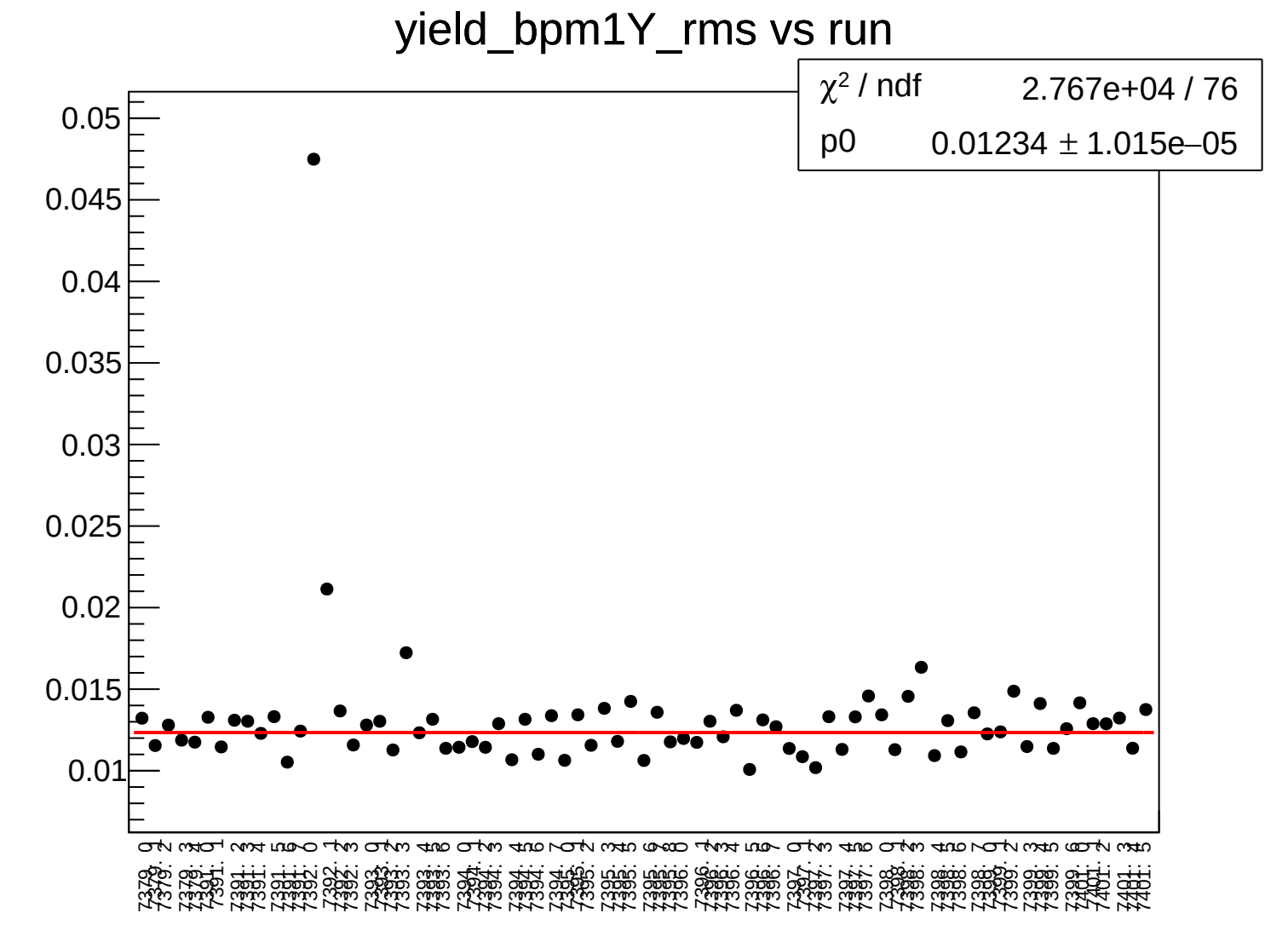

yield_bpm1X_mean vs run
χ² / ndf 2.965e+05 / 76
p0 3.995 ± 1.89e−05
pull
Entries 77
Mean 446.6
Std Dev 413.4

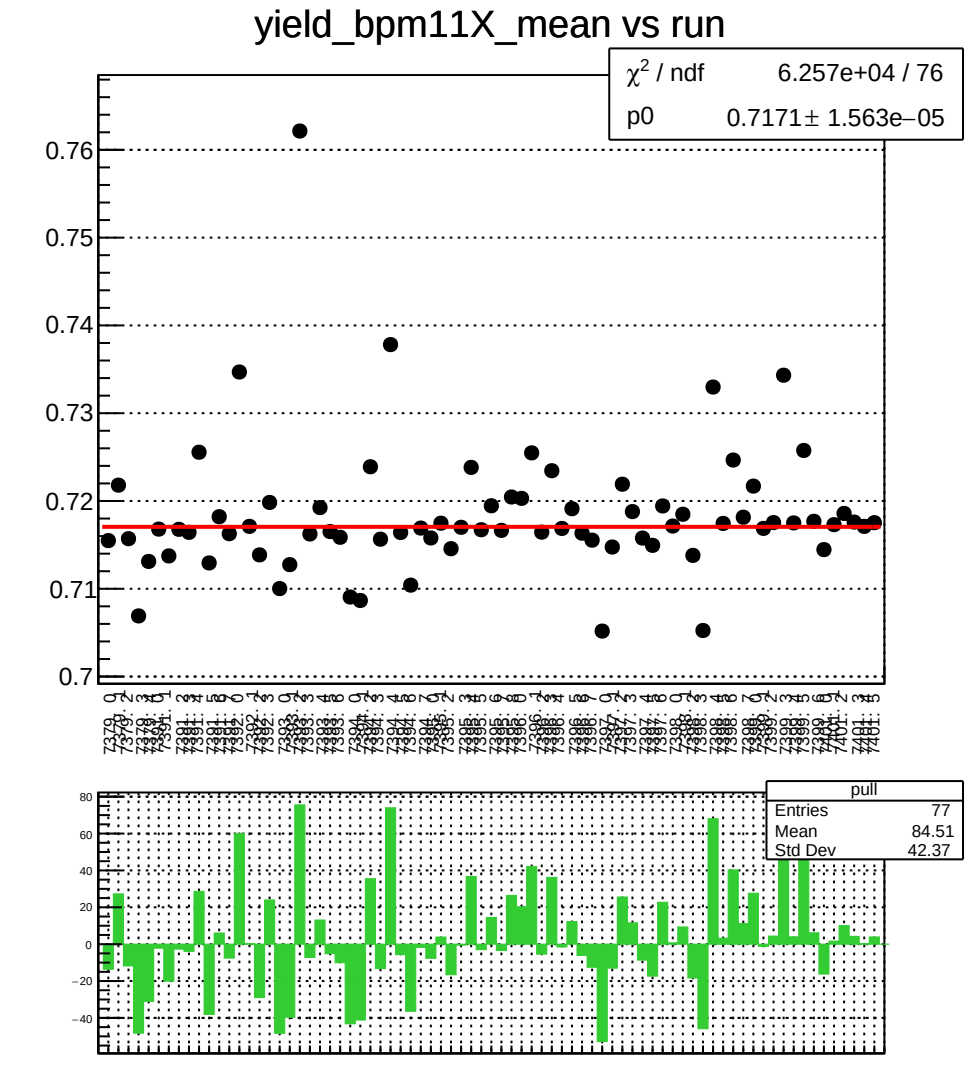

pull1D
Entries 77
Mean −0.5044
Std Dev 3.059

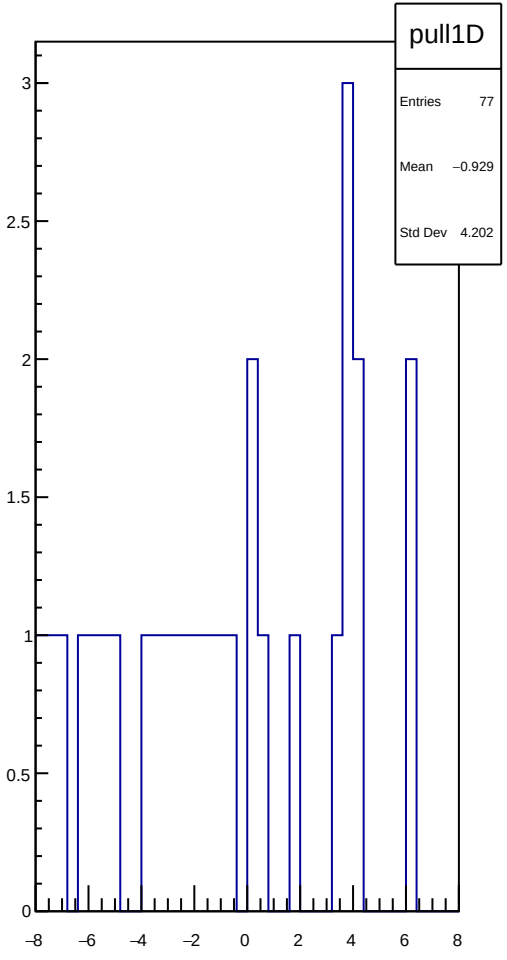

yield_bpm1X_rms vs run
χ² / ndf 2.025e+05 / 76
p0 0.01525 ± 1.336e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

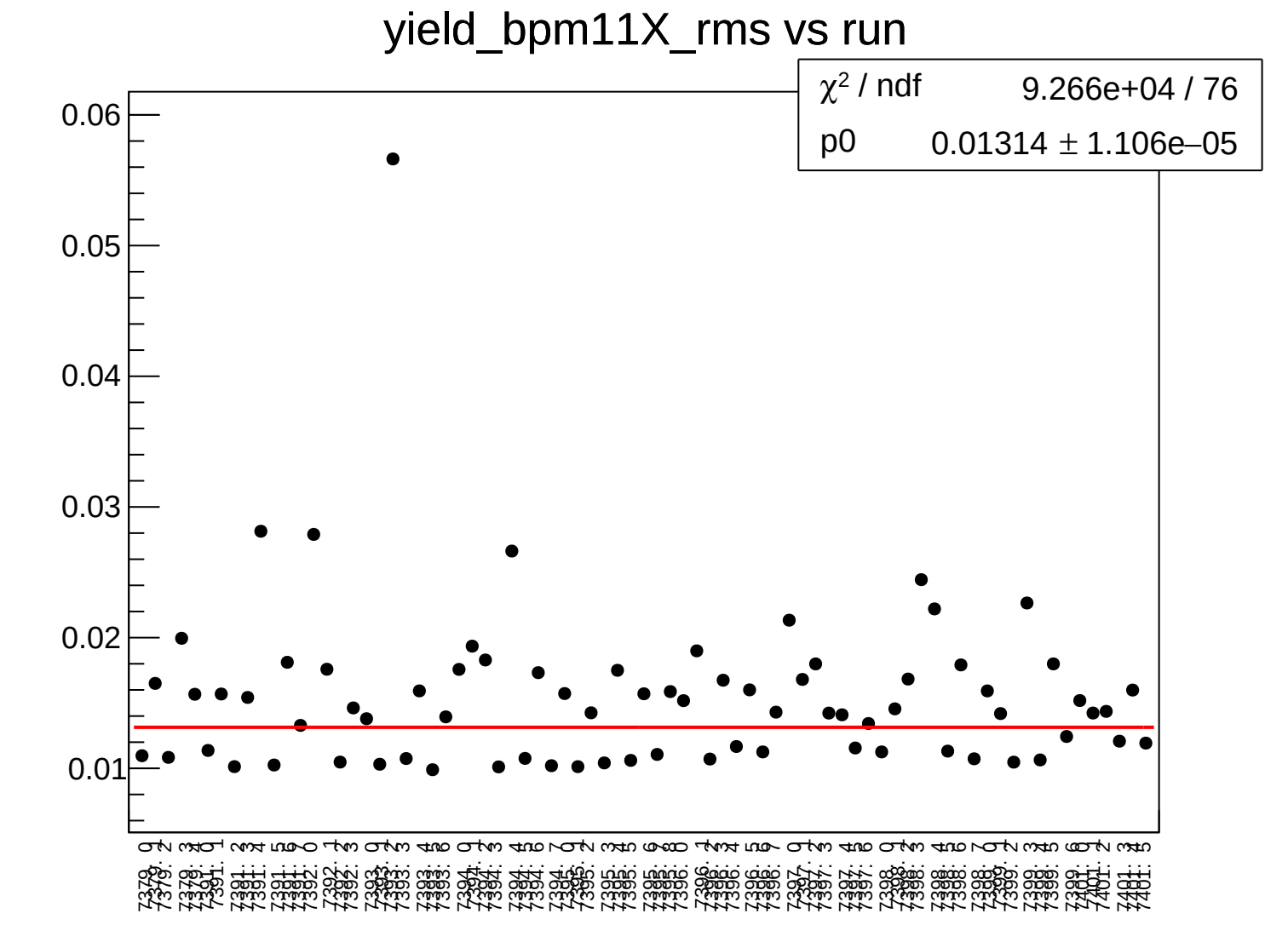

yield_bpm1Y_mean vs run
χ² / ndf 4.447e+06 / 76
p0 1.838 ± 1.436e−05
1.9
1.88
1.86
1.84
1.82
1.8
1.78
pull
Entries 77
Mean 6425
Std Dev 6384
600
400
200
0
−200
−400

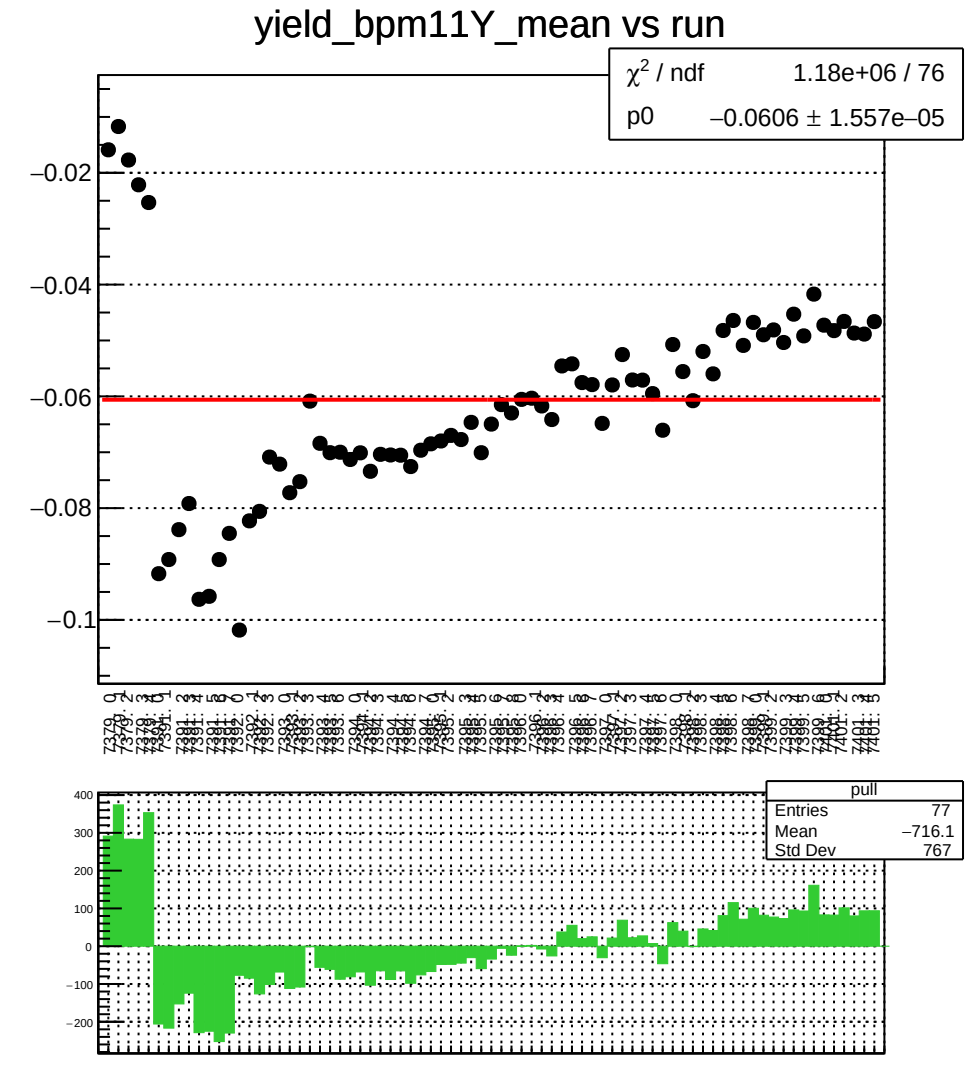

pull1D
Entries 77
Mean −0.9504
Std Dev 3.57
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

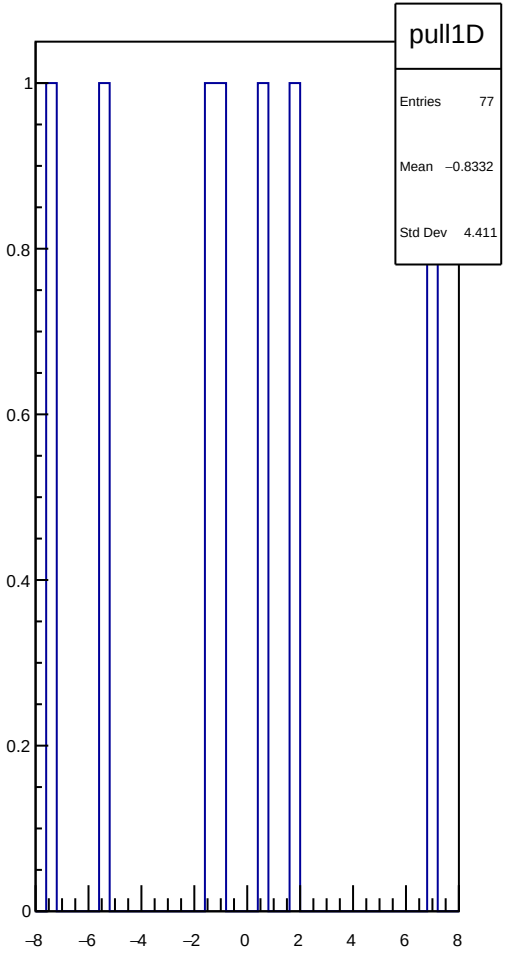

yield_bpm1Y_rms vs run
χ² / ndf 2.767e+04 / 76
p0 0.01234 ± 1.015e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

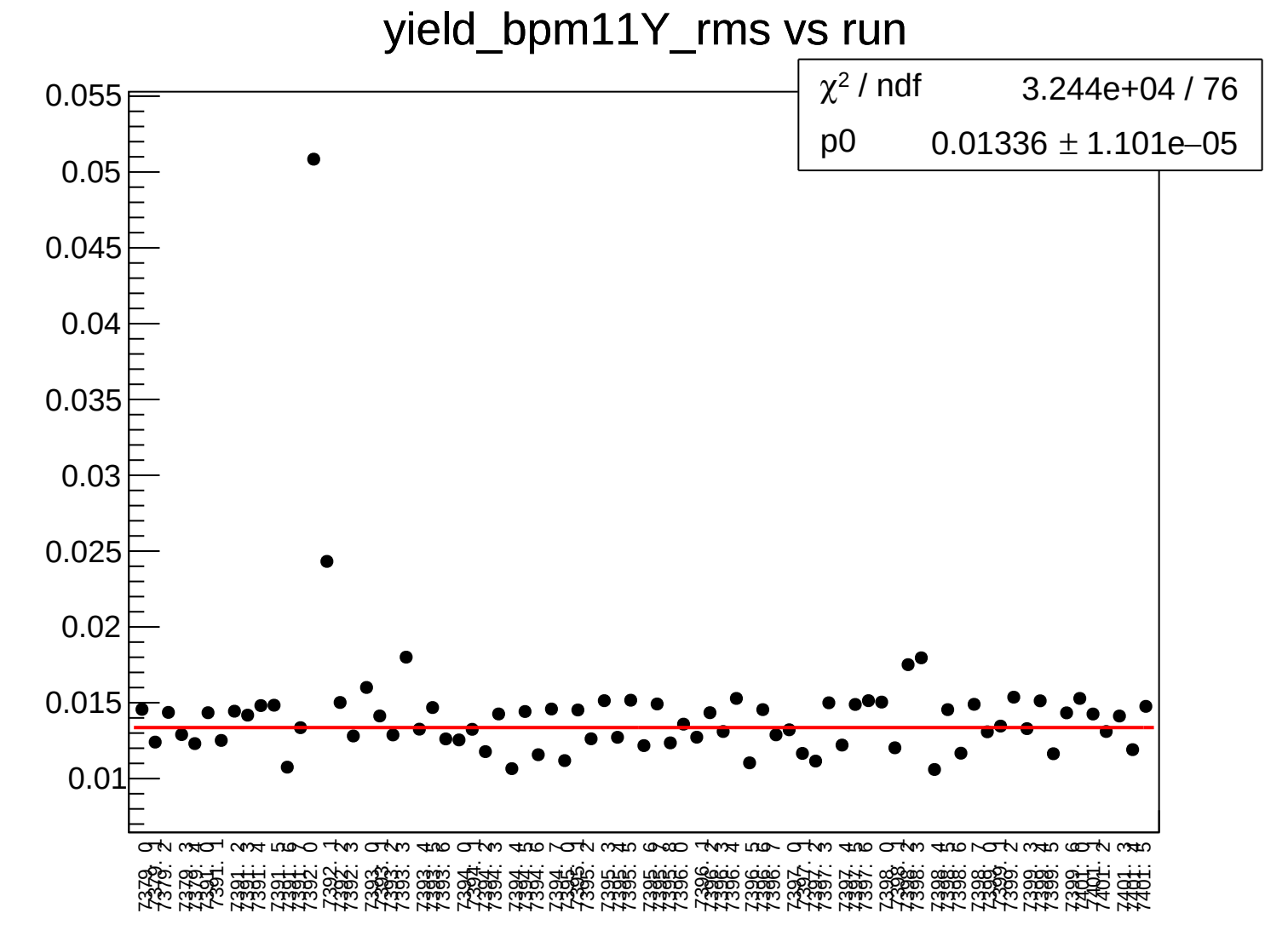

yield_bpm11X_mean vs run
χ² / ndf 6.257e+04 / 76
p0 0.7171 ± 1.563e−05
0.76
0.75
0.74
0.73
0.72
0.71
0.7
pull
Entries 77
Mean 84.51
Std Dev 42.37
80
60
40
20
0
−20
−40

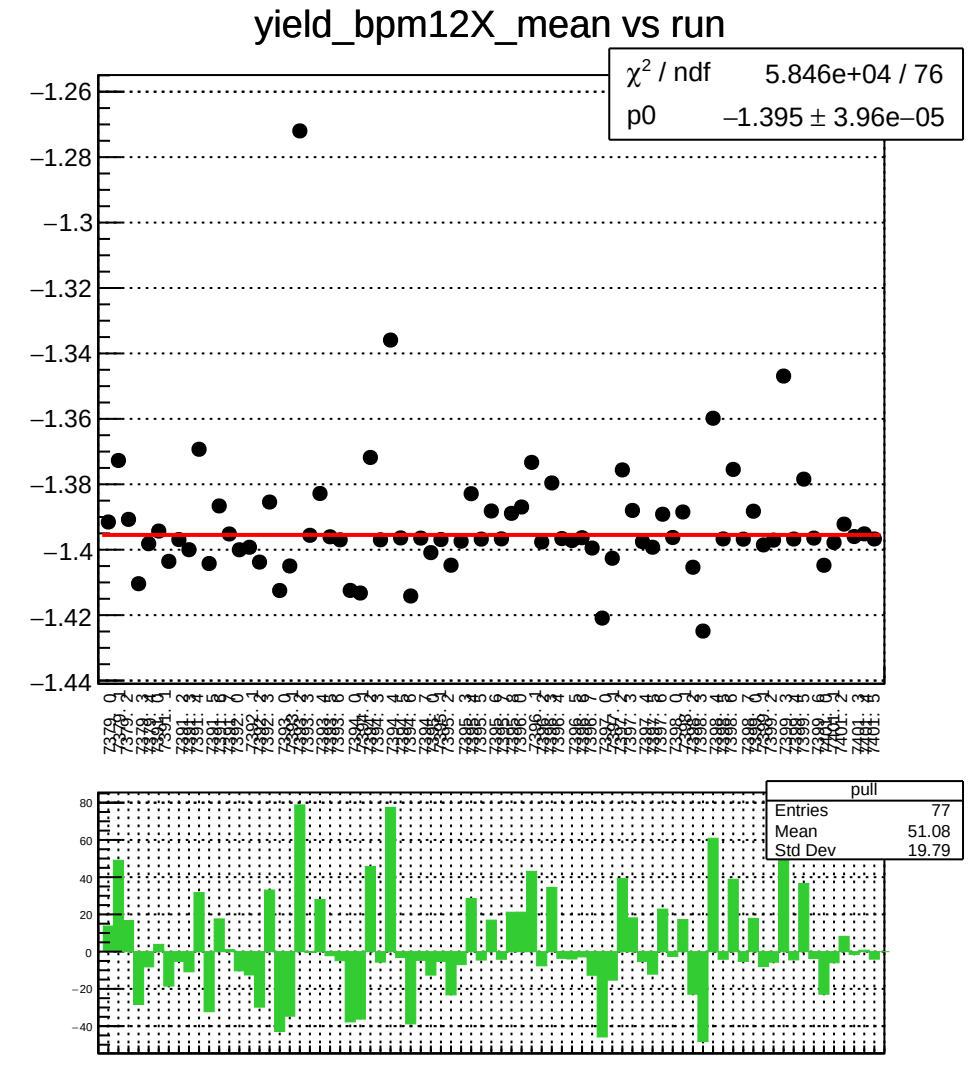

pull1D
Entries 77
Mean −0.929
Std Dev 4.202
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

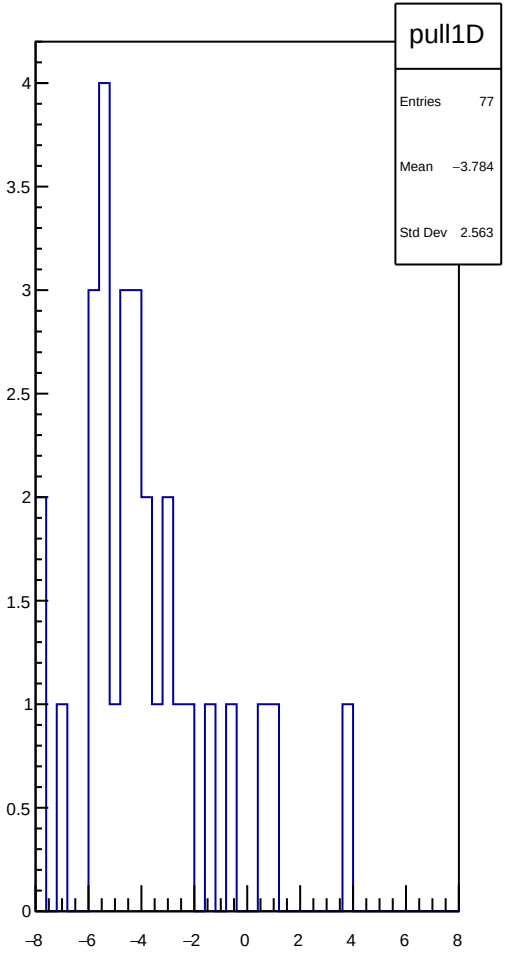

yield_bpm11X_rms vs run
χ² / ndf 9.266e+04 / 76
p0 0.01314 ± 1.106e–05
0.06
0.05
0.04
0.03
0.02
0.01

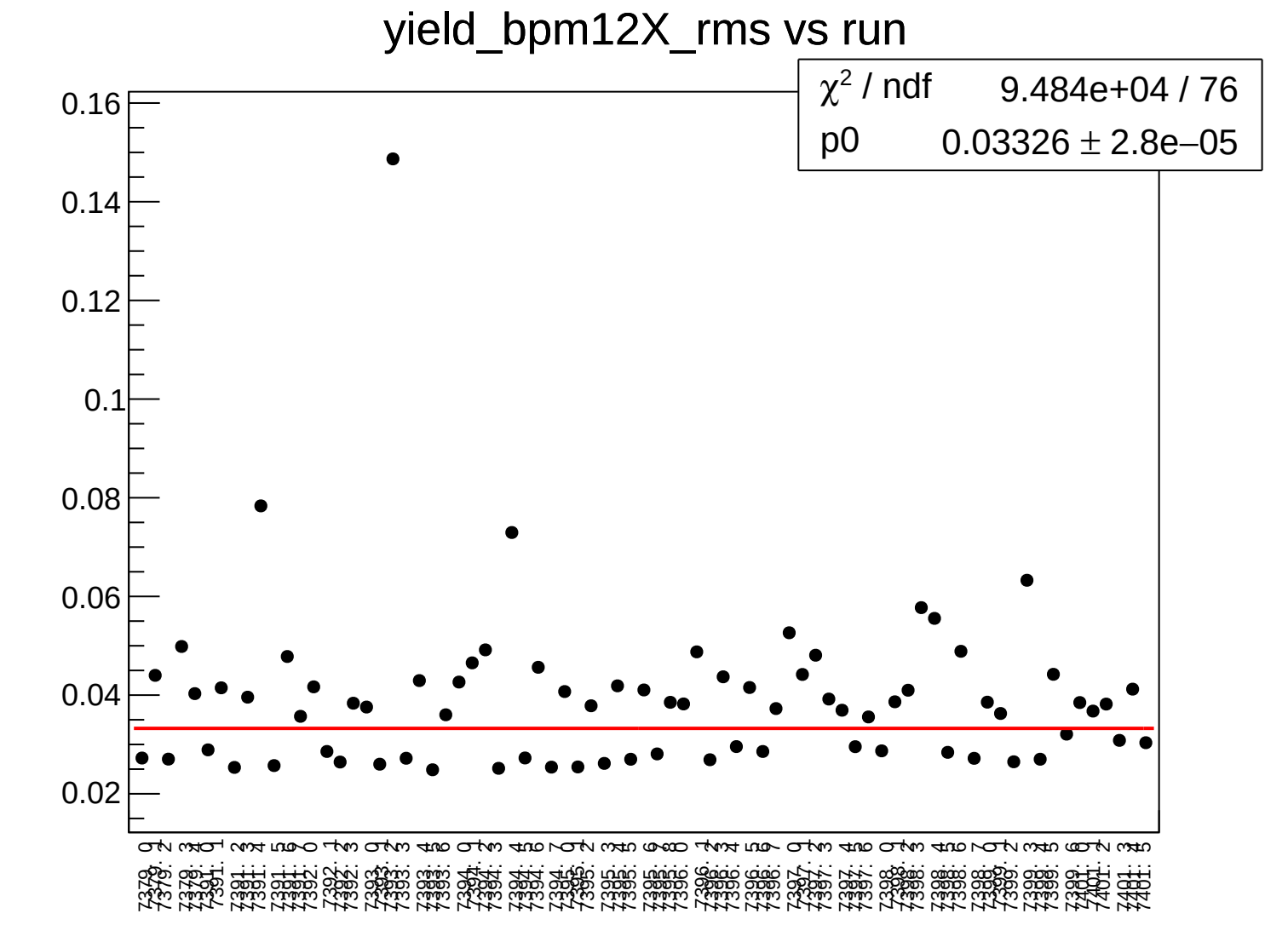

yield_bpm11Y_mean vs run
χ² / ndf 1.18e+06 / 76
p0 −0.0606 ± 1.557e−05
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 77
Mean −716.1
Std Dev 767
400
300
200
100
0
−100
−200

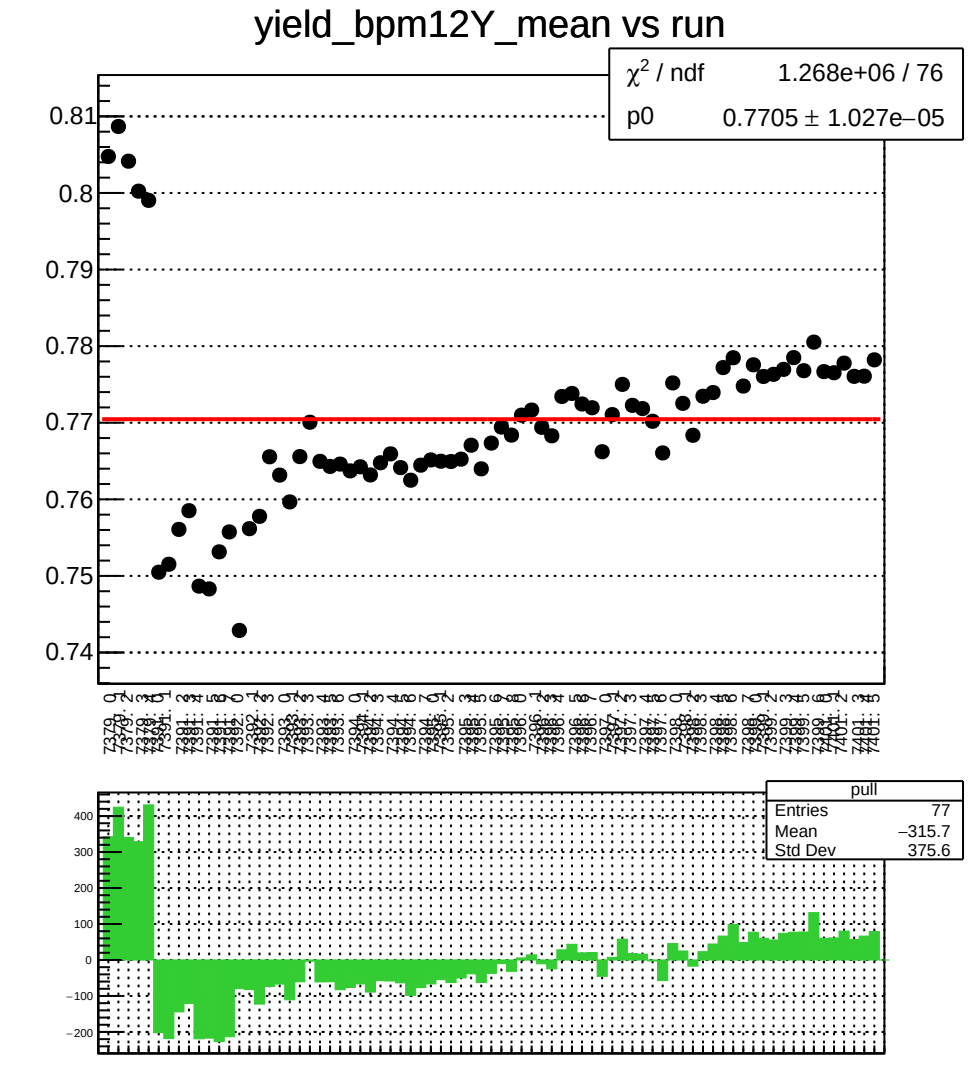

pull1D
Entries 77
Mean −0.8332
Std Dev 4.411
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

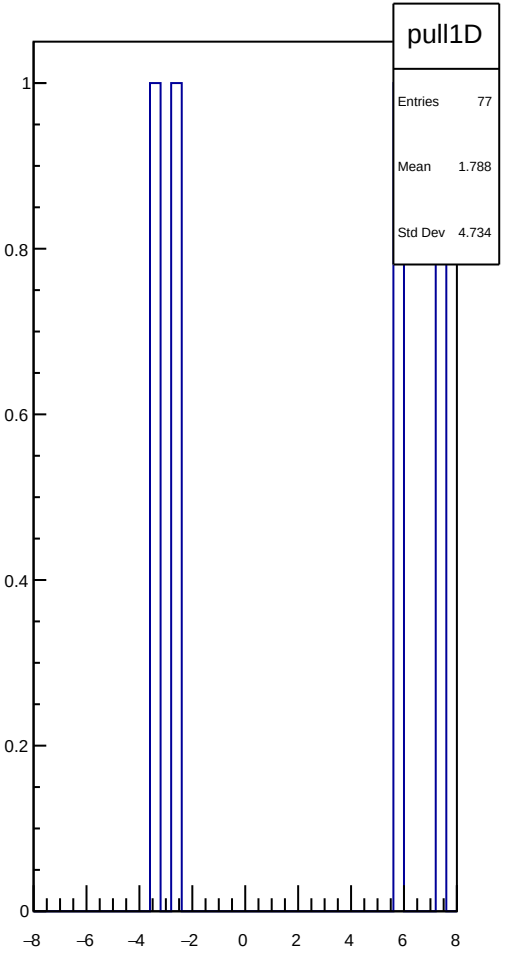

yield_bpm11Y_rms vs run
χ² / ndf 3.244e+04 / 76
p0 0.01336 ± 1.101e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

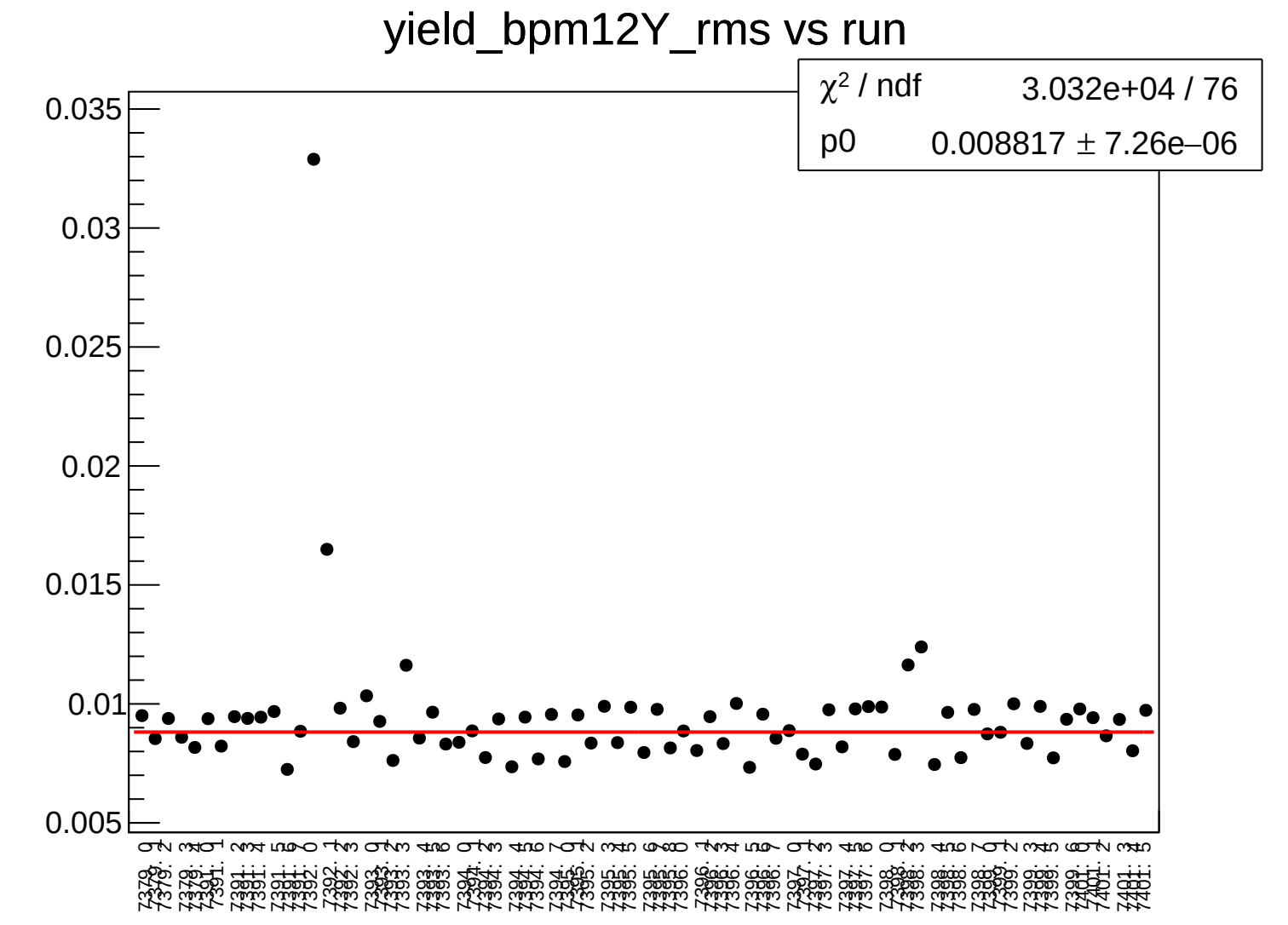

yield_bpm12X_mean vs run
χ² / ndf 5.846e+04 / 76
p0 −1.395 ± 3.96e−05
pull
Entries 77
Mean 51.08
Std Dev 19.79

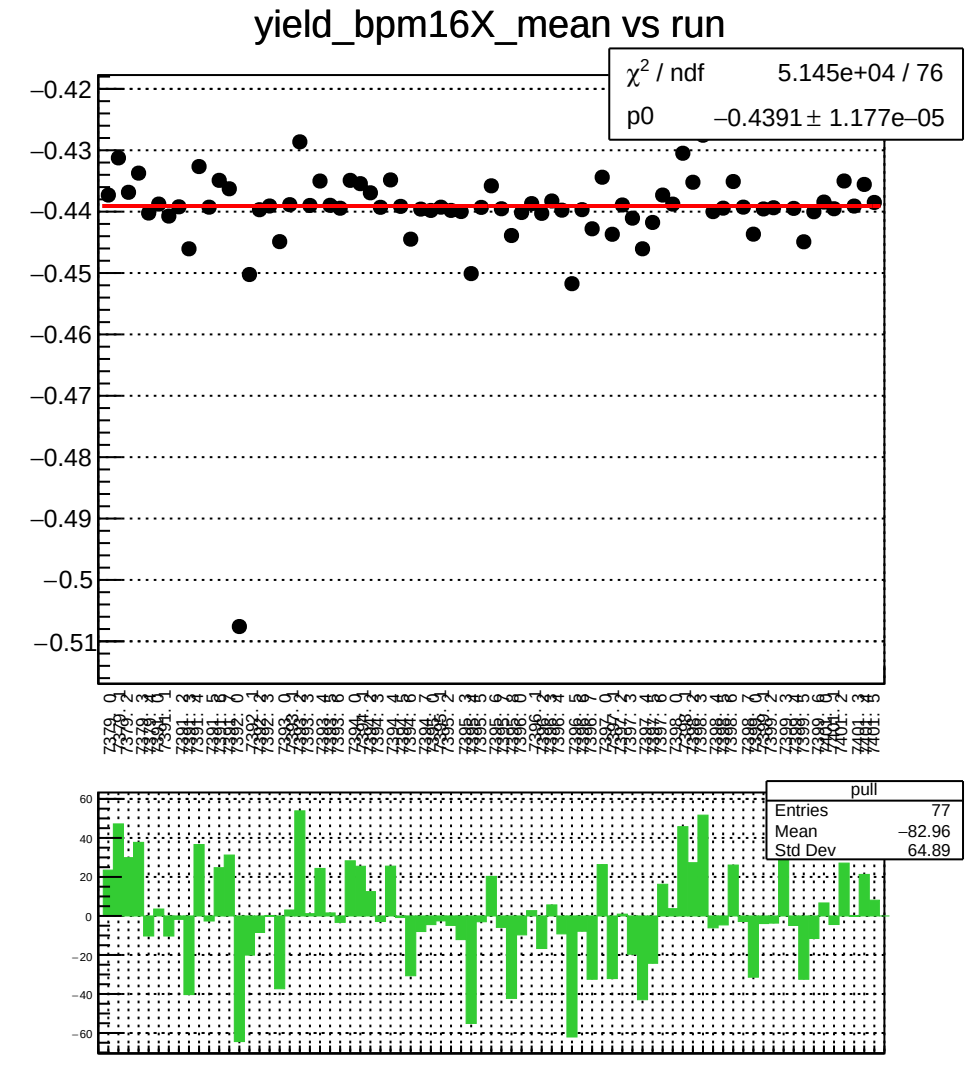

pull1D
Entries 77
Mean −3.784
Std Dev 2.563

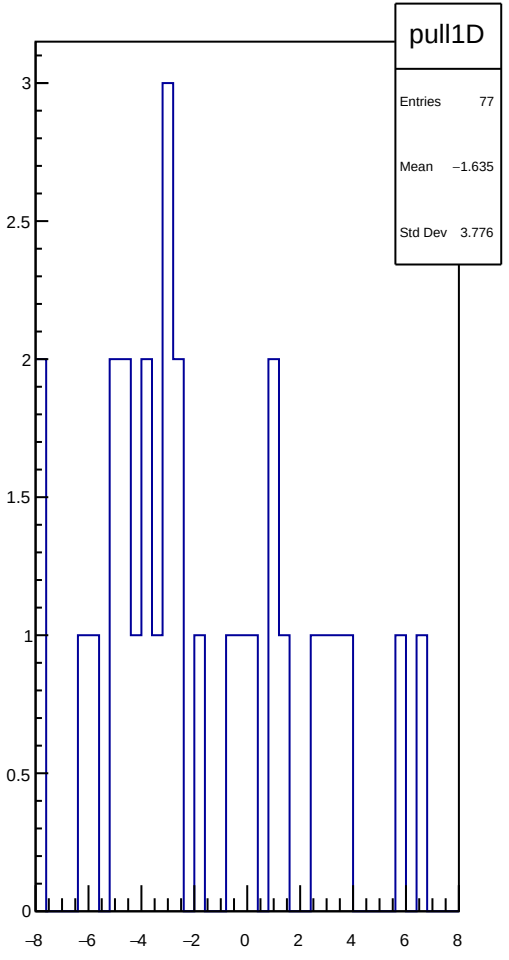

yield_bpm12X_rms vs run
χ^2 / ndf 9.484e+04 / 76
p0 0.03326 ± 2.8e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

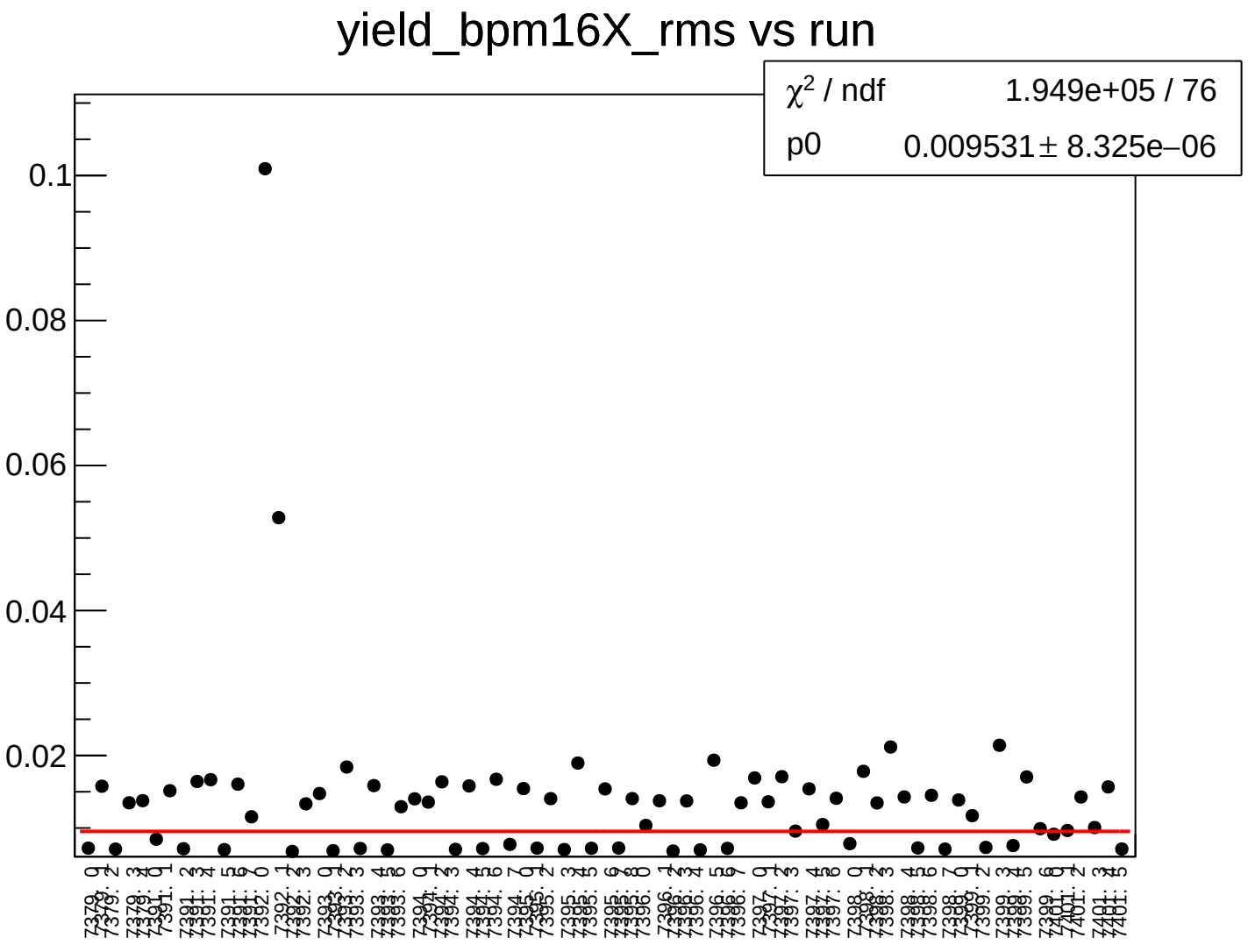

yield_bpm12Y_mean vs run
χ² / ndf 1.268e+06 / 76
p0 0.7705 ± 1.027e−05
0.81
0.8
0.79
0.78
0.77
0.76
0.75
0.74
pull
Entries 77
Mean −315.7
Std Dev 375.6
400
300
200
100
0
−100
−200

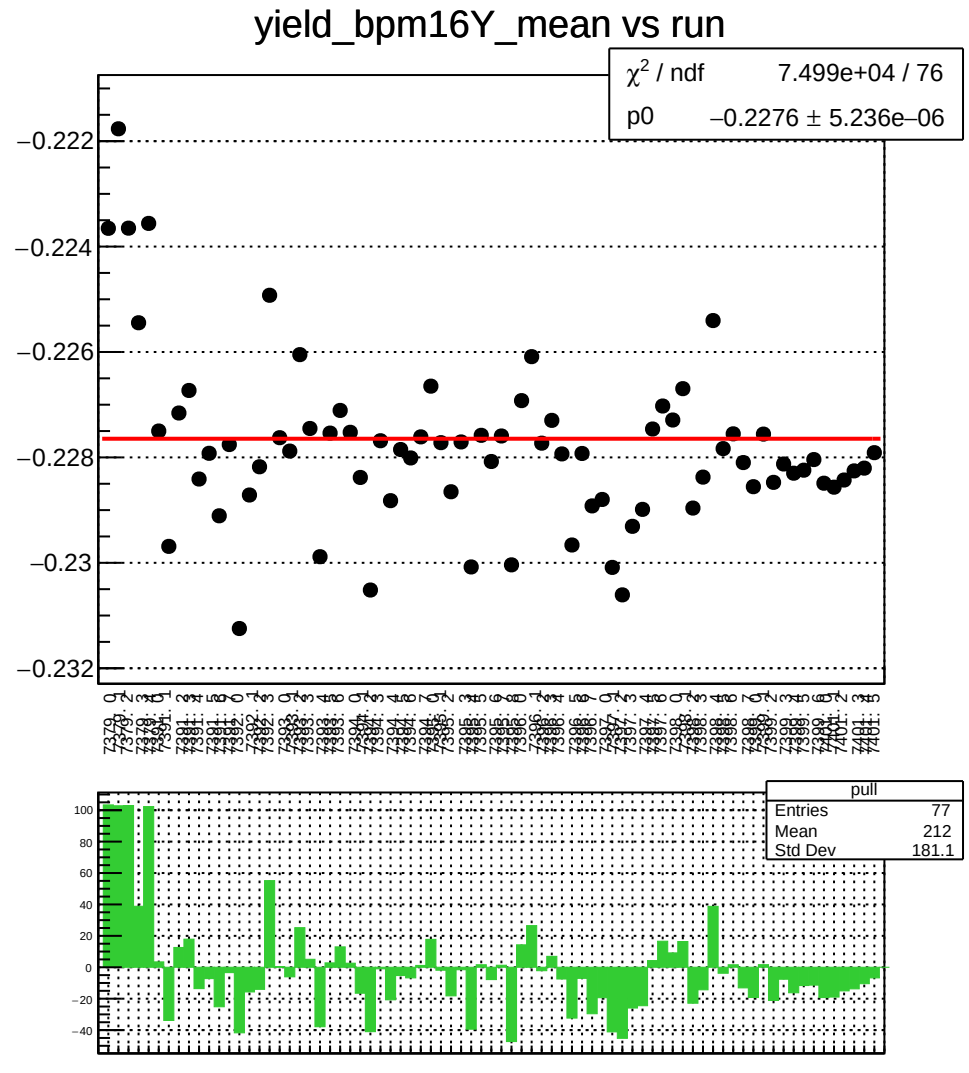

pull1D
Entries 77
Mean 1.788
Std Dev 4.734
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

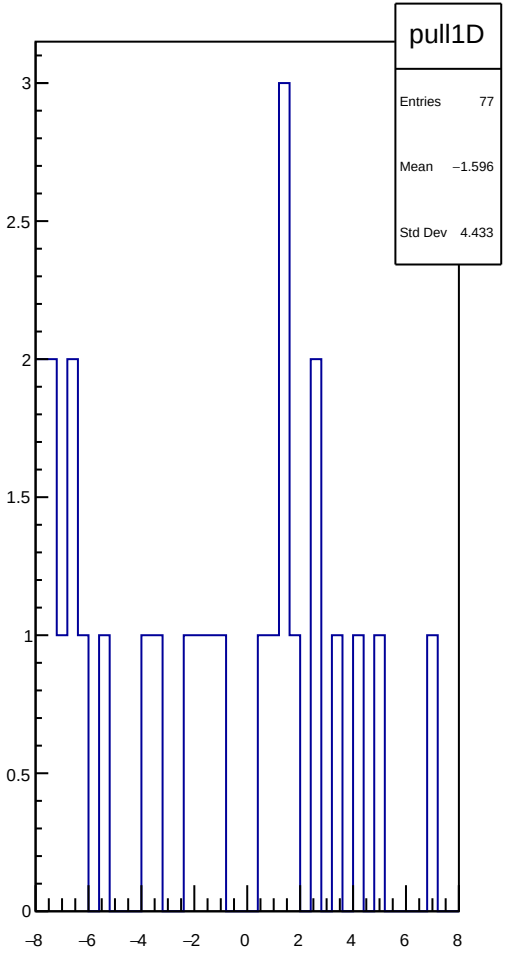

yield_bpm12Y_rms vs run
χ² / ndf 3.032e+04 / 76
p0 0.008817 ± 7.26e–06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

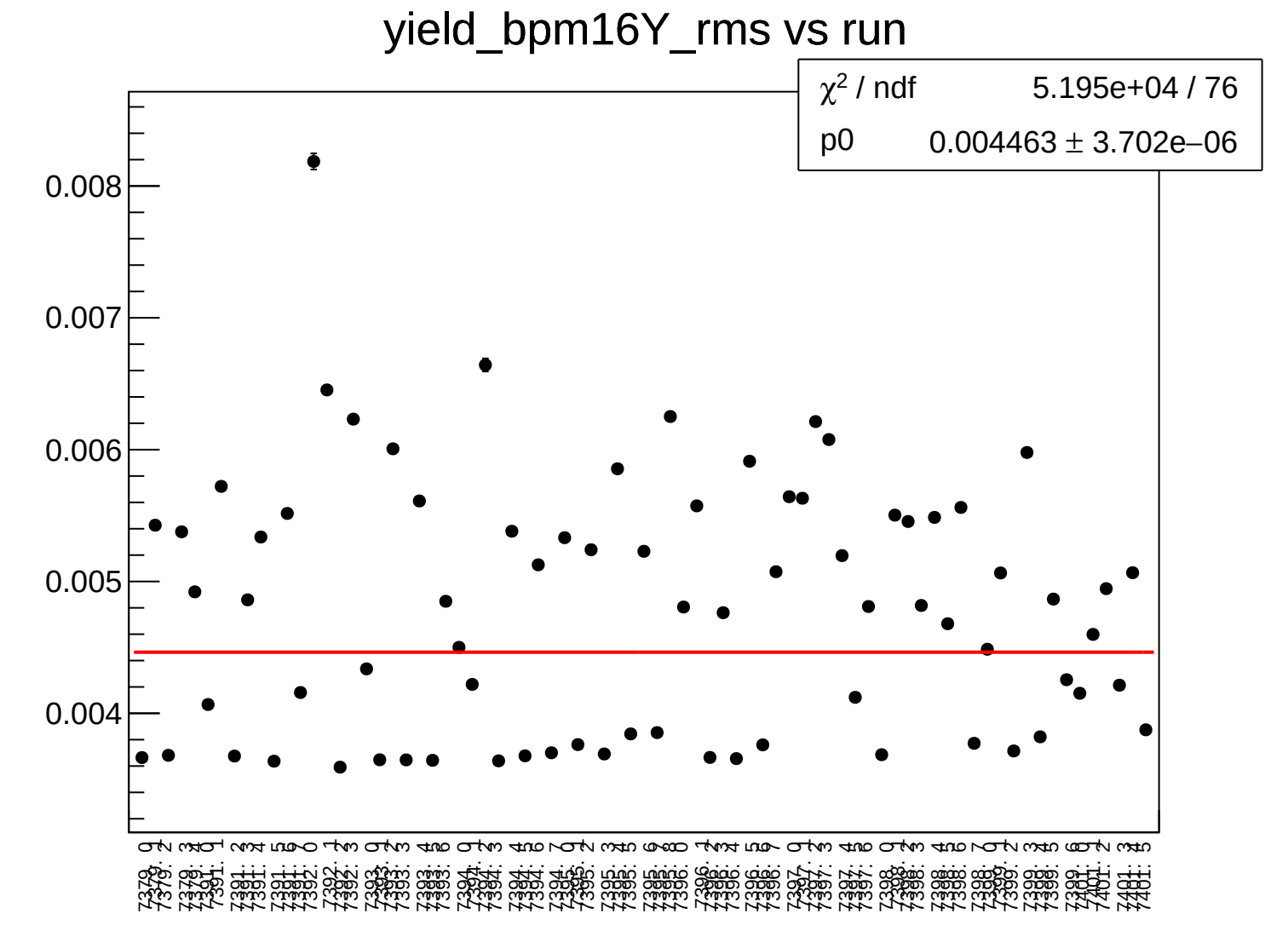

yield_bpm16X_mean vs run
χ² / ndf 5.145e+04 / 76
p0 −0.4391 ± 1.177e−05
pull
Entries 77
Mean −82.96
Std Dev 64.89

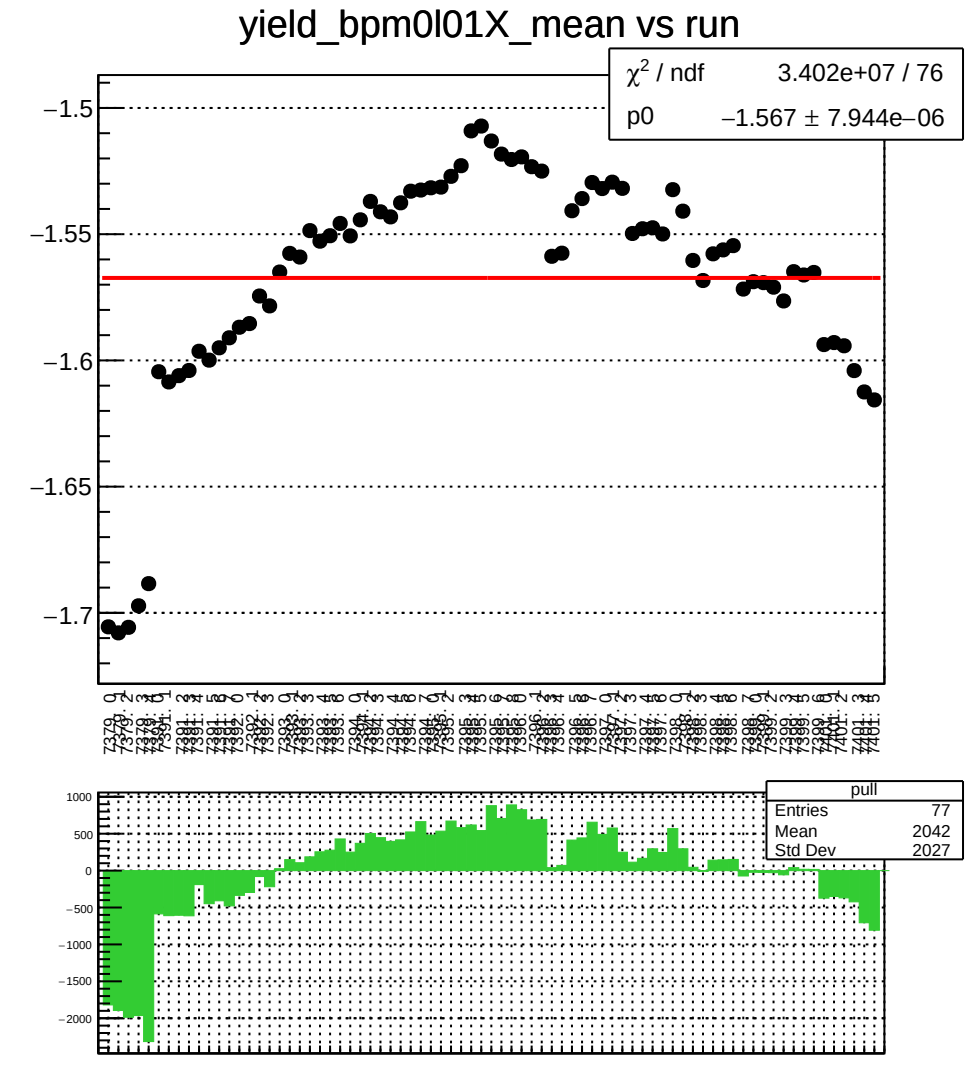

pull1D
Entries 77
Mean −1.635
Std Dev 3.776

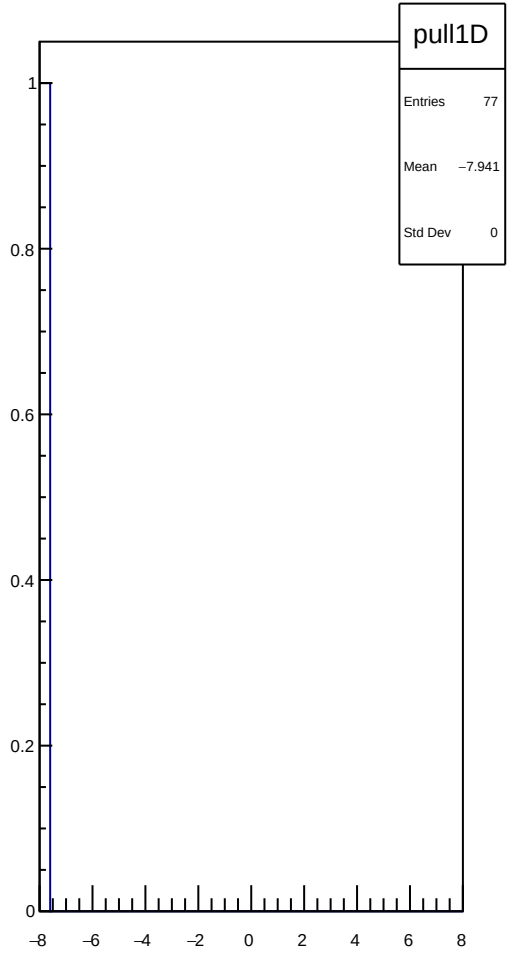

yield_bpm16X_rms vs run
χ² / ndf 1.949e+05 / 76
p0 0.009531 ± 8.325e−06
0.1
0.08
0.06
0.04
0.02

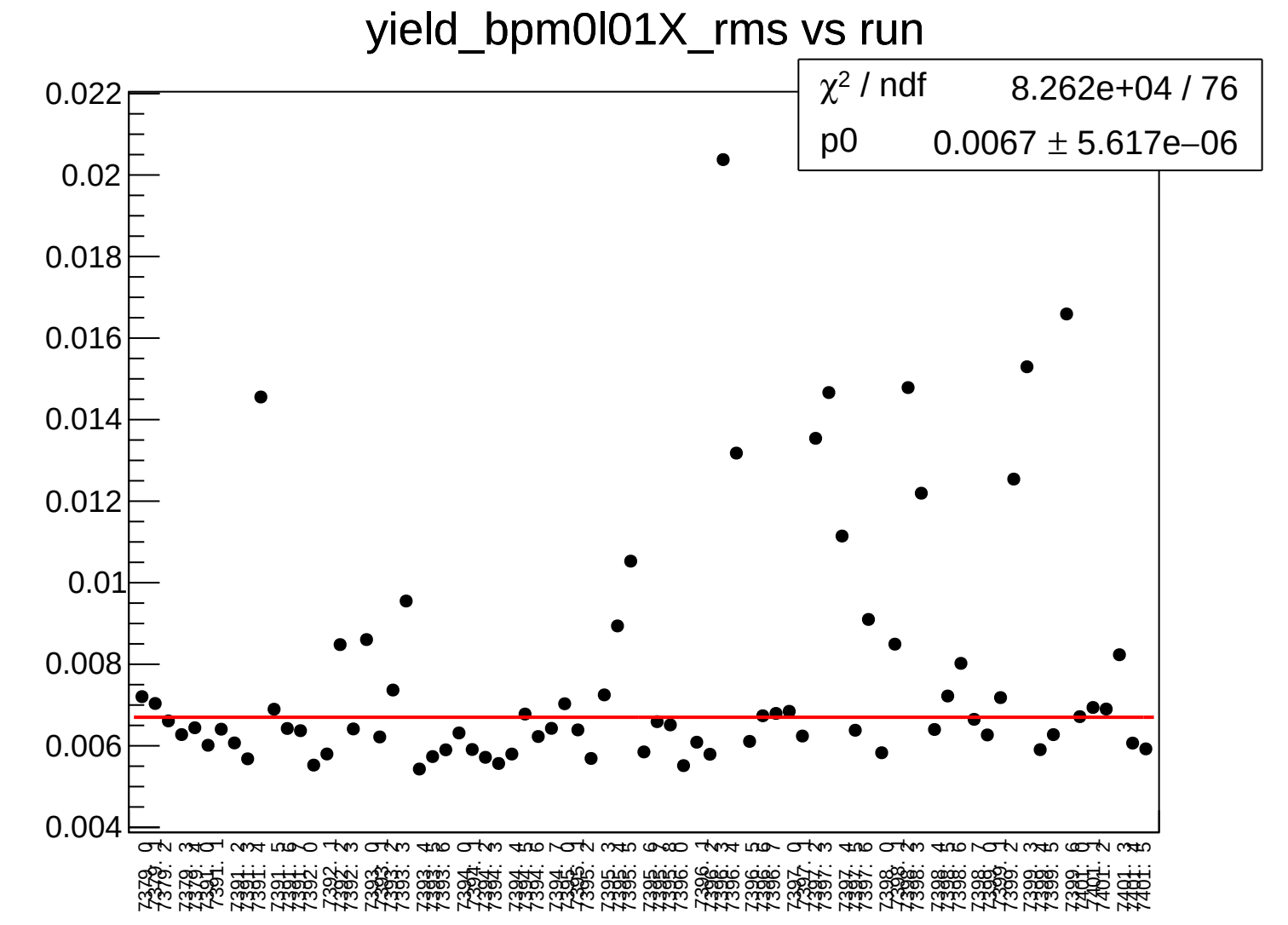

yield_bpm16Y_mean vs run
χ² / ndf 7.499e+04 / 76
p0 −0.2276 ± 5.236e−06
−0.222
−0.224
−0.226
−0.228
−0.23
−0.232
pull
Entries 77
Mean 212
Std Dev 181.1
100
80
60
40
20
0
−20
−40

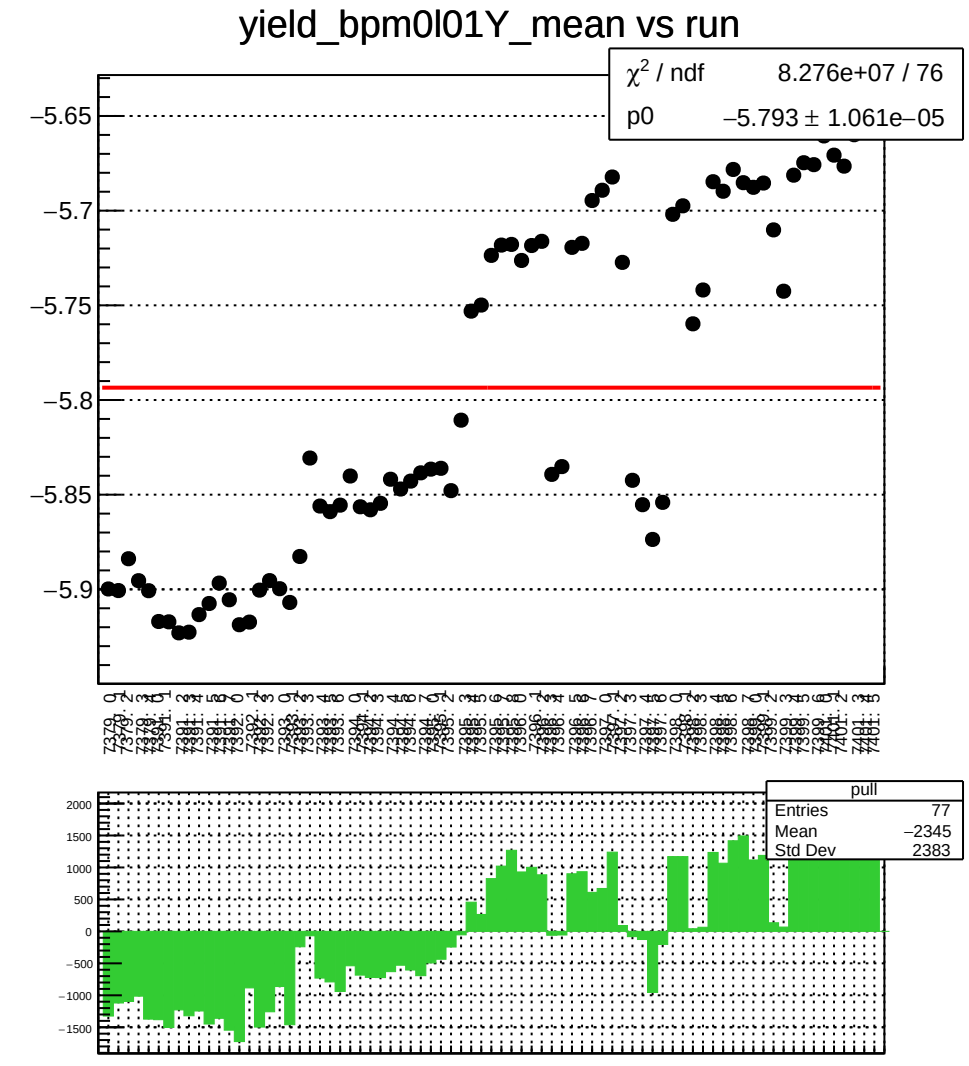

pull1D
Entries 77
Mean −1.596
Std Dev 4.433
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

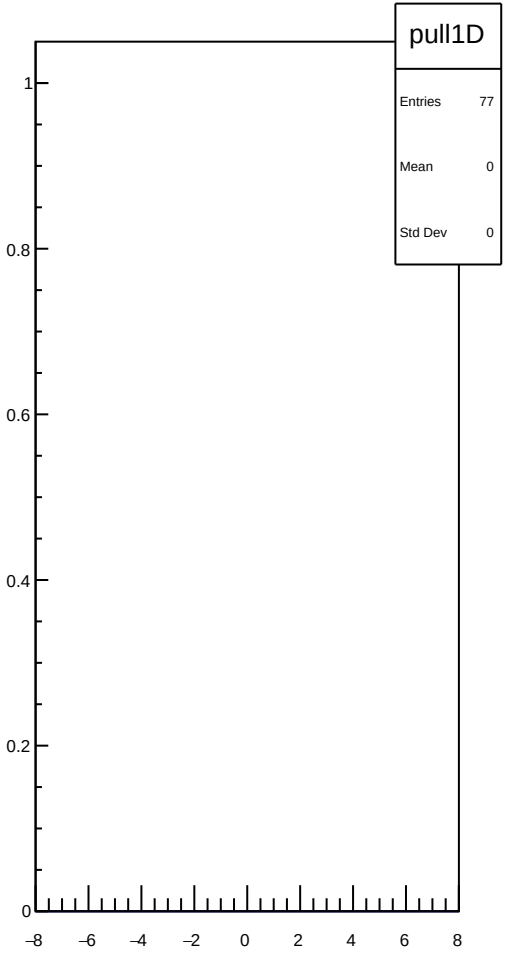

yield_bpm16Y_rms vs run
χ^2 / ndf 5.195e+04 / 76
p0 0.004463 ± 3.702e−06
0.008
0.007
0.006
0.005
0.004

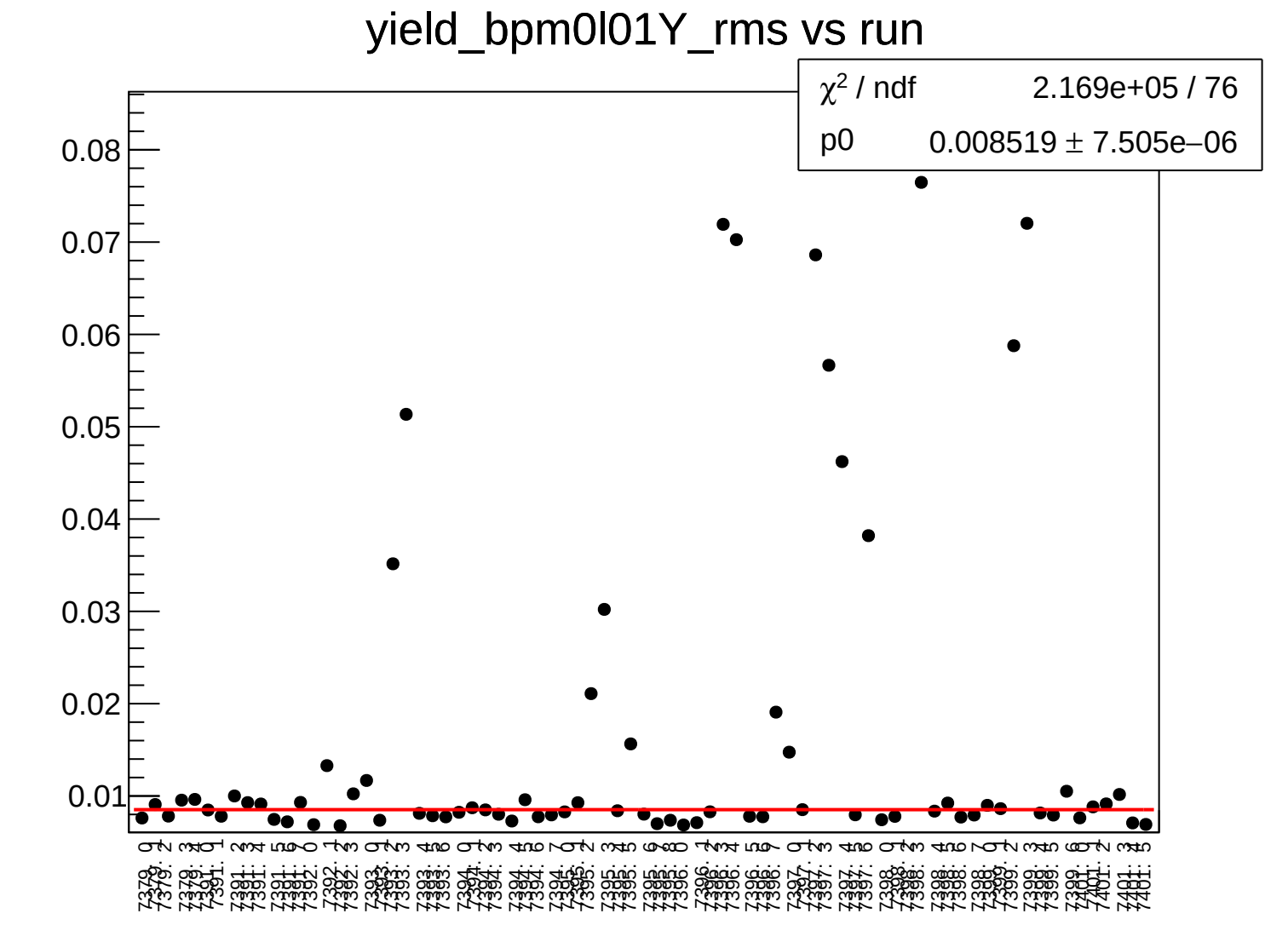

yield_bpm0l01X_mean vs run
χ² / ndf 3.402e+07 / 76
p0 −1.567 ± 7.944e−06
−1.5
−1.55
−1.6
−1.65
−1.7
pull
Entries 77
Mean 2042
Std Dev 2027
1000
500
0
−500
−1000
−1500
−2000

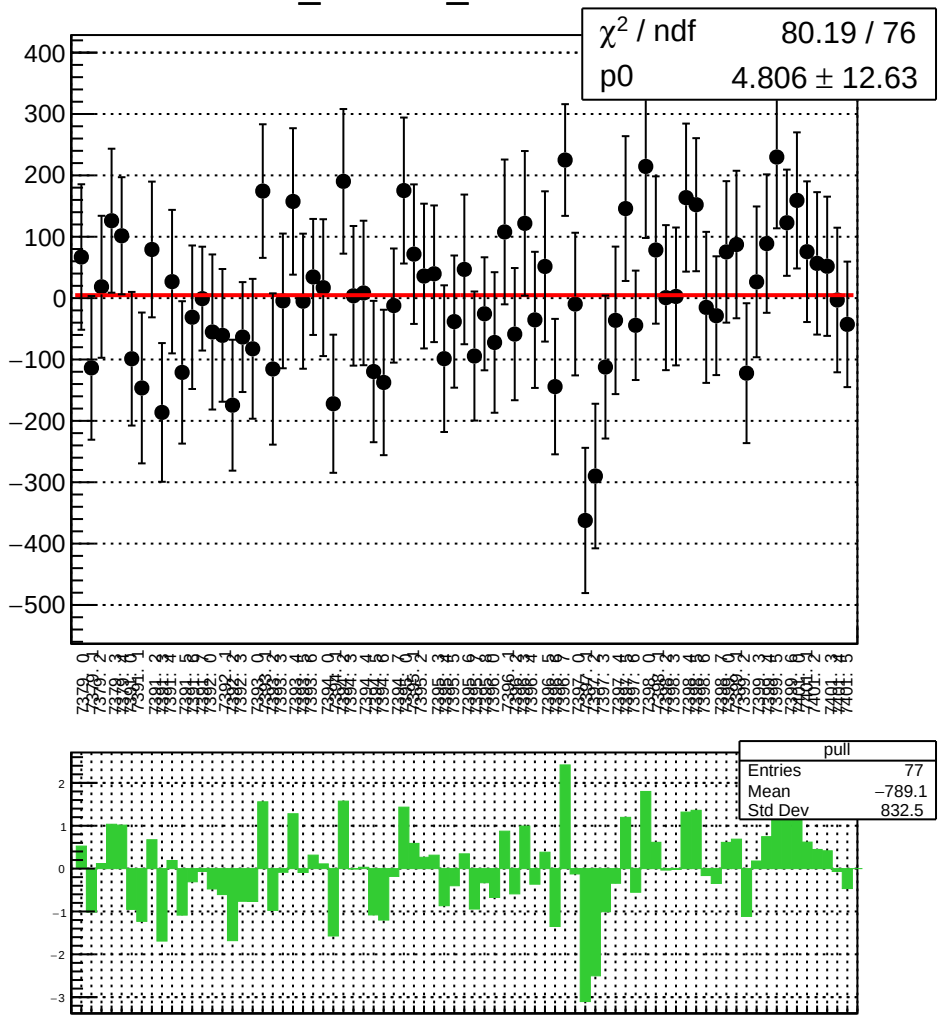

pull1D
Entries 77
Mean −7.941
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

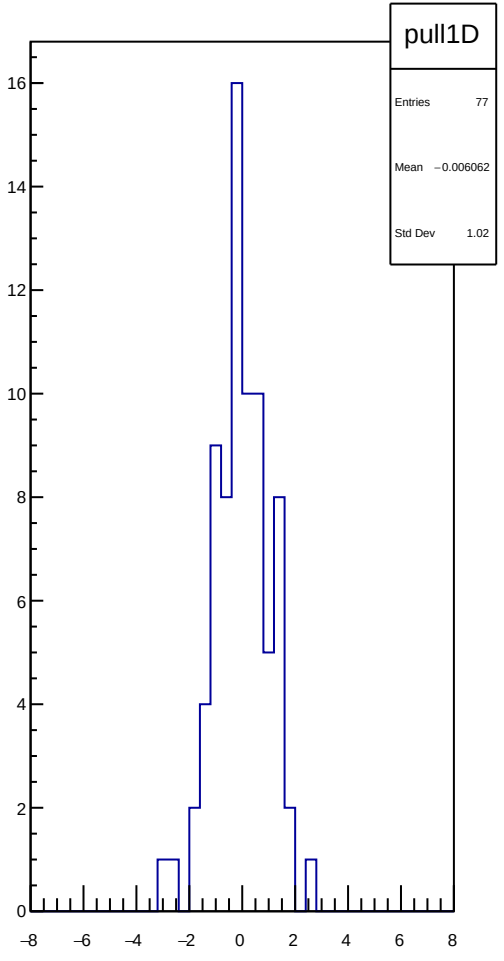

yield_bpm0l01X_rms vs run
χ² / ndf 8.262e+04 / 76
p0 0.0067 ± 5.617e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

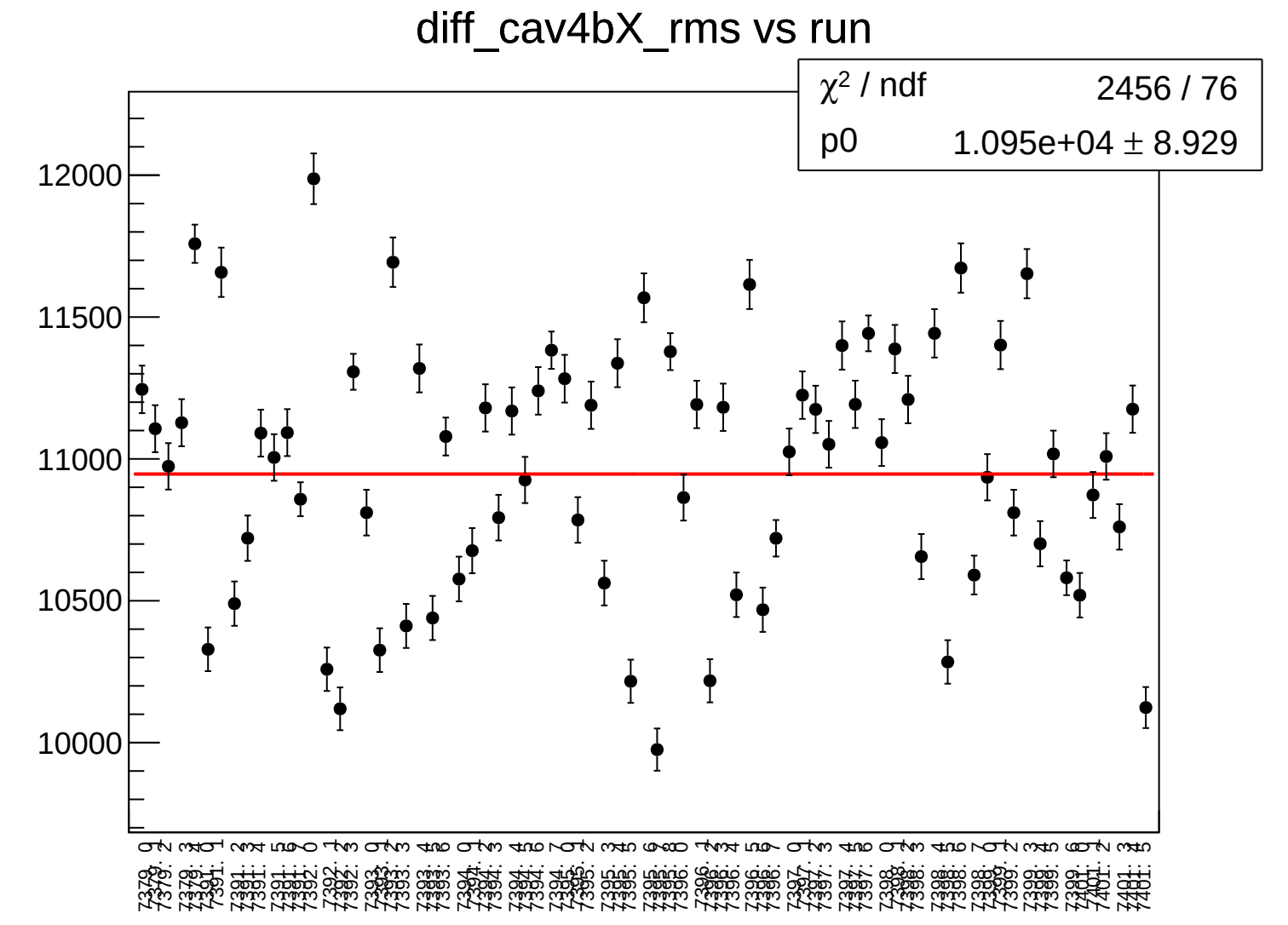

yield_bpm0l01Y_mean vs run
χ² / ndf 8.276e+07 / 76
p0 −5.793 ± 1.061e−05
−5.65
−5.7
−5.75
−5.8
−5.85
−5.9
pull
Entries 77
Mean −2345
Std Dev 2383
2000
1500
1000
500
0
−500
−1000
−1500

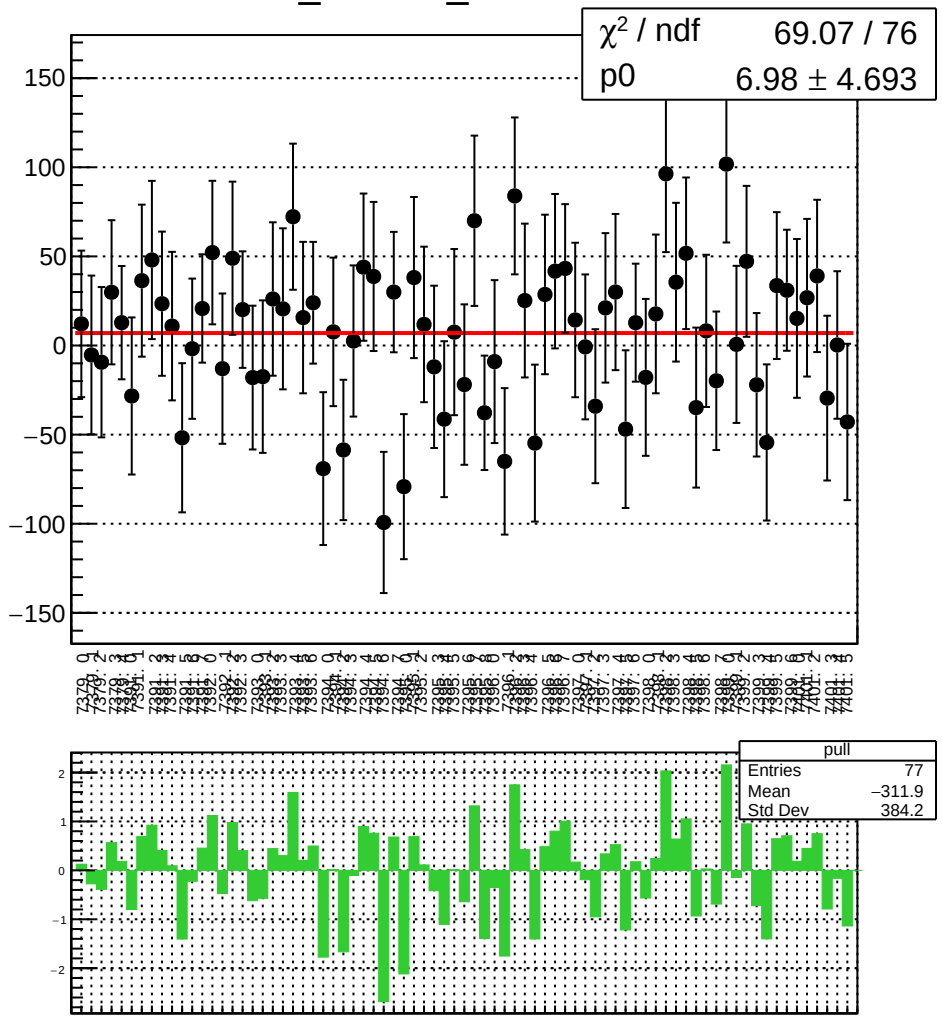

pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

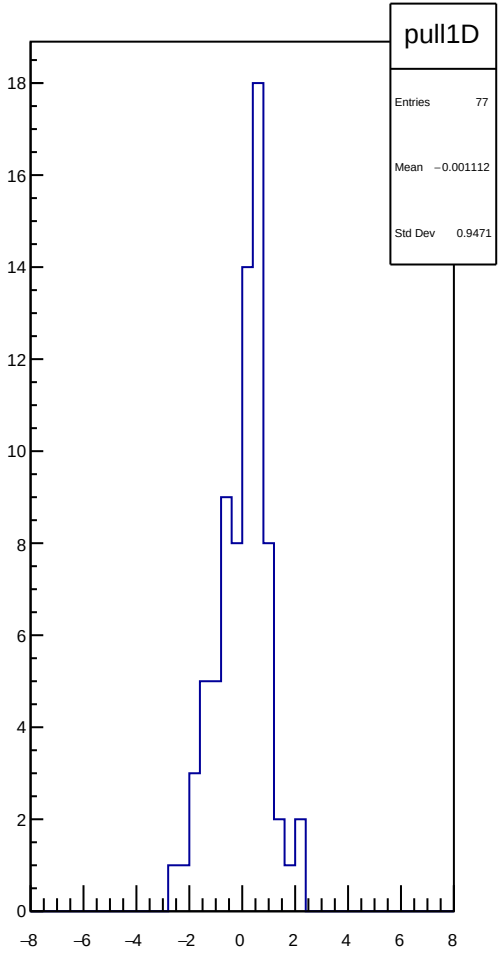

yield_bpm0l01Y_rms vs run
χ² / ndf 2.169e+05 / 76
p0 0.008519 ± 7.505e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

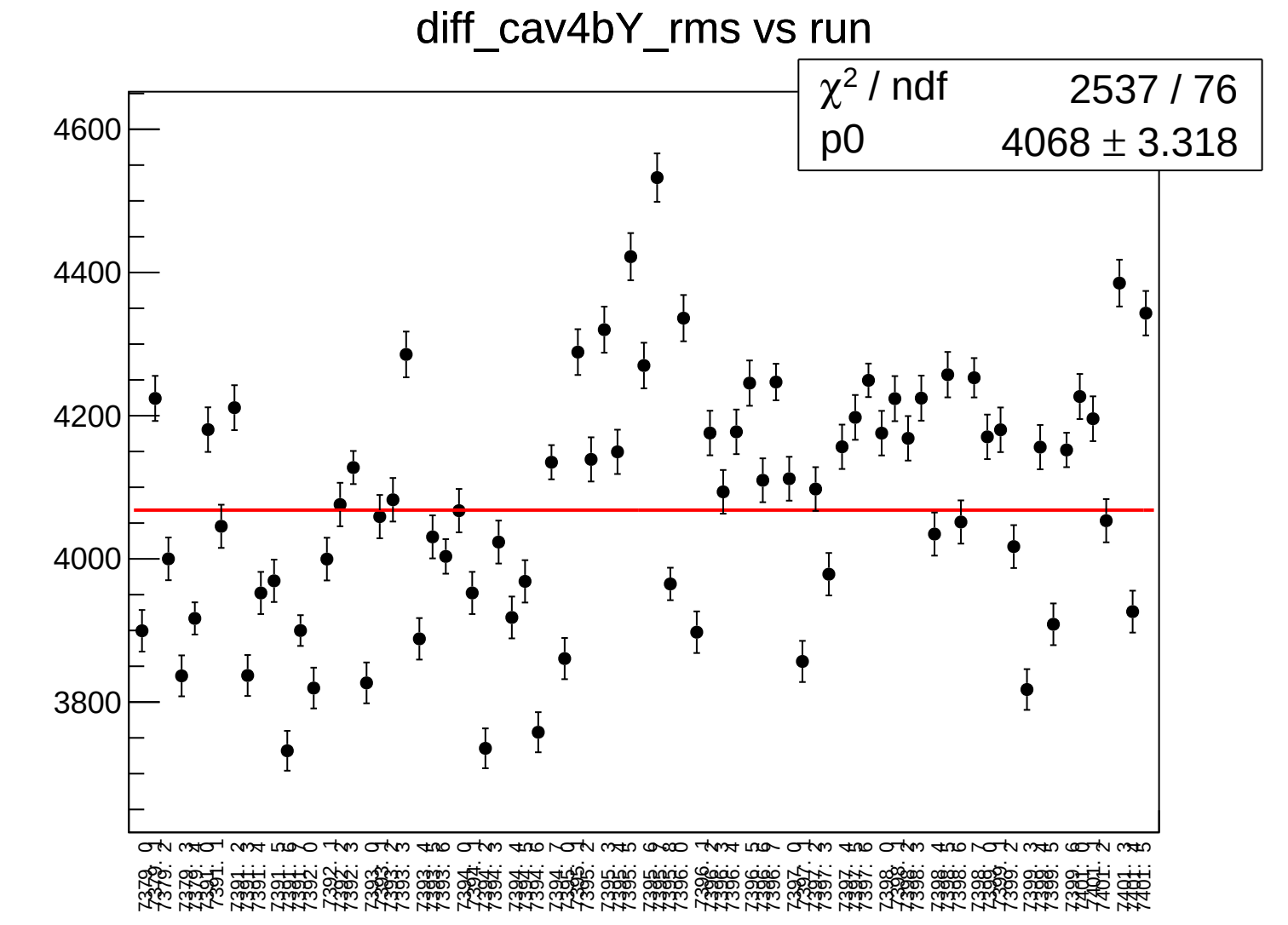

diff_cav4bX_mean vs run
χ² / ndf 80.19 / 76
p0 4.806 ± 12.63
pull
Entries 77
Mean −789.1
Std Dev 832.5

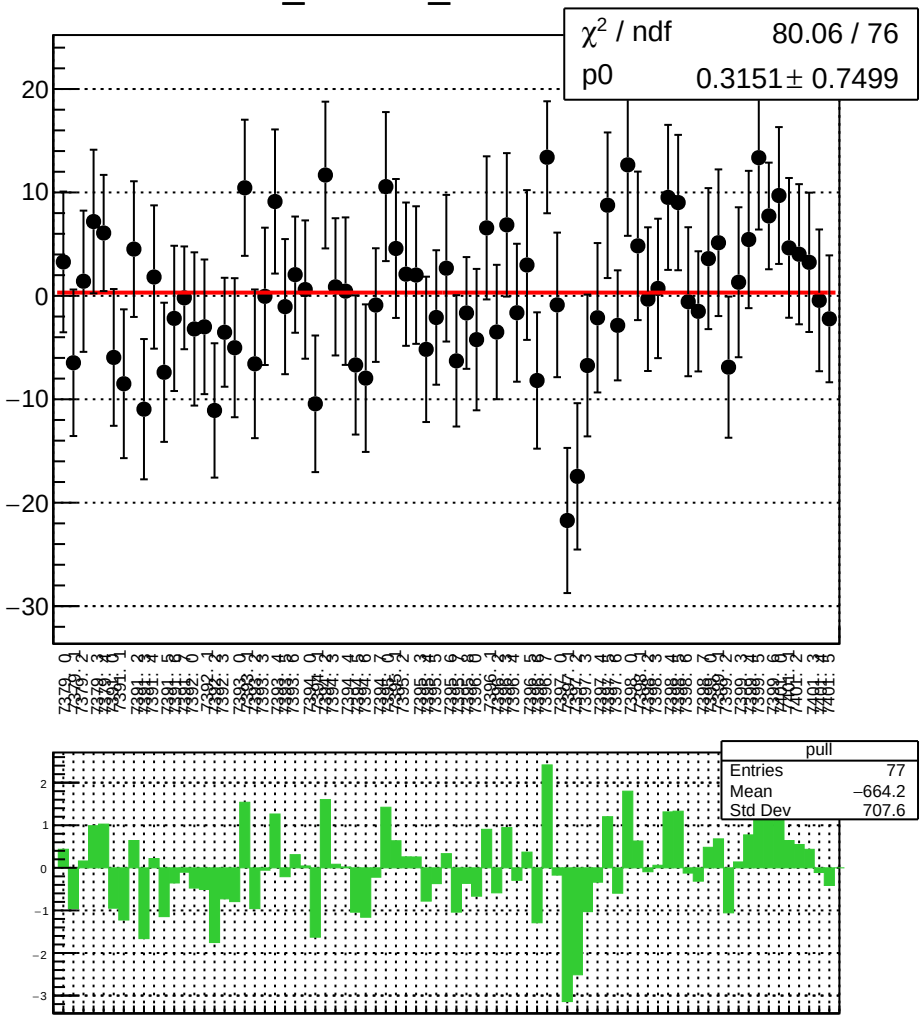

pull1D
Entries 77
Mean −0.006062
Std Dev 1.02

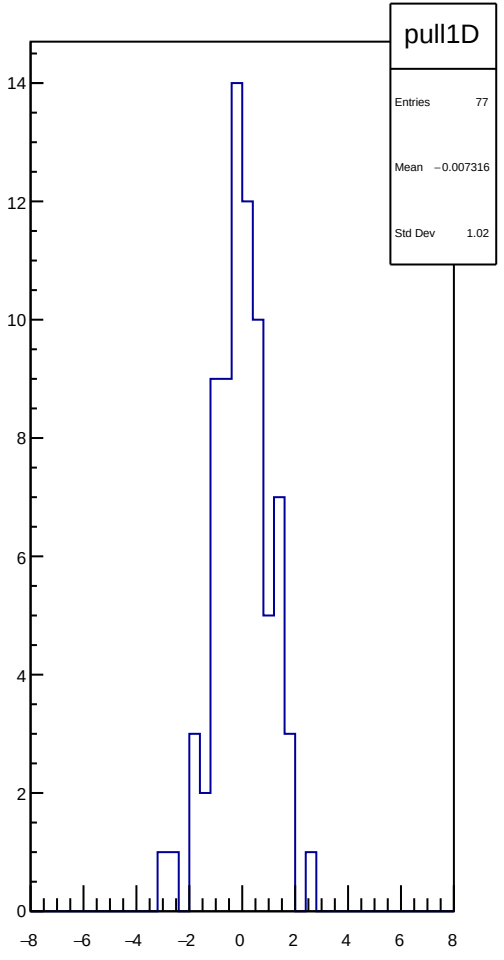

diff_cav4bX_rms vs run
χ² / ndf 2456 / 76
p0 1.095e+04 ± 8.929
12000
11500
11000
10500
10000

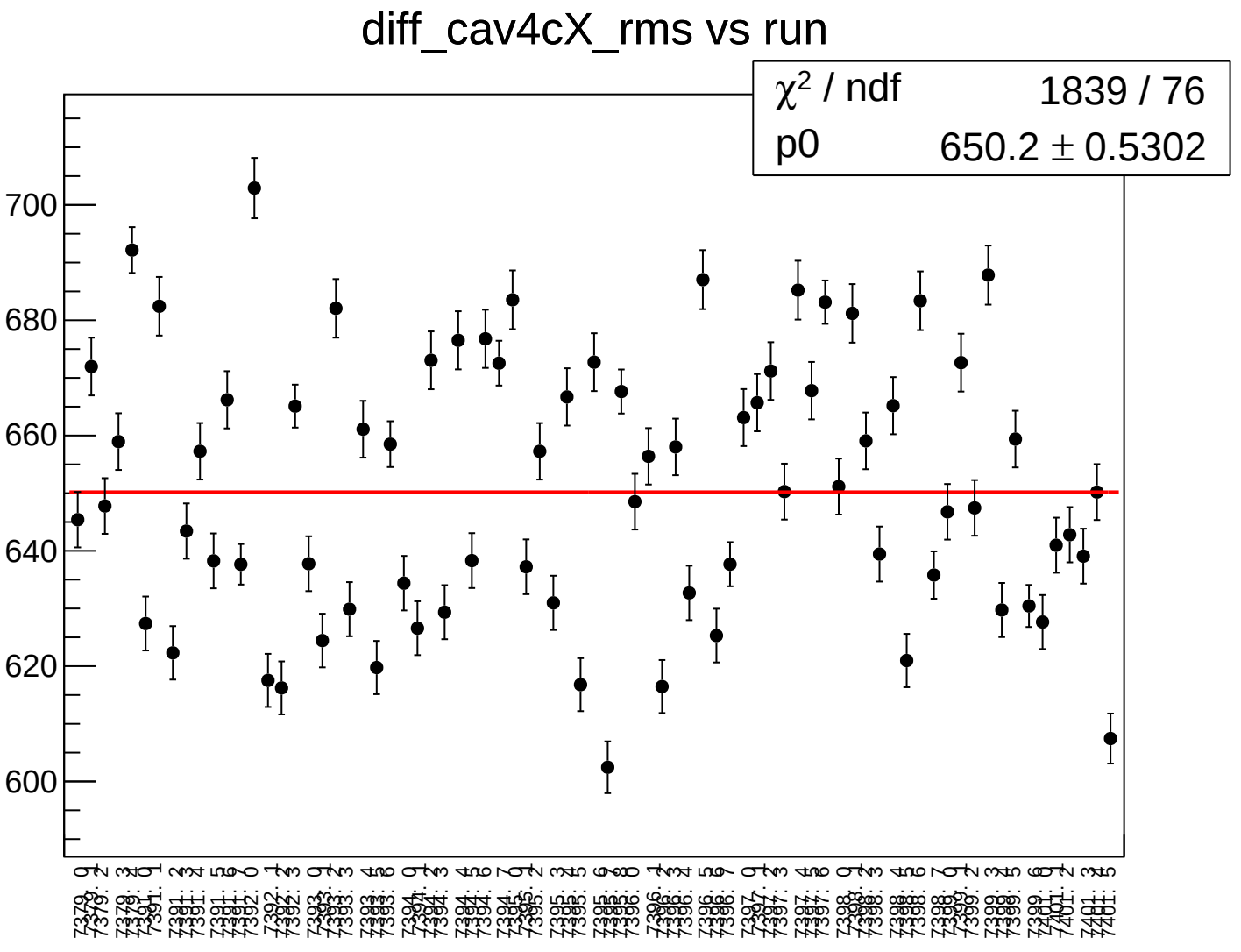

diff_cav4bY_mean vs run
χ^2 / ndf 69.07 / 76
p0 6.98 ± 4.693
pull
Entries 77
Mean −311.9
Std Dev 384.2

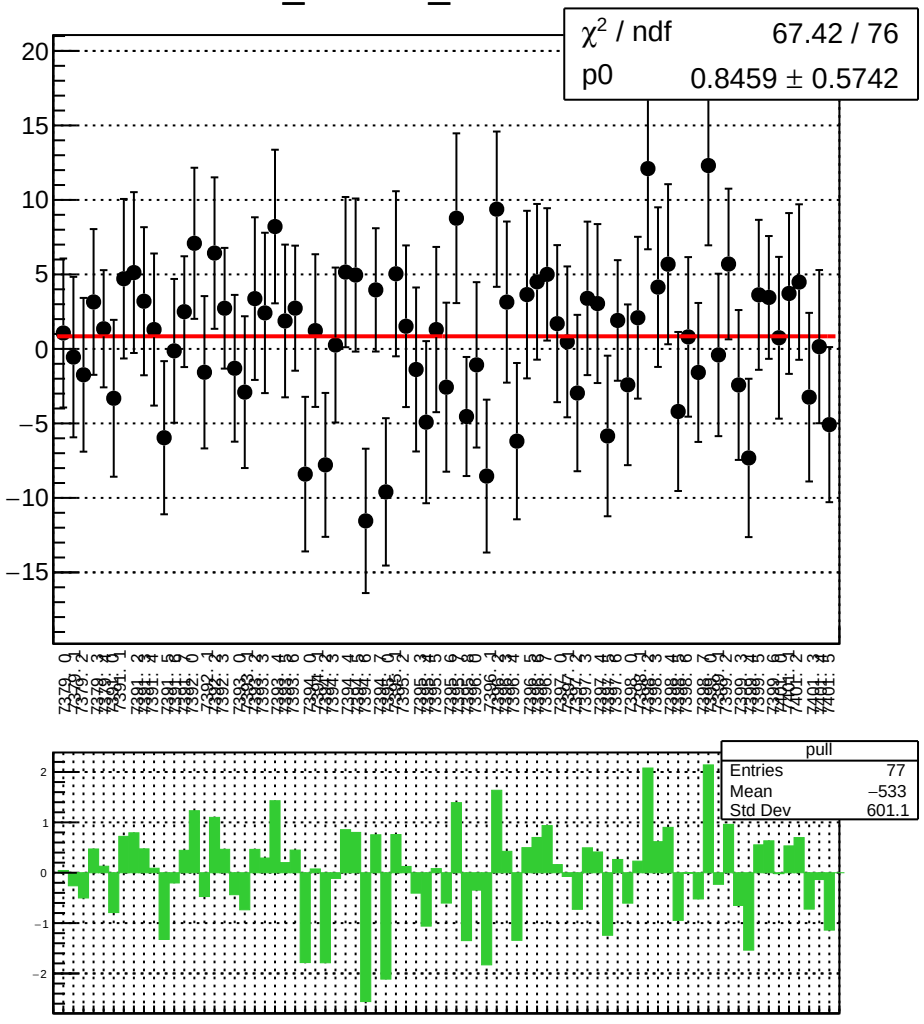

pull1D
Entries 77
Mean −0.001112
Std Dev 0.9471

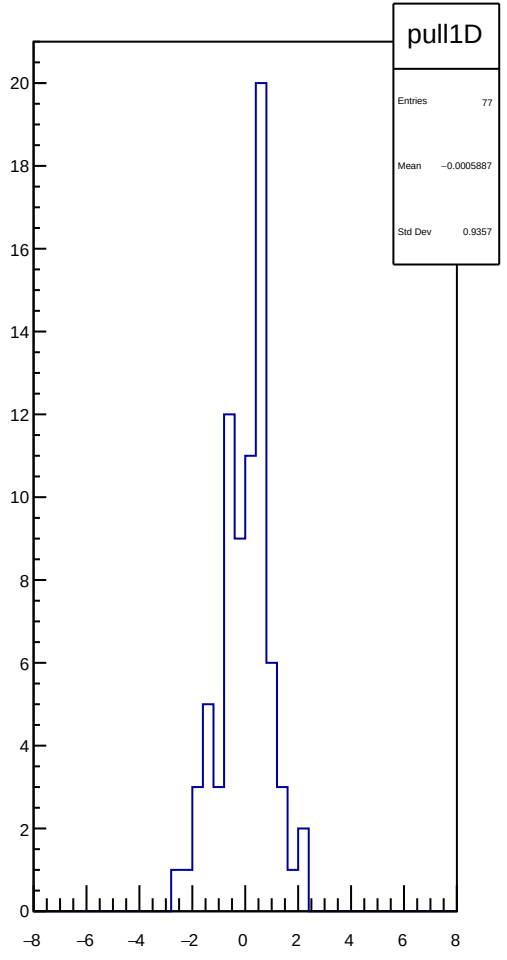

diff_cav4bY_rms vs run
χ² / ndf 2537 / 76
p0 4068 ± 3.318
4600
4400
4200
4000
3800

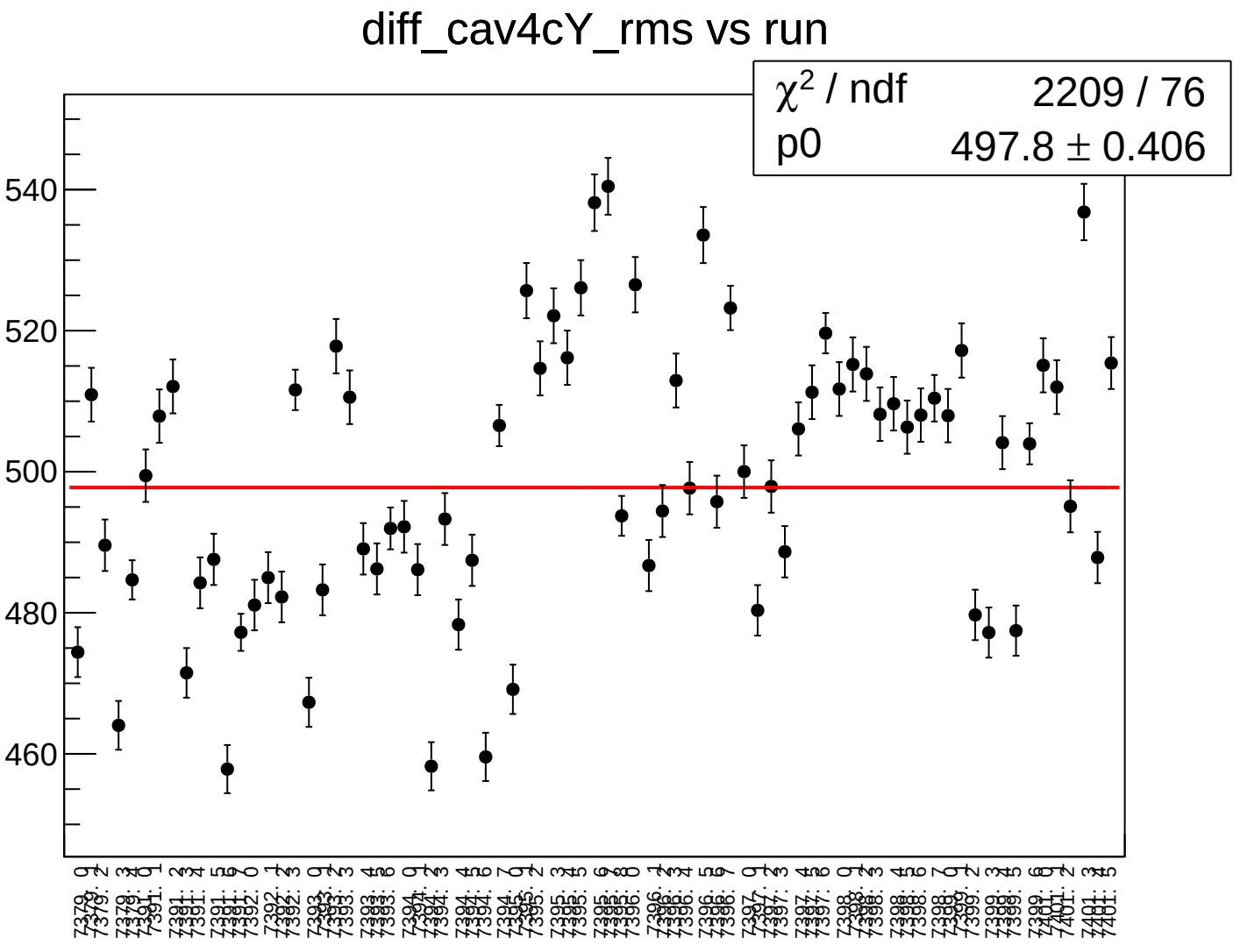

diff_cav4cX_mean vs run
χ^2 / ndf 80.06 / 76
p0 0.3151 ± 0.7499
pull
Entries 77
Mean −664.2
Std Dev 707.6

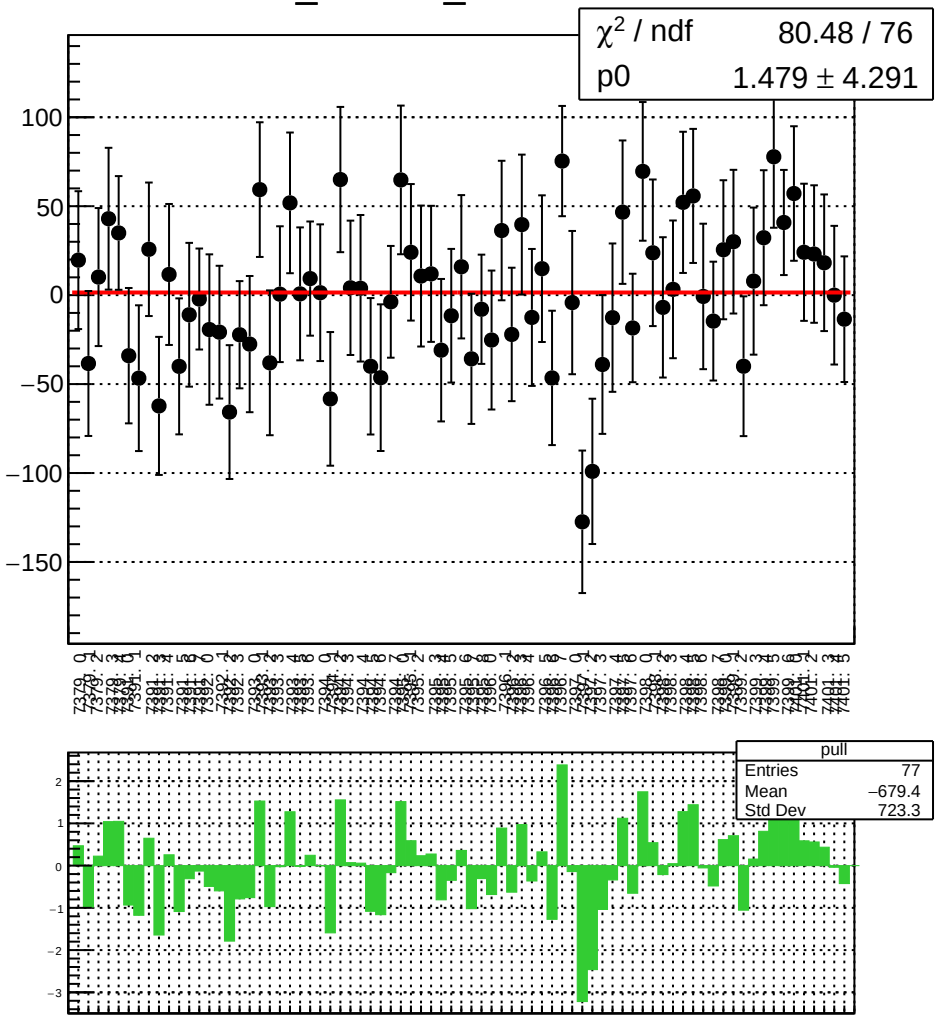

pull1D
Entries 77
Mean −0.007316
Std Dev 1.02

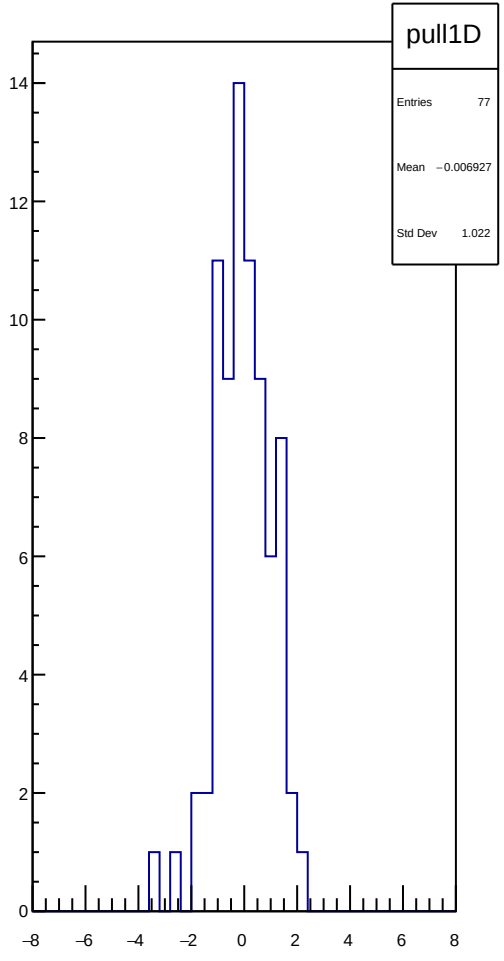

diff_cav4cX_rms vs run
χ² / ndf 1839 / 76
p0 650.2 ± 0.5302
700
680
660
640
620
600

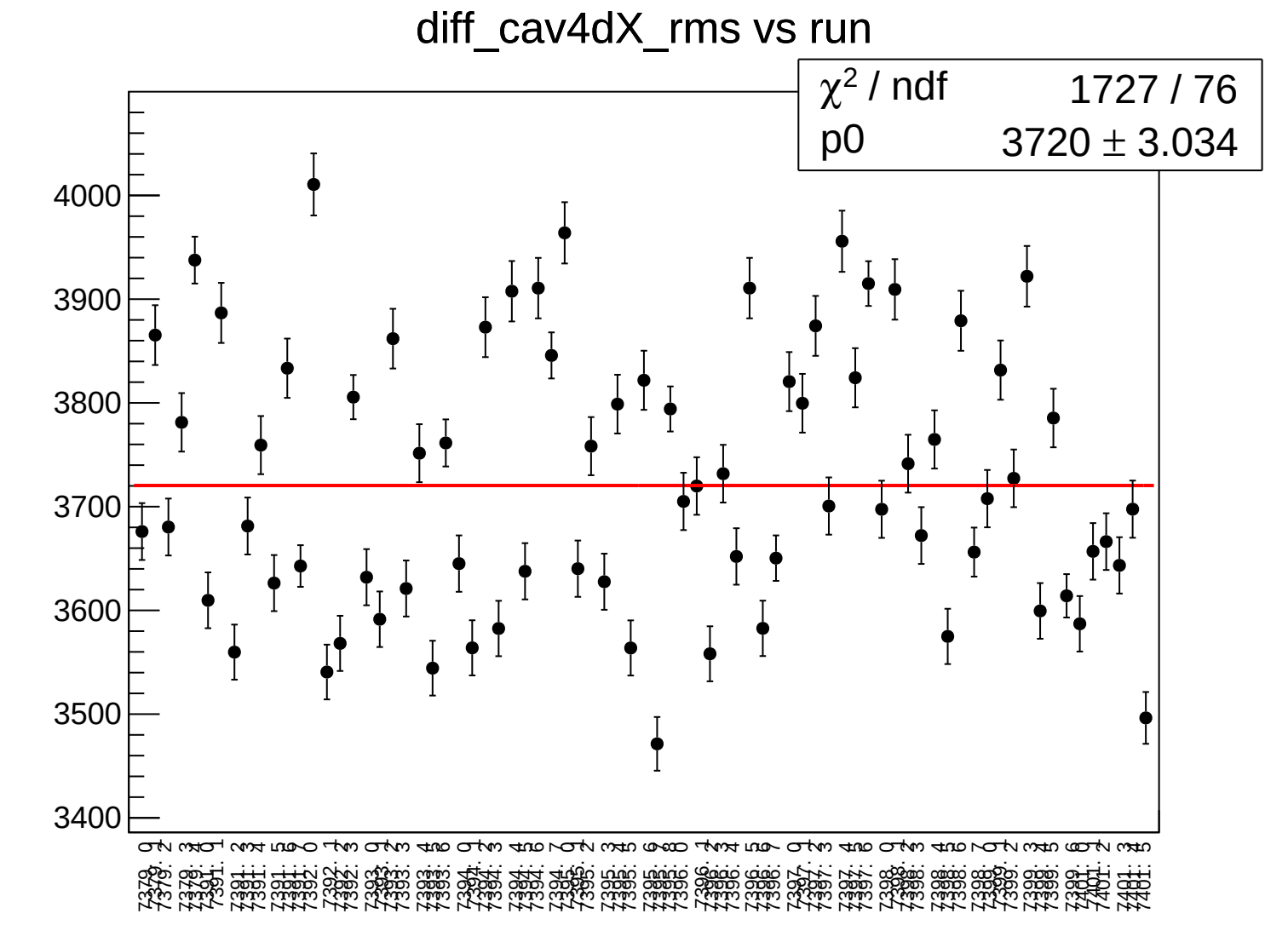

diff_cav4cY_mean vs run
χ² / ndf 67.42 / 76
p0 0.8459 ± 0.5742
pull
Entries 77
Mean −533
Std Dev 601.1

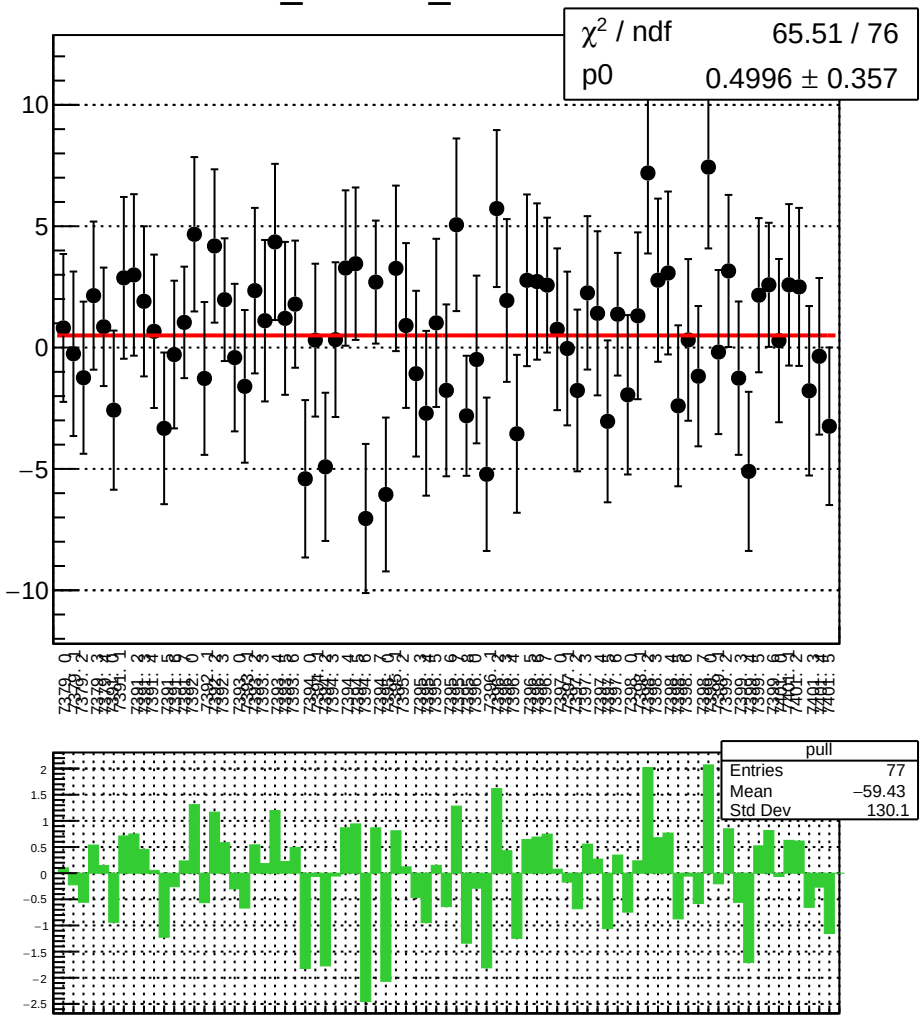

pull1D
Entries 77
Mean −0.0005887
Std Dev 0.9357

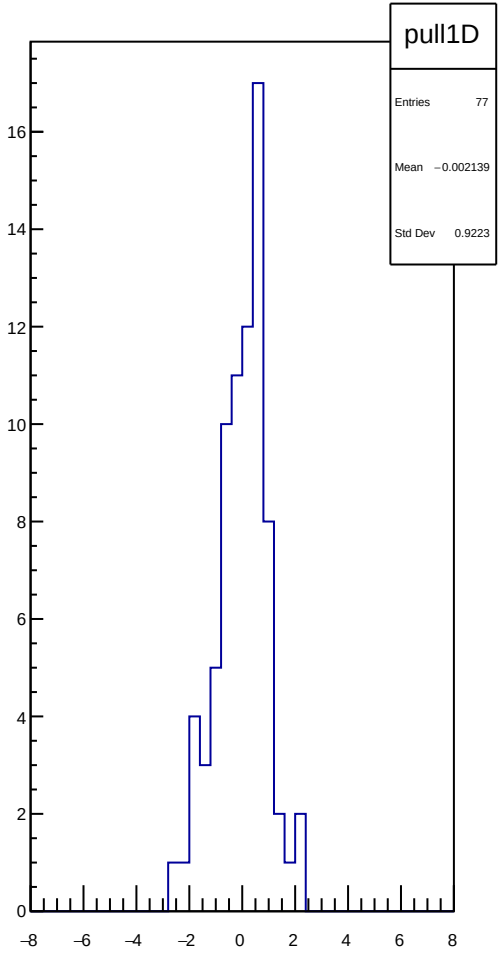

diff_cav4cY_rms vs run
χ^2 / ndf 2209 / 76
p0 497.8 ± 0.406
540
520
500
480
460

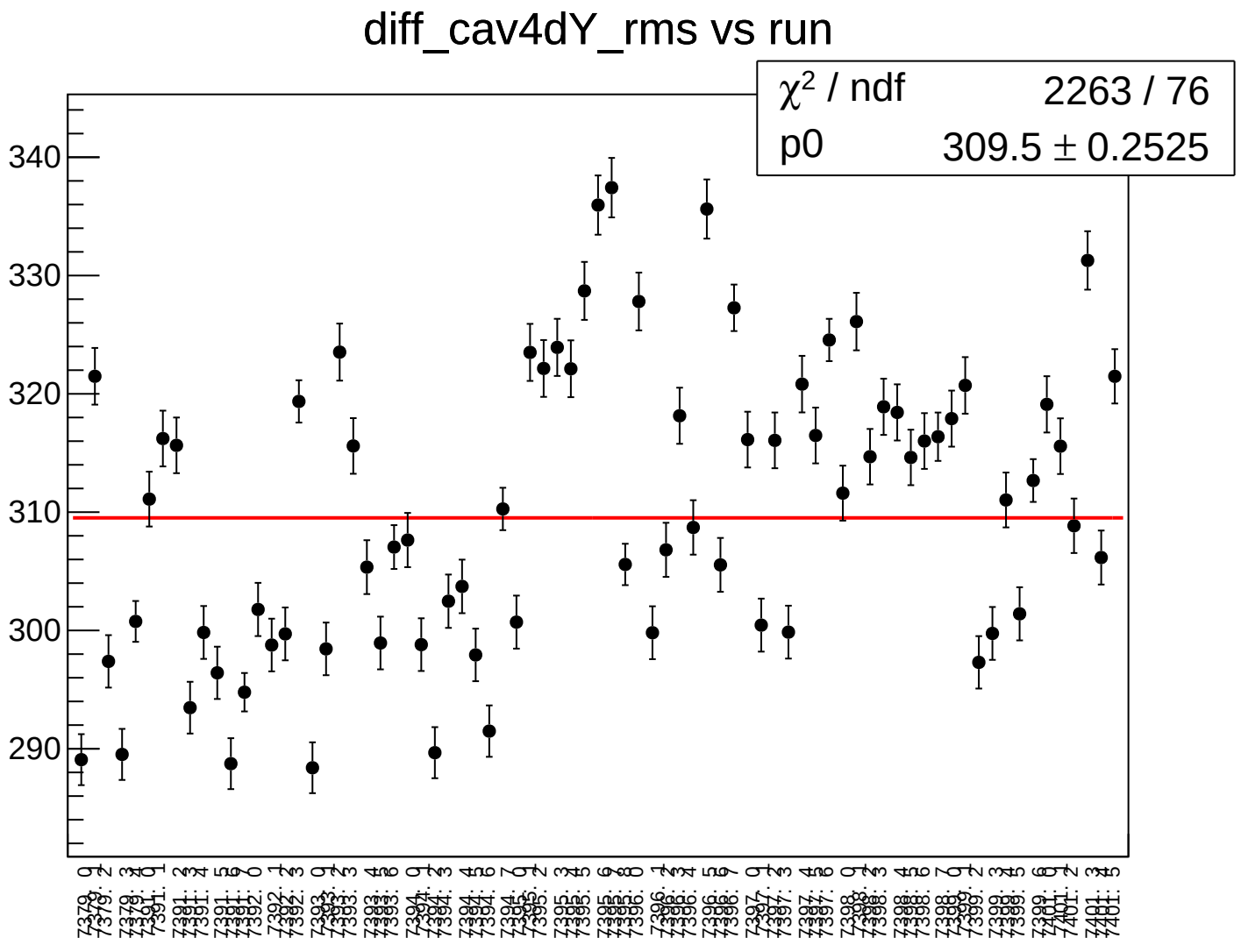

diff_cav4dX_mean vs run
χ^2 / ndf 80.48 / 76
p0 1.479 ± 4.291
100
50
0
−50
−100
−150
pull
Entries 77
Mean −679.4
Std Dev 723.3
2
1
0
−1
−2
−3

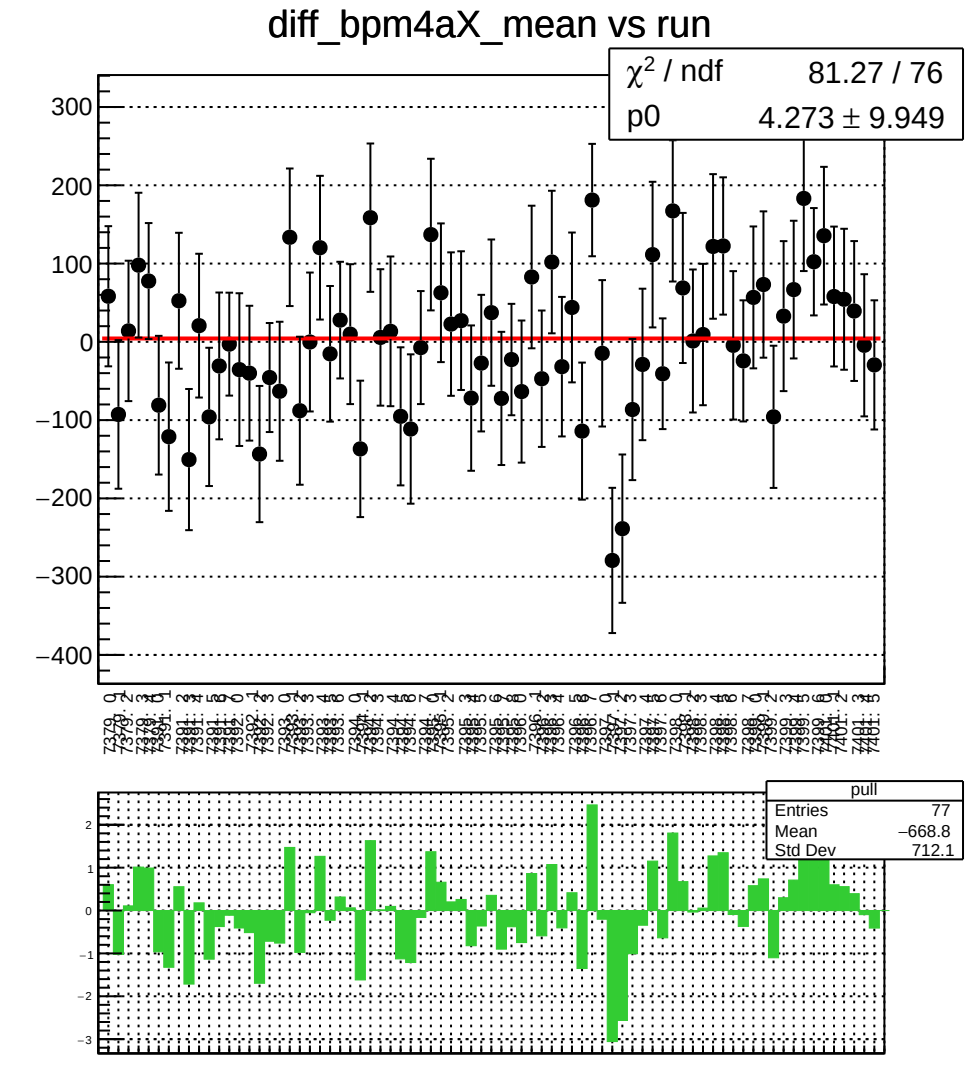

pull1D
Entries 77
Mean −0.006927
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

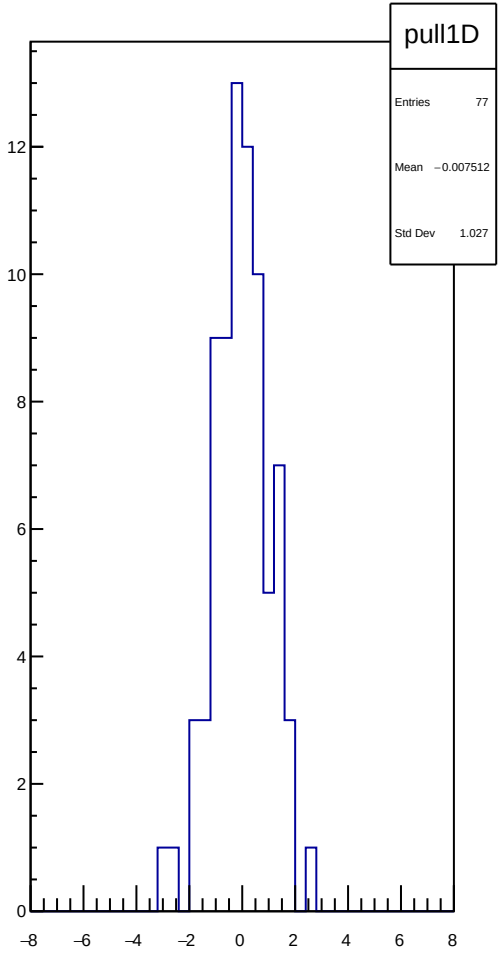

diff_cav4dX_rms vs run
χ² / ndf 1727 / 76
p0 3720 ± 3.034
4000
3900
3800
3700
3600
3500
3400

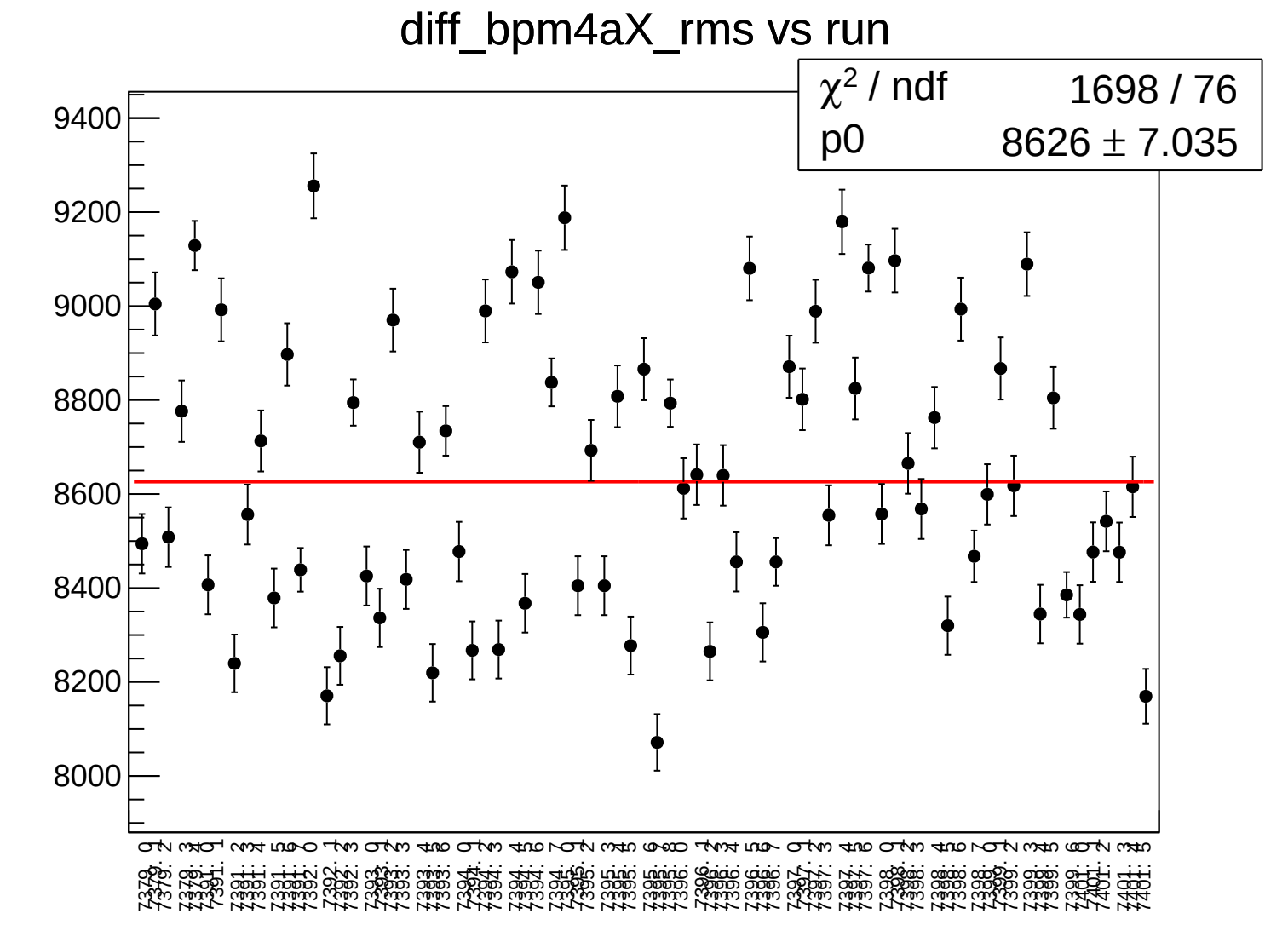

diff_cav4dY_mean vs run
χ² / ndf 65.51 / 76
p0 0.4996 ± 0.357
pull
Entries 77
Mean −59.43
Std Dev 130.1

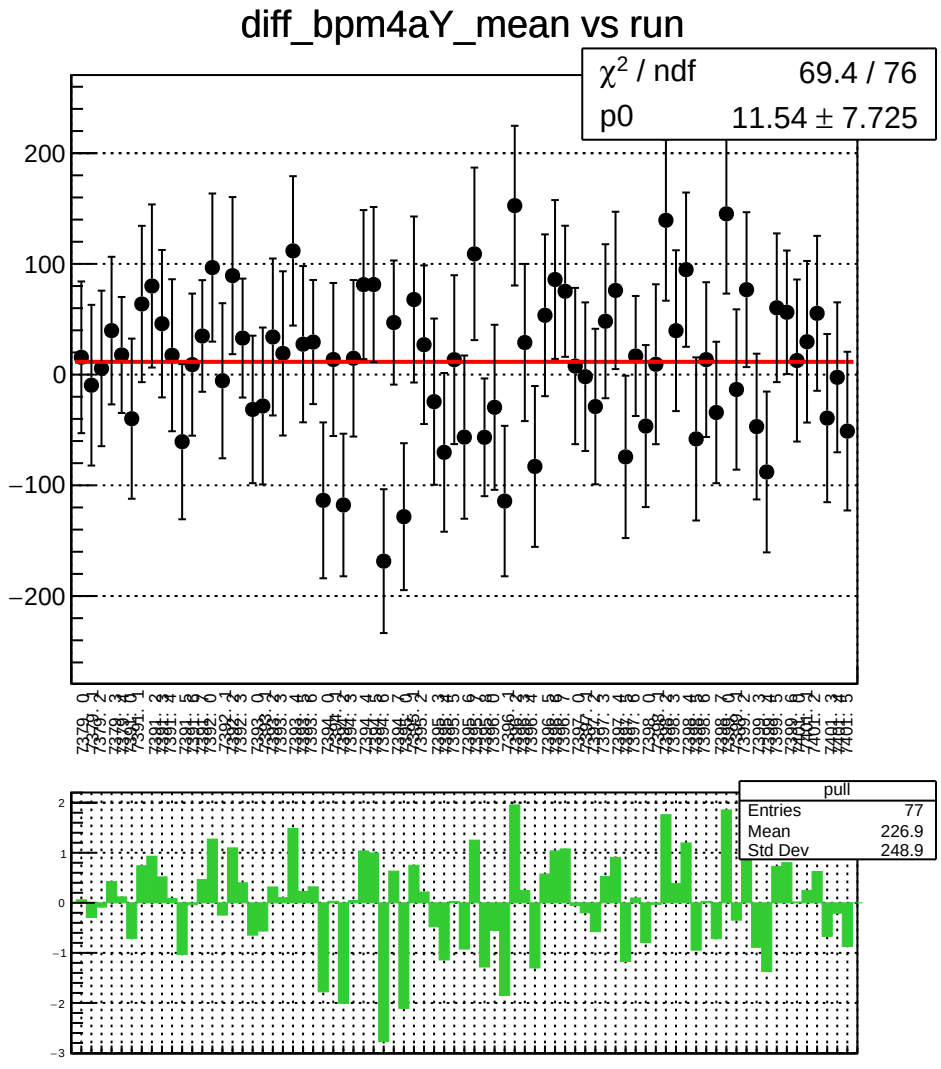

pull1D
Entries 77
Mean −0.002139
Std Dev 0.9223

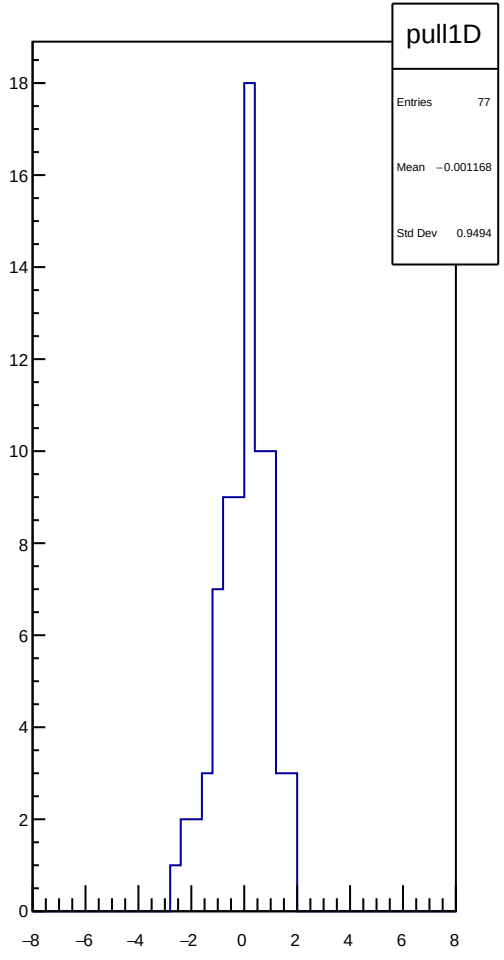

diff_cav4dY_rms vs run
χ² / ndf 2263 / 76
p0 309.5 ± 0.2525
340
330
320
310
300
290

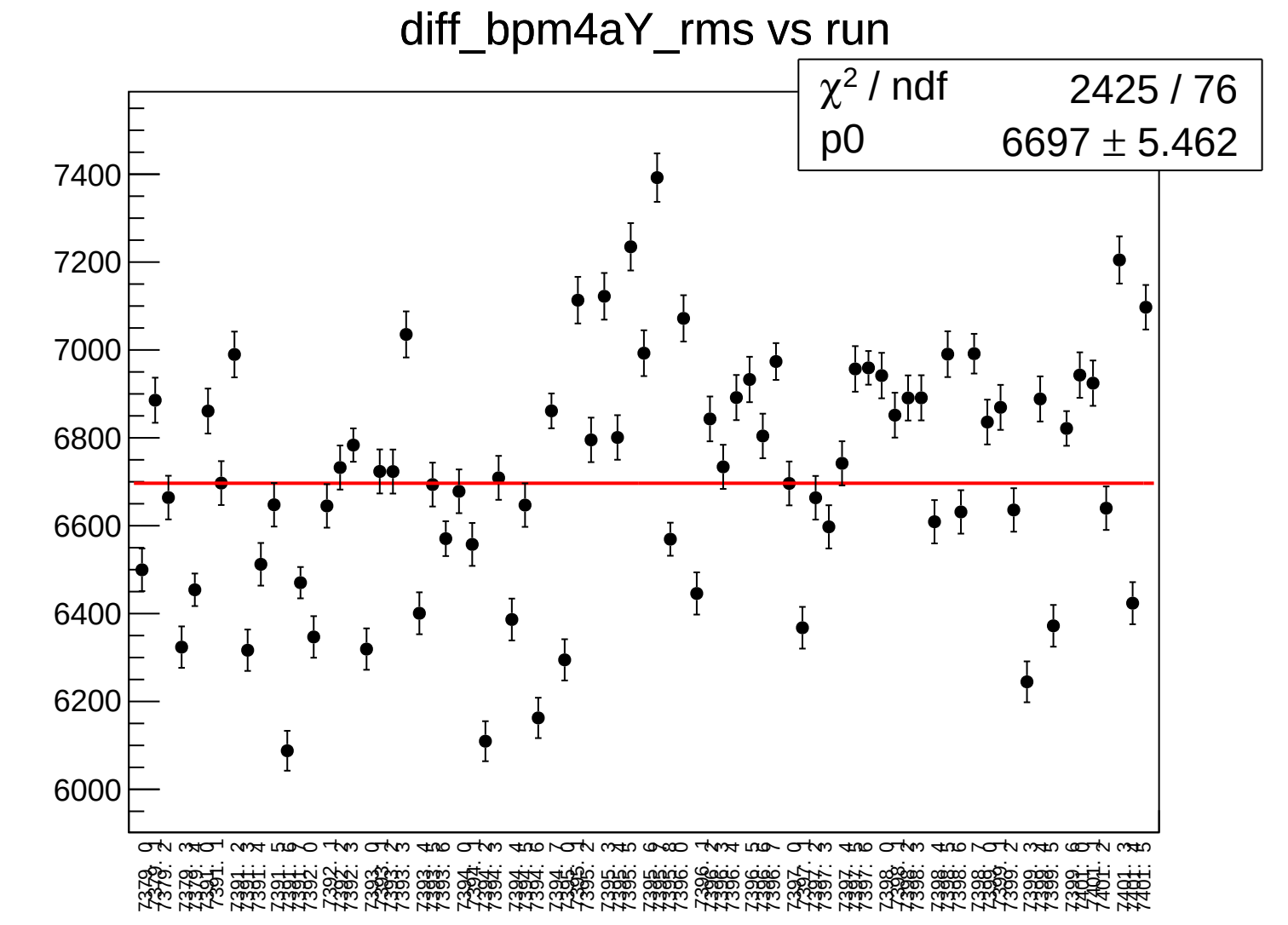

diff_bpm4aX_mean vs run
χ² / ndf 81.27 / 76
p0 4.273 ± 9.949
pull
Entries 77
Mean −668.8
Std Dev 712.1

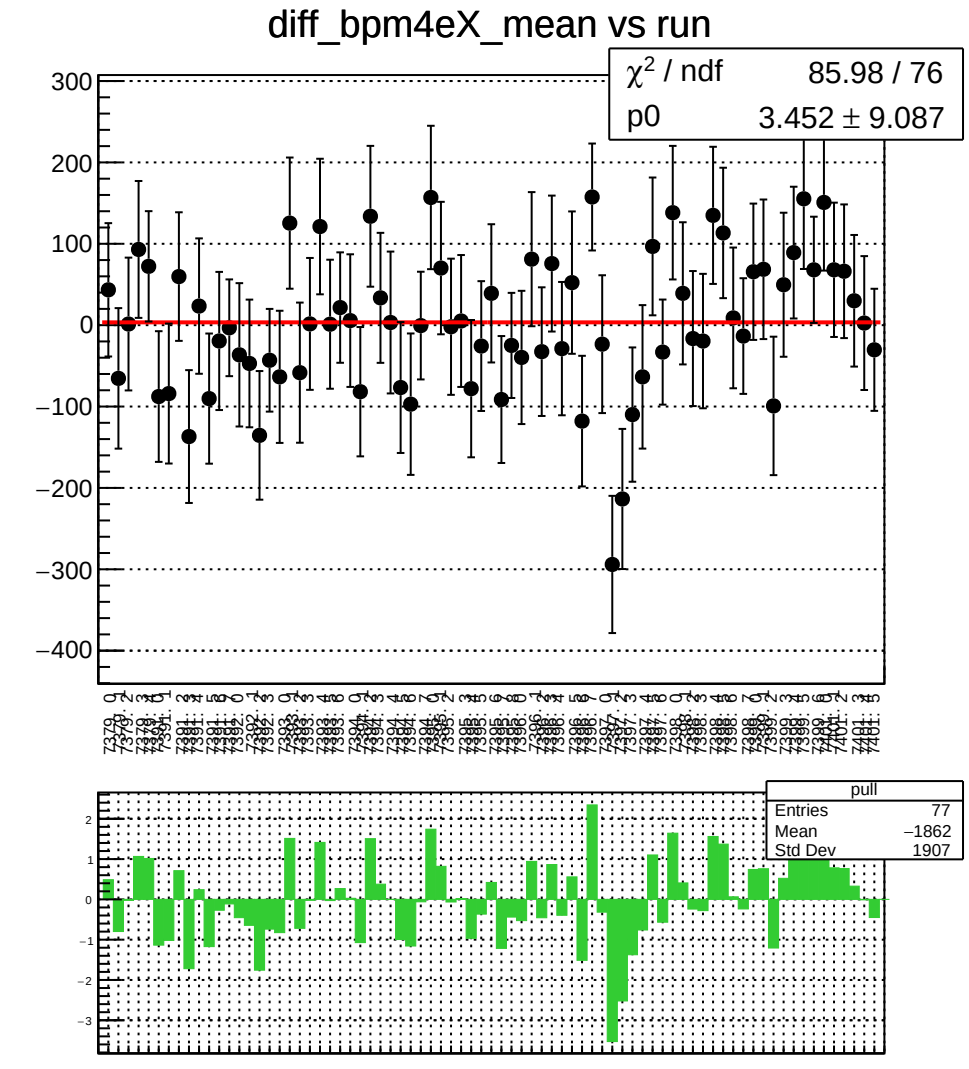

pull1D
Entries 77
Mean −0.007512
Std Dev 1.027

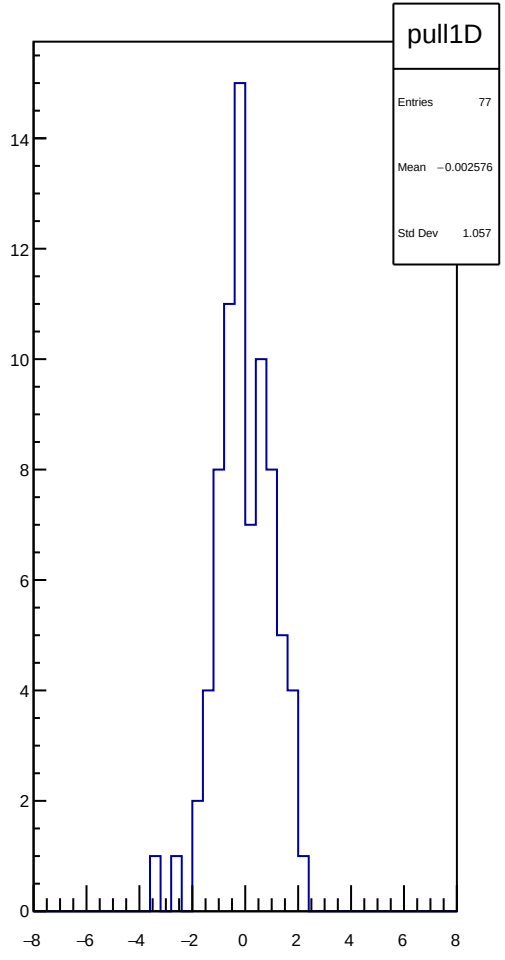

diff_bpm4aX_rms vs run
χ^2 / ndf 1698 / 76
p0 8626 ± 7.035
9400
9200
9000
8800
8600
8400
8200
8000

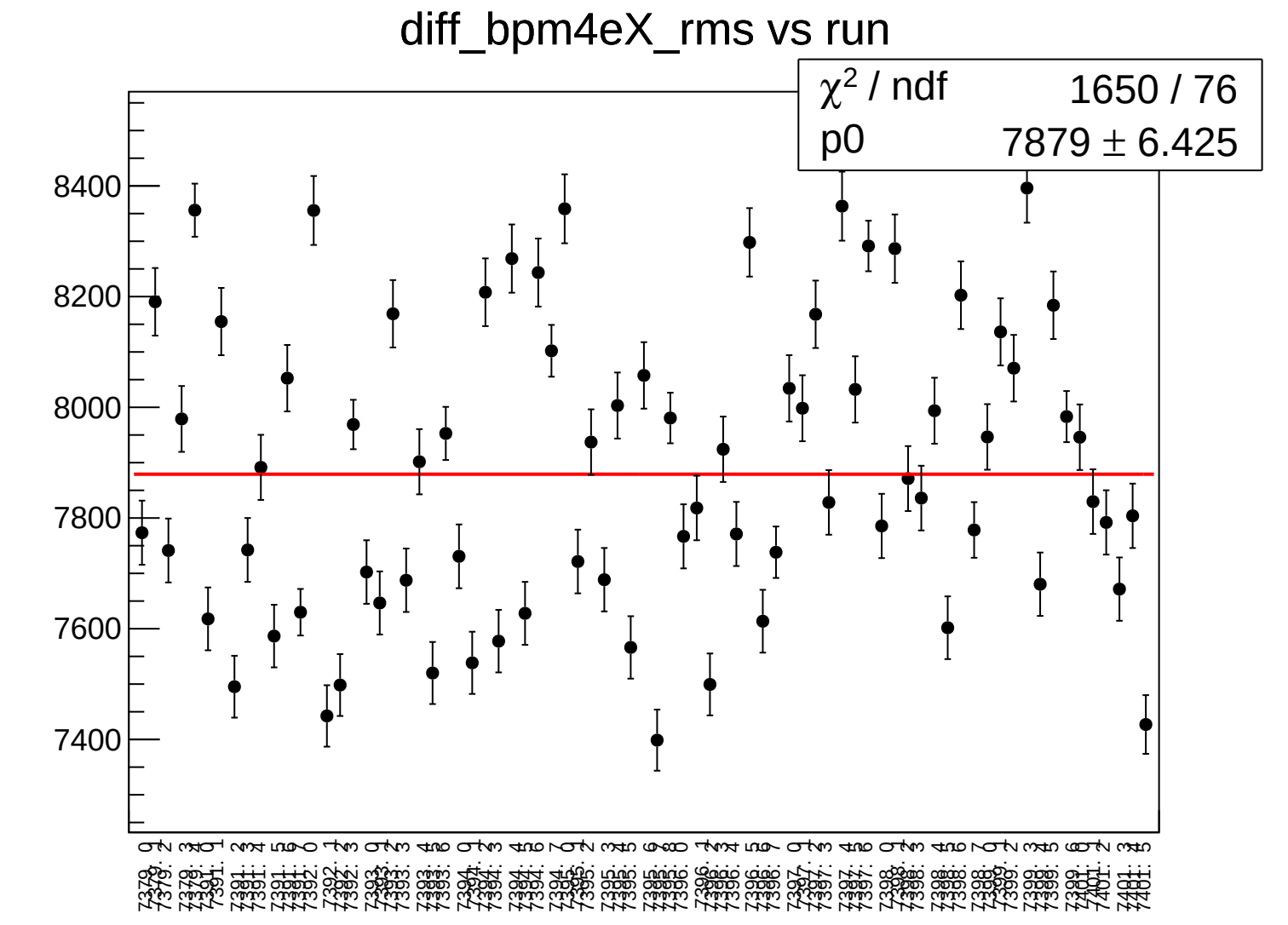

diff_bpm4aY_mean vs run
χ² / ndf 69.4 / 76
p0 11.54 ± 7.725
200
100
0
−100
−200
pull
Entries 77
Mean 226.9
Std Dev 248.9
2
1
0
−1
−2
−3

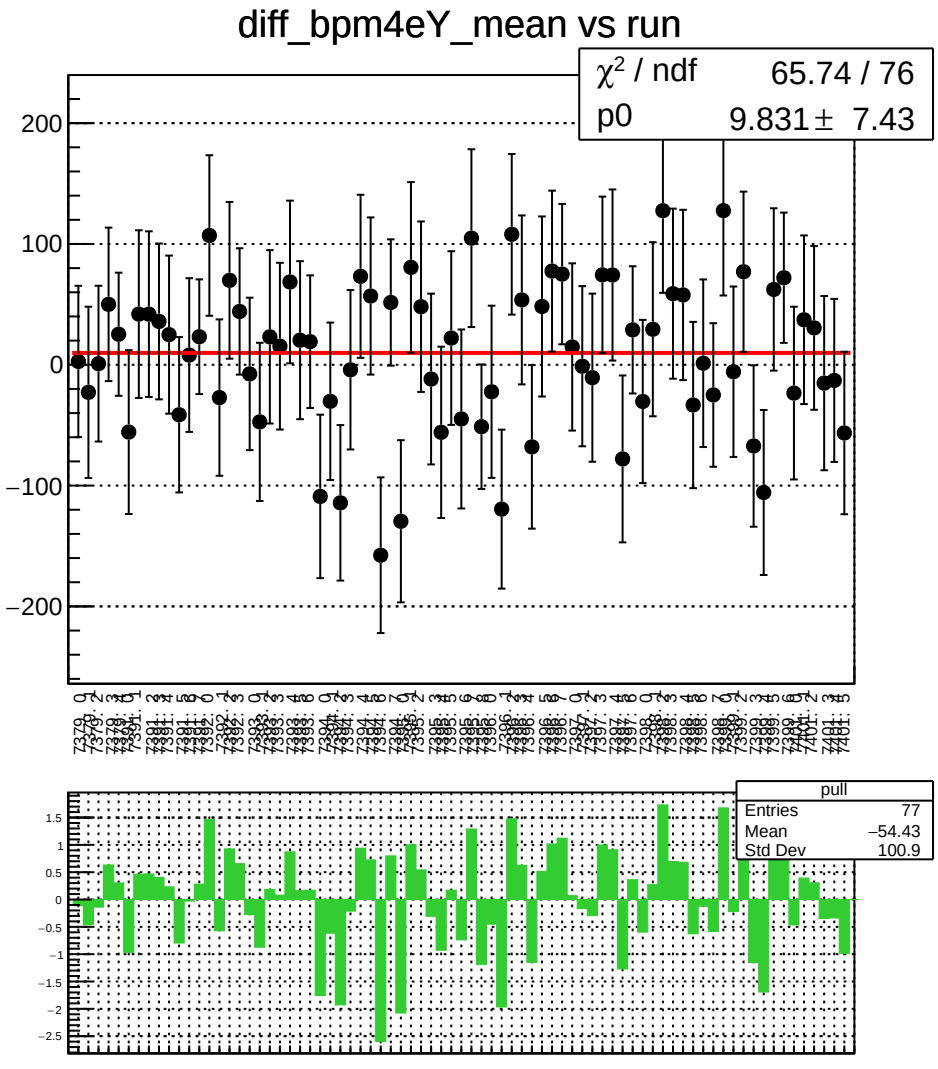

pull1D
Entries 77
Mean −0.001168
Std Dev 0.9494
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

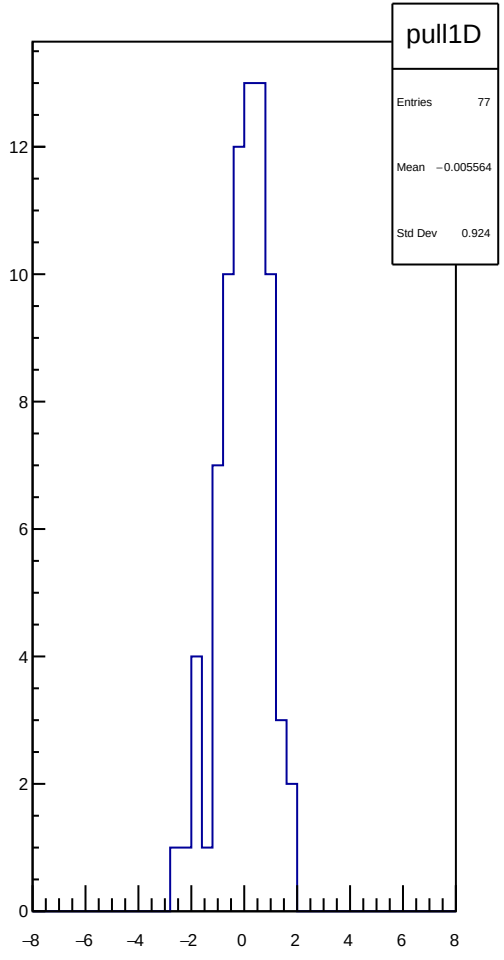

diff_bpm4aY_rms vs run
χ^2 / ndf 2425 / 76
p0 6697 ± 5.462
7400
7200
7000
6800
6600
6400
6200
6000

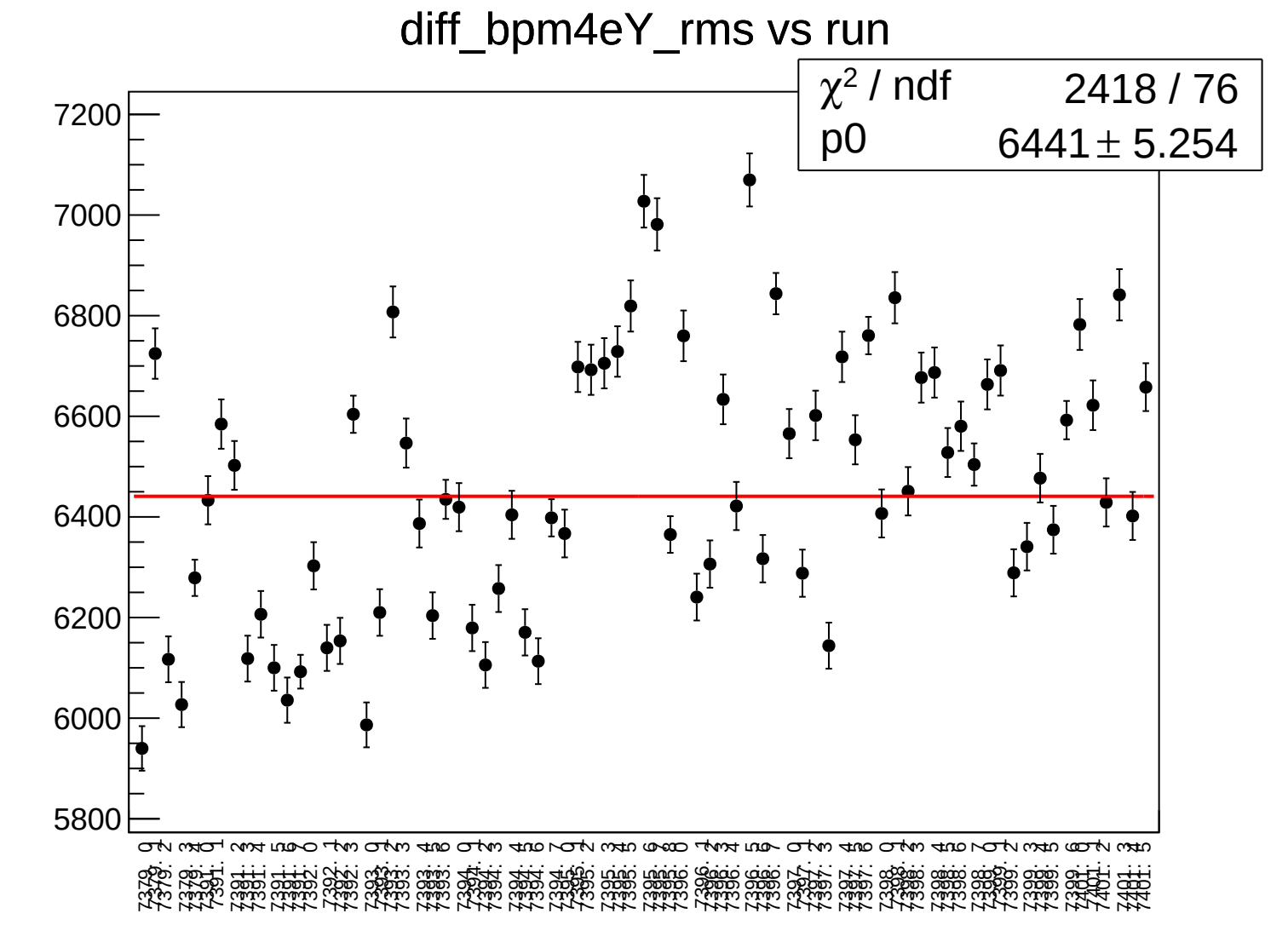

diff_bpm4eX_mean vs run
χ² / ndf 85.98 / 76
p0 3.452 ± 9.087
pull
Entries 77
Mean −1862
Std Dev 1907

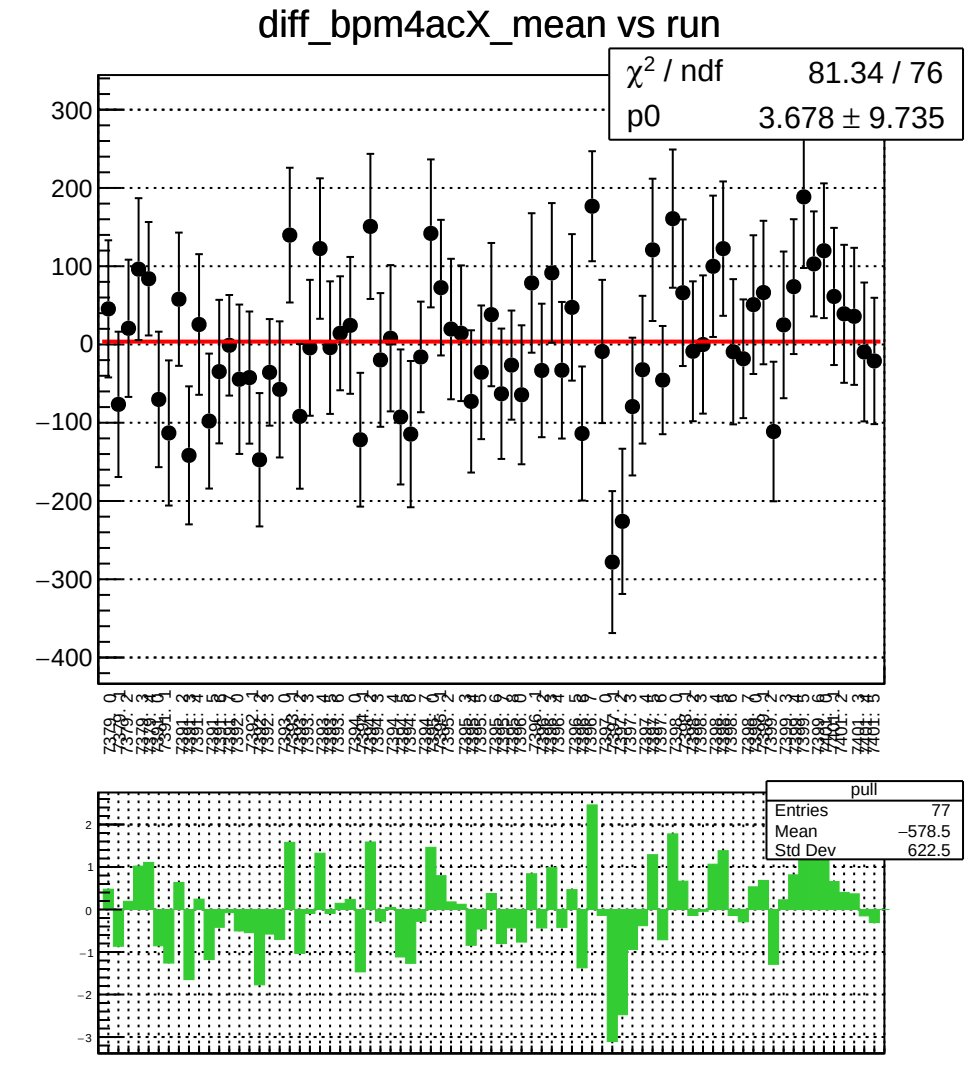

pull1D
Entries 77
Mean −0.002576
Std Dev 1.057

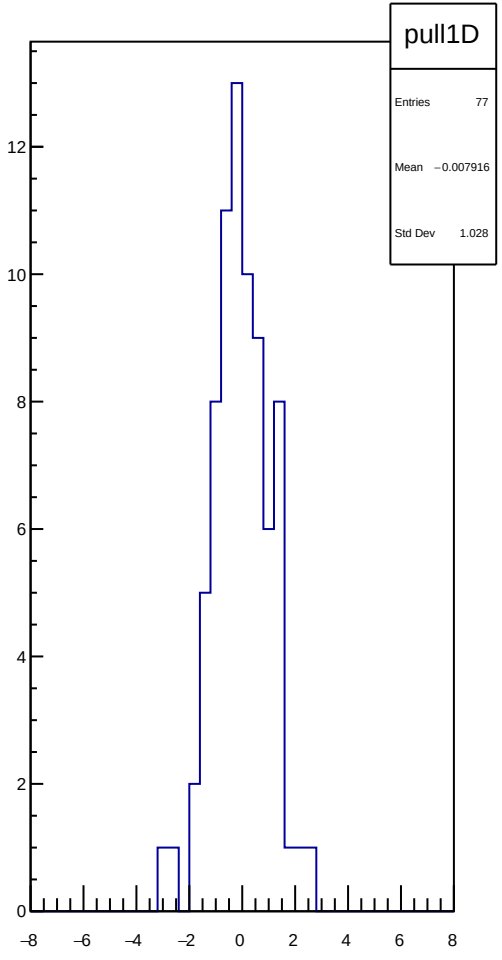

diff_bpm4eX_rms vs run
χ^2 / ndf 1650 / 76
p0 7879 ± 6.425
8400
8200
8000
7800
7600
7400

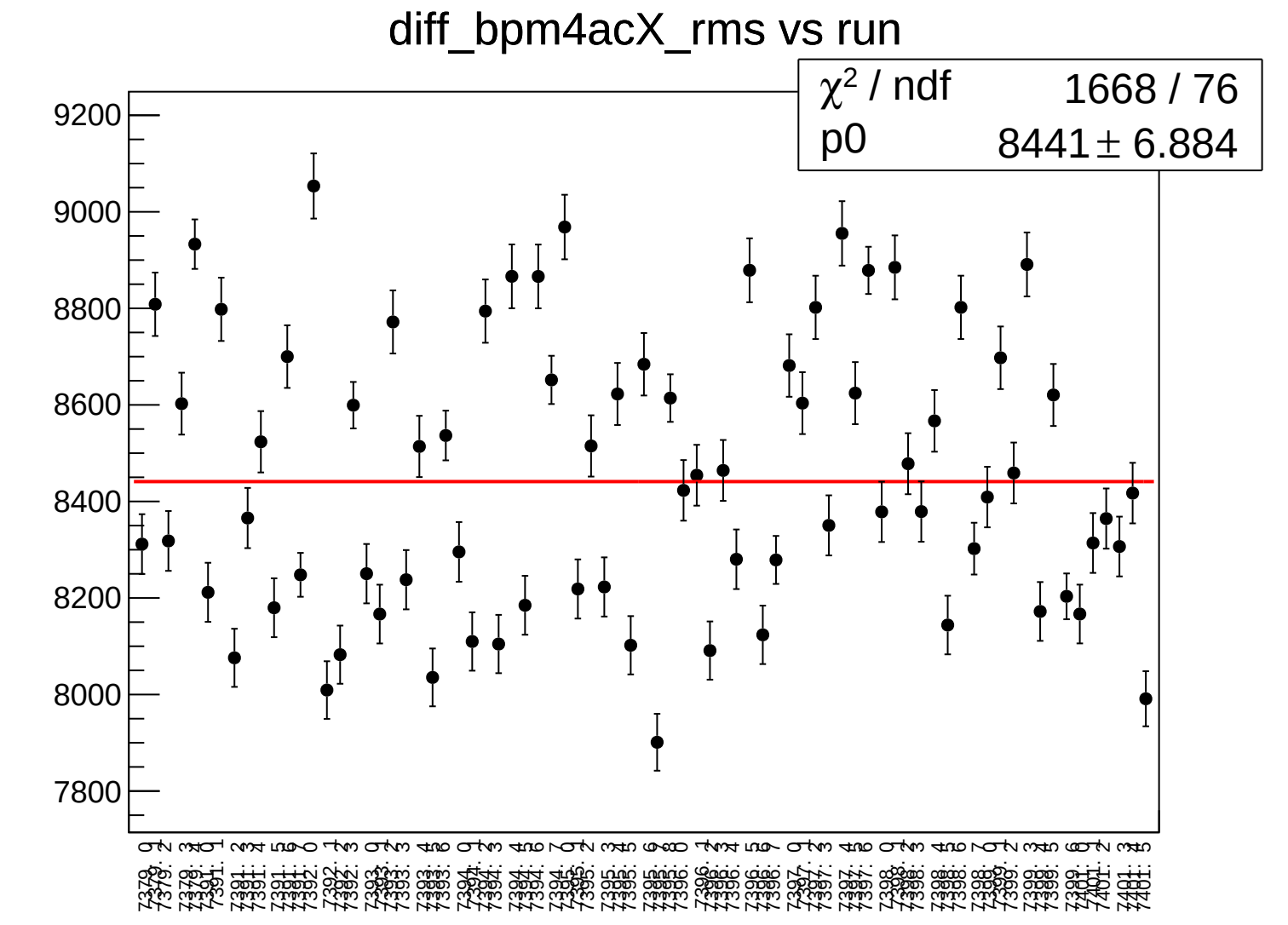

diff_bpm4eY_mean vs run
χ² / ndf 65.74 / 76
p0 9.831 ± 7.43
200
100
0
−100
−200
pull
Entries 77
Mean −54.43
Std Dev 100.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

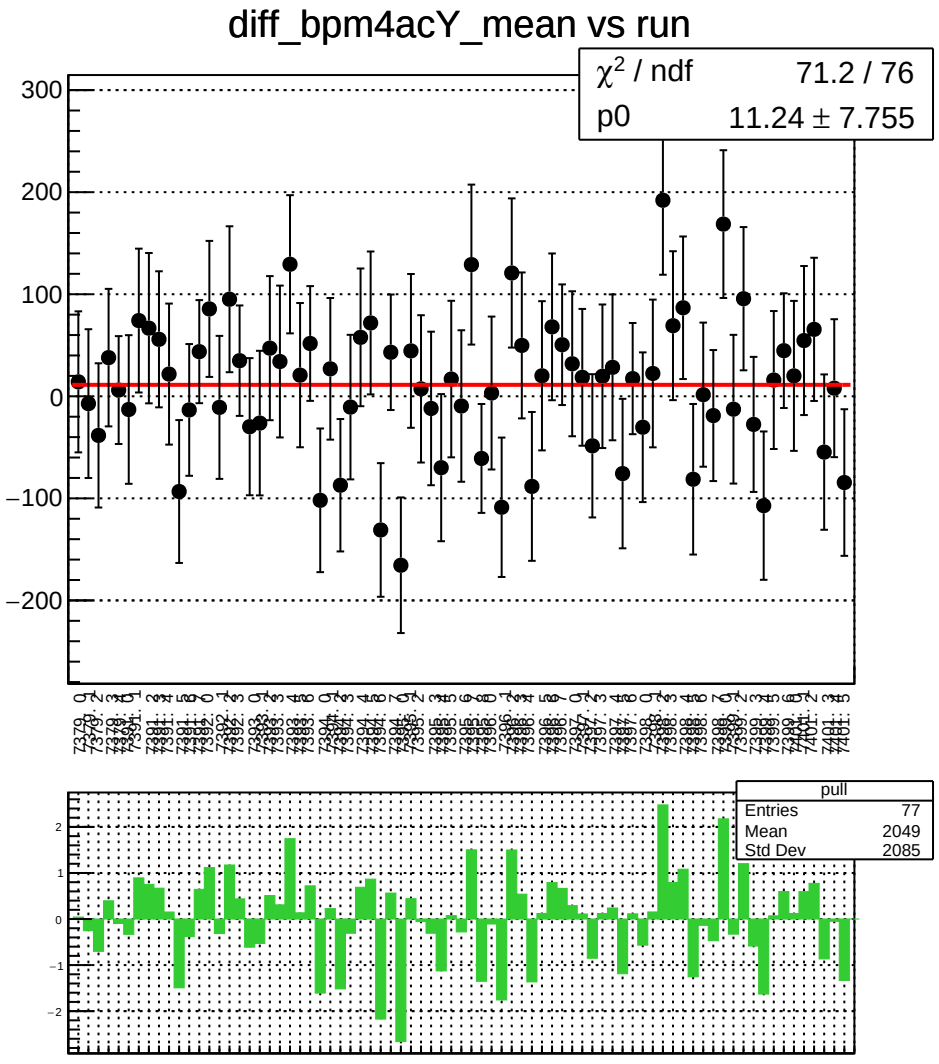

pull1D
Entries 77
Mean −0.005564
Std Dev 0.924
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

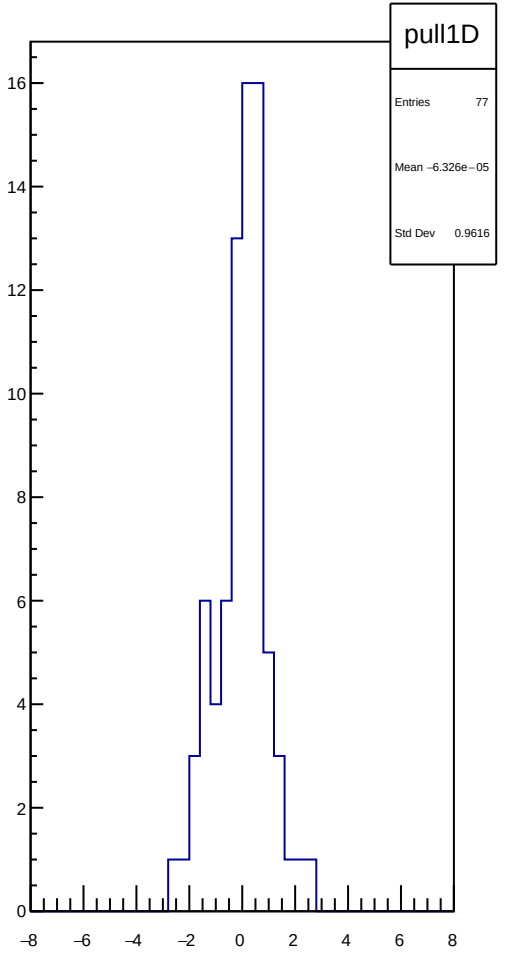

diff_bpm4eY_rms vs run
χ^2 / ndf 2418 / 76
p0 6441 ± 5.254
7200
7000
6800
6600
6400
6200
6000
5800

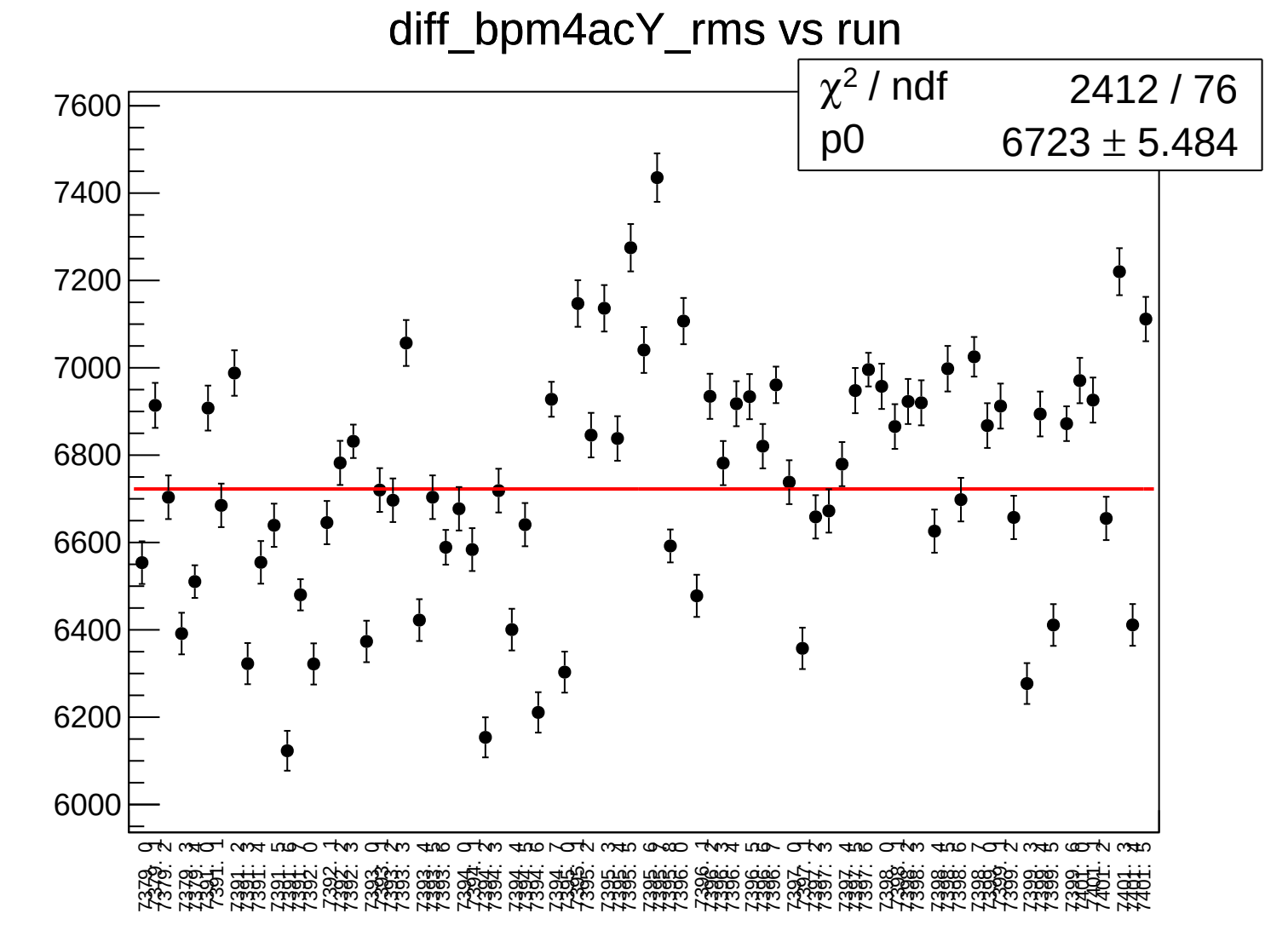

diff_bpm4acX_mean vs run
χ² / ndf 81.34 / 76
p0 3.678 ± 9.735
pull
Entries 77
Mean −578.5
Std Dev 622.5

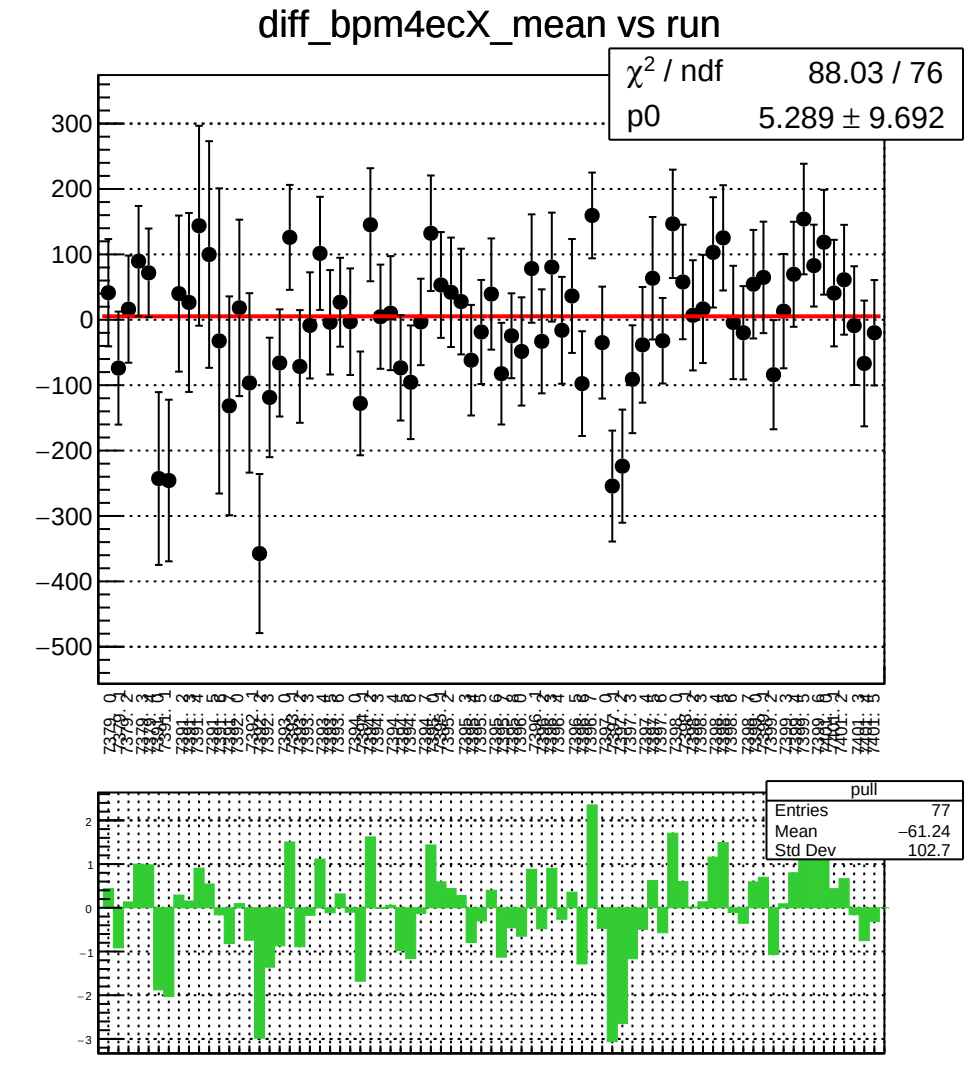

pull1D
Entries 77
Mean −0.007916
Std Dev 1.028

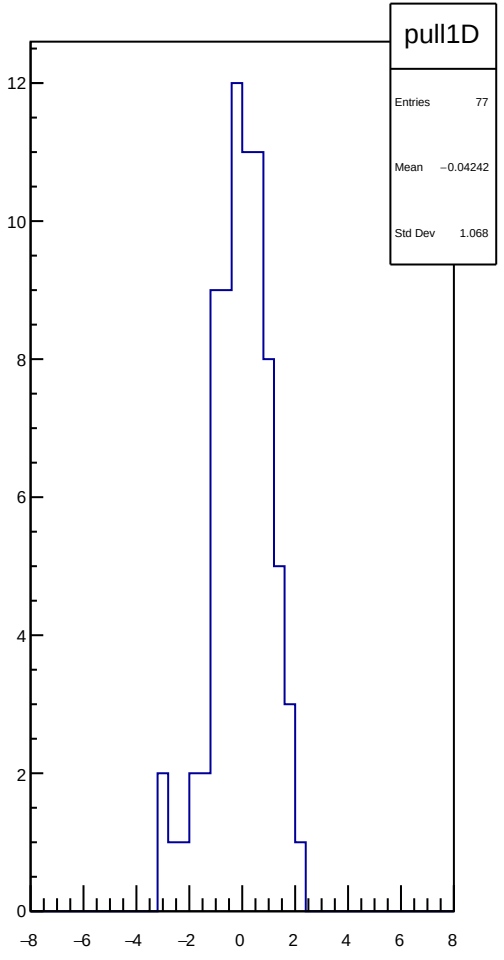

diff_bpm4acX_rms vs run
χ^2 / ndf 1668 / 76
p0 8441 ± 6.884
9200
9000
8800
8600
8400
8200
8000
7800

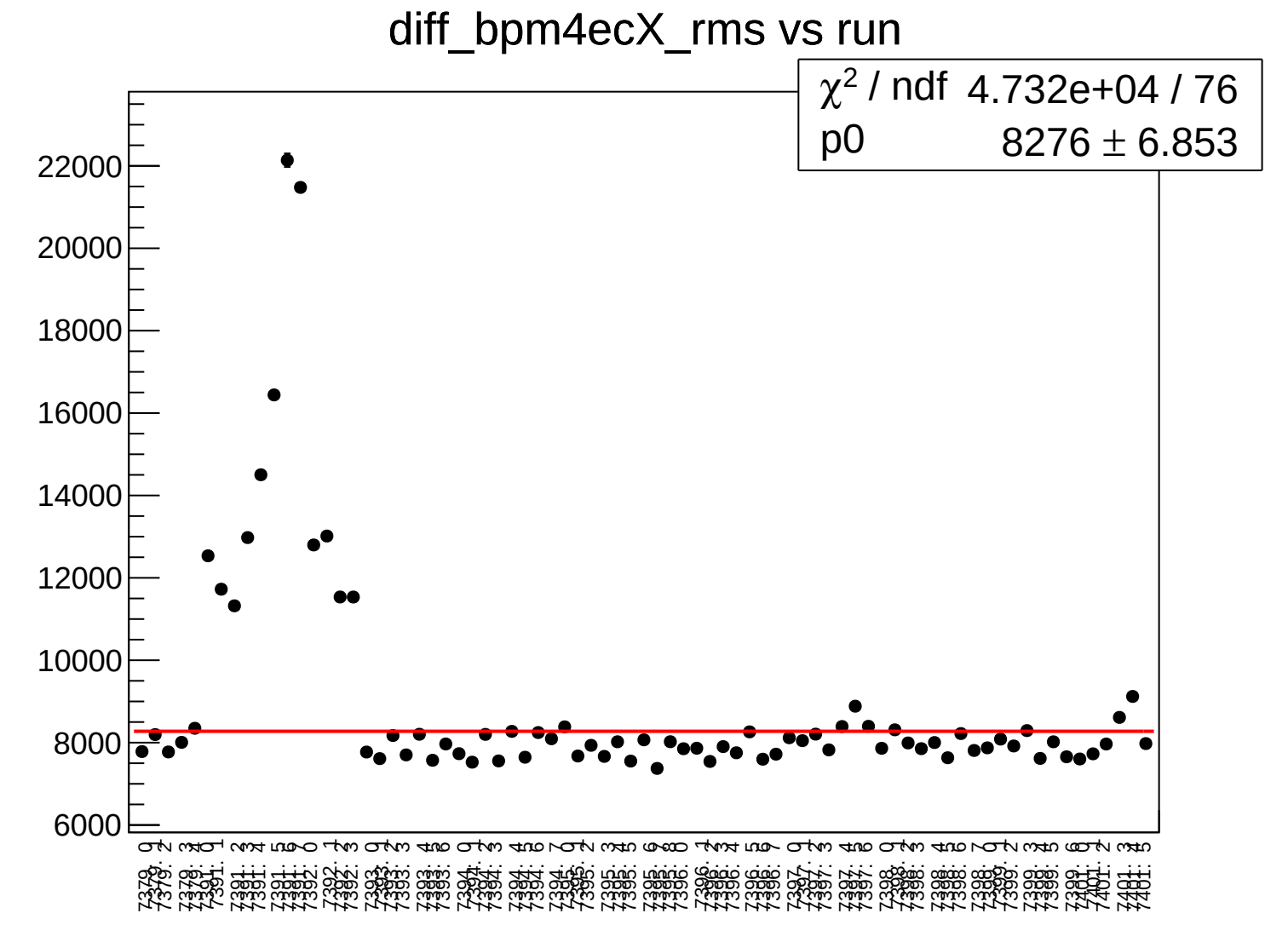

diff_bpm4acY_mean vs run
χ² / ndf 71.2 / 76
p0 11.24 ± 7.755
pull
Entries 77
Mean 2049
Std Dev 2085

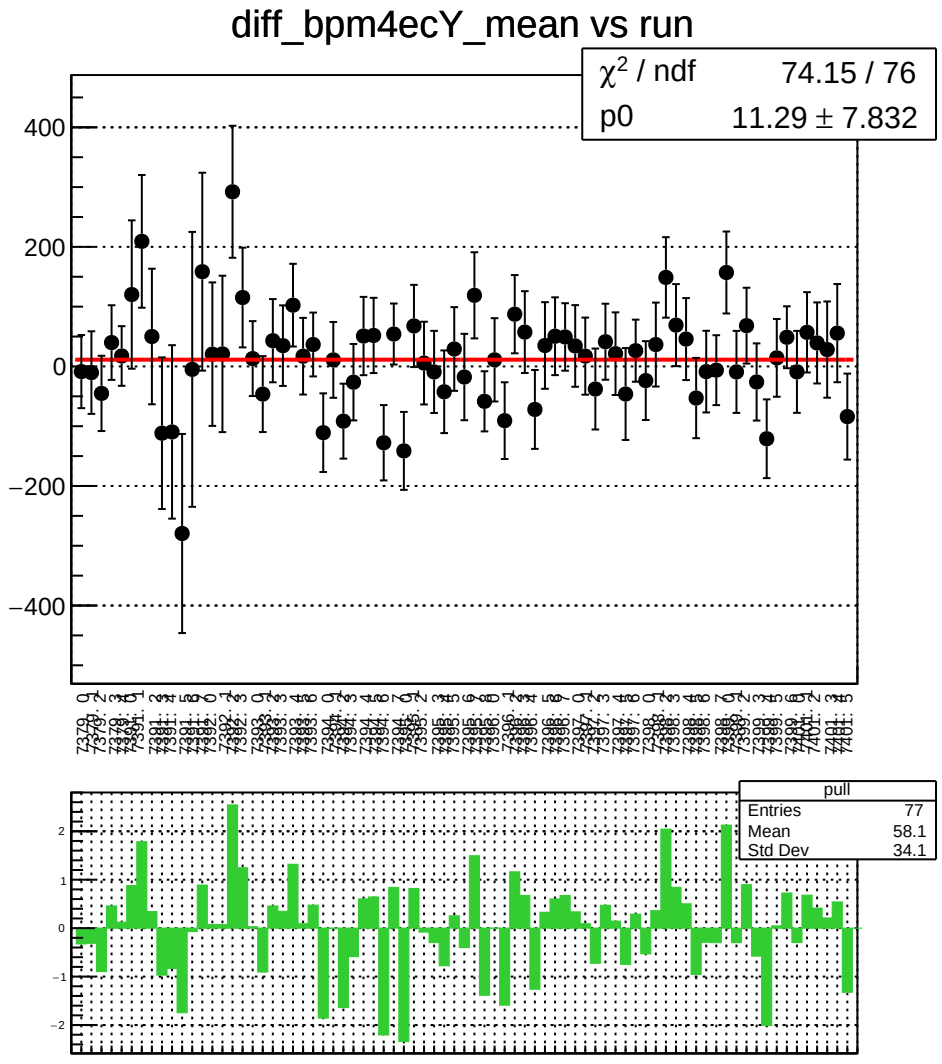

pull1D
Entries 77
Mean −6.326e−05
Std Dev 0.9616

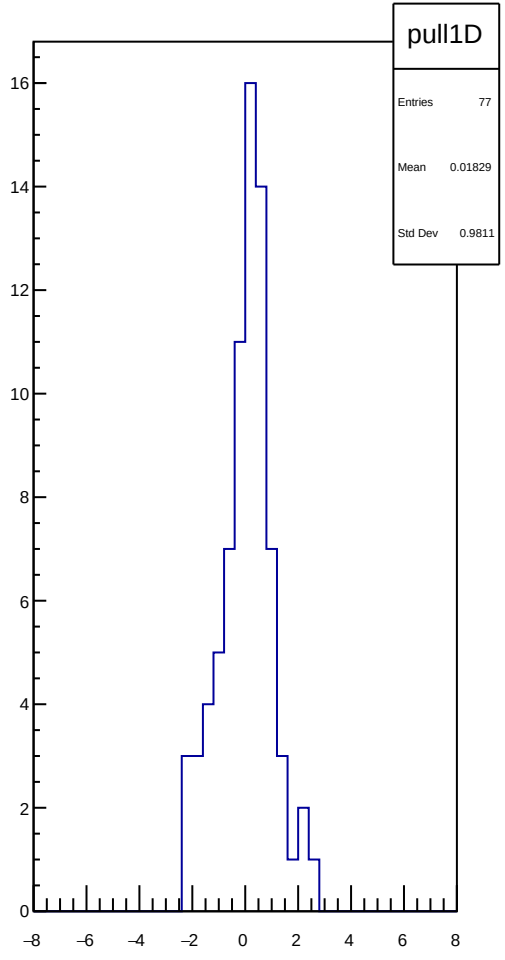

diff_bpm4acY_rms vs run
χ^2 / ndf 2412 / 76
p0 6723 ± 5.484
7600
7400
7200
7000
6800
6600
6400
6200
6000

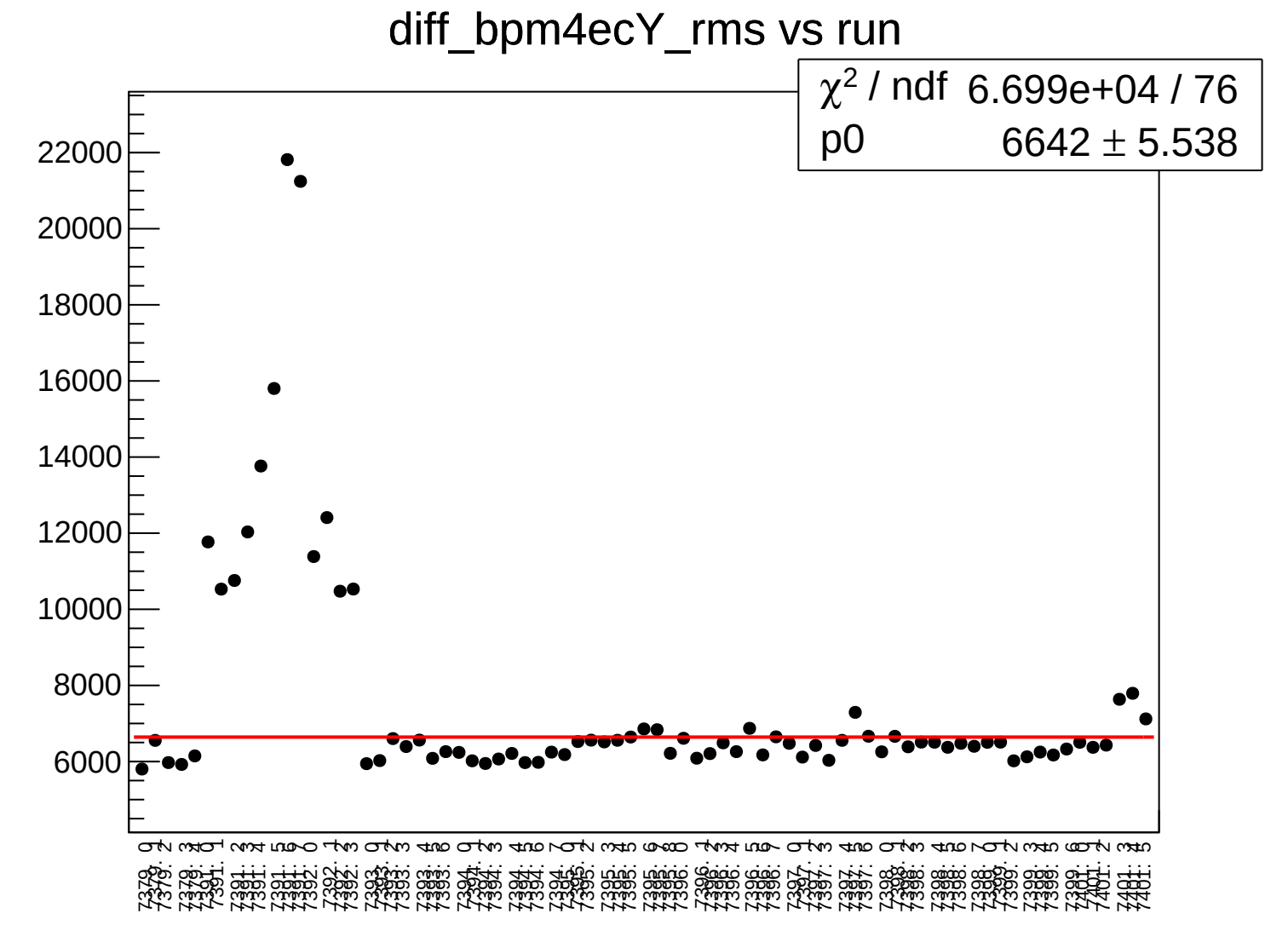

diff_bpm4ecX_mean vs run
χ^2 / ndf 88.03 / 76
p0 5.289 ± 9.692
pull
Entries 77
Mean −61.24
Std Dev 102.7

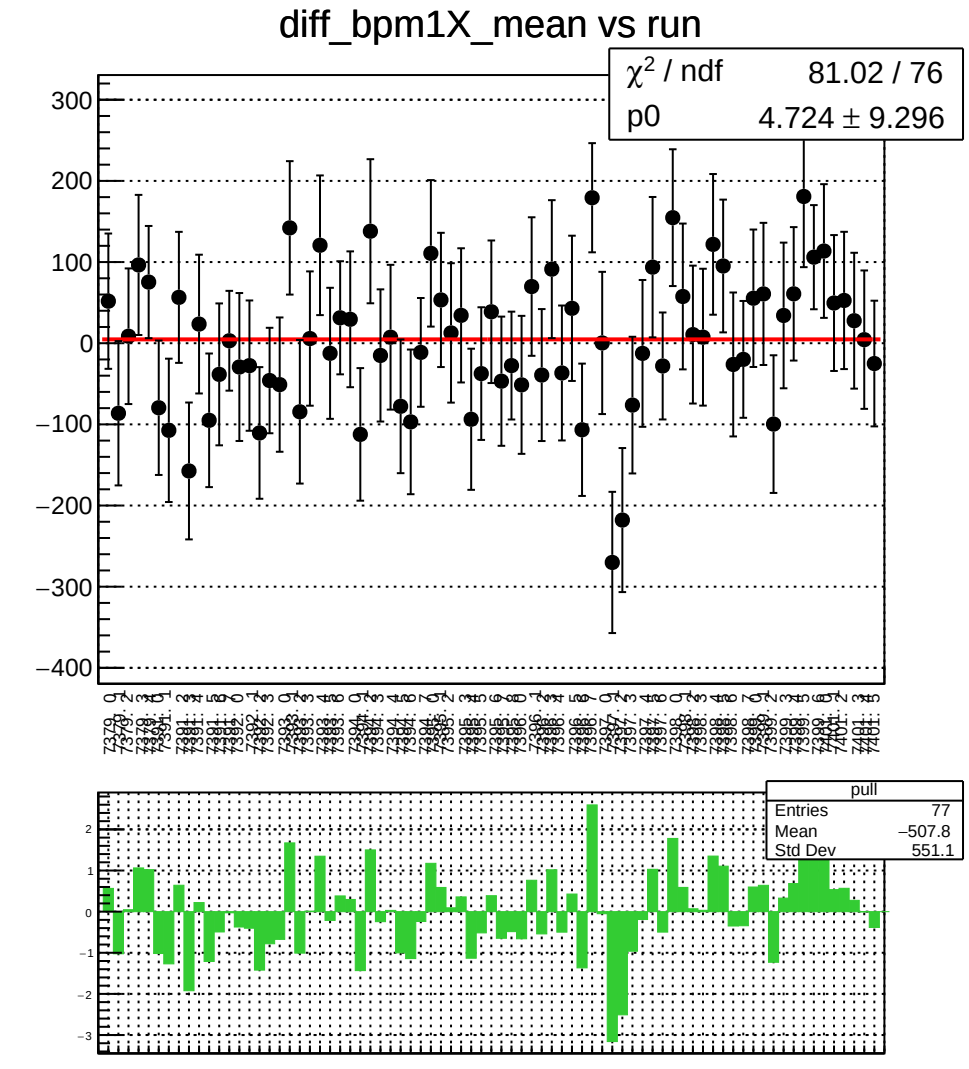

pull1D
Entries 77
Mean −0.04242
Std Dev 1.068

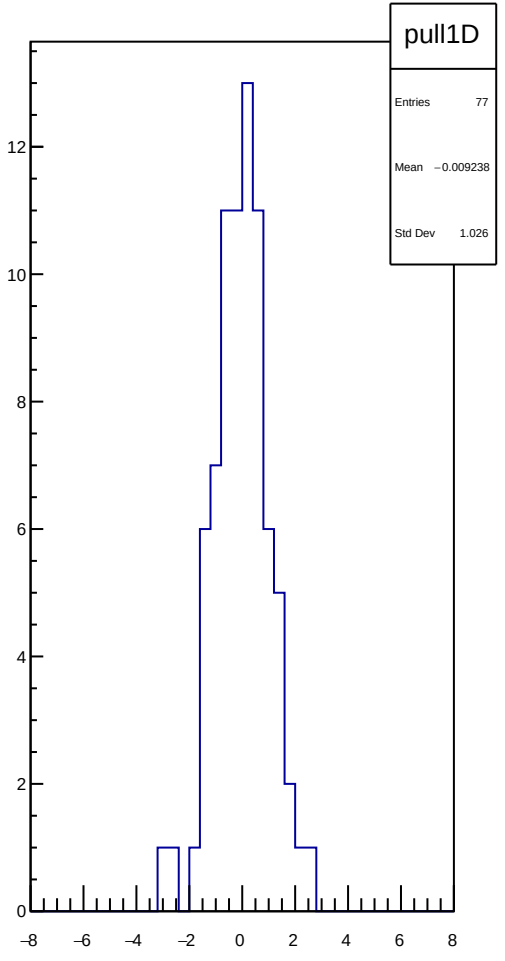

diff_bpm4ecX_rms vs run
χ² / ndf 4.732e+04 / 76
p0 8276 ± 6.853
22000
20000
18000
16000
14000
12000
10000
8000
6000

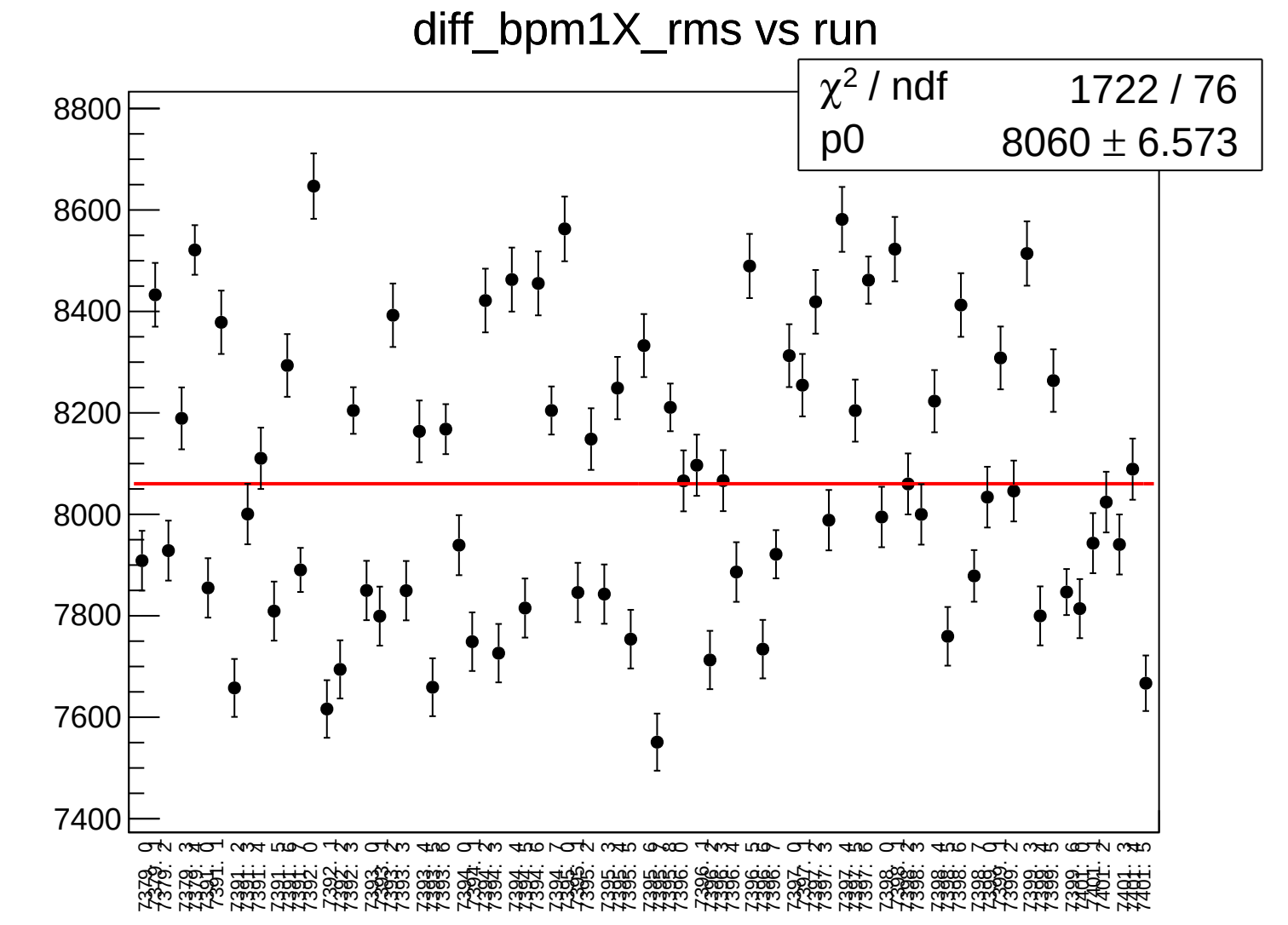

diff_bpm4ecY_mean vs run
χ^2 / ndf 74.15 / 76
p0 11.29 ± 7.832
400
200
0
−200
−400
pull
Entries 77
Mean 58.1
Std Dev 34.1
2
1
0
−1
−2

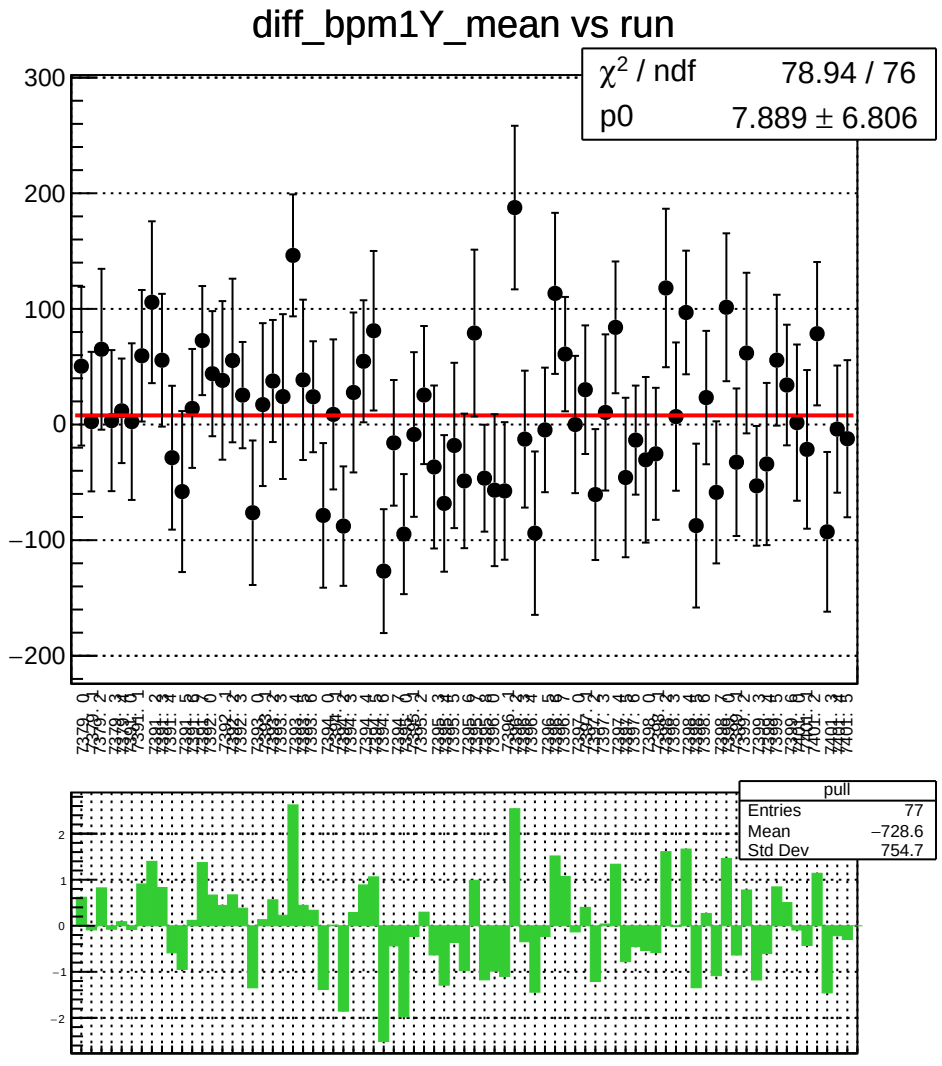

pull1D
Entries 77
Mean 0.01829
Std Dev 0.9811
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

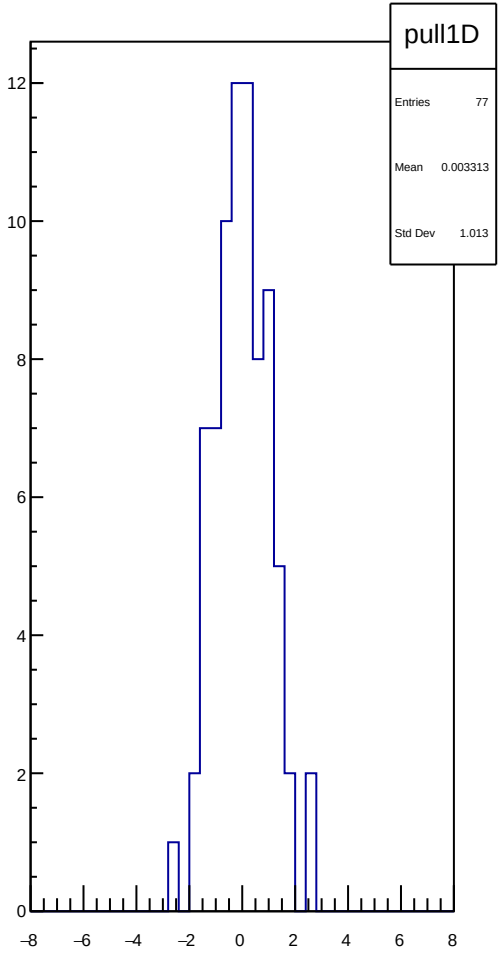

diff_bpm4ecY_rms vs run
χ^2 / ndf 6.699e+04 / 76
p0 6642 ± 5.538
22000
20000
18000
16000
14000
12000
10000
8000
6000

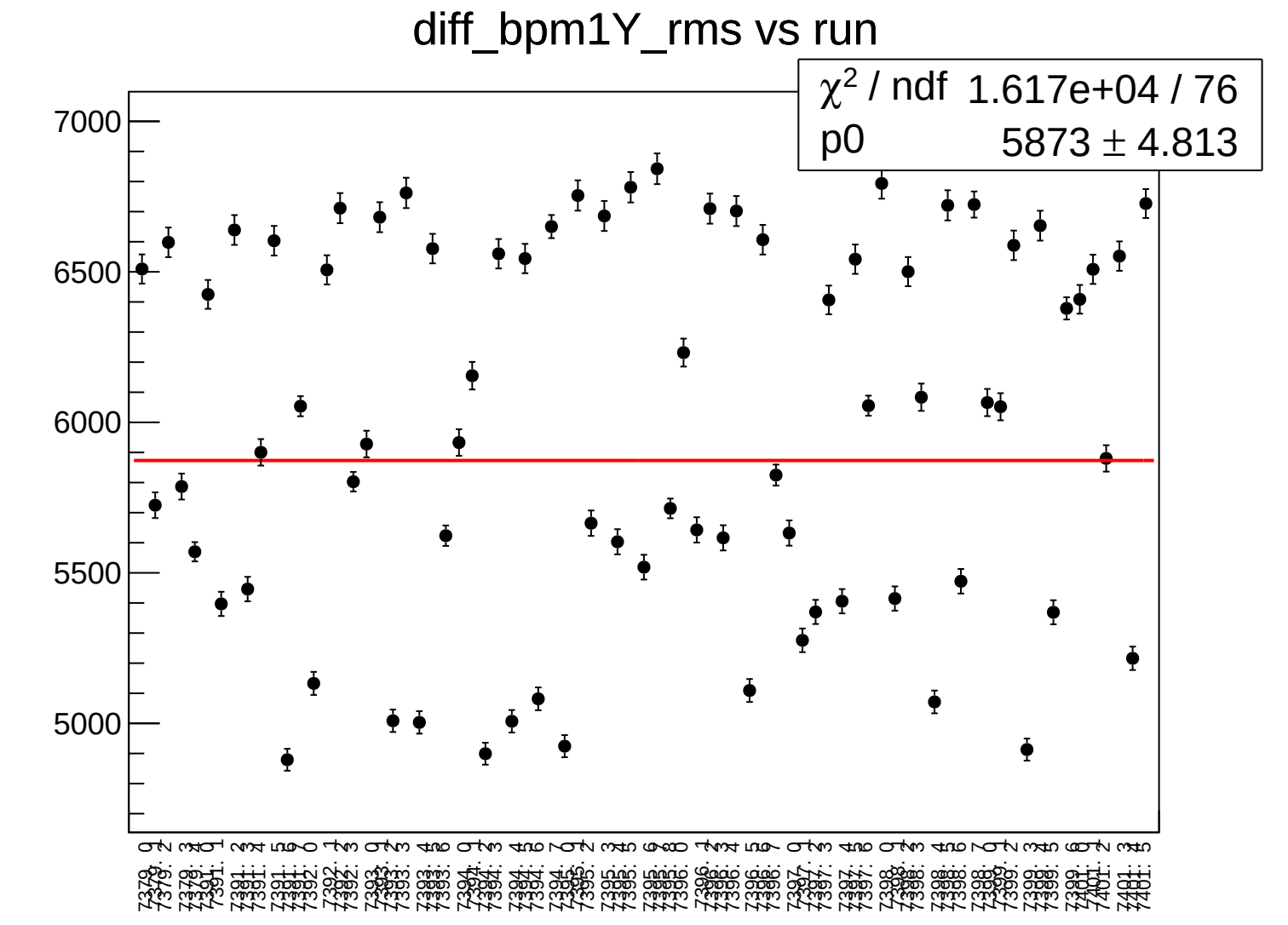

diff_bpm1X_mean vs run
χ² / ndf 81.02 / 76
p0 4.724 ± 9.296
pull
Entries 77
Mean −507.8
Std Dev 551.1

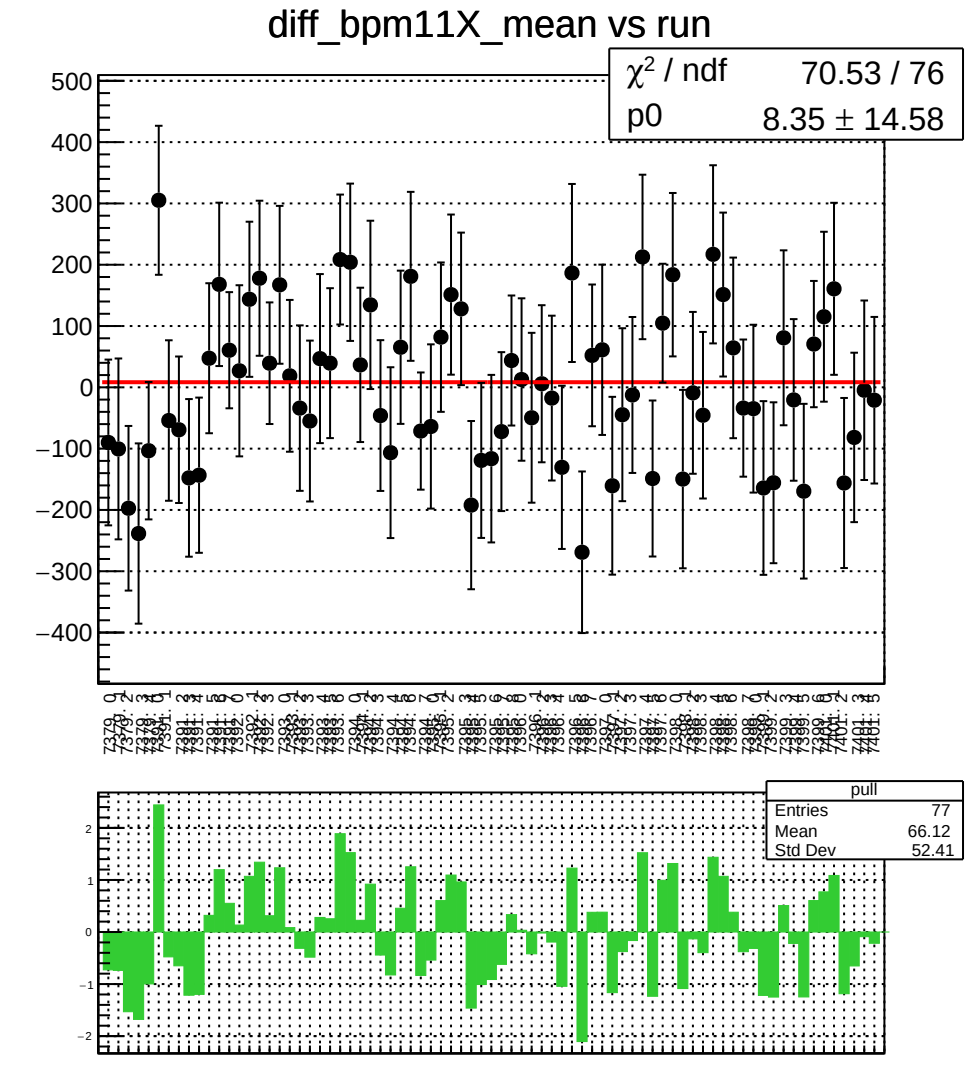

pull1D
Entries 77
Mean −0.009238
Std Dev 1.026

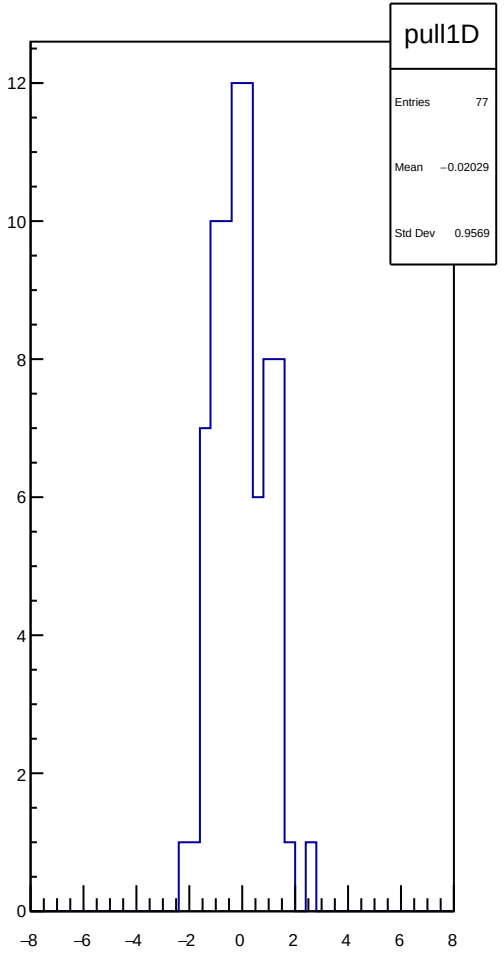

diff_bpm1X_rms vs run
χ^2 / ndf 1722 / 76
p0 8060 ± 6.573
8800
8600
8400
8200
8000
7800
7600
7400

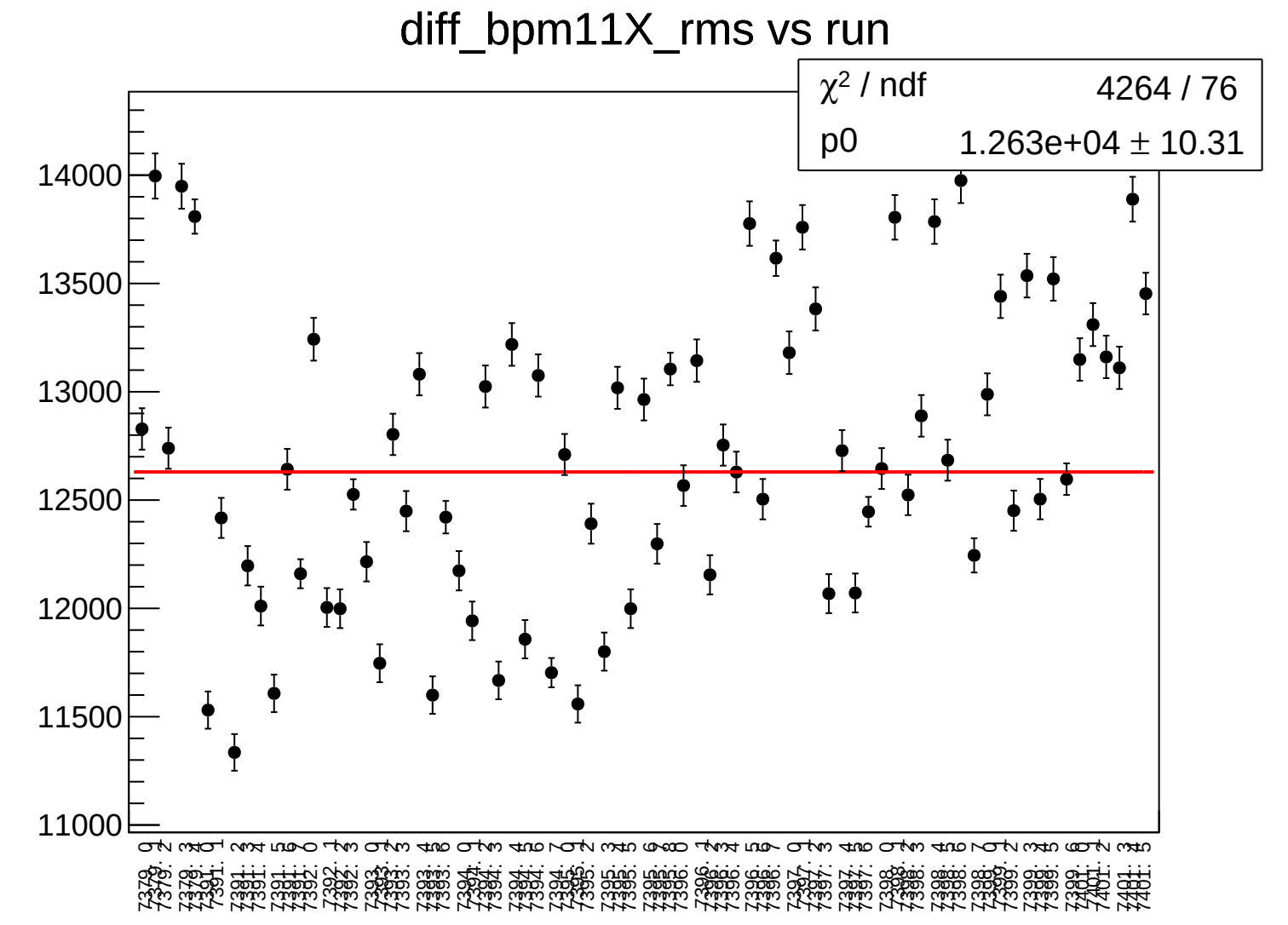

diff_bpm1Y_mean vs run
χ² / ndf 78.94 / 76
p0 7.889 ± 6.806
pull
Entries 77
Mean −728.6
Std Dev 754.7

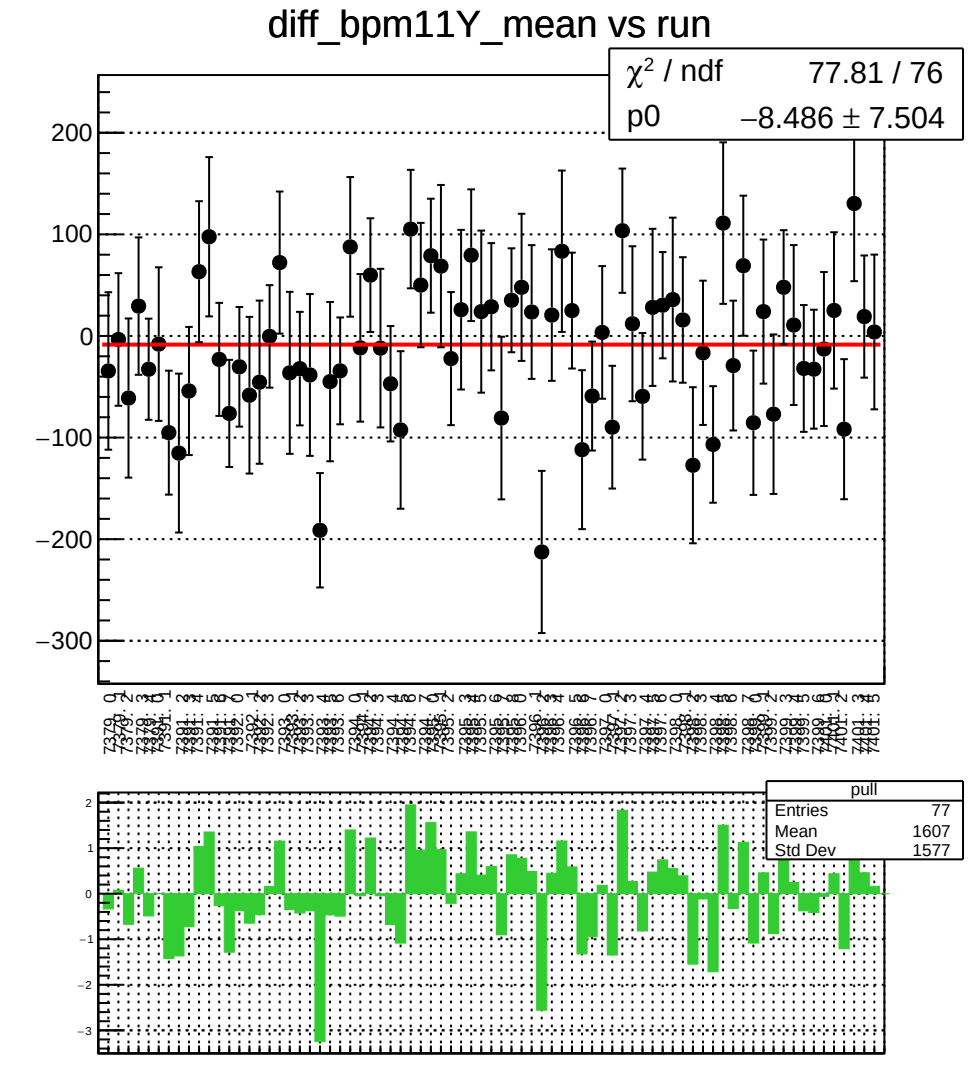

pull1D
Entries 77
Mean 0.003313
Std Dev 1.013

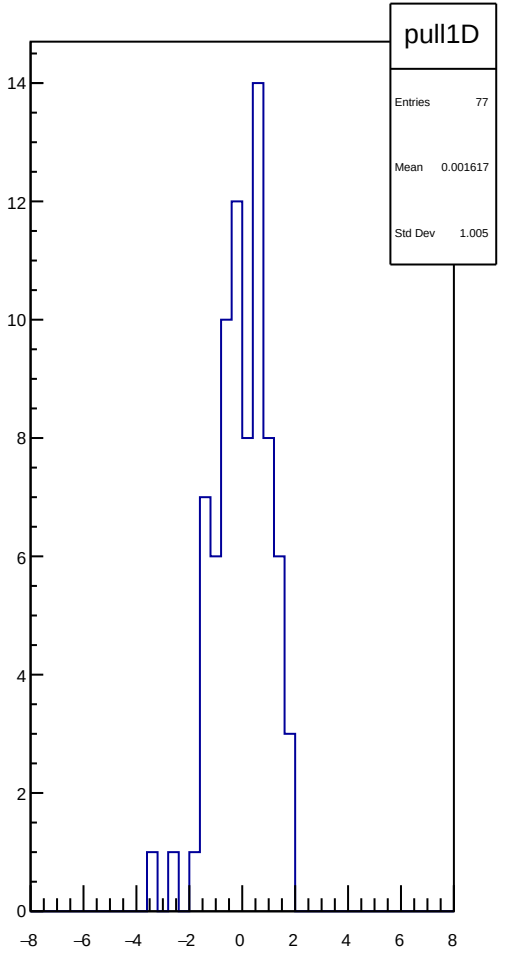

diff_bpm1Y_rms vs run
χ^2 / ndf 1.617e+04 / 76
p0 5873 ± 4.813
7000
6500
6000
5500
5000

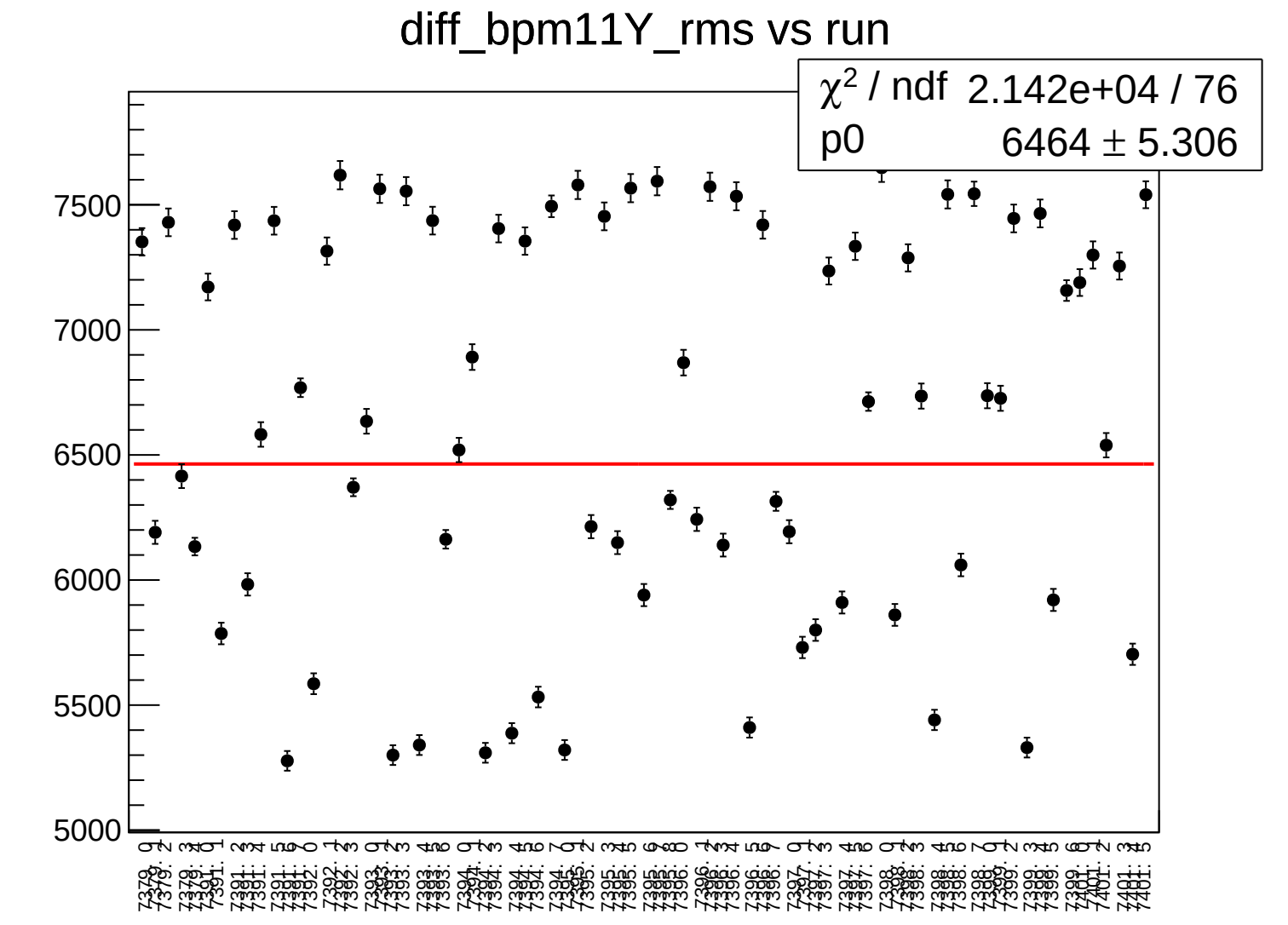

diff_bpm11X_mean vs run
χ² / ndf 70.53 / 76
p0 8.35 ± 14.58
pull
Entries 77
Mean 66.12
Std Dev 52.41

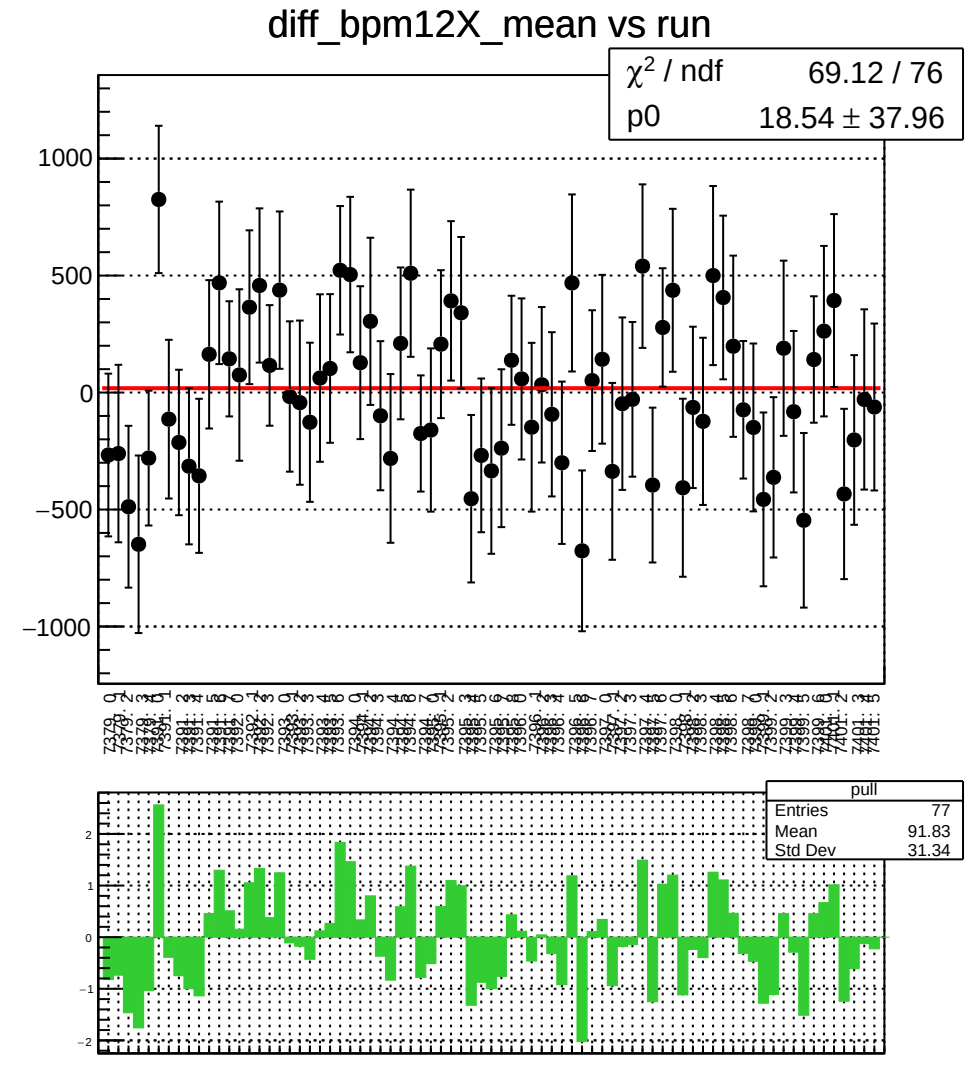

pull1D
Entries 77
Mean −0.02029
Std Dev 0.9569

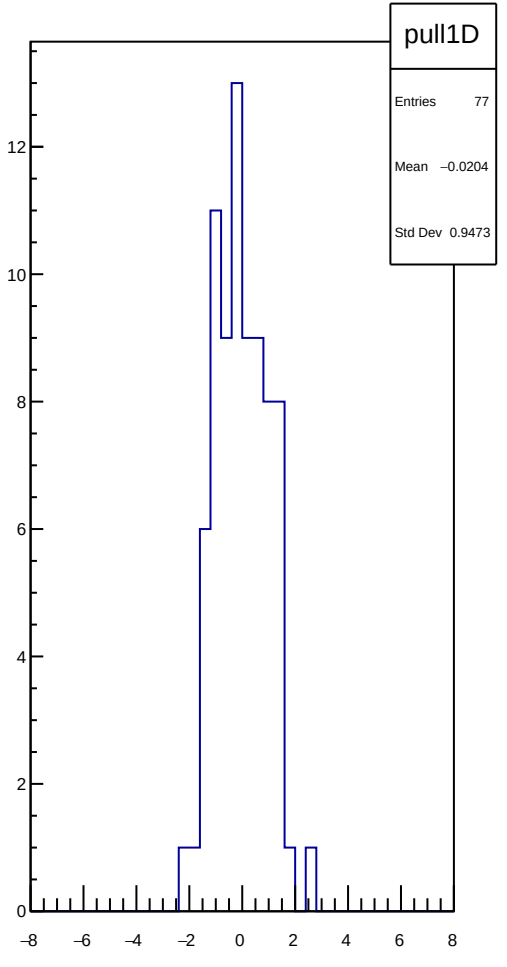

diff_bpm11X_rms vs run
χ² / ndf 4264 / 76
p0 1.263e+04 ± 10.31
14000
13500
13000
12500
12000
11500
11000

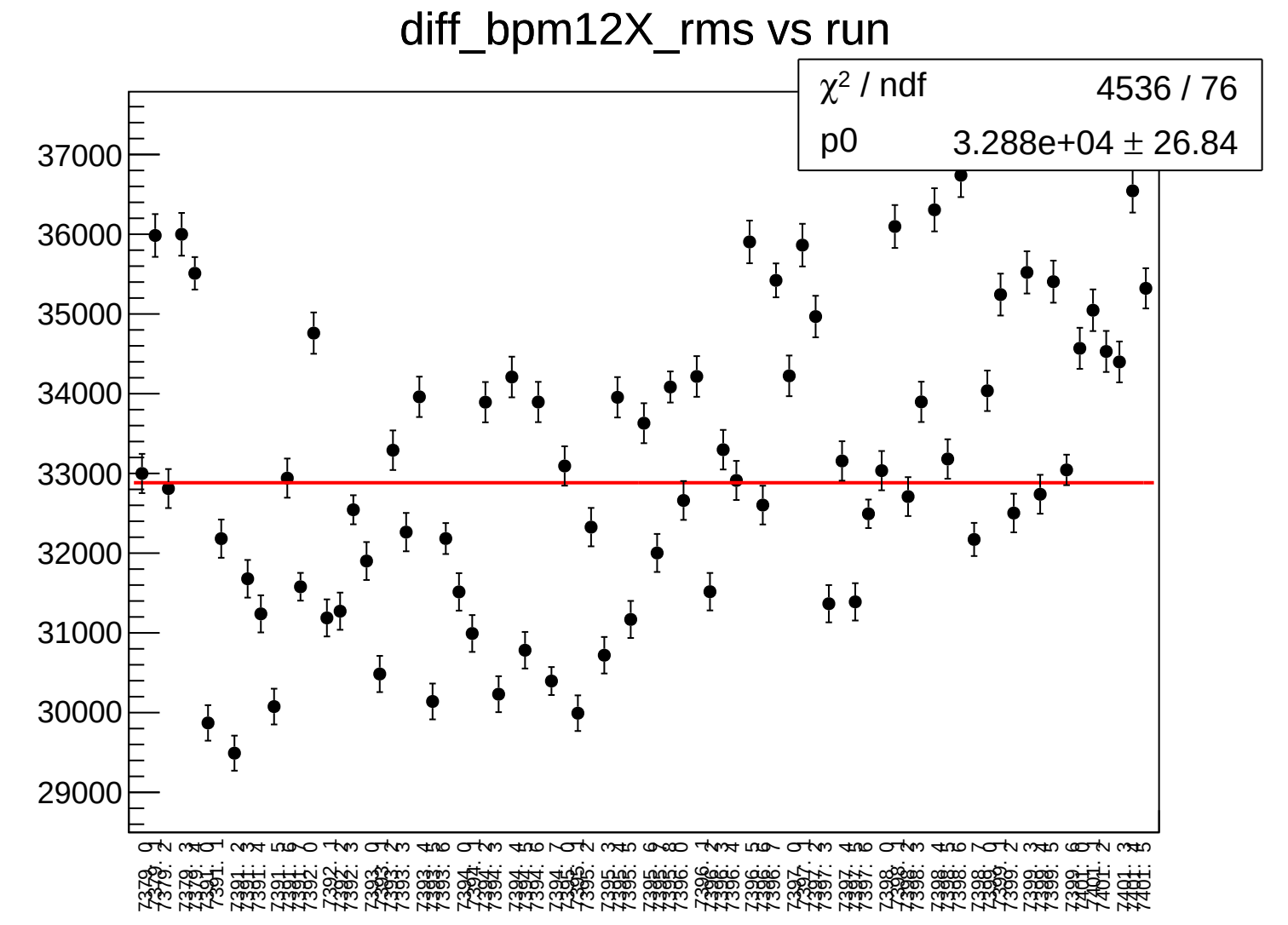

diff_bpm11Y_mean vs run
χ² / ndf 77.81 / 76
p0 −8.486 ± 7.504
200
100
0
−100
−200
−300
pull
Entries 77
Mean 1607
Std Dev 1577
2
1
0
−1
−2
−3

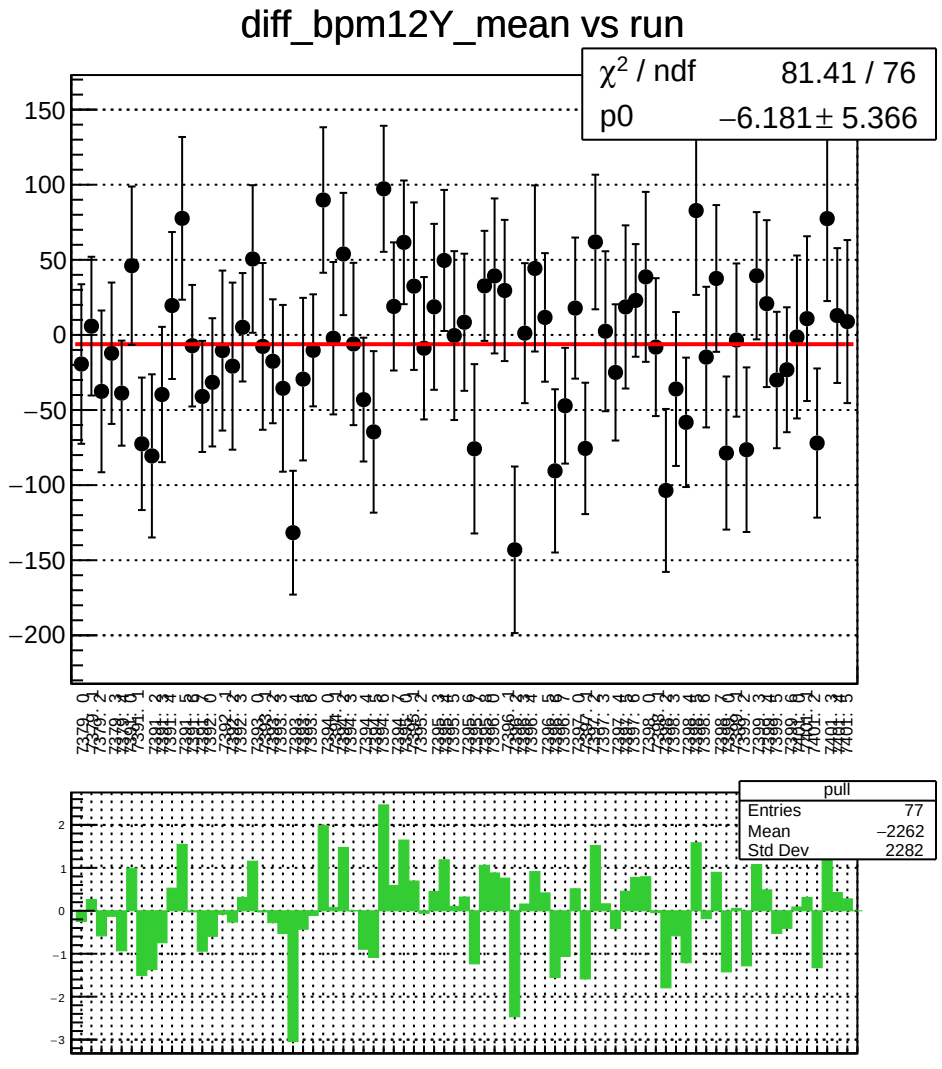

pull1D
Entries 77
Mean 0.001617
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

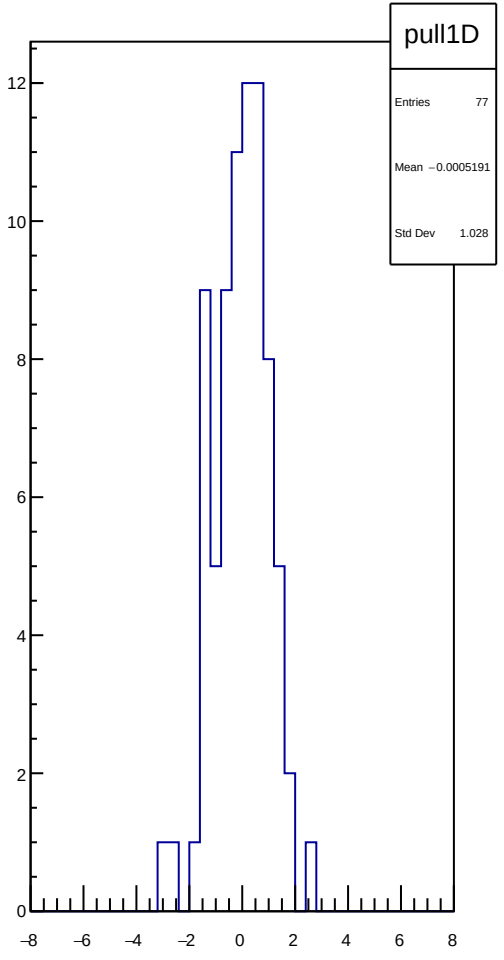

diff_bpm11Y_rms vs run
χ² / ndf 2.142e+04 / 76
p0 6464 ± 5.306
7500
7000
6500
6000
5500
5000

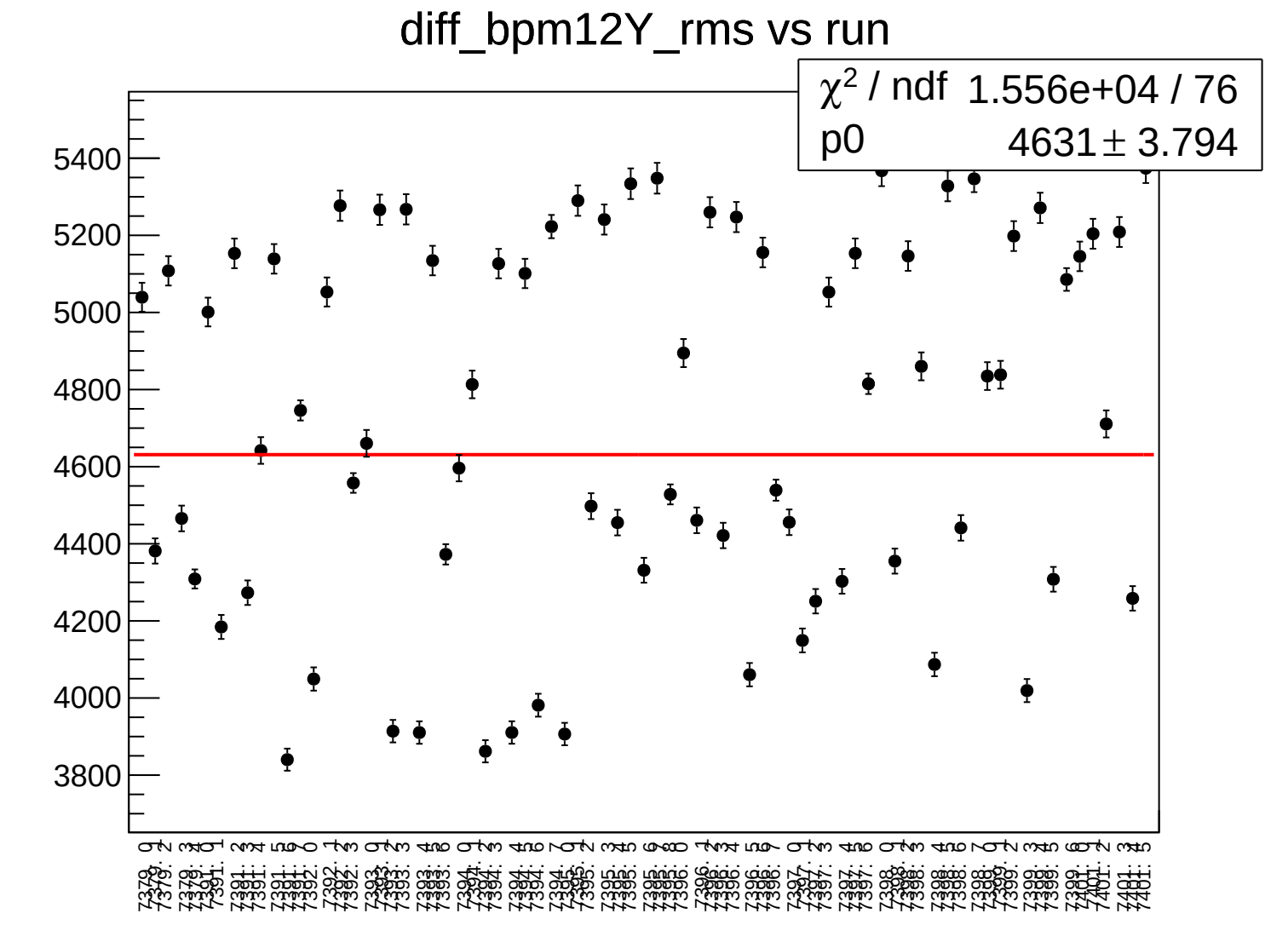

diff_bpm12X_mean vs run
χ^2 / ndf 69.12 / 76
p0 18.54 ± 37.96
1000
500
0
−500
−1000
pull
Entries 77
Mean 91.83
Std Dev 31.34
2
1
0
−1
−2

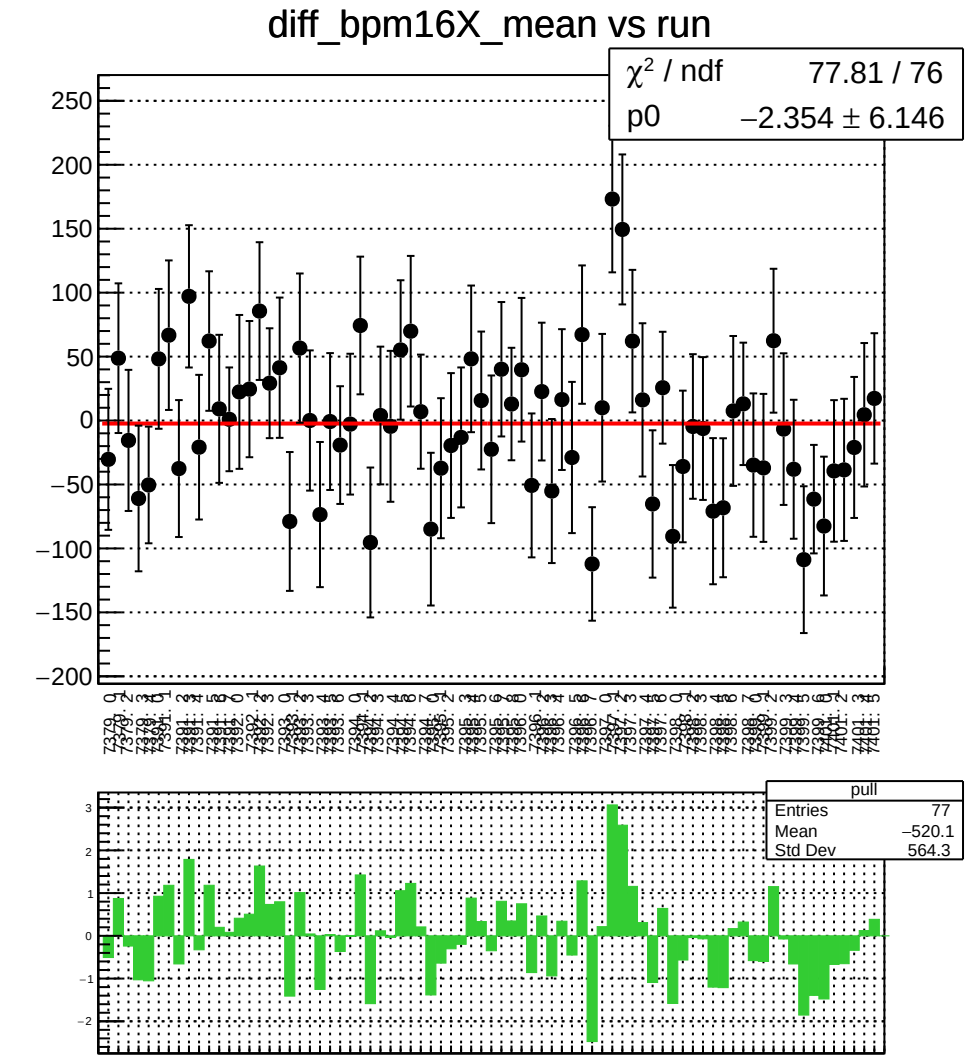

pull1D
Entries 77
Mean −0.0204
Std Dev 0.9473
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

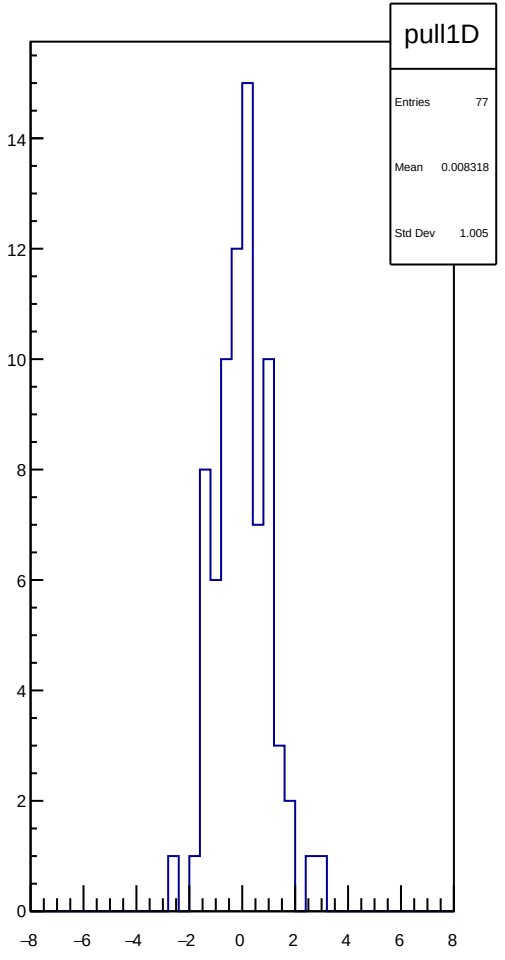

diff_bpm12X_rms vs run
χ² / ndf 4536 / 76
p0 3.288e+04 ± 26.84
37000
36000
35000
34000
33000
32000
31000
30000
29000

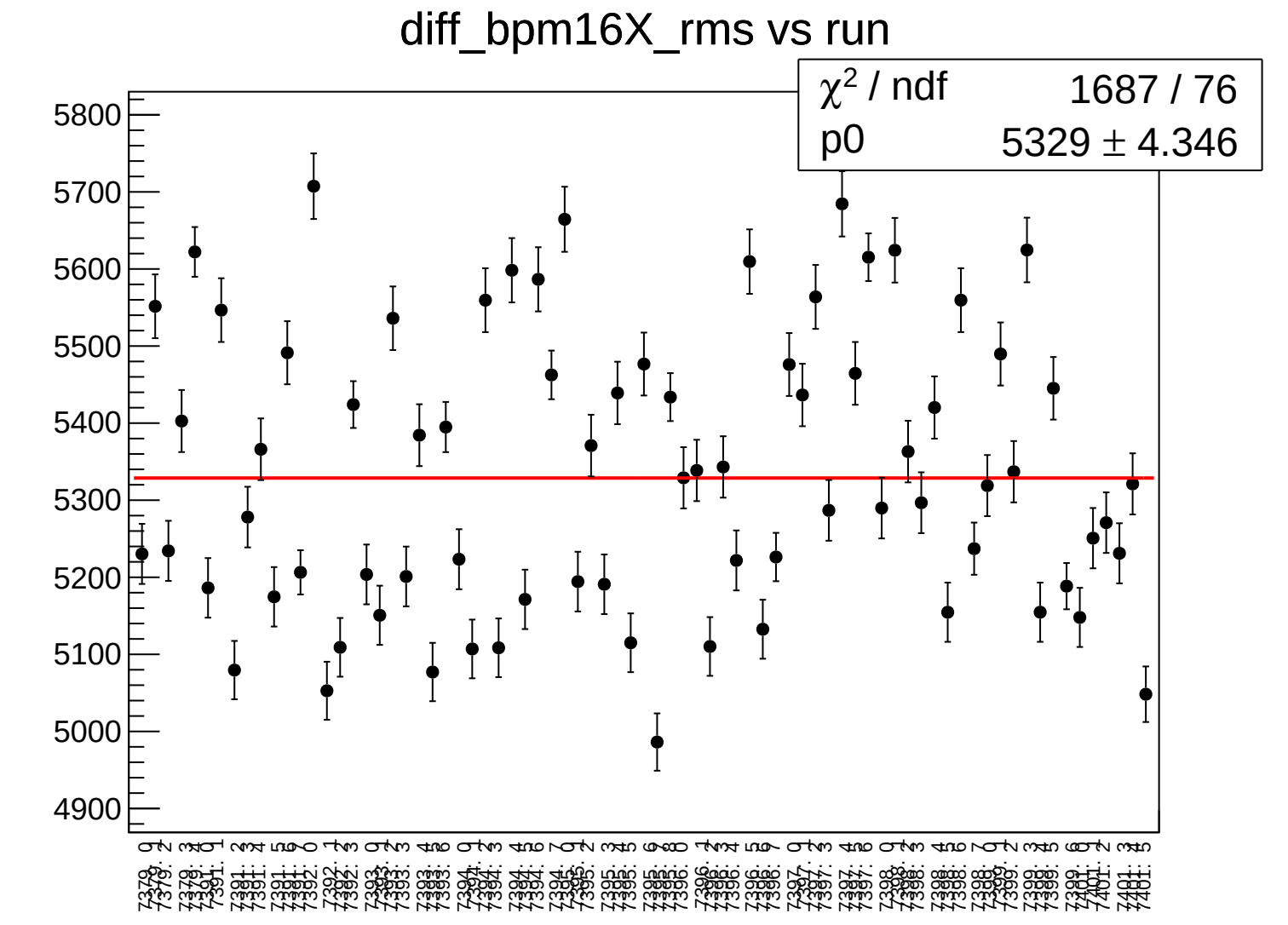

diff_bpm12Y_mean vs run
χ² / ndf 81.41 / 76
p0 −6.181 ± 5.366
pull
Entries 77
Mean −2262
Std Dev 2282

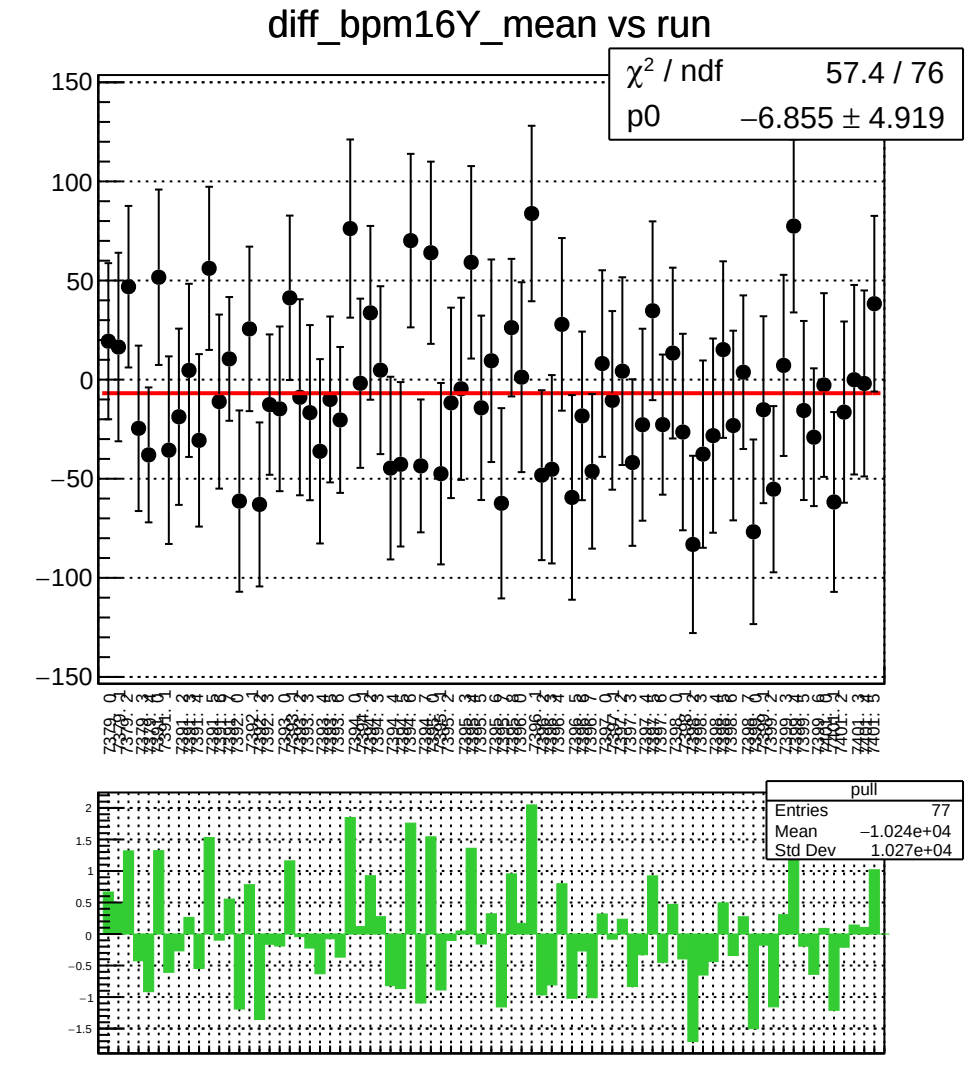

pull1D
Entries 77
Mean −0.0005191
Std Dev 1.028

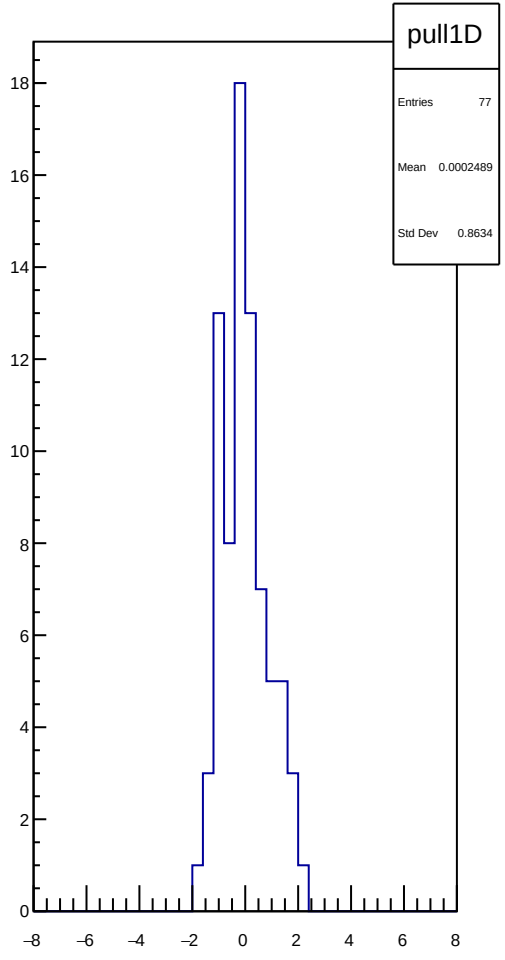

diff_bpm12Y_rms vs run
χ^2 / ndf 1.556e+04 / 76
p0 4631 ± 3.794
5400
5200
5000
4800
4600
4400
4200
4000
3800

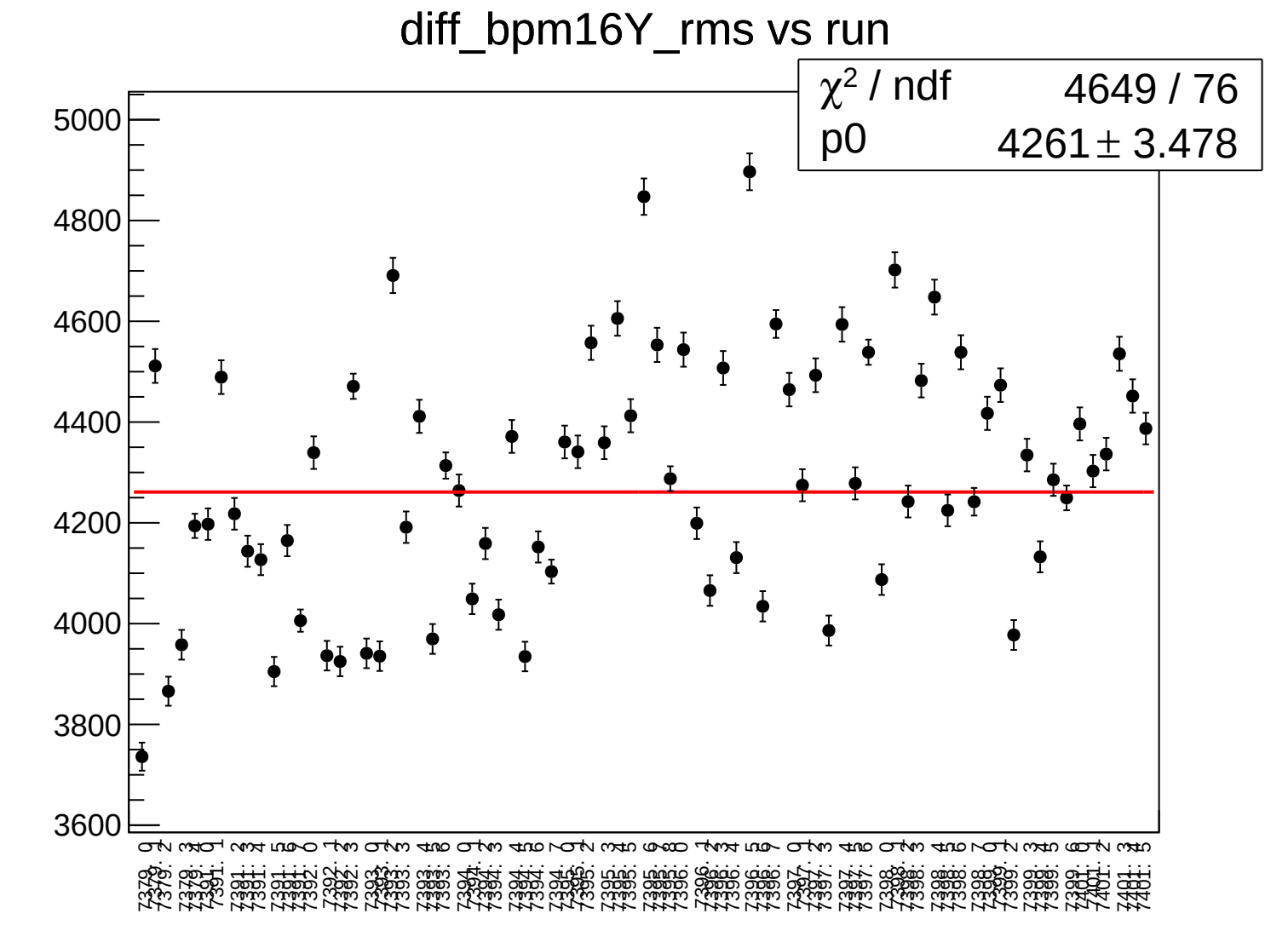

diff_bpm16X_mean vs run
χ² / ndf 77.81 / 76
p0 −2.354 ± 6.146
pull
Entries 77
Mean −520.1
Std Dev 564.3

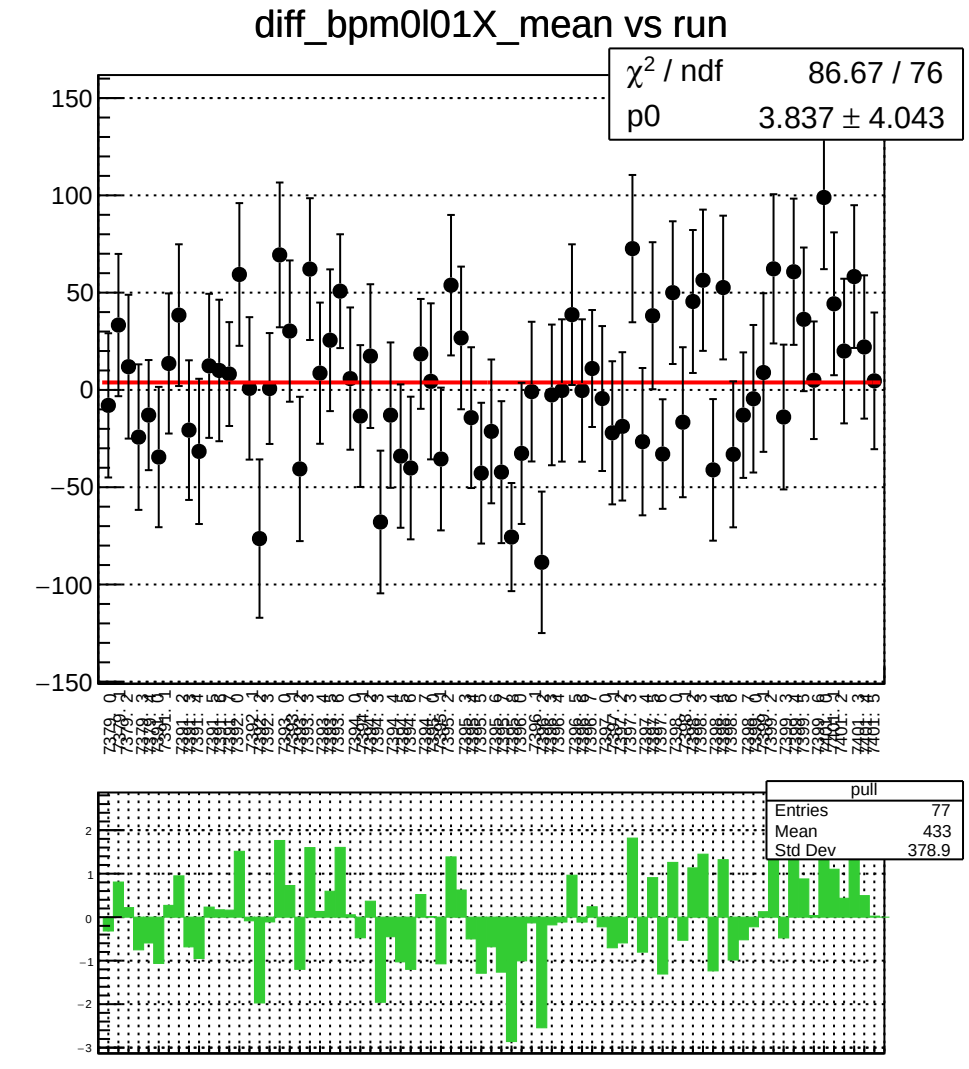

pull1D
Entries 77
Mean 0.008318
Std Dev 1.005

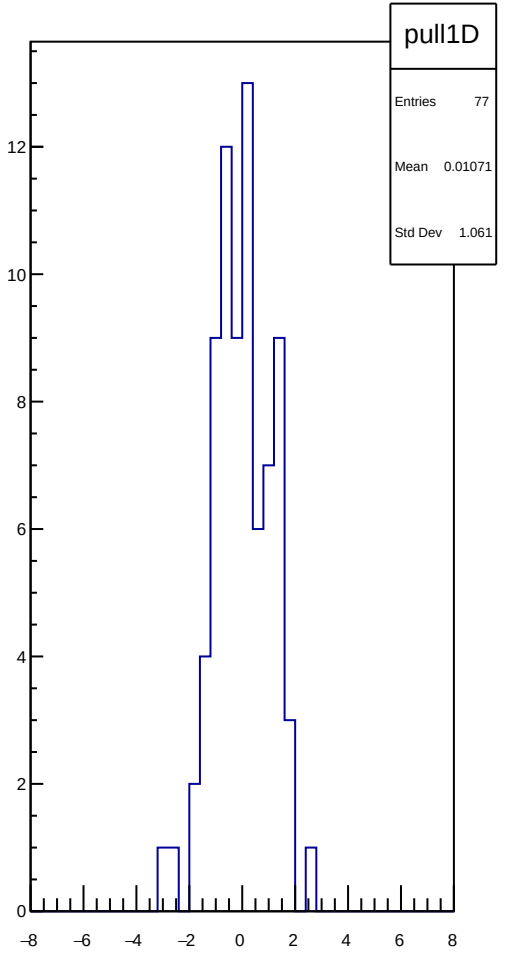

diff_bpm16X_rms vs run
χ^2 / ndf 1687 / 76
p0 5329 ± 4.346
5800
5700
5600
5500
5400
5300
5200
5100
5000
4900

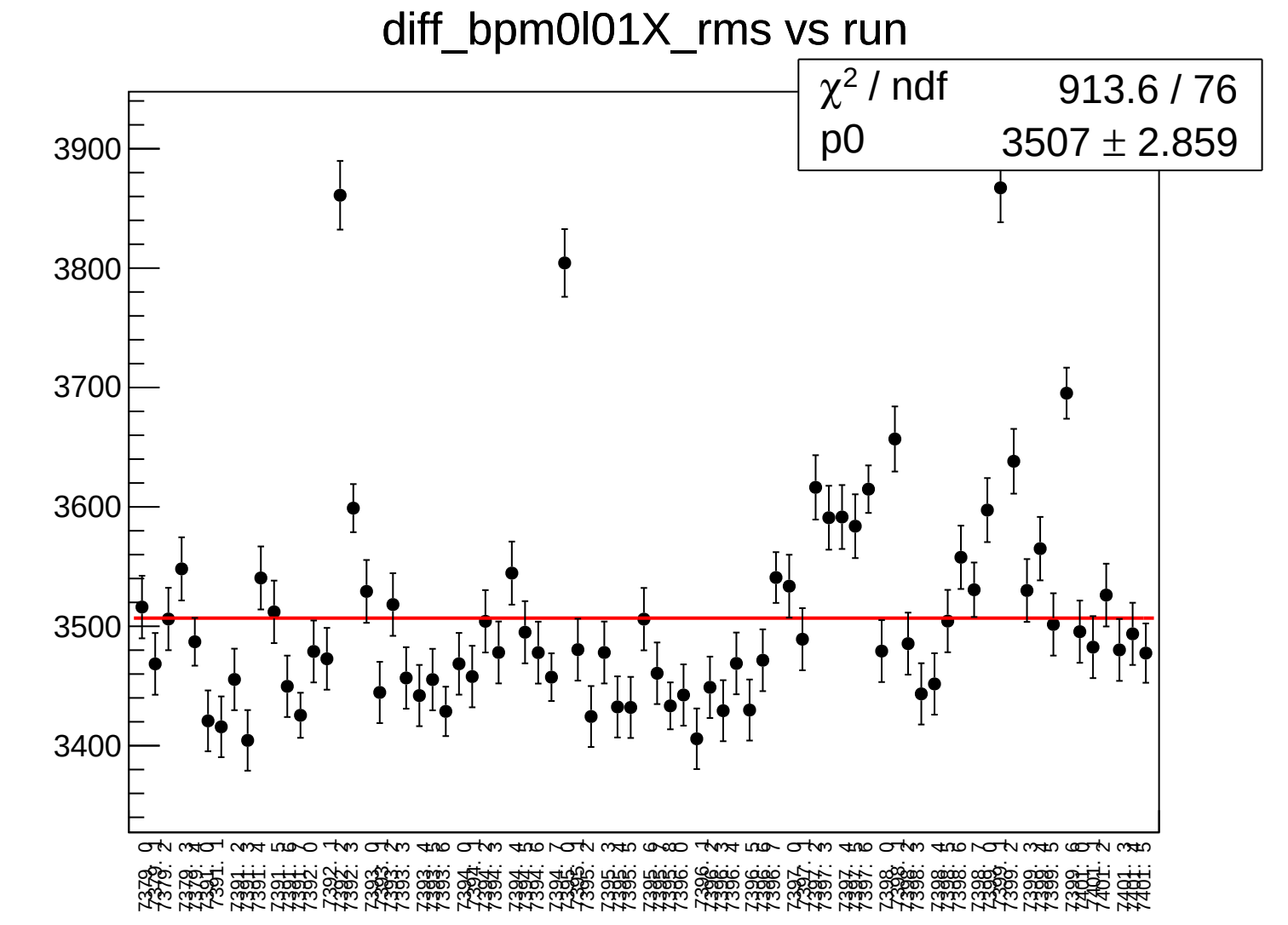

diff_bpm16Y_mean vs run
χ² / ndf 57.4 / 76
p0 −6.855 ± 4.919
pull
Entries 77
Mean −1.024e+04
Std Dev 1.027e+04

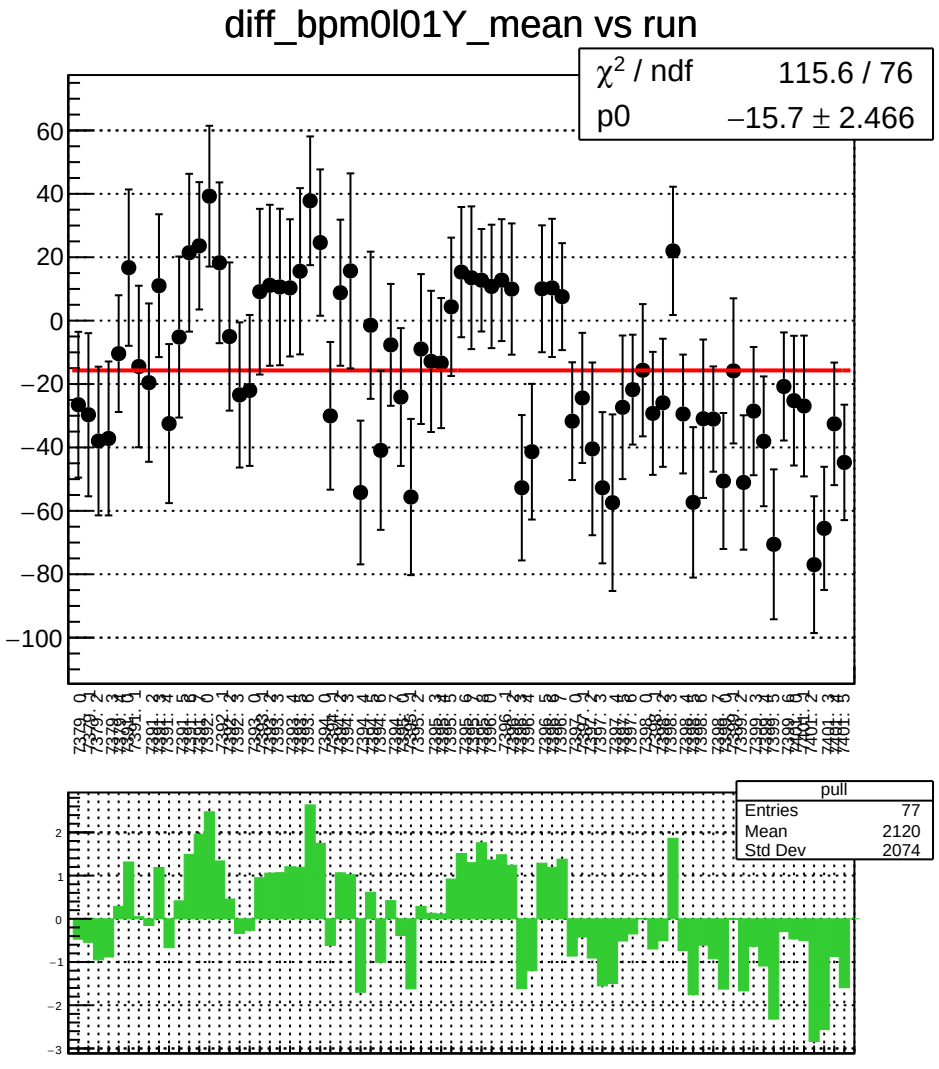

pull1D
Entries 77
Mean 0.0002489
Std Dev 0.8634

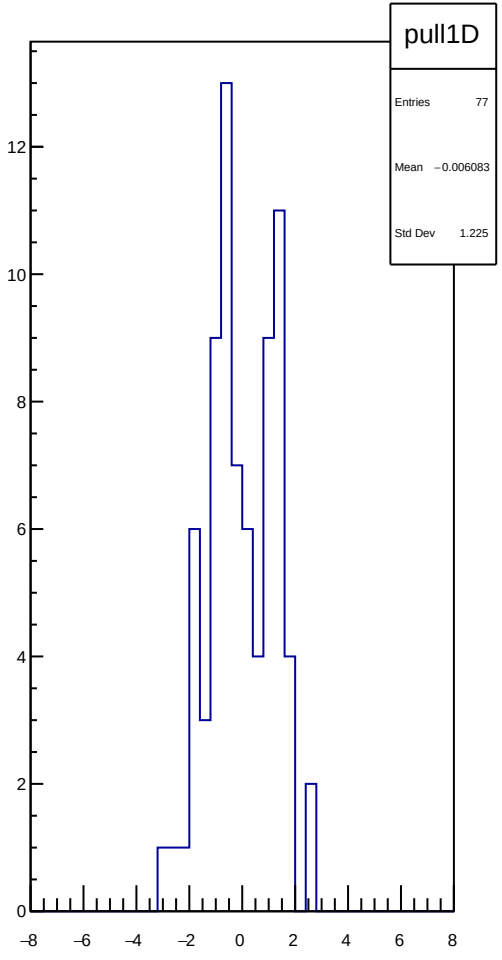

diff_bpm16Y_rms vs run
χ² / ndf 4649 / 76
p0 4261 ± 3.478
5000
4800
4600
4400
4200
4000
3800
3600

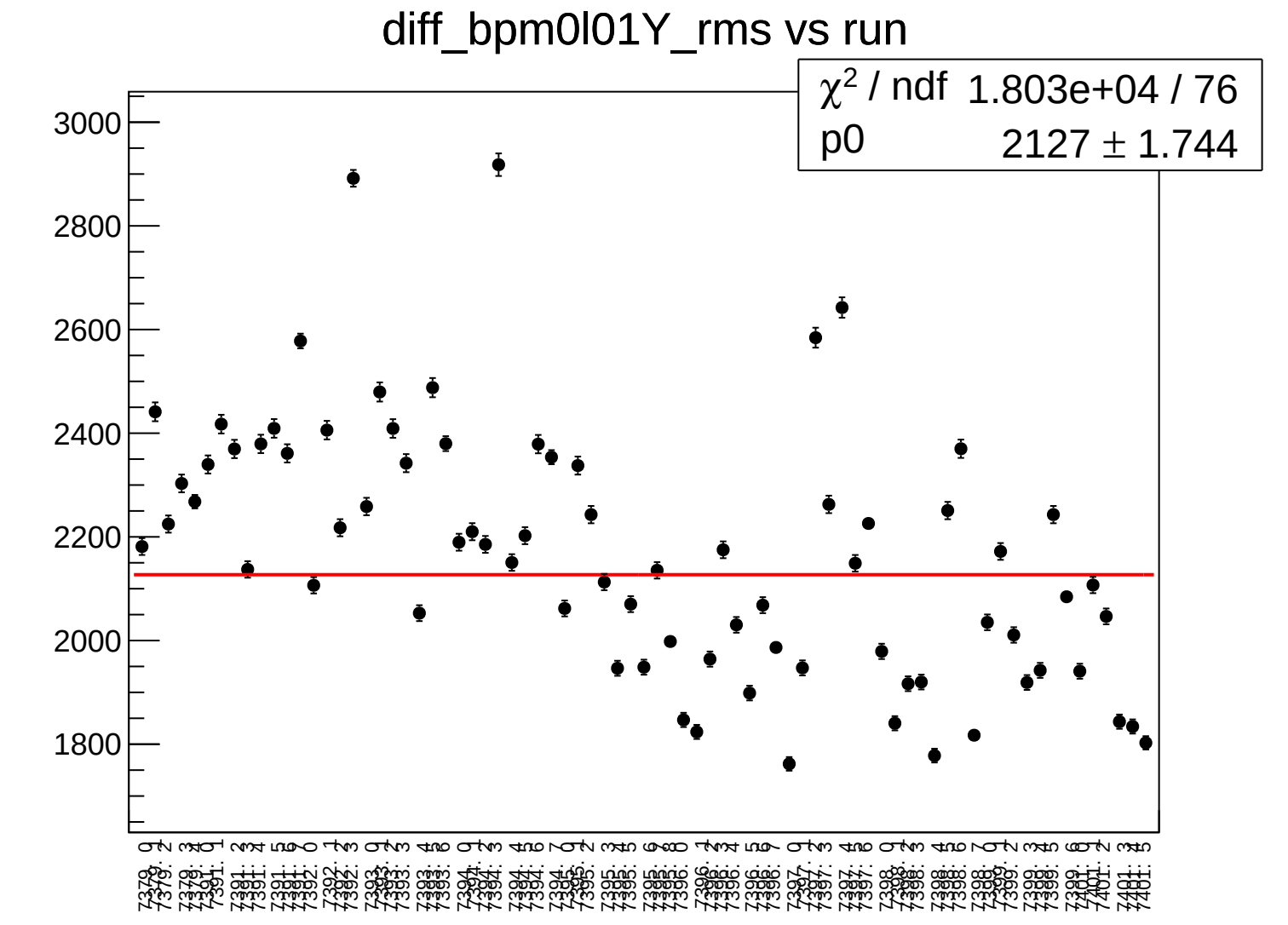

diff_bpm0l01X_mean vs run
χ² / ndf 86.67 / 76
p0 3.837 ± 4.043
pull
Entries 77
Mean 433
Std Dev 378.9

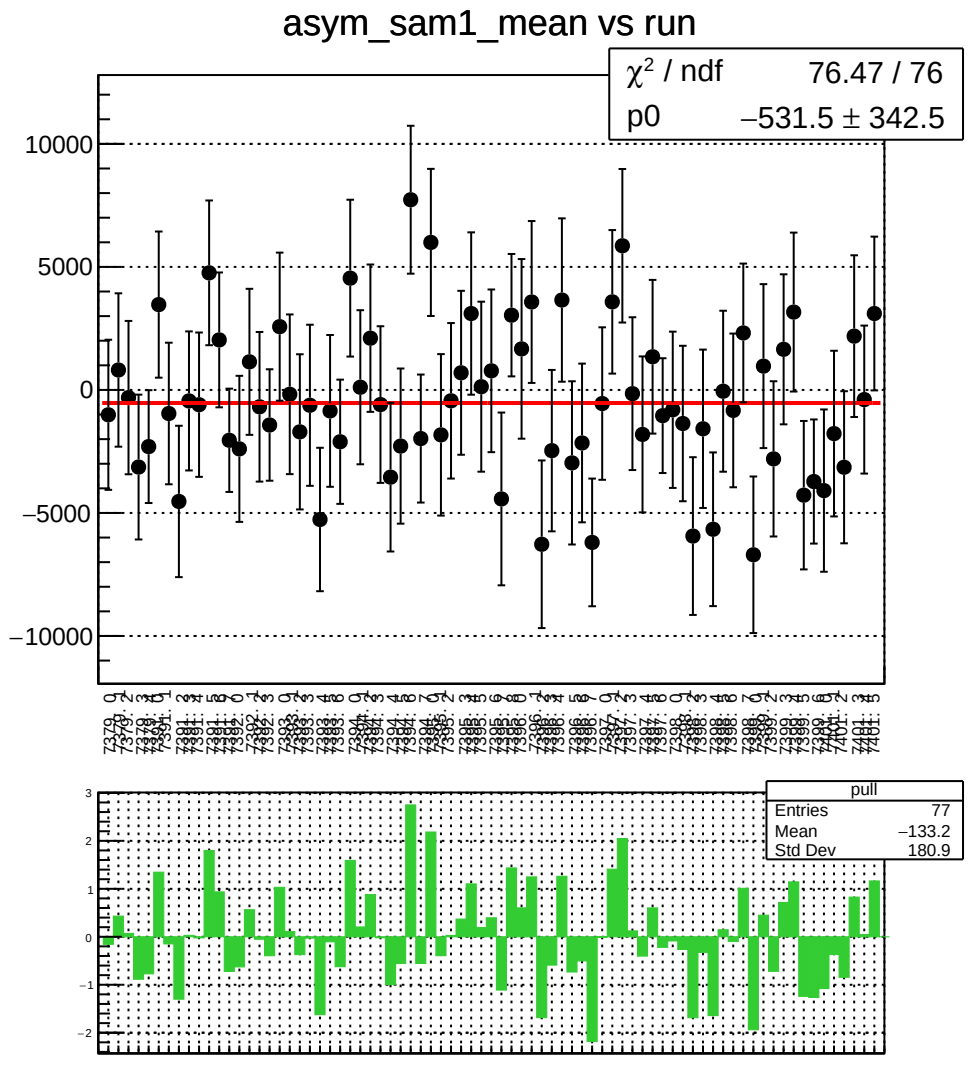

pull1D
Entries 77
Mean 0.01071
Std Dev 1.061

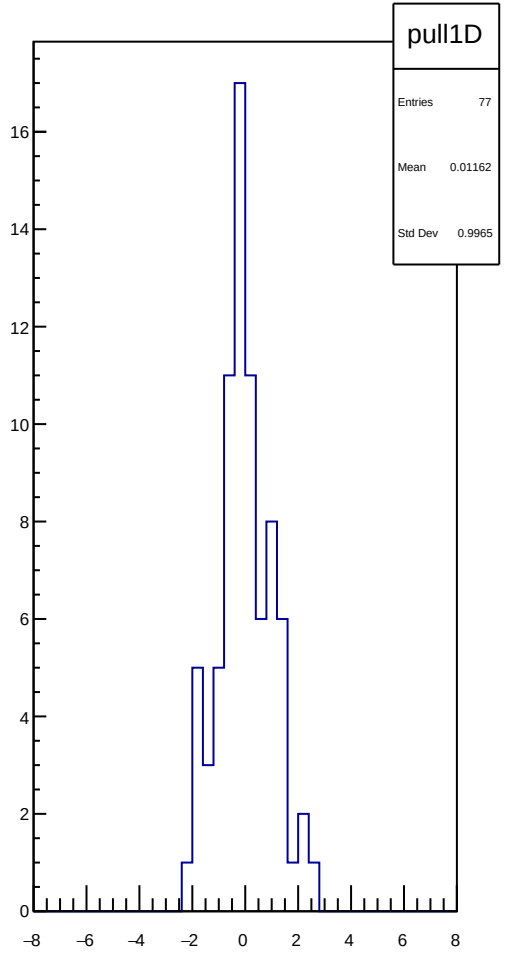

diff_bpm0l01X_rms vs run
χ² / ndf 913.6 / 76
p0 3507 ± 2.859
3900
3800
3700
3600
3500
3400

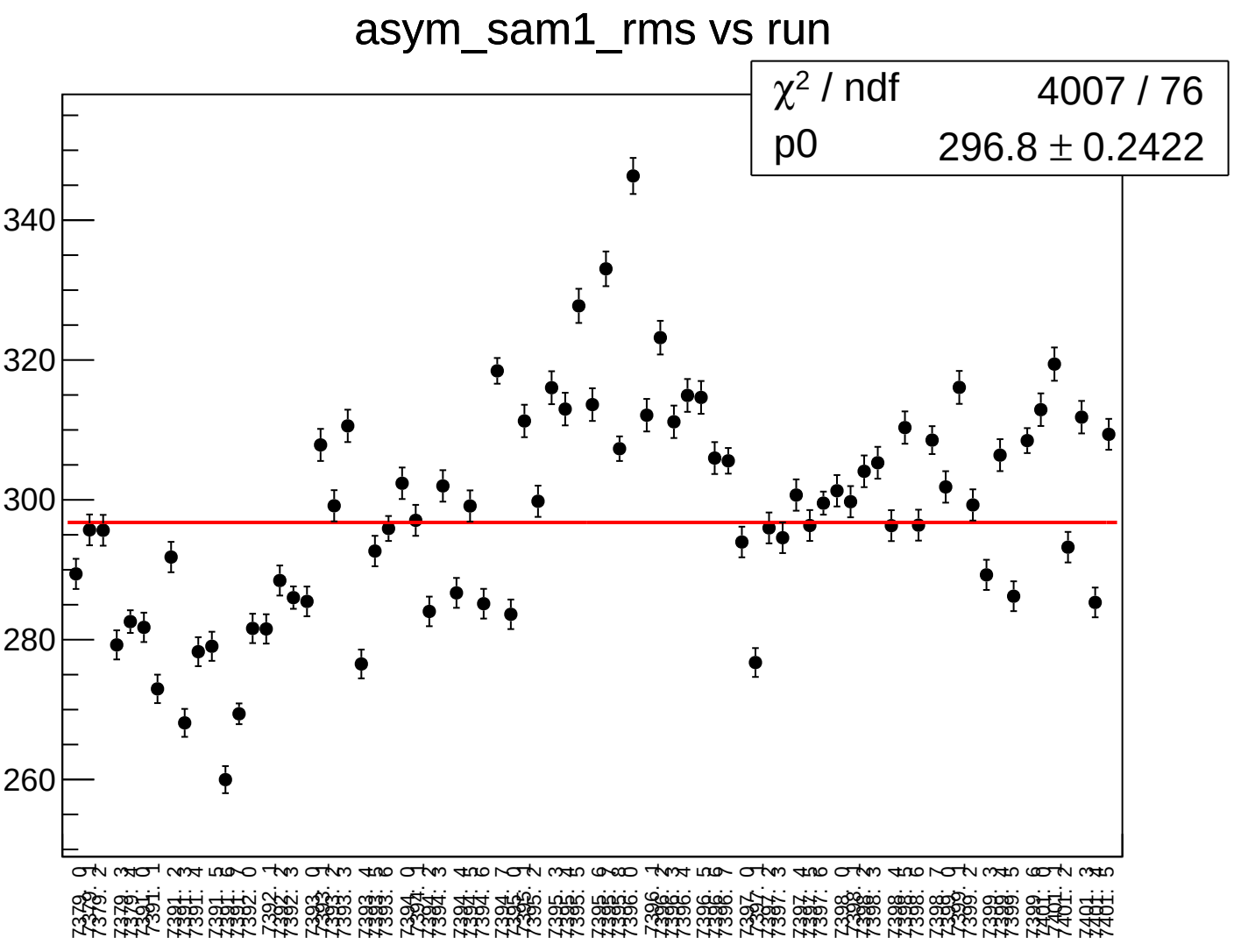

diff_bpm0l01Y_mean vs run
χ² / ndf 115.6 / 76
p0 −15.7 ± 2.466
pull
Entries 77
Mean 2120
Std Dev 2074

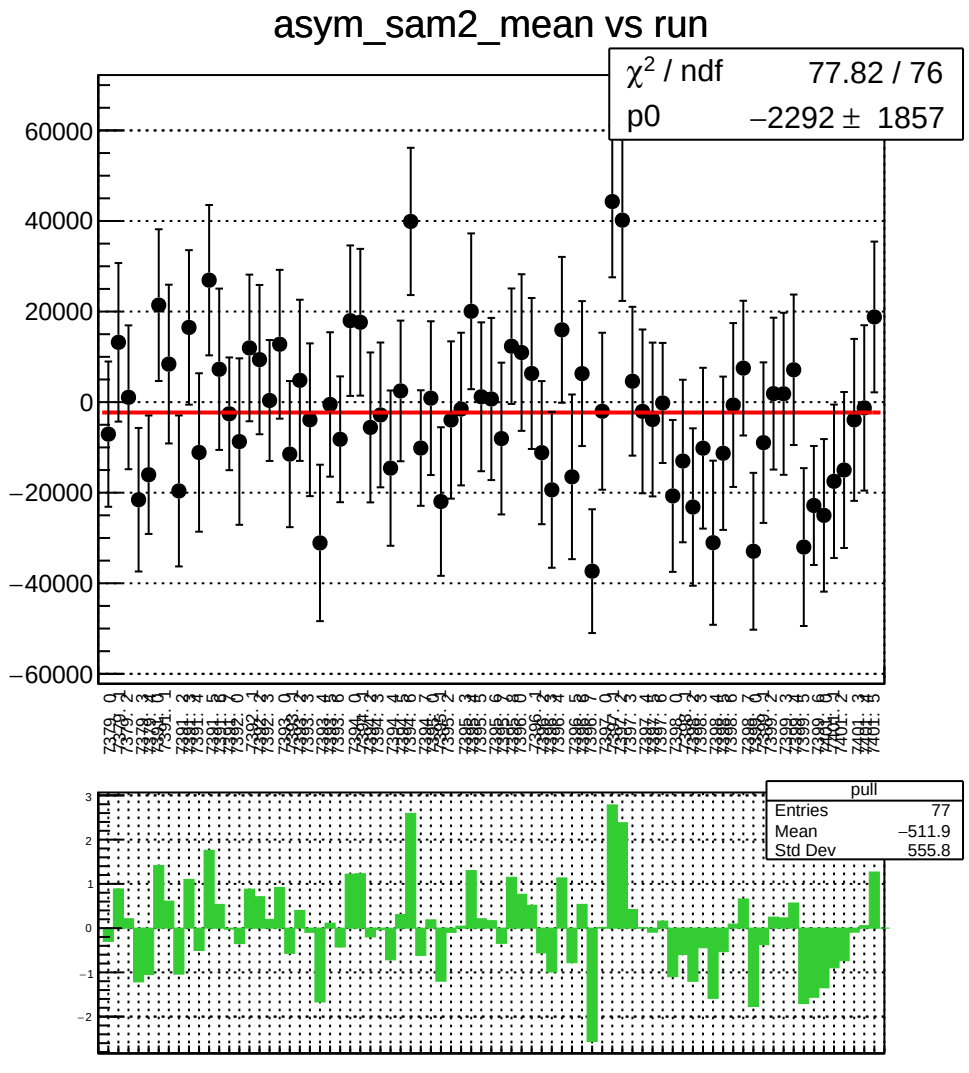

pull1D
Entries 77
Mean −0.006083
Std Dev 1.225

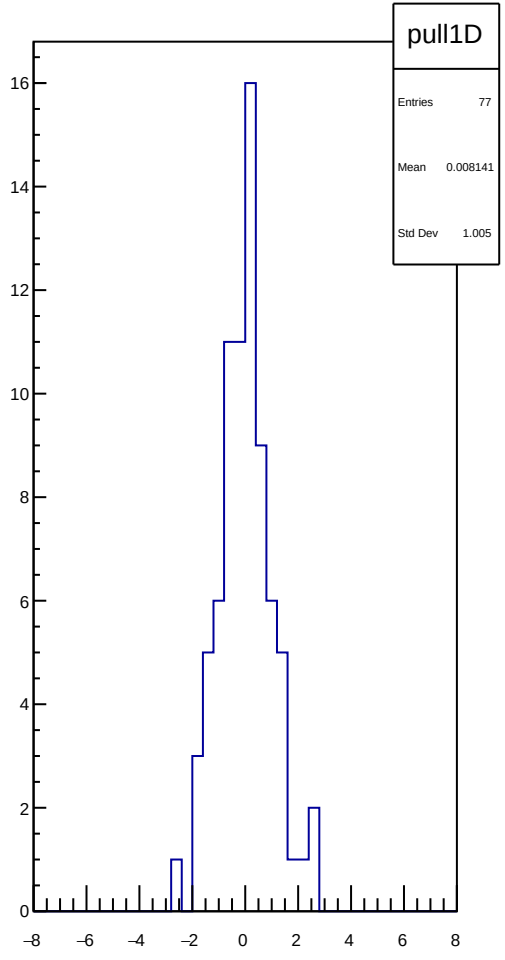

diff_bpm0l01Y_rms vs run
χ² / ndf 1.803e+04 / 76
p0 2127 ± 1.744
3000
2800
2600
2400
2200
2000
1800

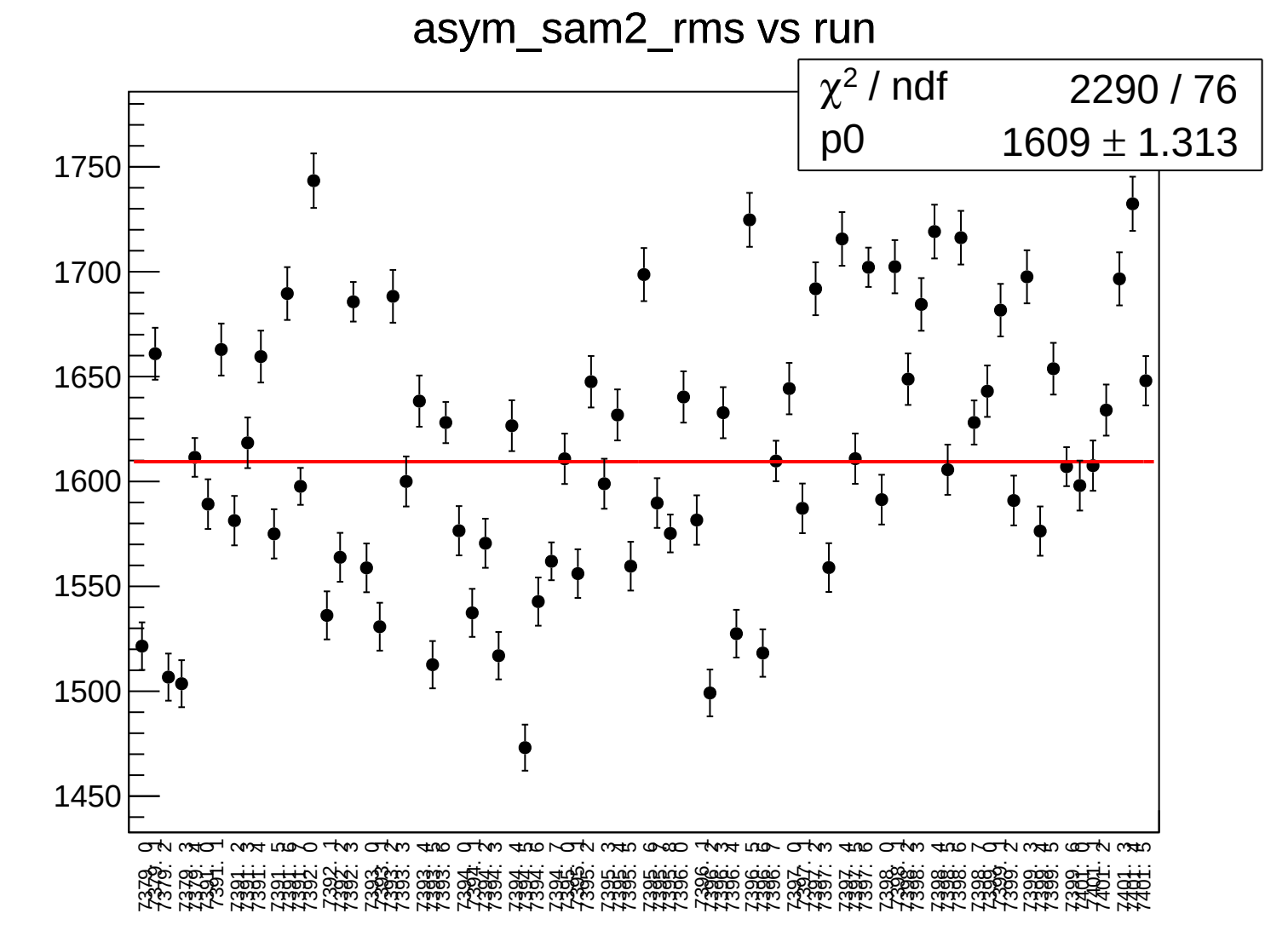

asym_sam1_mean vs run
χ² / ndf 76.47 / 76
p0 −531.5 ± 342.5
10000
5000
0
−5000
−10000
pull
Entries 77
Mean −133.2
Std Dev 180.9
3
2
1
0
−1
−2

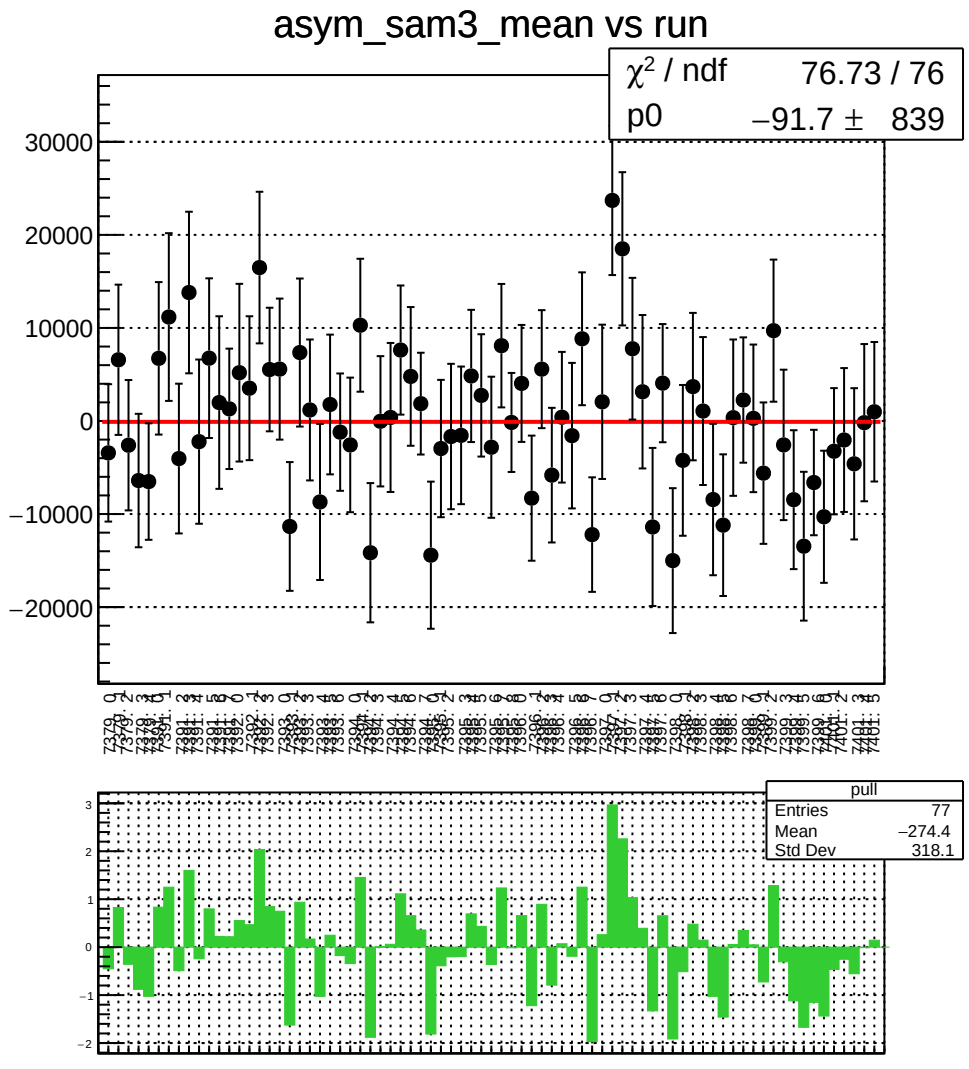

pull1D
Entries 77
Mean 0.01162
Std Dev 0.9965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

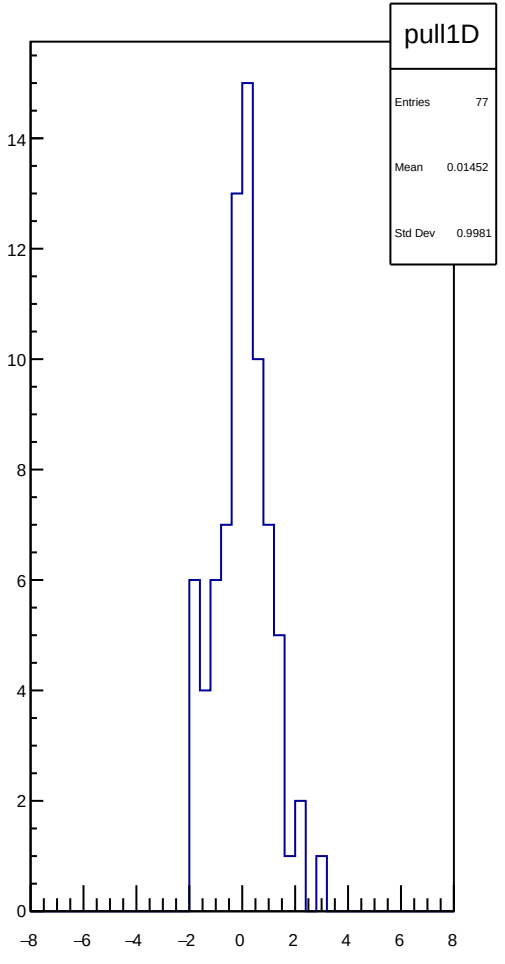

asym_sam1_rms vs run
χ^2 / ndf 4007 / 76
p0 296.8 ± 0.2422
340
320
300
280
260

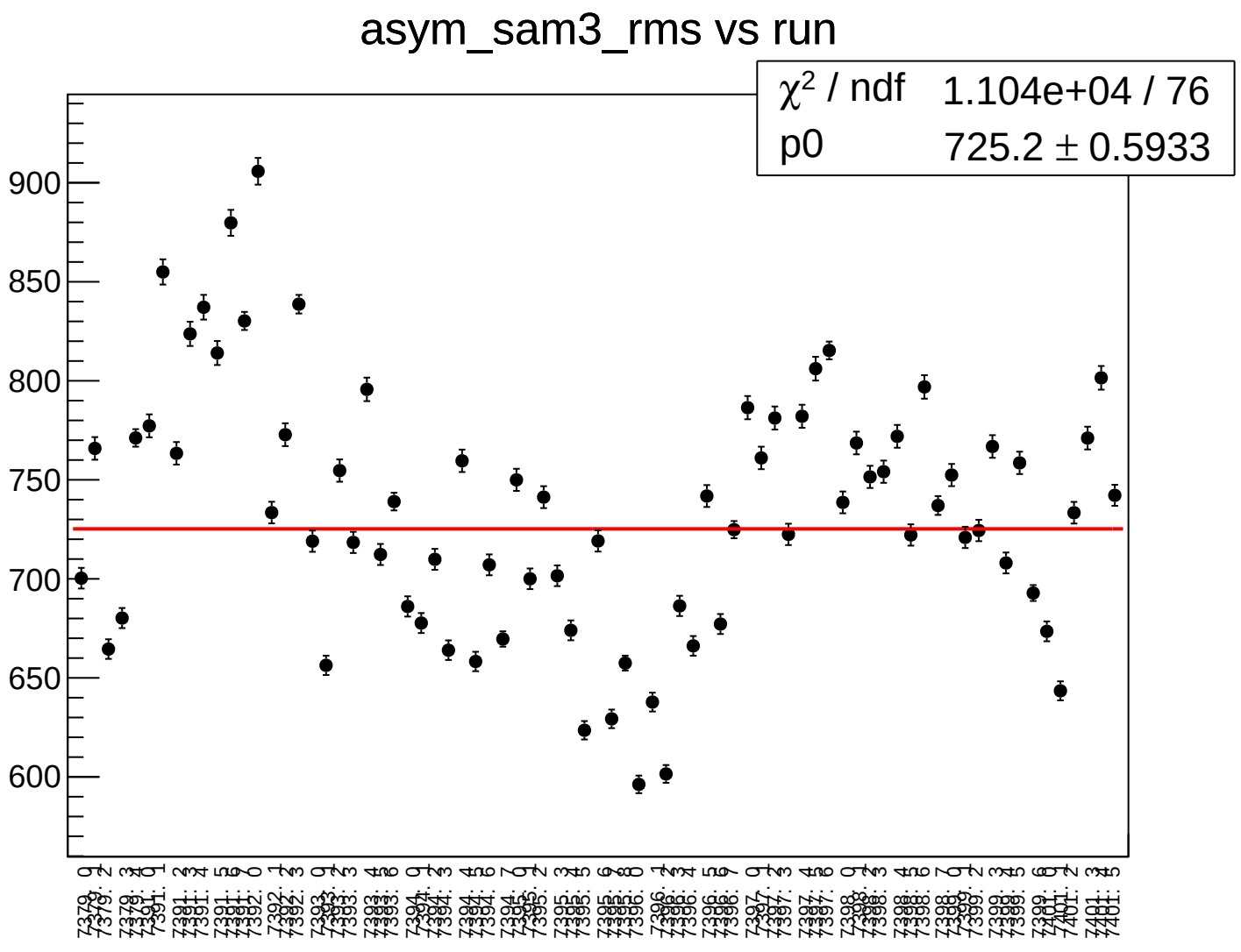

asym_sam2_mean vs run
χ² / ndf 77.82 / 76
p0 −2292 ± 1857
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 77
Mean −511.9
Std Dev 555.8
3
2
1
0
−1
−2

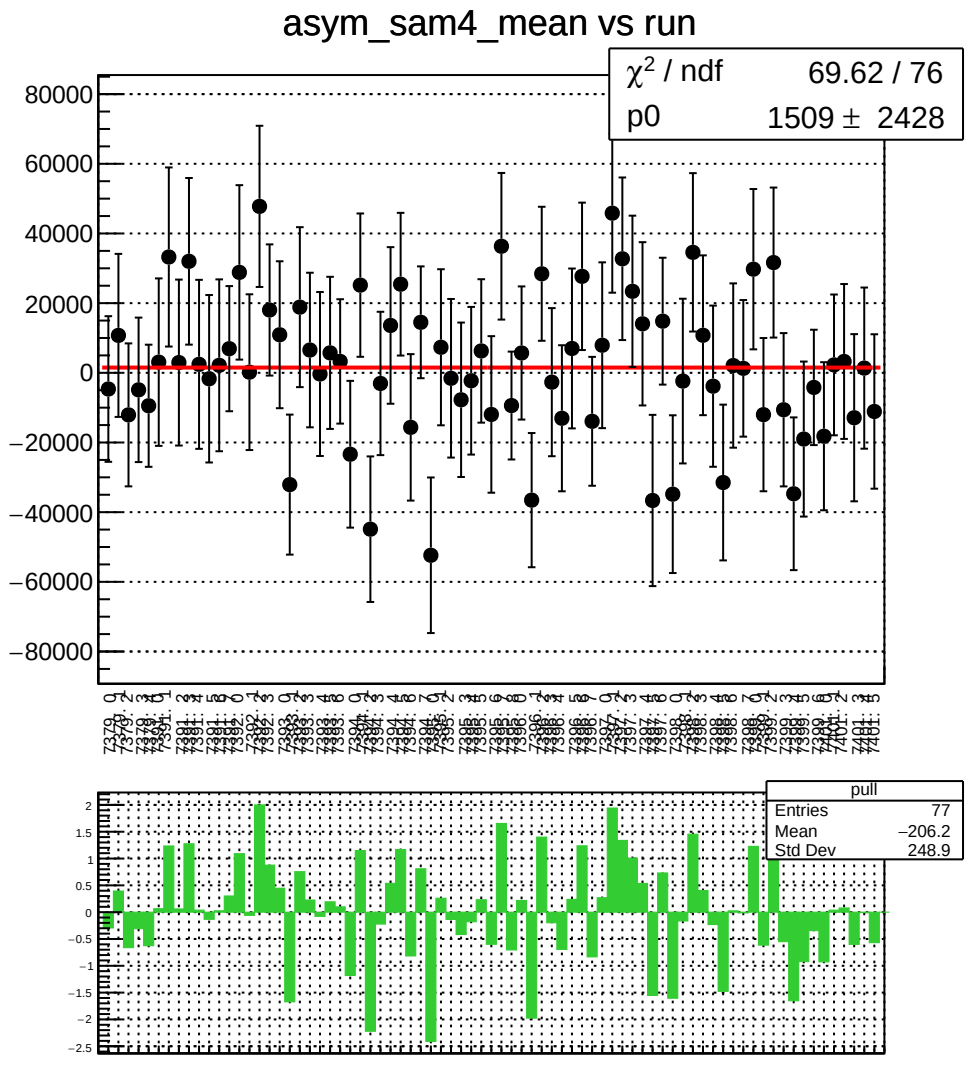

pull1D
Entries 77
Mean 0.008141
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

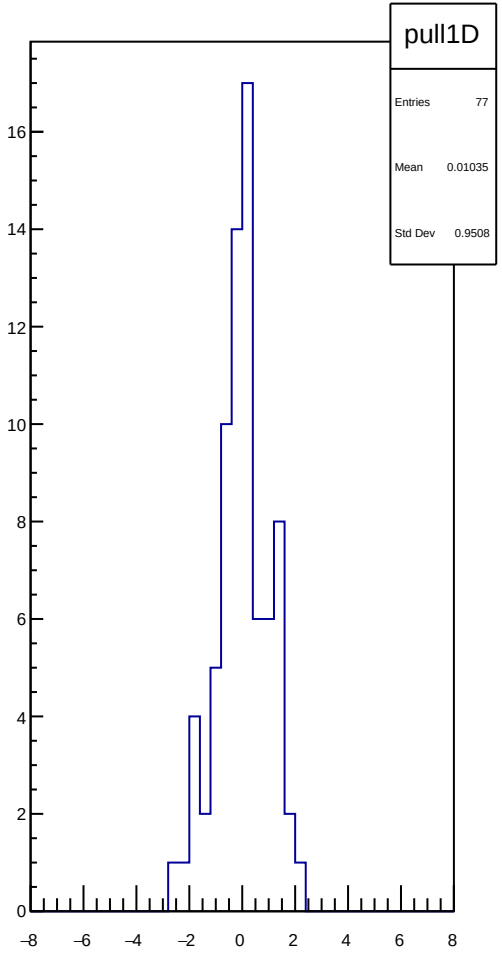

asym_sam2_rms vs run
χ^2 / ndf 2290 / 76
p0 1609 ± 1.313
1750
1700
1650
1600
1550
1500
1450

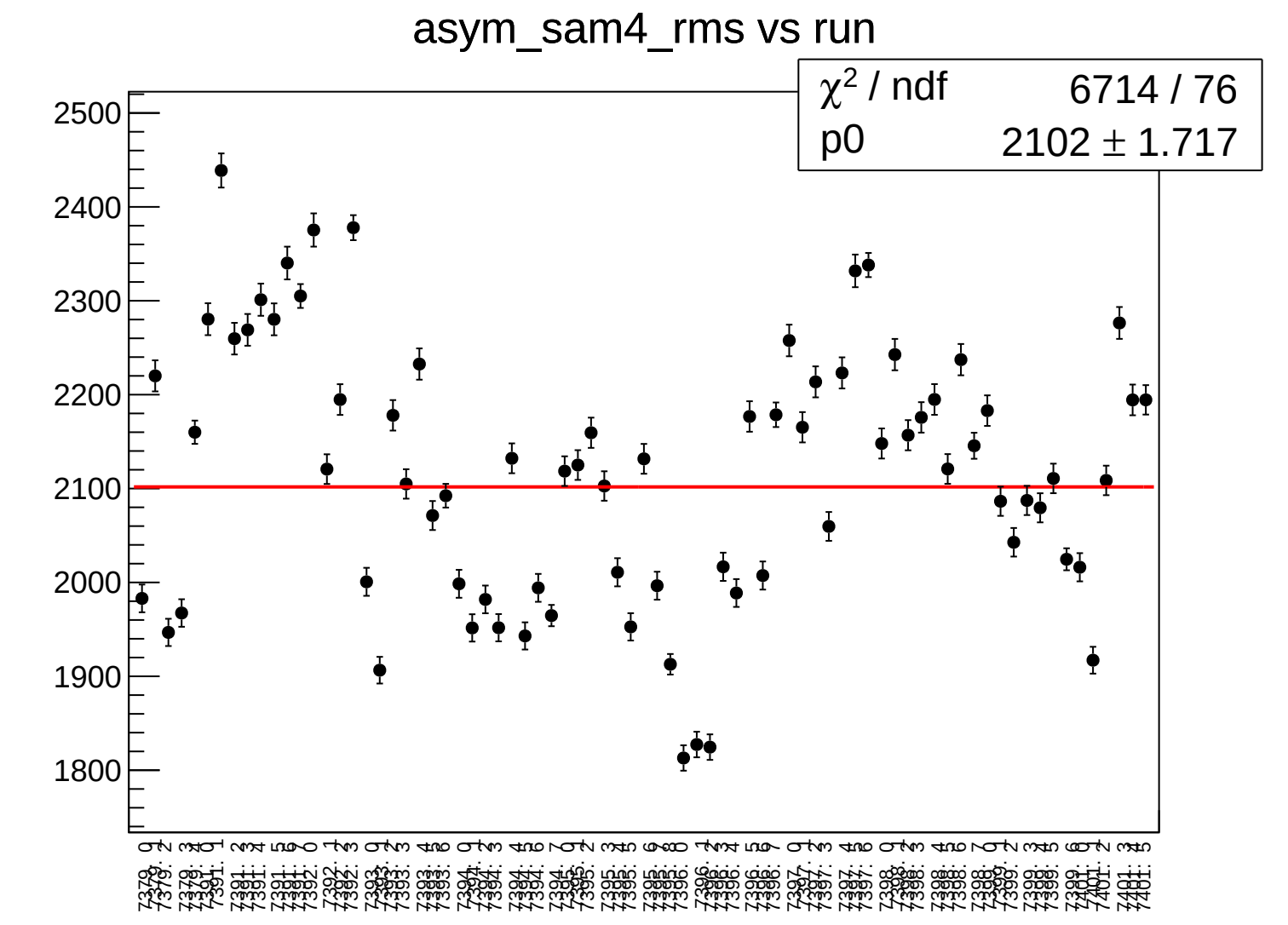

asym_sam3_mean vs run
χ² / ndf 76.73 / 76
p0 −91.7 ± 839
30000
20000
10000
0
−10000
−20000
pull
Entries 77
Mean −274.4
Std Dev 318.1
3
2
1
0
−1
−2

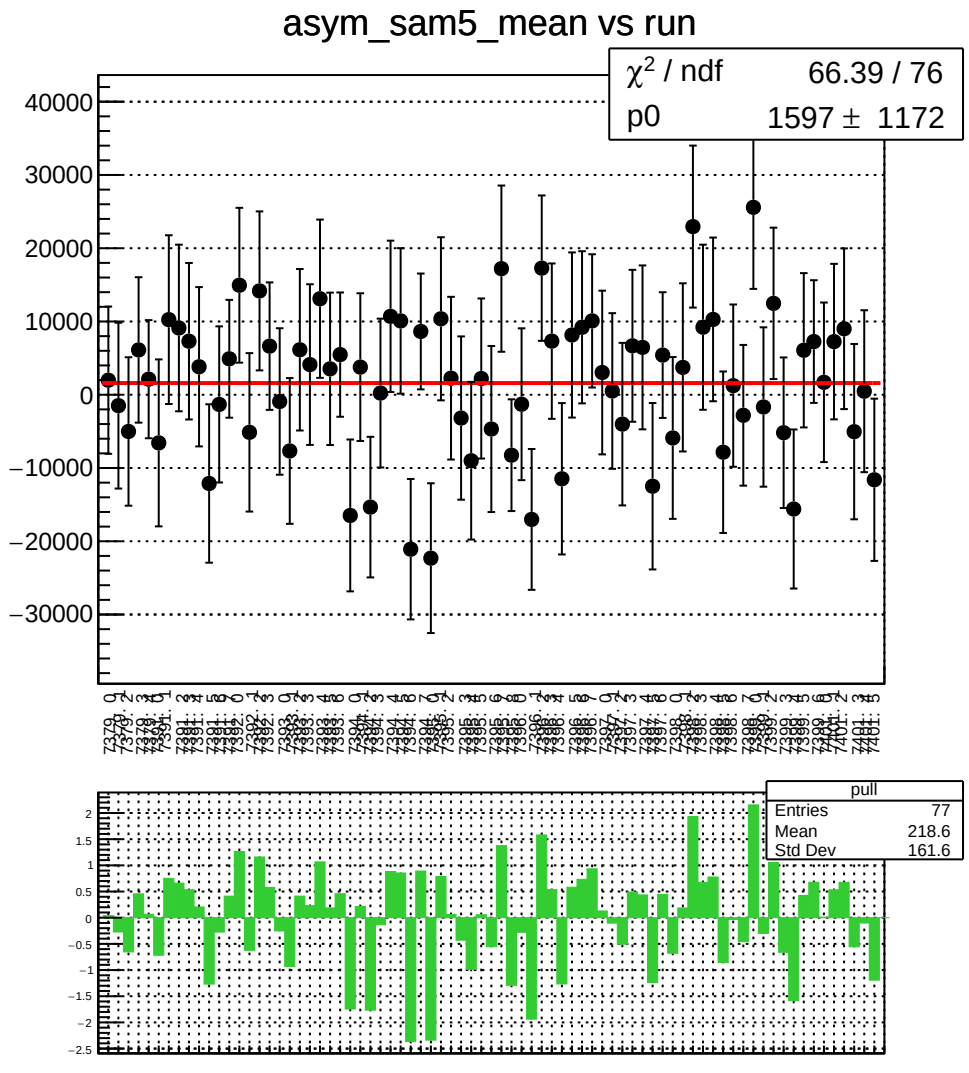

pull1D
Entries 77
Mean 0.01452
Std Dev 0.9981
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

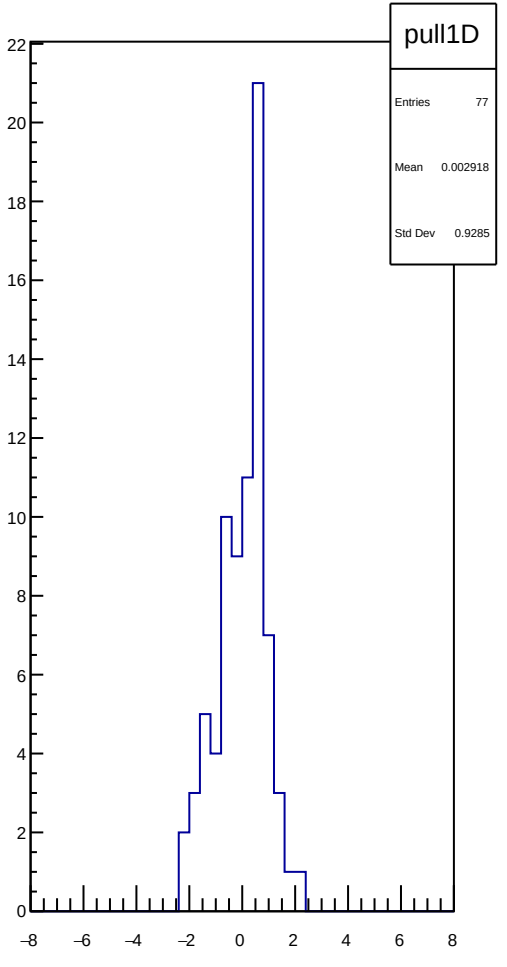

asym_sam3_rms vs run
χ^2 / ndf 1.104e+04 / 76
p0 725.2 ± 0.5933
900
850
800
750
700
650
600

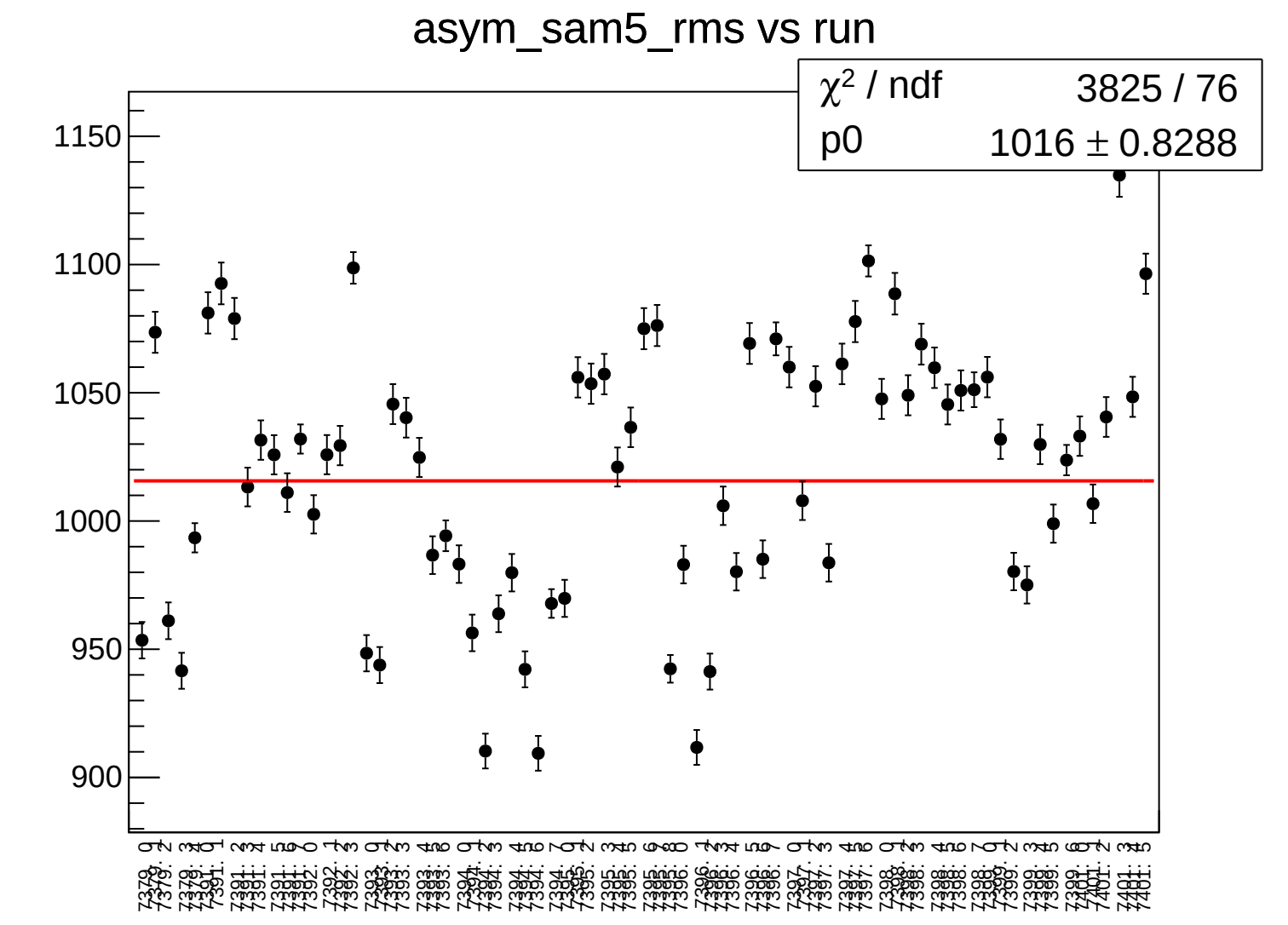

asym_sam4_mean vs run
χ² / ndf 69.62 / 76
p0 1509 ± 2428
pull
Entries 77
Mean −206.2
Std Dev 248.9

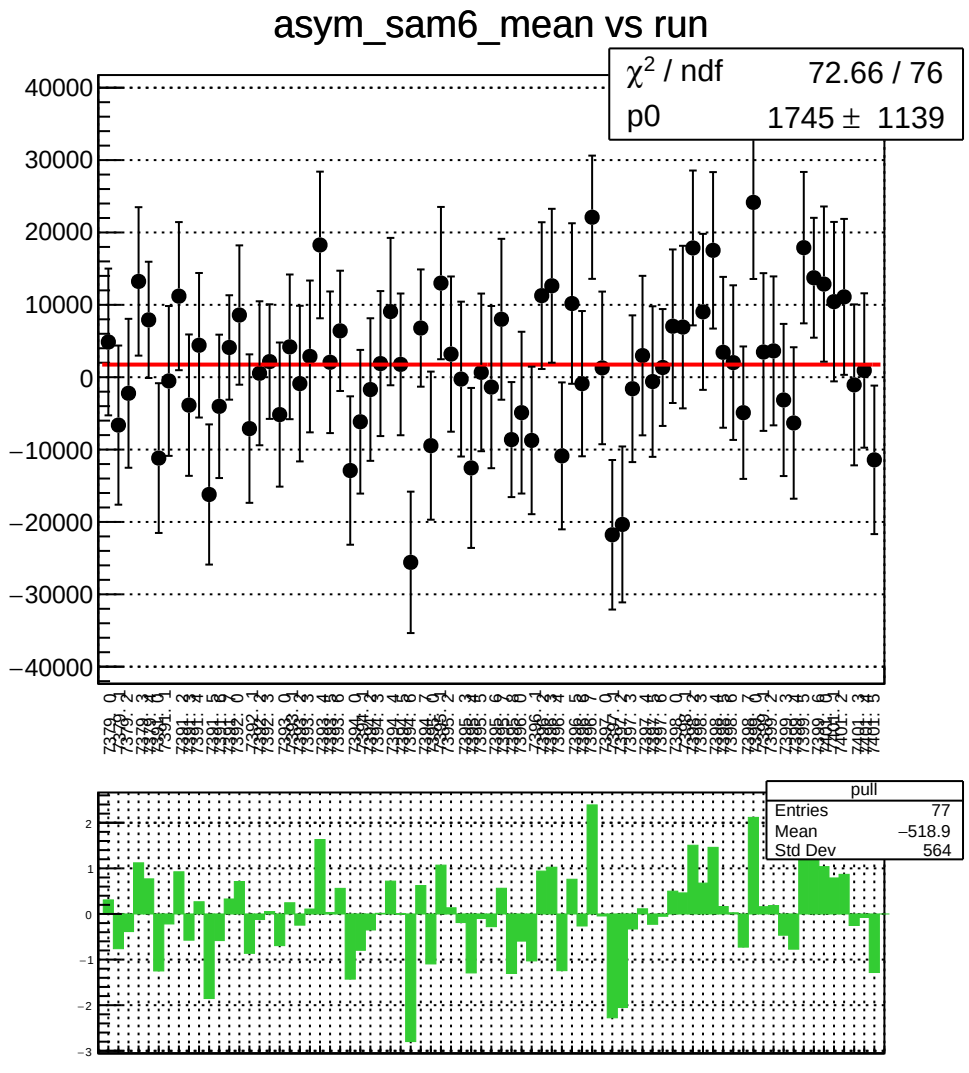

pull1D
Entries 77
Mean 0.01035
Std Dev 0.9508

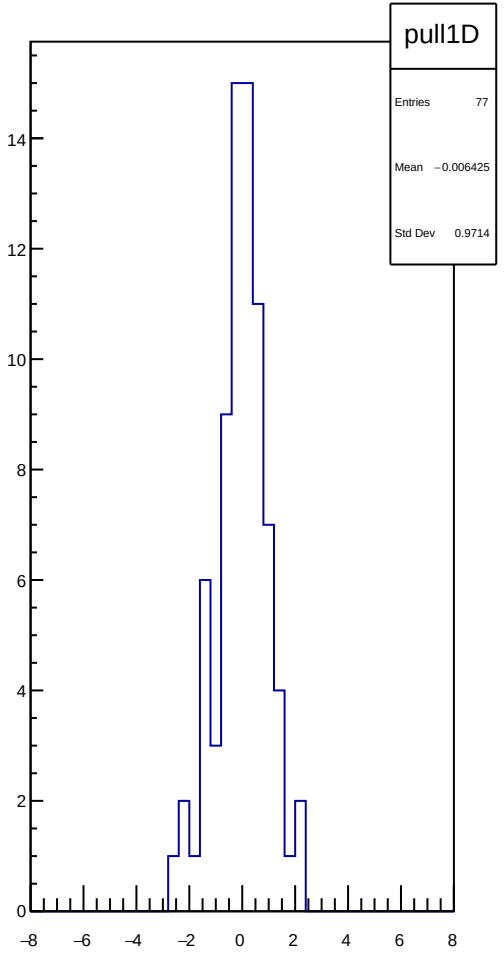

asym_sam4_rms vs run
χ² / ndf 6714 / 76
p0 2102 ± 1.717
2500
2400
2300
2200
2100
2000
1900
1800

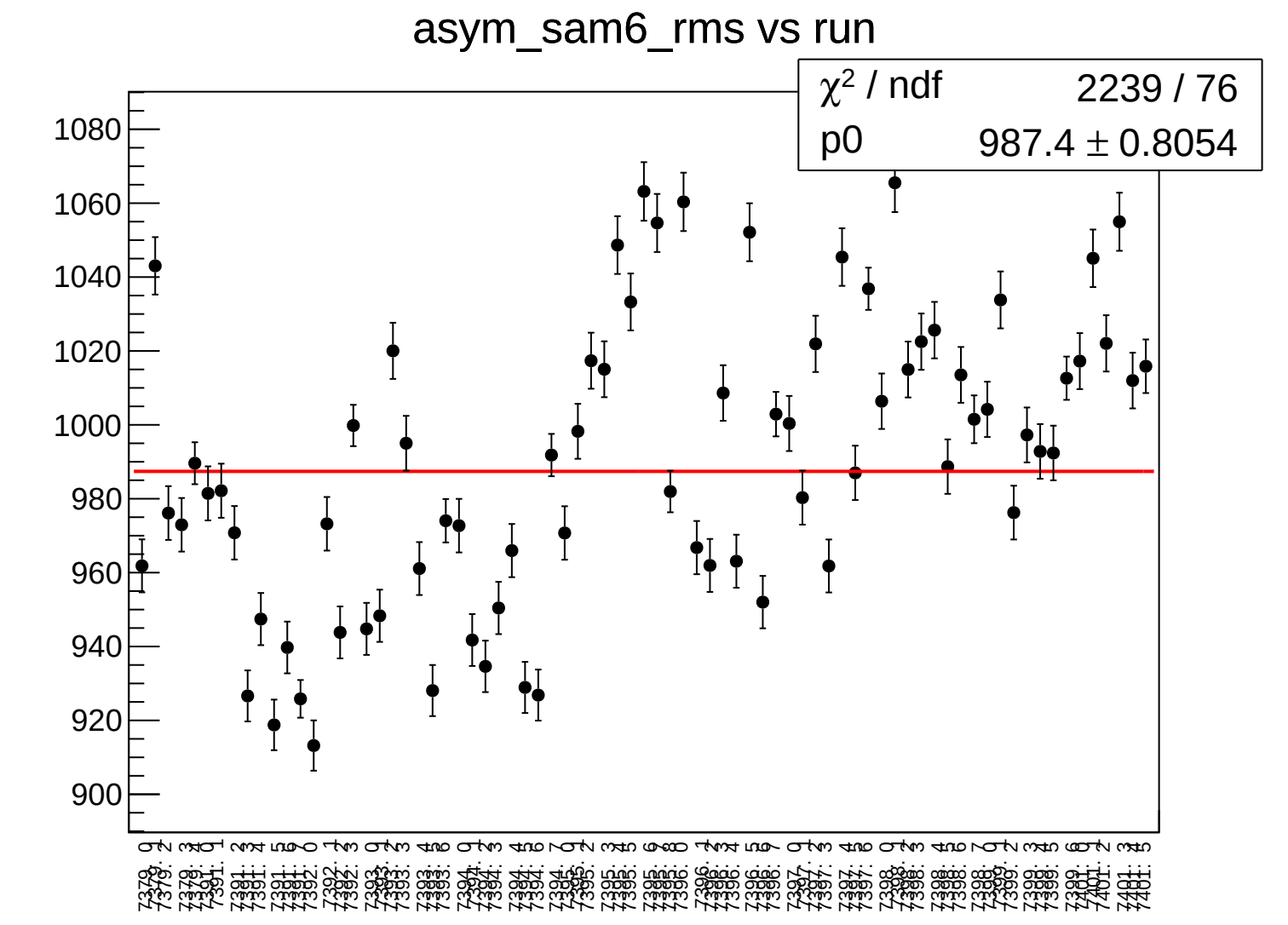

asym_sam5_mean vs run
χ² / ndf 66.39 / 76
p0 1597 ± 1172
pull
Entries 77
Mean 218.6
Std Dev 161.6

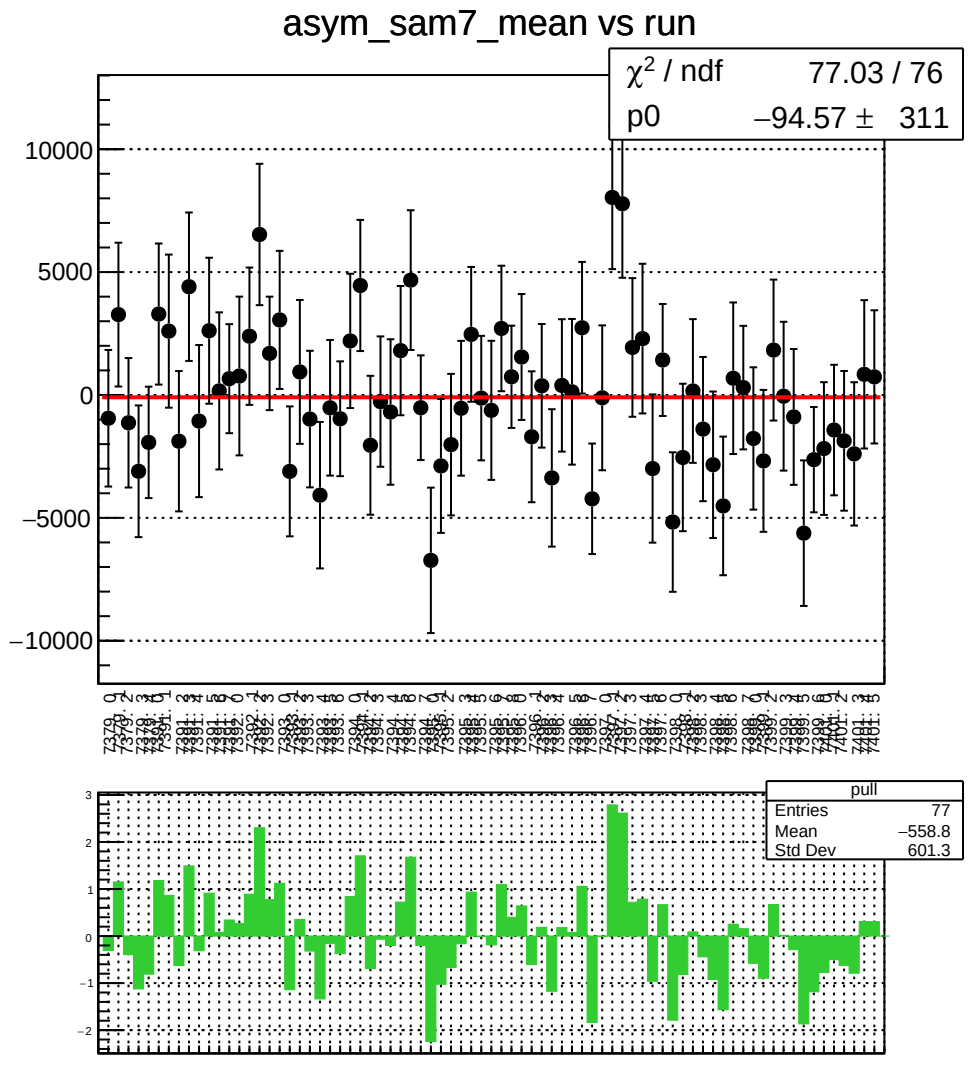

pull1D
Entries 77
Mean 0.002918
Std Dev 0.9285

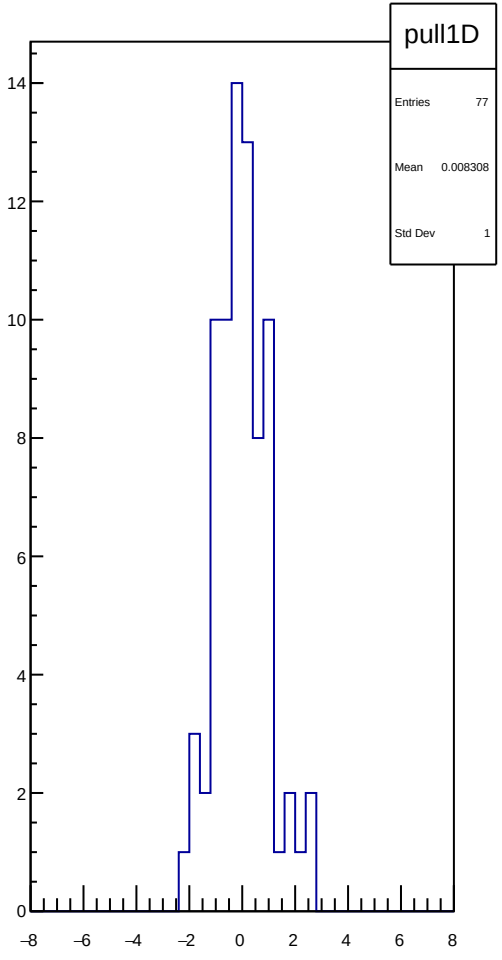

asym_sam5_rms vs run
χ² / ndf 3825 / 76
p0 1016 ± 0.8288
1150
1100
1050
1000
950
900

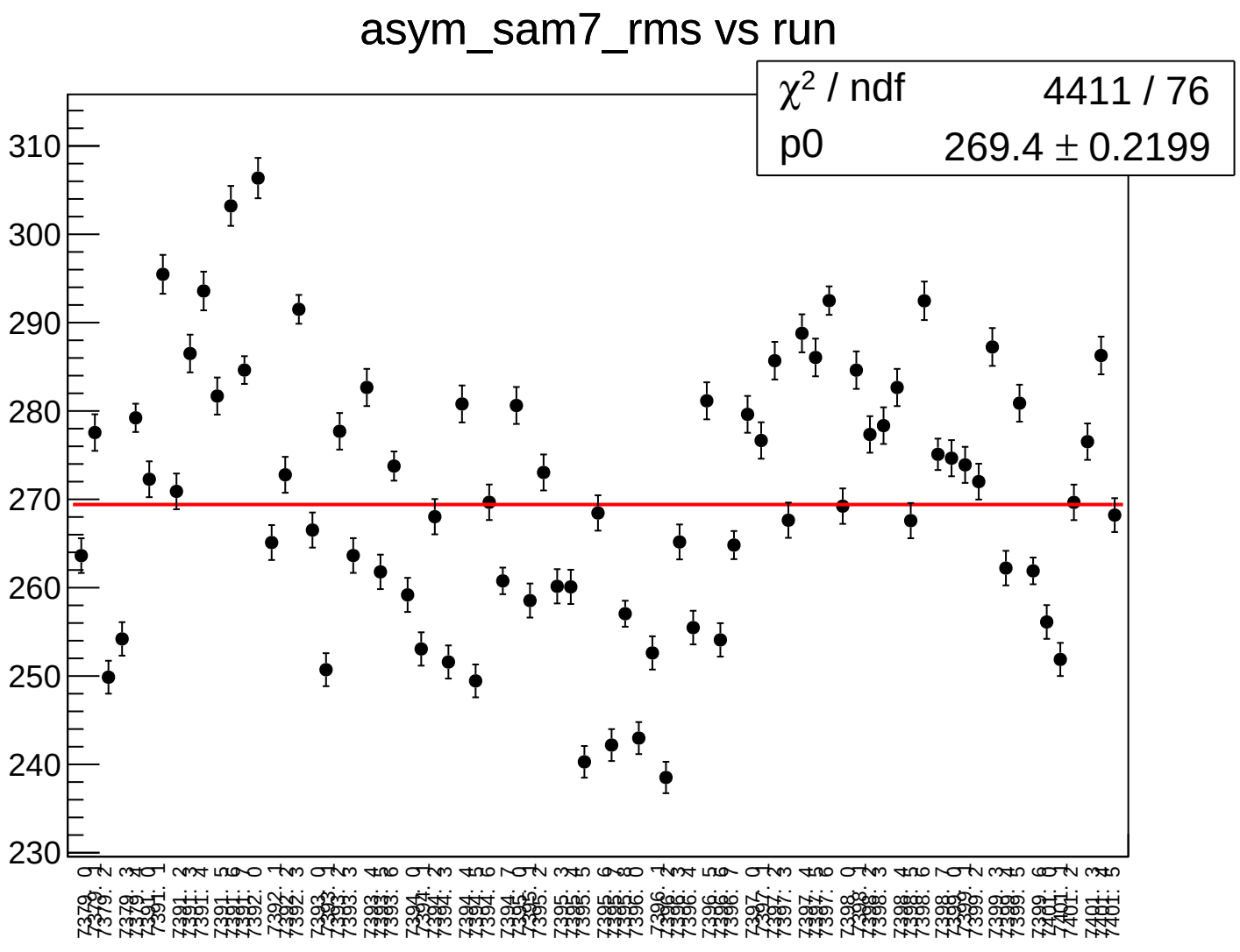

asym_sam6_mean vs run
χ² / ndf 72.66 / 76
p0 1745 ± 1139
pull
Entries 77
Mean −518.9
Std Dev 564

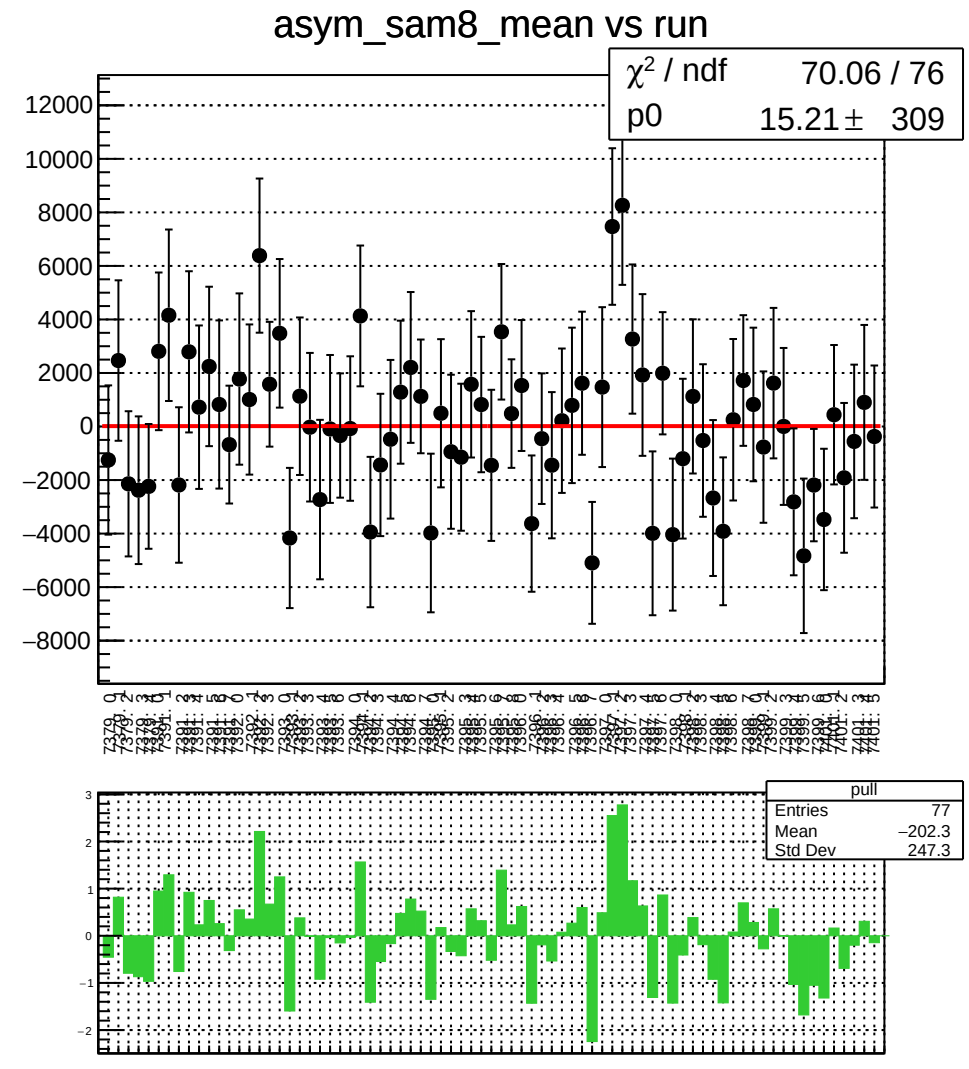

pull1D
Entries 77
Mean −0.006425
Std Dev 0.9714

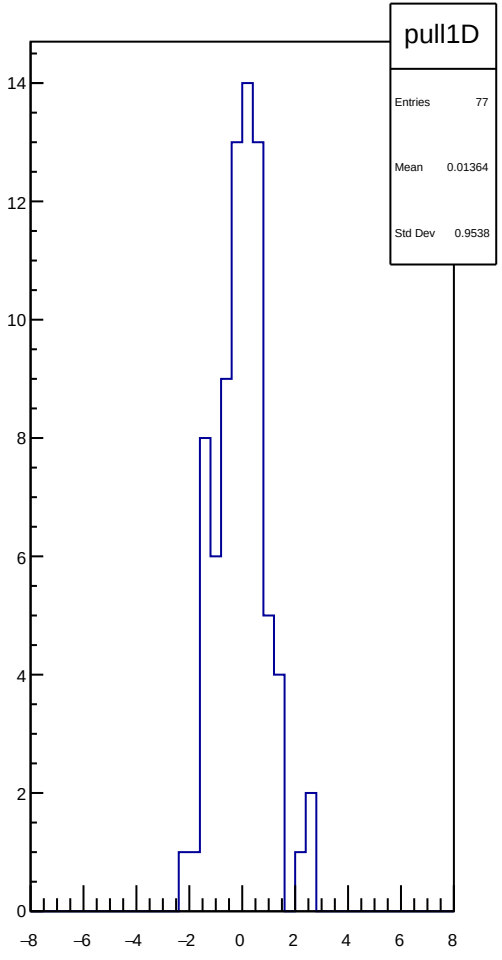

asym_sam6_rms vs run
χ² / ndf 2239 / 76
p0 987.4 ± 0.8054
1080
1060
1040
1020
1000
980
960
940
920
900

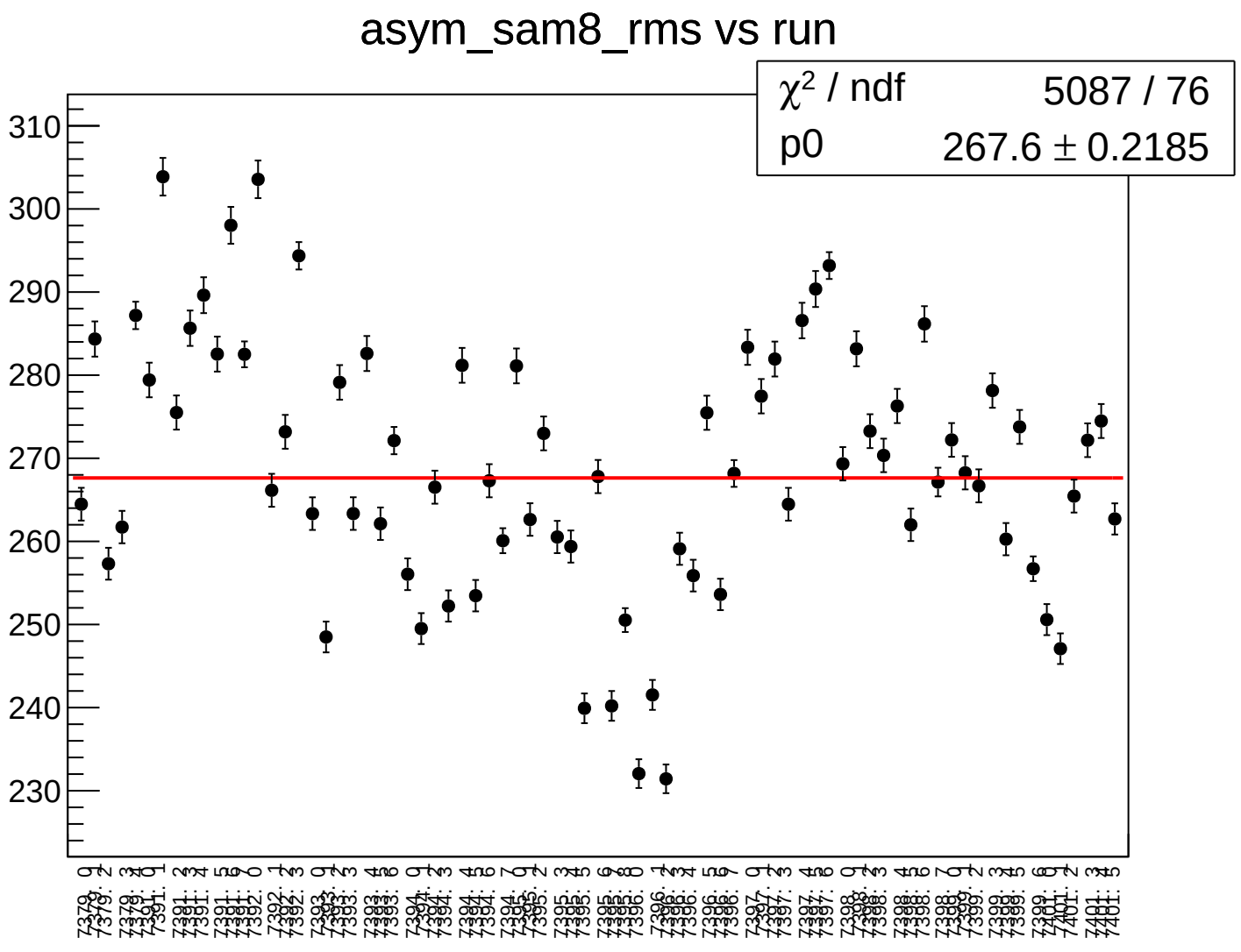

asym_sam7_mean vs run
χ² / ndf 77.03 / 76
p0 −94.57 ± 311
10000
5000
0
−5000
−10000
pull
Entries 77
Mean −558.8
Std Dev 601.3
3
2
1
0
−1
−2

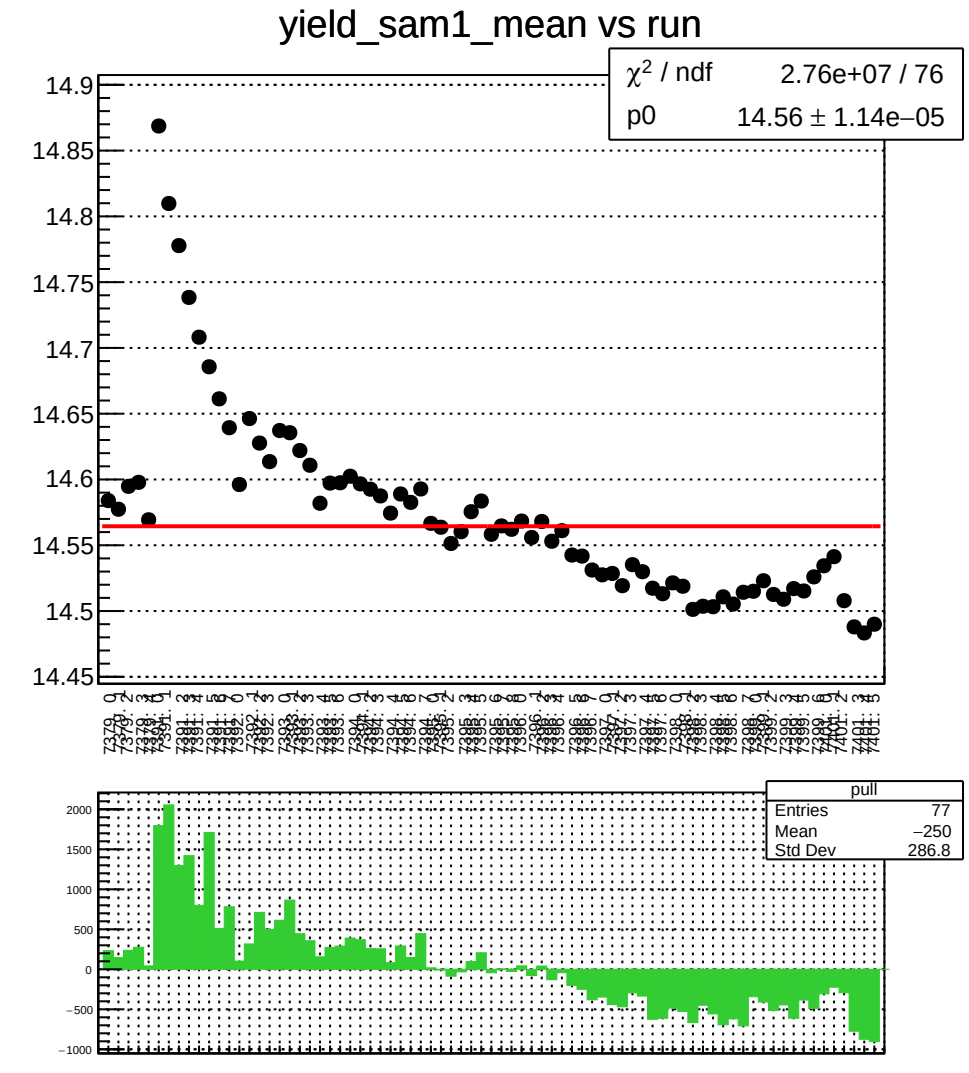

pull1D
Entries 77
Mean 0.008308
Std Dev 1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

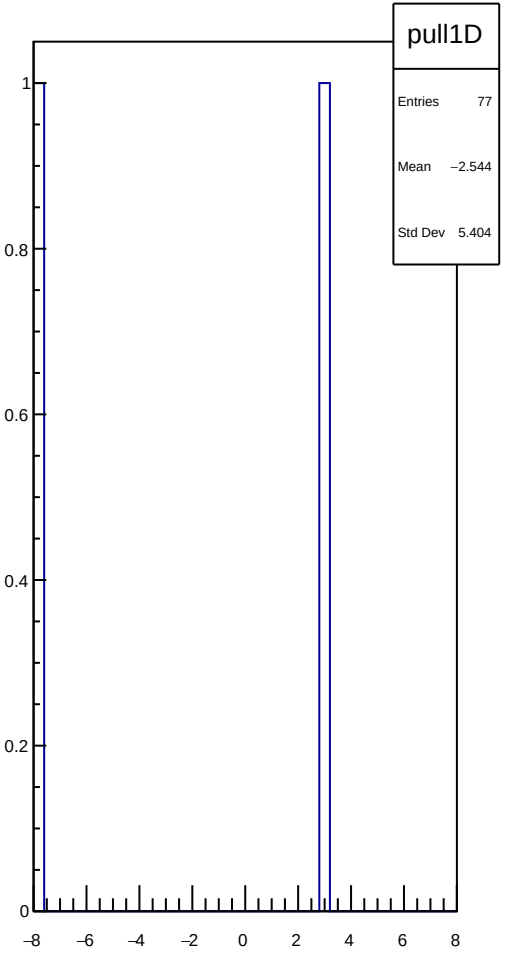

asym_sam7_rms vs run
χ^2 / ndf 4411 / 76
p0 269.4 ± 0.2199
310
300
290
280
270
260
250
240
230

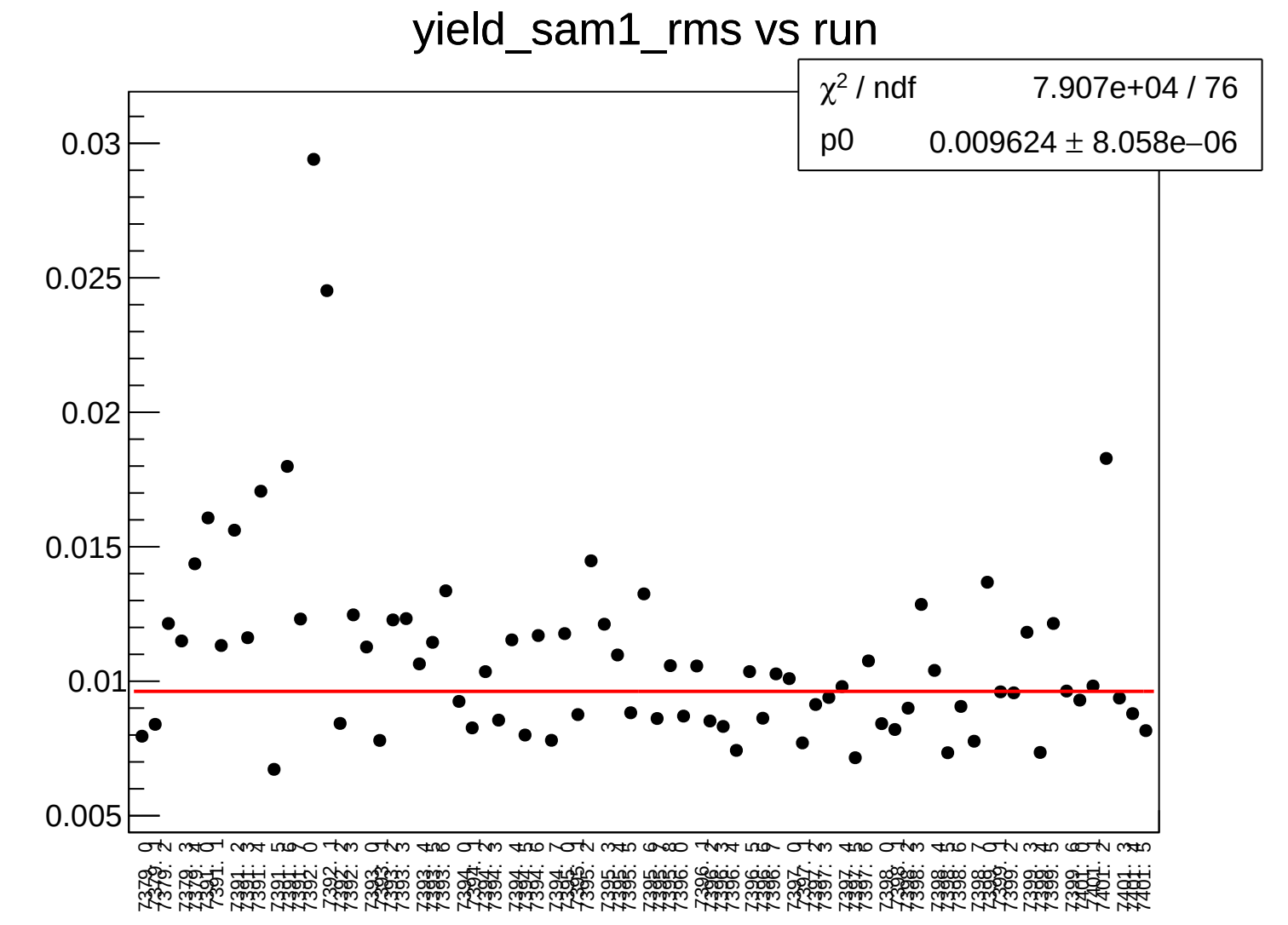

asym_sam8_mean vs run
χ² / ndf 70.06 / 76
p0 15.21 ± 309
pull
Entries 77
Mean −202.3
Std Dev 247.3

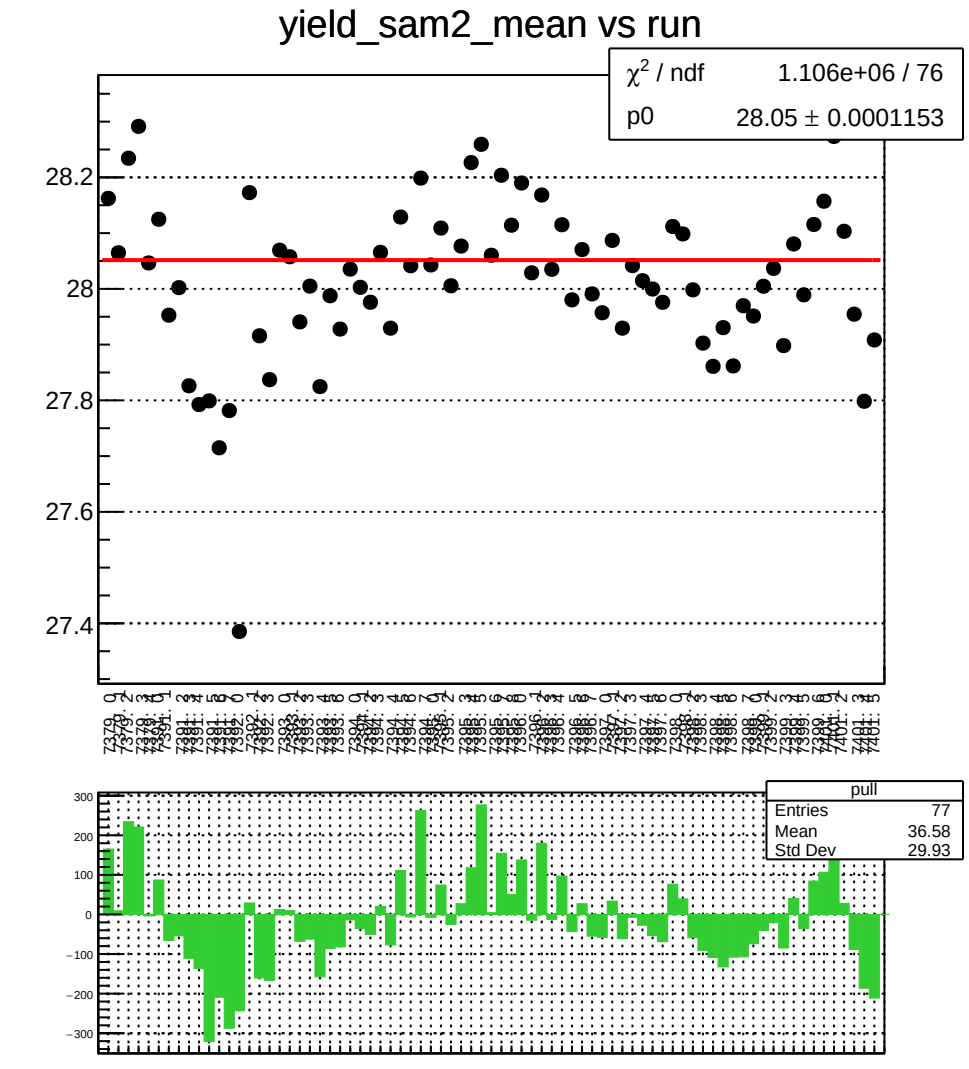

pull1D
Entries 77
Mean 0.01364
Std Dev 0.9538

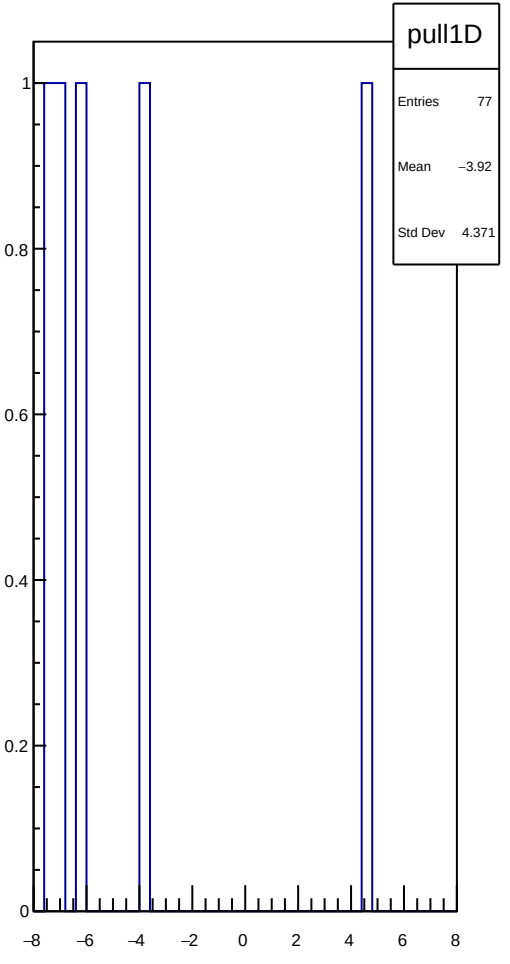

asym_sam8_rms vs run
χ² / ndf 5087 / 76
p0 267.6 ± 0.2185
310
300
290
280
270
260
250
240
230

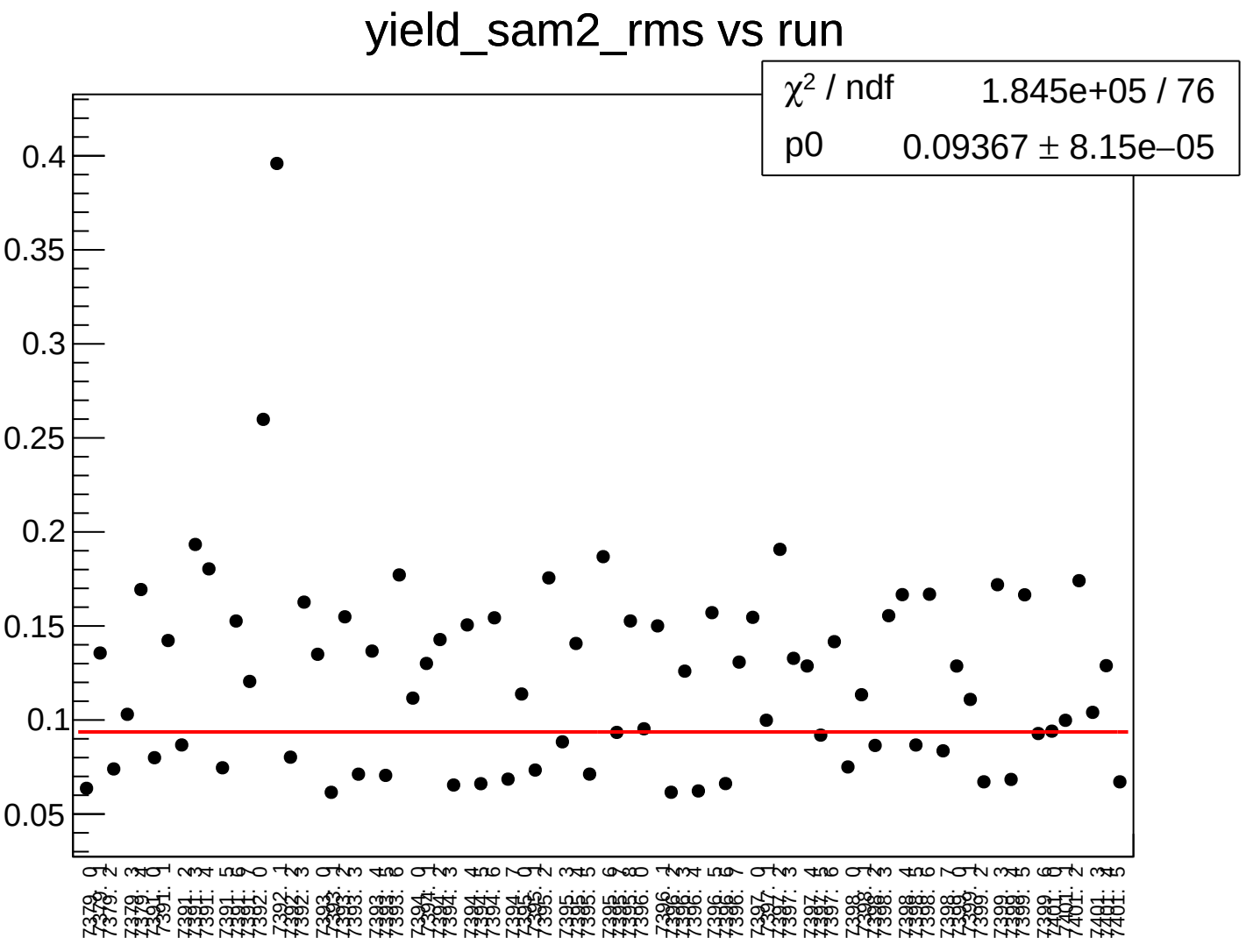

yield_sam1_mean vs run
χ² / ndf 2.76e+07 / 76
p0 14.56 ± 1.14e−05
14.9
14.85
14.8
14.75
14.7
14.65
14.6
14.55
14.5
14.45
pull
Entries 77
Mean −250
Std Dev 286.8
2000
1500
1000
500
0
−500
−1000

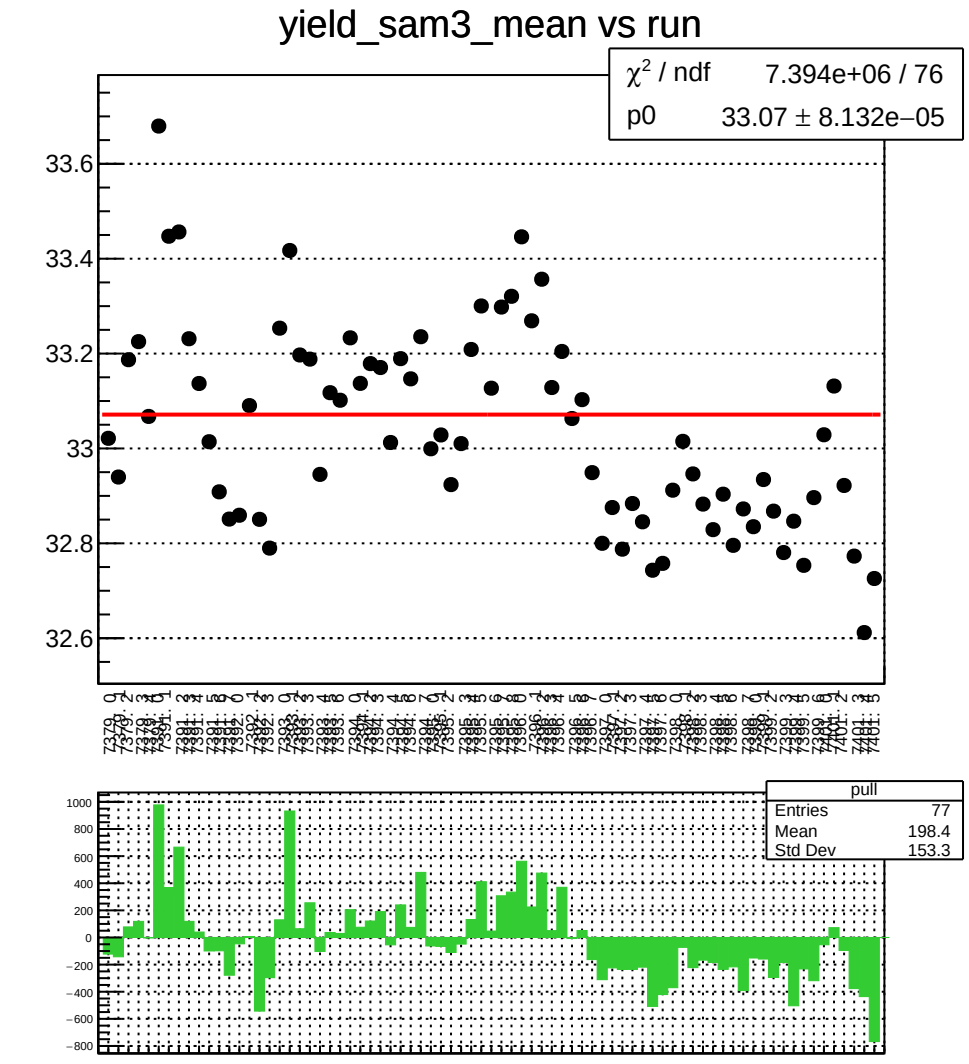

pull1D
Entries 77
Mean −2.544
Std Dev 5.404
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

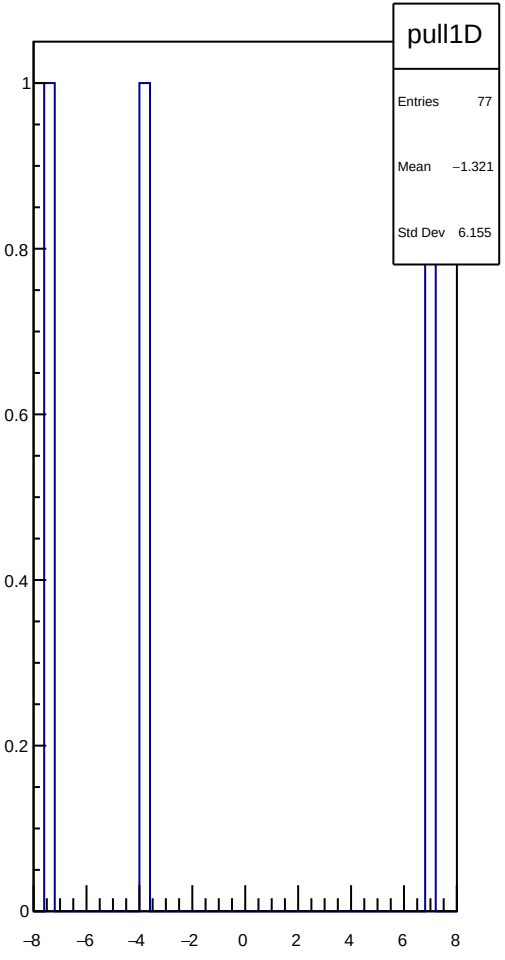

yield_sam1_rms vs run
χ² / ndf 7.907e+04 / 76
p0 0.009624 ± 8.058e−06
0.03
0.025
0.02
0.015
0.01
0.005

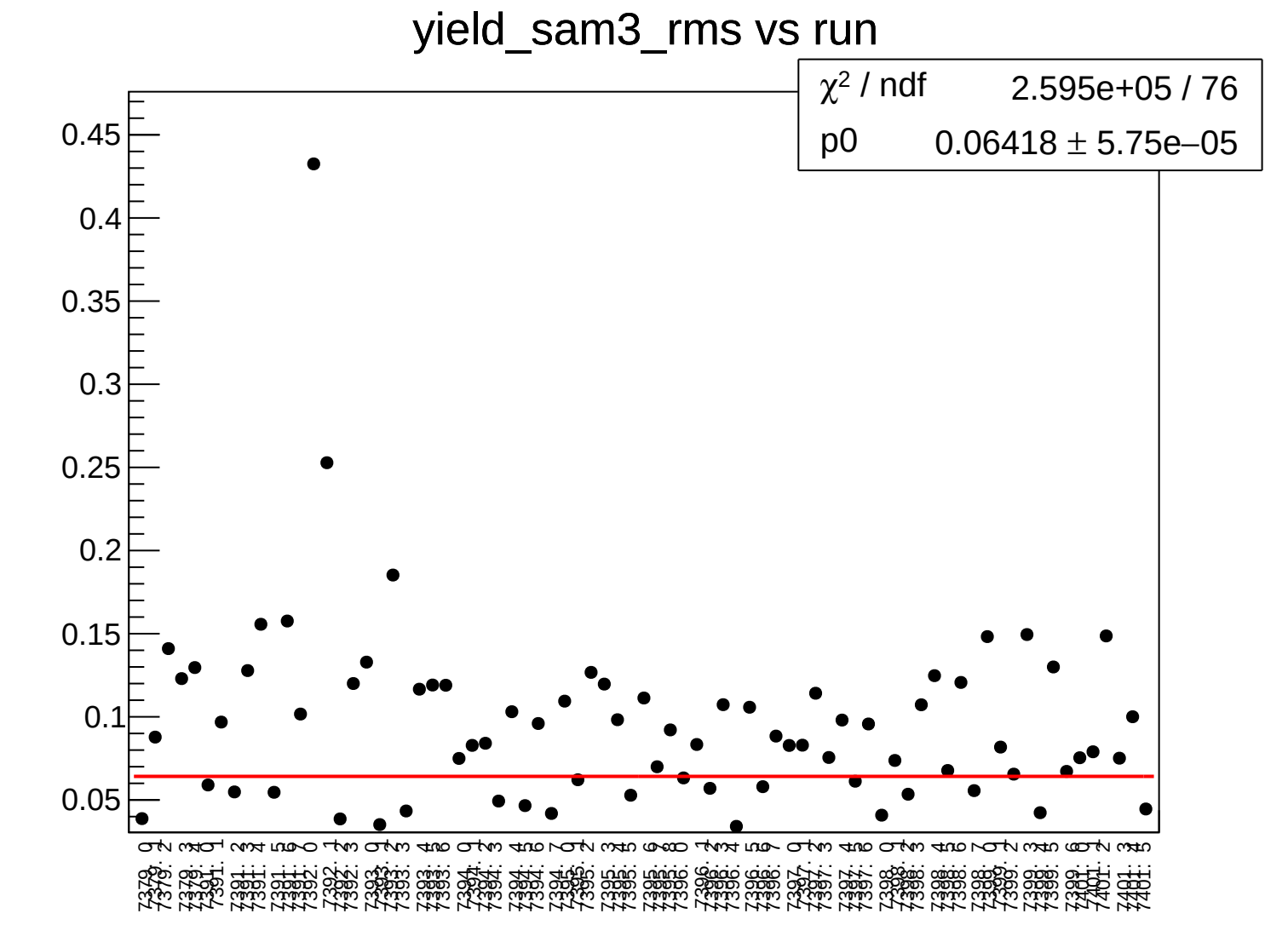

yield_sam2_mean vs run
χ² / ndf 1.106e+06 / 76
p0 28.05 ± 0.0001153
28.2
28
27.8
27.6
27.4
pull
Entries 77
Mean 36.58
Std Dev 29.93
300
200
100
0
−100
−200
−300

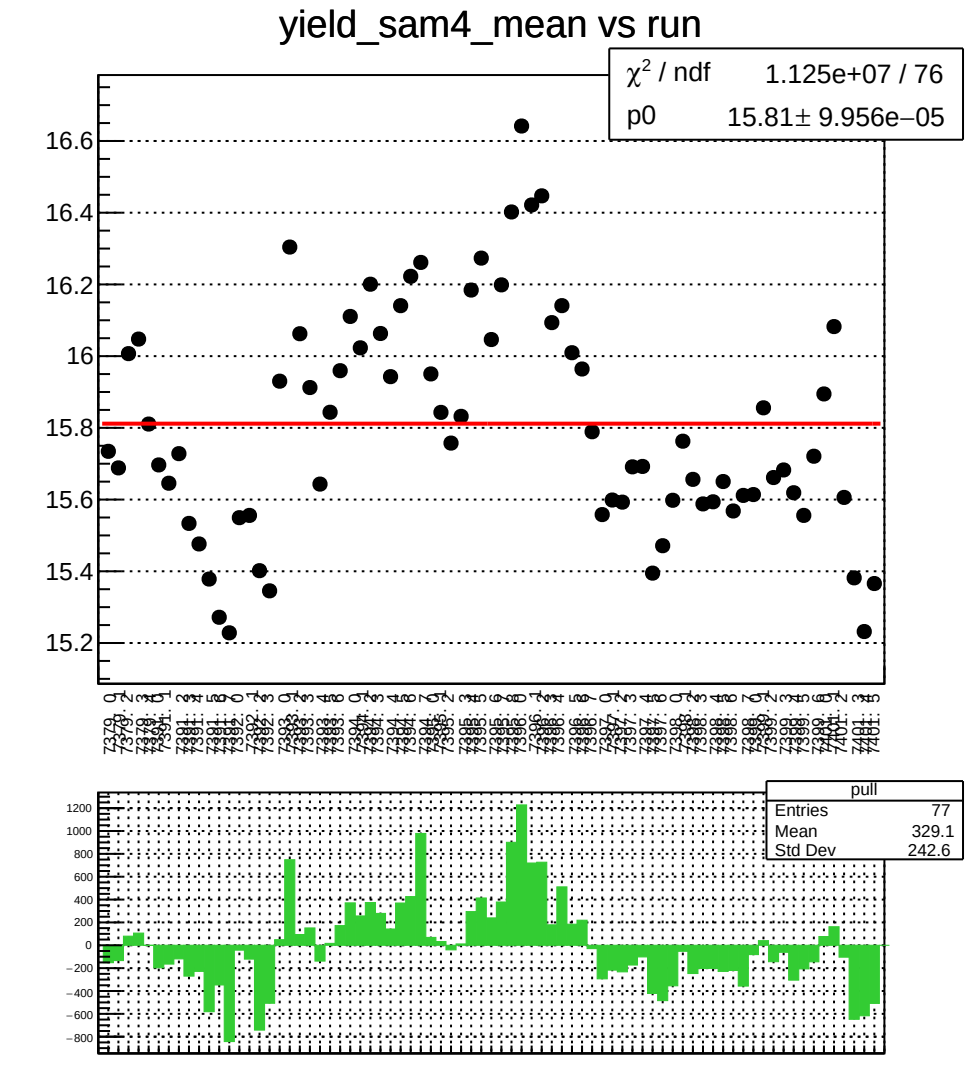

pull1D
Entries 77
Mean −3.92
Std Dev 4.371
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

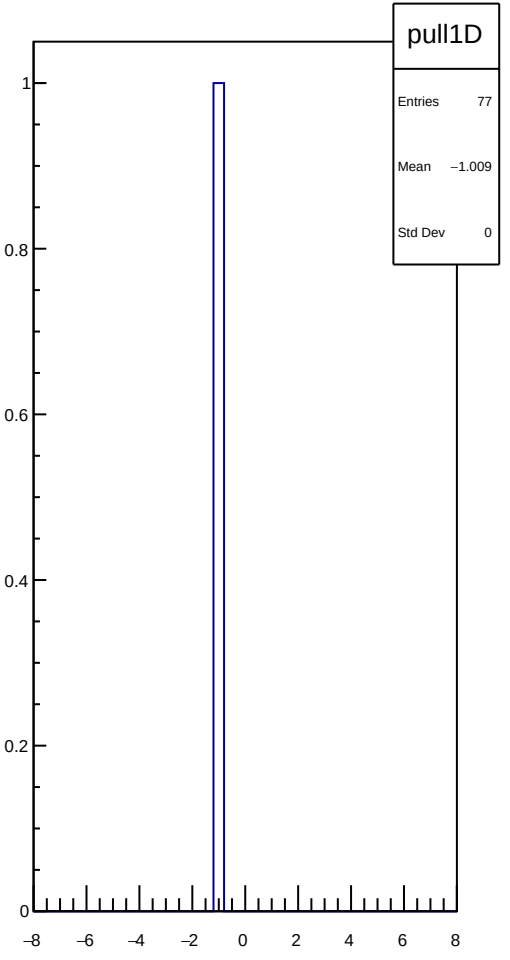

yield_sam2_rms vs run
χ² / ndf 1.845e+05 / 76
p0 0.09367 ± 8.15e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

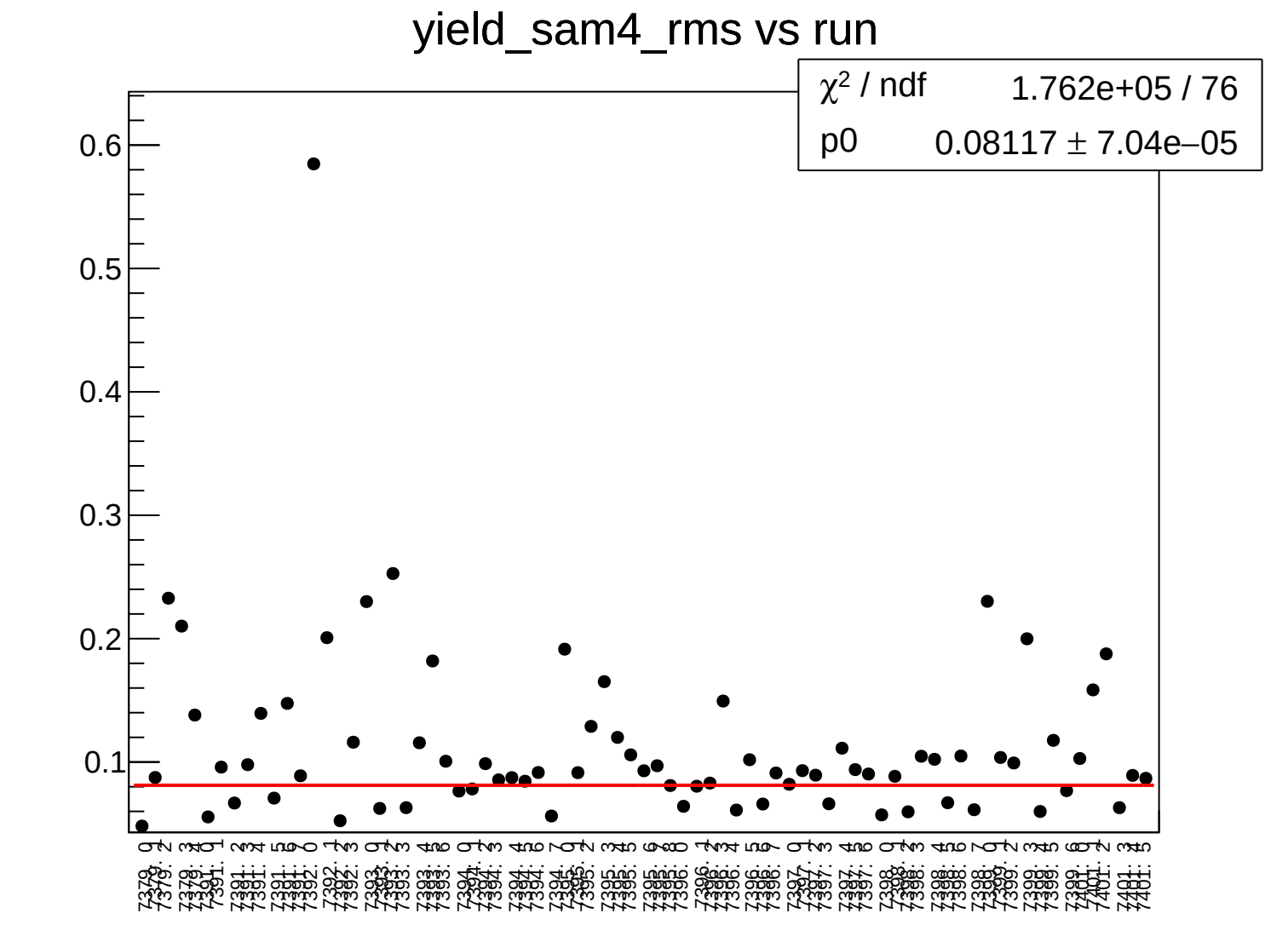

yield_sam3_mean vs run
χ² / ndf 7.394e+06 / 76
p0 33.07 ± 8.132e−05
33.6
33.4
33.2
33
32.8
32.6
pull
Entries 77
Mean 198.4
Std Dev 153.3
1000
800
600
400
200
0
−200
−400
−600
−800

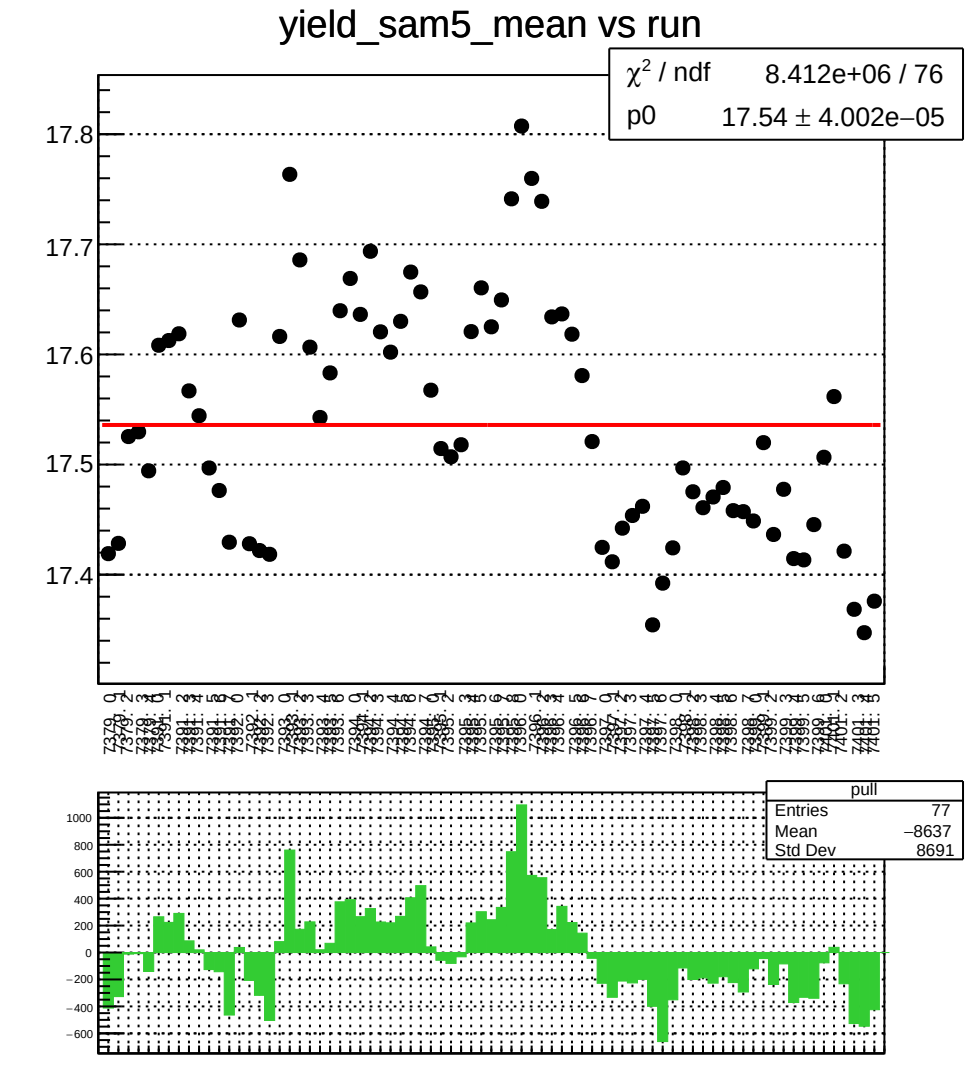

pull1D
Entries 77
Mean −1.321
Std Dev 6.155
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

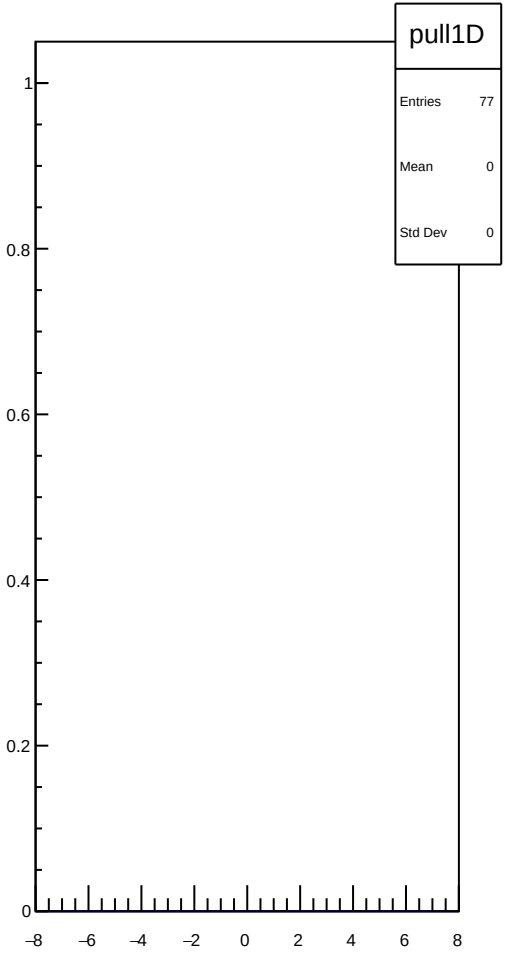

yield_sam3_rms vs run
χ² / ndf 2.595e+05 / 76
p0 0.06418 ± 5.75e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

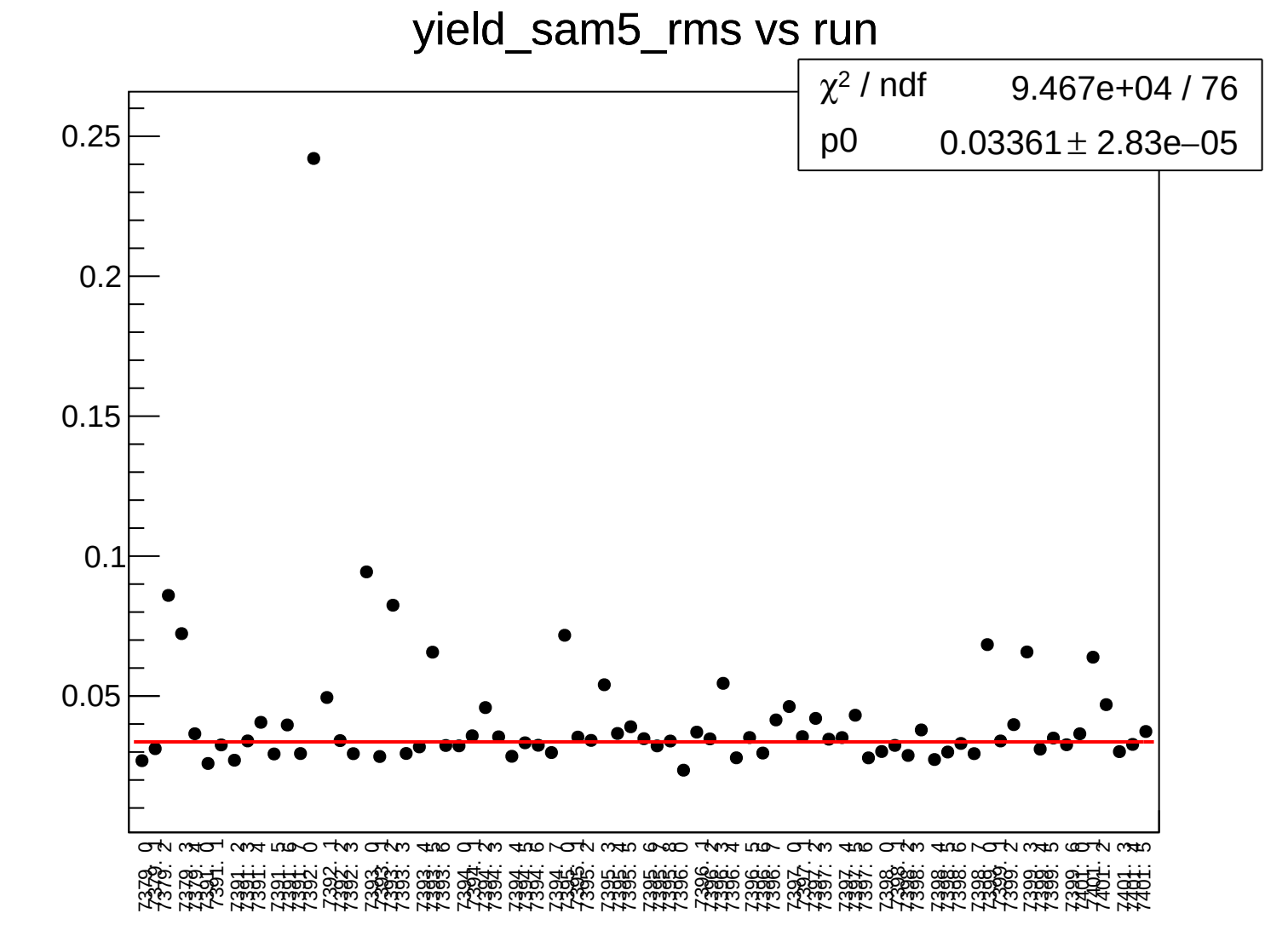

yield_sam4_mean vs run
χ² / ndf 1.125e+07 / 76
p0 15.81± 9.956e−05
16.6
16.4
16.2
16
15.8
15.6
15.4
15.2
pull
Entries 77
Mean 329.1
Std Dev 242.6
1200
1000
800
600
400
200
0
−200
−400
−600
−800

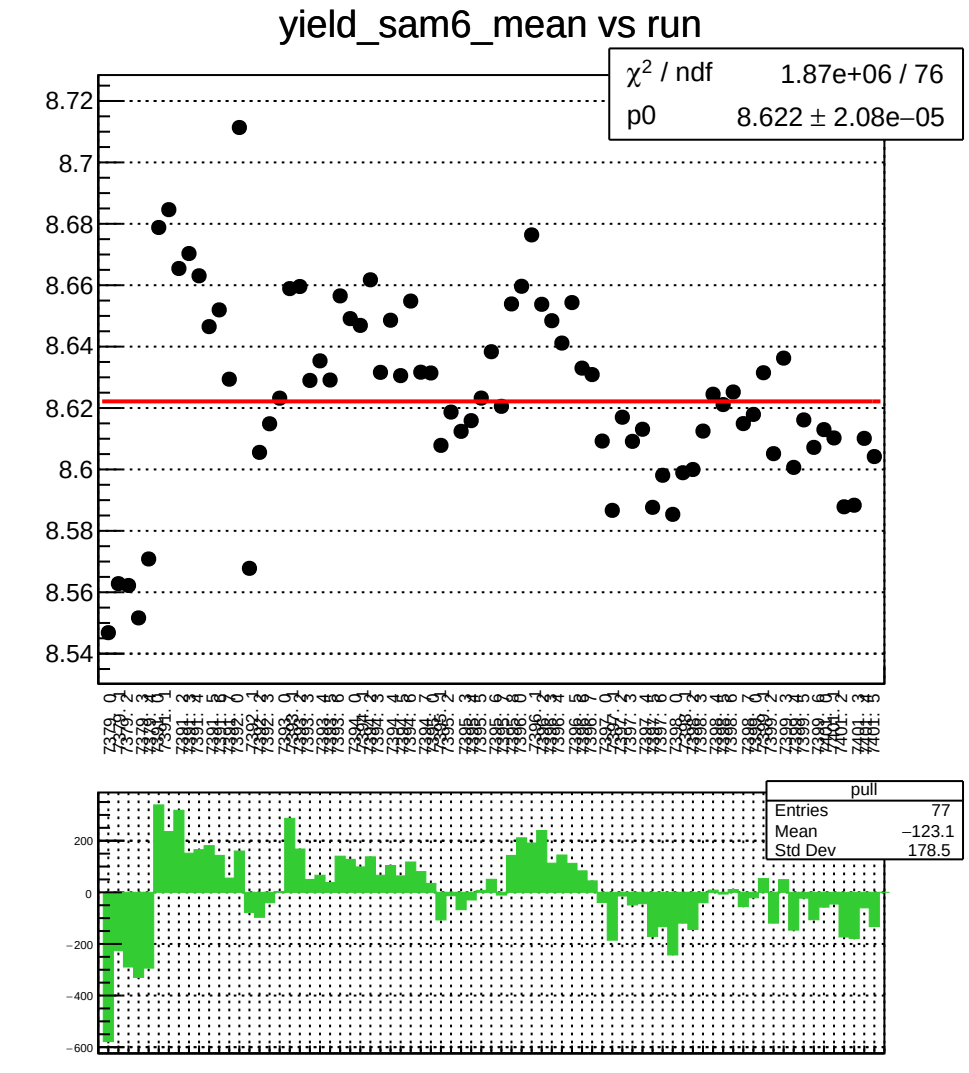

pull1D
Entries 77
Mean −1.009
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

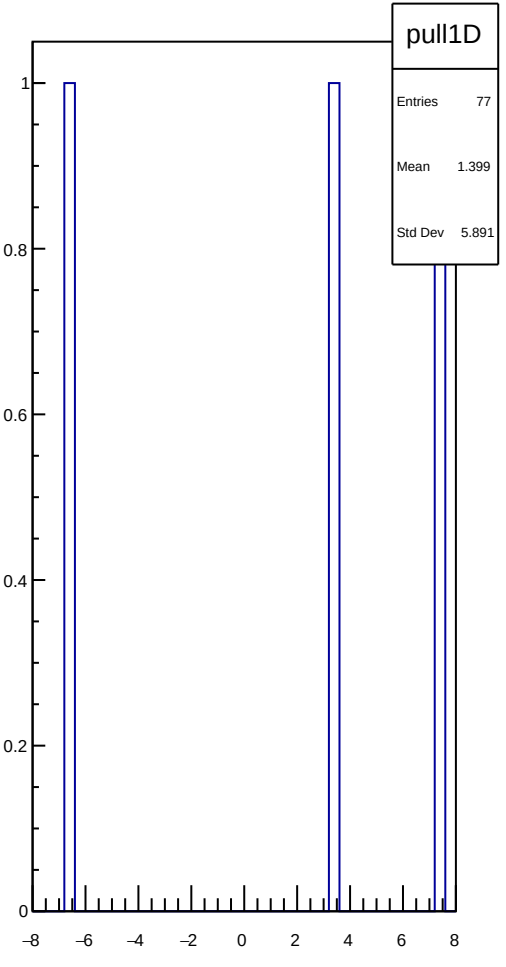

yield_sam4_rms vs run
χ² / ndf 1.762e+05 / 76
p0 0.08117 ± 7.04e−05
0.6
0.5
0.4
0.3
0.2
0.1

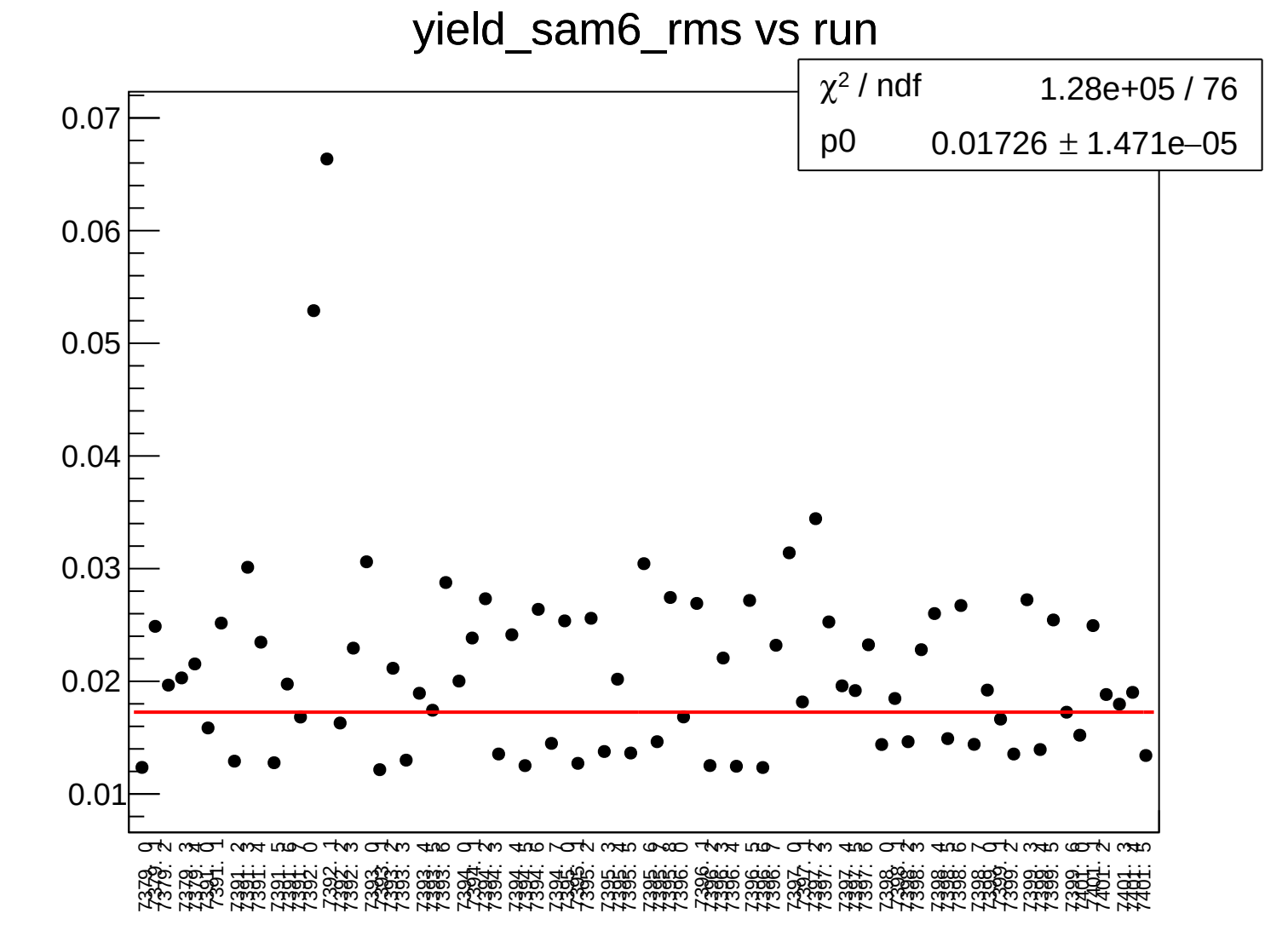

yield_sam5_mean vs run
χ² / ndf 8.412e+06 / 76
p0 17.54 ± 4.002e−05
17.8
17.7
17.6
17.5
17.4
pull
Entries 77
Mean −8637
Std Dev 8691
1000
800
600
400
200
0
−200
−400
−600

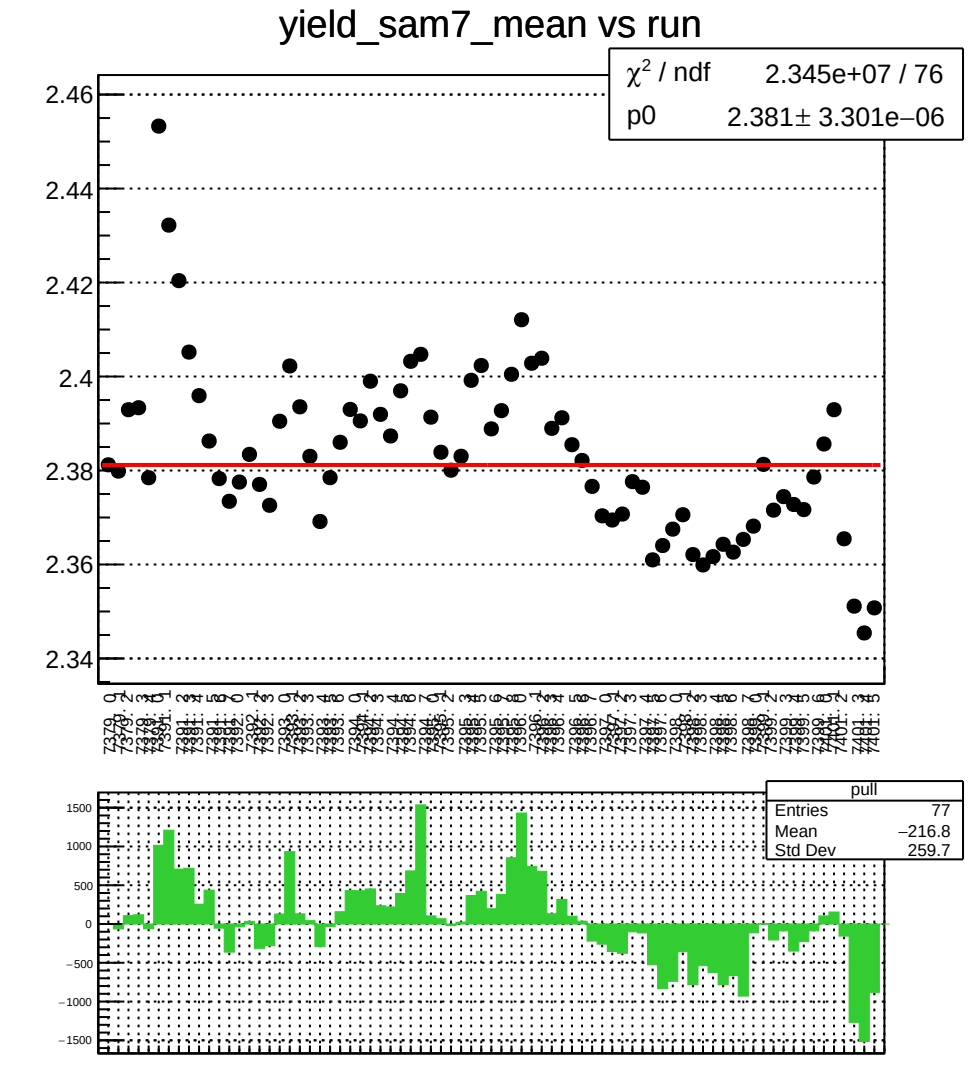

pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

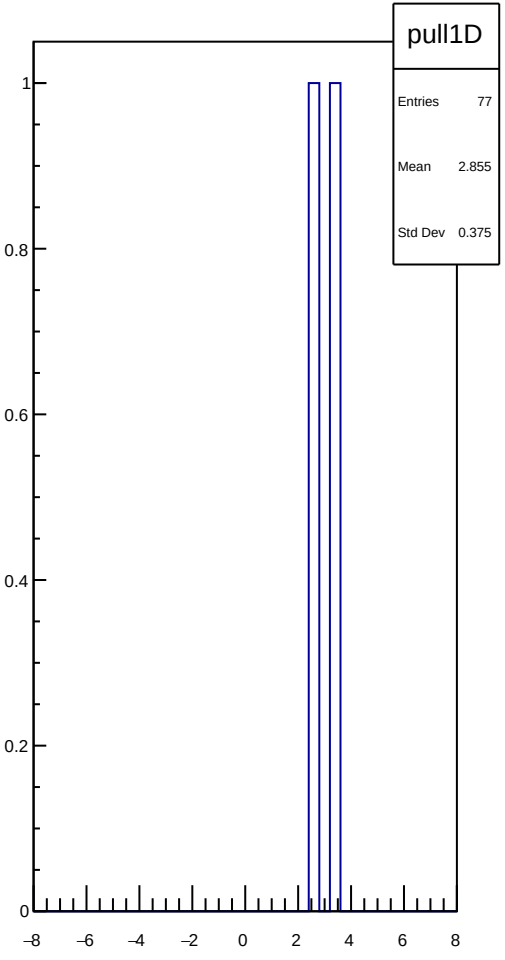

yield_sam5_rms vs run
χ^2 / ndf 9.467e+04 / 76
p0 0.03361 ± 2.83e−05
0.25
0.2
0.15
0.1
0.05

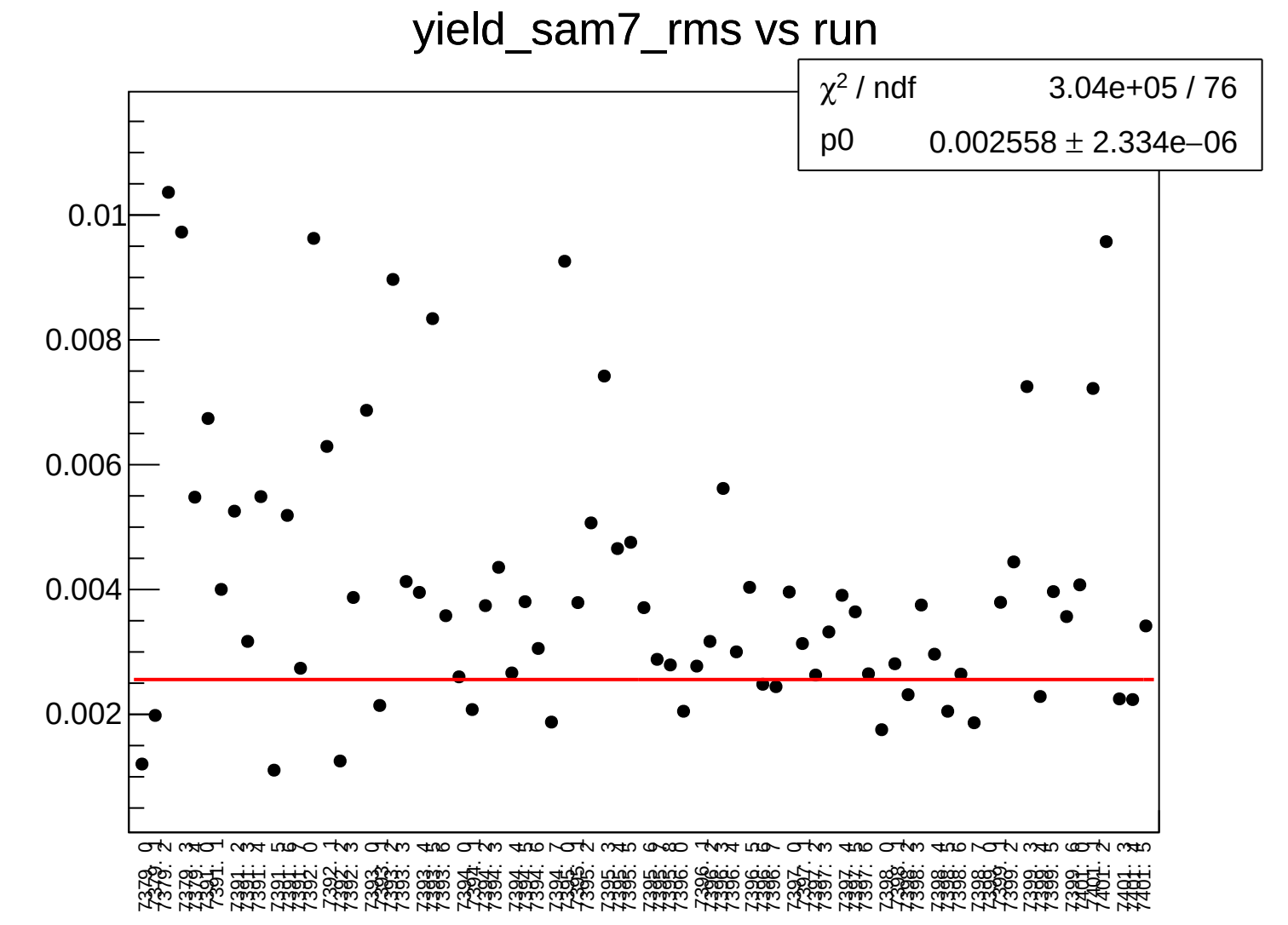

yield_sam6_mean vs run
χ² / ndf 1.87e+06 / 76
p0 8.622 ± 2.08e−05
8.72
8.7
8.68
8.66
8.64
8.62
8.6
8.58
8.56
8.54
pull
Entries 77
Mean −123.1
Std Dev 178.5
200
0
−200
−400
−600

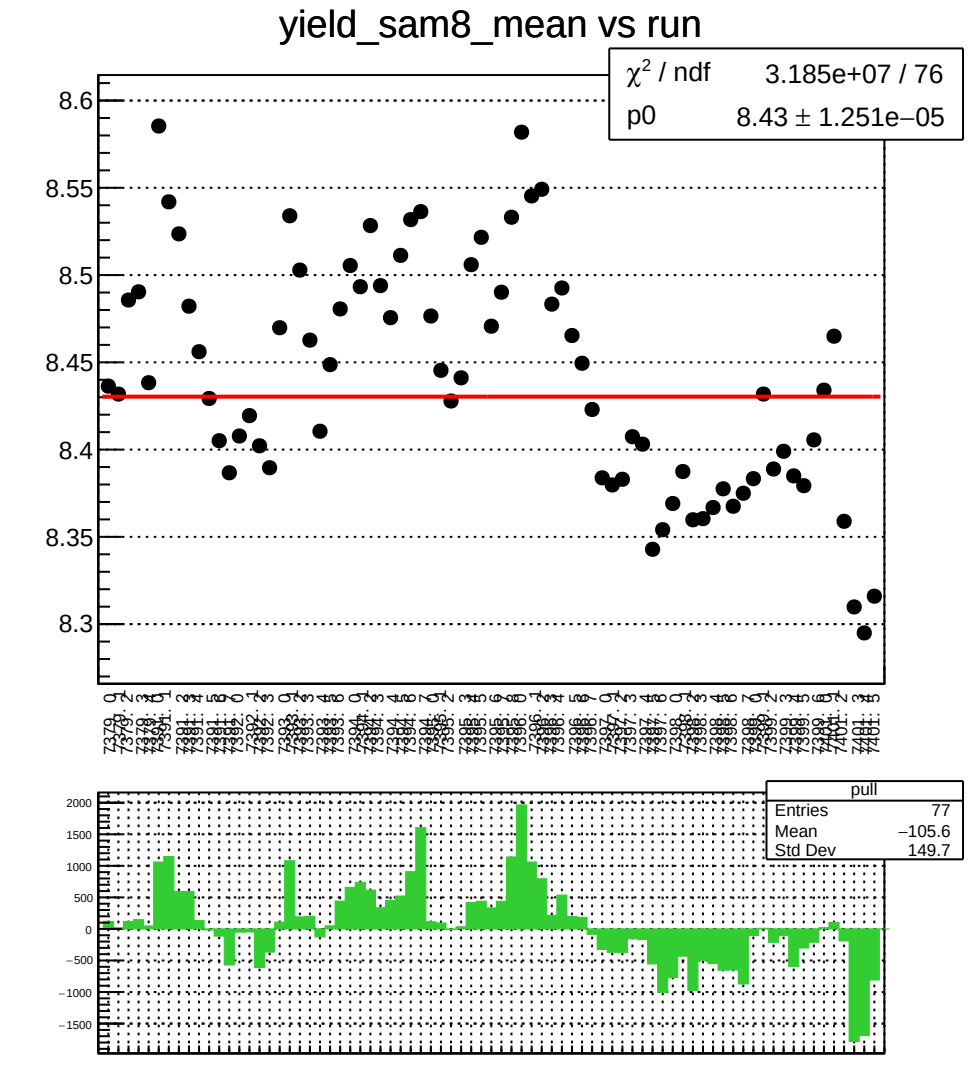

pull1D
Entries 77
Mean 1.399
Std Dev 5.891
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

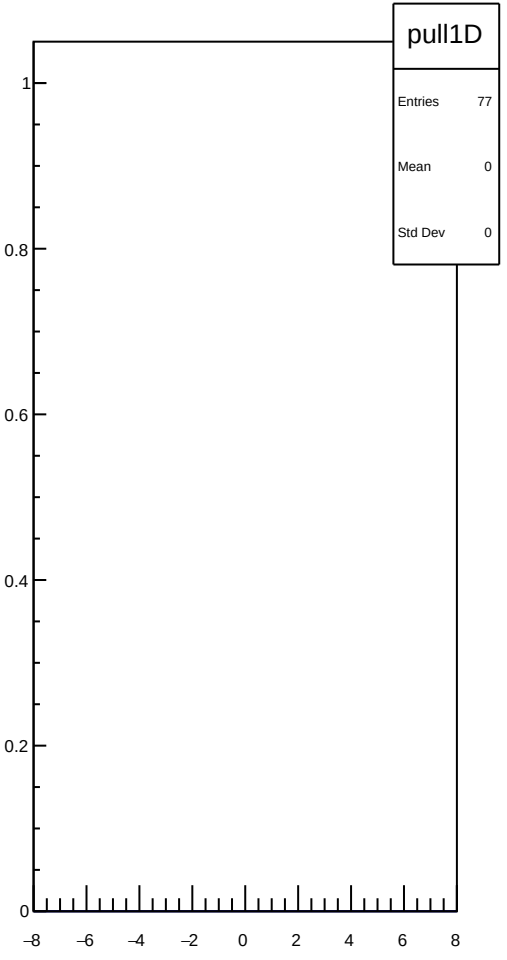

yield_sam6_rms vs run
χ^2 / ndf 1.28e+05 / 76
p0 0.01726 ± 1.471e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

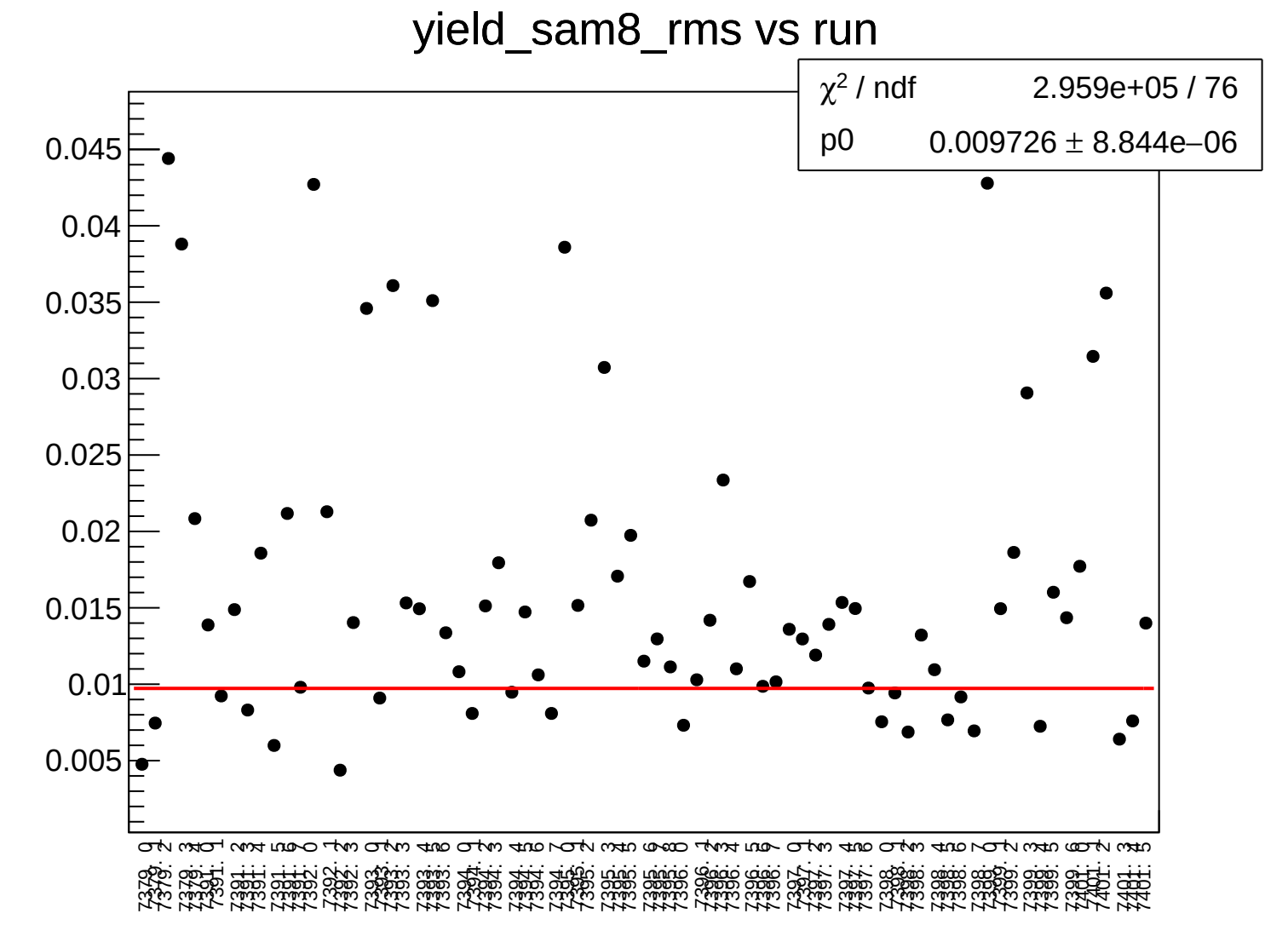

yield_sam7_mean vs run
χ² / ndf 2.345e+07 / 76
p0 2.381± 3.301e−06
2.46
2.44
2.42
2.4
2.38
2.36
2.34
pull
Entries 77
Mean −216.8
Std Dev 259.7
1500
1000
500
0
−500
−1000
−1500

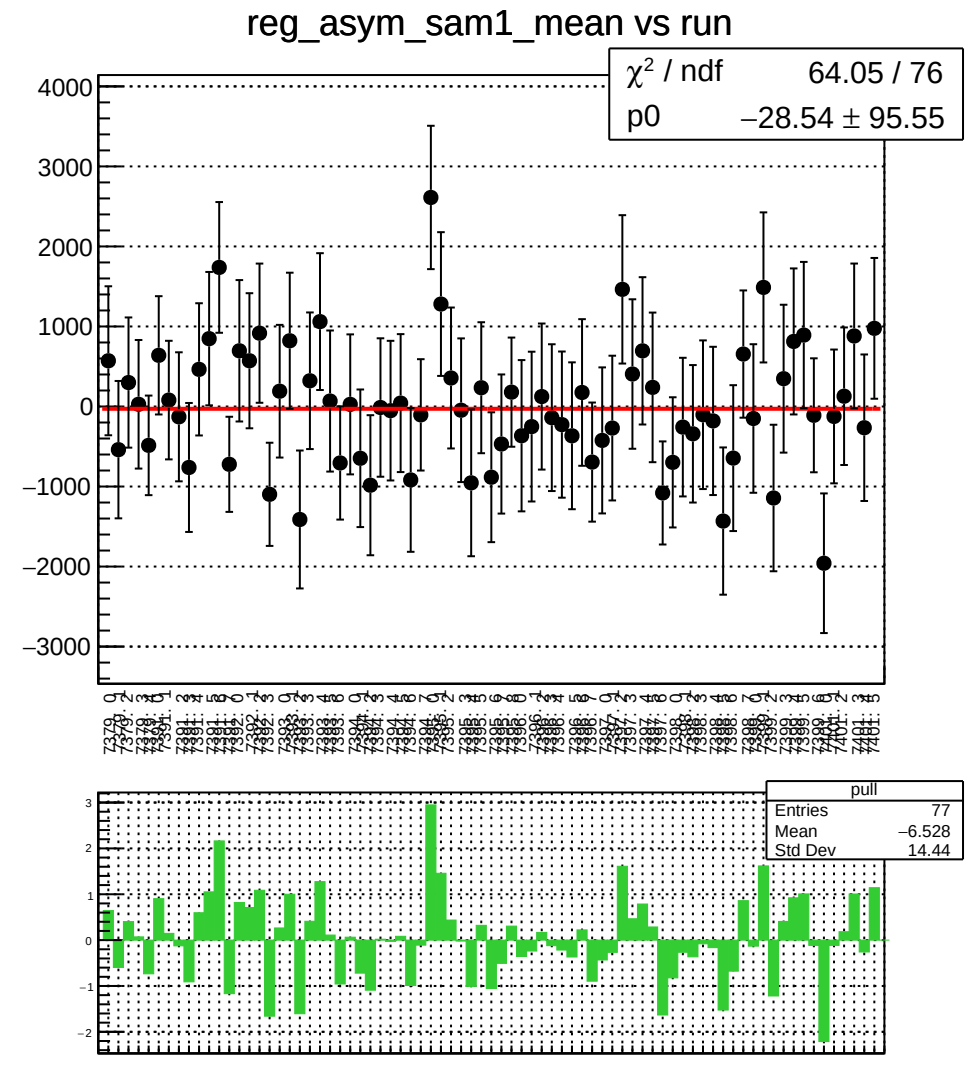

pull1D
Entries 77
Mean 2.855
Std Dev 0.375
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

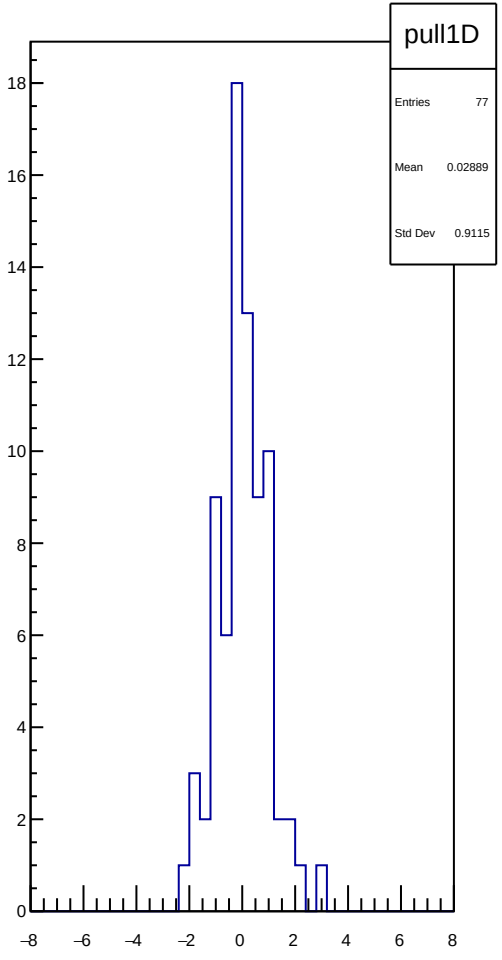

yield_sam7_rms vs run
χ^2 / ndf 3.04e+05 / 76
p0 0.002558 ± 2.334e−06
0.01
0.008
0.006
0.004
0.002

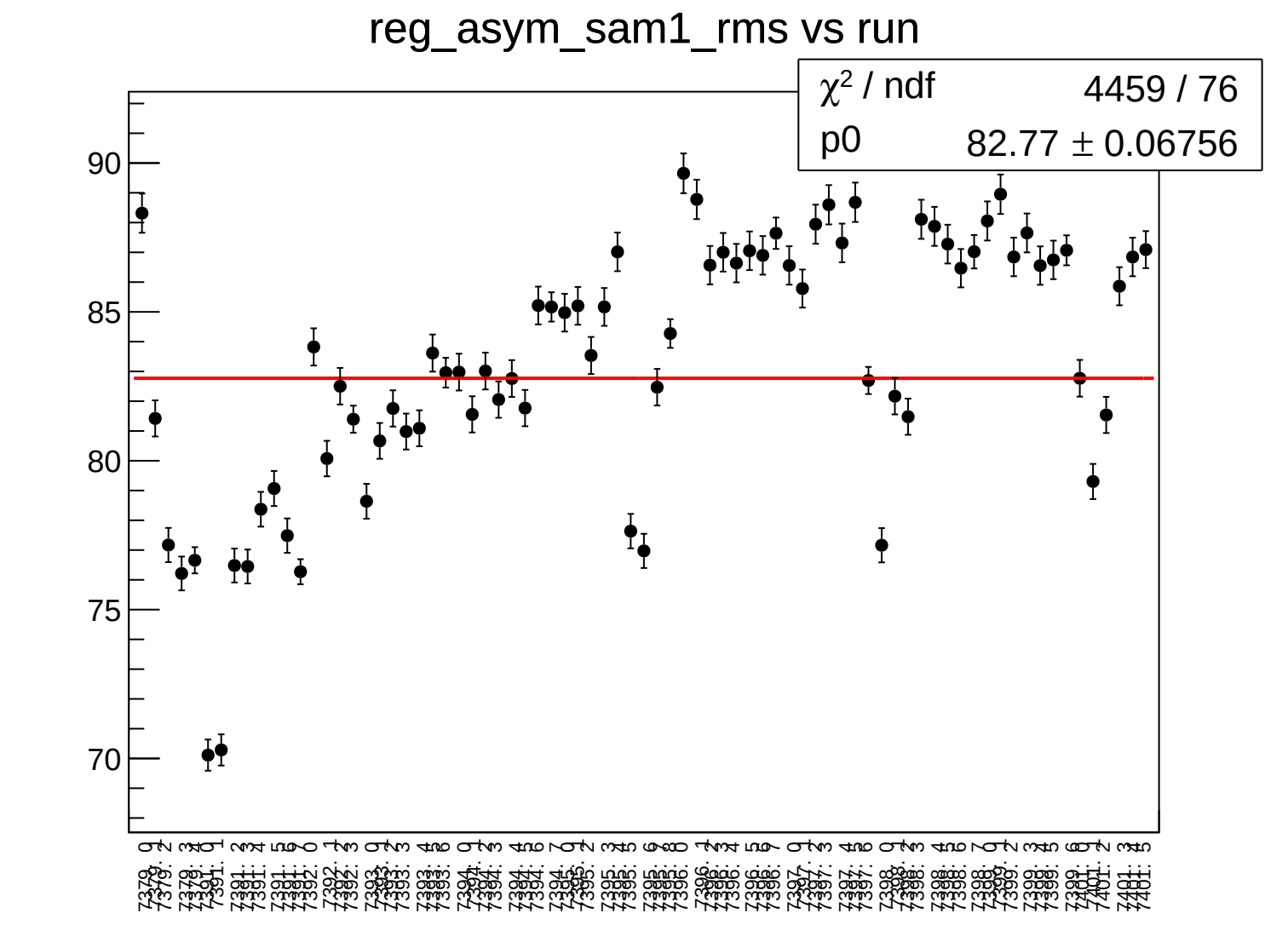

yield_sam8_mean vs run
χ² / ndf 3.185e+07 / 76
p0 8.43 ± 1.251e−05
8.6
8.55
8.5
8.45
8.4
8.35
8.3
pull
Entries 77
Mean −105.6
Std Dev 149.7
2000
1500
1000
500
0
−500
−1000
−1500

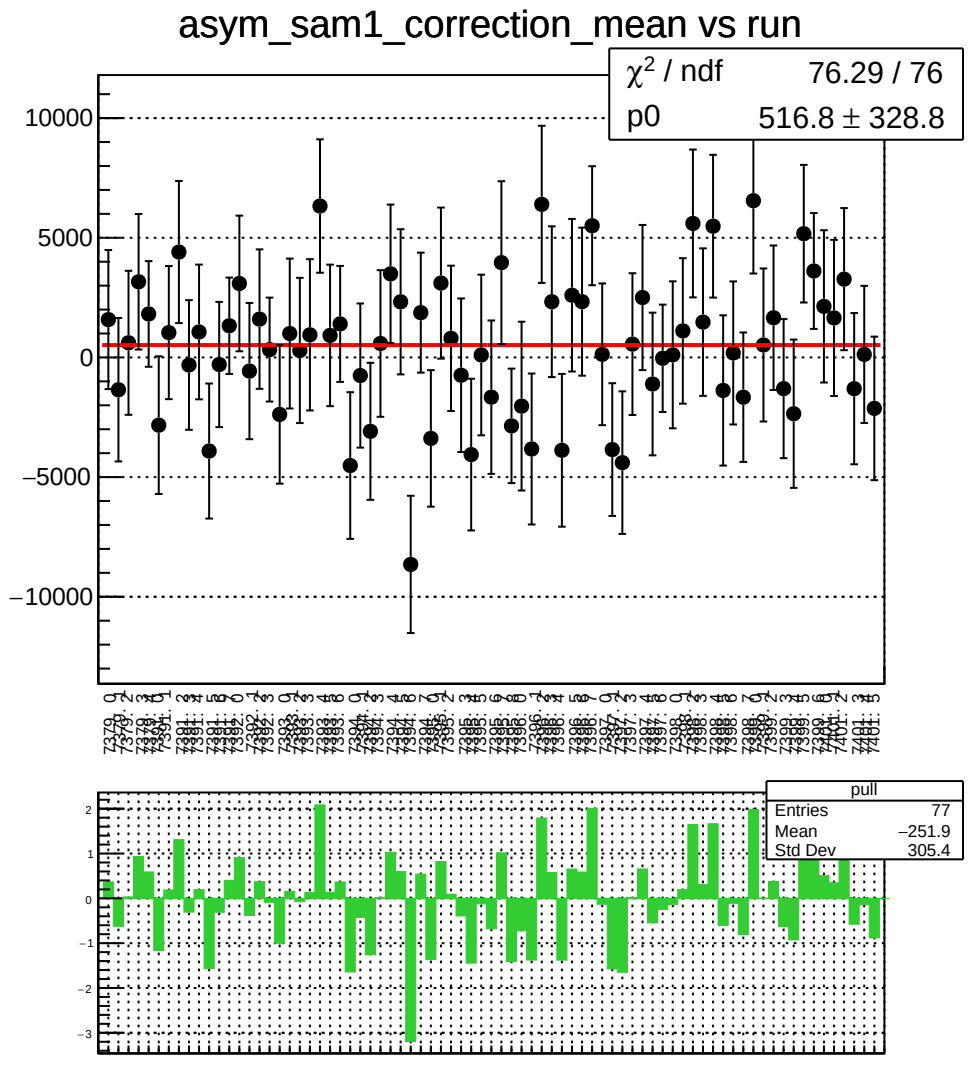

pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

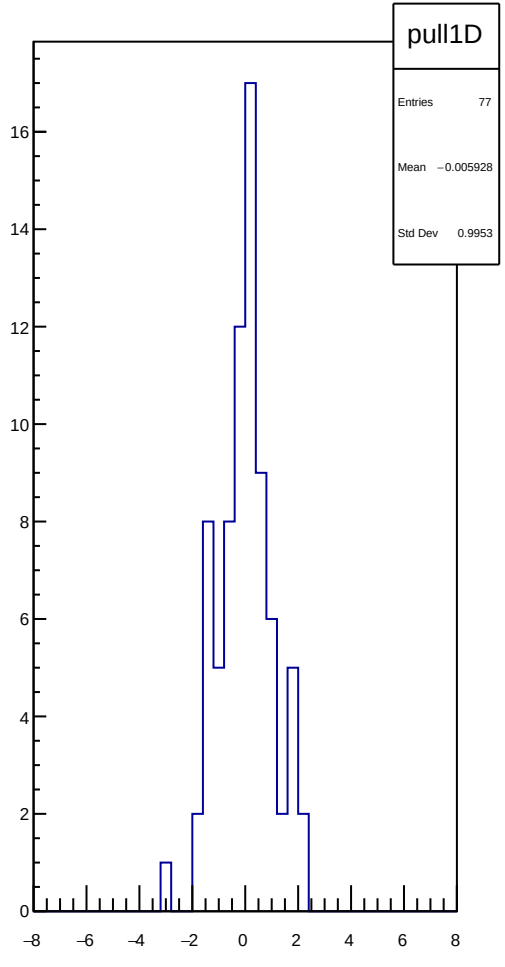

yield_sam8_rms vs run
χ^2 / ndf 2.959e+05 / 76
p0 0.009726 ± 8.844e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

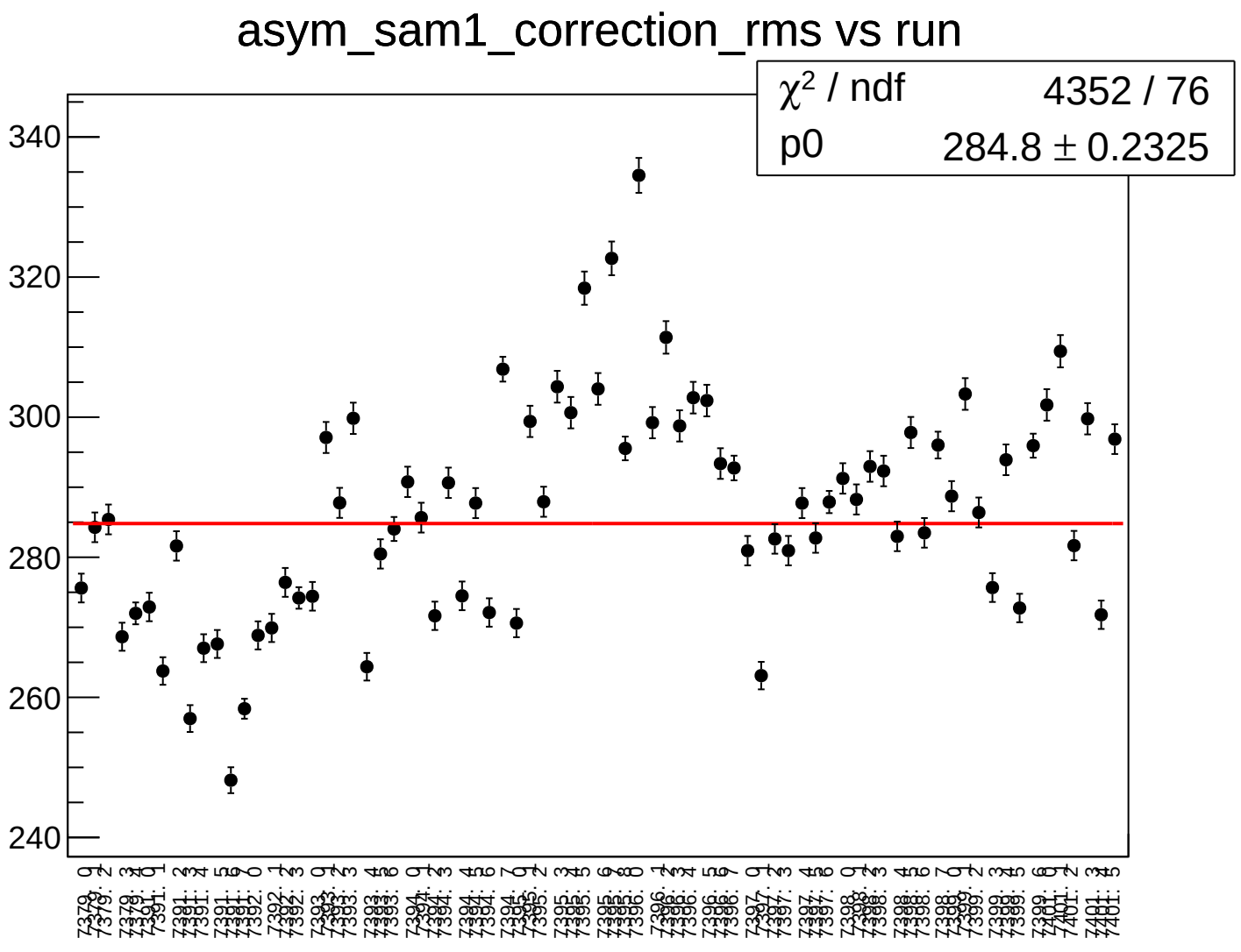

reg_asym_sam1_mean vs run
χ² / ndf 64.05 / 76
p0 −28.54 ± 95.55
pull
Entries 77
Mean −6.528
Std Dev 14.44

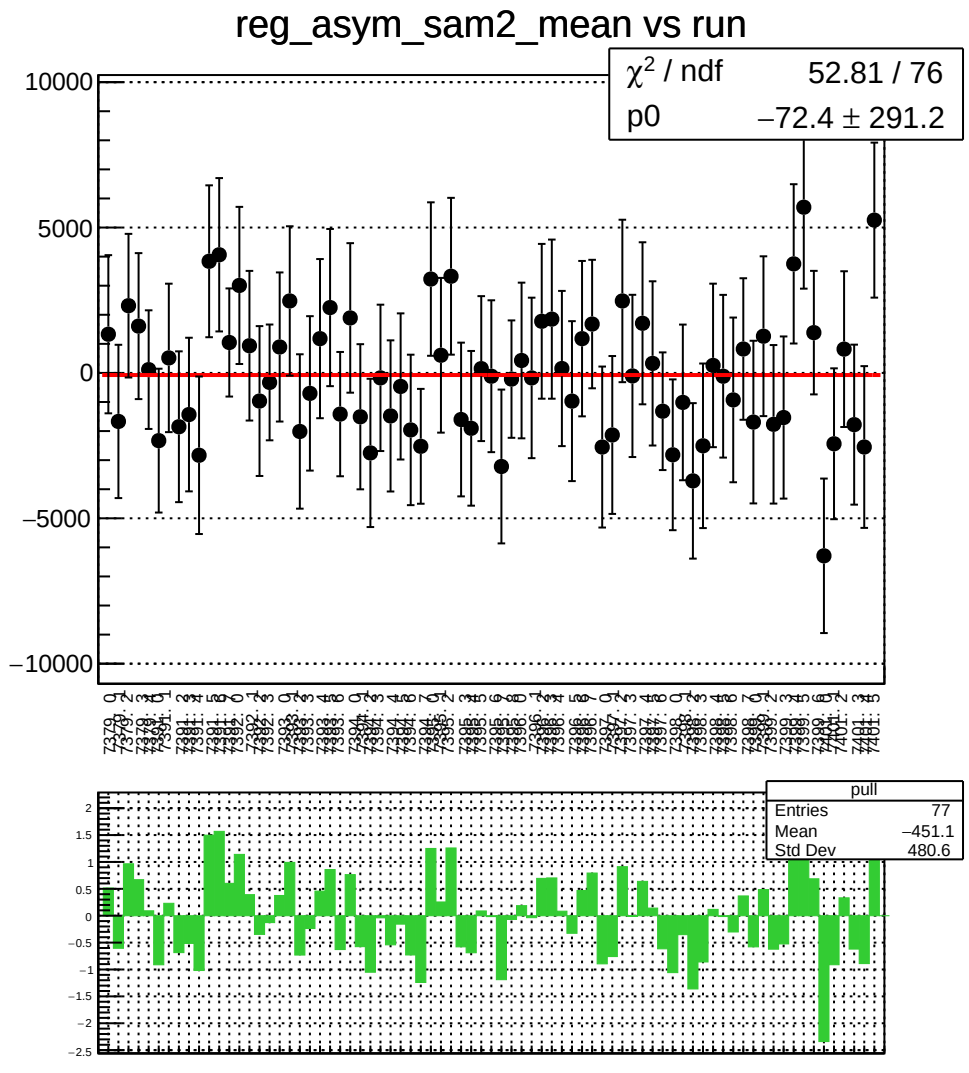

pull1D
Entries 77
Mean 0.02889
Std Dev 0.9115

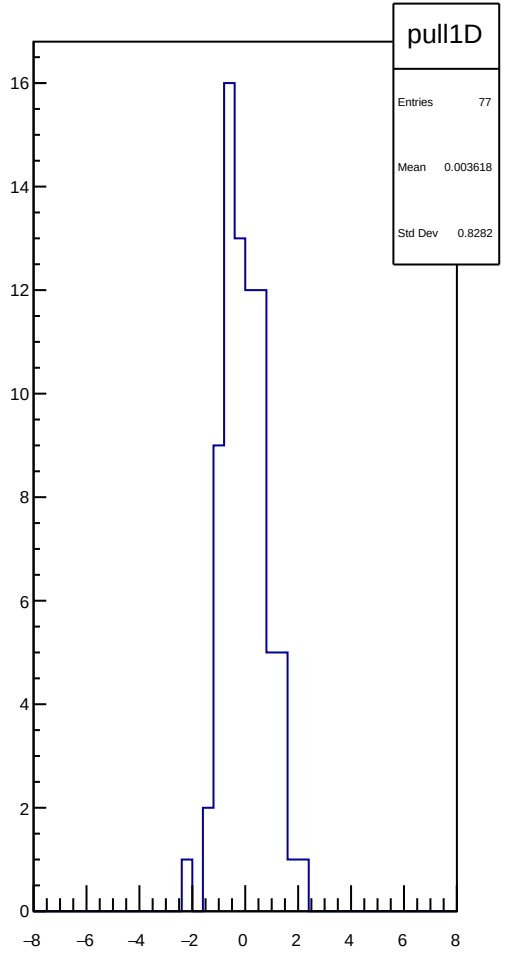

reg_asym_sam1_rms vs run
χ^2 / ndf 4459 / 76
p0 82.77 ± 0.06756
90
85
80
75
70

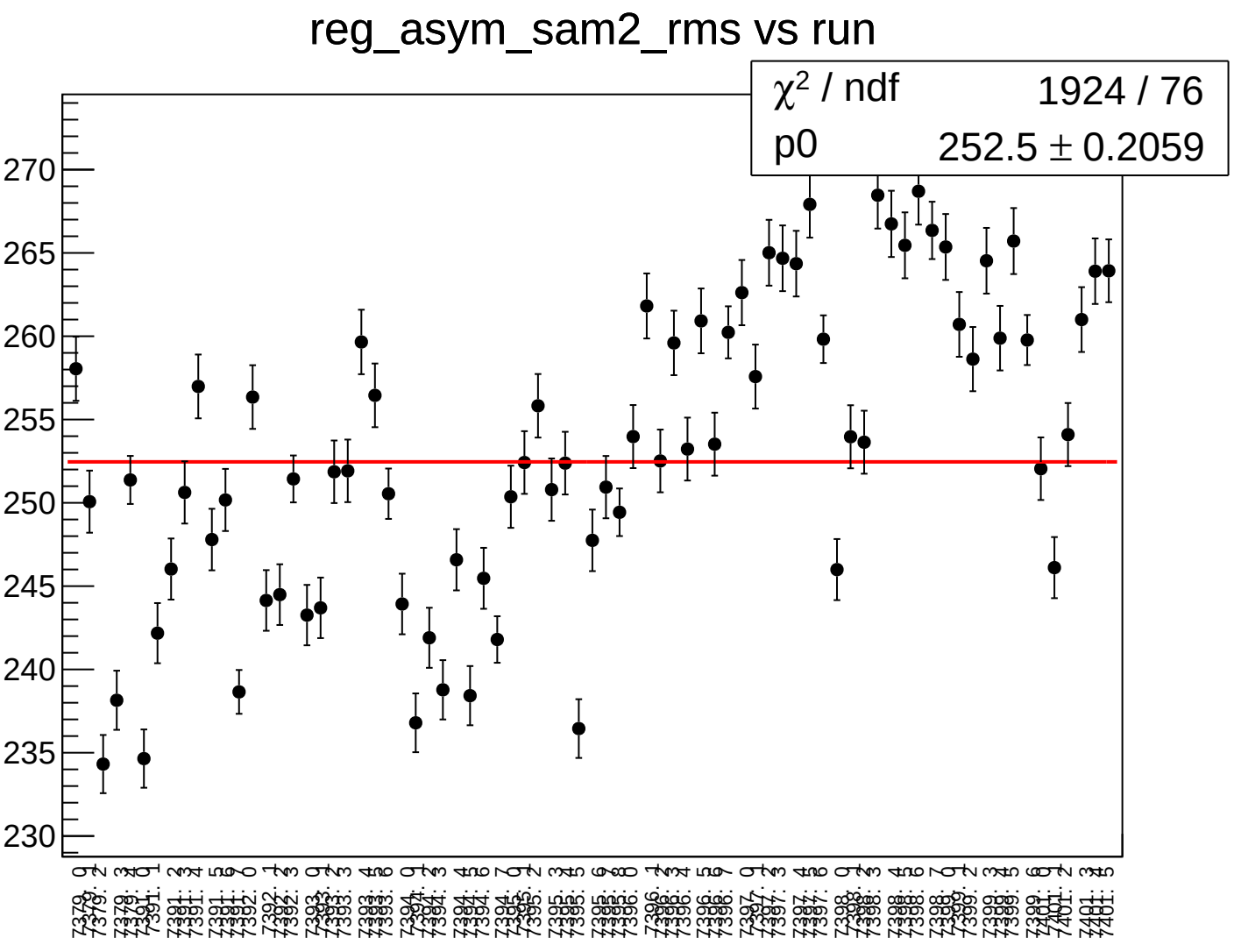

asym_sam1_correction_mean vs run
χ² / ndf 76.29 / 76
p0 516.8 ± 328.8
10000
5000
0
−5000
−10000
pull
Entries 77
Mean −251.9
Std Dev 305.4
2
1
0
−1
−2
−3

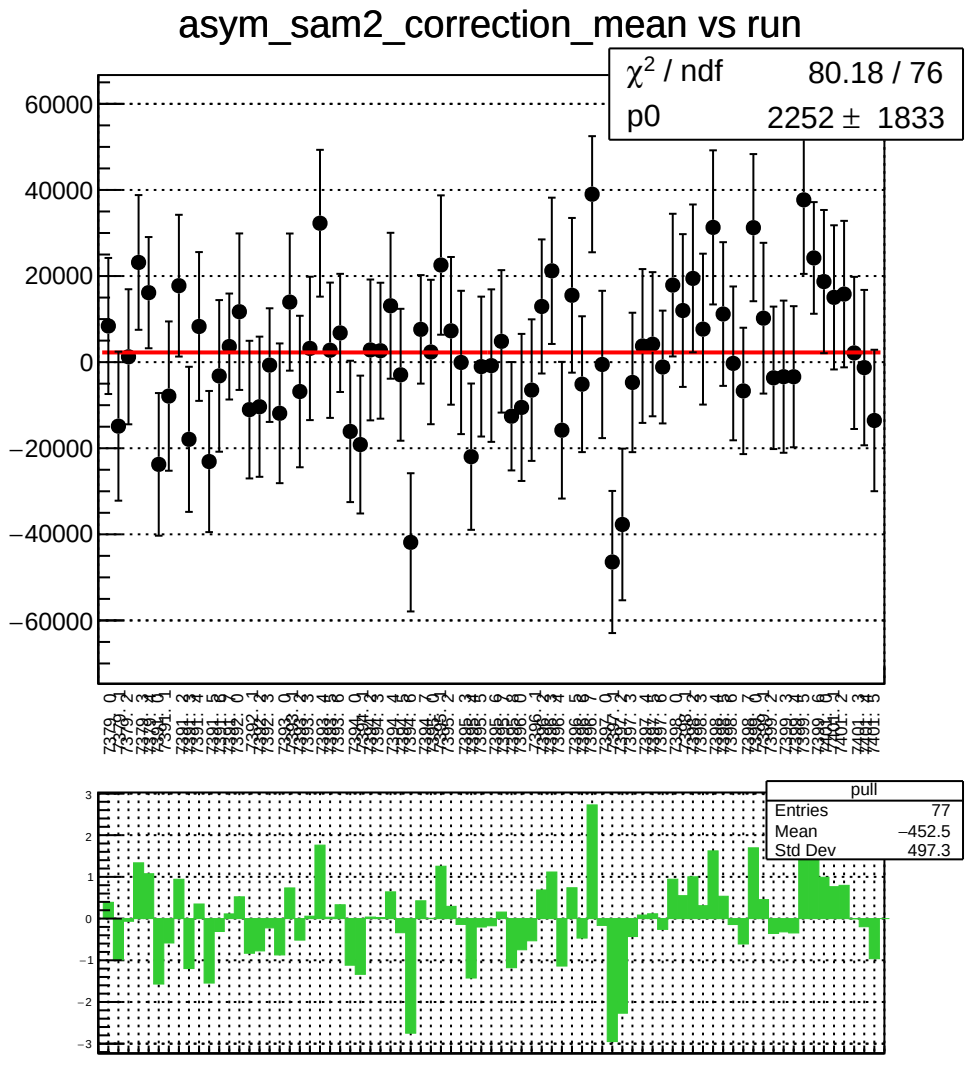

pull1D
Entries 77
Mean −0.005928
Std Dev 0.9953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

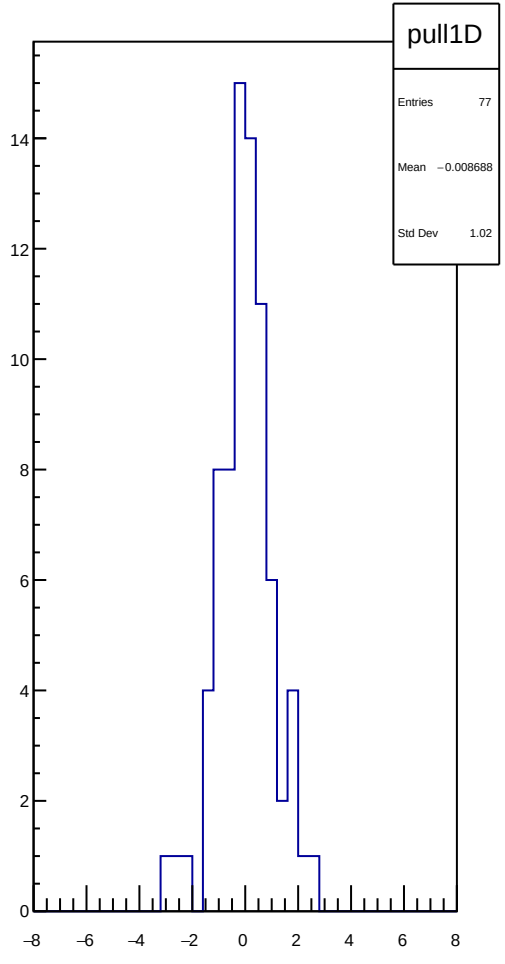

asym_sam1_correction_rms vs run
χ² / ndf 4352 / 76
p0 284.8 ± 0.2325
340
320
300
280
260
240

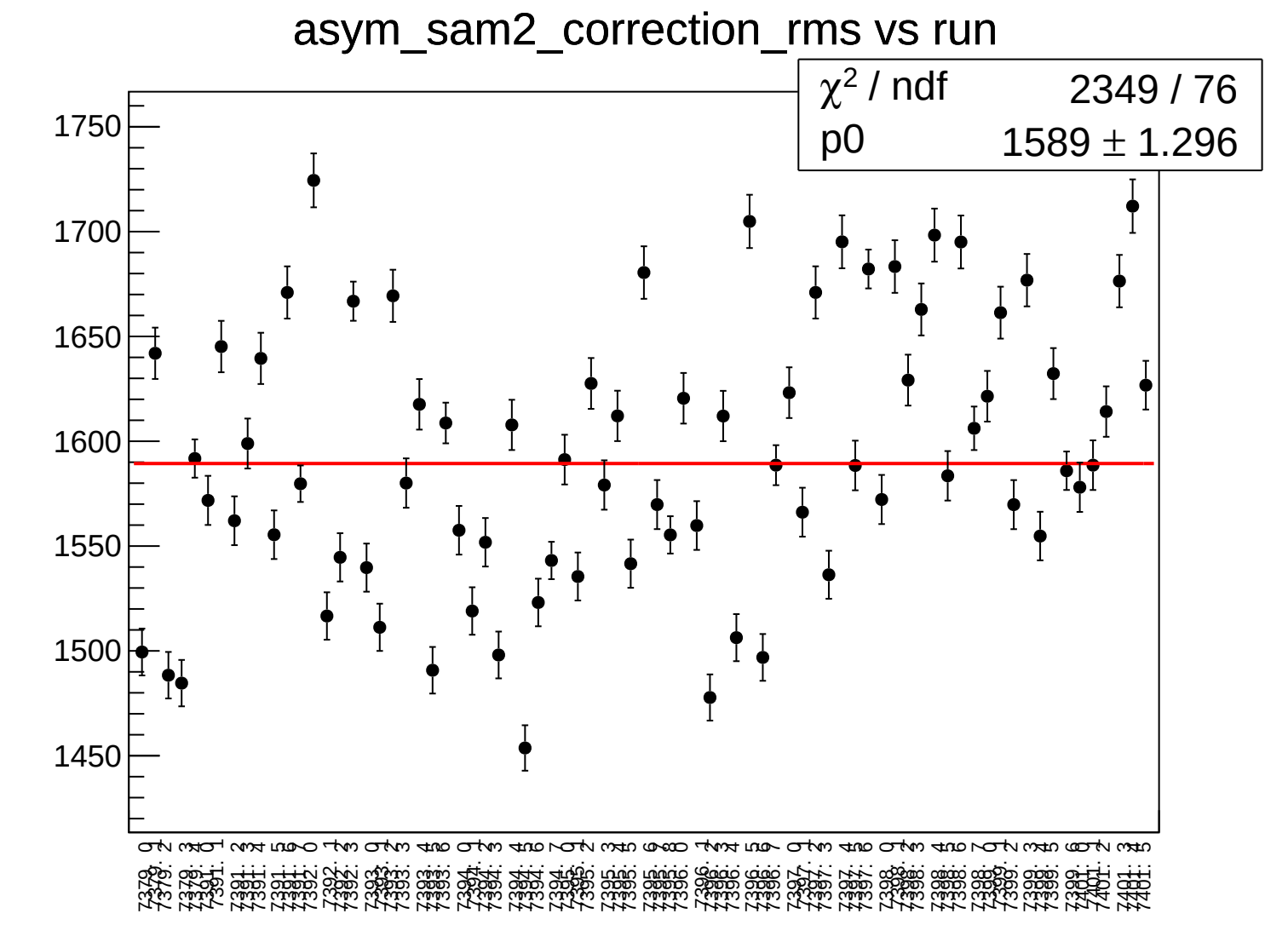

reg_asym_sam2_mean vs run
χ² / ndf 52.81 / 76
p0 −72.4 ± 291.2
10000
5000
0
−5000
−10000
pull
Entries 77
Mean −451.1
Std Dev 480.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

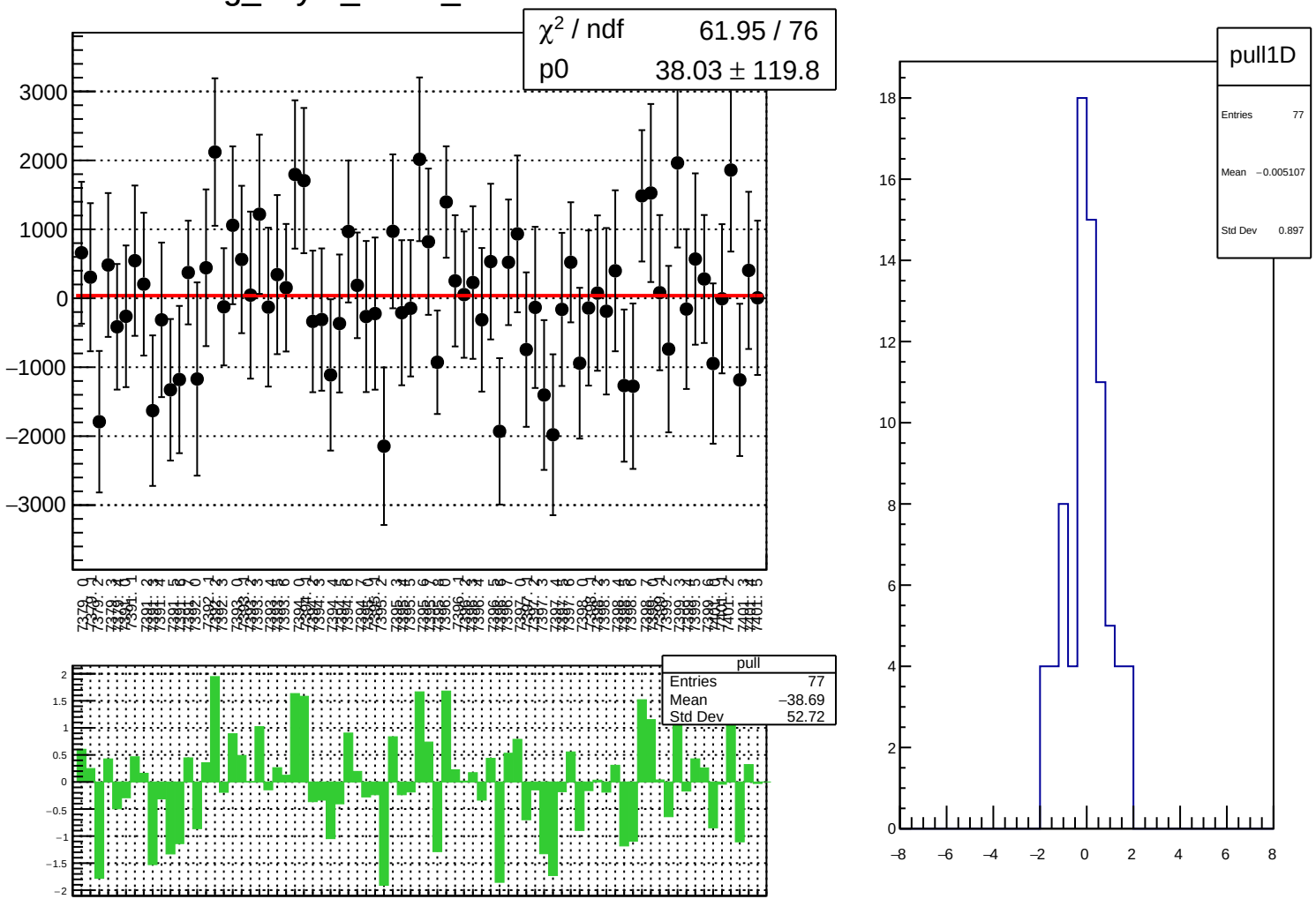

pull1D
Entries 77
Mean 0.003618
Std Dev 0.8282
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

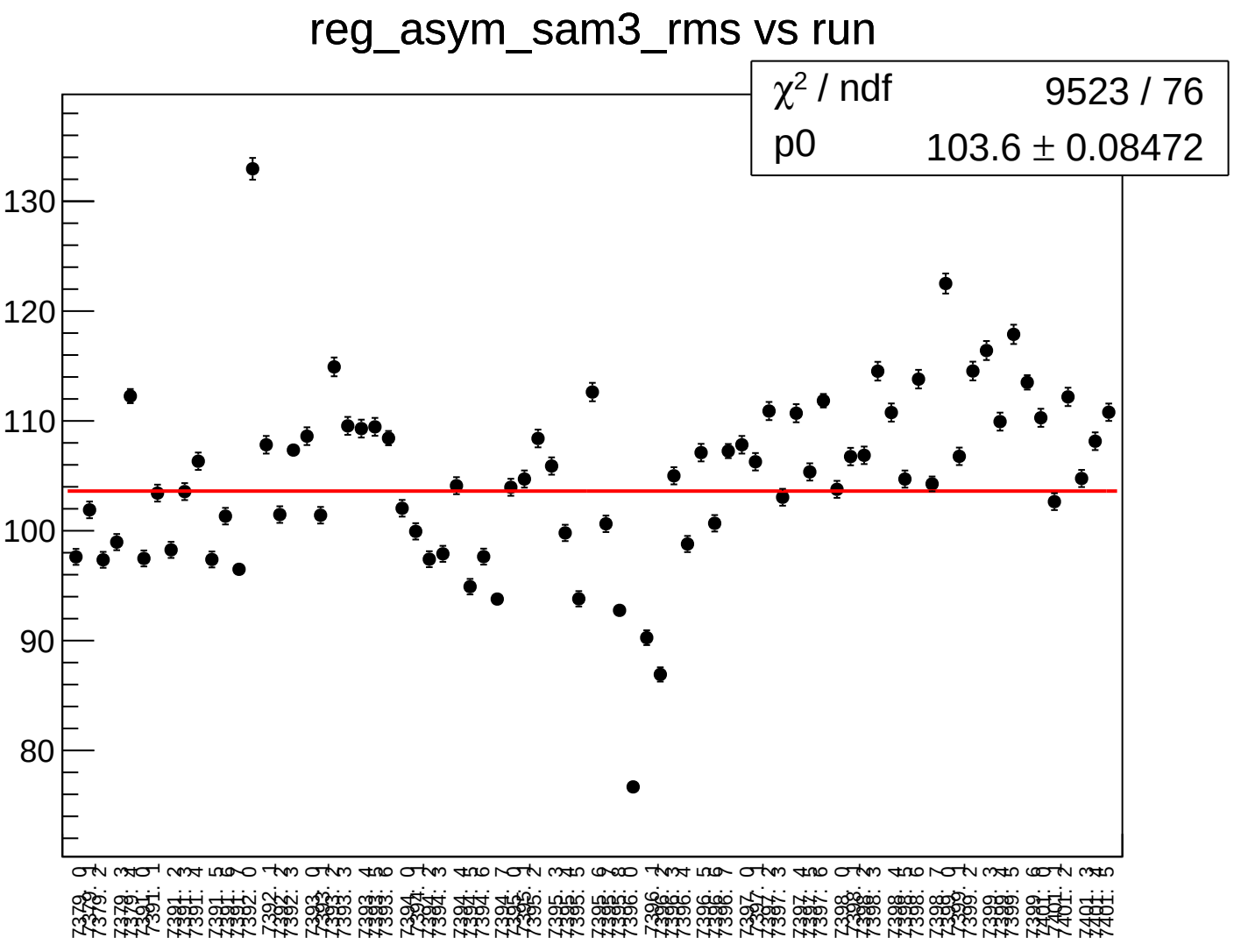

reg_asym_sam2_rms vs run
χ² / ndf 1924 / 76
p0 252.5 ± 0.2059
270
265
260
255
250
245
240
235
230

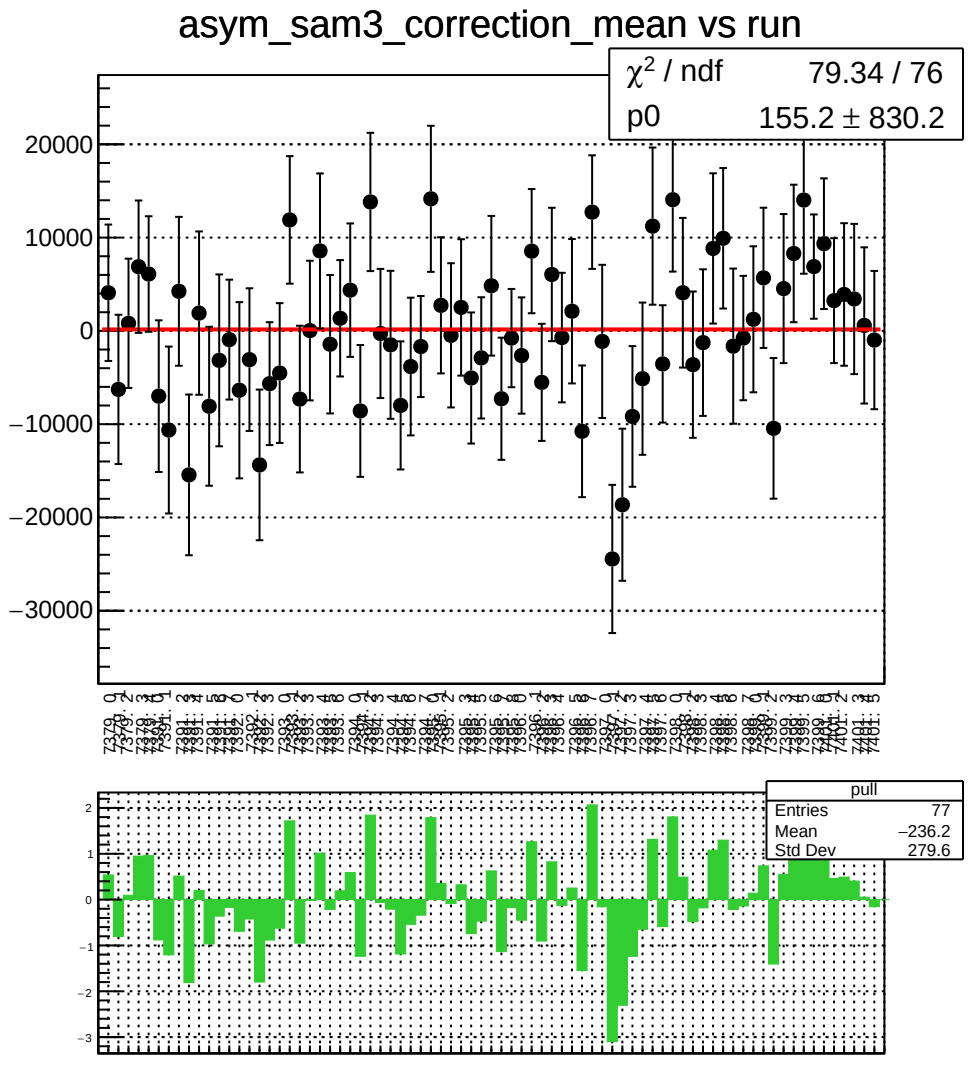

asym_sam2_correction_mean vs run
χ² / ndf 80.18 / 76
p0 2252 ± 1833
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 77
Mean −452.5
Std Dev 497.3
3
2
1
0
−1
−2
−3

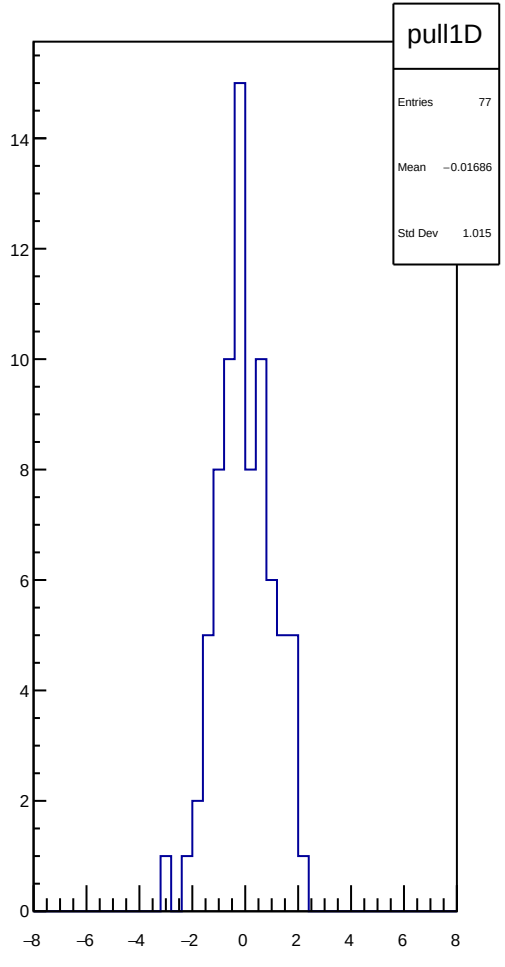

pull1D
Entries 77
Mean −0.008688
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

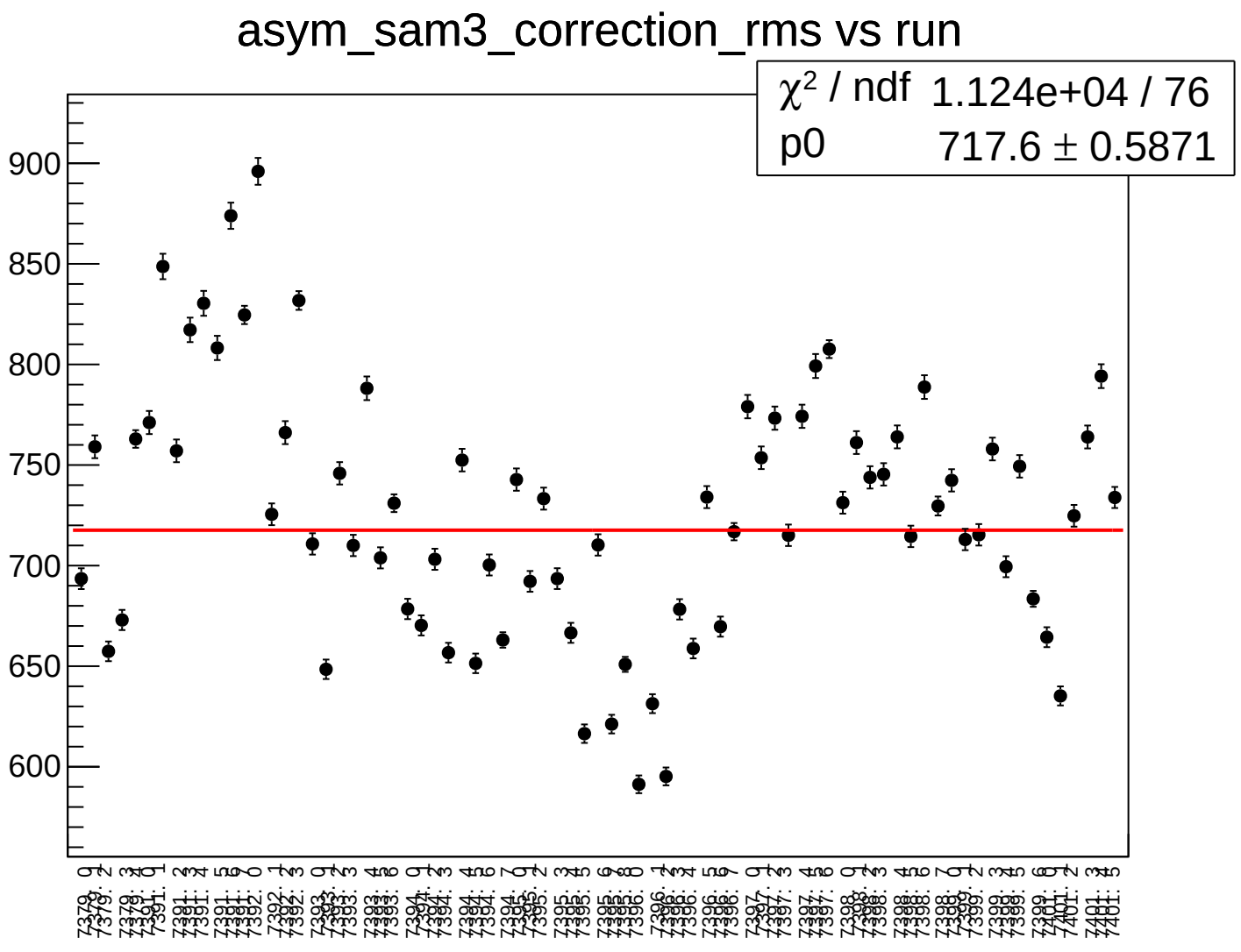

asym_sam2_correction_rms vs run
χ² / ndf 2349 / 76
p0 1589 ± 1.296
1750
1700
1650
1600
1550
1500
1450

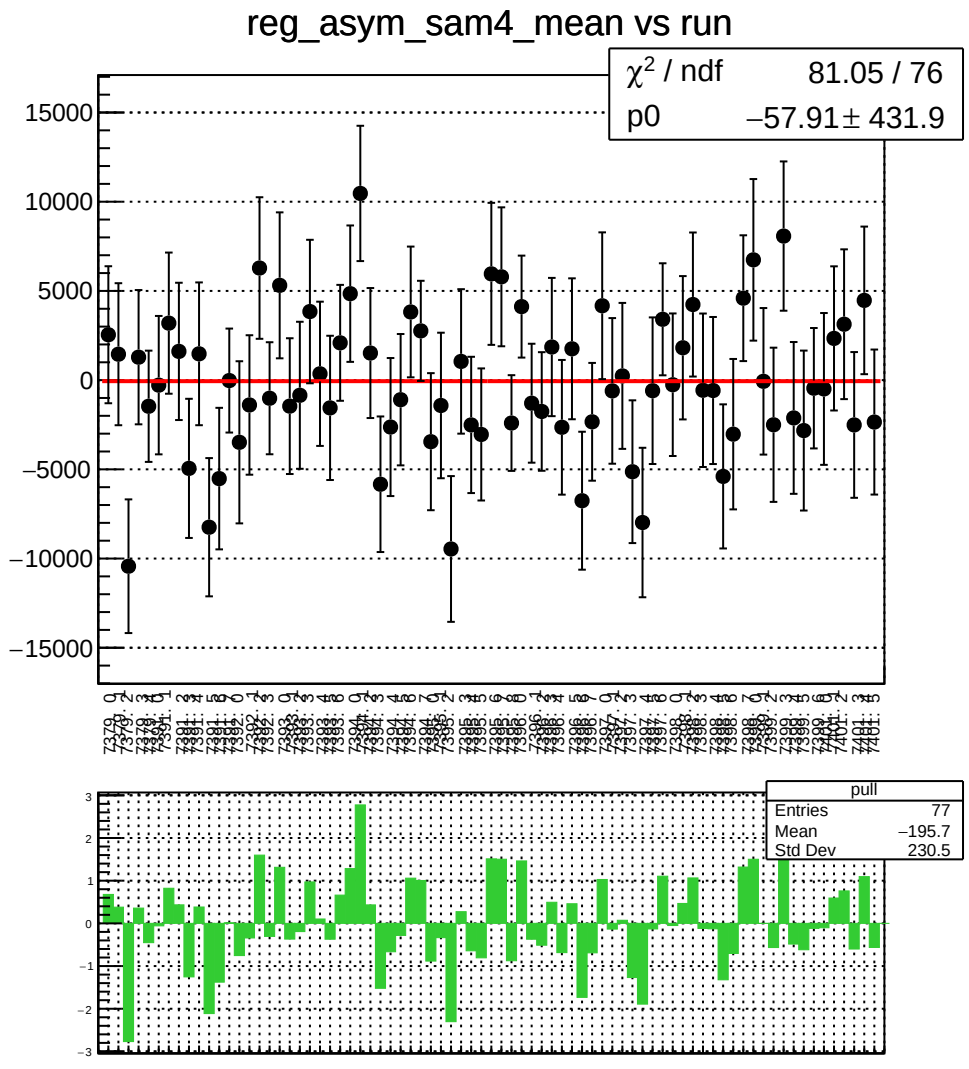

reg_asym_sam3_mean vs run
χ² / ndf 61.95 / 76
p0 38.03 ± 119.8
pull
Entries 77
Mean −38.69
Std Dev 52.72
pull1D
Entries 77
Mean −0.005107
Std Dev 0.897

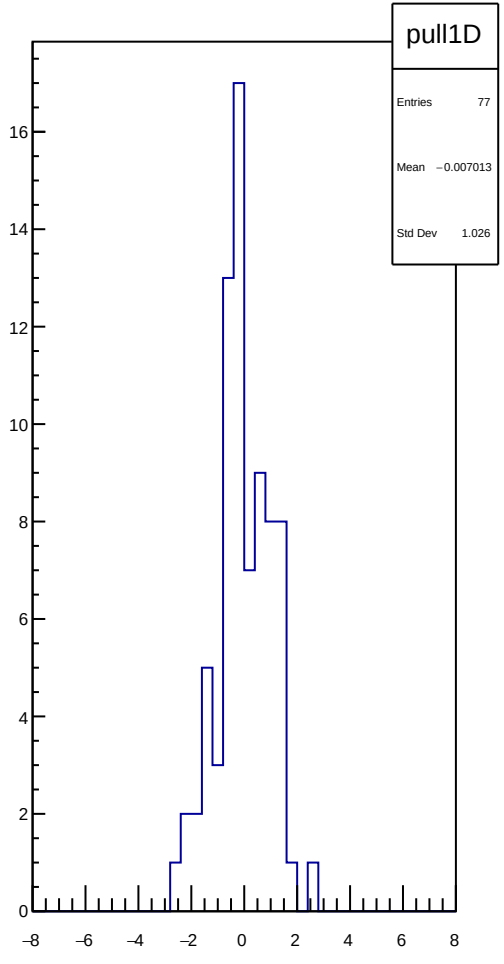

reg_asym_sam3_rms vs run
χ^2 / ndf 9523 / 76
p0 103.6 ± 0.08472
130
120
110
100
90
80

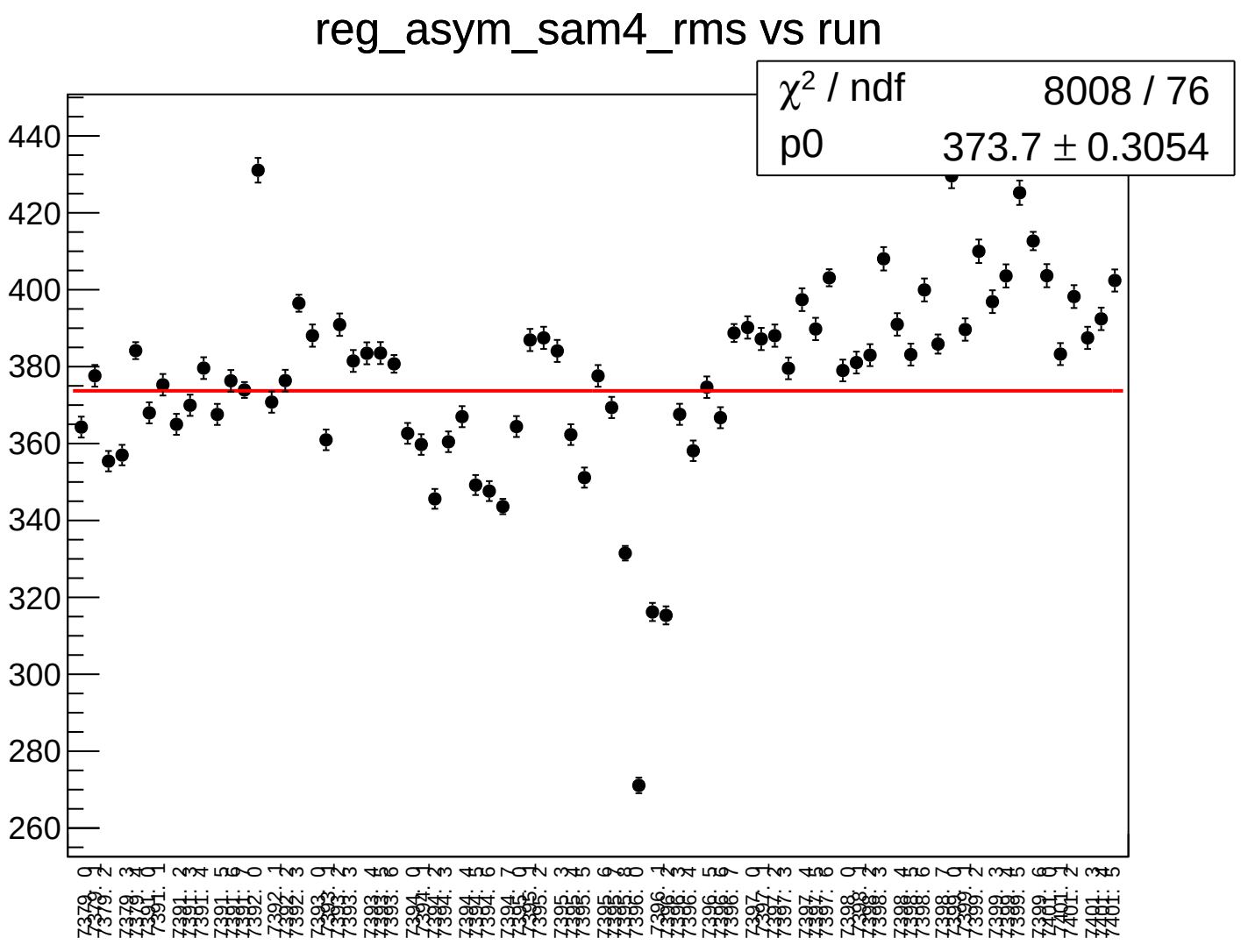

asym_sam3_correction_mean vs run
χ² / ndf 79.34 / 76
p0 155.2 ± 830.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 77
Mean −236.2
Std Dev 279.6
2
1
0
−1
−2
−3

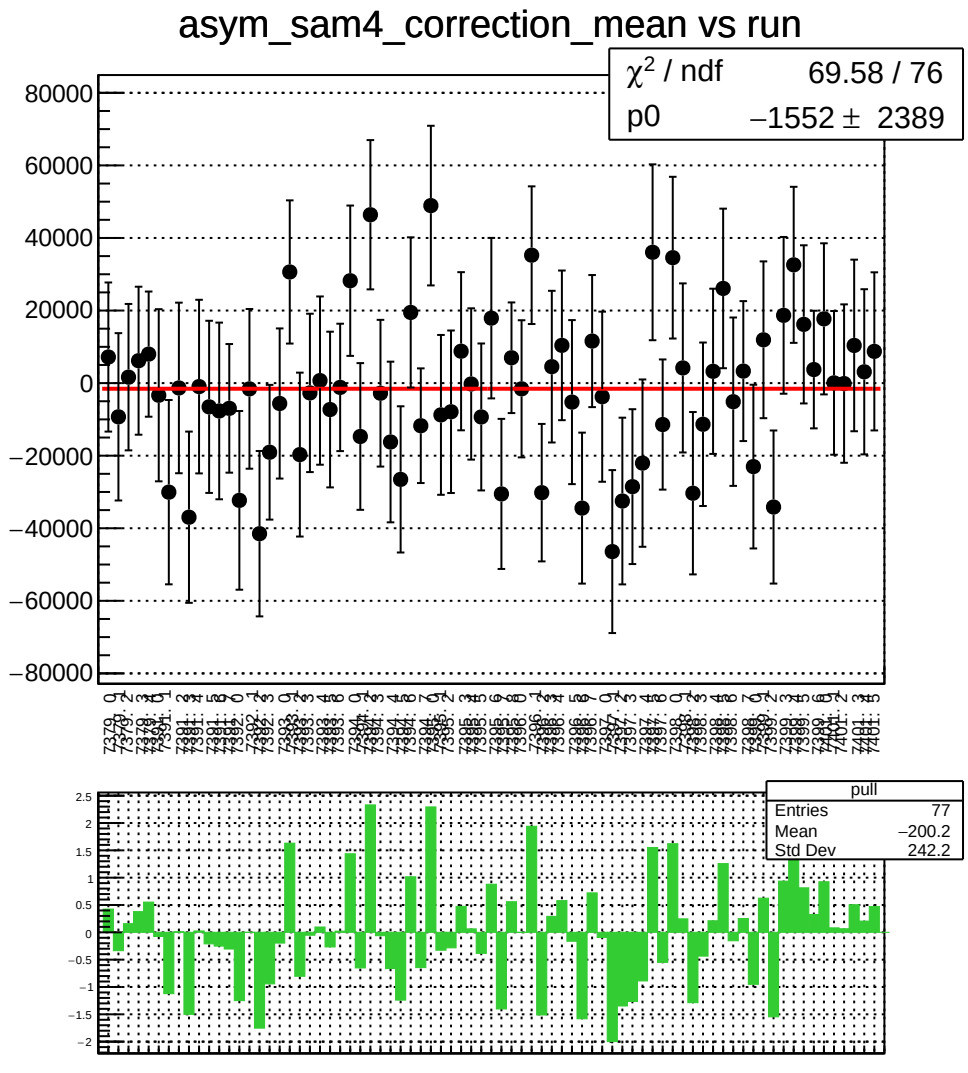

pull1D
Entries 77
Mean −0.01686
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

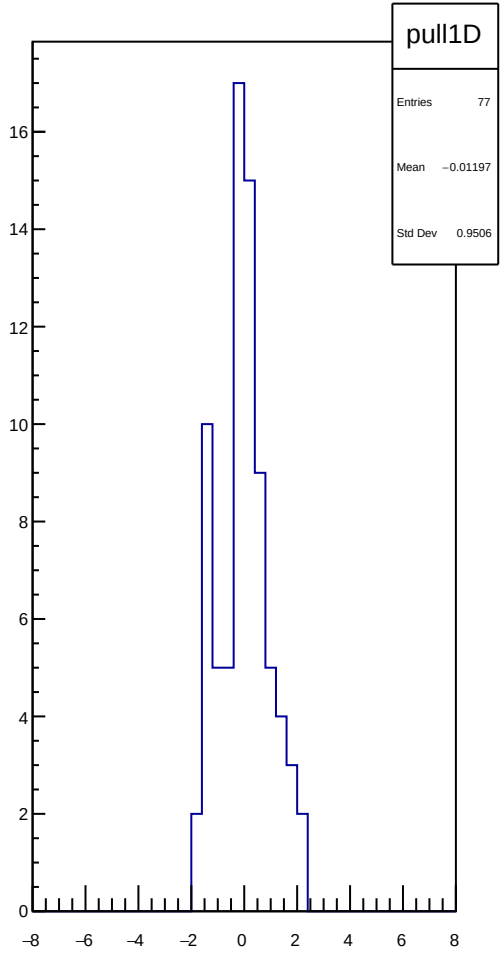

asym_sam3_correction_rms vs run
χ² / ndf 1.124e+04 / 76
p0 717.6 ± 0.5871
900
850
800
750
700
650
600

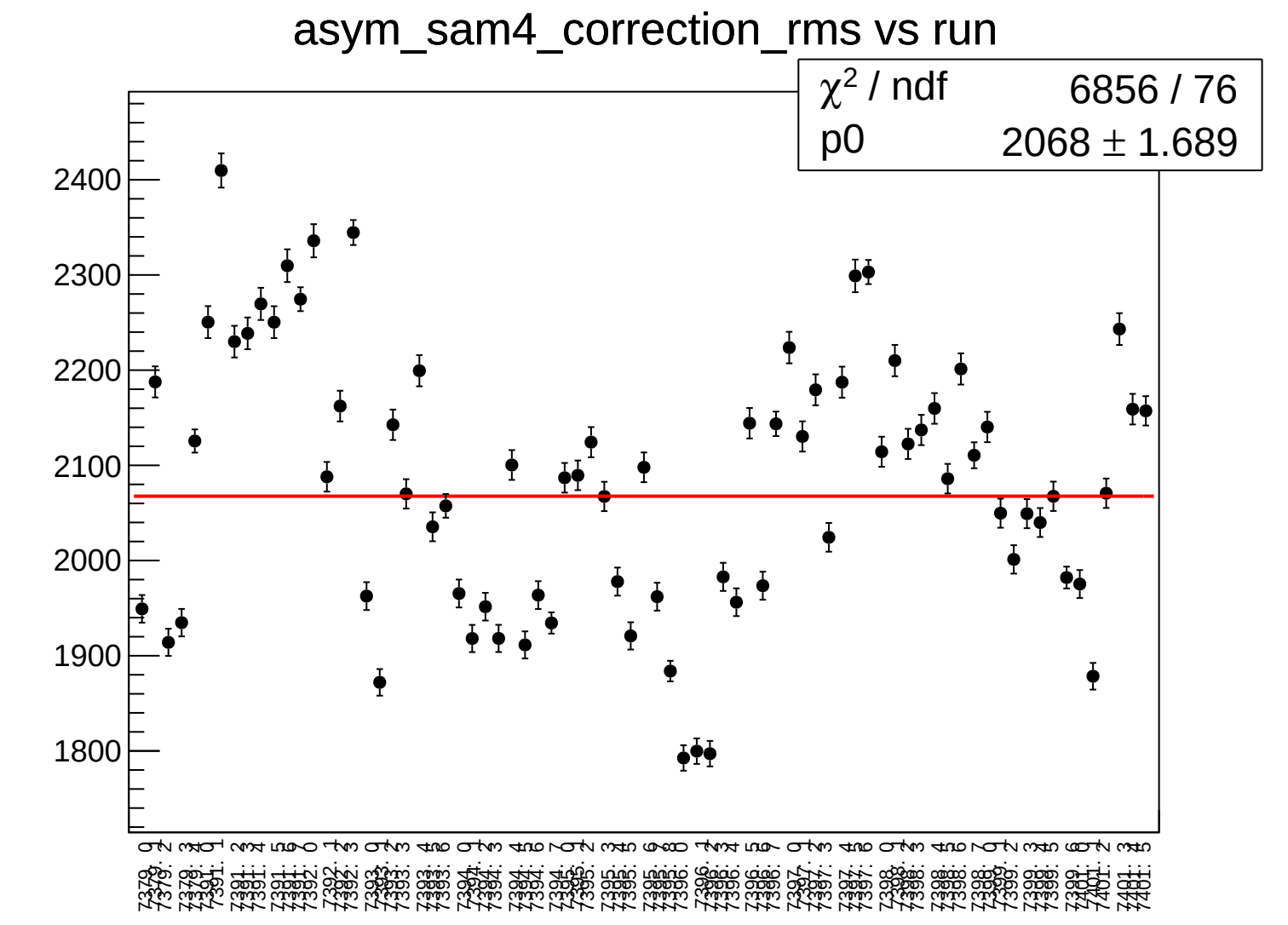

reg_asym_sam4_mean vs run
χ² / ndf 81.05 / 76
p0 −57.91 ± 431.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 77
Mean −195.7
Std Dev 230.5
3
2
1
0
−1
−2
−3

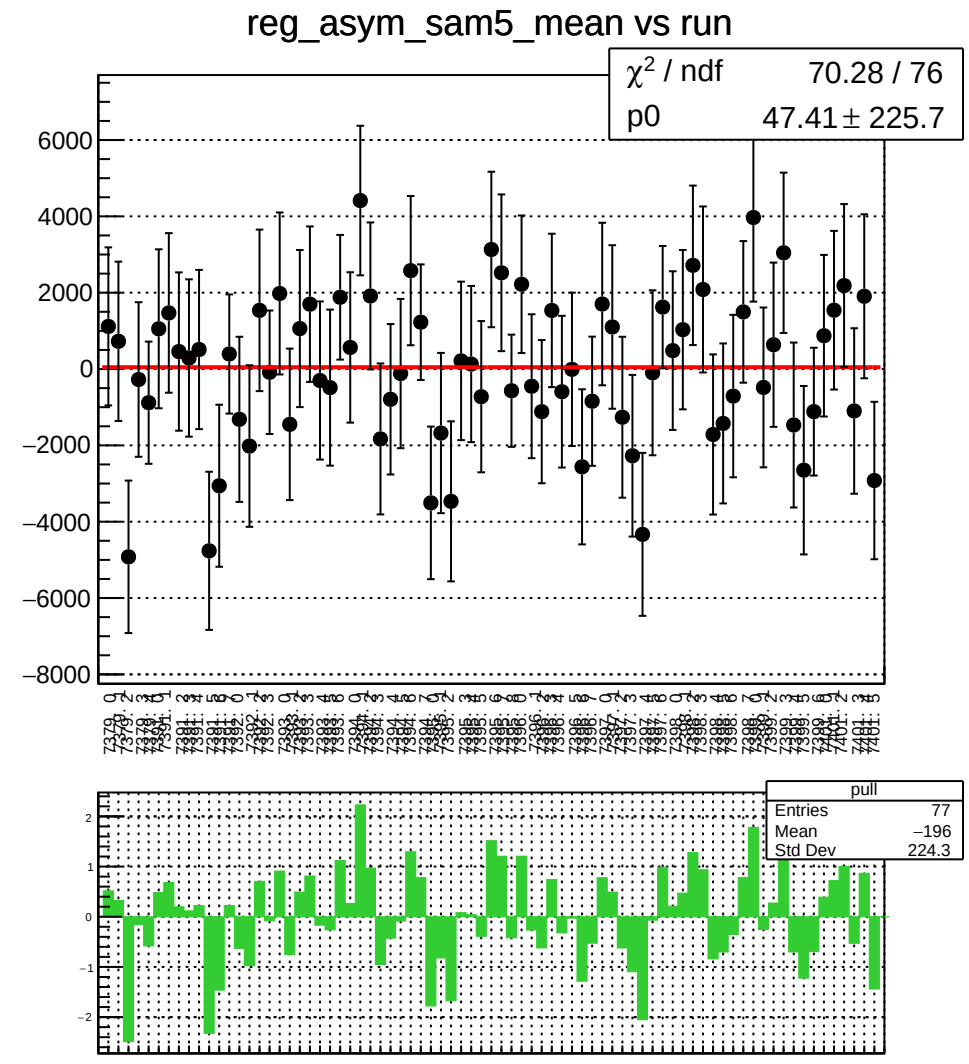

pull1D
Entries 77
Mean −0.007013
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

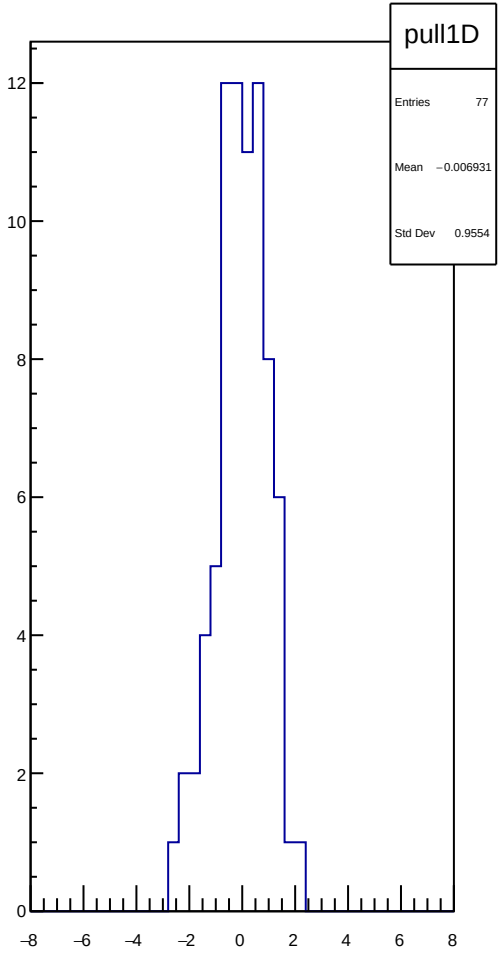

reg_asym_sam4_rms vs run
χ^2 / ndf 8008 / 76
p0 373.7 ± 0.3054
440
420
400
380
360
340
320
300
280
260

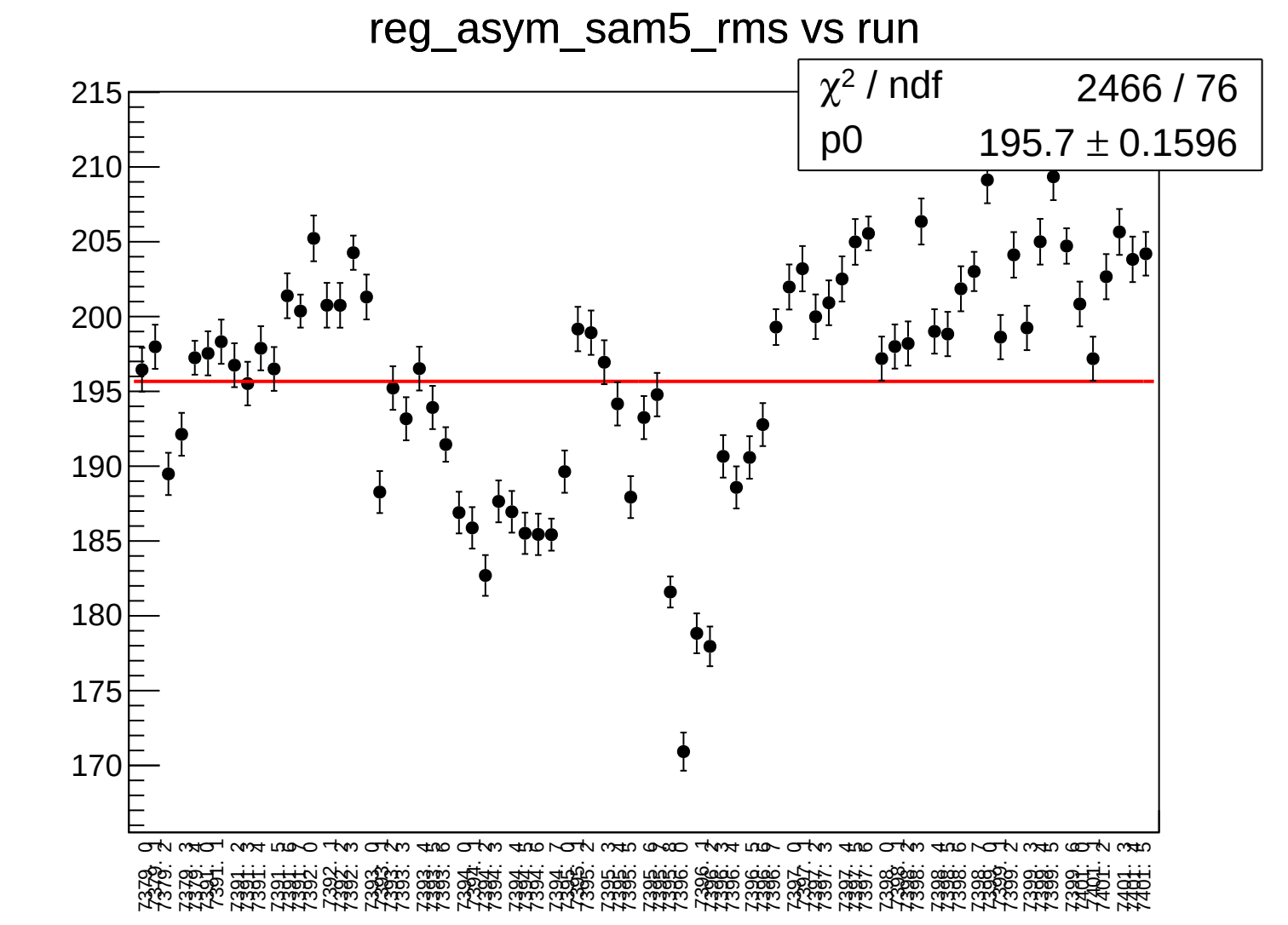

asym_sam4_correction_mean vs run
χ² / ndf 69.58 / 76
p0 −1552 ± 2389
pull
Entries 77
Mean −200.2
Std Dev 242.2

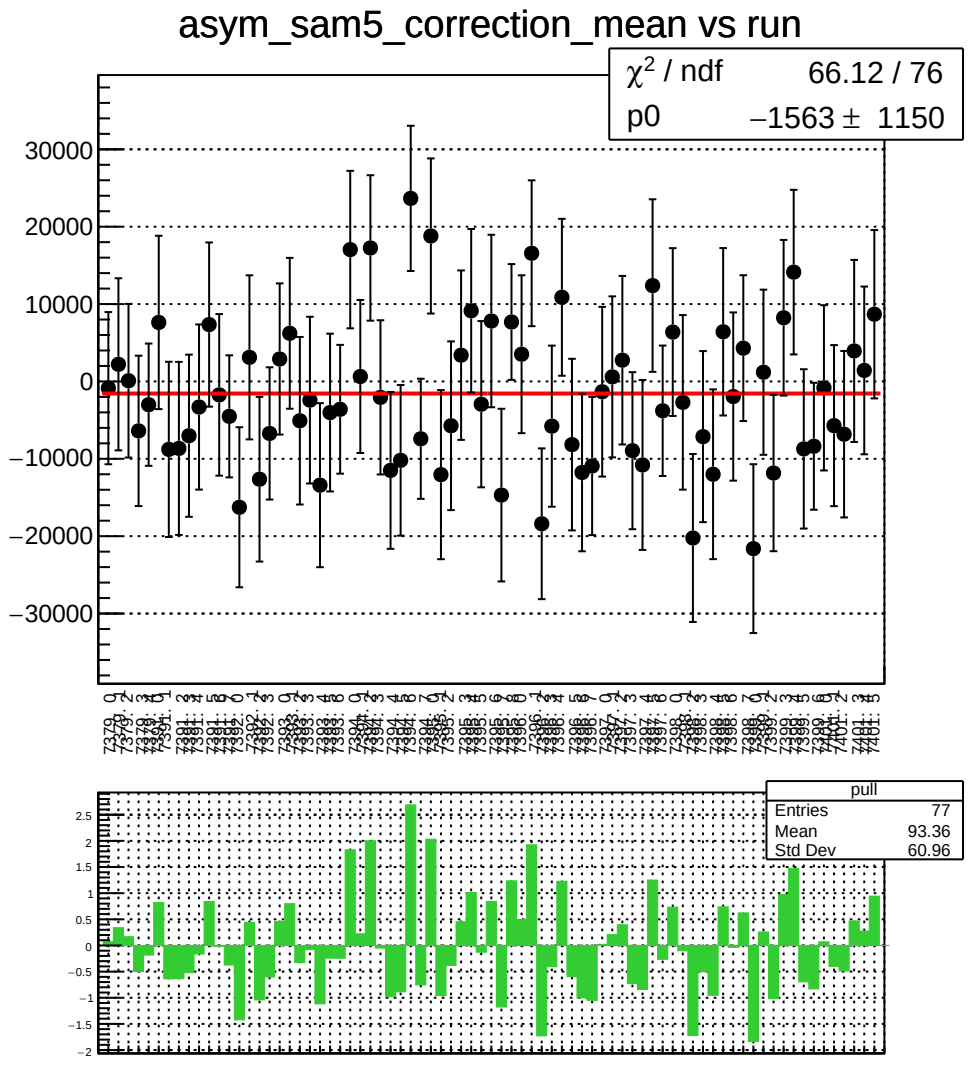

pull1D
Entries 77
Mean −0.01197
Std Dev 0.9506

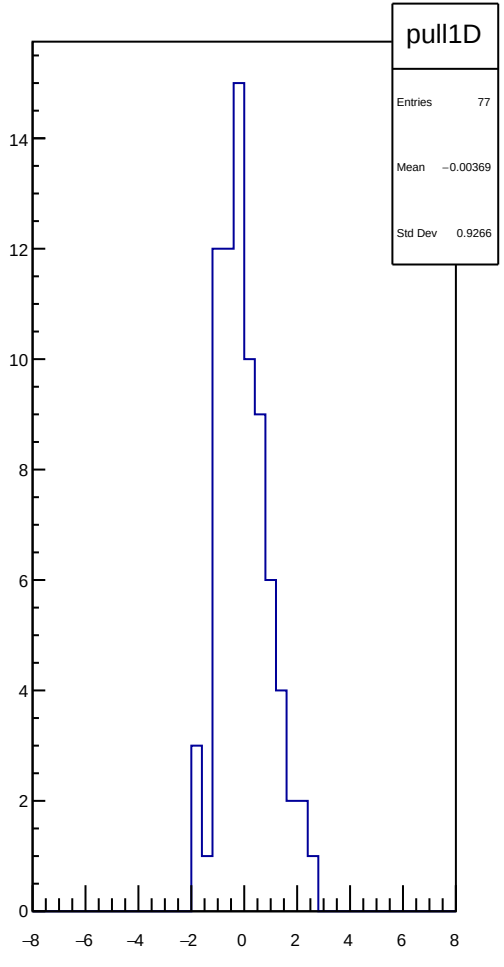

asym_sam4_correction_rms vs run
χ² / ndf 6856 / 76
p0 2068 ± 1.689
2400
2300
2200
2100
2000
1900
1800

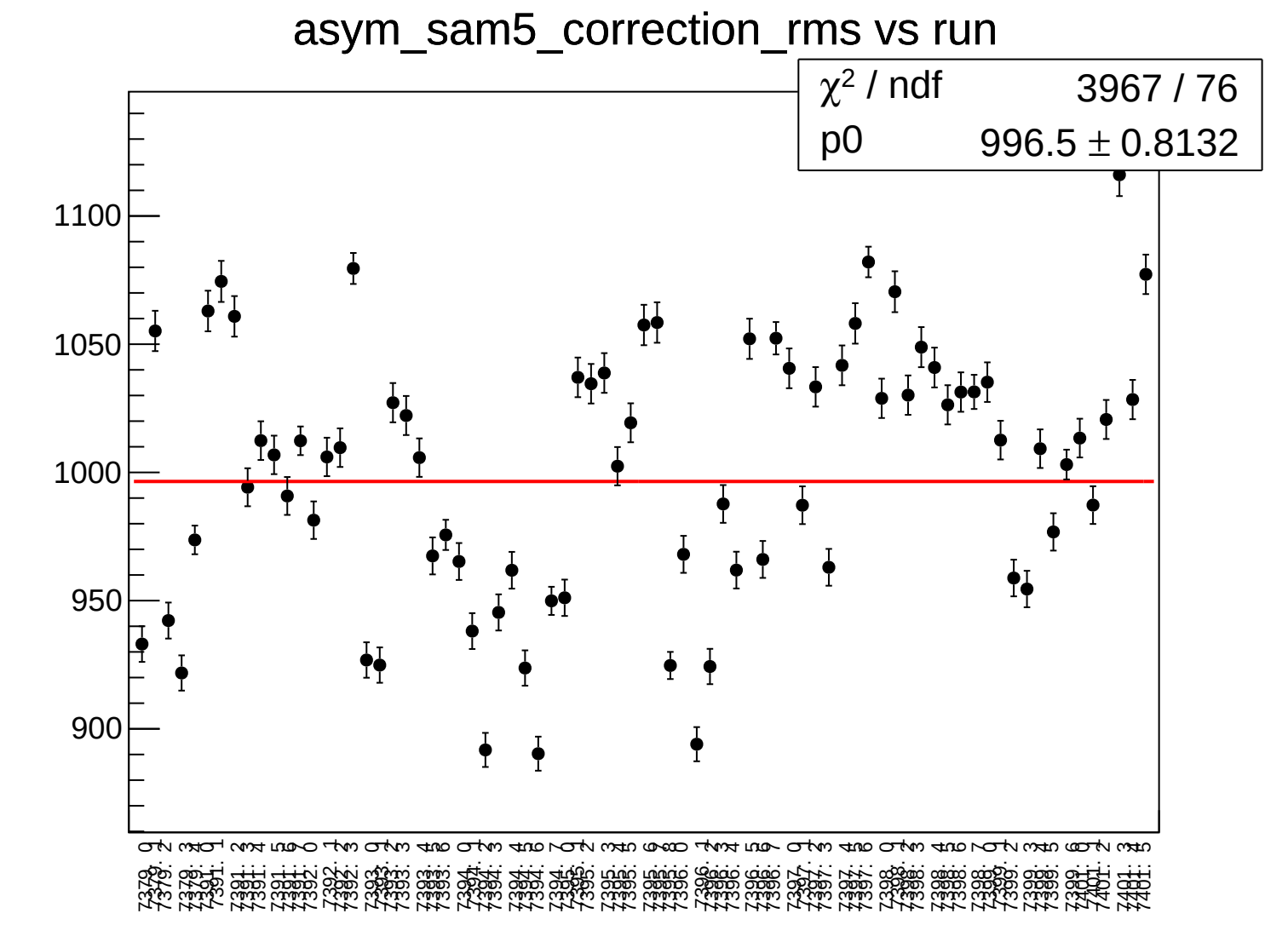

reg_asym_sam5_mean vs run
χ^2 / ndf 70.28 / 76
p0 47.41 ± 225.7
pull
Entries 77
Mean −196
Std Dev 224.3

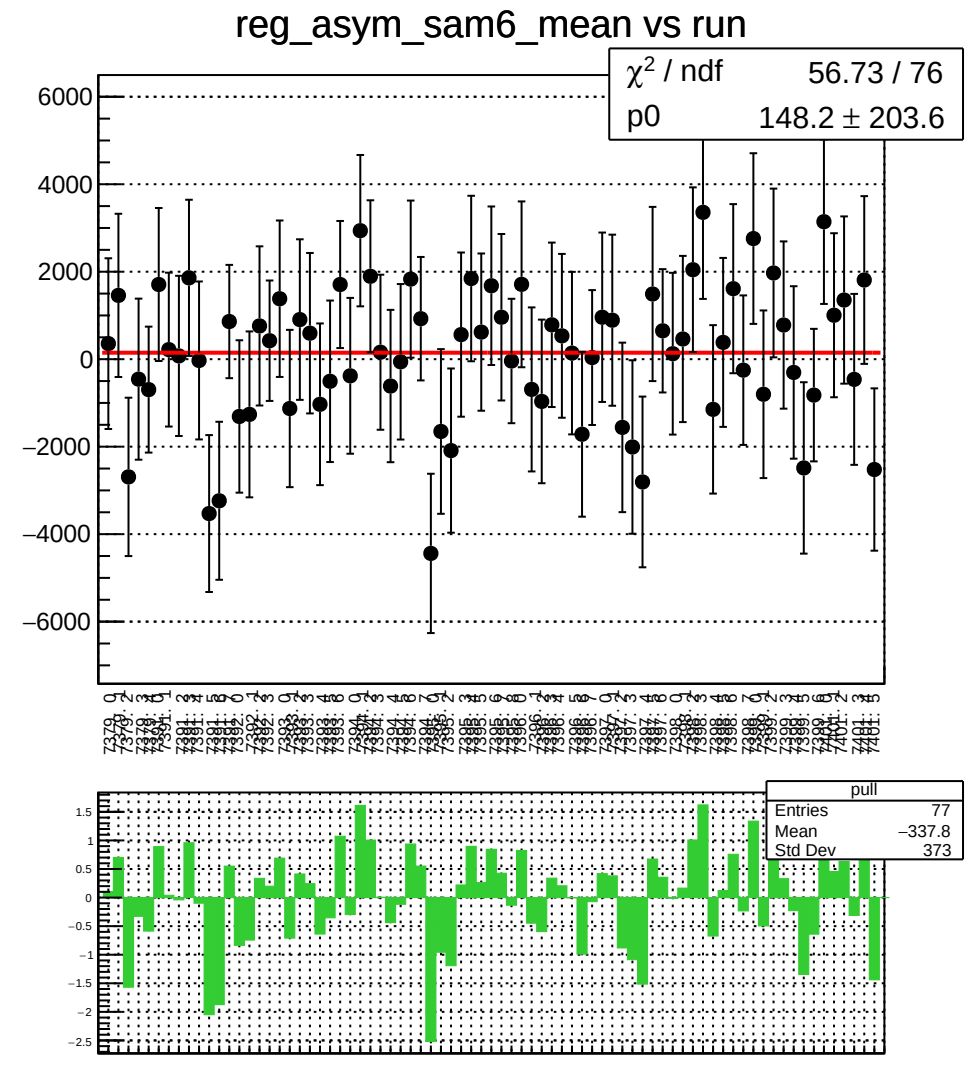

pull1D
Entries 77
Mean −0.006931
Std Dev 0.9554

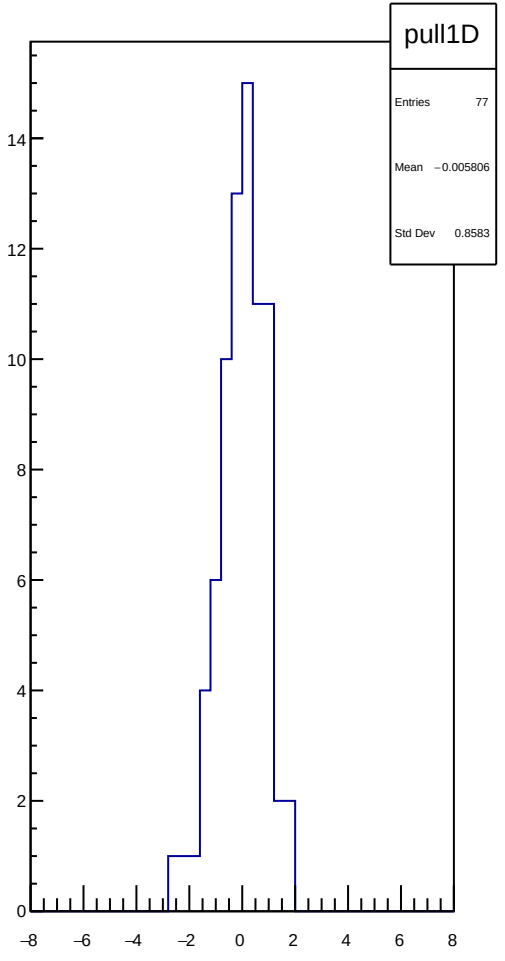

reg_asym_sam5_rms vs run
χ² / ndf 2466 / 76
p0 195.7 ± 0.1596
215
210
205
200
195
190
185
180
175
170

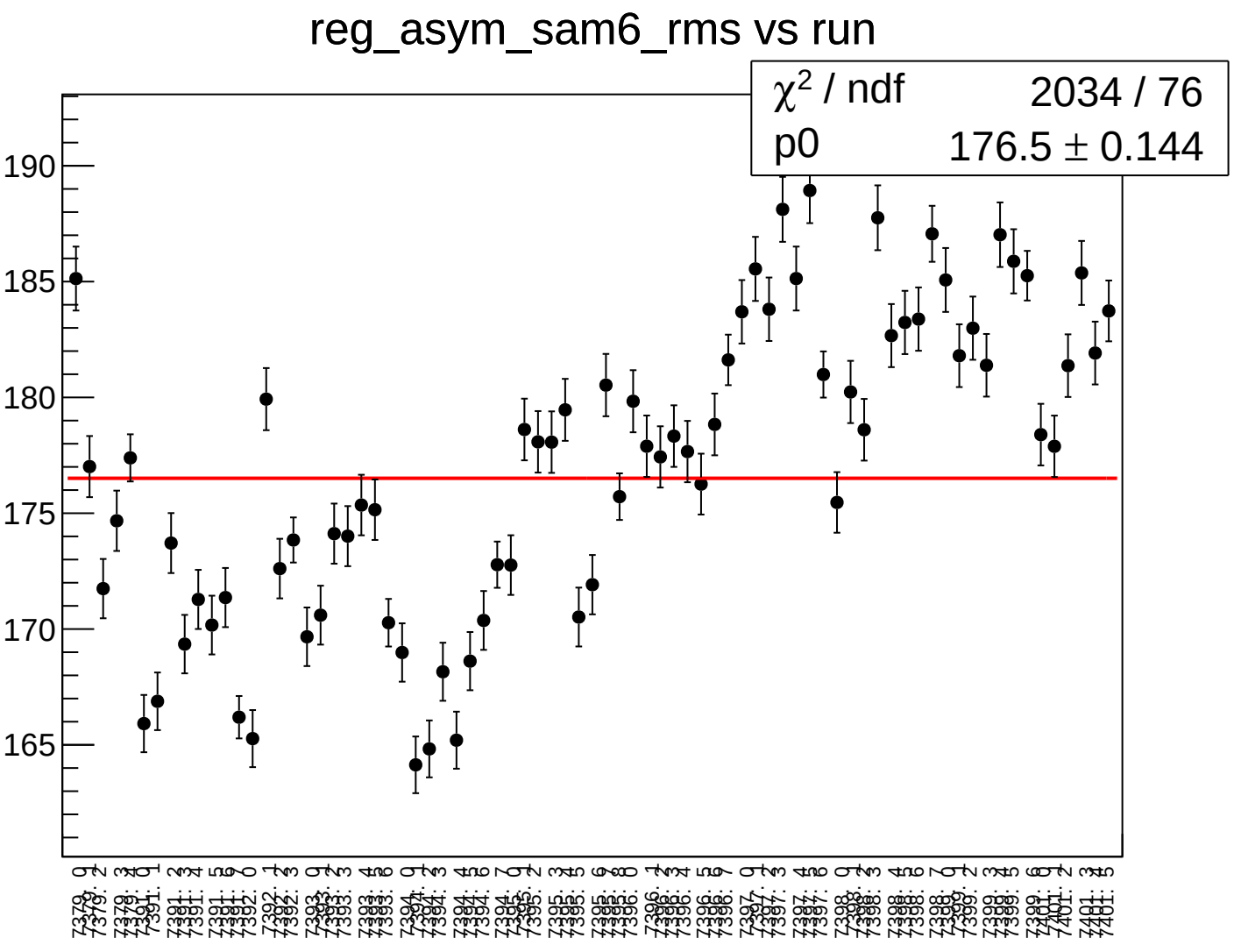

asym_sam5_correction_mean vs run
χ² / ndf 66.12 / 76
p0 −1563 ± 1150
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 77
Mean 93.36
Std Dev 60.96
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

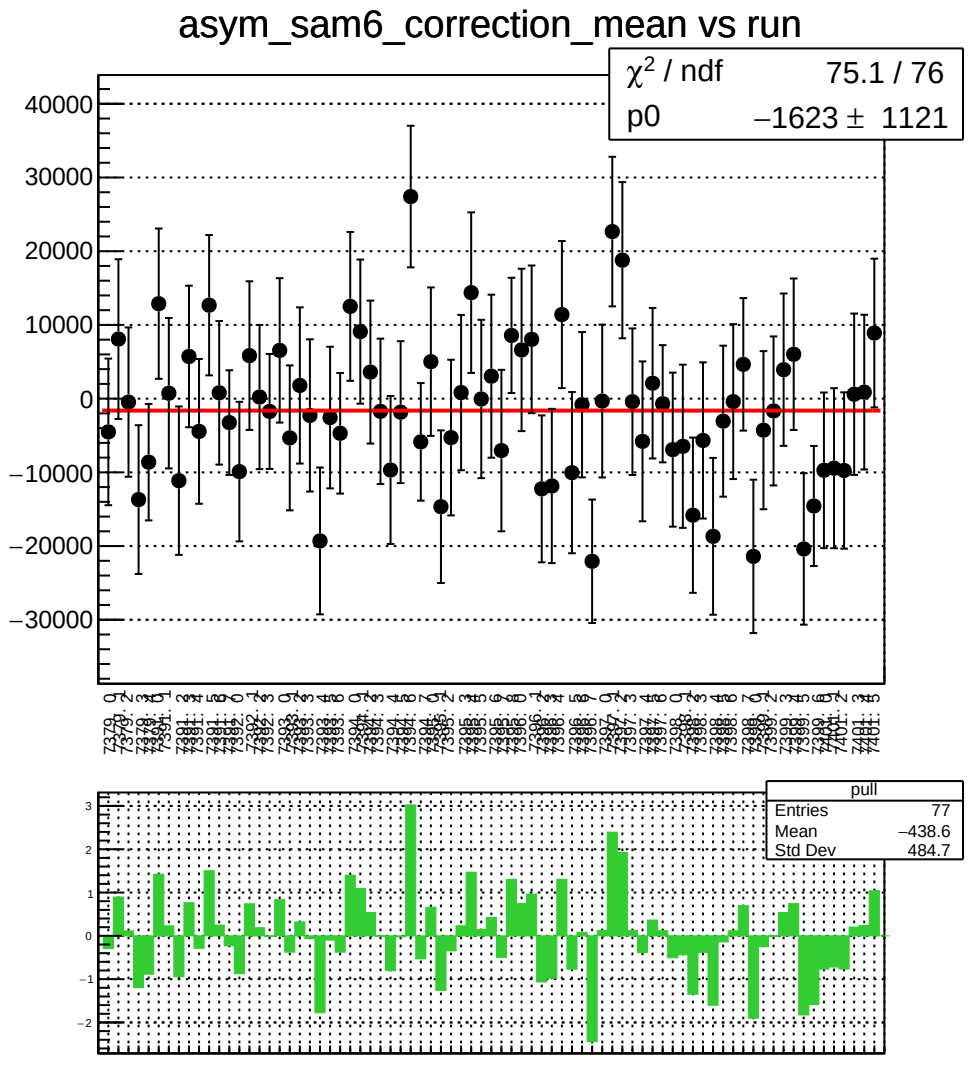

pull1D
Entries 77
Mean −0.00369
Std Dev 0.9266
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

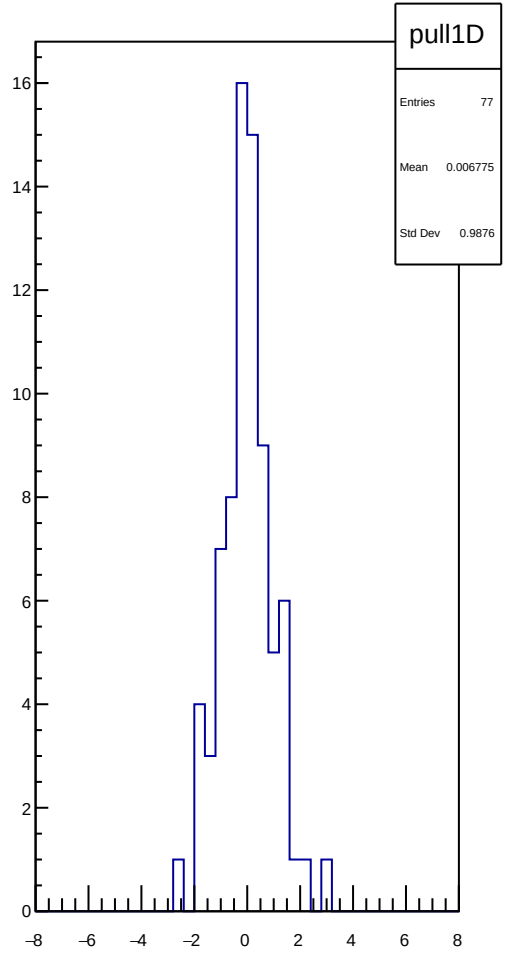

asym_sam5_correction_rms vs run
χ² / ndf 3967 / 76
p0 996.5 ± 0.8132
1100
1050
1000
950
900

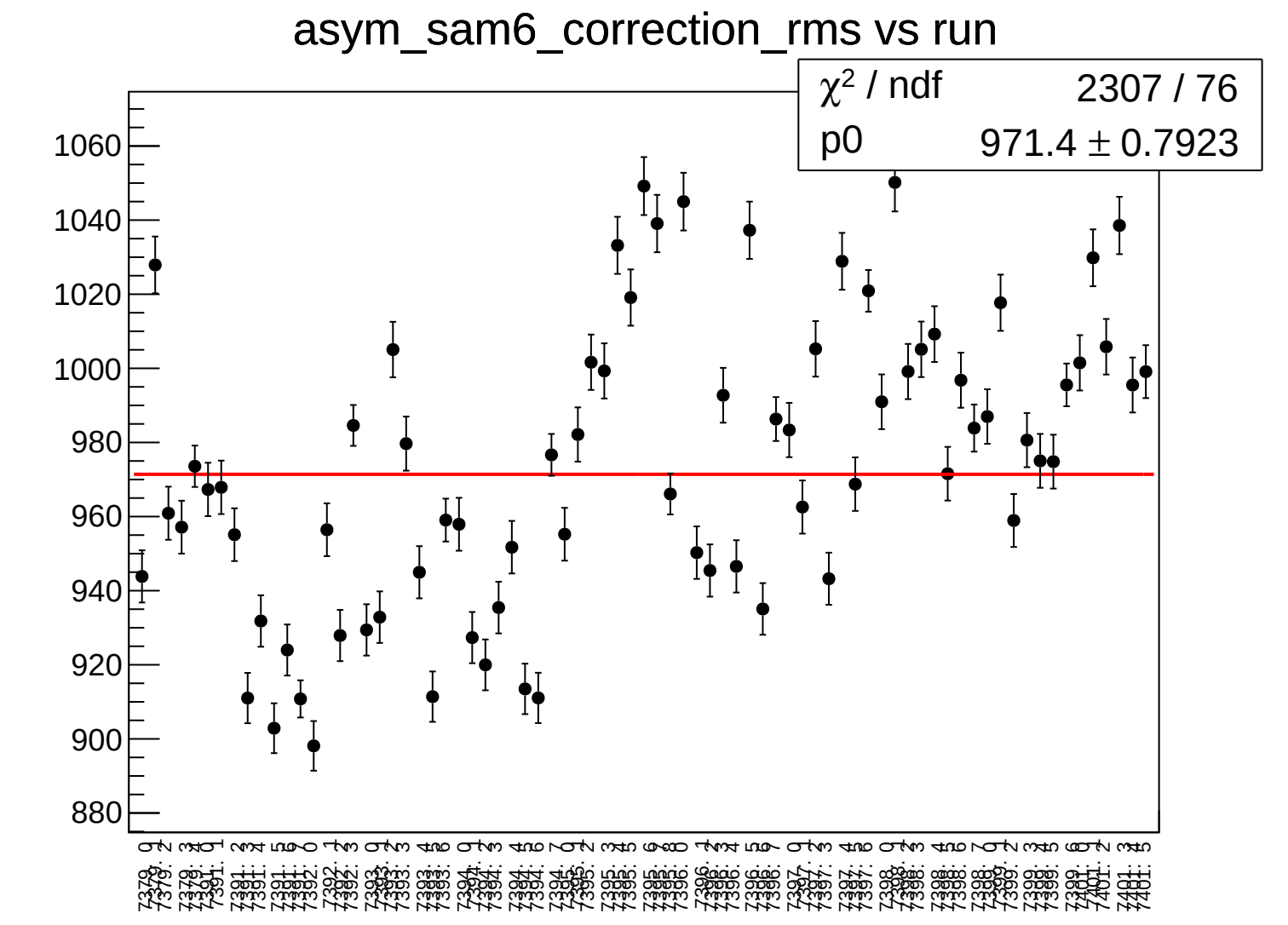

reg_asym_sam6_mean vs run
χ² / ndf 56.73 / 76
p0 148.2 ± 203.6
pull
Entries 77
Mean −337.8
Std Dev 373

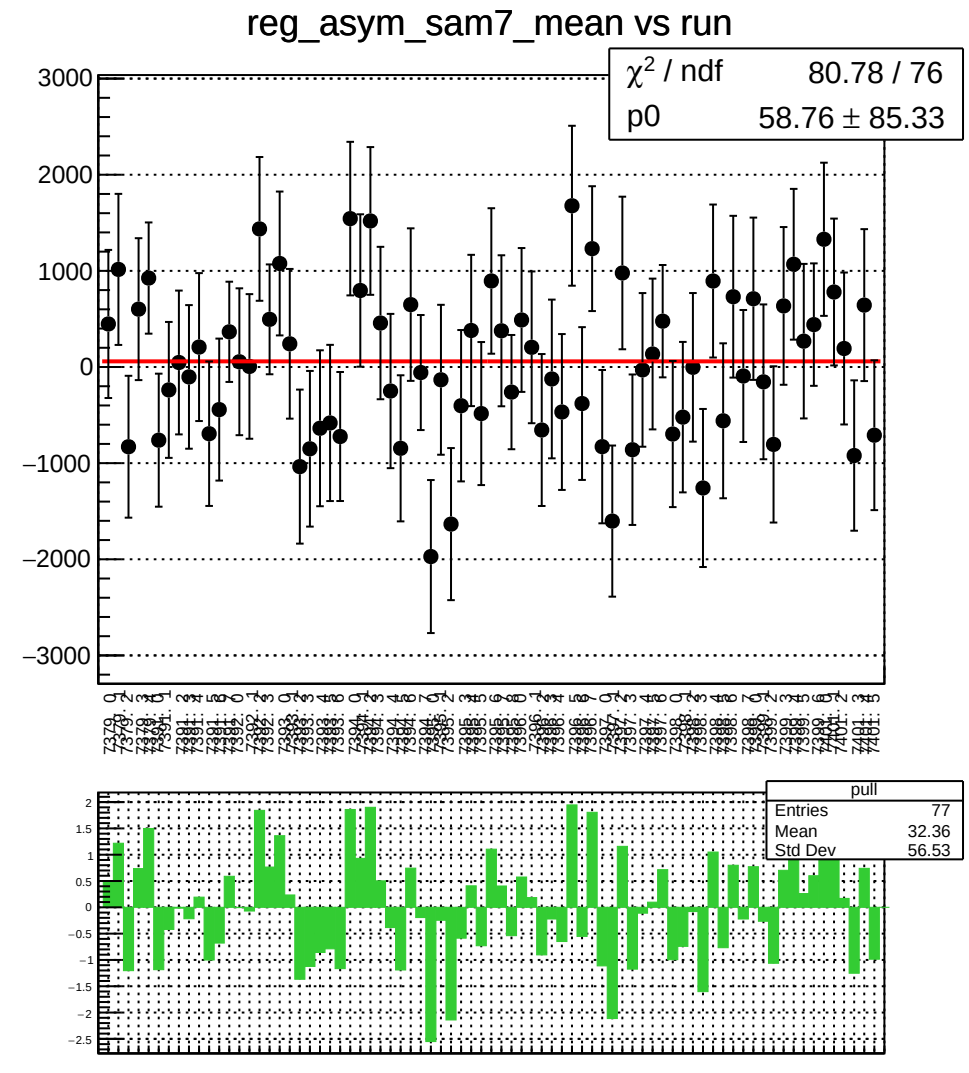

pull1D
Entries 77
Mean −0.005806
Std Dev 0.8583

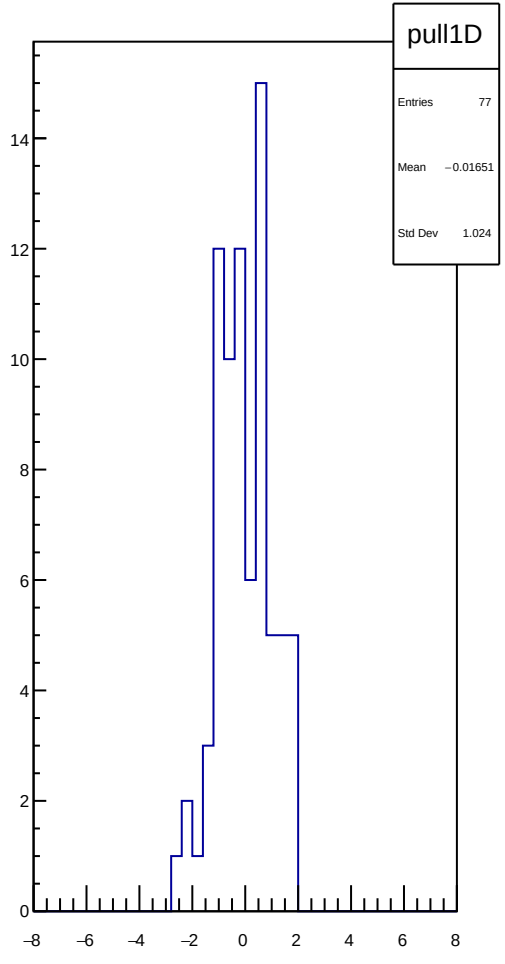

reg_asym_sam6_rms vs run
χ^2 / ndf 2034 / 76
p0 176.5 ± 0.144
190
185
180
175
170
165

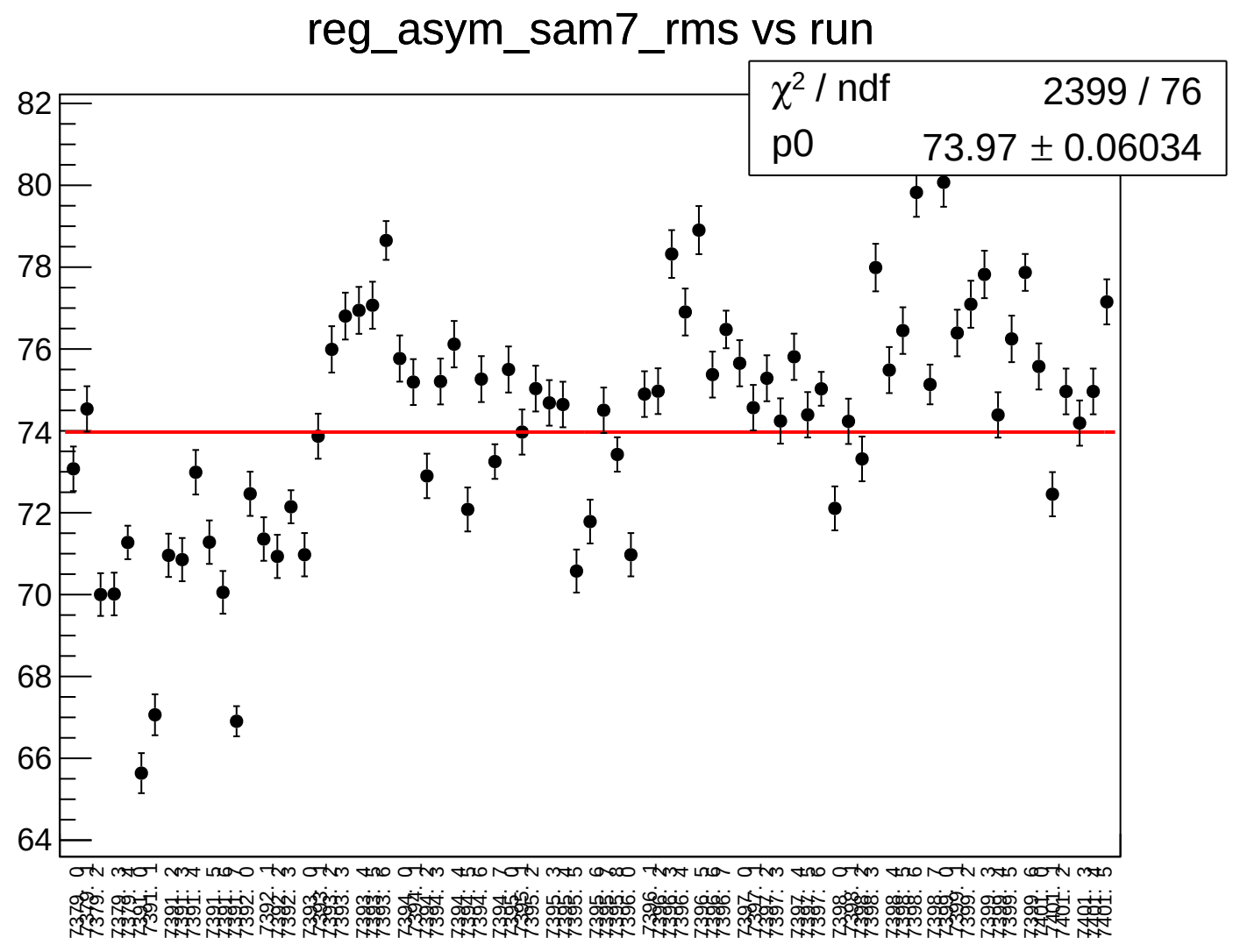

asym_sam6_correction_mean vs run
χ² / ndf 75.1 / 76
p0 −1623 ± 1121
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 77
Mean −438.6
Std Dev 484.7
3
2
1
0
−1
−2

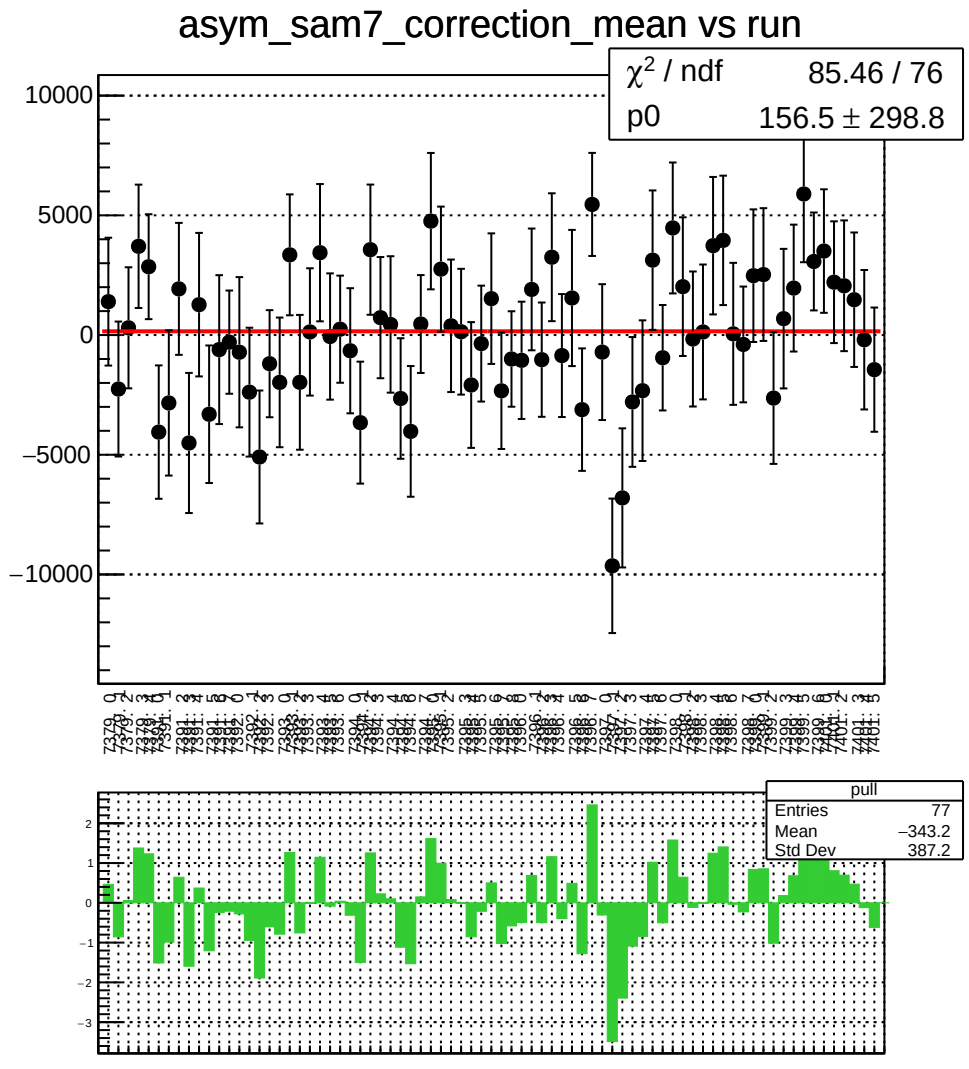

pull1D
Entries 77
Mean 0.006775
Std Dev 0.9876
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

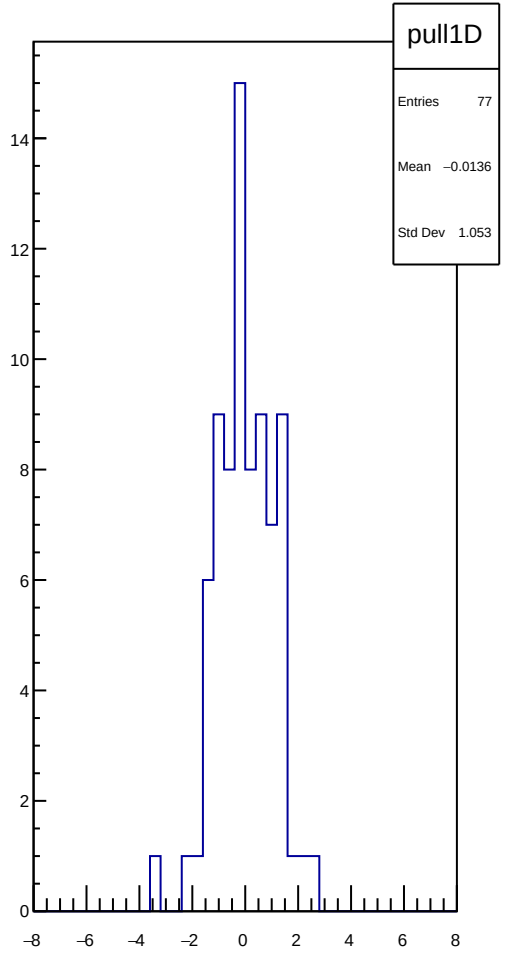

asym_sam6_correction_rms vs run
χ² / ndf 2307 / 76
p0 971.4 ± 0.7923
1060
1040
1020
1000
980
960
940
920
900
880

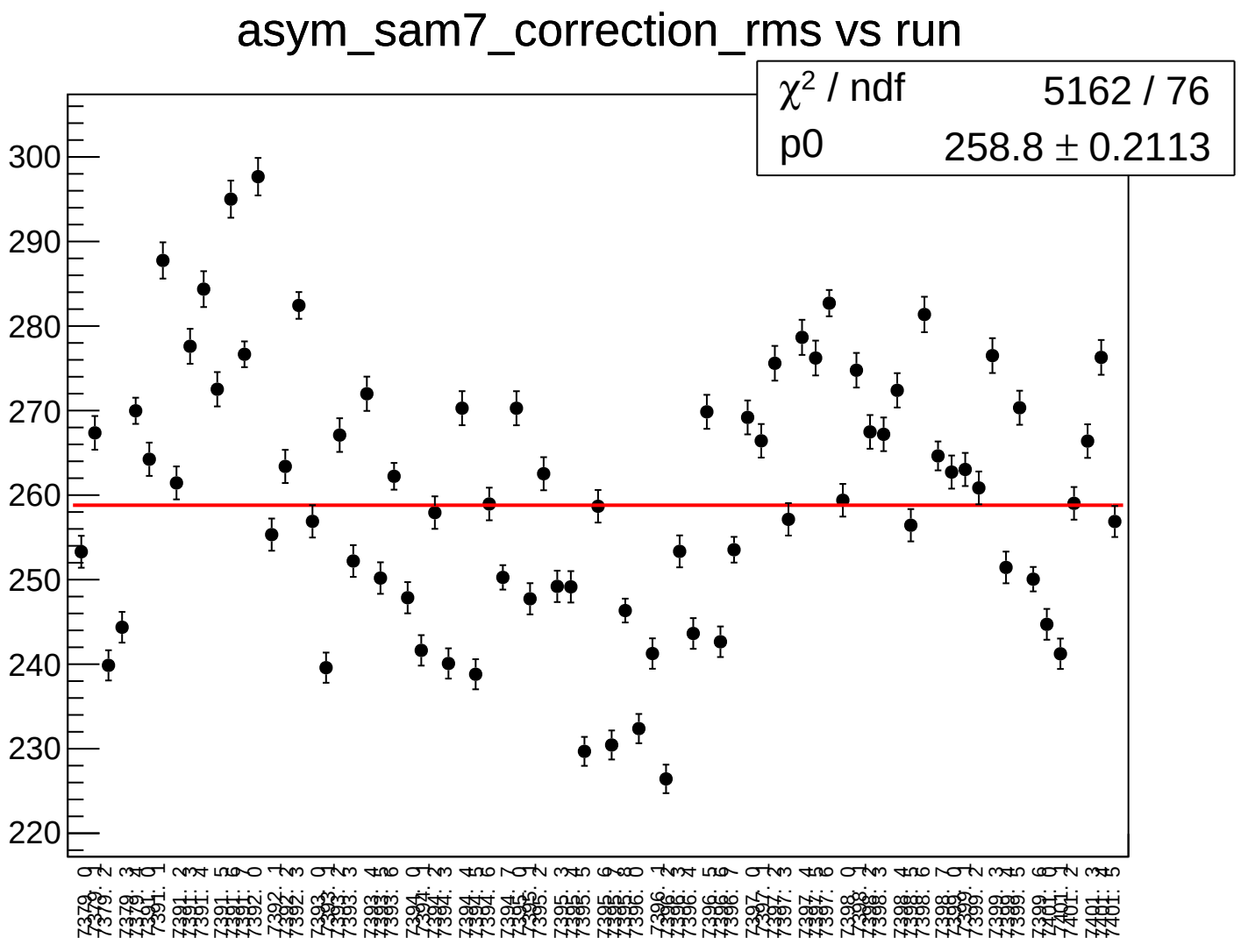

reg_asym_sam7_mean vs run
χ^2 / ndf 80.78 / 76
p0 58.76 ± 85.33
pull
Entries 77
Mean 32.36
Std Dev 56.53

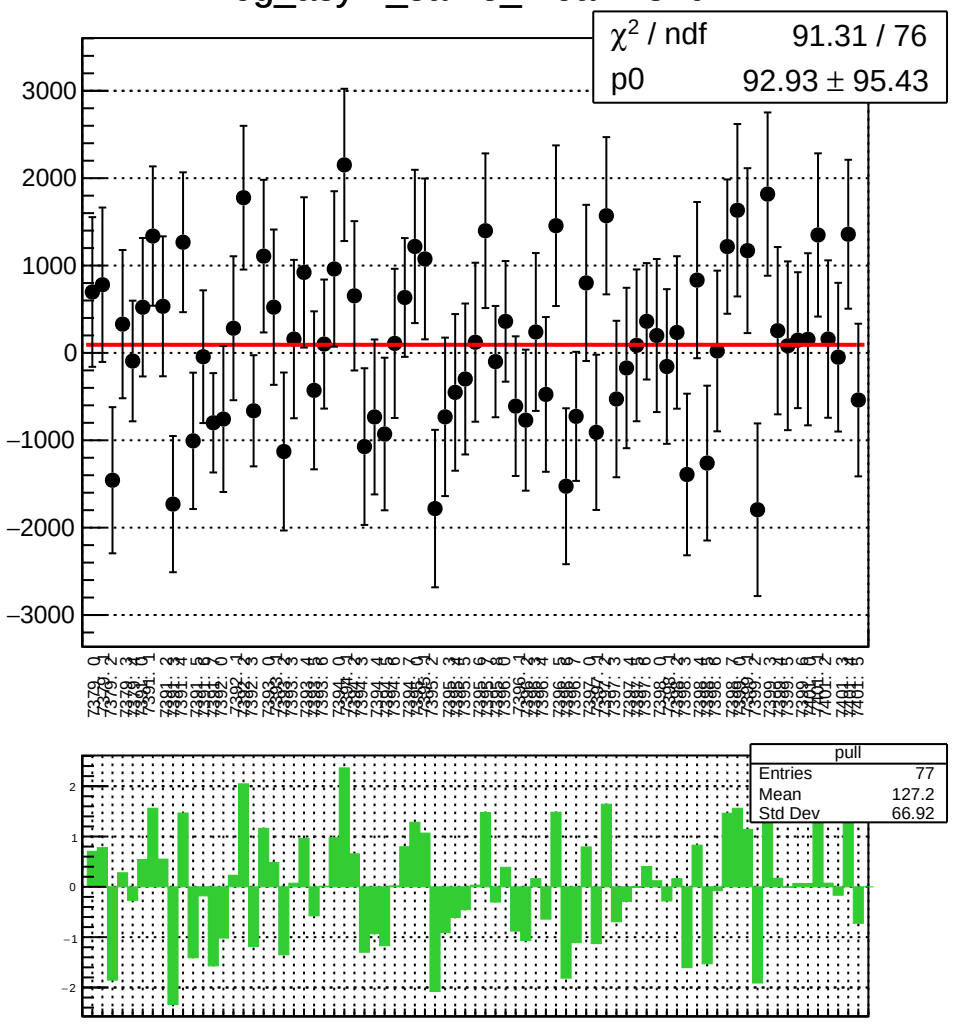

pull1D
Entries 77
Mean −0.01651
Std Dev 1.024

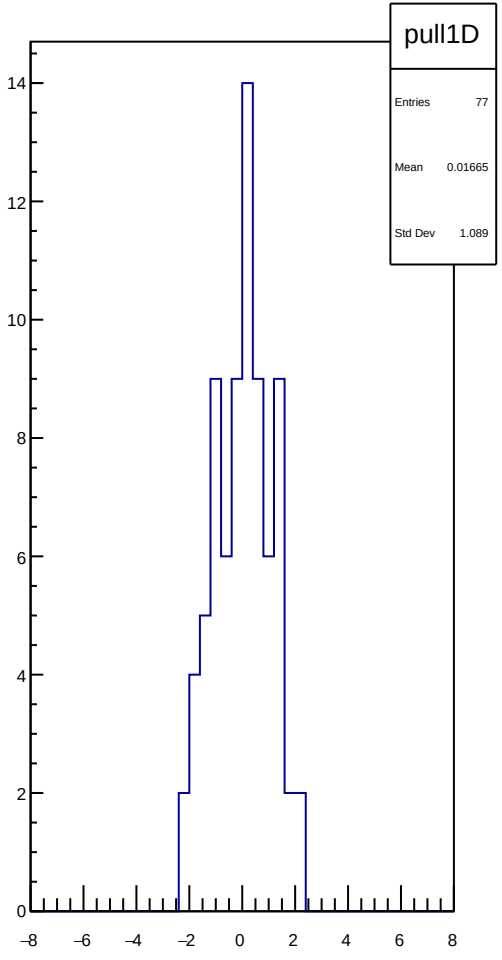

reg_asym_sam7_rms vs run
χ² / ndf 2399 / 76
p0 73.97 ± 0.06034
82
80
78
76
74
72
70
68
66
64

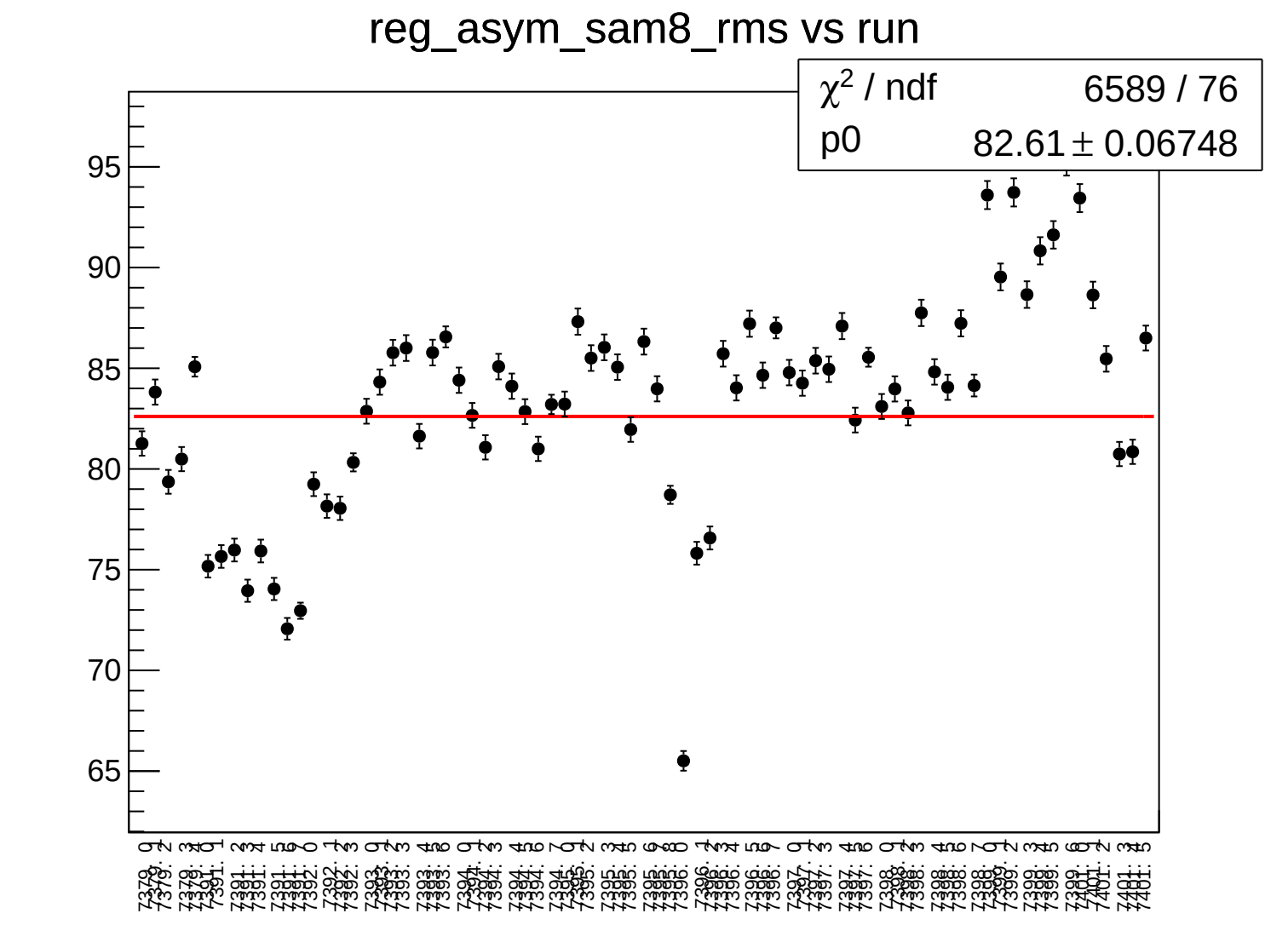

asym_sam7_correction_mean vs run
χ^2 / ndf 85.46 / 76
p0 156.5 ± 298.8
10000
5000
0
−5000
−10000
pull
Entries 77
Mean −343.2
Std Dev 387.2
2
1
0
−1
−2
−3

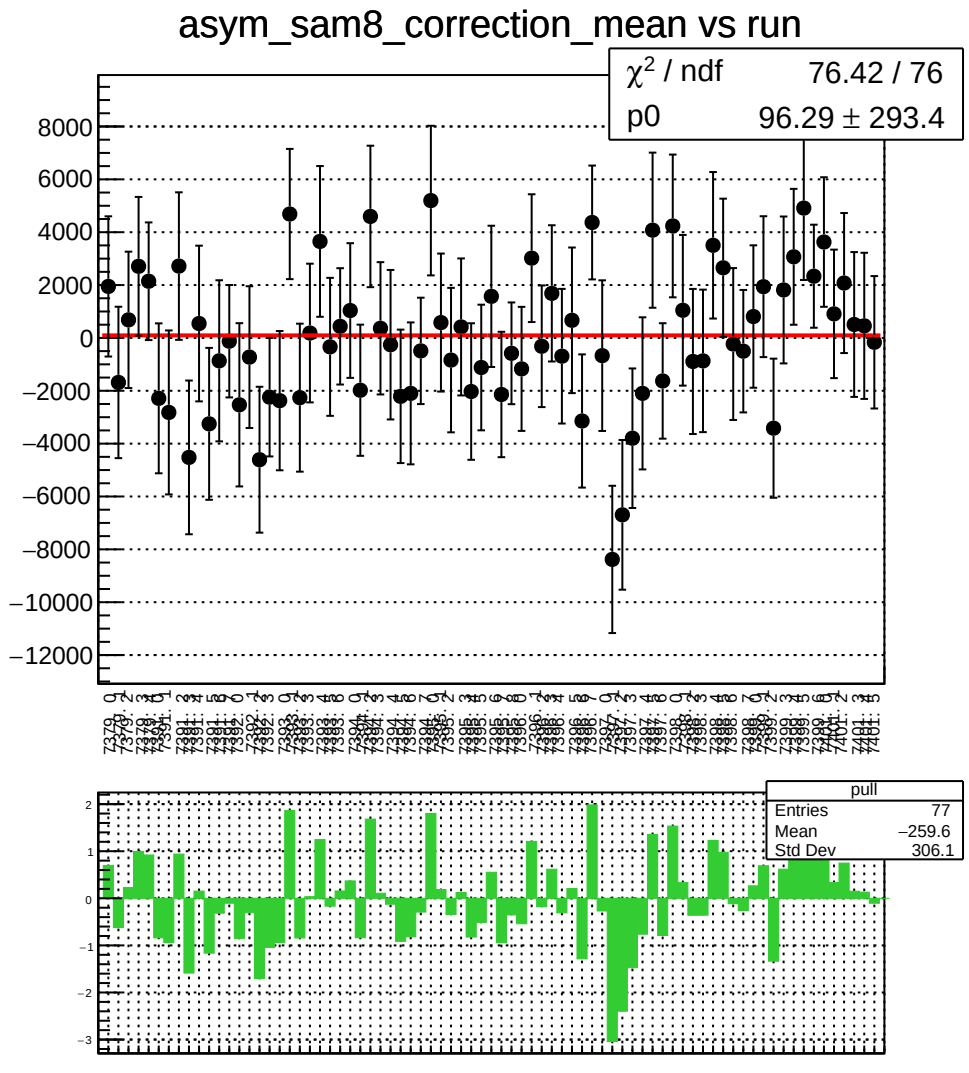

pull1D
Entries 77
Mean −0.0136
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

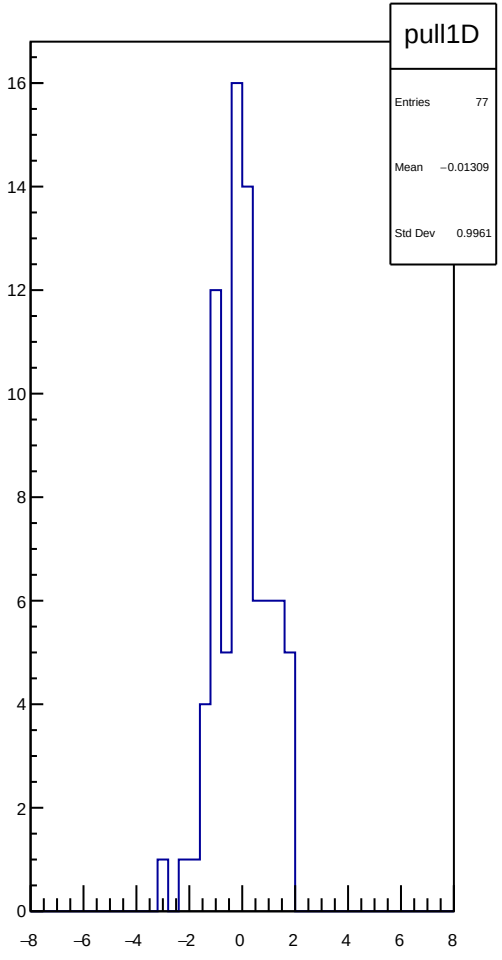

asym_sam7_correction_rms vs run
χ² / ndf 5162 / 76
p0 258.8 ± 0.2113
300
290
280
270
260
250
240
230
220

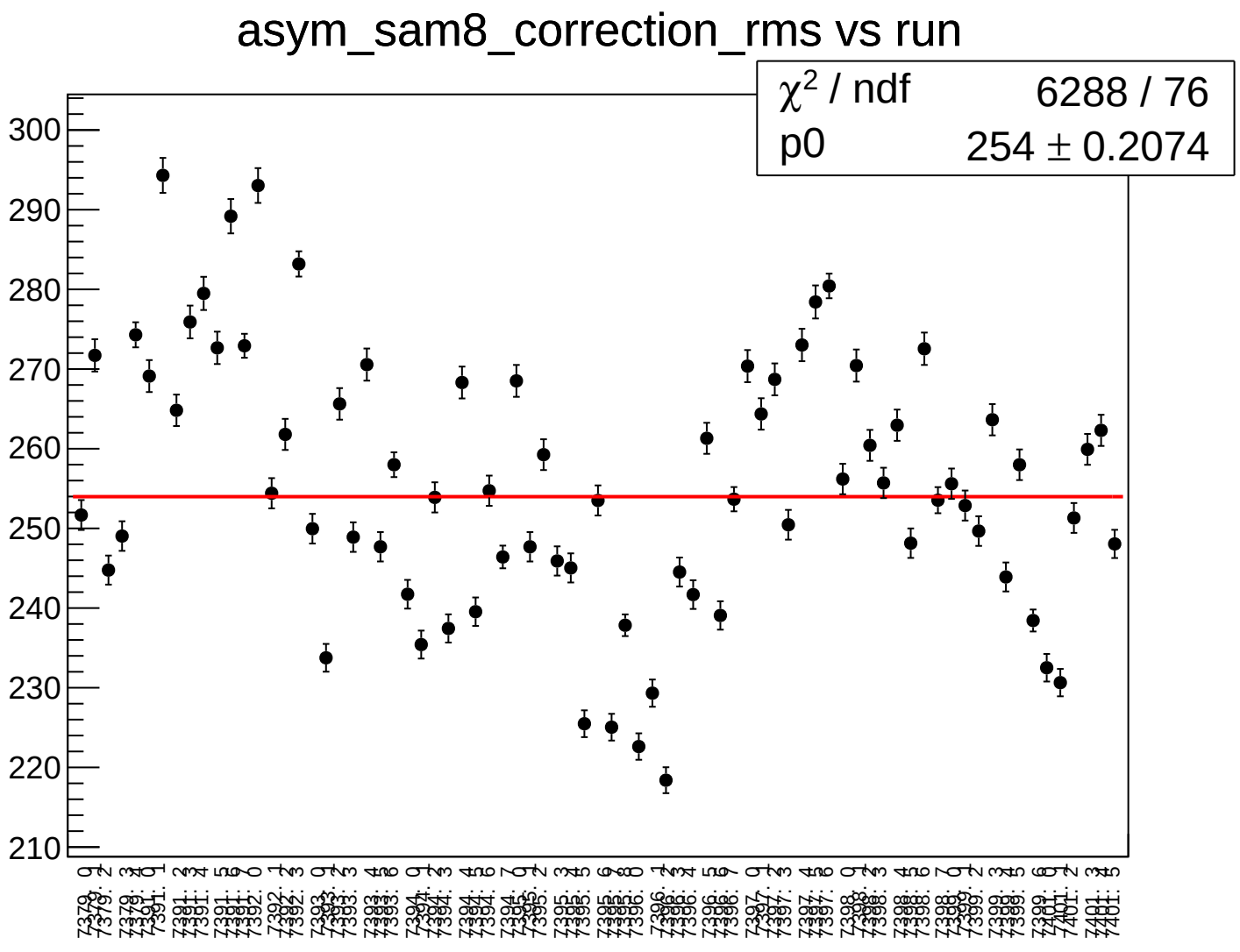

reg_asym_sam8_mean vs run
χ^2 / ndf 91.31 / 76
p0 92.93 ± 95.43
pull
Entries 77
Mean 127.2
Std Dev 66.92

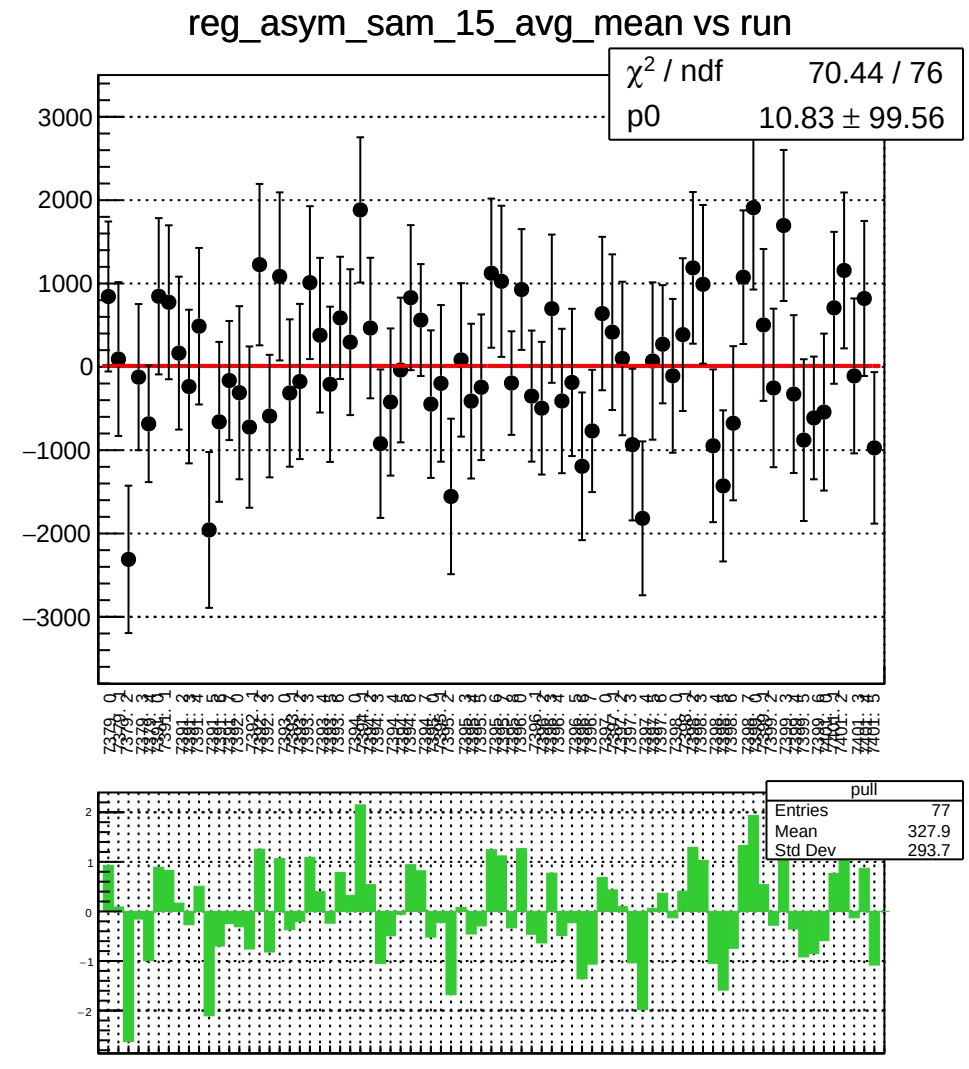

pull1D
Entries 77
Mean 0.01665
Std Dev 1.089

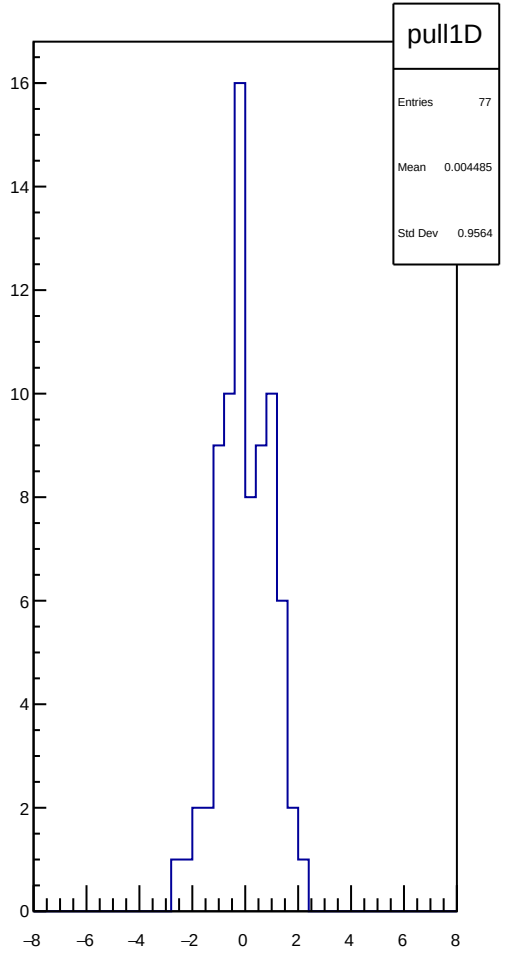

reg_asym_sam8_rms vs run
χ^2 / ndf 6589 / 76
p0 82.61 ± 0.06748
95
90
85
80
75
70
65

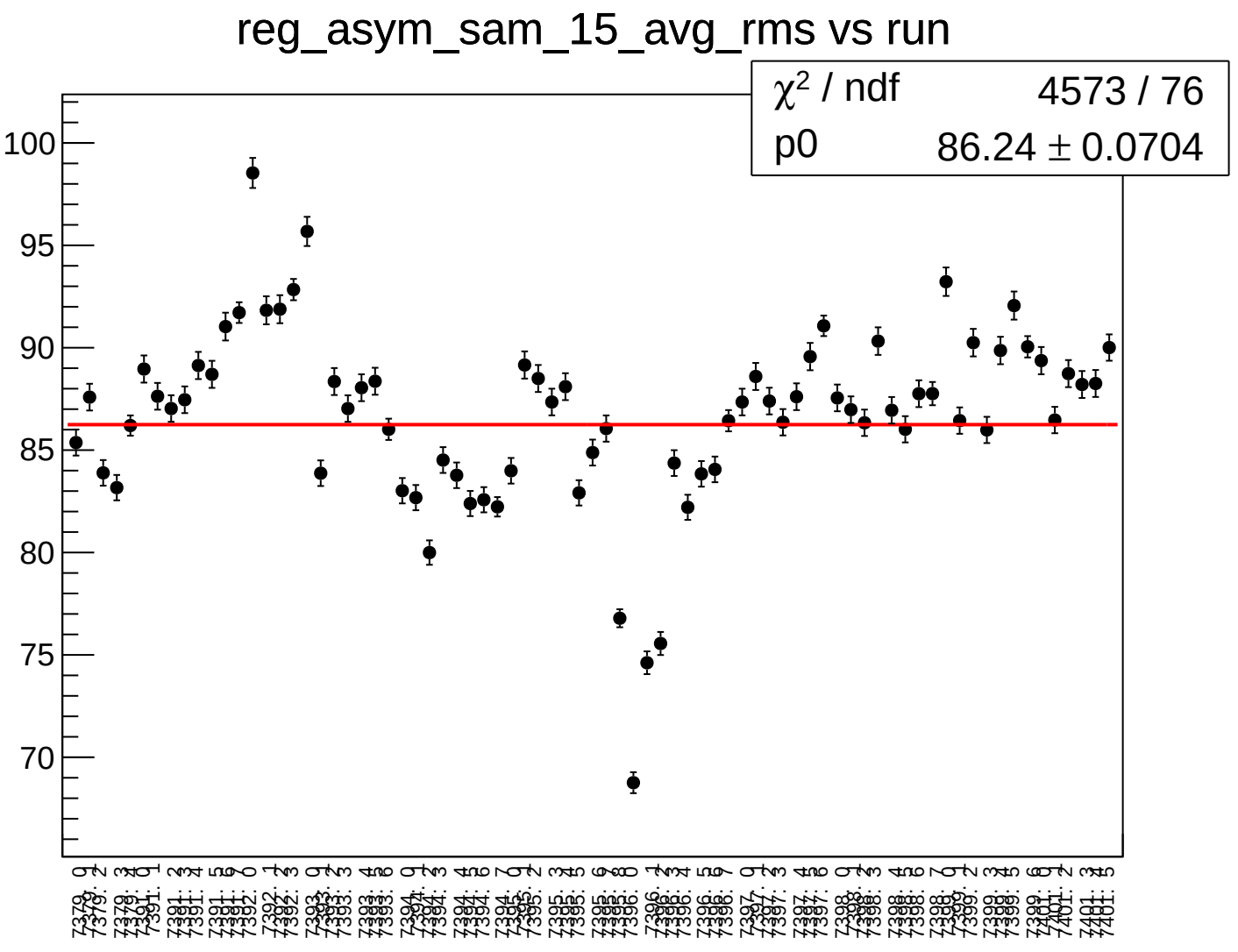

asym_sam8_correction_mean vs run
χ² / ndf 76.42 / 76
p0 96.29 ± 293.4
pull
Entries 77
Mean −259.6
Std Dev 306.1

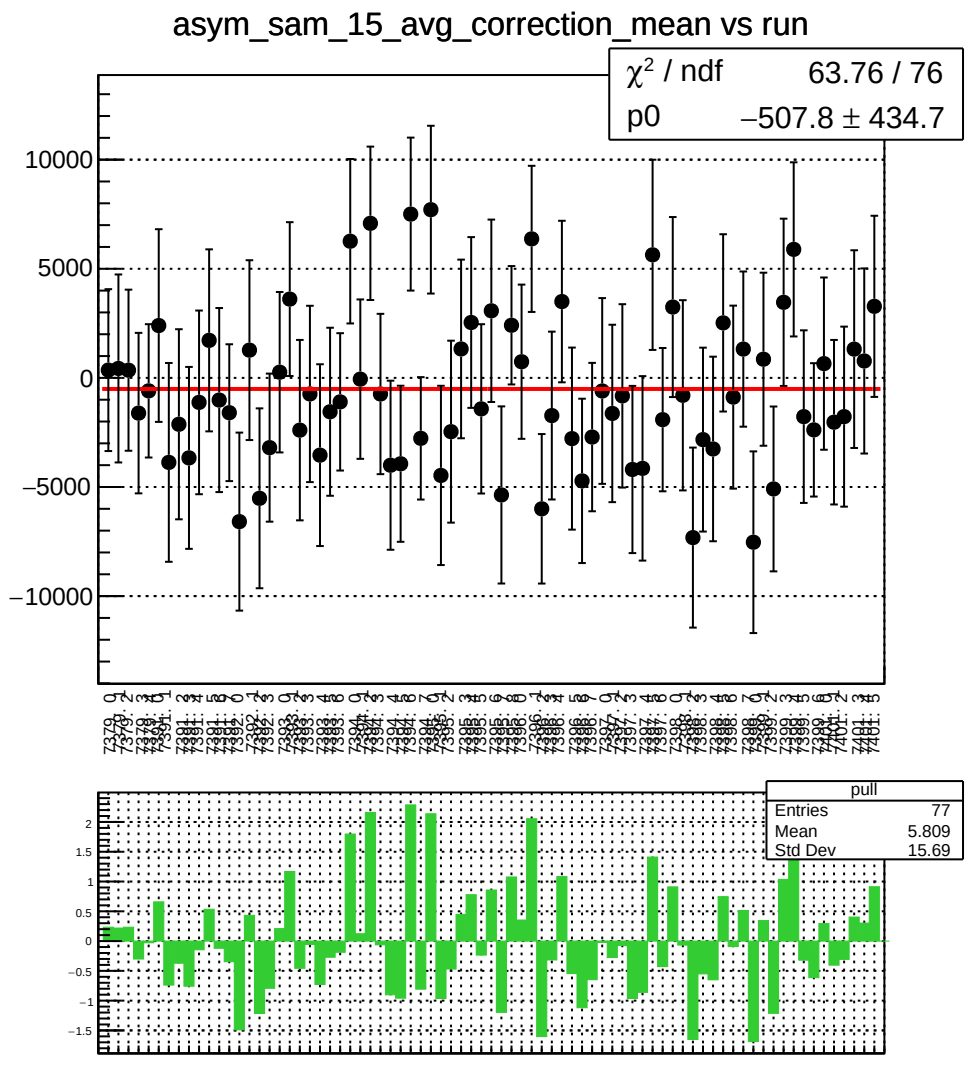

pull1D
Entries 77
Mean −0.01309
Std Dev 0.9961

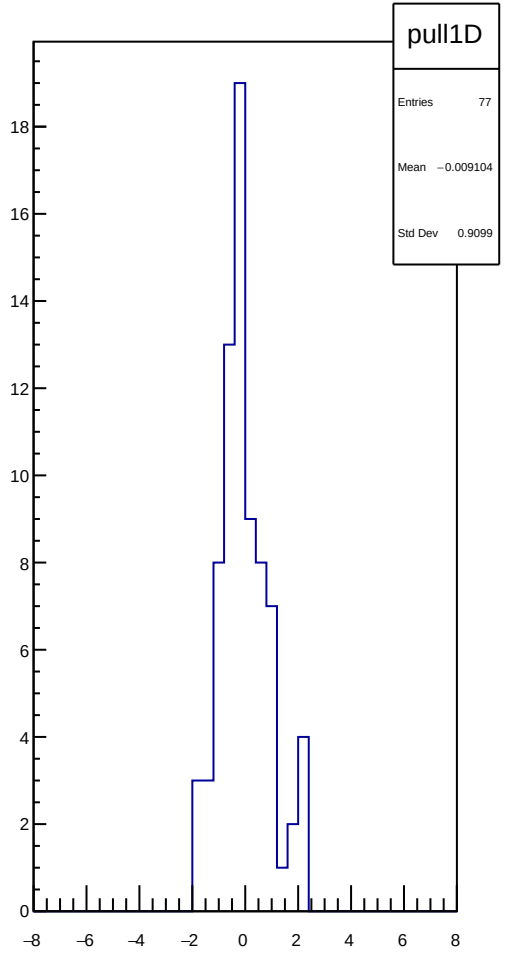

asym_sam8_correction_rms vs run
χ² / ndf 6288 / 76
p0 254 ± 0.2074
300
290
280
270
260
250
240
230
220
210

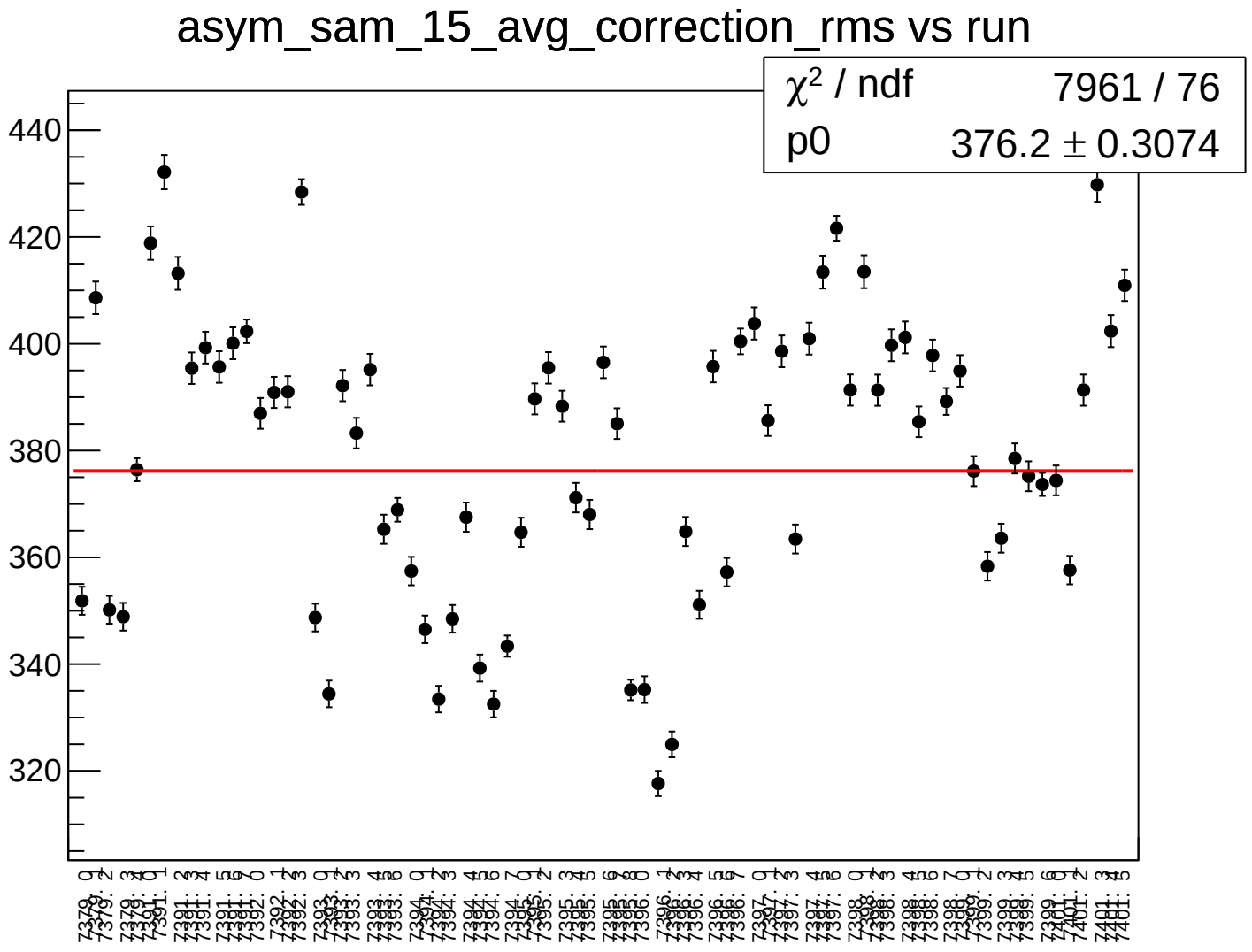

reg_asym_sam_15_avg_mean vs run
χ² / ndf 70.44 / 76
p0 10.83 ± 99.56
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 77
Mean 327.9
Std Dev 293.7
2
1
0
−1
−2

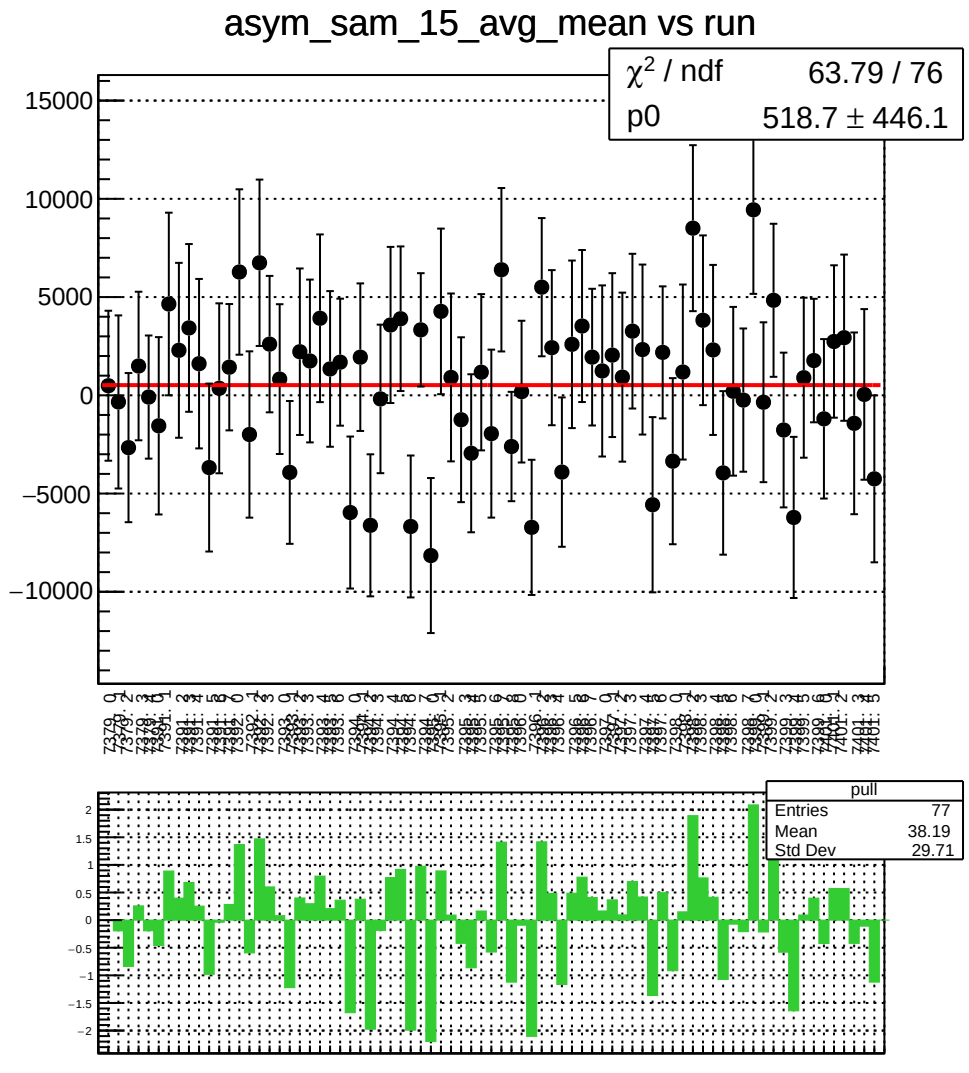

pull1D
Entries 77
Mean 0.004485
Std Dev 0.9564
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

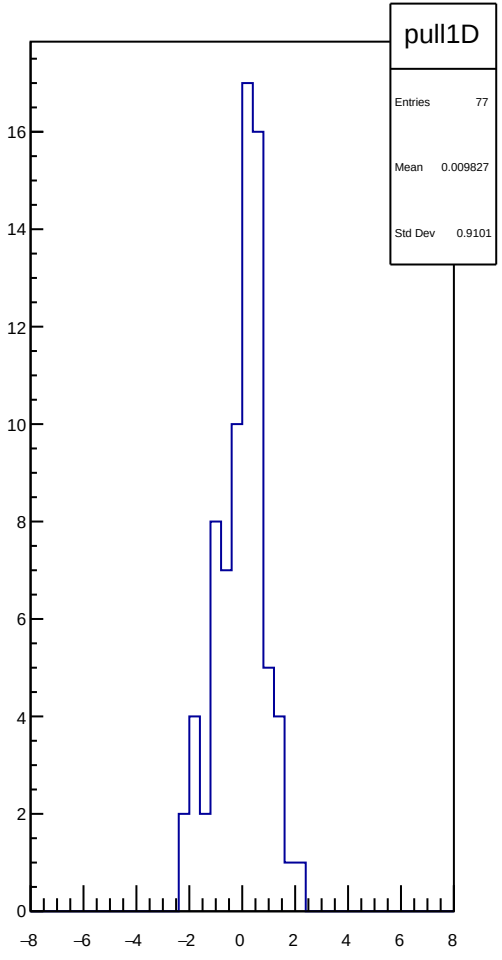

reg_asym_sam_15_avg_rms vs run
χ² / ndf 4573 / 76
p0 86.24 ± 0.0704
100
95
90
85
80
75
70

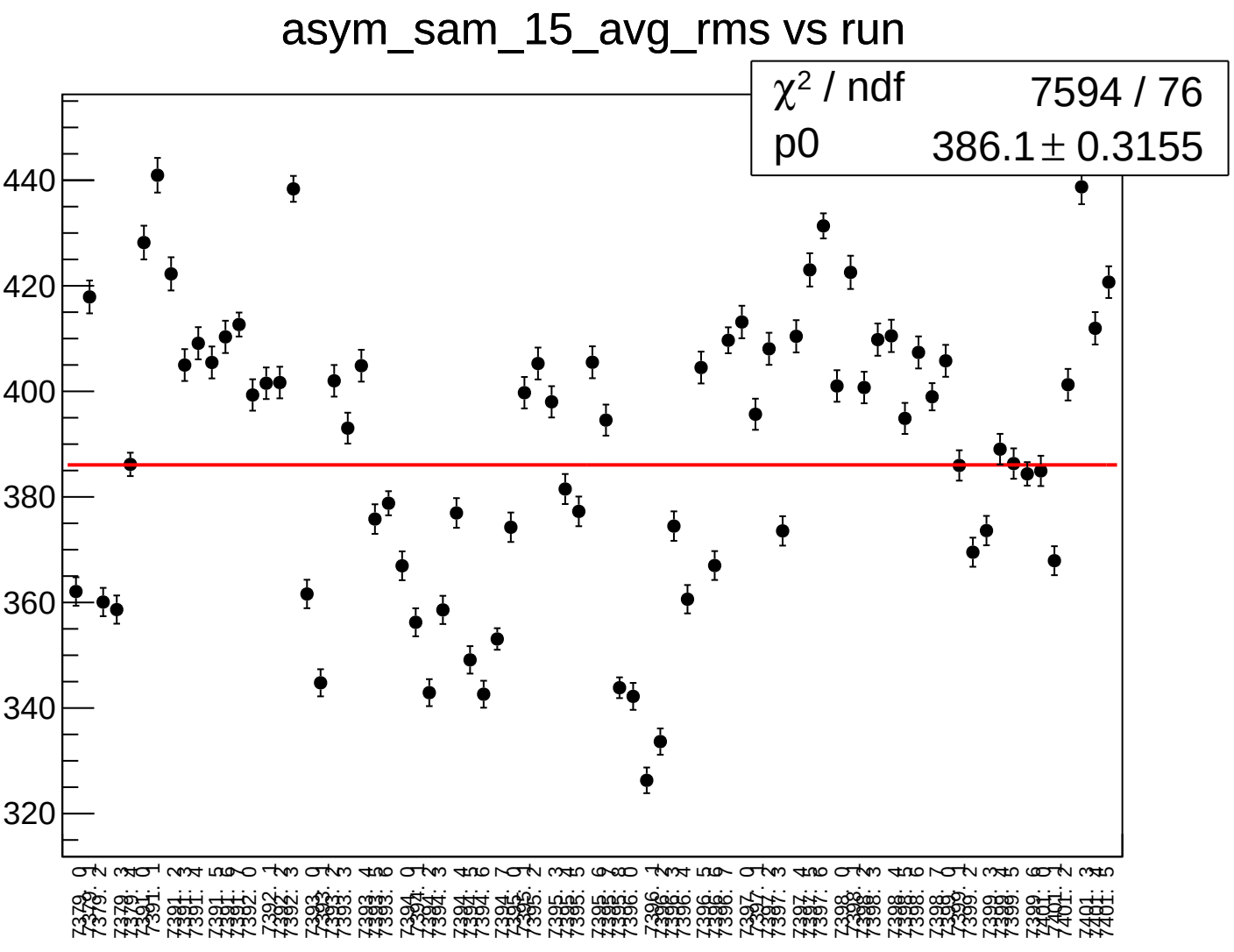

asym_sam_15_avg_correction_mean vs run
χ² / ndf 63.76 / 76
p0 −507.8 ± 434.7
10000
5000
0
−5000
−10000
pull
Entries 77
Mean 5.809
Std Dev 15.69
2
1.5
1
0.5
0
−0.5
−1
−1.5

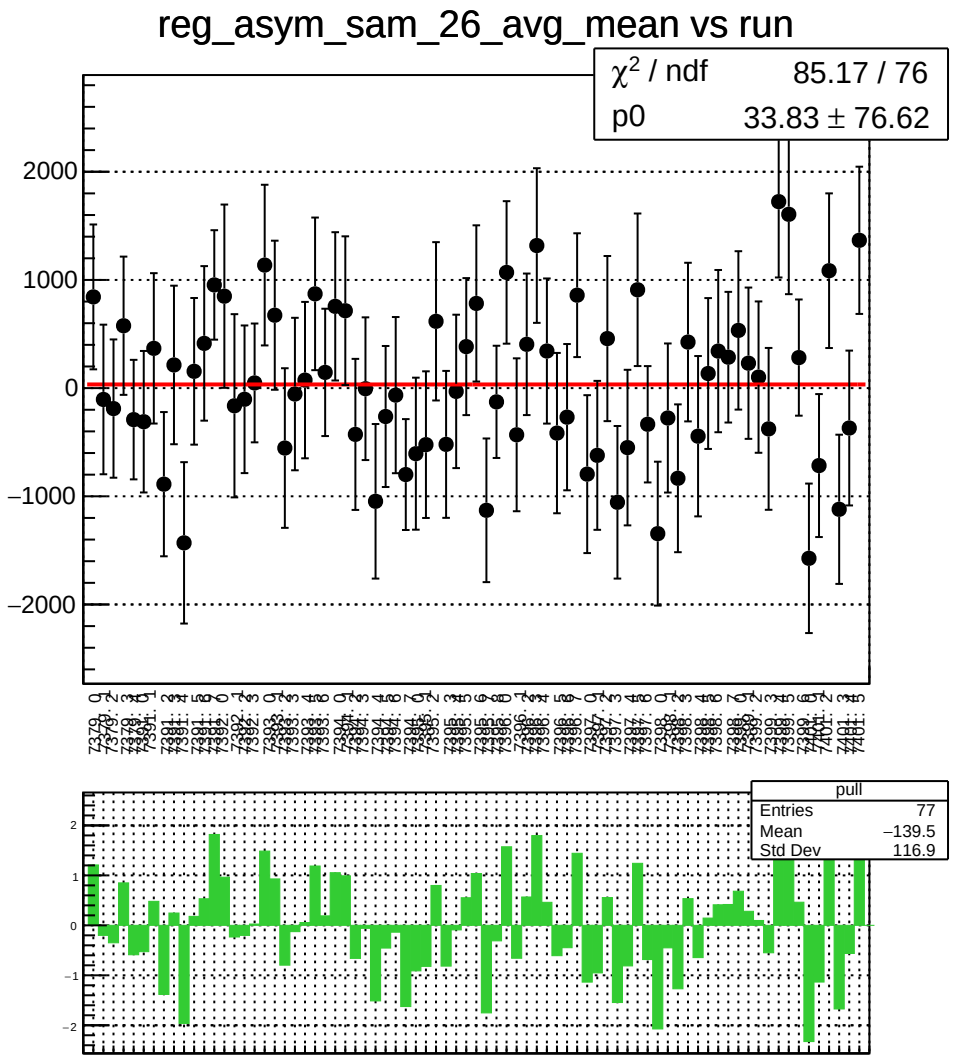

pull1D
Entries 77
Mean −0.009104
Std Dev 0.9099
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

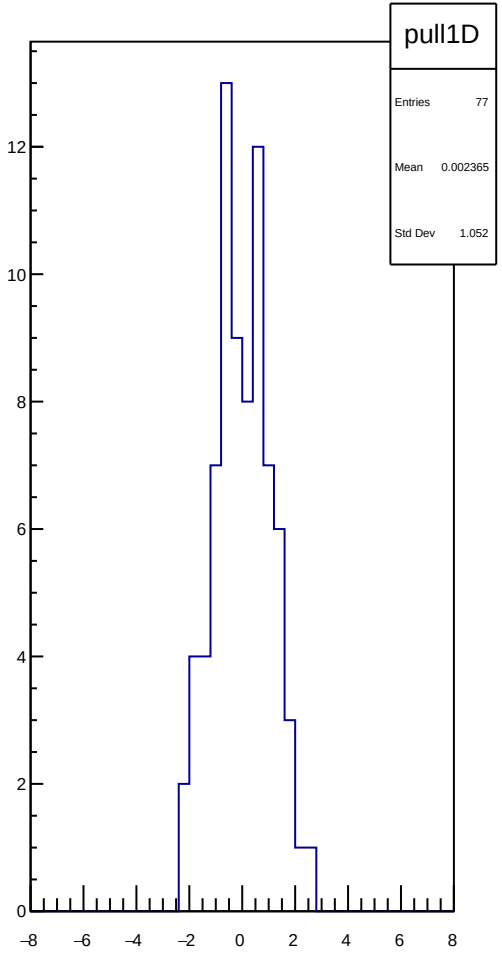

asym_sam_15_avg_correction_rms vs run
χ^2 / ndf 7961 / 76
p0 376.2 ± 0.3074
440
420
400
380
360
340
320

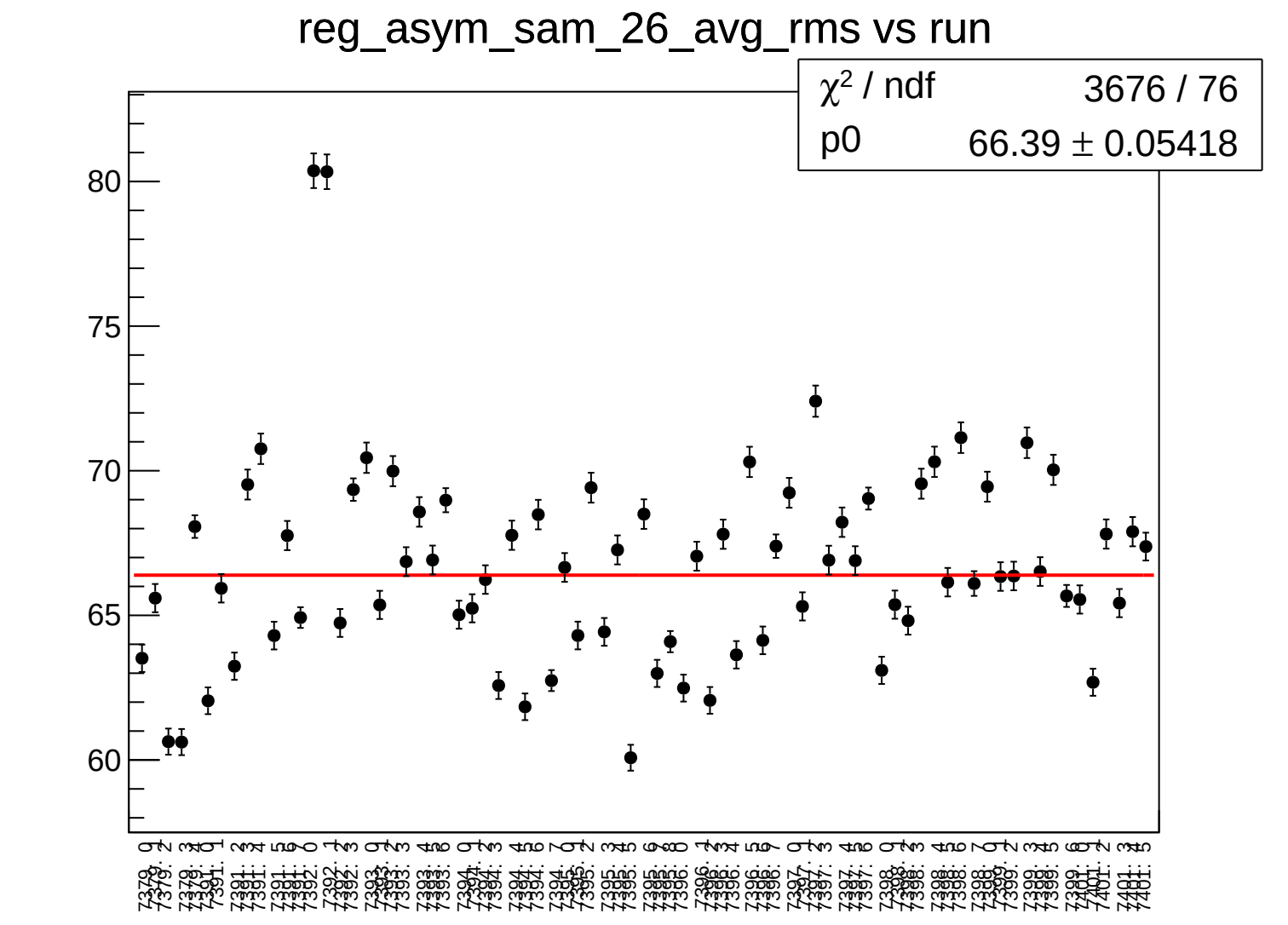

asym_sam_15_avg_mean vs run
χ² / ndf 63.79 / 76
p0 518.7 ± 446.1
15000
10000
5000
0
−5000
−10000
pull
Entries 77
Mean 38.19
Std Dev 29.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

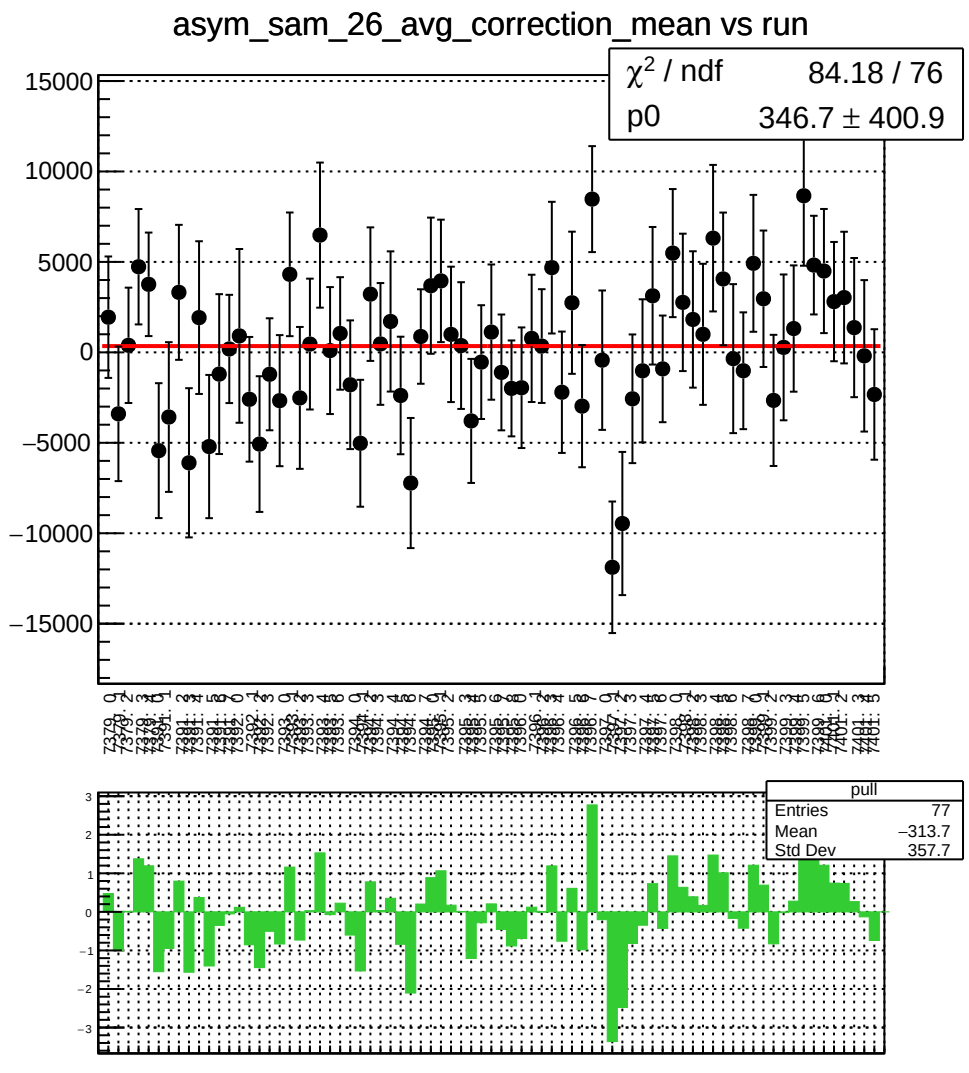

pull1D
Entries 77
Mean 0.009827
Std Dev 0.9101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

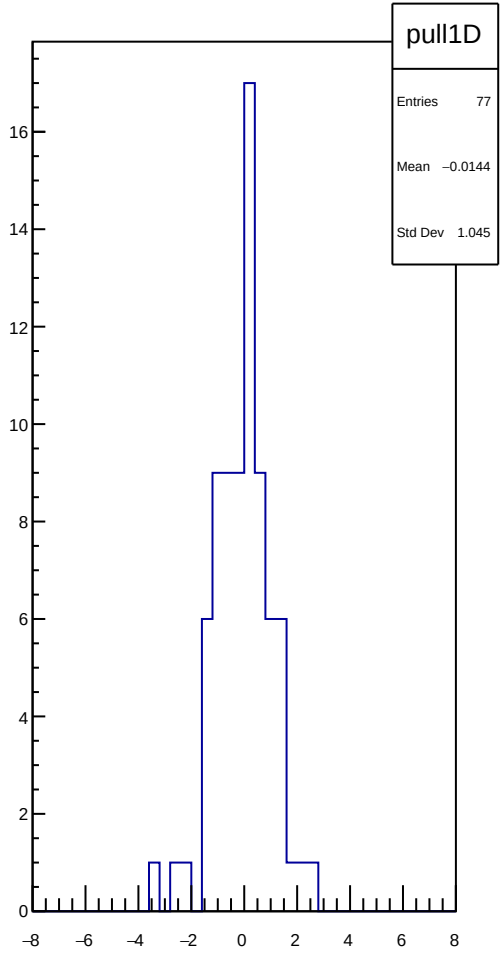

asym_sam_15_avg_rms vs run
χ² / ndf 7594 / 76
p0 386.1 ± 0.3155
440
420
400
380
360
340
320

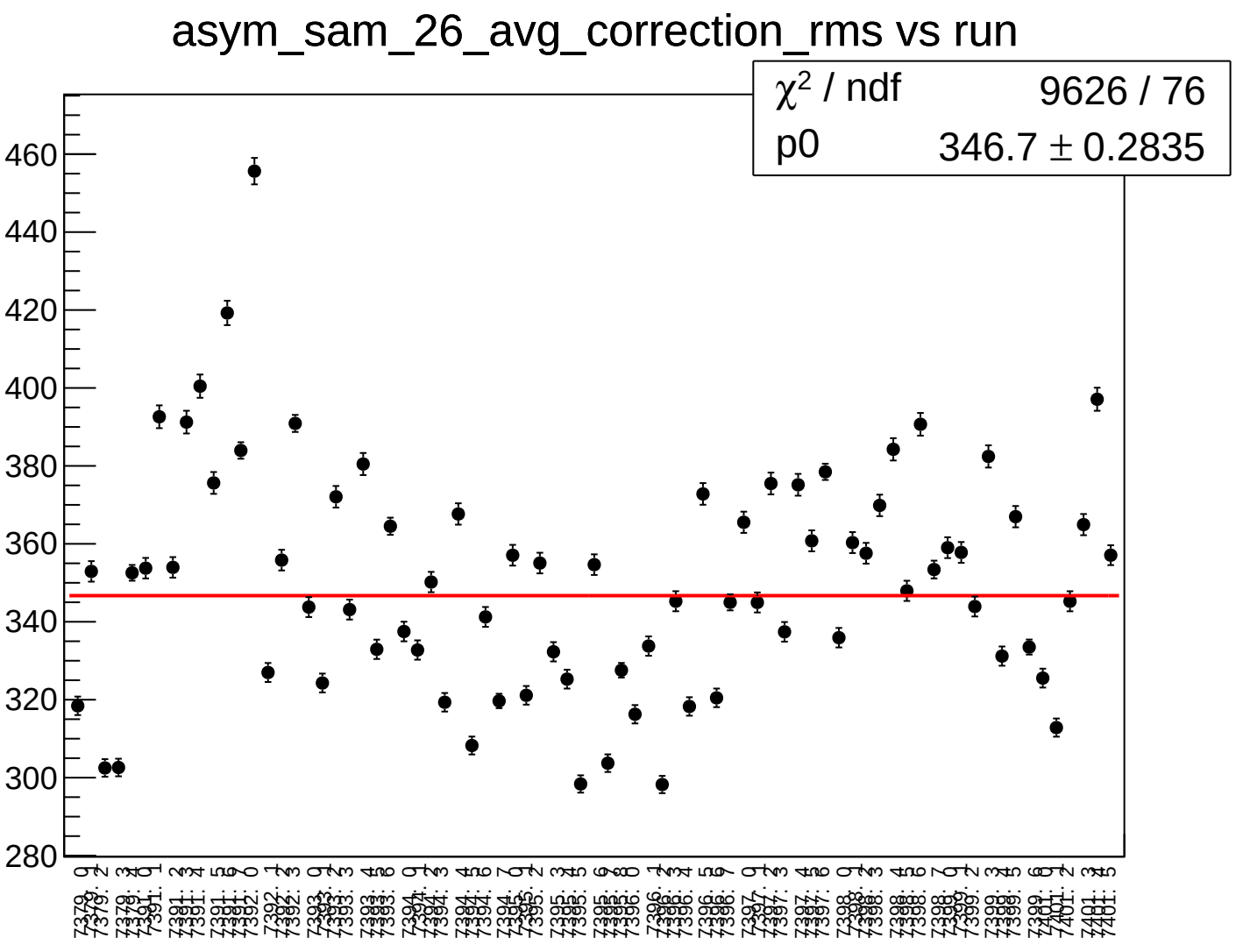

reg_asym_sam_26_avg_mean vs run
χ² / ndf 85.17 / 76
p0 33.83 ± 76.62
2000
1000
0
−1000
−2000
pull
Entries 77
Mean −139.5
Std Dev 116.9
2
1
0
−1
−2

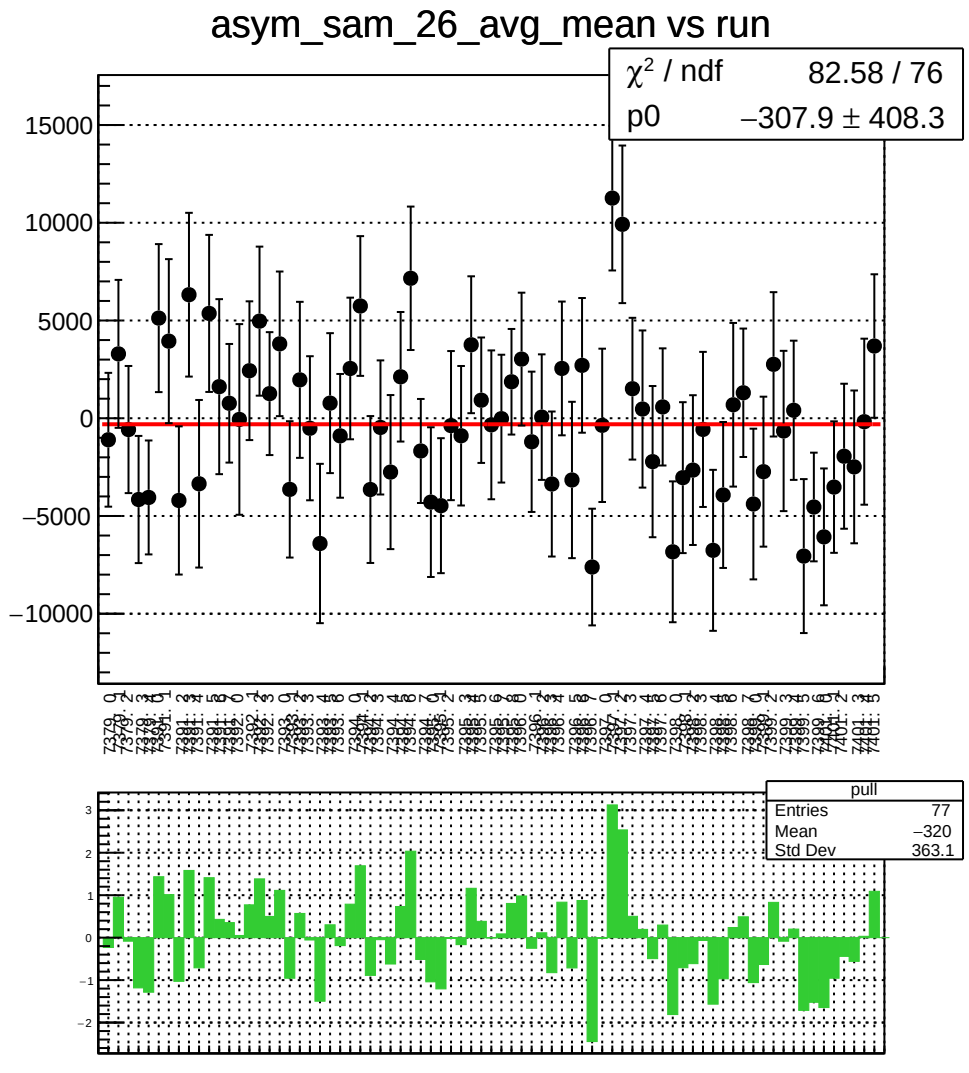

pull1D
Entries 77
Mean 0.002365
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

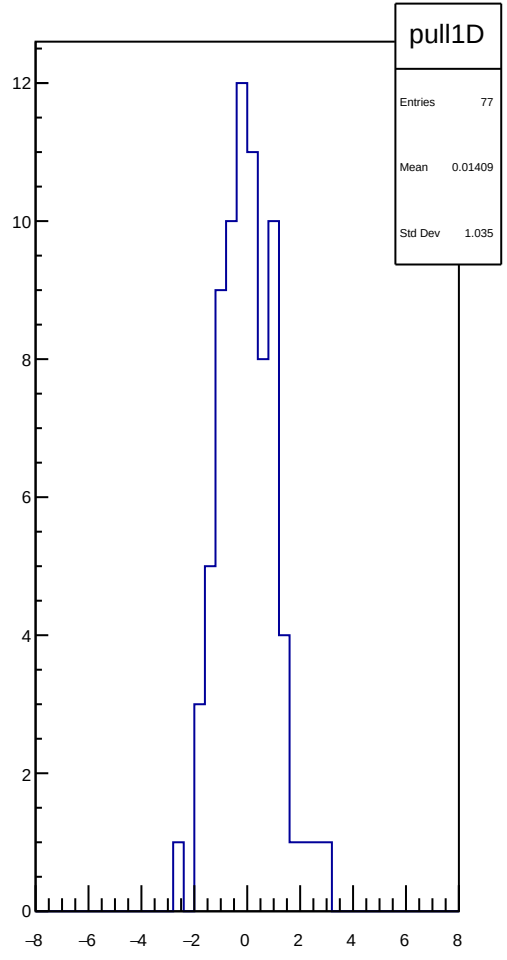

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 3676 / 76
p0 66.39 ± 0.05418
80
75
70
65
60

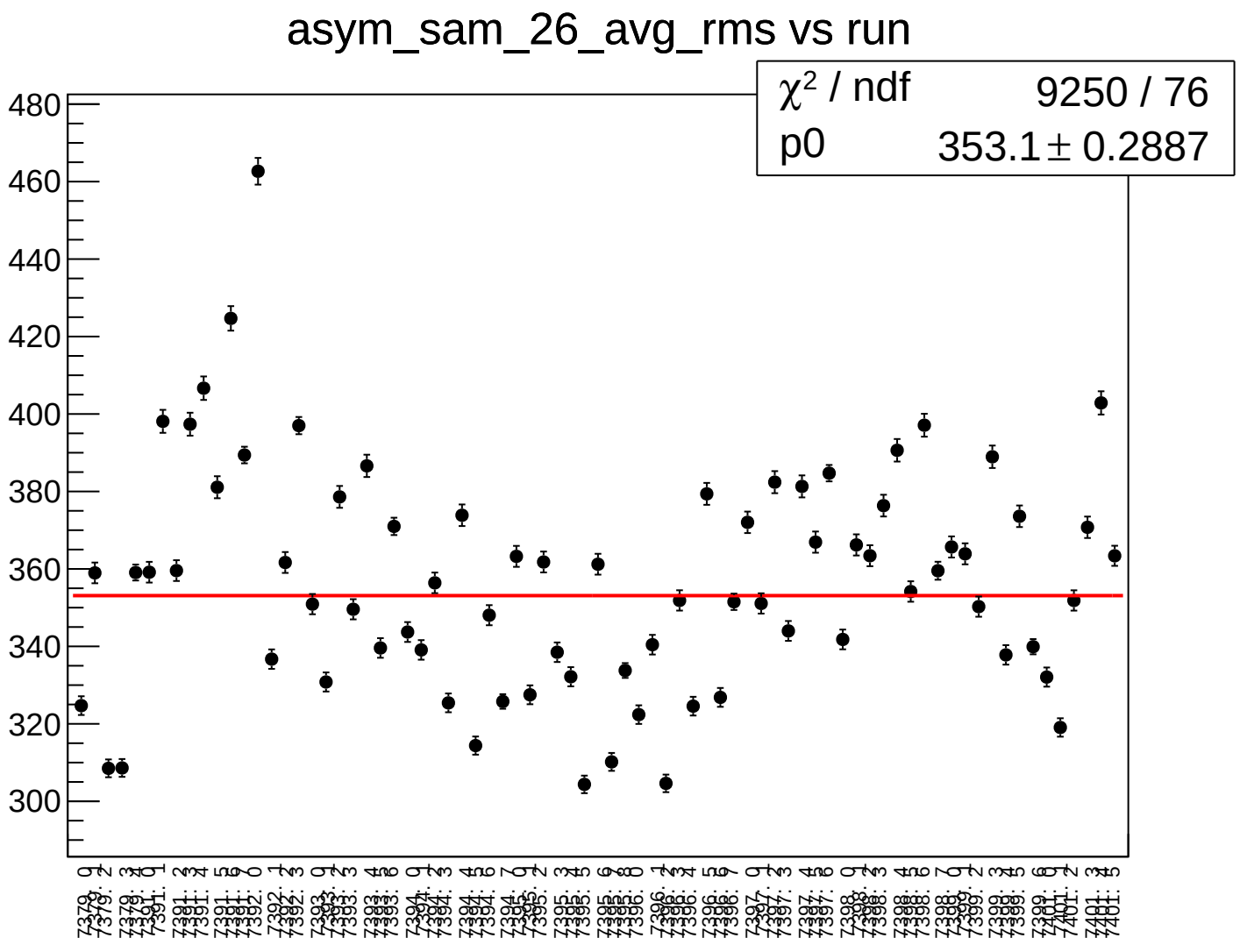

asym_sam_26_avg_correction_mean vs run
χ² / ndf 84.18 / 76
p0 346.7 ± 400.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 77
Mean −313.7
Std Dev 357.7
3
2
1
0
−1
−2
−3

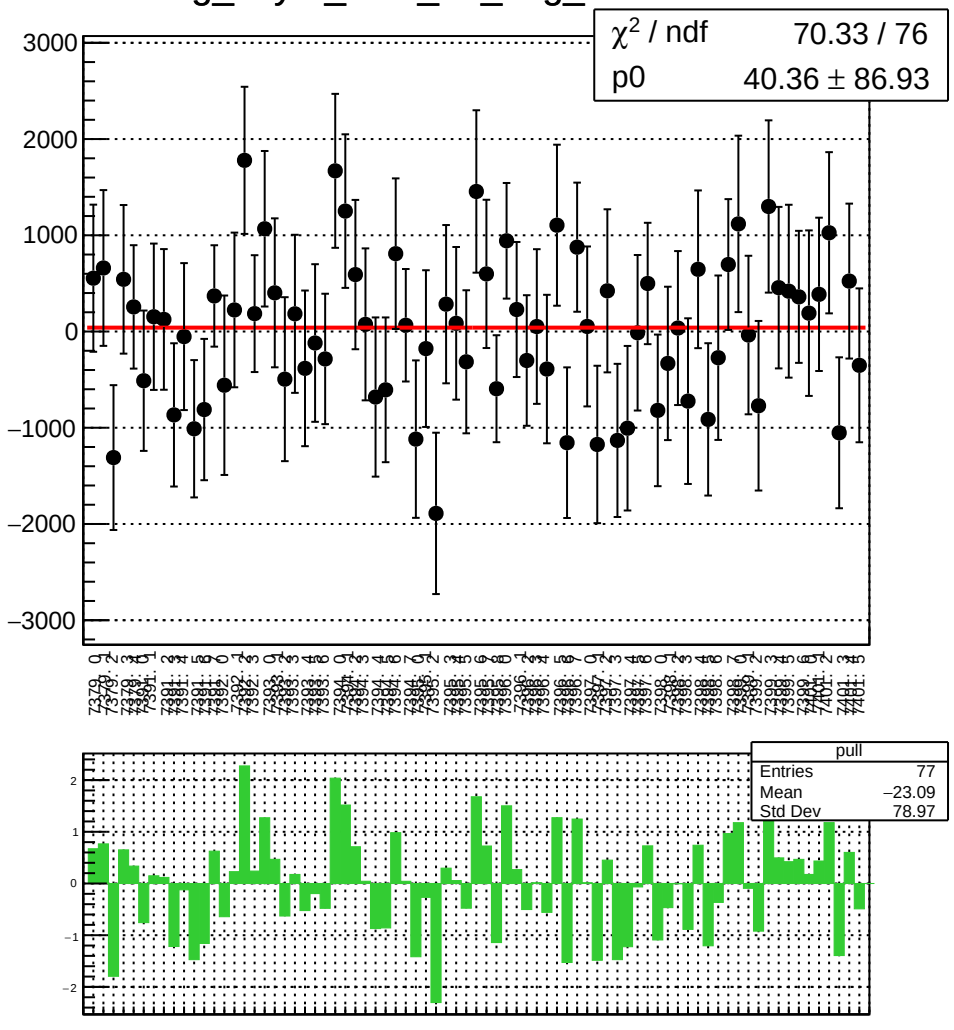

pull1D
Entries 77
Mean −0.0144
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

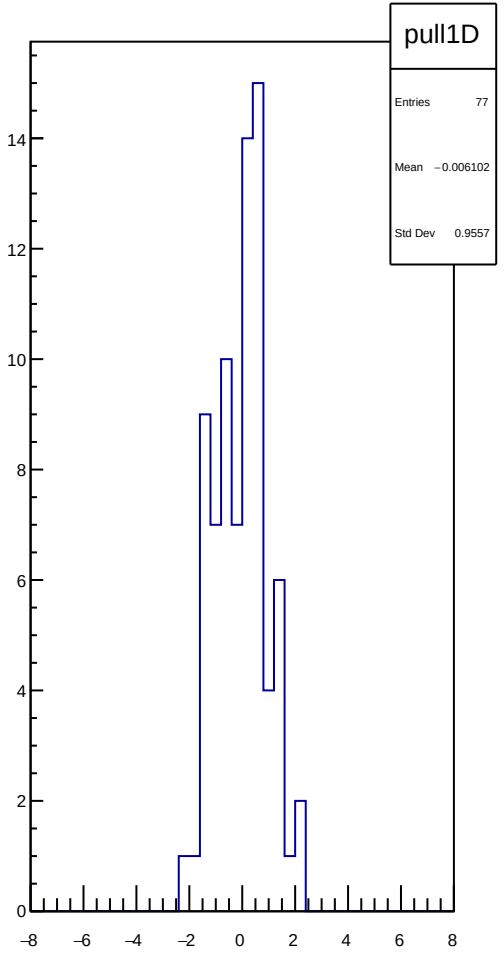

asym_sam_26_avg_correction_rms vs run
χ² / ndf 9626 / 76
p0 346.7 ± 0.2835
460
440
420
400
380
360
340
320
300
280

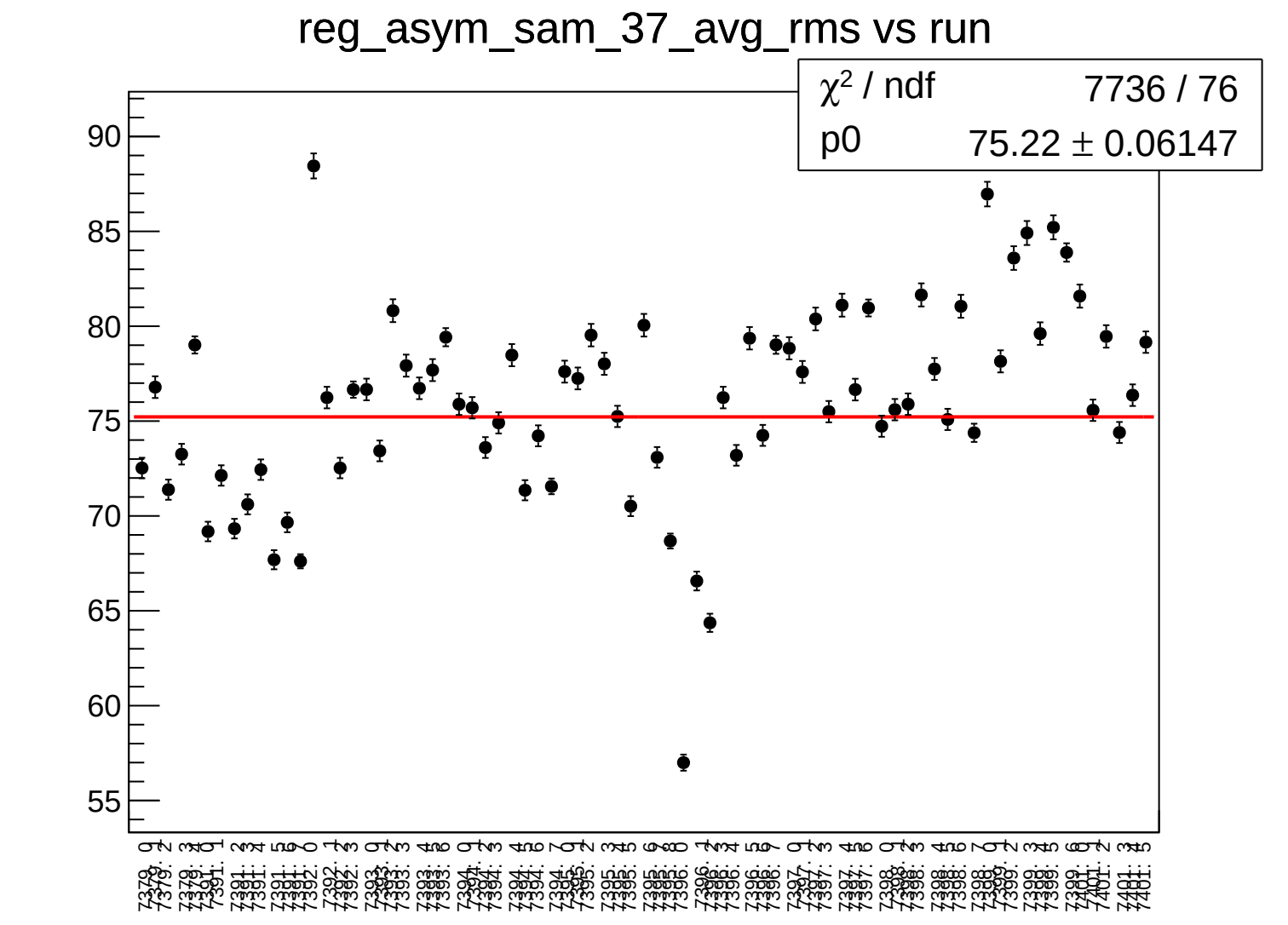

asym_sam_26_avg_mean vs run
χ² / ndf 82.58 / 76
p0 −307.9 ± 408.3
15000
10000
5000
0
−5000
−10000
pull
Entries 77
Mean −320
Std Dev 363.1
3
2
1
0
−1
−2

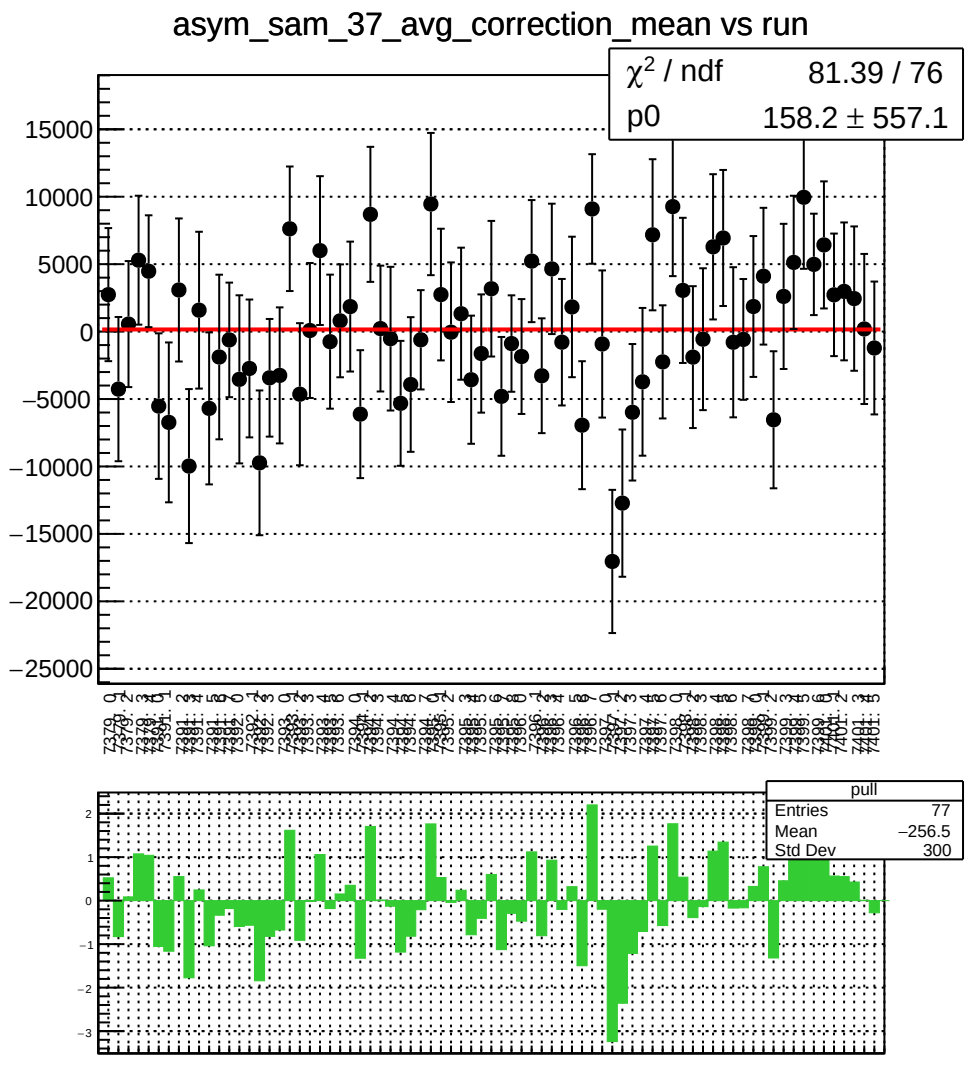

pull1D
Entries 77
Mean 0.01409
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

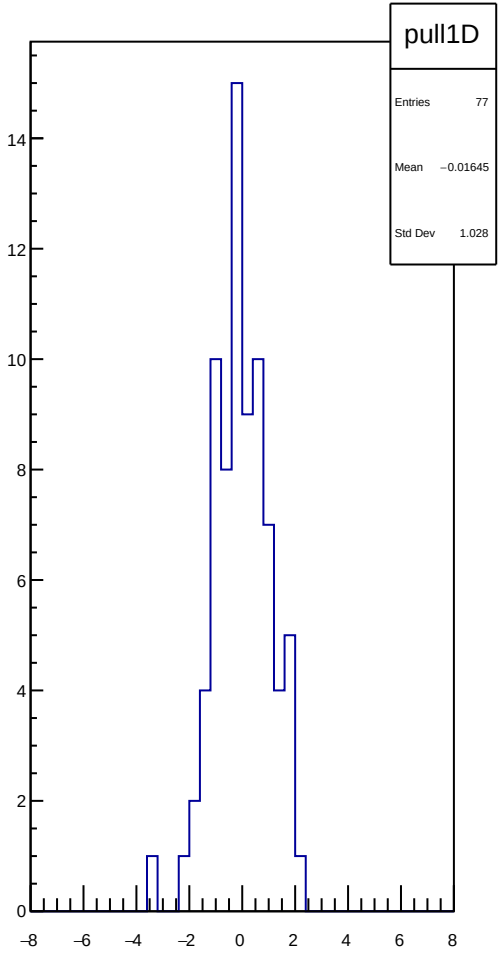

asym_sam_26_avg_rms vs run
χ² / ndf 9250 / 76
p0 353.1 ± 0.2887
480
460
440
420
400
380
360
340
320
300

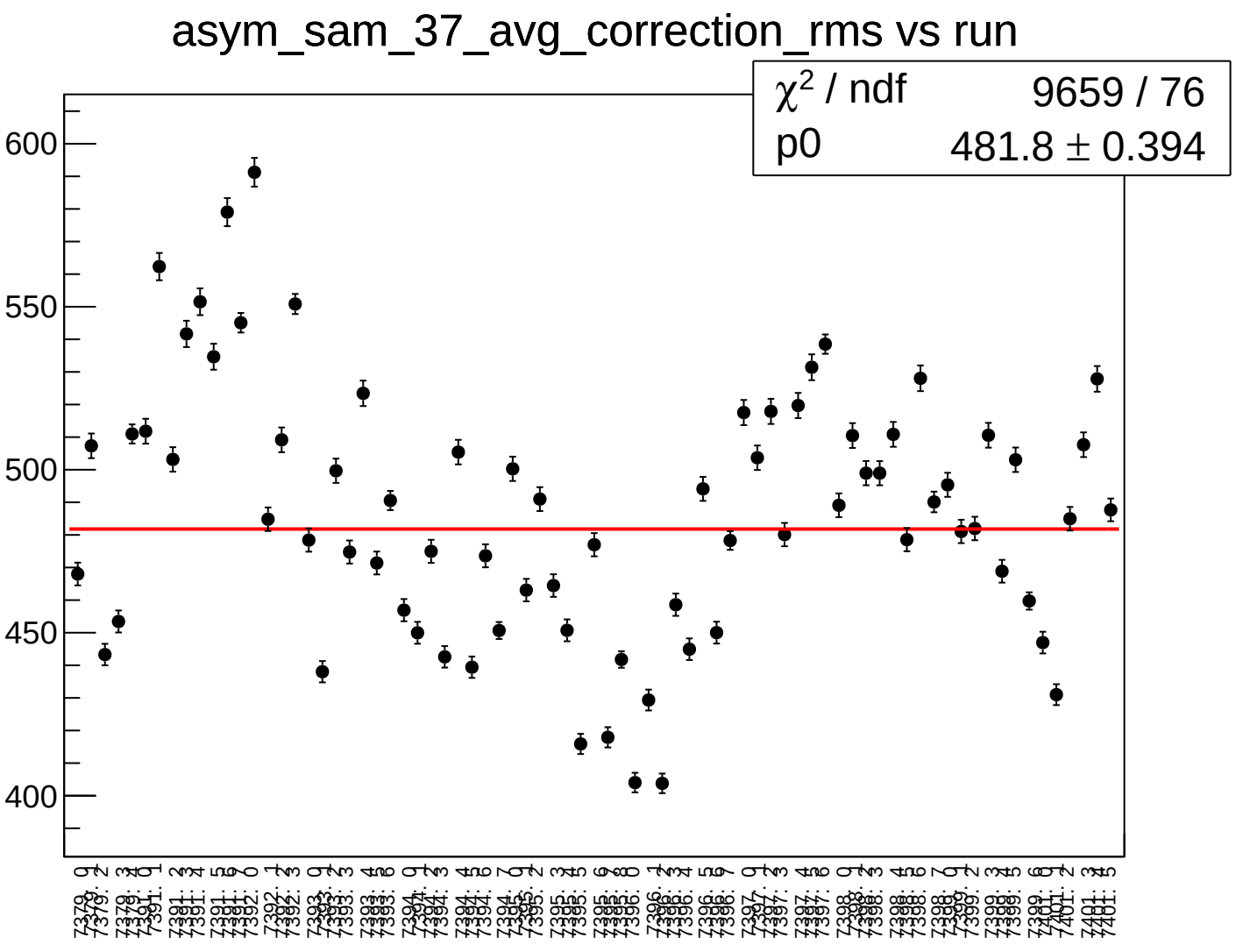

reg_asym_sam_37_avg_mean vs run
χ² / ndf 70.33 / 76
p0 40.36 ± 86.93
pull
Entries 77
Mean −23.09
Std Dev 78.97

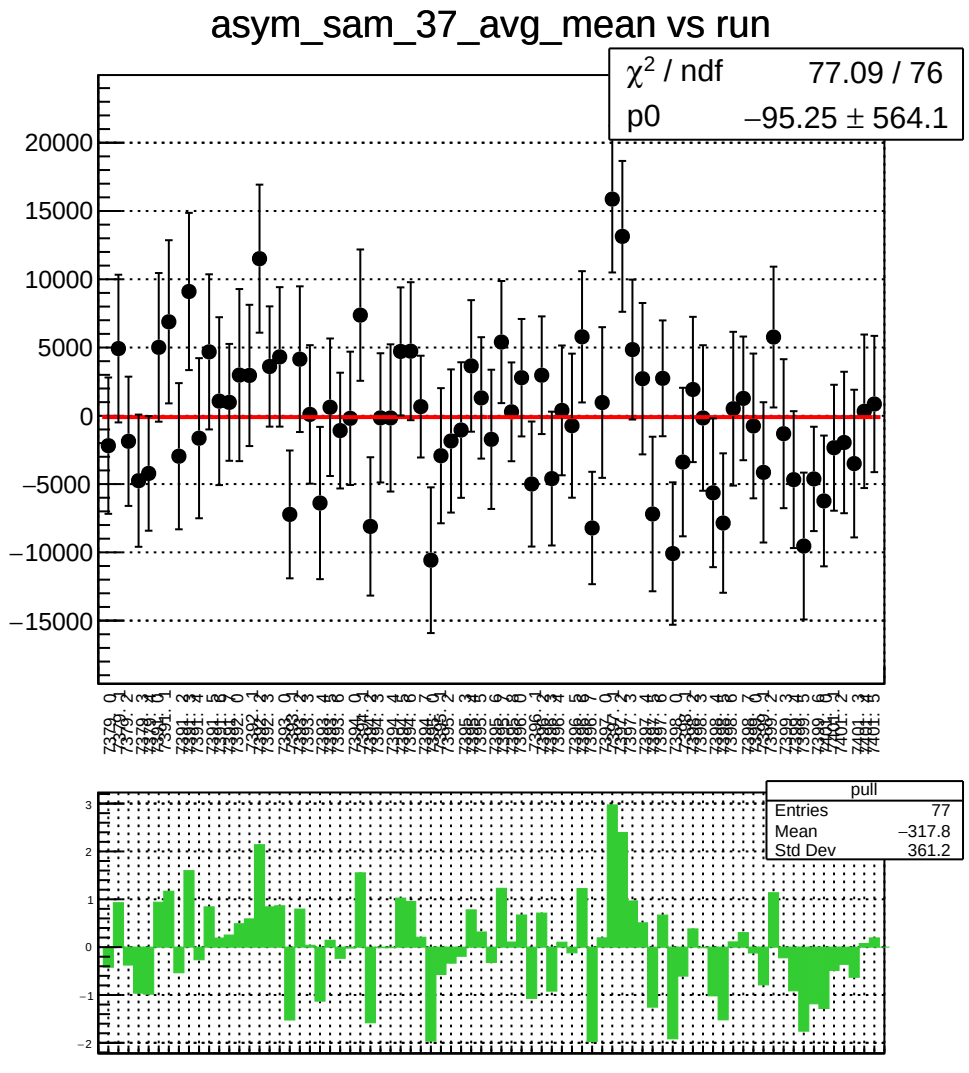

pull1D
Entries 77
Mean −0.006102
Std Dev 0.9557

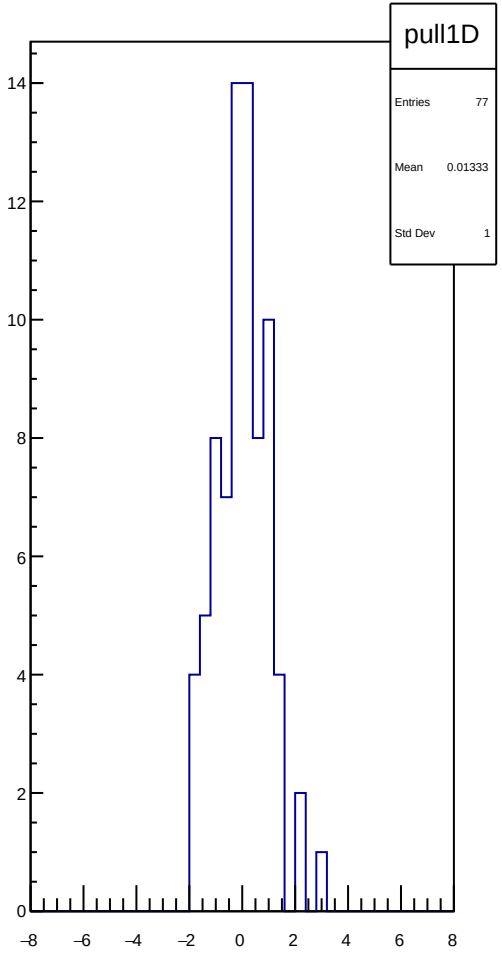

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 7736 / 76
p0 75.22 ± 0.06147
90
85
80
75
70
65
60
55

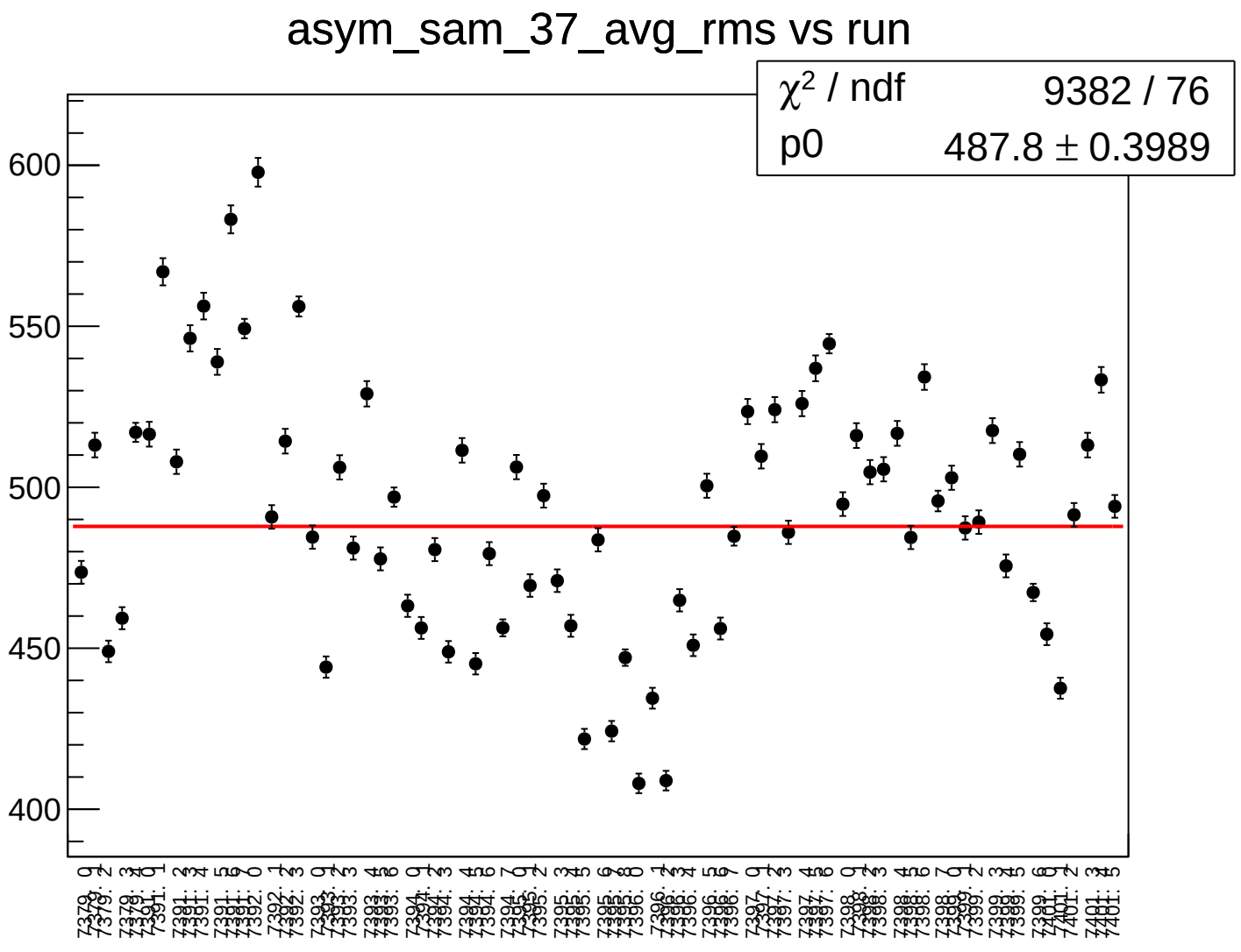

asym_sam_37_avg_correction_mean vs run
χ² / ndf 81.39 / 76
p0 158.2 ± 557.1
pull
Entries 77
Mean −256.5
Std Dev 300

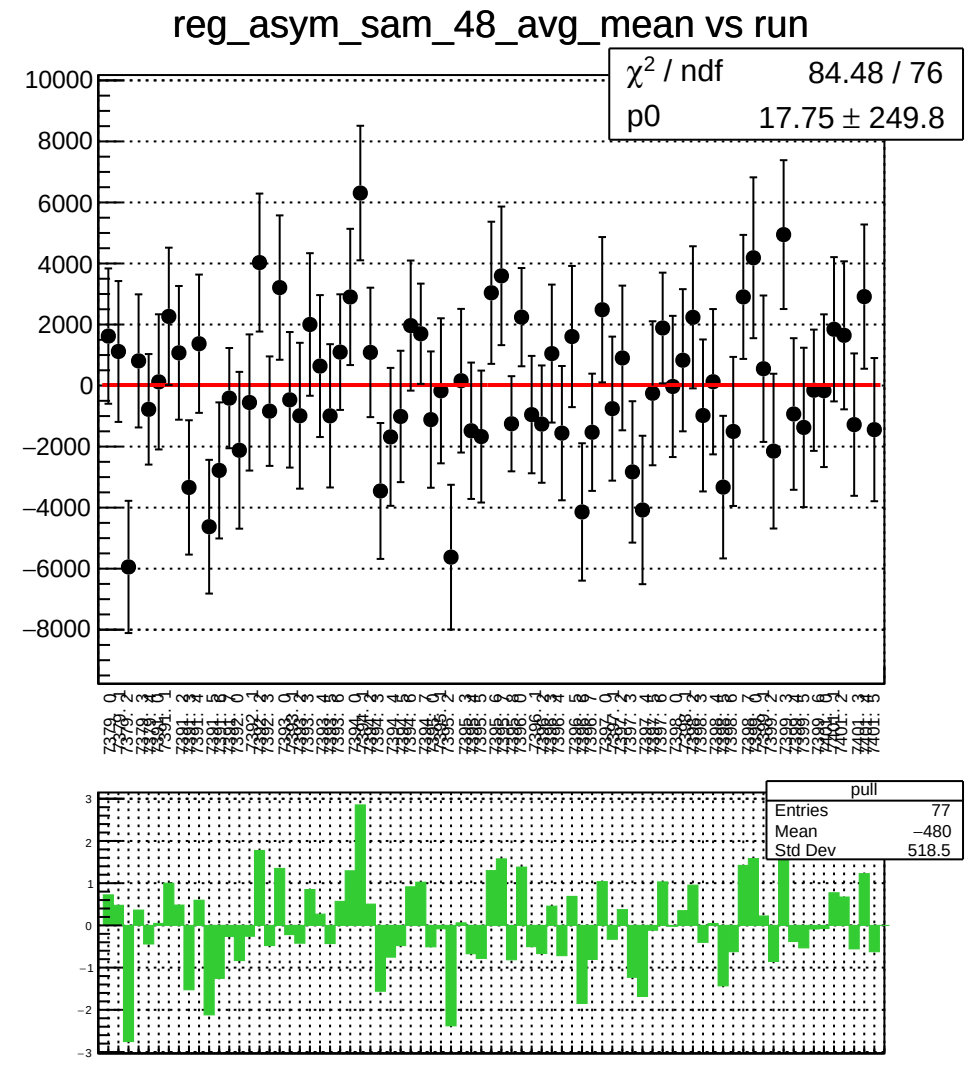

pull1D
Entries 77
Mean −0.01645
Std Dev 1.028

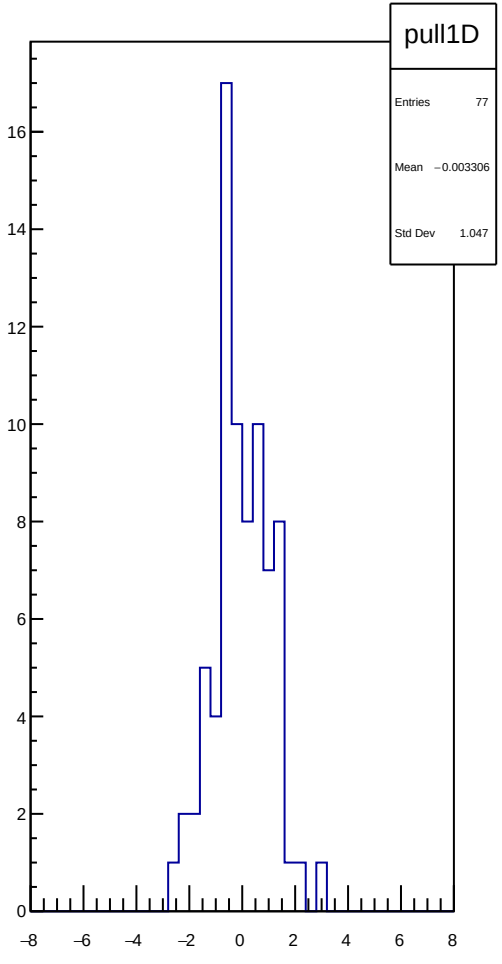

asym_sam_37_avg_correction_rms vs run
χ² / ndf 9659 / 76
p0 481.8 ± 0.394
600
550
500
450
400

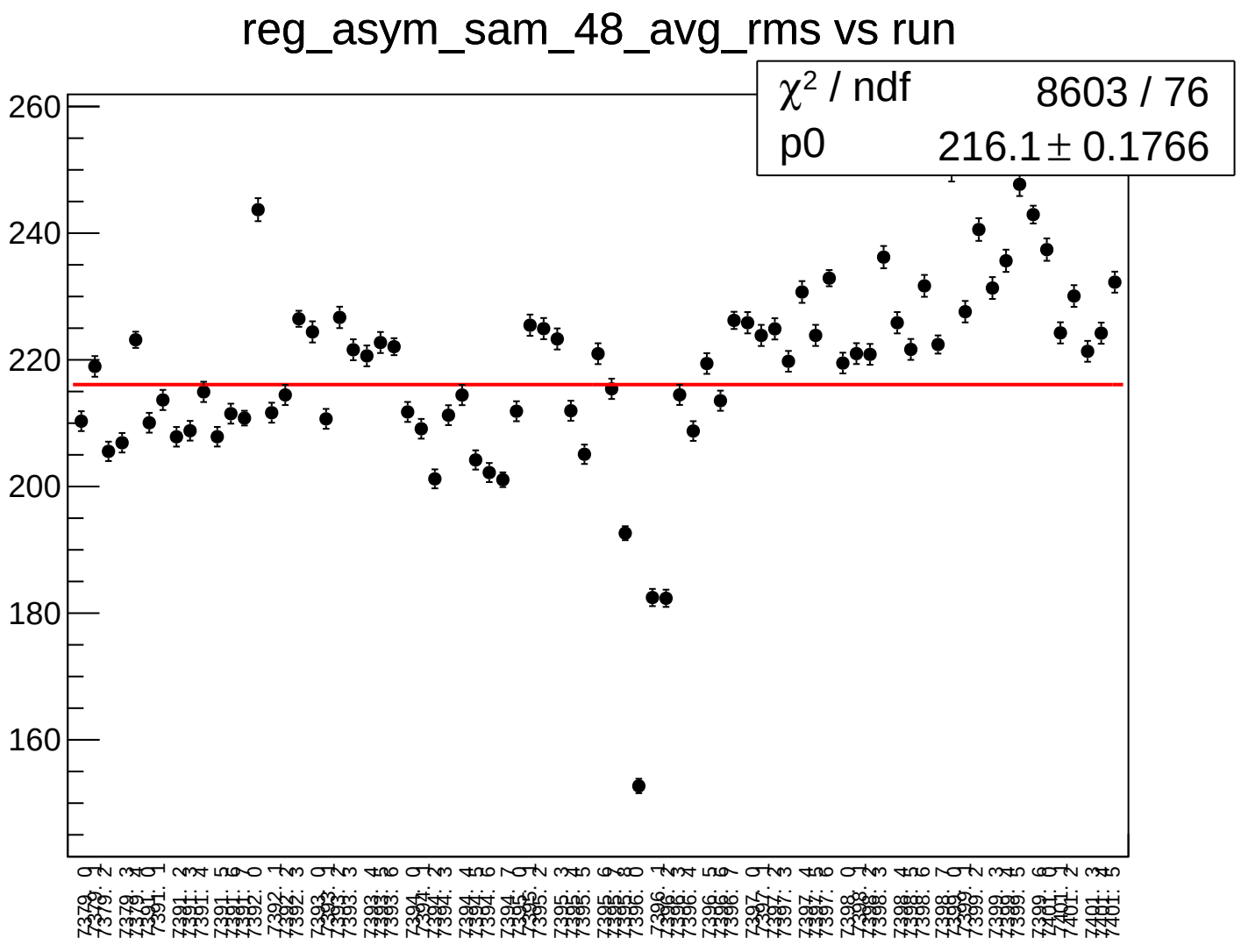

asym_sam_37_avg_mean vs run
χ² / ndf 77.09 / 76
p0 −95.25 ± 564.1
pull
Entries 77
Mean −317.8
Std Dev 361.2

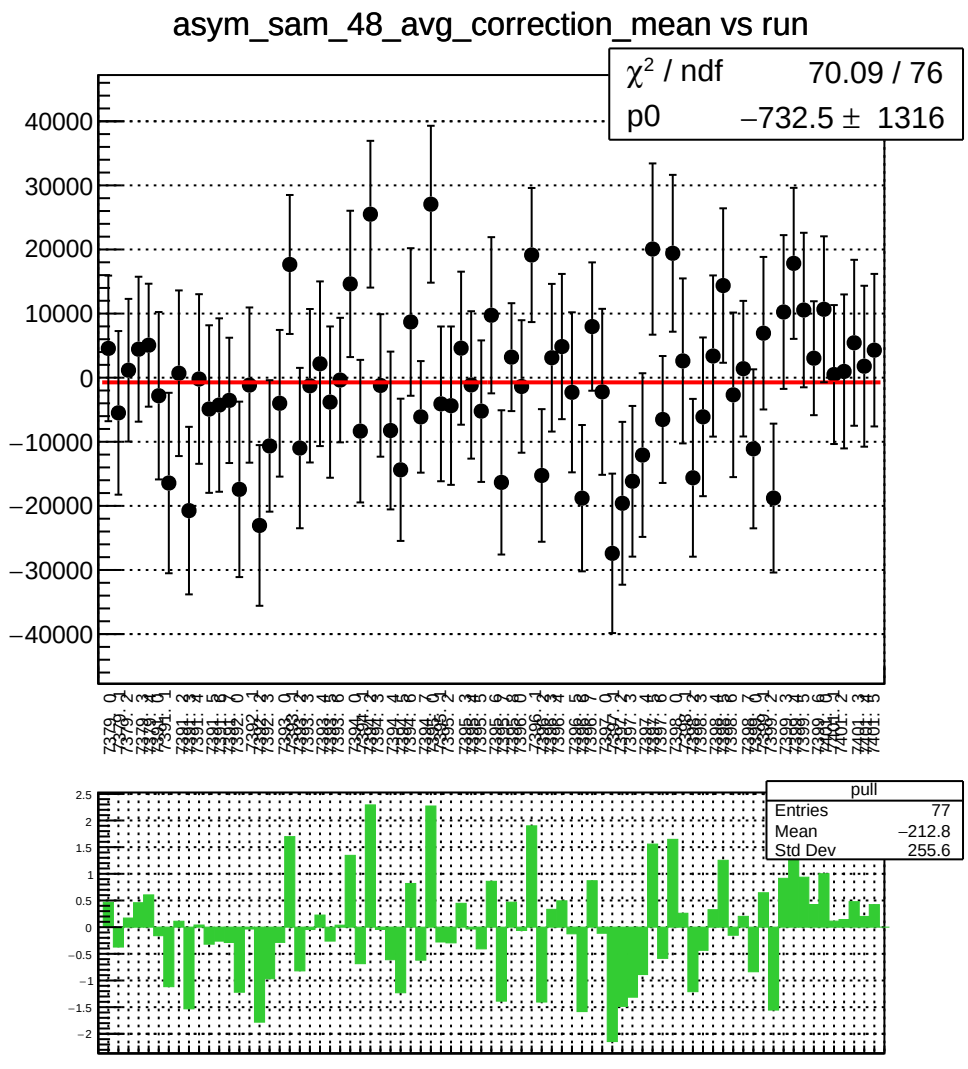

pull1D
Entries 77
Mean 0.01333
Std Dev 1

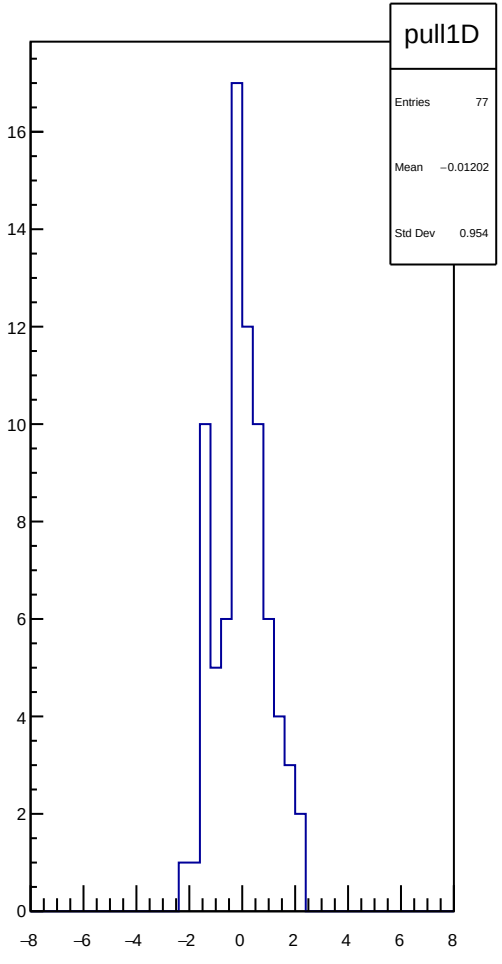

asym_sam_37_avg_rms vs run
χ^2 / ndf 9382 / 76
p0 487.8 ± 0.3989
600
550
500
450
400

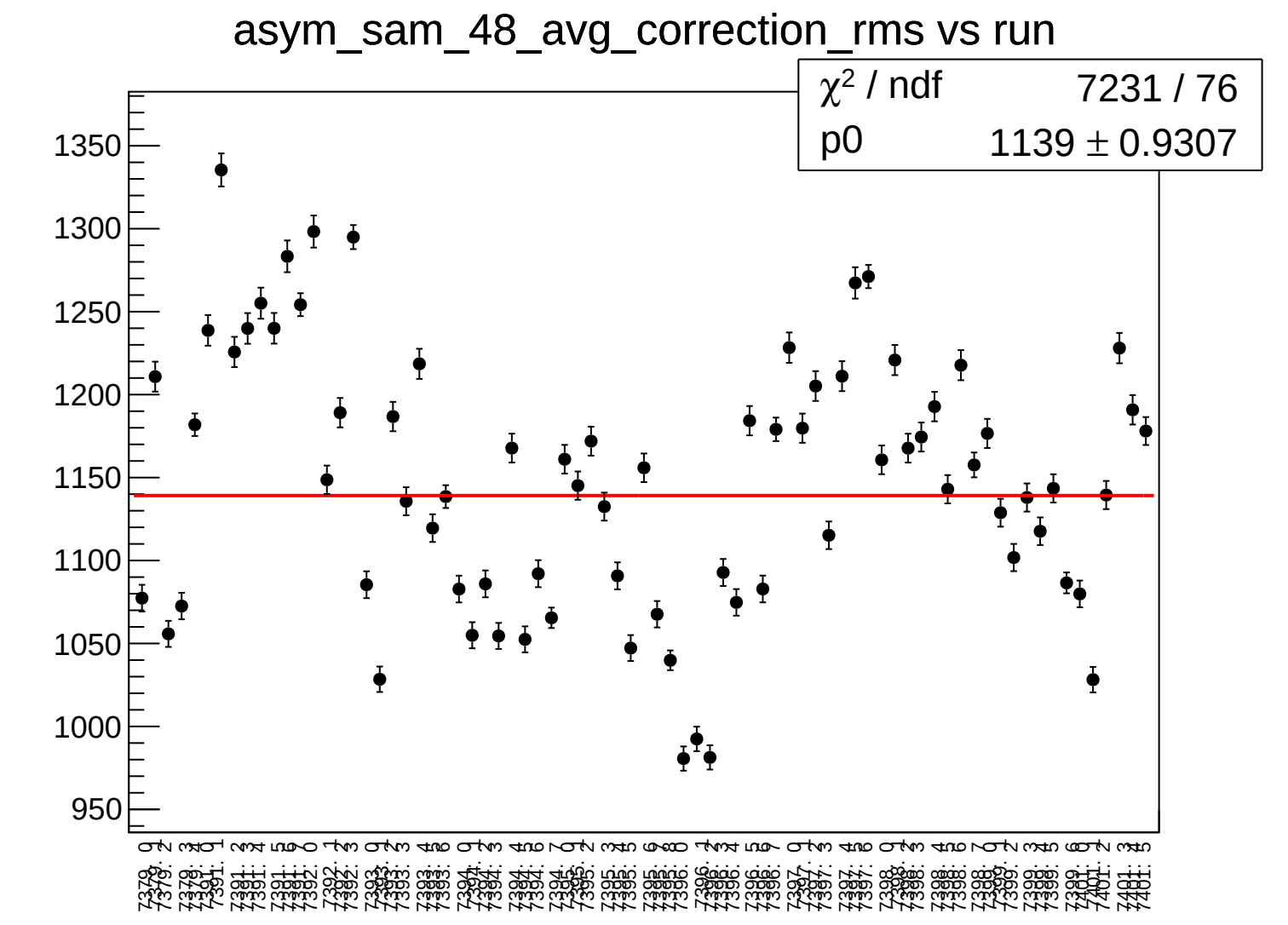

reg_asym_sam_48_avg_mean vs run
χ² / ndf 84.48 / 76
p0 17.75 ± 249.8
pull
Entries 77
Mean −480
Std Dev 518.5

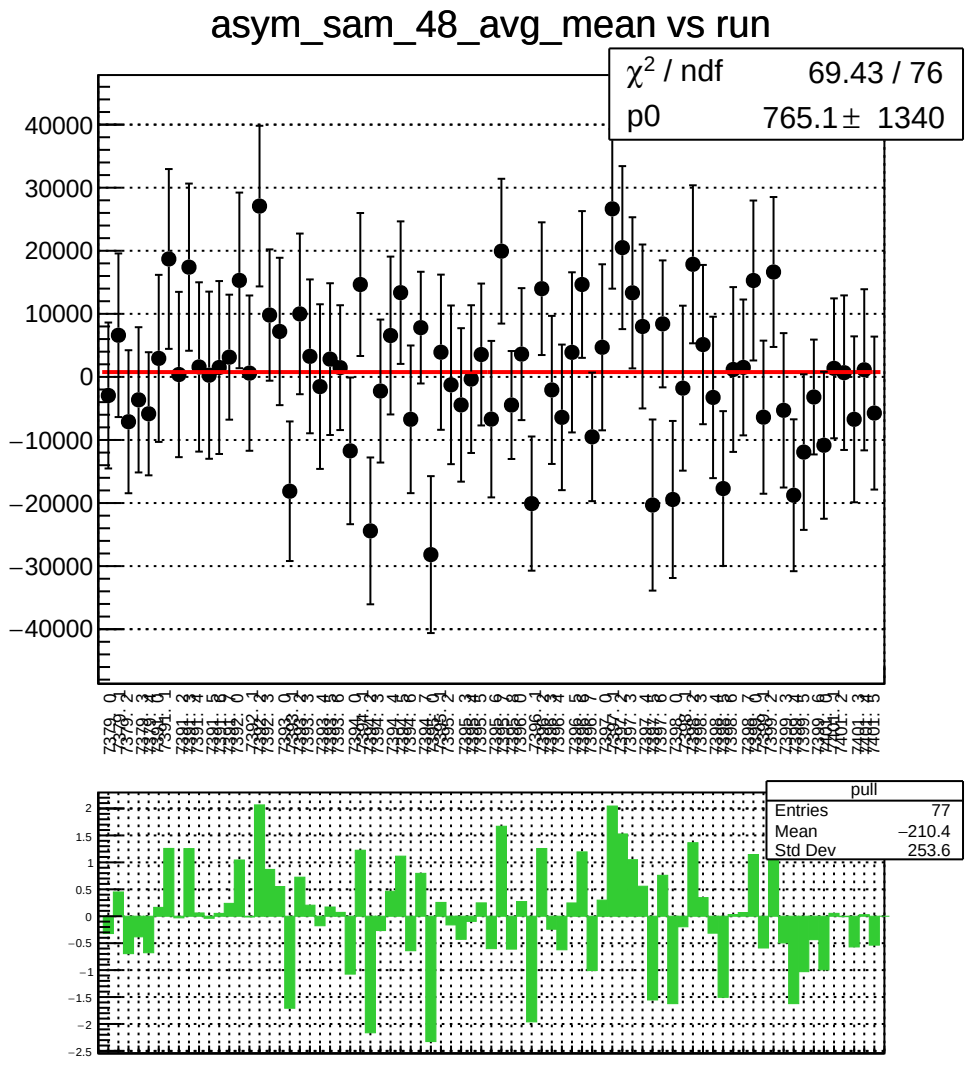

pull1D
Entries 77
Mean −0.003306
Std Dev 1.047

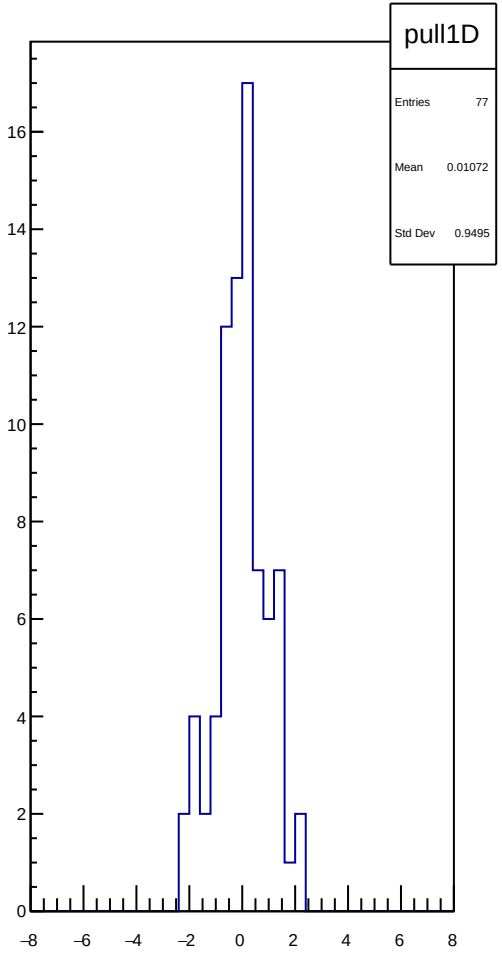

reg_asym_sam_48_avg_rms vs run
χ² / ndf 8603 / 76
p0 216.1 ± 0.1766
260
240
220
200
180
160

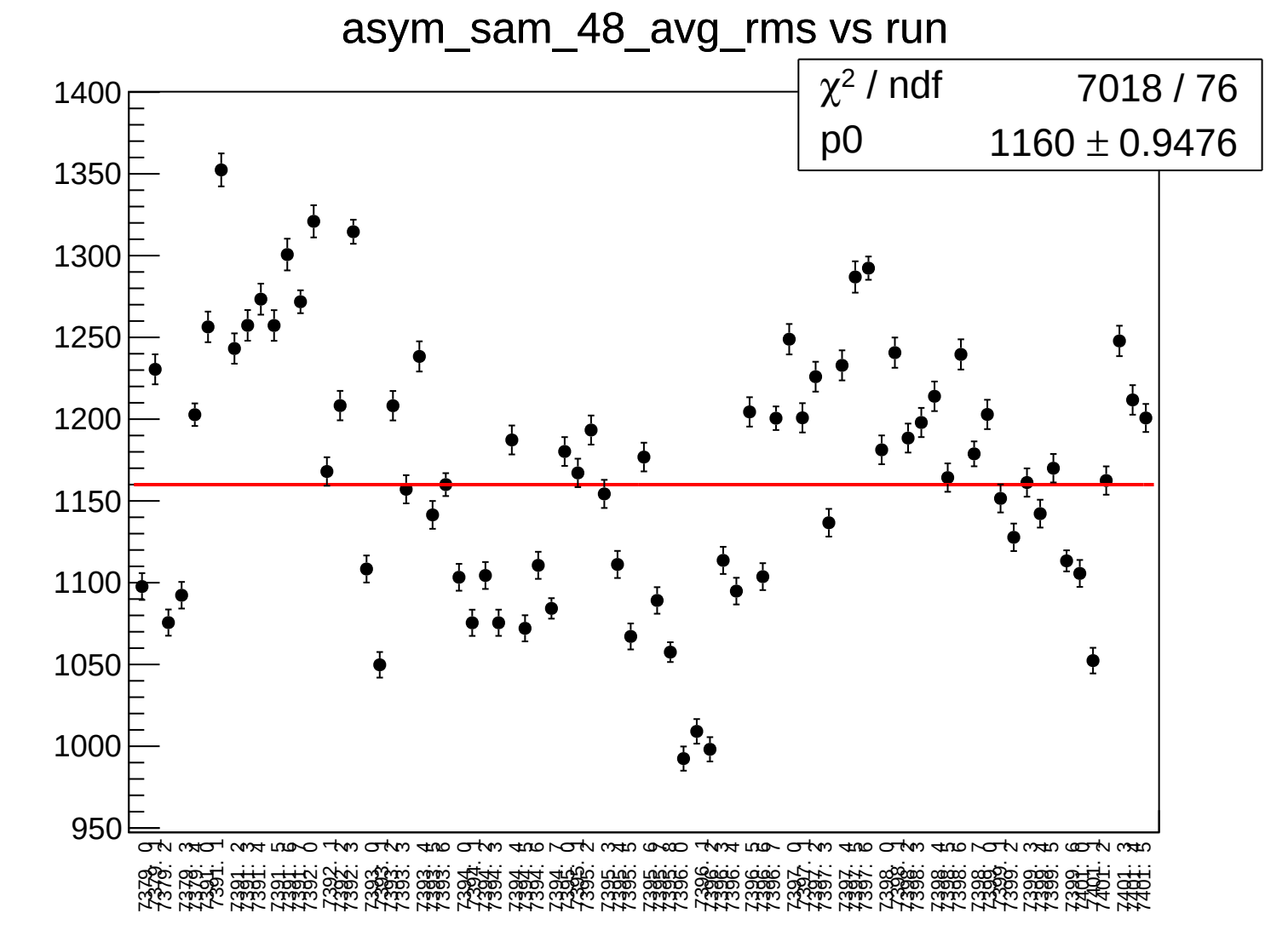

asym_sam_48_avg_correction_mean vs run
χ² / ndf 70.09 / 76
p0 −732.5 ± 1316
pull
Entries 77
Mean −212.8
Std Dev 255.6

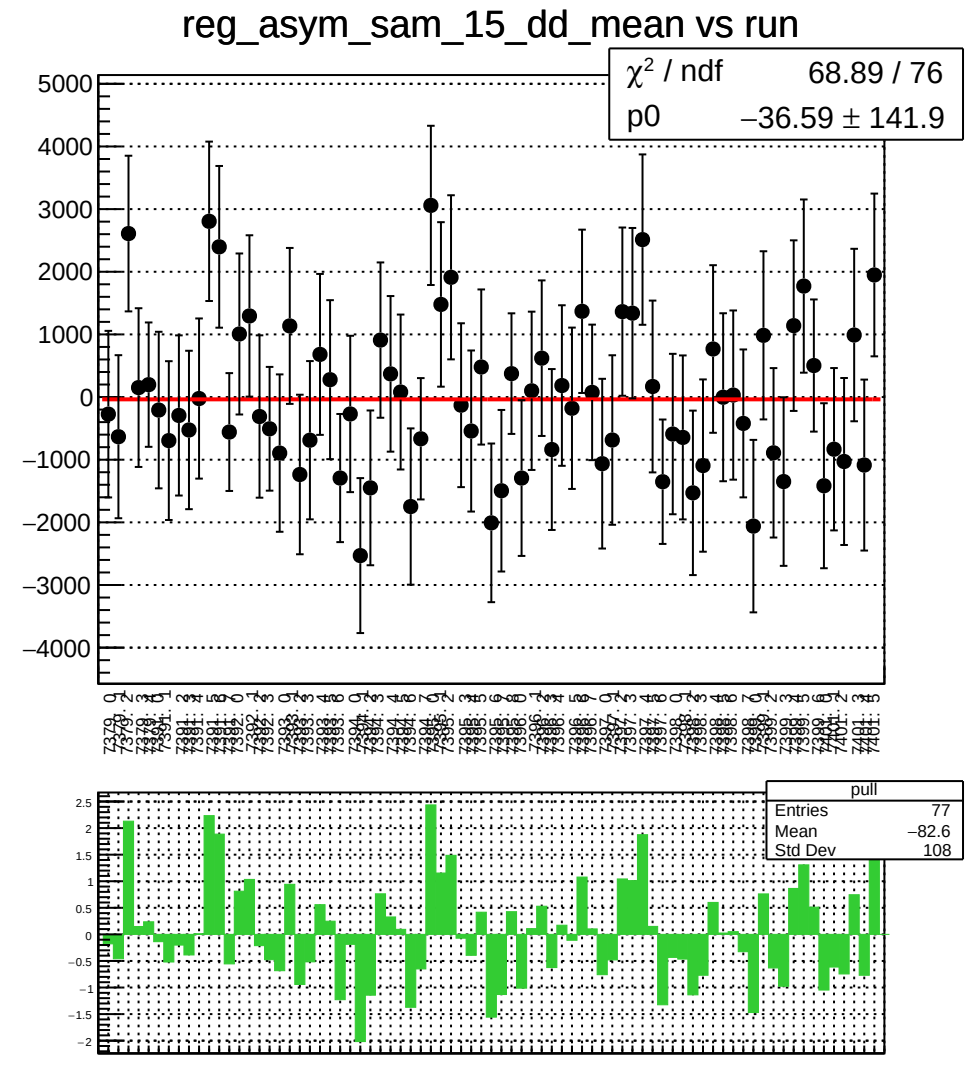

pull1D
Entries 77
Mean −0.01202
Std Dev 0.954

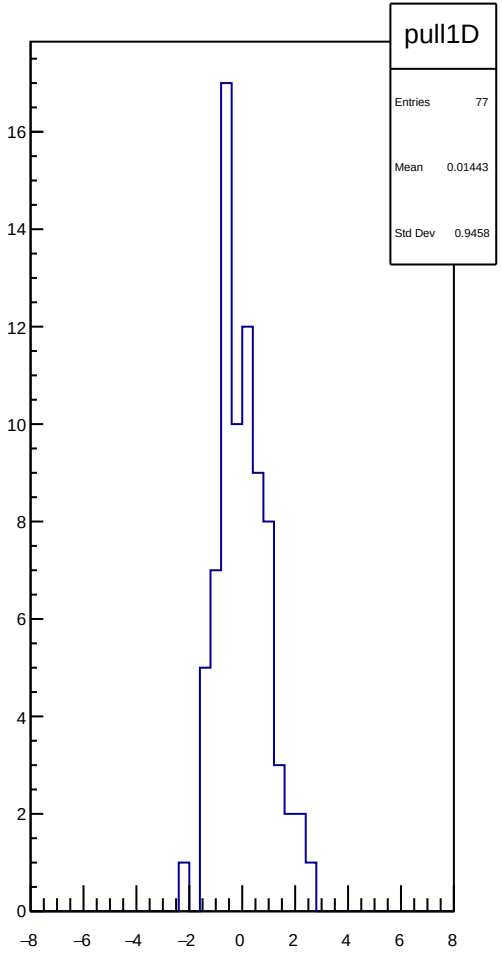

asym_sam_48_avg_correction_rms vs run
χ² / ndf 7231 / 76
p0 1139 ± 0.9307
1350
1300
1250
1200
1150
1100
1050
1000
950

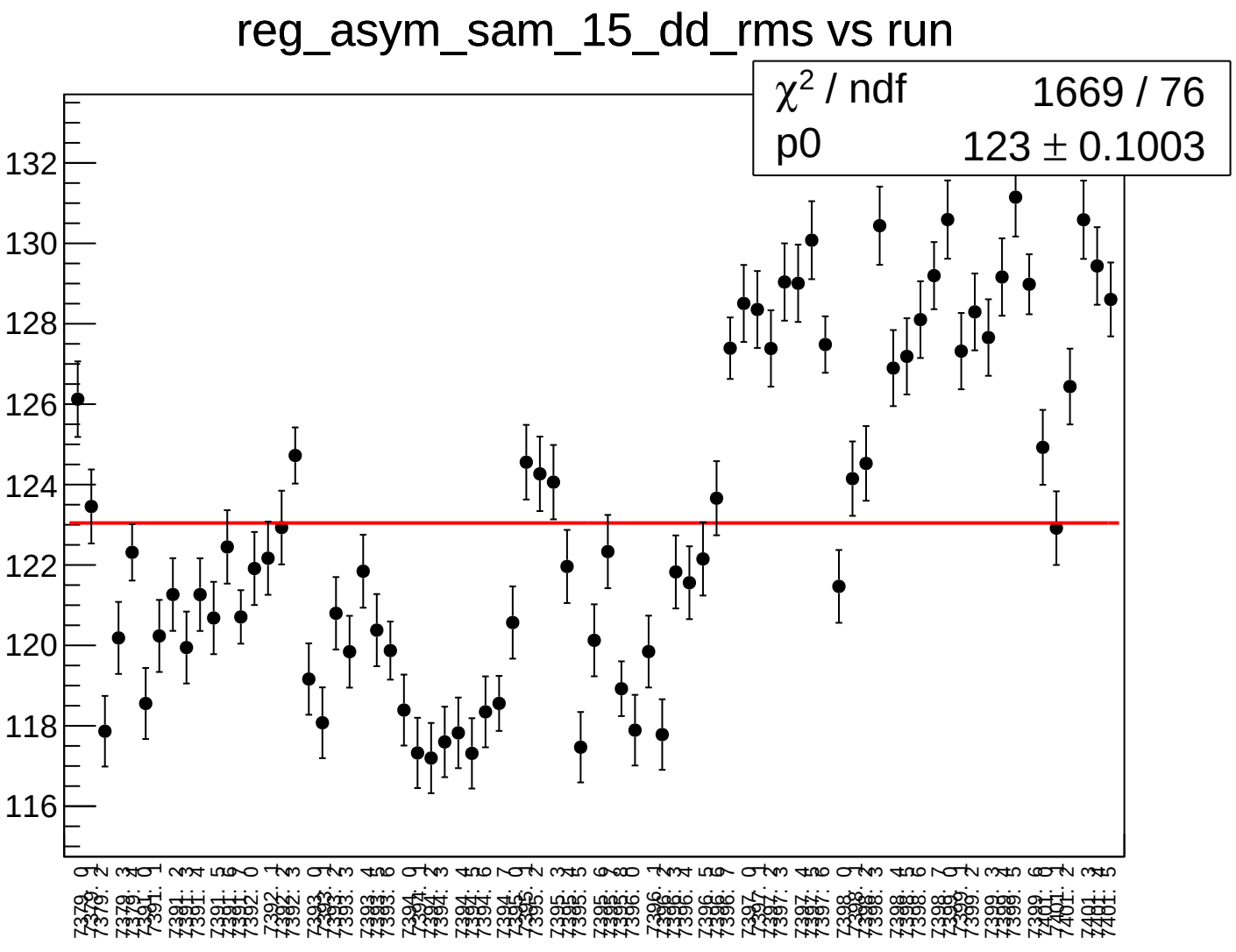

asym_sam_48_avg_mean vs run
χ² / ndf 69.43 / 76
p0 765.1 ± 1340
pull
Entries 77
Mean −210.4
Std Dev 253.6

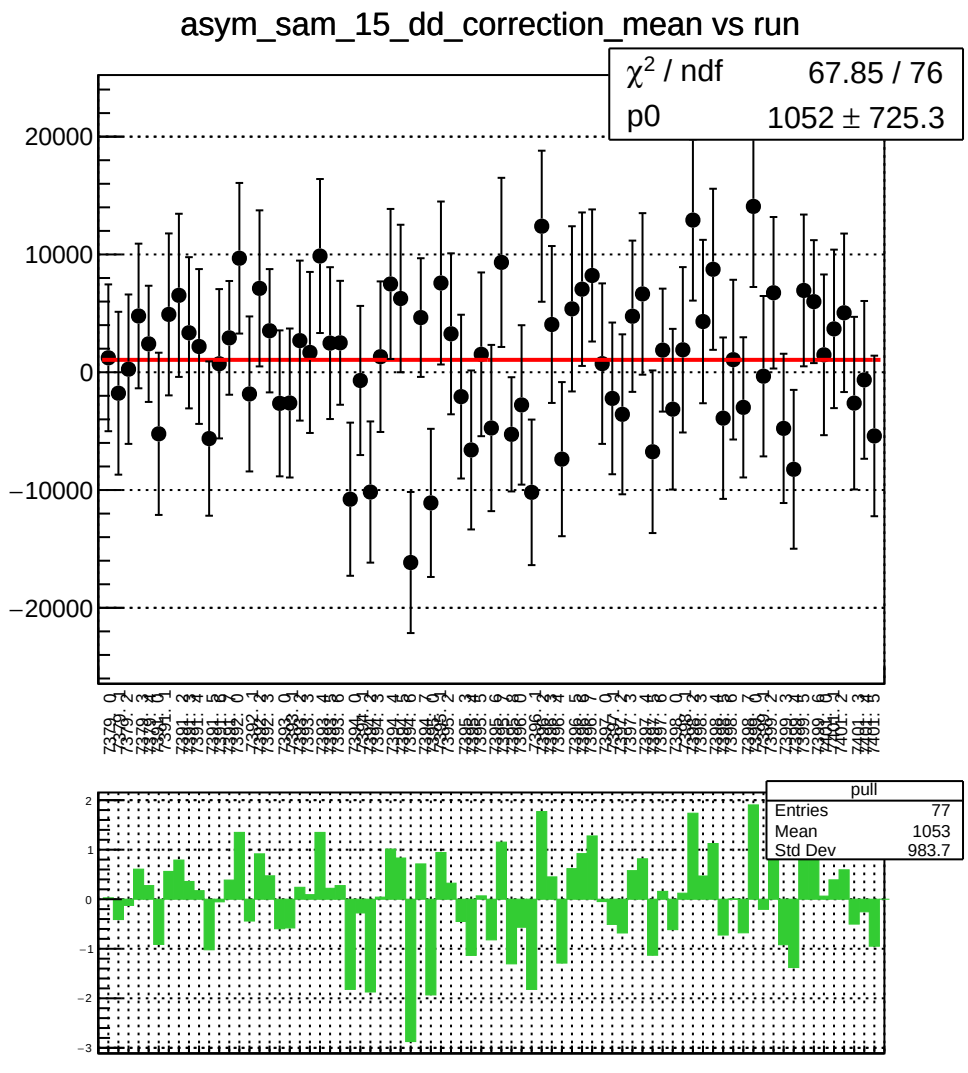

pull1D
Entries 77
Mean 0.01072
Std Dev 0.9495

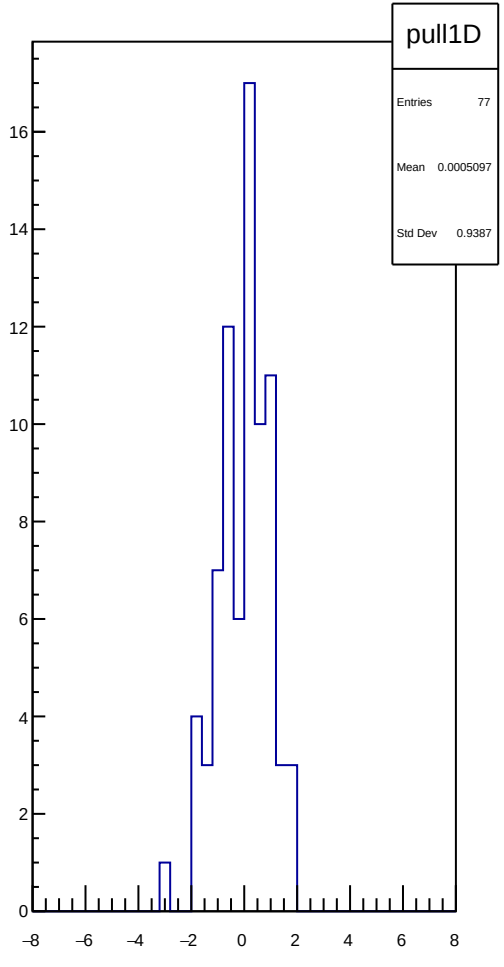

asym_sam_48_avg_rms vs run
χ² / ndf 7018 / 76
p0 1160 ± 0.9476
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

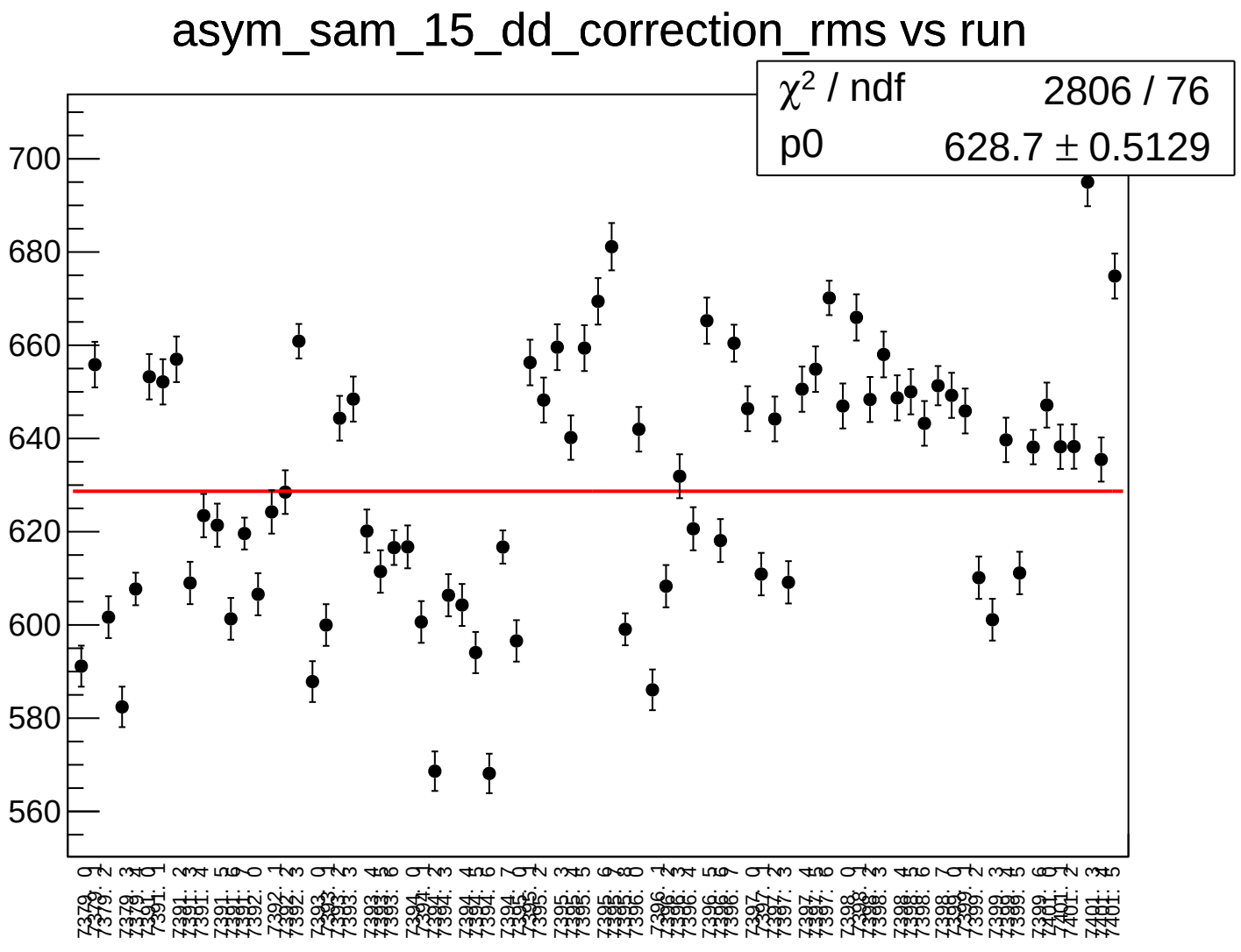

reg_asym_sam_15_dd_mean vs run
χ² / ndf 68.89 / 76
p0 −36.59 ± 141.9
pull
Entries 77
Mean −82.6
Std Dev 108

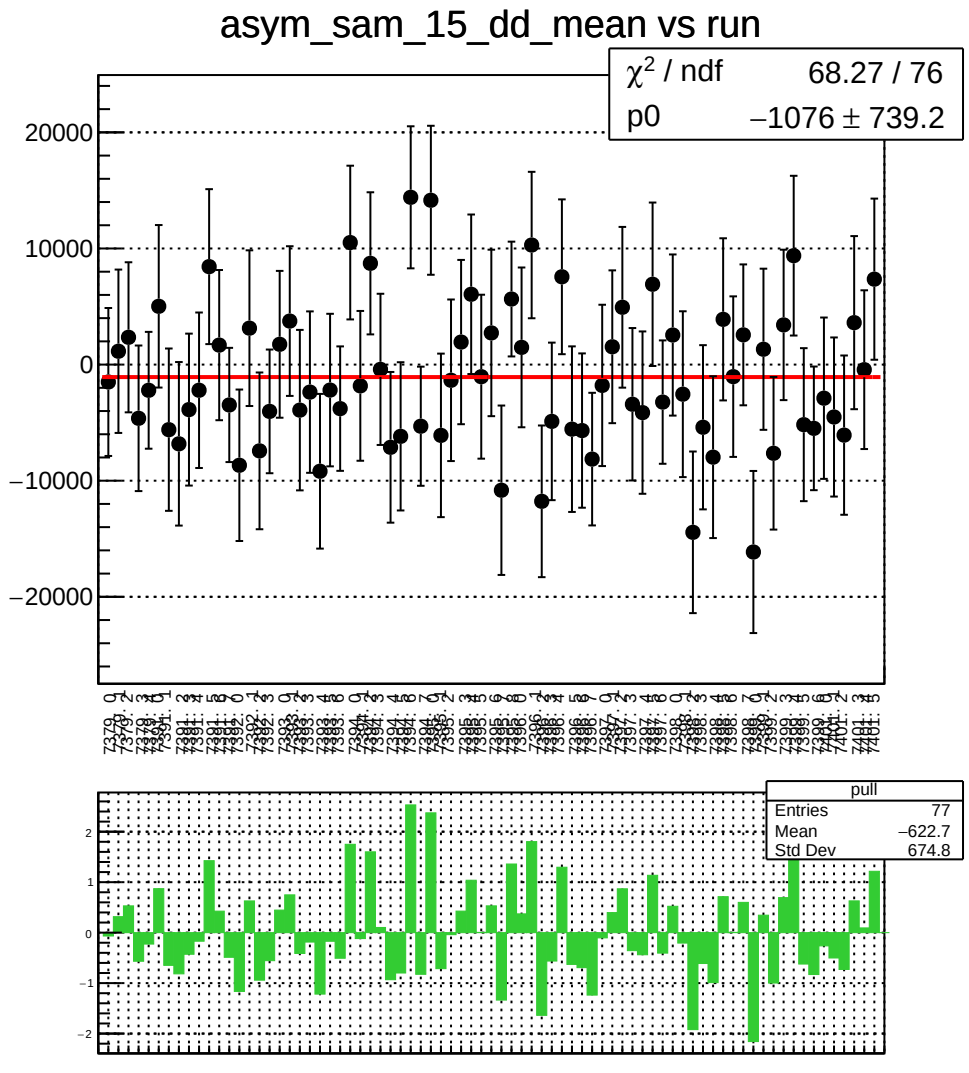

pull1D
Entries 77
Mean 0.01443
Std Dev 0.9458

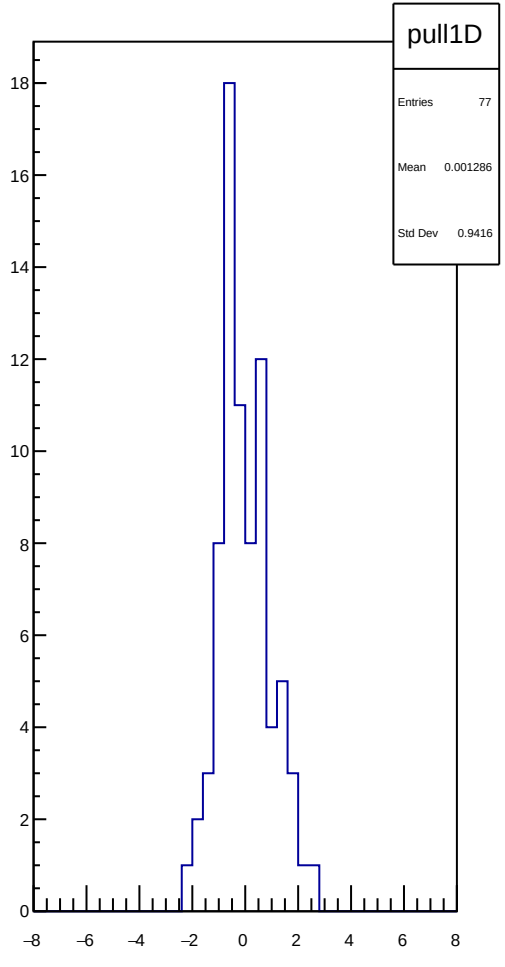

reg_asym_sam_15_dd_rms vs run
χ² / ndf 1669 / 76
p0 123 ± 0.1003
132
130
128
126
124
122
120
118
116

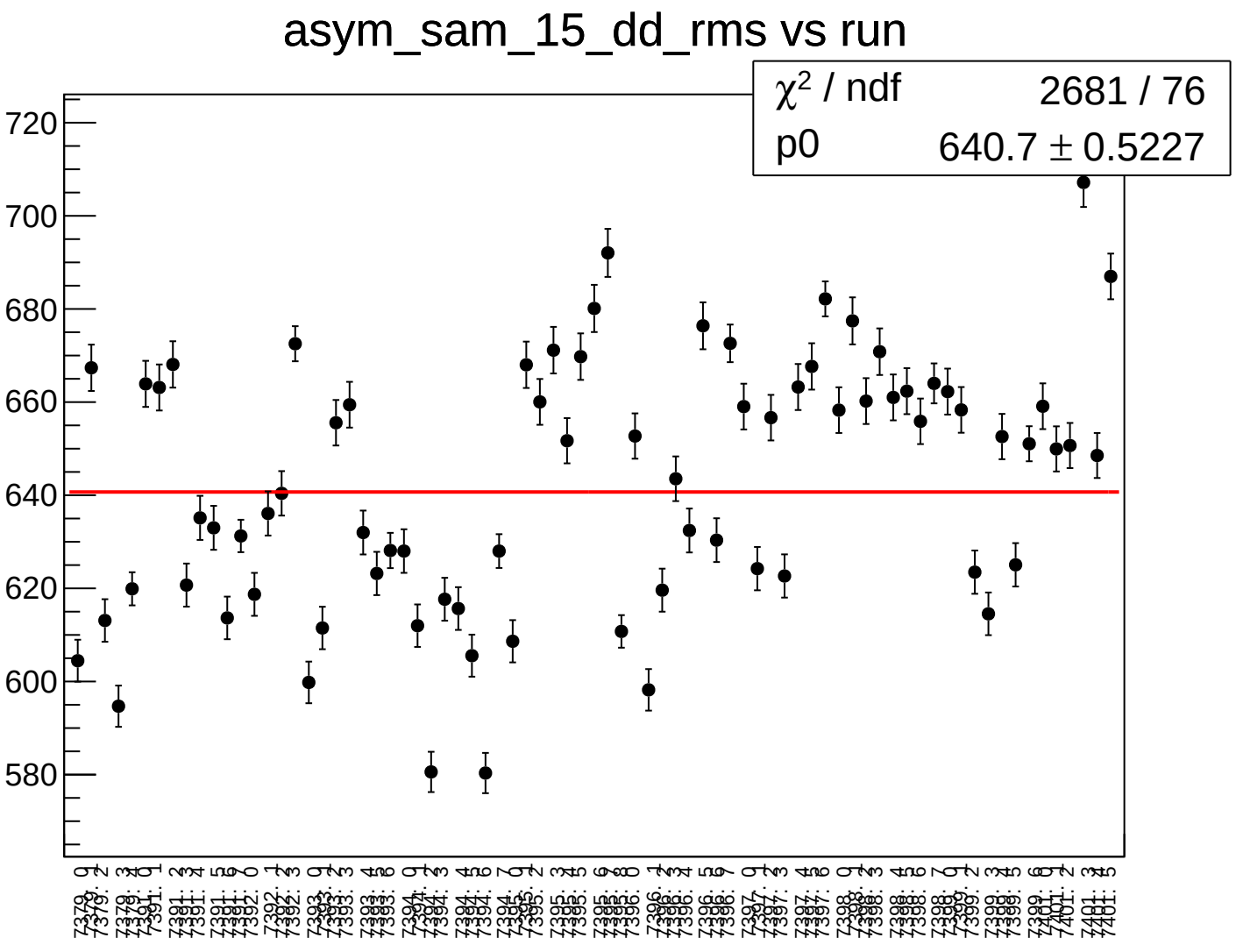

asym_sam_15_dd_correction_mean vs run
χ² / ndf 67.85 / 76
p0 1052 ± 725.3
20000
10000
0
−10000
−20000
pull
Entries 77
Mean 1053
Std Dev 983.7
2
1
0
−1
−2
−3

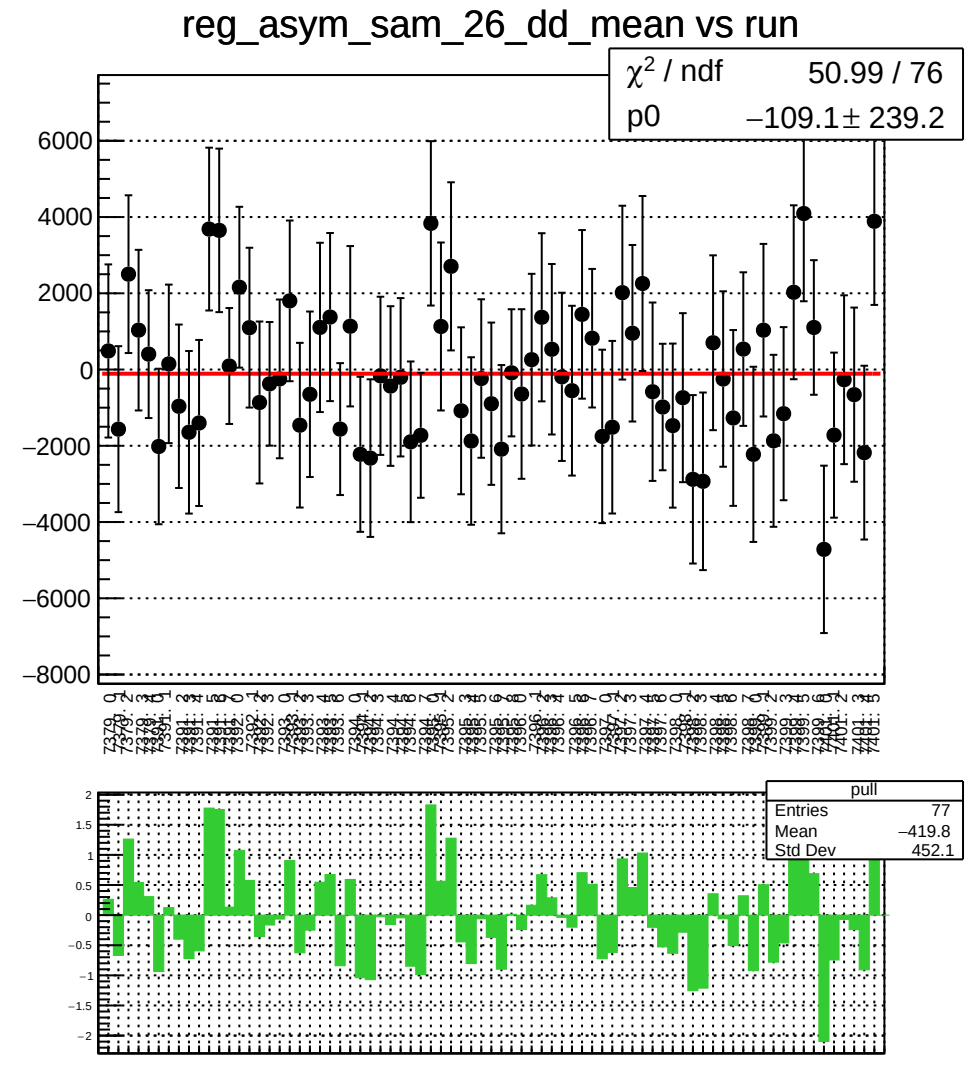

pull1D
Entries 77
Mean 0.0005097
Std Dev 0.9387
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

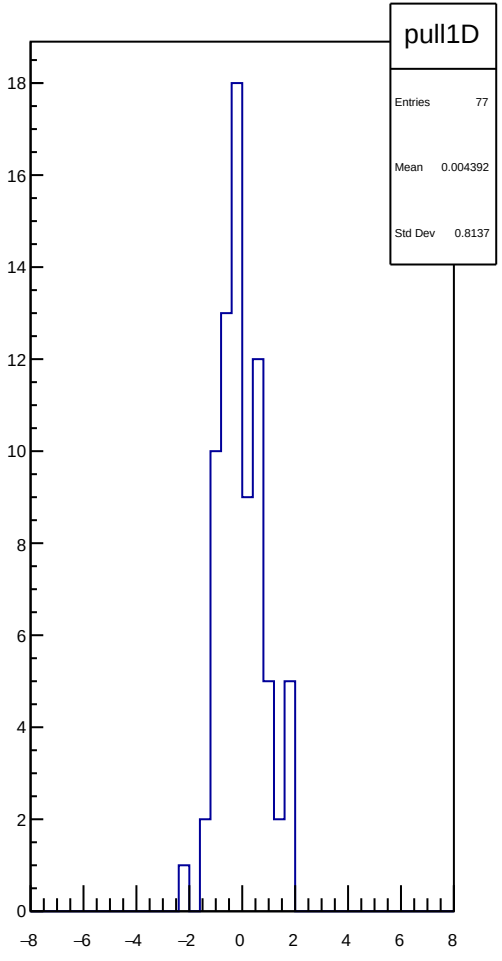

asym_sam_15_dd_correction_rms vs run
χ² / ndf 2806 / 76
p0 628.7 ± 0.5129
700
680
660
640
620
600
580
560

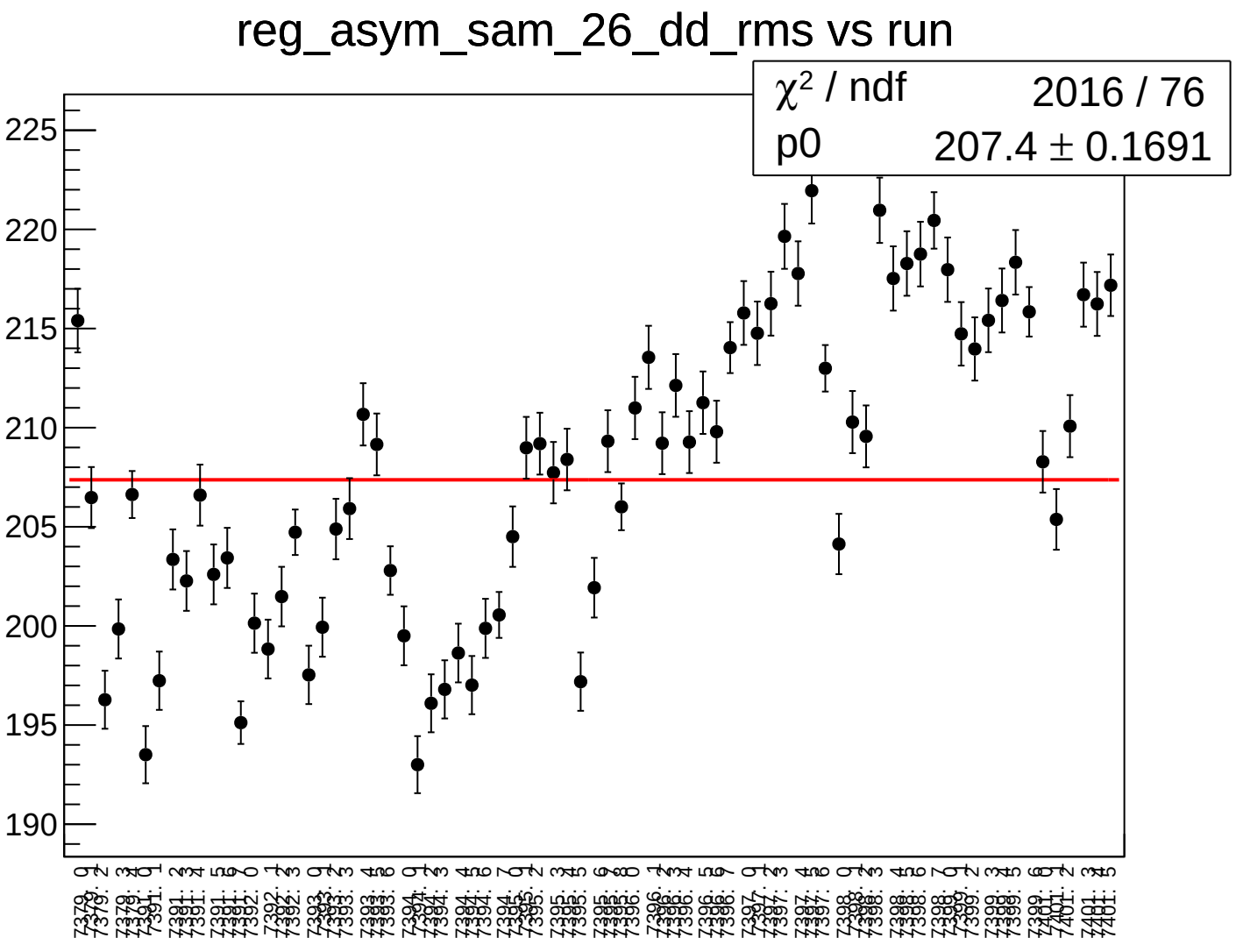

asym_sam_15_dd_mean vs run
χ² / ndf 68.27 / 76
p0 −1076 ± 739.2
20000
10000
0
−10000
−20000
pull
Entries 77
Mean −622.7
Std Dev 674.8
2
1
0
−1
−2

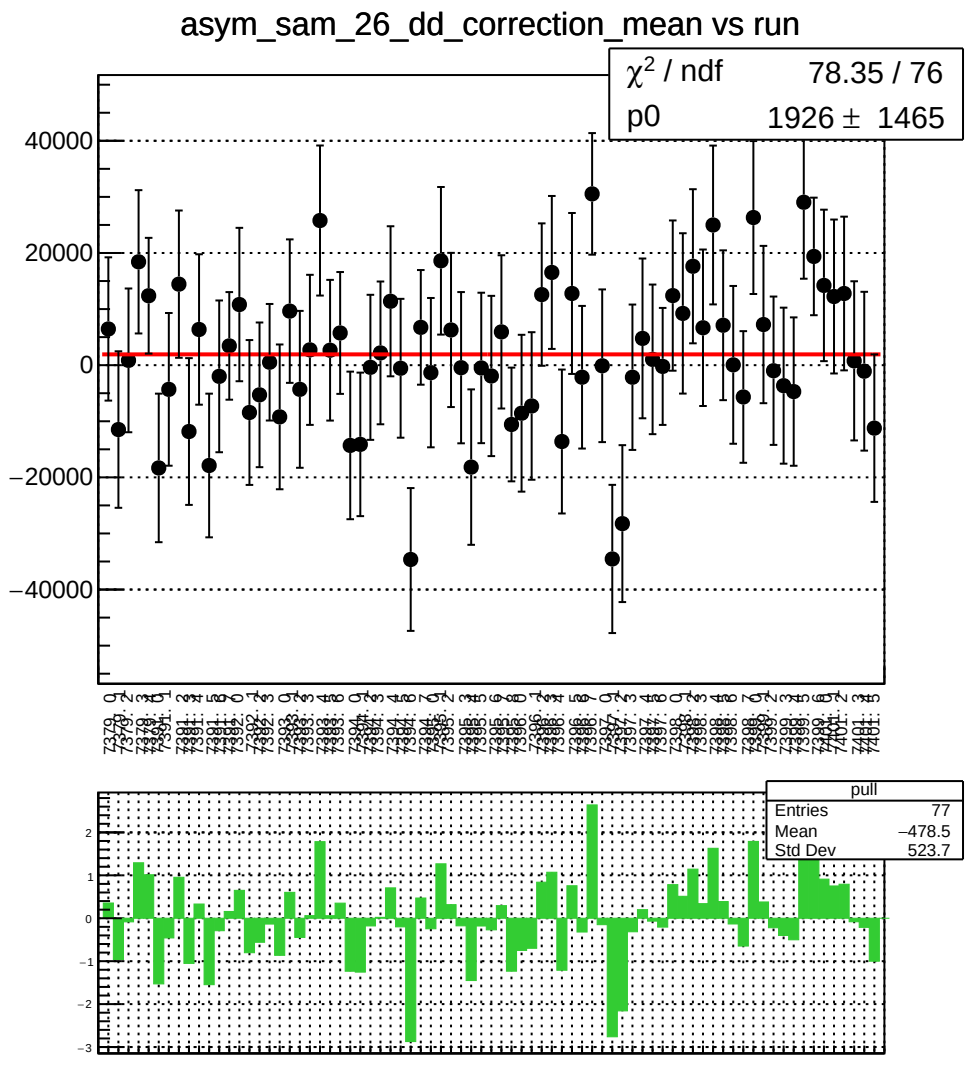

pull1D
Entries 77
Mean 0.001286
Std Dev 0.9416
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

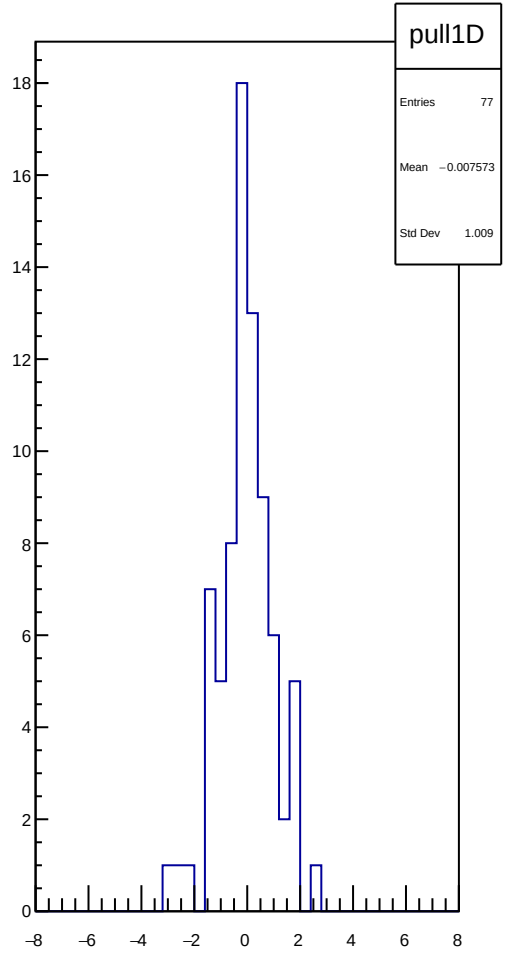

asym_sam_15_dd_rms vs run
χ² / ndf 2681 / 76
p0 640.7 ± 0.5227
720
700
680
660
640
620
600
580

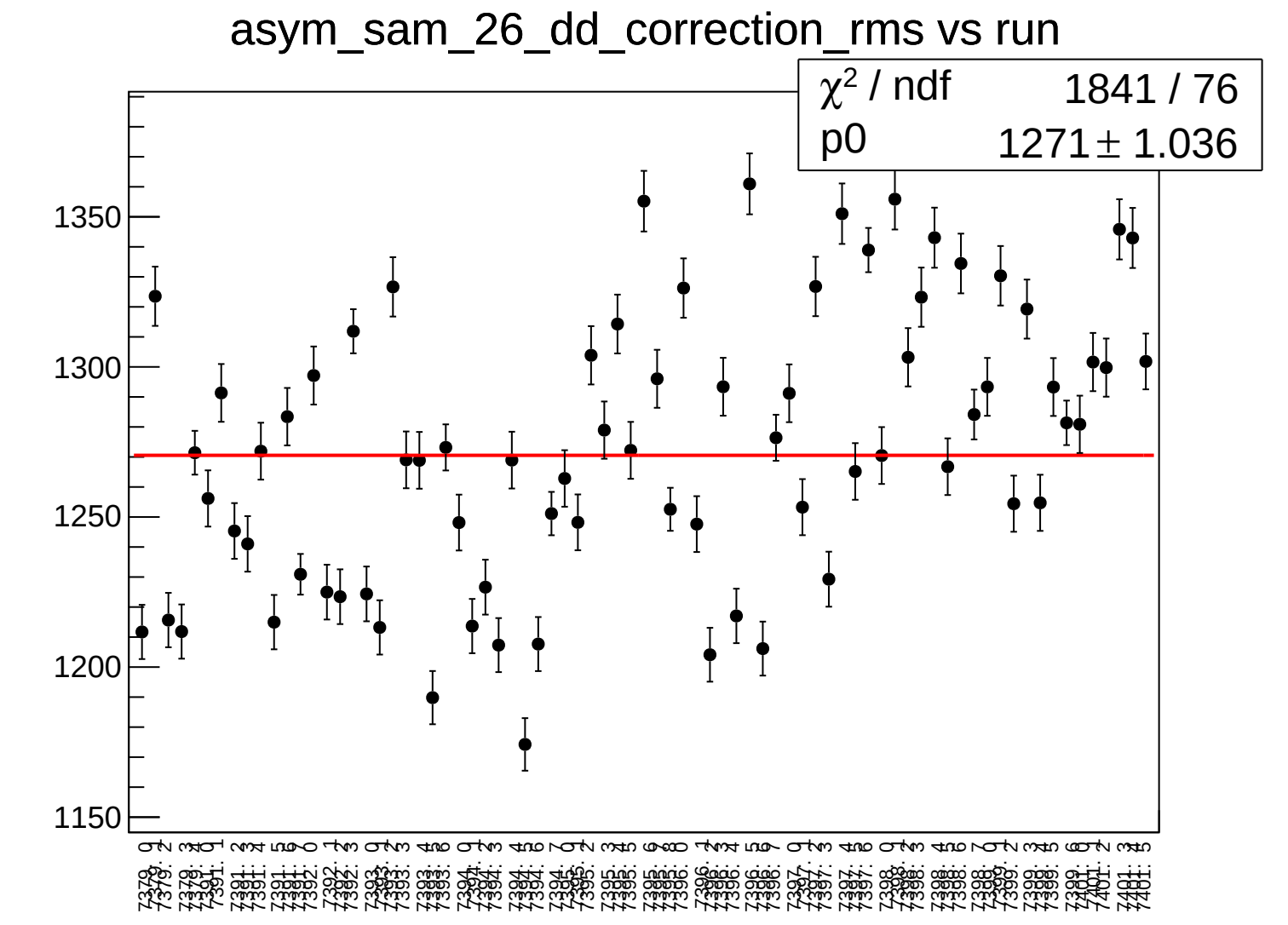

reg_asym_sam_26_dd_mean vs run
χ² / ndf 50.99 / 76
p0 −109.1± 239.2
pull
Entries 77
Mean −419.8
Std Dev 452.1

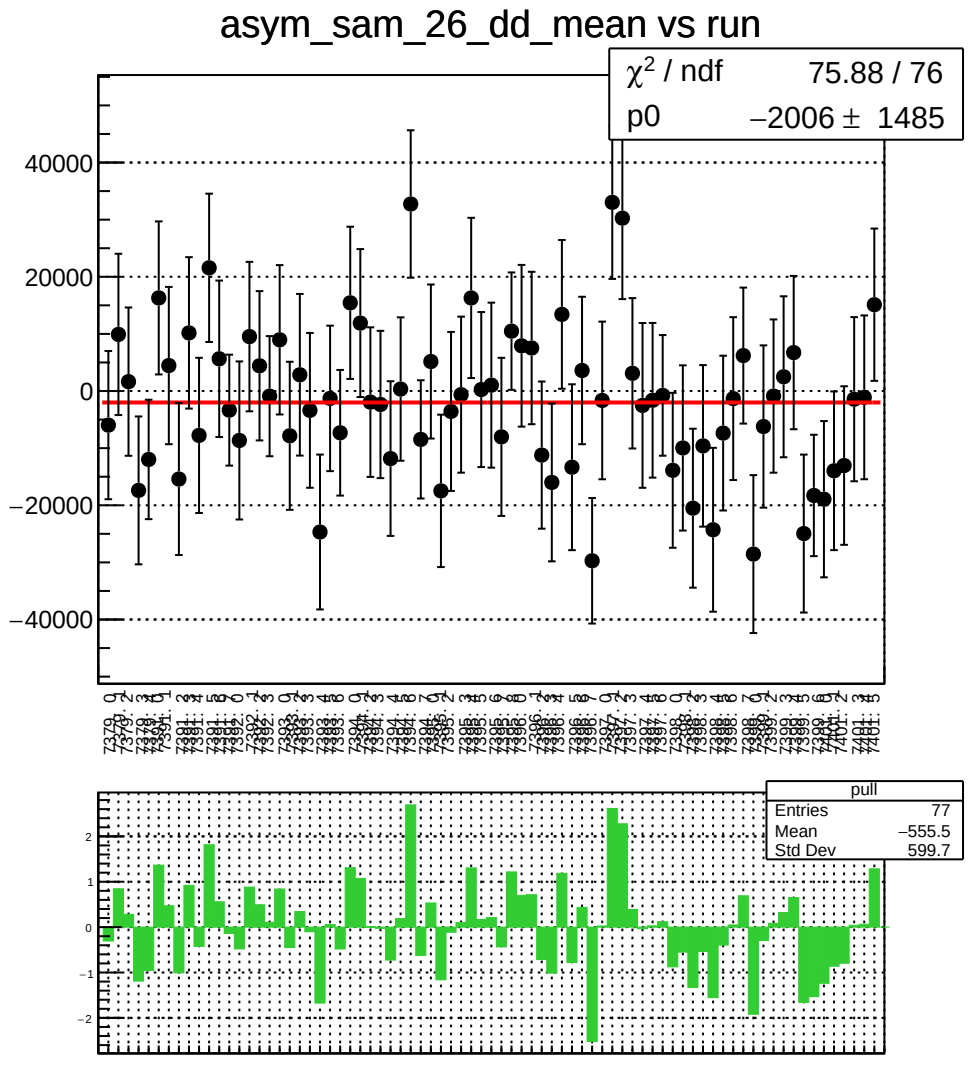

pull1D
Entries 77
Mean 0.004392
Std Dev 0.8137

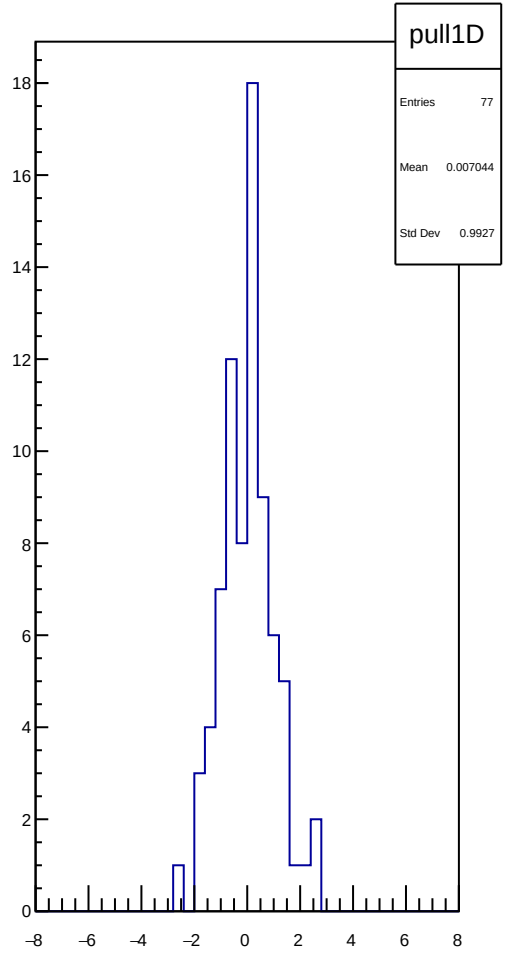

reg_asym_sam_26_dd_rms vs run
χ² / ndf 2016 / 76
p0 207.4 ± 0.1691
225
220
215
210
205
200
195
190

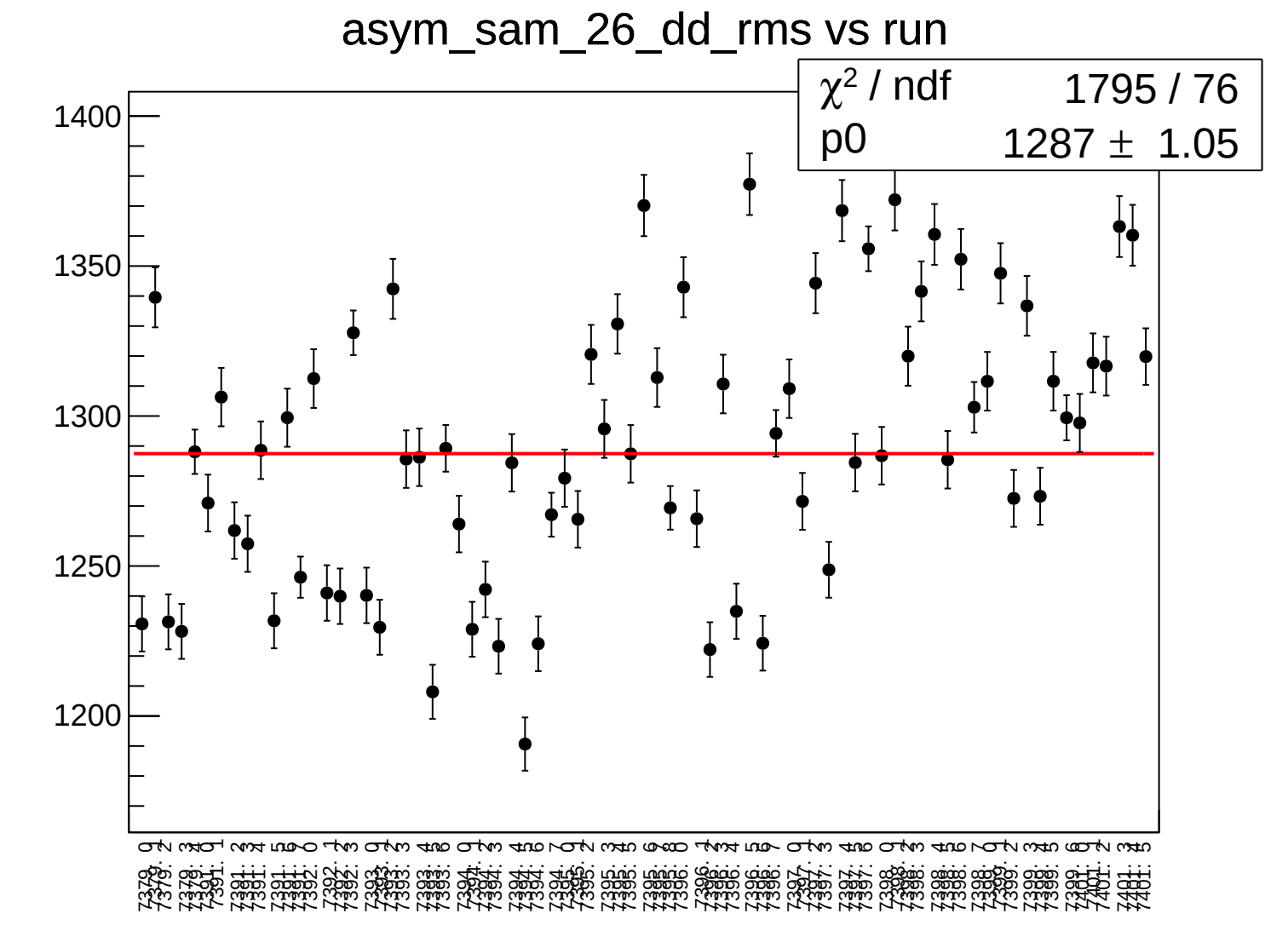

asym_sam_26_dd_correction_mean vs run
χ² / ndf 78.35 / 76
p0 1926 ± 1465
40000
20000
0
−20000
−40000
pull
Entries 77
Mean −478.5
Std Dev 523.7
2
1
0
−1
−2
−3

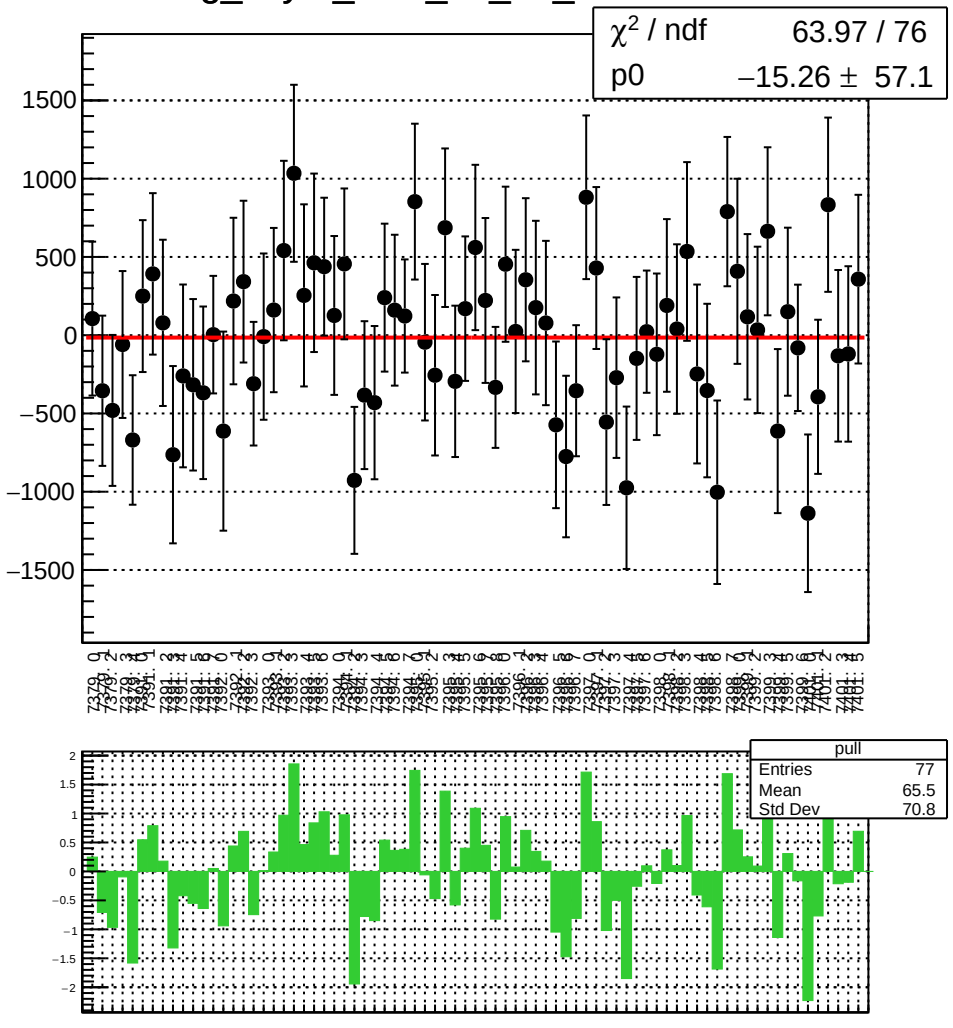

pull1D
Entries 77
Mean −0.007573
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

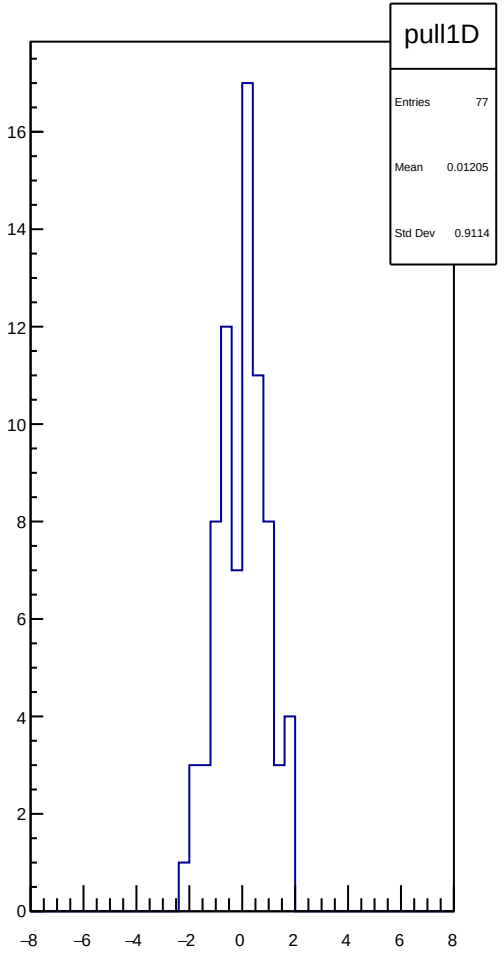

asym_sam_26_dd_correction_rms vs run
χ² / ndf 1841 / 76
p0 1271 ± 1.036
1350
1300
1250
1200
1150

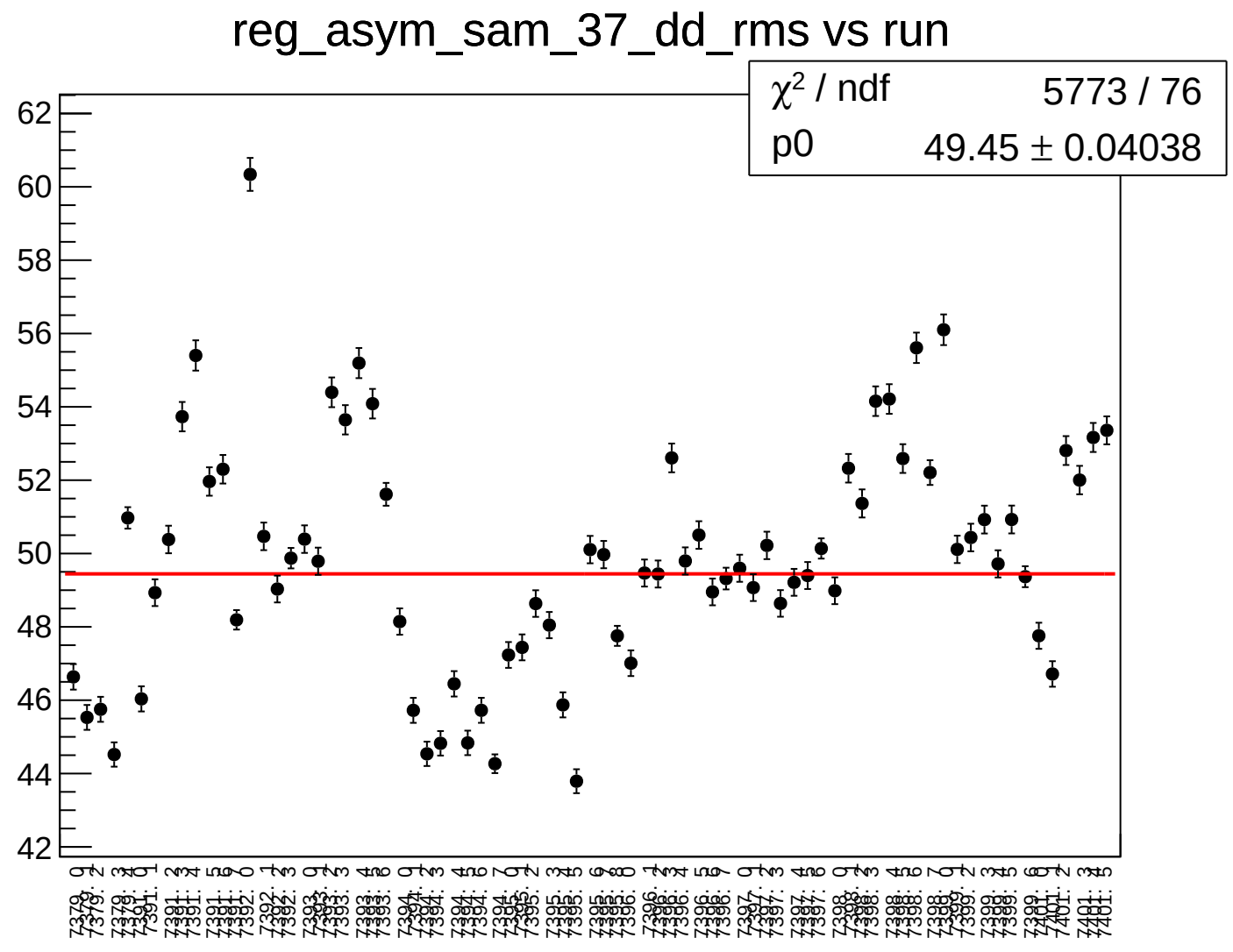

asym_sam_26_dd_mean vs run
χ^2 / ndf 75.88 / 76
p0 −2006 ± 1485
40000
20000
0
−20000
−40000
pull
Entries 77
Mean −555.5
Std Dev 599.7
2
1
0
−1
−2

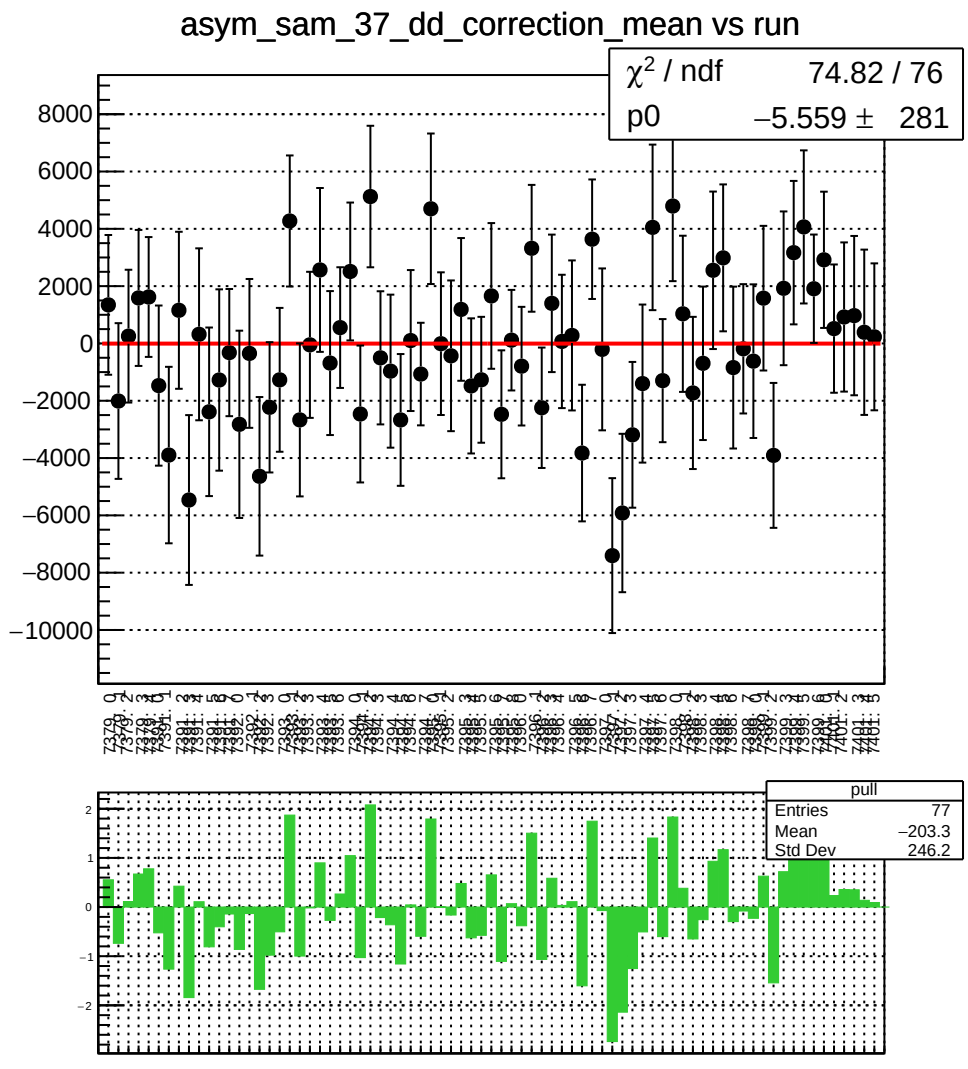

pull1D
Entries 77
Mean 0.007044
Std Dev 0.9927
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

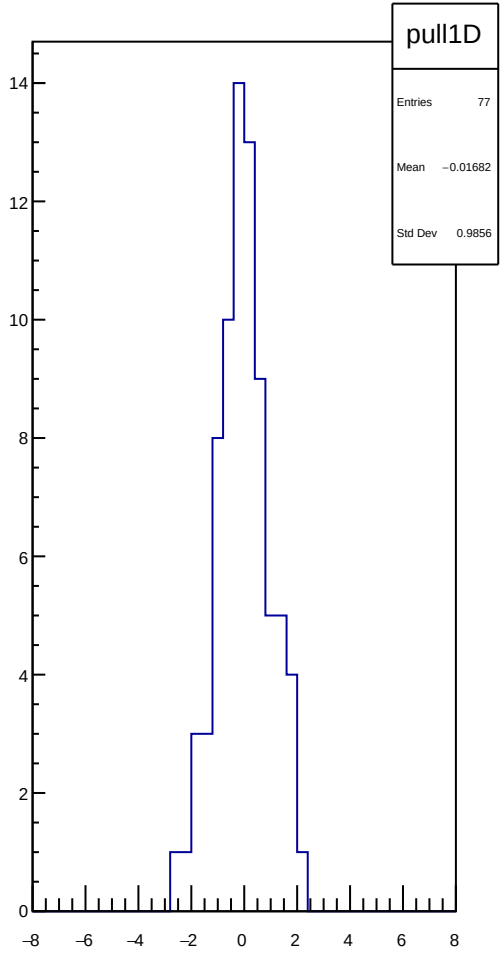

asym_sam_26_dd_rms vs run
χ² / ndf 1795 / 76
p0 1287 ± 1.05
1400
1350
1300
1250
1200

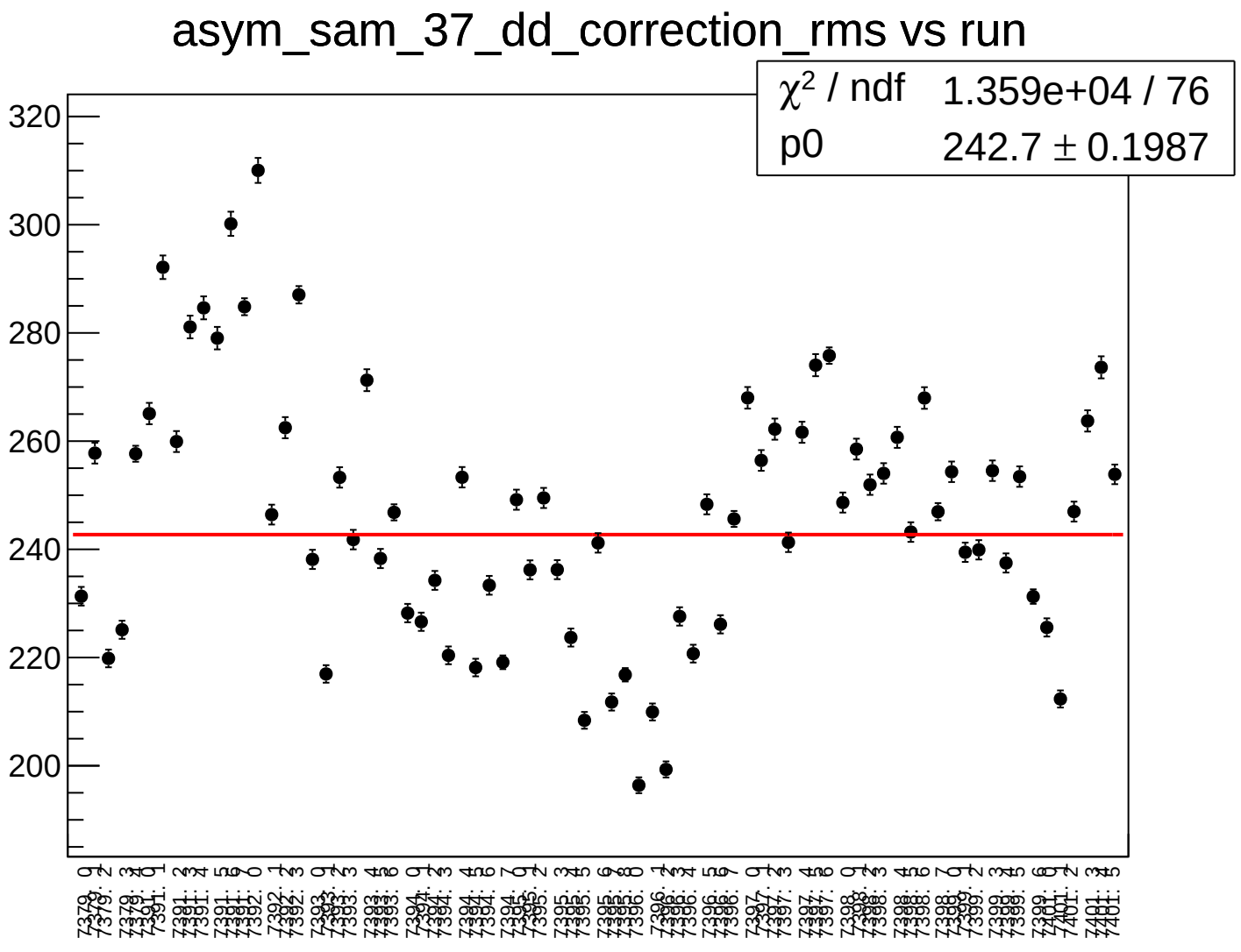

reg_asym_sam_37_dd_mean vs run
χ² / ndf 63.97 / 76
p0 −15.26 ± 57.1
pull
Entries 77
Mean 65.5
Std Dev 70.8

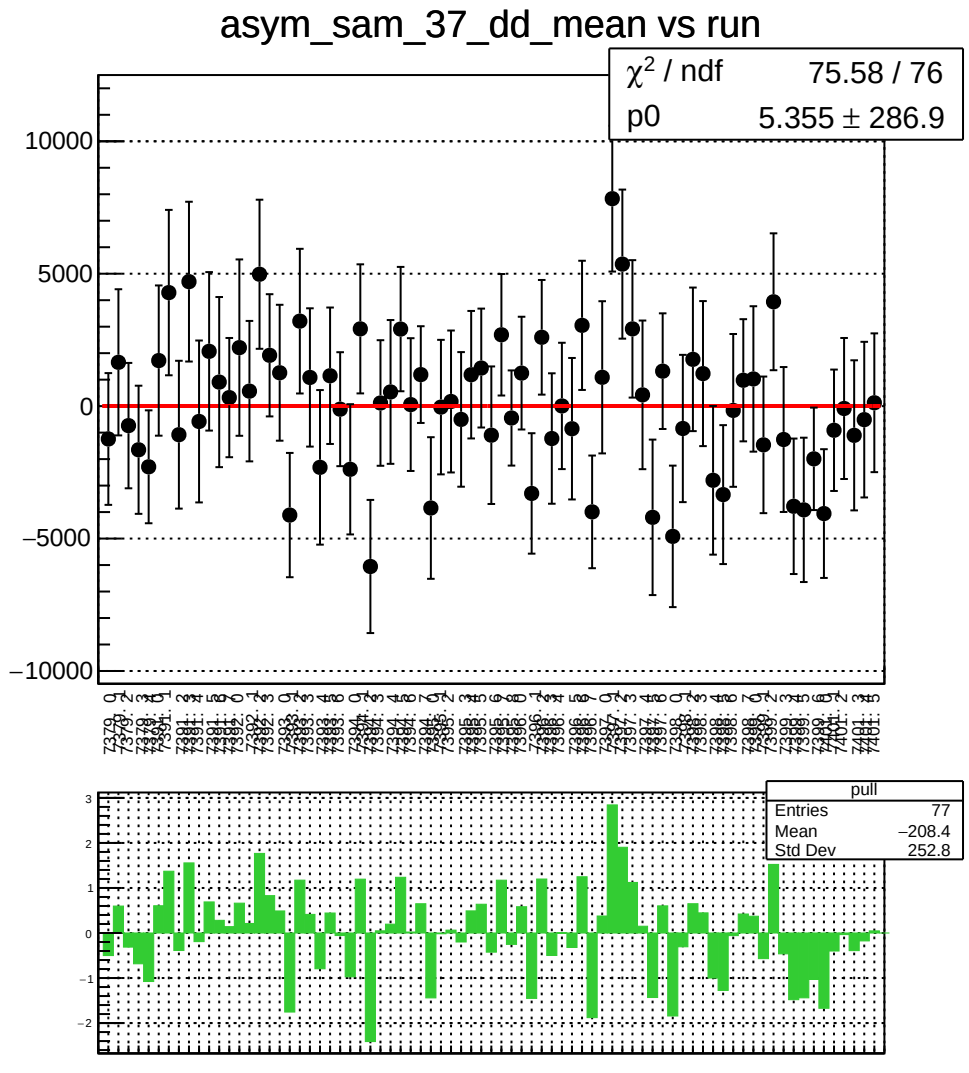

pull1D
Entries 77
Mean 0.01205
Std Dev 0.9114

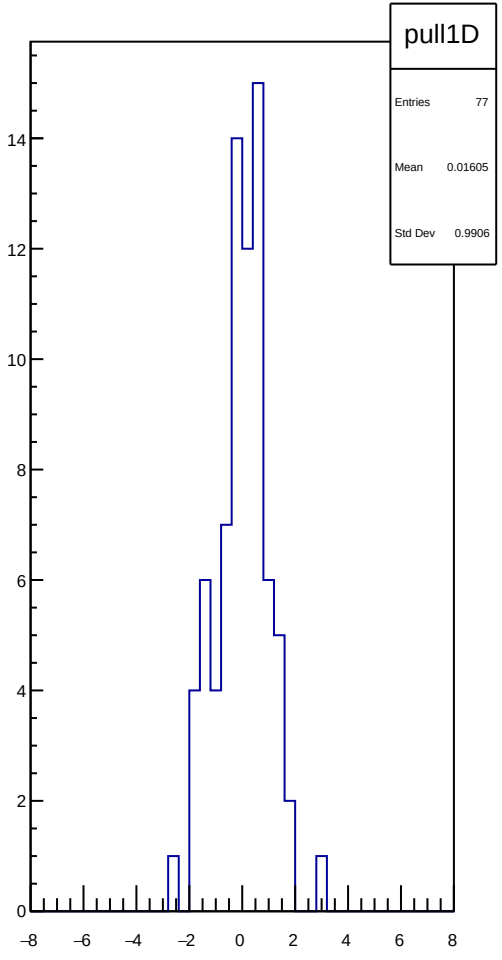

reg_asym_sam_37_dd_rms vs run
χ² / ndf 5773 / 76
p0 49.45 ± 0.04038
62
60
58
56
54
52
50
48
46
44
42

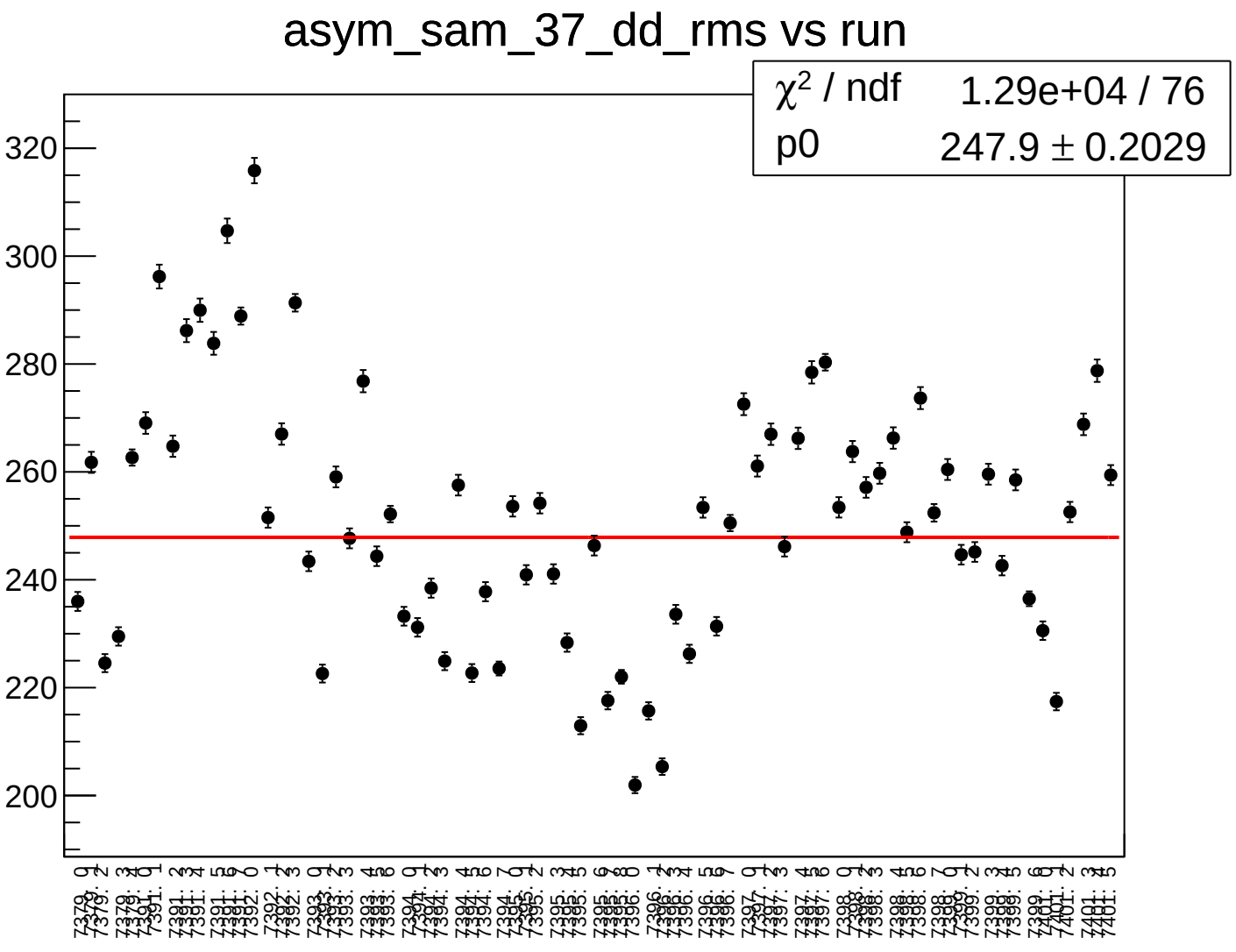

asym_sam_37_dd_correction_mean vs run
χ² / ndf 74.82 / 76
p0 −5.559 ± 281
pull
Entries 77
Mean −203.3
Std Dev 246.2

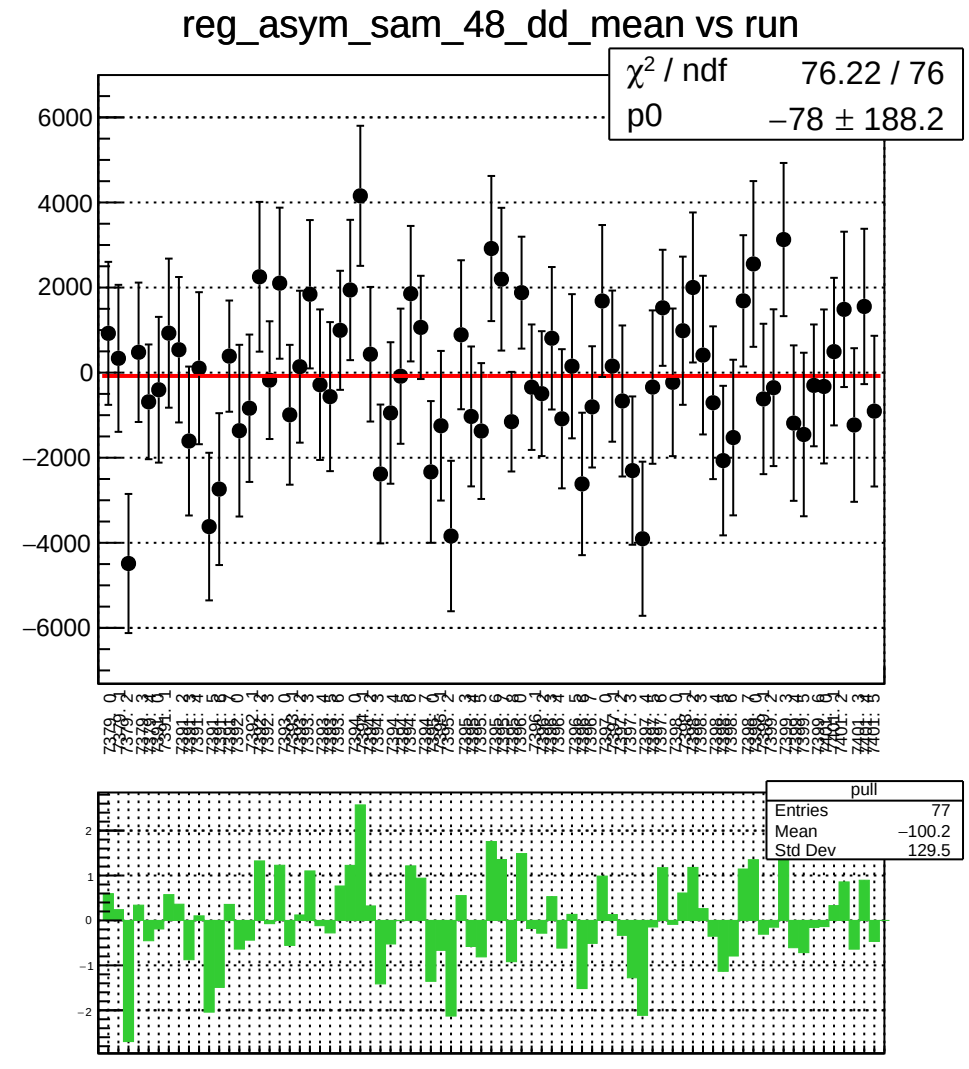

pull1D
Entries 77
Mean −0.01682
Std Dev 0.9856

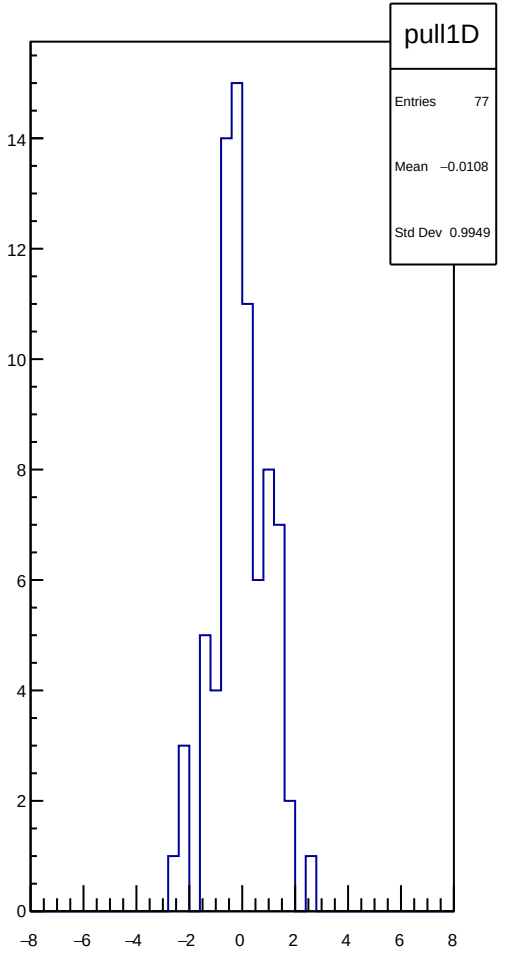

asym_sam_37_dd_correction_rms vs run
χ² / ndf 1.359e+04 / 76
p0 242.7 ± 0.1987
320
300
280
260
240
220
200

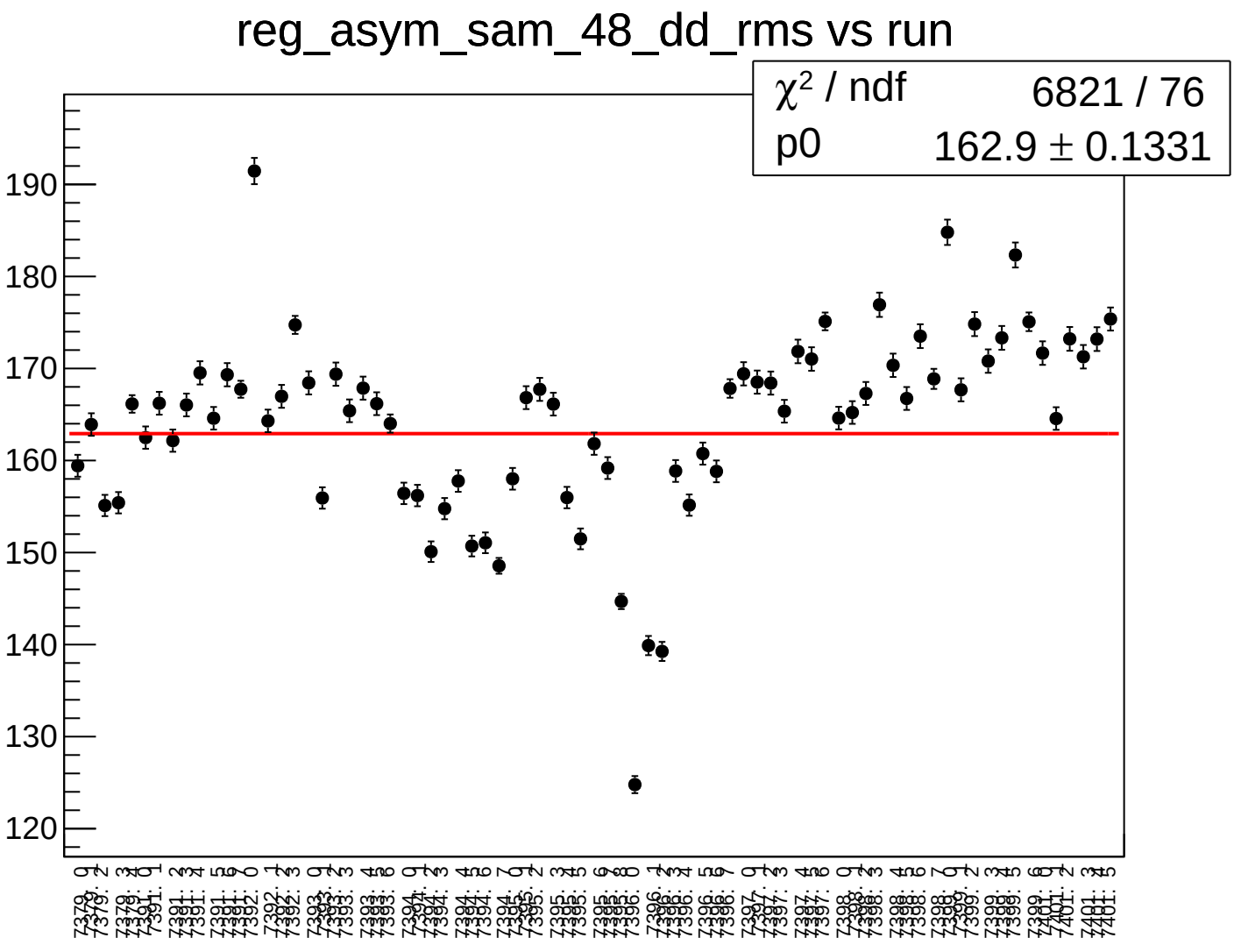

asym_sam_37_dd_mean vs run
χ^2 / ndf 75.58 / 76
p0 5.355 ± 286.9
10000
5000
0
−5000
−10000
pull
Entries 77
Mean −208.4
Std Dev 252.8
3
2
1
0
−1
−2

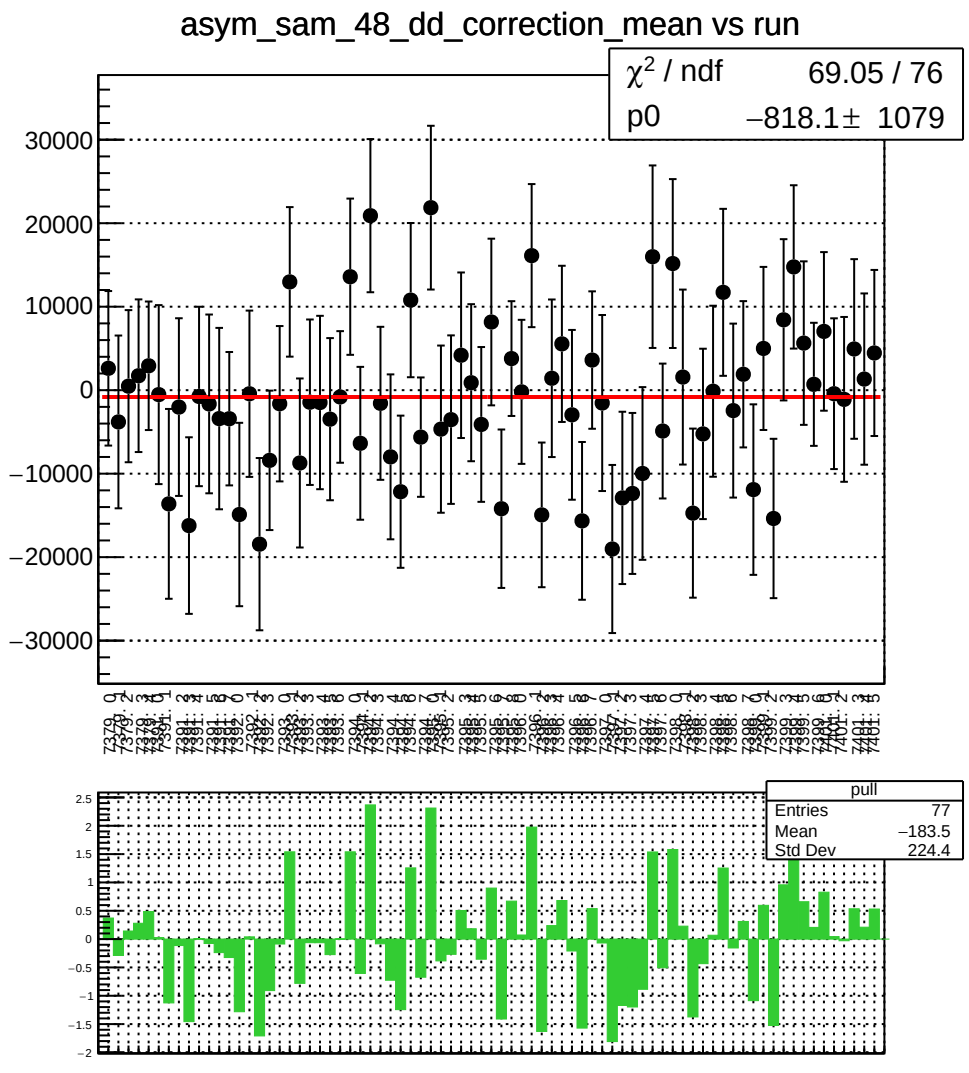

pull1D
Entries 77
Mean 0.01605
Std Dev 0.9906
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

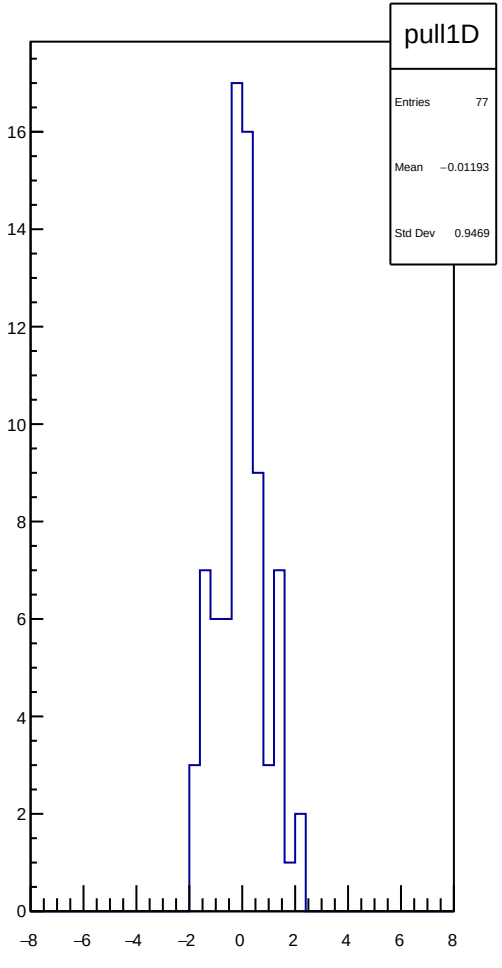

asym_sam_37_dd_rms vs run
χ² / ndf 1.29e+04 / 76
p0 247.9 ± 0.2029
320
300
280
260
240
220
200

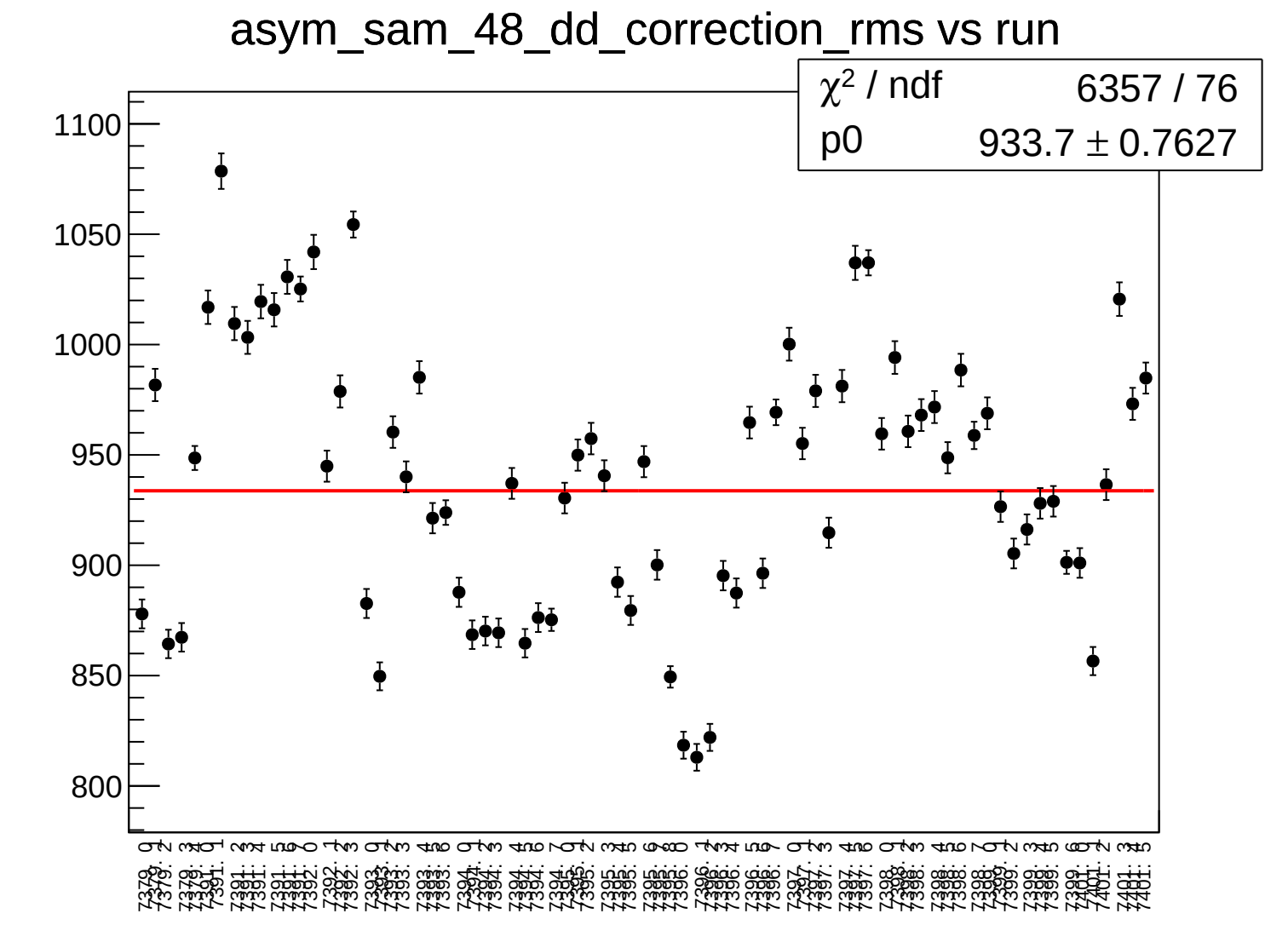

reg_asym_sam_48_dd_mean vs run
χ² / ndf 76.22 / 76
p0 −78 ± 188.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 77
Mean −100.2
Std Dev 129.5
2
1
0
−1
−2

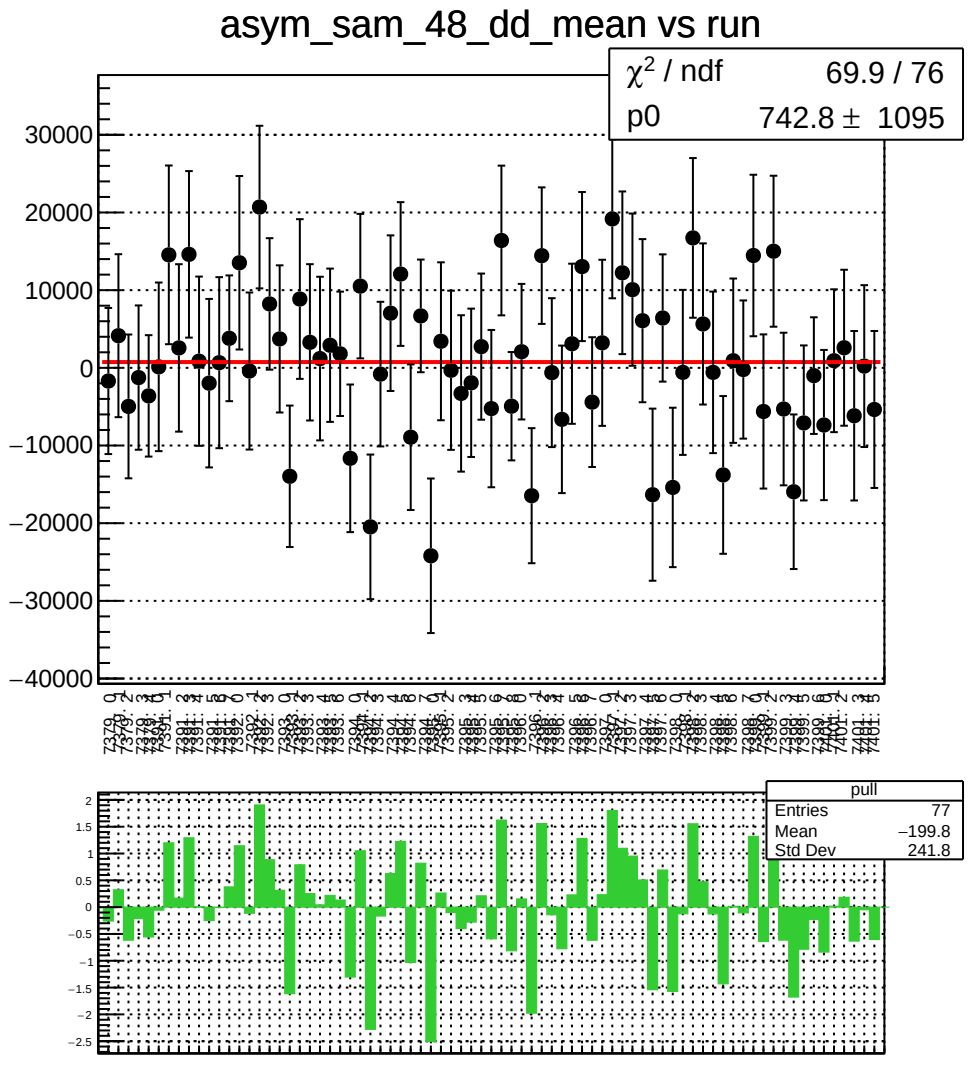

pull1D
Entries 77
Mean −0.0108
Std Dev 0.9949
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

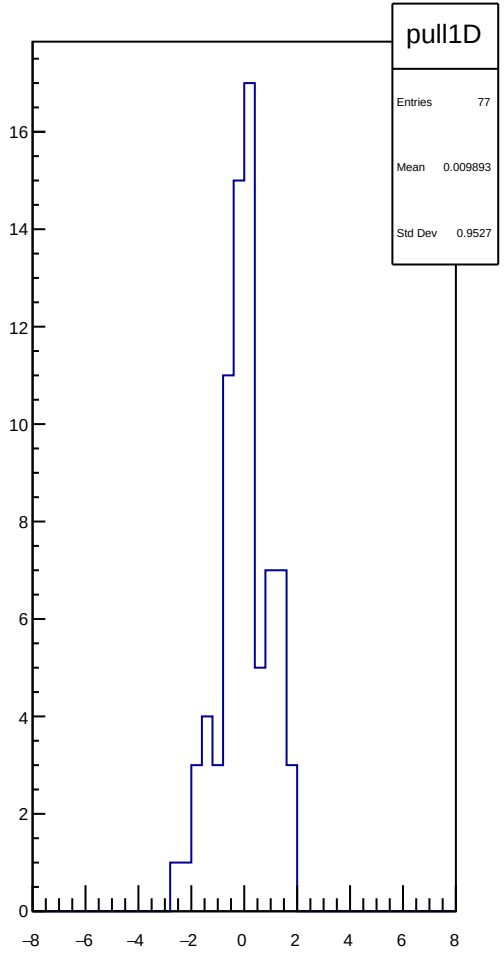

reg_asym_sam_48_dd_rms vs run
χ² / ndf 6821 / 76
p0 162.9 ± 0.1331
190
180
170
160
150
140
130
120

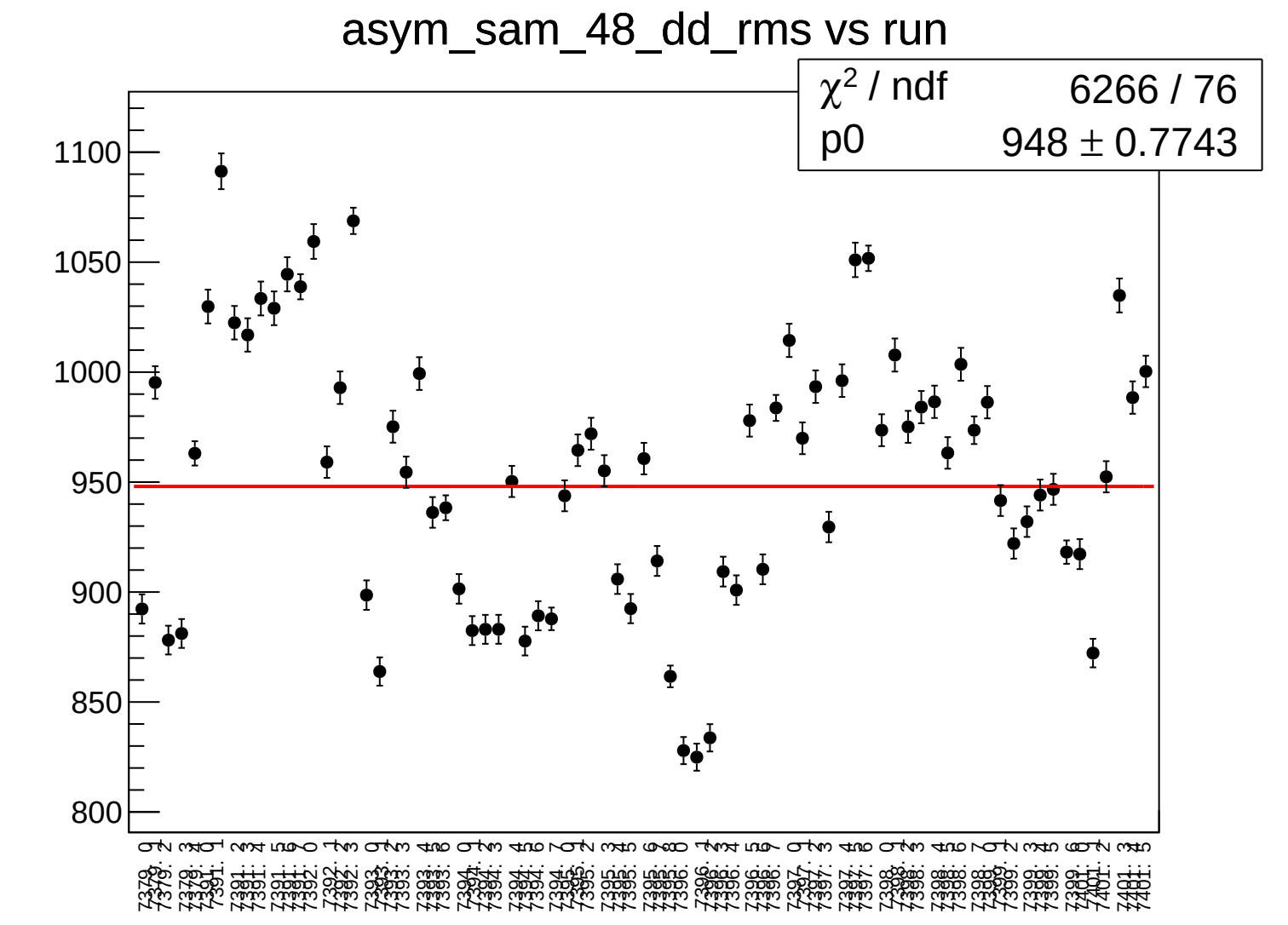

asym_sam_48_dd_correction_mean vs run
χ² / ndf 69.05 / 76
p0 −818.1± 1079
pull
Entries 77
Mean −183.5
Std Dev 224.4

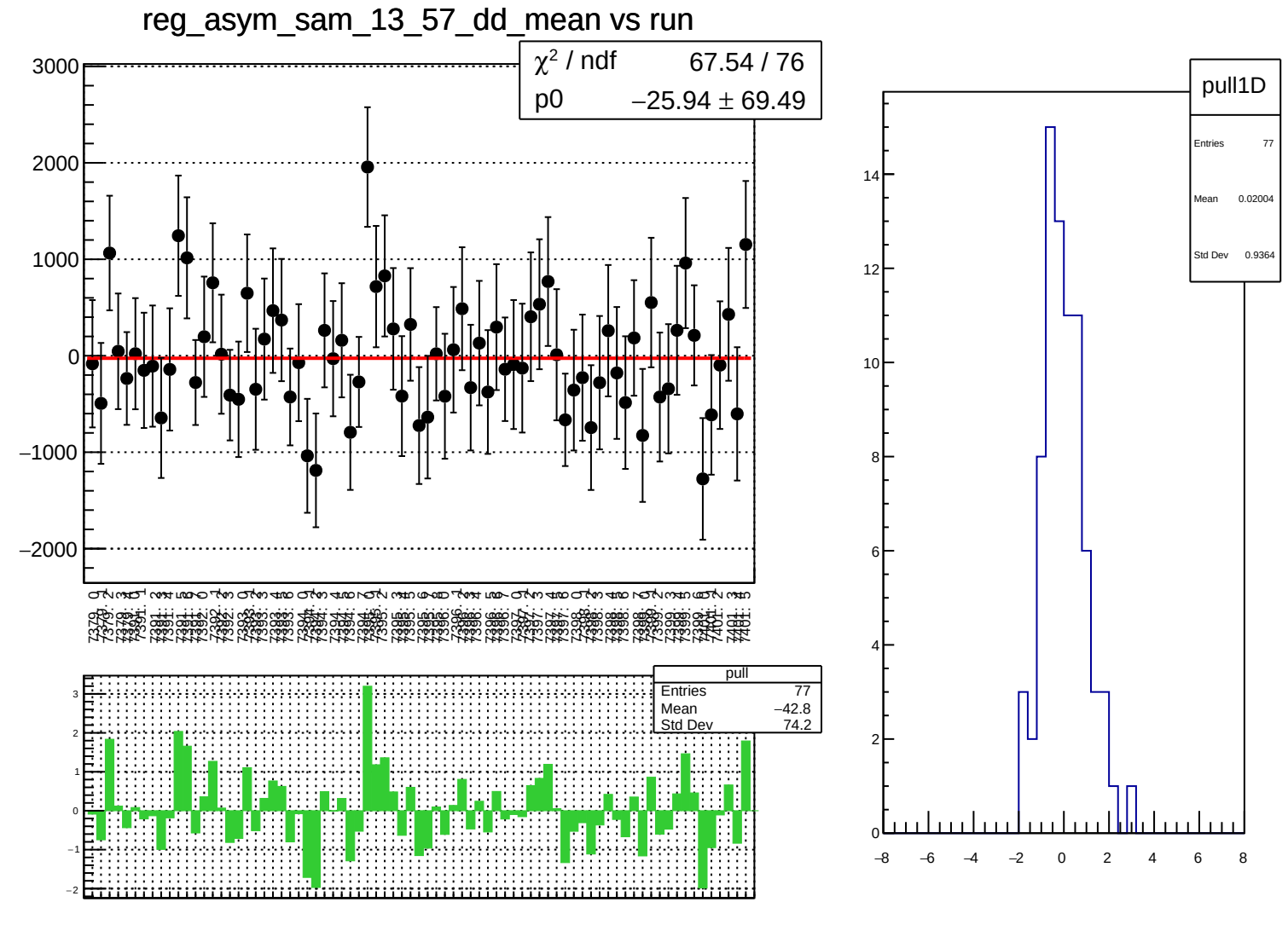

pull1D
Entries 77
Mean −0.01193
Std Dev 0.9469

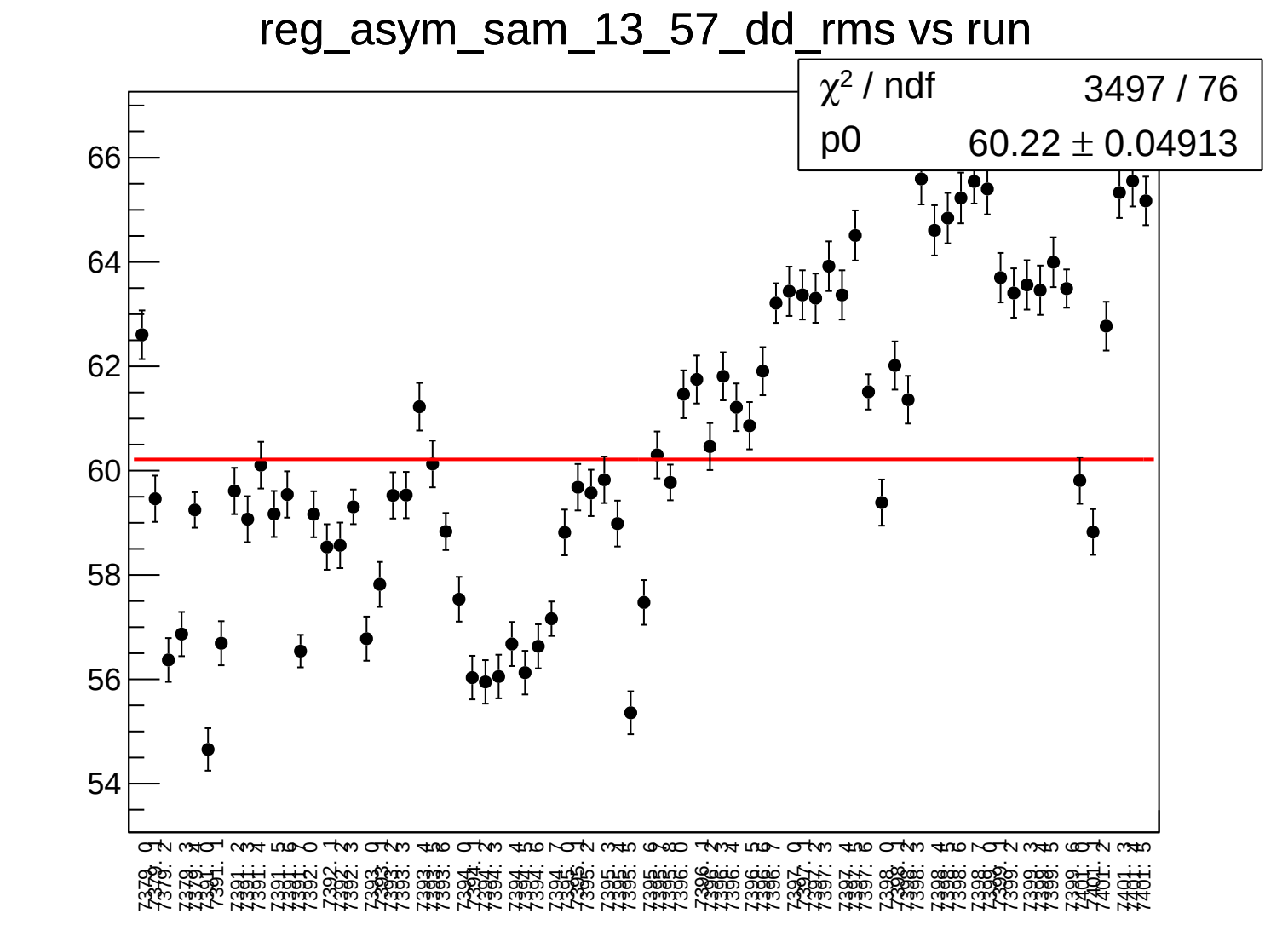

asym_sam_48_dd_correction_rms vs run
χ² / ndf 6357 / 76
p0 933.7 ± 0.7627
1100
1050
1000
950
900
850
800

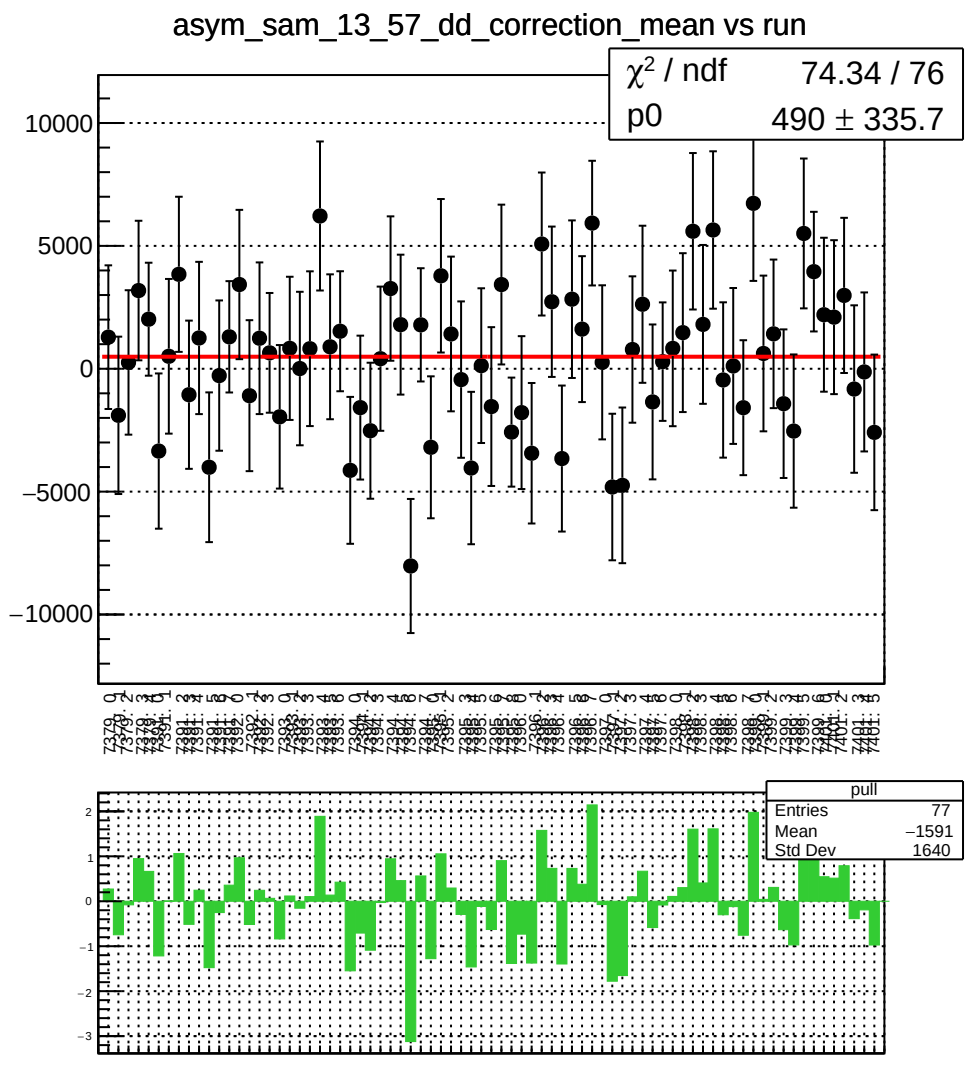

asym_sam_48_dd_mean vs run
χ² / ndf 69.9 / 76
p0 742.8 ± 1095
pull
Entries 77
Mean −199.8
Std Dev 241.8

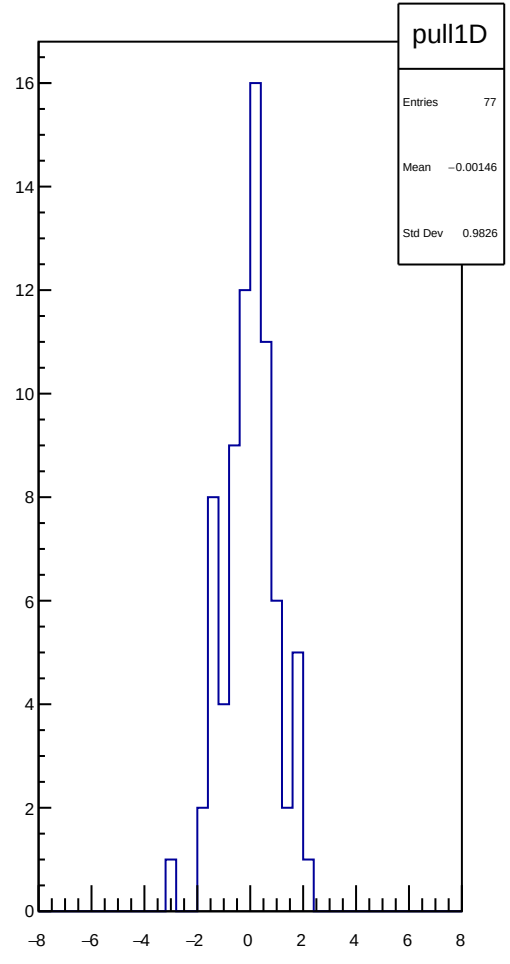

pull1D
Entries 77
Mean 0.009893
Std Dev 0.9527

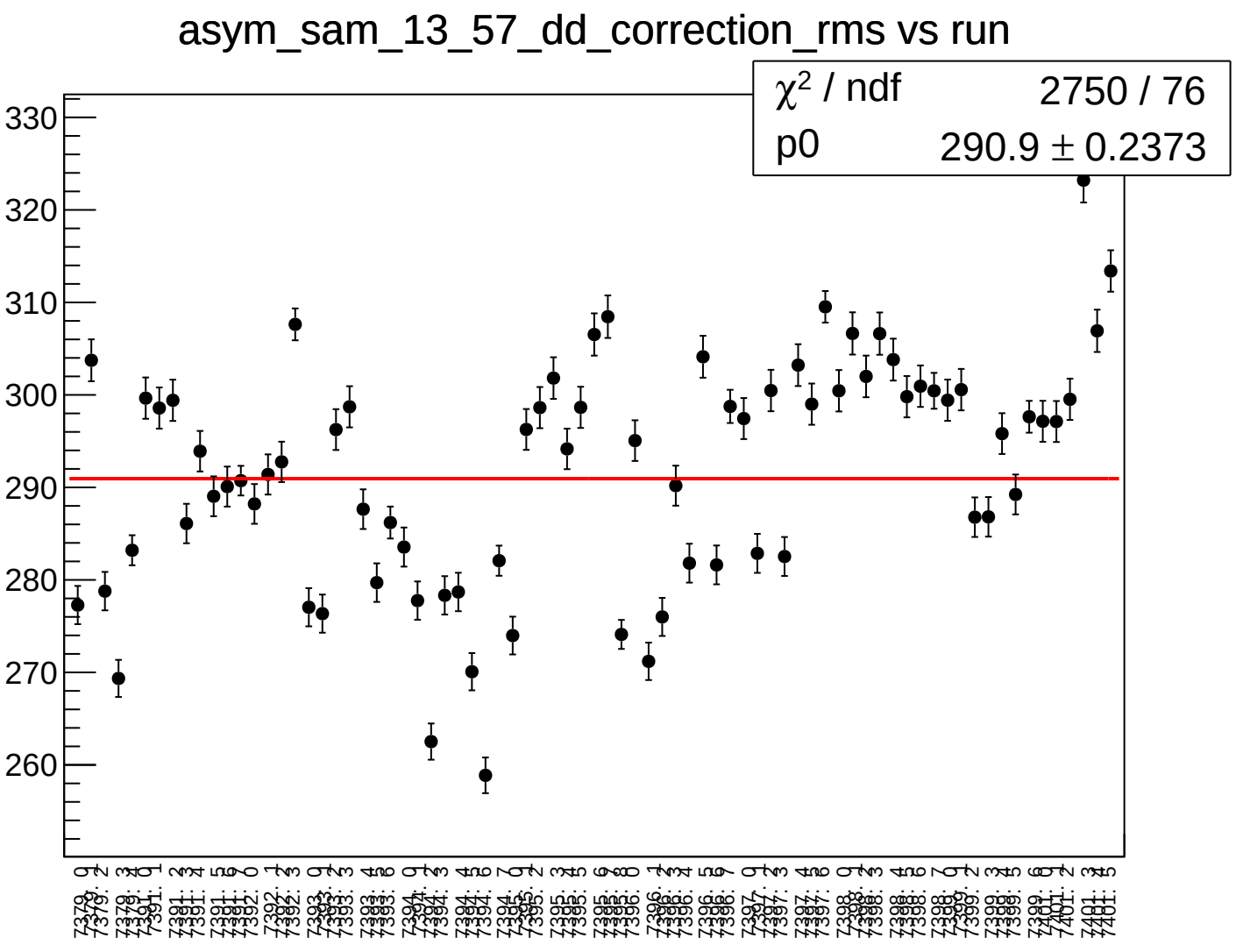

asym_sam_48_dd_rms vs run
χ² / ndf 6266 / 76
p0 948 ± 0.7743
1100
1050
1000
950
900
850
800

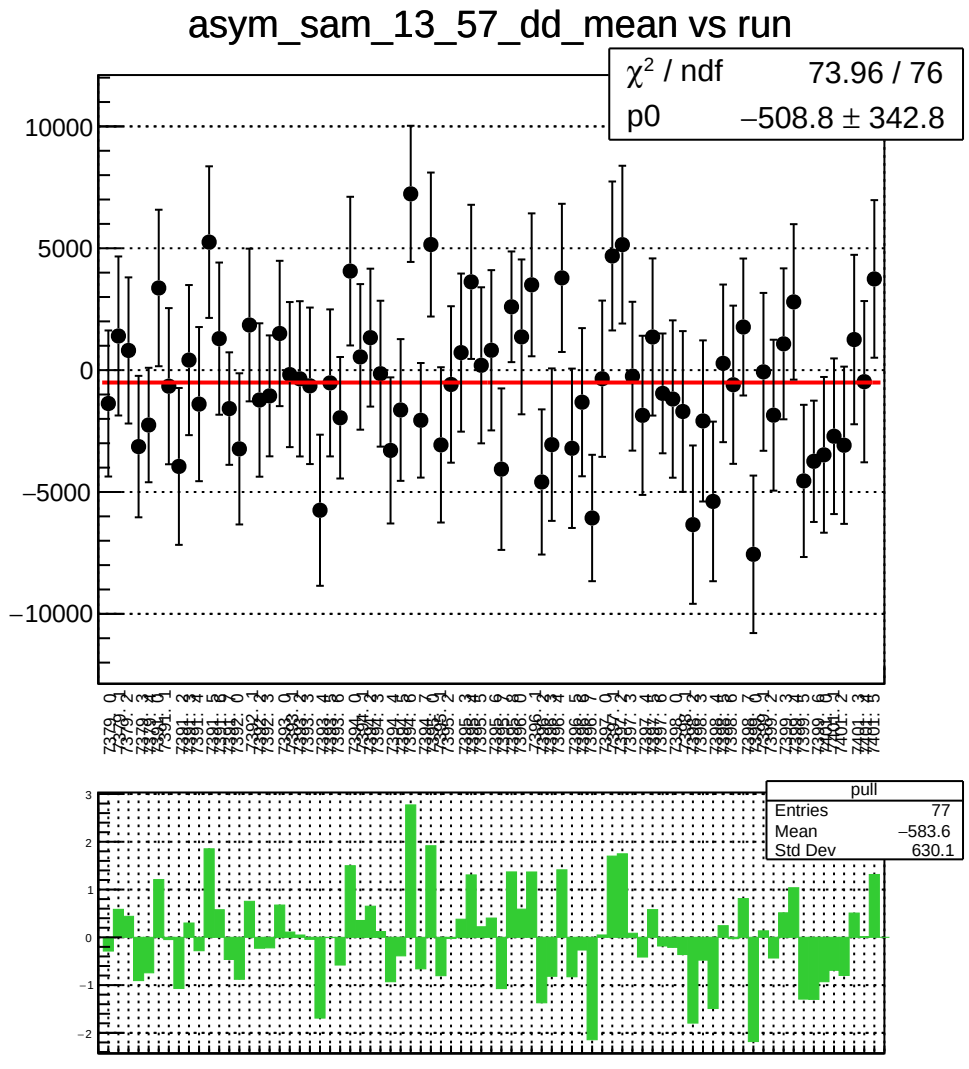

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 67.54 / 76
p0 −25.94 ± 69.49
pull
Entries 77
Mean −42.8
Std Dev 74.2
pull1D
Entries 77
Mean 0.02004
Std Dev 0.9364

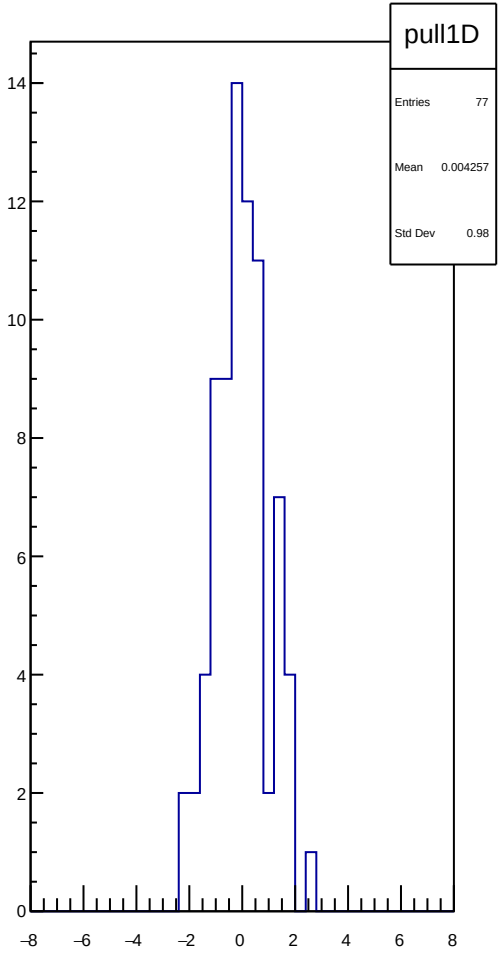

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 3497 / 76
p0 60.22 ± 0.04913
66
64
62
60
58
56
54

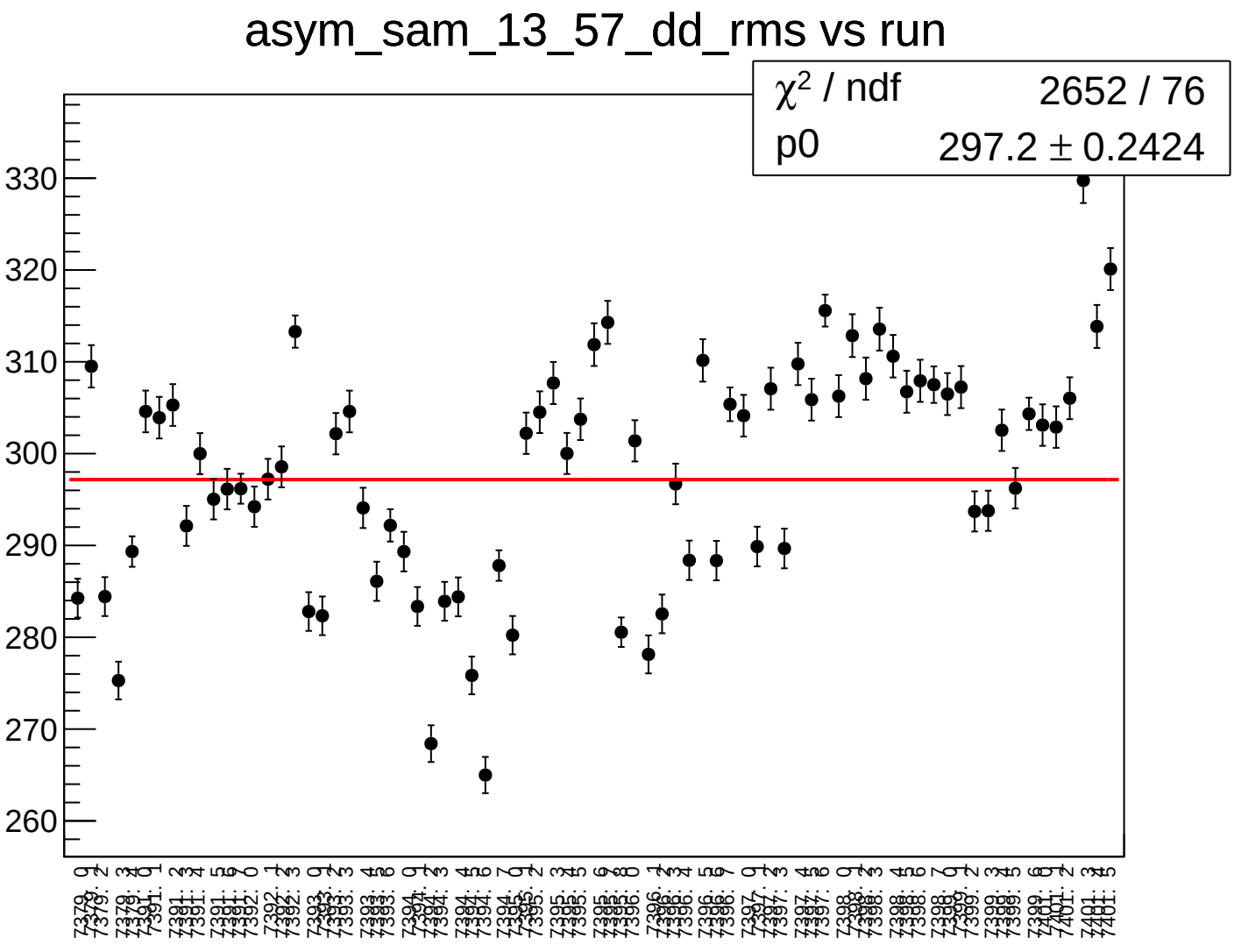

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 74.34 / 76
p0 490 ± 335.7
10000
5000
0
−5000
−10000
pull
Entries 77
Mean −1591
Std Dev 1640
2
1
0
−1
−2
−3

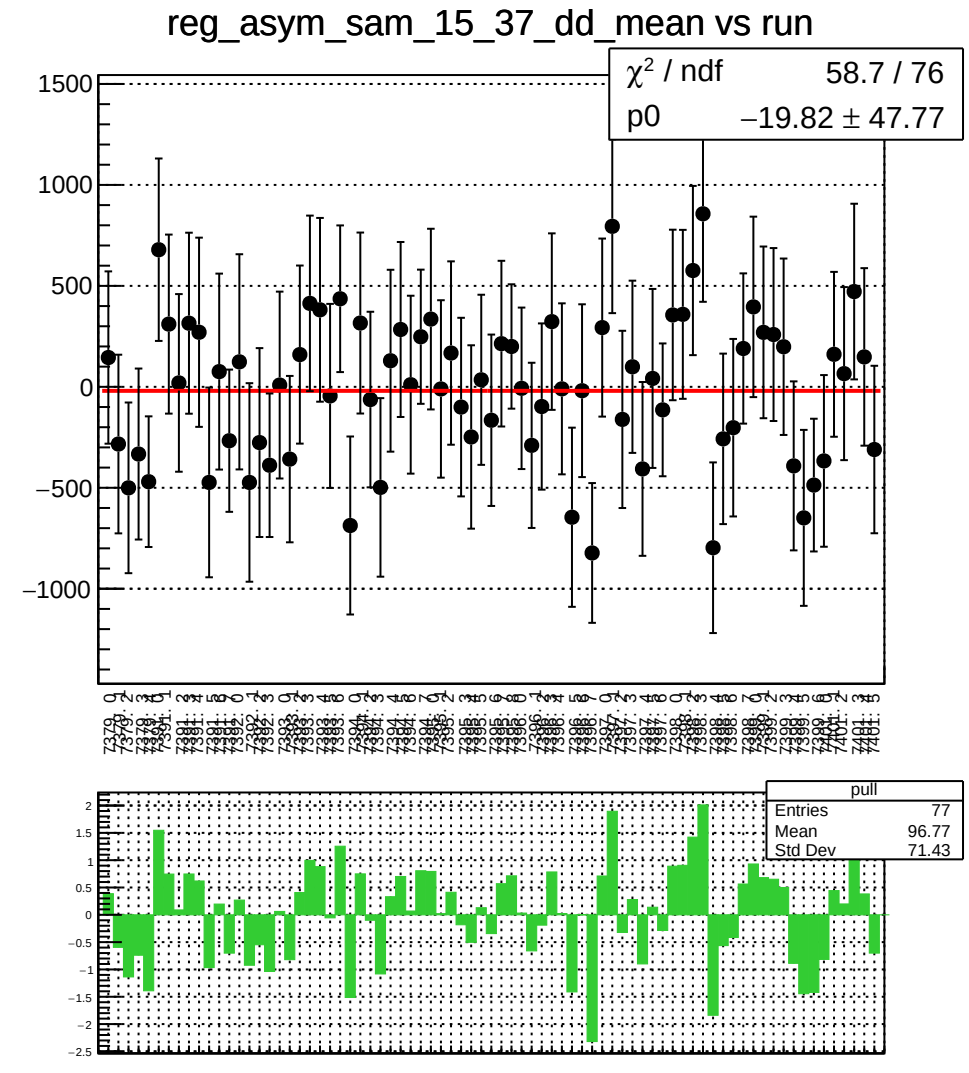

pull1D
Entries 77
Mean −0.00146
Std Dev 0.9826
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

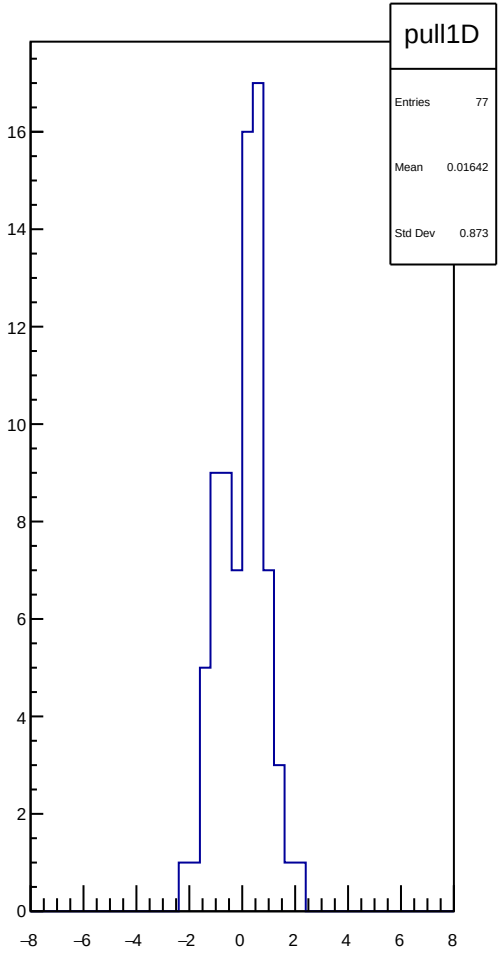

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 2750 / 76
p0 290.9 ± 0.2373
330
320
310
300
290
280
270
260

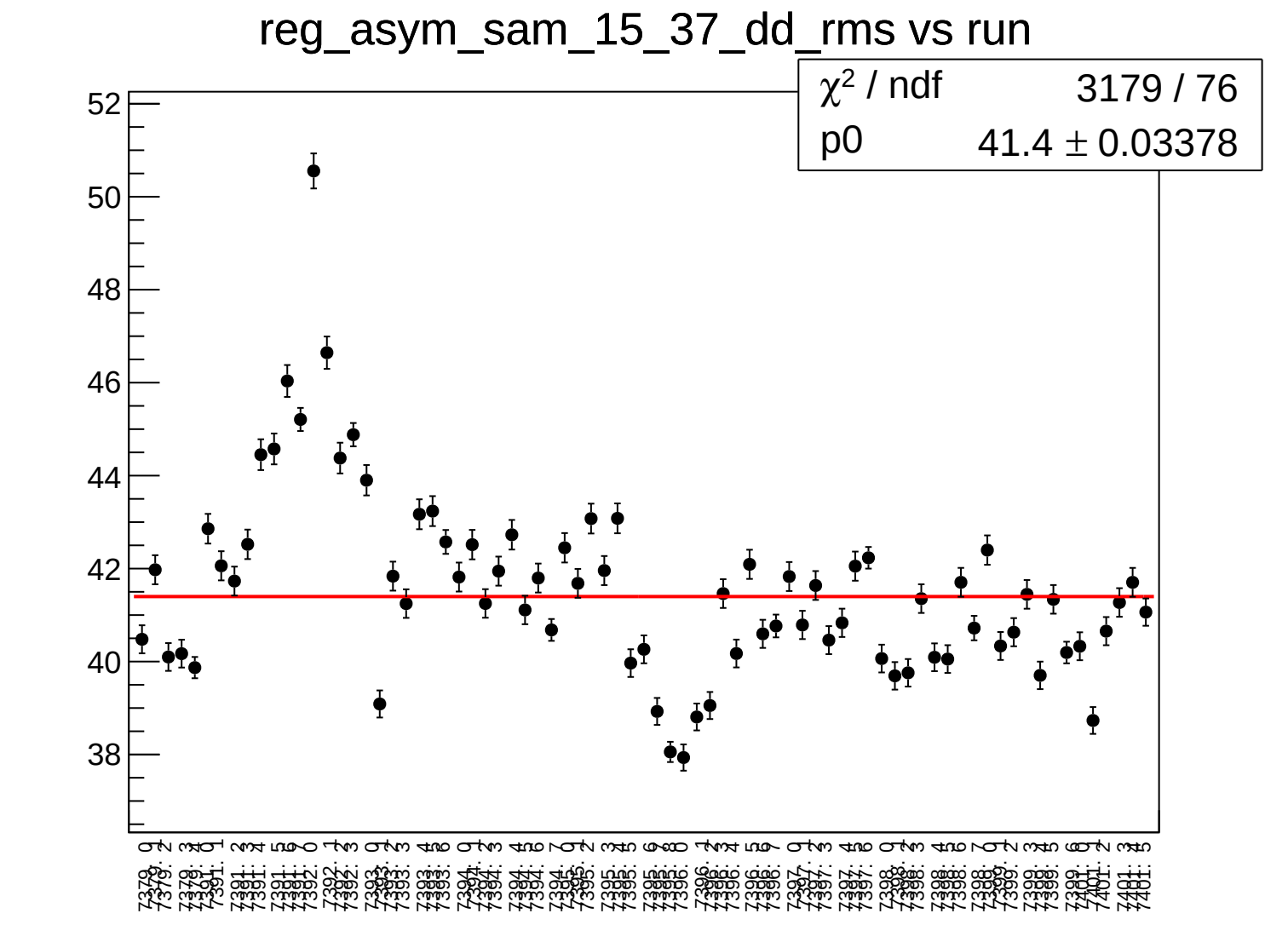

asym_sam_13_57_dd_mean vs run
χ² / ndf 73.96 / 76
p0 −508.8 ± 342.8
10000
5000
0
−5000
−10000
pull
Entries 77
Mean −583.6
Std Dev 630.1
3
2
1
0
−1
−2

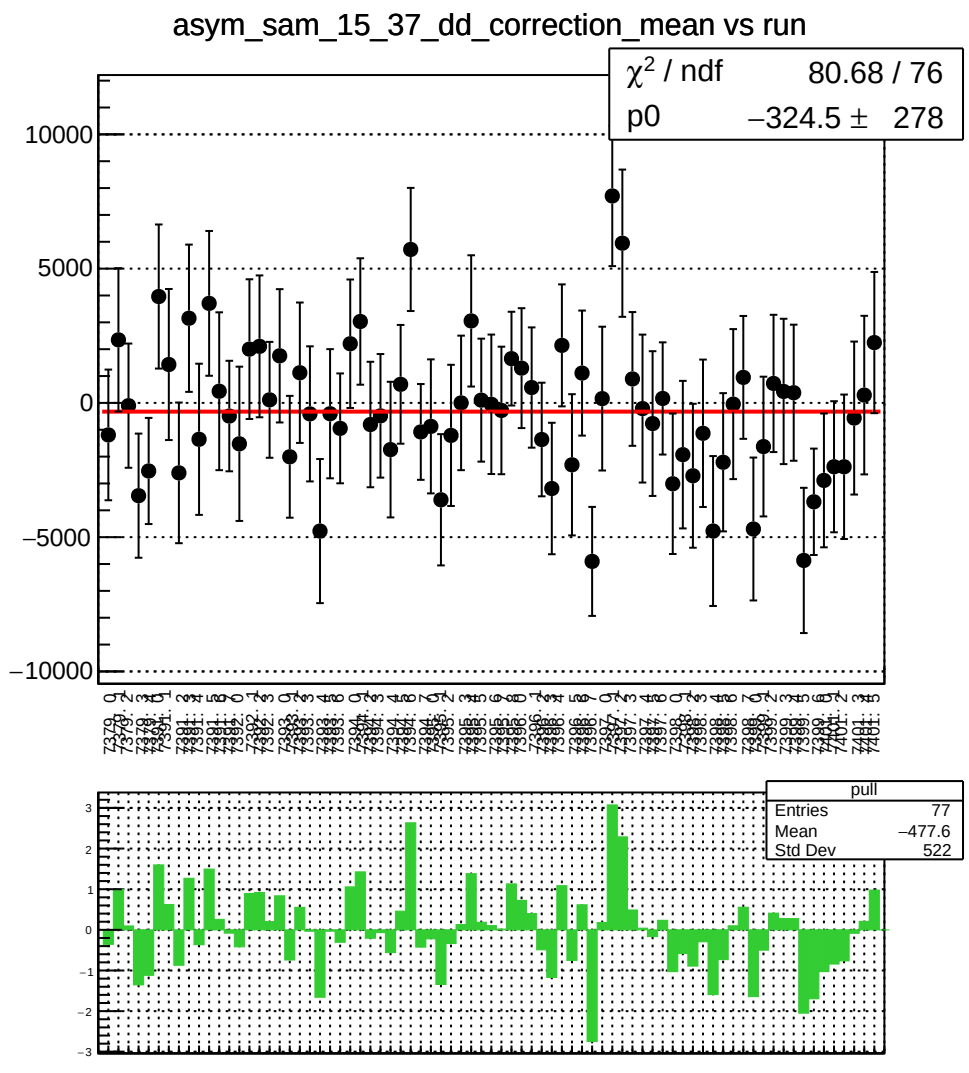

pull1D
Entries 77
Mean 0.004257
Std Dev 0.98
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

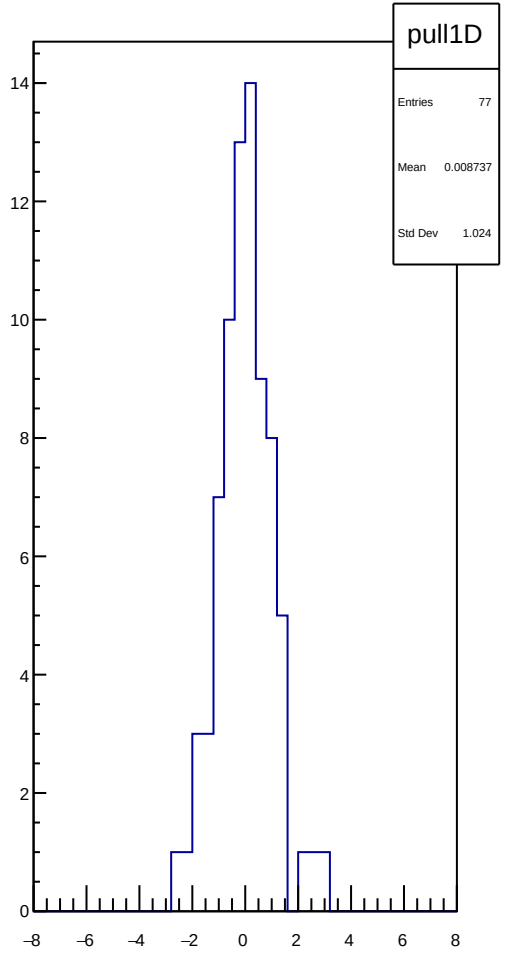

asym_sam_13_57_dd_rms vs run
χ² / ndf 2652 / 76
p0 297.2 ± 0.2424
330
320
310
300
290
280
270
260

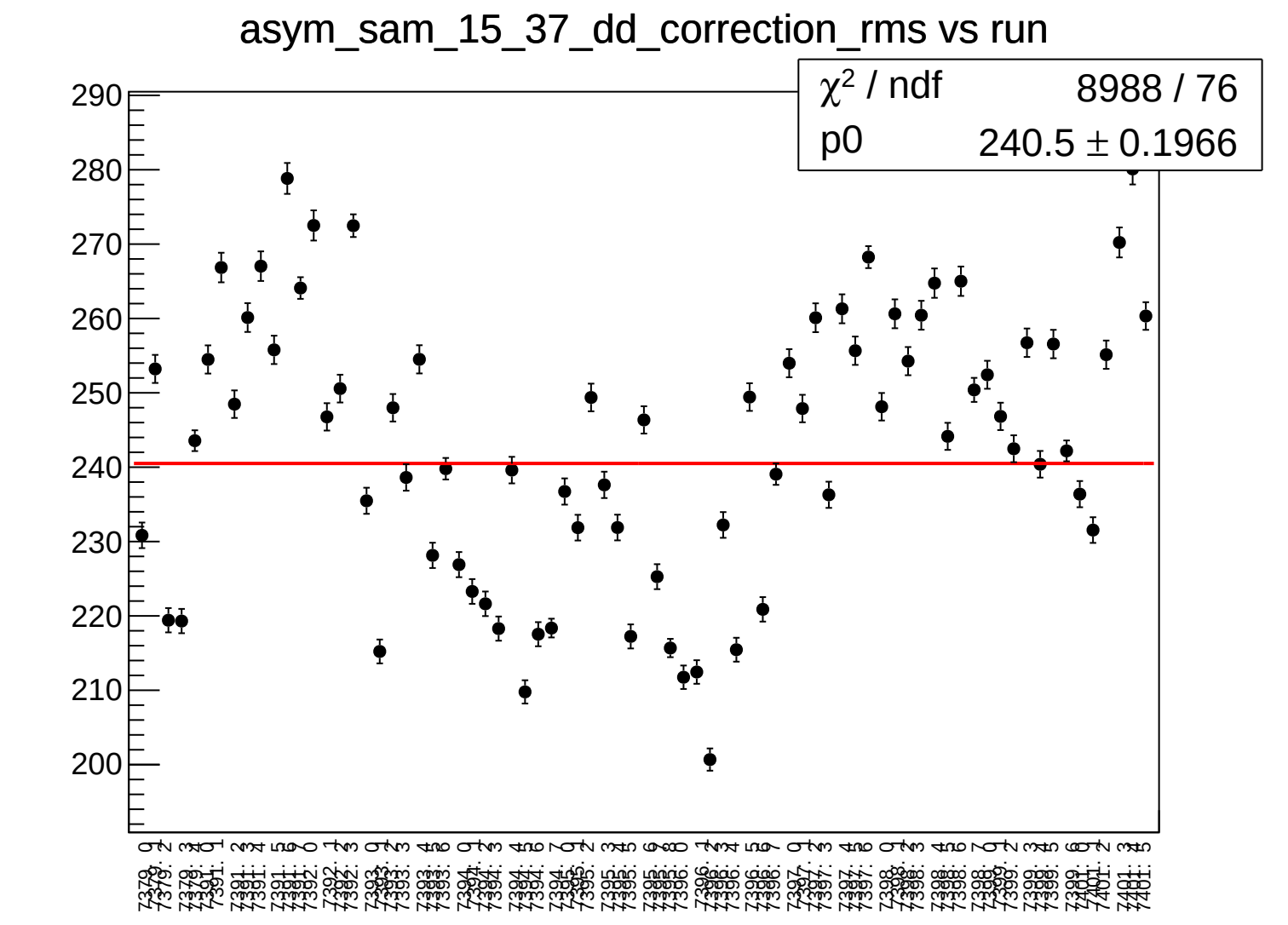

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 58.7 / 76
p0 −19.82 ± 47.77
pull
Entries 77
Mean 96.77
Std Dev 71.43

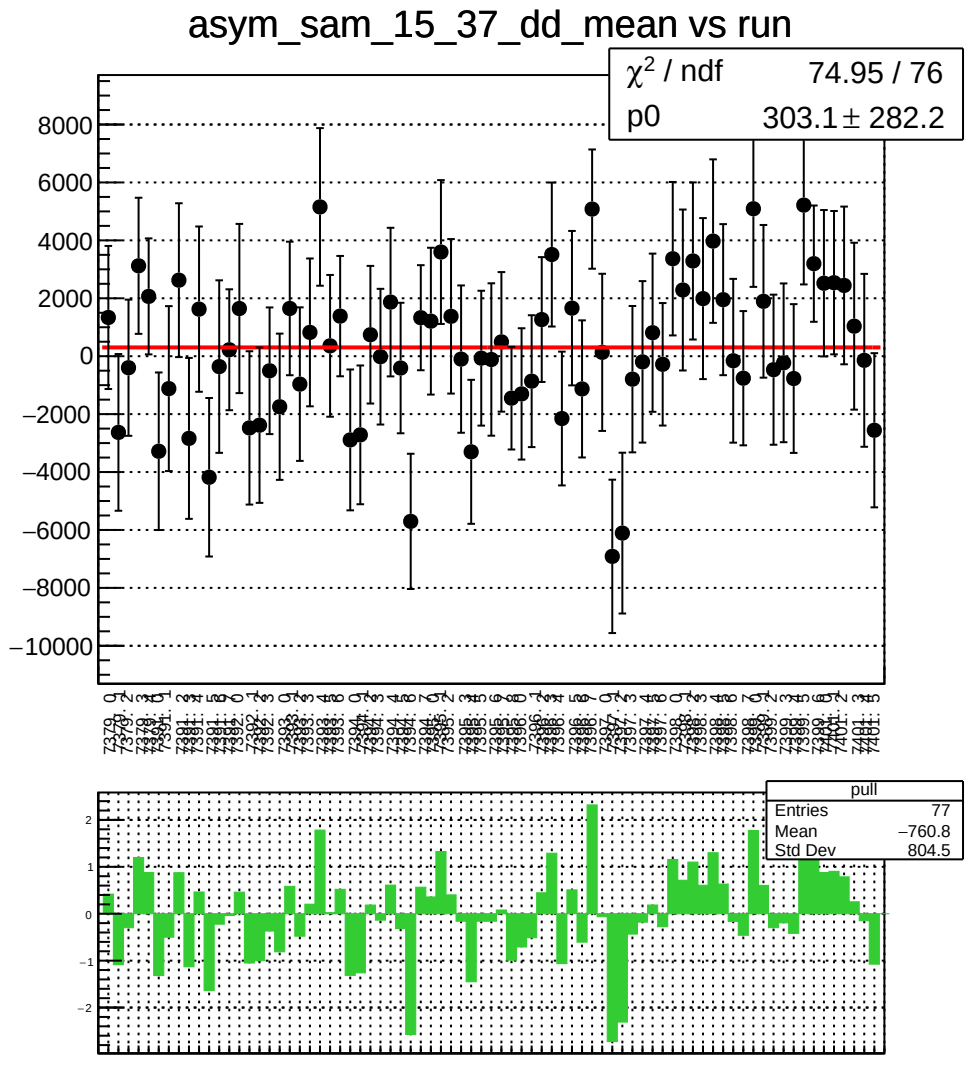

pull1D
Entries 77
Mean 0.01642
Std Dev 0.873

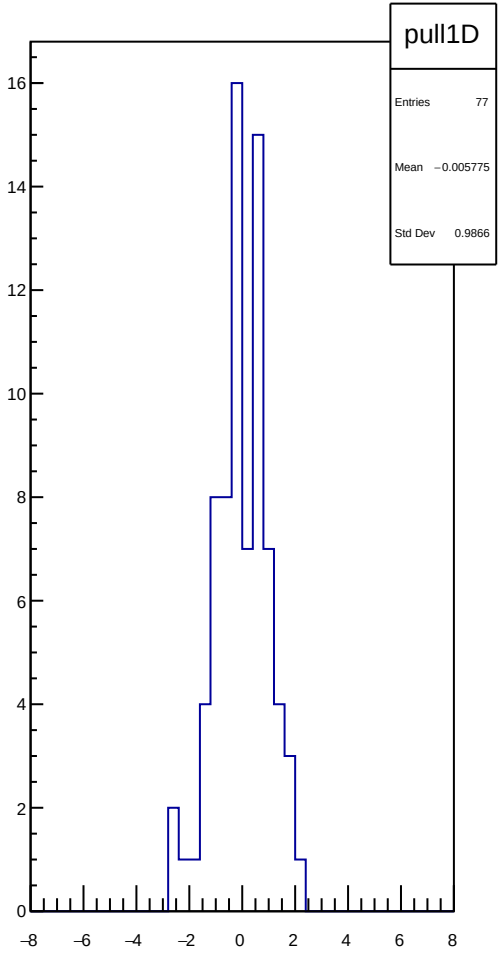

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 3179 / 76
p0 41.4 ± 0.03378
52
50
48
46
44
42
40
38

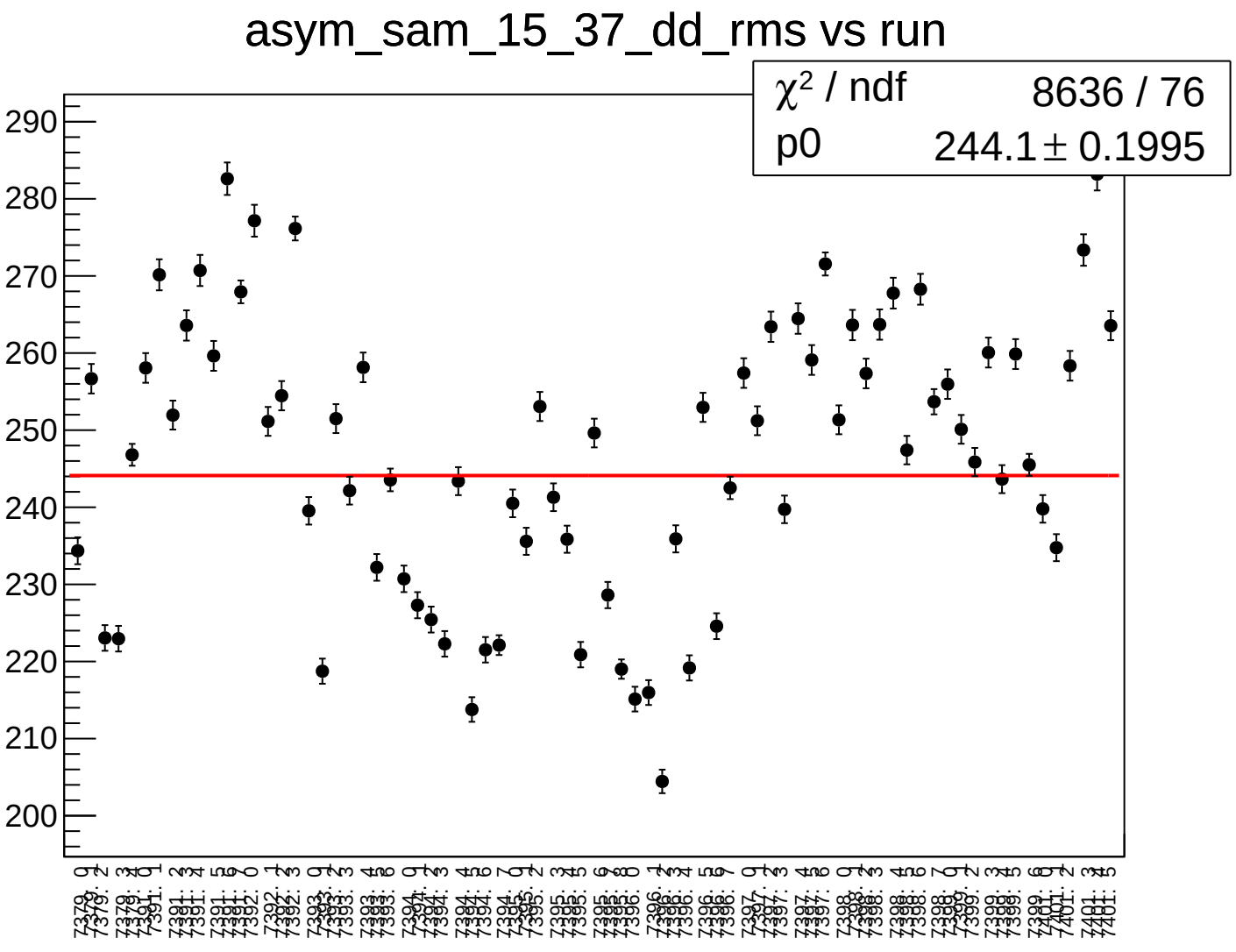

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 80.68 / 76
p0 −324.5 ± 278
10000
5000
0
−5000
−10000
pull
Entries 77
Mean −477.6
Std Dev 522
3
2
1
0
−1
−2
−3

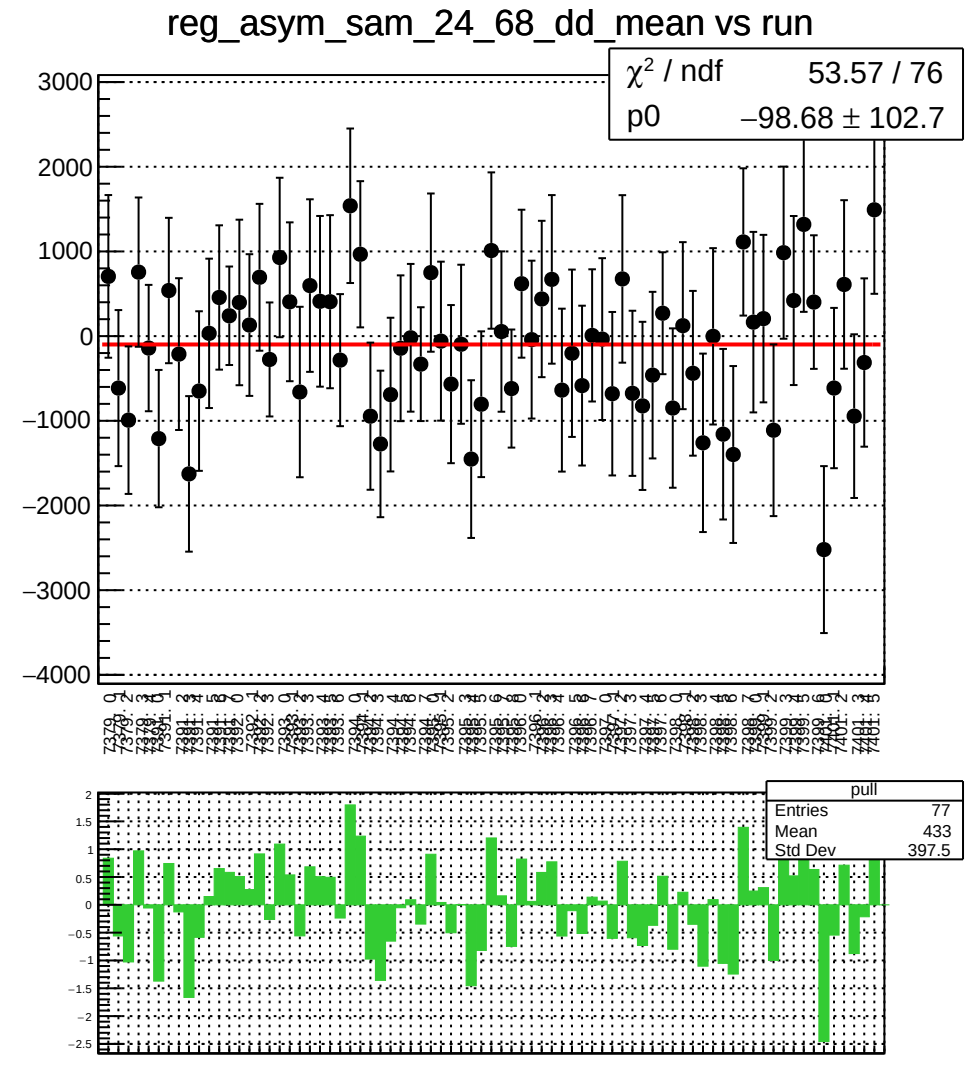

pull1D
Entries 77
Mean 0.008737
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

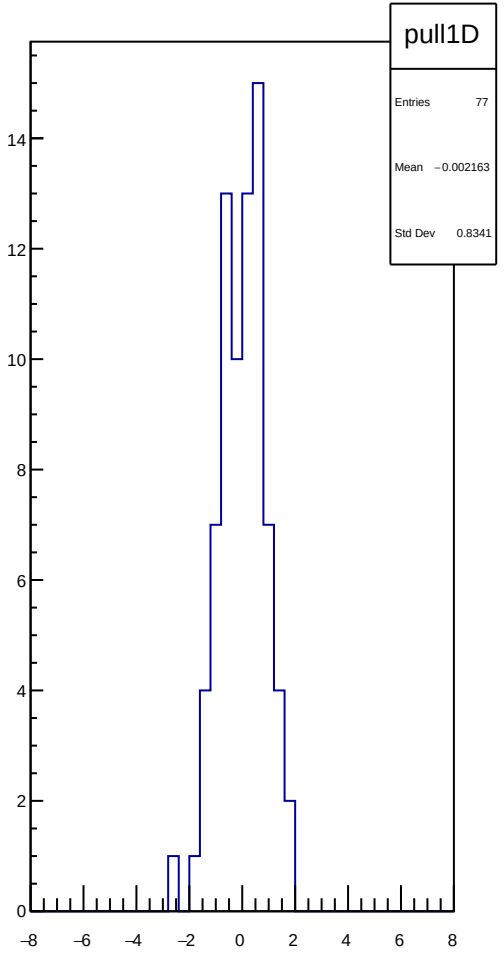

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 8988 / 76
p0 240.5 ± 0.1966
290
280
270
260
250
240
230
220
210
200

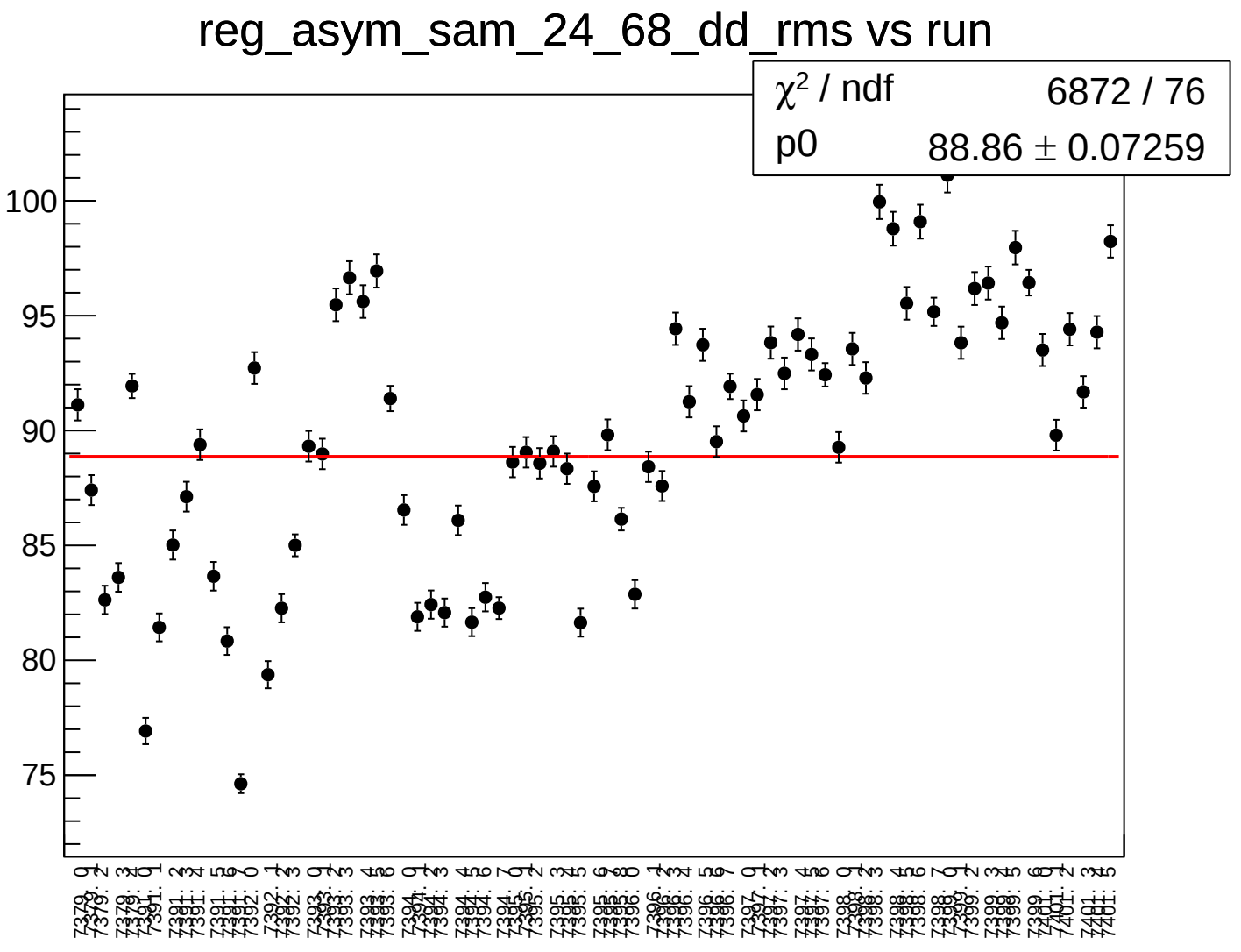

asym_sam_15_37_dd_mean vs run
χ² / ndf 74.95 / 76
p0 303.1 ± 282.2
pull
Entries 77
Mean −760.8
Std Dev 804.5

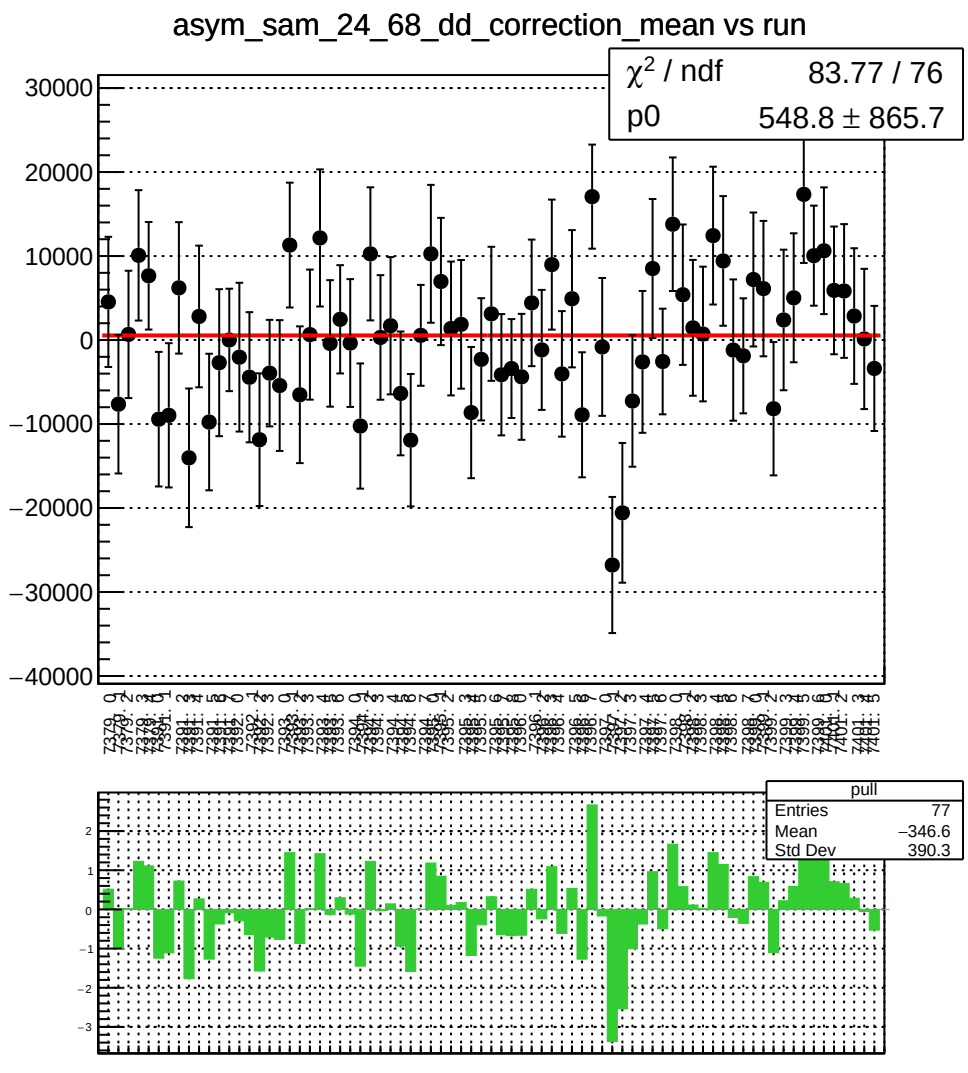

pull1D
Entries 77
Mean −0.005775
Std Dev 0.9866

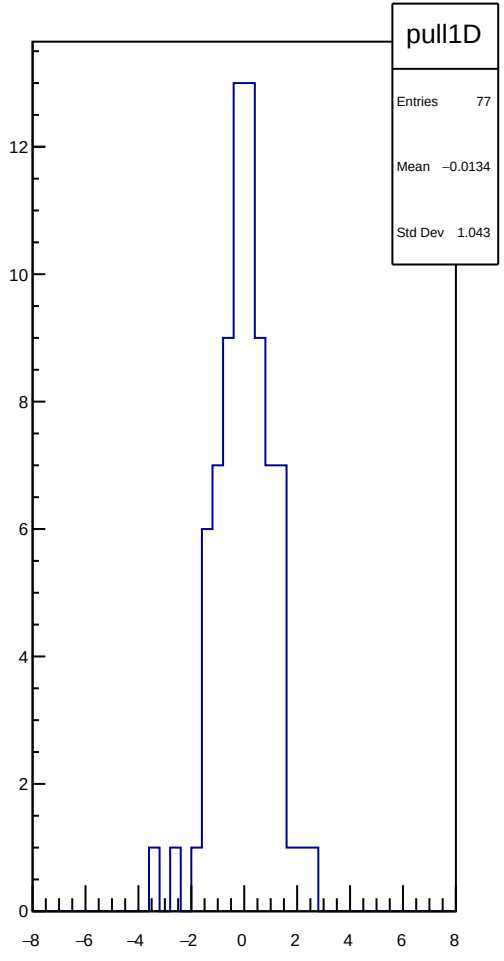

asym_sam_15_37_dd_rms vs run
χ² / ndf 8636 / 76
p0 244.1 ± 0.1995
290
280
270
260
250
240
230
220
210
200

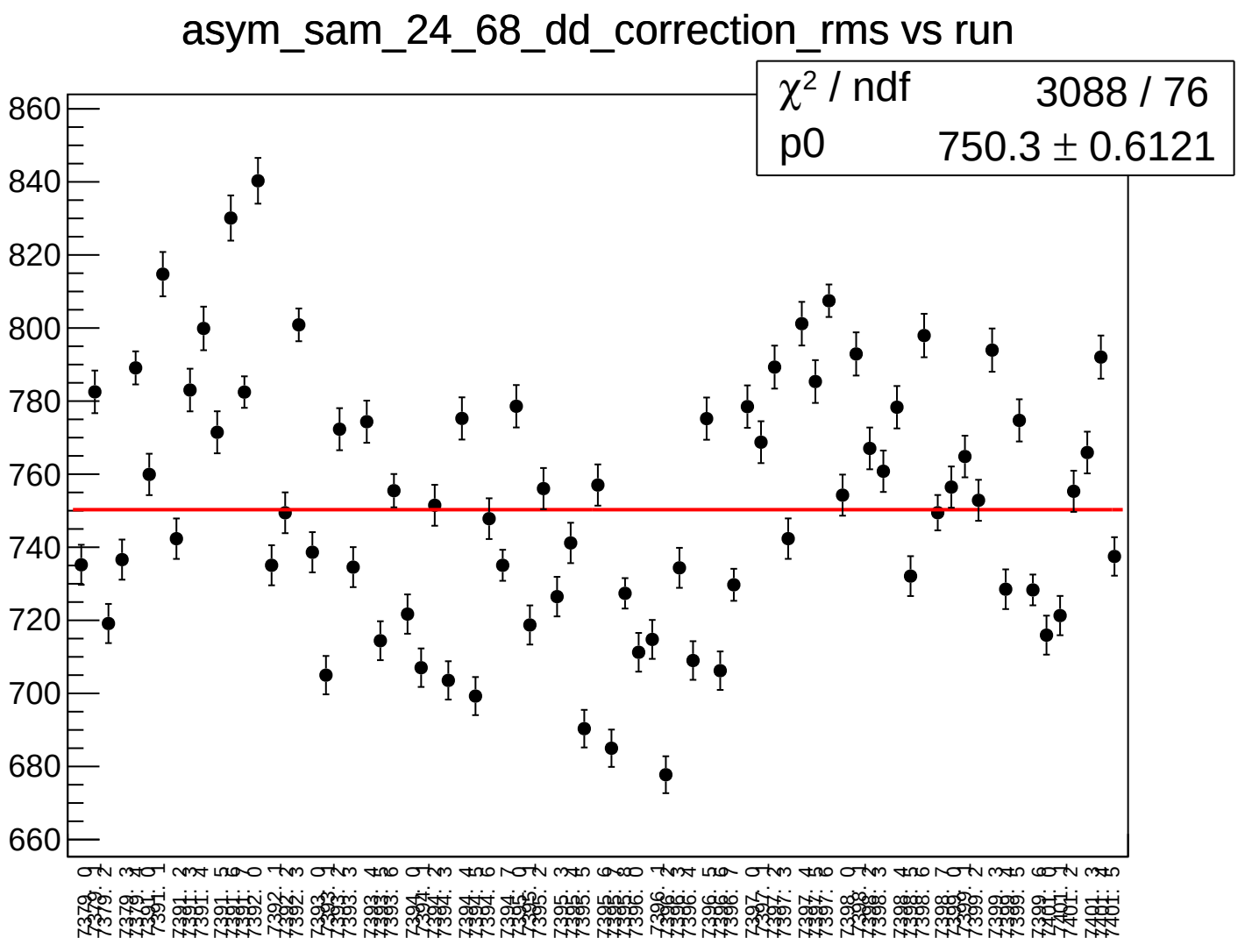

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 53.57 / 76
p0 −98.68 ± 102.7
pull
Entries 77
Mean 433
Std Dev 397.5

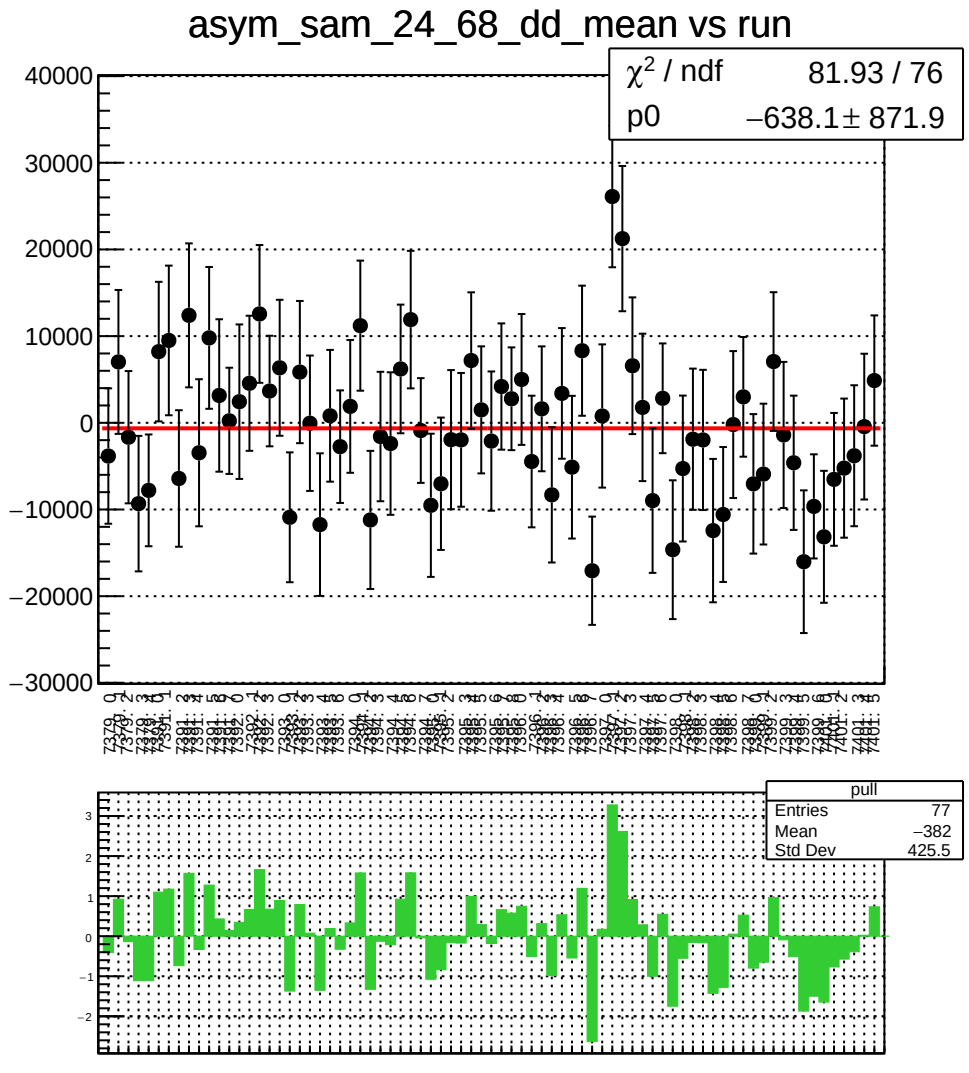

pull1D
Entries 77
Mean −0.002163
Std Dev 0.8341

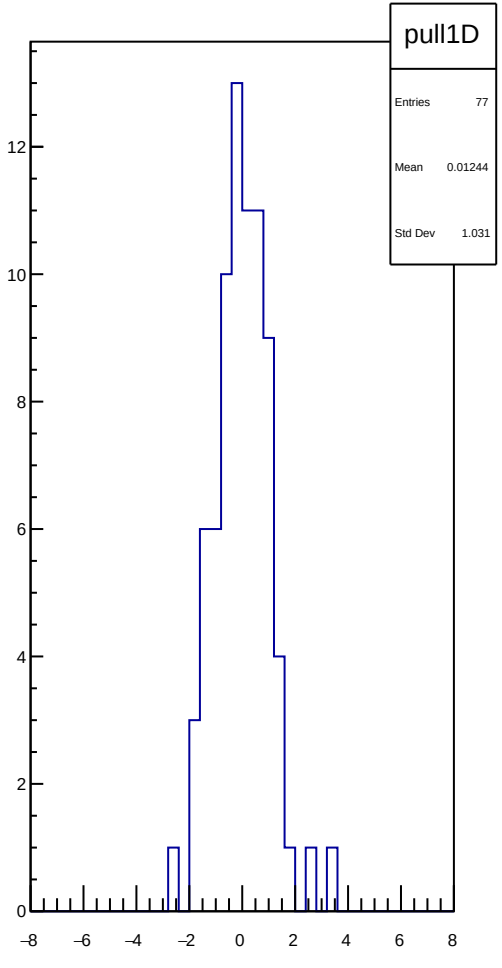

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 6872 / 76
p0 88.86 ± 0.07259
100
95
90
85
80
75

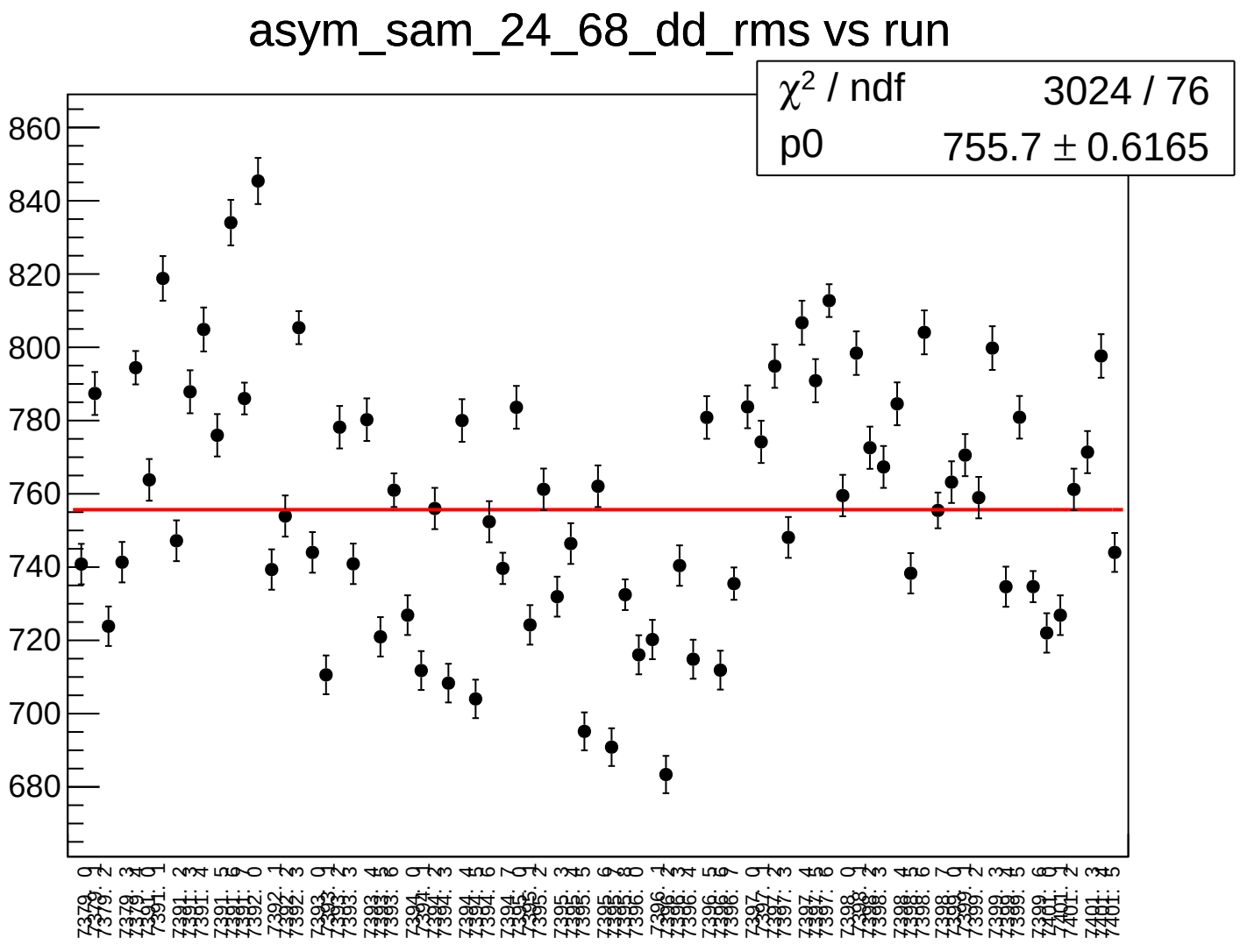

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 83.77 / 76
p0 548.8 ± 865.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 77
Mean −346.6
Std Dev 390.3
2
1
0
−1
−2
−3

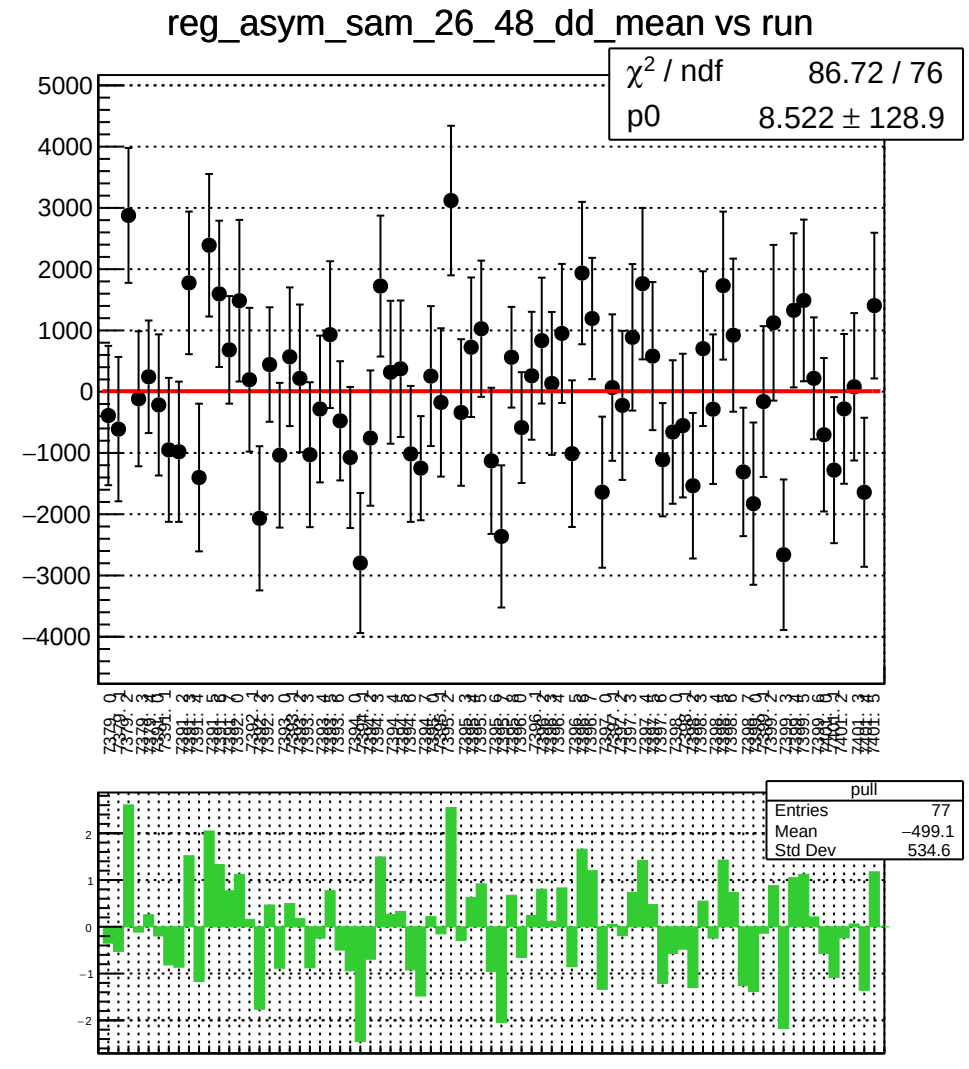

pull1D
Entries 77
Mean −0.0134
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

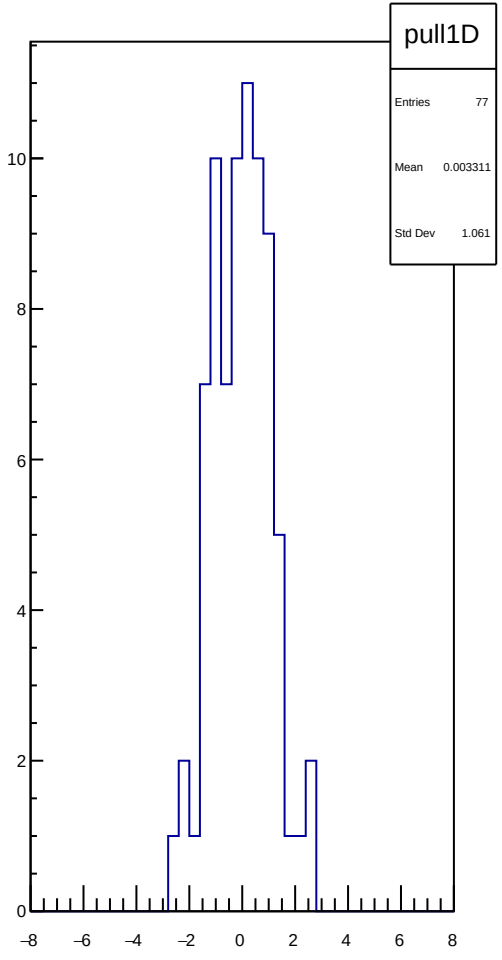

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 3088 / 76
p0 750.3 ± 0.6121
860
840
820
800
780
760
740
720
700
680
660

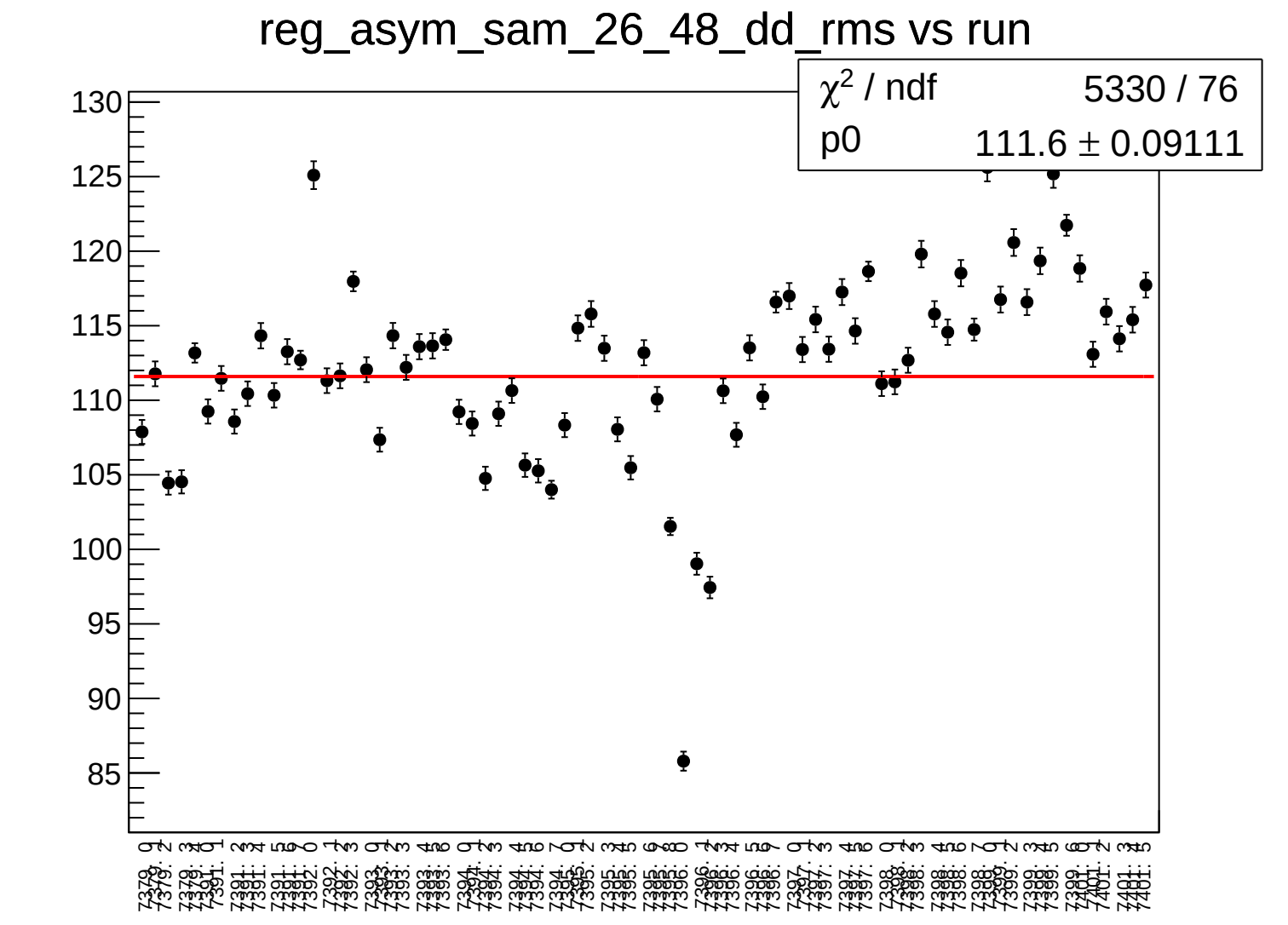

asym_sam_24_68_dd_mean vs run
χ² / ndf 81.93 / 76
p0 −638.1 ± 871.9
pull
Entries 77
Mean −382
Std Dev 425.5

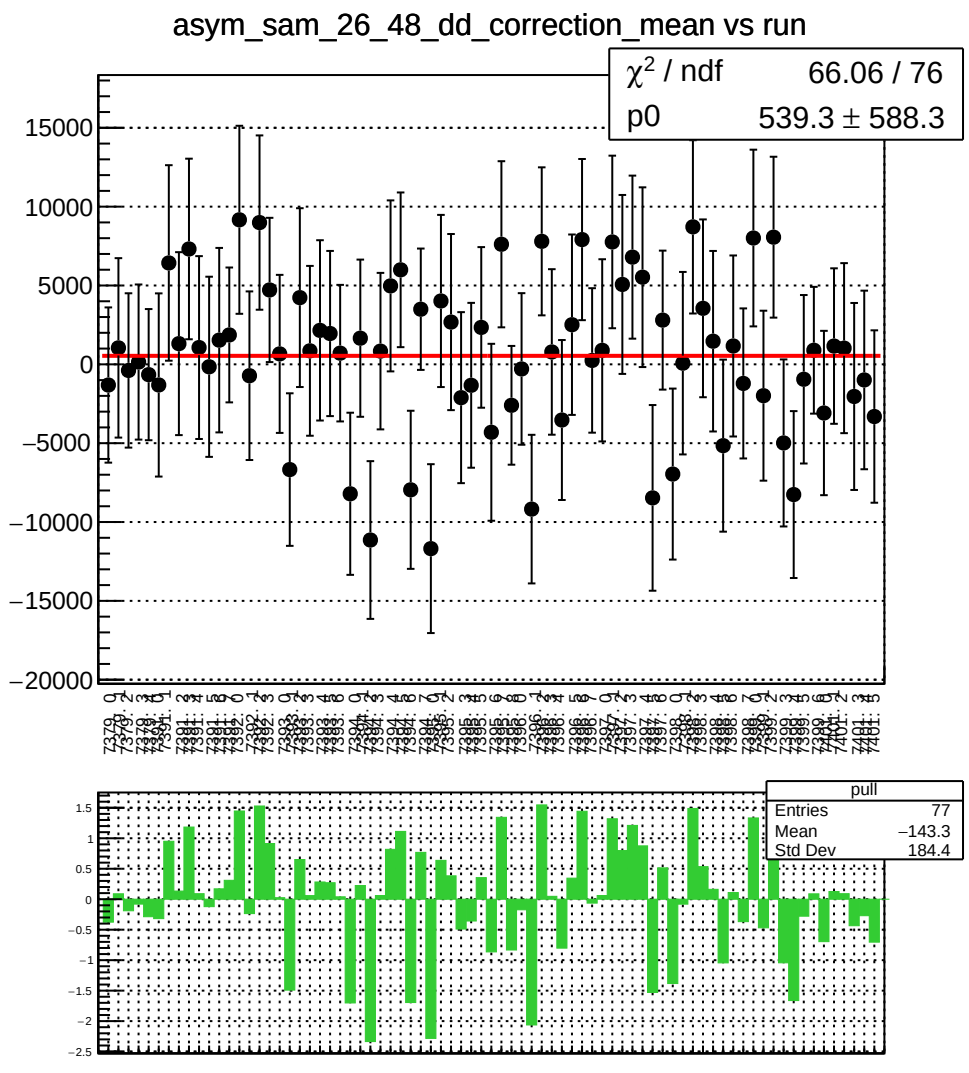

pull1D
Entries 77
Mean 0.01244
Std Dev 1.031

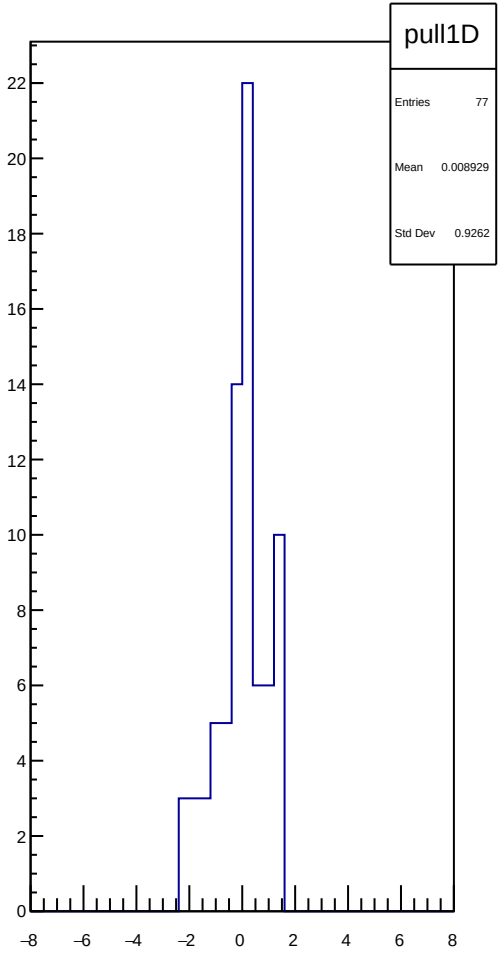

asym_sam_24_68_dd_rms vs run
χ² / ndf 3024 / 76
p0 755.7 ± 0.6165
860
840
820
800
780
760
740
720
700
680

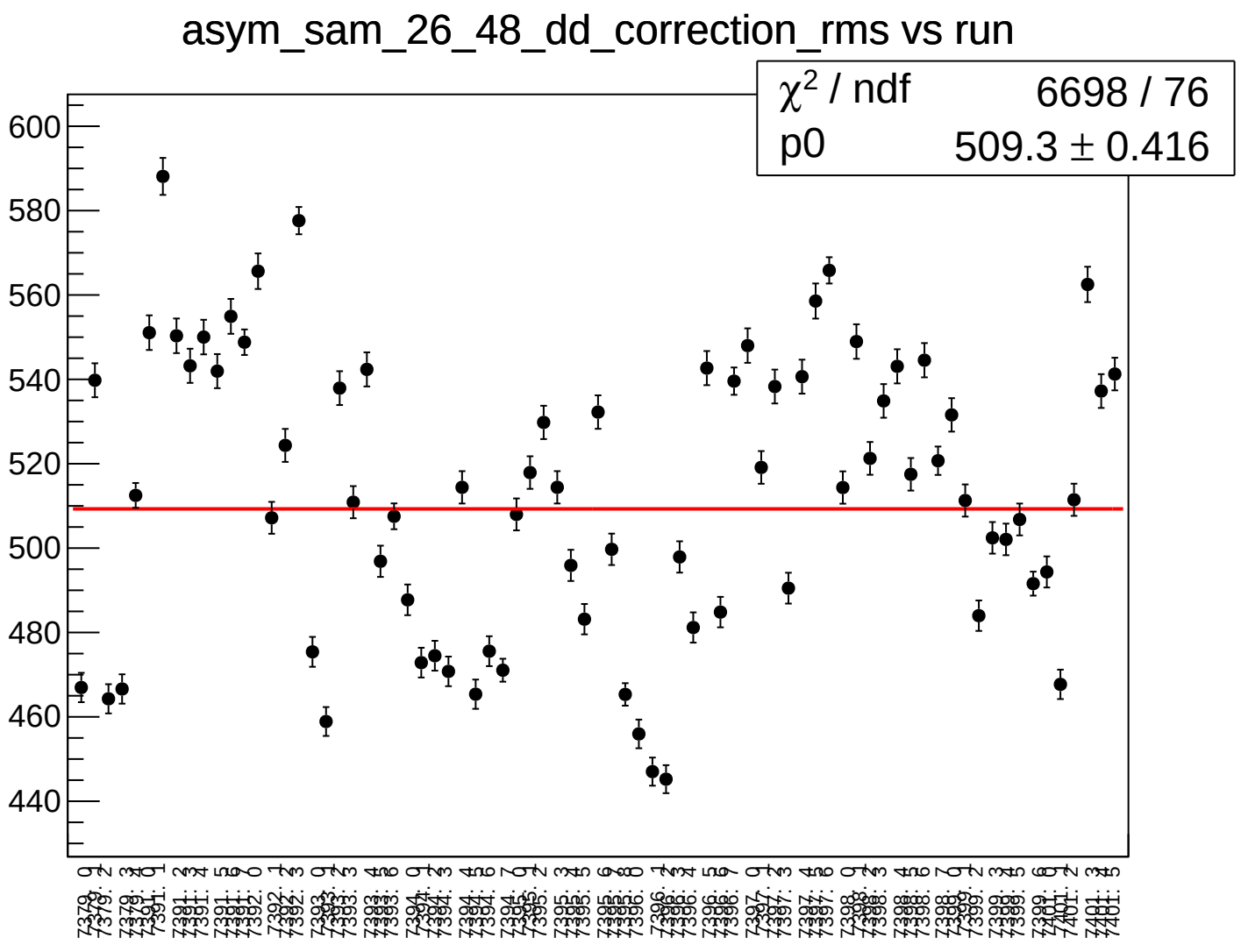

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 86.72 / 76
p0 8.522 ± 128.9
pull
Entries 77
Mean −499.1
Std Dev 534.6

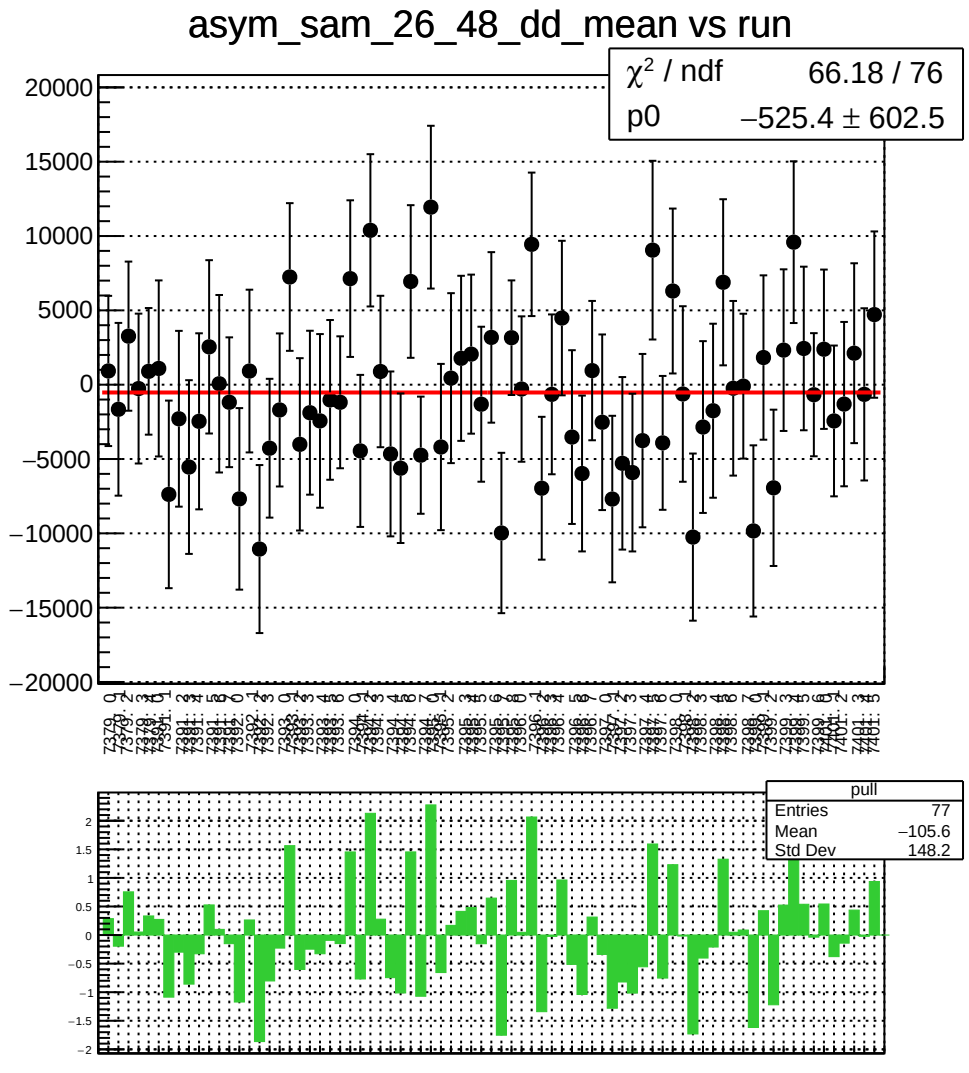

pull1D
Entries 77
Mean 0.003311
Std Dev 1.061

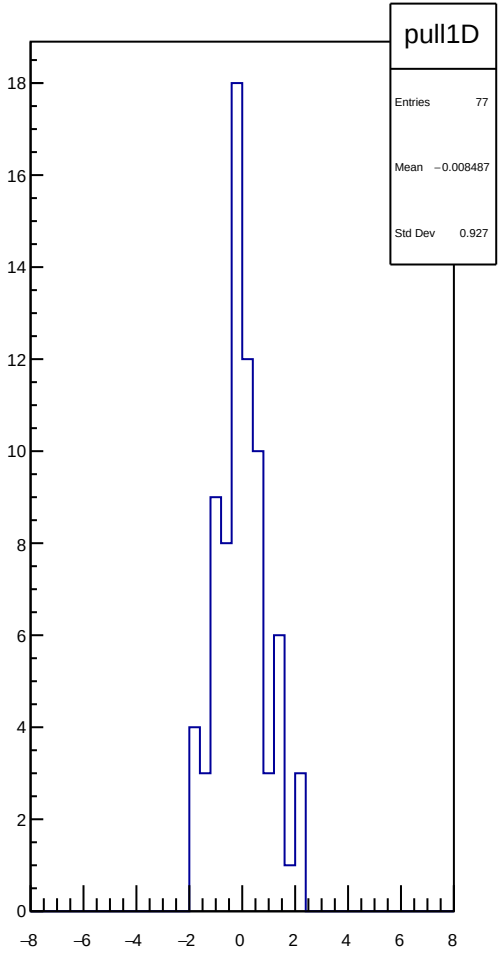

reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 5330 / 76
p0 111.6 ± 0.09111
130
125
120
115
110
105
100
95
90
85

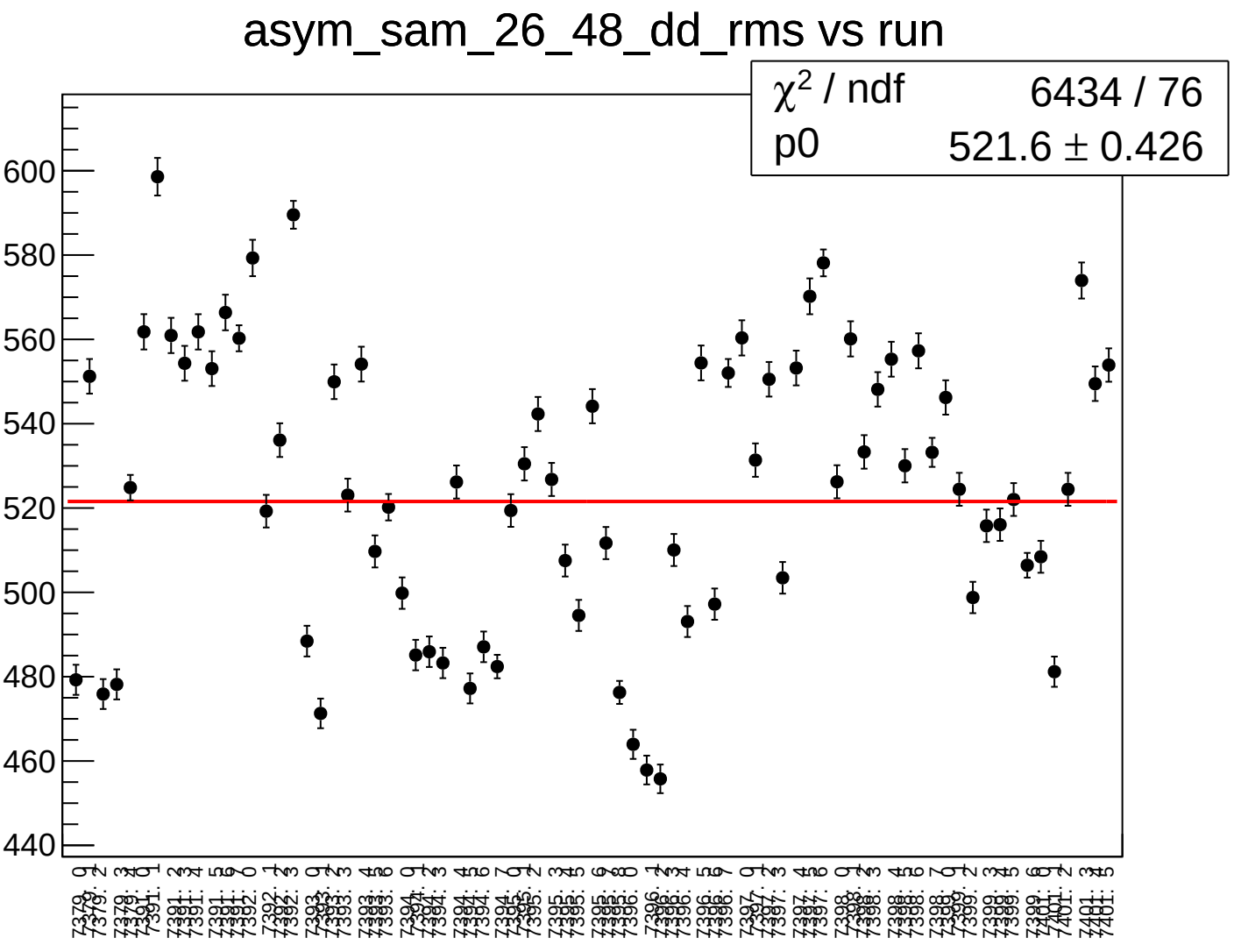

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 66.06 / 76
p0 539.3 ± 588.3
pull
Entries 77
Mean −143.3
Std Dev 184.4

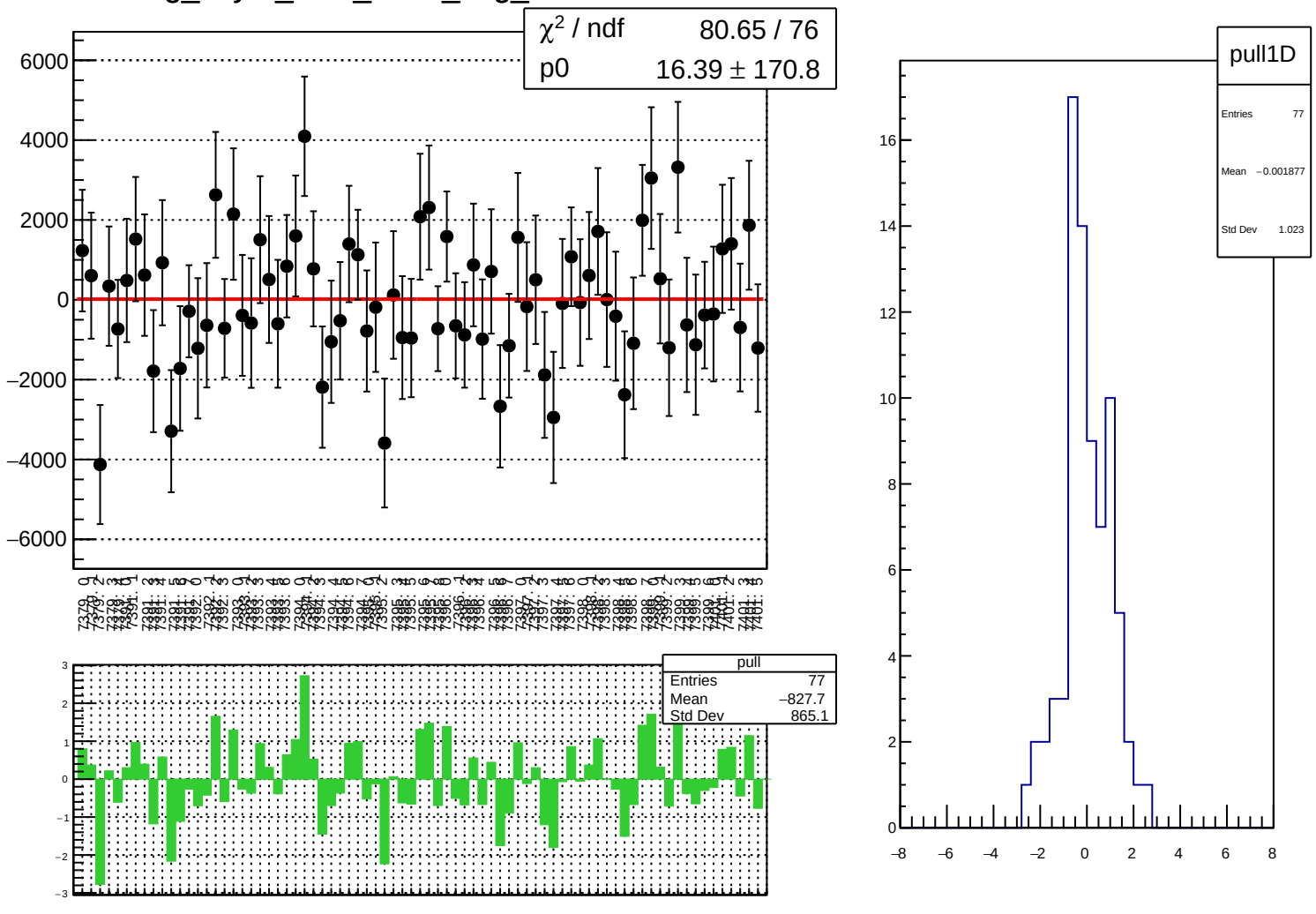

pull1D
Entries 77
Mean 0.008929
Std Dev 0.9262

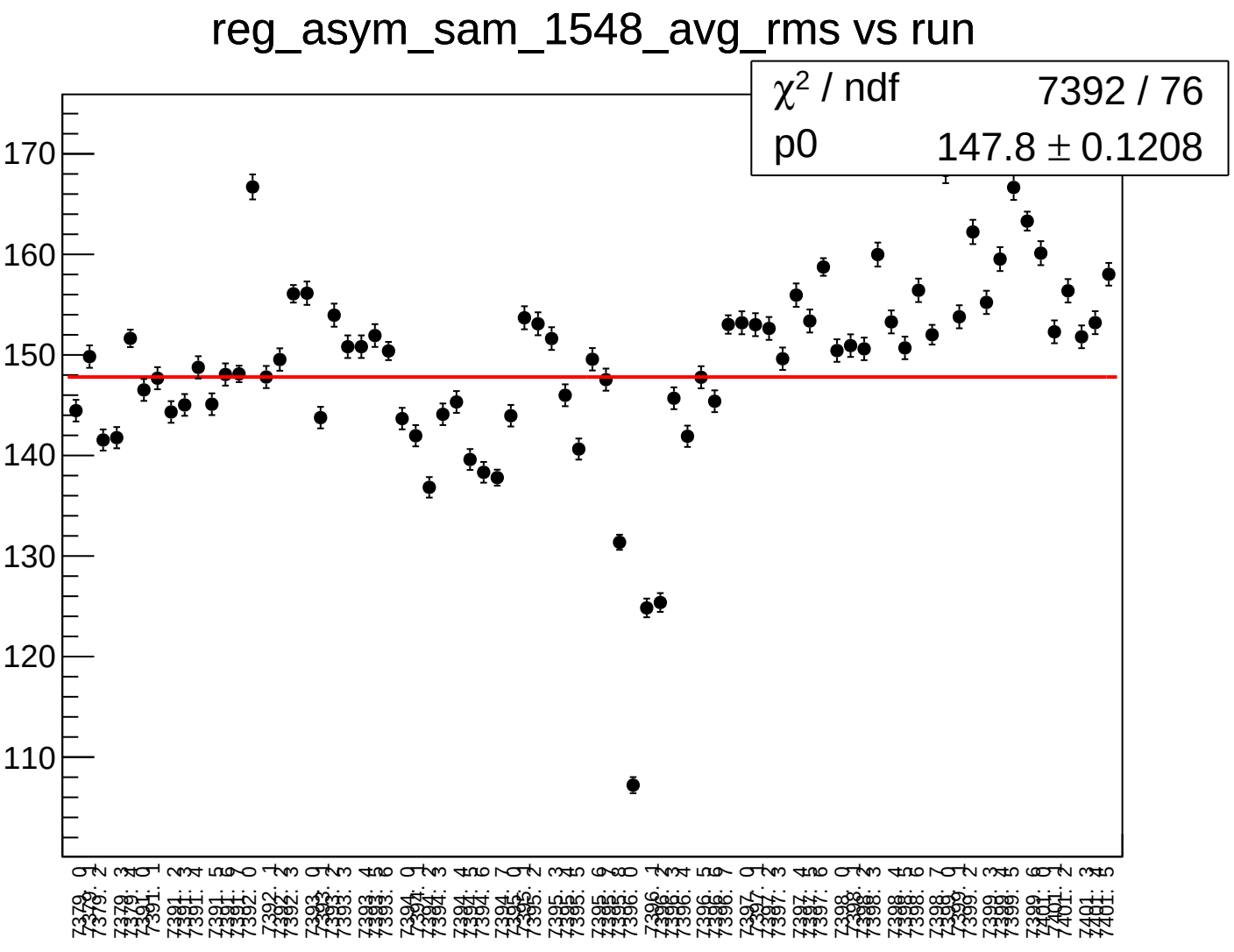

asym_sam_26_48_dd_correction_rms vs run
χ^2 / ndf 6698 / 76
p0 509.3 ± 0.416
600
580
560
540
520
500
480
460
440

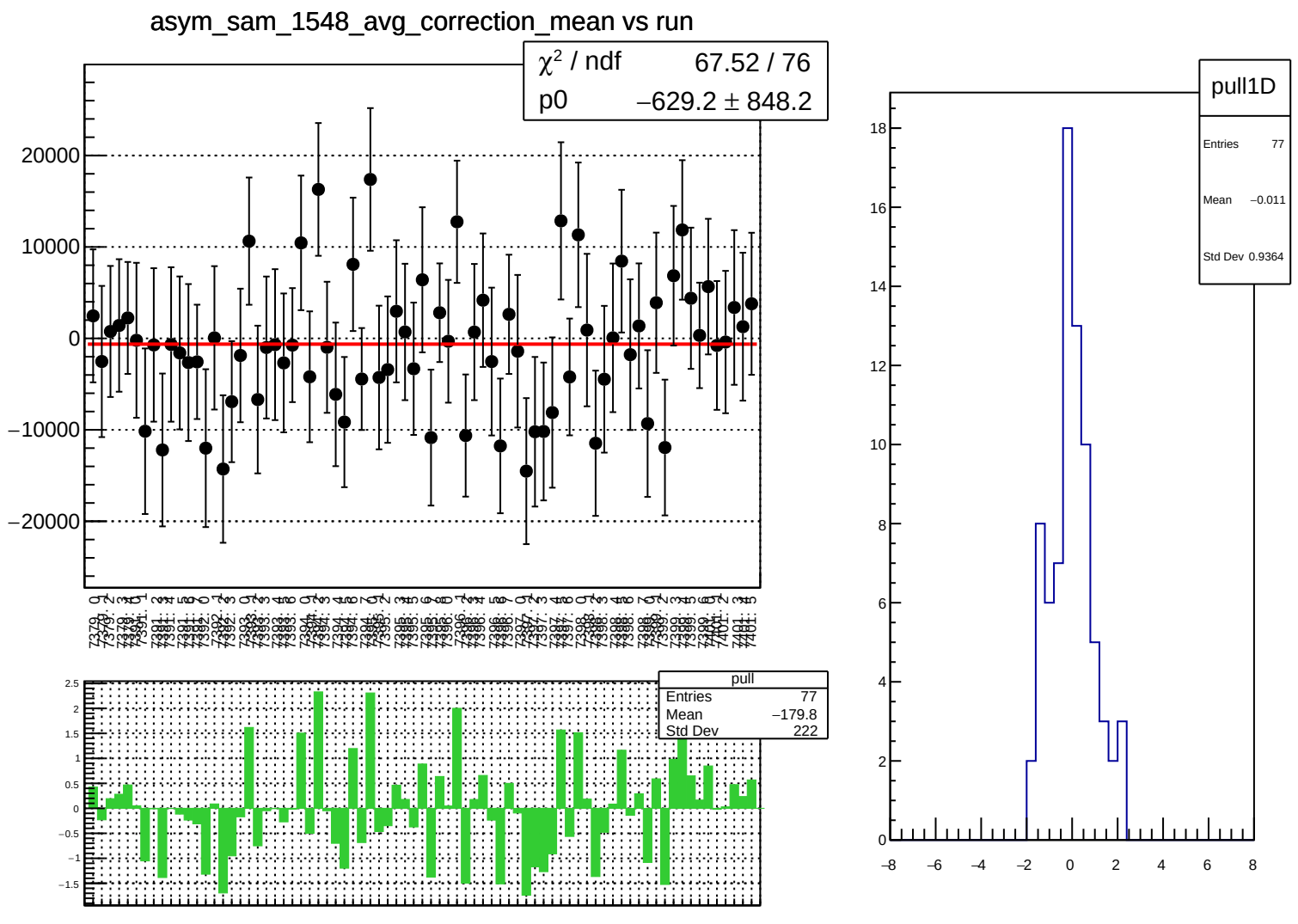

asym_sam_26_48_dd_mean vs run
χ² / ndf 66.18 / 76
p0 −525.4 ± 602.5
pull
Entries 77
Mean −105.6
Std Dev 148.2

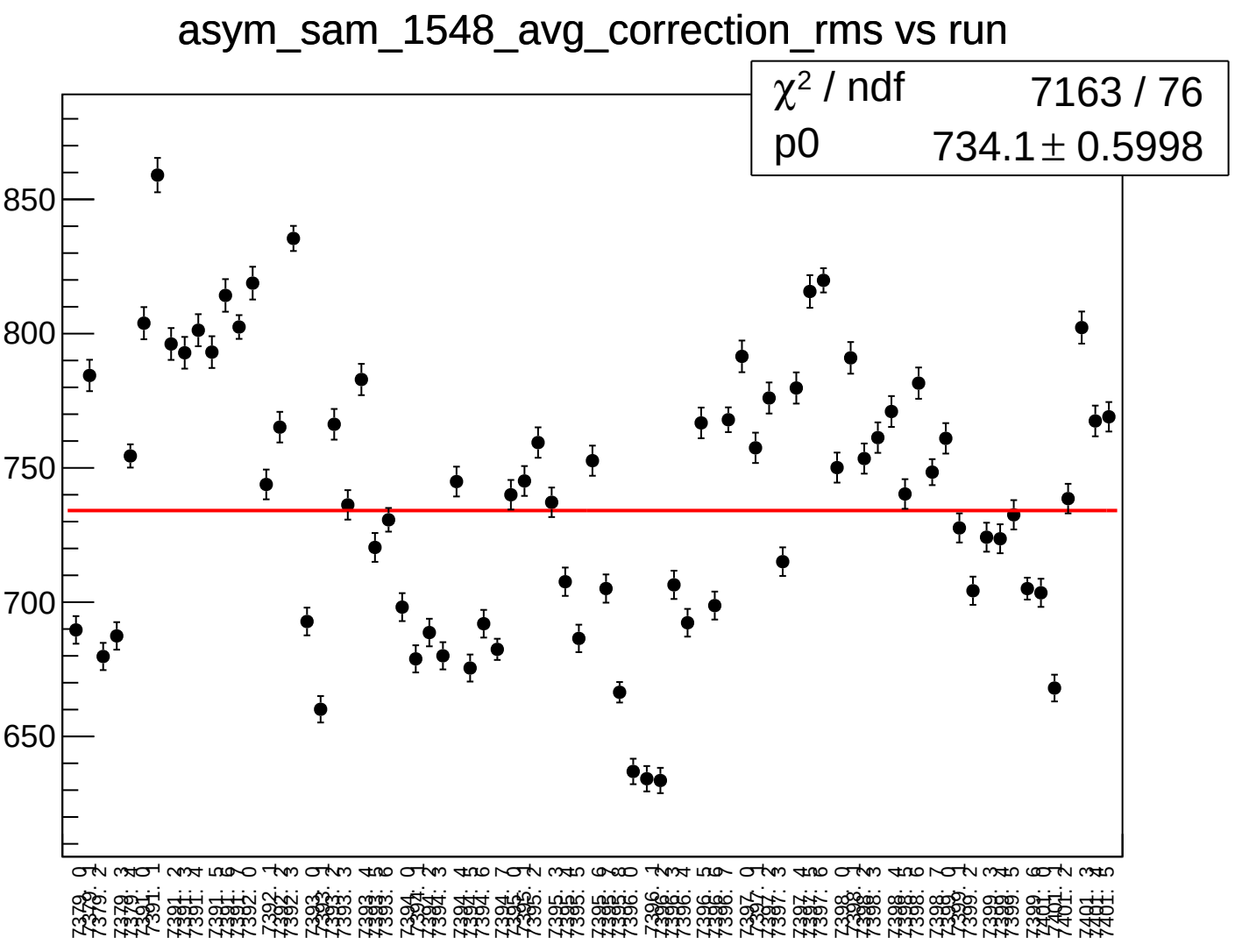

pull1D
Entries 77
Mean −0.008487
Std Dev 0.927

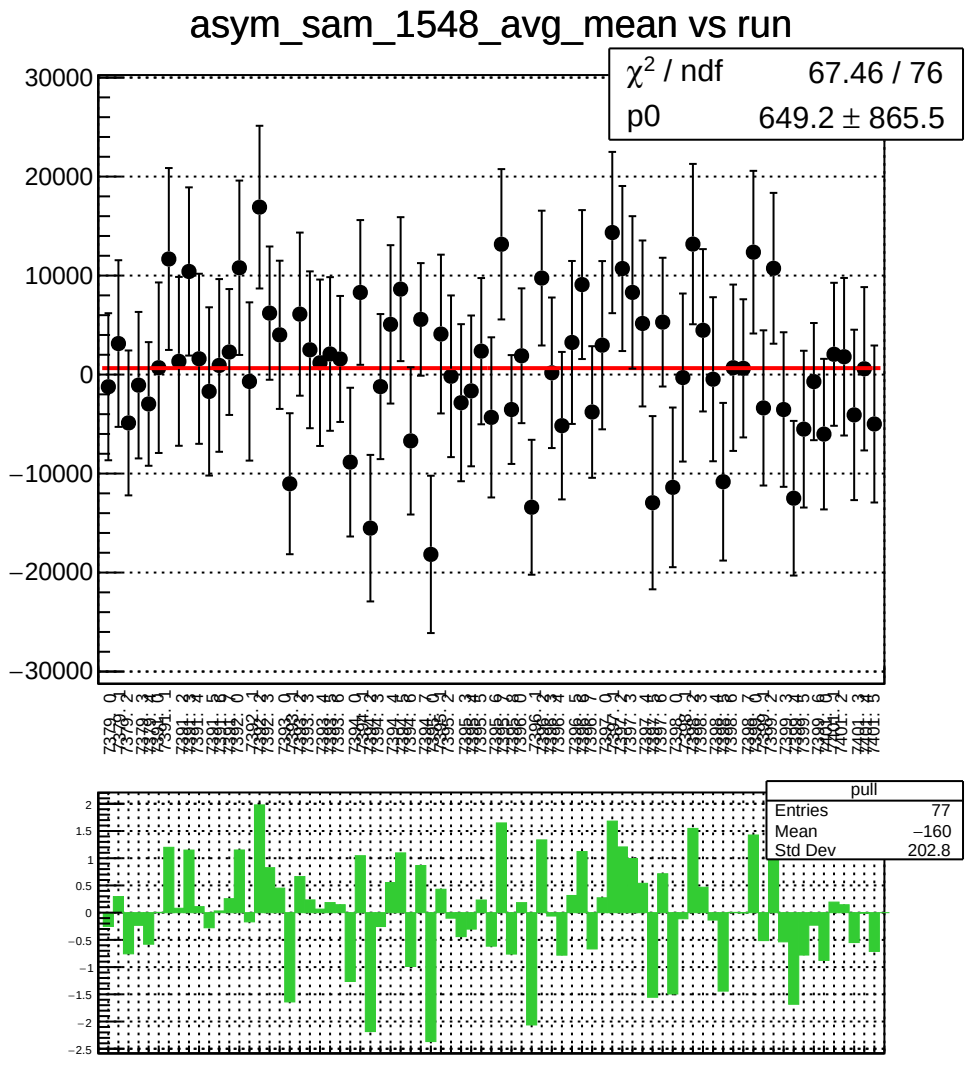

asym_sam_26_48_dd_rms vs run
χ² / ndf 6434 / 76
p0 521.6 ± 0.426
600
580
560
540
520
500
480
460
440

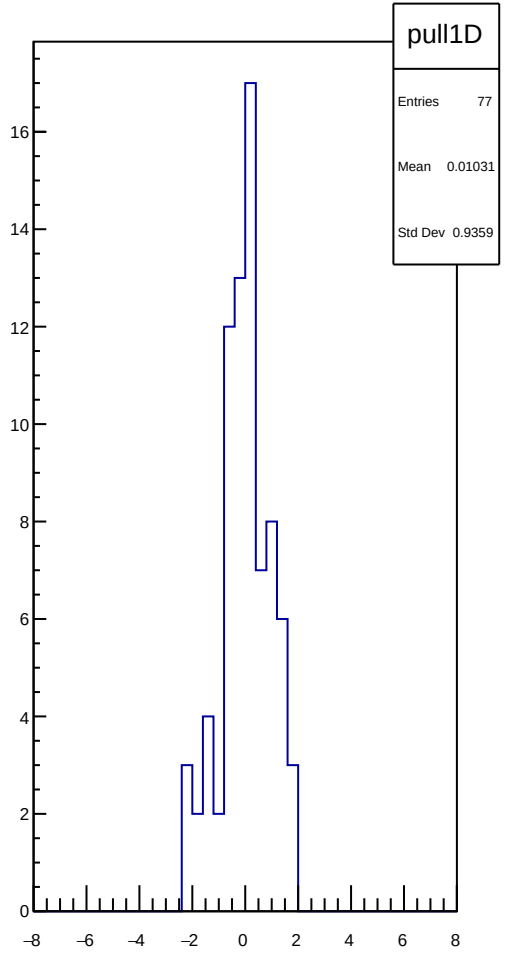

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 80.65 / 76
p0 16.39 ± 170.8
pull
Entries 77
Mean −827.7
Std Dev 865.1
pull1D
Entries 77
Mean −0.001877
Std Dev 1.023

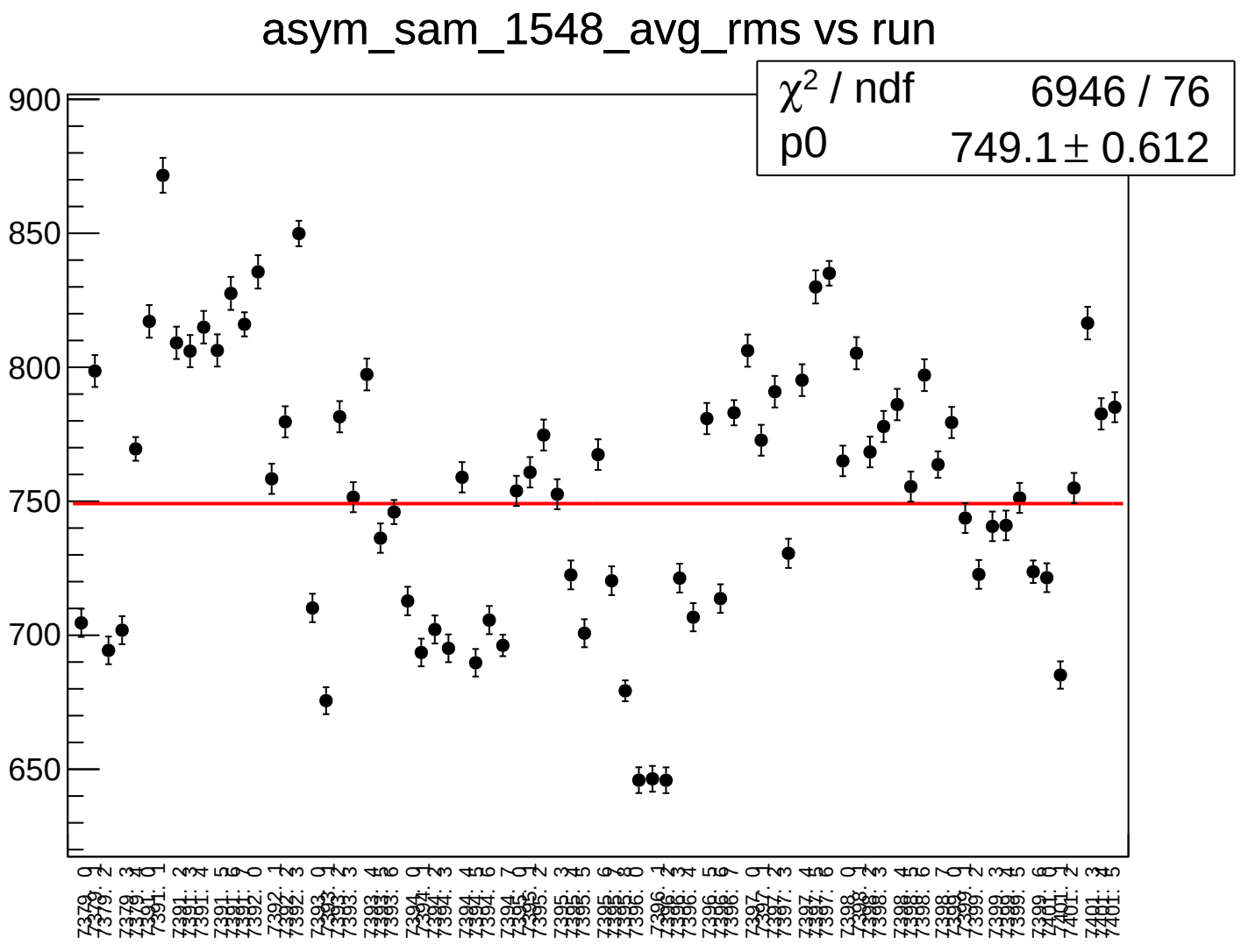

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 7392 / 76
p0 147.8 ± 0.1208
170
160
150
140
130
120
110

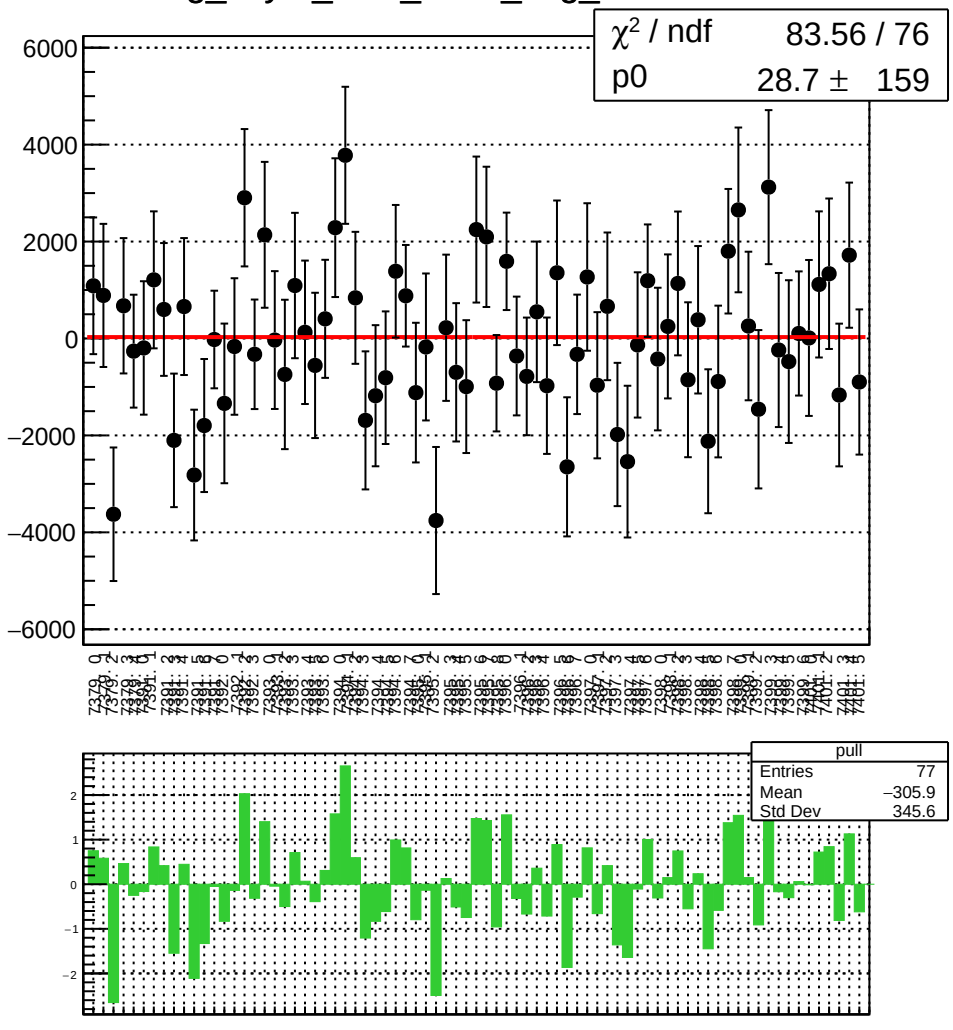

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 67.52 / 76
p0 −629.2 ± 848.2
20000
10000
0
−10000
−20000
pull
Entries 77
Mean −179.8
Std Dev 222
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 77
Mean −0.011
Std Dev 0.9364
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

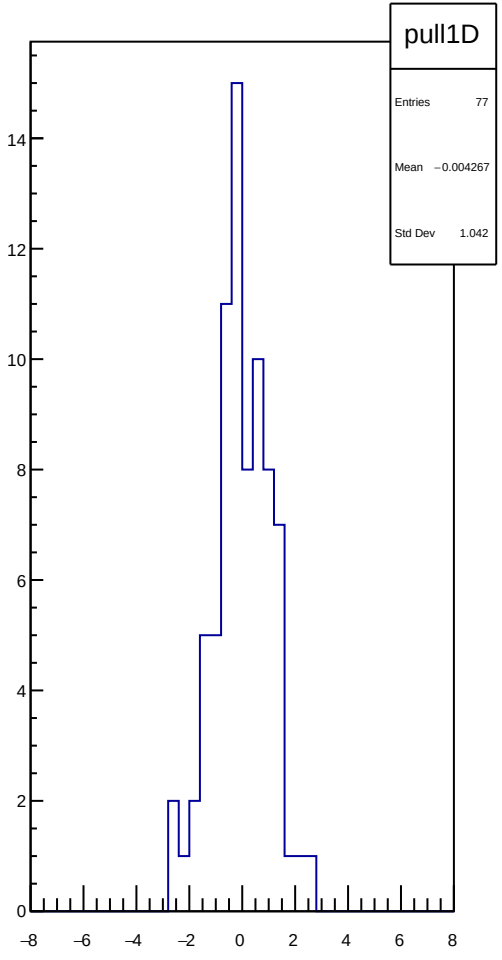

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 7163 / 76
p0 734.1 ± 0.5998
850
800
750
700
650

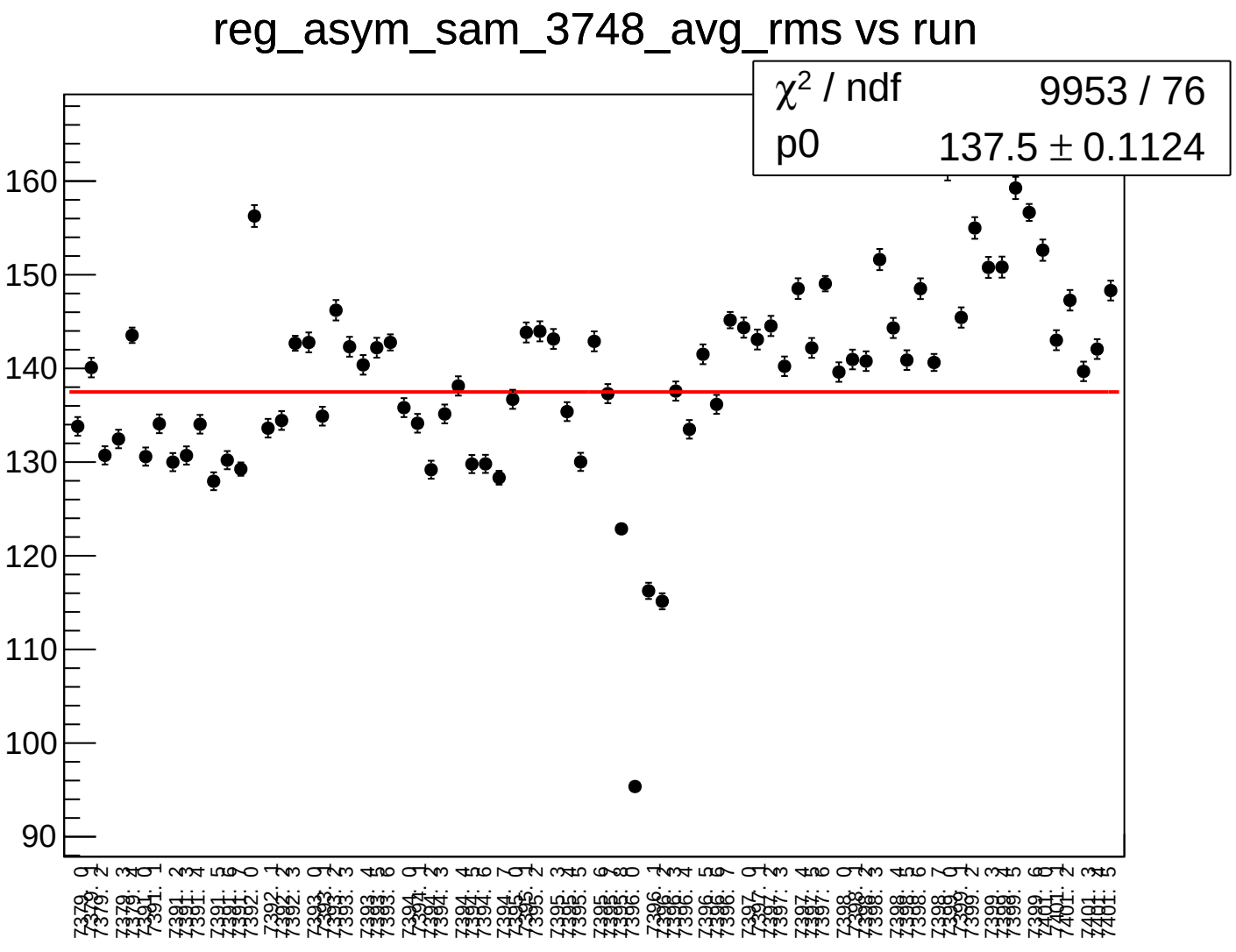

asym_sam_1548_avg_mean vs run
χ² / ndf 67.46 / 76
p0 649.2 ± 865.5
pull
Entries 77
Mean −160
Std Dev 202.8

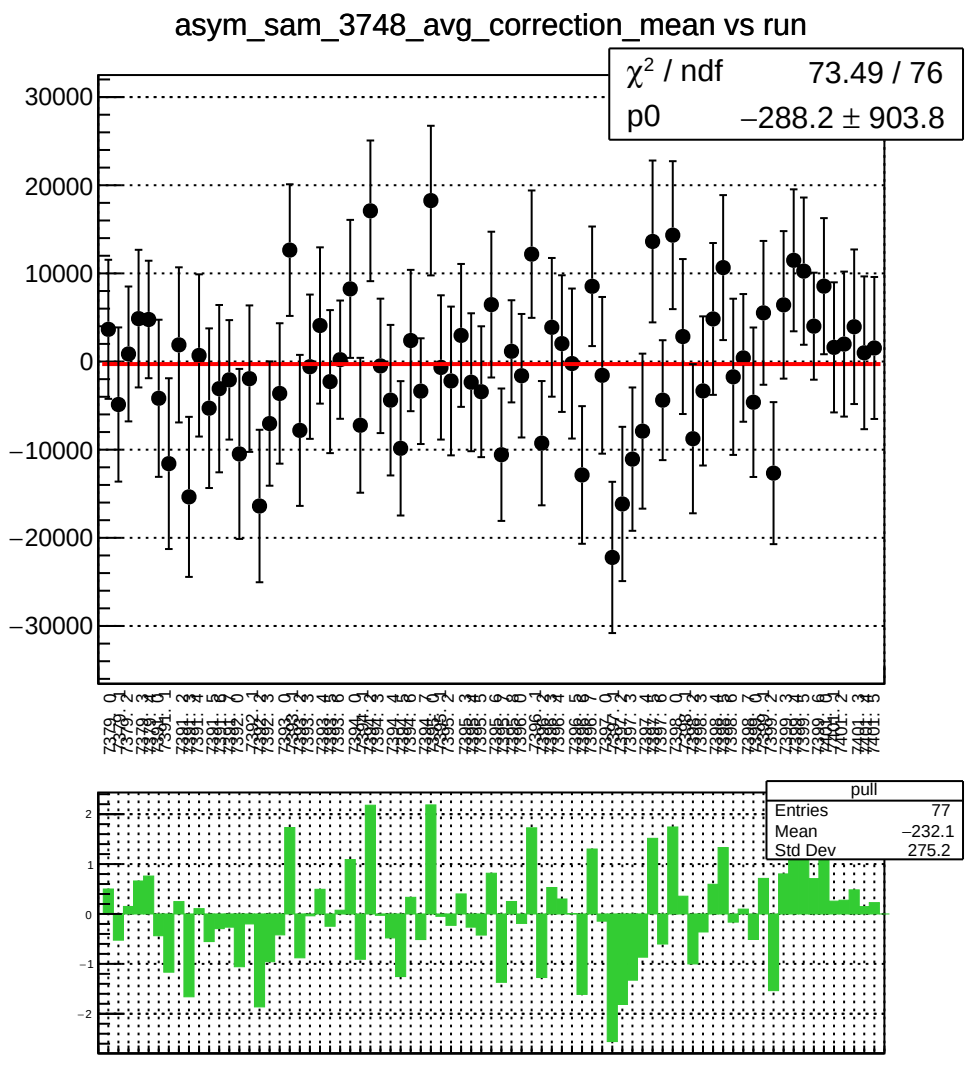

pull1D
Entries 77
Mean 0.01031
Std Dev 0.9359

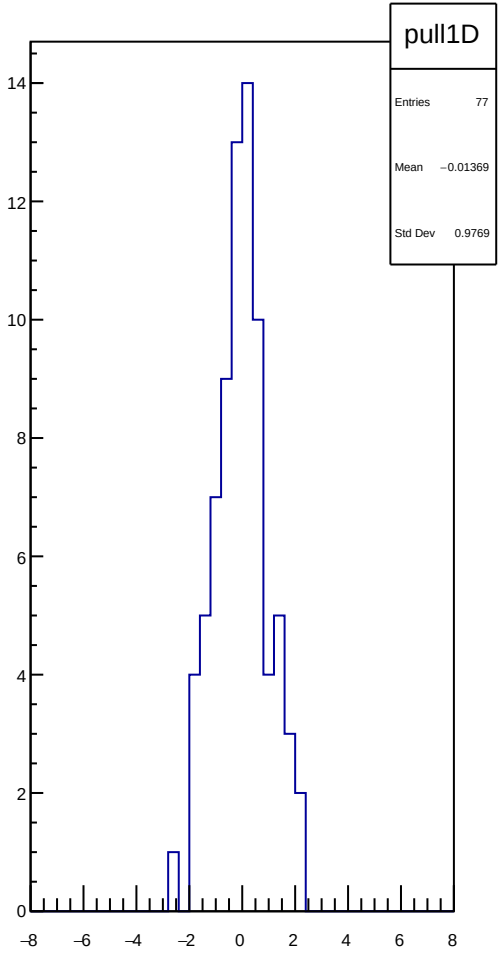

asym_sam_1548_avg_rms vs run
χ² / ndf 6946 / 76
p0 749.1 ± 0.612
900
850
800
750
700
650

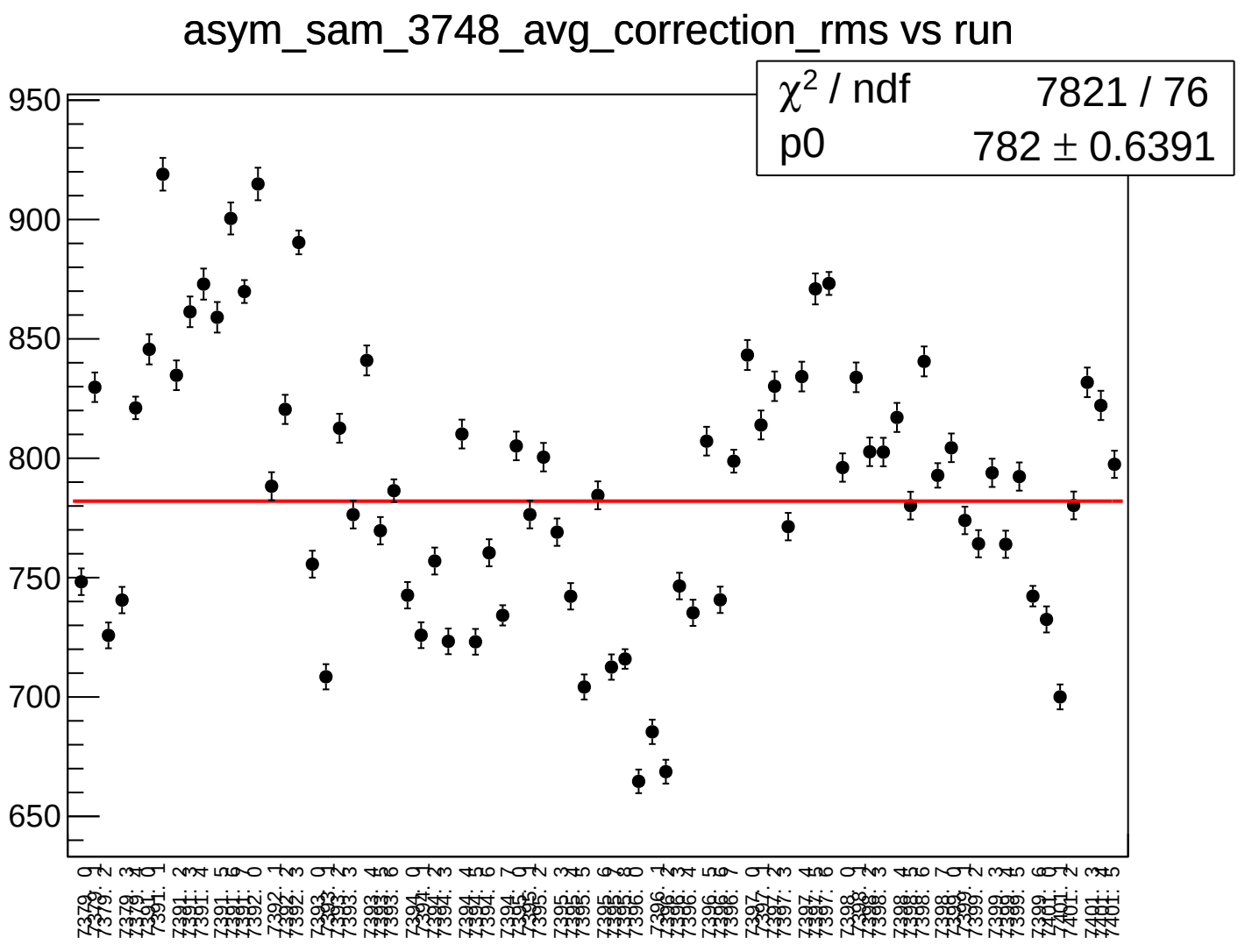

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 83.56 / 76
p0 28.7 ± 159
pull
Entries 77
Mean −305.9
Std Dev 345.6

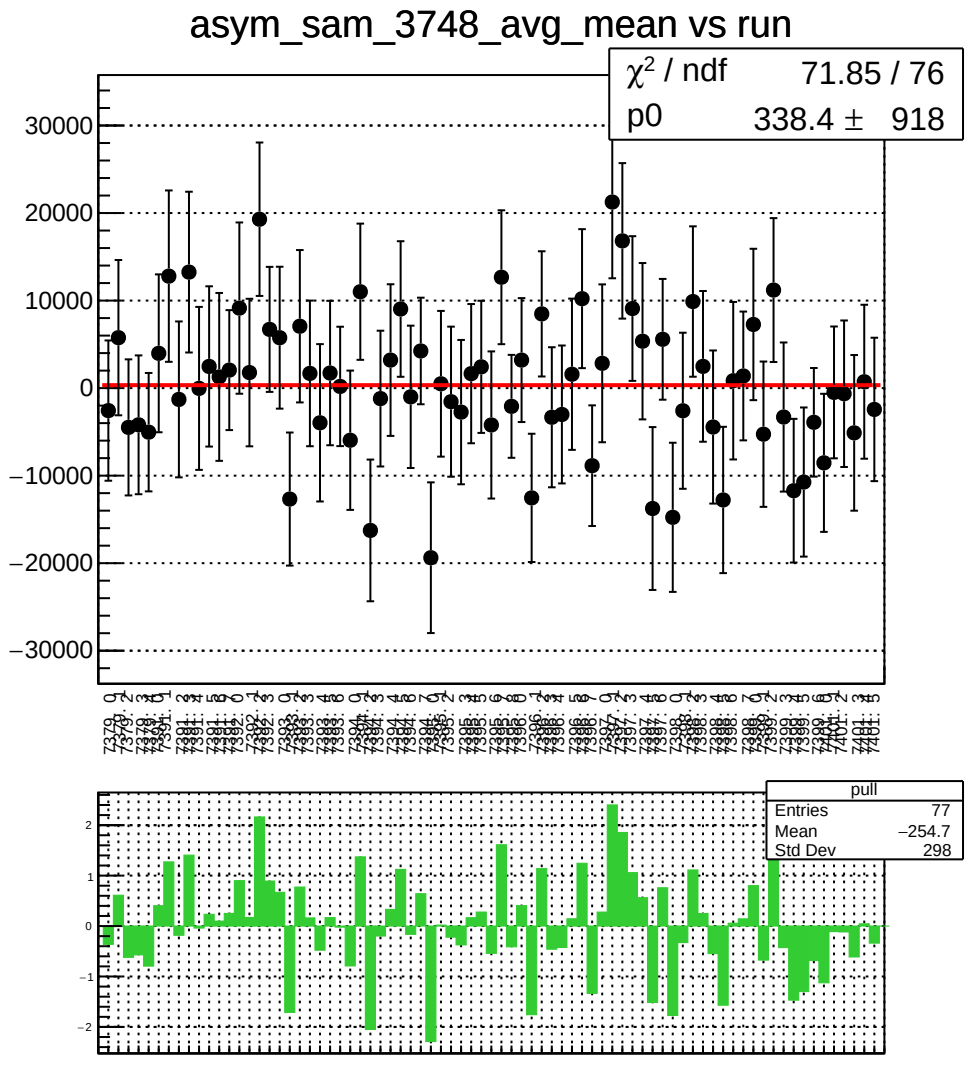

pull1D
Entries 77
Mean −0.004267
Std Dev 1.042

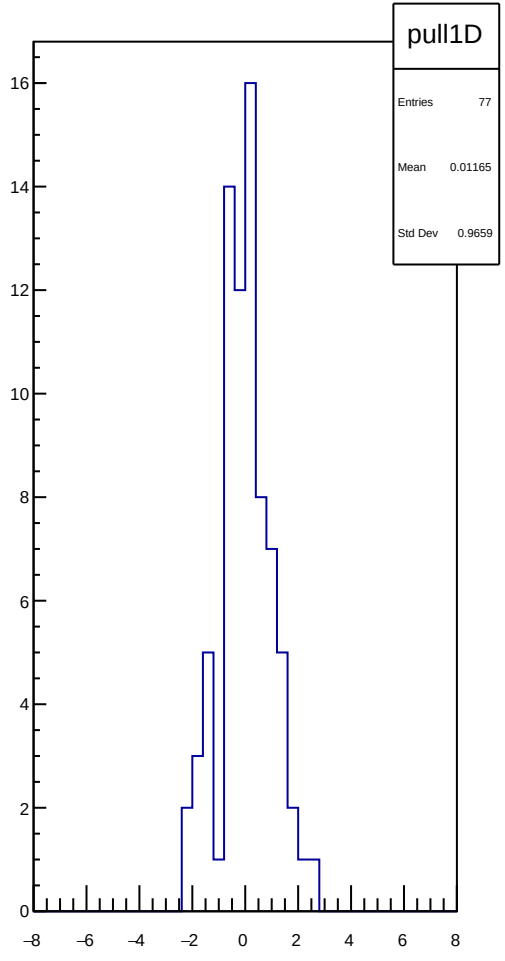

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 9953 / 76
p0 137.5 ± 0.1124
160
150
140
130
120
110
100
90

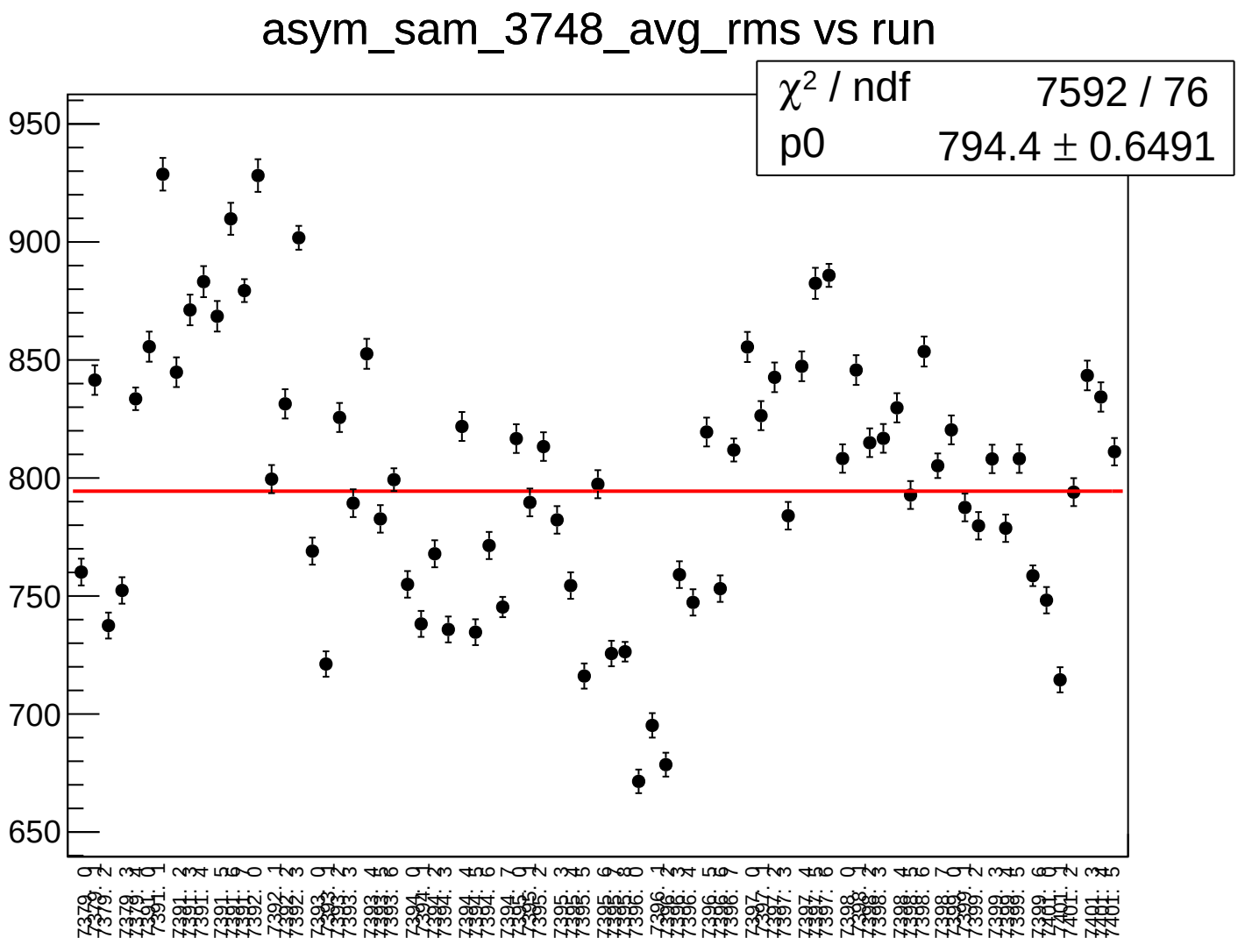

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 73.49 / 76
p0 −288.2 ± 903.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 77
Mean −232.1
Std Dev 275.2
2
1
0
−1
−2

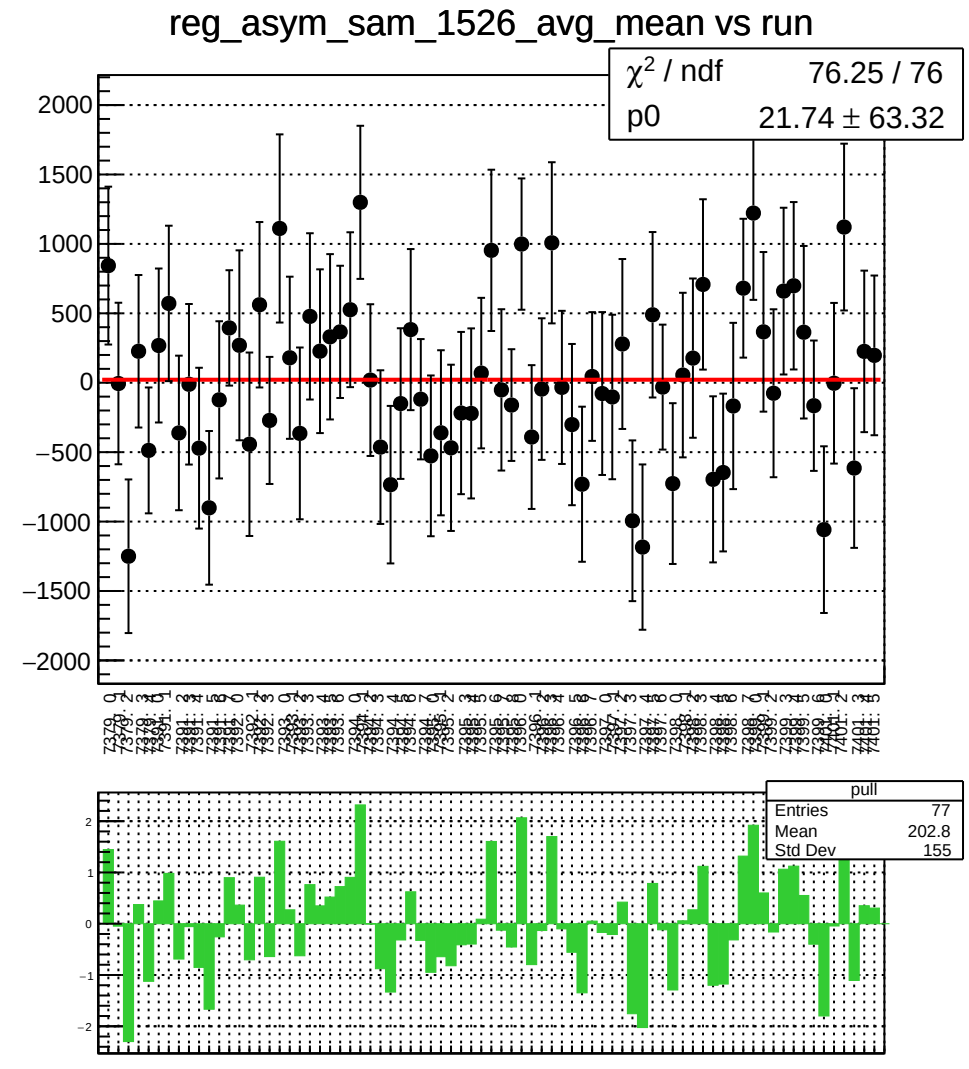

pull1D
Entries 77
Mean −0.01369
Std Dev 0.9769
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

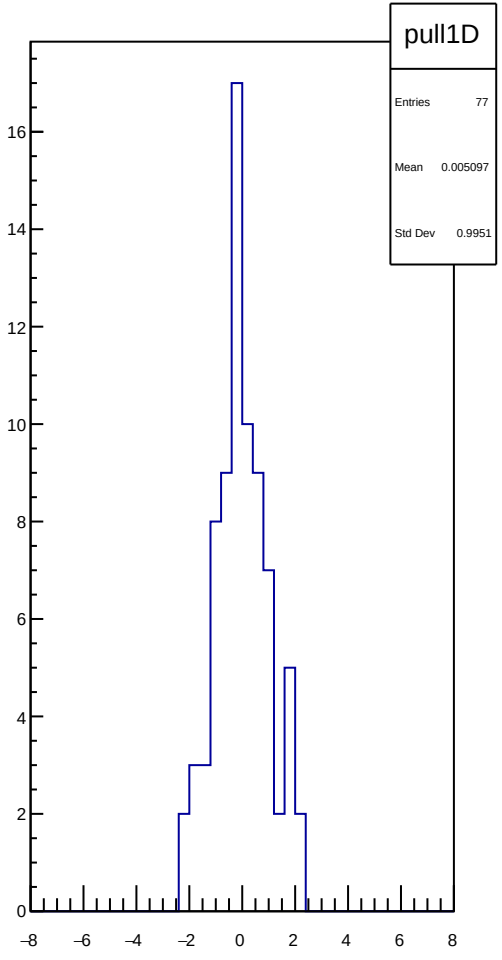

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 7821 / 76
p0 782 ± 0.6391
950
900
850
800
750
700
650

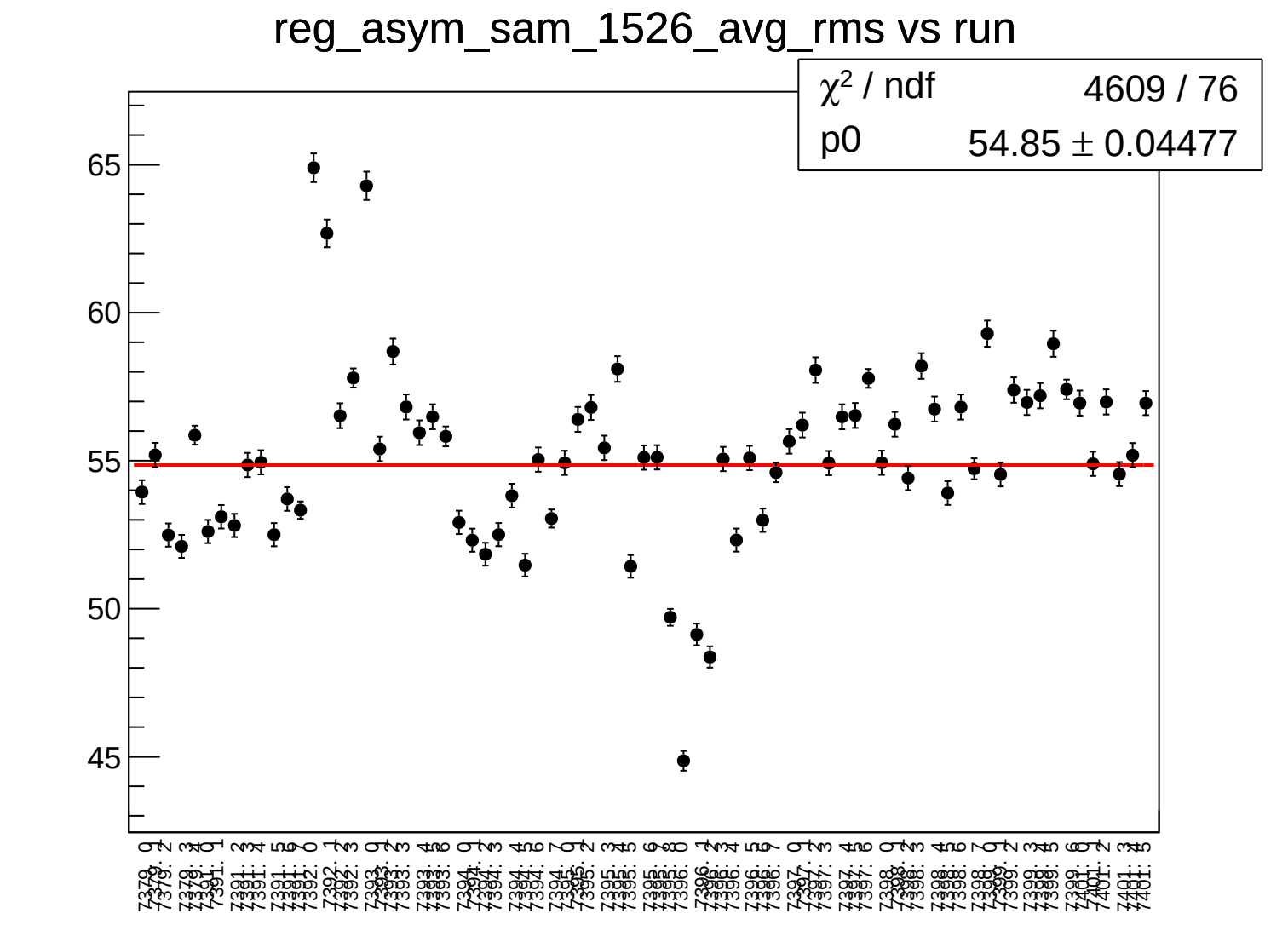

asym_sam_3748_avg_mean vs run
χ² / ndf 71.85 / 76
p0 338.4 ± 918
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 77
Mean −254.7
Std Dev 298
2
1
0
−1
−2

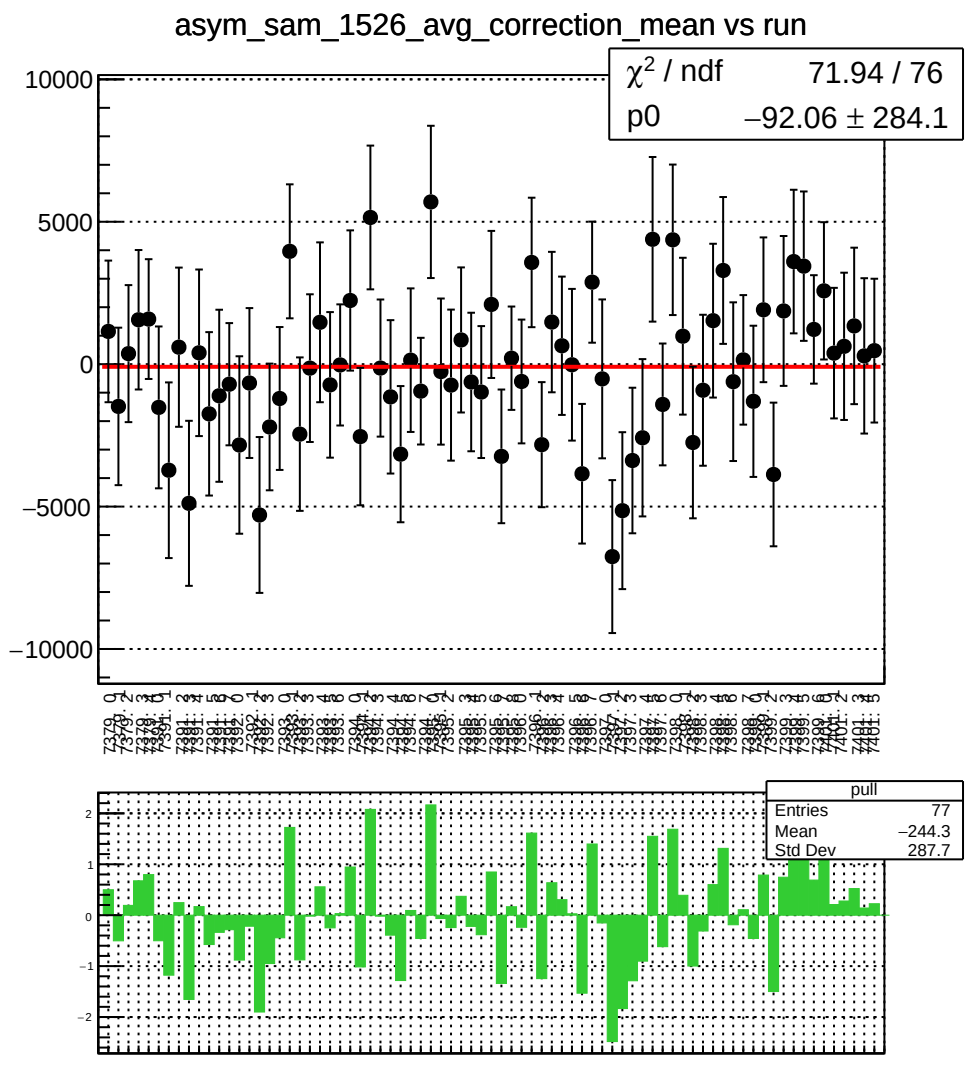

pull1D
Entries 77
Mean 0.01165
Std Dev 0.9659
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

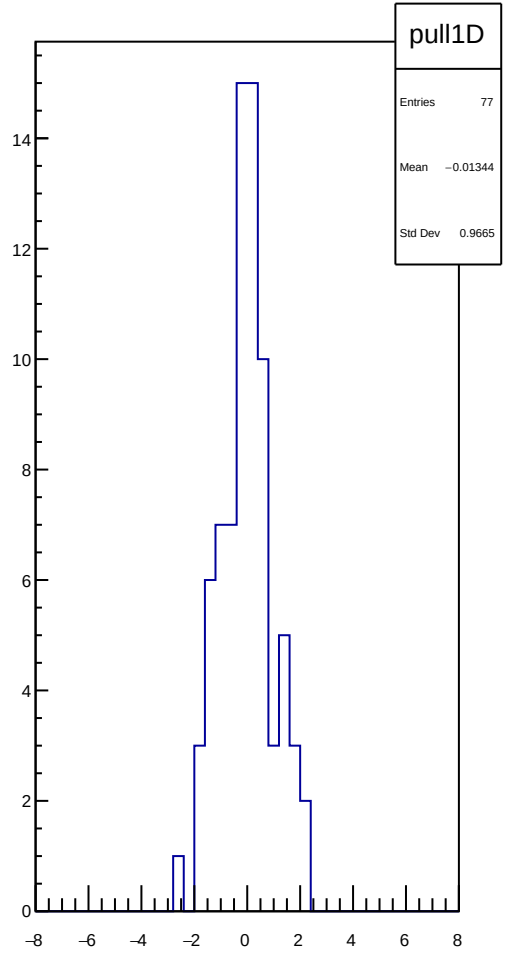

asym_sam_3748_avg_rms vs run
χ² / ndf 7592 / 76
p0 794.4 ± 0.6491
950
900
850
800
750
700
650

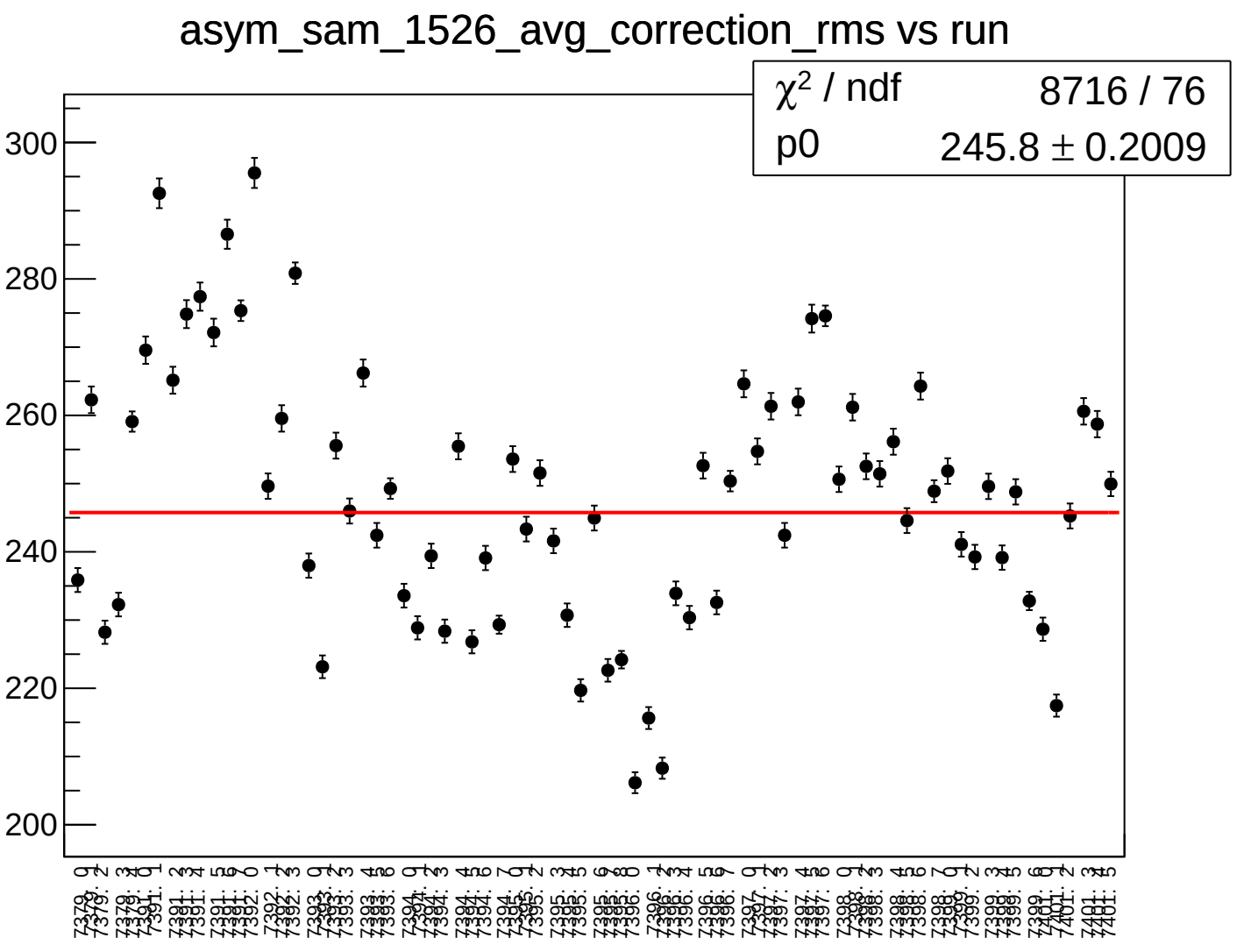

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 76.25 / 76
p0 21.74 ± 63.32
pull
Entries 77
Mean 202.8
Std Dev 155

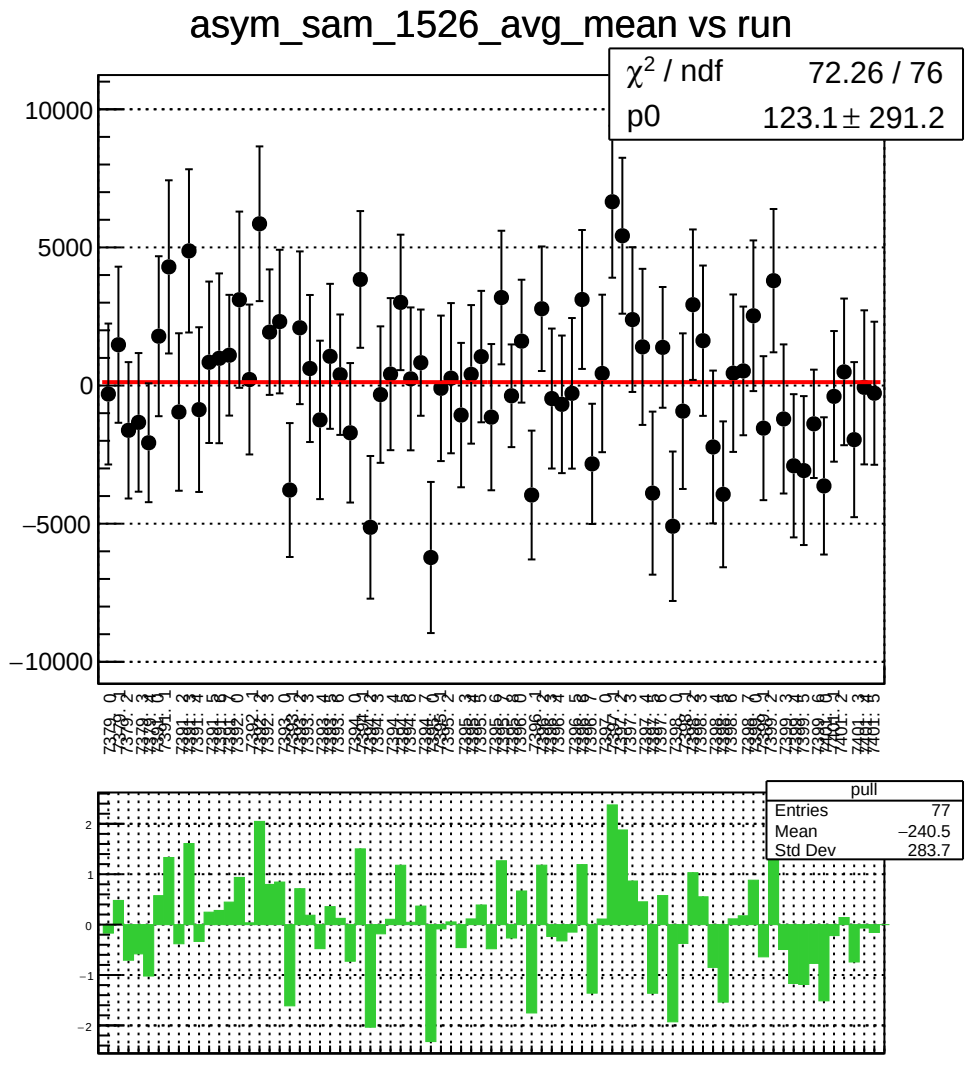

pull1D
Entries 77
Mean 0.005097
Std Dev 0.9951

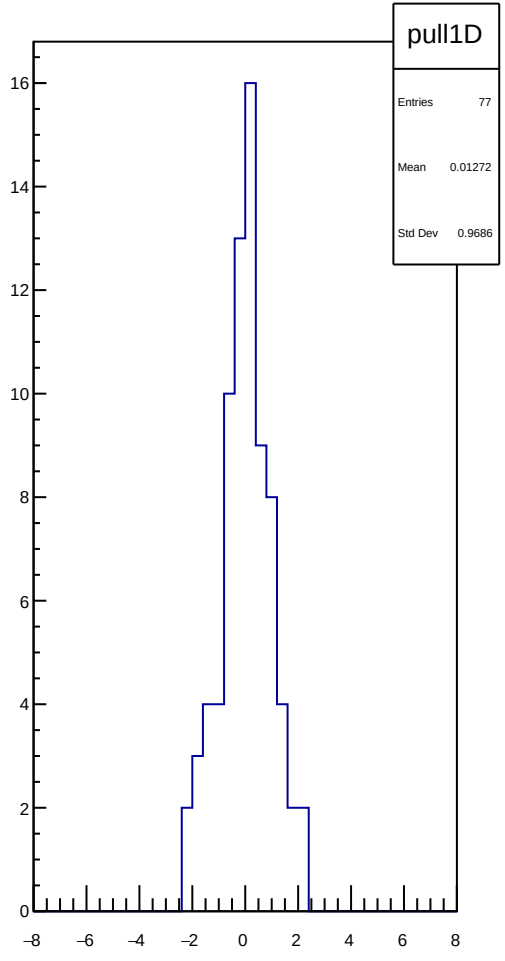

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 4609 / 76
p0 54.85 ± 0.04477
65
60
55
50
45

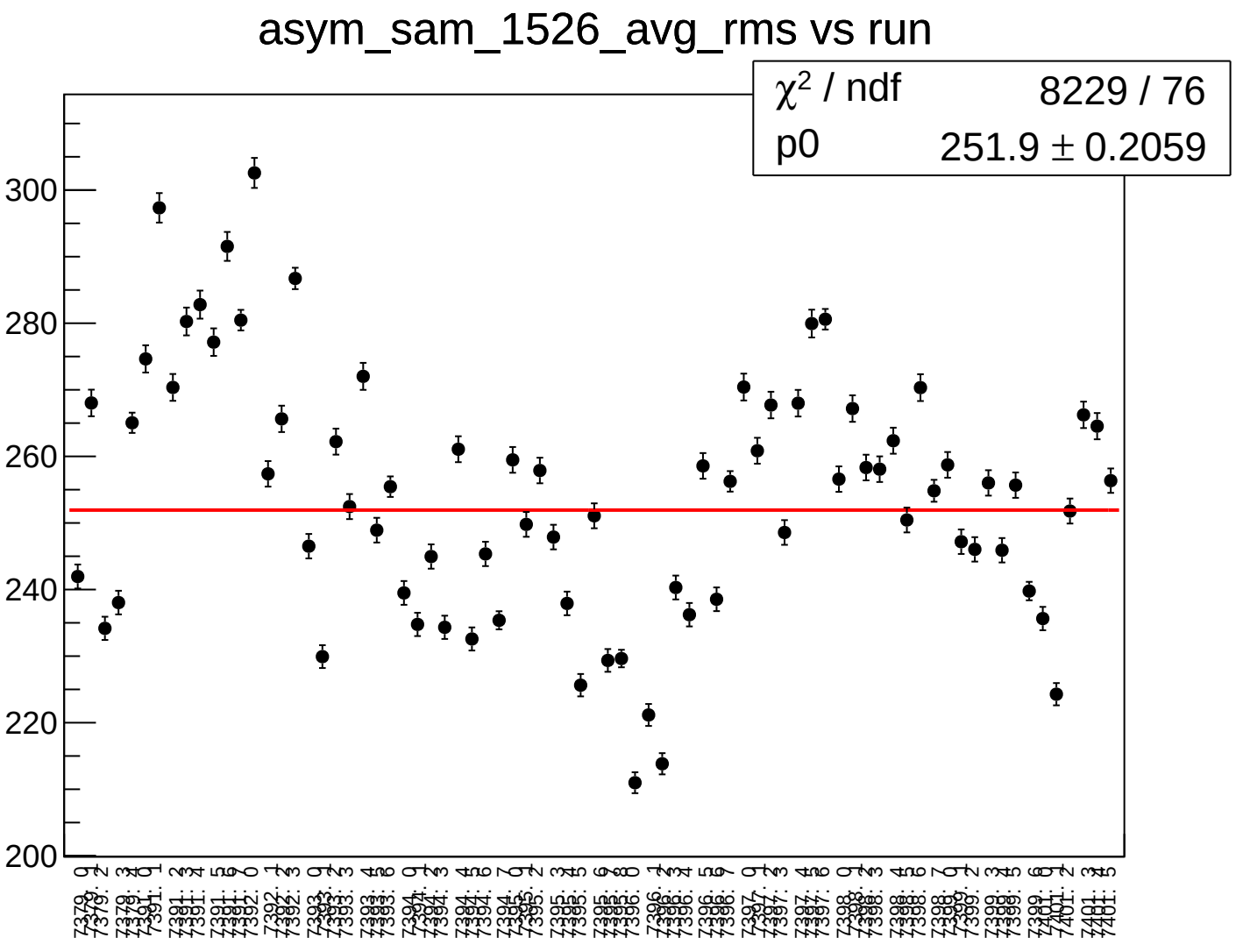

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 71.94 / 76
p0 −92.06 ± 284.1
10000
5000
0
−5000
−10000
pull
Entries 77
Mean −244.3
Std Dev 287.7
2
1
0
−1
−2

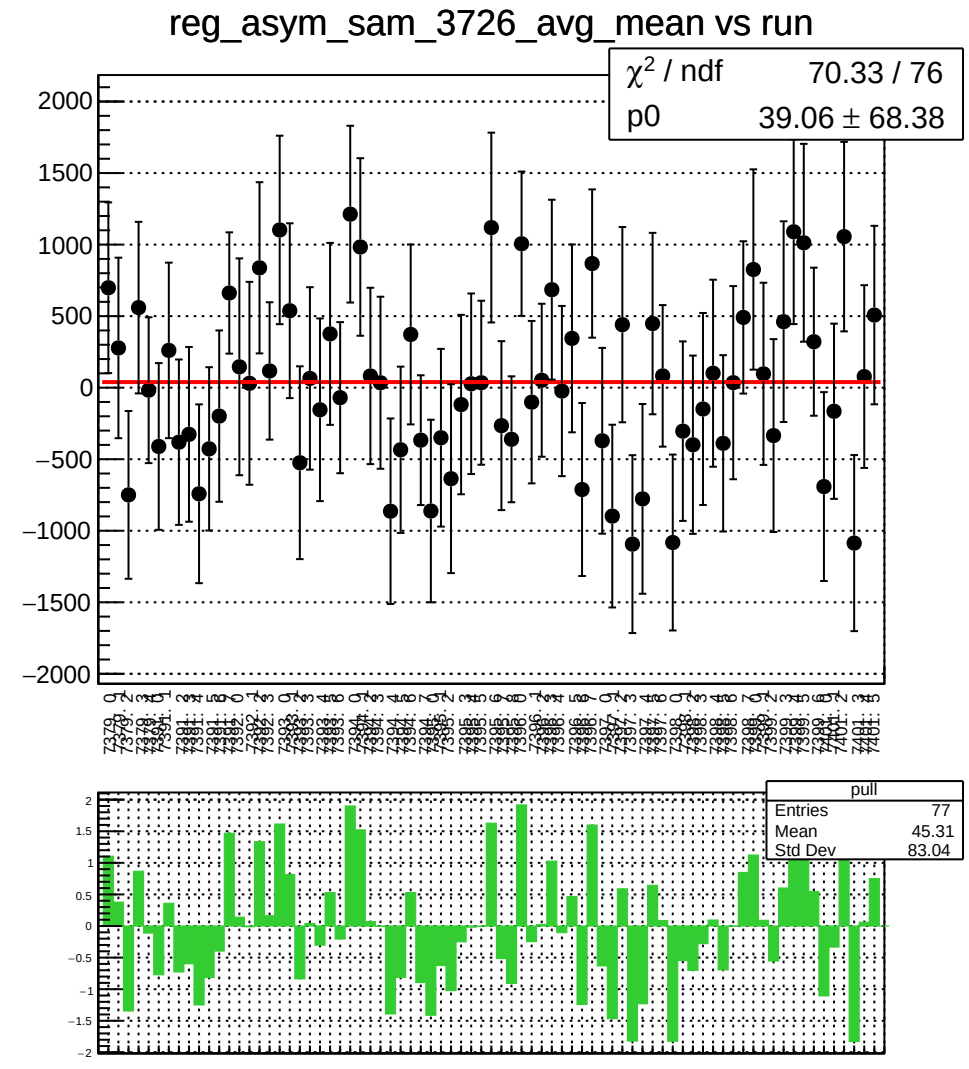

pull1D
Entries 77
Mean −0.01344
Std Dev 0.9665
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

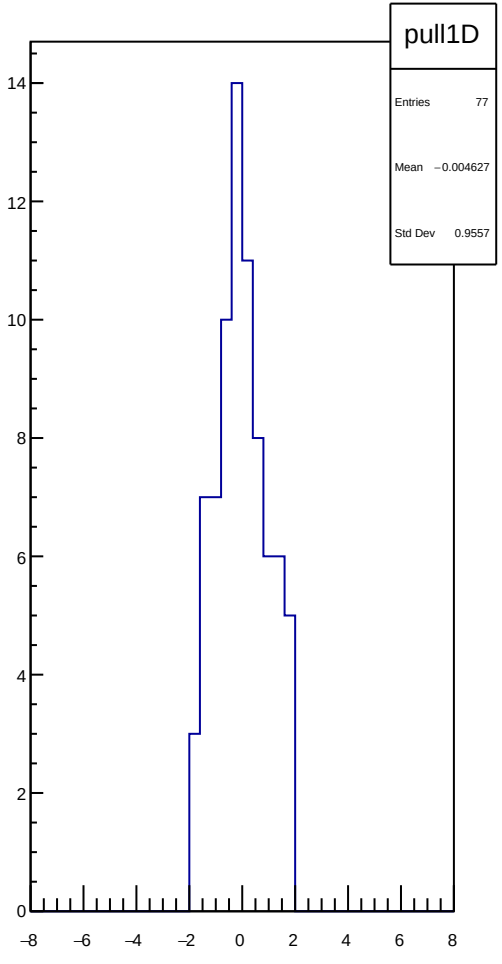

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 8716 / 76
p0 245.8 ± 0.2009
300
280
260
240
220
200

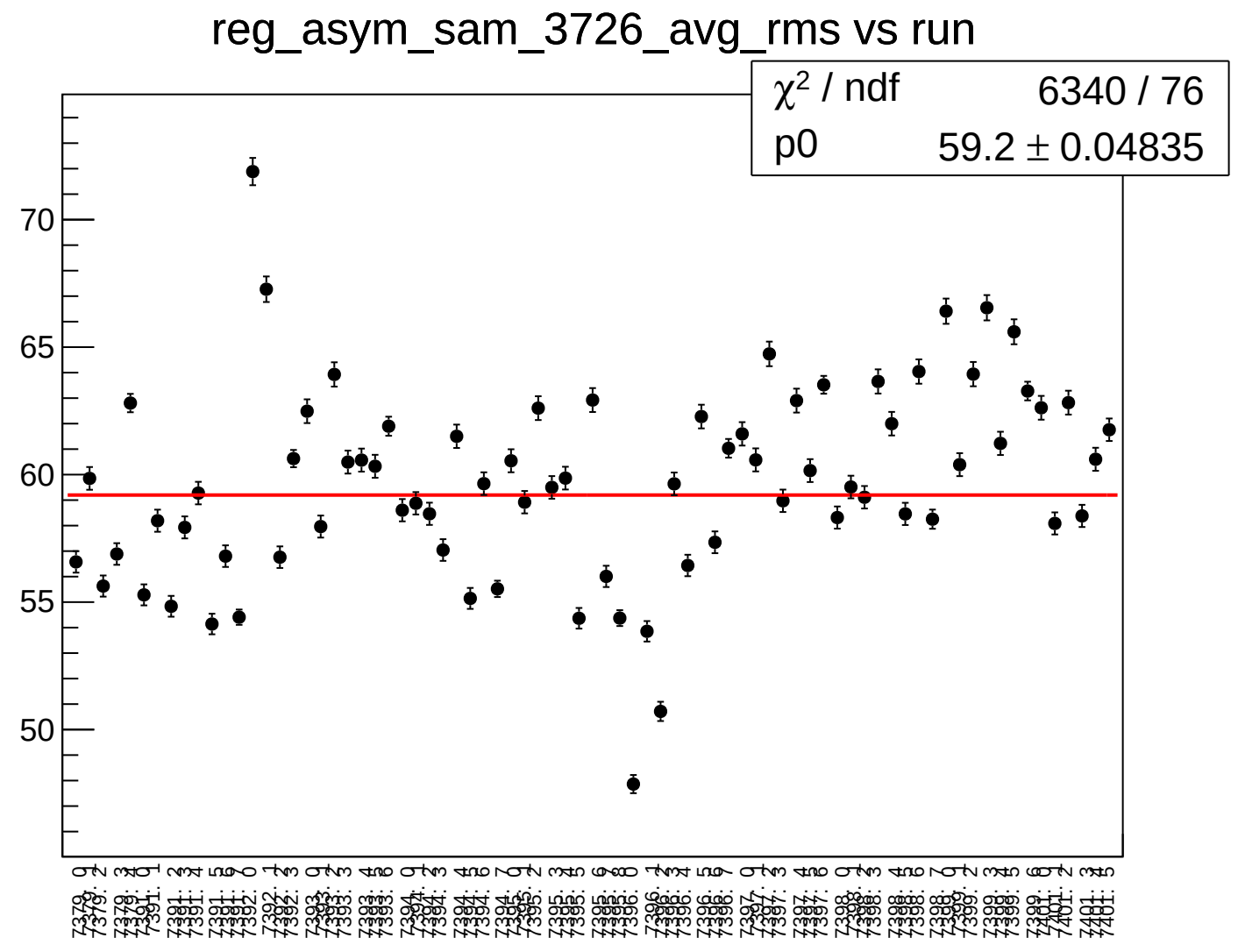

asym_sam_1526_avg_mean vs run
χ² / ndf 72.26 / 76
p0 123.1 ± 291.2
10000
5000
0
−5000
−10000
pull
Entries 77
Mean −240.5
Std Dev 283.7
2
1
0
−1
−2

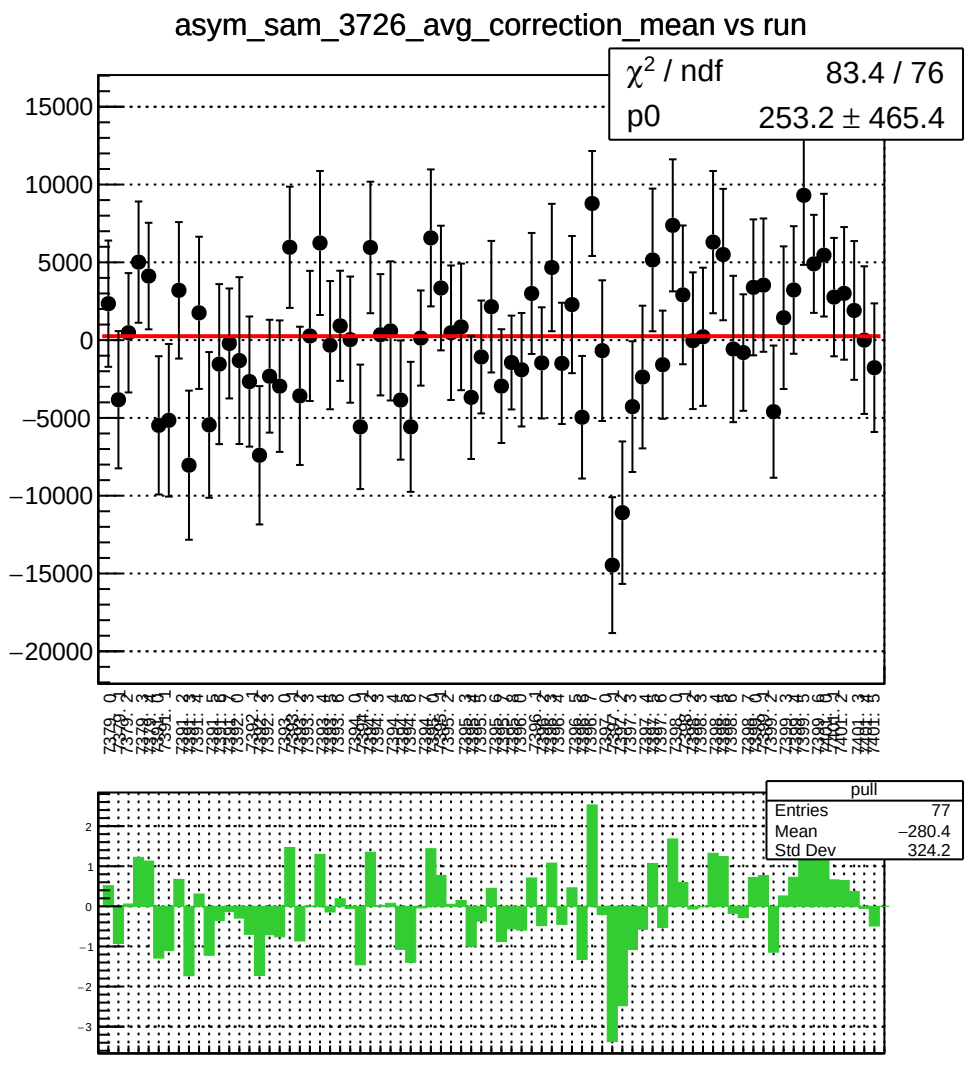

pull1D
Entries 77
Mean 0.01272
Std Dev 0.9686
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

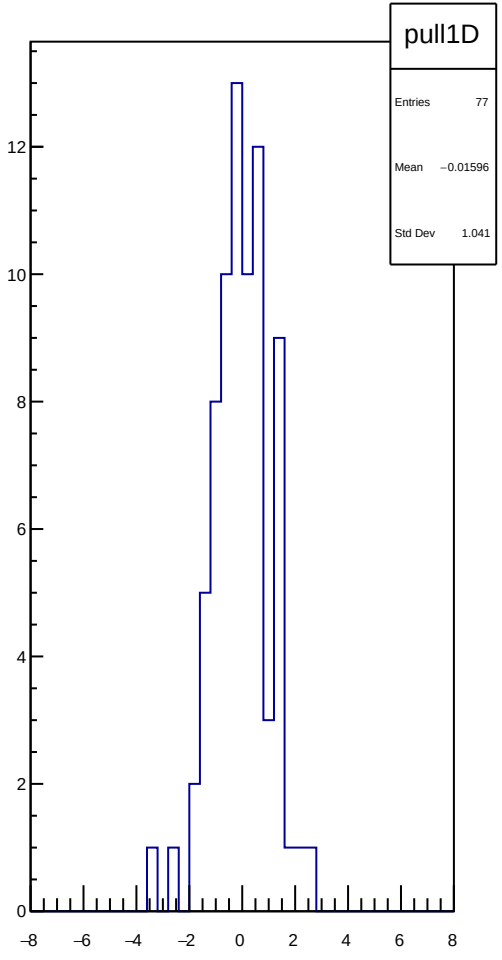

asym_sam_1526_avg_rms vs run
χ² / ndf 8229 / 76
p0 251.9 ± 0.2059
300
280
260
240
220
200

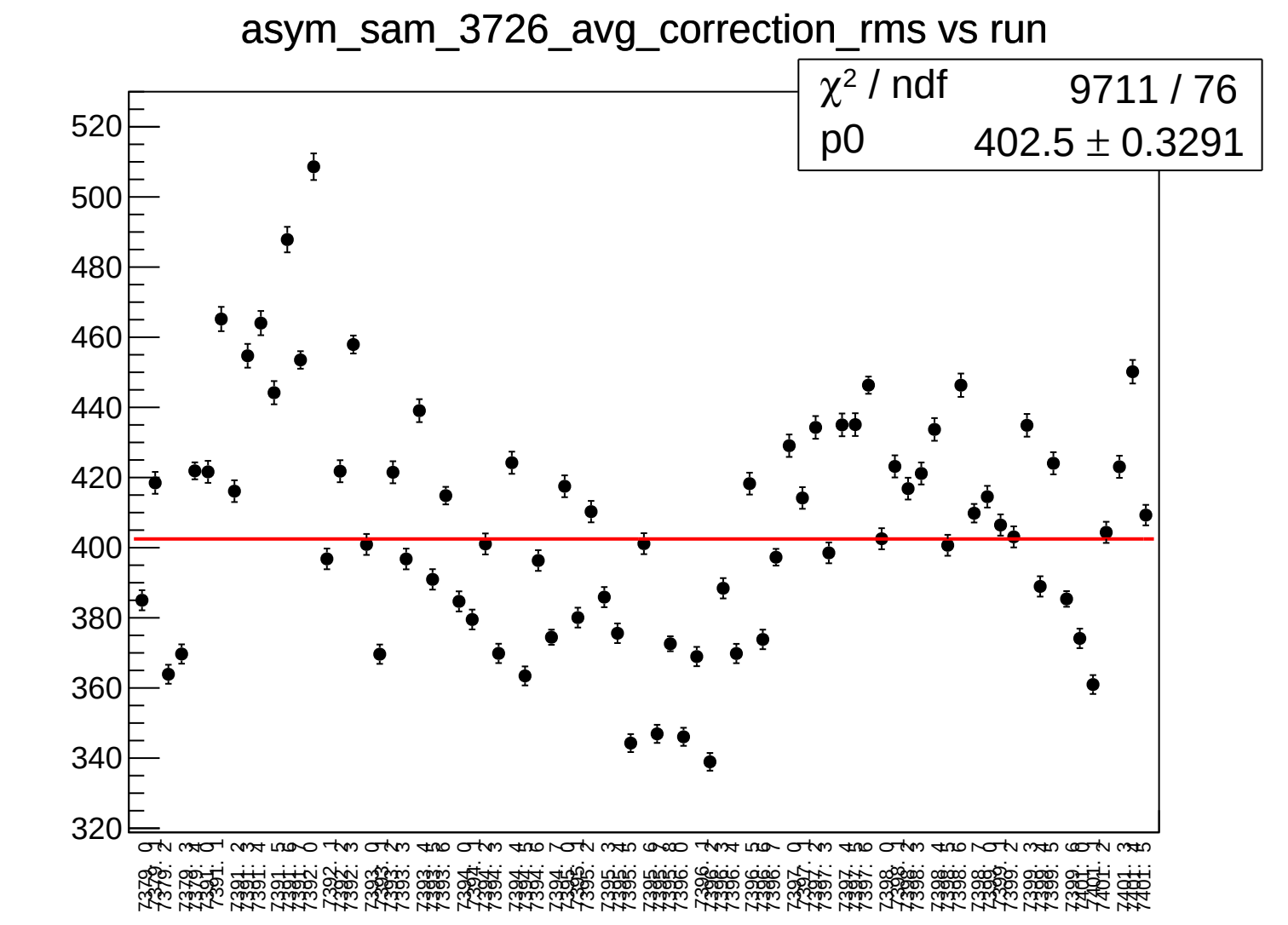

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 70.33 / 76
p0 39.06 ± 68.38
pull
Entries 77
Mean 45.31
Std Dev 83.04

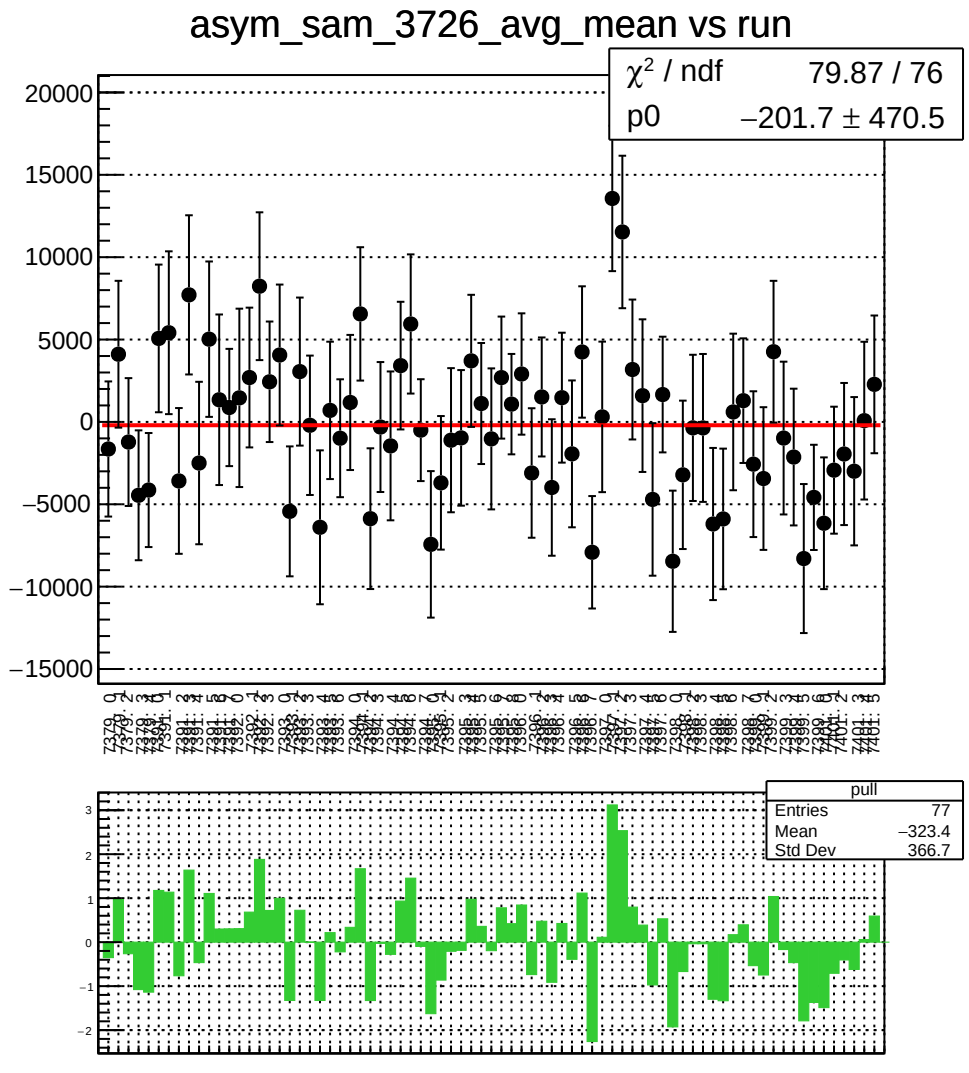

pull1D
Entries 77
Mean −0.004627
Std Dev 0.9557

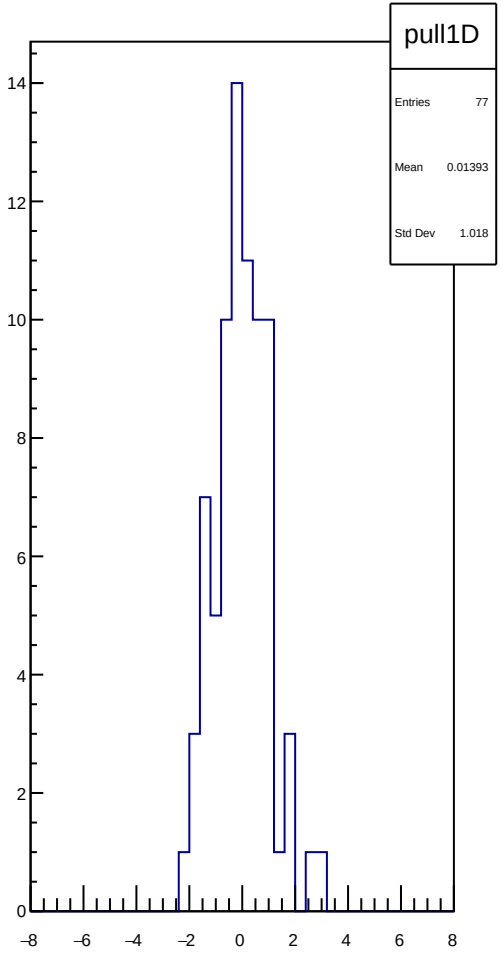

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 6340 / 76
p0 59.2 ± 0.04835
70
65
60
55
50

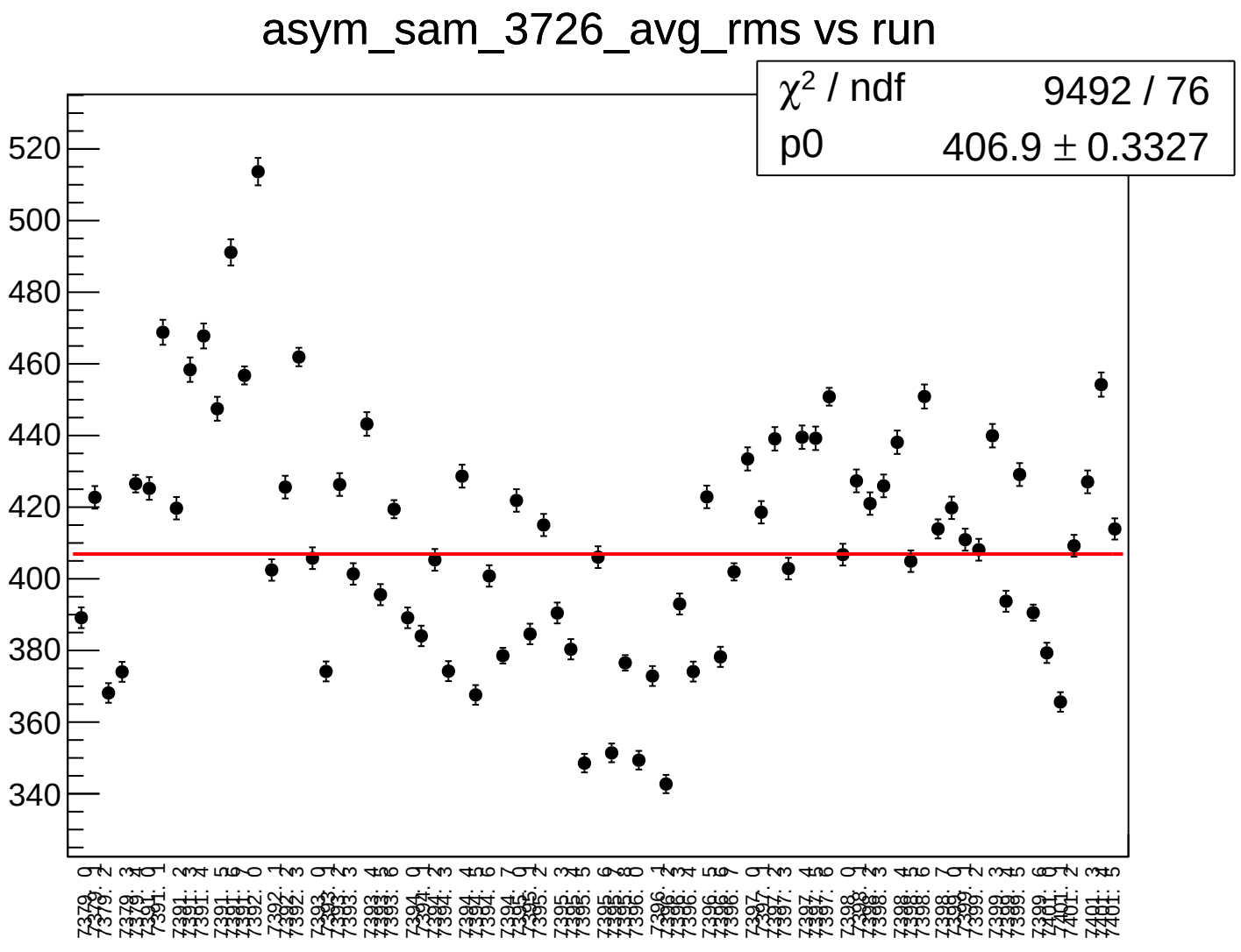

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 83.4 / 76
p0 253.2 ± 465.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 77
Mean −280.4
Std Dev 324.2
2
1
0
−1
−2
−3

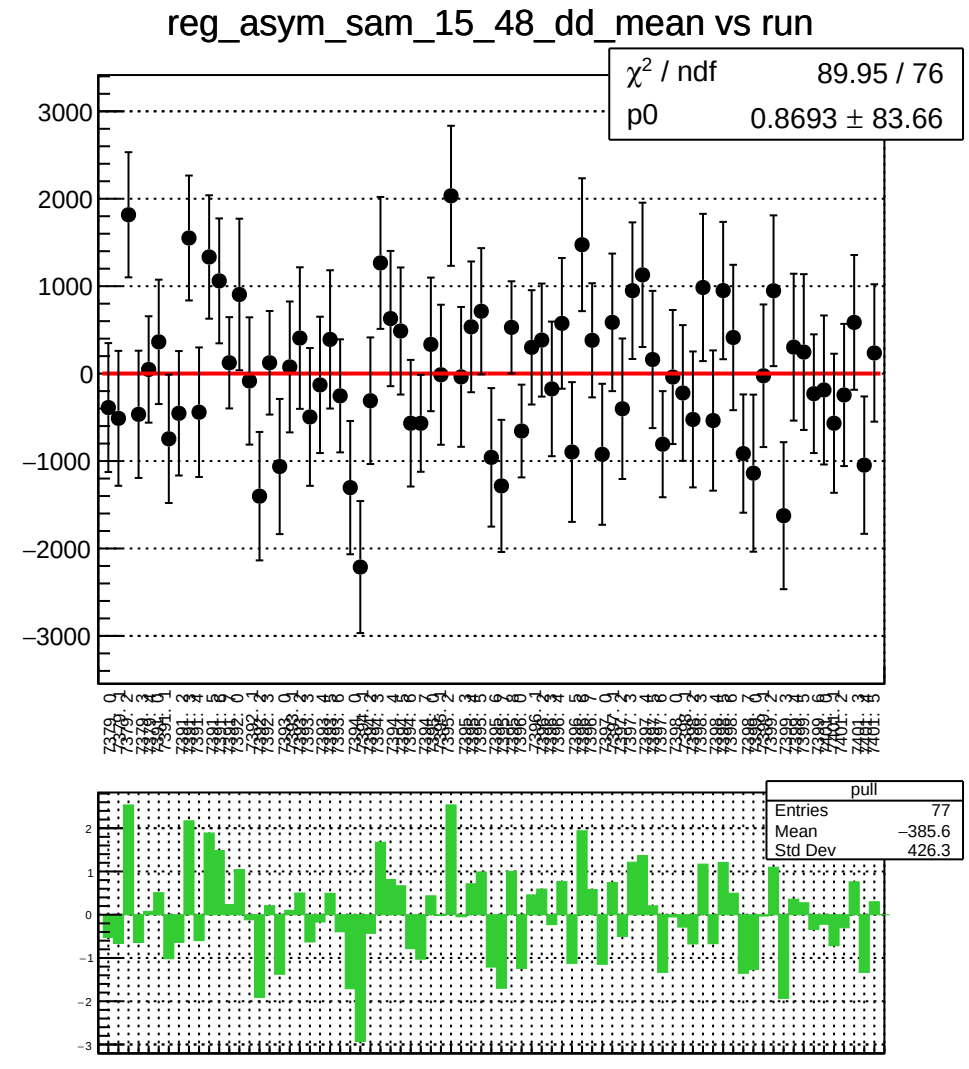

pull1D
Entries 77
Mean −0.01596
Std Dev 1.041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

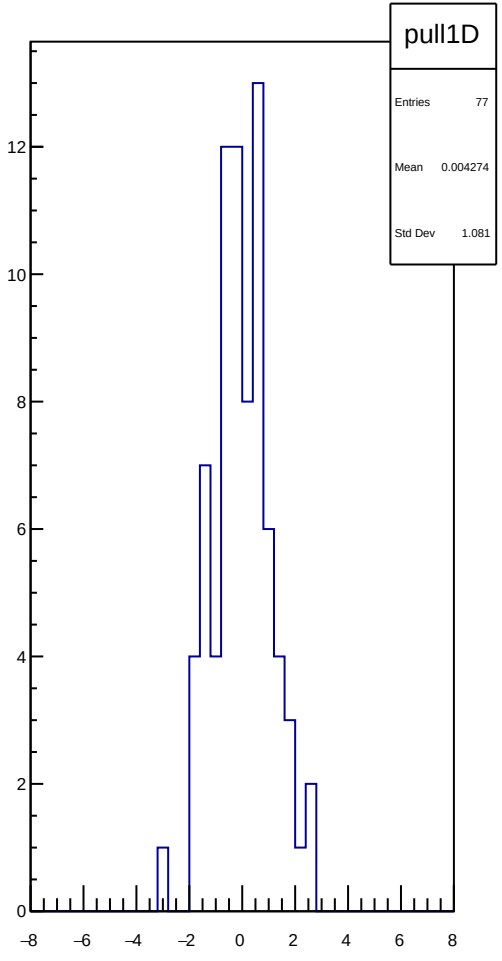

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 9711 / 76
p0 402.5 ± 0.3291
520
500
480
460
440
420
400
380
360
340
320

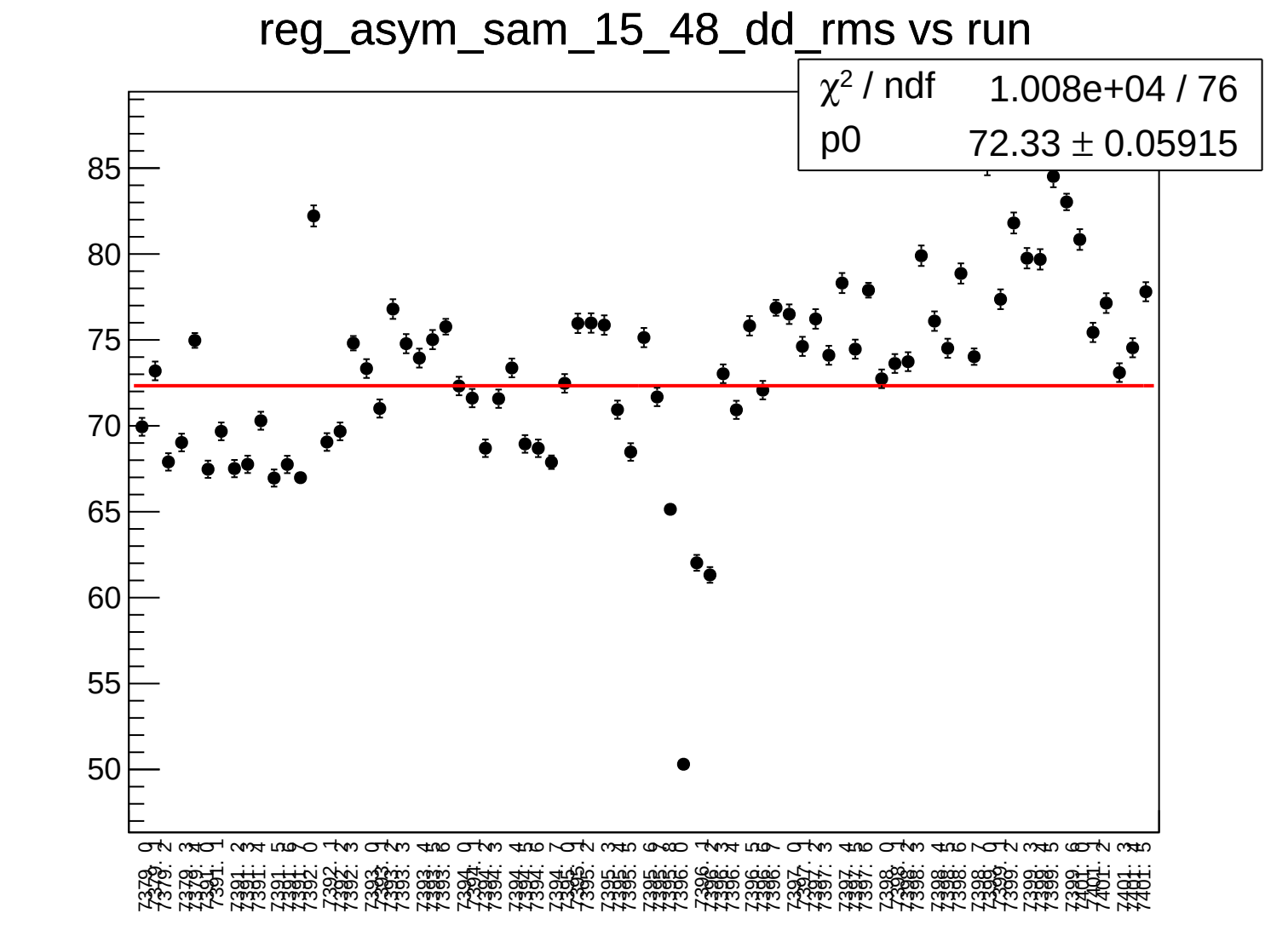

asym_sam_3726_avg_mean vs run
χ² / ndf 79.87 / 76
p0 −201.7 ± 470.5
pull
Entries 77
Mean −323.4
Std Dev 366.7

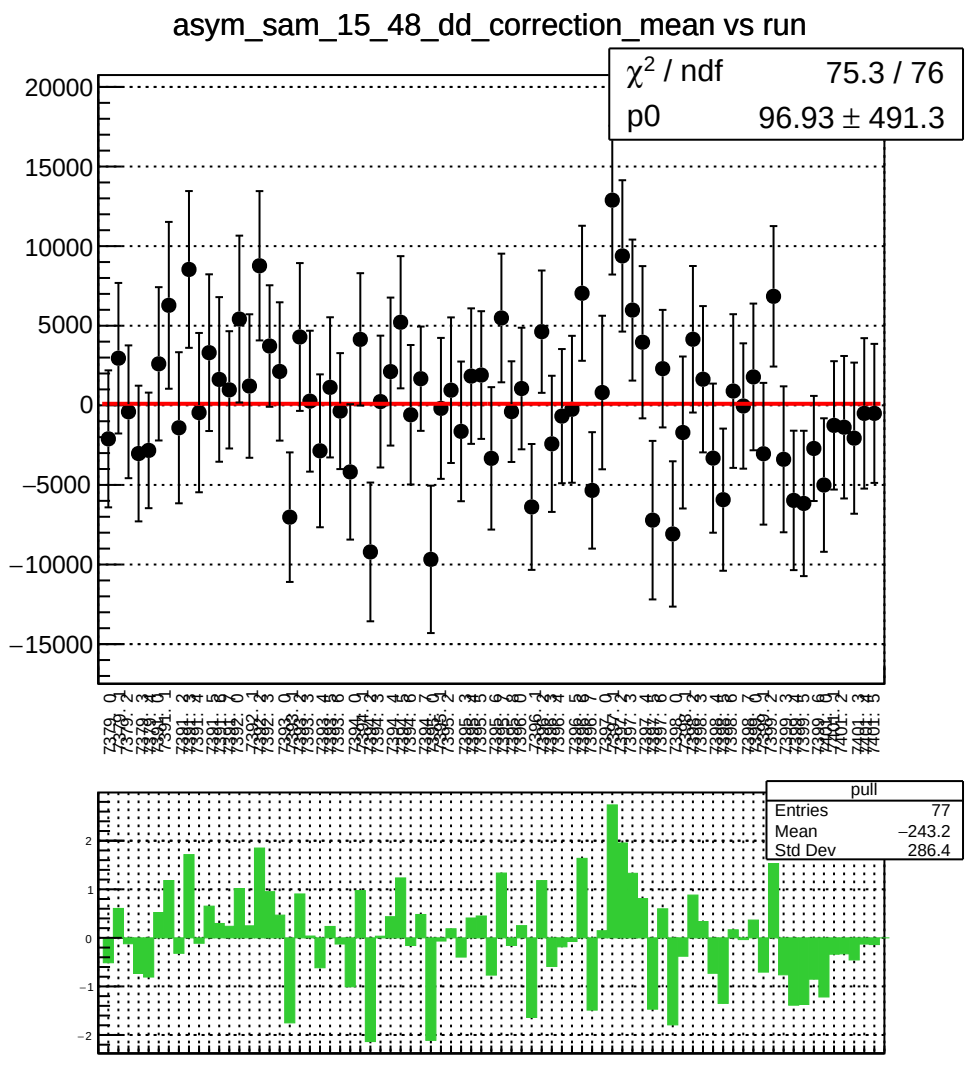

pull1D
Entries 77
Mean 0.01393
Std Dev 1.018

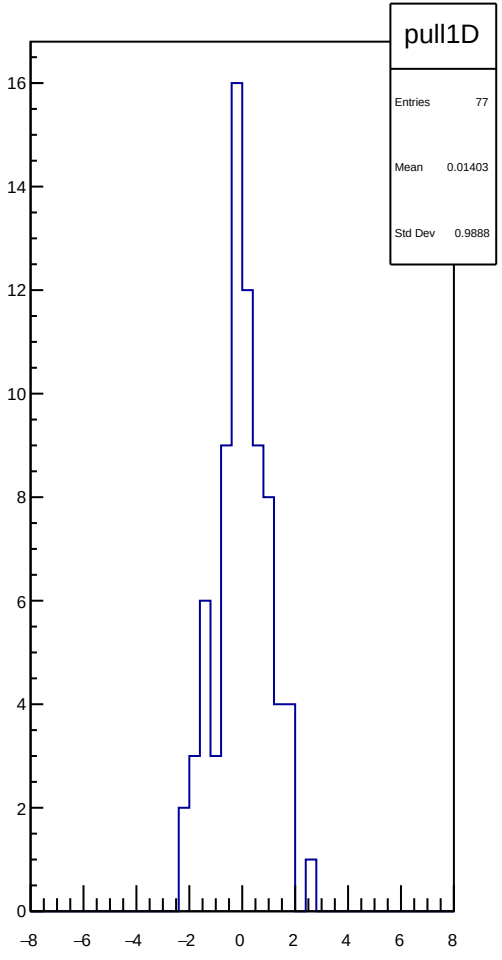

asym_sam_3726_avg_rms vs run
χ² / ndf 9492 / 76
p0 406.9 ± 0.3327
520
500
480
460
440
420
400
380
360
340

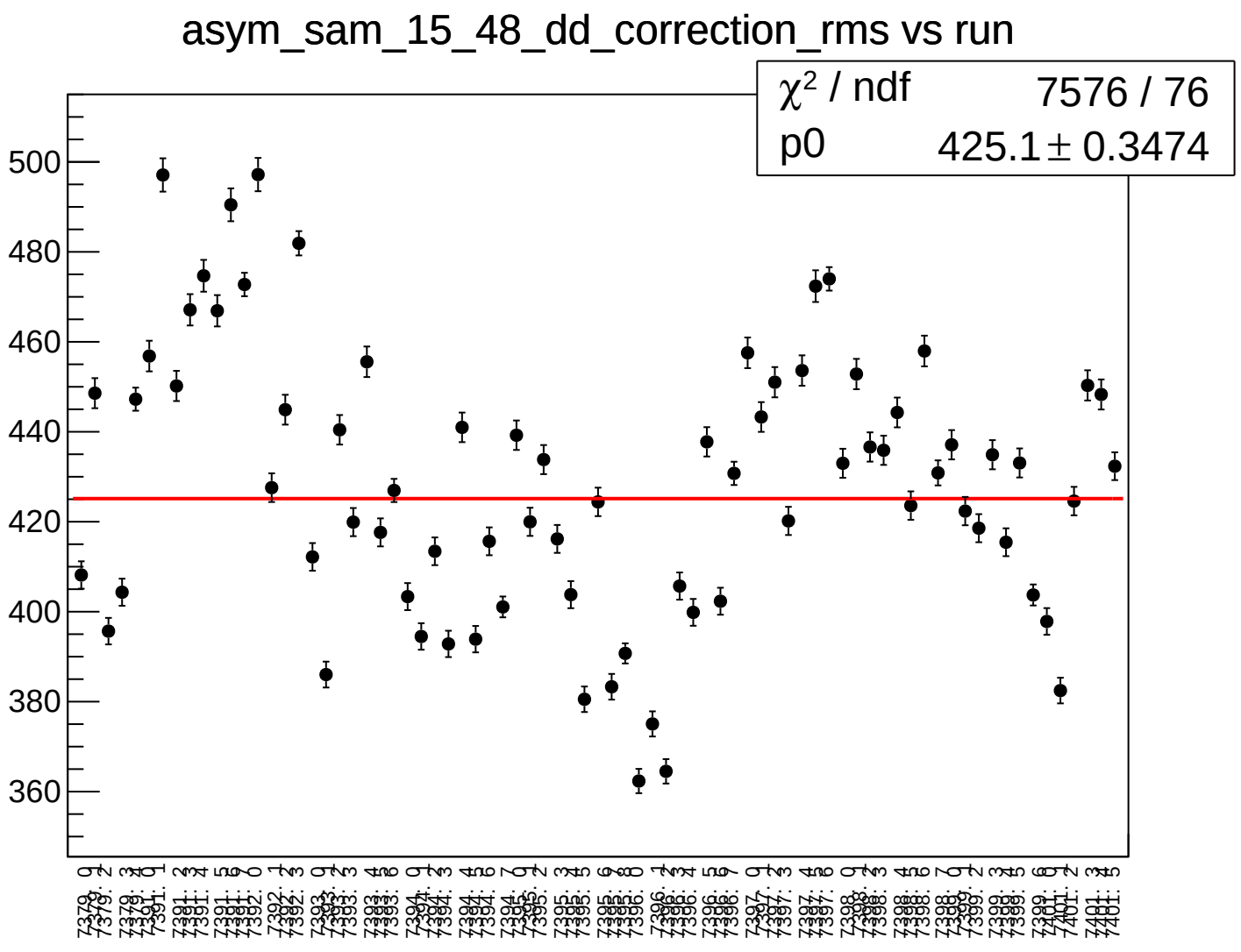

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 89.95 / 76
p0 0.8693 ± 83.66
pull
Entries 77
Mean −385.6
Std Dev 426.3

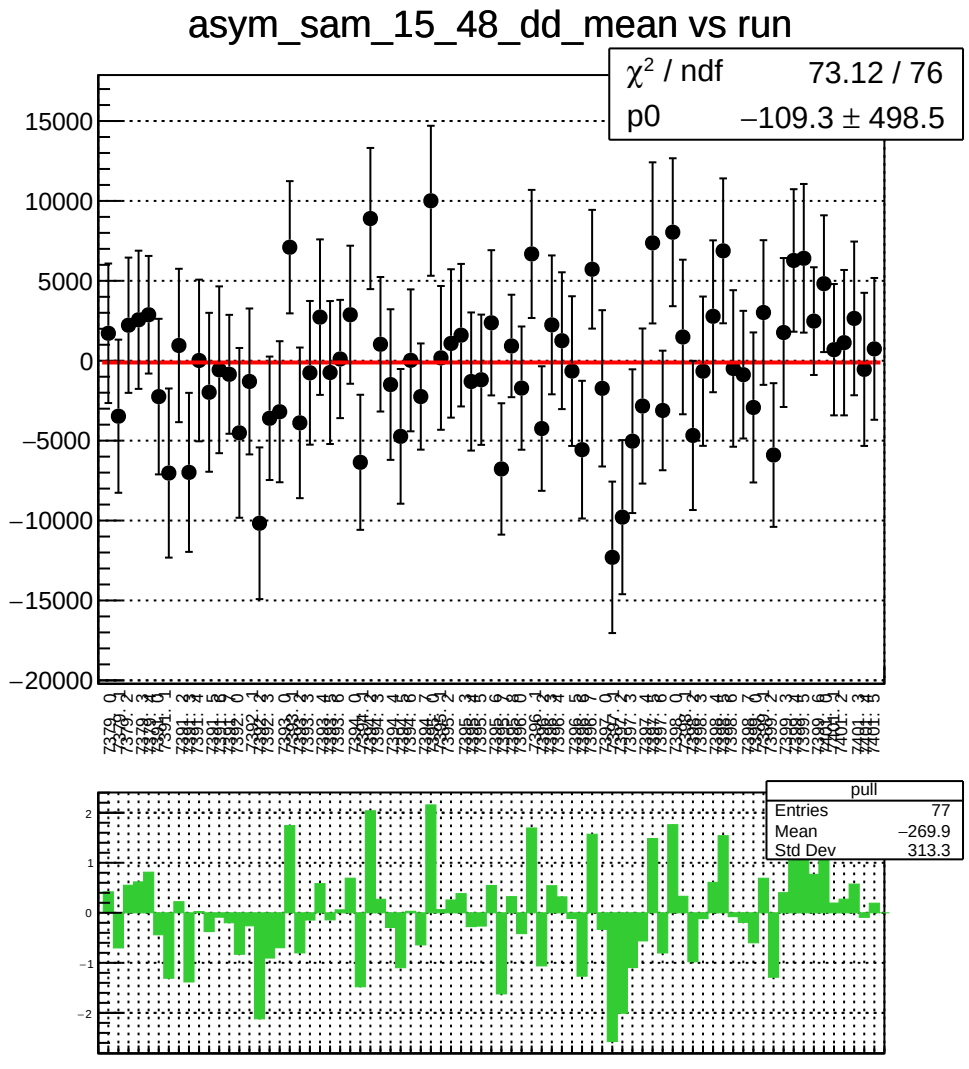

pull1D
Entries 77
Mean 0.004274
Std Dev 1.081

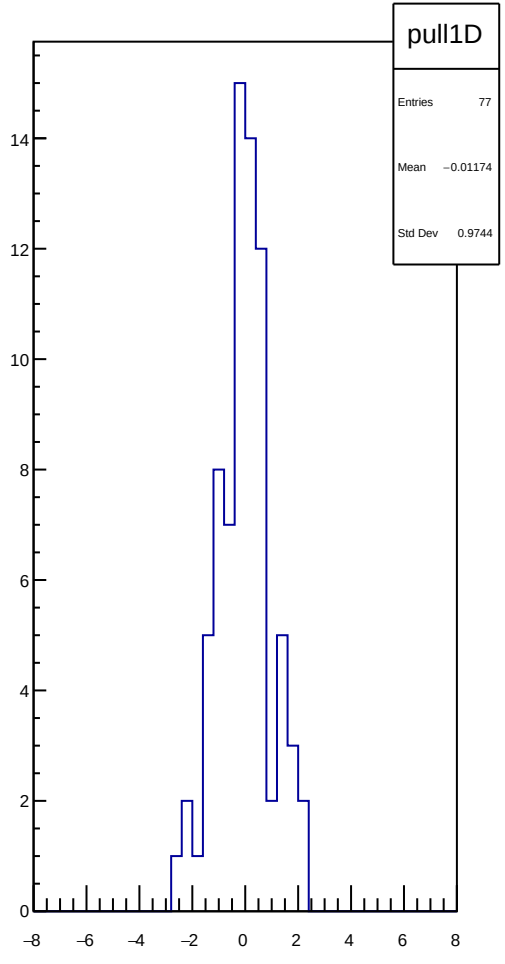

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.008e+04 / 76
p0 72.33 ± 0.05915
85
80
75
70
65
60
55
50

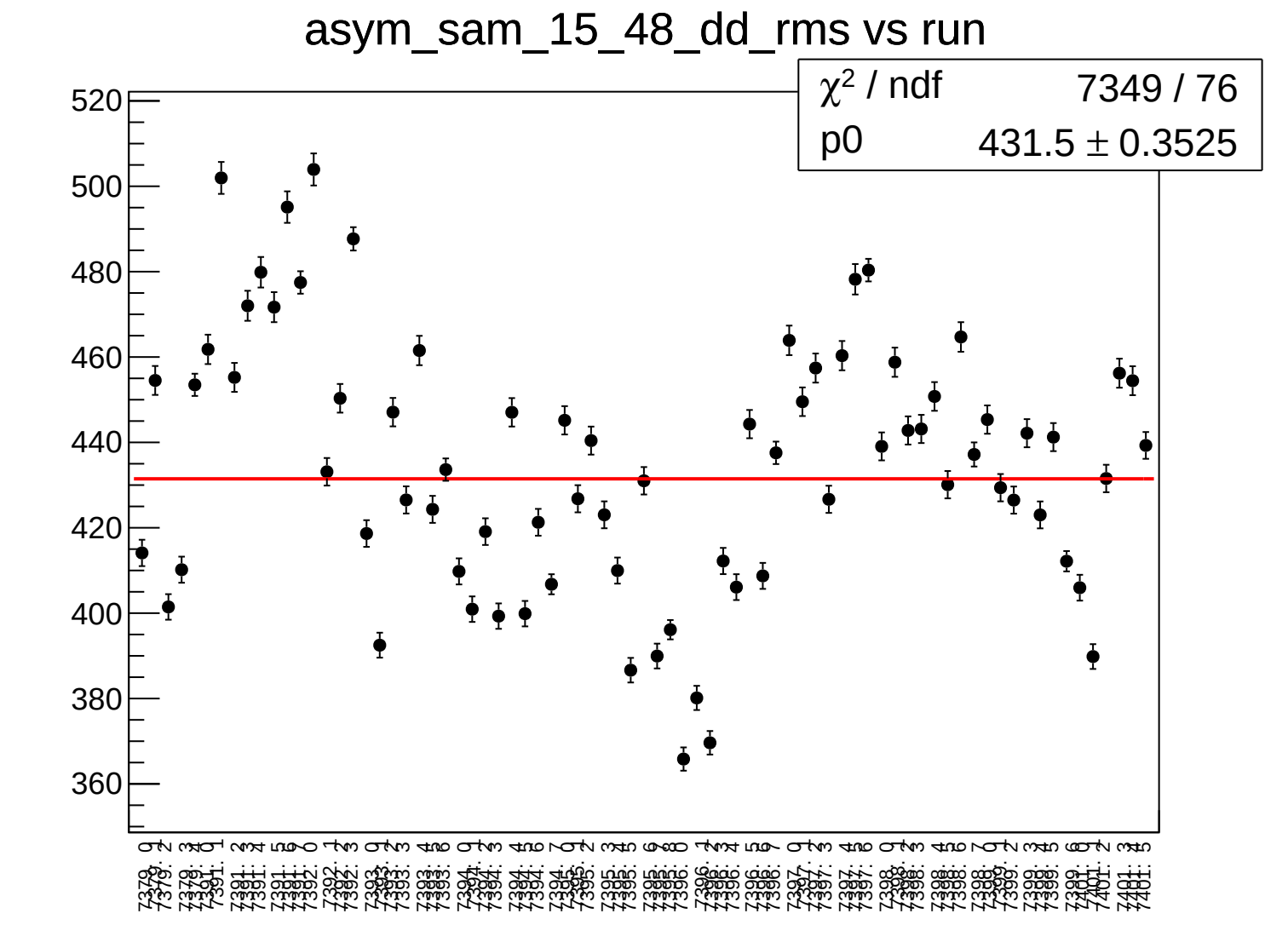

asym_sam_15_48_dd_correction_mean vs run
χ^2 / ndf 75.3 / 76
p0 96.93 ± 491.3
pull
Entries 77
Mean −243.2
Std Dev 286.4

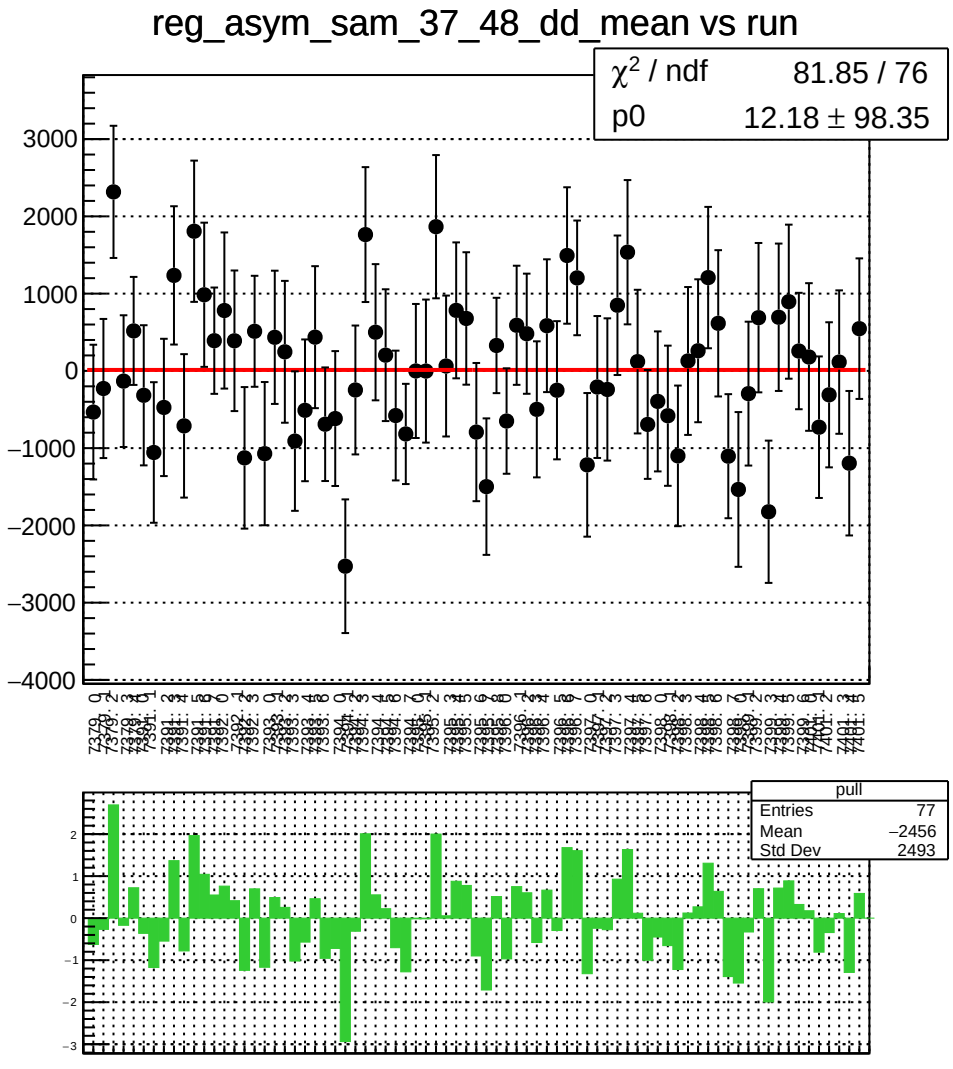

pull1D
Entries 77
Mean 0.01403
Std Dev 0.9888

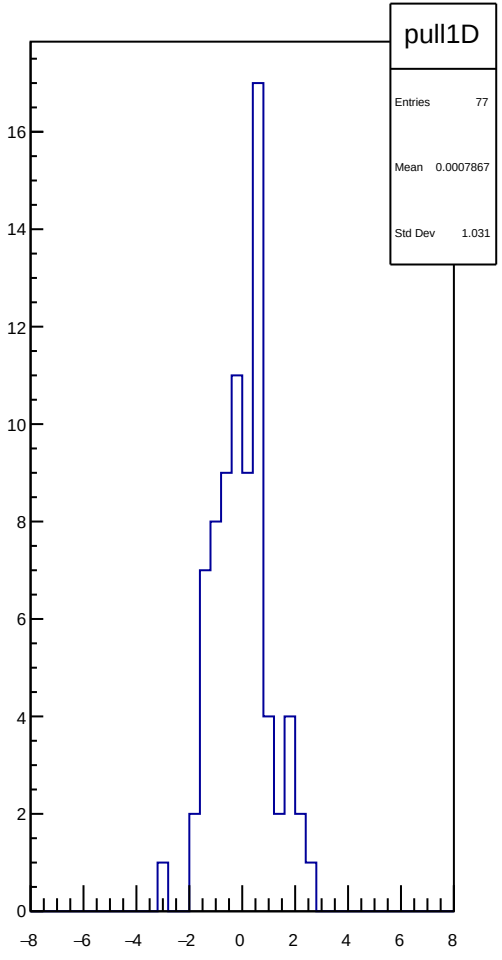

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 7576 / 76
p0 425.1 ± 0.3474
500
480
460
440
420
400
380
360

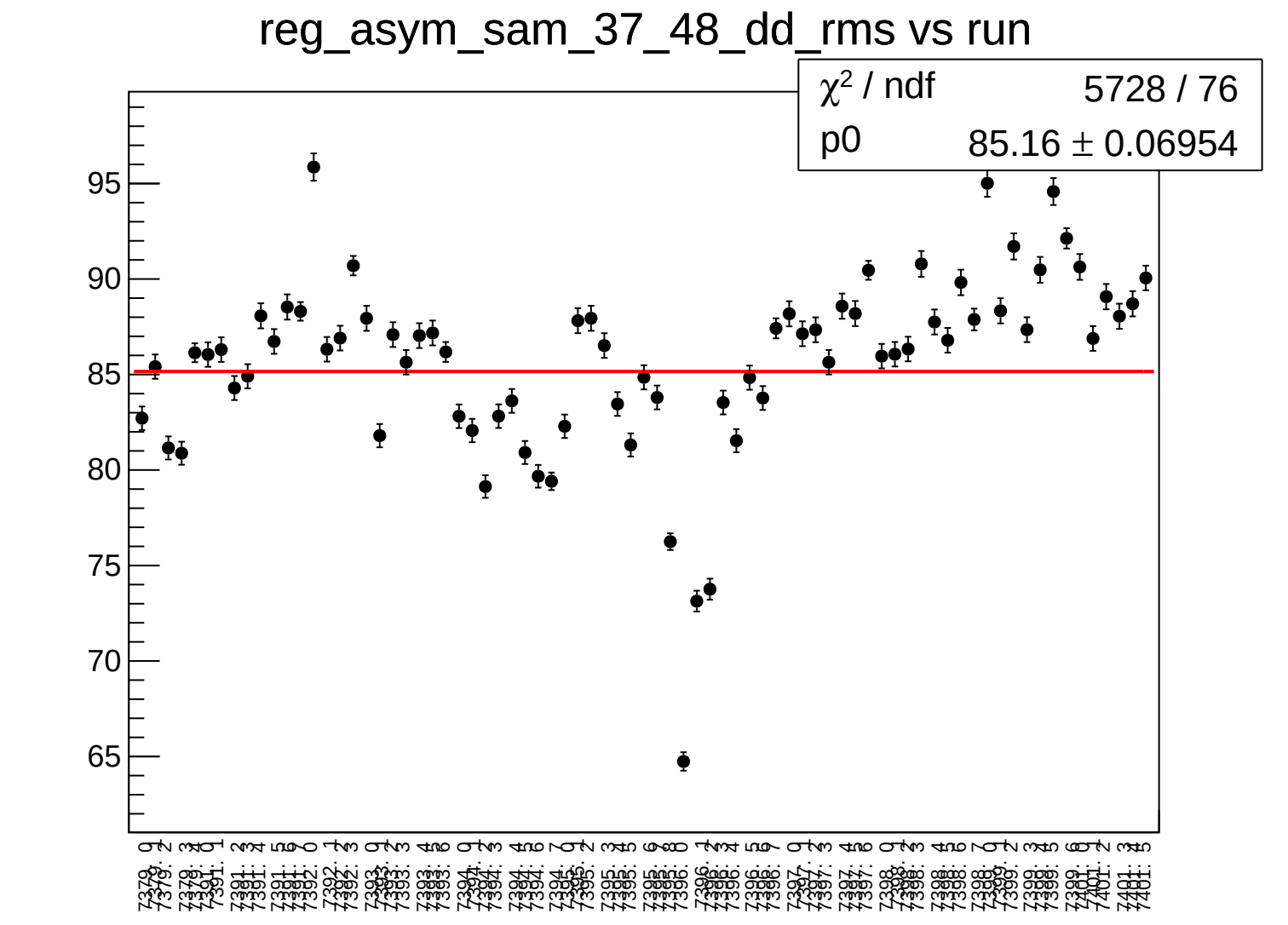

asym_sam_15_48_dd_mean vs run
χ² / ndf 73.12 / 76
p0 −109.3 ± 498.5
pull
Entries 77
Mean −269.9
Std Dev 313.3

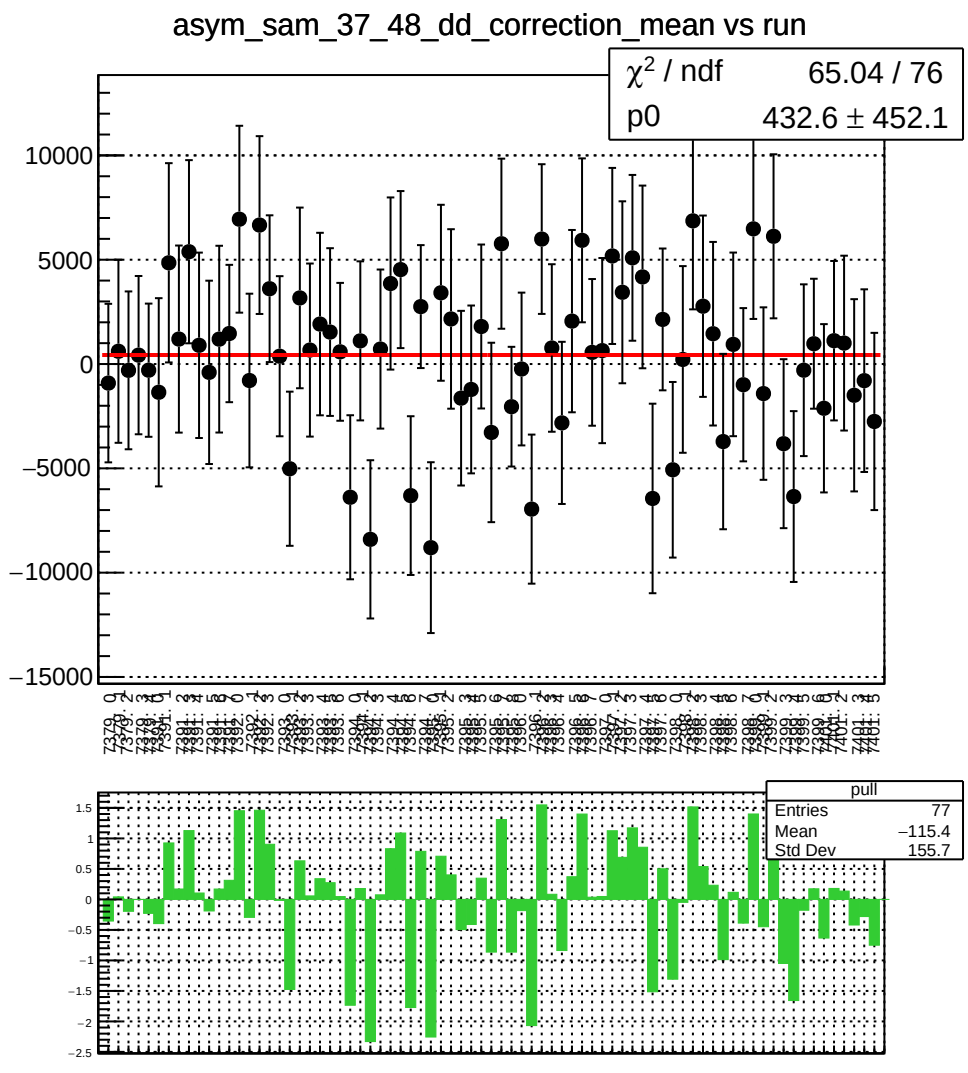

pull1D
Entries 77
Mean −0.01174
Std Dev 0.9744

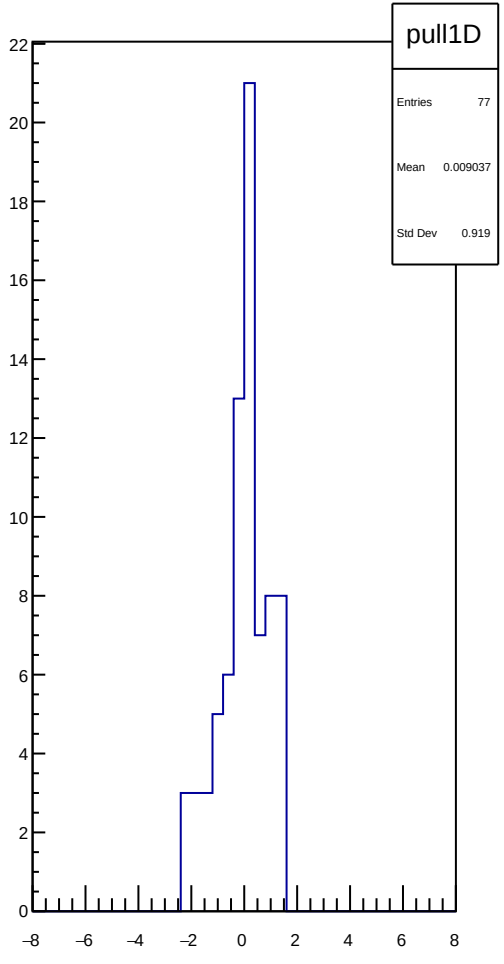

asym_sam_15_48_dd_rms vs run
χ² / ndf 7349 / 76
p0 431.5 ± 0.3525
520
500
480
460
440
420
400
380
360

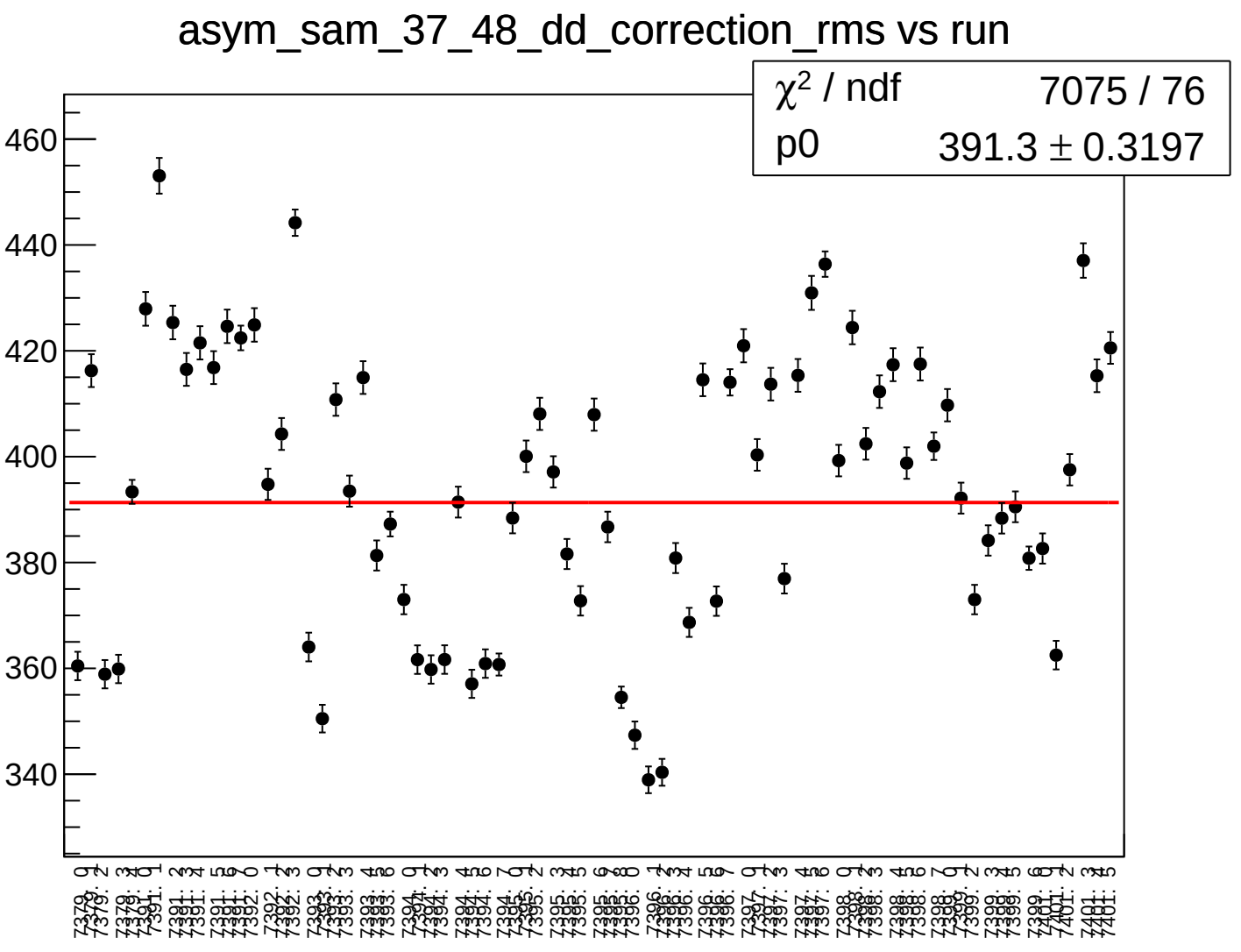

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 81.85 / 76
p0 12.18 ± 98.35
pull
Entries 77
Mean −2456
Std Dev 2493

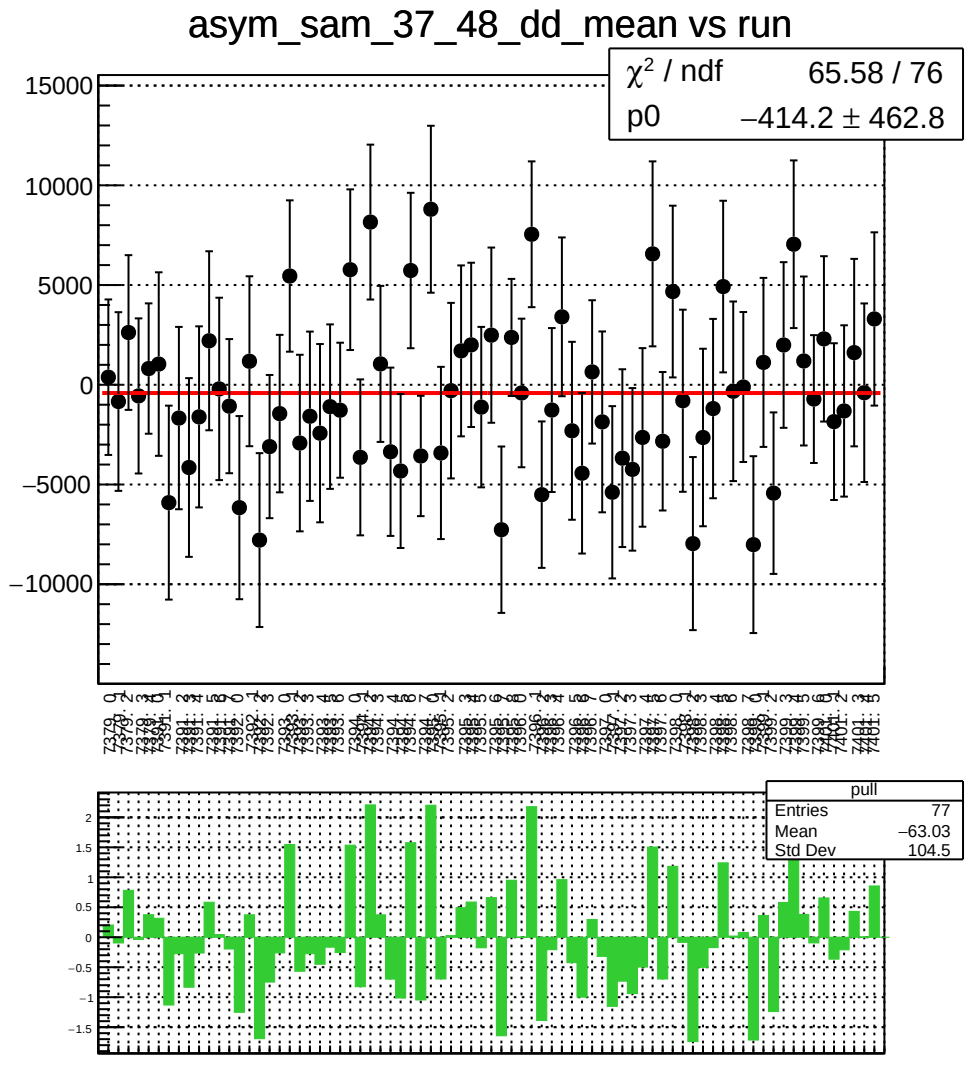

pull1D
Entries 77
Mean 0.0007867
Std Dev 1.031

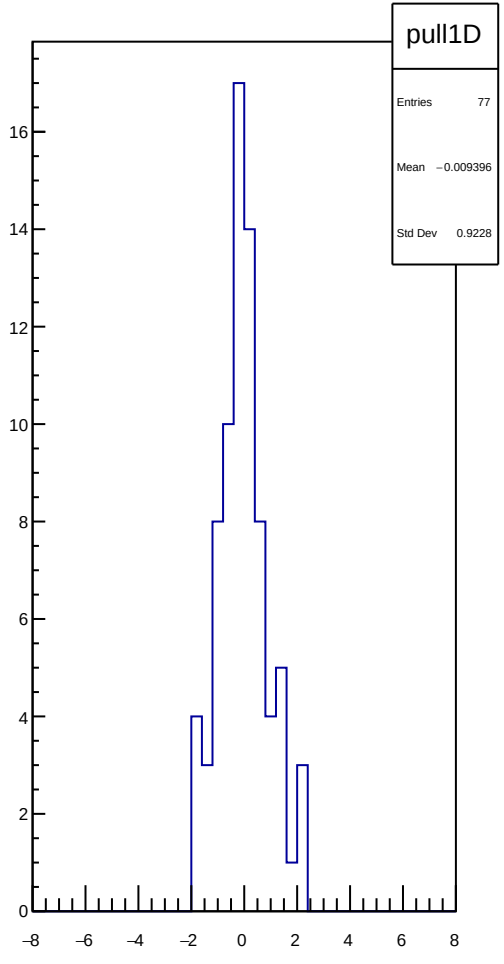

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 5728 / 76
p0 85.16 ± 0.06954
95
90
85
80
75
70
65

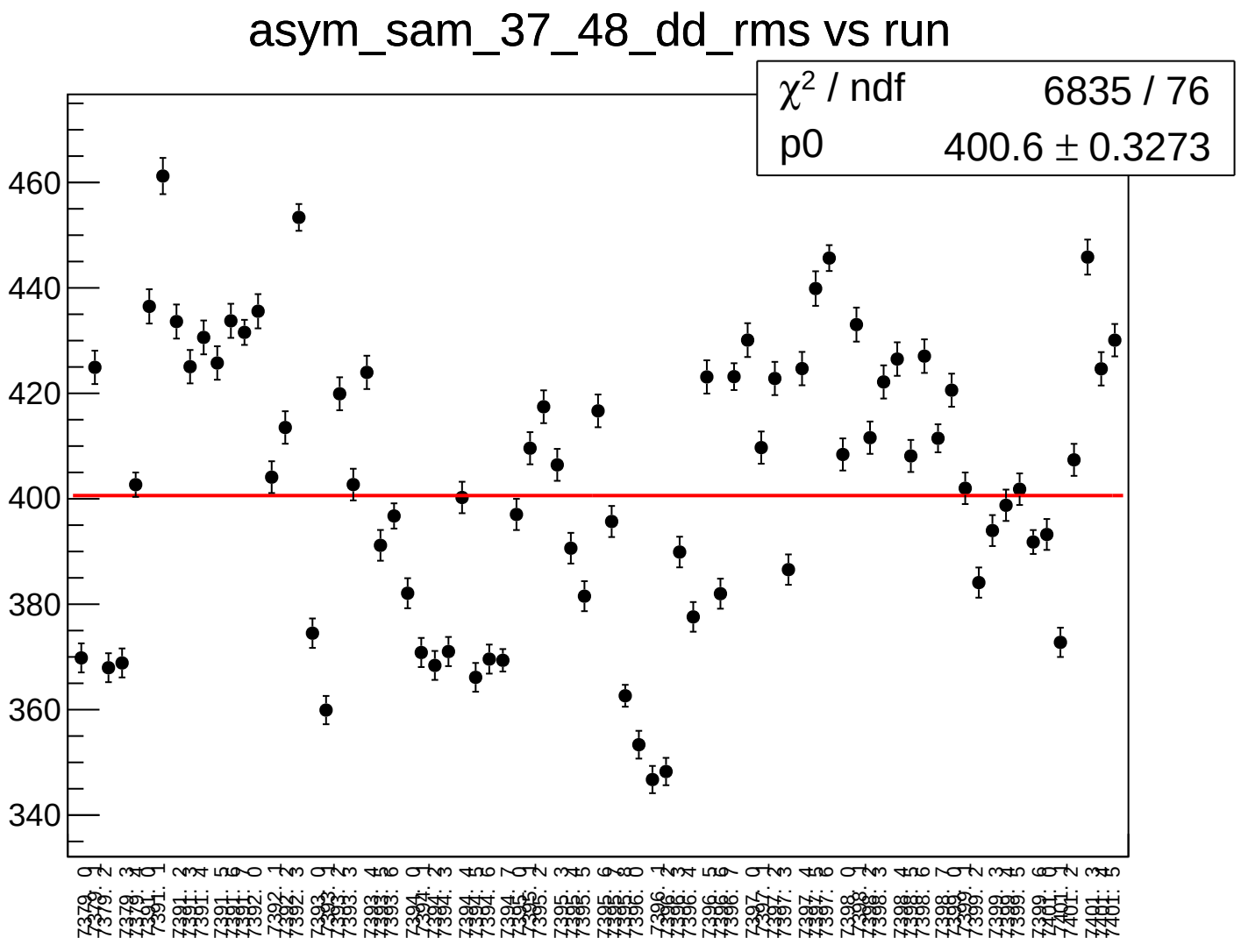

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 65.04 / 76
p0 432.6 ± 452.1
pull
Entries 77
Mean −115.4
Std Dev 155.7

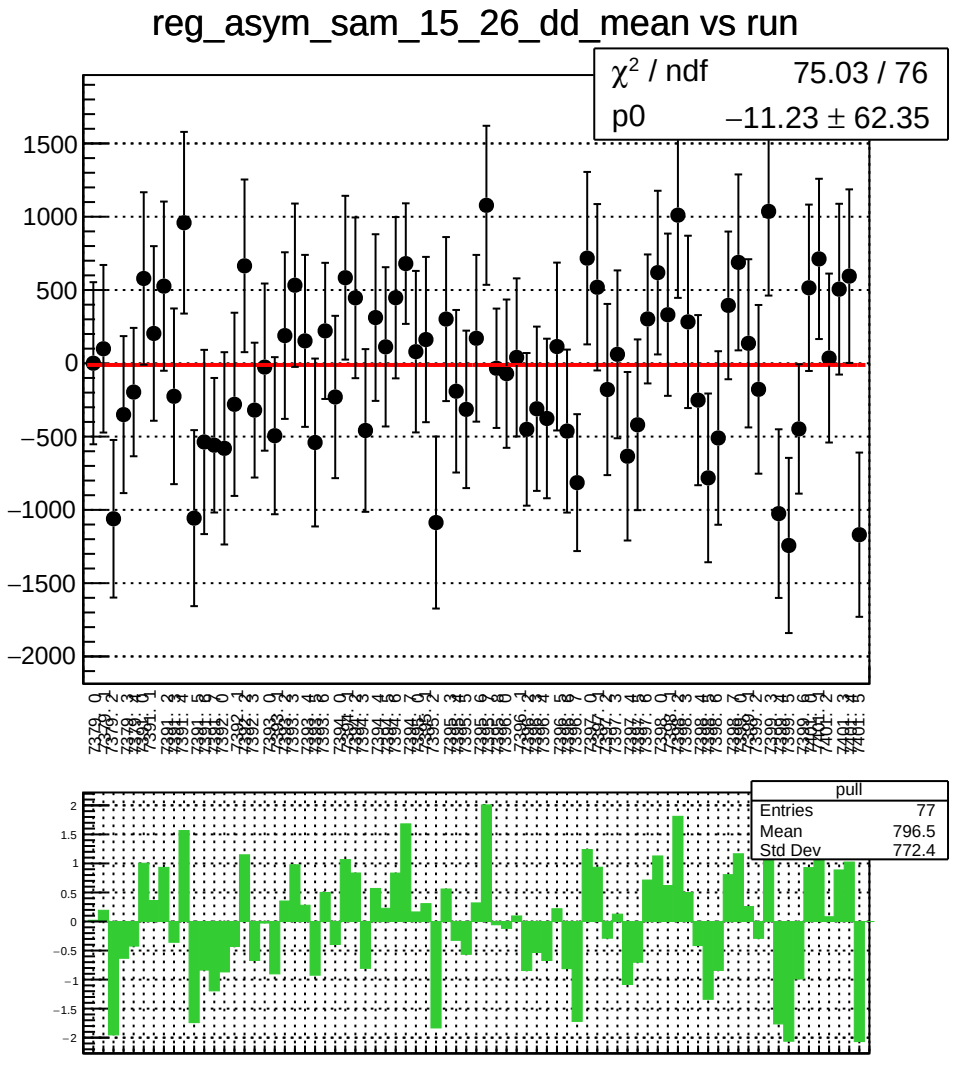

pull1D
Entries 77
Mean 0.009037
Std Dev 0.919

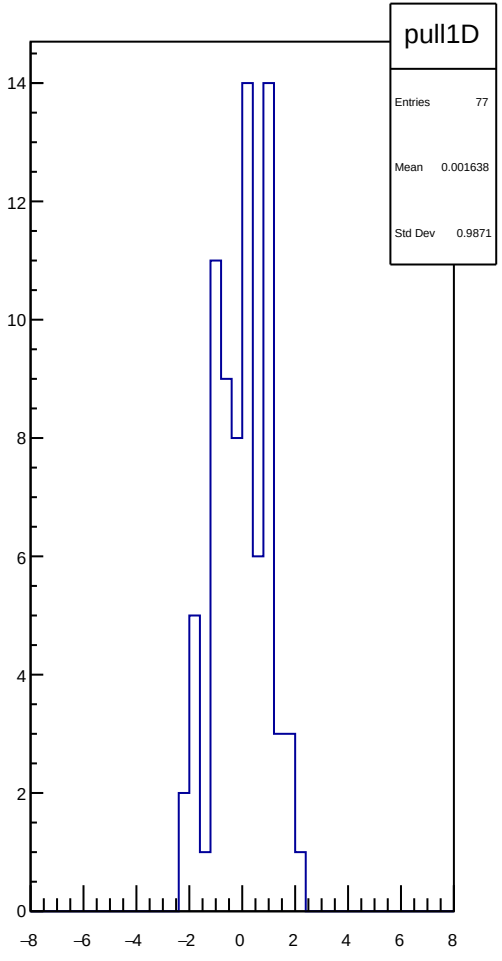

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 7075 / 76
p0 391.3 ± 0.3197
460
440
420
400
380
360
340

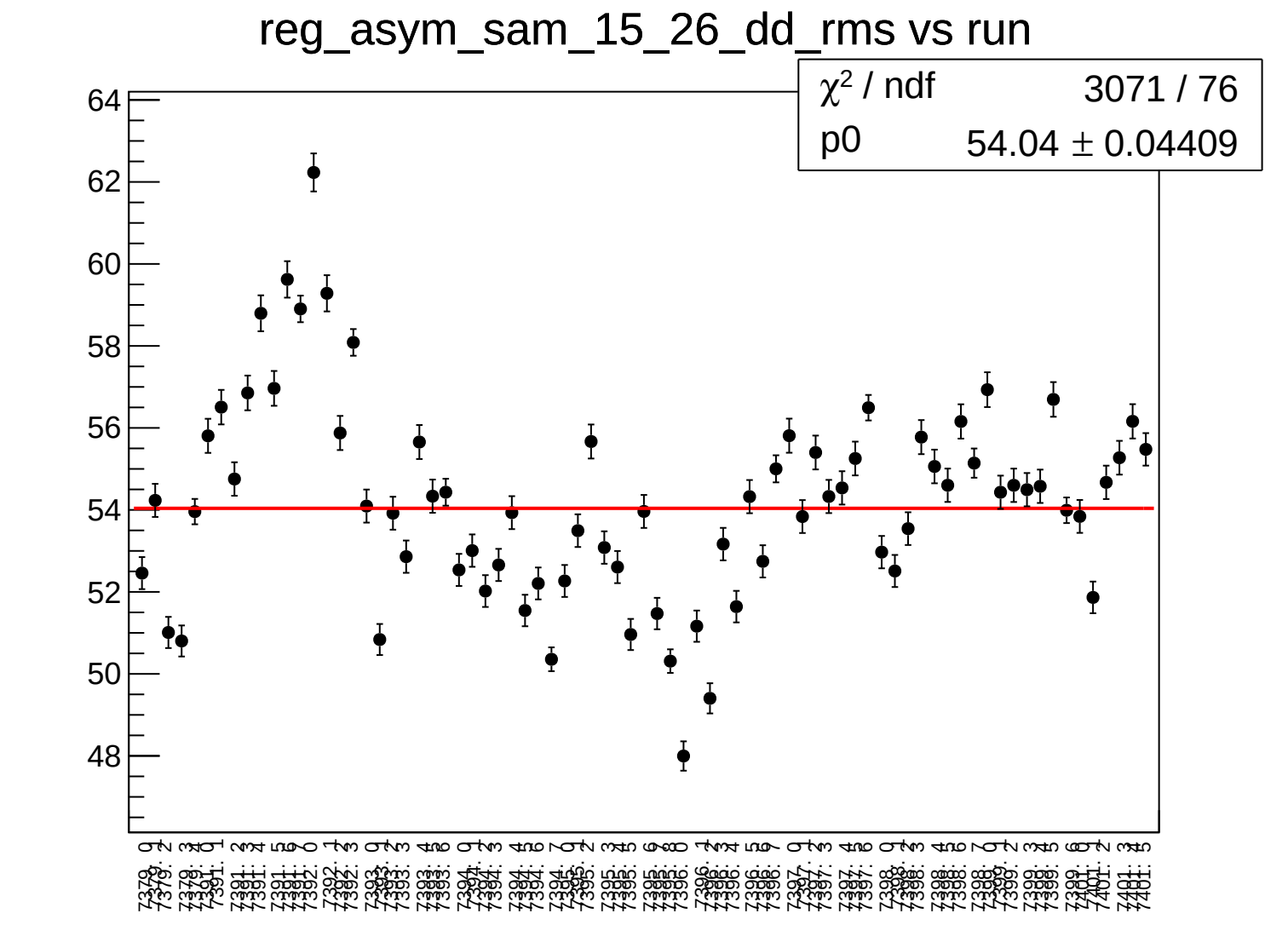

asym_sam_37_48_dd_mean vs run
χ² / ndf 65.58 / 76
p0 −414.2 ± 462.8
15000
10000
5000
0
−5000
−10000
pull
Entries 77
Mean −63.03
Std Dev 104.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

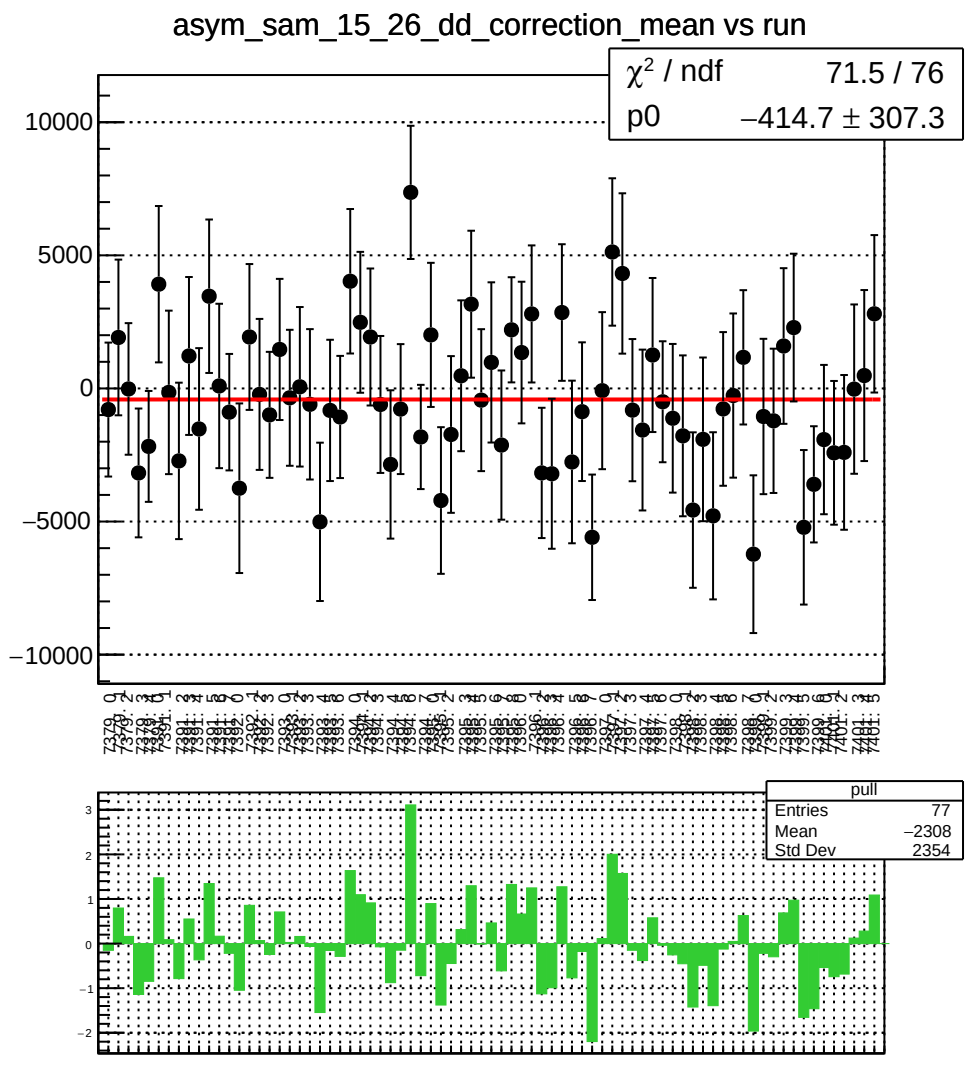

pull1D
Entries 77
Mean −0.009396
Std Dev 0.9228
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

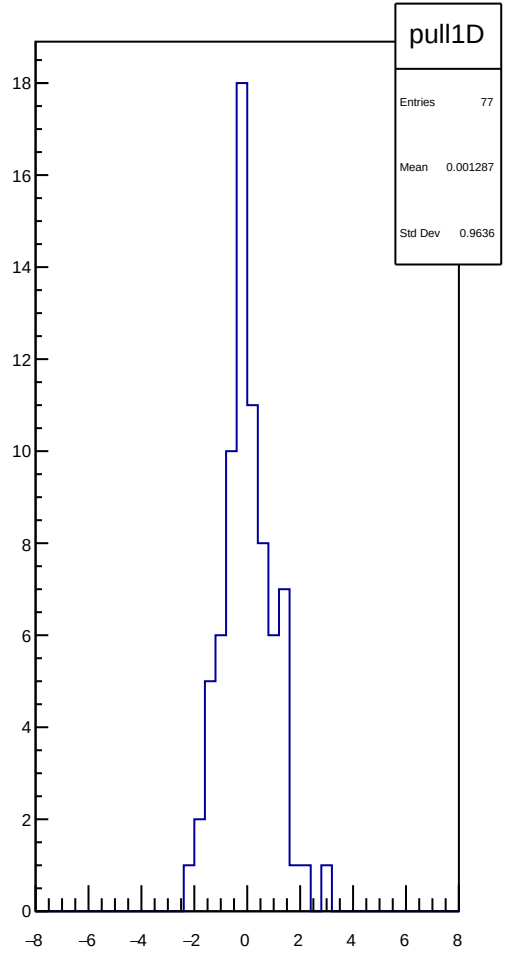

asym_sam_37_48_dd_rms vs run
χ² / ndf 6835 / 76
p0 400.6 ± 0.3273
460
440
420
400
380
360
340

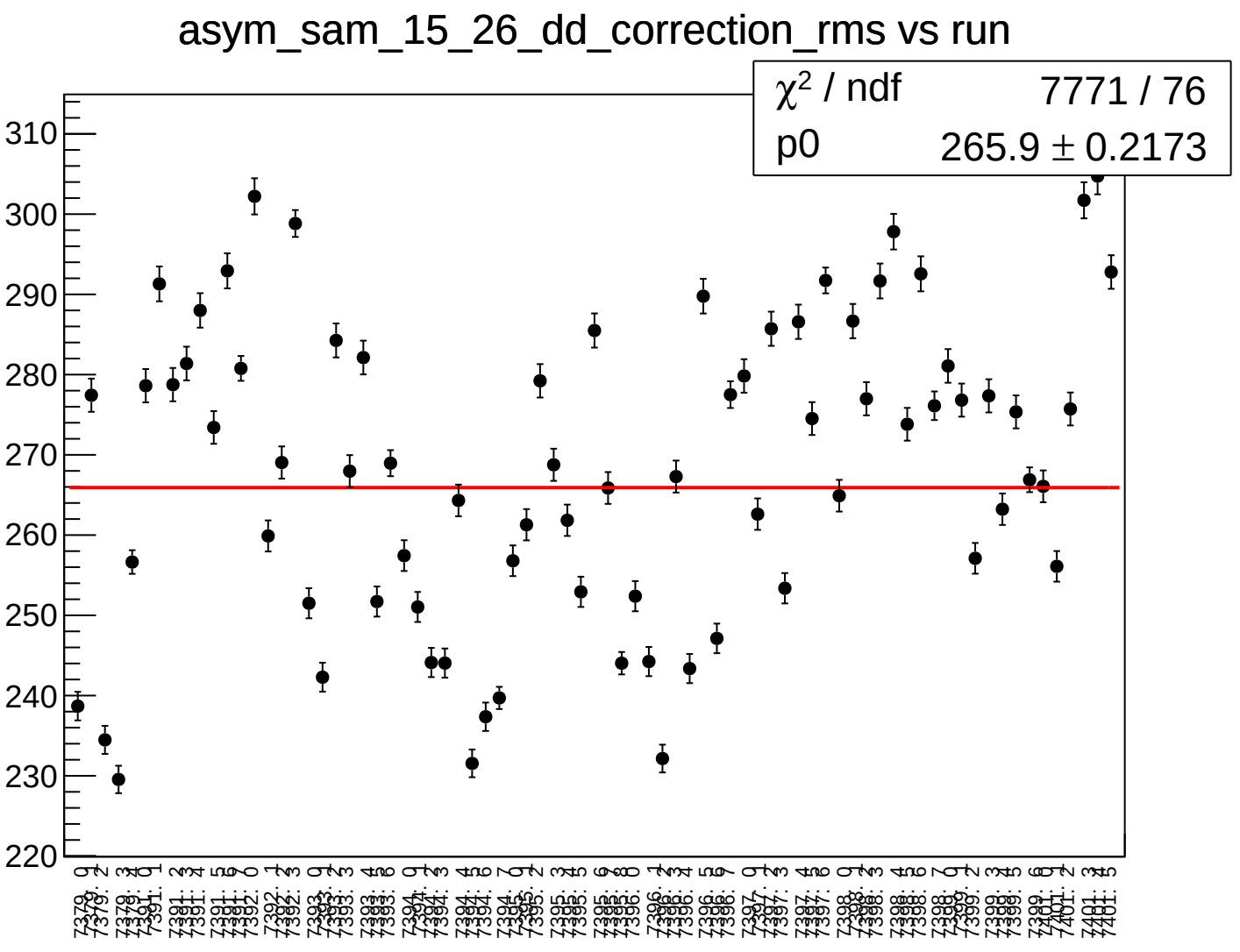

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 75.03 / 76
p0 −11.23 ± 62.35
pull
Entries 77
Mean 796.5
Std Dev 772.4

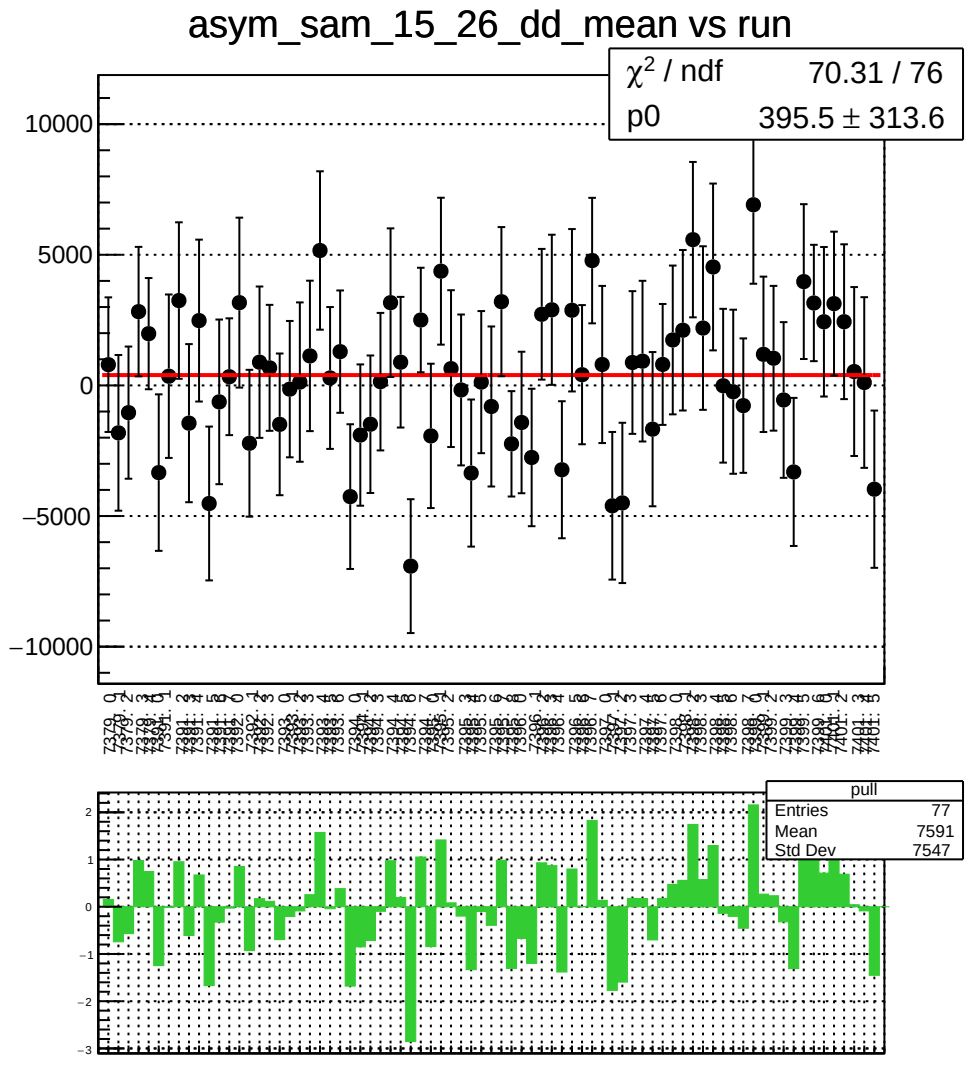

pull1D
Entries 77
Mean 0.001638
Std Dev 0.9871

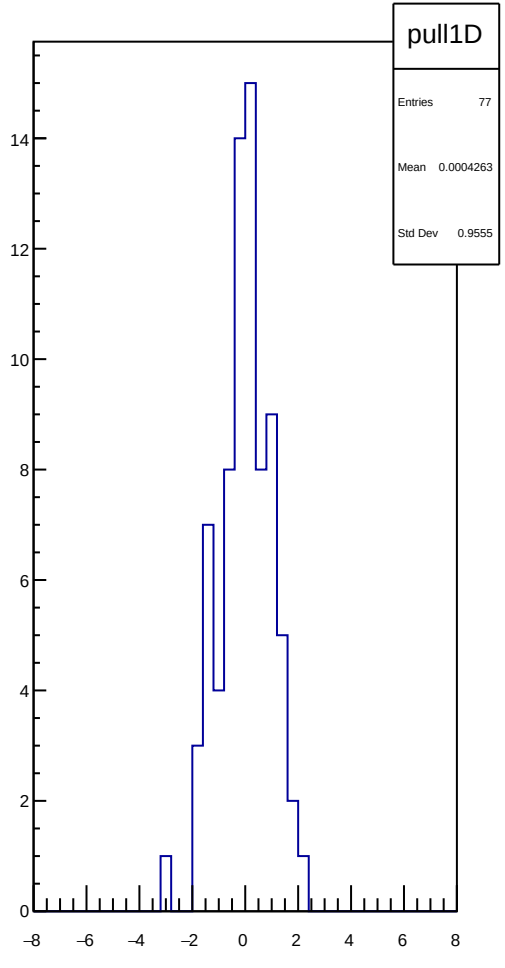

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 3071 / 76
p0 54.04 ± 0.04409
64
62
60
58
56
54
52
50
48

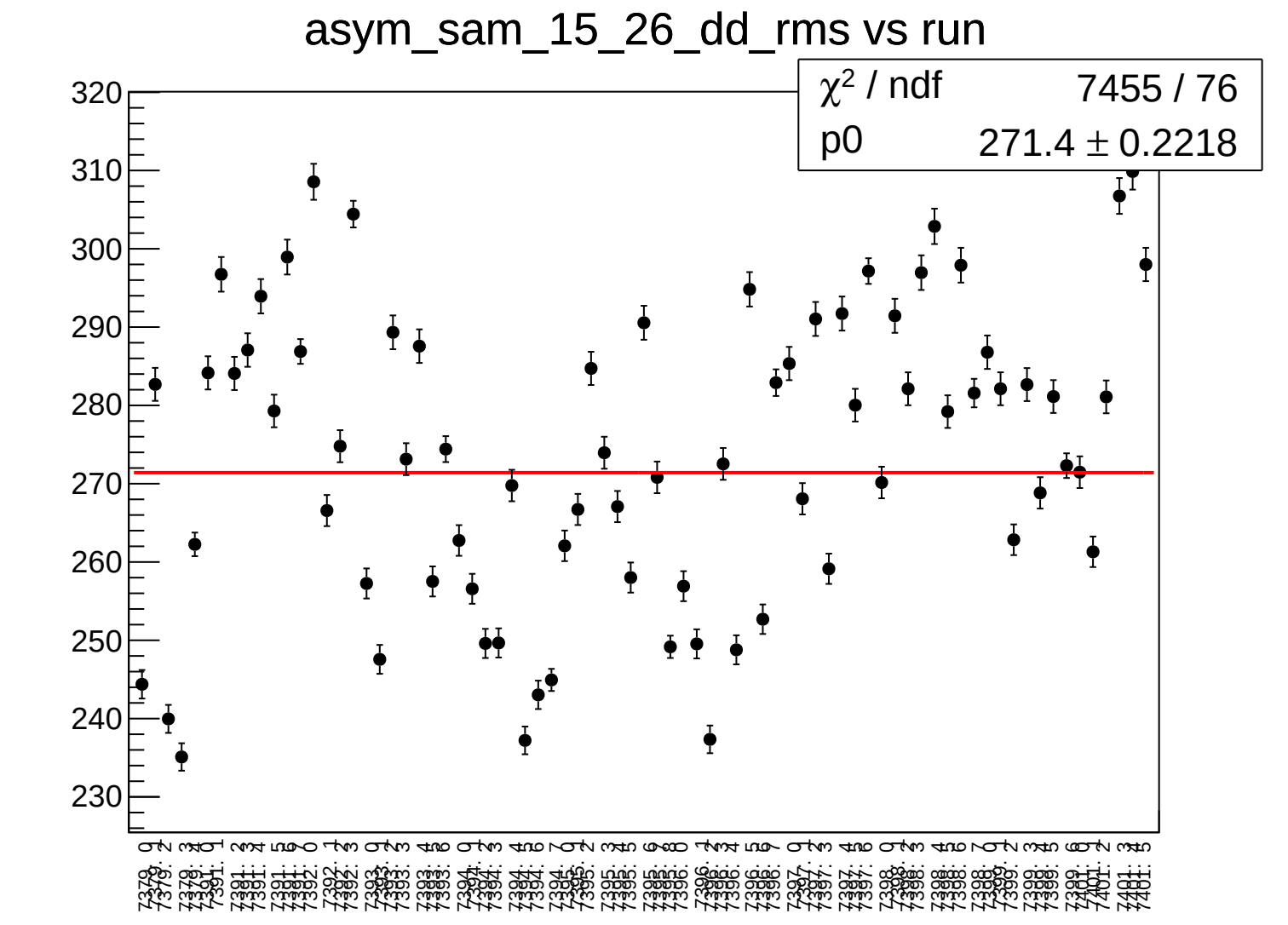

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 71.5 / 76
p0 −414.7 ± 307.3
10000
5000
0
−5000
−10000
pull
Entries 77
Mean −2308
Std Dev 2354
3
2
1
0
−1
−2

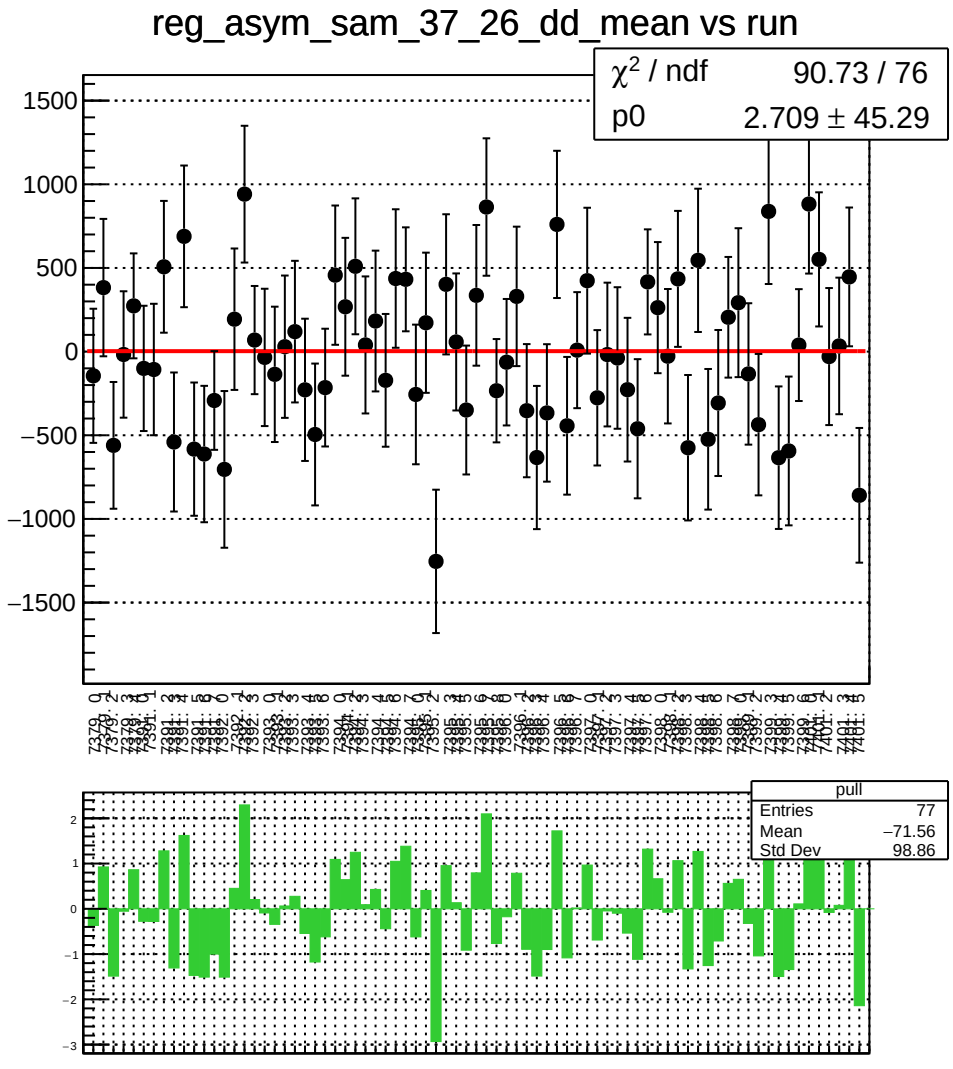

pull1D
Entries 77
Mean 0.001287
Std Dev 0.9636
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

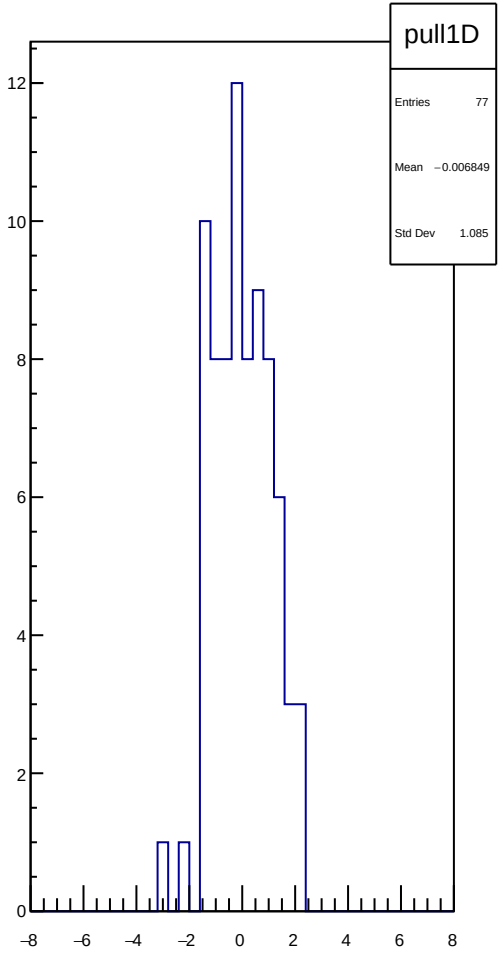

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 7771 / 76
p0 265.9 ± 0.2173
310
300
290
280
270
260
250
240
230
220

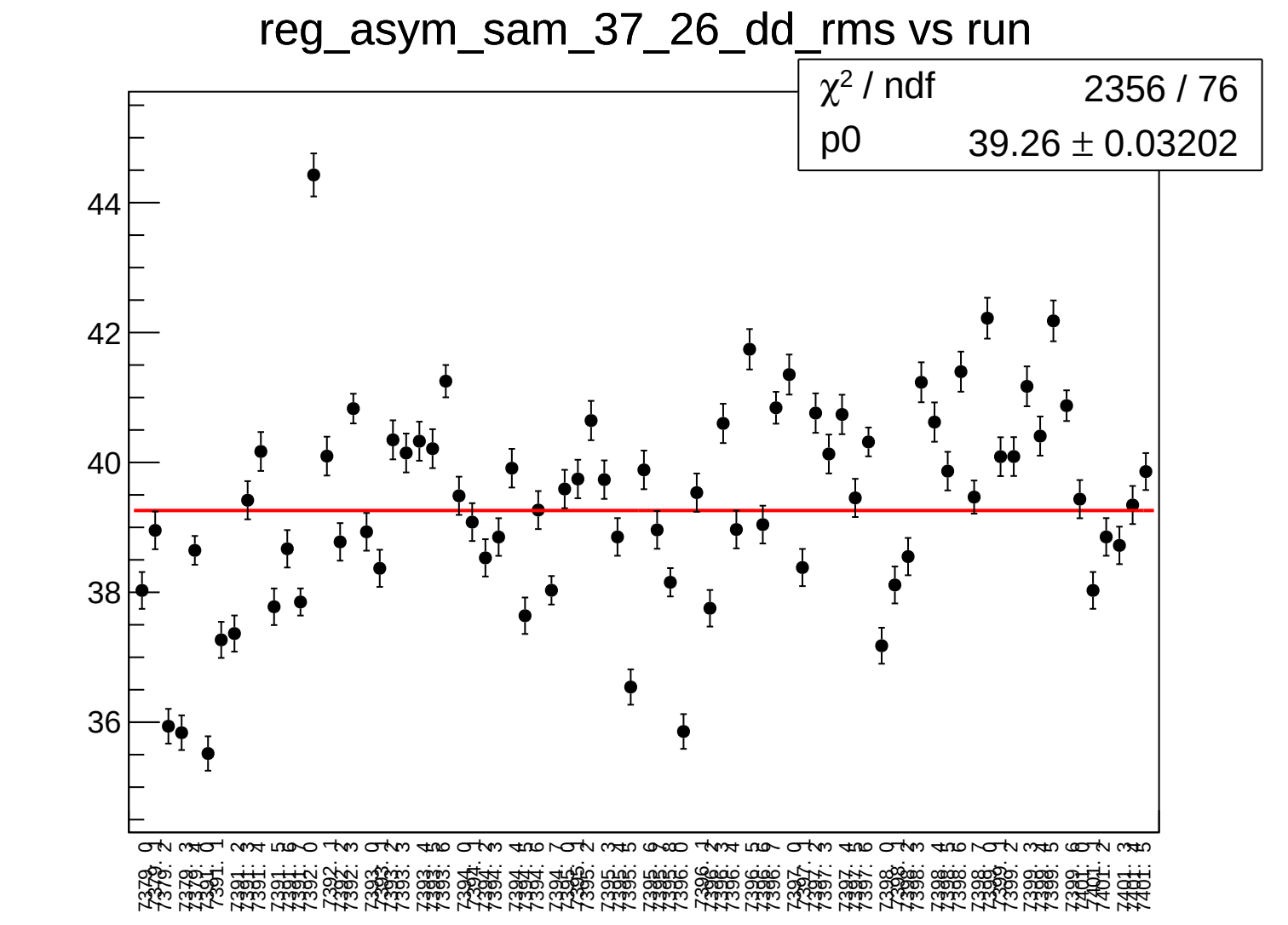

asym_sam_15_26_dd_mean vs run
χ^2 / ndf 70.31 / 76
p0 395.5 ± 313.6
10000
5000
0
−5000
−10000
pull
Entries 77
Mean 7591
Std Dev 7547
2
1
0
−1
−2
−3

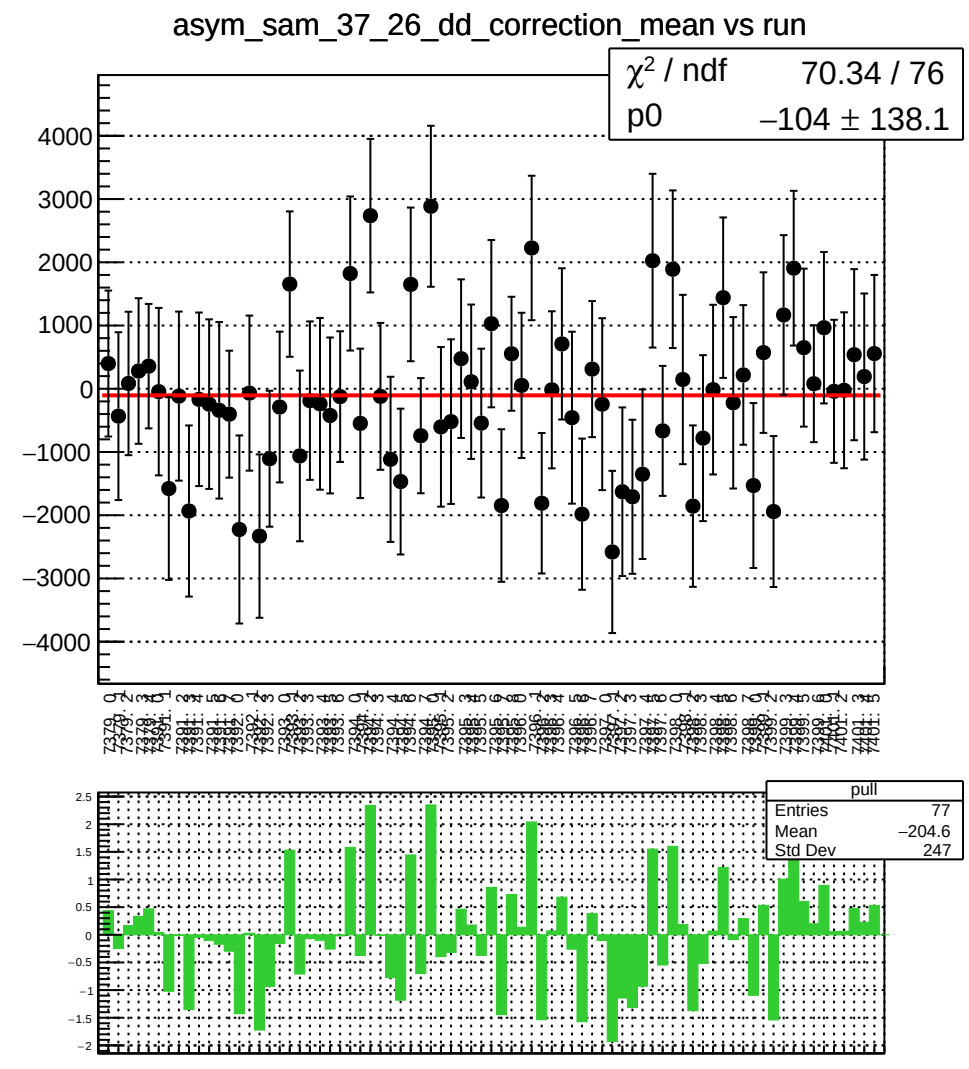

pull1D
Entries 77
Mean 0.0004263
Std Dev 0.9555
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

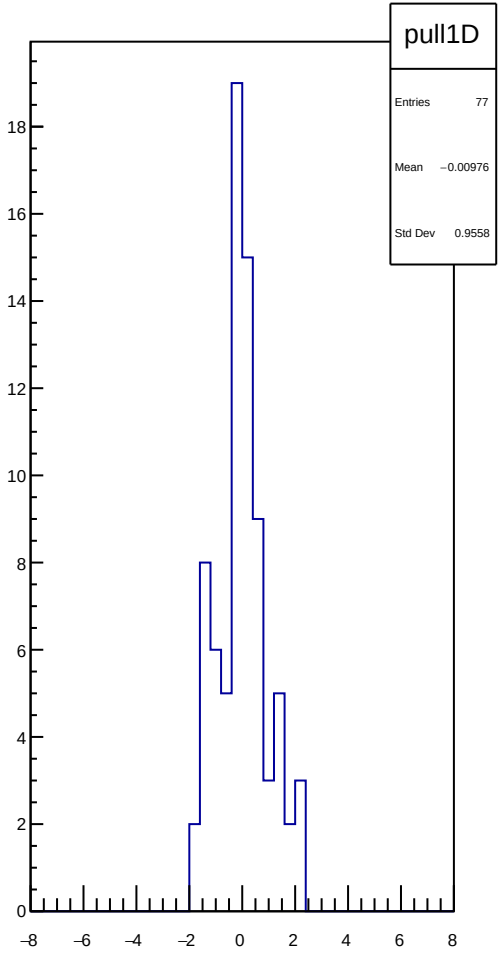

asym_sam_15_26_dd_rms vs run
χ² / ndf 7455 / 76
p0 271.4 ± 0.2218
320
310
300
290
280
270
260
250
240
230

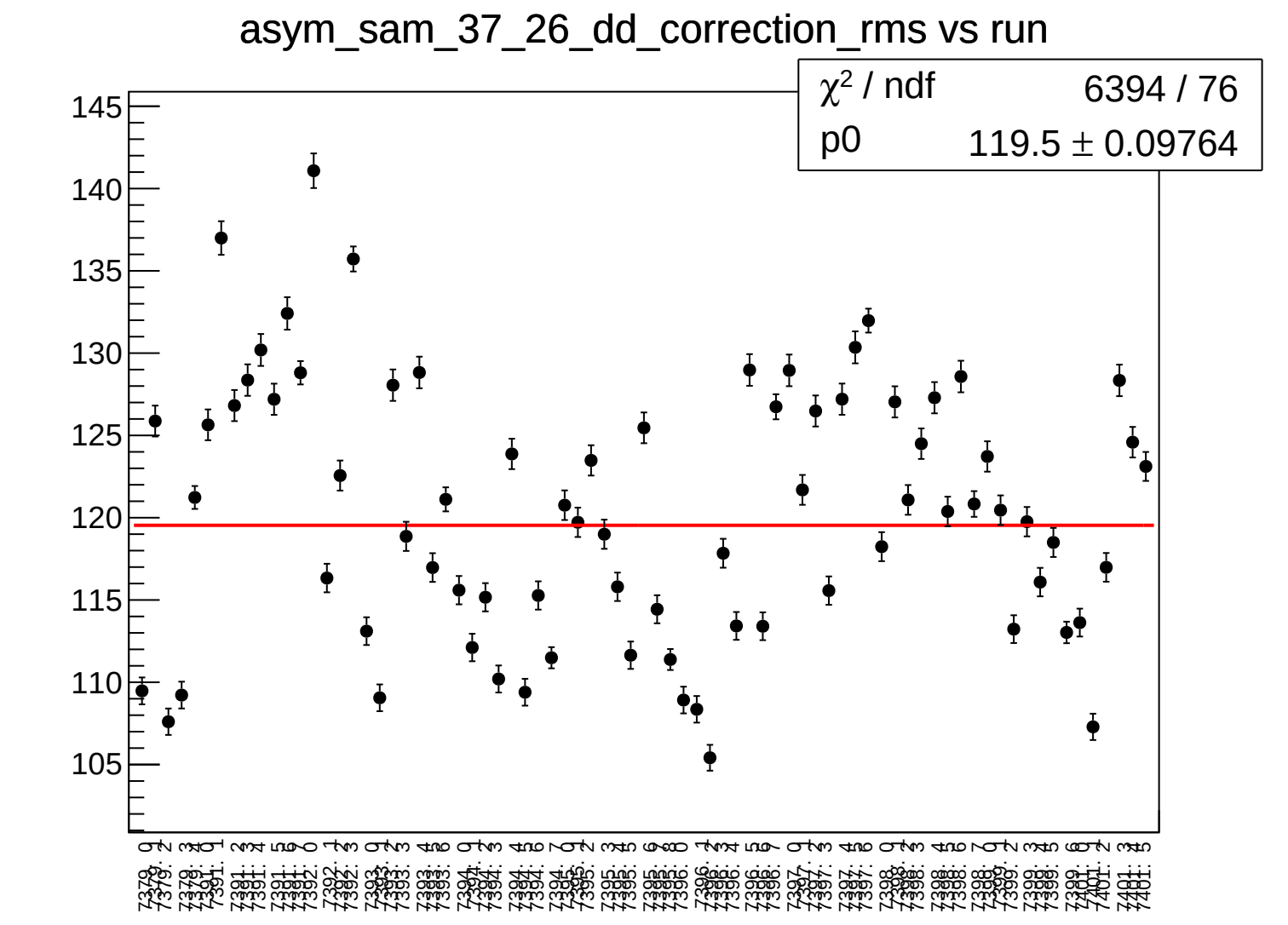

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 90.73 / 76
p0 2.709 ± 45.29
pull
Entries 77
Mean −71.56
Std Dev 98.86

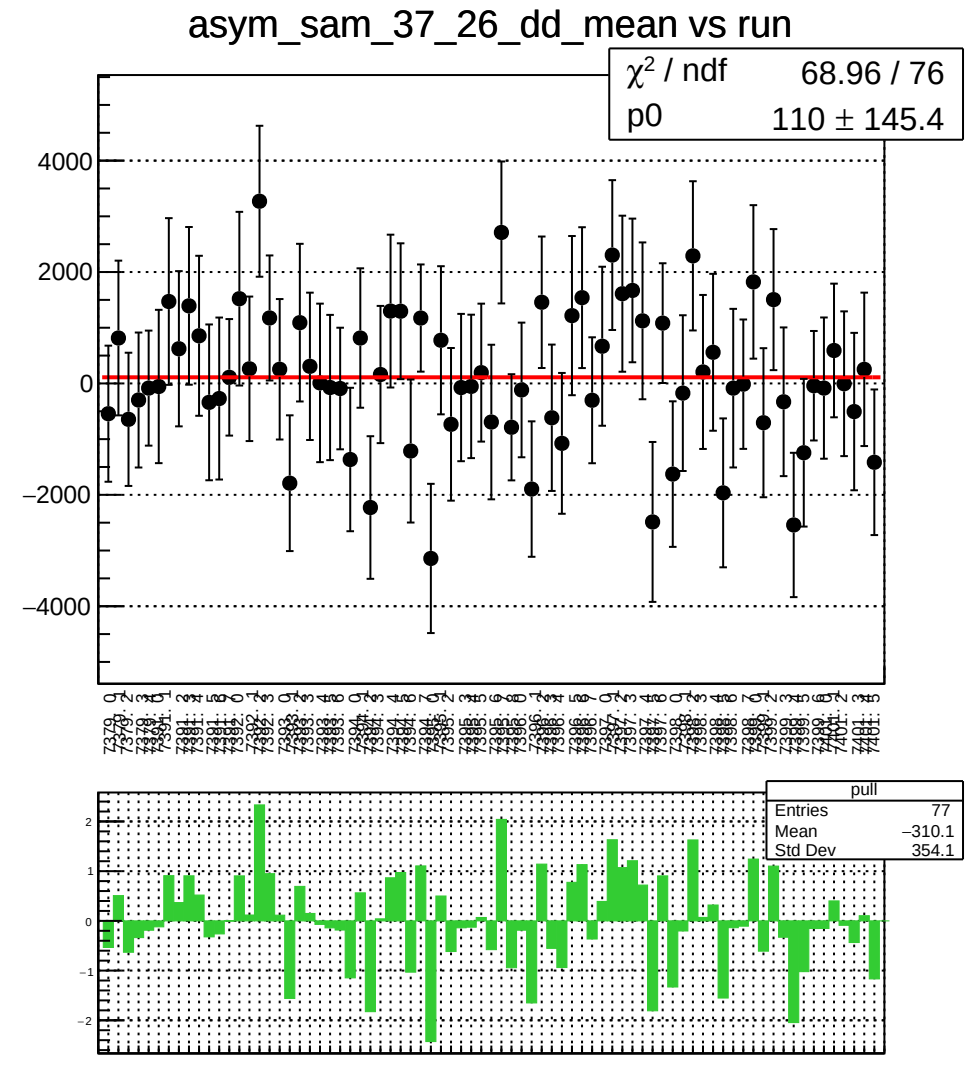

pull1D
Entries 77
Mean −0.006849
Std Dev 1.085

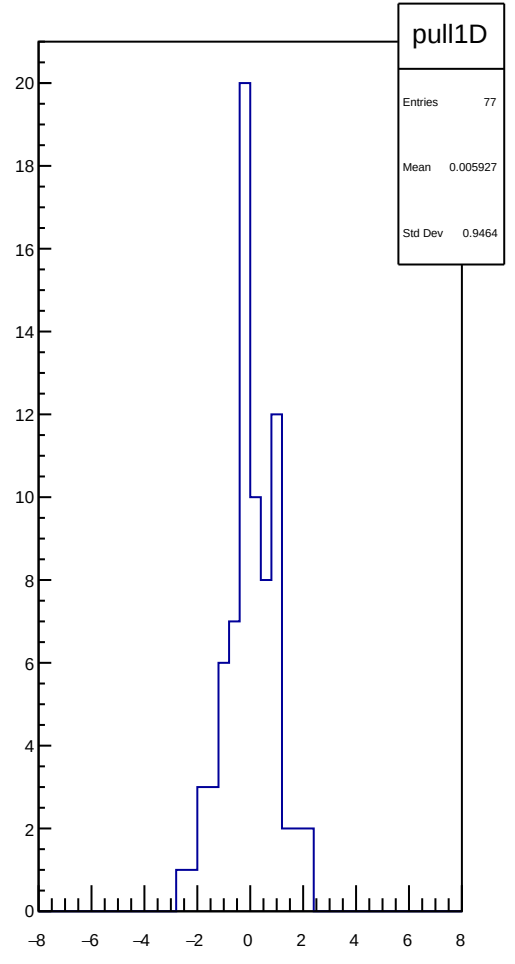

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 2356 / 76
p0 39.26 ± 0.03202
44
42
40
38
36

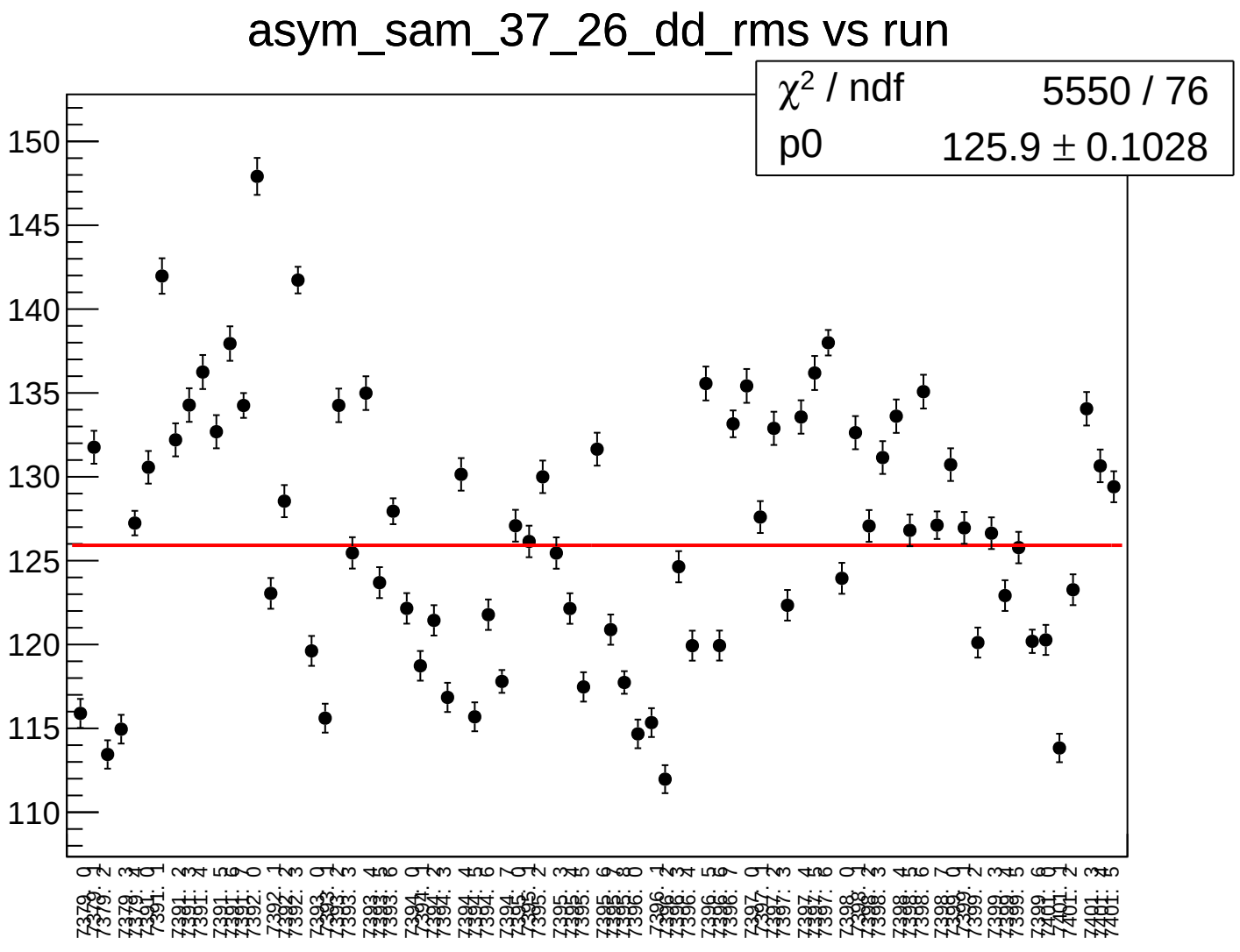

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 70.34 / 76
p0 −104 ± 138.1
pull
Entries 77
Mean −204.6
Std Dev 247

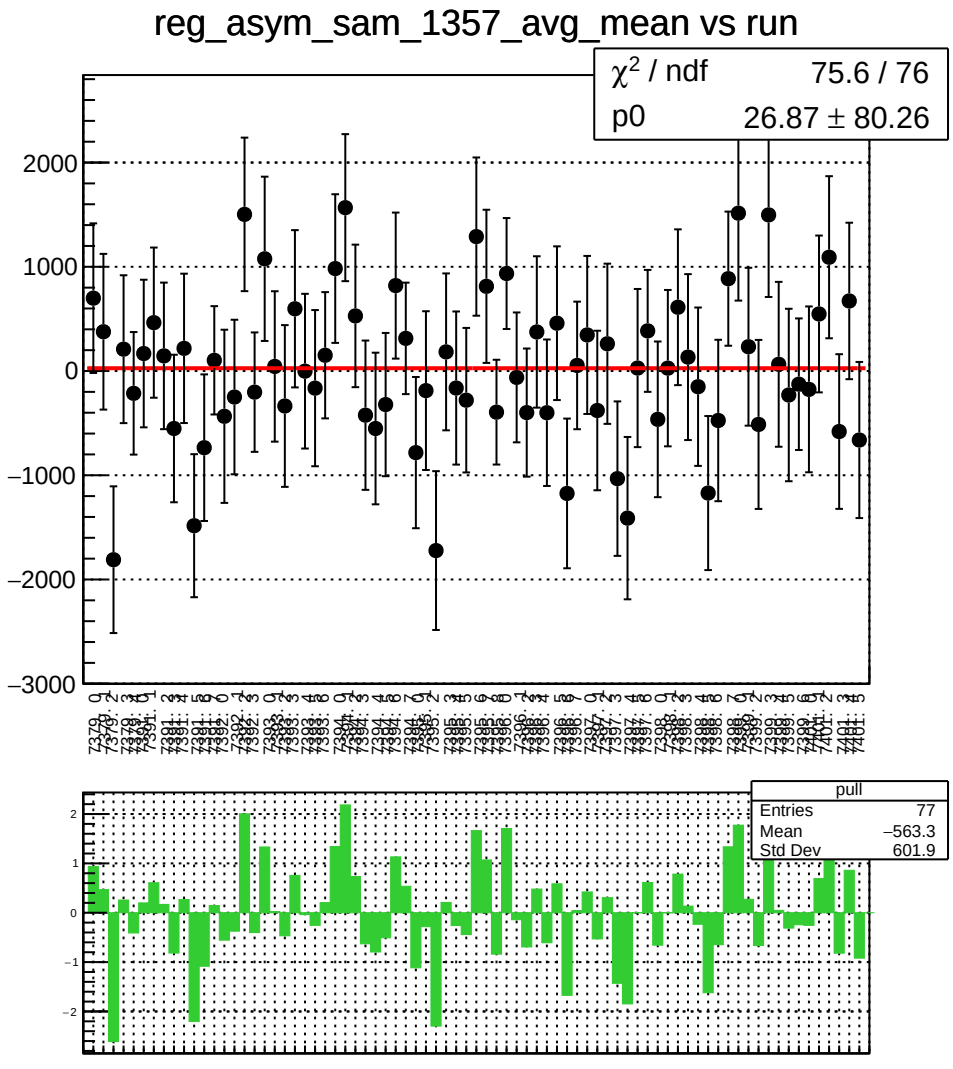

pull1D
Entries 77
Mean −0.00976
Std Dev 0.9558

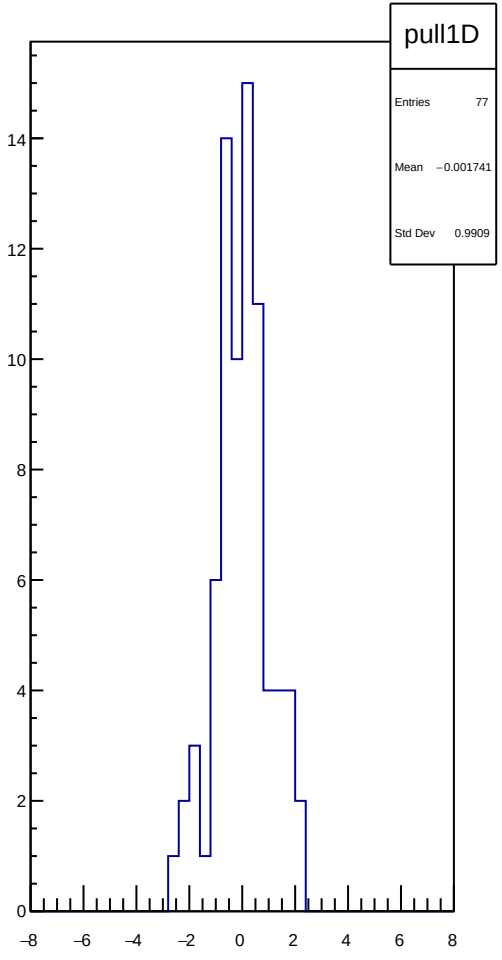

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 6394 / 76
p0 119.5 ± 0.09764
145
140
135
130
125
120
115
110
105

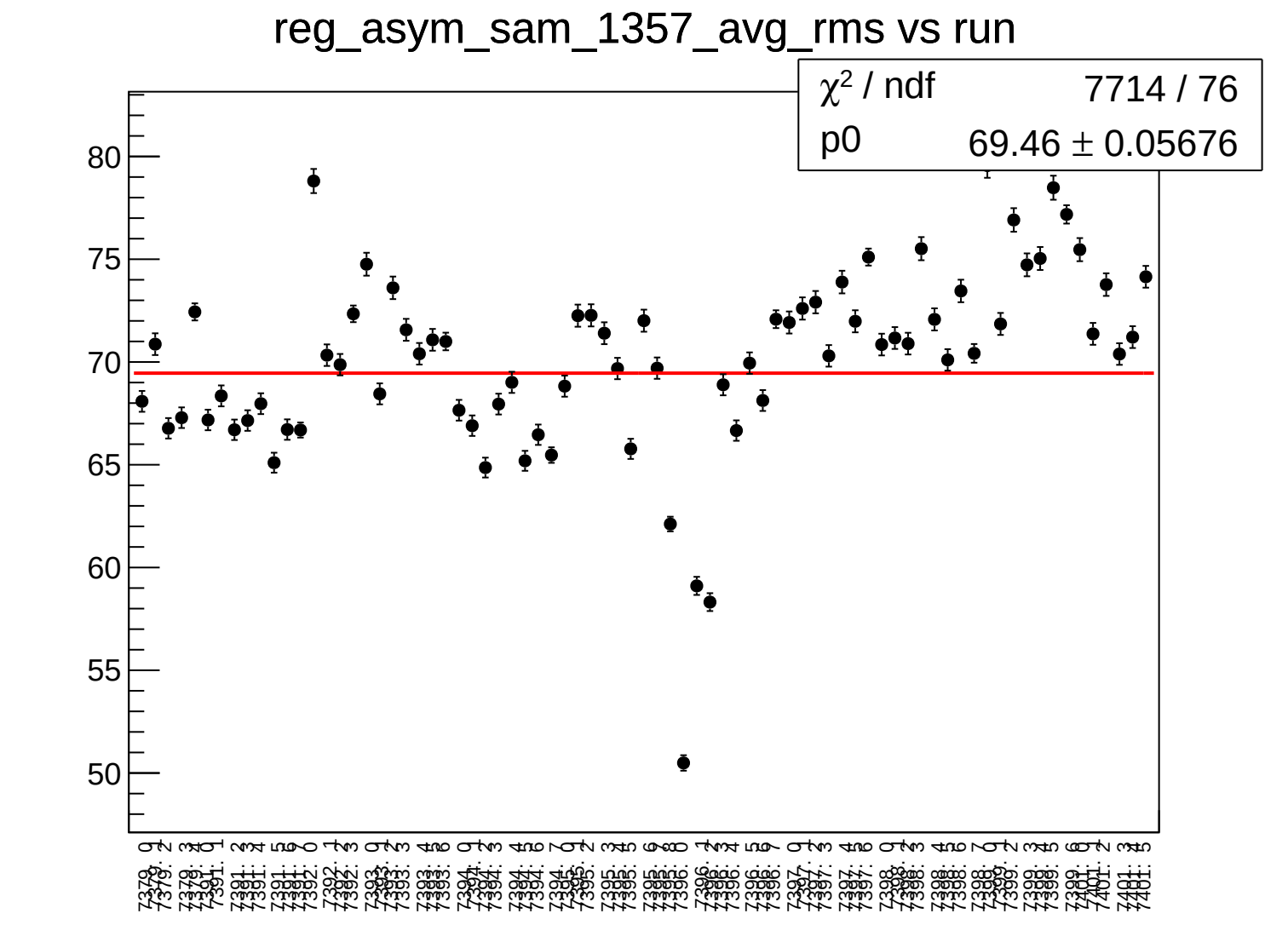

asym_sam_37_26_dd_mean vs run
χ² / ndf 68.96 / 76
p0 110 ± 145.4
4000
2000
0
−2000
−4000
pull
Entries 77
Mean −310.1
Std Dev 354.1
2
1
0
−1
−2

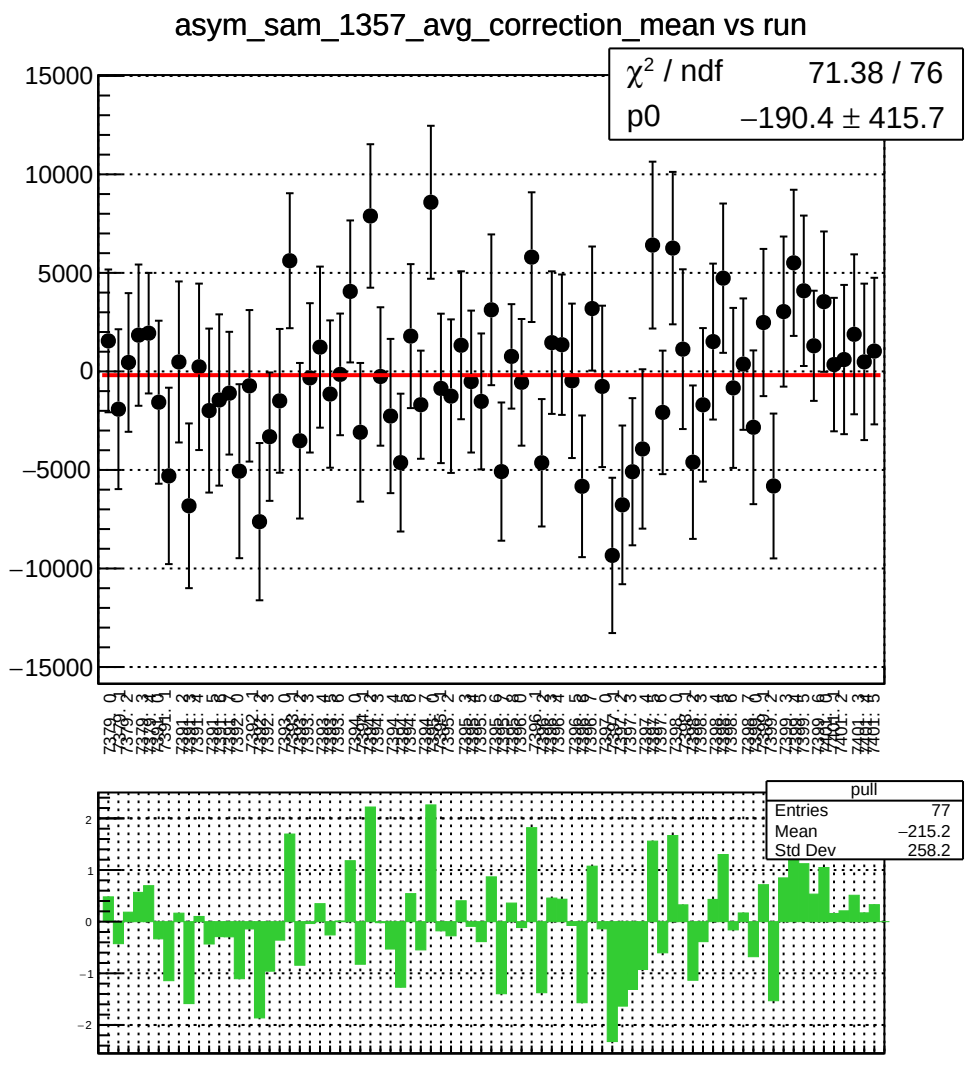

pull1D
Entries 77
Mean 0.005927
Std Dev 0.9464
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

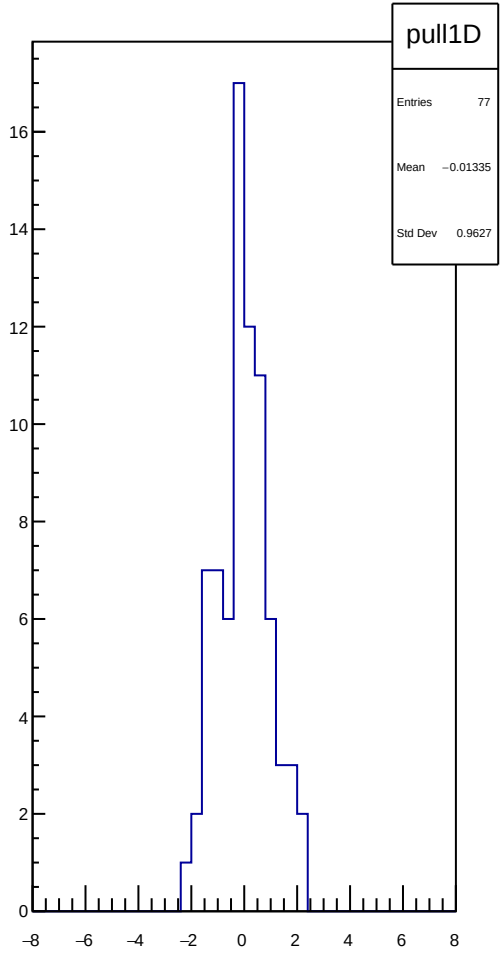

asym_sam_37_26_dd_rms vs run
χ² / ndf 5550 / 76
p0 125.9 ± 0.1028
150
145
140
135
130
125
120
115
110

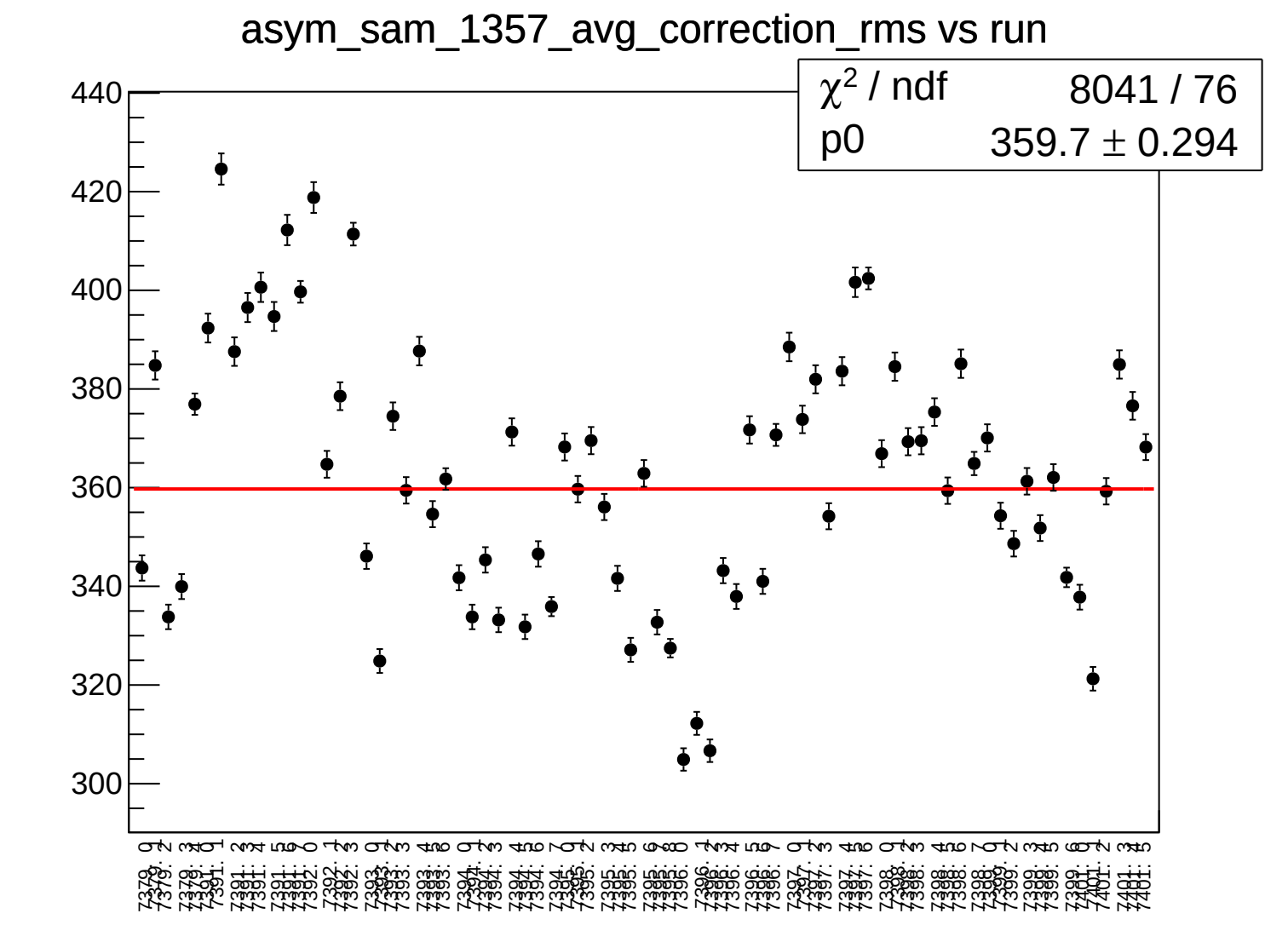

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 75.6 / 76
p0 26.87 ± 80.26
pull
Entries 77
Mean −563.3
Std Dev 601.9

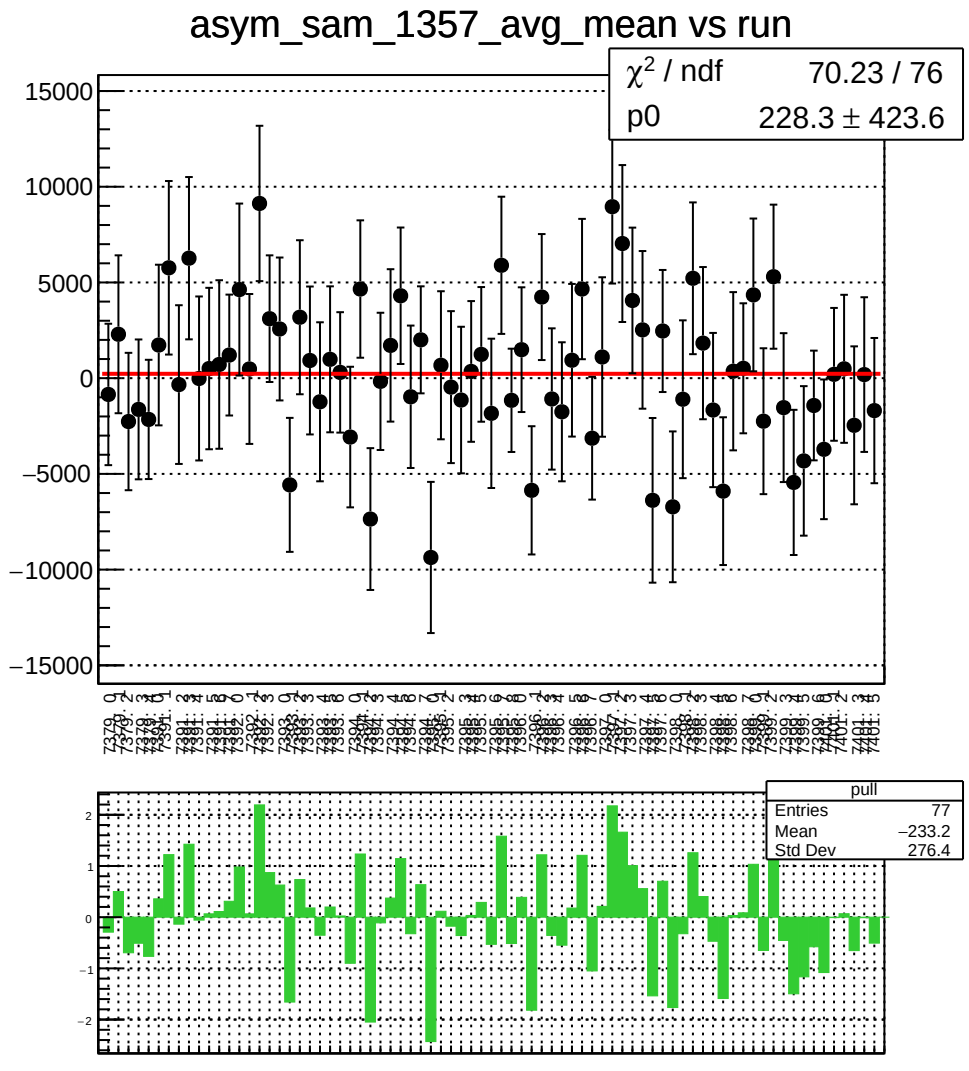

pull1D
Entries 77
Mean −0.001741
Std Dev 0.9909

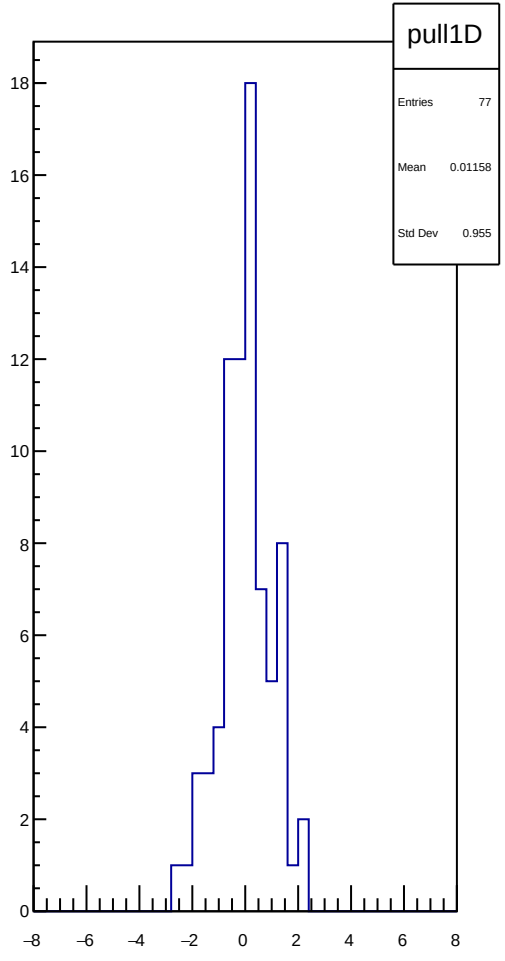

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 7714 / 76
p0 69.46 ± 0.05676
80
75
70
65
60
55
50

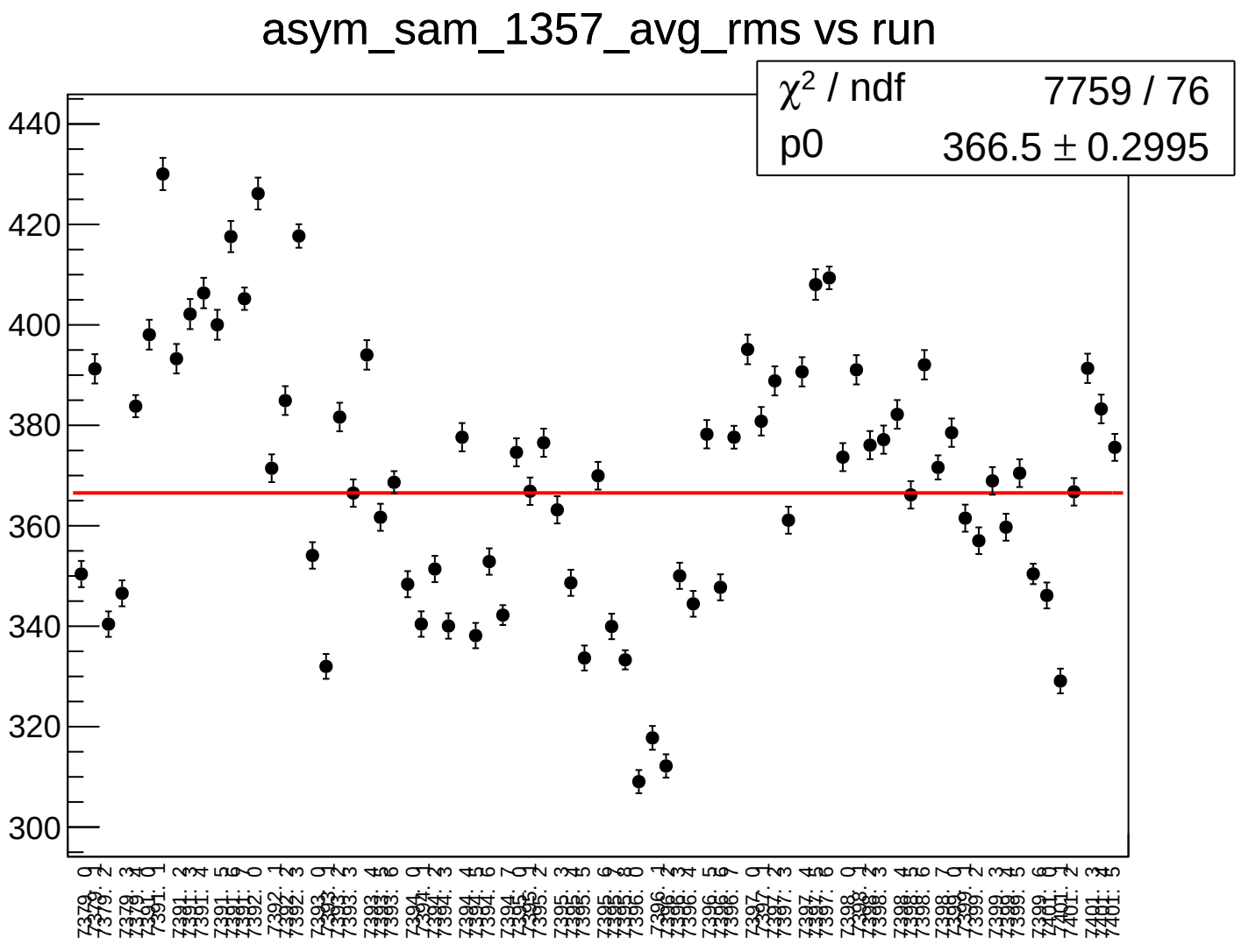

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 71.38 / 76
p0 −190.4 ± 415.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 77
Mean −215.2
Std Dev 258.2
2
1
0
−1
−2

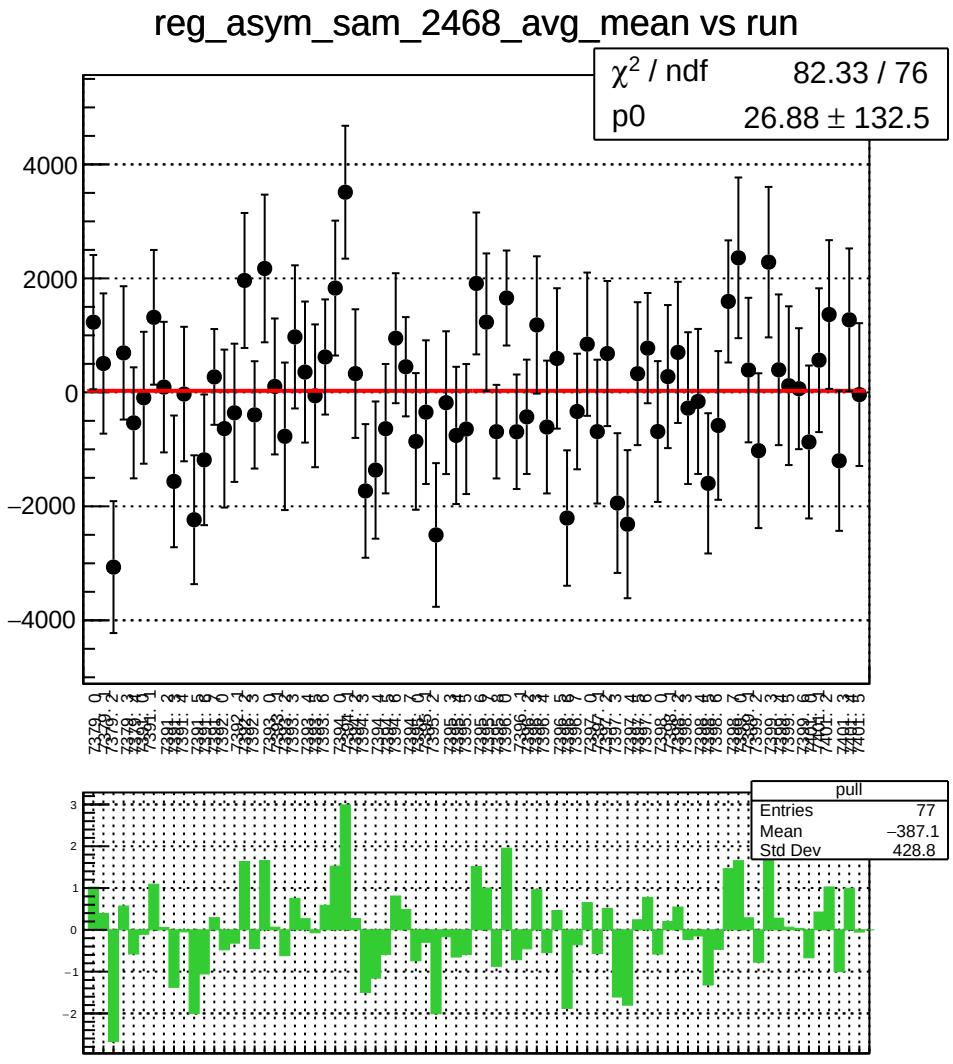

pull1D
Entries 77
Mean −0.01335
Std Dev 0.9627
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

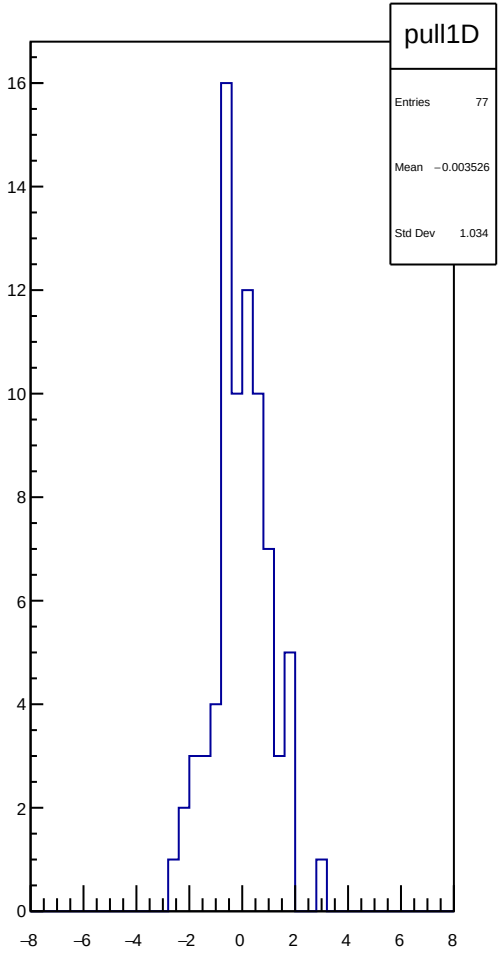

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 8041 / 76
p0 359.7 ± 0.294
440
420
400
380
360
340
320
300

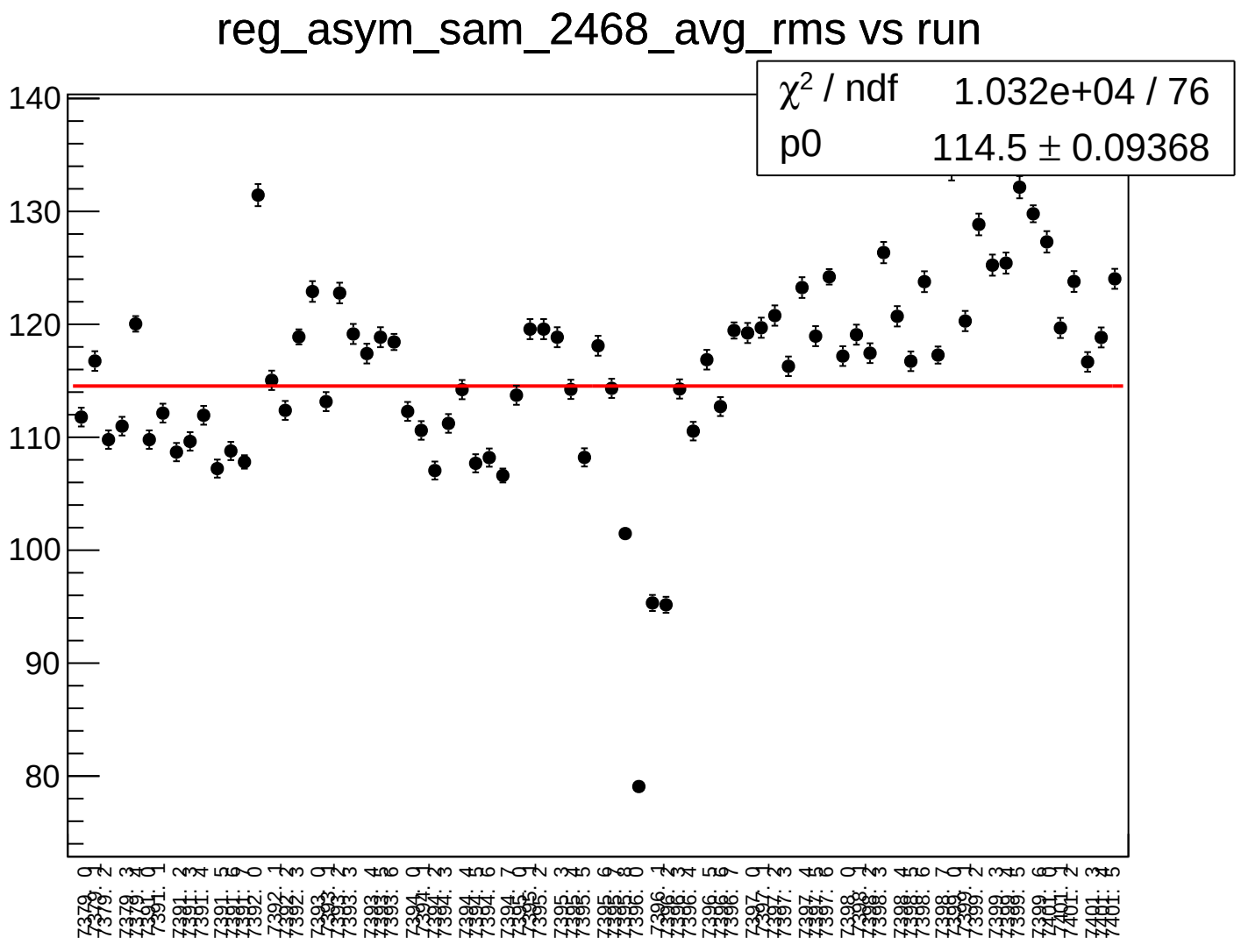

asym_sam_1357_avg_mean vs run
χ² / ndf 70.23 / 76
p0 228.3 ± 423.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 77
Mean −233.2
Std Dev 276.4
2
1
0
−1
−2

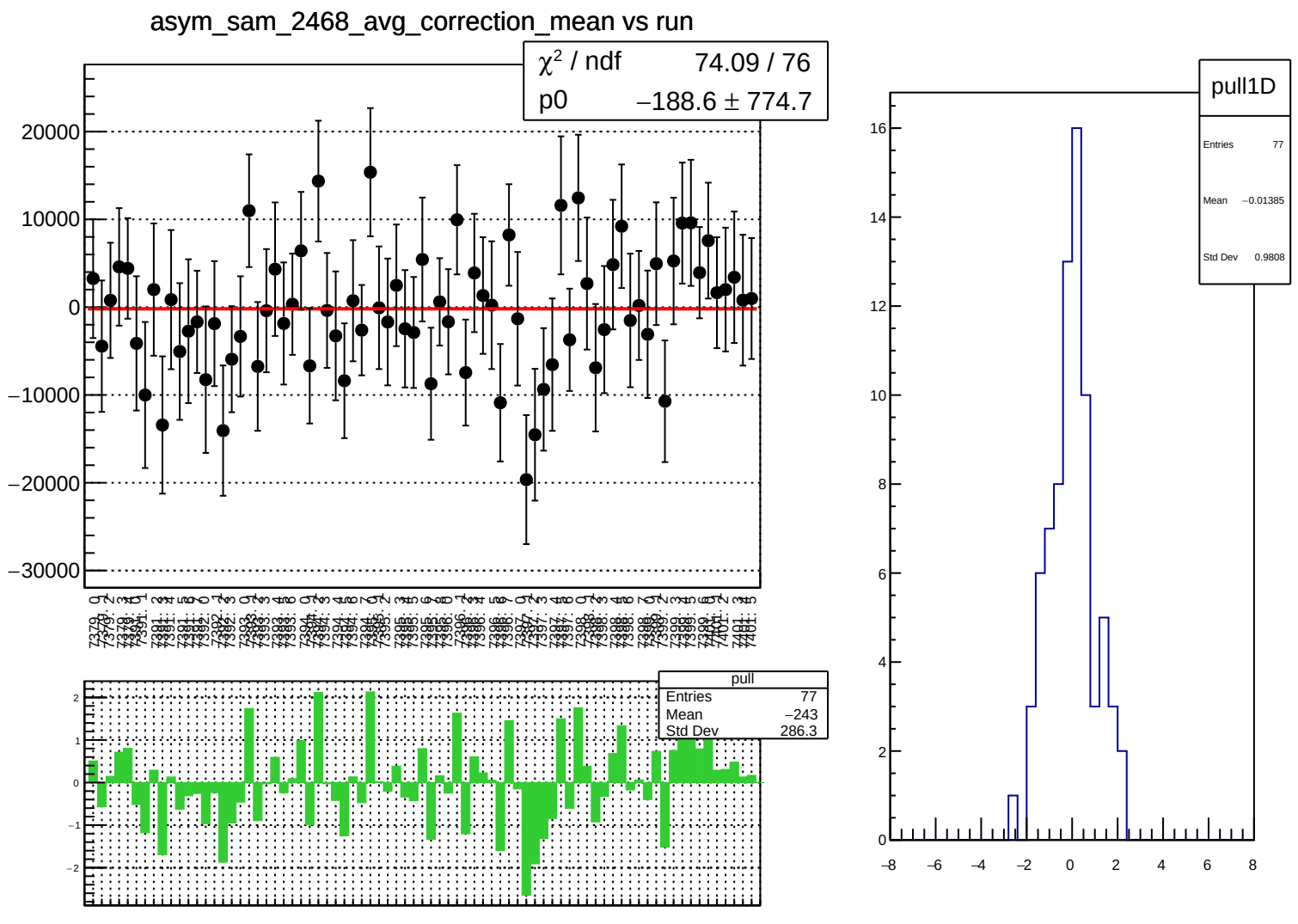

pull1D
Entries 77
Mean 0.01158
Std Dev 0.955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

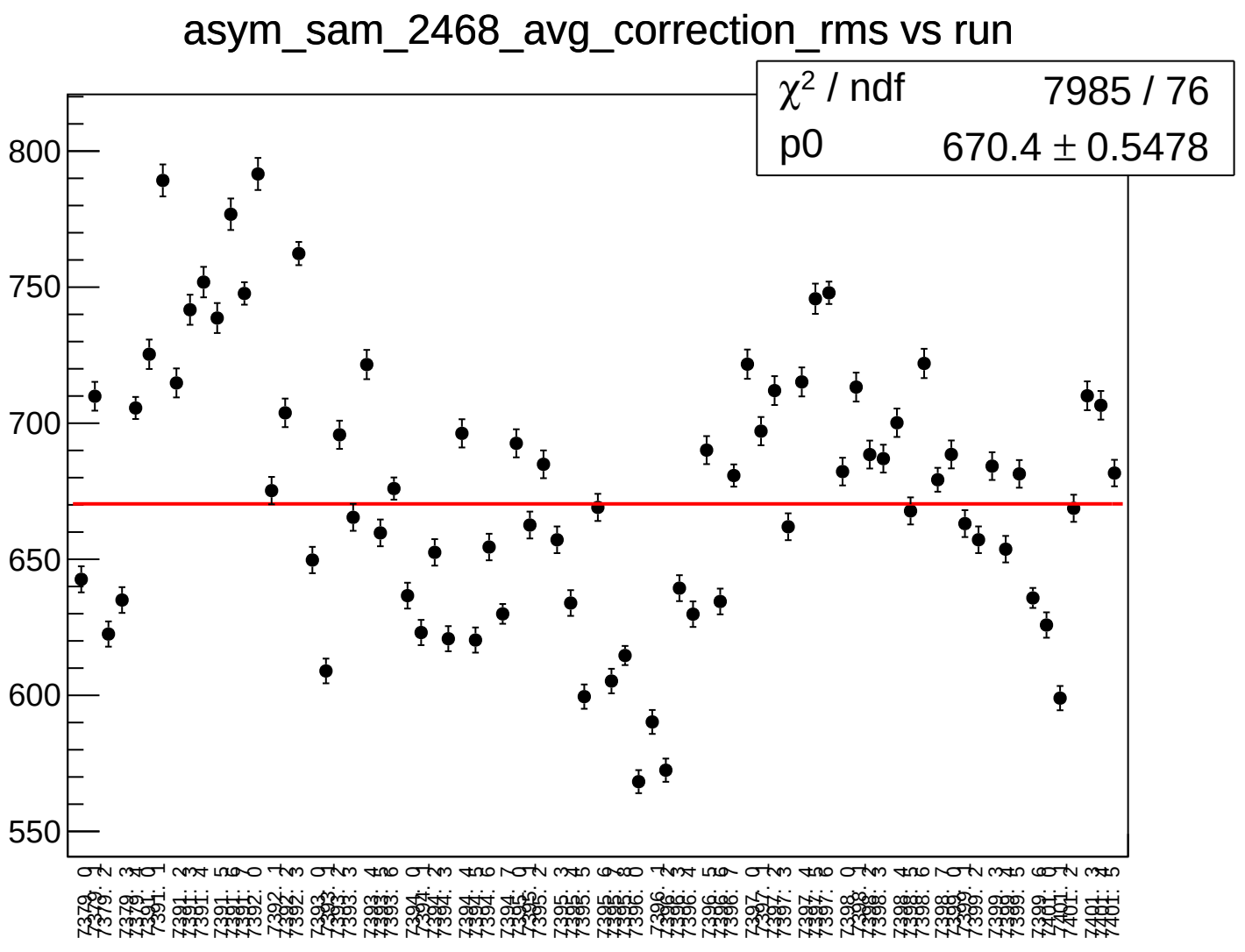

asym_sam_1357_avg_rms vs run
χ^2 / ndf 7759 / 76
p0 366.5 ± 0.2995
440
420
400
380
360
340
320
300

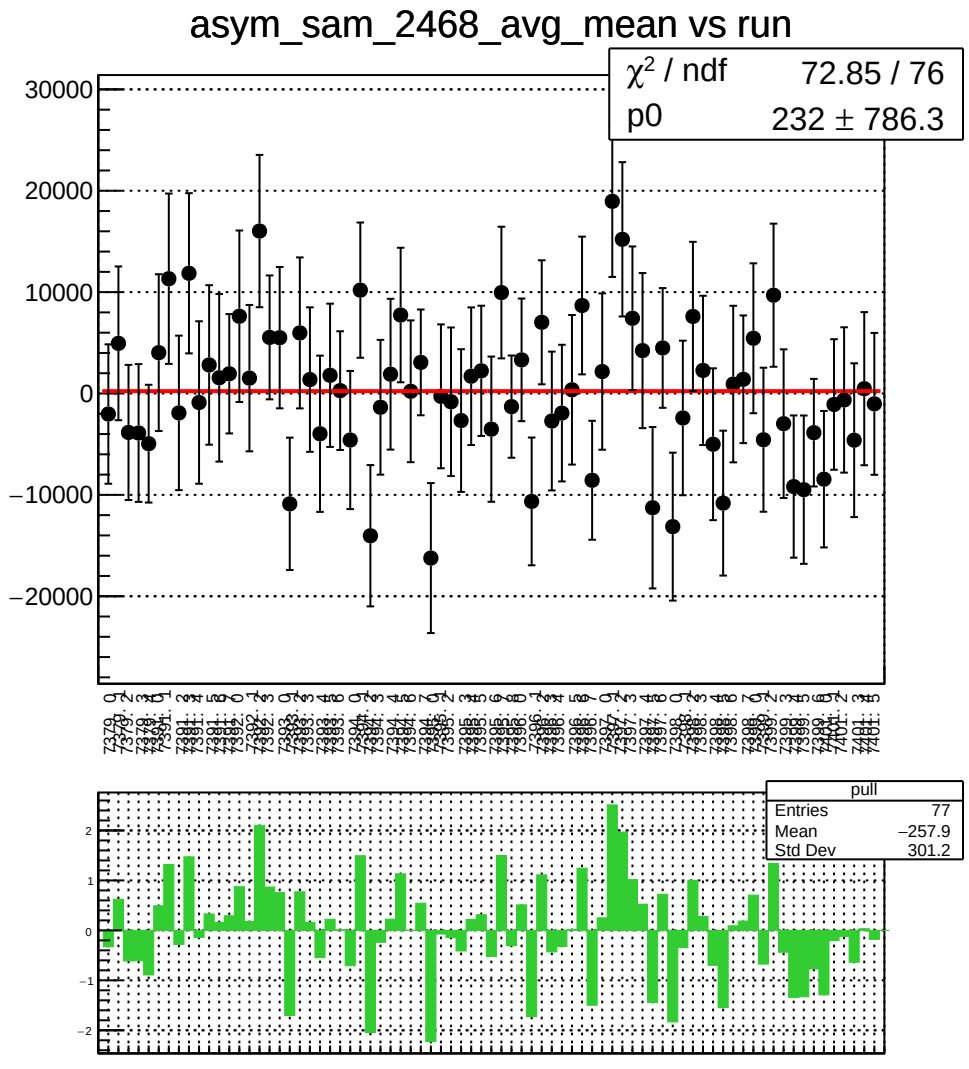

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 82.33 / 76
p0 26.88 ± 132.5
4000
2000
0
−2000
−4000
pull
Entries 77
Mean −387.1
Std Dev 428.8
3
2
1
0
−1
−2

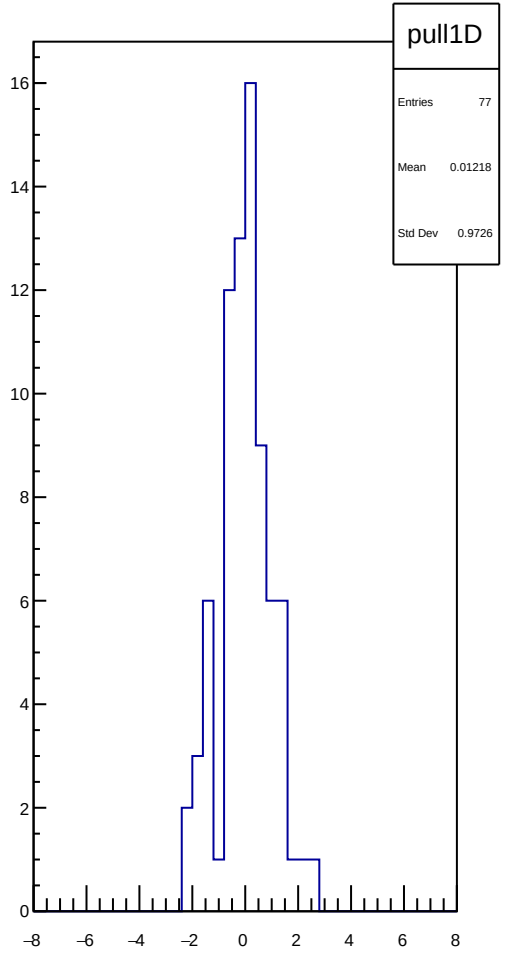

pull1D
Entries 77
Mean −0.003526
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

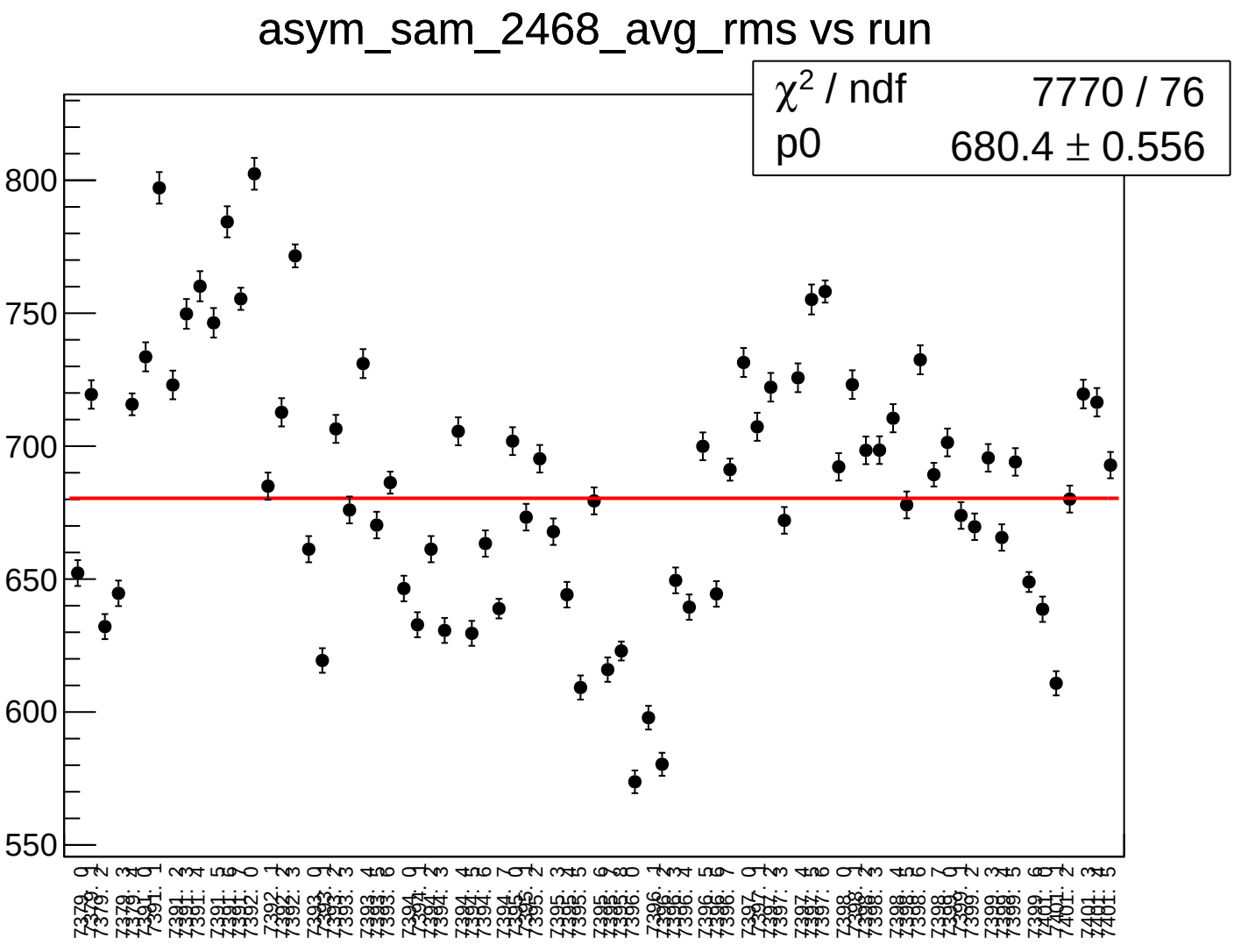

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.032e+04 / 76
p0 114.5 ± 0.09368
140
130
120
110
100
90
80

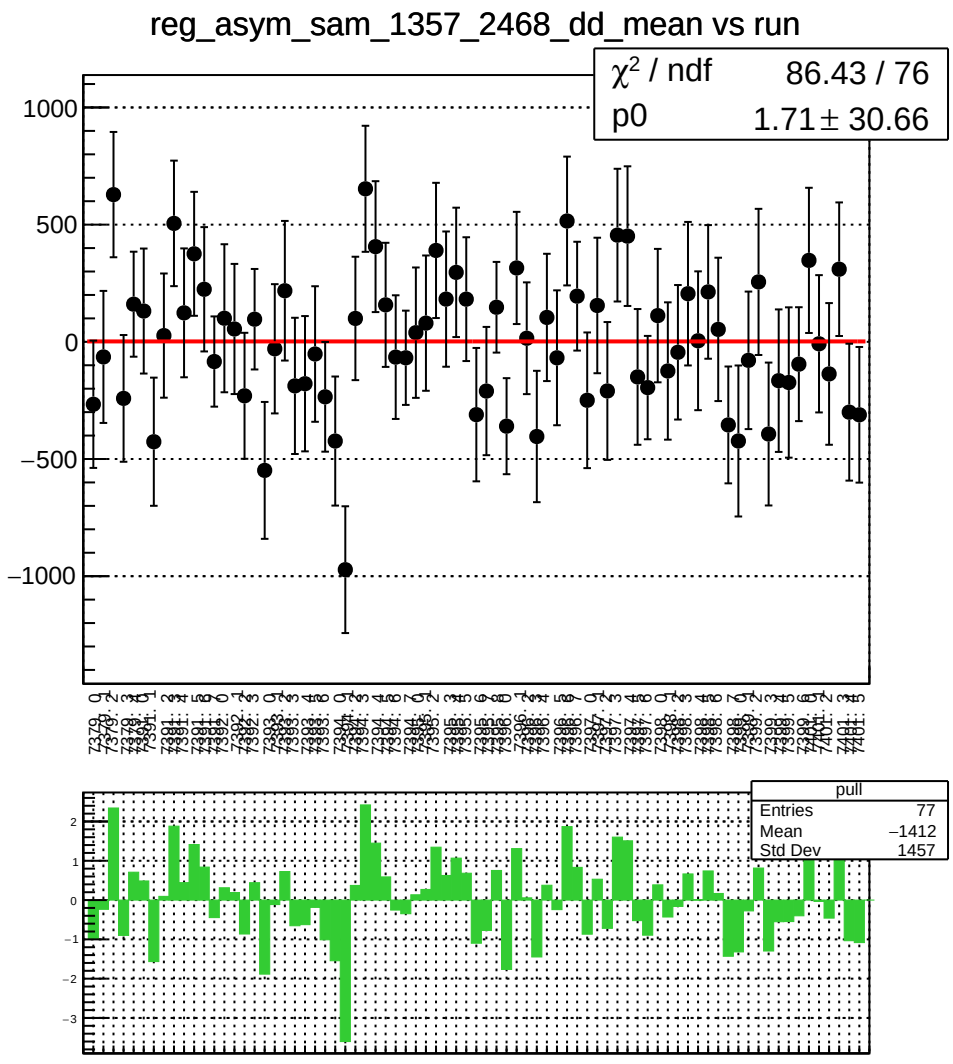

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 74.09 / 76
p0 −188.6 ± 774.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 77
Mean −243
Std Dev 286.3
2
1
0
−1
−2
pull1D
Entries 77
Mean −0.01385
Std Dev 0.9808
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

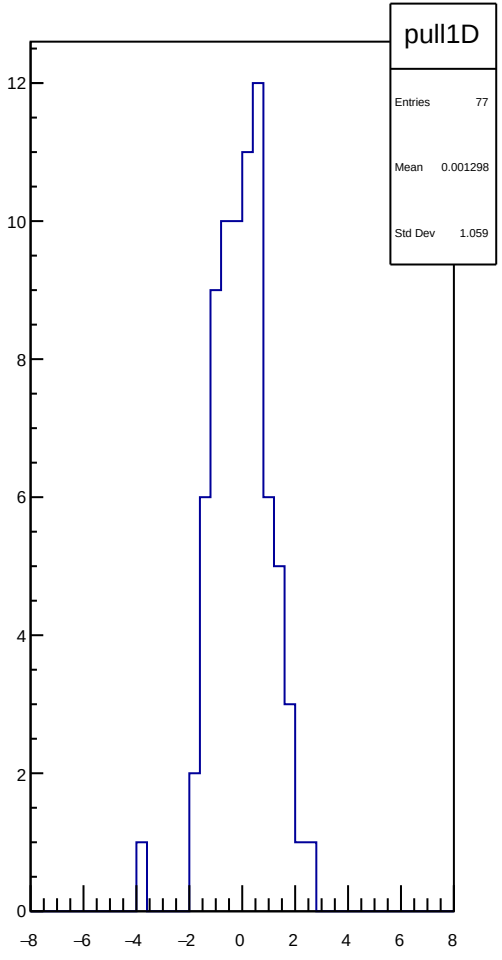

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 7985 / 76
p0 670.4 ± 0.5478
800
750
700
650
600
550

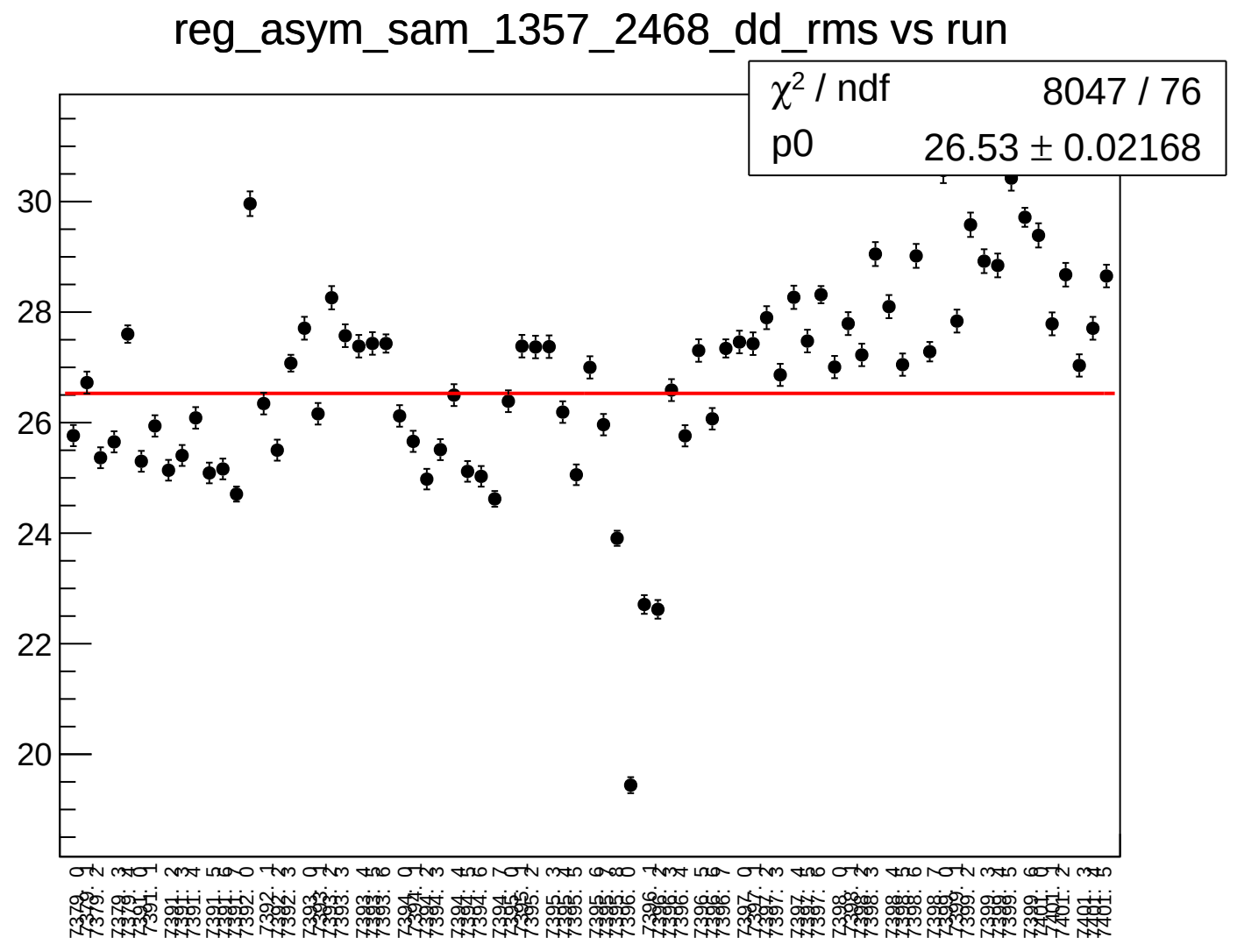

asym_sam_2468_avg_mean vs run
χ² / ndf 72.85 / 76
p0 232 ± 786.3
30000
20000
10000
0
−10000
−20000
pull
Entries 77
Mean −257.9
Std Dev 301.2
2
1
0
−1
−2

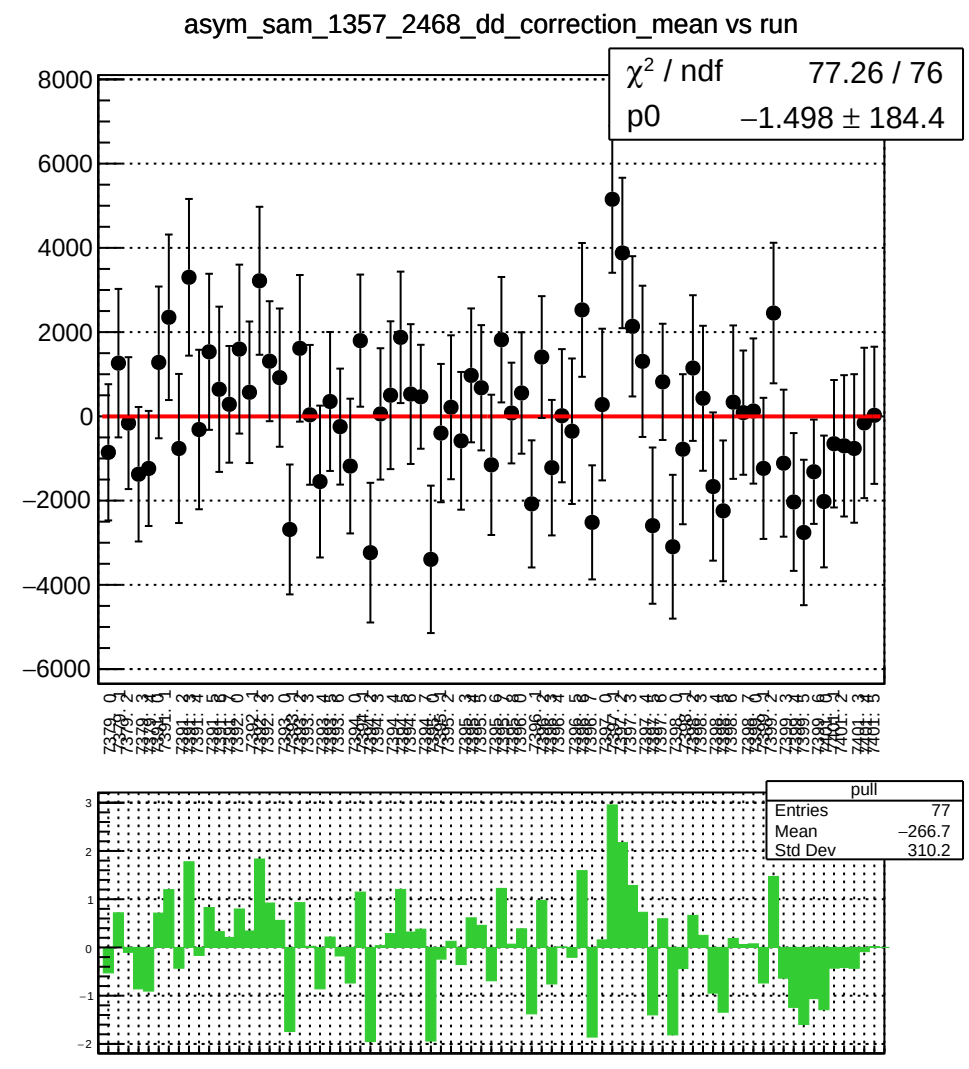

pull1D
Entries 77
Mean 0.01218
Std Dev 0.9726
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

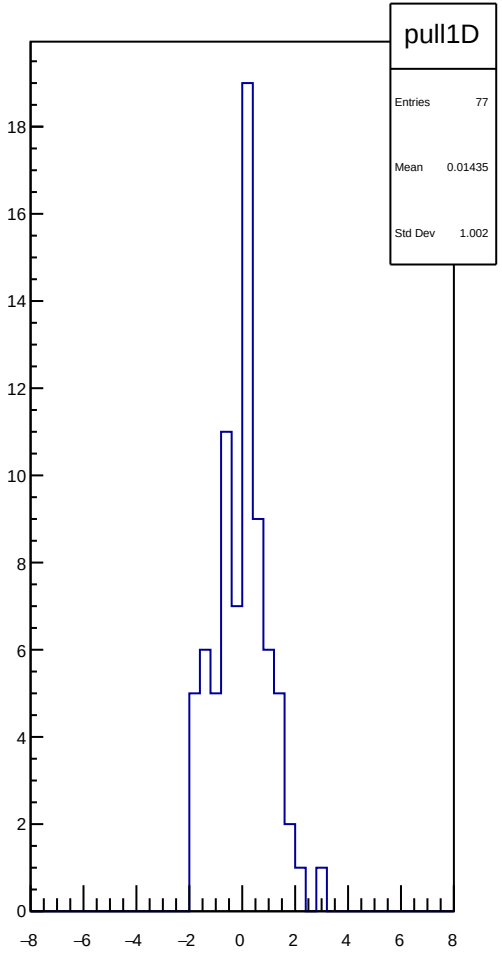

asym_sam_2468_avg_rms vs run
χ² / ndf 7770 / 76
p0 680.4 ± 0.556
800
750
700
650
600
550

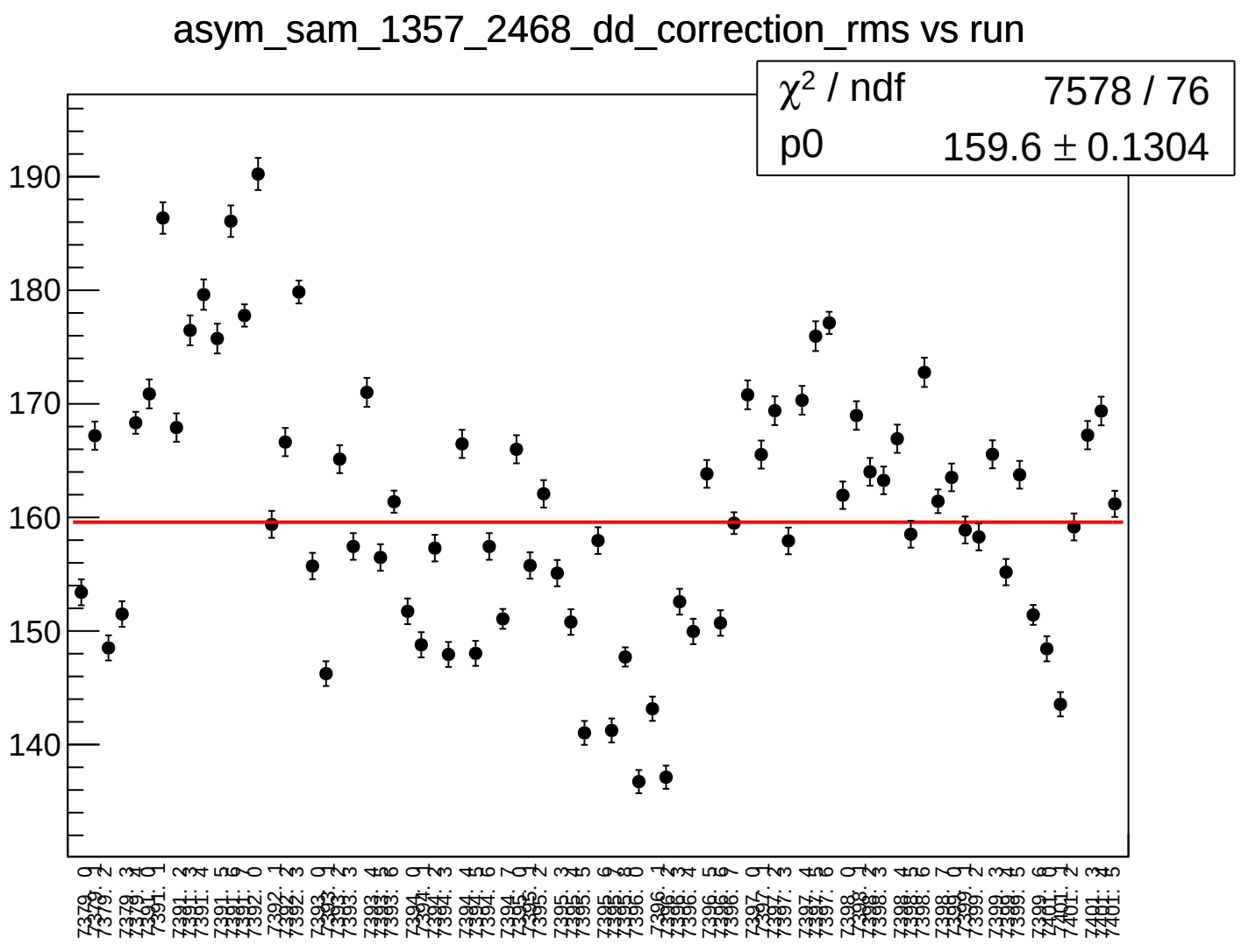

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 86.43 / 76
p0 1.71 ± 30.66
1000
500
0
−500
−1000
pull
Entries 77
Mean −1412
Std Dev 1457
2
1
0
−1
−2
−3

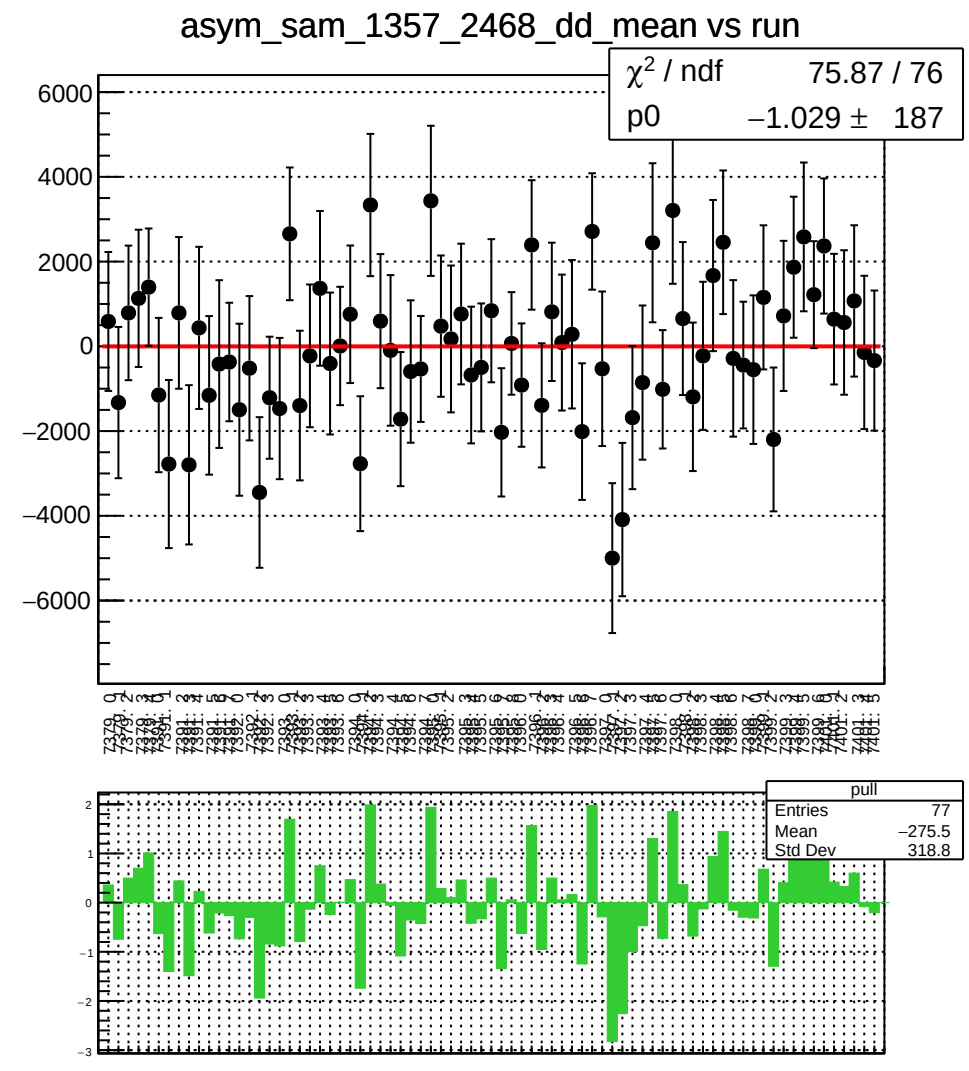

pull1D
Entries 77
Mean 0.001298
Std Dev 1.059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

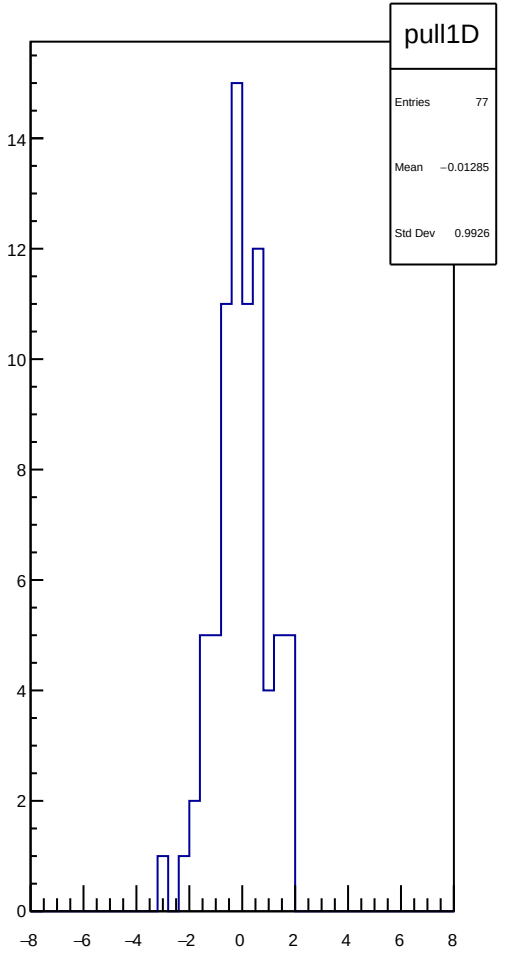

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 8047 / 76
p0 26.53 ± 0.02168
30
28
26
24
22
20

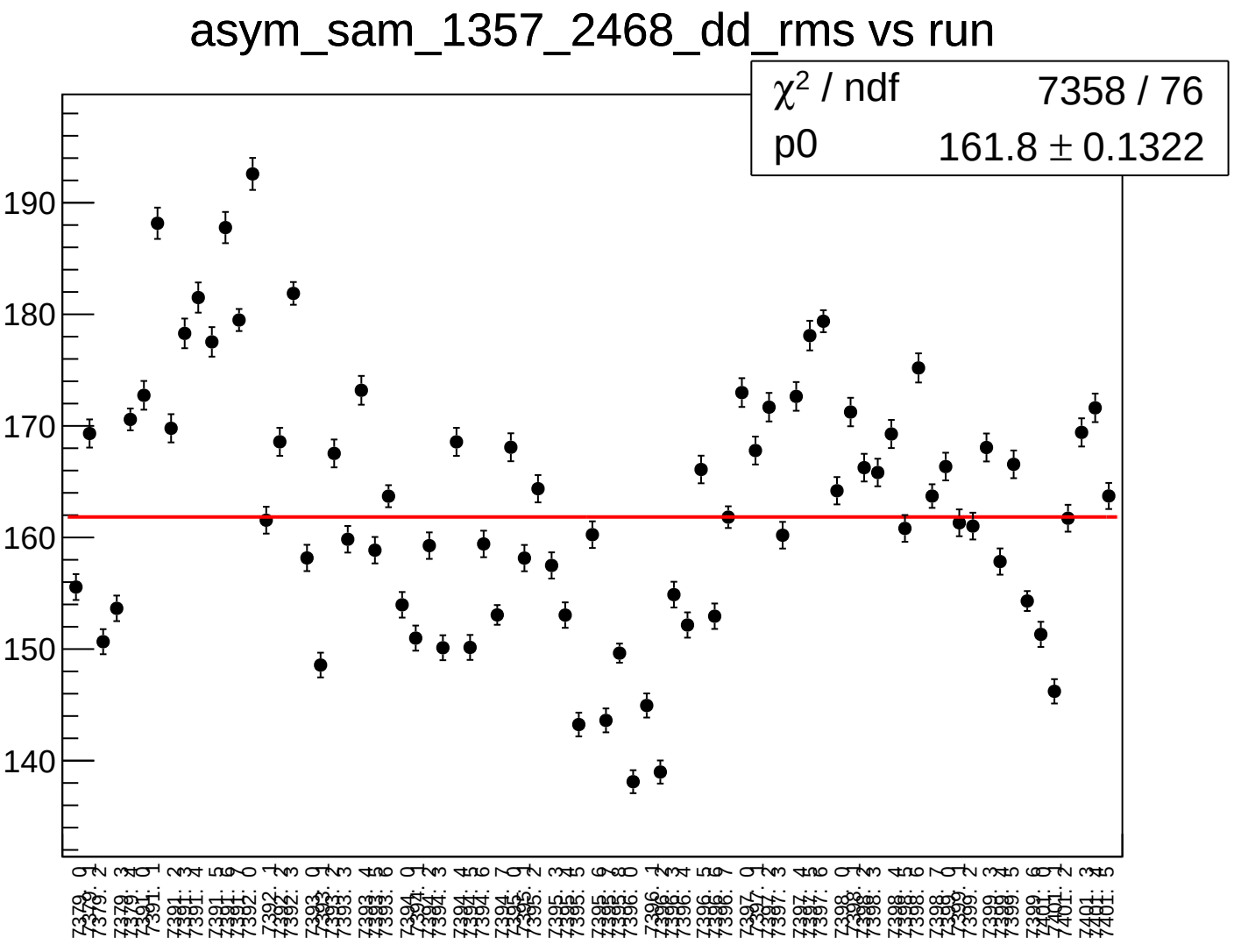

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 77.26 / 76
p0 −1.498 ± 184.4
pull
Entries 77
Mean −266.7
Std Dev 310.2

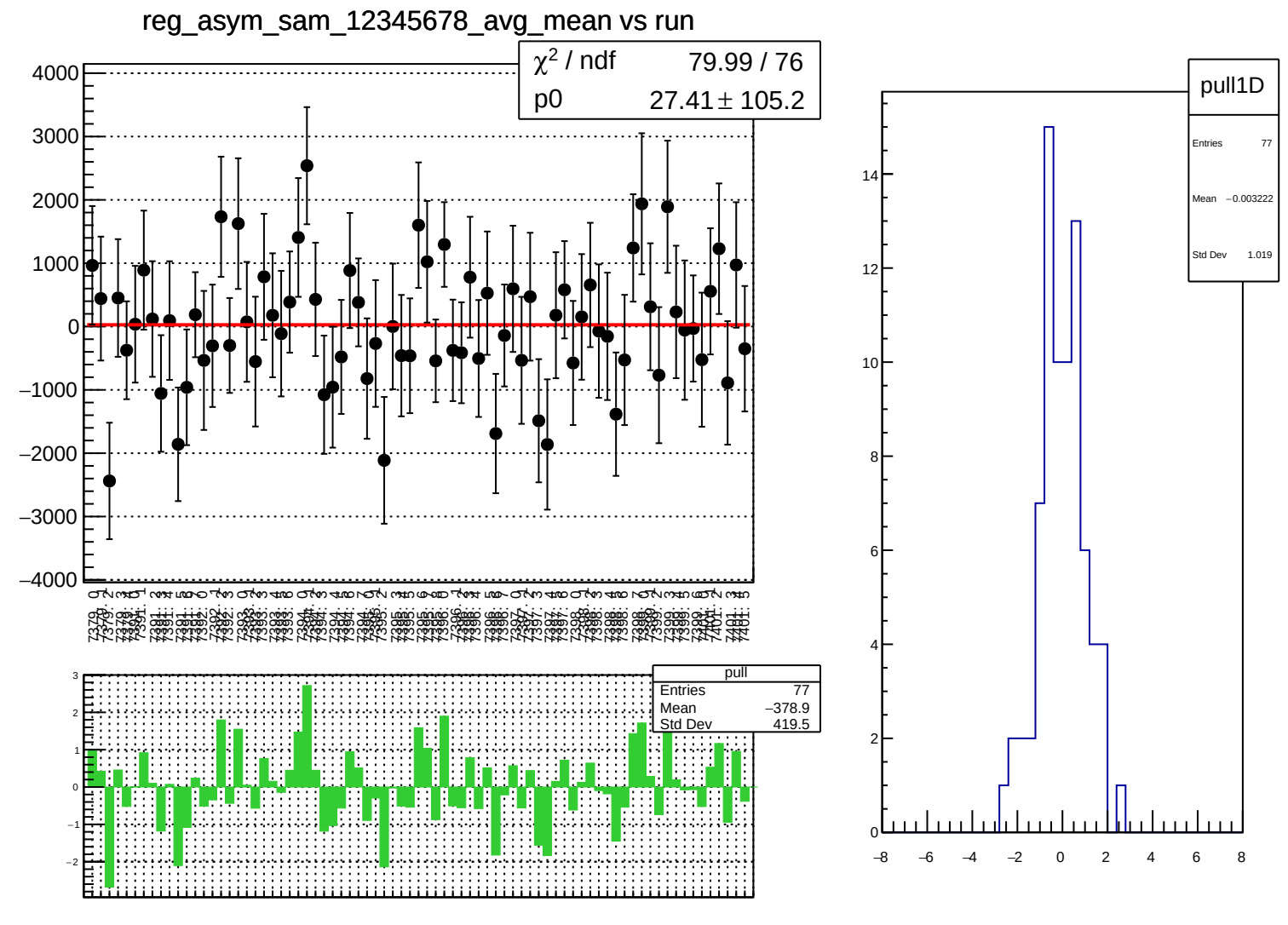

pull1D
Entries 77
Mean 0.01435
Std Dev 1.002

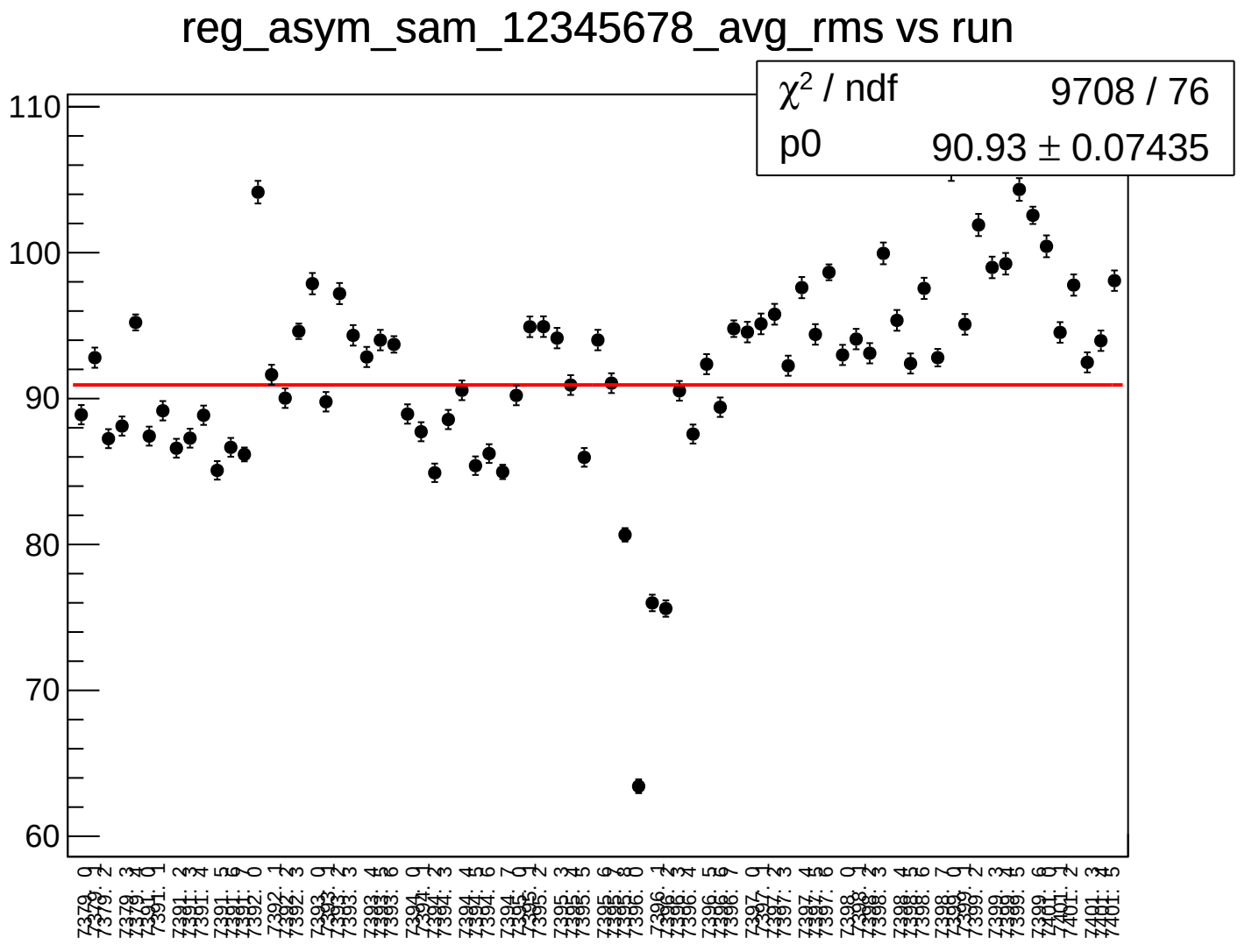

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 7578 / 76
p0 159.6 ± 0.1304
190
180
170
160
150
140

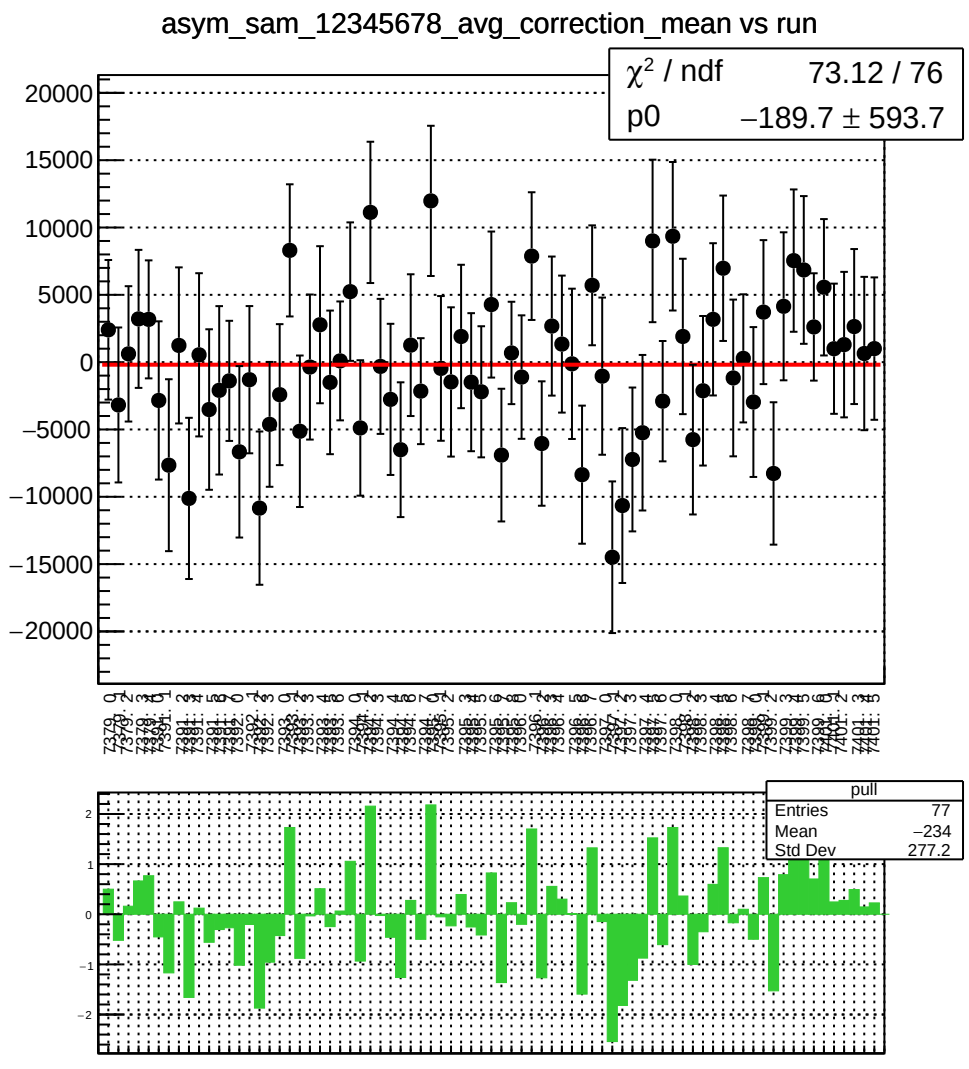

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 75.87 / 76
p0 −1.029 ± 187
pull
Entries 77
Mean −275.5
Std Dev 318.8

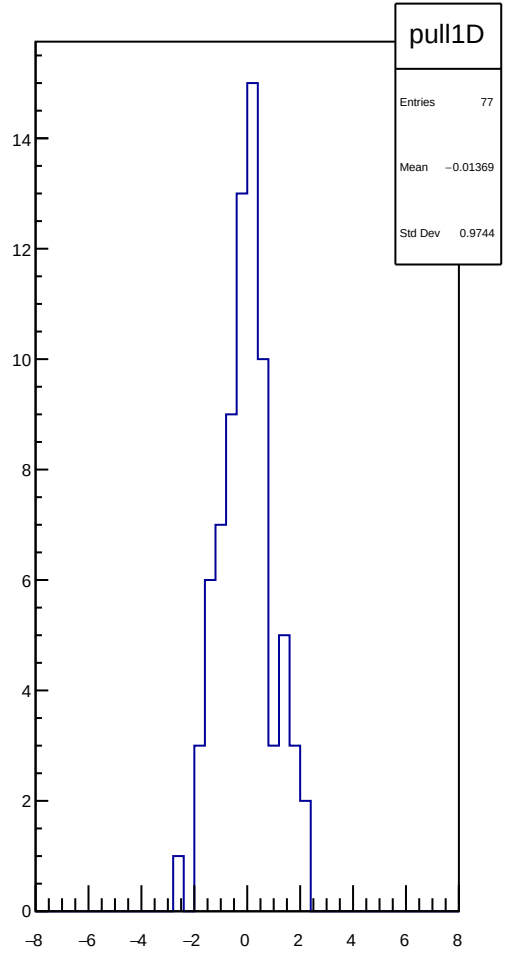

pull1D
Entries 77
Mean −0.01285
Std Dev 0.9926

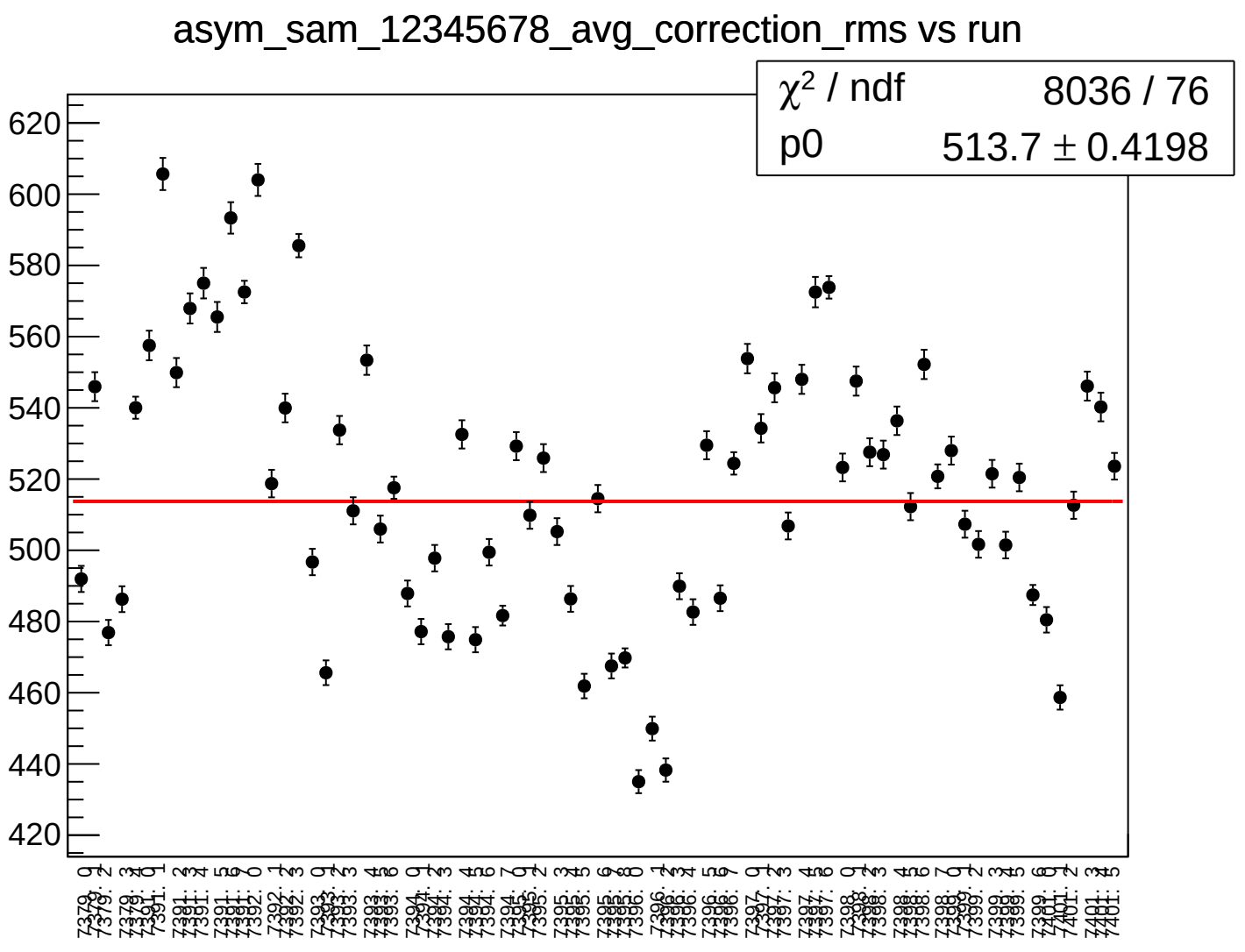

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7358 / 76
p0 161.8 ± 0.1322
190
180
170
160
150
140

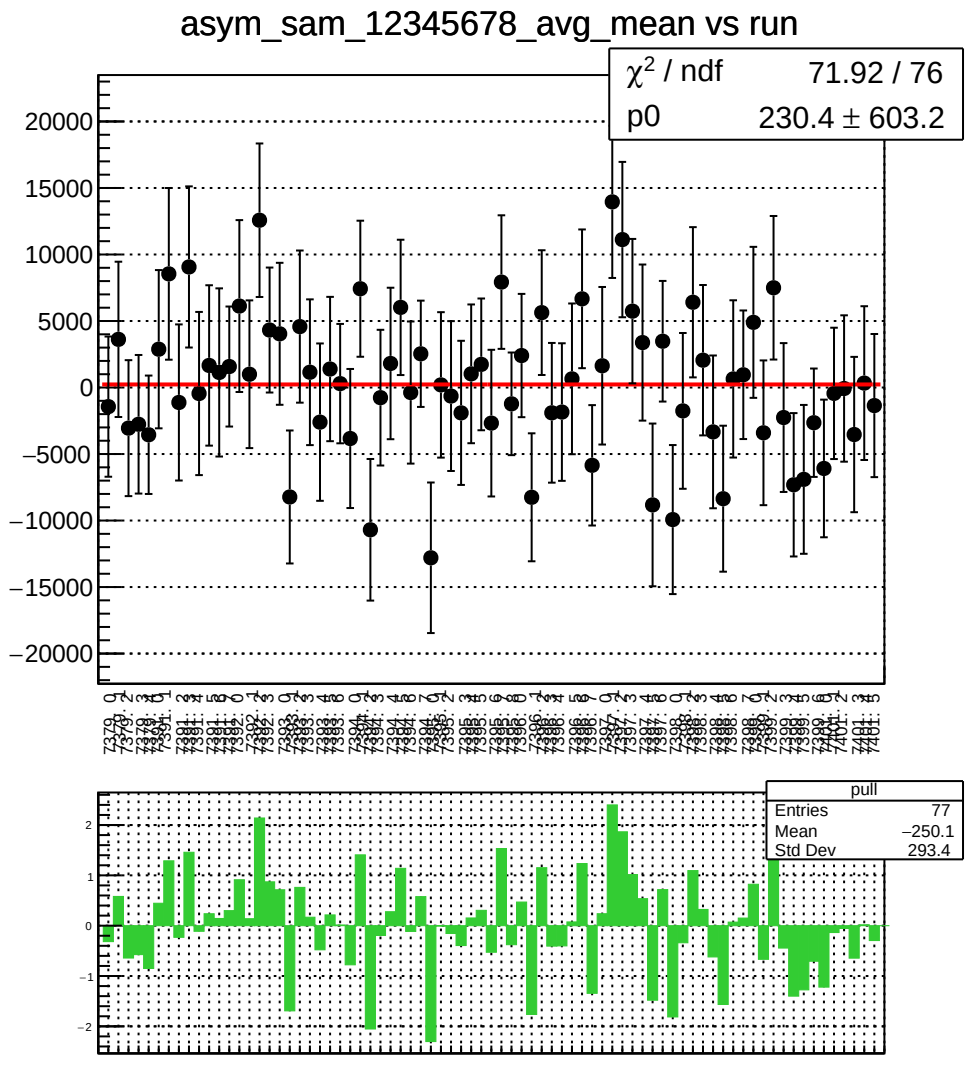

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 79.99 / 76
p0 27.41 ± 105.2
pull
Entries 77
Mean −378.9
Std Dev 419.5
pull1D
Entries 77
Mean −0.003222
Std Dev 1.019

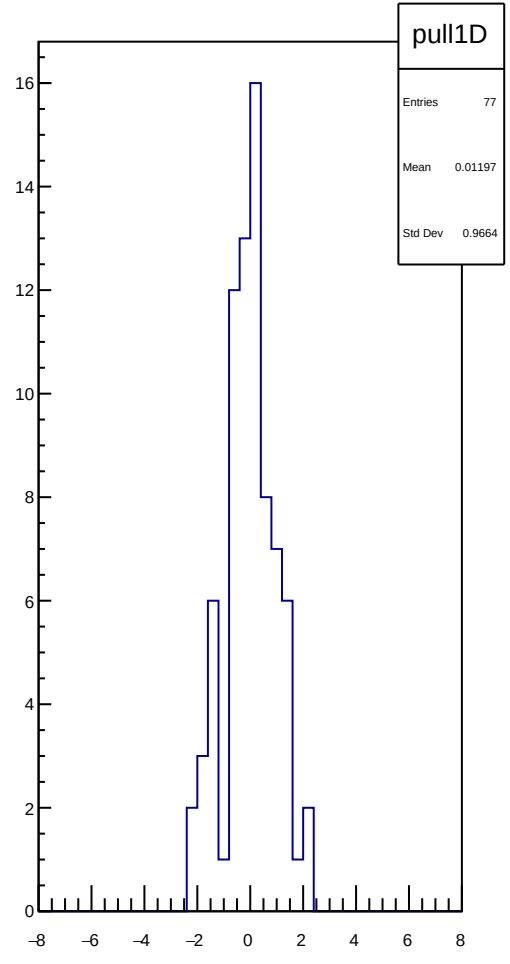

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 9708 / 76
p0 90.93 ± 0.07435
110
100
90
80
70
60

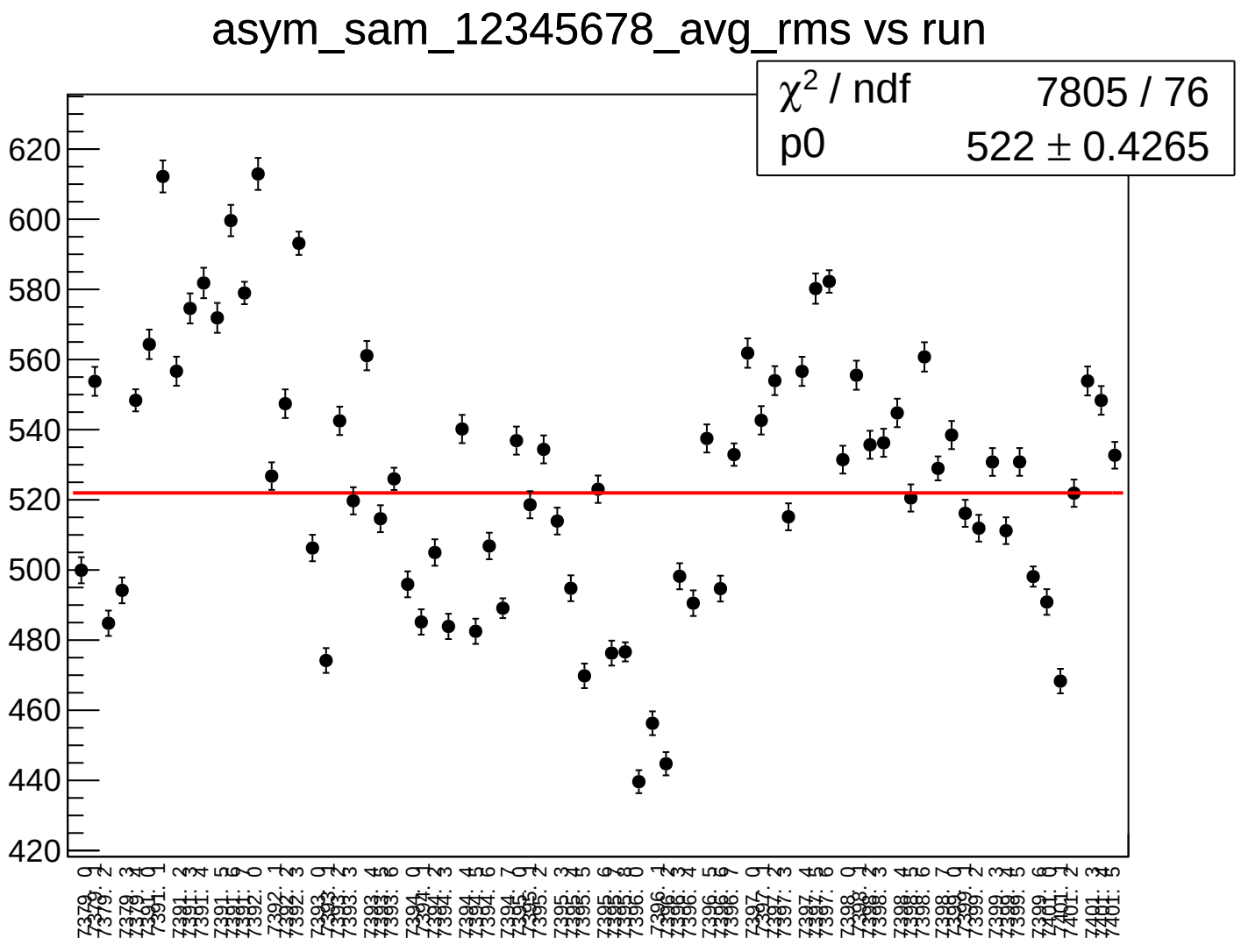

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 73.12 / 76
p0 −189.7 ± 593.7
pull
Entries 77
Mean −234
Std Dev 277.2

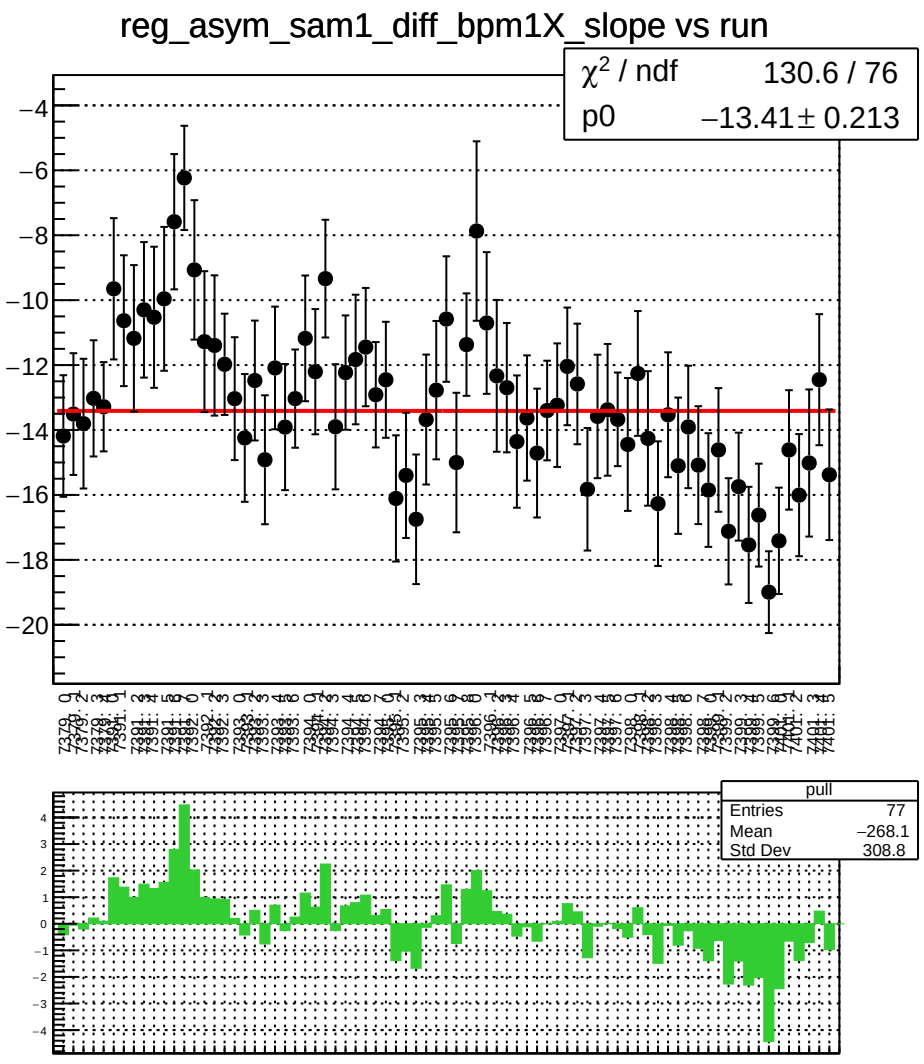

pull1D
Entries 77
Mean −0.01369
Std Dev 0.9744

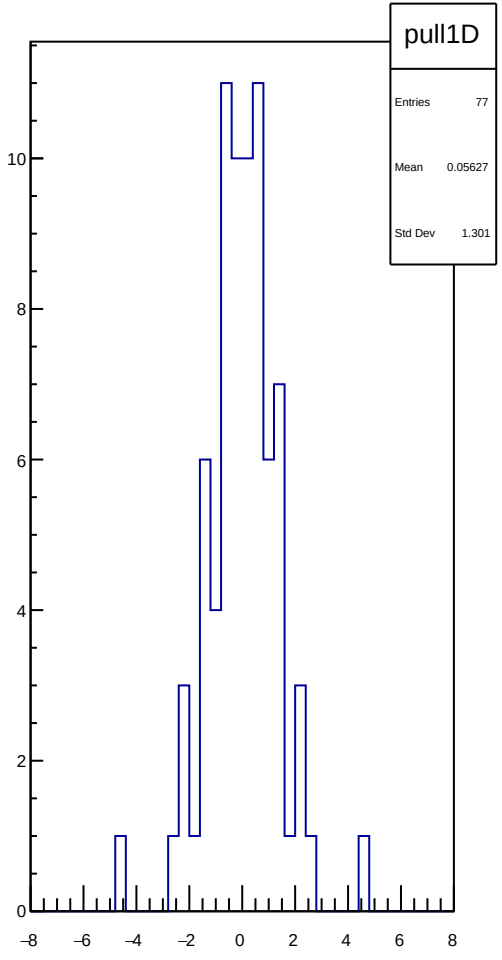

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 8036 / 76
p0 513.7 ± 0.4198
620
600
580
560
540
520
500
480
460
440
420

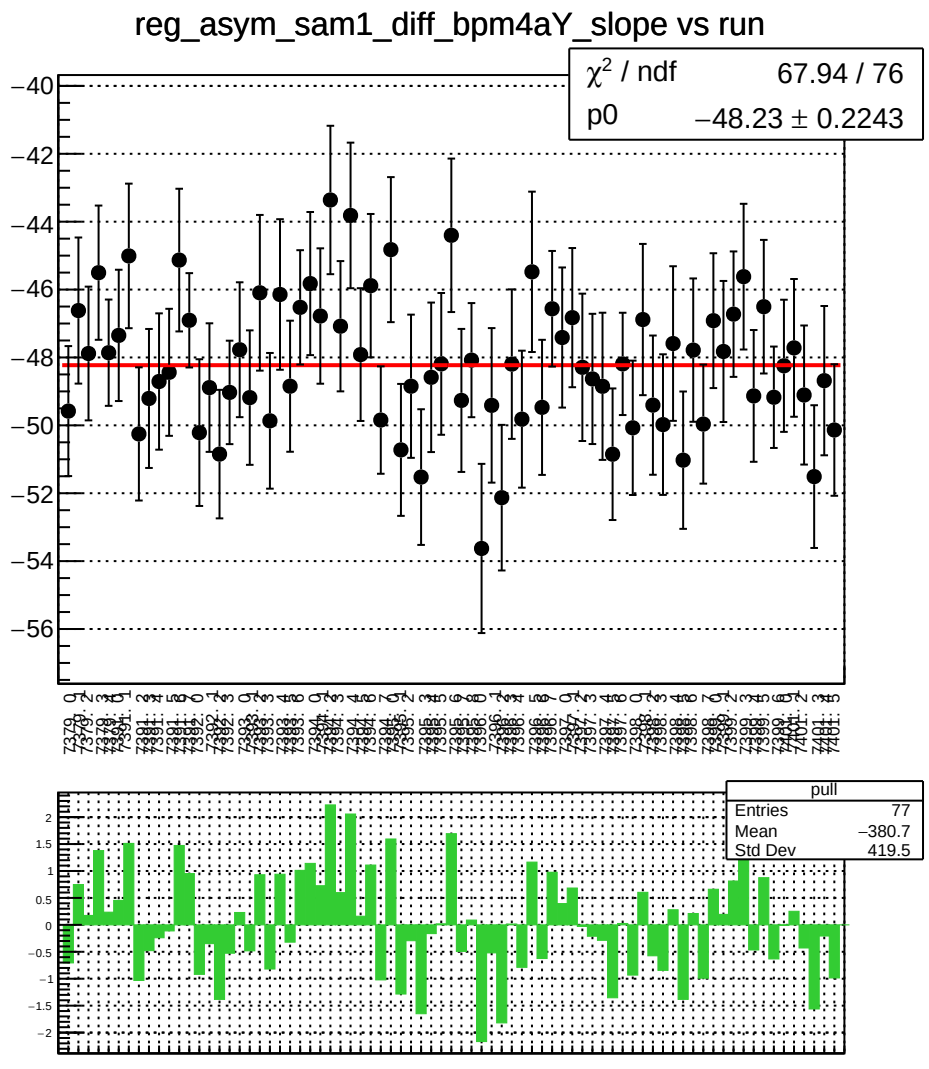

asym_sam_12345678_avg_mean vs run
χ² / ndf 71.92 / 76
p0 230.4 ± 603.2
pull
Entries 77
Mean −250.1
Std Dev 293.4

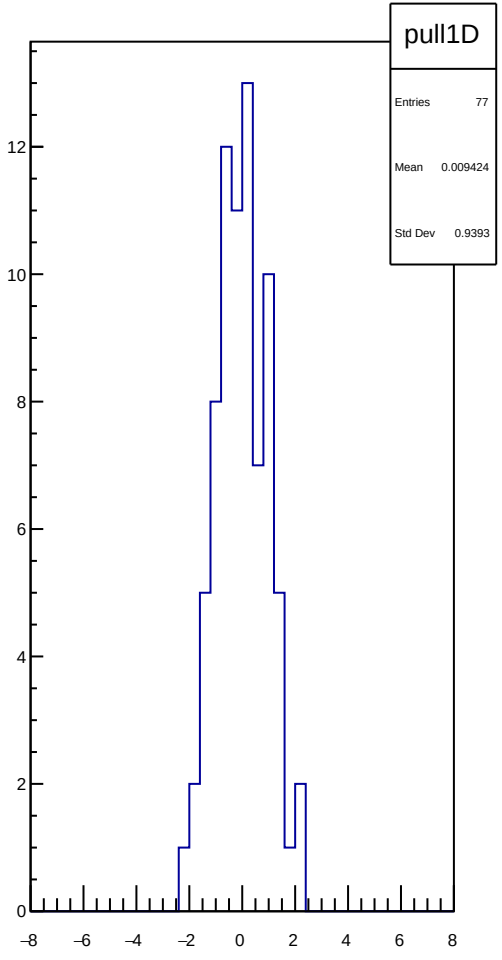

pull1D
Entries 77
Mean 0.01197
Std Dev 0.9664

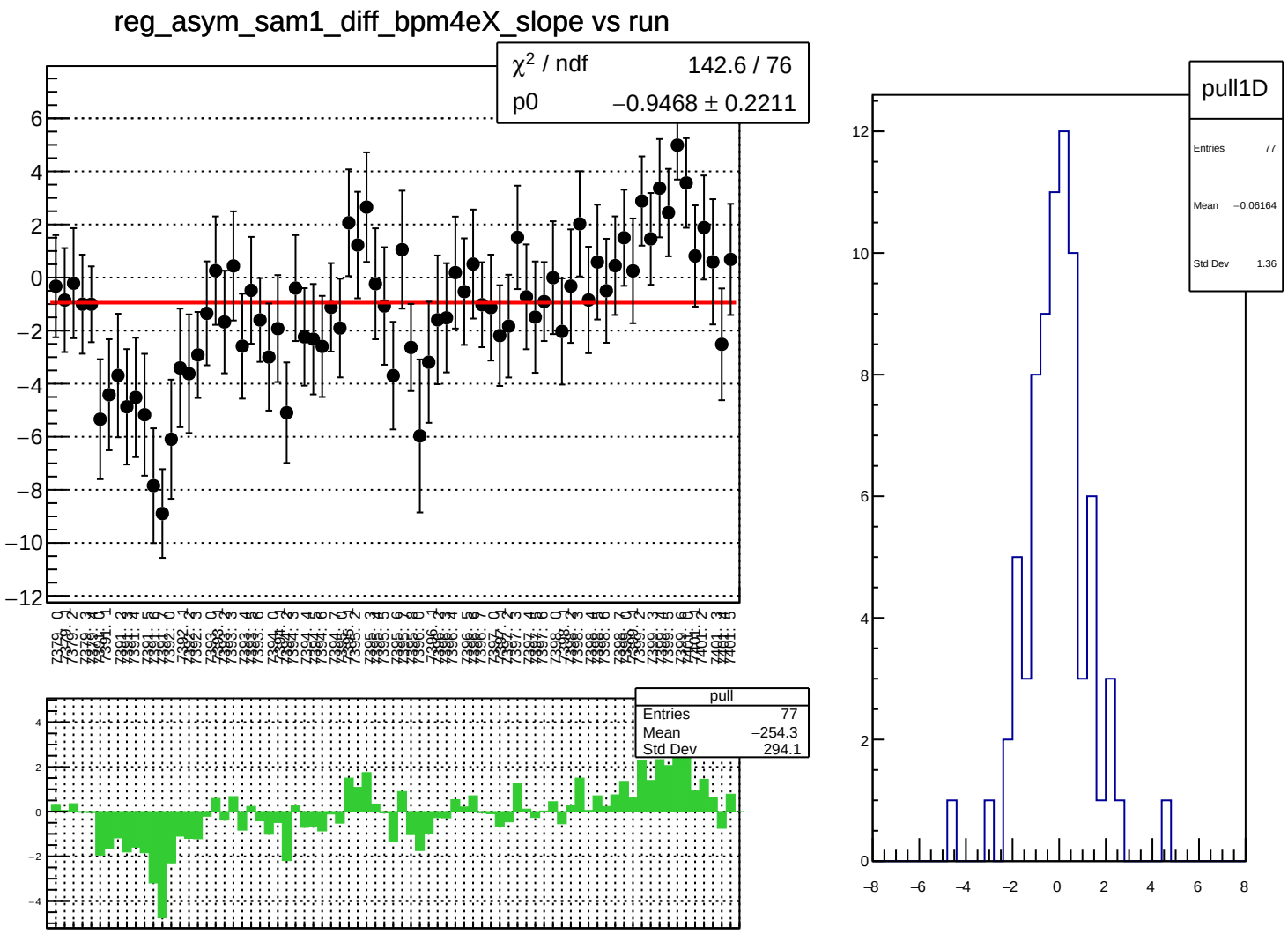

asym_sam_12345678_avg_rms vs run
χ² / ndf 7805 / 76
p0 522 ± 0.4265
620
600
580
560
540
520
500
480
460
440
420

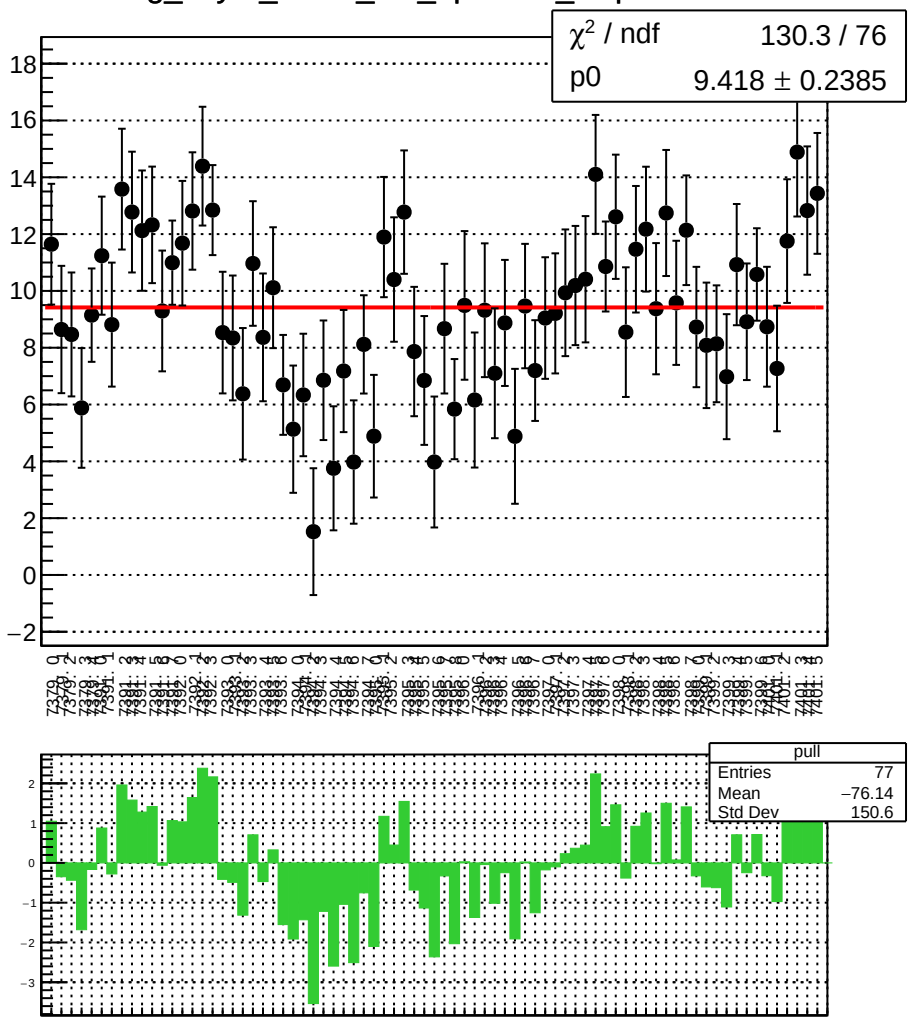

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 130.6 / 76
p0 −13.41 ± 0.213
pull
Entries 77
Mean −268.1
Std Dev 308.8

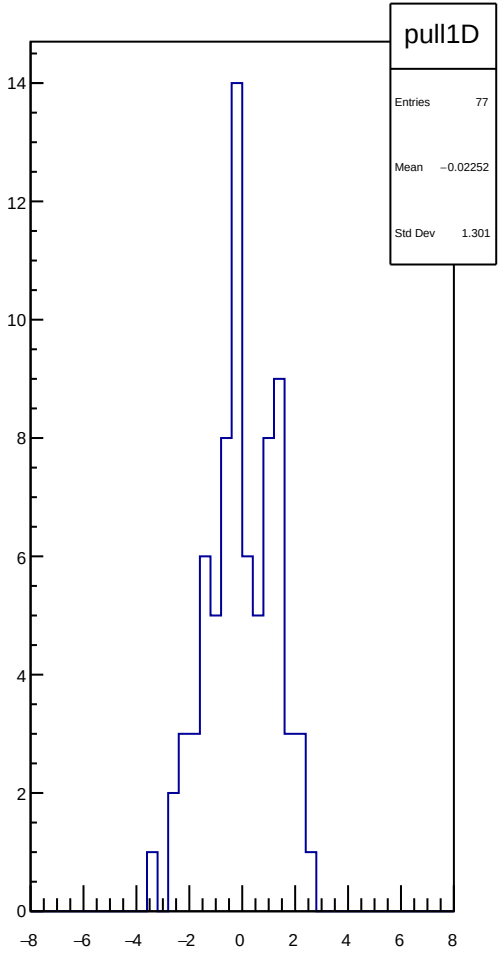

pull1D
Entries 77
Mean 0.05627
Std Dev 1.301

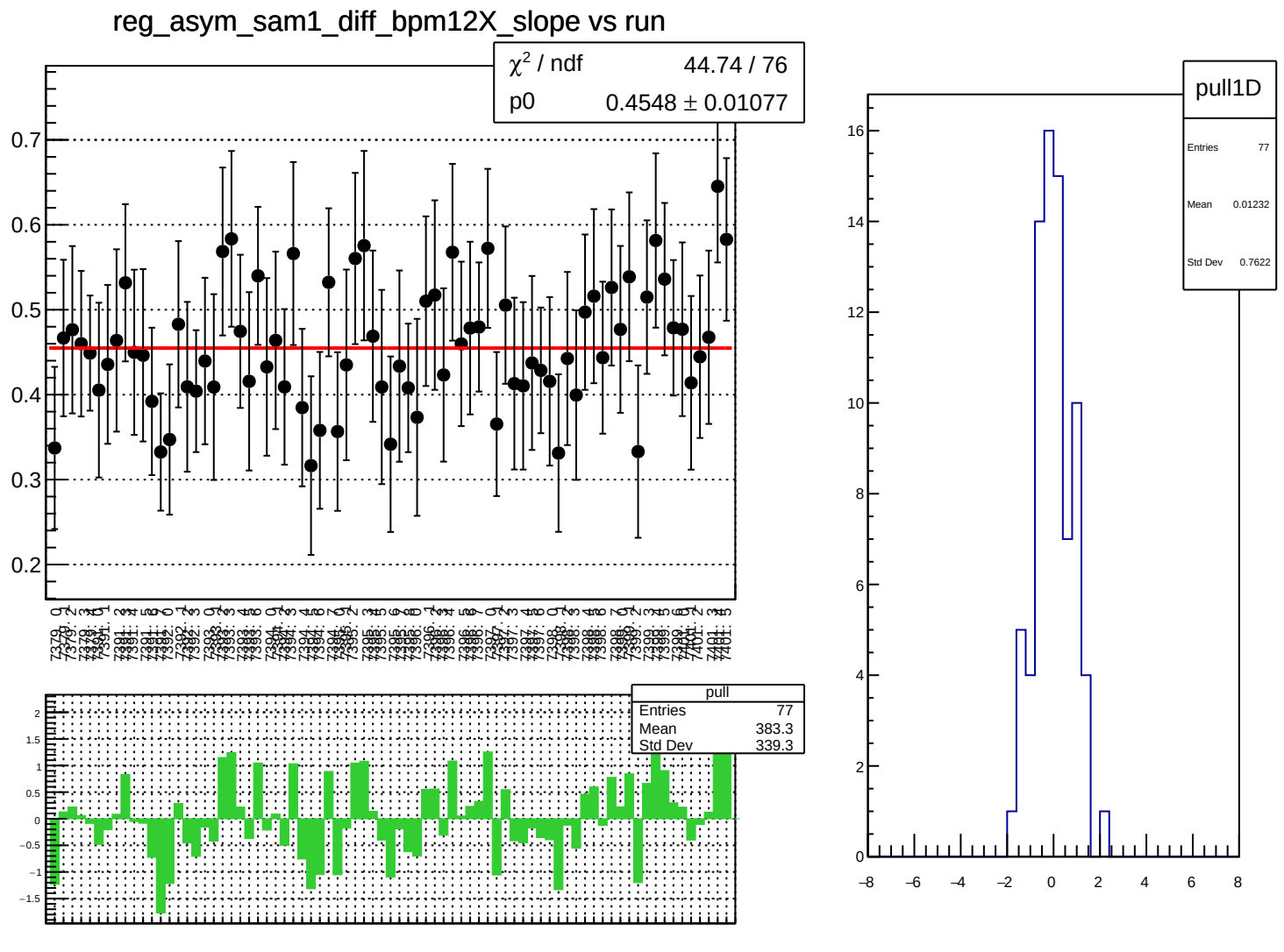

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 67.94 / 76
p0 −48.23 ± 0.2243
pull
Entries 77
Mean −380.7
Std Dev 419.5

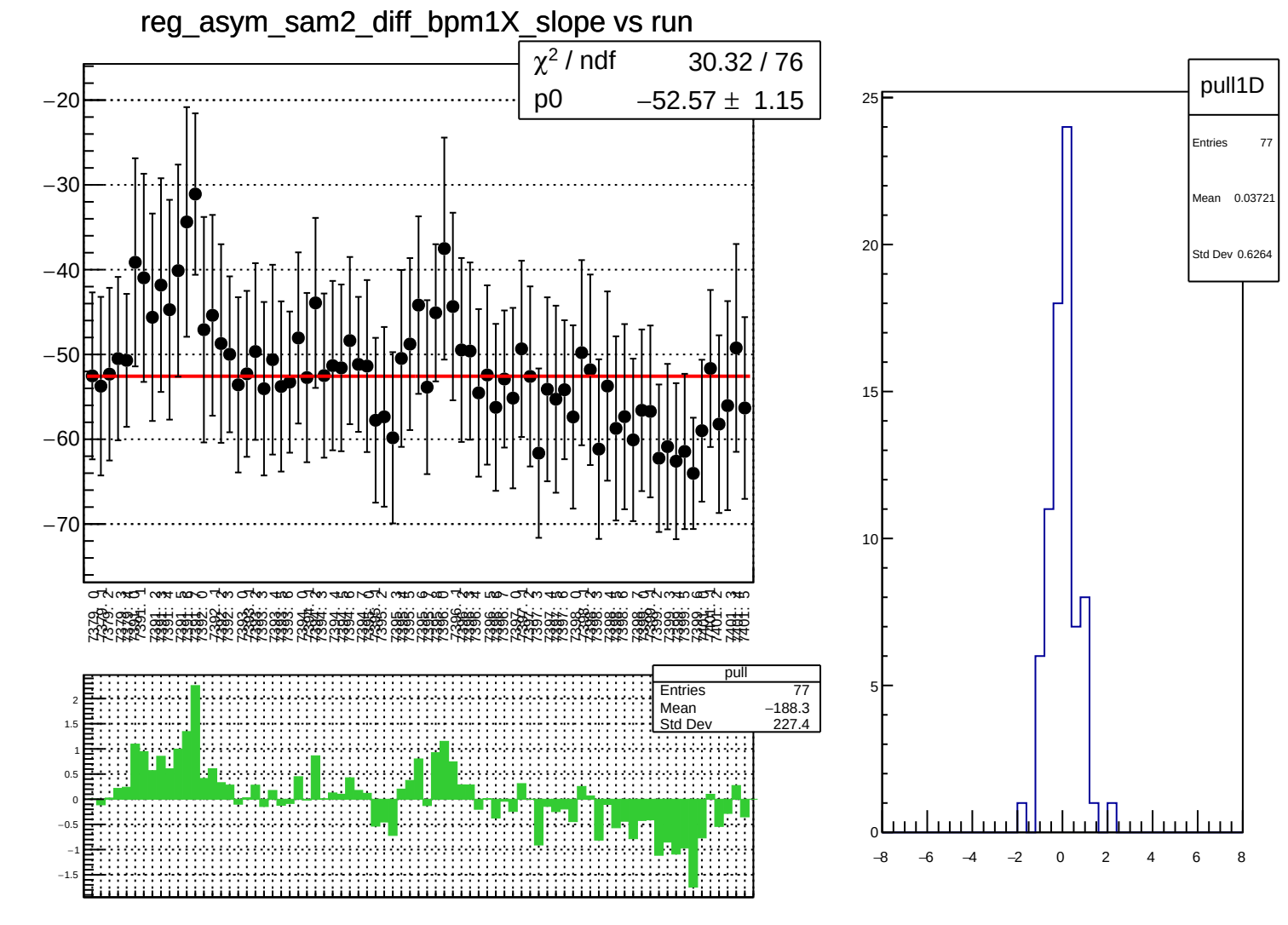

pull1D
Entries 77
Mean 0.009424
Std Dev 0.9393

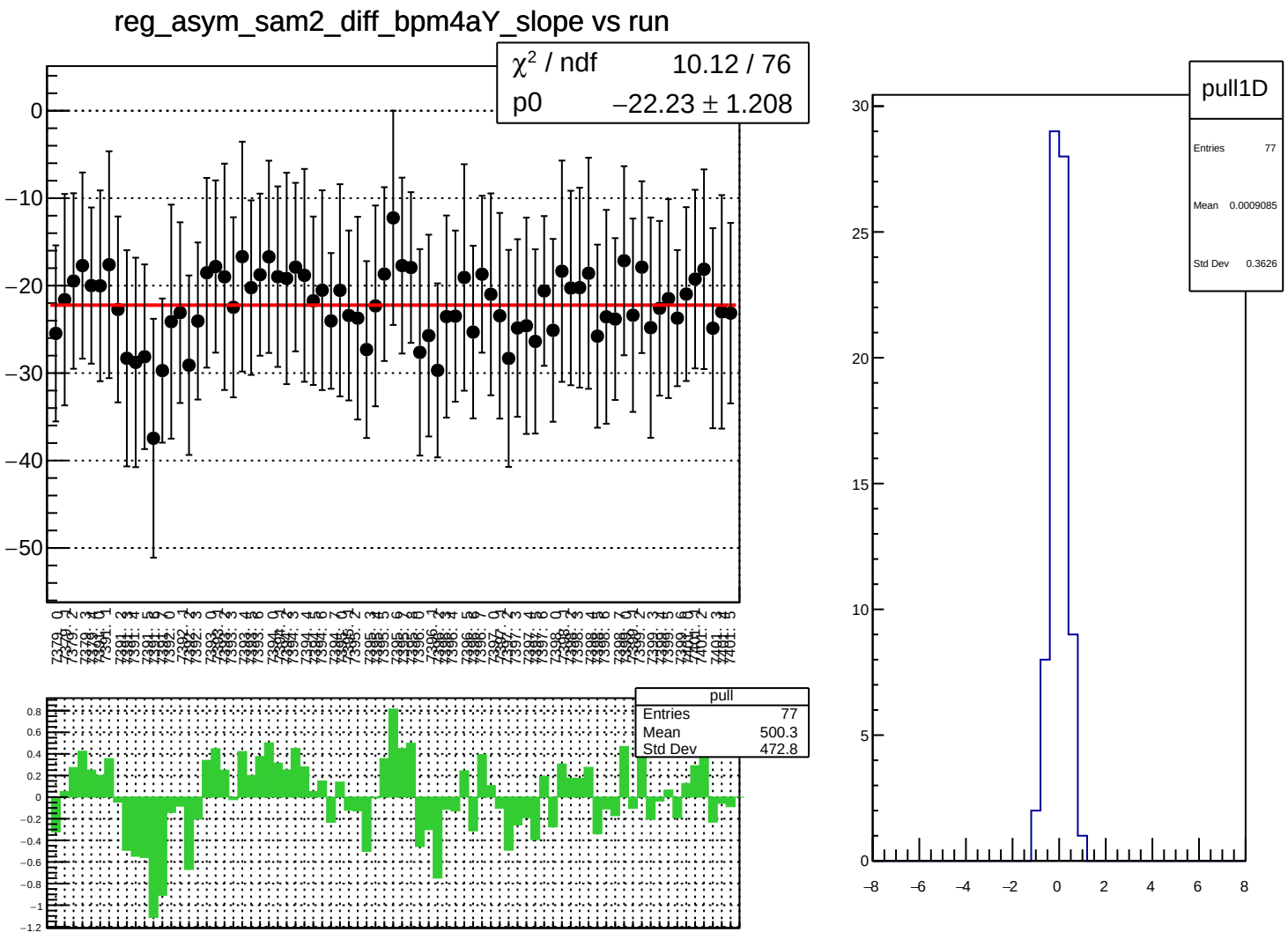

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 142.6 / 76
p0 −0.9468 ± 0.2211
pull
Entries 77
Mean −254.3
Std Dev 294.1
pull1D
Entries 77
Mean −0.06164
Std Dev 1.36

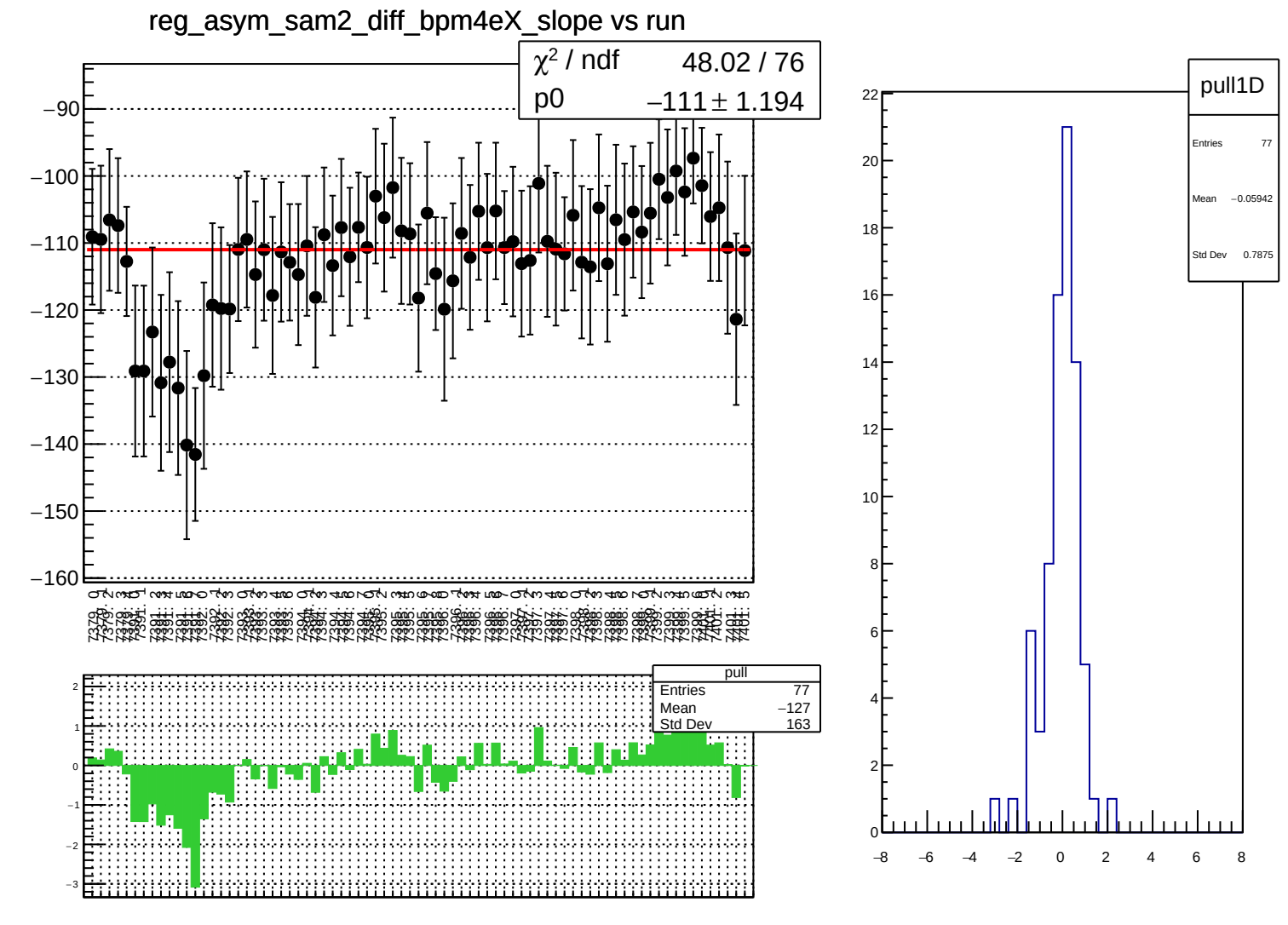

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 130.3 / 76
p0 9.418 ± 0.2385
pull
Entries 77
Mean −76.14
Std Dev 150.6

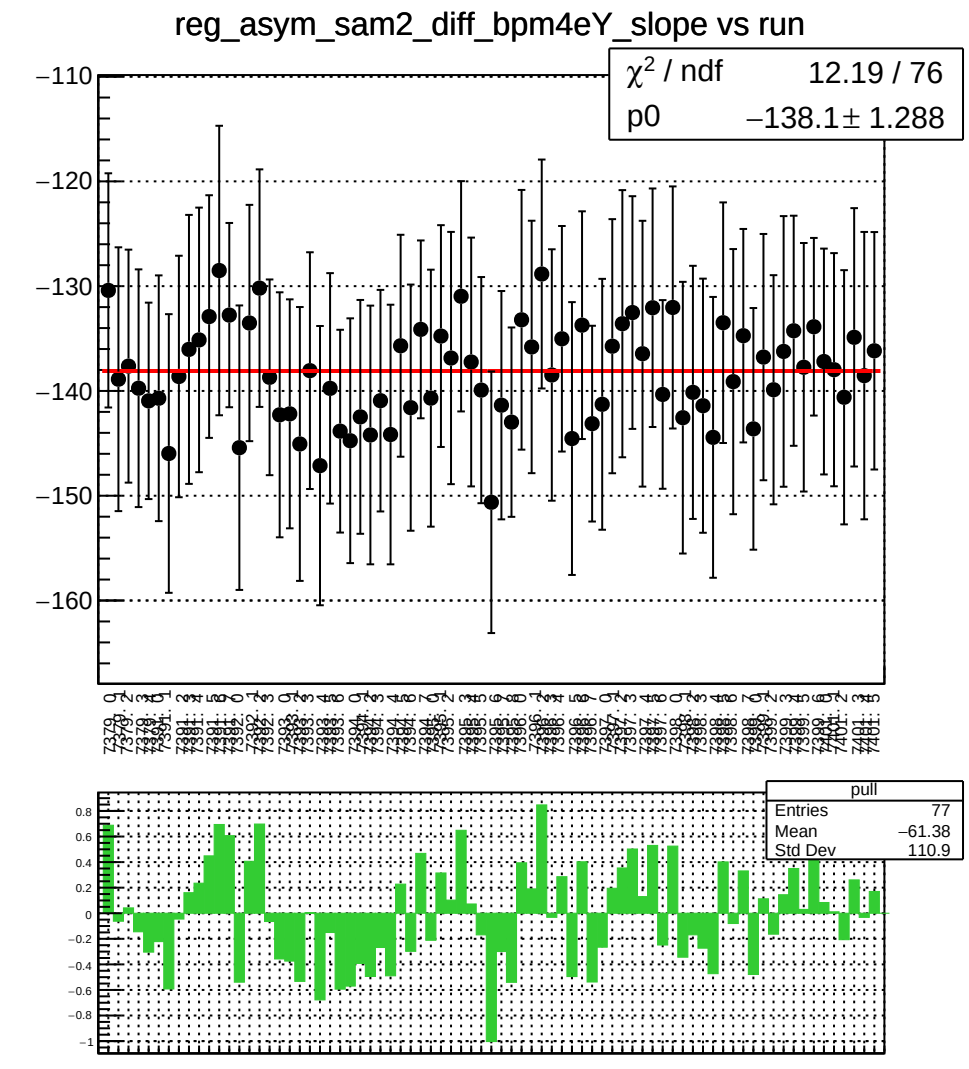

pull1D
Entries 77
Mean −0.02252
Std Dev 1.301

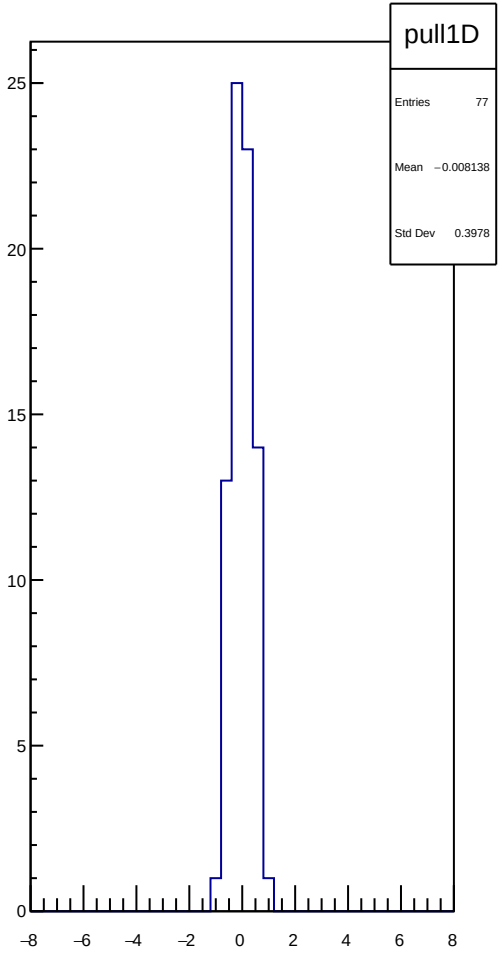

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 44.74 / 76
p0 0.4548 ± 0.01077
pull
Entries 77
Mean 383.3
Std Dev 339.3
pull1D
Entries 77
Mean 0.01232
Std Dev 0.7622

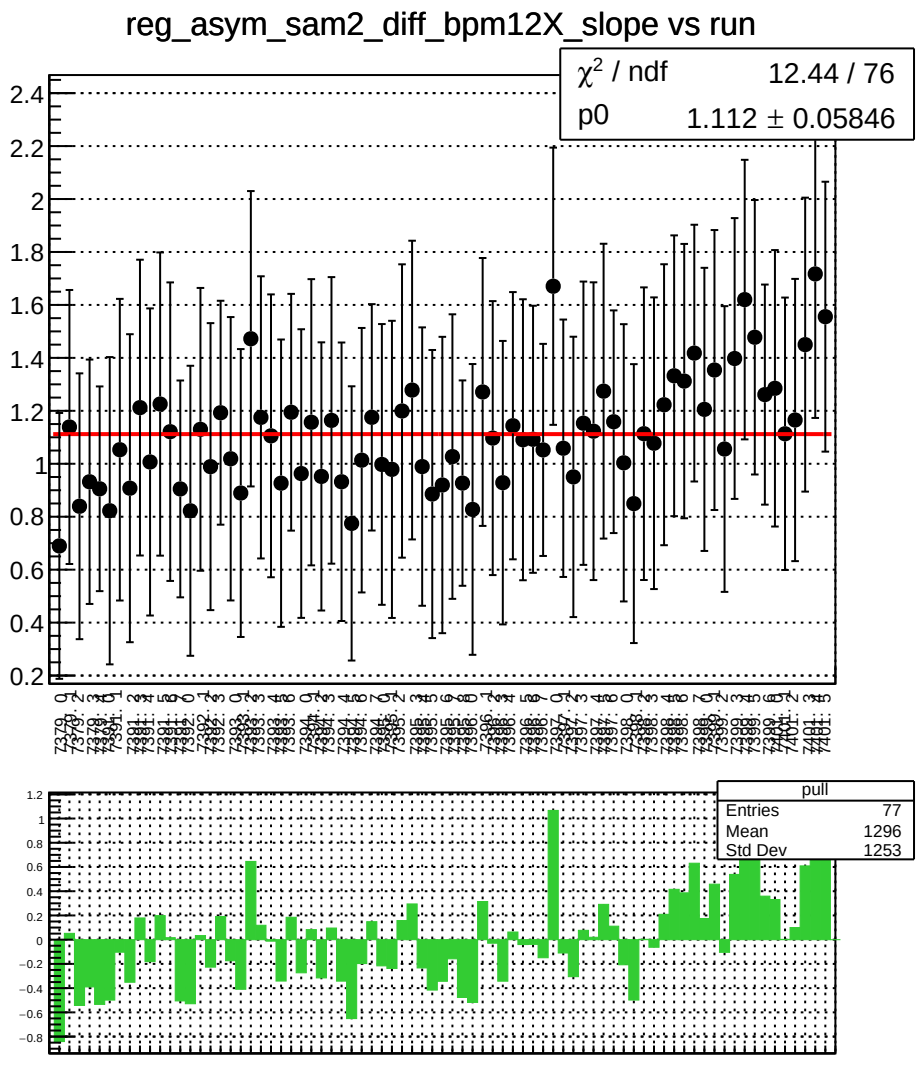

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 30.32 / 76
p0 −52.57 ± 1.15
pull
Entries 77
Mean −188.3
Std Dev 227.4
pull1D
Entries 77
Mean 0.03721
Std Dev 0.6264

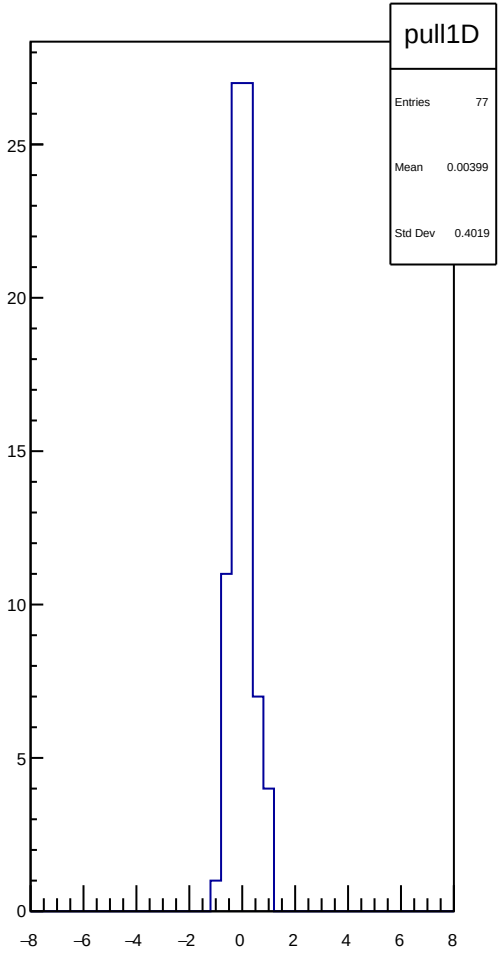

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 10.12 / 76
p0 −22.23 ± 1.208
pull
Entries 77
Mean 500.3
Std Dev 472.8
pull1D
Entries 77
Mean 0.0009085
Std Dev 0.3626

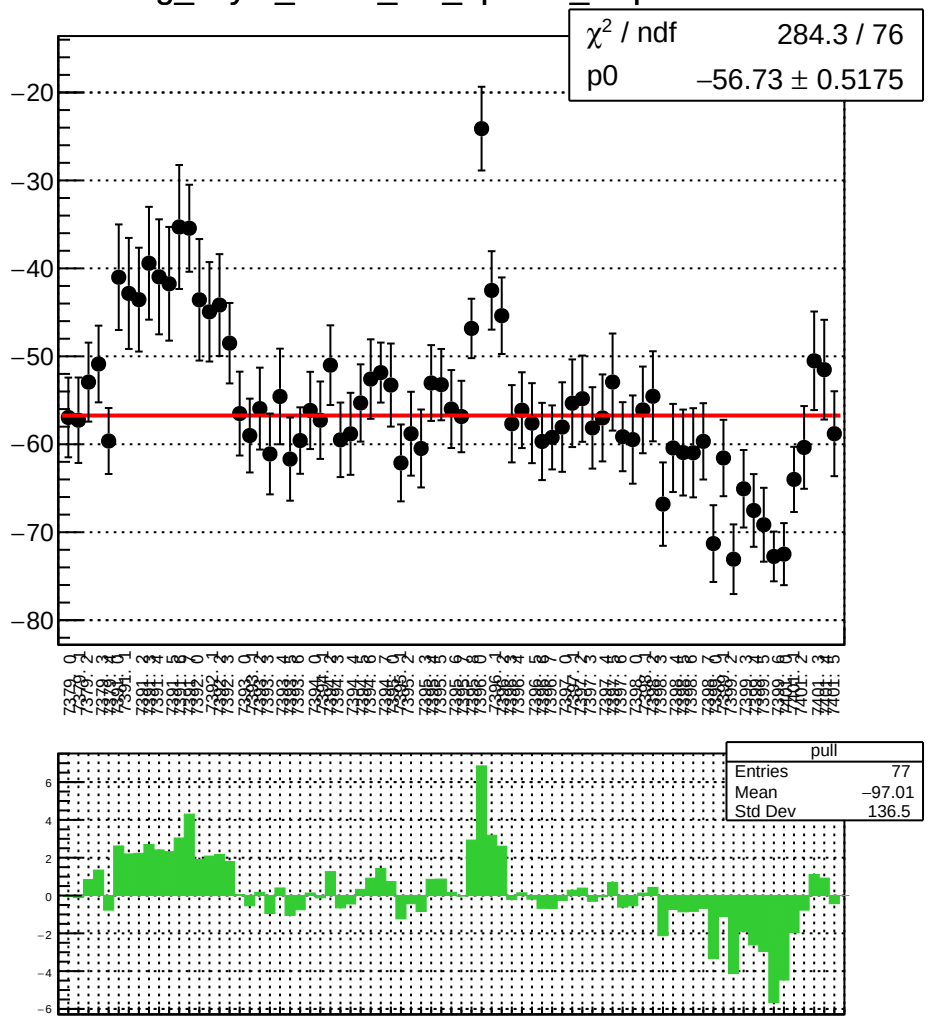

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 48.02 / 76
p0 −111 ± 1.194
pull
Entries 77
Mean −127
Std Dev 163
pull1D
Entries 77
Mean −0.05942
Std Dev 0.7875

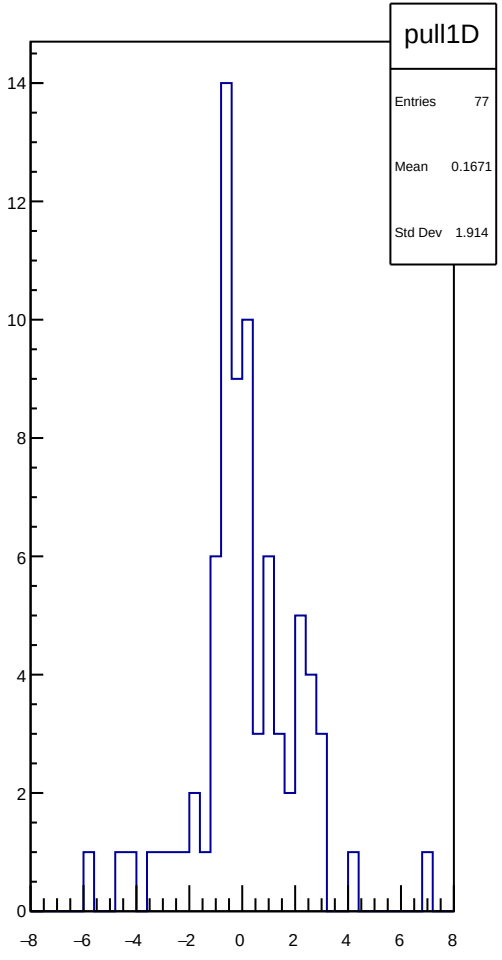

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 12.19 / 76
p0 −138.1± 1.288
pull
Entries 77
Mean −61.38
Std Dev 110.9

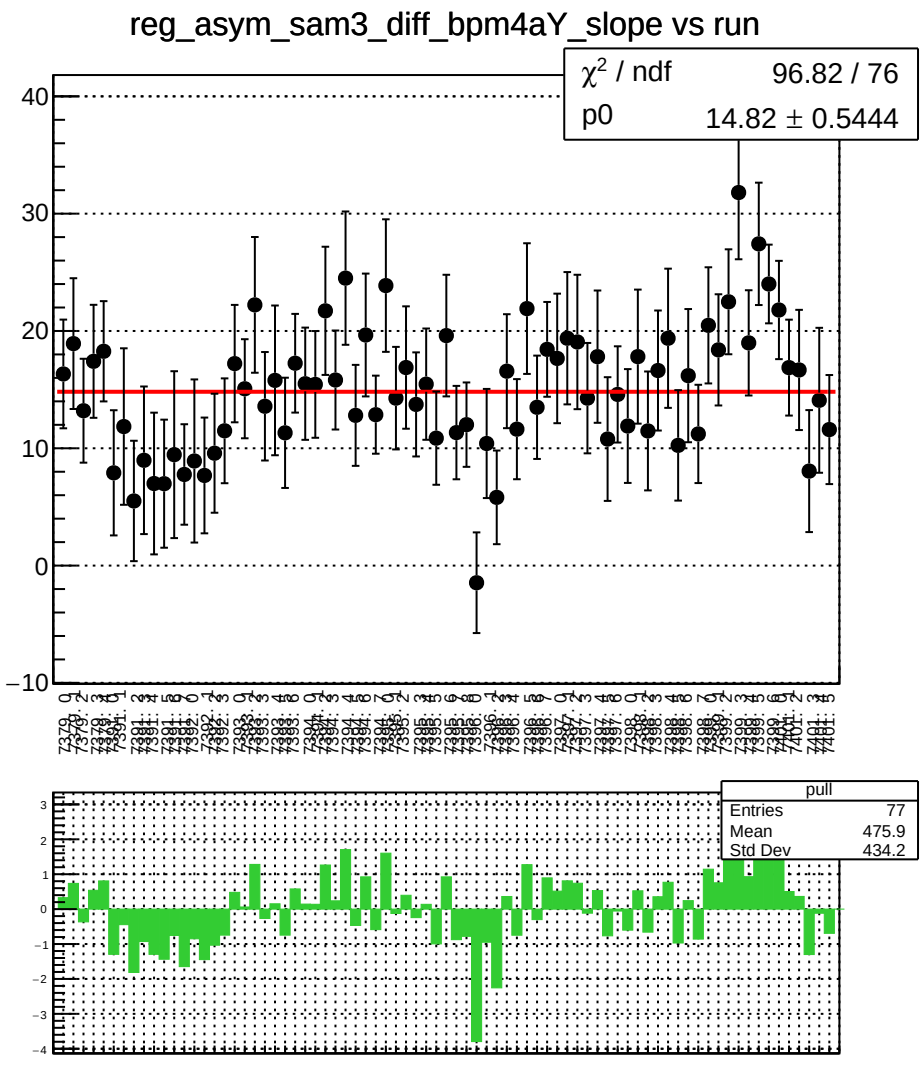

pull1D
Entries 77
Mean −0.008138
Std Dev 0.3978

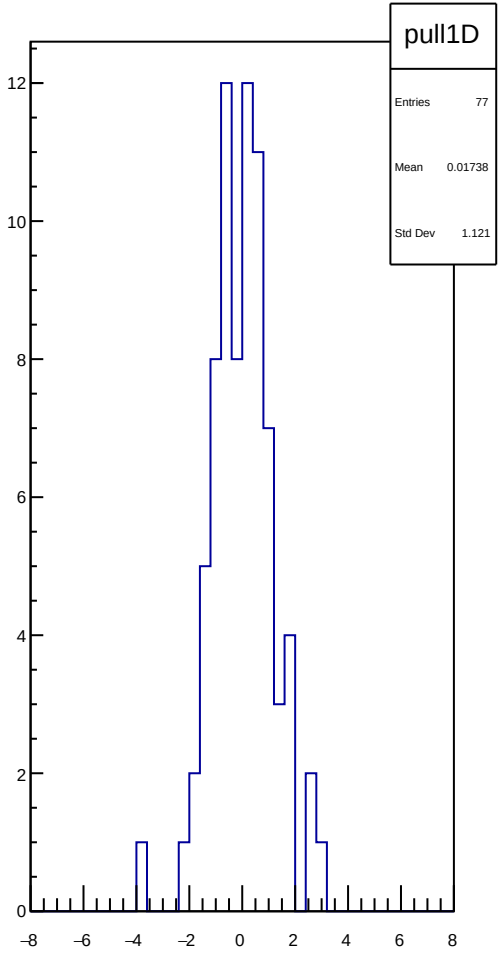

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 12.44 / 76
p0 1.112 ± 0.05846
pull
Entries 77
Mean 1296
Std Dev 1253

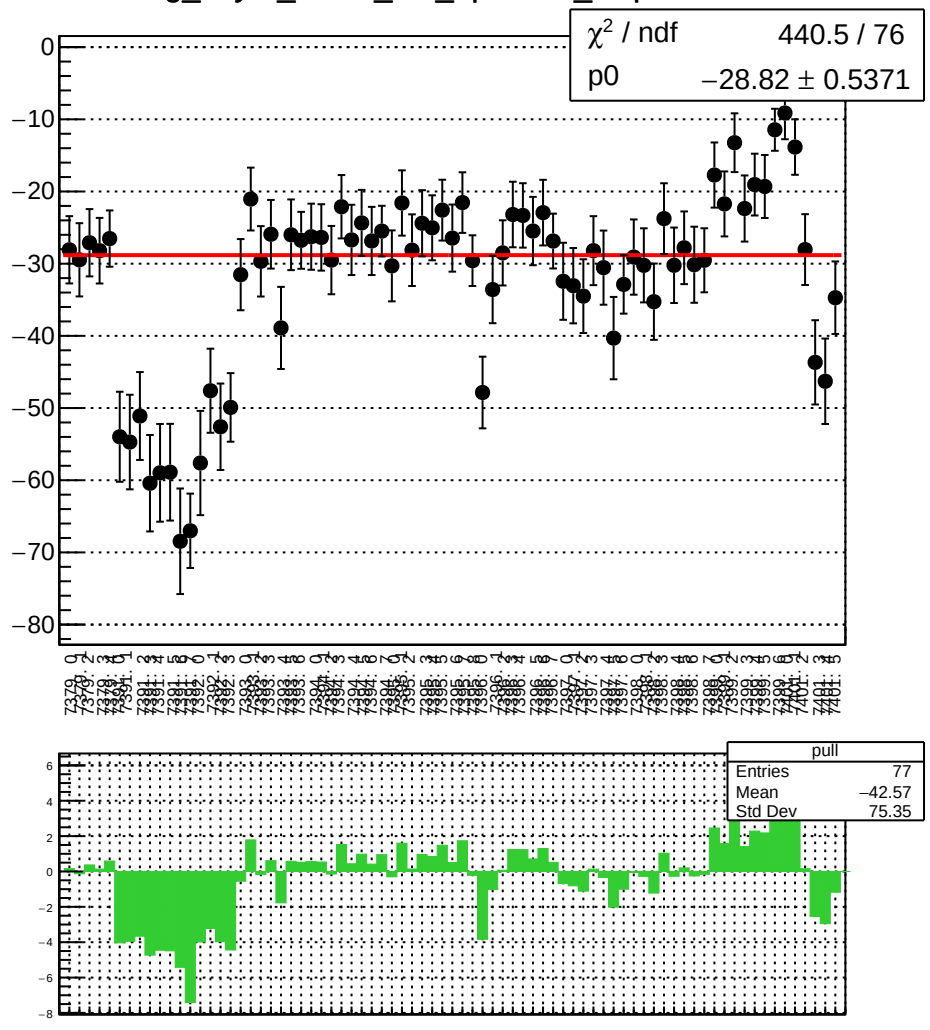

pull1D
Entries 77
Mean 0.00399
Std Dev 0.4019

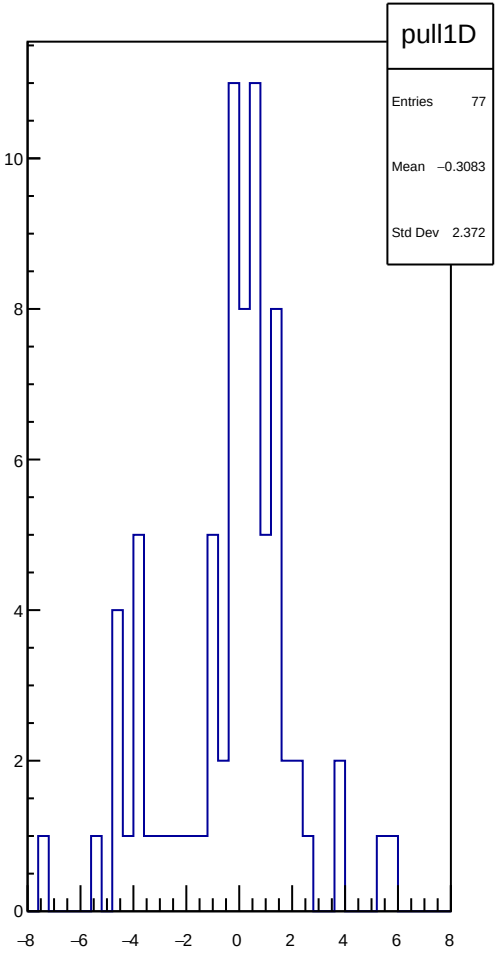

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 284.3 / 76
p0 −56.73 ± 0.5175
pull
Entries 77
Mean −97.01
Std Dev 136.5

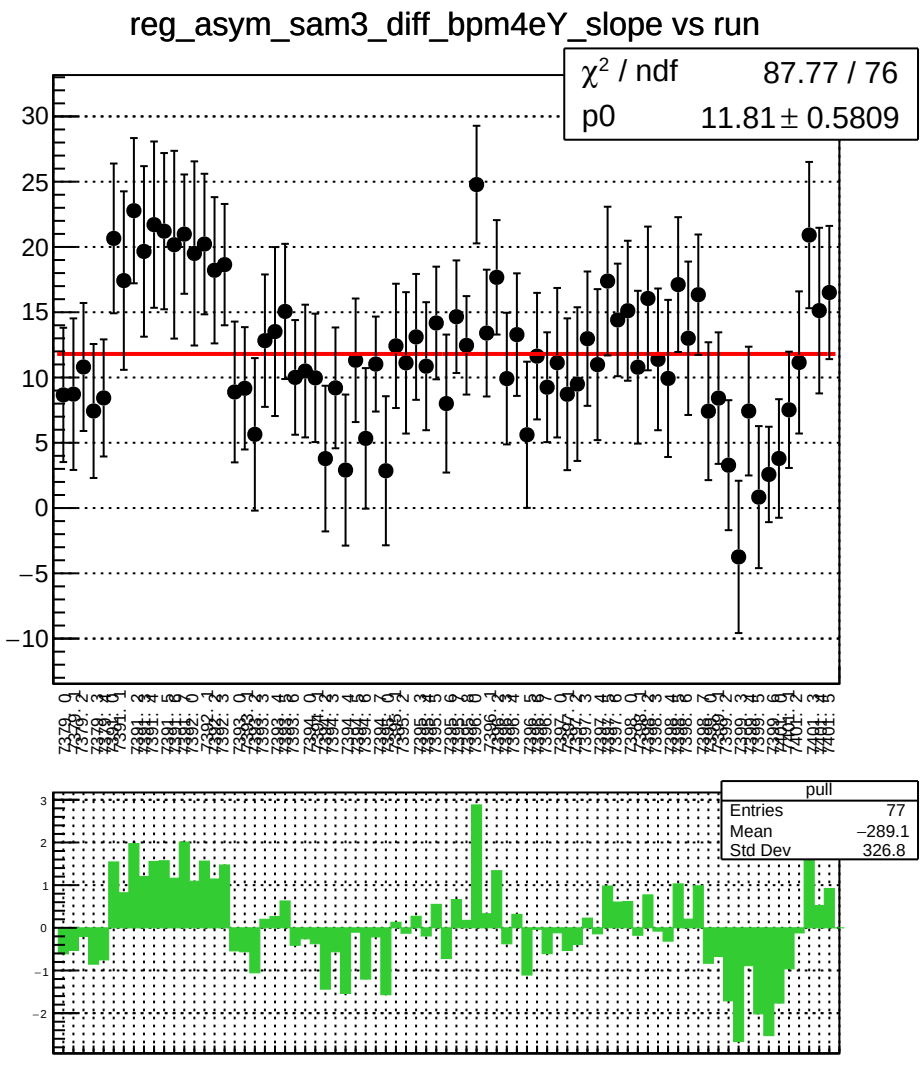

pull1D
Entries 77
Mean 0.1671
Std Dev 1.914

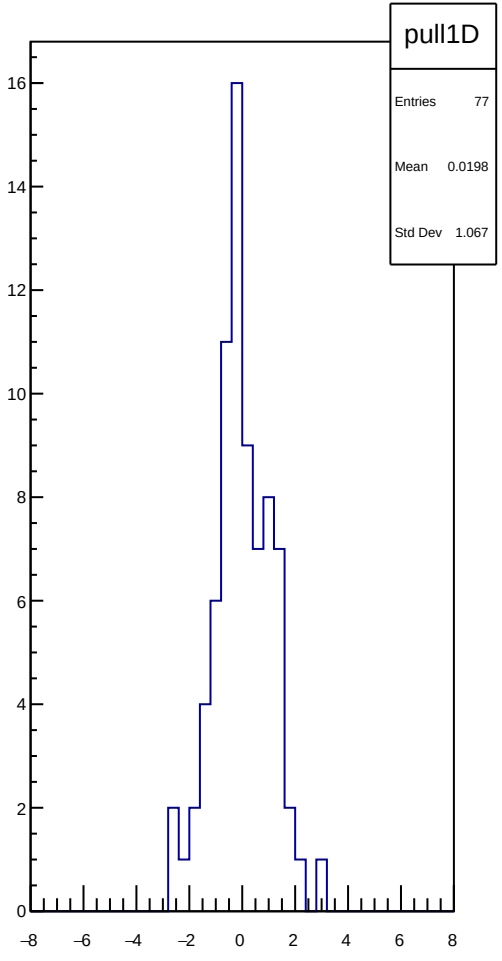

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 96.82 / 76
p0 14.82 ± 0.5444
pull
Entries 77
Mean 475.9
Std Dev 434.2

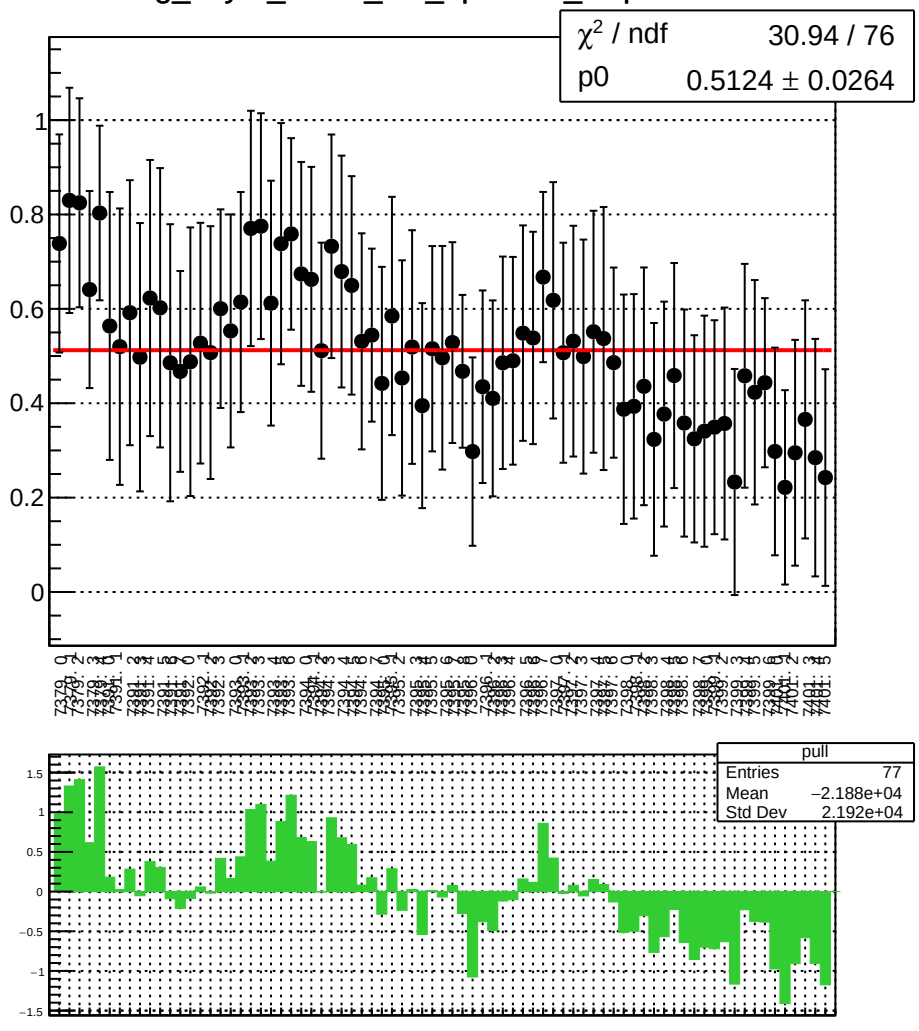

pull1D
Entries 77
Mean 0.01738
Std Dev 1.121

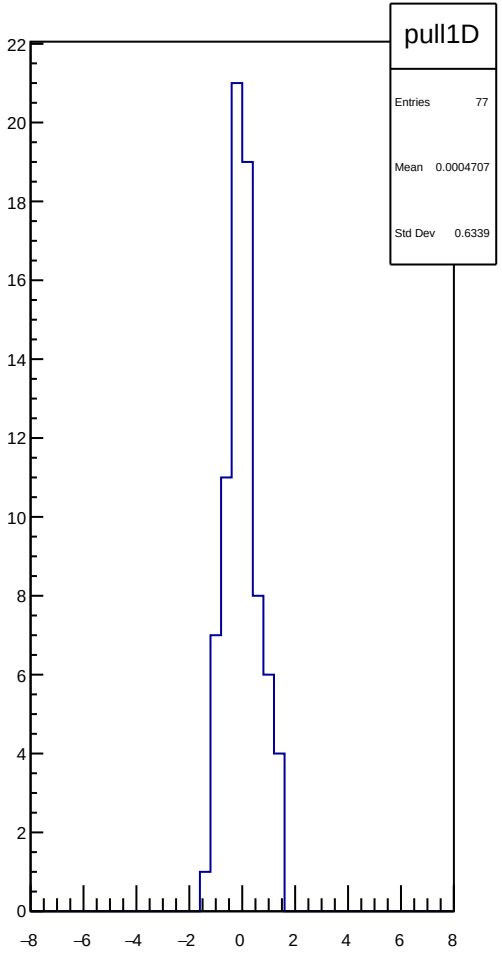

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 440.5 / 76
p0 −28.82 ± 0.5371
pull
Entries 77
Mean −42.57
Std Dev 75.35

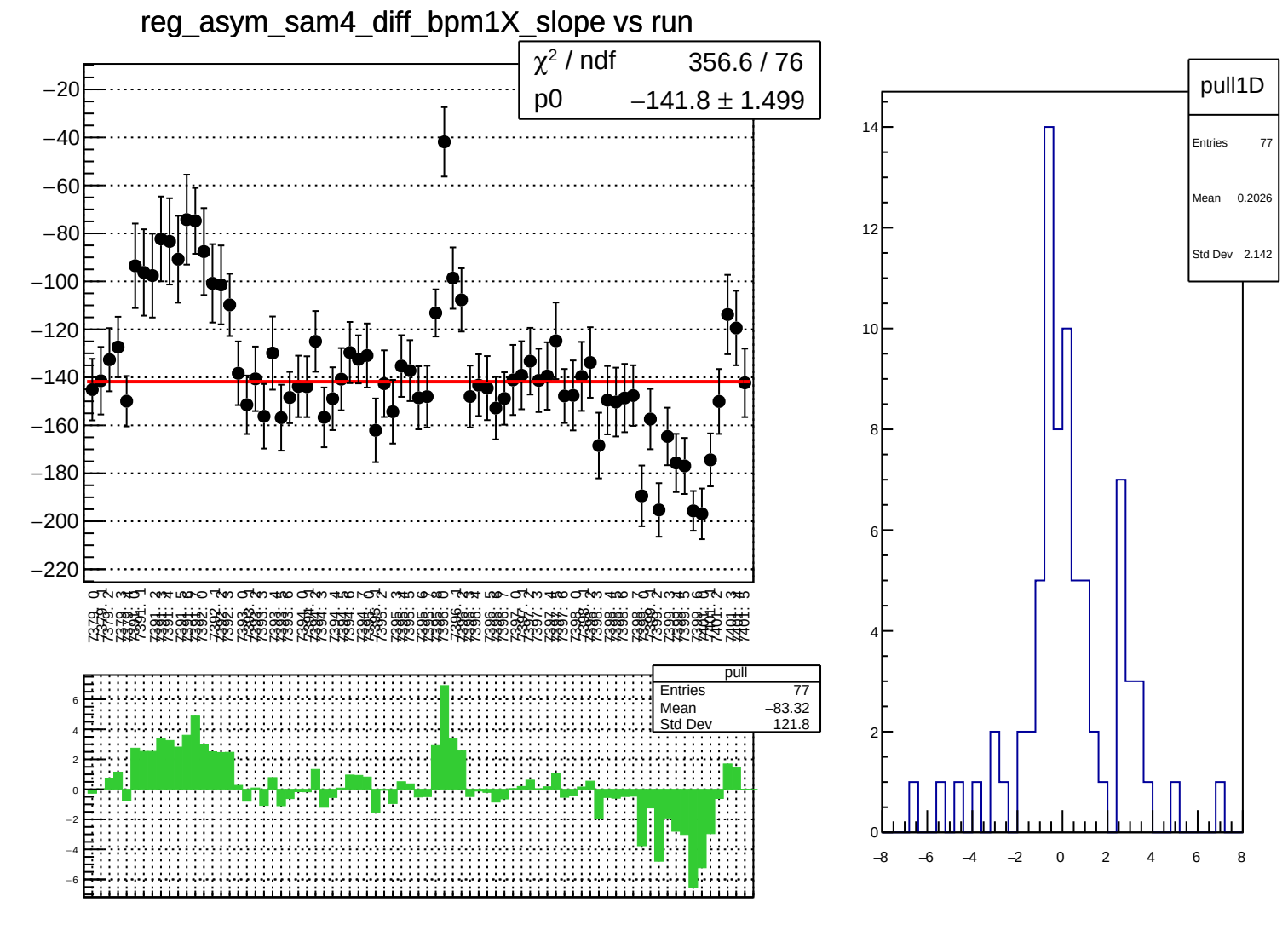

pull1D
Entries 77
Mean −0.3083
Std Dev 2.372

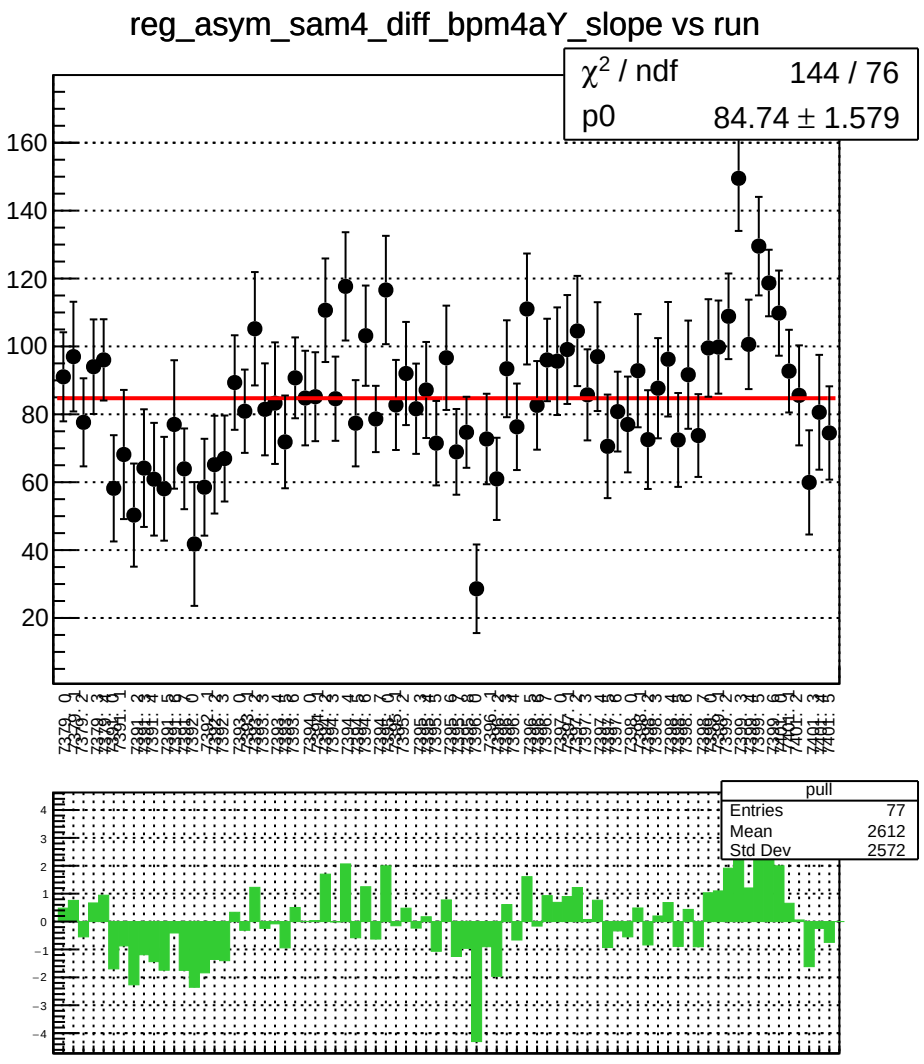

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 87.77 / 76
p0 11.81 ± 0.5809
pull
Entries 77
Mean −289.1
Std Dev 326.8

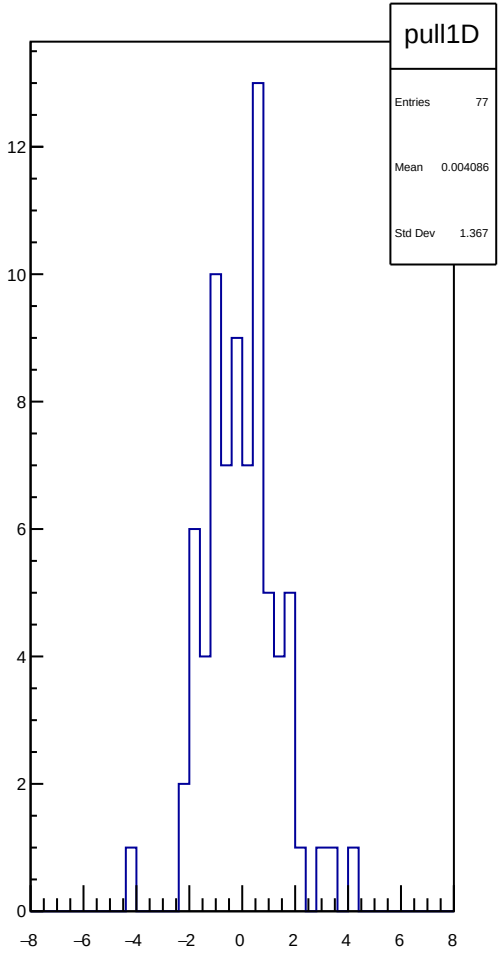

pull1D
Entries 77
Mean 0.0198
Std Dev 1.067

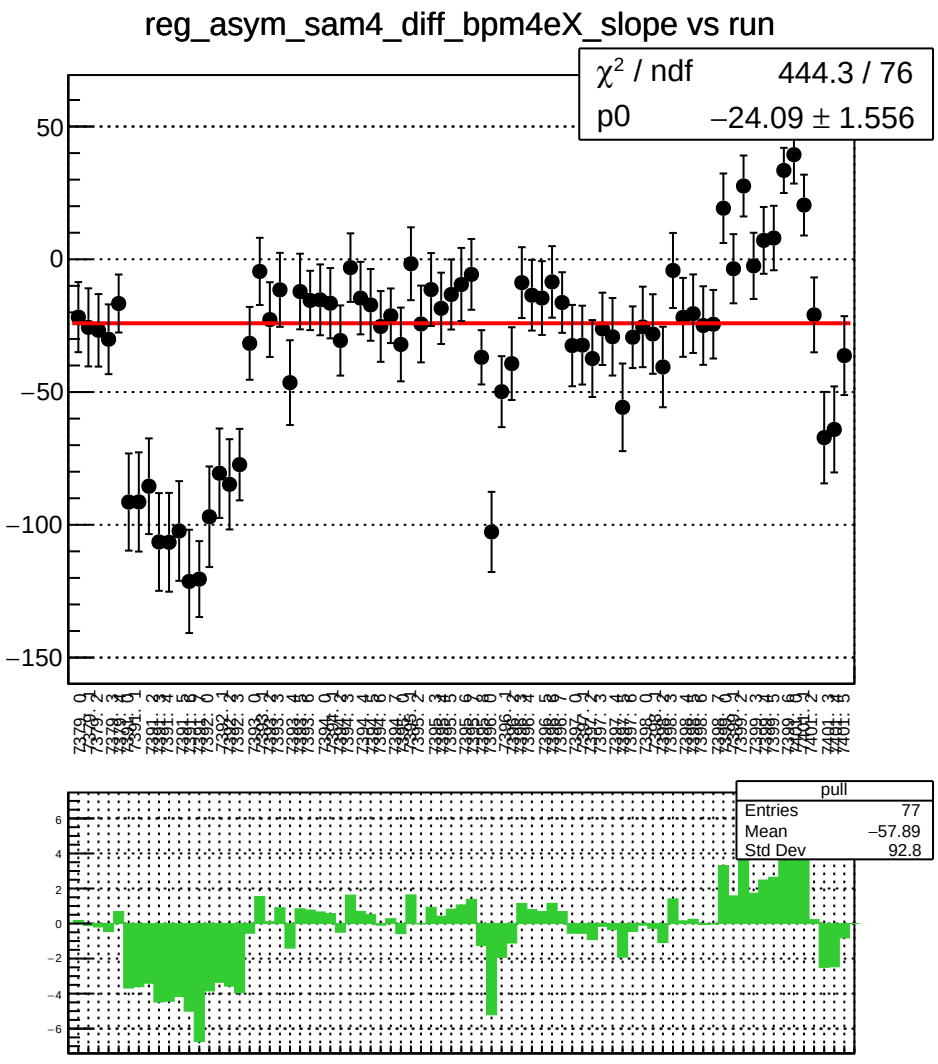

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 30.94 / 76
p0 0.5124 ± 0.0264
pull
Entries 77
Mean −2.188e+04
Std Dev 2.192e+04

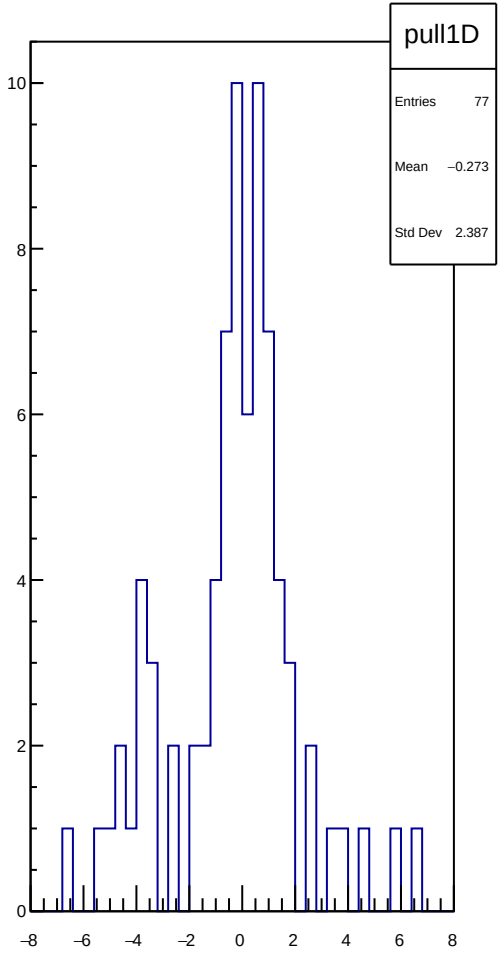

pull1D
Entries 77
Mean 0.0004707
Std Dev 0.6339

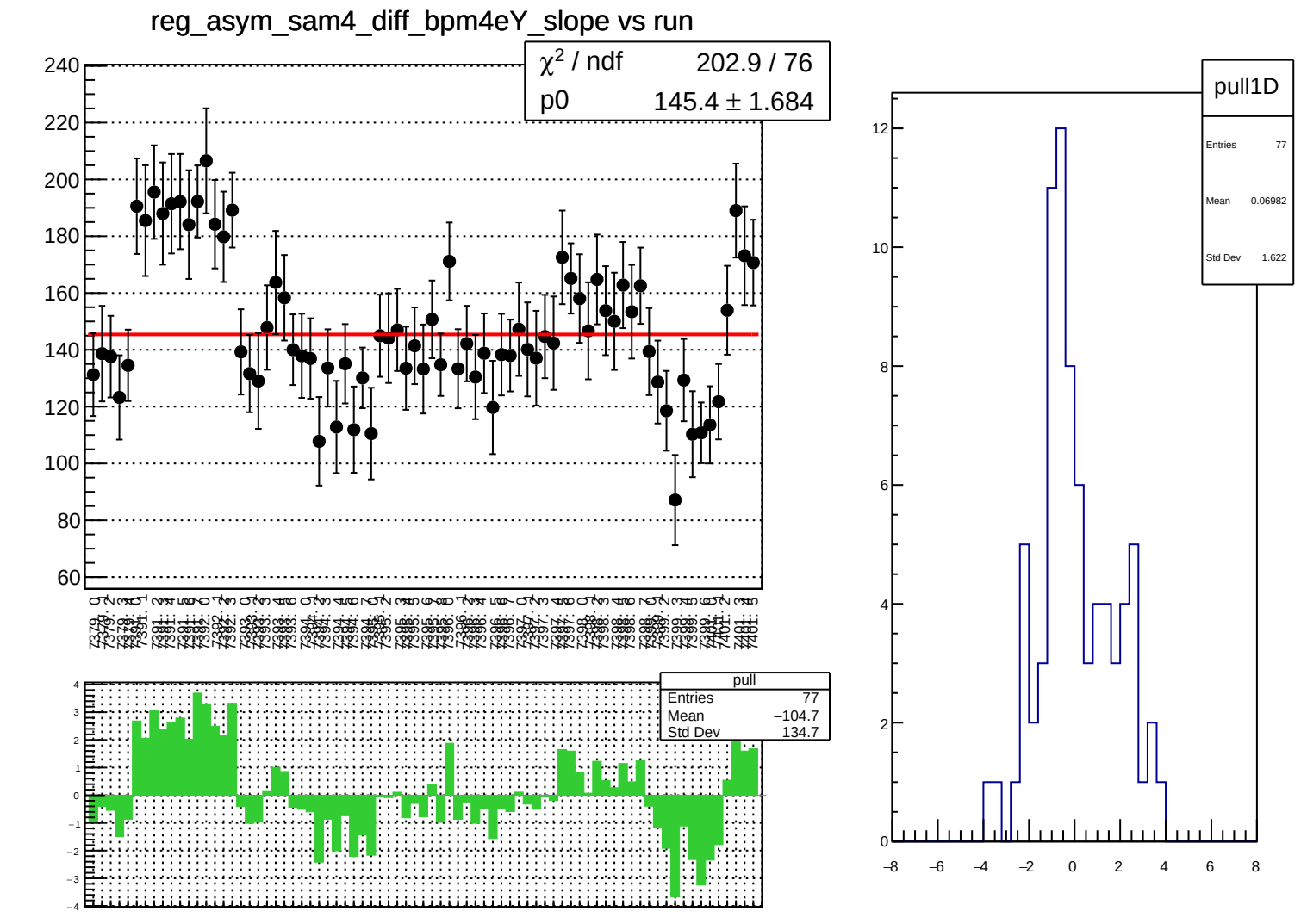

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 356.6 / 76
p0 −141.8 ± 1.499
pull
Entries 77
Mean −83.32
Std Dev 121.8
pull1D
Entries 77
Mean 0.2026
Std Dev 2.142

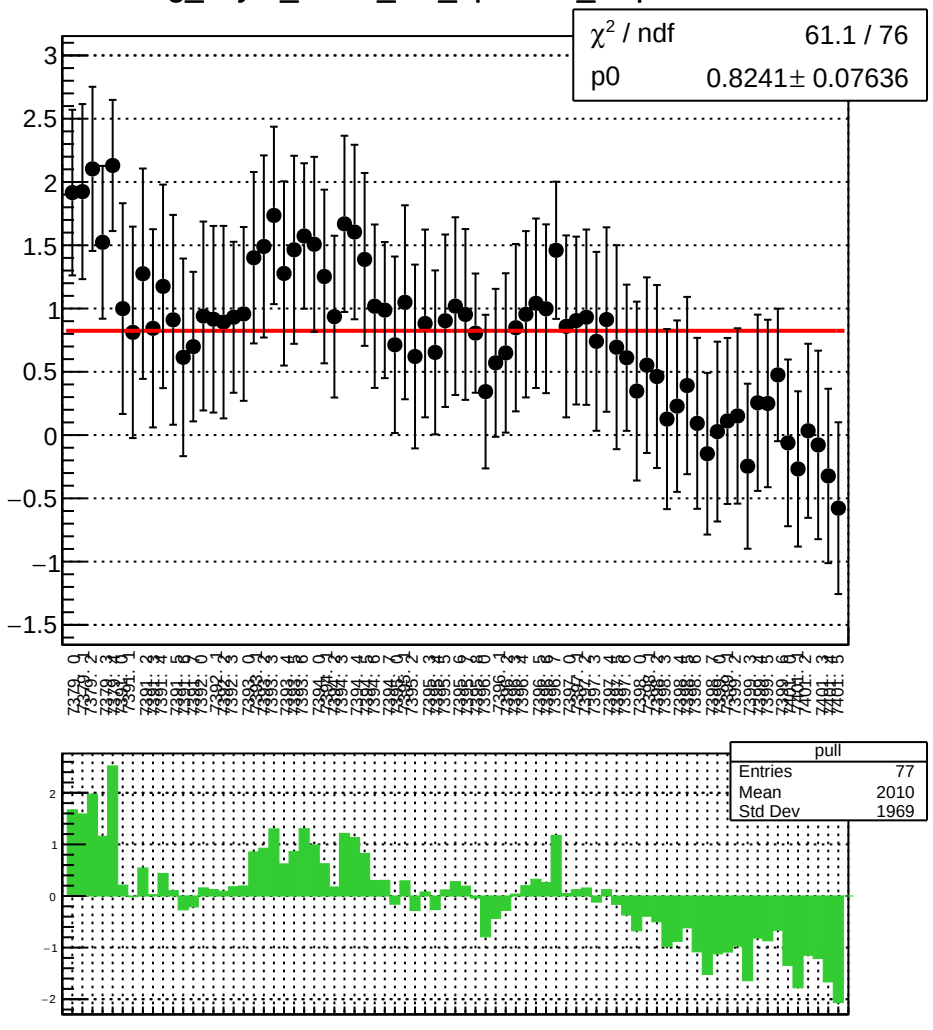

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 144 / 76
p0 84.74 ± 1.579
pull
Entries 77
Mean 2612
Std Dev 2572

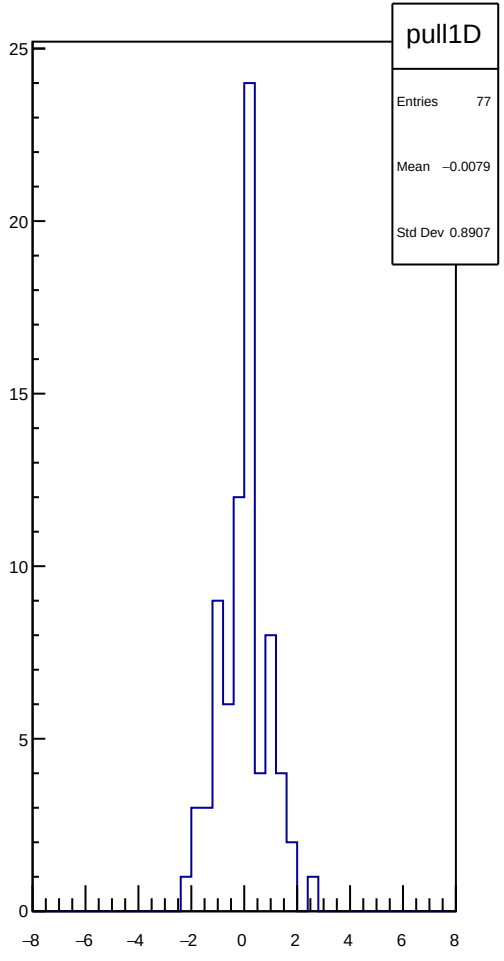

pull1D
Entries 77
Mean 0.004086
Std Dev 1.367

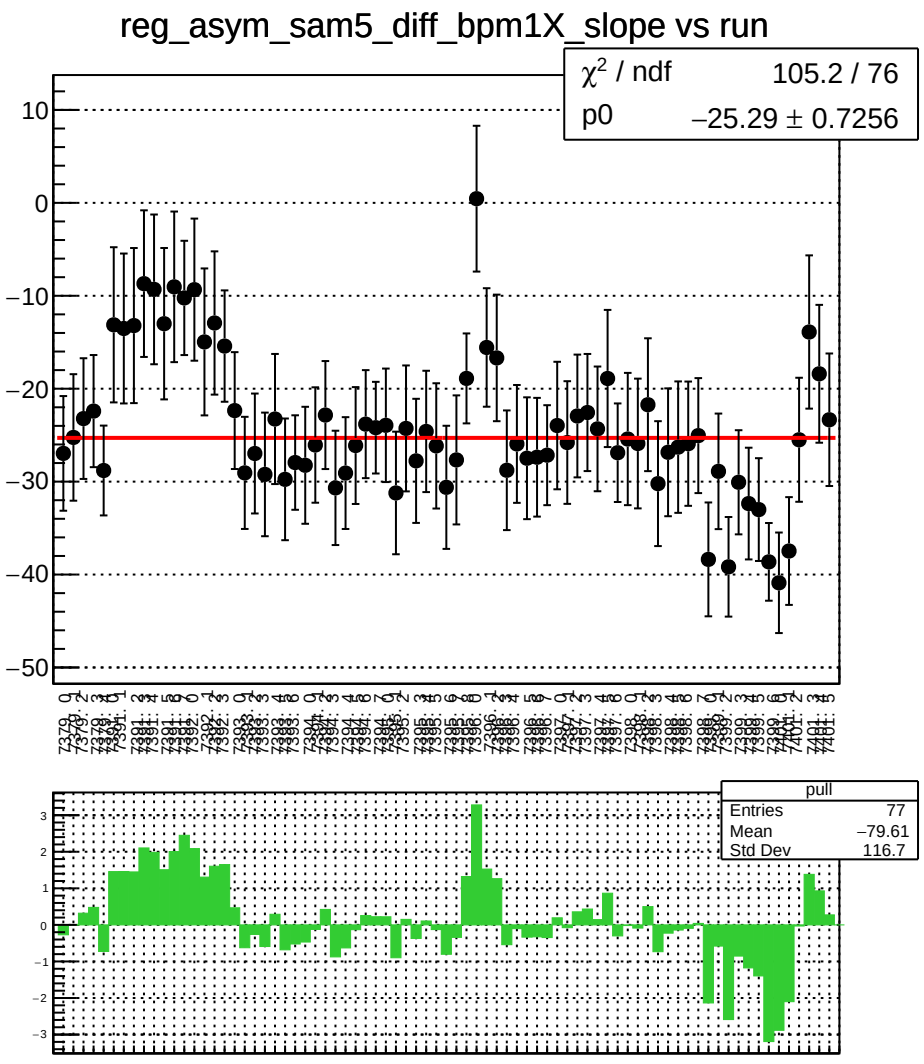

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 444.3 / 76
p0 −24.09 ± 1.556
pull
Entries 77
Mean −57.89
Std Dev 92.8

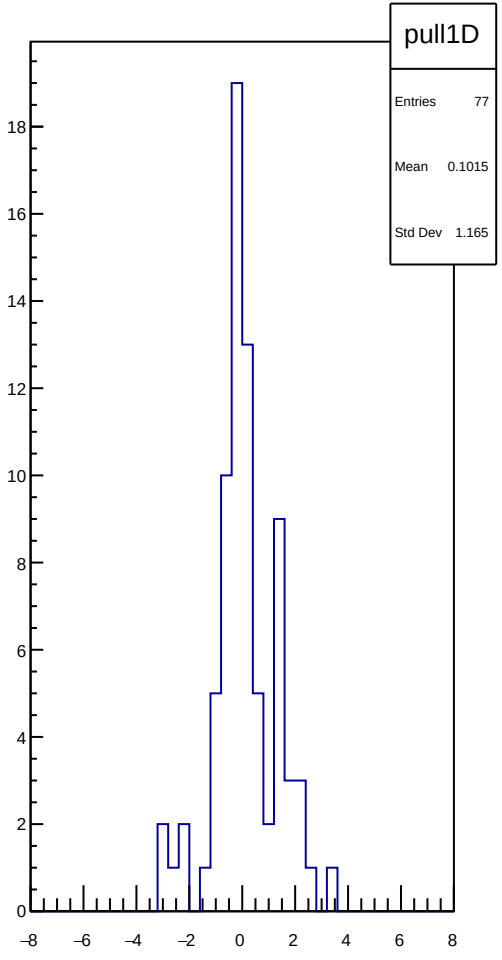

pull1D
Entries 77
Mean −0.273
Std Dev 2.387

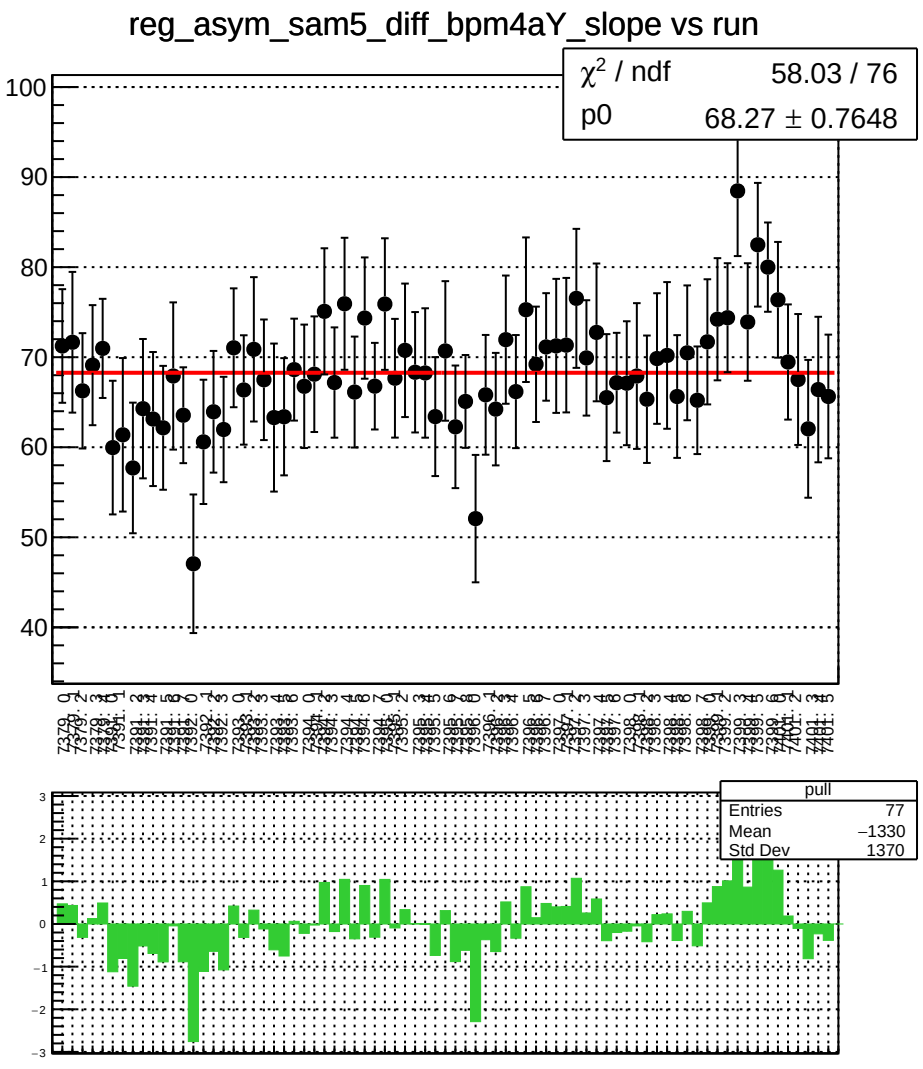

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 202.9 / 76
p0 145.4 ± 1.684
pull
Entries 77
Mean −104.7
Std Dev 134.7
pull1D
Entries 77
Mean 0.06982
Std Dev 1.622

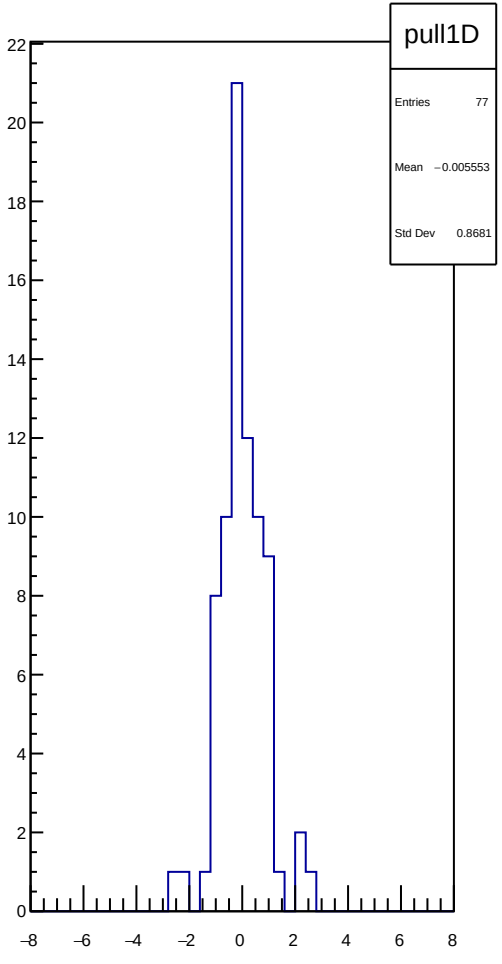

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 61.1 / 76
p0 0.8241± 0.07636
pull
Entries 77
Mean 2010
Std Dev 1969

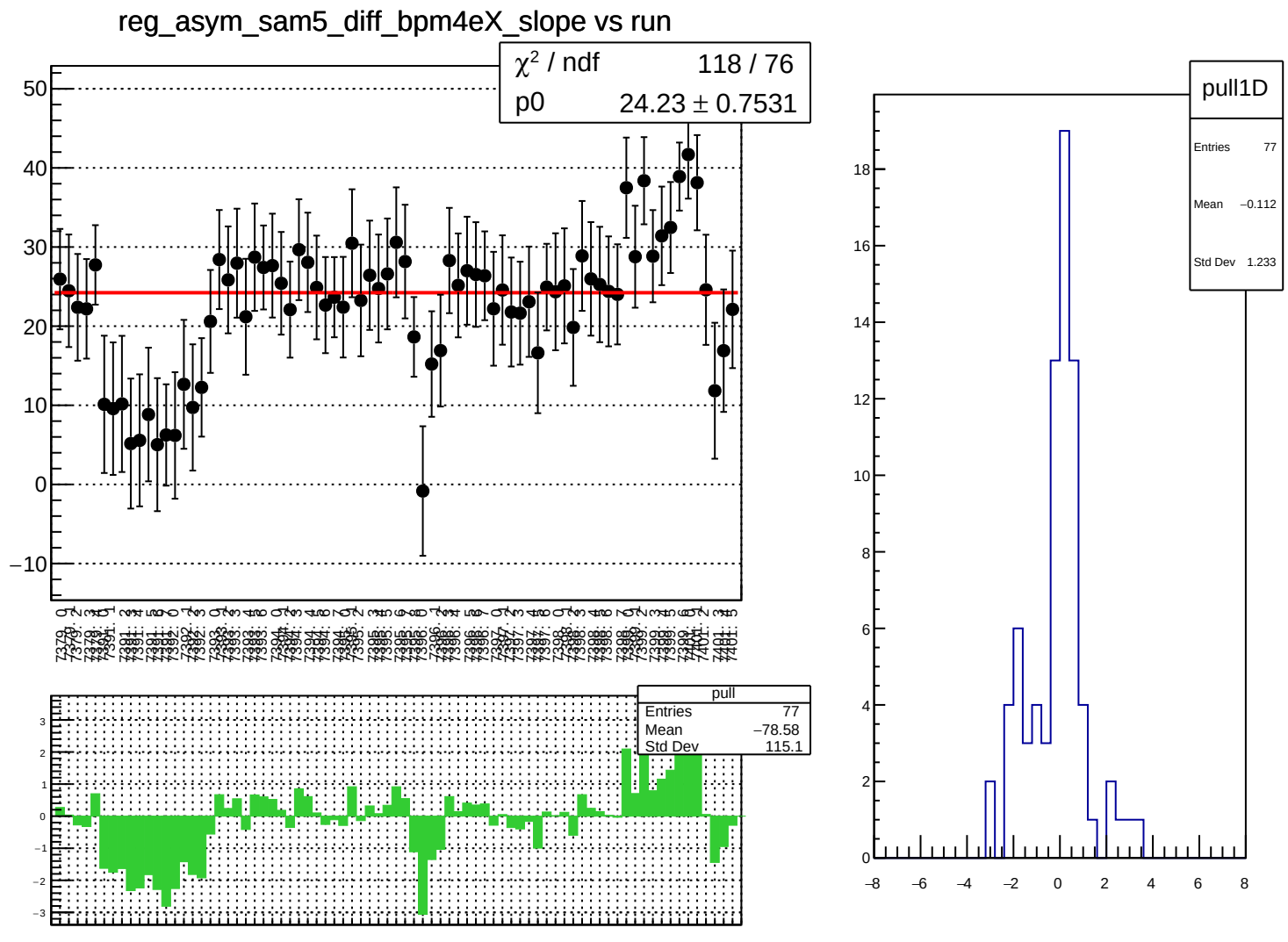

pull1D
Entries 77
Mean −0.0079
Std Dev 0.8907

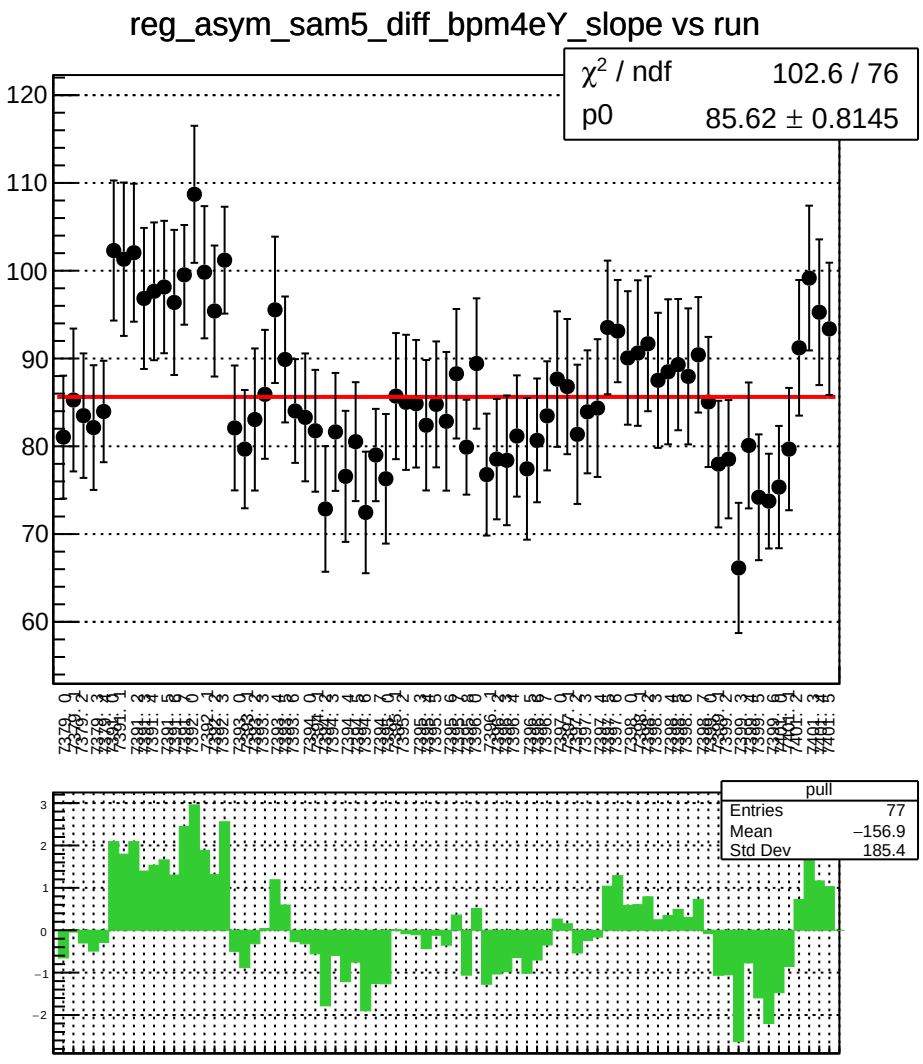

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 105.2 / 76
p0 −25.29 ± 0.7256
pull
Entries 77
Mean −79.61
Std Dev 116.7

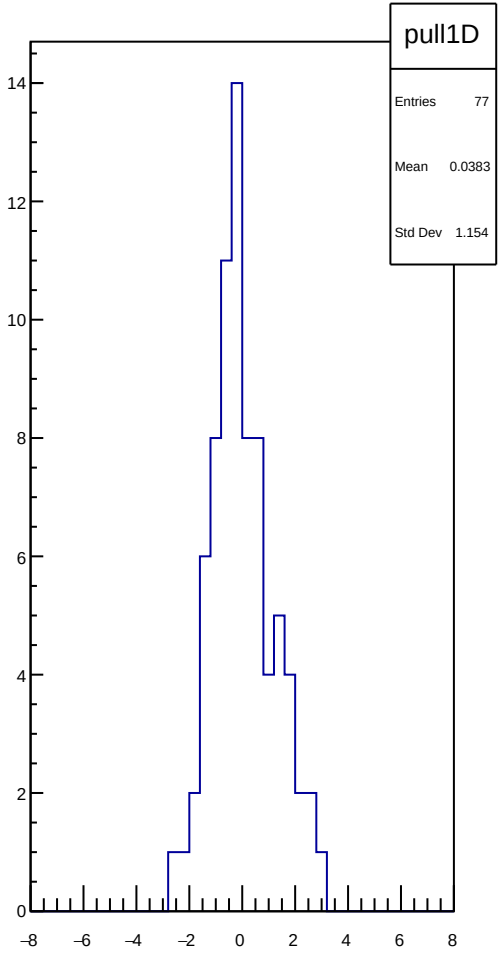

pull1D
Entries 77
Mean 0.1015
Std Dev 1.165

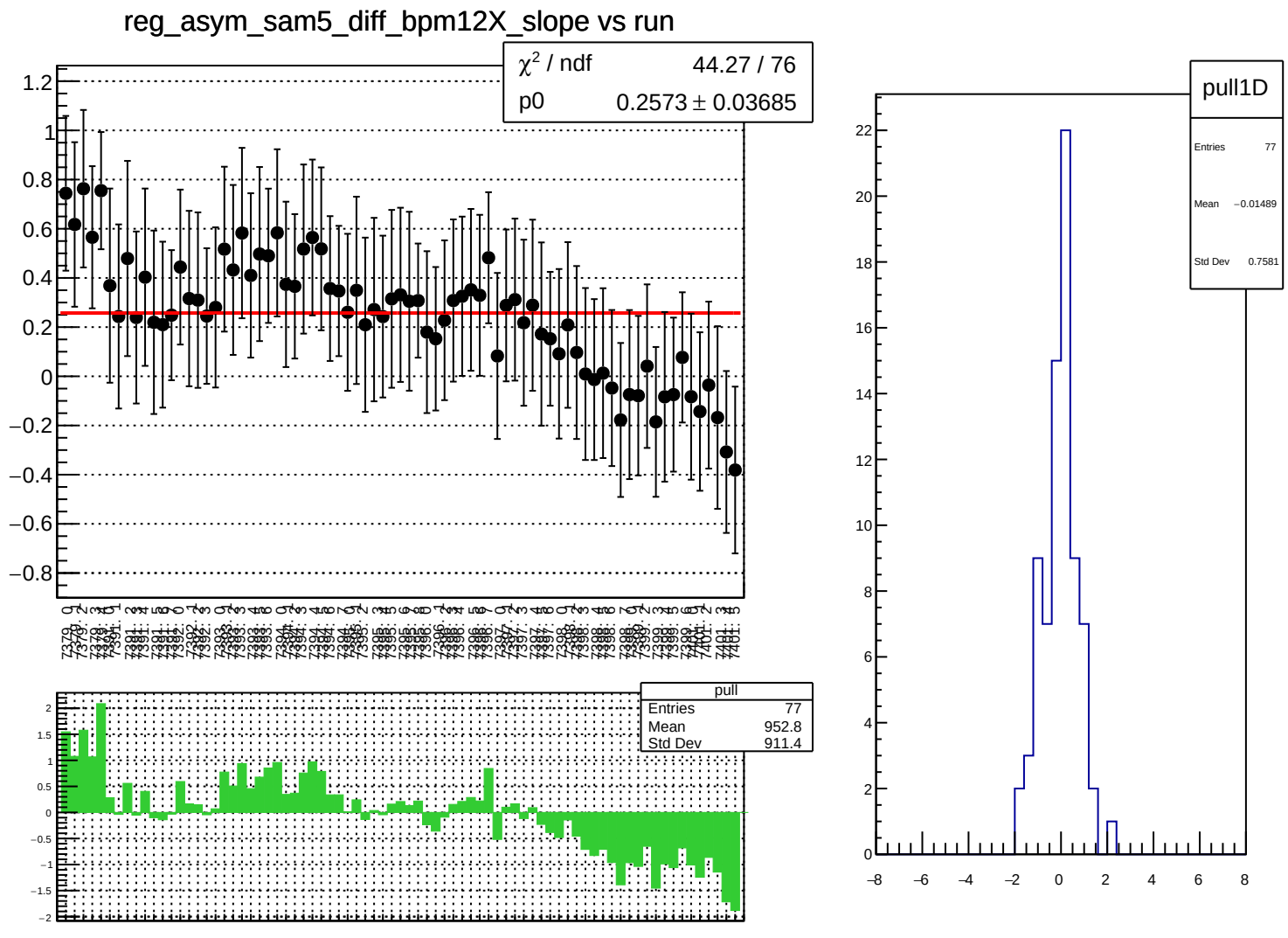

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 58.03 / 76
p0 68.27 ± 0.7648
pull
Entries 77
Mean −1330
Std Dev 1370

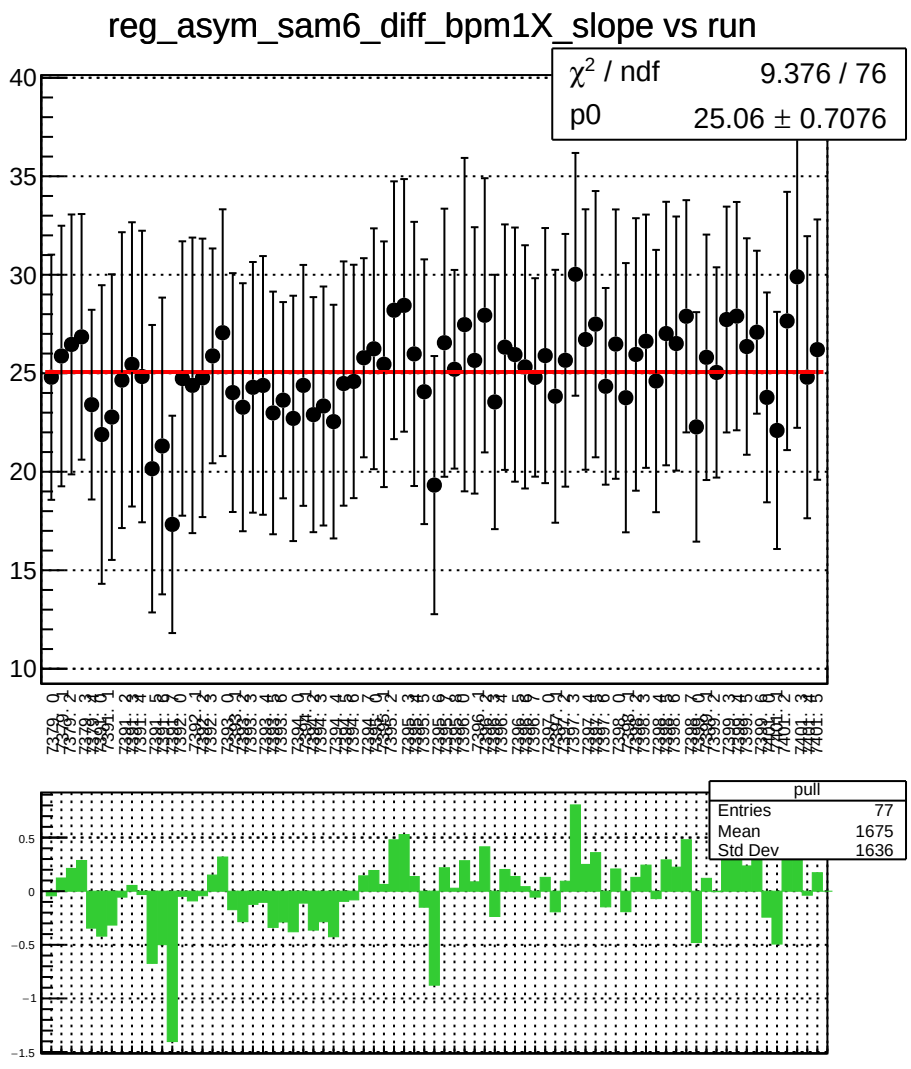

pull1D
Entries 77
Mean −0.005553
Std Dev 0.8681

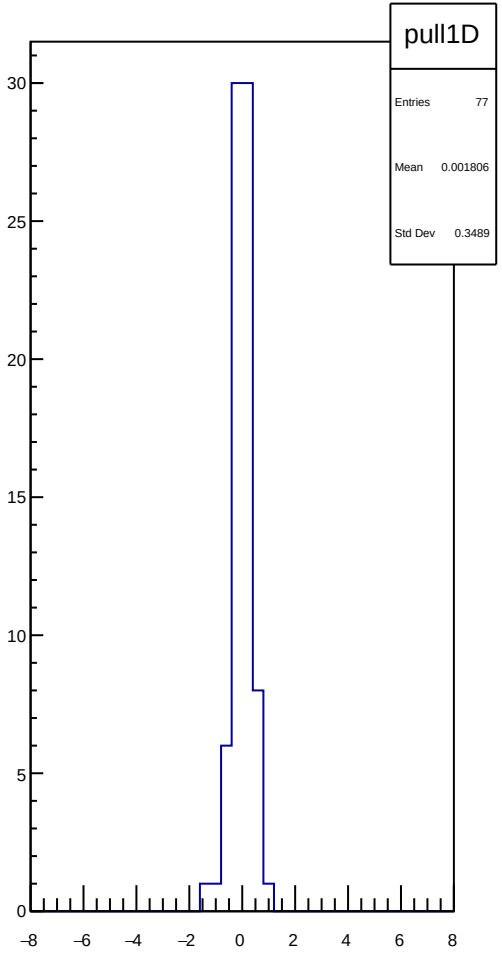

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 118 / 76
p0 24.23 ± 0.7531
pull
Entries 77
Mean −78.58
Std Dev 115.1
pull1D
Entries 77
Mean −0.112
Std Dev 1.233

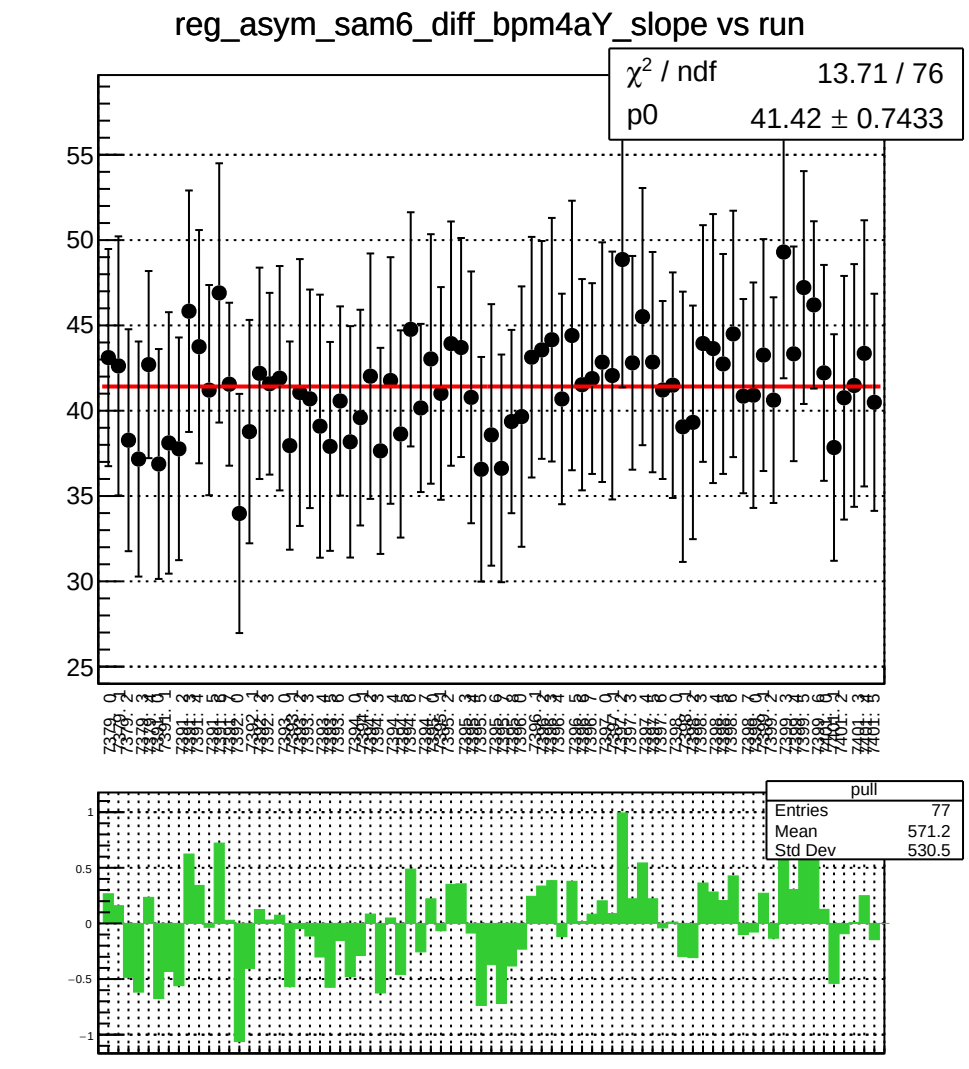

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 102.6 / 76
p0 85.62 ± 0.8145
pull
Entries 77
Mean −156.9
Std Dev 185.4

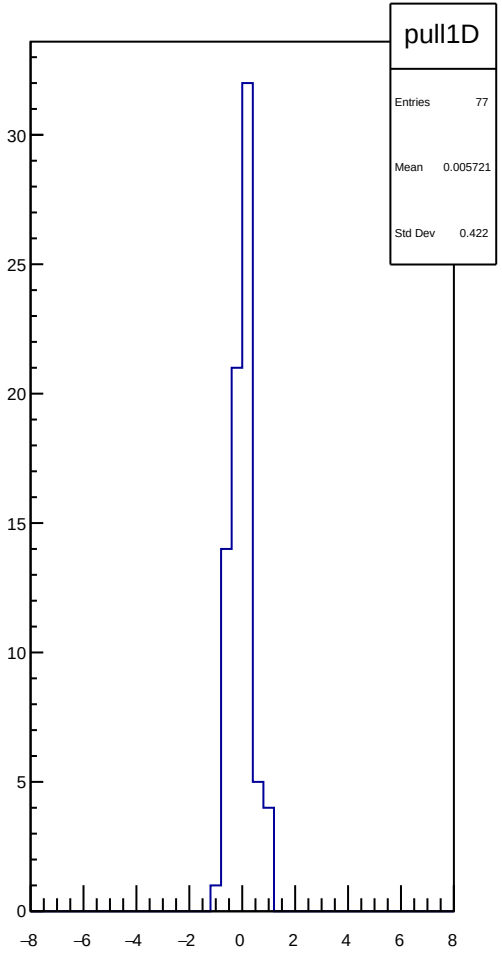

pull1D
Entries 77
Mean 0.0383
Std Dev 1.154

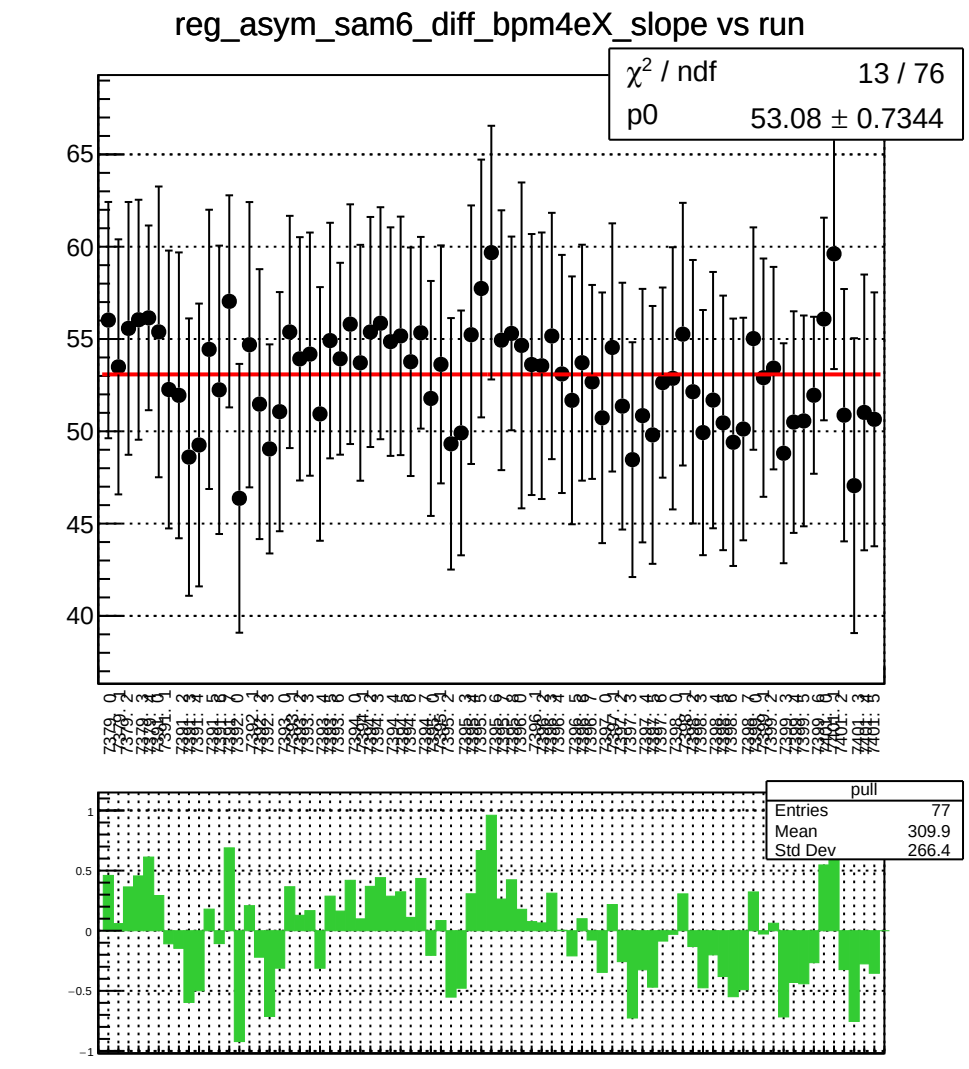

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 44.27 / 76
p0 0.2573 ± 0.03685
pull
Entries 77
Mean 952.8
Std Dev 911.4
pull1D
Entries 77
Mean −0.01489
Std Dev 0.7581

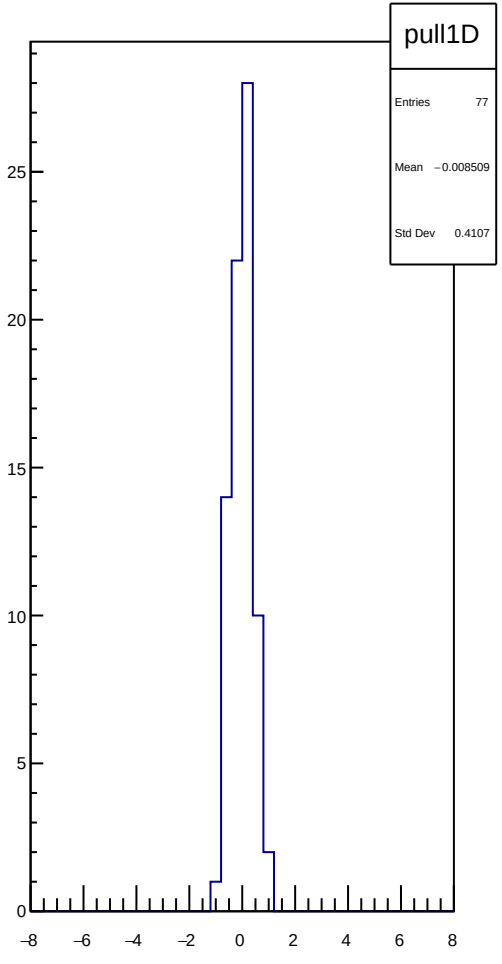

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 9.376 / 76
p0 25.06 ± 0.7076
pull
Entries 77
Mean 1675
Std Dev 1636

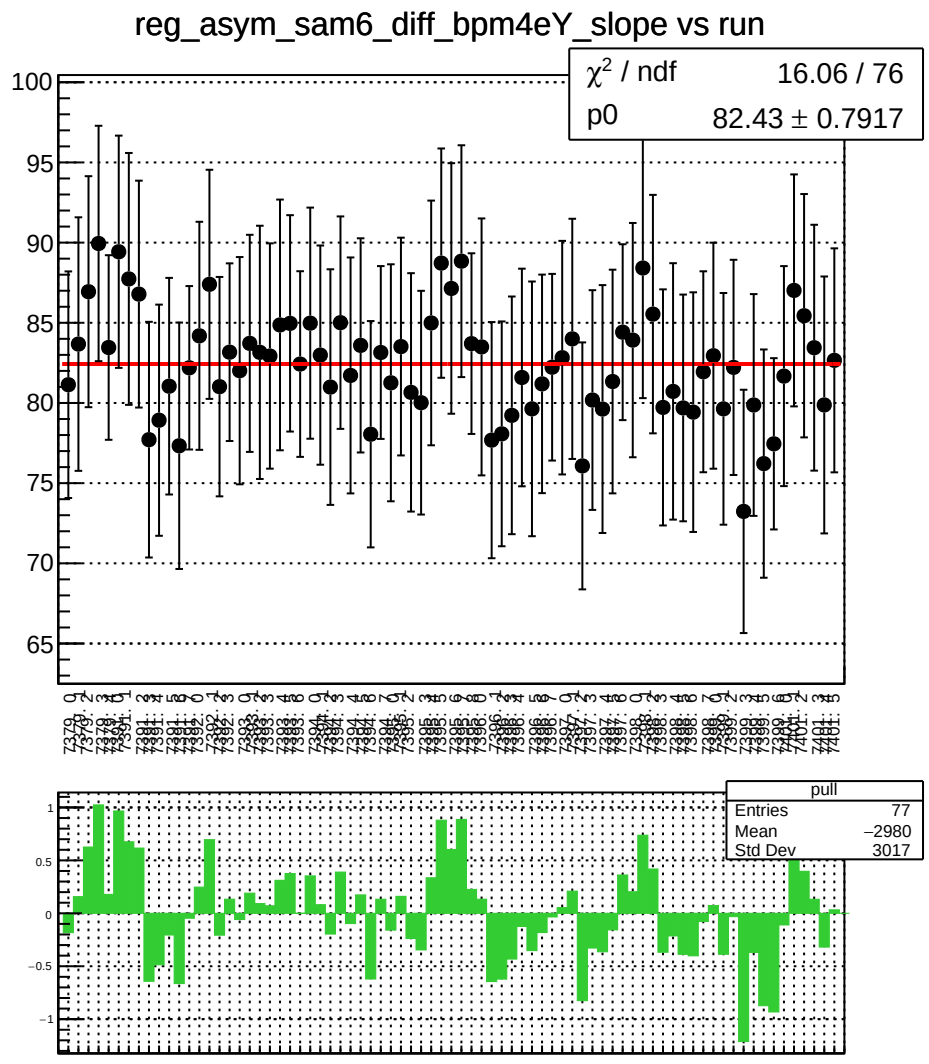

pull1D
Entries 77
Mean 0.001806
Std Dev 0.3489

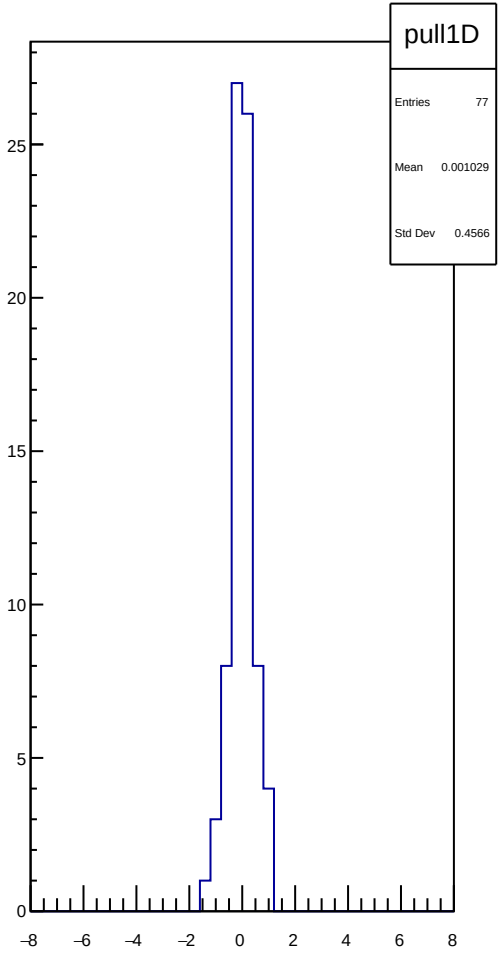

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 13.71 / 76
p0 41.42 ± 0.7433
pull
Entries 77
Mean 571.2
Std Dev 530.5

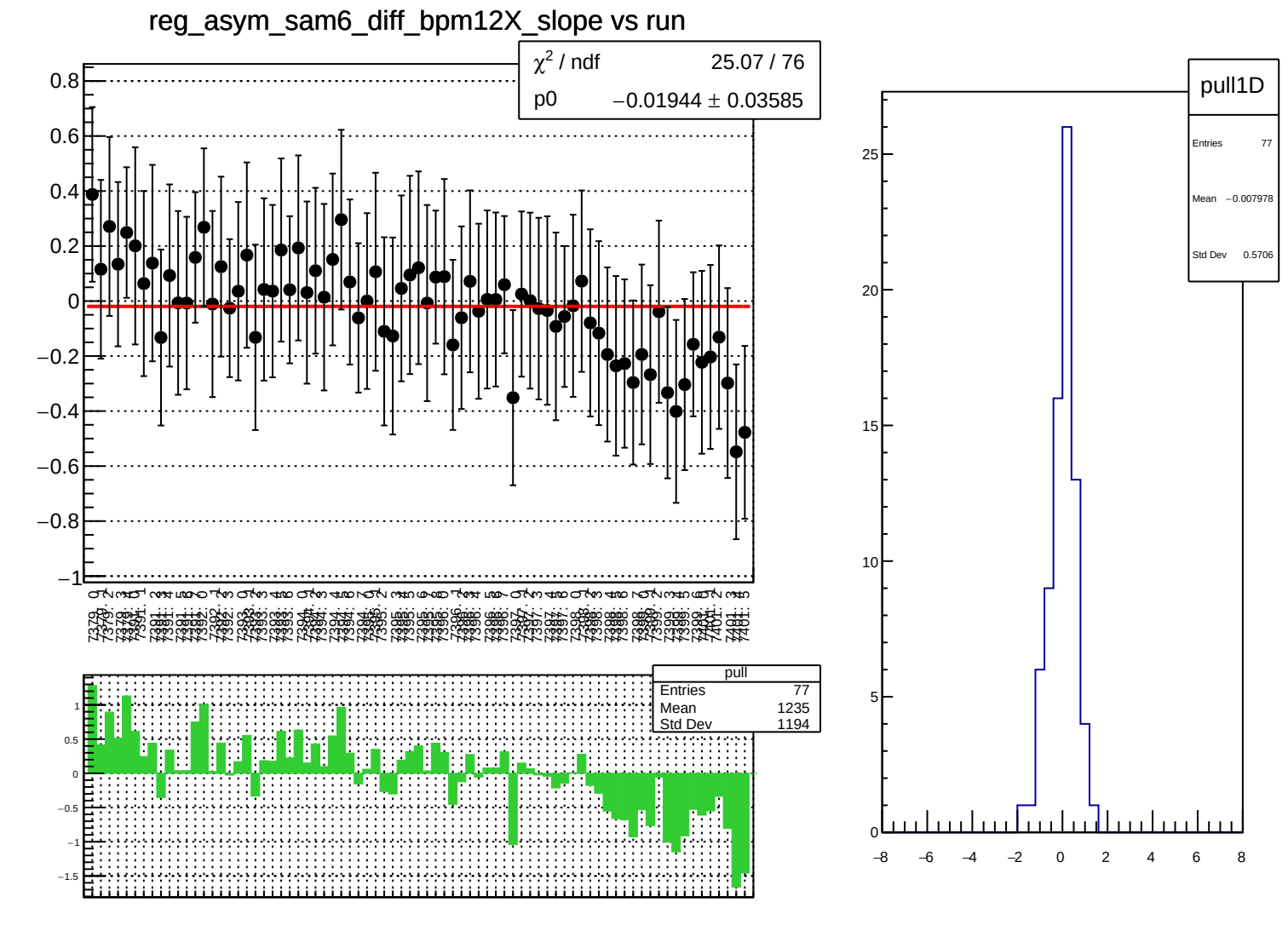

pull1D
Entries 77
Mean 0.005721
Std Dev 0.422

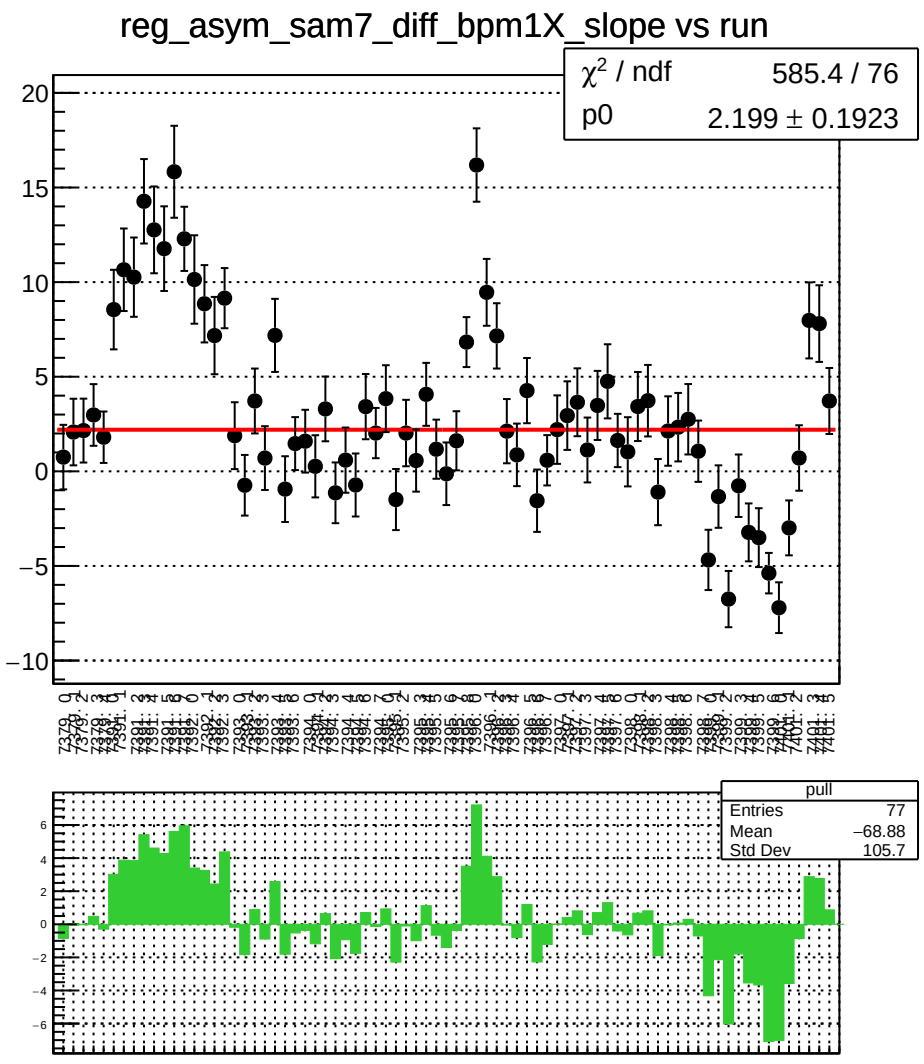

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 13 / 76
p0 53.08 ± 0.7344
pull
Entries 77
Mean 309.9
Std Dev 266.4

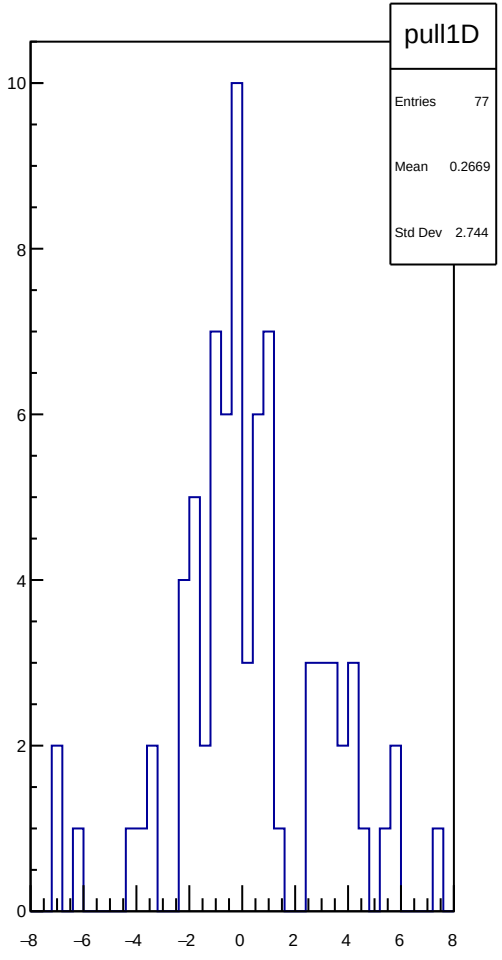

pull1D
Entries 77
Mean −0.008509
Std Dev 0.4107

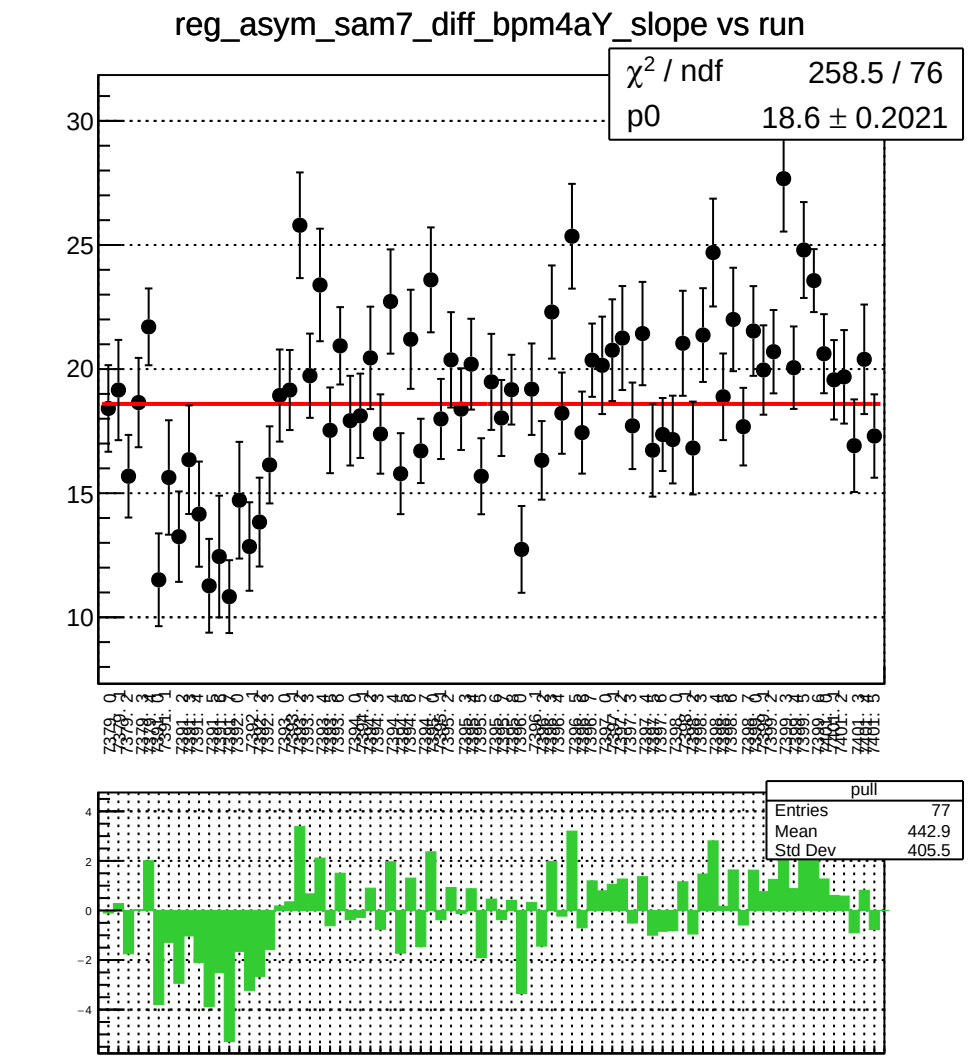

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 16.06 / 76
p0 82.43 ± 0.7917
pull
Entries 77
Mean −2980
Std Dev 3017

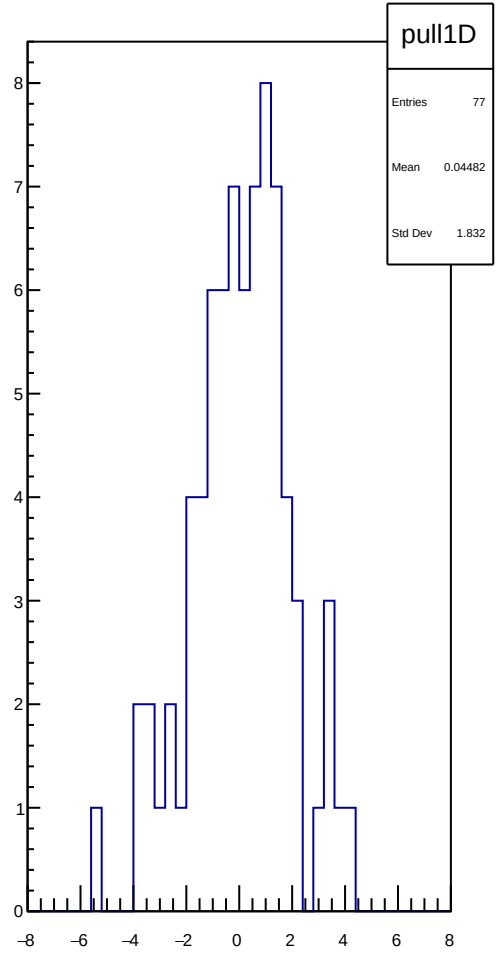

pull1D
Entries 77
Mean 0.001029
Std Dev 0.4566

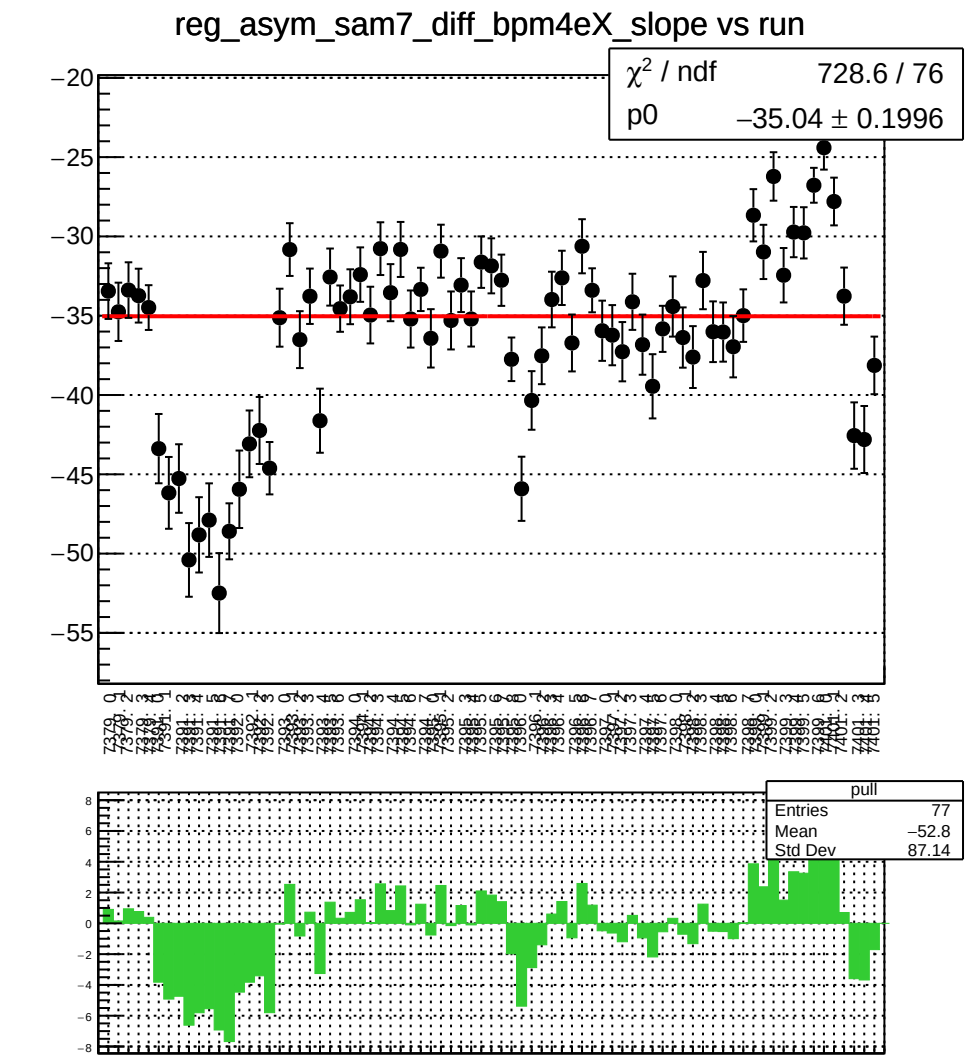

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 25.07 / 76
p0 −0.01944 ± 0.03585
pull
Entries 77
Mean 1235
Std Dev 1194
pull1D
Entries 77
Mean −0.007978
Std Dev 0.5706

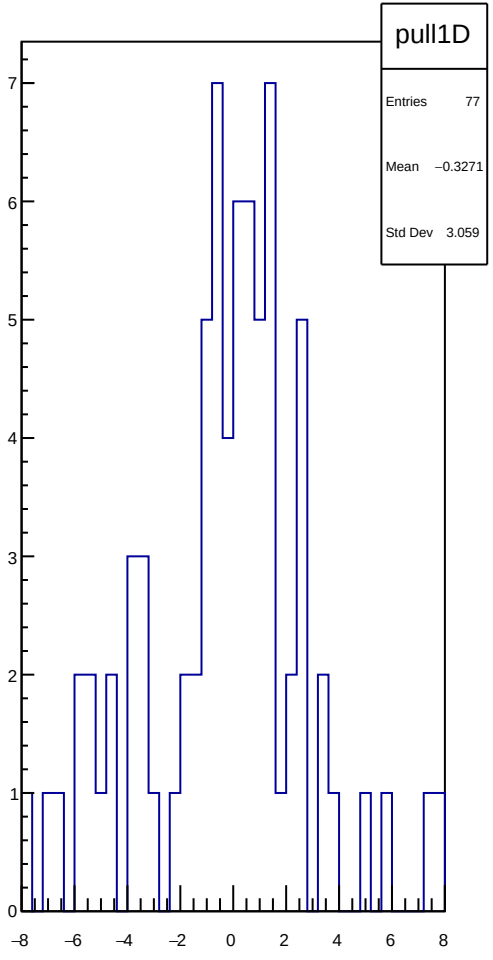

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 585.4 / 76
p0 2.199 ± 0.1923
pull
Entries 77
Mean −68.88
Std Dev 105.7

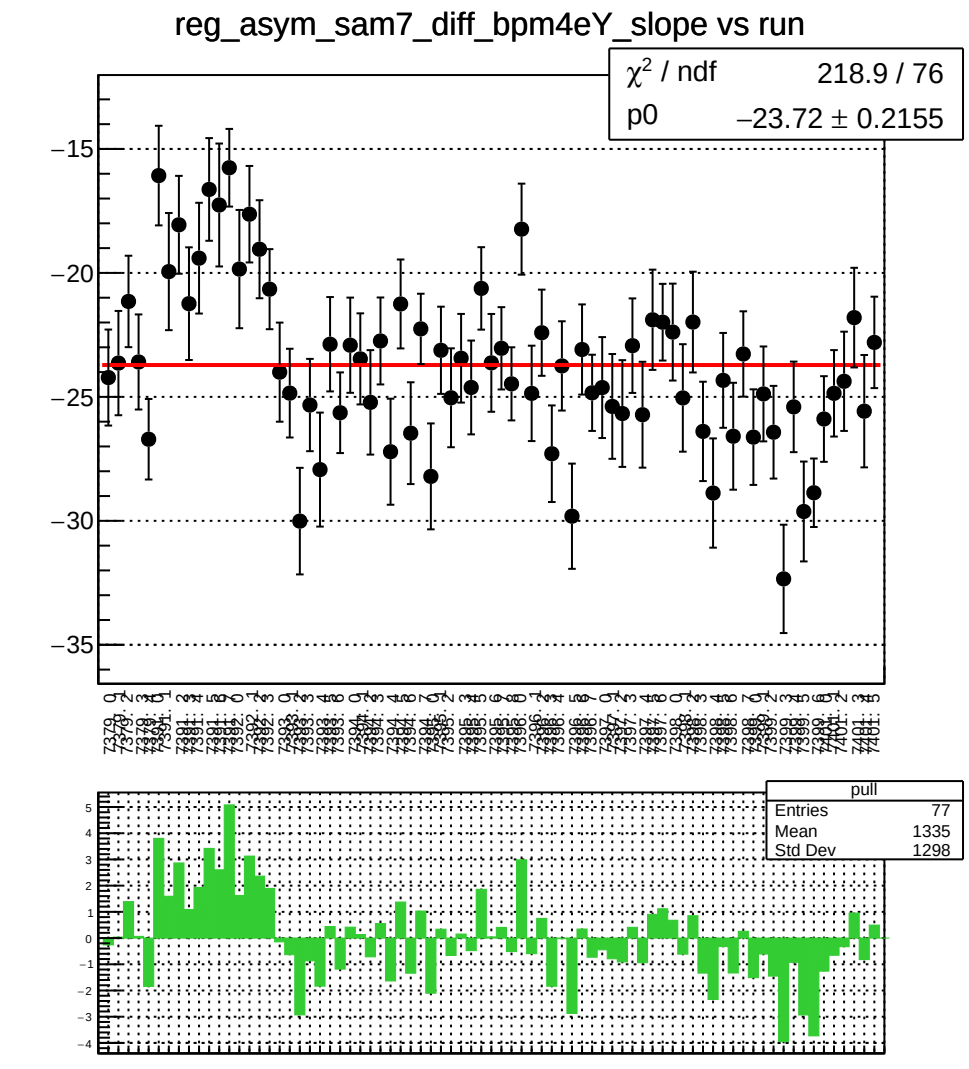

pull1D
Entries 77
Mean 0.2669
Std Dev 2.744

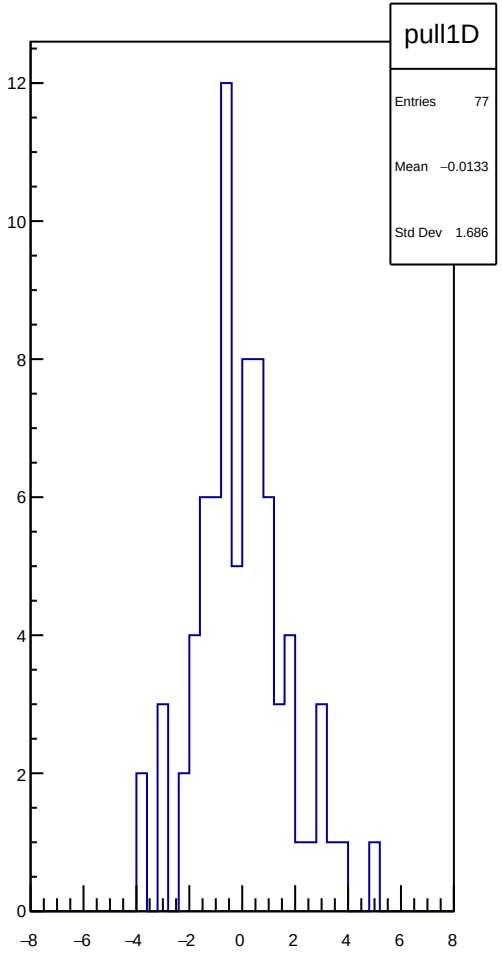

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 258.5 / 76
p0 18.6 ± 0.2021
pull
Entries 77
Mean 442.9
Std Dev 405.5

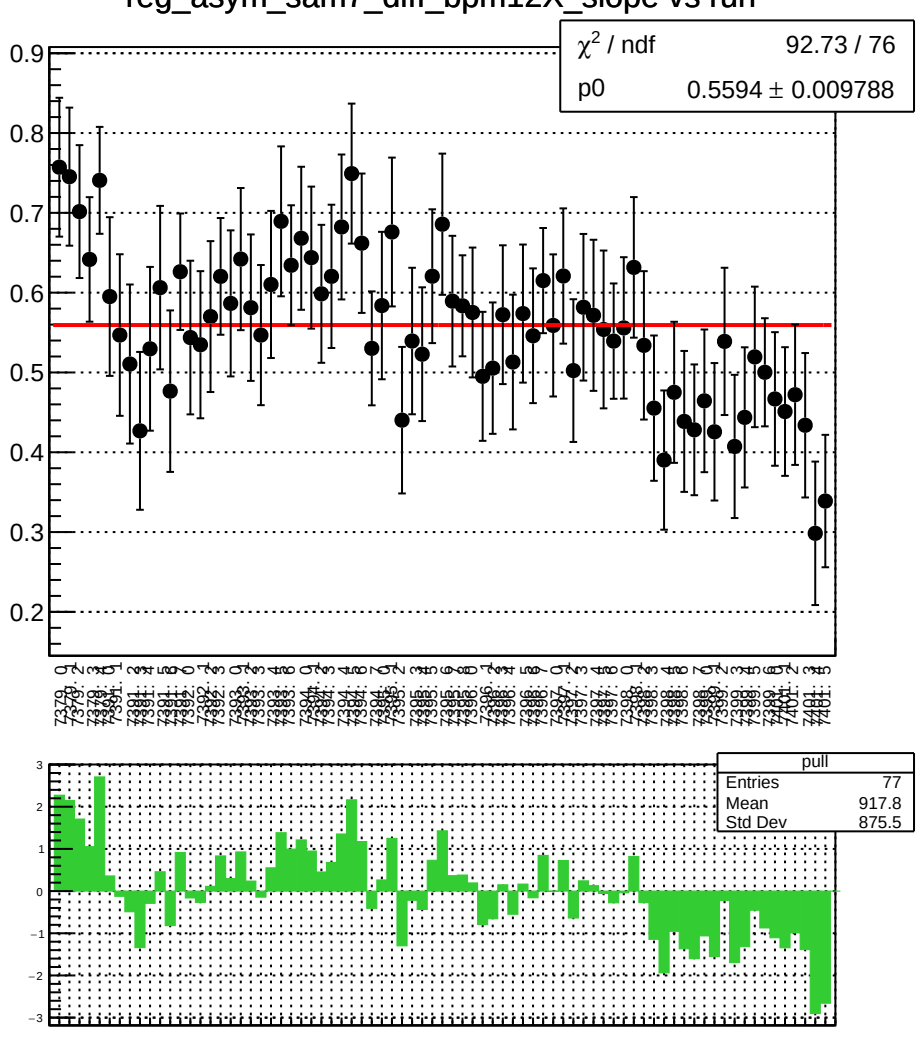

pull1D
Entries 77
Mean 0.04482
Std Dev 1.832

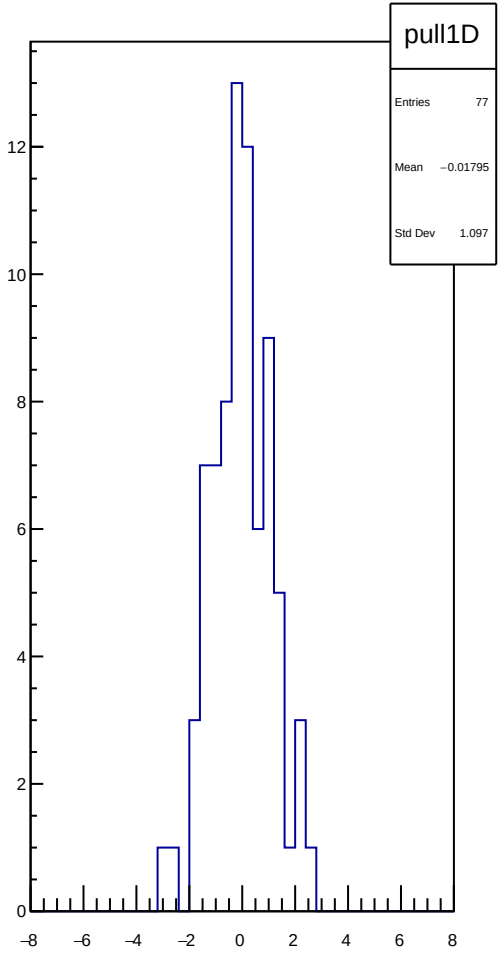

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 728.6 / 76
p0 −35.04 ± 0.1996
pull
Entries 77
Mean −52.8
Std Dev 87.14

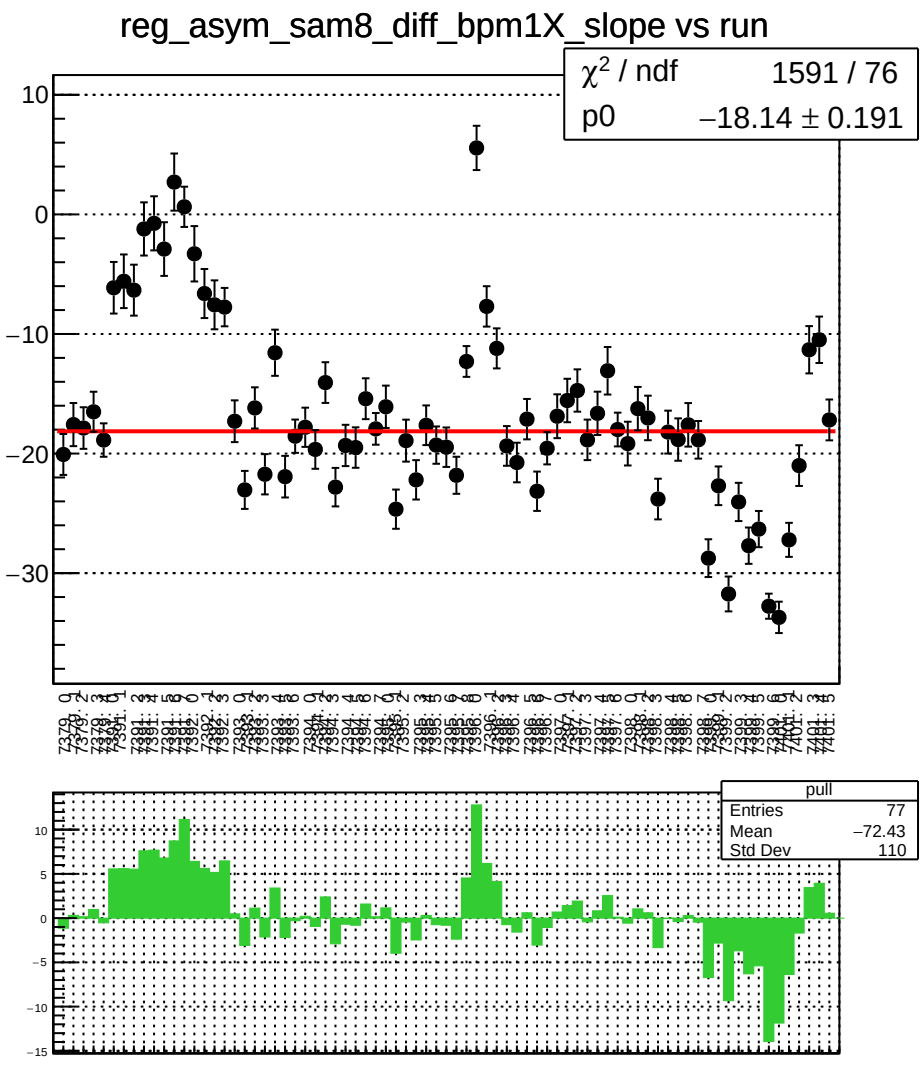

pull1D
Entries 77
Mean −0.3271
Std Dev 3.059

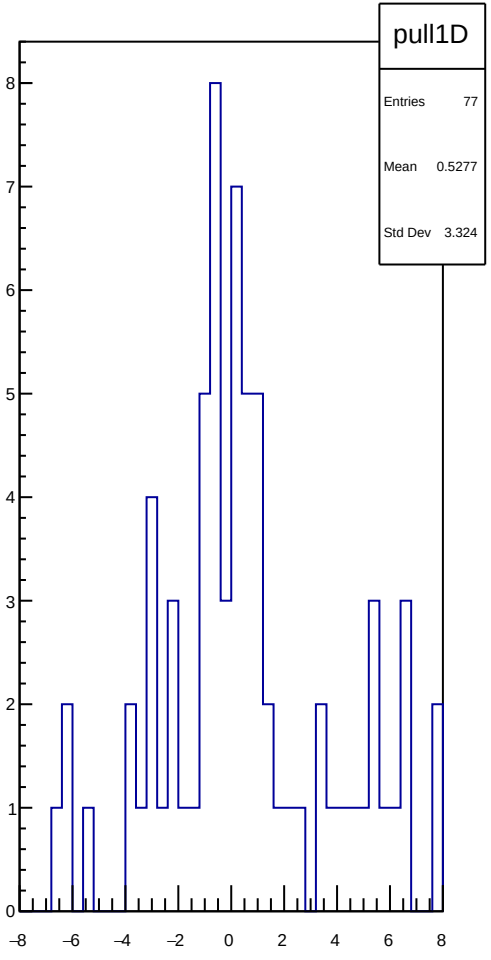

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 218.9 / 76
p0 −23.72 ± 0.2155
pull
Entries 77
Mean 1335
Std Dev 1298

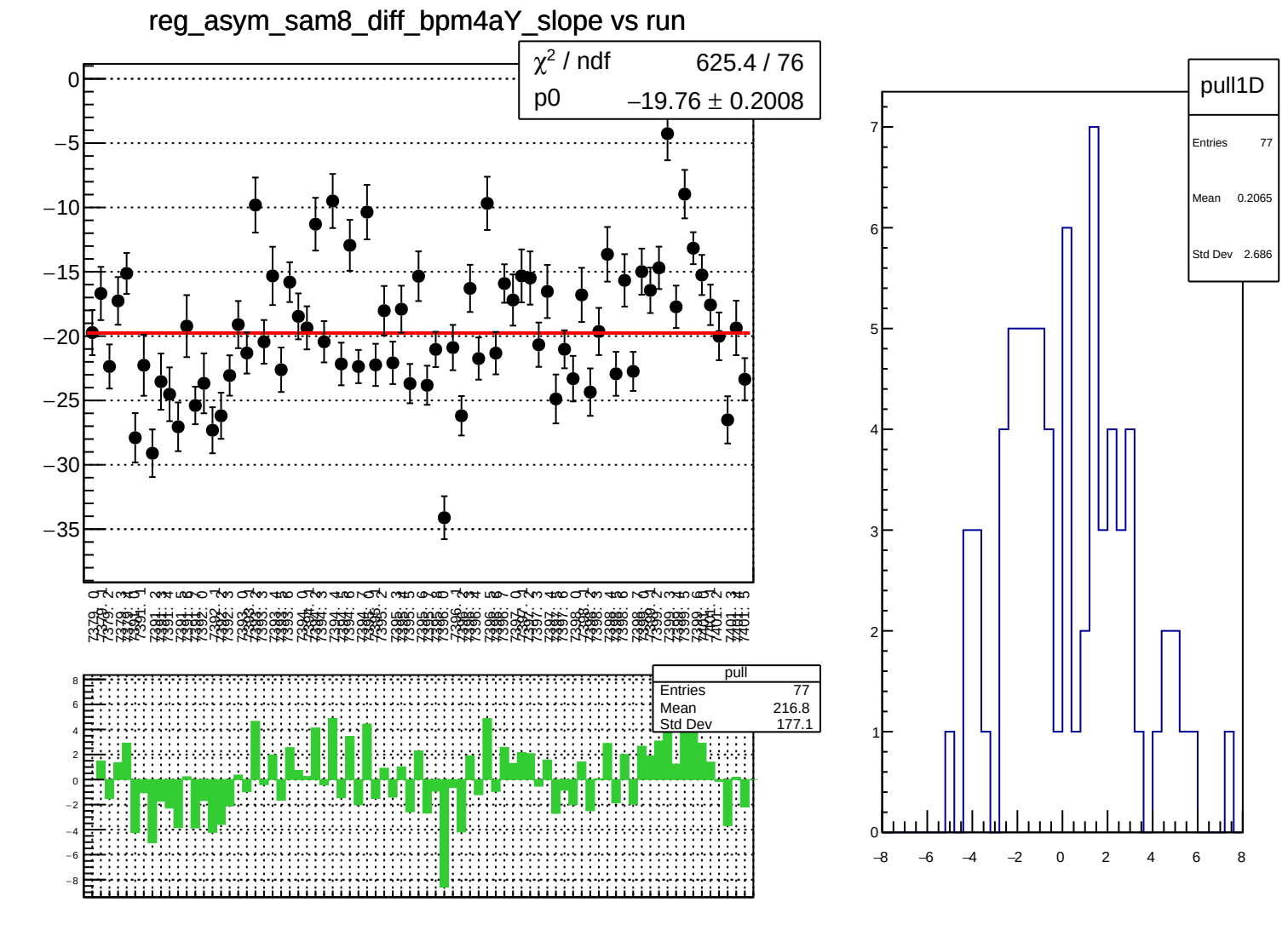

pull1D
Entries 77
Mean −0.0133
Std Dev 1.686

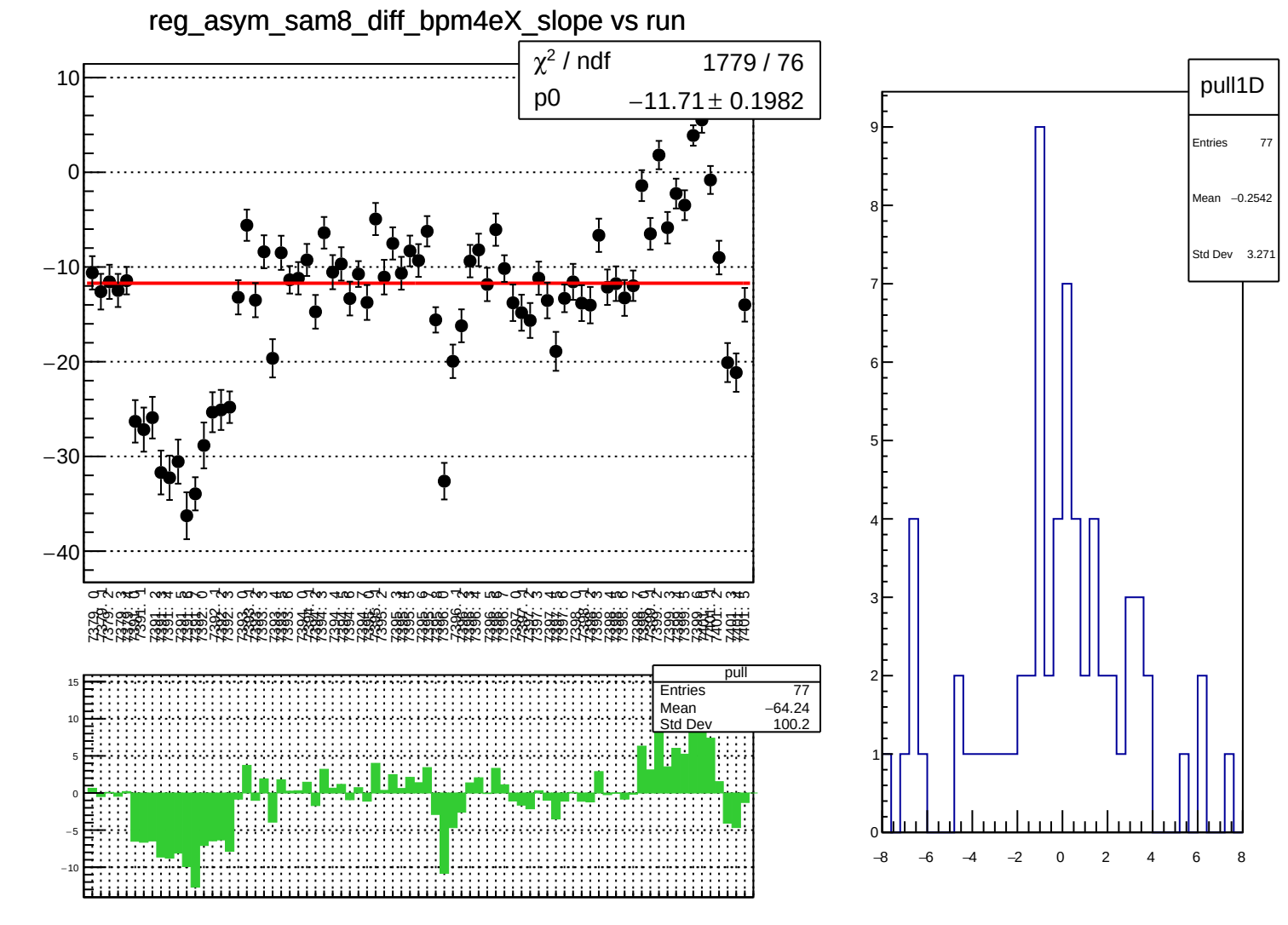

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 92.73 / 76
p0 0.5594 ± 0.009788
pull
Entries 77
Mean 917.8
Std Dev 875.5

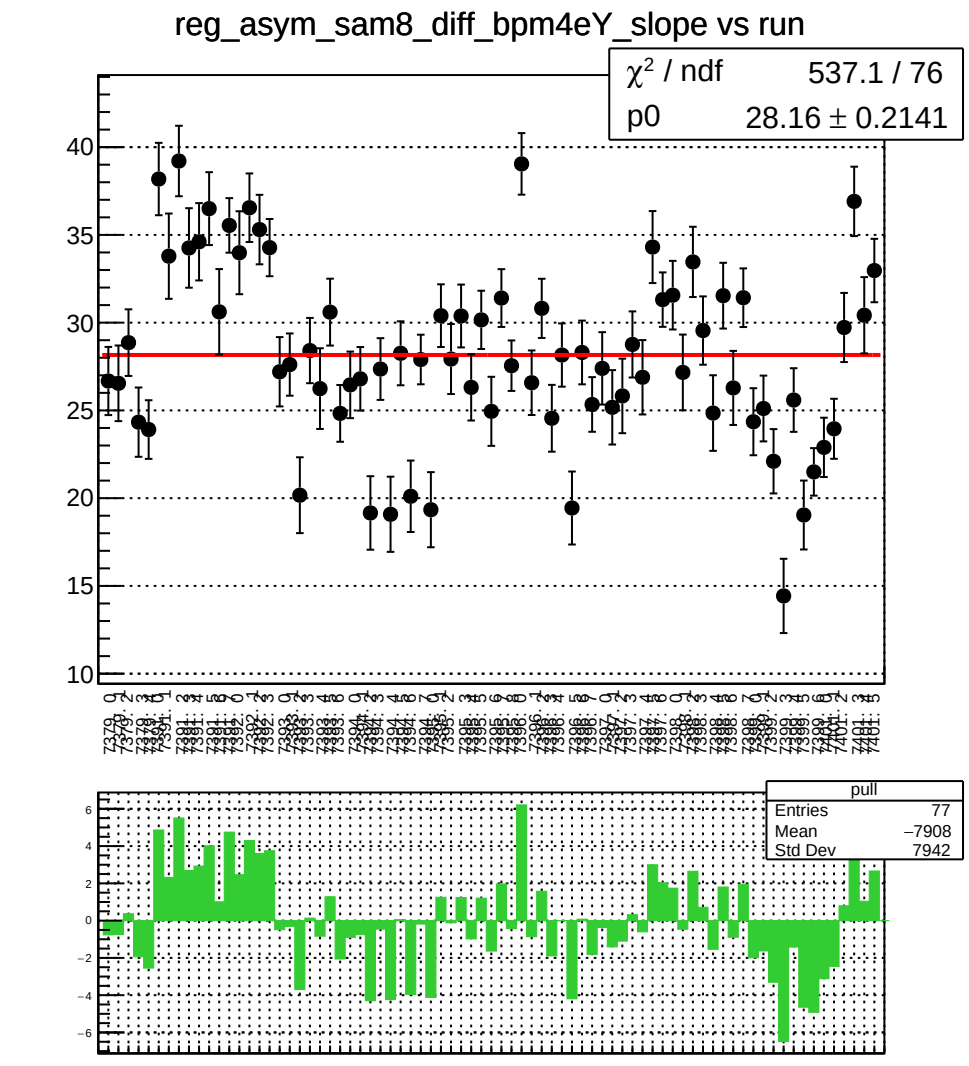

pull1D
Entries 77
Mean −0.01795
Std Dev 1.097

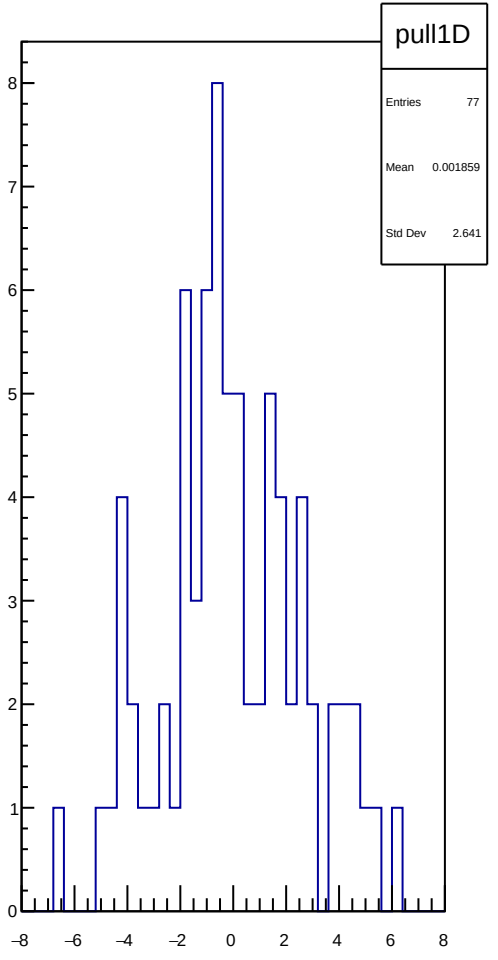

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 1591 / 76
p0 −18.14 ± 0.191
pull
Entries 77
Mean −72.43
Std Dev 110

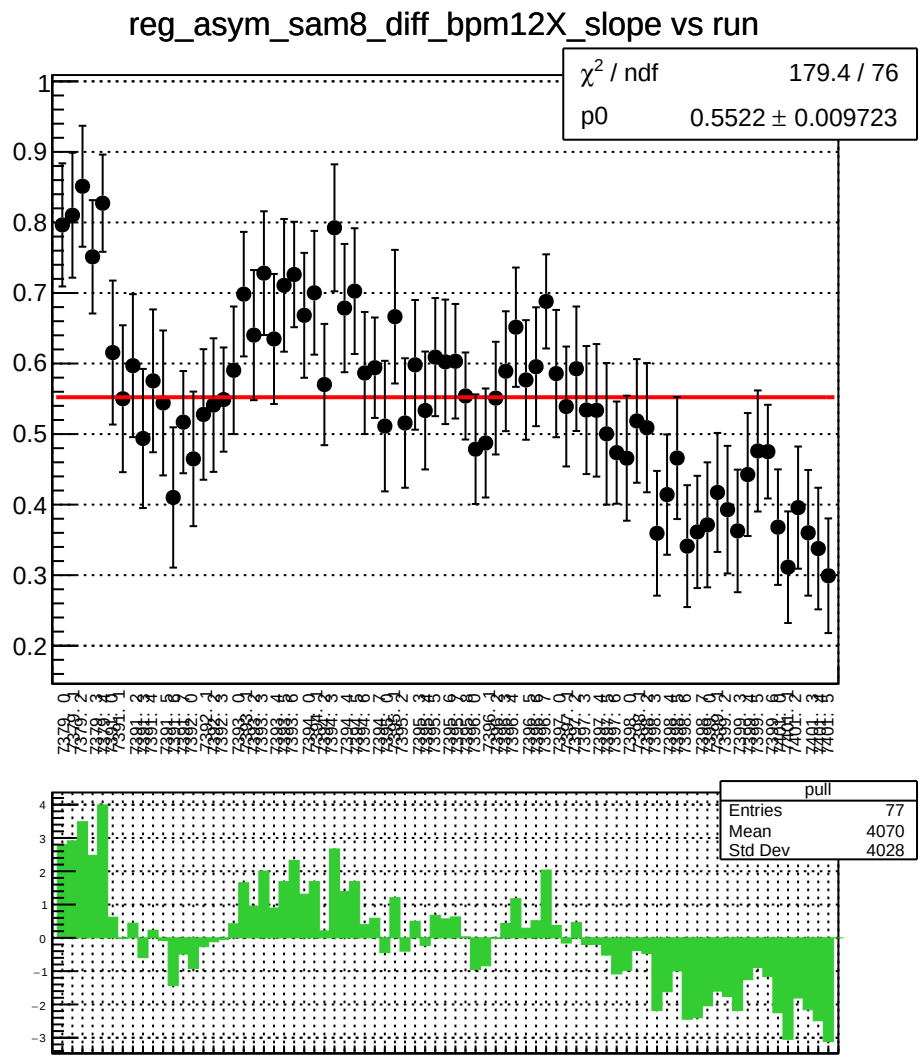

pull1D
Entries 77
Mean 0.5277
Std Dev 3.324

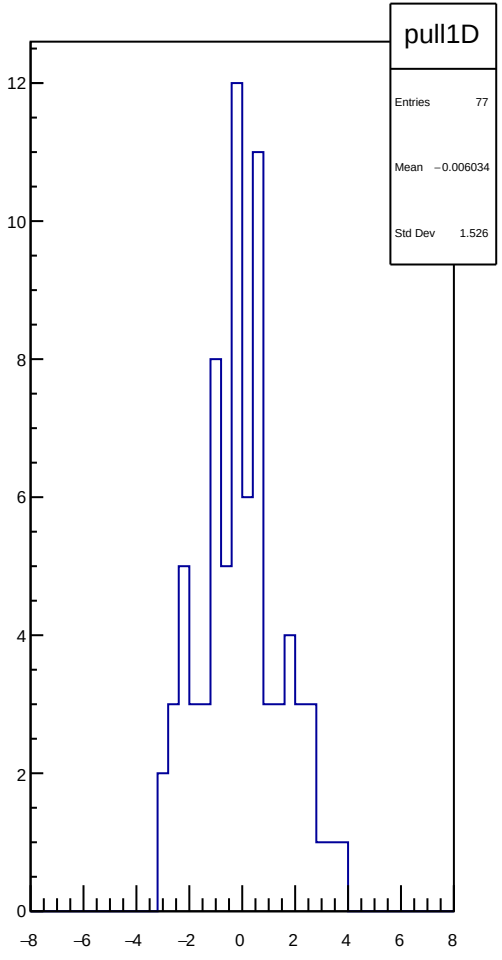

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 625.4 / 76
p0 −19.76 ± 0.2008
pull
Entries 77
Mean 216.8
Std Dev 177.1
pull1D
Entries 77
Mean 0.2065
Std Dev 2.686

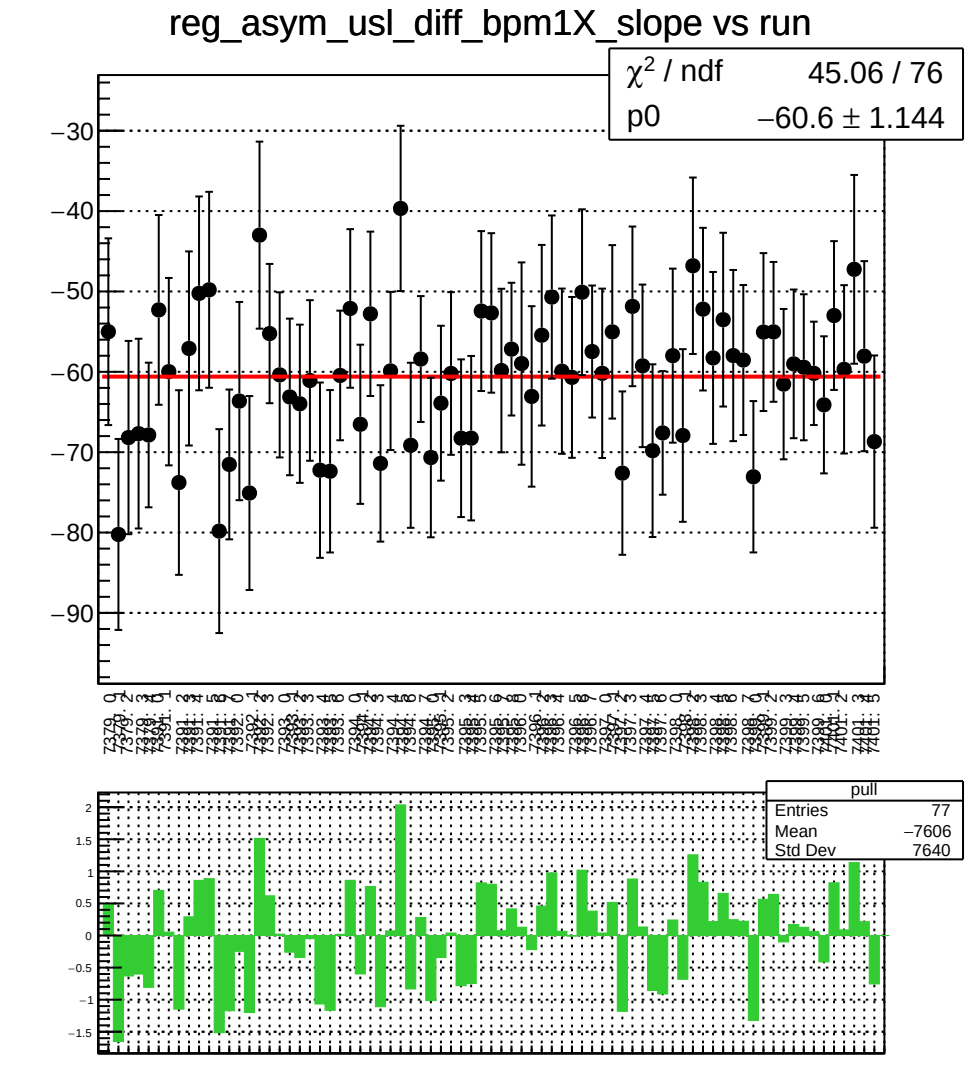

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 1779 / 76
p0 −11.71 ± 0.1982
pull
Entries 77
Mean −64.24
Std Dev 100.2
pull1D
Entries 77
Mean −0.2542
Std Dev 3.271

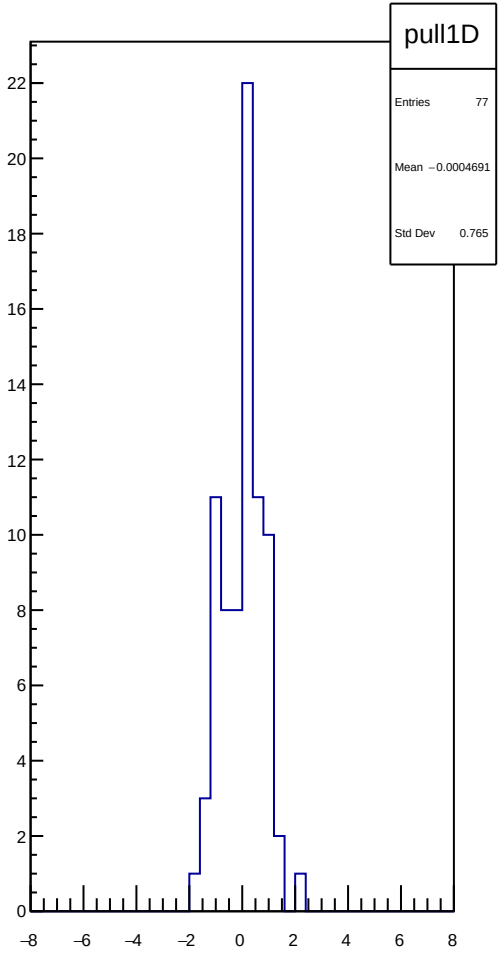

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 537.1 / 76
p0 28.16 ± 0.2141
pull
Entries 77
Mean −7908
Std Dev 7942

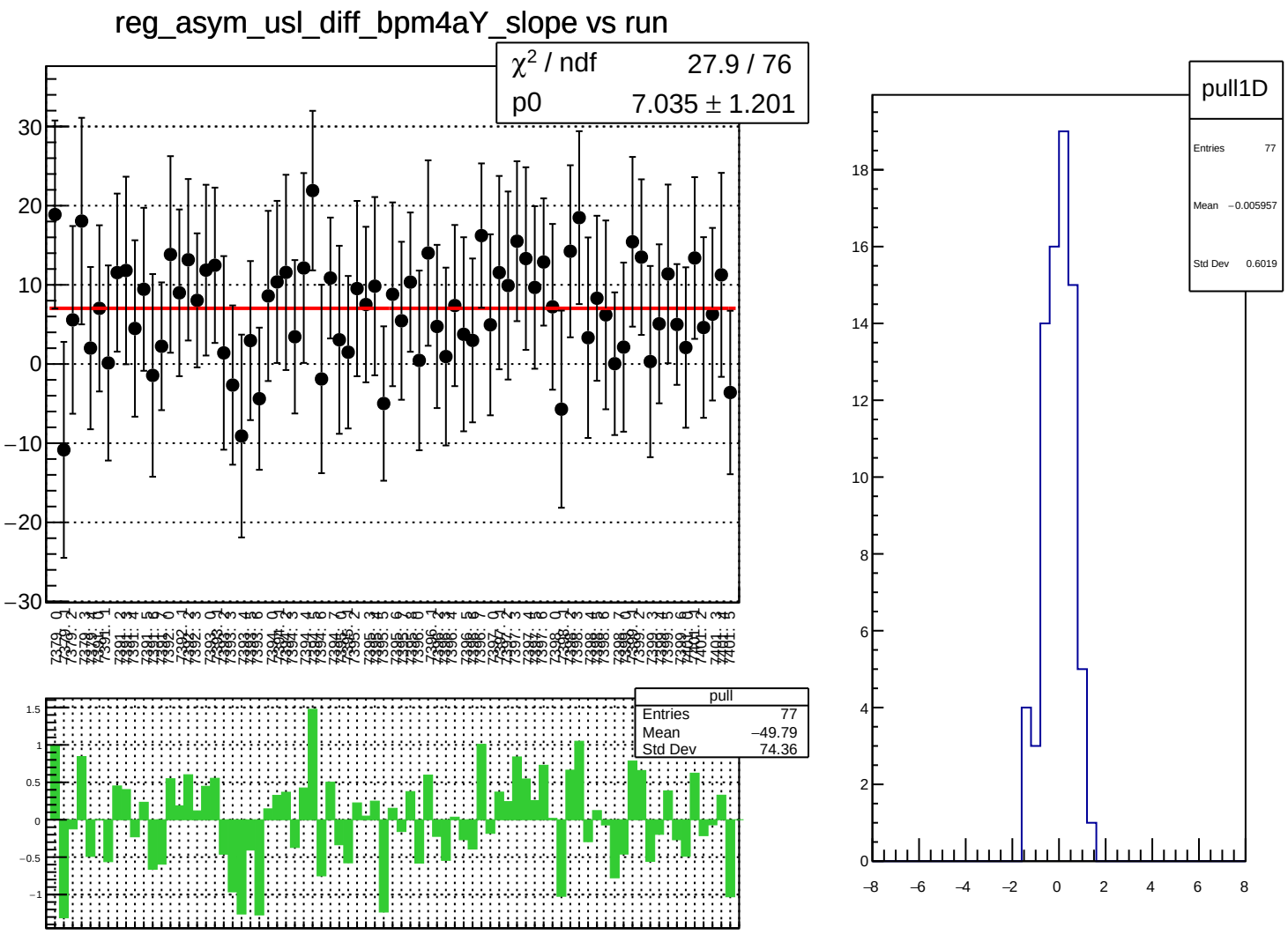

pull1D
Entries 77
Mean 0.001859
Std Dev 2.641

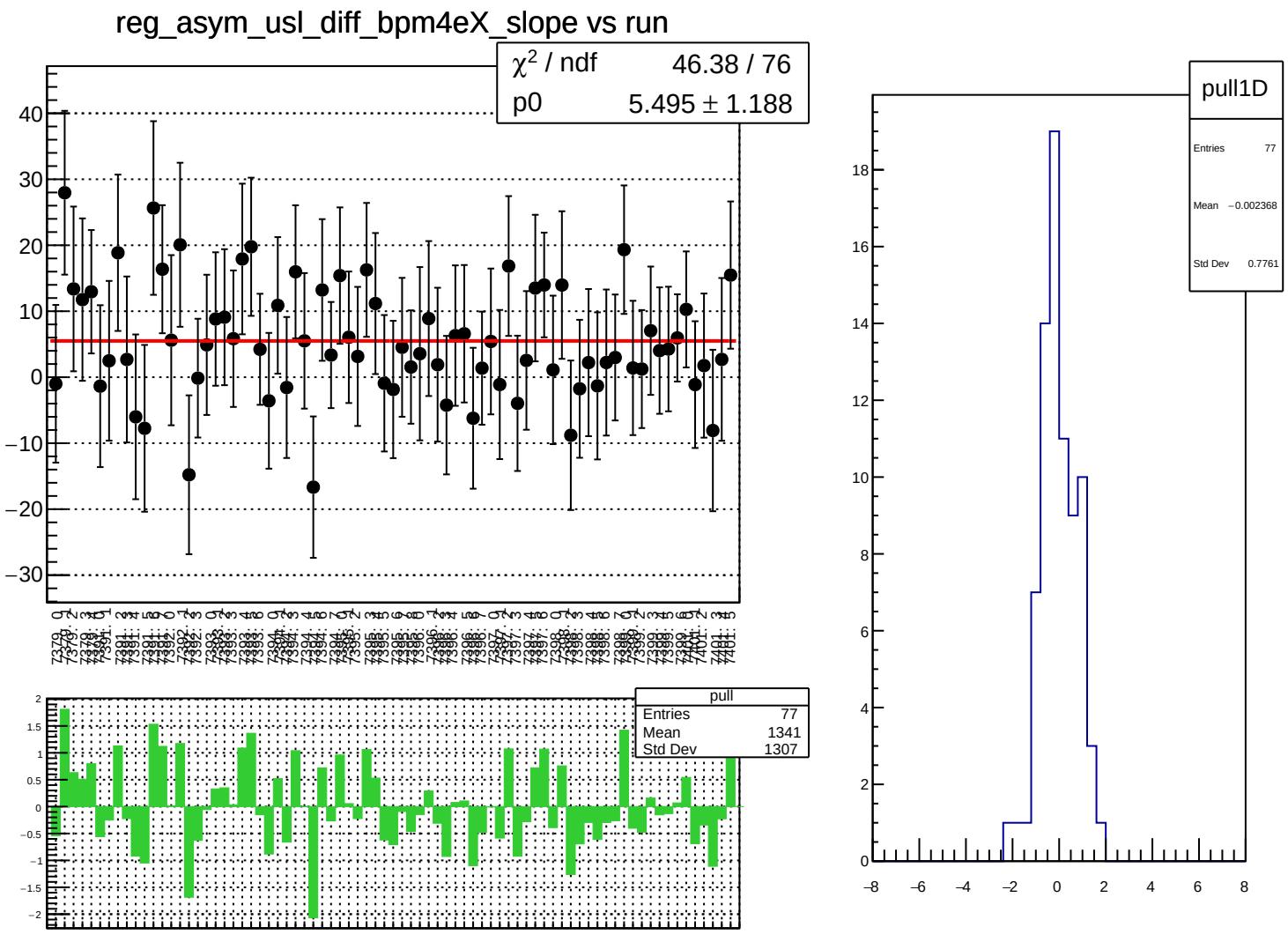

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 179.4 / 76
p0 0.5522 ± 0.009723
pull
Entries 77
Mean 4070
Std Dev 4028

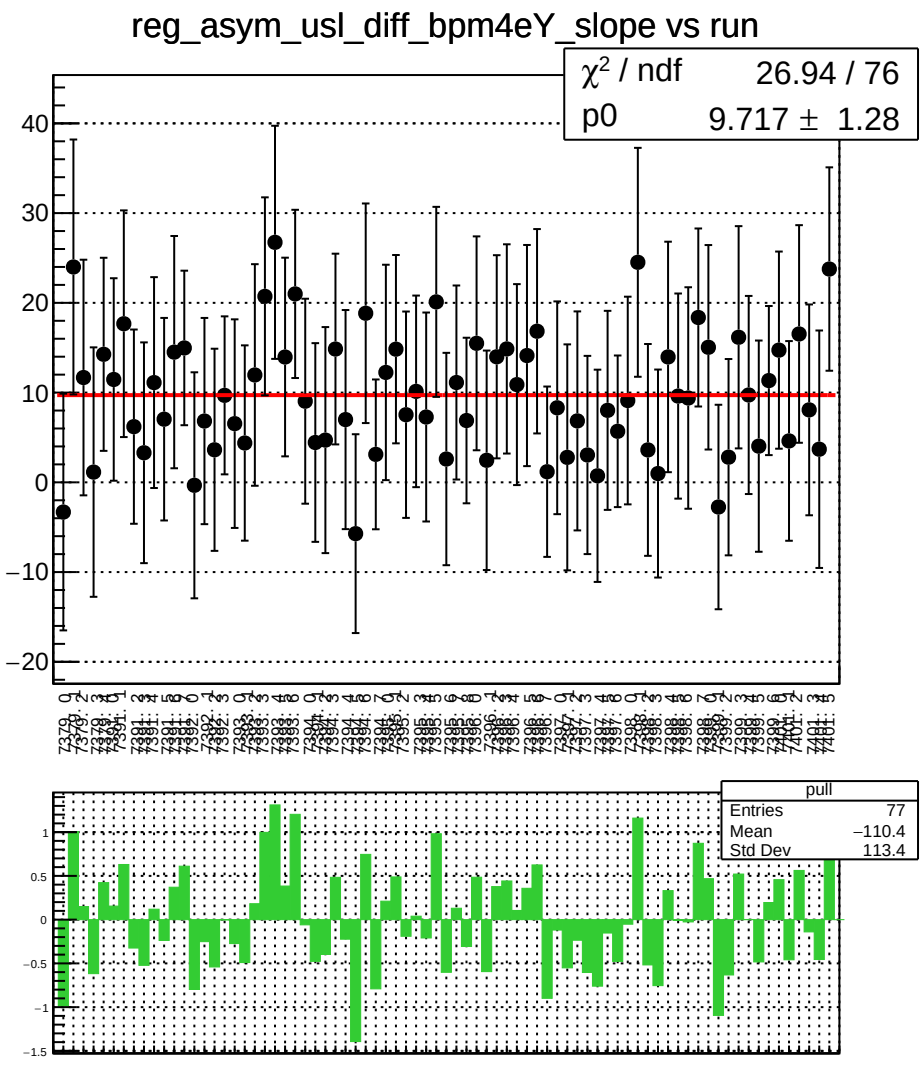

pull1D
Entries 77
Mean −0.006034
Std Dev 1.526

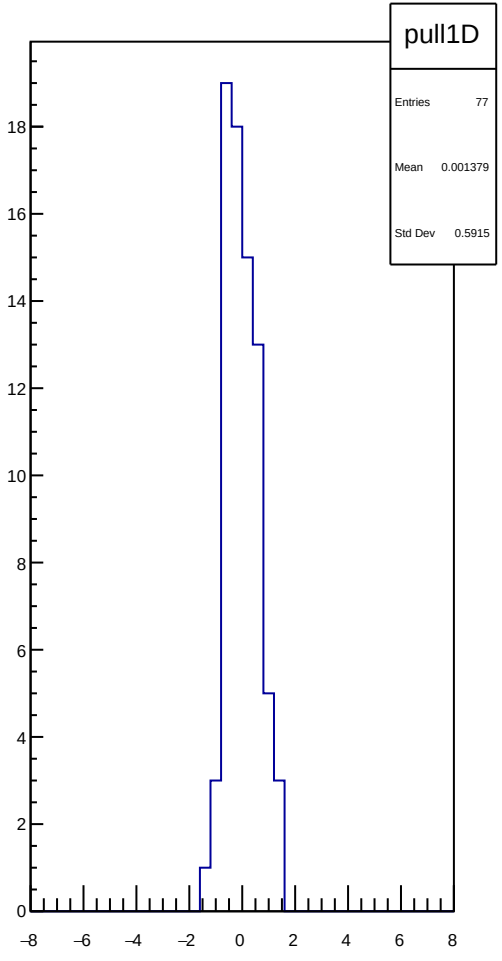

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 45.06 / 76
p0 −60.6 ± 1.144
pull
Entries 77
Mean −7606
Std Dev 7640

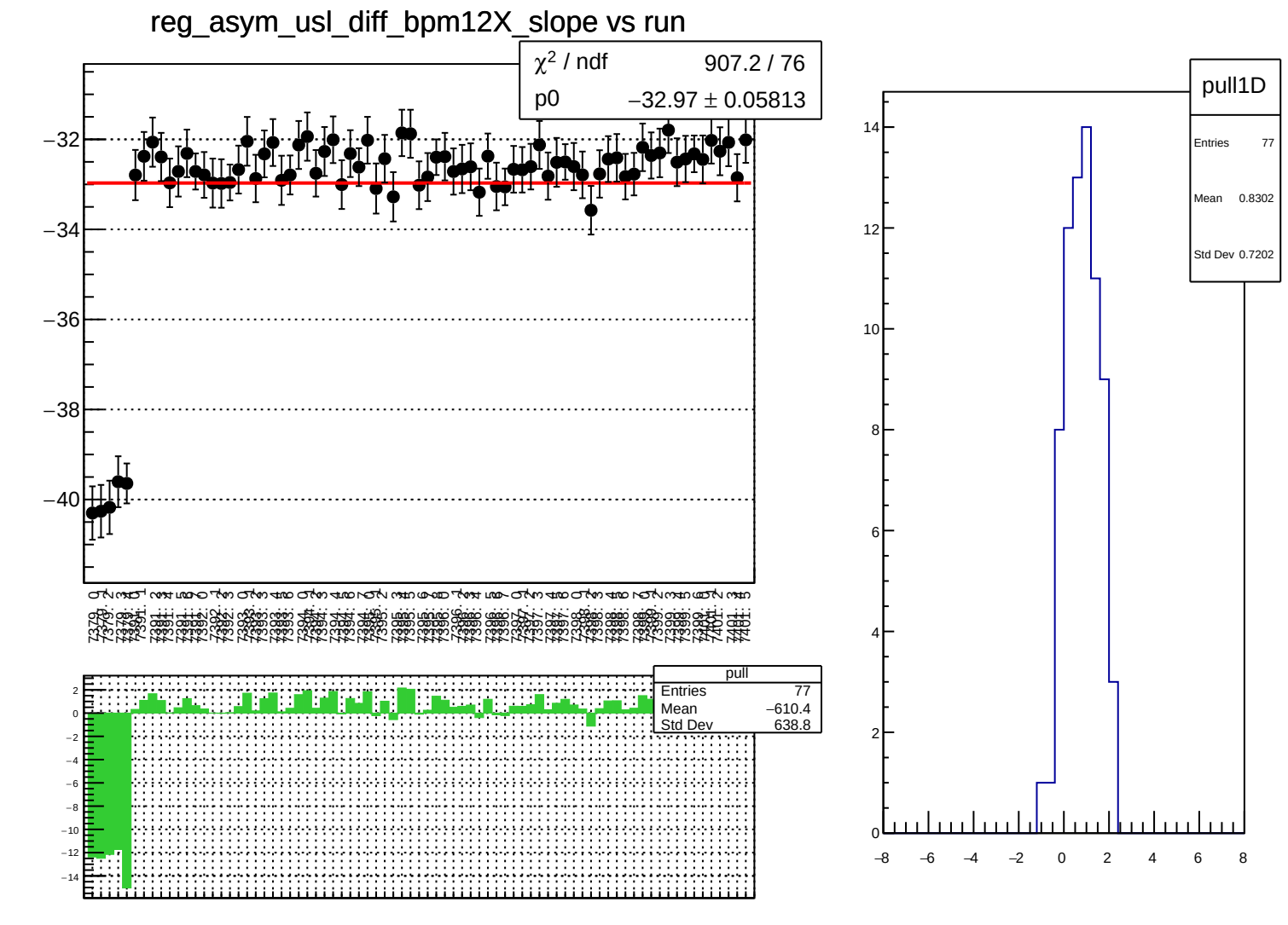

pull1D
Entries 77
Mean −0.0004691
Std Dev 0.765

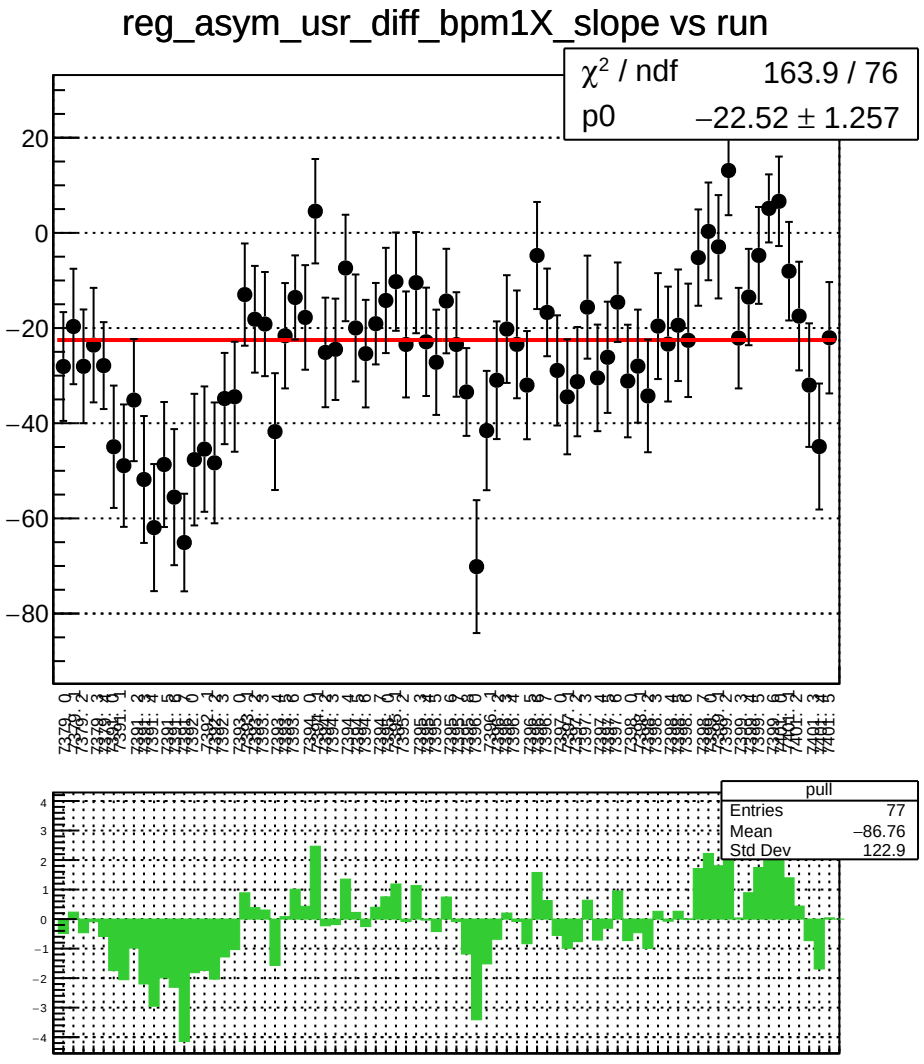

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 27.9 / 76
p0 7.035 ± 1.201
pull
Entries 77
Mean −49.79
Std Dev 74.36
pull1D
Entries 77
Mean −0.005957
Std Dev 0.6019

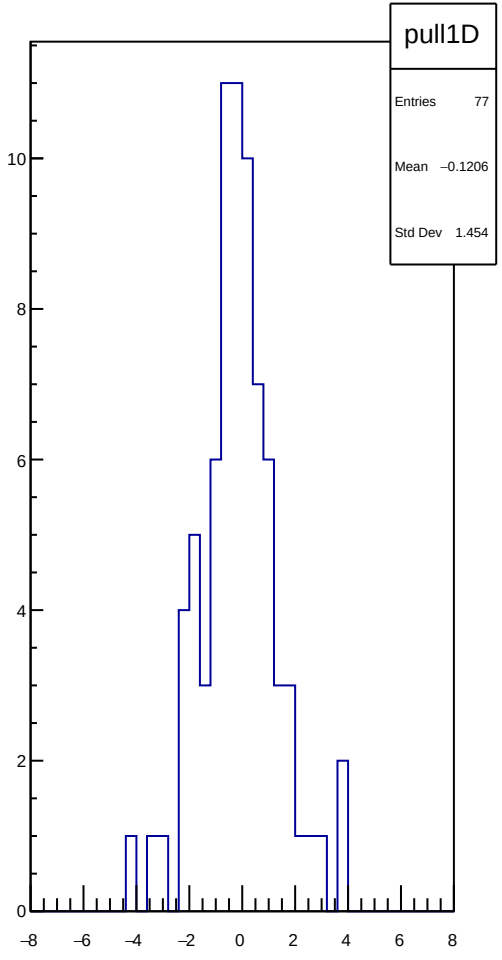

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 46.38 / 76
p0 5.495 ± 1.188
pull
Entries 77
Mean 1341
Std Dev 1307
pull1D
Entries 77
Mean −0.002368
Std Dev 0.7761

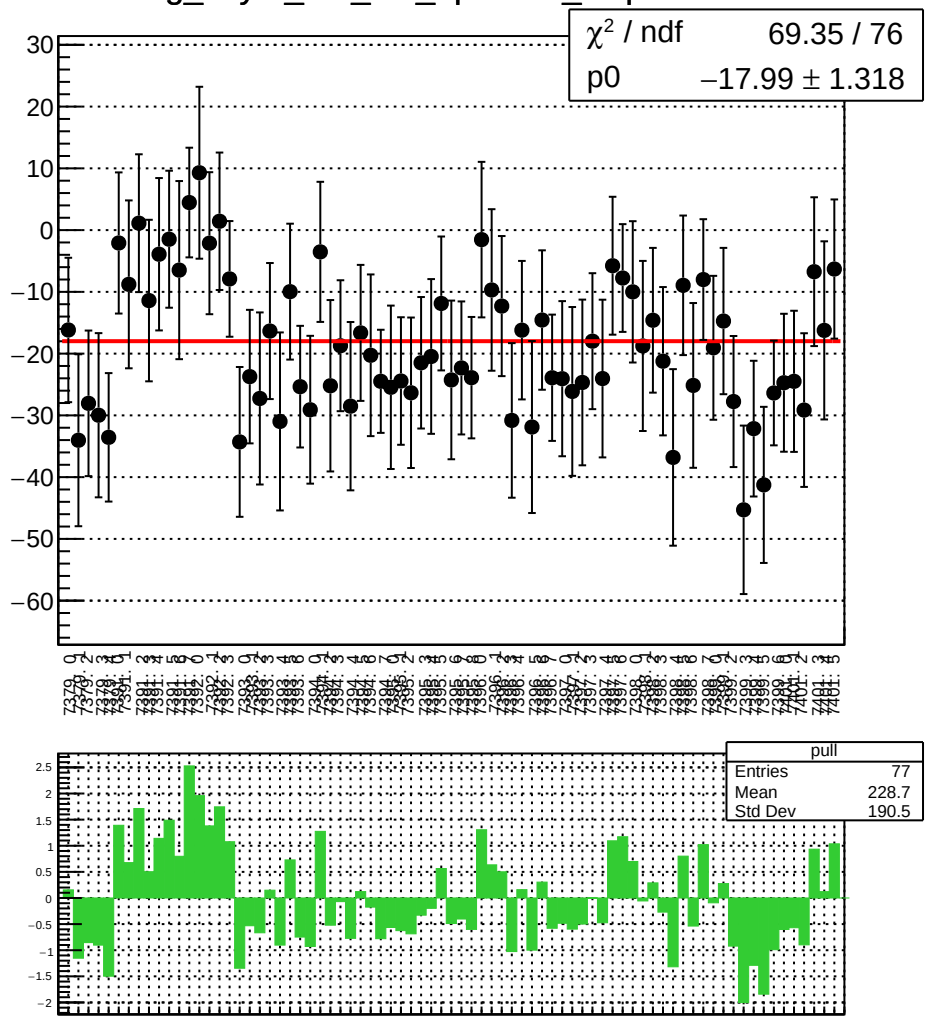

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 26.94 / 76
p0 9.717 ± 1.28
pull
Entries 77
Mean −110.4
Std Dev 113.4

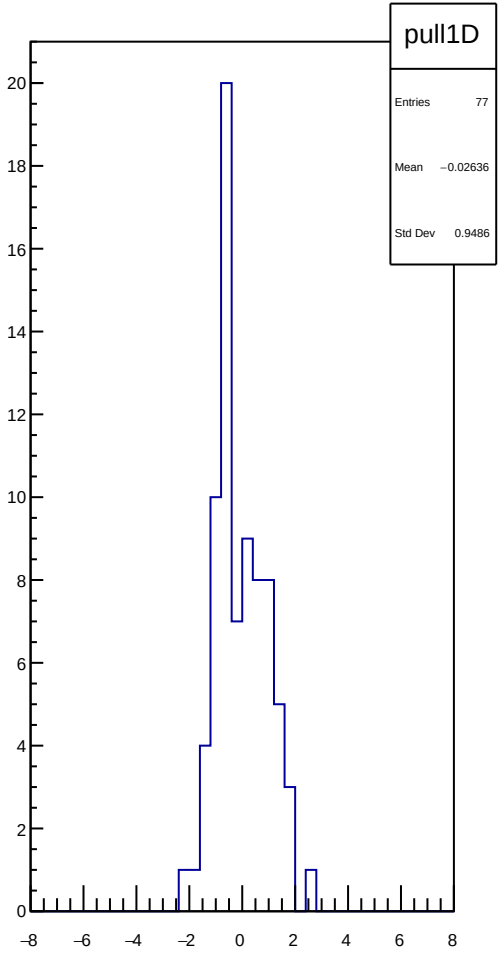

pull1D
Entries 77
Mean 0.001379
Std Dev 0.5915

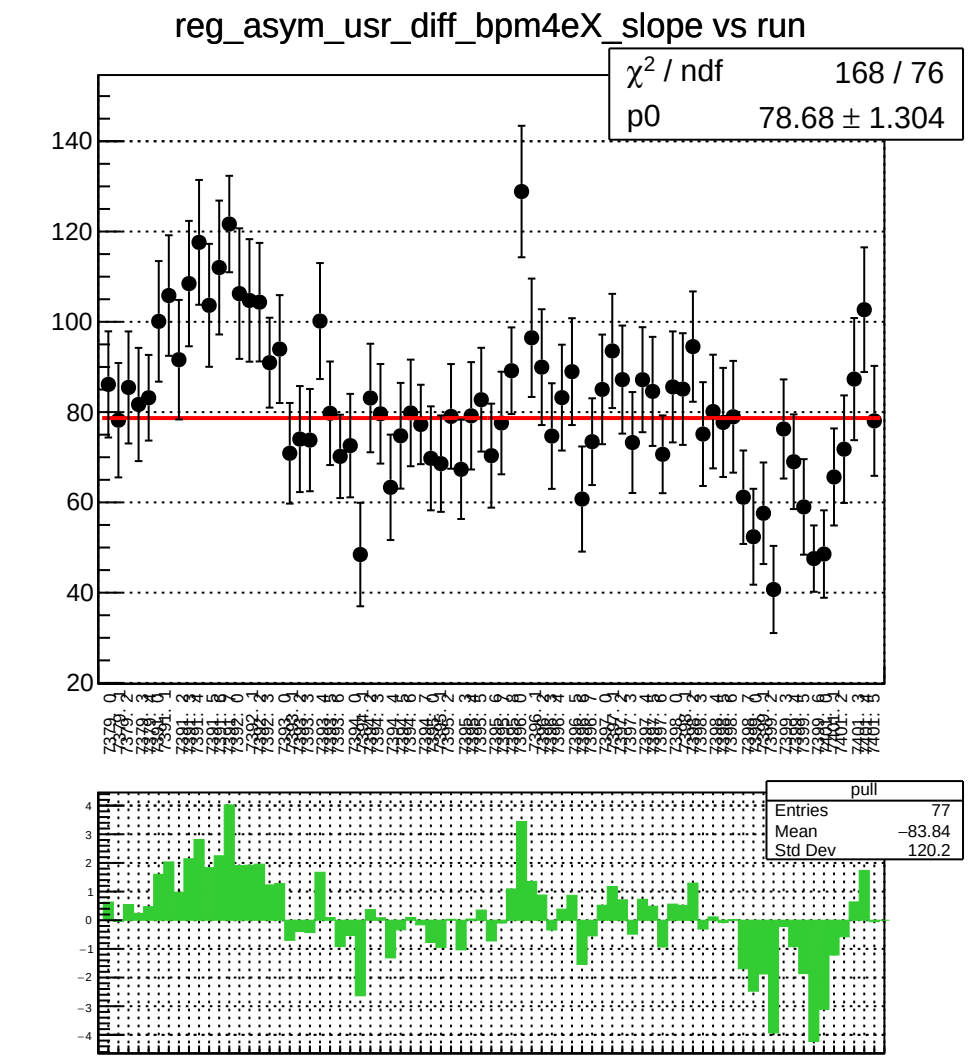

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 907.2 / 76
p0 −32.97 ± 0.05813
−32
−34
−36
−38
−40
pull
Entries 77
Mean −610.4
Std Dev 638.8
pull1D
Entries 77
Mean 0.8302
Std Dev 0.7202

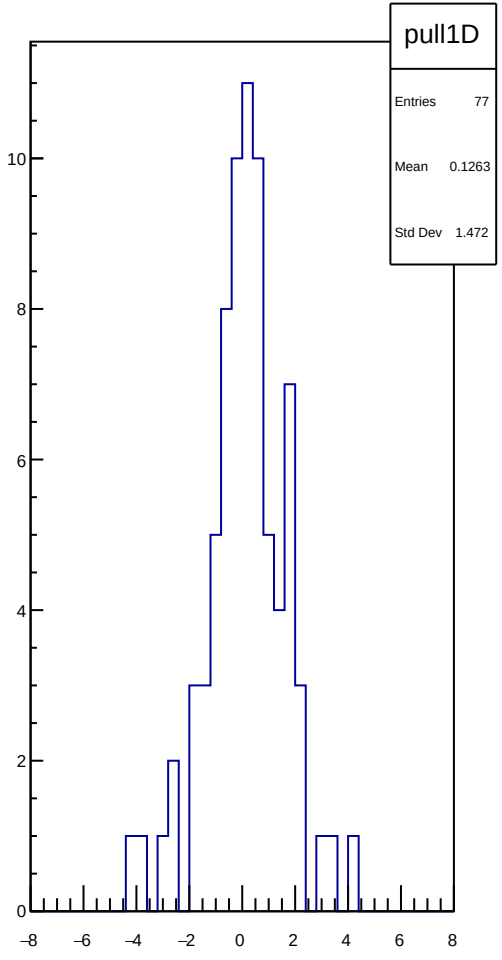

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 163.9 / 76
p0 −22.52 ± 1.257
pull
Entries 77
Mean −86.76
Std Dev 122.9

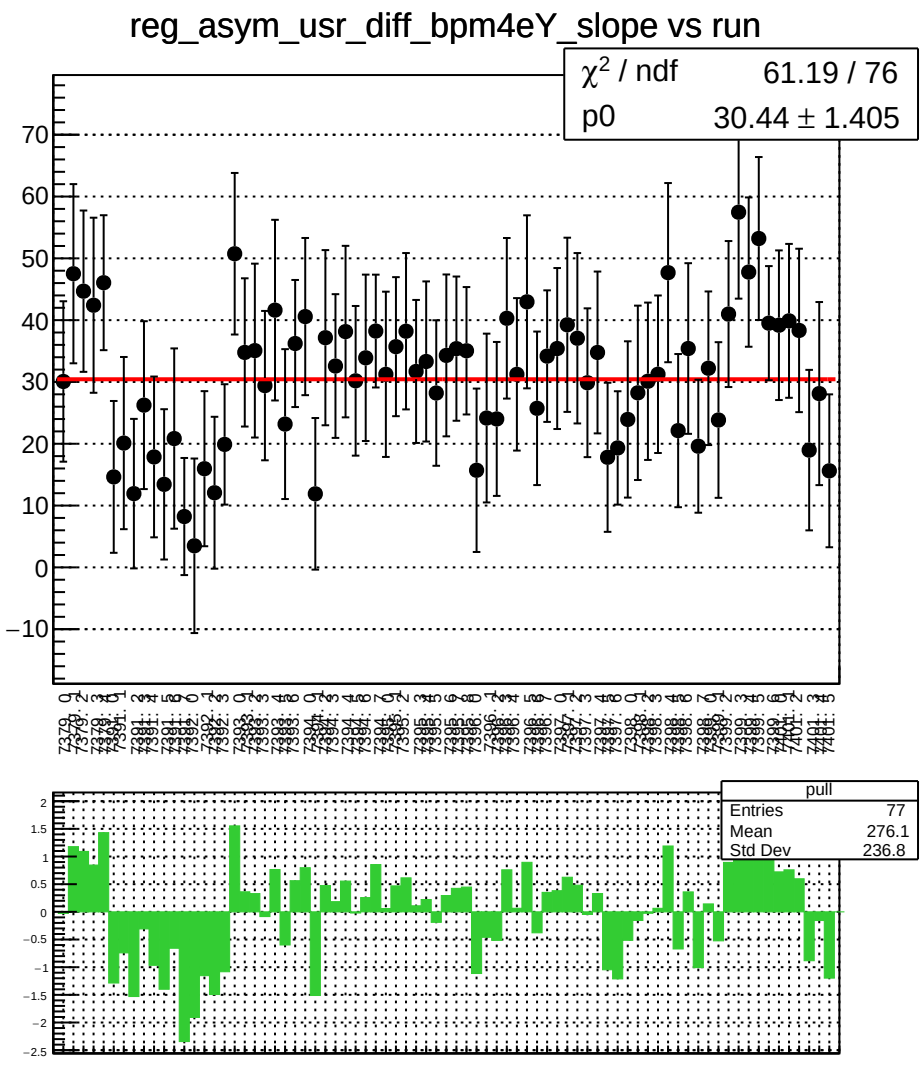

pull1D
Entries 77
Mean −0.1206
Std Dev 1.454

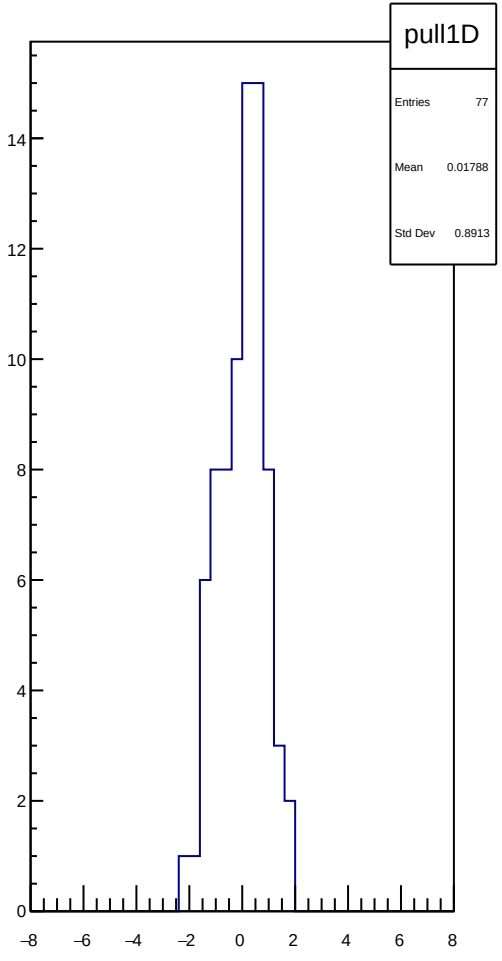

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 69.35 / 76
p0 −17.99 ± 1.318
pull
Entries 77
Mean 228.7
Std Dev 190.5

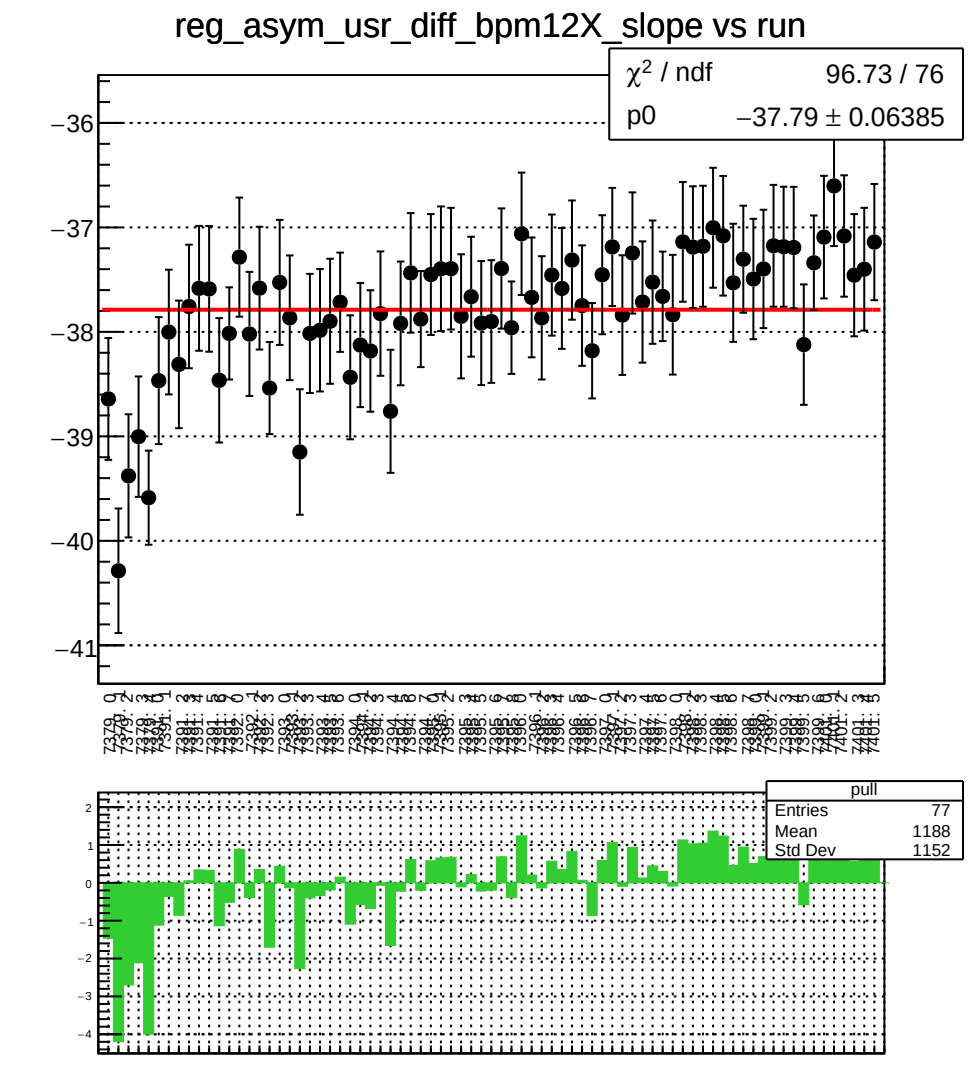

pull1D
Entries 77
Mean −0.02636
Std Dev 0.9486

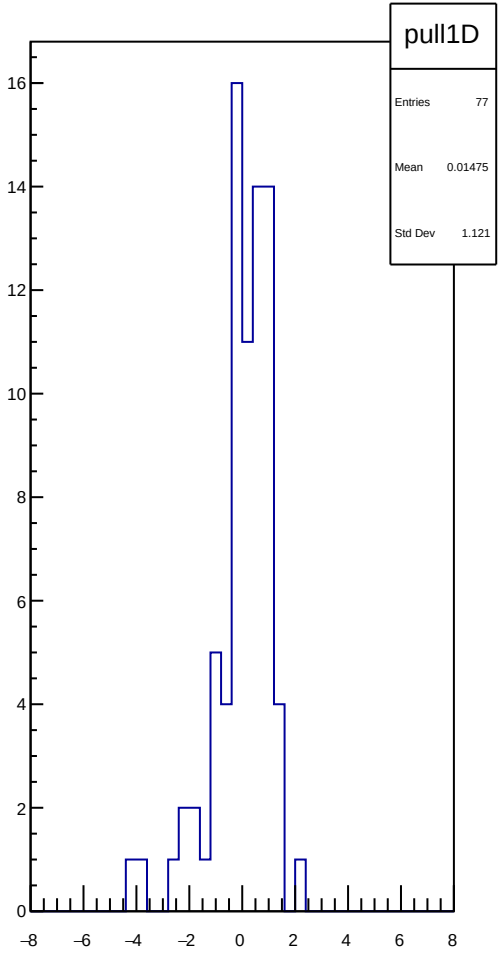

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 168 / 76
p0 78.68 ± 1.304
pull
Entries 77
Mean −83.84
Std Dev 120.2

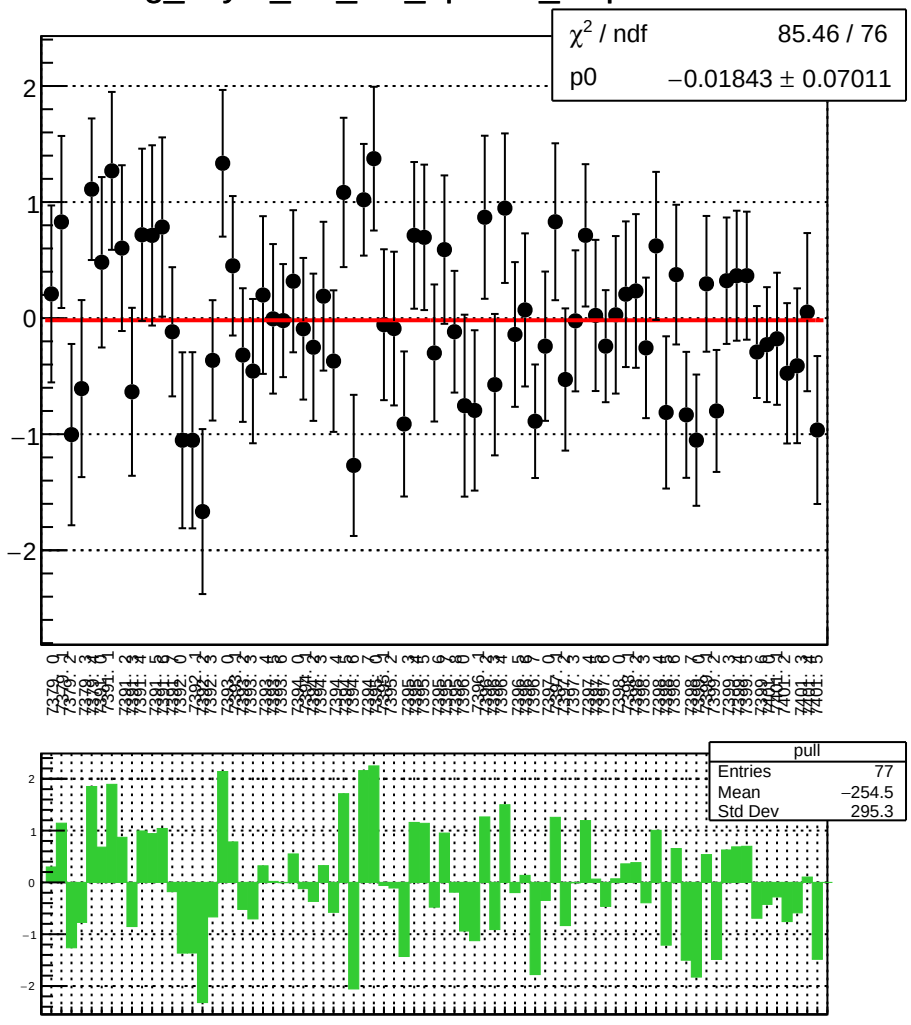

pull1D
Entries 77
Mean 0.1263
Std Dev 1.472

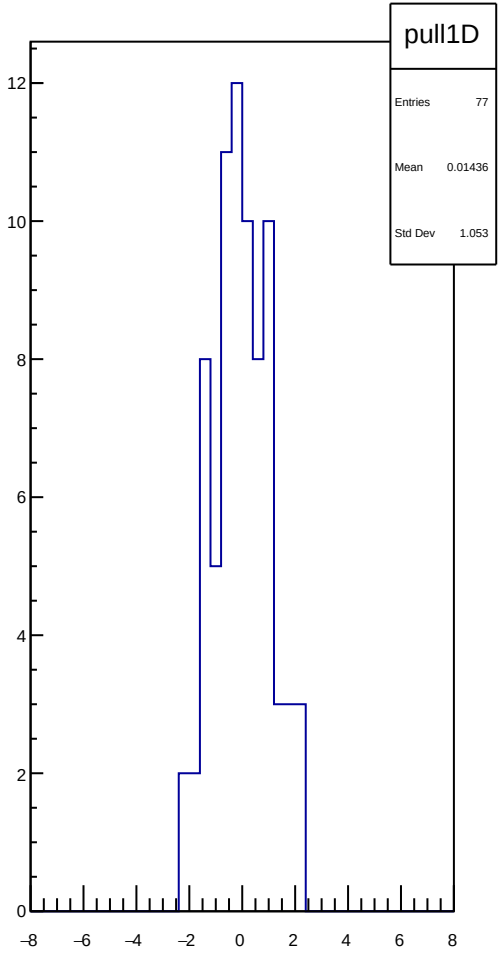

reg_asym_usr_diff_bpm4eY_slope vs run
χ^2 / ndf 61.19 / 76
p0 30.44 ± 1.405
pull
Entries 77
Mean 276.1
Std Dev 236.8

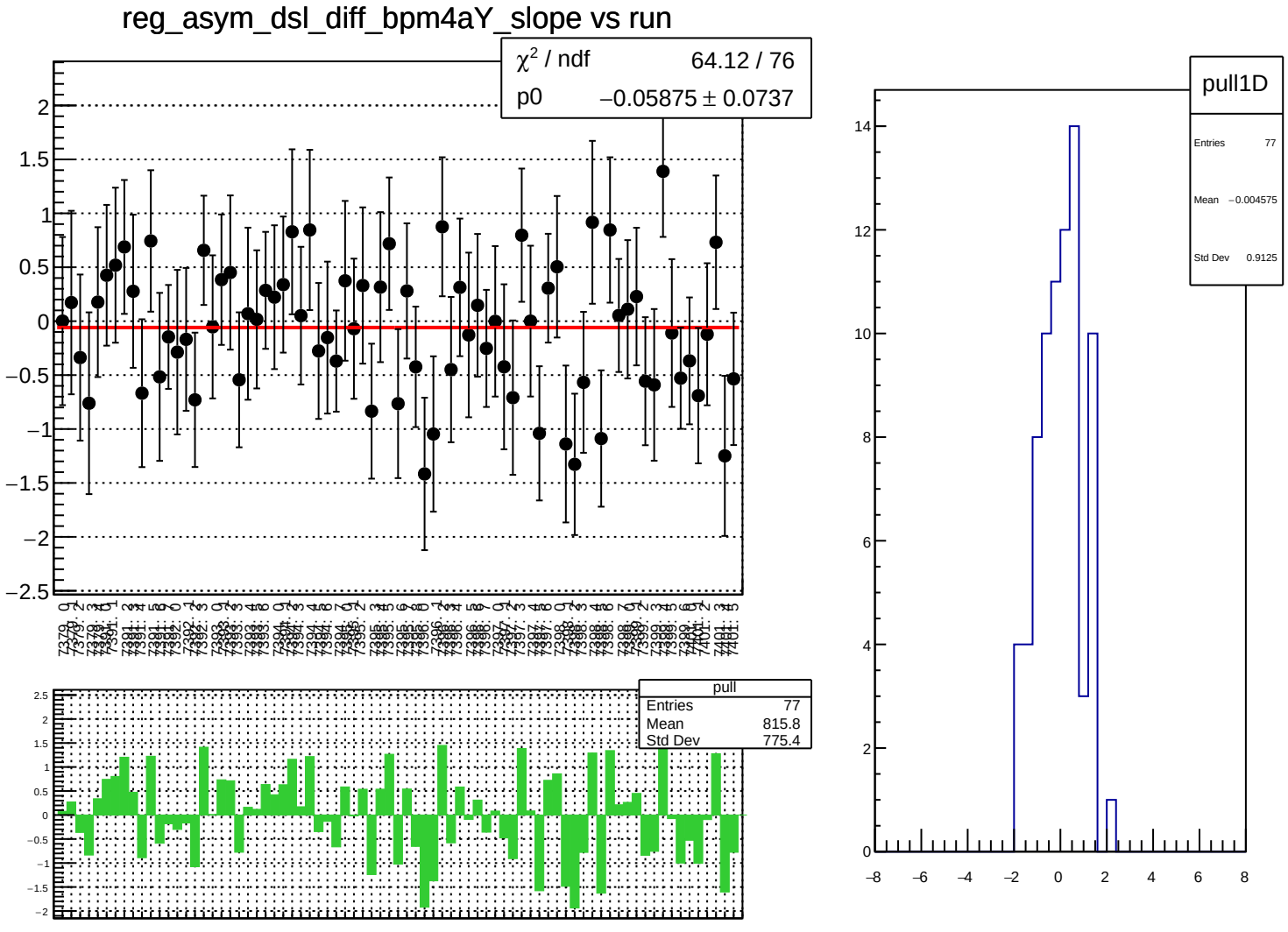

pull1D
Entries 77
Mean 0.01788
Std Dev 0.8913

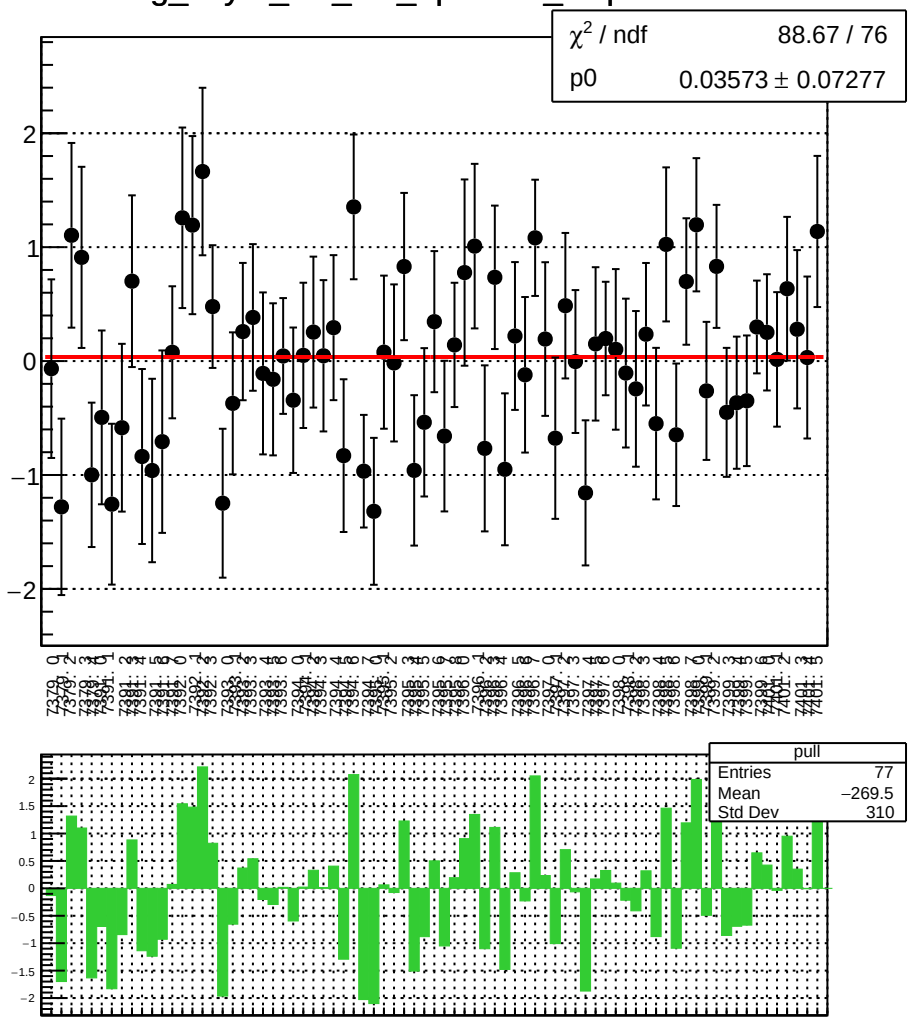

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 96.73 / 76
p0 −37.79 ± 0.06385
pull
Entries 77
Mean 1188
Std Dev 1152

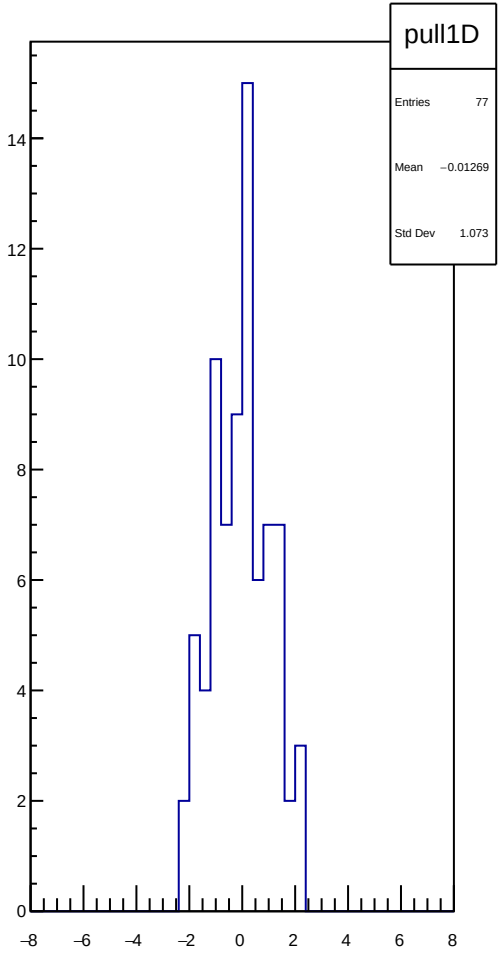

pull1D
Entries 77
Mean 0.01475
Std Dev 1.121

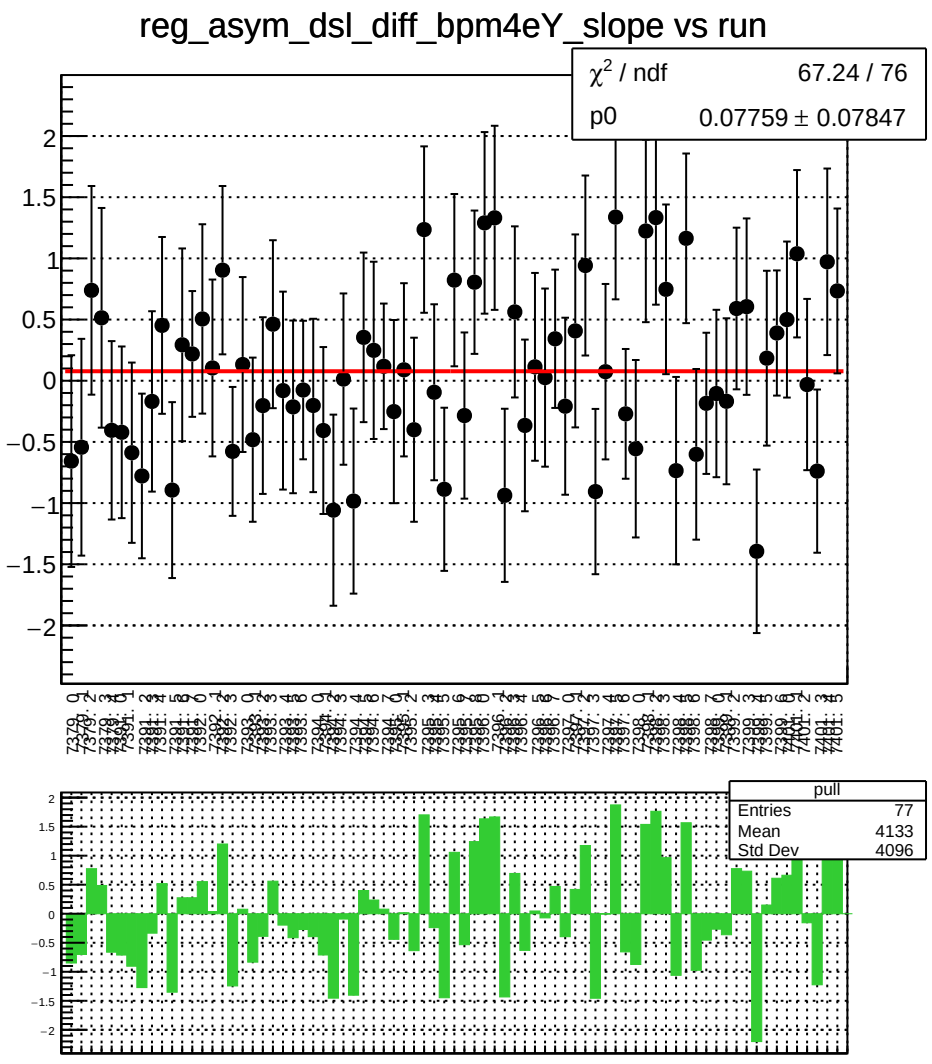

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 85.46 / 76
p0 −0.01843 ± 0.07011
pull
Entries 77
Mean −254.5
Std Dev 295.3

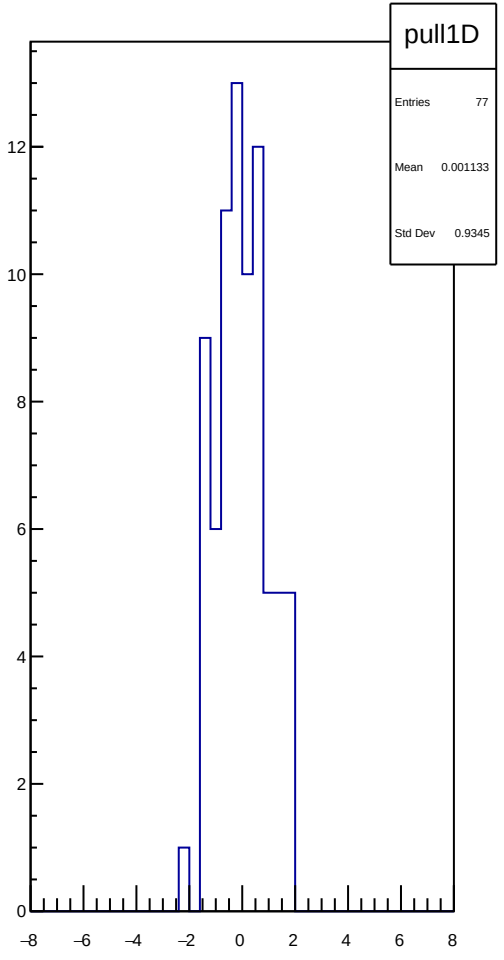

pull1D
Entries 77
Mean 0.01436
Std Dev 1.053

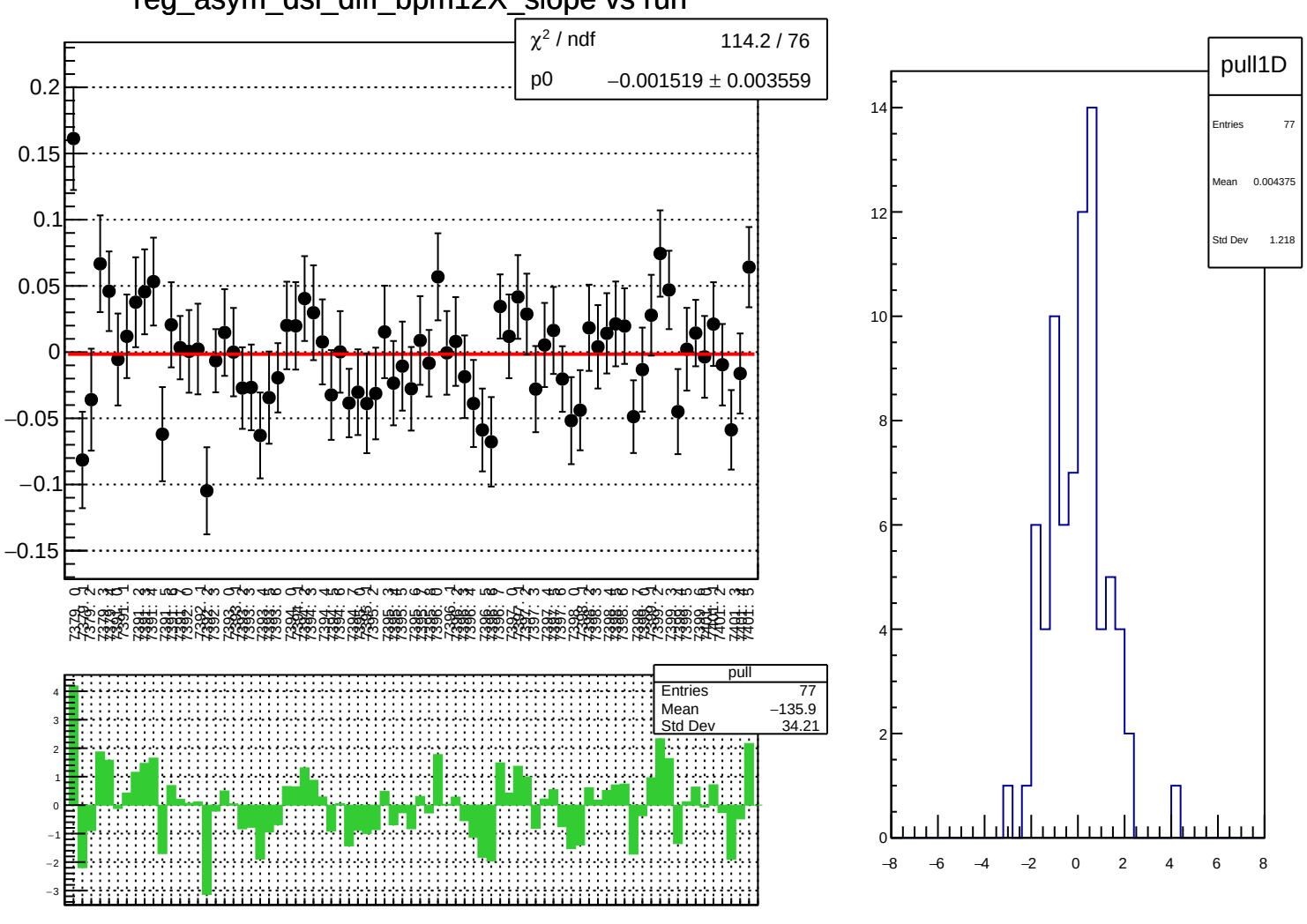

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 64.12 / 76
p0 −0.05875 ± 0.0737
pull
Entries 77
Mean 815.8
Std Dev 775.4
pull1D
Entries 77
Mean −0.004575
Std Dev 0.9125

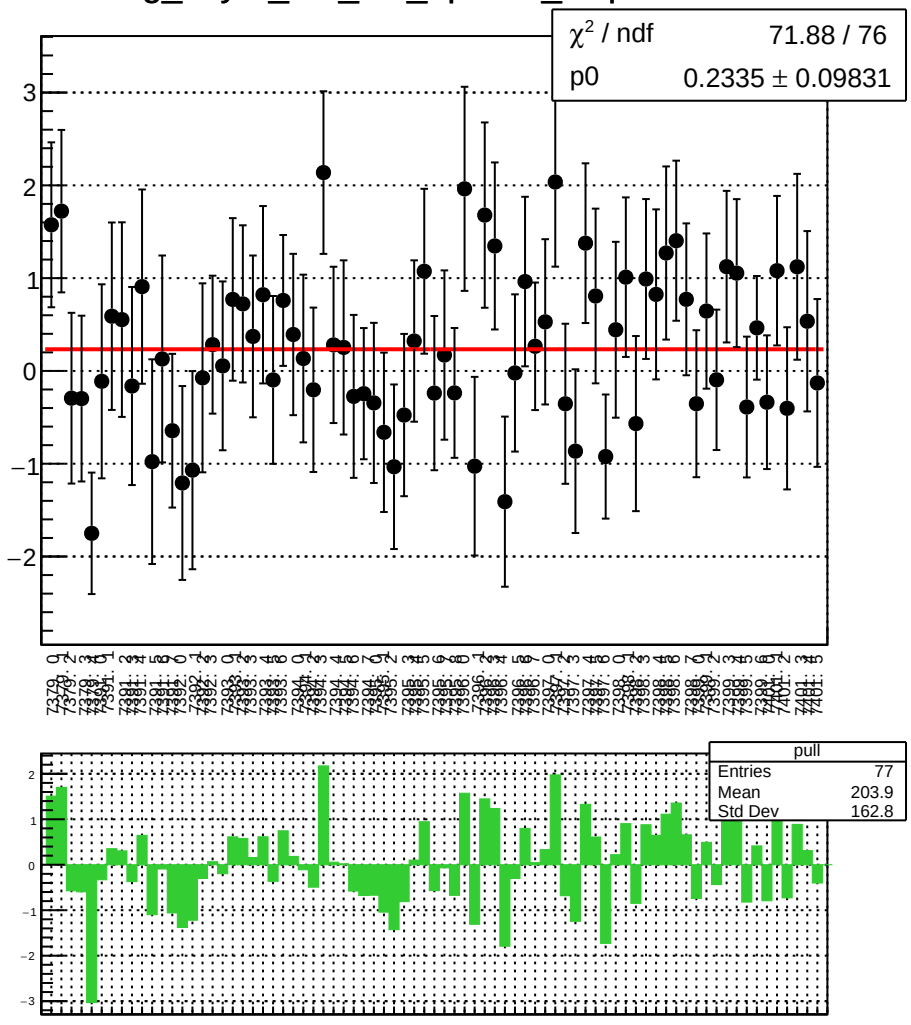

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 88.67 / 76
p0 0.03573 ± 0.07277
pull
Entries 77
Mean −269.5
Std Dev 310

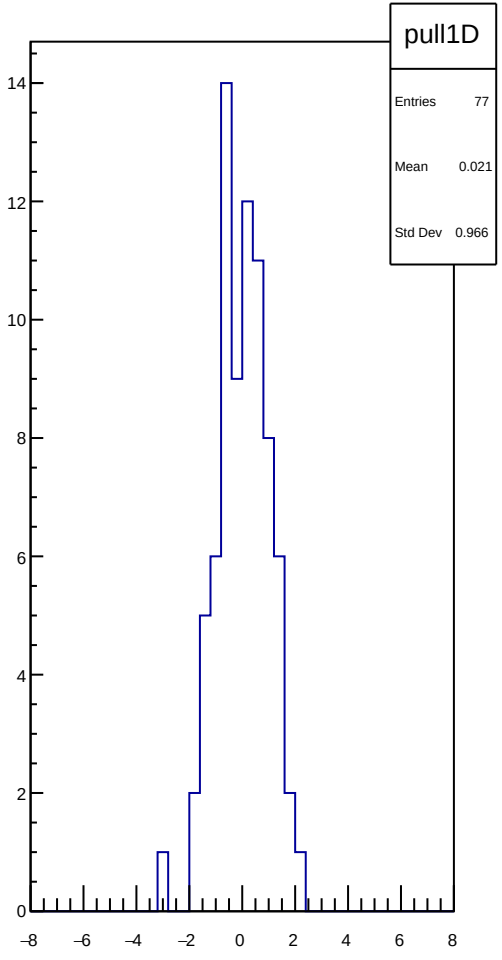

pull1D
Entries 77
Mean −0.01269
Std Dev 1.073

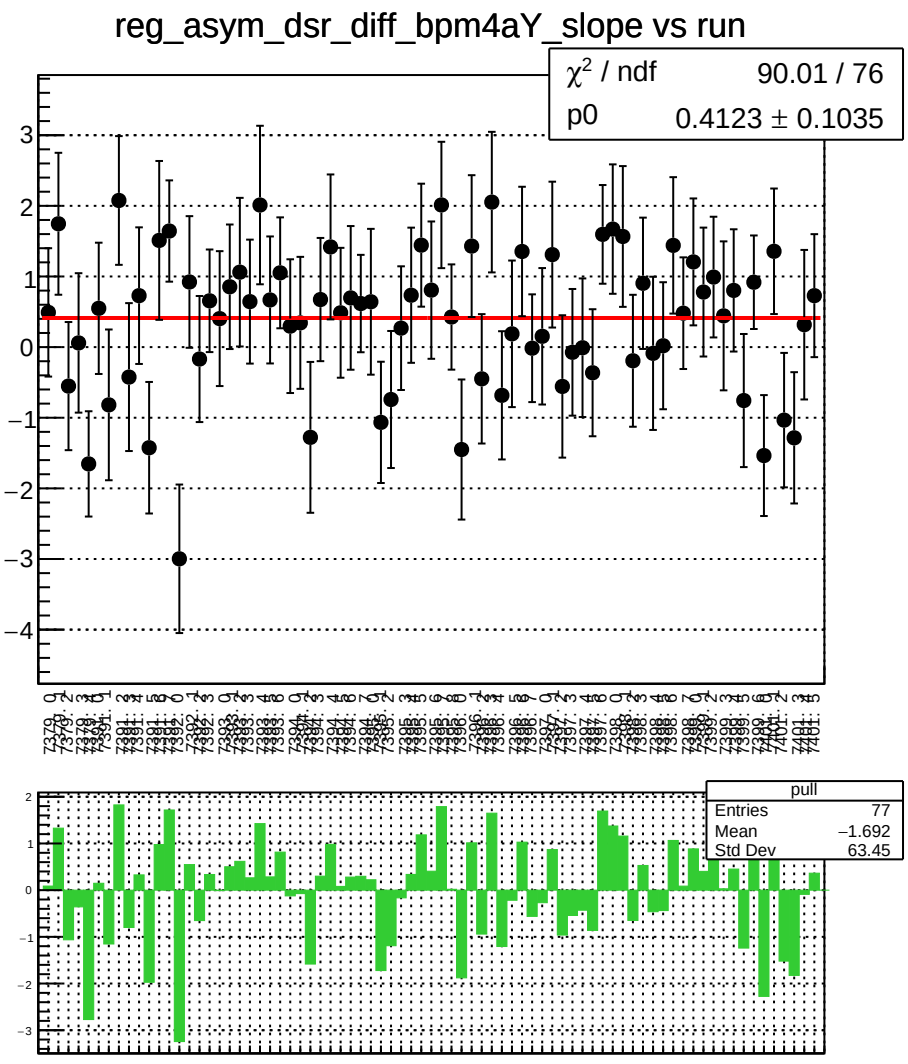

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 67.24 / 76
p0 0.07759 ± 0.07847
pull
Entries 77
Mean 4133
Std Dev 4096

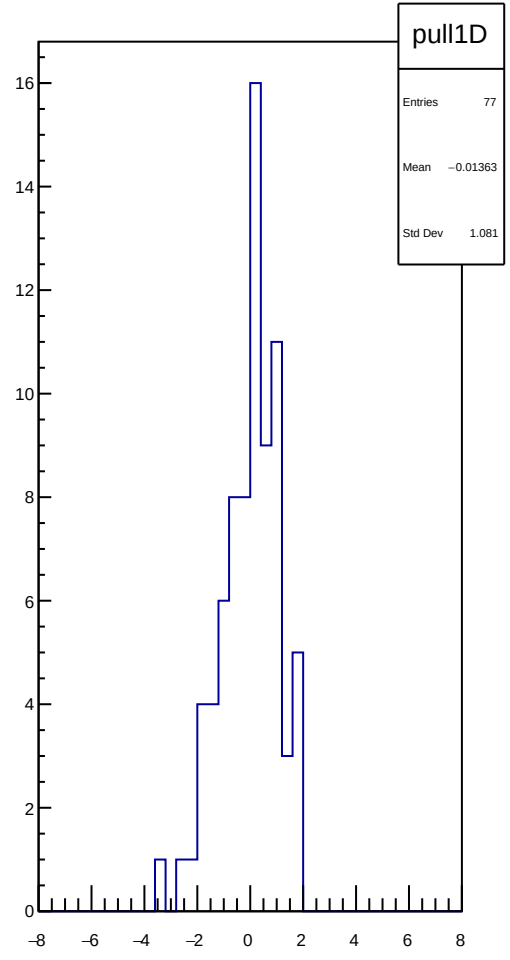

pull1D
Entries 77
Mean 0.001133
Std Dev 0.9345

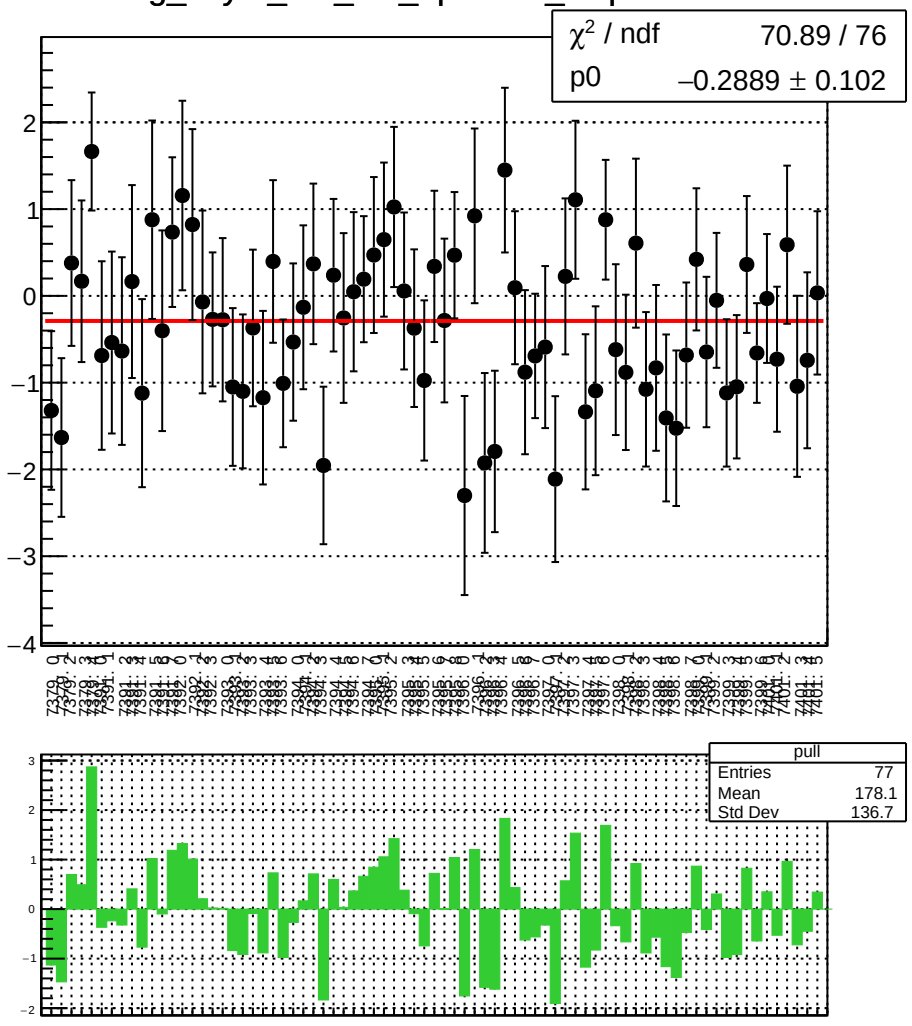

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 114.2 / 76
p0 −0.001519 ± 0.003559
pull
Entries 77
Mean −135.9
Std Dev 34.21
pull1D
Entries 77
Mean 0.004375
Std Dev 1.218

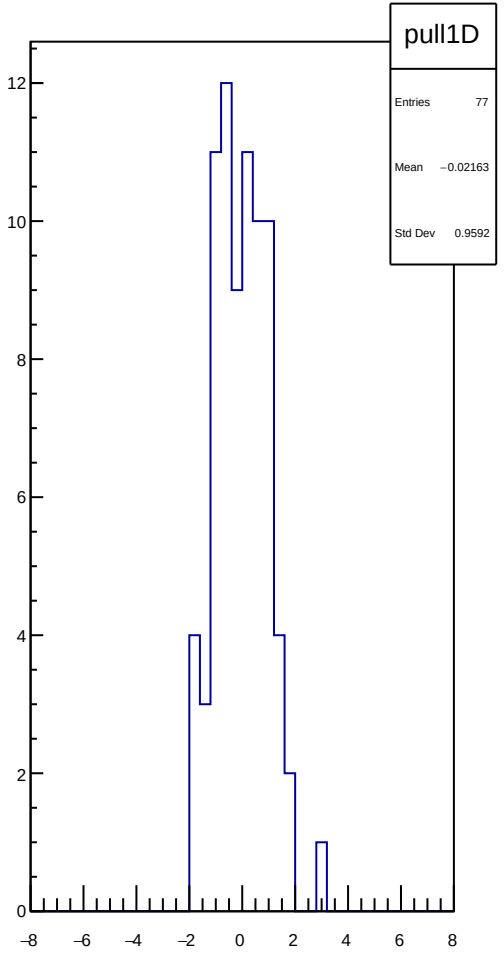

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 71.88 / 76
p0 0.2335 ± 0.09831
pull
Entries 77
Mean 203.9
Std Dev 162.8

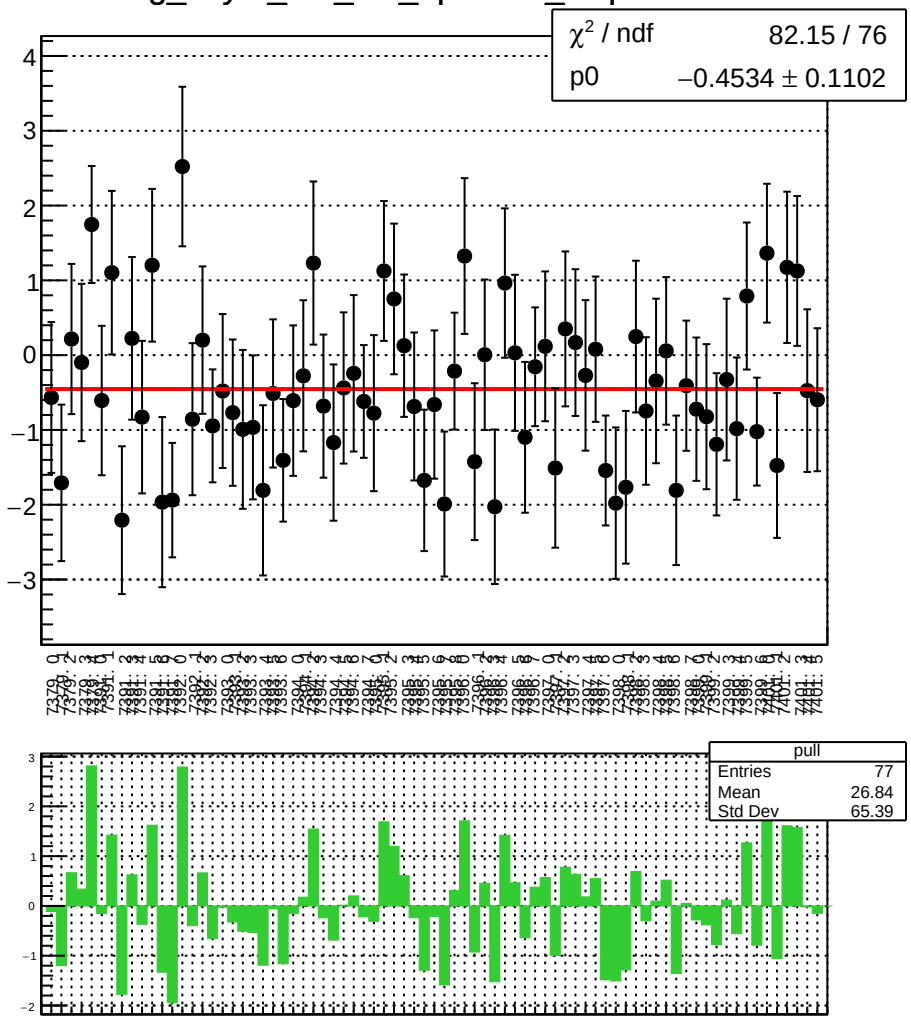

pull1D
Entries 77
Mean 0.021
Std Dev 0.966

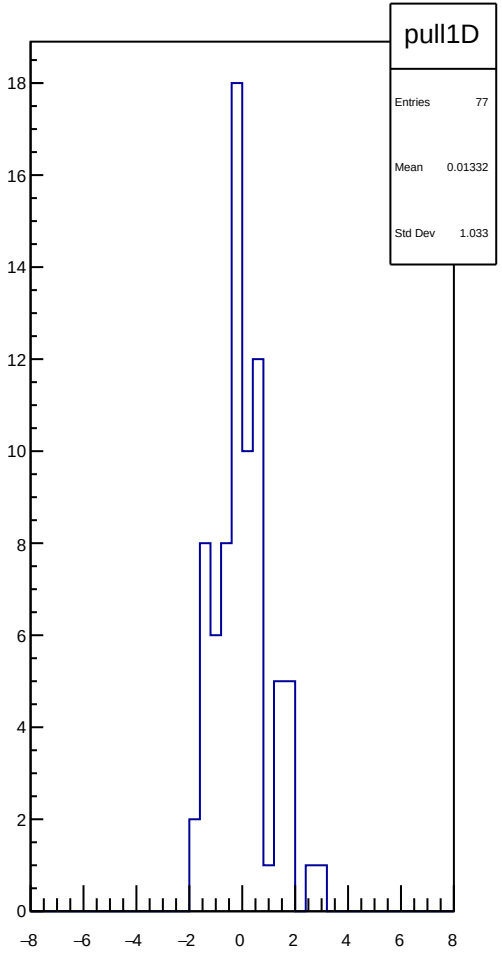

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 90.01 / 76
p0 0.4123 ± 0.1035
pull
Entries 77
Mean −1.692
Std Dev 63.45

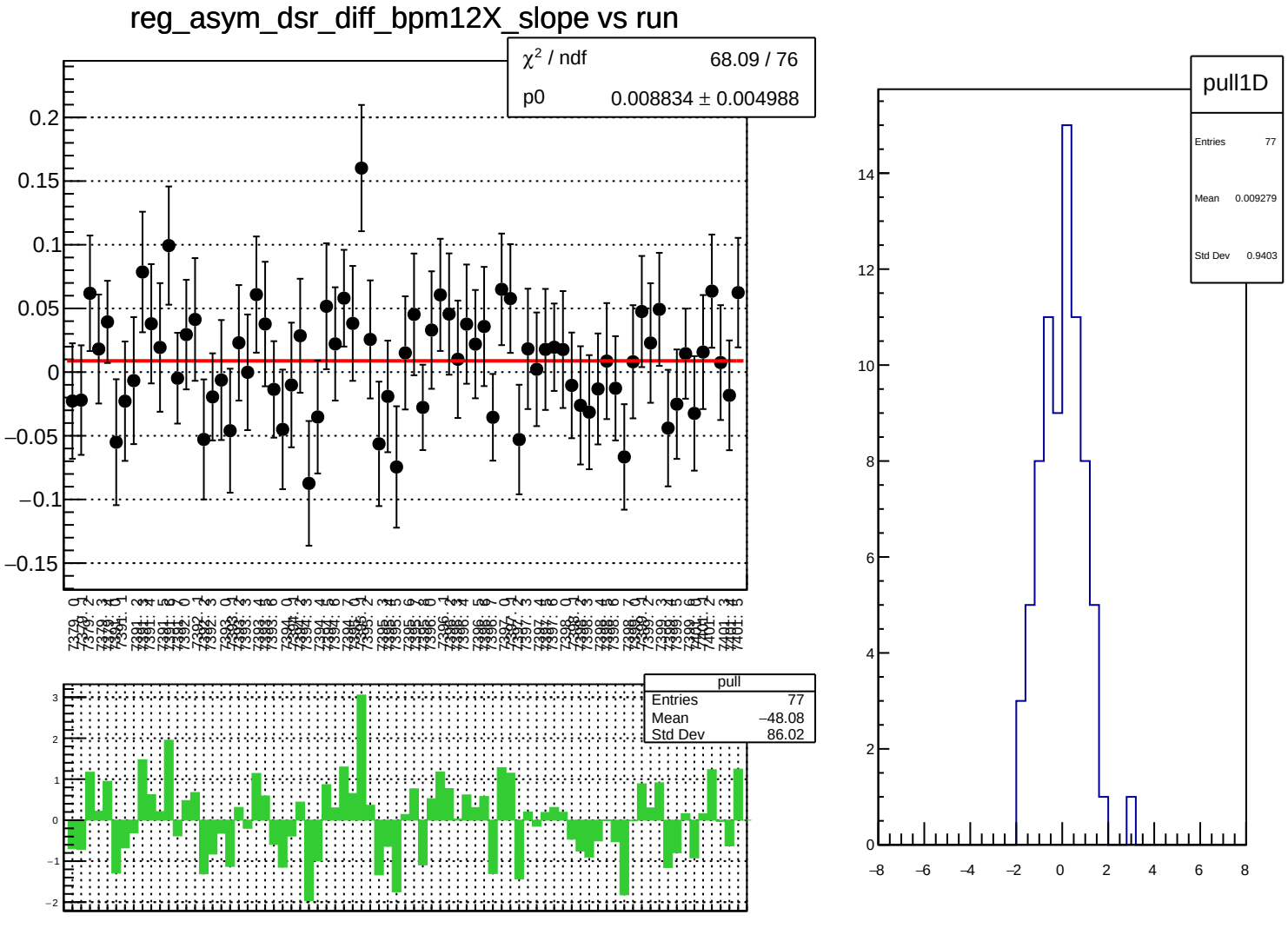

pull1D
Entries 77
Mean −0.01363
Std Dev 1.081

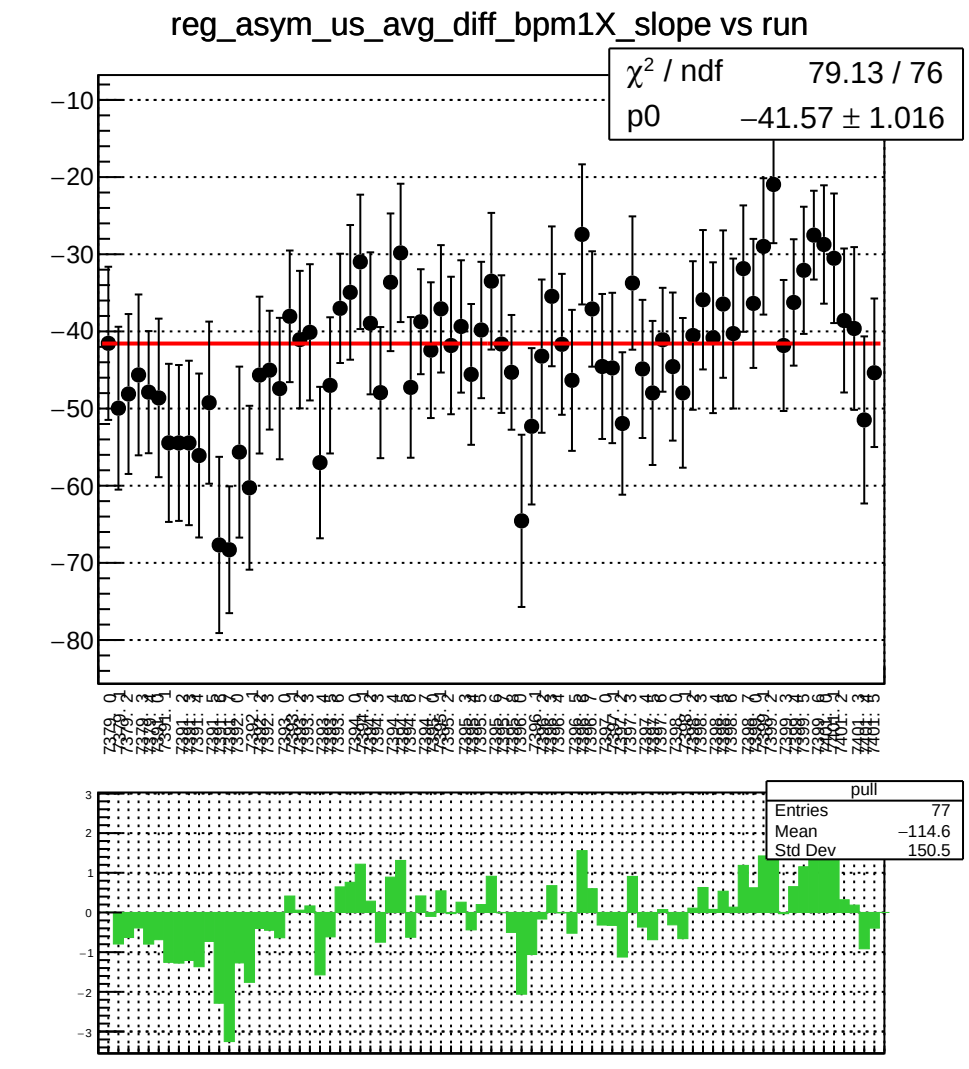

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 70.89 / 76
p0 −0.2889 ± 0.102
pull
Entries 77
Mean 178.1
Std Dev 136.7

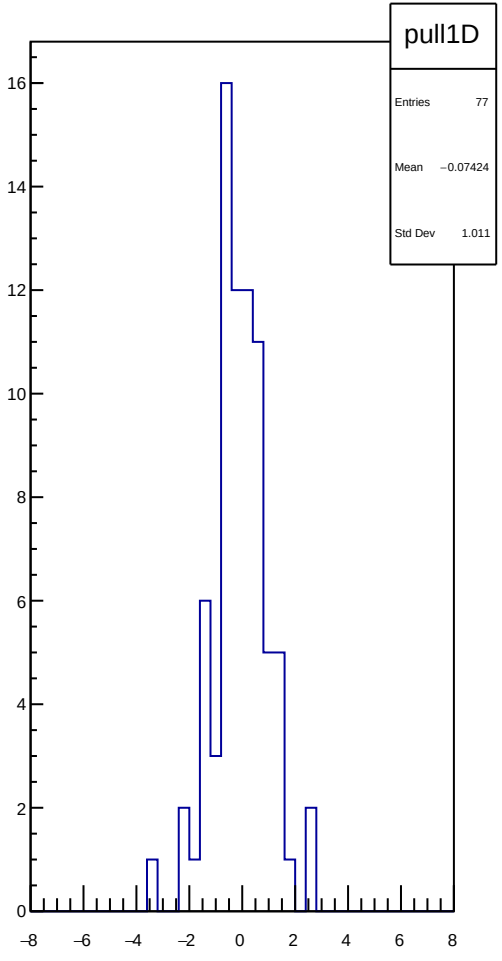

pull1D
Entries 77
Mean −0.02163
Std Dev 0.9592

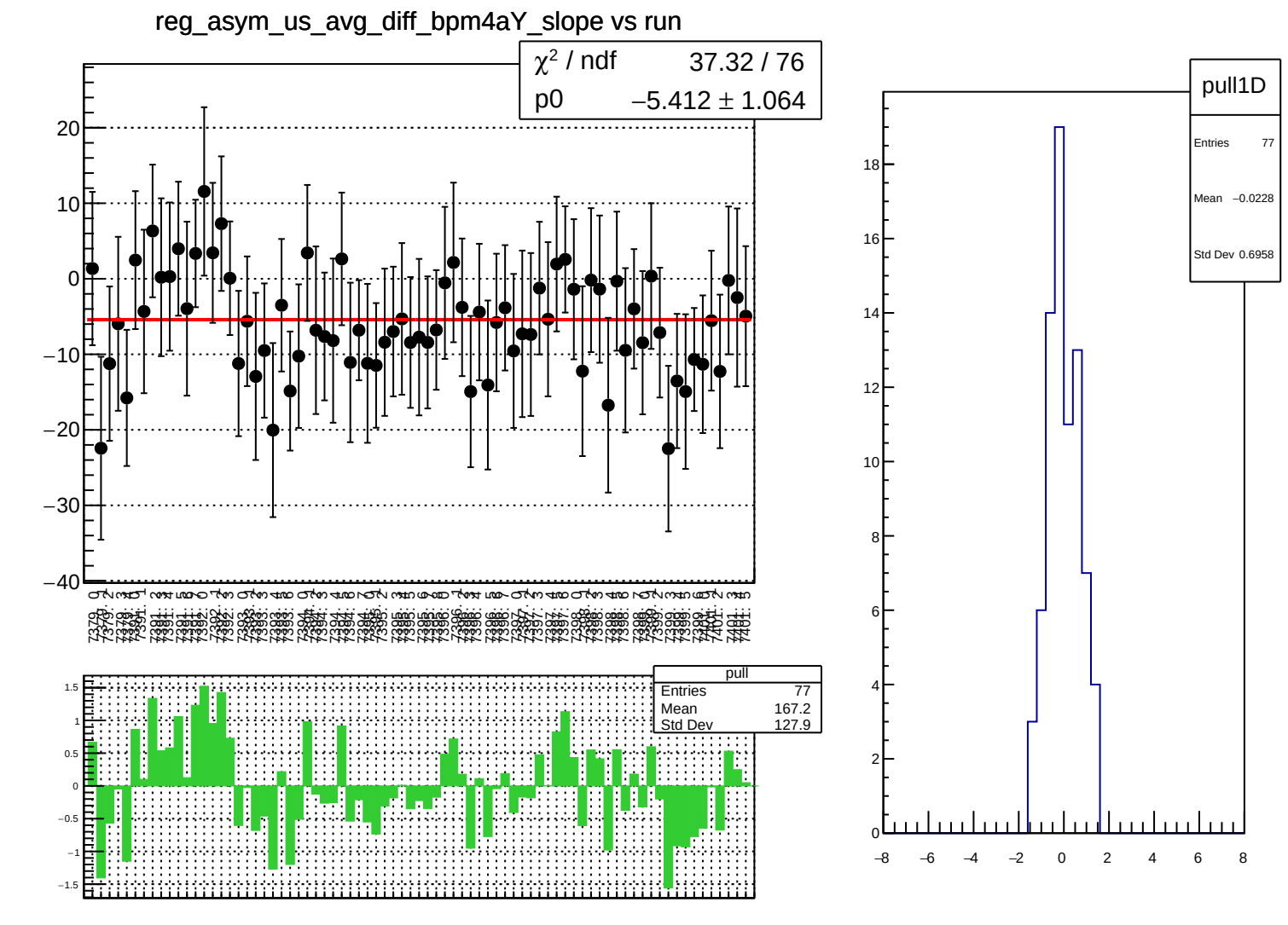

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 82.15 / 76
p0 −0.4534 ± 0.1102
pull
Entries 77
Mean 26.84
Std Dev 65.39

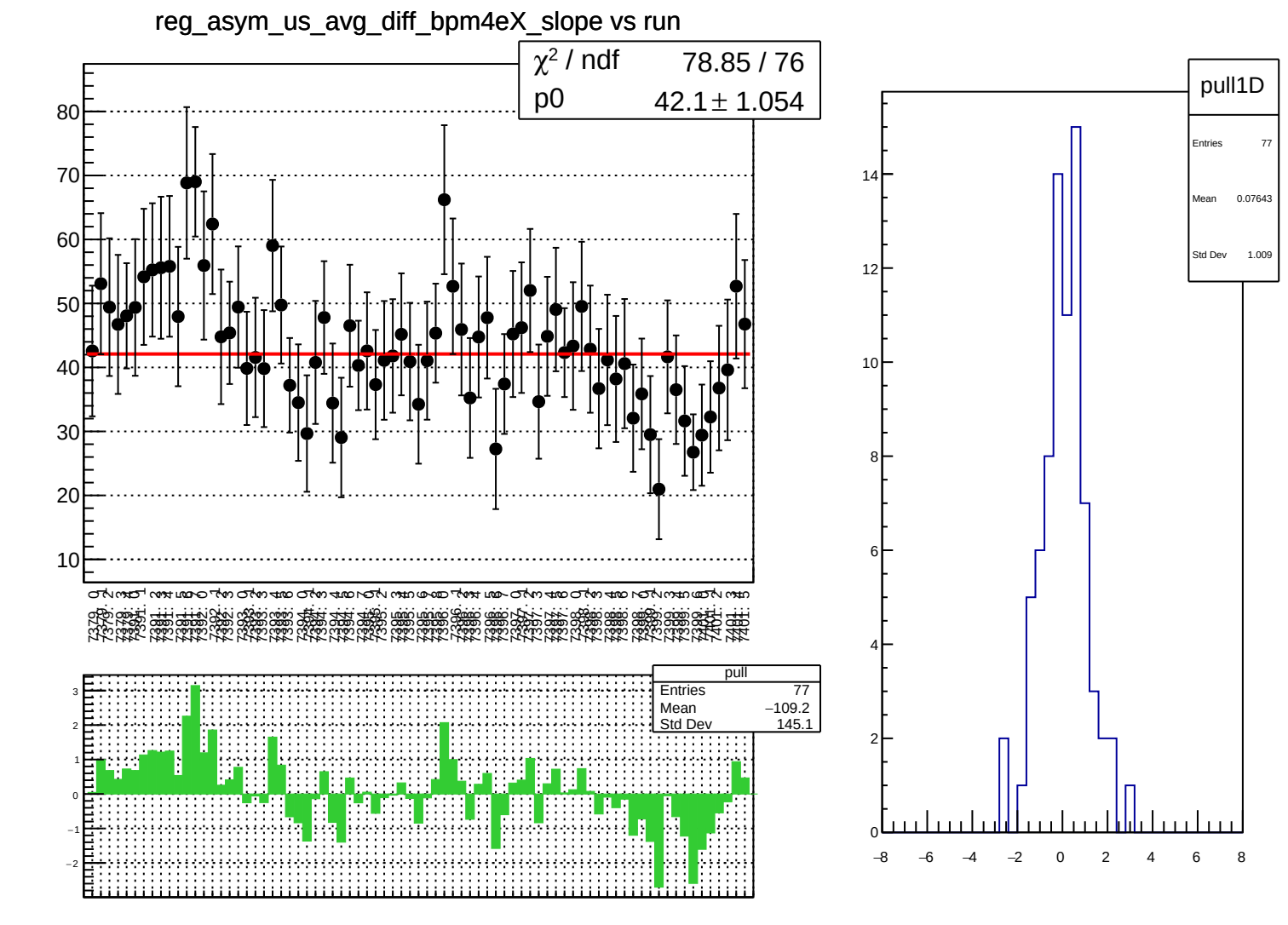

pull1D
Entries 77
Mean 0.01332
Std Dev 1.033

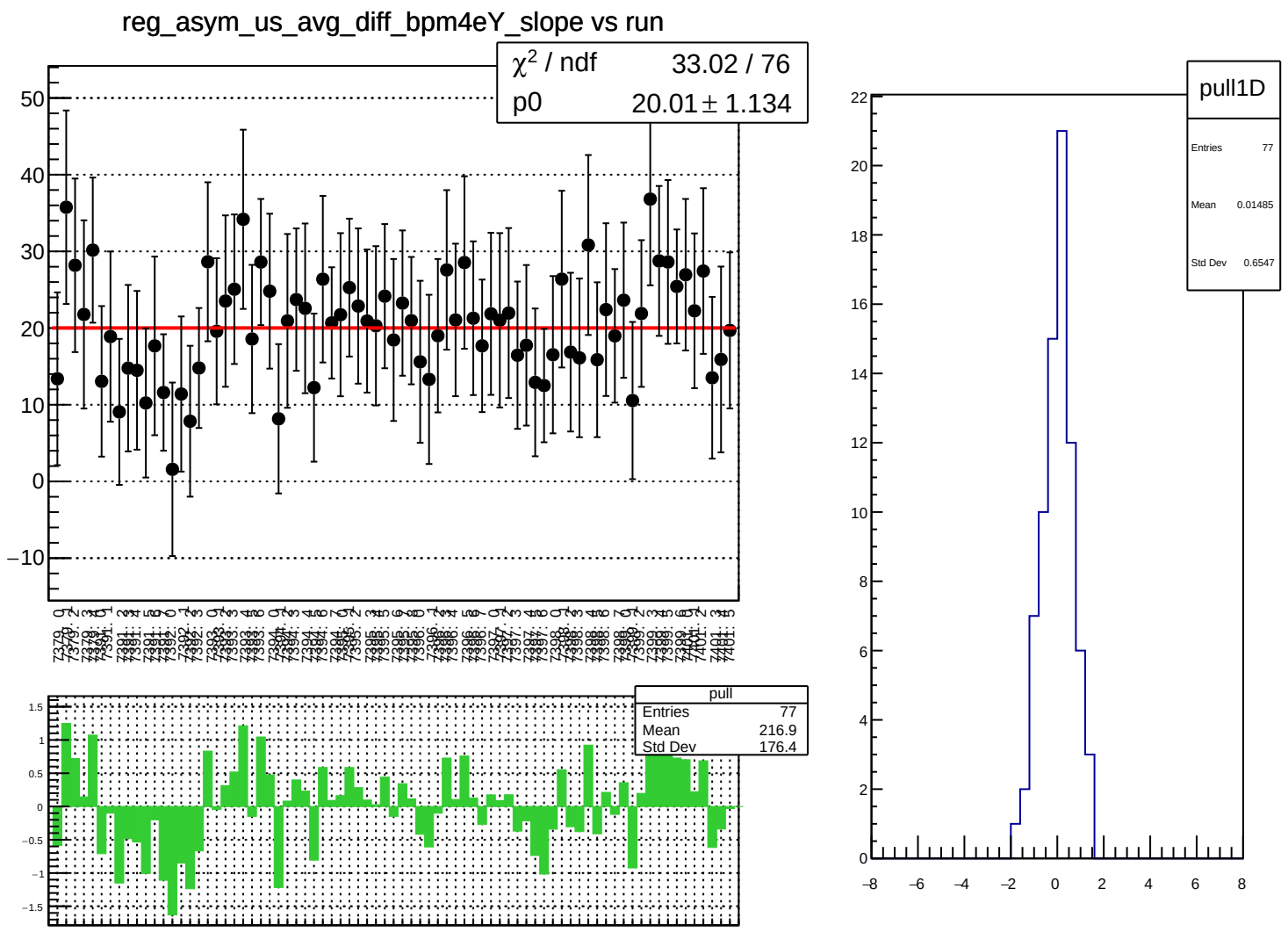

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 68.09 / 76
p0 0.008834 ± 0.004988
pull
Entries 77
Mean −48.08
Std Dev 86.02
pull1D
Entries 77
Mean 0.009279
Std Dev 0.9403

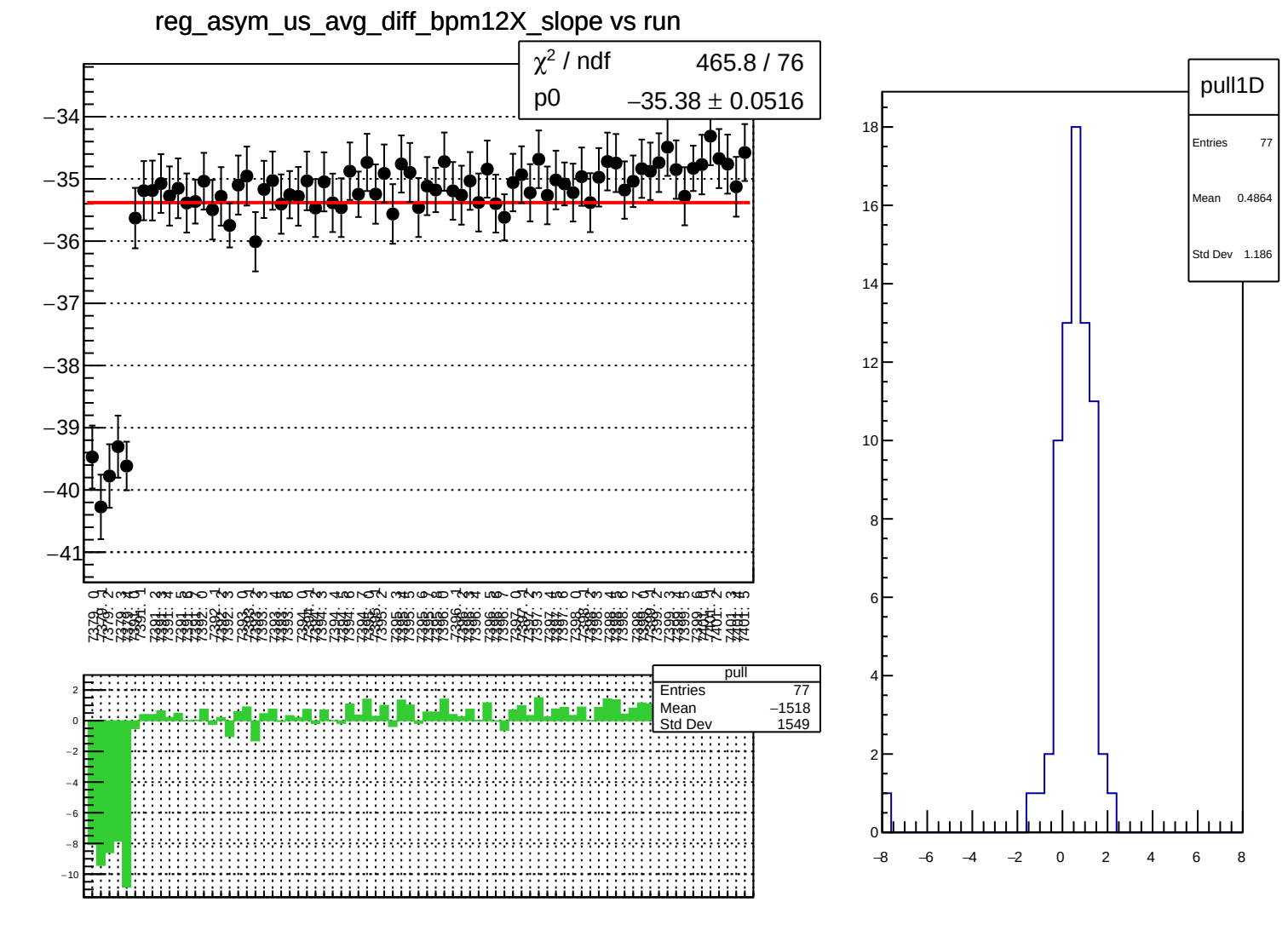

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 79.13 / 76
p0 −41.57 ± 1.016
pull
Entries 77
Mean −114.6
Std Dev 150.5

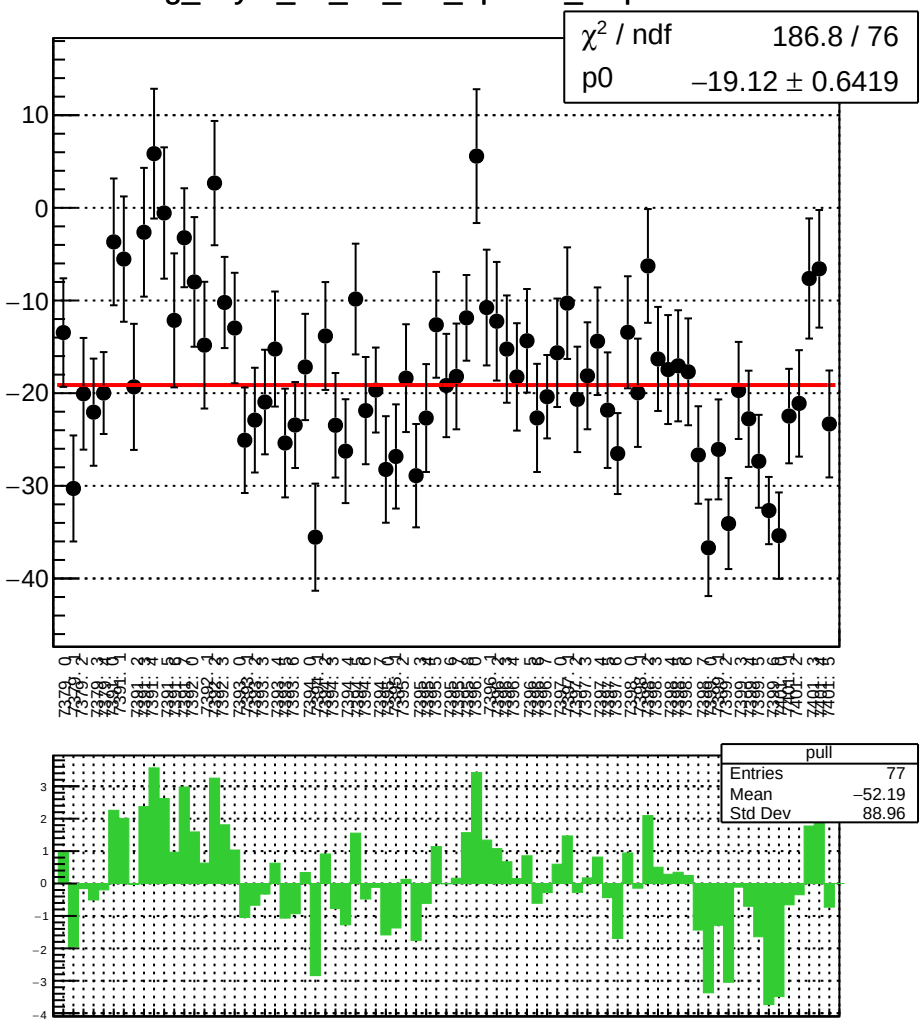

pull1D
Entries 77
Mean −0.07424
Std Dev 1.011

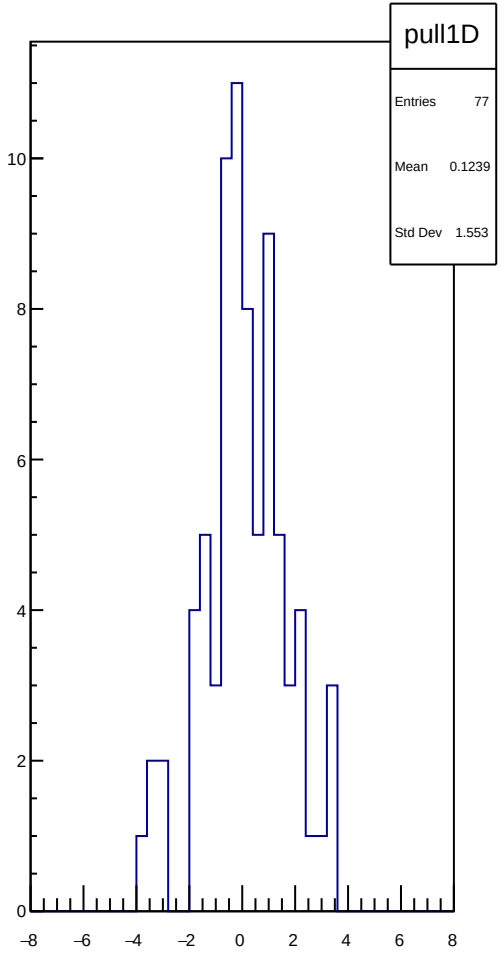

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.32 / 76
p0 −5.412 ± 1.064
pull
Entries 77
Mean 167.2
Std Dev 127.9
pull1D
Entries 77
Mean −0.0228
Std Dev 0.6958

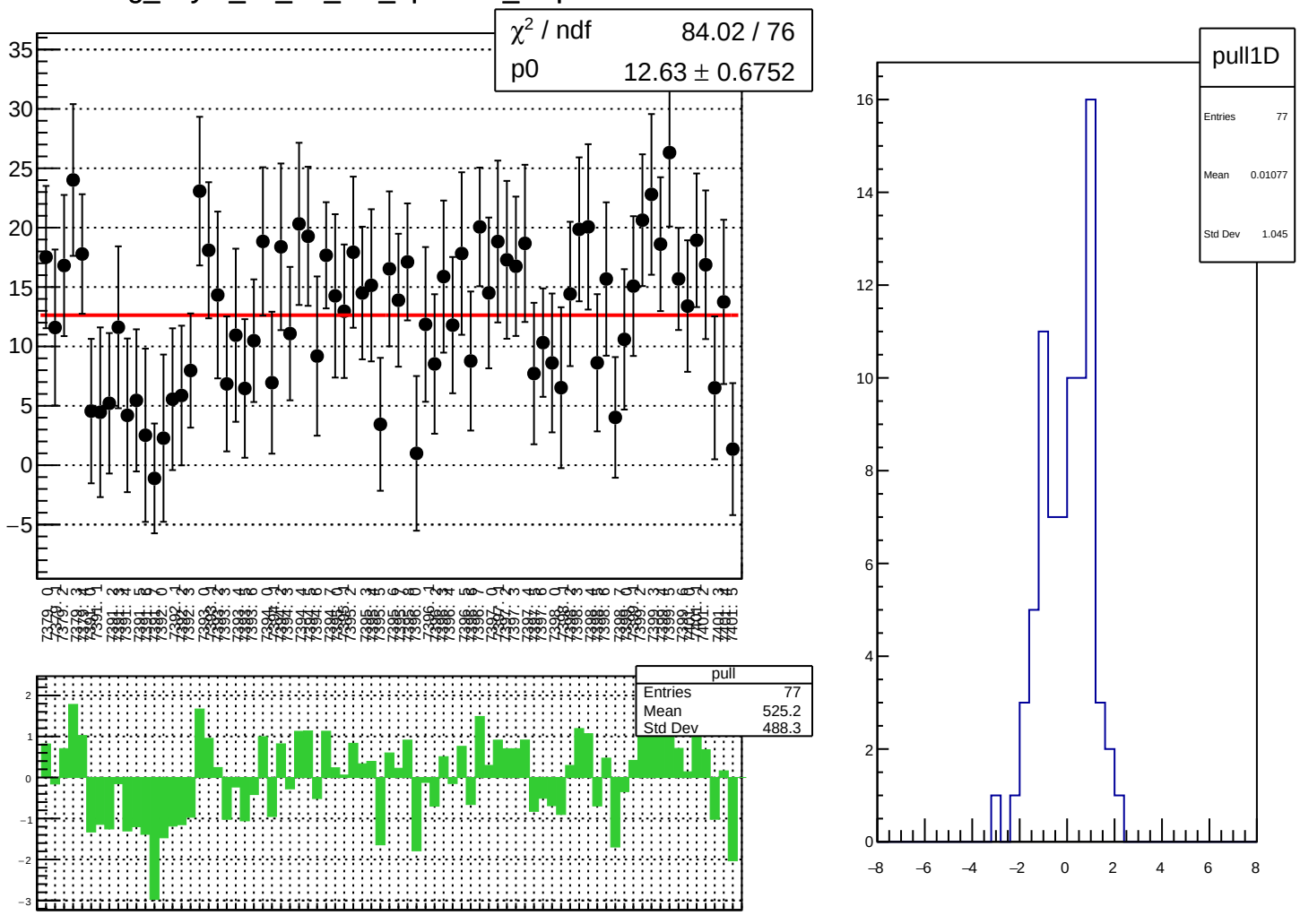

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 78.85 / 76
p0 42.1 ± 1.054
pull
Entries 77
Mean −109.2
Std Dev 145.1
pull1D
Entries 77
Mean 0.07643
Std Dev 1.009

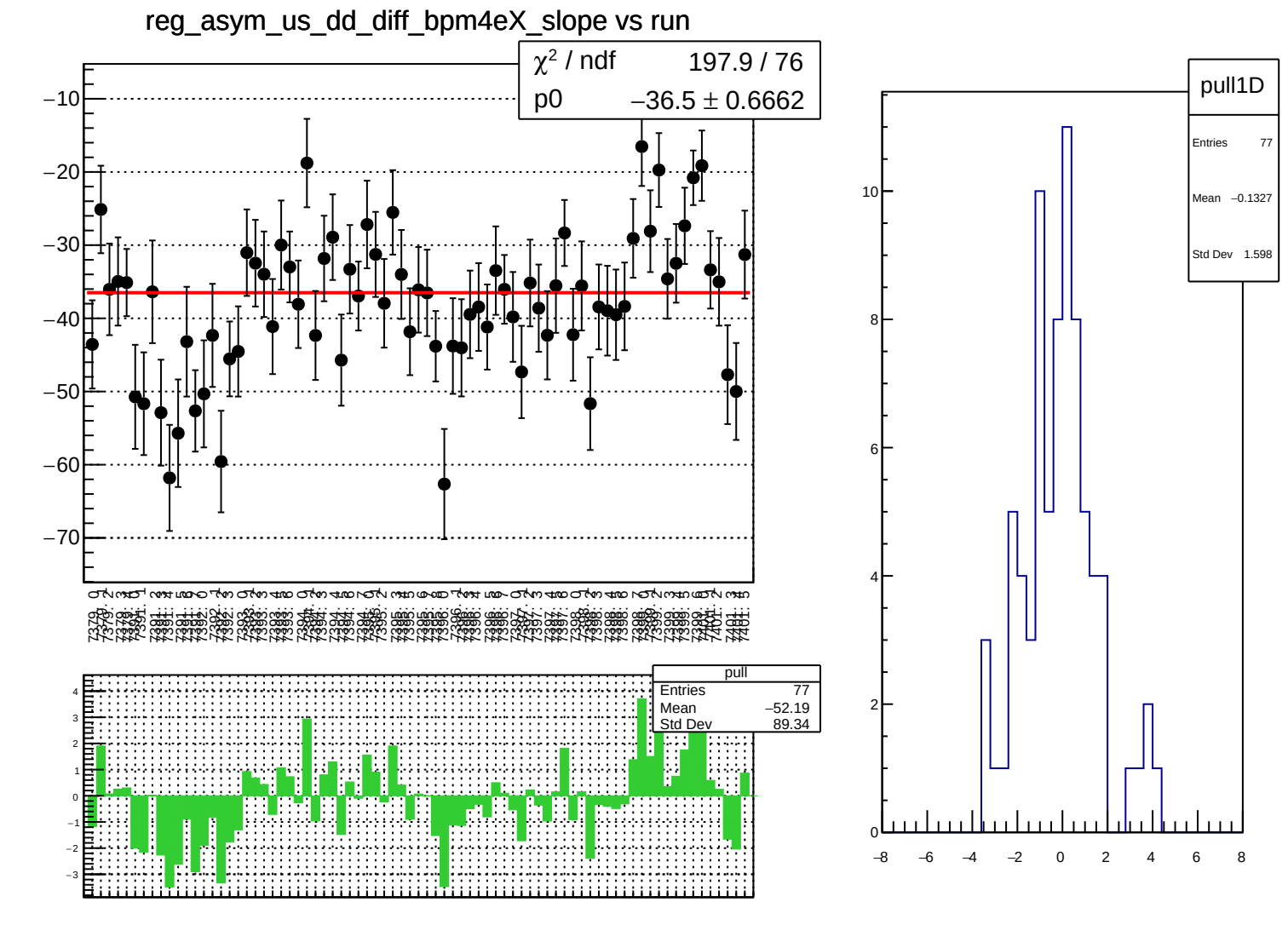

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.02 / 76
p0 20.01 ± 1.134
pull
Entries 77
Mean 216.9
Std Dev 176.4
pull1D
Entries 77
Mean 0.01485
Std Dev 0.6547

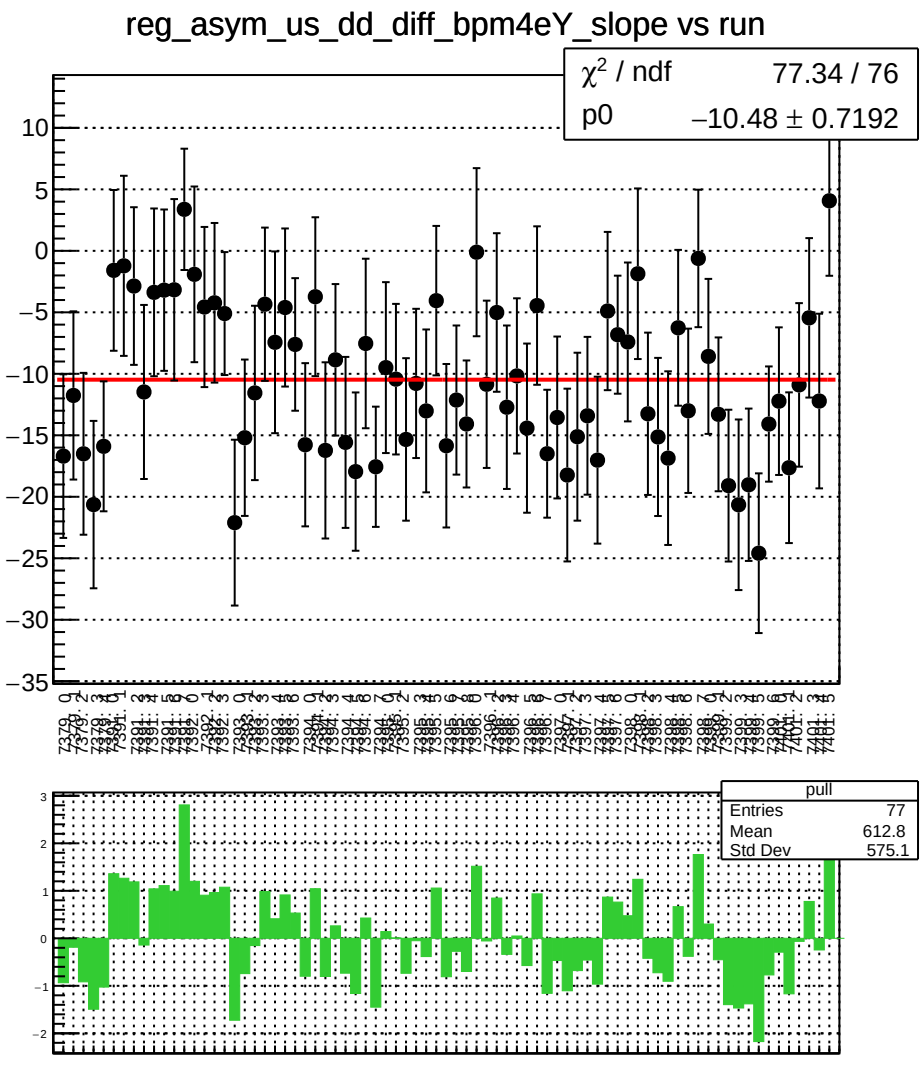

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 465.8 / 76
p0 −35.38 ± 0.0516
pull
Entries 77
Mean −1518
Std Dev 1549
pull1D
Entries 77
Mean 0.4864
Std Dev 1.186

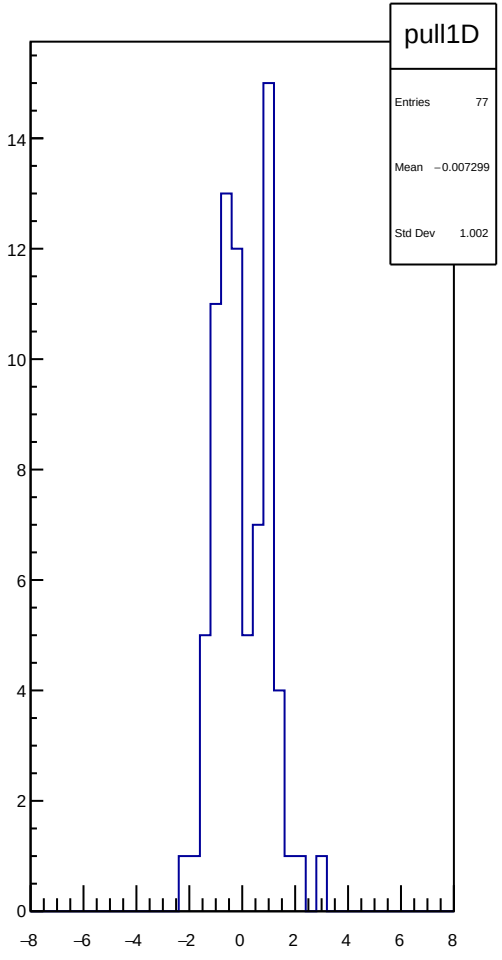

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 186.8 / 76
p0 −19.12 ± 0.6419
pull
Entries 77
Mean −52.19
Std Dev 88.96

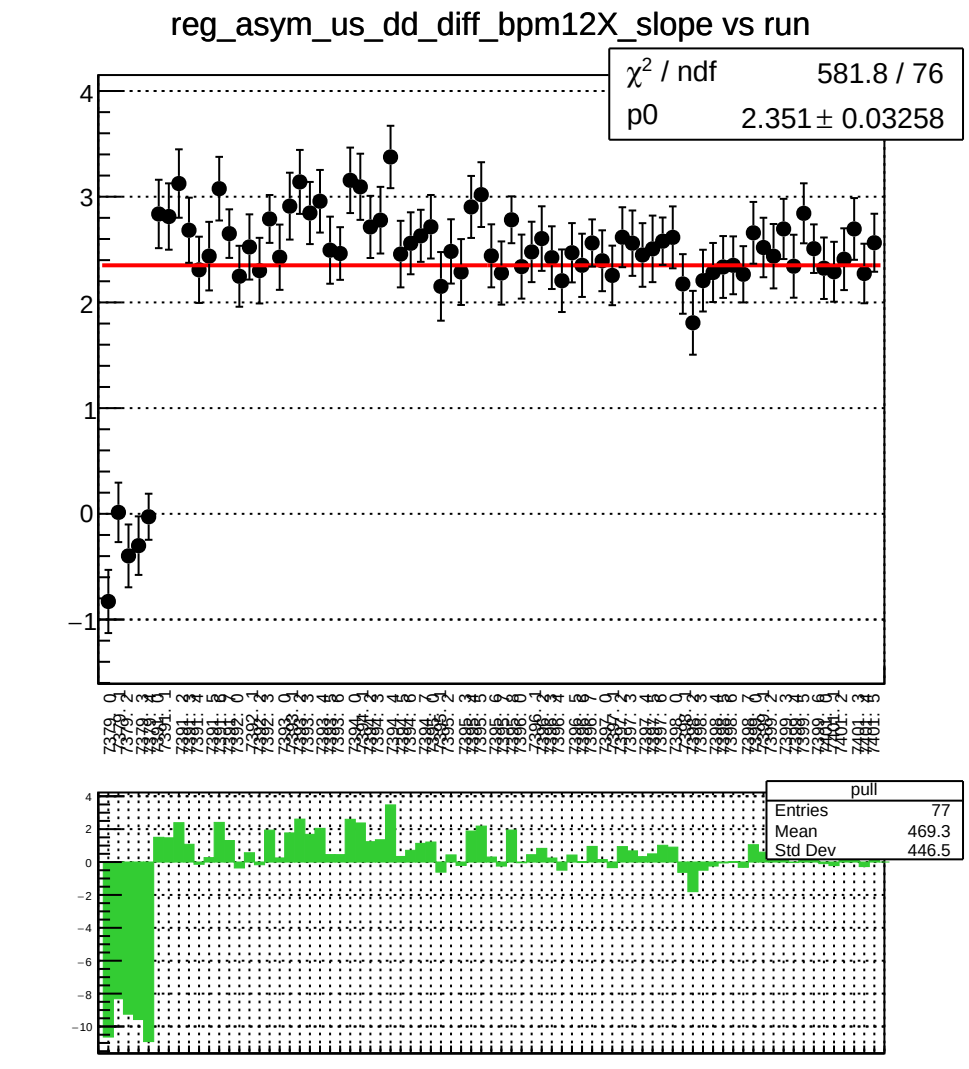

pull1D
Entries 77
Mean 0.1239
Std Dev 1.553

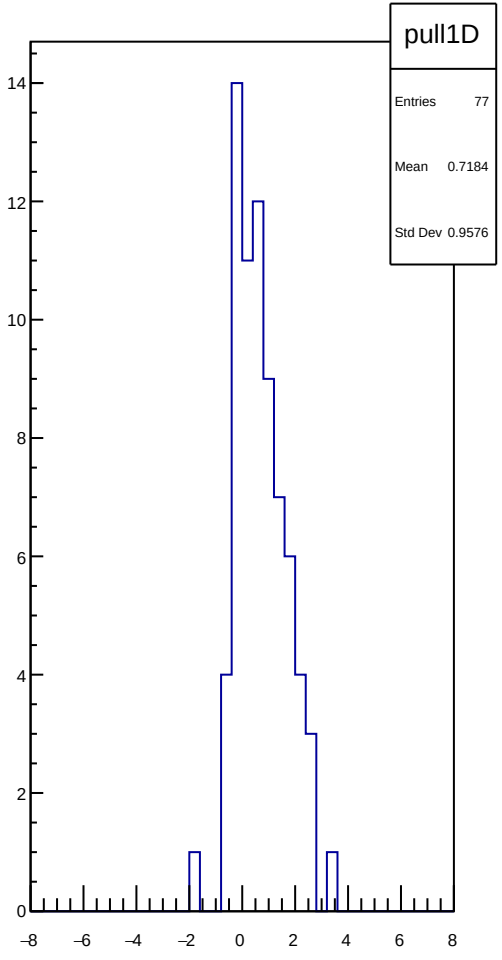

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.02 / 76
p0 12.63 ± 0.6752
pull
Entries 77
Mean 525.2
Std Dev 488.3
pull1D
Entries 77
Mean 0.01077
Std Dev 1.045

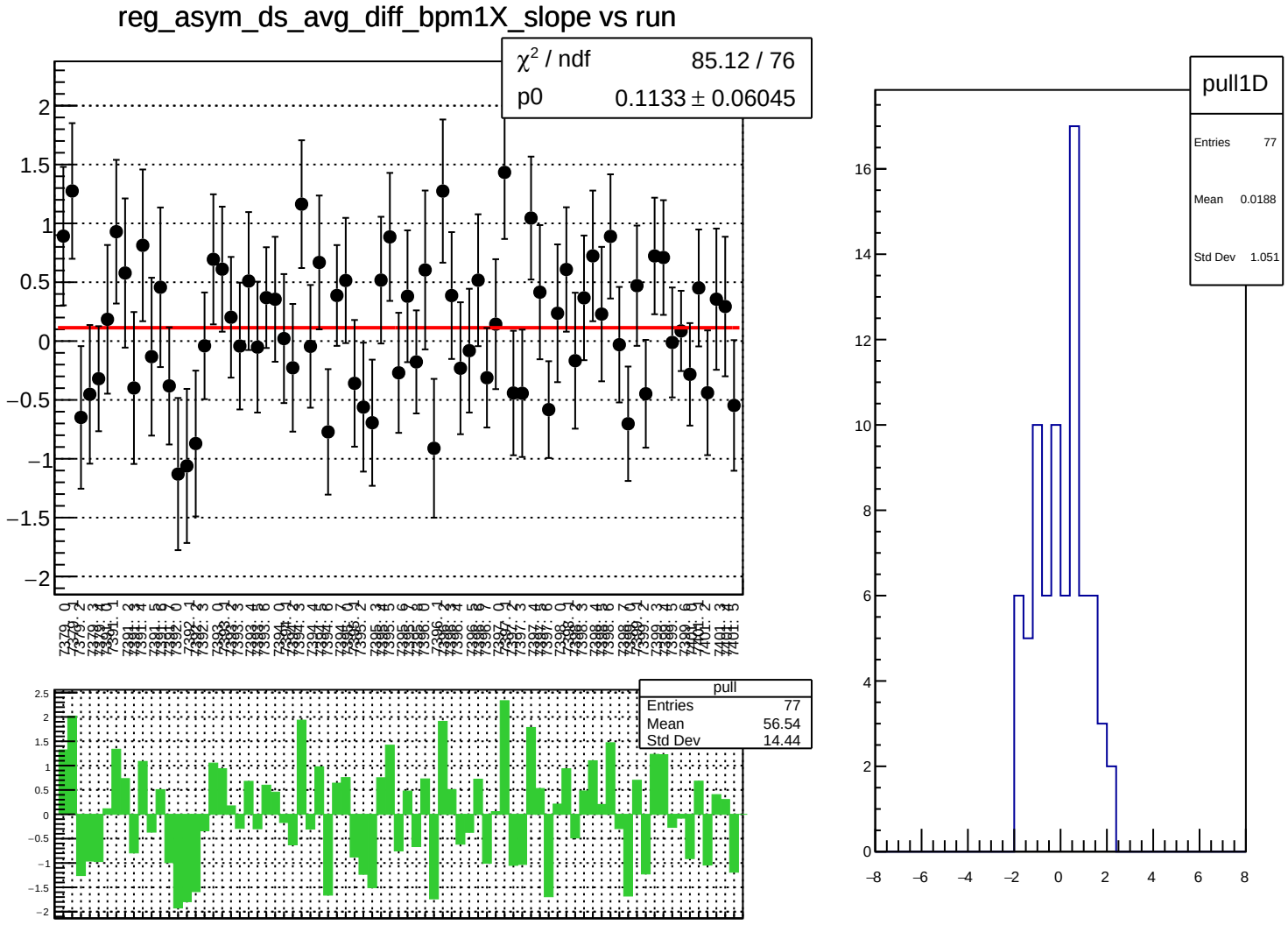

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 197.9 / 76
p0 −36.5 ± 0.6662
pull
Entries 77
Mean −52.19
Std Dev 89.34
pull1D
Entries 77
Mean −0.1327
Std Dev 1.598

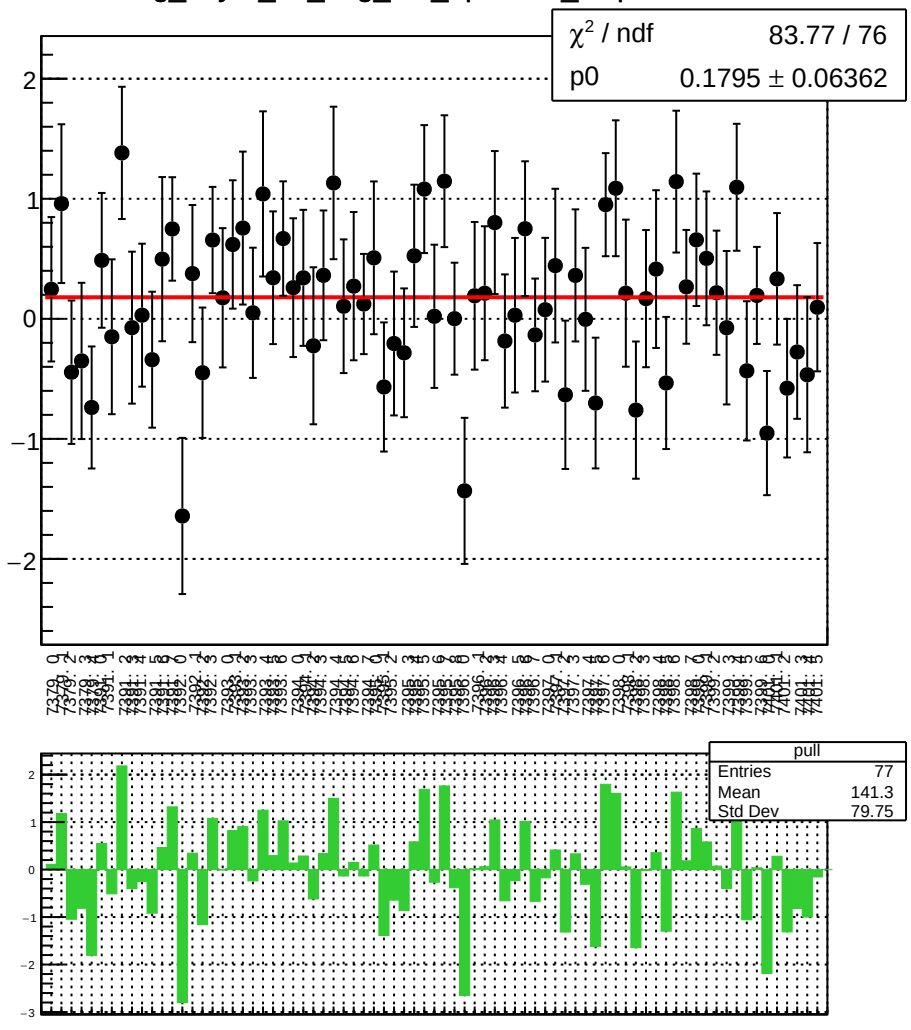

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.34 / 76
p0 −10.48 ± 0.7192
pull
Entries 77
Mean 612.8
Std Dev 575.1

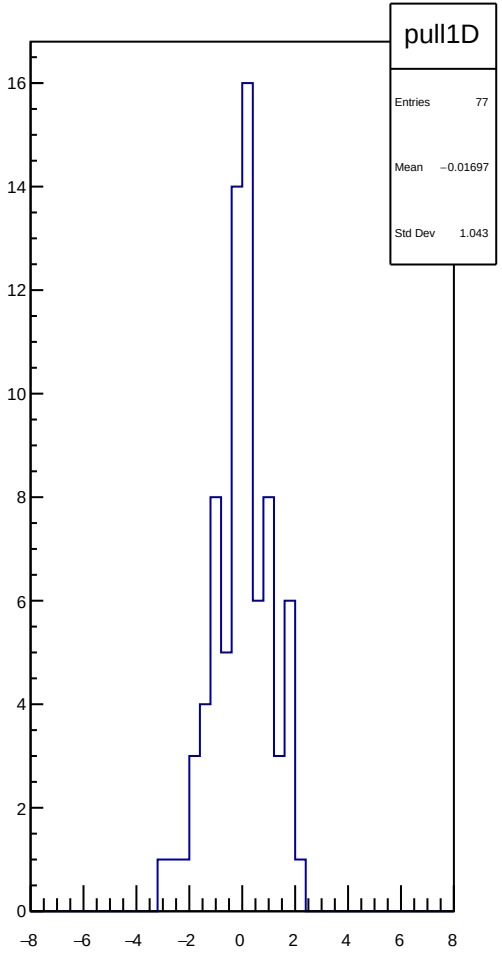

pull1D
Entries 77
Mean −0.007299
Std Dev 1.002

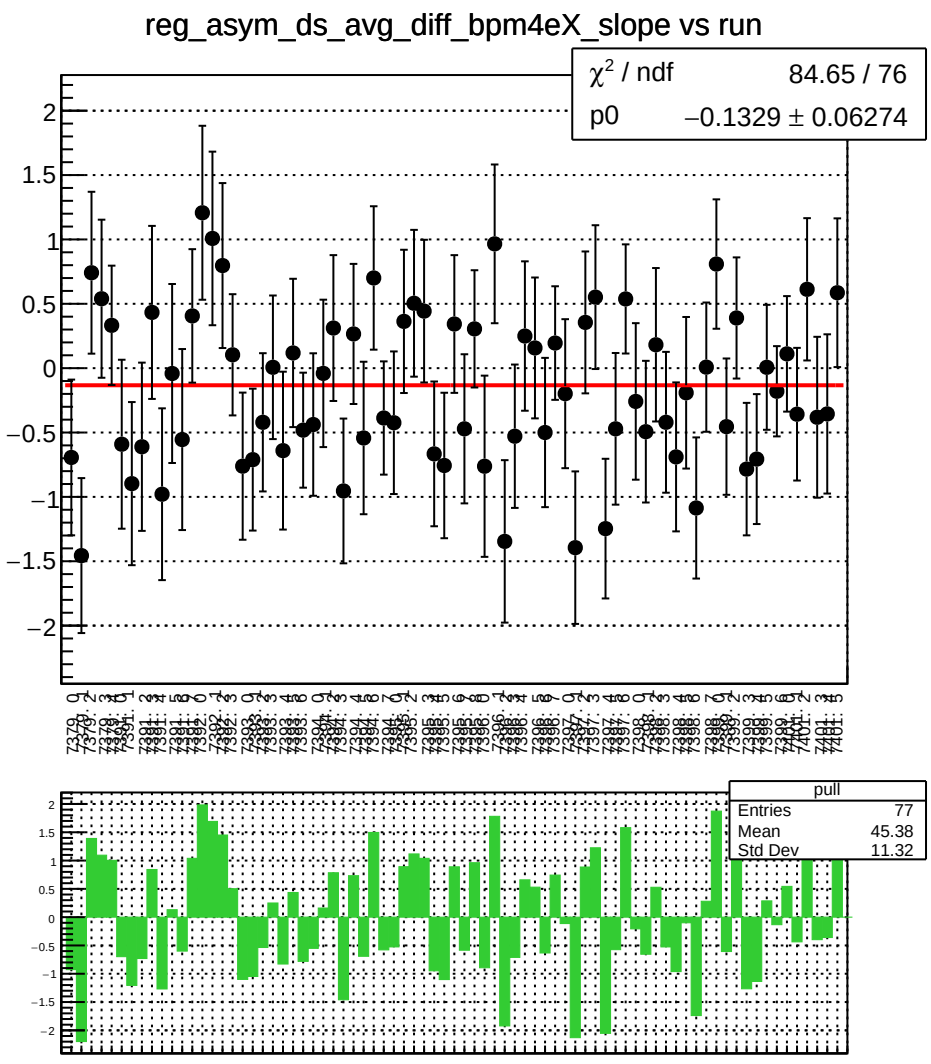

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 581.8 / 76
p0 2.351 ± 0.03258
pull
Entries 77
Mean 469.3
Std Dev 446.5

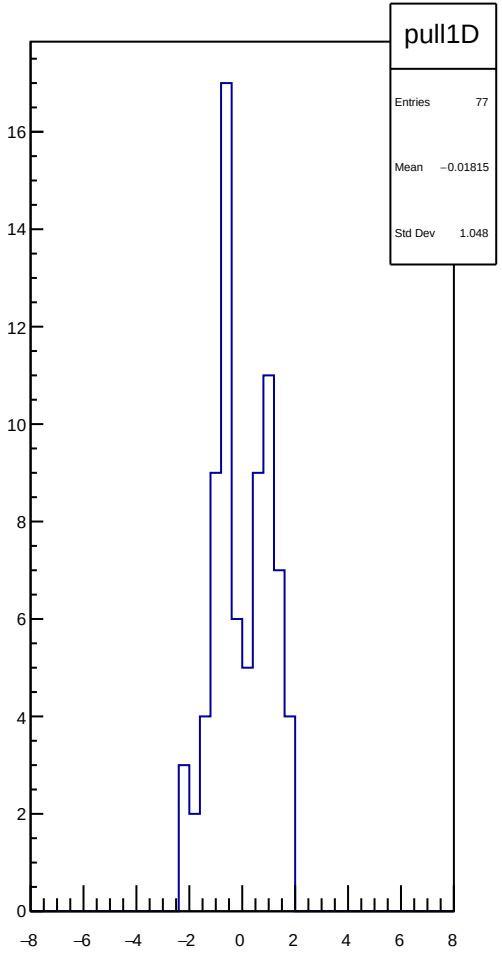

pull1D
Entries 77
Mean 0.7184
Std Dev 0.9576

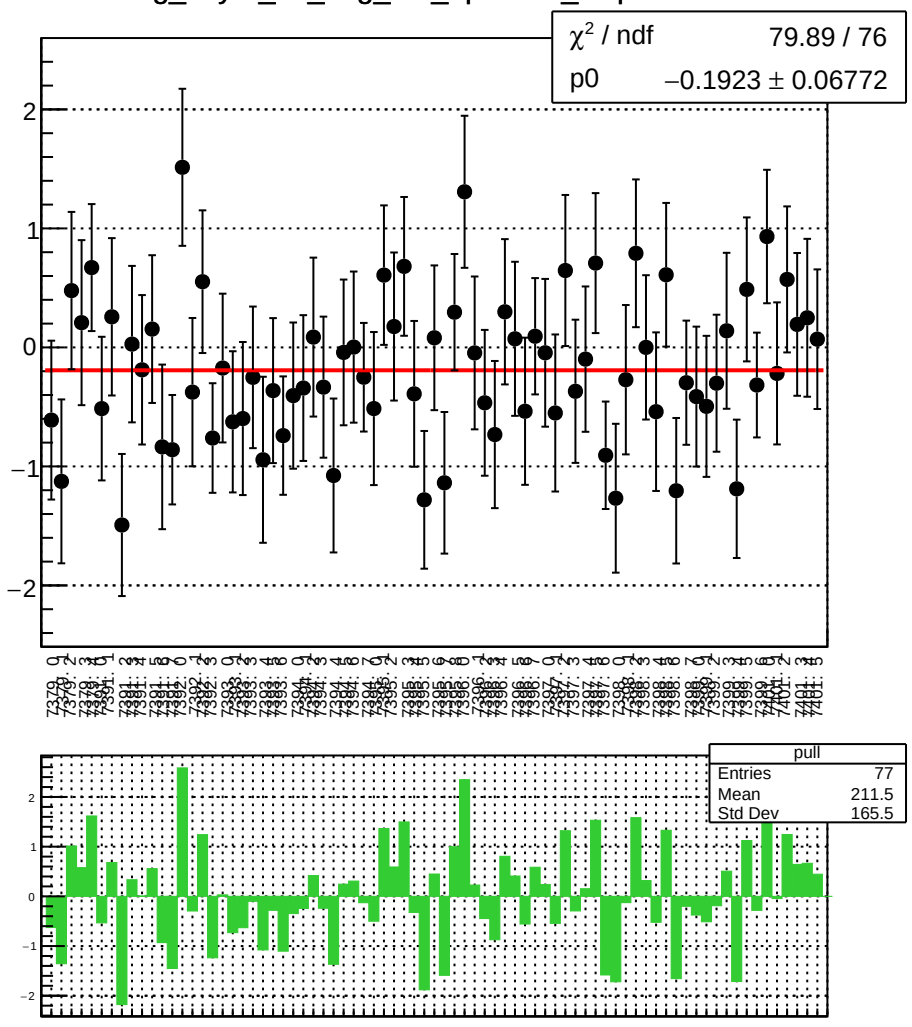

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ^2 / ndf 85.12 / 76
p0 0.1133 ± 0.06045
pull
Entries 77
Mean 56.54
Std Dev 14.44
pull1D
Entries 77
Mean 0.0188
Std Dev 1.051

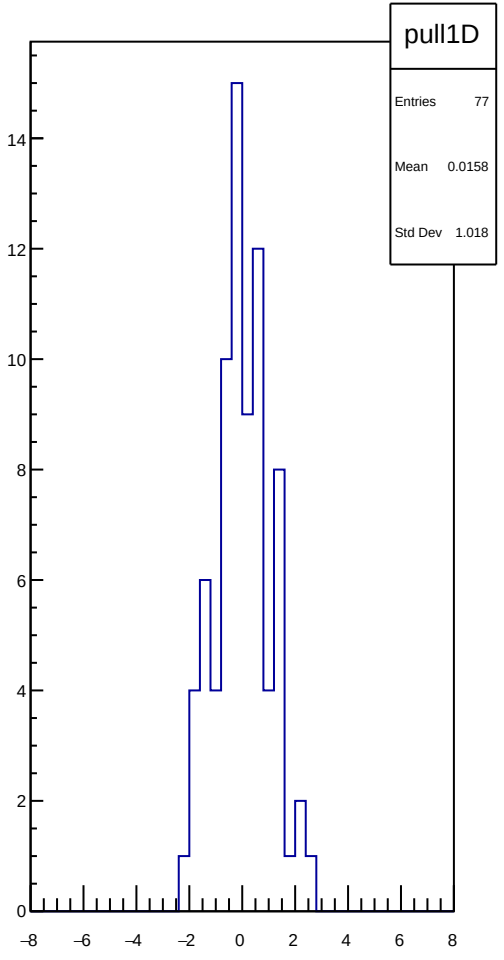

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 83.77 / 76
p0 0.1795 ± 0.06362
pull
Entries 77
Mean 141.3
Std Dev 79.75

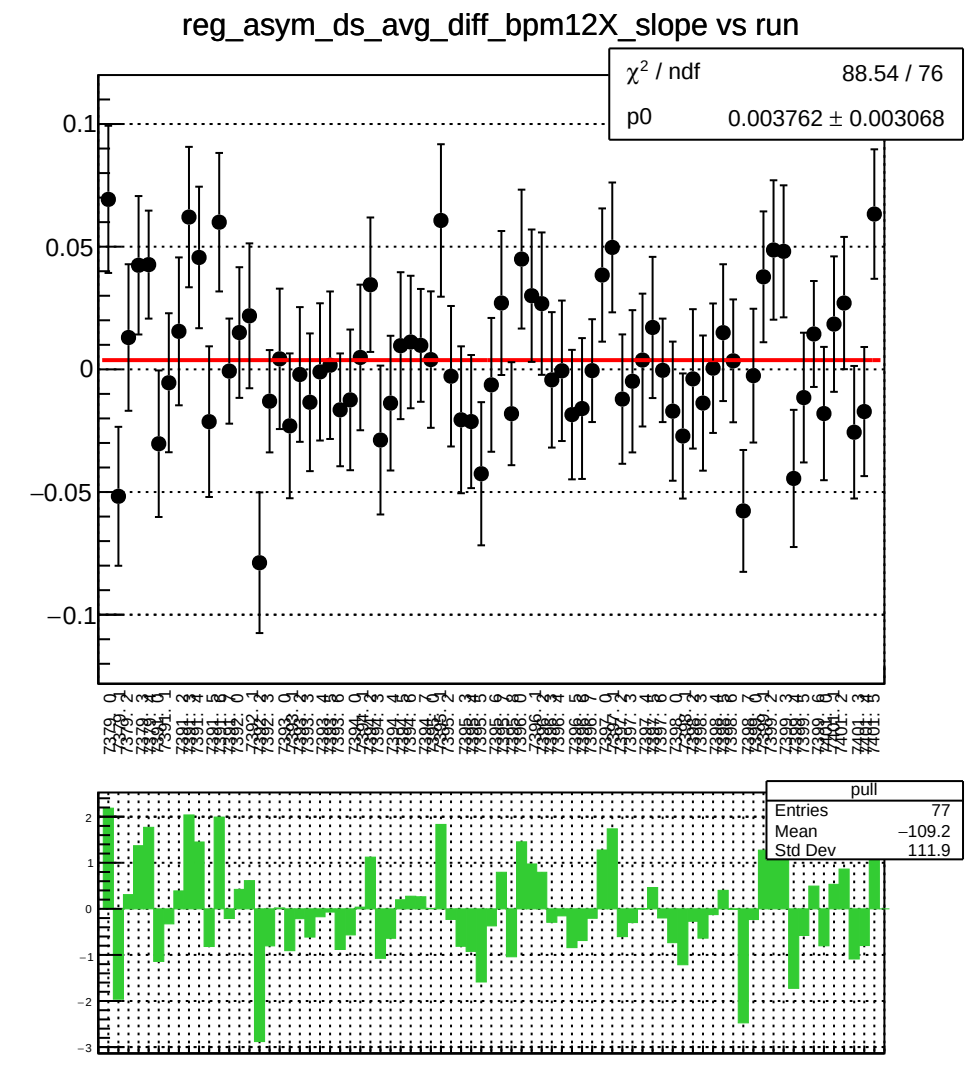

pull1D
Entries 77
Mean −0.01697
Std Dev 1.043

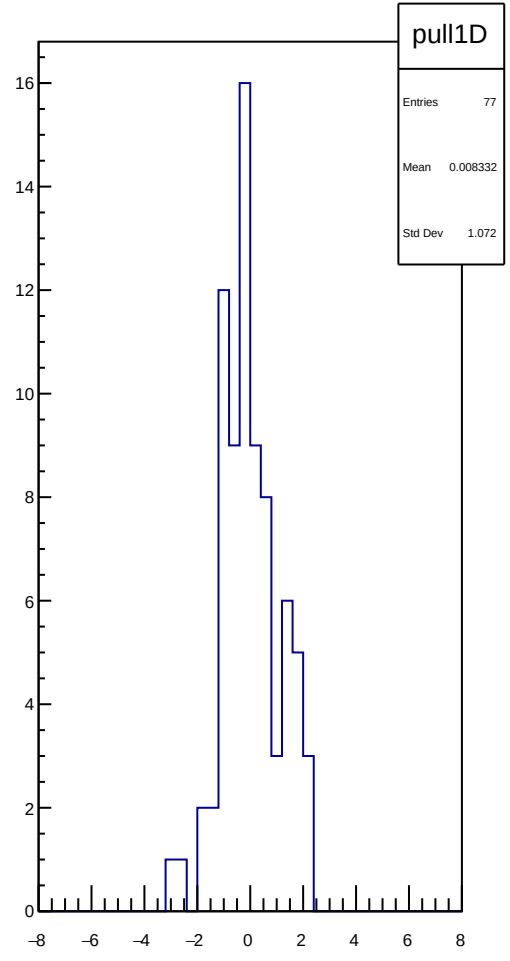

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.65 / 76
p0 −0.1329 ± 0.06274
pull
Entries 77
Mean 45.38
Std Dev 11.32

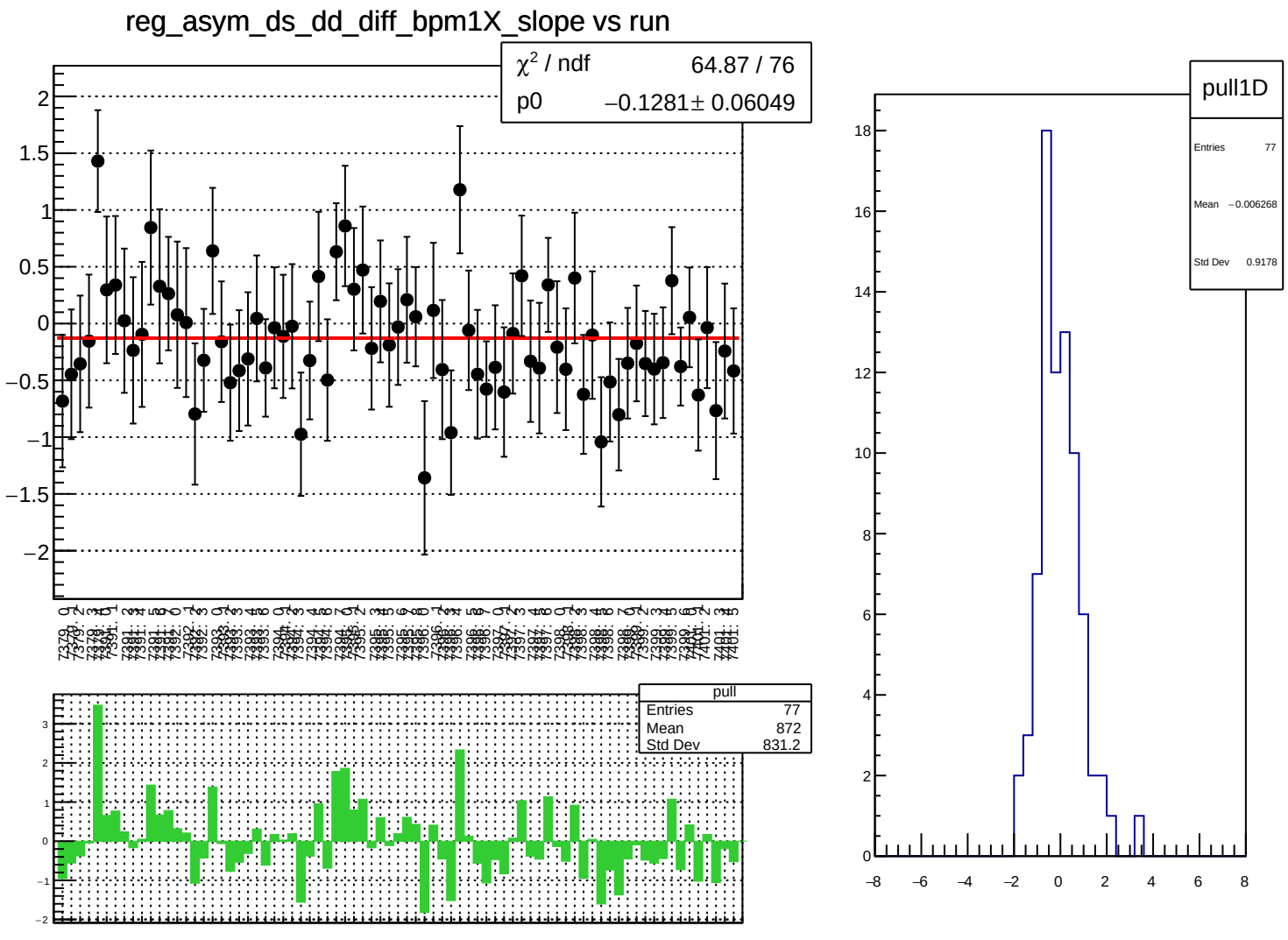

pull1D
Entries 77
Mean −0.01815
Std Dev 1.048

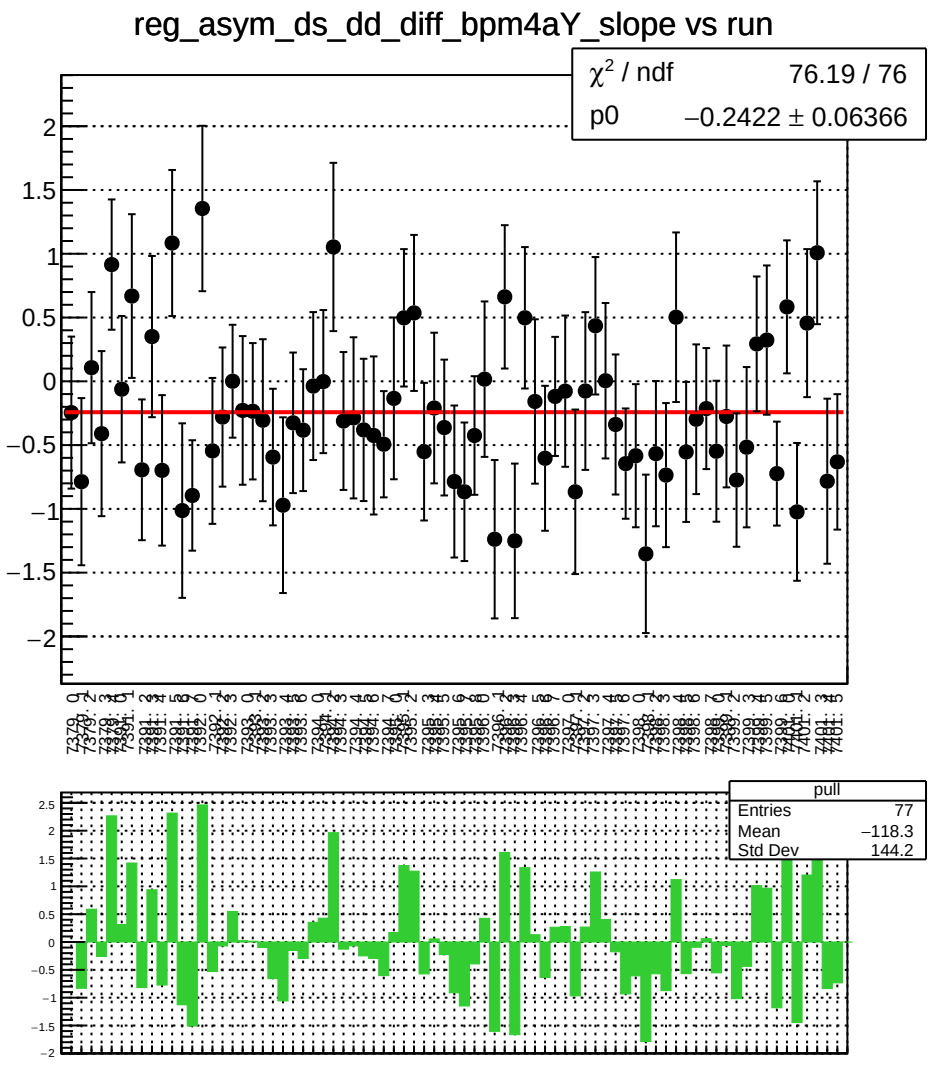

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.89 / 76
p0 −0.1923 ± 0.06772
pull
Entries 77
Mean 211.5
Std Dev 165.5

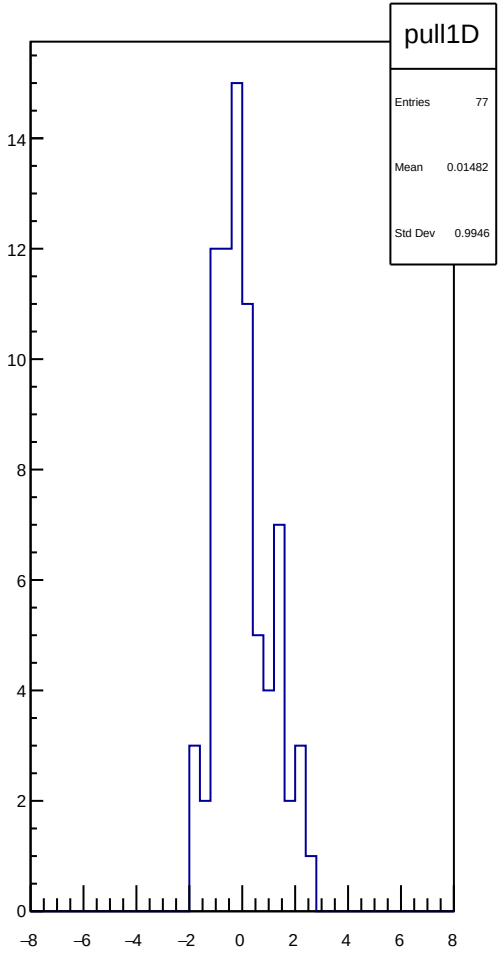

pull1D
Entries 77
Mean 0.0158
Std Dev 1.018

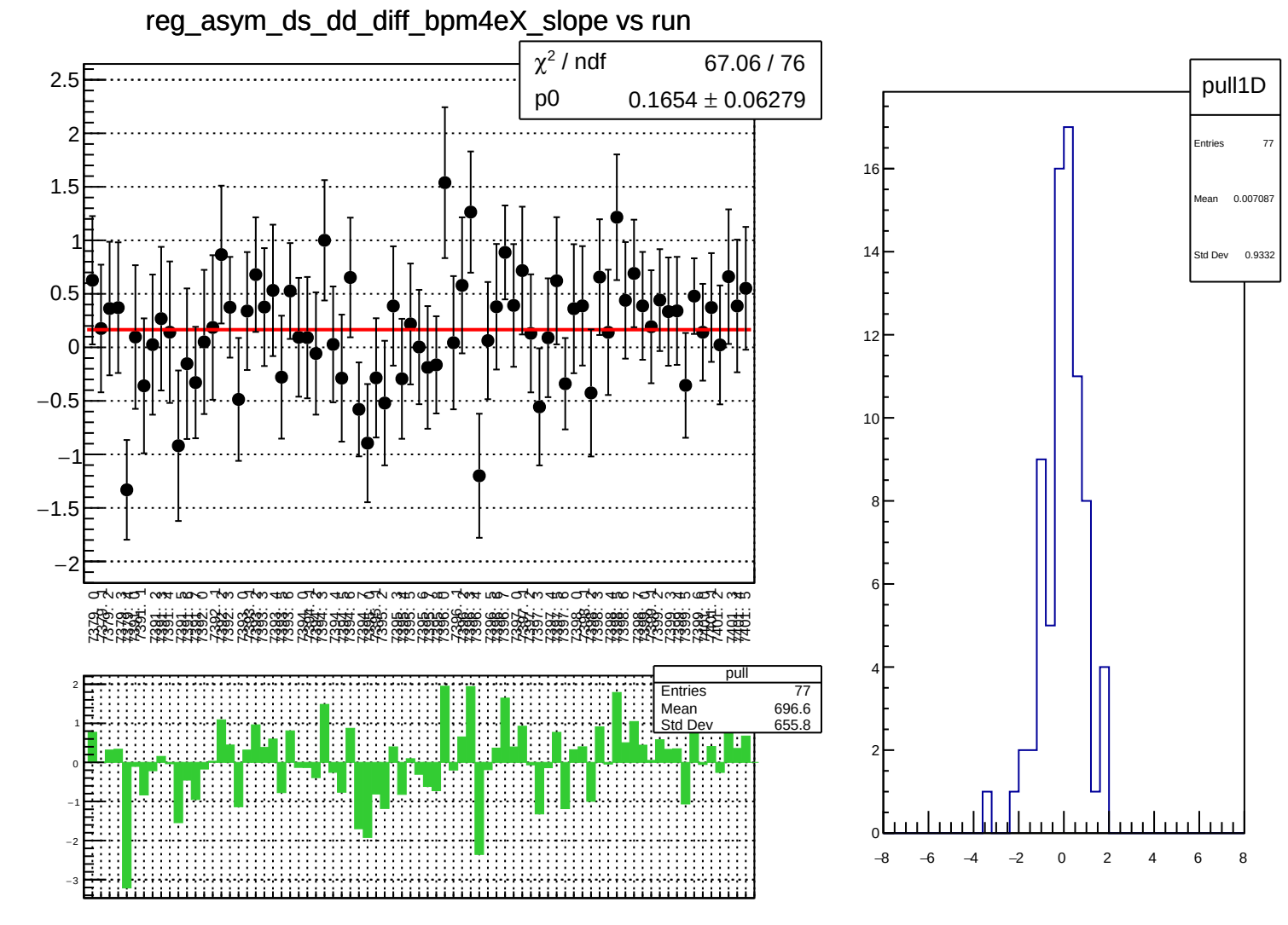

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 88.54 / 76
p0 0.003762 ± 0.003068
pull
Entries 77
Mean −109.2
Std Dev 111.9

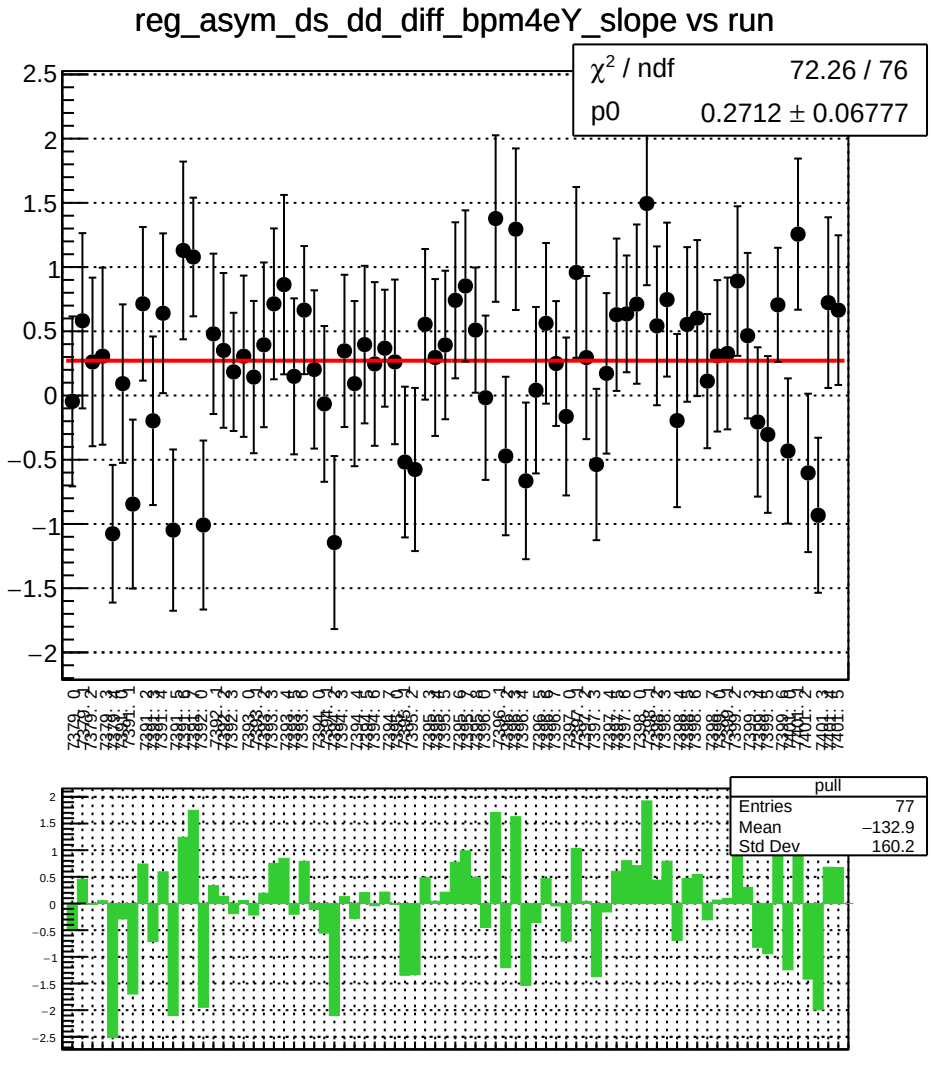

pull1D
Entries 77
Mean 0.008332
Std Dev 1.072

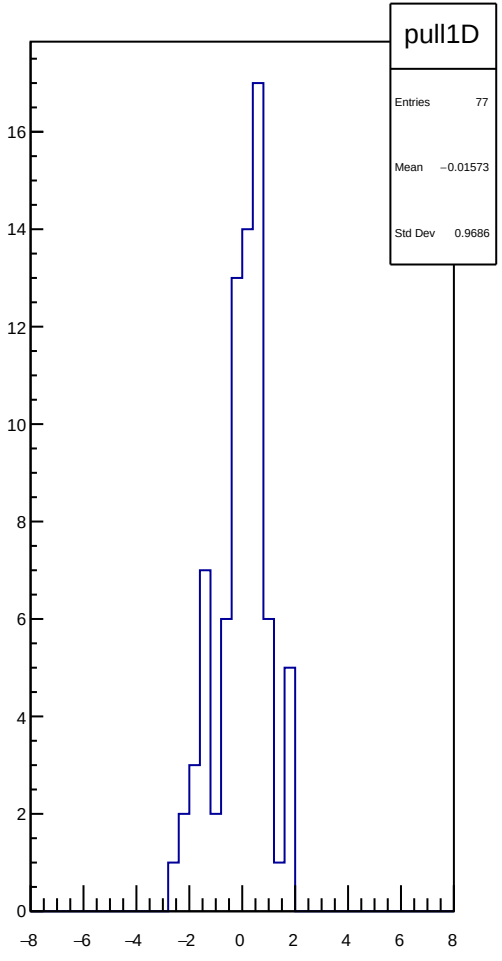

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 64.87 / 76
p0 −0.1281± 0.06049
pull
Entries 77
Mean 872
Std Dev 831.2
pull1D
Entries 77
Mean −0.006268
Std Dev 0.9178

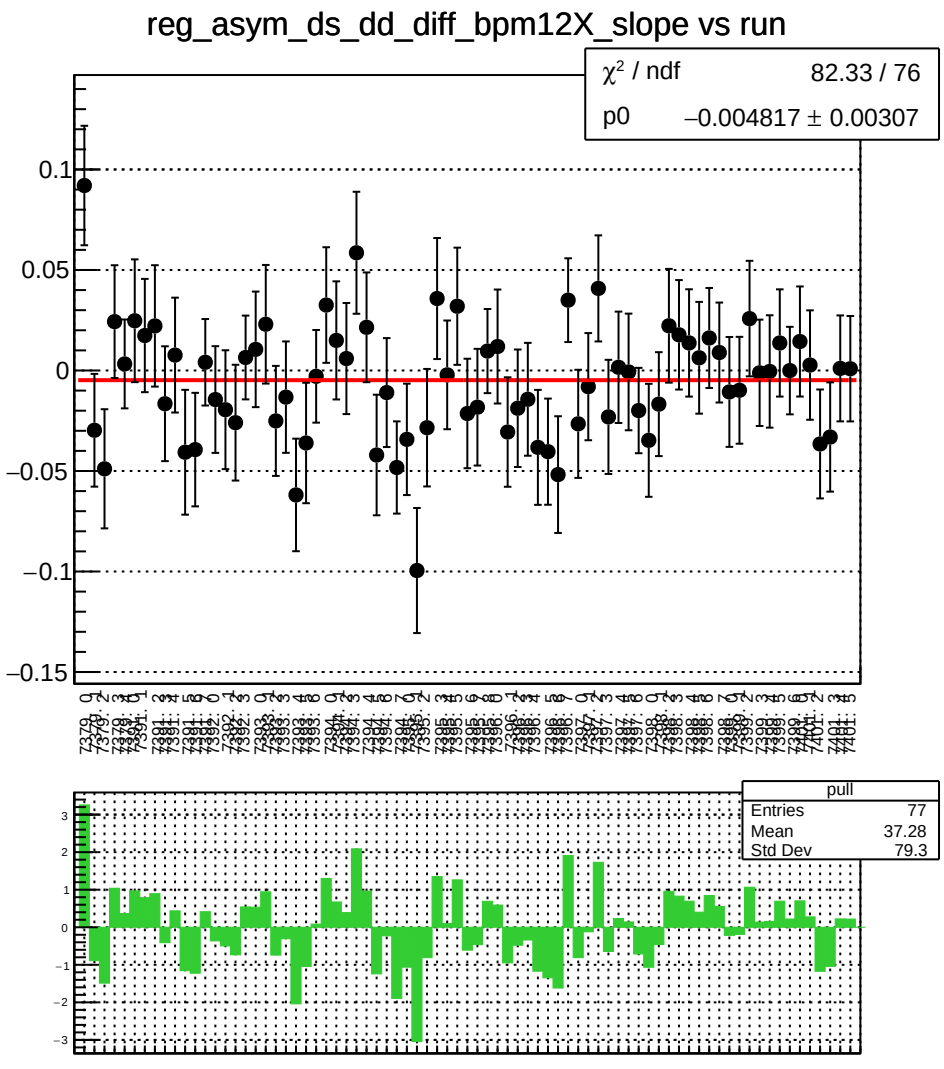

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 76.19 / 76
p0 −0.2422 ± 0.06366
pull
Entries 77
Mean −118.3
Std Dev 144.2

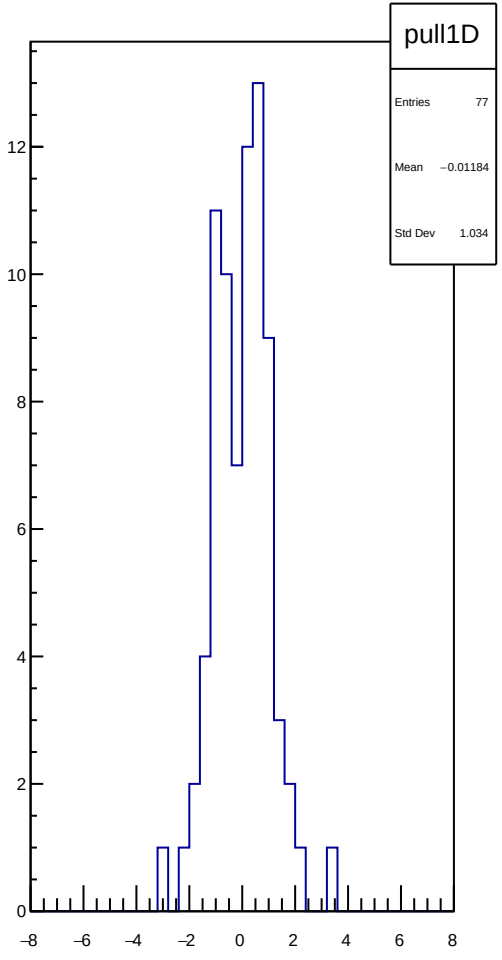

pull1D
Entries 77
Mean 0.01482
Std Dev 0.9946

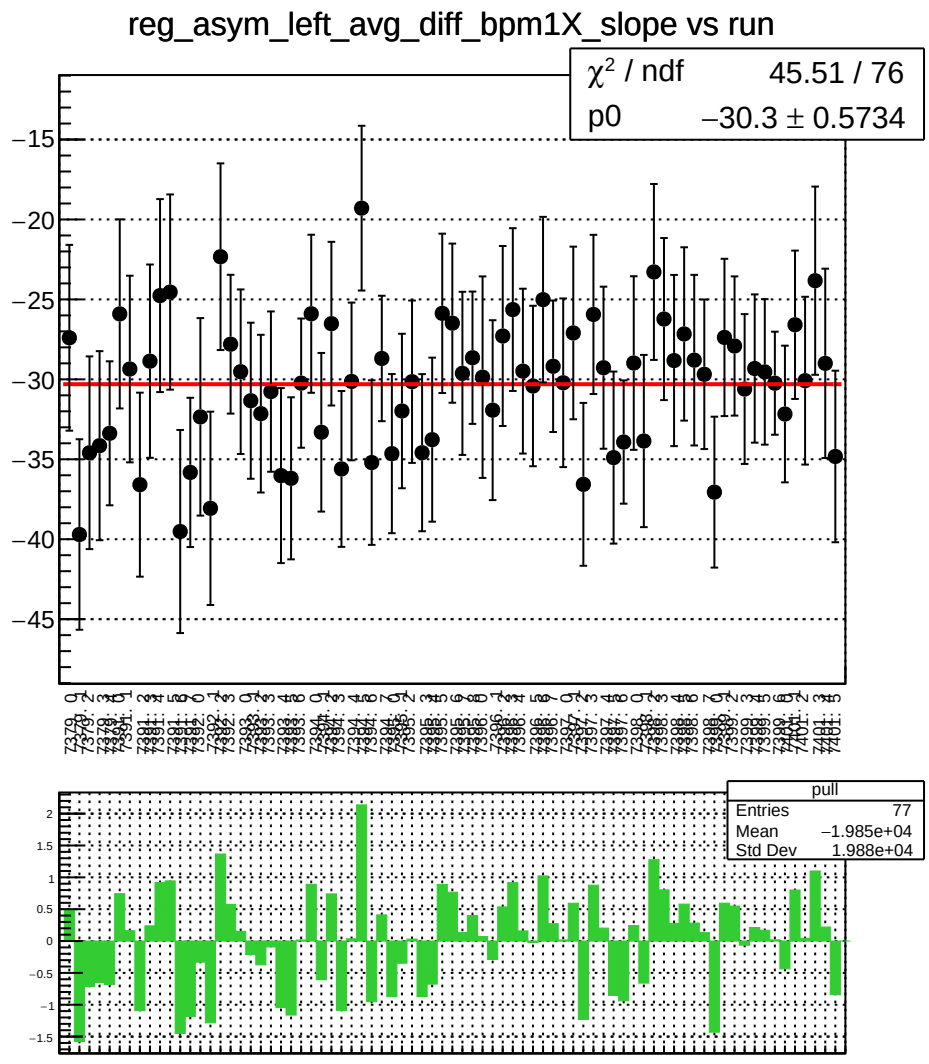

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.06 / 76
p0 0.1654 ± 0.06279
pull
Entries 77
Mean 696.6
Std Dev 655.8
pull1D
Entries 77
Mean 0.007087
Std Dev 0.9332

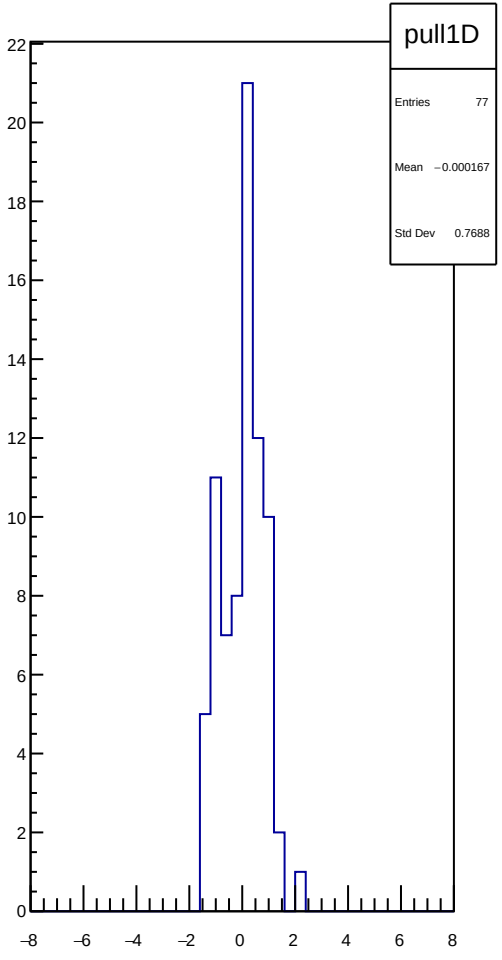

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.26 / 76
p0 0.2712 ± 0.06777
pull
Entries 77
Mean −132.9
Std Dev 160.2

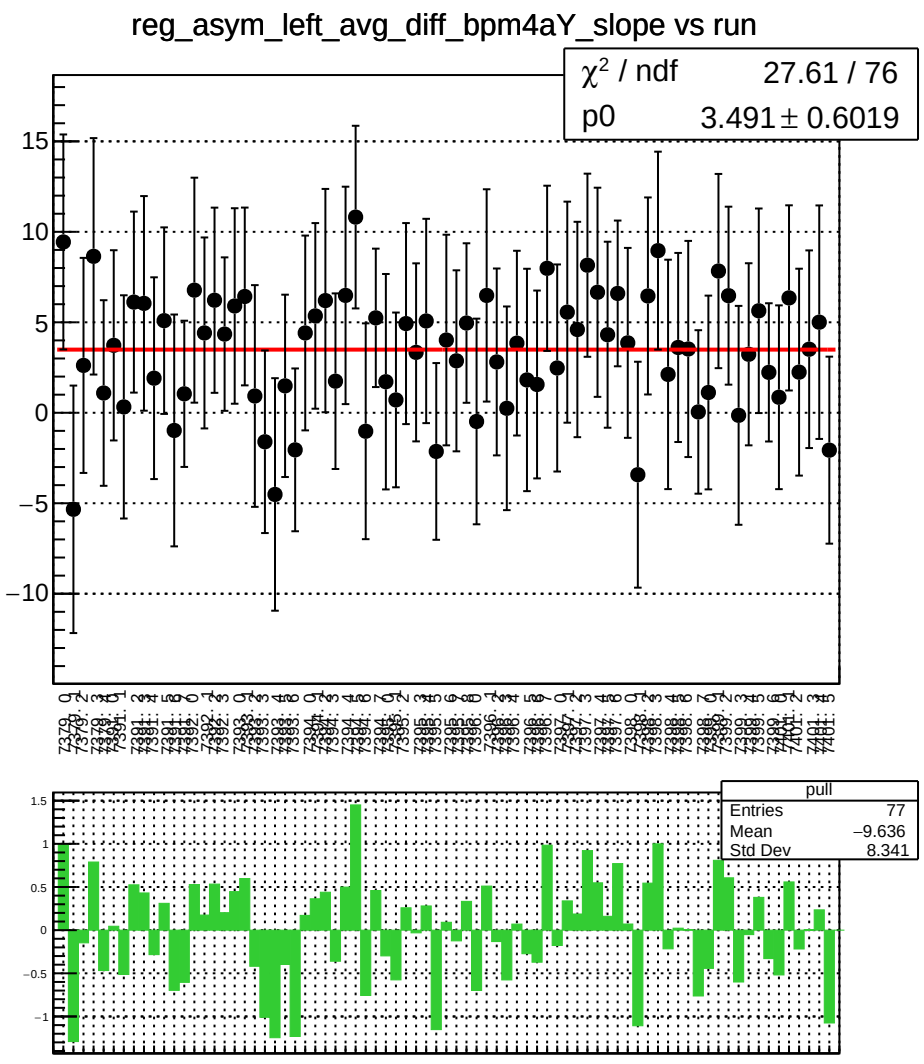

pull1D
Entries 77
Mean −0.01573
Std Dev 0.9686

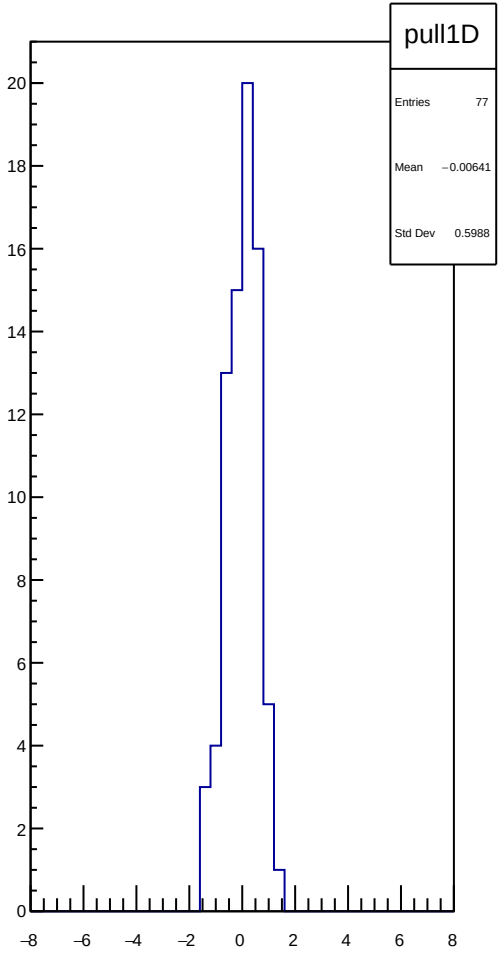

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 82.33 / 76
p0 −0.004817 ± 0.00307
pull
Entries 77
Mean 37.28
Std Dev 79.3

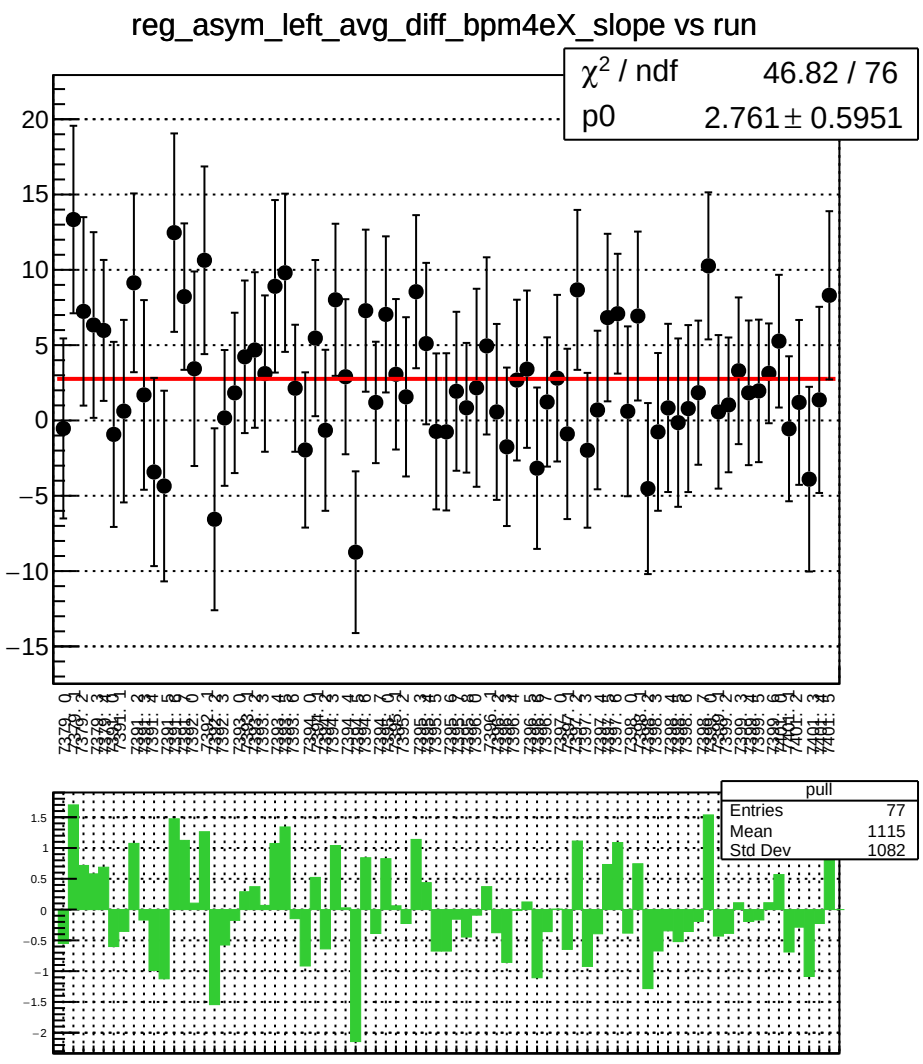

pull1D
Entries 77
Mean −0.01184
Std Dev 1.034

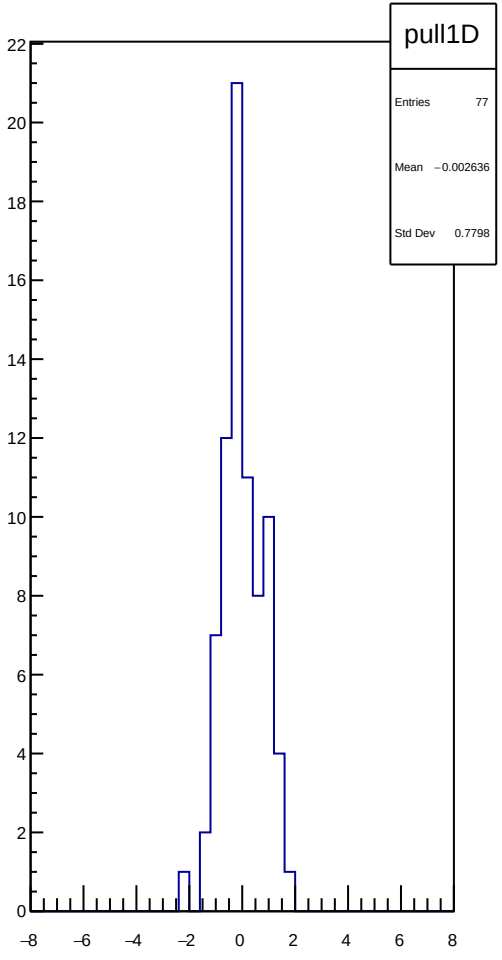

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 45.51 / 76
p0 −30.3 ± 0.5734
pull
Entries 77
Mean −1.985e+04
Std Dev 1.988e+04

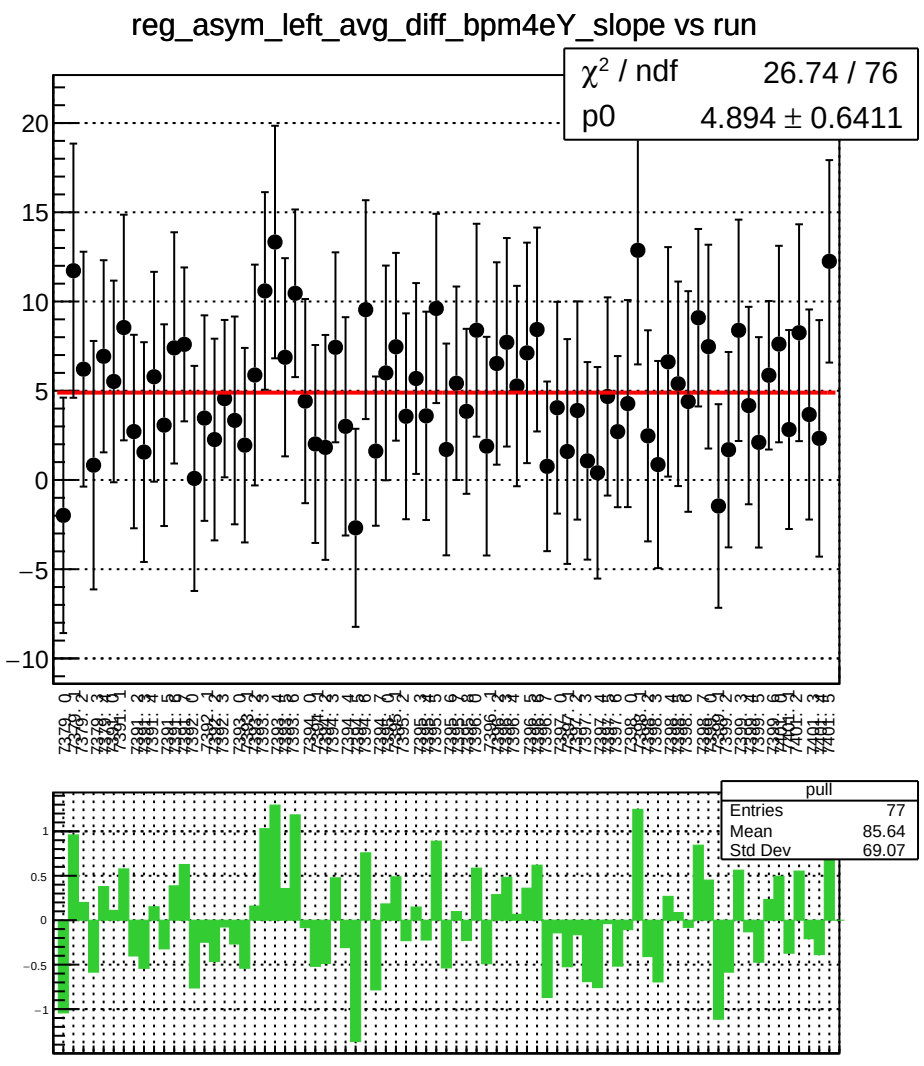

pull1D
Entries 77
Mean −0.000167
Std Dev 0.7688

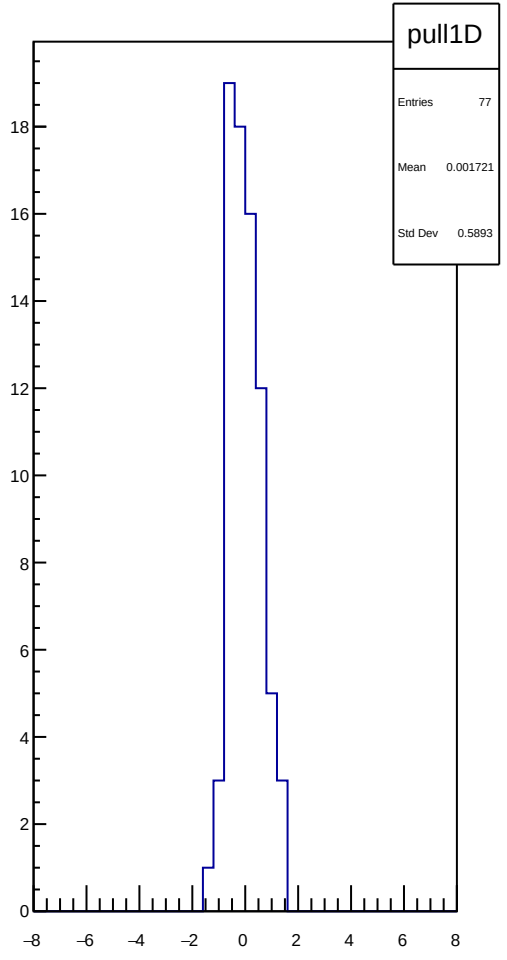

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.61 / 76
p0 3.491 ± 0.6019
pull
Entries 77
Mean −9.636
Std Dev 8.341

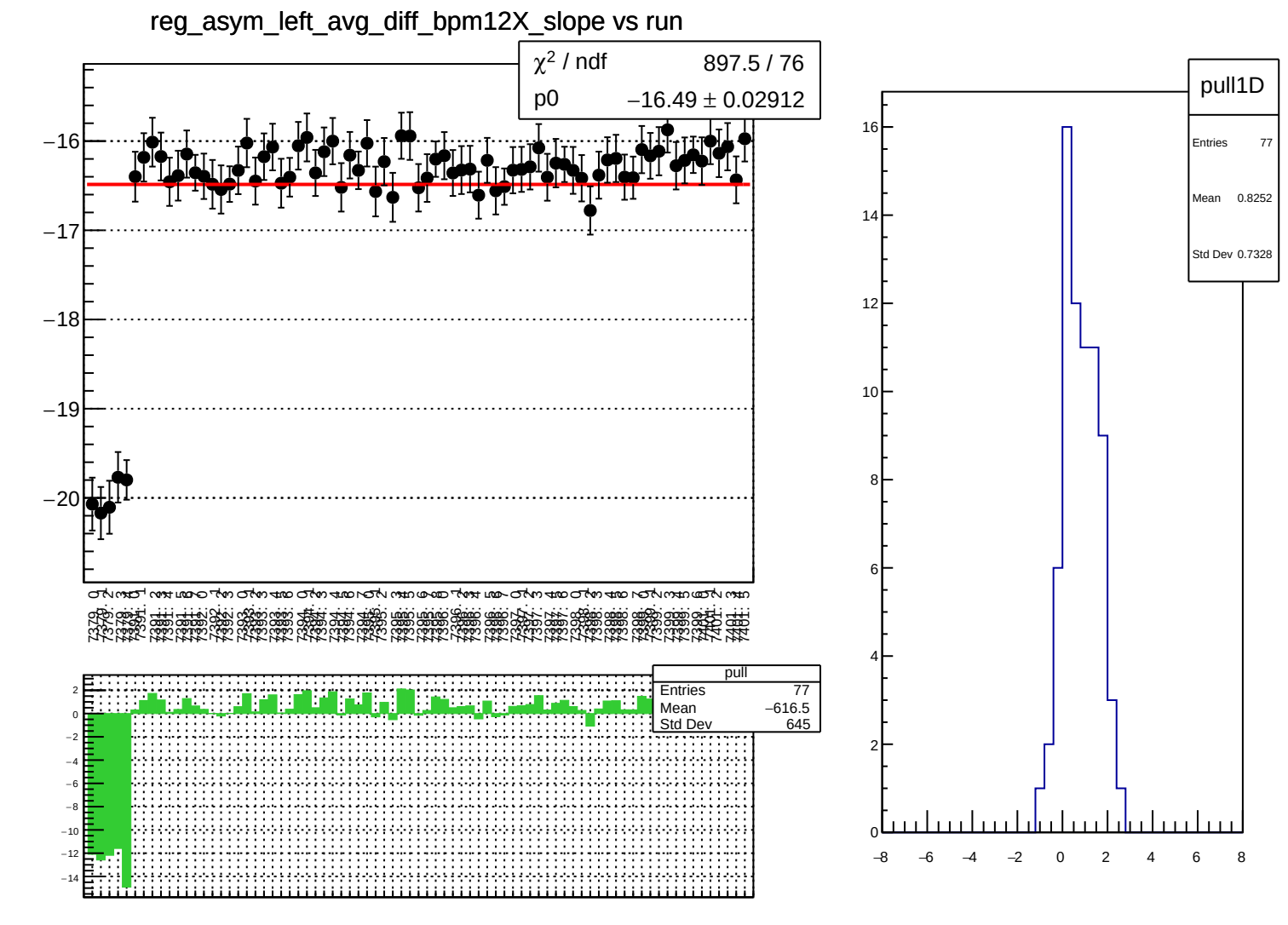

pull1D
Entries 77
Mean −0.00641
Std Dev 0.5988

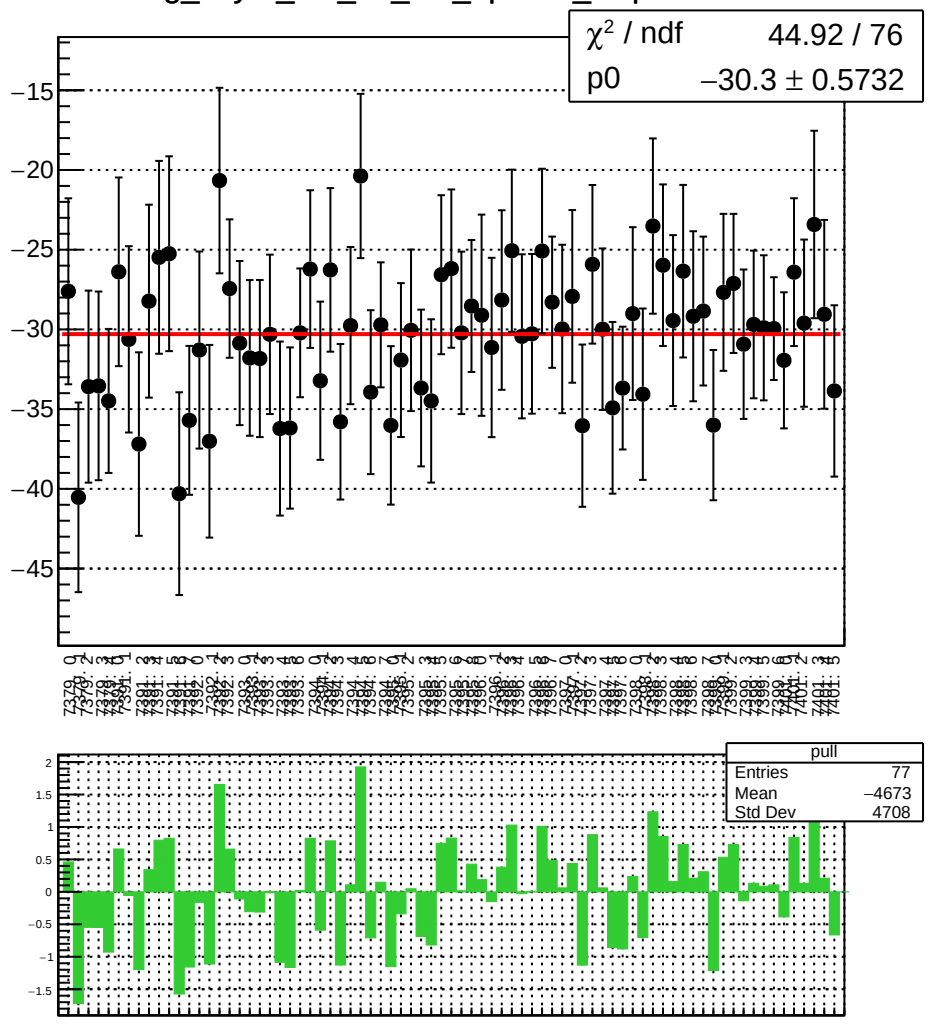

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.82 / 76
p0 2.761 ± 0.5951
pull
Entries 77
Mean 1115
Std Dev 1082

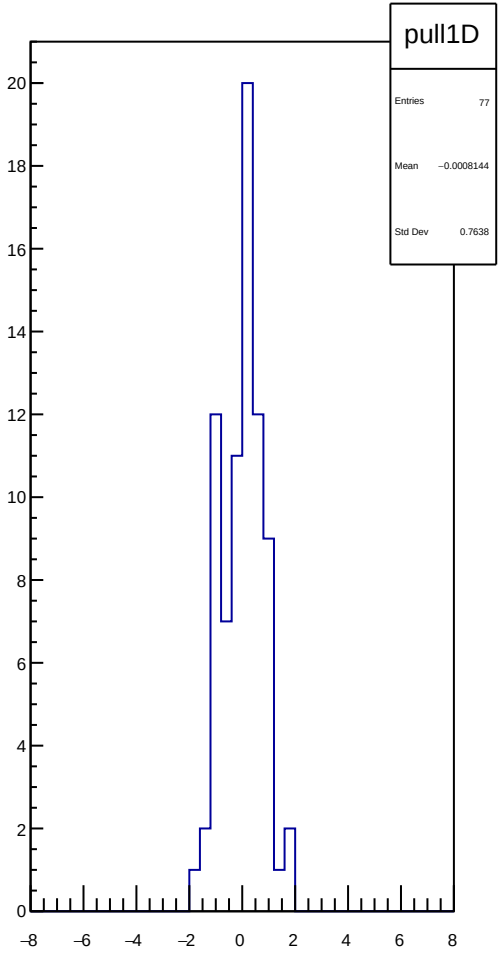

pull1D
Entries 77
Mean −0.002636
Std Dev 0.7798

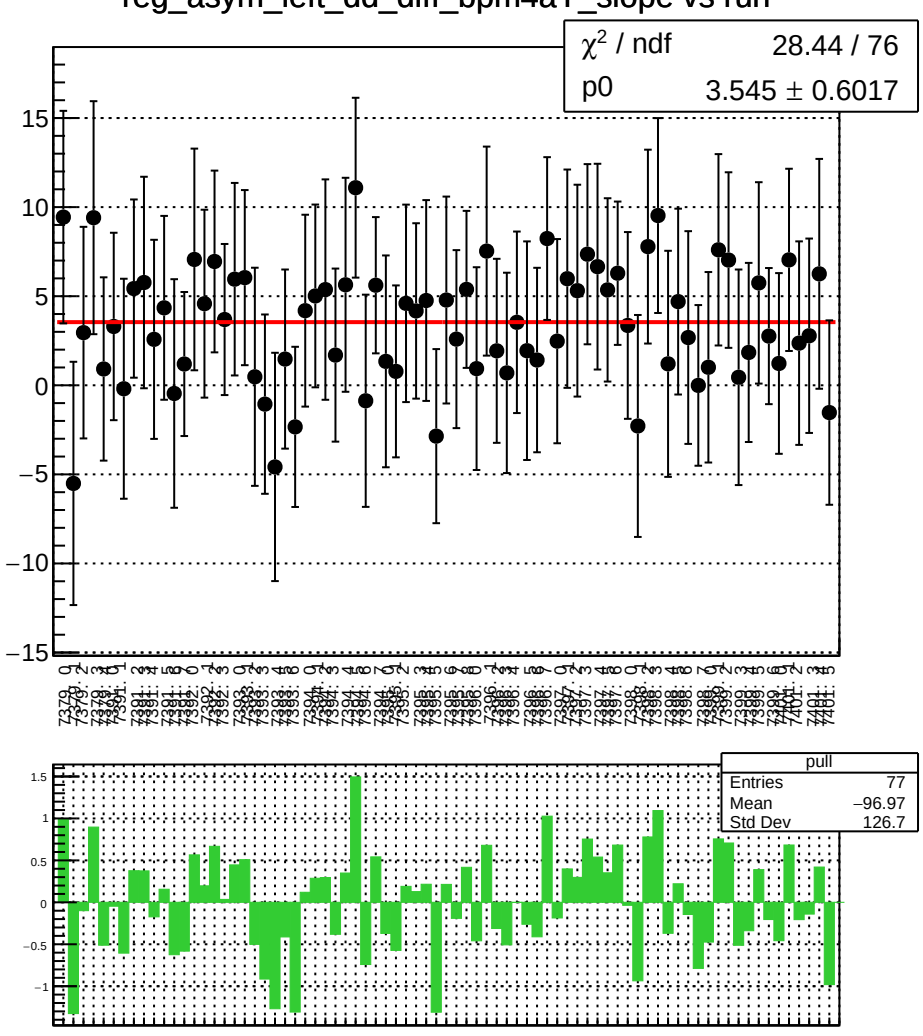

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.74 / 76
p0 4.894 ± 0.6411
pull
Entries 77
Mean 85.64
Std Dev 69.07

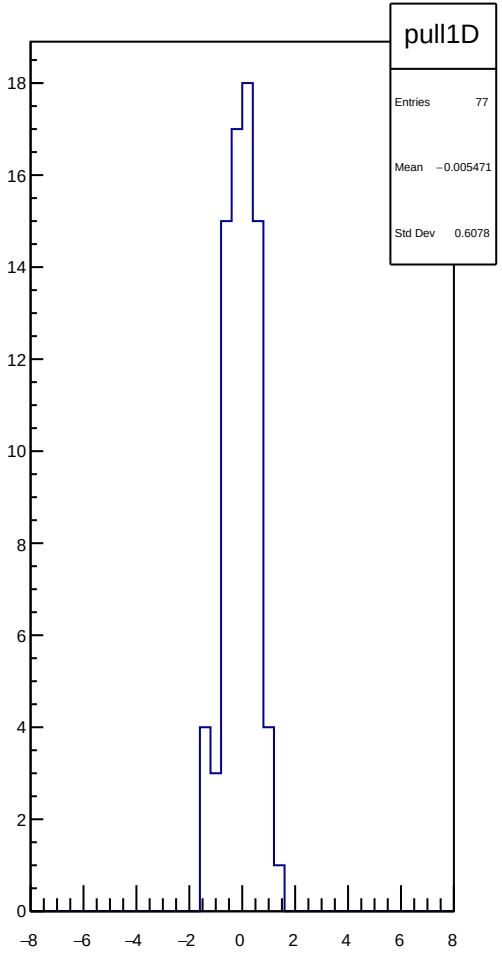

pull1D
Entries 77
Mean 0.001721
Std Dev 0.5893

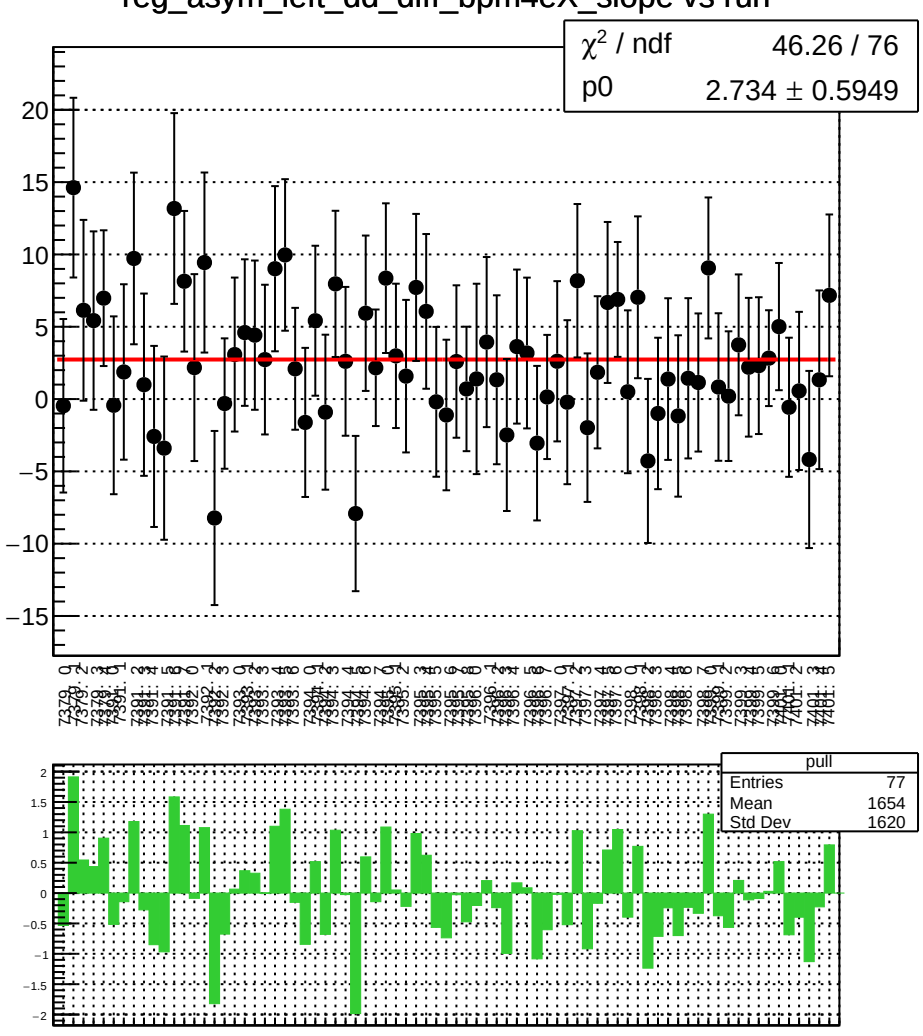

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 897.5 / 76
p0 −16.49 ± 0.02912
pull
Entries 77
Mean −616.5
Std Dev 645
pull1D
Entries 77
Mean 0.8252
Std Dev 0.7328

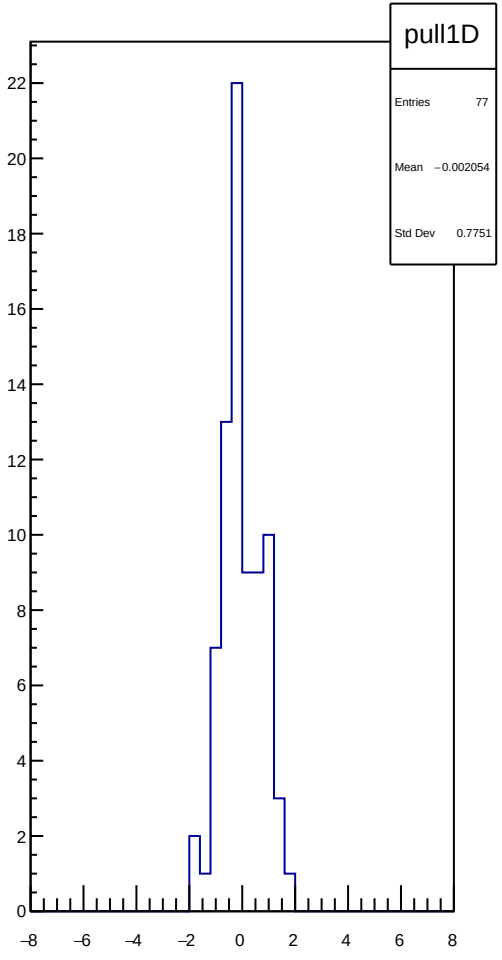

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 44.92 / 76
p0 −30.3 ± 0.5732
pull
Entries 77
Mean −4673
Std Dev 4708

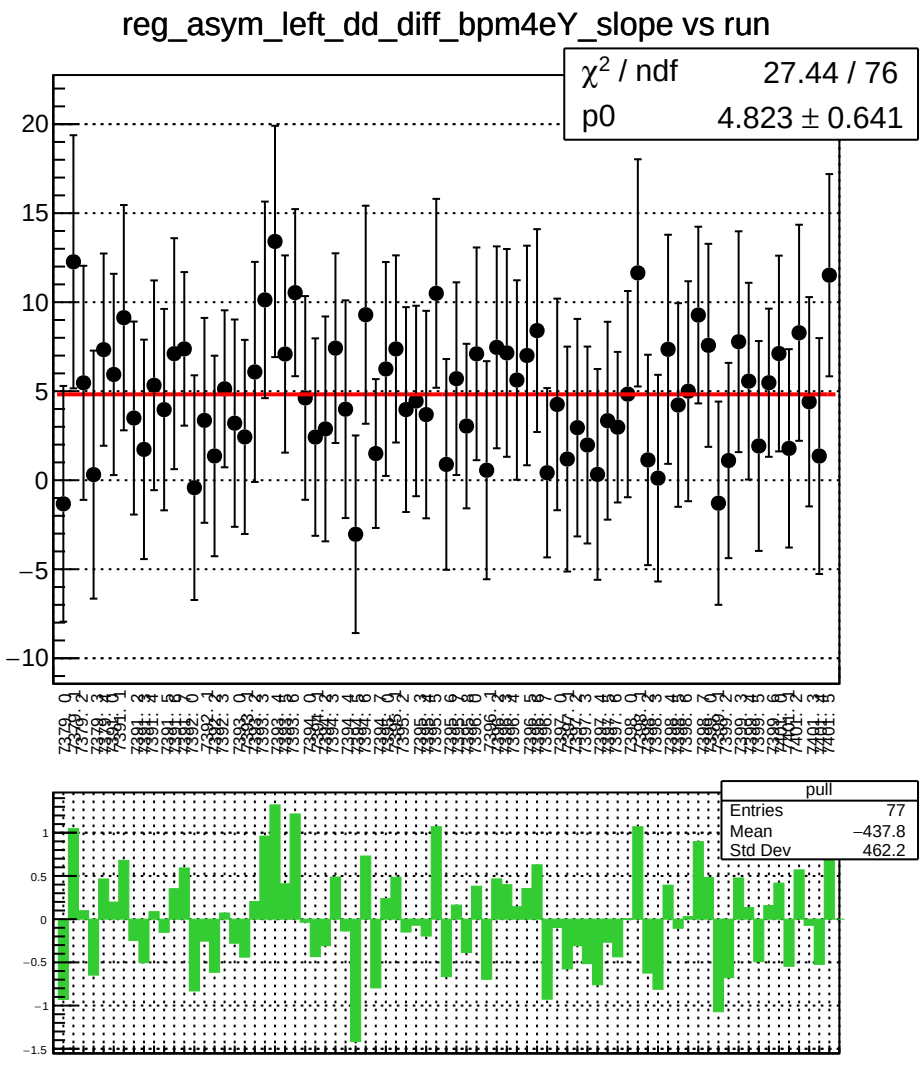

pull1D
Entries 77
Mean −0.0008144
Std Dev 0.7638

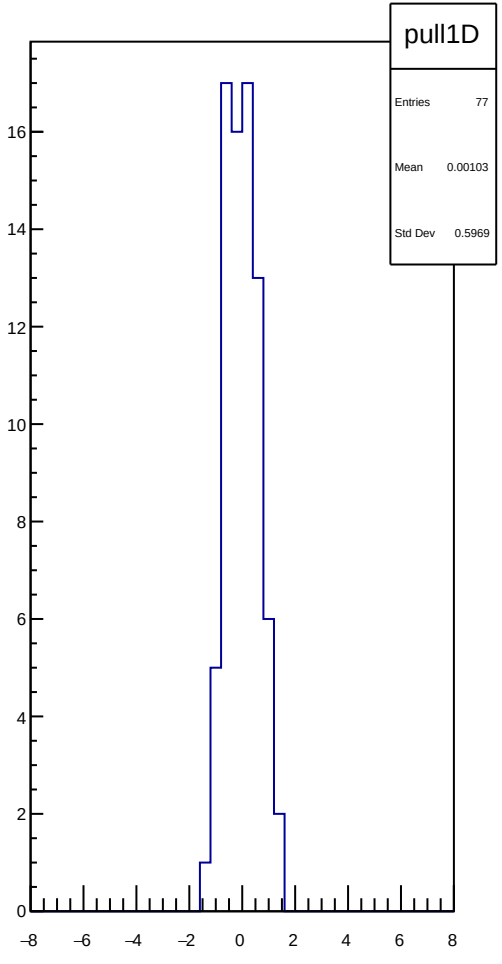

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.44 / 76
p0 3.545 ± 0.6017
pull
Entries 77
Mean −96.97
Std Dev 126.7

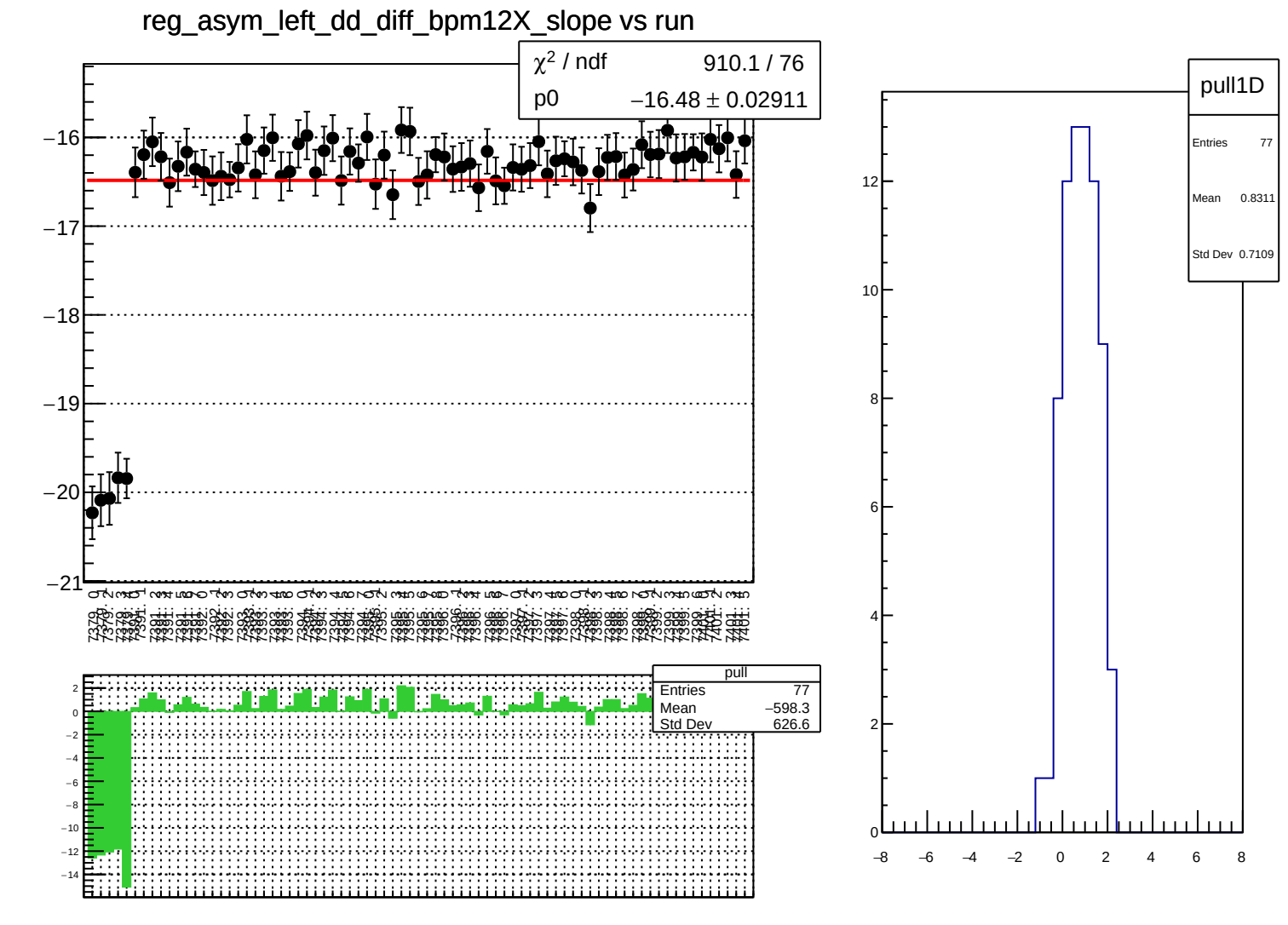

pull1D
Entries 77
Mean −0.005471
Std Dev 0.6078

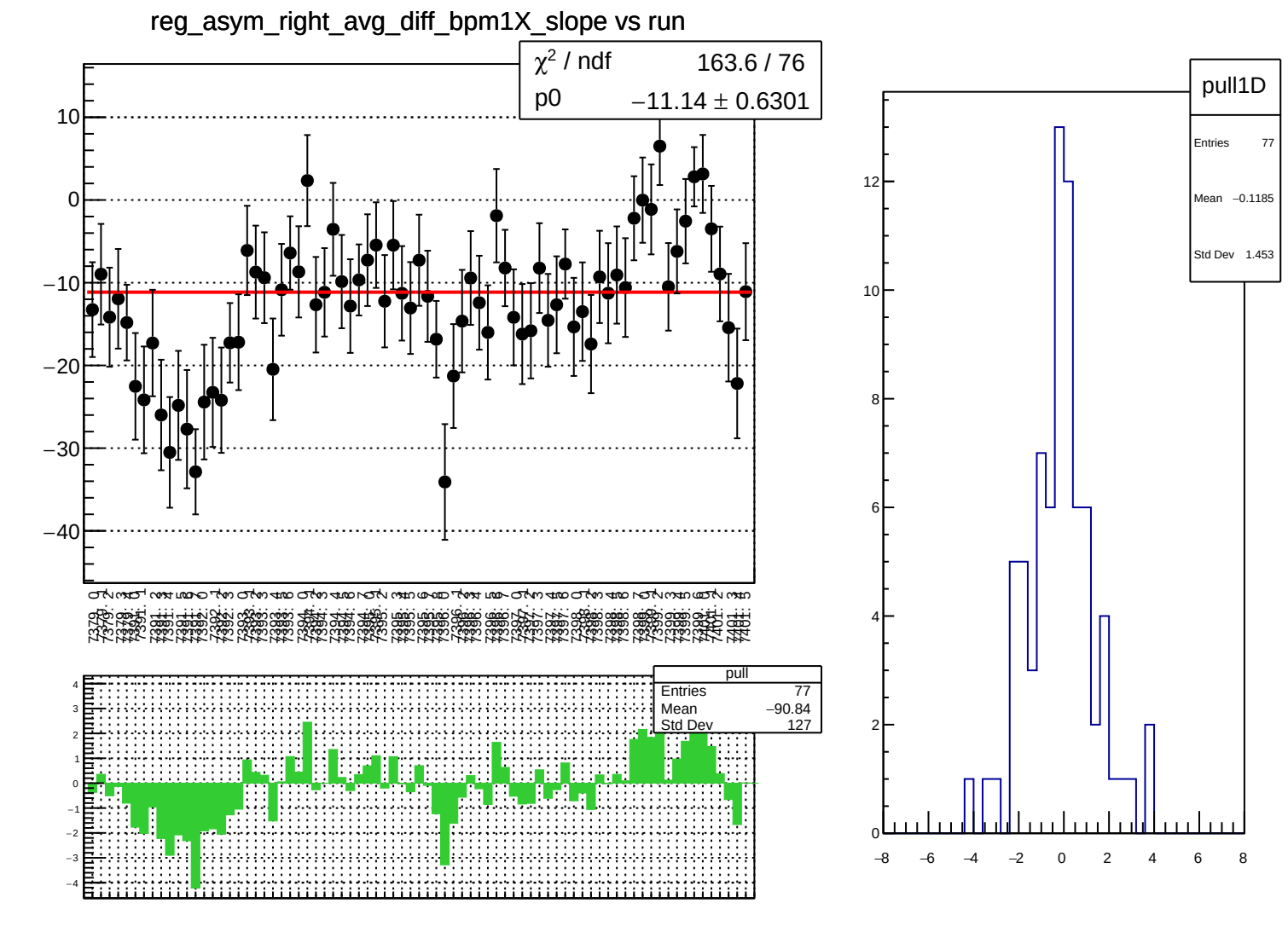

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.26 / 76
p0 2.734 ± 0.5949
pull
Entries 77
Mean 1654
Std Dev 1620

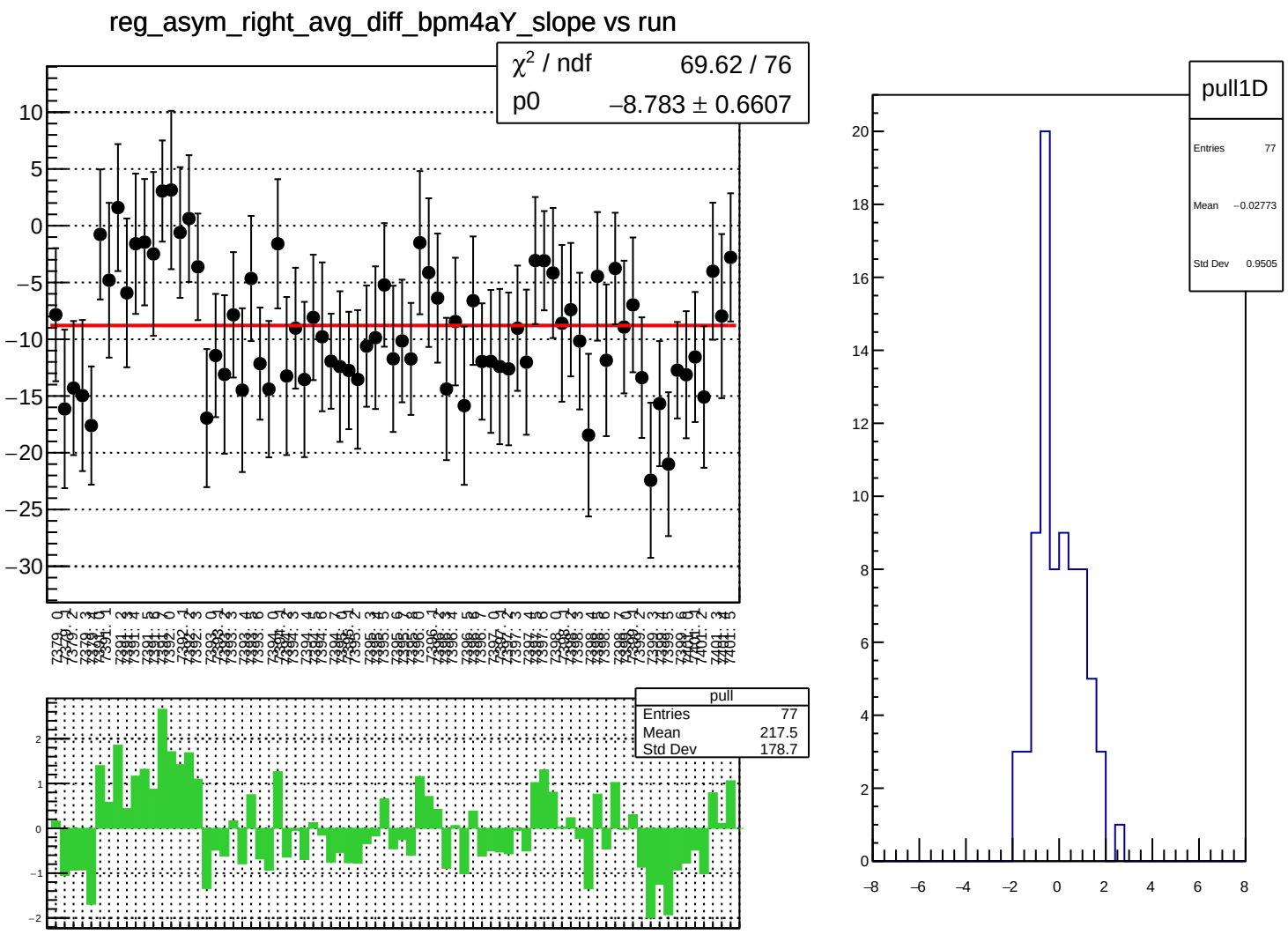

pull1D
Entries 77
Mean −0.002054
Std Dev 0.7751

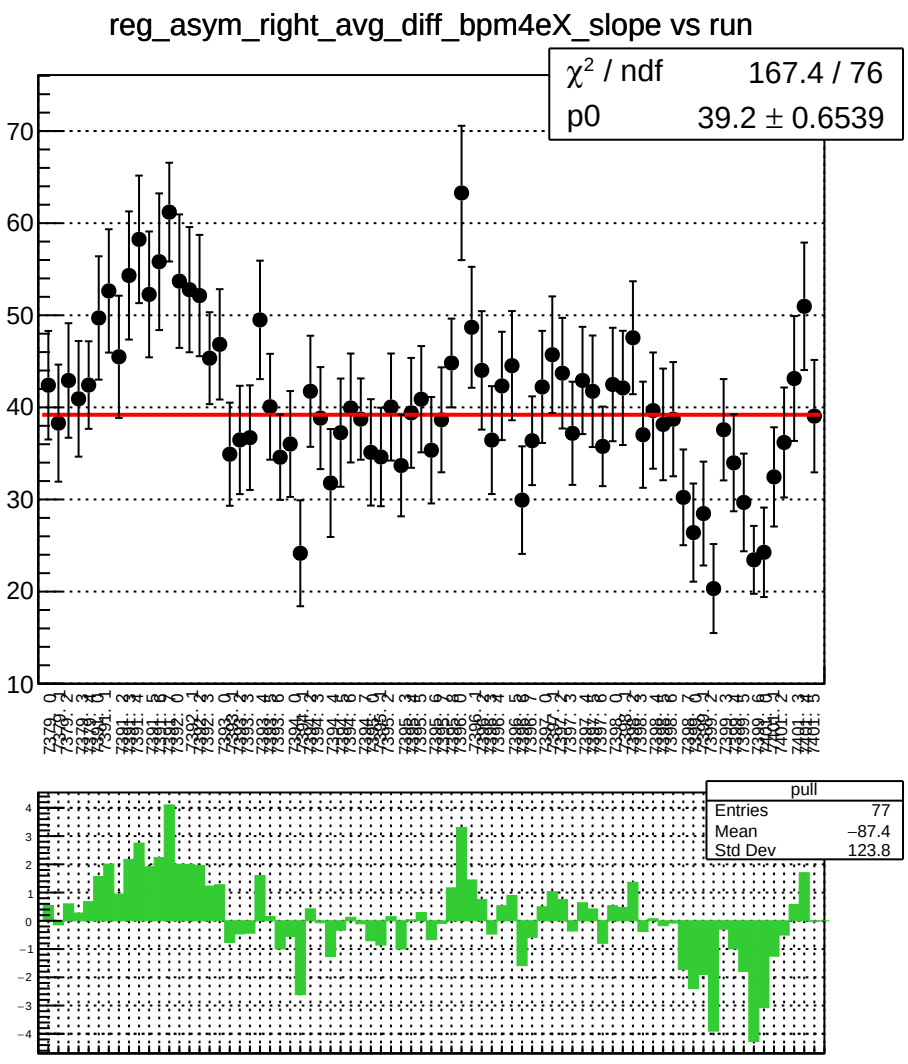

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.44 / 76
p0 4.823 ± 0.641
pull
Entries 77
Mean −437.8
Std Dev 462.2

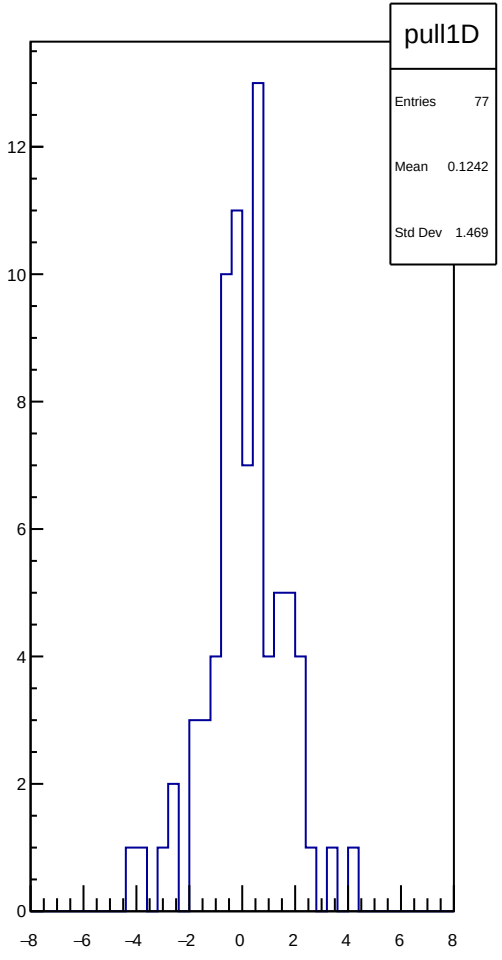

pull1D
Entries 77
Mean 0.00103
Std Dev 0.5969

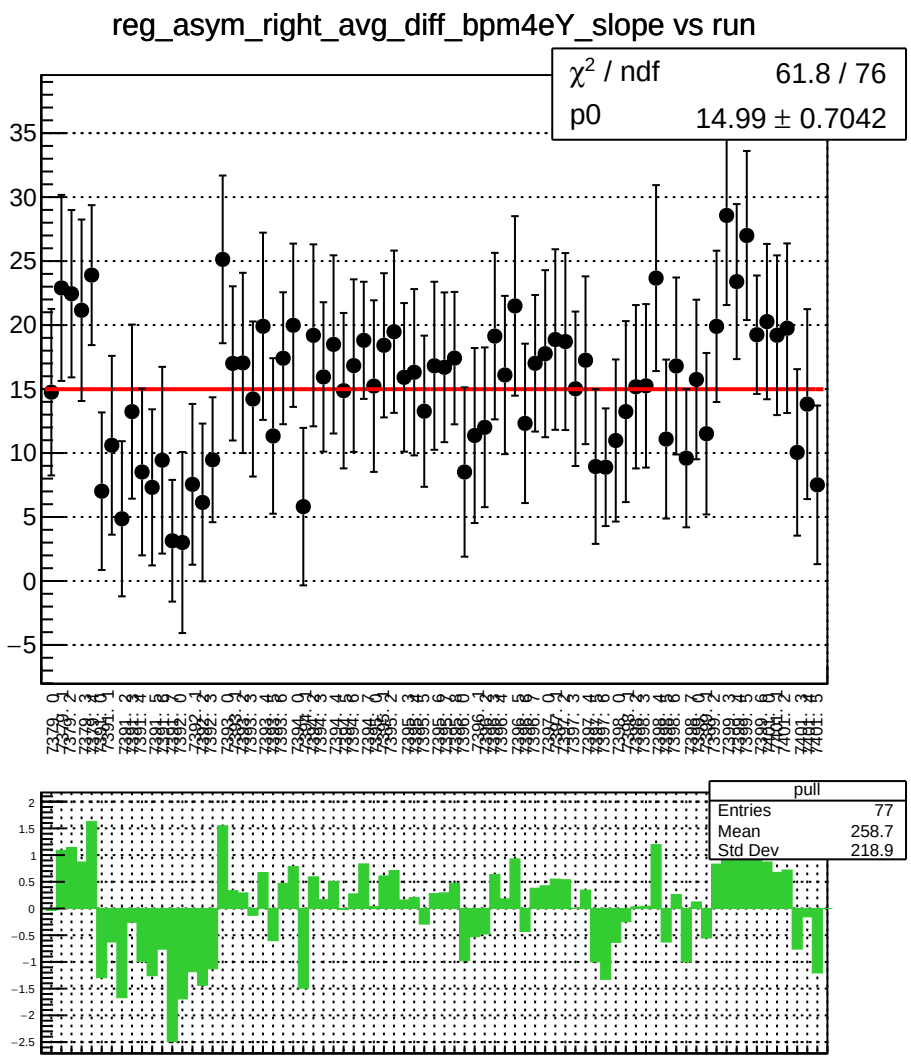

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 910.1 / 76
p0 −16.48 ± 0.02911
pull
Entries 77
Mean −598.3
Std Dev 626.6
pull1D
Entries 77
Mean 0.8311
Std Dev 0.7109

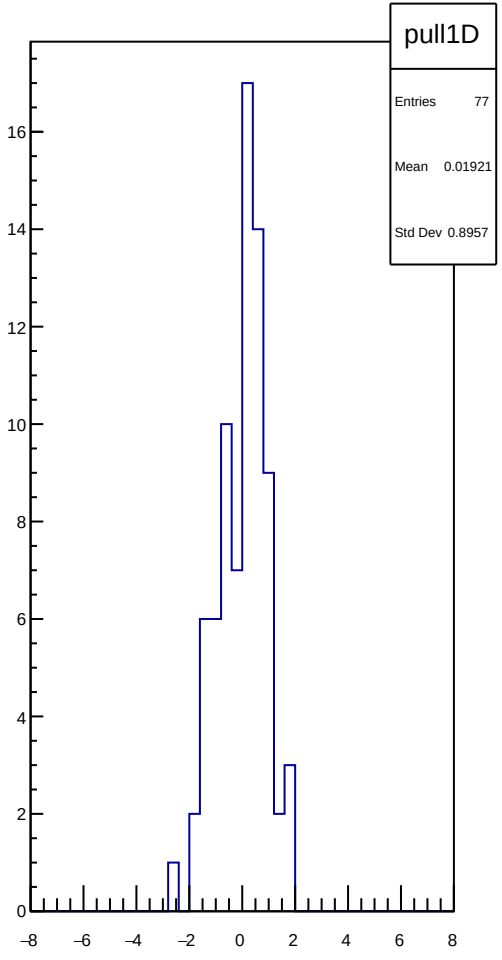

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 163.6 / 76
p0 −11.14 ± 0.6301
pull
Entries 77
Mean −90.84
Std Dev 127
pull1D
Entries 77
Mean −0.1185
Std Dev 1.453

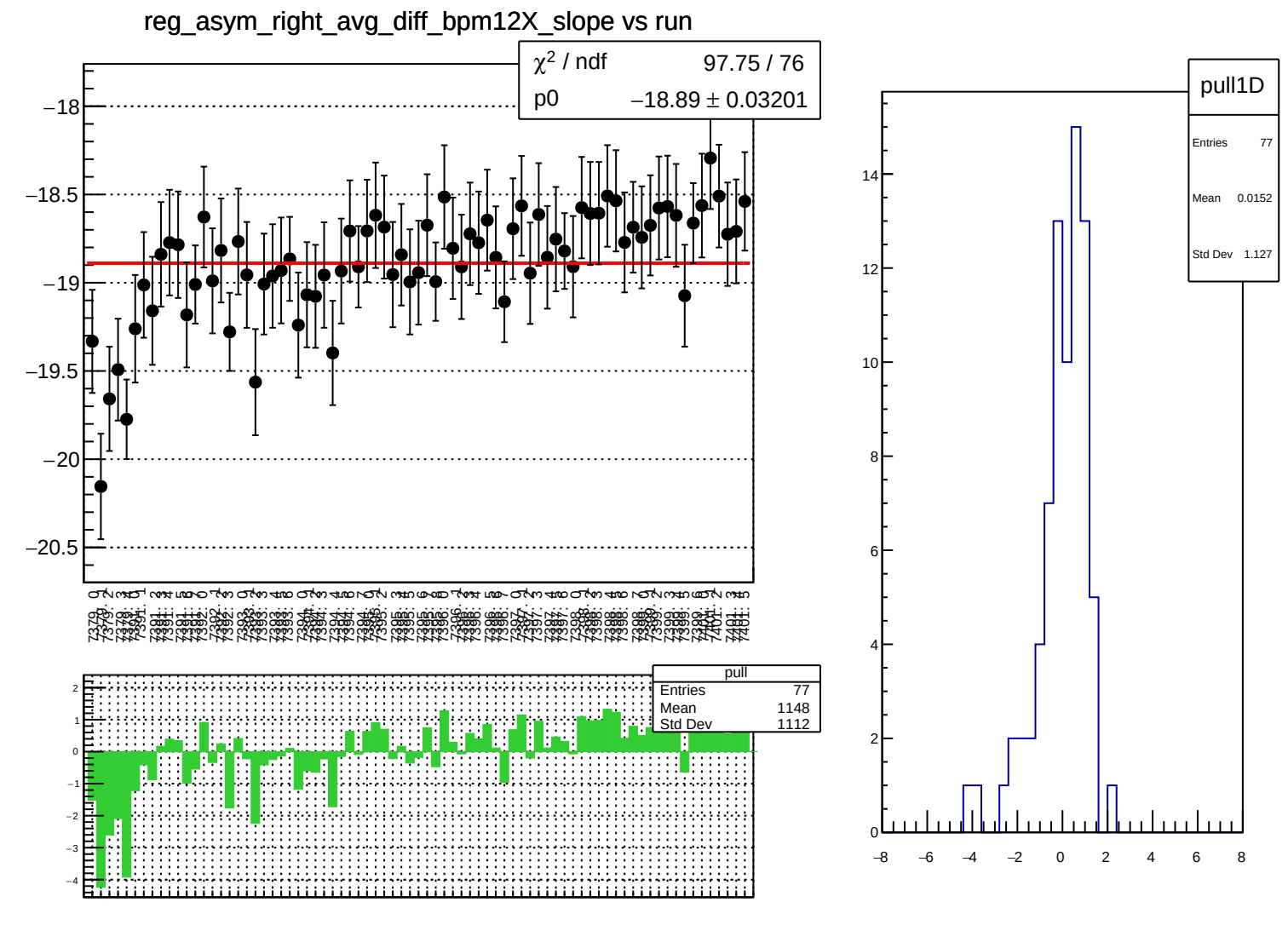

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 69.62 / 76
p0 −8.783 ± 0.6607
pull
Entries 77
Mean 217.5
Std Dev 178.7
pull1D
Entries 77
Mean −0.02773
Std Dev 0.9505

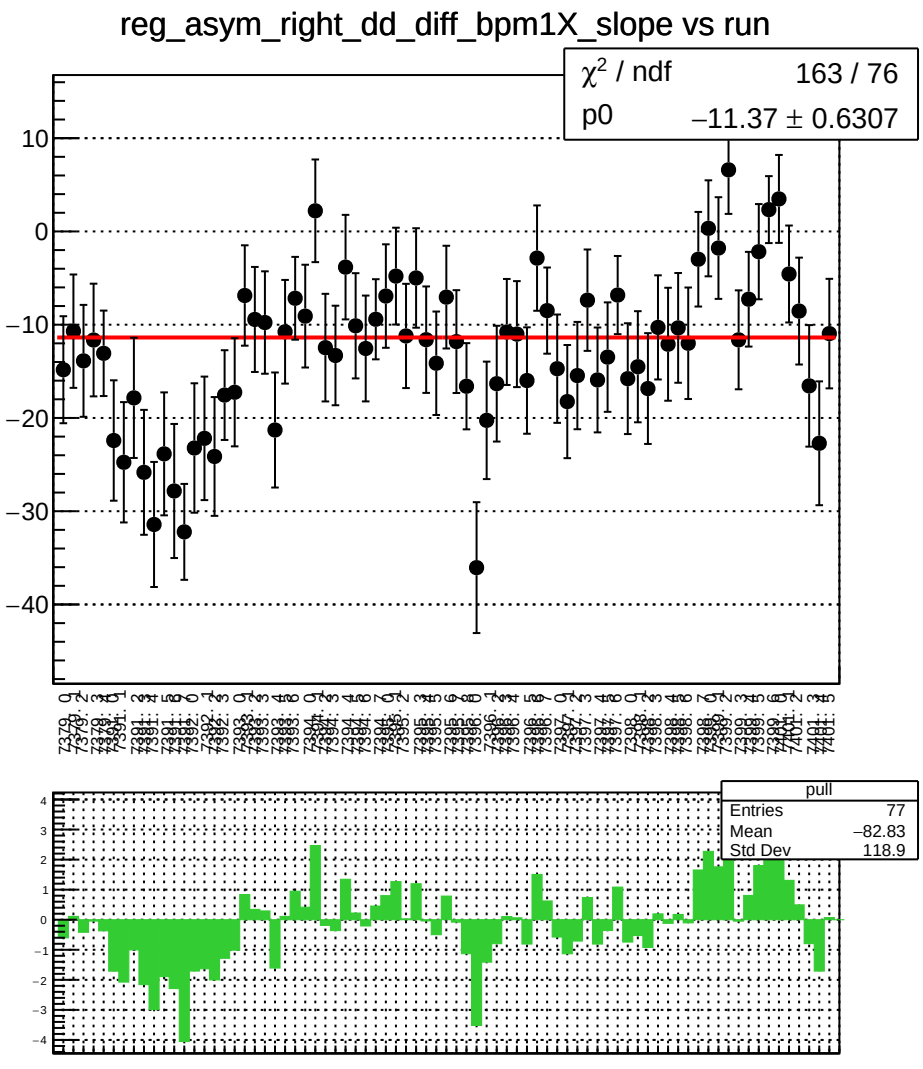

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 167.4 / 76
p0 39.2 ± 0.6539
pull
Entries 77
Mean −87.4
Std Dev 123.8

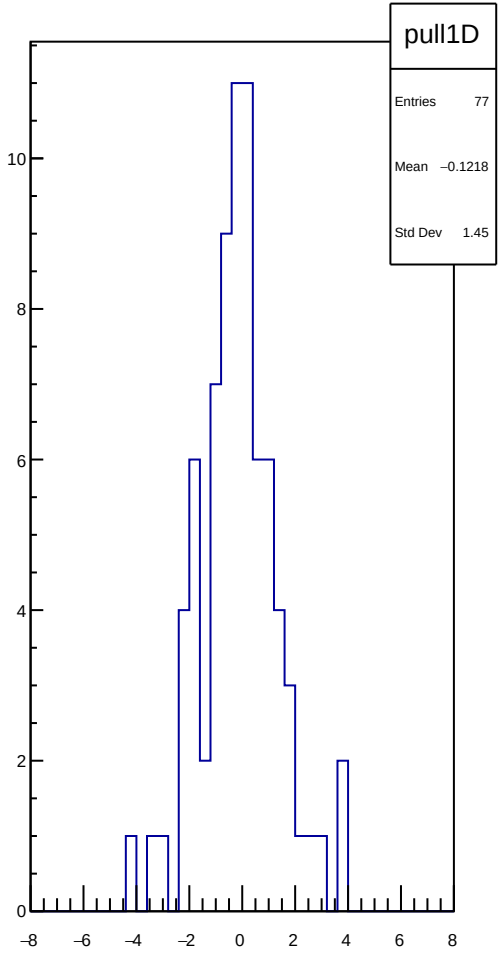

pull1D
Entries 77
Mean 0.1242
Std Dev 1.469

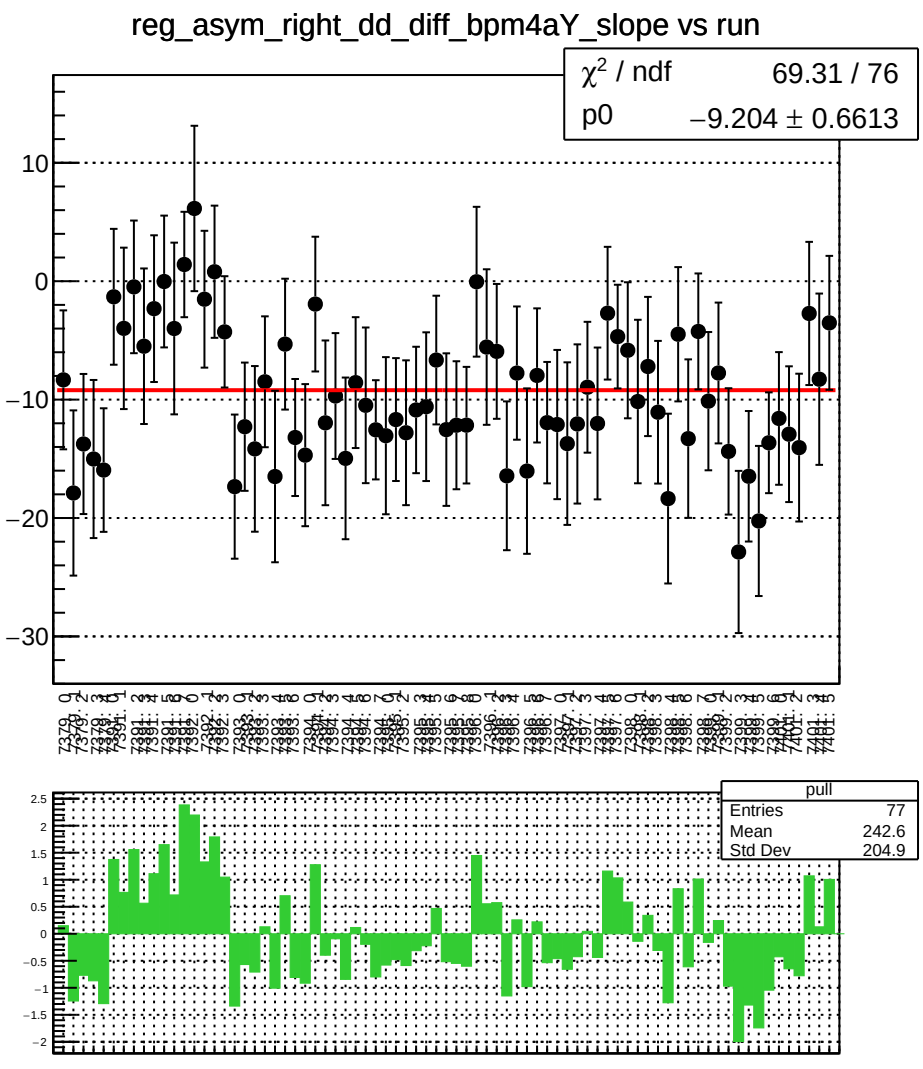

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 61.8 / 76
p0 14.99 ± 0.7042
pull
Entries 77
Mean 258.7
Std Dev 218.9

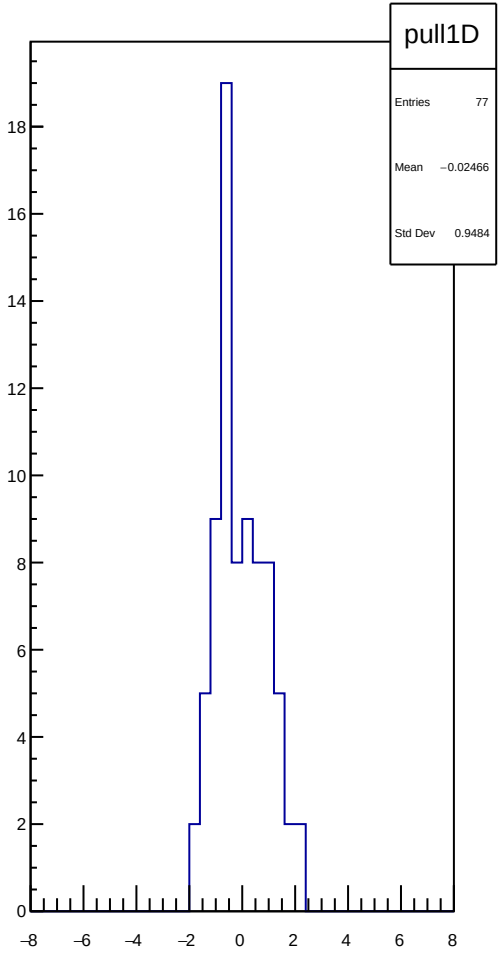

pull1D
Entries 77
Mean 0.01921
Std Dev 0.8957

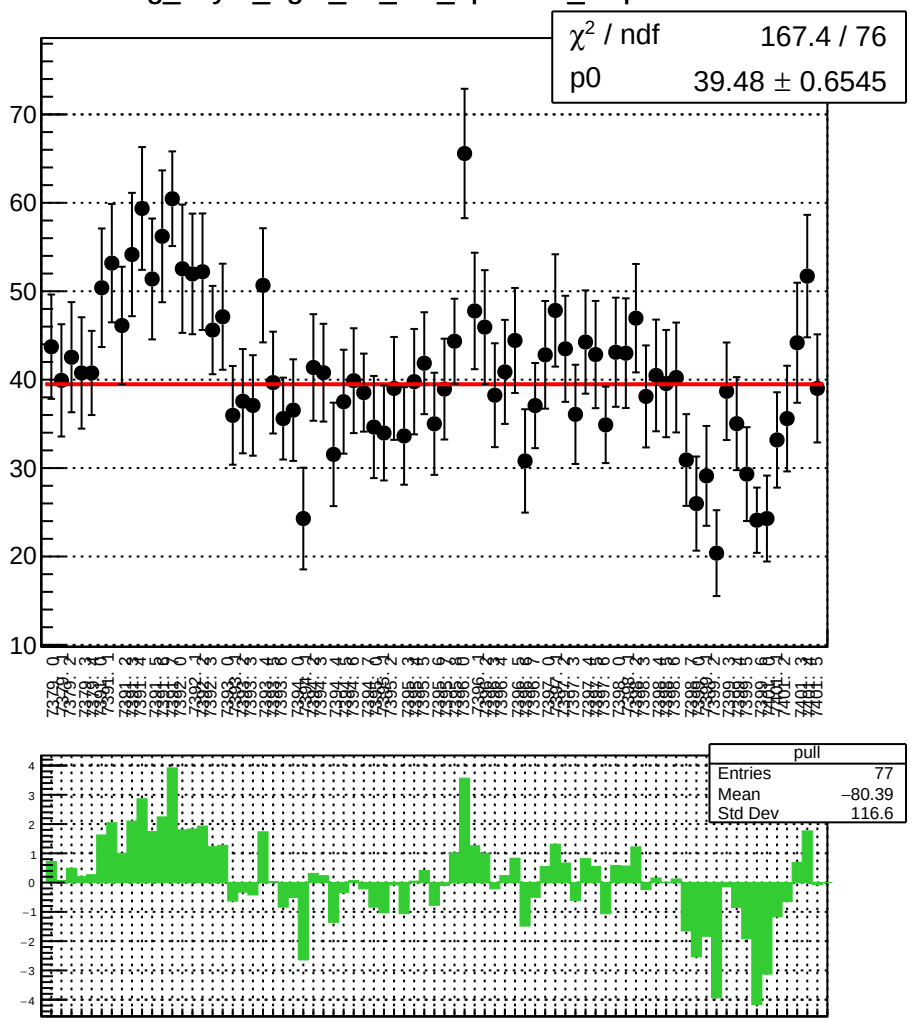

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 97.75 / 76
p0 −18.89 ± 0.03201
−18
−18.5
−19
−19.5
−20
−20.5
pull
Entries 77
Mean 1148
Std Dev 1112
2
1
0
−1
−2
−3
−4
pull1D
Entries 77
Mean 0.0152
Std Dev 1.127
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

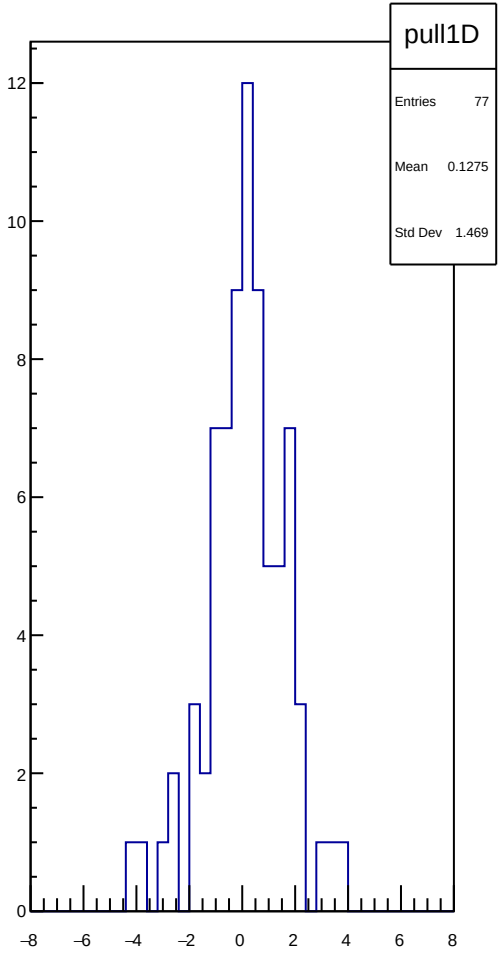

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 163 / 76
p0 −11.37 ± 0.6307
pull
Entries 77
Mean −82.83
Std Dev 118.9

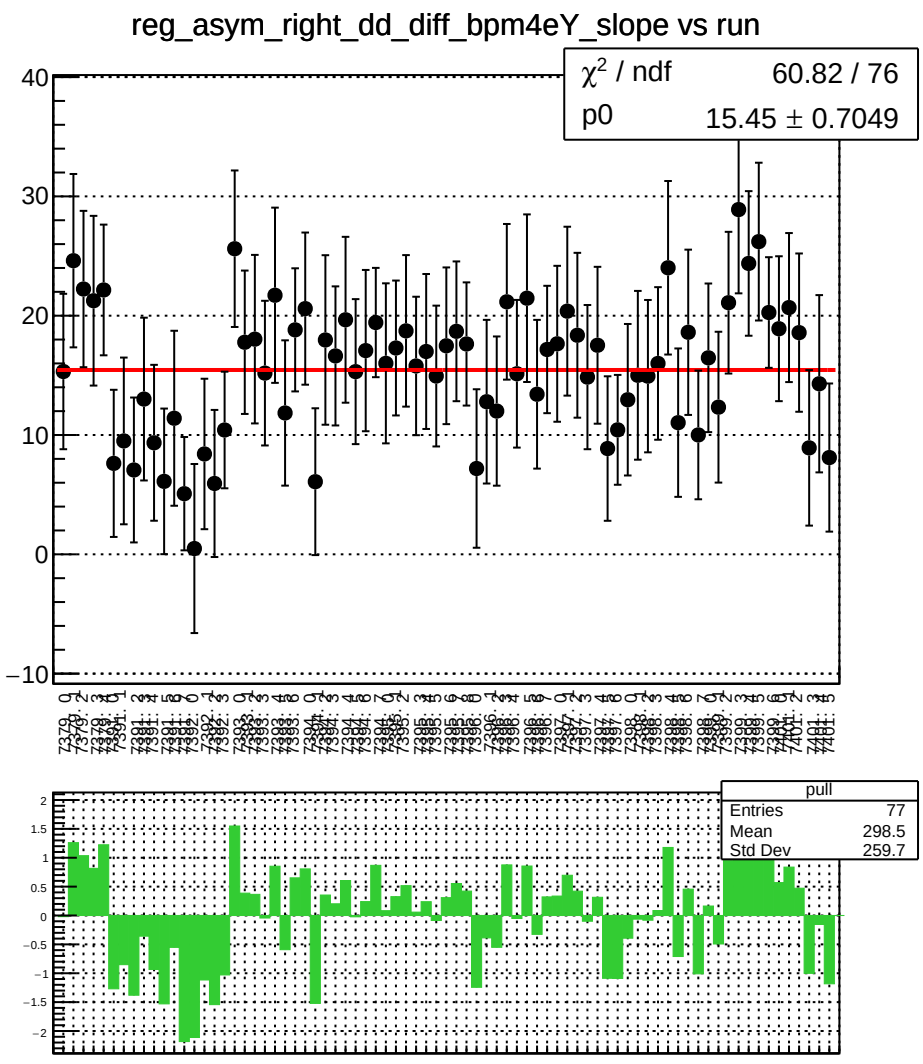

pull1D
Entries 77
Mean −0.1218
Std Dev 1.45

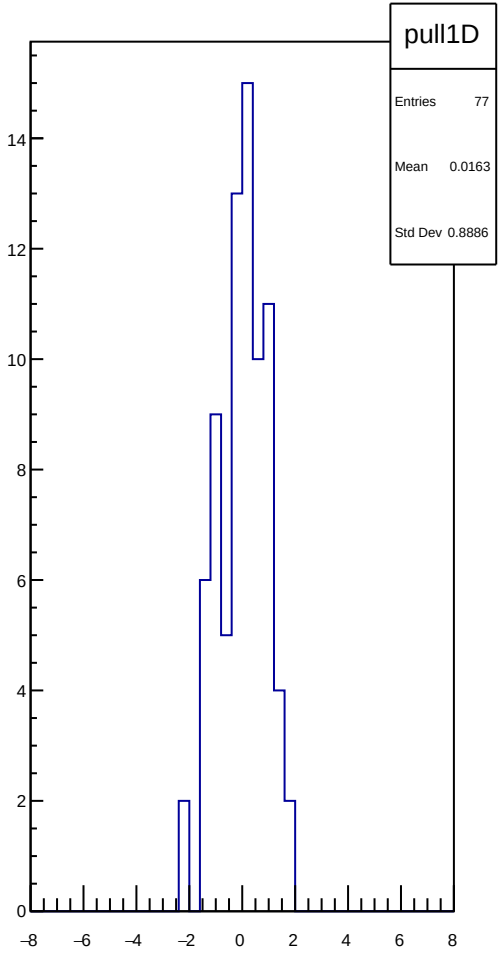

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.31 / 76
p0 −9.204 ± 0.6613
pull
Entries 77
Mean 242.6
Std Dev 204.9

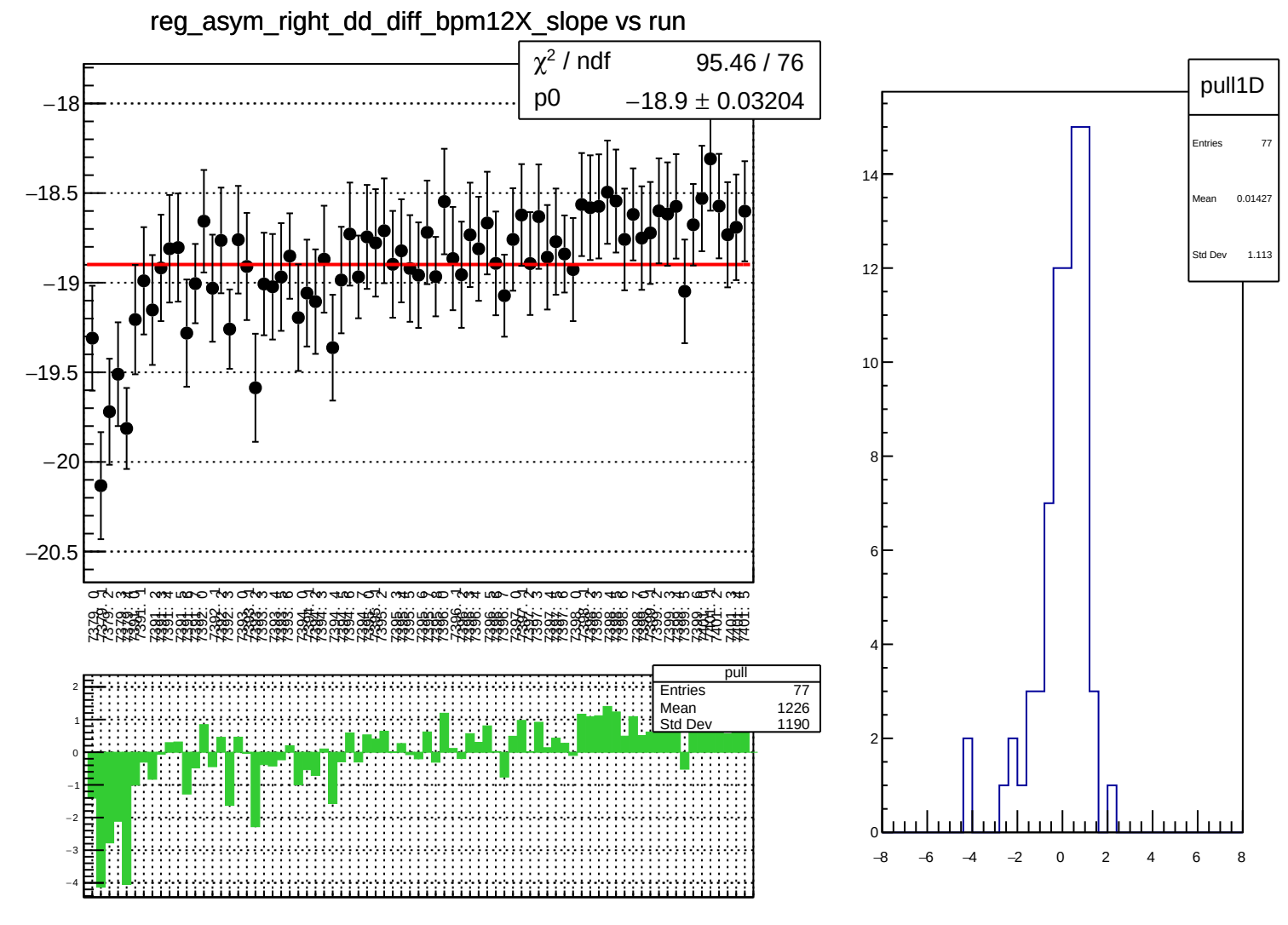

pull1D
Entries 77
Mean −0.02466
Std Dev 0.9484

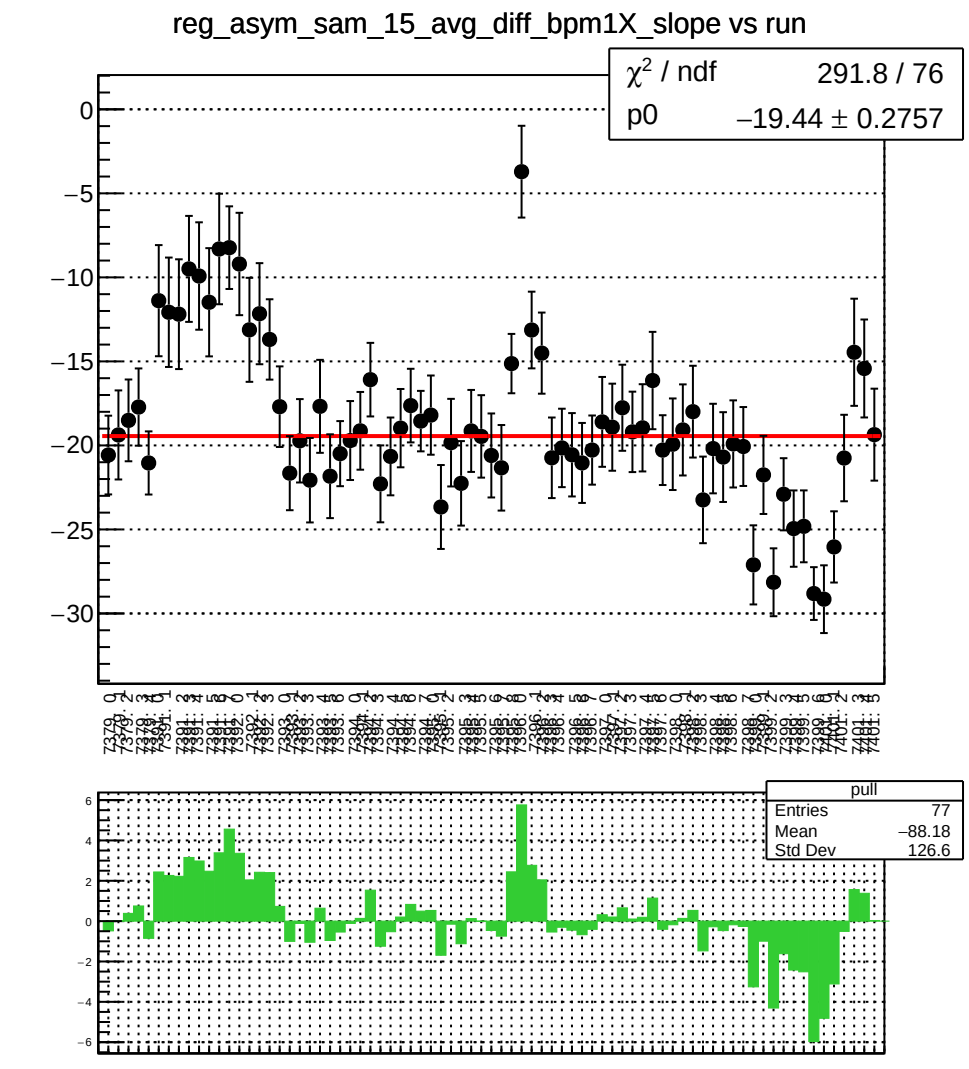

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 167.4 / 76
p0 39.48 ± 0.6545
pull
Entries 77
Mean −80.39
Std Dev 116.6

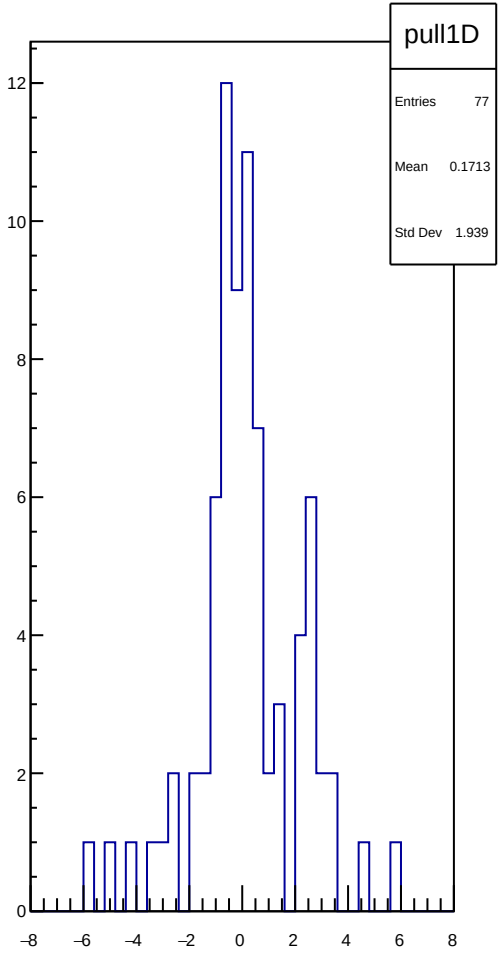

pull1D
Entries 77
Mean 0.1275
Std Dev 1.469

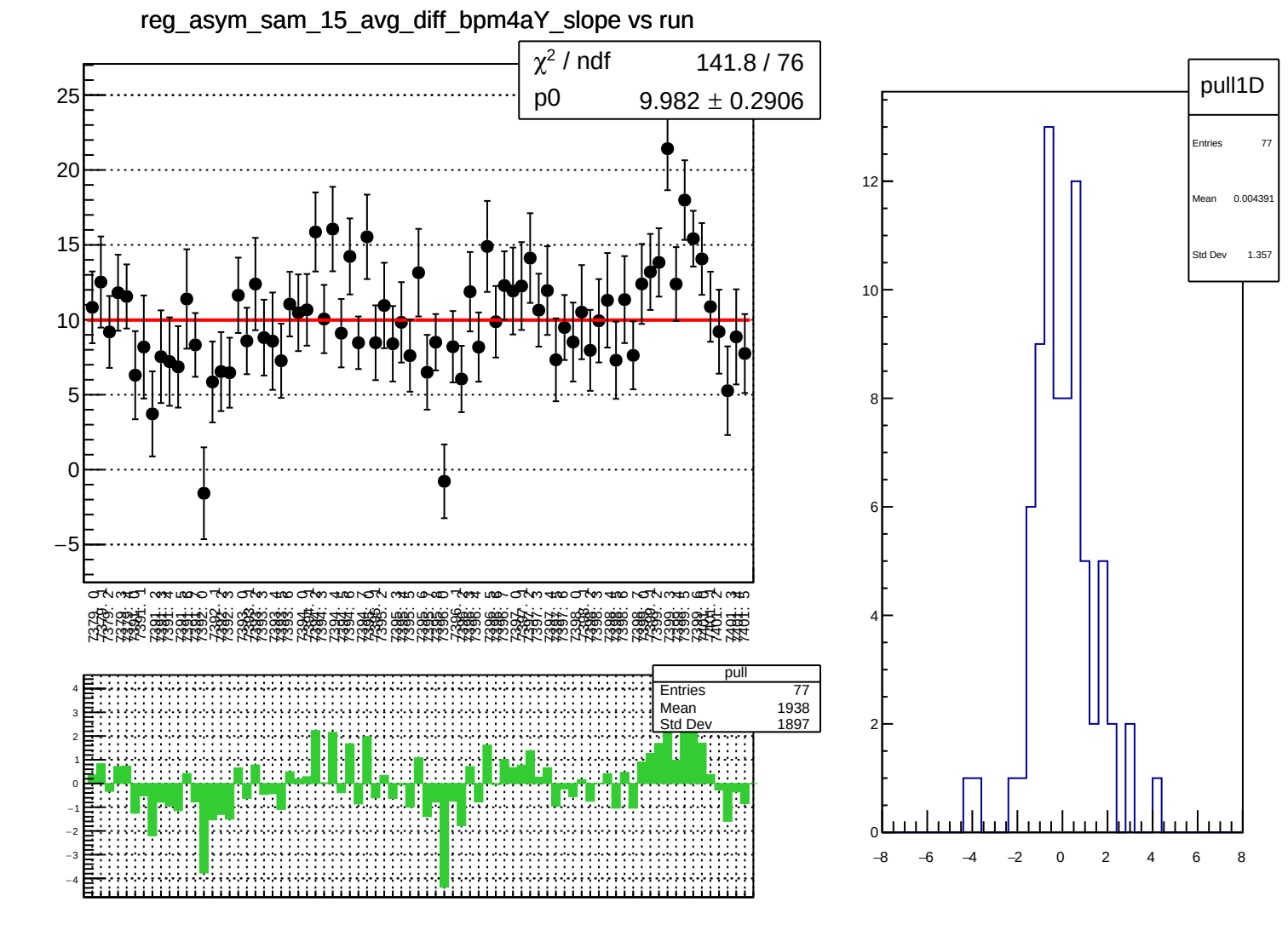

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.82 / 76
p0 15.45 ± 0.7049
pull
Entries 77
Mean 298.5
Std Dev 259.7

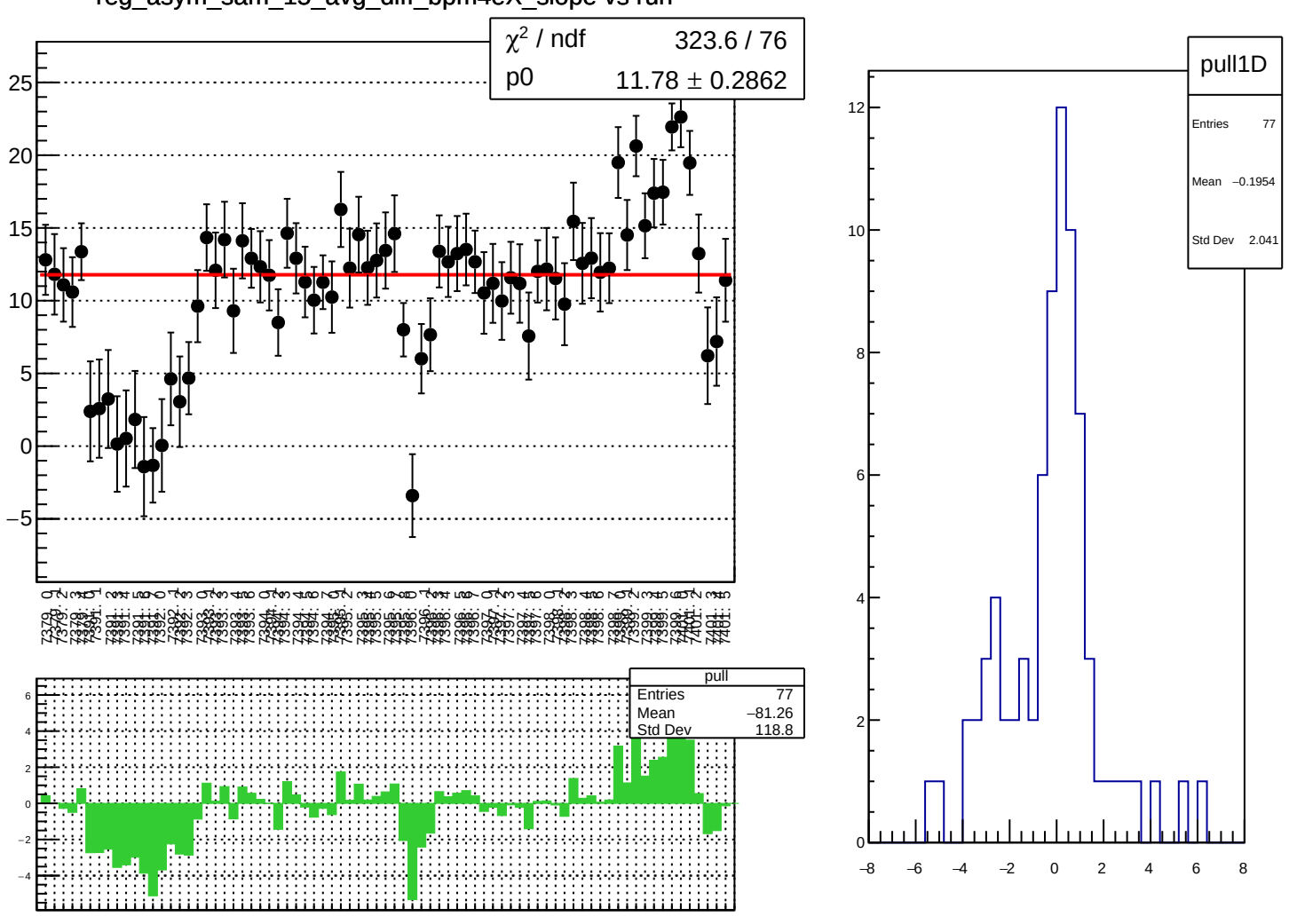

pull1D
Entries 77
Mean 0.0163
Std Dev 0.8886

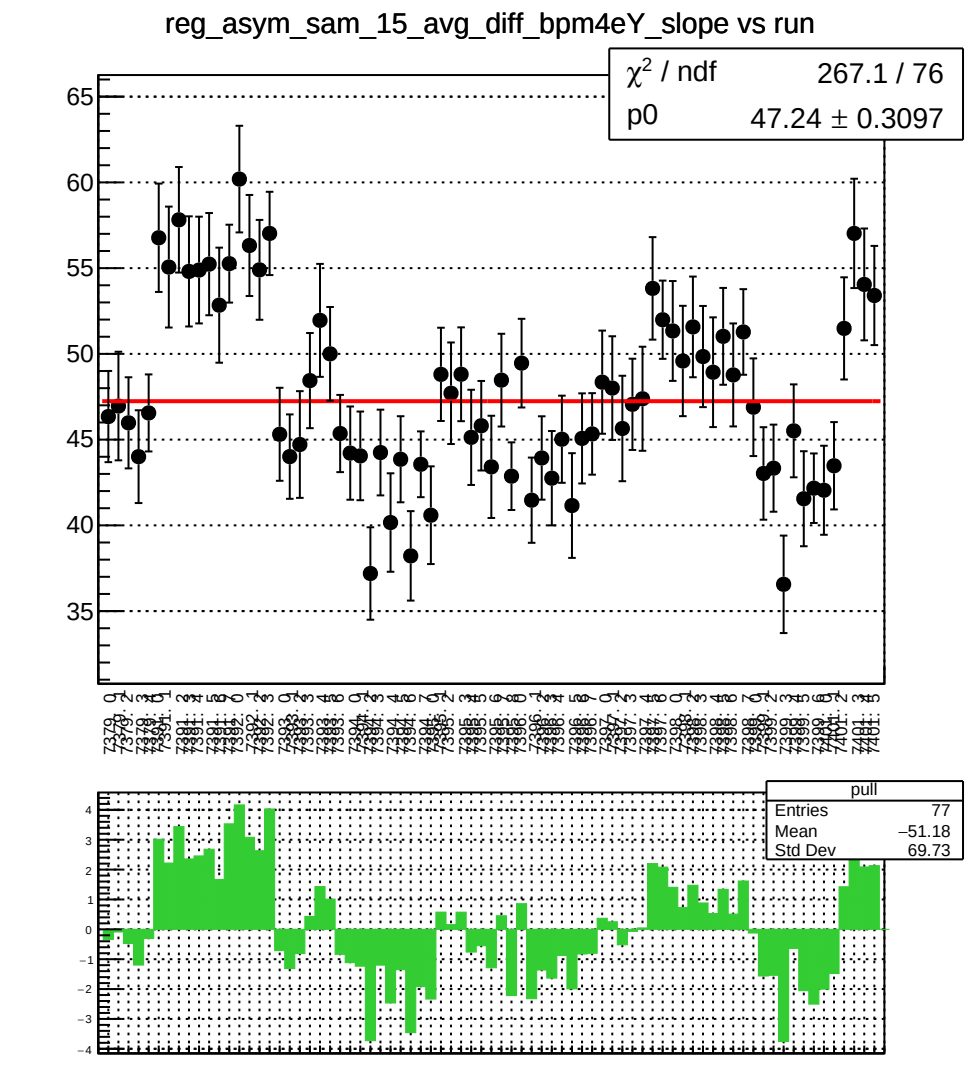

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 95.46 / 76
p0 −18.9 ± 0.03204
−18
−18.5
−19
−19.5
−20
−20.5
pull
Entries 77
Mean 1226
Std Dev 1190
pull1D
Entries 77
Mean 0.01427
Std Dev 1.113

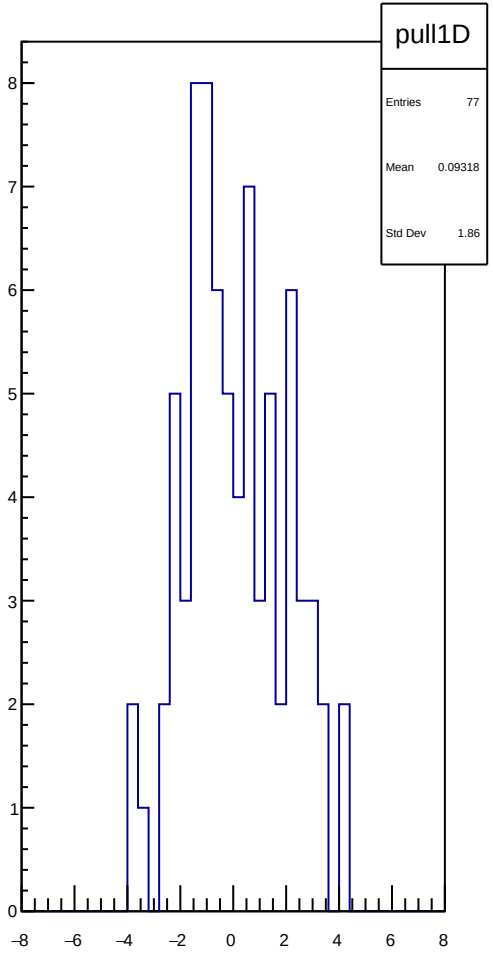

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 291.8 / 76
p0 −19.44 ± 0.2757
pull
Entries 77
Mean −88.18
Std Dev 126.6

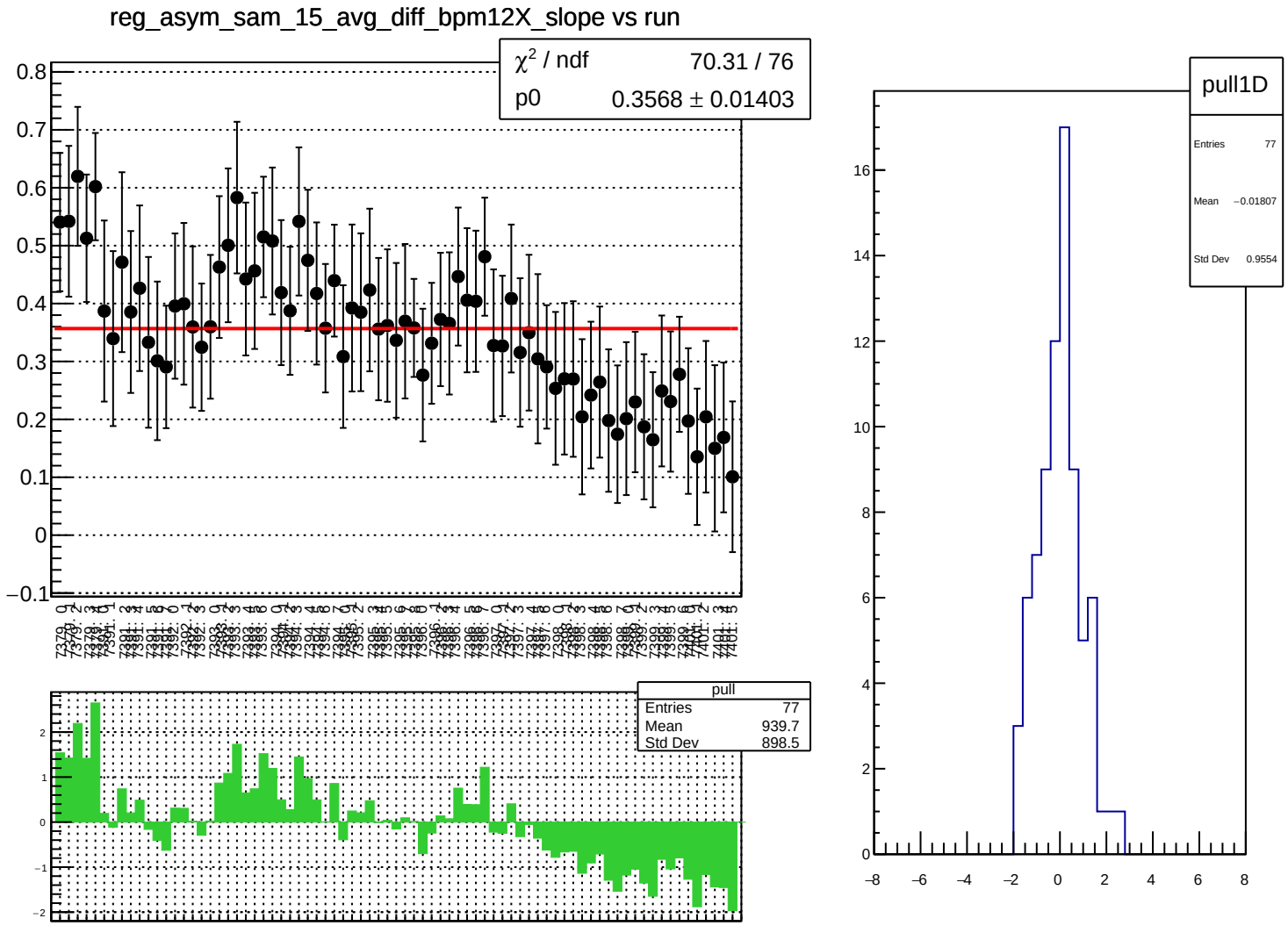

pull1D
Entries 77
Mean 0.1713
Std Dev 1.939

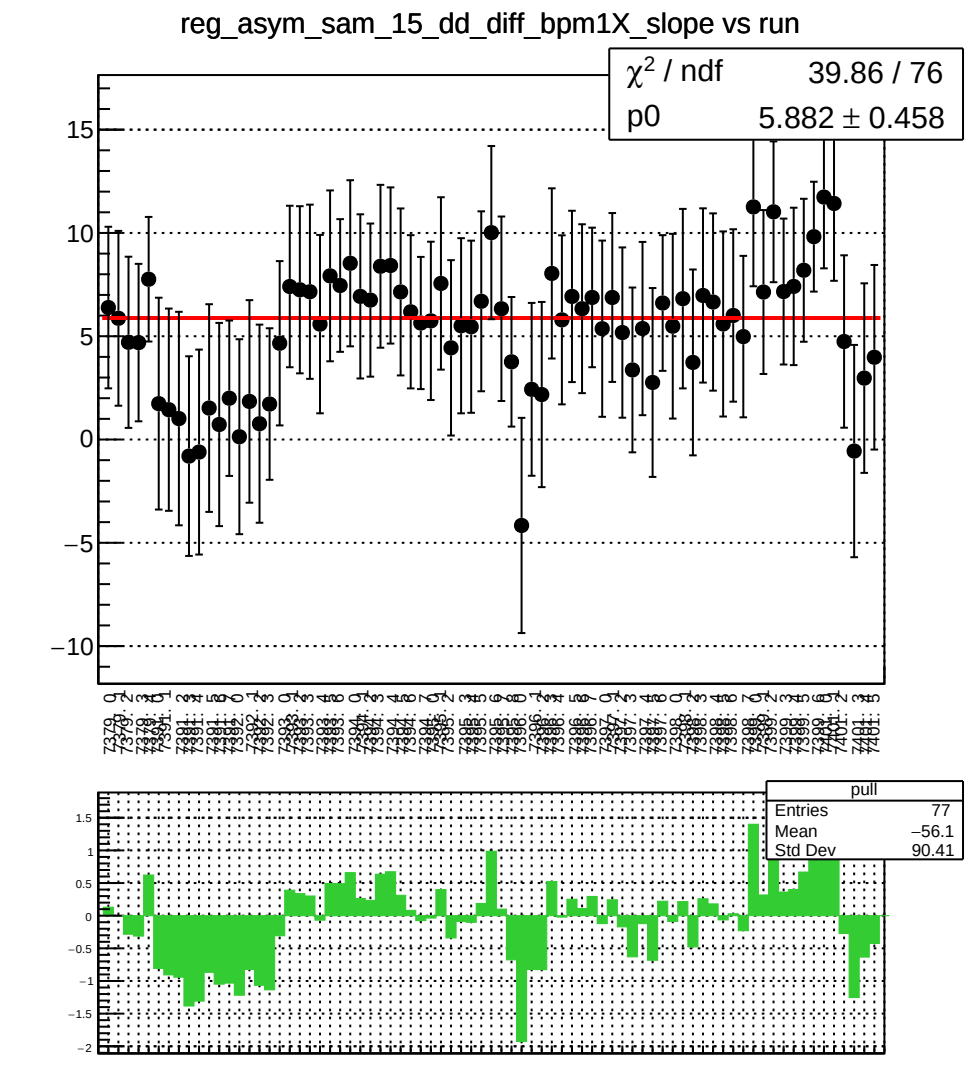

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 141.8 / 76
p0 9.982 ± 0.2906
pull
Entries 77
Mean 1938
Std Dev 1897
pull1D
Entries 77
Mean 0.004391
Std Dev 1.357

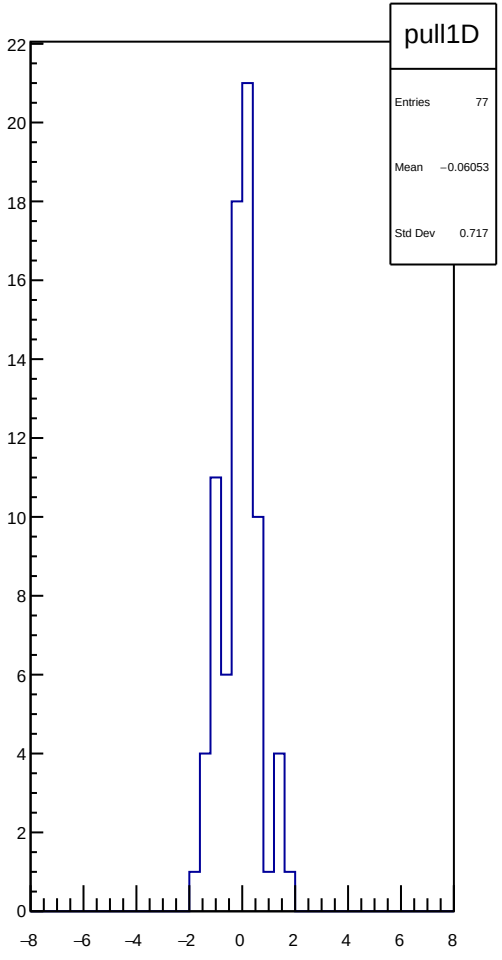

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 323.6 / 76
p0 11.78 ± 0.2862
pull
Entries 77
Mean −81.26
Std Dev 118.8
pull1D
Entries 77
Mean −0.1954
Std Dev 2.041

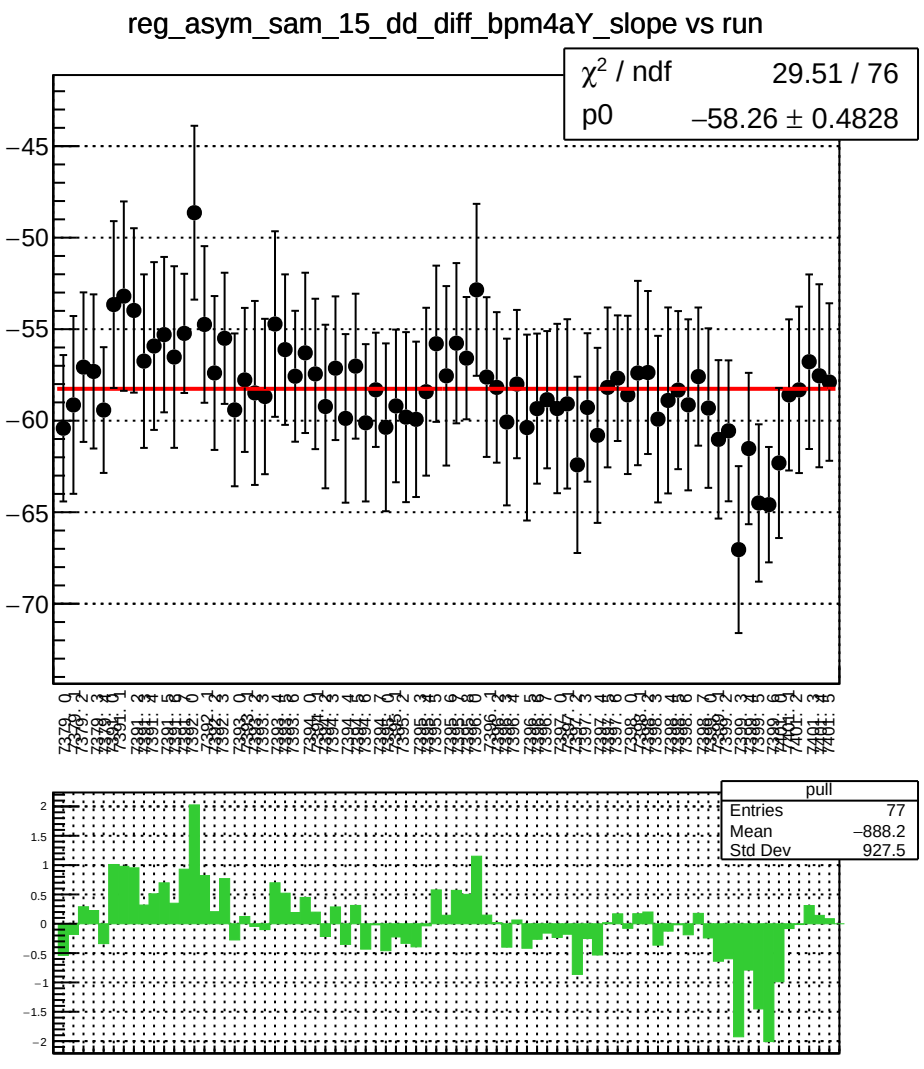

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 267.1 / 76
p0 47.24 ± 0.3097
pull
Entries 77
Mean −51.18
Std Dev 69.73

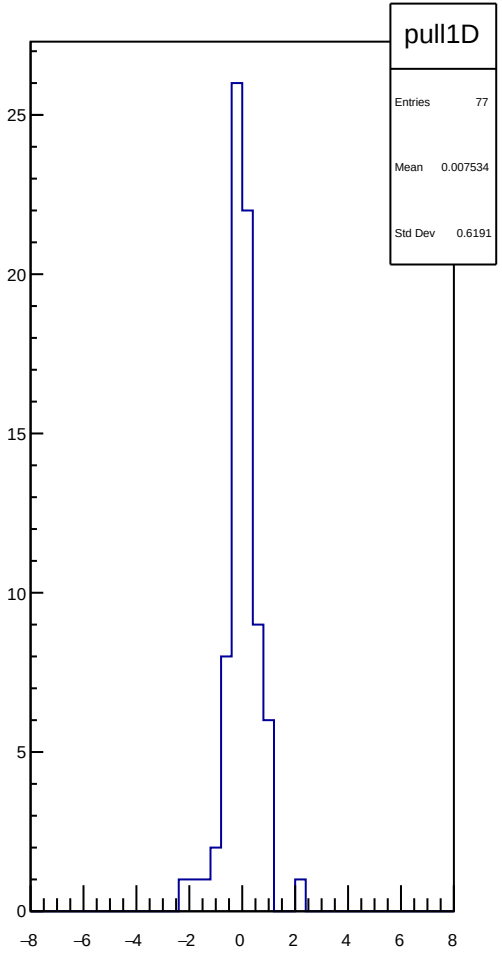

pull1D
Entries 77
Mean 0.09318
Std Dev 1.86

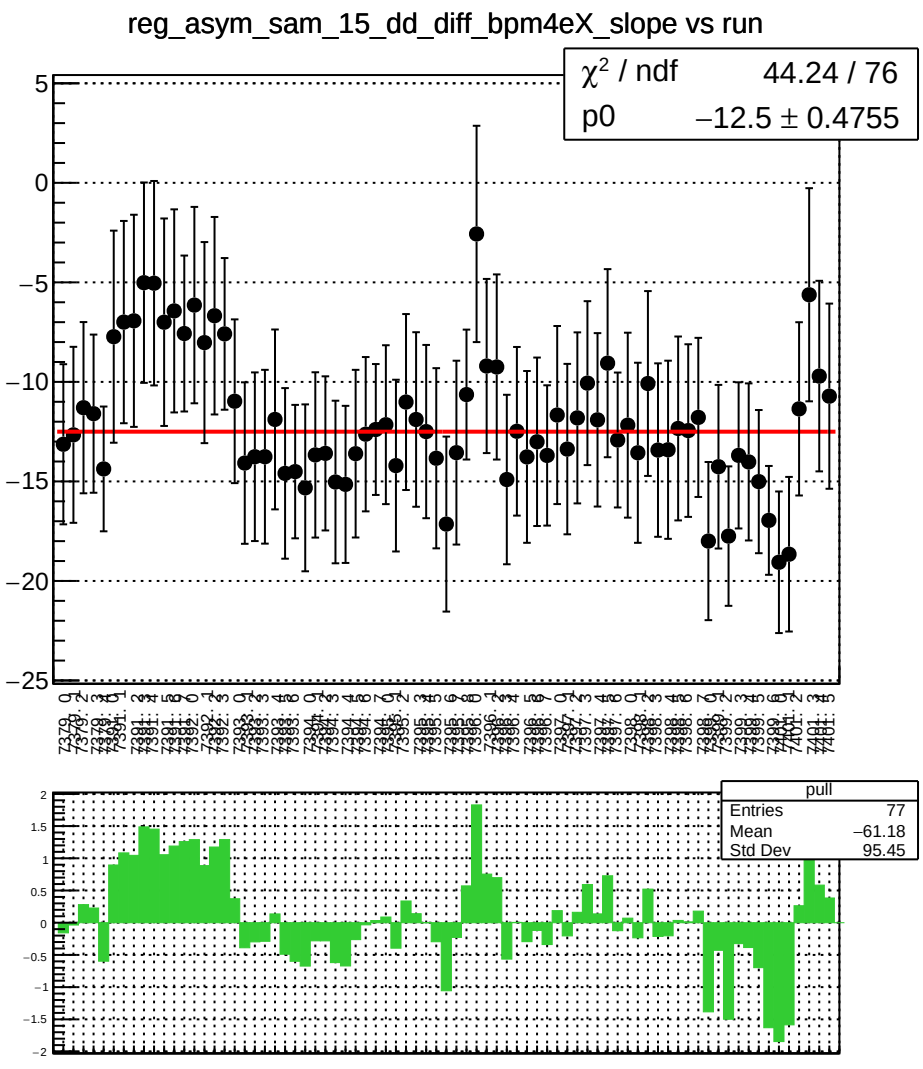

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 70.31 / 76
p0 0.3568 ± 0.01403
pull
Entries 77
Mean 939.7
Std Dev 898.5
pull1D
Entries 77
Mean −0.01807
Std Dev 0.9554

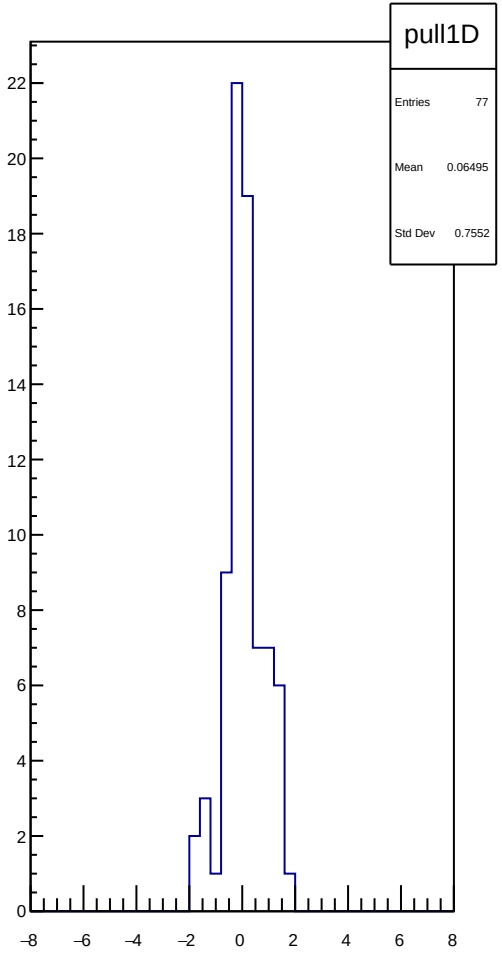

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 39.86 / 76
p0 5.882 ± 0.458
pull
Entries 77
Mean −56.1
Std Dev 90.41

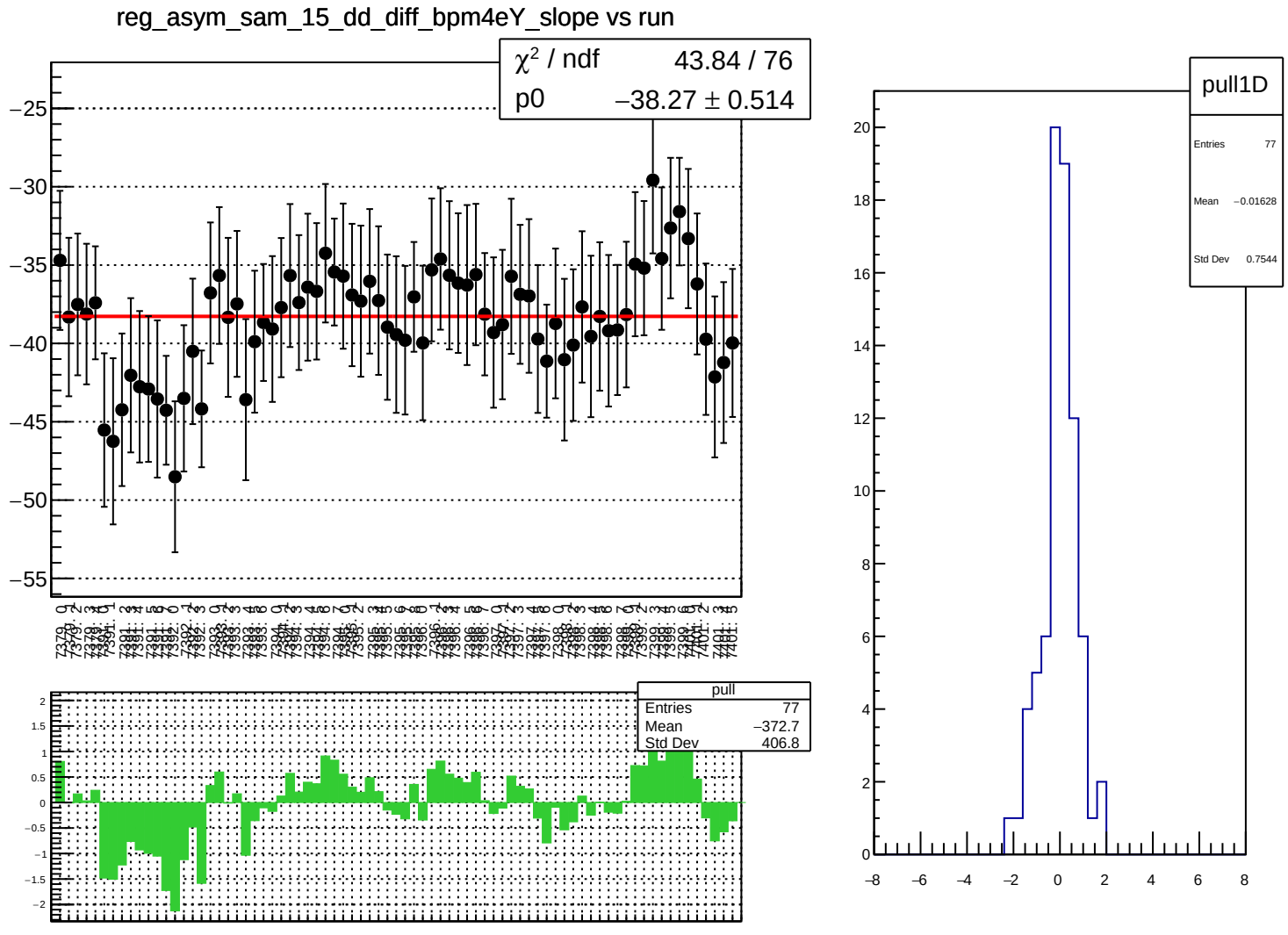

pull1D
Entries 77
Mean −0.06053
Std Dev 0.717

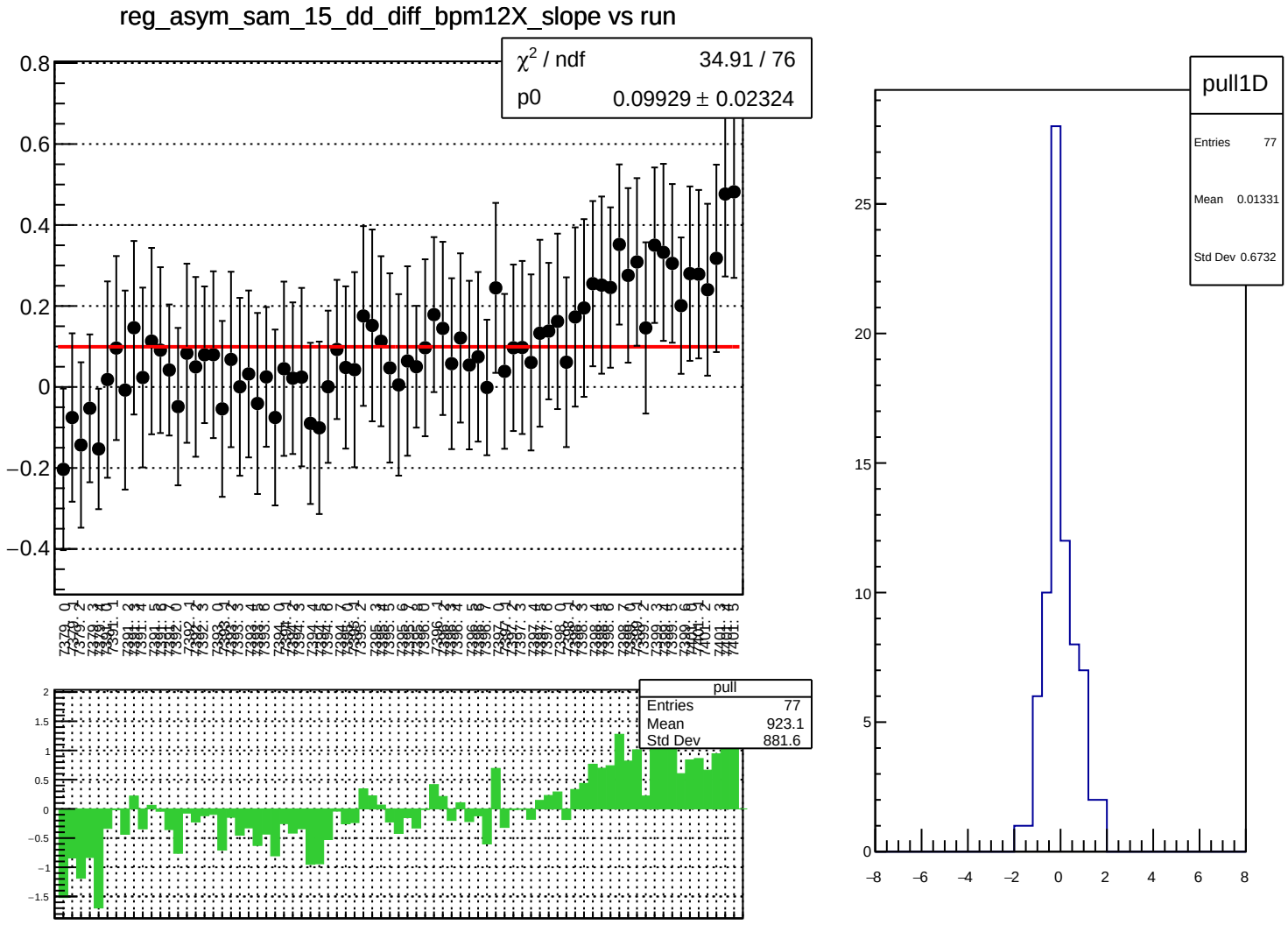

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.51 / 76
p0 −58.26 ± 0.4828
pull
Entries 77
Mean −888.2
Std Dev 927.5

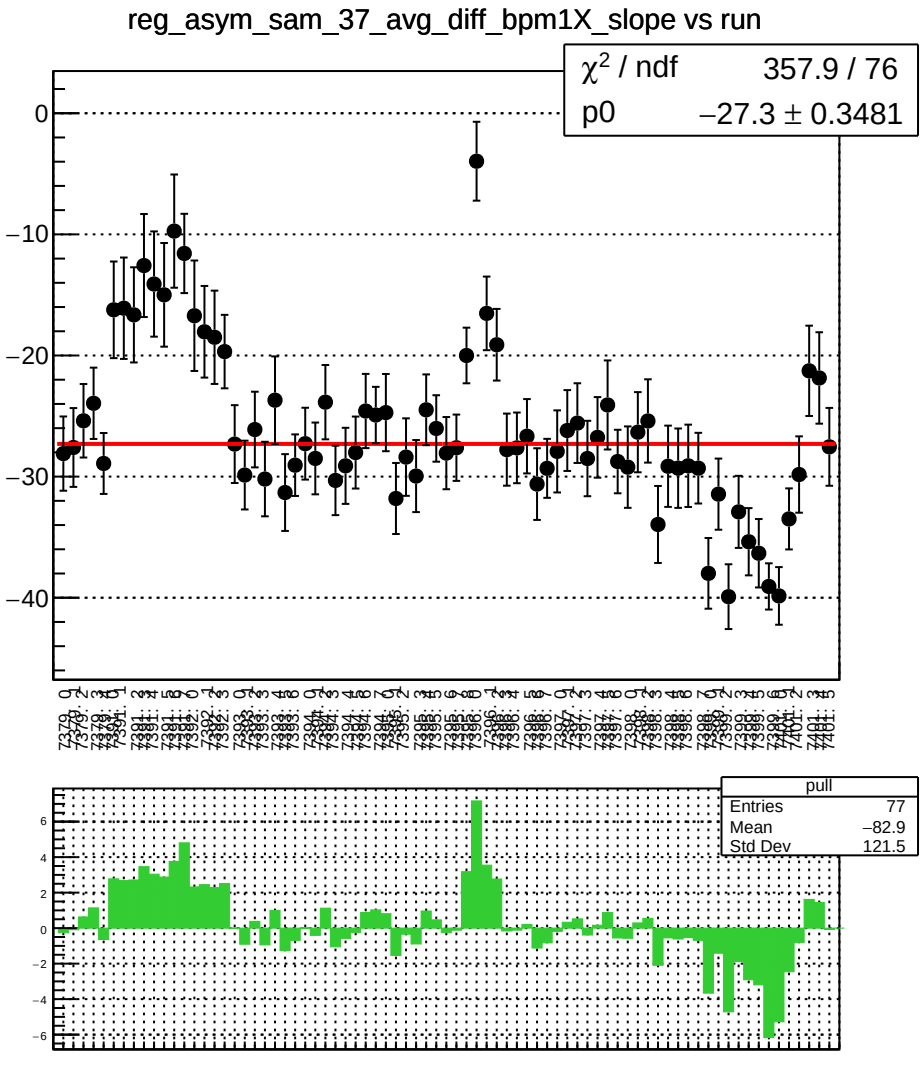

pull1D
Entries 77
Mean 0.007534
Std Dev 0.6191

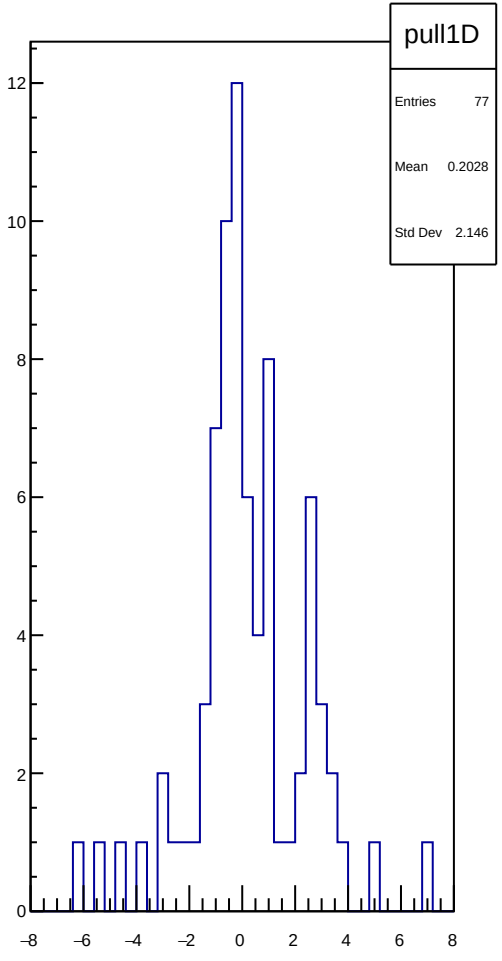

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.24 / 76
p0 −12.5 ± 0.4755
pull
Entries 77
Mean −61.18
Std Dev 95.45

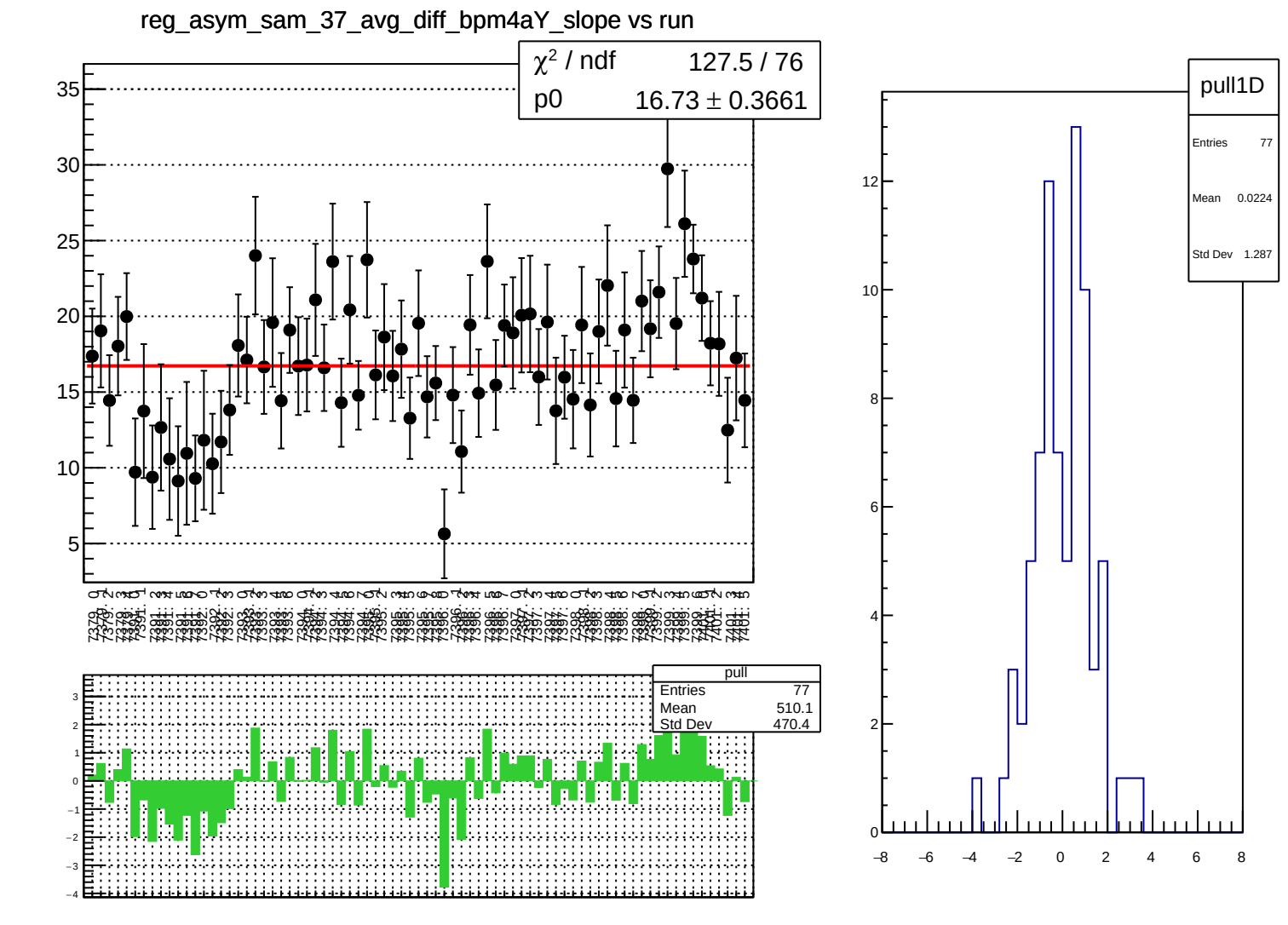

pull1D
Entries 77
Mean 0.06495
Std Dev 0.7552

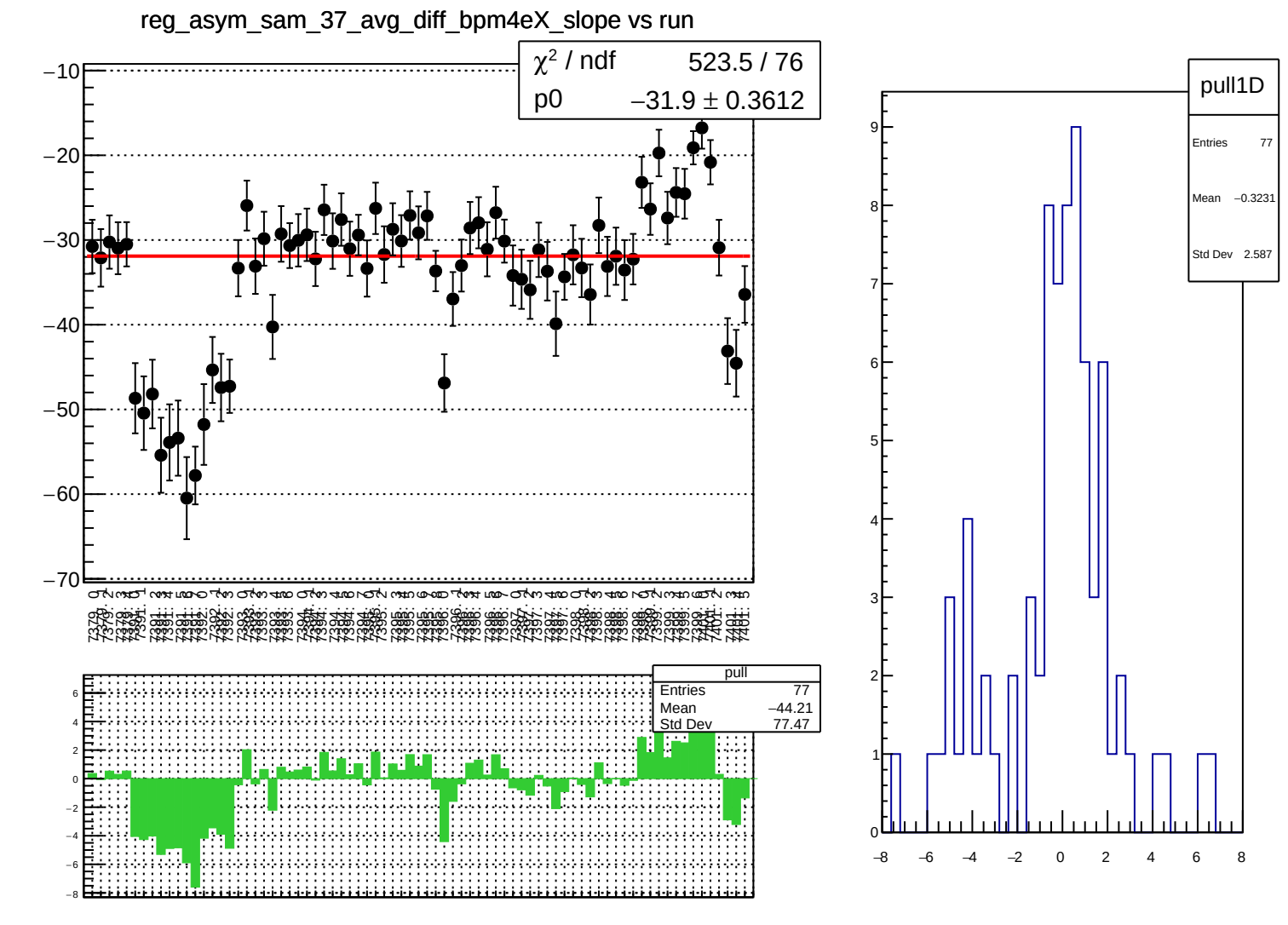

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.84 / 76
p0 −38.27 ± 0.514
pull
Entries 77
Mean −372.7
Std Dev 406.8
pull1D
Entries 77
Mean −0.01628
Std Dev 0.7544

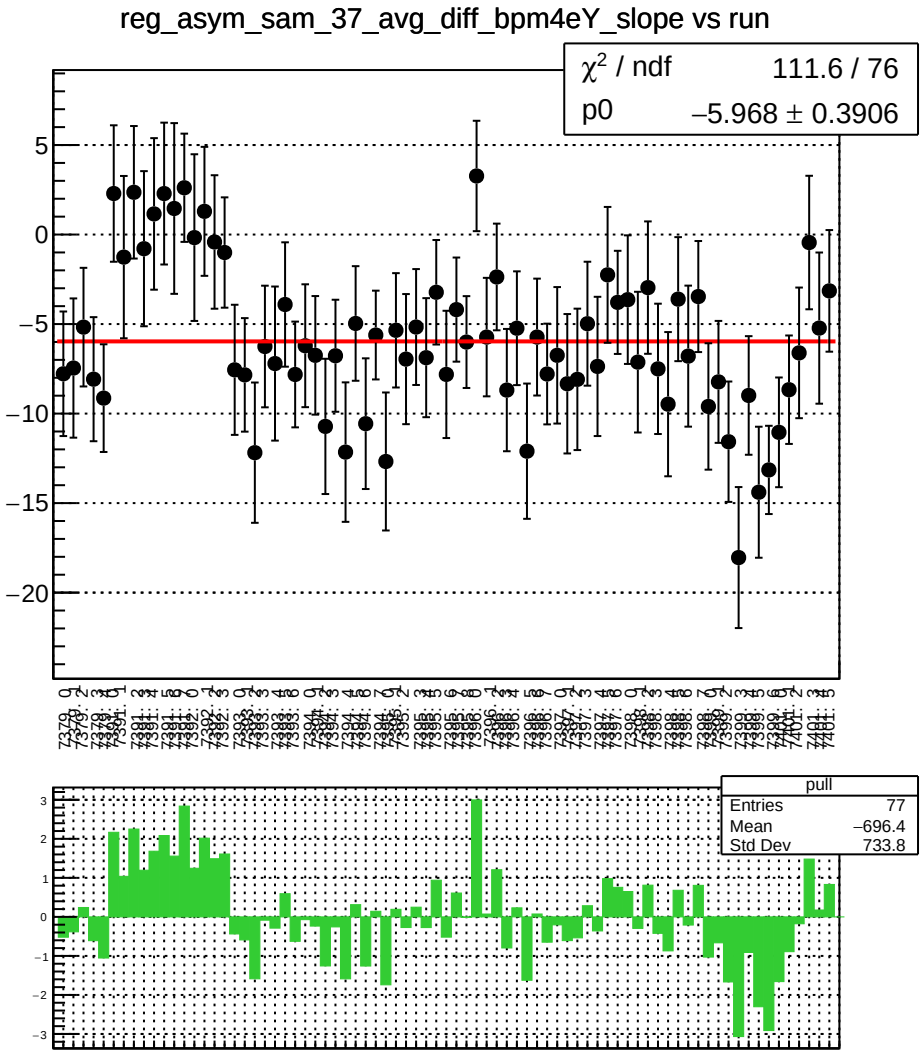

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 34.91 / 76
p0 0.09929 ± 0.02324
pull
Entries 77
Mean 923.1
Std Dev 881.6
pull1D
Entries 77
Mean 0.01331
Std Dev 0.6732

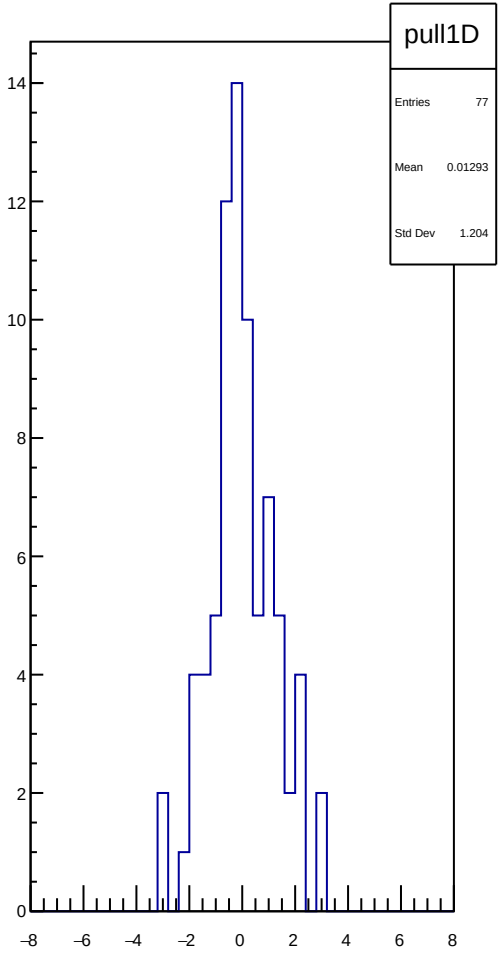

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 357.9 / 76
p0 −27.3 ± 0.3481
pull
Entries 77
Mean −82.9
Std Dev 121.5

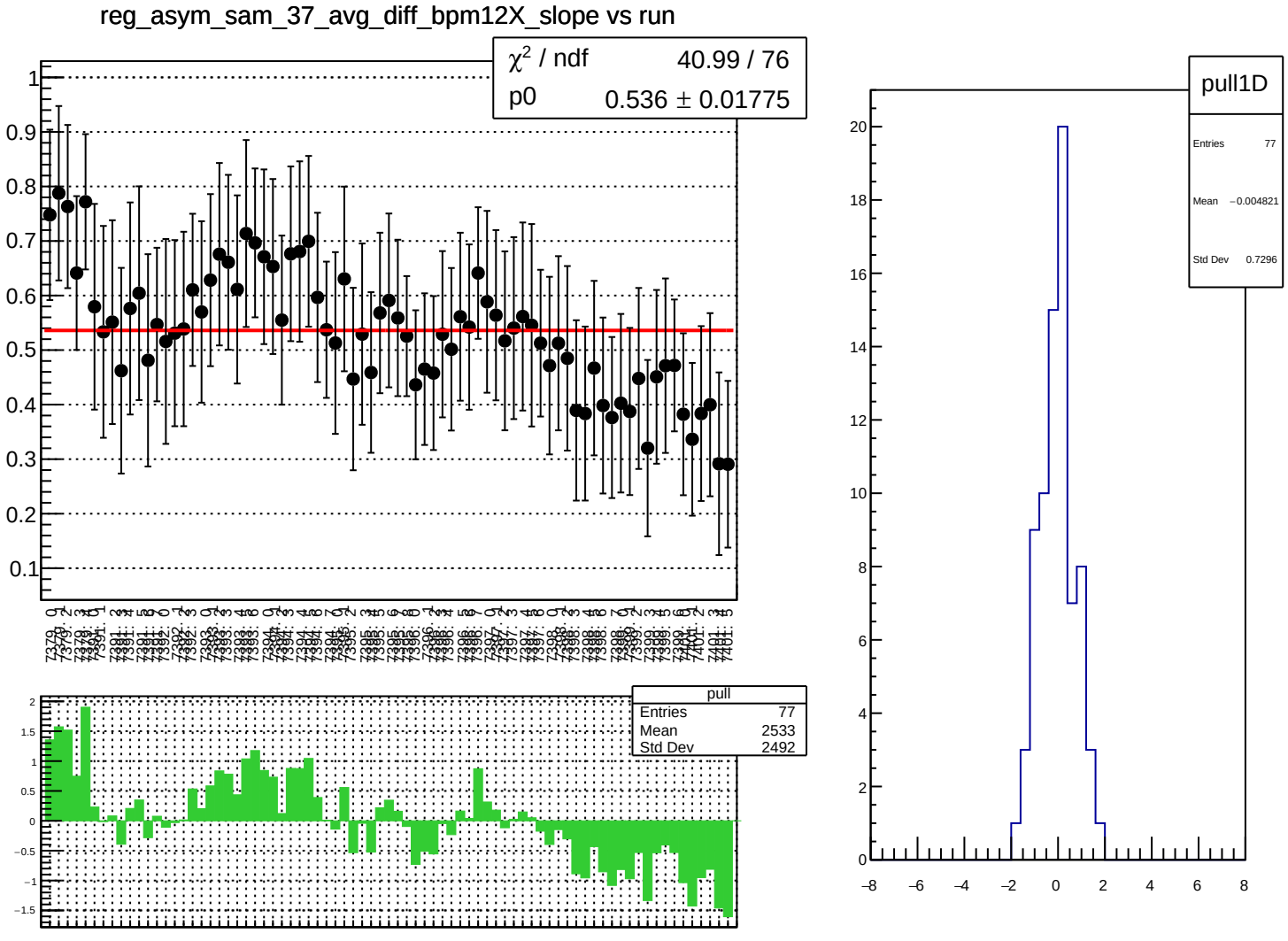

pull1D
Entries 77
Mean 0.2028
Std Dev 2.146

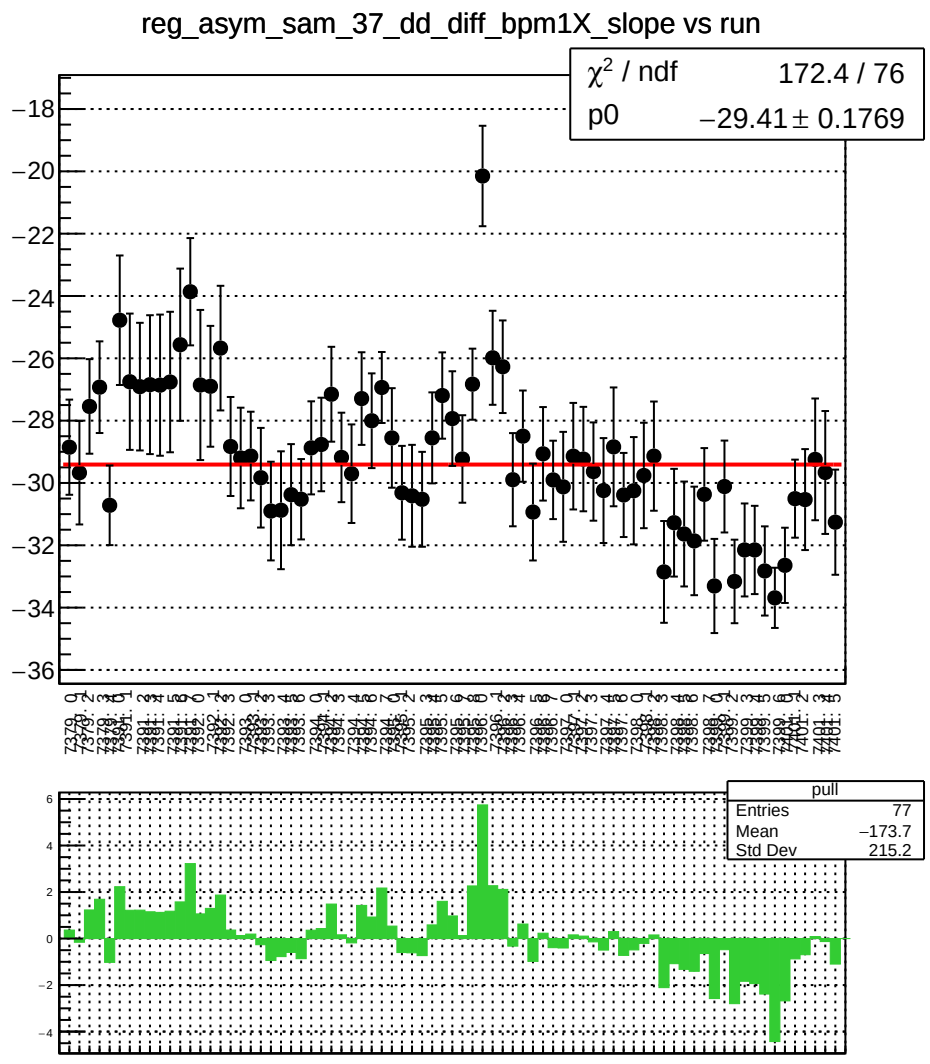

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 127.5 / 76
p0 16.73 ± 0.3661
pull
Entries 77
Mean 510.1
Std Dev 470.4
pull1D
Entries 77
Mean 0.0224
Std Dev 1.287

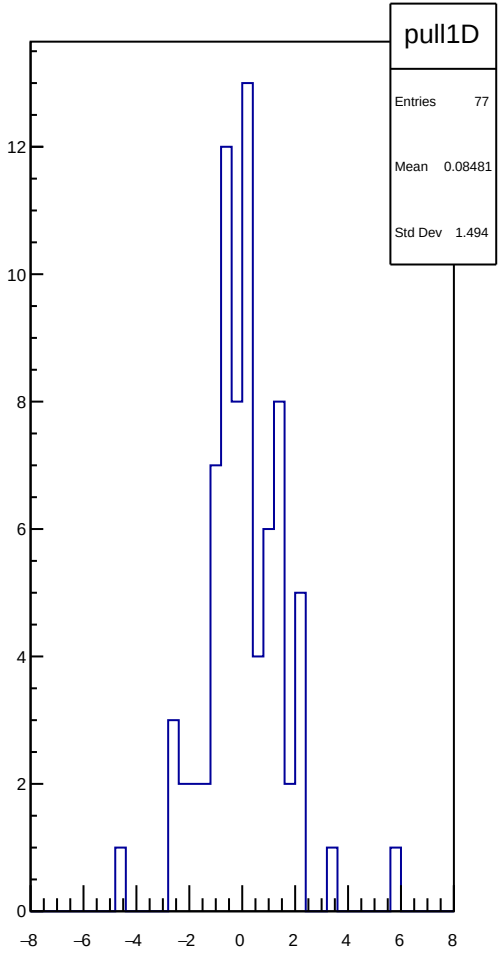

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 523.5 / 76
p0 −31.9 ± 0.3612
pull
Entries 77
Mean −44.21
Std Dev 77.47
pull1D
Entries 77
Mean −0.3231
Std Dev 2.587

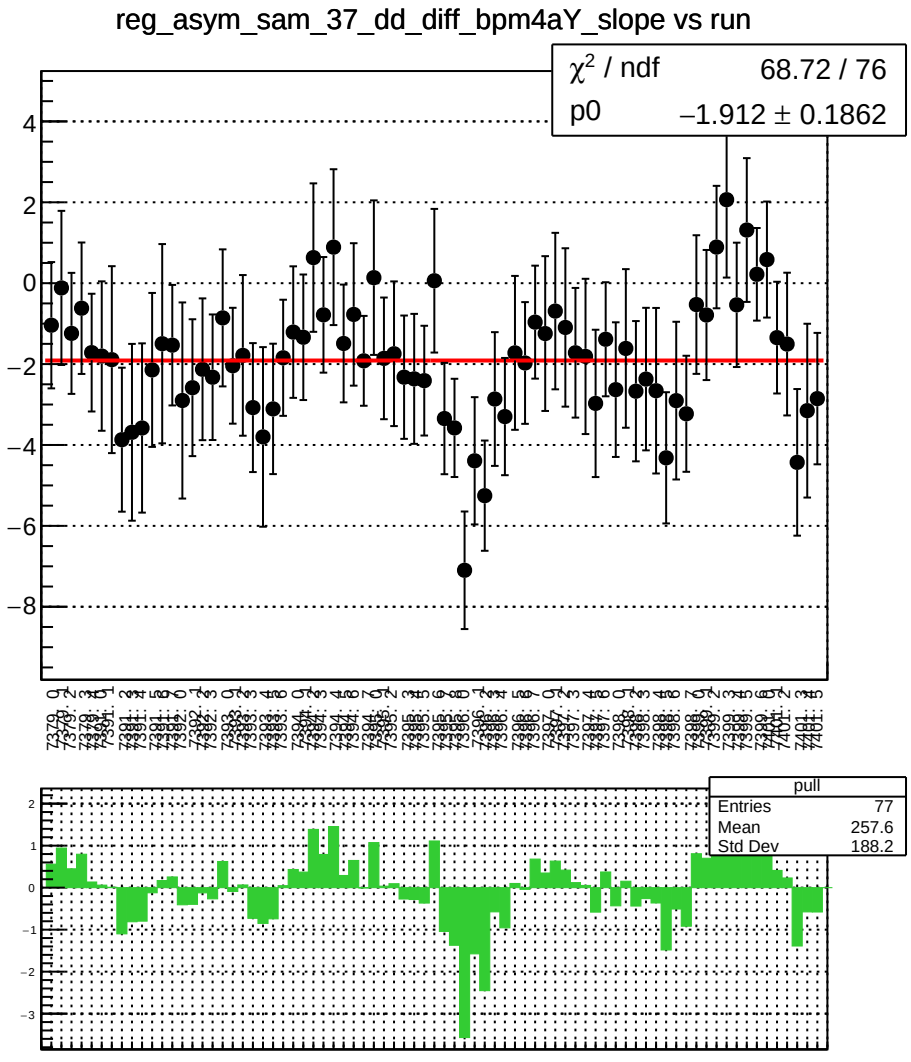

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 111.6 / 76
p0 −5.968 ± 0.3906
pull
Entries 77
Mean −696.4
Std Dev 733.8

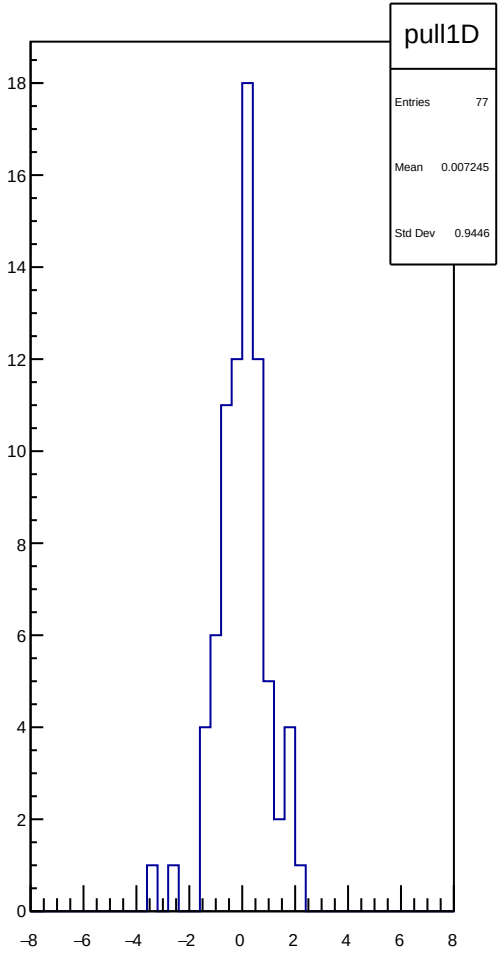

pull1D
Entries 77
Mean 0.01293
Std Dev 1.204

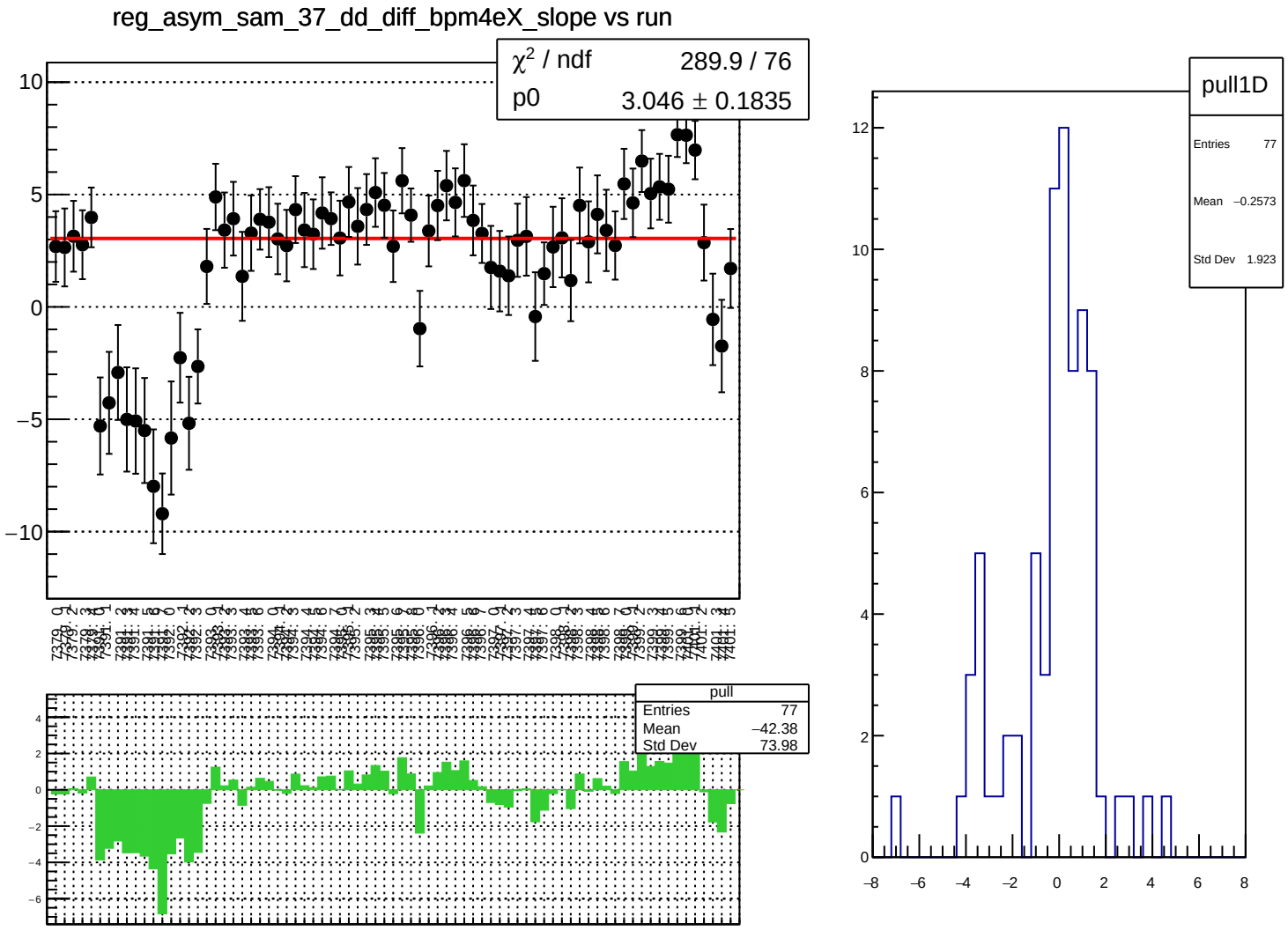

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 40.99 / 76
p0 0.536 ± 0.01775
pull
Entries 77
Mean 2533
Std Dev 2492
pull1D
Entries 77
Mean −0.004821
Std Dev 0.7296

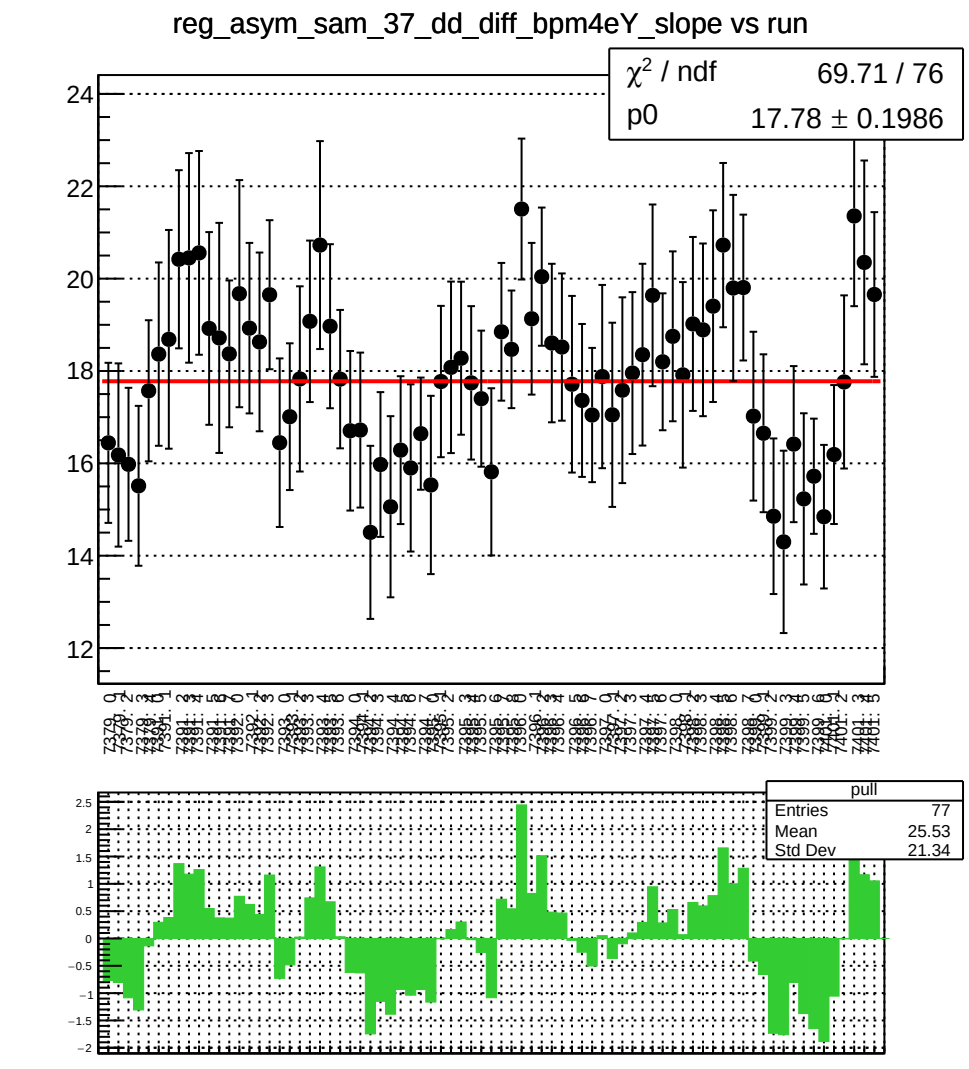

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 172.4 / 76
p0 −29.41 ± 0.1769
pull
Entries 77
Mean −173.7
Std Dev 215.2

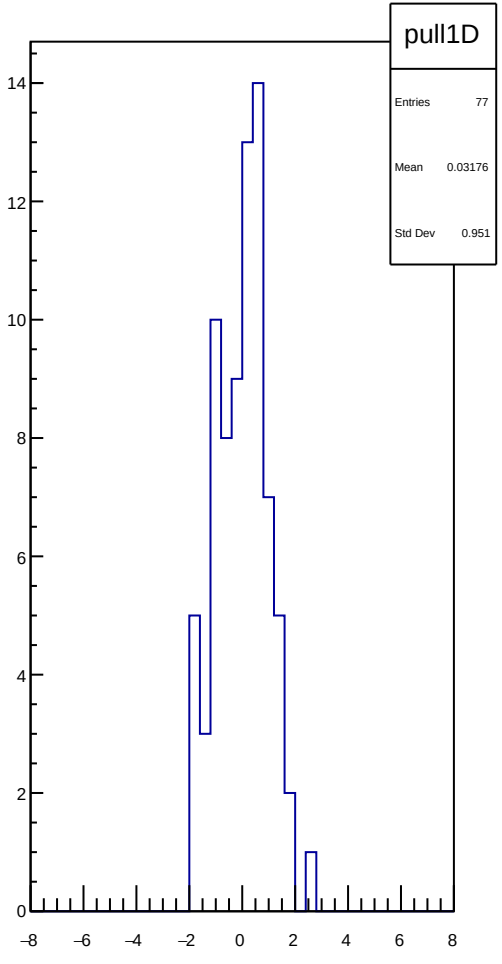

pull1D
Entries 77
Mean 0.08481
Std Dev 1.494

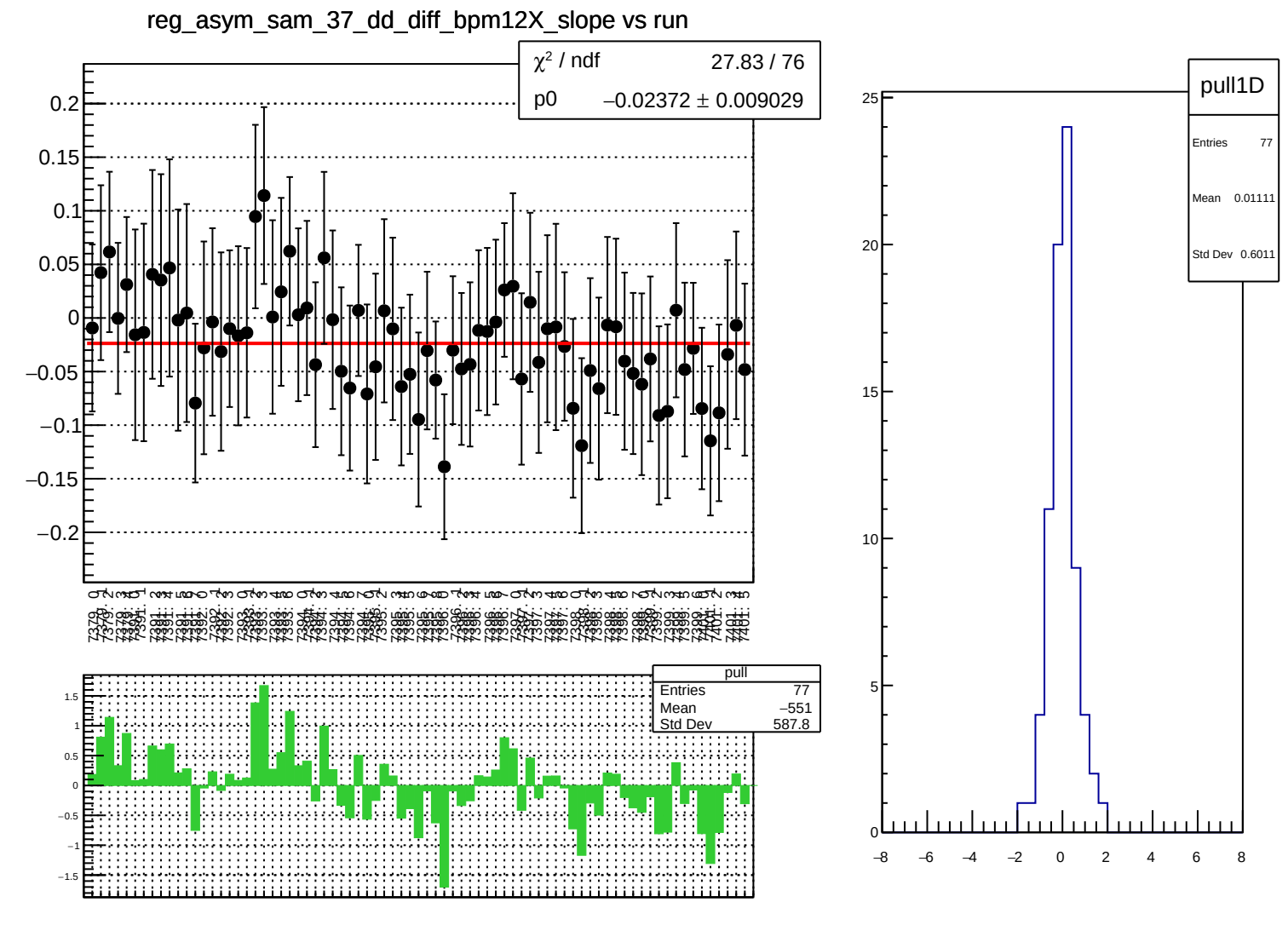

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 68.72 / 76
p0 −1.912 ± 0.1862
pull
Entries 77
Mean 257.6
Std Dev 188.2

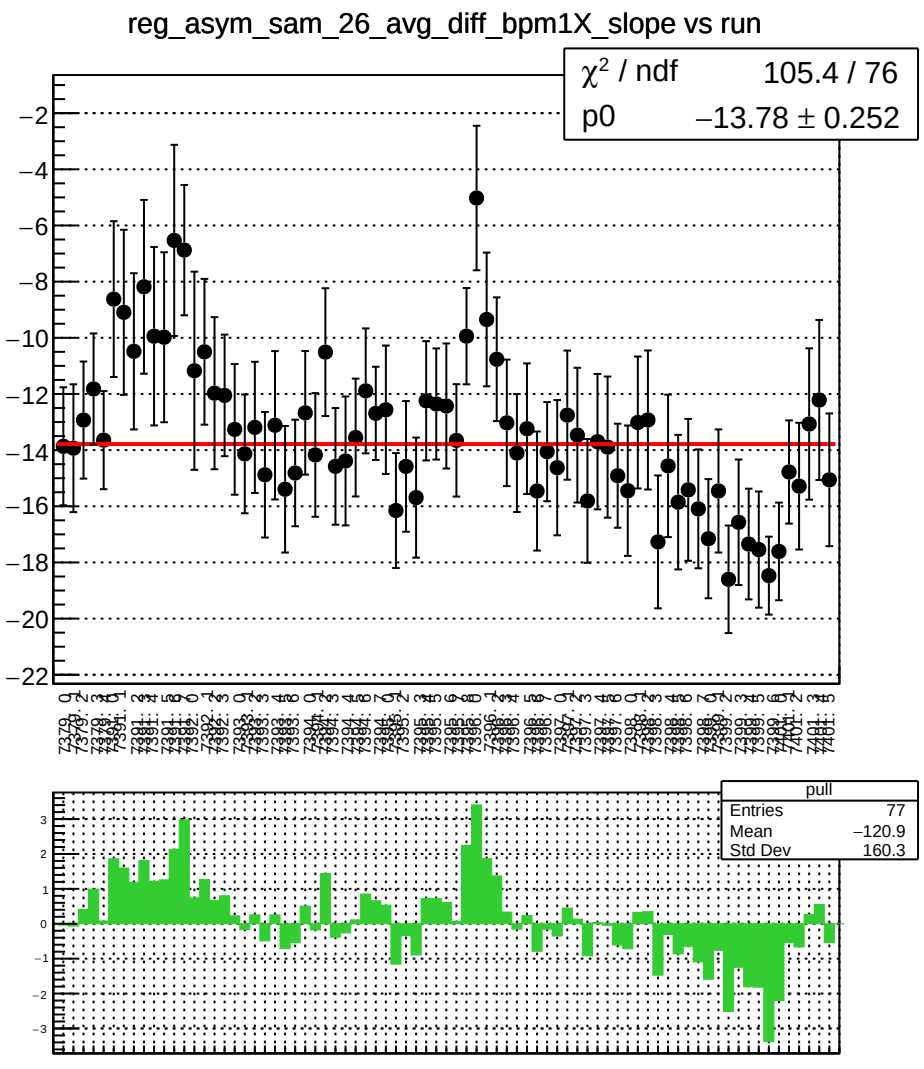

pull1D
Entries 77
Mean 0.007245
Std Dev 0.9446

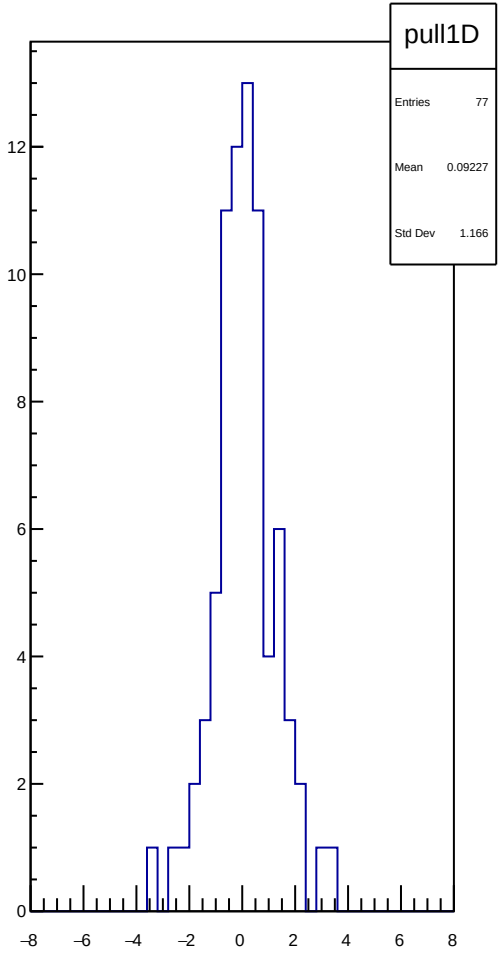

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 289.9 / 76
p0 3.046 ± 0.1835
pull
Entries 77
Mean −42.38
Std Dev 73.98
pull1D
Entries 77
Mean −0.2573
Std Dev 1.923

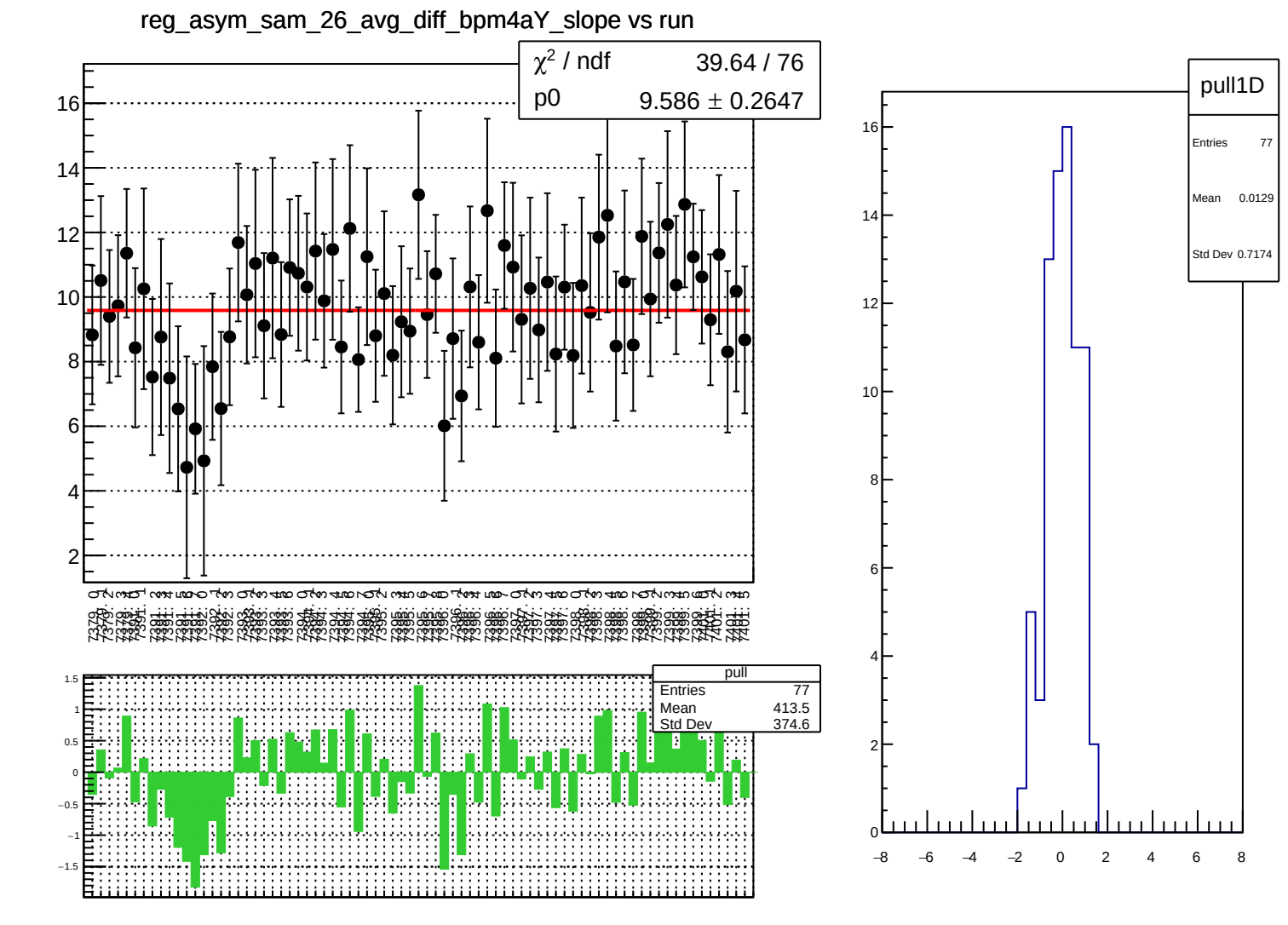

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 69.71 / 76
p0 17.78 ± 0.1986
pull
Entries 77
Mean 25.53
Std Dev 21.34

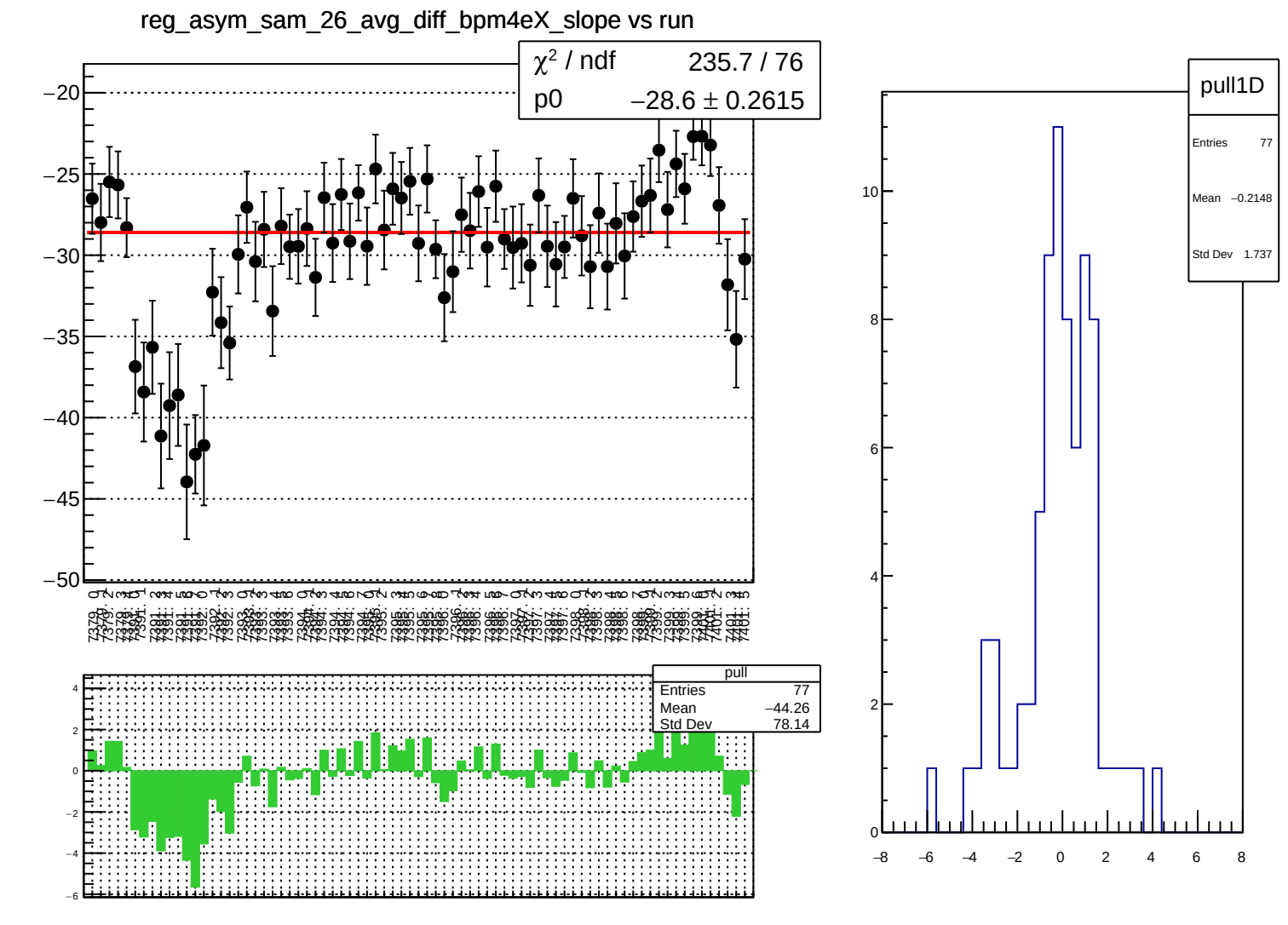

pull1D
Entries 77
Mean 0.03176
Std Dev 0.951

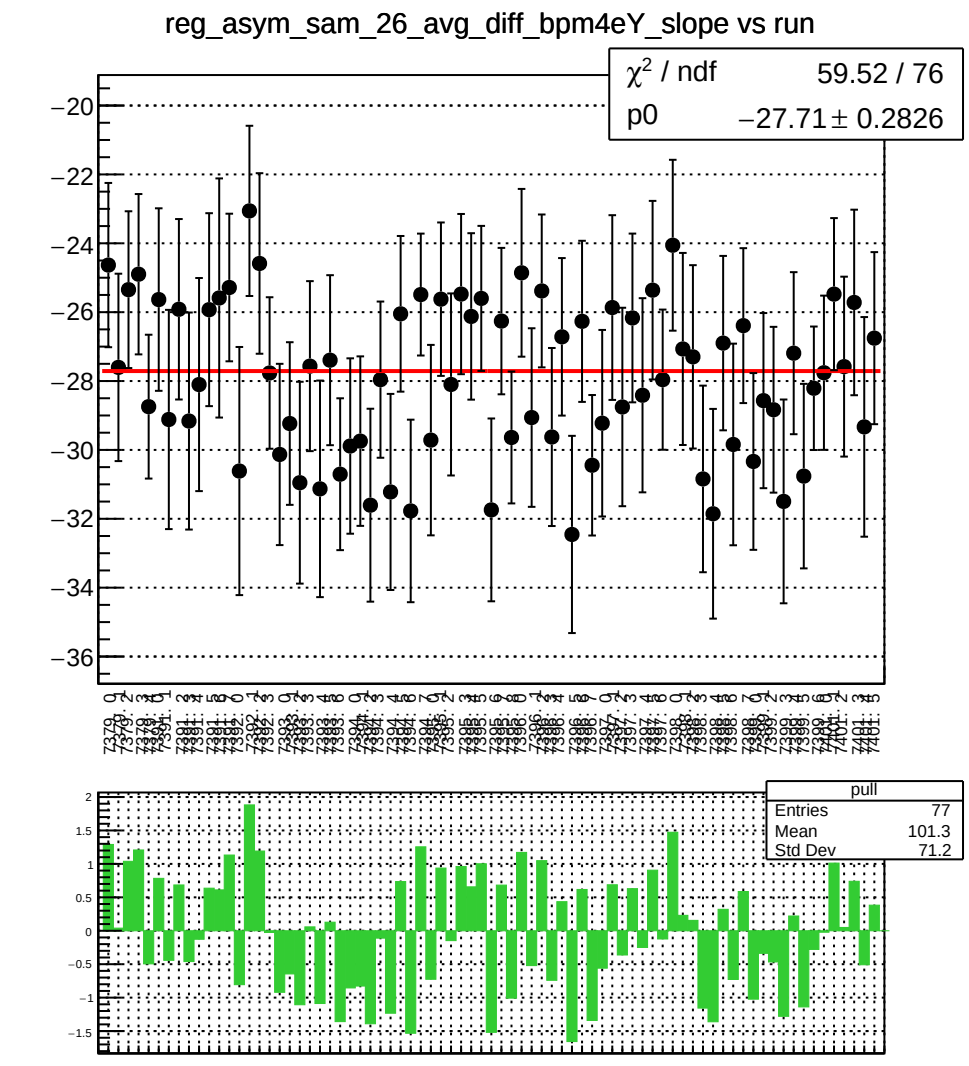

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 27.83 / 76
p0 −0.02372 ± 0.009029
pull
Entries 77
Mean −551
Std Dev 587.8
pull1D
Entries 77
Mean 0.01111
Std Dev 0.6011

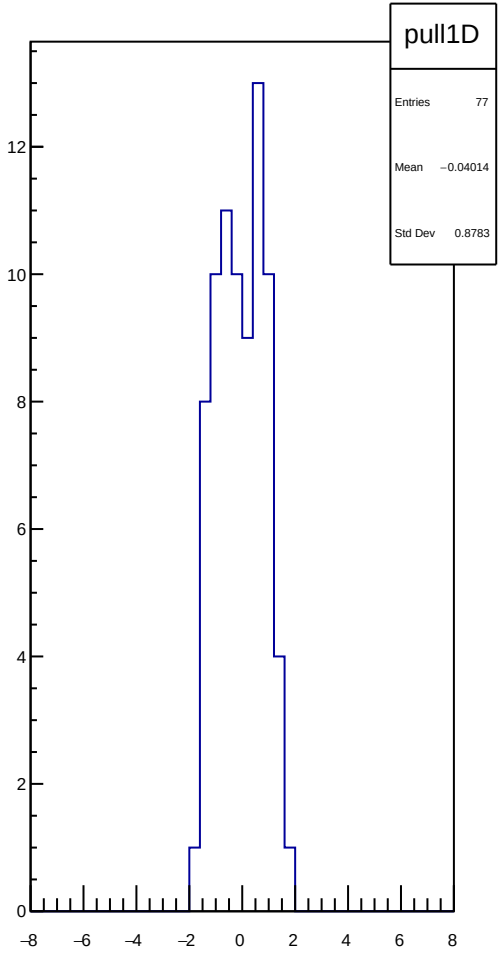

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 105.4 / 76
p0 −13.78 ± 0.252
pull
Entries 77
Mean −120.9
Std Dev 160.3

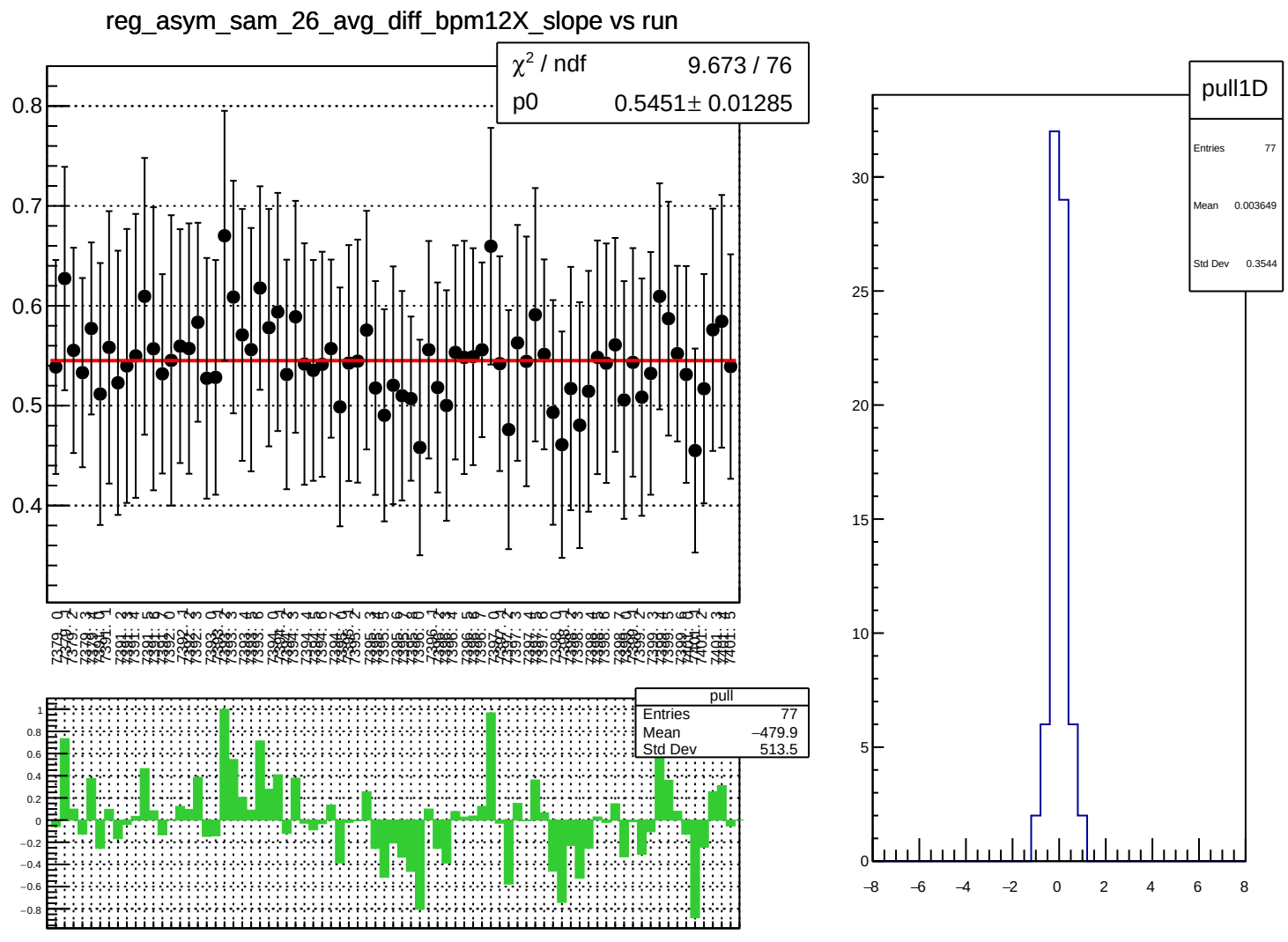

pull1D
Entries 77
Mean 0.09227
Std Dev 1.166

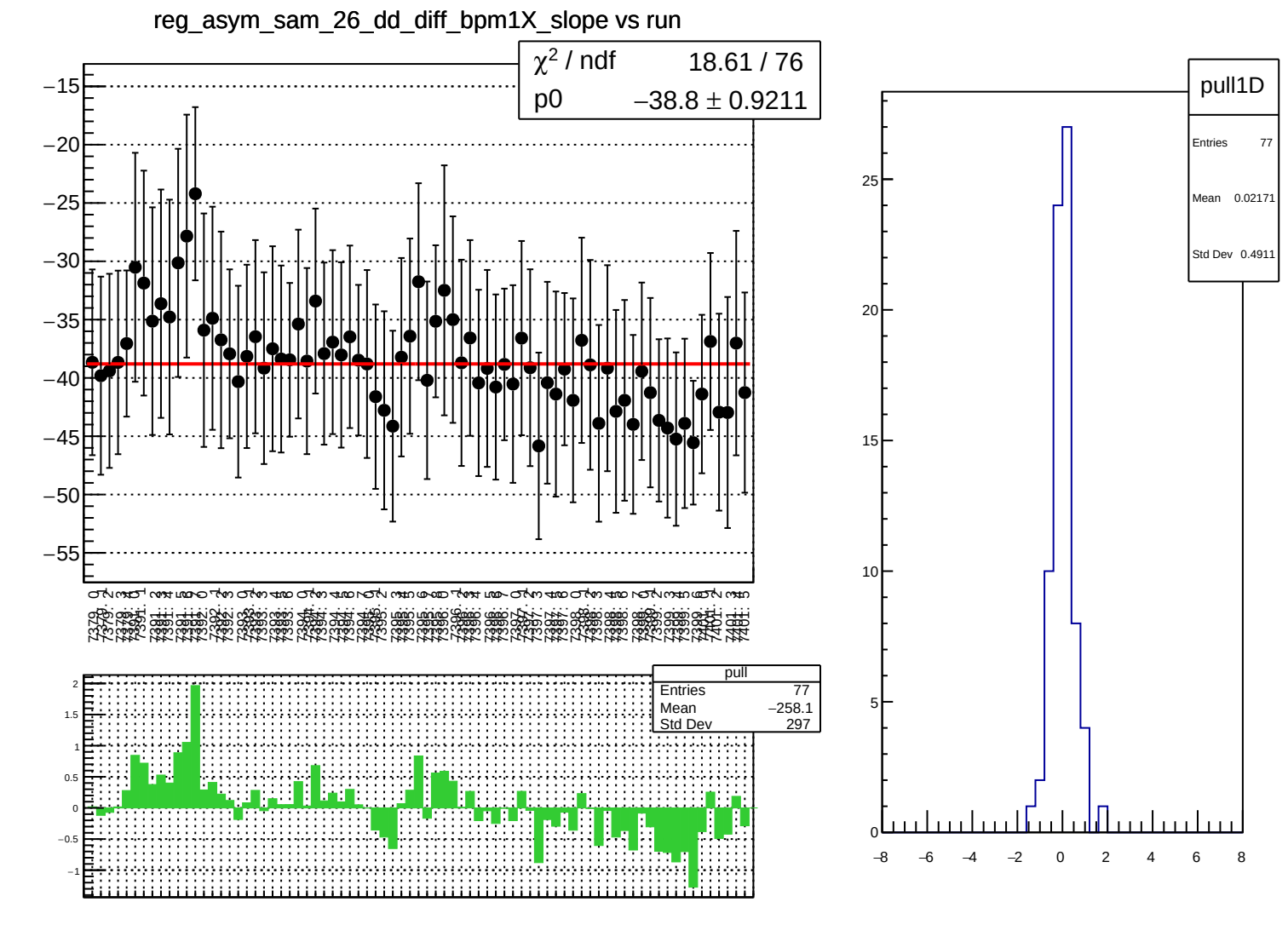

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 39.64 / 76
p0 9.586 ± 0.2647
pull
Entries 77
Mean 413.5
Std Dev 374.6
pull1D
Entries 77
Mean 0.0129
Std Dev 0.7174

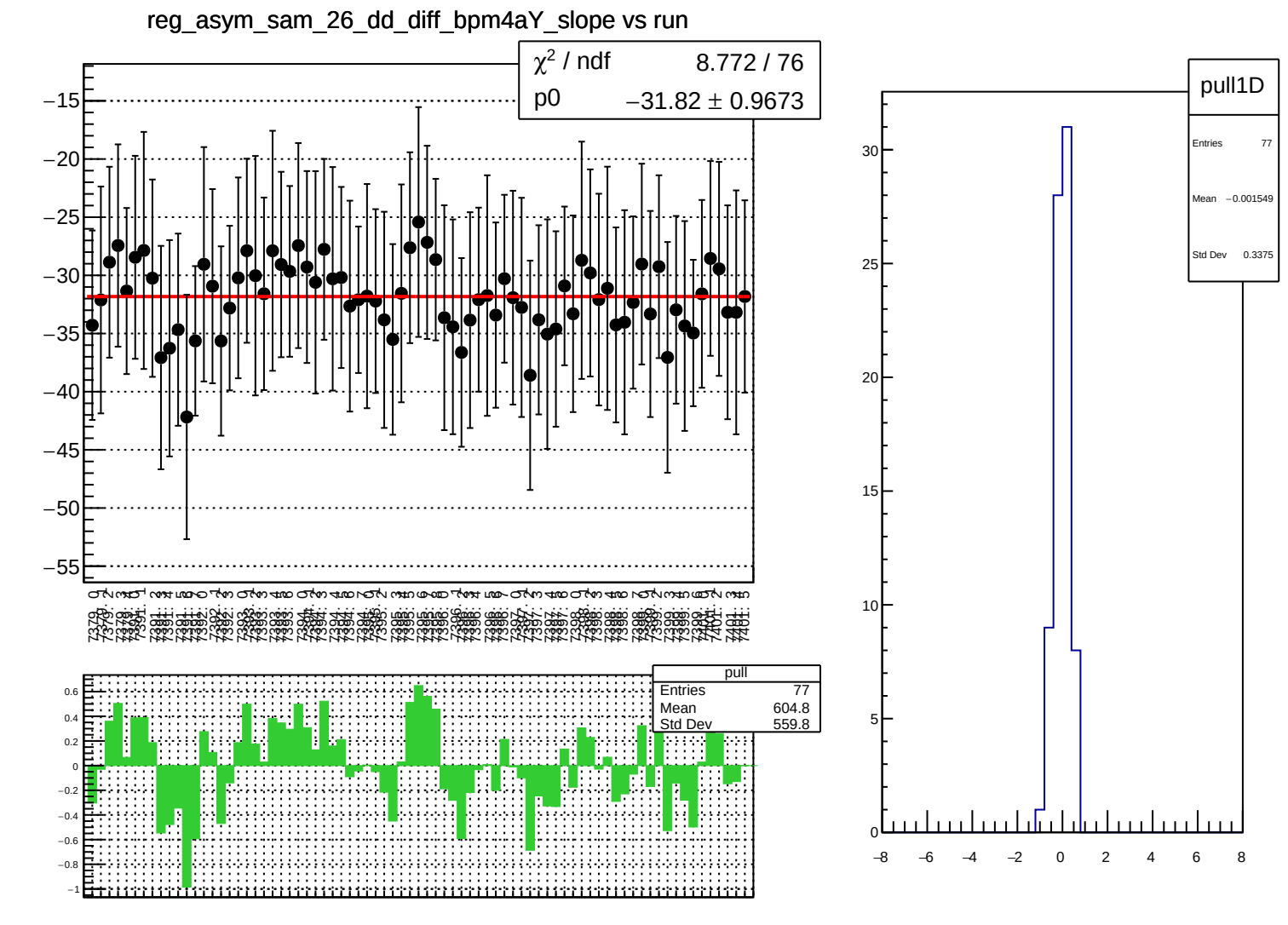

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 235.7 / 76
p0 −28.6 ± 0.2615
pull
Entries 77
Mean −44.26
Std Dev 78.14
pull1D
Entries 77
Mean −0.2148
Std Dev 1.737

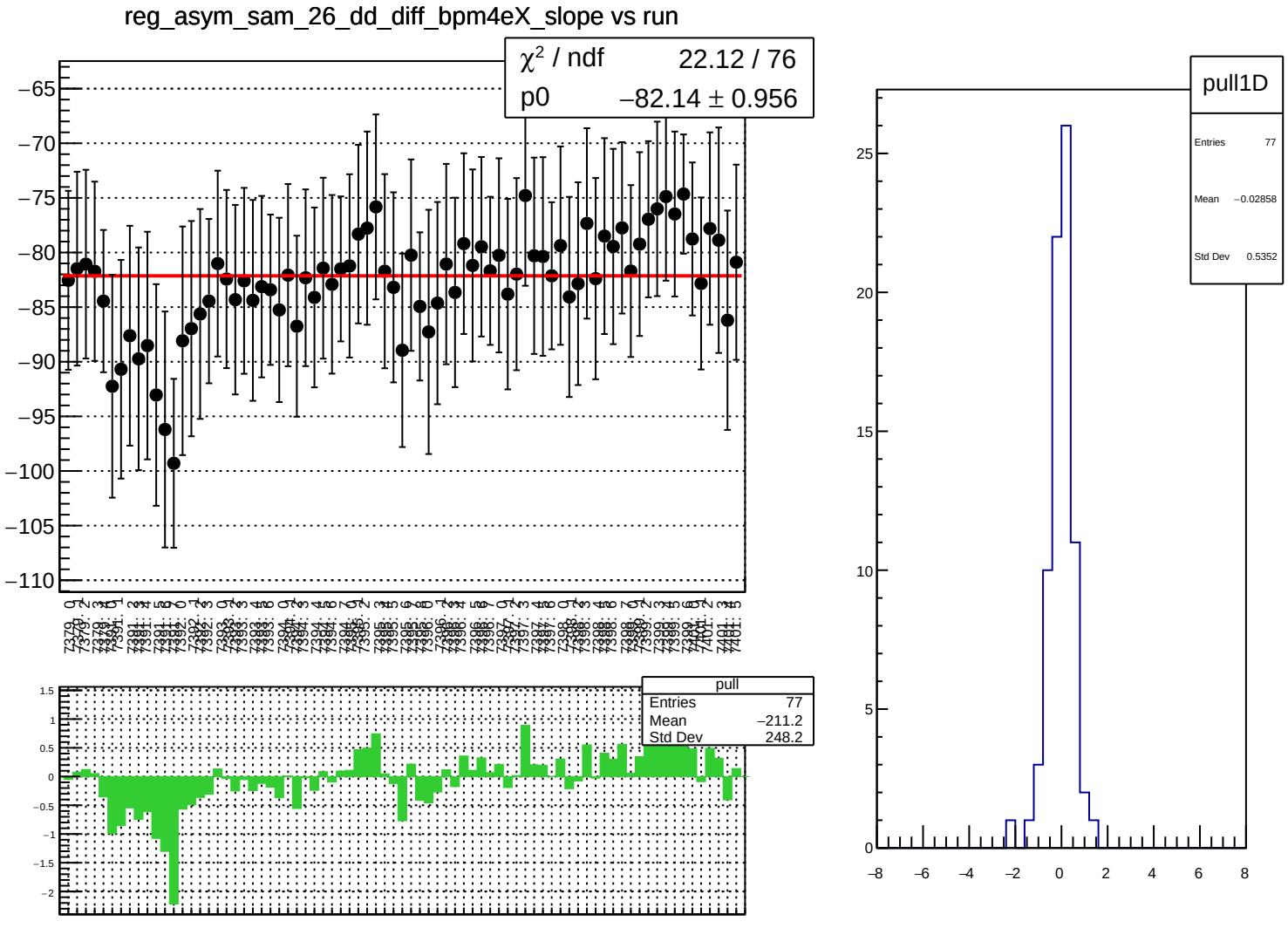

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 59.52 / 76
p0 −27.71 ± 0.2826
pull
Entries 77
Mean 101.3
Std Dev 71.2

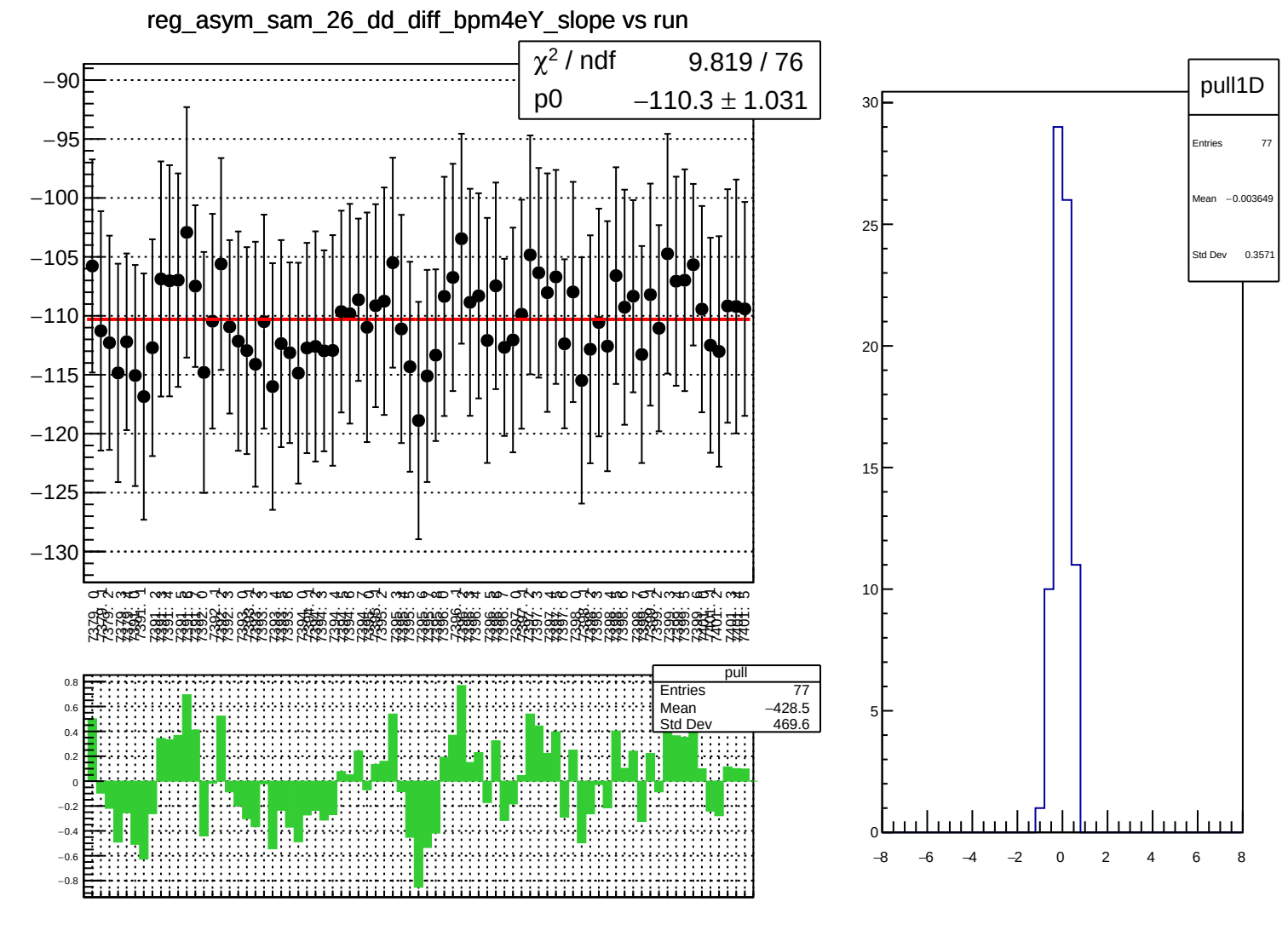

pull1D
Entries 77
Mean −0.04014
Std Dev 0.8783

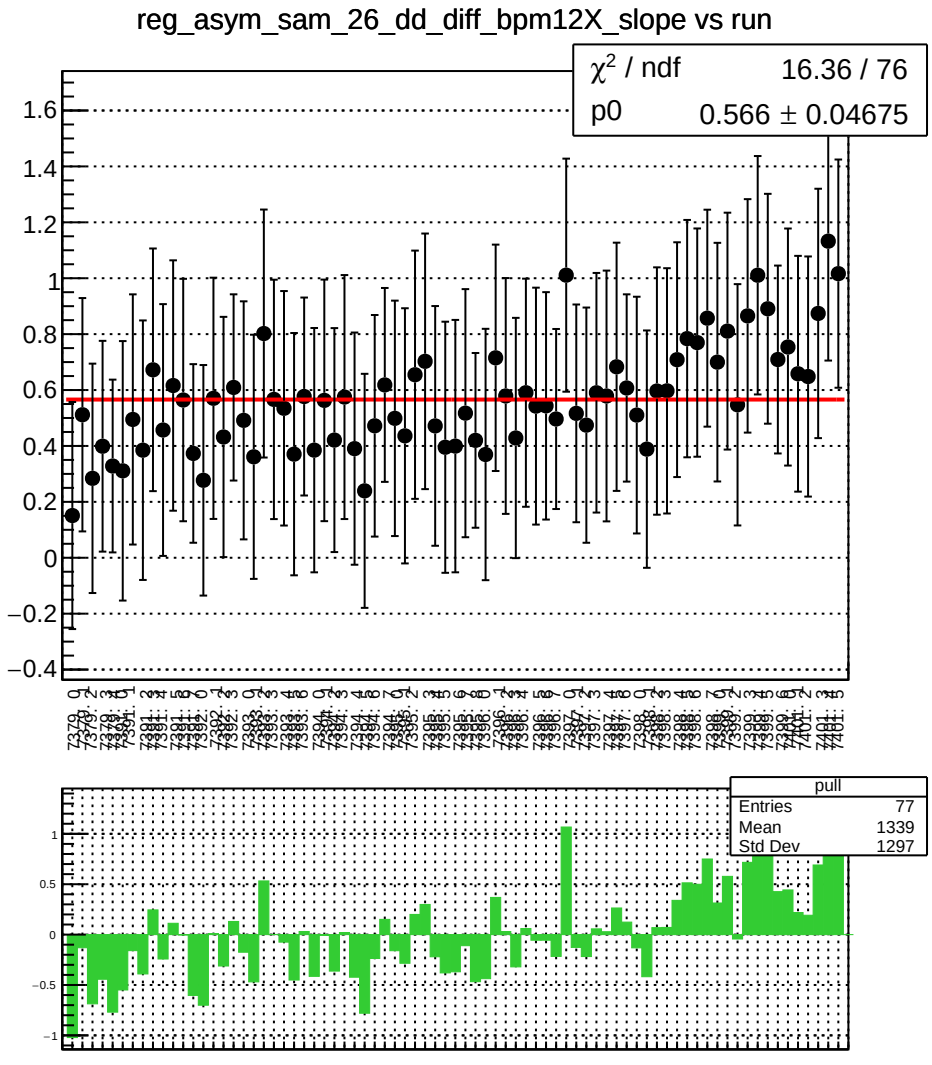

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 9.673 / 76
p0 0.5451± 0.01285
pull
Entries 77
Mean −479.9
Std Dev 513.5
pull1D
Entries 77
Mean 0.003649
Std Dev 0.3544

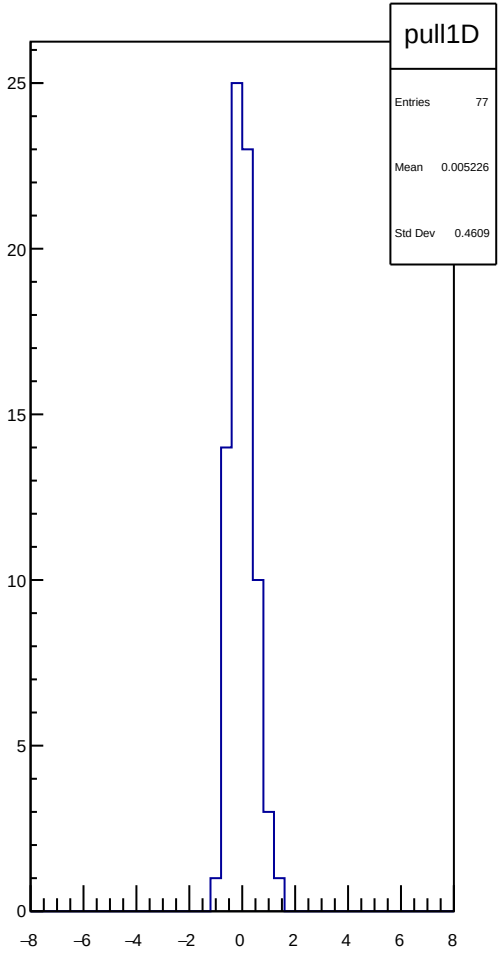

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 18.61 / 76
p0 −38.8 ± 0.9211
pull
Entries 77
Mean −258.1
Std Dev 297
pull1D
Entries 77
Mean 0.02171
Std Dev 0.4911

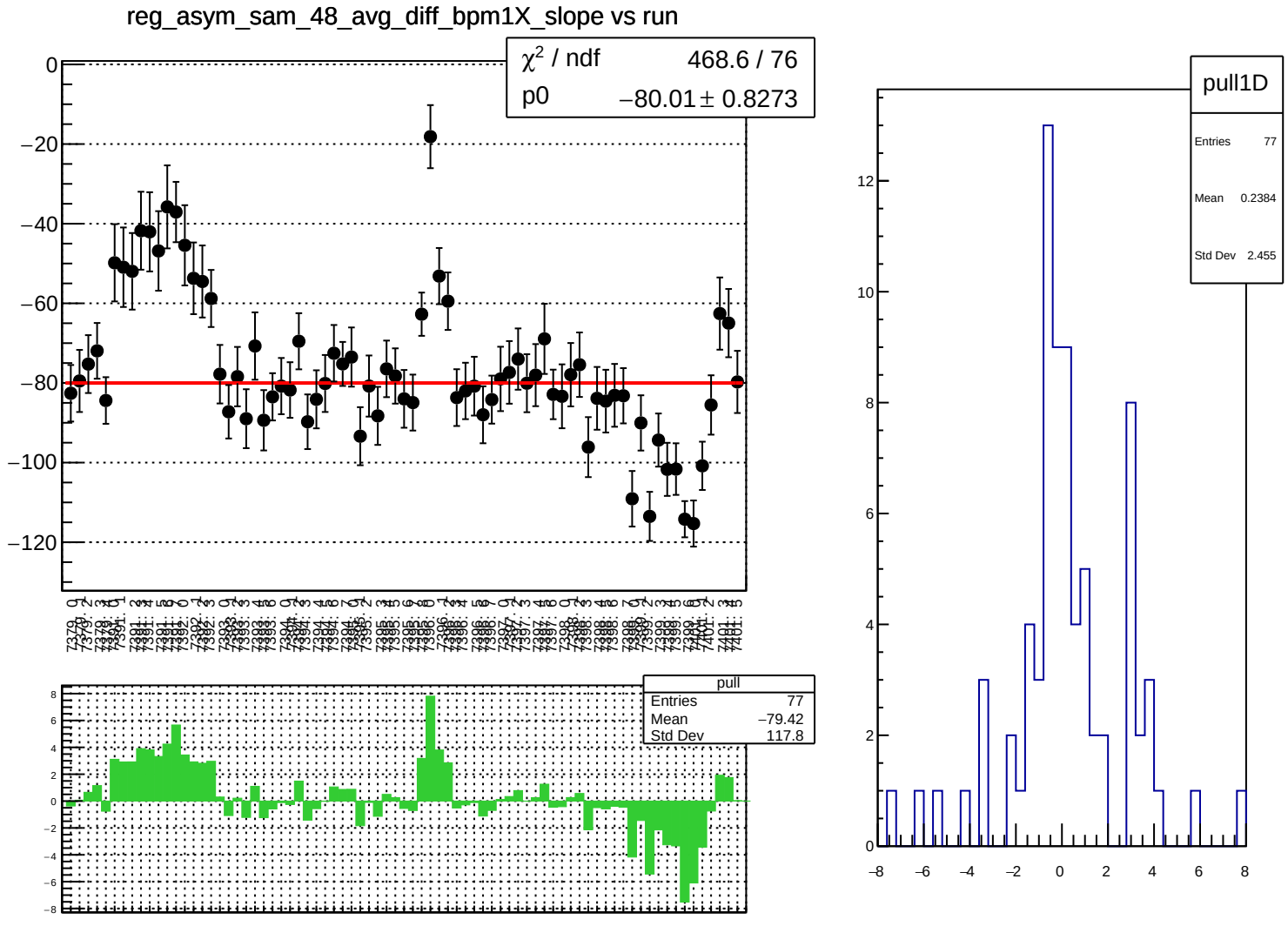

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.772 / 76
p0 −31.82 ± 0.9673
pull
Entries 77
Mean 604.8
Std Dev 559.8
pull1D
Entries 77
Mean −0.001549
Std Dev 0.3375

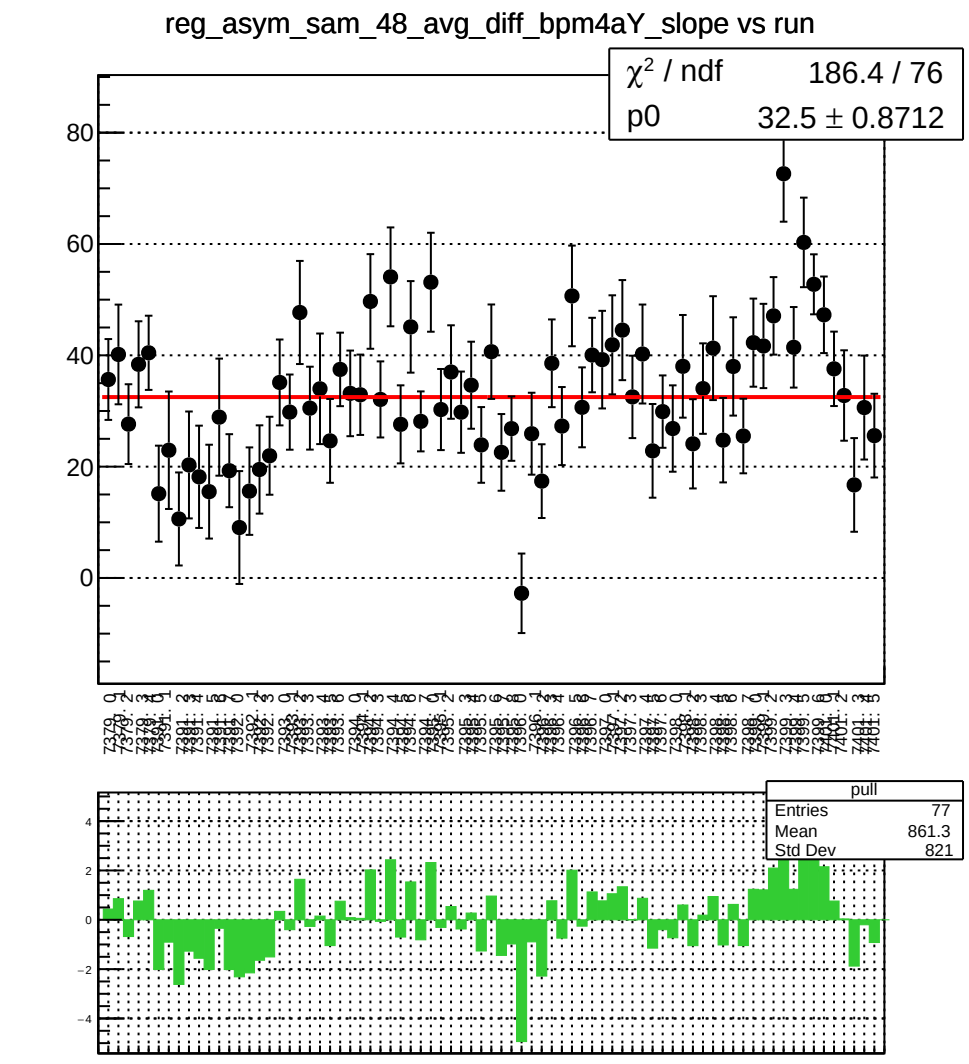

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.12 / 76
p0 −82.14 ± 0.956
pull
Entries 77
Mean −211.2
Std Dev 248.2
pull1D
Entries 77
Mean −0.02858
Std Dev 0.5352

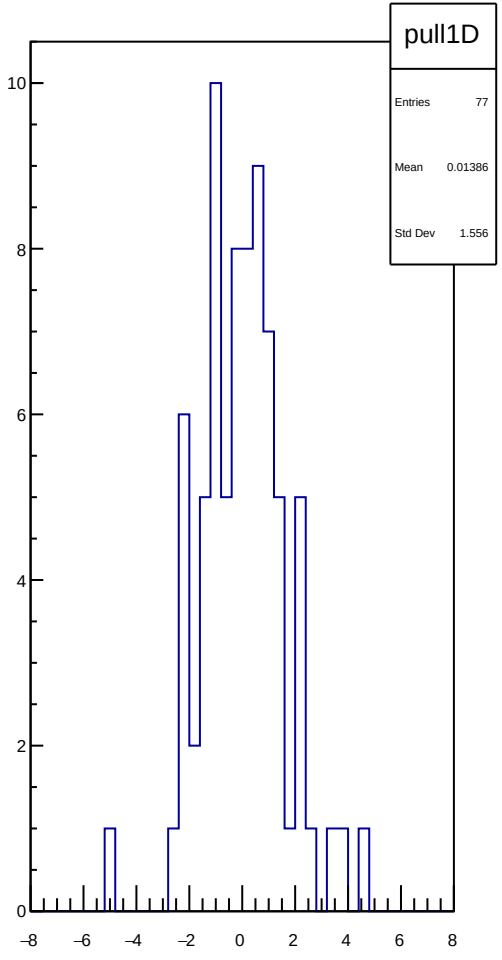

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.819 / 76
p0 −110.3 ± 1.031
pull
Entries 77
Mean −428.5
Std Dev 469.6
pull1D
Entries 77
Mean −0.003649
Std Dev 0.3571

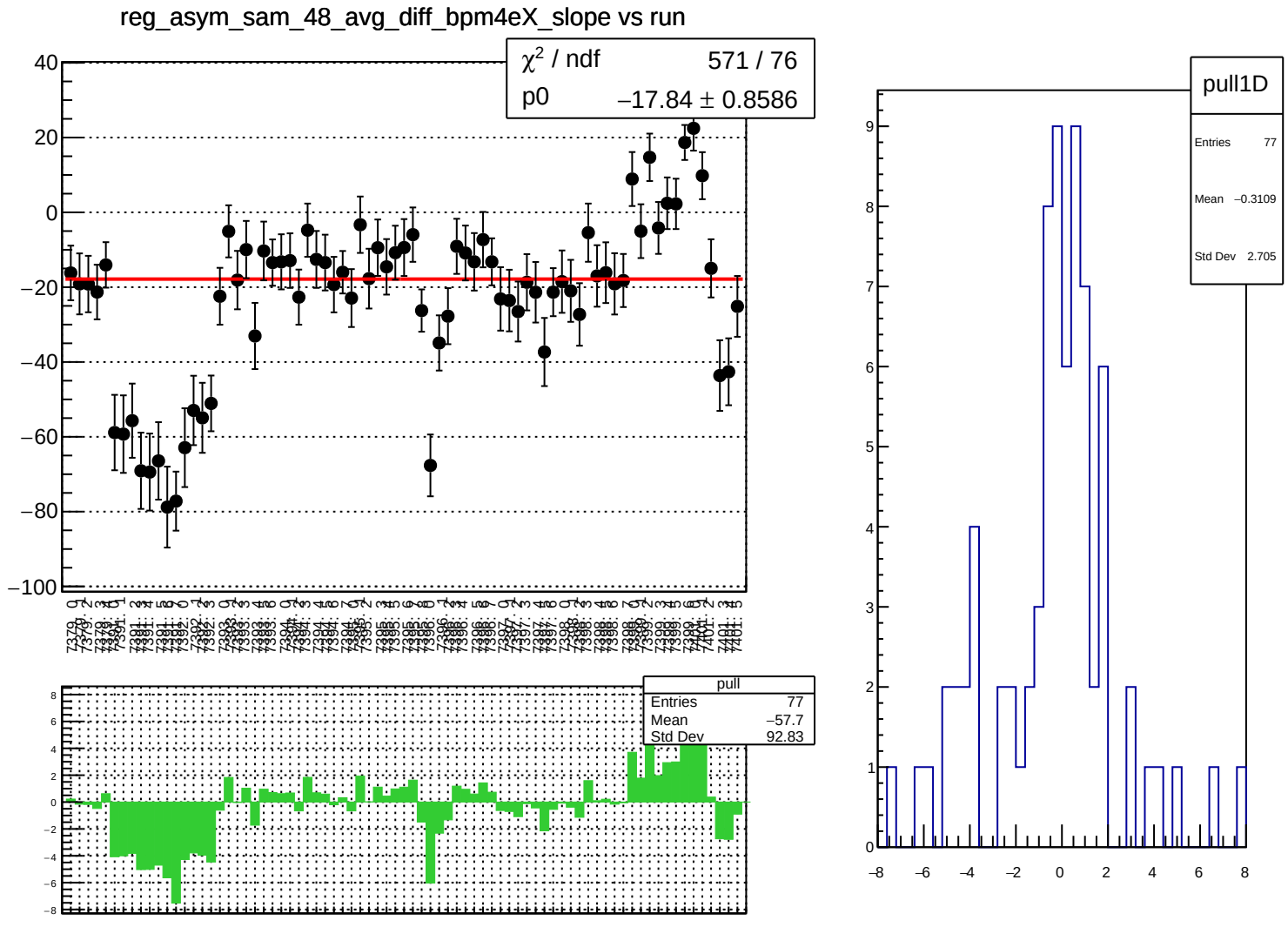

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 16.36 / 76
p0 0.566 ± 0.04675
pull
Entries 77
Mean 1339
Std Dev 1297

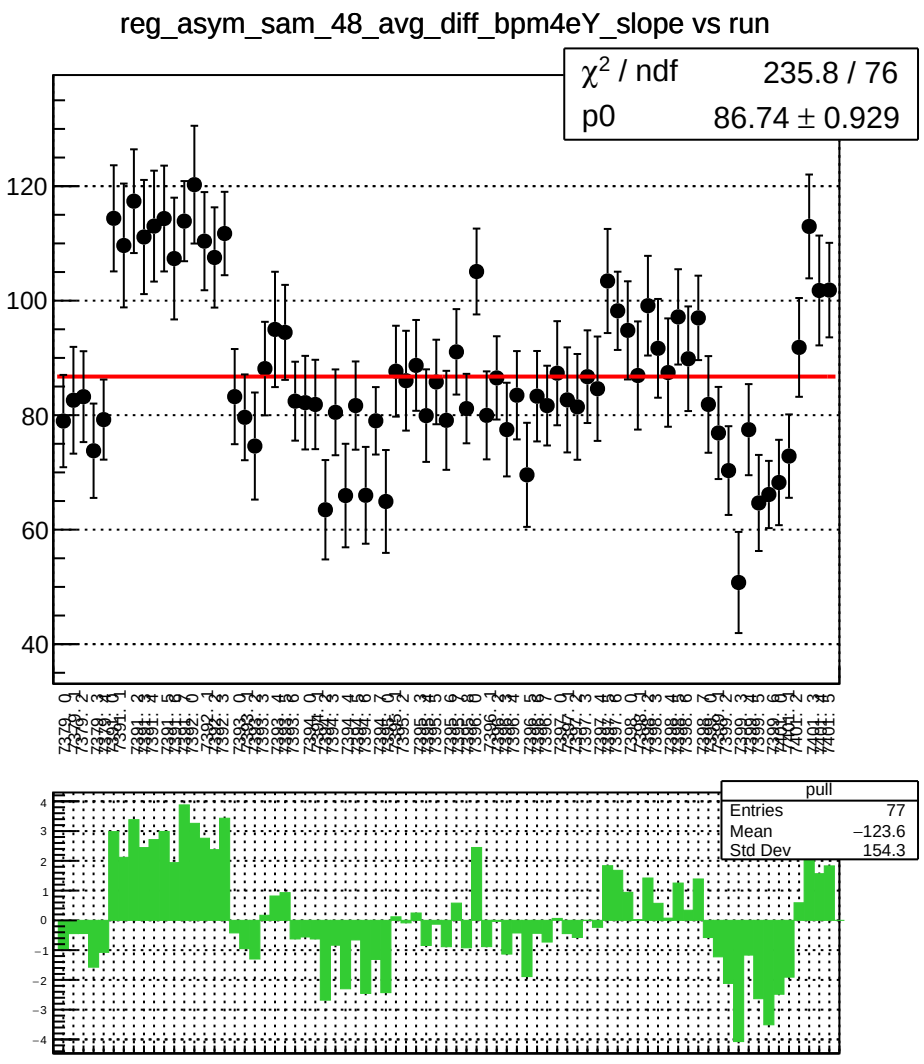

pull1D
Entries 77
Mean 0.005226
Std Dev 0.4609

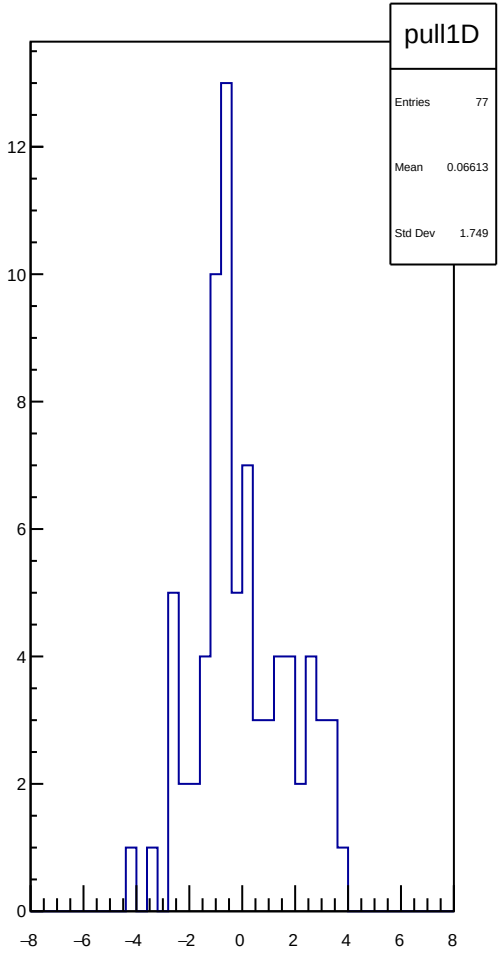

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 468.6 / 76
p0 −80.01 ± 0.8273
pull
Entries 77
Mean −79.42
Std Dev 117.8
pull1D
Entries 77
Mean 0.2384
Std Dev 2.455

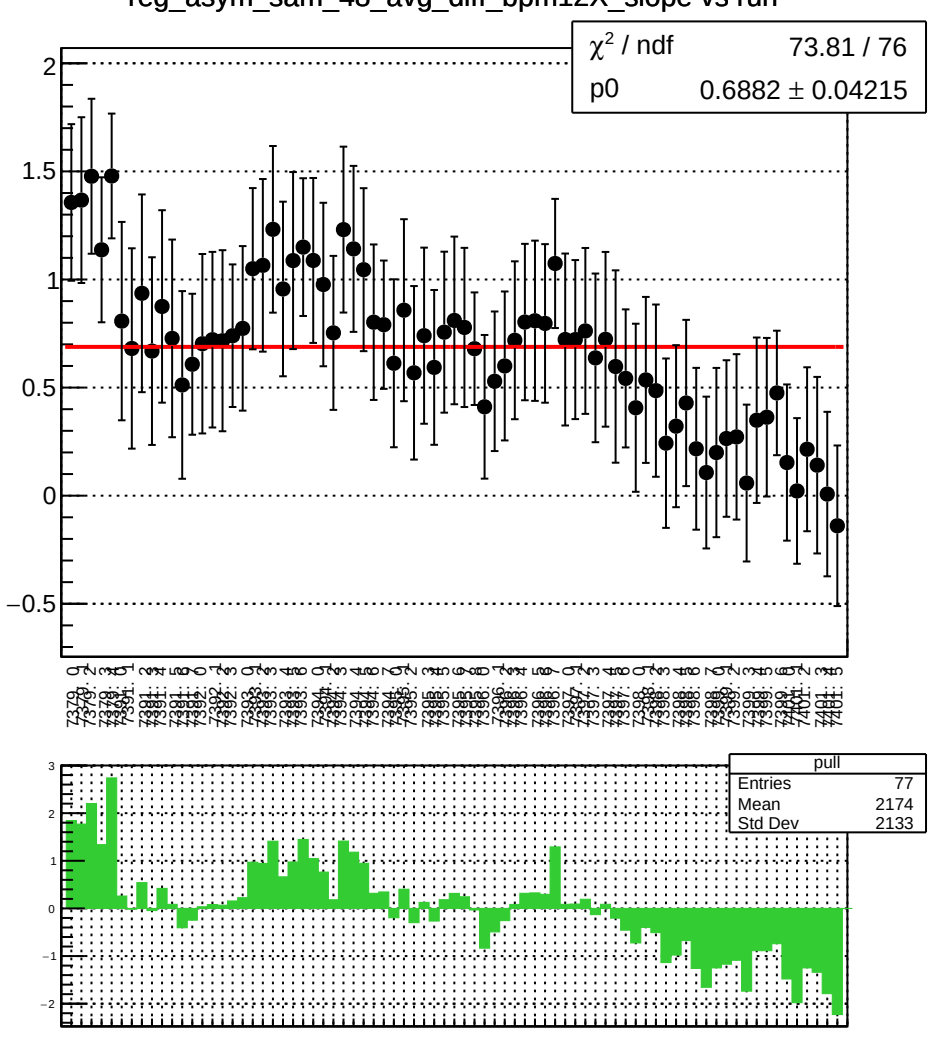

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 186.4 / 76
p0 32.5 ± 0.8712
pull
Entries 77
Mean 861.3
Std Dev 821

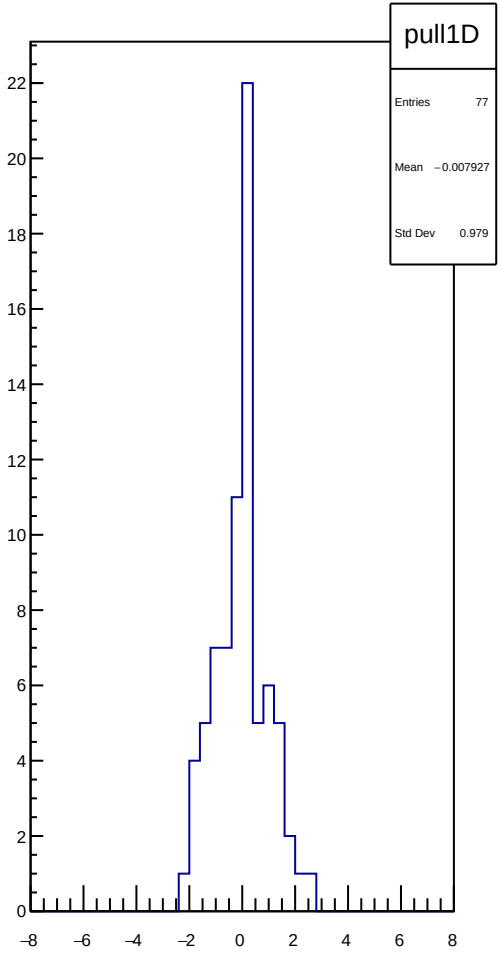

pull1D
Entries 77
Mean 0.01386
Std Dev 1.556

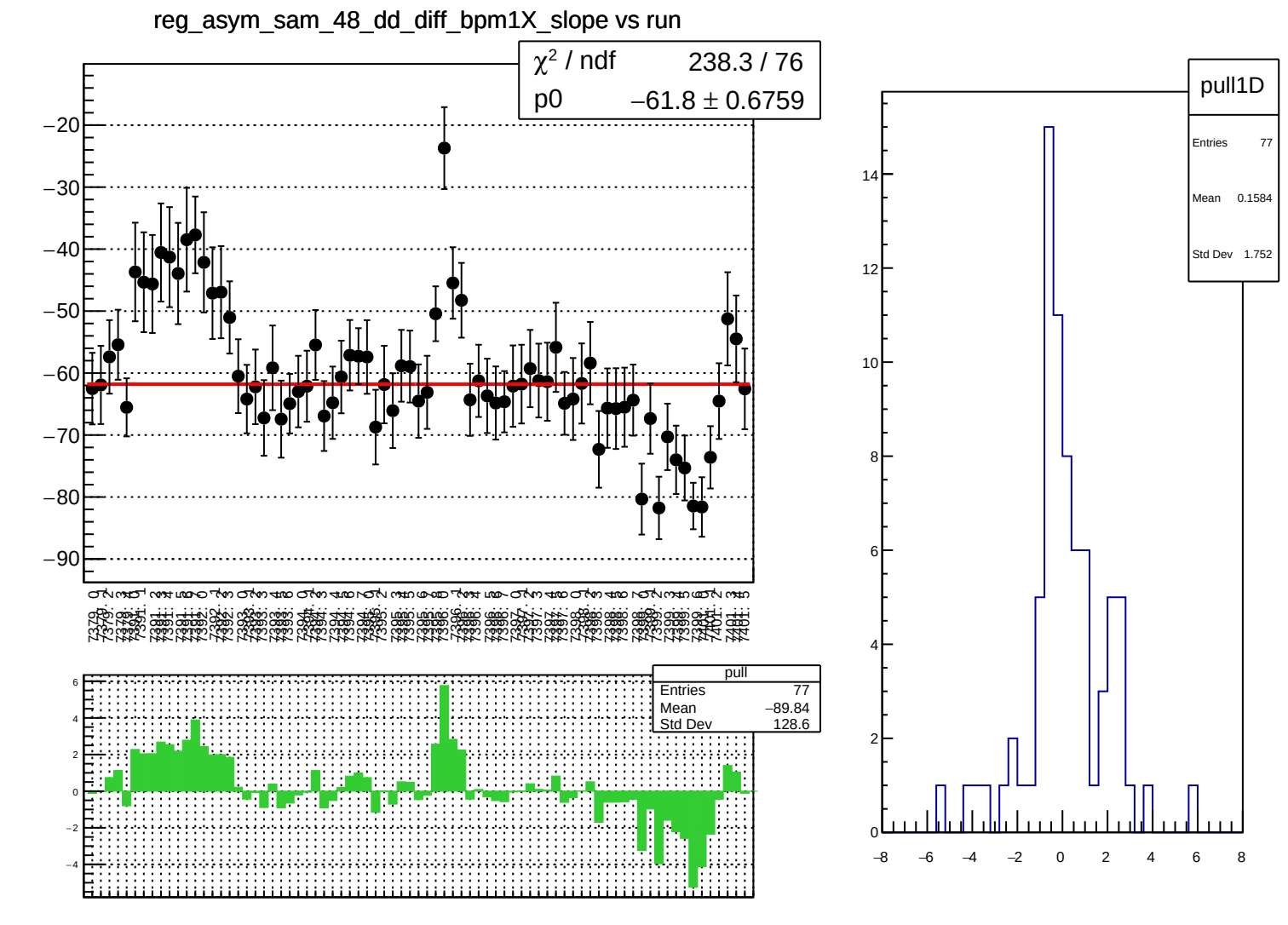

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 571 / 76
p0 −17.84 ± 0.8586
pull
Entries 77
Mean −57.7
Std Dev 92.83
pull1D
Entries 77
Mean −0.3109
Std Dev 2.705

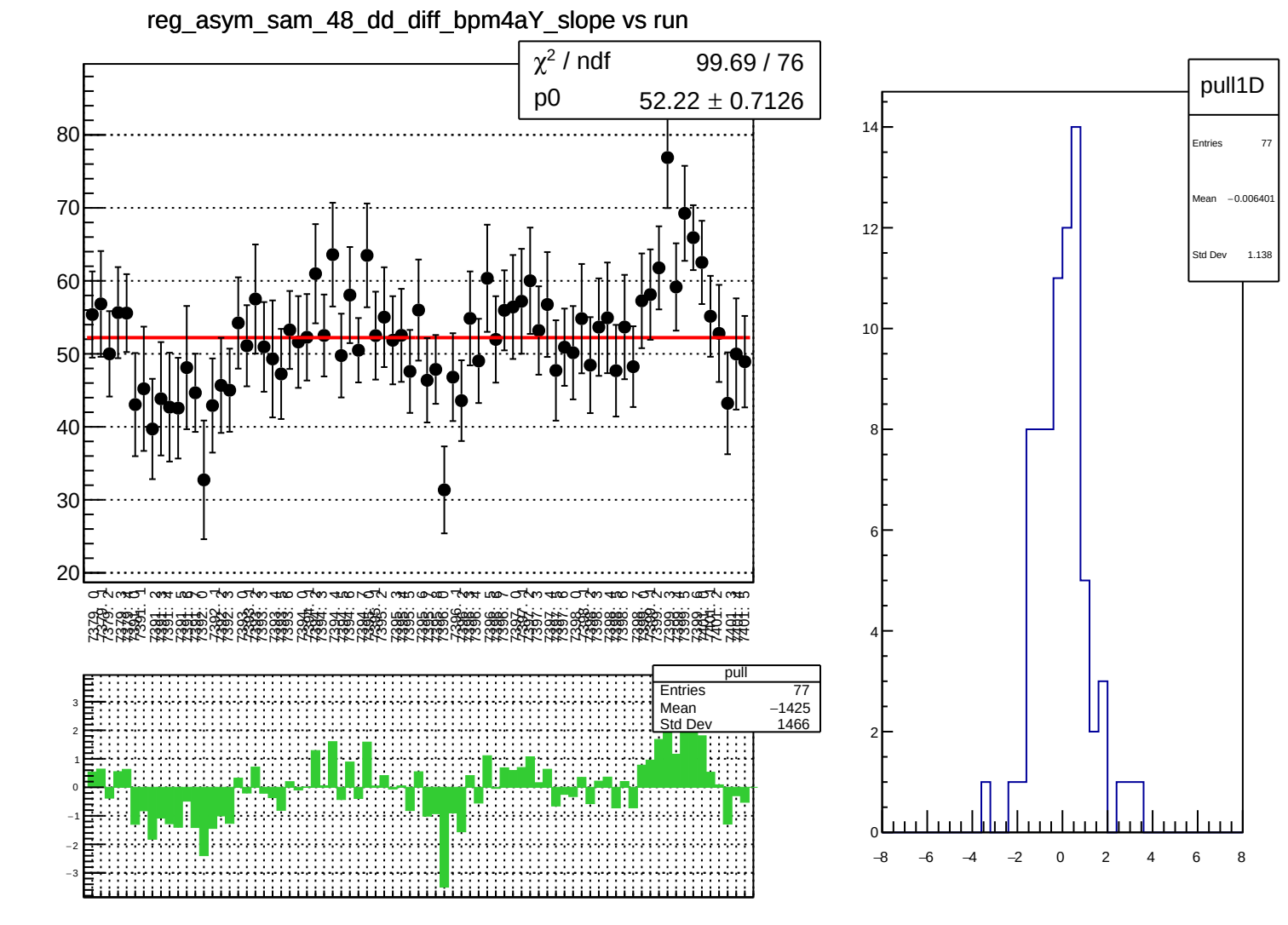

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 235.8 / 76
p0 86.74 ± 0.929
120
100
80
60
40
pull
Entries 77
Mean −123.6
Std Dev 154.3
4
3
2
1
0
−1
−2
−3
−4

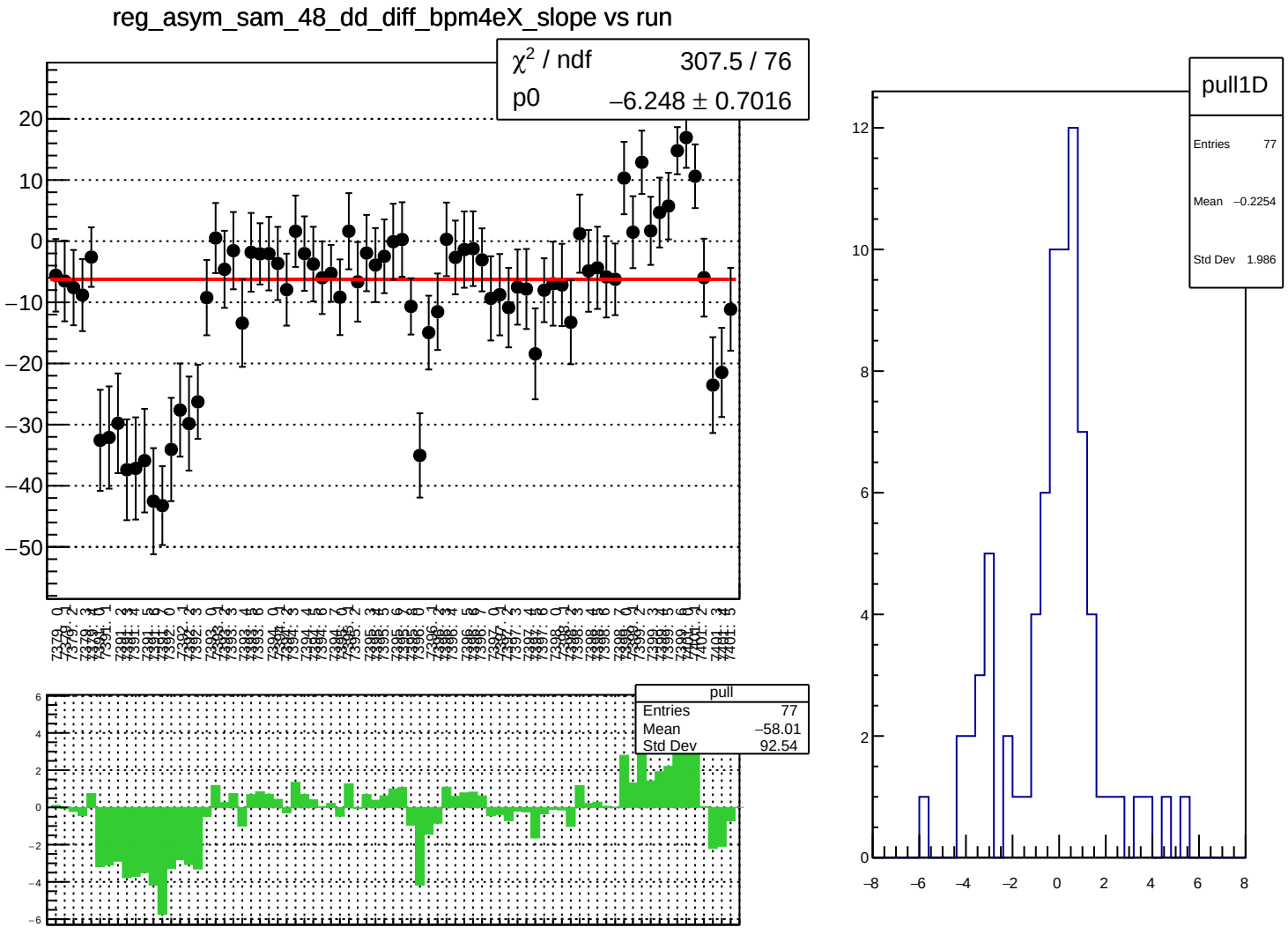

pull1D
Entries 77
Mean 0.06613
Std Dev 1.749
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

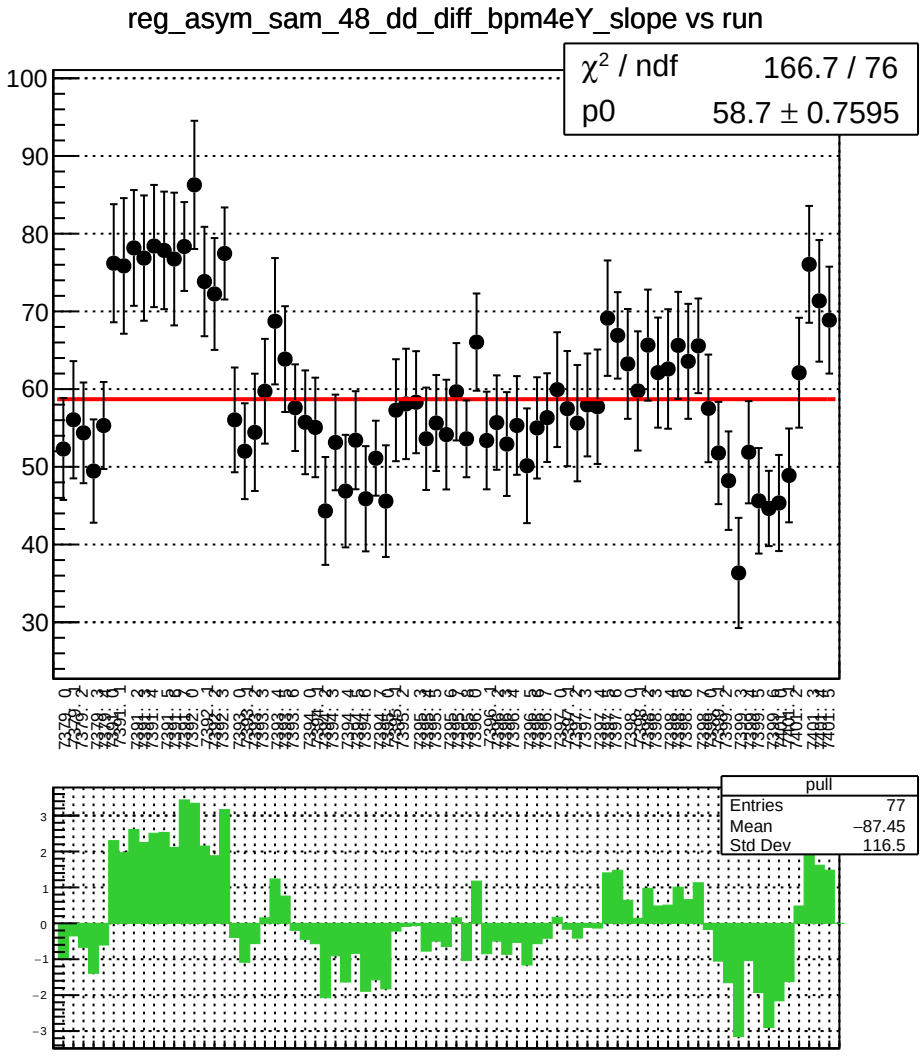

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 73.81 / 76
p0 0.6882 ± 0.04215
pull
Entries 77
Mean 2174
Std Dev 2133

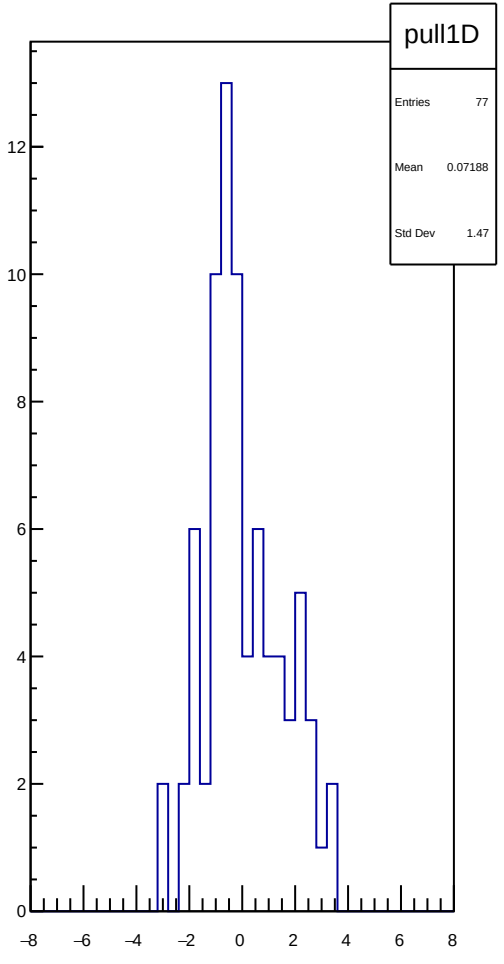

pull1D
Entries 77
Mean −0.007927
Std Dev 0.979

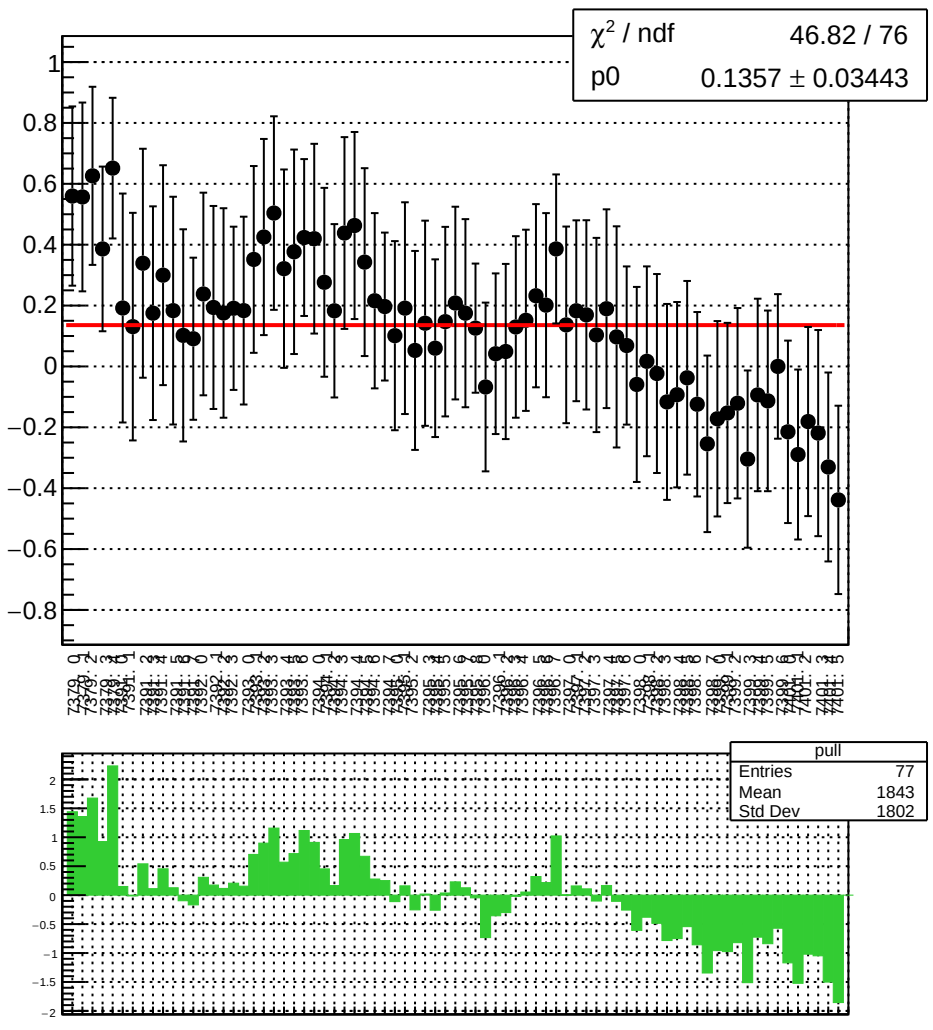

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 238.3 / 76
p0 −61.8 ± 0.6759
pull
Entries 77
Mean −89.84
Std Dev 128.6
pull1D
Entries 77
Mean 0.1584
Std Dev 1.752

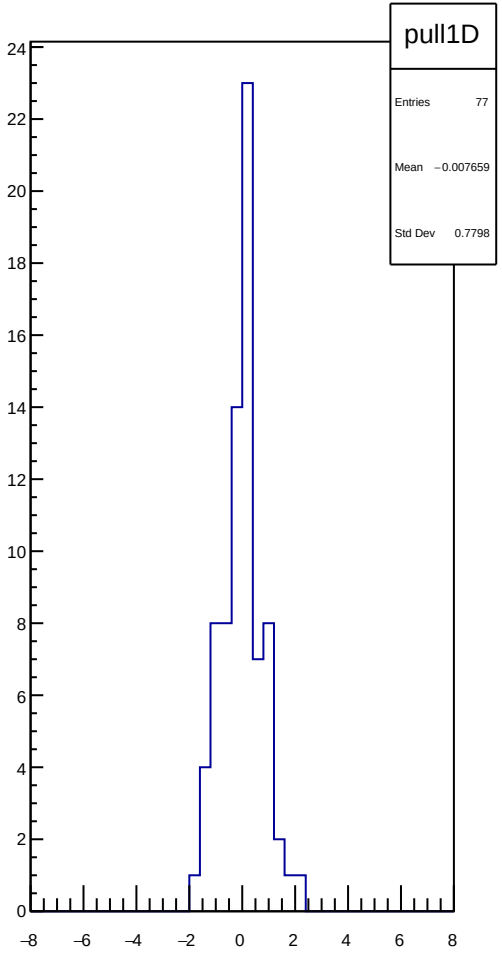

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 99.69 / 76
p0 52.22 ± 0.7126
pull
Entries 77
Mean −1425
Std Dev 1466
pull1D
Entries 77
Mean −0.006401
Std Dev 1.138

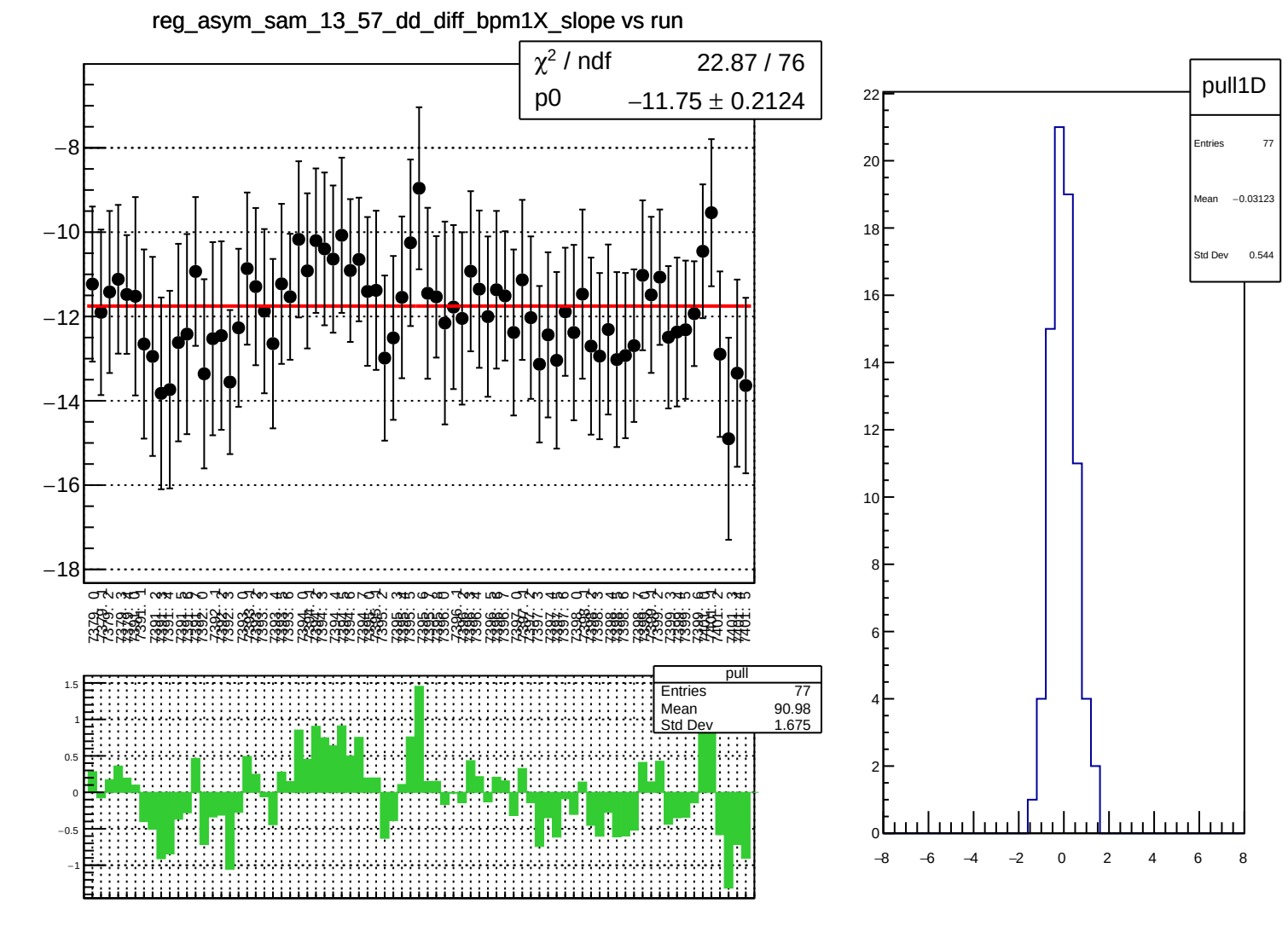

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 307.5 / 76
p0 −6.248 ± 0.7016
pull
Entries 77
Mean −58.01
Std Dev 92.54
pull1D
Entries 77
Mean −0.2254
Std Dev 1.986

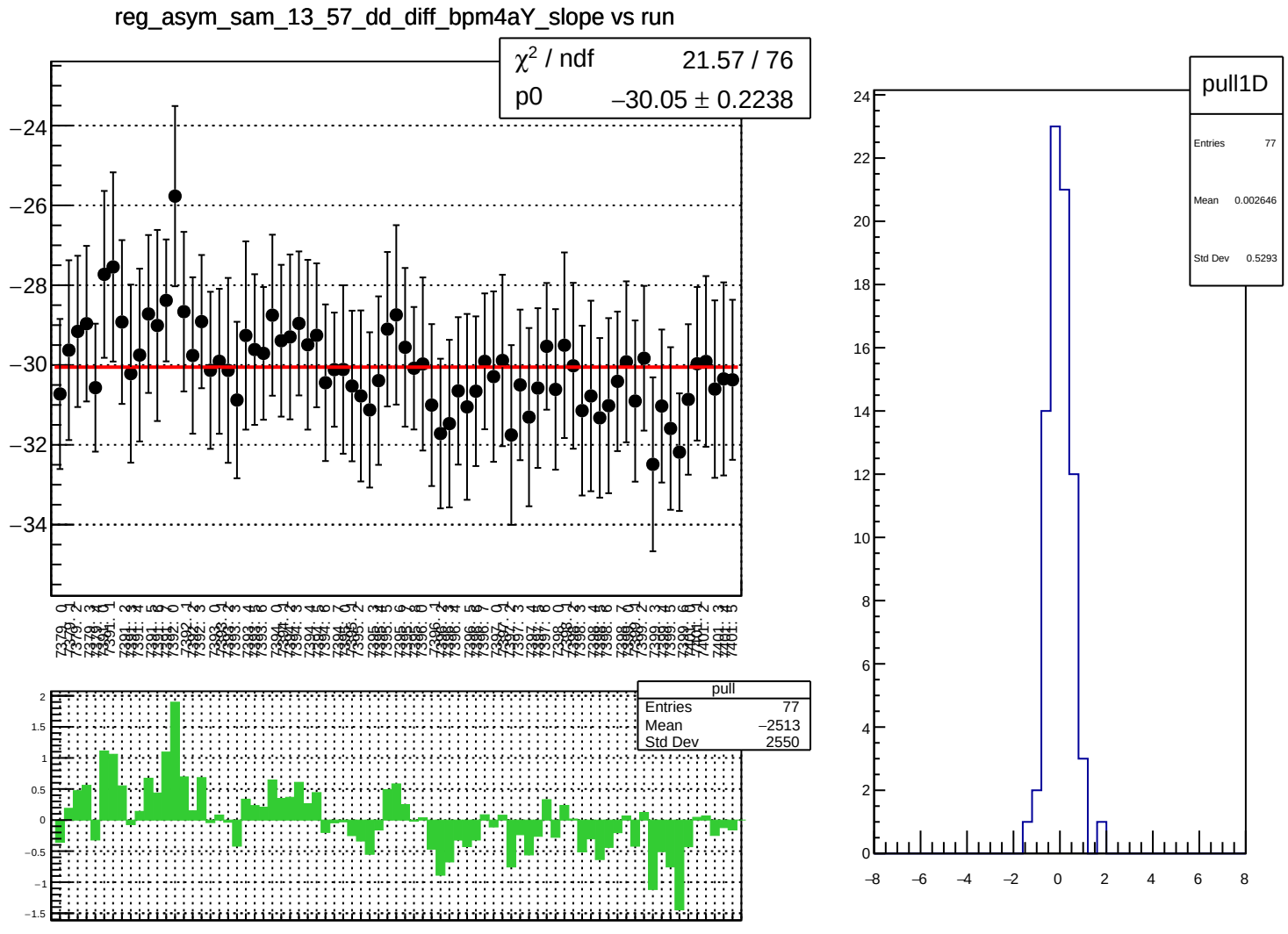

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 166.7 / 76
p0 58.7 ± 0.7595
pull
Entries 77
Mean −87.45
Std Dev 116.5

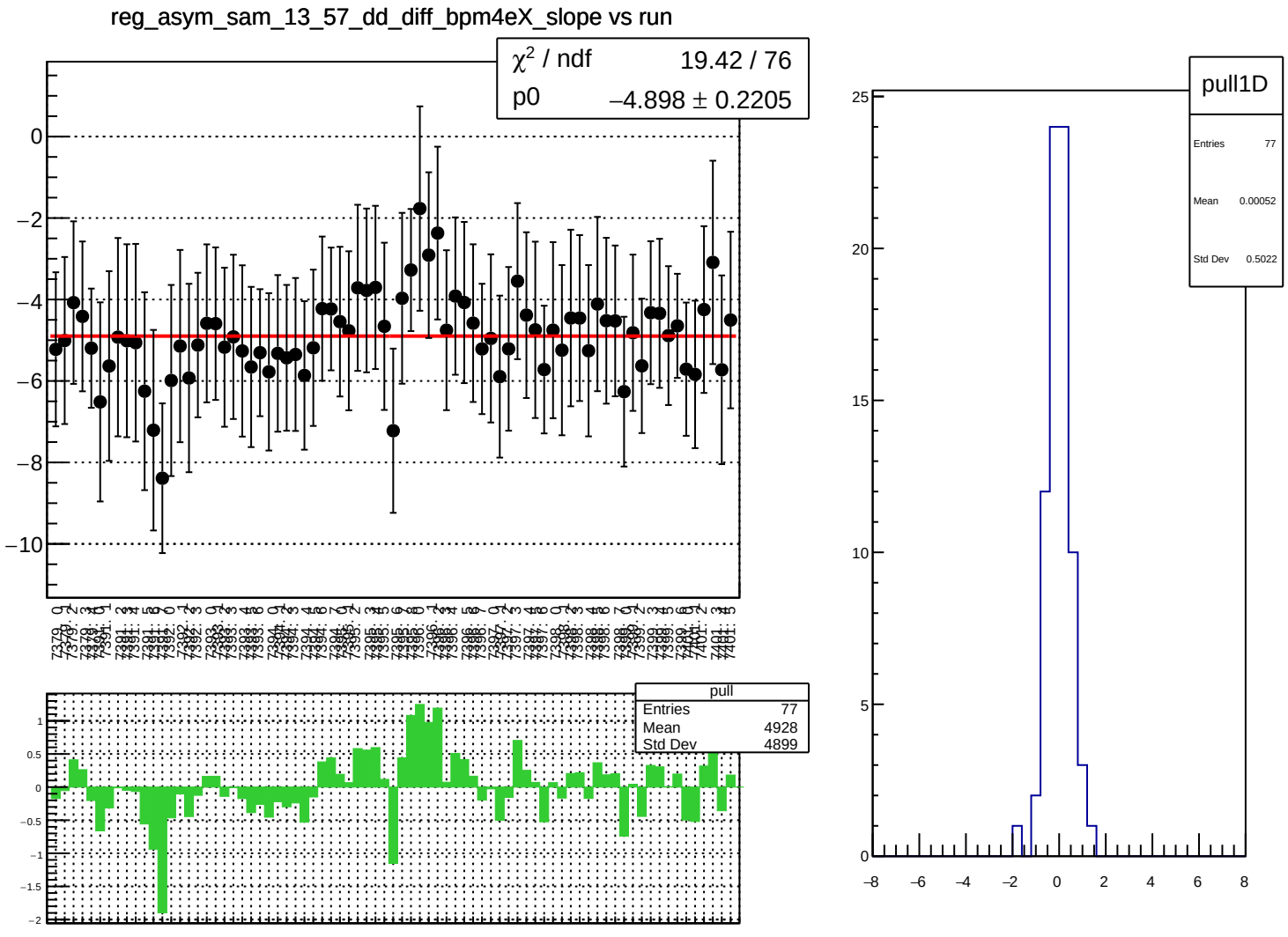

pull1D
Entries 77
Mean 0.07188
Std Dev 1.47

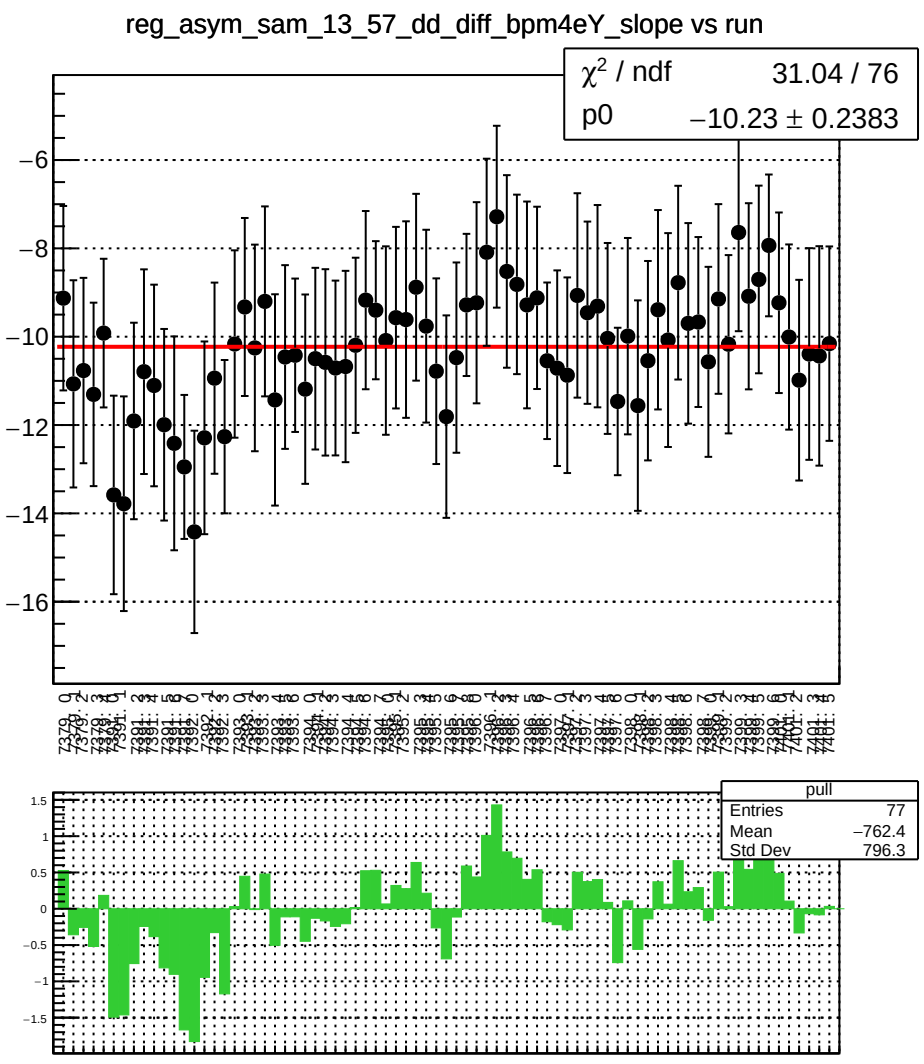

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 46.82 / 76
p0 0.1357 ± 0.03443
pull
Entries 77
Mean 1843
Std Dev 1802

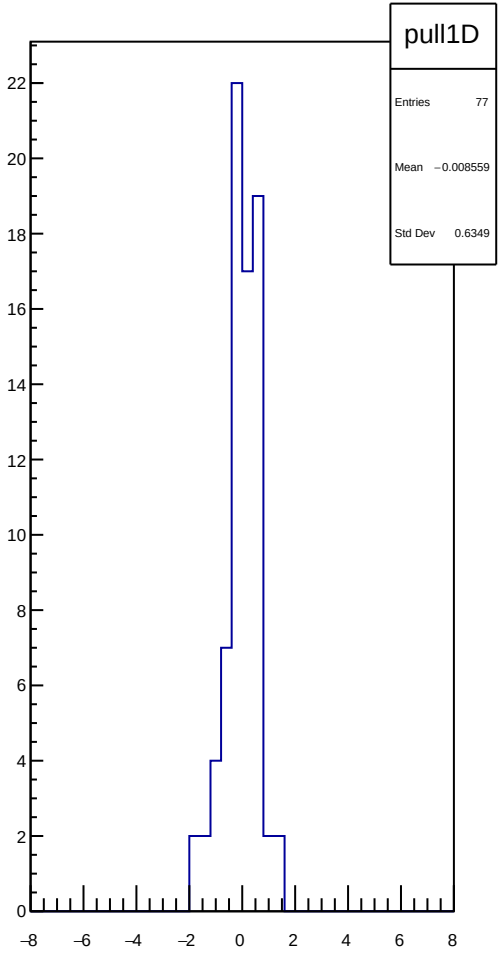

pull1D
Entries 77
Mean −0.007659
Std Dev 0.7798

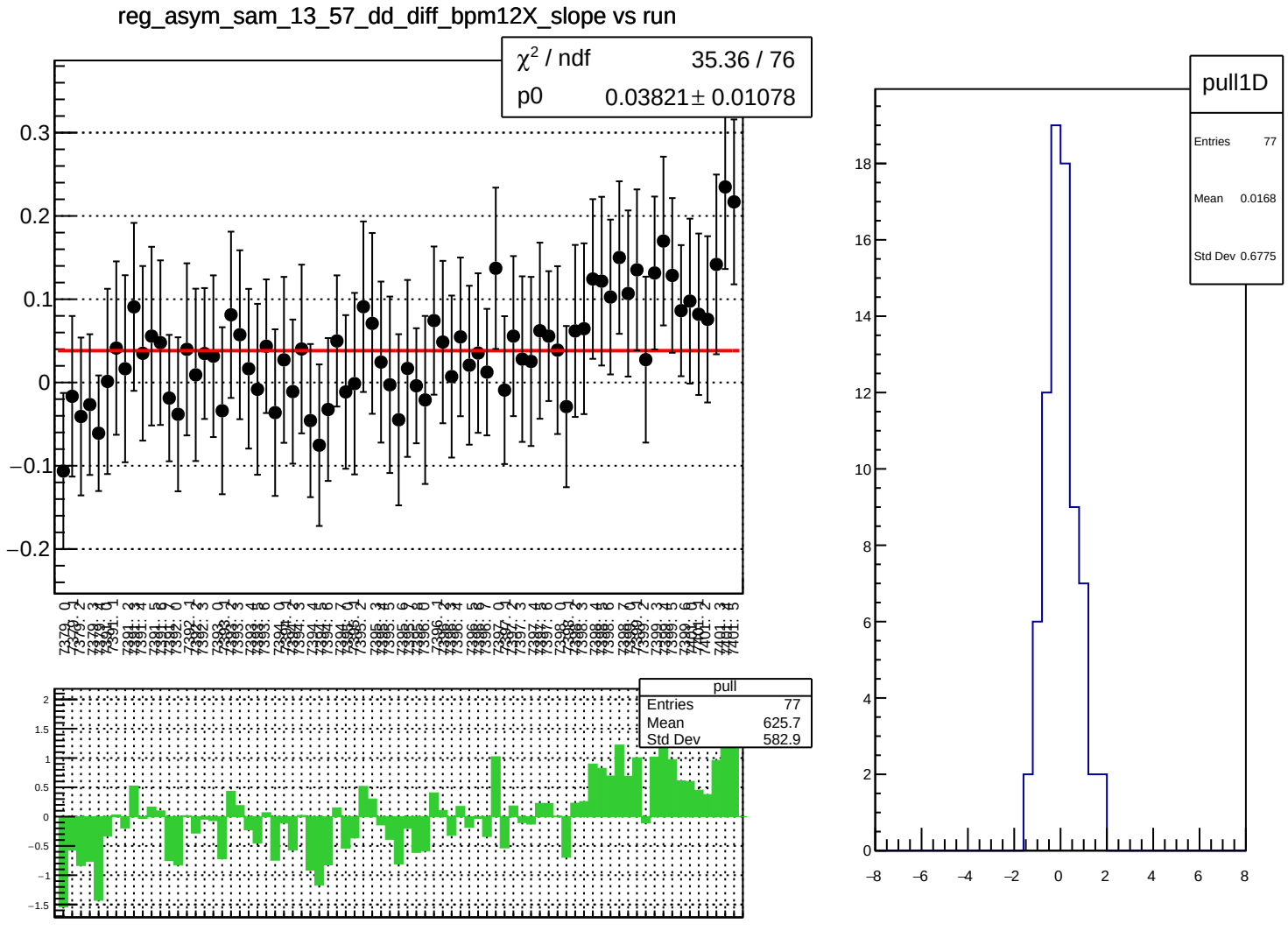

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 22.87 / 76
p0 −11.75 ± 0.2124
pull
Entries 77
Mean 90.98
Std Dev 1.675
pull1D
Entries 77
Mean −0.03123
Std Dev 0.544

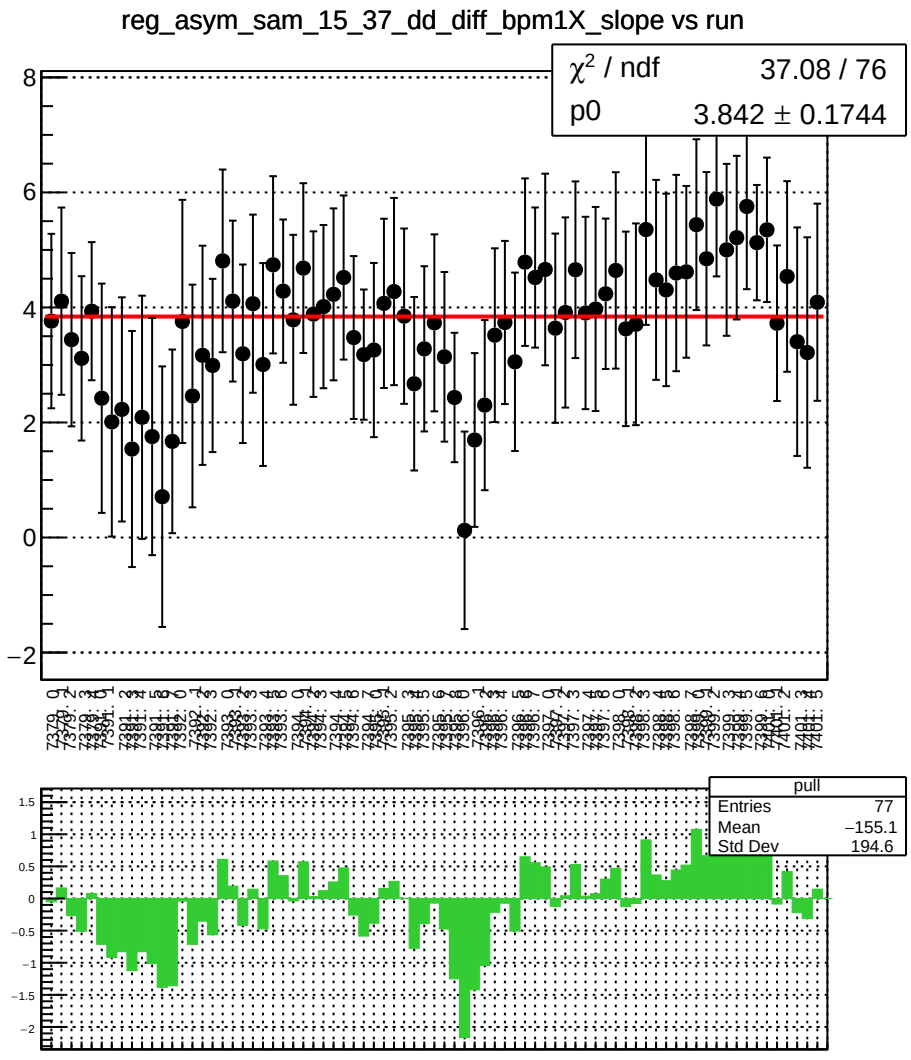

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.57 / 76
p0 −30.05 ± 0.2238
pull
Entries 77
Mean −2513
Std Dev 2550
pull1D
Entries 77
Mean 0.002646
Std Dev 0.5293

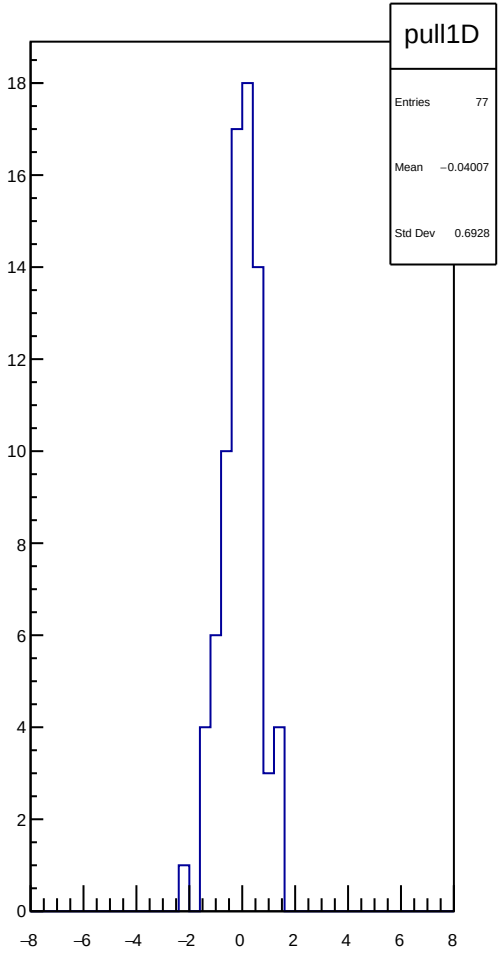

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.42 / 76
p0 −4.898 ± 0.2205
pull
Entries 77
Mean 4928
Std Dev 4899
pull1D
Entries 77
Mean 0.00052
Std Dev 0.5022

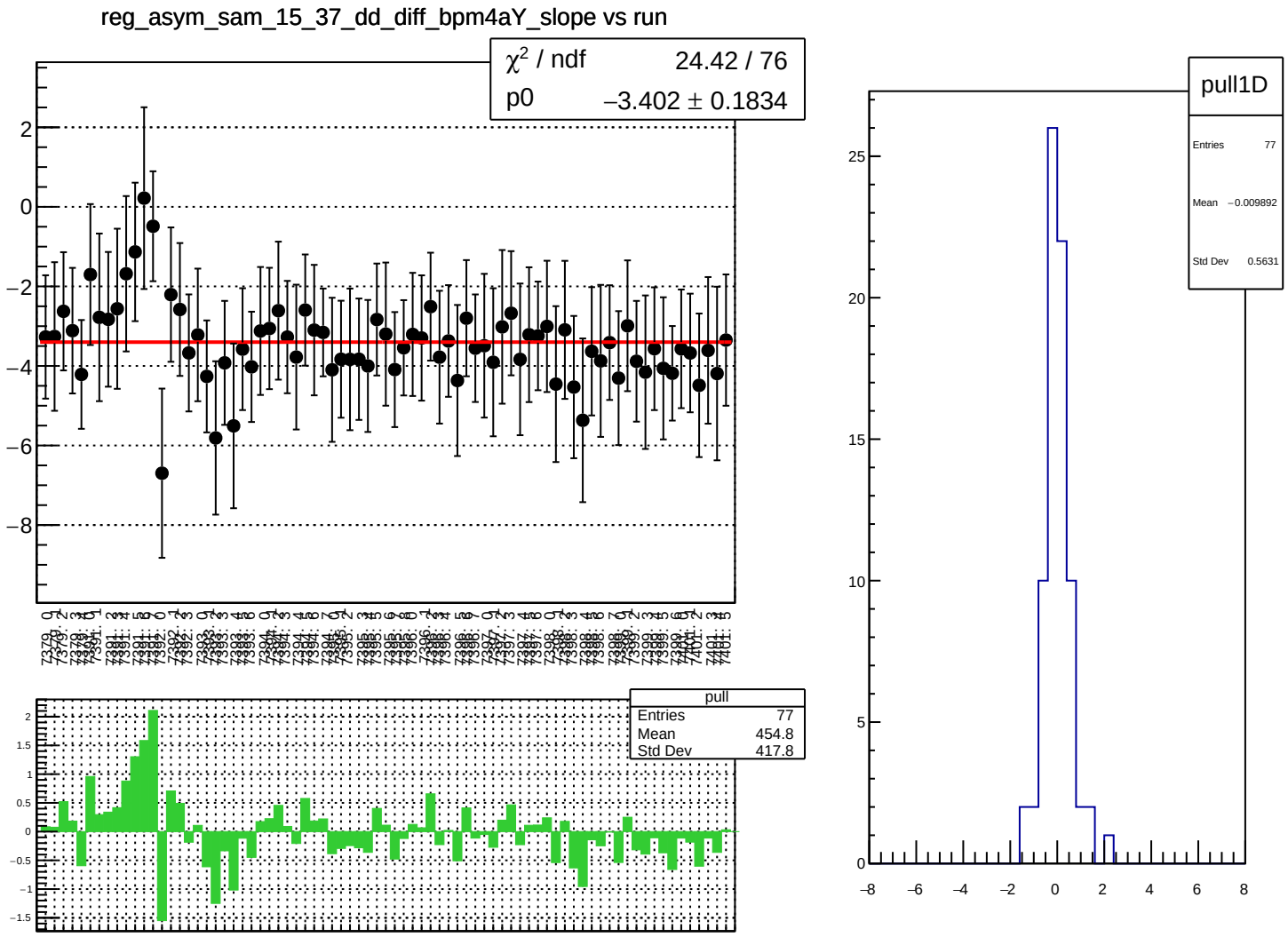

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.04 / 76
p0 −10.23 ± 0.2383
pull
Entries 77
Mean −762.4
Std Dev 796.3

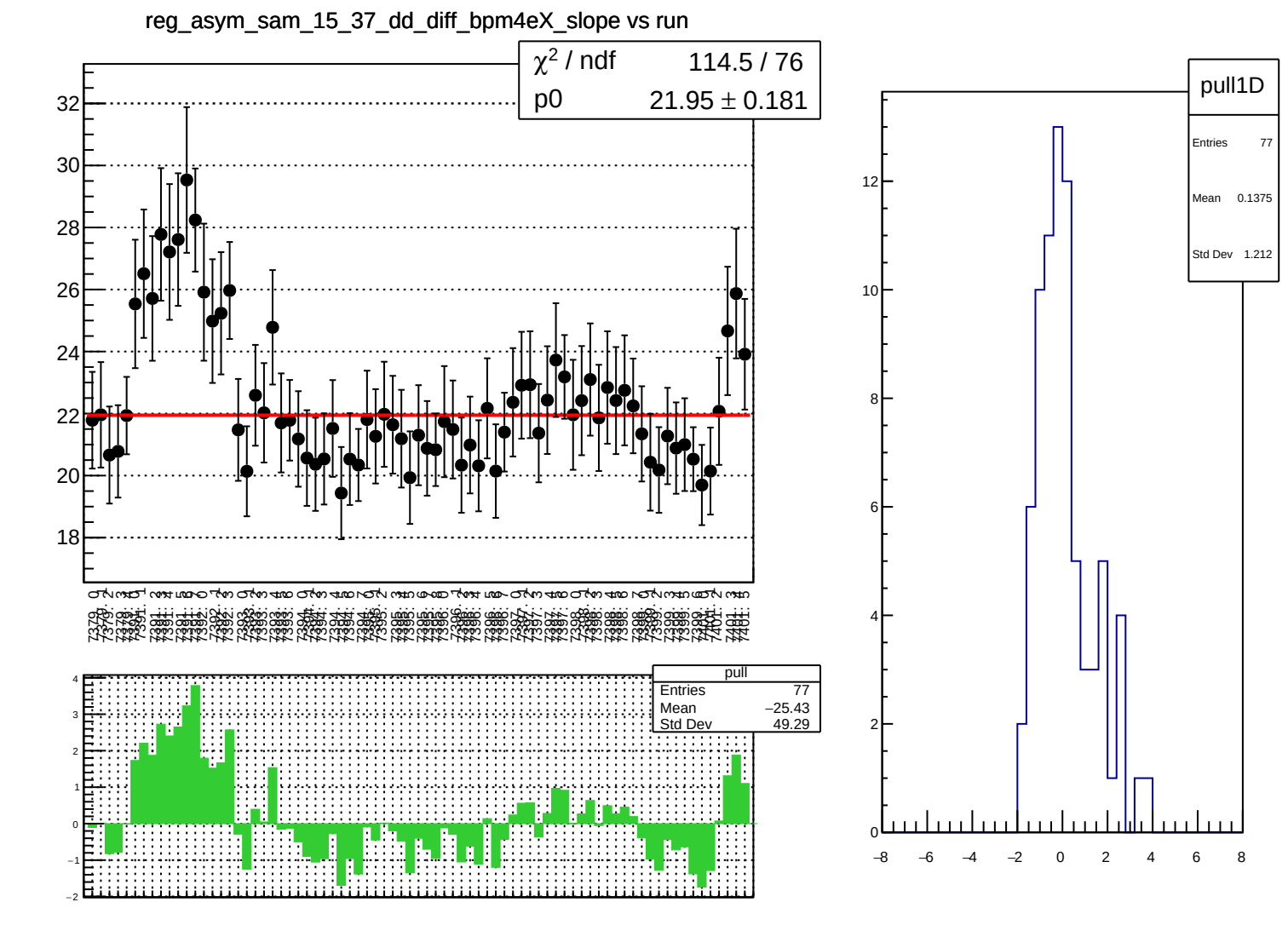

pull1D
Entries 77
Mean −0.008559
Std Dev 0.6349

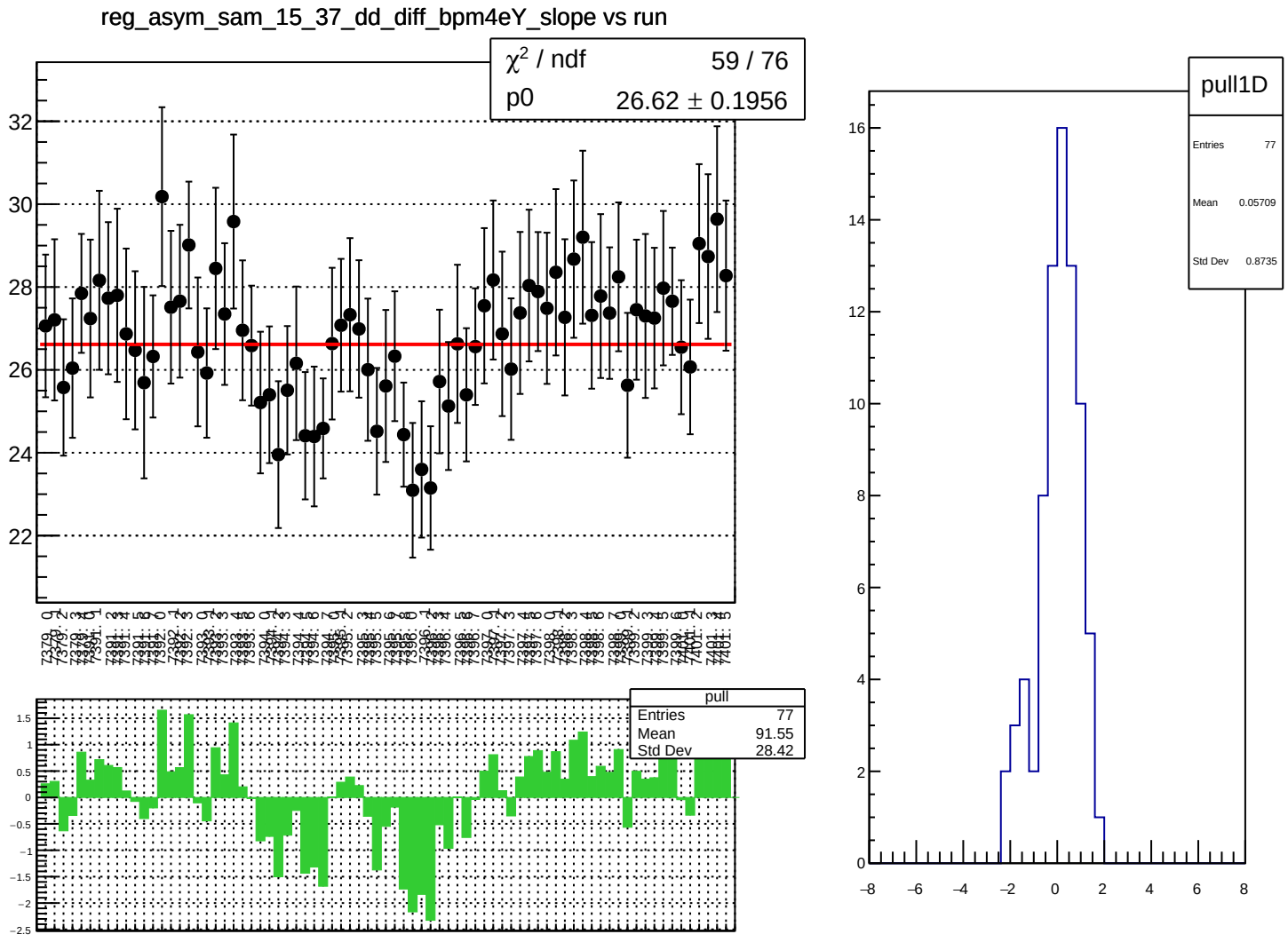

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 35.36 / 76
p0 0.03821 ± 0.01078
pull
Entries 77
Mean 625.7
Std Dev 582.9
pull1D
Entries 77
Mean 0.0168
Std Dev 0.6775

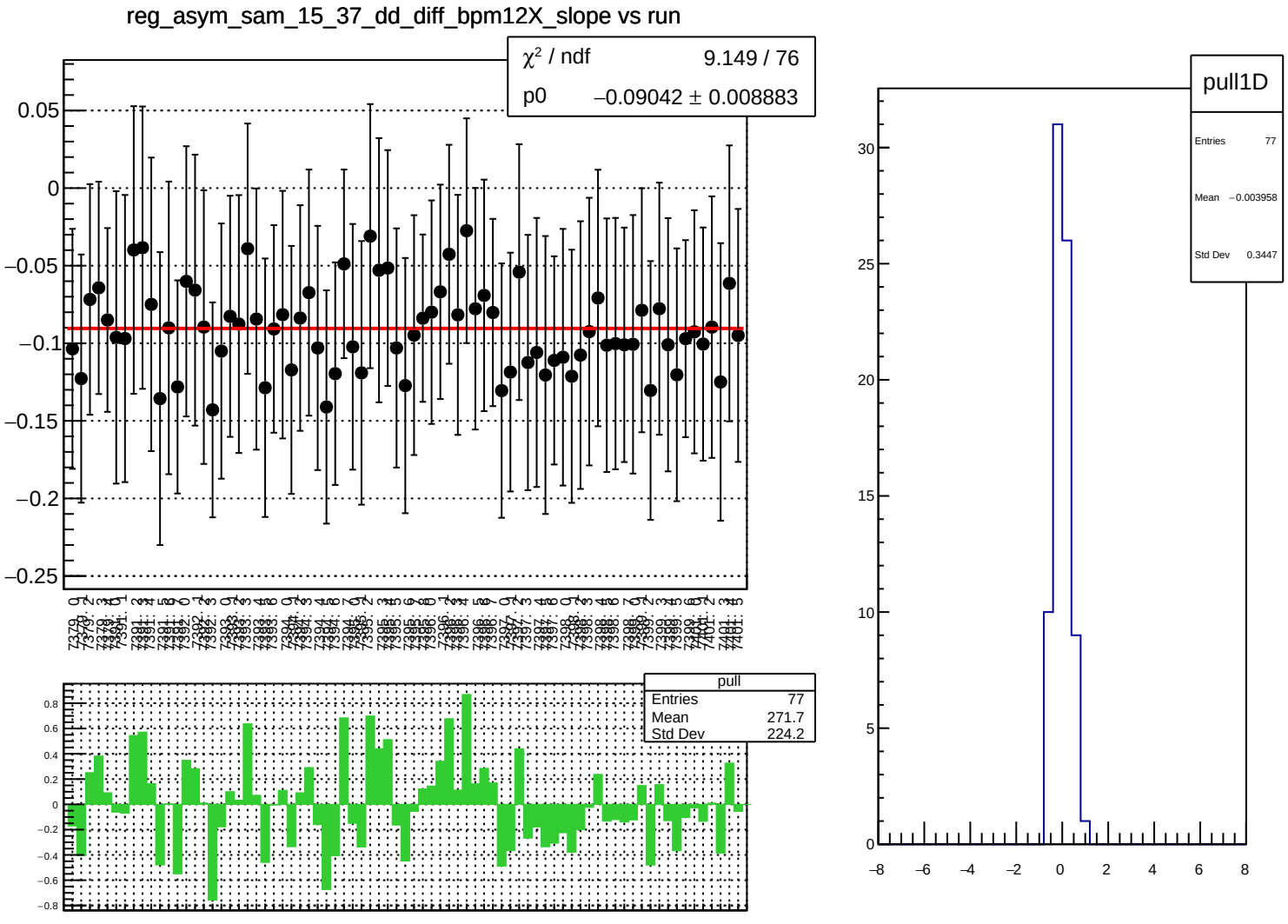

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 37.08 / 76
p0 3.842 ± 0.1744
pull
Entries 77
Mean −155.1
Std Dev 194.6

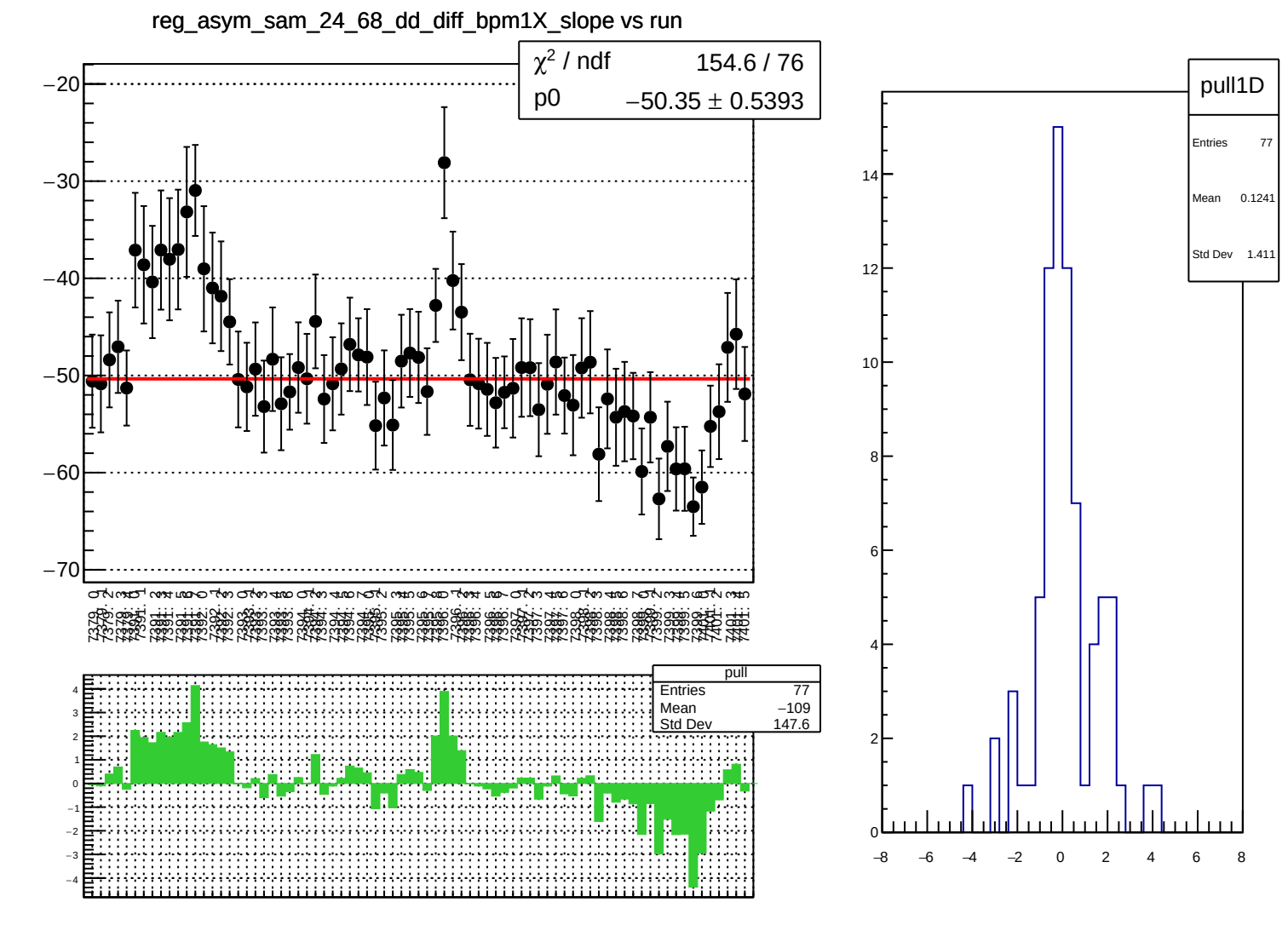

pull1D
Entries 77
Mean −0.04007
Std Dev 0.6928

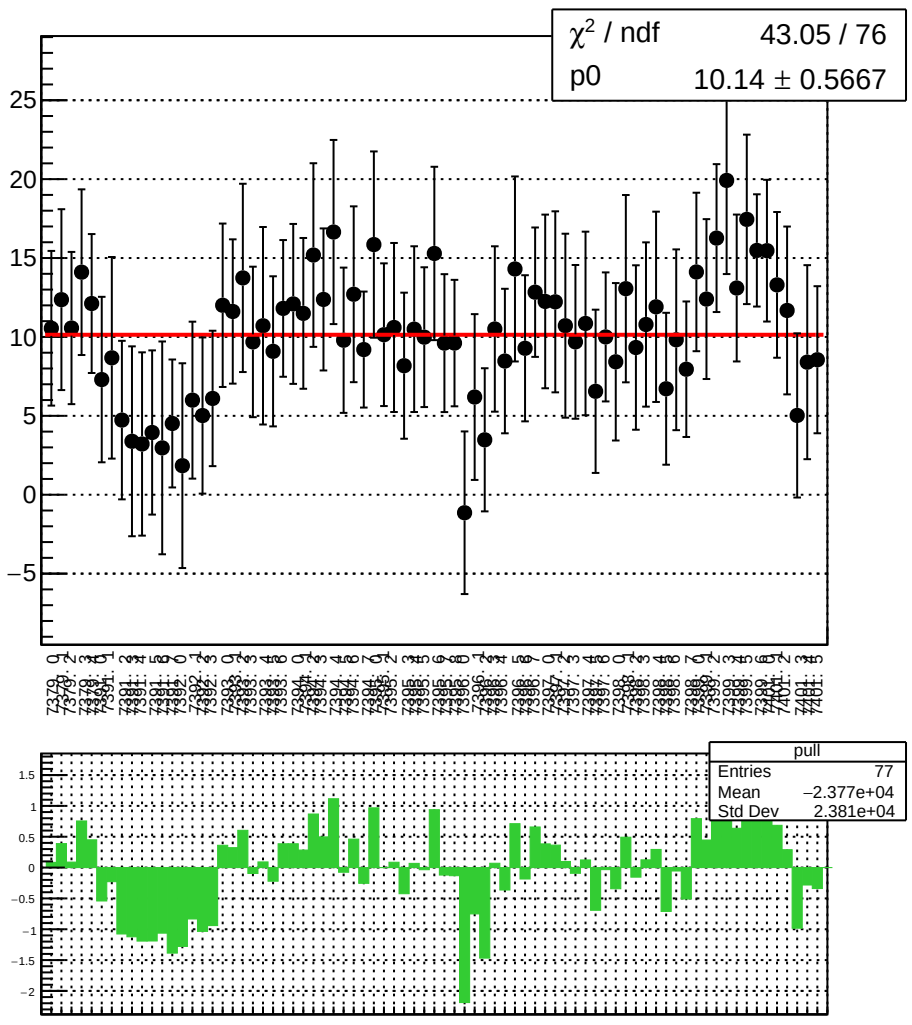

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.42 / 76
p0 −3.402 ± 0.1834
pull
Entries 77
Mean 454.8
Std Dev 417.8
pull1D
Entries 77
Mean −0.009892
Std Dev 0.5631

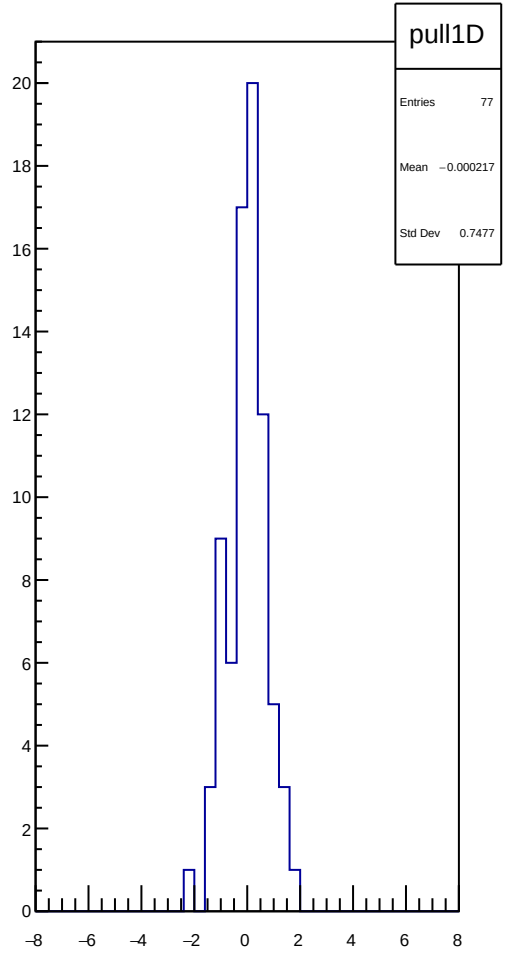

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 114.5 / 76
p0 21.95 ± 0.181
pull
Entries 77
Mean −25.43
Std Dev 49.29
pull1D
Entries 77
Mean 0.1375
Std Dev 1.212

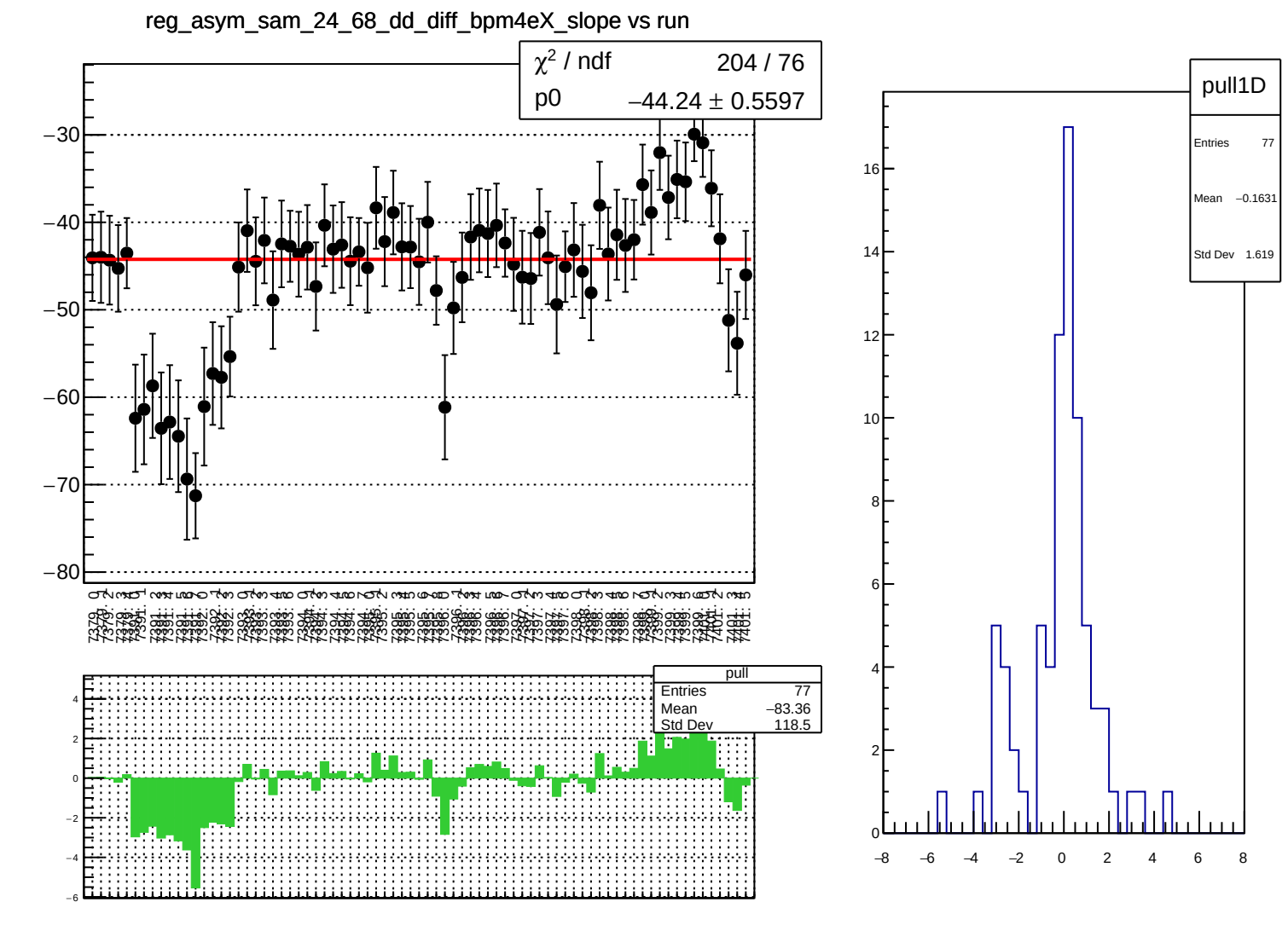

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 59 / 76
p0 26.62 ± 0.1956
pull
Entries 77
Mean 91.55
Std Dev 28.42
pull1D
Entries 77
Mean 0.05709
Std Dev 0.8735

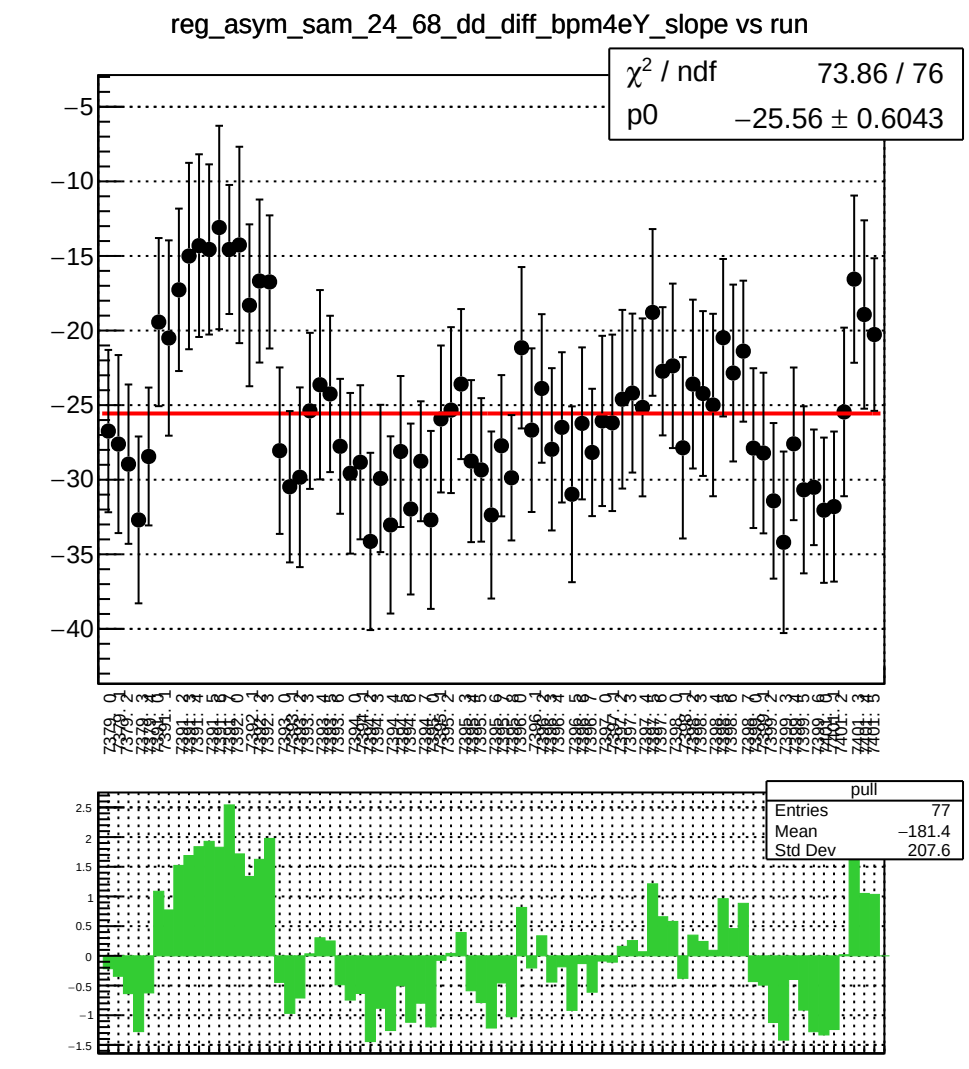

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 9.149 / 76
p0 −0.09042 ± 0.008883
pull
Entries 77
Mean 271.7
Std Dev 224.2
pull1D
Entries 77
Mean −0.003958
Std Dev 0.3447

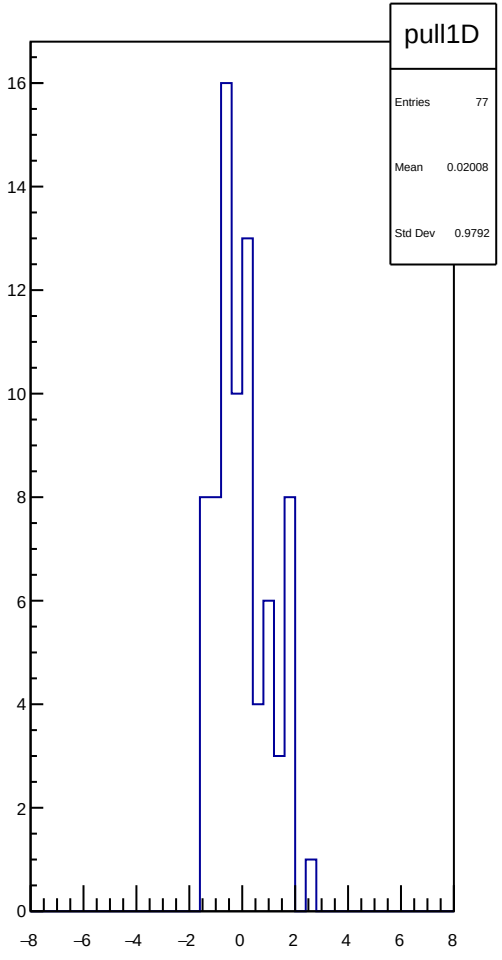

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 154.6 / 76
p0 −50.35 ± 0.5393
pull
Entries 77
Mean −109
Std Dev 147.6
pull1D
Entries 77
Mean 0.1241
Std Dev 1.411

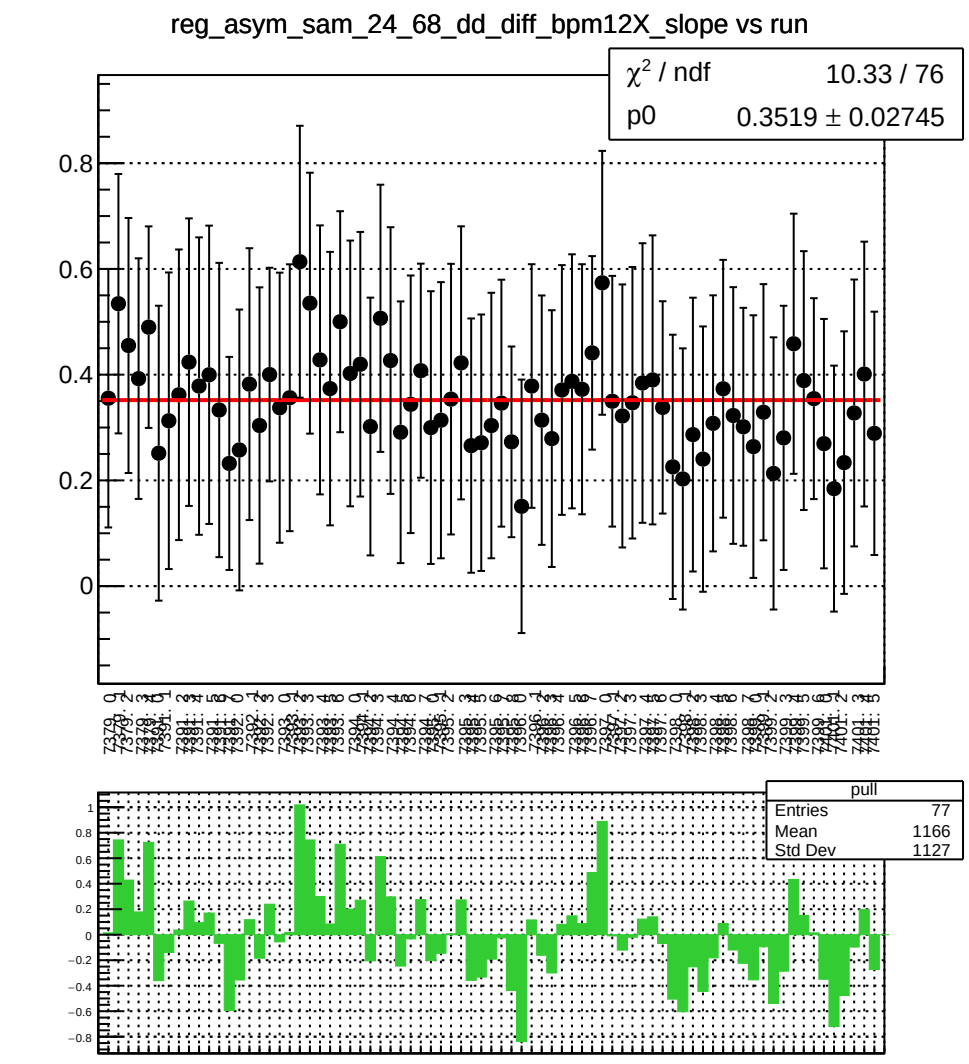

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.05 / 76
p0 10.14 ± 0.5667
pull
Entries 77
Mean −2.377e+04
Std Dev 2.381e+04

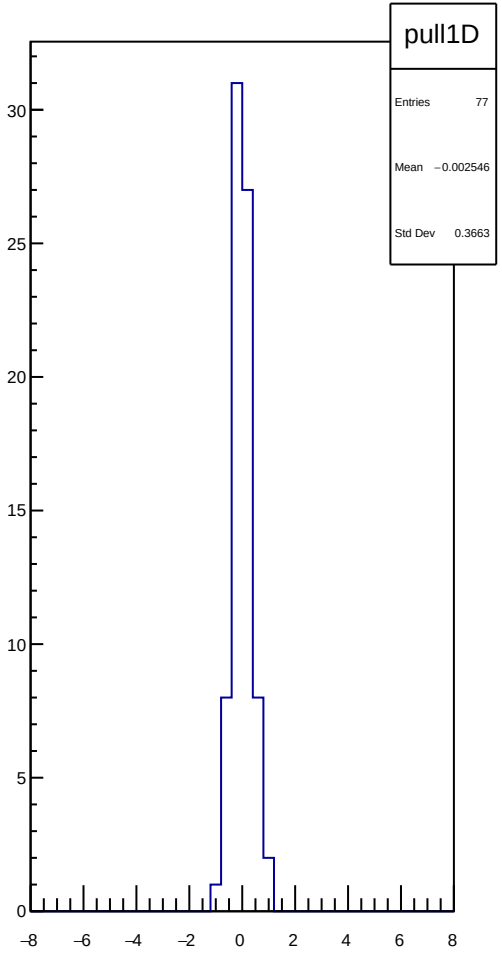

pull1D
Entries 77
Mean −0.000217
Std Dev 0.7477

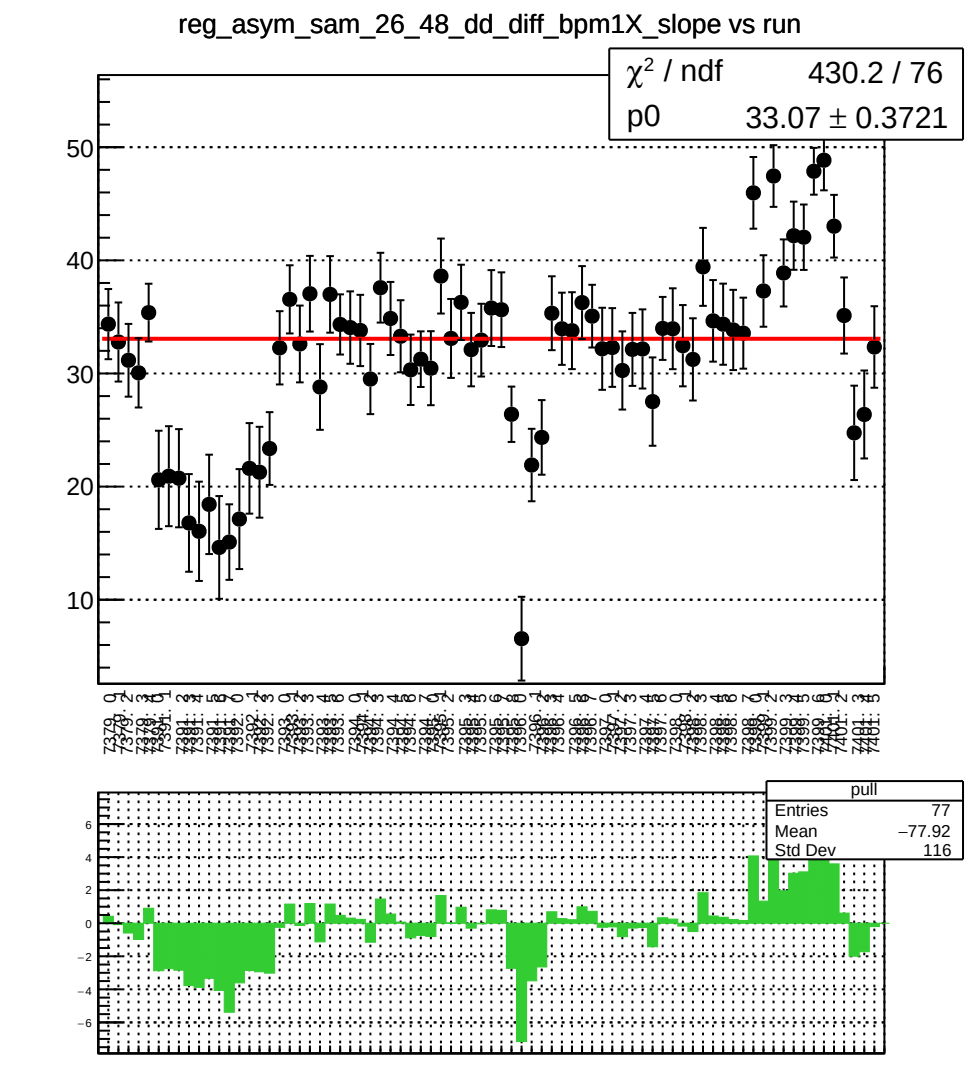

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 204 / 76
p0 −44.24 ± 0.5597
pull
Entries 77
Mean −83.36
Std Dev 118.5
pull1D
Entries 77
Mean −0.1631
Std Dev 1.619

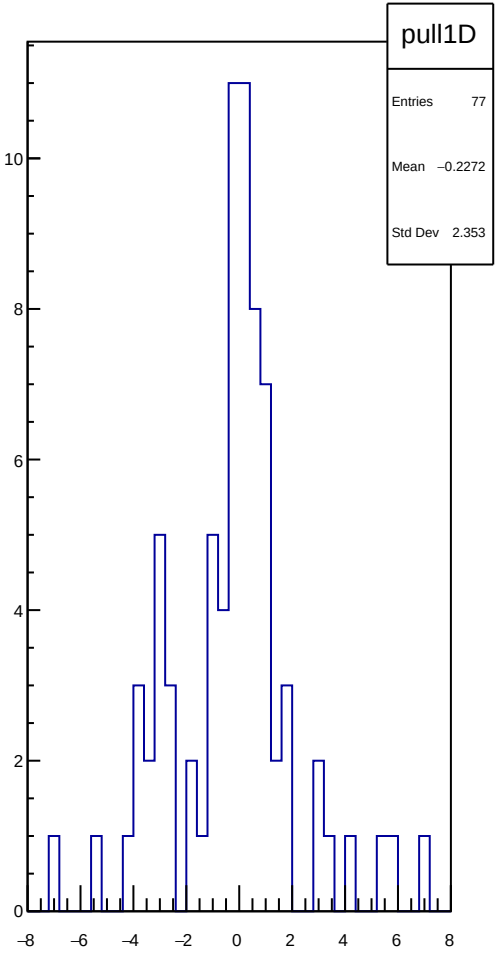

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.86 / 76
p0 −25.56 ± 0.6043
pull
Entries 77
Mean −181.4
Std Dev 207.6

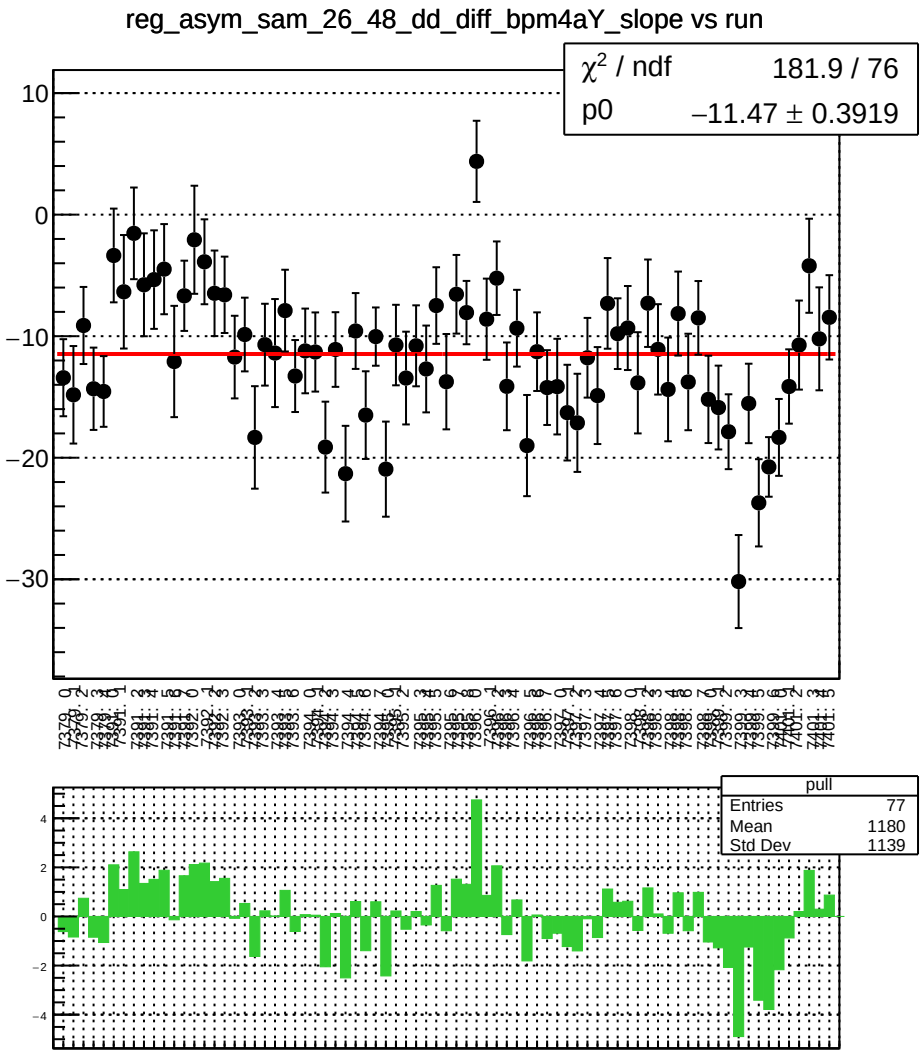

pull1D
Entries 77
Mean 0.02008
Std Dev 0.9792

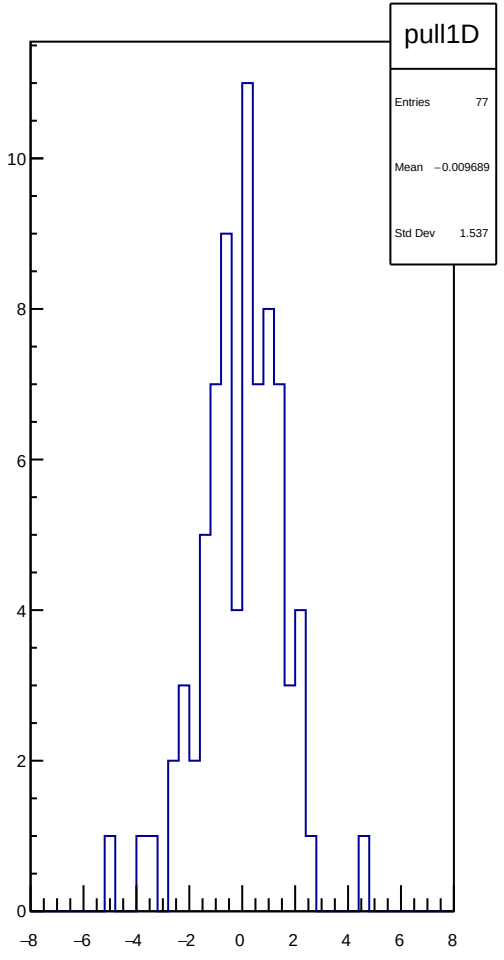

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 10.33 / 76
p0 0.3519 ± 0.02745
pull
Entries 77
Mean 1166
Std Dev 1127

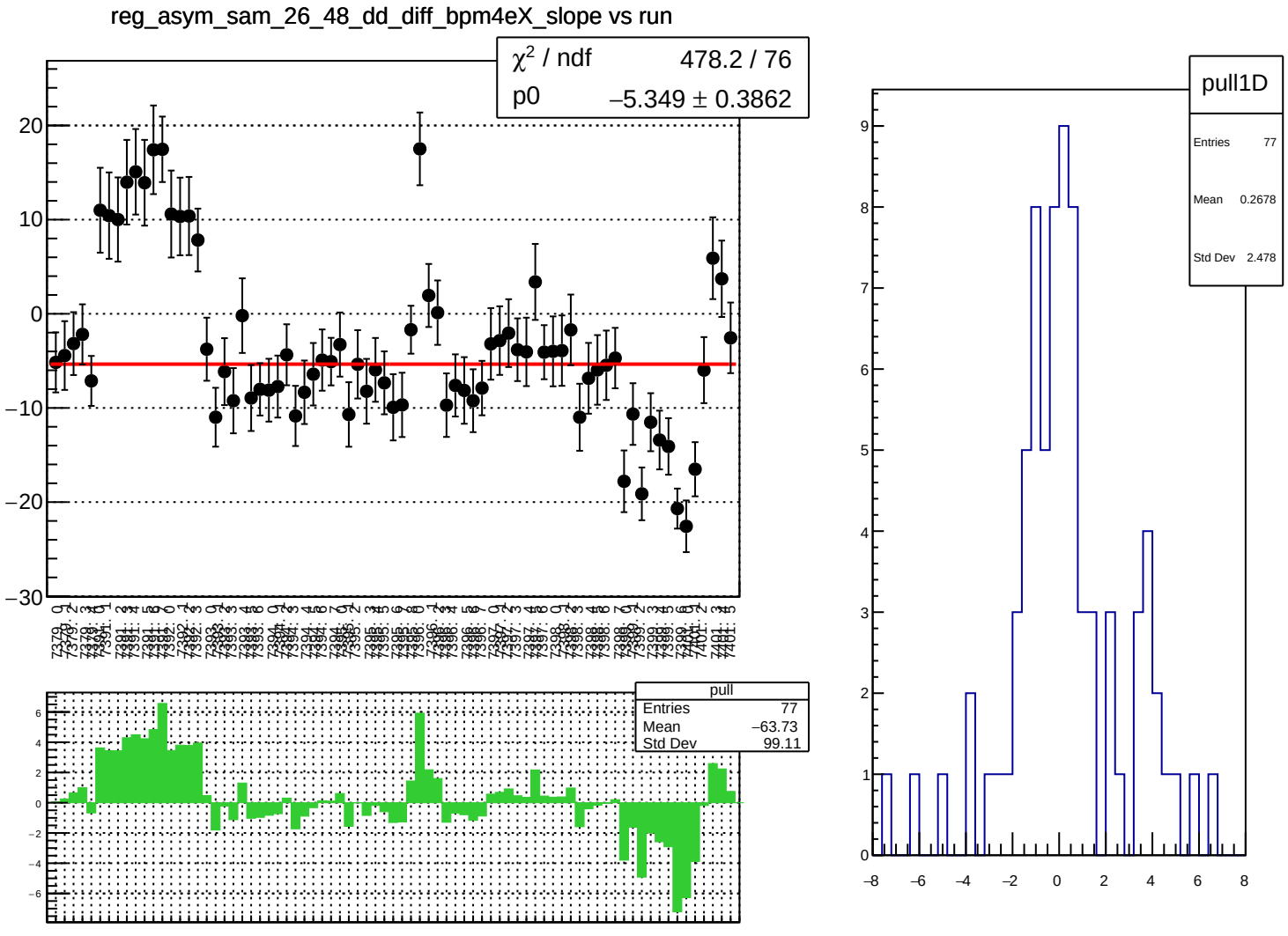

pull1D
Entries 77
Mean −0.002546
Std Dev 0.3663

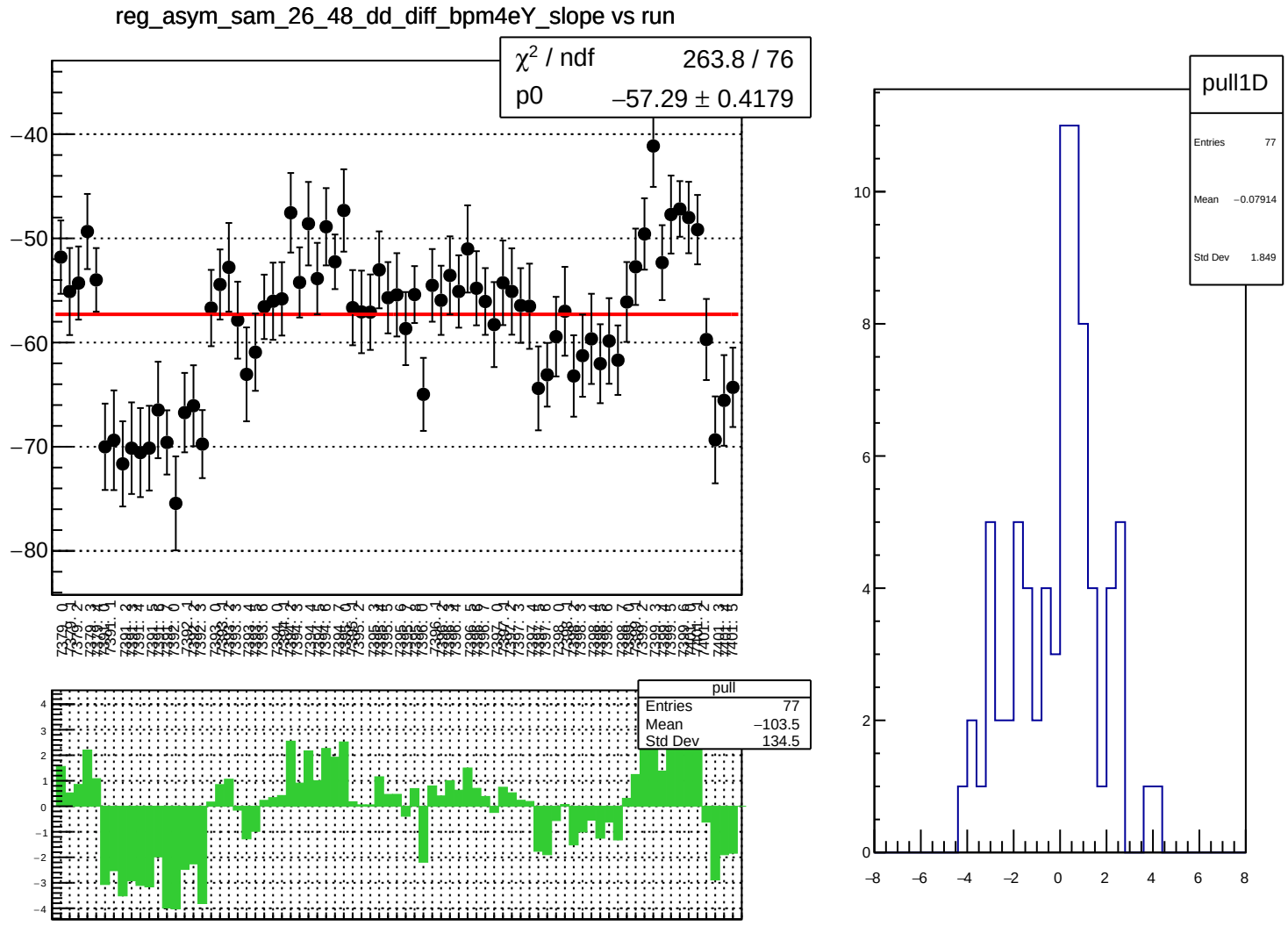

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 430.2 / 76
p0 33.07 ± 0.3721
pull
Entries 77
Mean −77.92
Std Dev 116

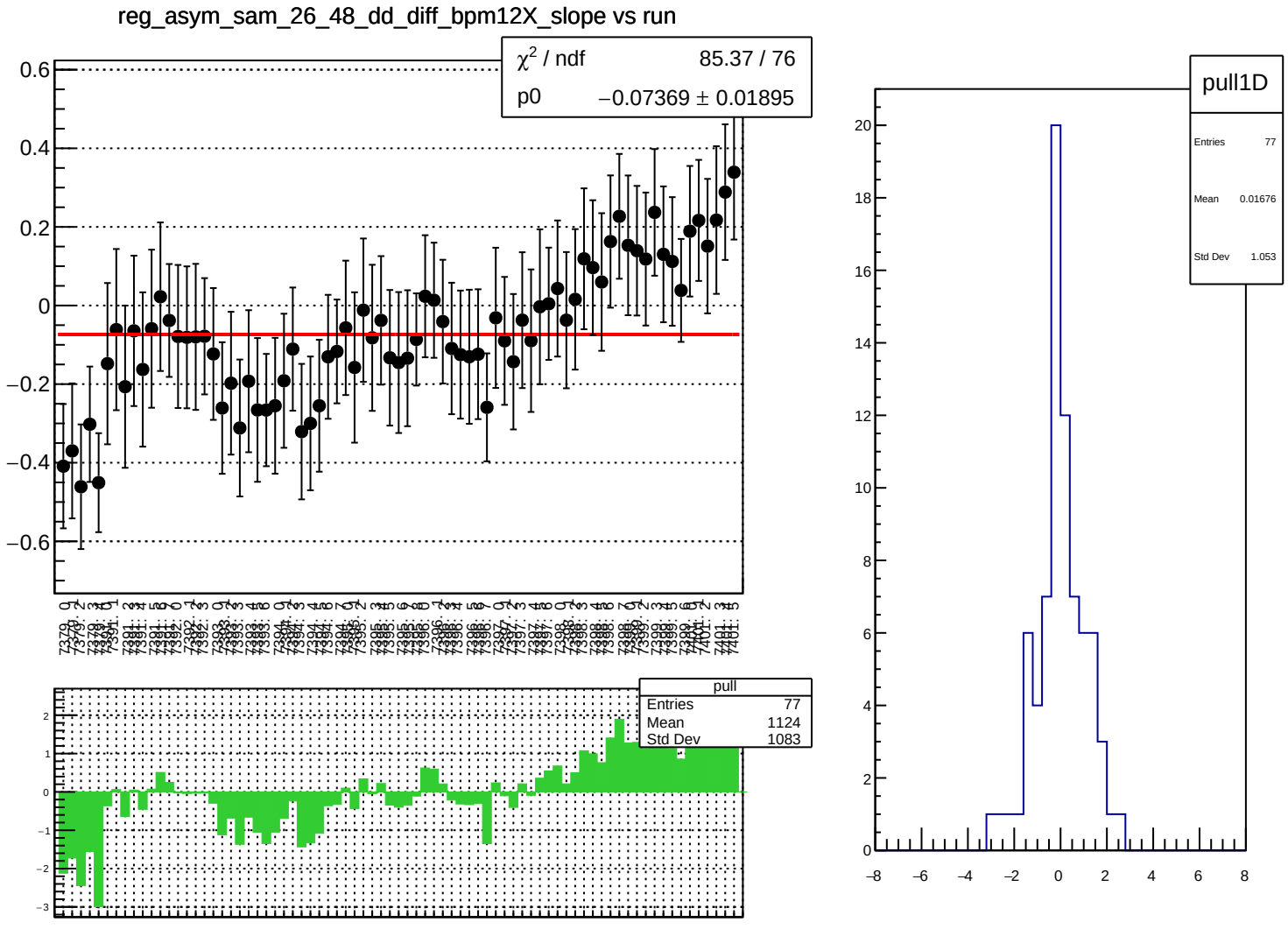

pull1D
Entries 77
Mean −0.2272
Std Dev 2.353

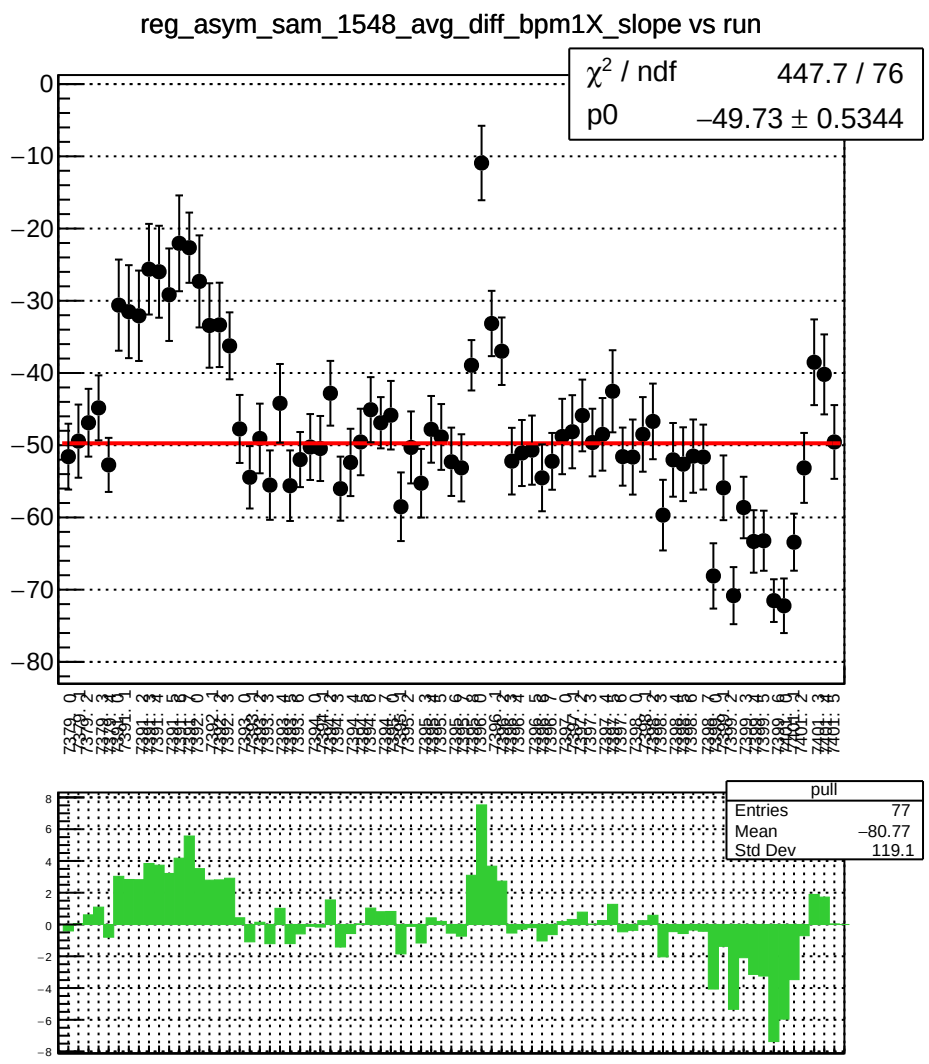

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 181.9 / 76
p0 −11.47 ± 0.3919
pull
Entries 77
Mean 1180
Std Dev 1139

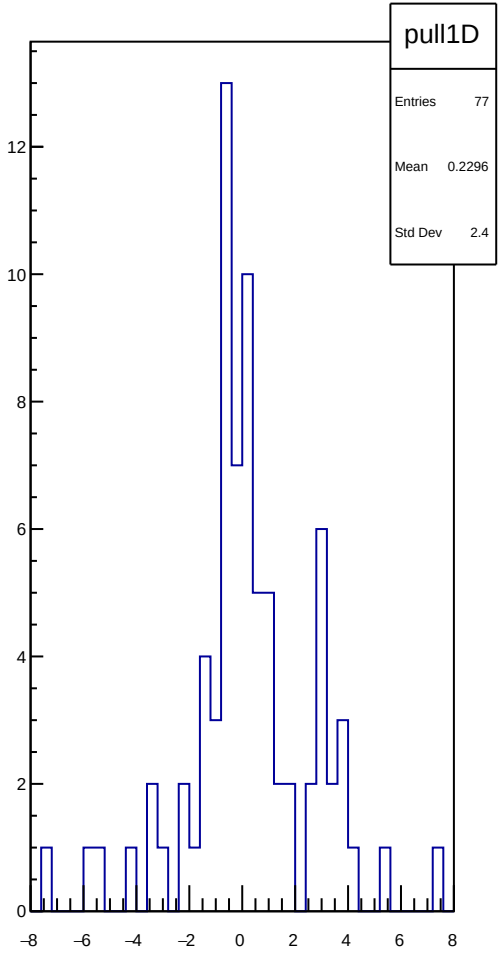

pull1D
Entries 77
Mean −0.009689
Std Dev 1.537

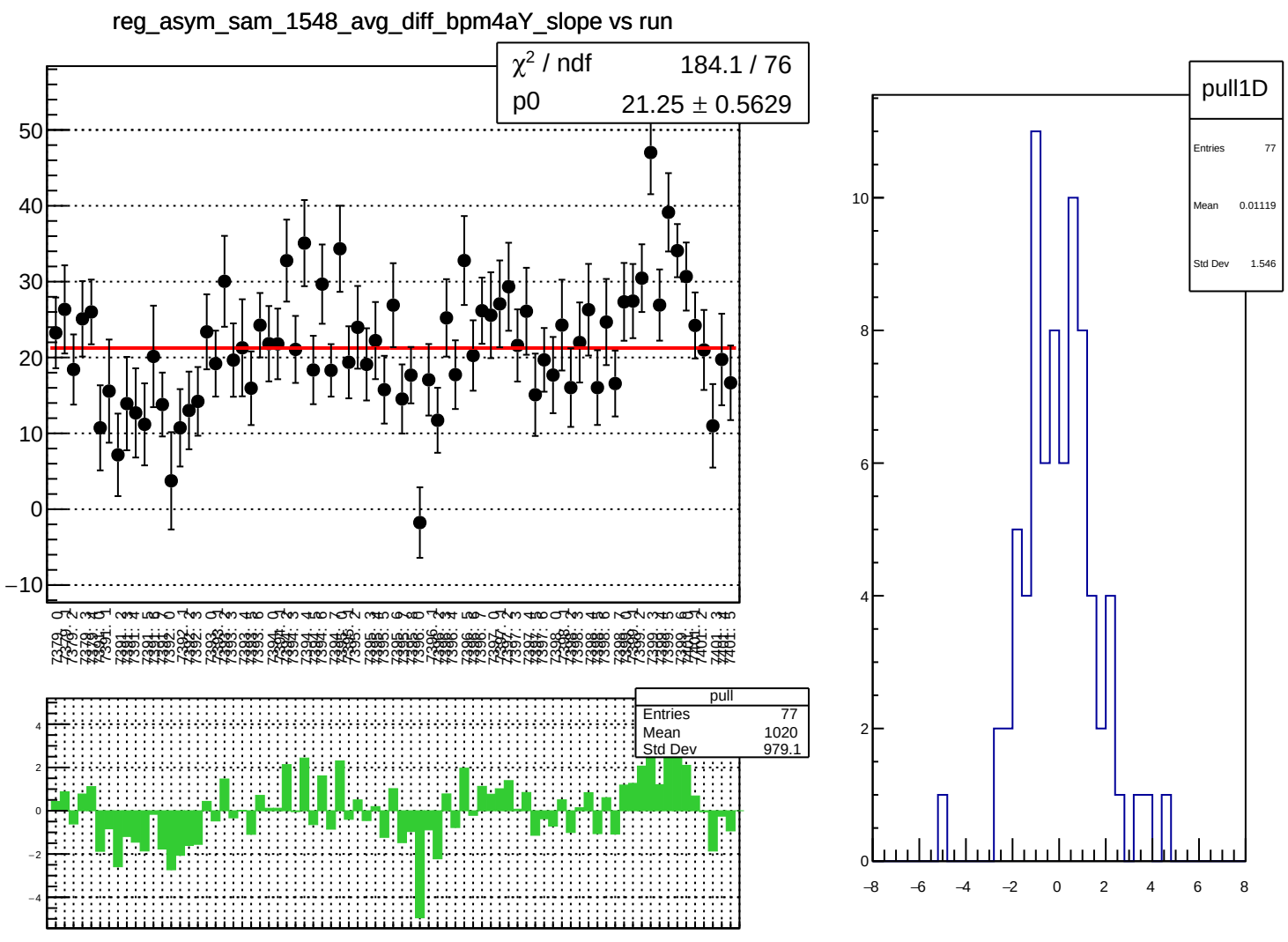

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 478.2 / 76
p0 −5.349 ± 0.3862
pull
Entries 77
Mean −63.73
Std Dev 99.11
pull1D
Entries 77
Mean 0.2678
Std Dev 2.478

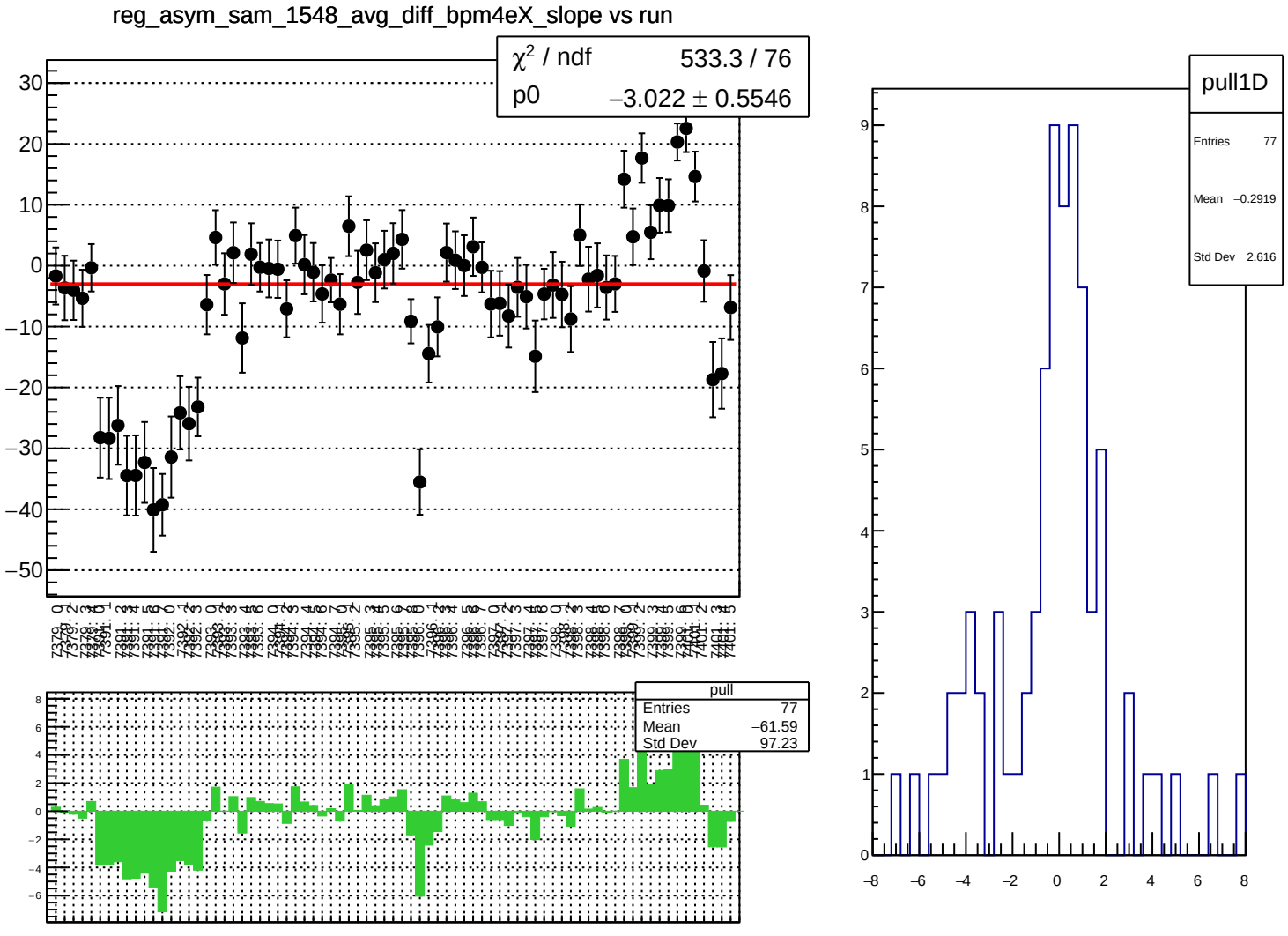

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 263.8 / 76
p0 −57.29 ± 0.4179
−40
−50
−60
−70
−80
pull
Entries 77
Mean −103.5
Std Dev 134.5
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 77
Mean −0.07914
Std Dev 1.849
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

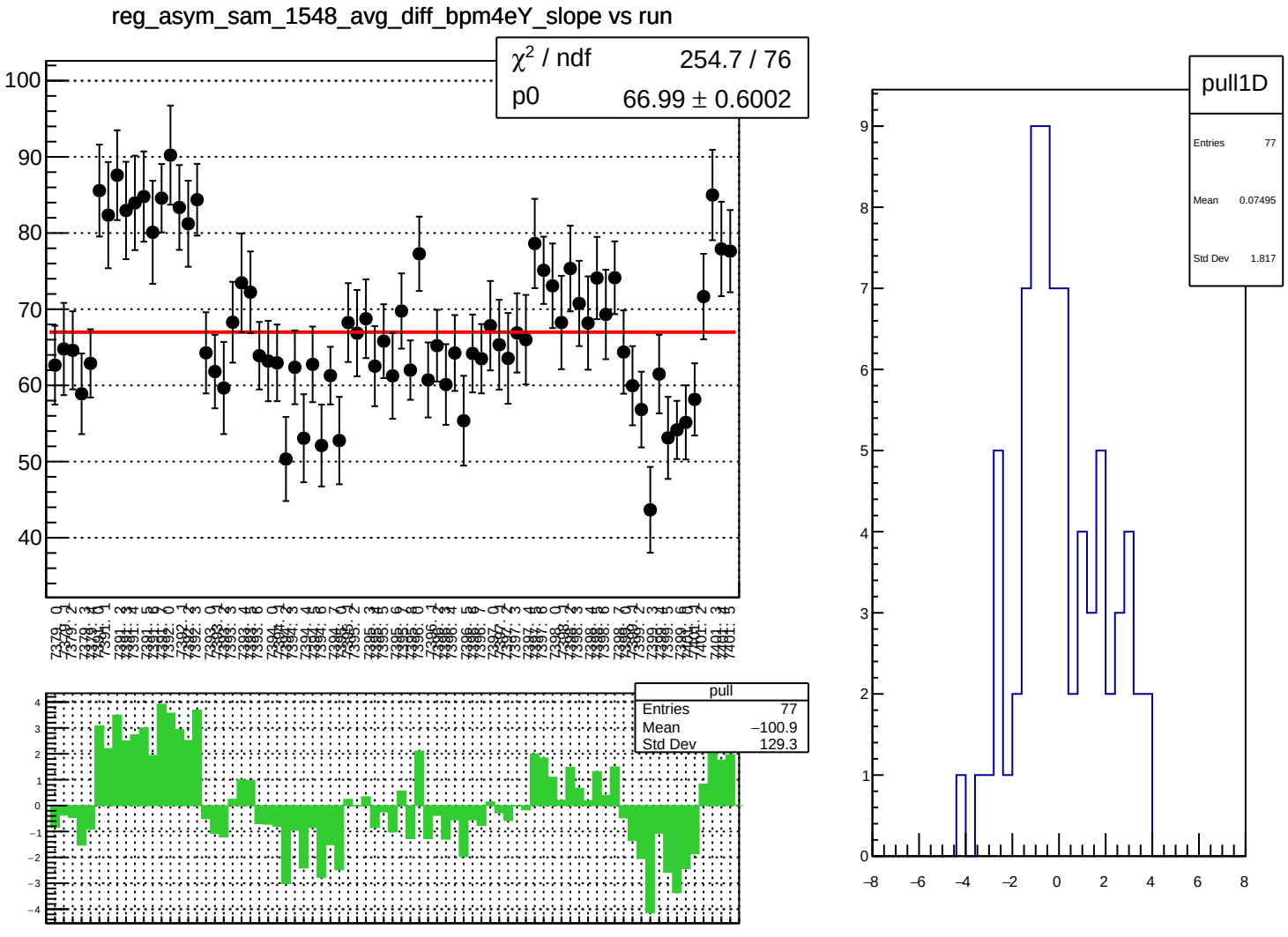

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 85.37 / 76
p0 −0.07369 ± 0.01895
pull
Entries 77
Mean 1124
Std Dev 1083
pull1D
Entries 77
Mean 0.01676
Std Dev 1.053

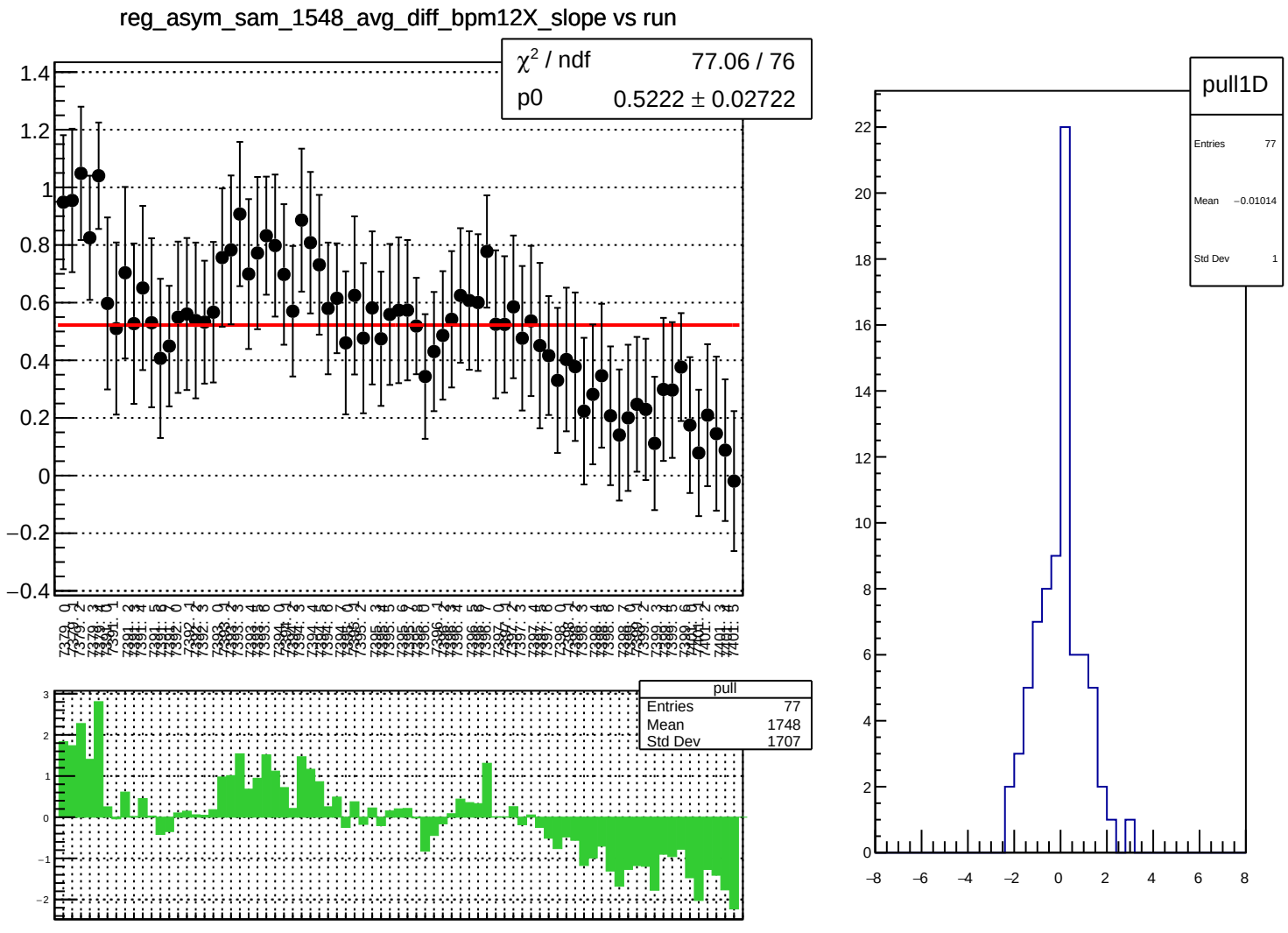

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 447.7 / 76
p0 −49.73 ± 0.5344
pull
Entries 77
Mean −80.77
Std Dev 119.1

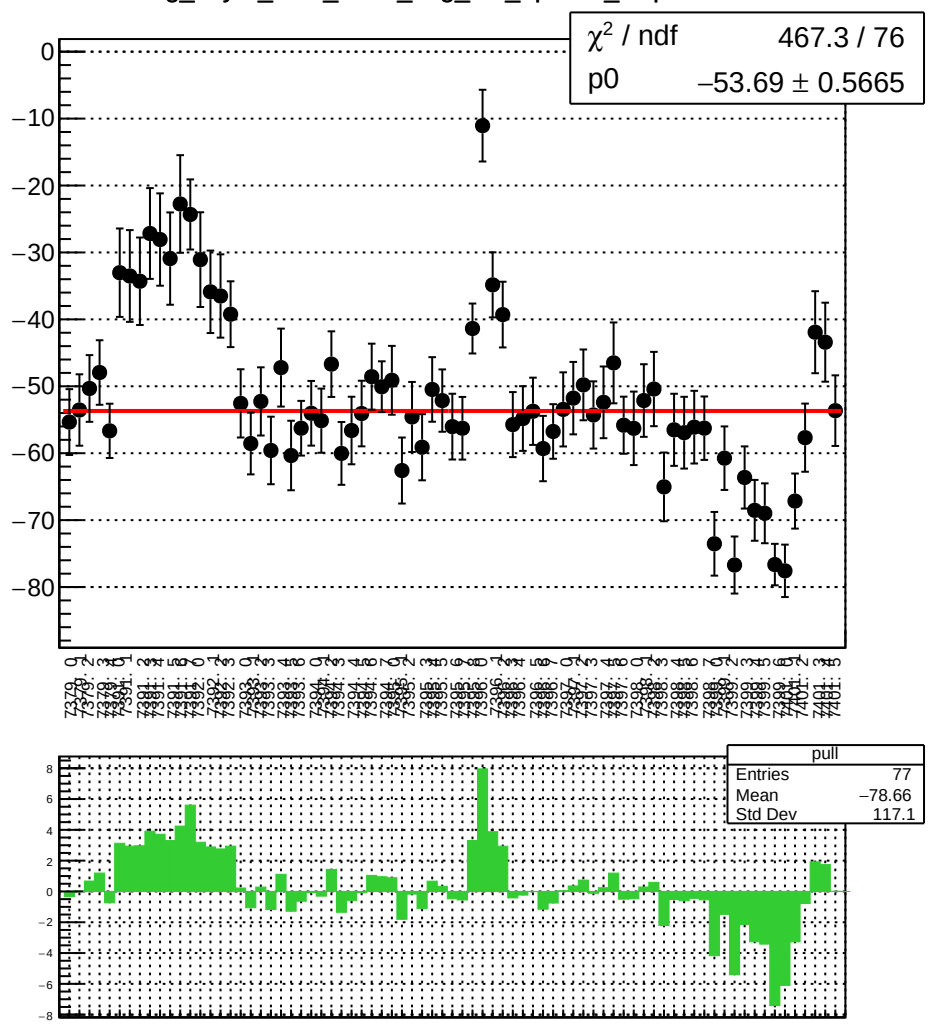

pull1D
Entries 77
Mean 0.2296
Std Dev 2.4

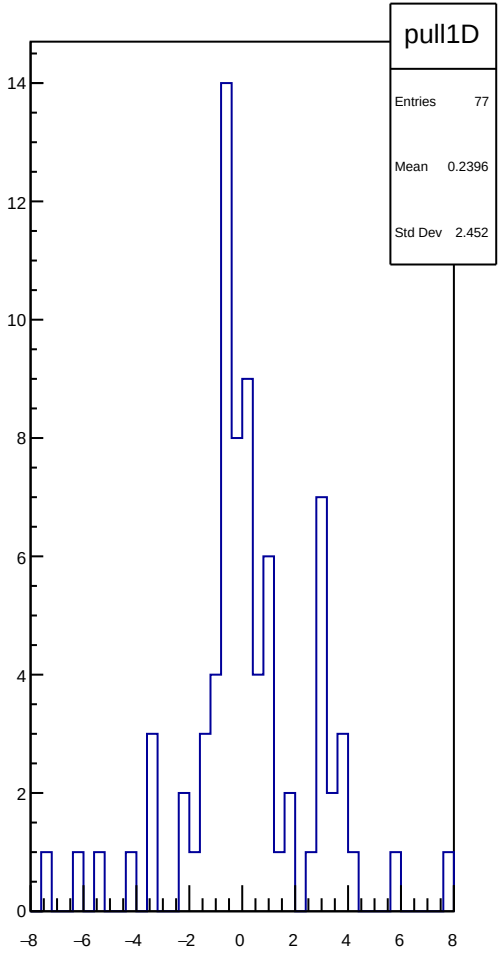

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 184.1 / 76
p0 21.25 ± 0.5629
pull
Entries 77
Mean 1020
Std Dev 979.1
pull1D
Entries 77
Mean 0.01119
Std Dev 1.546

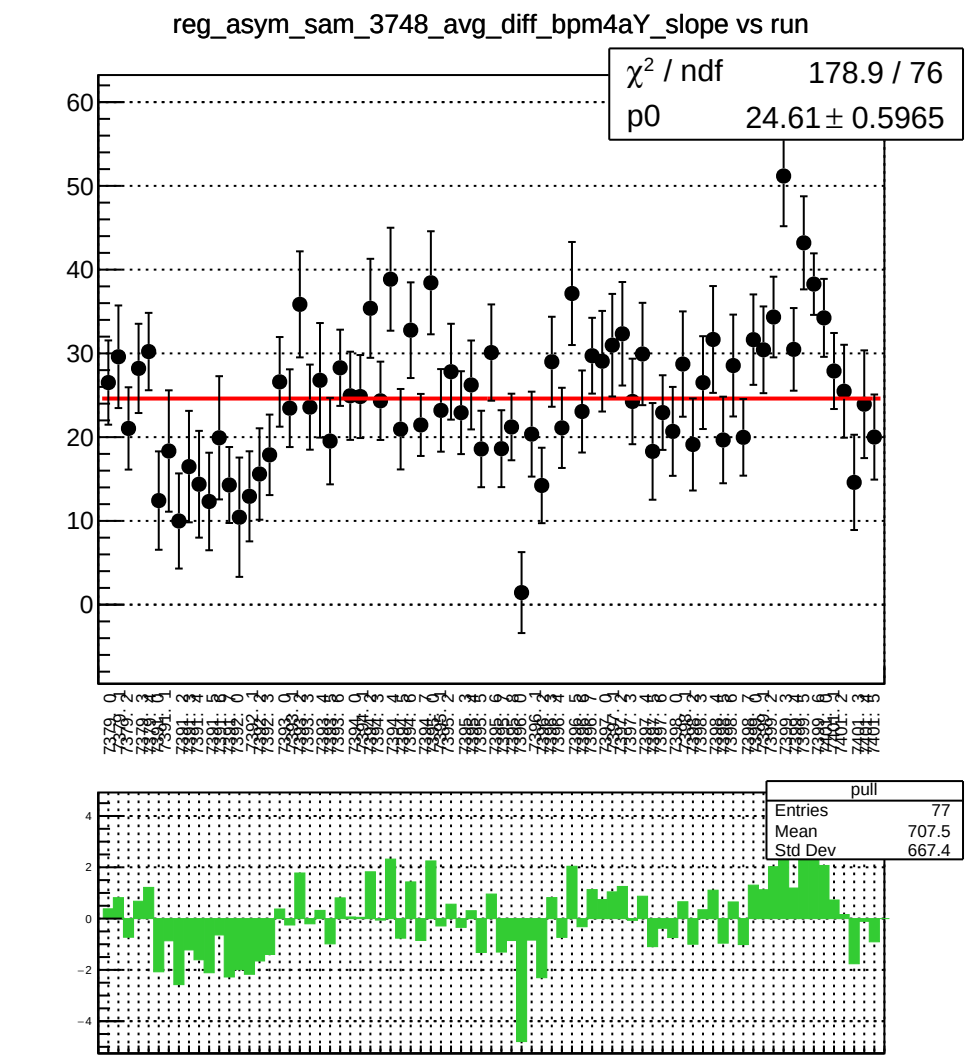

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 533.3 / 76
p0 −3.022 ± 0.5546
pull
Entries 77
Mean −61.59
Std Dev 97.23
pull1D
Entries 77
Mean −0.2919
Std Dev 2.616

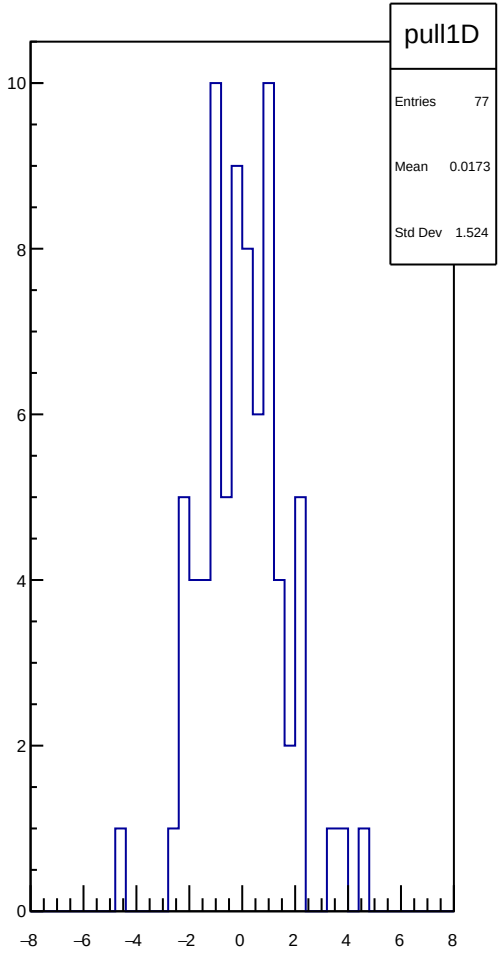

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 254.7 / 76
p0 66.99 ± 0.6002
pull
Entries 77
Mean −100.9
Std Dev 129.3
pull1D
Entries 77
Mean 0.07495
Std Dev 1.817

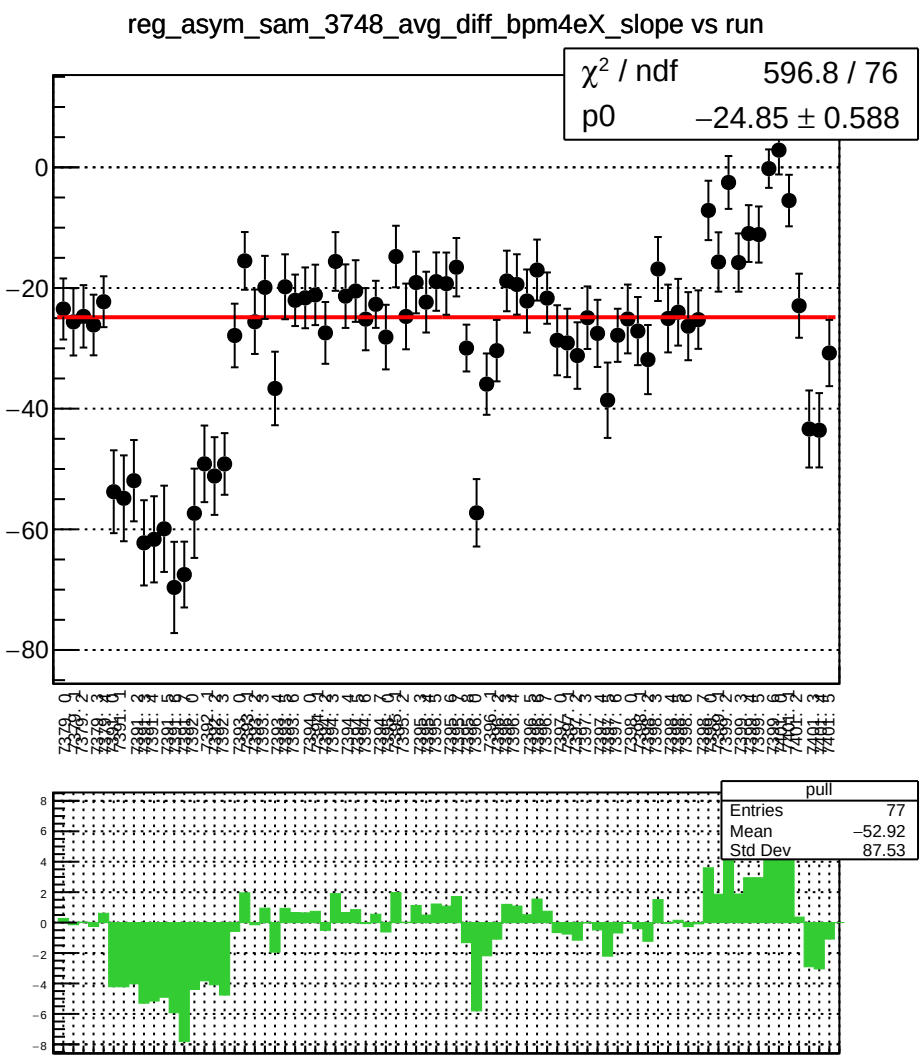

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 77.06 / 76
p0 0.5222 ± 0.02722
pull
Entries 77
Mean 1748
Std Dev 1707
pull1D
Entries 77
Mean −0.01014
Std Dev 1

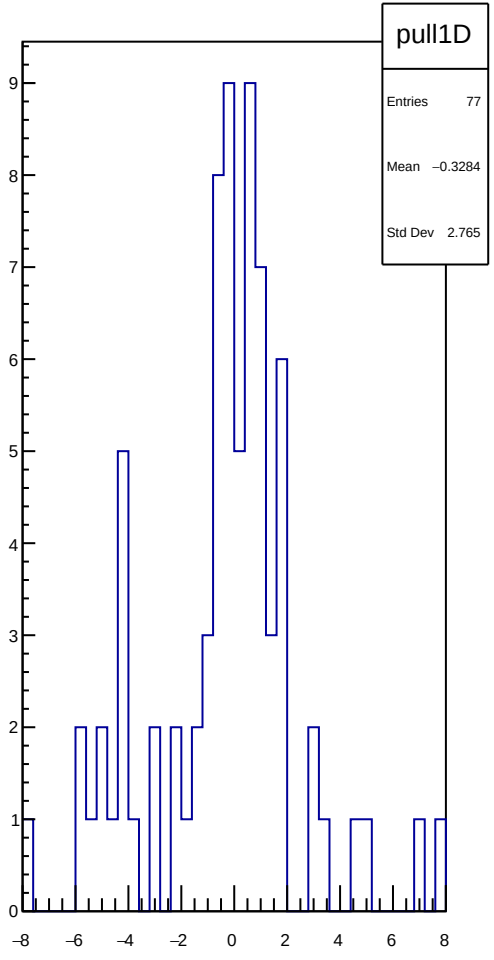

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 467.3 / 76
p0 −53.69 ± 0.5665
pull
Entries 77
Mean −78.66
Std Dev 117.1

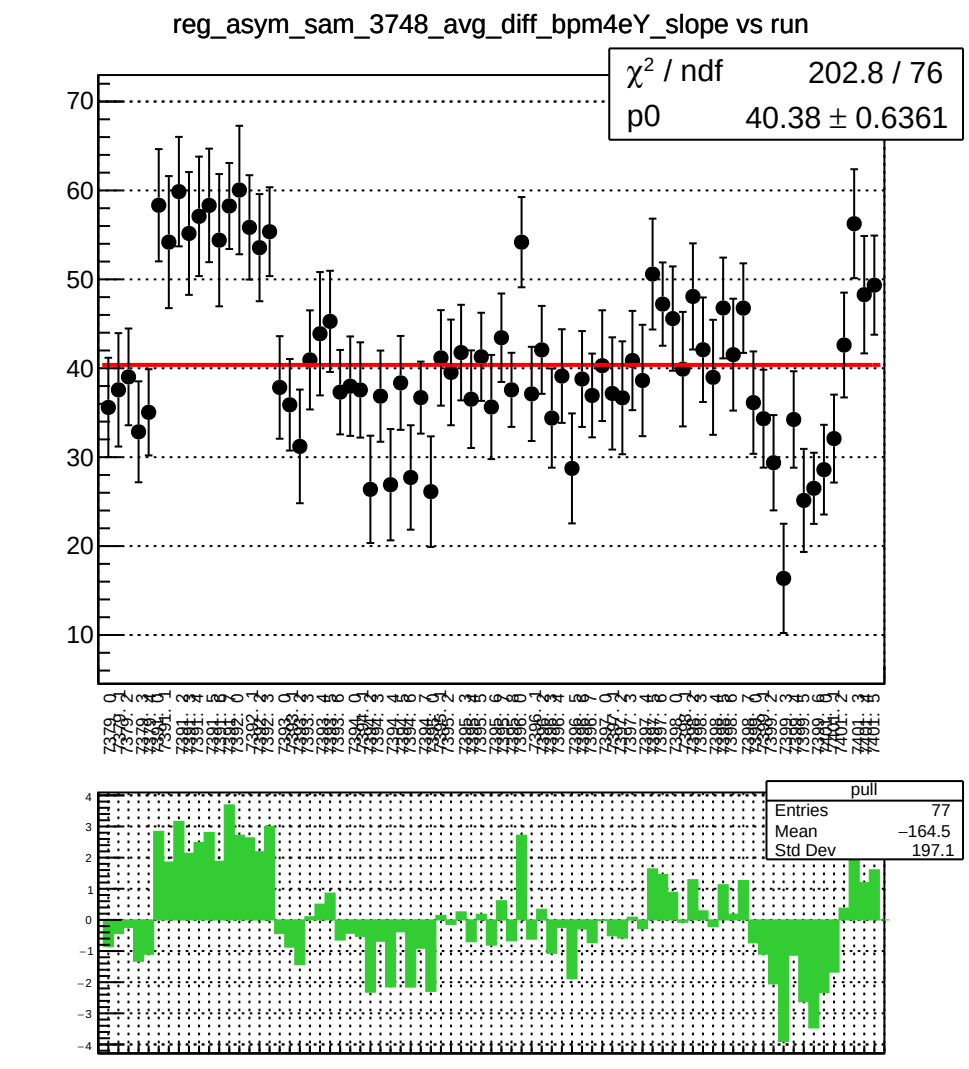

pull1D
Entries 77
Mean 0.2396
Std Dev 2.452

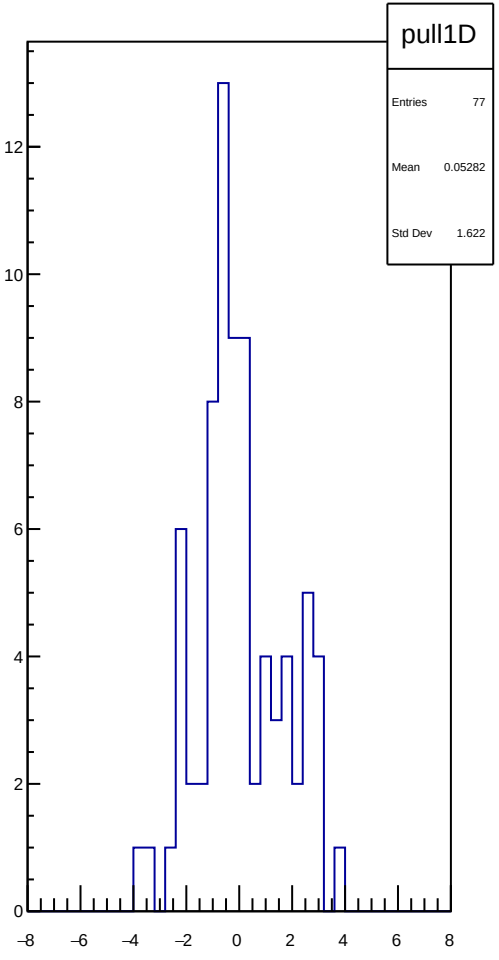

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 178.9 / 76
p0 24.61 ± 0.5965
pull
Entries 77
Mean 707.5
Std Dev 667.4

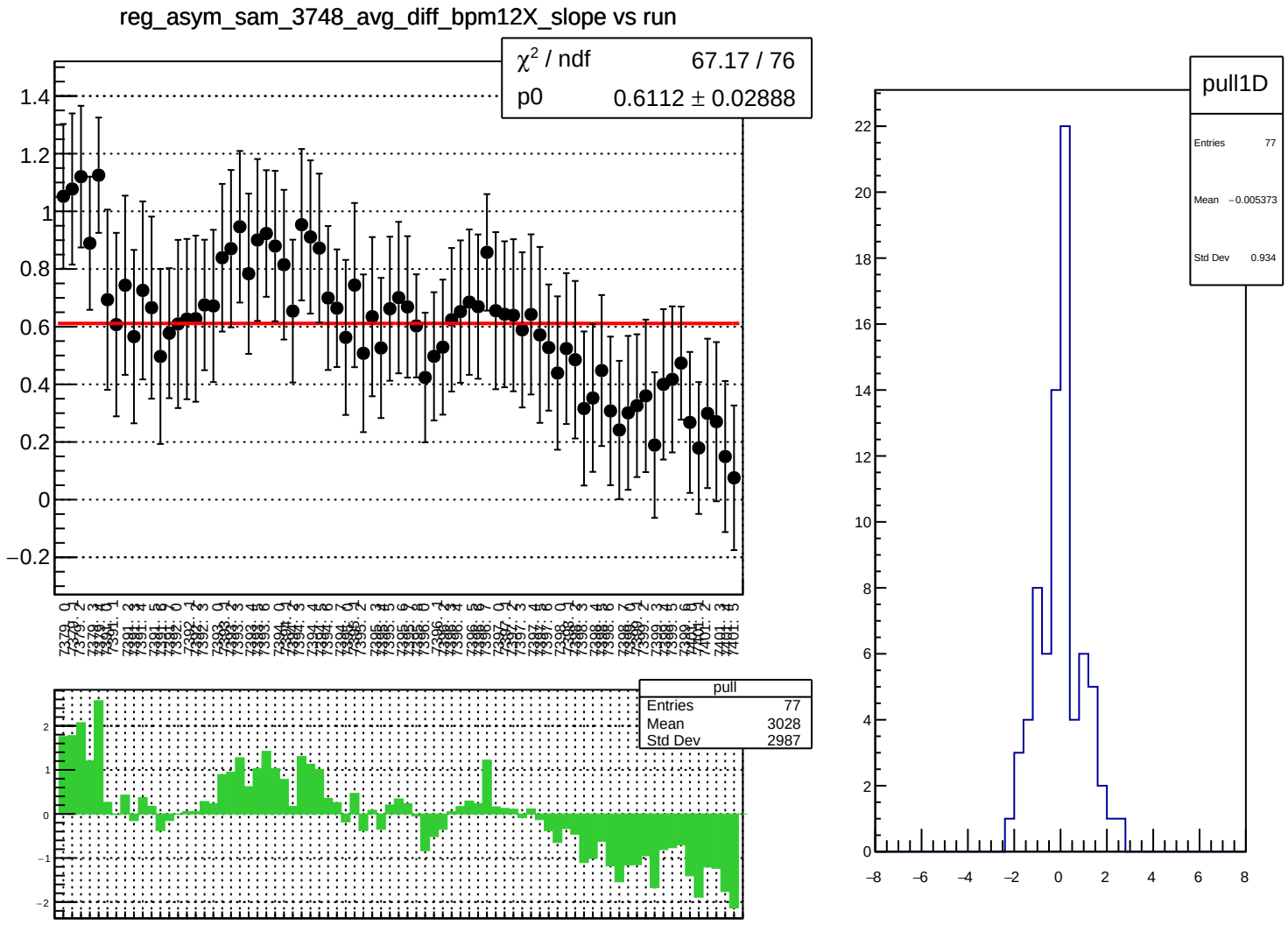

pull1D
Entries 77
Mean 0.0173
Std Dev 1.524

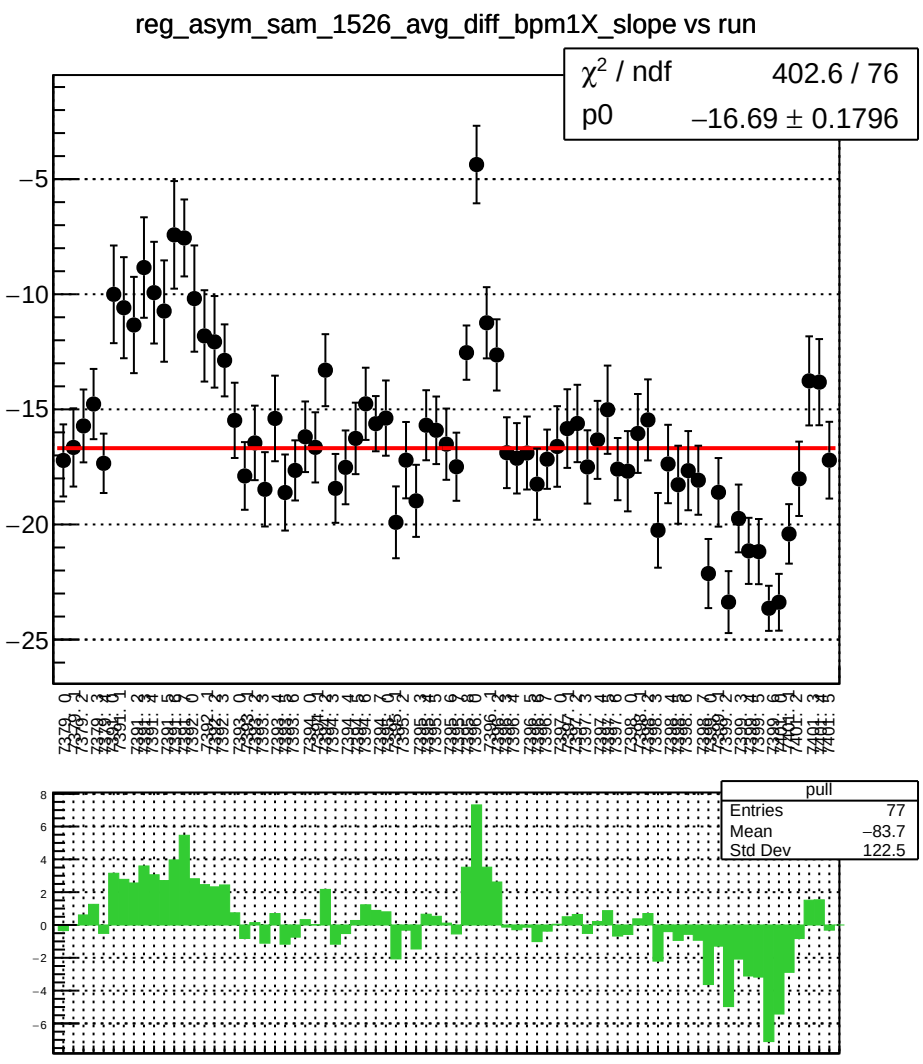

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 596.8 / 76
p0 −24.85 ± 0.588
pull
Entries 77
Mean −52.92
Std Dev 87.53

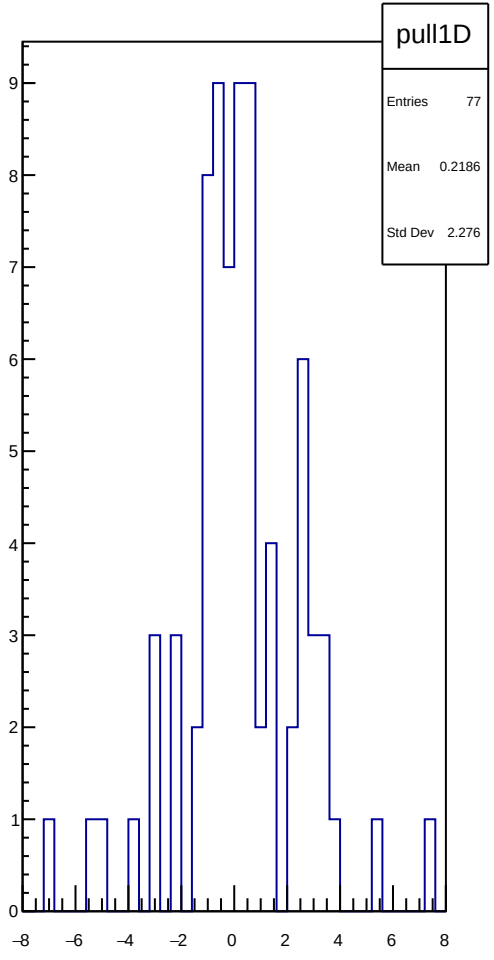

pull1D
Entries 77
Mean −0.3284
Std Dev 2.765

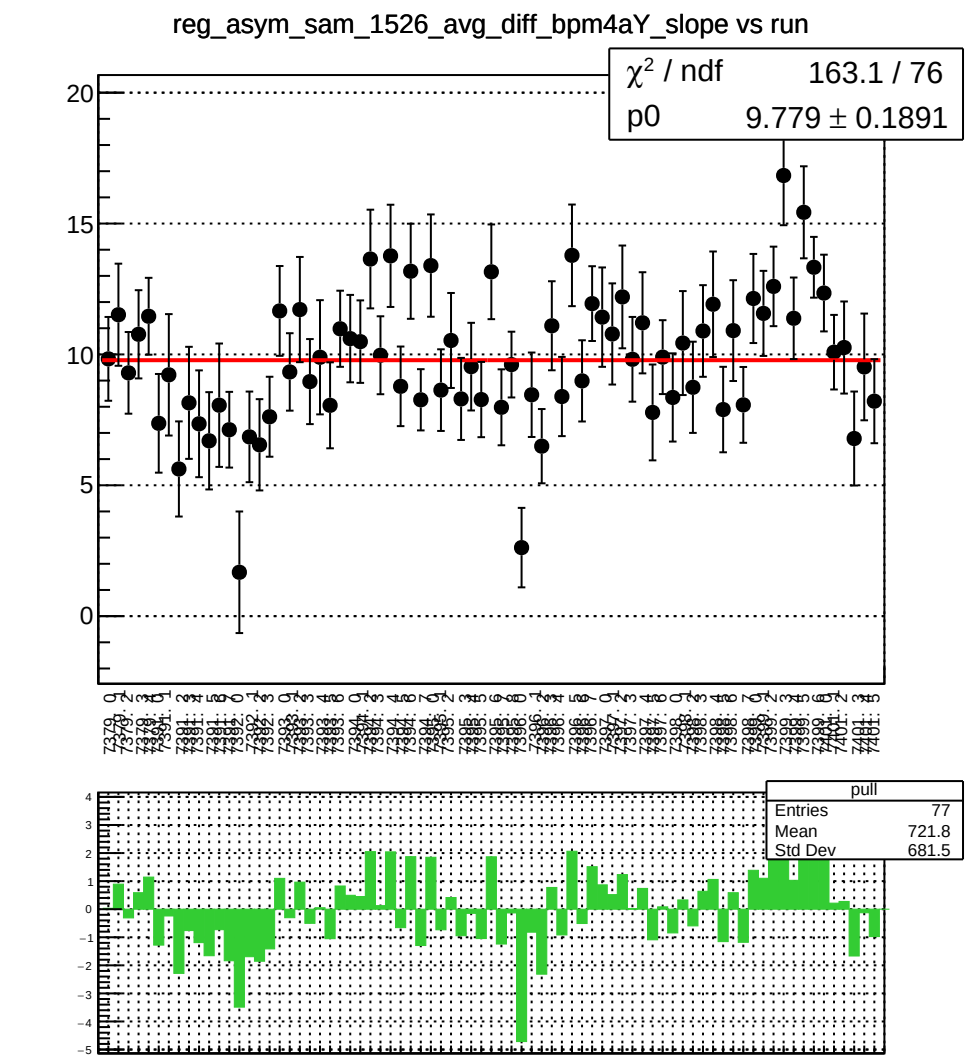

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 202.8 / 76
p0 40.38 ± 0.6361
pull
Entries 77
Mean −164.5
Std Dev 197.1

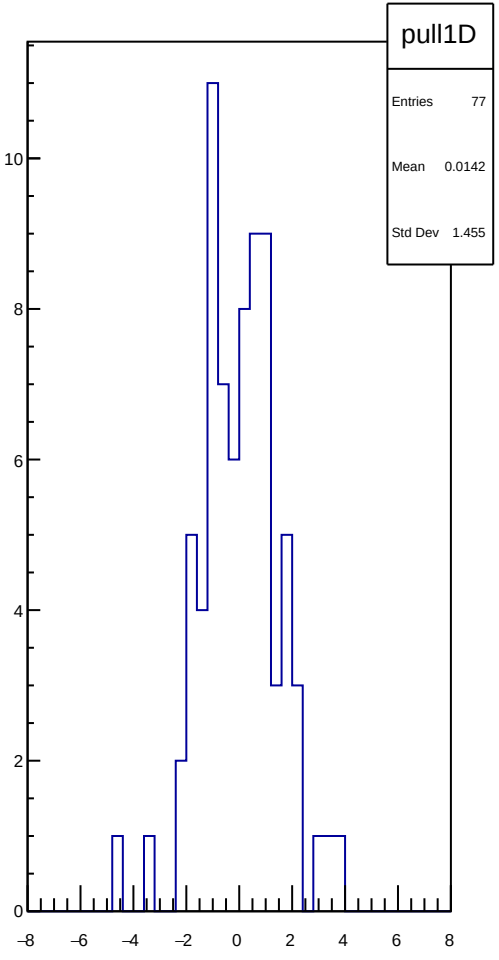

pull1D
Entries 77
Mean 0.05282
Std Dev 1.622

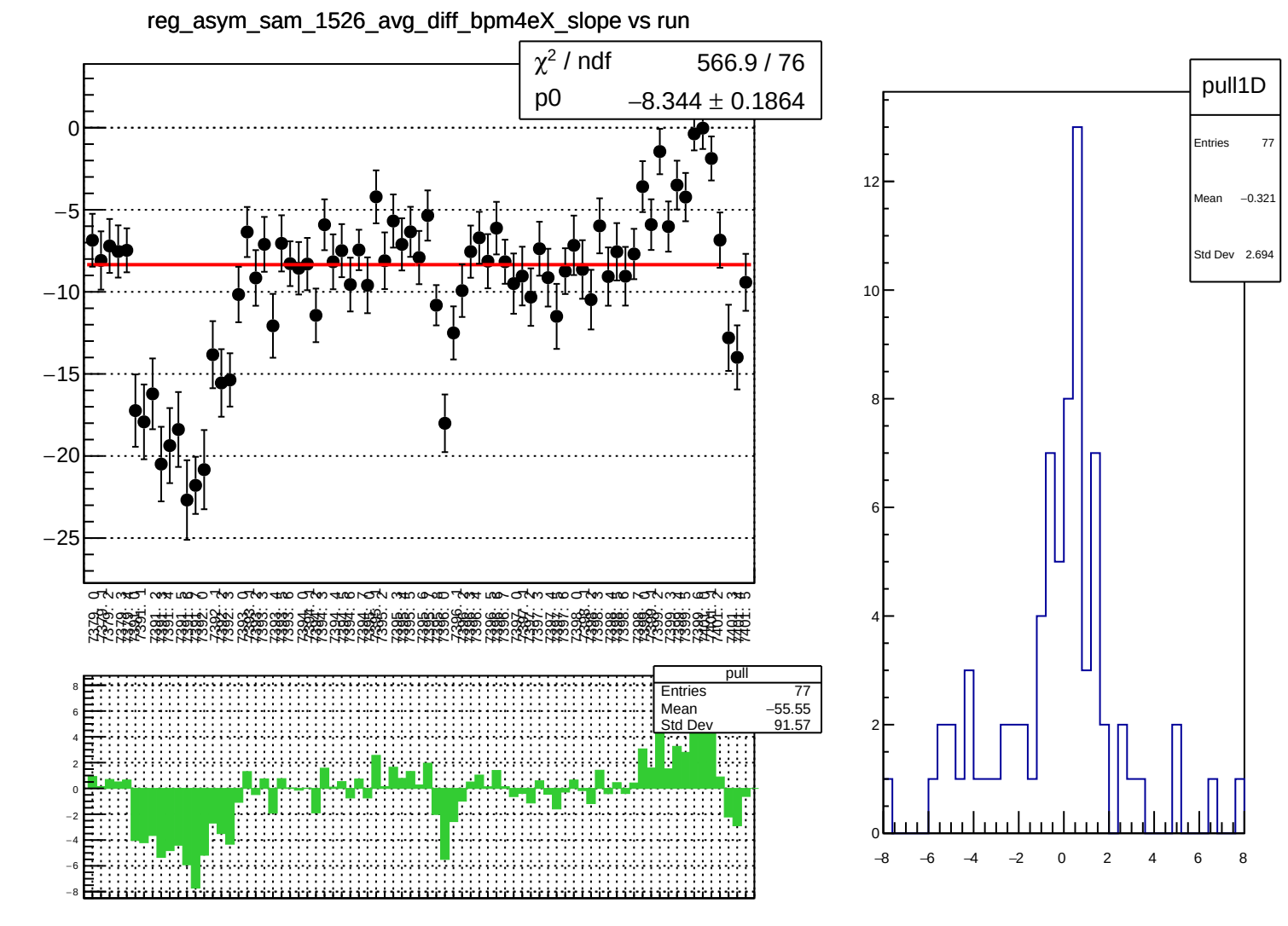

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 67.17 / 76
p0 0.6112 ± 0.02888
pull
Entries 77
Mean 3028
Std Dev 2987
pull1D
Entries 77
Mean −0.005373
Std Dev 0.934

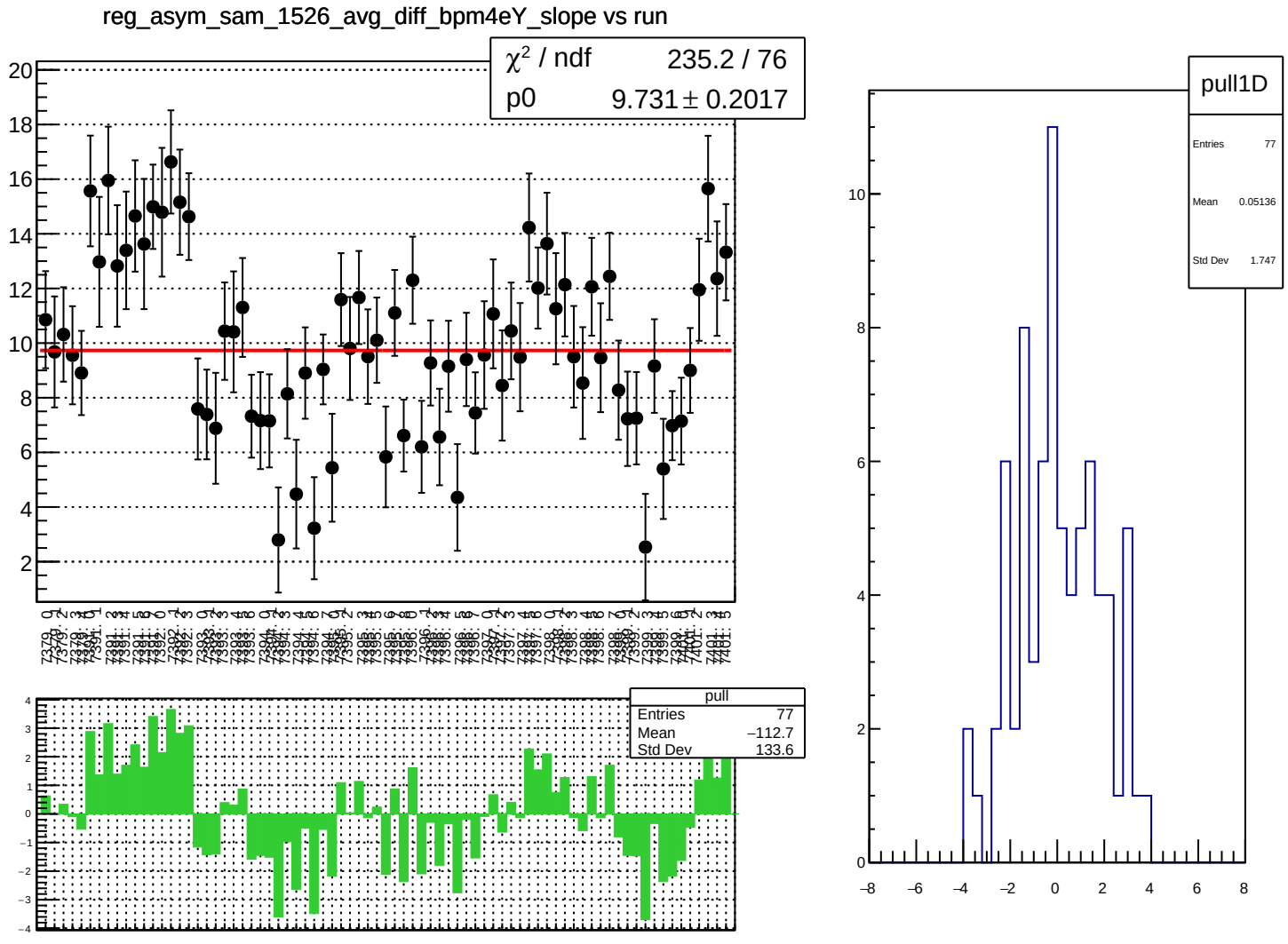

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 402.6 / 76
p0 −16.69 ± 0.1796
pull
Entries 77
Mean −83.7
Std Dev 122.5

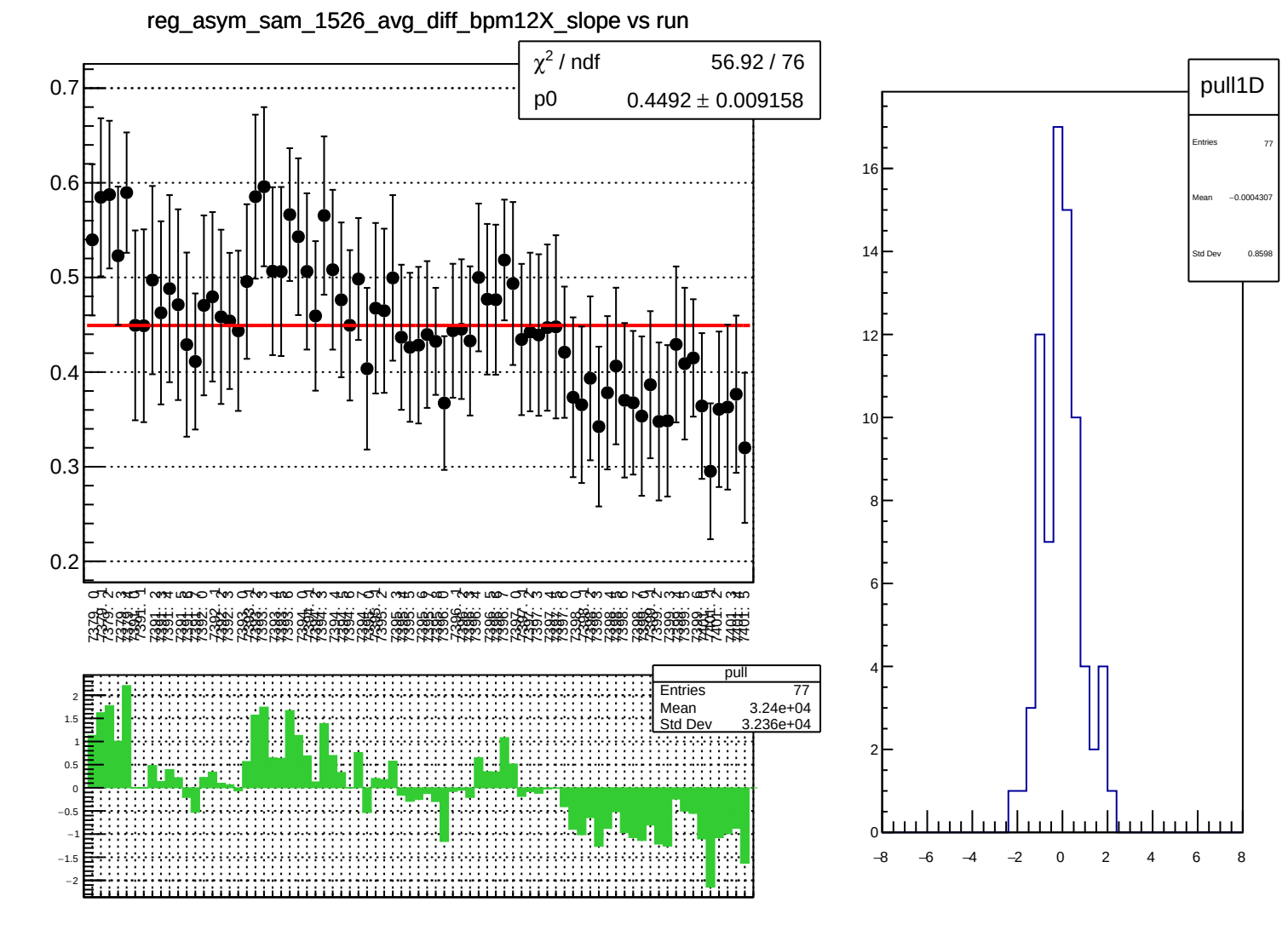

pull1D
Entries 77
Mean 0.2186
Std Dev 2.276

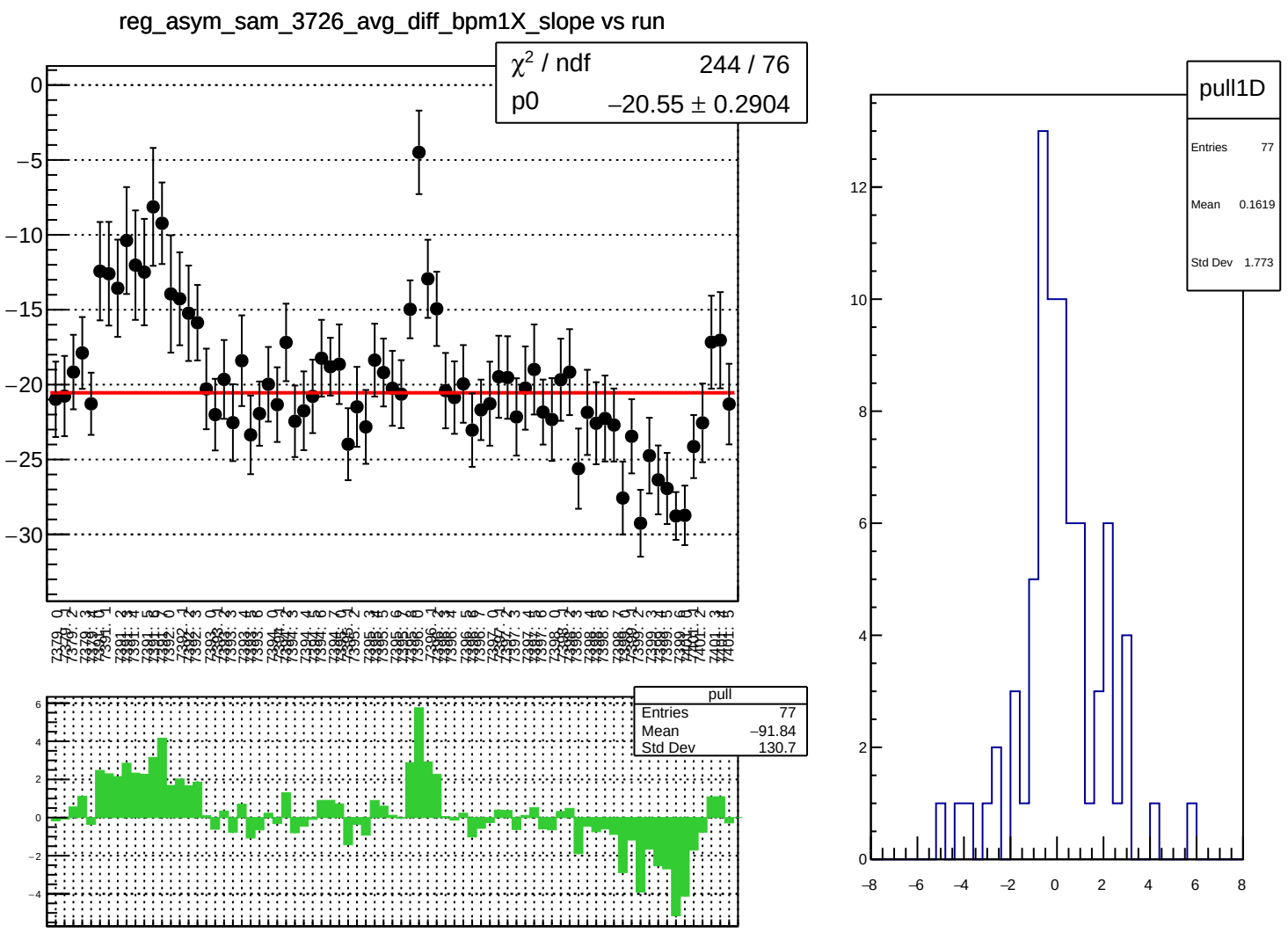

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 163.1 / 76
p0 9.779 ± 0.1891
pull
Entries 77
Mean 721.8
Std Dev 681.5

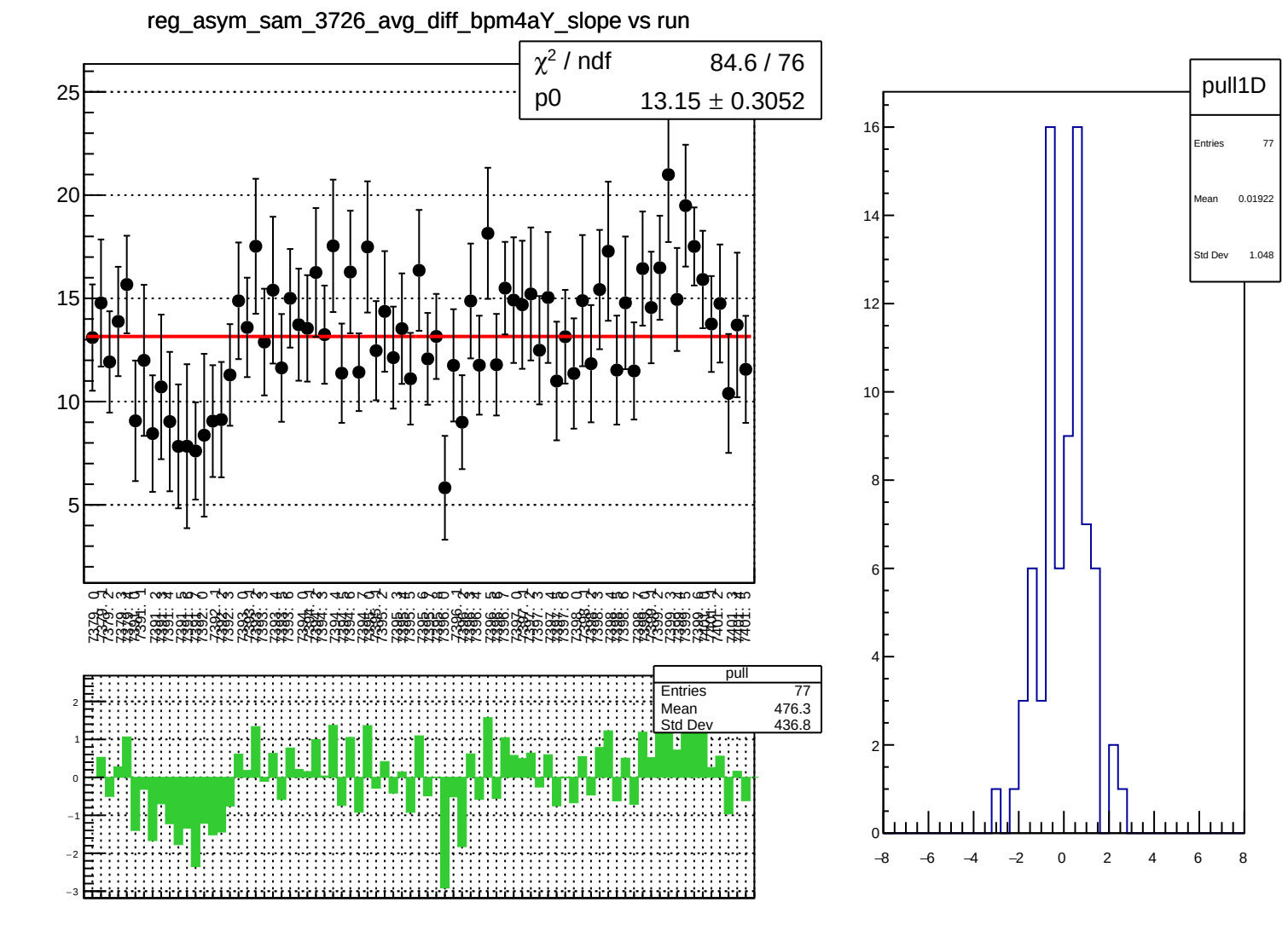

pull1D
Entries 77
Mean 0.0142
Std Dev 1.455

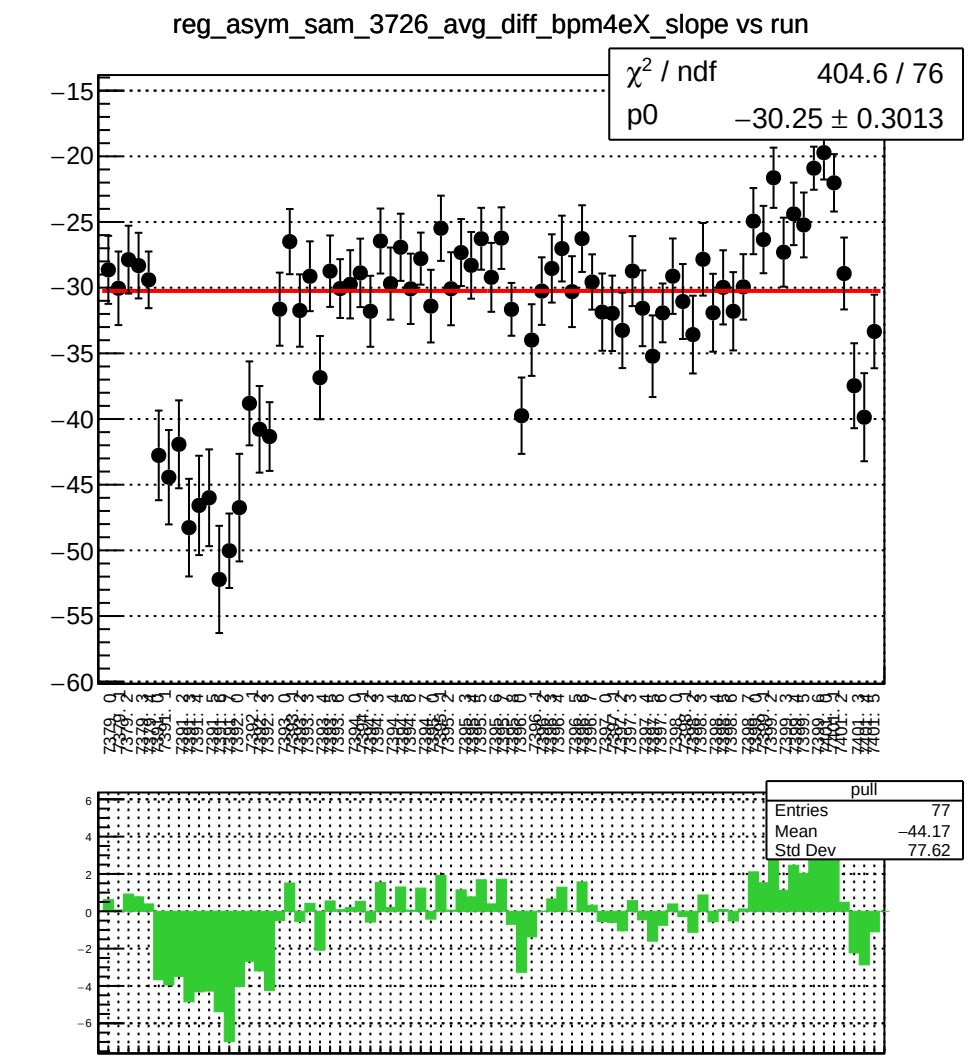

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 566.9 / 76
p0 −8.344 ± 0.1864
pull
Entries 77
Mean −55.55
Std Dev 91.57
pull1D
Entries 77
Mean −0.321
Std Dev 2.694

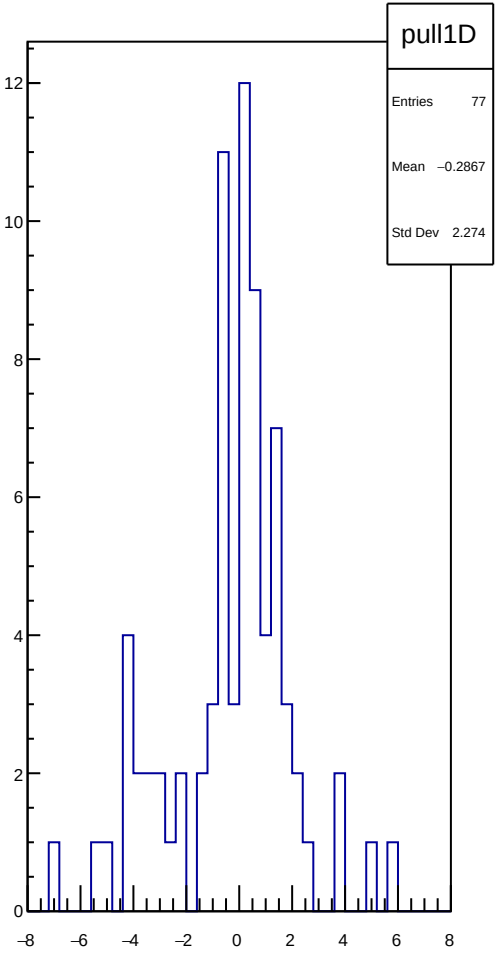

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 235.2 / 76
p0 9.731 ± 0.2017
pull
Entries 77
Mean −112.7
Std Dev 133.6
pull1D
Entries 77
Mean 0.05136
Std Dev 1.747

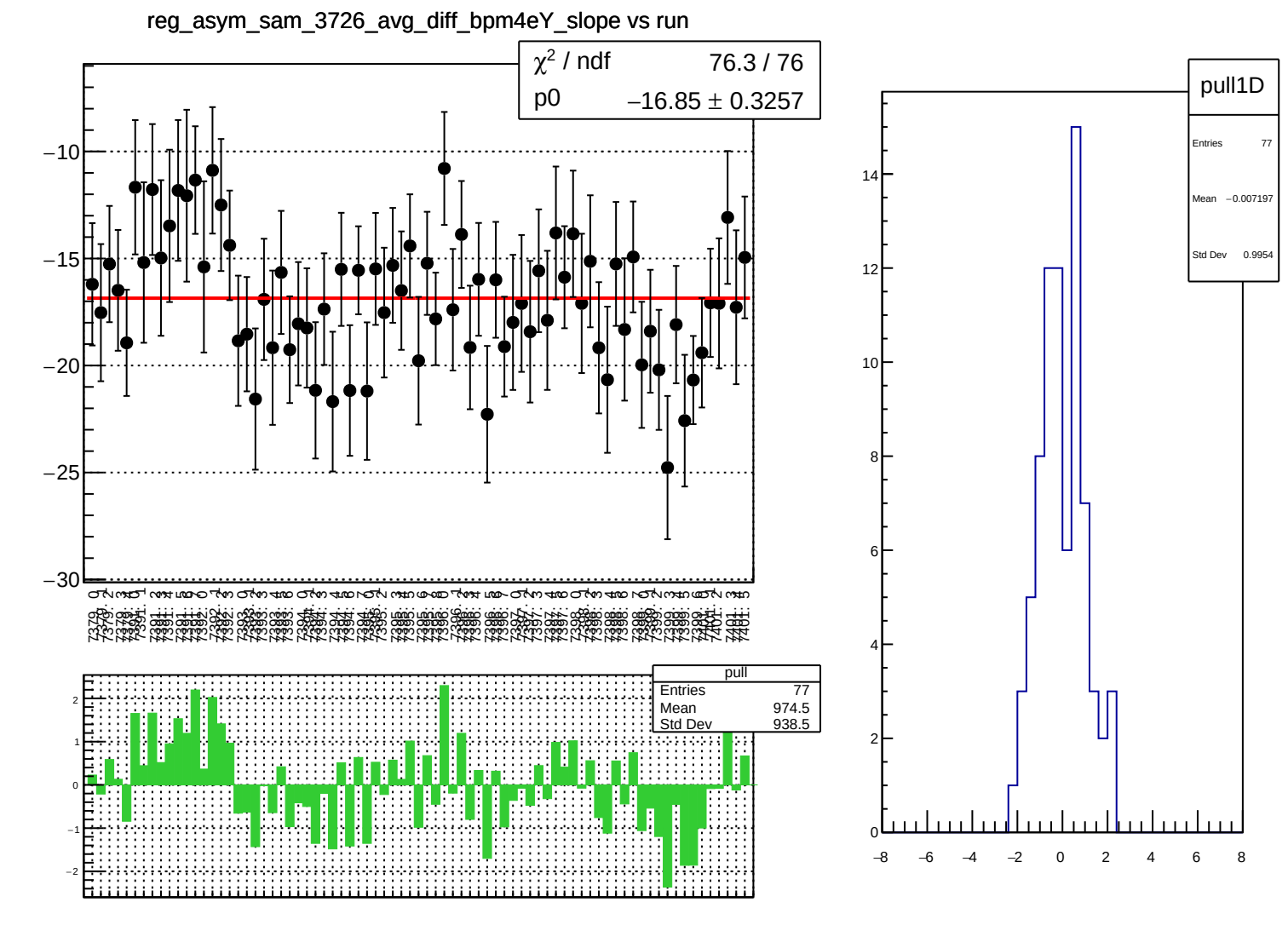

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 56.92 / 76
p0 0.4492 ± 0.009158
pull
Entries 77
Mean 3.24e+04
Std Dev 3.236e+04
pull1D
Entries 77
Mean −0.0004307
Std Dev 0.8598

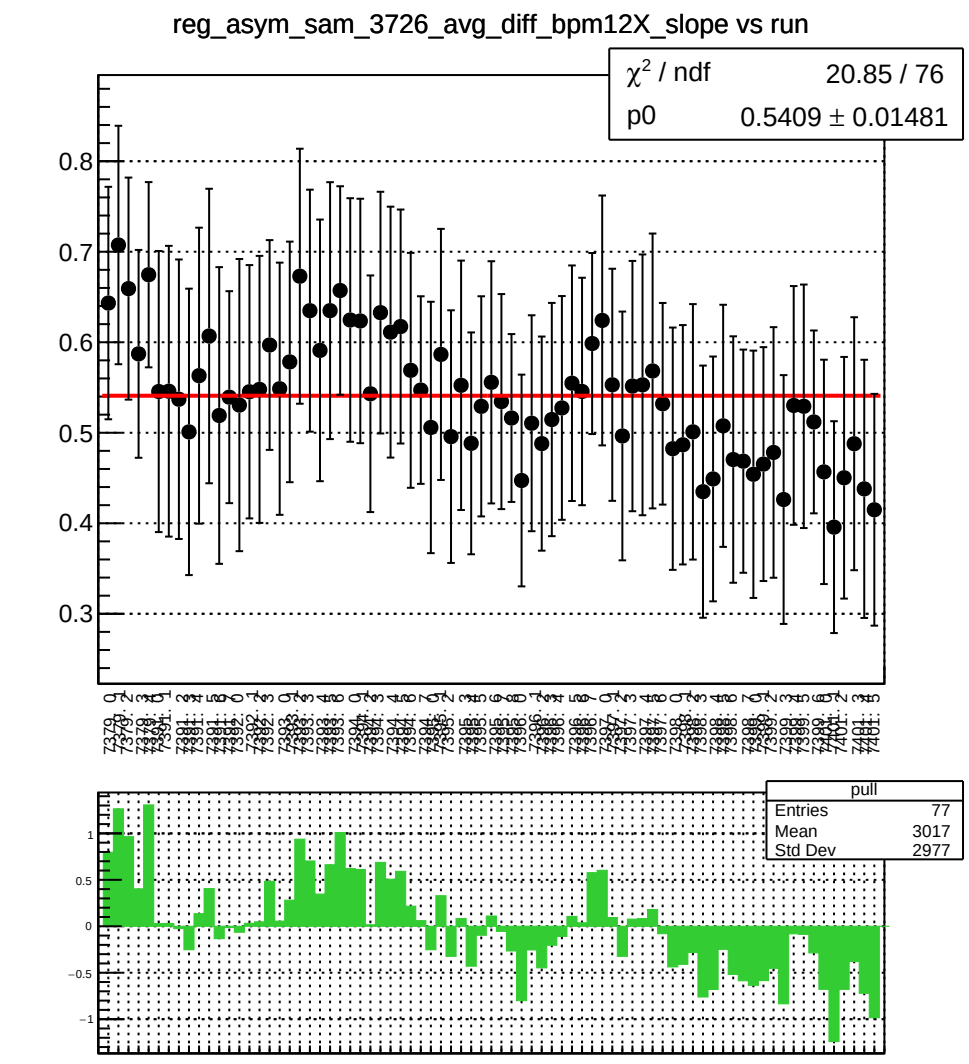

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 244 / 76
p0 −20.55 ± 0.2904
pull
Entries 77
Mean −91.84
Std Dev 130.7
pull1D
Entries 77
Mean 0.1619
Std Dev 1.773

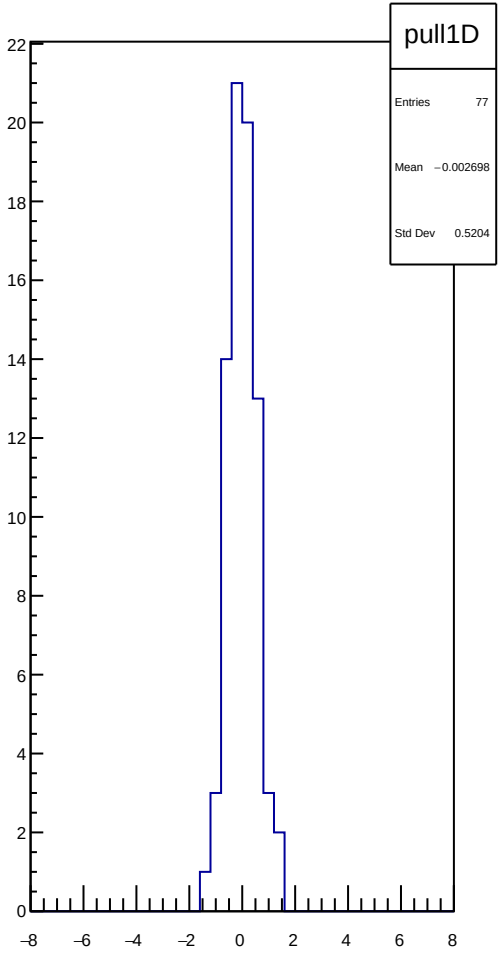

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 84.6 / 76
p0 13.15 ± 0.3052
pull
Entries 77
Mean 476.3
Std Dev 436.8
pull1D
Entries 77
Mean 0.01922
Std Dev 1.048

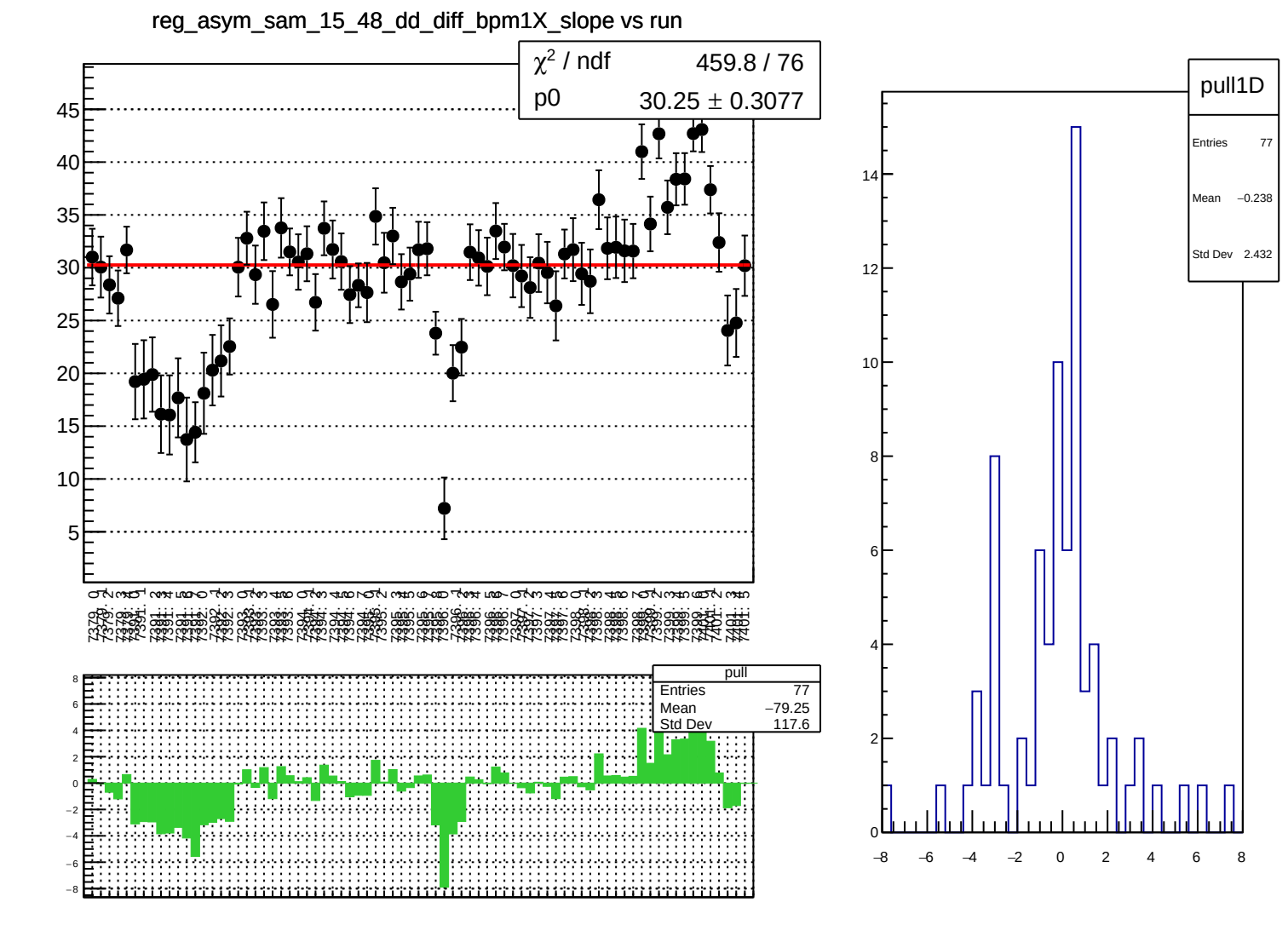

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 404.6 / 76
p0 −30.25 ± 0.3013
pull
Entries 77
Mean −44.17
Std Dev 77.62

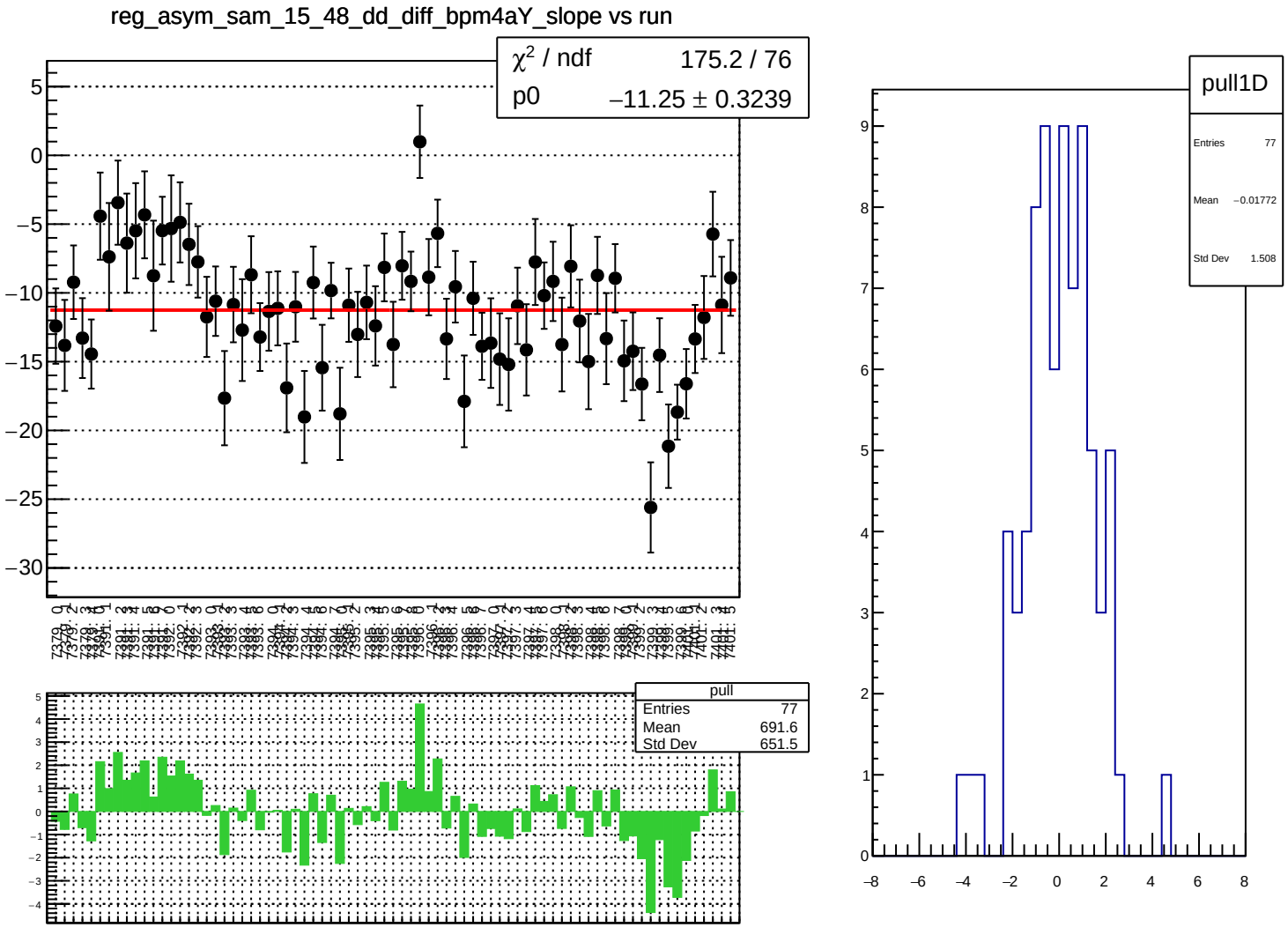

pull1D
Entries 77
Mean −0.2867
Std Dev 2.274

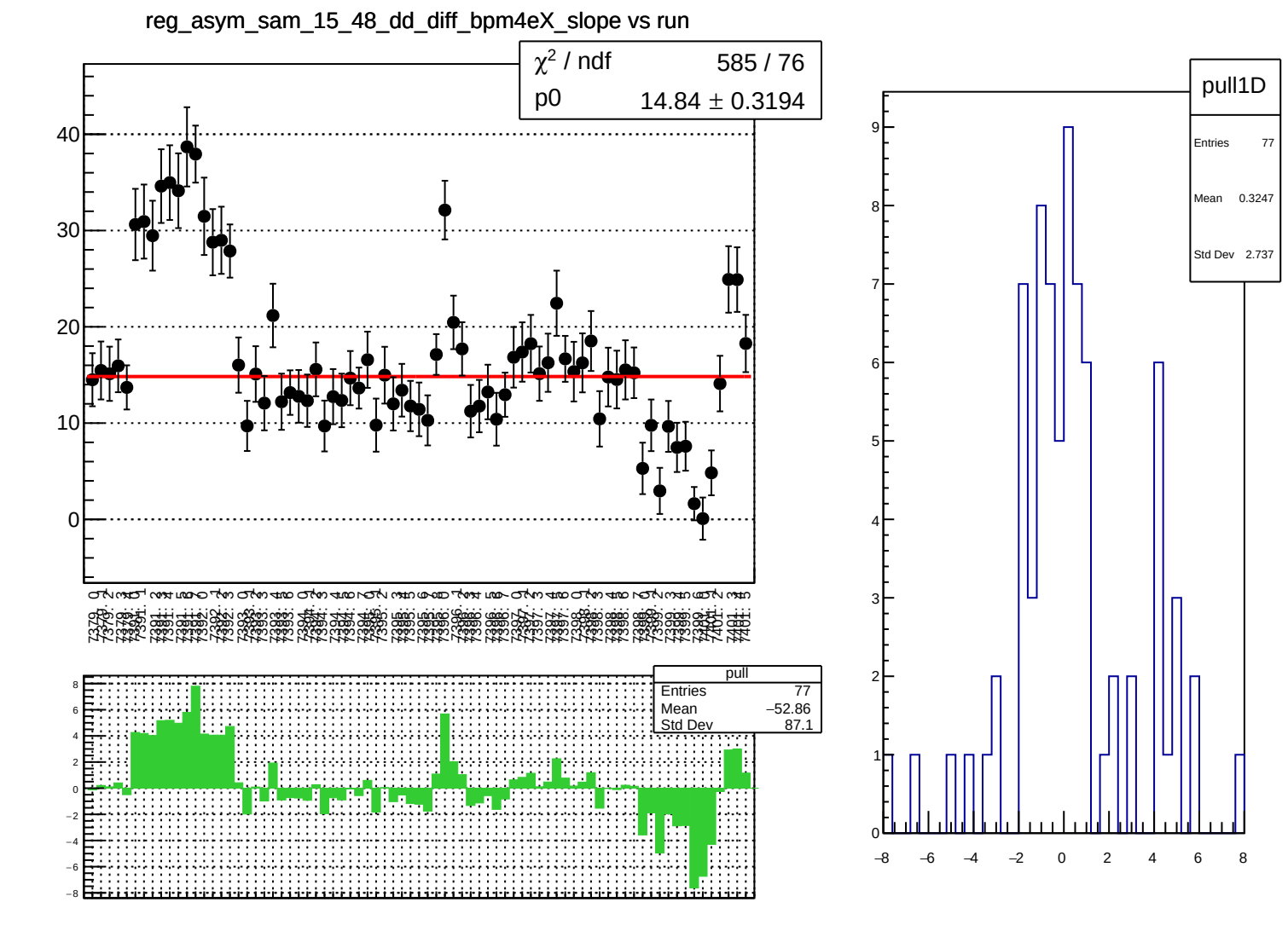

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 76.3 / 76
p0 −16.85 ± 0.3257
pull
Entries 77
Mean 974.5
Std Dev 938.5
pull1D
Entries 77
Mean −0.007197
Std Dev 0.9954

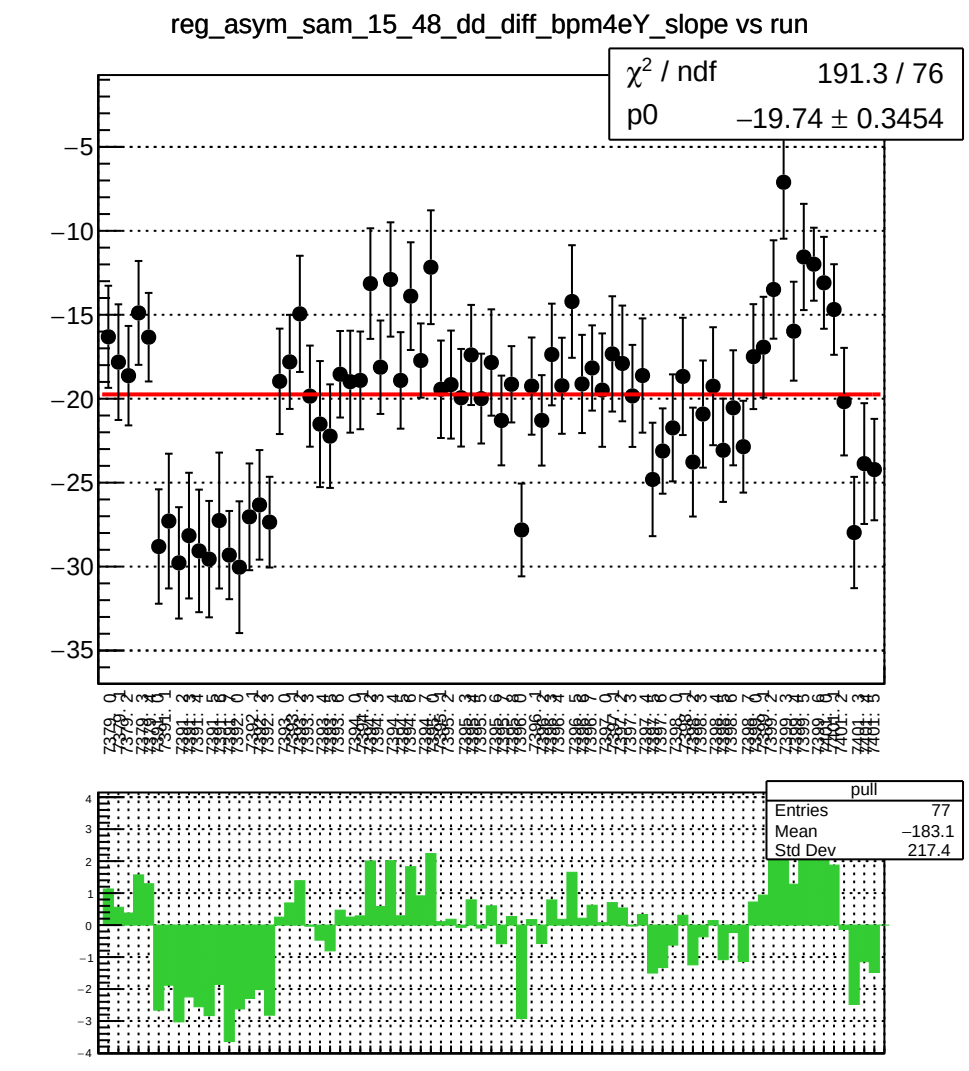

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 20.85 / 76
p0 0.5409 ± 0.01481
pull
Entries 77
Mean 3017
Std Dev 2977

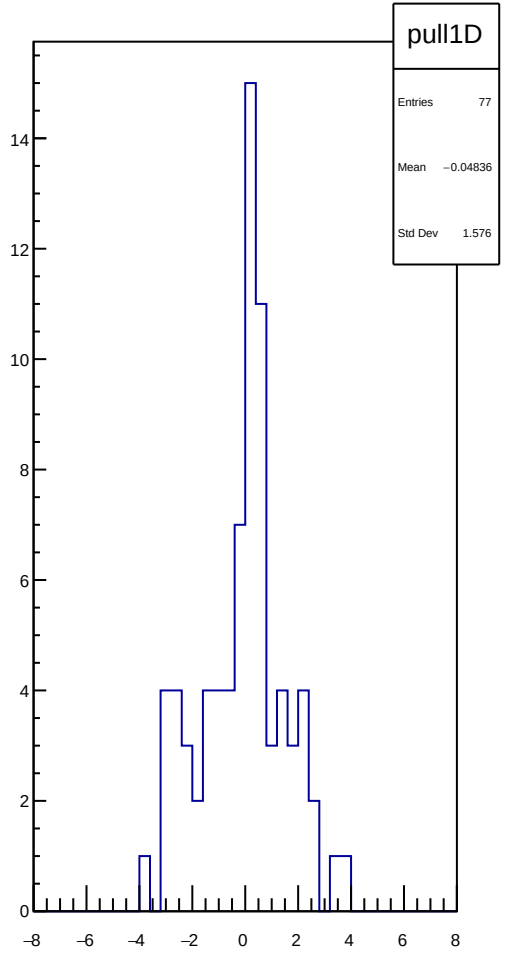

pull1D
Entries 77
Mean −0.002698
Std Dev 0.5204

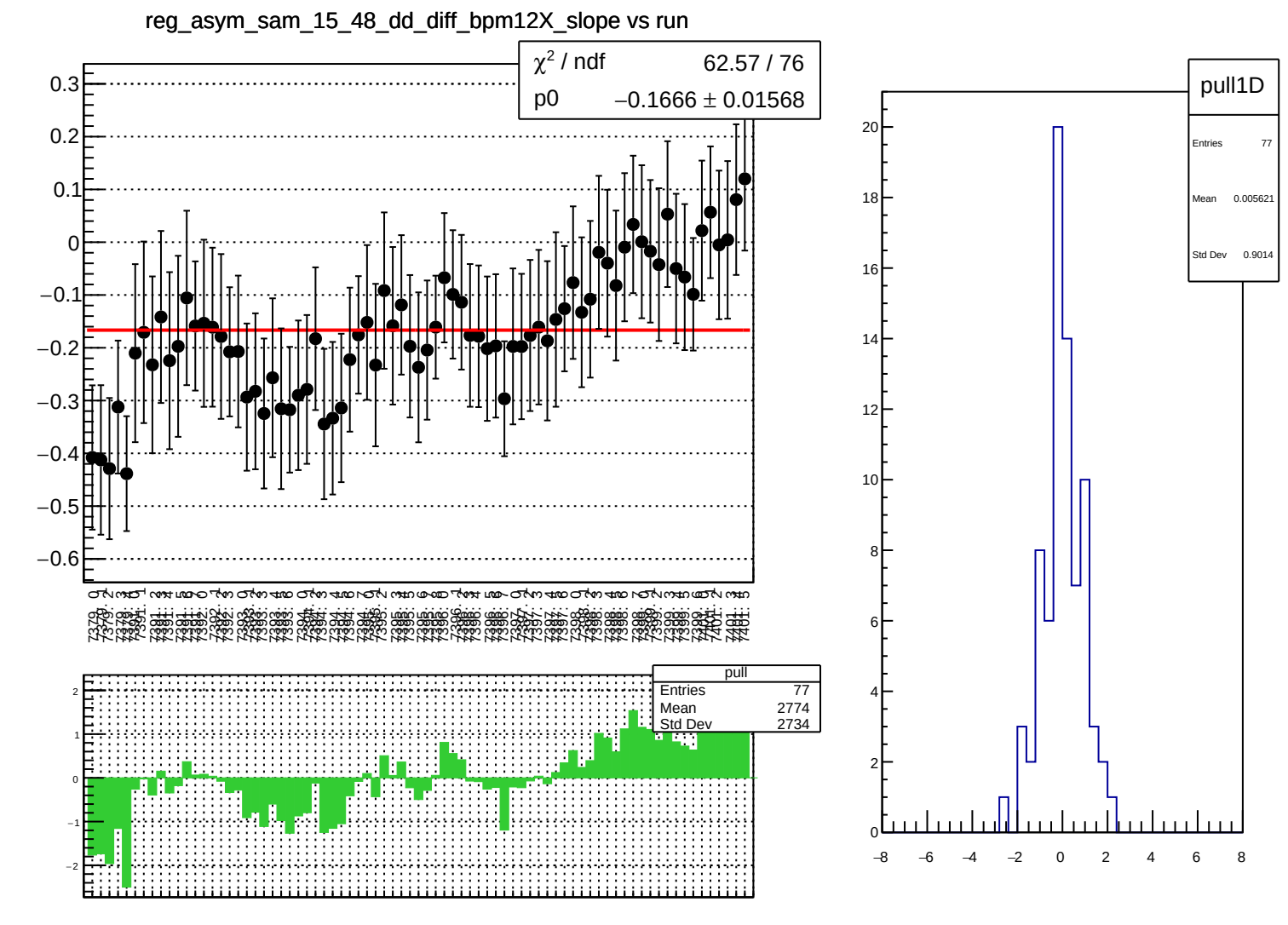

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 459.8 / 76
p0 30.25 ± 0.3077
pull
Entries 77
Mean −79.25
Std Dev 117.6
pull1D
Entries 77
Mean −0.238
Std Dev 2.432

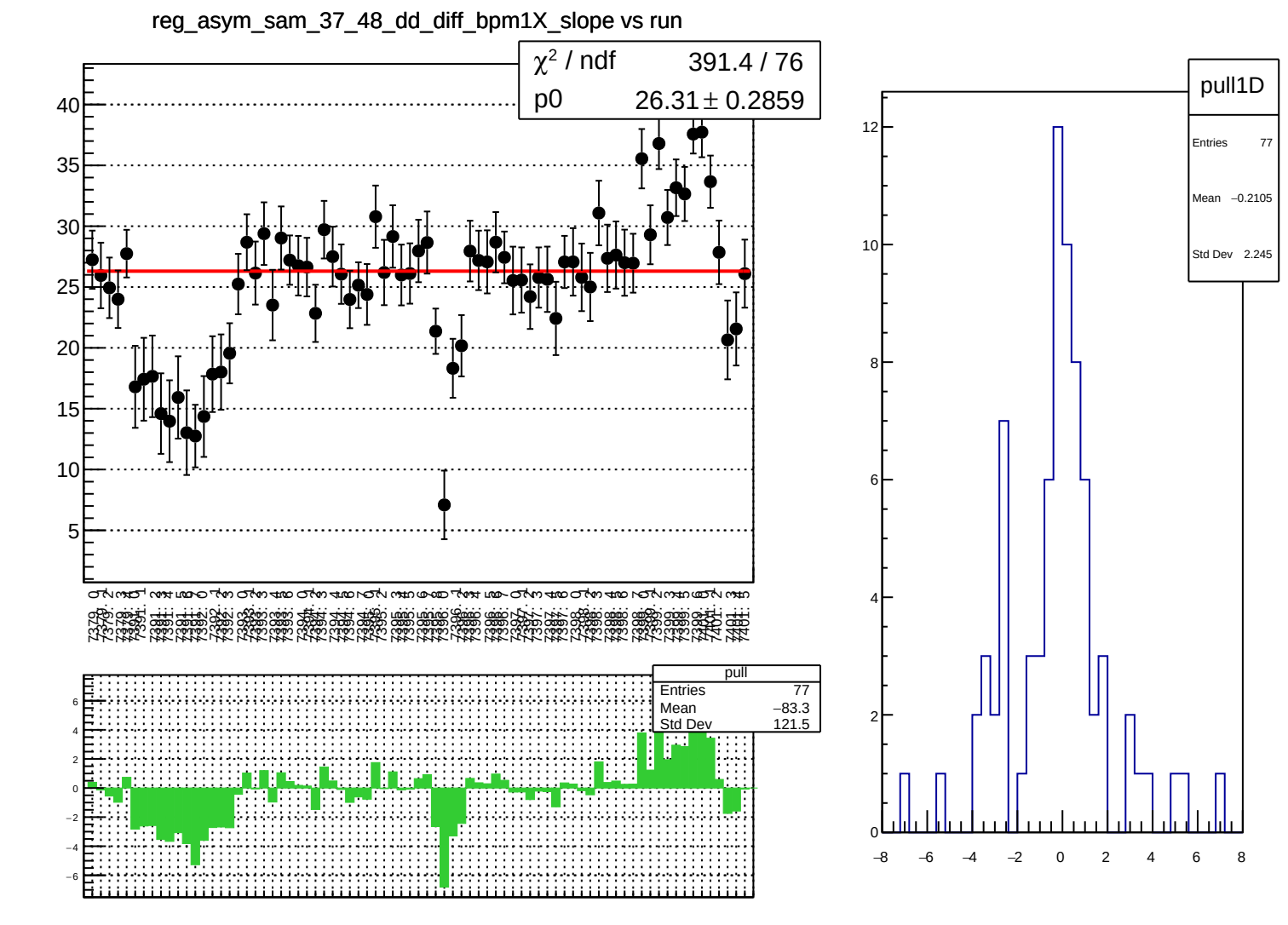

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 175.2 / 76
p0 −11.25 ± 0.3239
pull
Entries 77
Mean 691.6
Std Dev 651.5
pull1D
Entries 77
Mean −0.01772
Std Dev 1.508

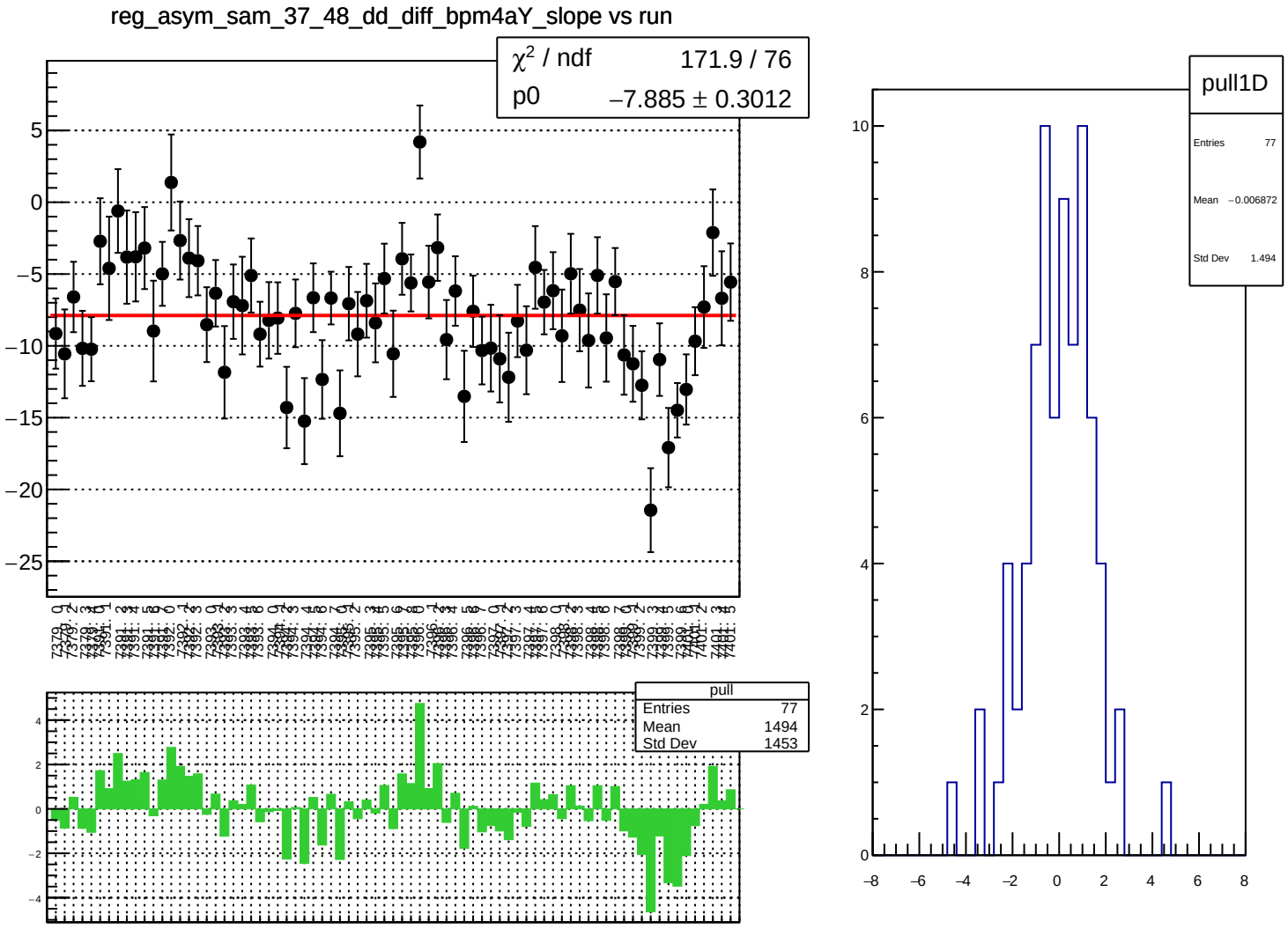

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 585 / 76
p0 14.84 ± 0.3194
pull
Entries 77
Mean −52.86
Std Dev 87.1
pull1D
Entries 77
Mean 0.3247
Std Dev 2.737

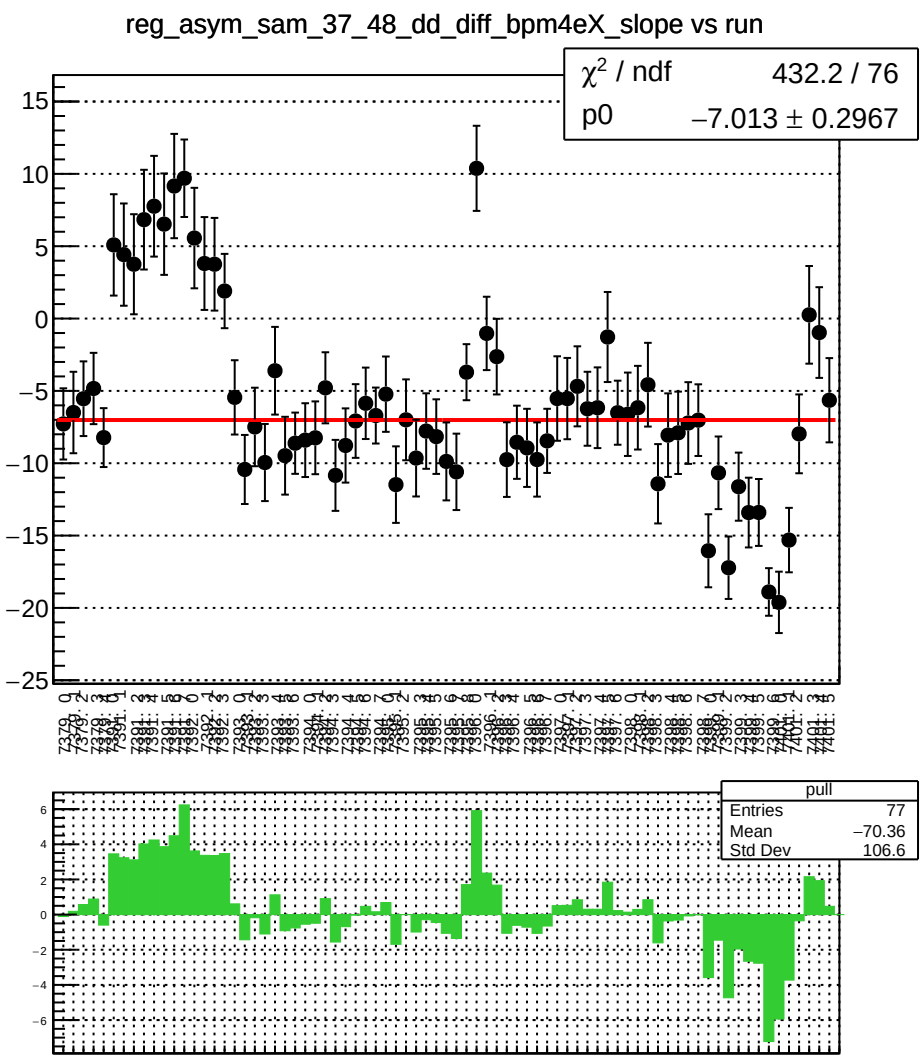

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 191.3 / 76
p0 −19.74 ± 0.3454
pull
Entries 77
Mean −183.1
Std Dev 217.4

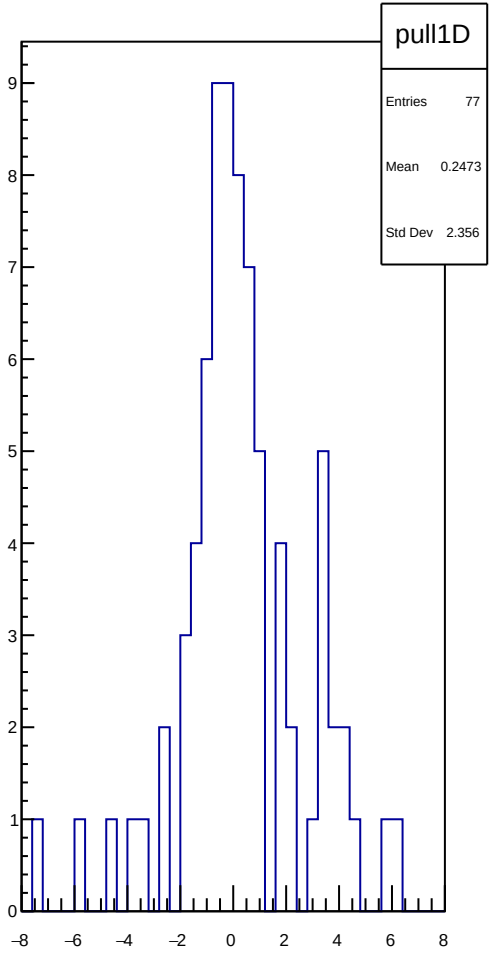

pull1D
Entries 77
Mean −0.04836
Std Dev 1.576

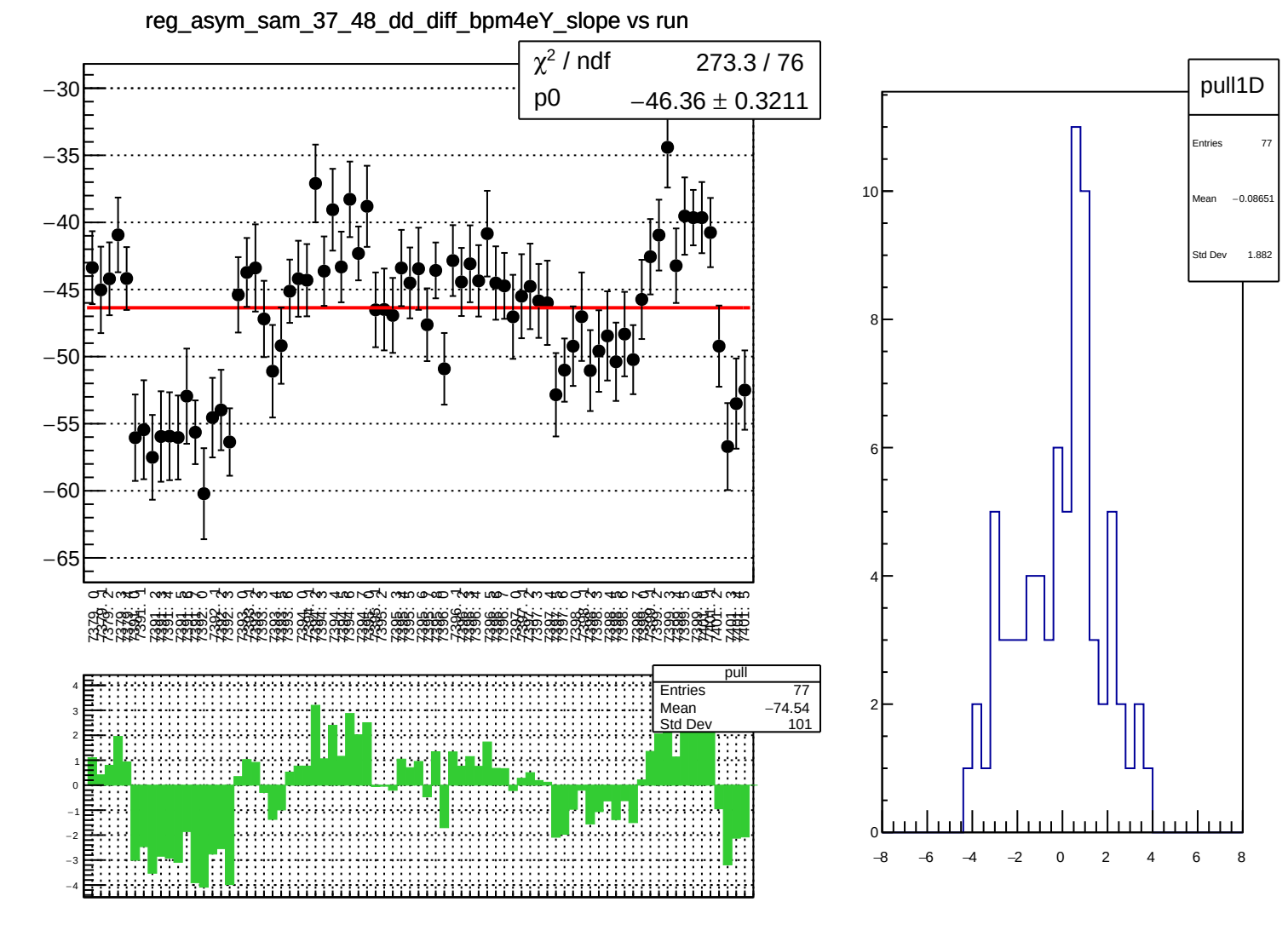

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 62.57 / 76
p0 −0.1666 ± 0.01568
pull
Entries 77
Mean 2774
Std Dev 2734
pull1D
Entries 77
Mean 0.005621
Std Dev 0.9014

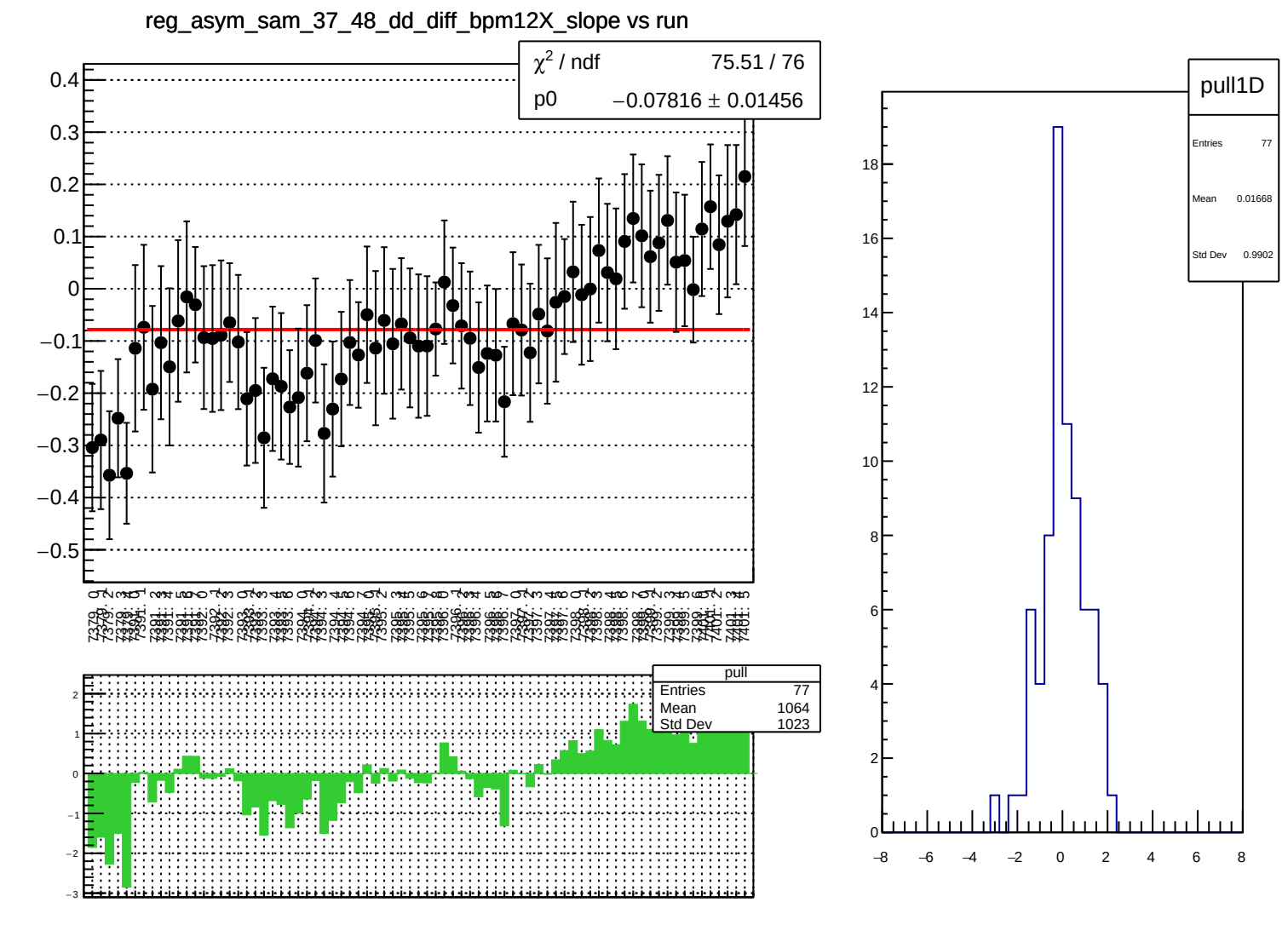

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 391.4 / 76
p0 26.31 ± 0.2859
pull
Entries 77
Mean −83.3
Std Dev 121.5
pull1D
Entries 77
Mean −0.2105
Std Dev 2.245

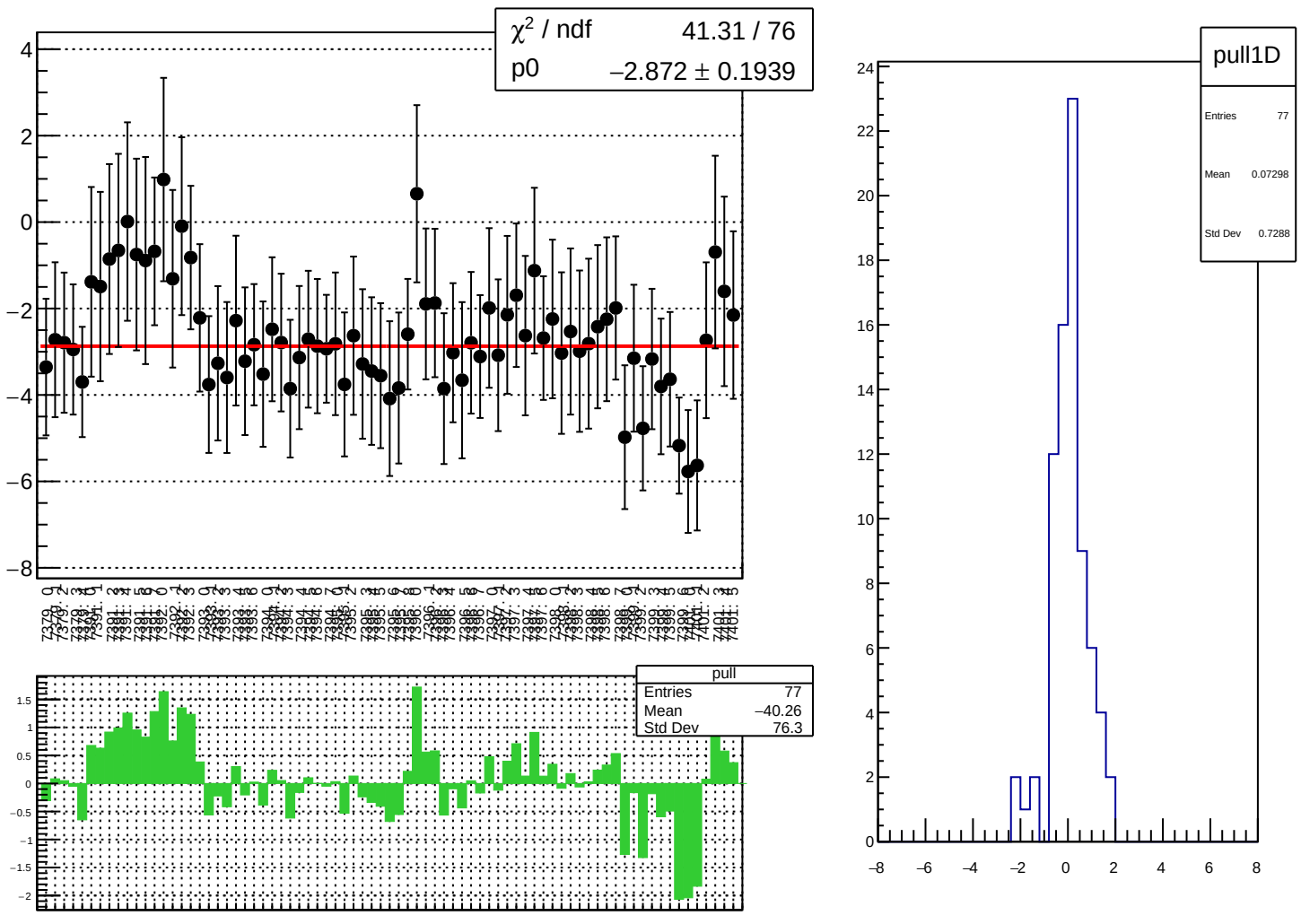

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 171.9 / 76
p0 −7.885 ± 0.3012
pull
Entries 77
Mean 1494
Std Dev 1453
pull1D
Entries 77
Mean −0.006872
Std Dev 1.494

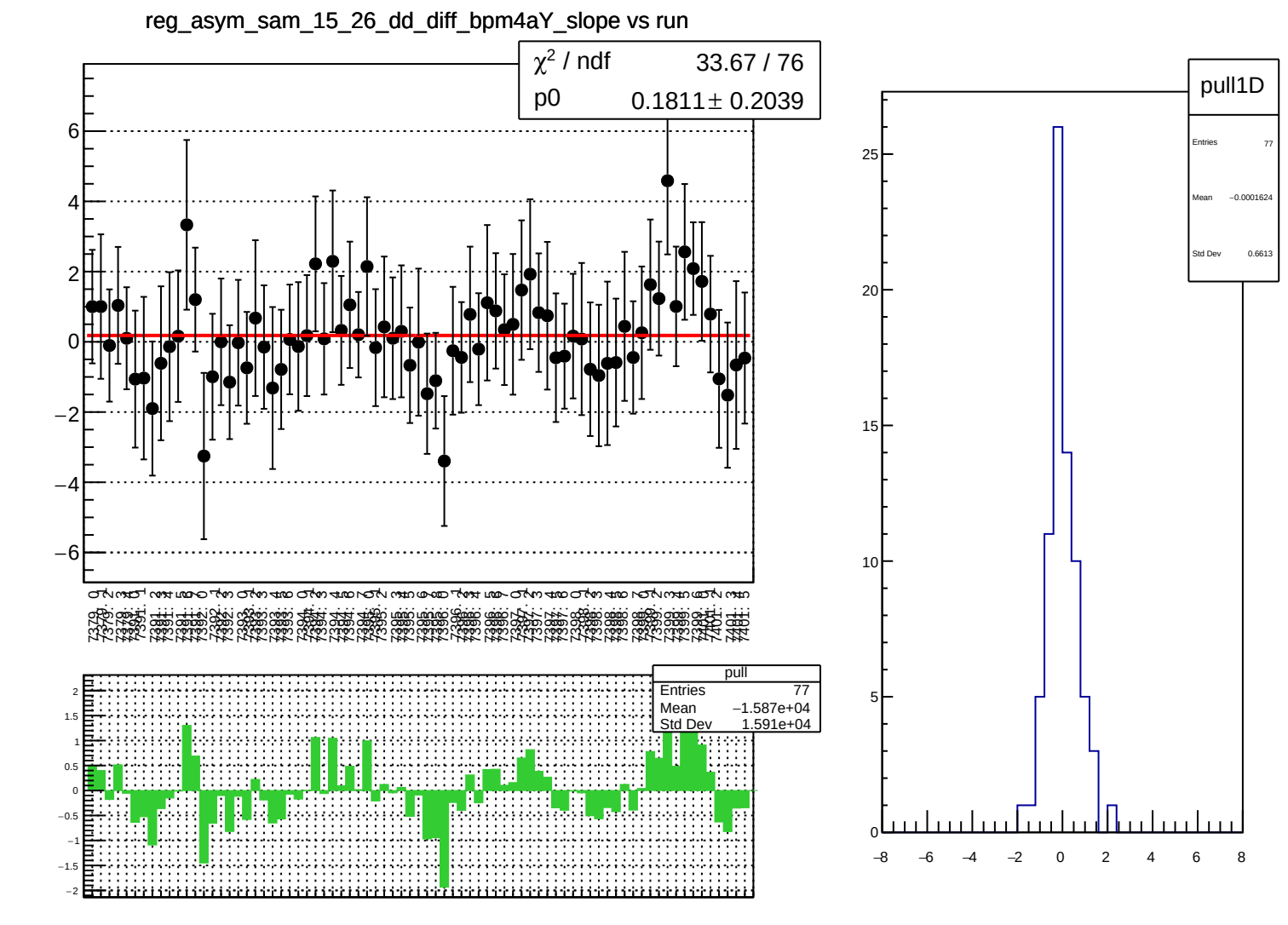

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 432.2 / 76
p0 −7.013 ± 0.2967
pull
Entries 77
Mean −70.36
Std Dev 106.6

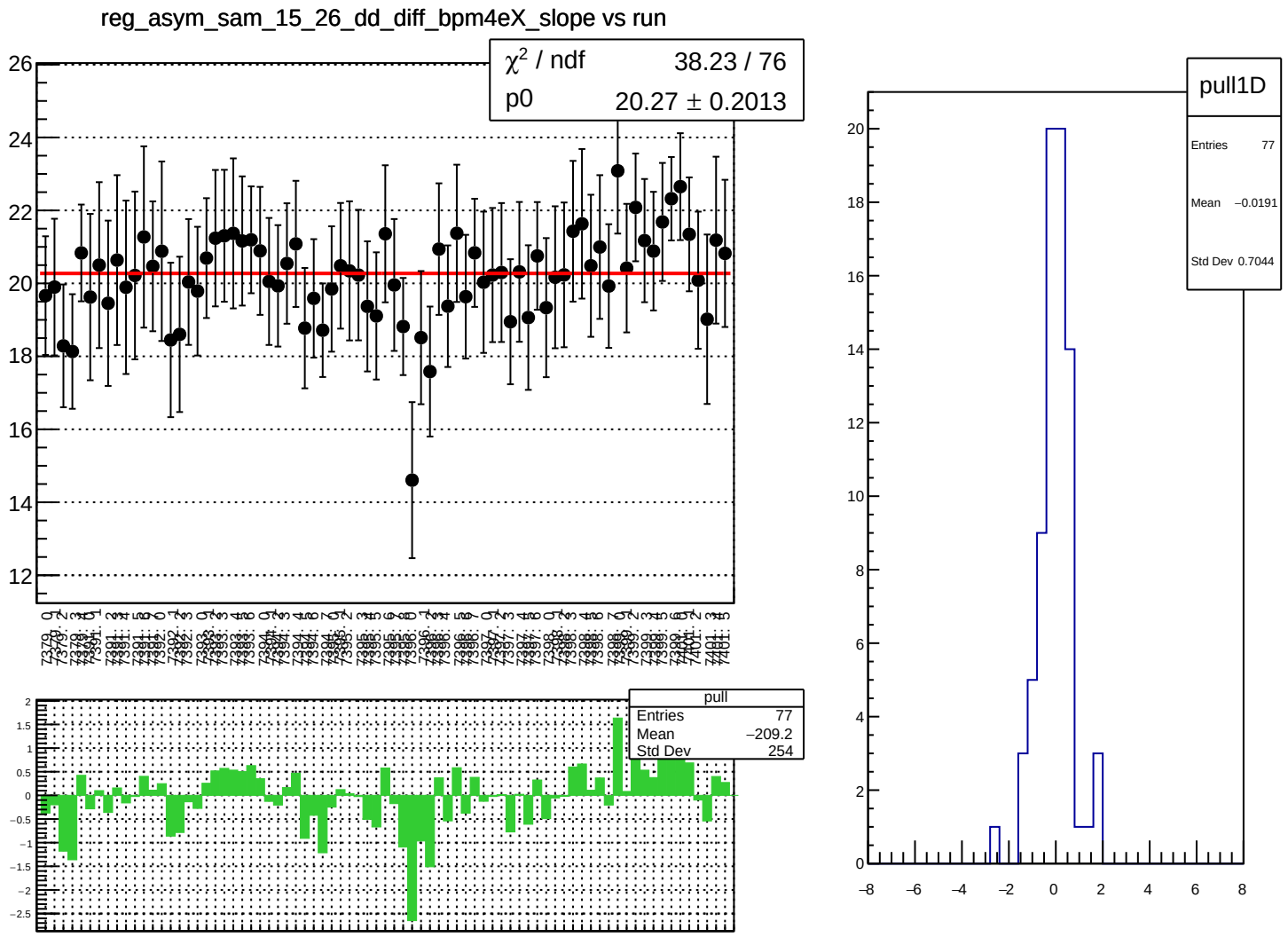

pull1D
Entries 77
Mean 0.2473
Std Dev 2.356

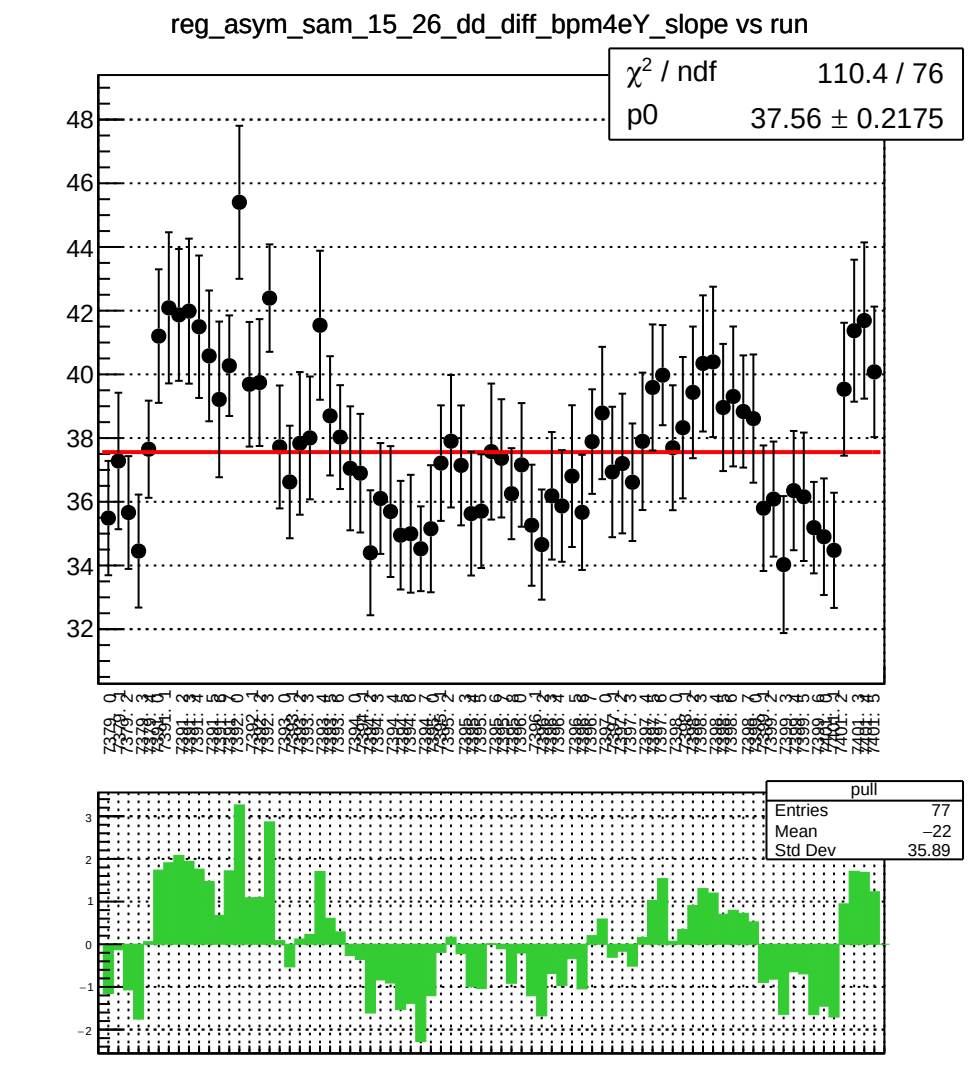

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 273.3 / 76
p0 −46.36 ± 0.3211
pull
Entries 77
Mean −74.54
Std Dev 101
pull1D
Entries 77
Mean −0.08651
Std Dev 1.882

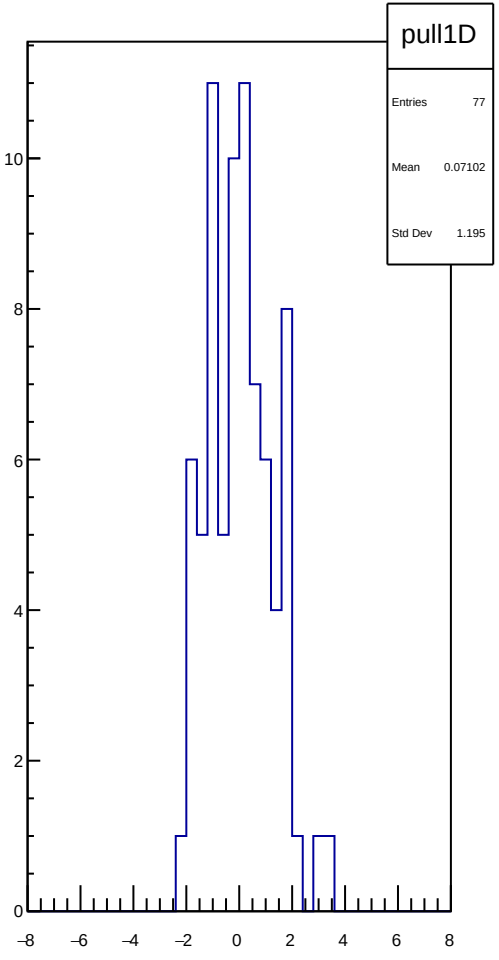

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 75.51 / 76
p0 −0.07816 ± 0.01456
pull
Entries 77
Mean 1064
Std Dev 1023
pull1D
Entries 77
Mean 0.01668
Std Dev 0.9902

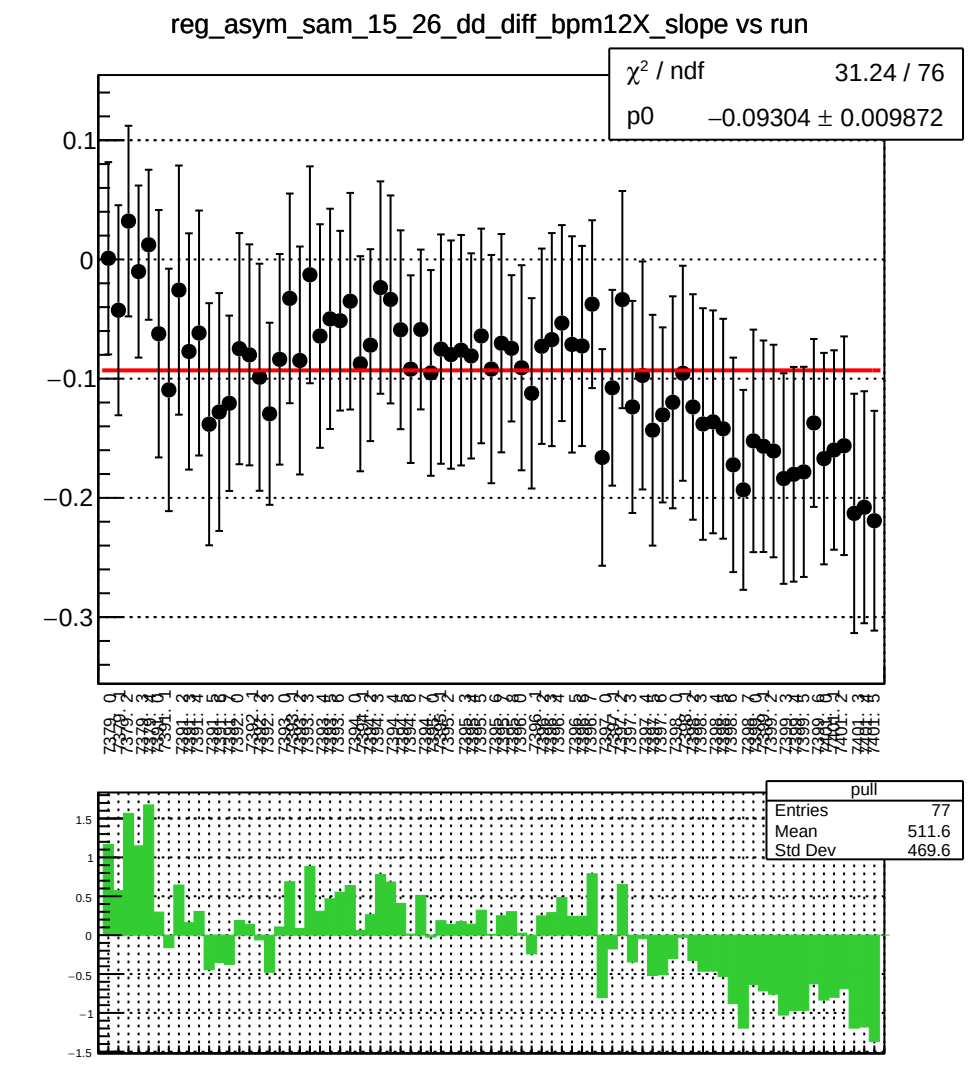

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 41.31 / 76
p0 −2.872 ± 0.1939
pull
Entries 77
Mean −40.26
Std Dev 76.3
pull1D
Entries 77
Mean 0.07298
Std Dev 0.7288

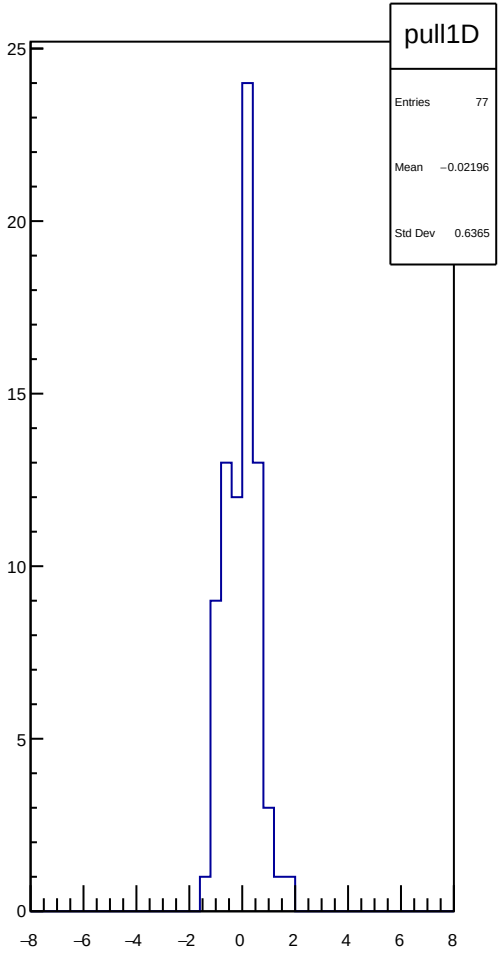

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.67 / 76
p0 0.1811 ± 0.2039
pull
Entries 77
Mean −1.587e+04
Std Dev 1.591e+04
pull1D
Entries 77
Mean −0.0001624
Std Dev 0.6613

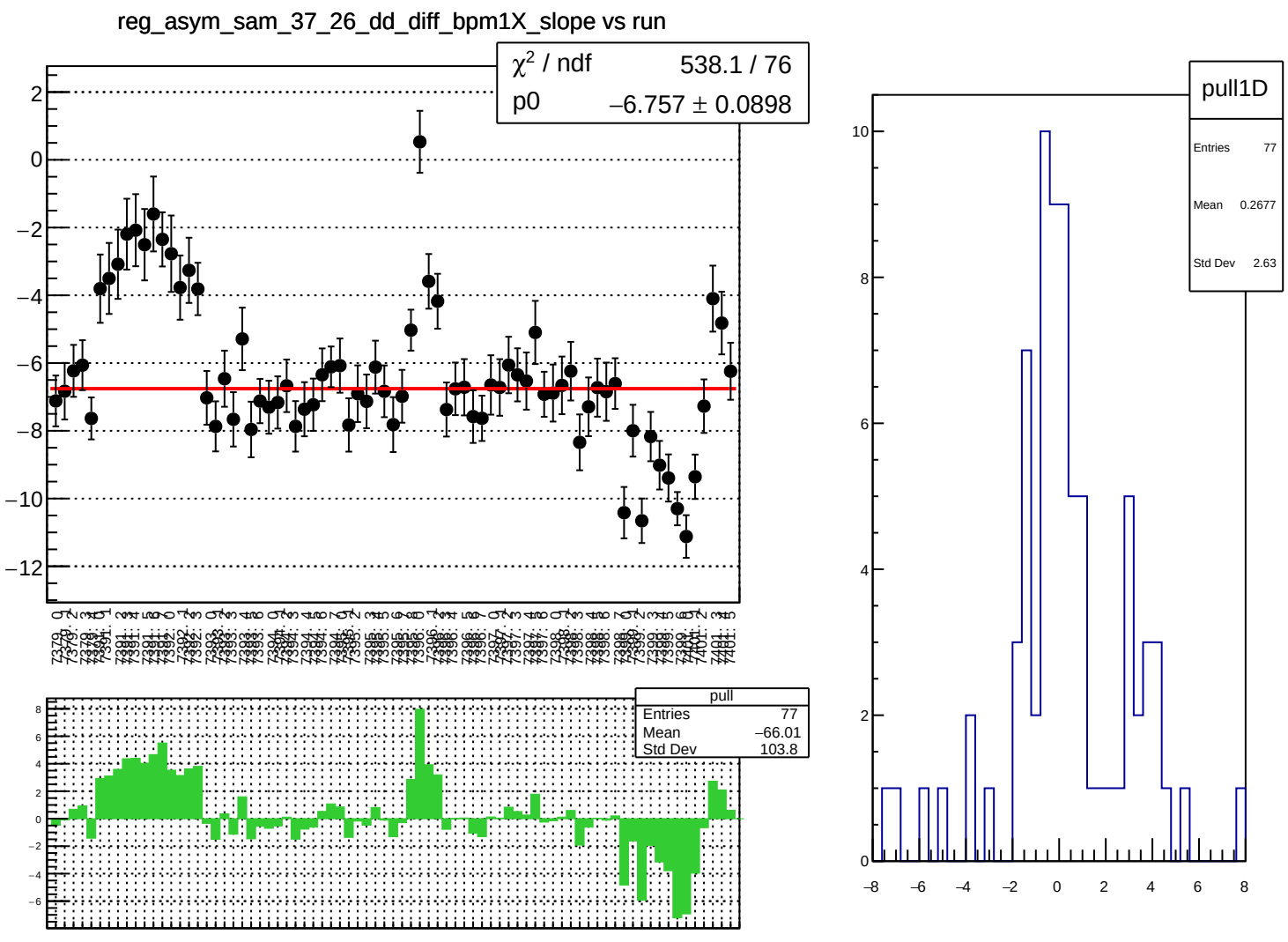

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.23 / 76
p0 20.27 ± 0.2013
pull
Entries 77
Mean −209.2
Std Dev 254
pull1D
Entries 77
Mean −0.0191
Std Dev 0.7044

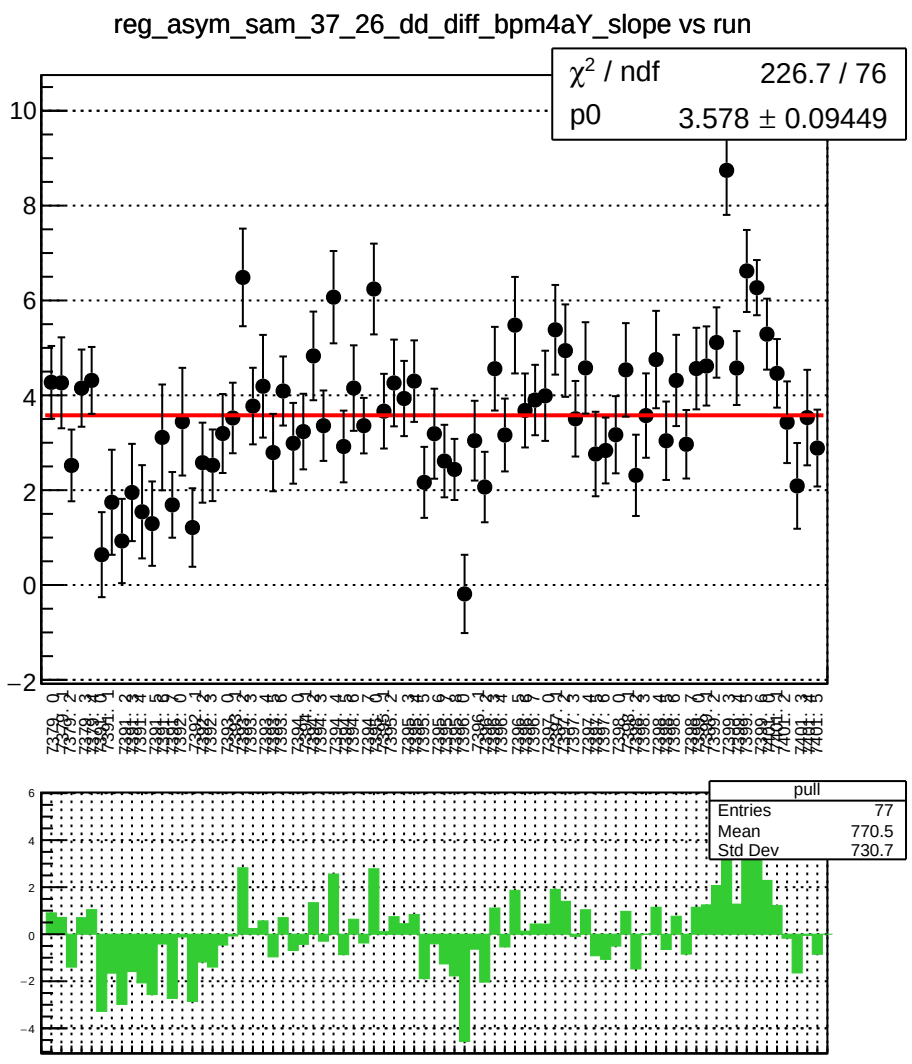

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 110.4 / 76
p0 37.56 ± 0.2175
pull
Entries 77
Mean −22
Std Dev 35.89

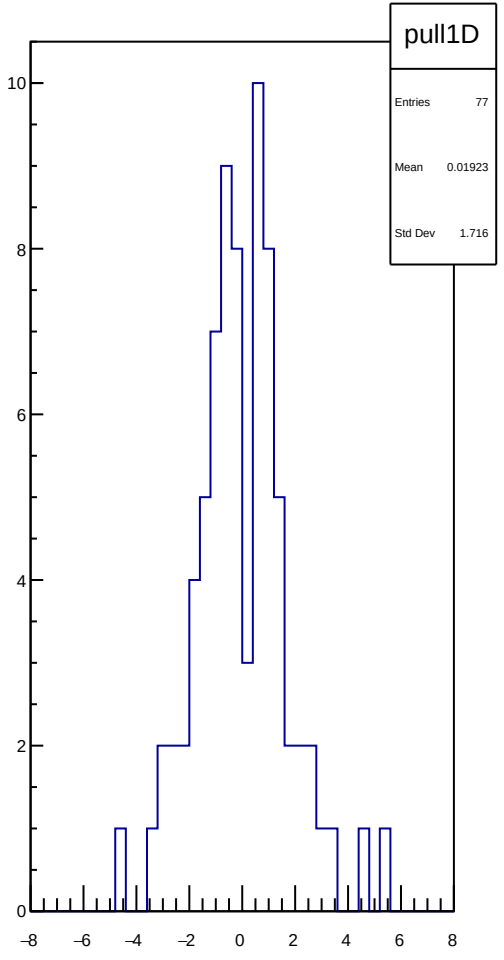

pull1D
Entries 77
Mean 0.07102
Std Dev 1.195

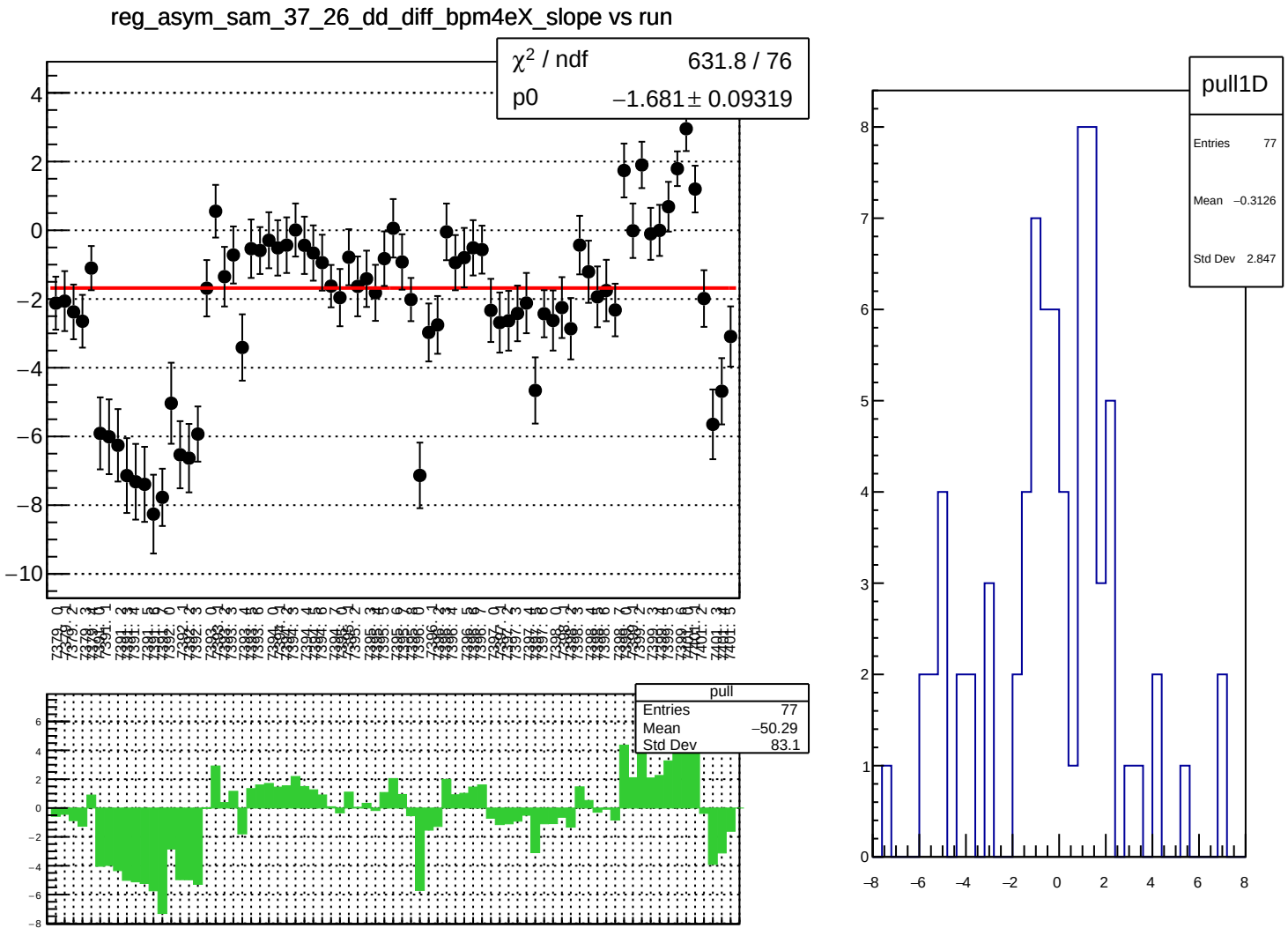

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 31.24 / 76
p0 −0.09304 ± 0.009872
pull
Entries 77
Mean 511.6
Std Dev 469.6

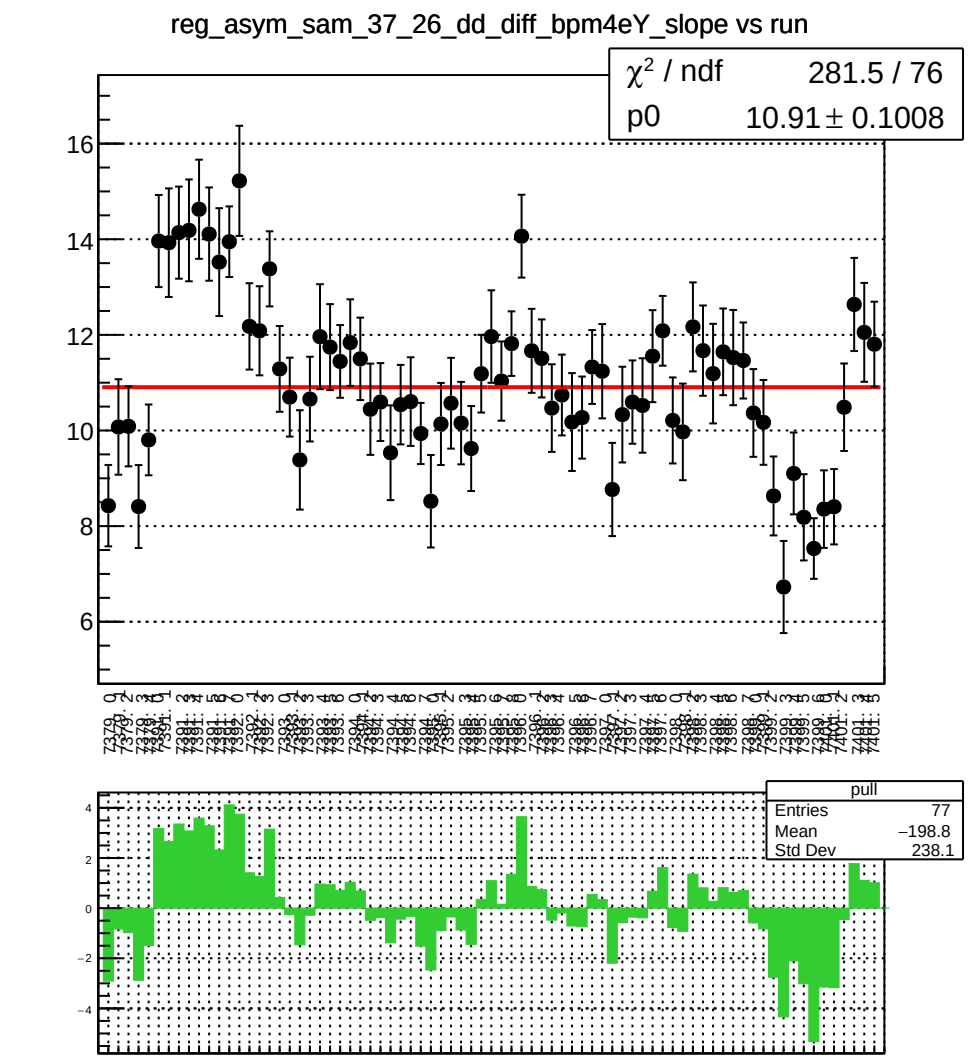

pull1D
Entries 77
Mean −0.02196
Std Dev 0.6365

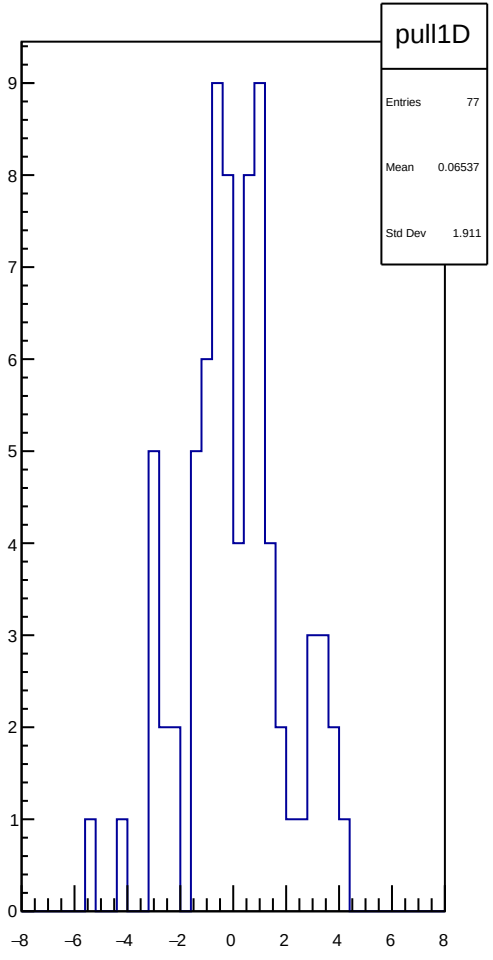

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 538.1 / 76
p0 −6.757 ± 0.0898
pull
Entries 77
Mean −66.01
Std Dev 103.8
pull1D
Entries 77
Mean 0.2677
Std Dev 2.63

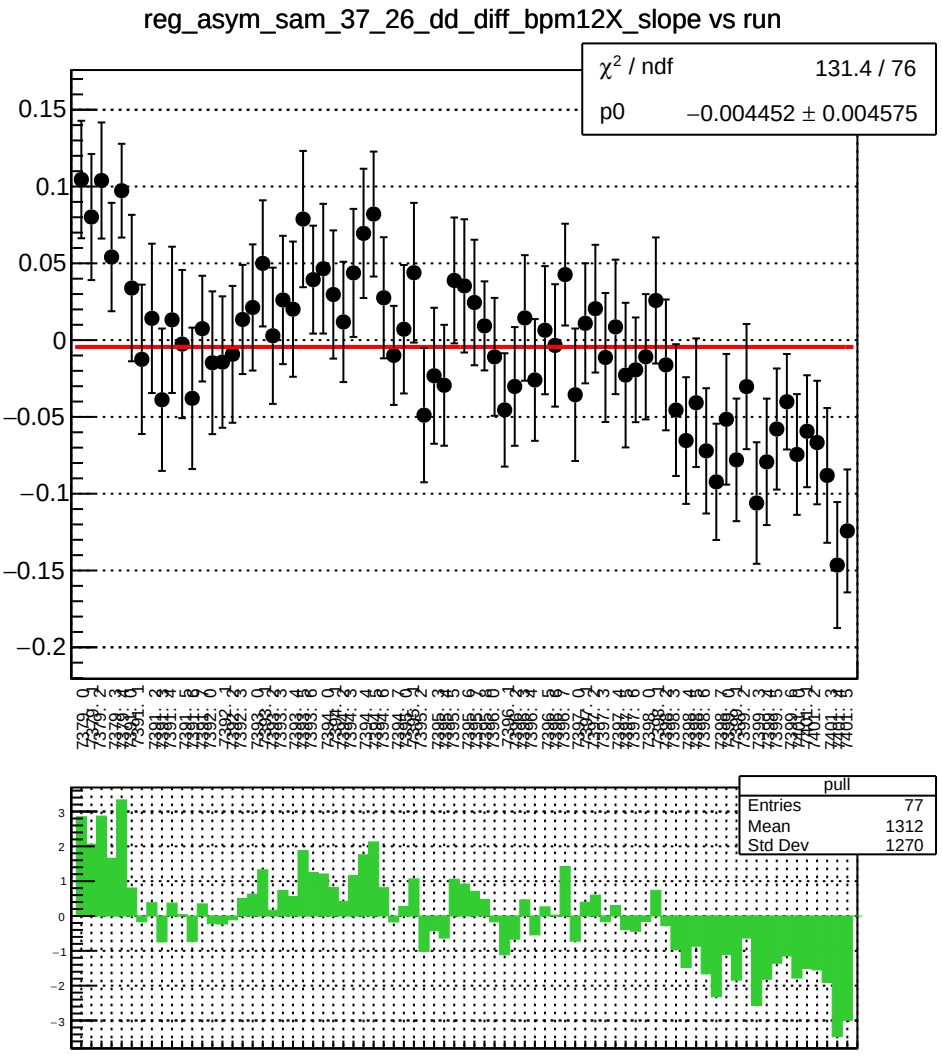

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 226.7 / 76
p0 3.578 ± 0.09449
pull
Entries 77
Mean 770.5
Std Dev 730.7

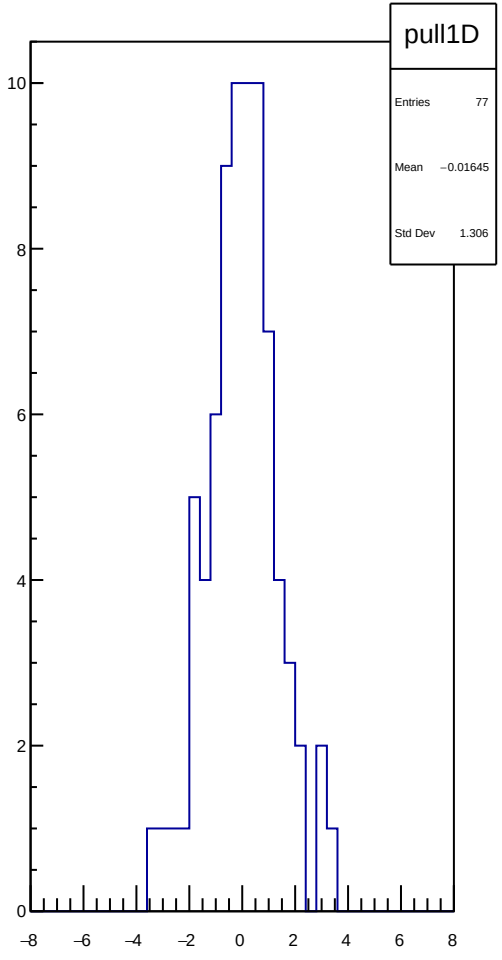

pull1D
Entries 77
Mean 0.01923
Std Dev 1.716

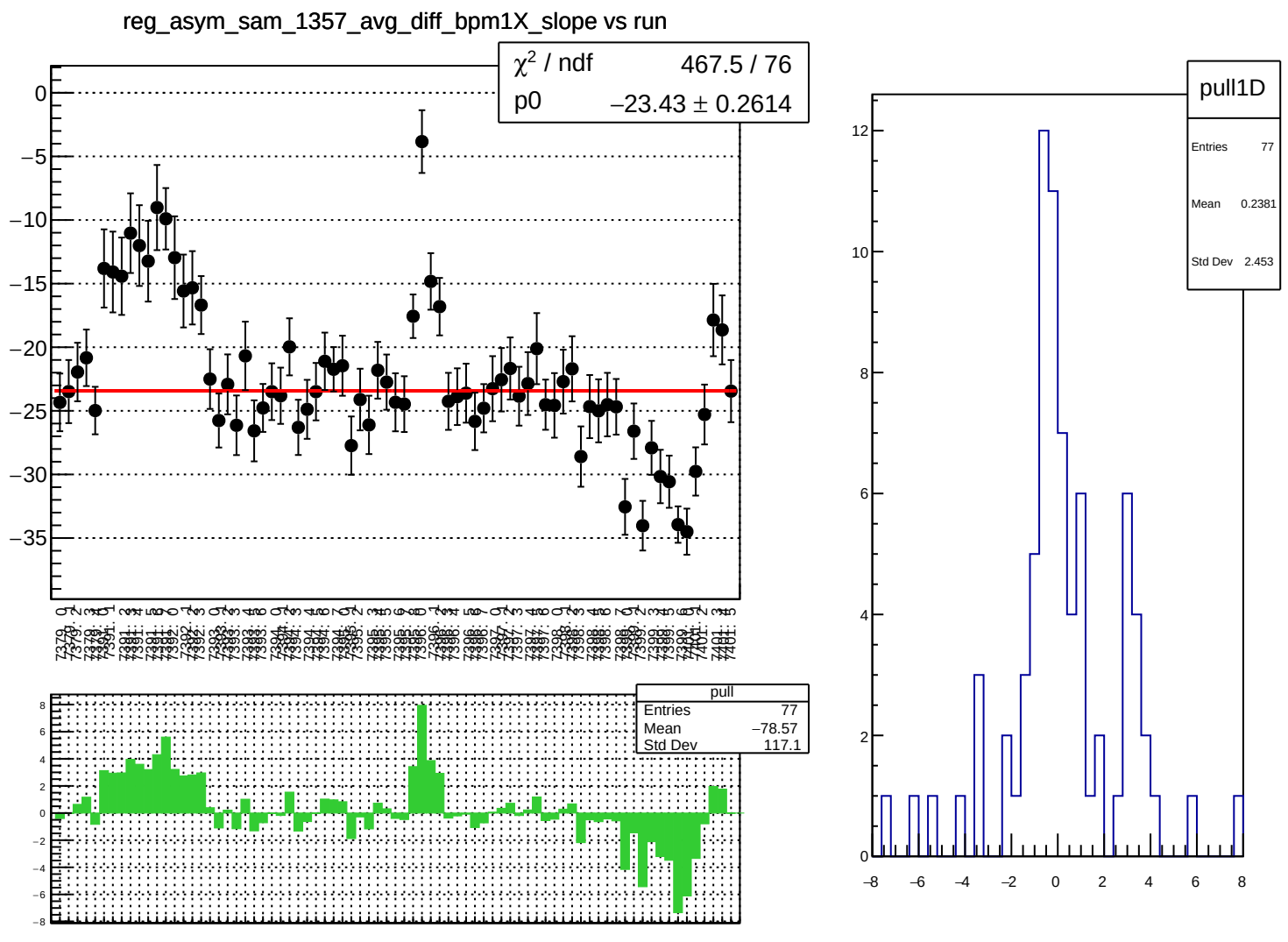

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 631.8 / 76
p0 −1.681 ± 0.09319
pull
Entries 77
Mean −50.29
Std Dev 83.1
pull1D
Entries 77
Mean −0.3126
Std Dev 2.847

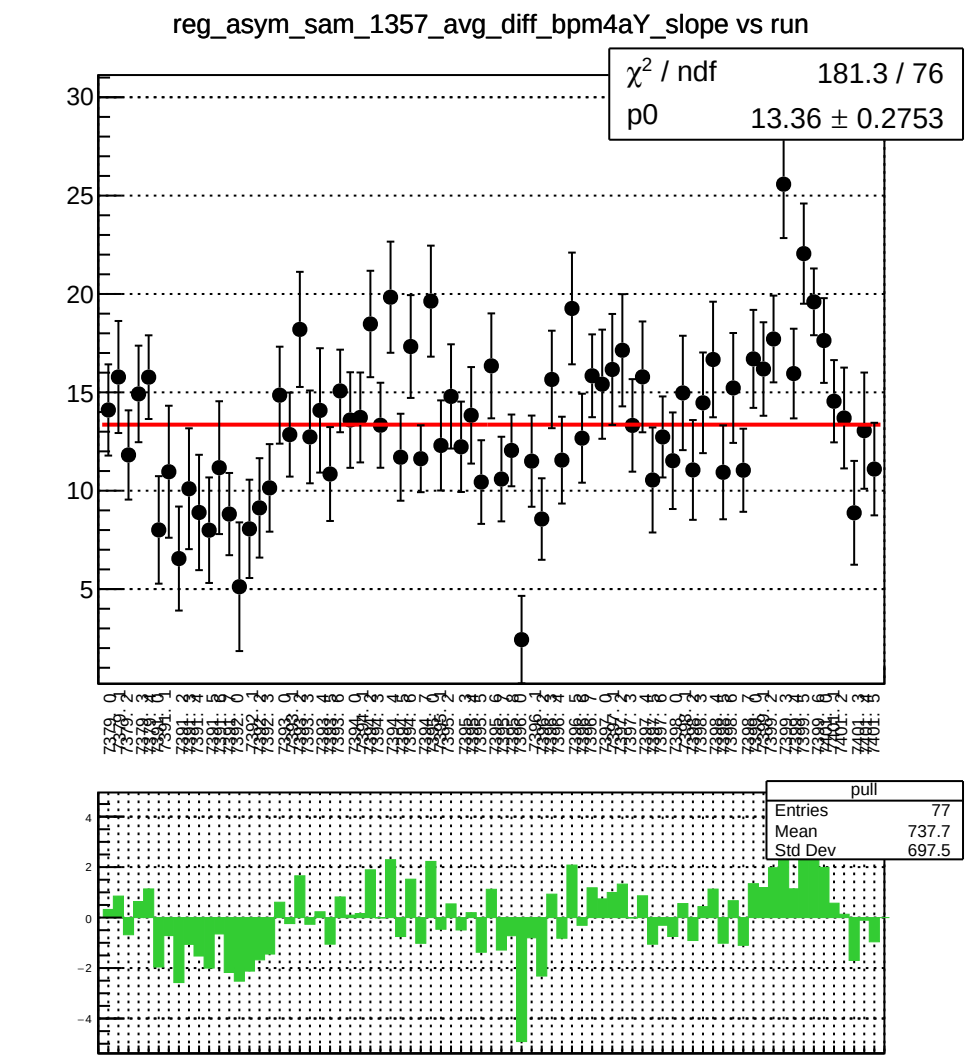

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 281.5 / 76
p0 10.91 ± 0.1008
pull
Entries 77
Mean −198.8
Std Dev 238.1

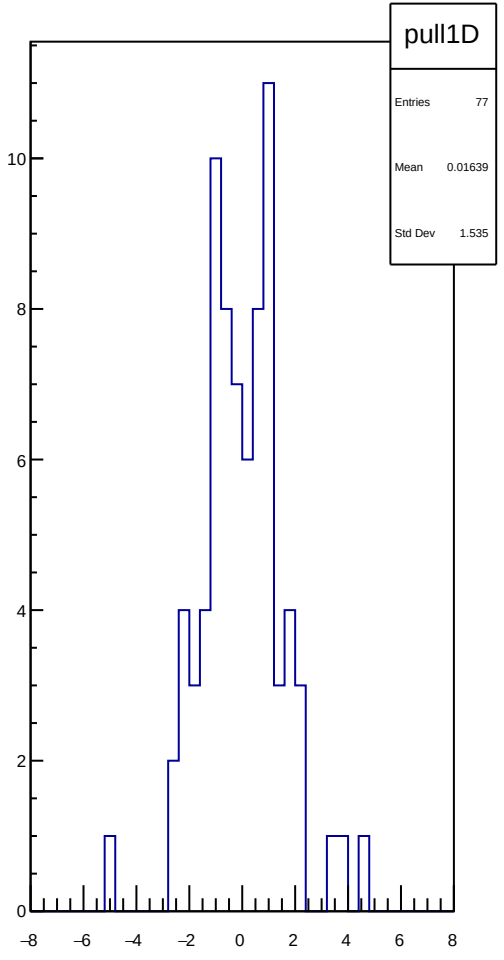

pull1D
Entries 77
Mean 0.06537
Std Dev 1.911

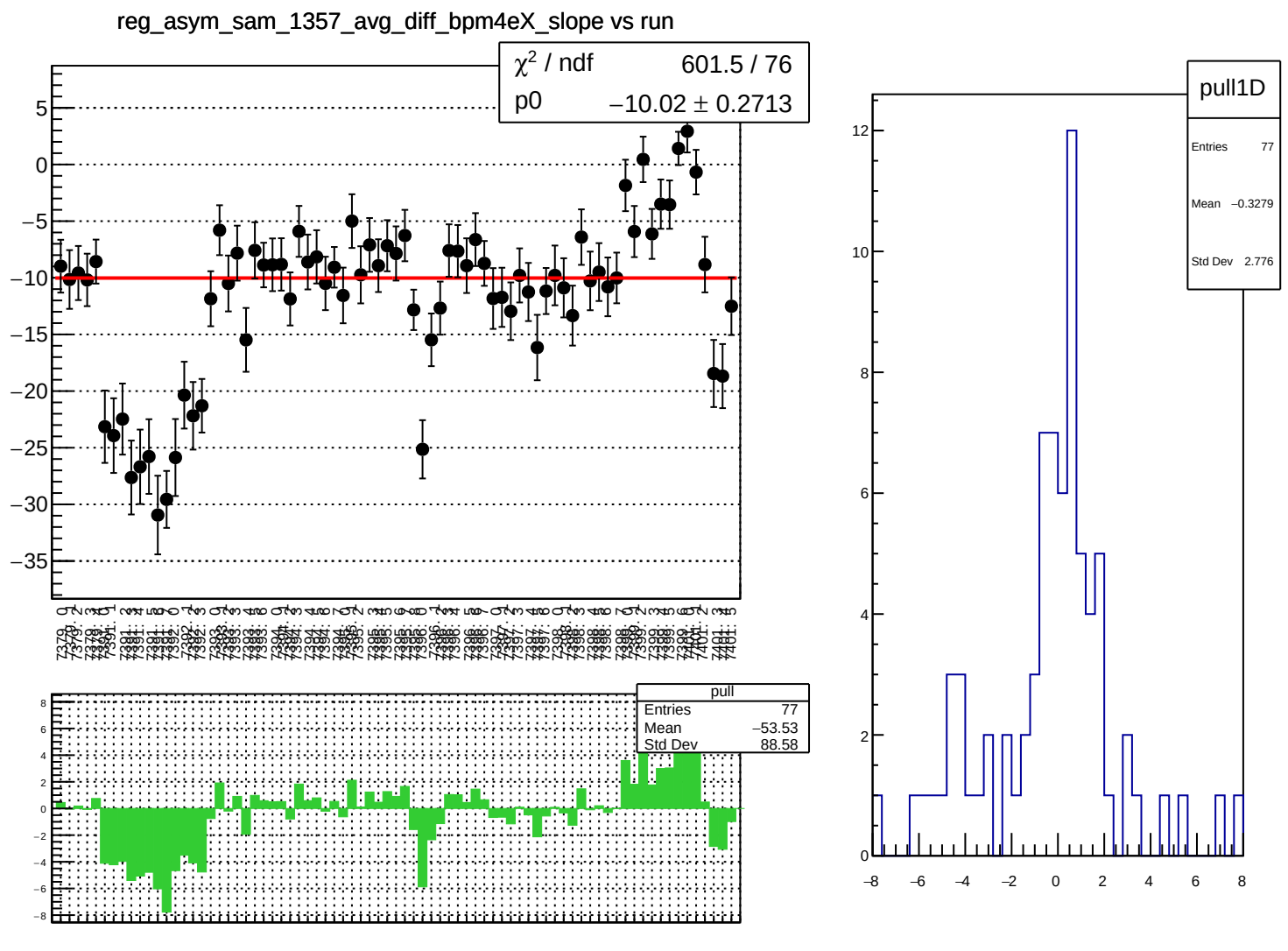

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 131.4 / 76
p0 −0.004452 ± 0.004575
pull
Entries 77
Mean 1312
Std Dev 1270

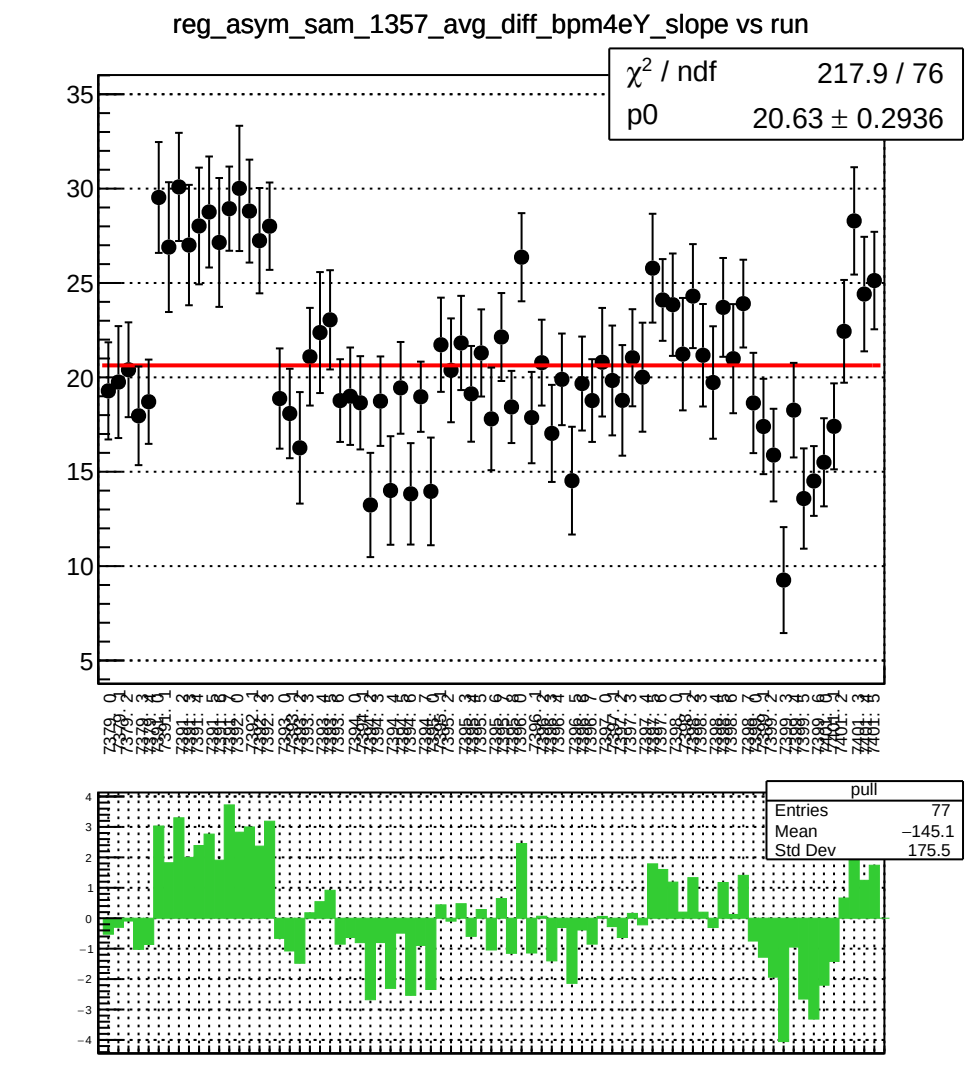

pull1D
Entries 77
Mean −0.01645
Std Dev 1.306

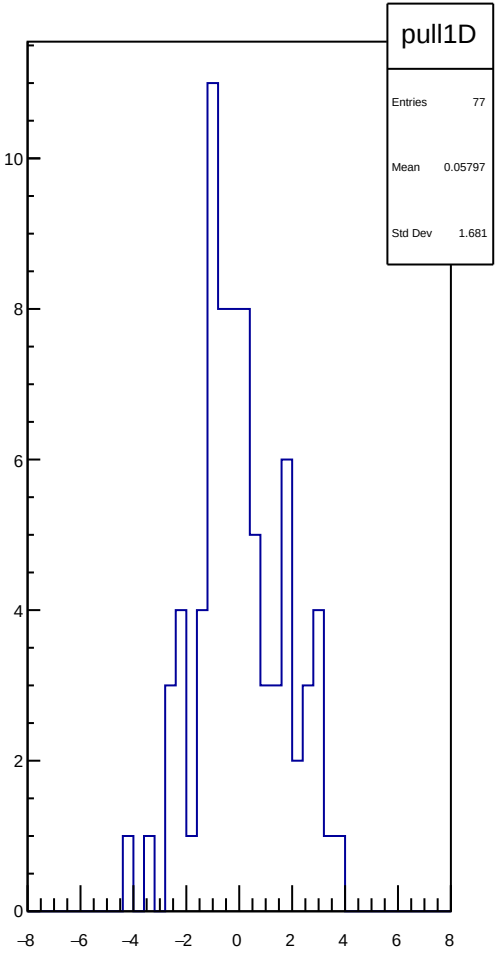

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 467.5 / 76
p0 −23.43 ± 0.2614
pull
Entries 77
Mean −78.57
Std Dev 117.1
pull1D
Entries 77
Mean 0.2381
Std Dev 2.453

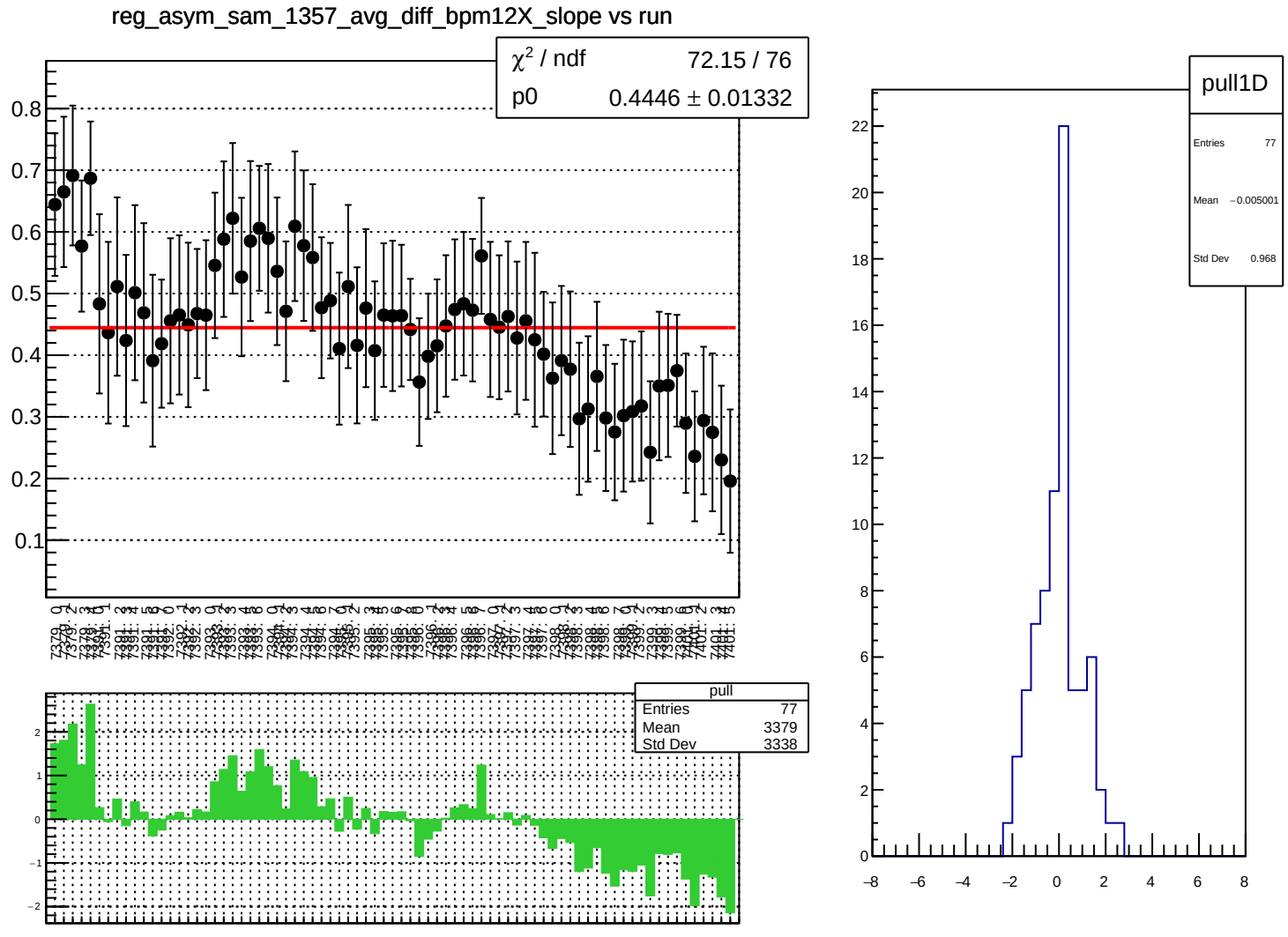

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 181.3 / 76
p0 13.36 ± 0.2753
pull
Entries 77
Mean 737.7
Std Dev 697.5

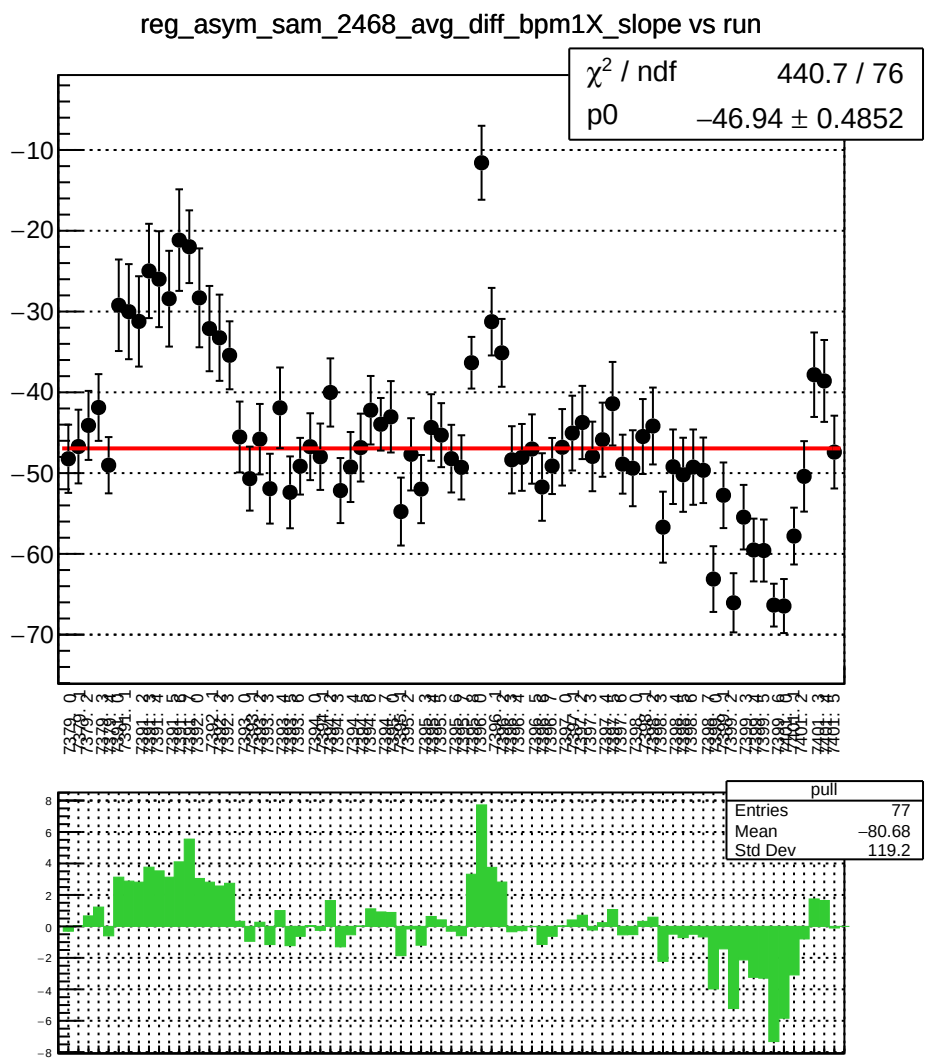

pull1D
Entries 77
Mean 0.01639
Std Dev 1.535

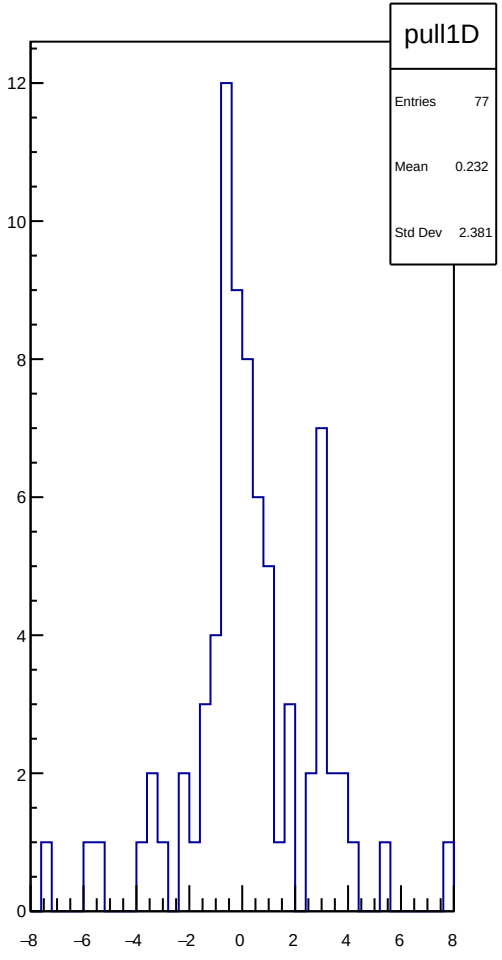

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 601.5 / 76
p0 −10.02 ± 0.2713
pull
Entries 77
Mean −53.53
Std Dev 88.58
pull1D
Entries 77
Mean −0.3279
Std Dev 2.776

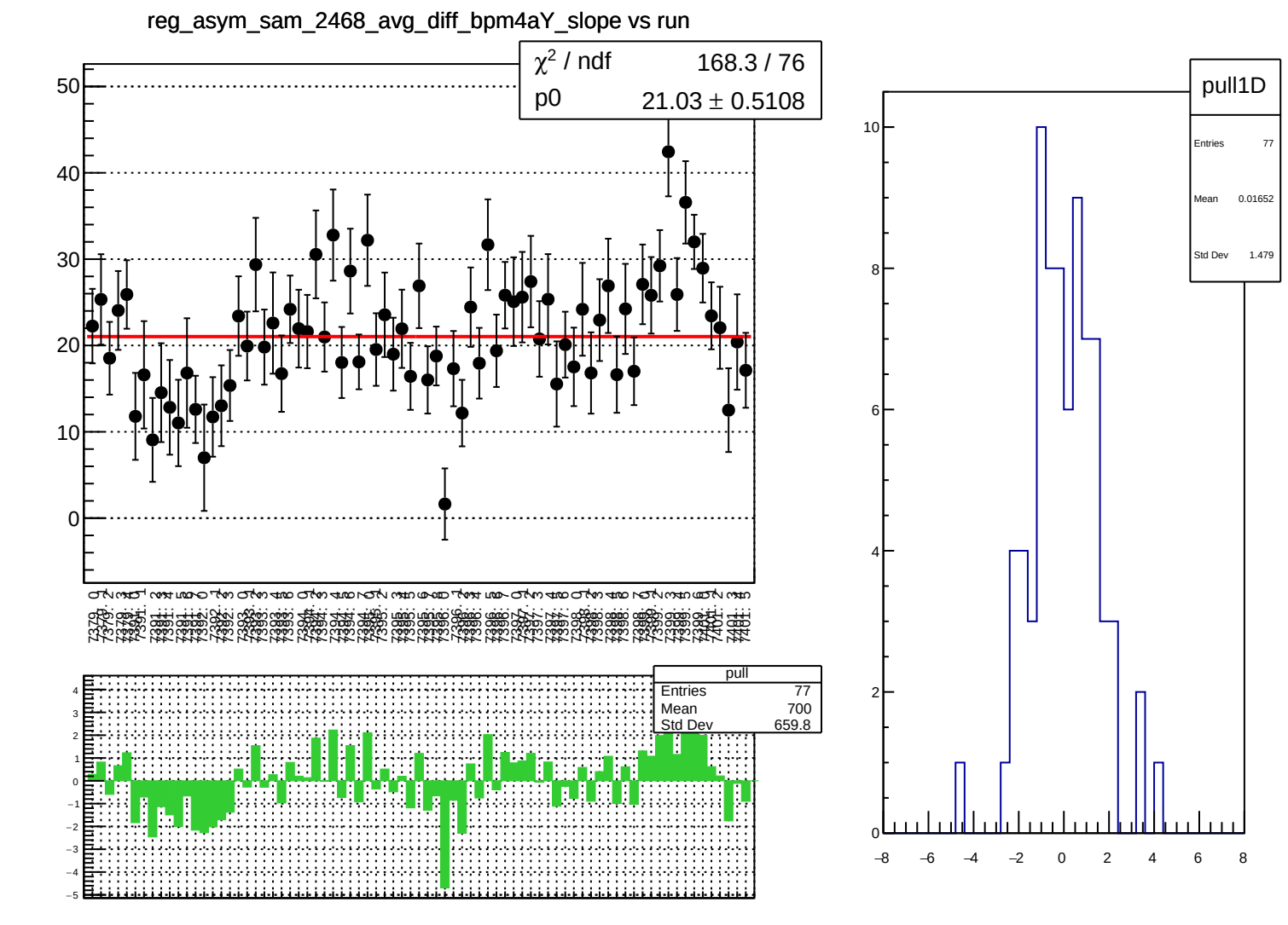

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 217.9 / 76
p0 20.63 ± 0.2936
pull
Entries 77
Mean −145.1
Std Dev 175.5

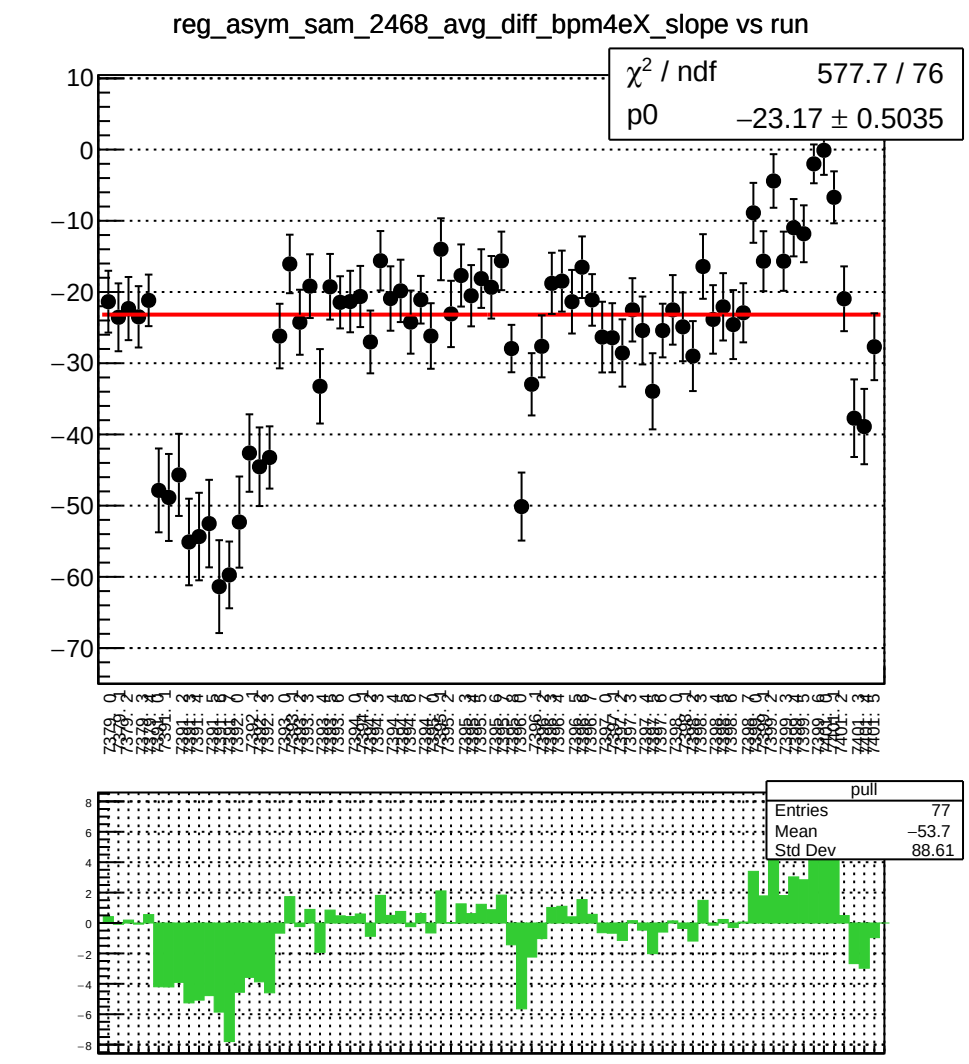

pull1D
Entries 77
Mean 0.05797
Std Dev 1.681

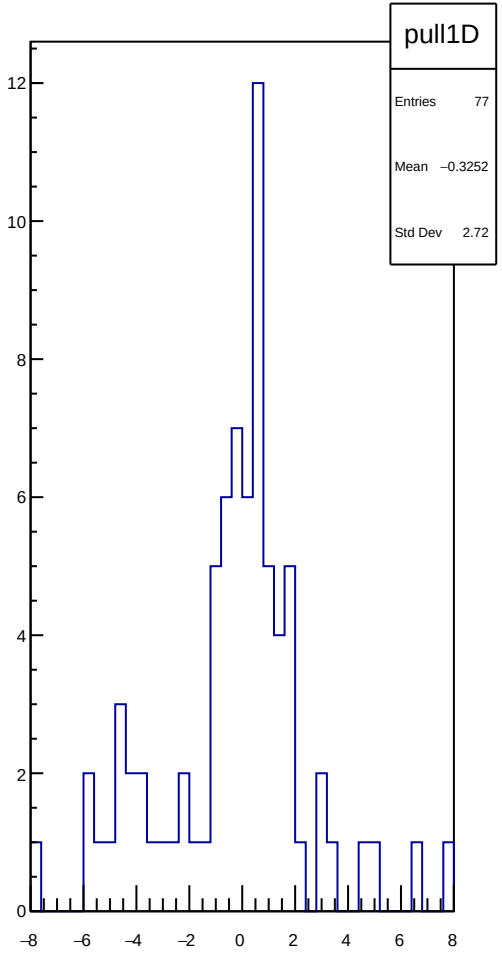

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 72.15 / 76
p0 0.4446 ± 0.01332
pull
Entries 77
Mean 3379
Std Dev 3338
pull1D
Entries 77
Mean −0.005001
Std Dev 0.968

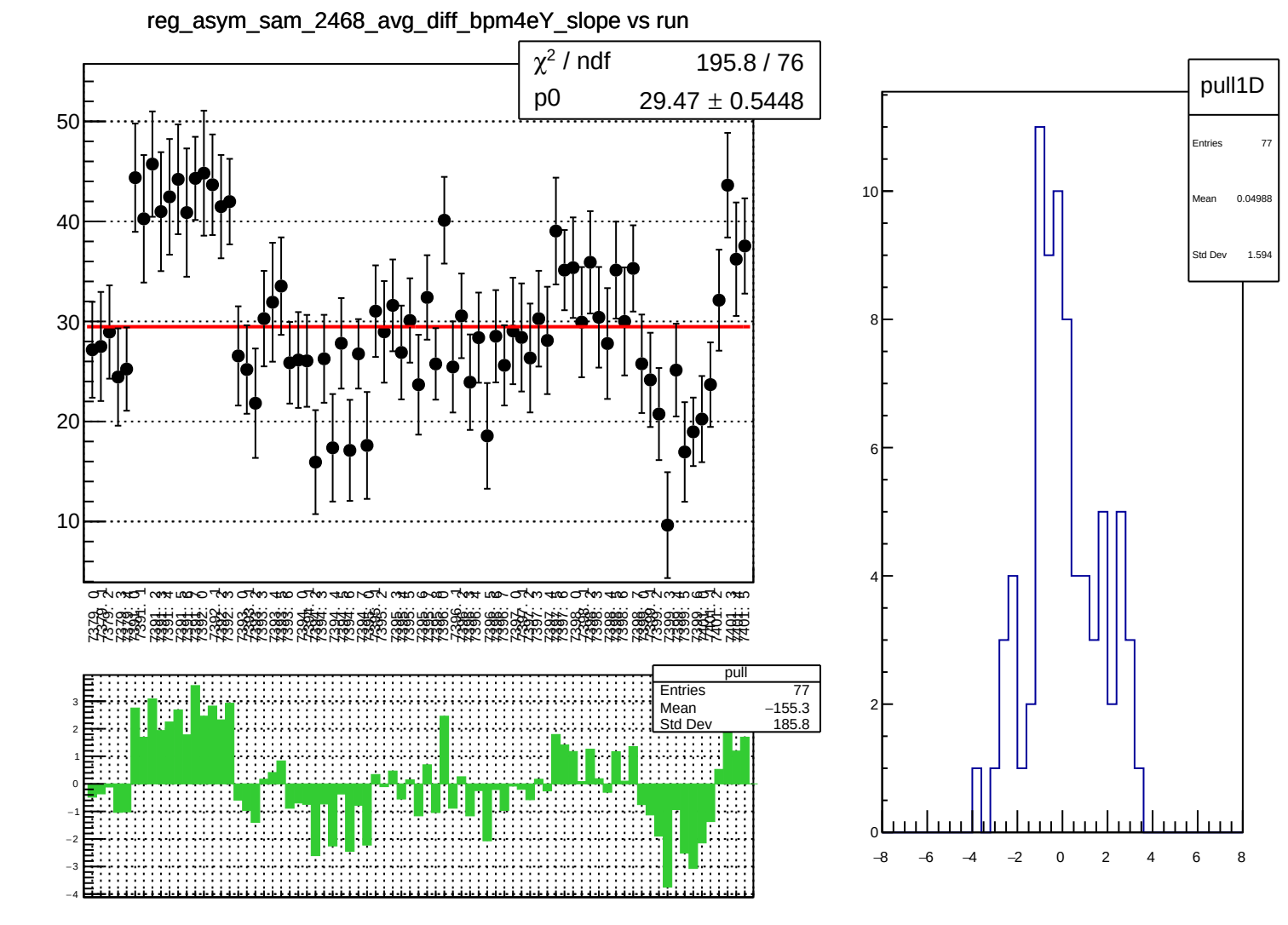

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 440.7 / 76
p0 −46.94 ± 0.4852
pull
Entries 77
Mean −80.68
Std Dev 119.2

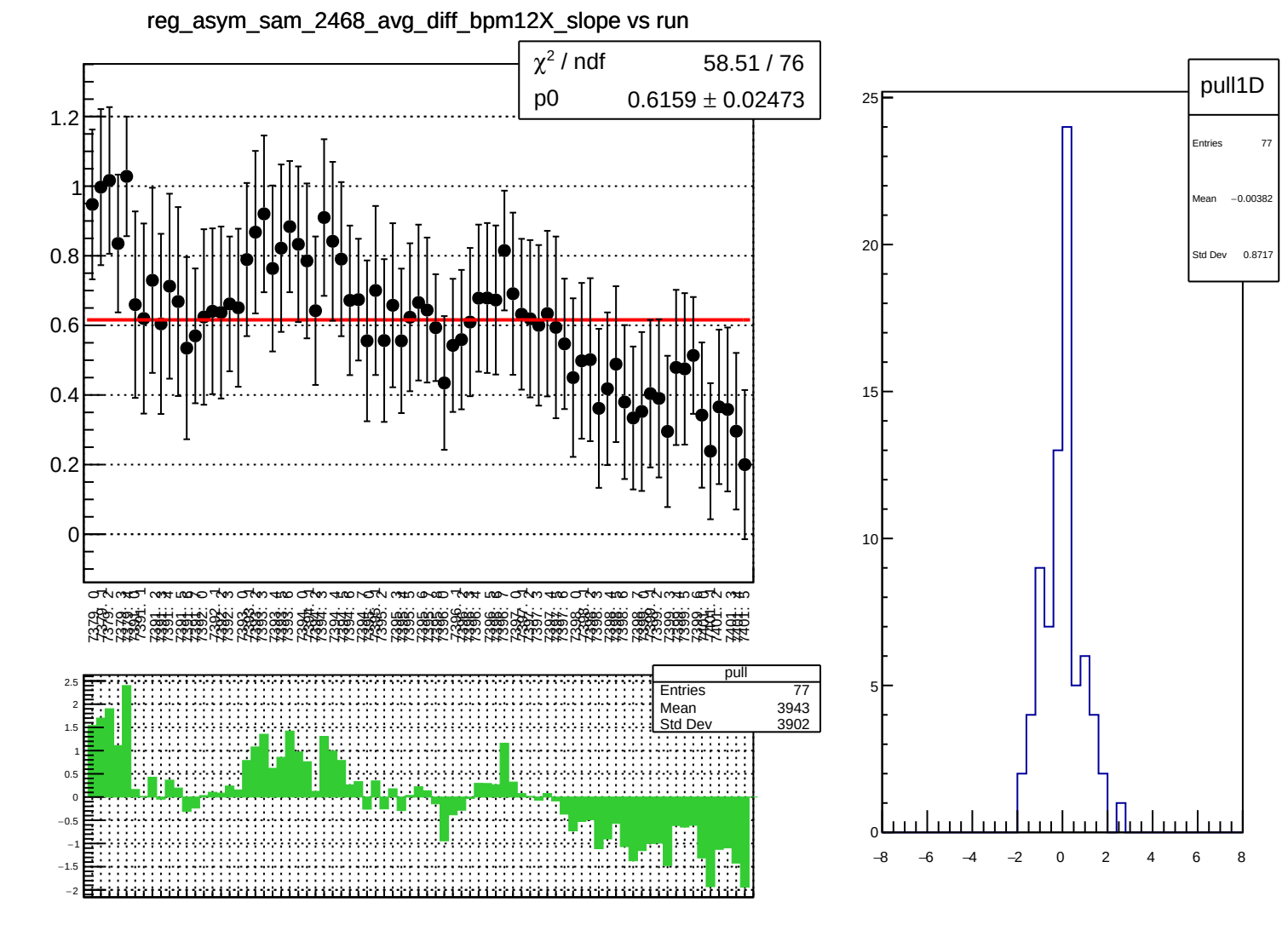

pull1D
Entries 77
Mean 0.232
Std Dev 2.381

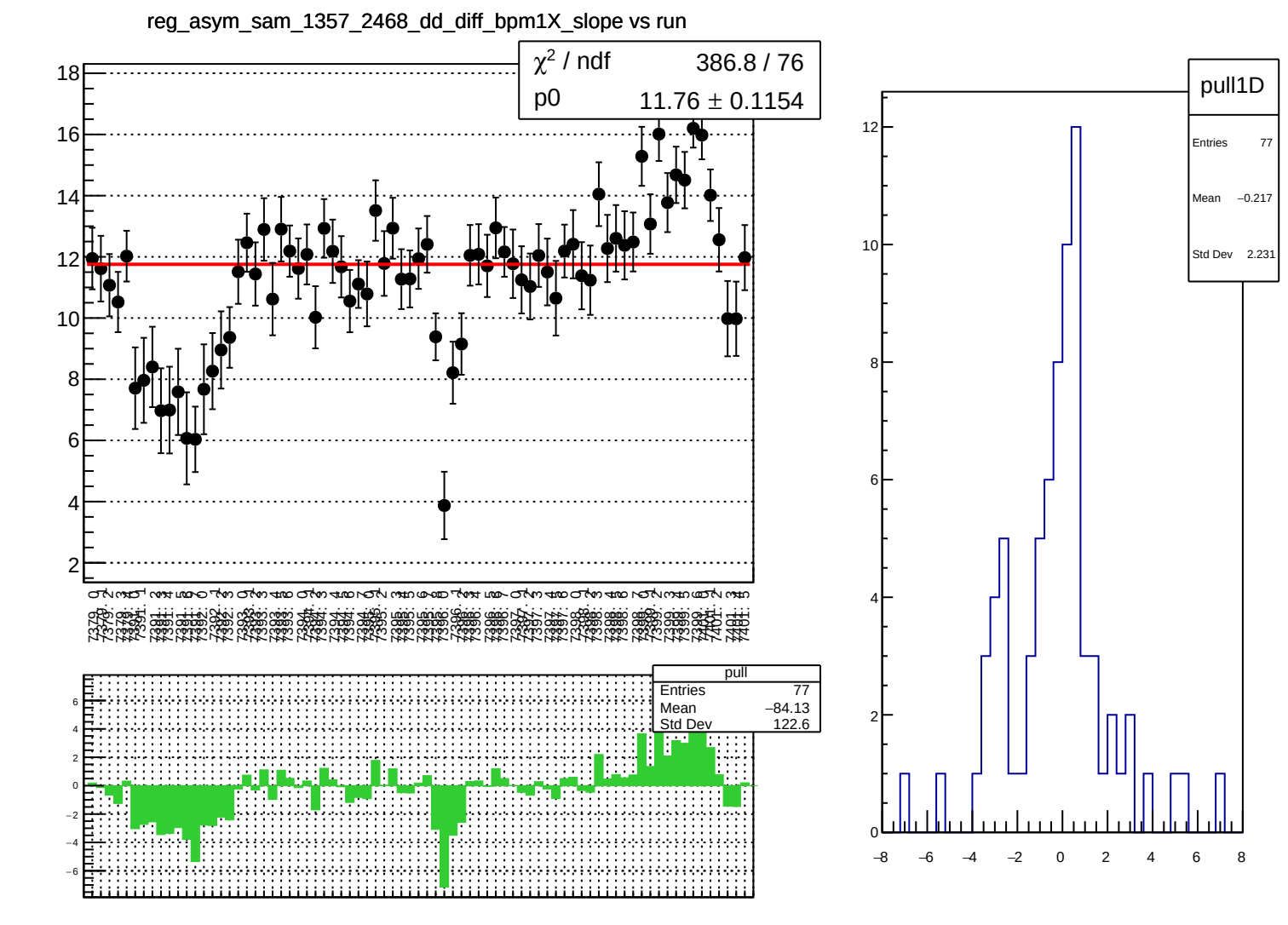

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 168.3 / 76
p0 21.03 ± 0.5108
pull
Entries 77
Mean 700
Std Dev 659.8
pull1D
Entries 77
Mean 0.01652
Std Dev 1.479

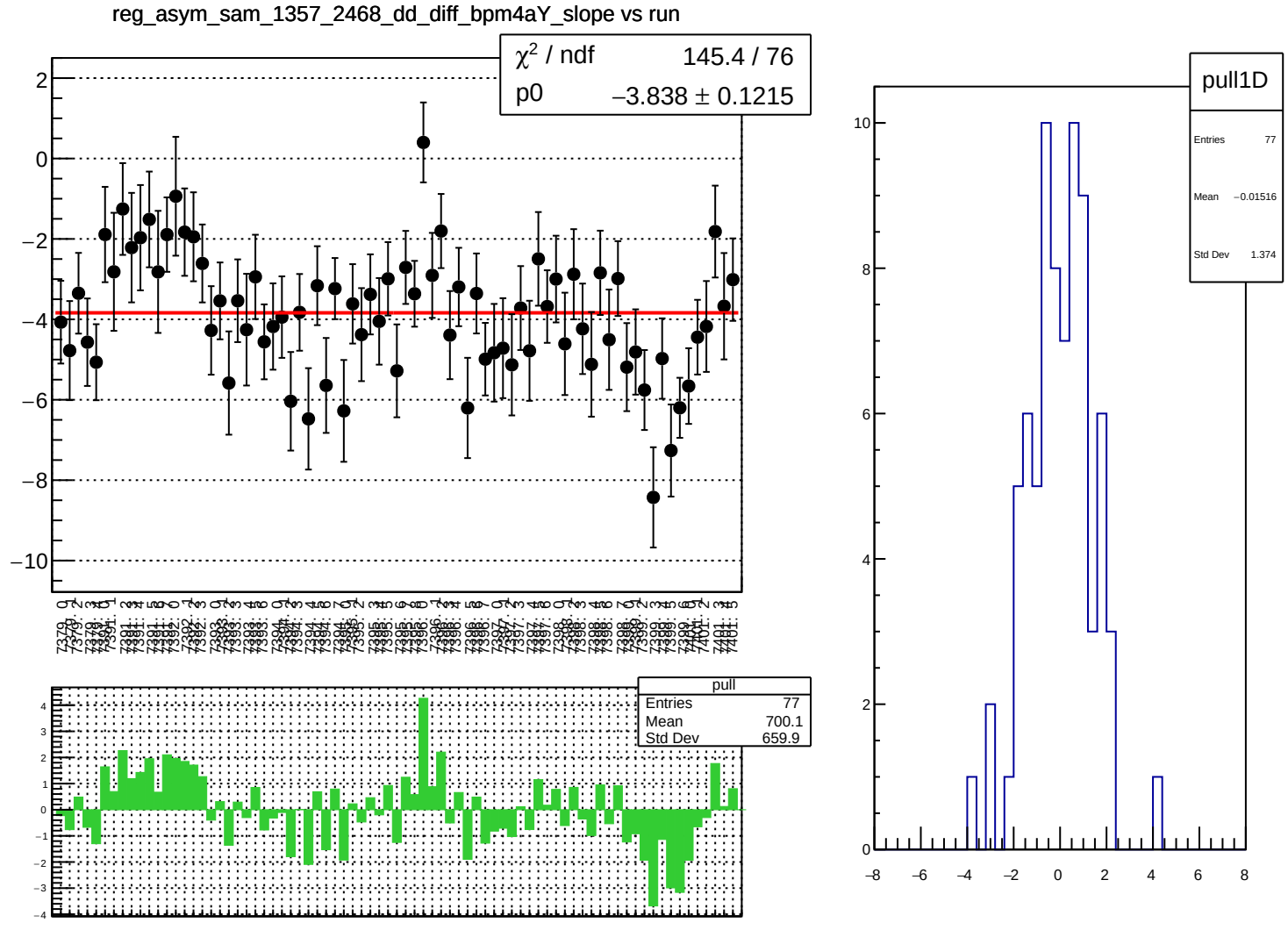

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 577.7 / 76
p0 −23.17 ± 0.5035
pull
Entries 77
Mean −53.7
Std Dev 88.61

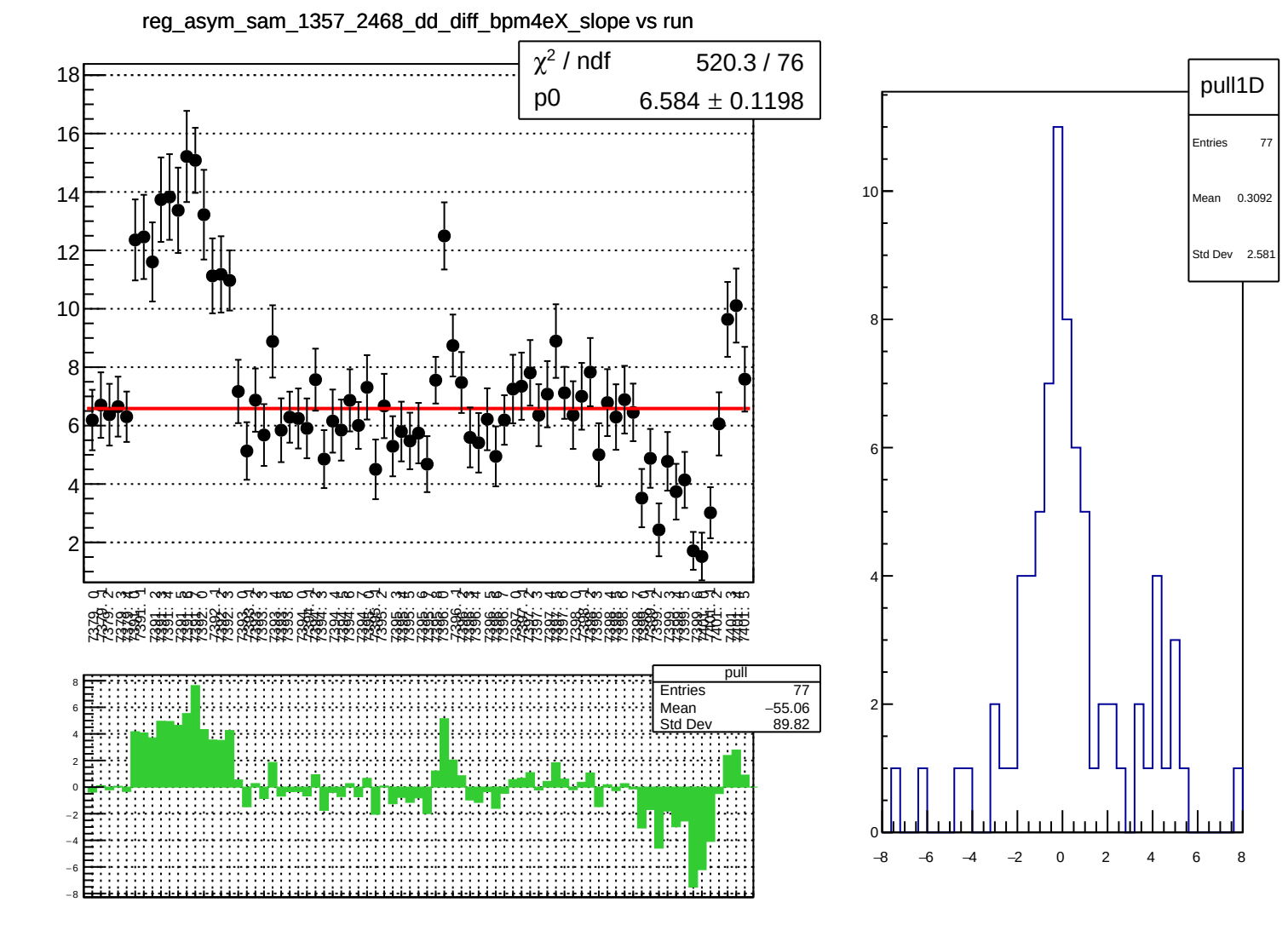

pull1D
Entries 77
Mean −0.3252
Std Dev 2.72

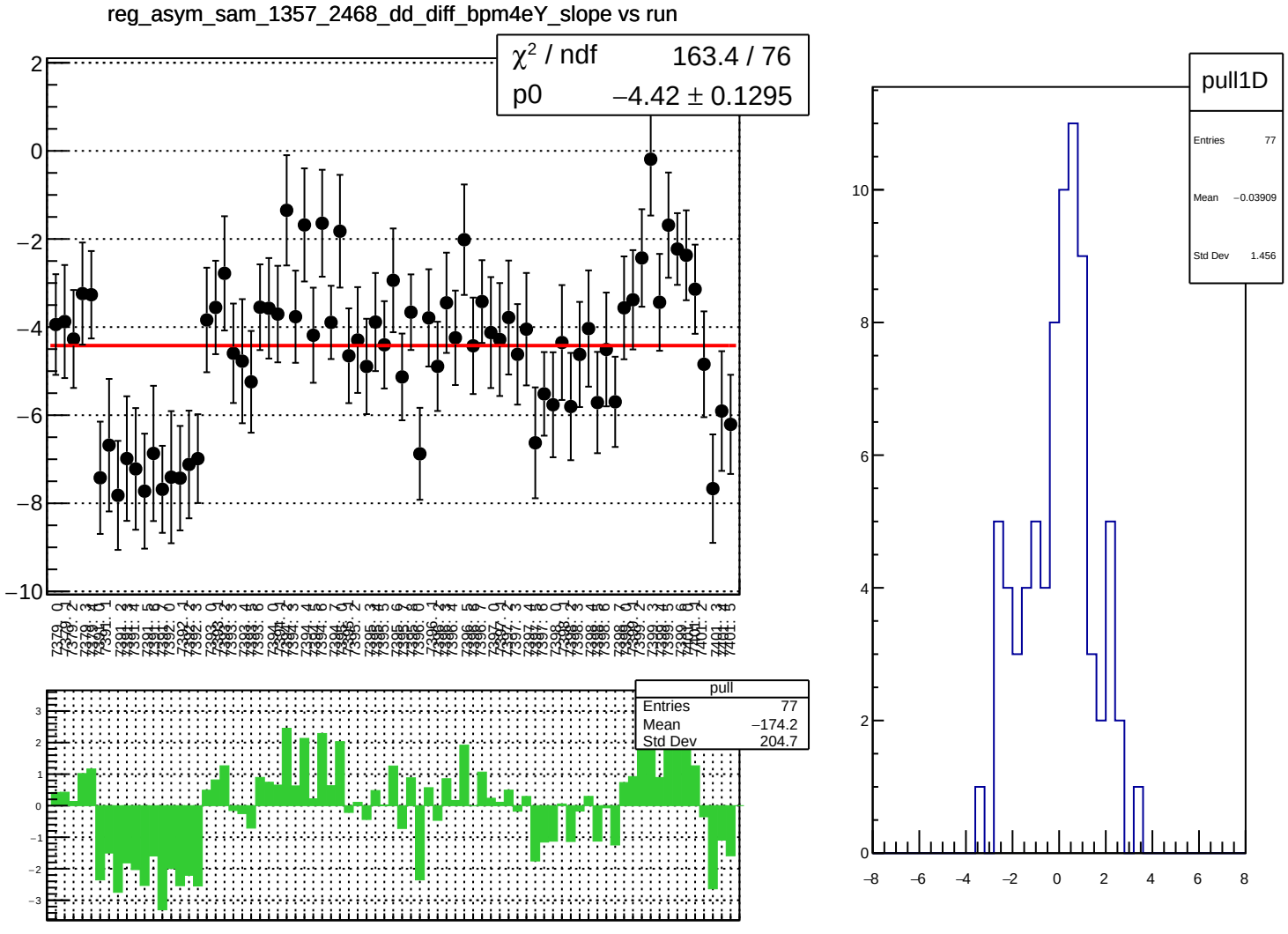

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 195.8 / 76
p0 29.47 ± 0.5448
pull
Entries 77
Mean −155.3
Std Dev 185.8
pull1D
Entries 77
Mean 0.04988
Std Dev 1.594

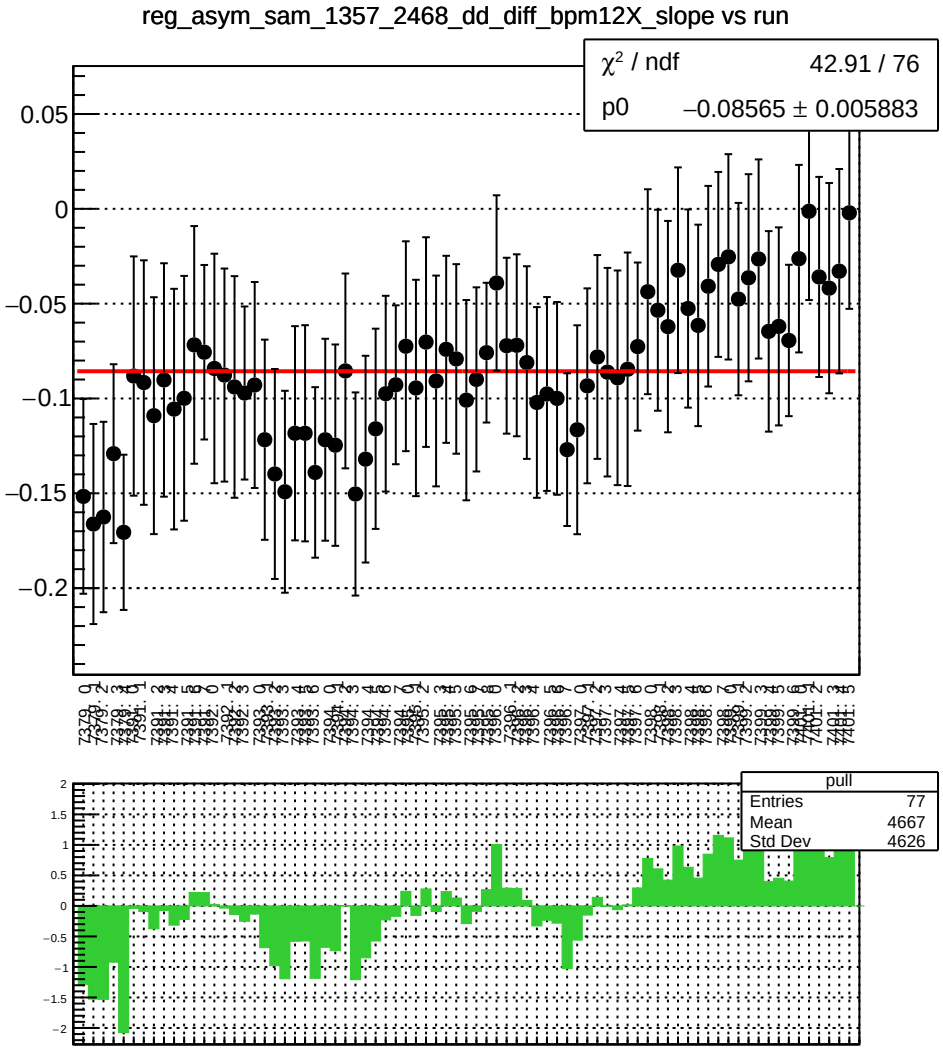

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 58.51 / 76
p0 0.6159 ± 0.02473
pull
Entries 77
Mean 3943
Std Dev 3902
pull1D
Entries 77
Mean −0.00382
Std Dev 0.8717

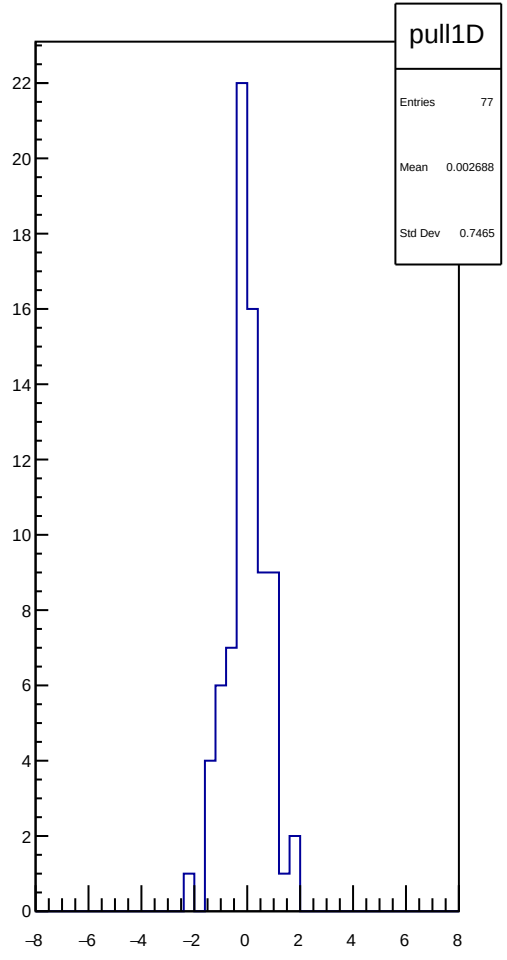

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 386.8 / 76
p0 11.76 ± 0.1154
pull
Entries 77
Mean −84.13
Std Dev 122.6
pull1D
Entries 77
Mean −0.217
Std Dev 2.231

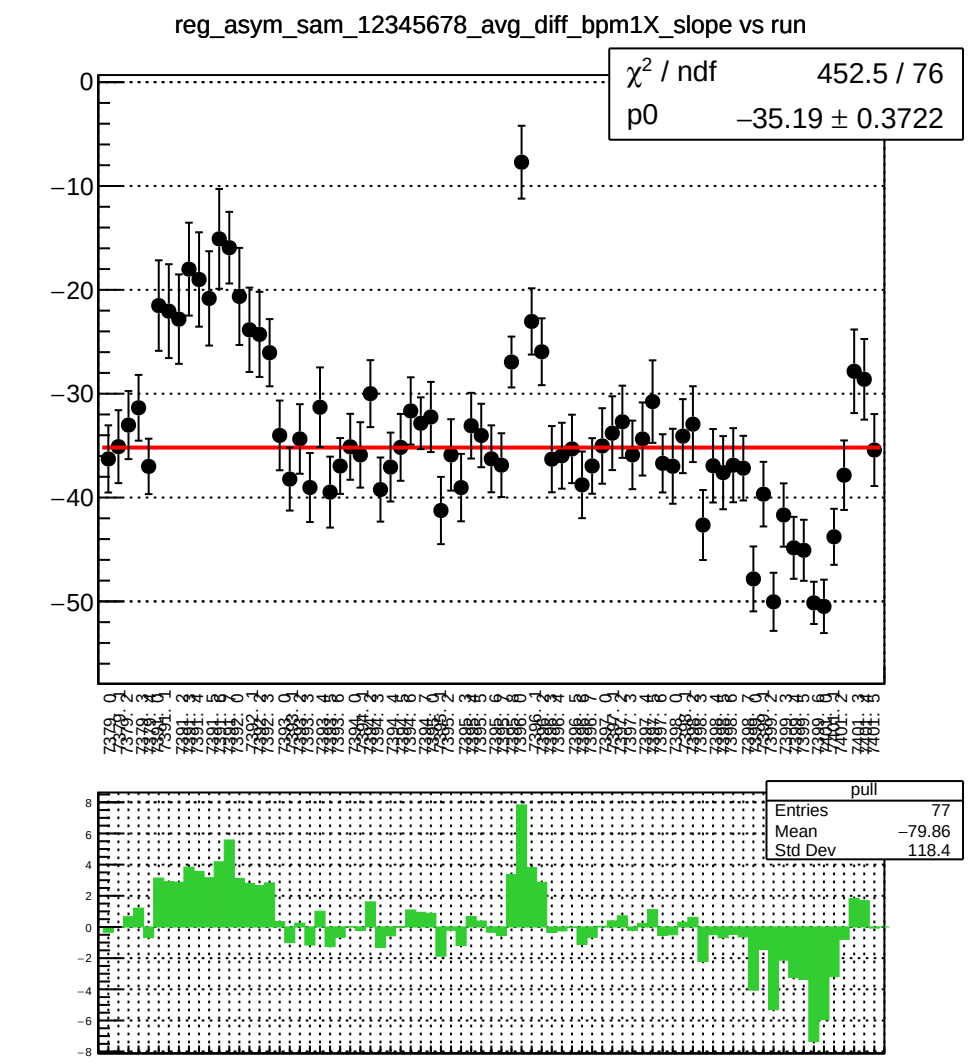

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 145.4 / 76
p0 −3.838 ± 0.1215
pull
Entries 77
Mean 700.1
Std Dev 659.9
pull1D
Entries 77
Mean −0.01516
Std Dev 1.374

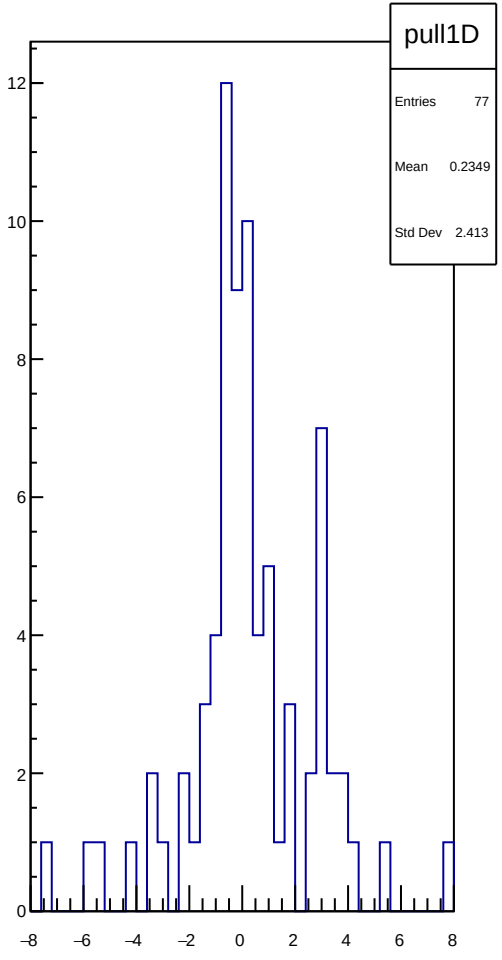

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 520.3 / 76
p0 6.584 ± 0.1198
pull
Entries 77
Mean −55.06
Std Dev 89.82
pull1D
Entries 77
Mean 0.3092
Std Dev 2.581

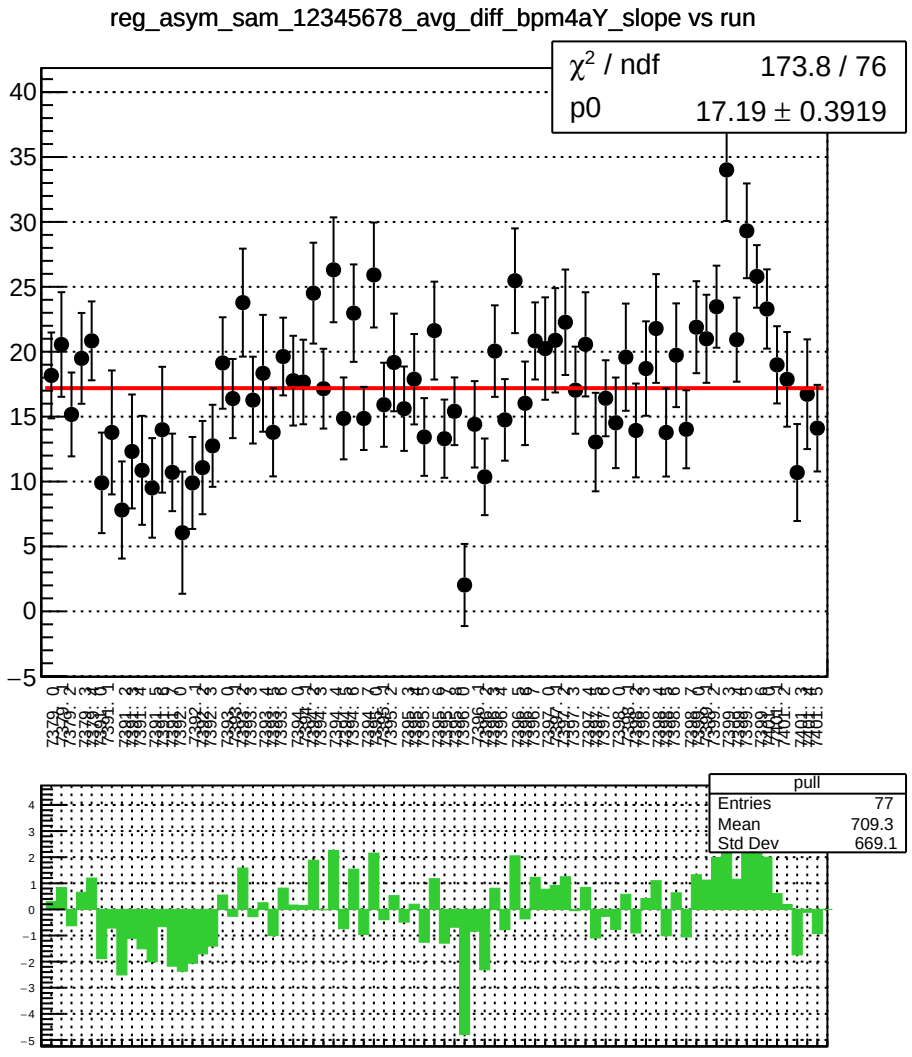

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 163.4 / 76
p0 −4.42 ± 0.1295
pull
Entries 77
Mean −174.2
Std Dev 204.7
pull1D
Entries 77
Mean −0.03909
Std Dev 1.456

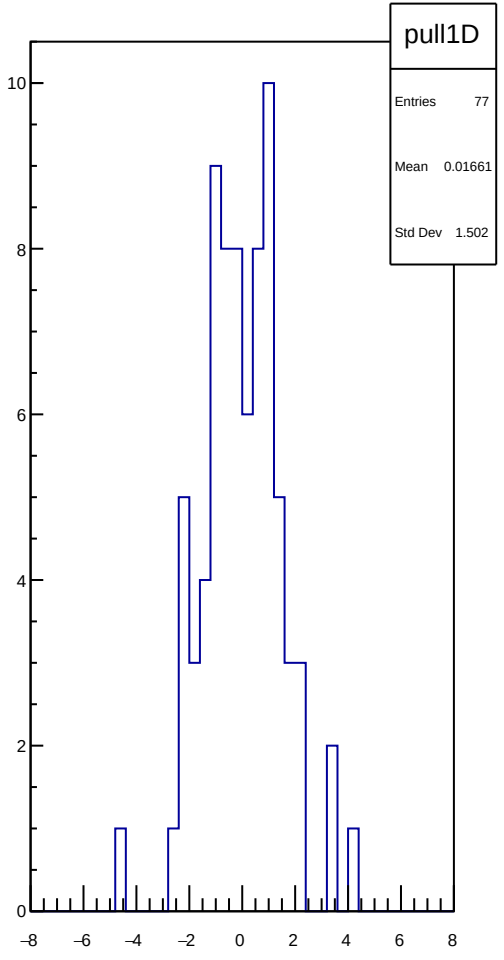

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 42.91 / 76
p0 −0.08565 ± 0.005883
pull
Entries 77
Mean 4667
Std Dev 4626

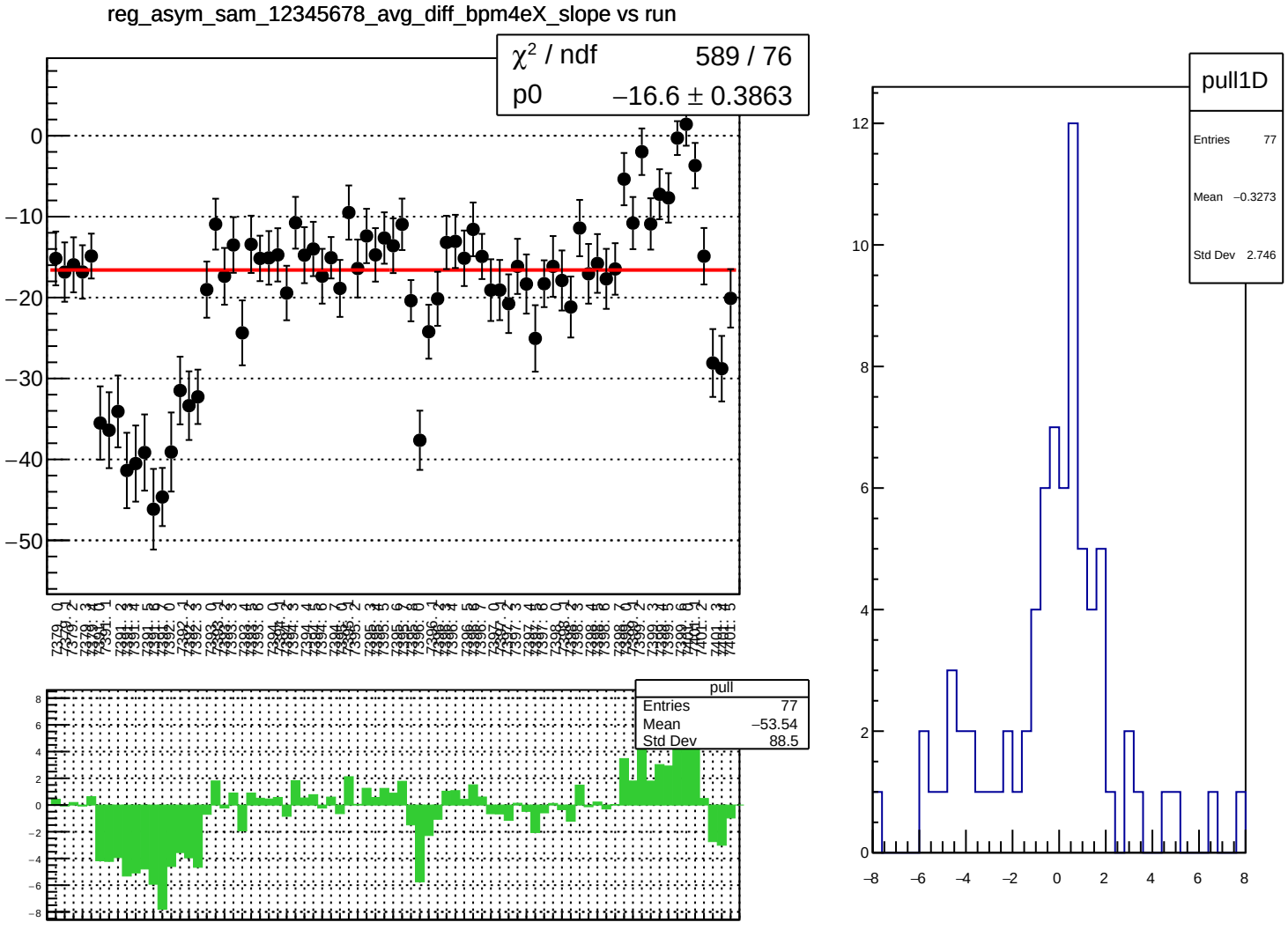

pull1D
Entries 77
Mean 0.002688
Std Dev 0.7465

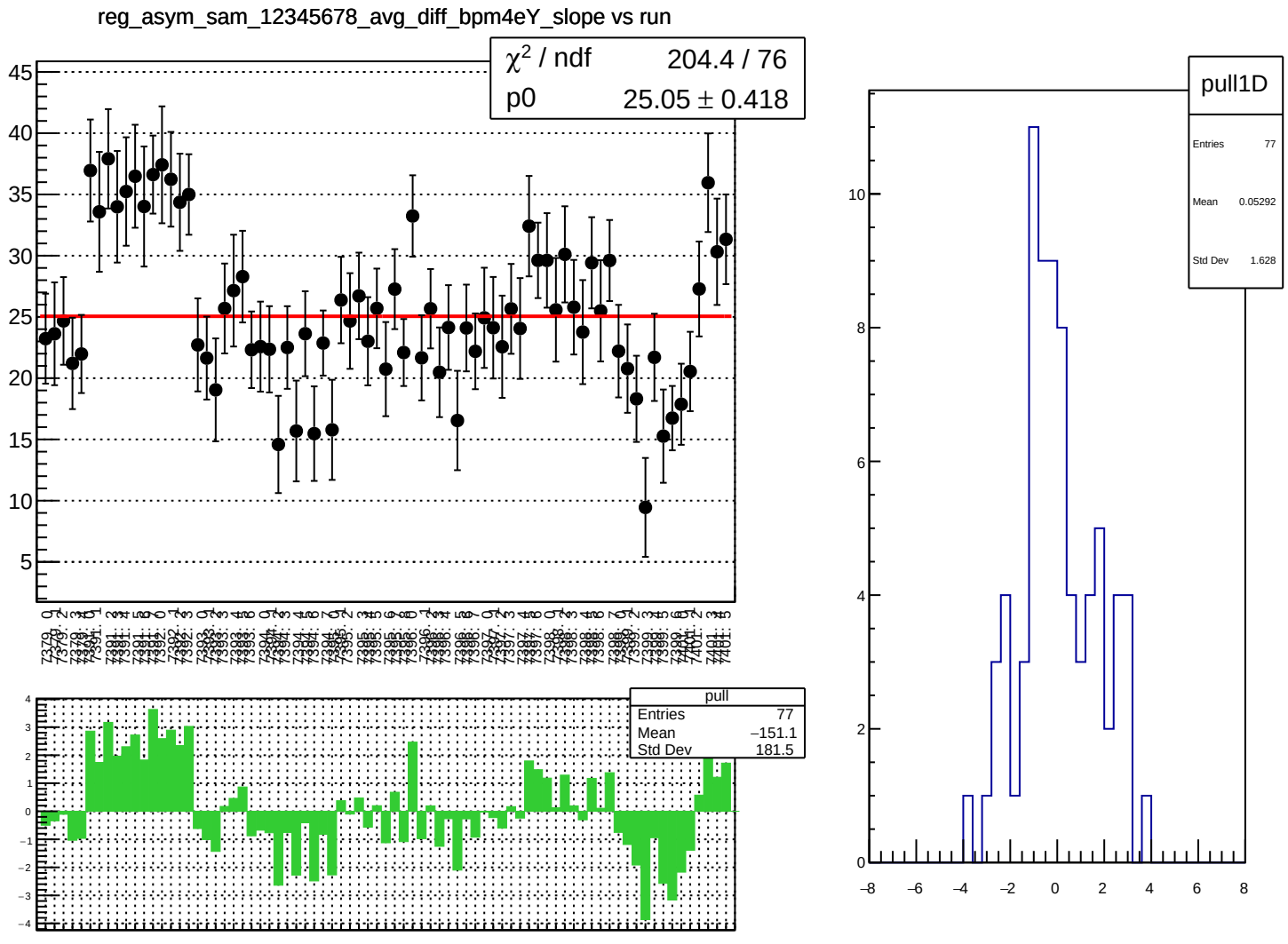

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 452.5 / 76
p0 −35.19 ± 0.3722
pull
Entries 77
Mean −79.86
Std Dev 118.4

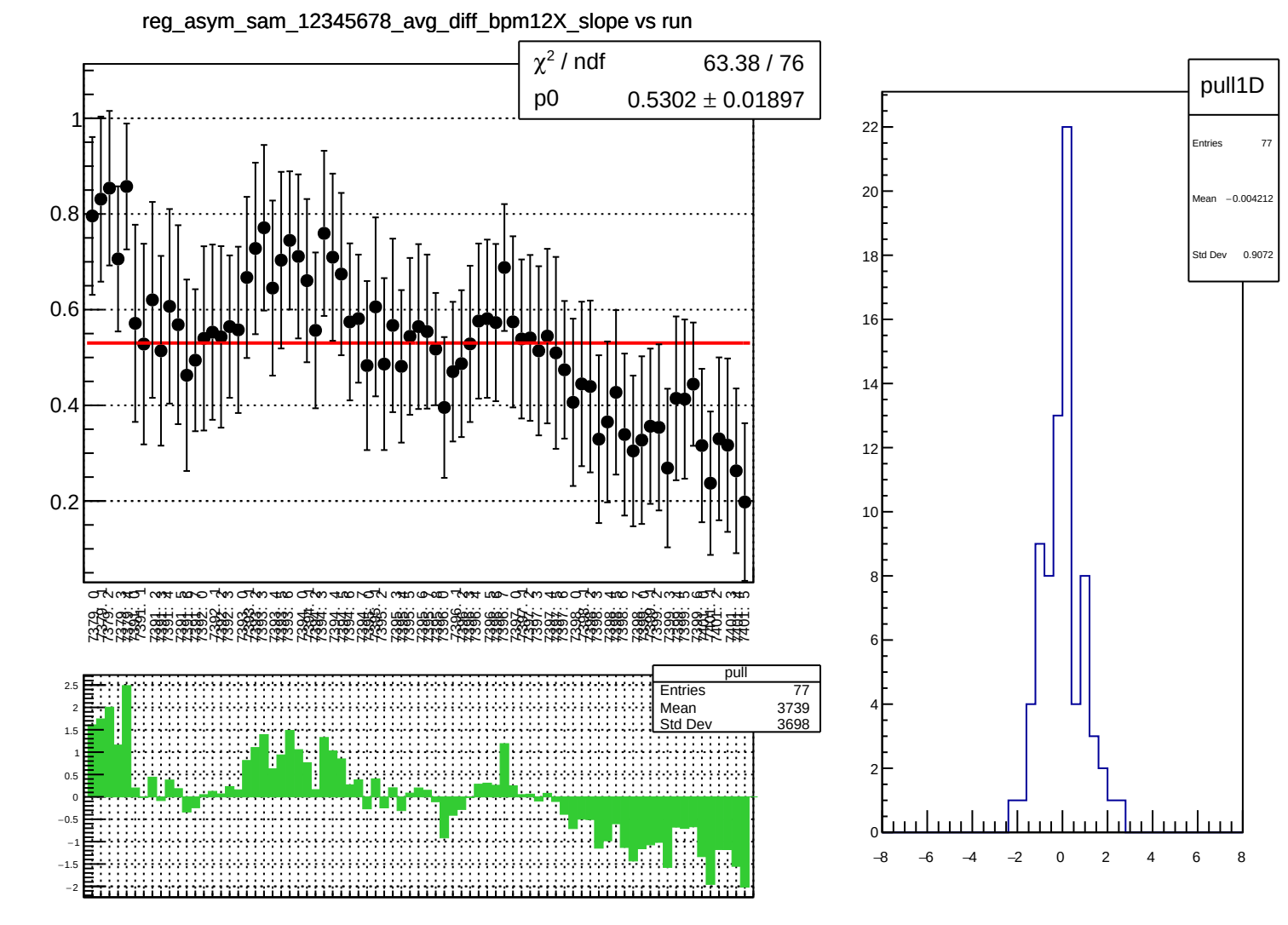

pull1D
Entries 77
Mean 0.2349
Std Dev 2.413

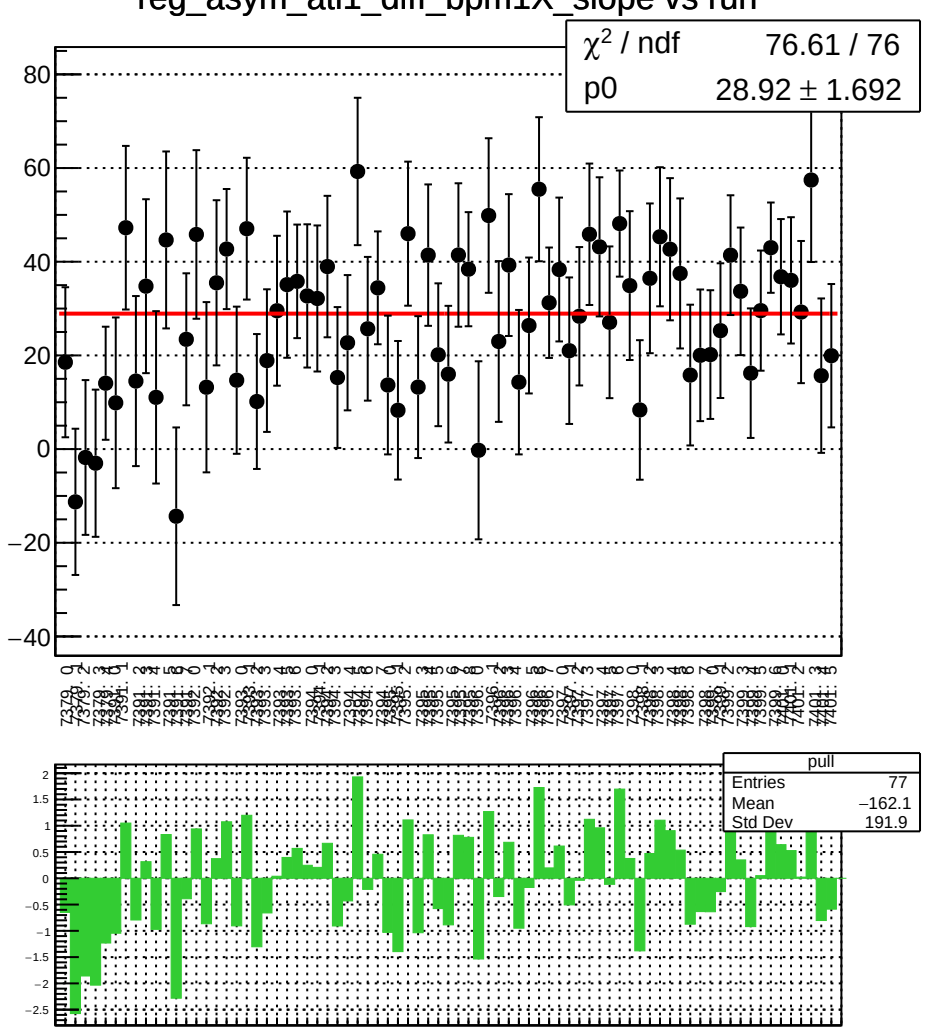

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 173.8 / 76
p0 17.19 ± 0.3919
pull
Entries 77
Mean 709.3
Std Dev 669.1

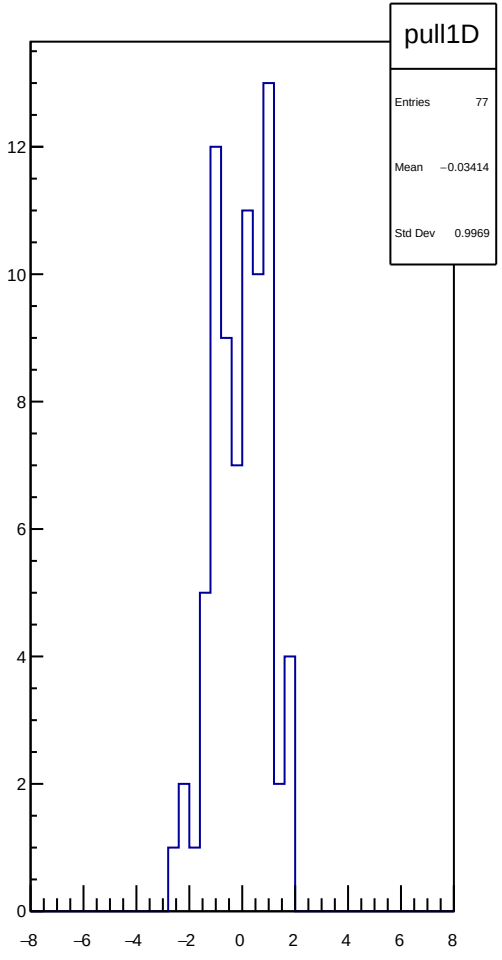

pull1D
Entries 77
Mean 0.01661
Std Dev 1.502

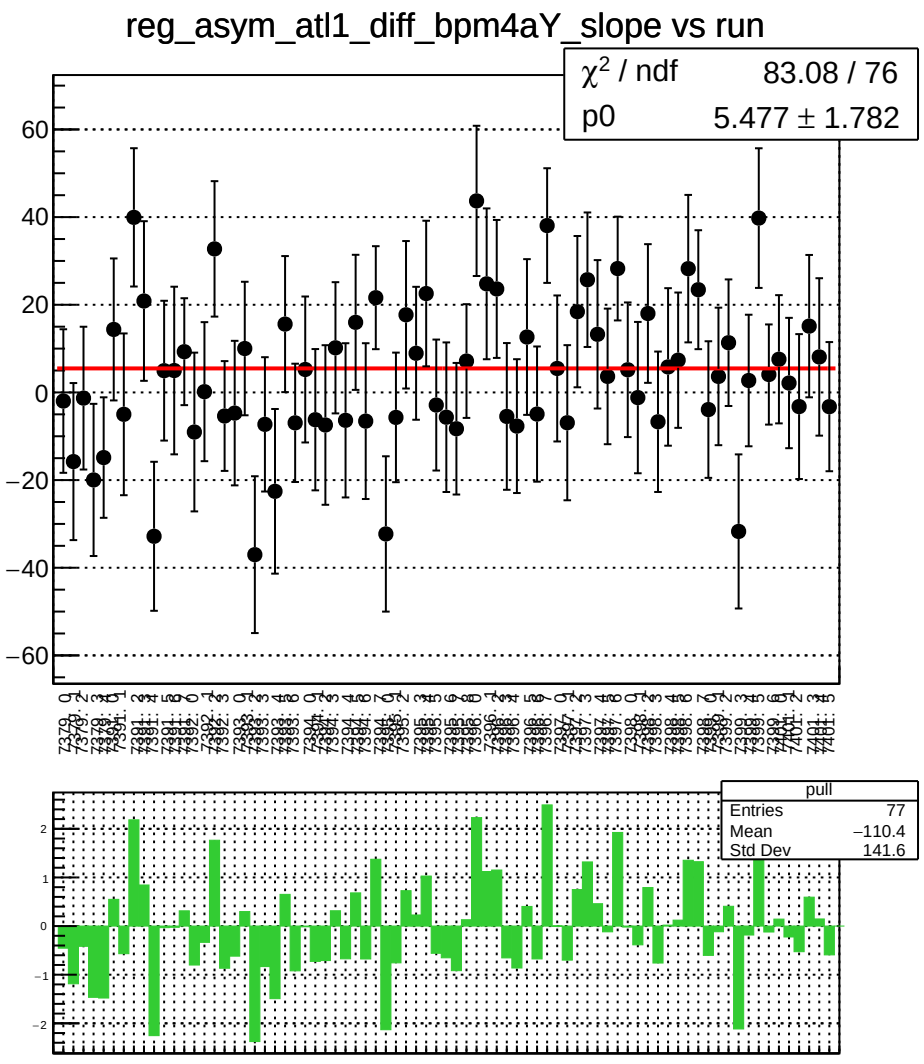

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 589 / 76
p0 −16.6 ± 0.3863
pull
Entries 77
Mean −53.54
Std Dev 88.5
pull1D
Entries 77
Mean −0.3273
Std Dev 2.746

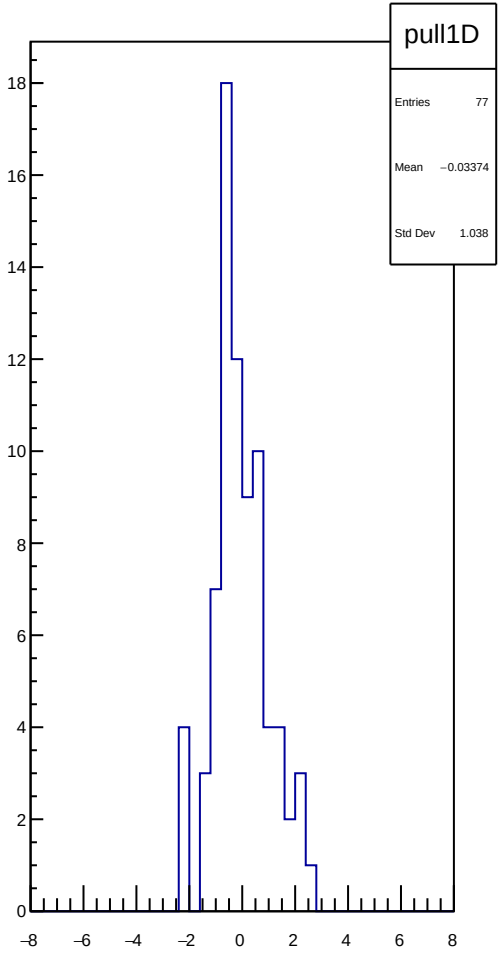

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 204.4 / 76
p0 25.05 ± 0.418
pull
Entries 77
Mean −151.1
Std Dev 181.5
pull1D
Entries 77
Mean 0.05292
Std Dev 1.628

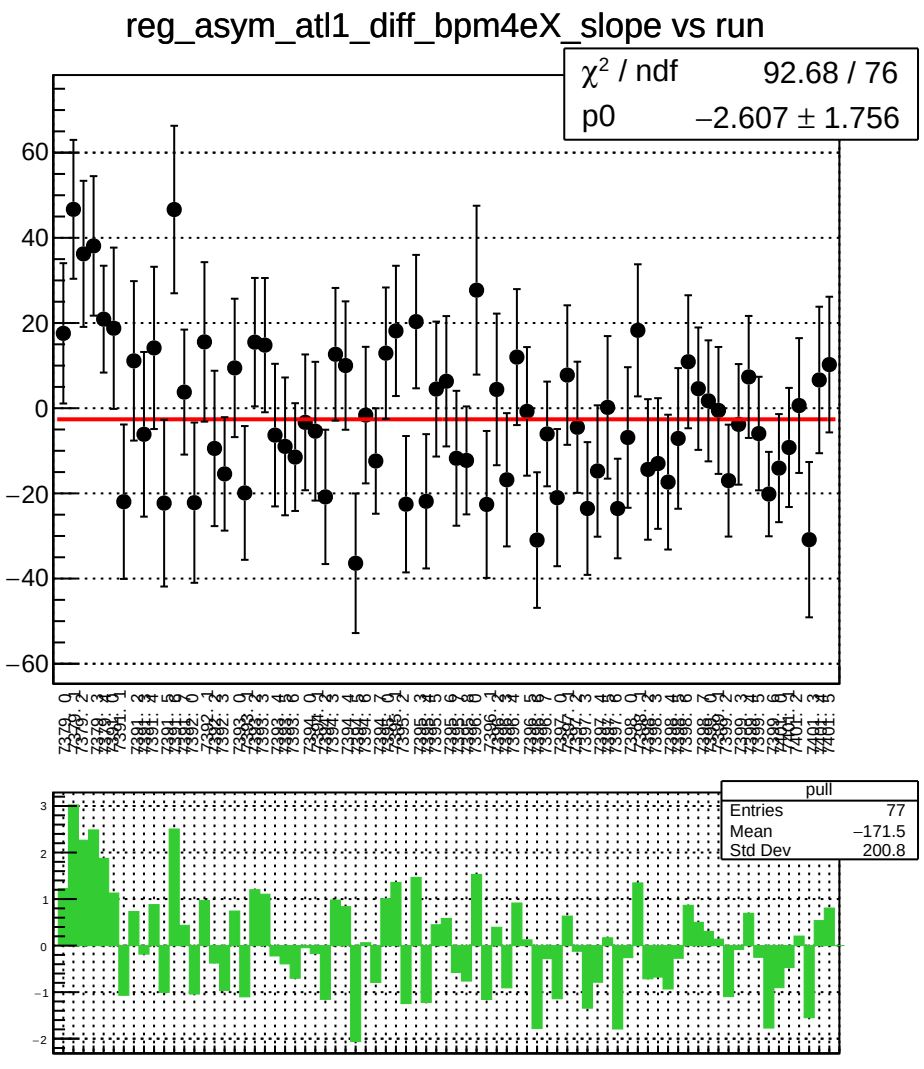

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 63.38 / 76
p0 0.5302 ± 0.01897
pull
Entries 77
Mean 3739
Std Dev 3698
pull1D
Entries 77
Mean −0.004212
Std Dev 0.9072

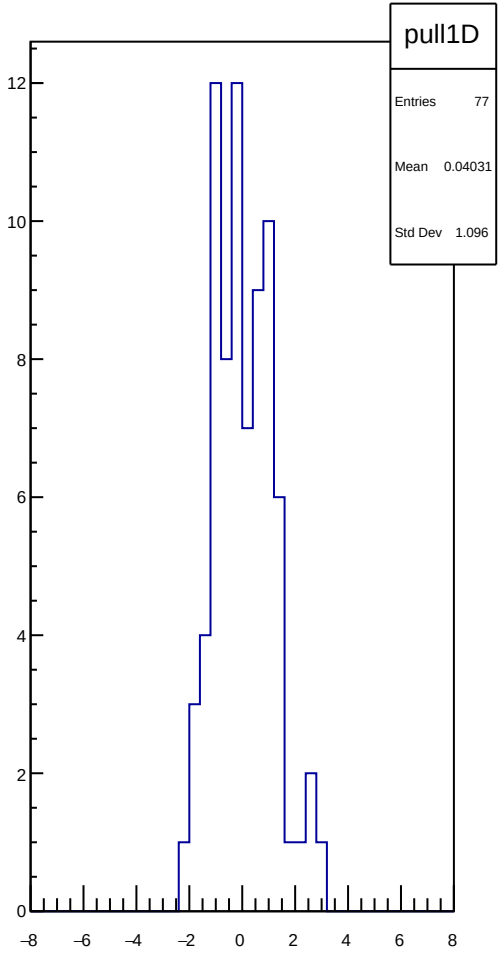

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 76.61 / 76
p0 28.92 ± 1.692
pull
Entries 77
Mean −162.1
Std Dev 191.9

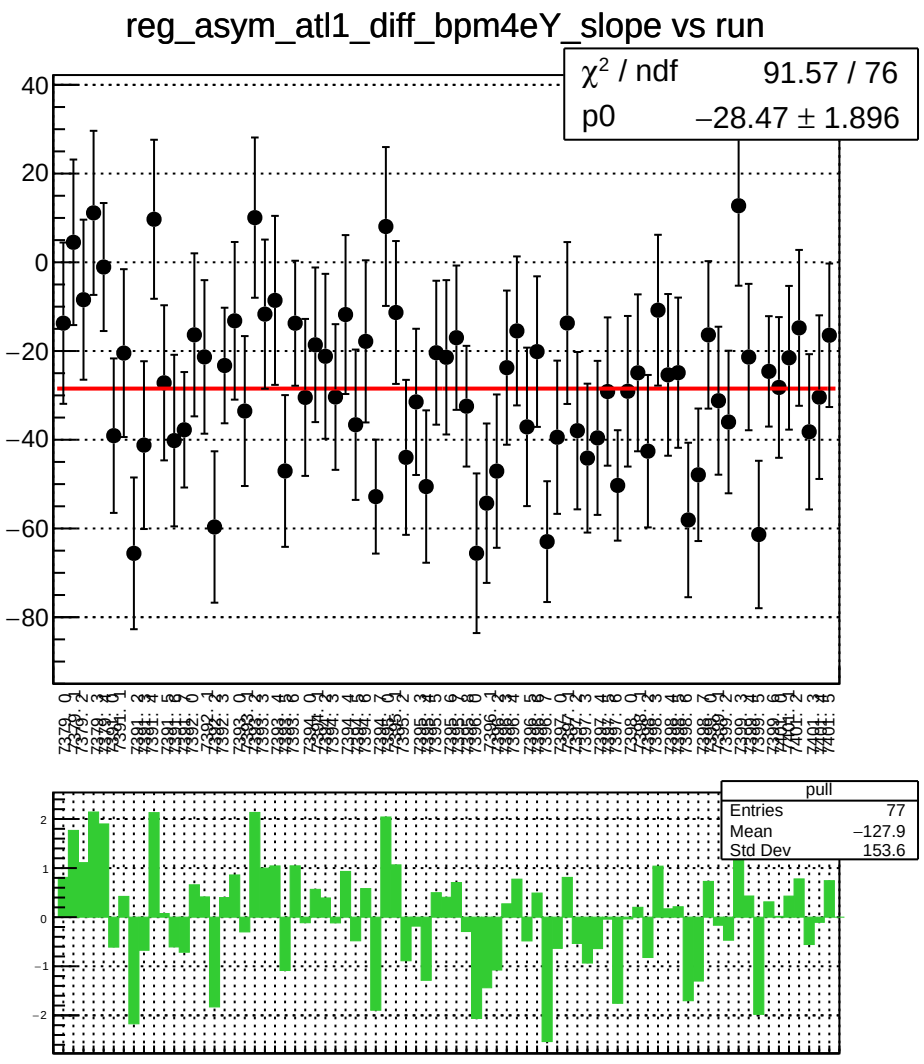

pull1D
Entries 77
Mean −0.03414
Std Dev 0.9969

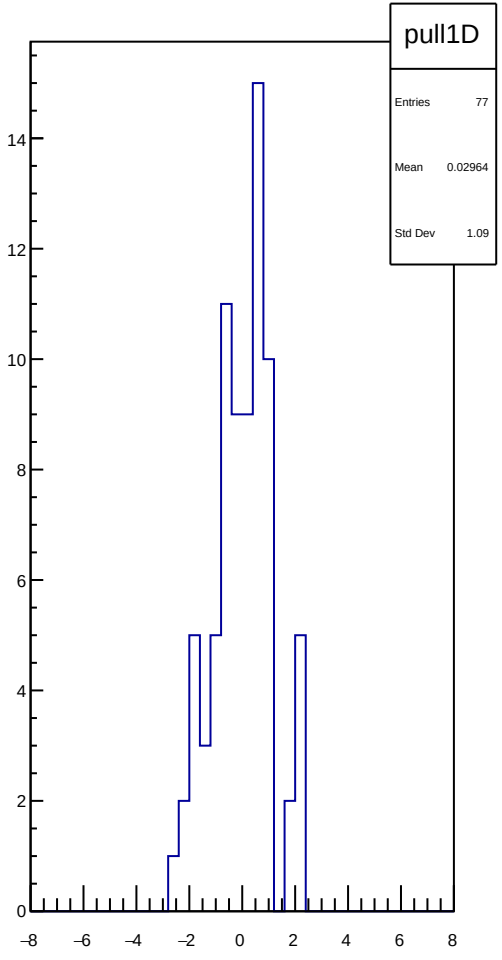

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 83.08 / 76
p0 5.477 ± 1.782
pull
Entries 77
Mean −110.4
Std Dev 141.6

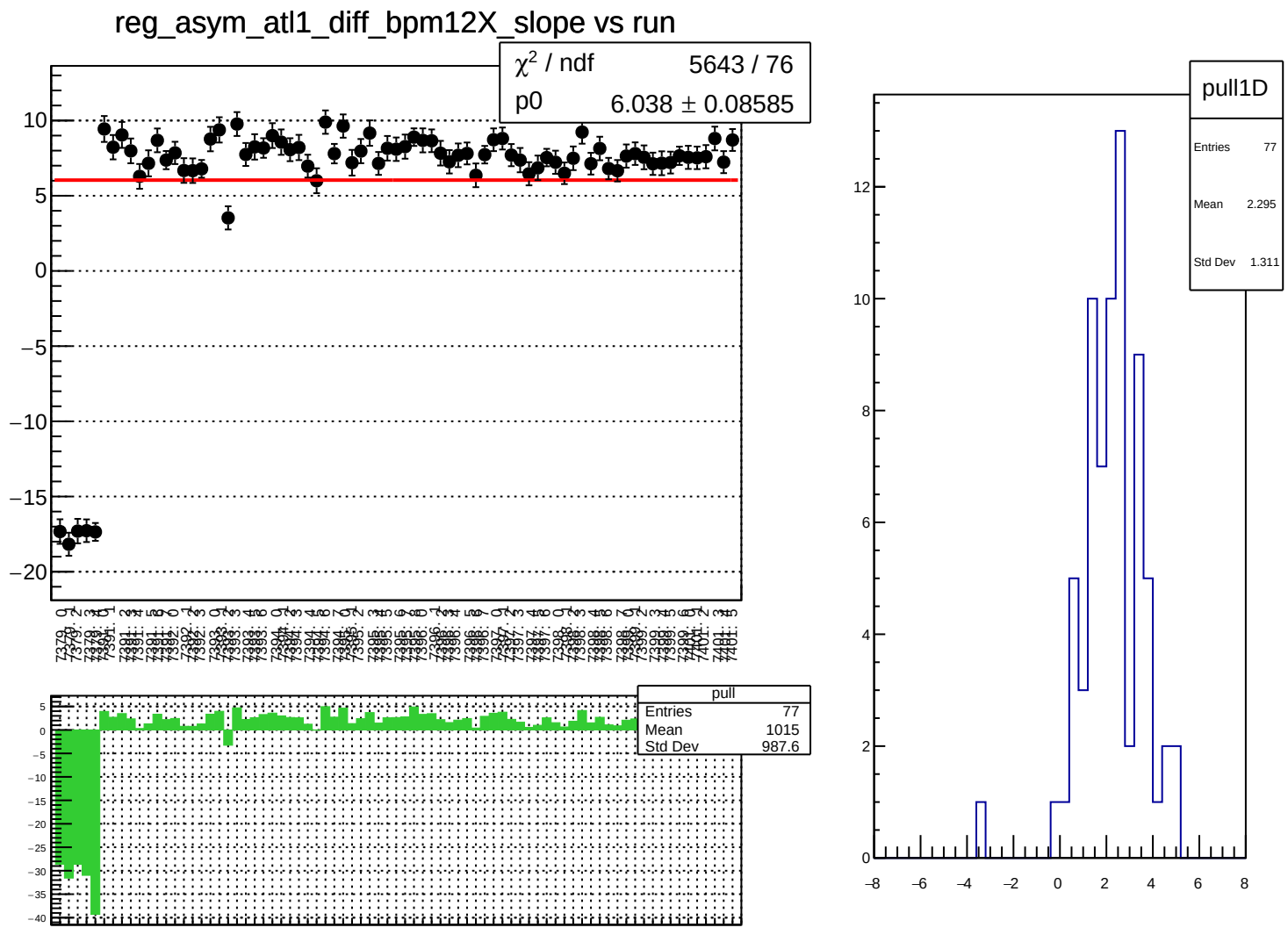

pull1D
Entries 77
Mean −0.03374
Std Dev 1.038

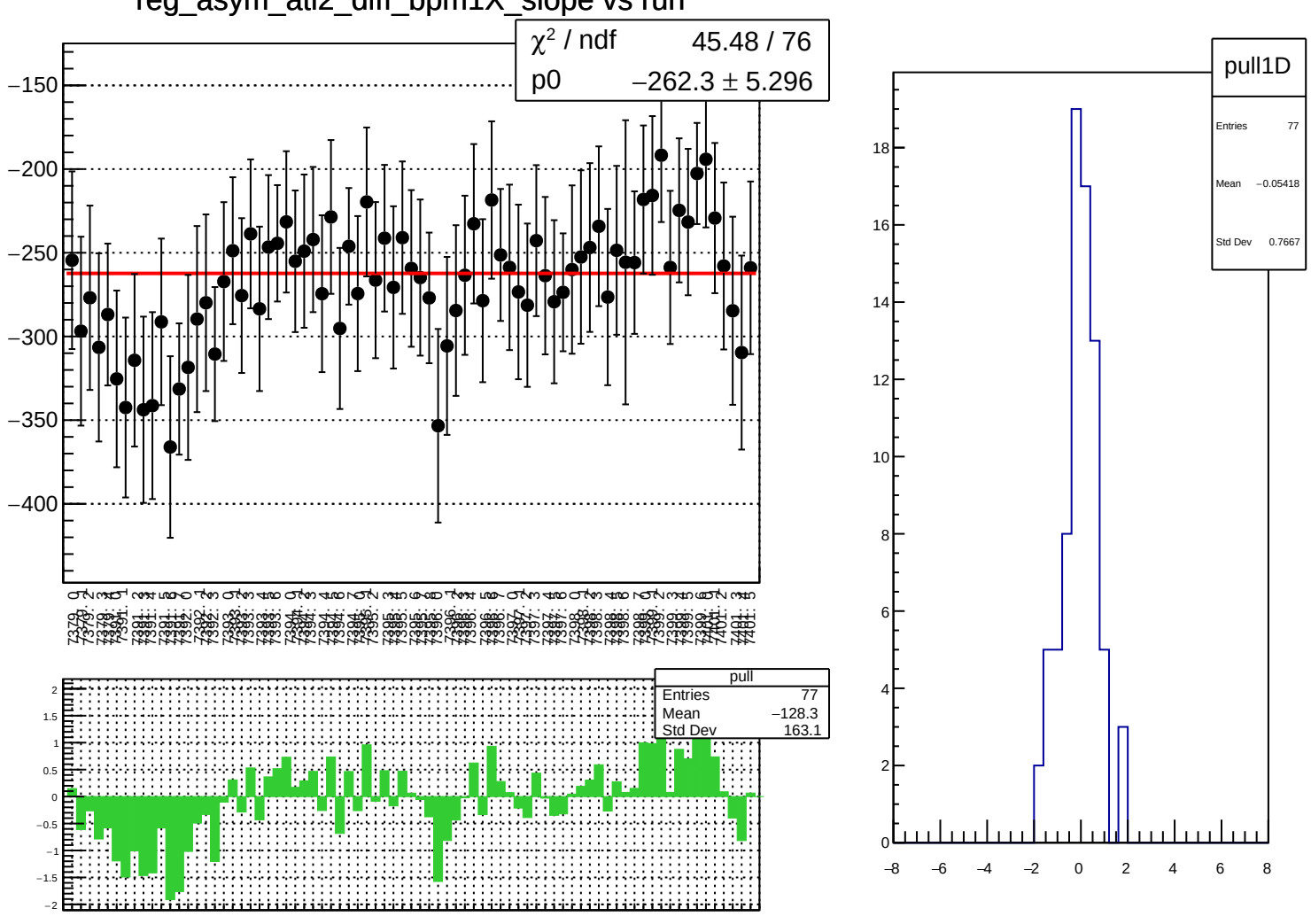

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 92.68 / 76
p0 −2.607 ± 1.756
pull
Entries 77
Mean −171.5
Std Dev 200.8

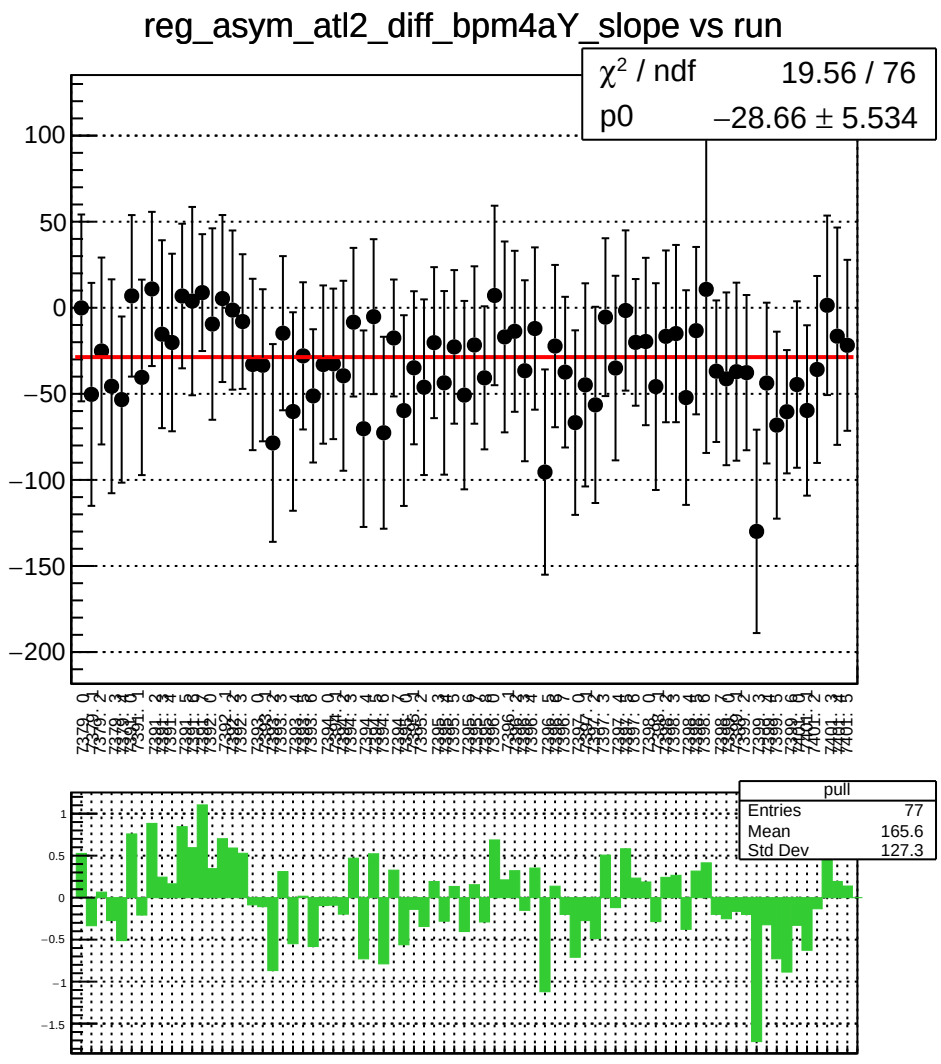

pull1D
Entries 77
Mean 0.04031
Std Dev 1.096

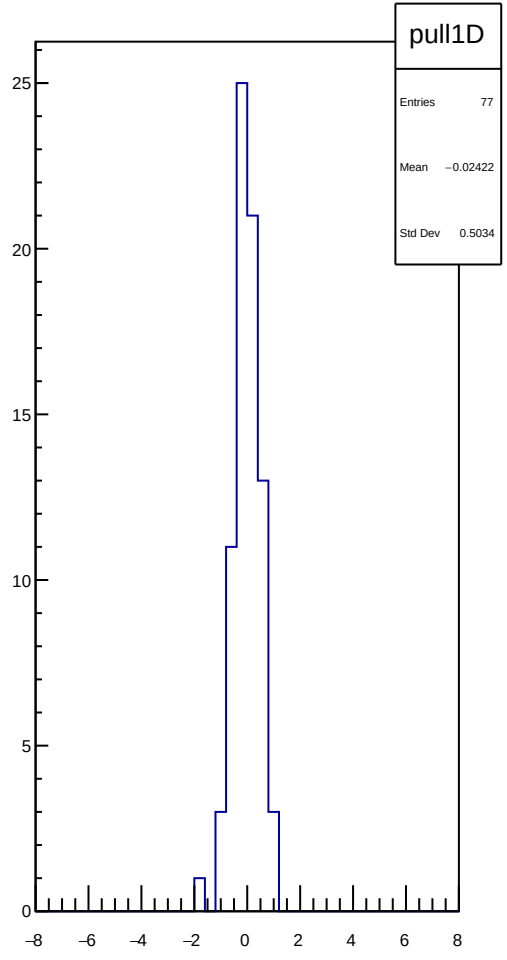

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 91.57 / 76
p0 −28.47 ± 1.896
pull
Entries 77
Mean −127.9
Std Dev 153.6

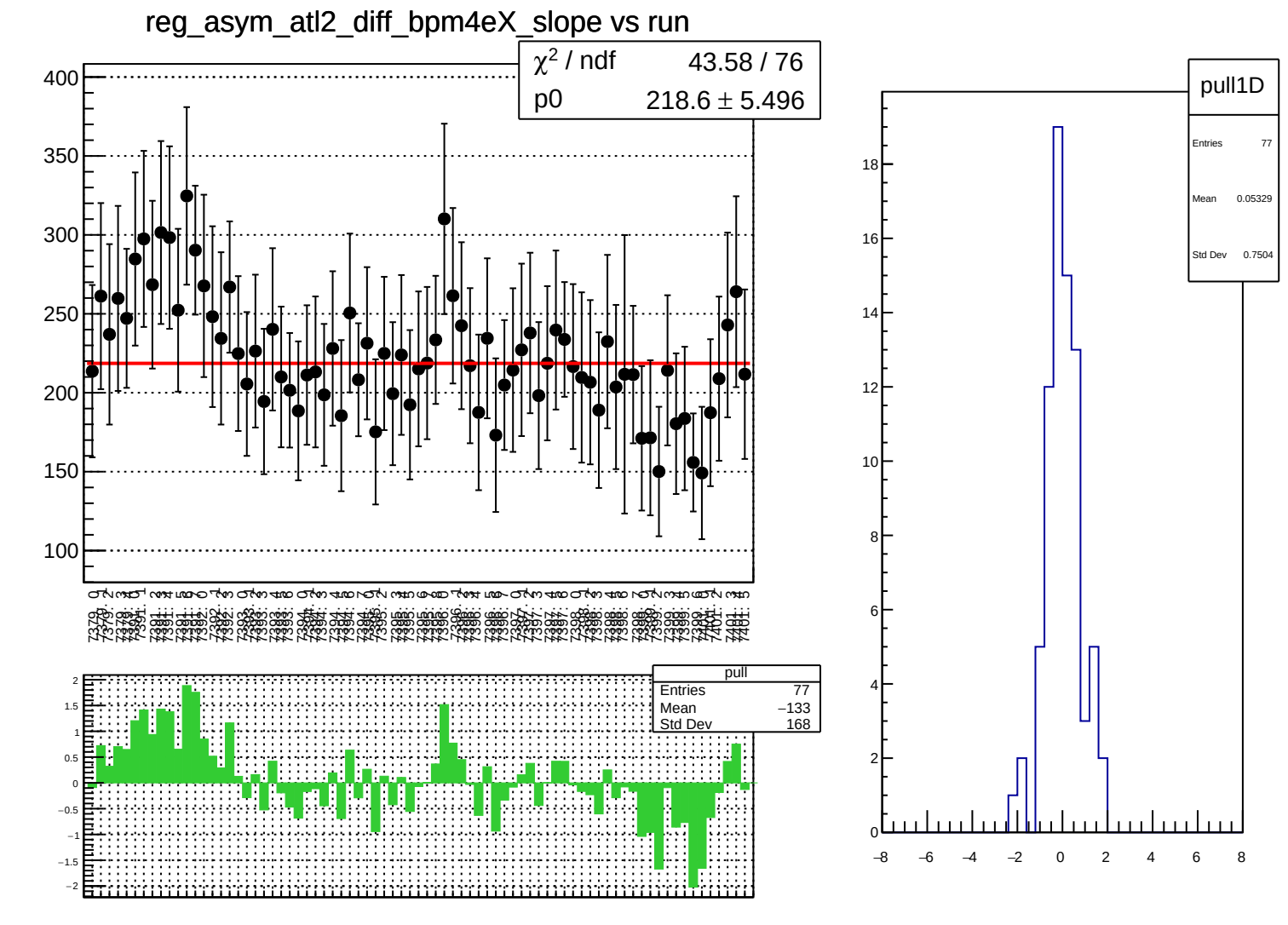

pull1D
Entries 77
Mean 0.02964
Std Dev 1.09

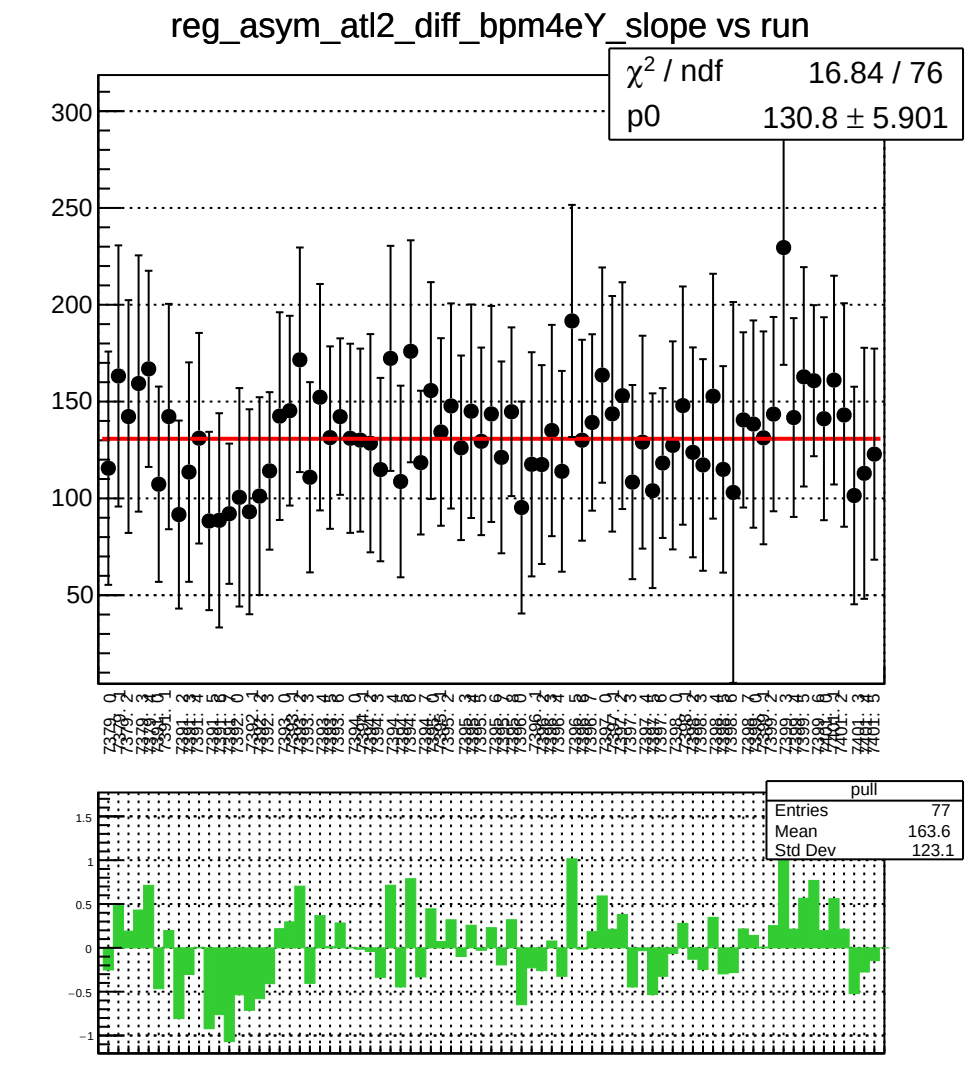

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 5643 / 76
p0 6.038 ± 0.08585
pull
Entries 77
Mean 1015
Std Dev 987.6
pull1D
Entries 77
Mean 2.295
Std Dev 1.311

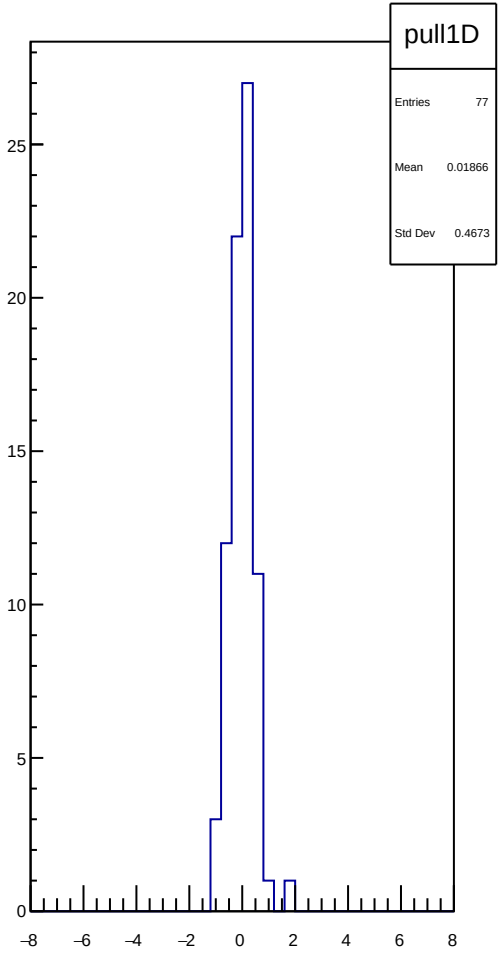

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 45.48 / 76
p0 −262.3 ± 5.296
pull
Entries 77
Mean −128.3
Std Dev 163.1
pull1D
Entries 77
Mean −0.05418
Std Dev 0.7667

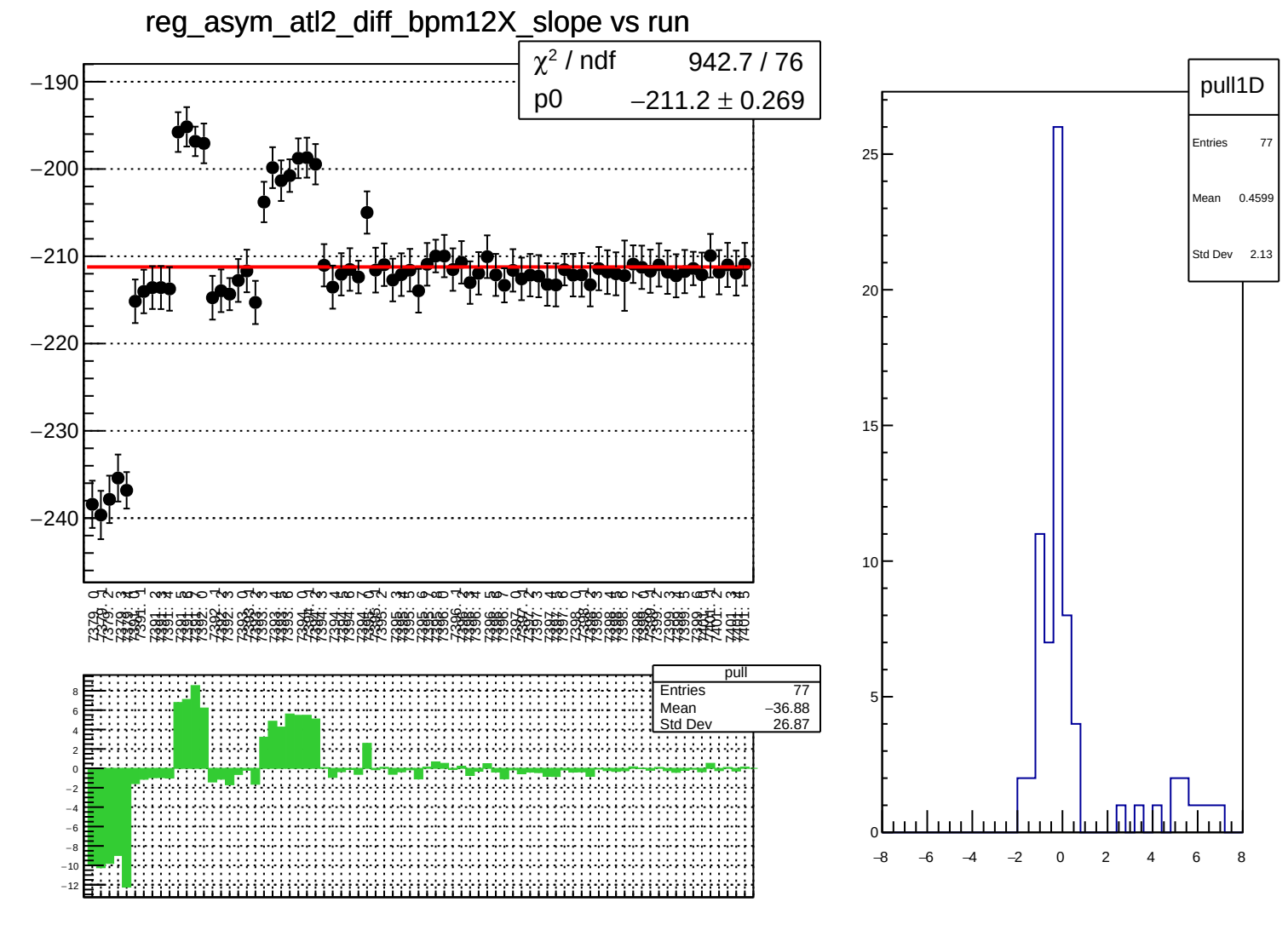

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 19.56 / 76
p0 −28.66 ± 5.534
pull
Entries 77
Mean 165.6
Std Dev 127.3

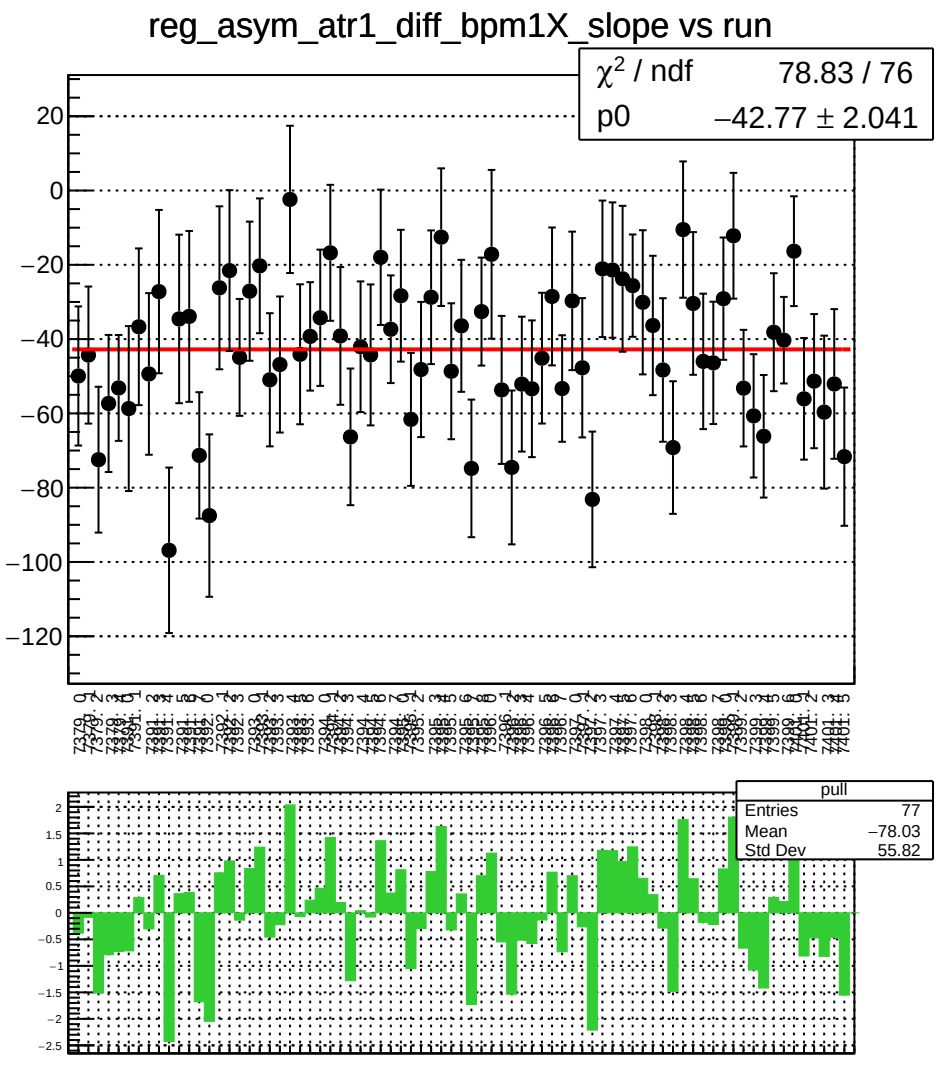

pull1D
Entries 77
Mean −0.02422
Std Dev 0.5034

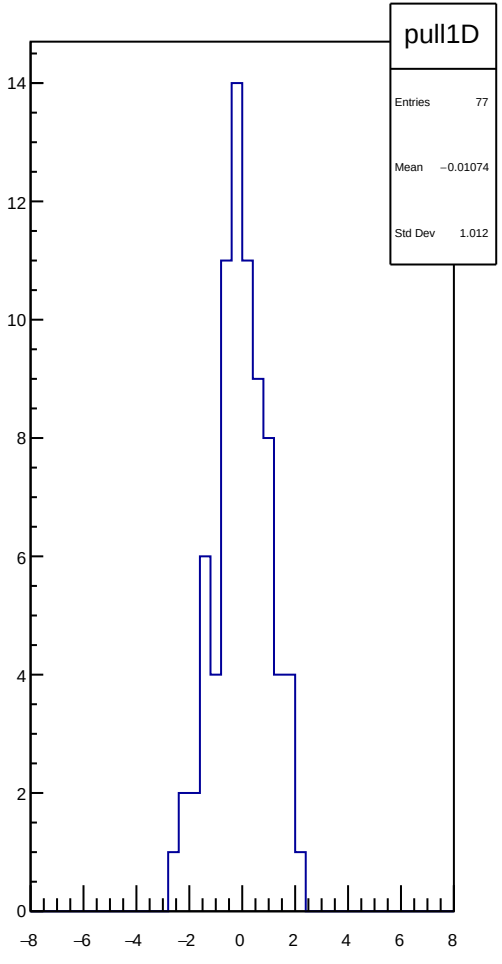

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 43.58 / 76
p0 218.6 ± 5.496
pull
Entries 77
Mean −133
Std Dev 168
pull1D
Entries 77
Mean 0.05329
Std Dev 0.7504

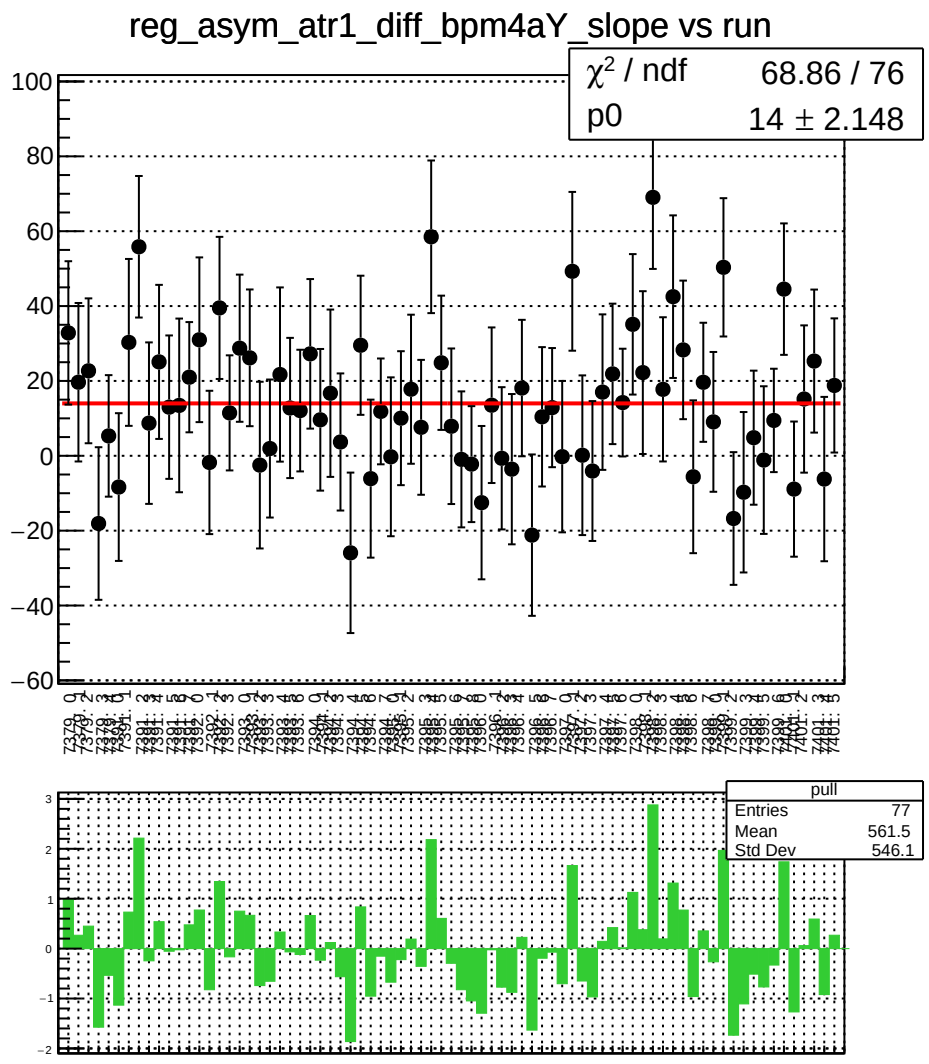

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 16.84 / 76
p0 130.8 ± 5.901
pull
Entries 77
Mean 163.6
Std Dev 123.1

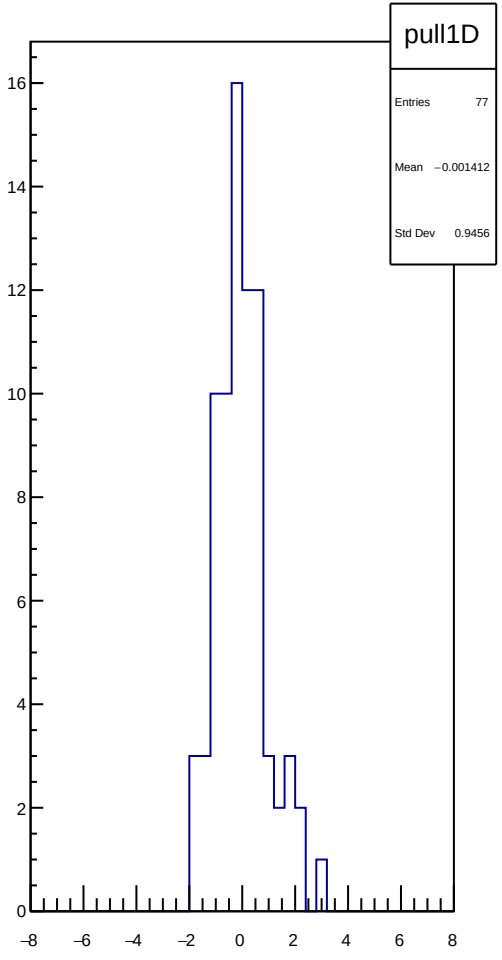

pull1D
Entries 77
Mean 0.01866
Std Dev 0.4673

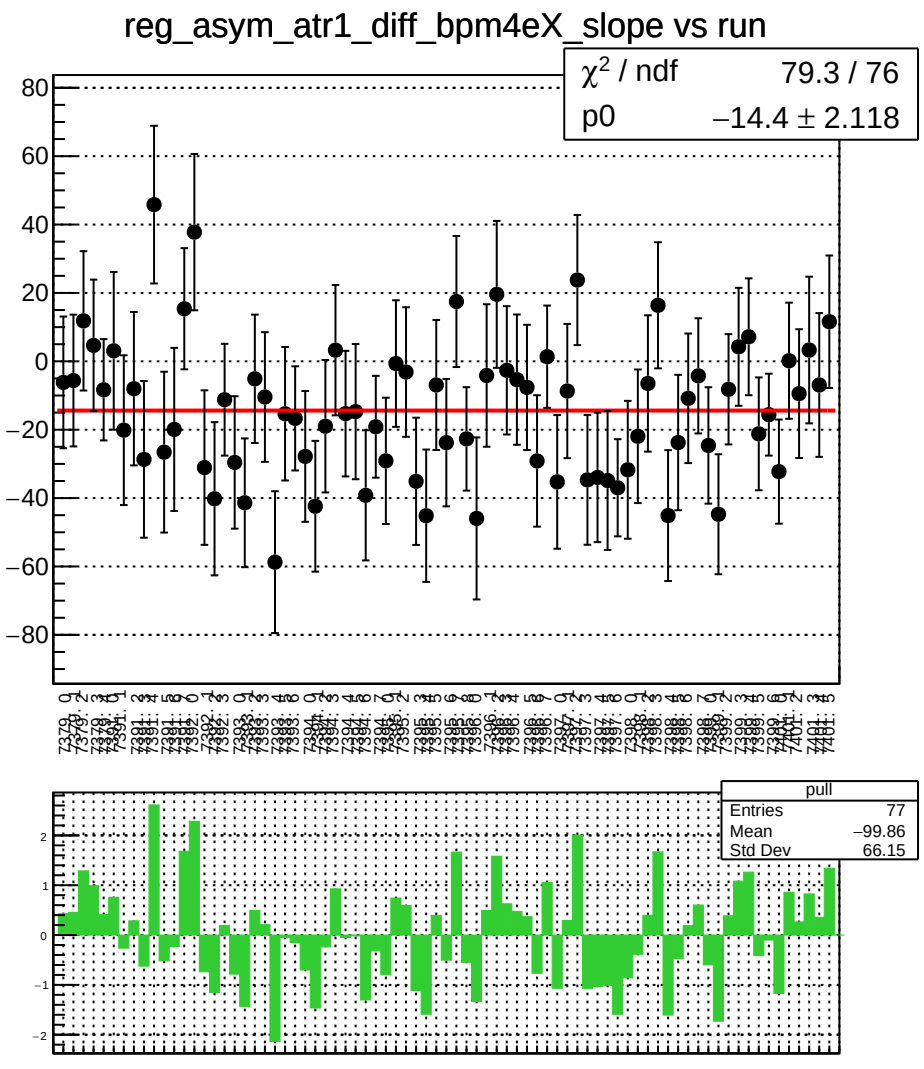

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 942.7 / 76
p0 −211.2 ± 0.269
pull
Entries 77
Mean −36.88
Std Dev 26.87
pull1D
Entries 77
Mean 0.4599
Std Dev 2.13

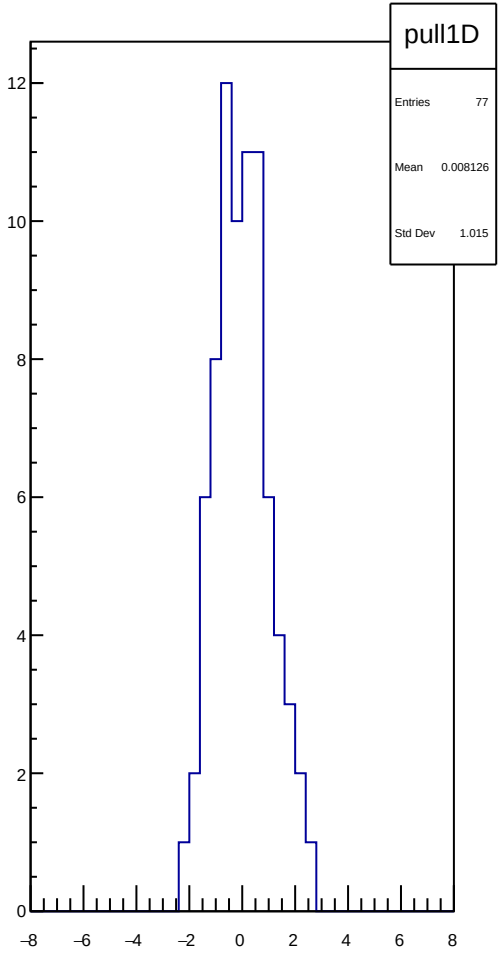

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 78.83 / 76
p0 −42.77 ± 2.041
pull
Entries 77
Mean −78.03
Std Dev 55.82

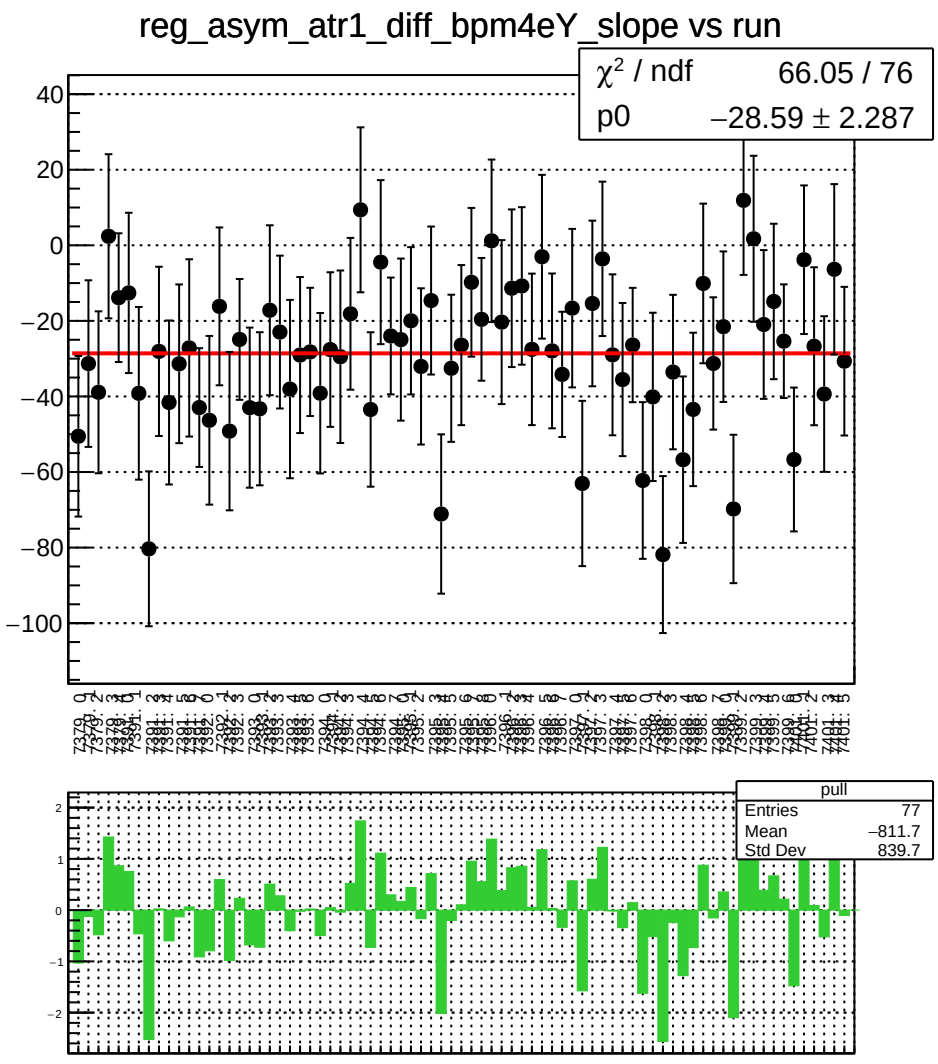

pull1D
Entries 77
Mean −0.01074
Std Dev 1.012

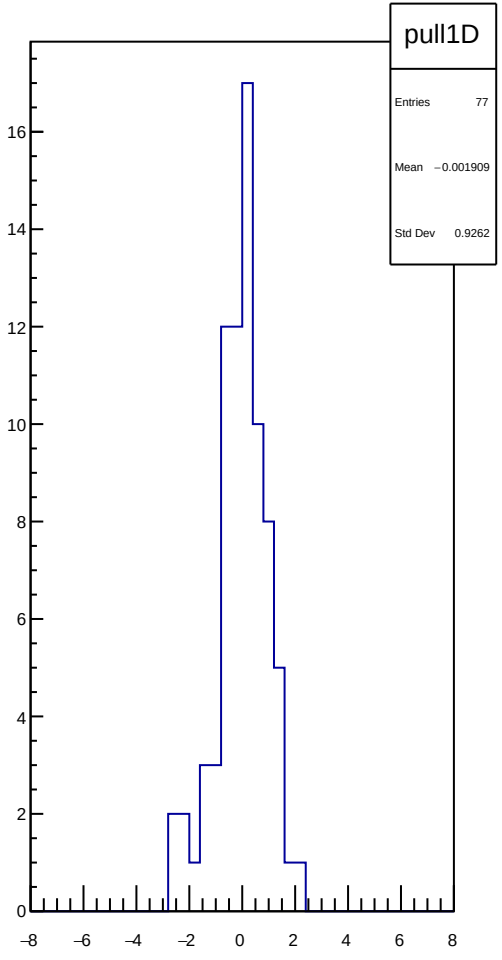

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 68.86 / 76
p0 14 ± 2.148
pull
Entries 77
Mean 561.5
Std Dev 546.1

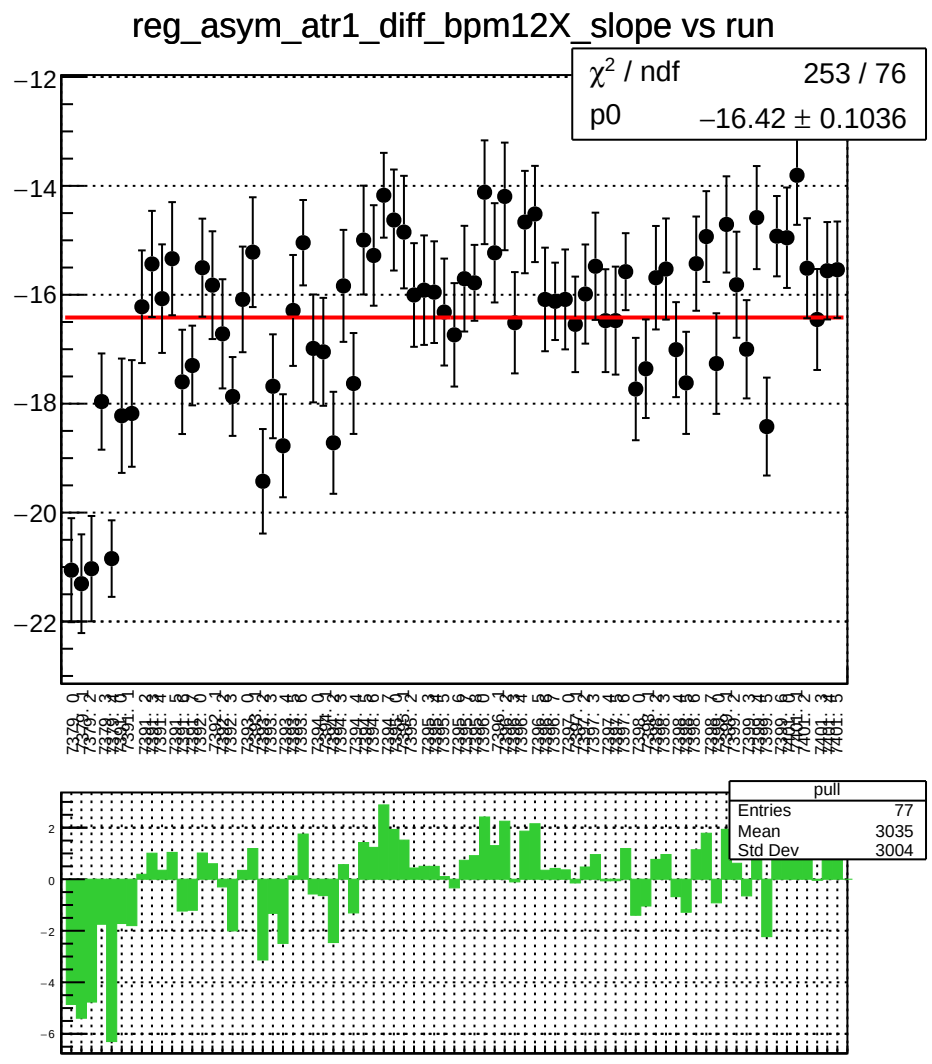

pull1D
Entries 77
Mean −0.001412
Std Dev 0.9456

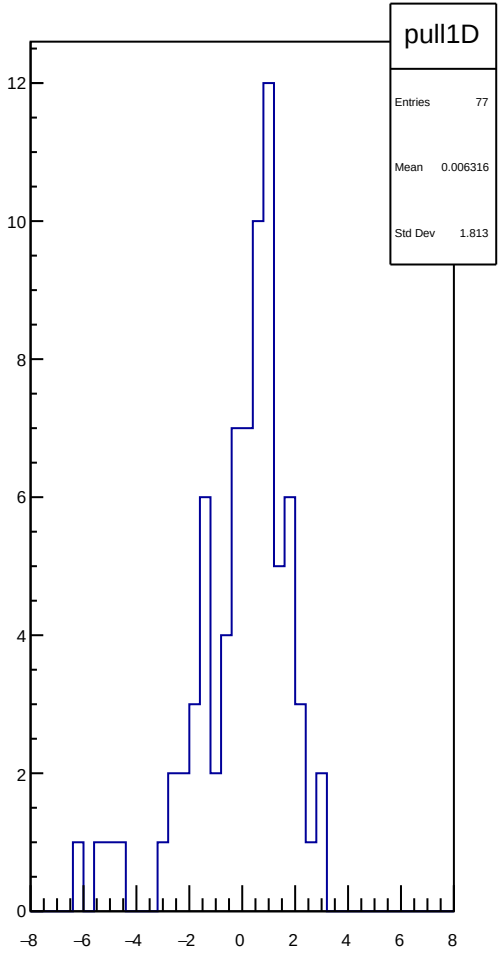

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 79.3 / 76
p0 −14.4 ± 2.118
pull
Entries 77
Mean −99.86
Std Dev 66.15

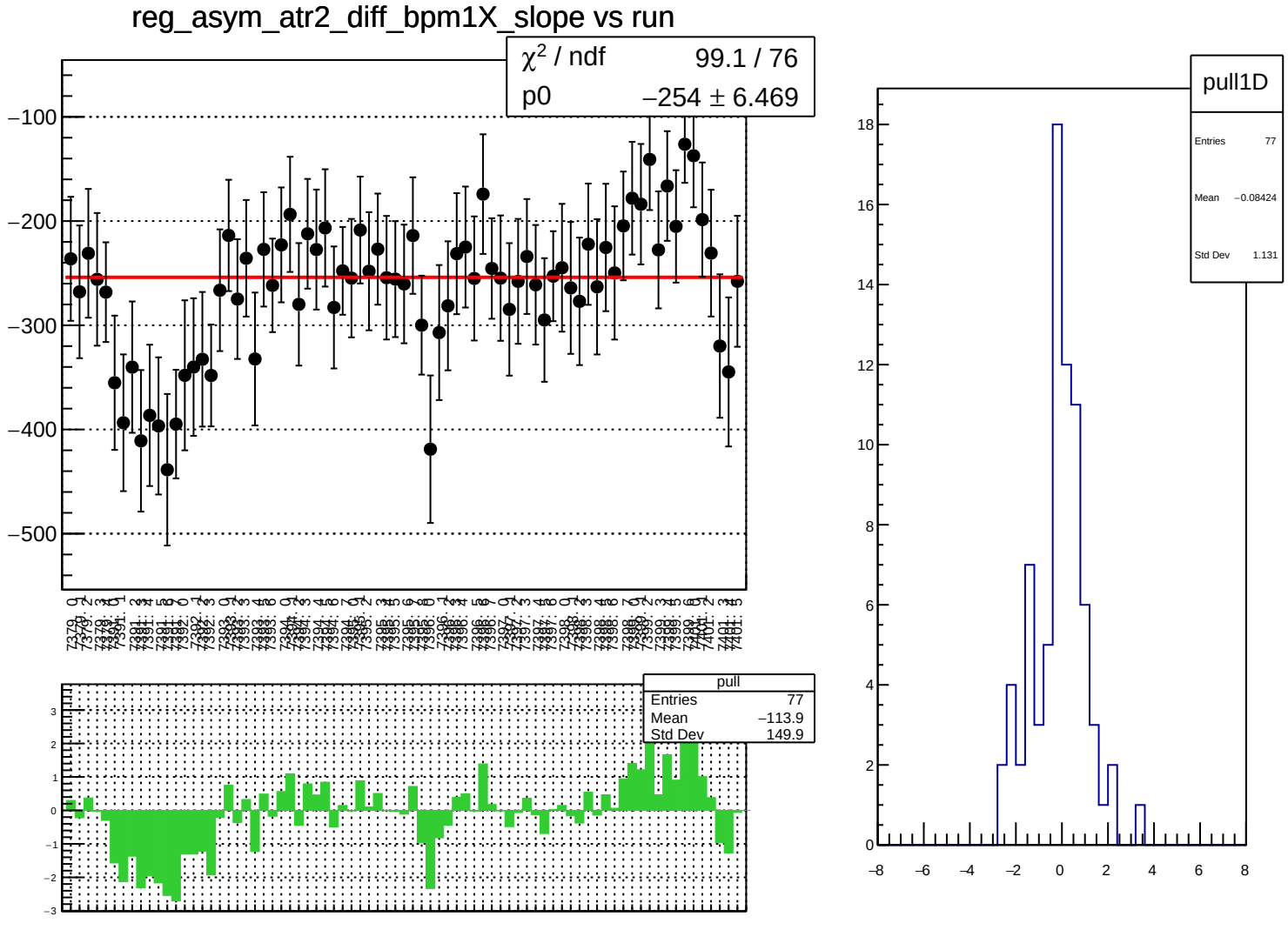

pull1D
Entries 77
Mean 0.008126
Std Dev 1.015

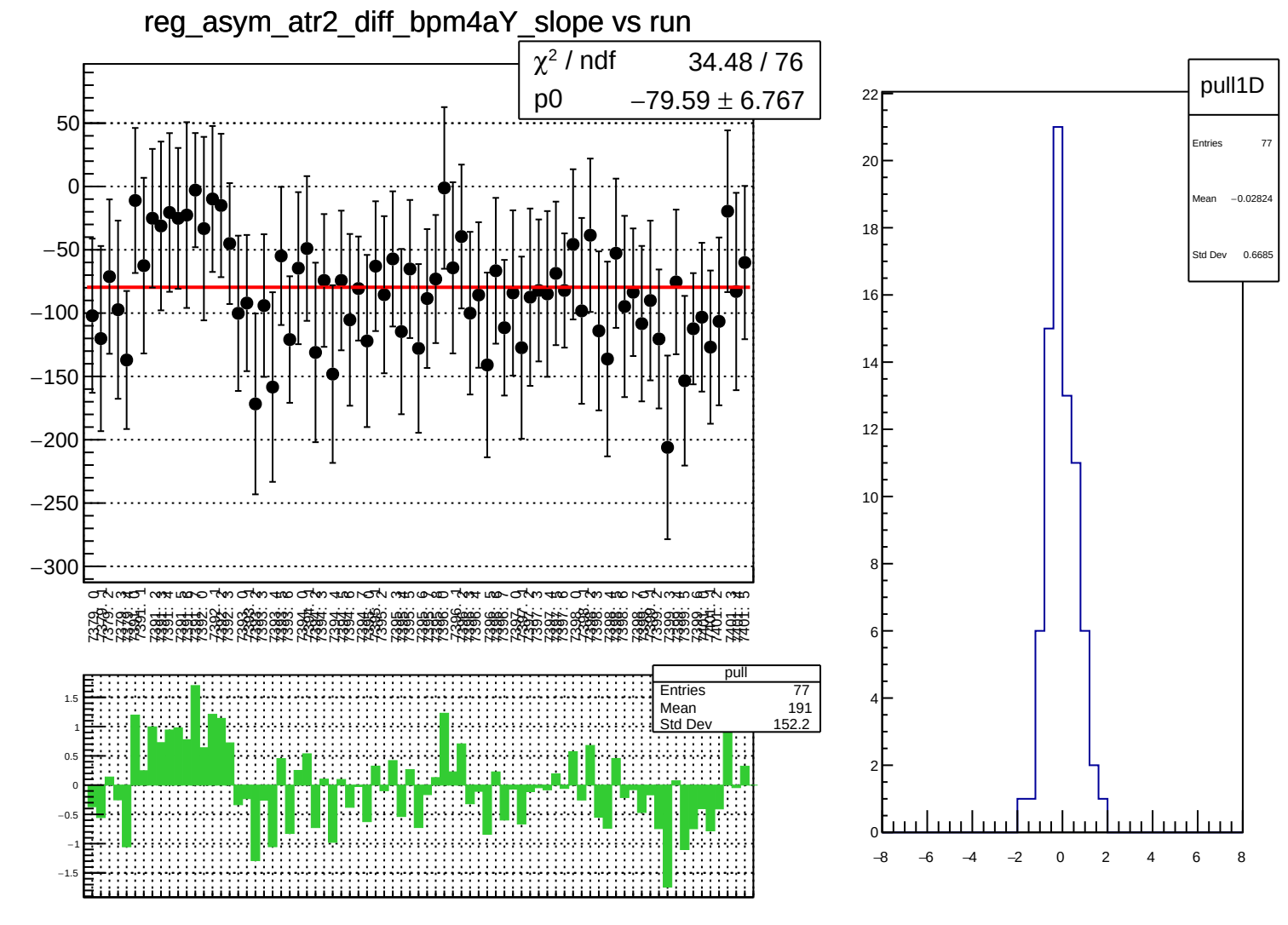

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 66.05 / 76
p0 −28.59 ± 2.287
pull
Entries 77
Mean −811.7
Std Dev 839.7

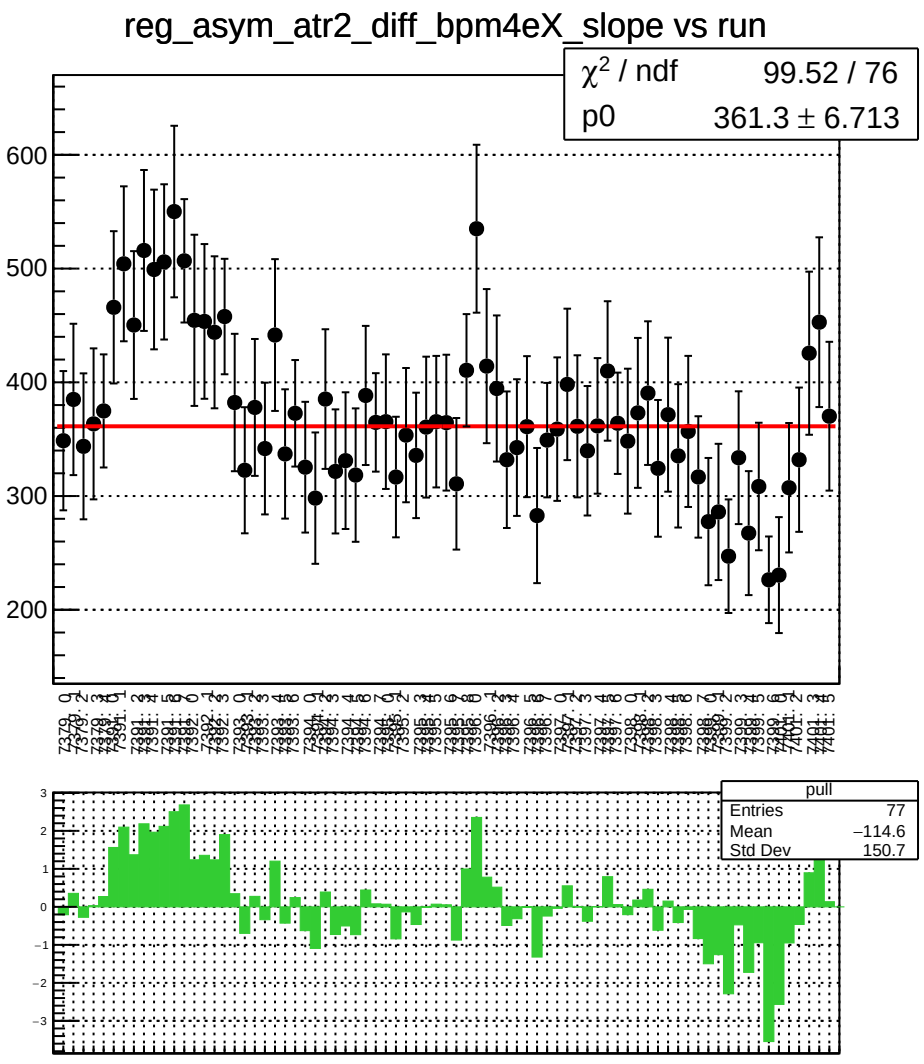

pull1D
Entries 77
Mean −0.001909
Std Dev 0.9262

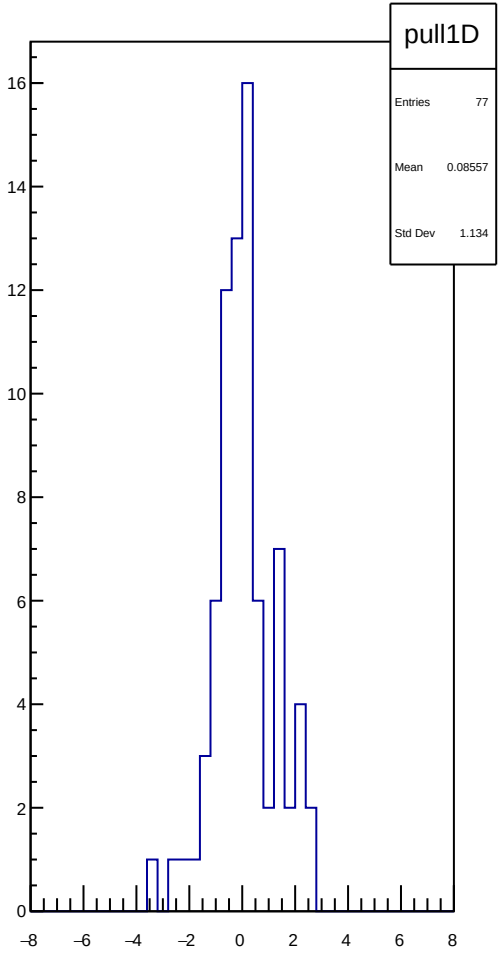

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 253 / 76
p0 −16.42 ± 0.1036
pull
Entries 77
Mean 3035
Std Dev 3004

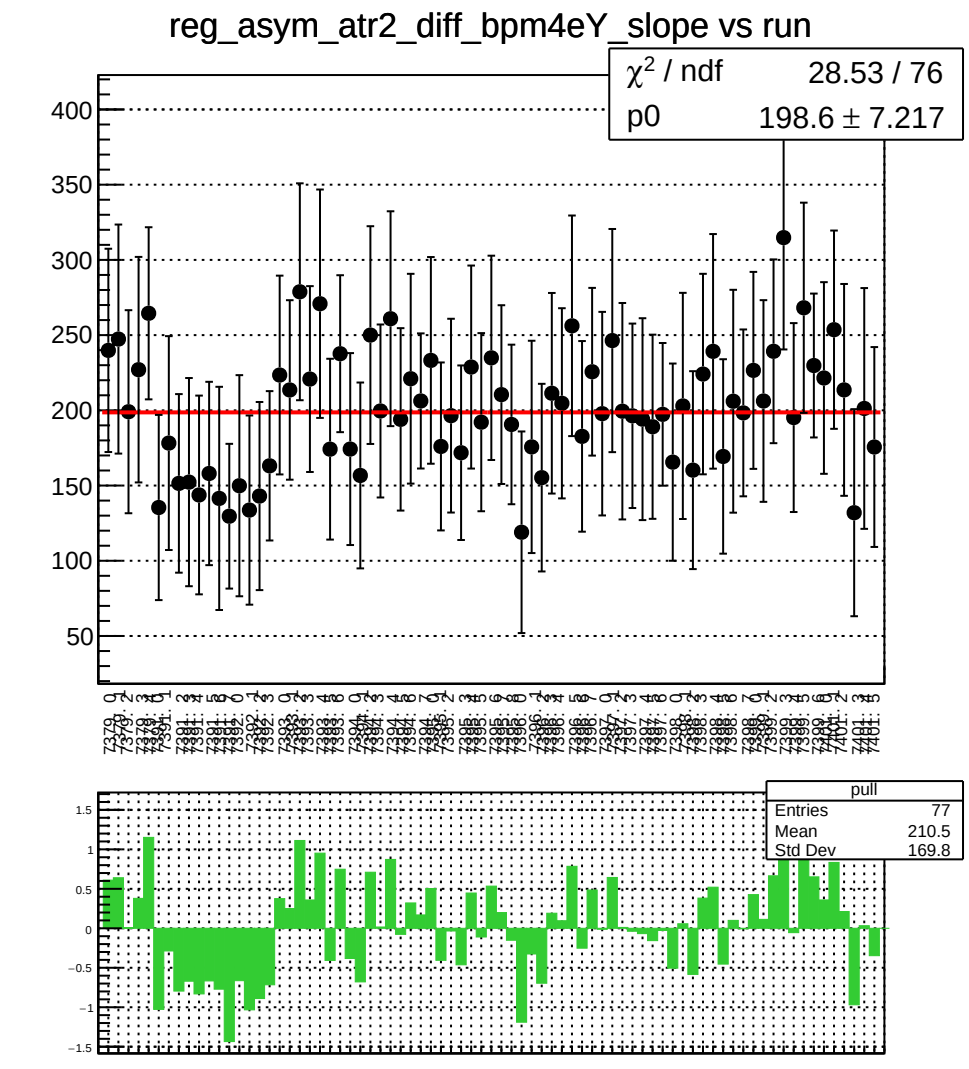

pull1D
Entries 77
Mean 0.006316
Std Dev 1.813

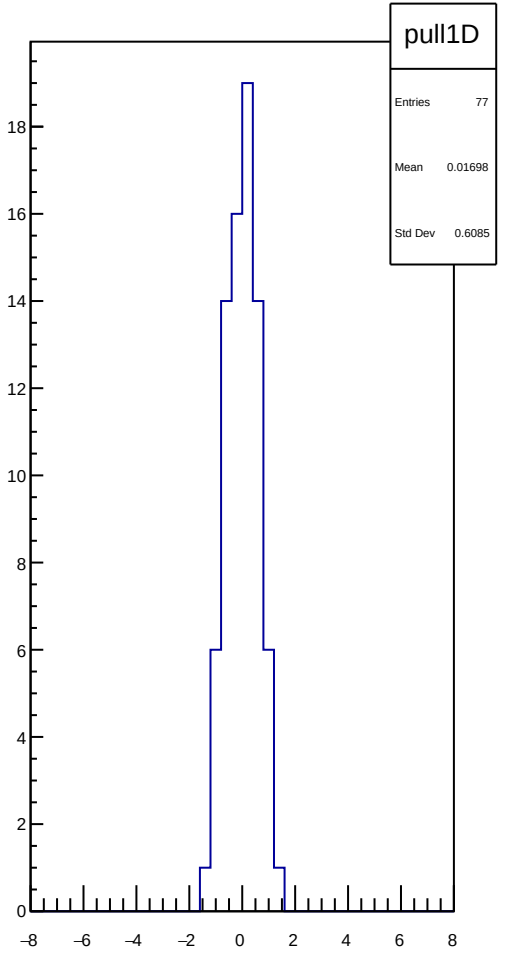

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 99.1 / 76
p0 −254 ± 6.469
pull
Entries 77
Mean −113.9
Std Dev 149.9
pull1D
Entries 77
Mean −0.08424
Std Dev 1.131

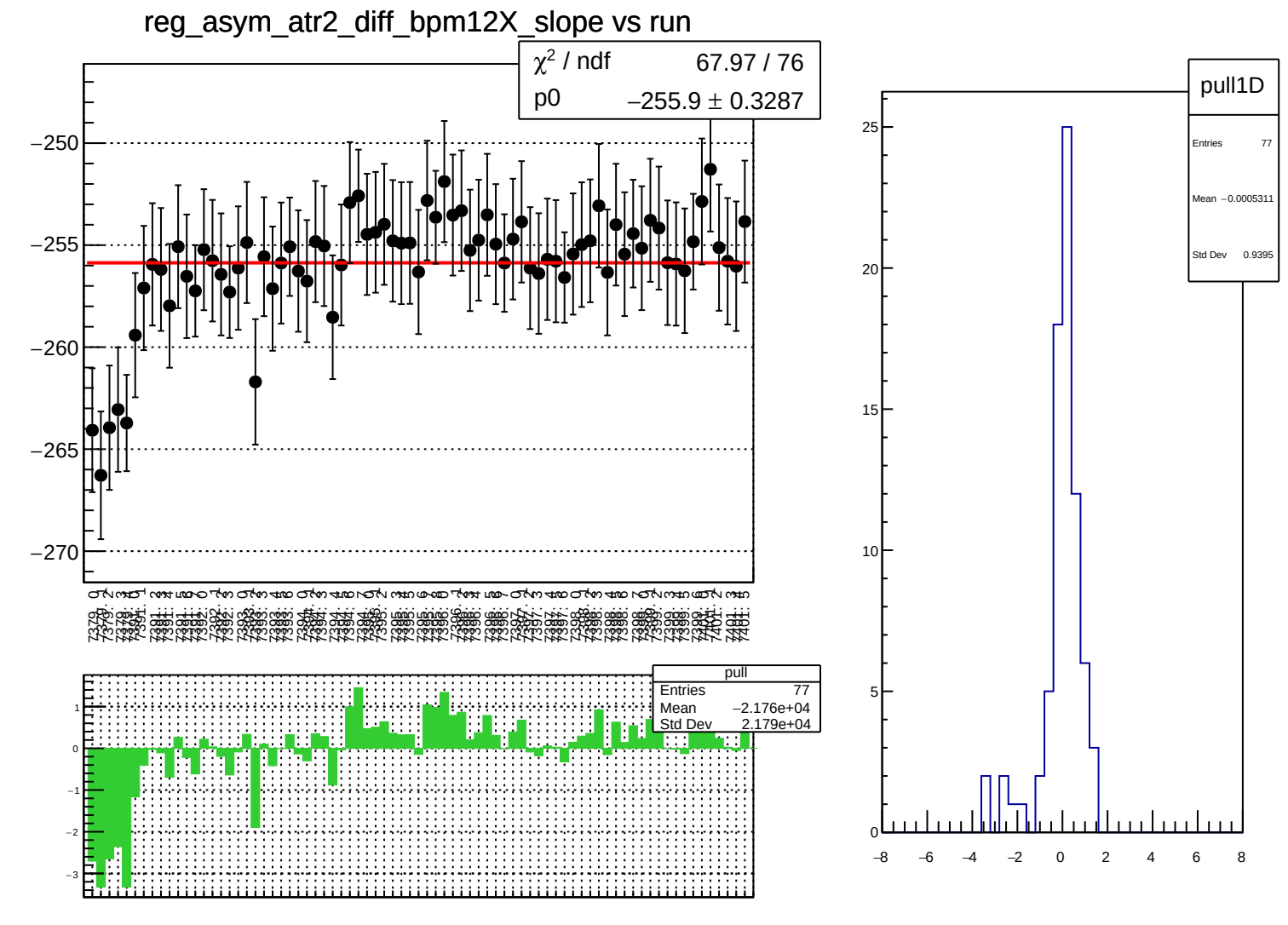

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 34.48 / 76
p0 −79.59 ± 6.767
pull
Entries 77
Mean 191
Std Dev 152.2
pull1D
Entries 77
Mean −0.02824
Std Dev 0.6685

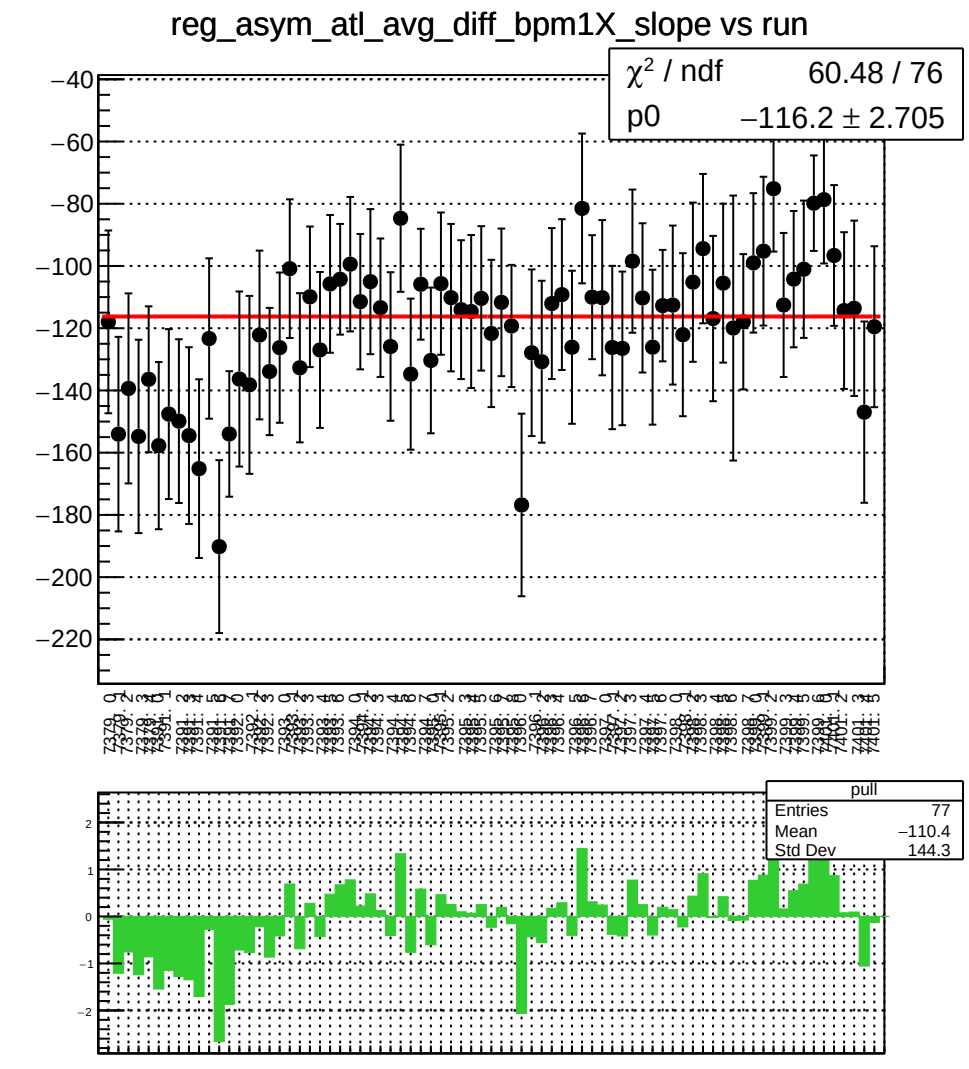

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 99.52 / 76
p0 361.3 ± 6.713
pull
Entries 77
Mean −114.6
Std Dev 150.7

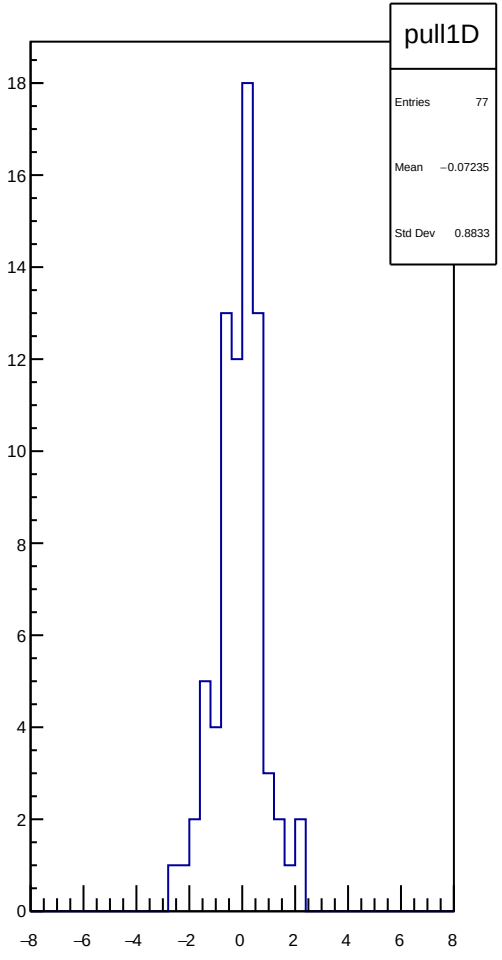

pull1D
Entries 77
Mean 0.08557
Std Dev 1.134

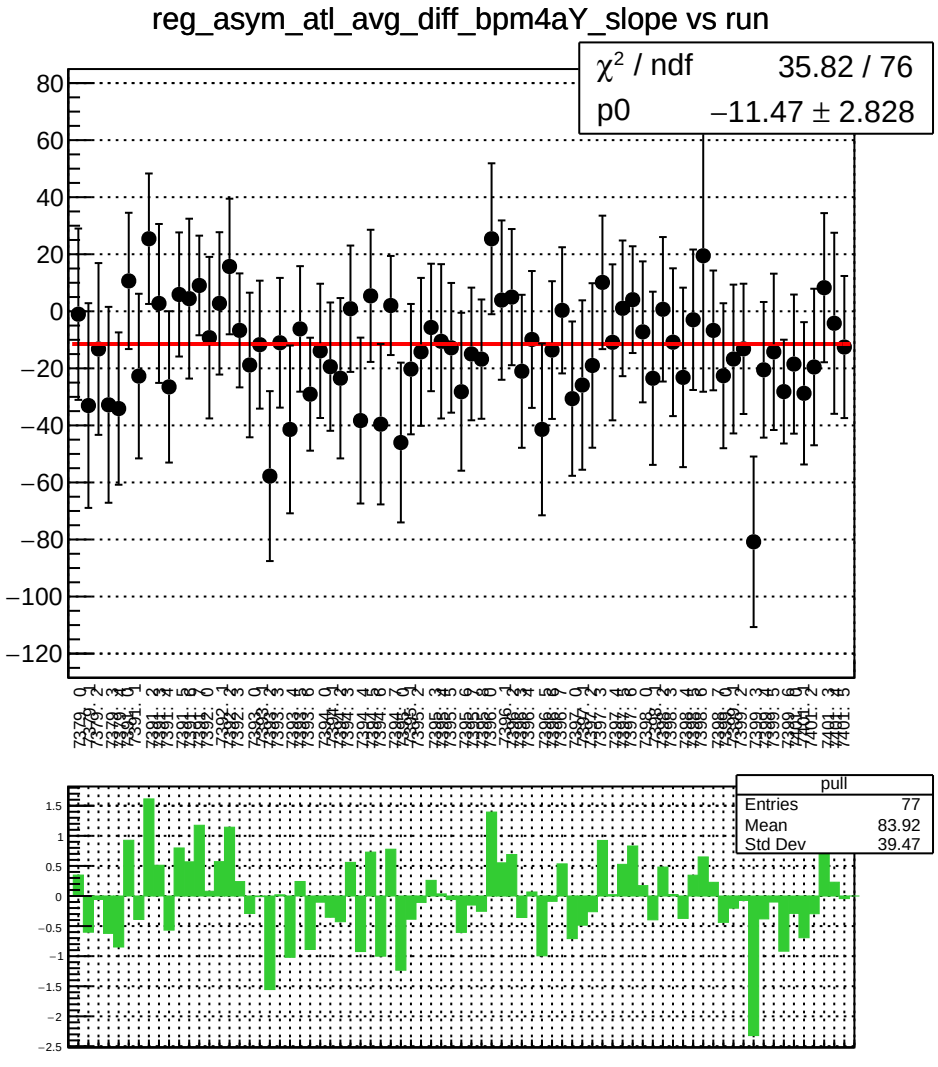

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 28.53 / 76
p0 198.6 ± 7.217
pull
Entries 77
Mean 210.5
Std Dev 169.8

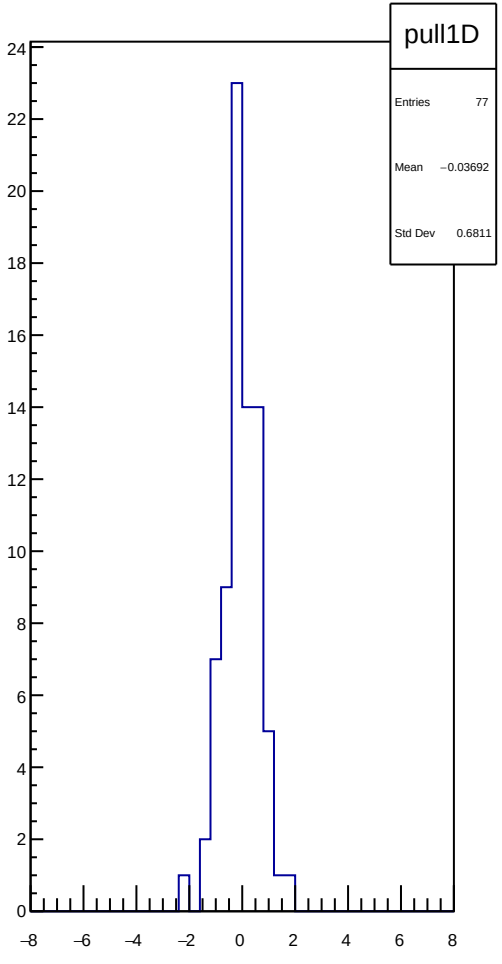

pull1D
Entries 77
Mean 0.01698
Std Dev 0.6085

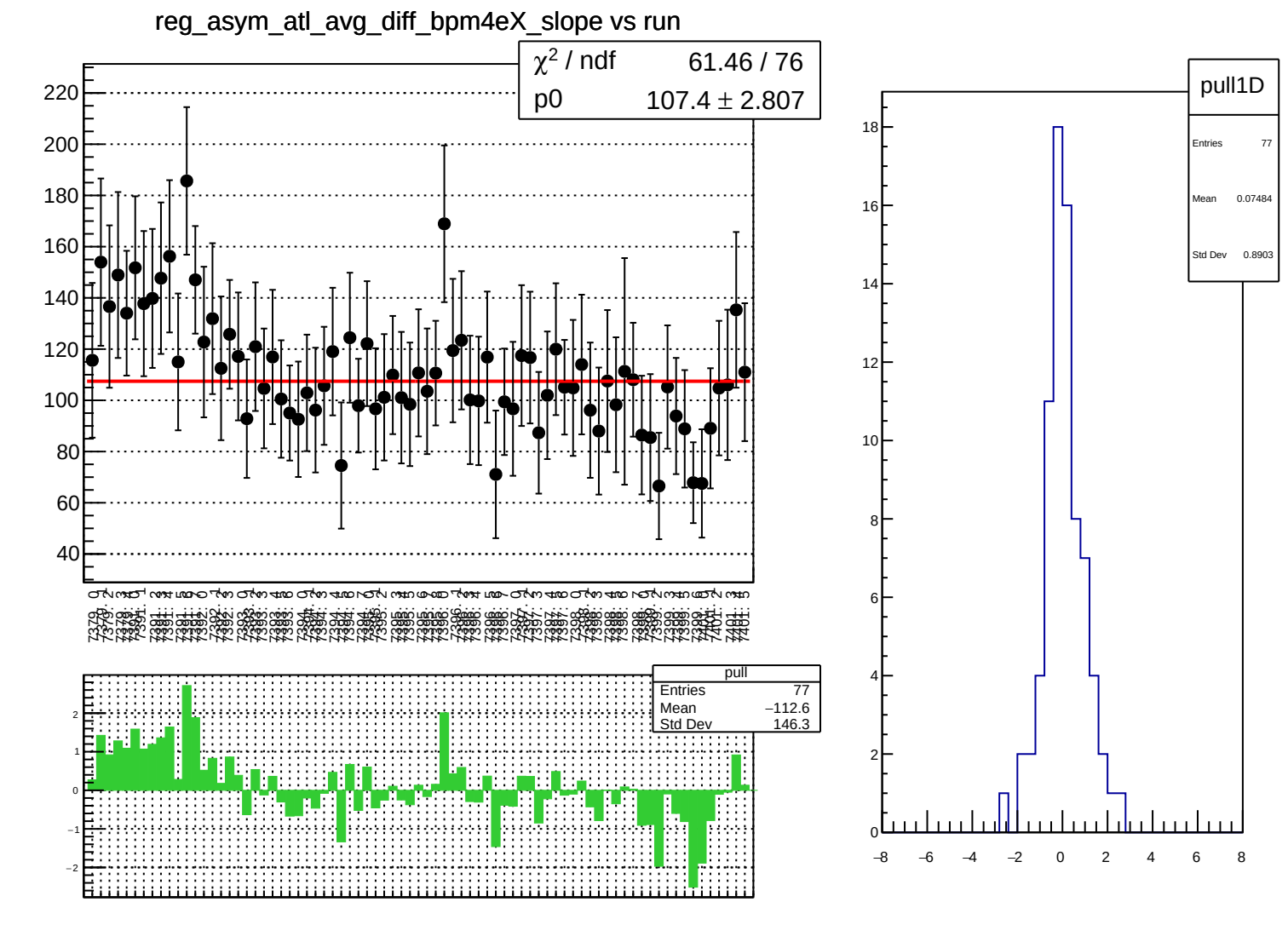

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 67.97 / 76
p0 −255.9 ± 0.3287
−250
−255
−260
−265
−270
pull
Entries 77
Mean −2.176e+04
Std Dev 2.179e+04
1
0
−1
−2
−3
pull1D
Entries 77
Mean −0.0005311
Std Dev 0.9395
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

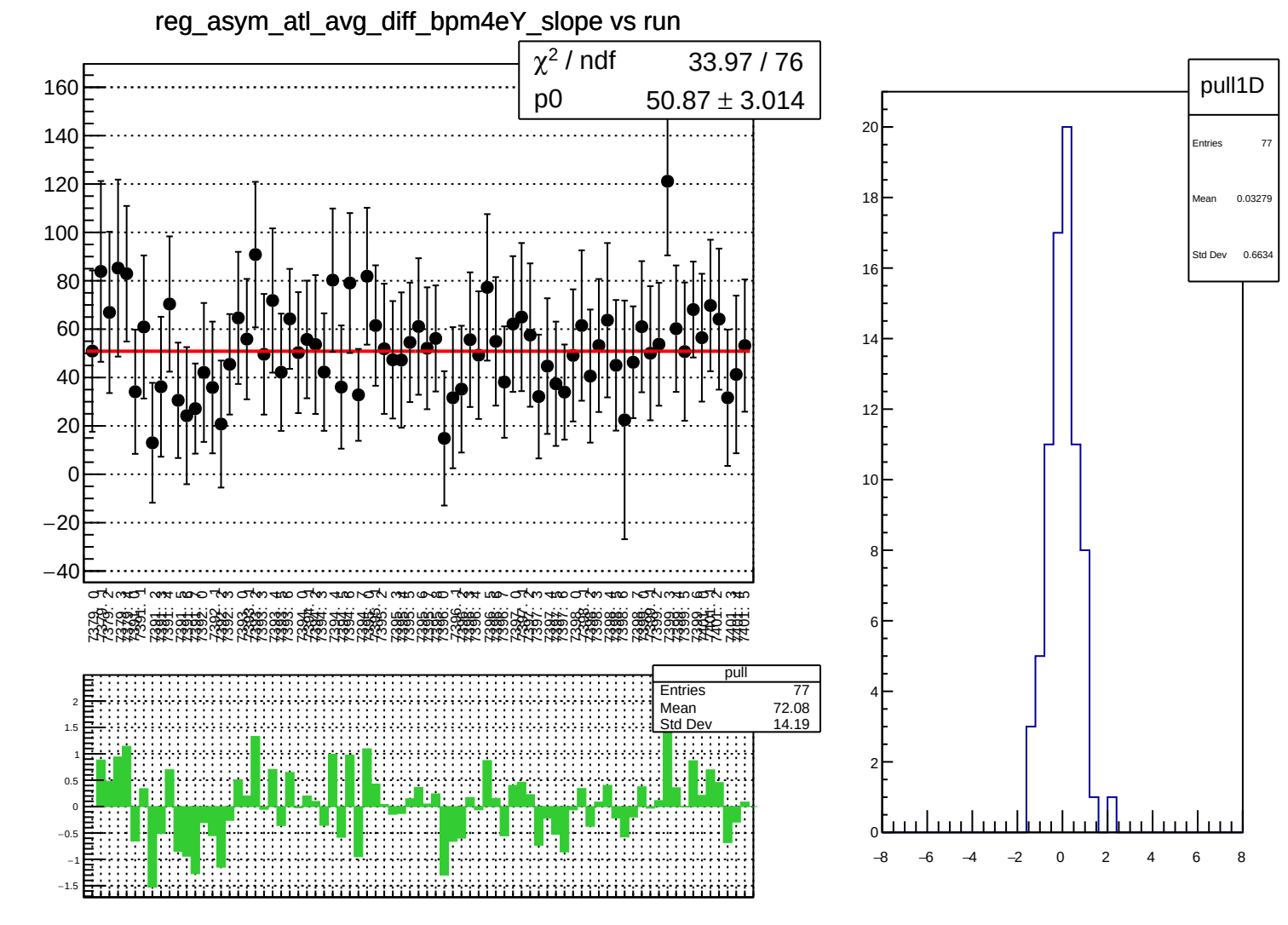

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 60.48 / 76
p0 −116.2 ± 2.705
pull
Entries 77
Mean −110.4
Std Dev 144.3

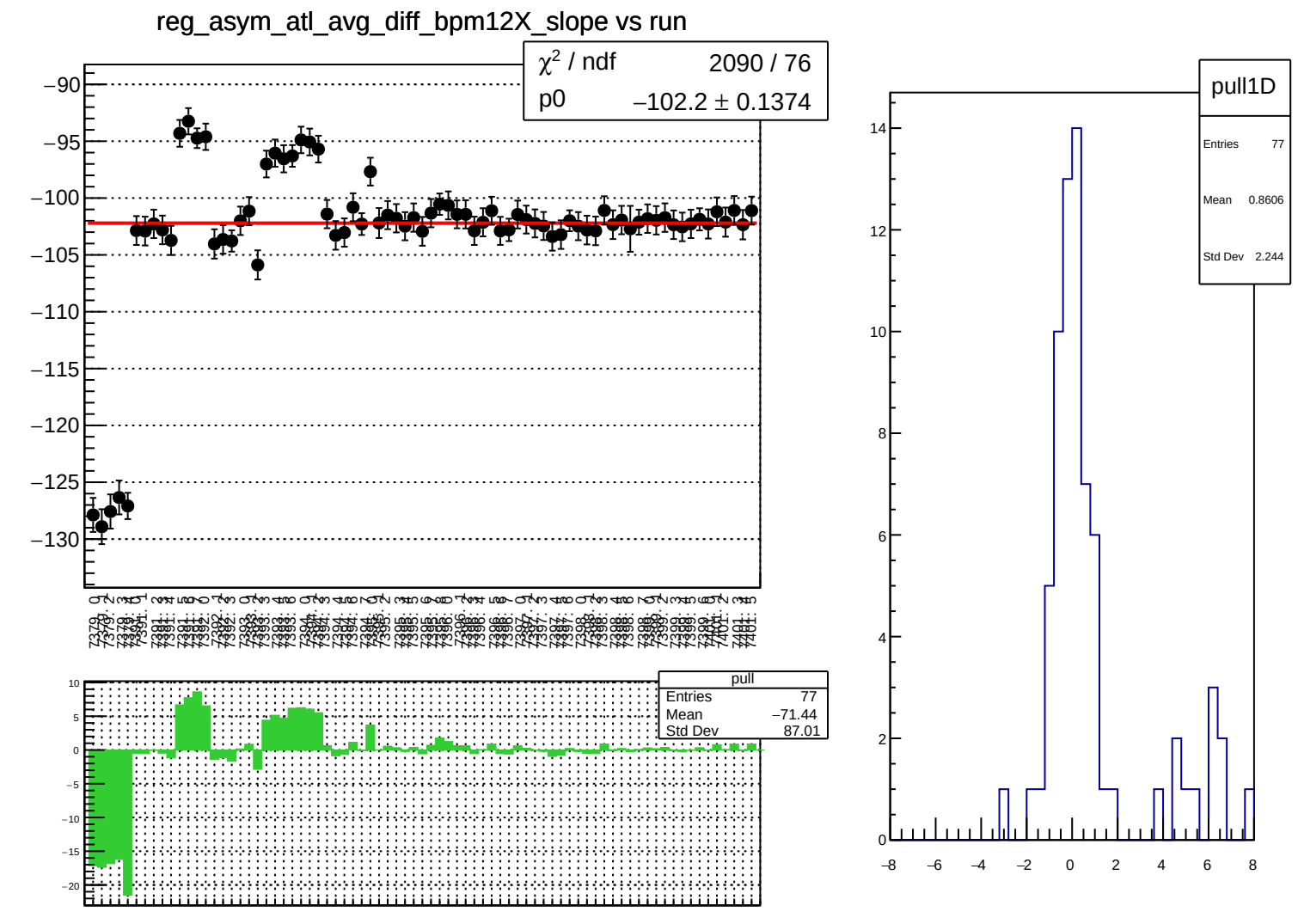

pull1D
Entries 77
Mean −0.07235
Std Dev 0.8833

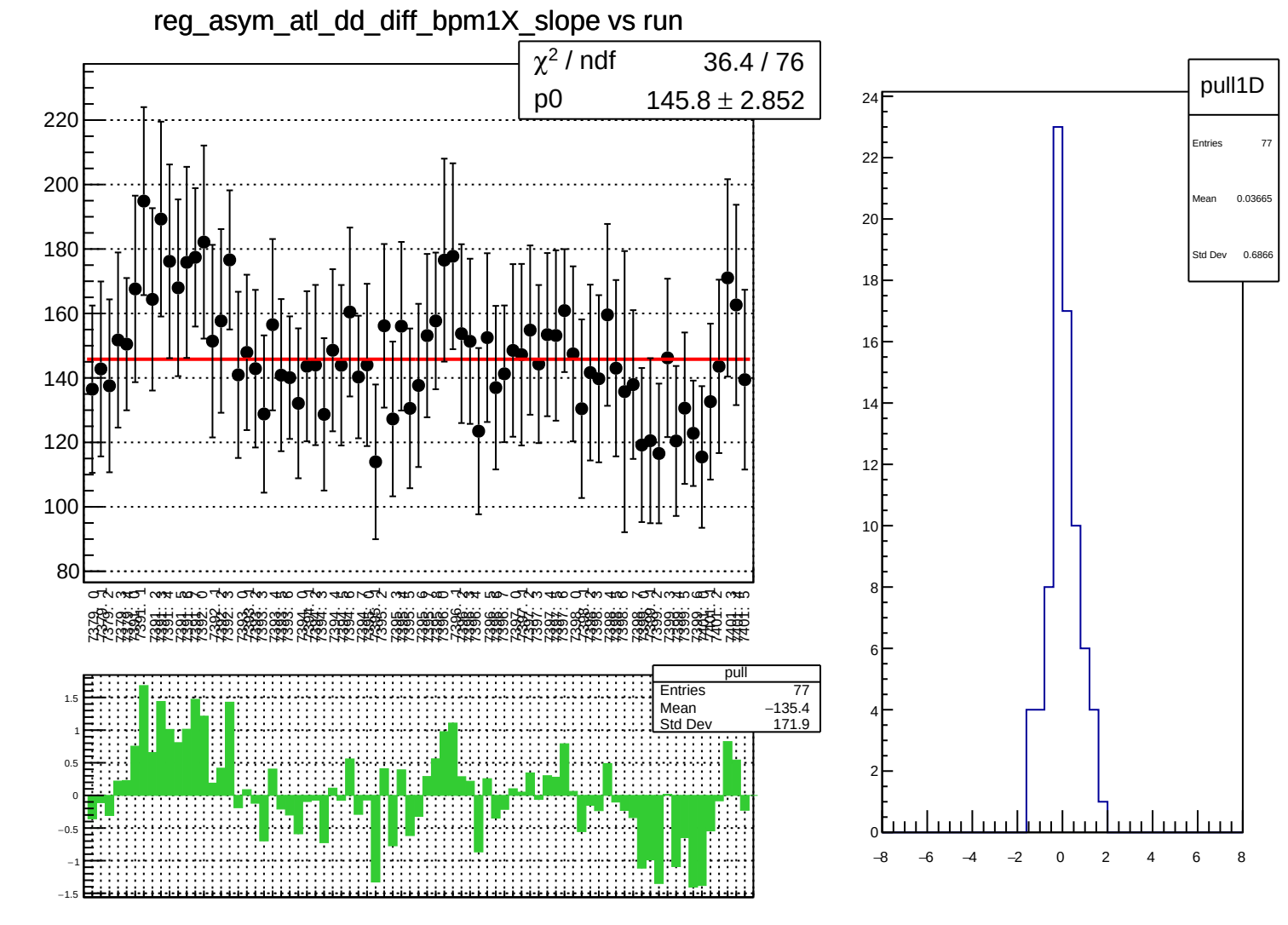

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.82 / 76
p0 −11.47 ± 2.828
pull
Entries 77
Mean 83.92
Std Dev 39.47

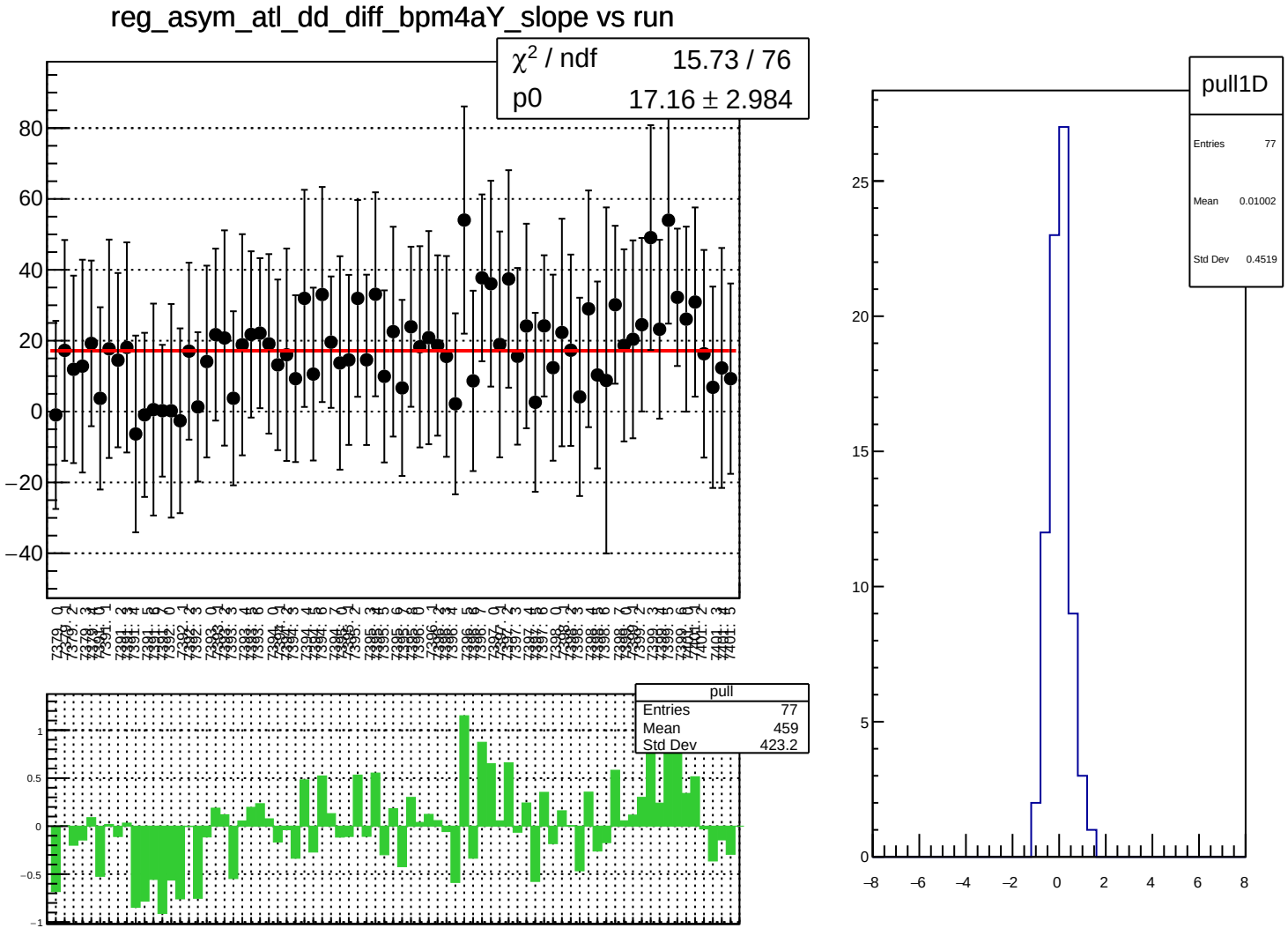

pull1D
Entries 77
Mean −0.03692
Std Dev 0.6811

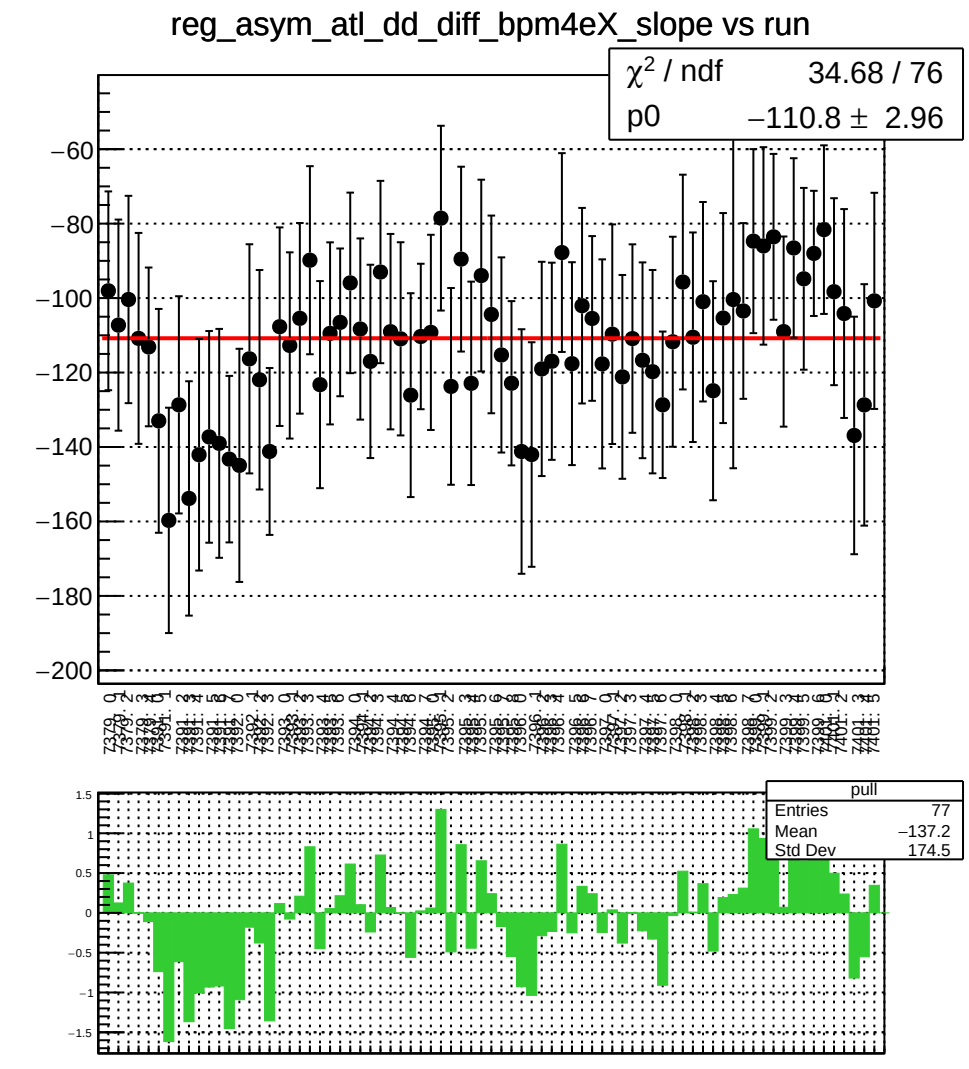

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.46 / 76
p0 107.4 ± 2.807
pull
Entries 77
Mean −112.6
Std Dev 146.3
pull1D
Entries 77
Mean 0.07484
Std Dev 0.8903

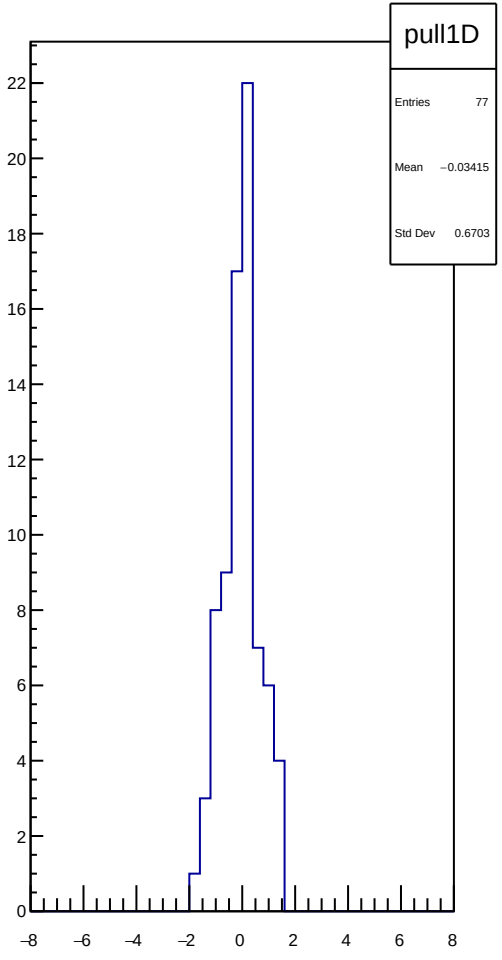

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.97 / 76
p0 50.87 ± 3.014
pull
Entries 77
Mean 72.08
Std Dev 14.19
pull1D
Entries 77
Mean 0.03279
Std Dev 0.6634

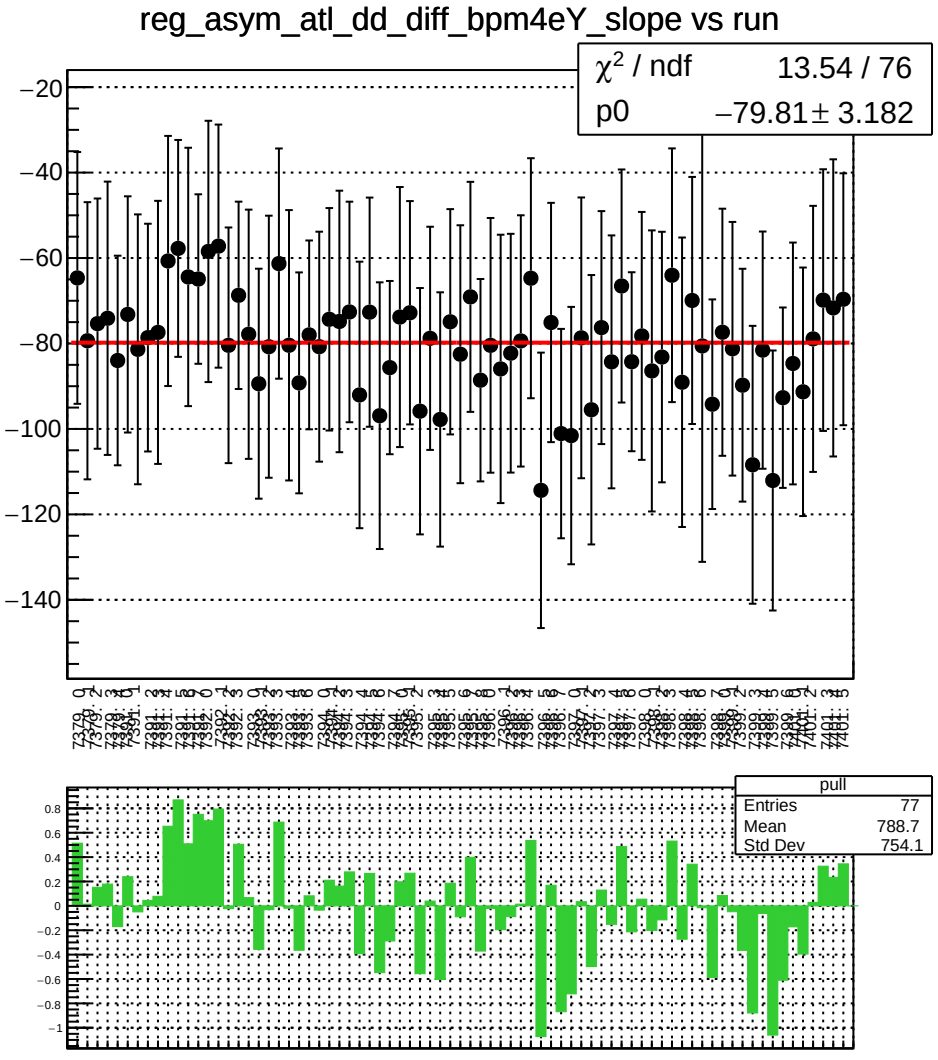

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 2090 / 76
p0 −102.2 ± 0.1374
pull
Entries 77
Mean −71.44
Std Dev 87.01
pull1D
Entries 77
Mean 0.8606
Std Dev 2.244

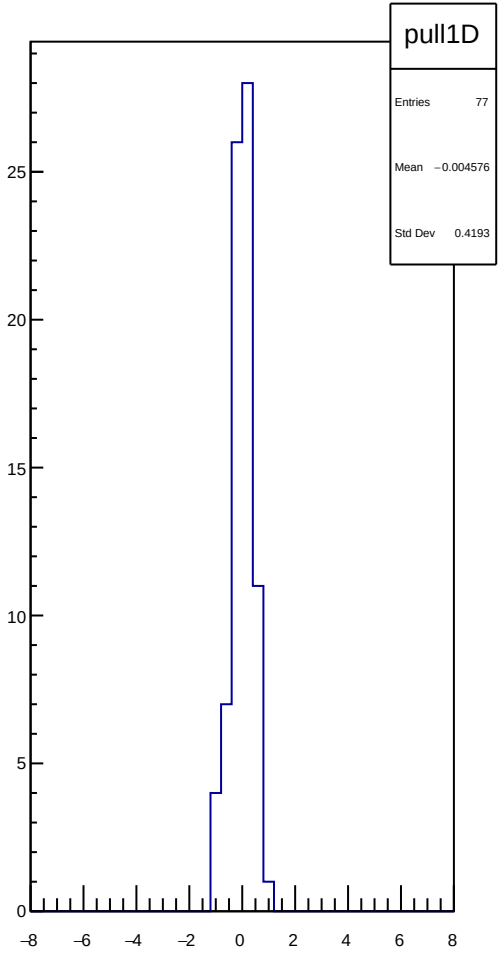

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 36.4 / 76
p0 145.8 ± 2.852
pull
Entries 77
Mean −135.4
Std Dev 171.9
pull1D
Entries 77
Mean 0.03665
Std Dev 0.6866

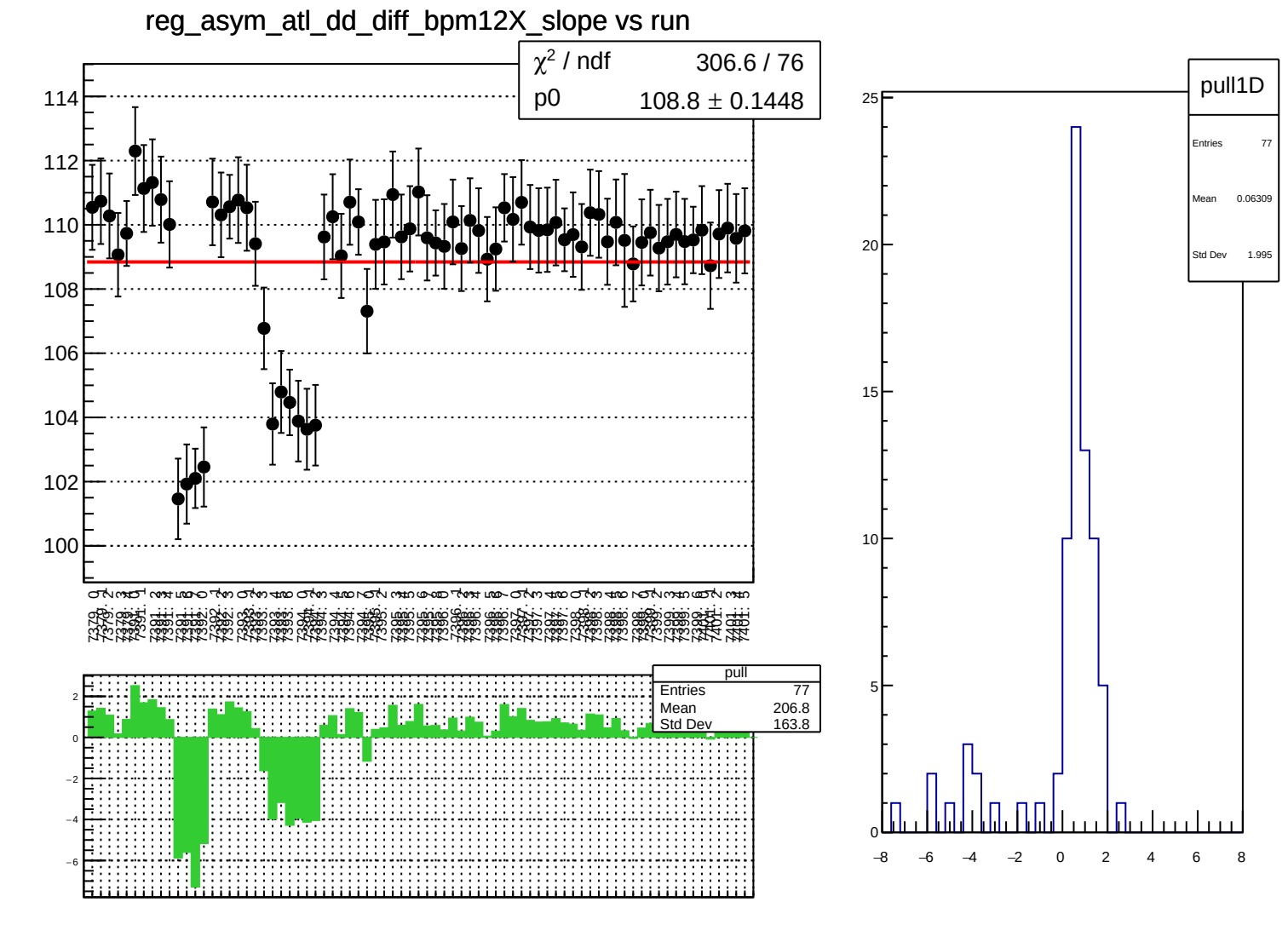

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.73 / 76
p0 17.16 ± 2.984
pull
Entries 77
Mean 459
Std Dev 423.2
pull1D
Entries 77
Mean 0.01002
Std Dev 0.4519

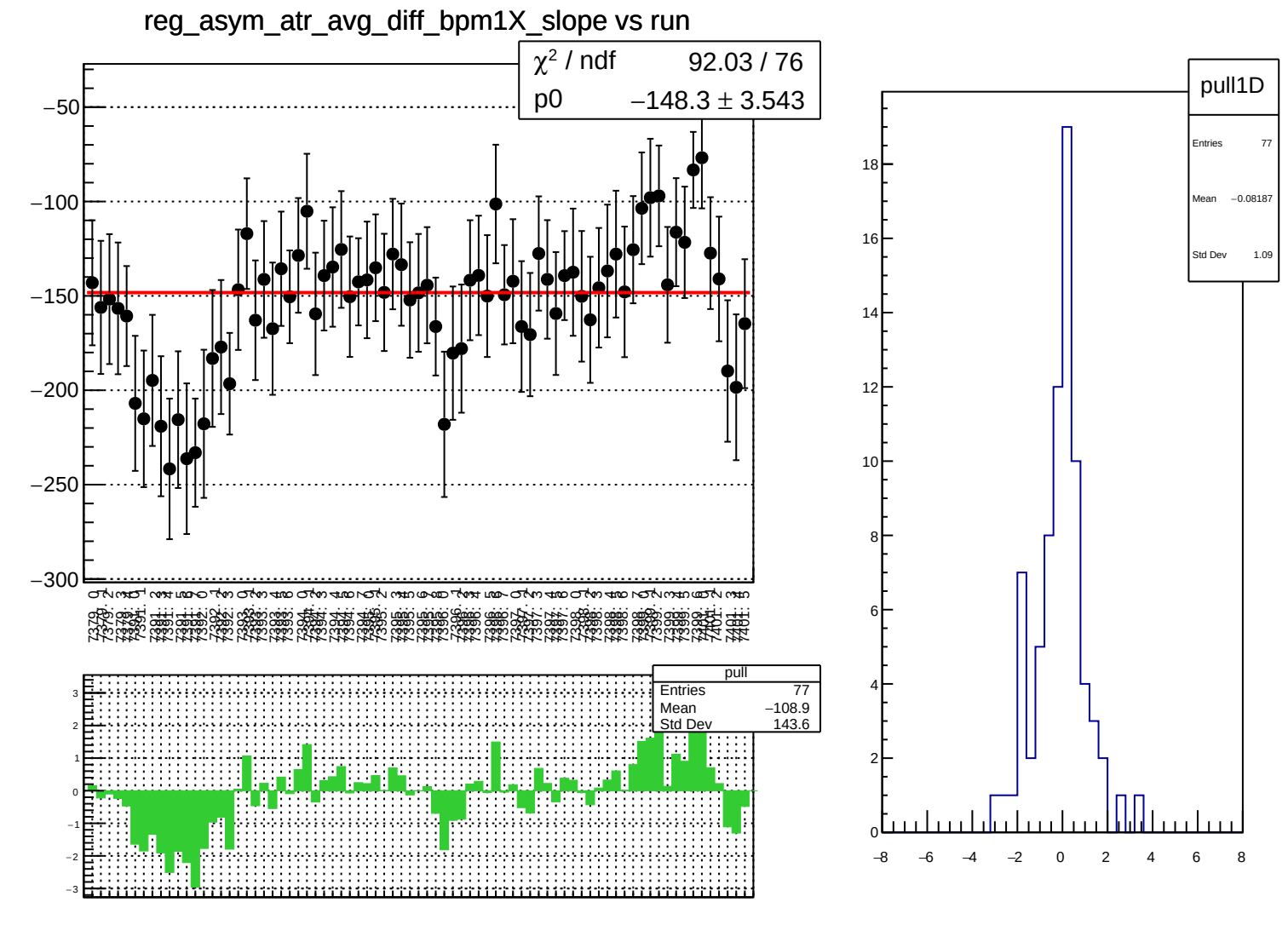

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.68 / 76
p0 −110.8 ± 2.96
pull
Entries 77
Mean −137.2
Std Dev 174.5

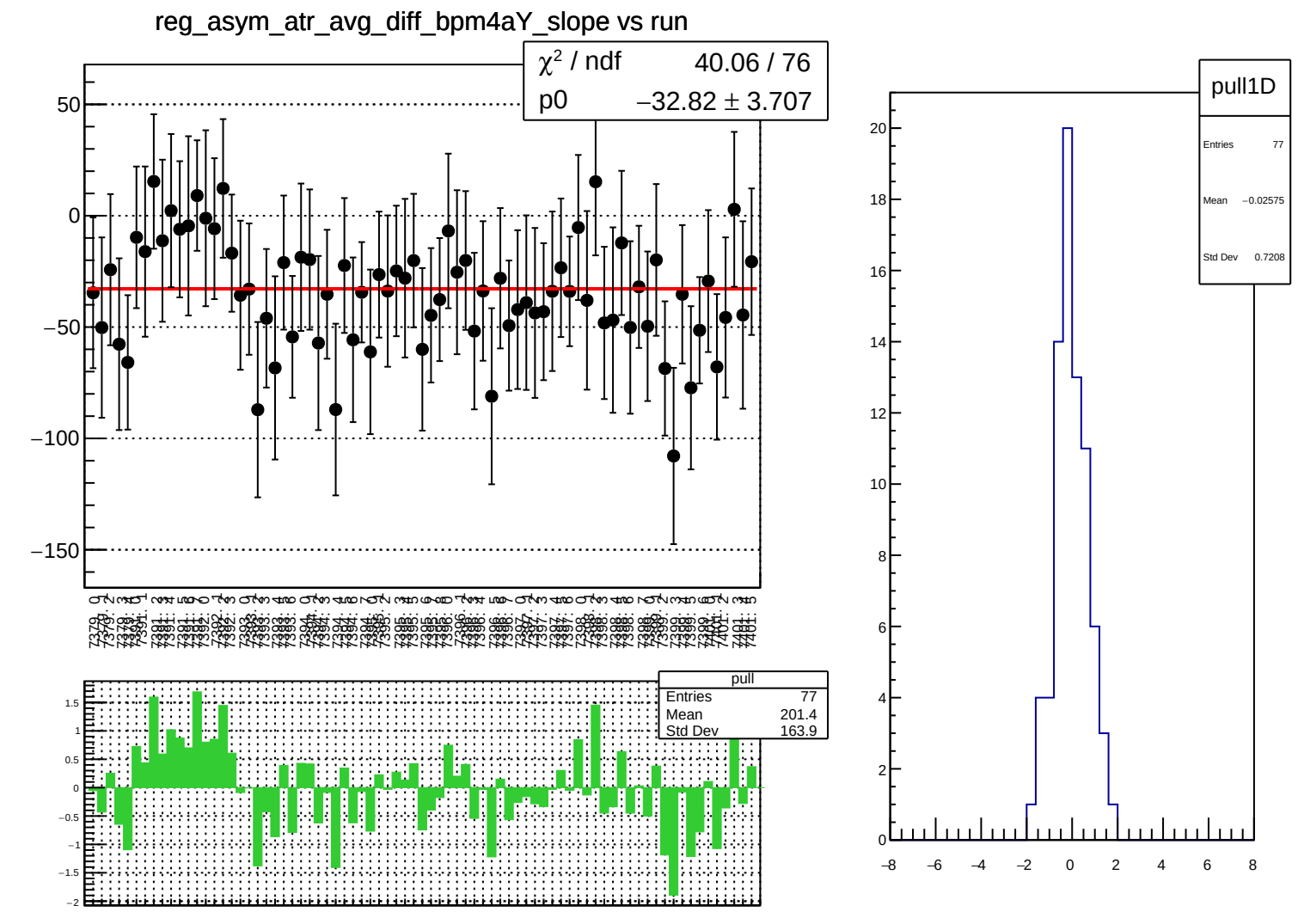

pull1D
Entries 77
Mean −0.03415
Std Dev 0.6703

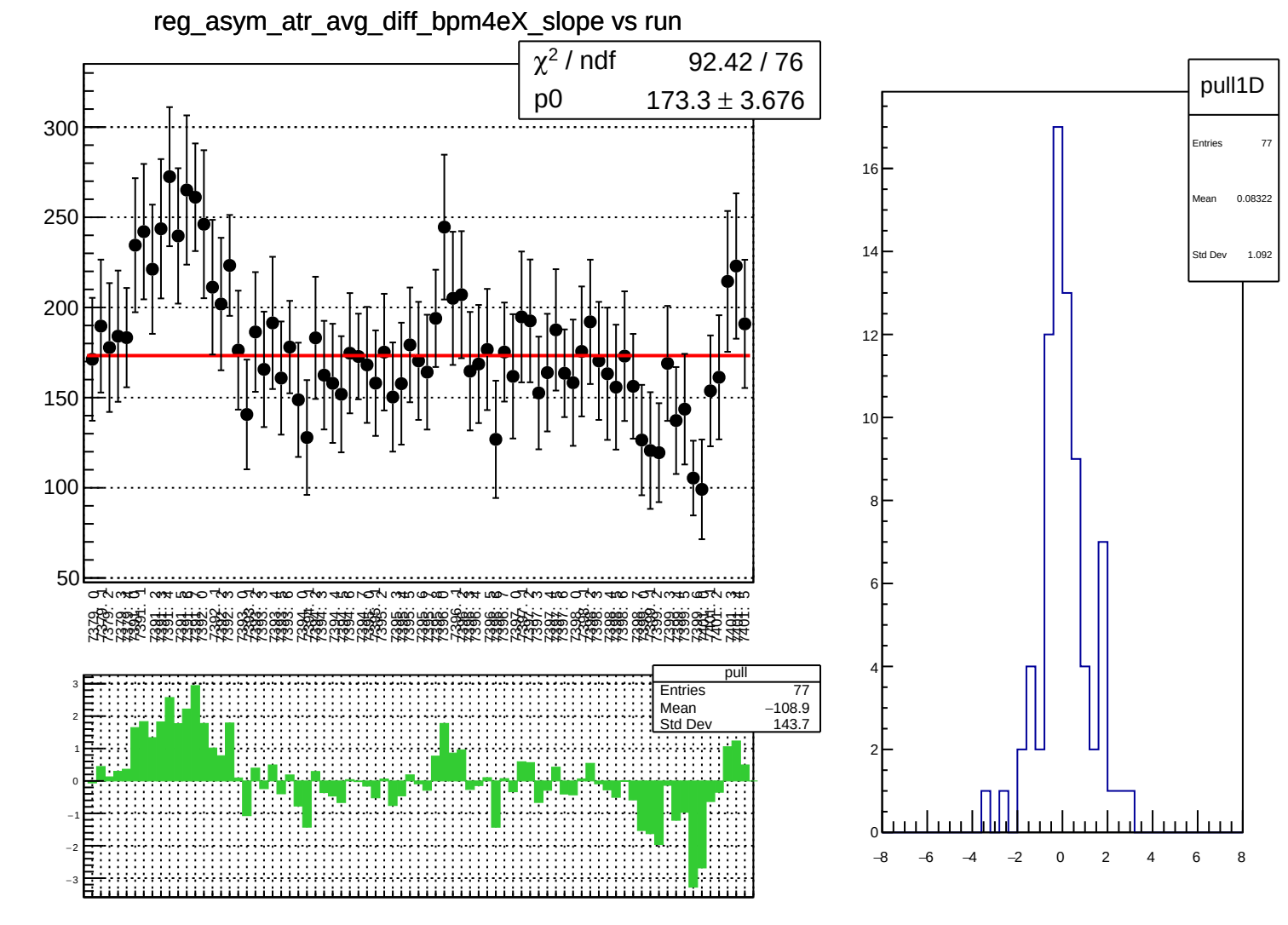

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 13.54 / 76
p0 −79.81 ± 3.182
pull
Entries 77
Mean 788.7
Std Dev 754.1

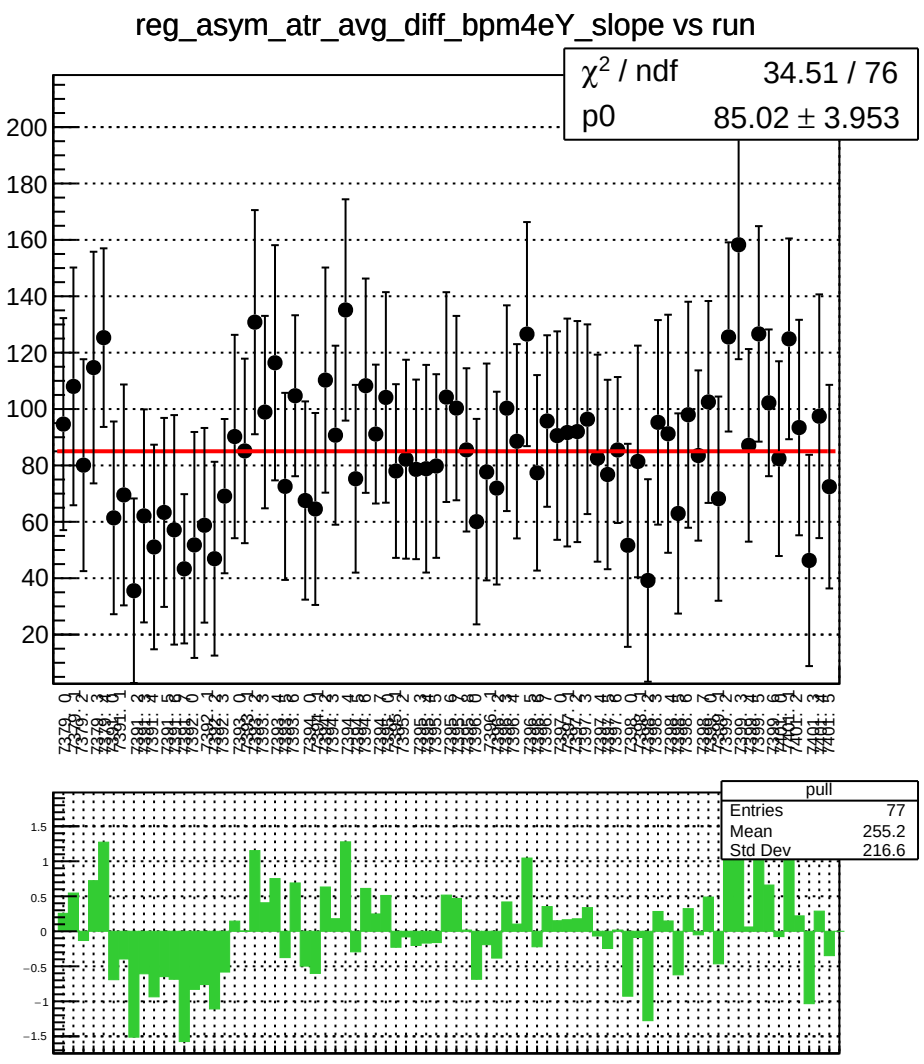

pull1D
Entries 77
Mean −0.004576
Std Dev 0.4193

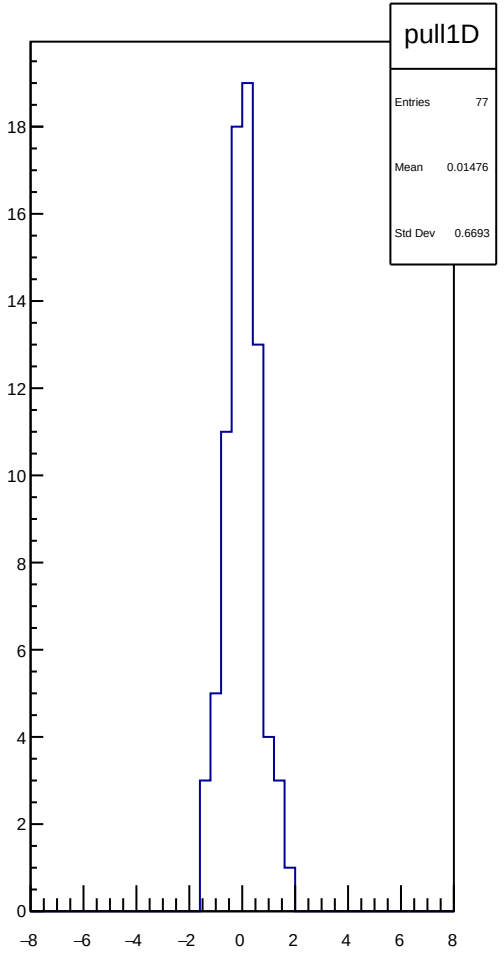

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 306.6 / 76
p0 108.8 ± 0.1448
pull
Entries 77
Mean 206.8
Std Dev 163.8
pull1D
Entries 77
Mean 0.06309
Std Dev 1.995

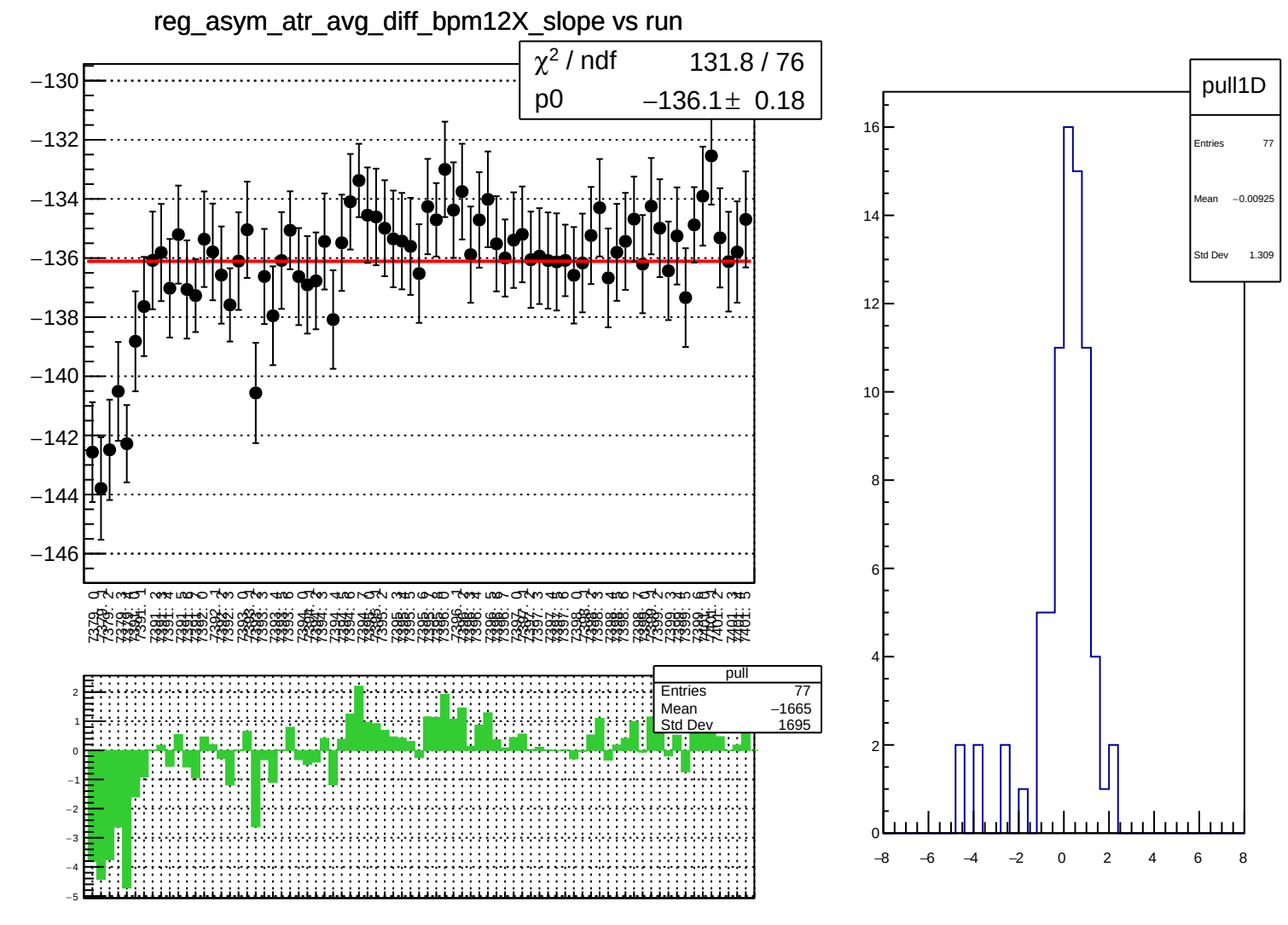

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 92.03 / 76
p0 −148.3 ± 3.543
pull
Entries 77
Mean −108.9
Std Dev 143.6
pull1D
Entries 77
Mean −0.08187
Std Dev 1.09

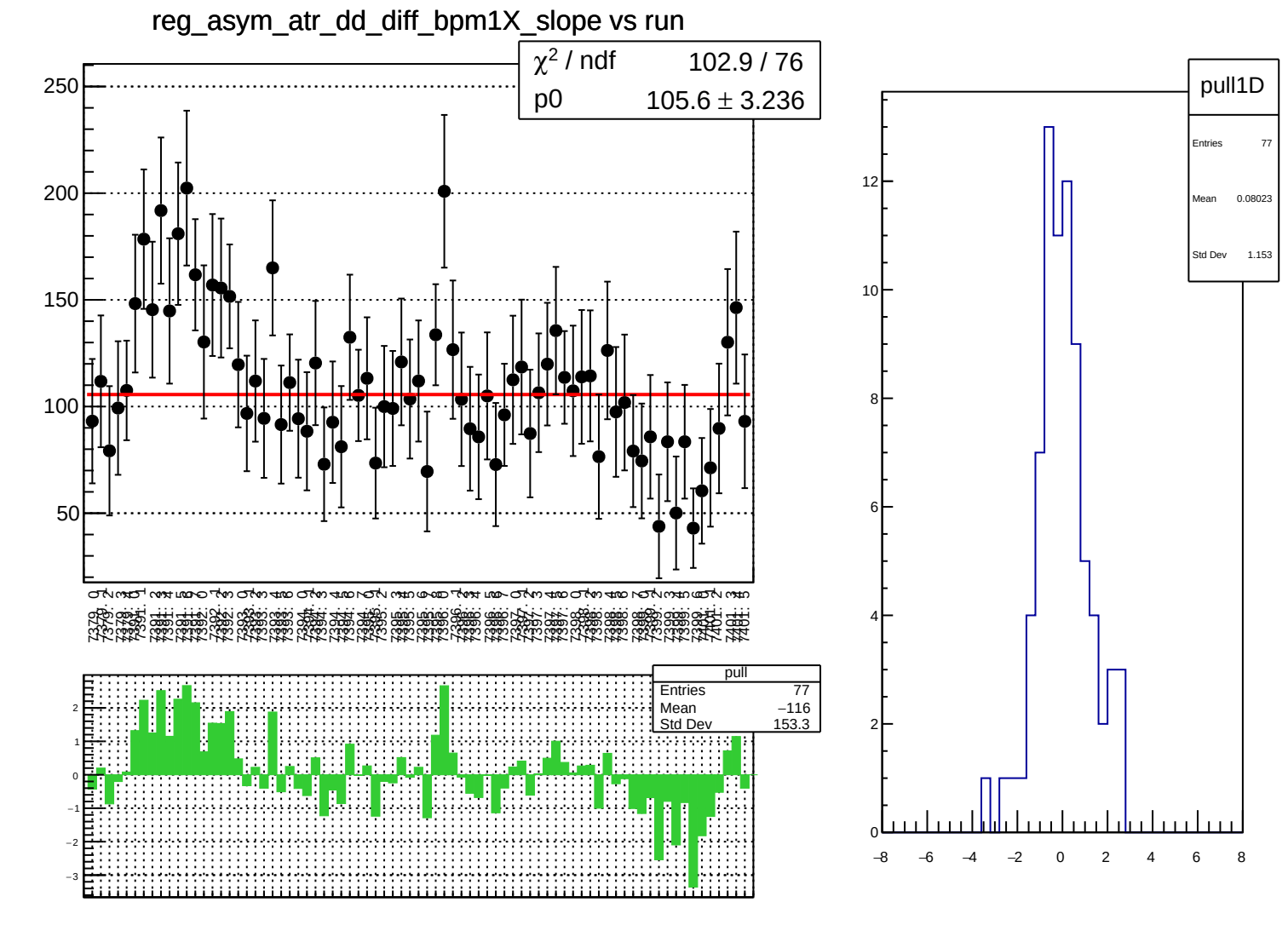

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.06 / 76
p0 −32.82 ± 3.707
pull
Entries 77
Mean 201.4
Std Dev 163.9
pull1D
Entries 77
Mean −0.02575
Std Dev 0.7208

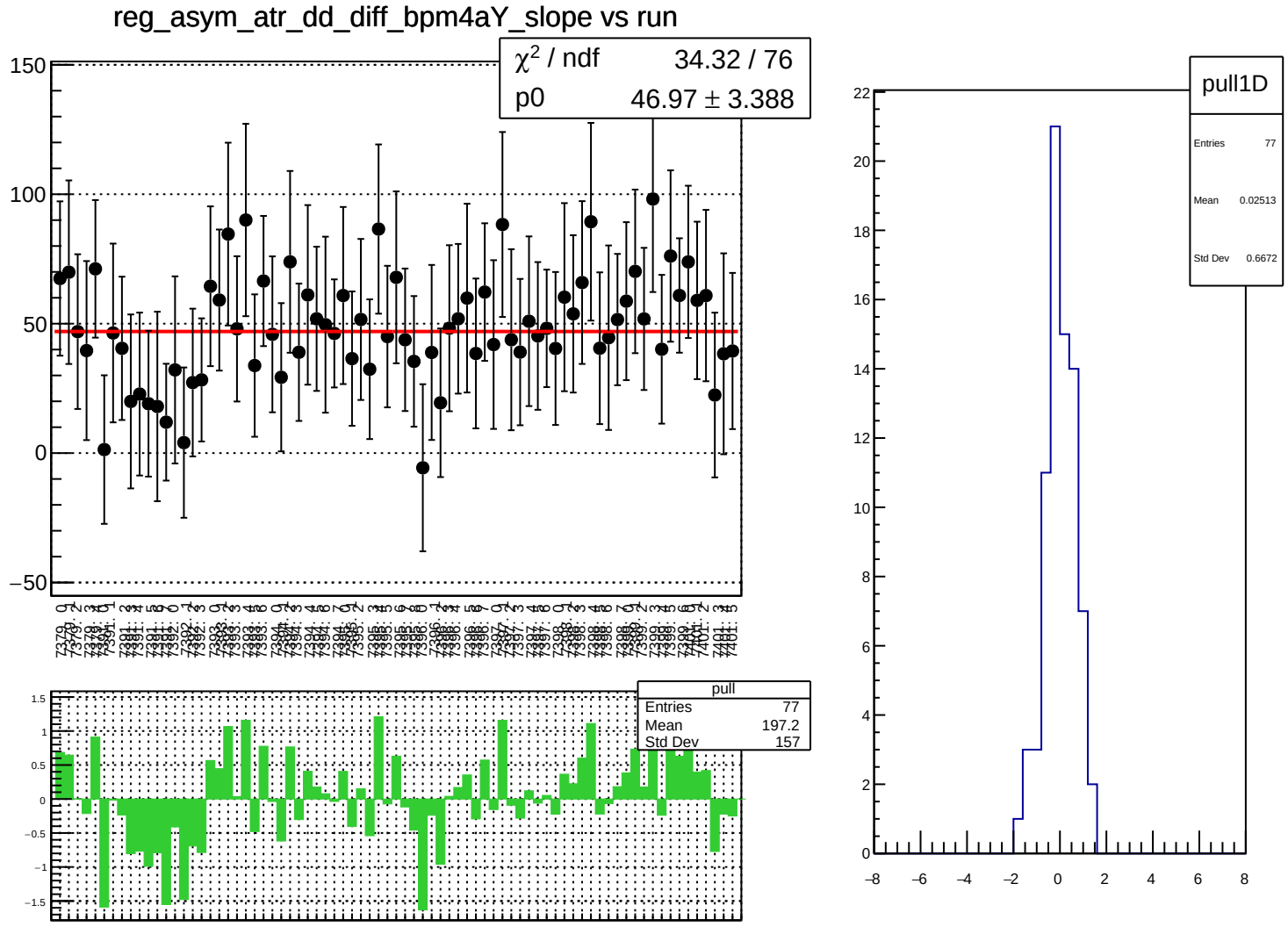

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 92.42 / 76
p0 173.3 ± 3.676
pull
Entries 77
Mean −108.9
Std Dev 143.7
pull1D
Entries 77
Mean 0.08322
Std Dev 1.092

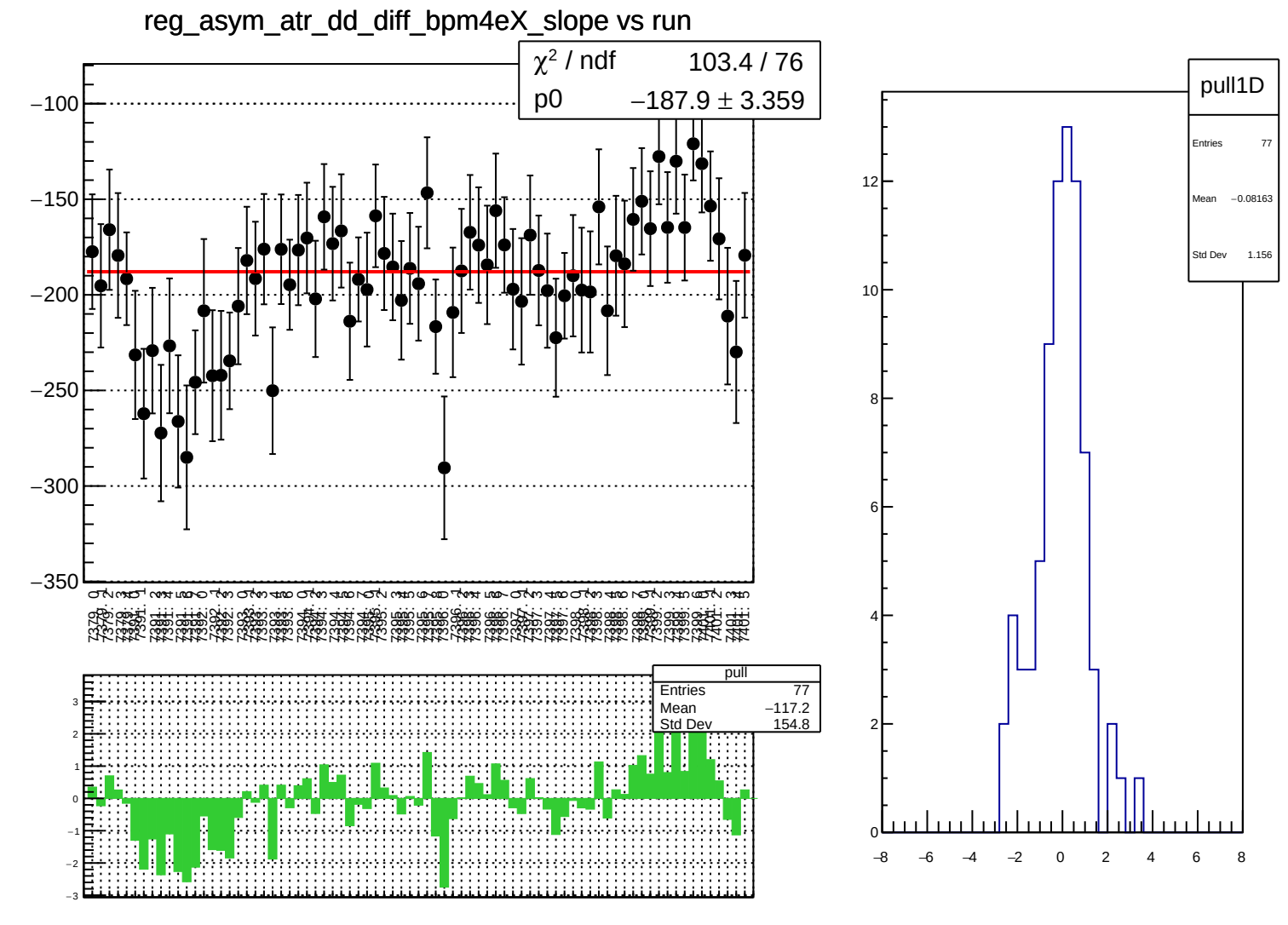

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 34.51 / 76
p0 85.02 ± 3.953
pull
Entries 77
Mean 255.2
Std Dev 216.6

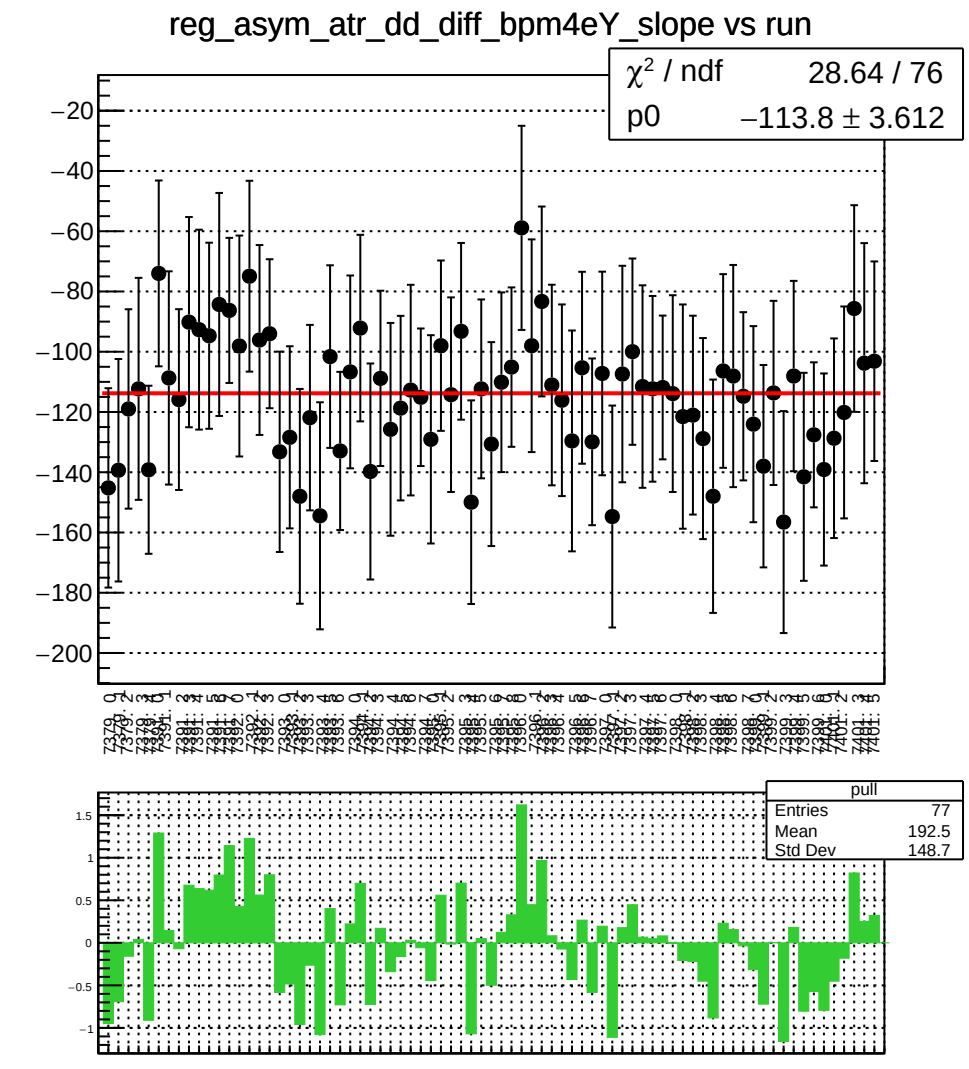

pull1D
Entries 77
Mean 0.01476
Std Dev 0.6693

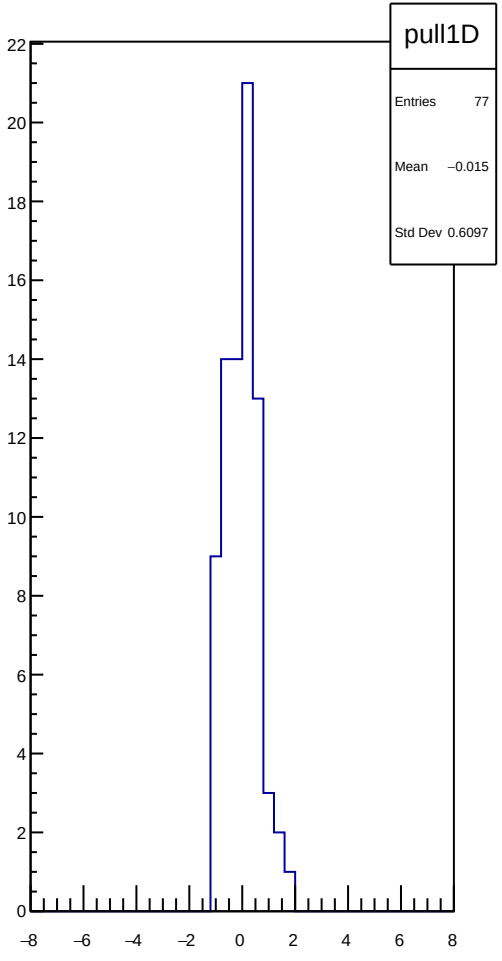

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ^2 / ndf 131.8 / 76
p0 −136.1± 0.18
pull
Entries 77
Mean −1665
Std Dev 1695
pull1D
Entries 77
Mean −0.00925
Std Dev 1.309

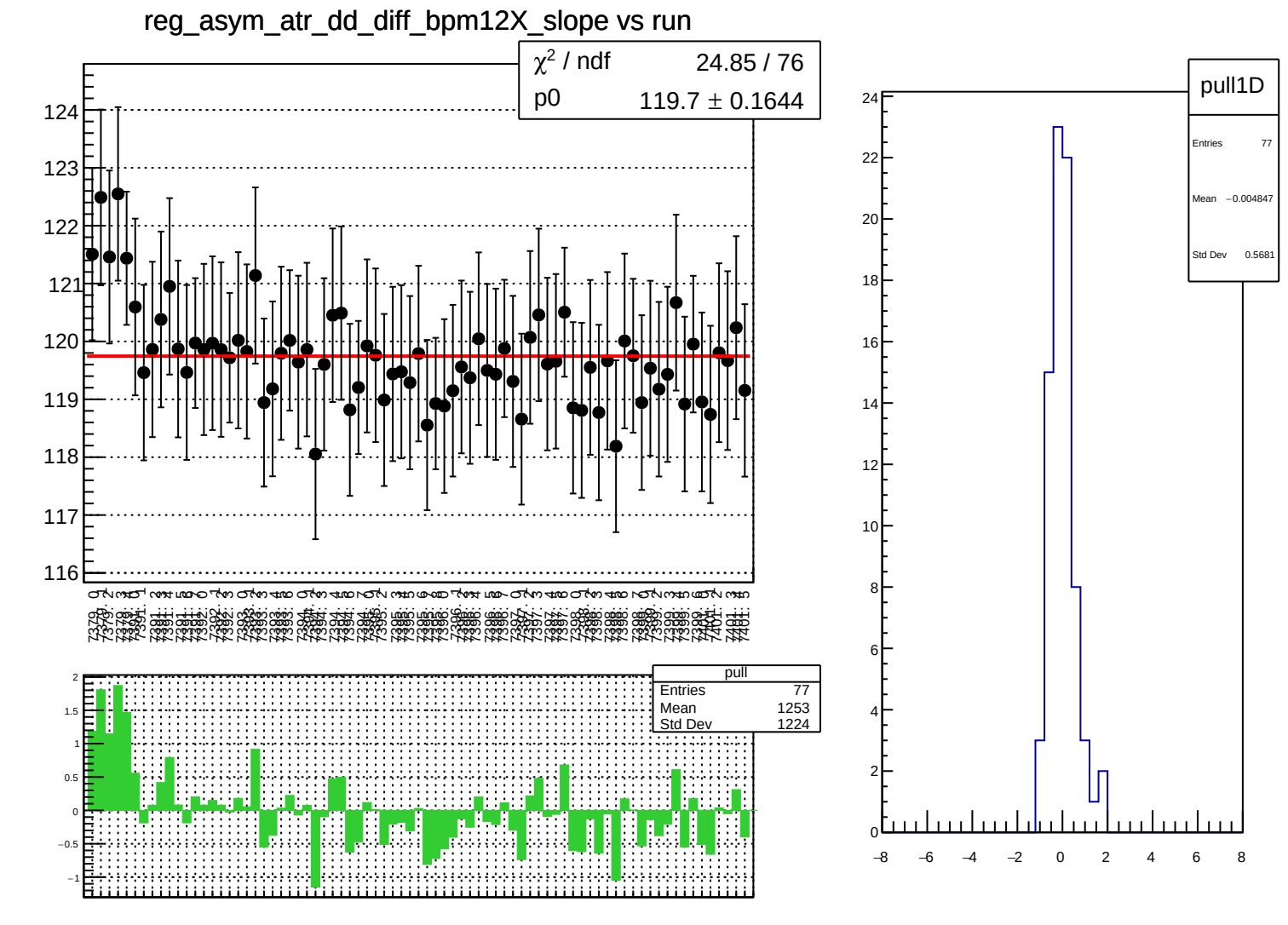

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 102.9 / 76
p0 105.6 ± 3.236
250
200
150
100
50
pull
Entries 77
Mean −116
Std Dev 153.3
2
1
0
−1
−2
−3
pull1D
Entries 77
Mean 0.08023
Std Dev 1.153
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

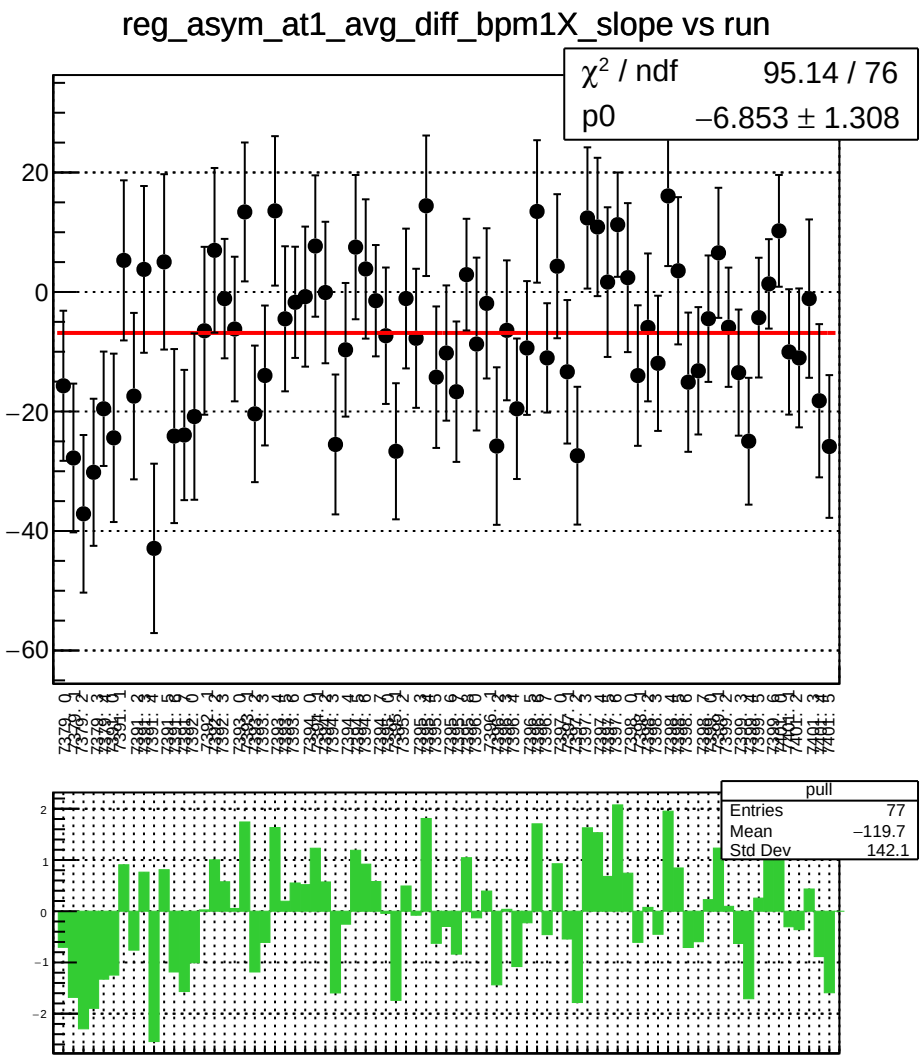

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.32 / 76
p0 46.97 ± 3.388
150
100
50
0
−50
pull
Entries 77
Mean 197.2
Std Dev 157
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 77
Mean 0.02513
Std Dev 0.6672
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

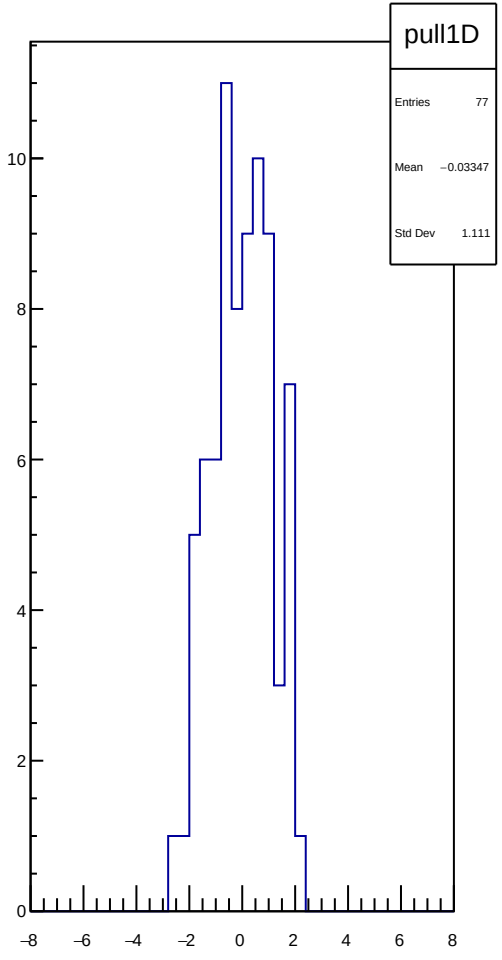

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 103.4 / 76
p0 −187.9 ± 3.359
pull
Entries 77
Mean −117.2
Std Dev 154.8
pull1D
Entries 77
Mean −0.08163
Std Dev 1.156

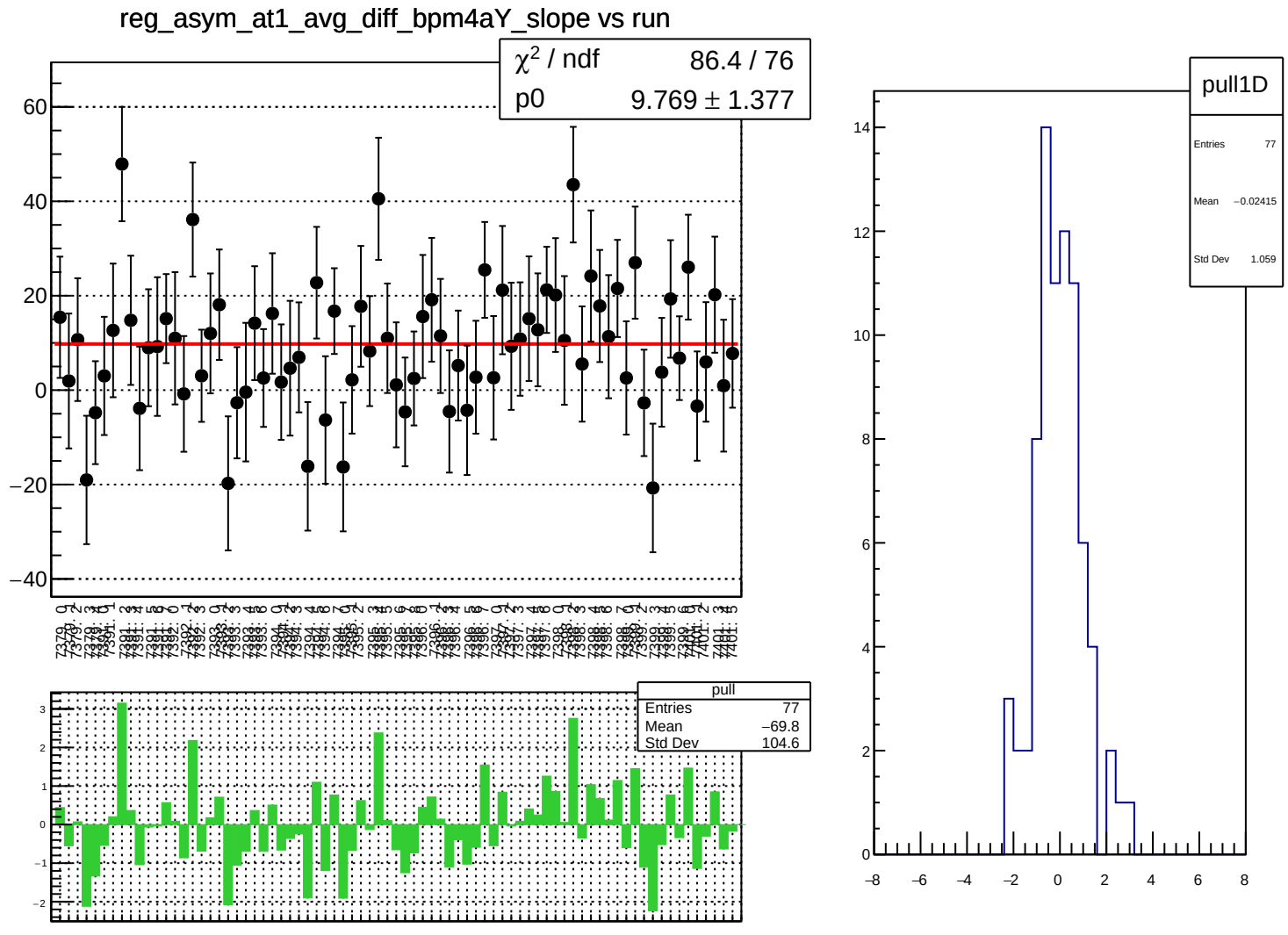

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.64 / 76
p0 −113.8 ± 3.612
pull
Entries 77
Mean 192.5
Std Dev 148.7

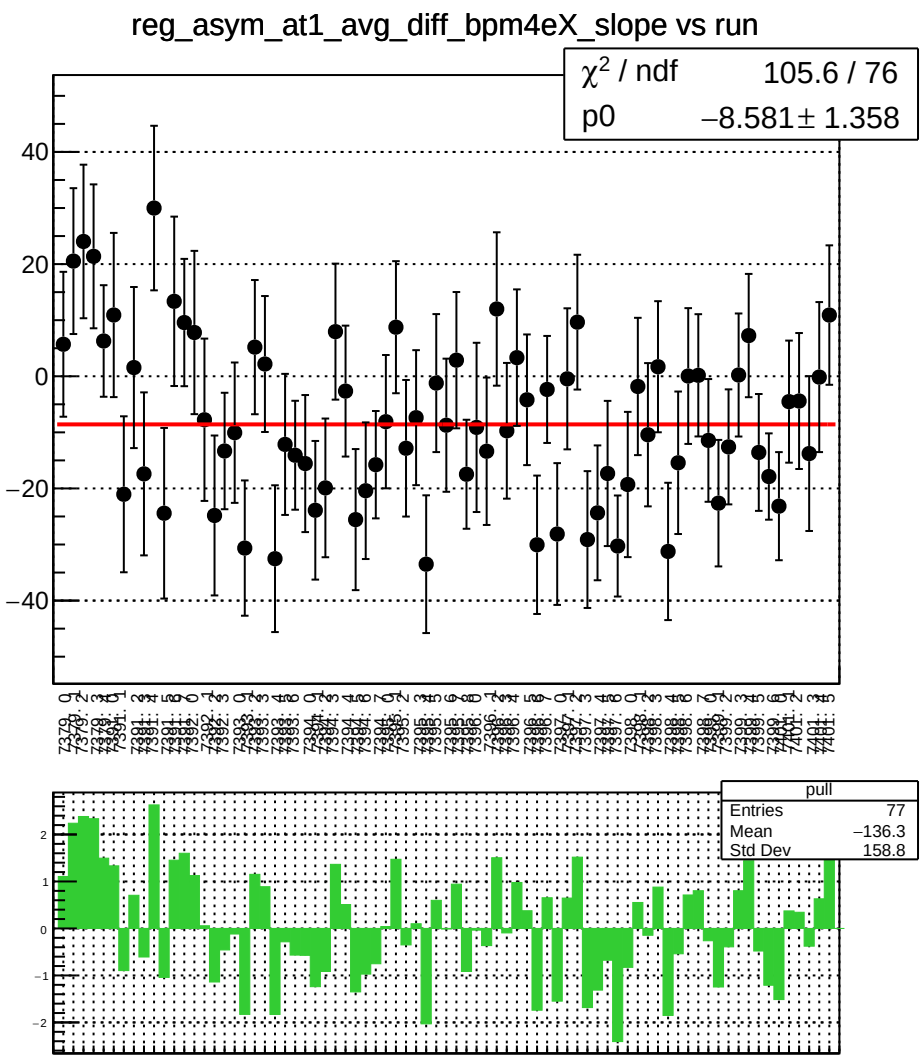

pull1D
Entries 77
Mean −0.015
Std Dev 0.6097

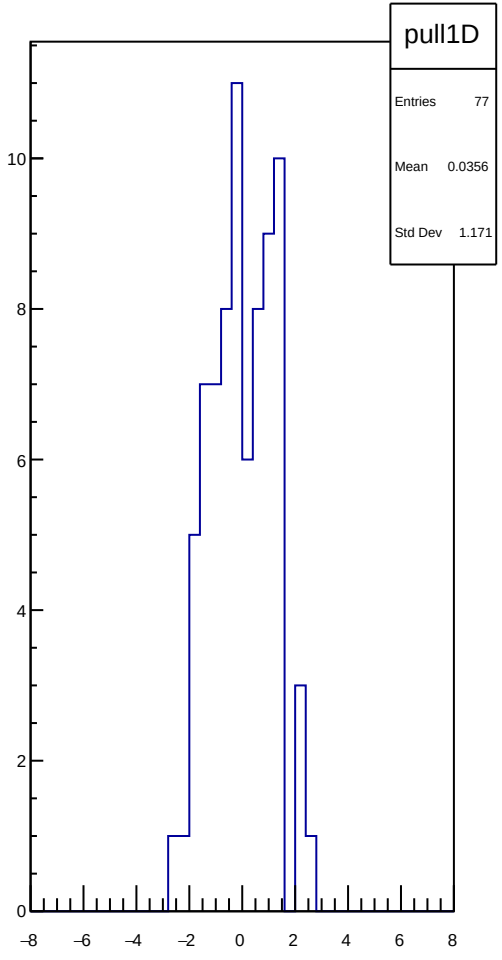

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 24.85 / 76
p0 119.7 ± 0.1644
pull
Entries 77
Mean 1253
Std Dev 1224
pull1D
Entries 77
Mean −0.004847
Std Dev 0.5681

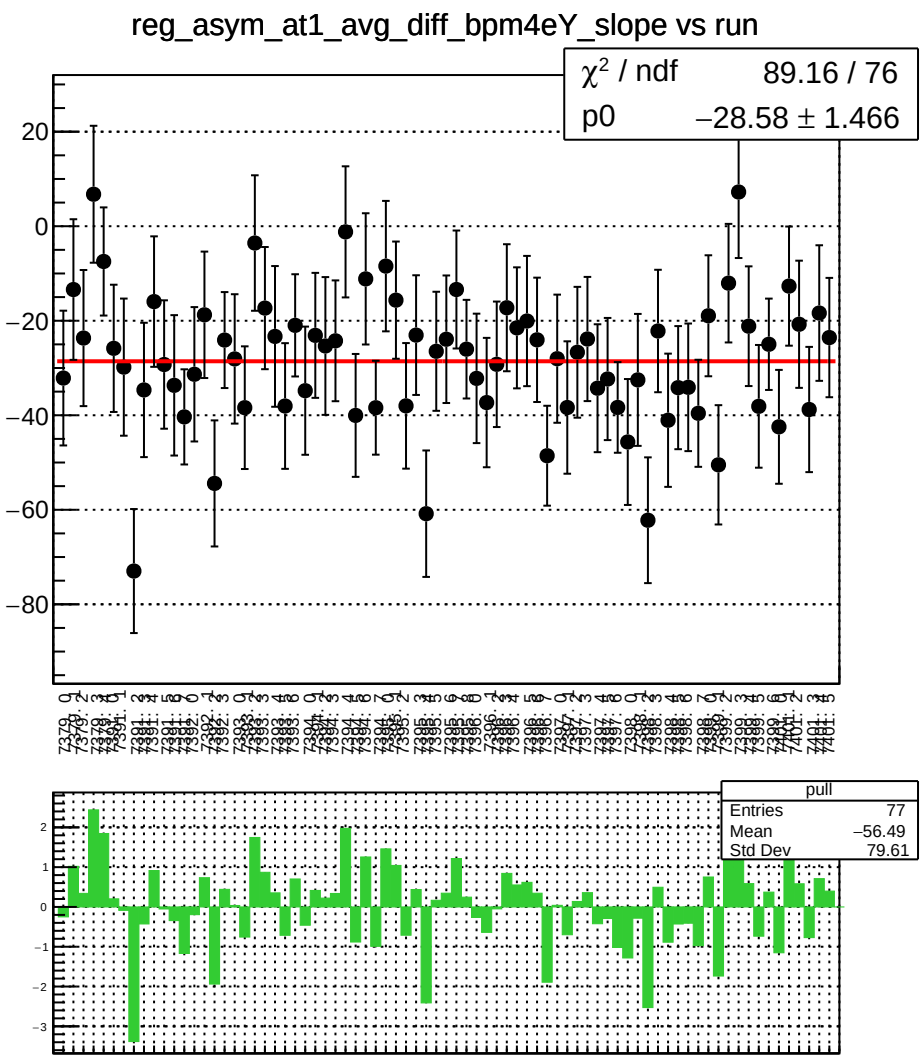

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 95.14 / 76
p0 −6.853 ± 1.308
pull
Entries 77
Mean −119.7
Std Dev 142.1

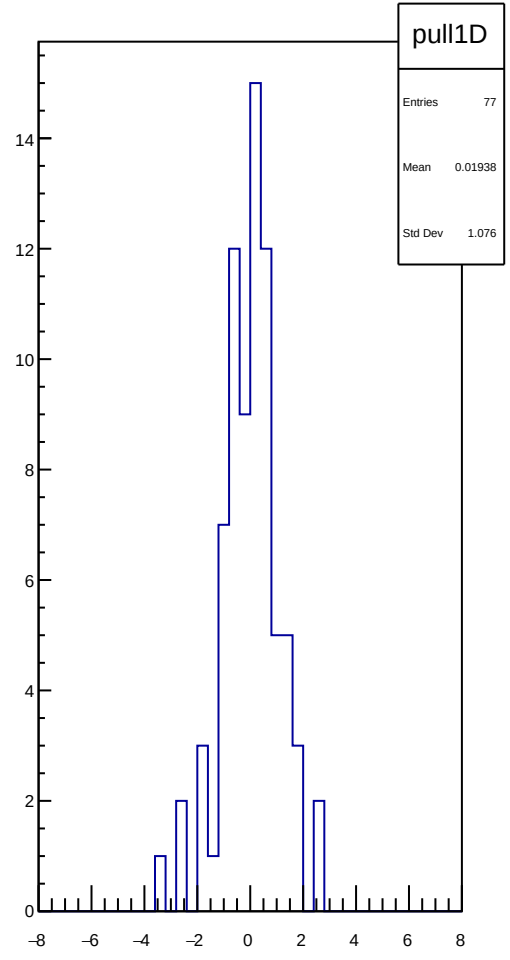

pull1D
Entries 77
Mean −0.03347
Std Dev 1.111

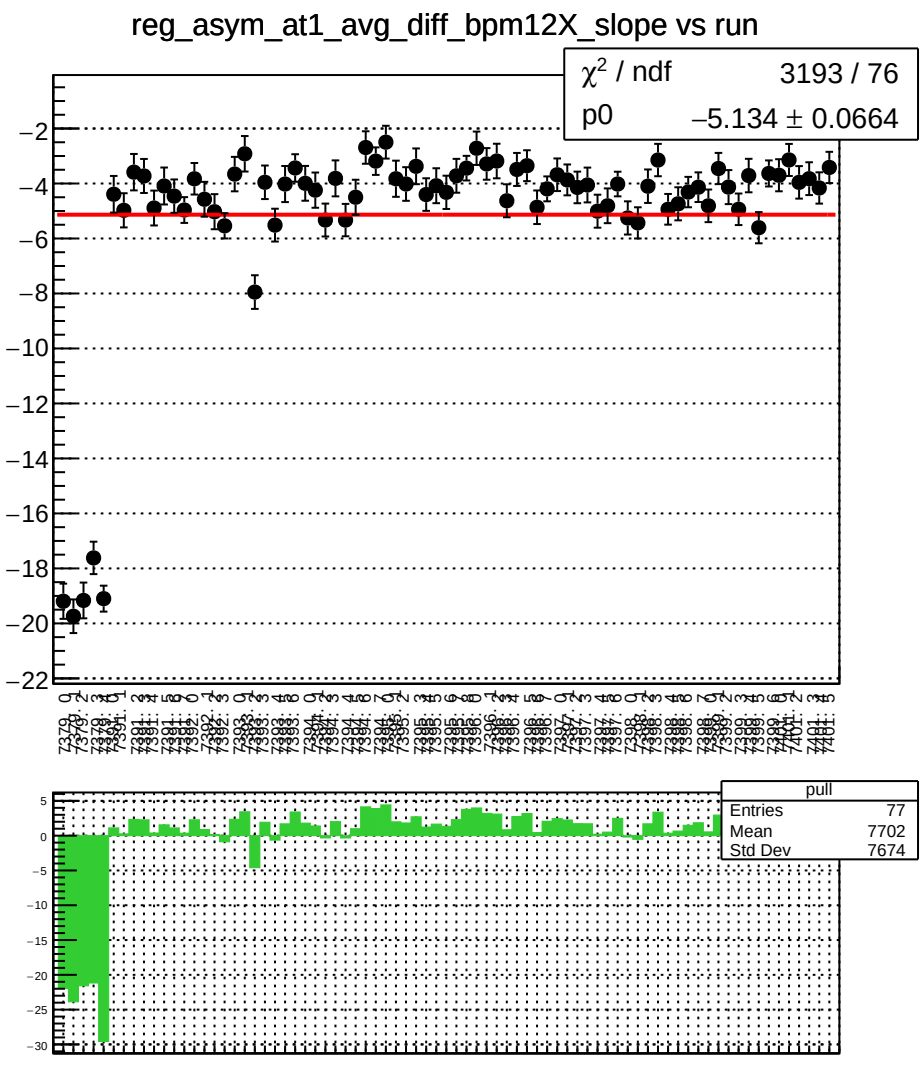

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 86.4 / 76
p0 9.769 ± 1.377
pull
Entries 77
Mean −69.8
Std Dev 104.6
pull1D
Entries 77
Mean −0.02415
Std Dev 1.059

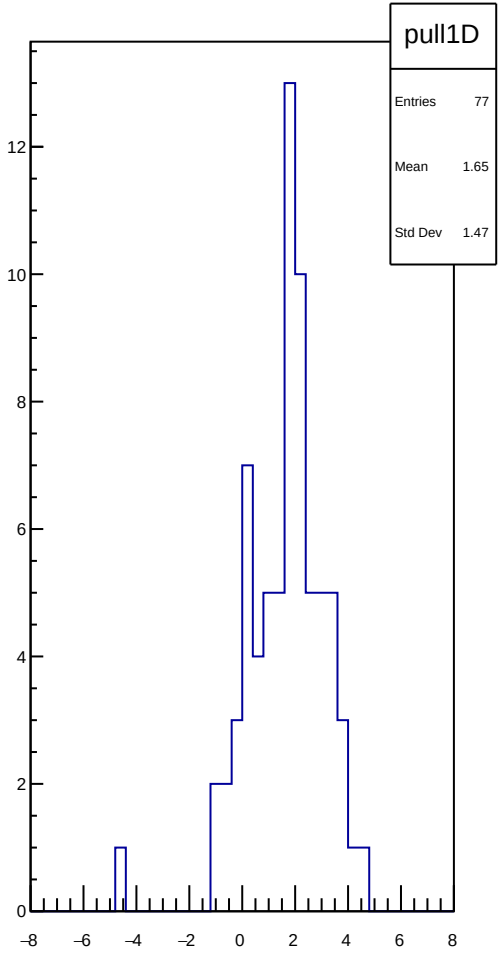

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 105.6 / 76
p0 −8.581 ± 1.358
pull
Entries 77
Mean −136.3
Std Dev 158.8

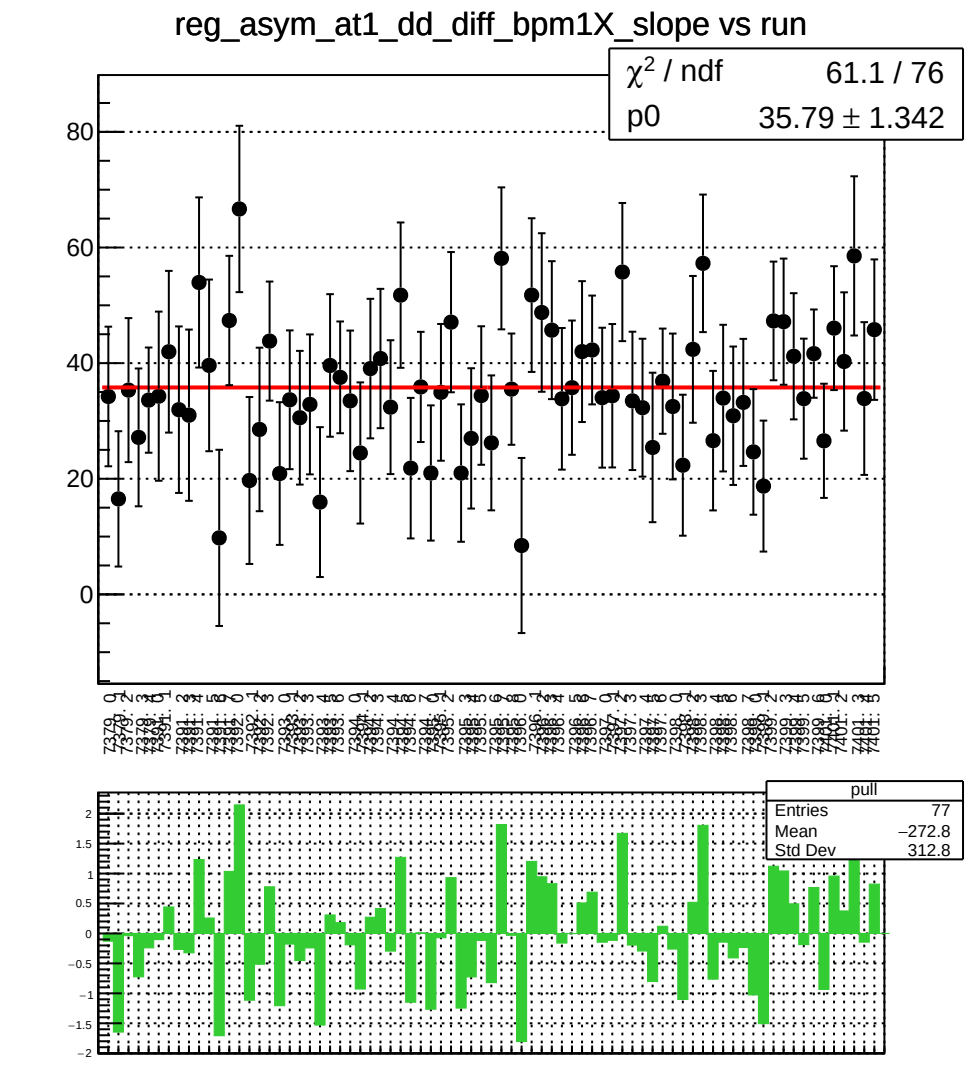

pull1D
Entries 77
Mean 0.0356
Std Dev 1.171

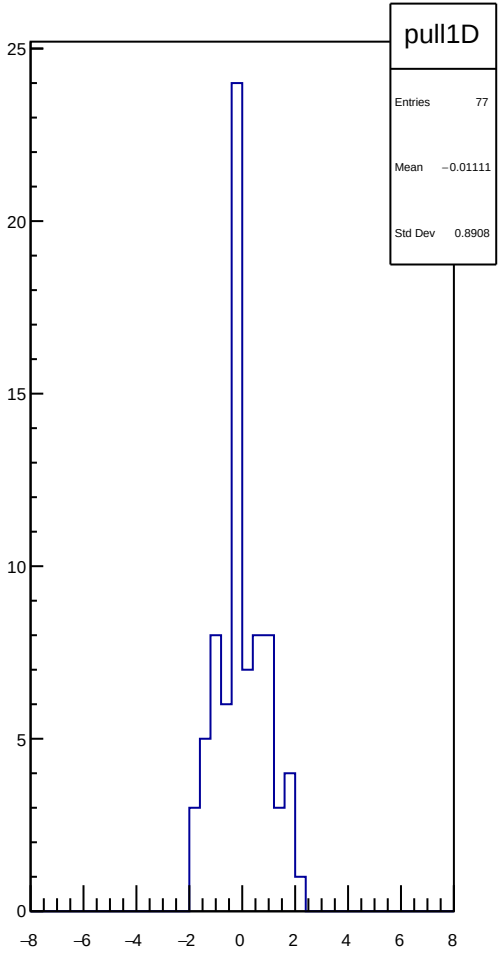

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 89.16 / 76
p0 −28.58 ± 1.466
pull
Entries 77
Mean −56.49
Std Dev 79.61

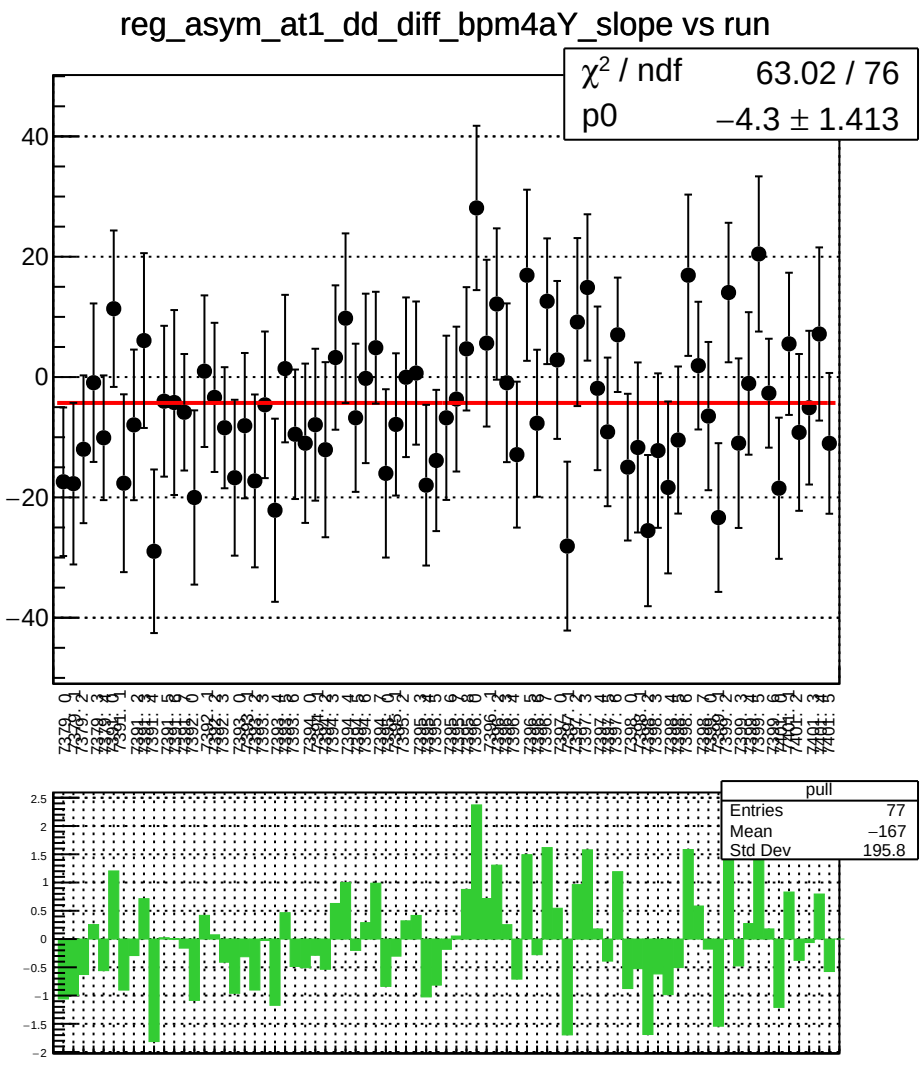

pull1D
Entries 77
Mean 0.01938
Std Dev 1.076

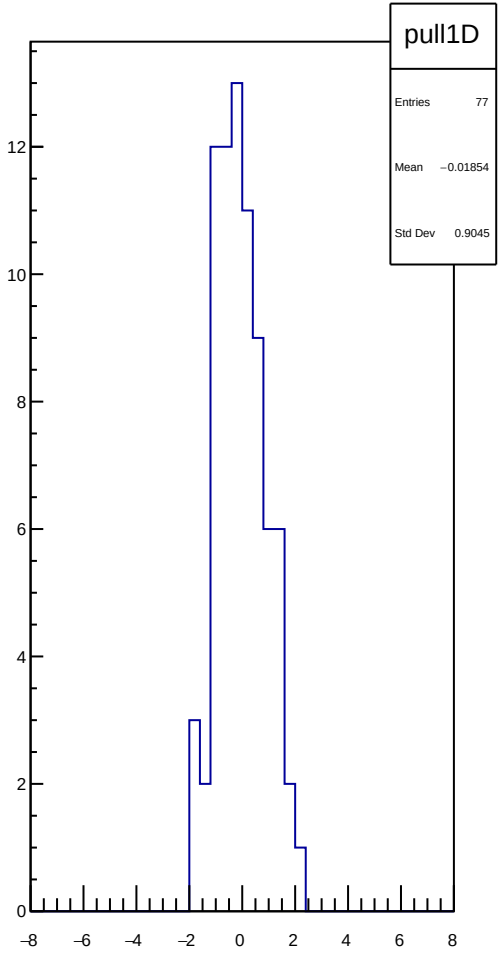

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 3193 / 76
p0 −5.134 ± 0.0664
pull
Entries 77
Mean 7702
Std Dev 7674

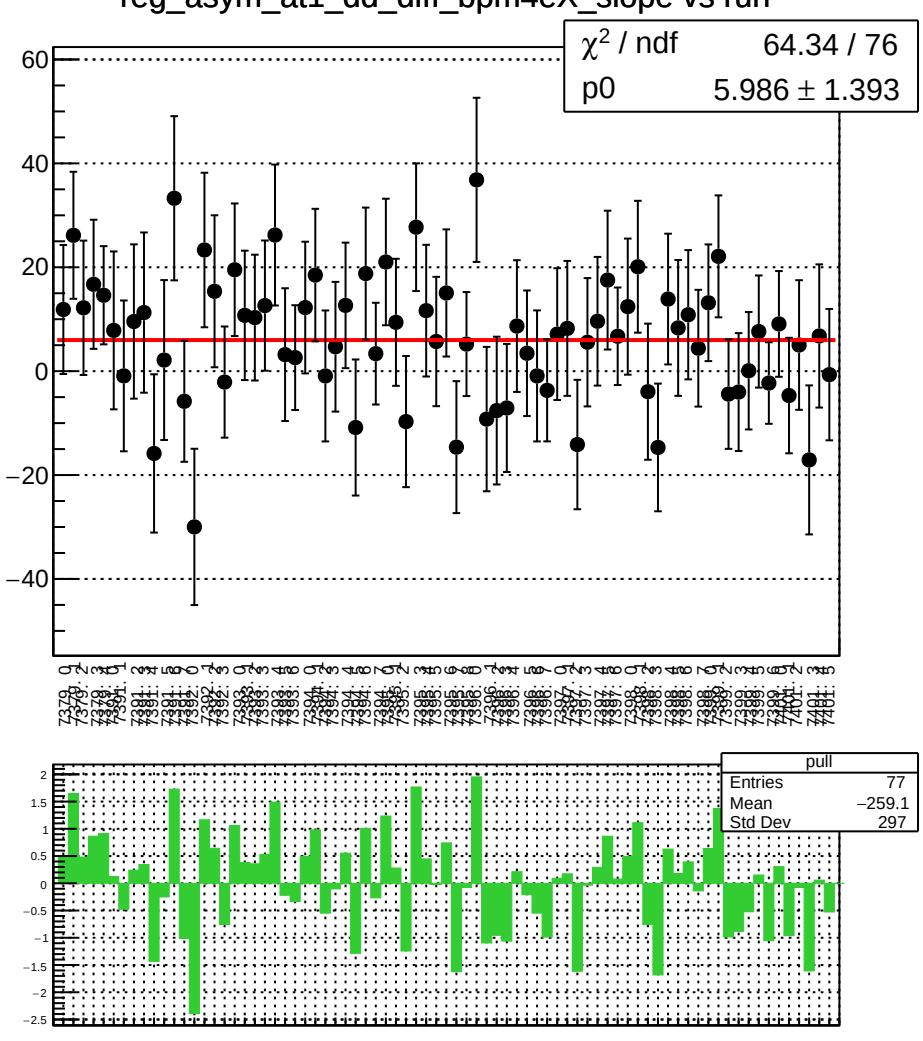

pull1D
Entries 77
Mean 1.65
Std Dev 1.47

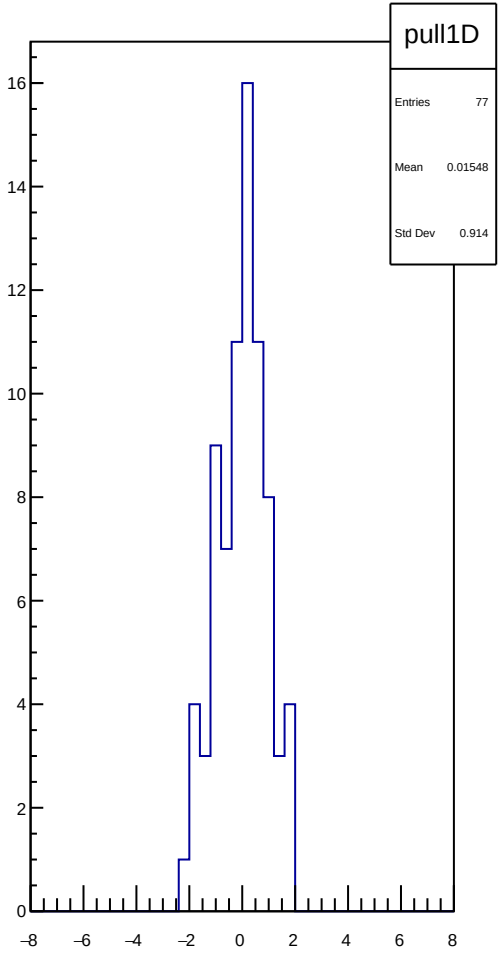

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 61.1 / 76
p0 35.79 ± 1.342
pull
Entries 77
Mean −272.8
Std Dev 312.8

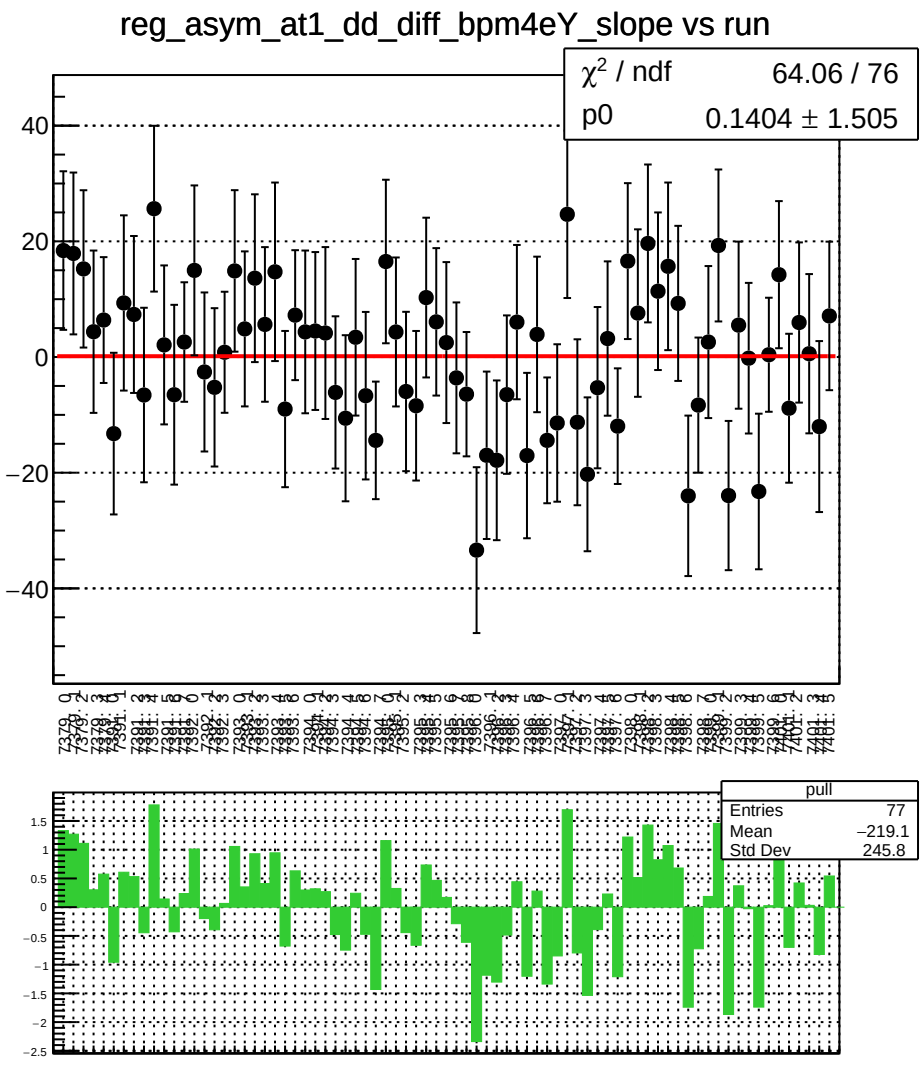

pull1D
Entries 77
Mean −0.01111
Std Dev 0.8908

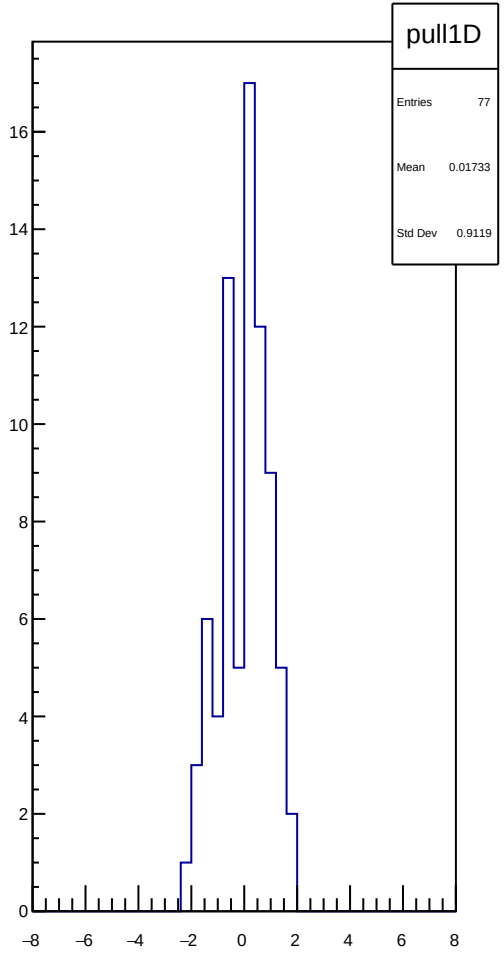

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.02 / 76
p0 −4.3 ± 1.413
pull
Entries 77
Mean −167
Std Dev 195.8

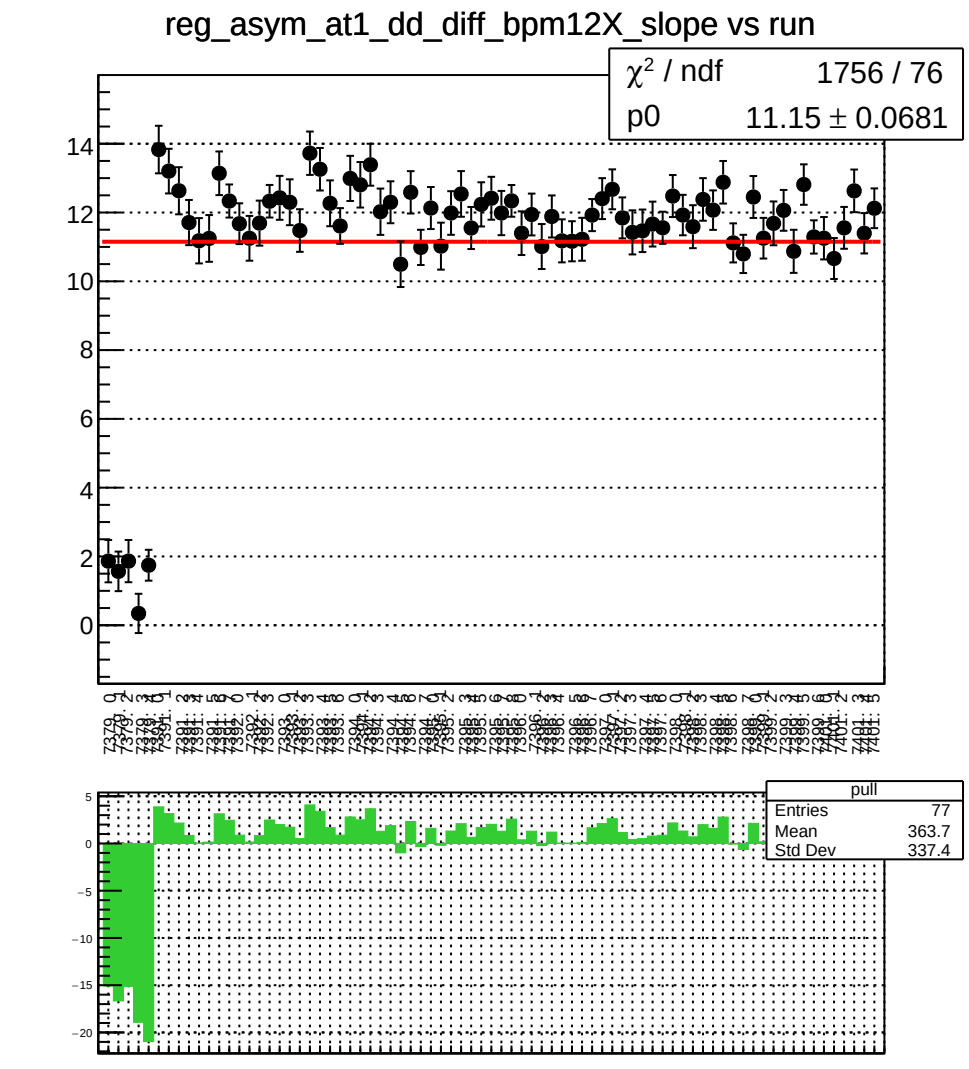

pull1D
Entries 77
Mean −0.01854
Std Dev 0.9045

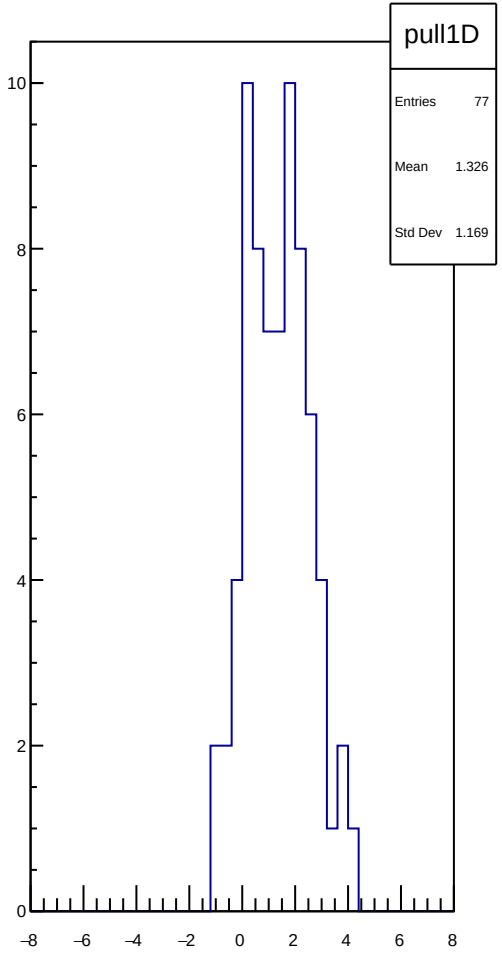

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.34 / 76
p0 5.986 ± 1.393
pull
Entries 77
Mean −259.1
Std Dev 297

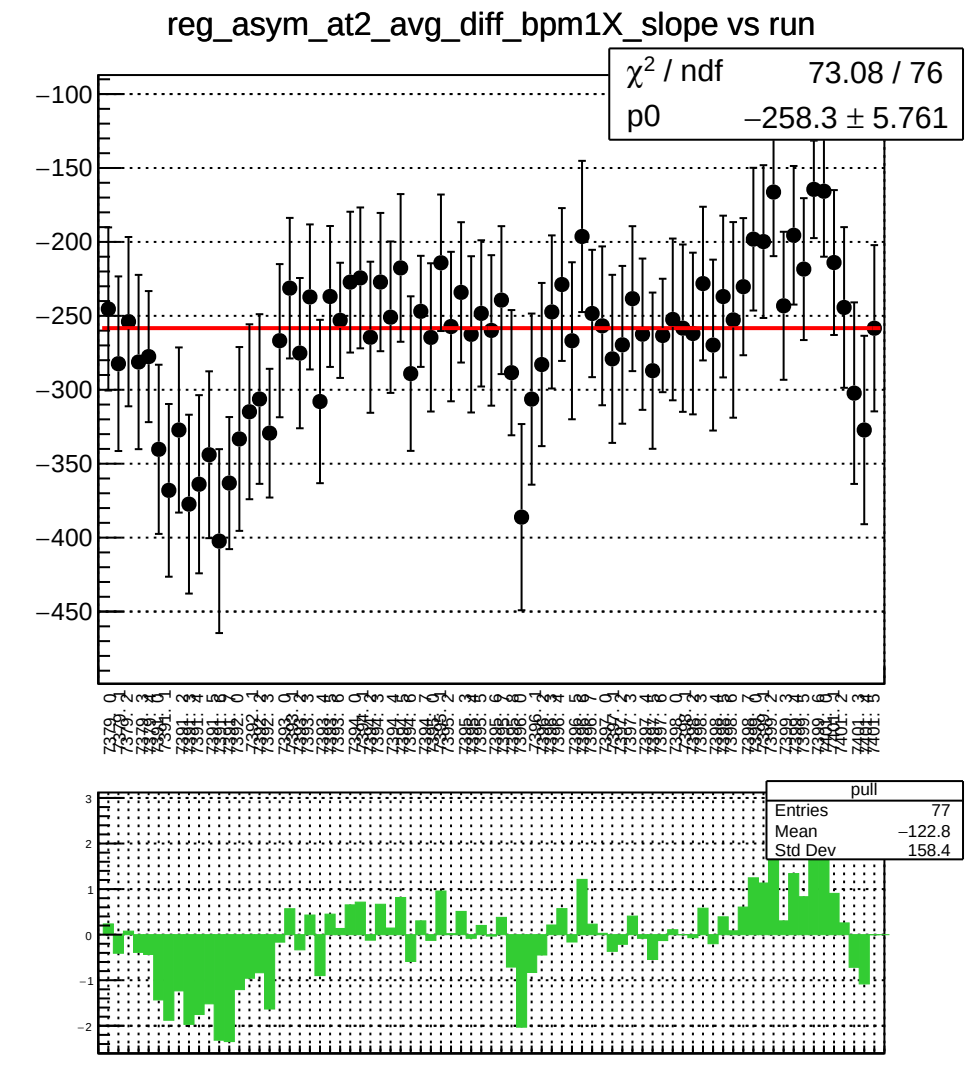

pull1D
Entries 77
Mean 0.01548
Std Dev 0.914

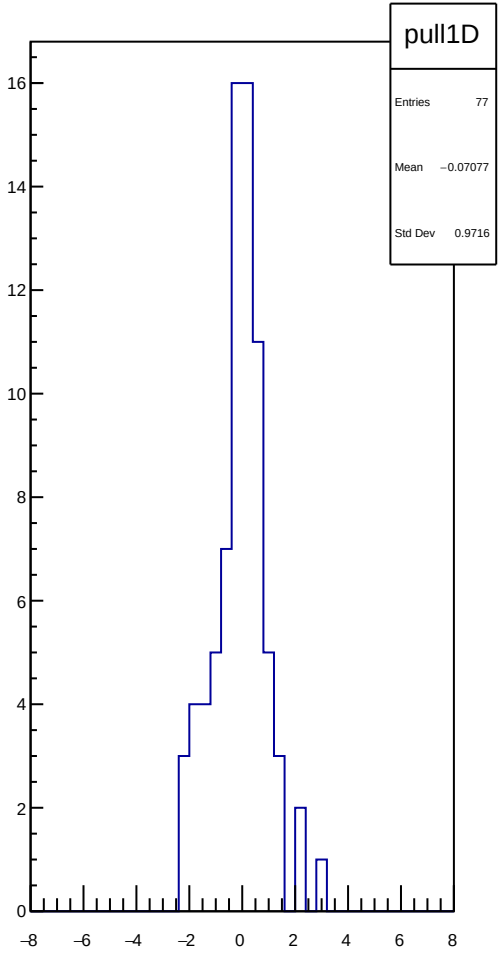

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.06 / 76
p0 0.1404 ± 1.505
40
20
0
−20
−40
pull
Entries 77
Mean −219.1
Std Dev 245.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

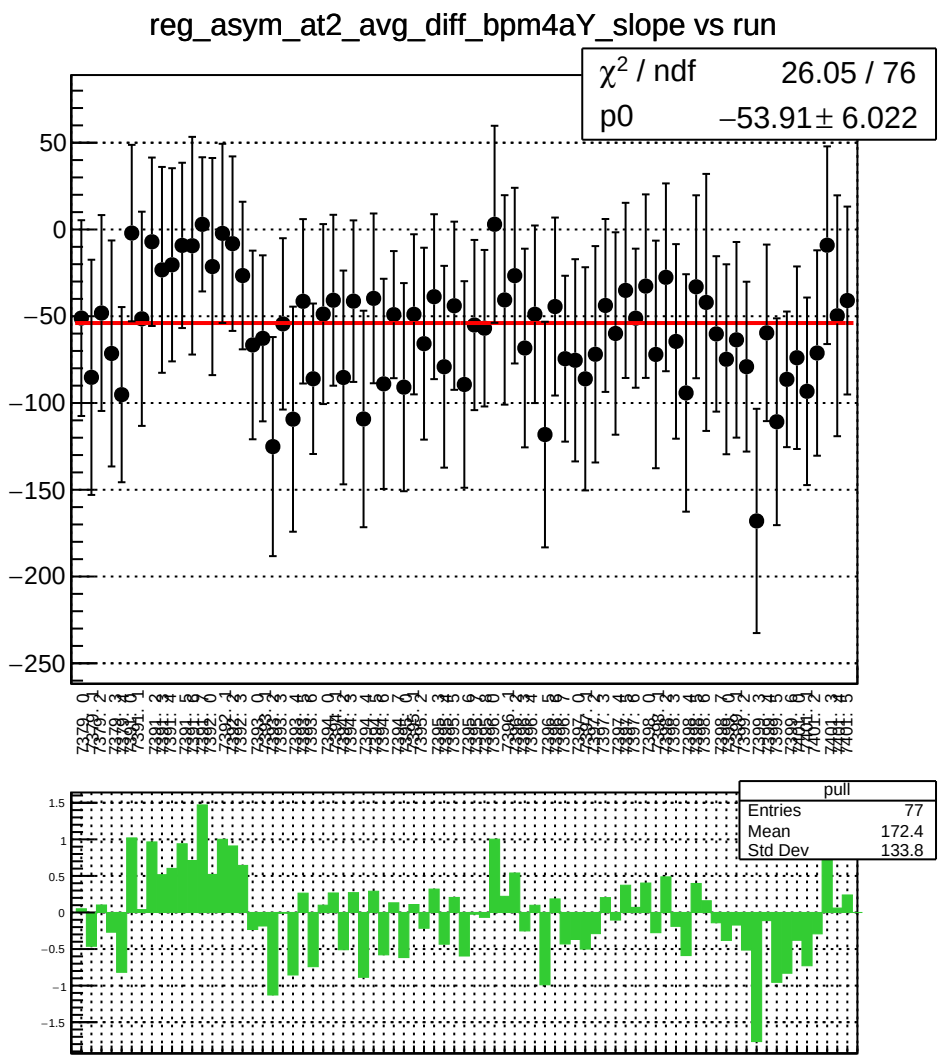

pull1D
Entries 77
Mean 0.01733
Std Dev 0.9119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

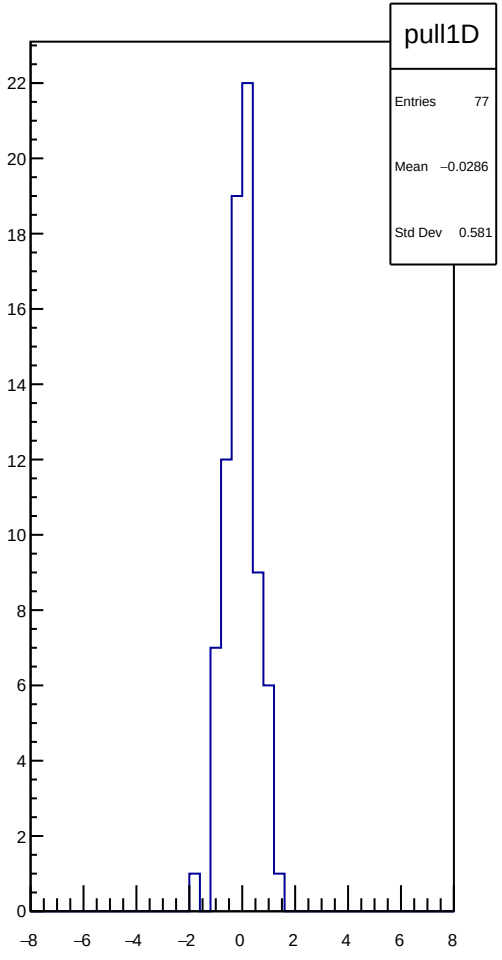

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 1756 / 76
p0 11.15 ± 0.0681
pull
Entries 77
Mean 363.7
Std Dev 337.4

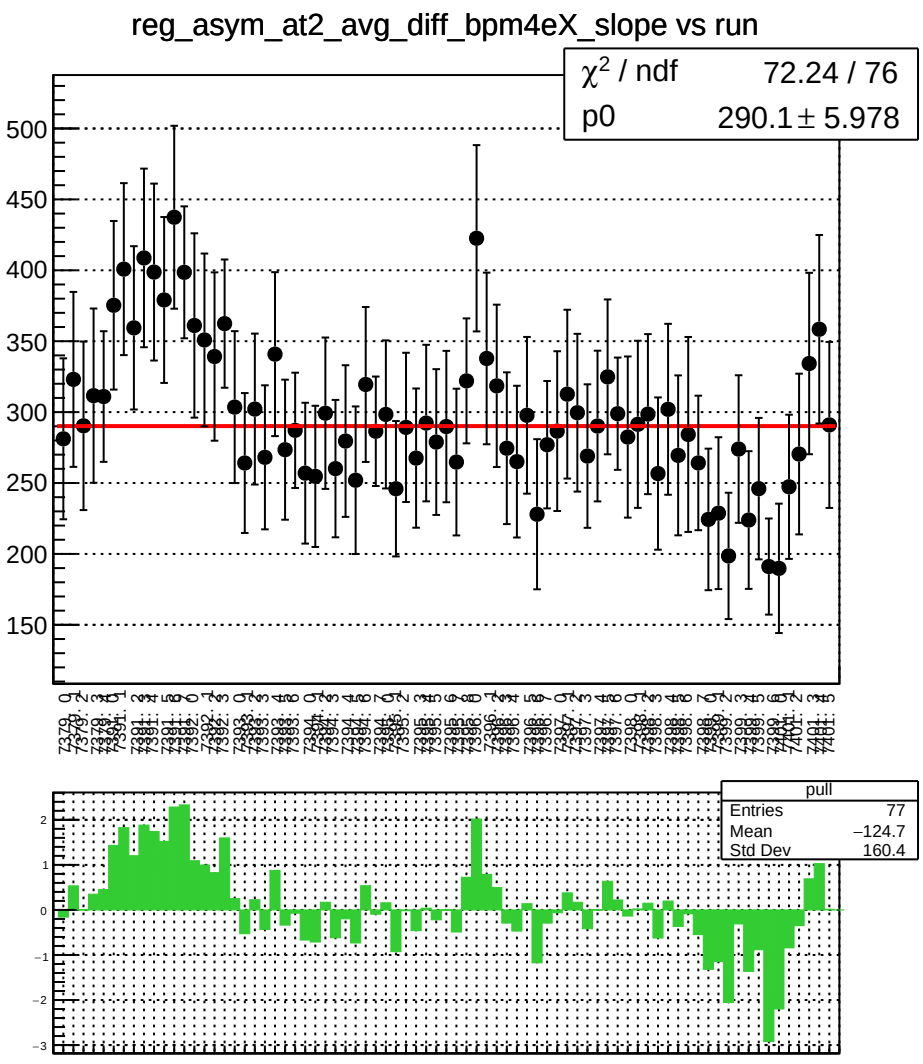

pull1D
Entries 77
Mean 1.326
Std Dev 1.169

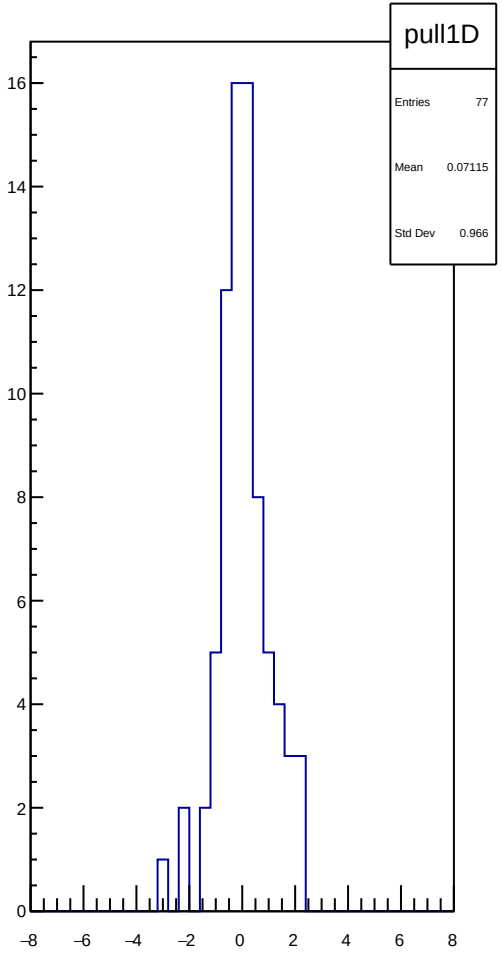

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 73.08 / 76
p0 −258.3 ± 5.761
pull
Entries 77
Mean −122.8
Std Dev 158.4

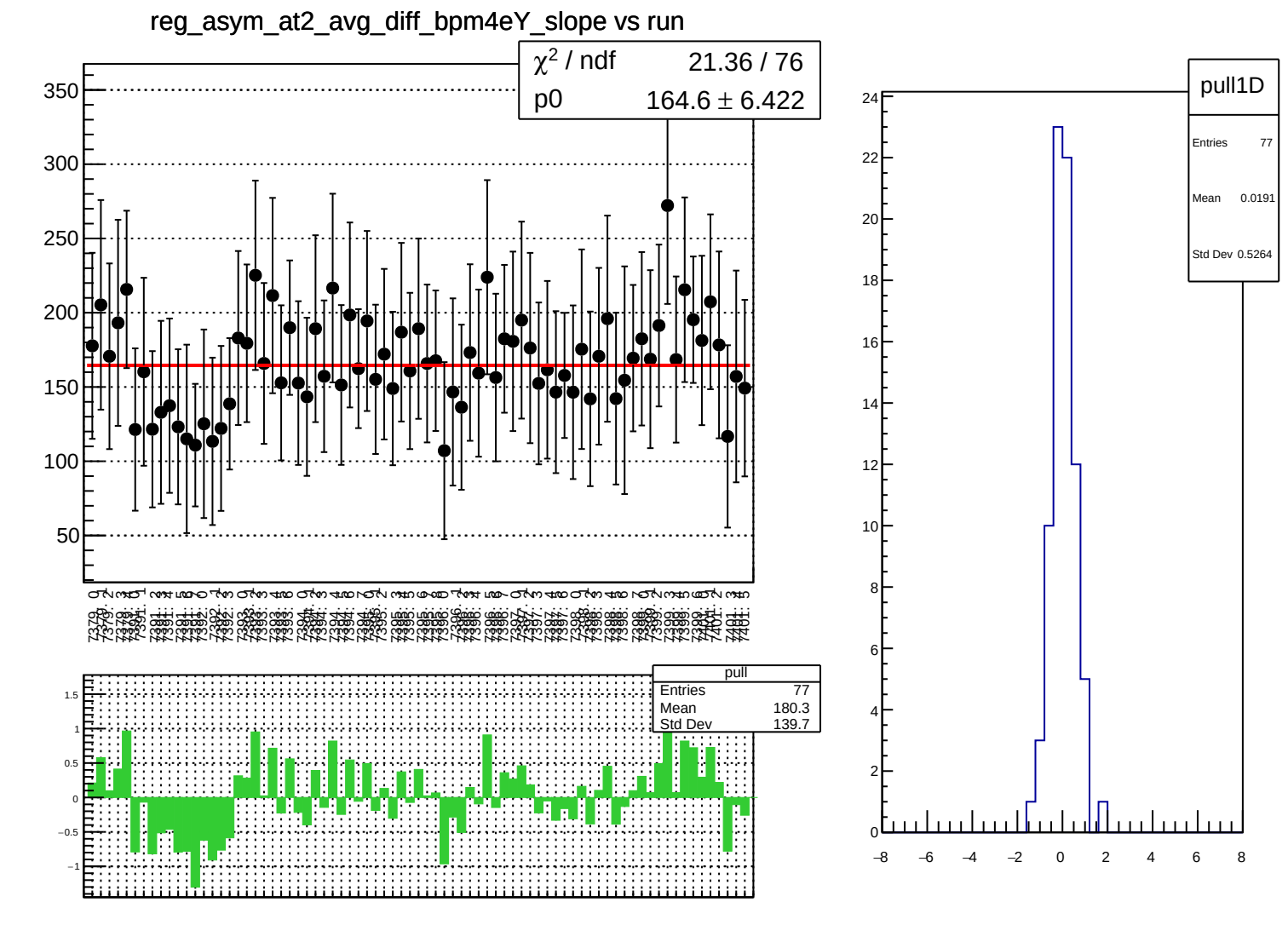

pull1D
Entries 77
Mean −0.07077
Std Dev 0.9716

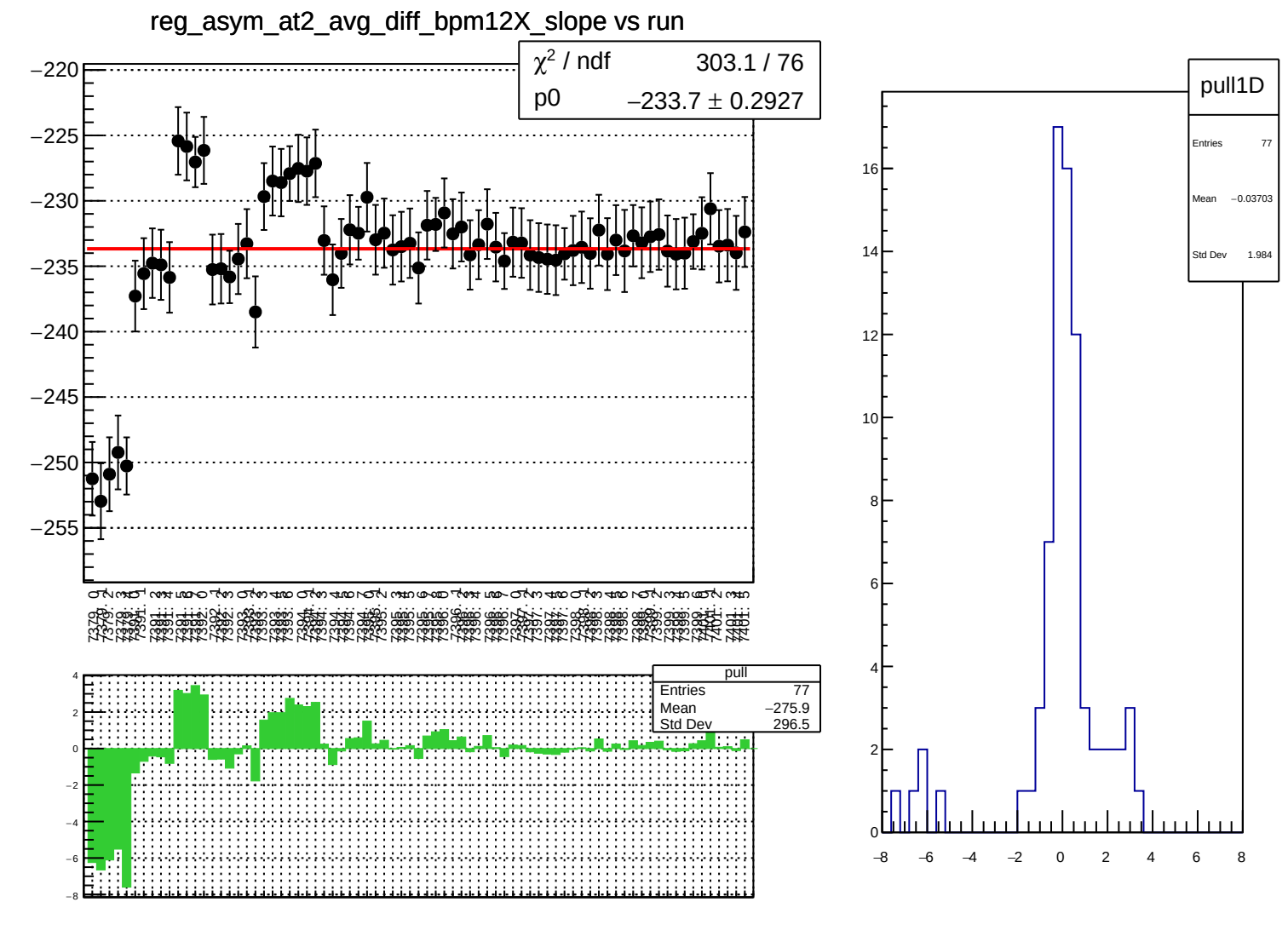

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.05 / 76
p0 −53.91 ± 6.022
pull
Entries 77
Mean 172.4
Std Dev 133.8

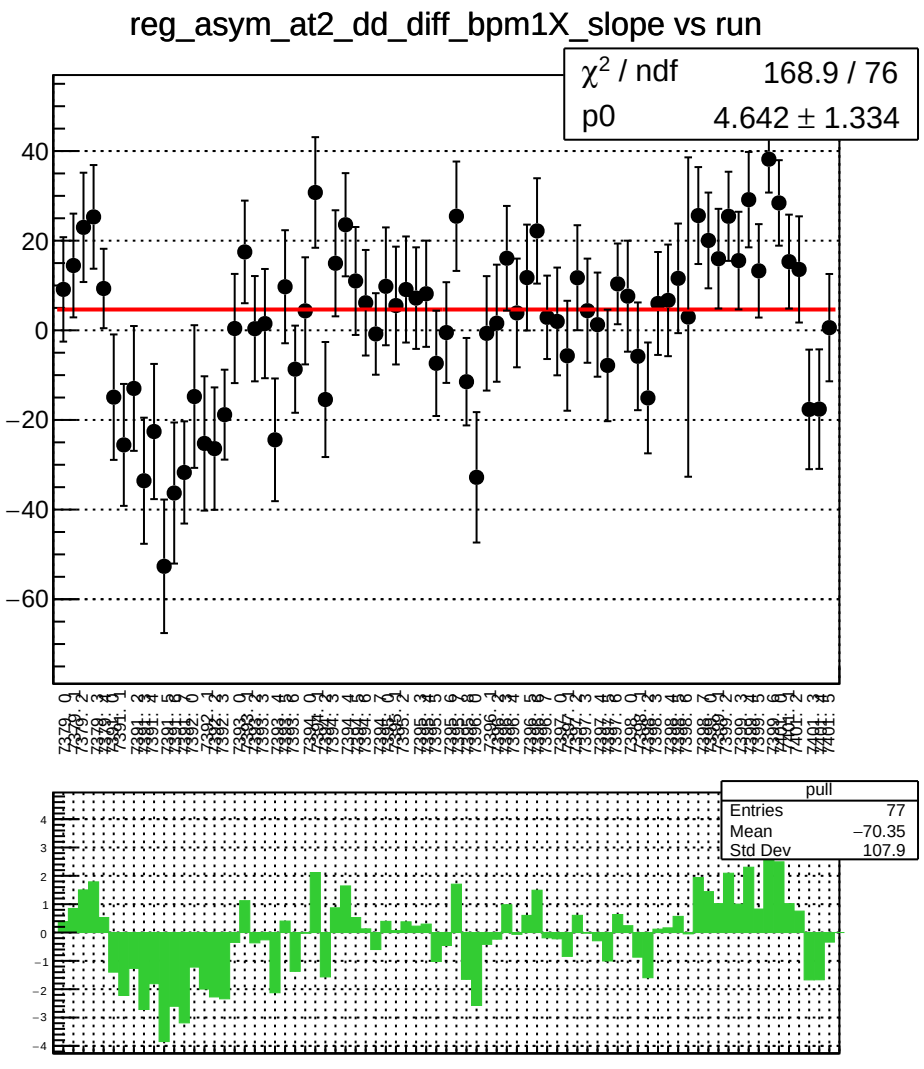

pull1D
Entries 77
Mean −0.0286
Std Dev 0.581

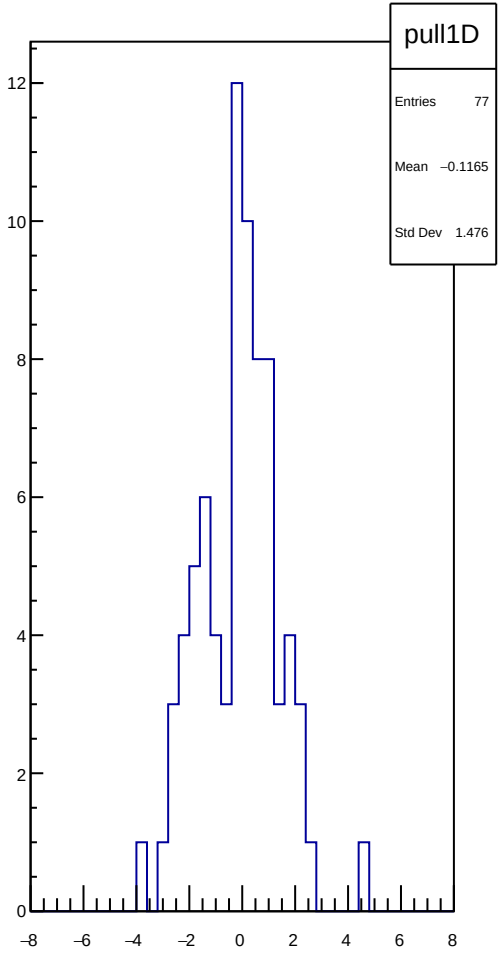

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.24 / 76
p0 290.1 ± 5.978
pull
Entries 77
Mean −124.7
Std Dev 160.4

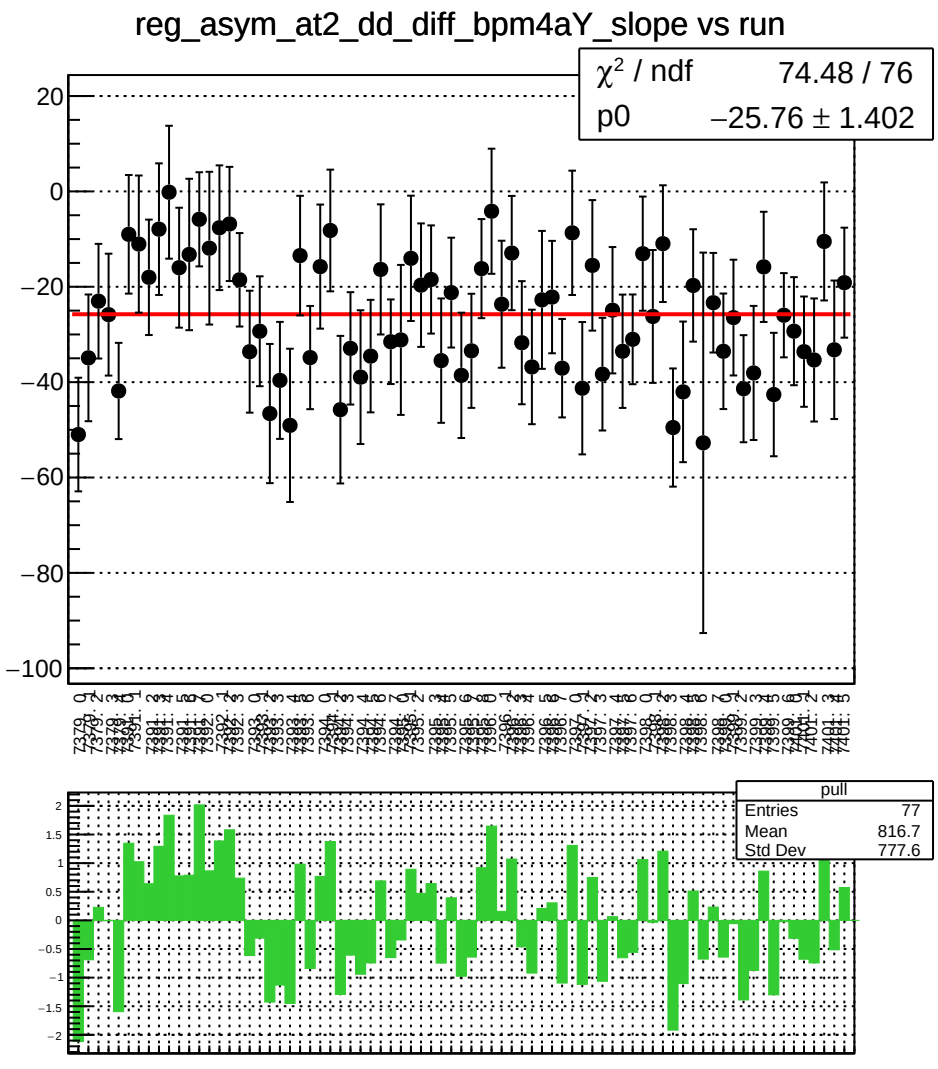

pull1D
Entries 77
Mean 0.07115
Std Dev 0.966

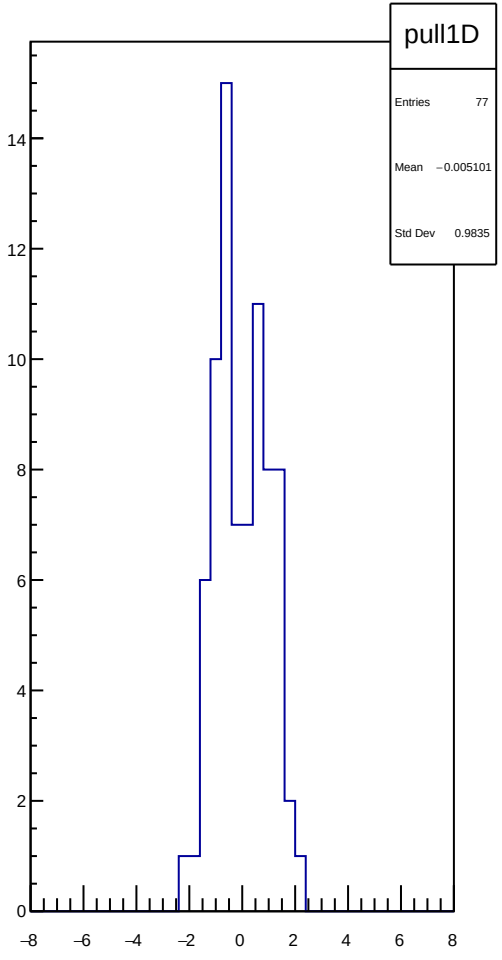

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.36 / 76
p0 164.6 ± 6.422
pull
Entries 77
Mean 180.3
Std Dev 139.7
pull1D
Entries 77
Mean 0.0191
Std Dev 0.5264

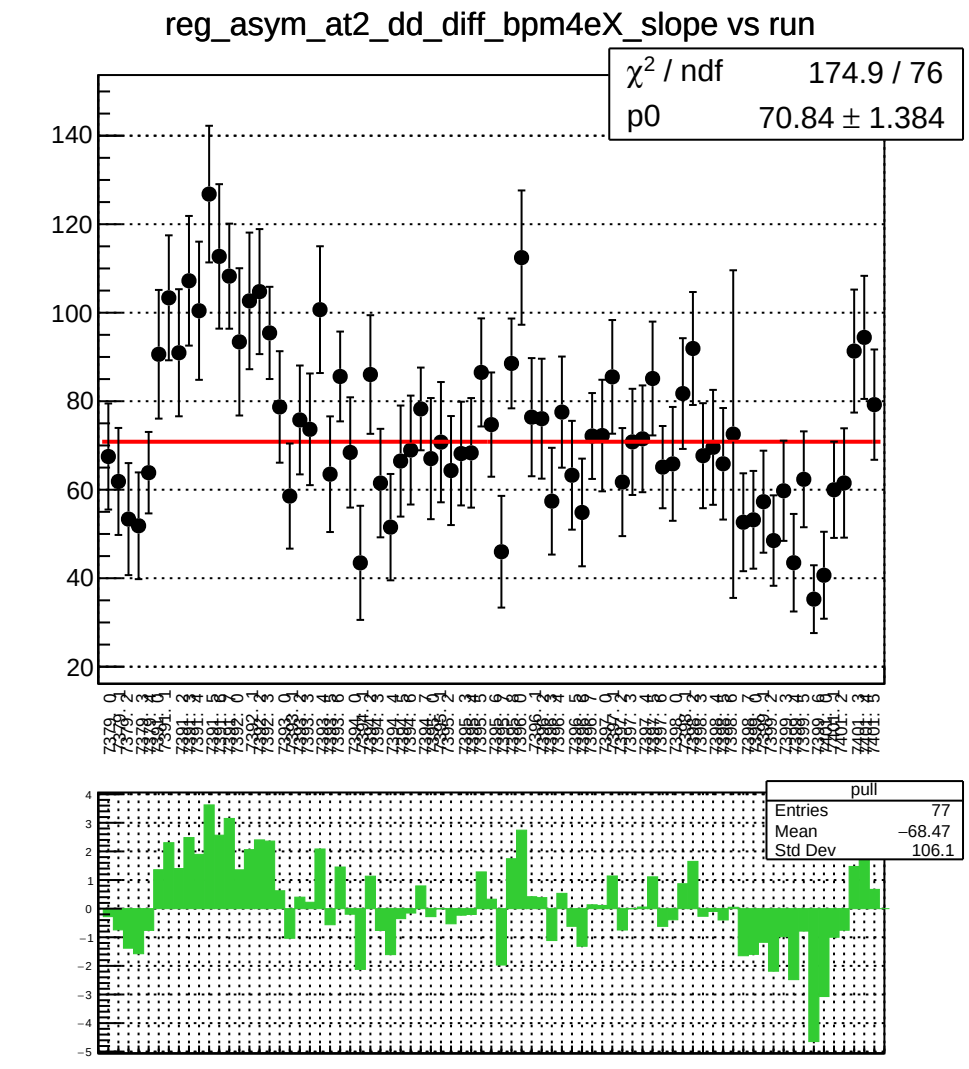

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 303.1 / 76
p0 −233.7 ± 0.2927
pull
Entries 77
Mean −275.9
Std Dev 296.5
pull1D
Entries 77
Mean −0.03703
Std Dev 1.984

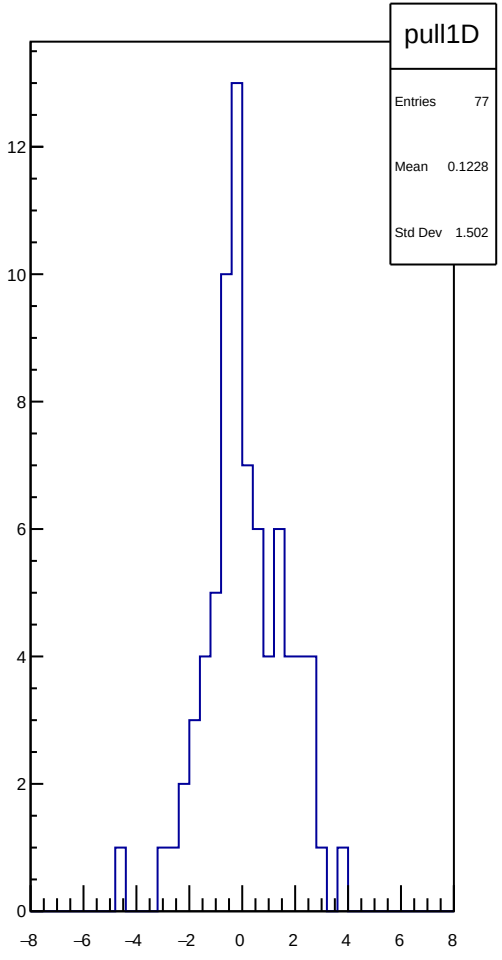

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 168.9 / 76
p0 4.642 ± 1.334
pull
Entries 77
Mean −70.35
Std Dev 107.9

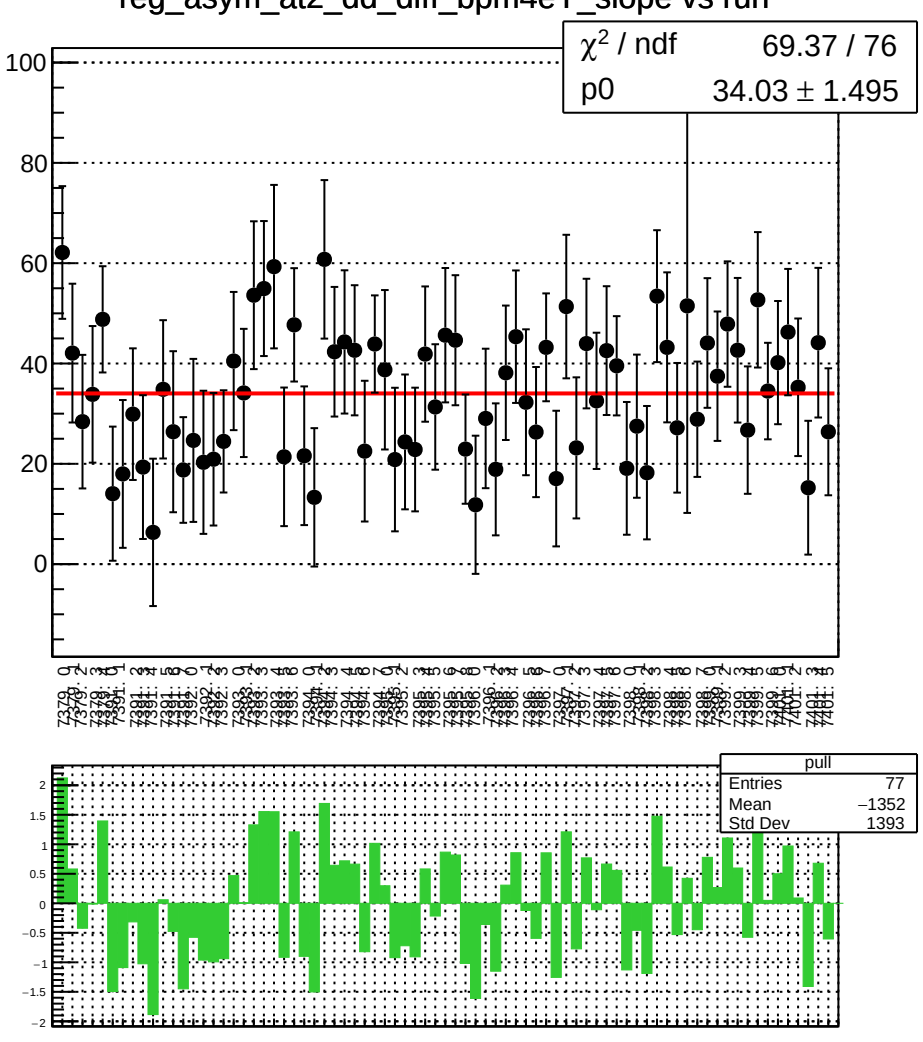

pull1D
Entries 77
Mean −0.1165
Std Dev 1.476

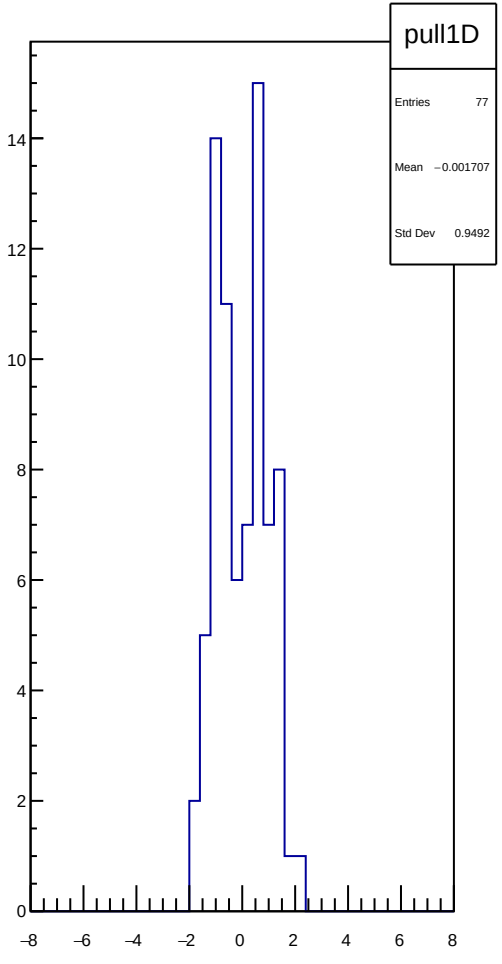

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 74.48 / 76
p0 −25.76 ± 1.402
pull
Entries 77
Mean 816.7
Std Dev 777.6

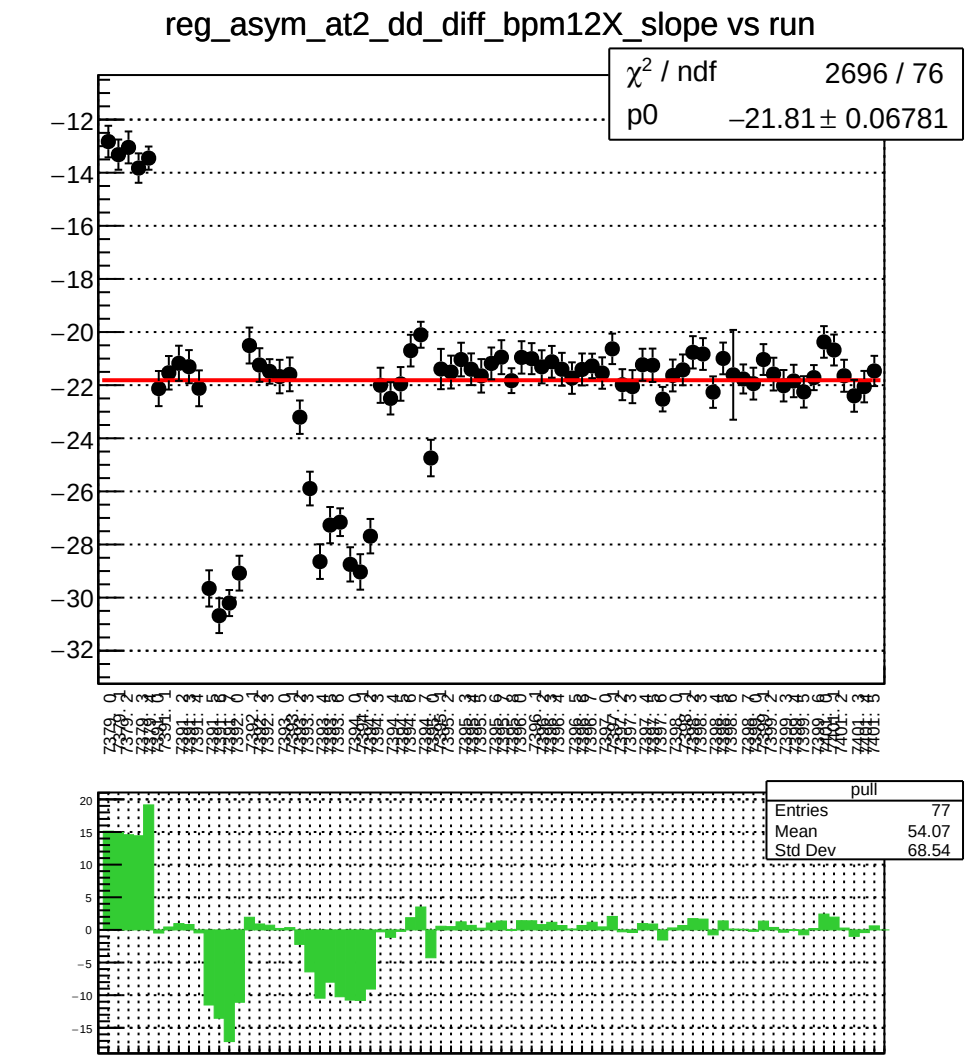

pull1D
Entries 77
Mean −0.005101
Std Dev 0.9835

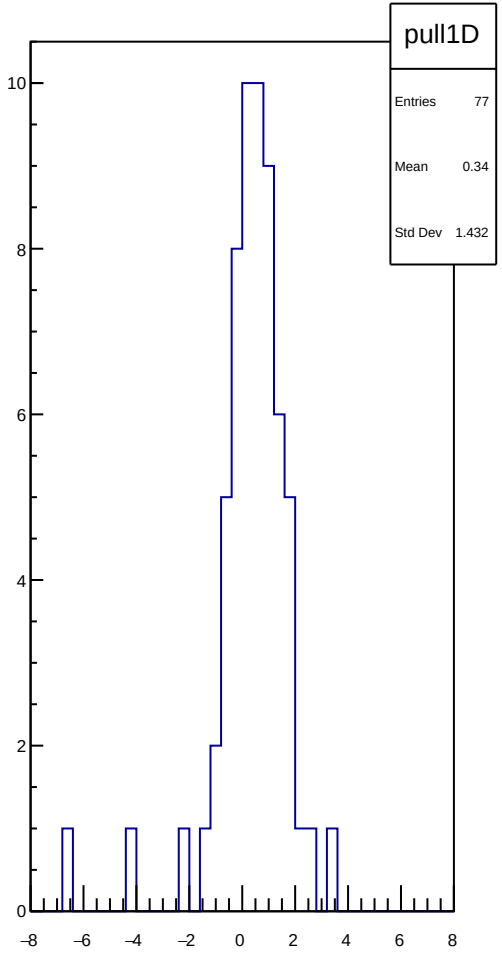

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 174.9 / 76
p0 70.84 ± 1.384
pull
Entries 77
Mean −68.47
Std Dev 106.1

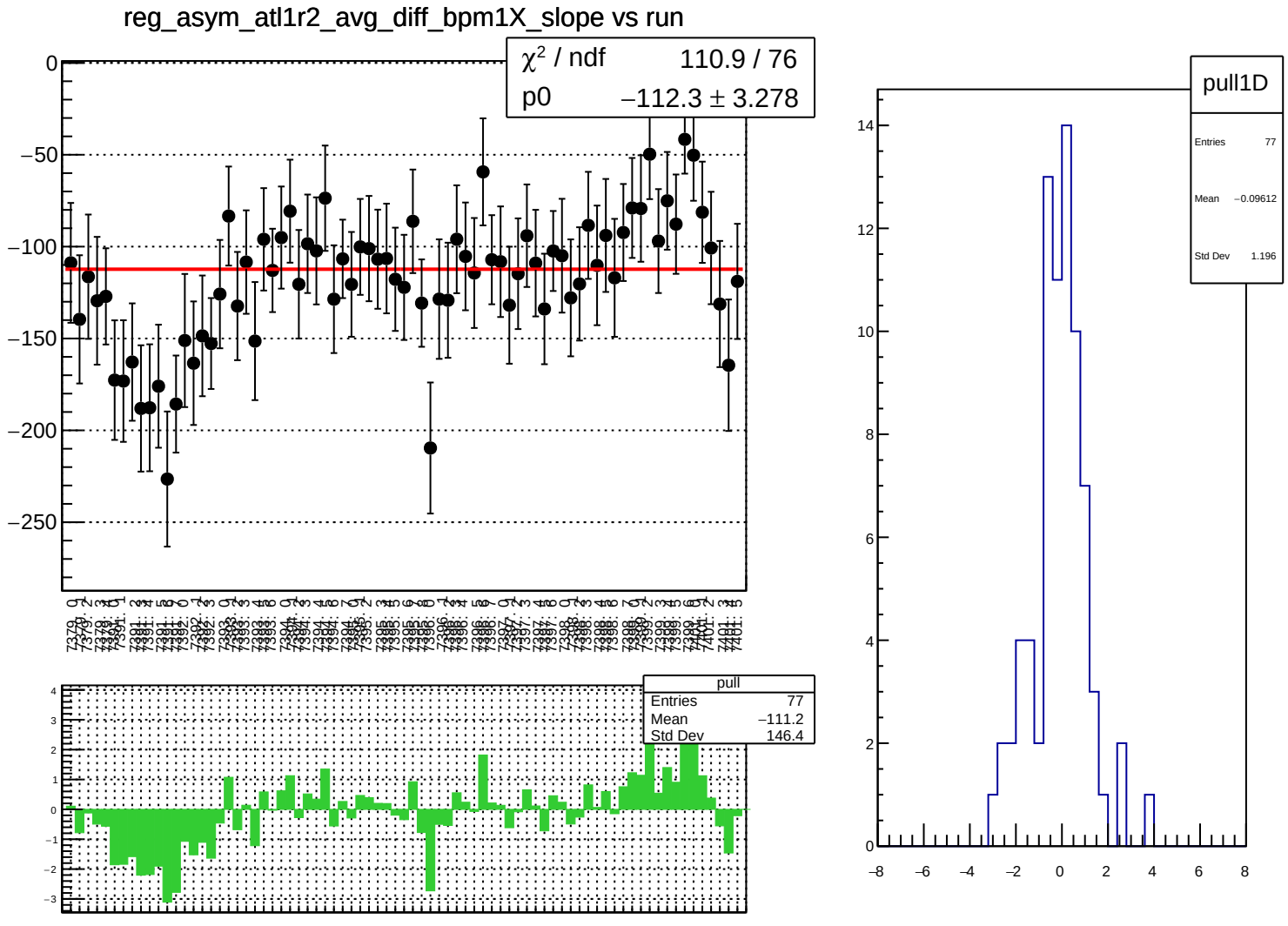

pull1D
Entries 77
Mean 0.1228
Std Dev 1.502

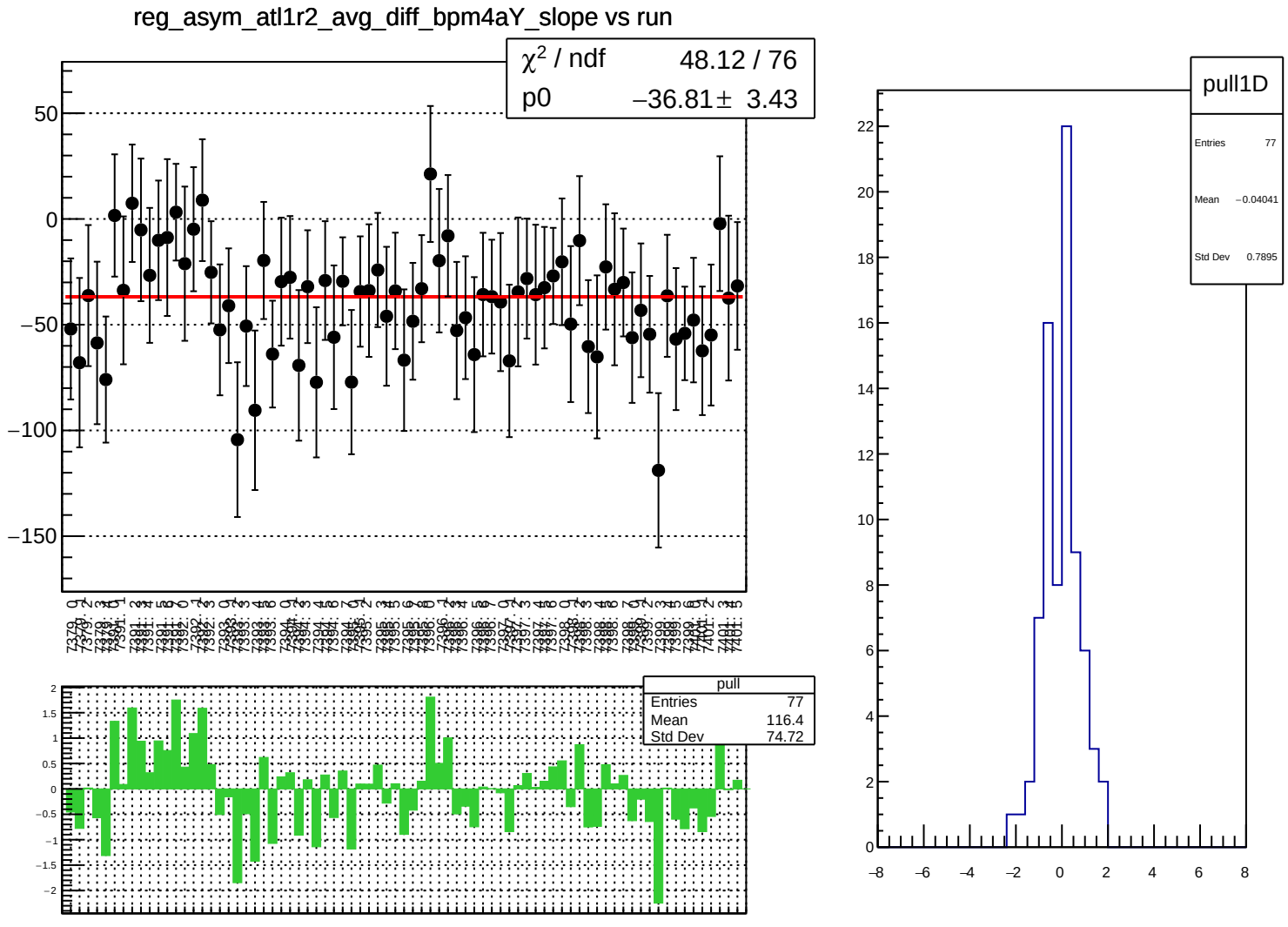

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 69.37 / 76
p0 34.03 ± 1.495
pull
Entries 77
Mean −1352
Std Dev 1393

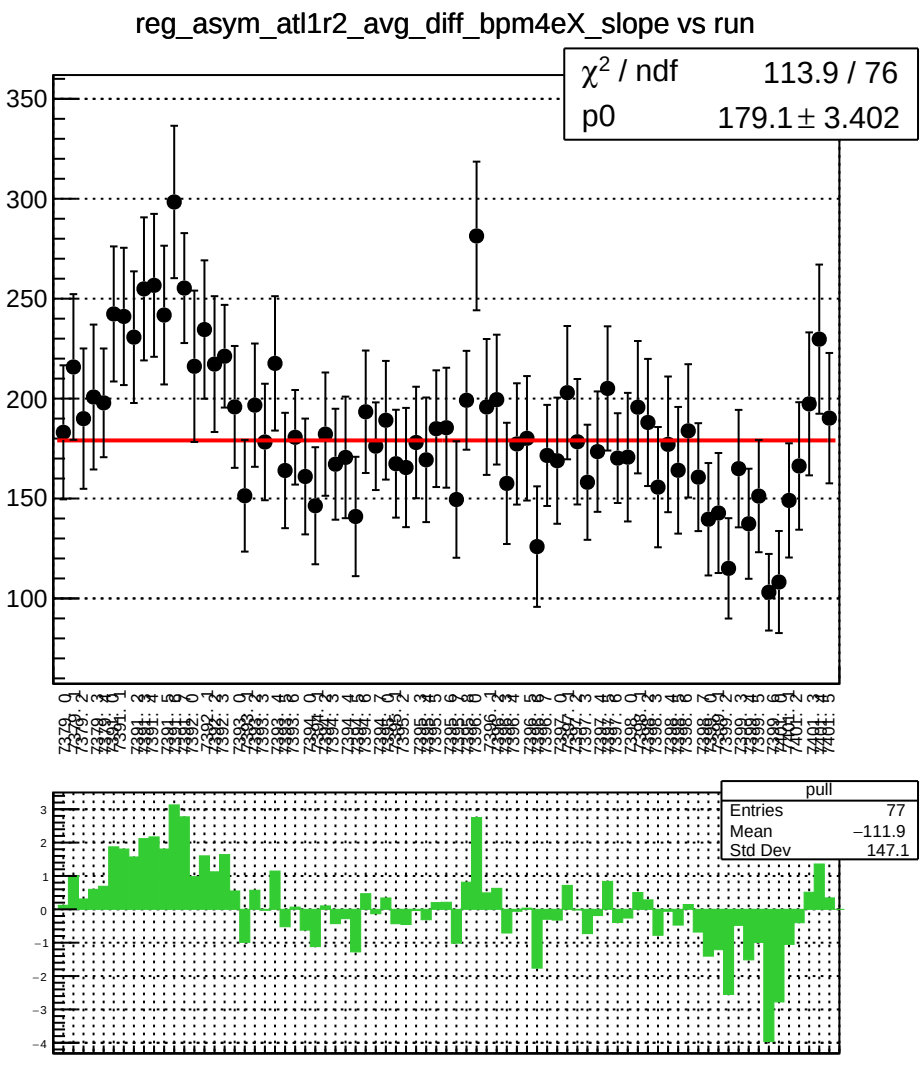

pull1D
Entries 77
Mean −0.001707
Std Dev 0.9492

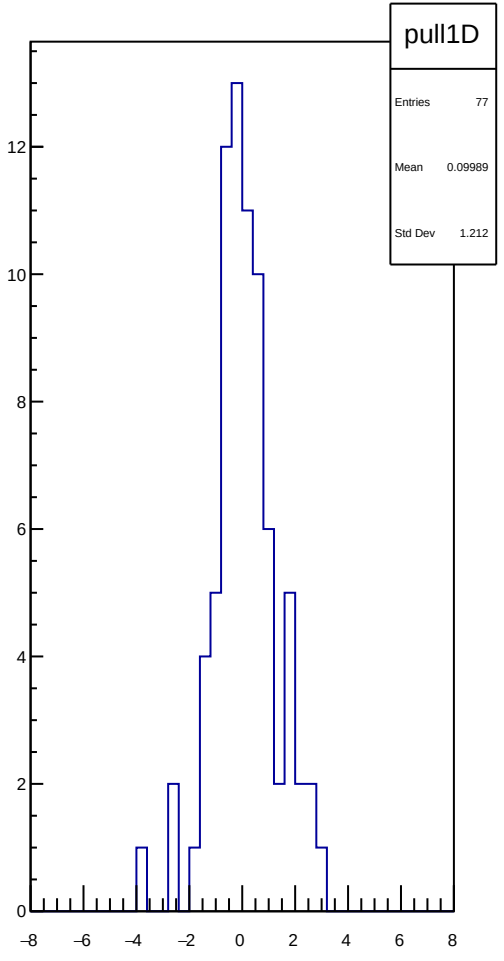

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 2696 / 76
p0 −21.81 ± 0.06781
pull
Entries 77
Mean 54.07
Std Dev 68.54

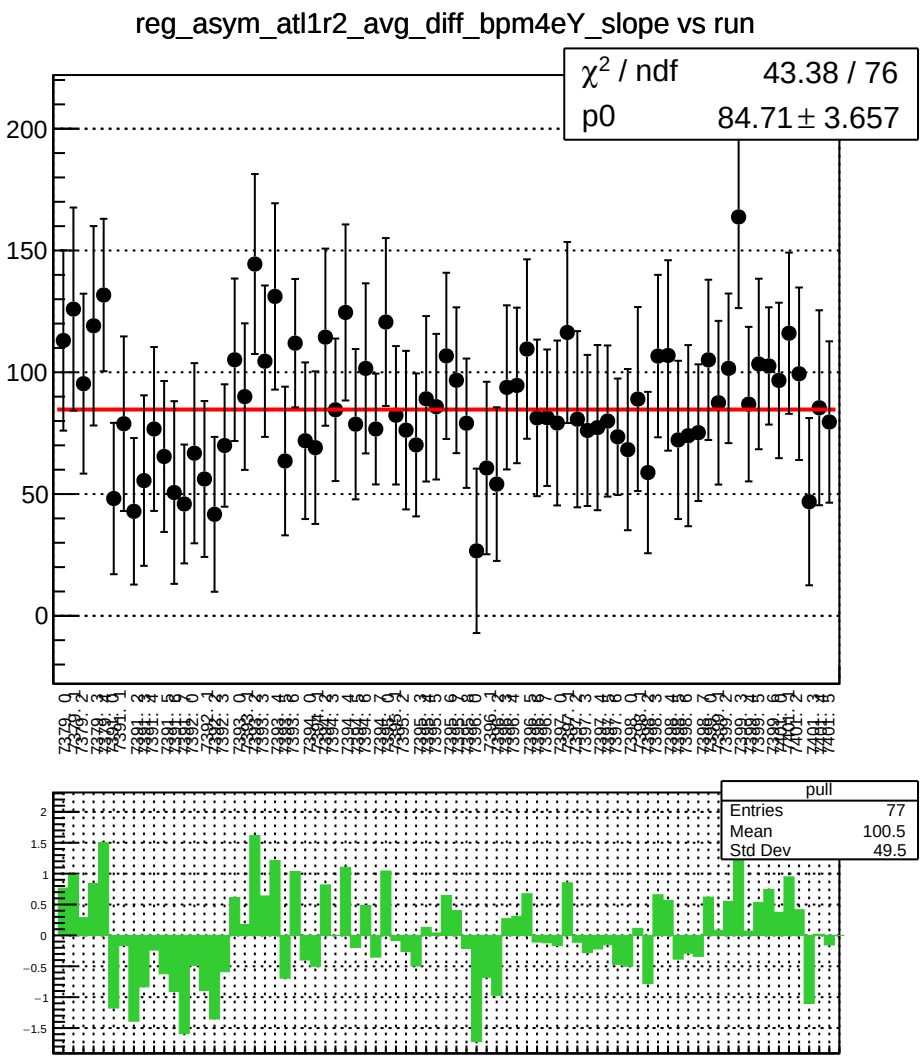

pull1D
Entries 77
Mean 0.34
Std Dev 1.432

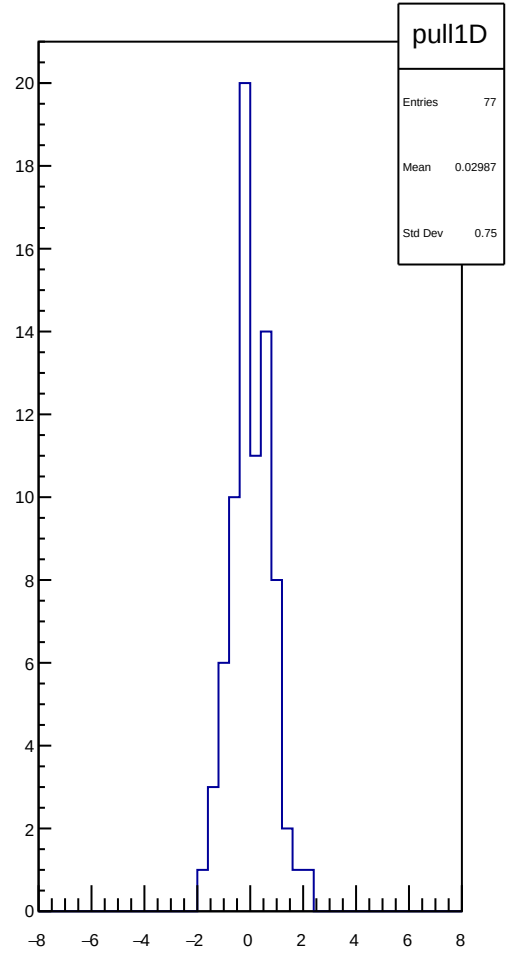

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 110.9 / 76
p0 −112.3 ± 3.278
pull
Entries 77
Mean −111.2
Std Dev 146.4
pull1D
Entries 77
Mean −0.09612
Std Dev 1.196

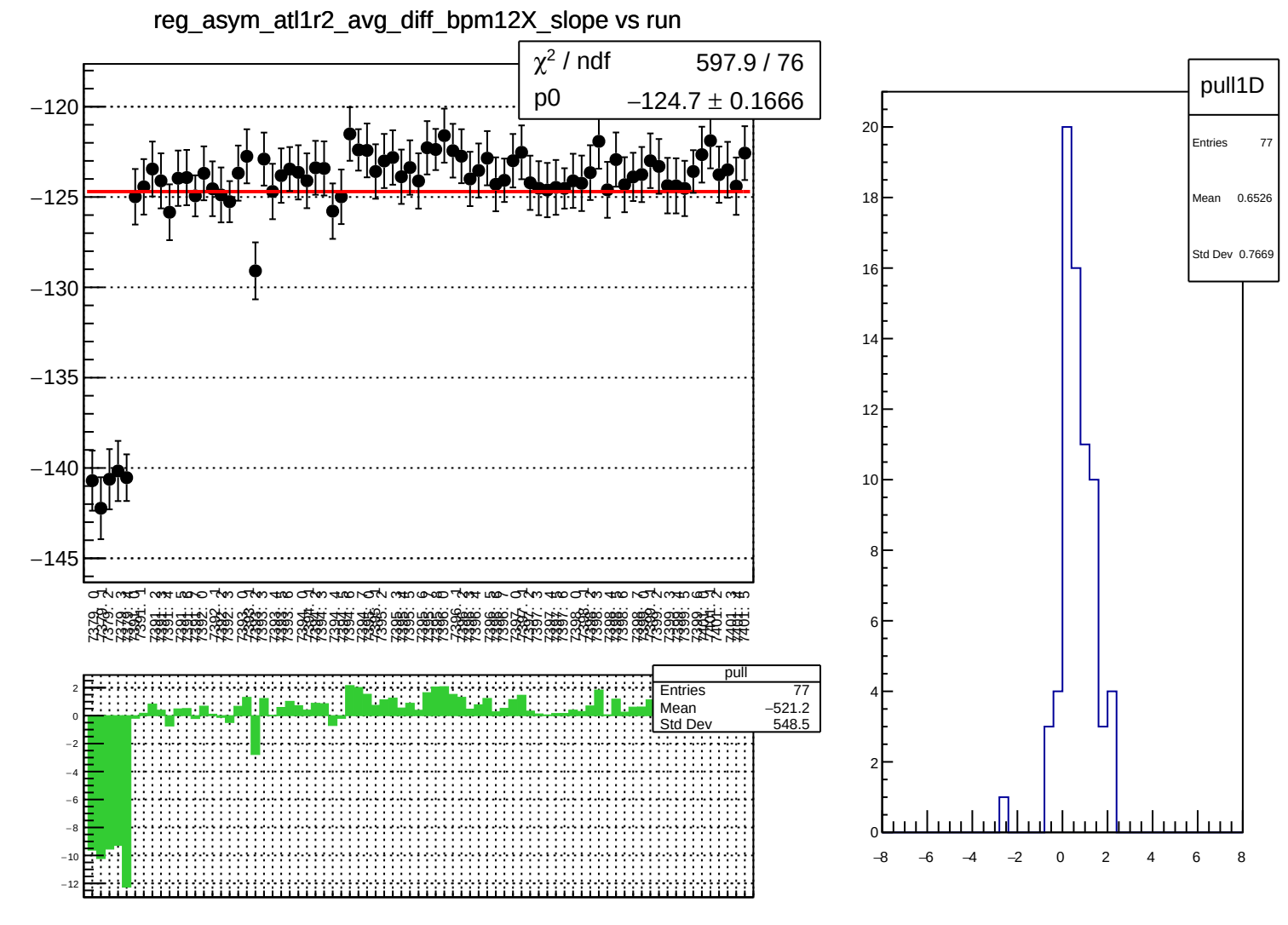

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.12 / 76
p0 −36.81 ± 3.43
50
0
−50
−100
−150
pull
Entries 77
Mean 116.4
Std Dev 74.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 77
Mean −0.04041
Std Dev 0.7895
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

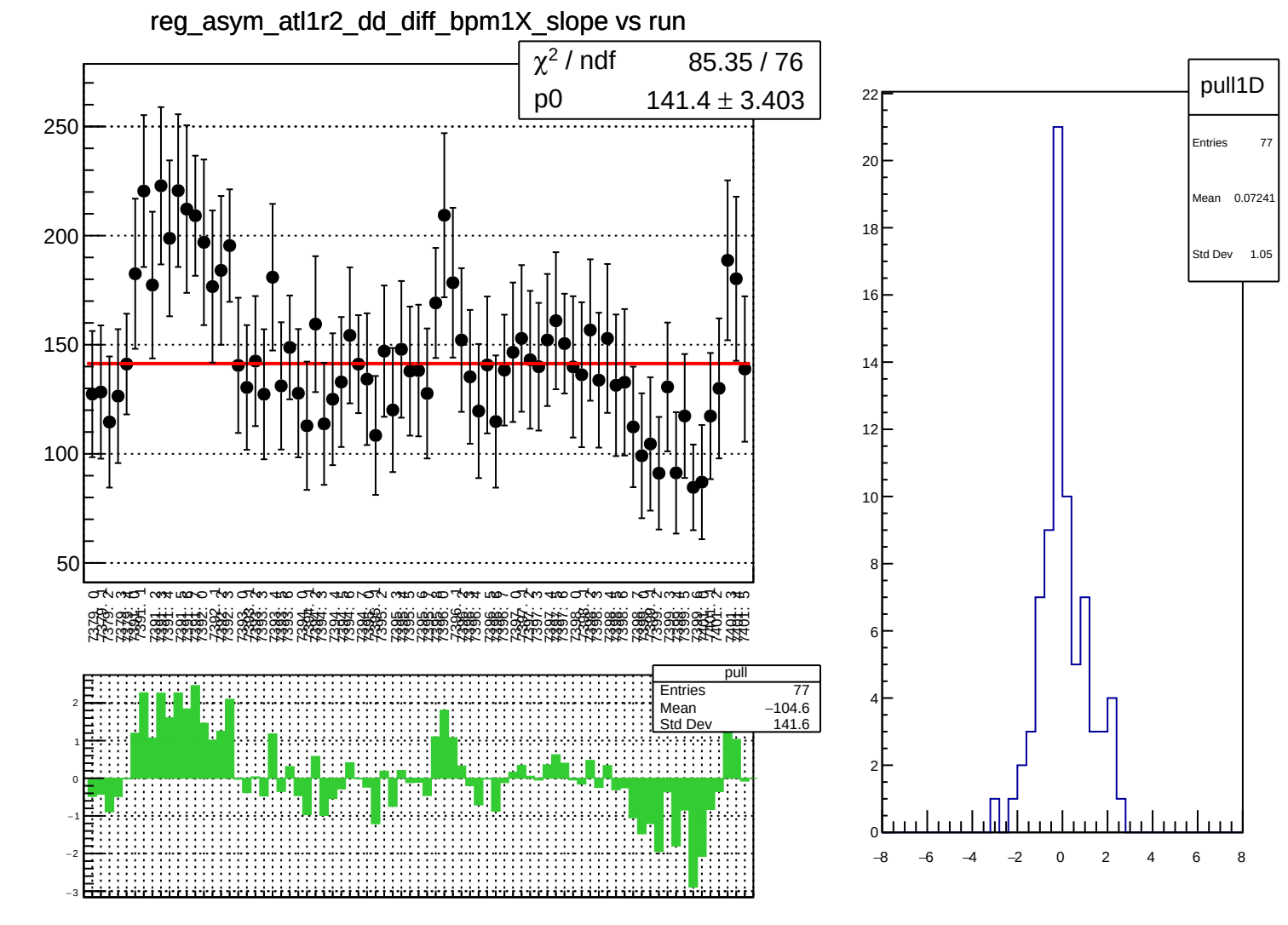

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 113.9 / 76
p0 179.1 ± 3.402
pull
Entries 77
Mean −111.9
Std Dev 147.1

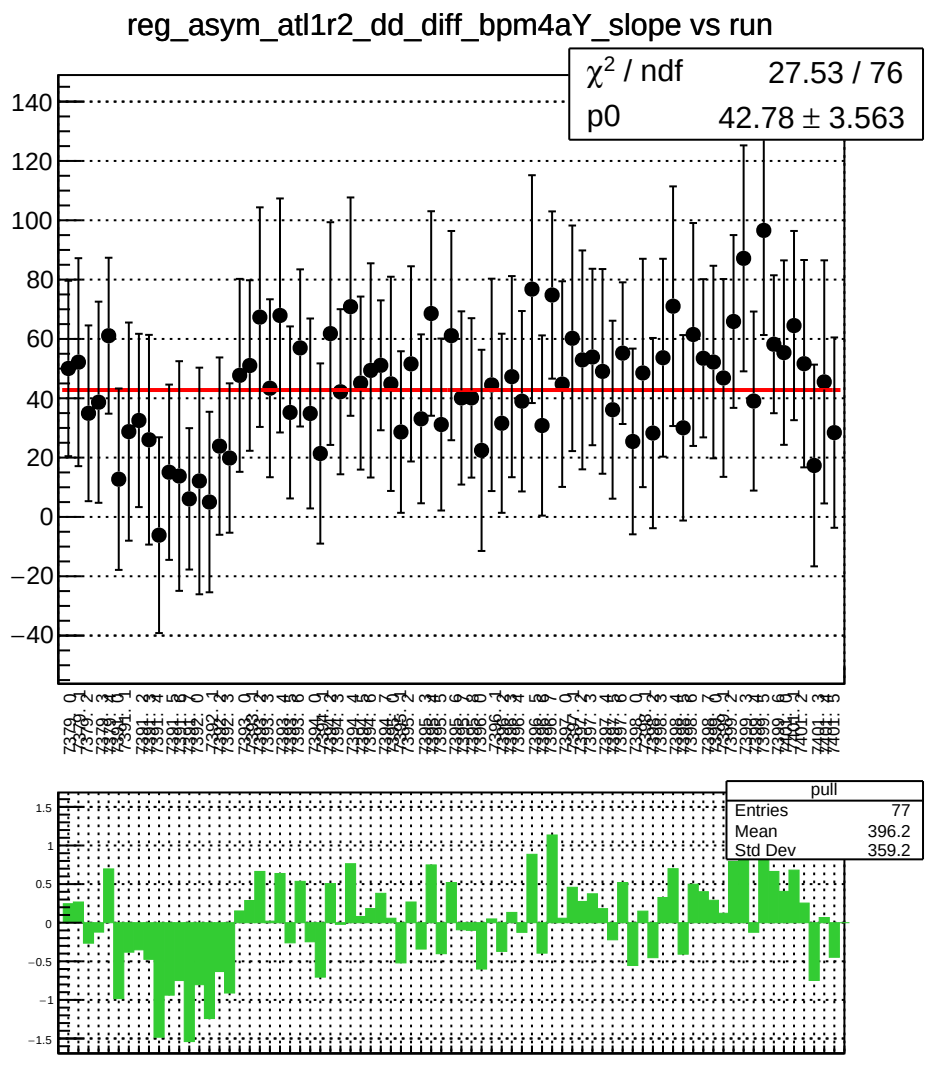

pull1D
Entries 77
Mean 0.09989
Std Dev 1.212

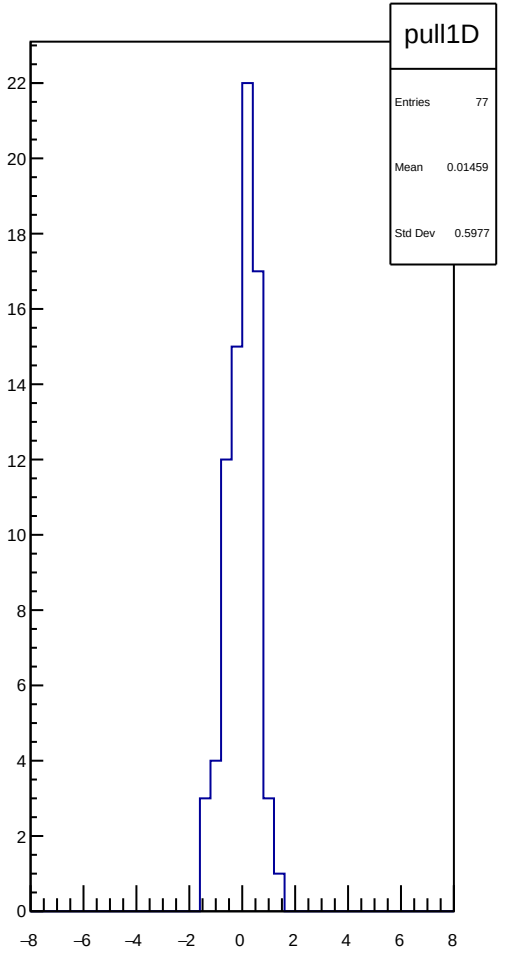

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.38 / 76
p0 84.71 ± 3.657
200
150
100
50
0
pull
Entries 77
Mean 100.5
Std Dev 49.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

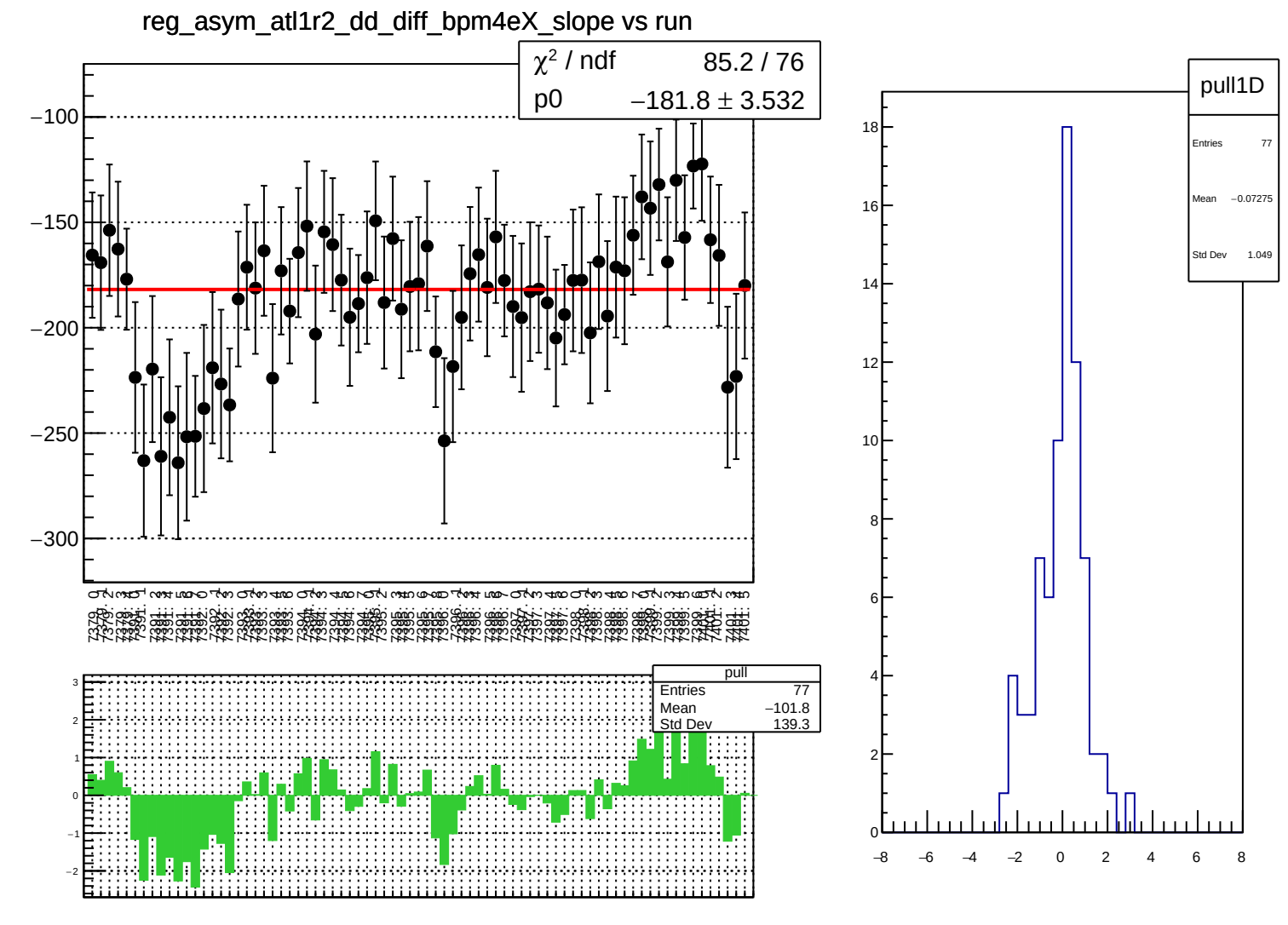

pull1D
Entries 77
Mean 0.02987
Std Dev 0.75
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

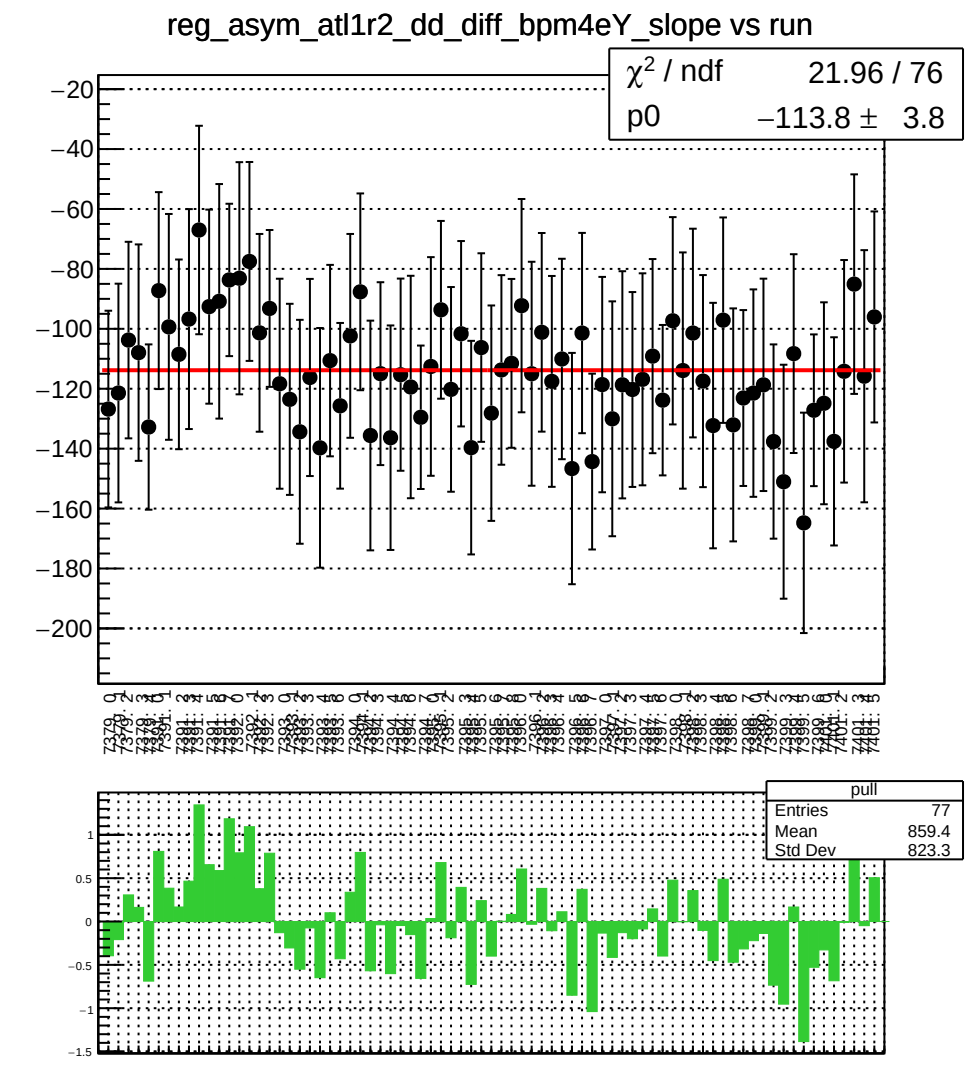

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 597.9 / 76
p0 −124.7 ± 0.1666
pull
Entries 77
Mean −521.2
Std Dev 548.5
pull1D
Entries 77
Mean 0.6526
Std Dev 0.7669

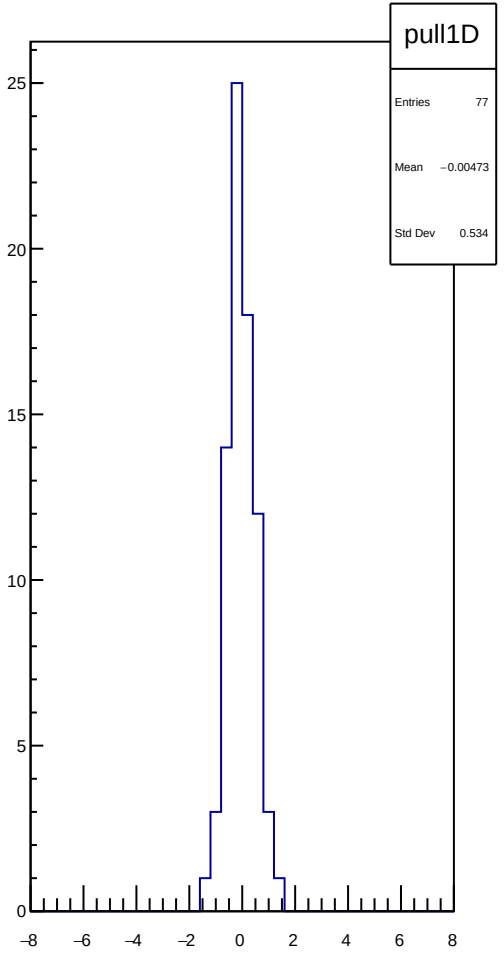

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 85.35 / 76
p0 141.4 ± 3.403
250
200
150
100
50
pull
Entries 77
Mean −104.6
Std Dev 141.6
2
1
0
−1
−2
−3
pull1D
Entries 77
Mean 0.07241
Std Dev 1.05
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

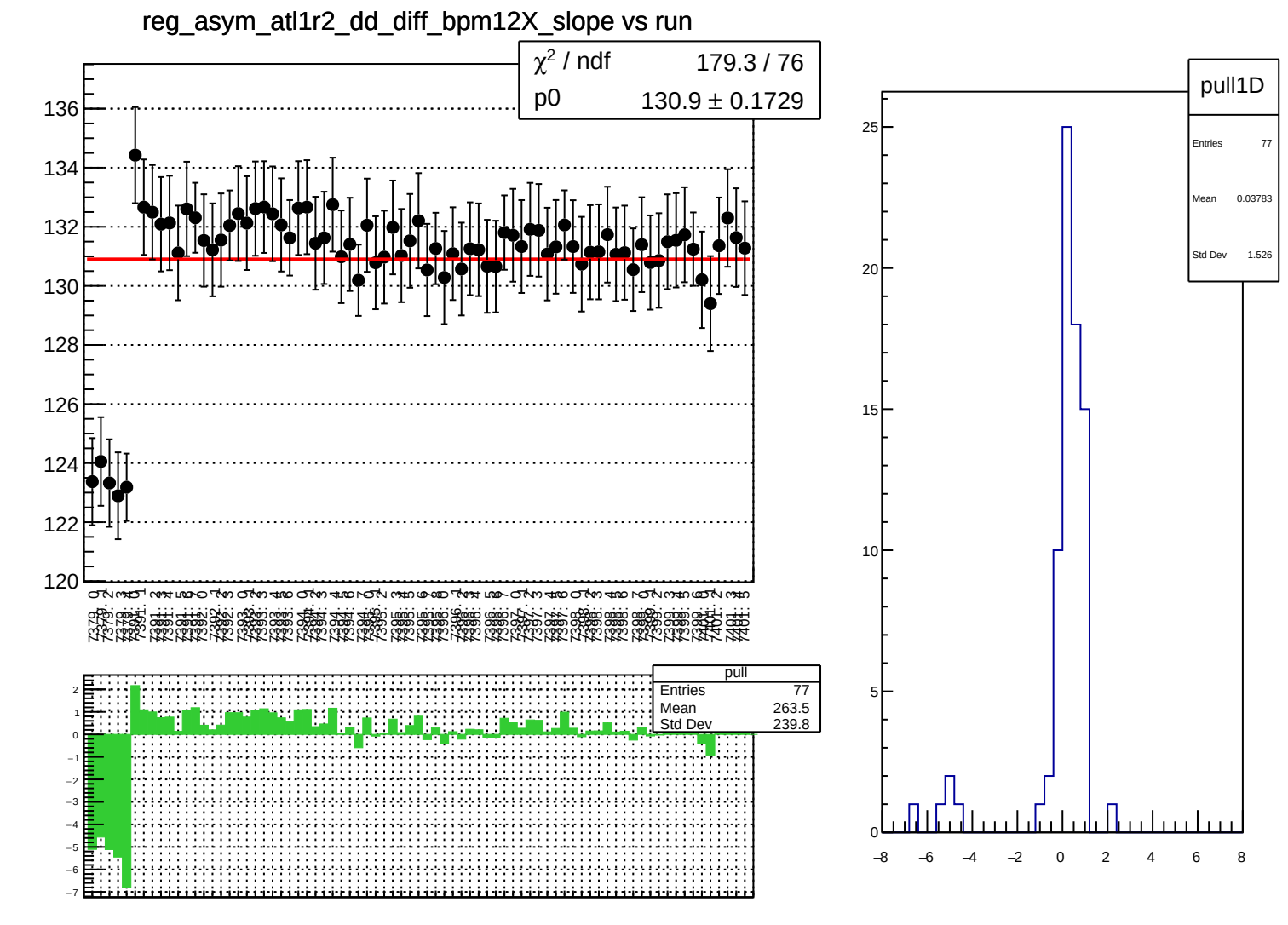

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.53 / 76
p0 42.78 ± 3.563
pull
Entries 77
Mean 396.2
Std Dev 359.2

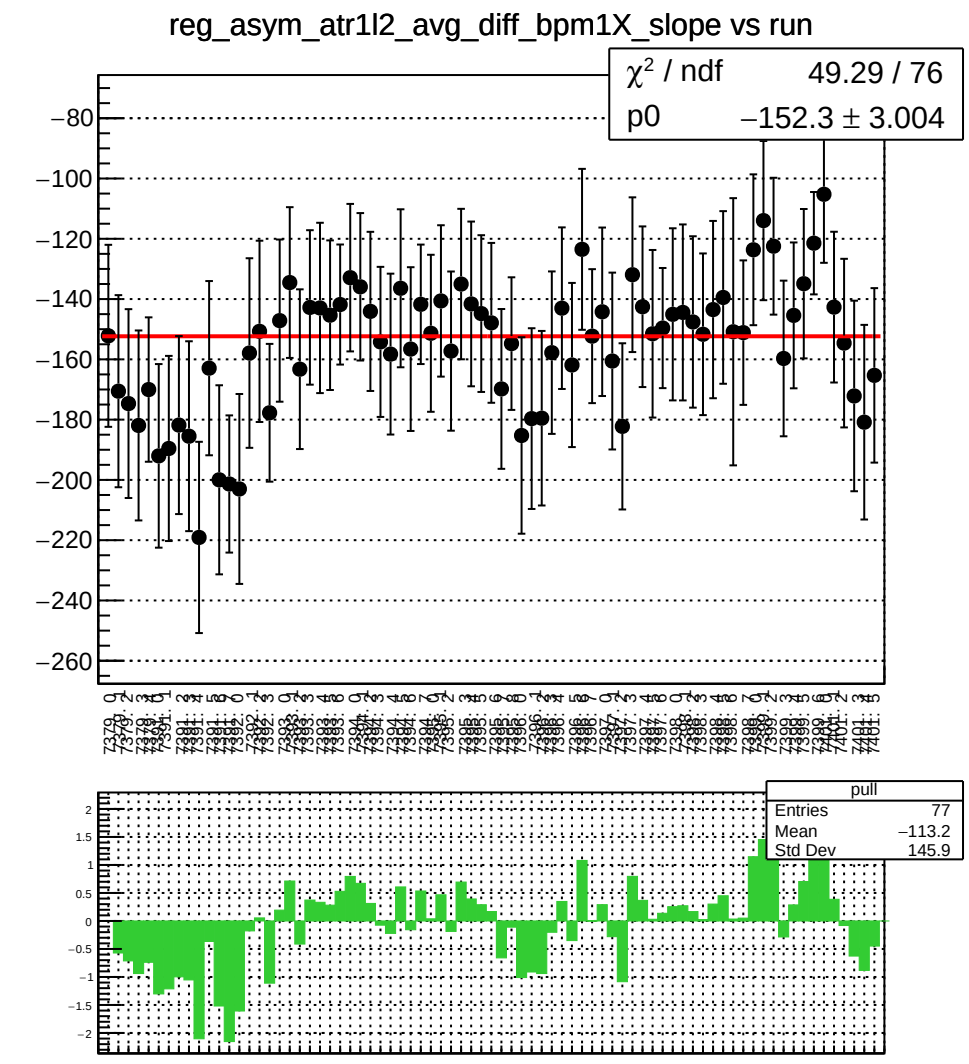

pull1D
Entries 77
Mean 0.01459
Std Dev 0.5977

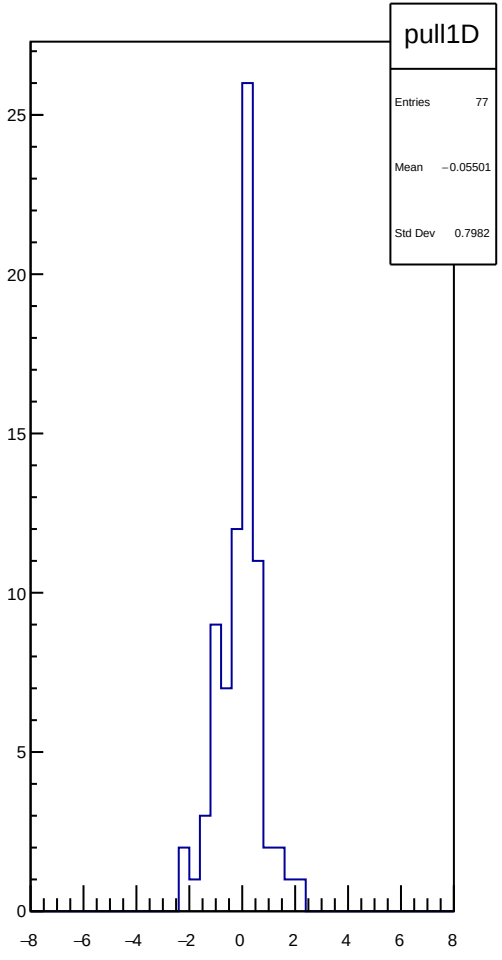

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.2 / 76
p0 −181.8 ± 3.532
pull
Entries 77
Mean −101.8
Std Dev 139.3
pull1D
Entries 77
Mean −0.07275
Std Dev 1.049

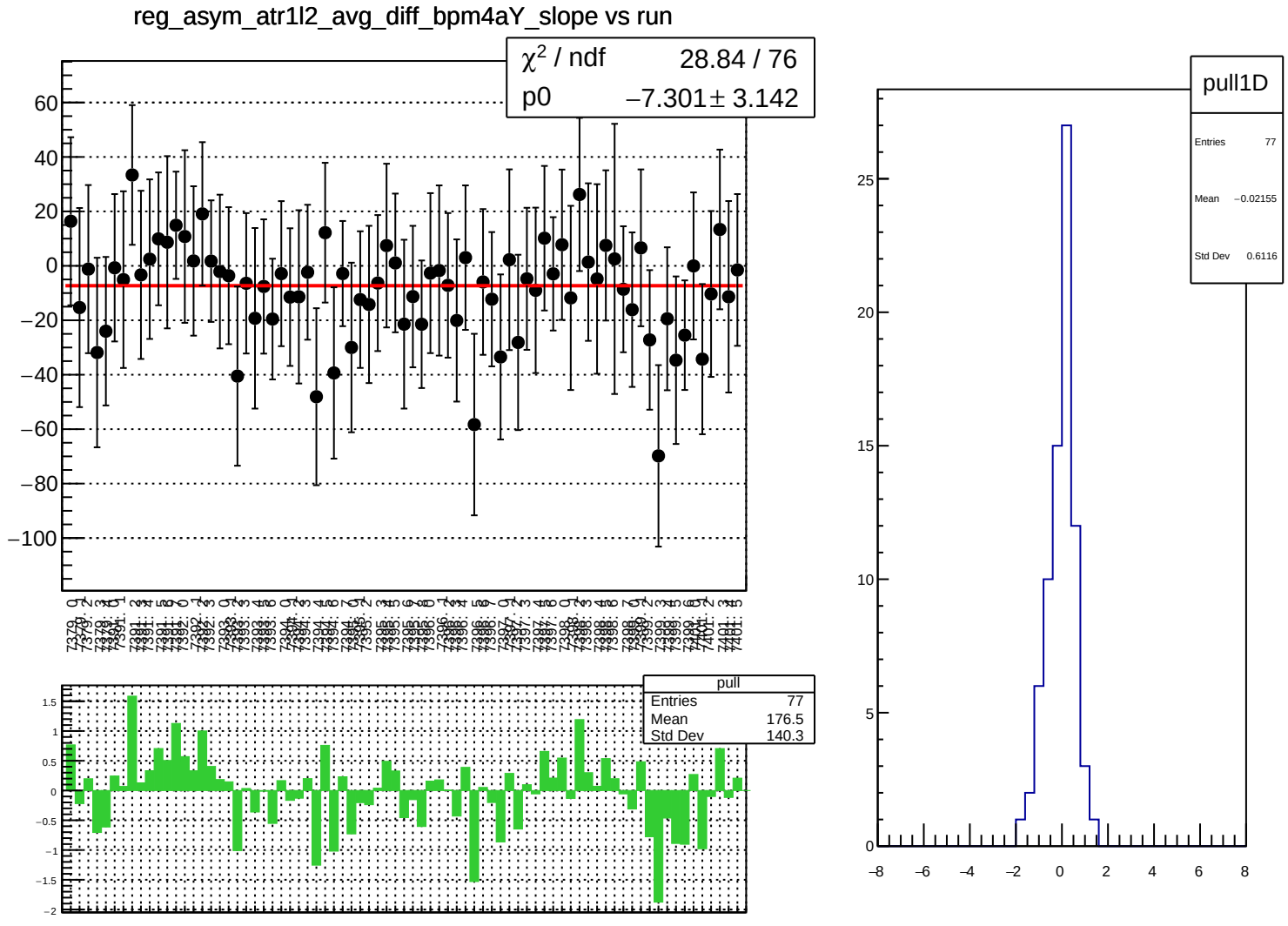

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.96 / 76
p0 −113.8 ± 3.8
pull
Entries 77
Mean 859.4
Std Dev 823.3

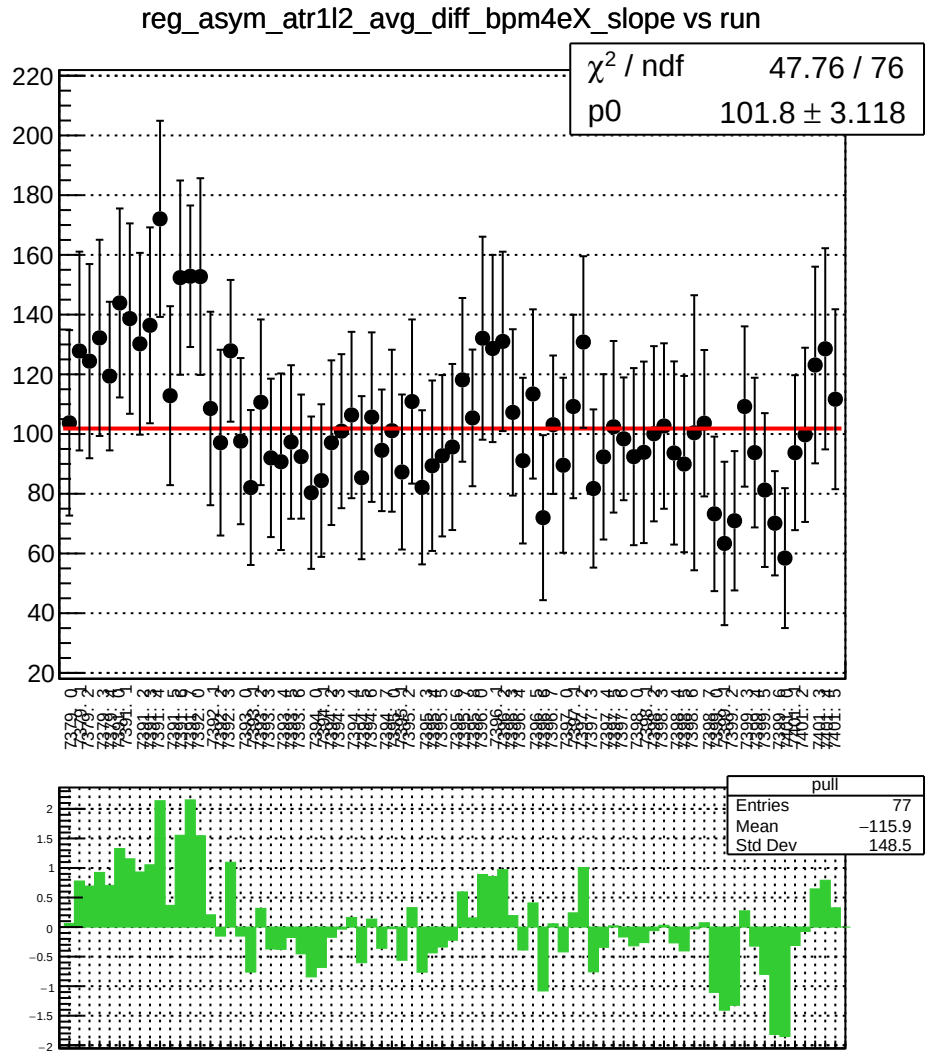

pull1D
Entries 77
Mean −0.00473
Std Dev 0.534

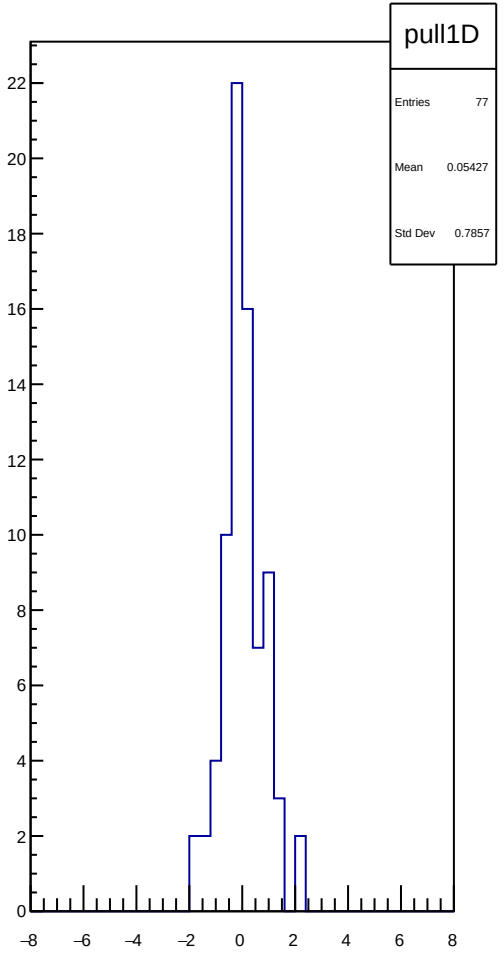

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 179.3 / 76
p0 130.9 ± 0.1729
pull
Entries 77
Mean 263.5
Std Dev 239.8
pull1D
Entries 77
Mean 0.03783
Std Dev 1.526

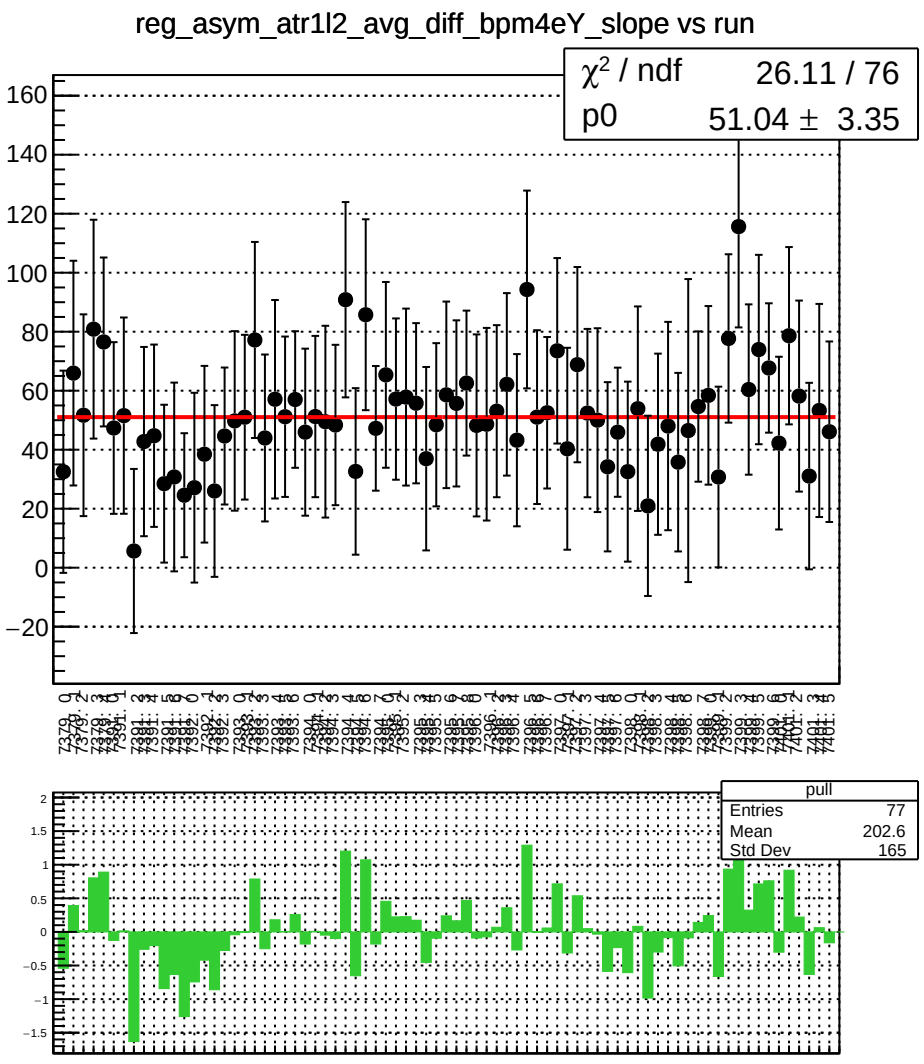

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 49.29 / 76
p0 −152.3 ± 3.004
pull
Entries 77
Mean −113.2
Std Dev 145.9

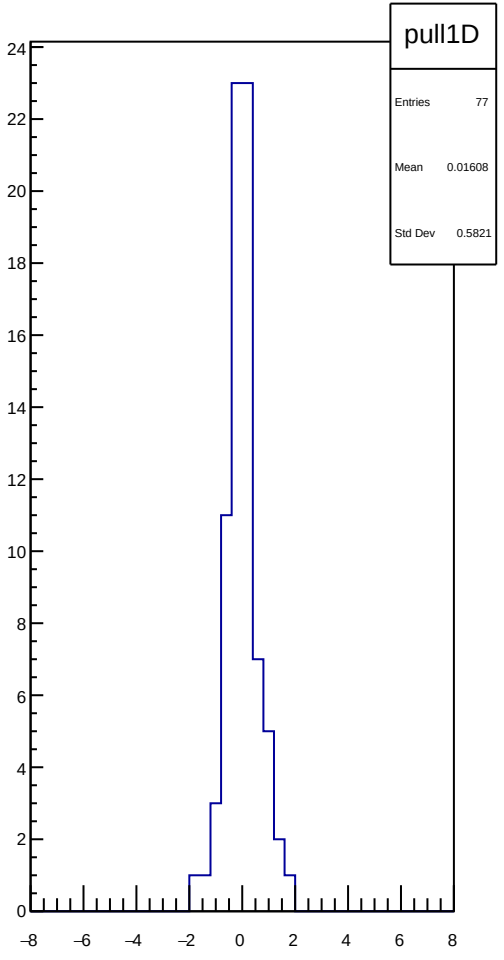

pull1D
Entries 77
Mean −0.05501
Std Dev 0.7982

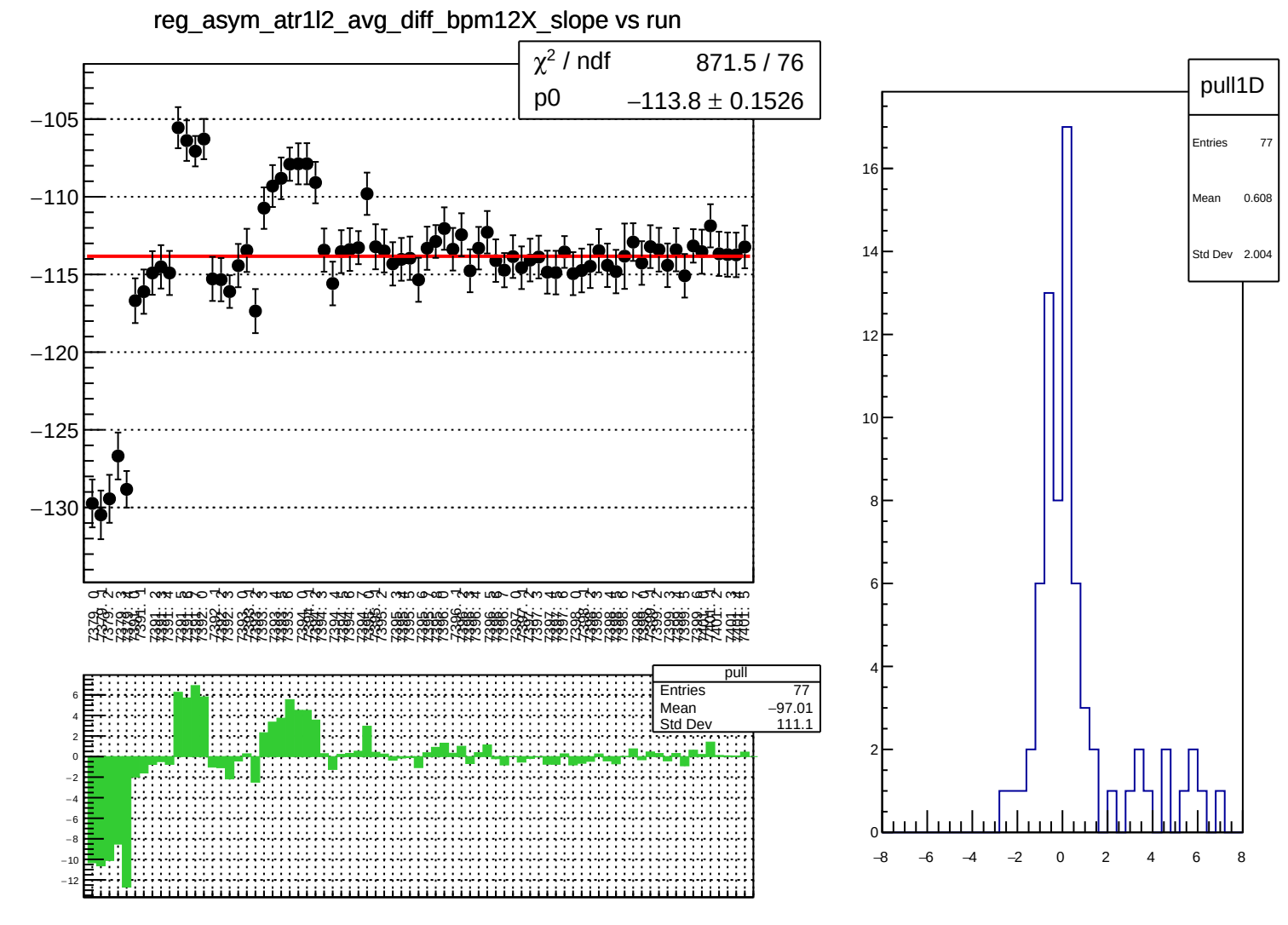

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.84 / 76
p0 −7.301 ± 3.142
pull
Entries 77
Mean 176.5
Std Dev 140.3
pull1D
Entries 77
Mean −0.02155
Std Dev 0.6116

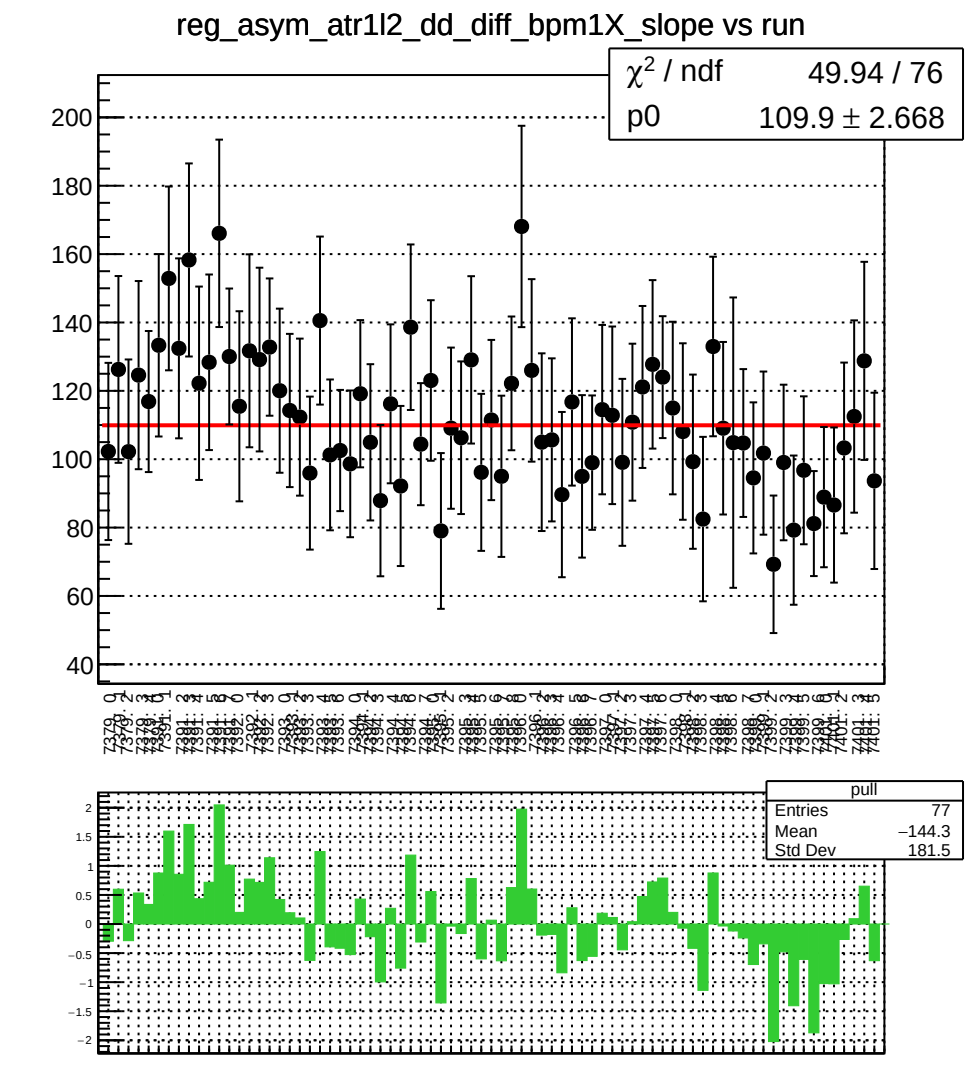

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.76 / 76
p0 101.8 ± 3.118
pull
Entries 77
Mean −115.9
Std Dev 148.5

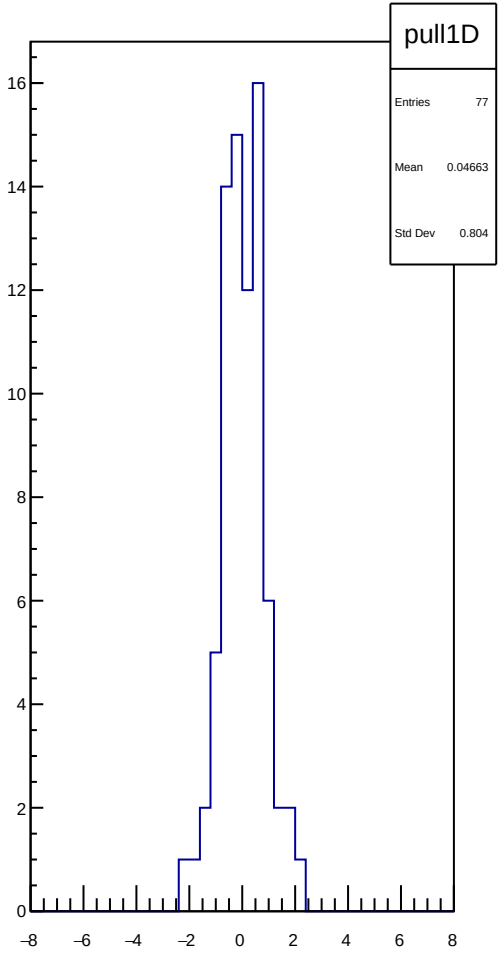

pull1D
Entries 77
Mean 0.05427
Std Dev 0.7857

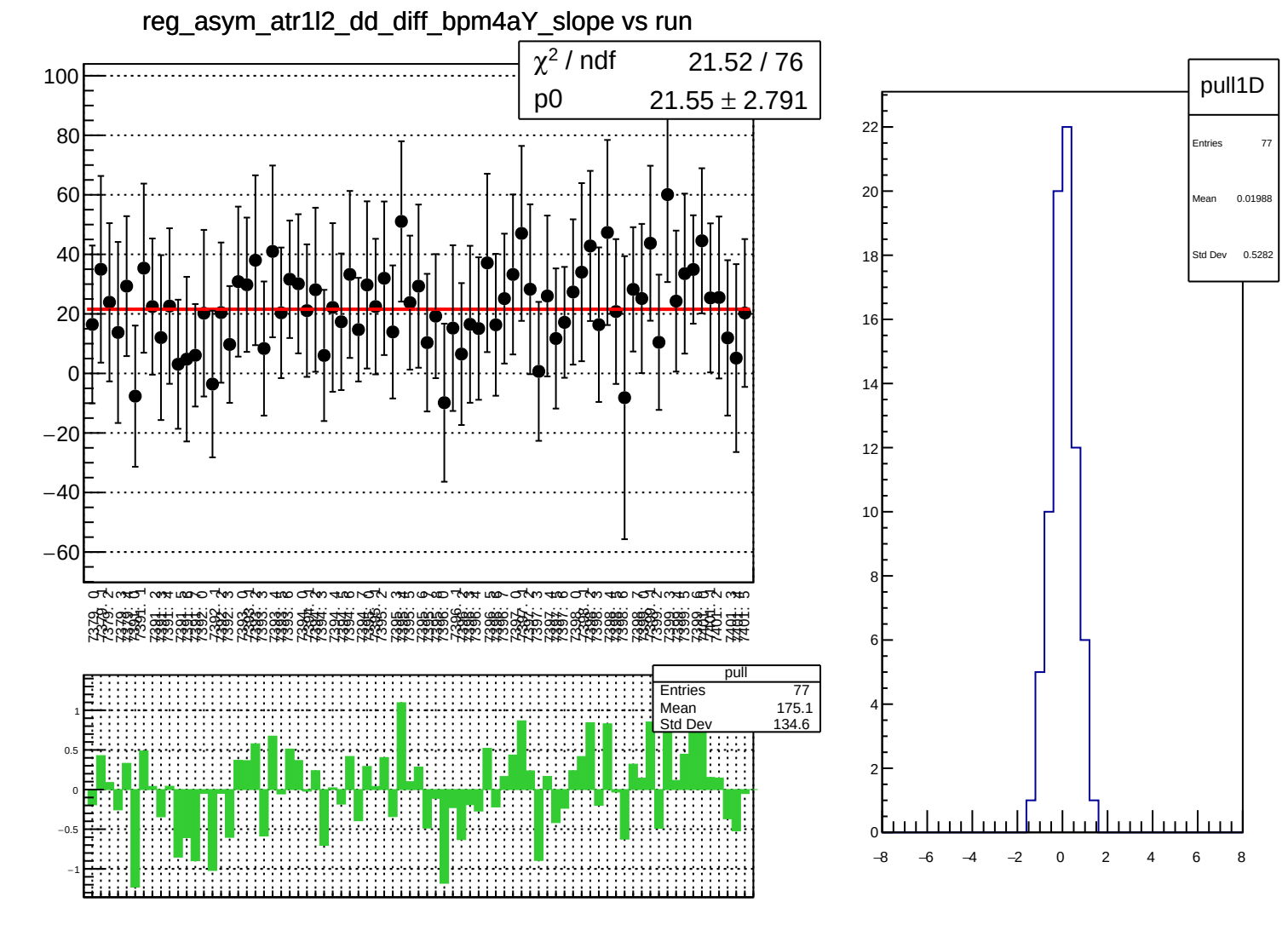

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.11 / 76
p0 51.04 ± 3.35
pull
Entries 77
Mean 202.6
Std Dev 165

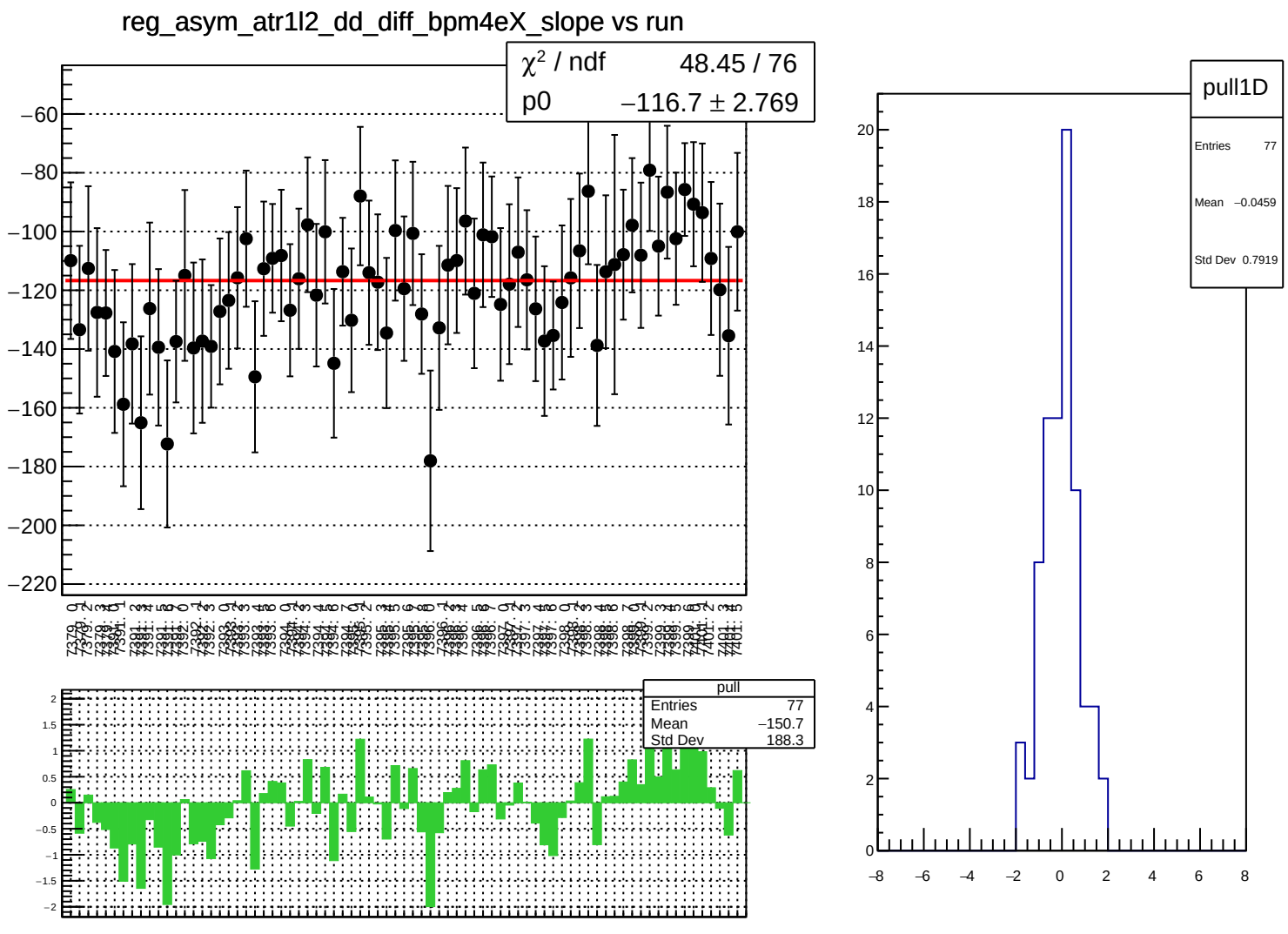

pull1D
Entries 77
Mean 0.01608
Std Dev 0.5821

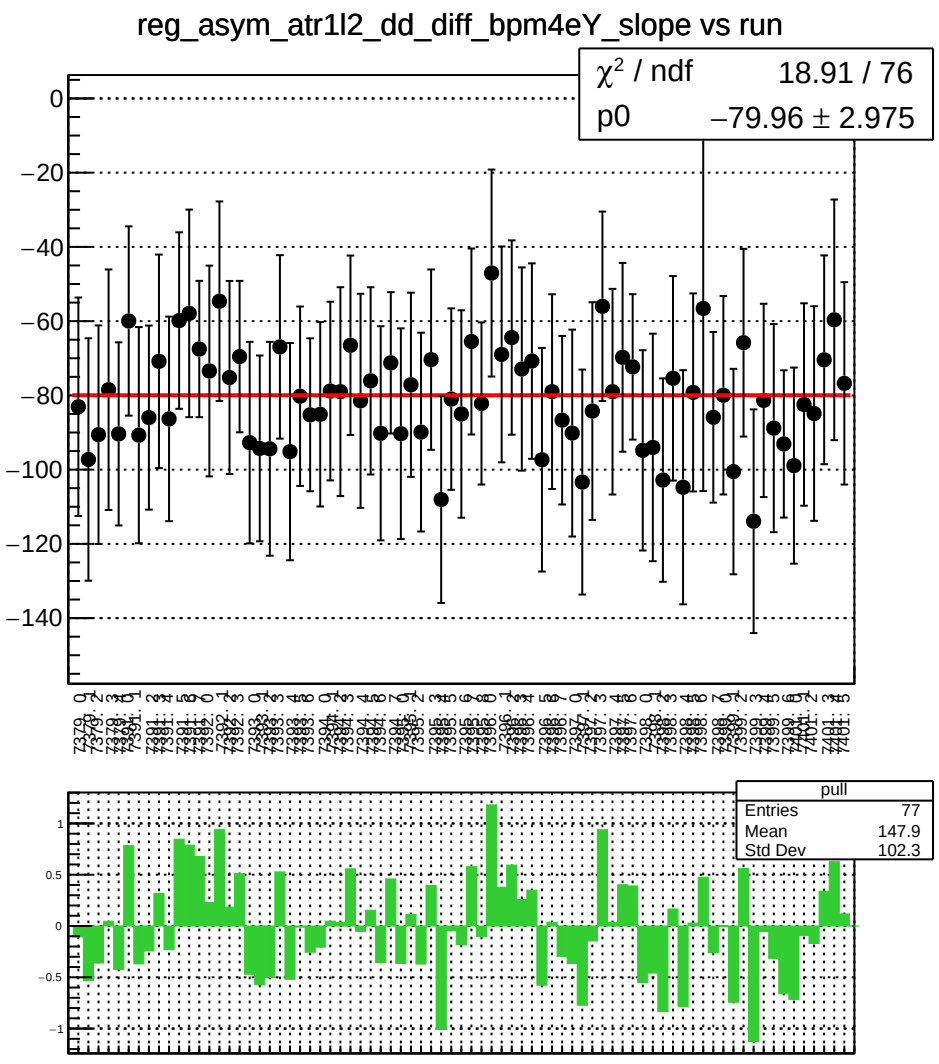

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 871.5 / 76
p0 −113.8 ± 0.1526
−105
−110
−115
−120
−125
−130
pull
Entries 77
Mean −97.01
Std Dev 111.1
pull1D
Entries 77
Mean 0.608
Std Dev 2.004

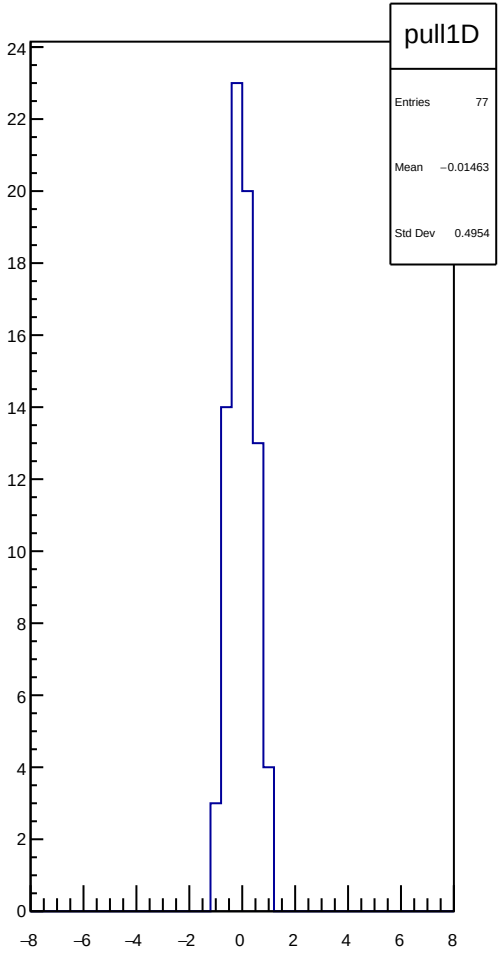

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 49.94 / 76
p0 109.9 ± 2.668
pull
Entries 77
Mean −144.3
Std Dev 181.5

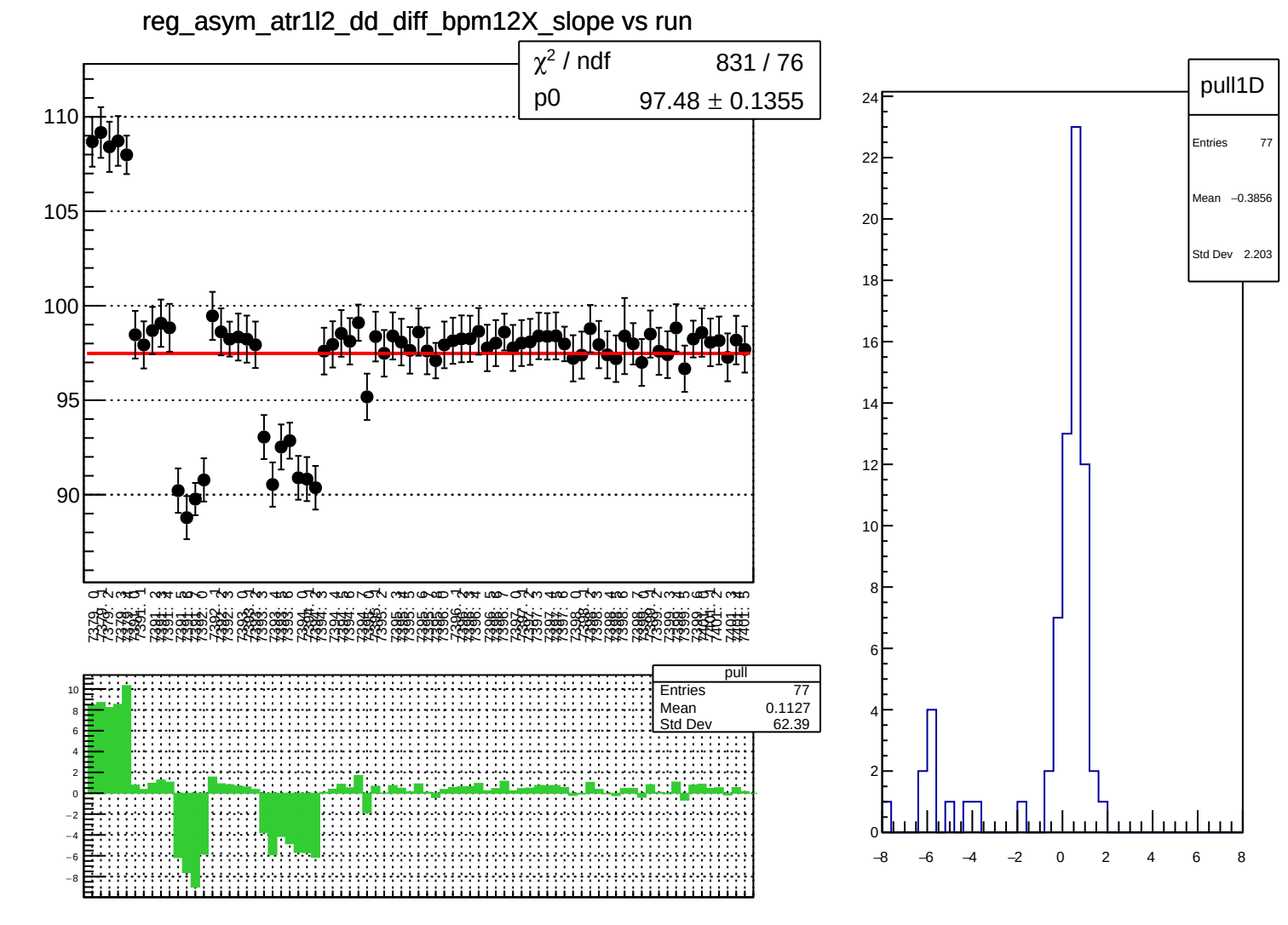

pull1D
Entries 77
Mean 0.04663
Std Dev 0.804

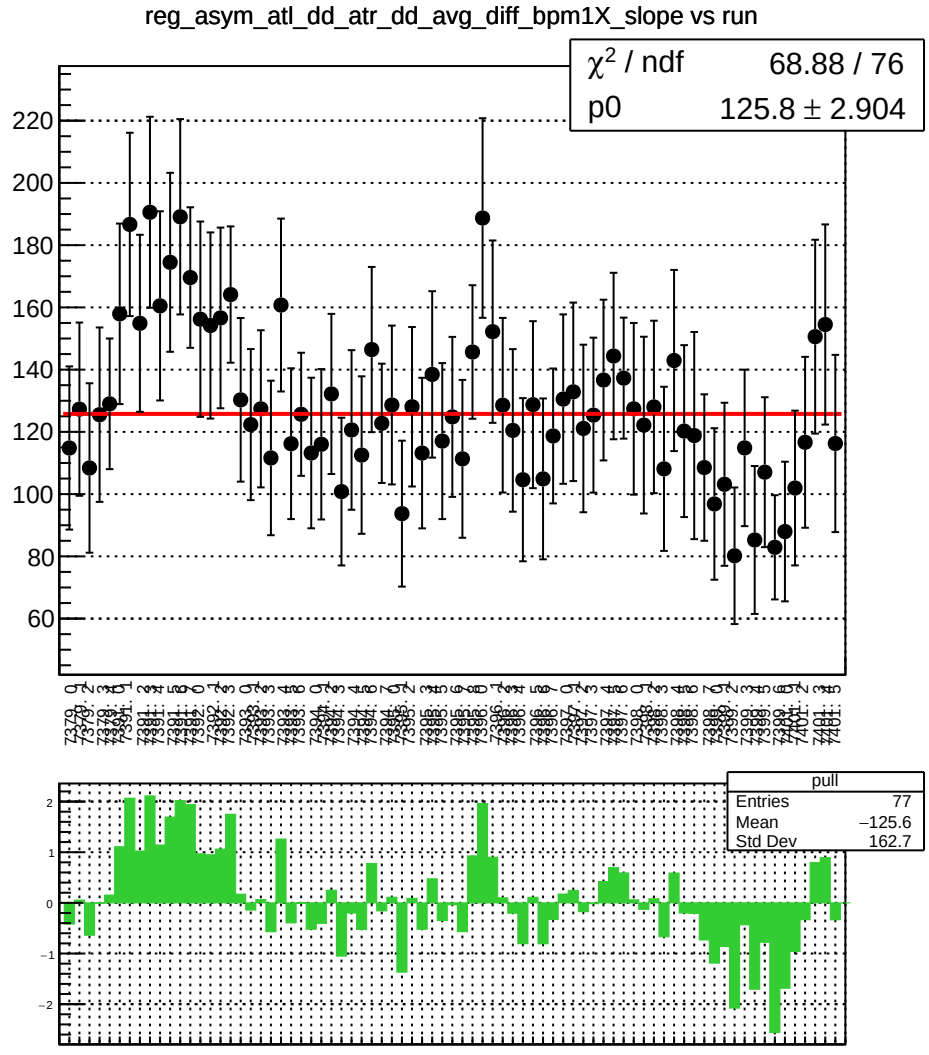

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.52 / 76
p0 21.55 ± 2.791
pull
Entries 77
Mean 175.1
Std Dev 134.6
pull1D
Entries 77
Mean 0.01988
Std Dev 0.5282

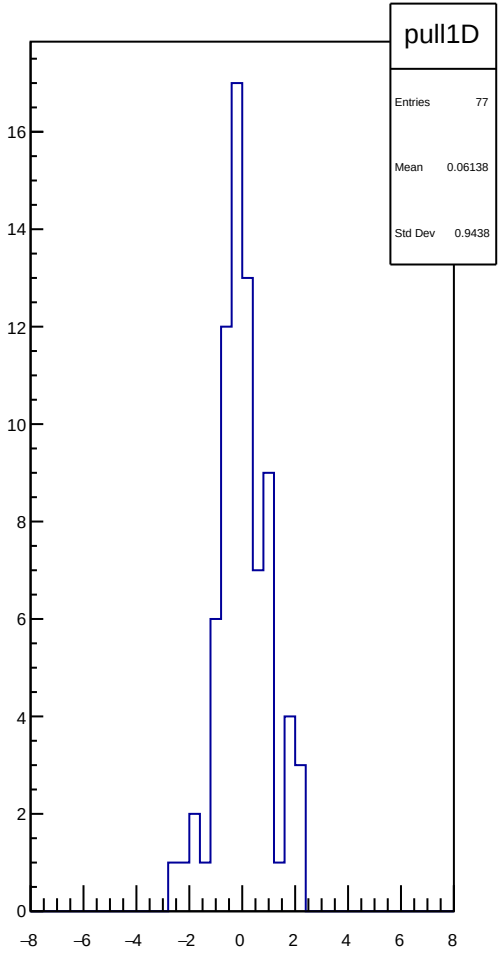

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.45 / 76
p0 −116.7 ± 2.769
pull
Entries 77
Mean −150.7
Std Dev 188.3
pull1D
Entries 77
Mean −0.0459
Std Dev 0.7919

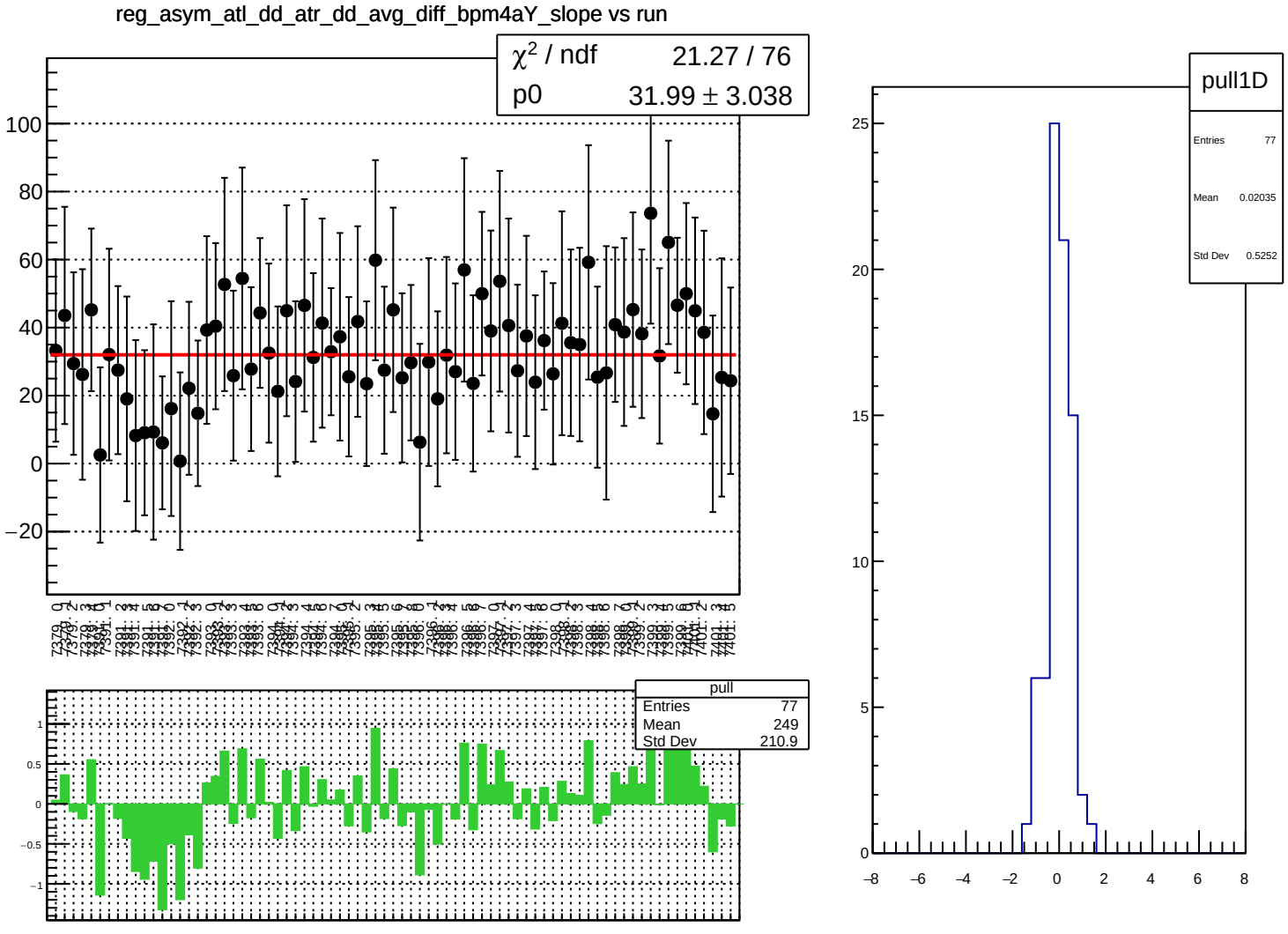

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.91 / 76
p0 −79.96 ± 2.975
pull
Entries 77
Mean 147.9
Std Dev 102.3

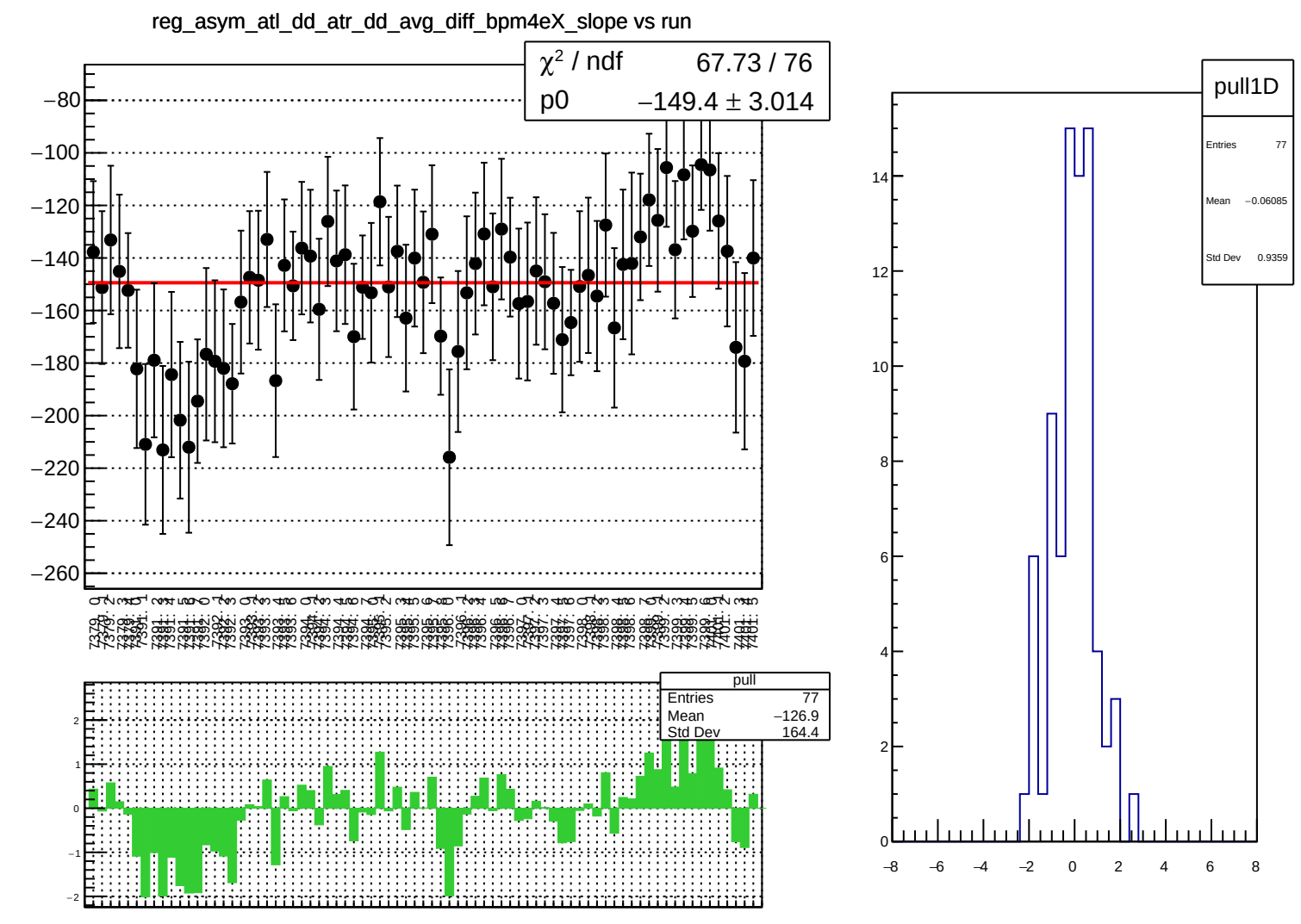

pull1D
Entries 77
Mean −0.01463
Std Dev 0.4954

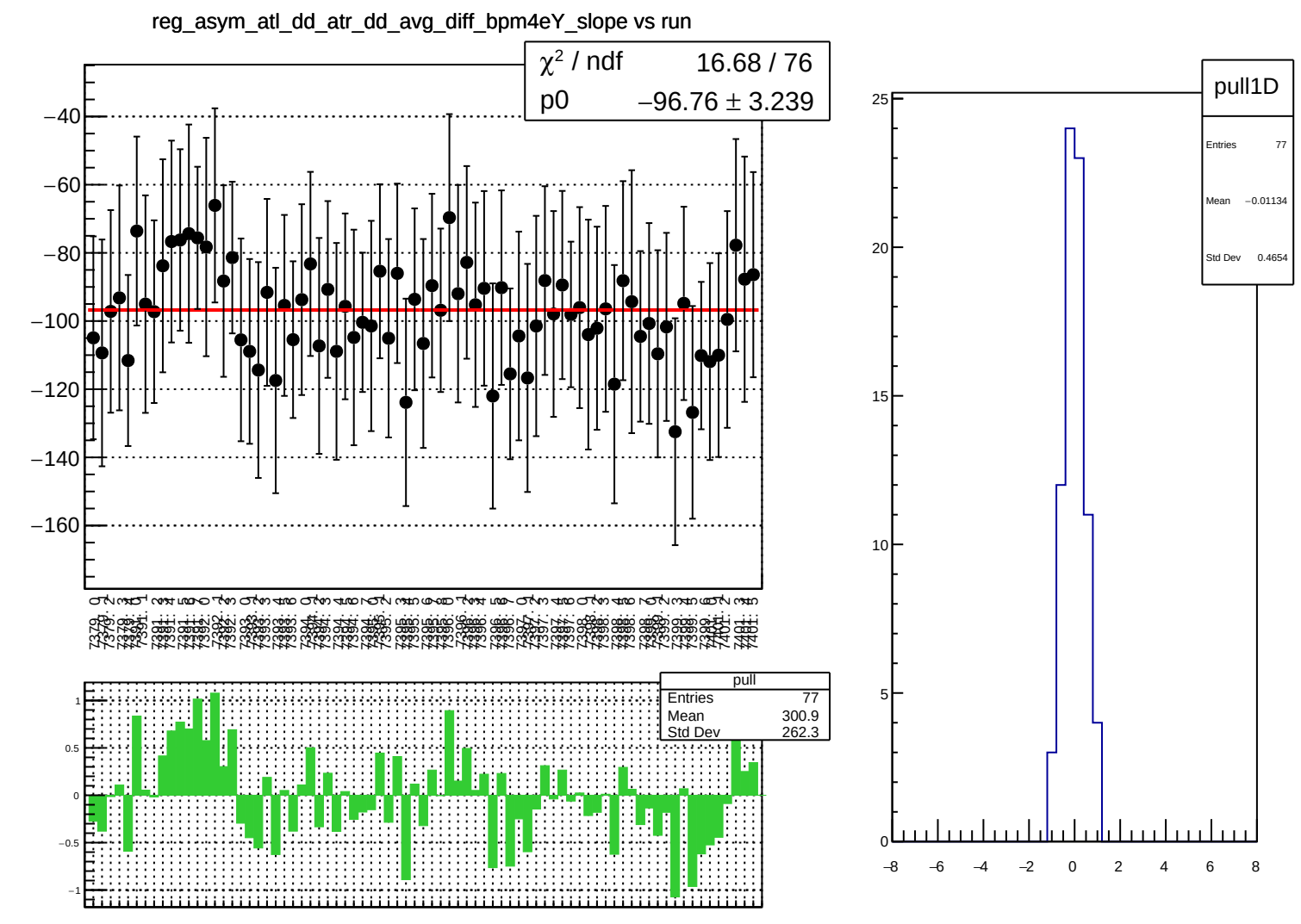

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 831 / 76
p0 97.48 ± 0.1355
110
105
100
95
90
pull
Entries 77
Mean 0.1127
Std Dev 62.39
pull1D
Entries 77
Mean −0.3856
Std Dev 2.203

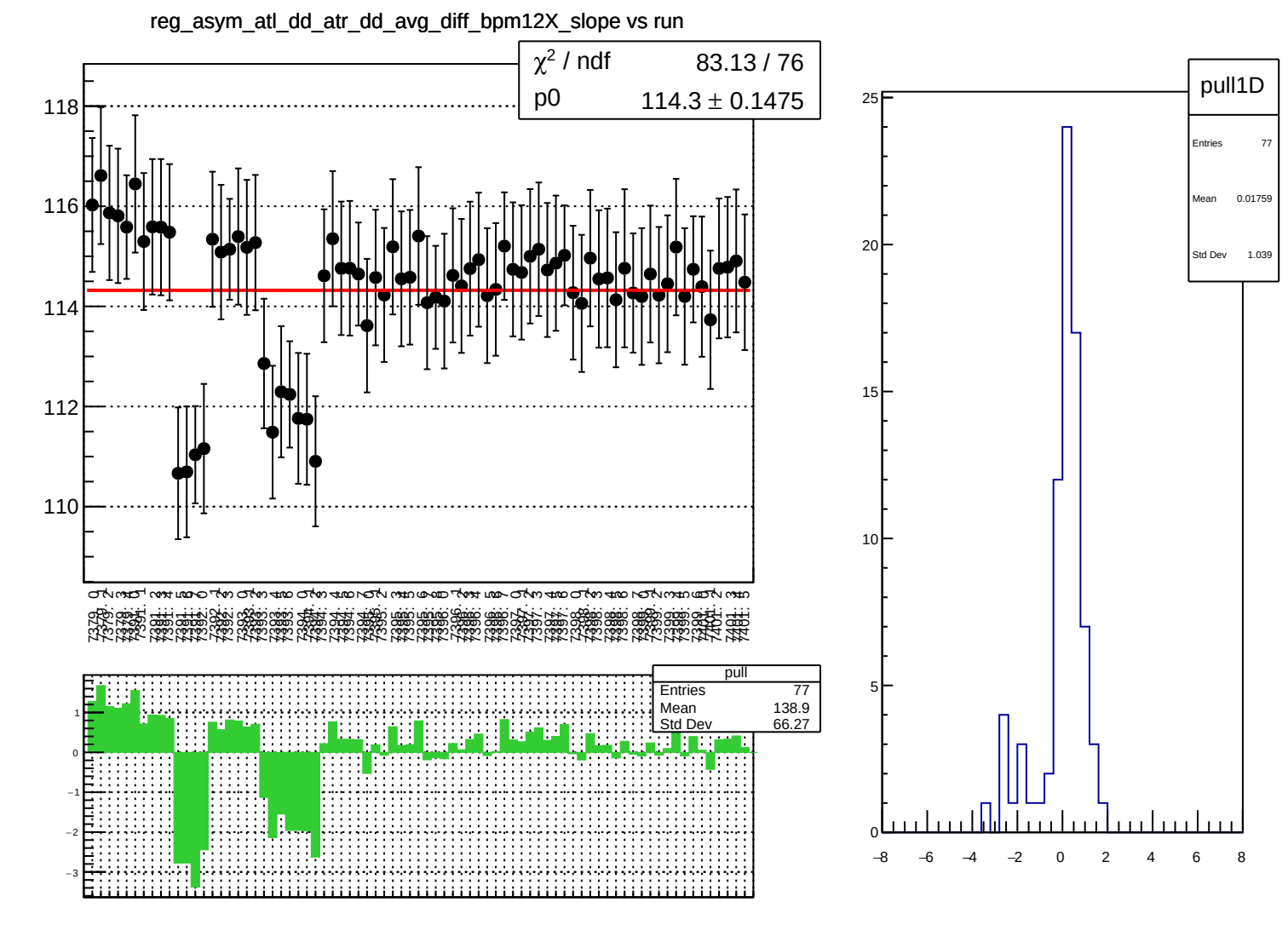

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 68.88 / 76
p0 125.8 ± 2.904
pull
Entries 77
Mean −125.6
Std Dev 162.7

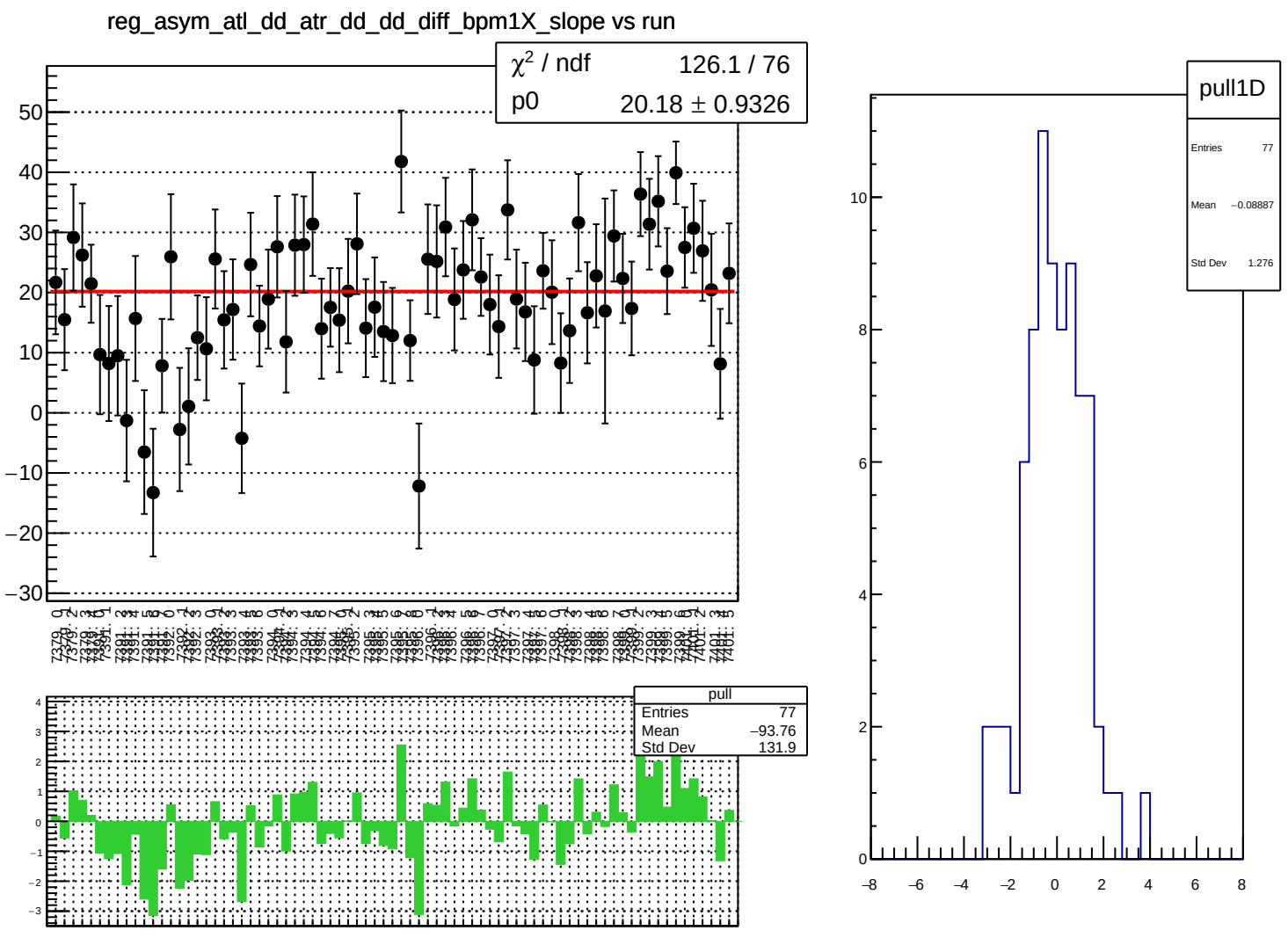

pull1D
Entries 77
Mean 0.06138
Std Dev 0.9438

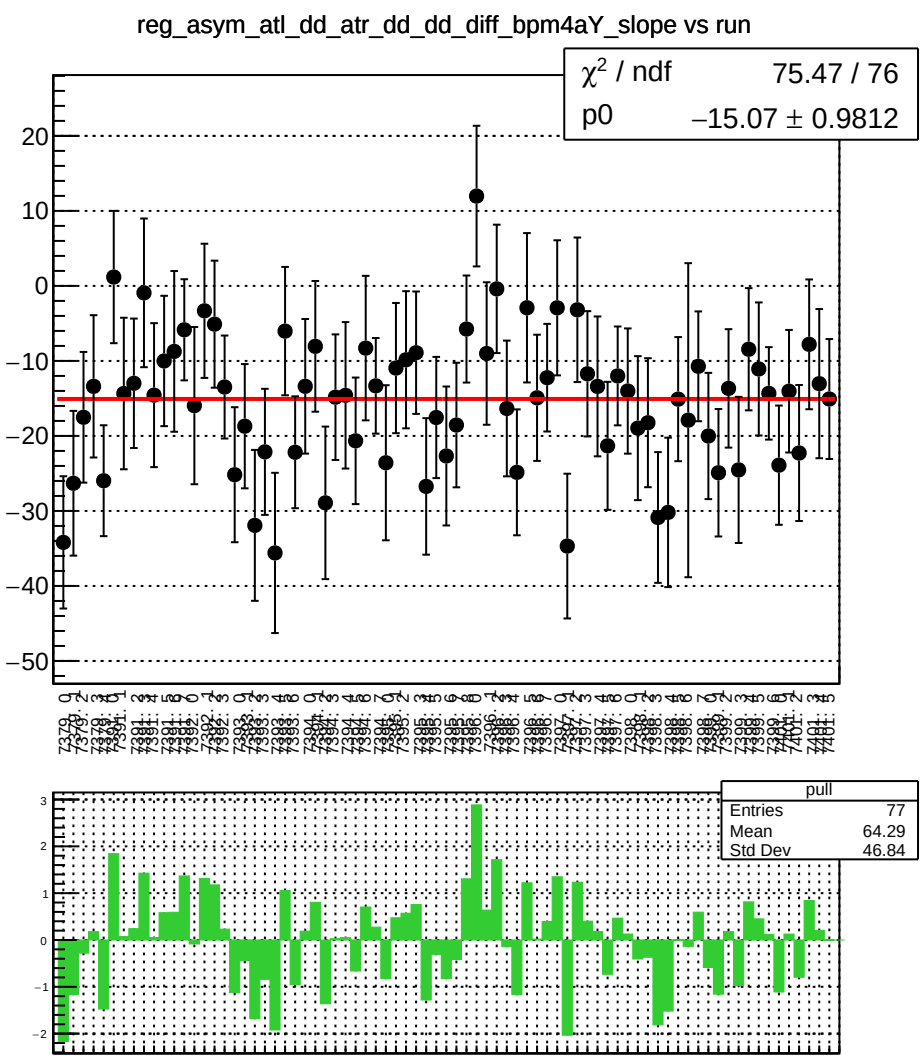

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.27 / 76
p0 31.99 ± 3.038
pull
Entries 77
Mean 249
Std Dev 210.9
pull1D
Entries 77
Mean 0.02035
Std Dev 0.5252

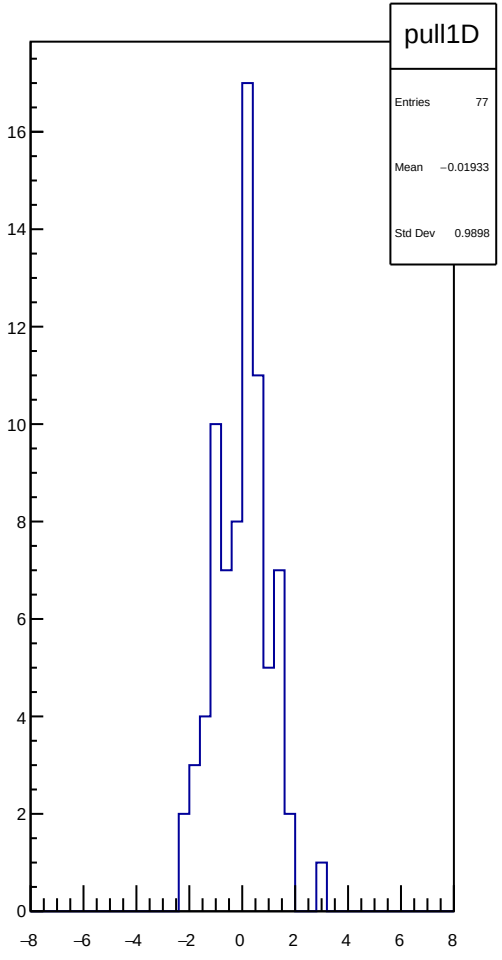

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 67.73 / 76
p0 −149.4 ± 3.014
pull
Entries 77
Mean −126.9
Std Dev 164.4
pull1D
Entries 77
Mean −0.06085
Std Dev 0.9359

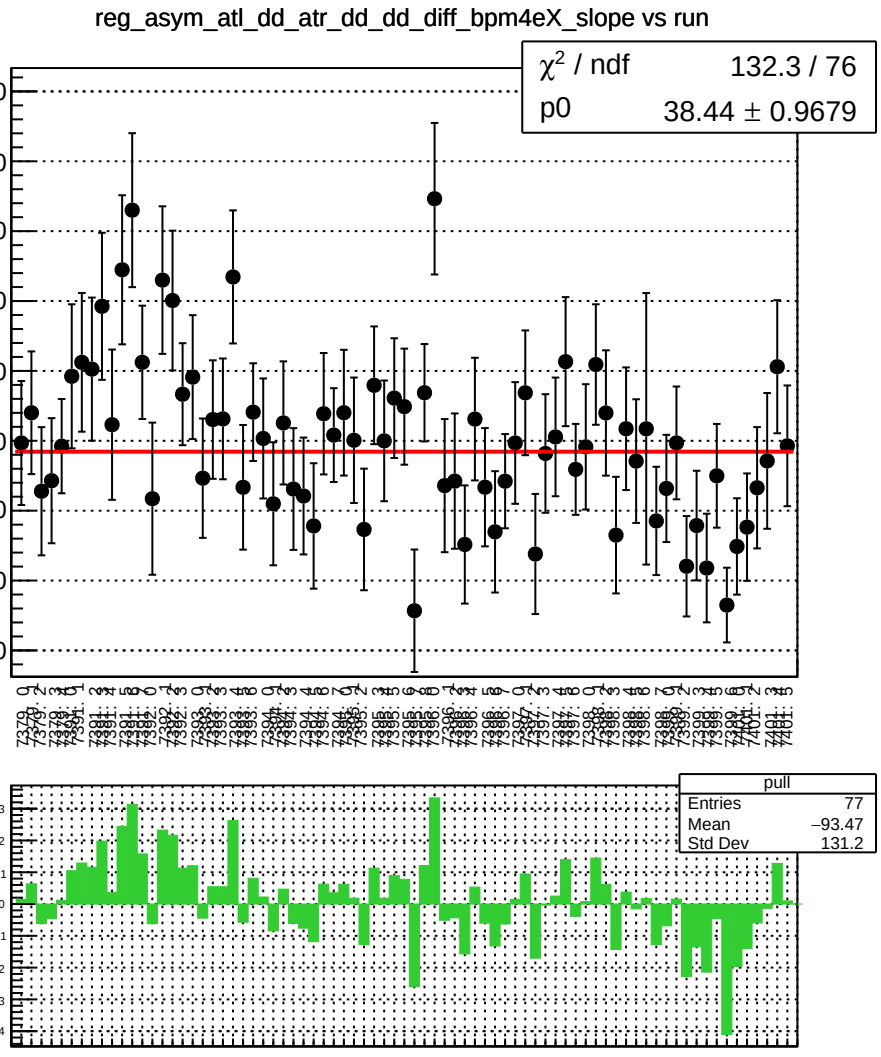

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.68 / 76
p0 −96.76 ± 3.239
−40
−60
−80
−100
−120
−140
−160
pull
Entries 77
Mean 300.9
Std Dev 262.3
1
0.5
0
−0.5
−1
pull1D
Entries 77
Mean −0.01134
Std Dev 0.4654
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

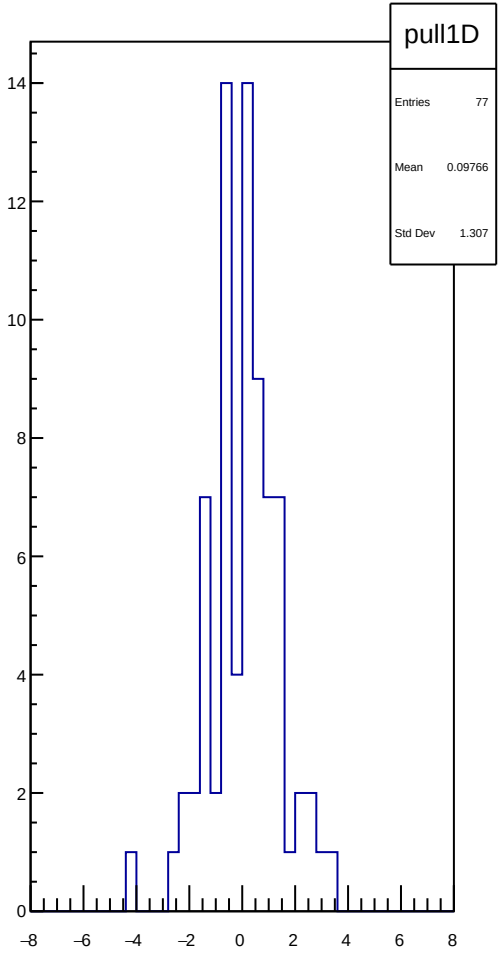

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 83.13 / 76
p0 114.3 ± 0.1475
118
116
114
112
110
pull
Entries 77
Mean 138.9
Std Dev 66.27
1
0
−1
−2
−3
pull1D
Entries 77
Mean 0.01759
Std Dev 1.039
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

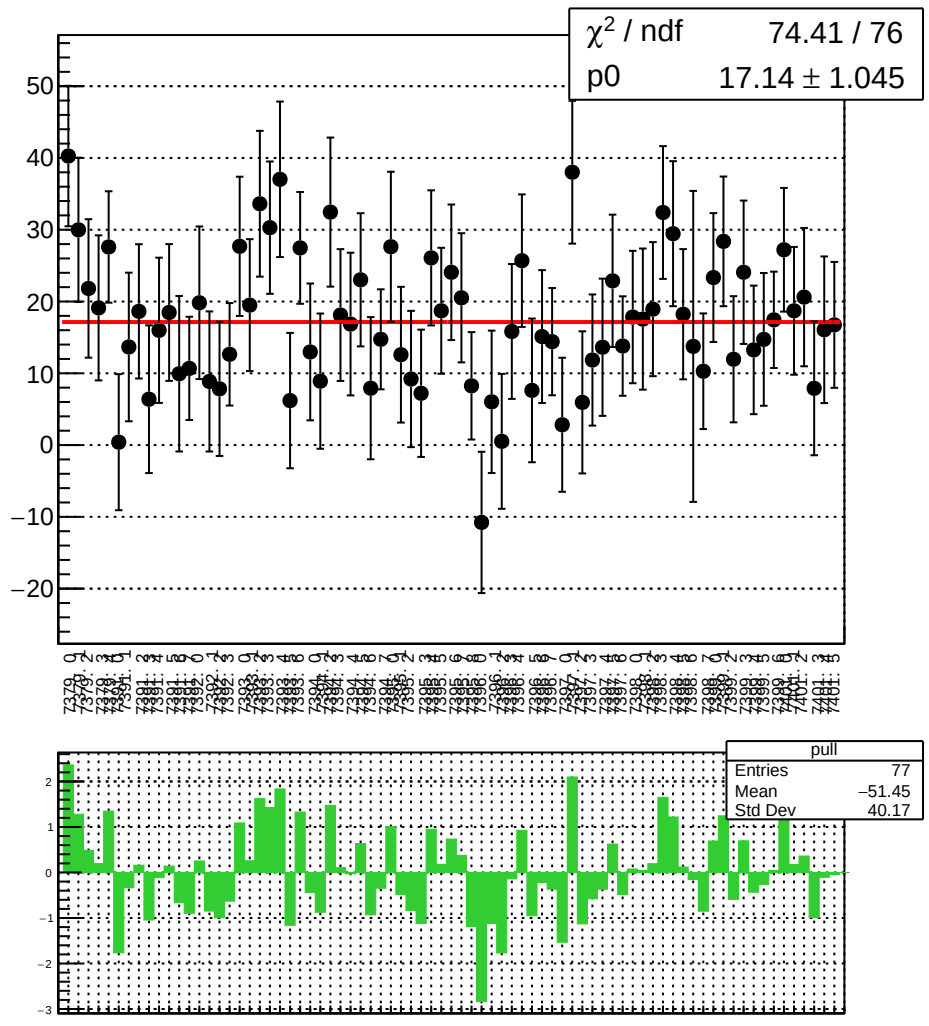

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 126.1 / 76
p0 20.18 ± 0.9326
pull
Entries 77
Mean −93.76
Std Dev 131.9
pull1D
Entries 77
Mean −0.08887
Std Dev 1.276

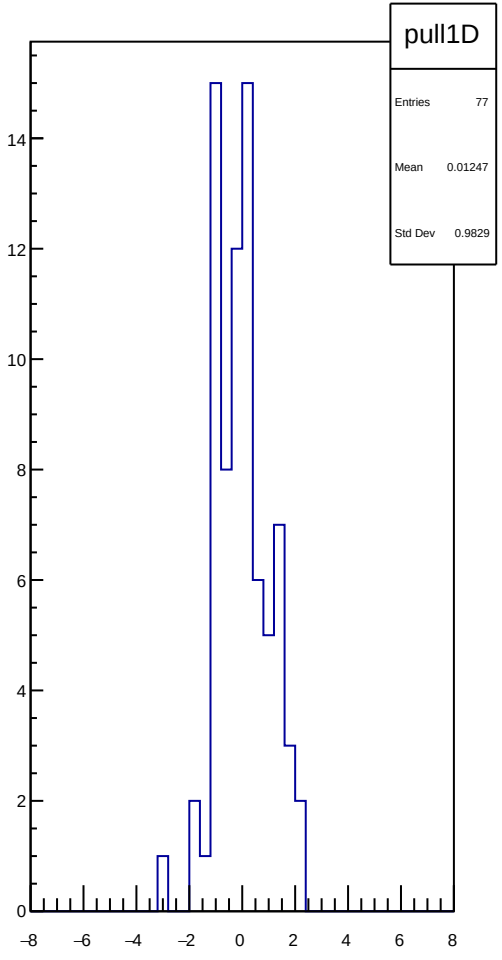

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 75.47 / 76
p0 −15.07 ± 0.9812
pull
Entries 77
Mean 64.29
Std Dev 46.84

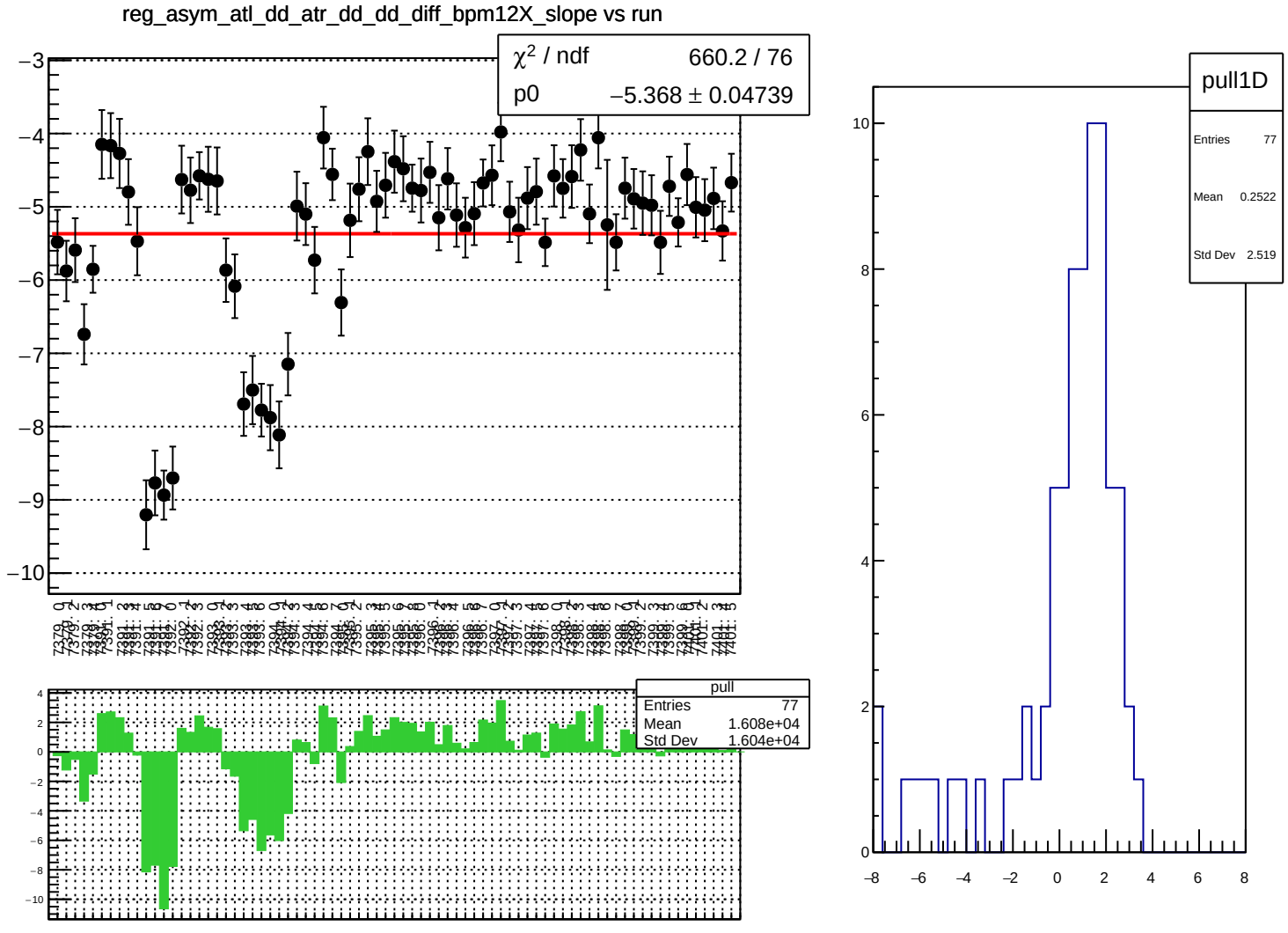

pull1D
Entries 77
Mean −0.01933
Std Dev 0.9898

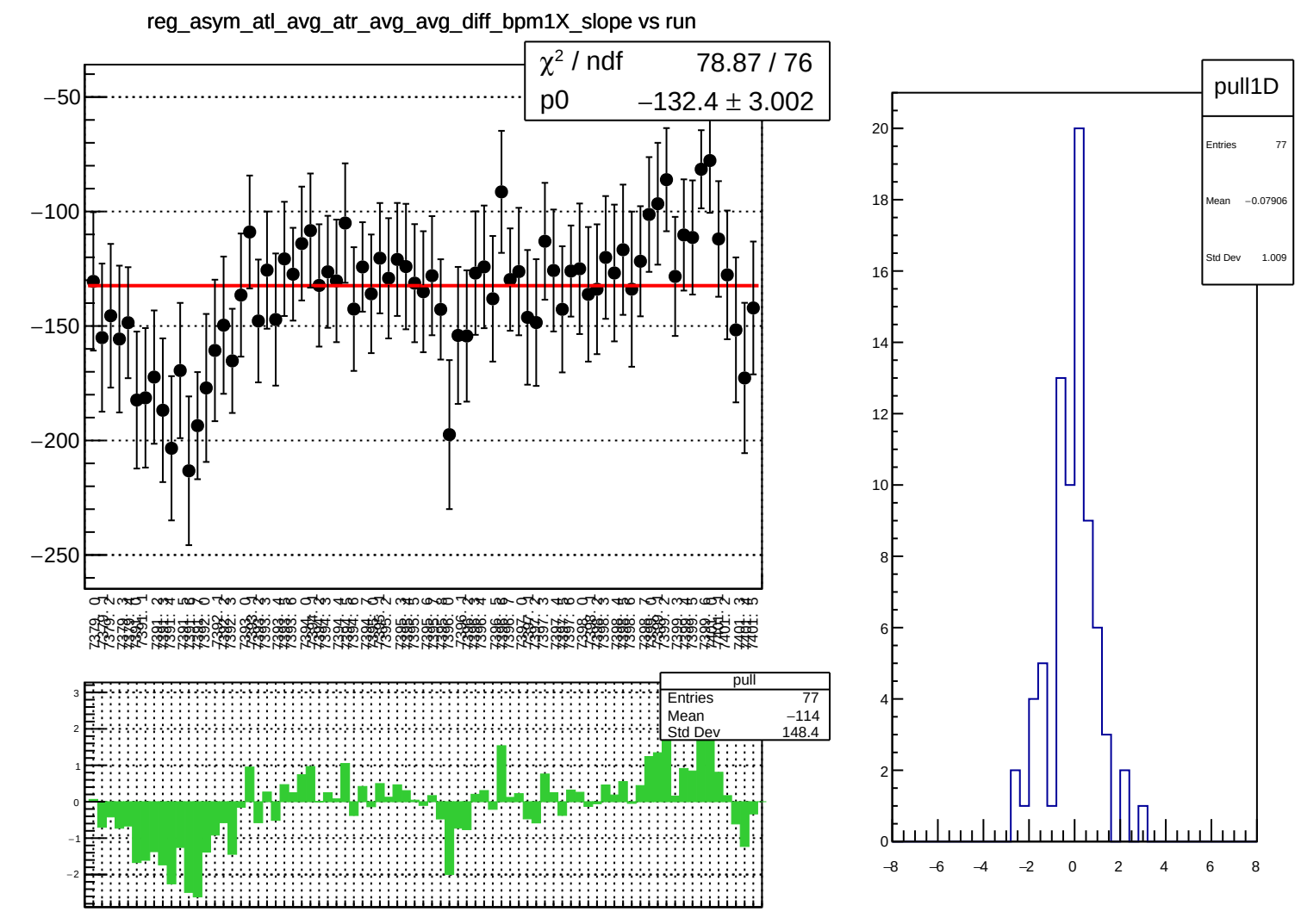

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 132.3 / 76
p0 38.44 ± 0.9679
pull
Entries 77
Mean −93.47
Std Dev 131.2

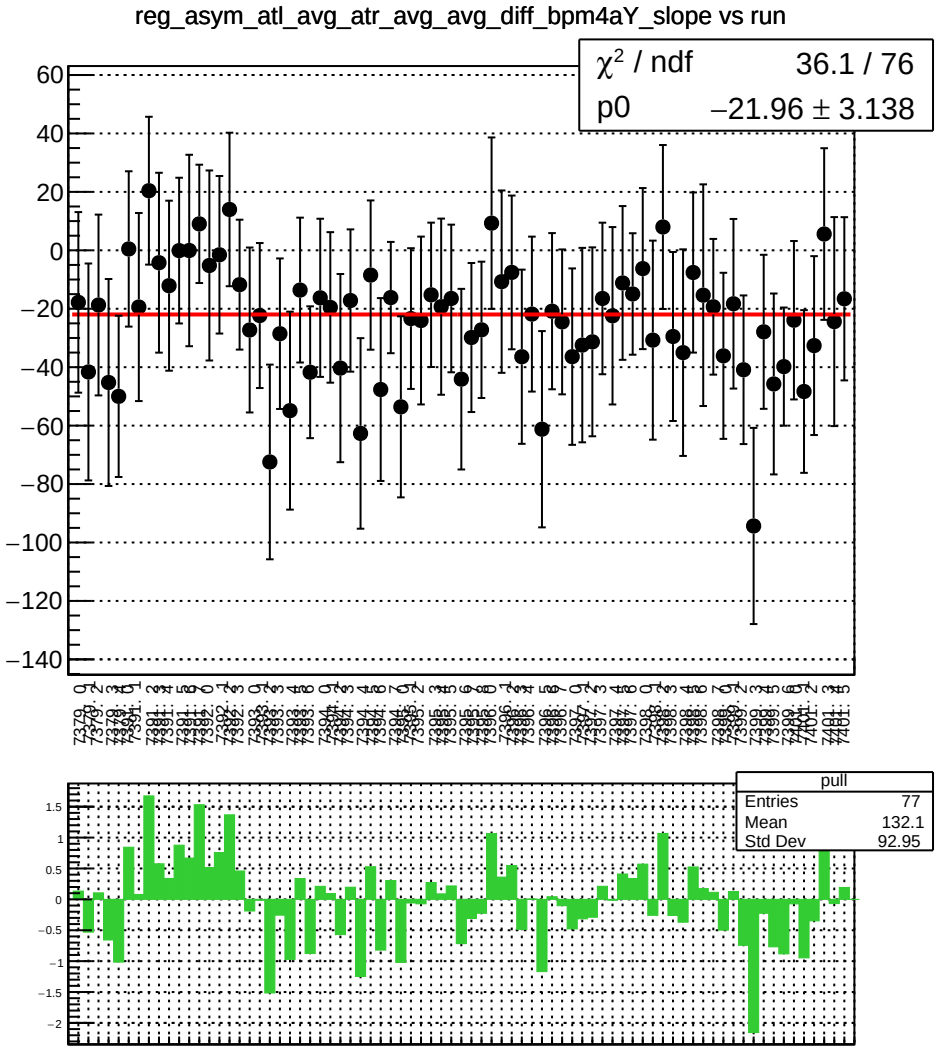

pull1D
Entries 77
Mean 0.09766
Std Dev 1.307

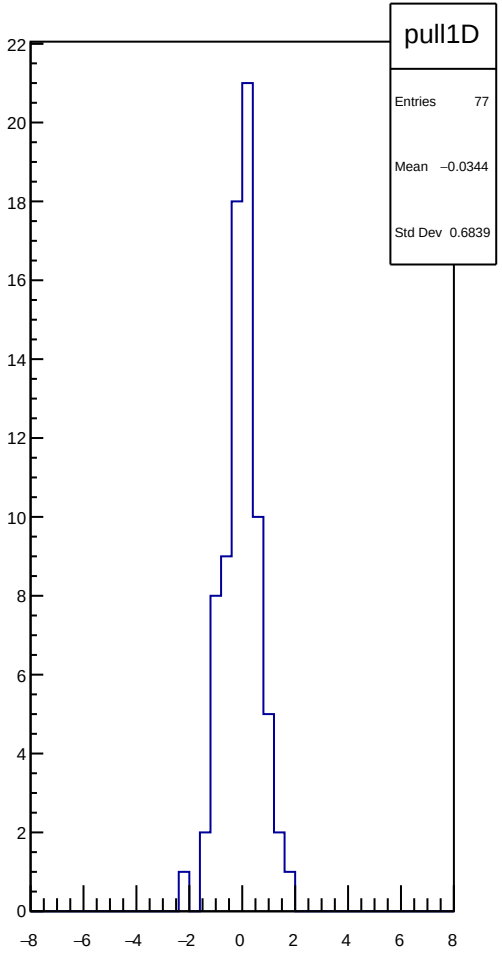

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.41 / 76
p0 17.14 ± 1.045
pull
Entries 77
Mean −51.45
Std Dev 40.17

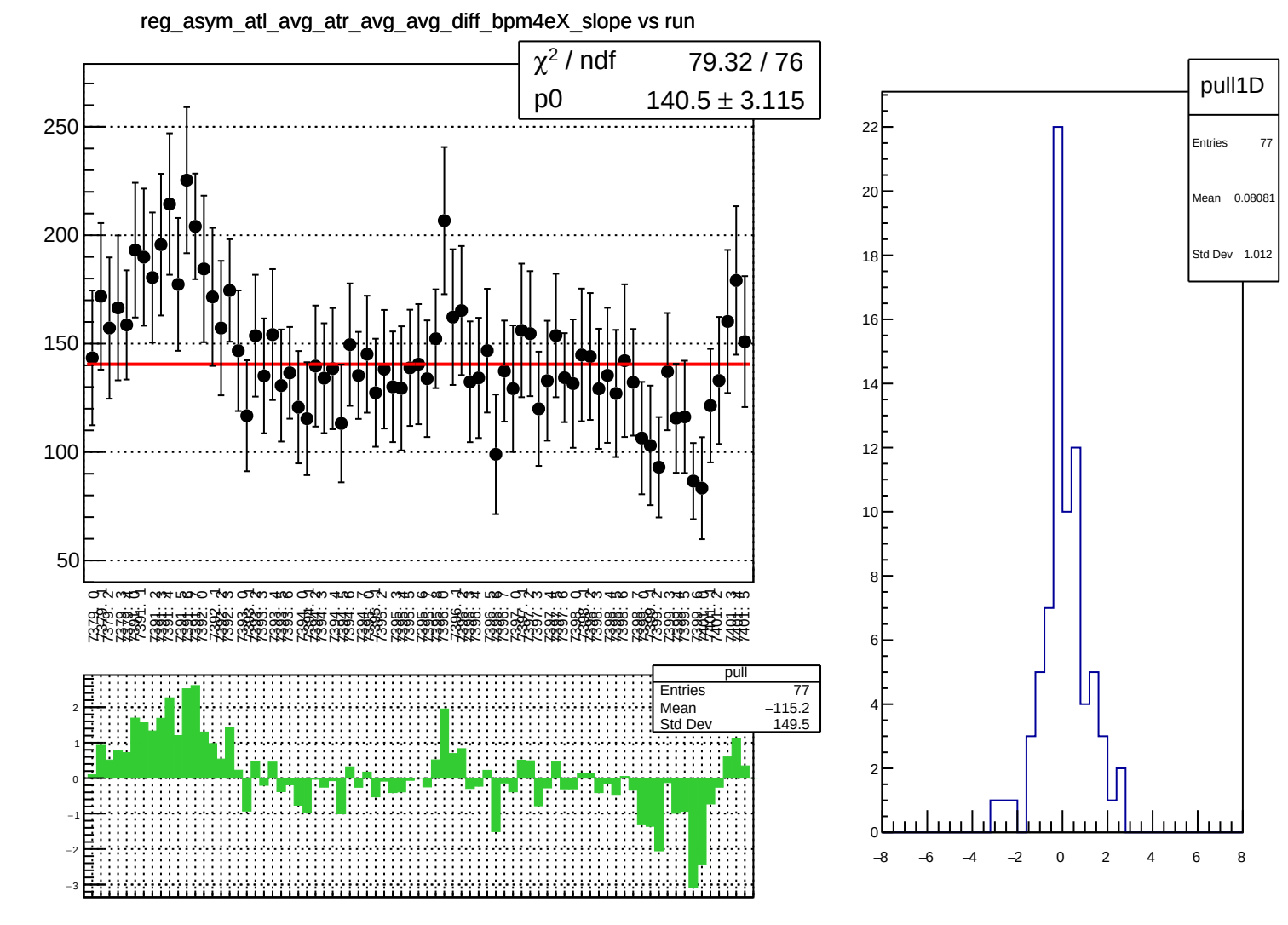

pull1D
Entries 77
Mean 0.01247
Std Dev 0.9829

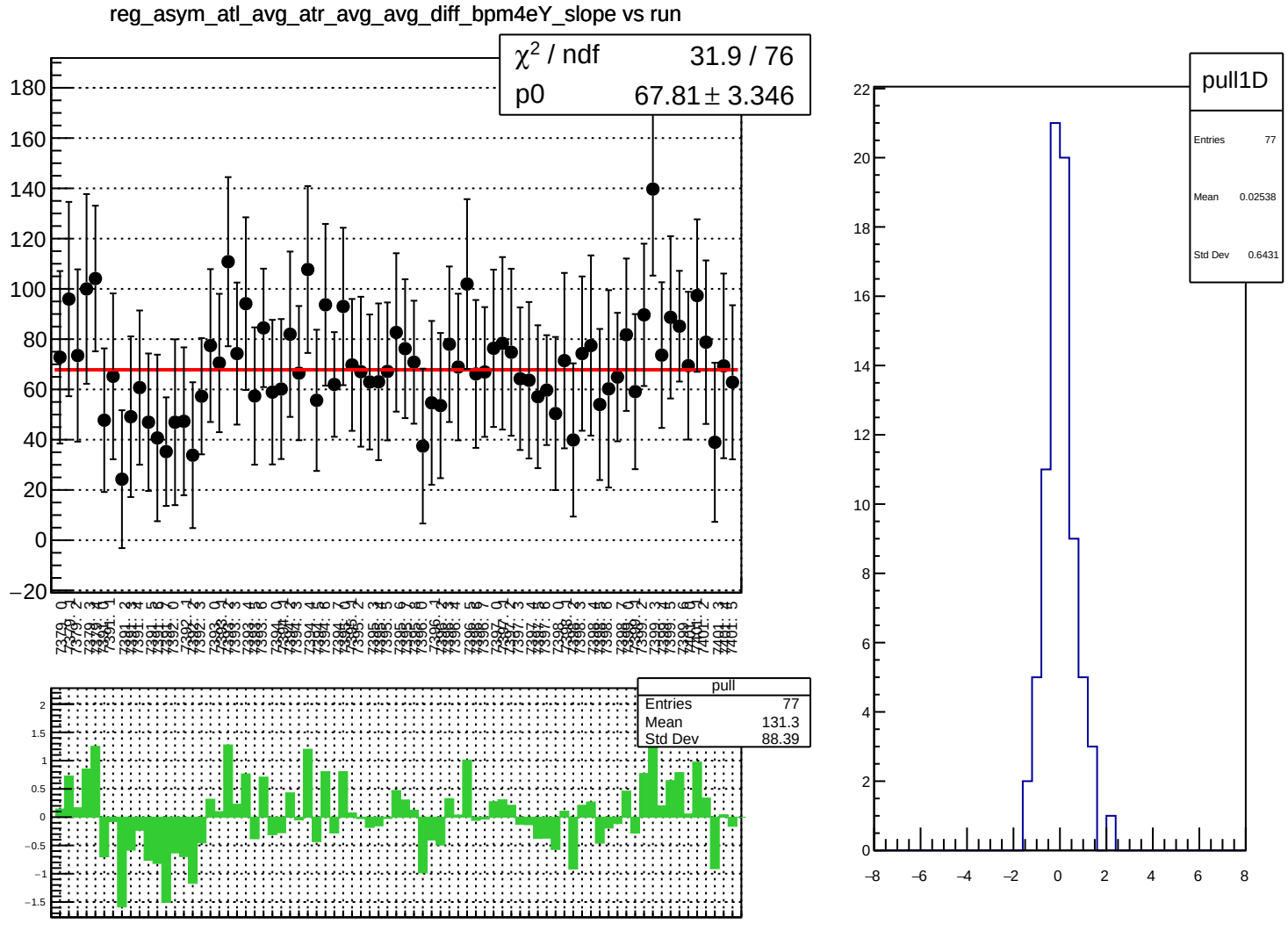

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 660.2 / 76
p0 −5.368 ± 0.04739
pull
Entries 77
Mean 1.608e+04
Std Dev 1.604e+04
pull1D
Entries 77
Mean 0.2522
Std Dev 2.519

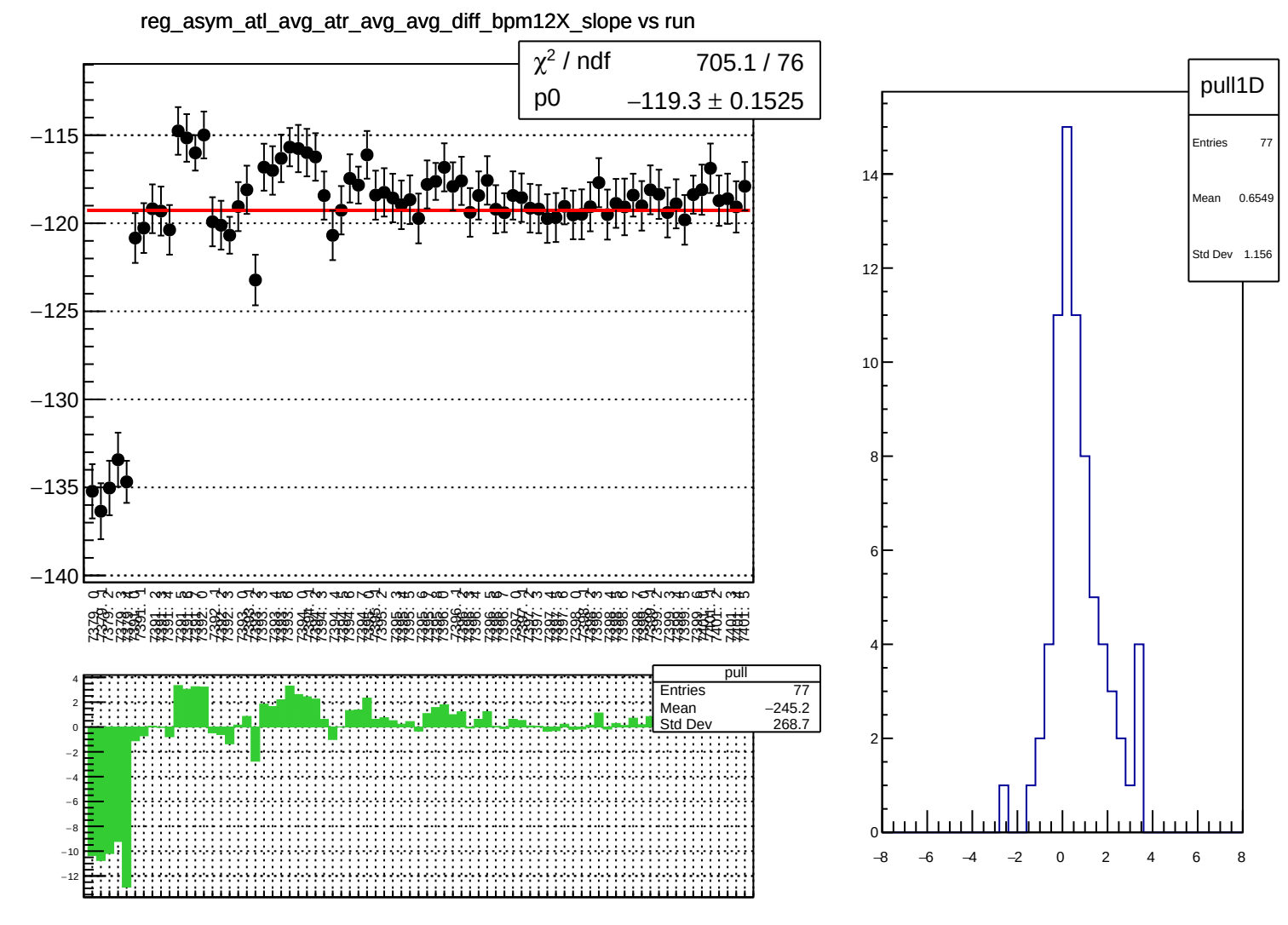

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 78.87 / 76
p0 −132.4 ± 3.002
−50
−100
−150
−200
−250
pull
Entries 77
Mean −114
Std Dev 148.4
3
2
1
0
−1
−2
pull1D
Entries 77
Mean −0.07906
Std Dev 1.009
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

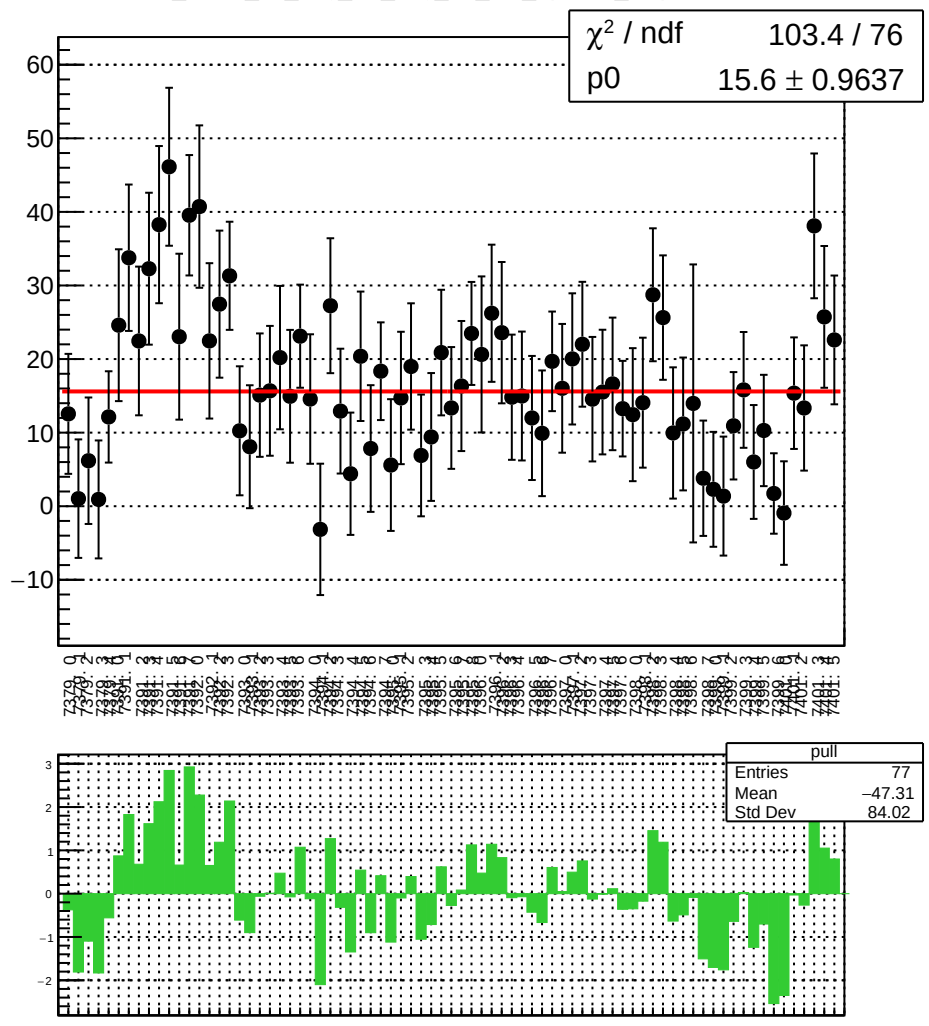

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.1 / 76
p0 −21.96 ± 3.138
pull
Entries 77
Mean 132.1
Std Dev 92.95

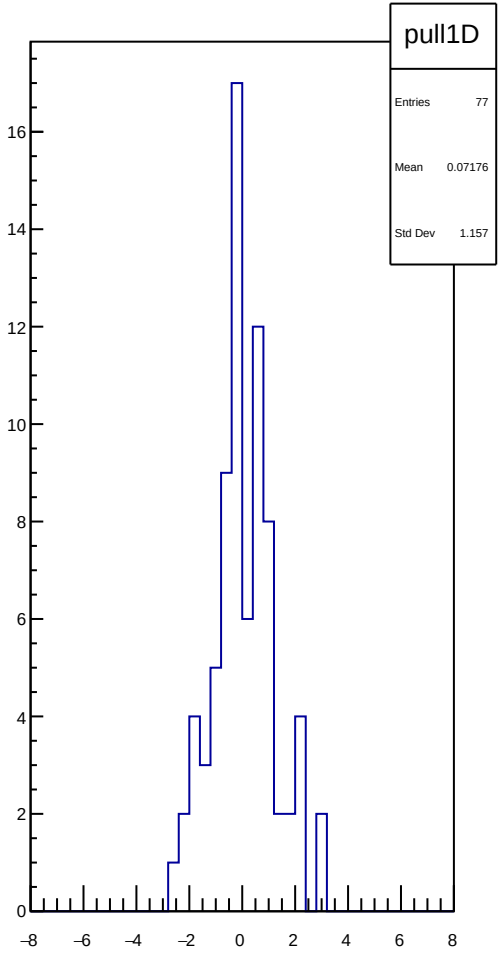

pull1D
Entries 77
Mean −0.0344
Std Dev 0.6839

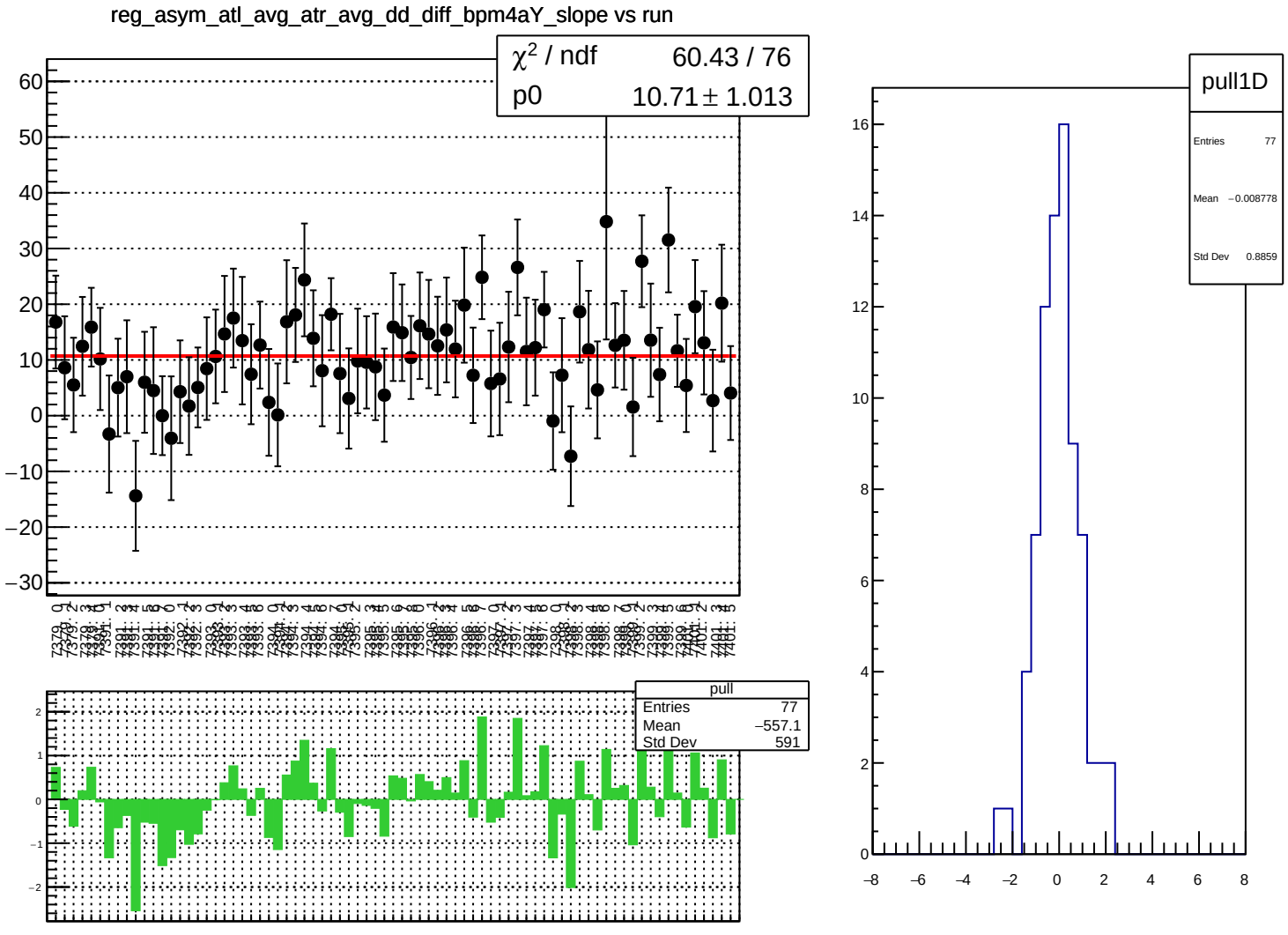

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 79.32 / 76
p0 140.5 ± 3.115
pull
Entries 77
Mean −115.2
Std Dev 149.5
pull1D
Entries 77
Mean 0.08081
Std Dev 1.012

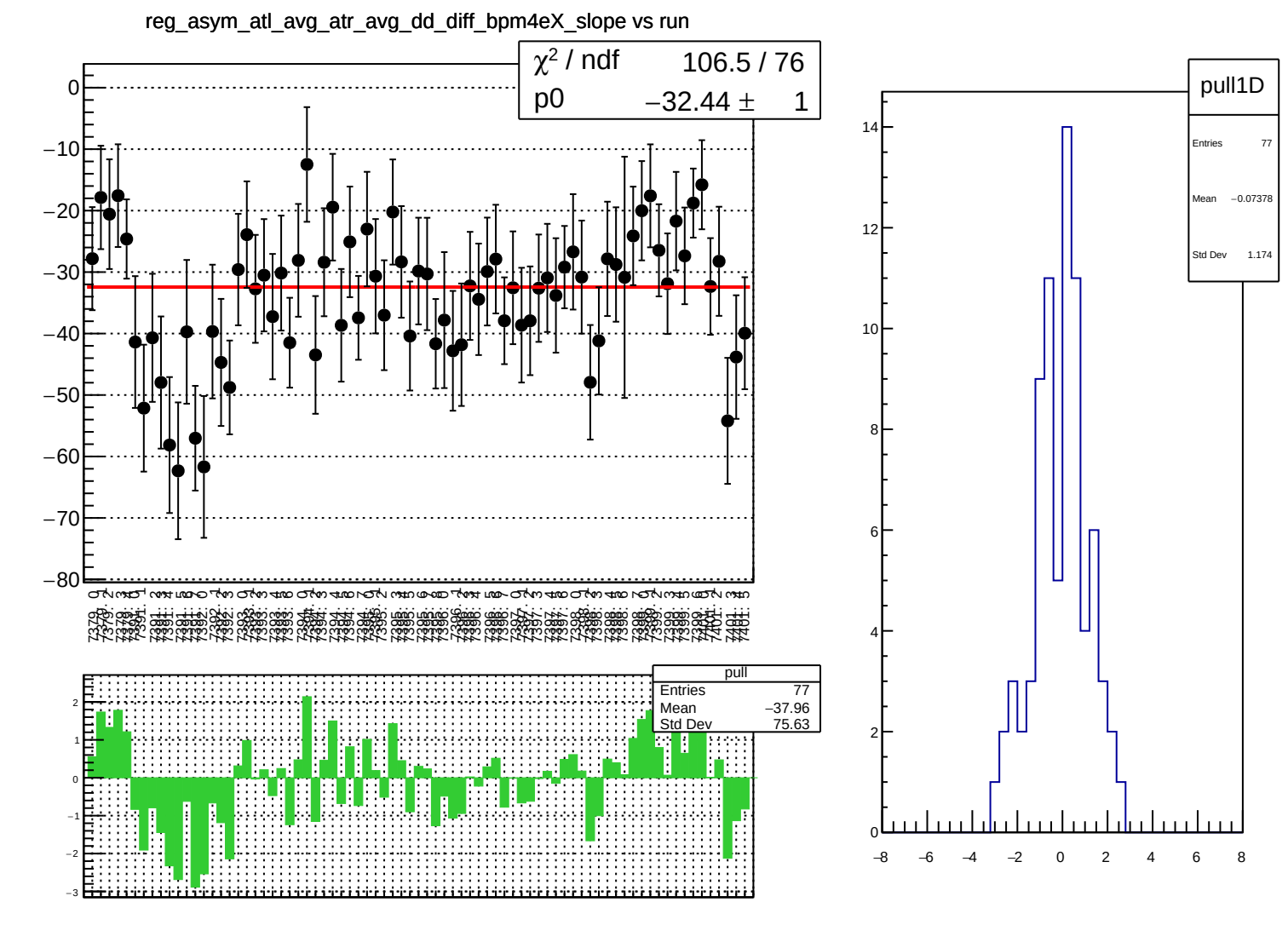

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.9 / 76
p0 67.81 ± 3.346
pull
Entries 77
Mean 131.3
Std Dev 88.39
pull1D
Entries 77
Mean 0.02538
Std Dev 0.6431

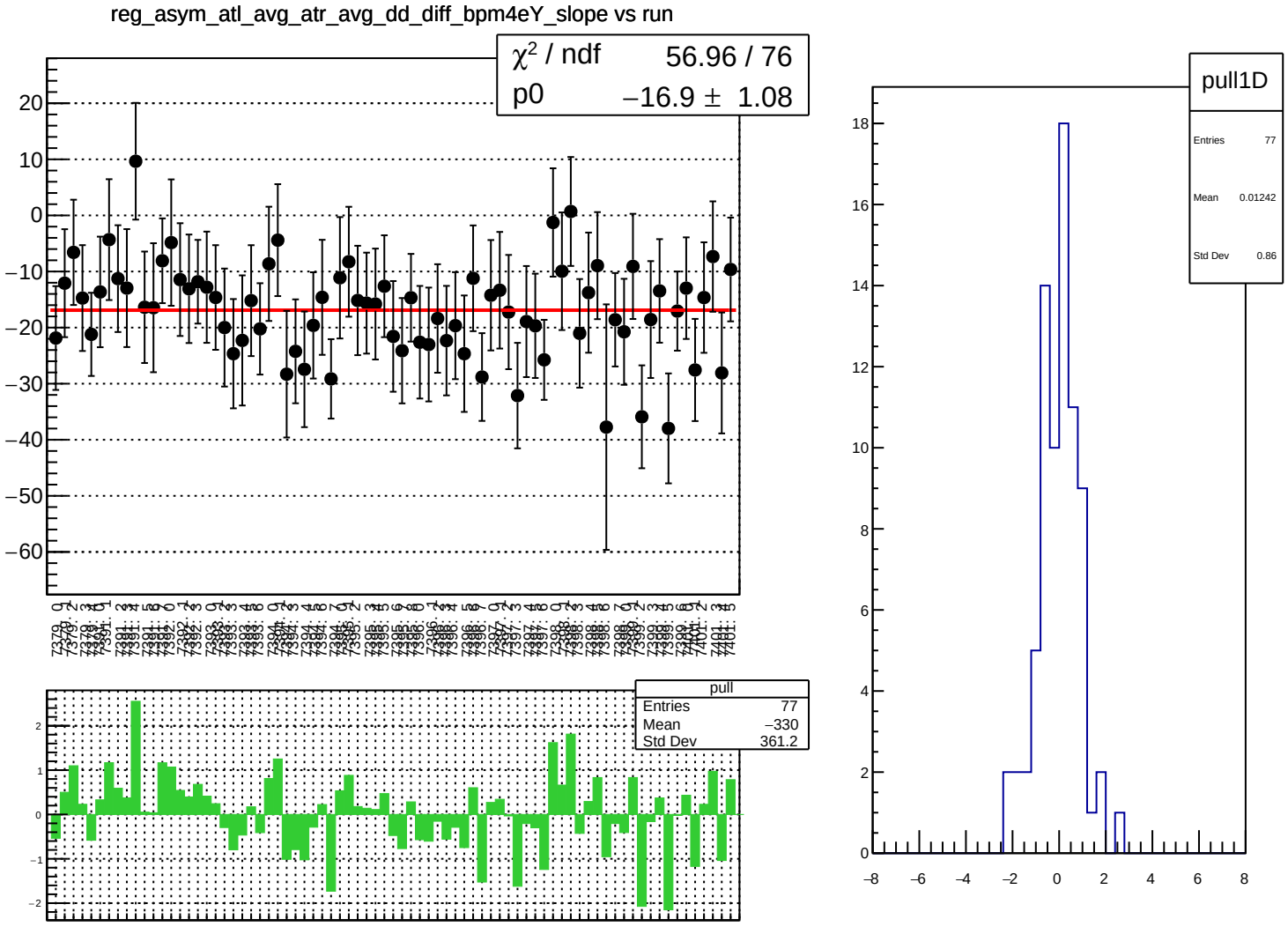

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 705.1 / 76
p0 −119.3 ± 0.1525
pull
Entries 77
Mean −245.2
Std Dev 268.7
pull1D
Entries 77
Mean 0.6549
Std Dev 1.156

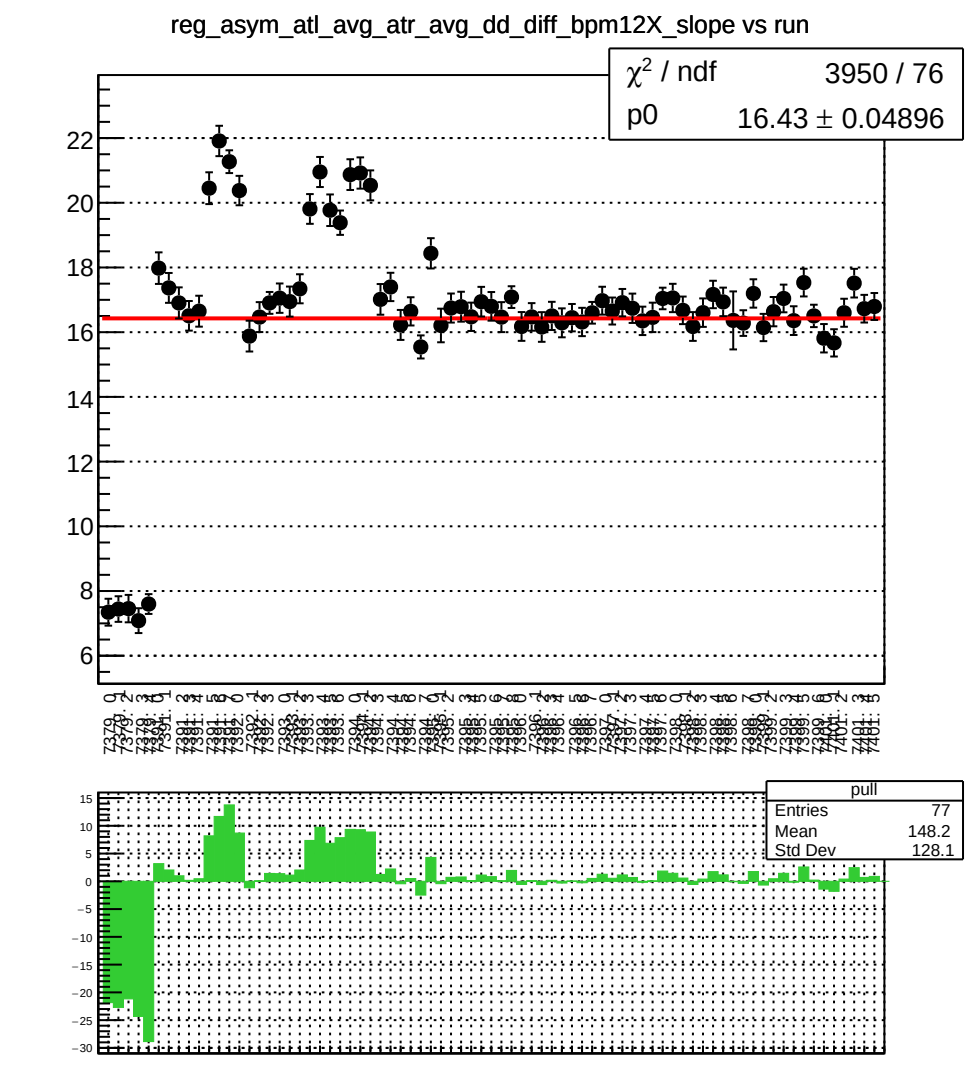

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 103.4 / 76
p0 15.6 ± 0.9637
pull
Entries 77
Mean −47.31
Std Dev 84.02

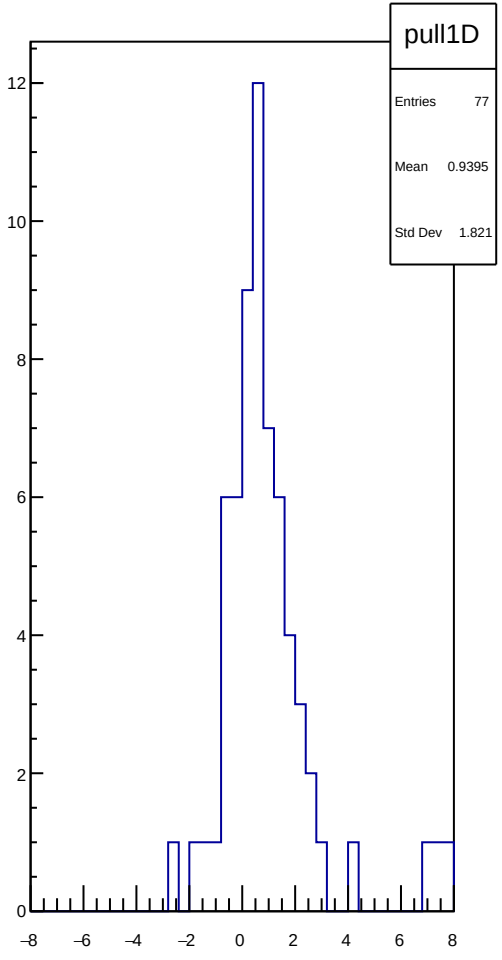

pull1D
Entries 77
Mean 0.07176
Std Dev 1.157

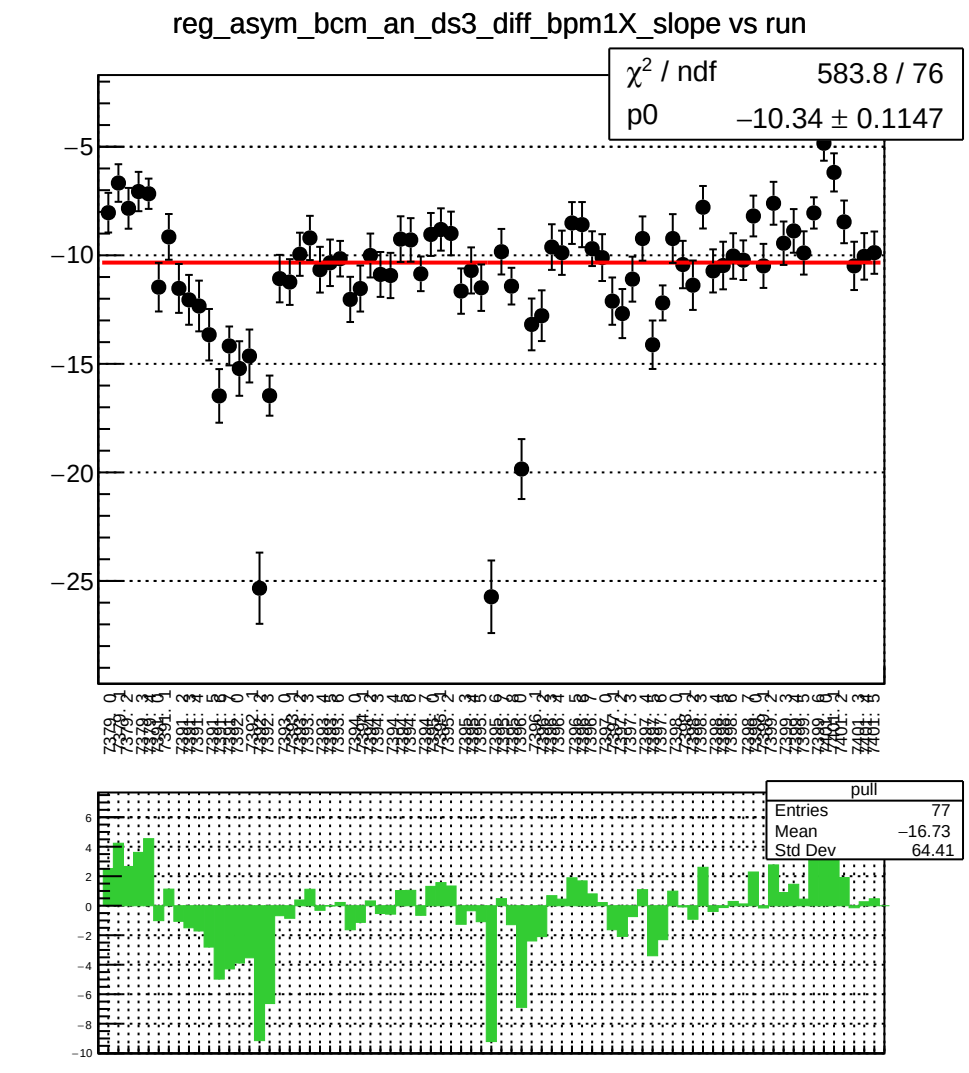

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.43 / 76
p0 10.71 ± 1.013
pull
Entries 77
Mean −557.1
Std Dev 591
pull1D
Entries 77
Mean −0.008778
Std Dev 0.8859

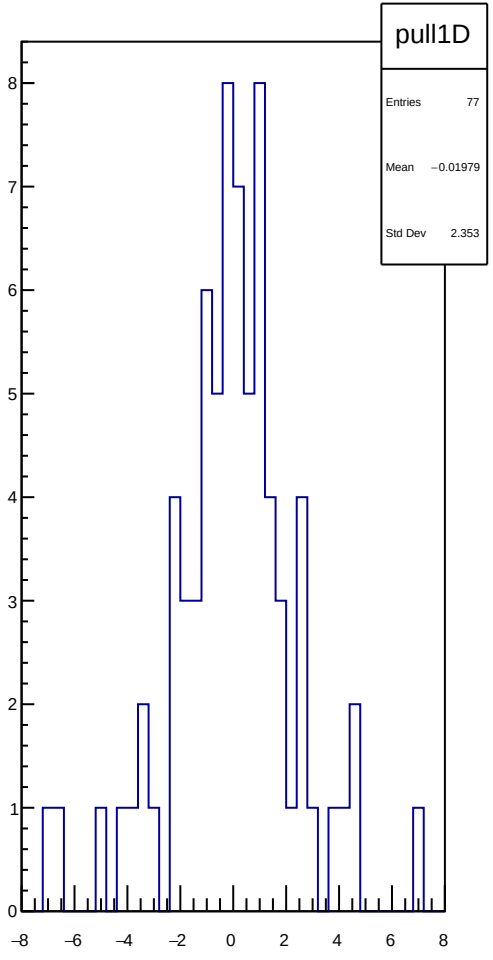

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 106.5 / 76
p0 −32.44 ± 1
pull
Entries 77
Mean −37.96
Std Dev 75.63
pull1D
Entries 77
Mean −0.07378
Std Dev 1.174

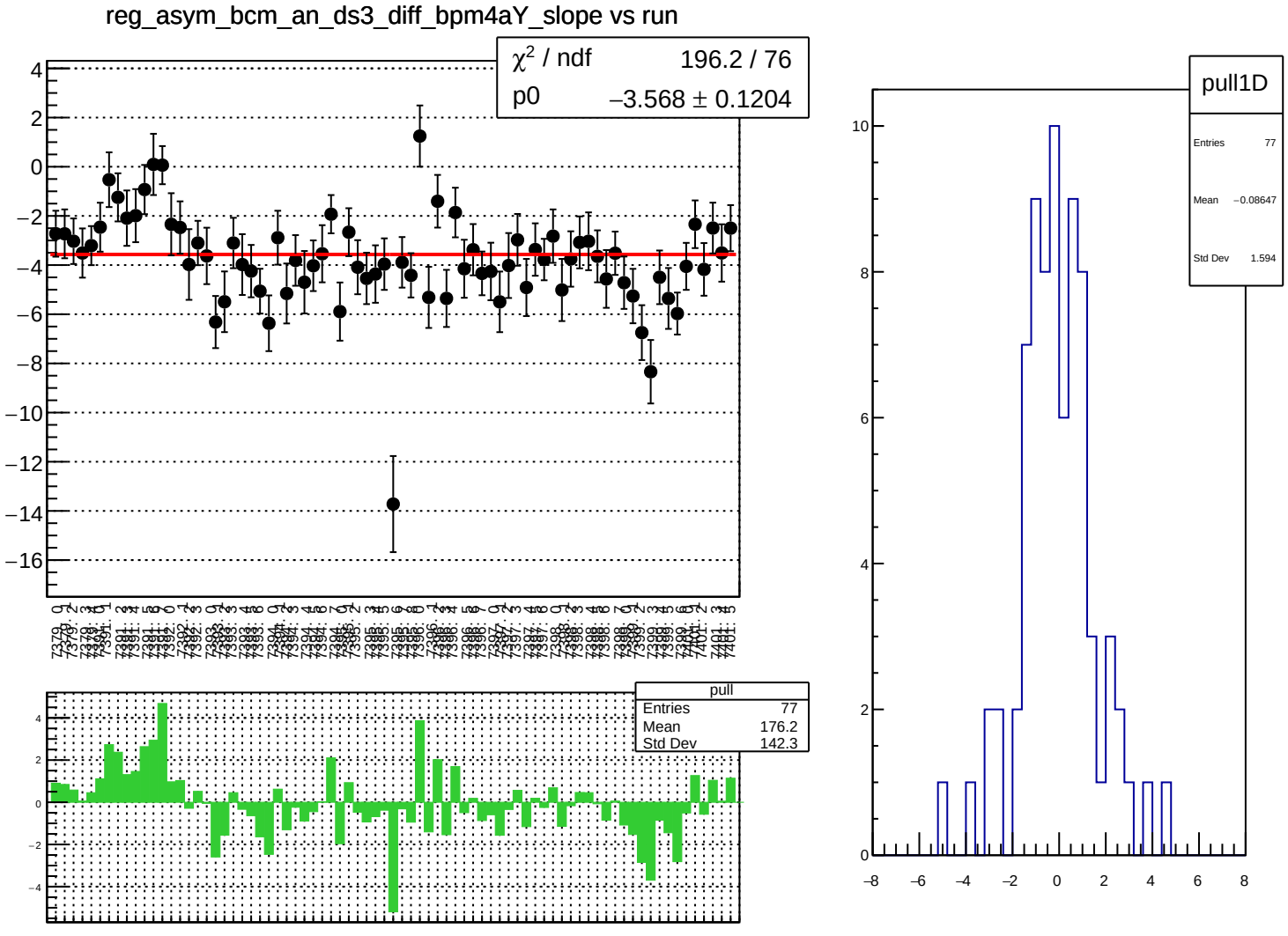

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.96 / 76
p0 −16.9 ± 1.08
pull
Entries 77
Mean −330
Std Dev 361.2
pull1D
Entries 77
Mean 0.01242
Std Dev 0.86

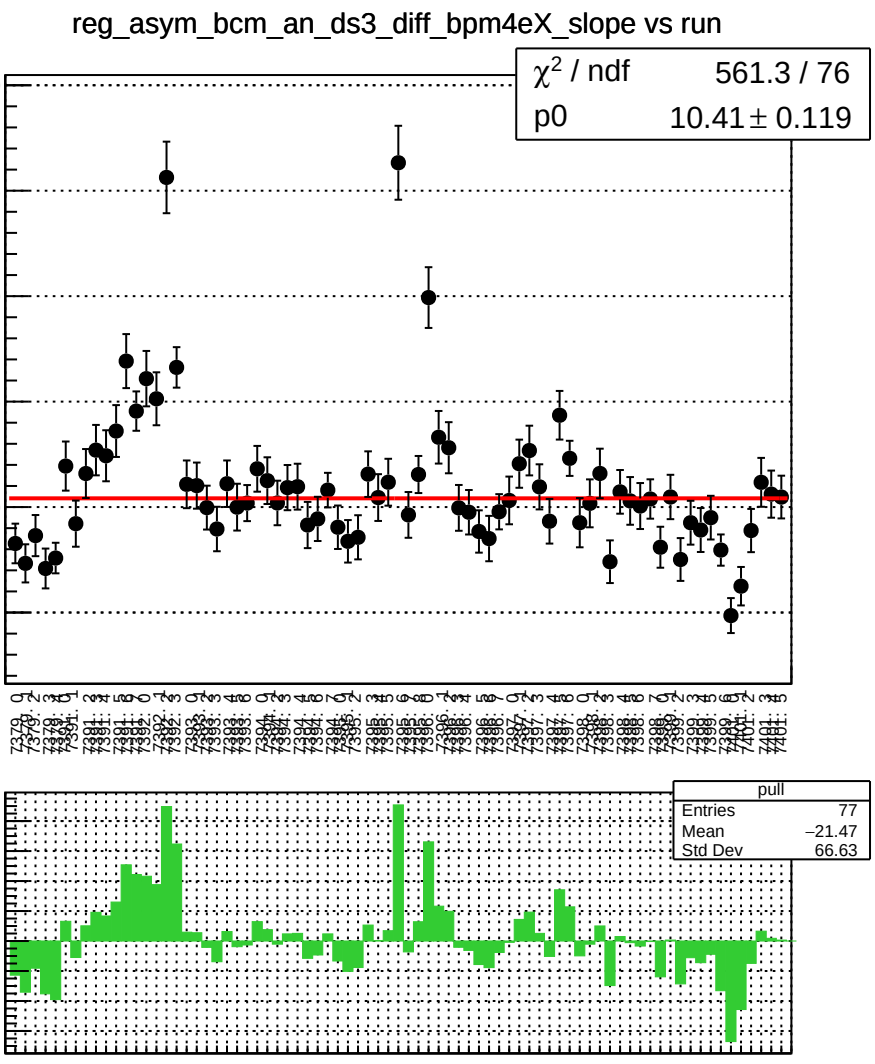

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 3950 / 76
p0 16.43 ± 0.04896
pull
Entries 77
Mean 148.2
Std Dev 128.1

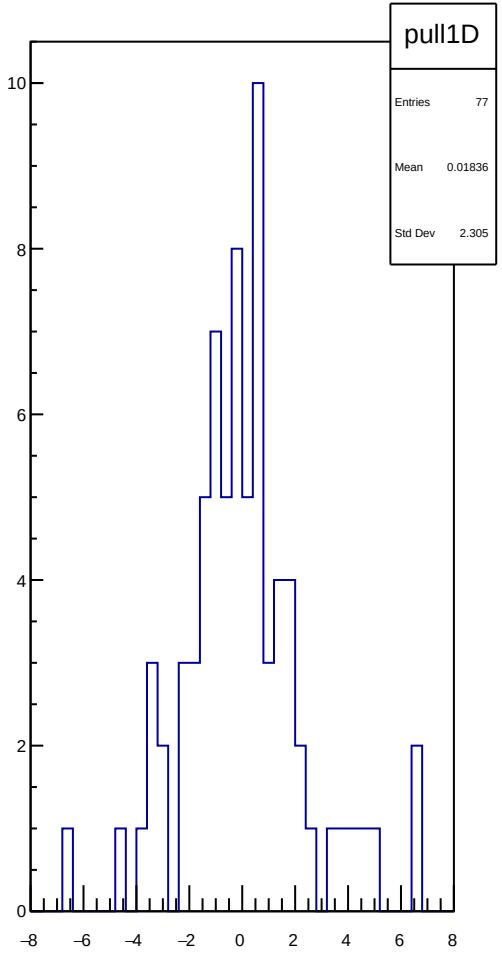

pull1D
Entries 77
Mean 0.9395
Std Dev 1.821

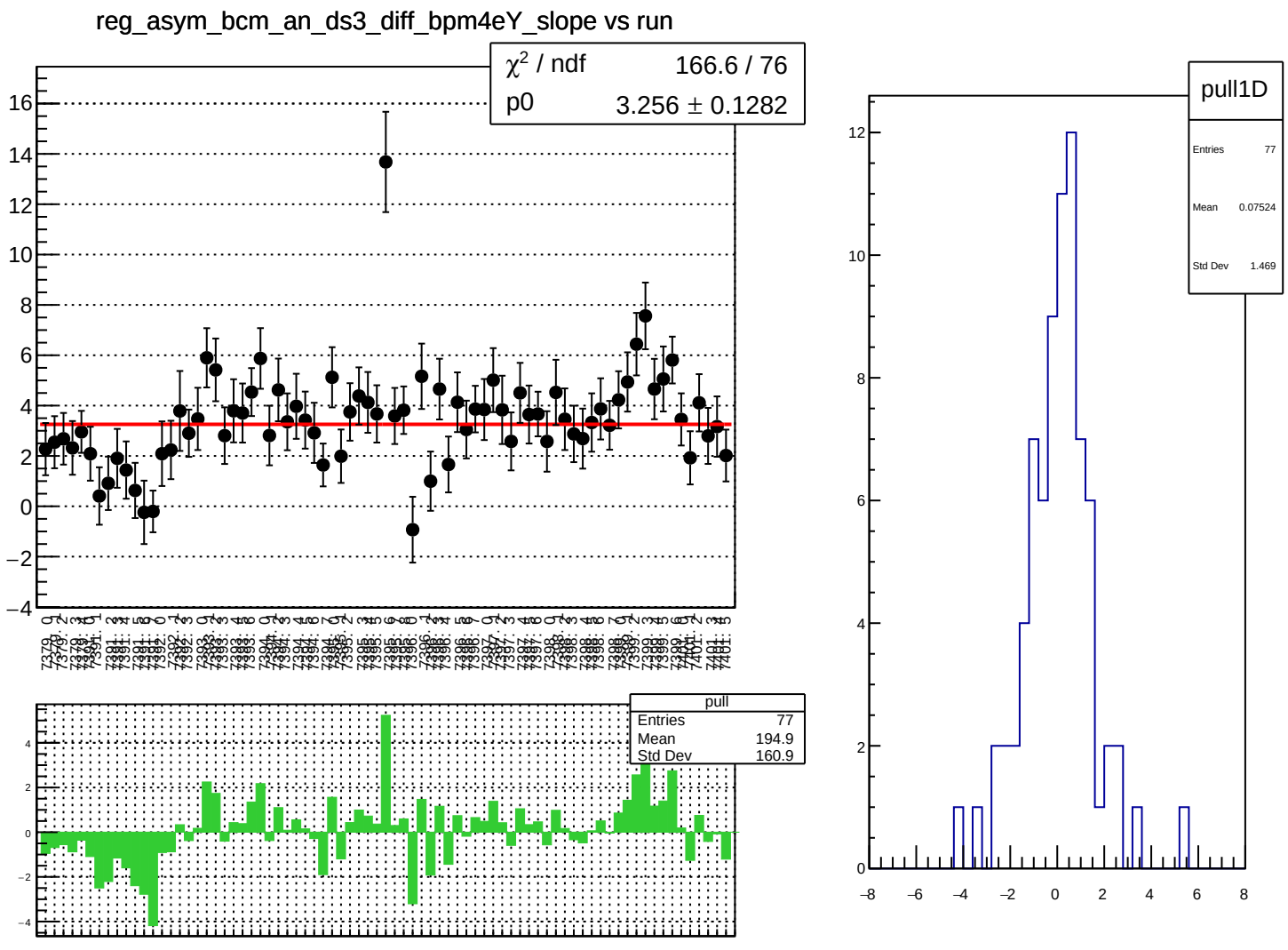

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 583.8 / 76
p0 −10.34 ± 0.1147
pull
Entries 77
Mean −16.73
Std Dev 64.41

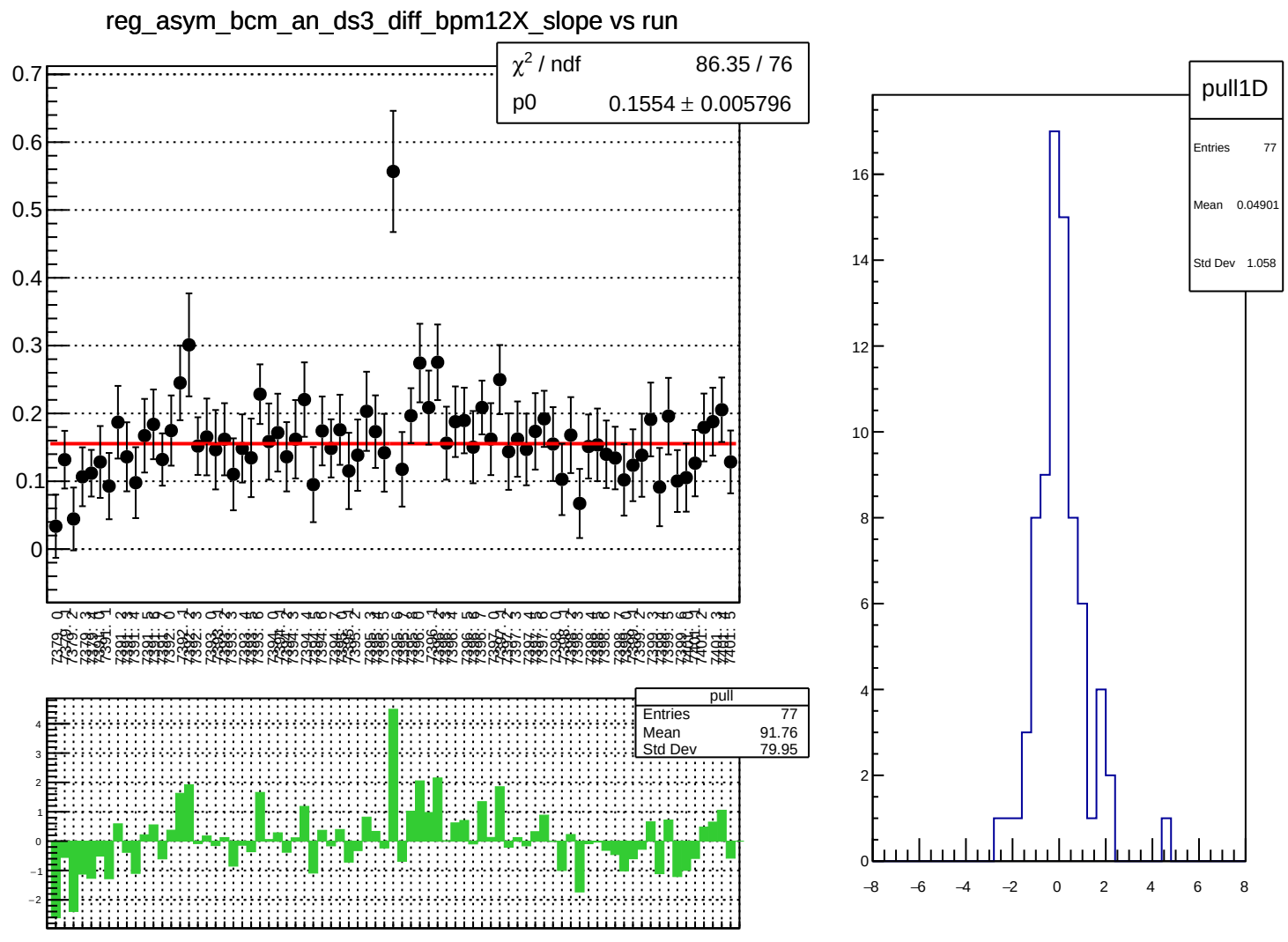

pull1D
Entries 77
Mean −0.01979
Std Dev 2.353

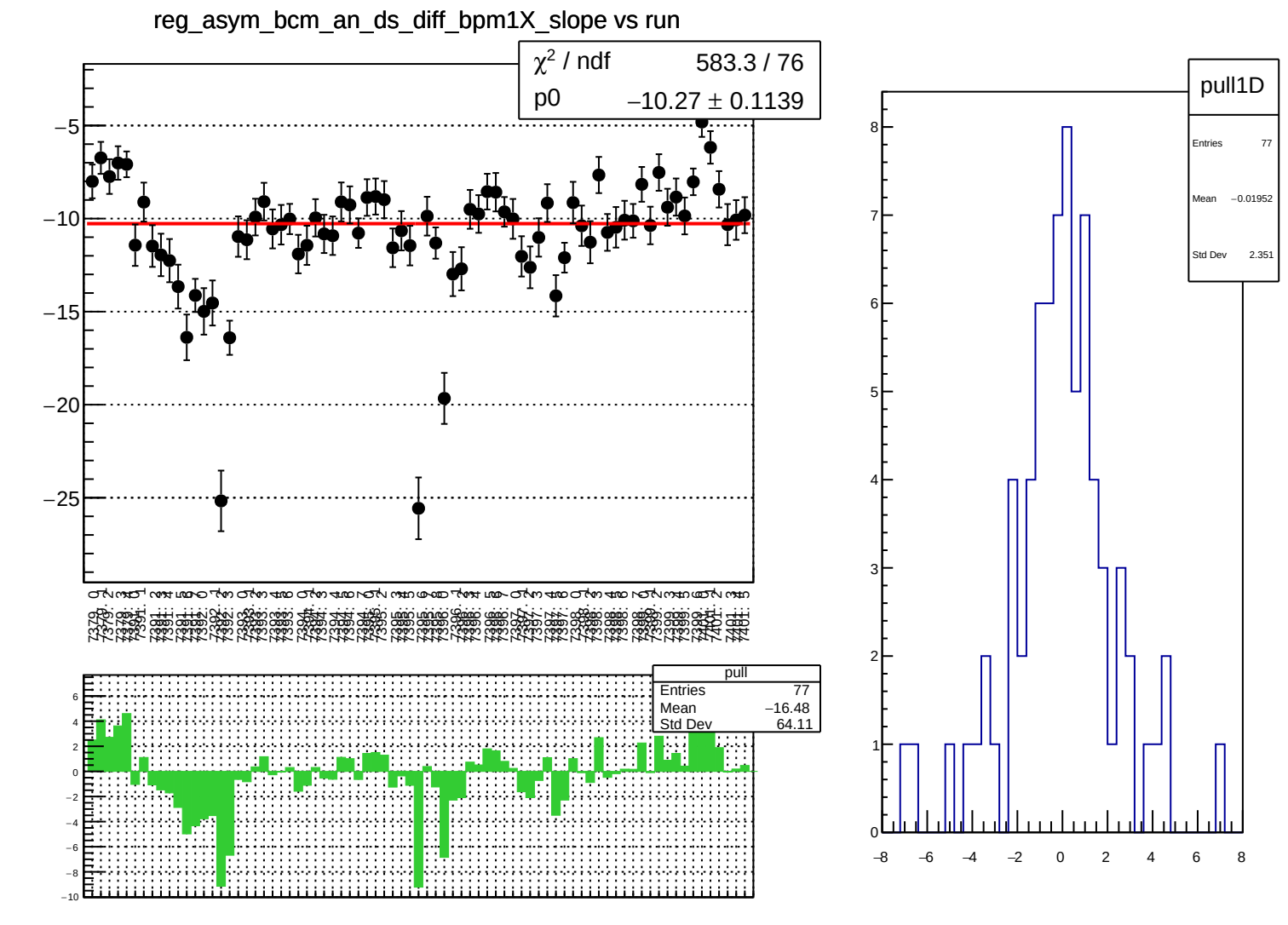

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 196.2 / 76
p0 −3.568 ± 0.1204
pull
Entries 77
Mean 176.2
Std Dev 142.3
pull1D
Entries 77
Mean −0.08647
Std Dev 1.594

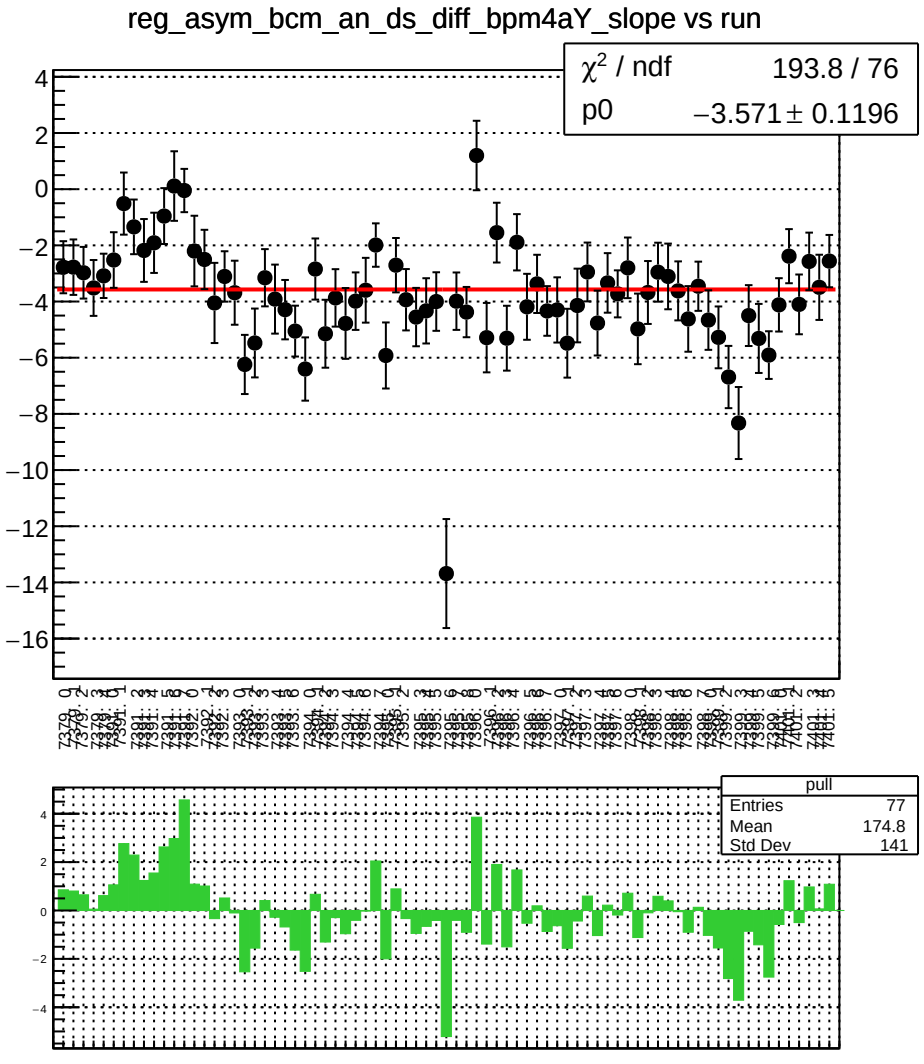

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 561.3 / 76
p0 10.41 ± 0.119
pull
Entries 77
Mean −21.47
Std Dev 66.63

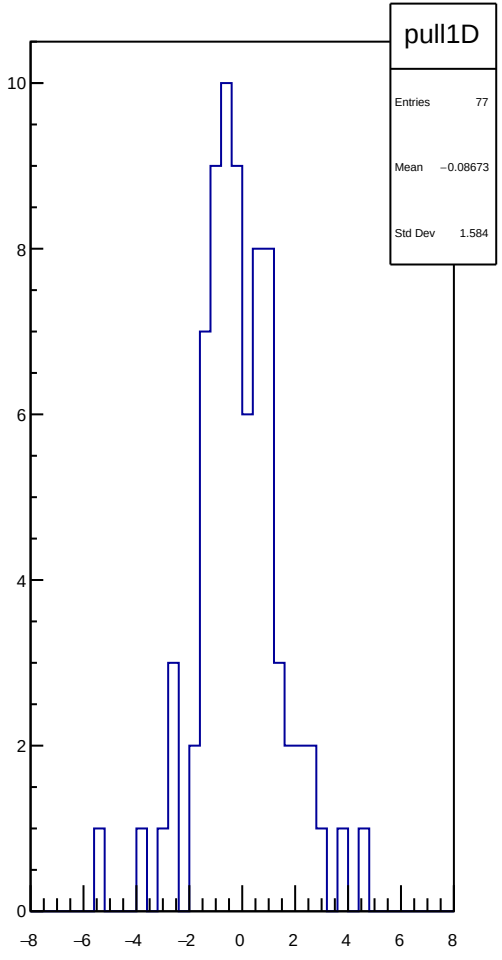

pull1D
Entries 77
Mean 0.01836
Std Dev 2.305

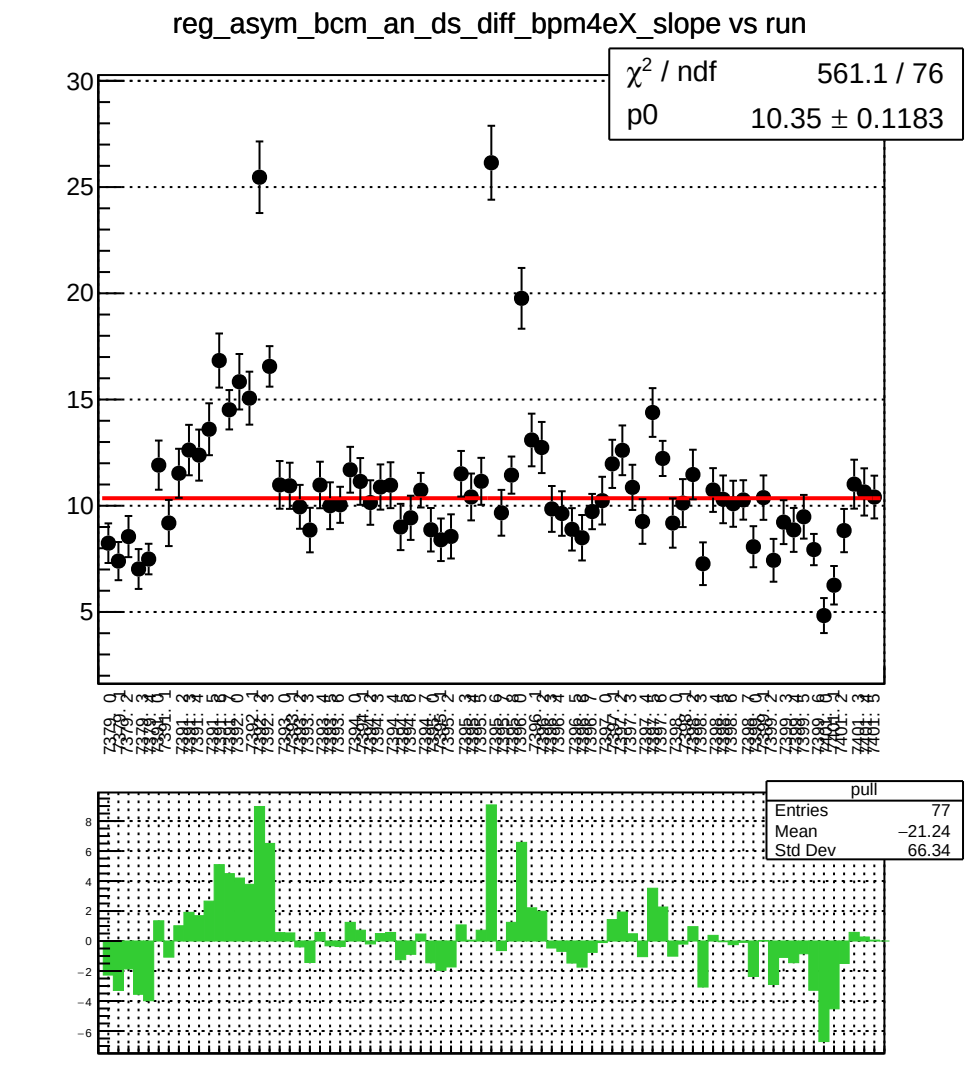

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 166.6 / 76
p0 3.256 ± 0.1282
pull
Entries 77
Mean 194.9
Std Dev 160.9
pull1D
Entries 77
Mean 0.07524
Std Dev 1.469

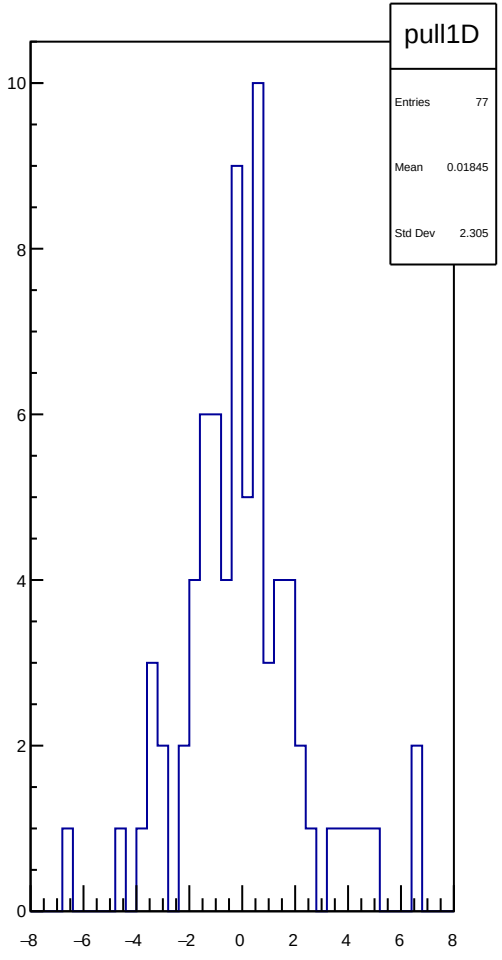

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 86.35 / 76
p0 0.1554 ± 0.005796
pull
Entries 77
Mean 91.76
Std Dev 79.95
pull1D
Entries 77
Mean 0.04901
Std Dev 1.058

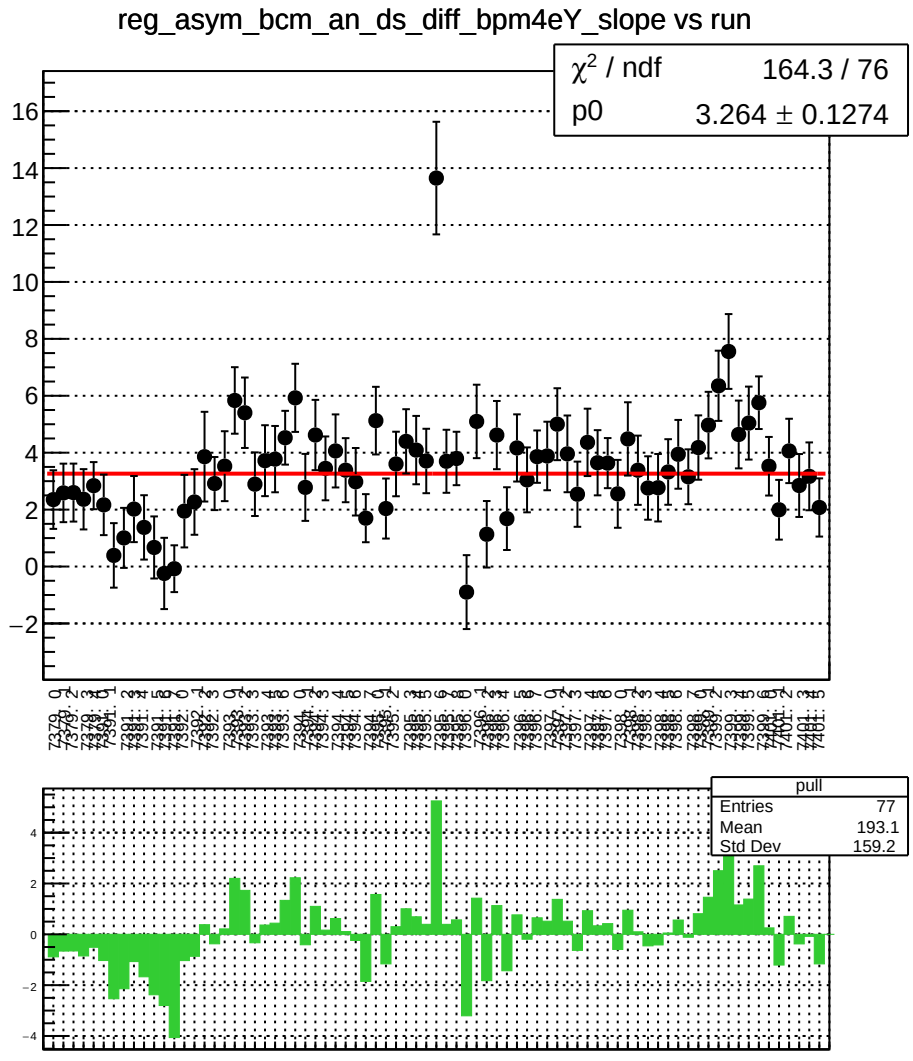

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 583.3 / 76
p0 −10.27 ± 0.1139
pull
Entries 77
Mean −16.48
Std Dev 64.11
pull1D
Entries 77
Mean −0.01952
Std Dev 2.351

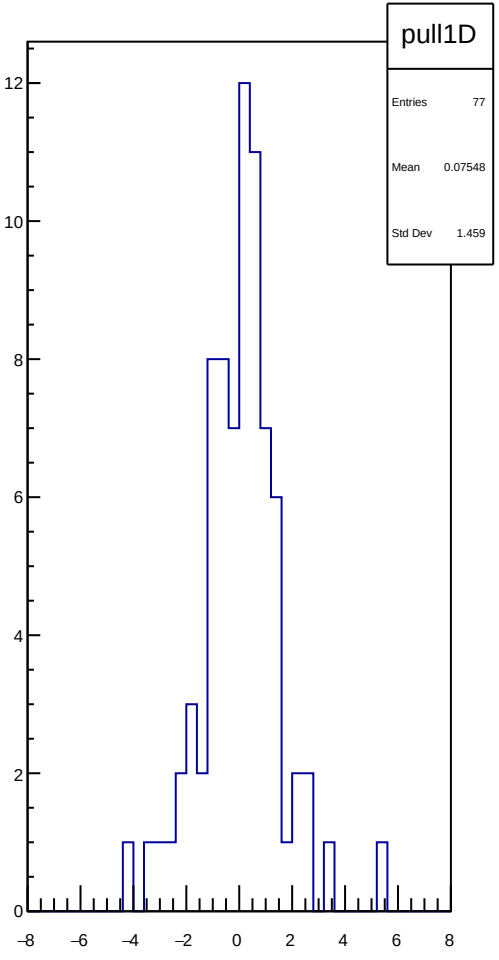

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 193.8 / 76
p0 −3.571 ± 0.1196
pull
Entries 77
Mean 174.8
Std Dev 141

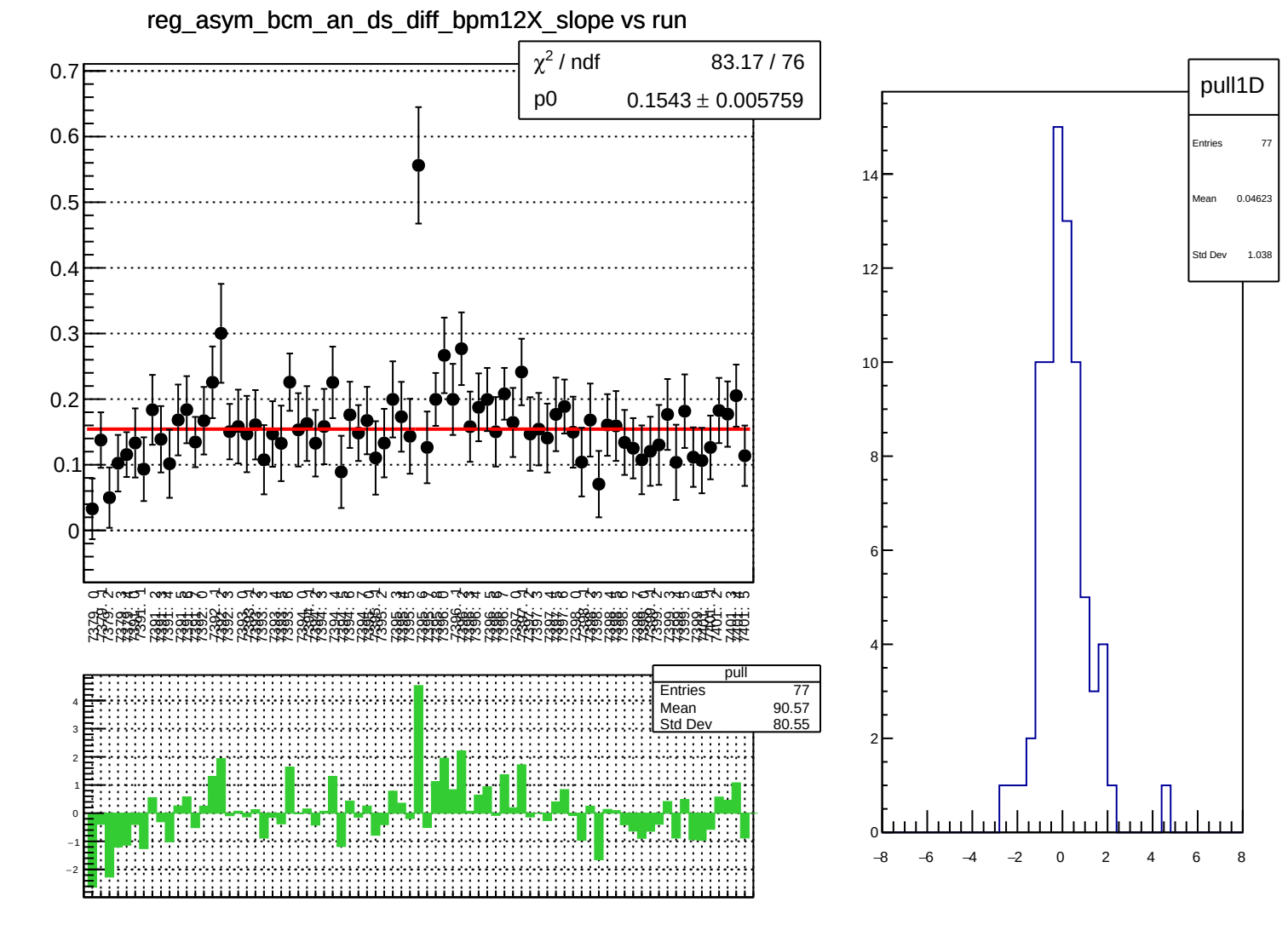

pull1D
Entries 77
Mean −0.08673
Std Dev 1.584

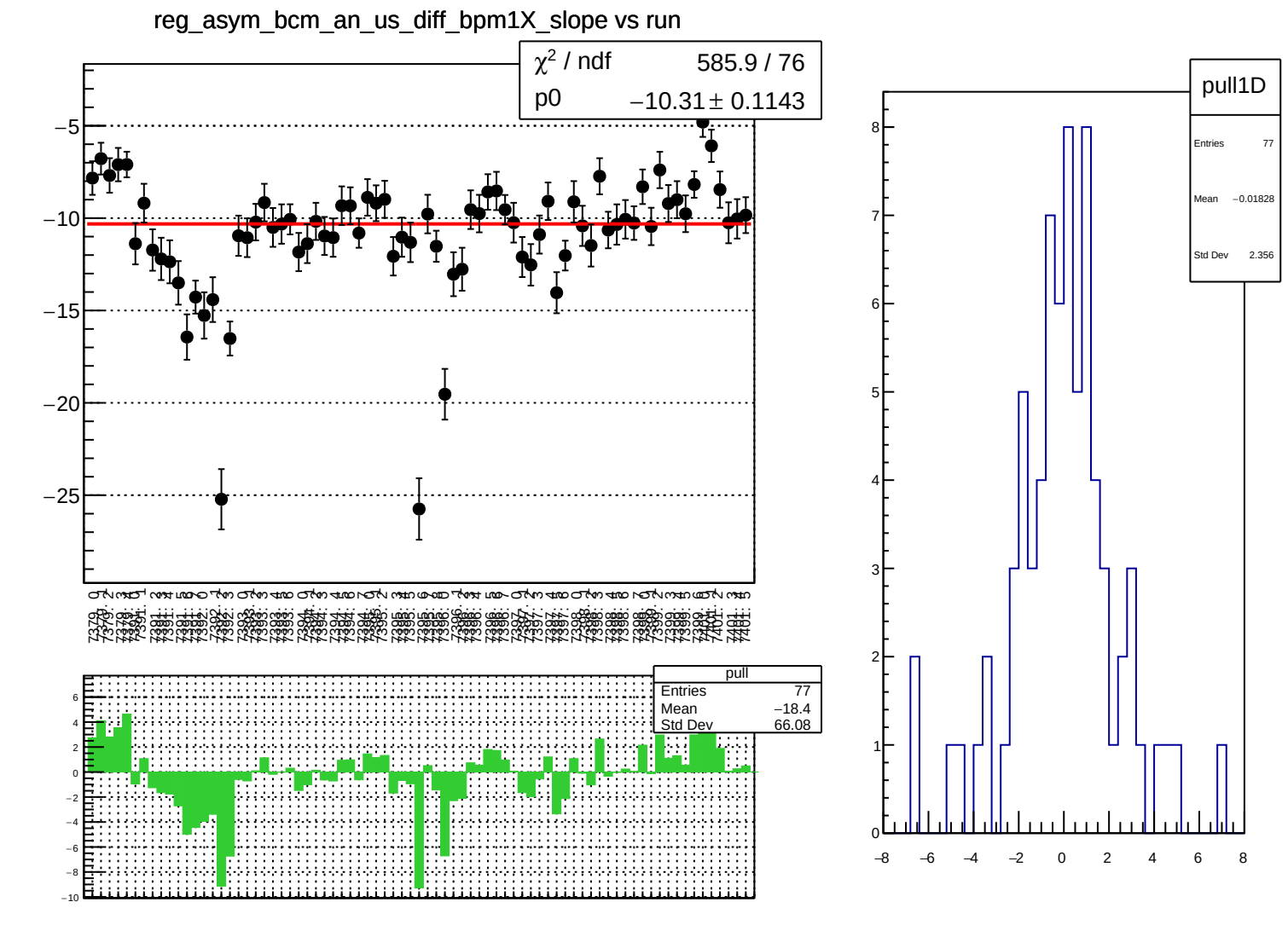

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 561.1 / 76
p0 10.35 ± 0.1183
pull
Entries 77
Mean −21.24
Std Dev 66.34

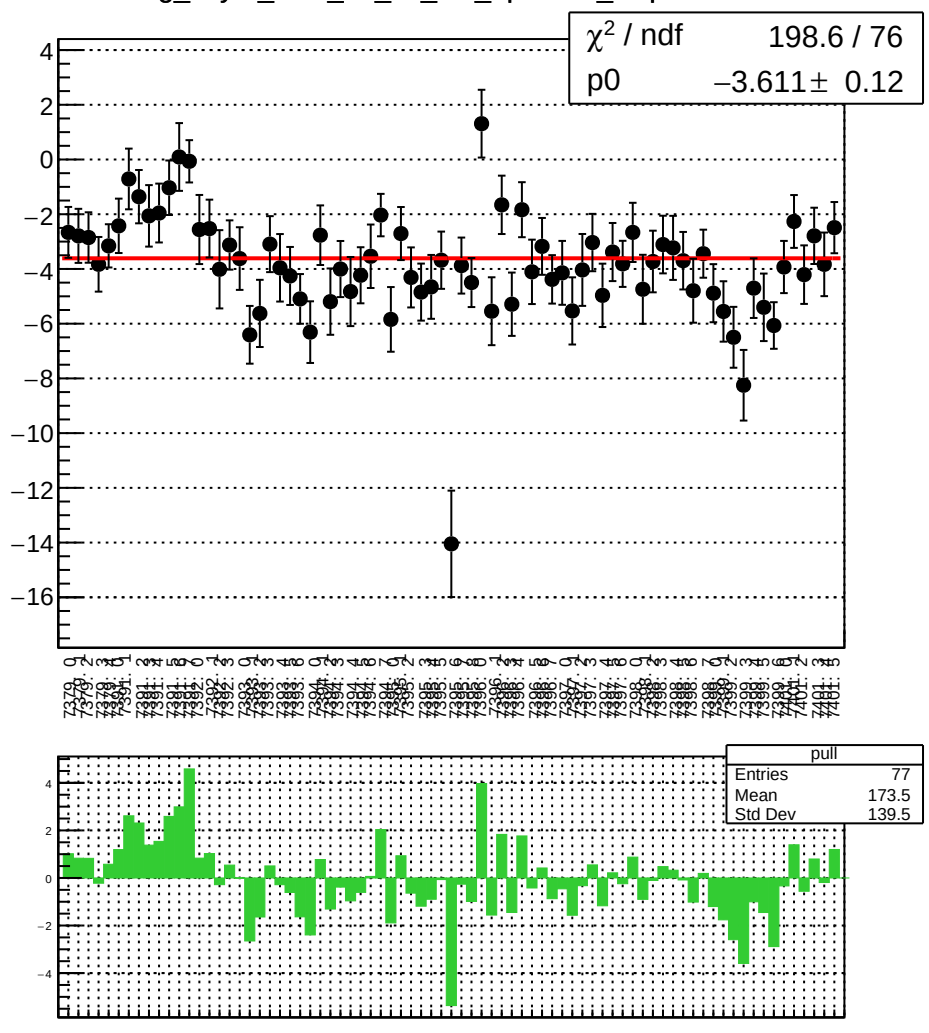

pull1D
Entries 77
Mean 0.01845
Std Dev 2.305

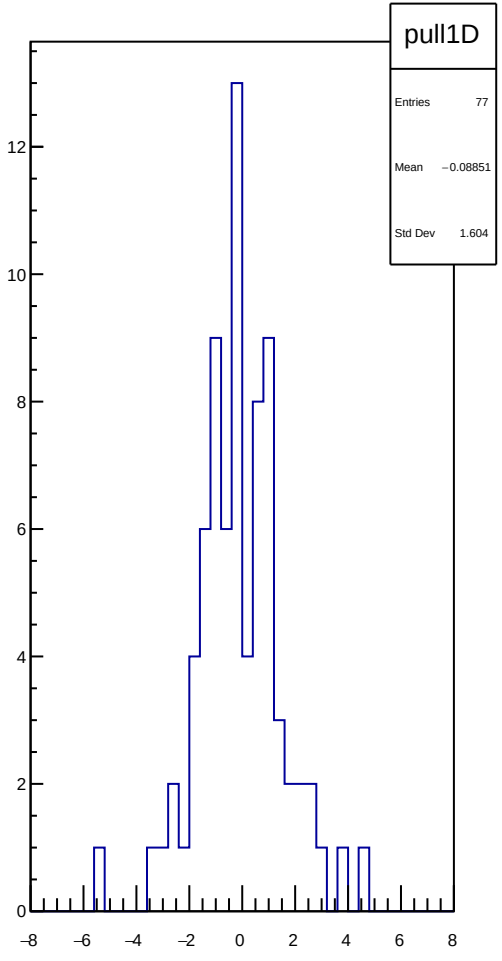

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 164.3 / 76
p0 3.264 ± 0.1274
pull
Entries 77
Mean 193.1
Std Dev 159.2

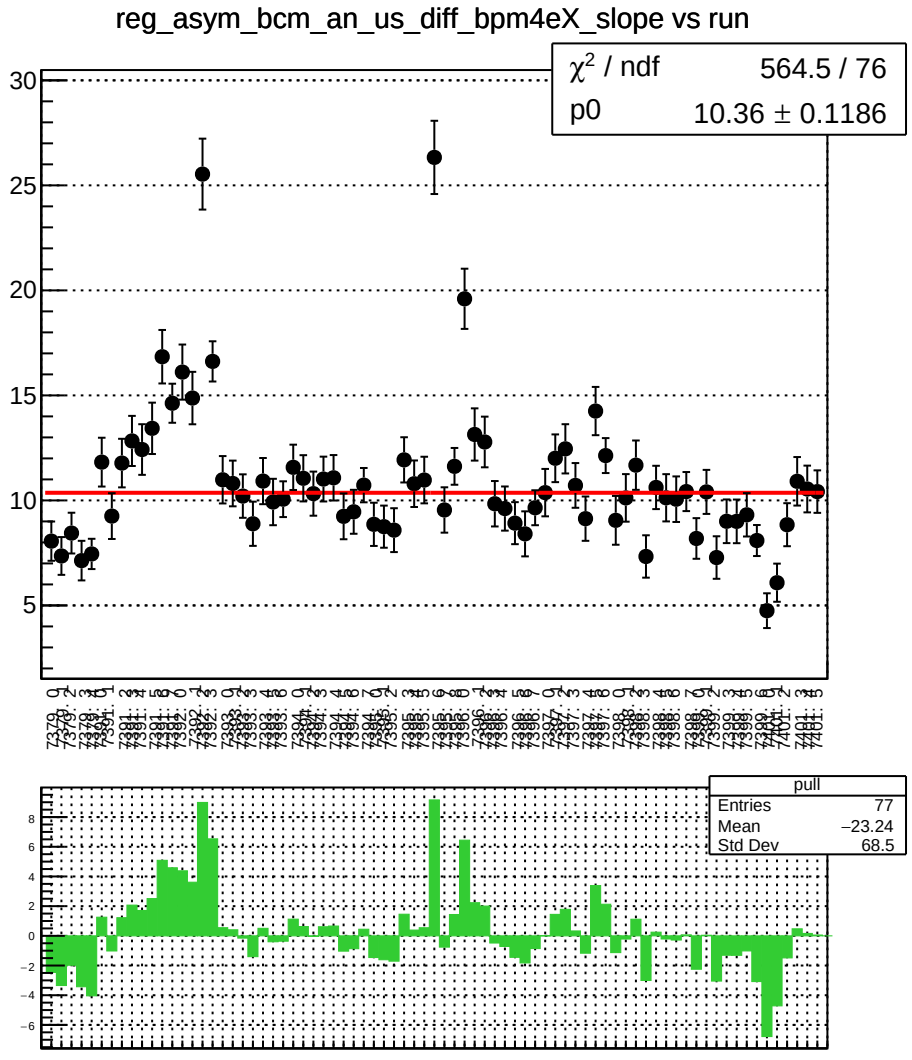

pull1D
Entries 77
Mean 0.07548
Std Dev 1.459

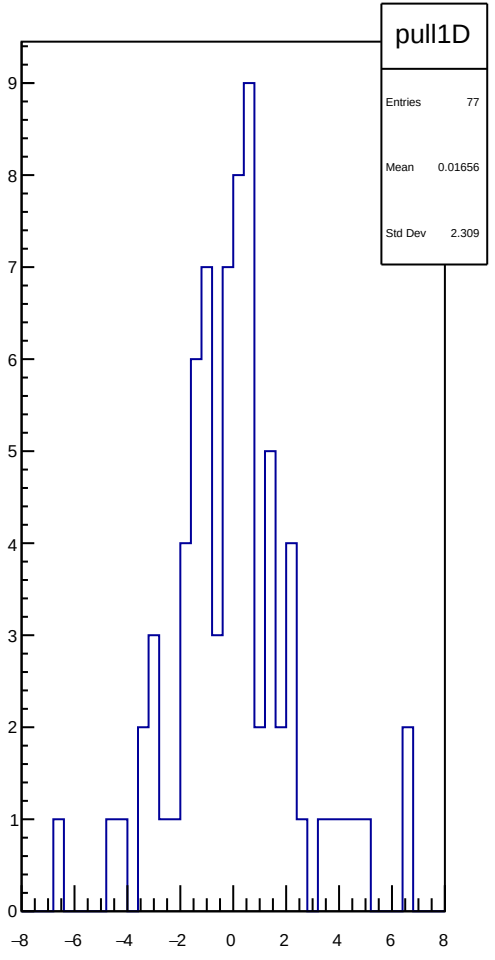

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 83.17 / 76
p0 0.1543 ± 0.005759
pull
Entries 77
Mean 90.57
Std Dev 80.55
pull1D
Entries 77
Mean 0.04623
Std Dev 1.038

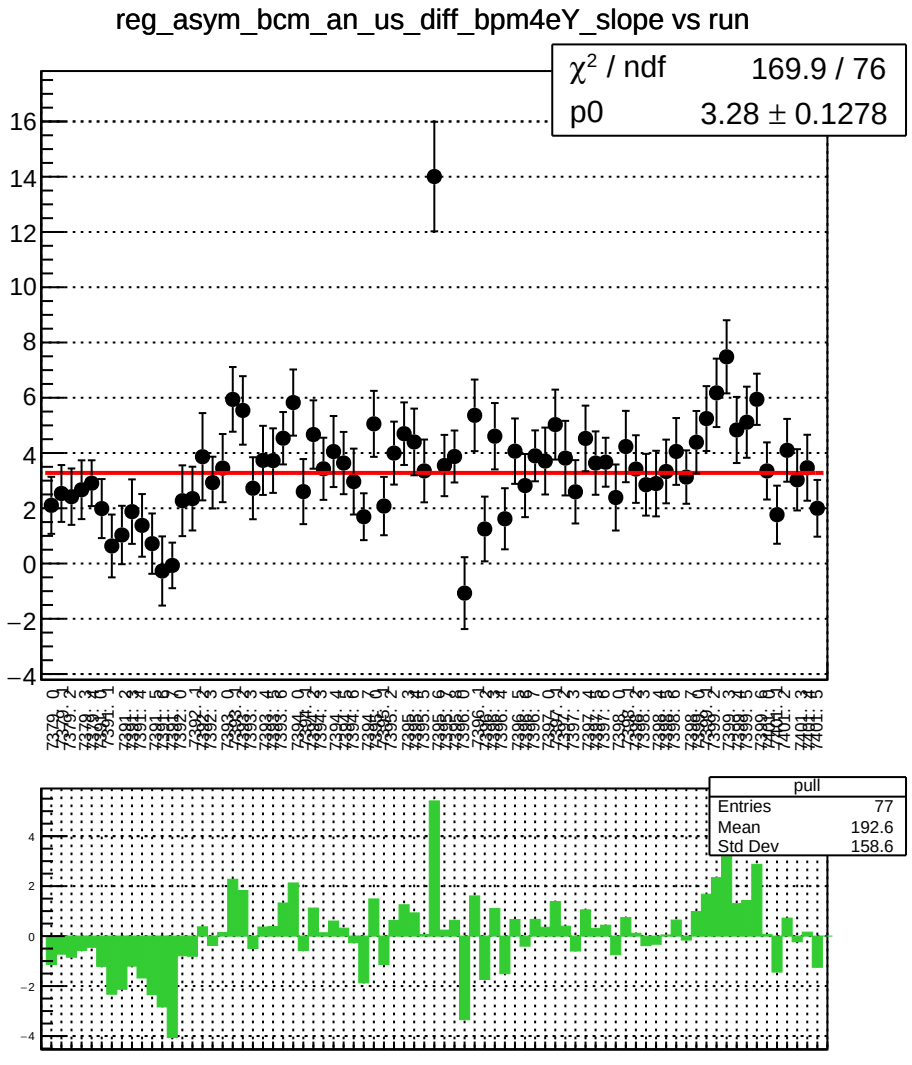

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 585.9 / 76
p0 −10.31 ± 0.1143
pull
Entries 77
Mean −18.4
Std Dev 66.08
pull1D
Entries 77
Mean −0.01828
Std Dev 2.356

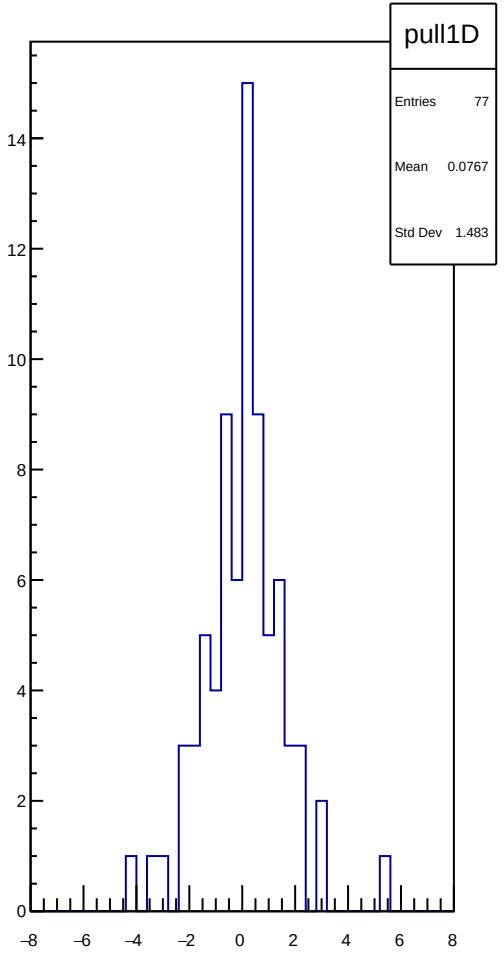

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 198.6 / 76
p0 −3.611 ± 0.12
pull
Entries 77
Mean 173.5
Std Dev 139.5

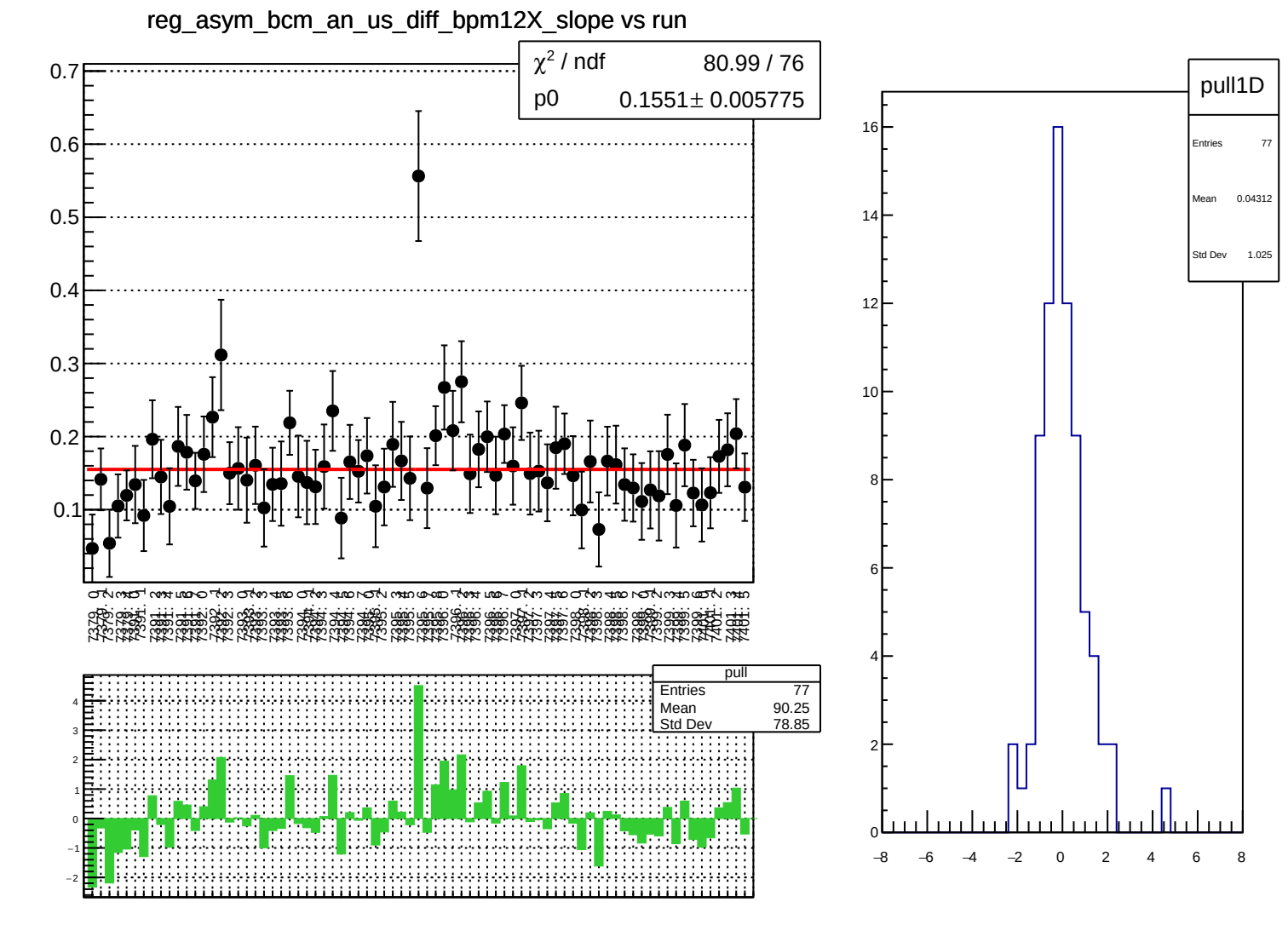

pull1D
Entries 77
Mean −0.08851
Std Dev 1.604

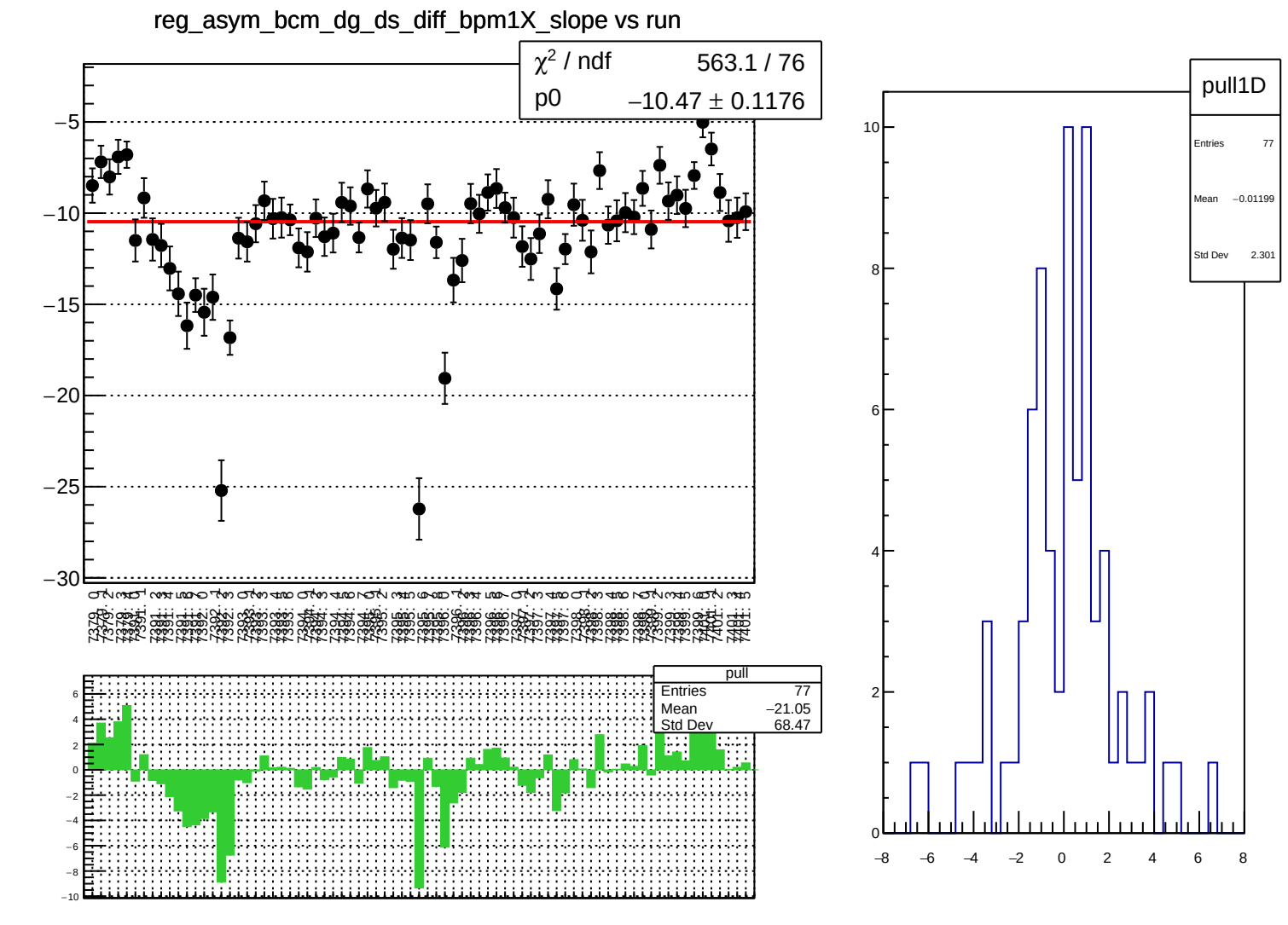

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 564.5 / 76
p0 10.36 ± 0.1186
pull
Entries 77
Mean −23.24
Std Dev 68.5

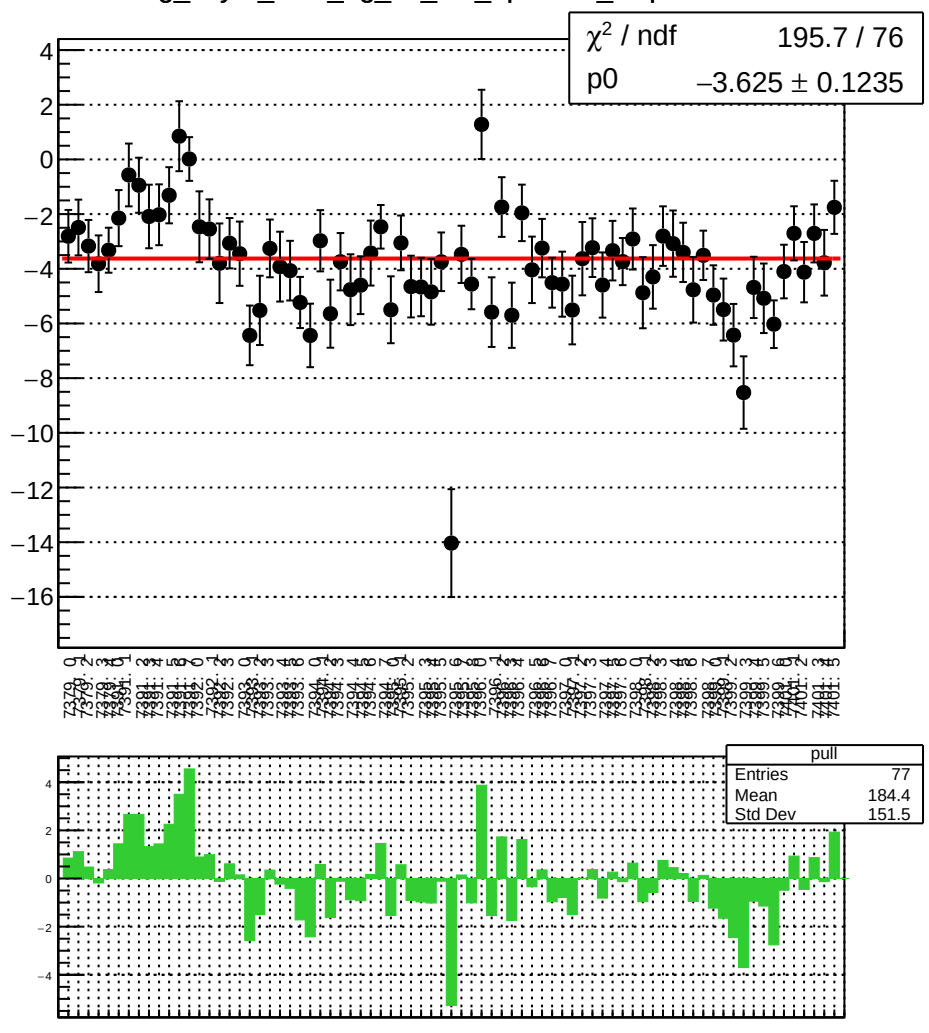

pull1D
Entries 77
Mean 0.01656
Std Dev 2.309

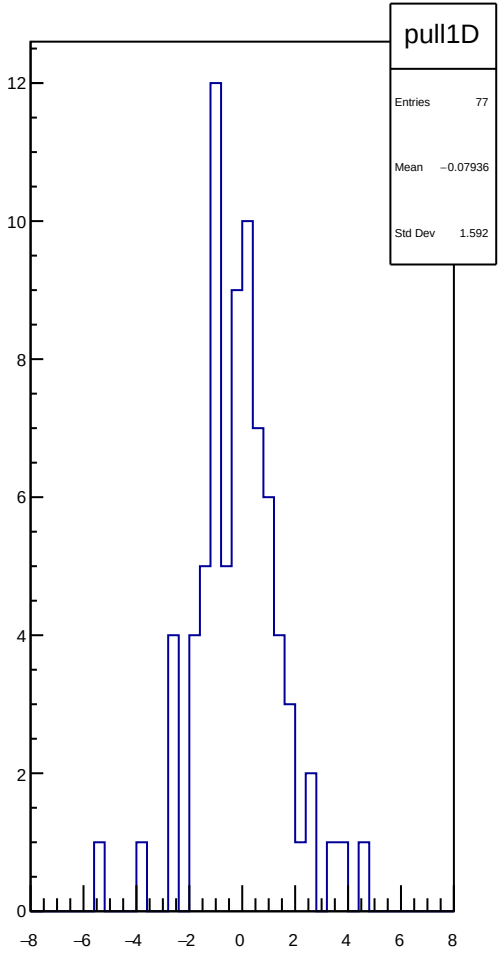

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 169.9 / 76
p0 3.28 ± 0.1278
pull
Entries 77
Mean 192.6
Std Dev 158.6

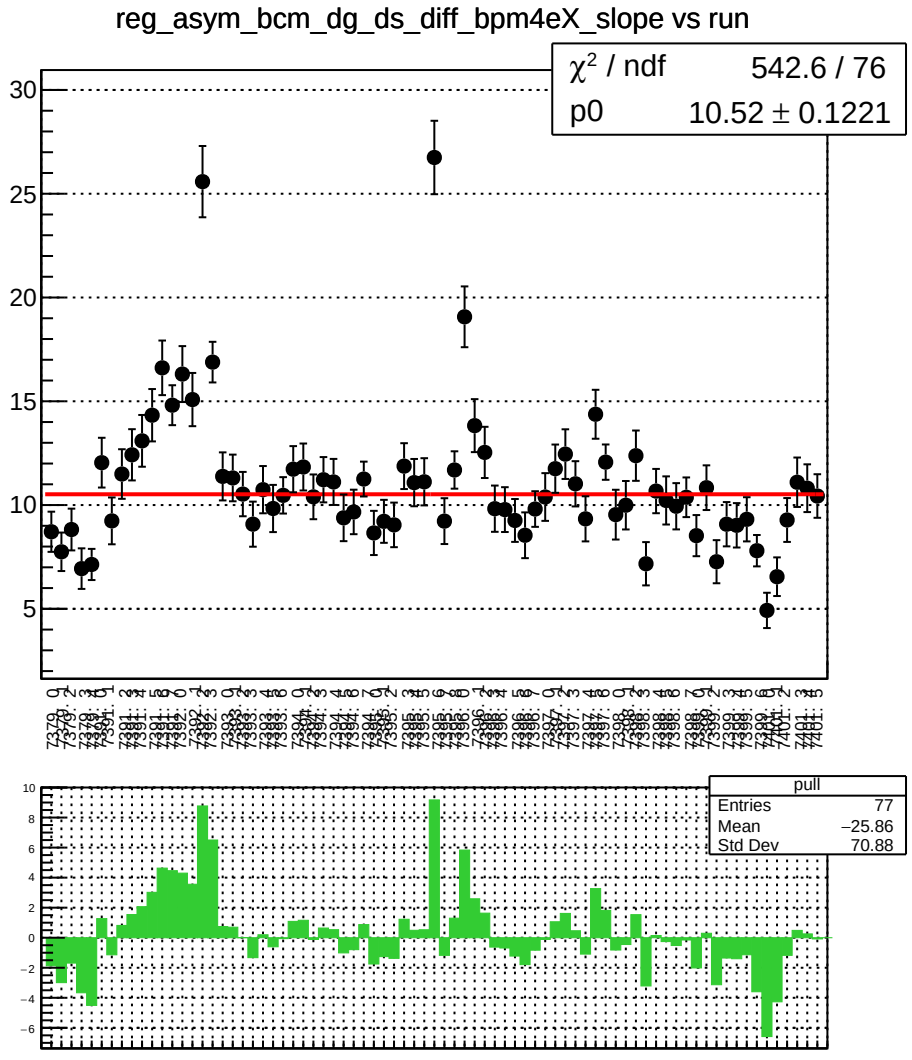

pull1D
Entries 77
Mean 0.0767
Std Dev 1.483

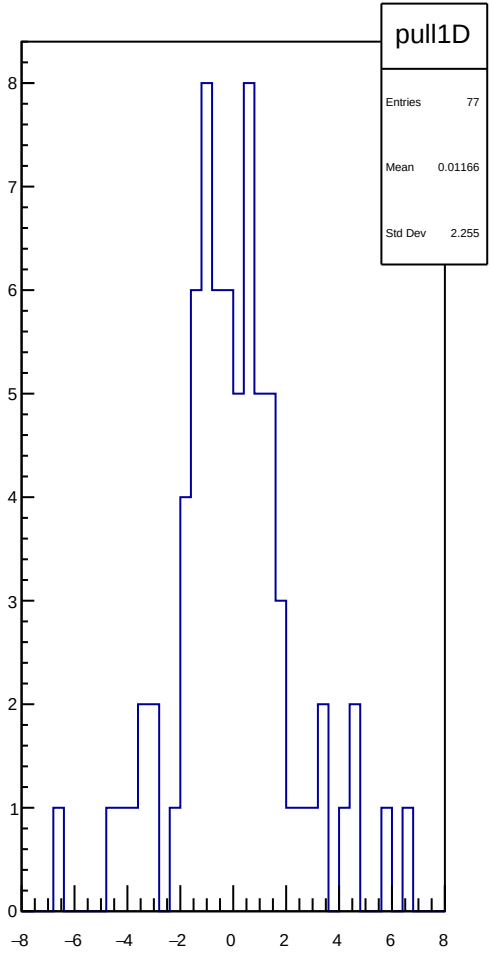

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 80.99 / 76
p0 0.1551± 0.005775
pull
Entries 77
Mean 90.25
Std Dev 78.85
pull1D
Entries 77
Mean 0.04312
Std Dev 1.025

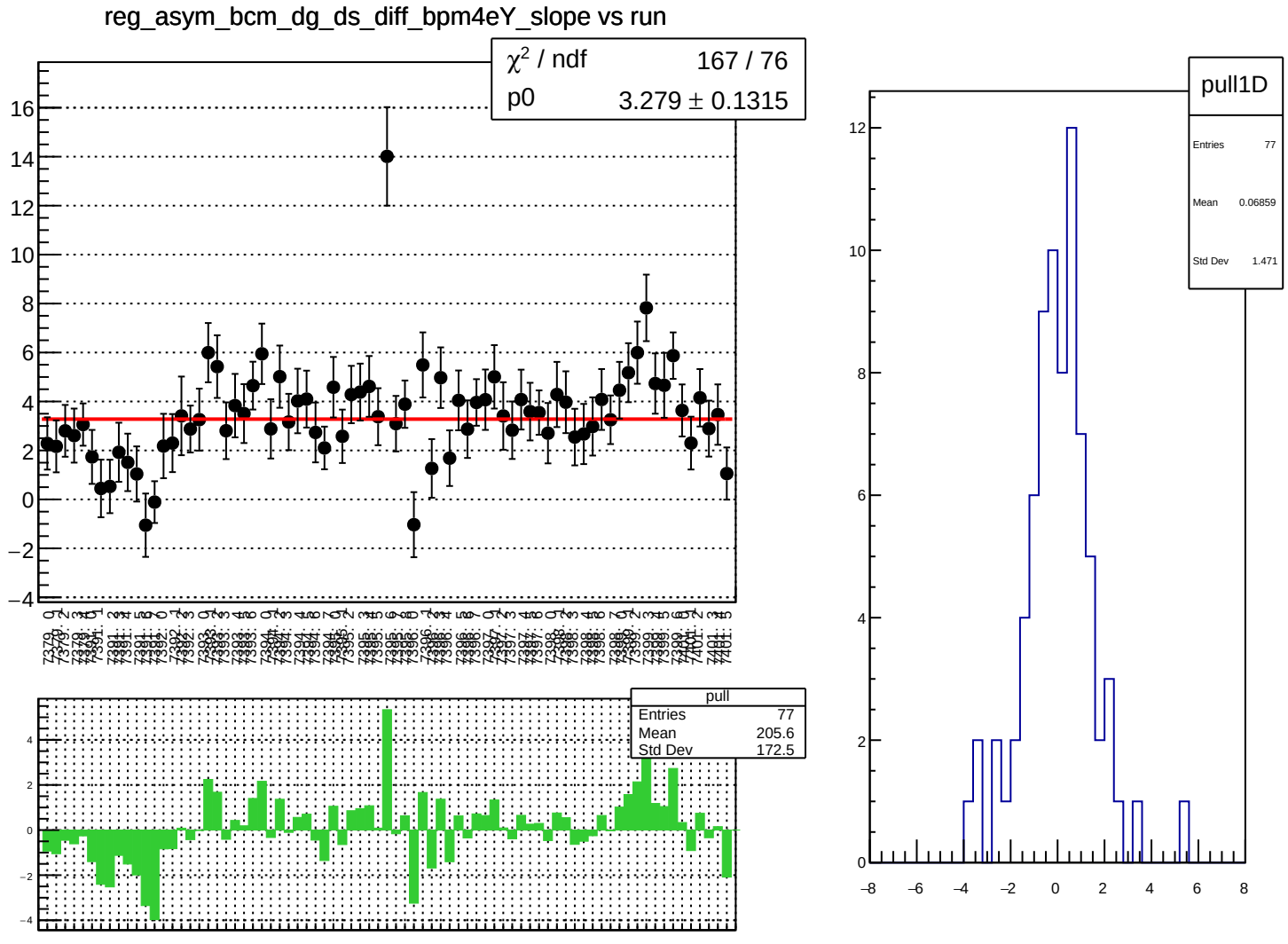

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 563.1 / 76
p0 −10.47 ± 0.1176
pull
Entries 77
Mean −21.05
Std Dev 68.47
pull1D
Entries 77
Mean −0.01199
Std Dev 2.301

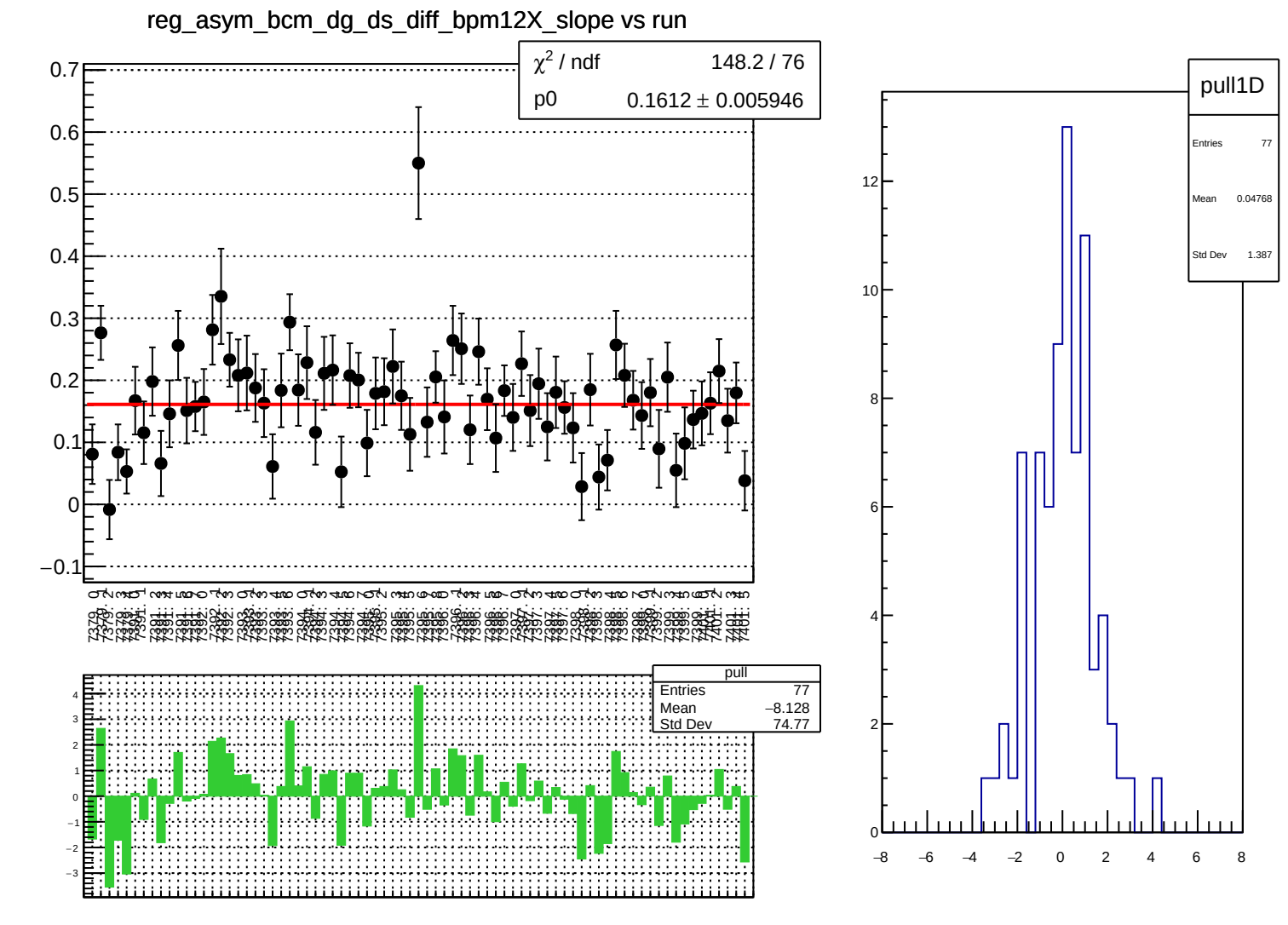

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 195.7 / 76
p0 −3.625 ± 0.1235
pull
Entries 77
Mean 184.4
Std Dev 151.5

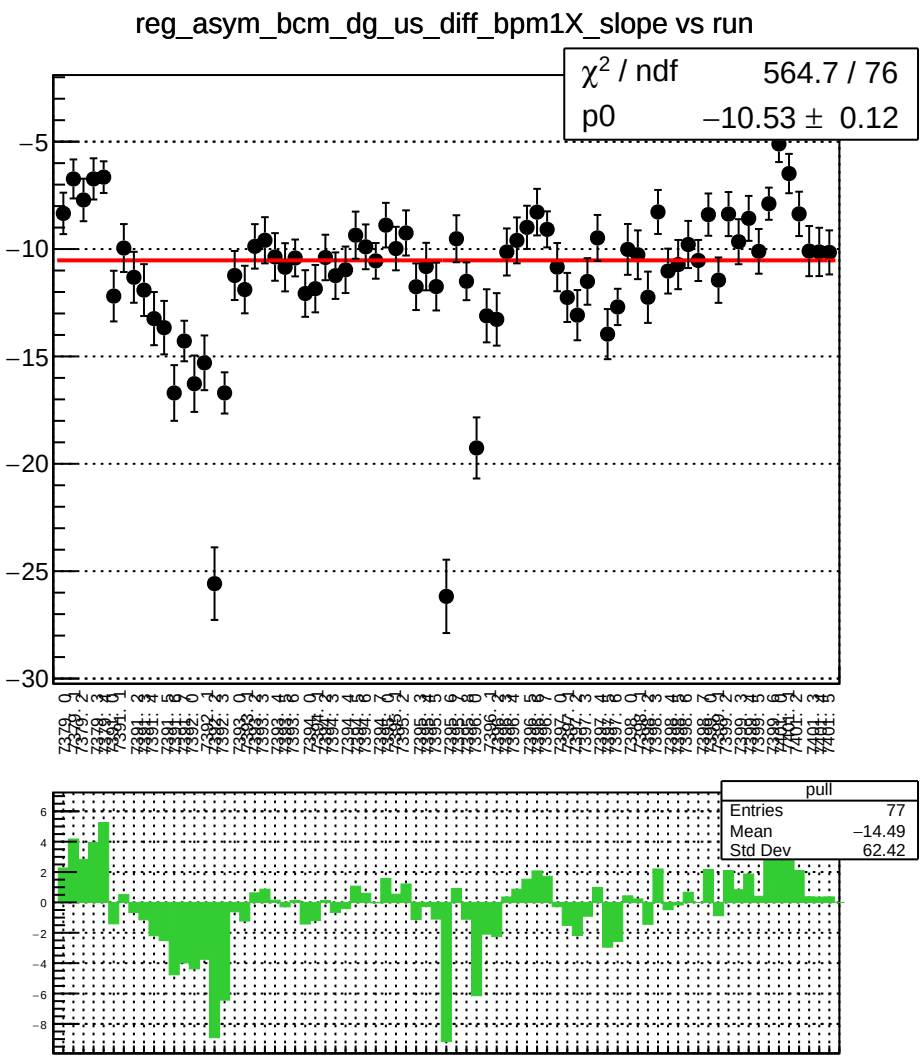

pull1D
Entries 77
Mean −0.07936
Std Dev 1.592

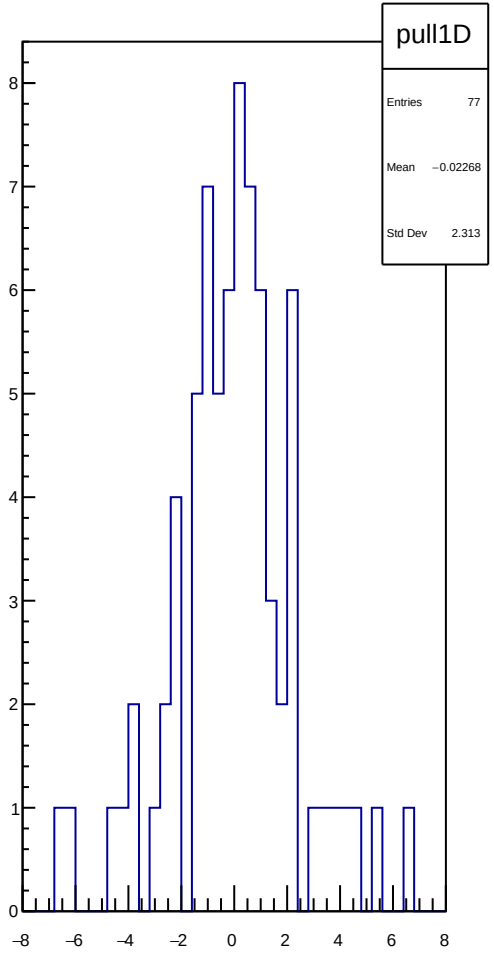

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 542.6 / 76
p0 10.52 ± 0.1221
pull
Entries 77
Mean −25.86
Std Dev 70.88

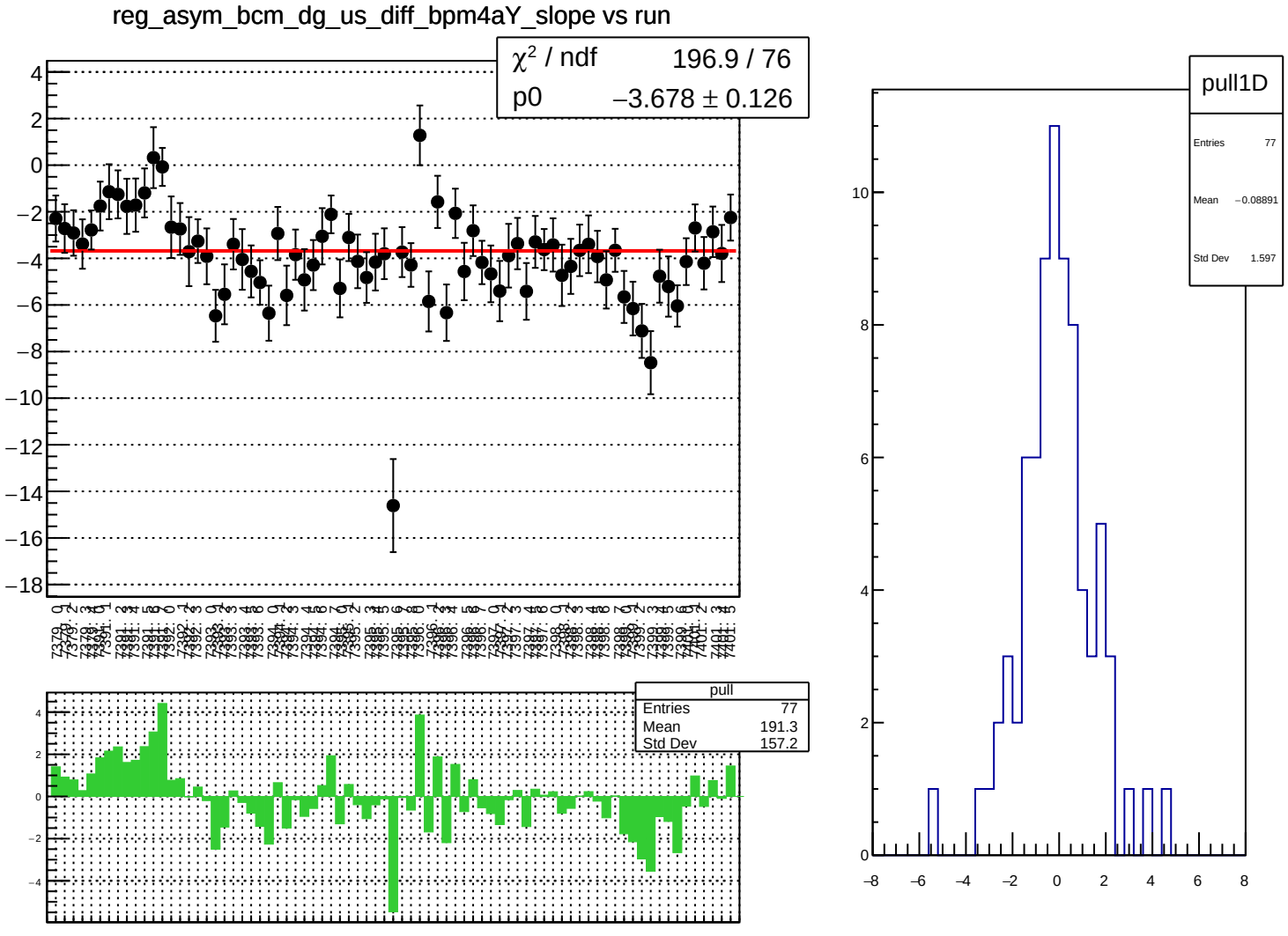

pull1D
Entries 77
Mean 0.01166
Std Dev 2.255

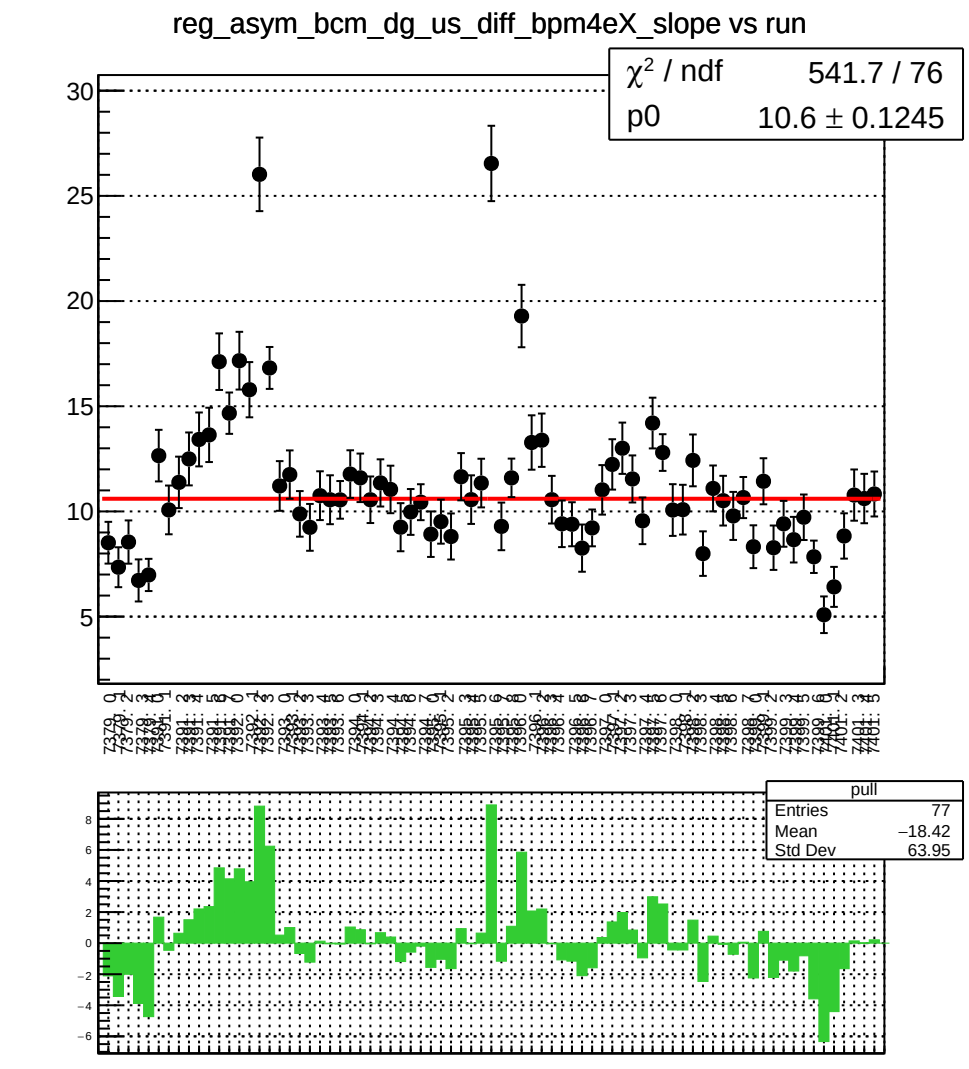

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 167 / 76
p0 3.279 ± 0.1315
pull
Entries 77
Mean 205.6
Std Dev 172.5
pull1D
Entries 77
Mean 0.06859
Std Dev 1.471

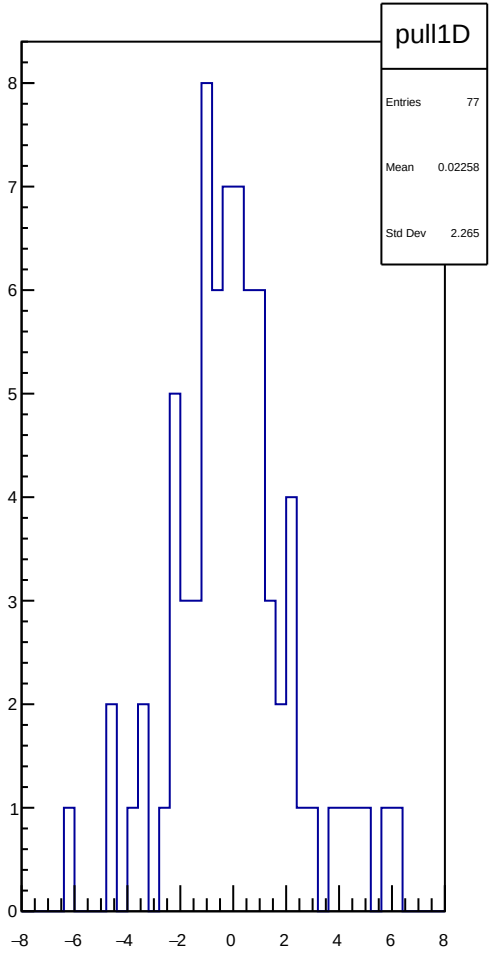

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 148.2 / 76
p0 0.1612 ± 0.005946
pull
Entries 77
Mean −8.128
Std Dev 74.77
pull1D
Entries 77
Mean 0.04768
Std Dev 1.387

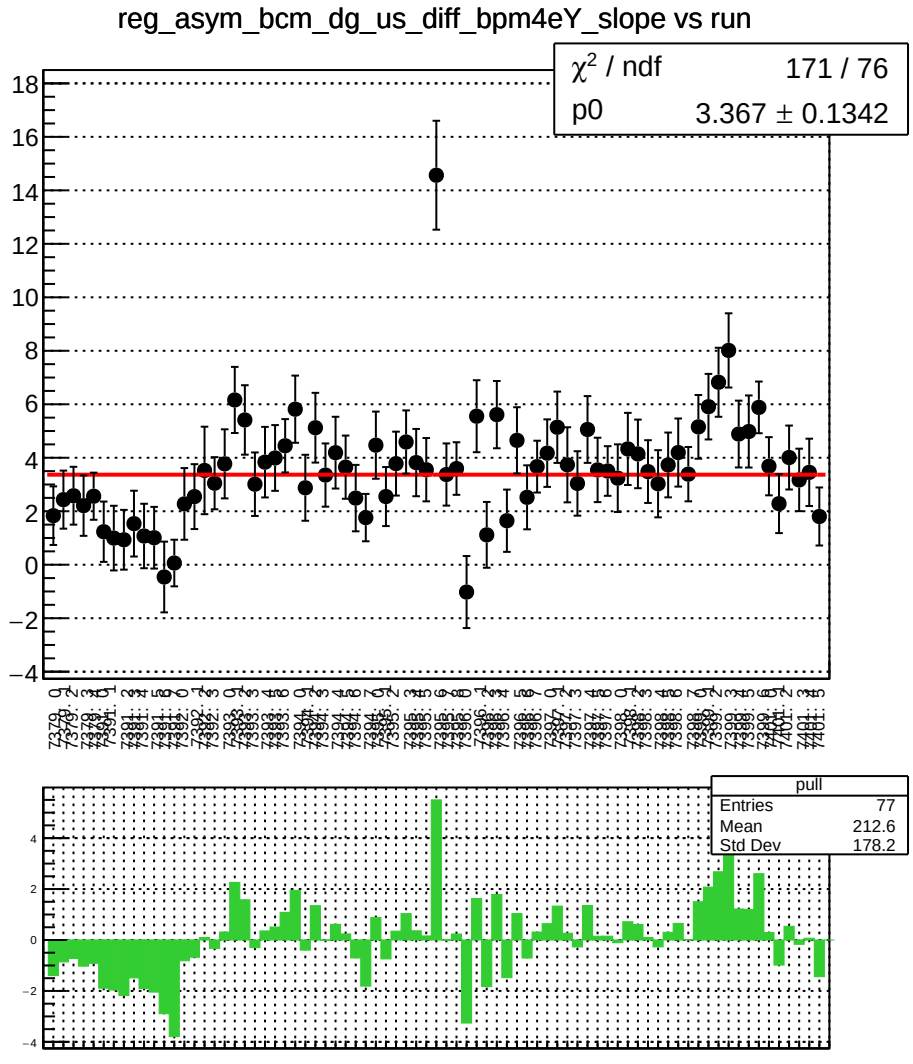

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 564.7 / 76
p0 −10.53 ± 0.12
pull
Entries 77
Mean −14.49
Std Dev 62.42

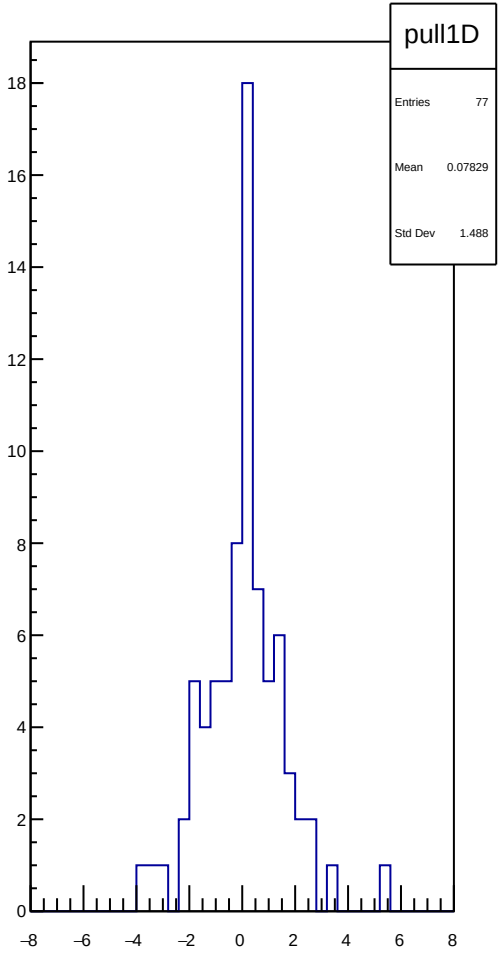

pull1D
Entries 77
Mean −0.02268
Std Dev 2.313

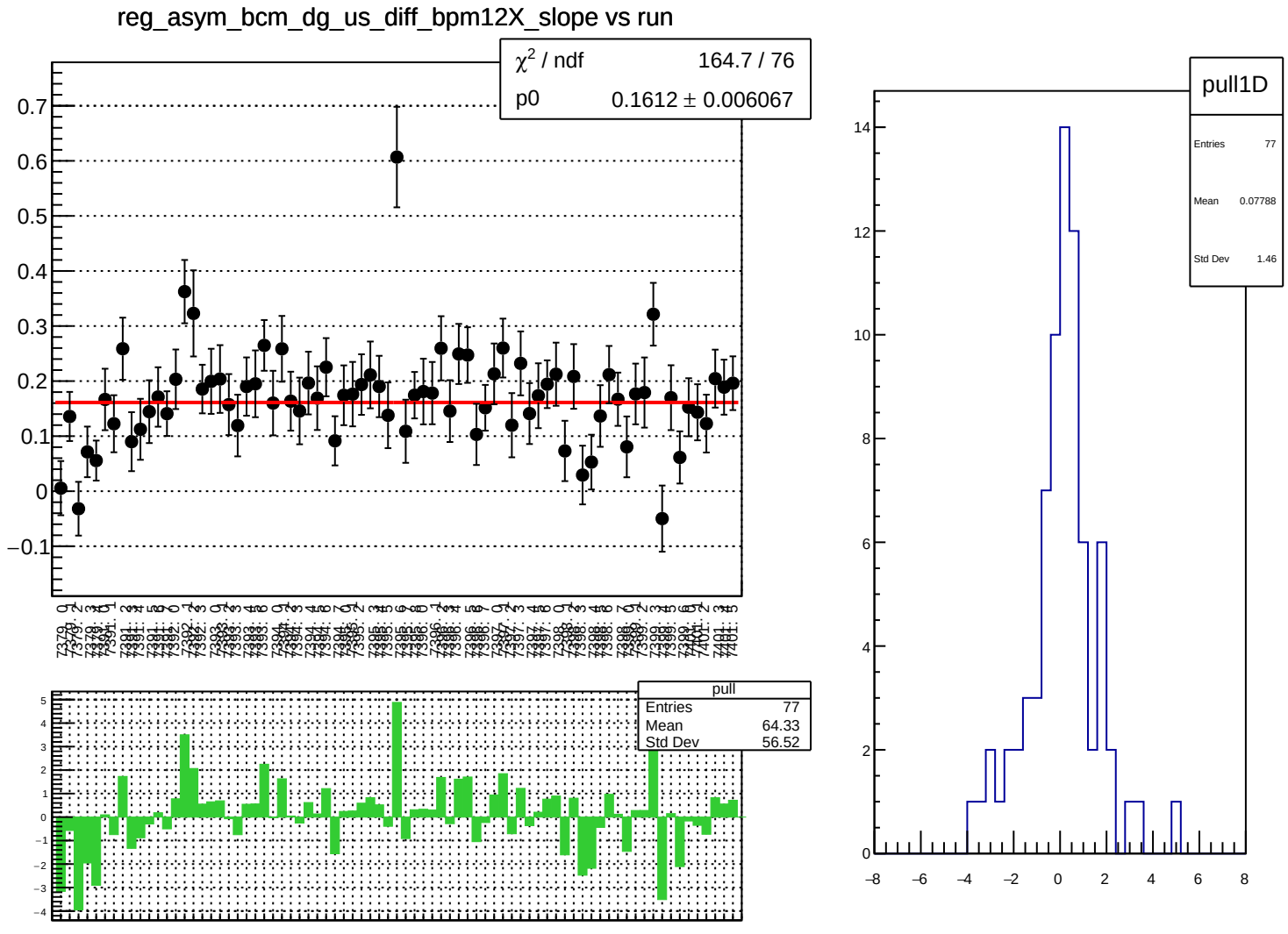

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 196.9 / 76
p0 −3.678 ± 0.126
pull
Entries 77
Mean 191.3
Std Dev 157.2
pull1D
Entries 77
Mean −0.08891
Std Dev 1.597

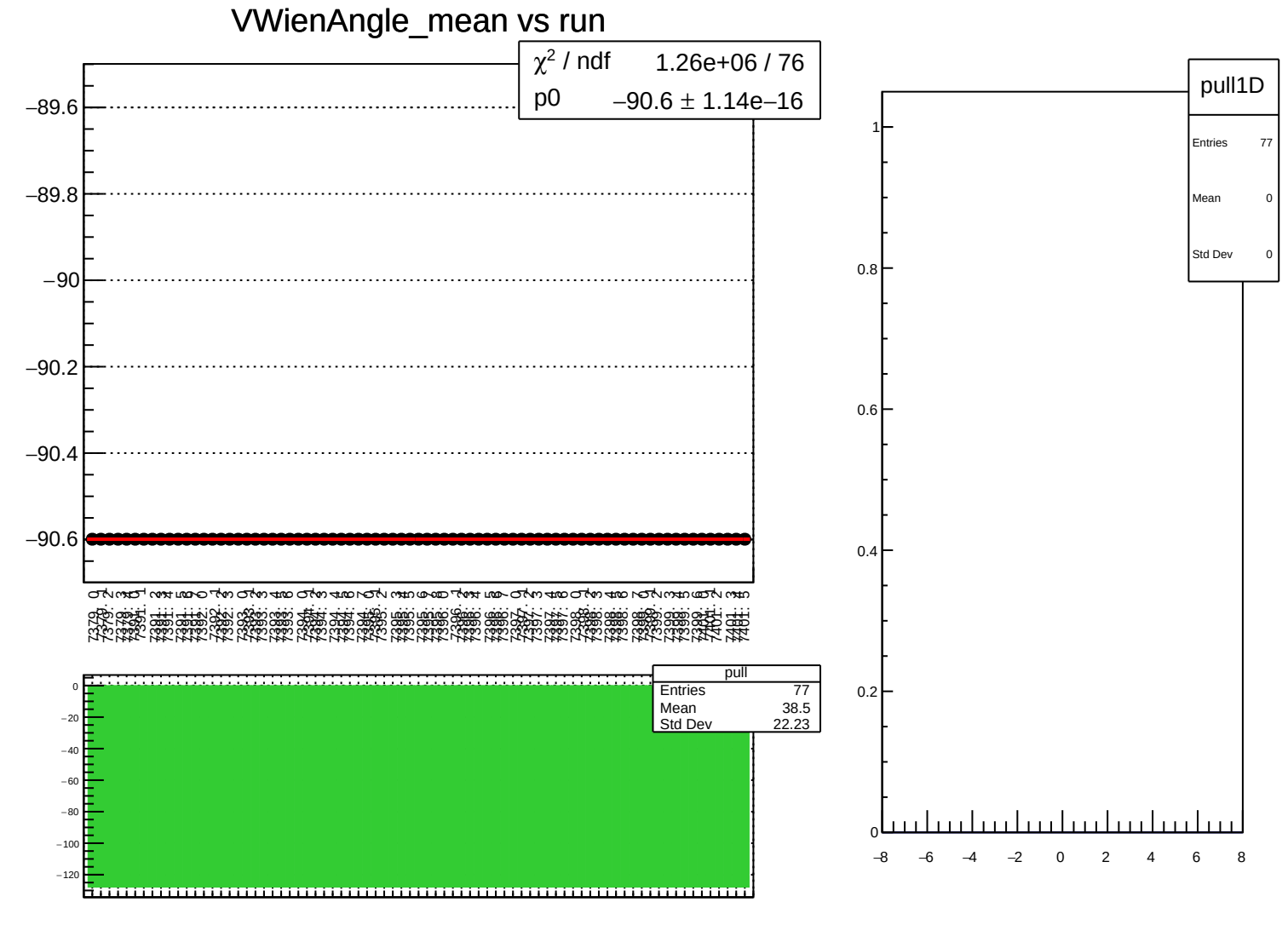

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 541.7 / 76
p0 10.6 ± 0.1245
pull
Entries 77
Mean −18.42
Std Dev 63.95

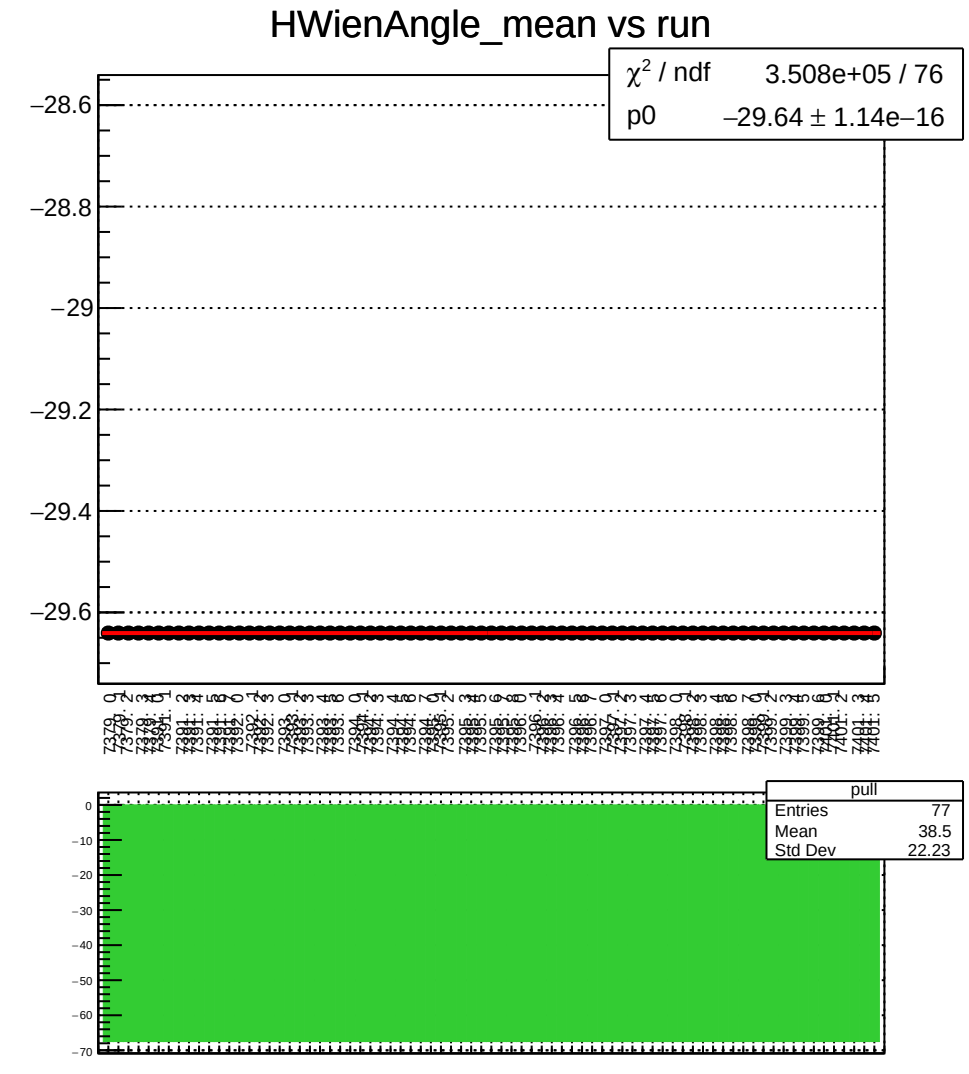

pull1D
Entries 77
Mean 0.02258
Std Dev 2.265

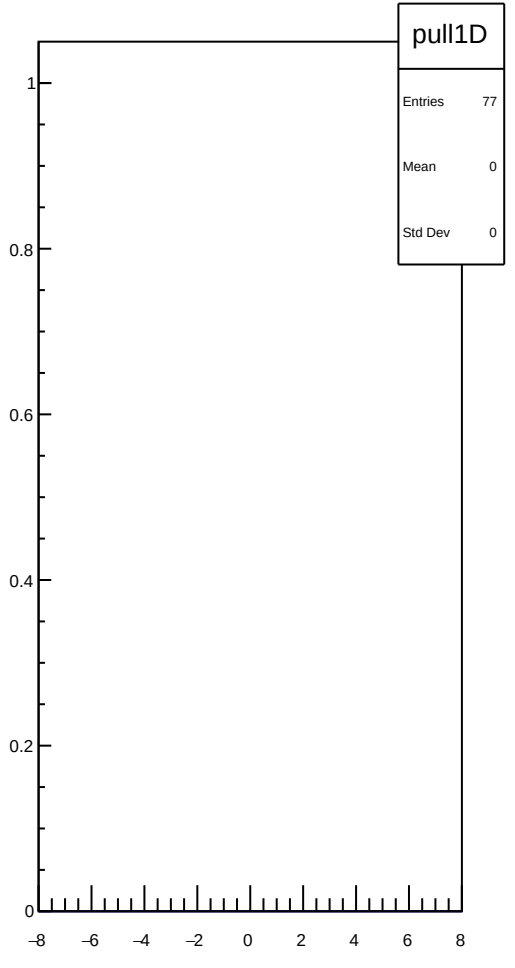

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 171 / 76
p0 3.367 ± 0.1342
pull
Entries 77
Mean 212.6
Std Dev 178.2

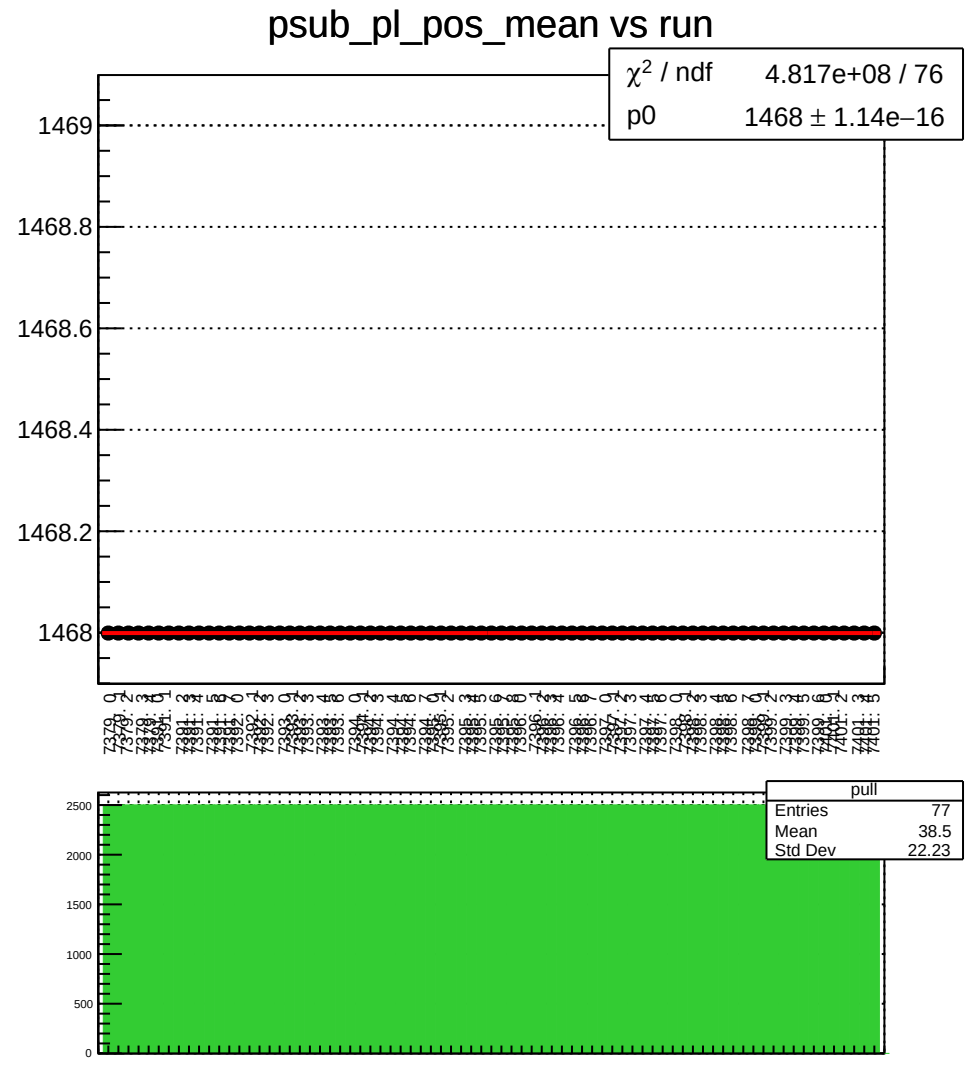

pull1D
Entries 77
Mean 0.07829
Std Dev 1.488

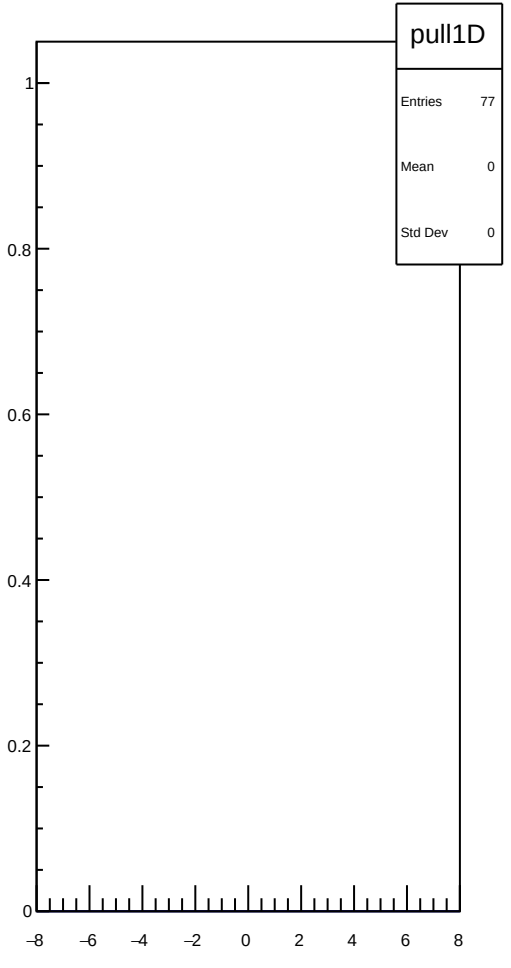

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 164.7 / 76
p0 0.1612 ± 0.006067
pull
Entries 77
Mean 64.33
Std Dev 56.52
pull1D
Entries 77
Mean 0.07788
Std Dev 1.46

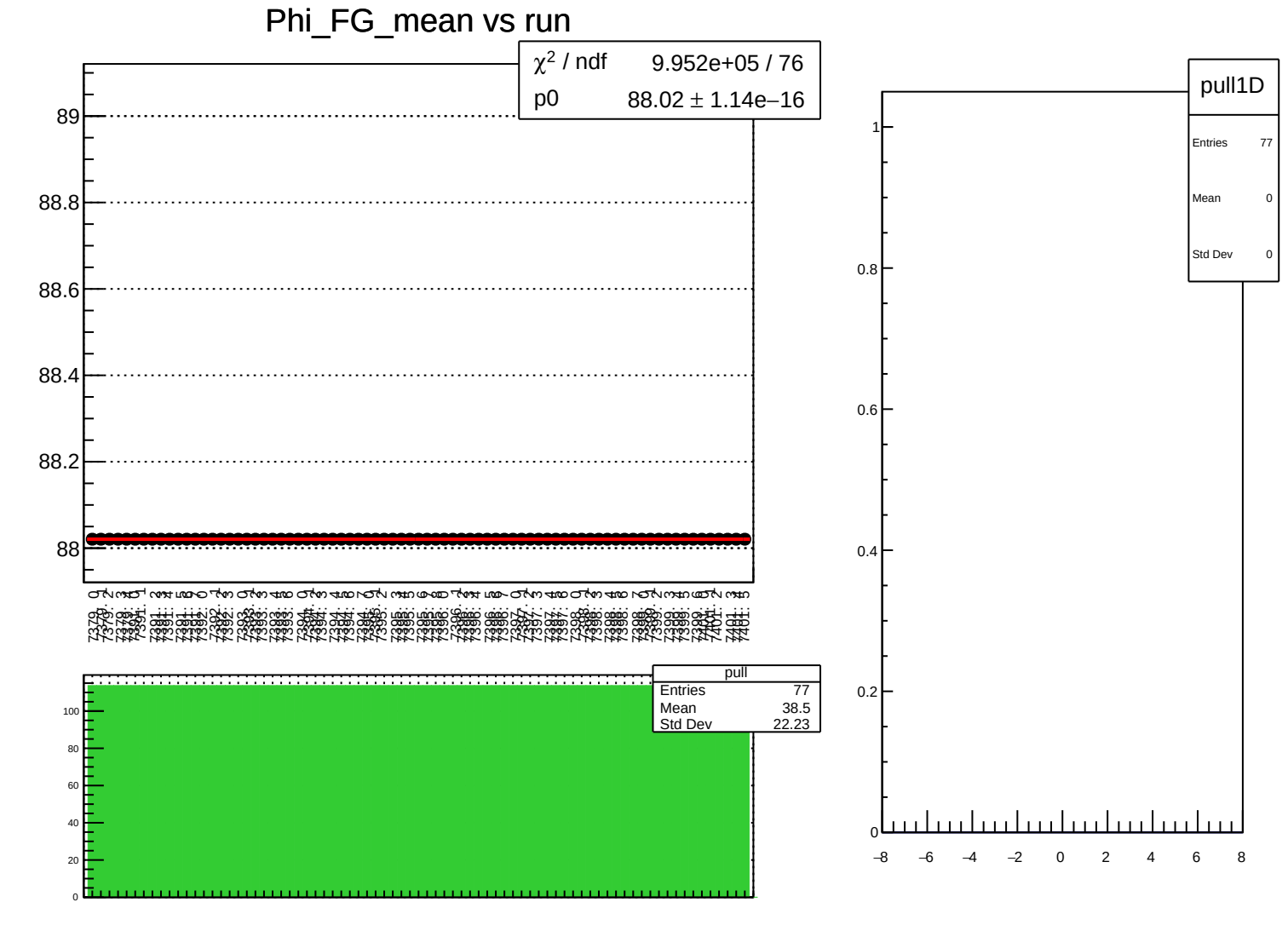

VWienAngle_mean vs run
χ² / ndf 1.26e+06 / 76
p0 −90.6 ± 1.14e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 77
Mean 38.5
Std Dev 22.23
0
−20
−40
−60
−80
−100
−120
pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

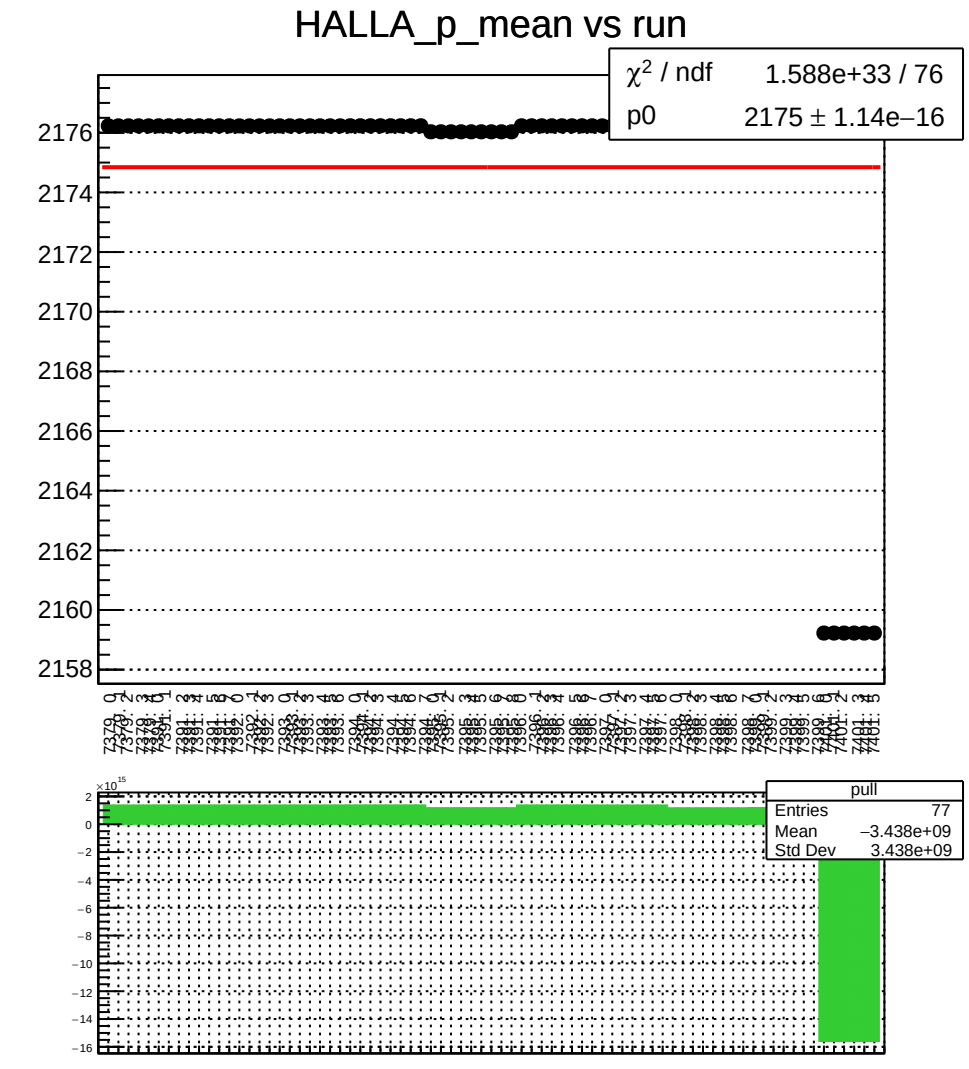

HWienAngle_mean vs run
χ² / ndf 3.508e+05 / 76
p0 −29.64 ± 1.14e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 77
Mean 38.5
Std Dev 22.23
0
−10
−20
−30
−40
−50
−60
−70

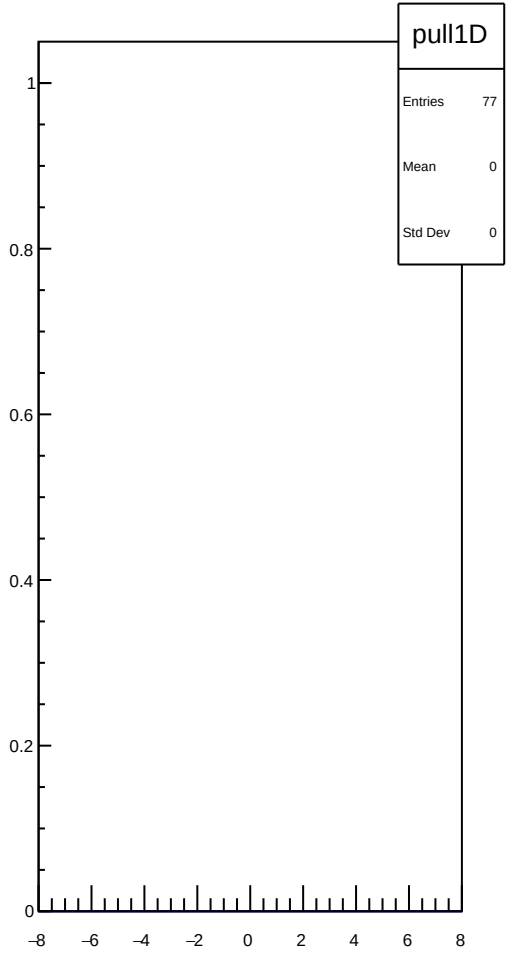

pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

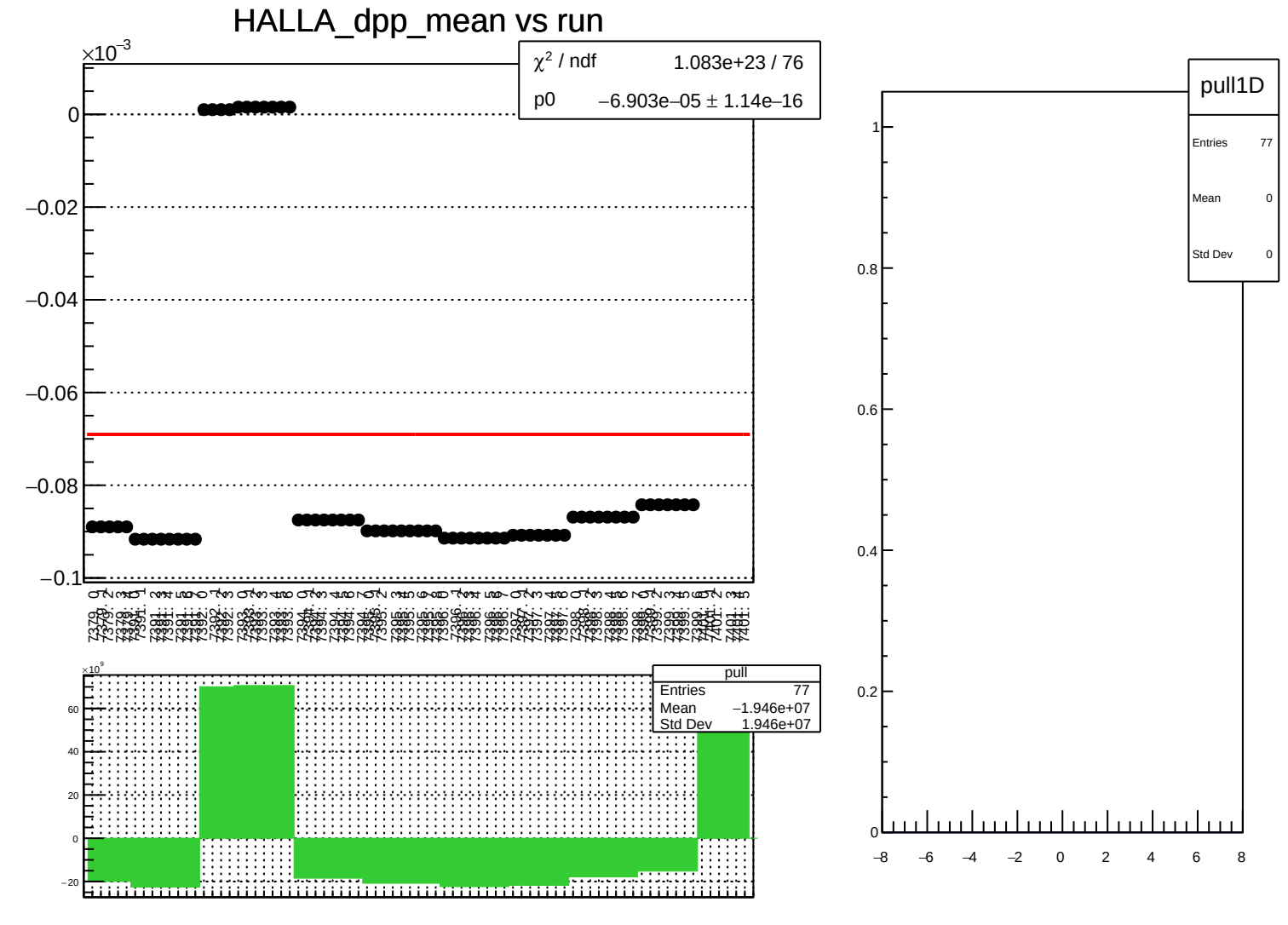

psub_pl_pos_mean vs run
χ² / ndf 4.817e+08 / 76
p0 1468 ± 1.14e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 77
Mean 38.5
Std Dev 22.23
2500
2000
1500
1000
500
0

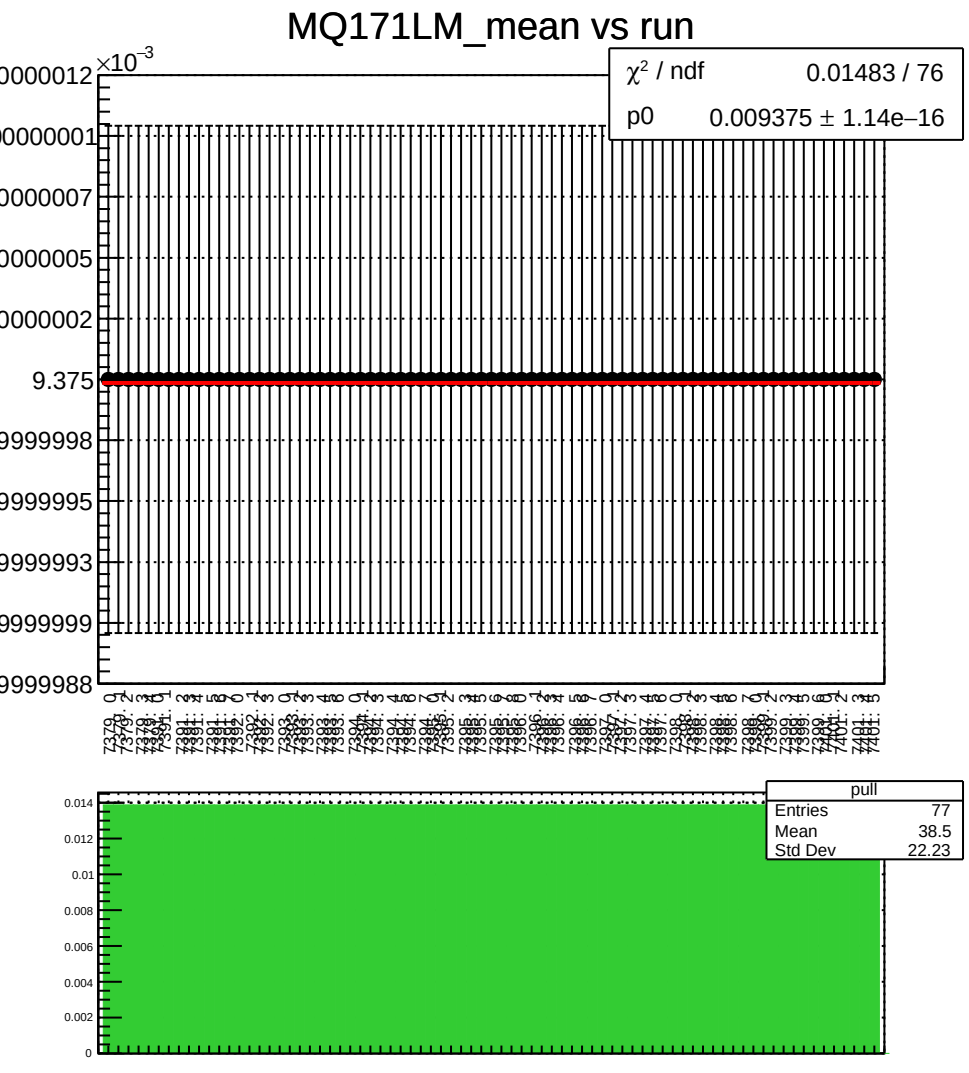

pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

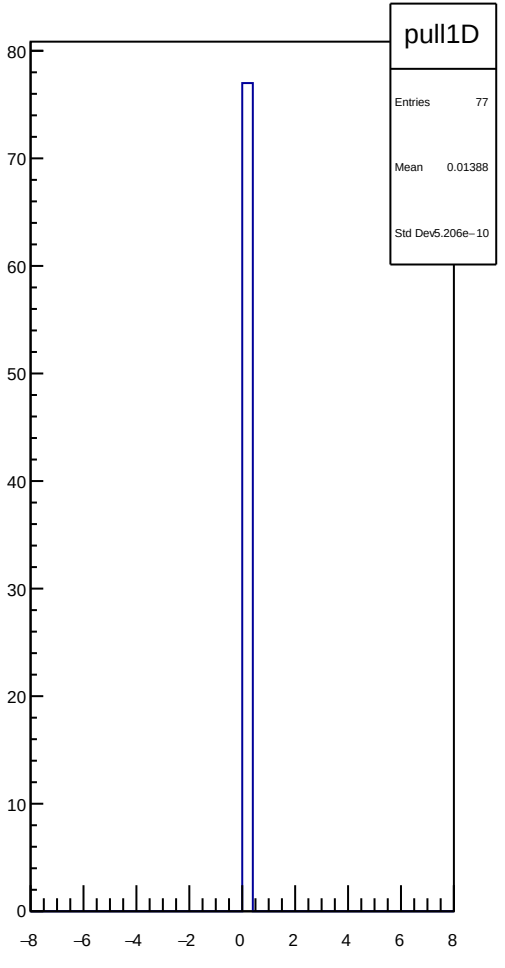

Phi_FG_mean vs run
χ² / ndf 9.952e+05 / 76
p0 88.02 ± 1.14e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 77
Mean 38.5
Std Dev 22.23
100
80
60
40
20
0
pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

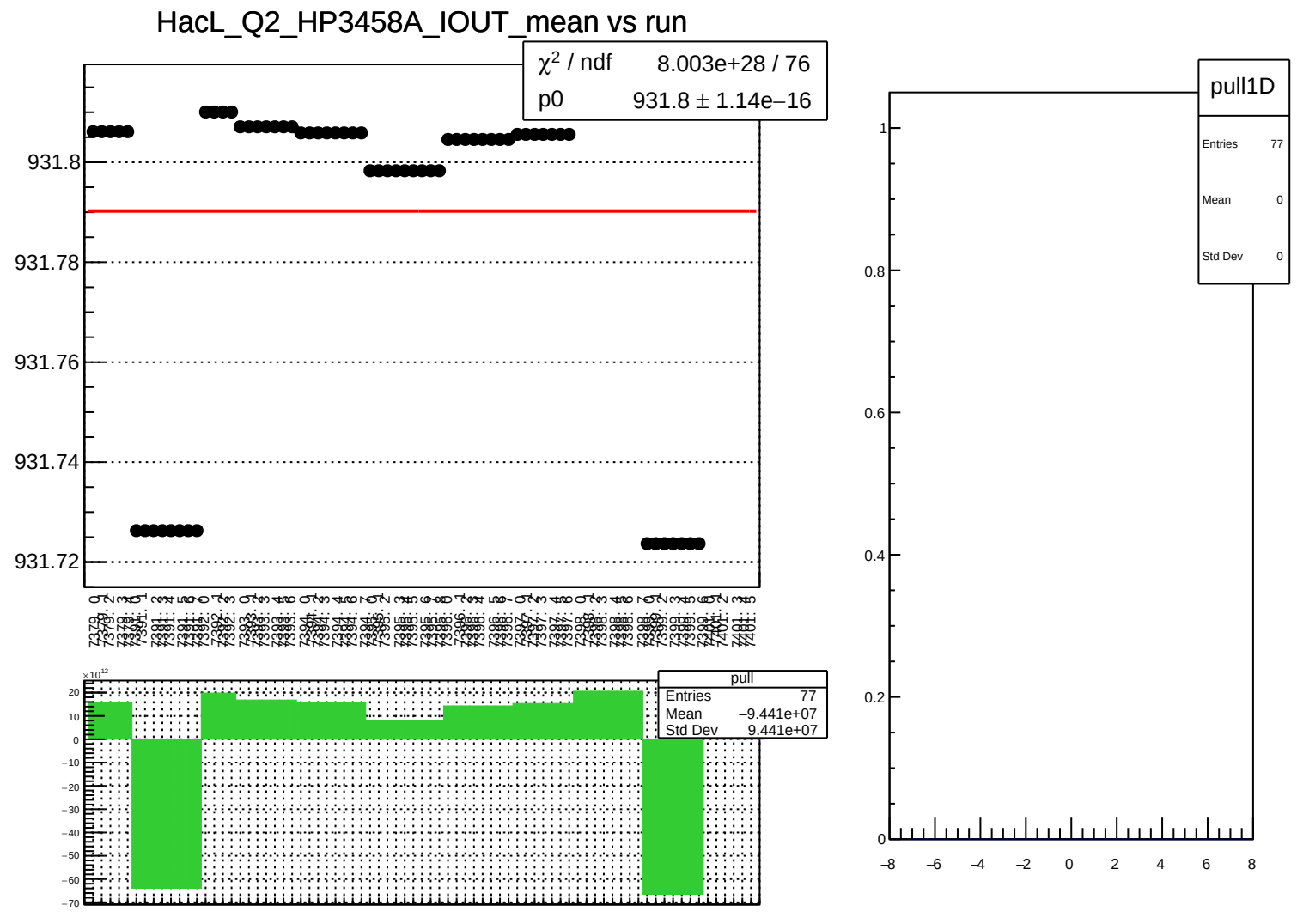

HALLA_p_mean vs run
χ² / ndf 1.588e+33 / 76
p0 2175 ± 1.14e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 77
Mean −3.438e+09
Std Dev 3.438e+09
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
−16

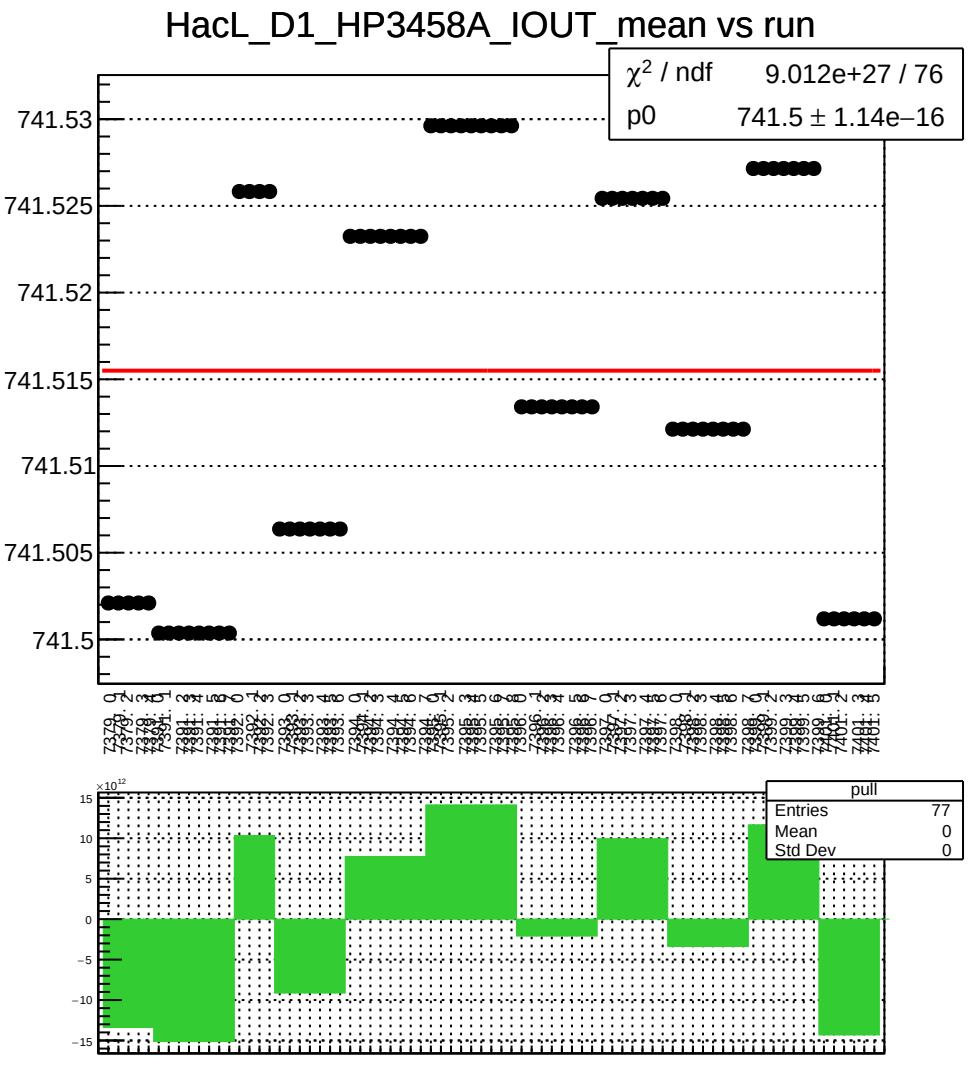

pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

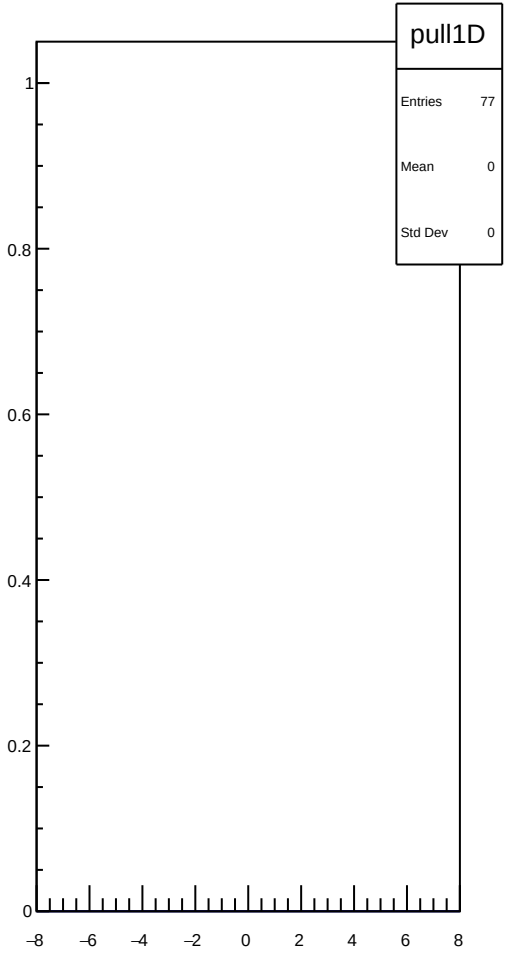

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.083e+23 / 76
p0 −6.903e−05 ± 1.14e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
pull
Entries 77
Mean −1.946e+07
Std Dev 1.946e+07
60
40
20
0
−20
pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

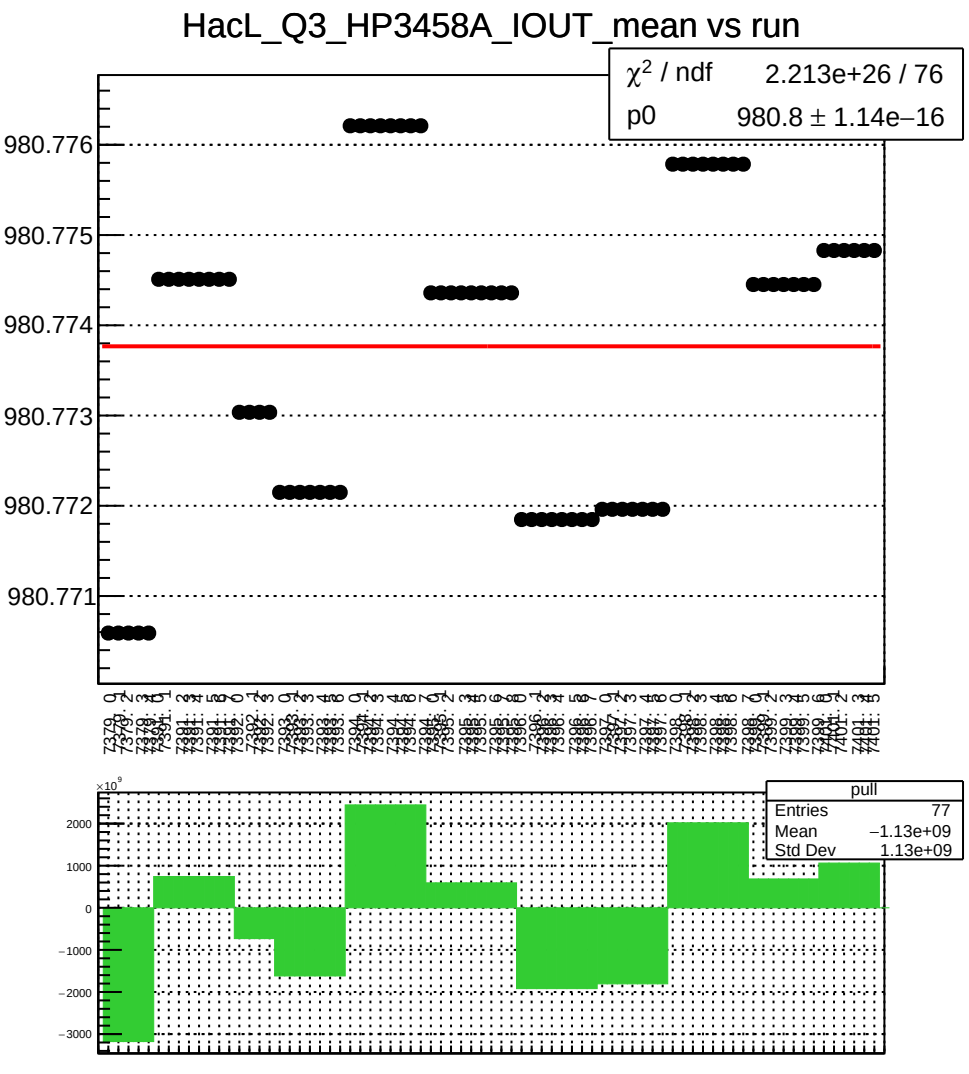

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.01483 / 76
p0 0.009375 ± 1.14e−16
9.375
pull
Entries 77
Mean 38.5
Std Dev 22.23

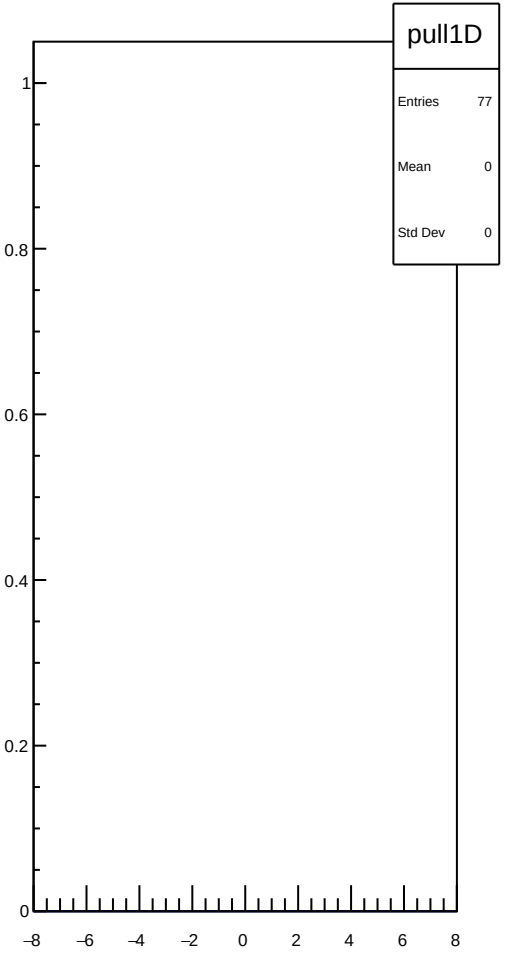

pull1D
Entries 77
Mean 0.01388
Std Dev 5.206e−10

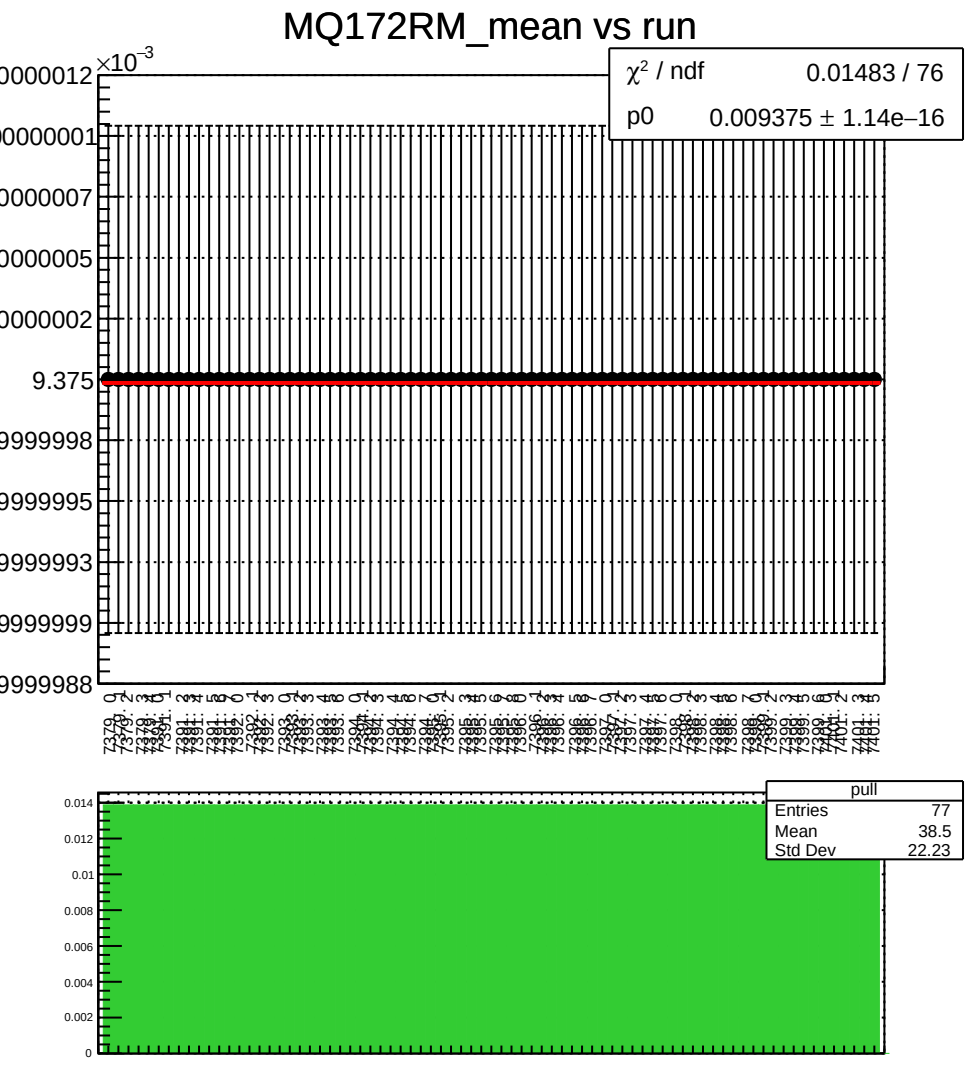

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 8.003e+28 / 76
p0 931.8 ± 1.14e−16
931.8
931.78
931.76
931.74
931.72
pull
Entries 77
Mean −9.441e+07
Std Dev 9.441e+07
pull1D
Entries 77
Mean 0
Std Dev 0

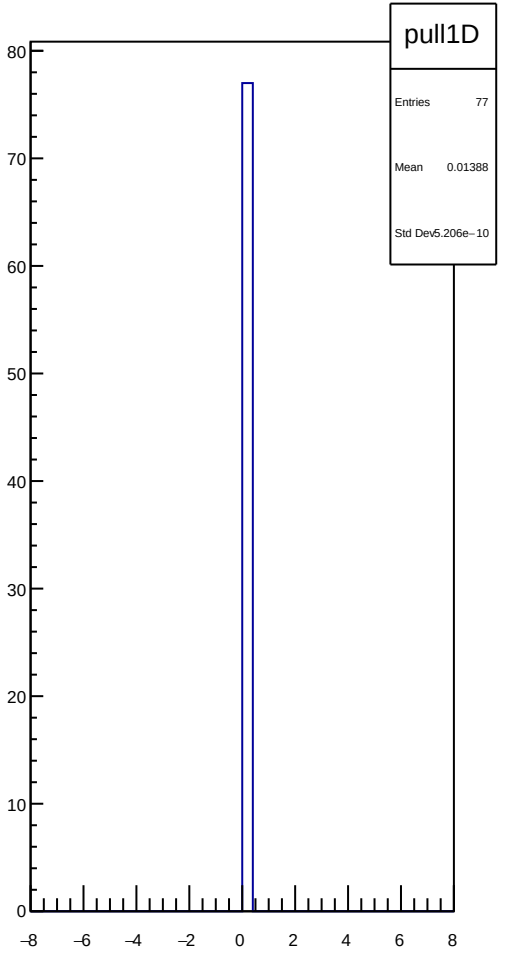

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 9.012e+27 / 76
p0 741.5 ± 1.14e−16
741.53
741.525
741.52
741.515
741.51
741.505
741.5
pull
Entries 77
Mean 0
Std Dev 0
×10¹²
15
10
5
0
−5
−10
−15

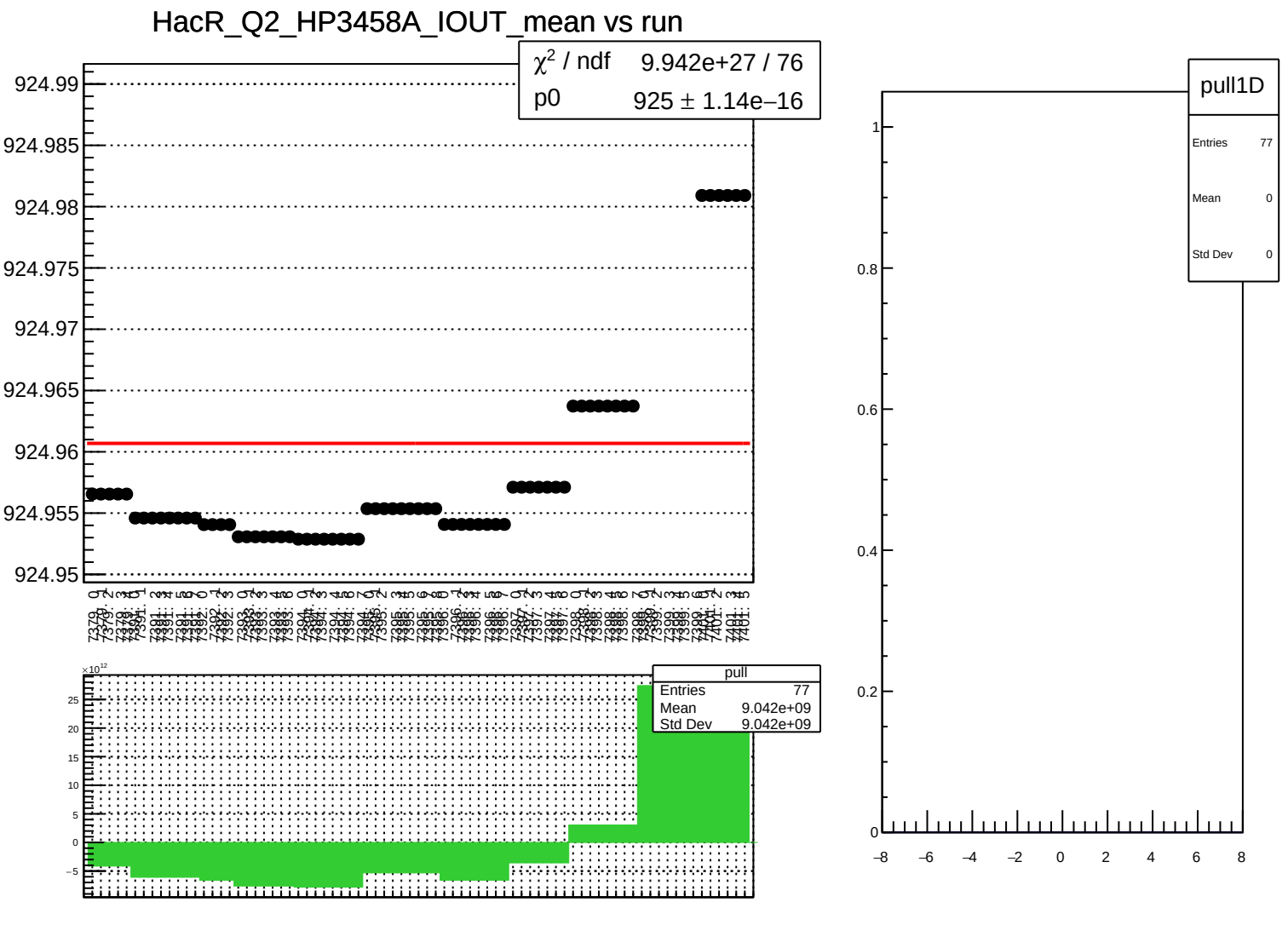

pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

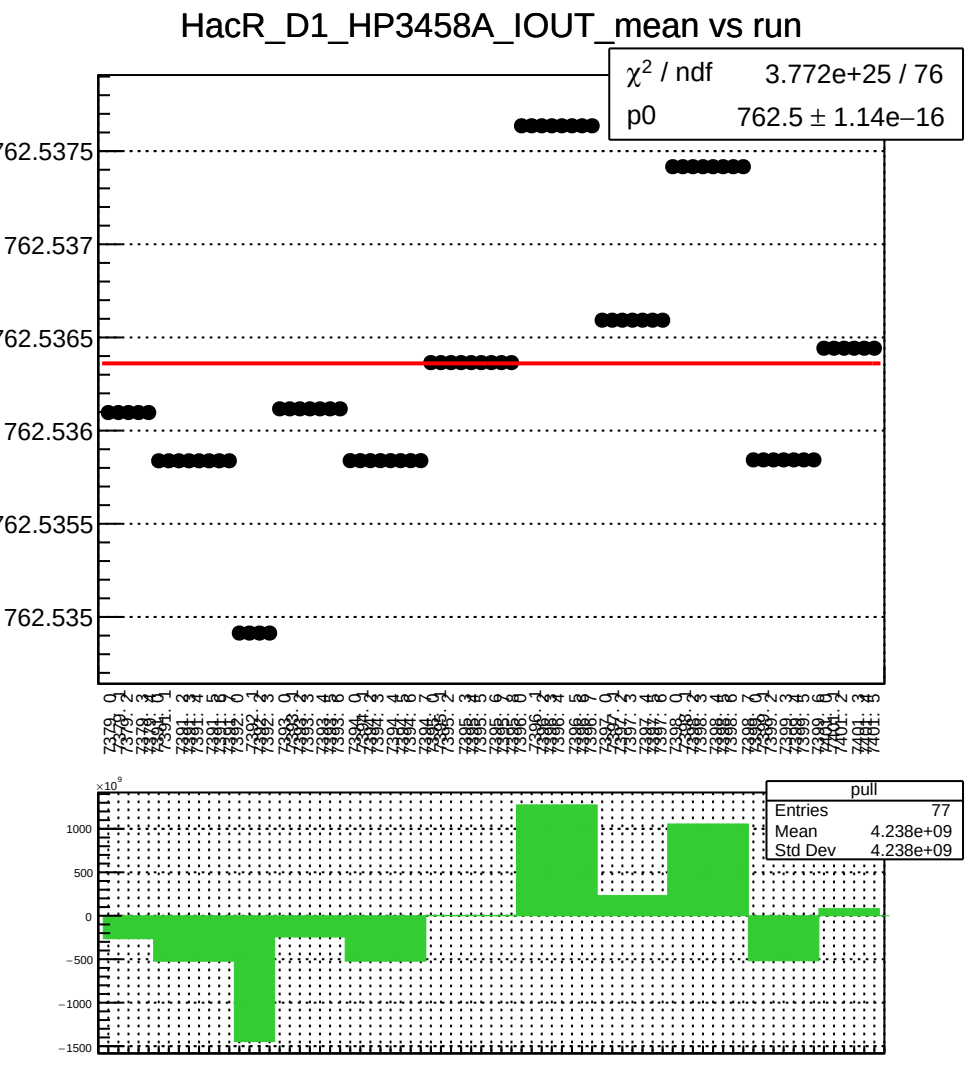

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.213e+26 / 76
p0 980.8 ± 1.14e−16
980.776
980.775
980.774
980.773
980.772
980.771
×10⁹
2000
1000
0
−1000
−2000
−3000
pull
Entries 77
Mean −1.13e+09
Std Dev 1.13e+09

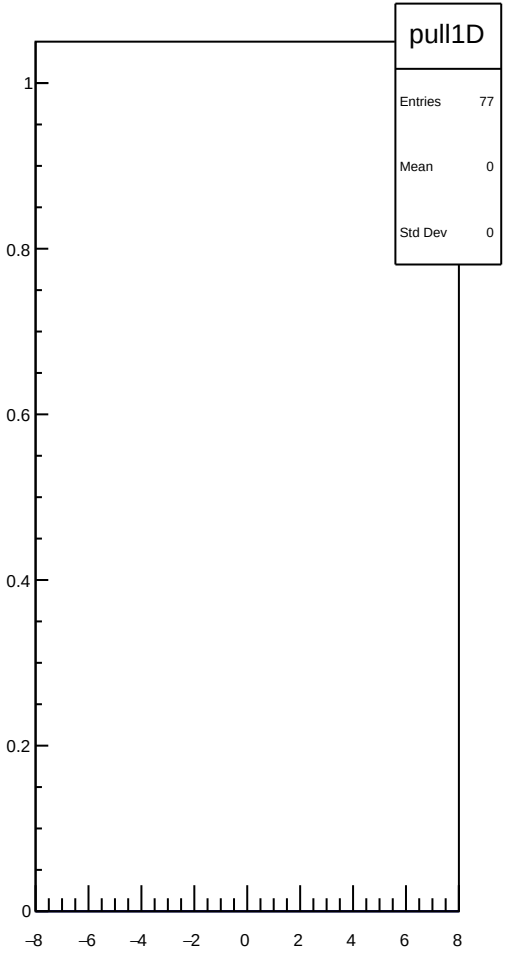

pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

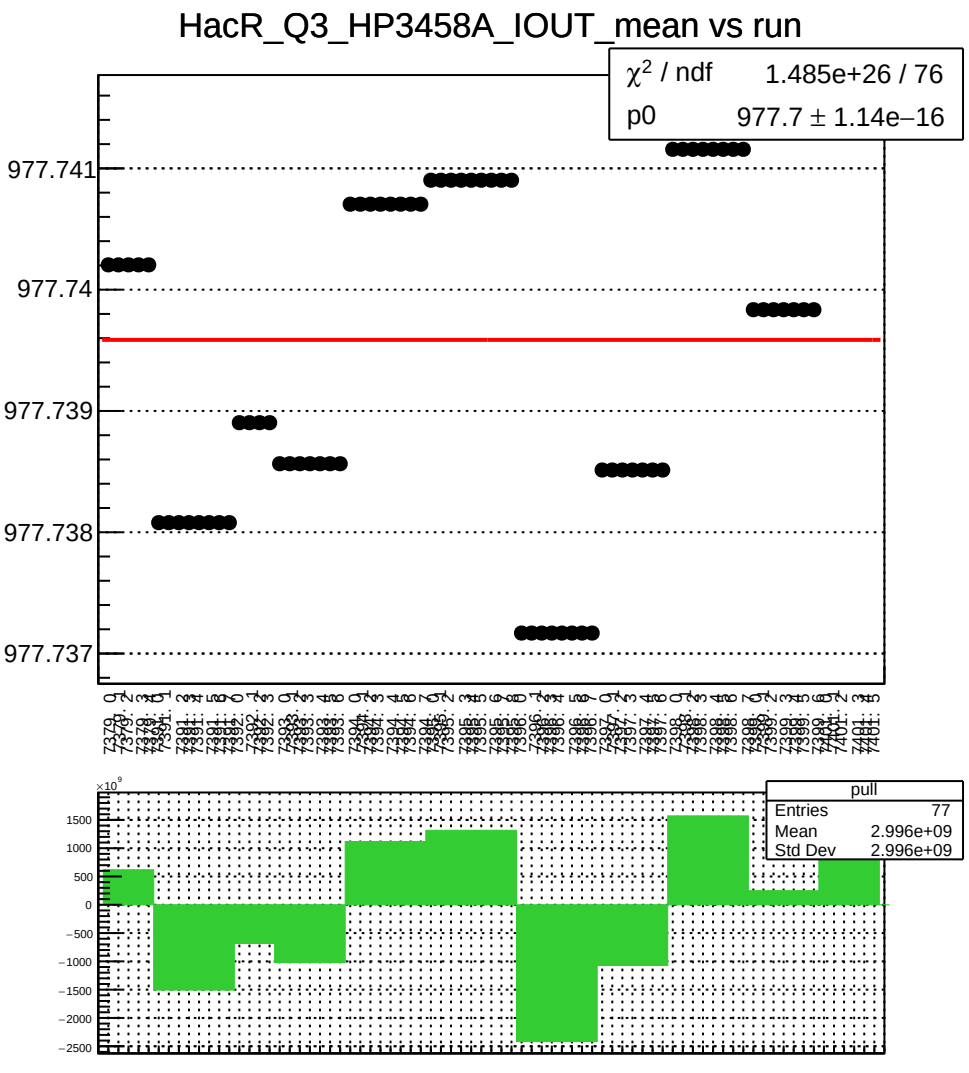

MQ172RM_mean vs run
χ^2 / ndf 0.01483 / 76
p0 0.009375 ± 1.14e−16
×10⁻³
9.375
pull
Entries 77
Mean 38.5
Std Dev 22.23

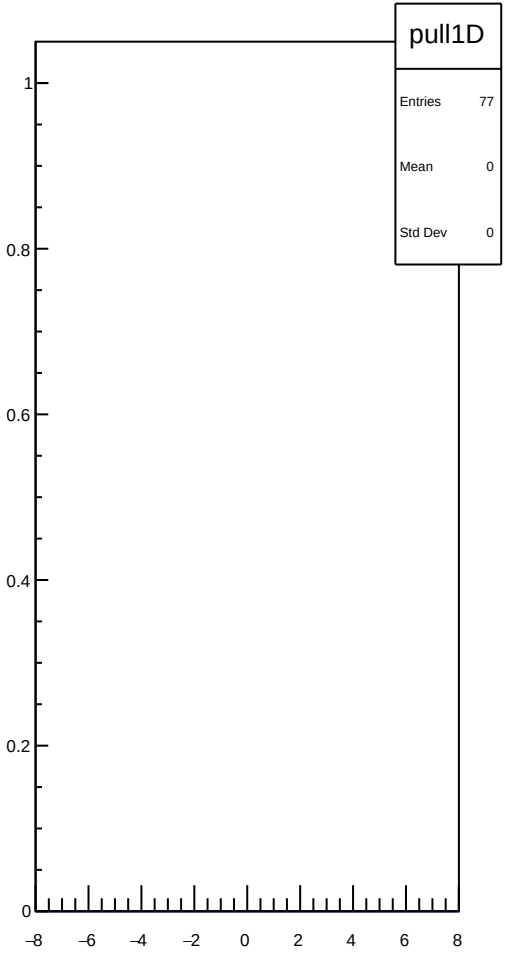

pull1D
Entries 77
Mean 0.01388
Std Dev 5.206e−10

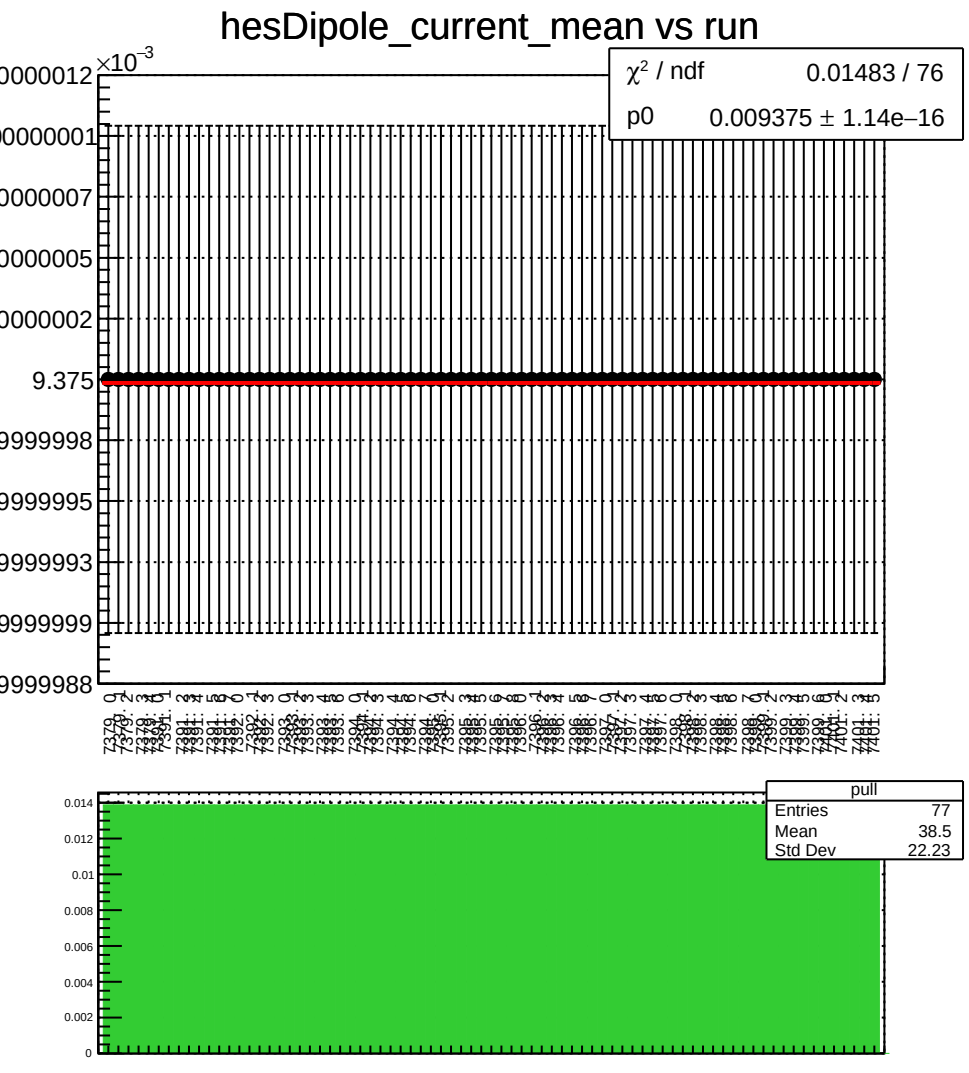

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 9.942e+27 / 76
p0 925 ± 1.14e−16
924.99
924.985
924.98
924.975
924.97
924.965
924.96
924.955
924.95
pull
Entries 77
Mean 9.042e+09
Std Dev 9.042e+09
×10¹²
25
20
15
10
5
0
−5
pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

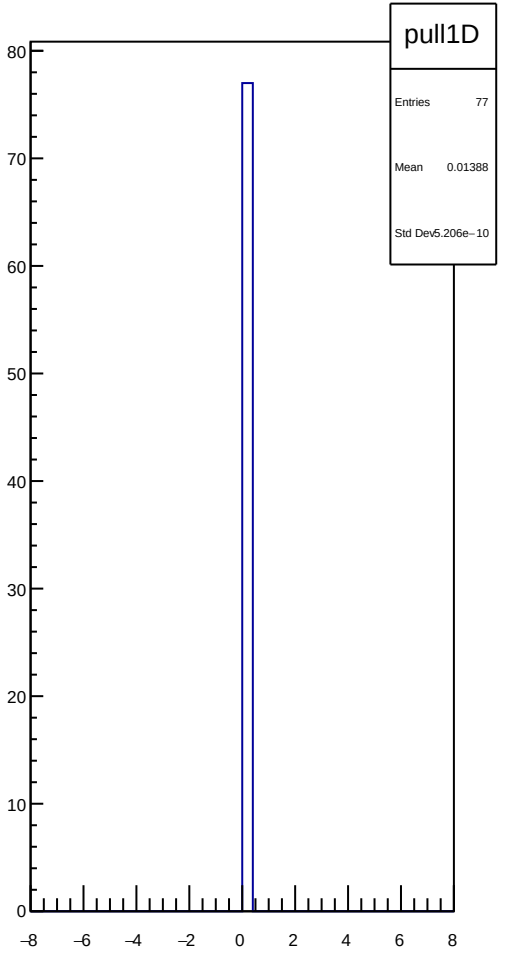

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.772e+25 / 76
p0 762.5 ± 1.14e−16
762.5375
762.537
762.5365
762.536
762.5355
762.535
×10⁹
1000
500
0
−500
−1000
−1500
pull
Entries 77
Mean 4.238e+09
Std Dev 4.238e+09

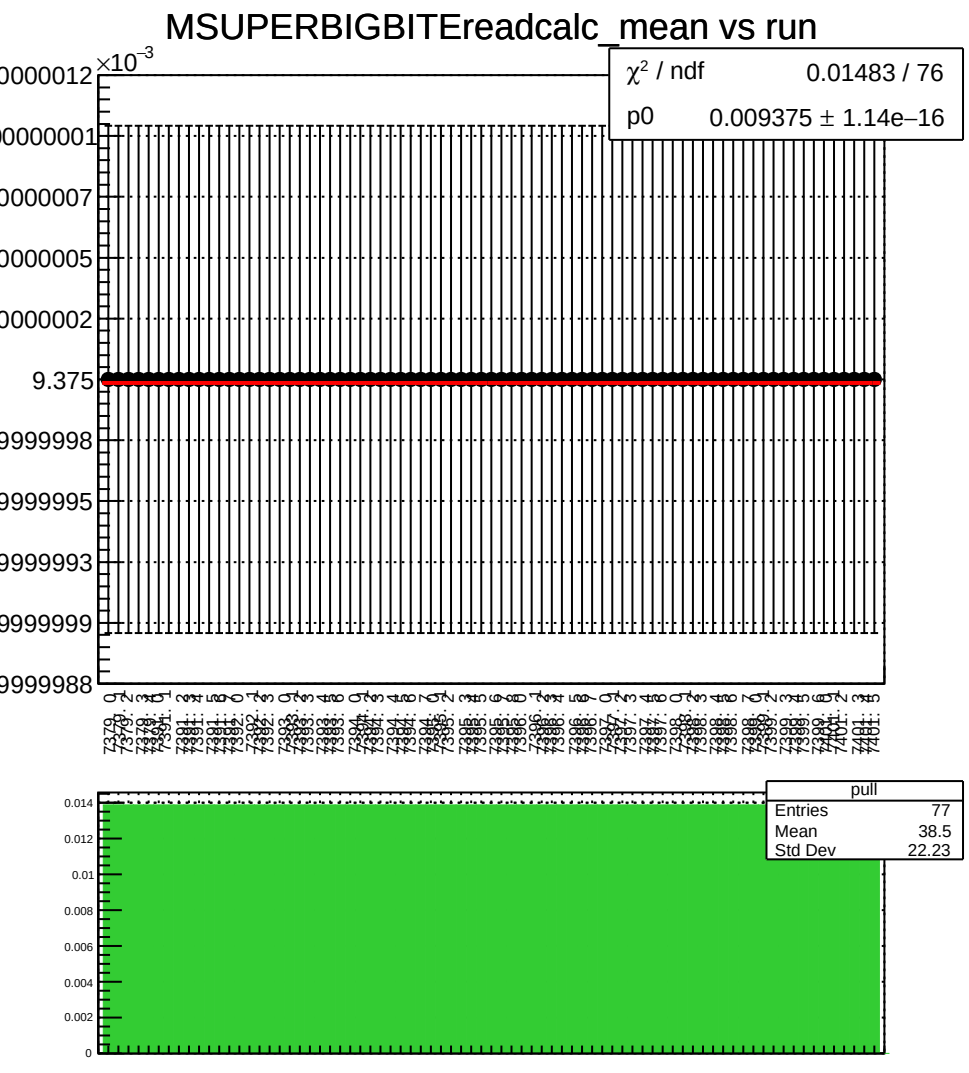

pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

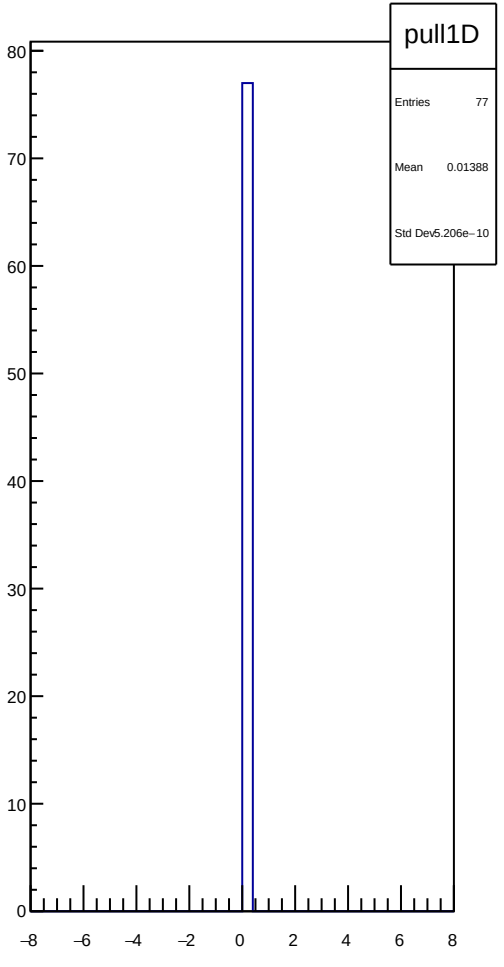

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.485e+26 / 76
p0 977.7 ± 1.14e−16
977.741
977.74
977.739
977.738
977.737
×10⁹
pull
Entries 77
Mean 2.996e+09
Std Dev 2.996e+09

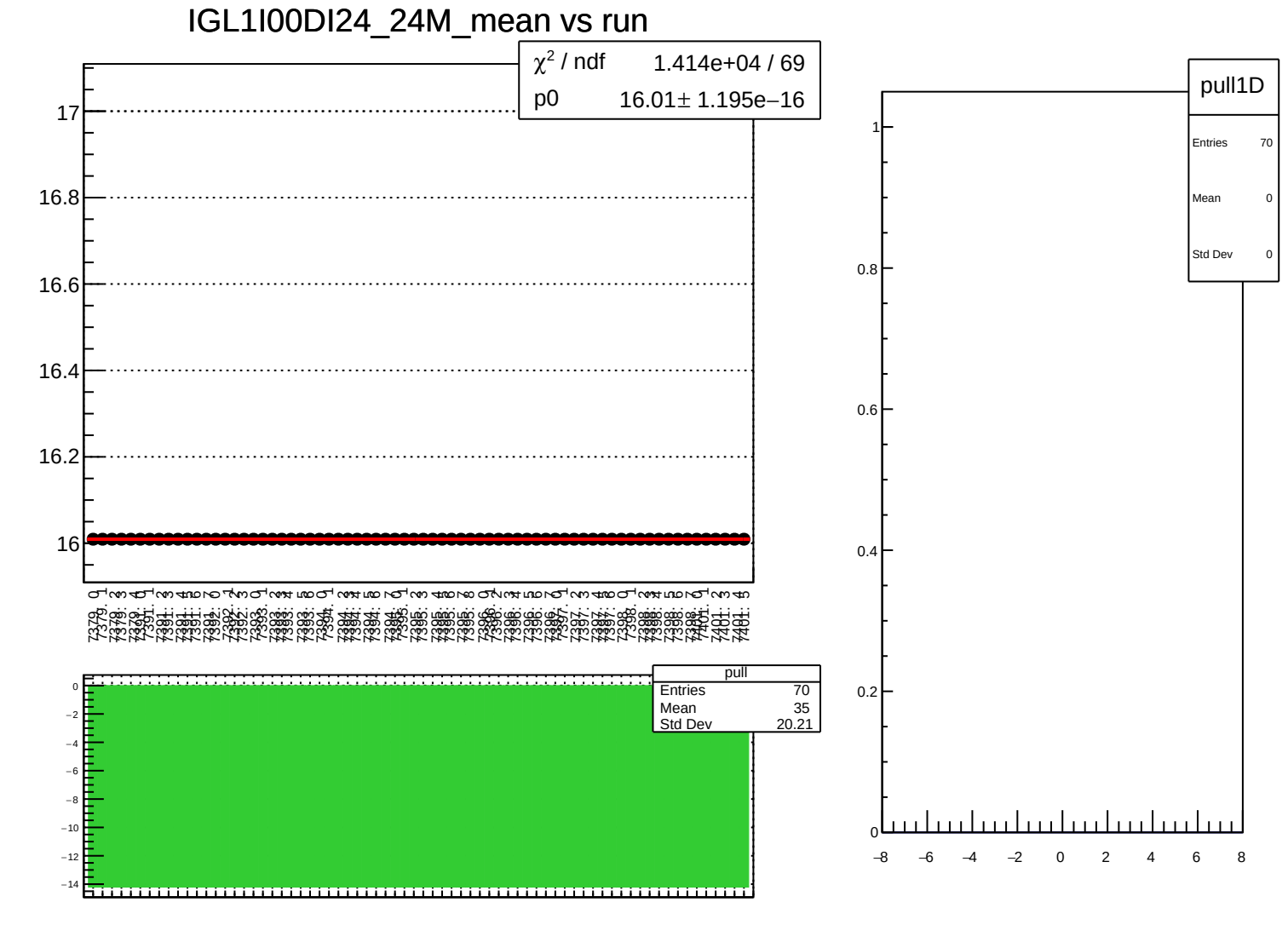

pull1D
Entries 77
Mean 0
Std Dev 0

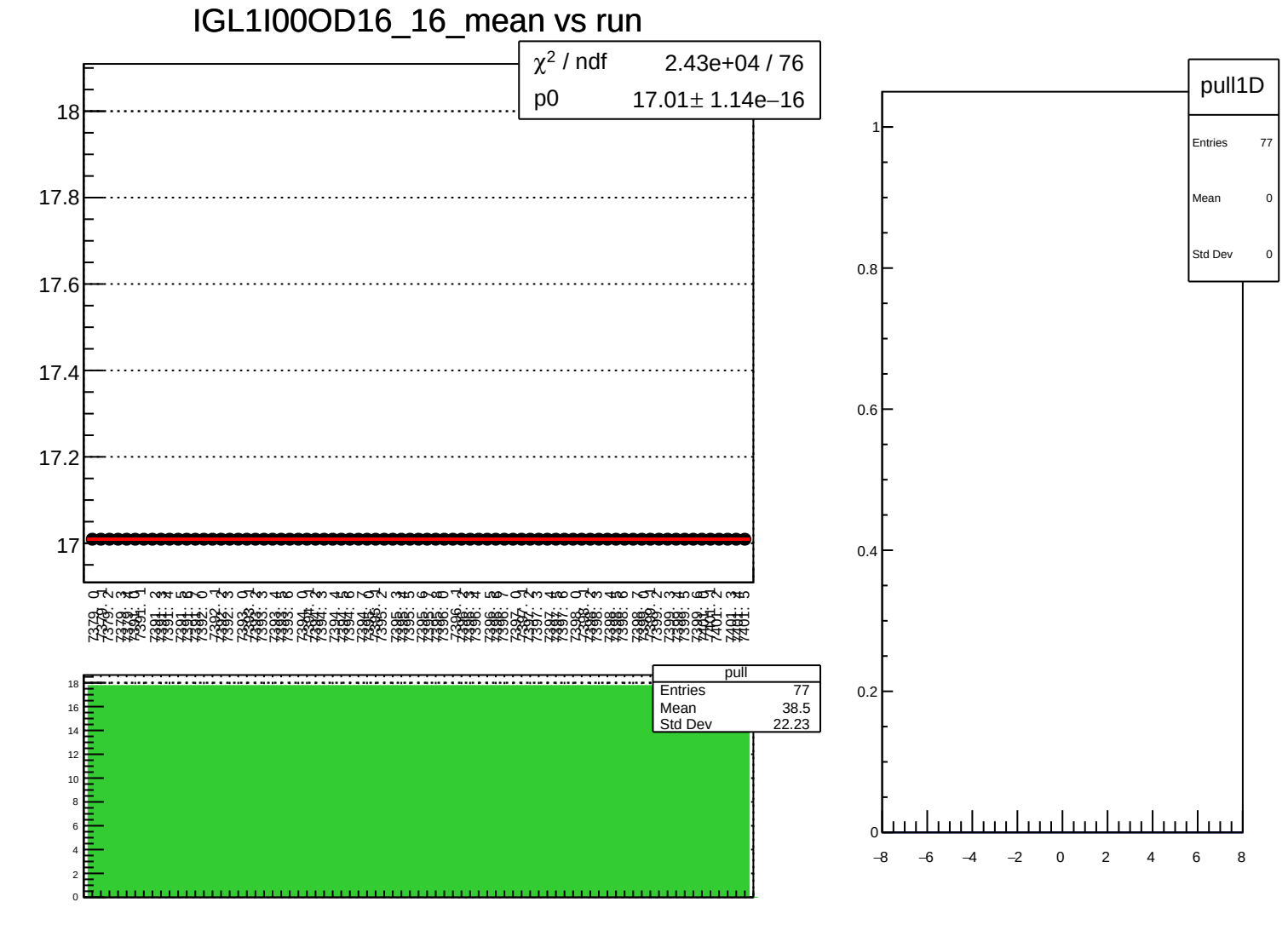

hesDipole_current_mean vs run
χ² / ndf 0.01483 / 76
p0 0.009375 ± 1.14e−16
×10⁻³
pull
Entries 77
Mean 38.5
Std Dev 22.23

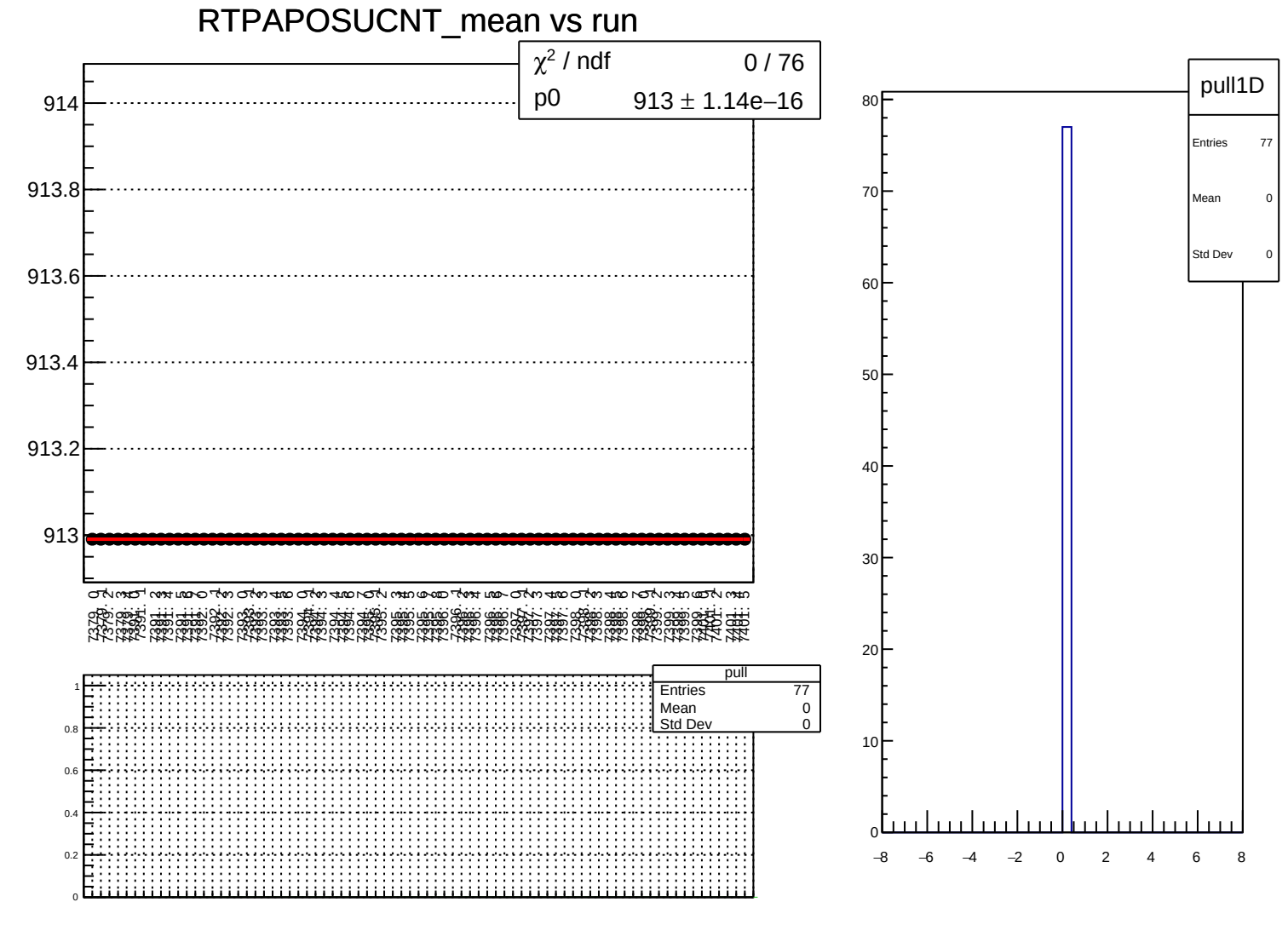

pull1D
Entries 77
Mean 0.01388
Std Dev 5.206e−10

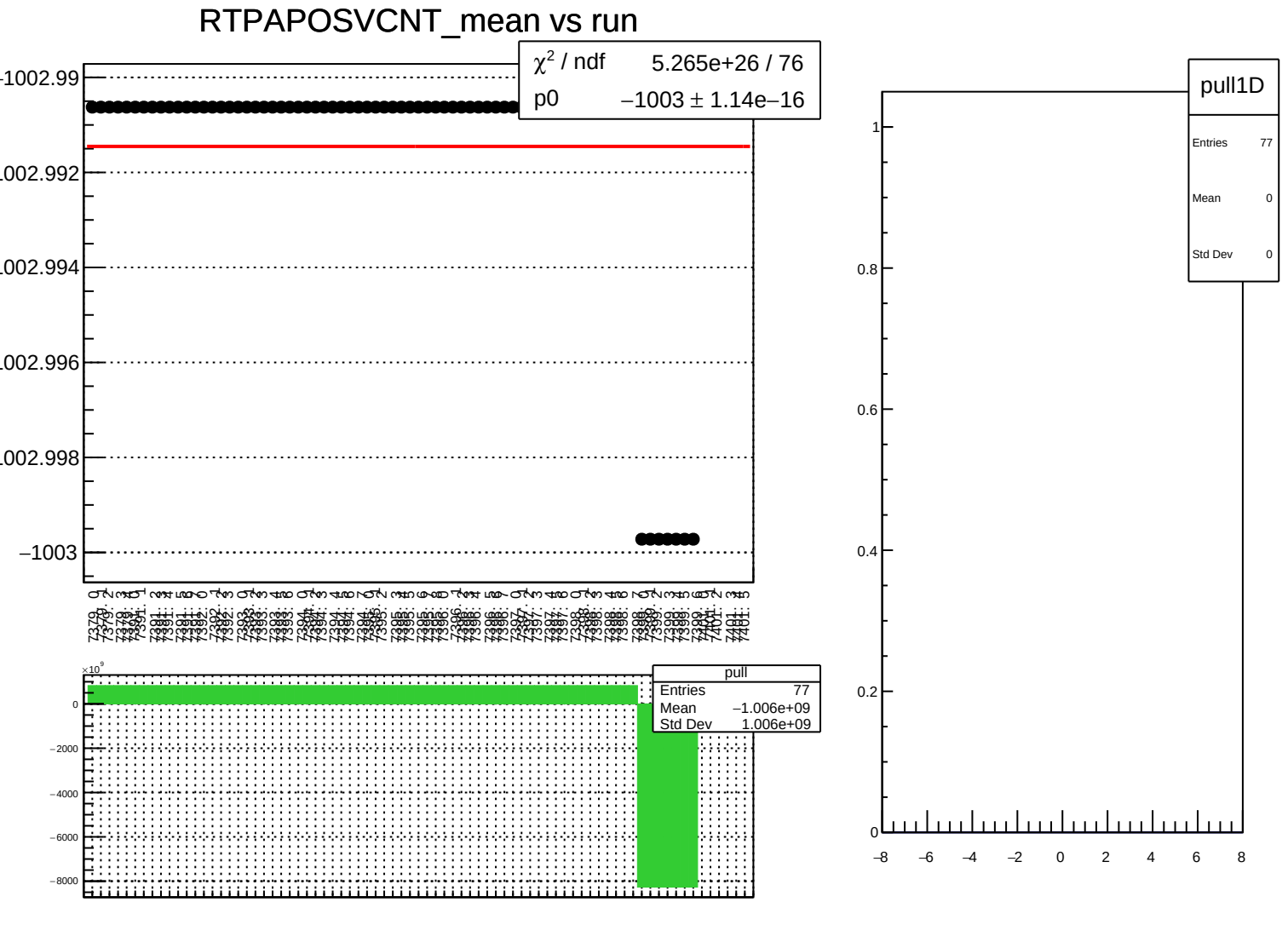

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.01483 / 76
p0 0.009375 ± 1.14e−16
×10⁻³
pull
Entries 77
Mean 38.5
Std Dev 22.23


pull1D
Entries 77
Mean 0.01388
Std Dev 5.206e−10


IGL1I00DI24_24M_mean vs run
χ² / ndf 1.414e+04 / 69
p0 16.01± 1.195e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 70
Mean 35
Std Dev 20.21
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 70
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00OD16_16_mean vs run
χ² / ndf 2.43e+04 / 76
p0 17.01± 1.14e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 77
Mean 38.5
Std Dev 22.23
pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 0 / 76
p0 913 ± 1.14e−16
914
913.8
913.6
913.4
913.2
913
pull
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 77
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 5.265e+26 / 76
p0 −1003 ± 1.14e−16
−1002.99
−1002.992
−1002.994
−1002.996
−1002.998
−1003
pull
Entries 77
Mean −1.006e+09
Std Dev 1.006e+09
×10⁹
0
−2000
−4000
−6000
−8000
pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8