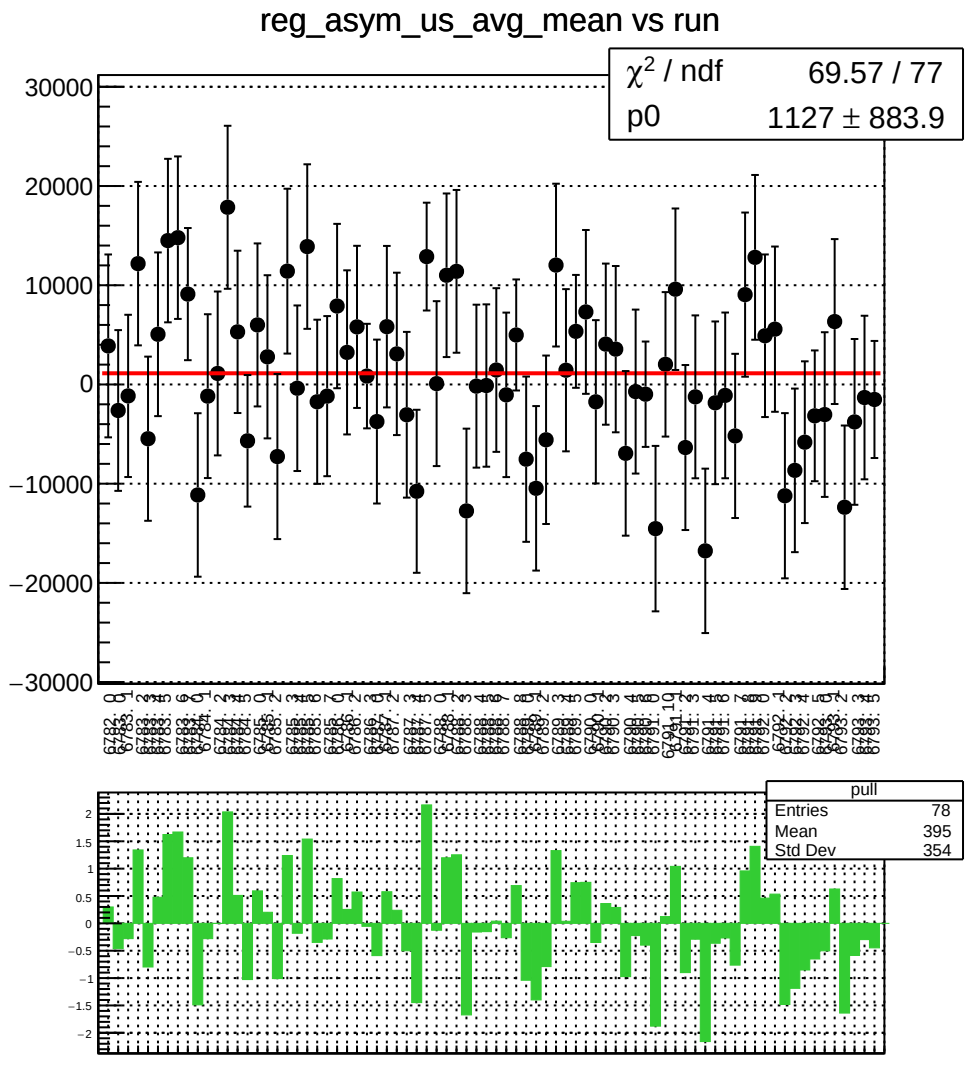
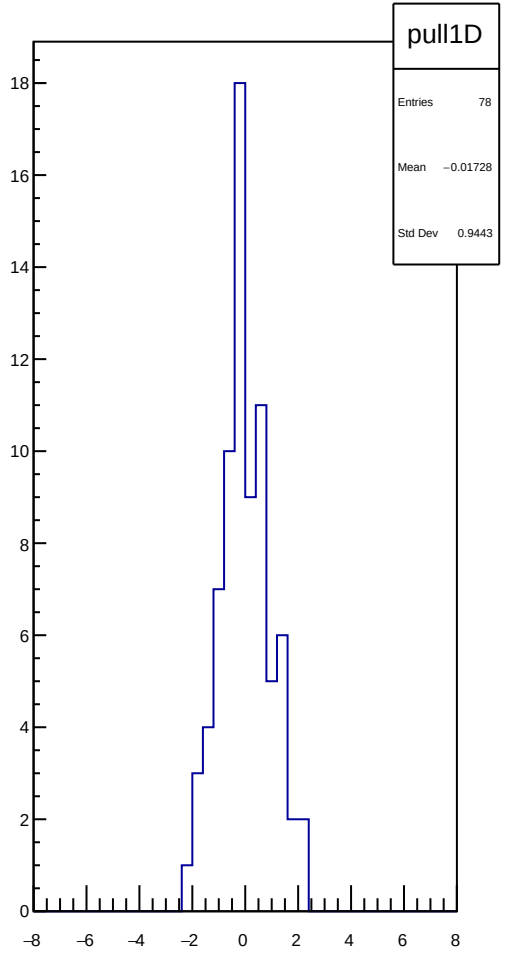
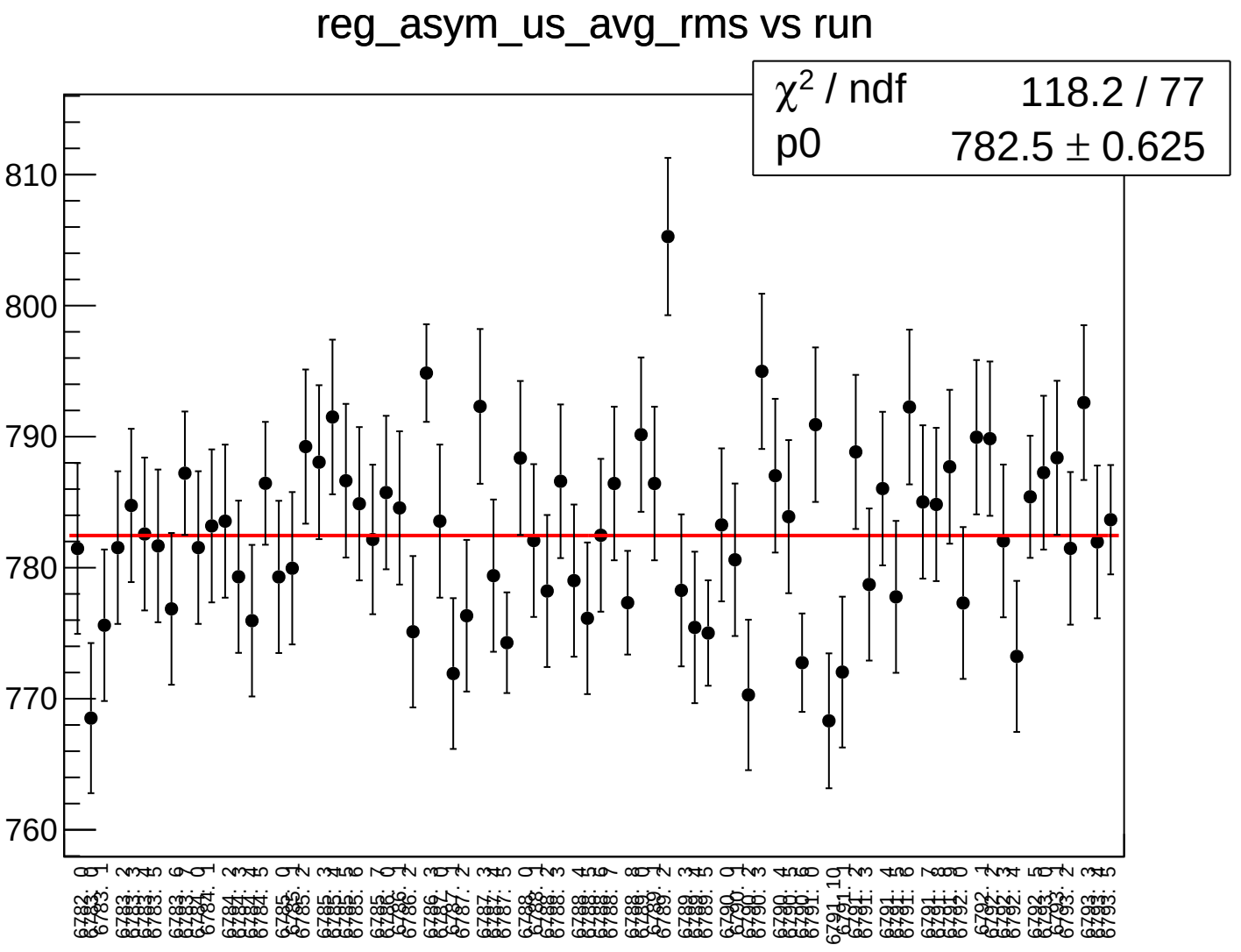
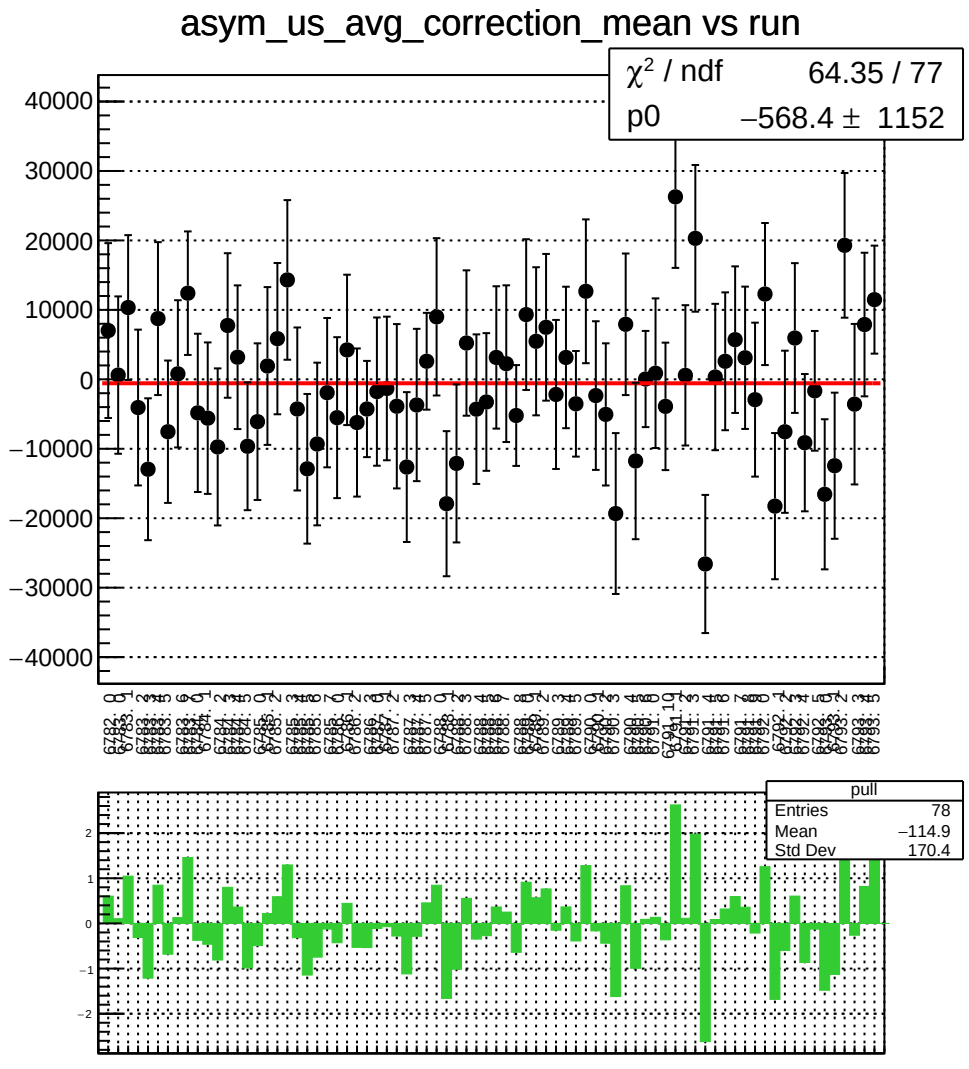
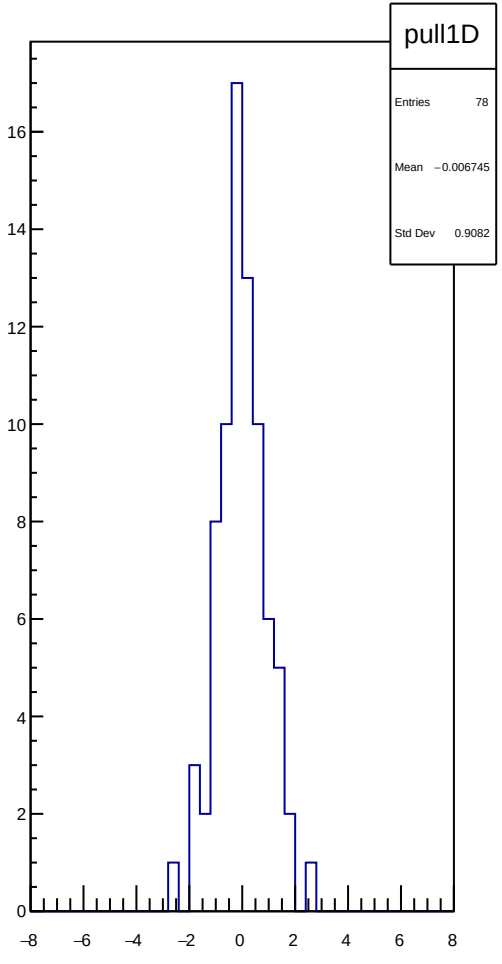
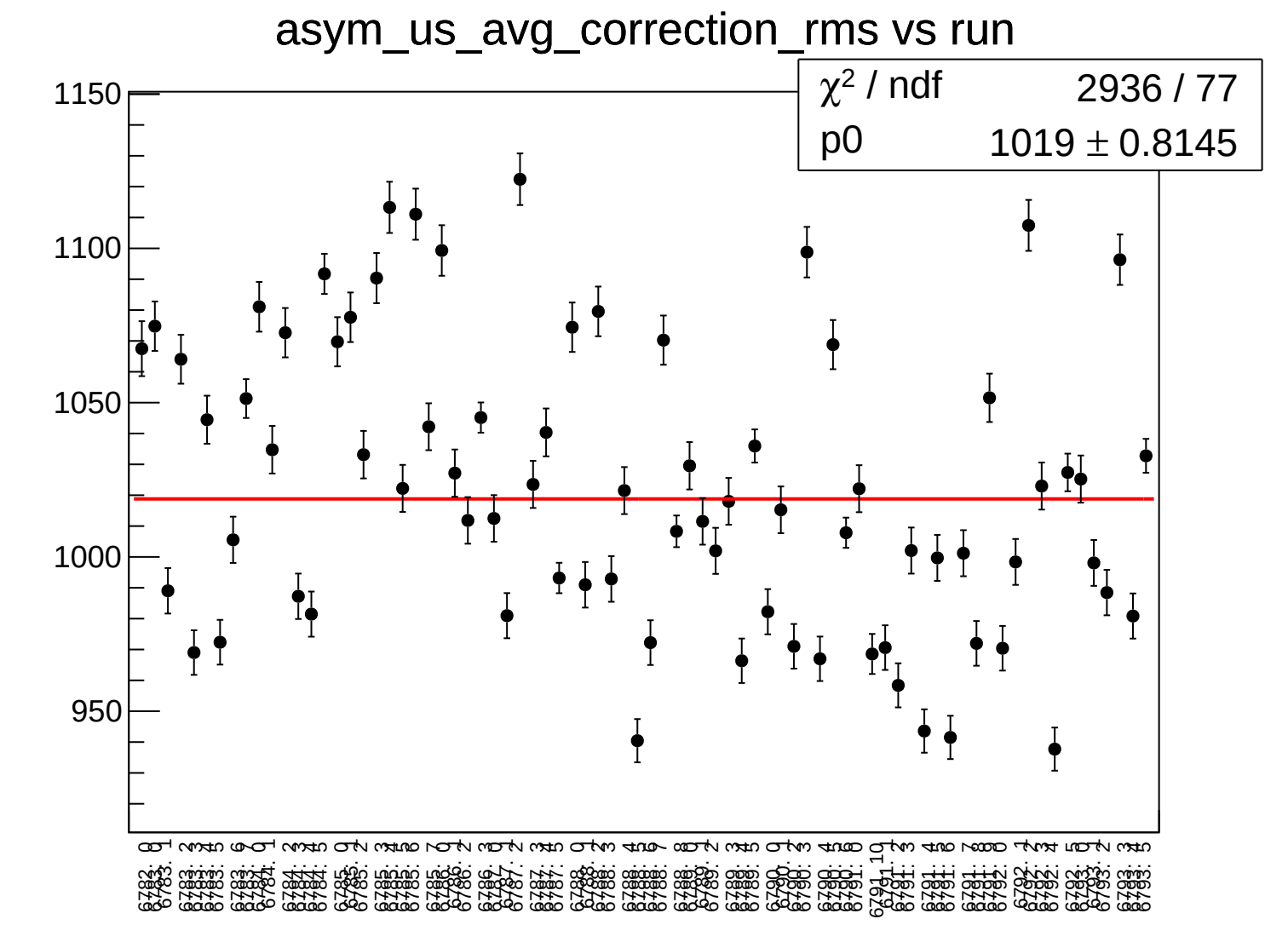

reg_asym_us_avg_mean vs run
χ² / ndf 69.57 / 77
p0 1127 ± 883.9
pull
Entries 78
Mean 395
Std Dev 354

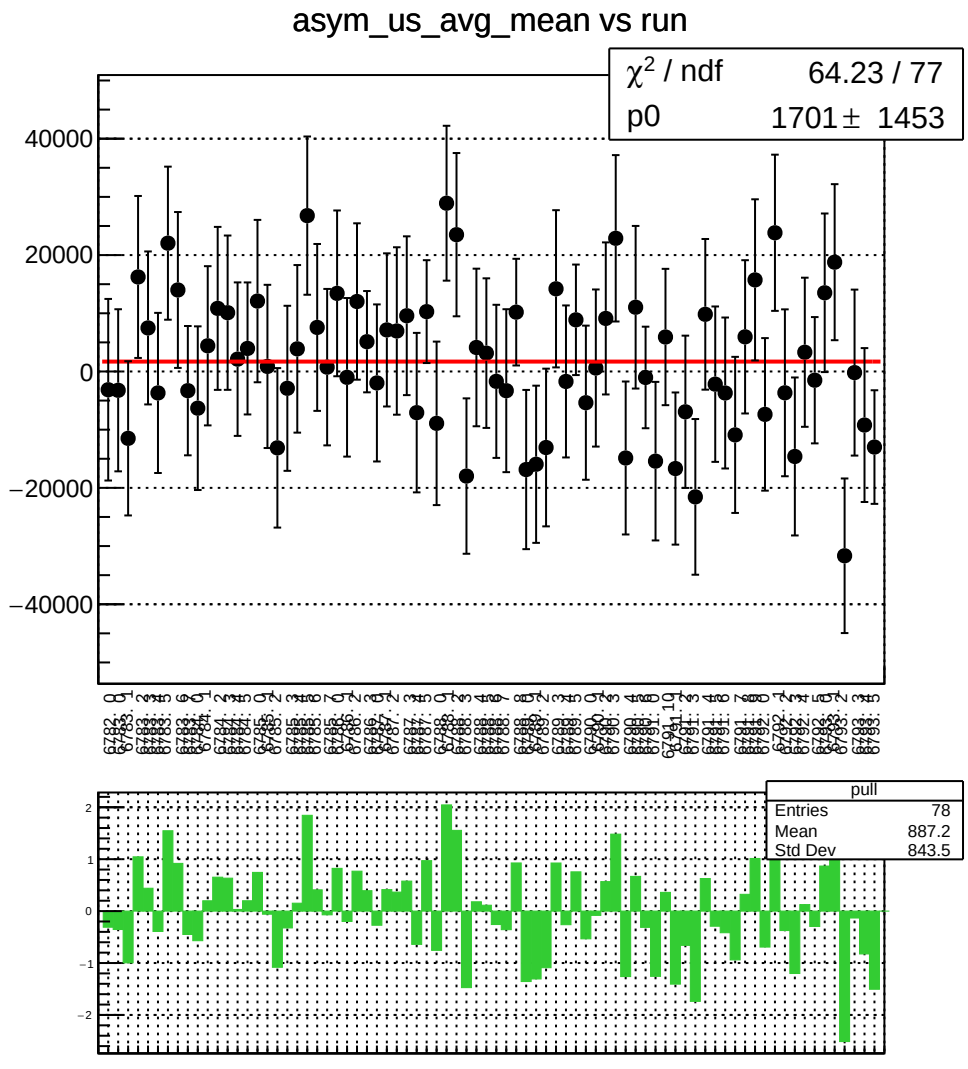

pull1D
Entries 78
Mean −0.01728
Std Dev 0.9443

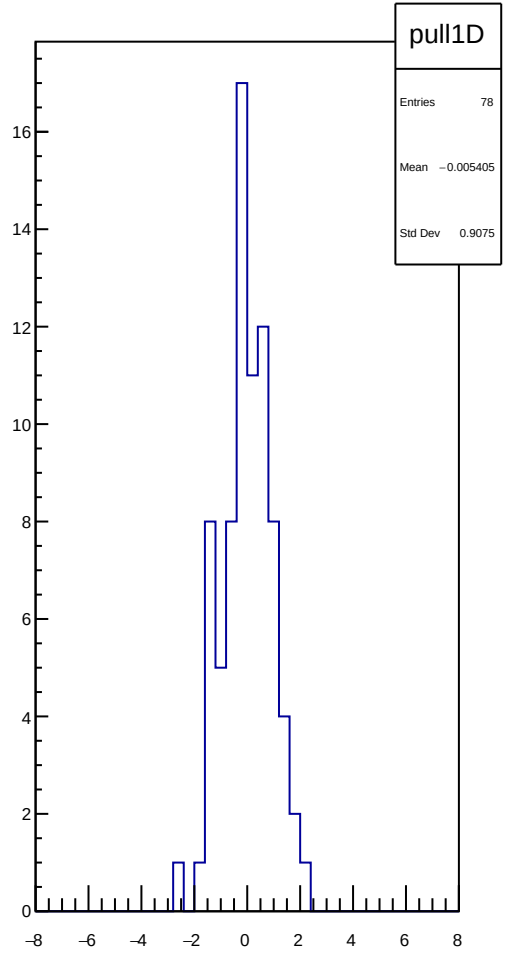

reg_asym_us_avg_rms vs run
χ^2 / ndf 118.2 / 77
p0 782.5 ± 0.625
810
800
790
780
770
760

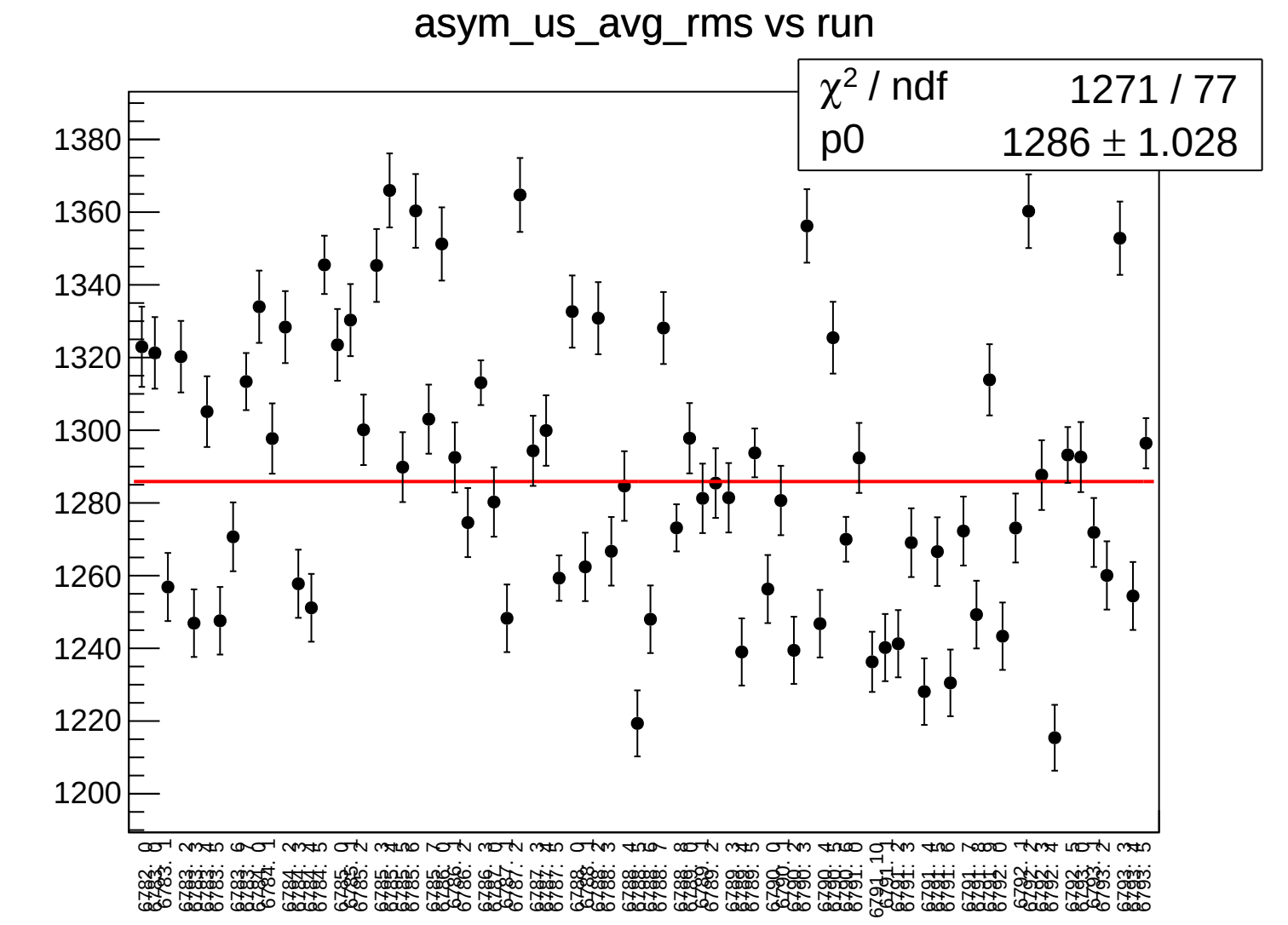

asym_us_avg_correction_mean vs run
χ² / ndf 64.35 / 77
p0 −568.4 ± 1152
pull
Entries 78
Mean −114.9
Std Dev 170.4

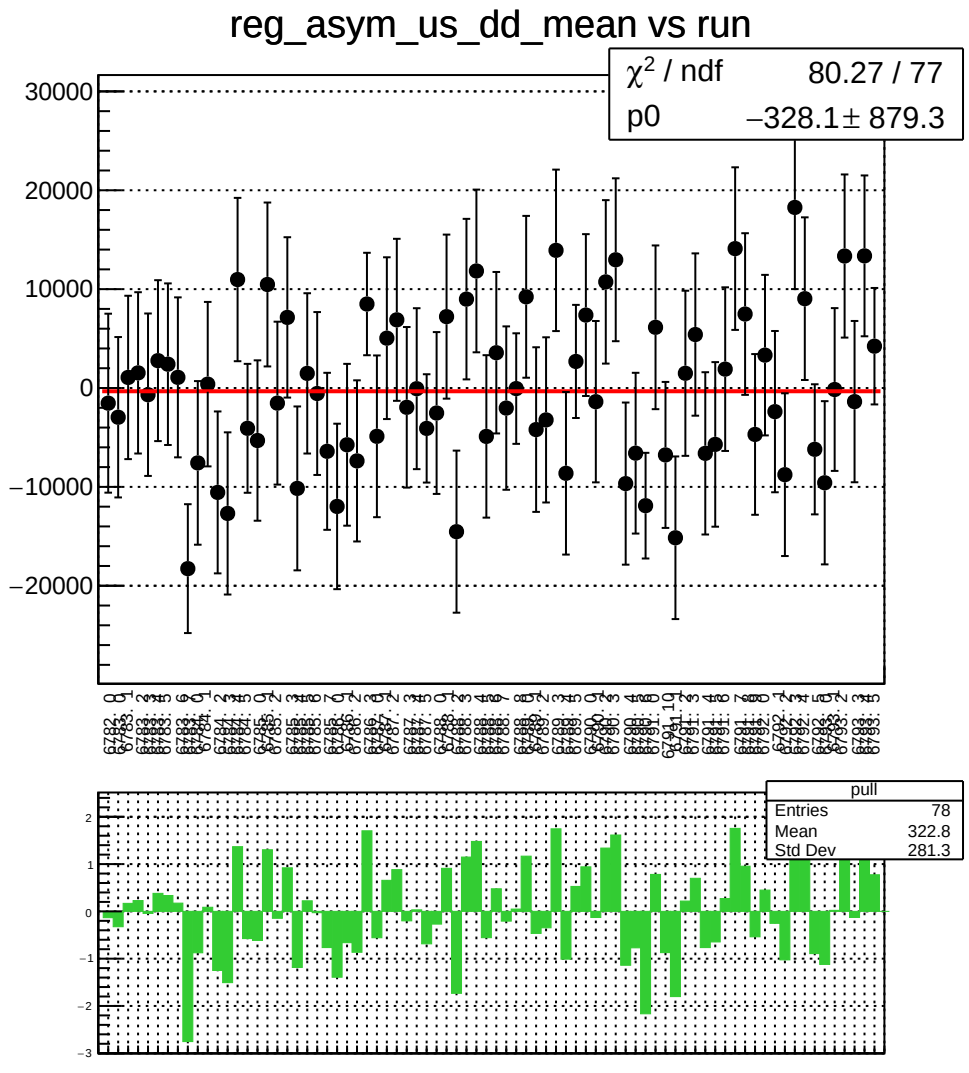

pull1D
Entries 78
Mean −0.006745
Std Dev 0.9082

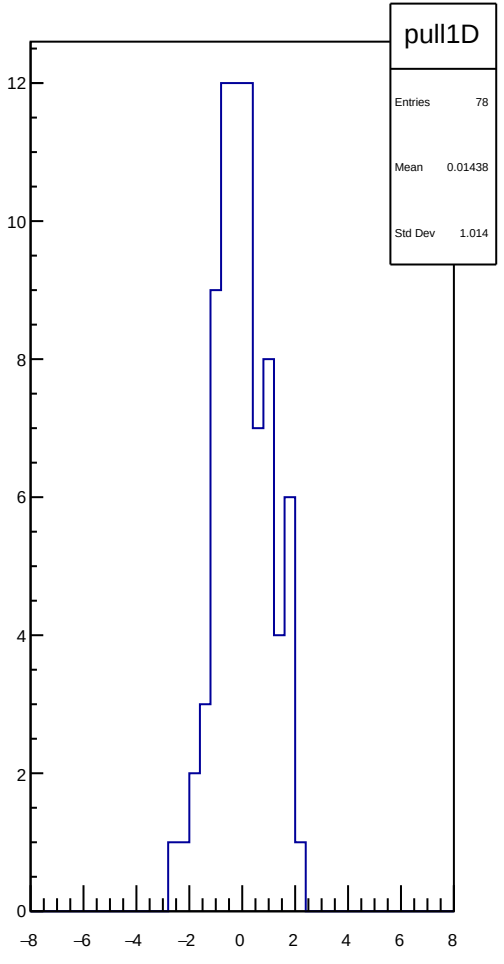

asym_us_avg_correction_rms vs run
χ² / ndf 2936 / 77
p0 1019 ± 0.8145
1150
1100
1050
1000
950

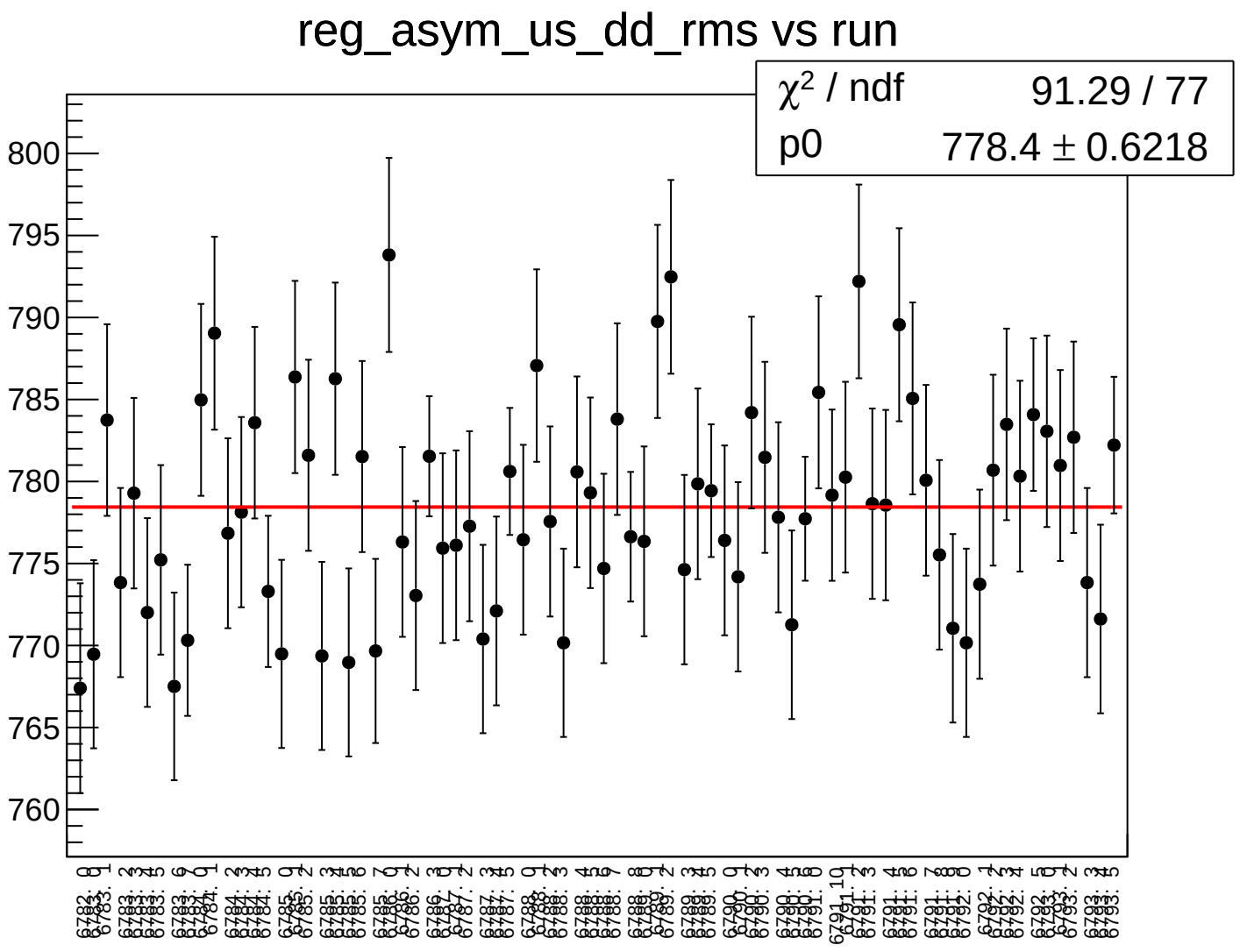

asym_us_avg_mean vs run
χ² / ndf 64.23 / 77
p0 1701 ± 1453
40000
20000
0
−20000
−40000
pull
Entries 78
Mean 887.2
Std Dev 843.5
2
1
0
−1
−2

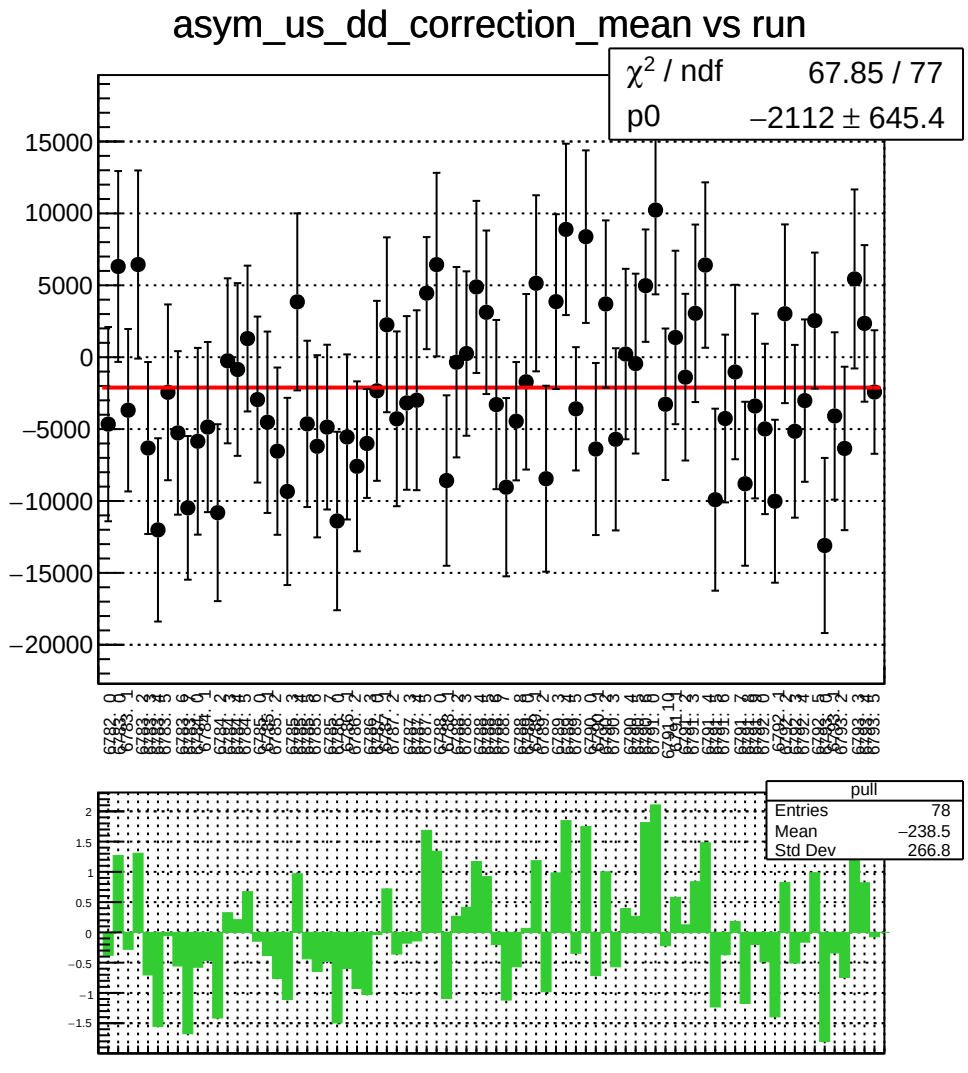

pull1D
Entries 78
Mean −0.005405
Std Dev 0.9075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

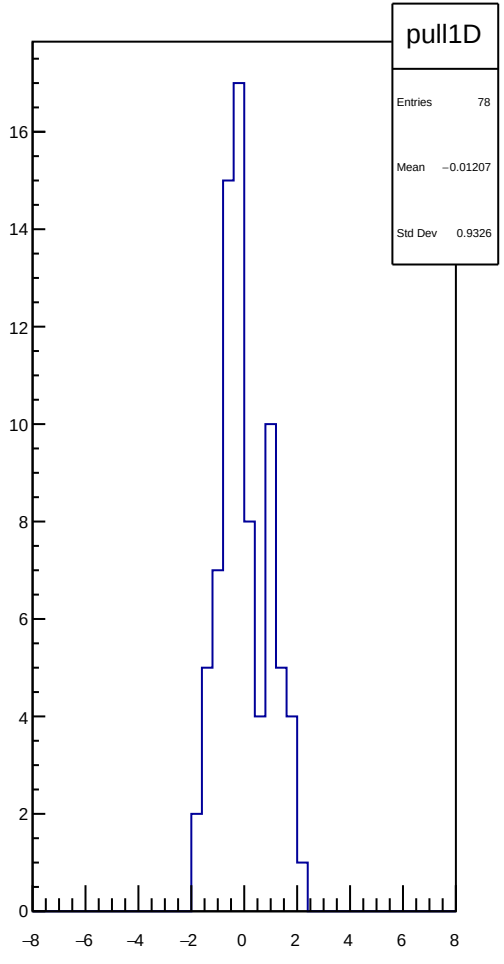

asym_us_avg_rms vs run
χ^2 / ndf 1271 / 77
p0 1286 ± 1.028
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

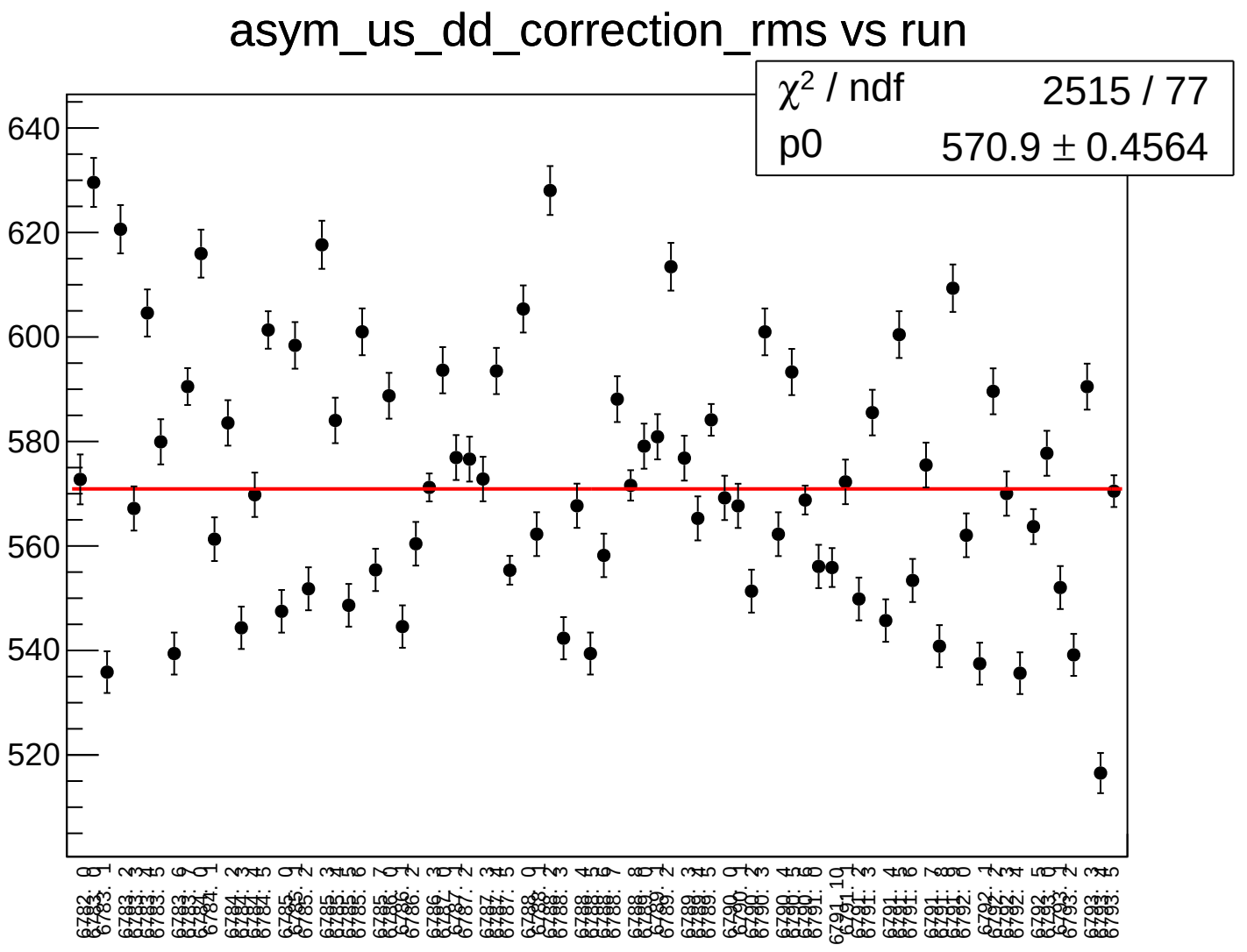

reg_asym_us_dd_mean vs run
χ² / ndf 80.27 / 77
p0 −328.1± 879.3
pull
Entries 78
Mean 322.8
Std Dev 281.3

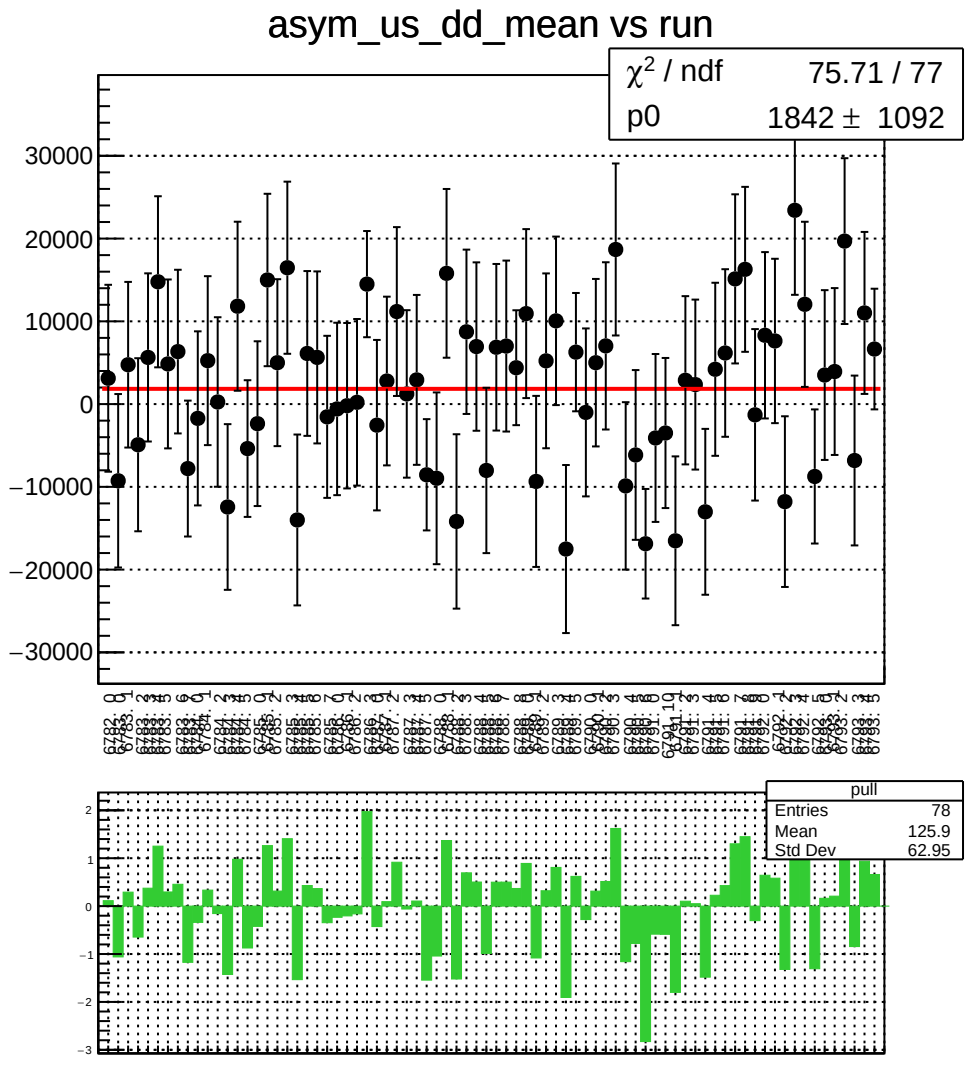

pull1D
Entries 78
Mean 0.01438
Std Dev 1.014

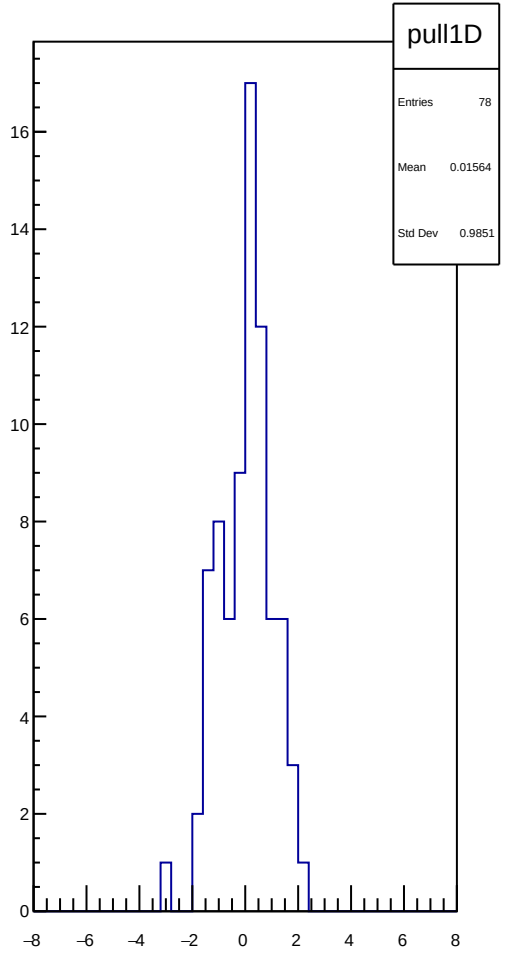

reg_asym_us_dd_rms vs run
χ^2 / ndf 91.29 / 77
p0 778.4 ± 0.6218
800
795
790
785
780
775
770
765
760

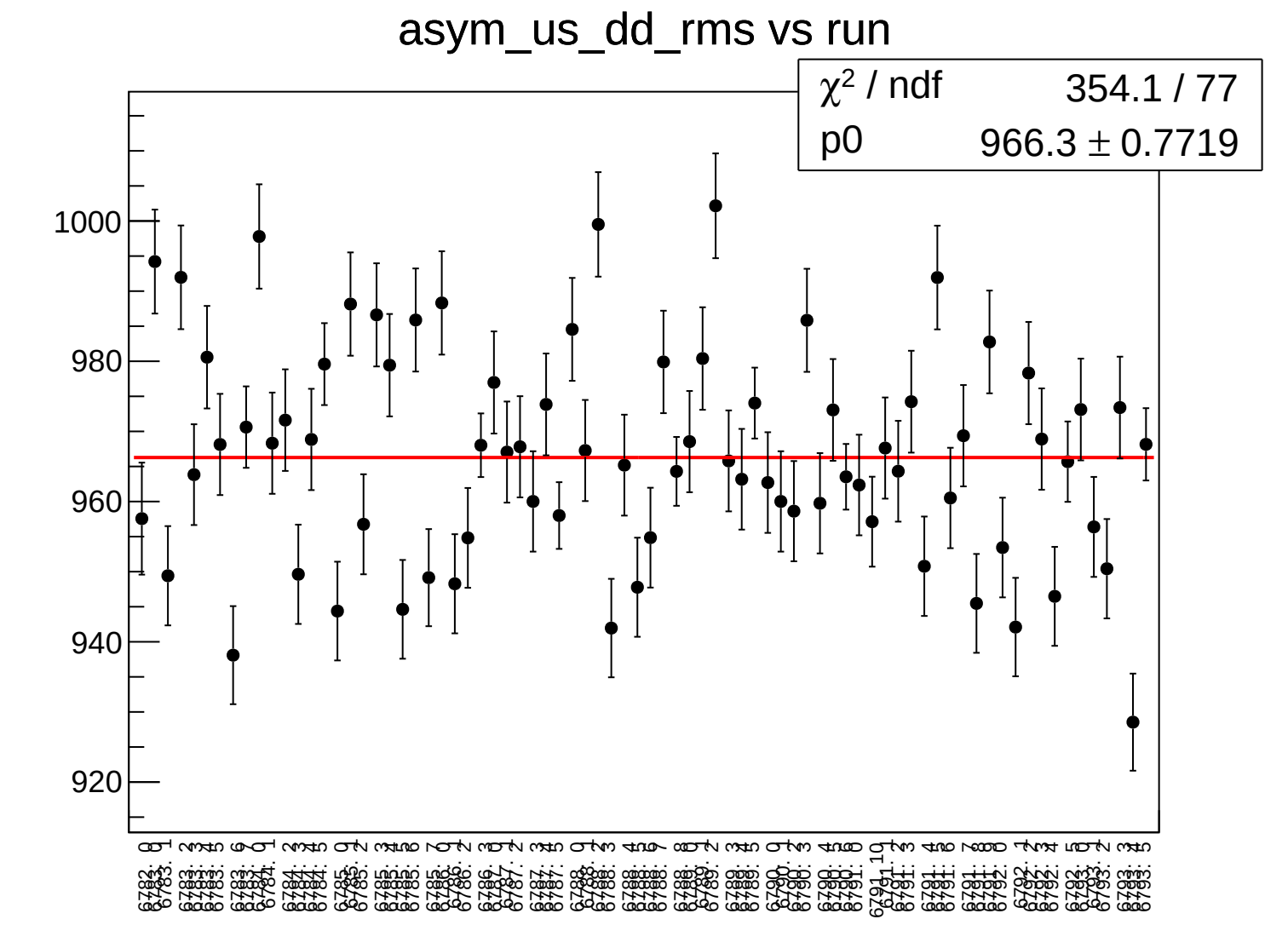

asym_us_dd_correction_mean vs run
χ² / ndf 67.85 / 77
p0 −2112 ± 645.4
pull
Entries 78
Mean −238.5
Std Dev 266.8

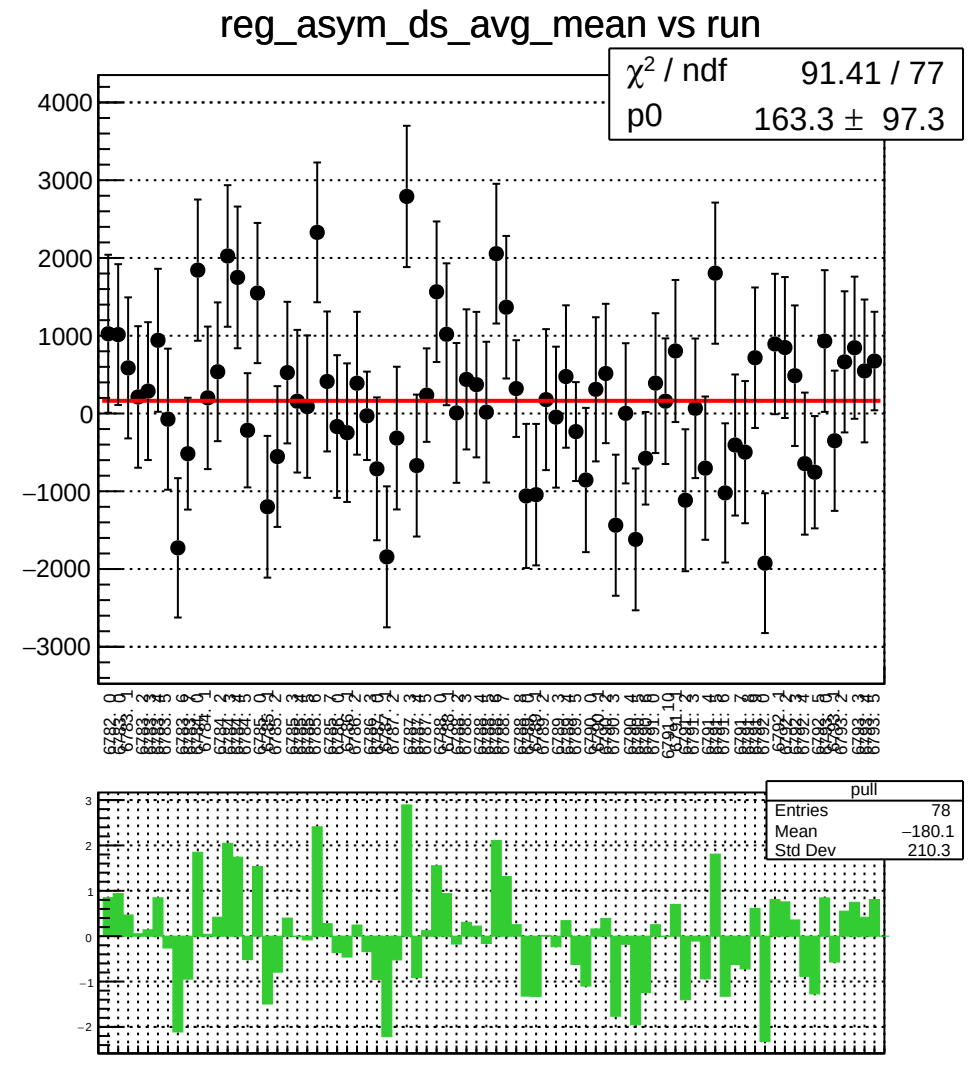

pull1D
Entries 78
Mean −0.01207
Std Dev 0.9326

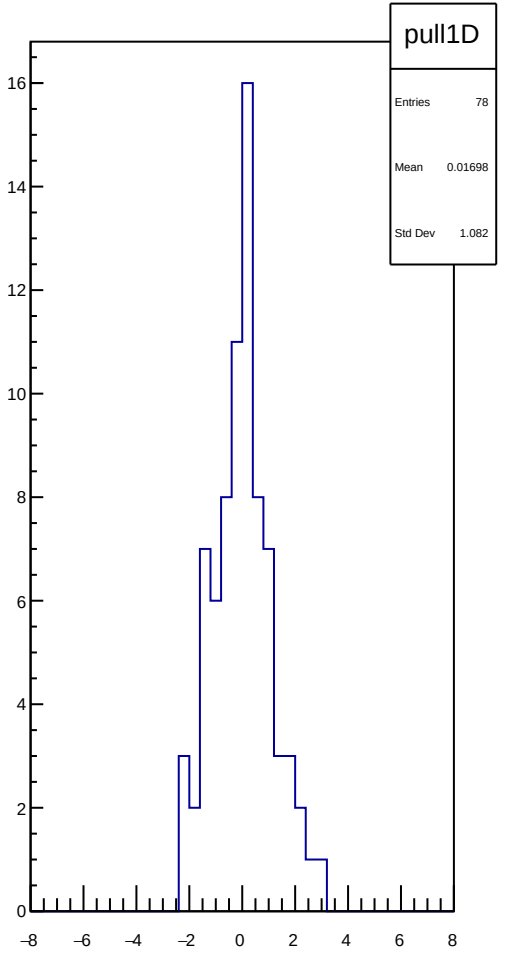

asym_us_dd_correction_rms vs run
χ² / ndf 2515 / 77
p0 570.9 ± 0.4564
640
620
600
580
560
540
520

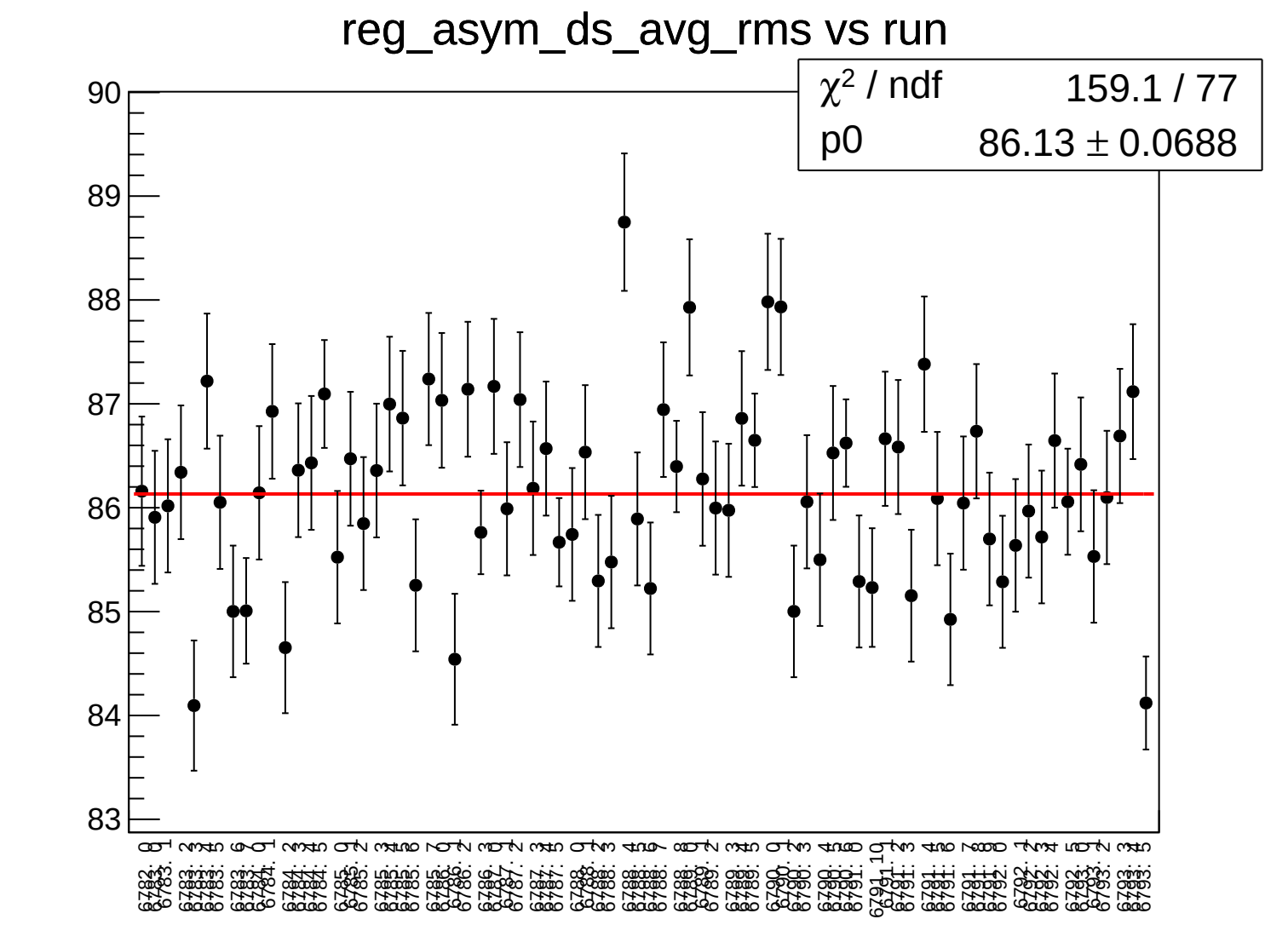

asym_us_dd_mean vs run
χ² / ndf 75.71 / 77
p0 1842 ± 1092
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean 125.9
Std Dev 62.95
2
1
0
−1
−2
−3

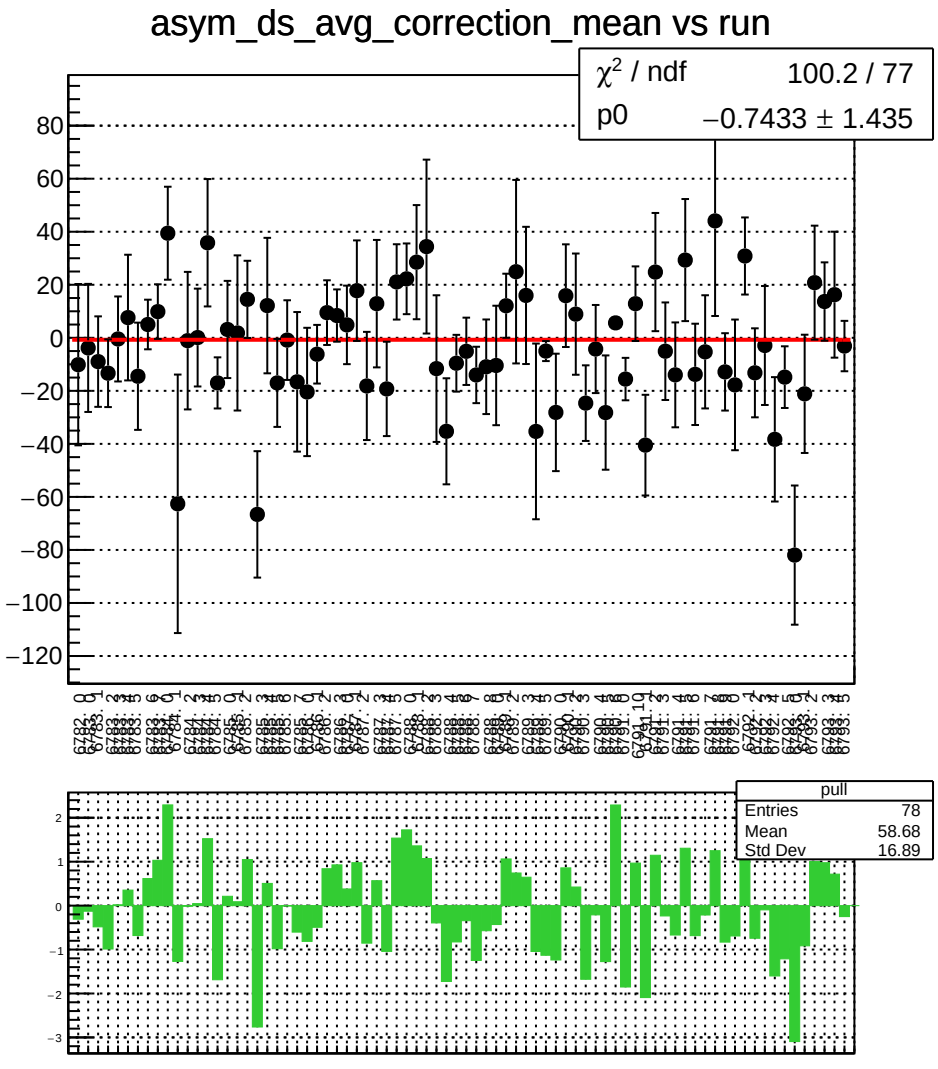

pull1D
Entries 78
Mean 0.01564
Std Dev 0.9851
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

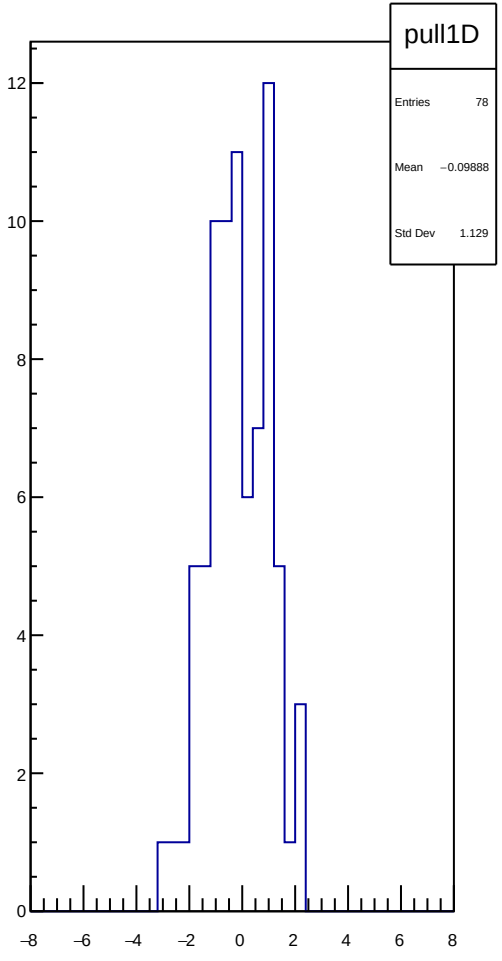

asym_us_dd_rms vs run
χ^2 / ndf 354.1 / 77
p0 966.3 ± 0.7719
1000
980
960
940
920

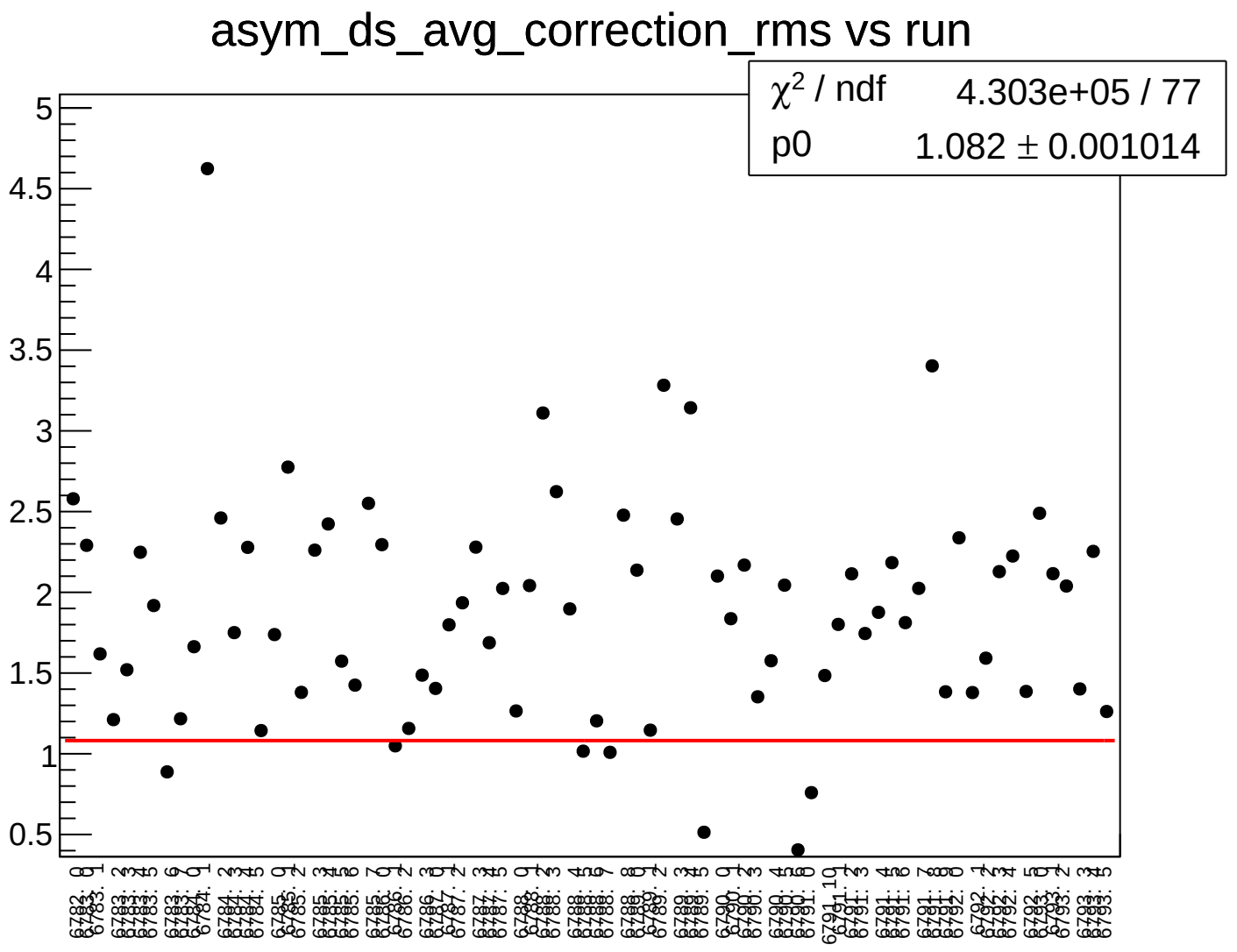

reg_asym_ds_avg_mean vs run
χ² / ndf 91.41 / 77
p0 163.3 ± 97.3
pull
Entries 78
Mean −180.1
Std Dev 210.3

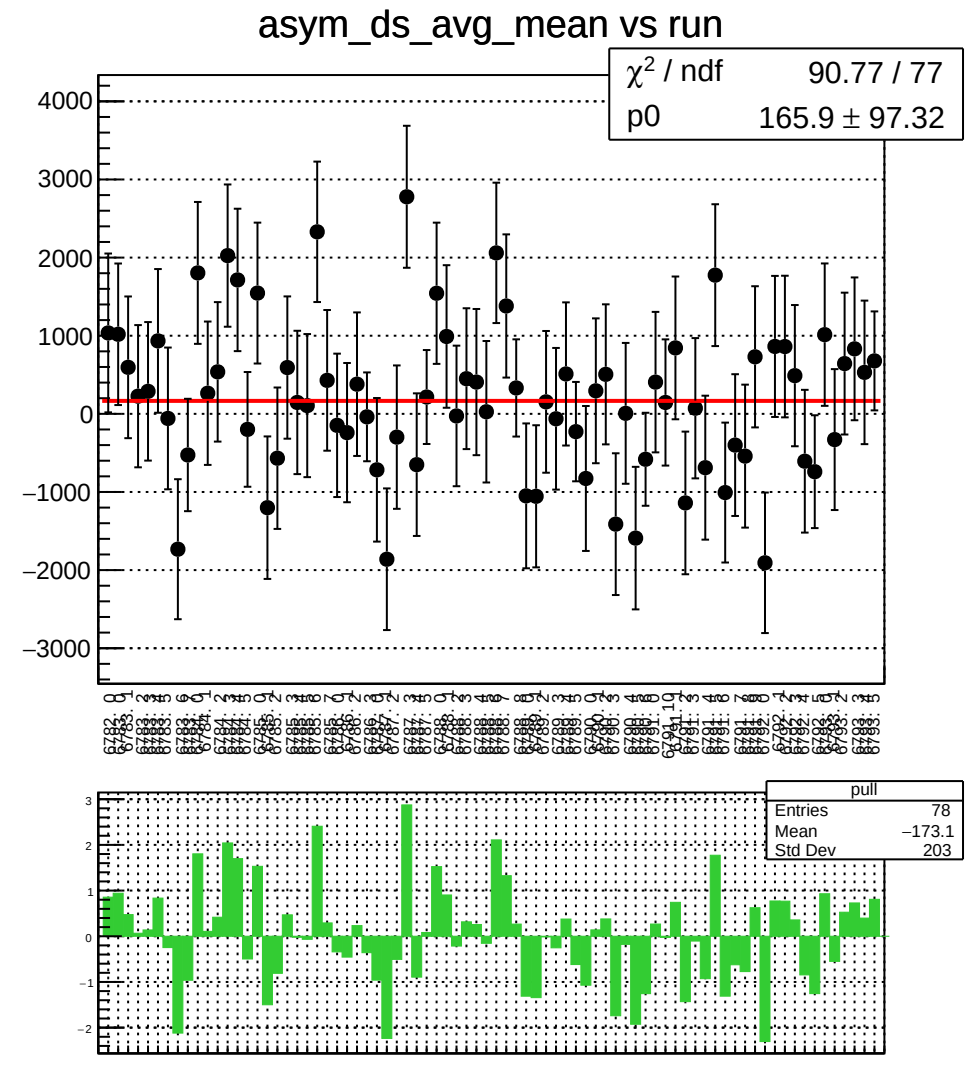

pull1D
Entries 78
Mean 0.01698
Std Dev 1.082

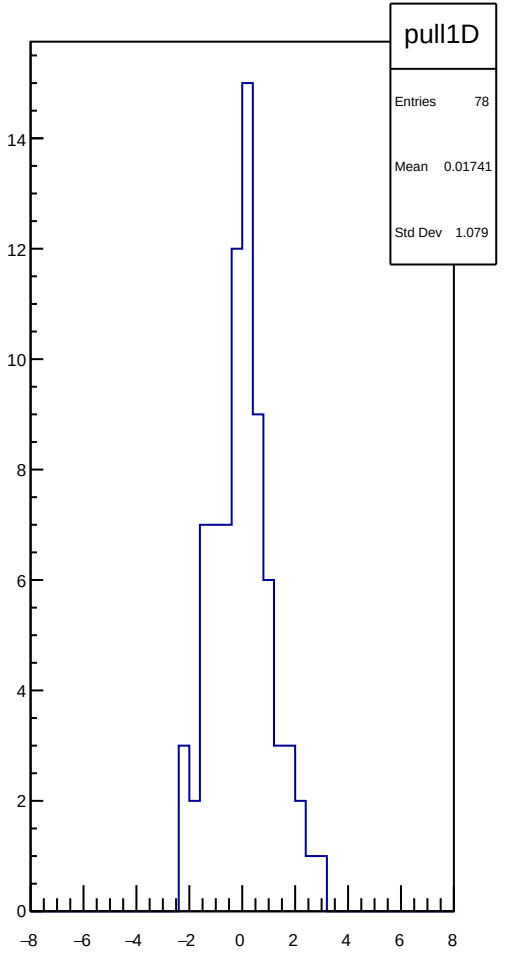

reg_asym_ds_avg_rms vs run
χ^2 / ndf 159.1 / 77
p0 86.13 ± 0.0688
90
89
88
87
86
85
84
83

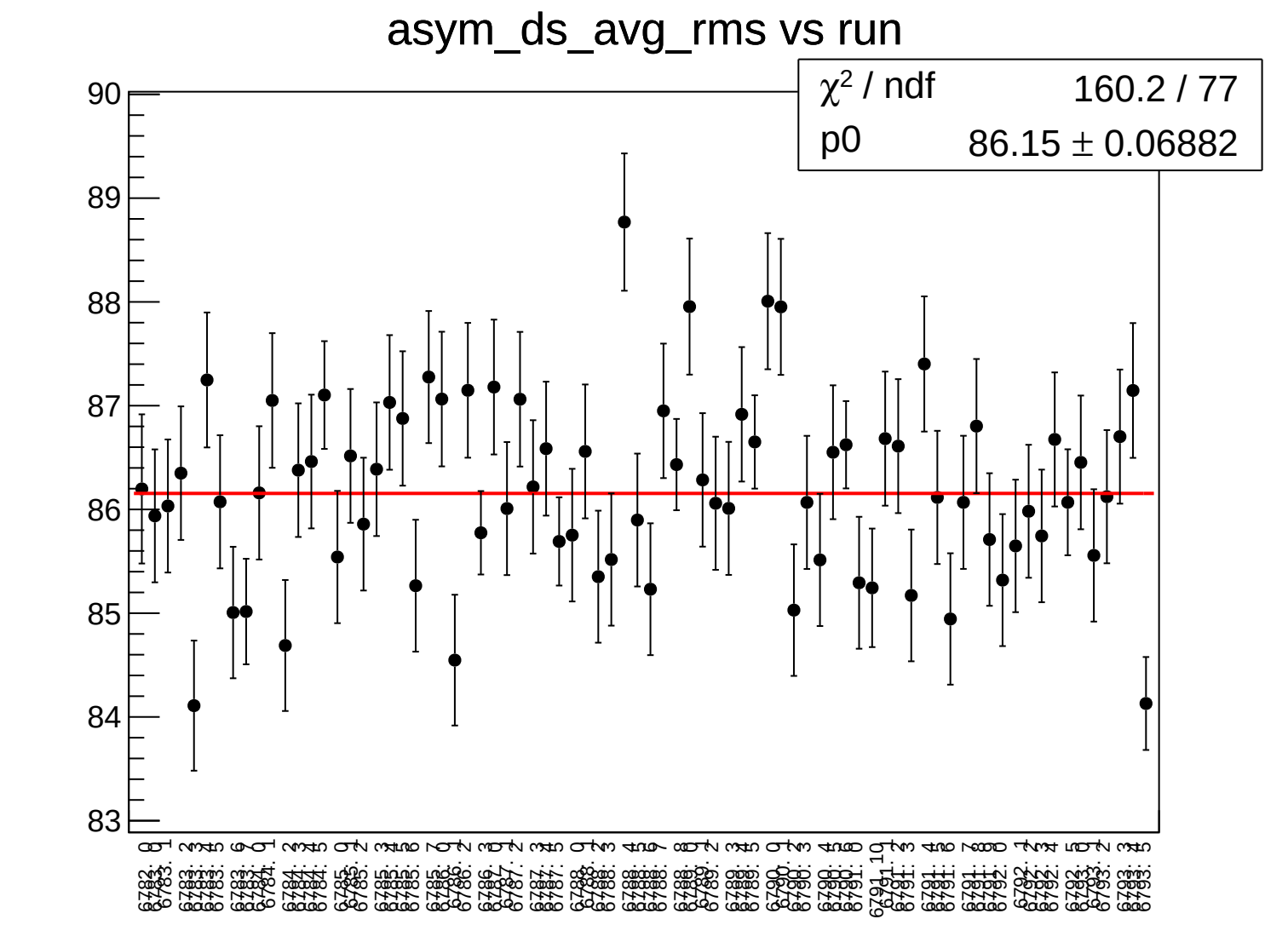

asym_ds_avg_correction_mean vs run
χ² / ndf 100.2 / 77
p0 −0.7433 ± 1.435
pull
Entries 78
Mean 58.68
Std Dev 16.89

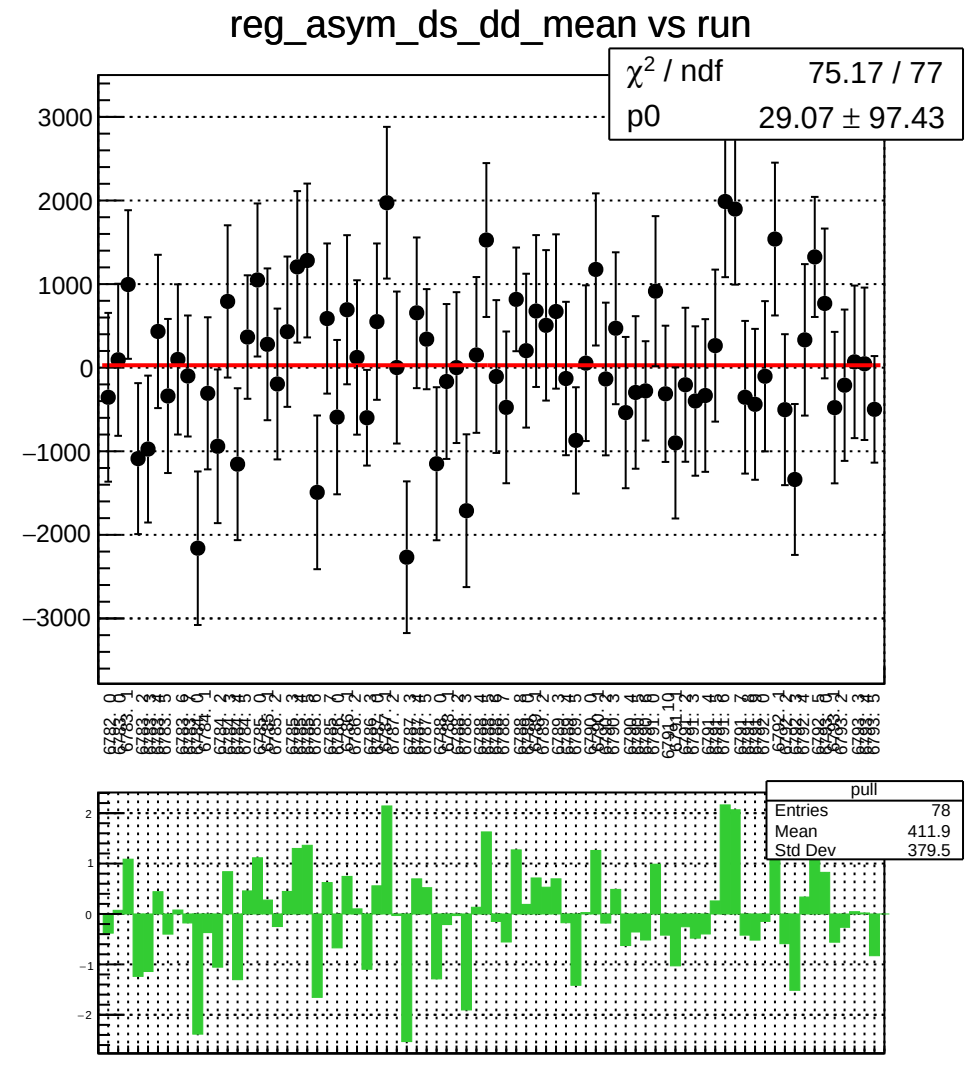

pull1D
Entries 78
Mean −0.09888
Std Dev 1.129

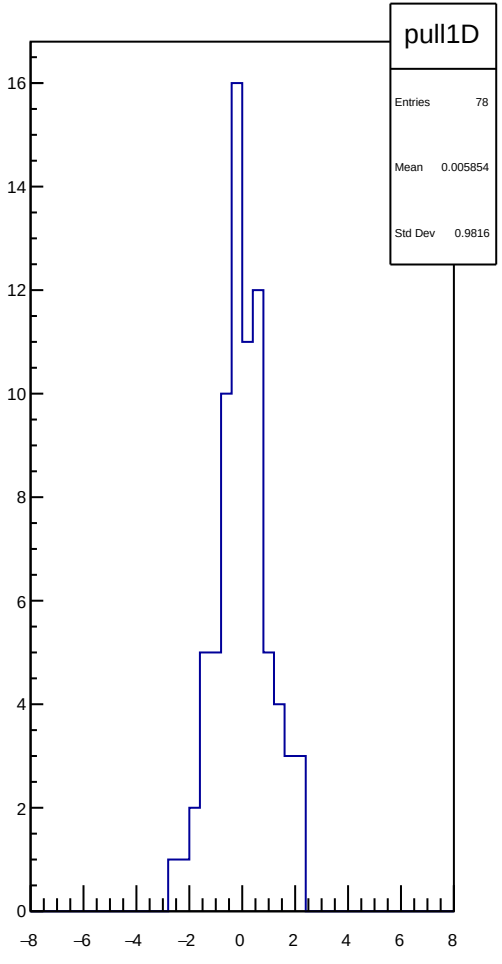

asym_ds_avg_correction_rms vs run
χ^2 / ndf 4.303e+05 / 77
p0 1.082 ± 0.001014
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5

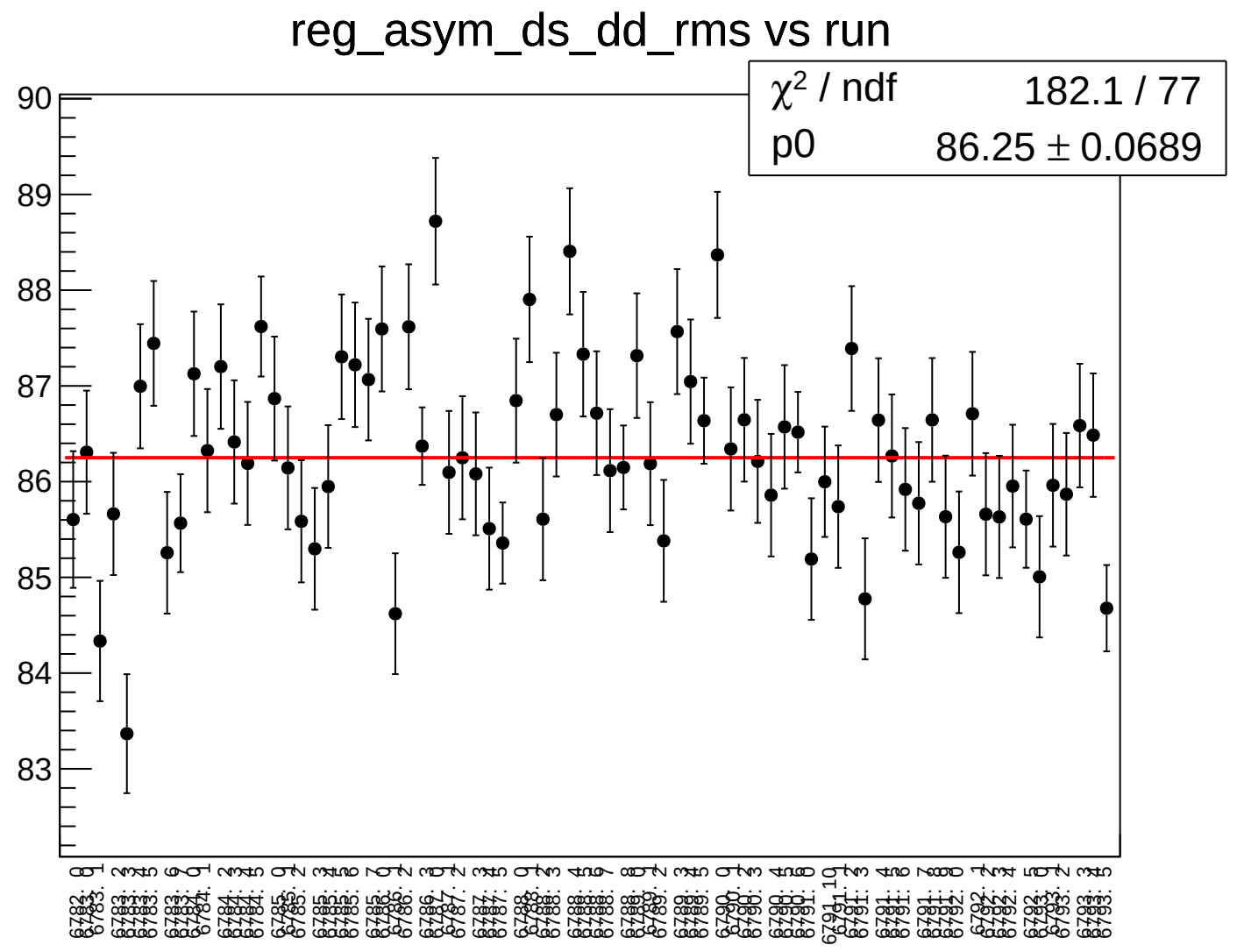

asym_ds_avg_mean vs run
χ^2 / ndf 90.77 / 77
p0 165.9 ± 97.32
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 78
Mean −173.1
Std Dev 203
3
2
1
0
−1
−2

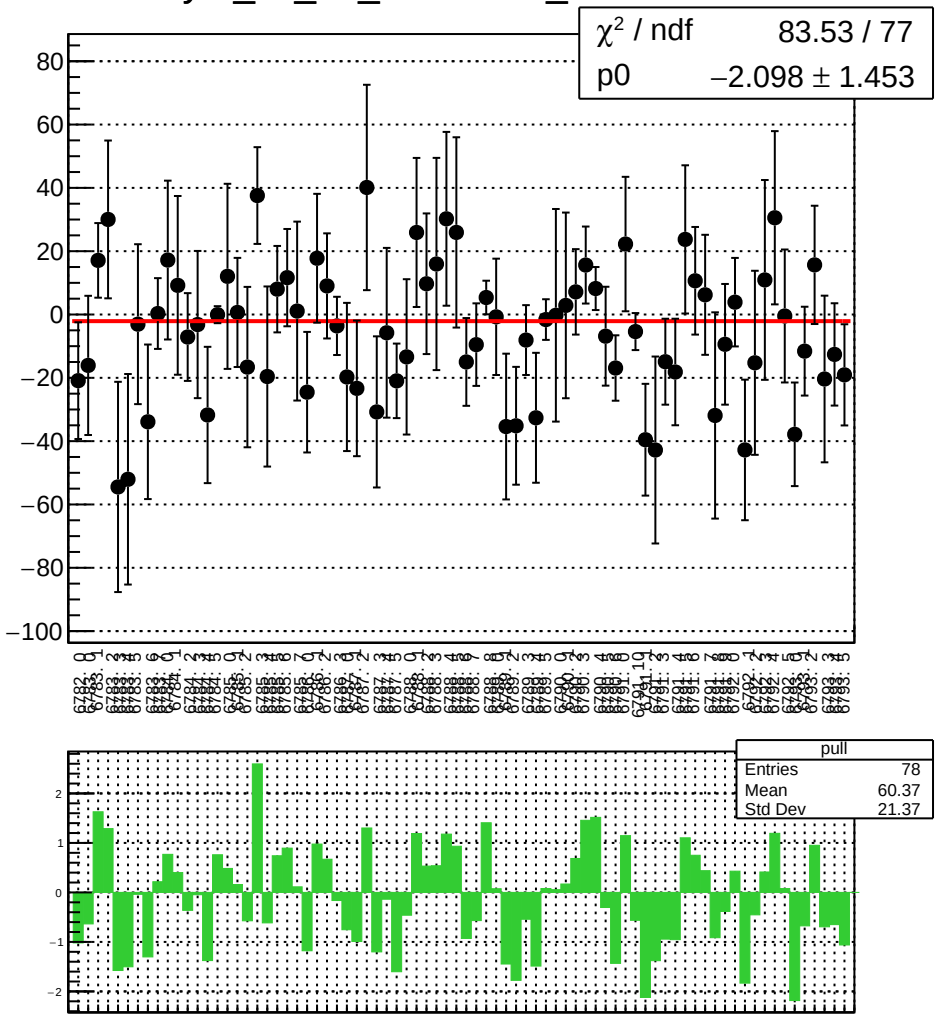

pull1D
Entries 78
Mean 0.01741
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

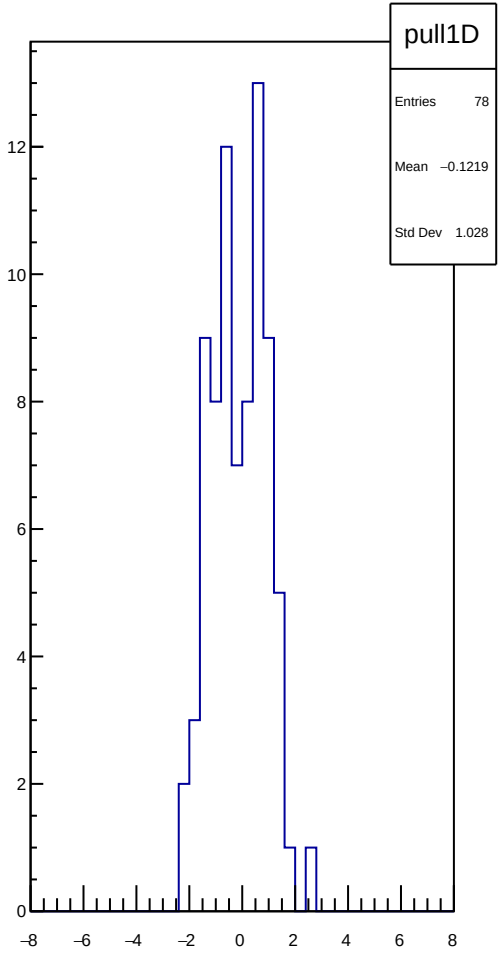

asym_ds_avg_rms vs run
χ^2 / ndf 160.2 / 77
p0 86.15 ± 0.06882
90
89
88
87
86
85
84
83

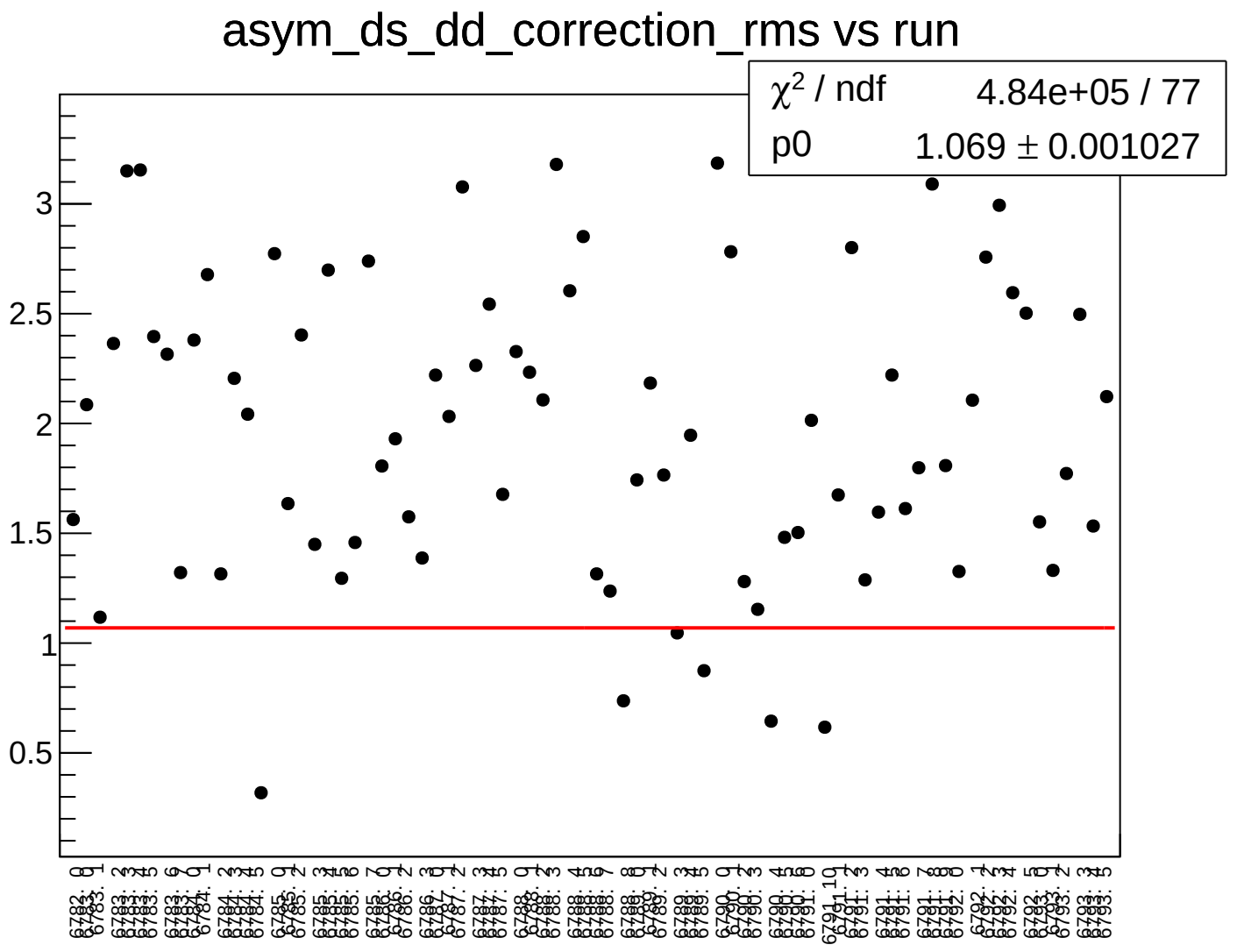

reg_asym_ds_dd_mean vs run
χ² / ndf 75.17 / 77
p0 29.07 ± 97.43
pull
Entries 78
Mean 411.9
Std Dev 379.5

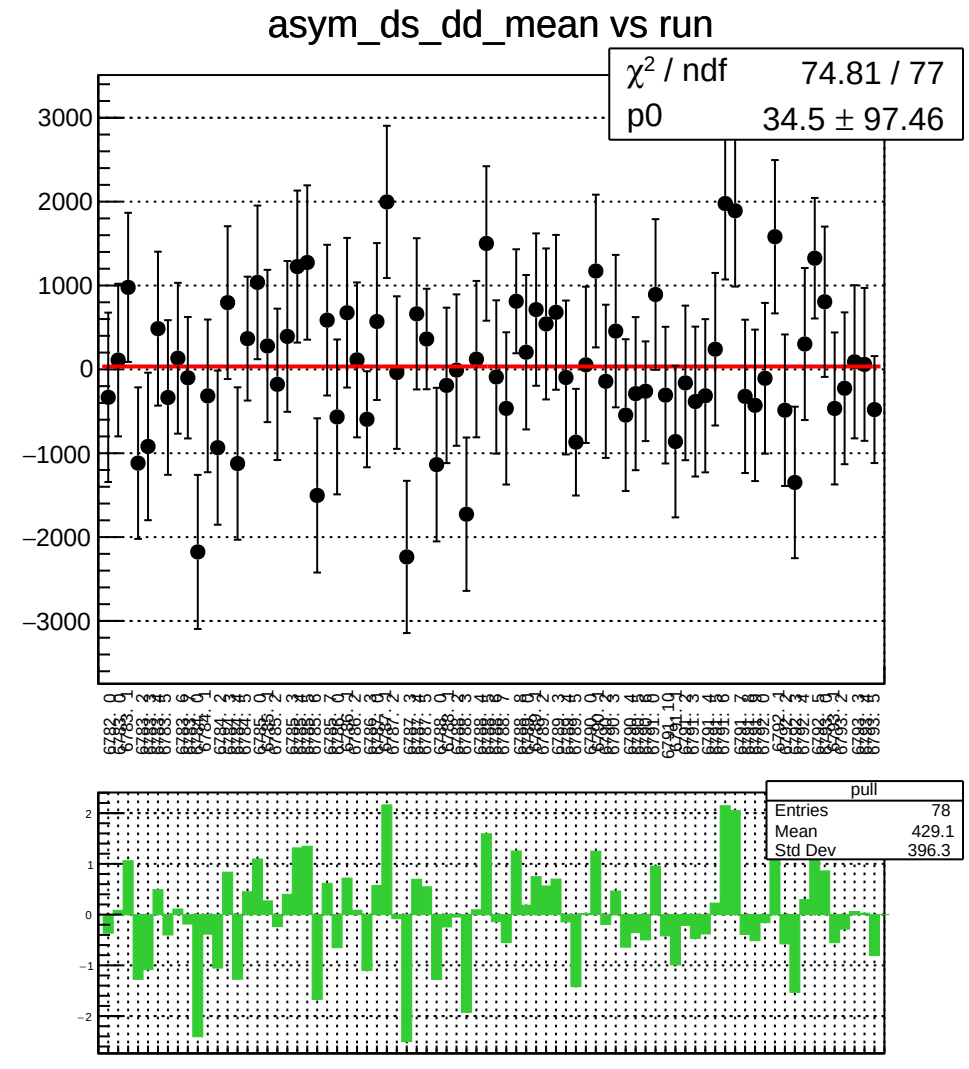

pull1D
Entries 78
Mean 0.005854
Std Dev 0.9816

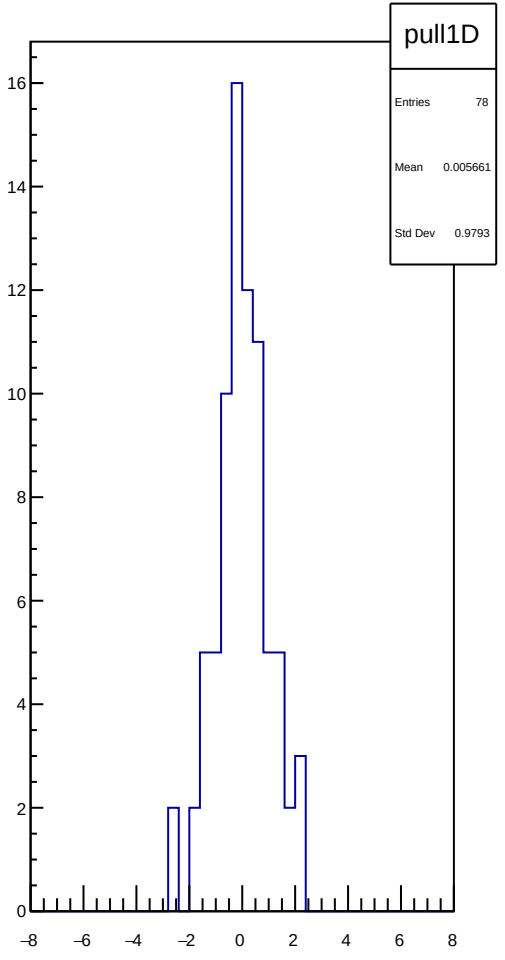

reg_asym_ds_dd_rms vs run
χ² / ndf 182.1 / 77
p0 86.25 ± 0.0689
90
89
88
87
86
85
84
83

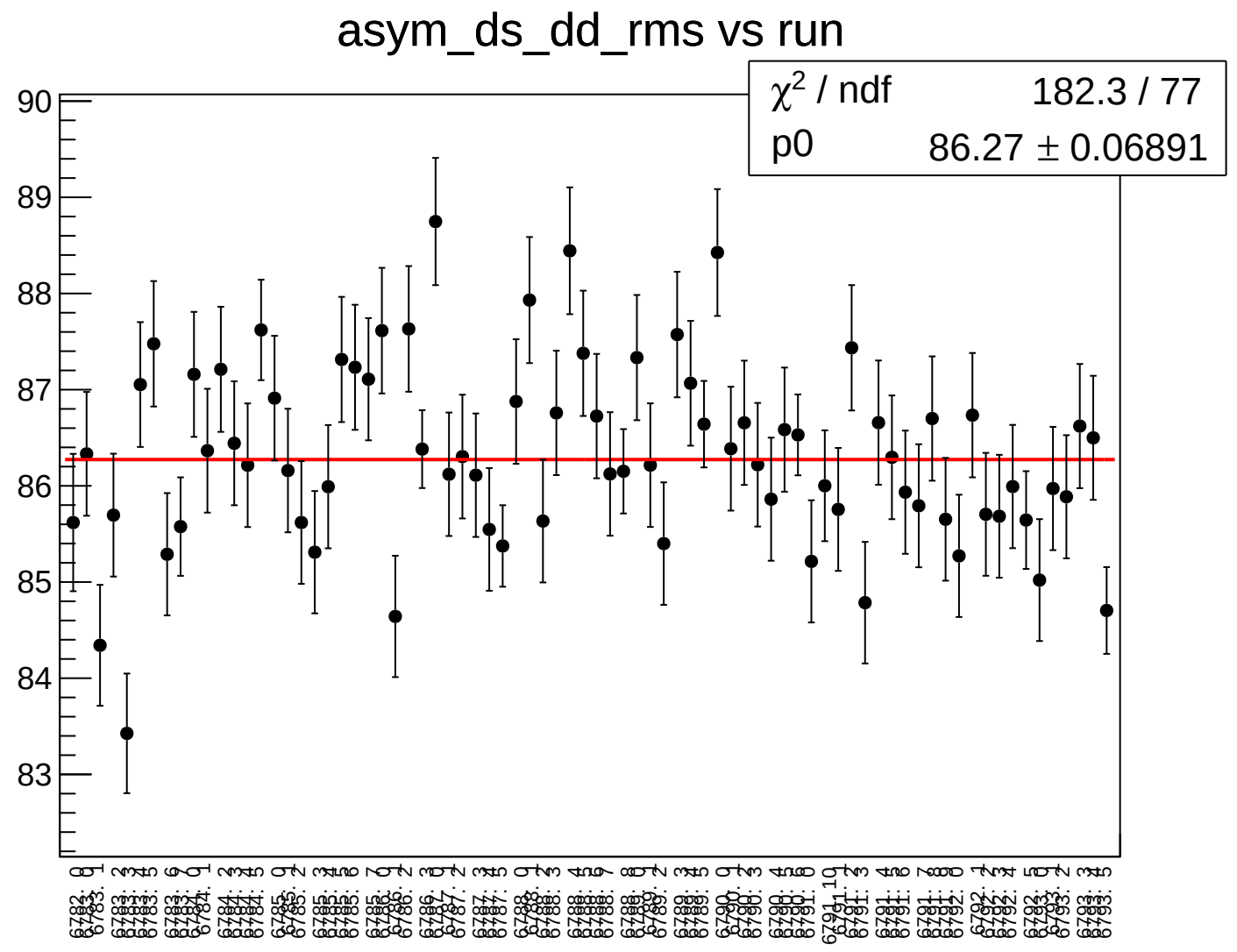

asym_ds_dd_correction_mean vs run
χ² / ndf 83.53 / 77
p0 −2.098 ± 1.453
pull
Entries 78
Mean 60.37
Std Dev 21.37

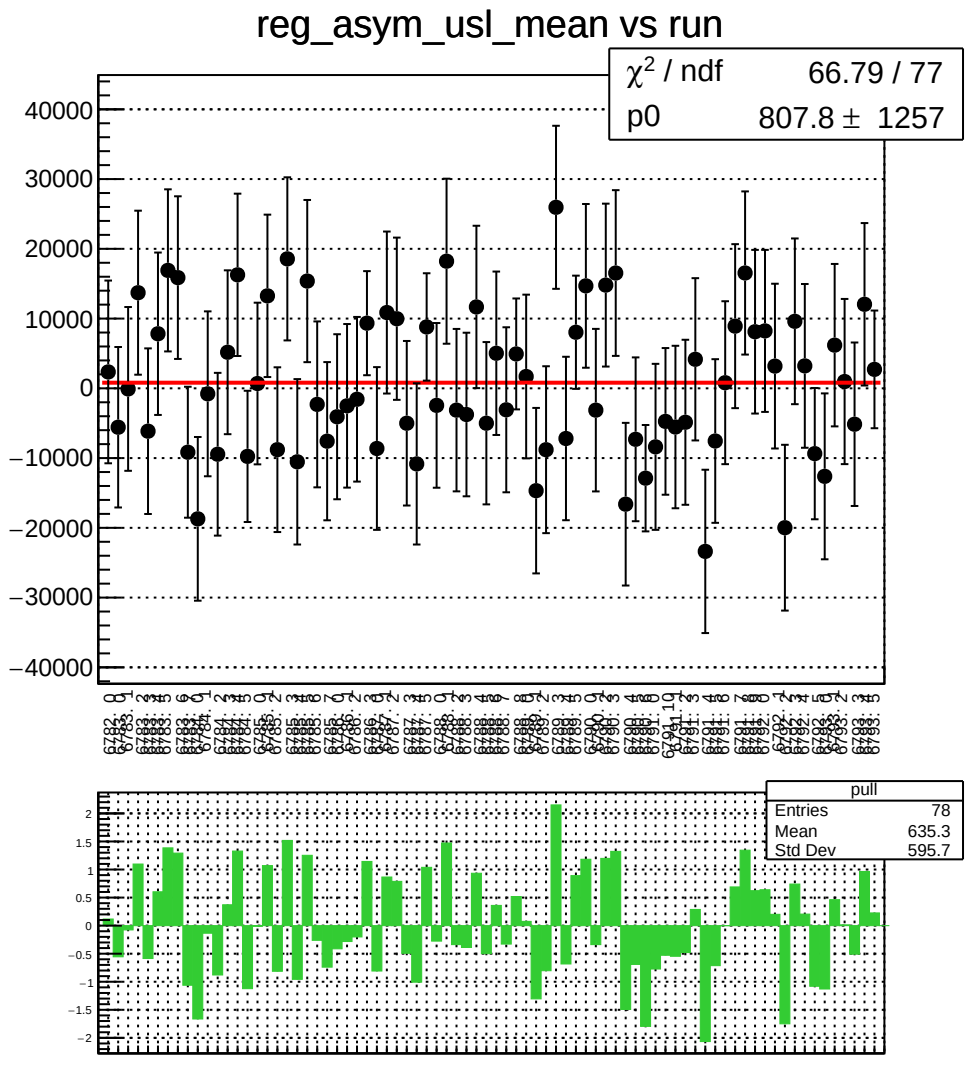

pull1D
Entries 78
Mean −0.1219
Std Dev 1.028

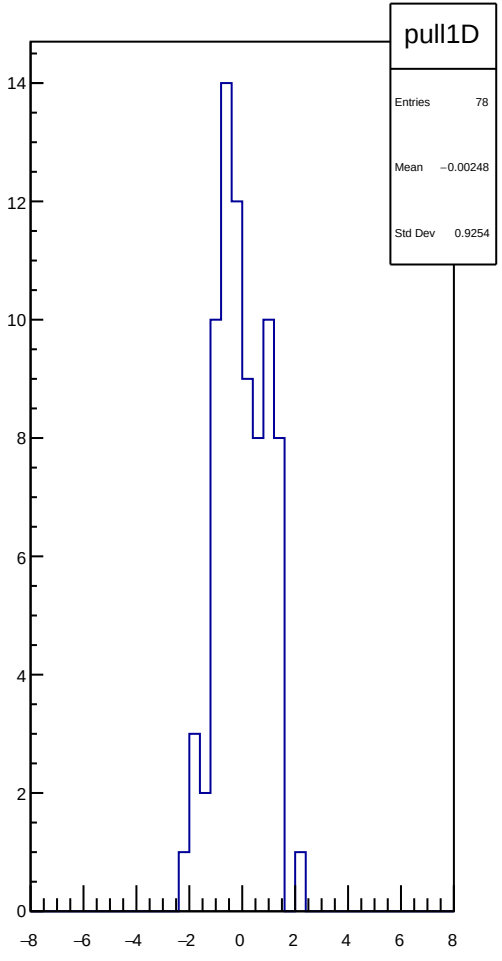

asym_ds_dd_correction_rms vs run
χ^2 / ndf 4.84e+05 / 77
p0 1.069 ± 0.001027
3
2.5
2
1.5
1
0.5

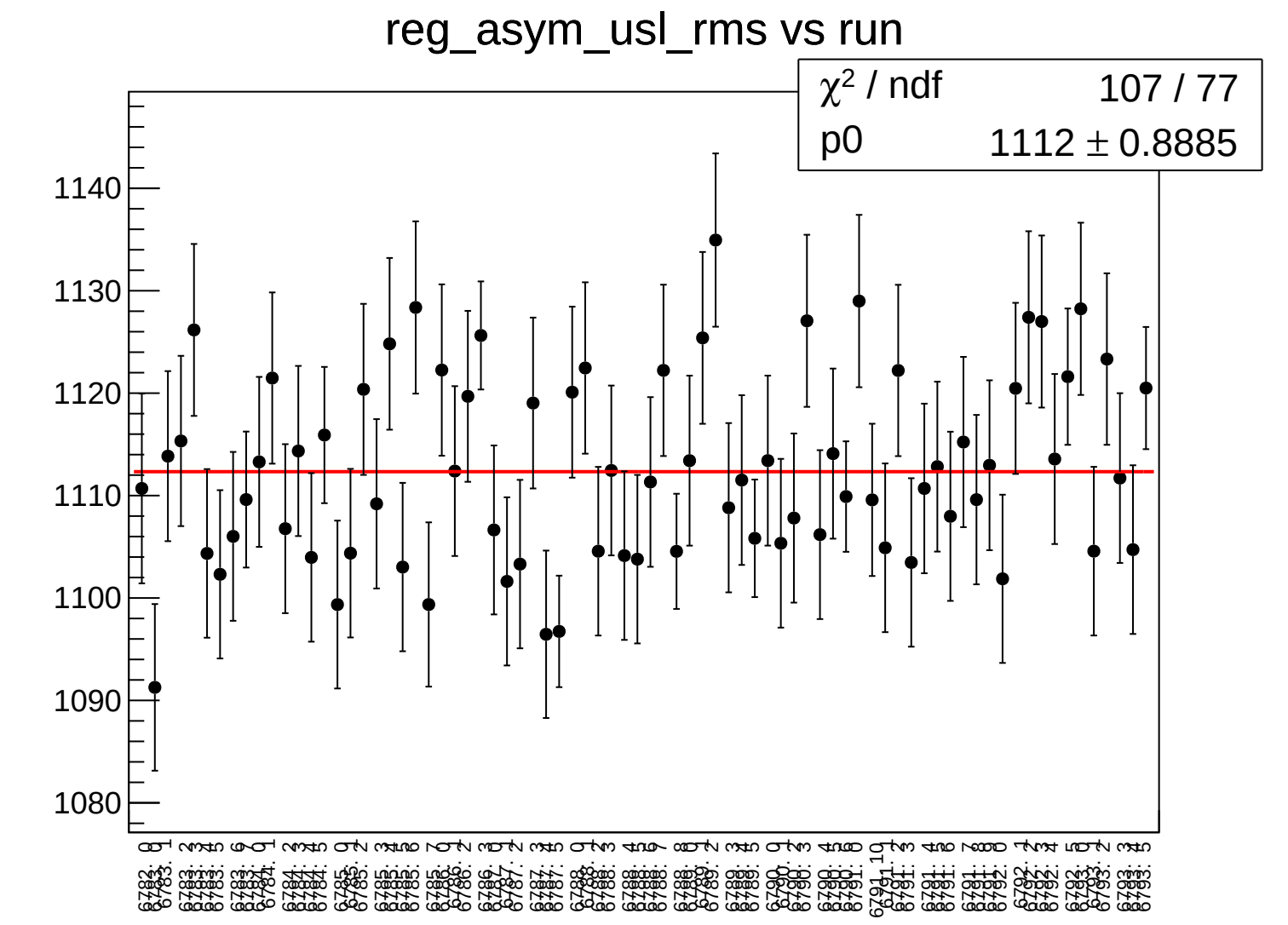

asym_ds_dd_mean vs run
χ² / ndf 74.81 / 77
p0 34.5 ± 97.46
pull
Entries 78
Mean 429.1
Std Dev 396.3

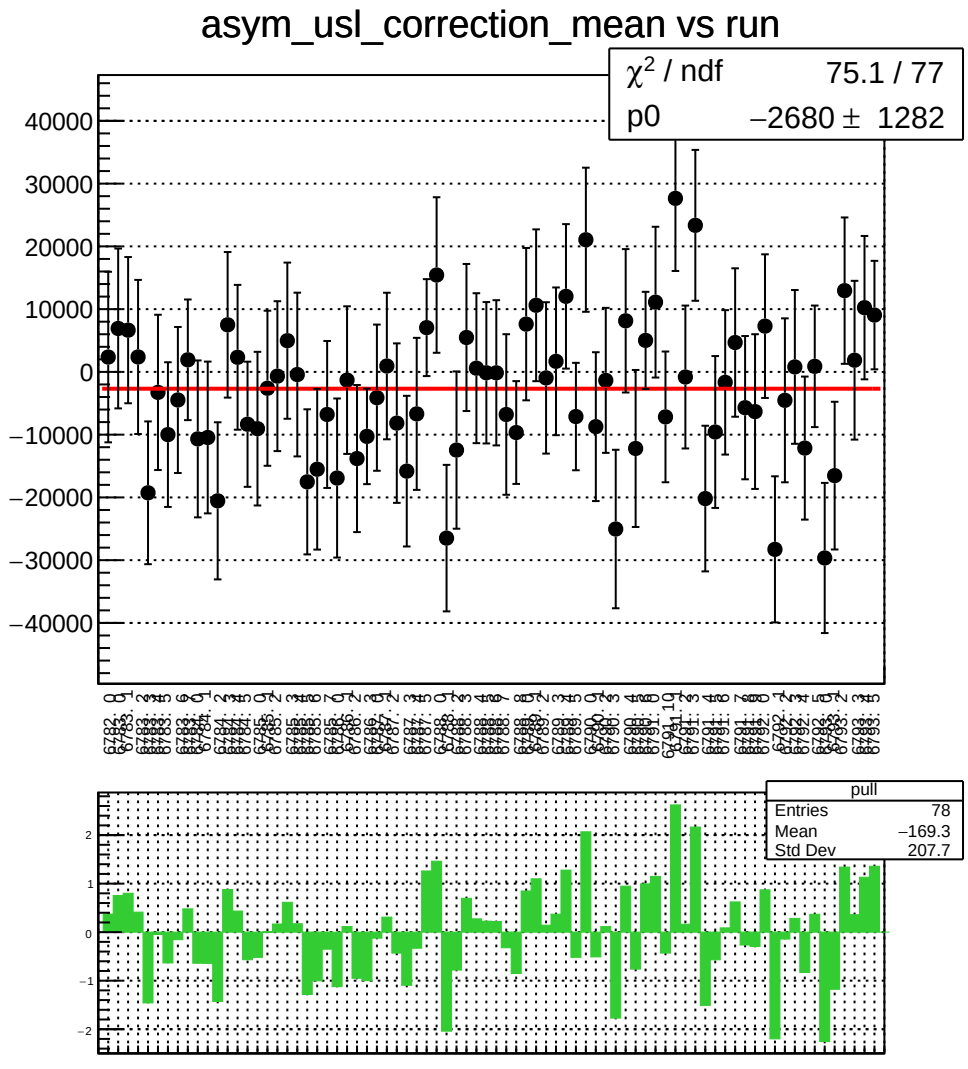

pull1D
Entries 78
Mean 0.005661
Std Dev 0.9793

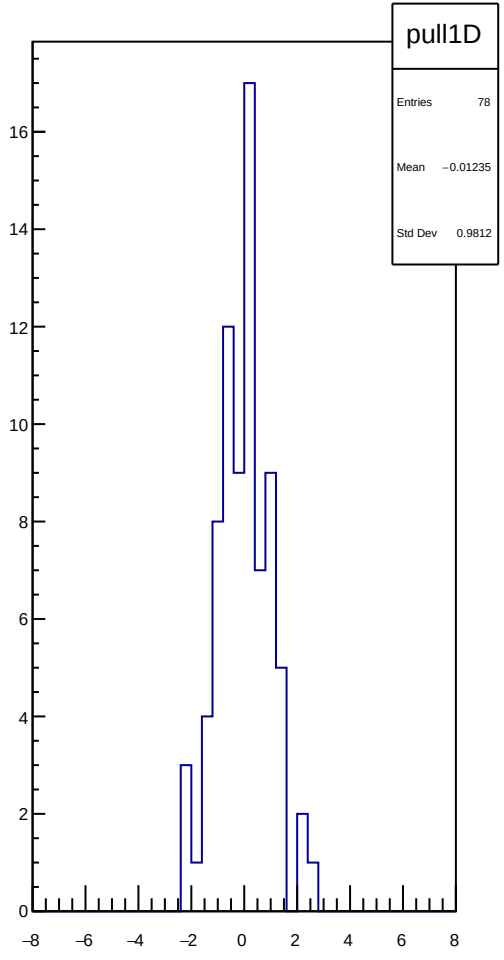

asym_ds_dd_rms vs run
χ^2 / ndf 182.3 / 77
p0 86.27 ± 0.06891
90
89
88
87
86
85
84
83

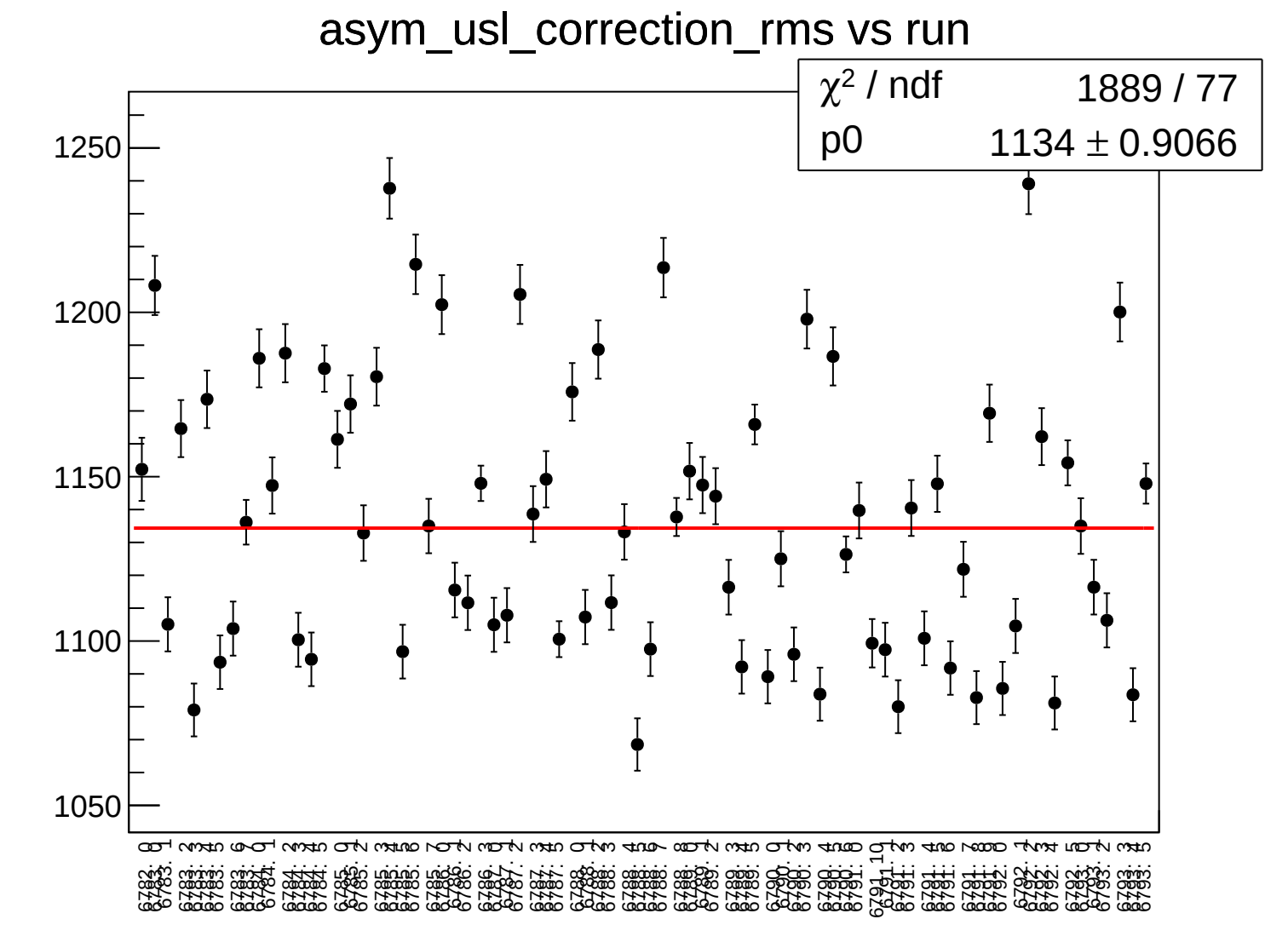

reg_asym_usl_mean vs run
χ² / ndf 66.79 / 77
p0 807.8 ± 1257
pull
Entries 78
Mean 635.3
Std Dev 595.7

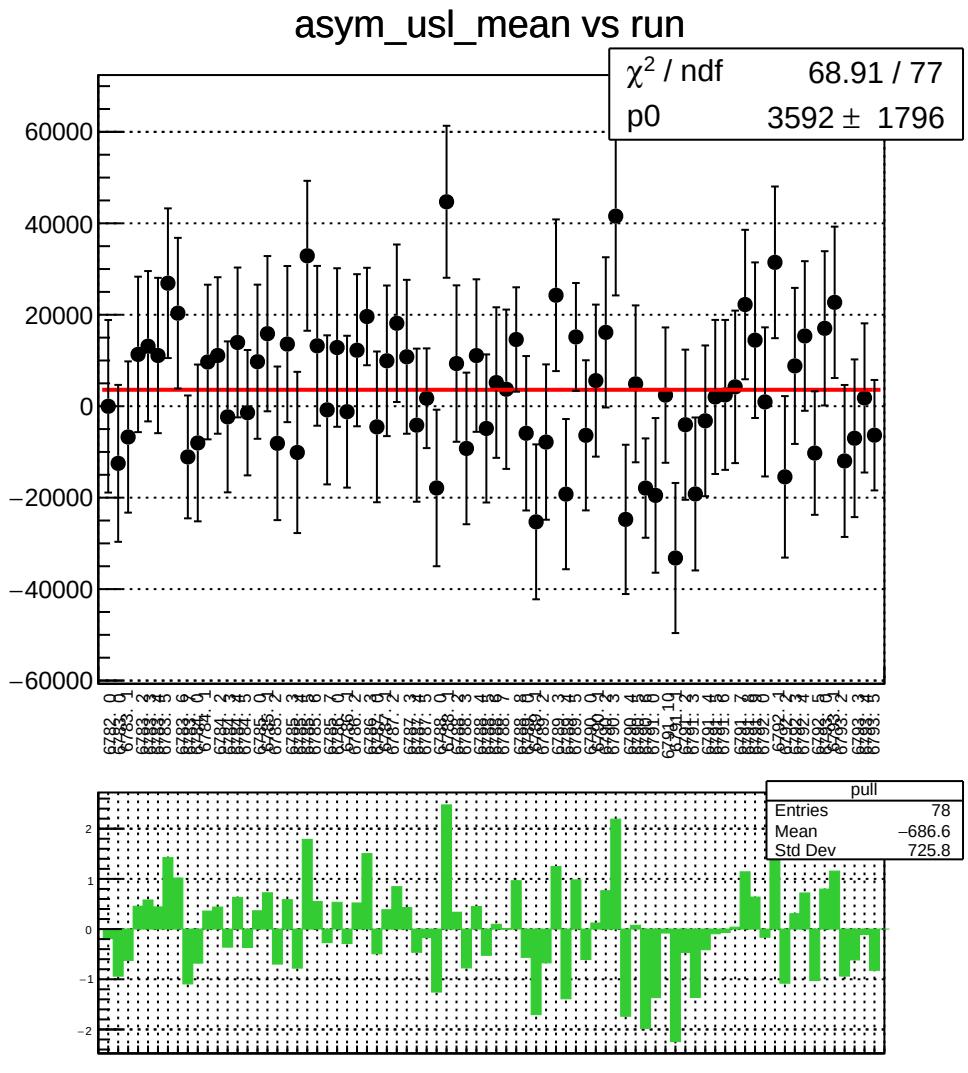

pull1D
Entries 78
Mean −0.00248
Std Dev 0.9254

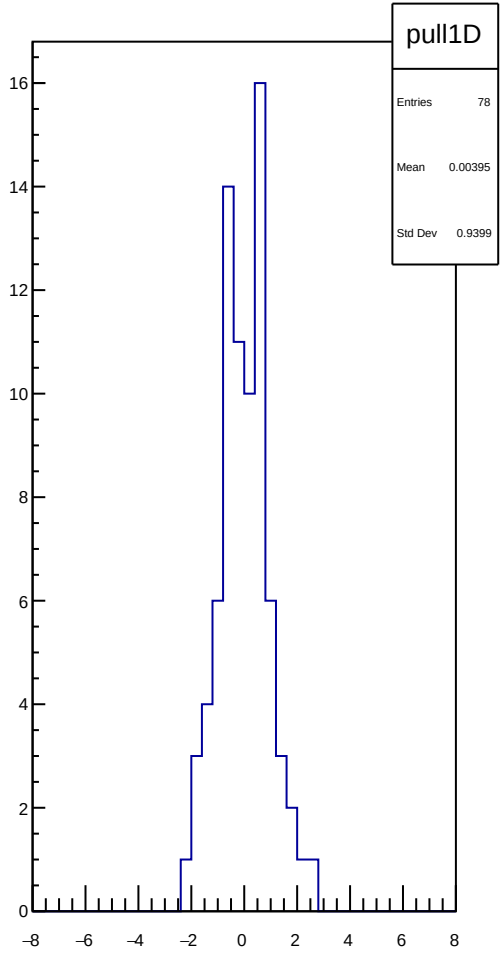

reg_asym_usl_rms vs run
χ² / ndf 107 / 77
p0 1112 ± 0.8885
1140
1130
1120
1110
1100
1090
1080

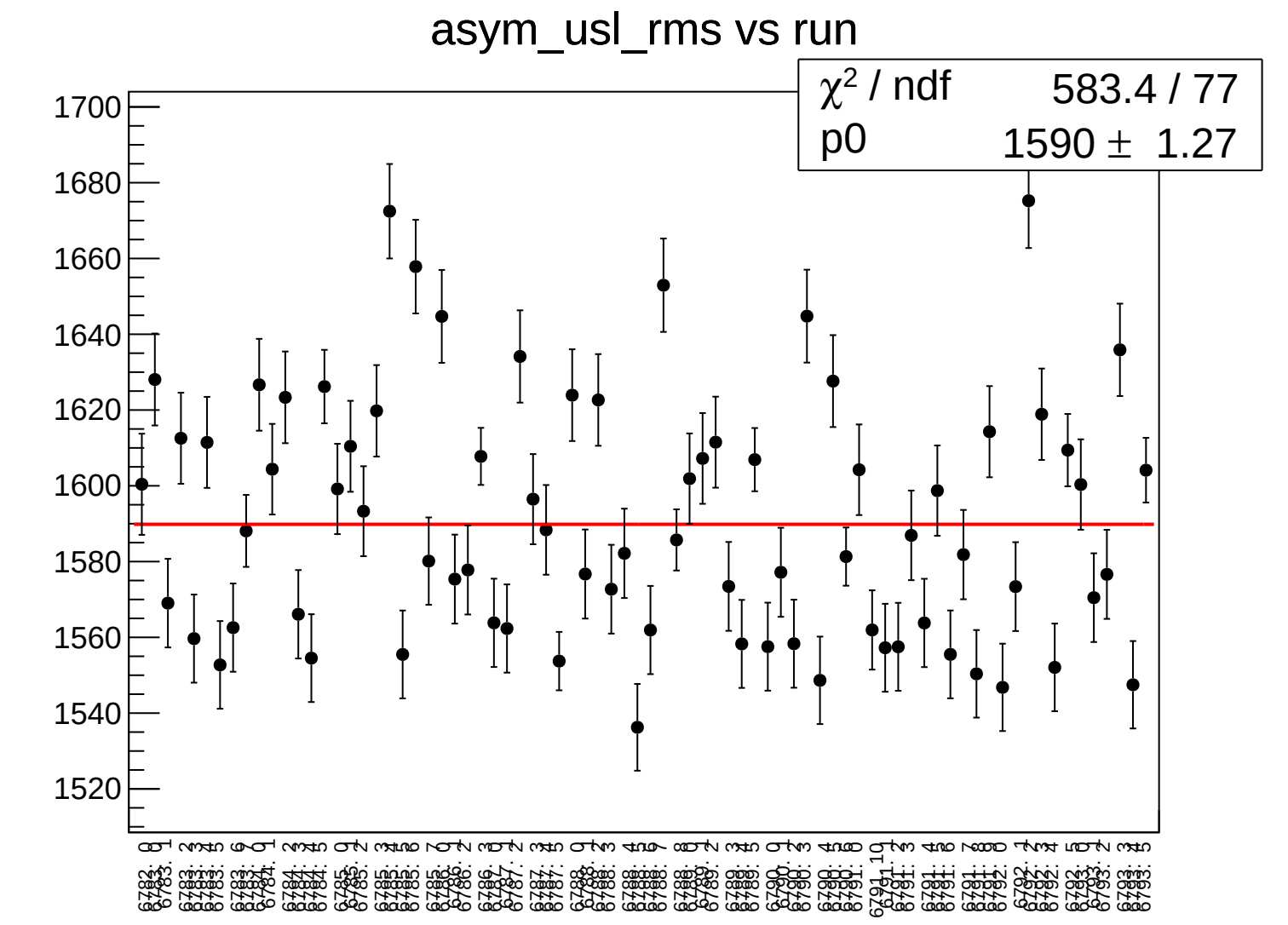

asym_usl_correction_mean vs run
χ² / ndf 75.1 / 77
p0 −2680 ± 1282
pull
Entries 78
Mean −169.3
Std Dev 207.7

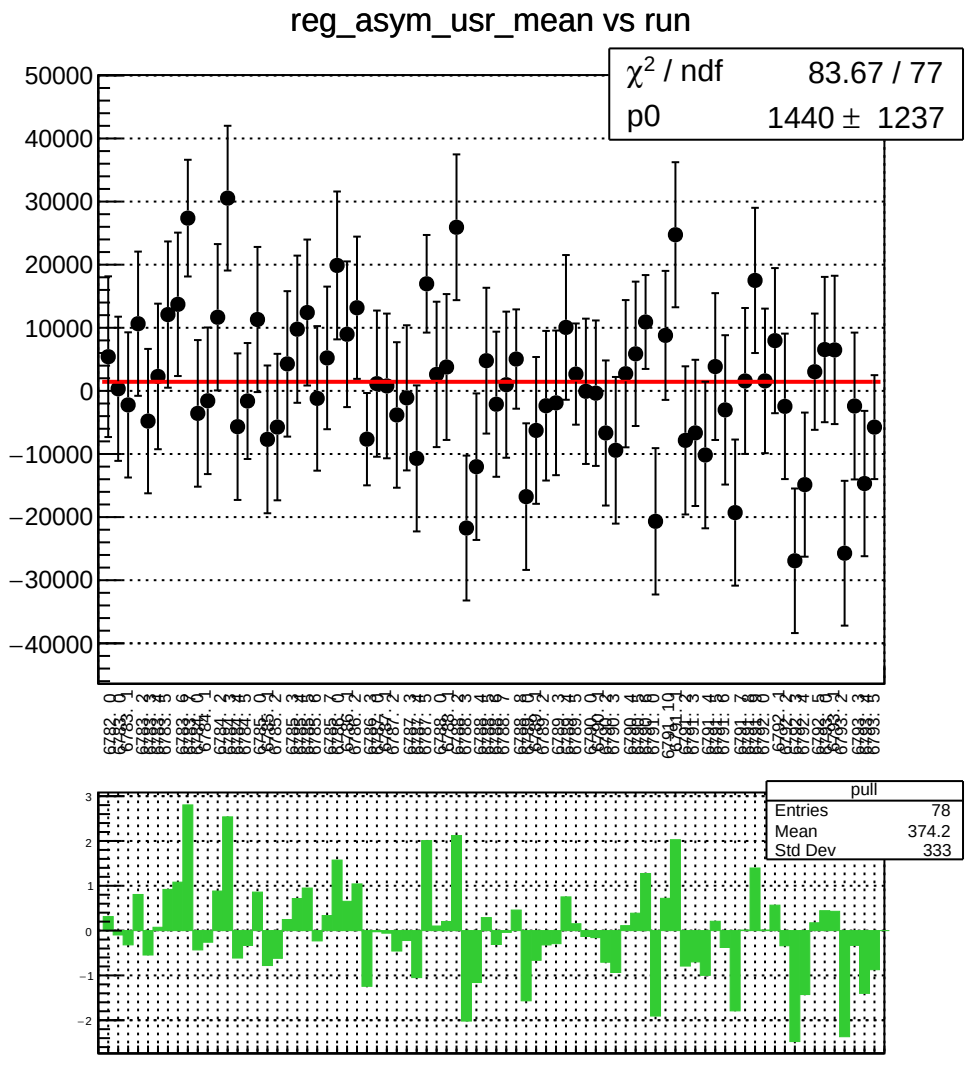

pull1D
Entries 78
Mean −0.01235
Std Dev 0.9812

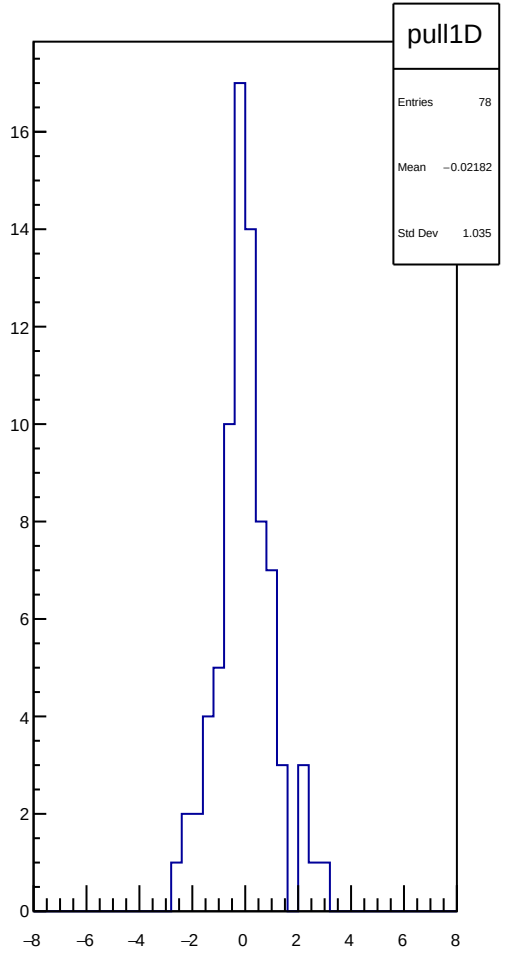

asym_usl_correction_rms vs run
χ² / ndf 1889 / 77
p0 1134 ± 0.9066
1250
1200
1150
1100
1050

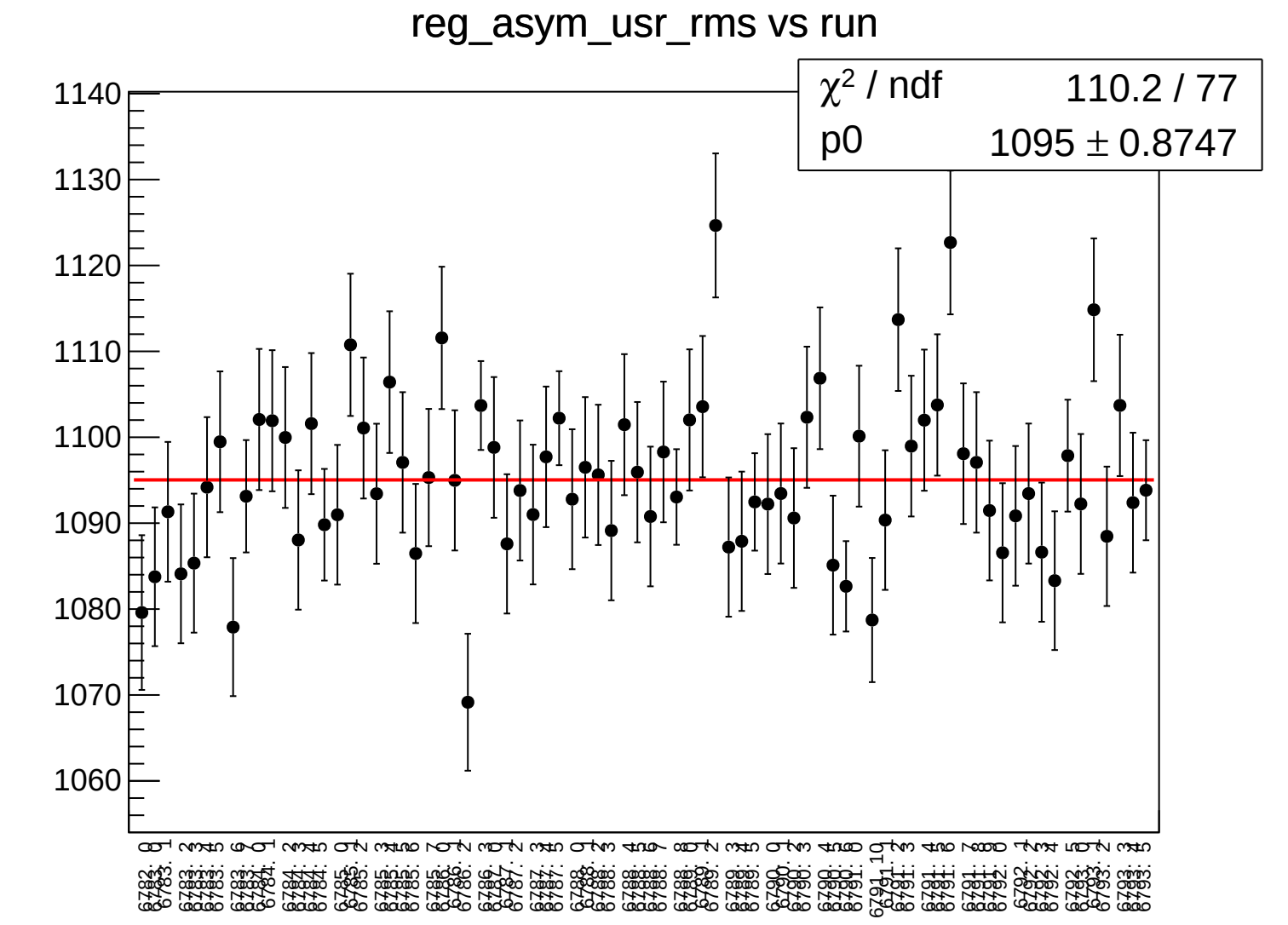

asym_usl_mean vs run
χ² / ndf 68.91 / 77
p0 3592 ± 1796
pull
Entries 78
Mean −686.6
Std Dev 725.8

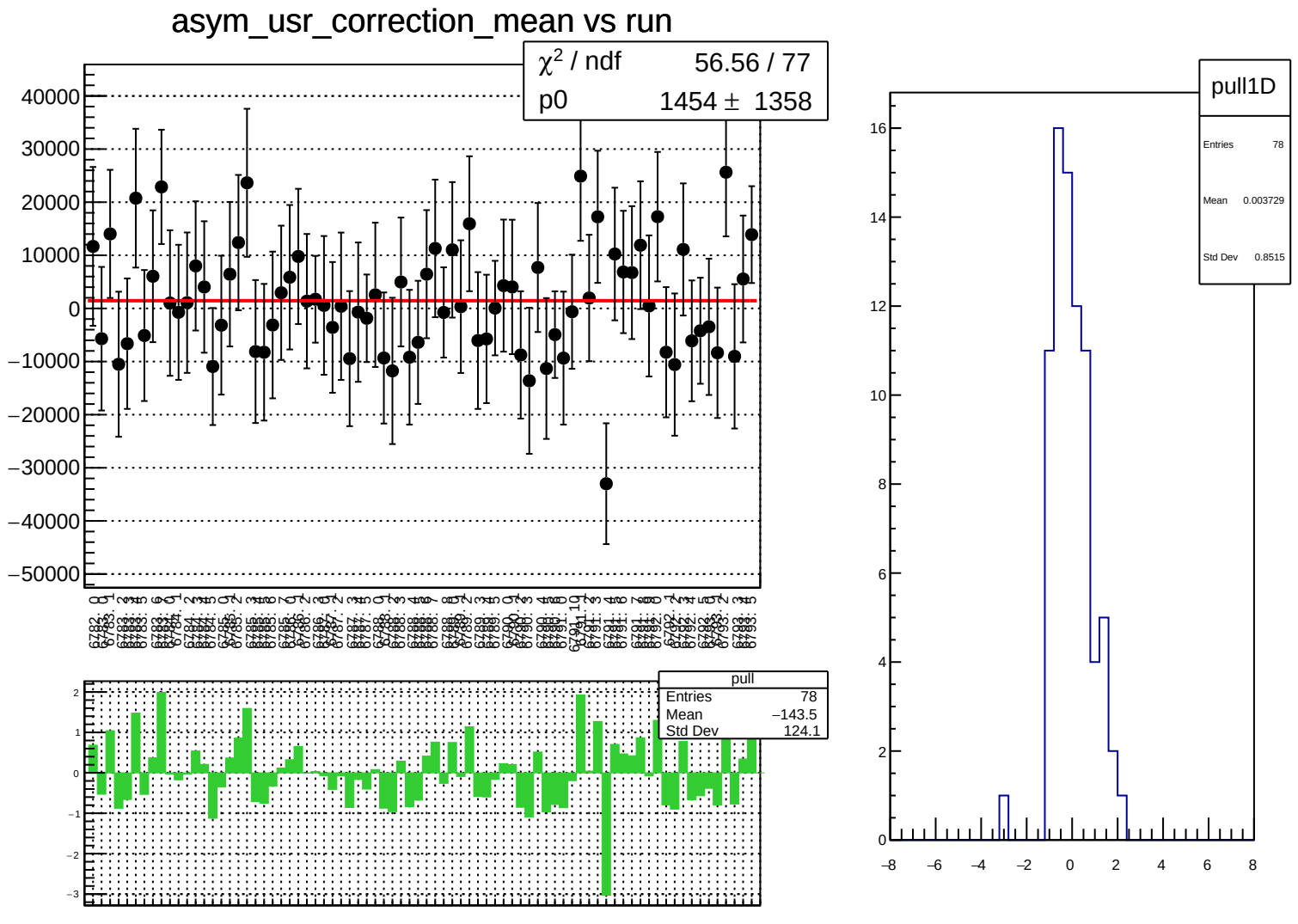

pull1D
Entries 78
Mean 0.00395
Std Dev 0.9399

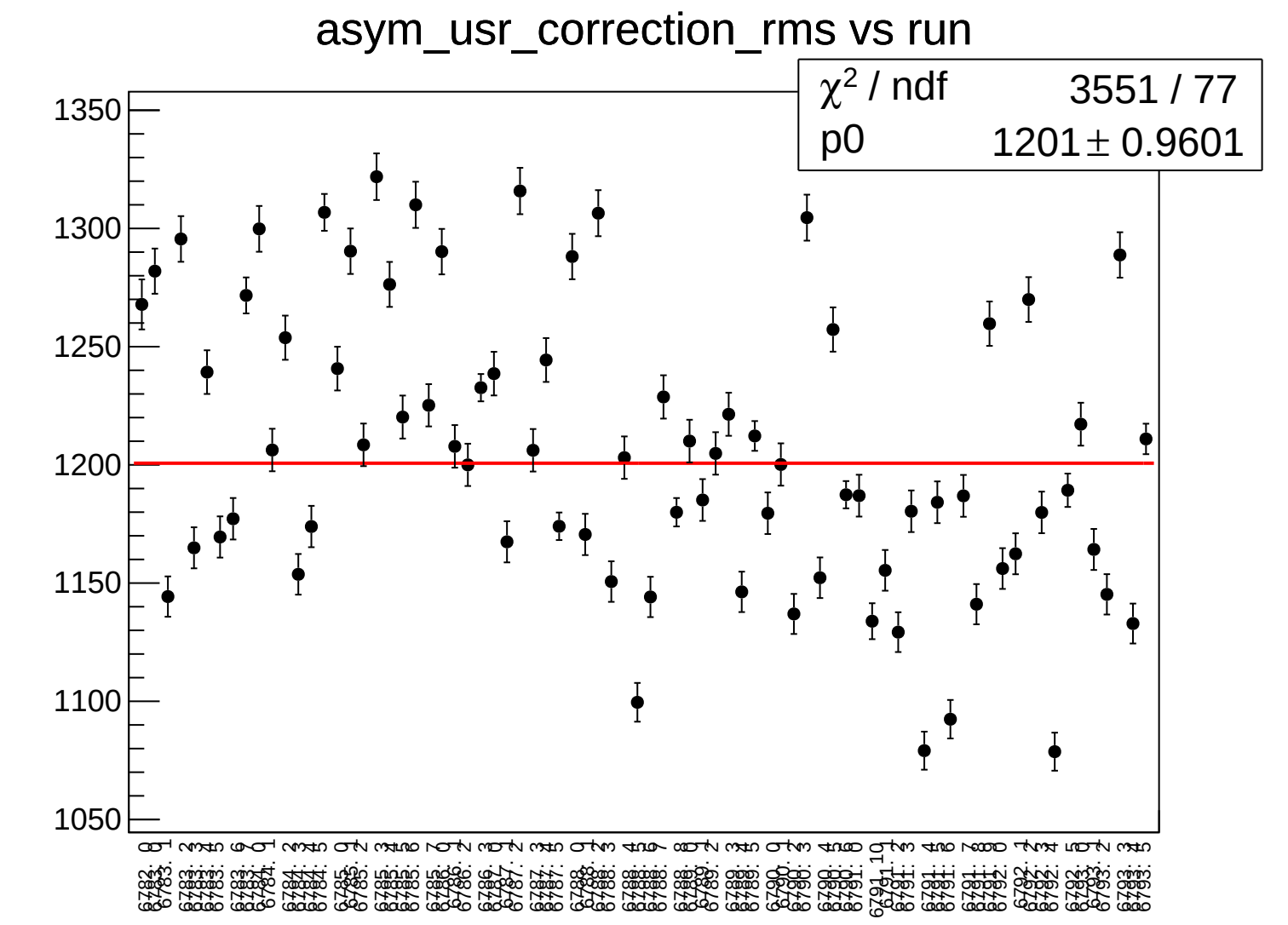

asym_usl_rms vs run
χ² / ndf 583.4 / 77
p0 1590 ± 1.27
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

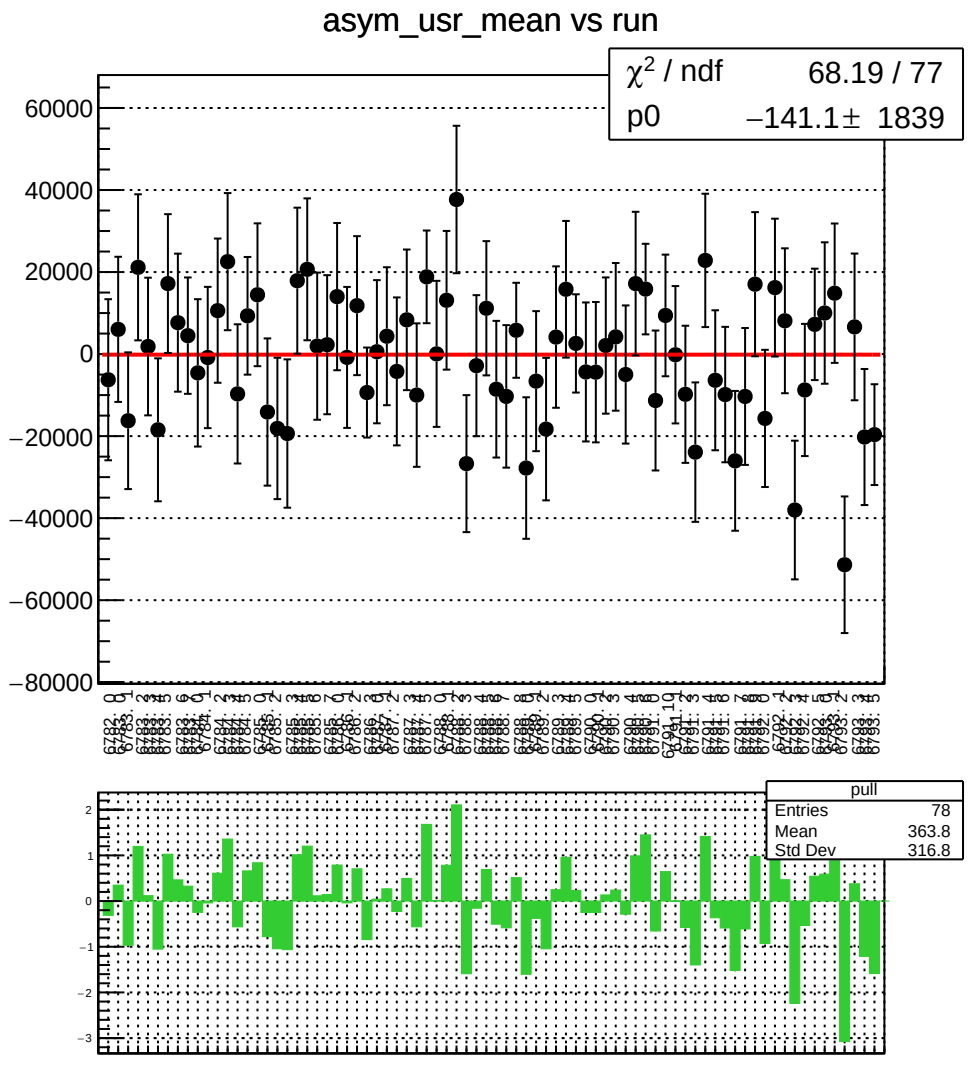

reg_asym_usr_mean vs run
χ² / ndf 83.67 / 77
p0 1440 ± 1237
pull
Entries 78
Mean 374.2
Std Dev 333

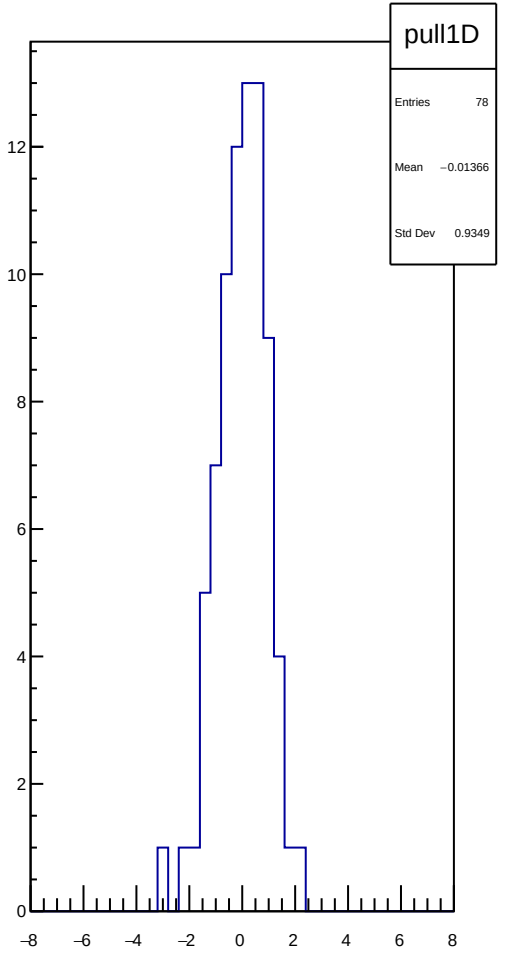

pull1D
Entries 78
Mean −0.02182
Std Dev 1.035

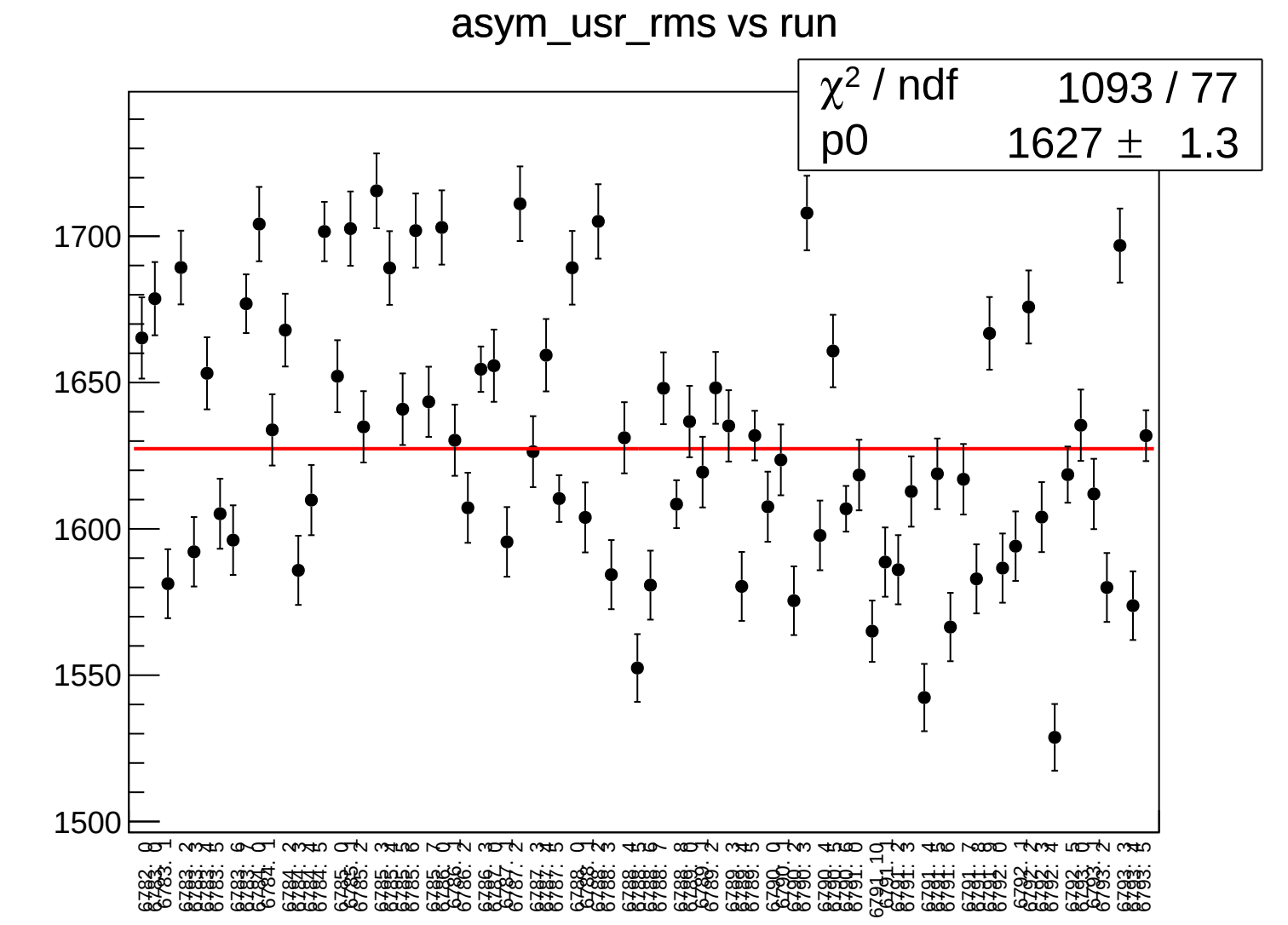

reg_asym_usr_rms vs run
χ² / ndf 110.2 / 77
p0 1095 ± 0.8747
1140
1130
1120
1110
1100
1090
1080
1070
1060

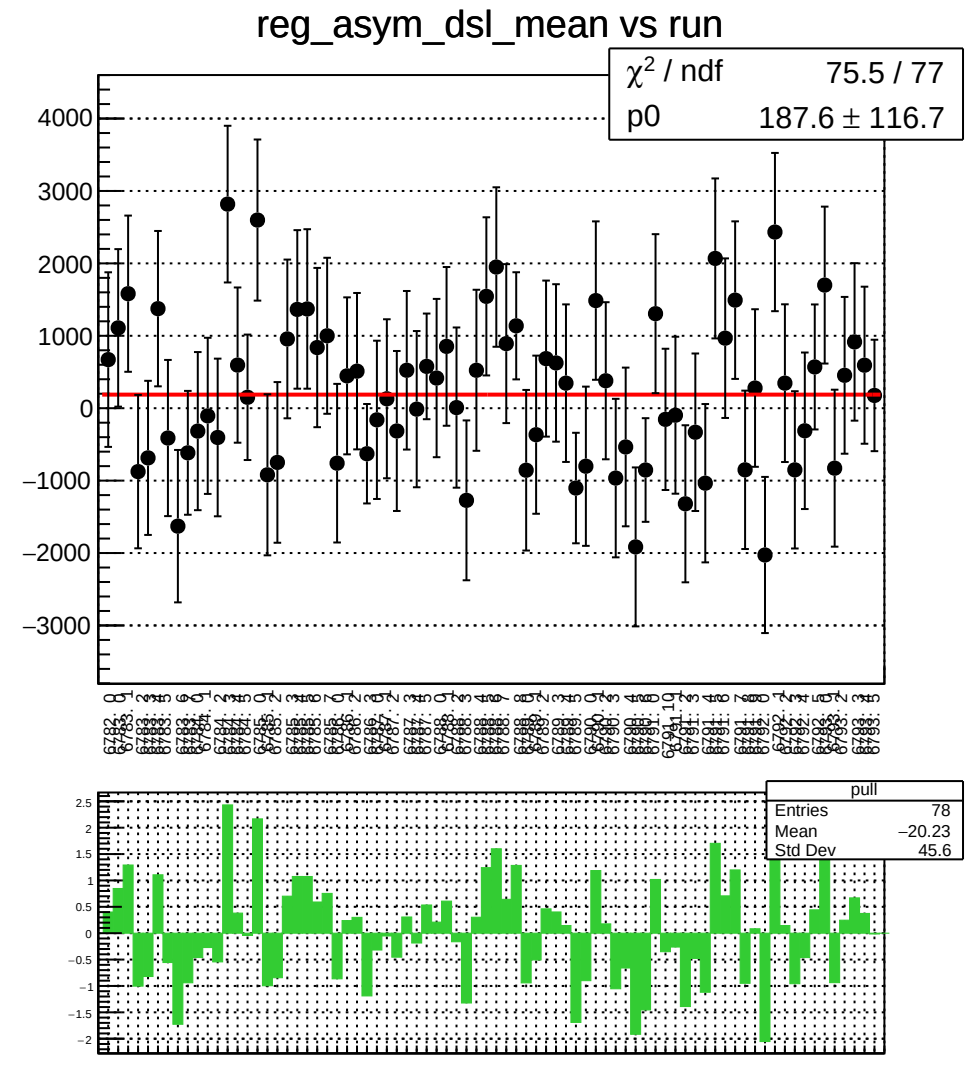

asym_usr_correction_mean vs run
χ² / ndf 56.56 / 77
p0 1454 ± 1358
pull
Entries 78
Mean −143.5
Std Dev 124.1
pull1D
Entries 78
Mean 0.003729
Std Dev 0.8515

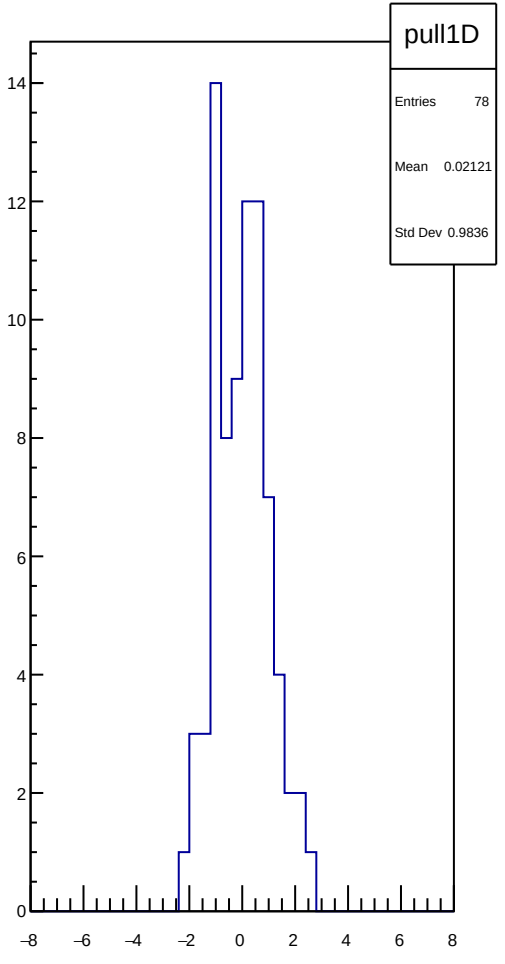

asym_usr_correction_rms vs run
χ² / ndf 3551 / 77
p0 1201 ± 0.9601
1350
1300
1250
1200
1150
1100
1050

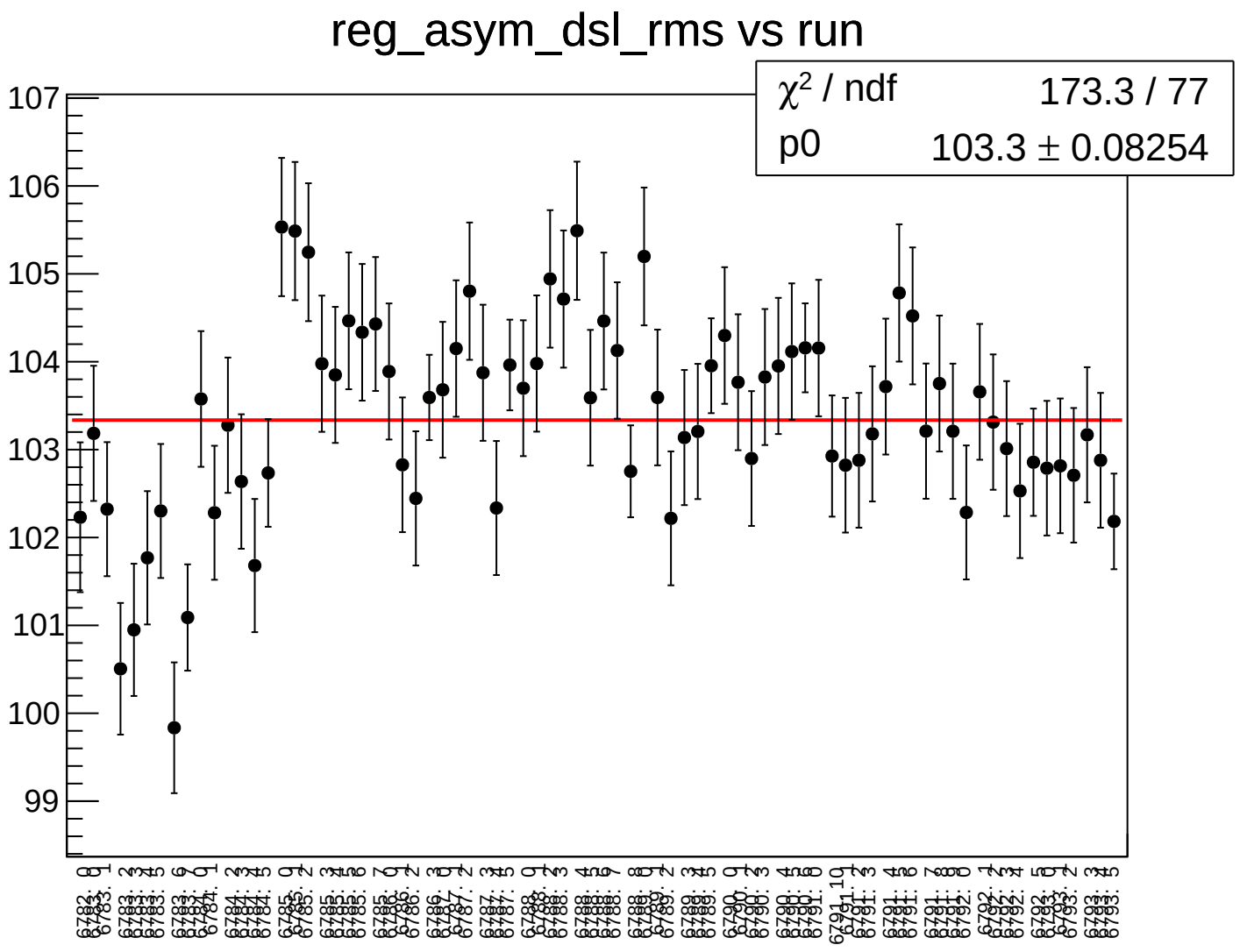

asym_usr_mean vs run
χ² / ndf 68.19 / 77
p0 −141.1± 1839
pull
Entries 78
Mean 363.8
Std Dev 316.8

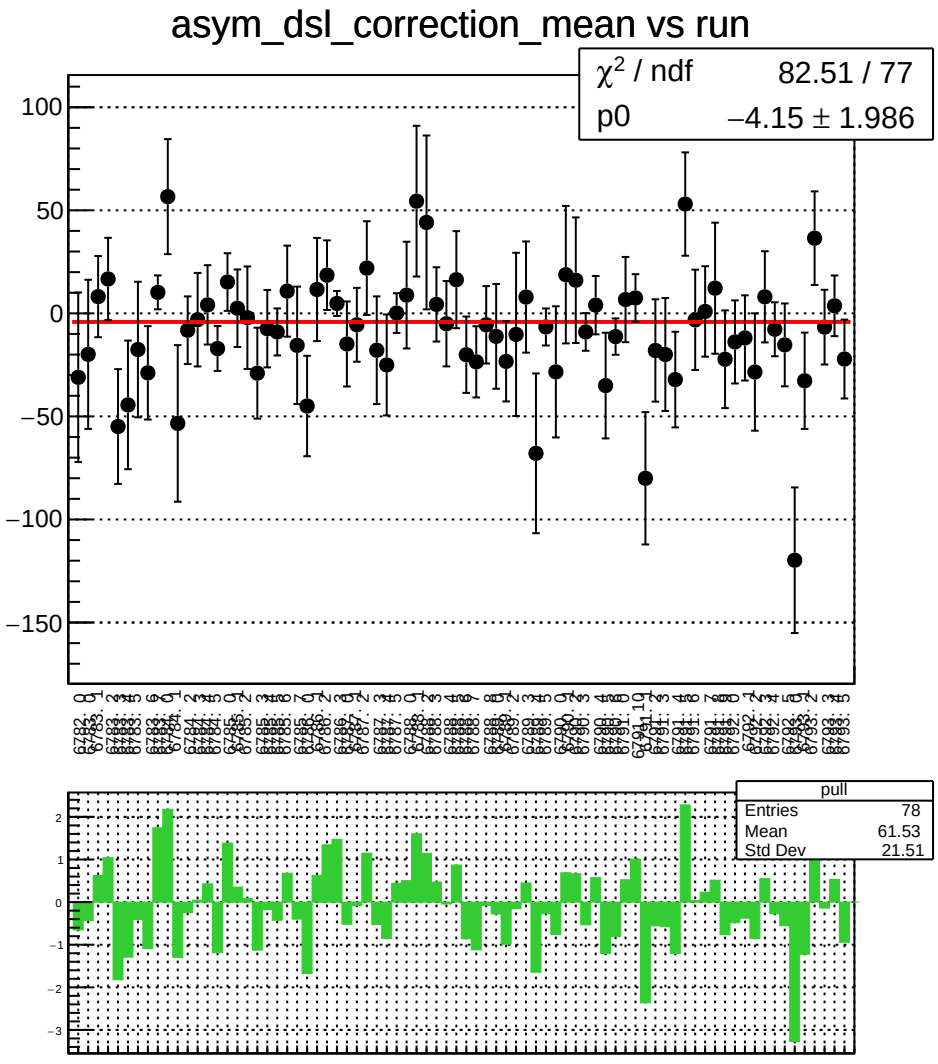

pull1D
Entries 78
Mean −0.01366
Std Dev 0.9349

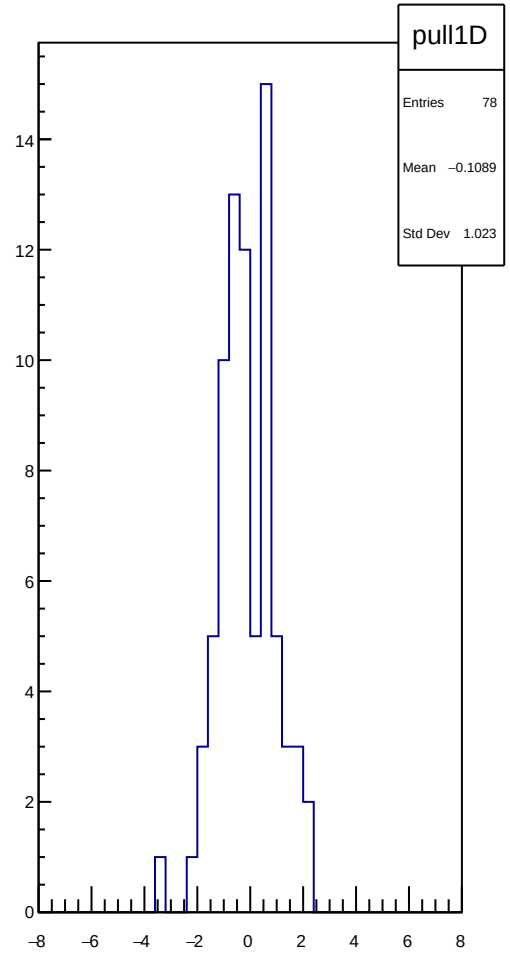

asym_usr_rms vs run
χ² / ndf 1093 / 77
p0 1627 ± 1.3
1700
1650
1600
1550
1500

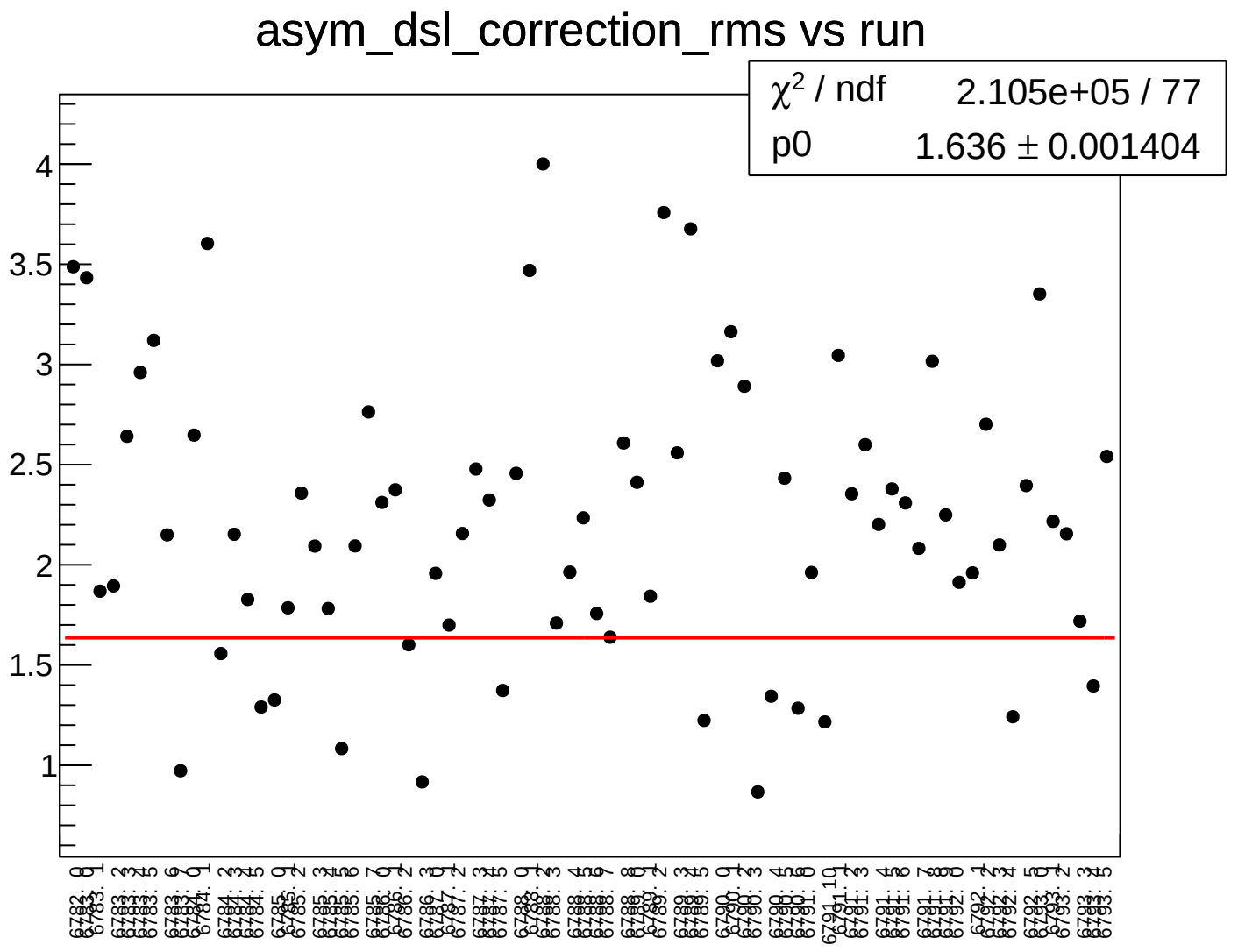

reg_asym_dsl_mean vs run
χ² / ndf 75.5 / 77
p0 187.6 ± 116.7
pull
Entries 78
Mean −20.23
Std Dev 45.6

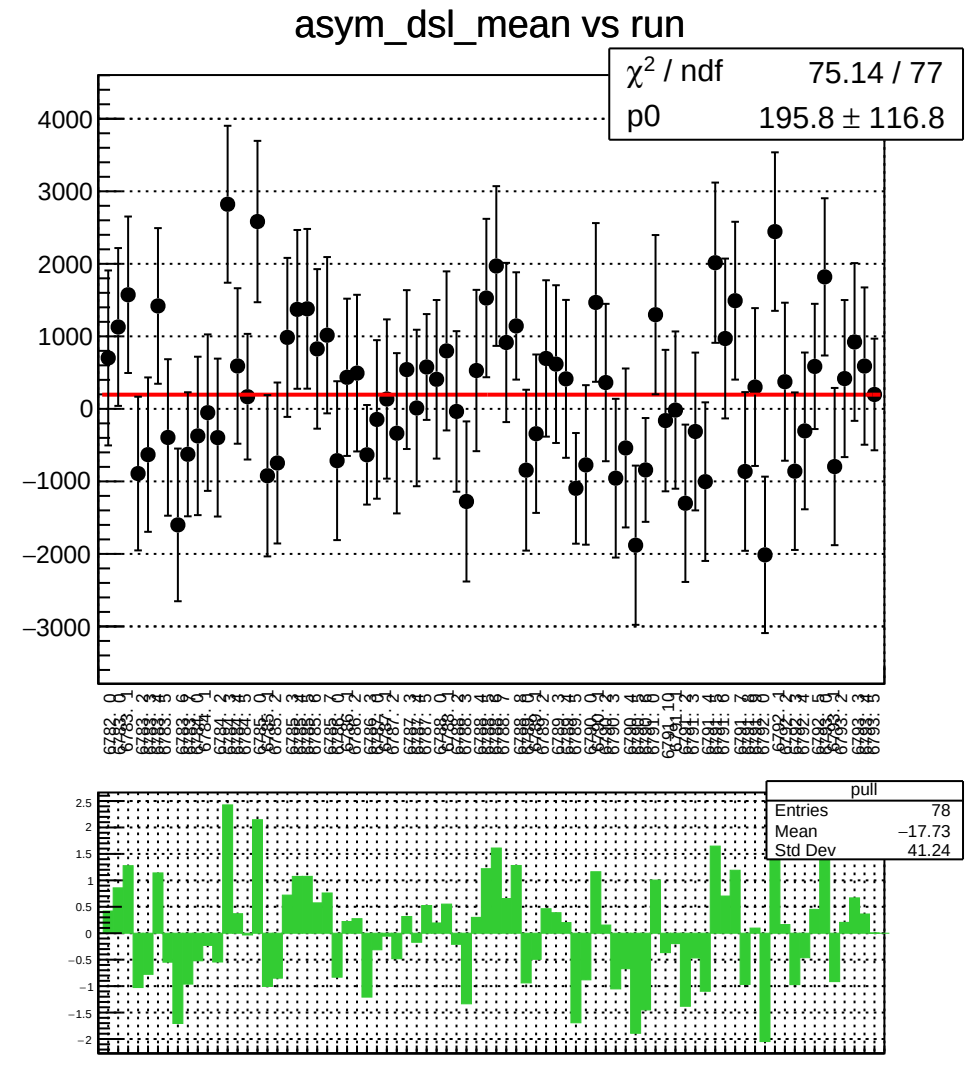

pull1D
Entries 78
Mean 0.02121
Std Dev 0.9836

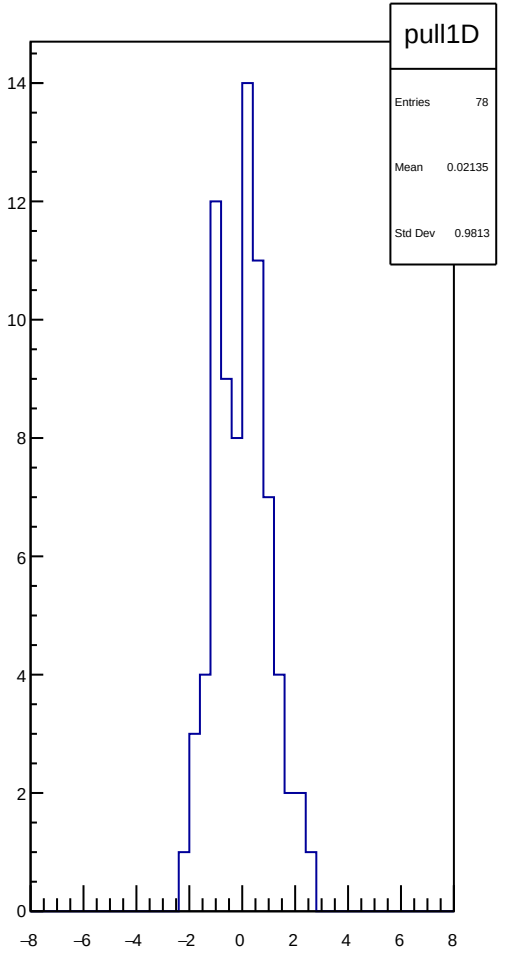

reg_asym_dsl_rms vs run
χ² / ndf 173.3 / 77
p0 103.3 ± 0.08254
107
106
105
104
103
102
101
100
99

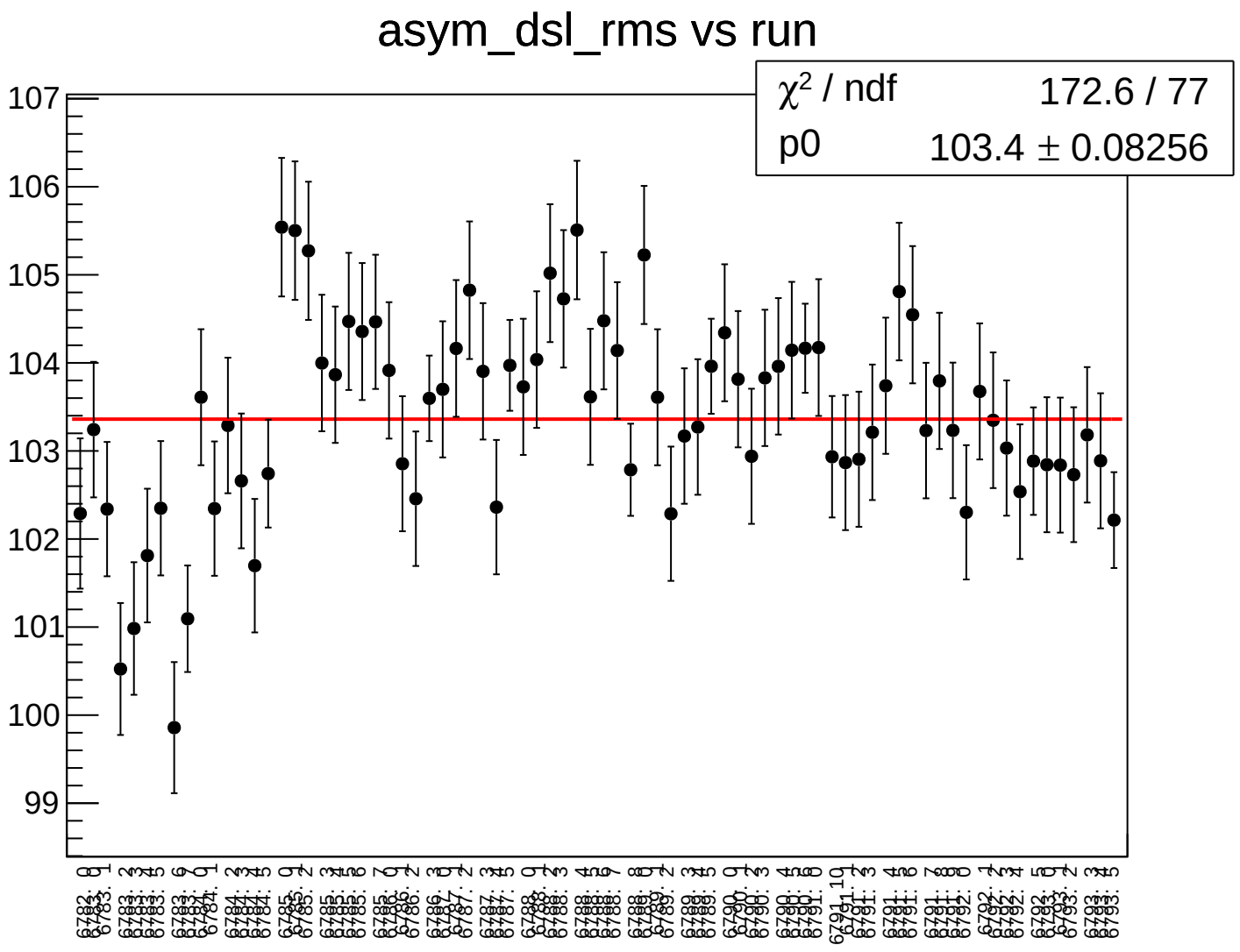

asym_dsl_correction_mean vs run
χ² / ndf 82.51 / 77
p0 −4.15 ± 1.986
pull
Entries 78
Mean 61.53
Std Dev 21.51

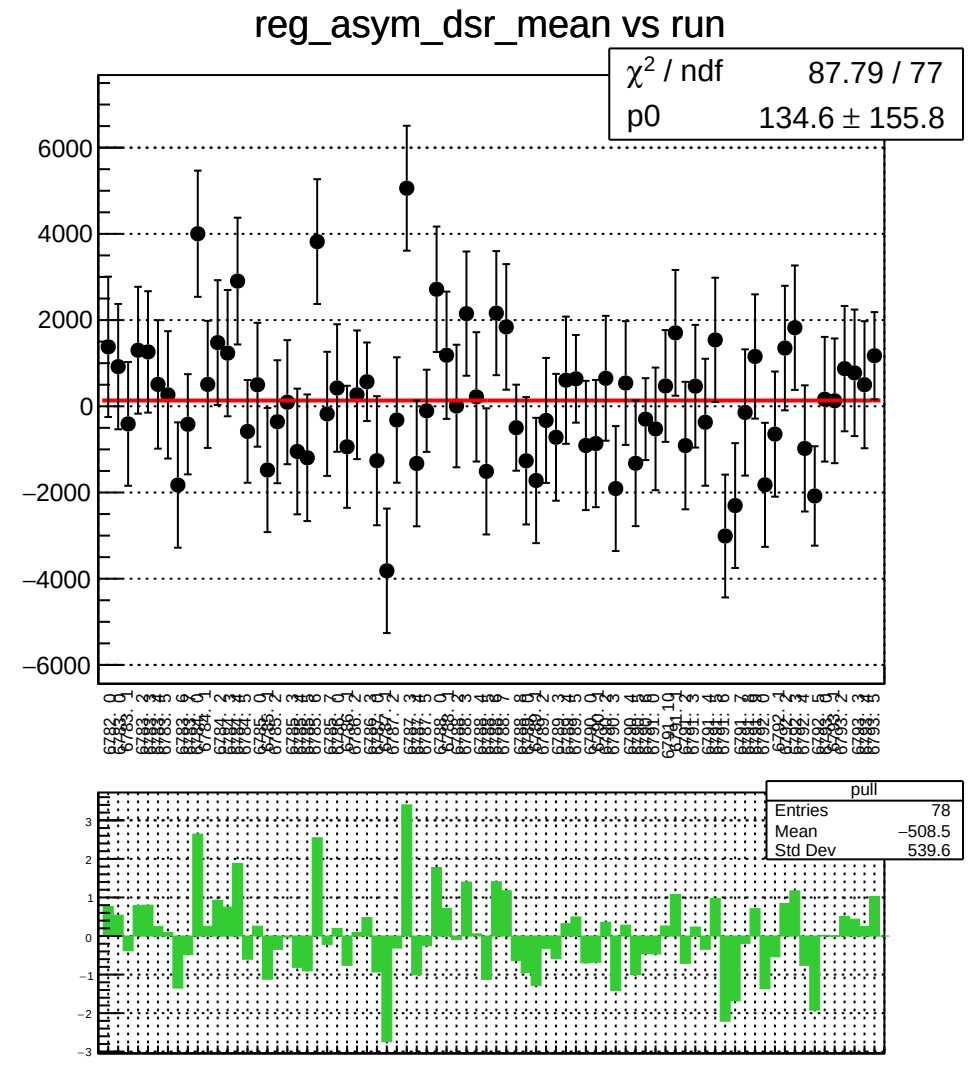

pull1D
Entries 78
Mean −0.1089
Std Dev 1.023

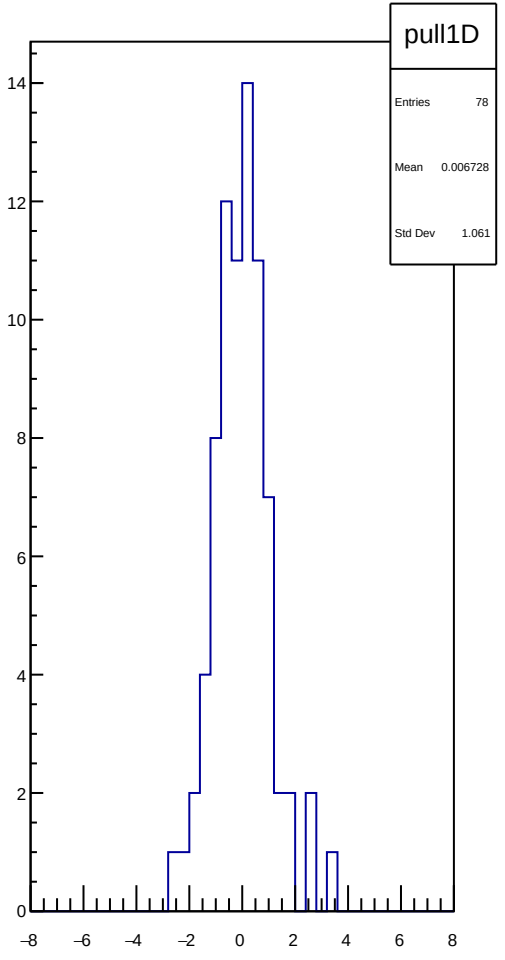

asym_dsl_correction_rms vs run
χ^2 / ndf 2.105e+05 / 77
p0 1.636 ± 0.001404
4
3.5
3
2.5
2
1.5
1

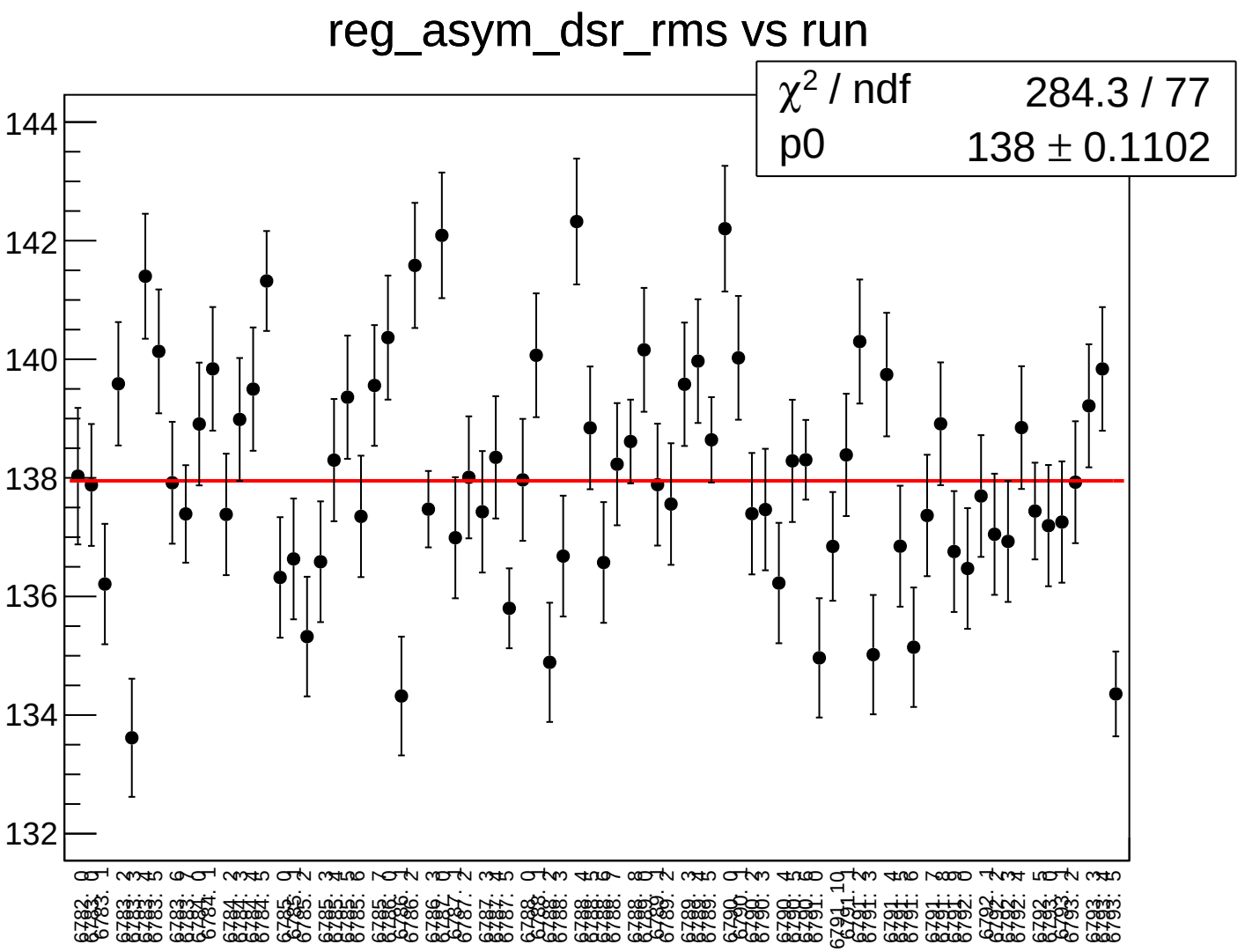

asym_dsl_mean vs run
χ² / ndf 75.14 / 77
p0 195.8 ± 116.8
pull
Entries 78
Mean −17.73
Std Dev 41.24

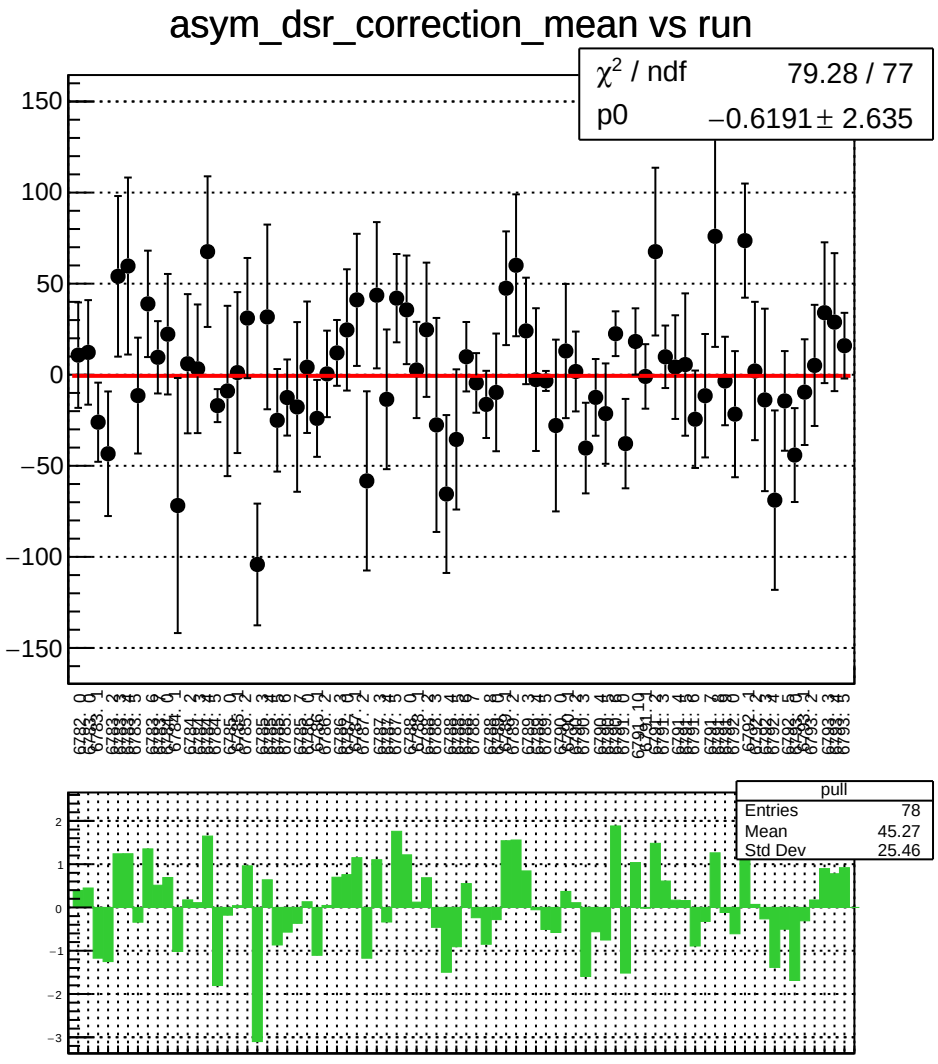

pull1D
Entries 78
Mean 0.02135
Std Dev 0.9813

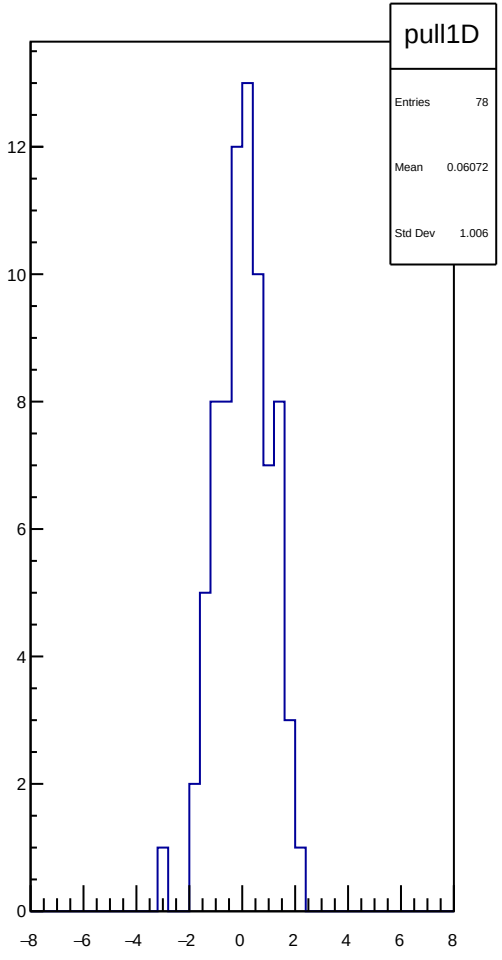

asym_dsl_rms vs run
χ² / ndf 172.6 / 77
p0 103.4 ± 0.08256
107
106
105
104
103
102
101
100
99

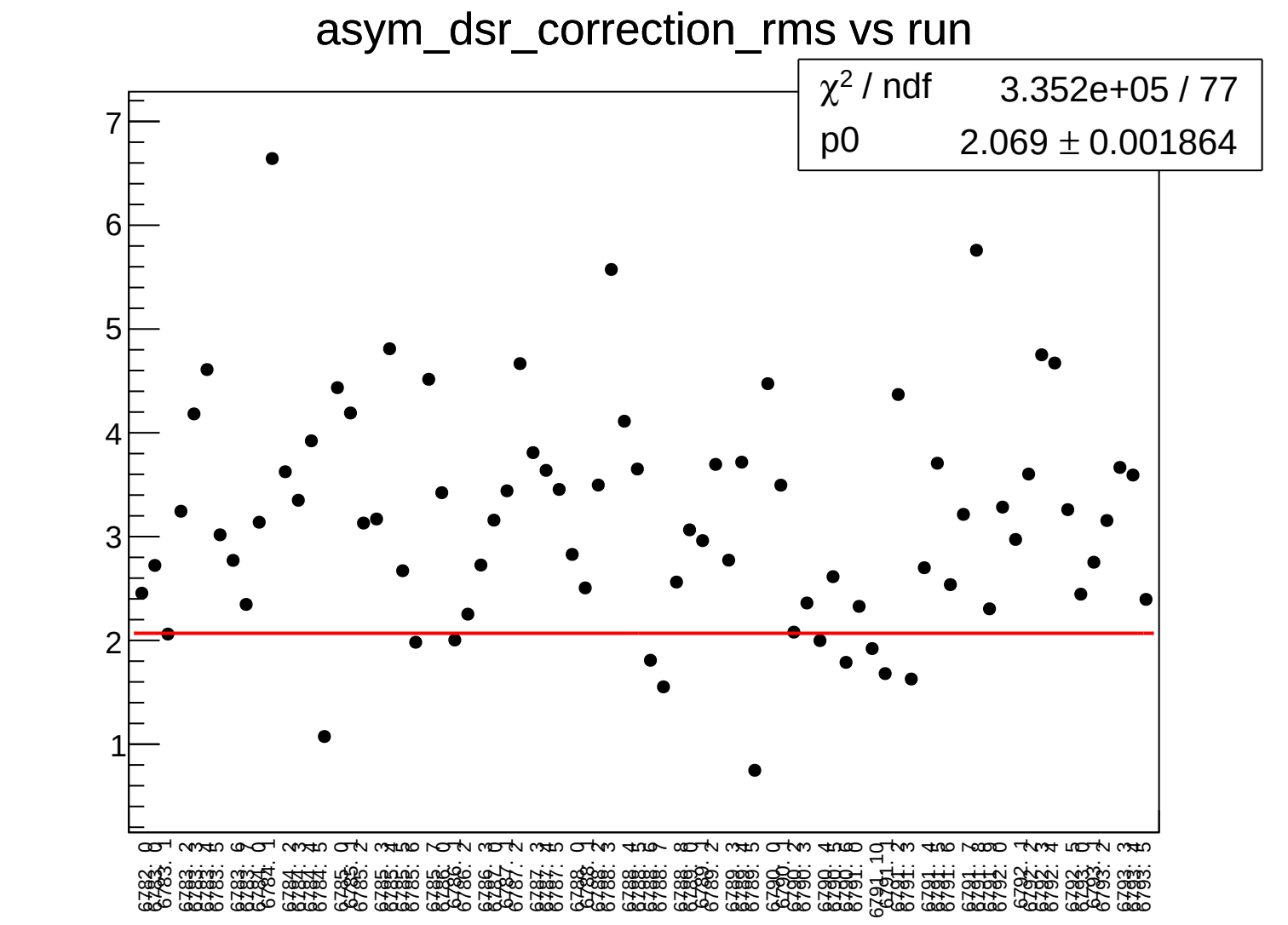

reg_asym_dsr_mean vs run
χ² / ndf 87.79 / 77
p0 134.6 ± 155.8
pull
Entries 78
Mean −508.5
Std Dev 539.6

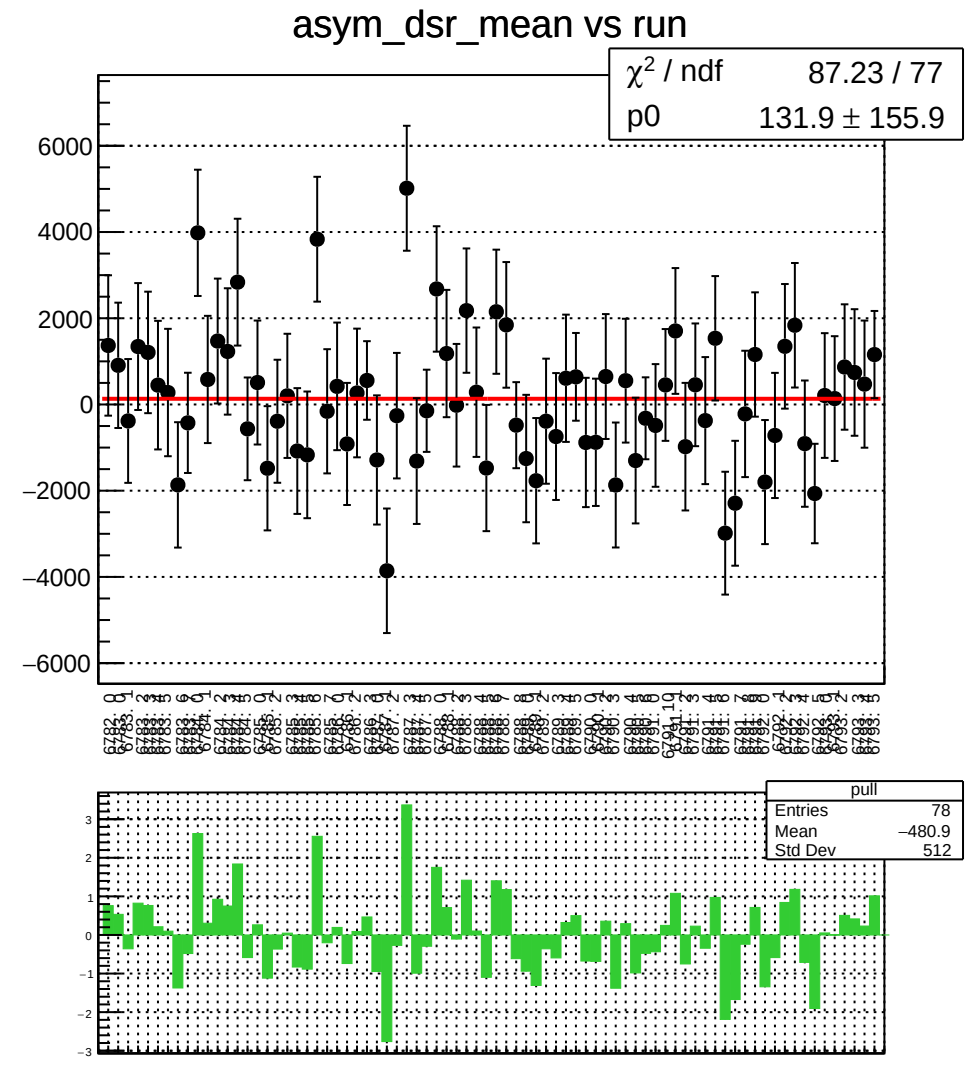

pull1D
Entries 78
Mean 0.006728
Std Dev 1.061

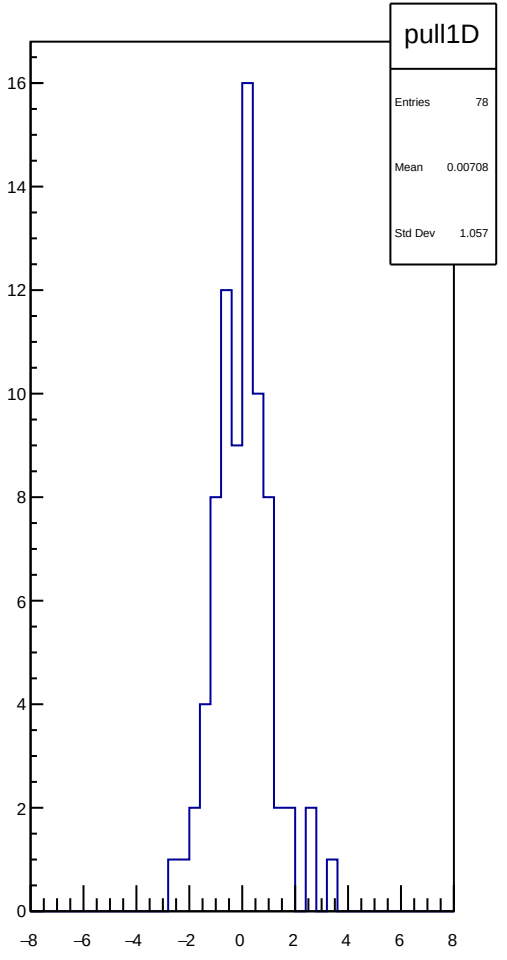

reg_asym_dsr_rms vs run
χ^2 / ndf 284.3 / 77
p0 138 ± 0.1102
144
142
140
138
136
134
132

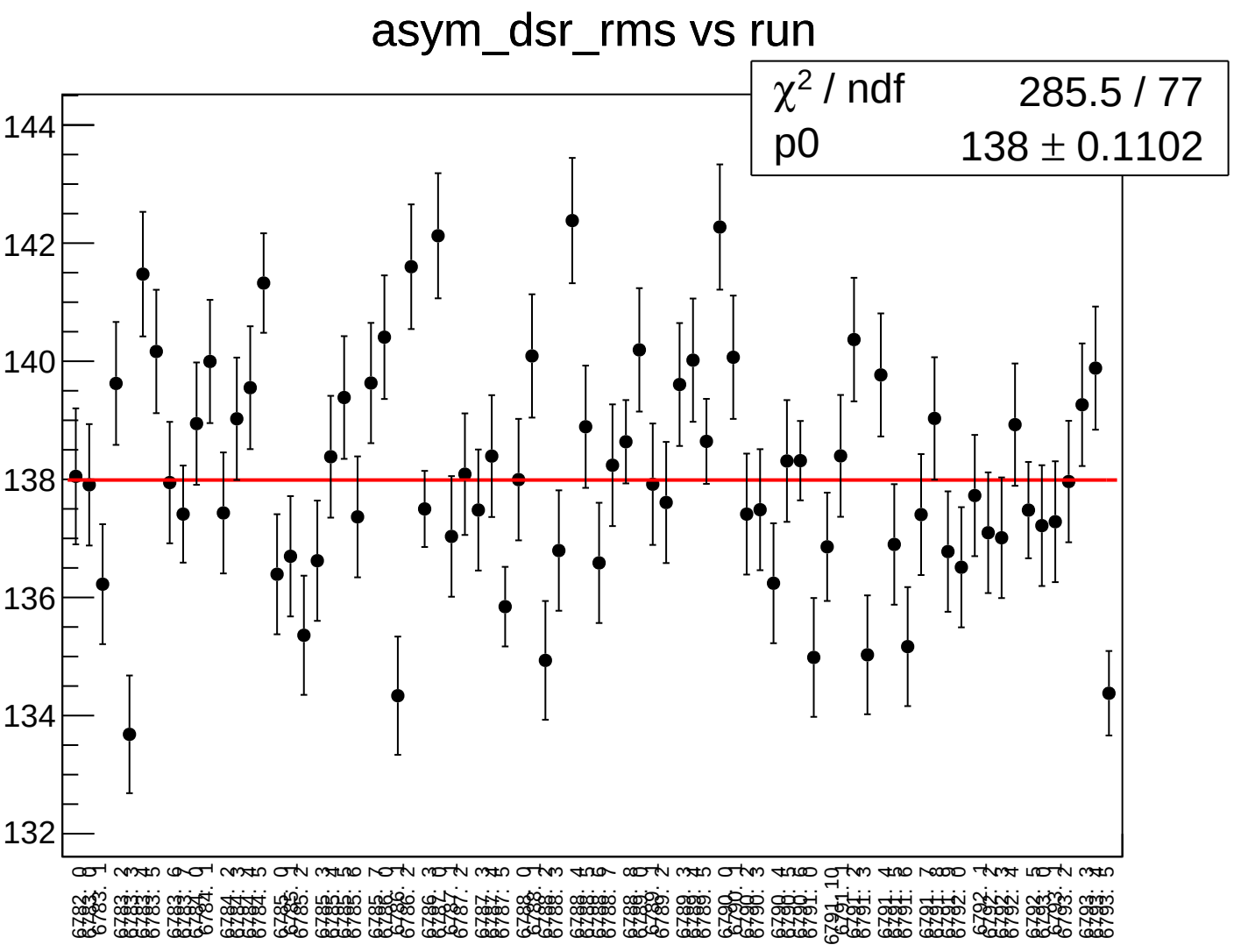

asym_dsr_correction_mean vs run
χ² / ndf 79.28 / 77
p0 −0.6191 ± 2.635
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 45.27
Std Dev 25.46
2
1
0
−1
−2
−3

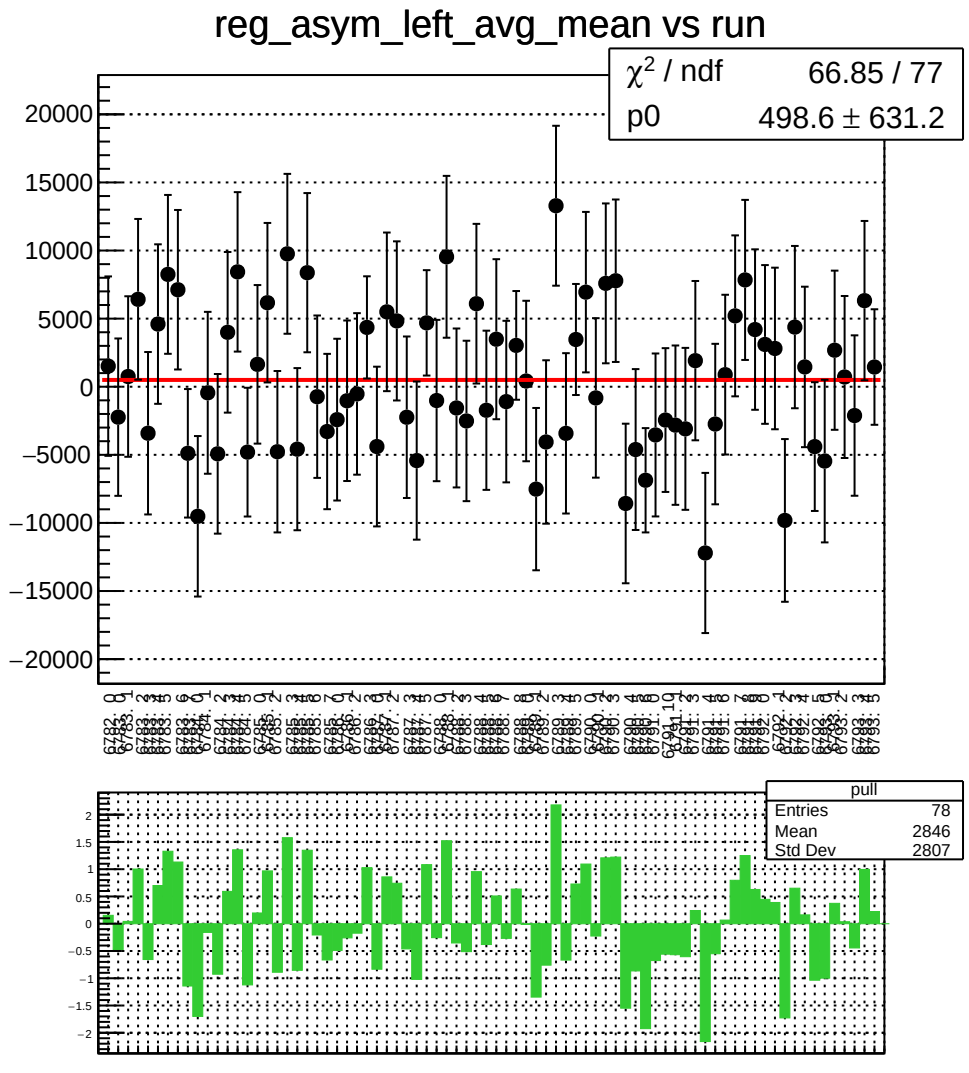

pull1D
Entries 78
Mean 0.06072
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

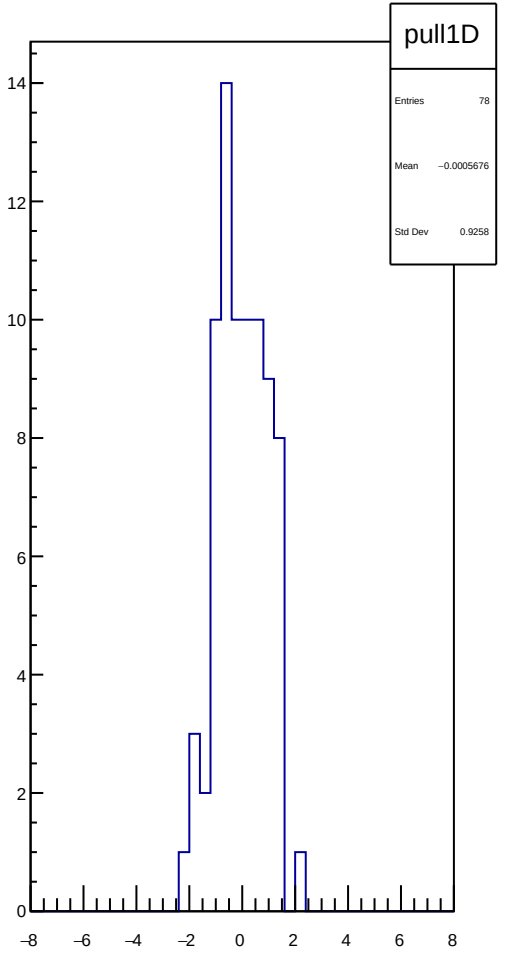

asym_dsr_correction_rms vs run
χ^2 / ndf 3.352e+05 / 77
p0 2.069 ± 0.001864
7
6
5
4
3
2
1

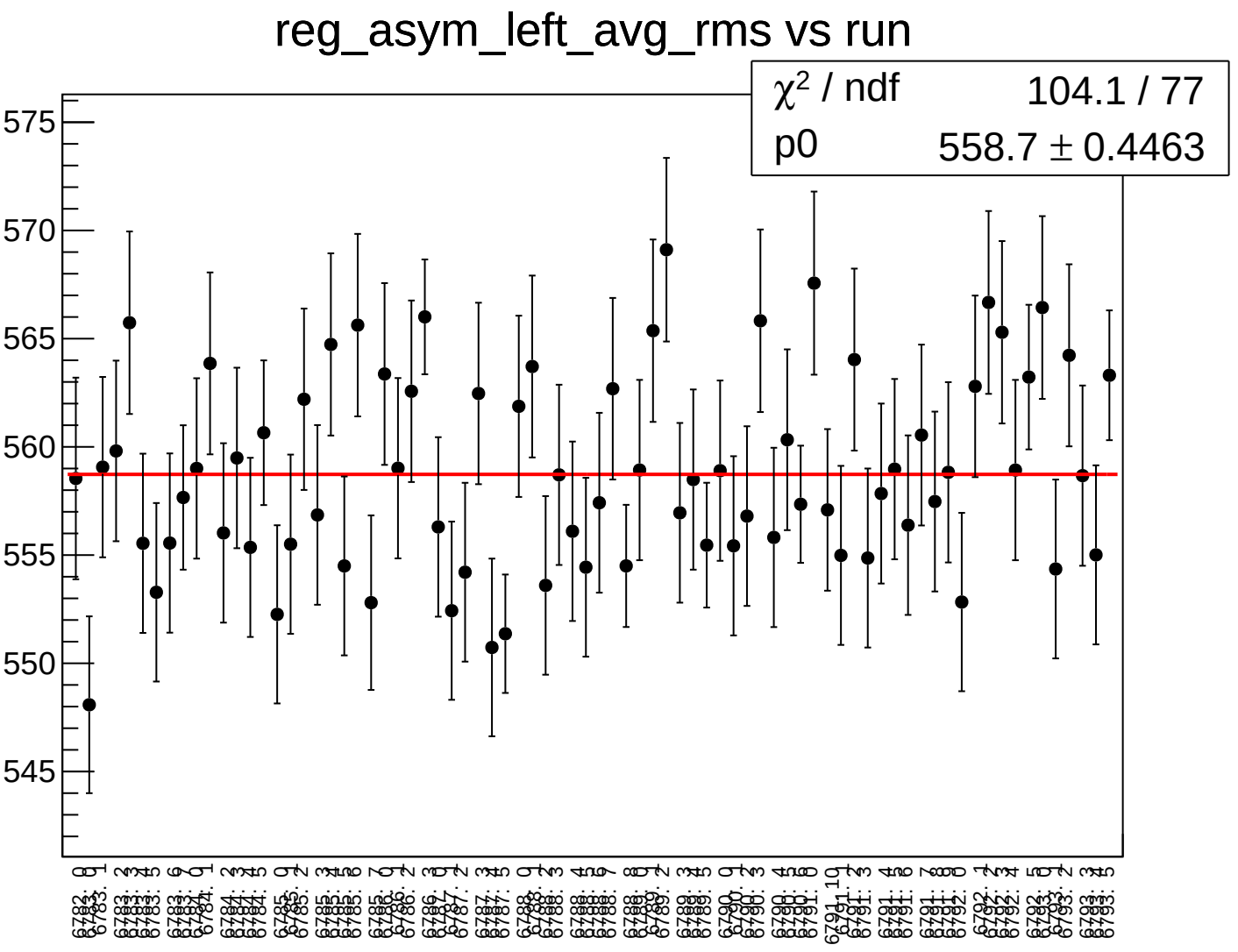

asym_dsr_mean vs run
χ² / ndf 87.23 / 77
p0 131.9 ± 155.9
pull
Entries 78
Mean −480.9
Std Dev 512

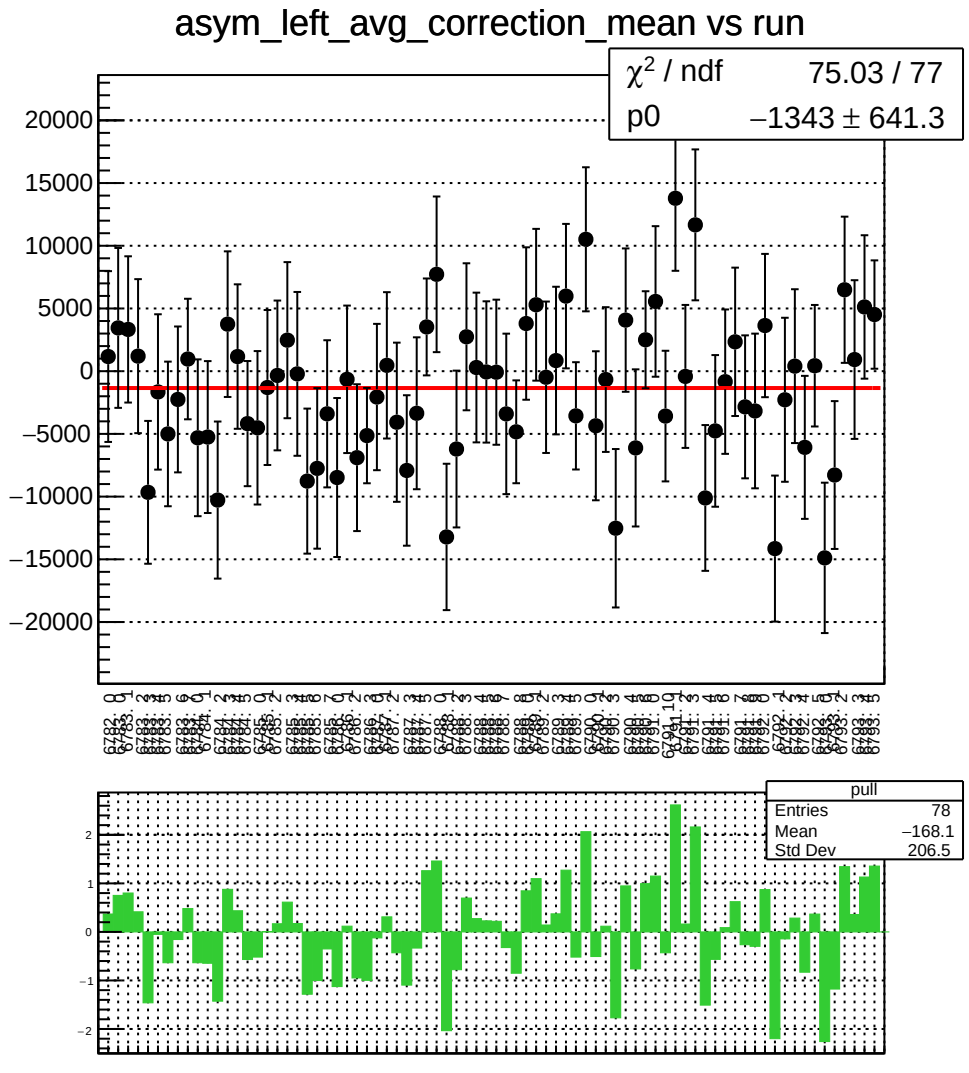

pull1D
Entries 78
Mean 0.00708
Std Dev 1.057

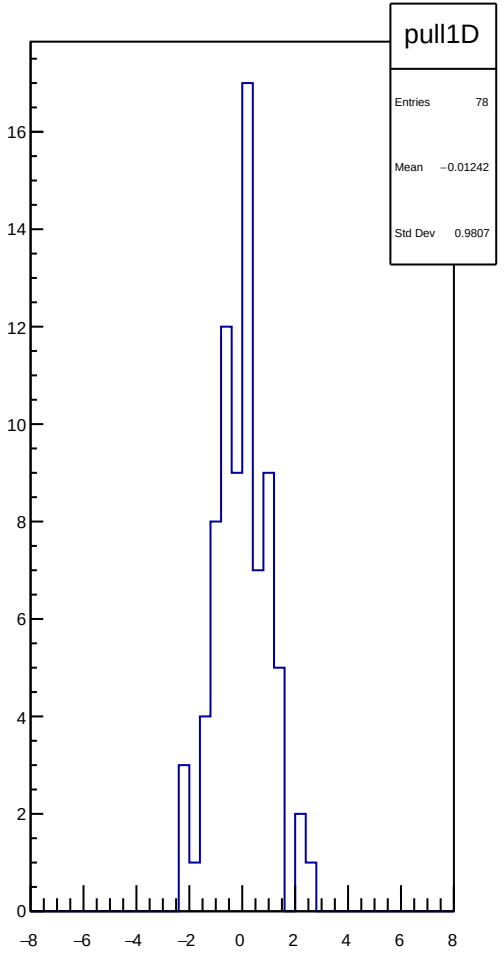

asym_dsr_rms vs run
χ^2 / ndf 285.5 / 77
p0 138 ± 0.1102
144
142
140
138
136
134
132

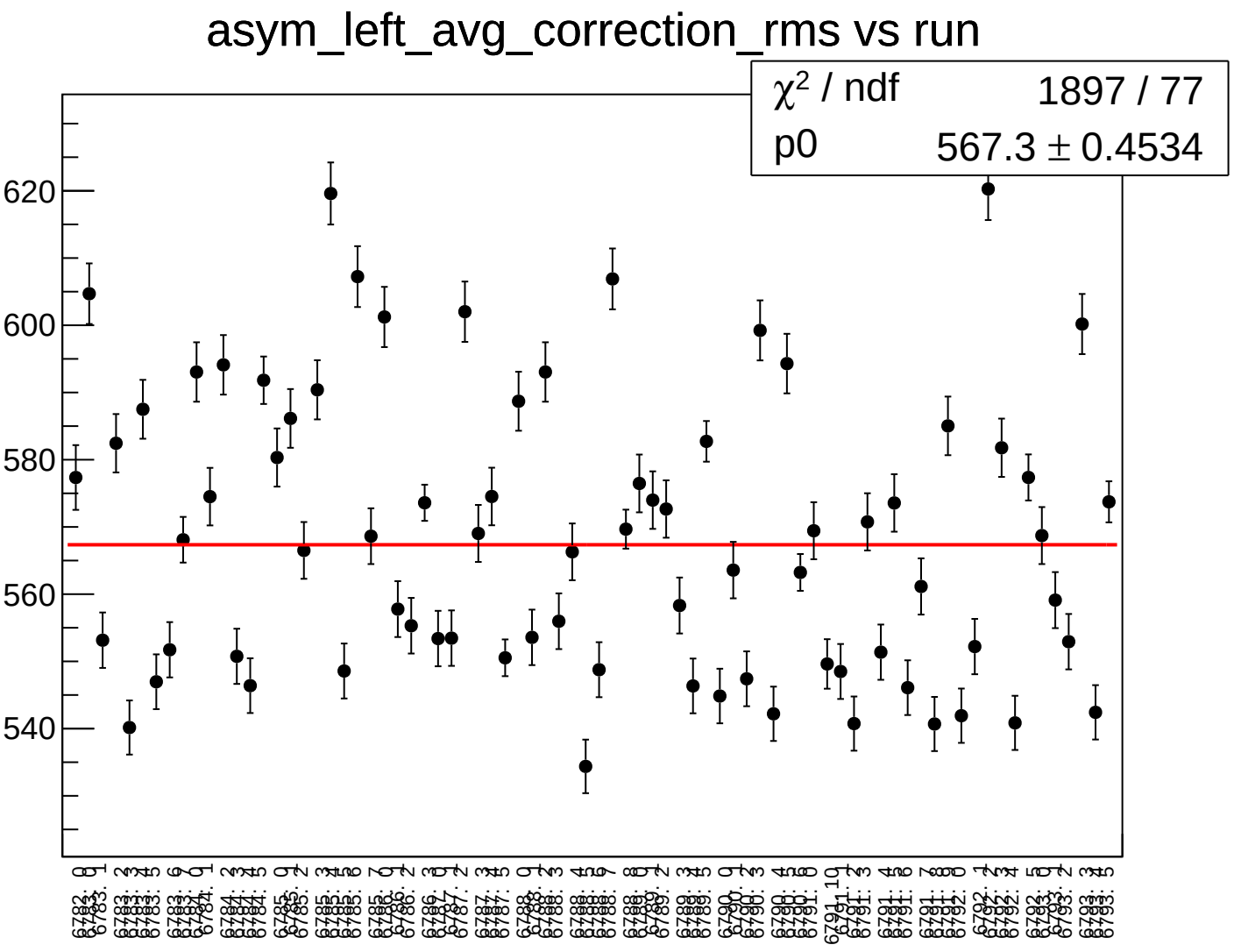

reg_asym_left_avg_mean vs run
χ² / ndf 66.85 / 77
p0 498.6 ± 631.2
pull
Entries 78
Mean 2846
Std Dev 2807

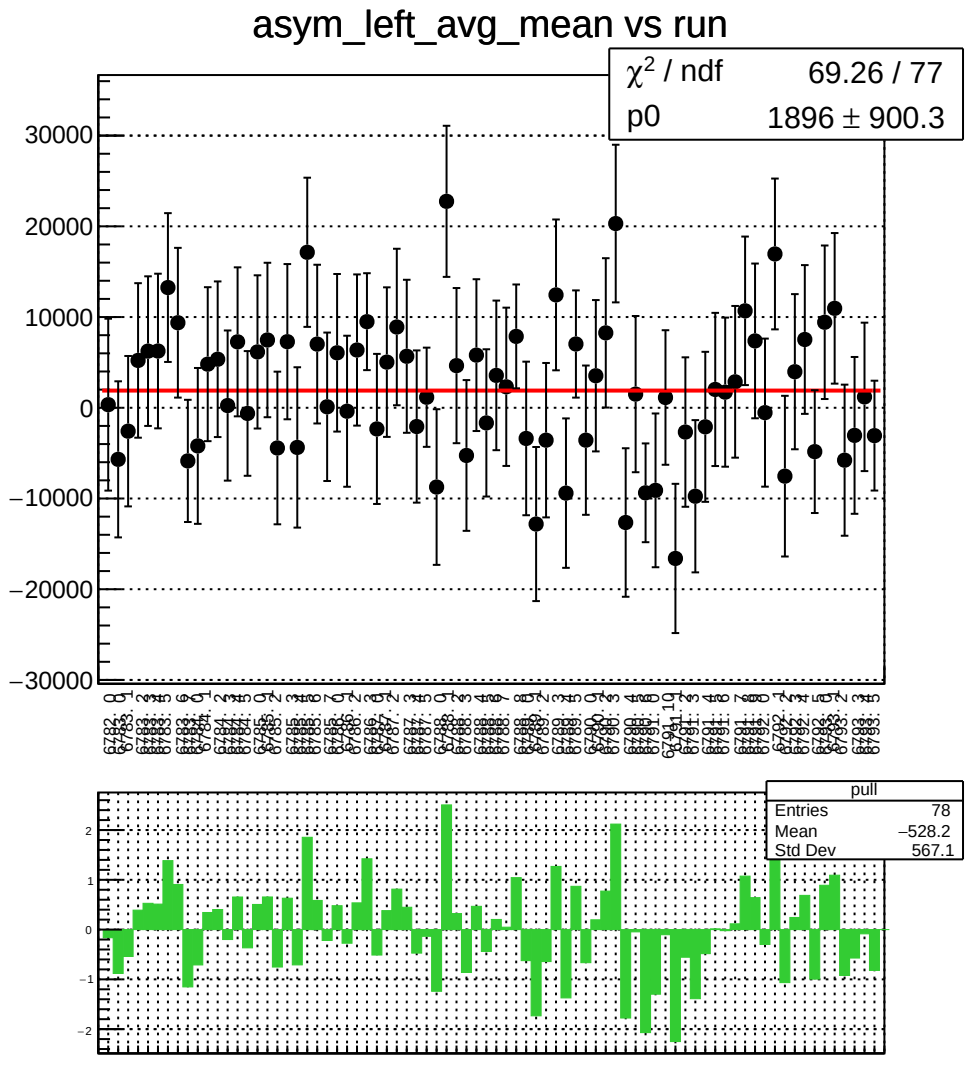

pull1D
Entries 78
Mean −0.0005676
Std Dev 0.9258

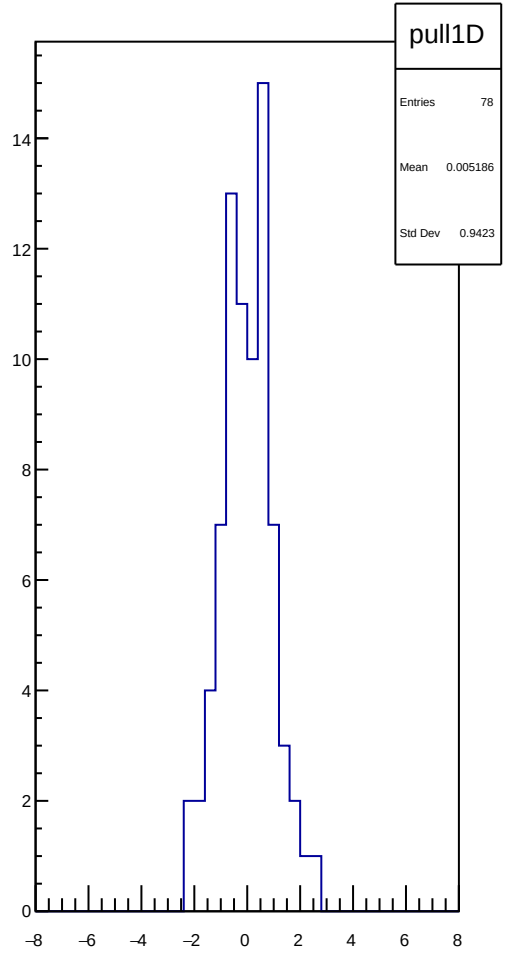

reg_asym_left_avg_rms vs run
χ^2 / ndf 104.1 / 77
p0 558.7 ± 0.4463
575
570
565
560
555
550
545

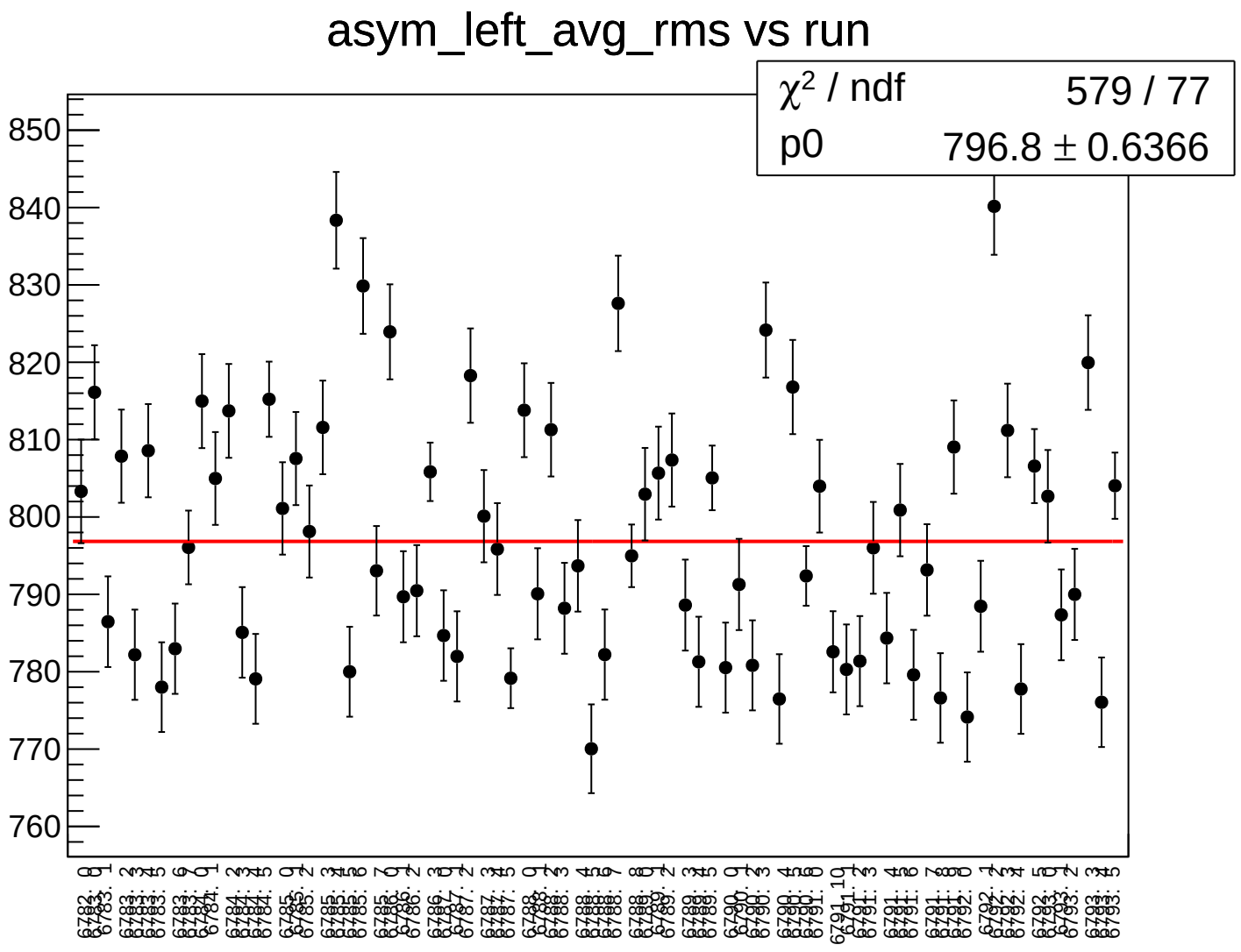

asym_left_avg_correction_mean vs run
χ² / ndf 75.03 / 77
p0 −1343 ± 641.3
pull
Entries 78
Mean −168.1
Std Dev 206.5

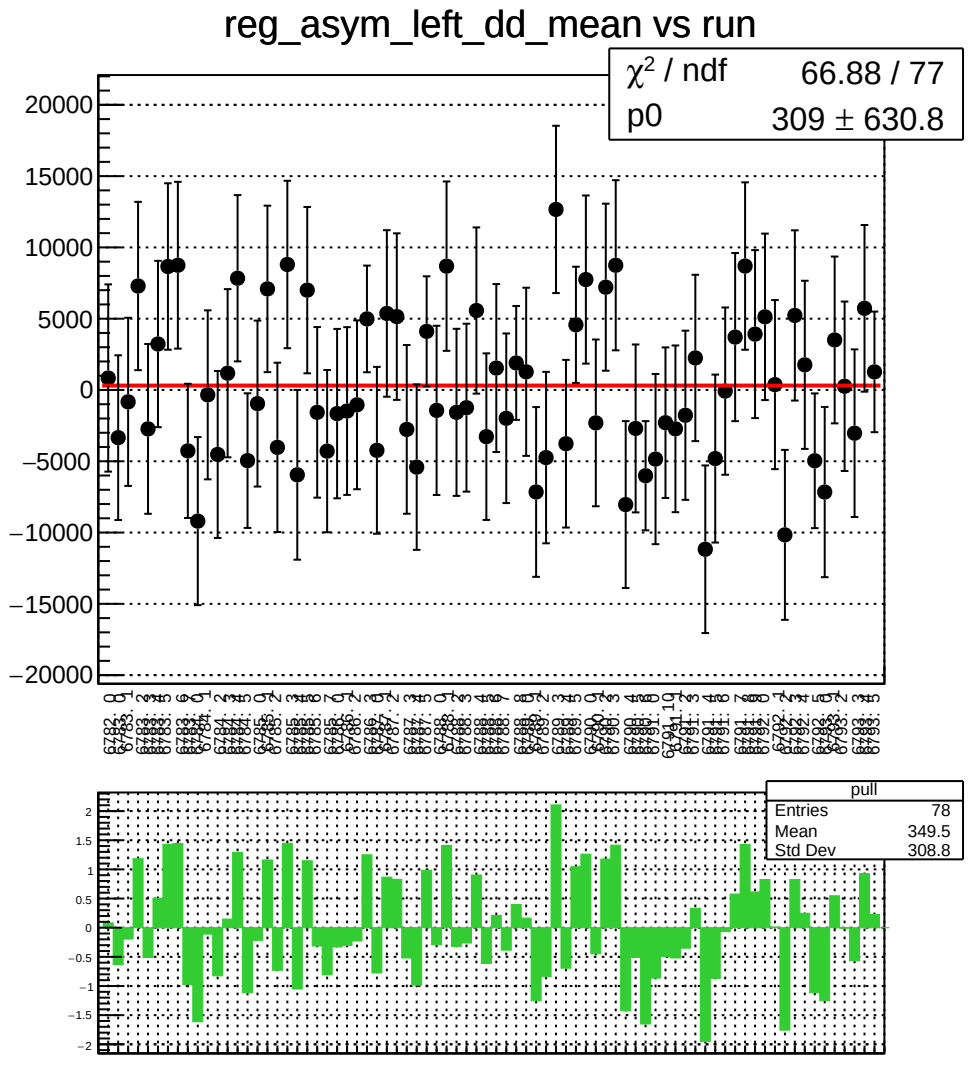

pull1D
Entries 78
Mean −0.01242
Std Dev 0.9807

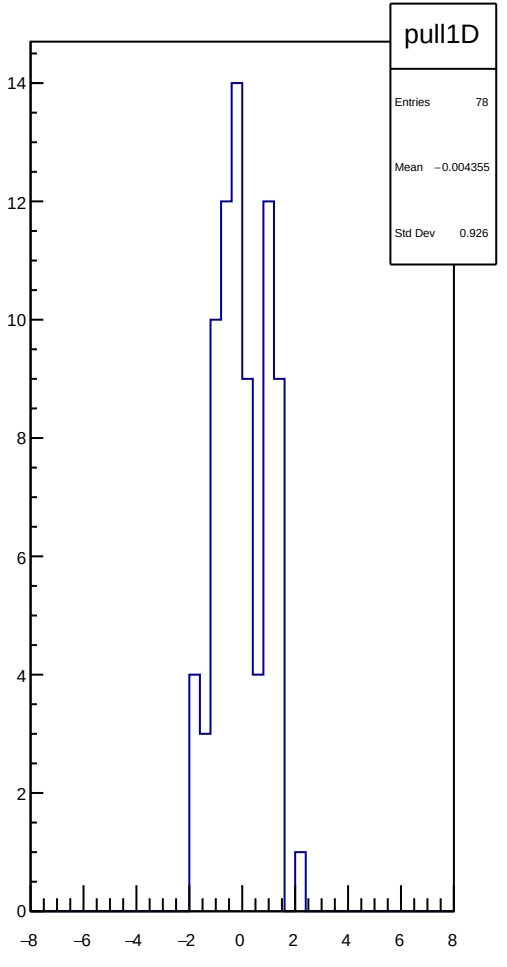

asym_left_avg_correction_rms vs run
χ² / ndf 1897 / 77
p0 567.3 ± 0.4534
620
600
580
560
540

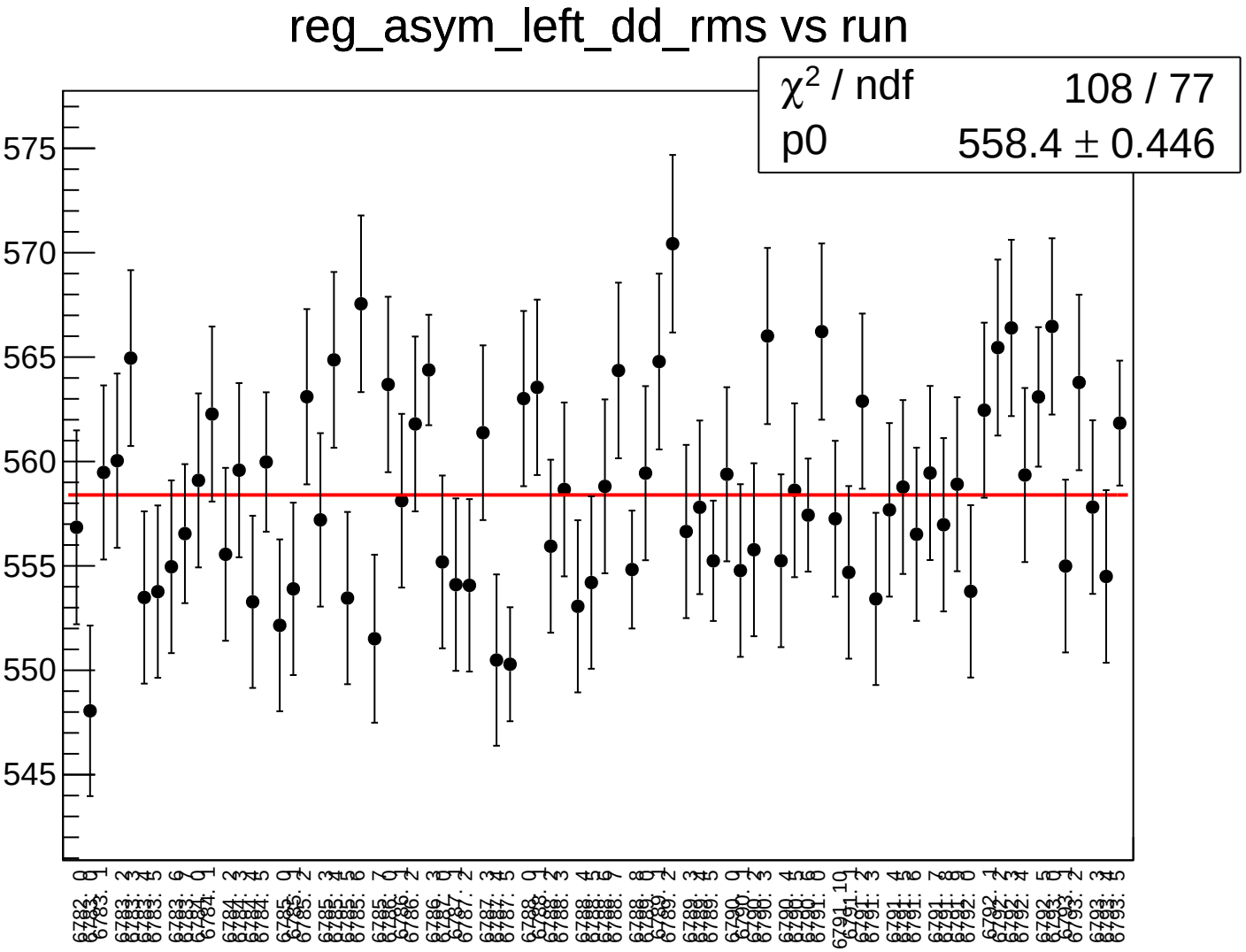

asym_left_avg_mean vs run
χ² / ndf 69.26 / 77
p0 1896 ± 900.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean −528.2
Std Dev 567.1
2
1
0
−1
−2

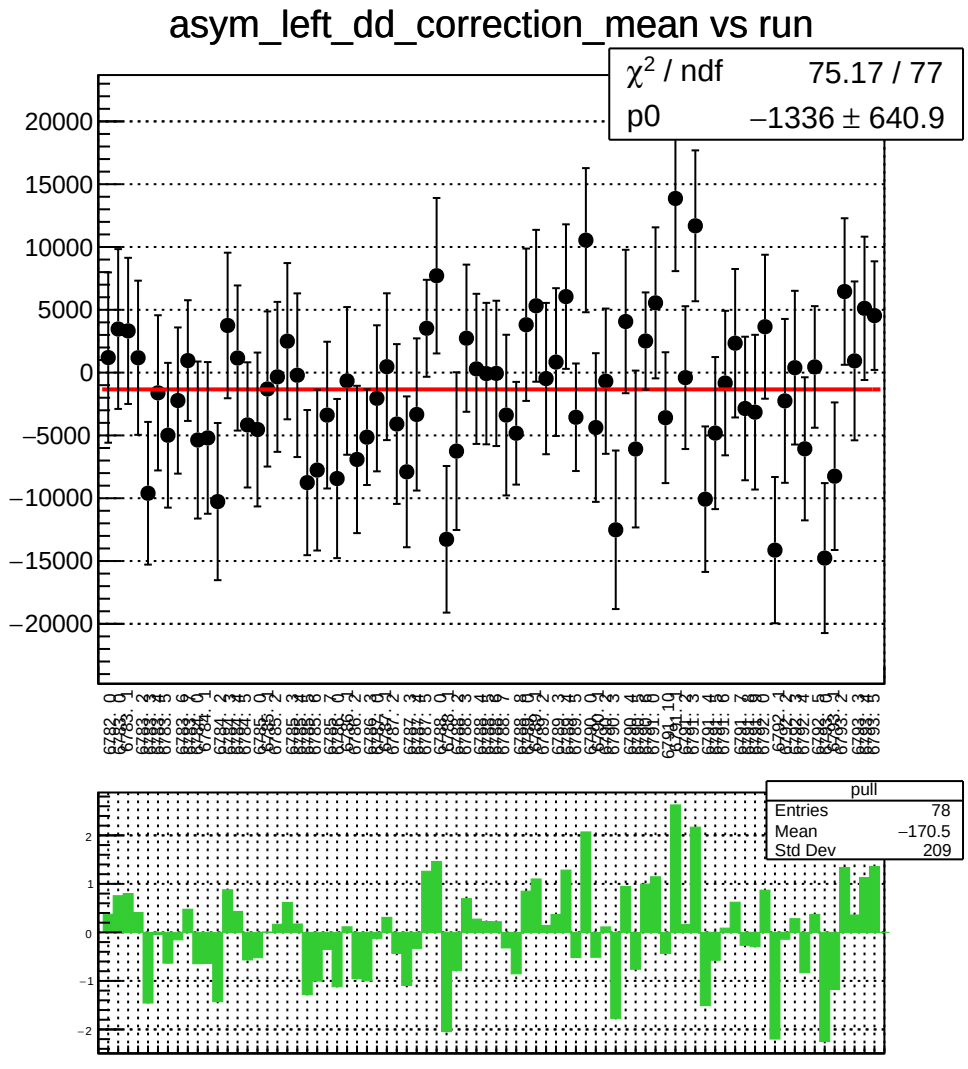

pull1D
Entries 78
Mean 0.005186
Std Dev 0.9423
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

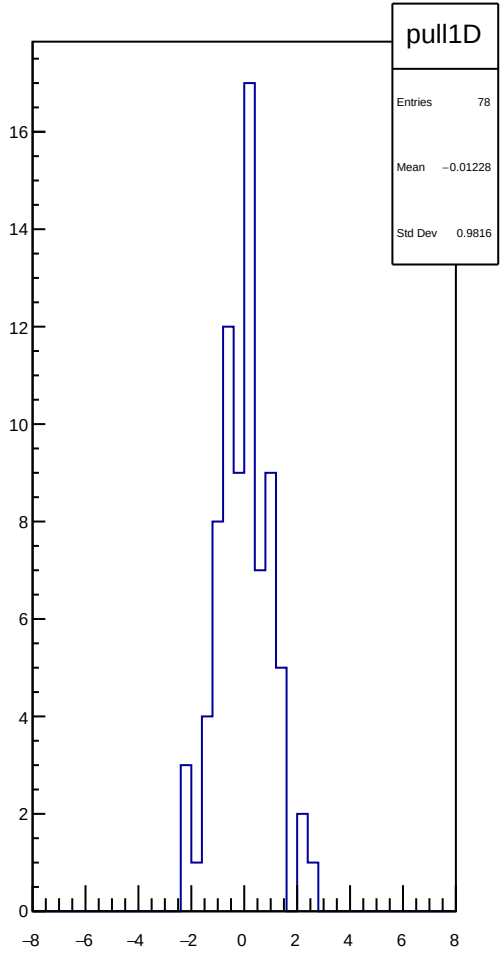

asym_left_avg_rms vs run
χ² / ndf 579 / 77
p0 796.8 ± 0.6366
850
840
830
820
810
800
790
780
770
760

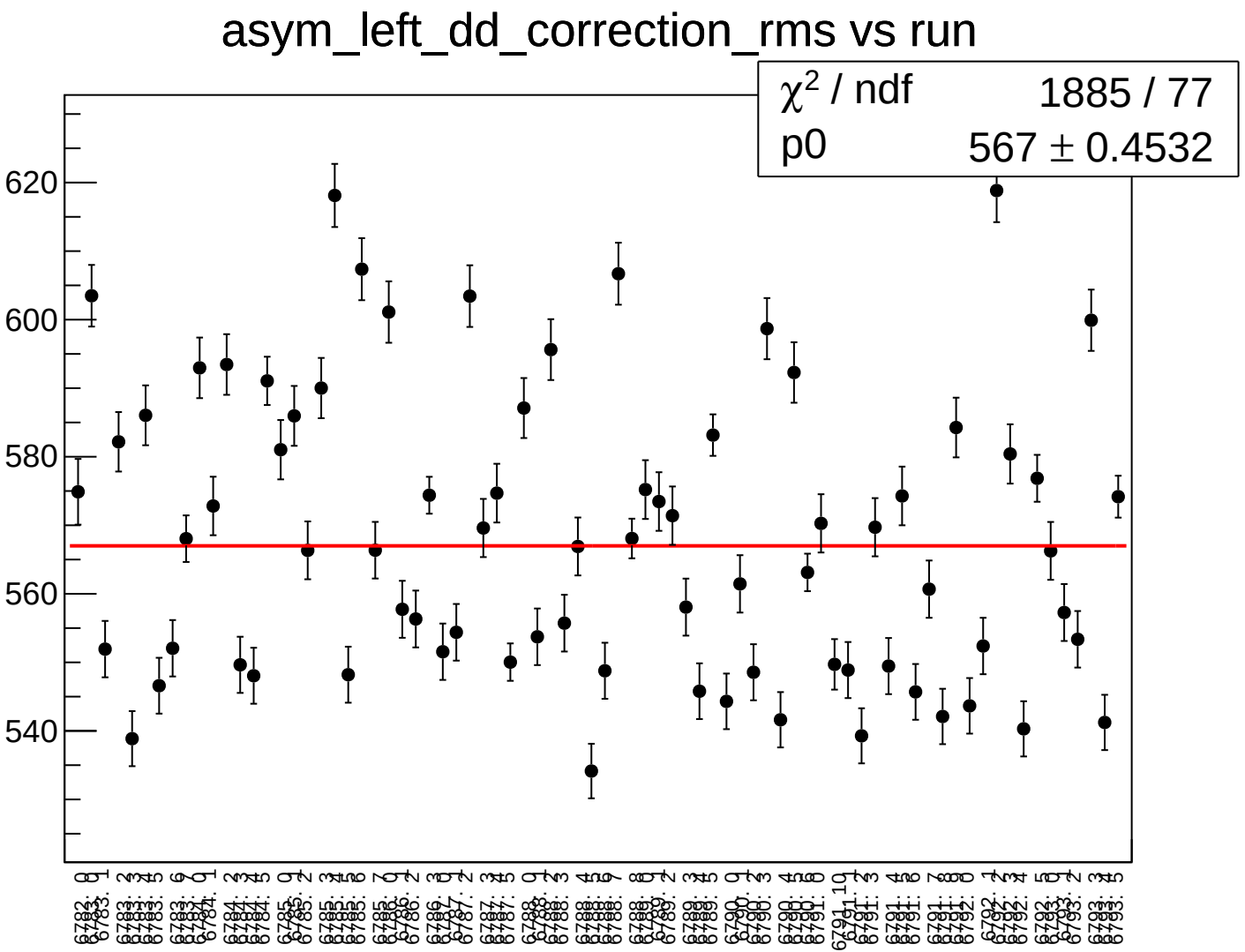

reg_asym_left_dd_mean vs run
χ² / ndf 66.88 / 77
p0 309 ± 630.8
pull
Entries 78
Mean 349.5
Std Dev 308.8

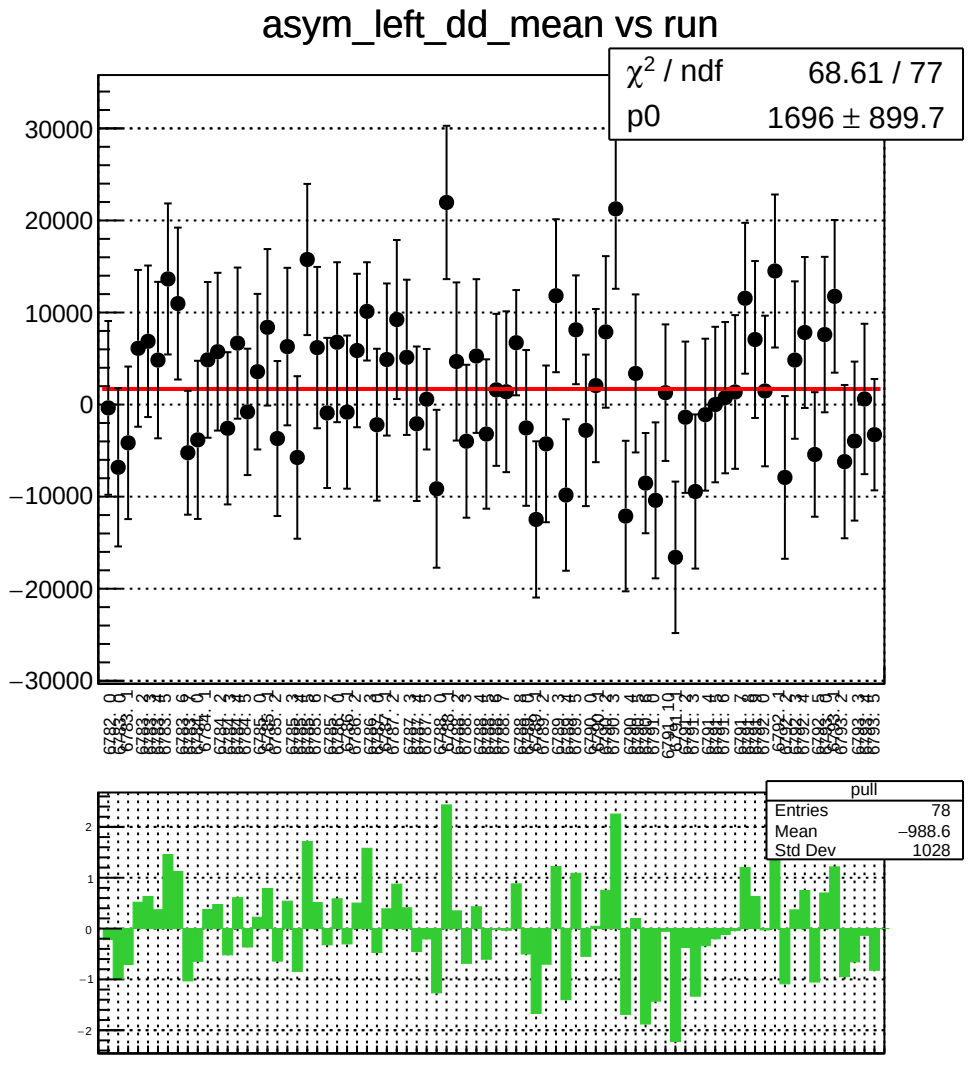

pull1D
Entries 78
Mean −0.004355
Std Dev 0.926

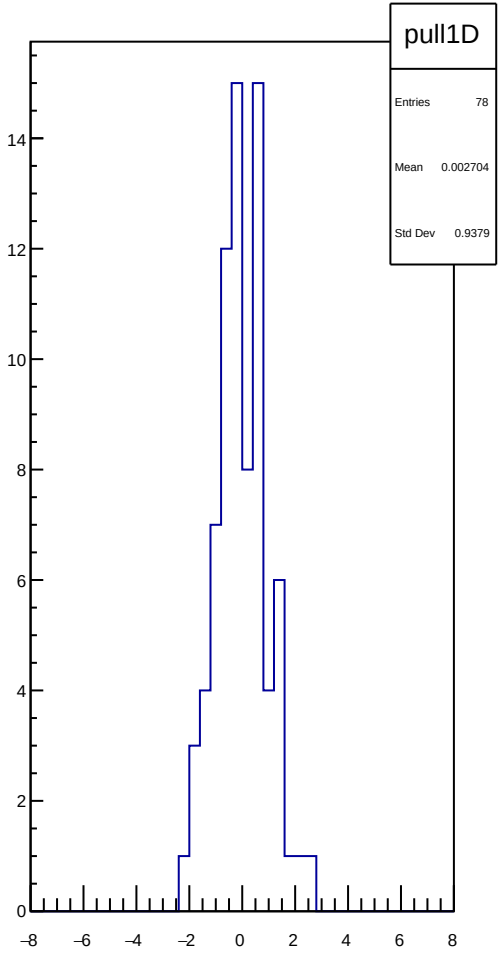

reg_asym_left_dd_rms vs run
χ² / ndf 108 / 77
p0 558.4 ± 0.446
575
570
565
560
555
550
545

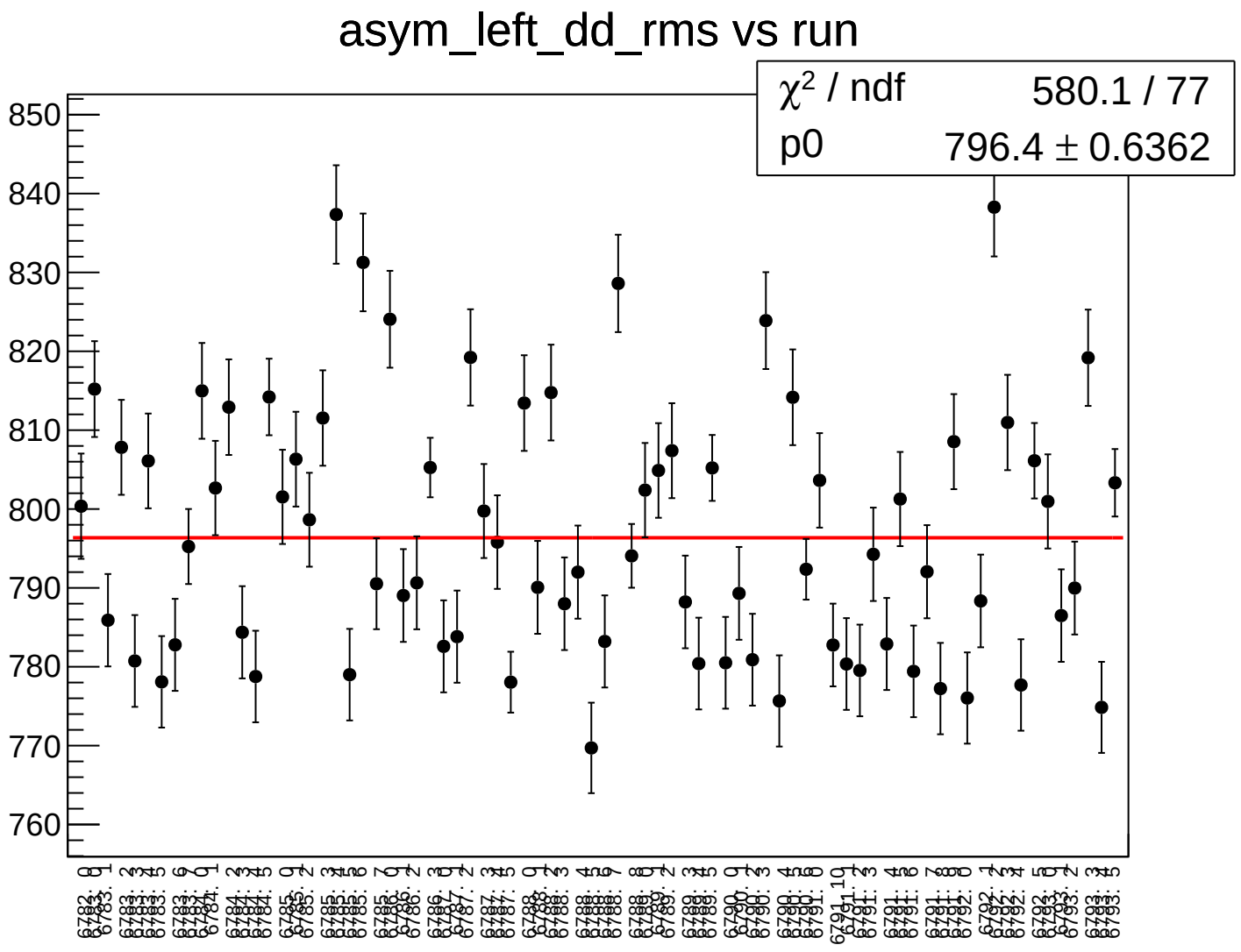

asym_left_dd_correction_mean vs run
χ² / ndf 75.17 / 77
p0 −1336 ± 640.9
pull
Entries 78
Mean −170.5
Std Dev 209

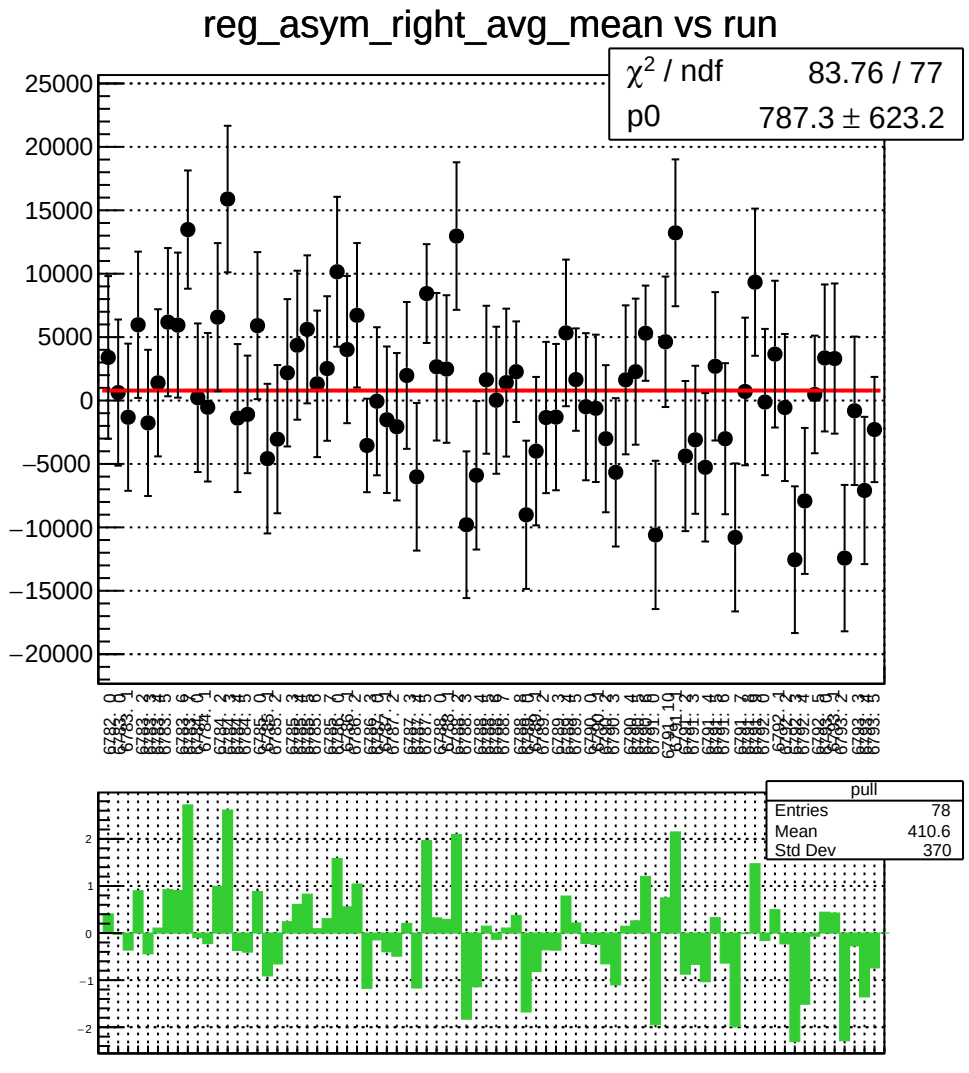

pull1D
Entries 78
Mean −0.01228
Std Dev 0.9816

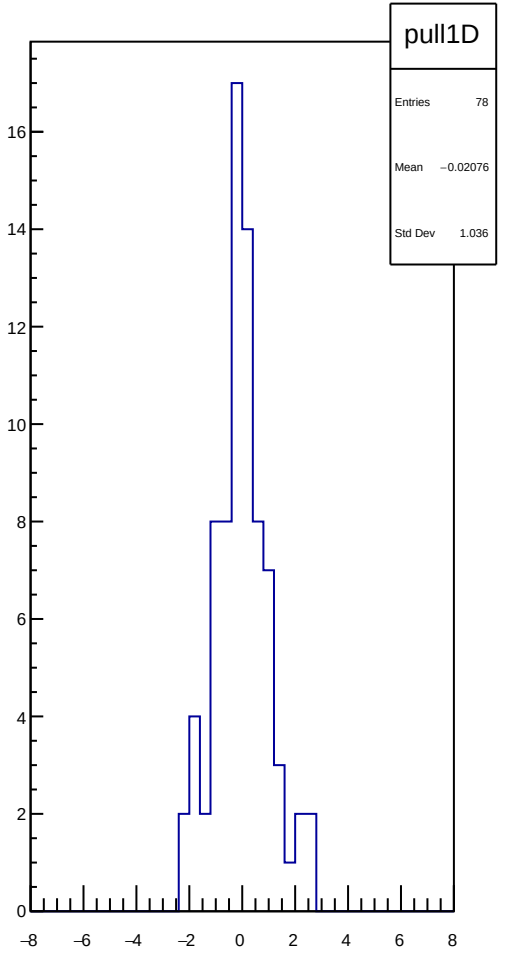

asym_left_dd_correction_rms vs run
χ² / ndf 1885 / 77
p0 567 ± 0.4532
620
600
580
560
540

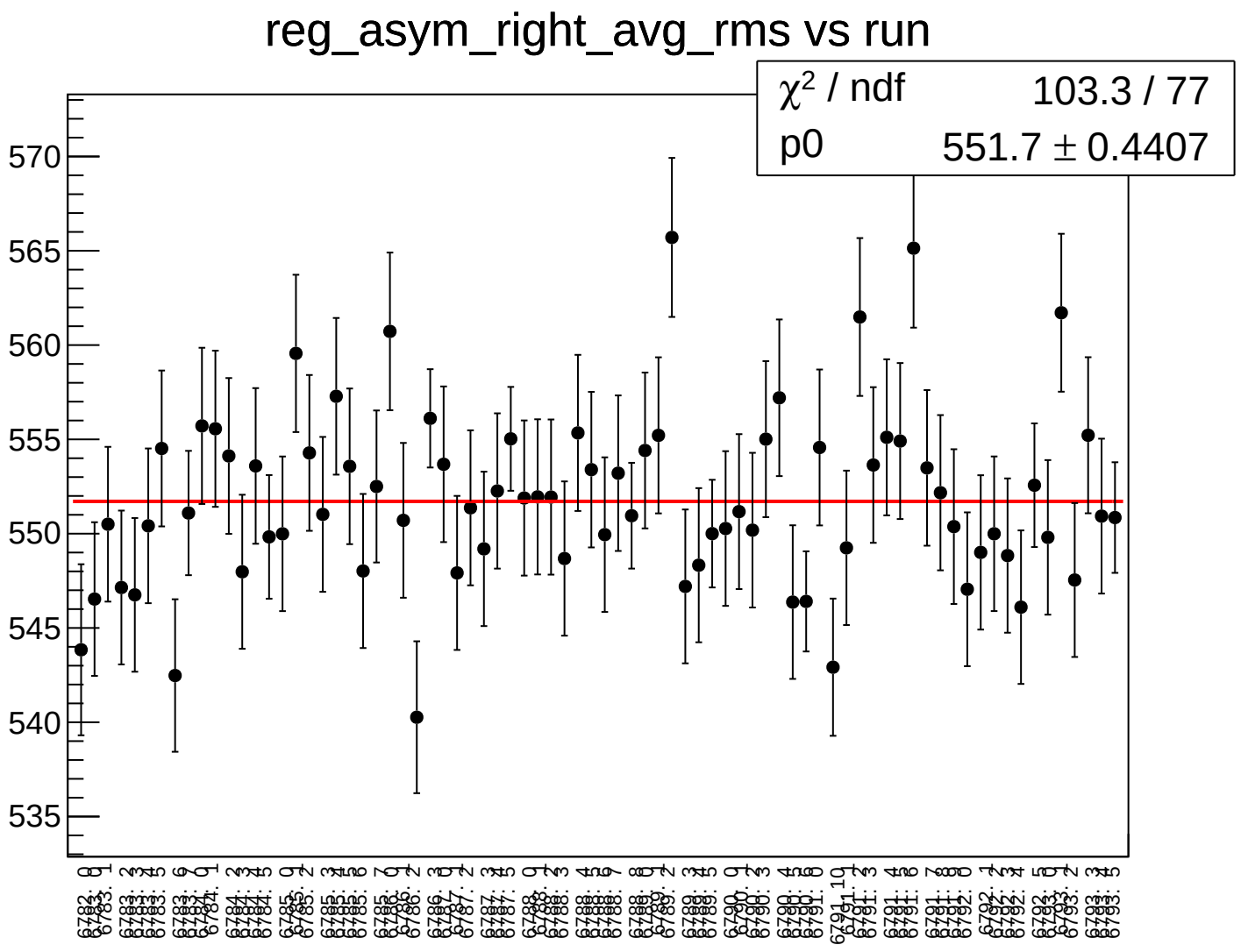

asym_left_dd_mean vs run
χ^2 / ndf 68.61 / 77
p0 1696 ± 899.7
pull
Entries 78
Mean −988.6
Std Dev 1028

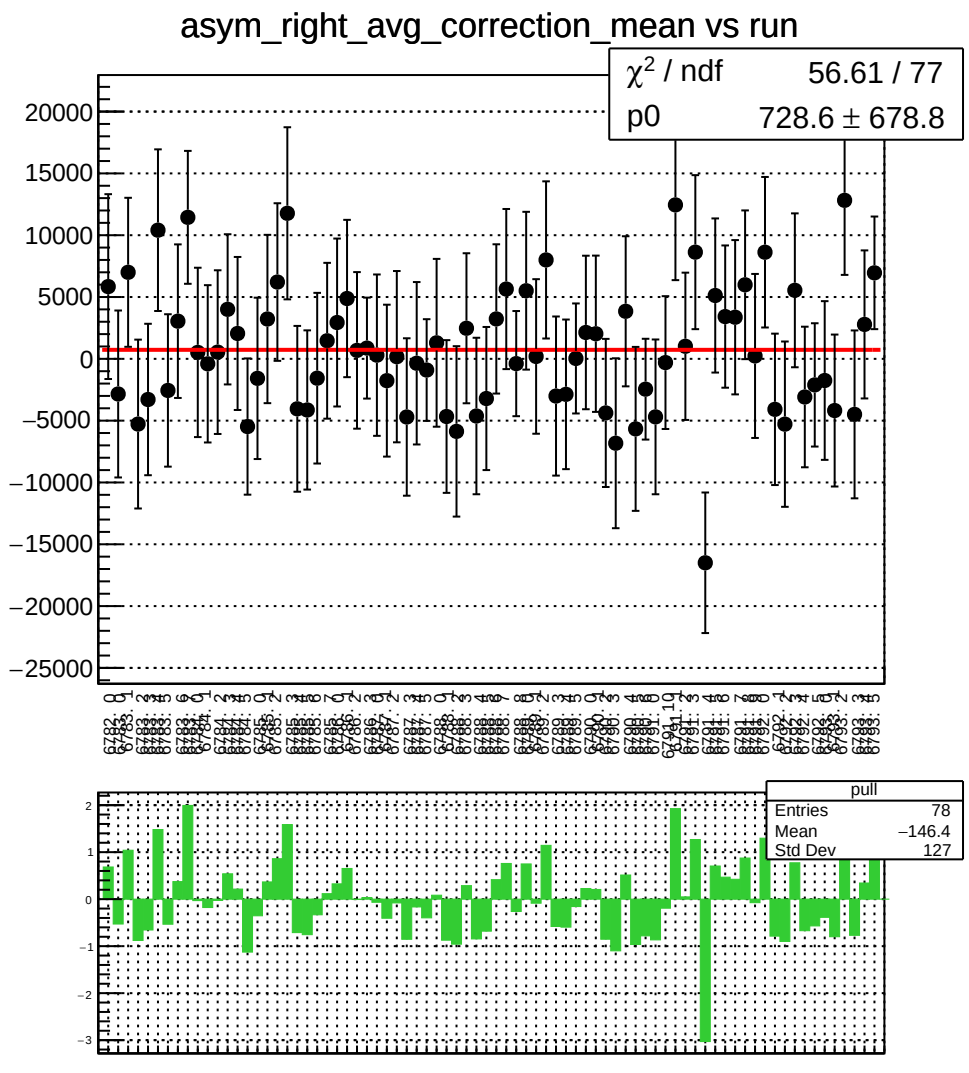

pull1D
Entries 78
Mean 0.002704
Std Dev 0.9379

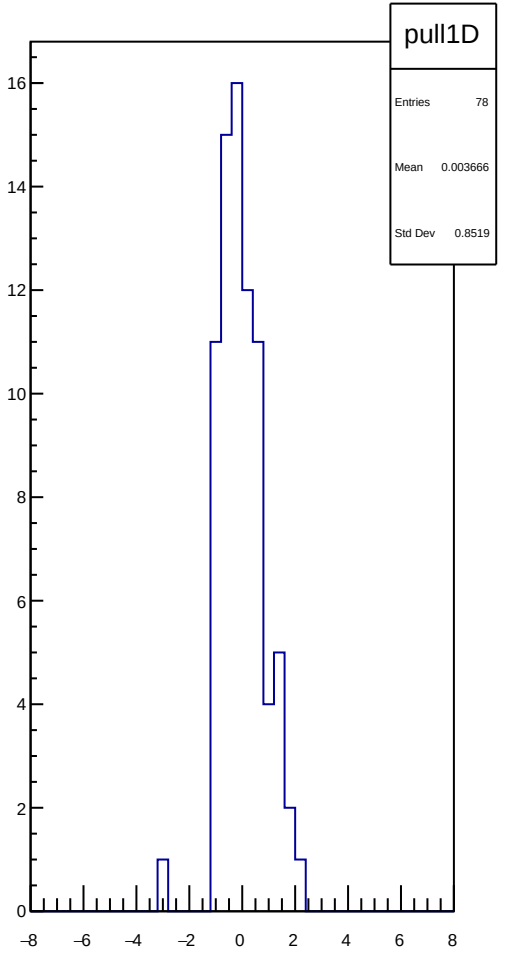

asym_left_dd_rms vs run
χ² / ndf 580.1 / 77
p0 796.4 ± 0.6362
850
840
830
820
810
800
790
780
770
760

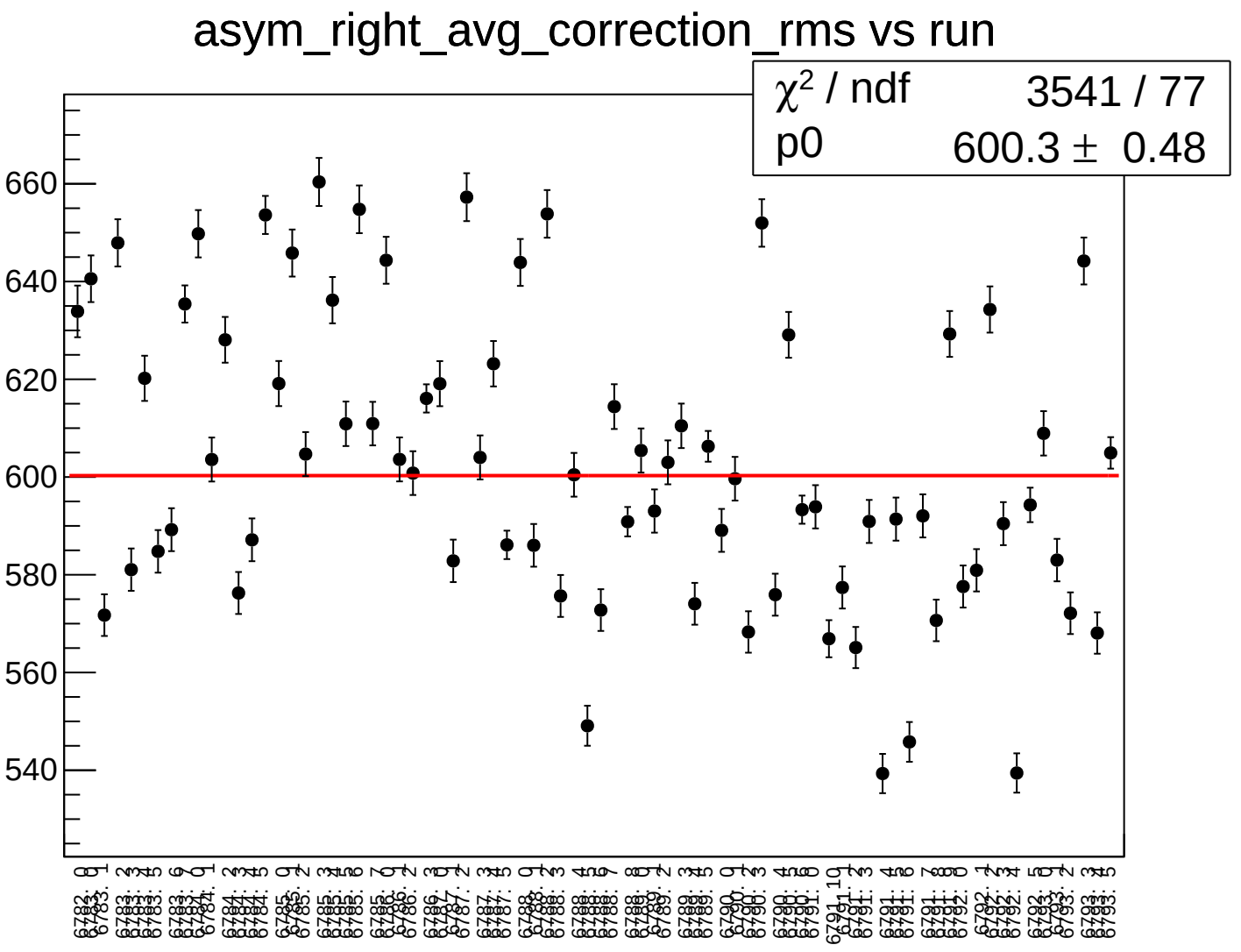

reg_asym_right_avg_mean vs run
χ² / ndf 83.76 / 77
p0 787.3 ± 623.2
pull
Entries 78
Mean 410.6
Std Dev 370

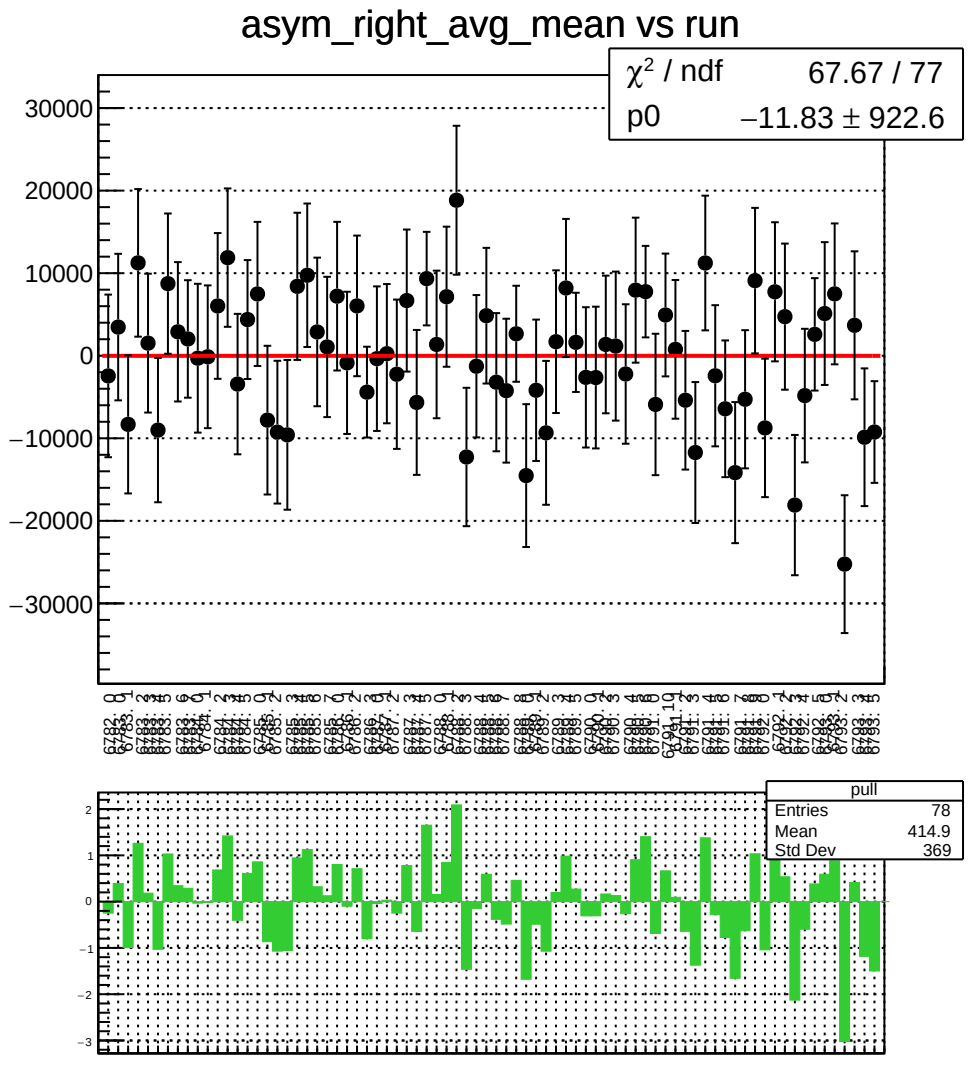

pull1D
Entries 78
Mean −0.02076
Std Dev 1.036

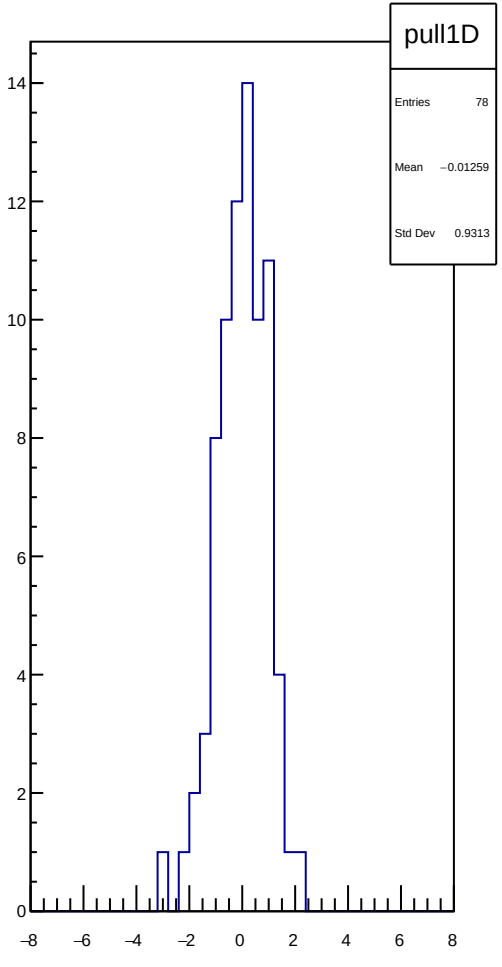

reg_asym_right_avg_rms vs run
χ² / ndf 103.3 / 77
p0 551.7 ± 0.4407
570
565
560
555
550
545
540
535

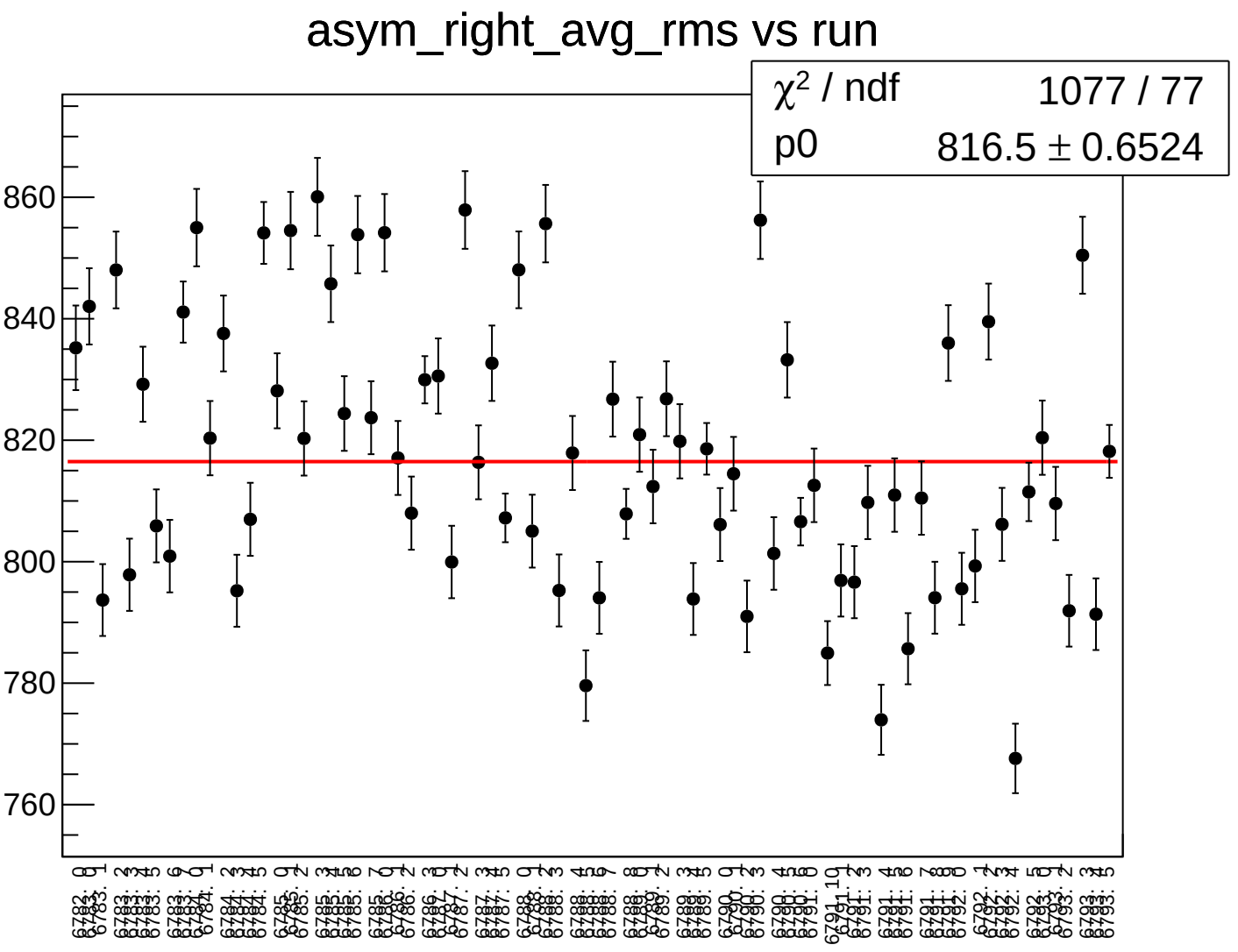

asym_right_avg_correction_mean vs run
χ² / ndf 56.61 / 77
p0 728.6 ± 678.8
pull
Entries 78
Mean −146.4
Std Dev 127

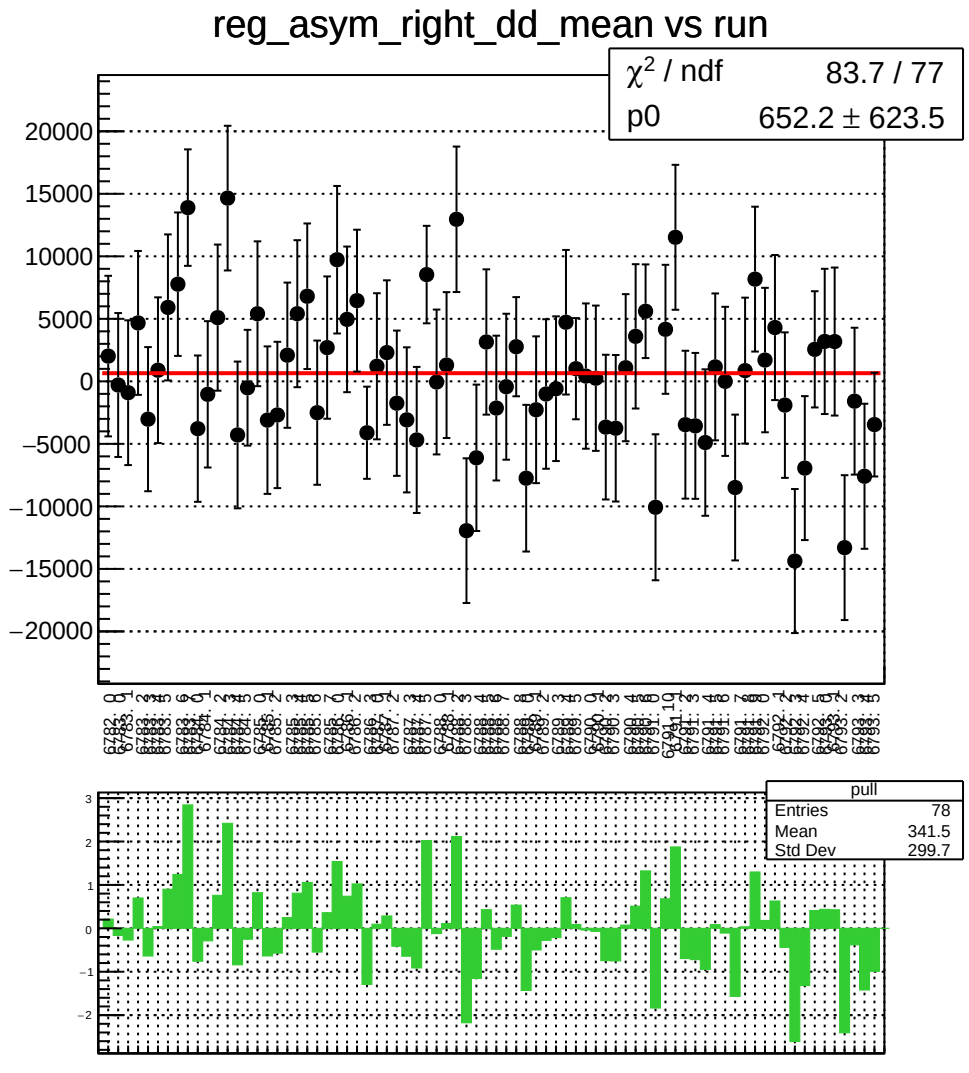

pull1D
Entries 78
Mean 0.003666
Std Dev 0.8519

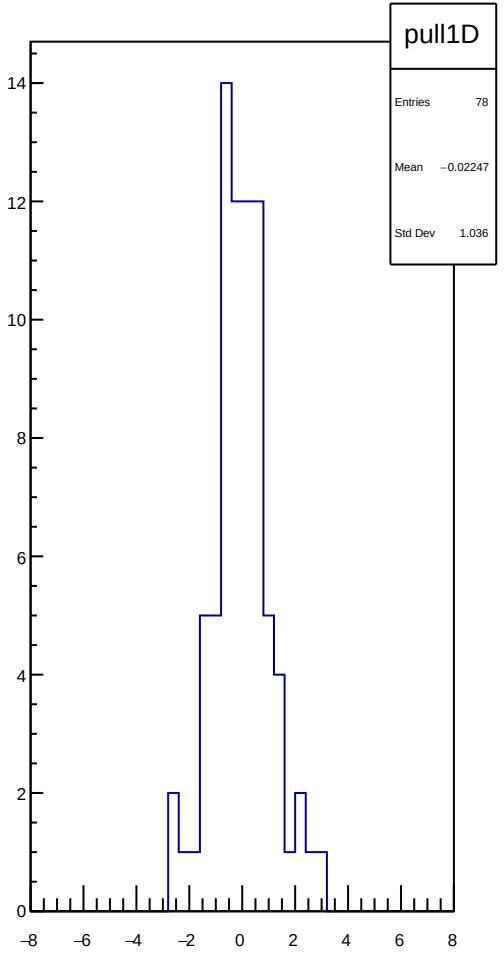

asym_right_avg_correction_rms vs run
χ² / ndf 3541 / 77
p0 600.3 ± 0.48
660
640
620
600
580
560
540

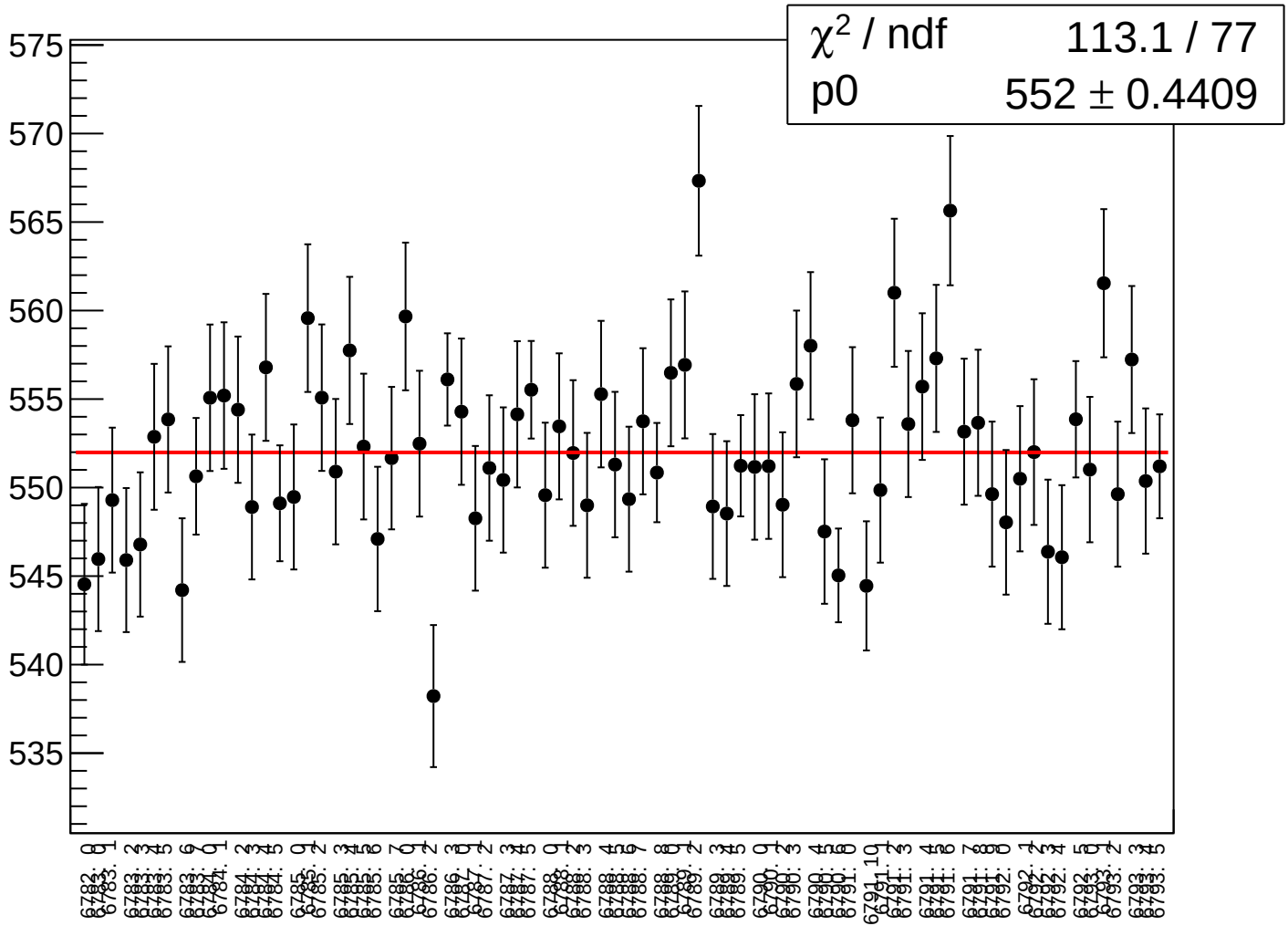

asym_right_avg_mean vs run
χ² / ndf 67.67 / 77
p0 −11.83 ± 922.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean 414.9
Std Dev 369
2
1
0
−1
−2
−3

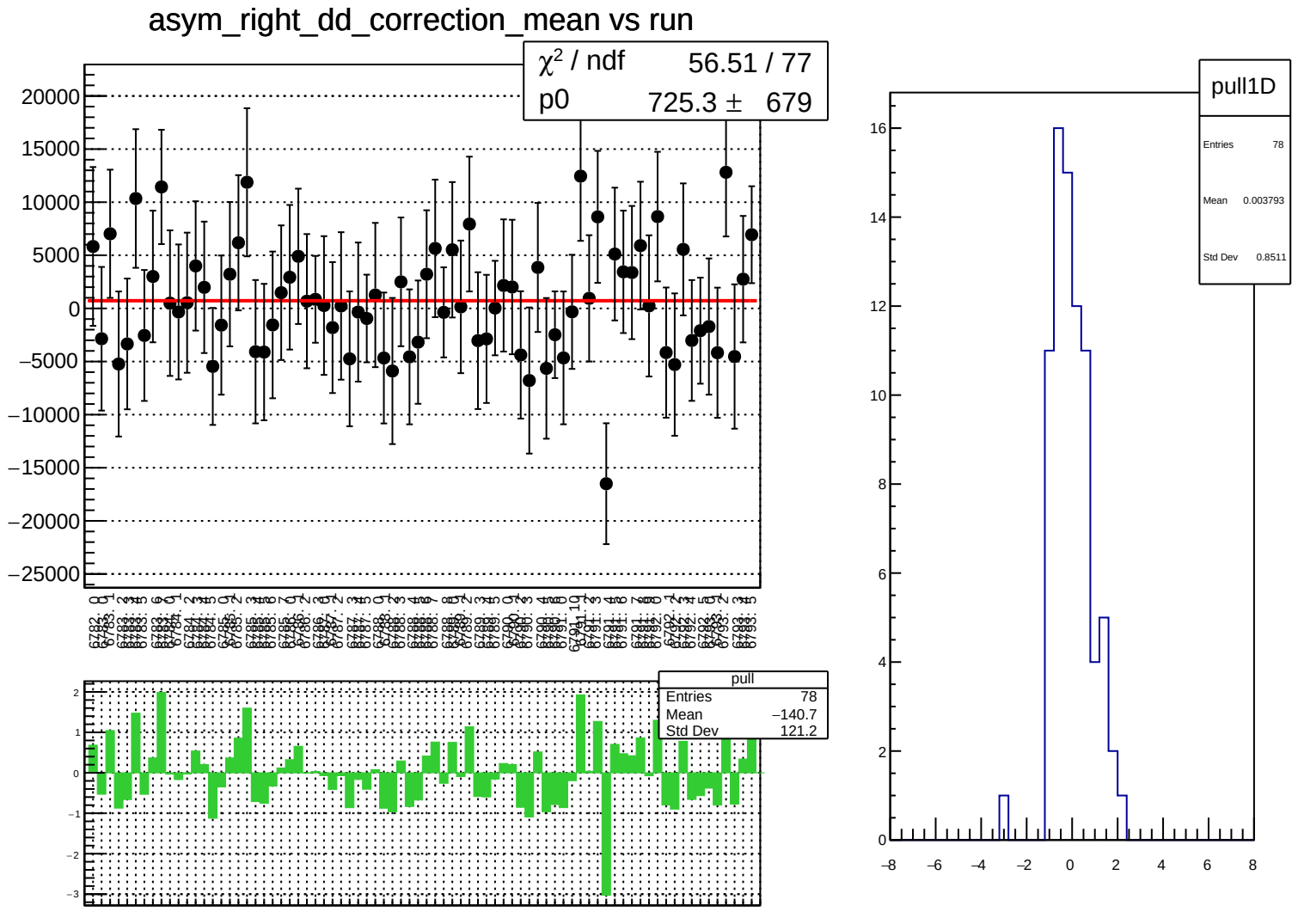

pull1D
Entries 78
Mean −0.01259
Std Dev 0.9313
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

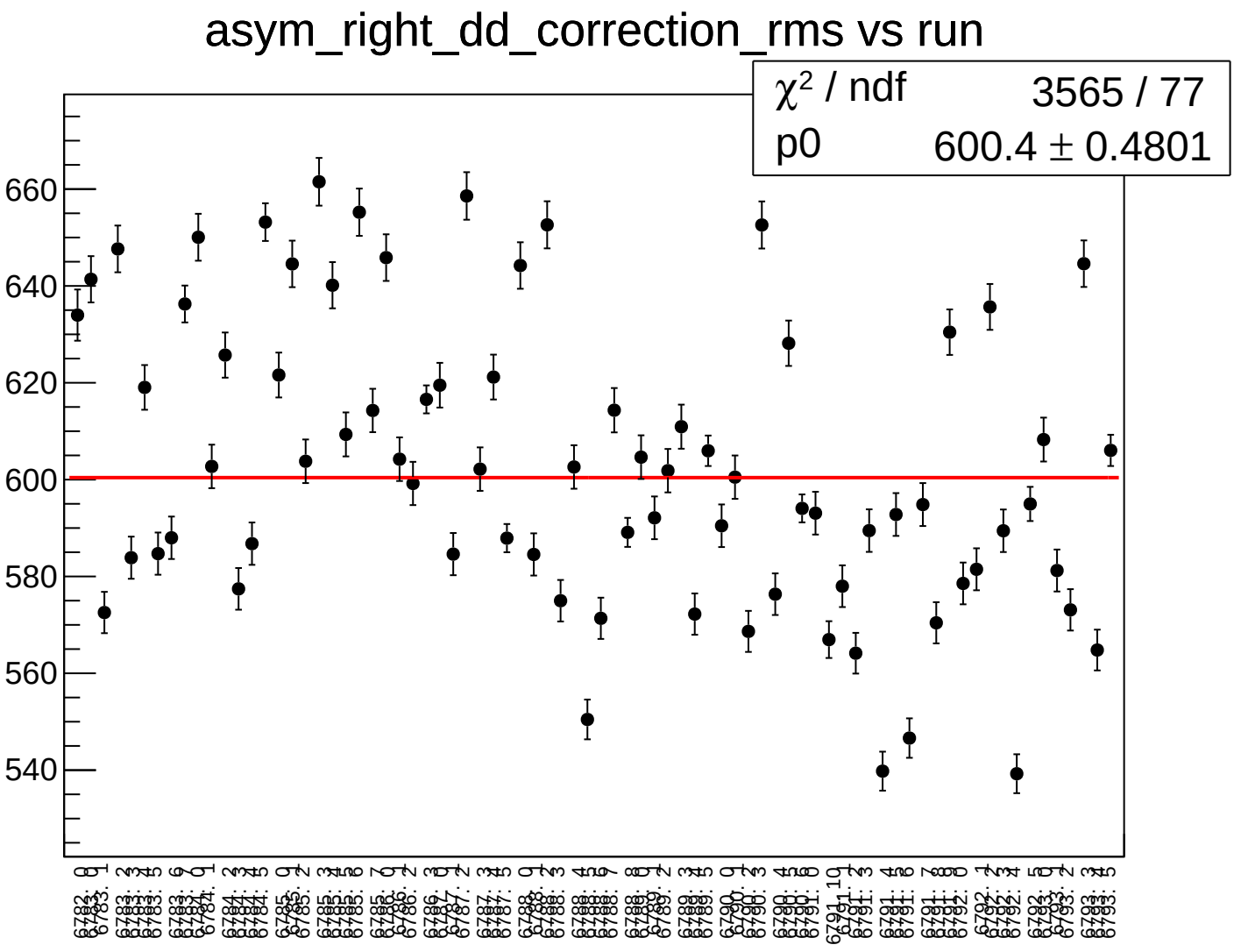

asym_right_avg_rms vs run
χ² / ndf 1077 / 77
p0 816.5 ± 0.6524
860
840
820
800
780
760

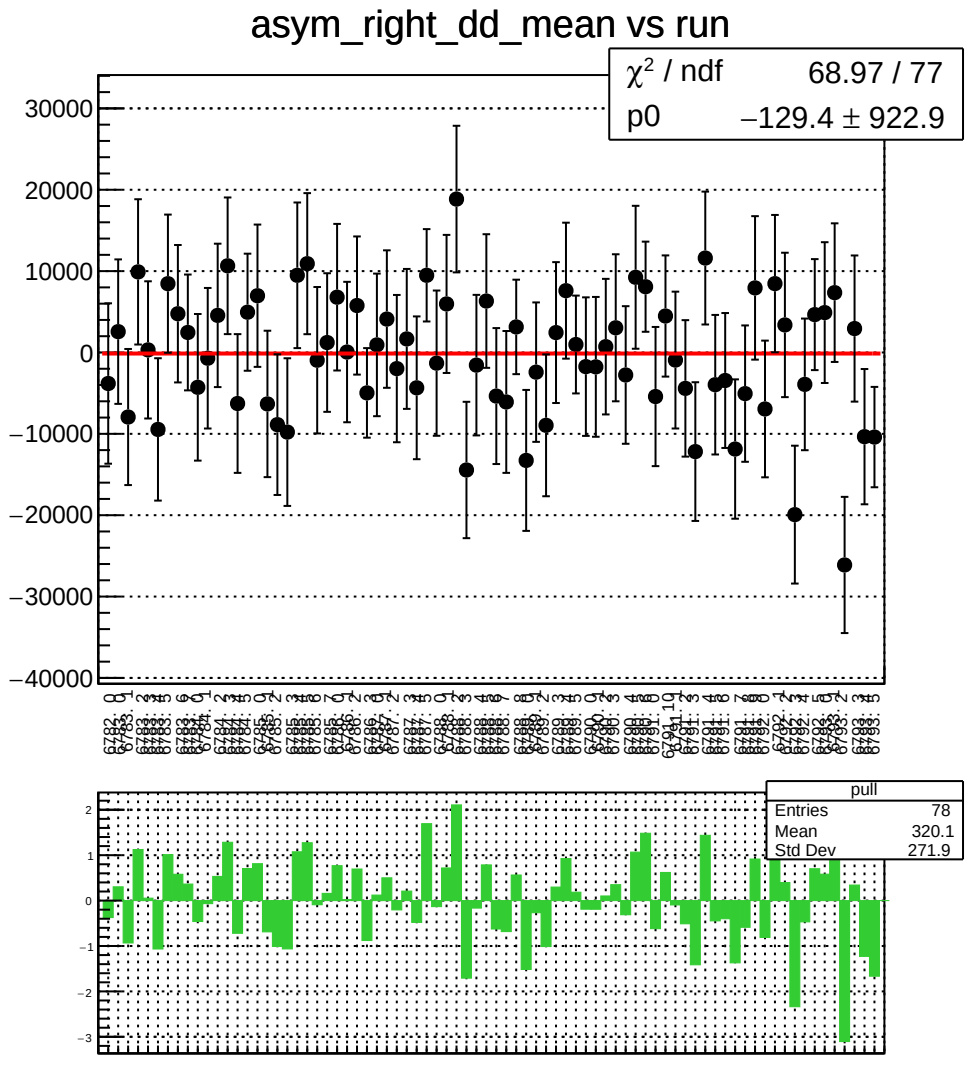

reg_asym_right_dd_mean vs run
χ^2 / ndf 83.7 / 77
p0 652.2 ± 623.5
pull
Entries 78
Mean 341.5
Std Dev 299.7

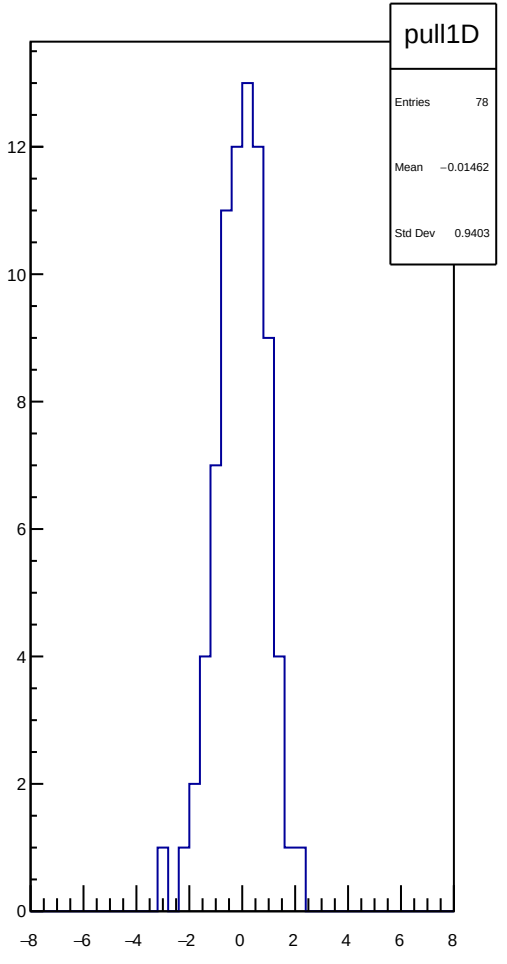

pull1D
Entries 78
Mean −0.02247
Std Dev 1.036

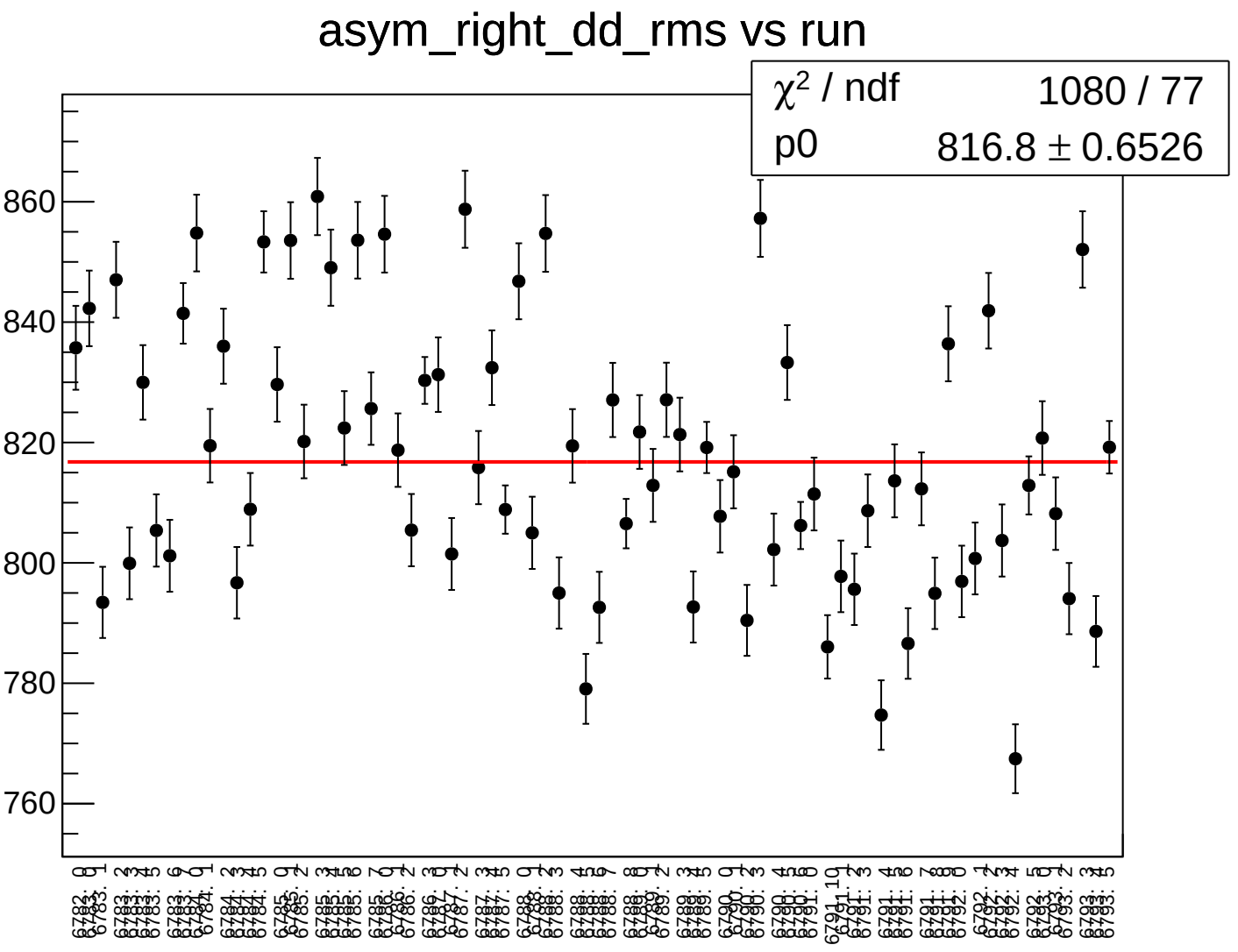

reg_asym_right_dd_rms vs run
χ² / ndf 113.1 / 77
p0 552 ± 0.4409
575
570
565
560
555
550
545
540
535

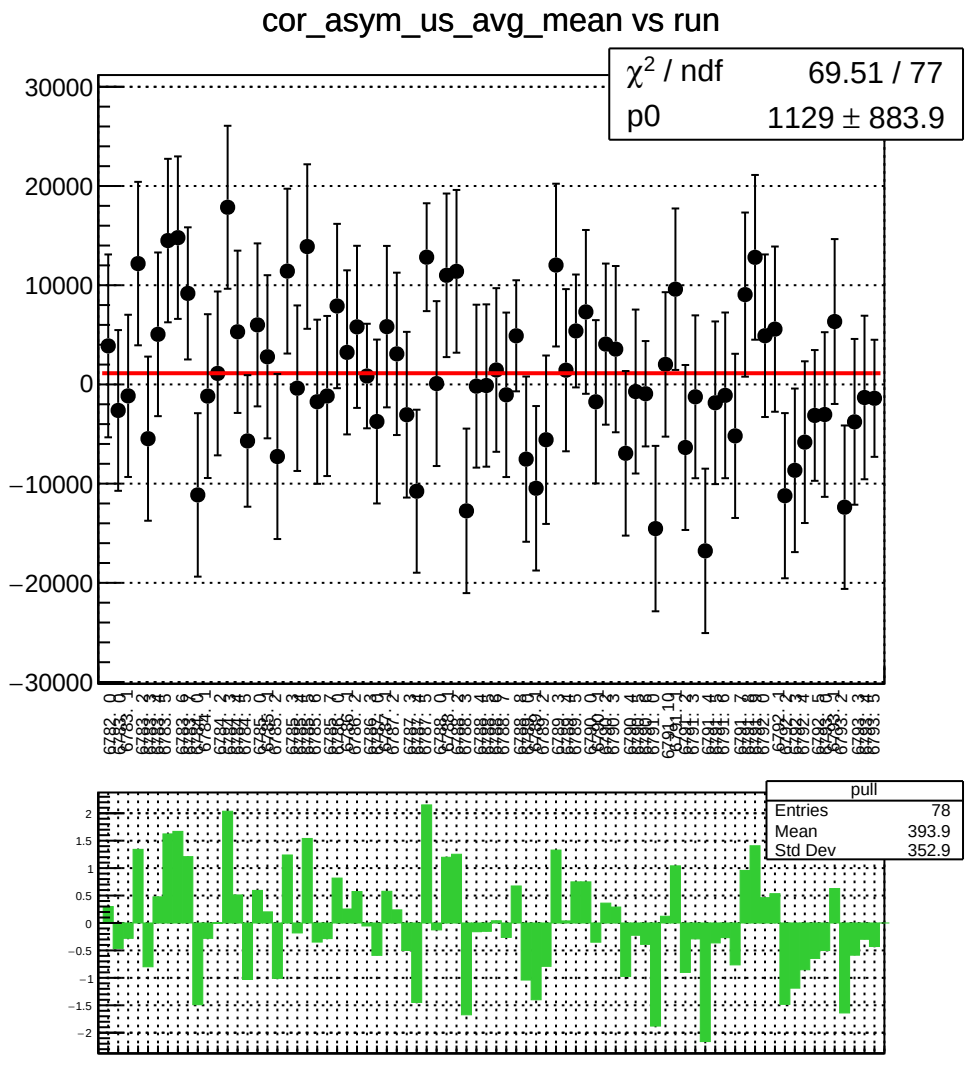

asym_right_dd_correction_mean vs run
χ² / ndf 56.51 / 77
p0 725.3 ± 679
pull
Entries 78
Mean −140.7
Std Dev 121.2
pull1D
Entries 78
Mean 0.003793
Std Dev 0.8511

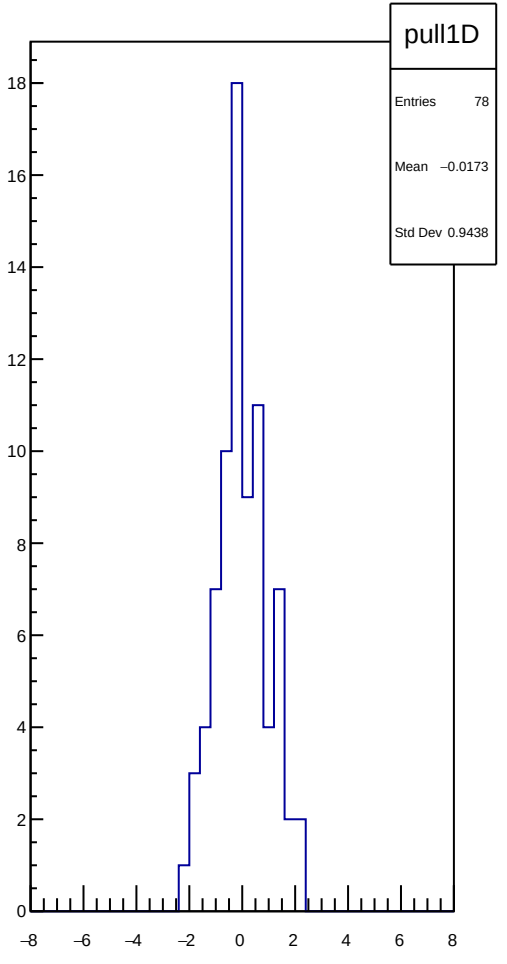

asym_right_dd_correction_rms vs run
χ² / ndf 3565 / 77
p0 600.4 ± 0.4801
660
640
620
600
580
560
540

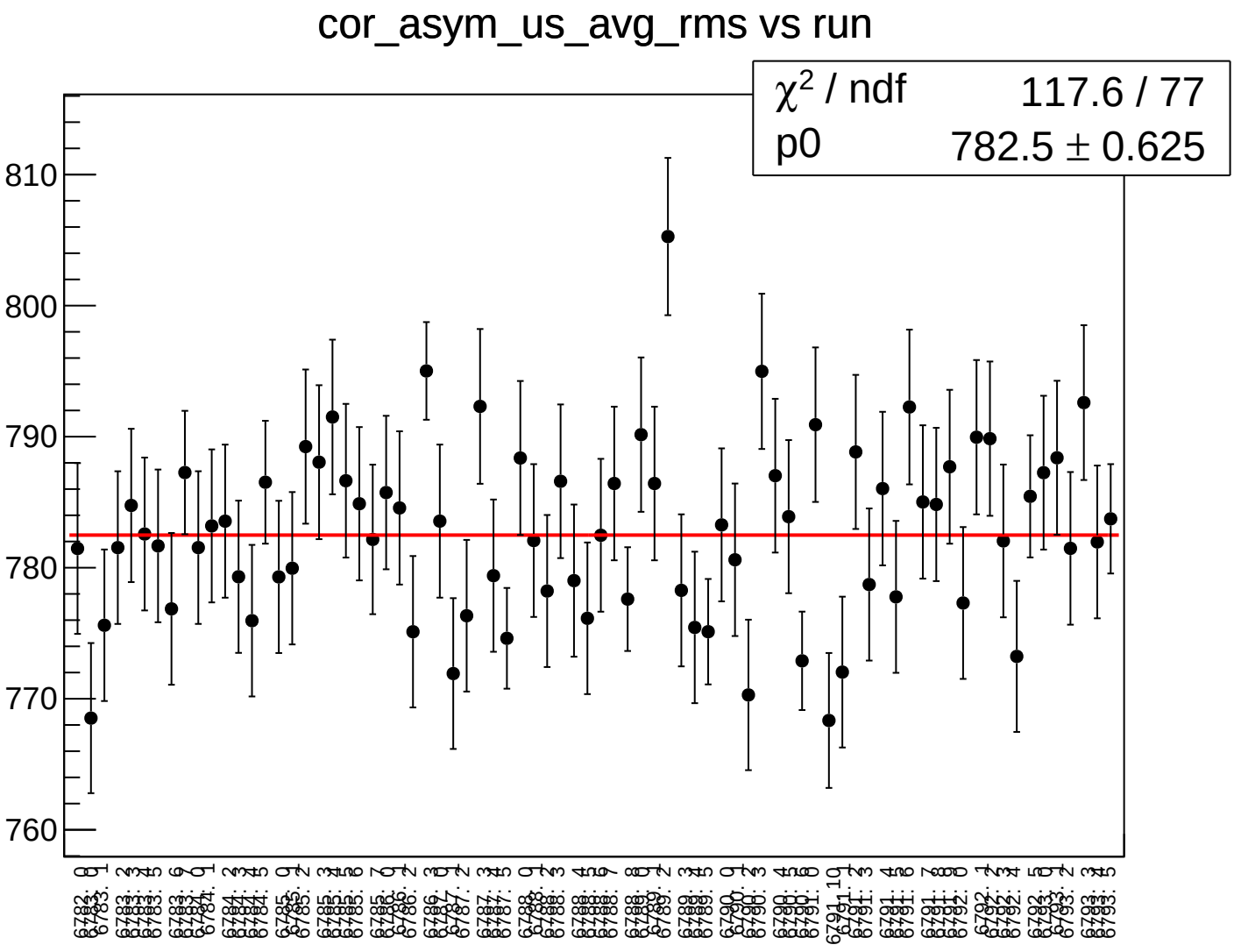

asym_right_dd_mean vs run
χ² / ndf 68.97 / 77
p0 −129.4 ± 922.9
pull
Entries 78
Mean 320.1
Std Dev 271.9

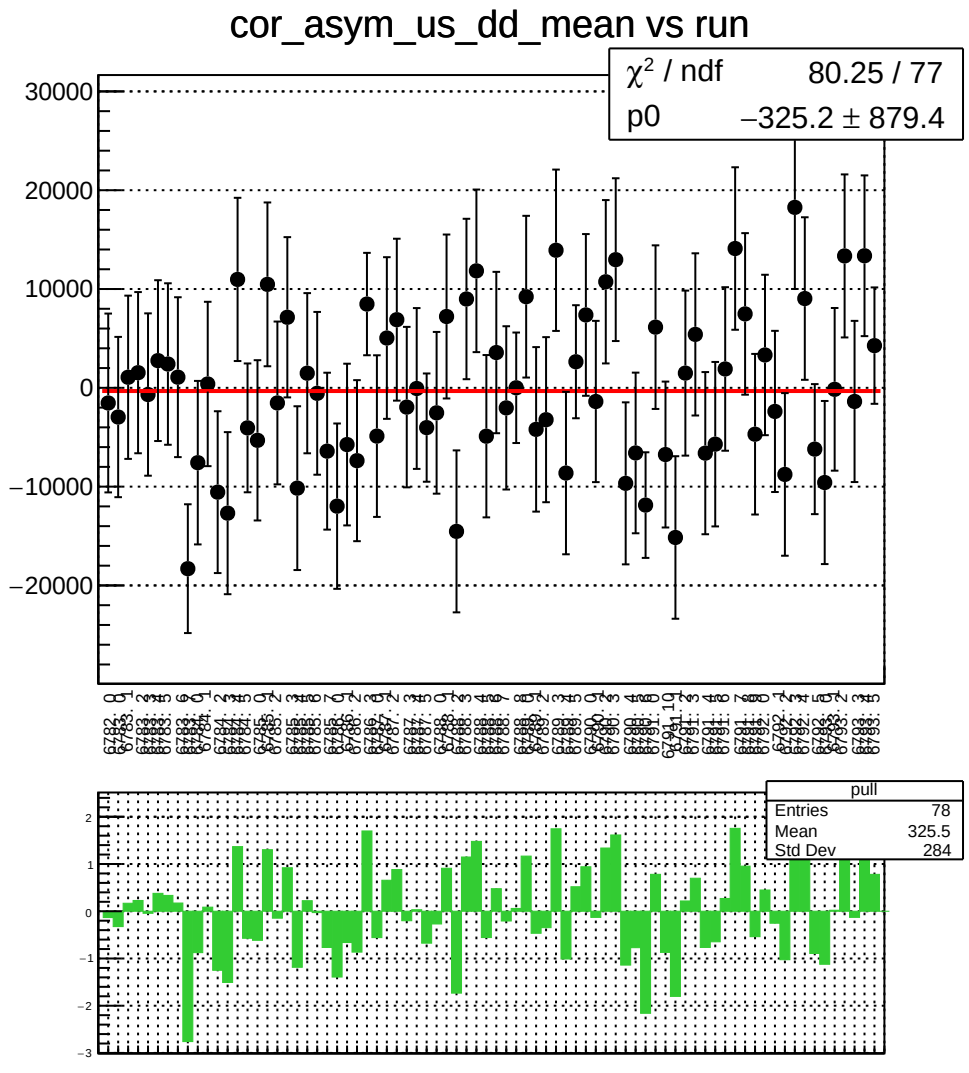

pull1D
Entries 78
Mean −0.01462
Std Dev 0.9403

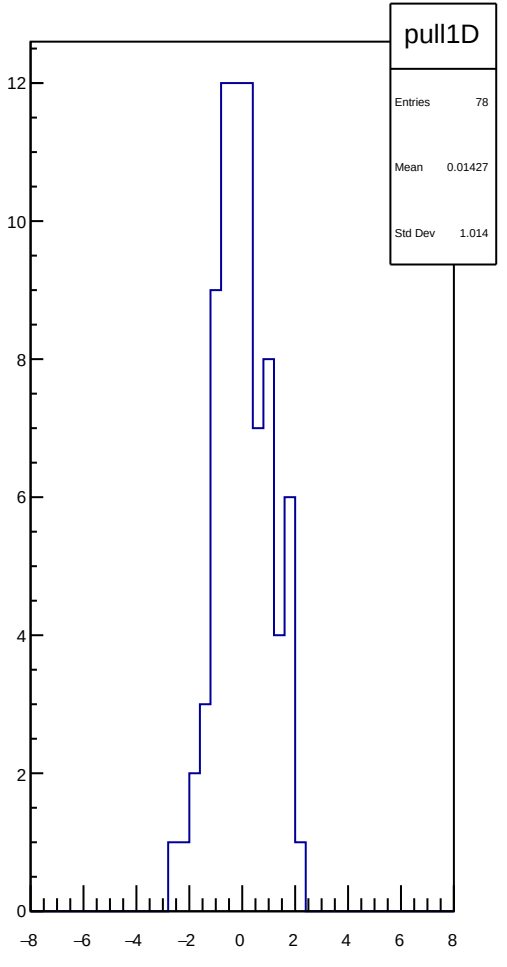

asym_right_dd_rms vs run
χ² / ndf 1080 / 77
p0 816.8 ± 0.6526
860
840
820
800
780
760

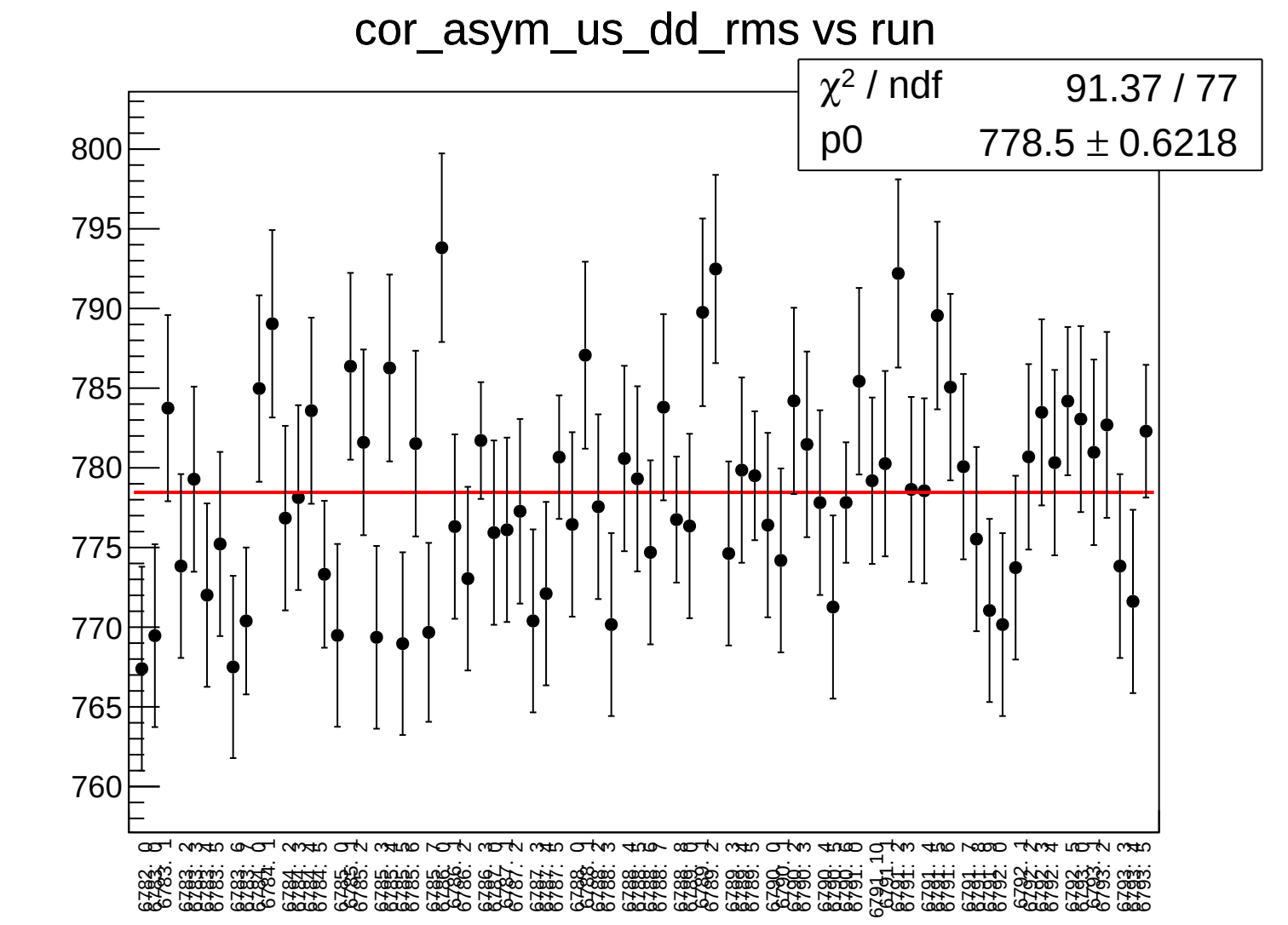

cor_asym_us_avg_mean vs run
χ² / ndf 69.51 / 77
p0 1129 ± 883.9
pull
Entries 78
Mean 393.9
Std Dev 352.9

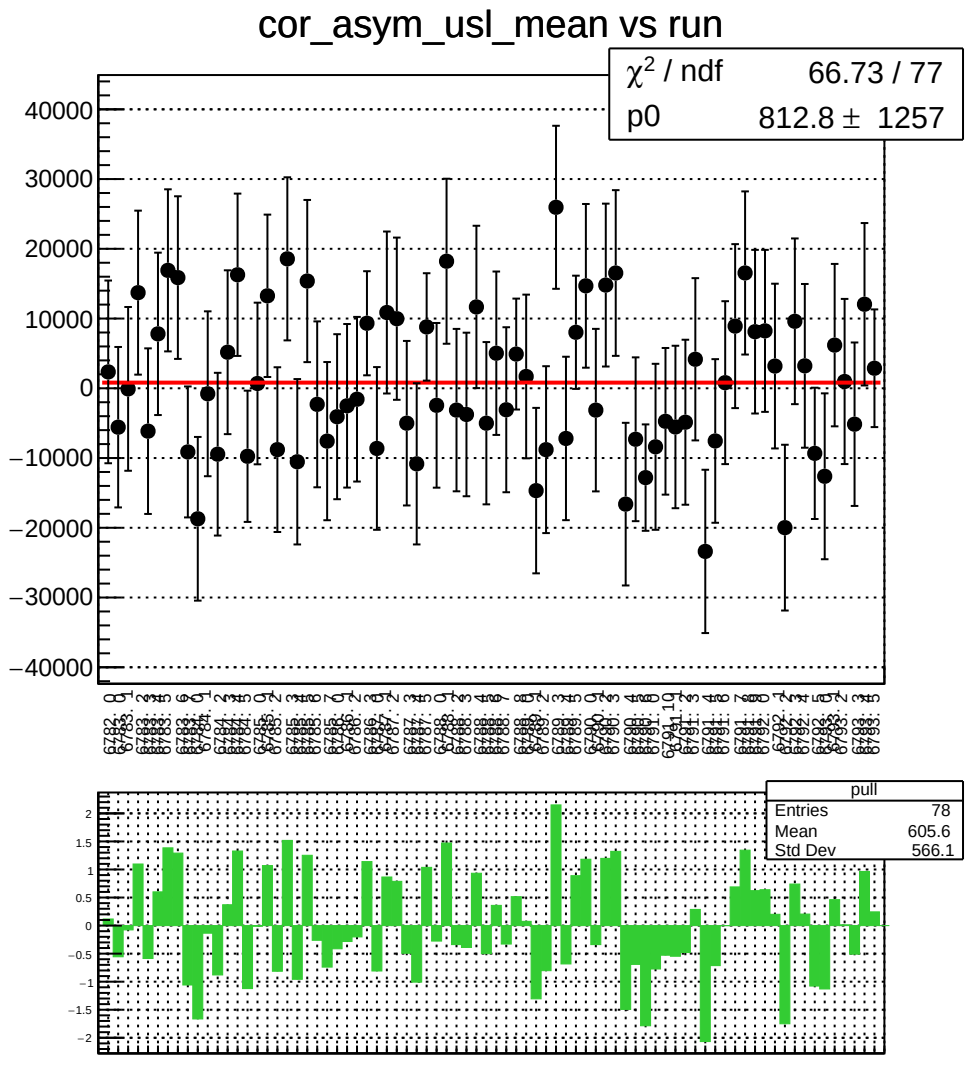

pull1D
Entries 78
Mean −0.0173
Std Dev 0.9438

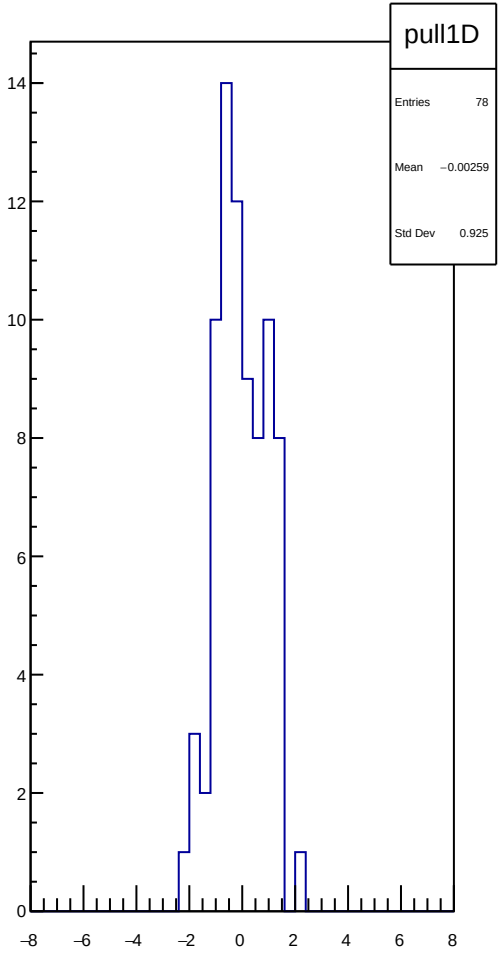

cor_asym_us_avg_rms vs run
χ^2 / ndf 117.6 / 77
p0 782.5 ± 0.625
810
800
790
780
770
760

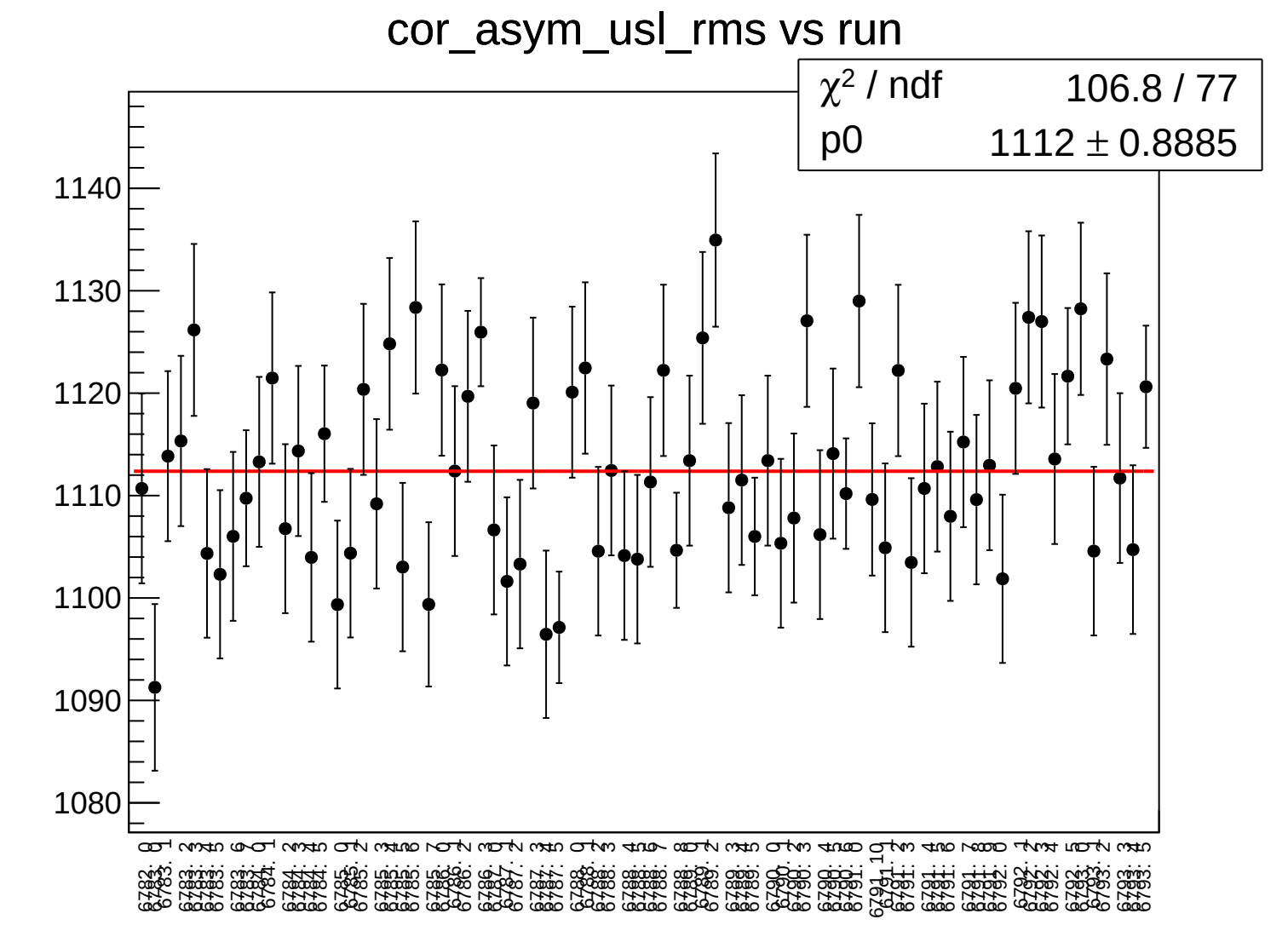

cor_asym_us_dd_mean vs run
χ² / ndf 80.25 / 77
p0 −325.2 ± 879.4
30000
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 325.5
Std Dev 284
2
1
0
−1
−2
−3

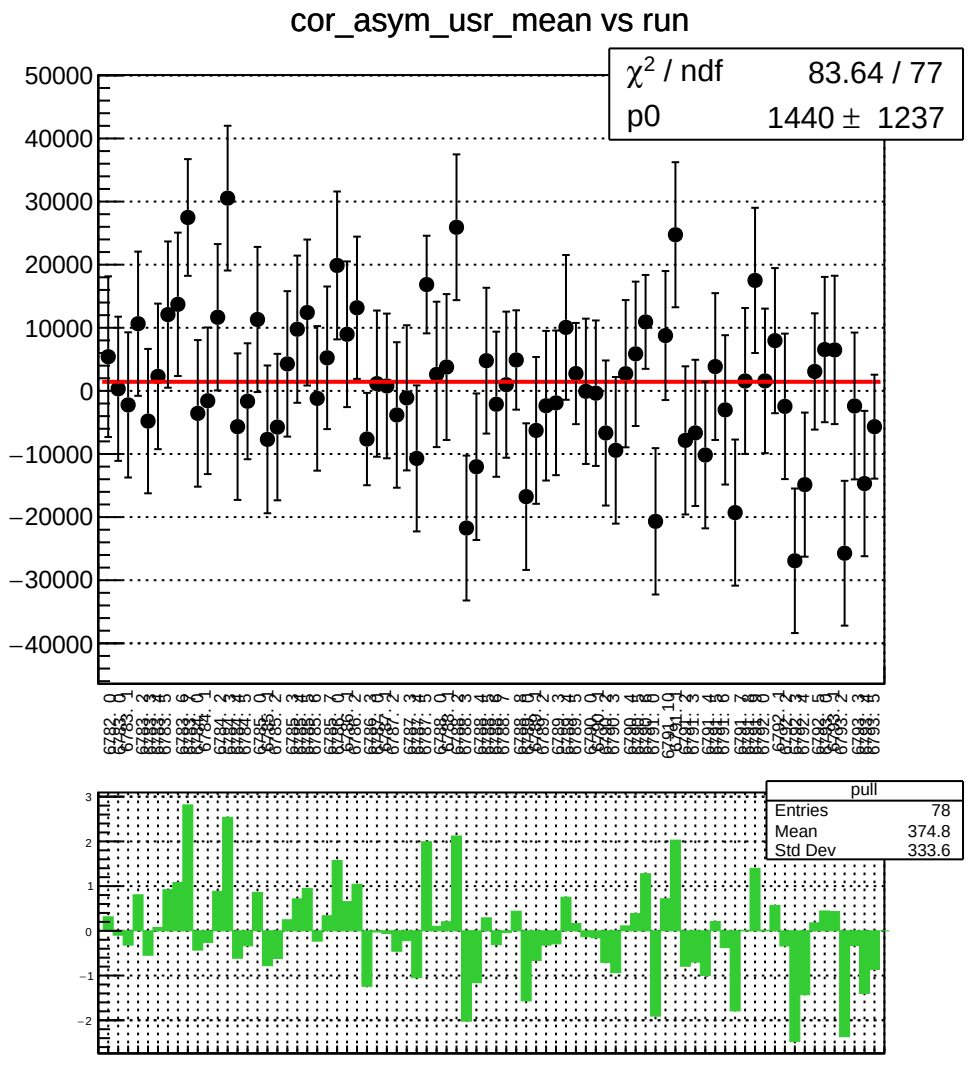

pull1D
Entries 78
Mean 0.01427
Std Dev 1.014
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

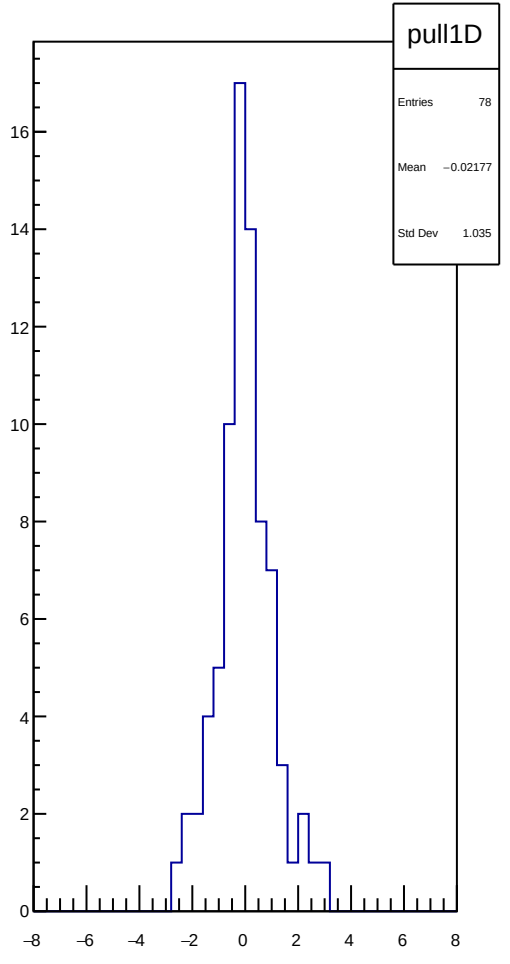

cor_asym_us_dd_rms vs run
χ² / ndf 91.37 / 77
p0 778.5 ± 0.6218
800
795
790
785
780
775
770
765
760

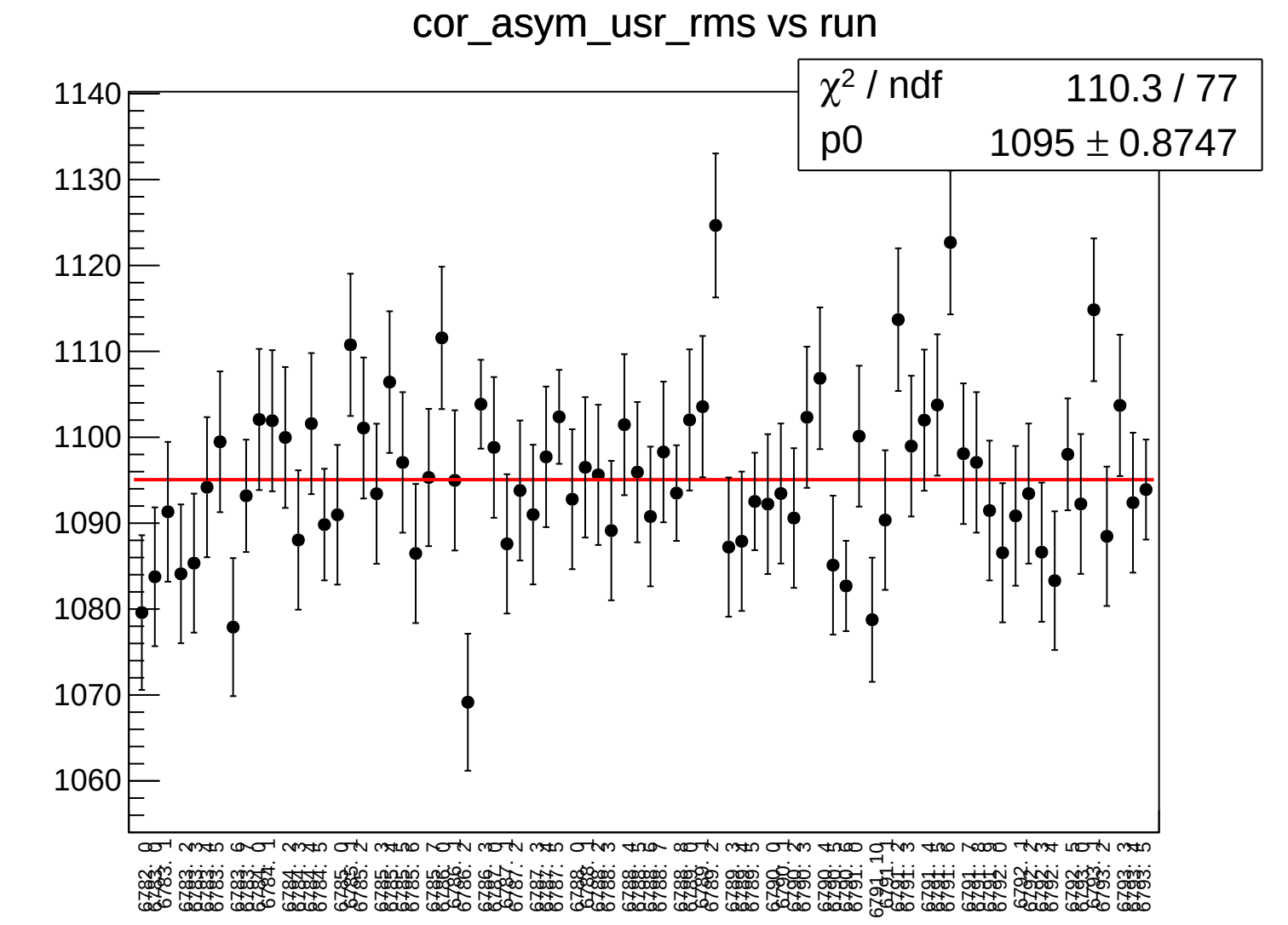

cor_asym_usl_mean vs run
χ² / ndf 66.73 / 77
p0 812.8 ± 1257
pull
Entries 78
Mean 605.6
Std Dev 566.1

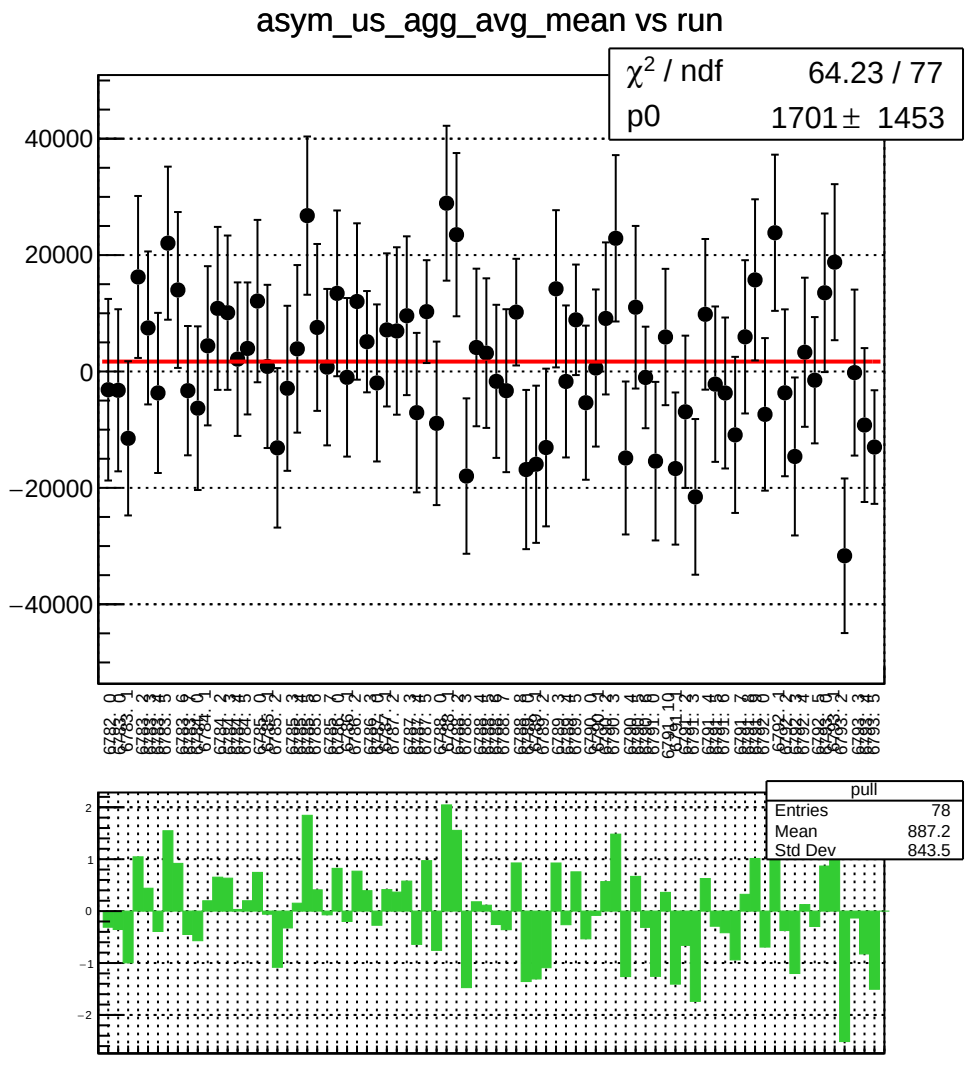

pull1D
Entries 78
Mean −0.00259
Std Dev 0.925

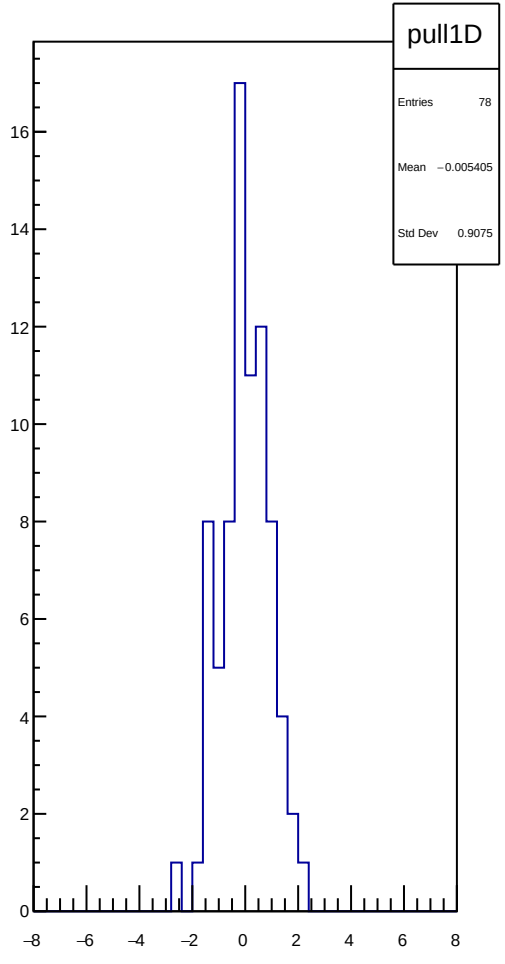

cor_asym_usl_rms vs run
χ² / ndf 106.8 / 77
p0 1112 ± 0.8885
1140
1130
1120
1110
1100
1090
1080

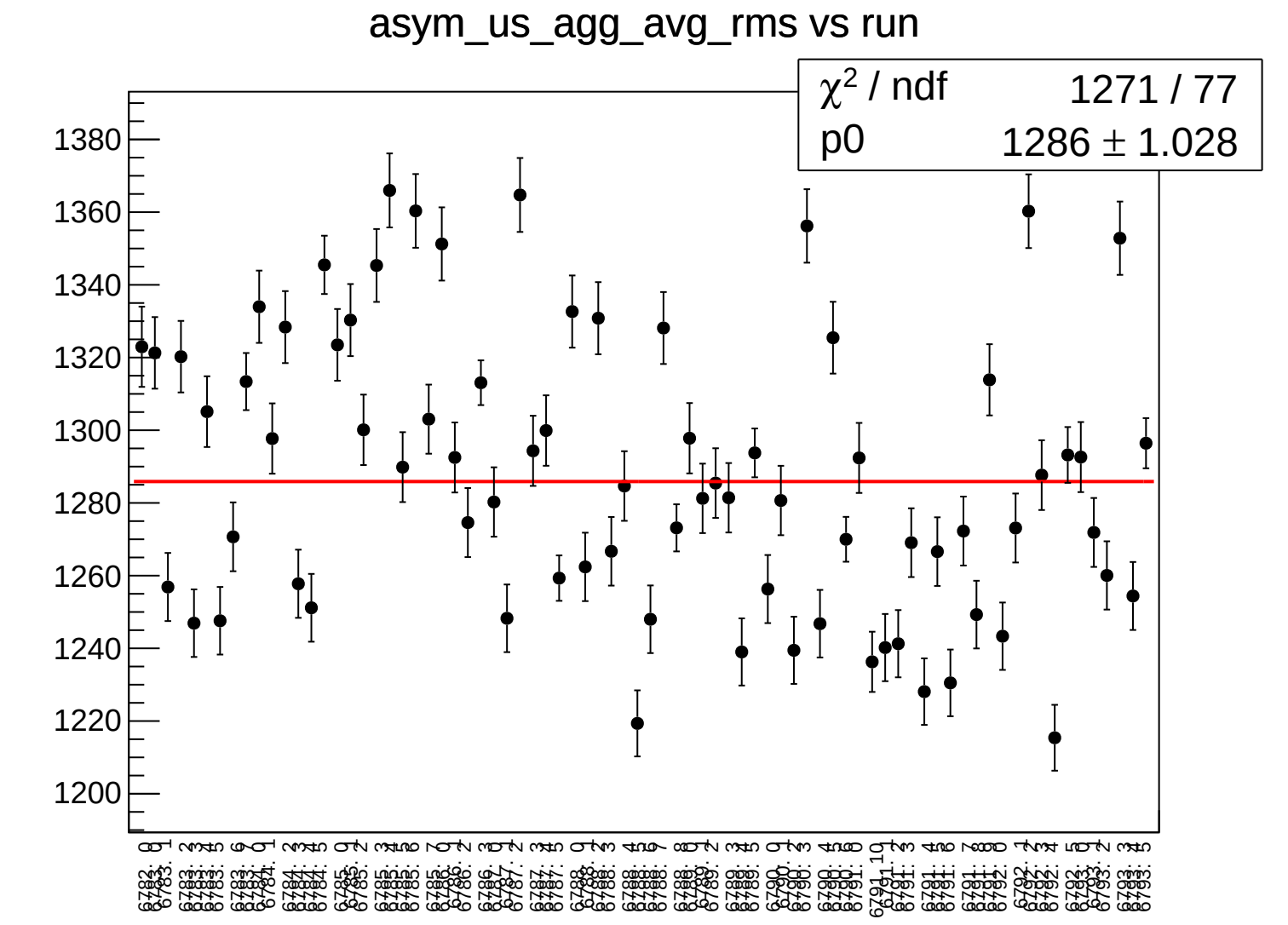

cor_asym_usr_mean vs run
χ² / ndf 83.64 / 77
p0 1440 ± 1237
pull
Entries 78
Mean 374.8
Std Dev 333.6

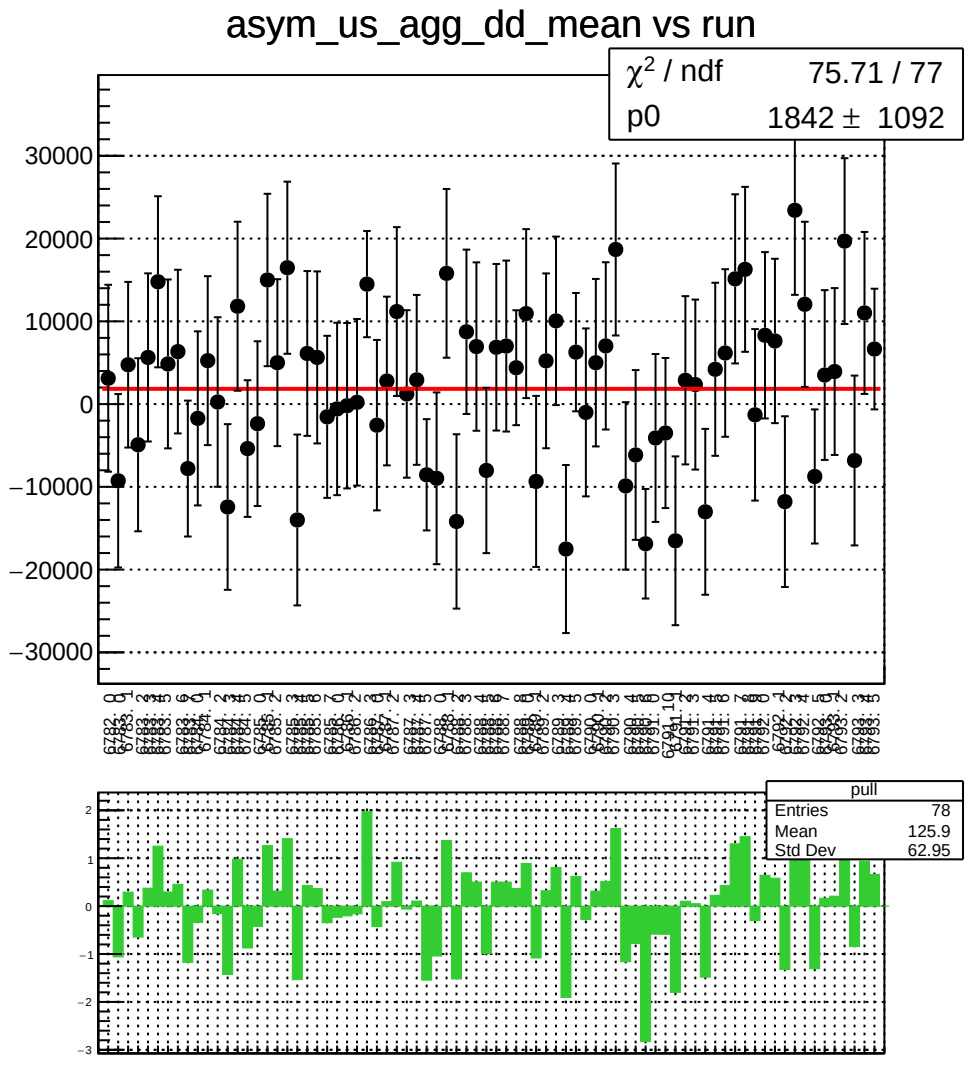

pull1D
Entries 78
Mean −0.02177
Std Dev 1.035

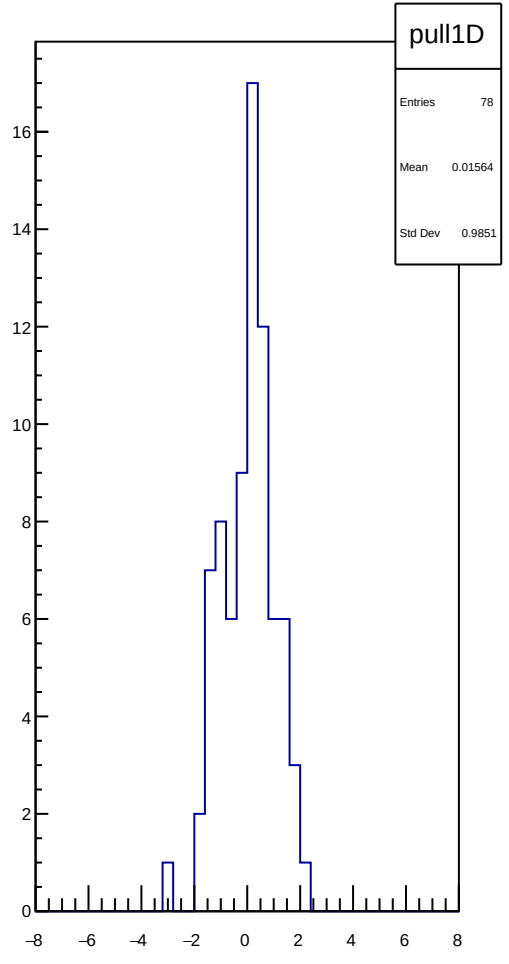

cor_asym_usr_rms vs run
χ² / ndf 110.3 / 77
p0 1095 ± 0.8747
1140
1130
1120
1110
1100
1090
1080
1070
1060

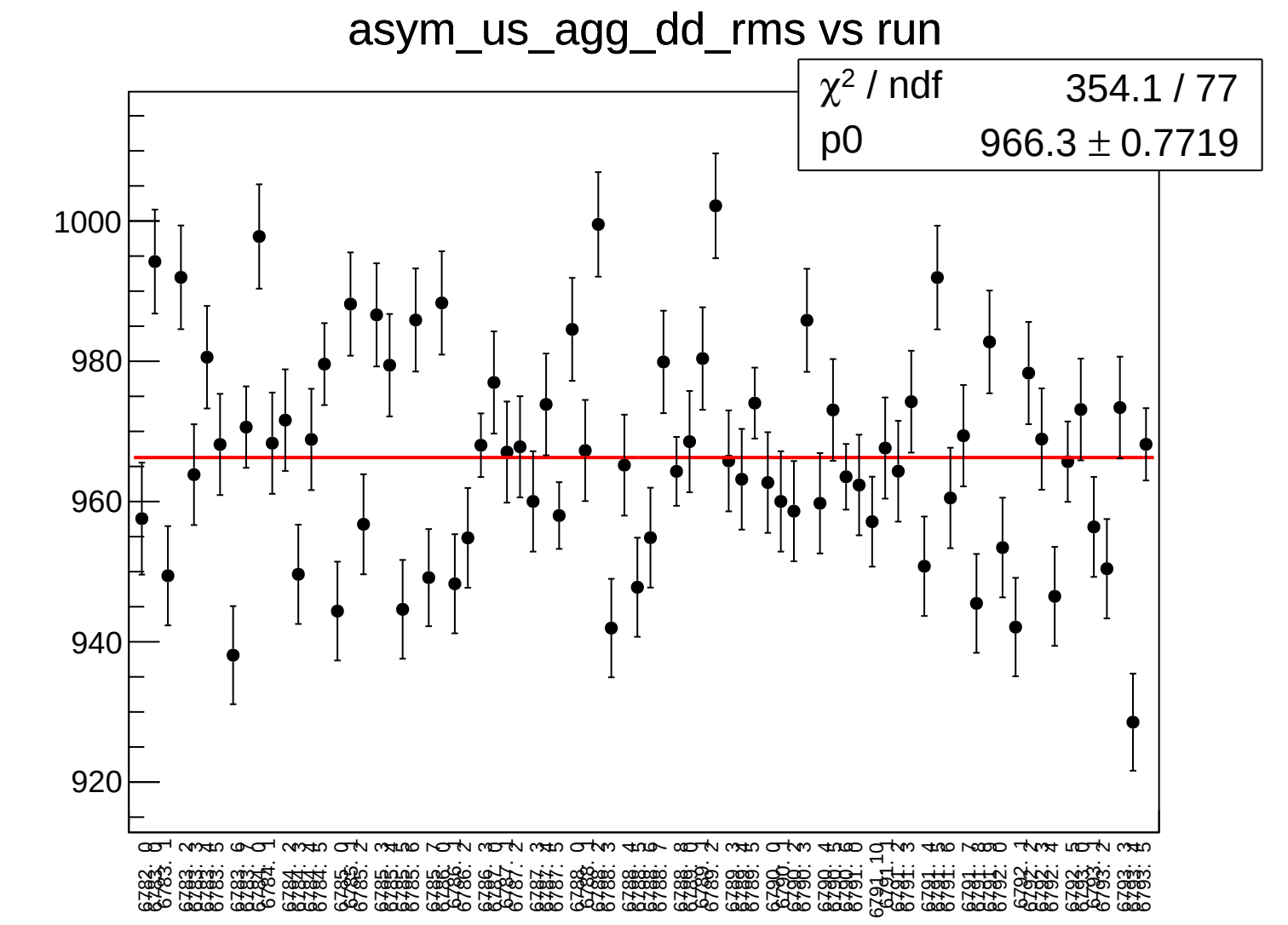

asym_us_agg_avg_mean vs run
χ² / ndf 64.23 / 77
p0 1701 ± 1453
40000
20000
0
−20000
−40000
pull
Entries 78
Mean 887.2
Std Dev 843.5
2
1
0
−1
−2

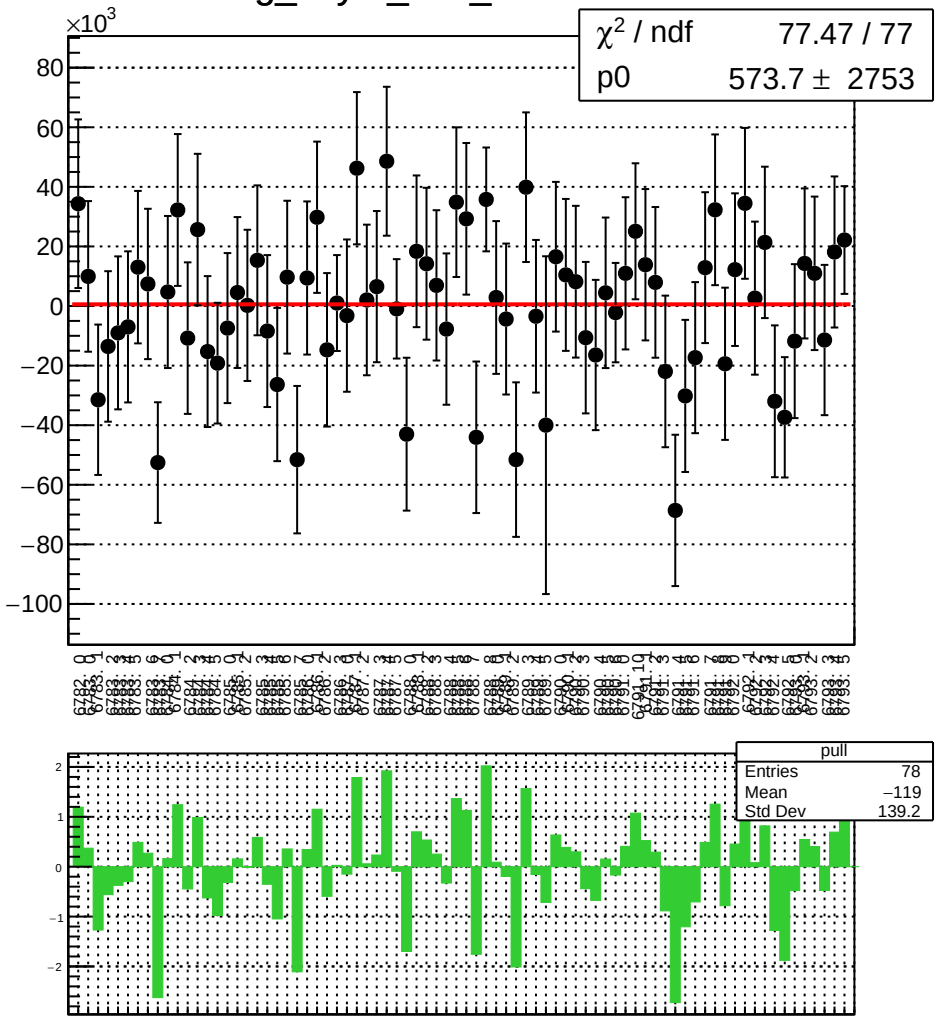

pull1D
Entries 78
Mean −0.005405
Std Dev 0.9075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

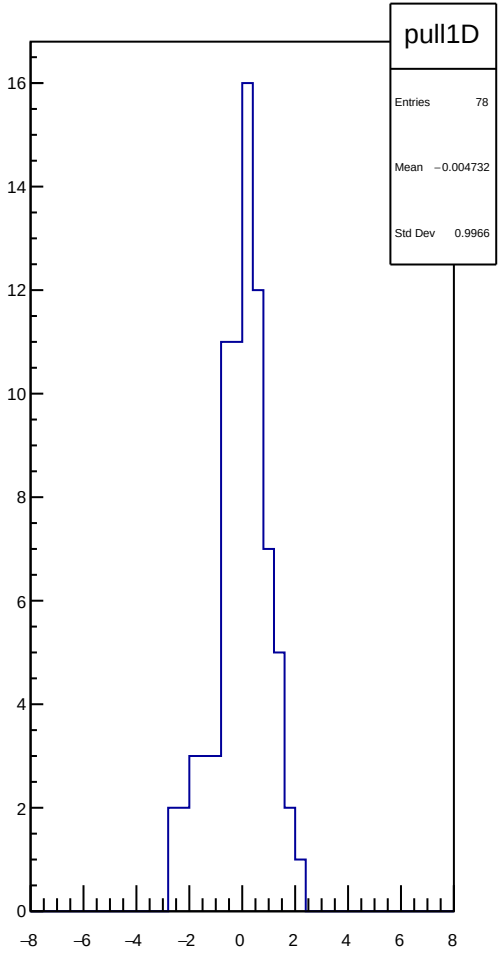

asym_us_agg_avg_rms vs run
χ² / ndf 1271 / 77
p0 1286 ± 1.028
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

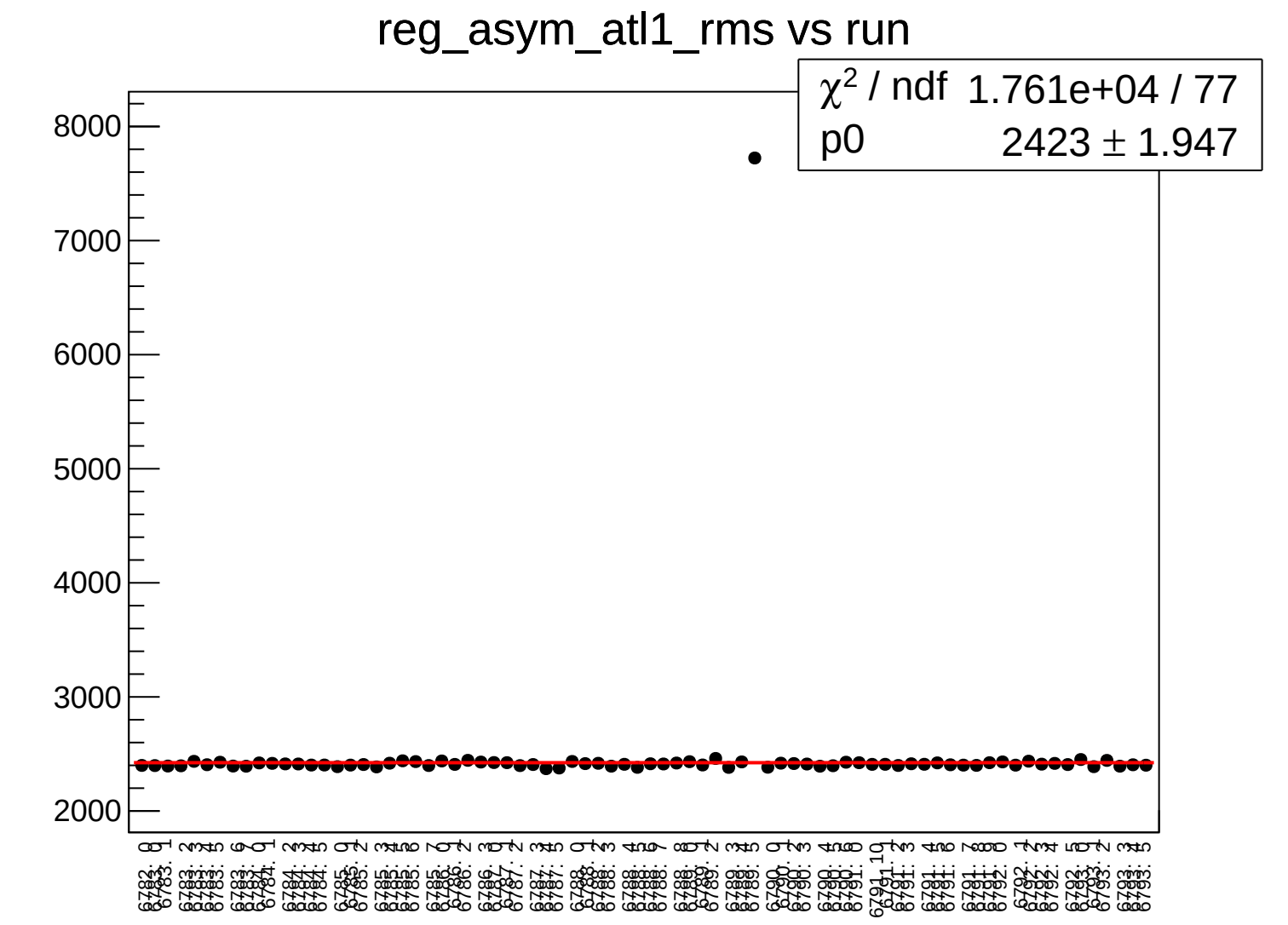

asym_us_agg_dd_mean vs run
χ² / ndf 75.71 / 77
p0 1842 ± 1092
pull
Entries 78
Mean 125.9
Std Dev 62.95

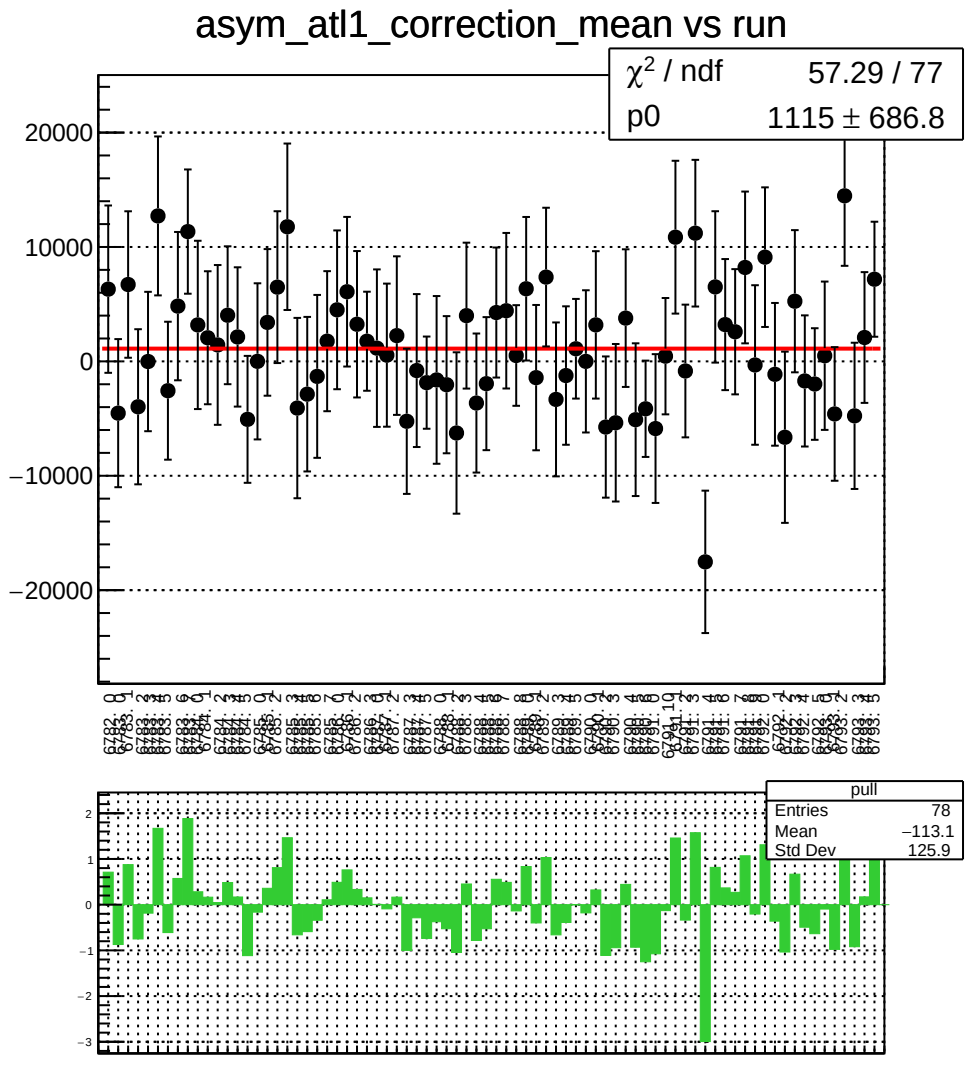

pull1D
Entries 78
Mean 0.01564
Std Dev 0.9851

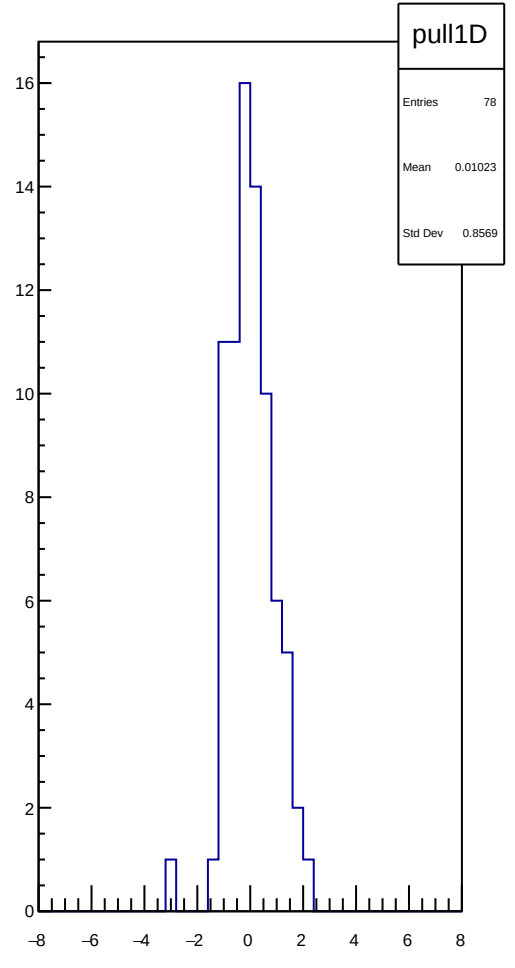

asym_us_agg_dd_rms vs run
χ² / ndf 354.1 / 77
p0 966.3 ± 0.7719
1000
980
960
940
920

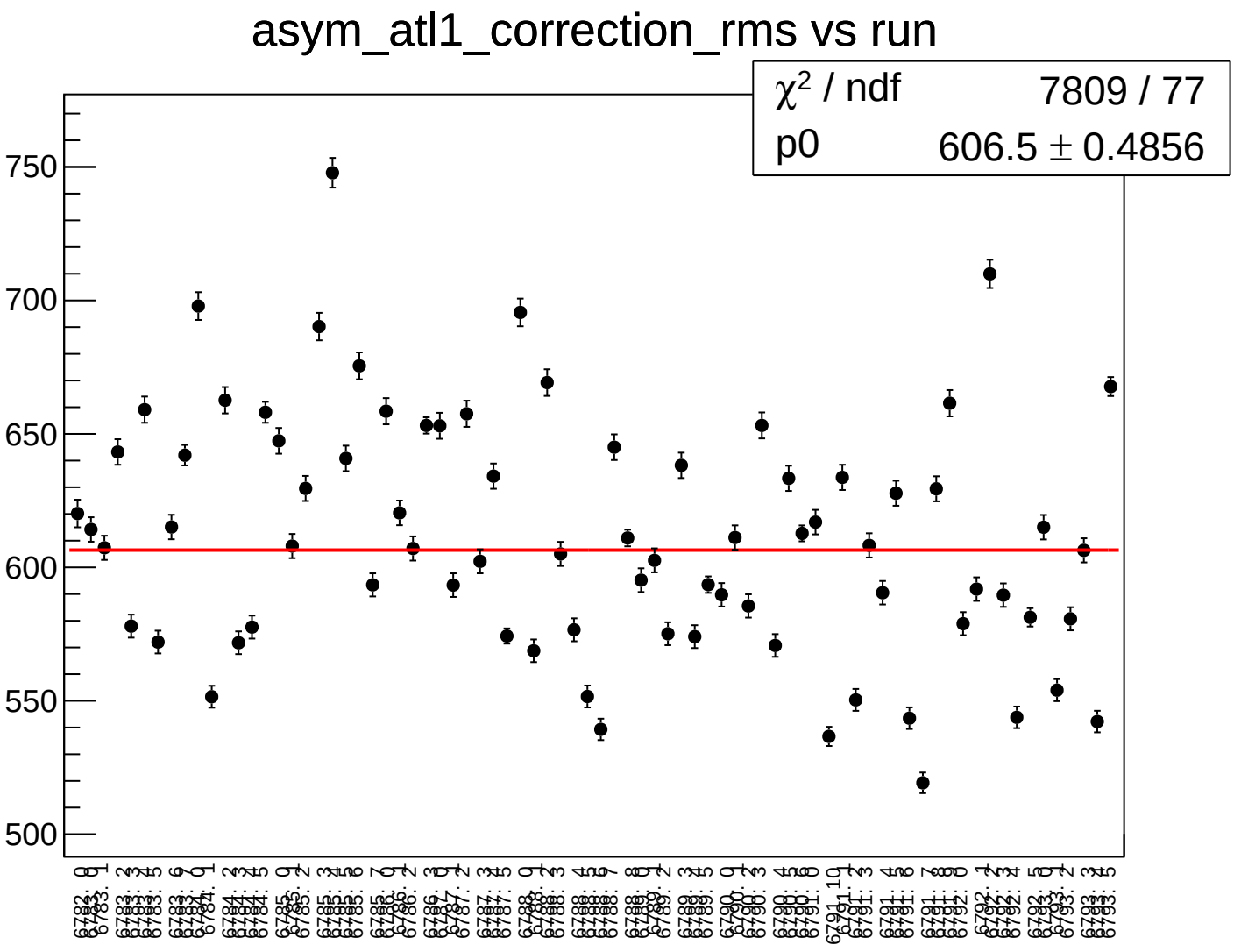

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 77.47 / 77
p0 573.7 ± 2753
pull
Entries 78
Mean −119
Std Dev 139.2

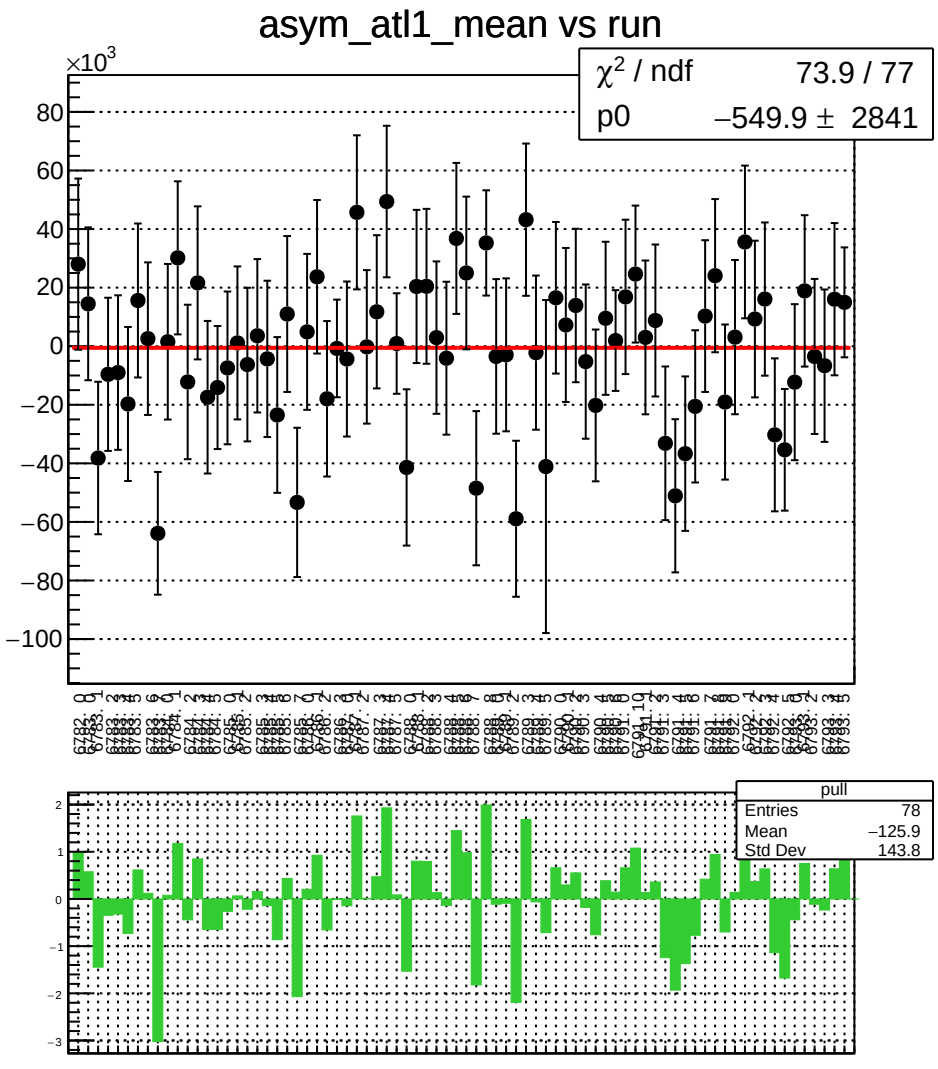

pull1D
Entries 78
Mean −0.004732
Std Dev 0.9966

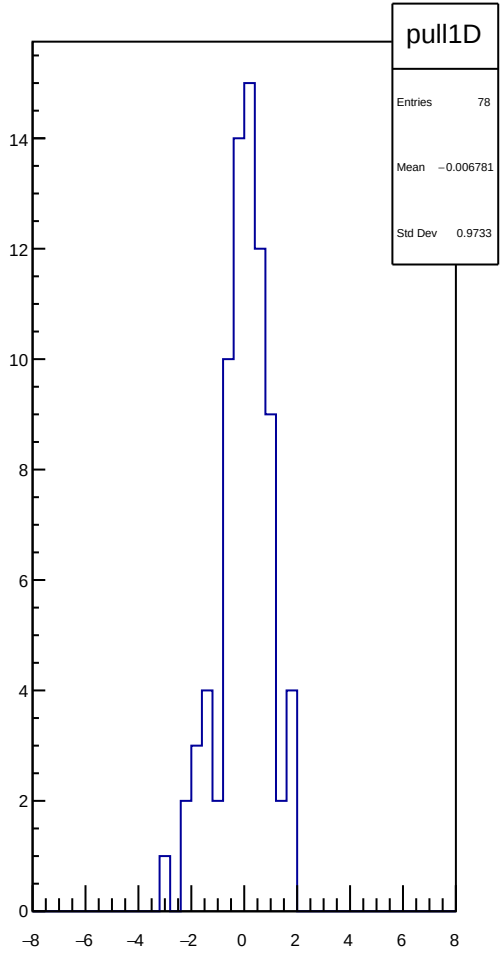

reg_asym_atl1_rms vs run
χ^2 / ndf 1.761e+04 / 77
p0 2423 ± 1.947
8000
7000
6000
5000
4000
3000
2000

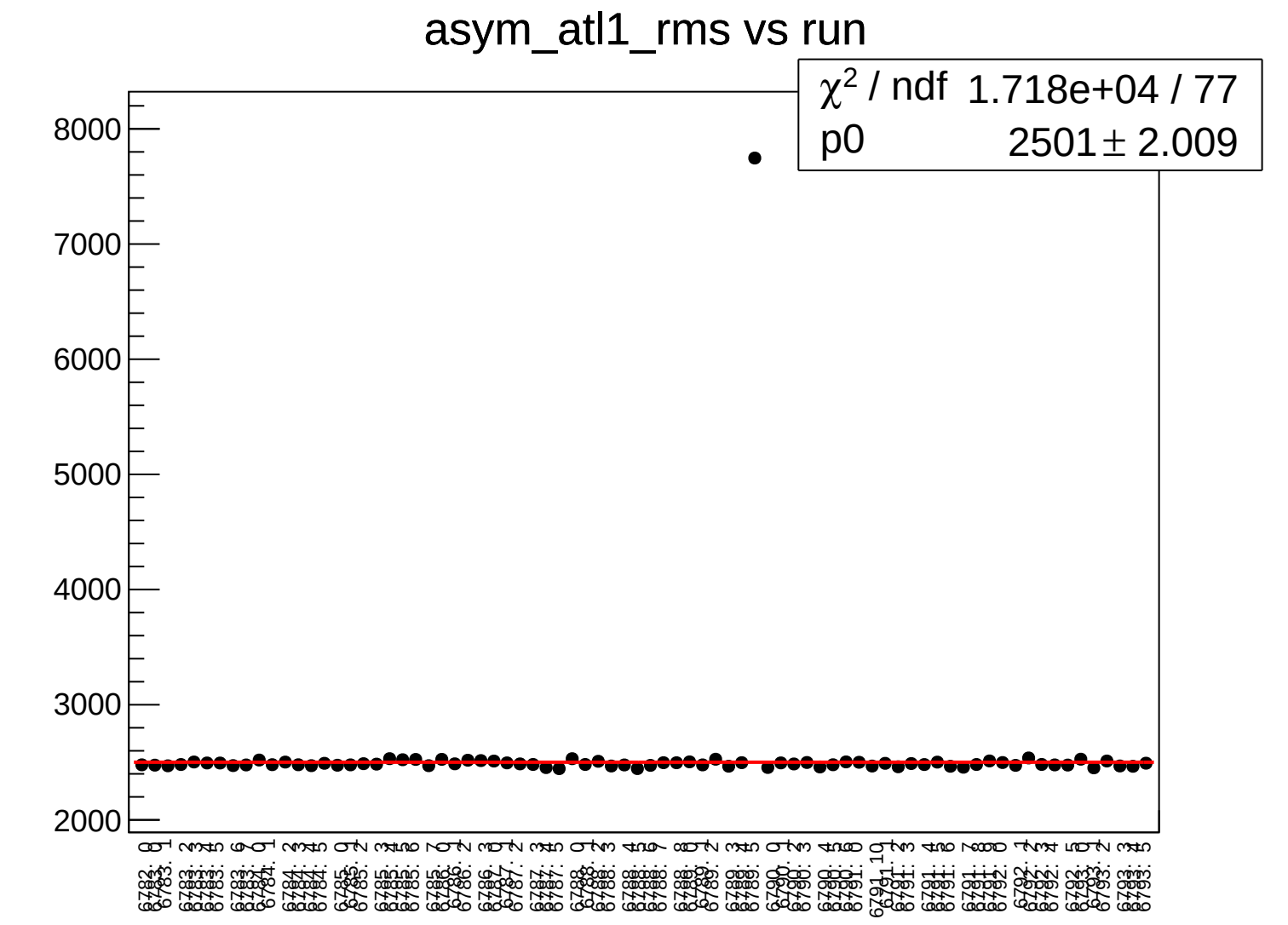

asym_atl1_correction_mean vs run
χ² / ndf 57.29 / 77
p0 1115 ± 686.8
20000
10000
0
−10000
−20000
pull
Entries 78
Mean −113.1
Std Dev 125.9
2
1
0
−1
−2
−3

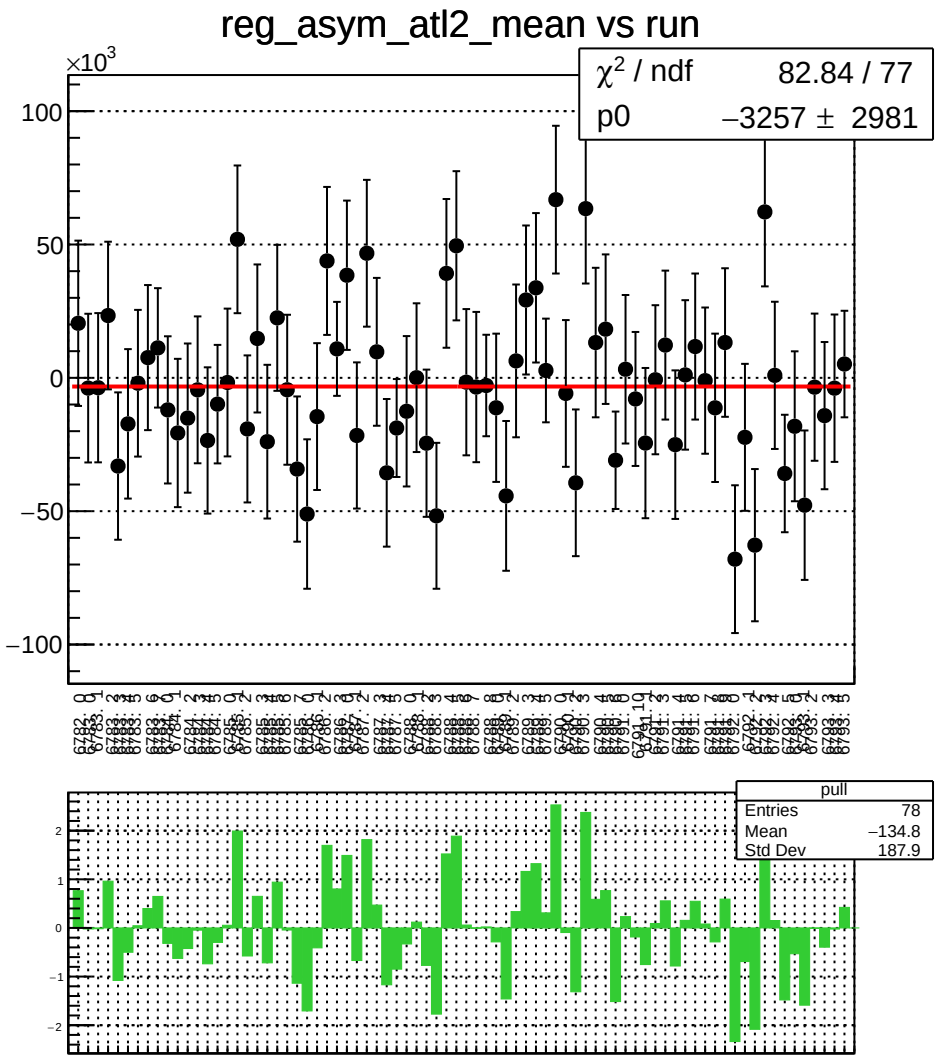

pull1D
Entries 78
Mean 0.01023
Std Dev 0.8569
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

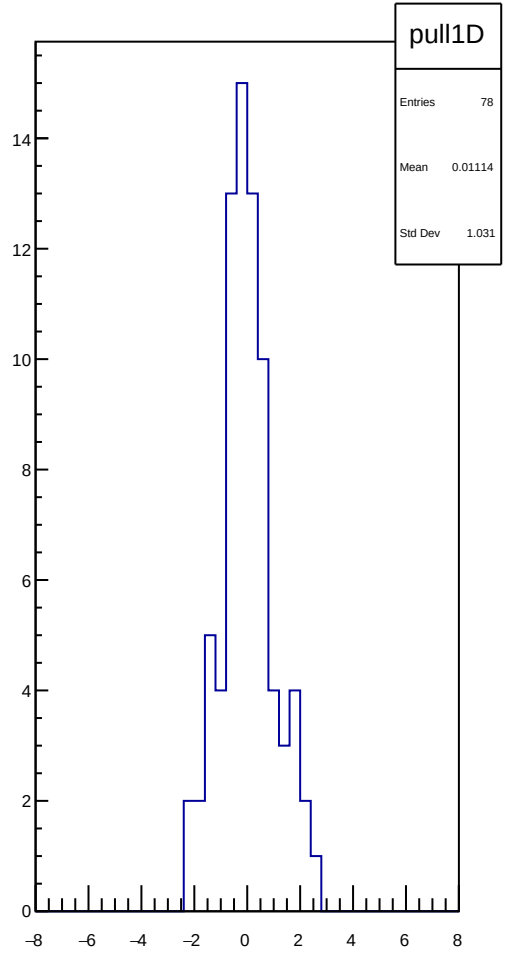

asym_atl1_correction_rms vs run
χ² / ndf 7809 / 77
p0 606.5 ± 0.4856
750
700
650
600
550
500

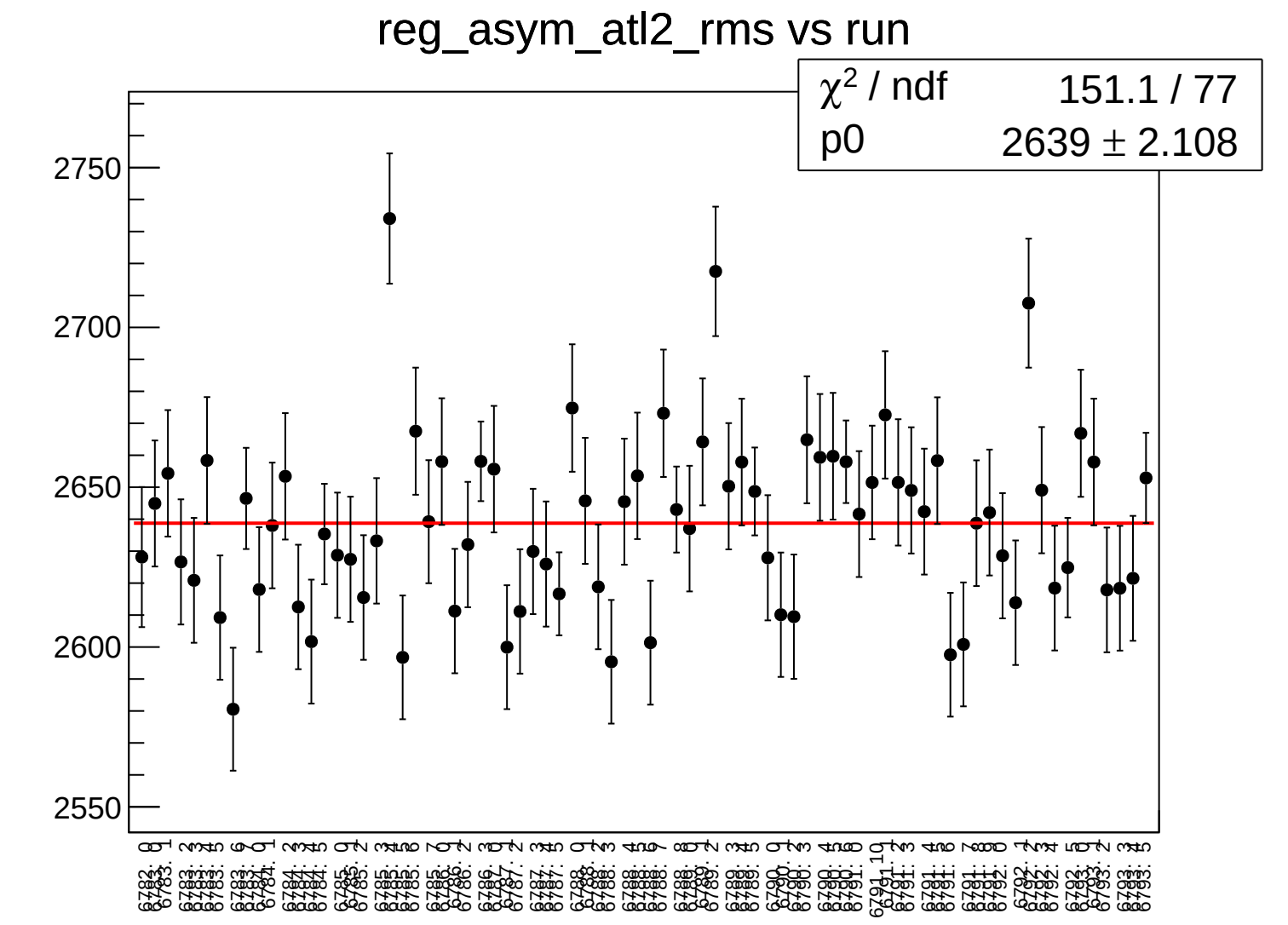

asym_atl1_mean vs run
×10^3
χ² / ndf 73.9 / 77
p0 −549.9 ± 2841
pull
Entries 78
Mean −125.9
Std Dev 143.8

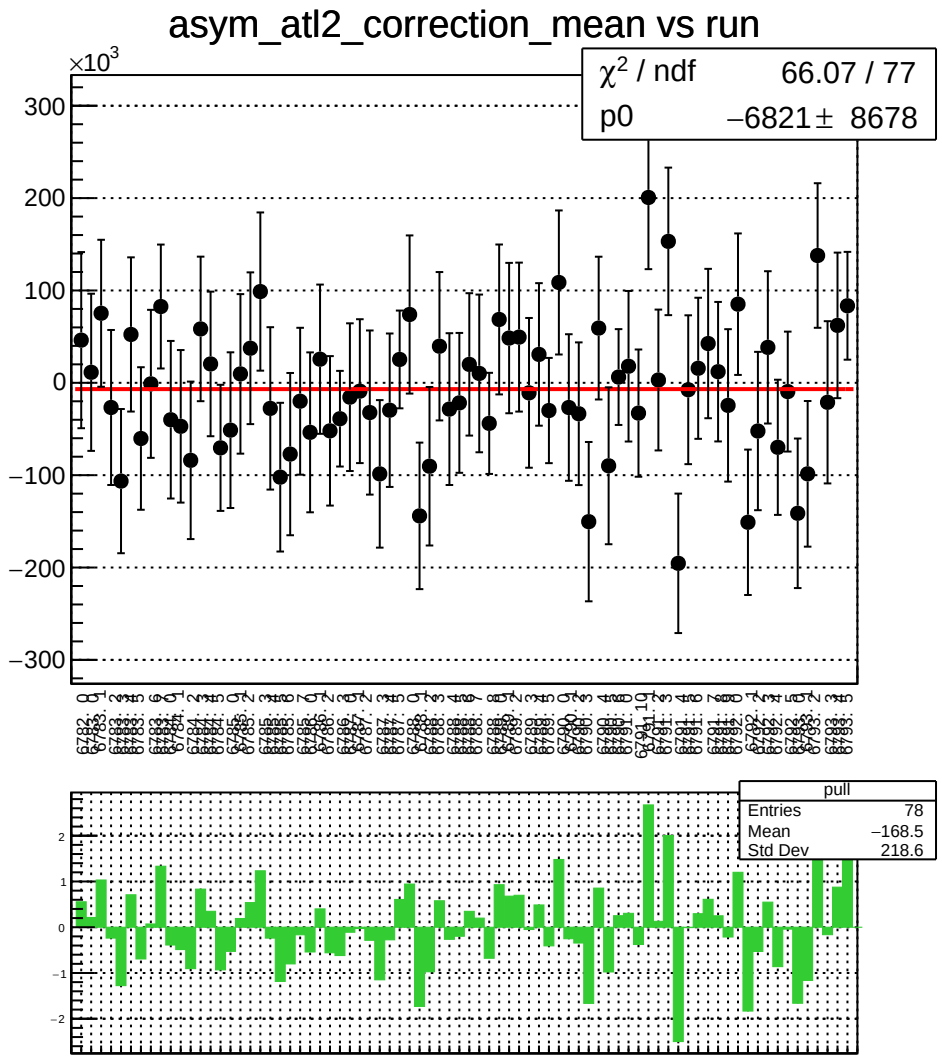

pull1D
Entries 78
Mean −0.006781
Std Dev 0.9733

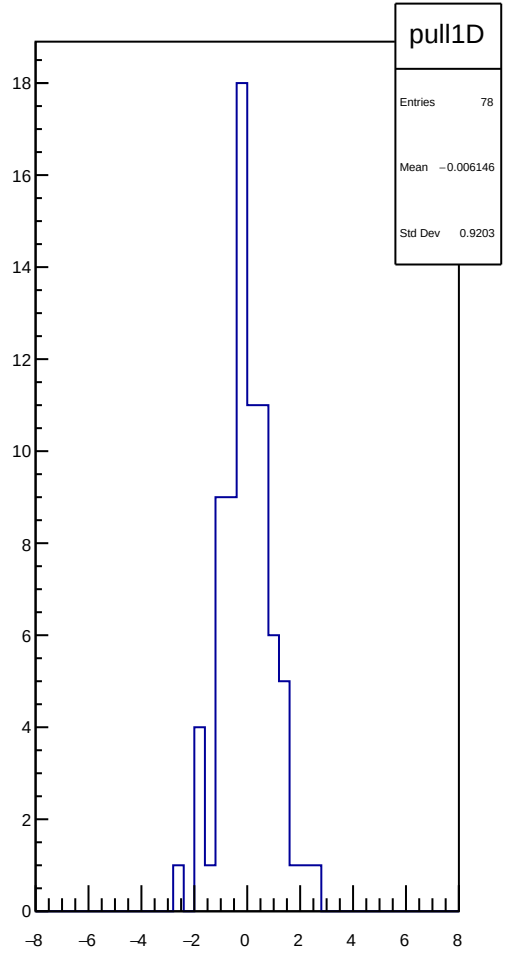

asym_atl1_rms vs run
χ² / ndf 1.718e+04 / 77
p0 2501 ± 2.009
8000
7000
6000
5000
4000
3000
2000

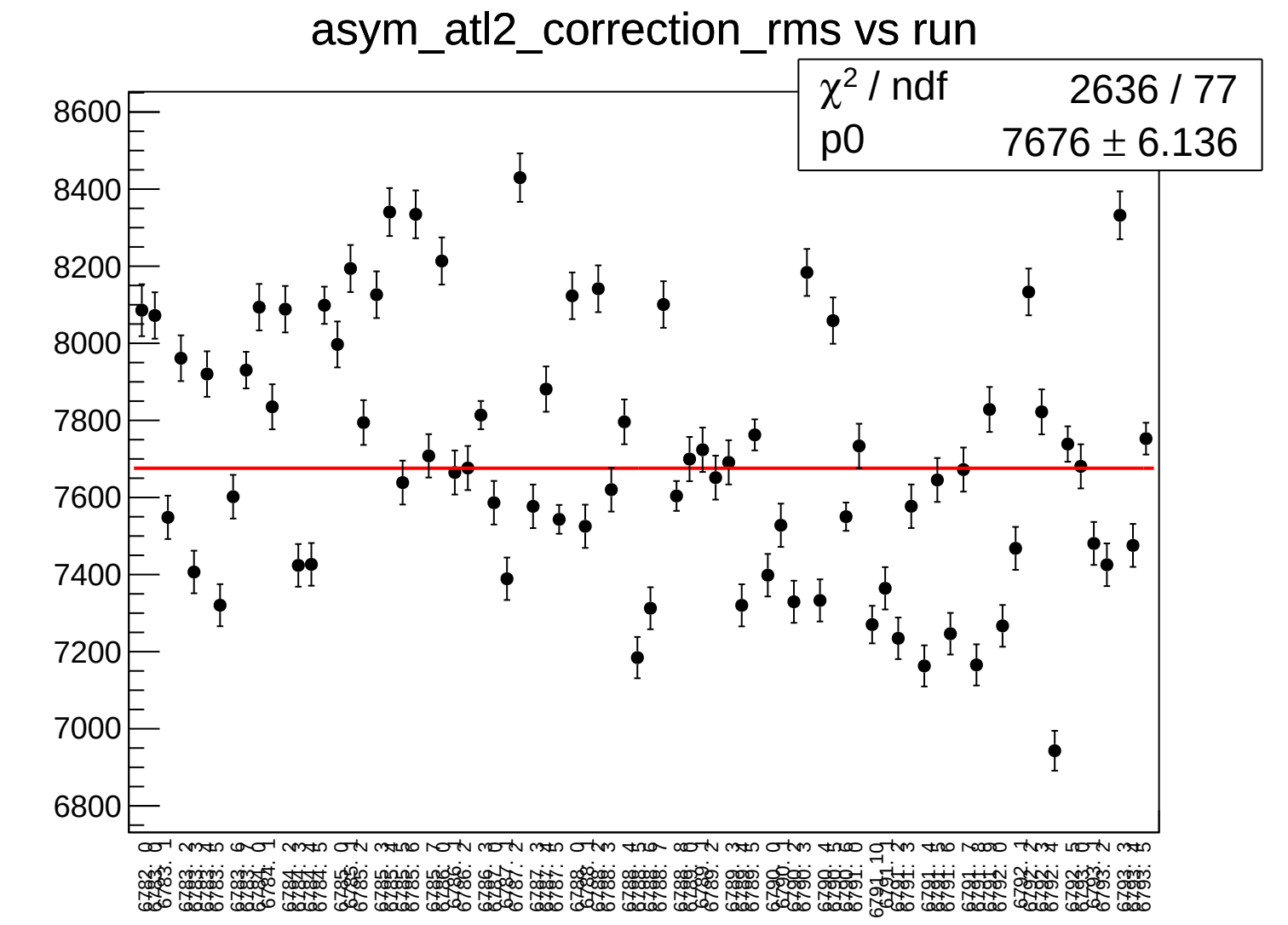

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 82.84 / 77
p0 −3257 ± 2981
100
50
0
−50
−100
pull
Entries 78
Mean −134.8
Std Dev 187.9
2
1
0
−1
−2

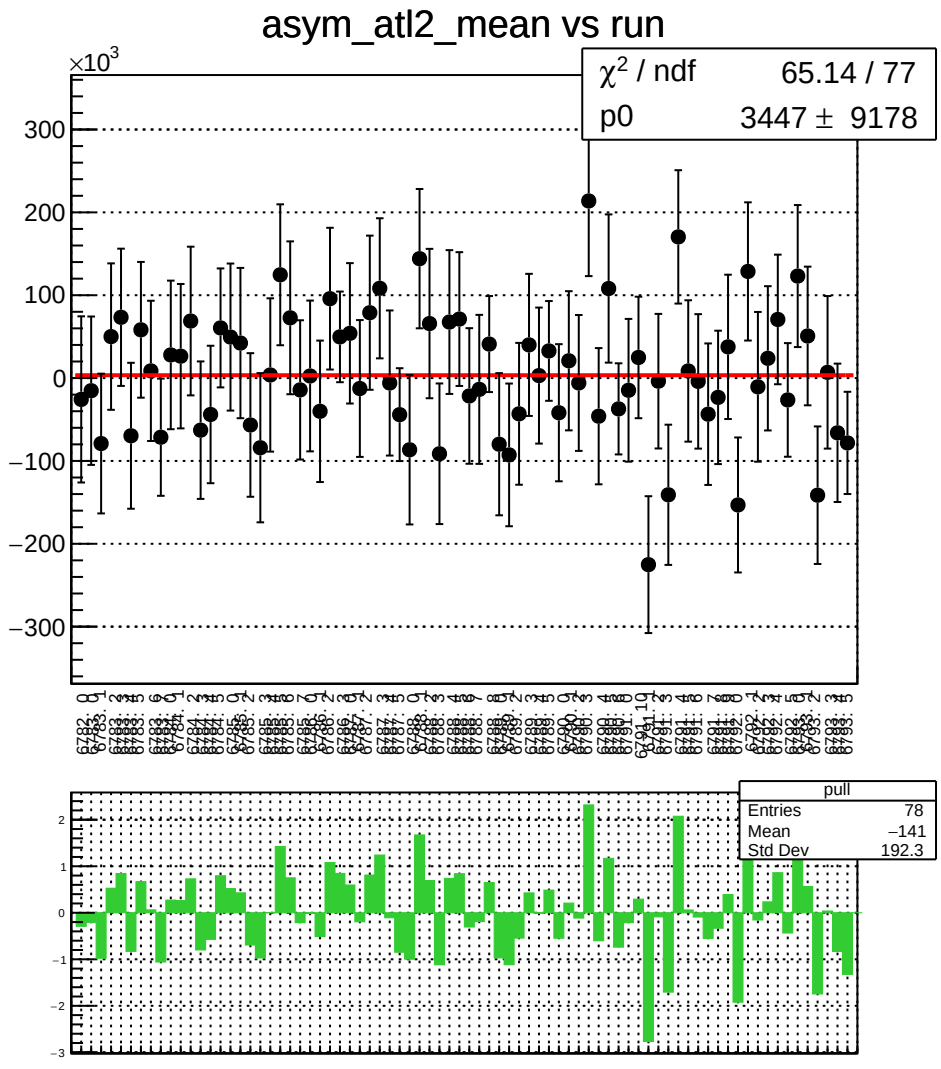

pull1D
Entries 78
Mean 0.01114
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

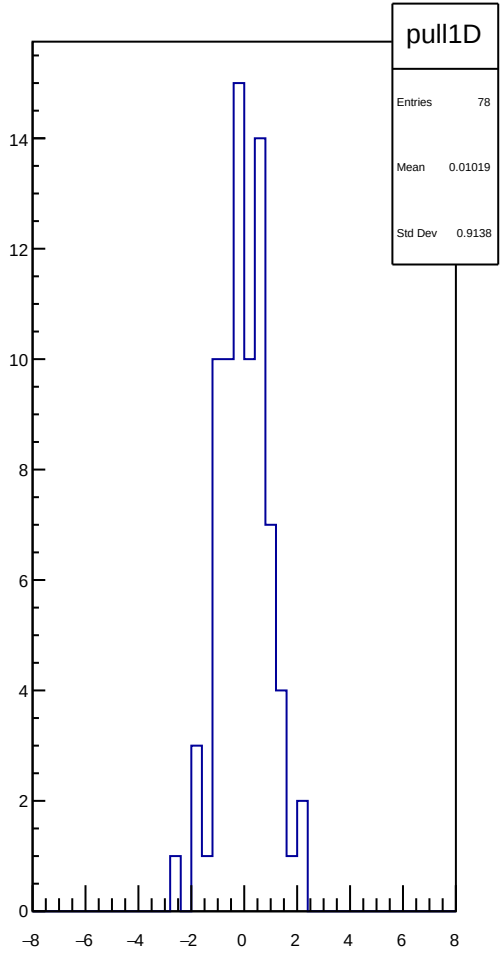

reg_asym_atl2_rms vs run
χ² / ndf 151.1 / 77
p0 2639 ± 2.108
2750
2700
2650
2600
2550

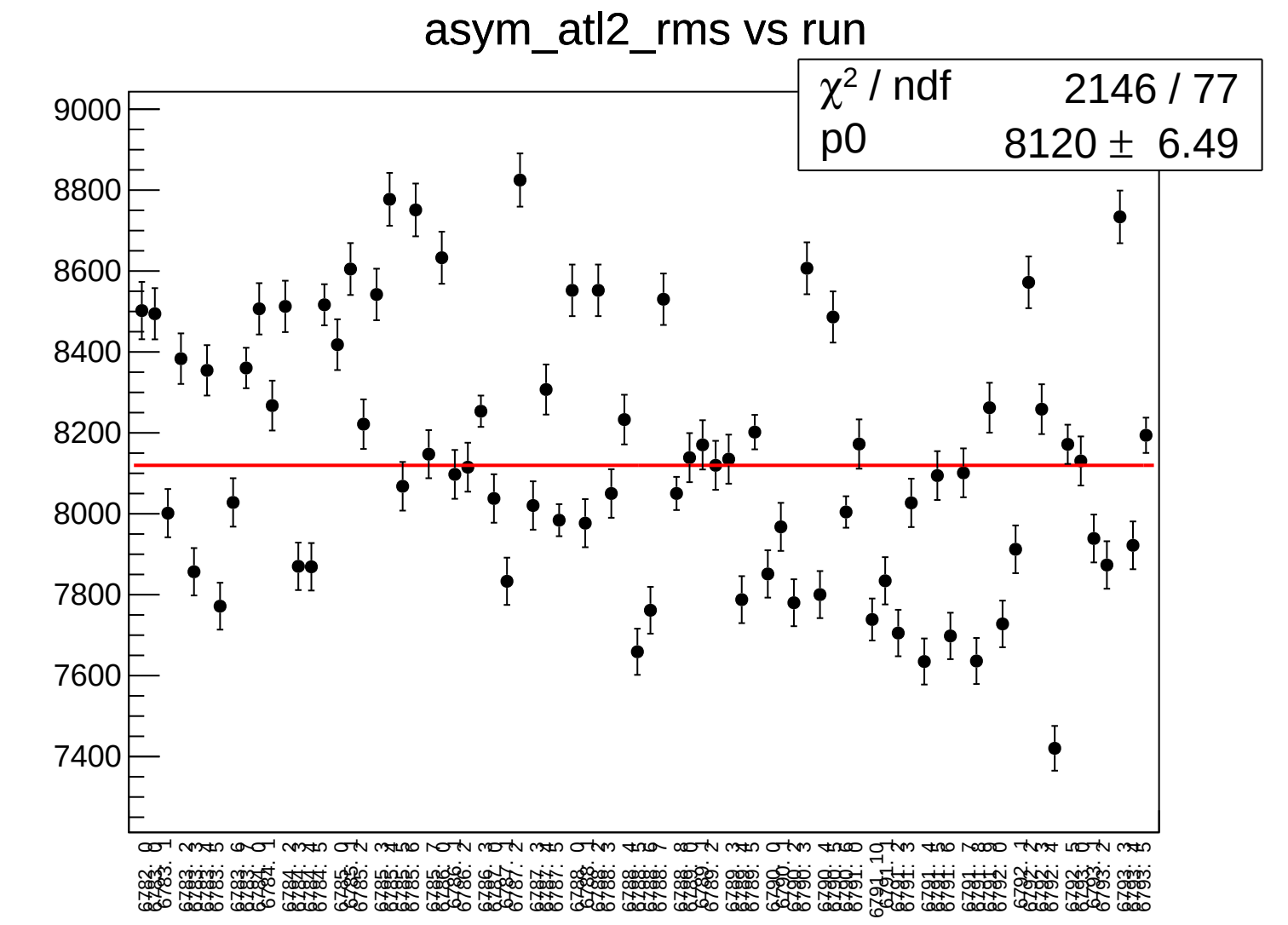

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 66.07 / 77
p0 −6821 ± 8678
pull
Entries 78
Mean −168.5
Std Dev 218.6

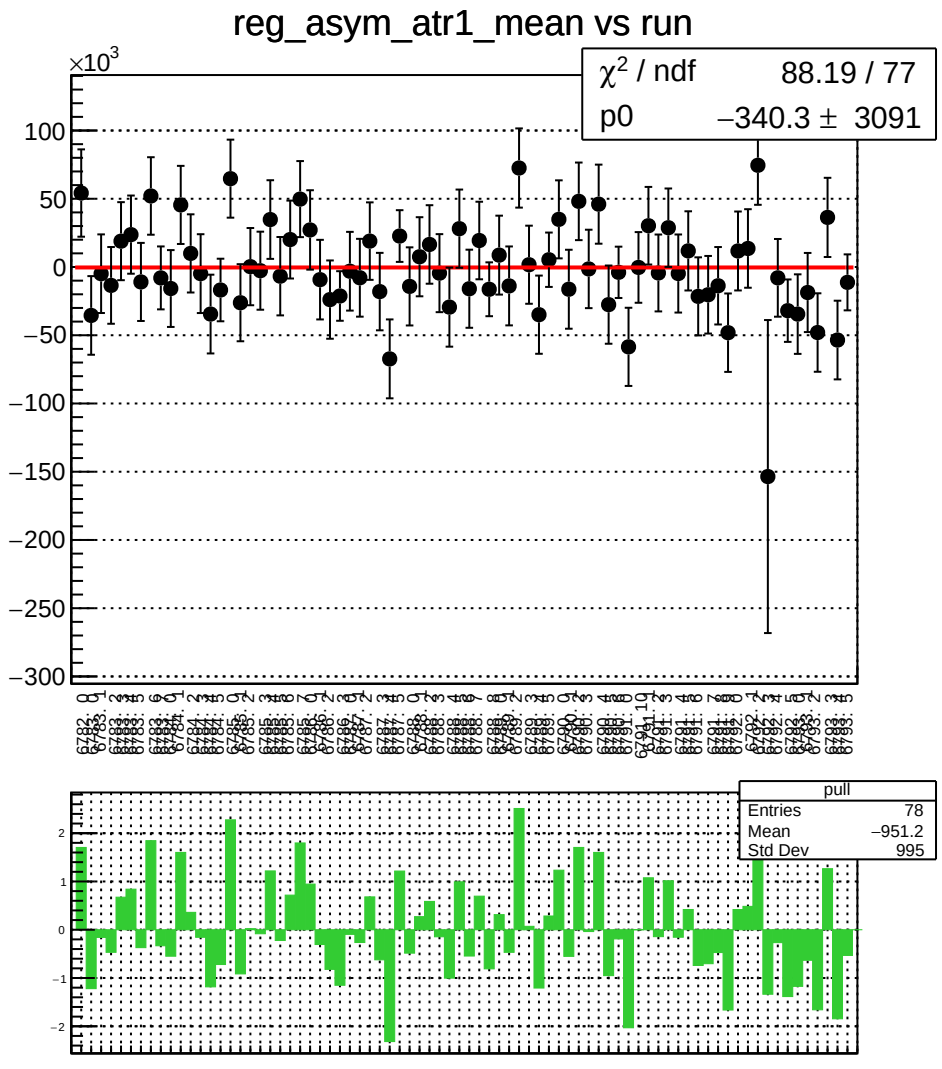

pull1D
Entries 78
Mean −0.006146
Std Dev 0.9203

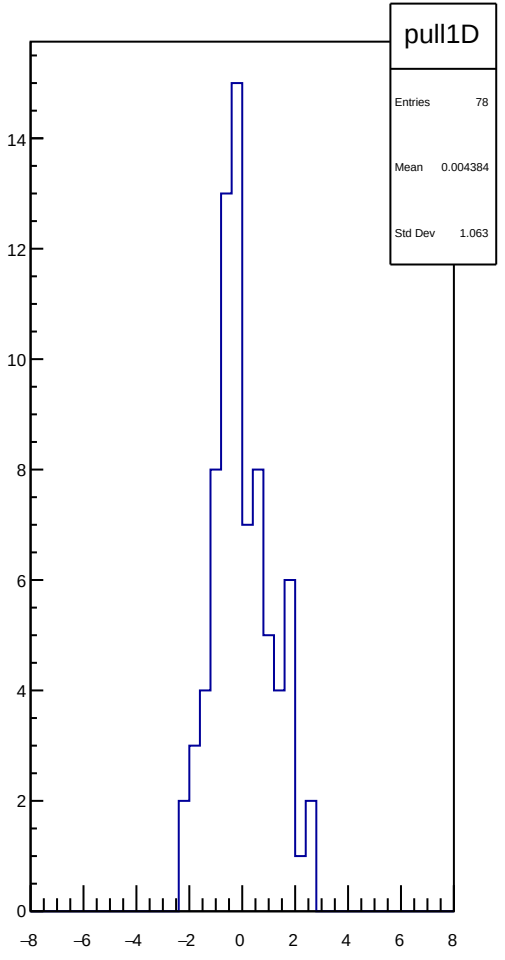

asym_atl2_correction_rms vs run
χ² / ndf 2636 / 77
p0 7676 ± 6.136
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

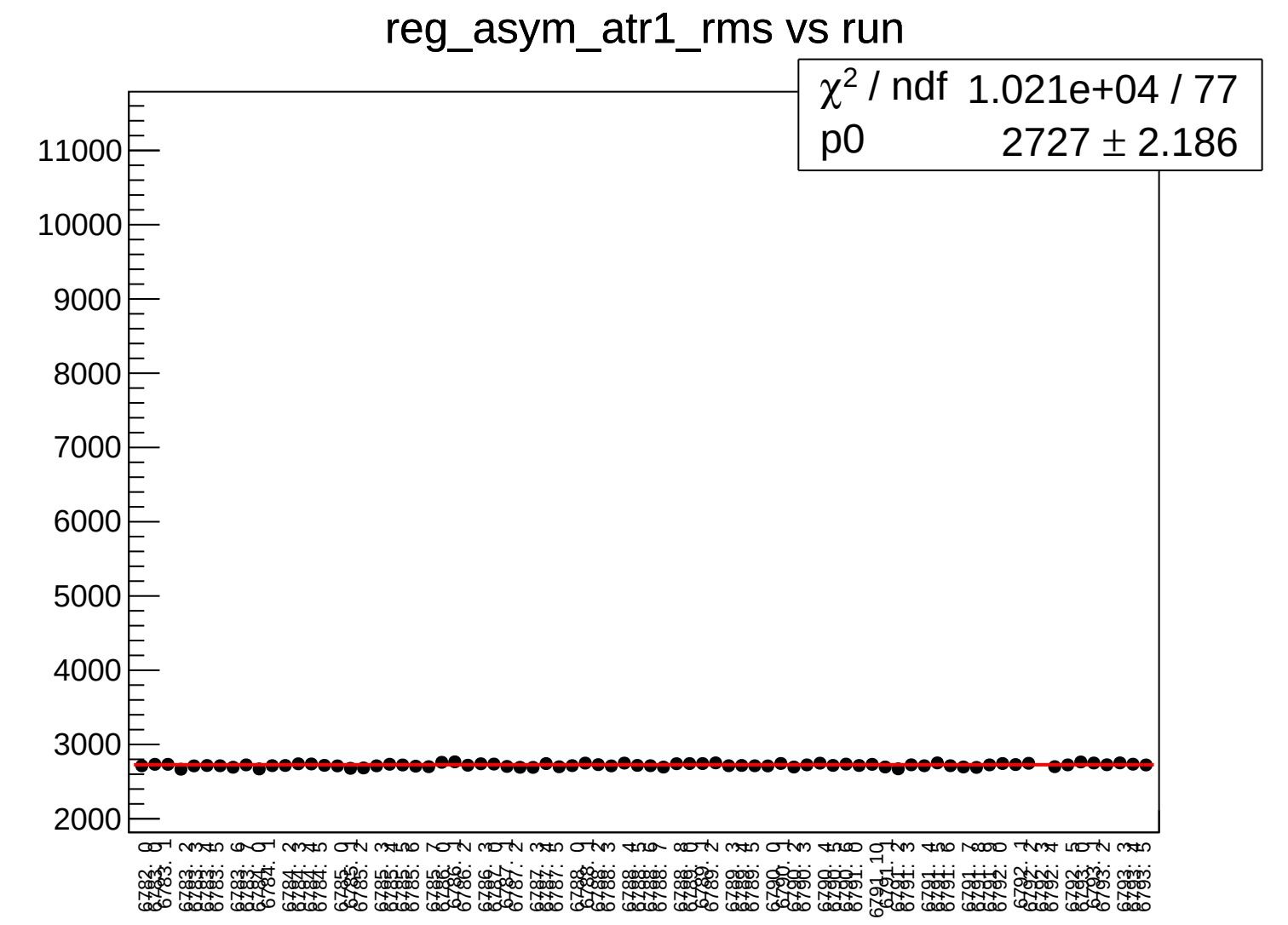

asym_atl2_mean vs run
×10^3
χ^2 / ndf 65.14 / 77
p0 3447 ± 9178
pull
Entries 78
Mean −141
Std Dev 192.3

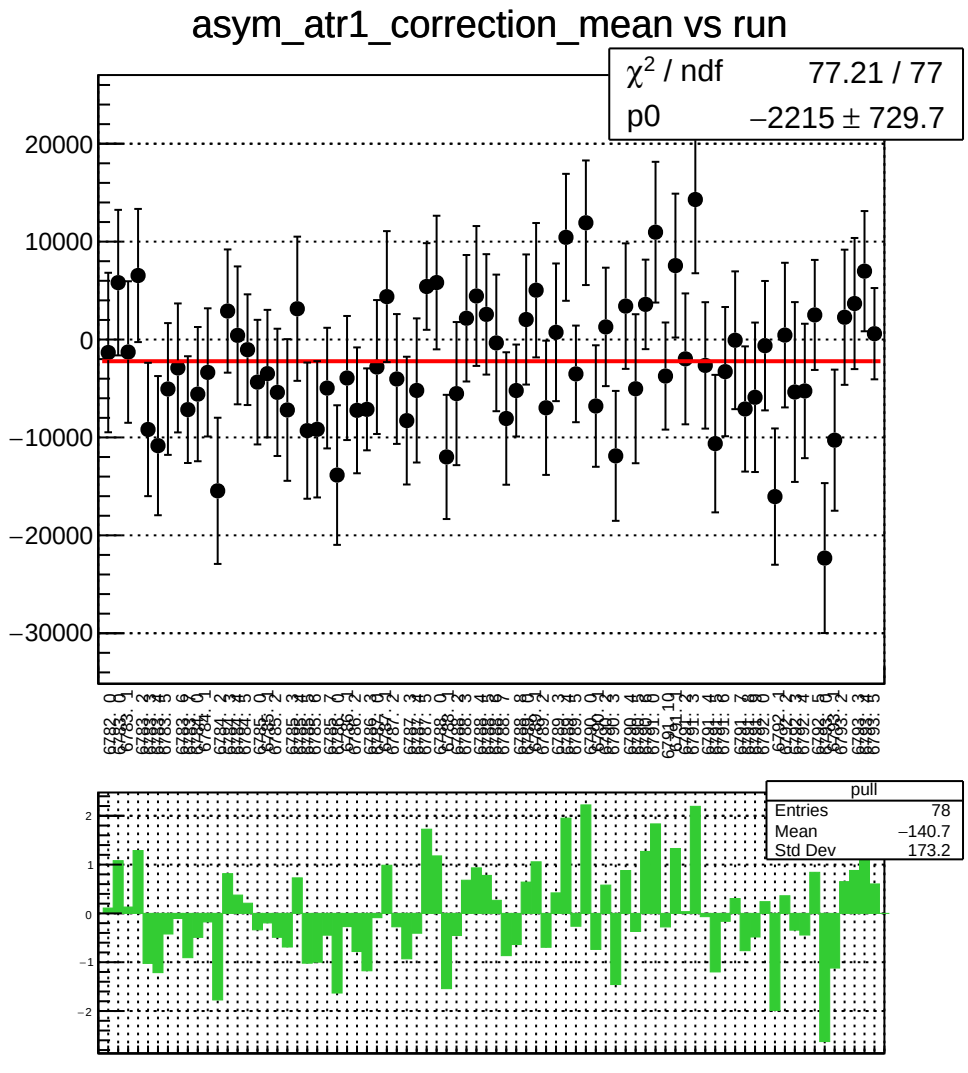

pull1D
Entries 78
Mean 0.01019
Std Dev 0.9138

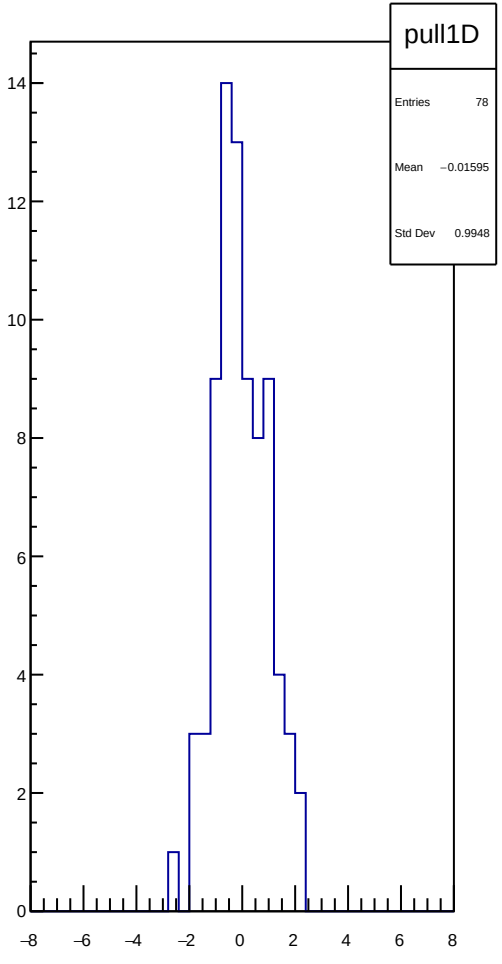

asym_atl2_rms vs run
χ² / ndf 2146 / 77
p0 8120 ± 6.49
9000
8800
8600
8400
8200
8000
7800
7600
7400

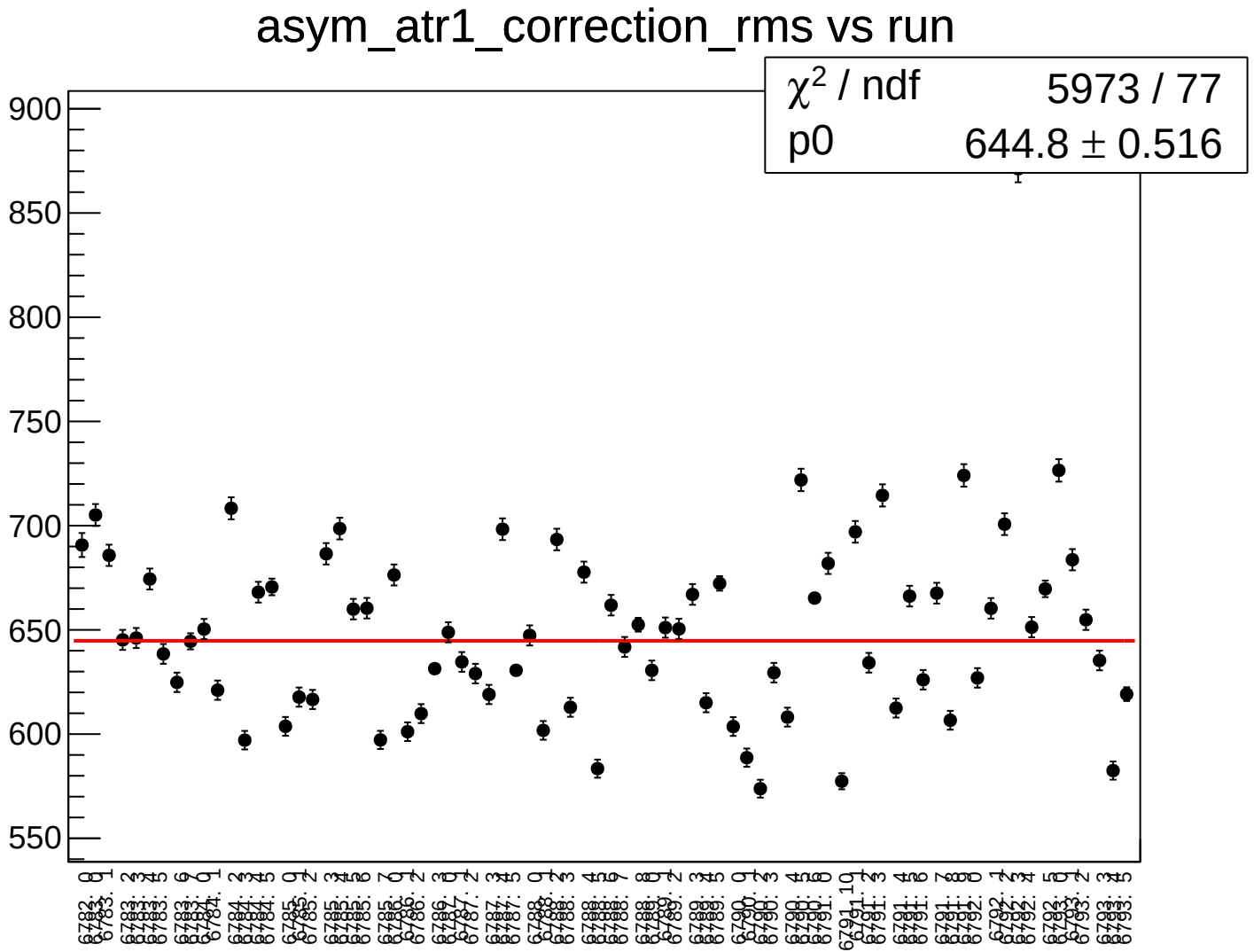

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 88.19 / 77
p0 −340.3 ± 3091
pull
Entries 78
Mean −951.2
Std Dev 995

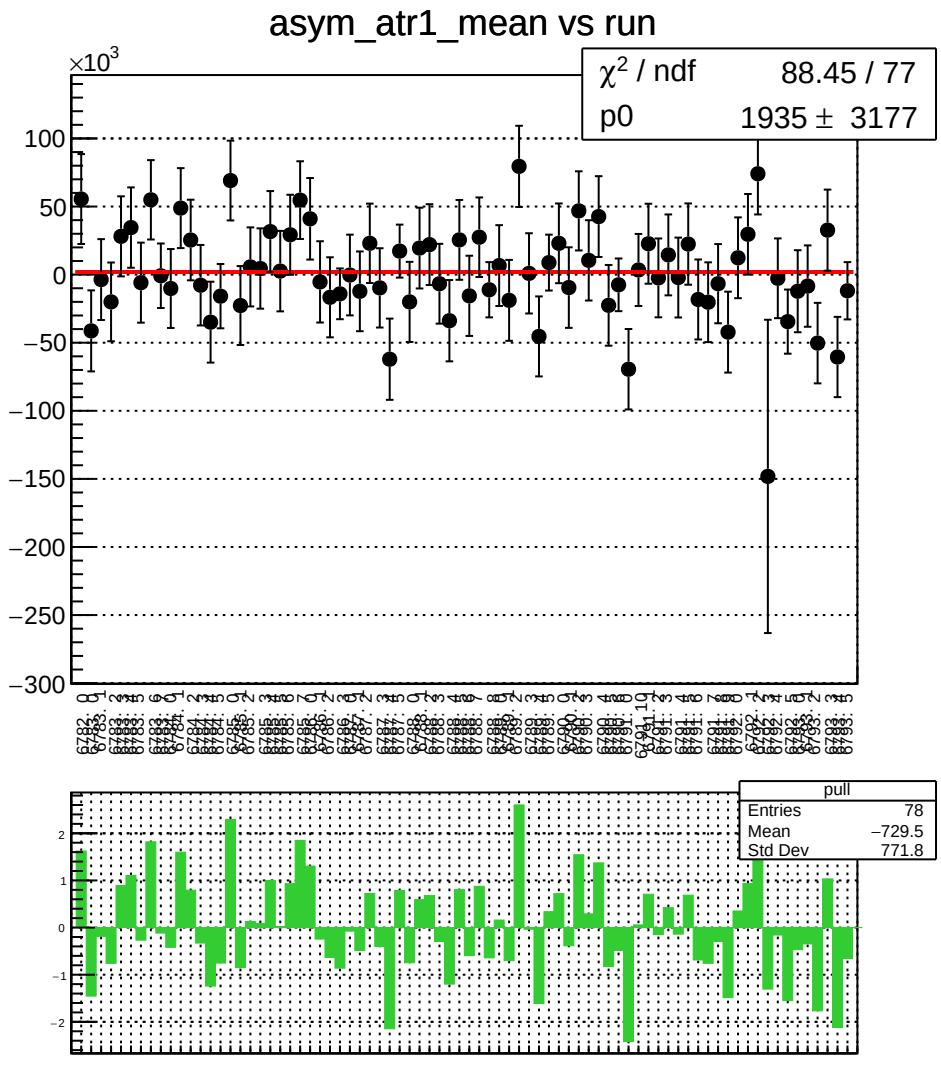

pull1D
Entries 78
Mean 0.004384
Std Dev 1.063

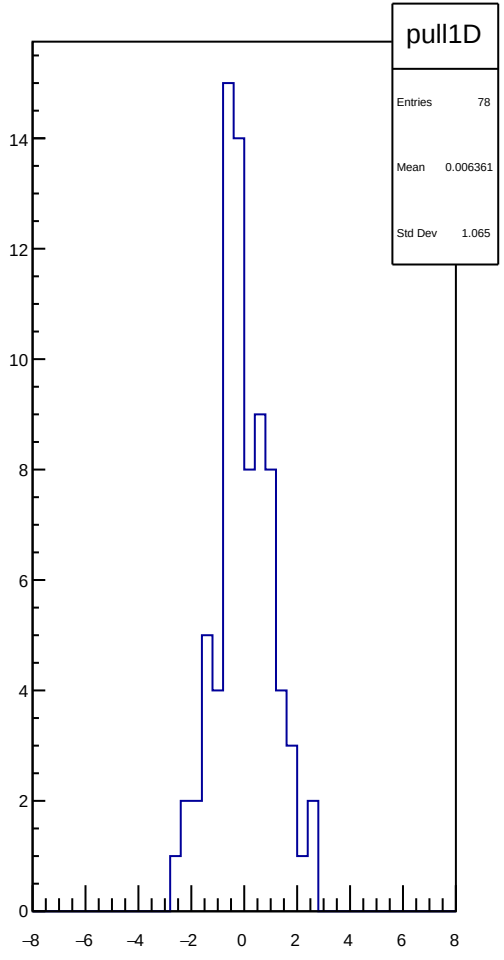

reg_asym_atr1_rms vs run
χ^2 / ndf 1.021e+04 / 77
p0 2727 ± 2.186
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

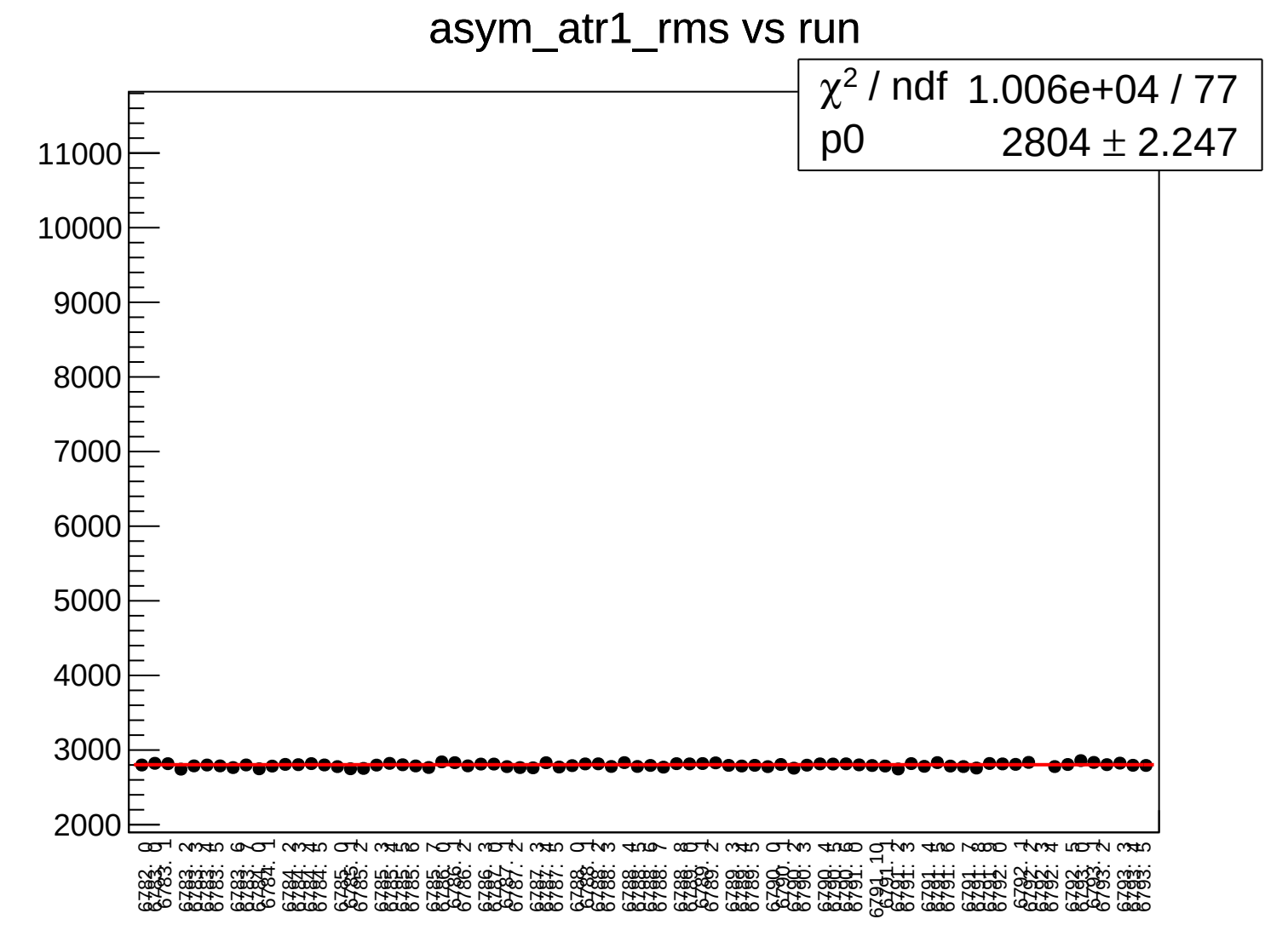

asym_atr1_correction_mean vs run
χ² / ndf 77.21 / 77
p0 −2215 ± 729.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean −140.7
Std Dev 173.2
2
1
0
−1
−2

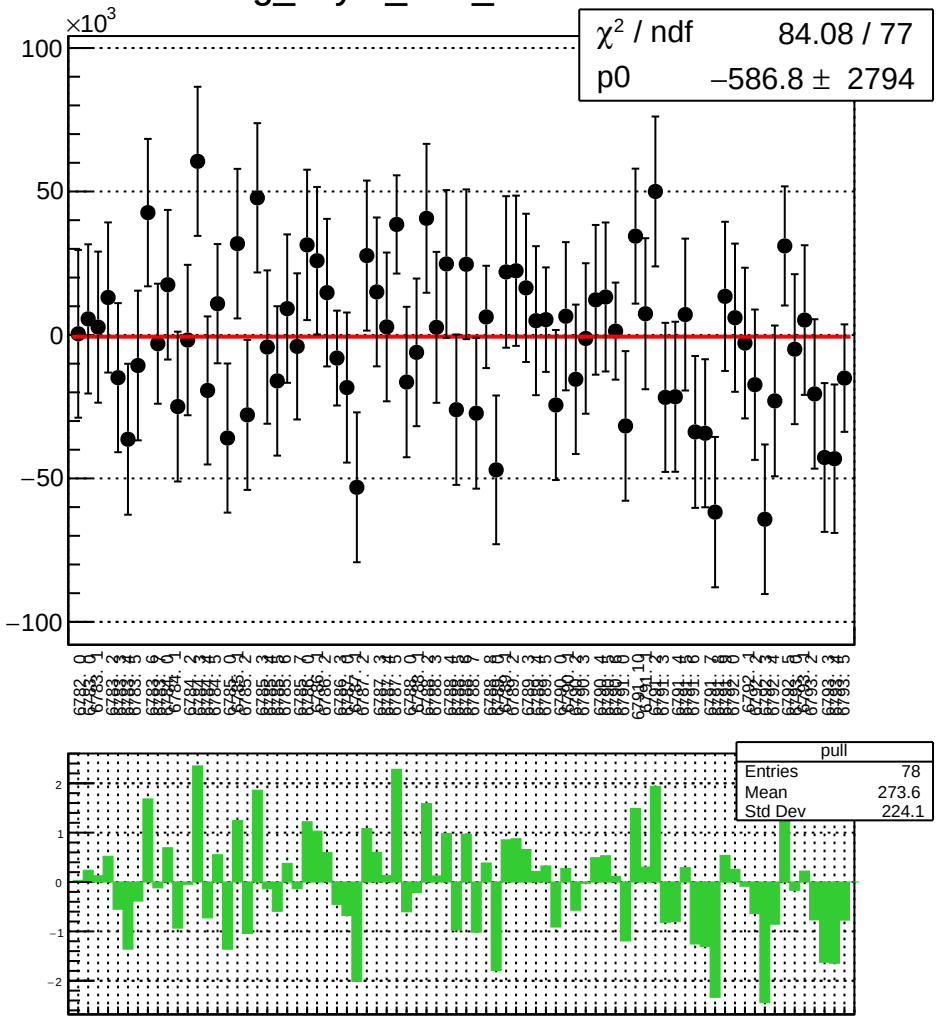

pull1D
Entries 78
Mean −0.01595
Std Dev 0.9948
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

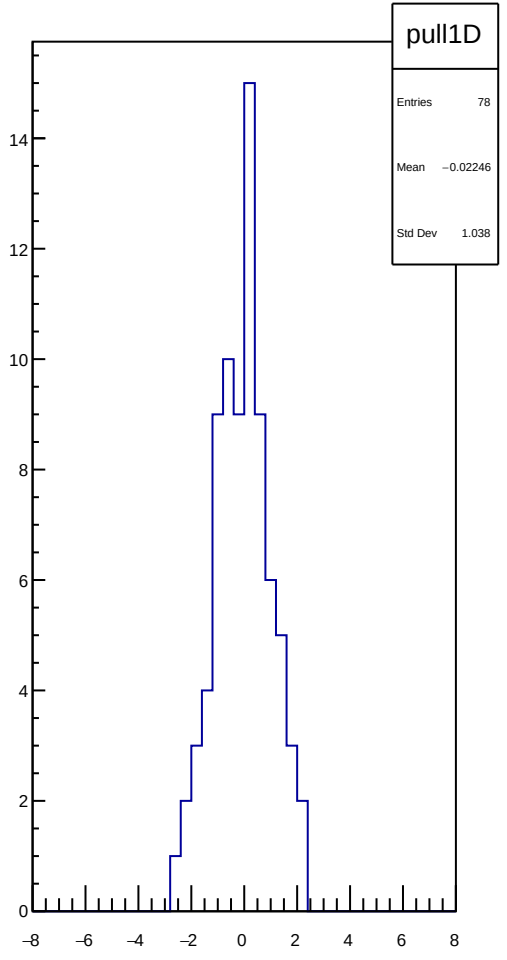

asym_atr1_correction_rms vs run
χ² / ndf 5973 / 77
p0 644.8 ± 0.516
900
850
800
750
700
650
600
550

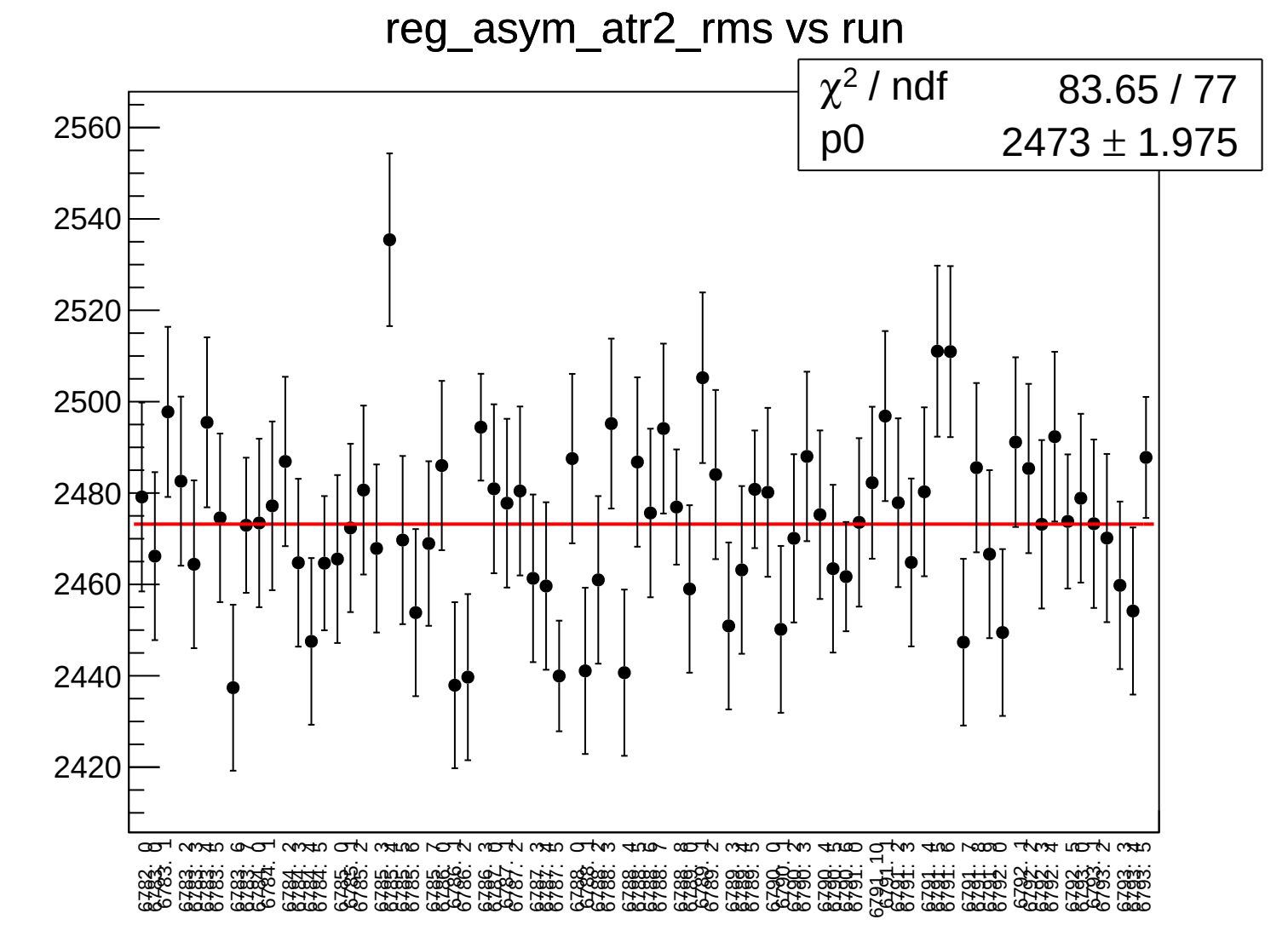

asym_atr1_mean vs run
×10^3
χ² / ndf 88.45 / 77
p0 1935 ± 3177
pull
Entries 78
Mean −729.5
Std Dev 771.8

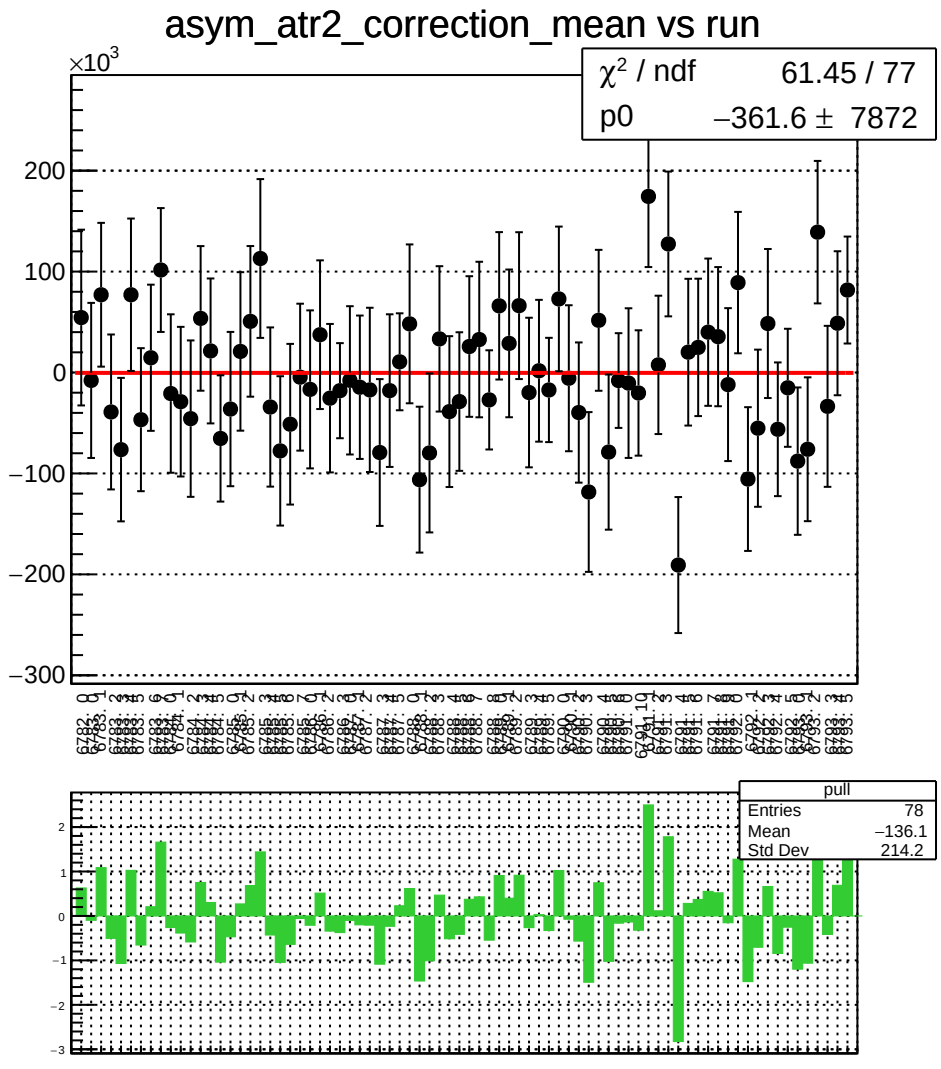

pull1D
Entries 78
Mean 0.006361
Std Dev 1.065

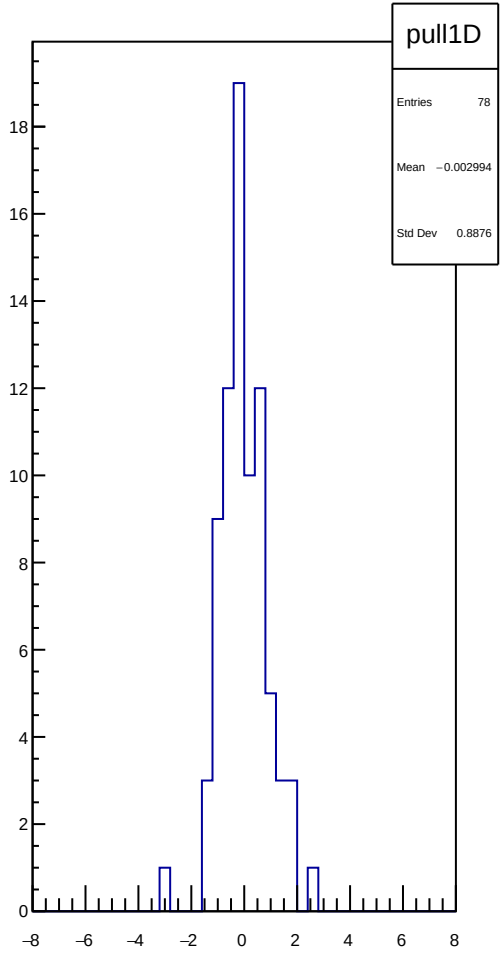

asym_atr1_rms vs run
χ^2 / ndf 1.006e+04 / 77
p0 2804 ± 2.247
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

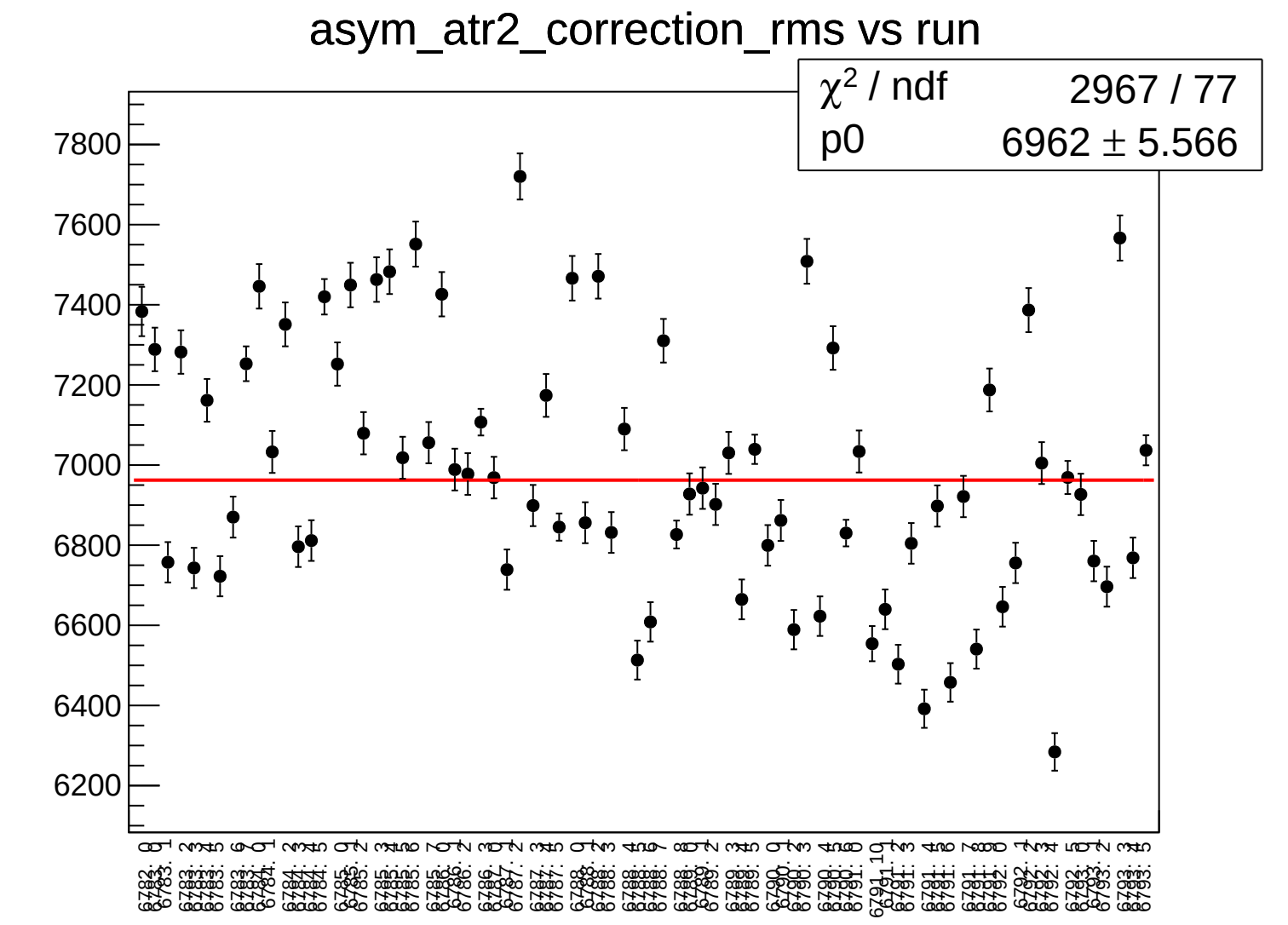

reg_asym_atr2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 84.08 / 77
p0 −586.8 ± 2794
pull
Entries 78
Mean 273.6
Std Dev 224.1
2
1
0
−1
−2

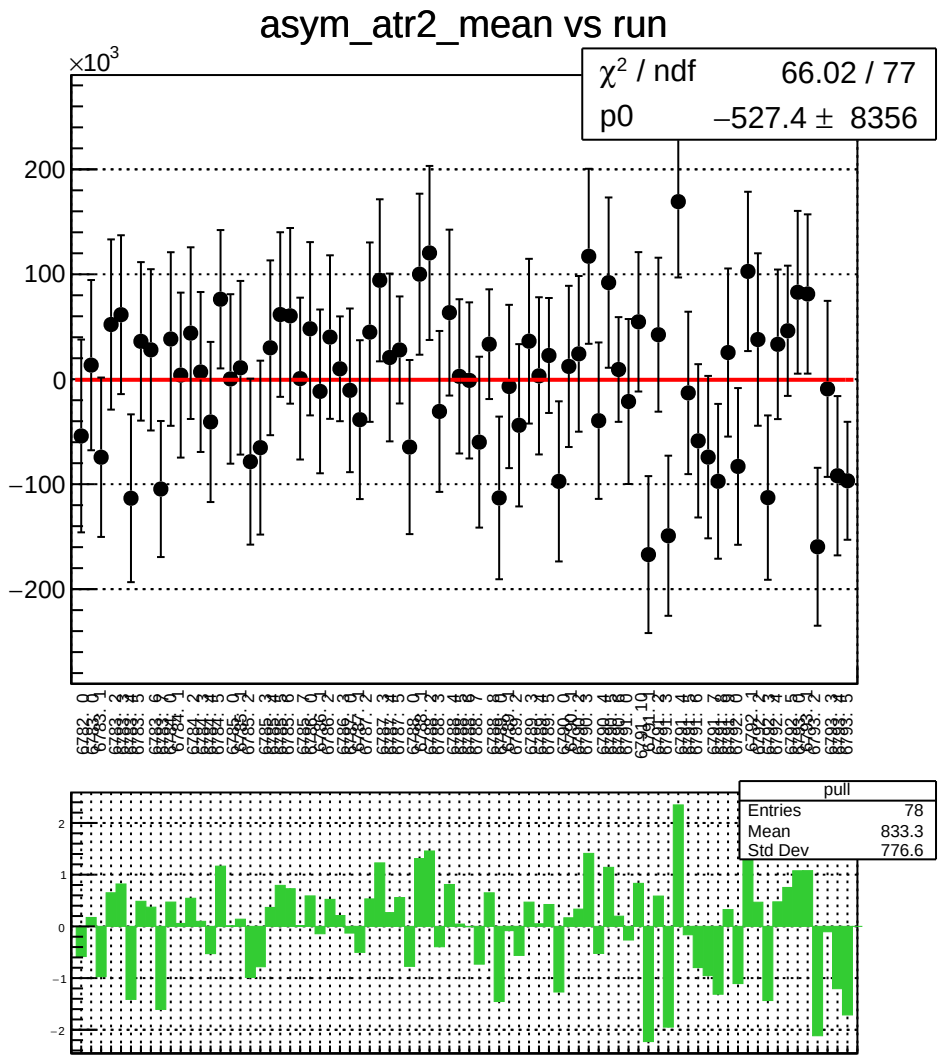

pull1D
Entries 78
Mean −0.02246
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

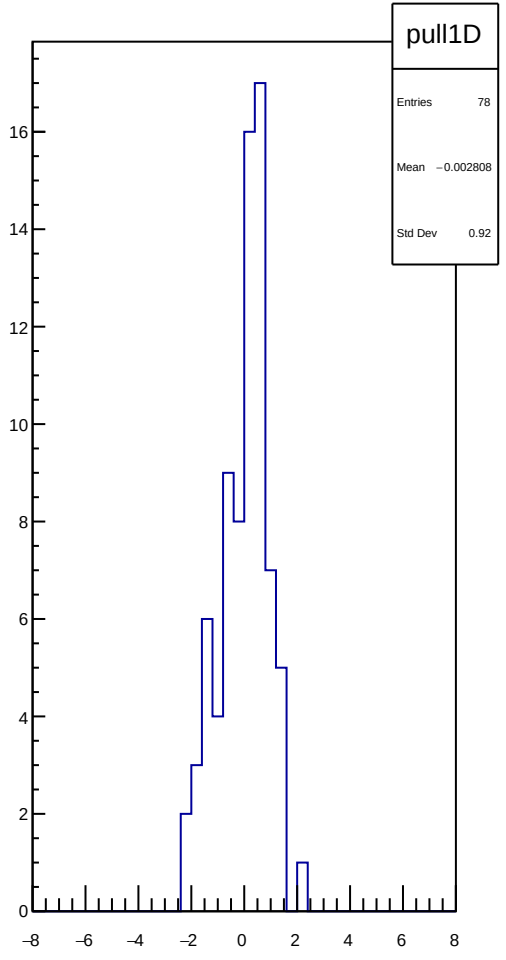

reg_asym_atr2_rms vs run
χ^2 / ndf 83.65 / 77
p0 2473 ± 1.975
2560
2540
2520
2500
2480
2460
2440
2420

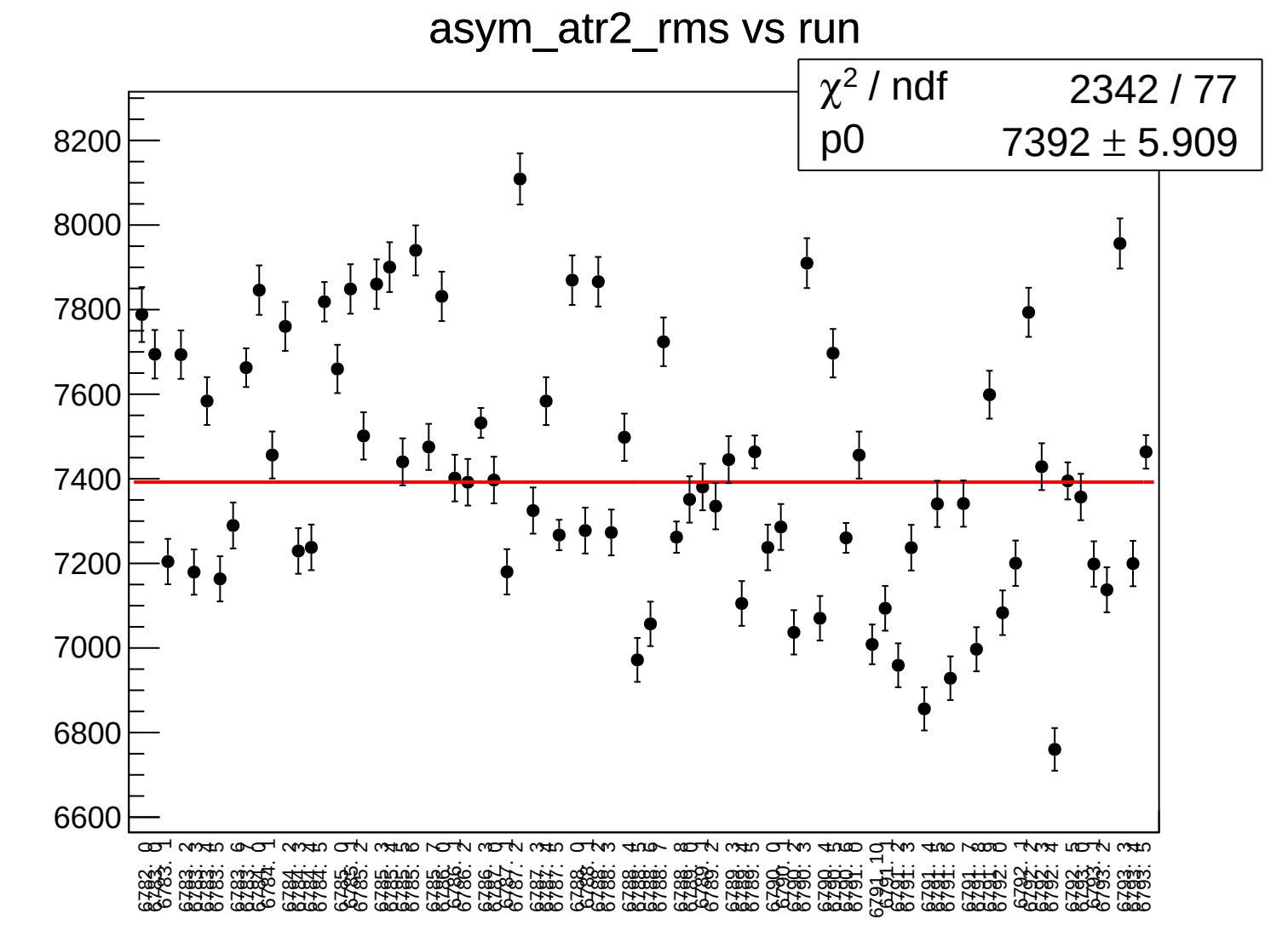

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 61.45 / 77
p0 −361.6 ± 7872
200
100
0
−100
−200
−300
pull
Entries 78
Mean −136.1
Std Dev 214.2
2
1
0
−1
−2
−3

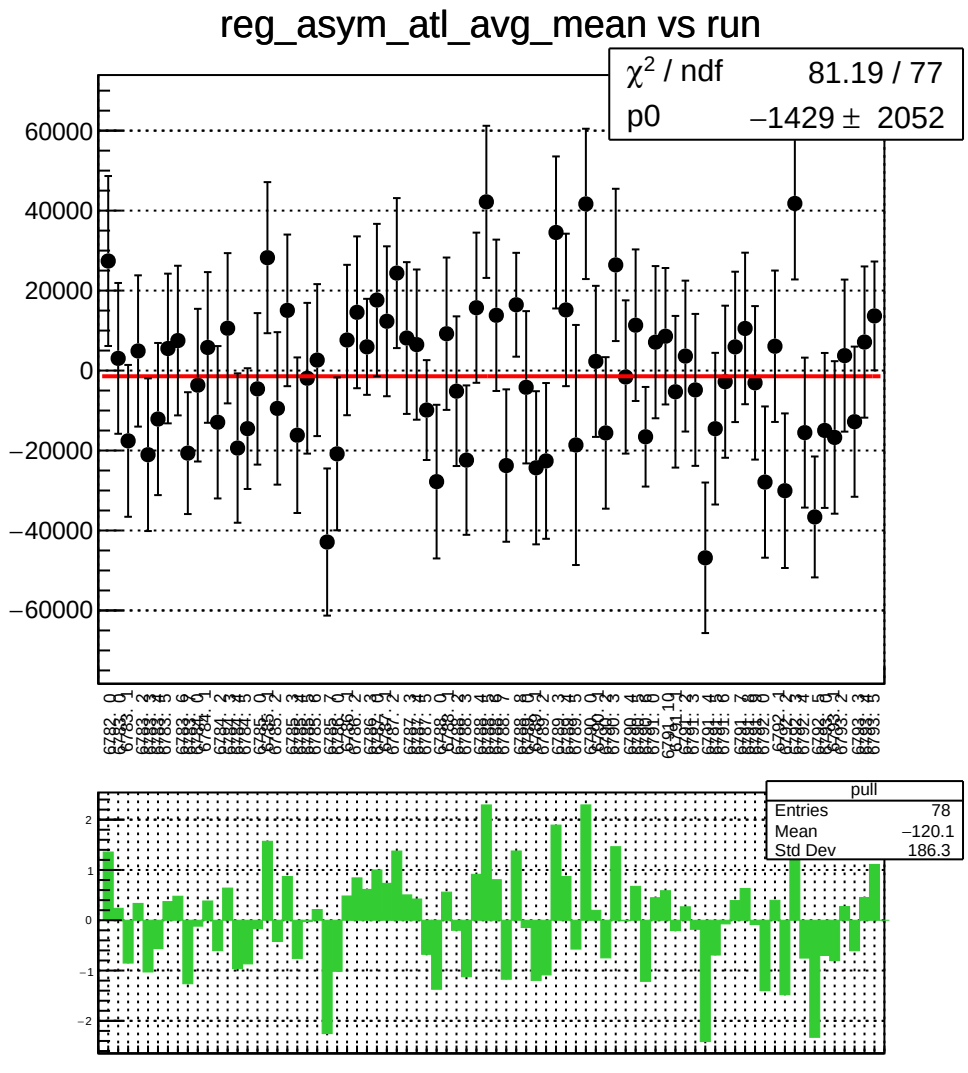

pull1D
Entries 78
Mean −0.002994
Std Dev 0.8876
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

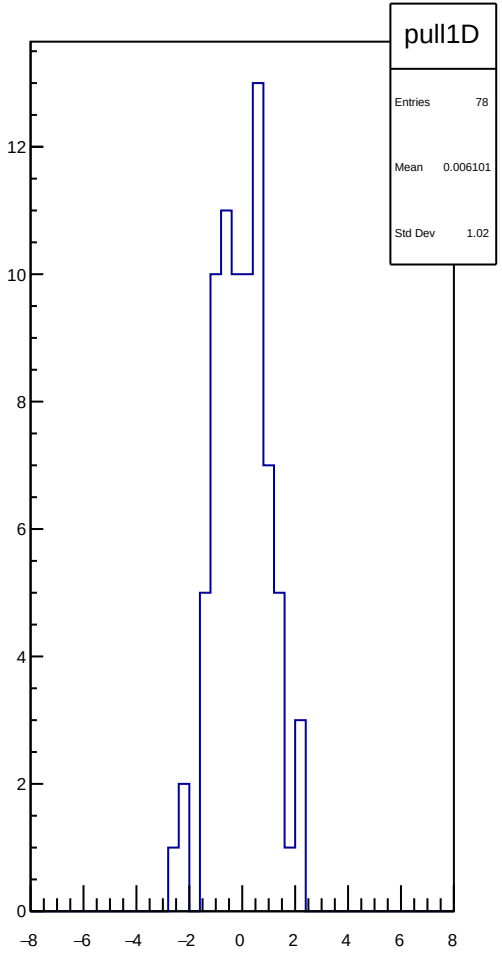

asym_atr2_correction_rms vs run
χ² / ndf 2967 / 77
p0 6962 ± 5.566
7800
7600
7400
7200
7000
6800
6600
6400
6200

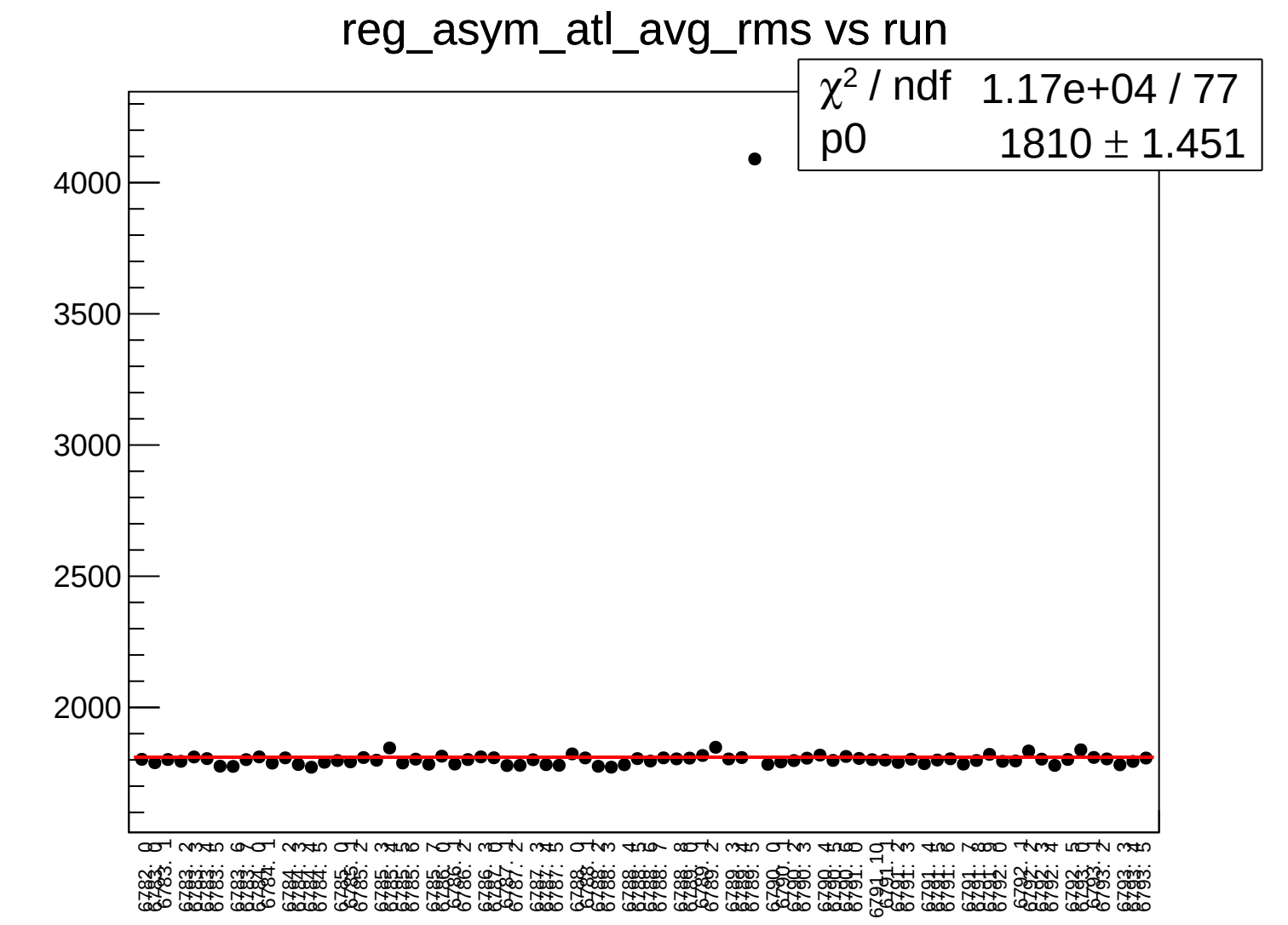

asym_atr2_mean vs run
×10^3
χ² / ndf 66.02 / 77
p0 −527.4 ± 8356
200
100
0
−100
−200
pull
Entries 78
Mean 833.3
Std Dev 776.6
2
1
0
−1
−2

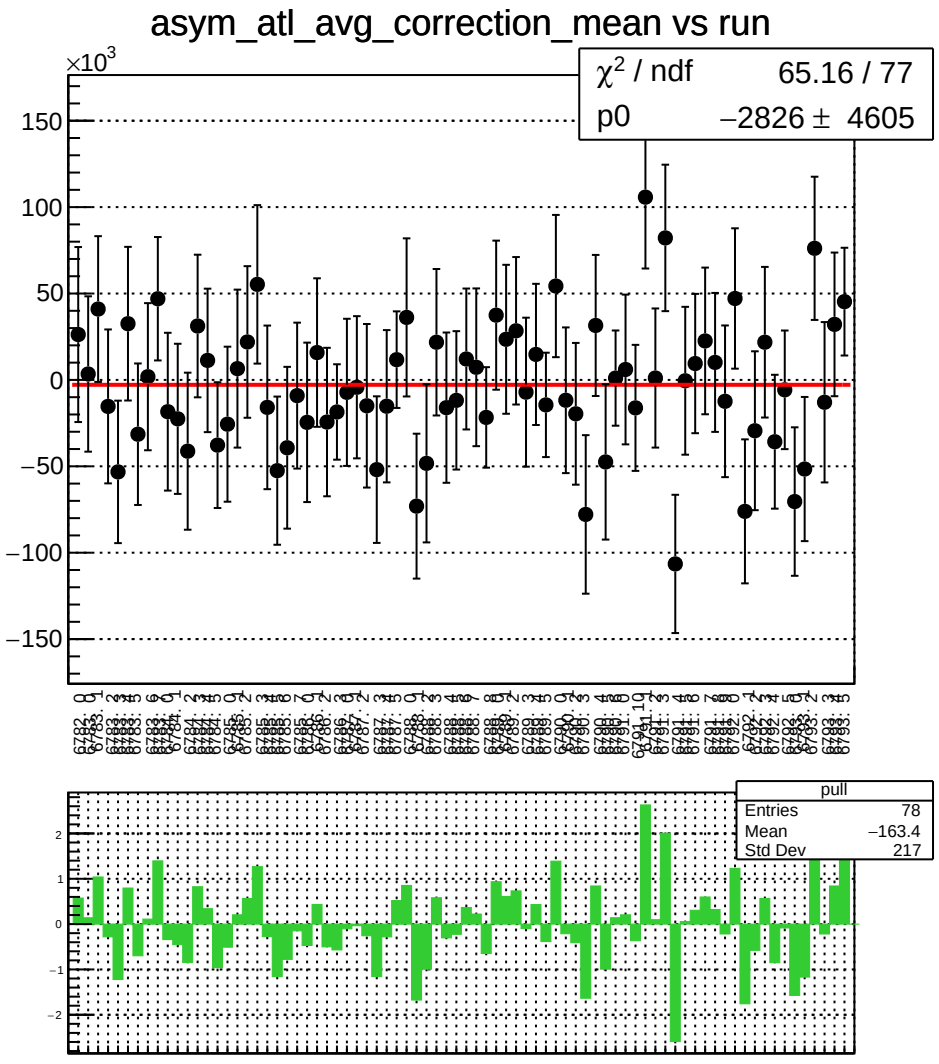

pull1D
Entries 78
Mean −0.002808
Std Dev 0.92
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

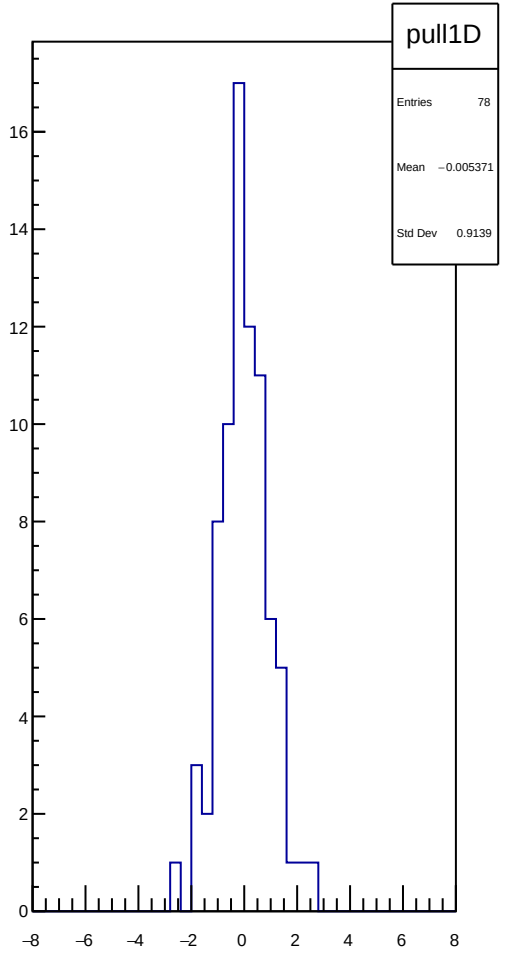

asym_atr2_rms vs run
χ² / ndf 2342 / 77
p0 7392 ± 5.909
8200
8000
7800
7600
7400
7200
7000
6800
6600

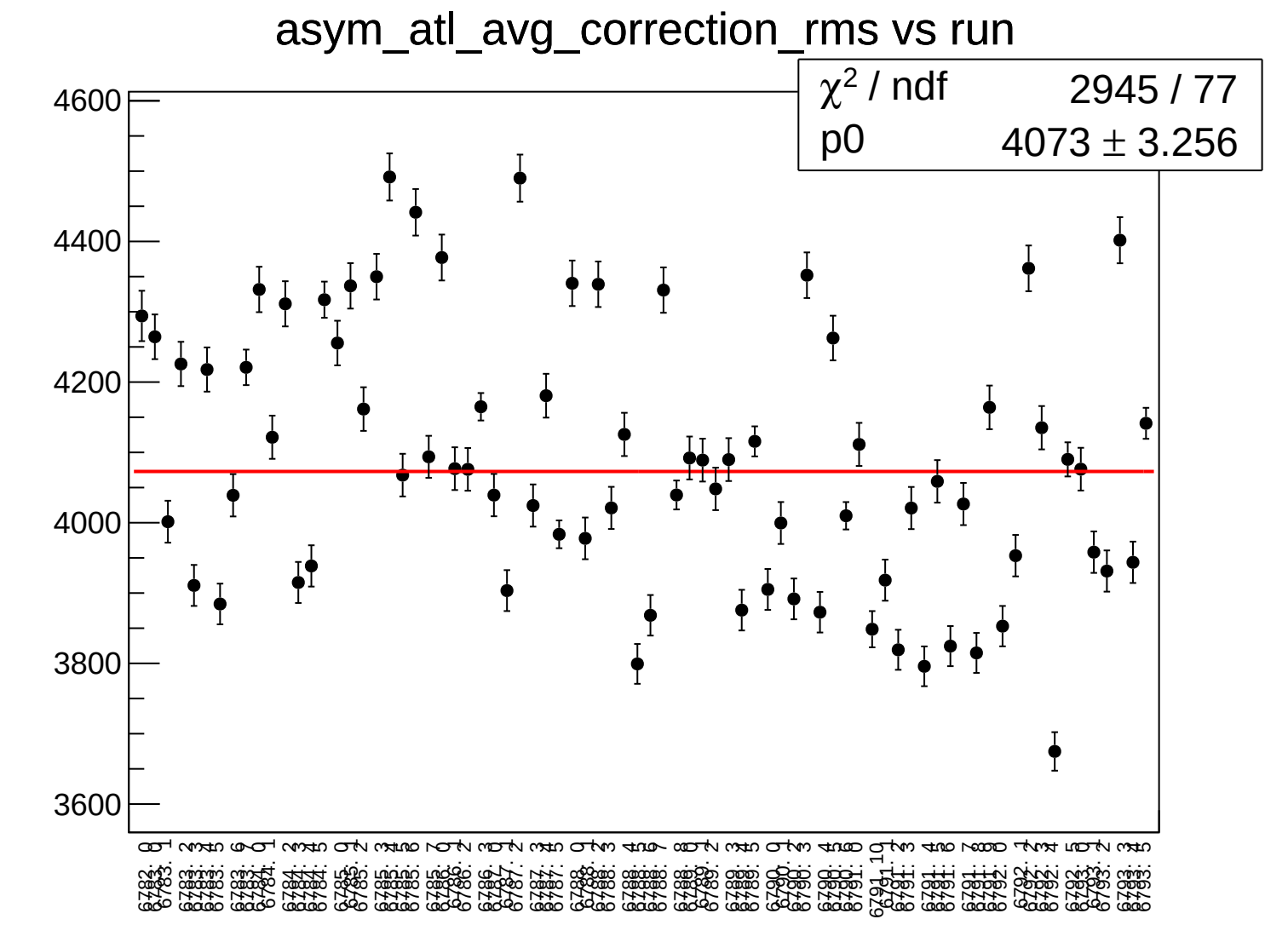

reg_asym_atl_avg_mean vs run
χ² / ndf 81.19 / 77
p0 −1429 ± 2052
pull
Entries 78
Mean −120.1
Std Dev 186.3

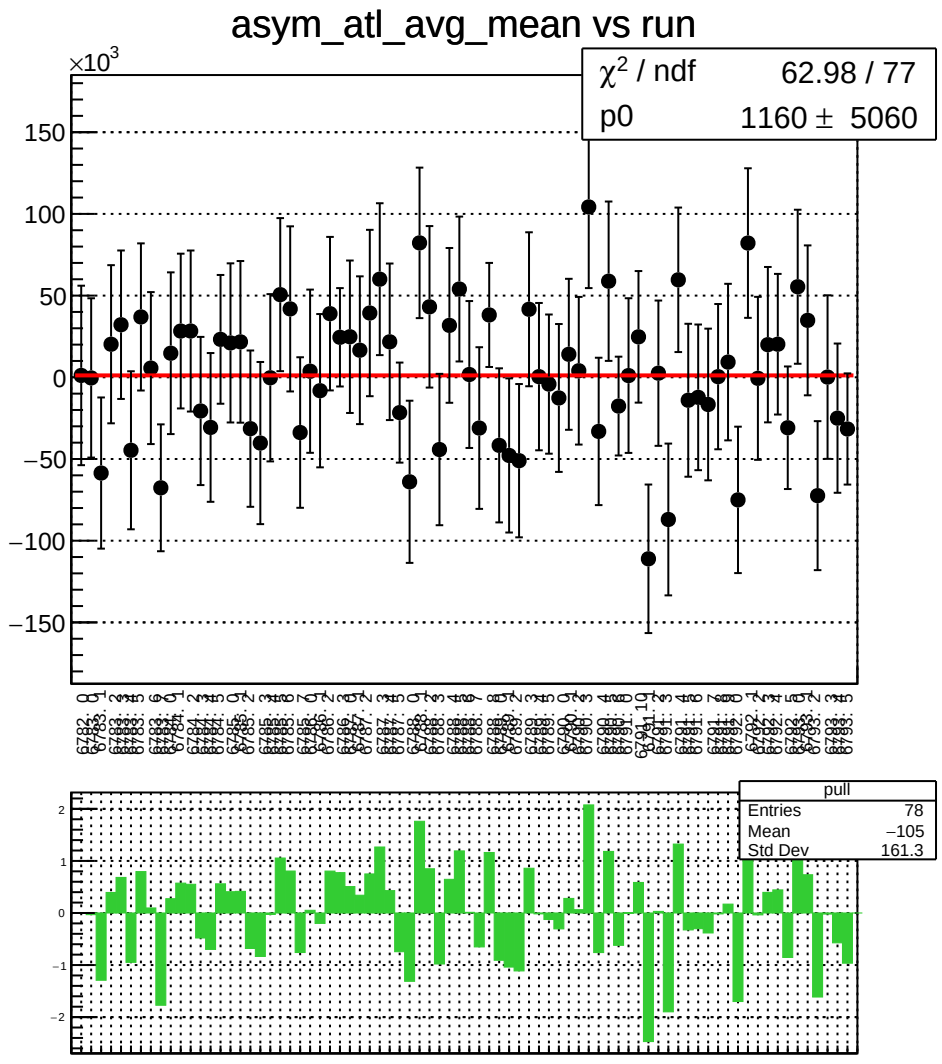

pull1D
Entries 78
Mean 0.006101
Std Dev 1.02

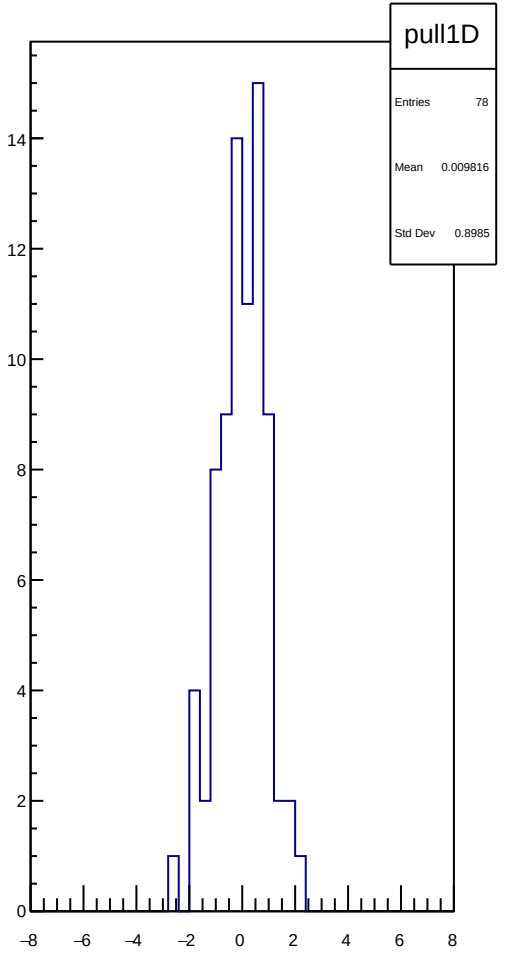

reg_asym_atl_avg_rms vs run
χ^2 / ndf 1.17e+04 / 77
p0 1810 ± 1.451
4000
3500
3000
2500
2000

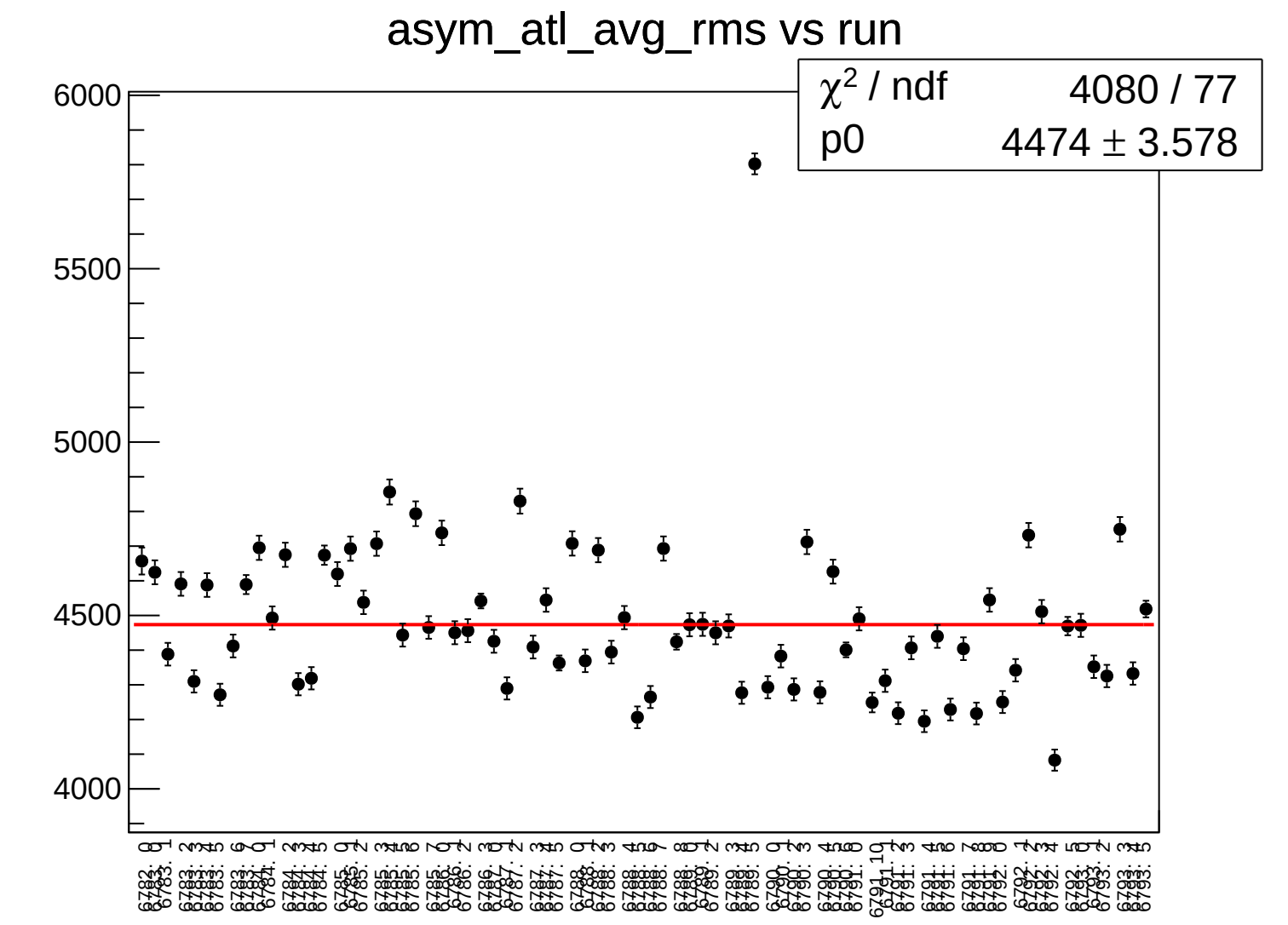

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 65.16 / 77
p0 −2826 ± 4605
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −163.4
Std Dev 217
2
1
0
−1
−2

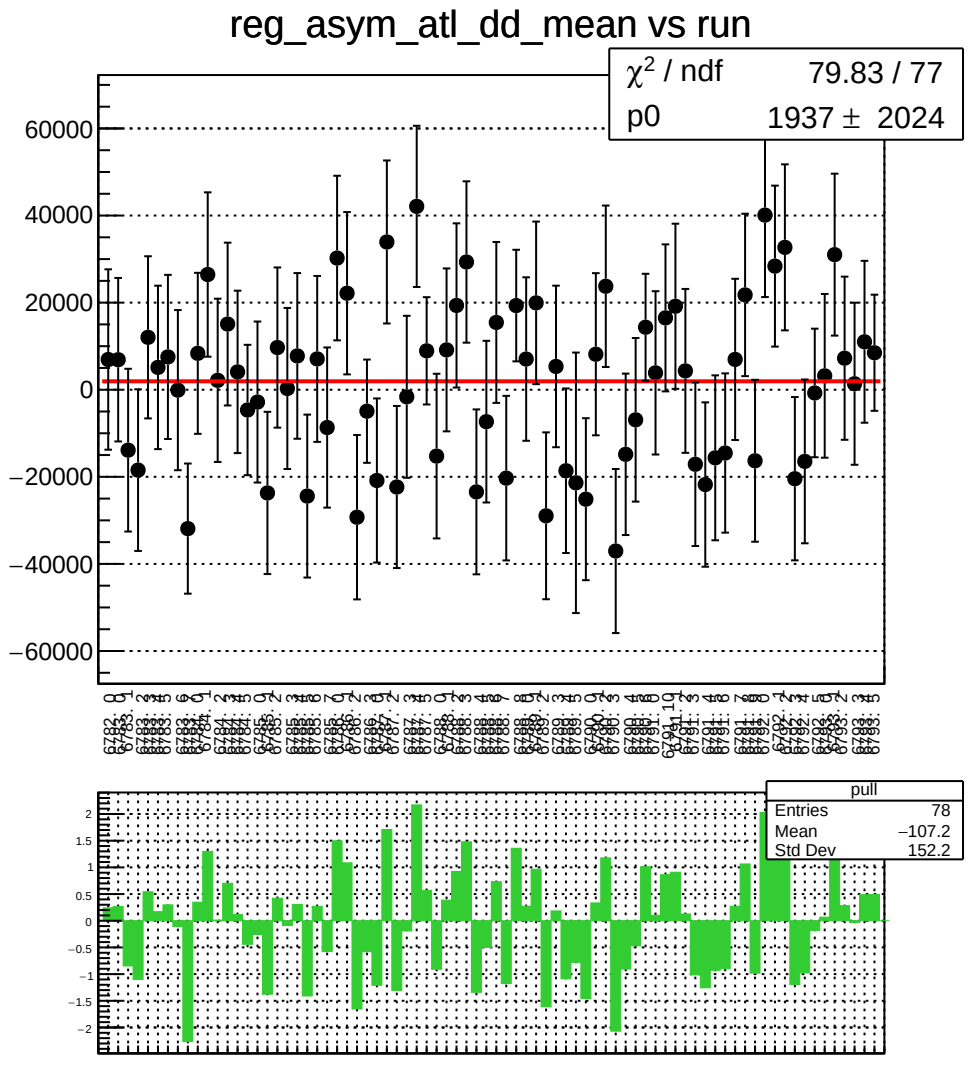

pull1D
Entries 78
Mean −0.005371
Std Dev 0.9139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

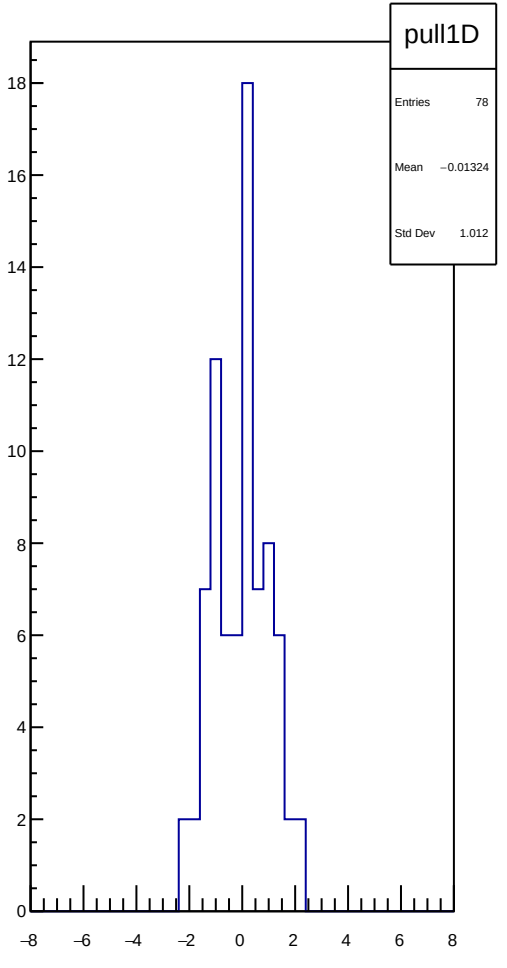

asym_atl_avg_correction_rms vs run
χ² / ndf 2945 / 77
p0 4073 ± 3.256
4600
4400
4200
4000
3800
3600

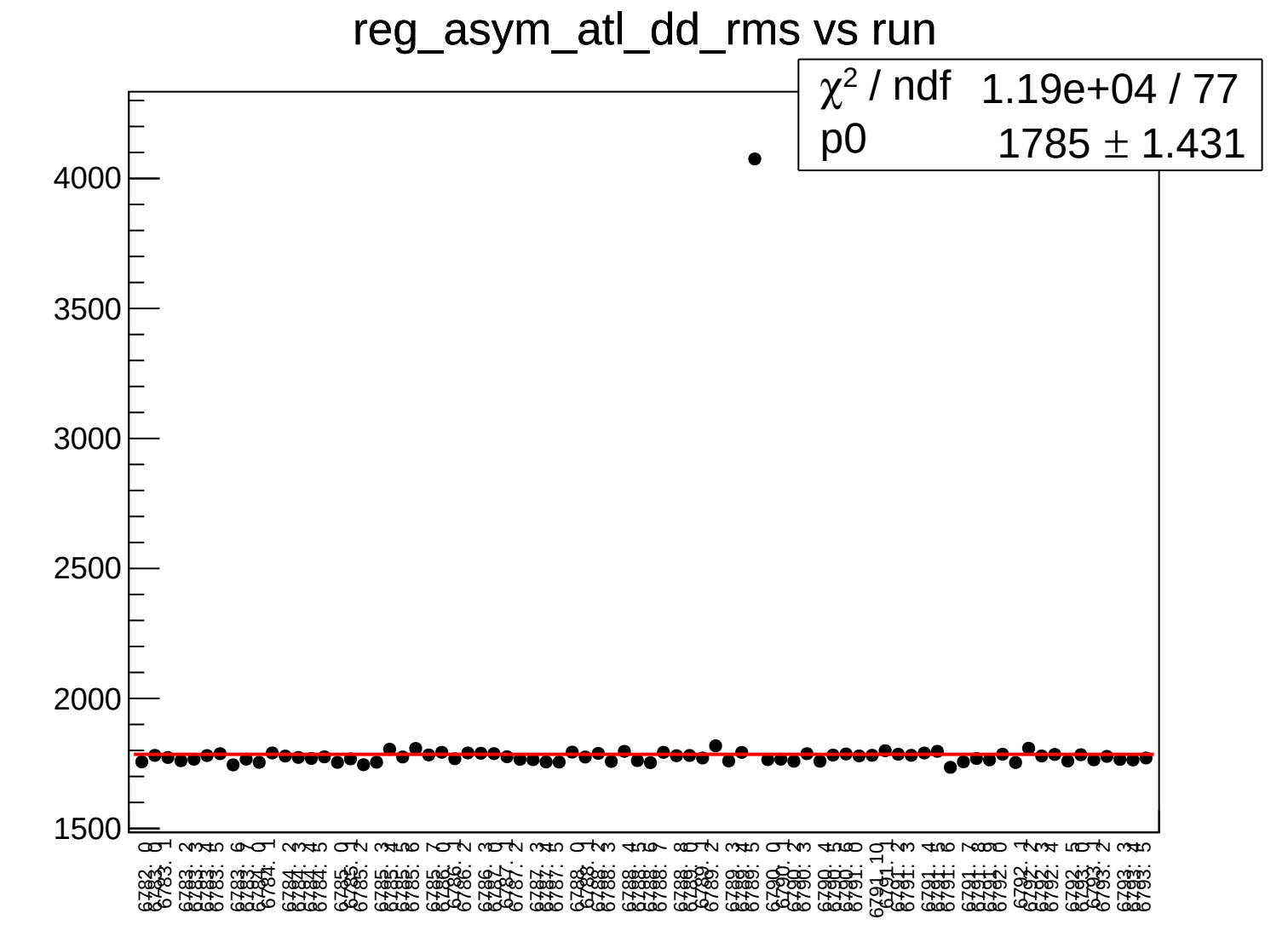

asym_atl_avg_mean vs run
×10^3
χ² / ndf 62.98 / 77
p0 1160 ± 5060
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −105
Std Dev 161.3
2
1
0
−1
−2

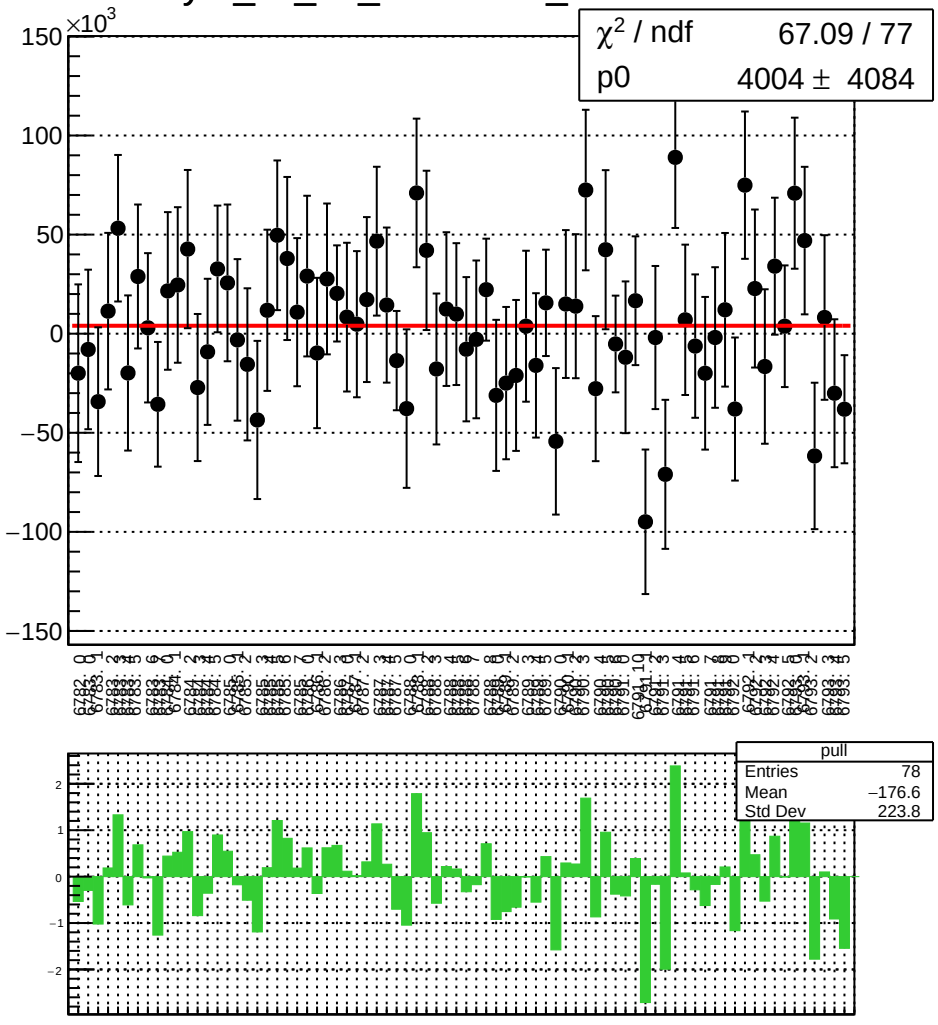

pull1D
Entries 78
Mean 0.009816
Std Dev 0.8985
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

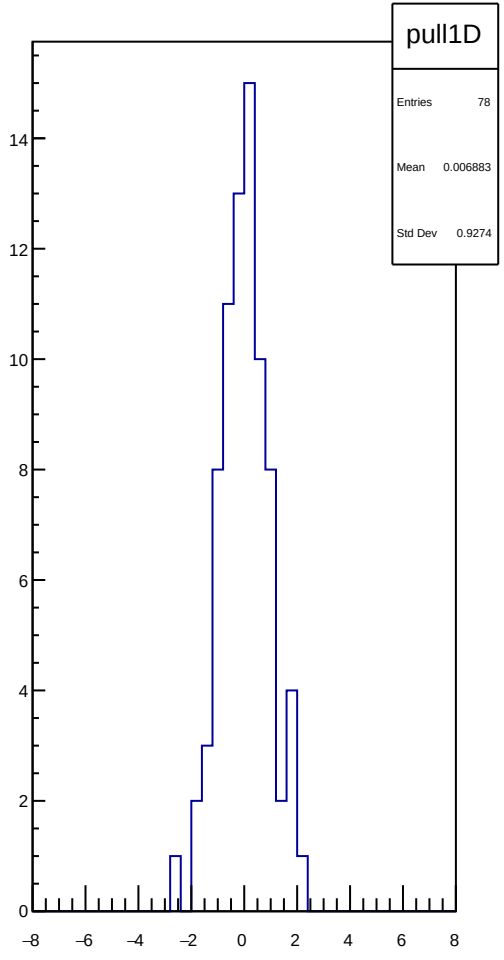

asym_atl_avg_rms vs run
χ² / ndf 4080 / 77
p0 4474 ± 3.578
6000
5500
5000
4500
4000

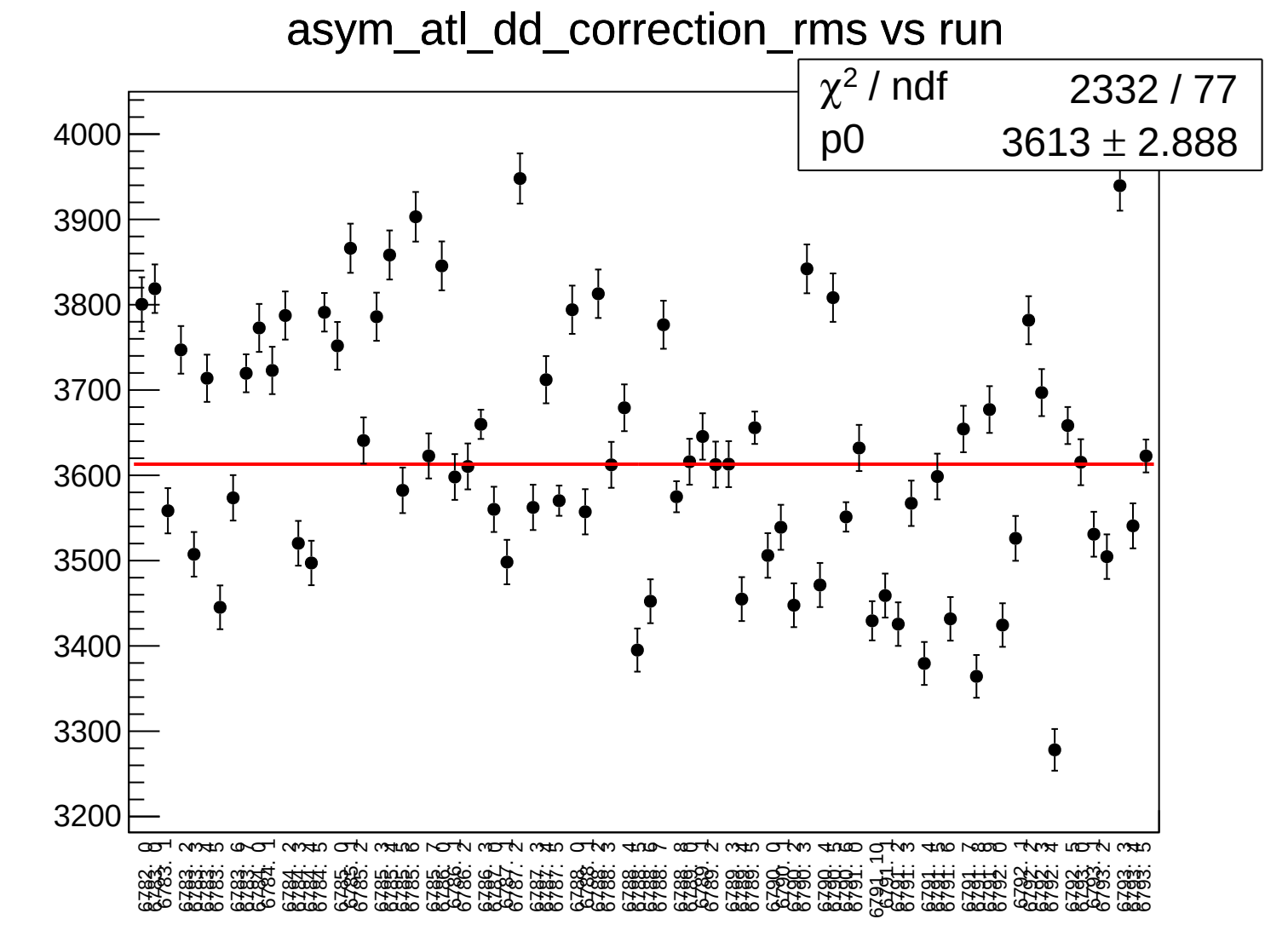

reg_asym_atl_dd_mean vs run
χ² / ndf 79.83 / 77
p0 1937 ± 2024
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean −107.2
Std Dev 152.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

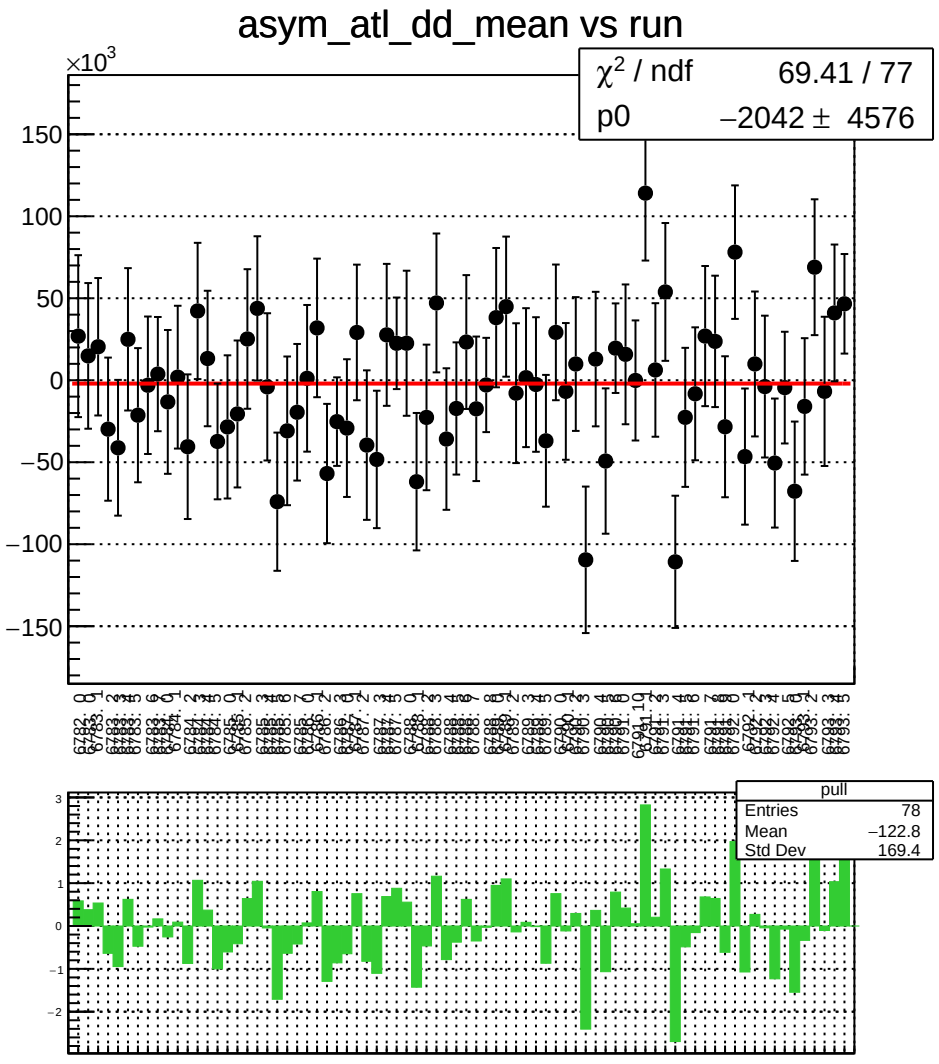

pull1D
Entries 78
Mean −0.01324
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

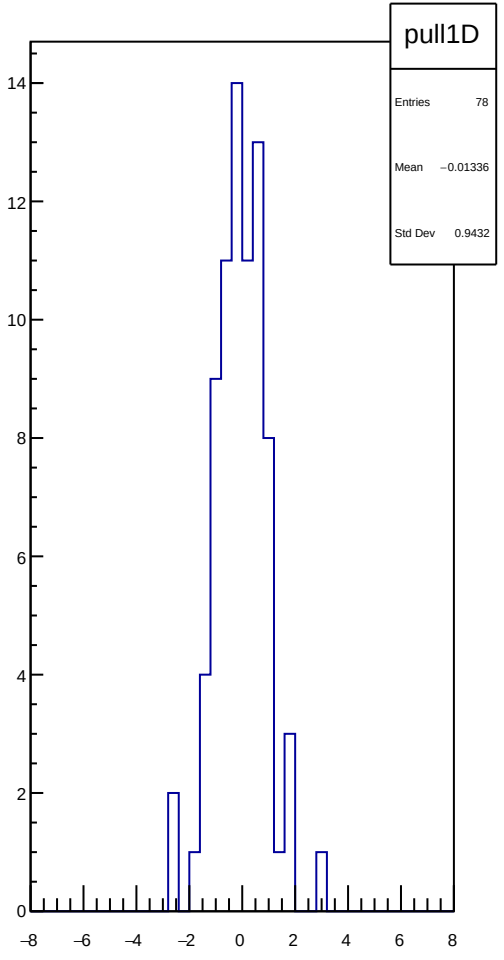

reg_asym_atl_dd_rms vs run
χ^2 / ndf 1.19e+04 / 77
p0 1785 ± 1.431
4000
3500
3000
2500
2000
1500

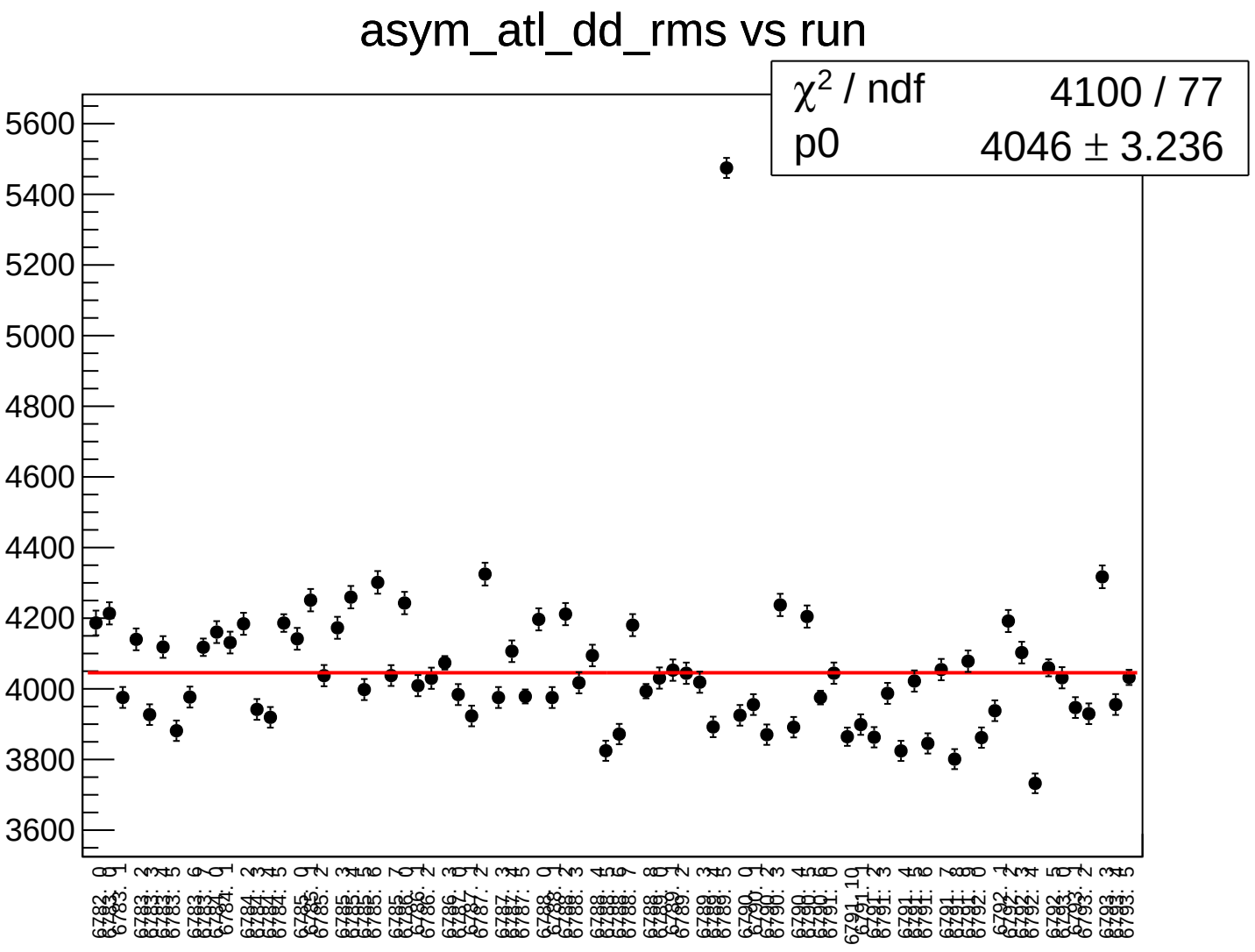

asym_atl_dd_correction_mean vs run
χ² / ndf 67.09 / 77
p0 4004 ± 4084
×10³
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −176.6
Std Dev 223.8
2
1
0
−1
−2

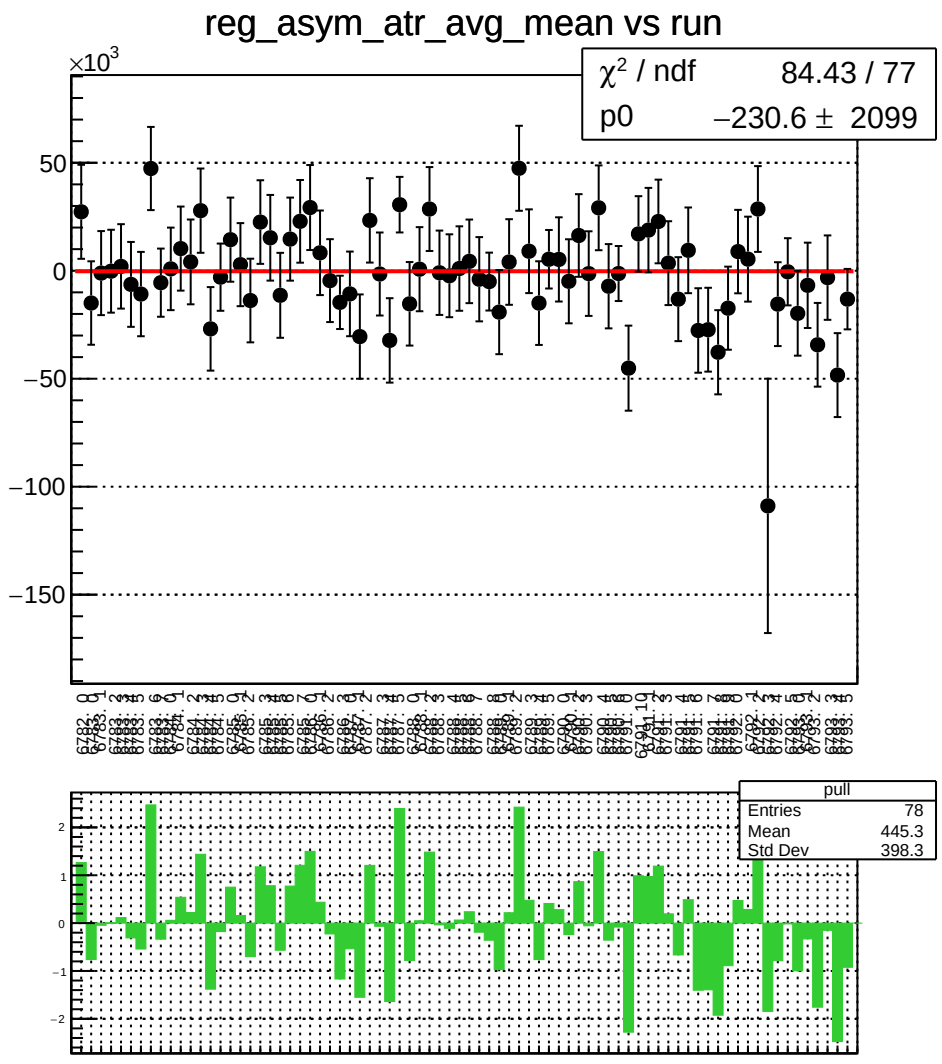

pull1D
Entries 78
Mean 0.006883
Std Dev 0.9274
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

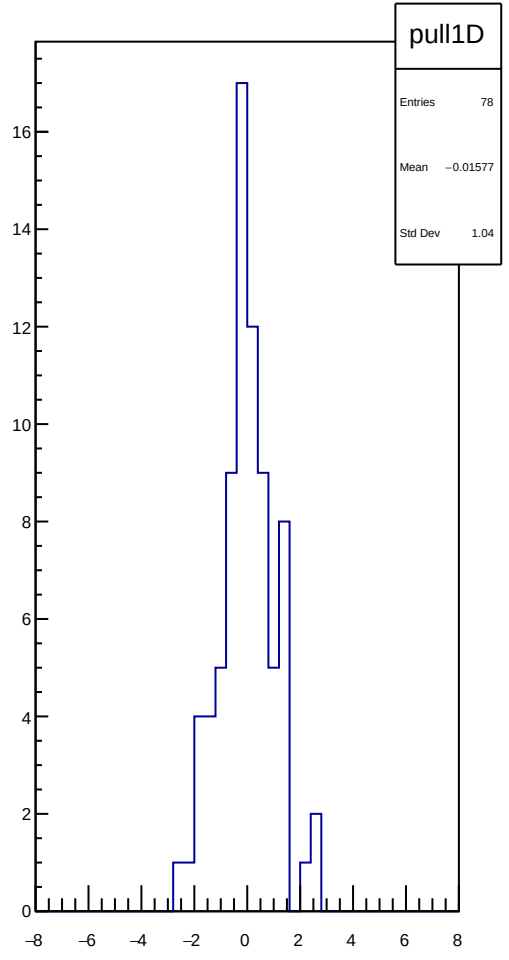

asym_atl_dd_correction_rms vs run
χ² / ndf 2332 / 77
p0 3613 ± 2.888
4000
3900
3800
3700
3600
3500
3400
3300
3200

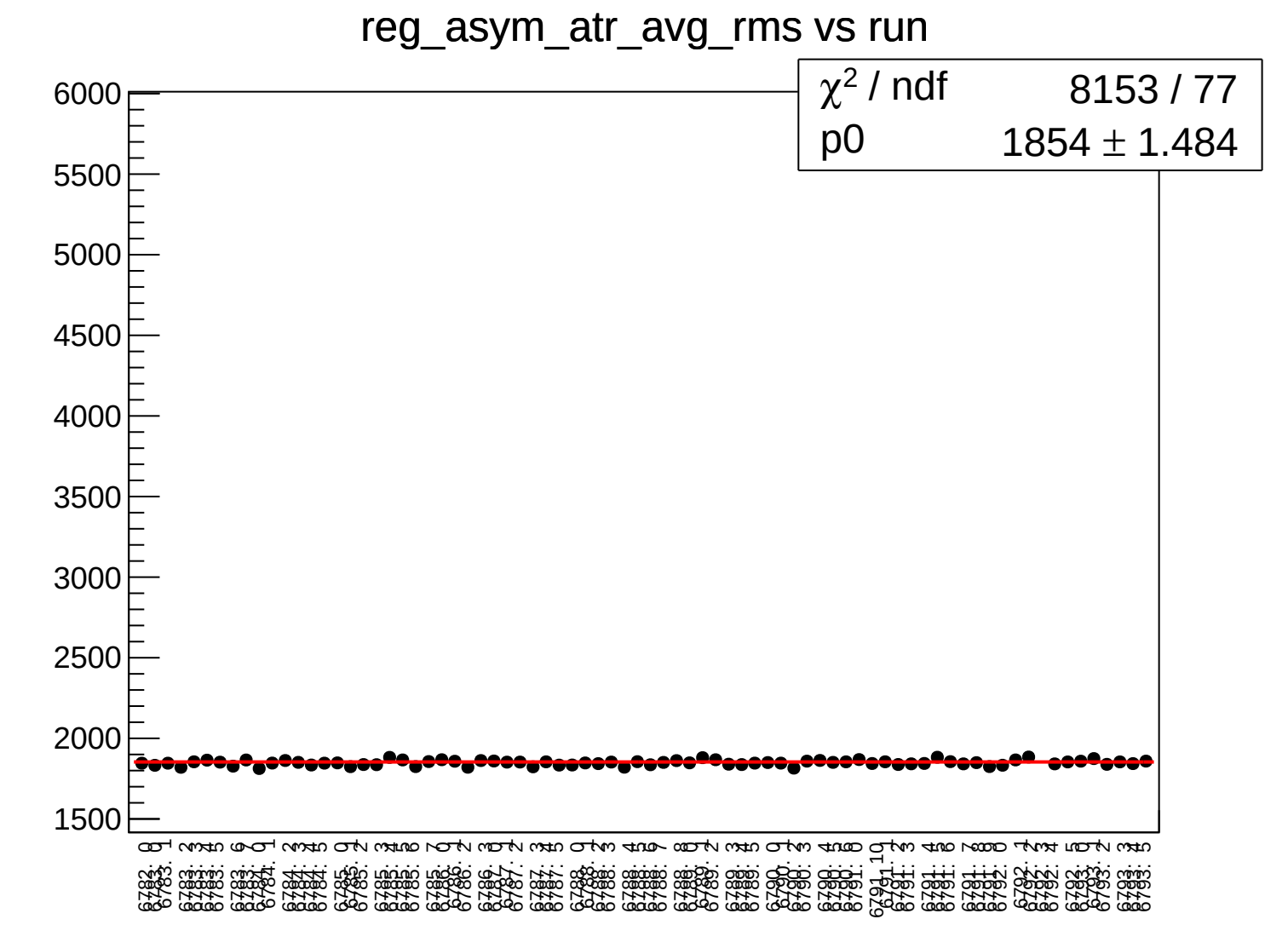

asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 69.41 / 77
p0 −2042 ± 4576
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −122.8
Std Dev 169.4
3
2
1
0
−1
−2

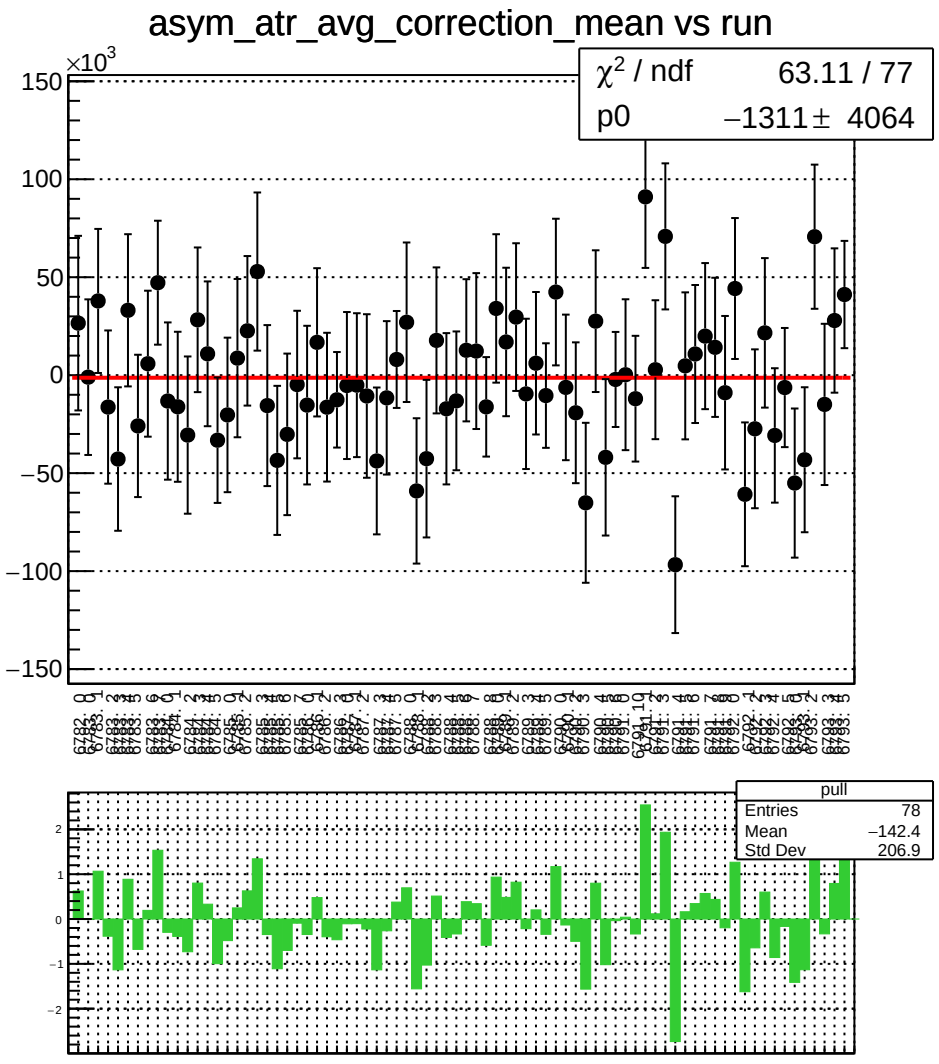

pull1D
Entries 78
Mean −0.01336
Std Dev 0.9432
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

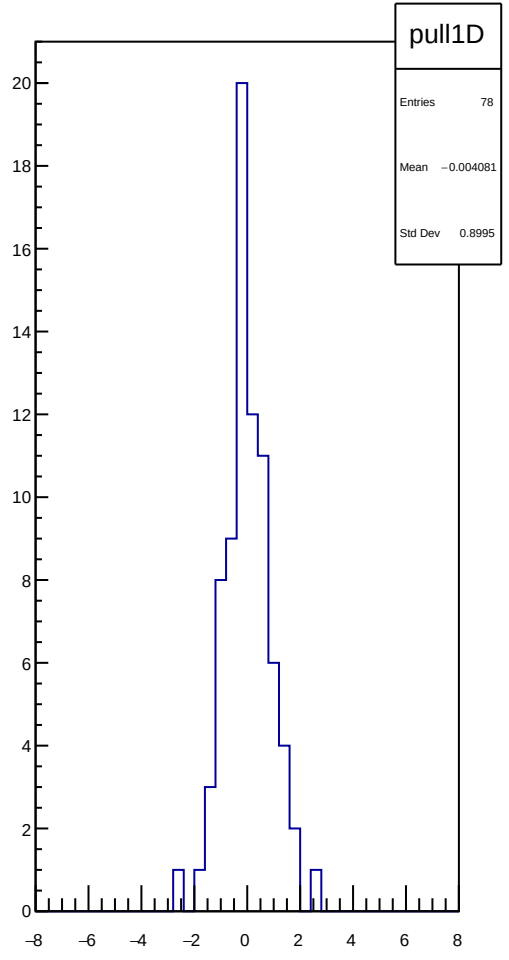

asym_atl_dd_rms vs run
χ^2 / ndf 4100 / 77
p0 4046 ± 3.236
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

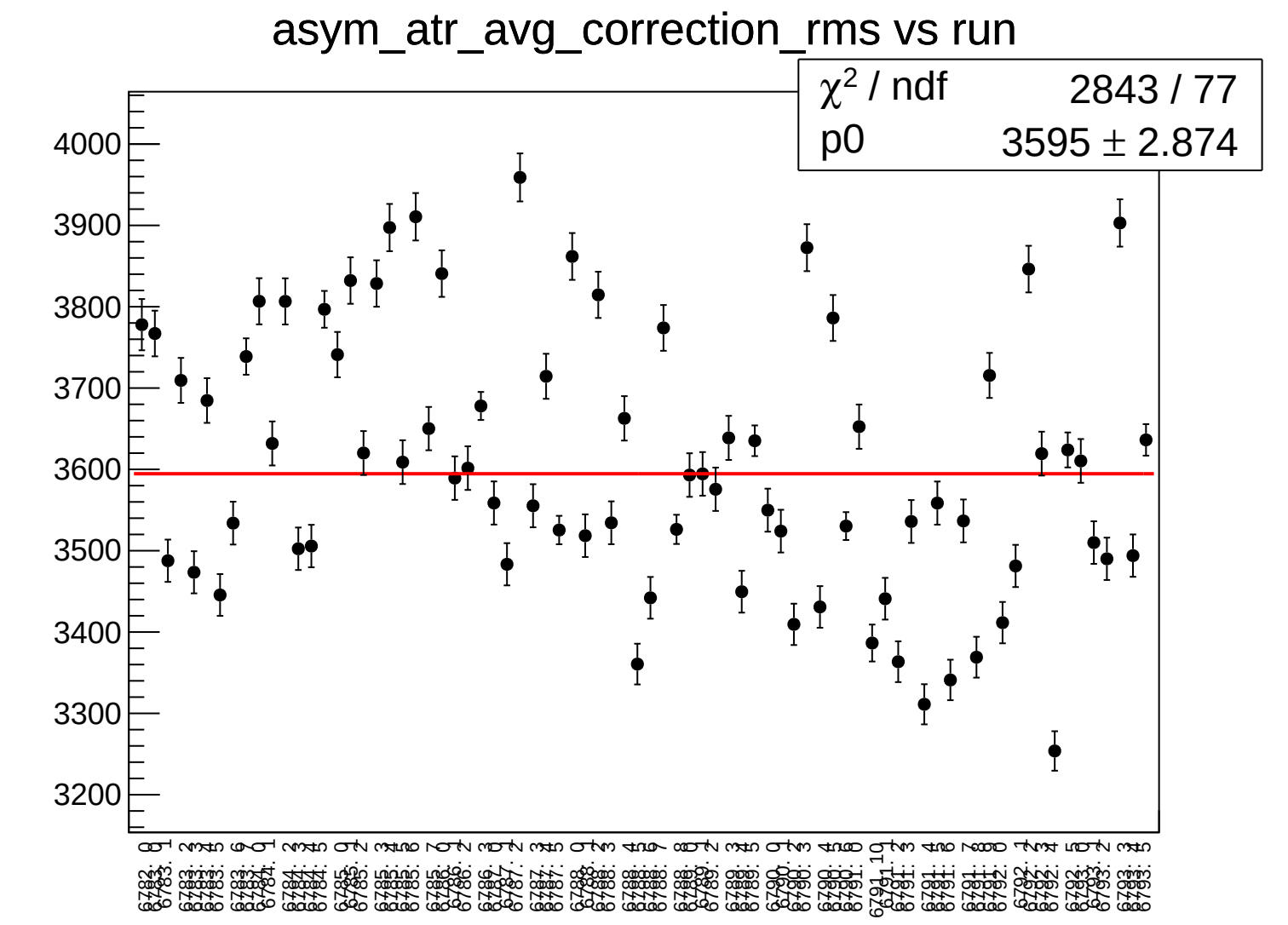

reg_asym_atr_avg_mean vs run
×10^3
χ² / ndf 84.43 / 77
p0 −230.6 ± 2099
50
0
−50
−100
−150
pull
Entries 78
Mean 445.3
Std Dev 398.3
2
1
0
−1
−2

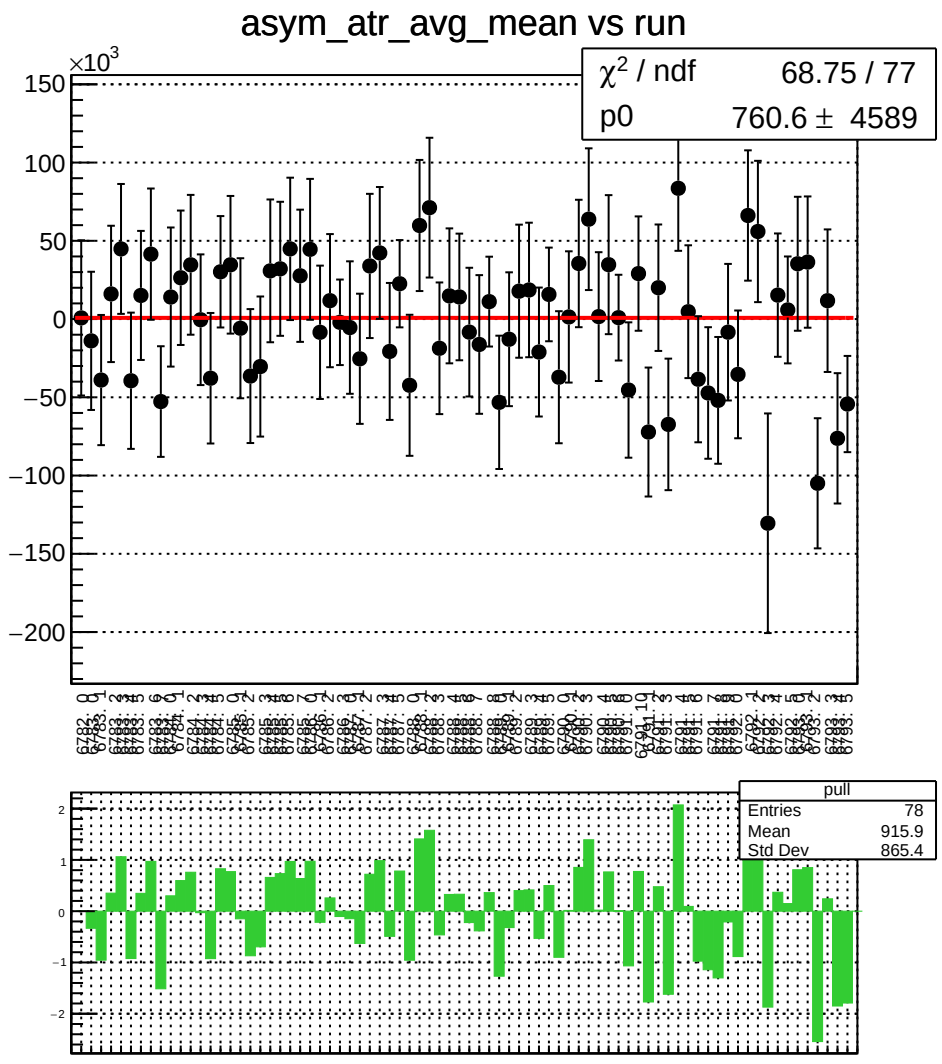

pull1D
Entries 78
Mean −0.01577
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

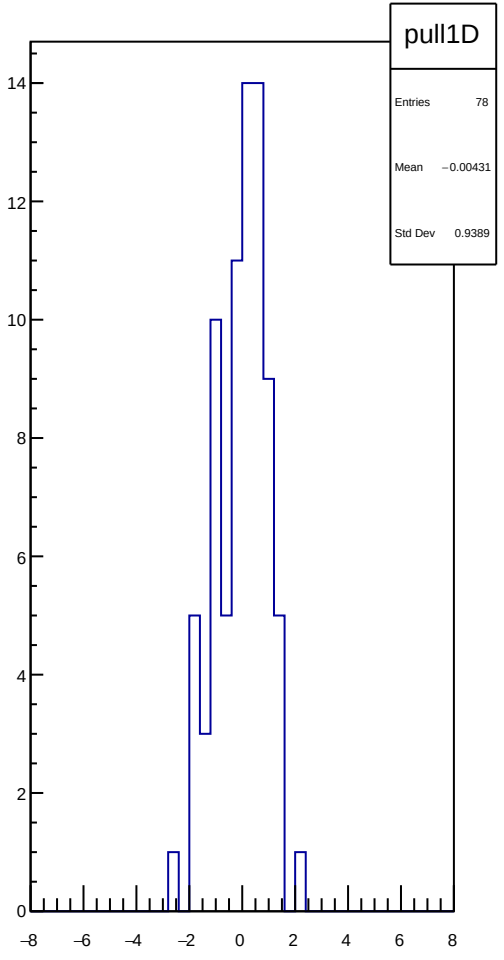

reg_asym_atr_avg_rms vs run
χ^2 / ndf 8153 / 77
p0 1854 ± 1.484
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

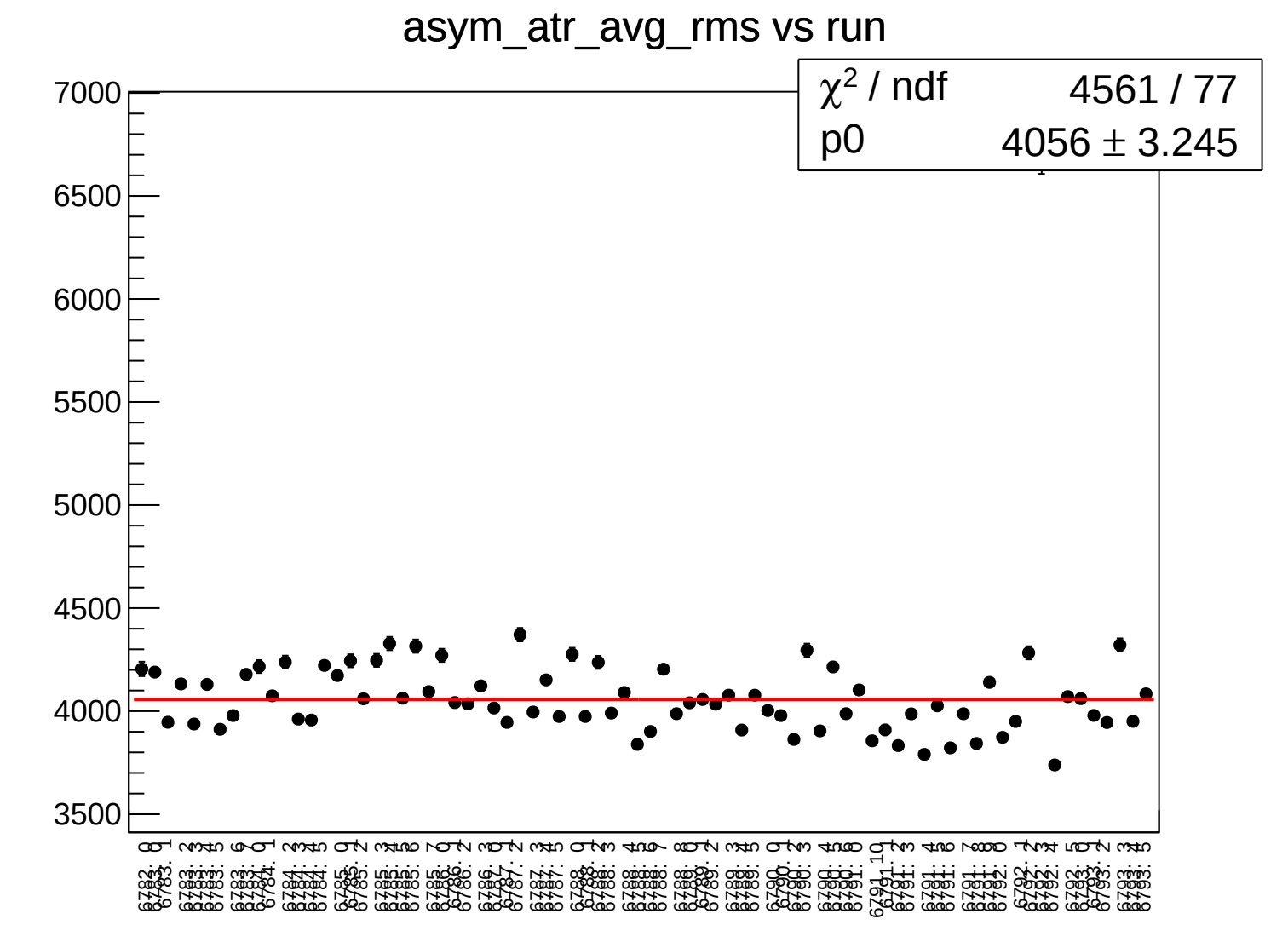

asym_atr_avg_correction_mean vs run
χ² / ndf 63.11 / 77
p0 −1311 ± 4064
×10³
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −142.4
Std Dev 206.9
2
1
0
−1
−2

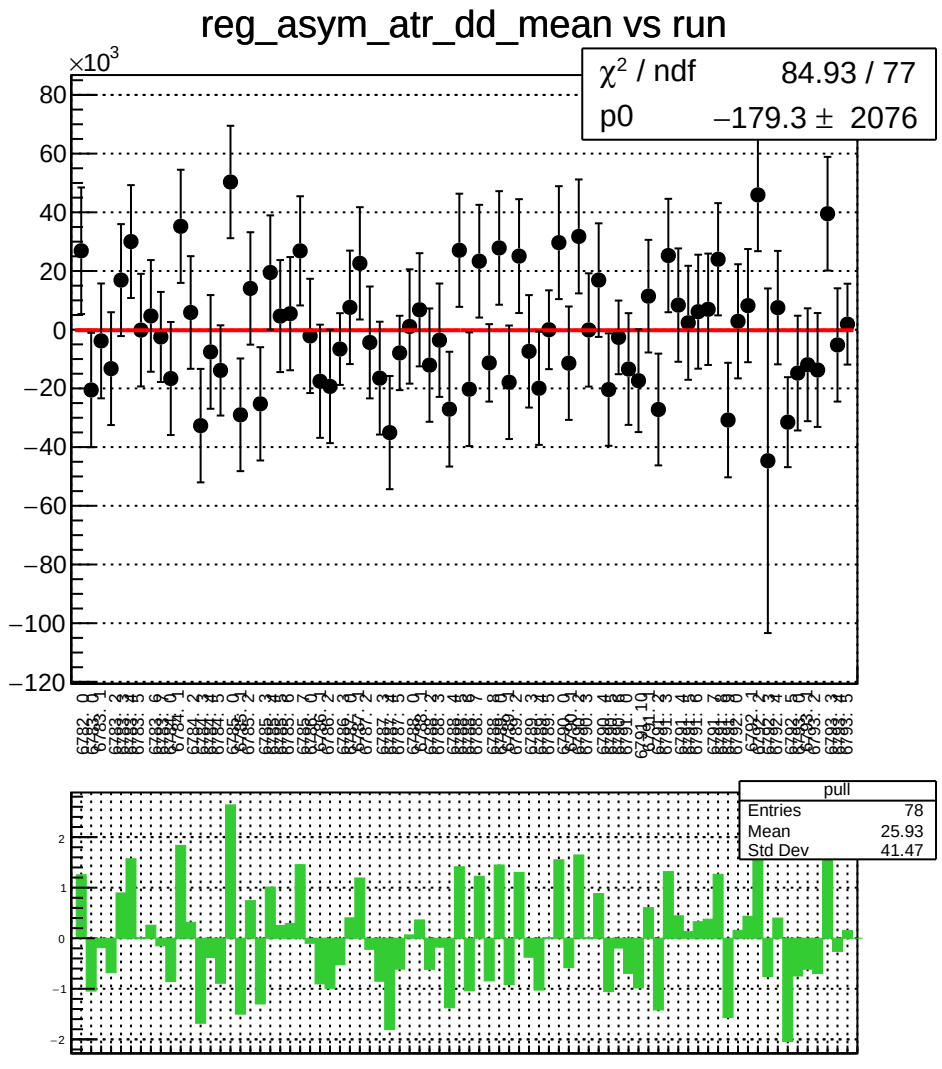

pull1D
Entries 78
Mean −0.004081
Std Dev 0.8995
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

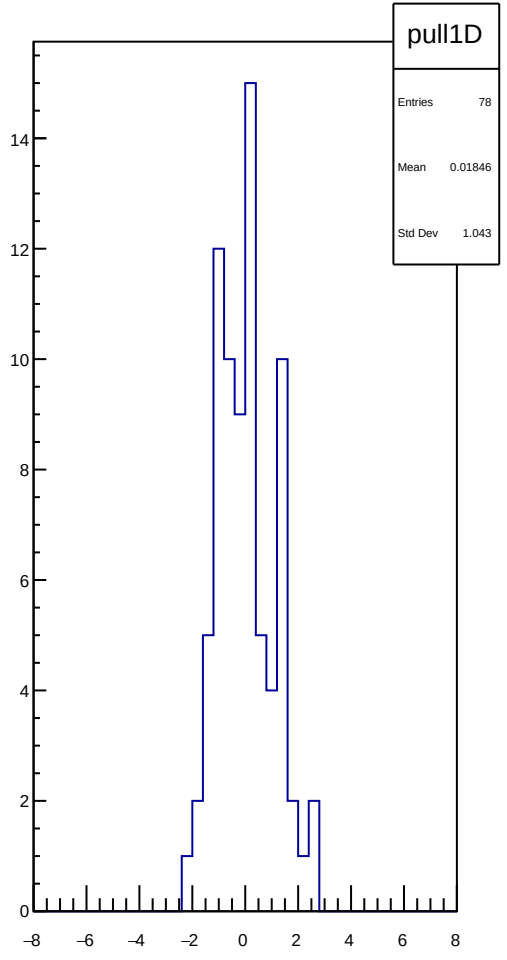

asym_atr_avg_correction_rms vs run
χ² / ndf 2843 / 77
p0 3595 ± 2.874
4000
3900
3800
3700
3600
3500
3400
3300
3200

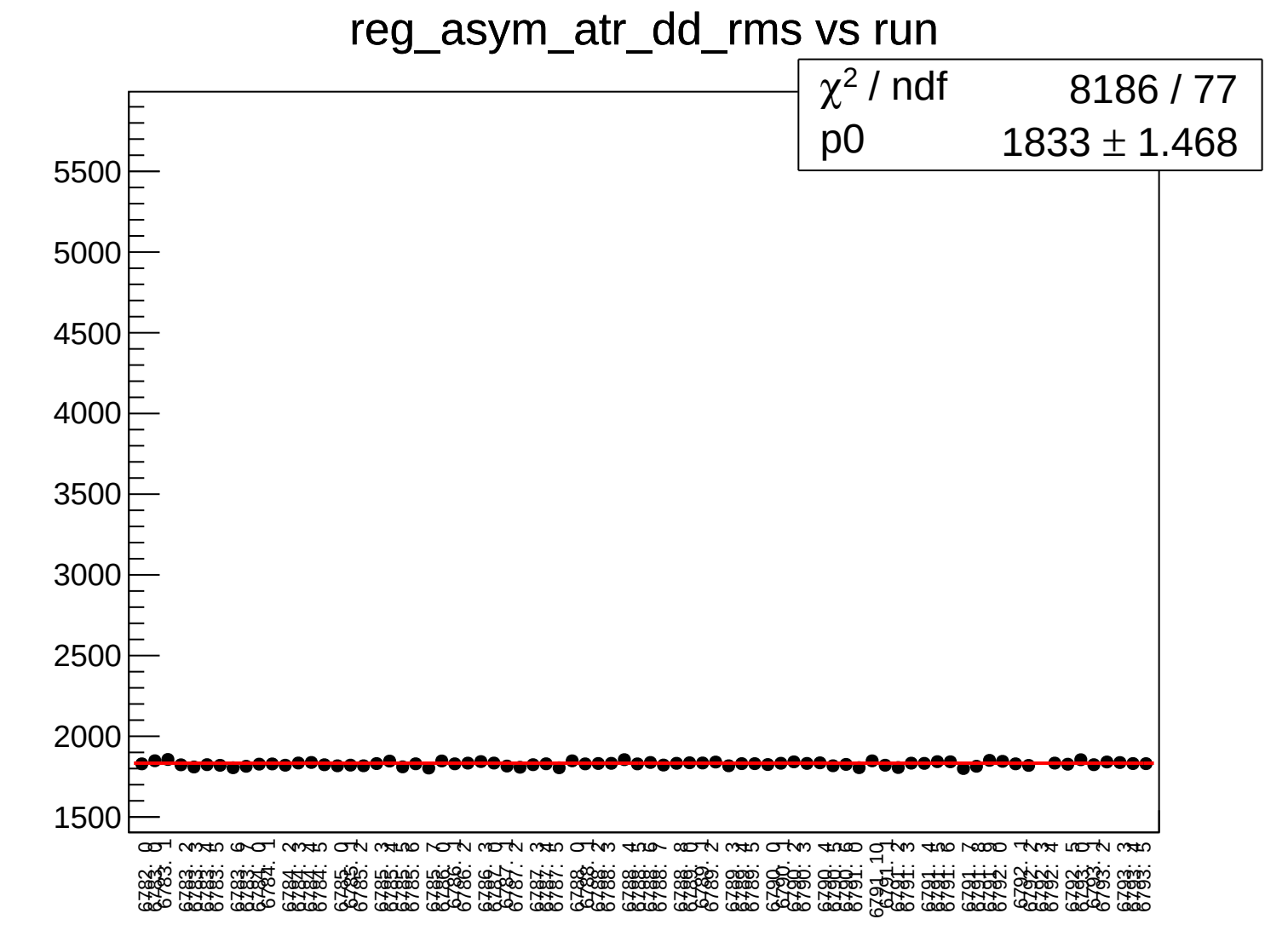

asym_atr_avg_mean vs run
×10^3
χ² / ndf 68.75 / 77
p0 760.6 ± 4589
150
100
50
0
−50
−100
−150
−200
pull
Entries 78
Mean 915.9
Std Dev 865.4
2
1
0
−1
−2

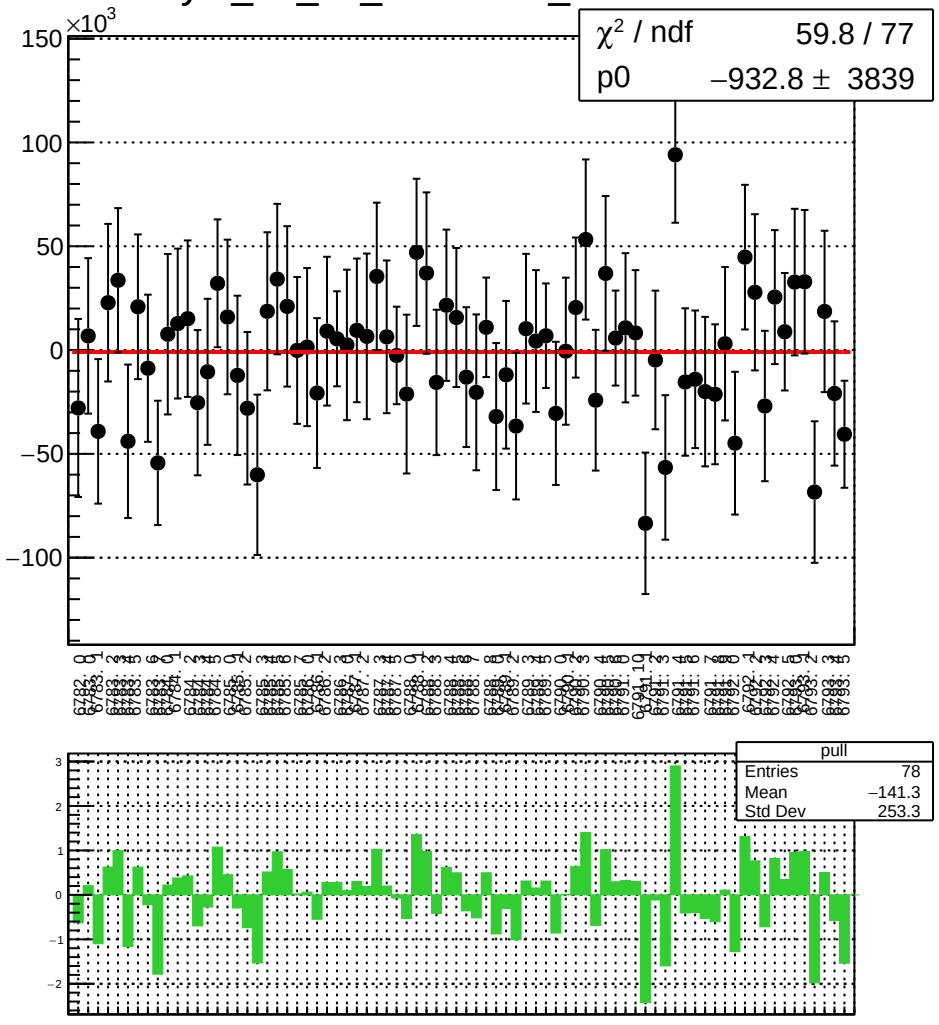

pull1D
Entries 78
Mean −0.00431
Std Dev 0.9389
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

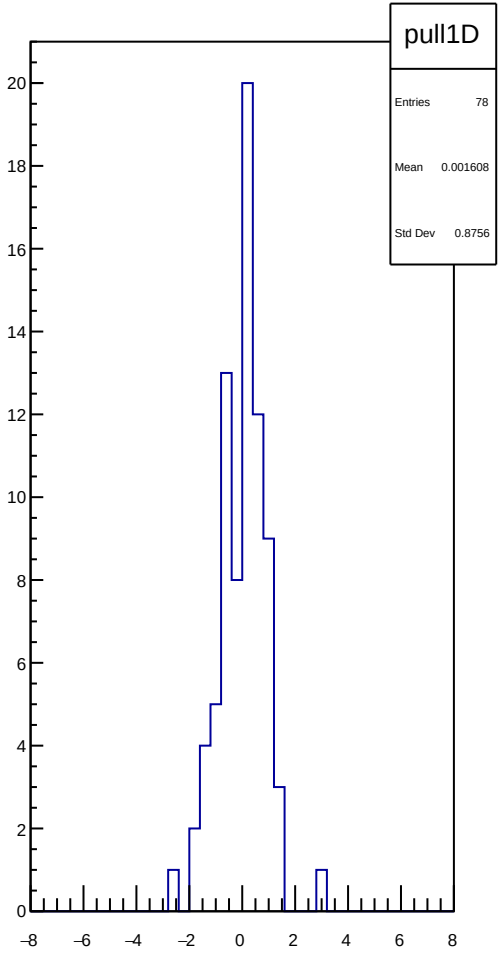

asym_atr_avg_rms vs run
χ² / ndf 4561 / 77
p0 4056 ± 3.245
7000
6500
6000
5500
5000
4500
4000
3500

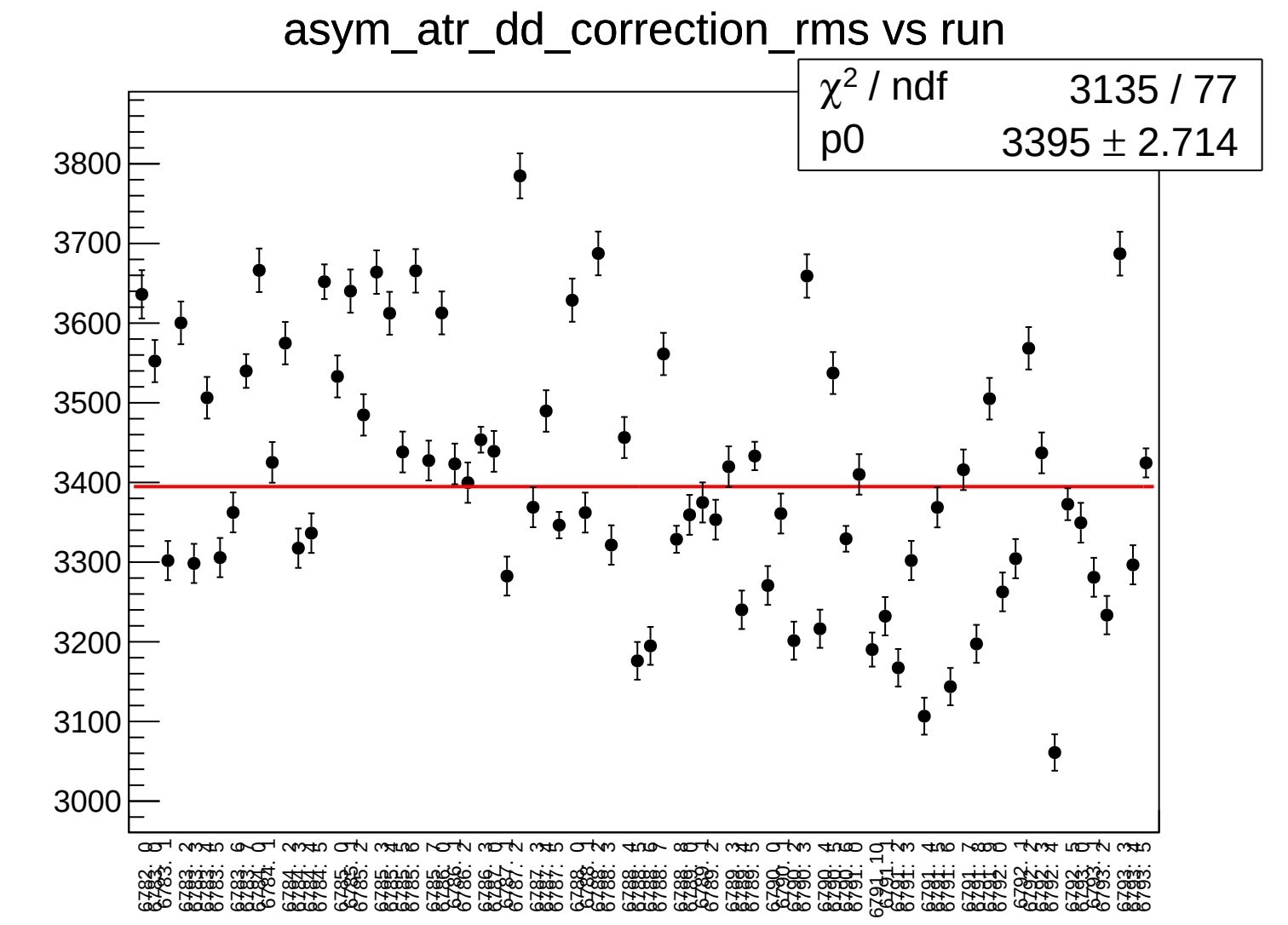

reg_asym_atr_dd_mean vs run
×10^3
χ² / ndf 84.93 / 77
p0 −179.3 ± 2076
pull
Entries 78
Mean 25.93
Std Dev 41.47

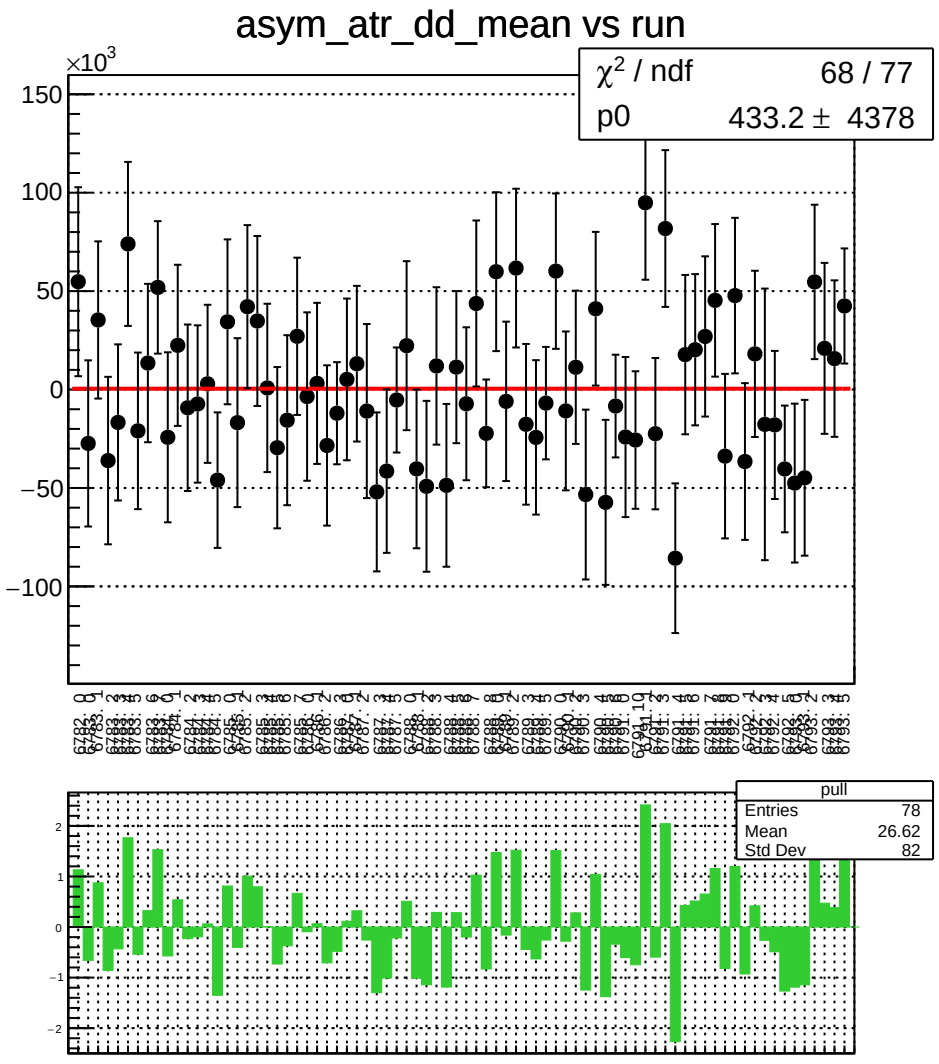

pull1D
Entries 78
Mean 0.01846
Std Dev 1.043

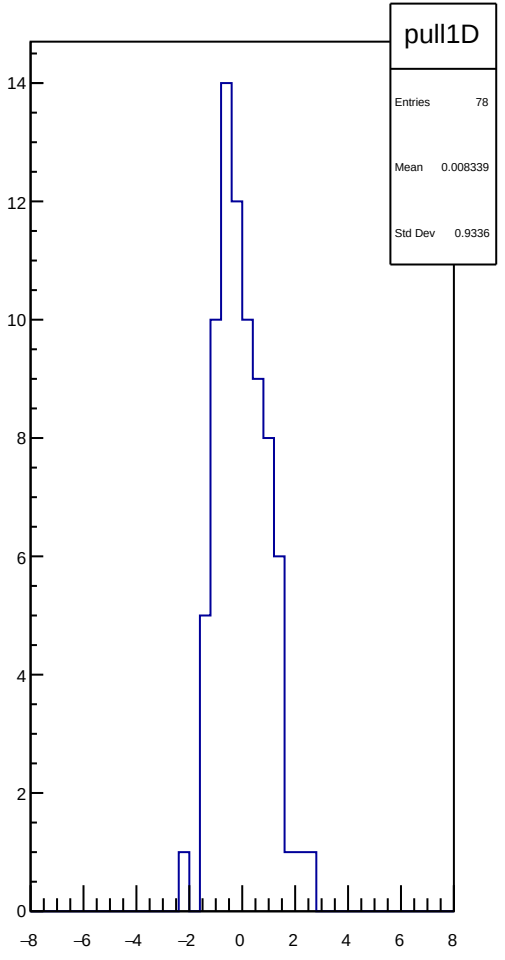

reg_asym_atr_dd_rms vs run
χ^2 / ndf 8186 / 77
p0 1833 ± 1.468
5500
5000
4500
4000
3500
3000
2500
2000
1500

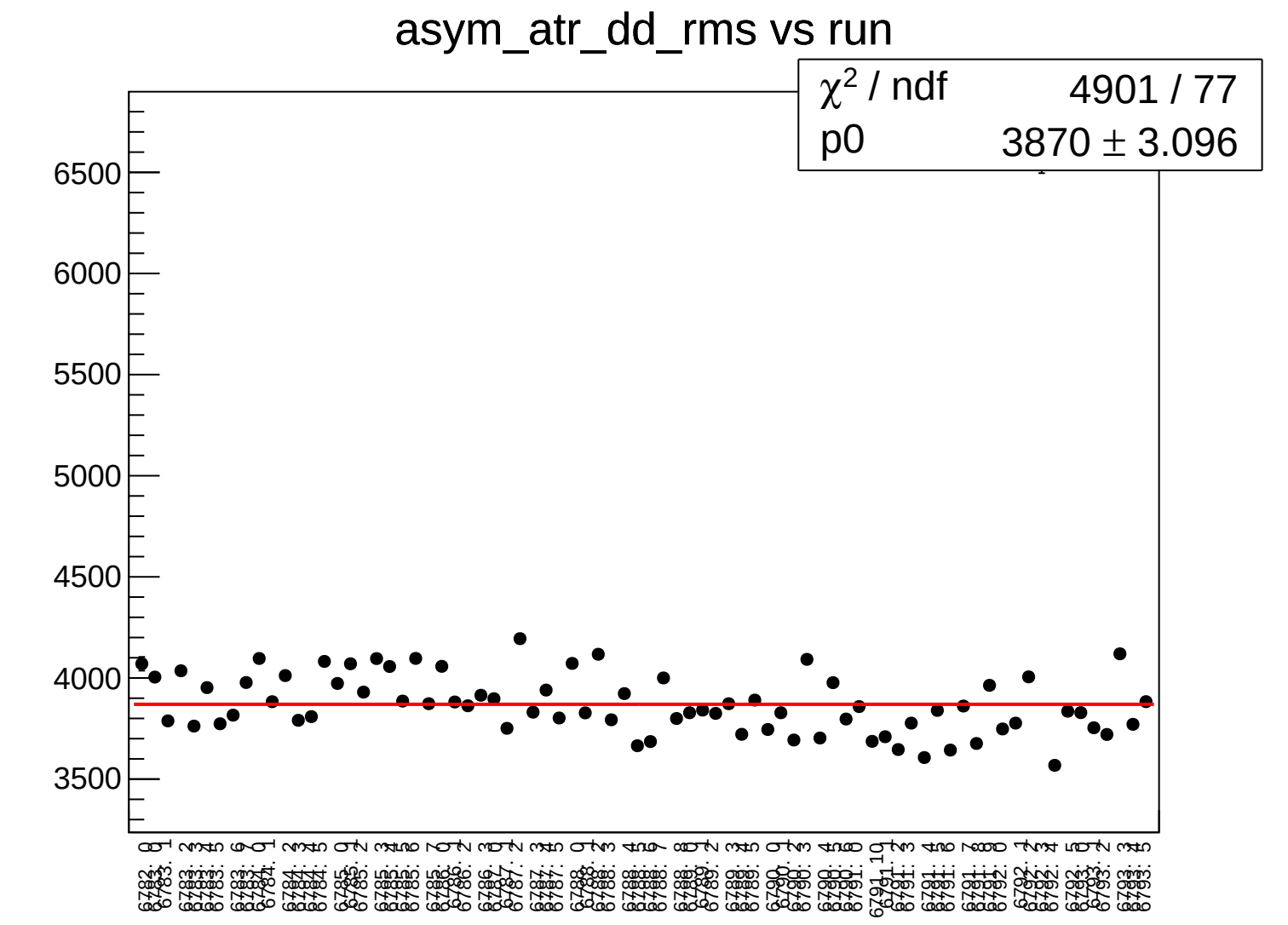

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 59.8 / 77
p0 −932.8 ± 3839
pull
Entries 78
Mean −141.3
Std Dev 253.3

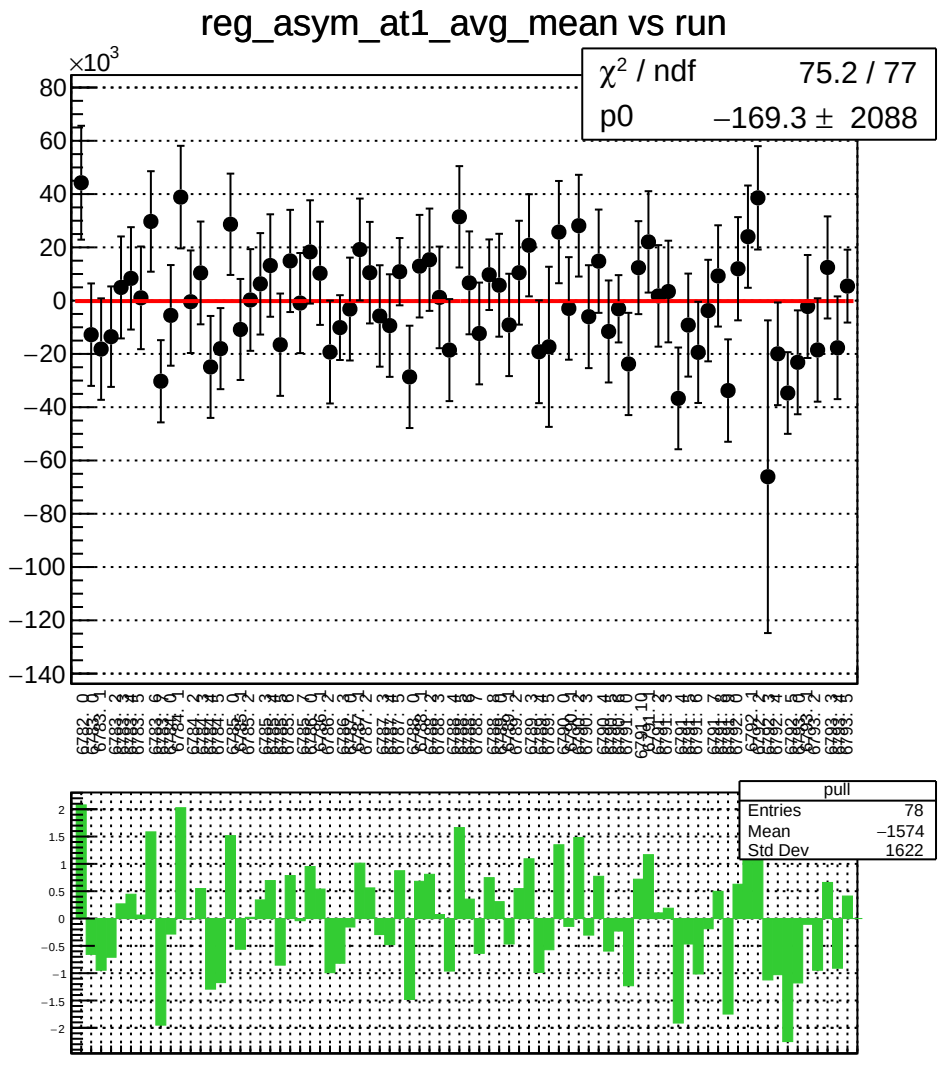

pull1D
Entries 78
Mean 0.001608
Std Dev 0.8756

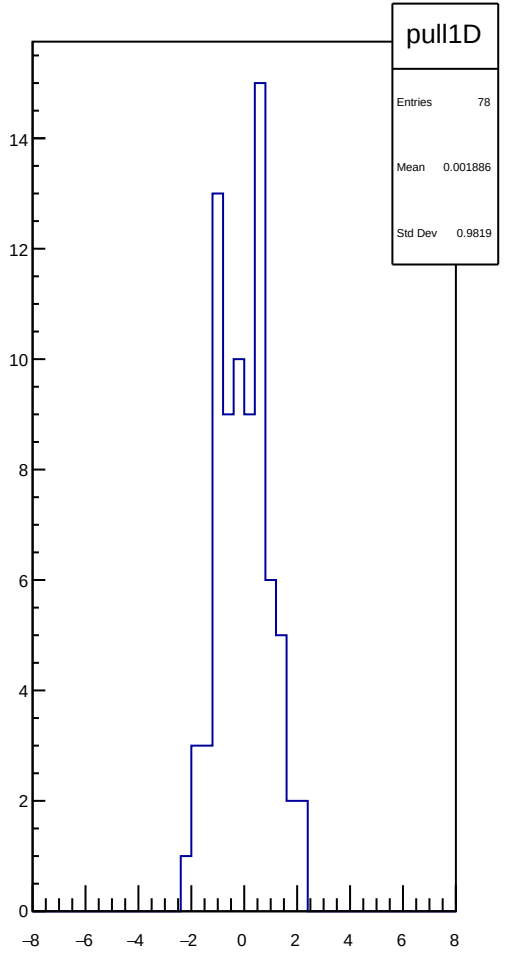

asym_atr_dd_correction_rms vs run
χ² / ndf 3135 / 77
p0 3395 ± 2.714
3800
3700
3600
3500
3400
3300
3200
3100
3000

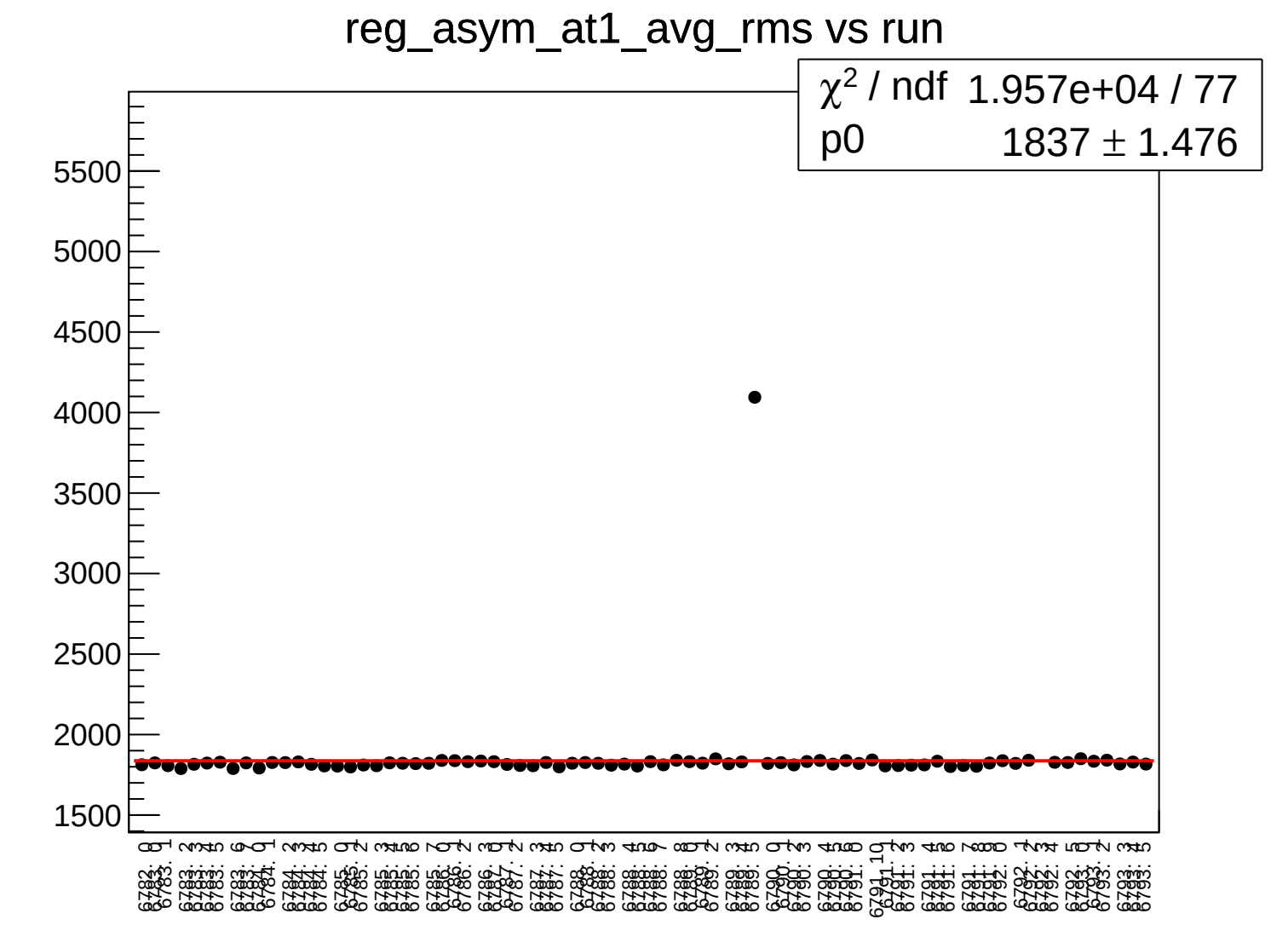

asym_atr_dd_mean vs run
×10^3
χ² / ndf 68 / 77
p0 433.2 ± 4378
150
100
50
0
−50
−100
pull
Entries 78
Mean 26.62
Std Dev 82
2
1
0
−1
−2

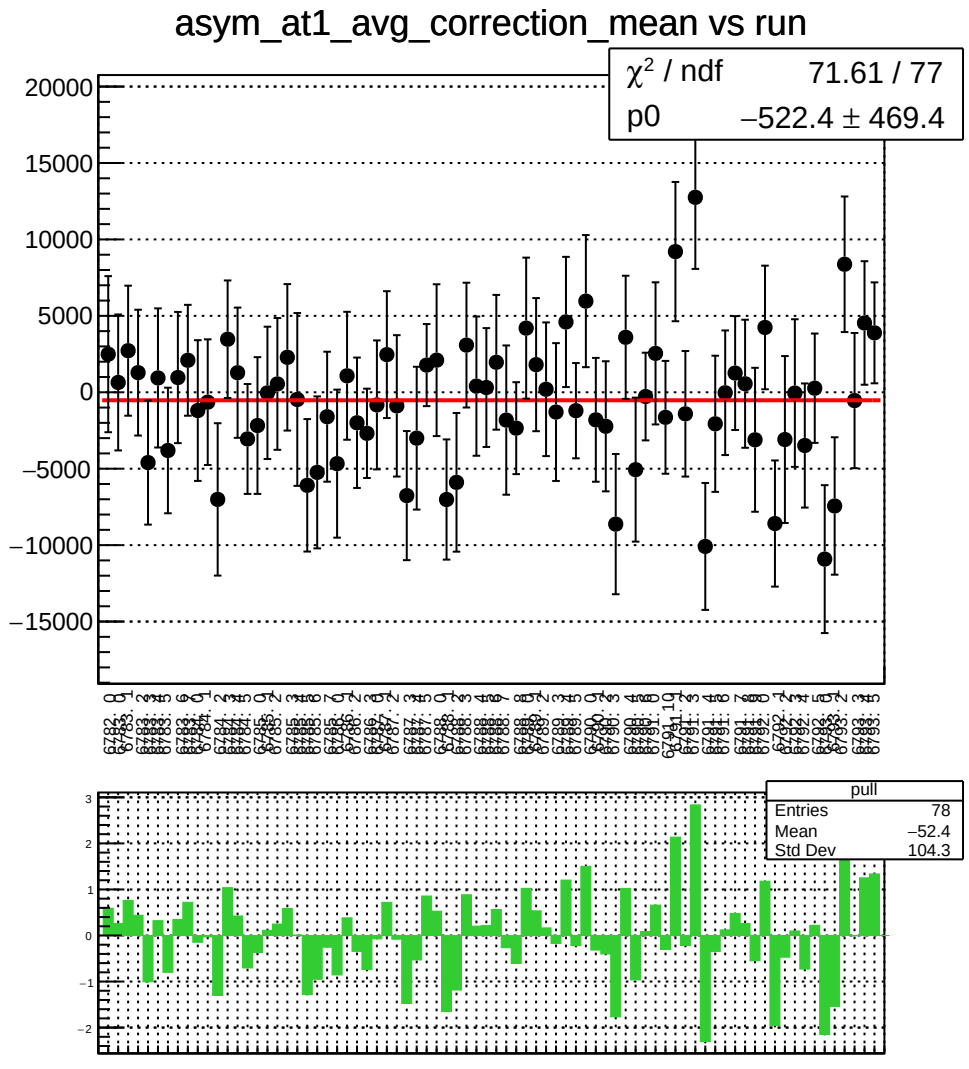

pull1D
Entries 78
Mean 0.008339
Std Dev 0.9336
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

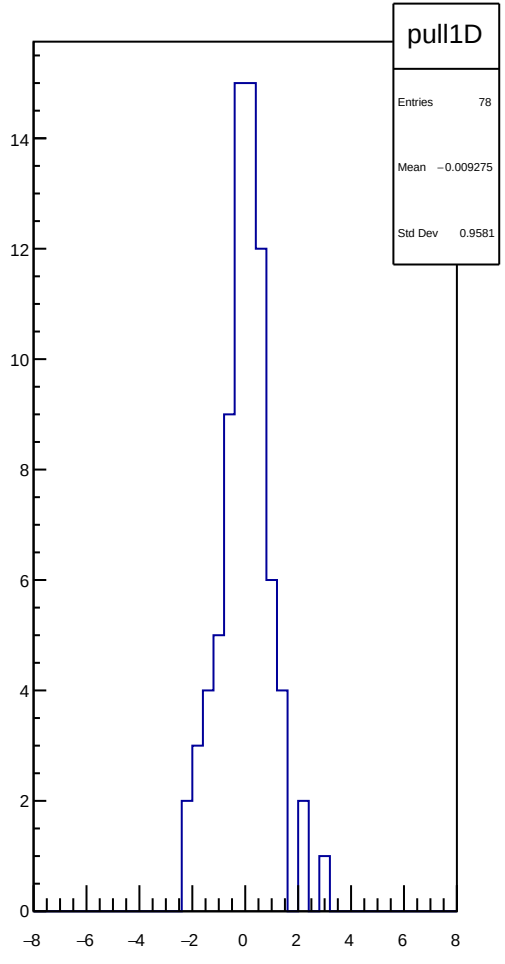

asym_atr_dd_rms vs run
χ^2 / ndf 4901 / 77
p0 3870 ± 3.096
6500
6000
5500
5000
4500
4000
3500

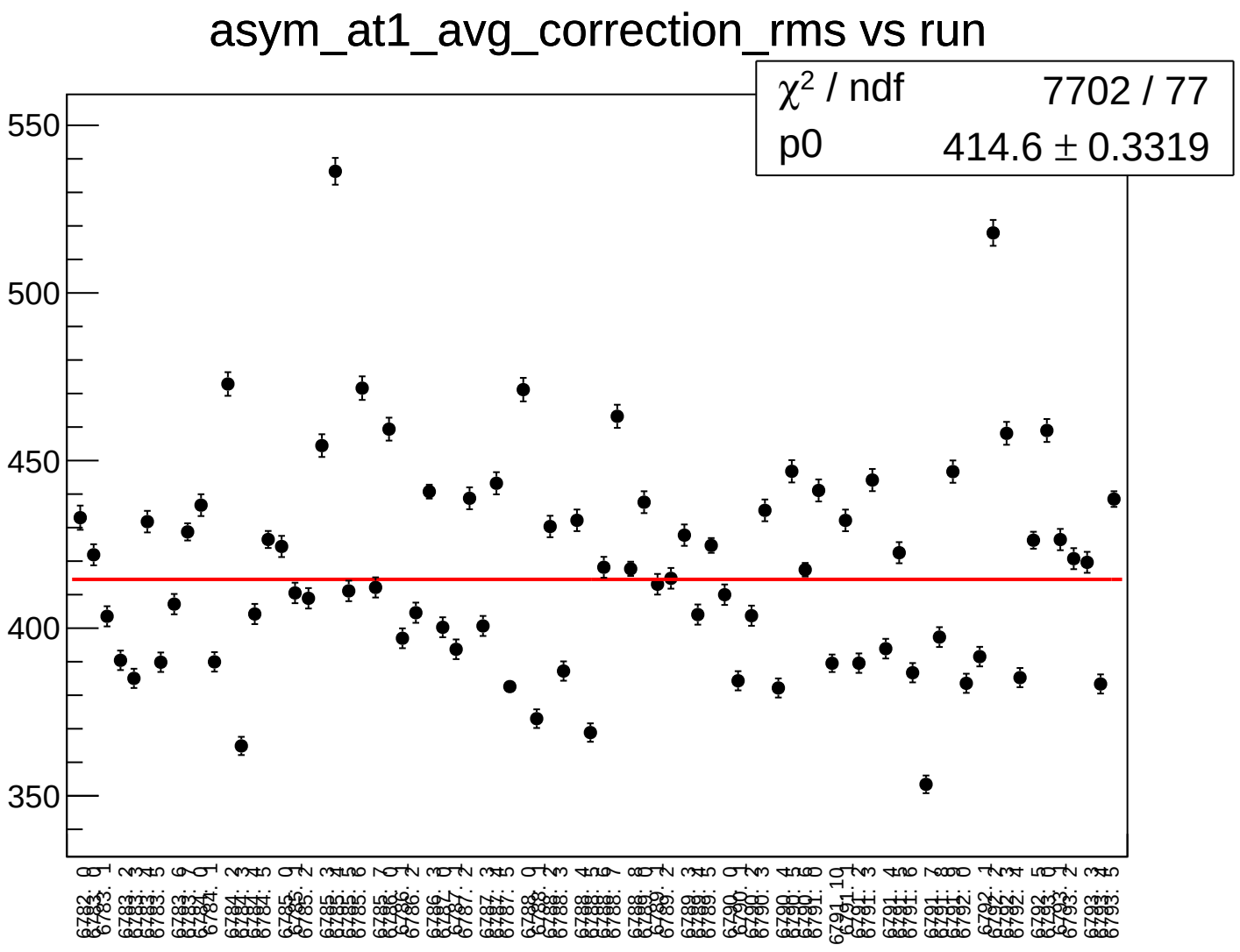

reg_asym_at1_avg_mean vs run
×10^3
χ² / ndf 75.2 / 77
p0 −169.3 ± 2088
pull
Entries 78
Mean −1574
Std Dev 1622

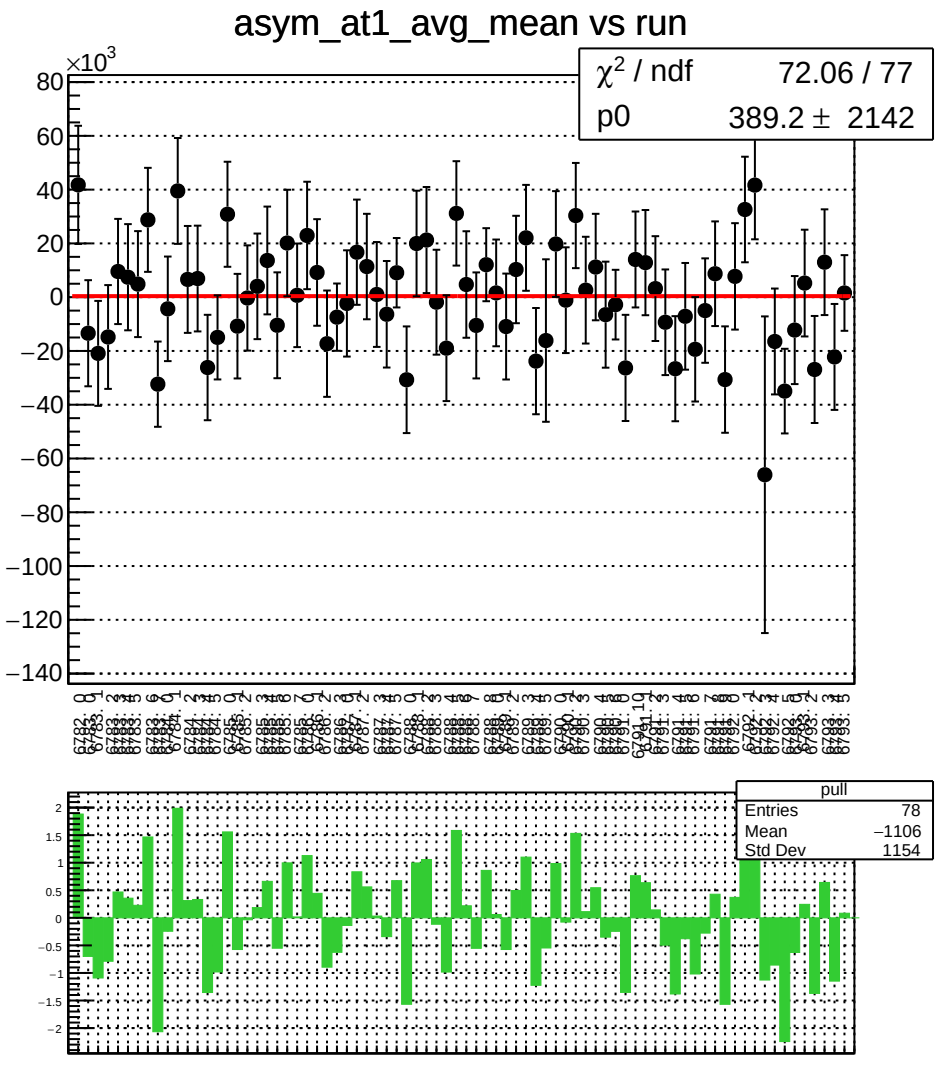

pull1D
Entries 78
Mean 0.001886
Std Dev 0.9819

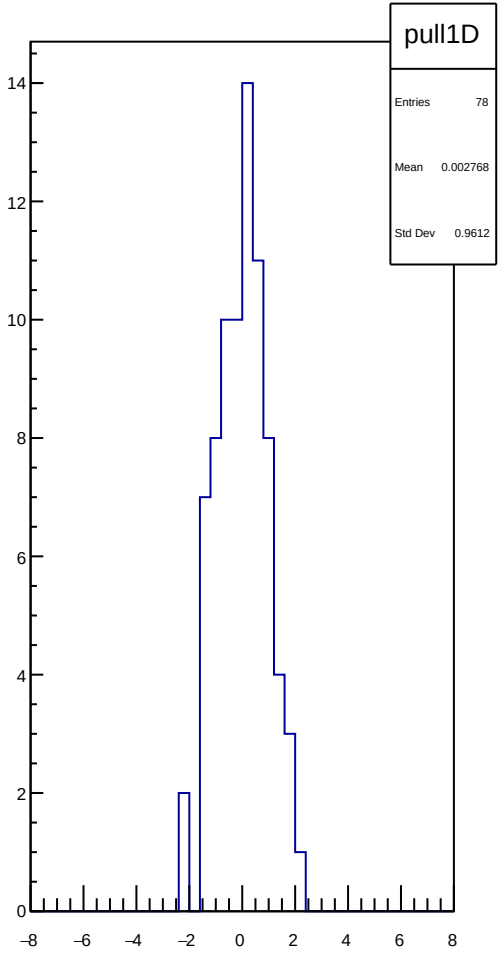

reg_asym_at1_avg_rms vs run
χ^2 / ndf 1.957e+04 / 77
p0 1837 ± 1.476
5500
5000
4500
4000
3500
3000
2500
2000
1500

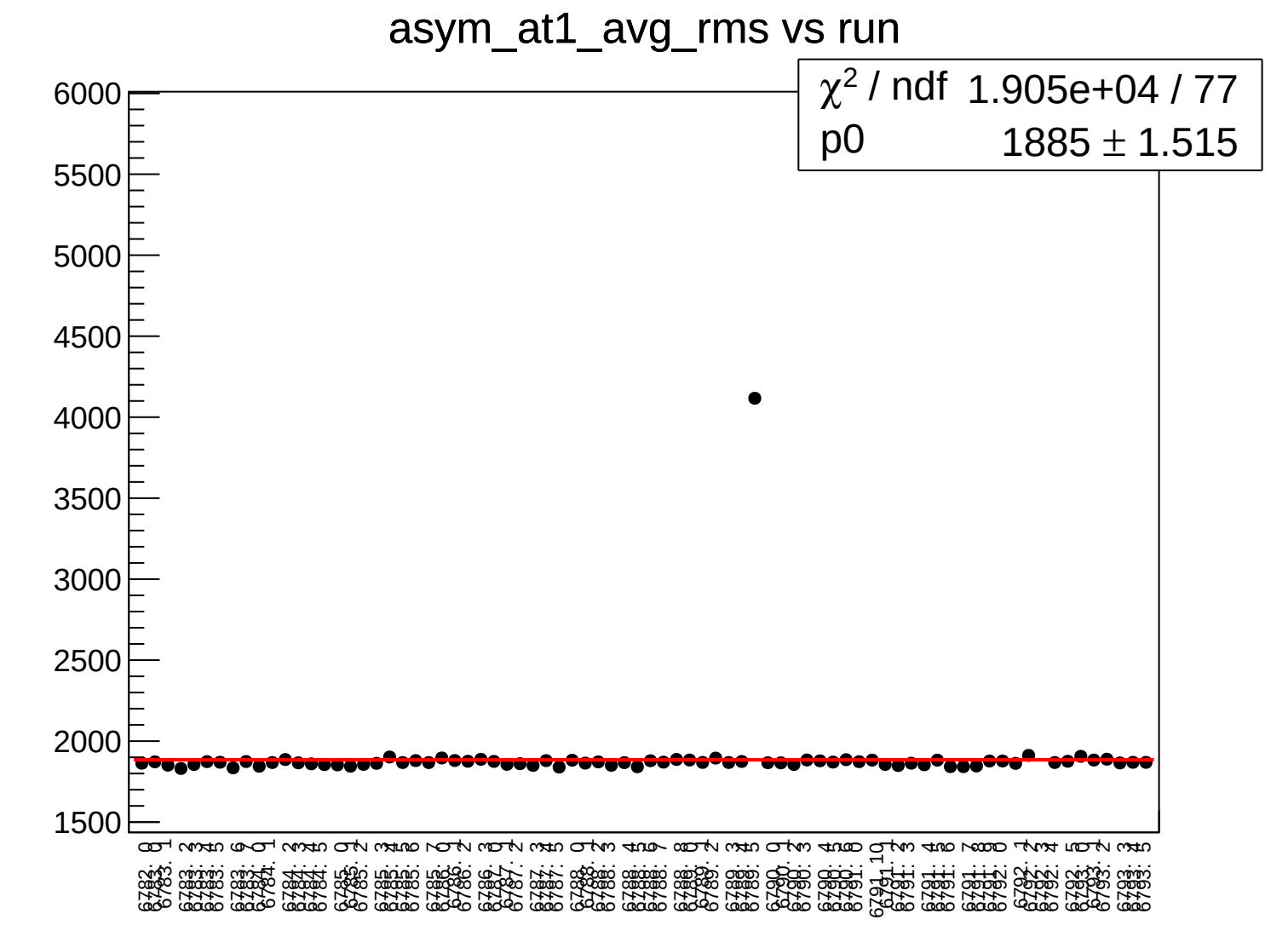

asym_at1_avg_correction_mean vs run
χ² / ndf 71.61 / 77
p0 −522.4 ± 469.4
pull
Entries 78
Mean −52.4
Std Dev 104.3

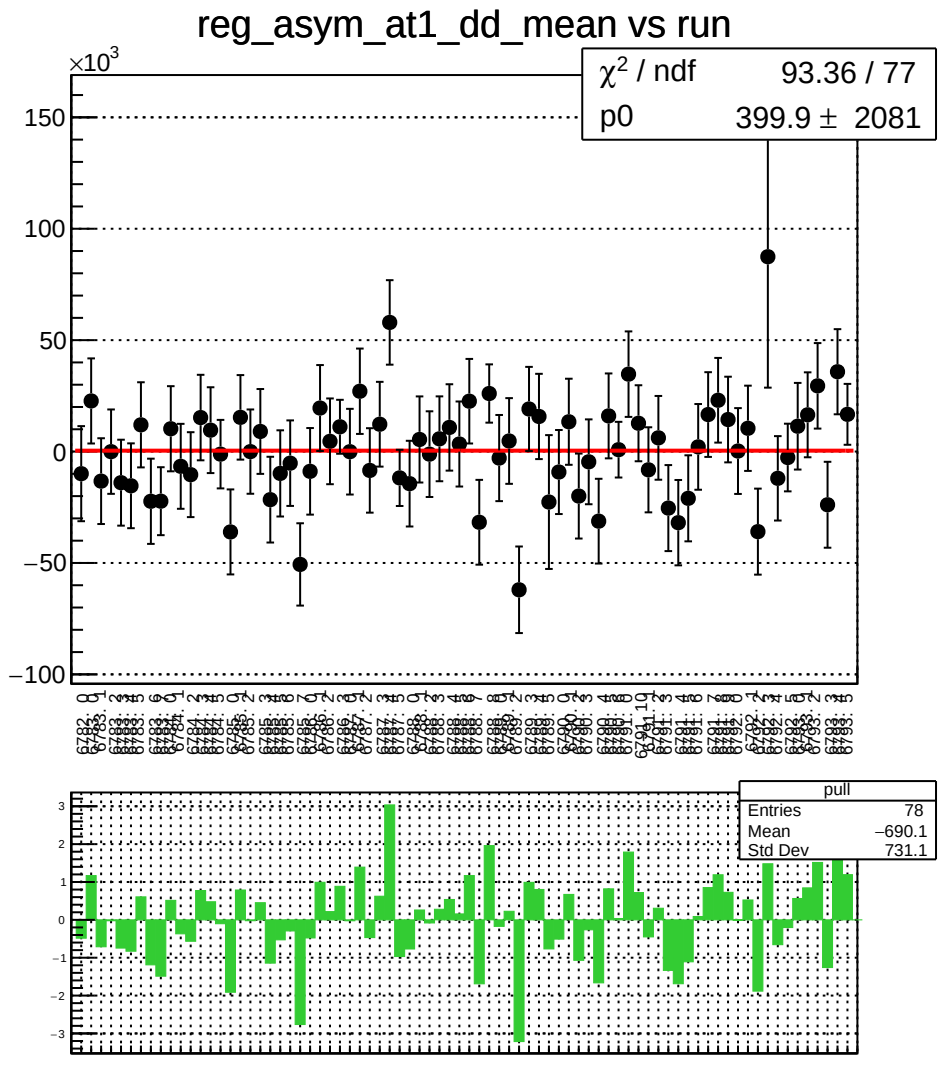

pull1D
Entries 78
Mean −0.009275
Std Dev 0.9581

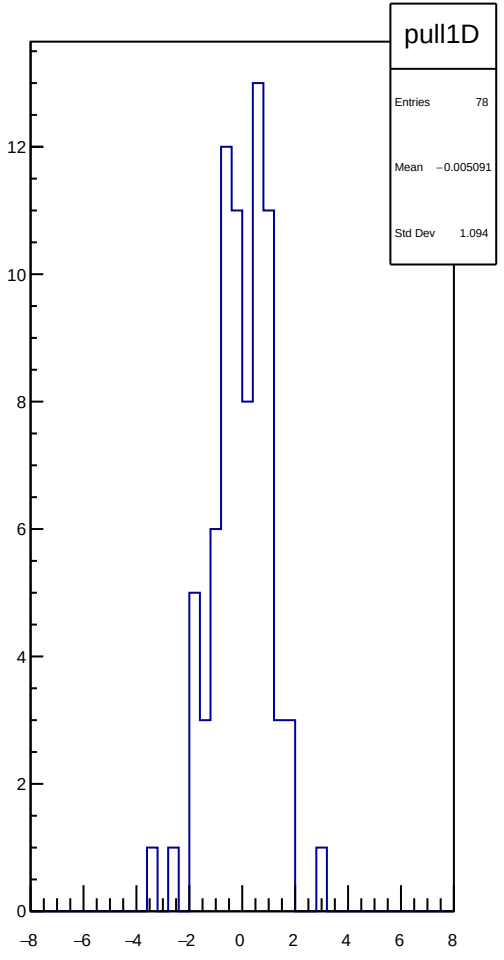

asym_at1_avg_correction_rms vs run
χ² / ndf 7702 / 77
p0 414.6 ± 0.3319
550
500
450
400
350

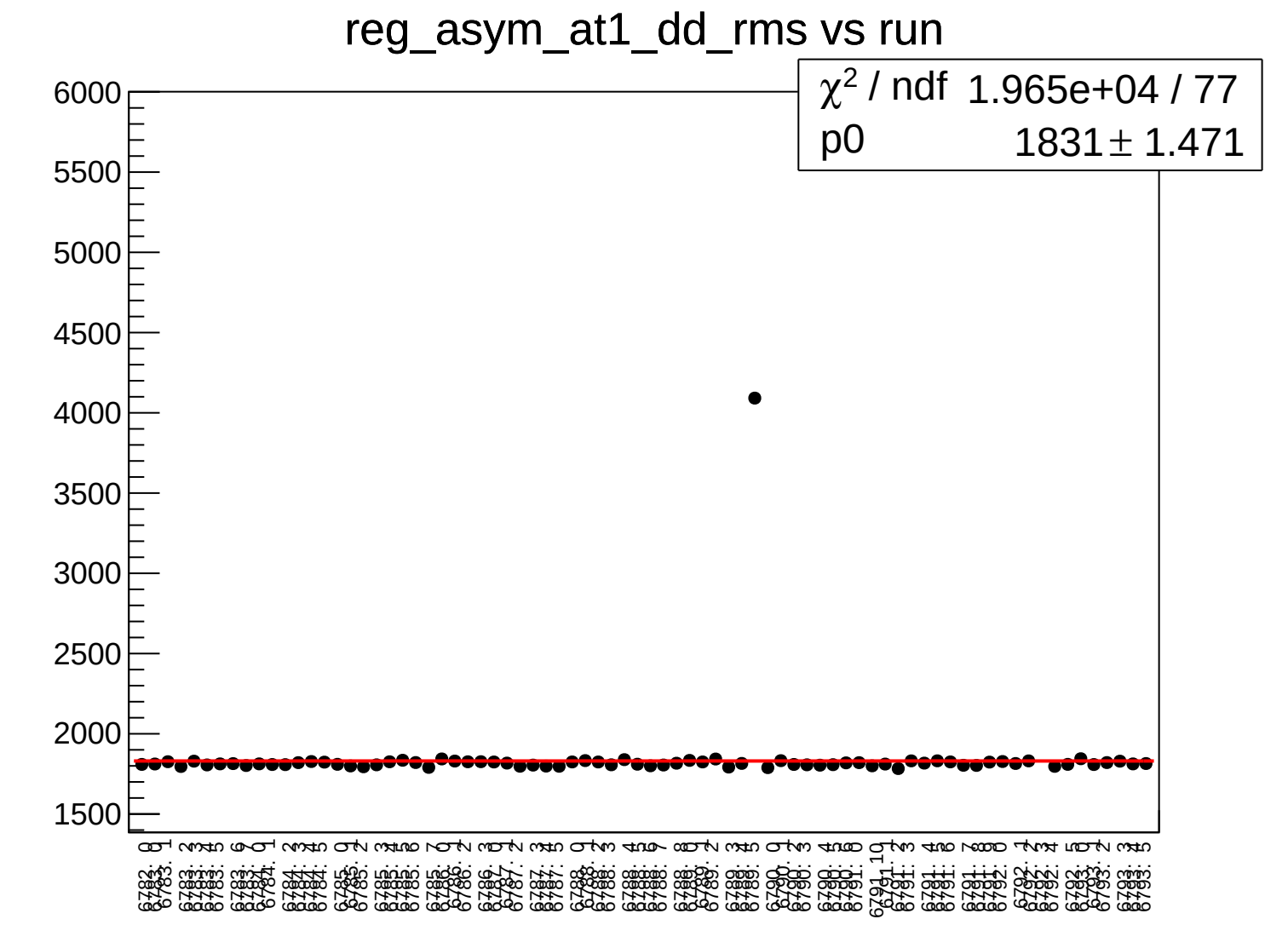

asym_at1_avg_mean vs run
χ² / ndf 72.06 / 77
p0 389.2 ± 2142
×10³
pull
Entries 78
Mean −1106
Std Dev 1154

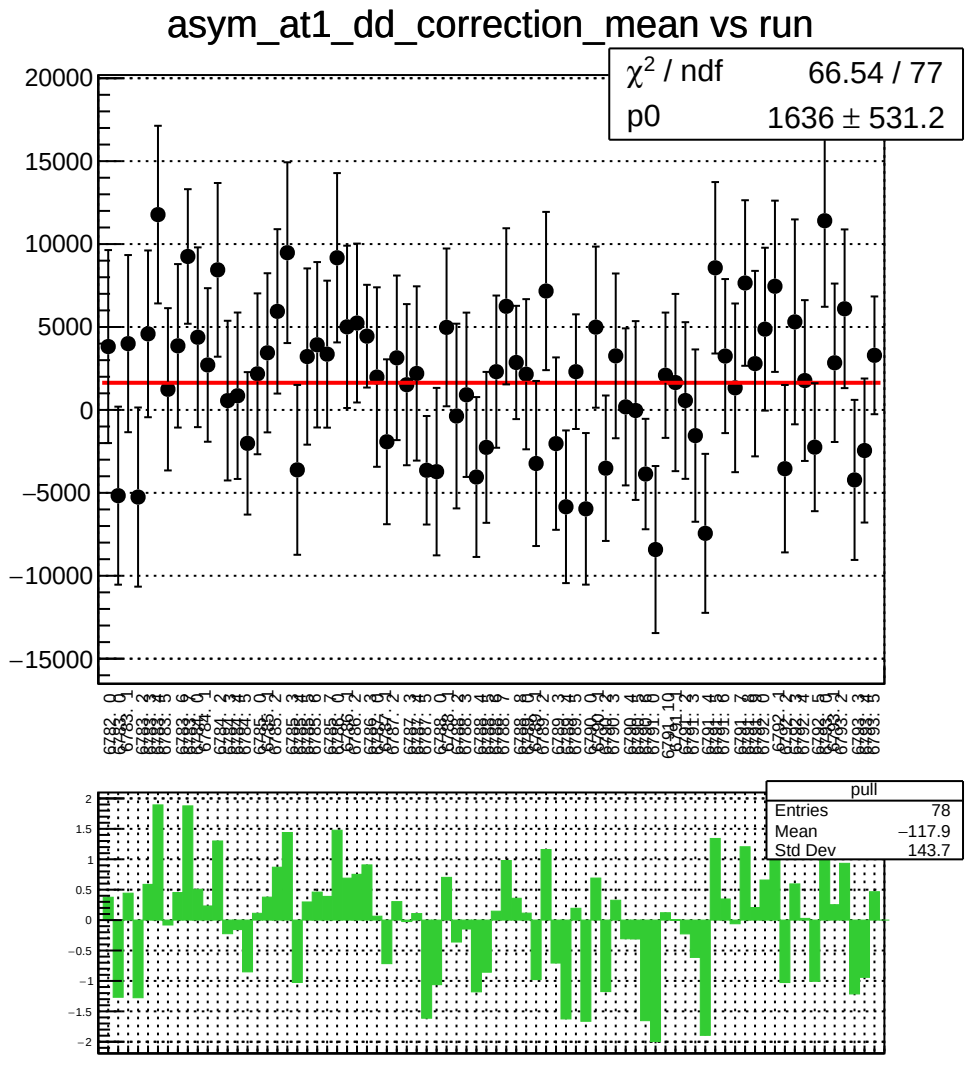

pull1D
Entries 78
Mean 0.002768
Std Dev 0.9612

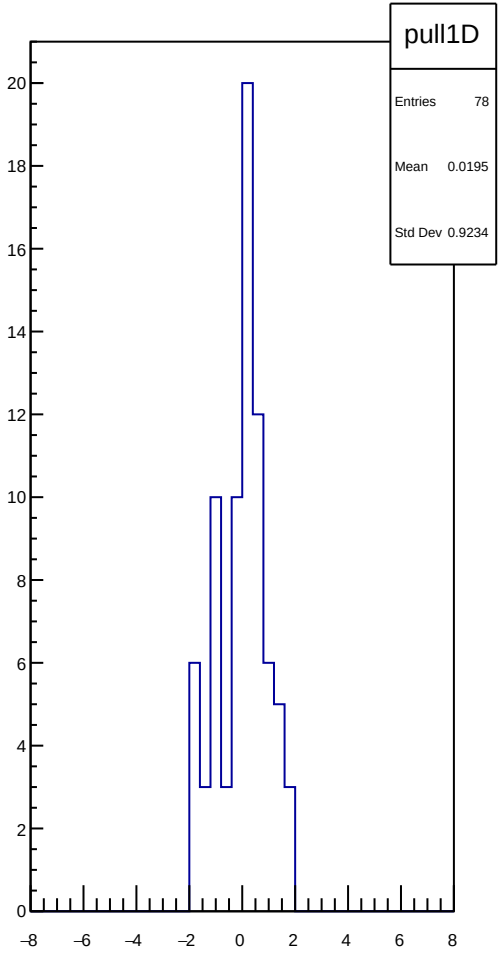

asym_at1_avg_rms vs run
χ^2 / ndf 1.905e+04 / 77
p0 1885 ± 1.515
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

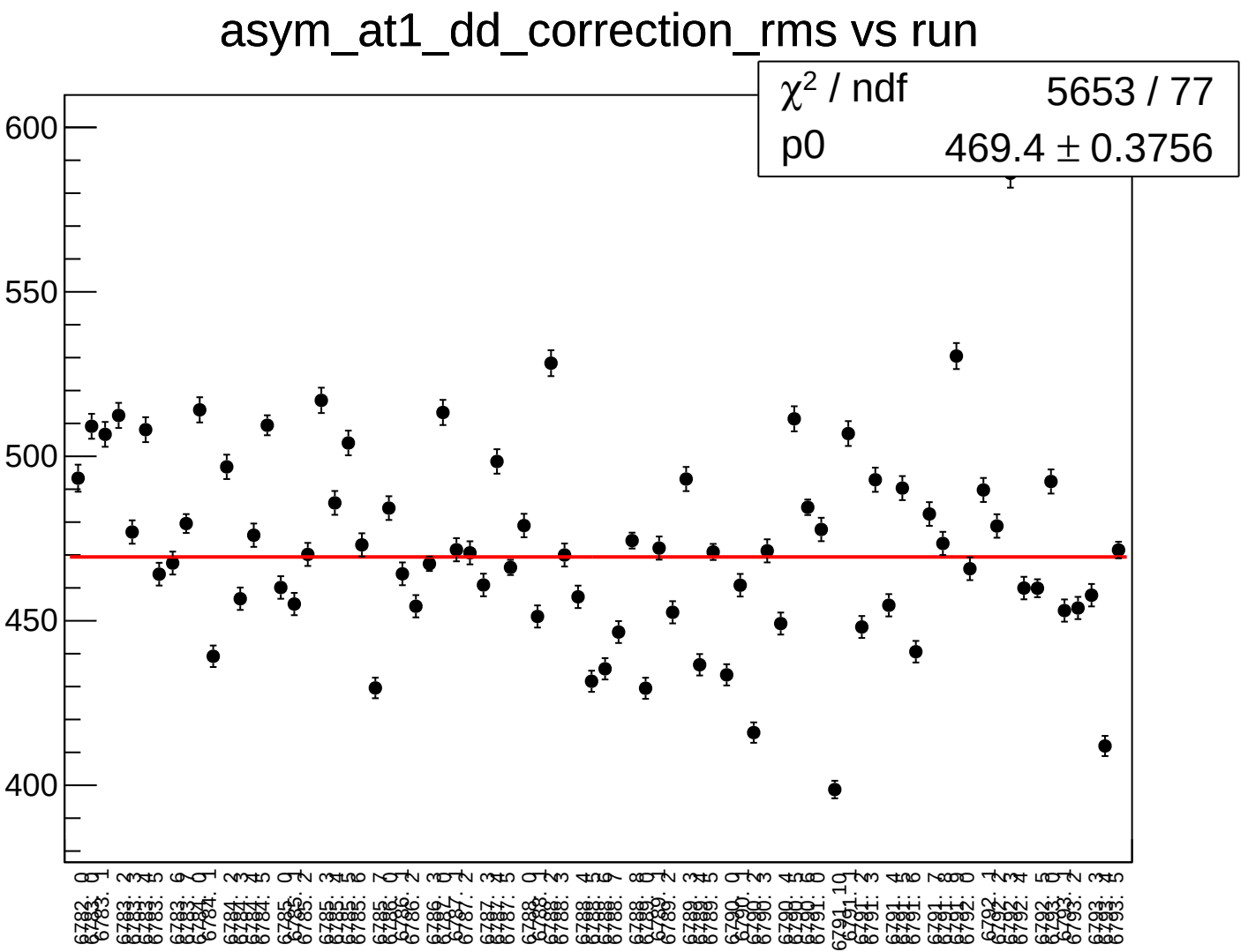

reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 93.36 / 77
p0 399.9 ± 2081
150
100
50
0
−50
−100
pull
Entries 78
Mean −690.1
Std Dev 731.1
3
2
1
0
−1
−2
−3

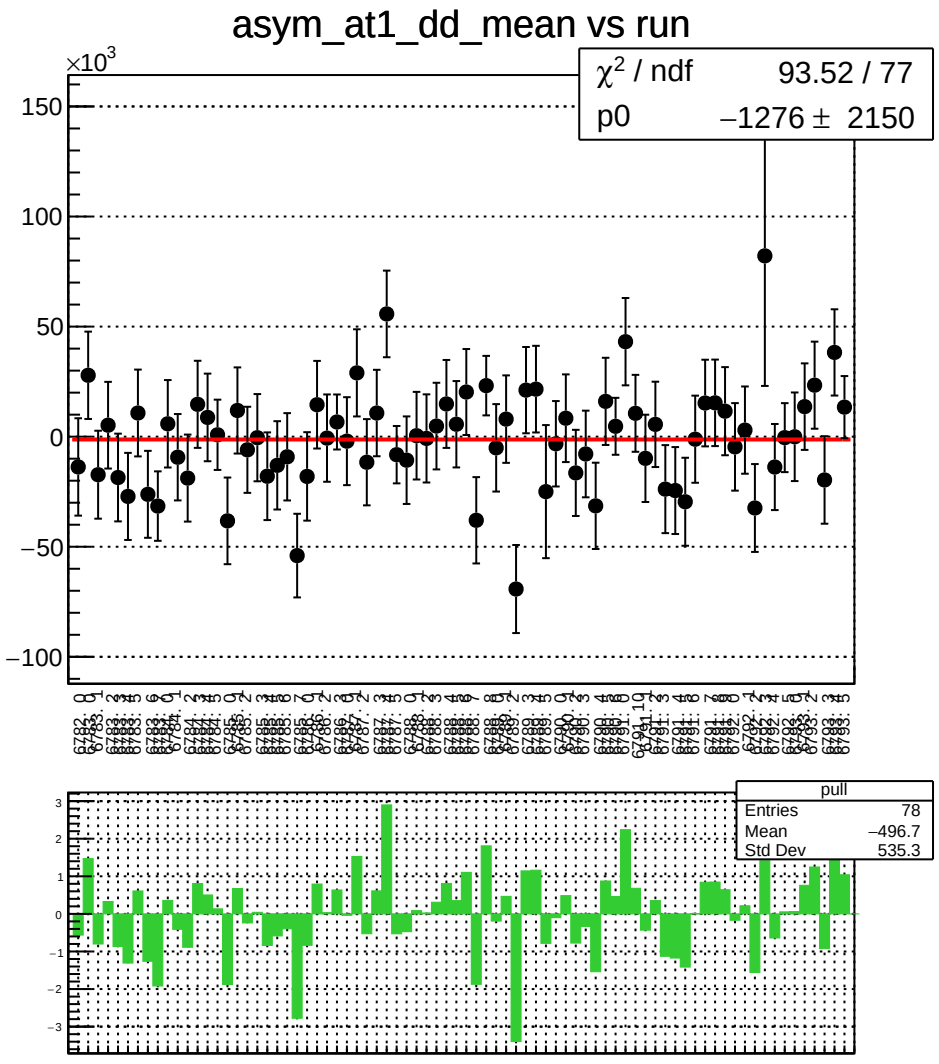

pull1D
Entries 78
Mean −0.005091
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

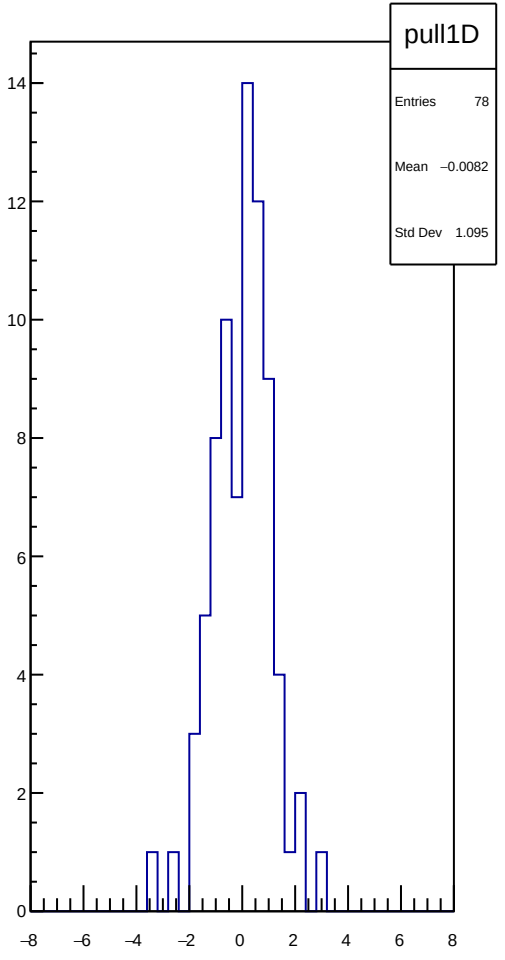

reg_asym_at1_dd_rms vs run
χ^2 / ndf 1.965e+04 / 77
p0 1831 ± 1.471
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

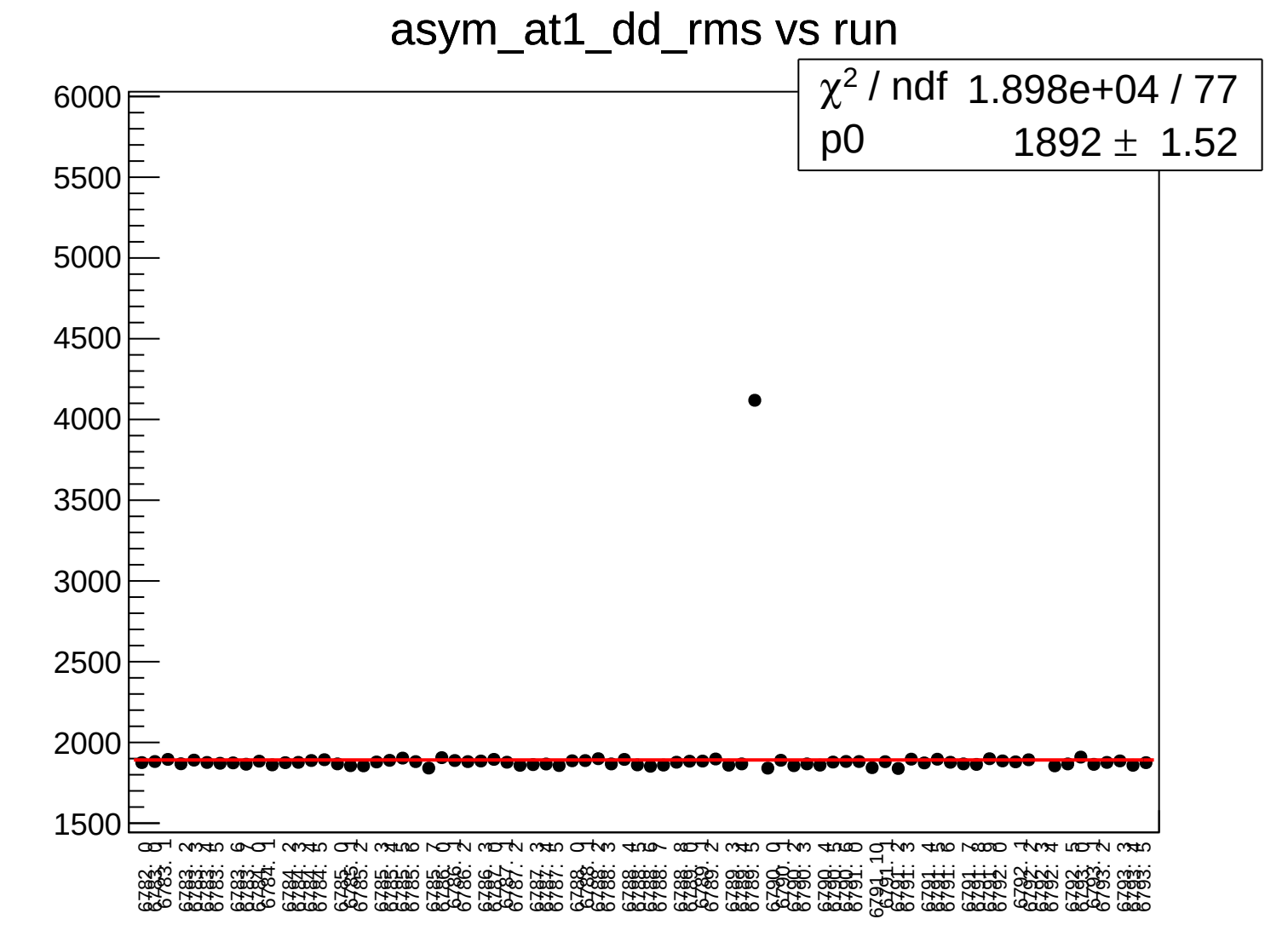

asym_at1_dd_correction_mean vs run
χ² / ndf 66.54 / 77
p0 1636 ± 531.2
pull
Entries 78
Mean −117.9
Std Dev 143.7

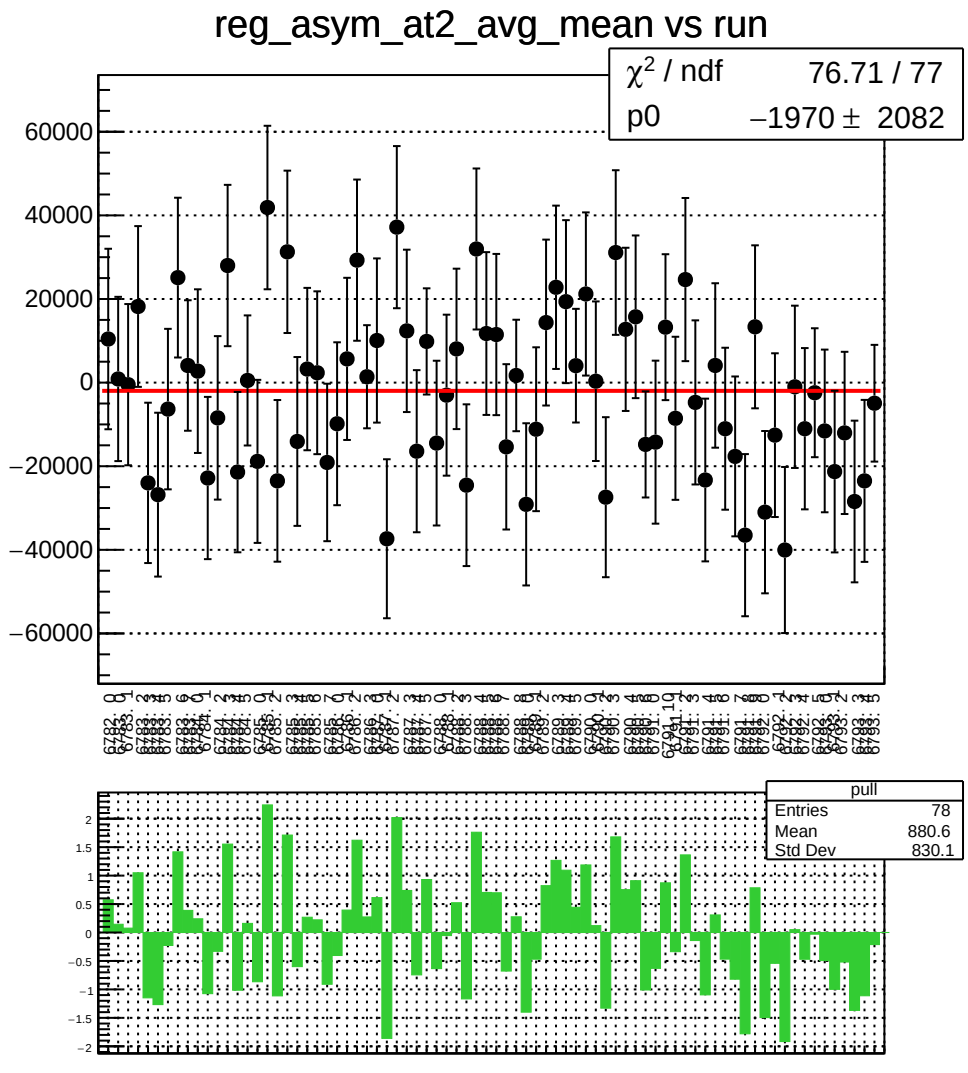

pull1D
Entries 78
Mean 0.0195
Std Dev 0.9234

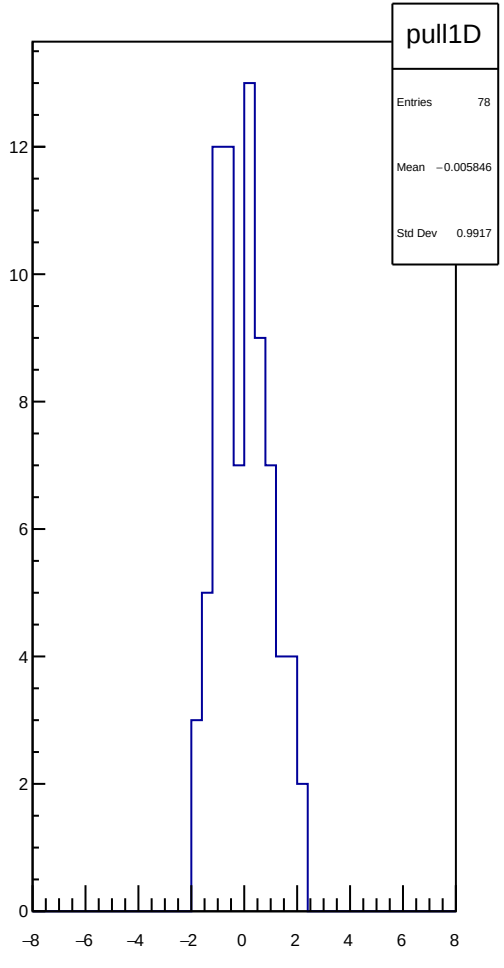

asym_at1_dd_correction_rms vs run
χ² / ndf 5653 / 77
p0 469.4 ± 0.3756
600
550
500
450
400

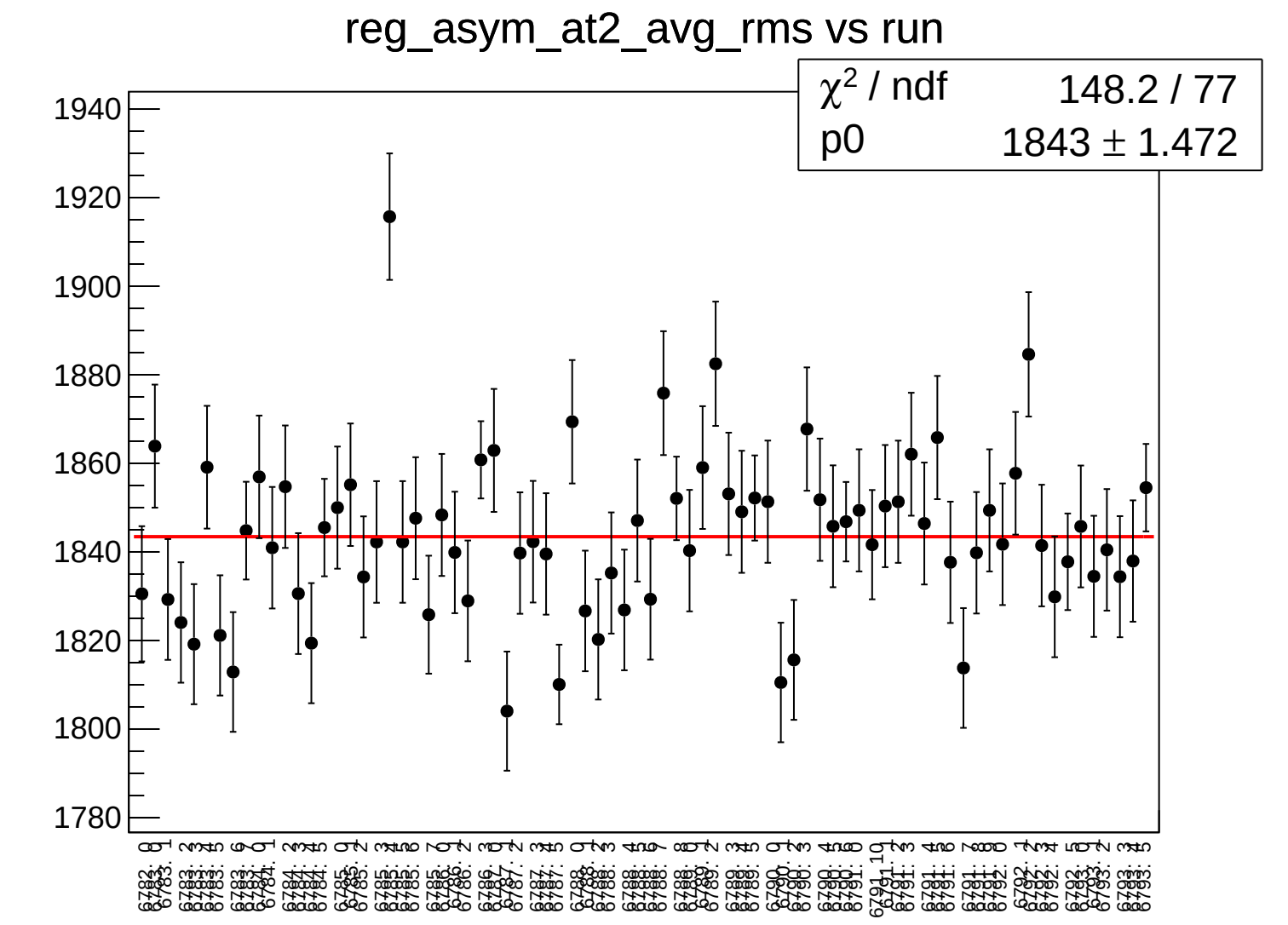

asym_at1_dd_mean vs run
×10^3
χ² / ndf 93.52 / 77
p0 −1276 ± 2150
150
100
50
0
−50
−100
pull
Entries 78
Mean −496.7
Std Dev 535.3
3
2
1
0
−1
−2
−3

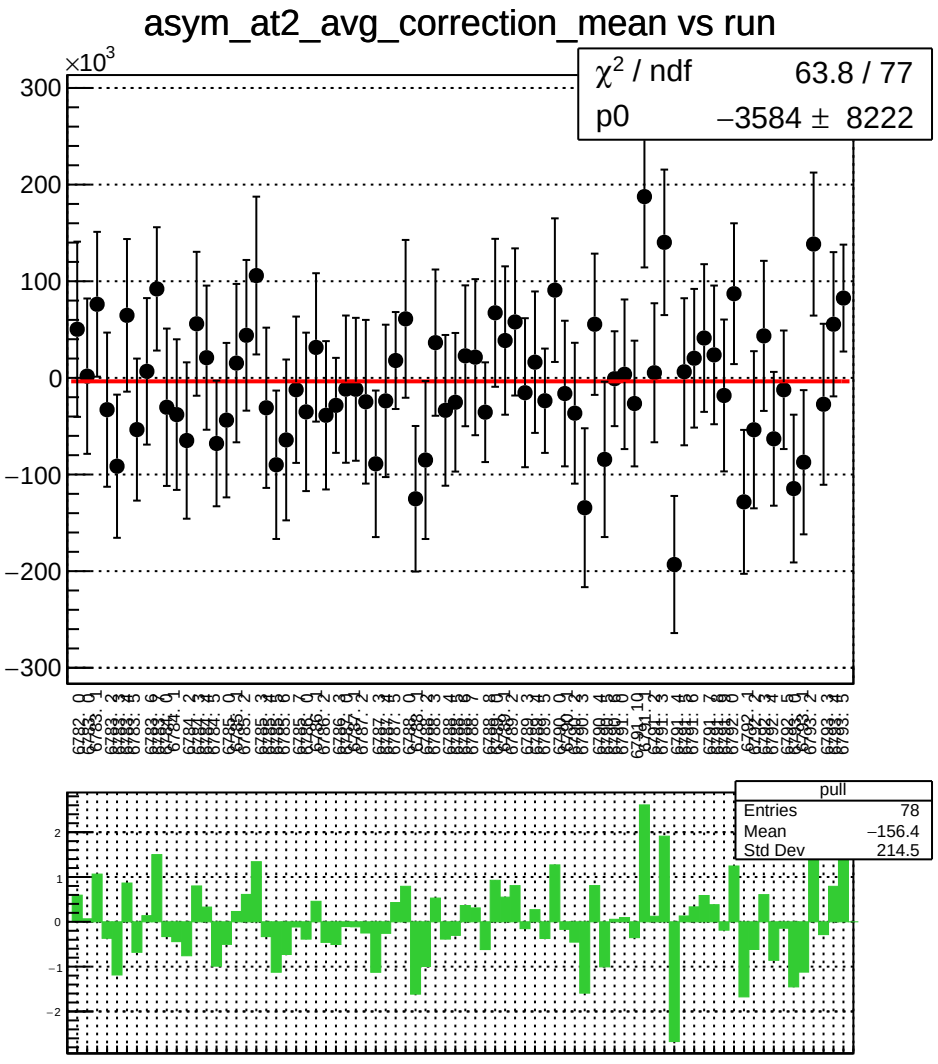

pull1D
Entries 78
Mean −0.0082
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

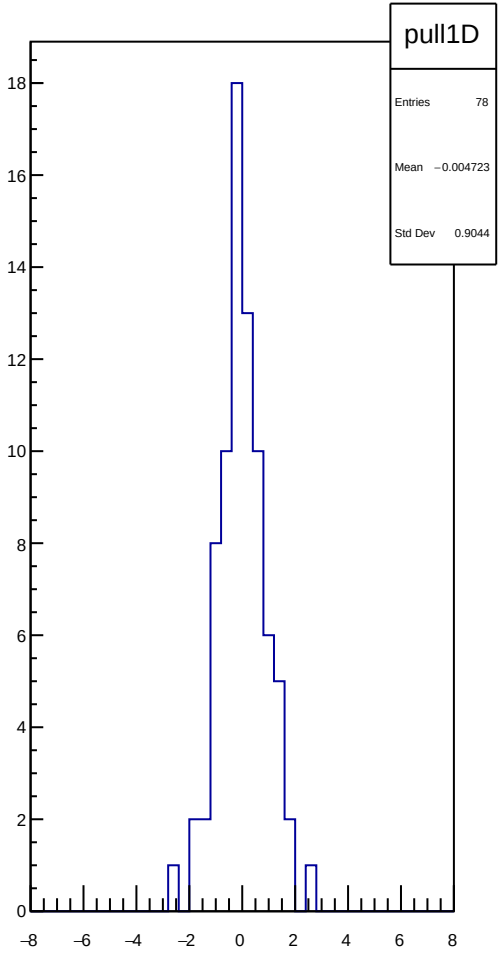

asym_at1_dd_rms vs run
χ² / ndf 1.898e+04 / 77
p0 1892 ± 1.52
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

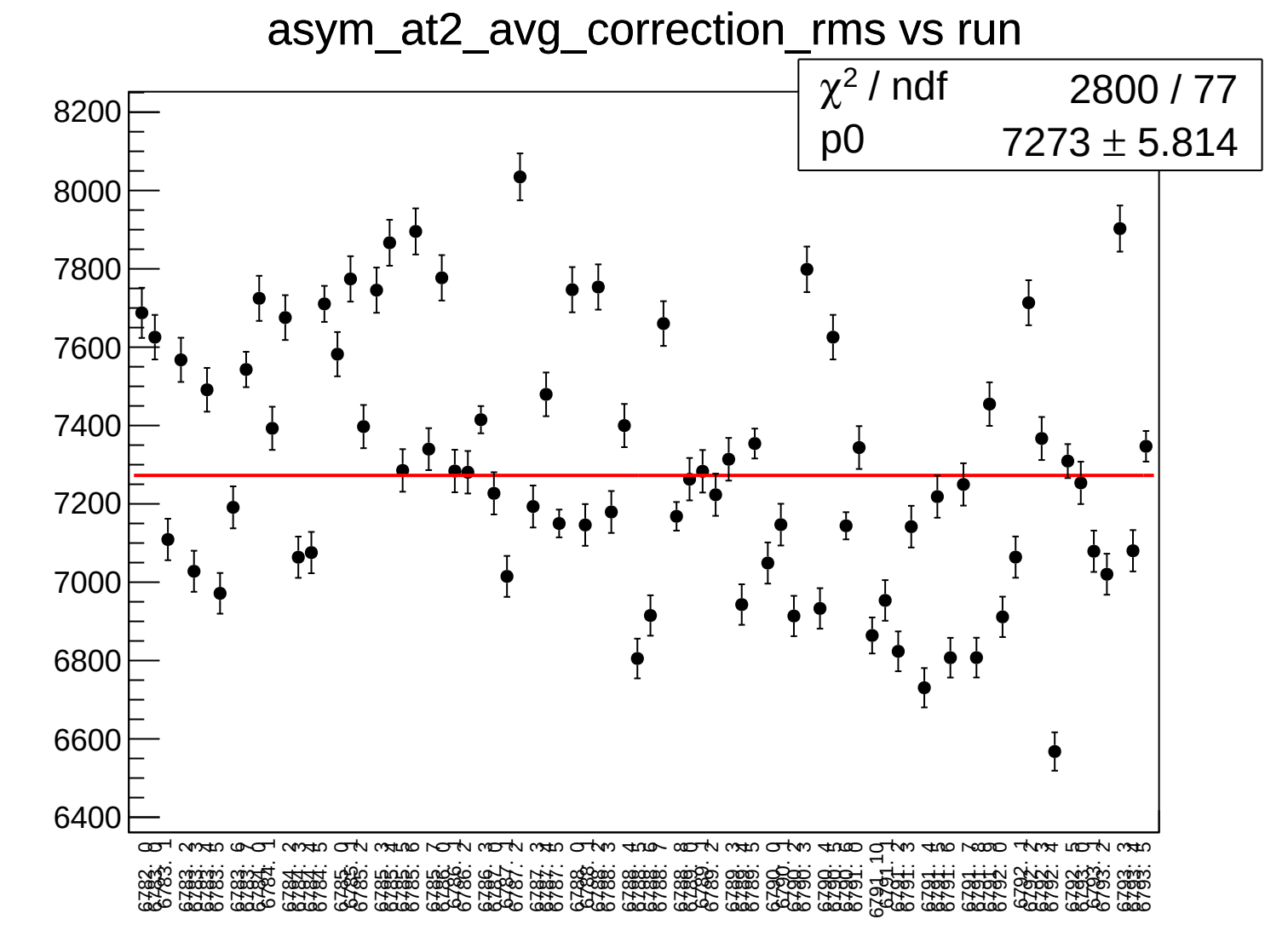

reg_asym_at2_avg_mean vs run
χ² / ndf 76.71 / 77
p0 −1970 ± 2082
pull
Entries 78
Mean 880.6
Std Dev 830.1

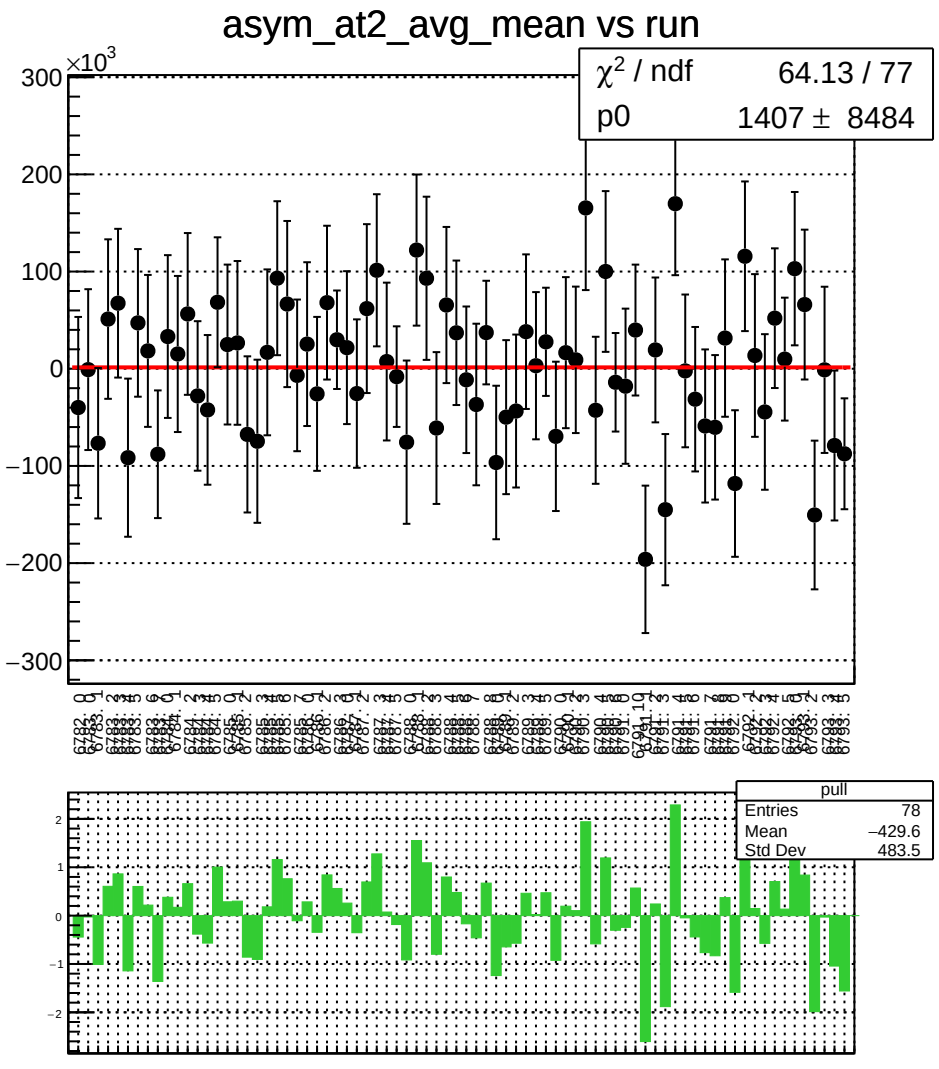

pull1D
Entries 78
Mean −0.005846
Std Dev 0.9917

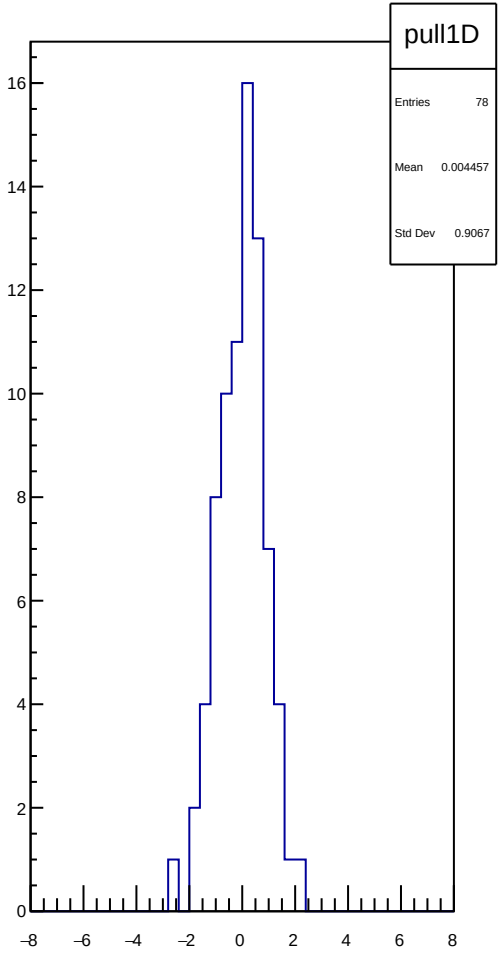

reg_asym_at2_avg_rms vs run
χ² / ndf 148.2 / 77
p0 1843 ± 1.472
1940
1920
1900
1880
1860
1840
1820
1800
1780

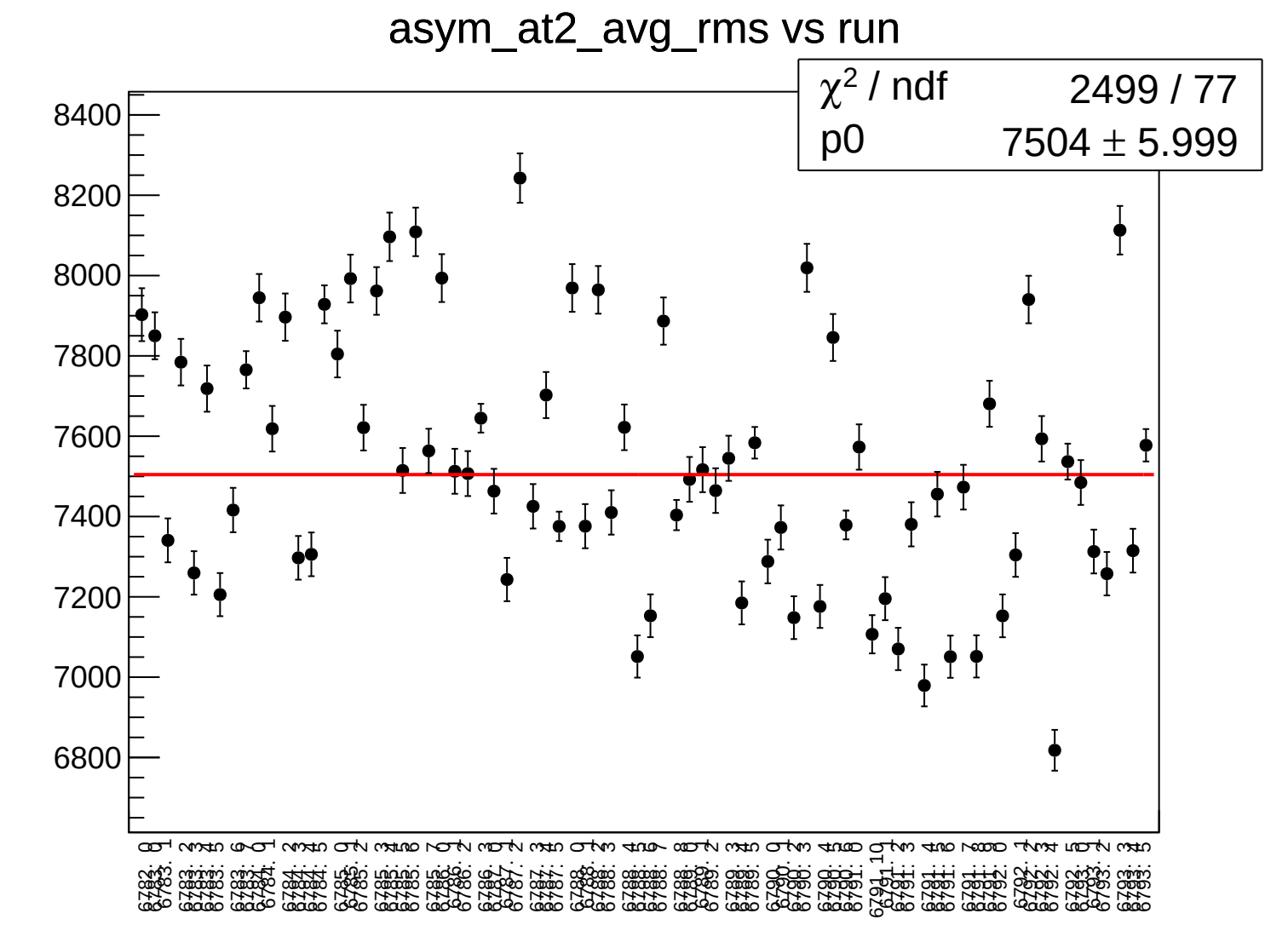

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 63.8 / 77
p0 −3584 ± 8222
pull
Entries 78
Mean −156.4
Std Dev 214.5

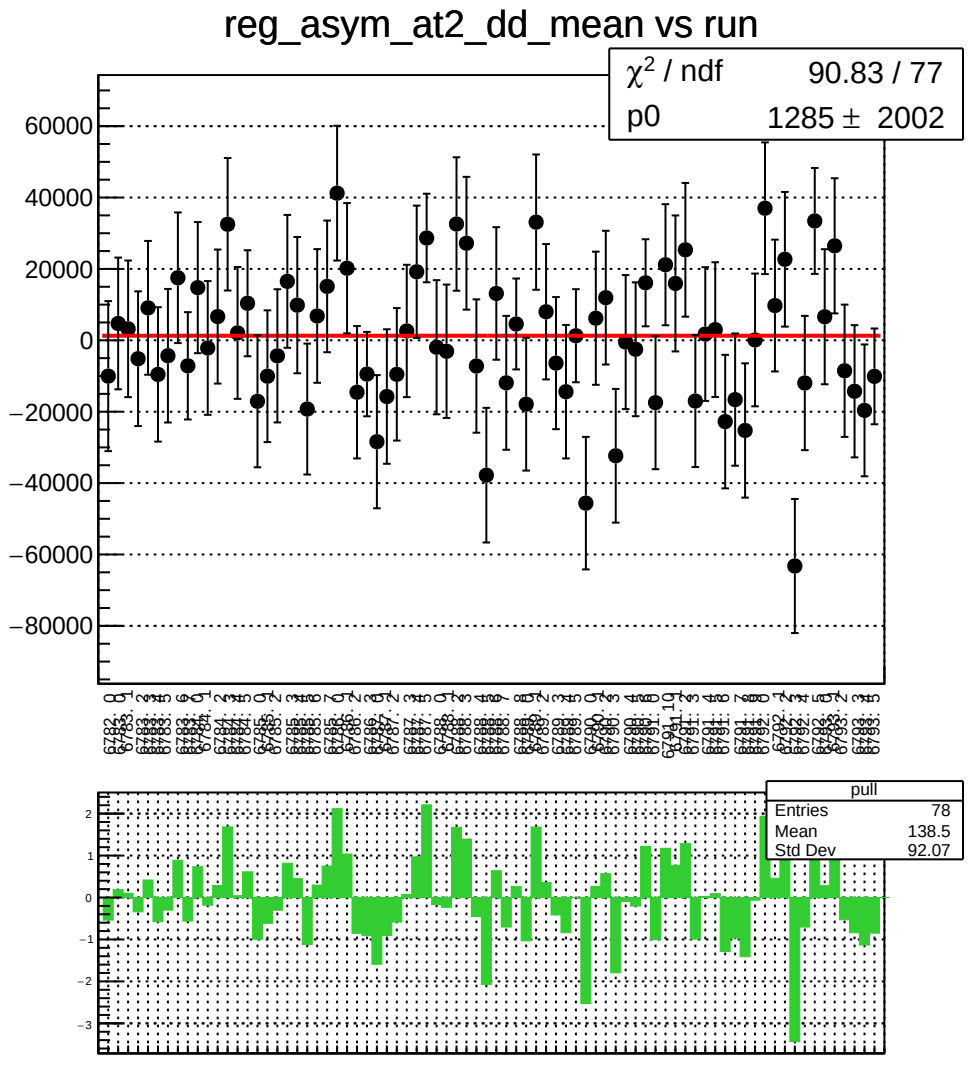

pull1D
Entries 78
Mean −0.004723
Std Dev 0.9044

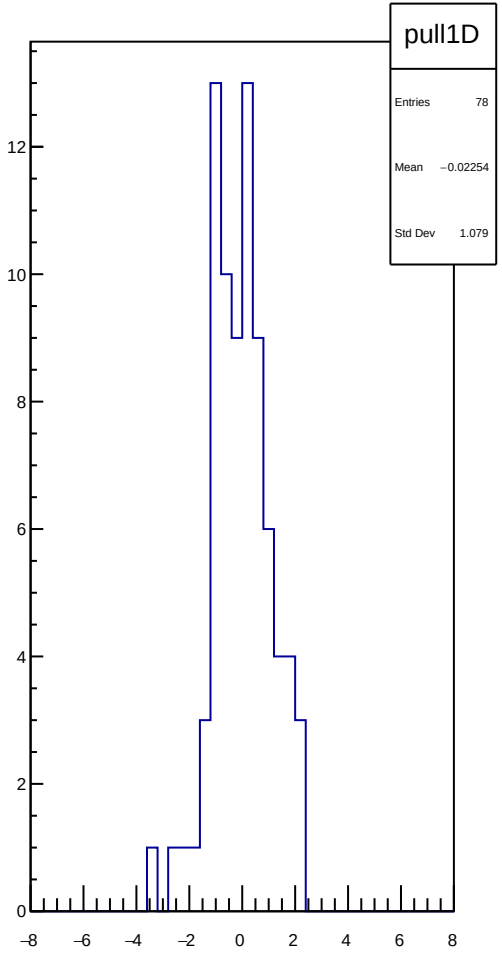

asym_at2_avg_correction_rms vs run
χ² / ndf 2800 / 77
p0 7273 ± 5.814
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

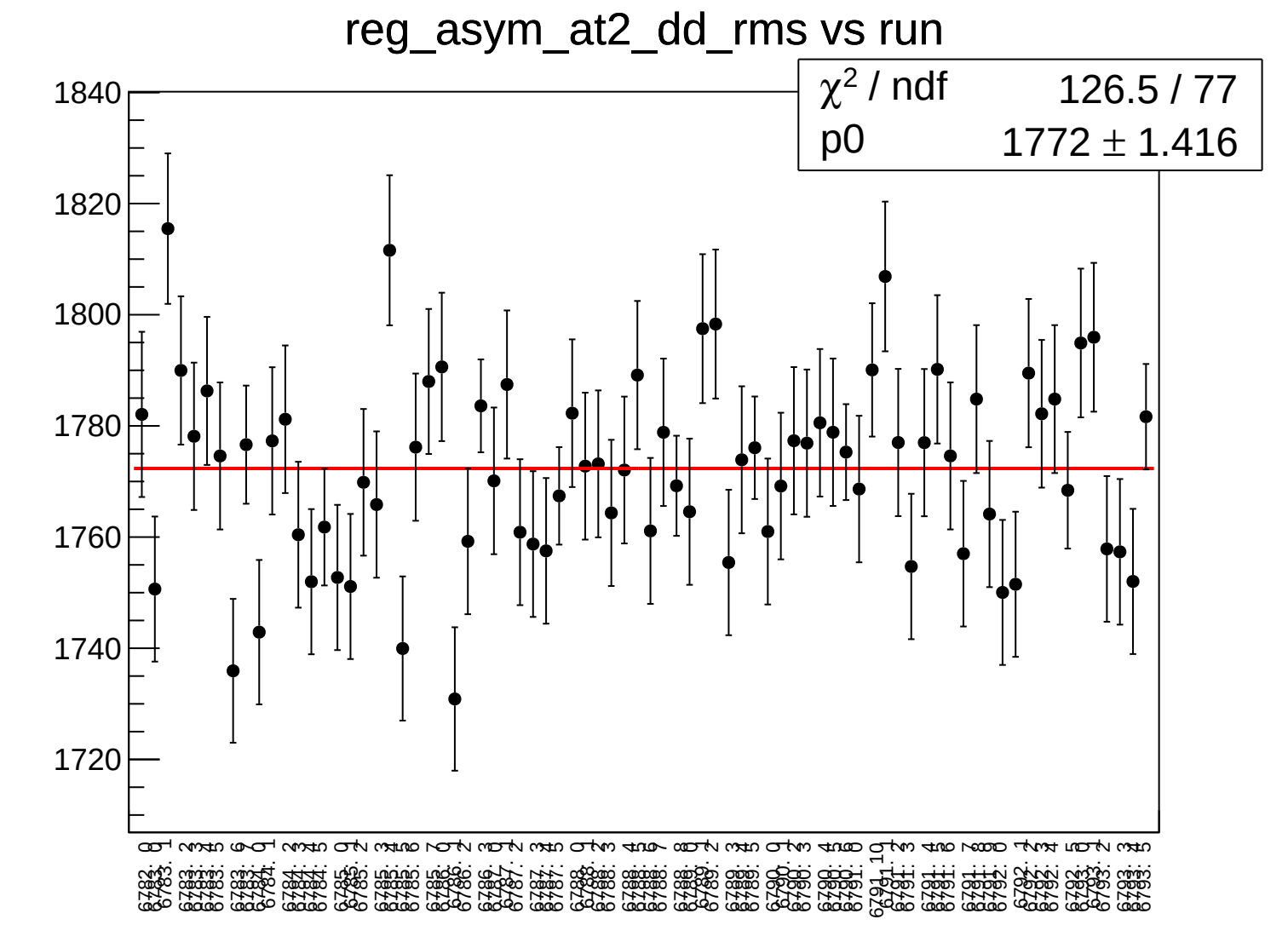

asym_at2_avg_mean vs run
×10^3
χ² / ndf 64.13 / 77
p0 1407 ± 8484
pull
Entries 78
Mean −429.6
Std Dev 483.5

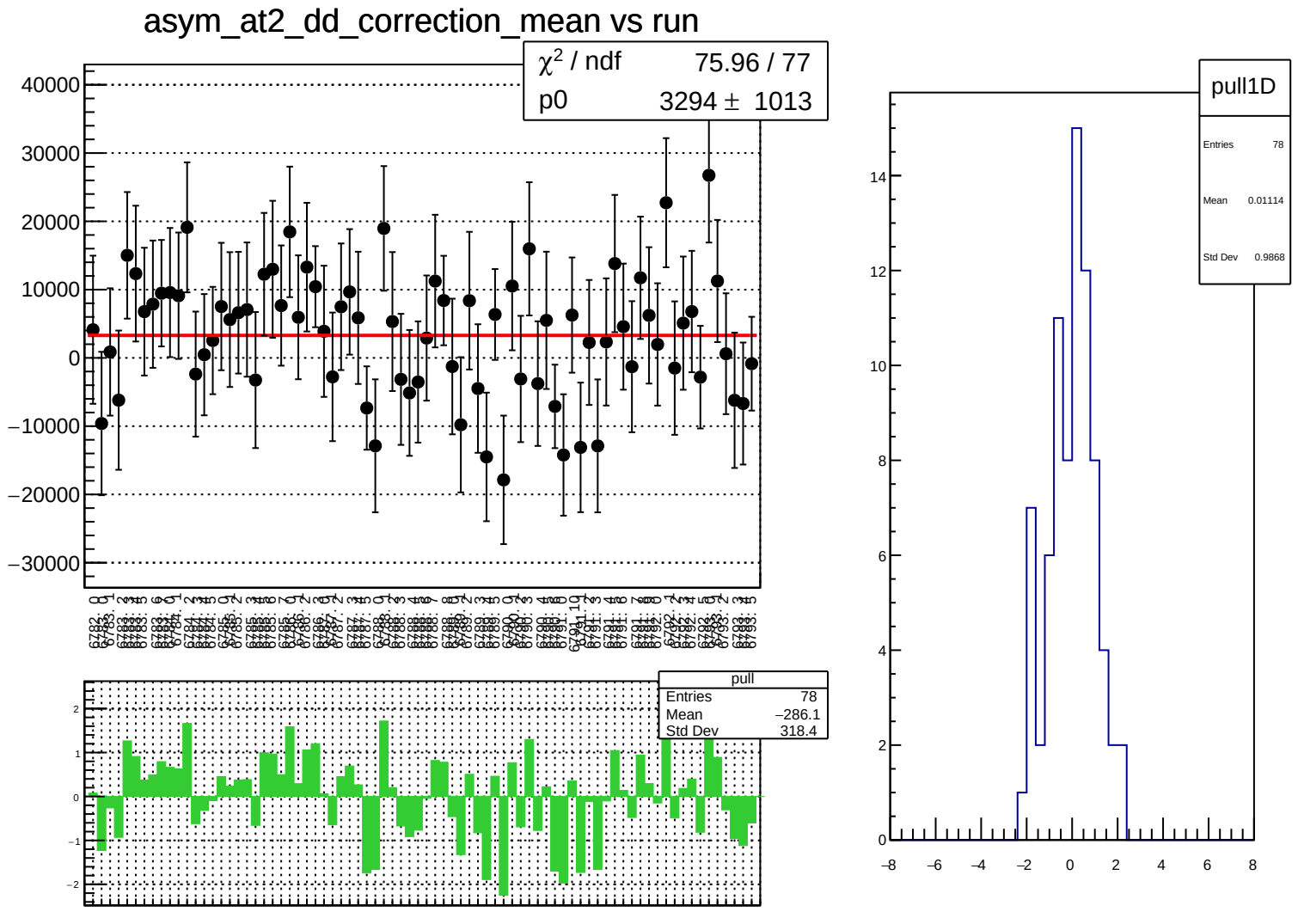

pull1D
Entries 78
Mean 0.004457
Std Dev 0.9067

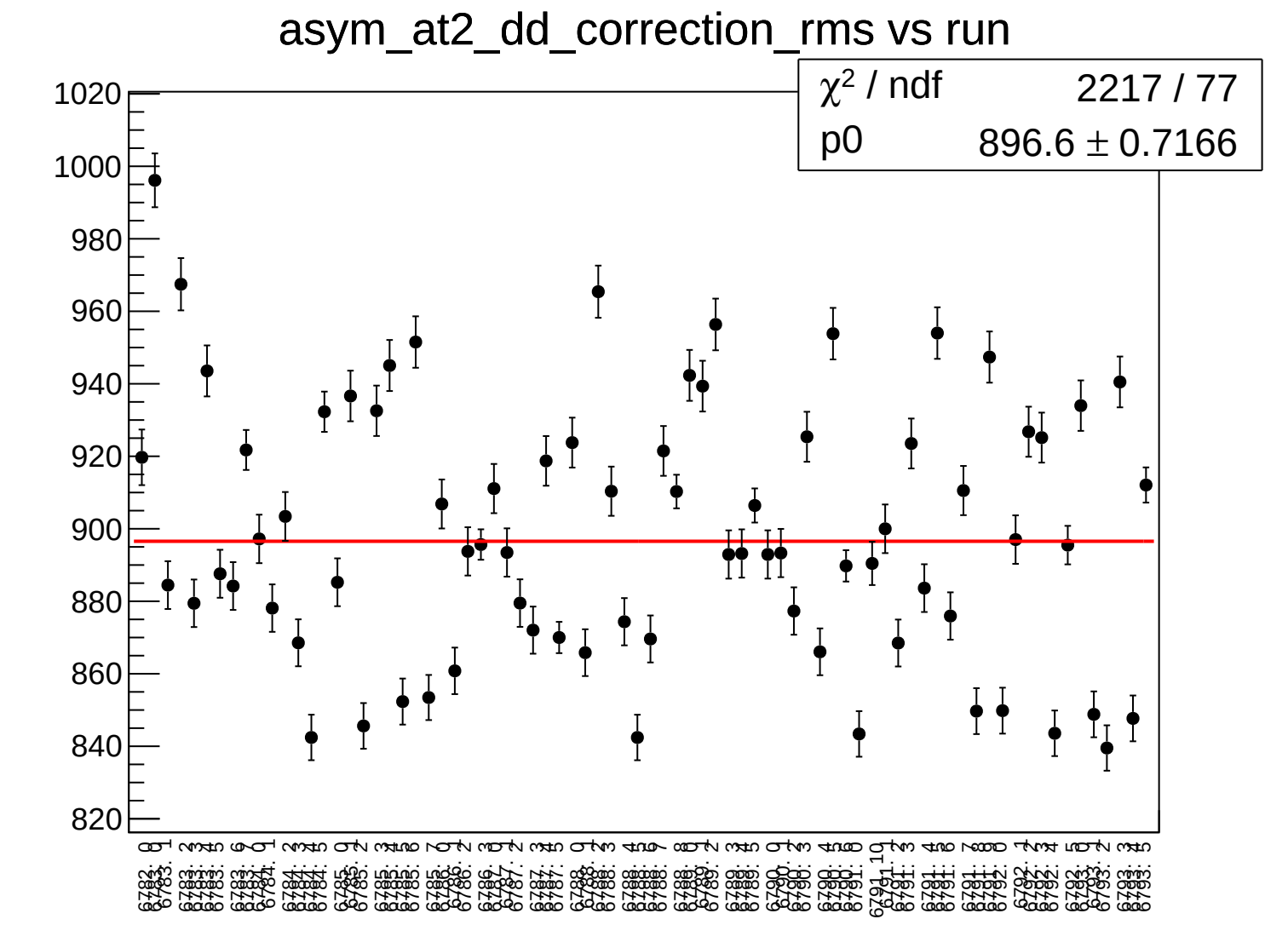

asym_at2_avg_rms vs run
χ² / ndf 2499 / 77
p0 7504 ± 5.999
8400
8200
8000
7800
7600
7400
7200
7000
6800

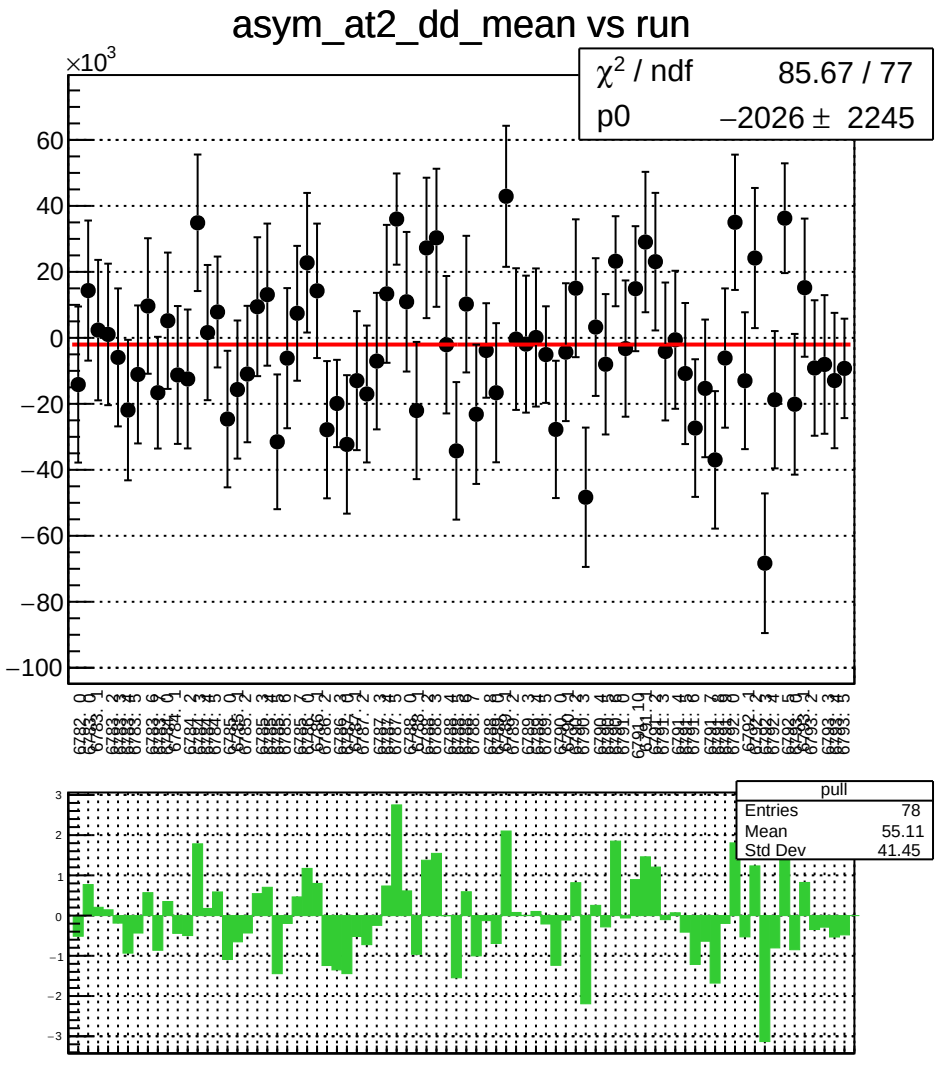

reg_asym_at2_dd_mean vs run
χ² / ndf 90.83 / 77
p0 1285 ± 2002
pull
Entries 78
Mean 138.5
Std Dev 92.07

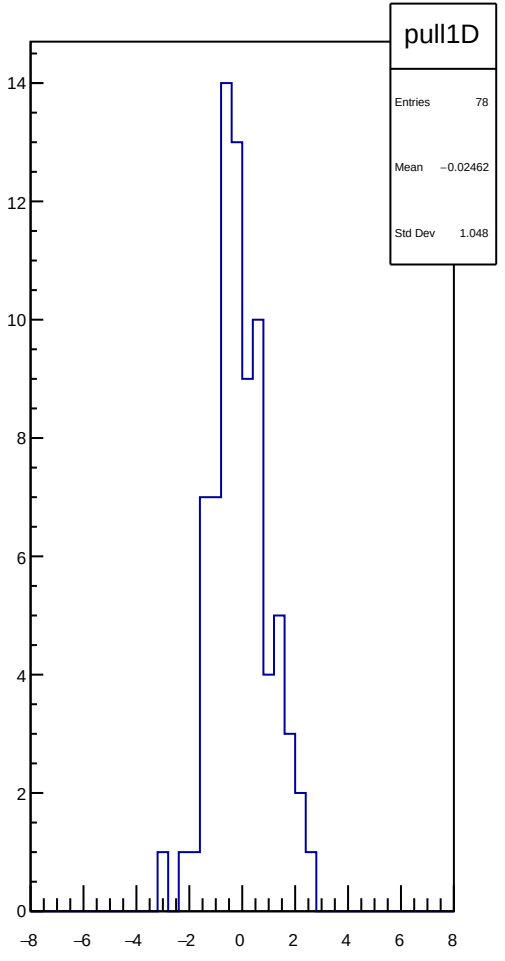

pull1D
Entries 78
Mean −0.02254
Std Dev 1.079

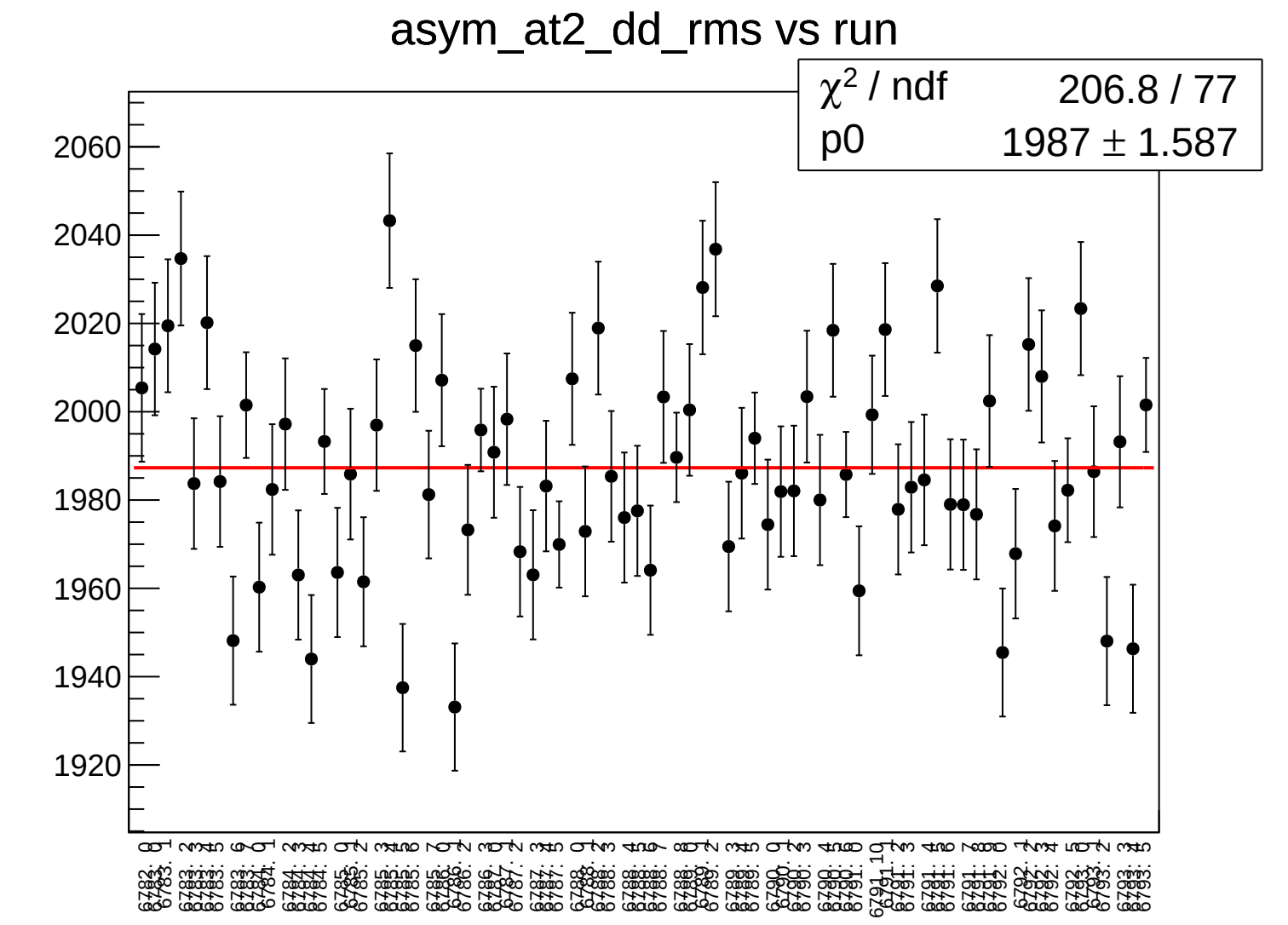

reg_asym_at2_dd_rms vs run
χ² / ndf 126.5 / 77
p0 1772 ± 1.416
1840
1820
1800
1780
1760
1740
1720

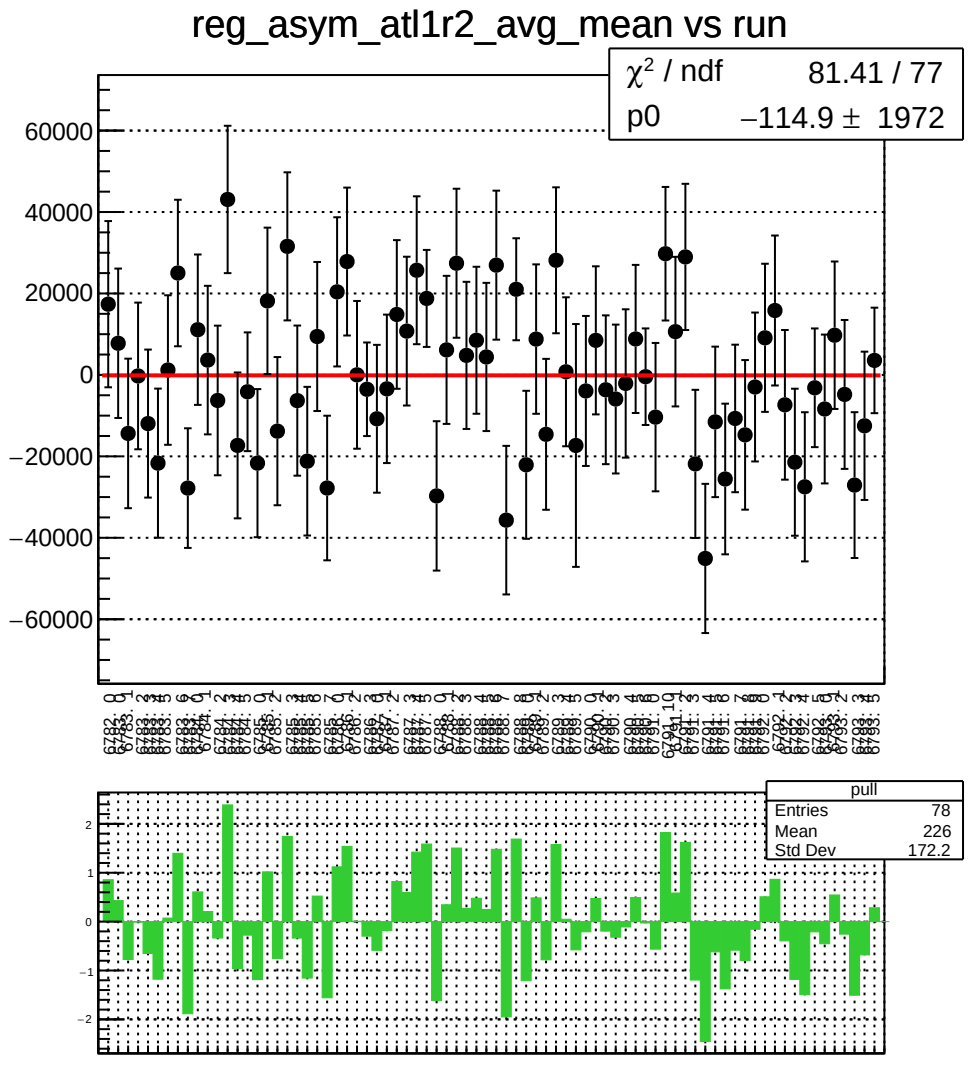

asym_at2_dd_correction_mean vs run
χ² / ndf 75.96 / 77
p0 3294 ± 1013
pull
Entries 78
Mean −286.1
Std Dev 318.4
pull1D
Entries 78
Mean 0.01114
Std Dev 0.9868

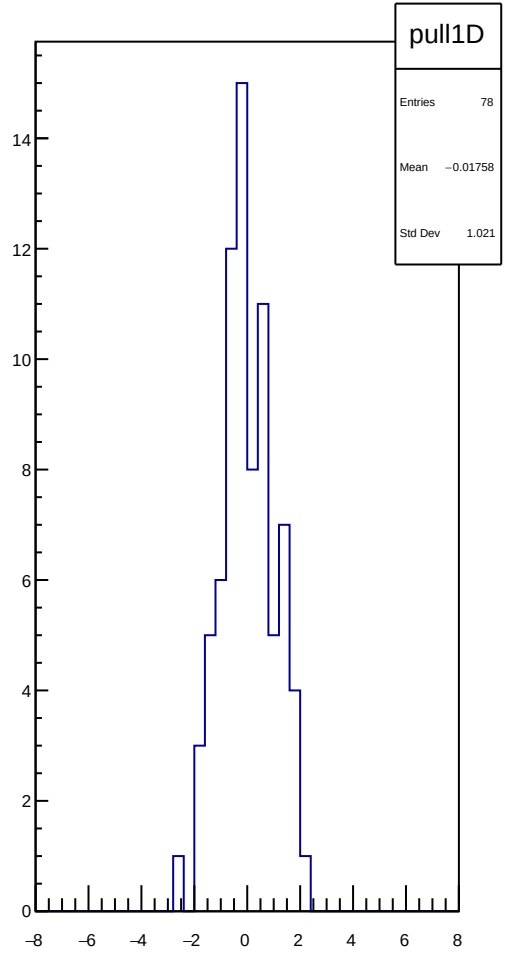

asym_at2_dd_correction_rms vs run
χ² / ndf 2217 / 77
p0 896.6 ± 0.7166
1020
1000
980
960
940
920
900
880
860
840
820

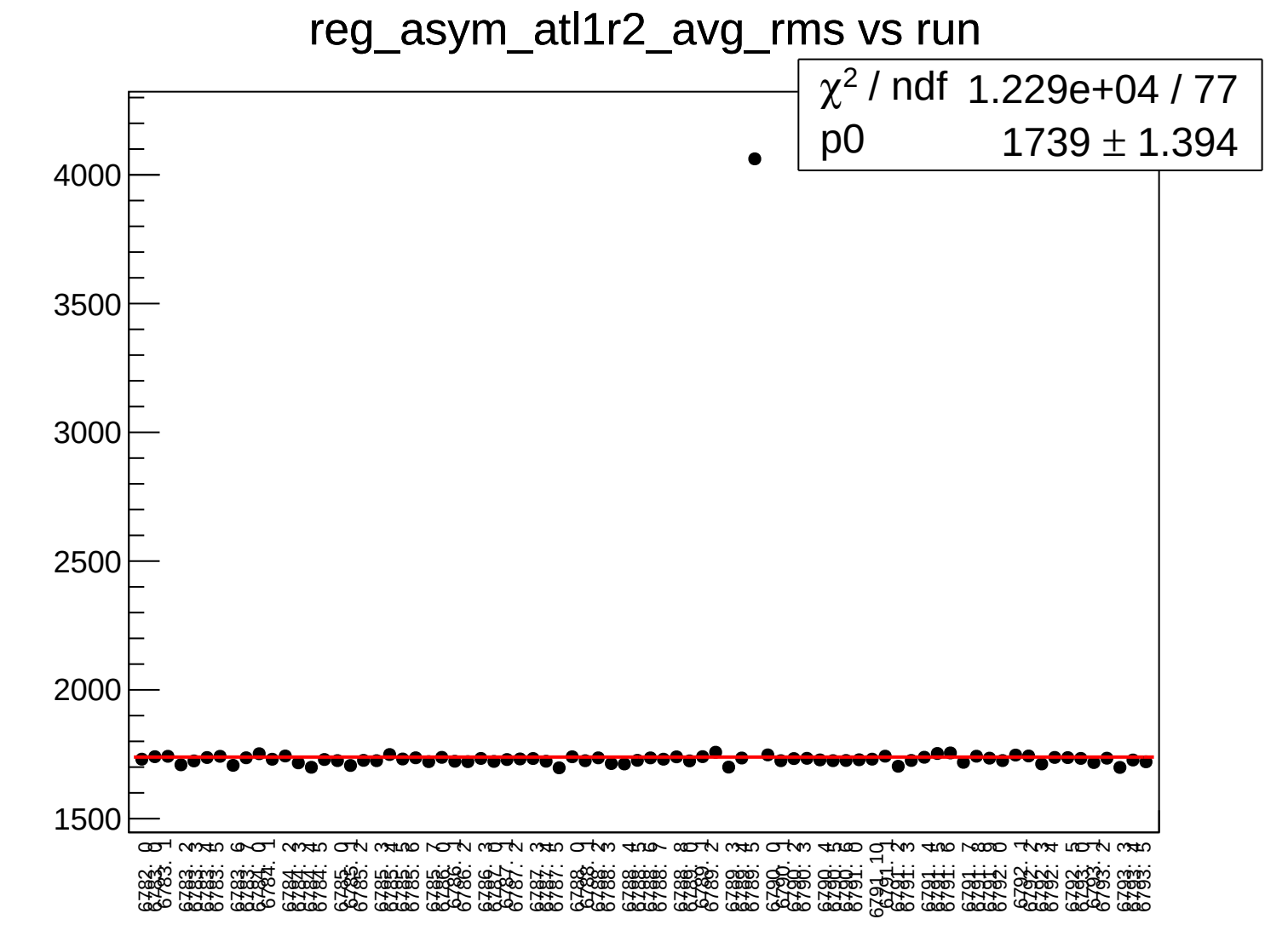

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 85.67 / 77
p0 −2026 ± 2245
pull
Entries 78
Mean 55.11
Std Dev 41.45

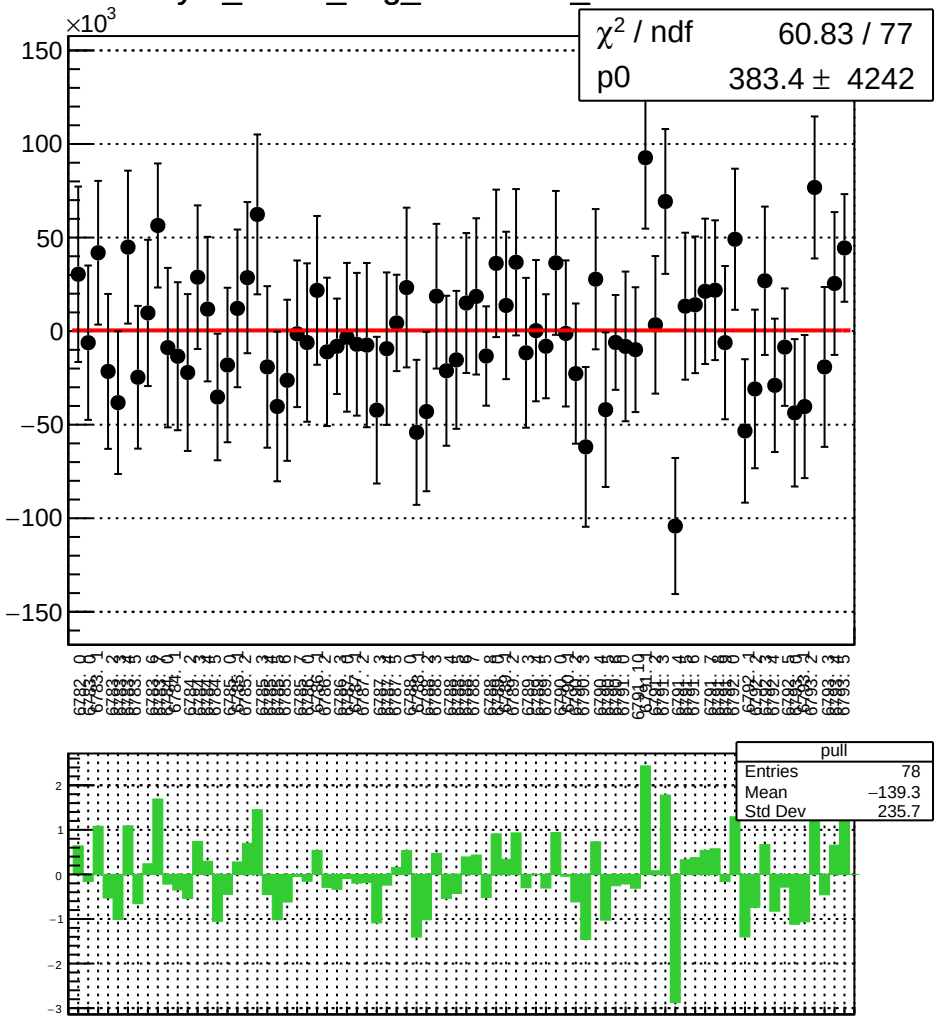

pull1D
Entries 78
Mean −0.02462
Std Dev 1.048

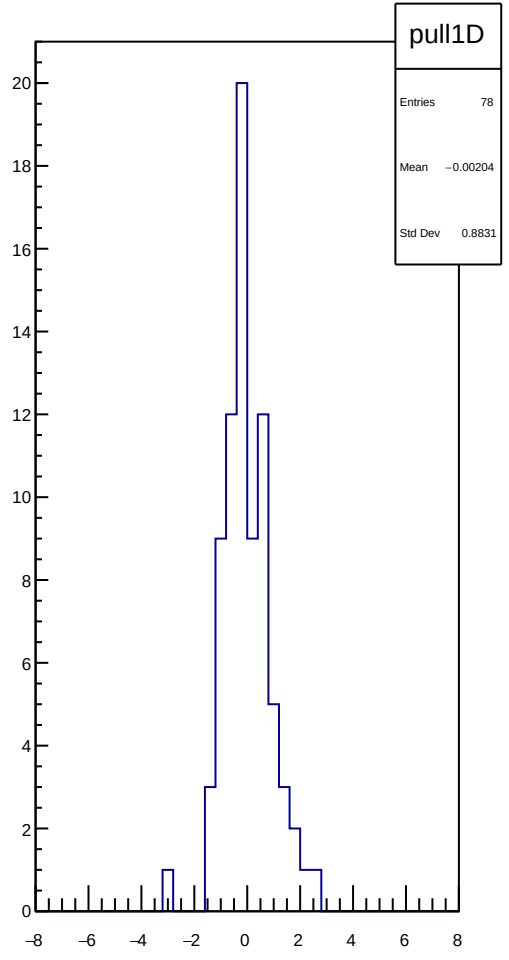

asym_at2_dd_rms vs run
χ^2 / ndf 206.8 / 77
p0 1987 ± 1.587
2060
2040
2020
2000
1980
1960
1940
1920

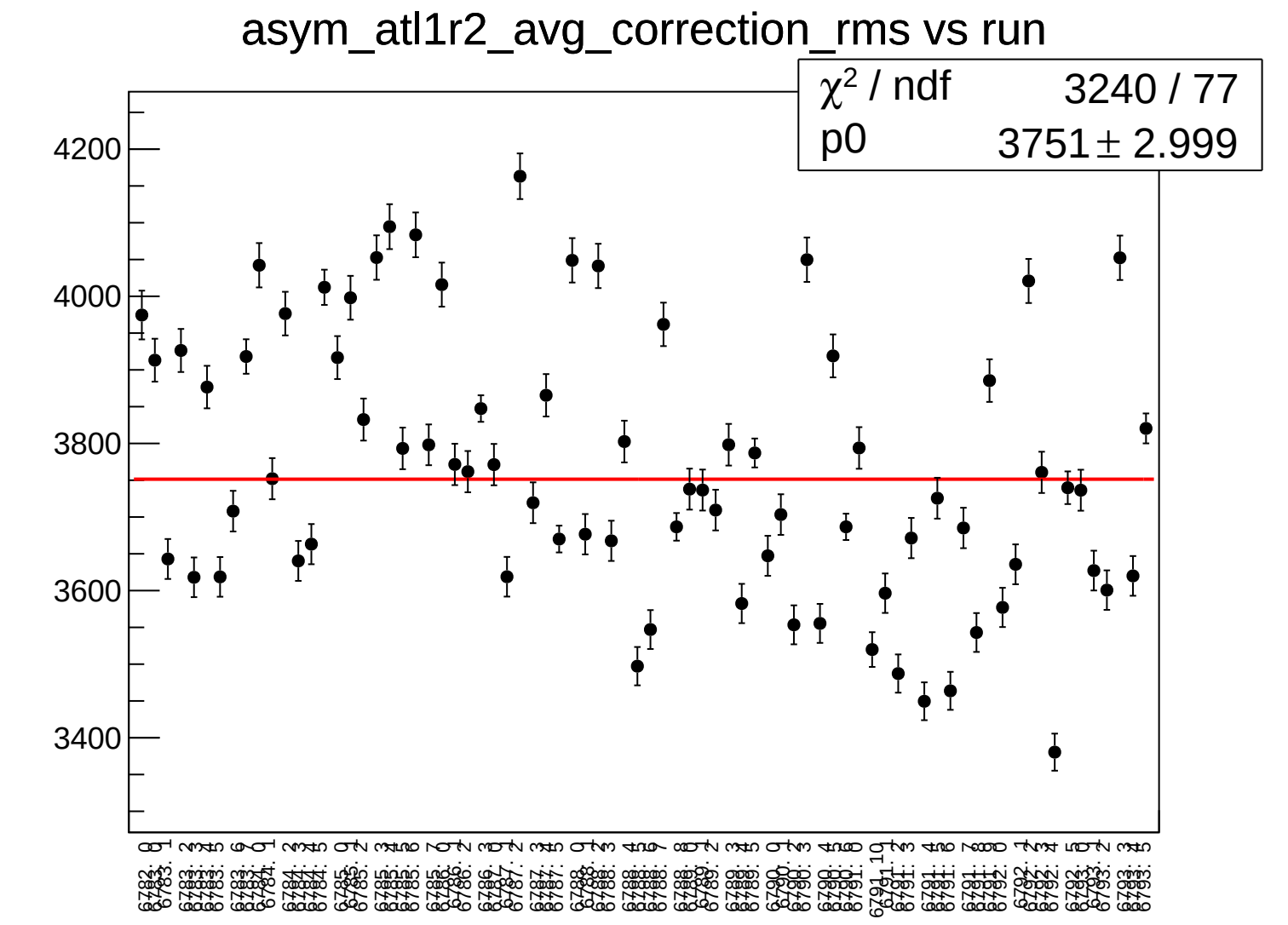

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 81.41 / 77
p0 −114.9 ± 1972
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean 226
Std Dev 172.2
2
1
0
−1
−2

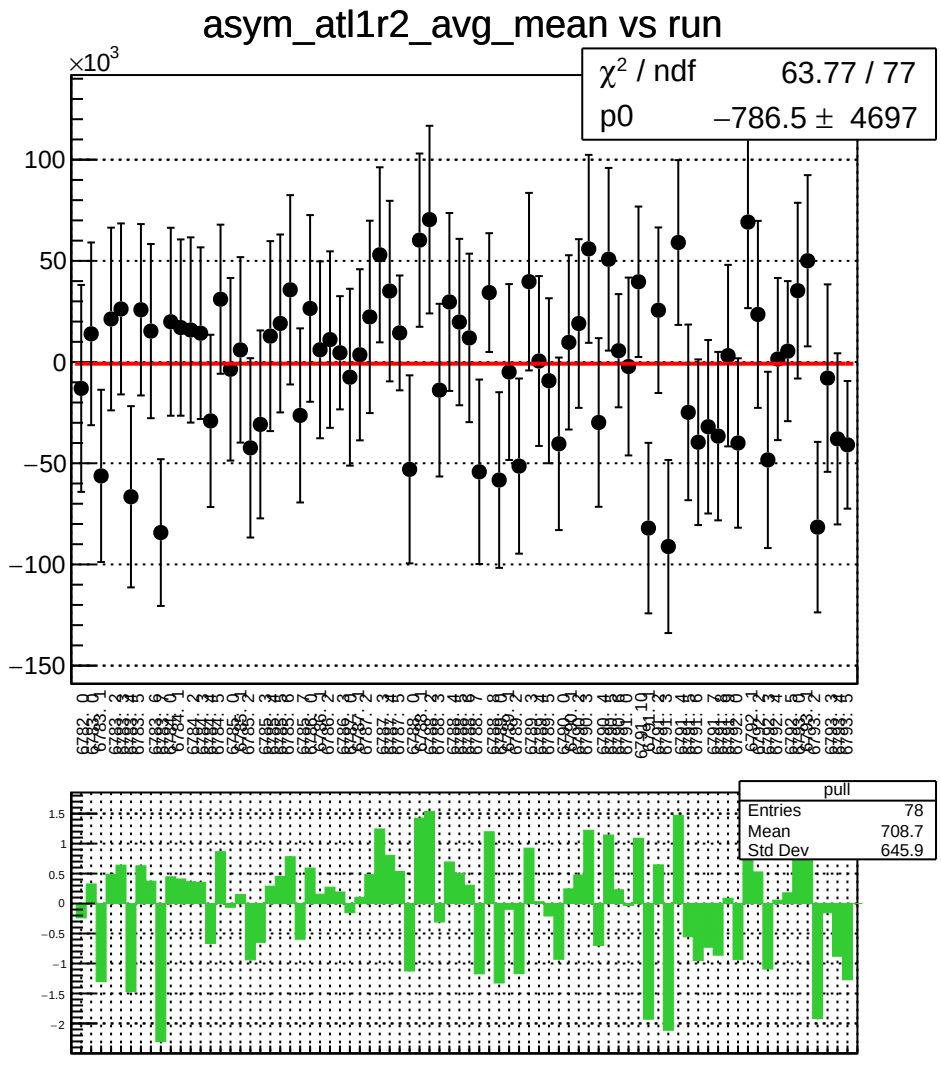

pull1D
Entries 78
Mean −0.01758
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

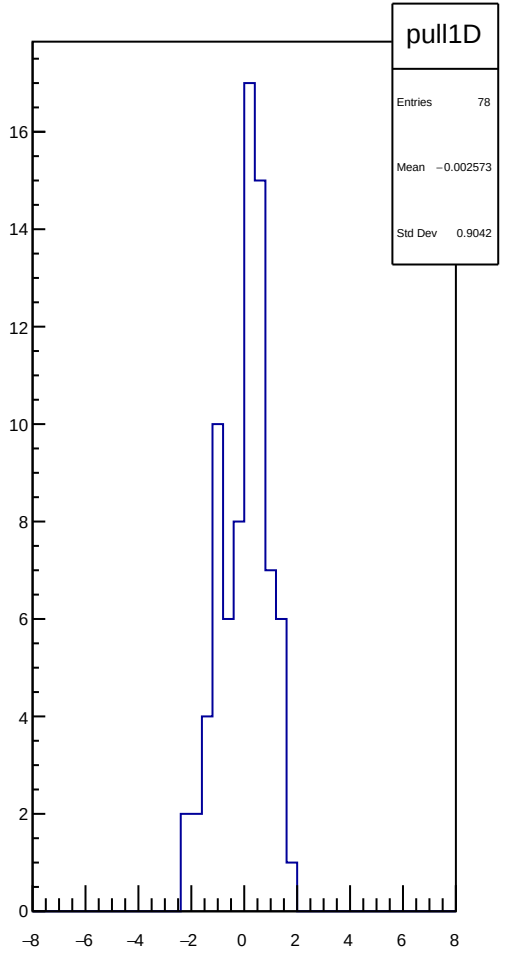

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 1.229e+04 / 77
p0 1739 ± 1.394
4000
3500
3000
2500
2000
1500

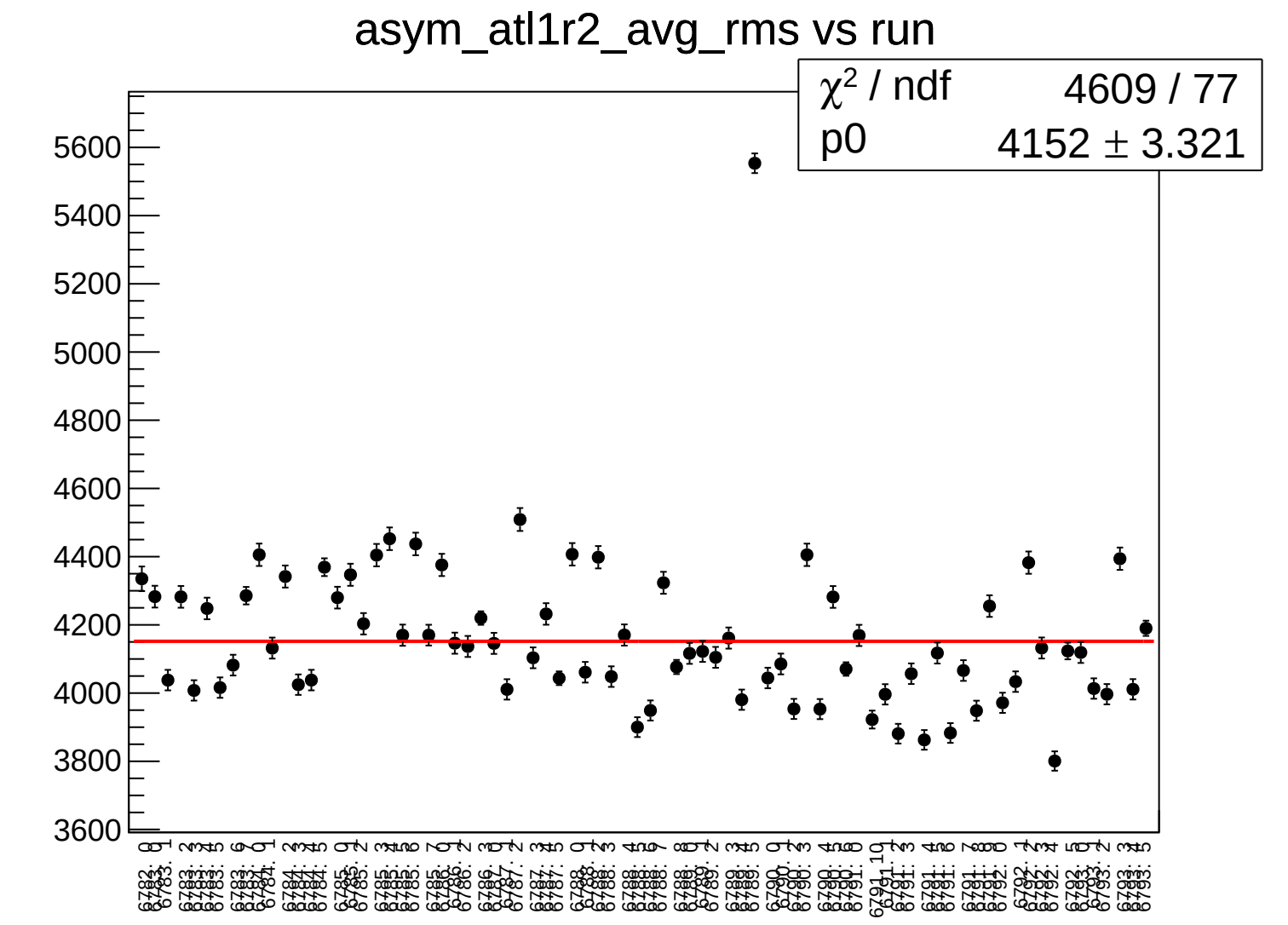

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 60.83 / 77
p0 383.4 ± 4242
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −139.3
Std Dev 235.7
2
1
0
−1
−2
−3

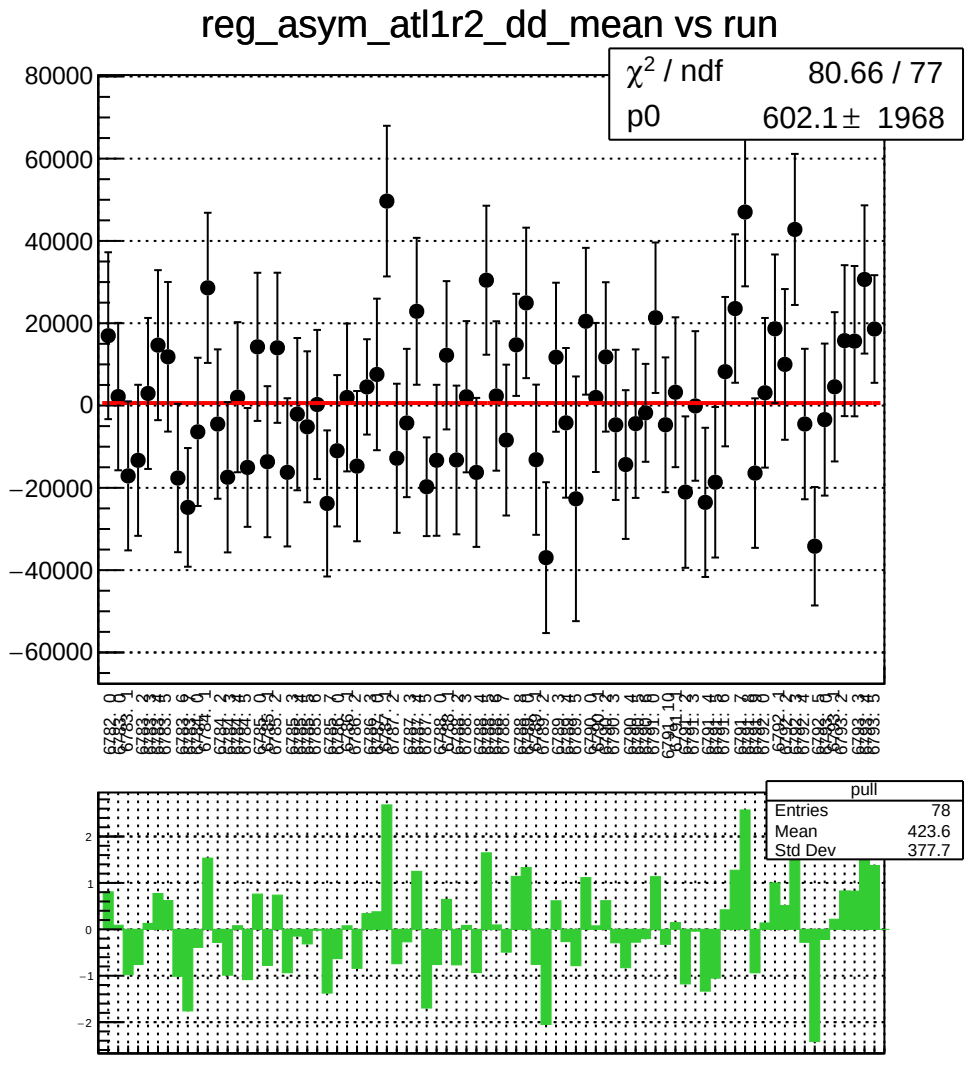

pull1D
Entries 78
Mean −0.00204
Std Dev 0.8831
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

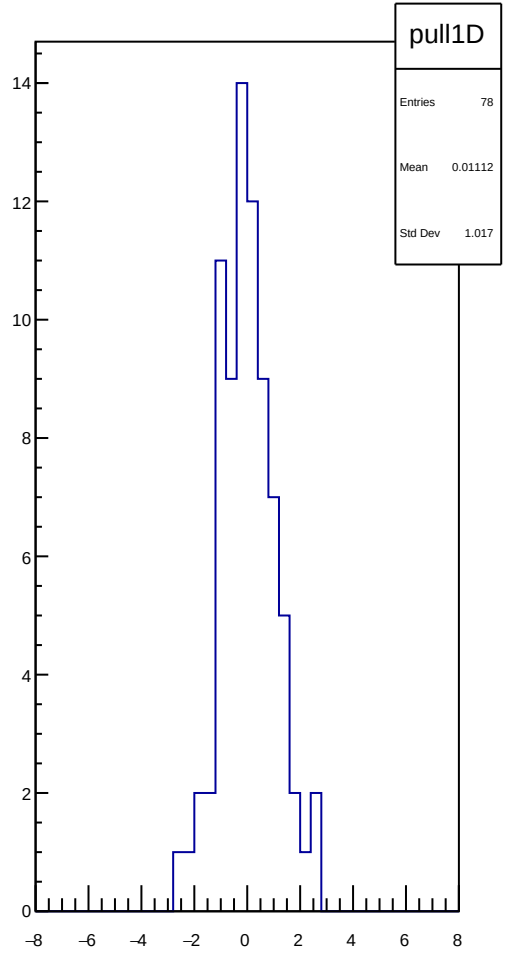

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 3240 / 77
p0 3751 ± 2.999
4200
4000
3800
3600
3400

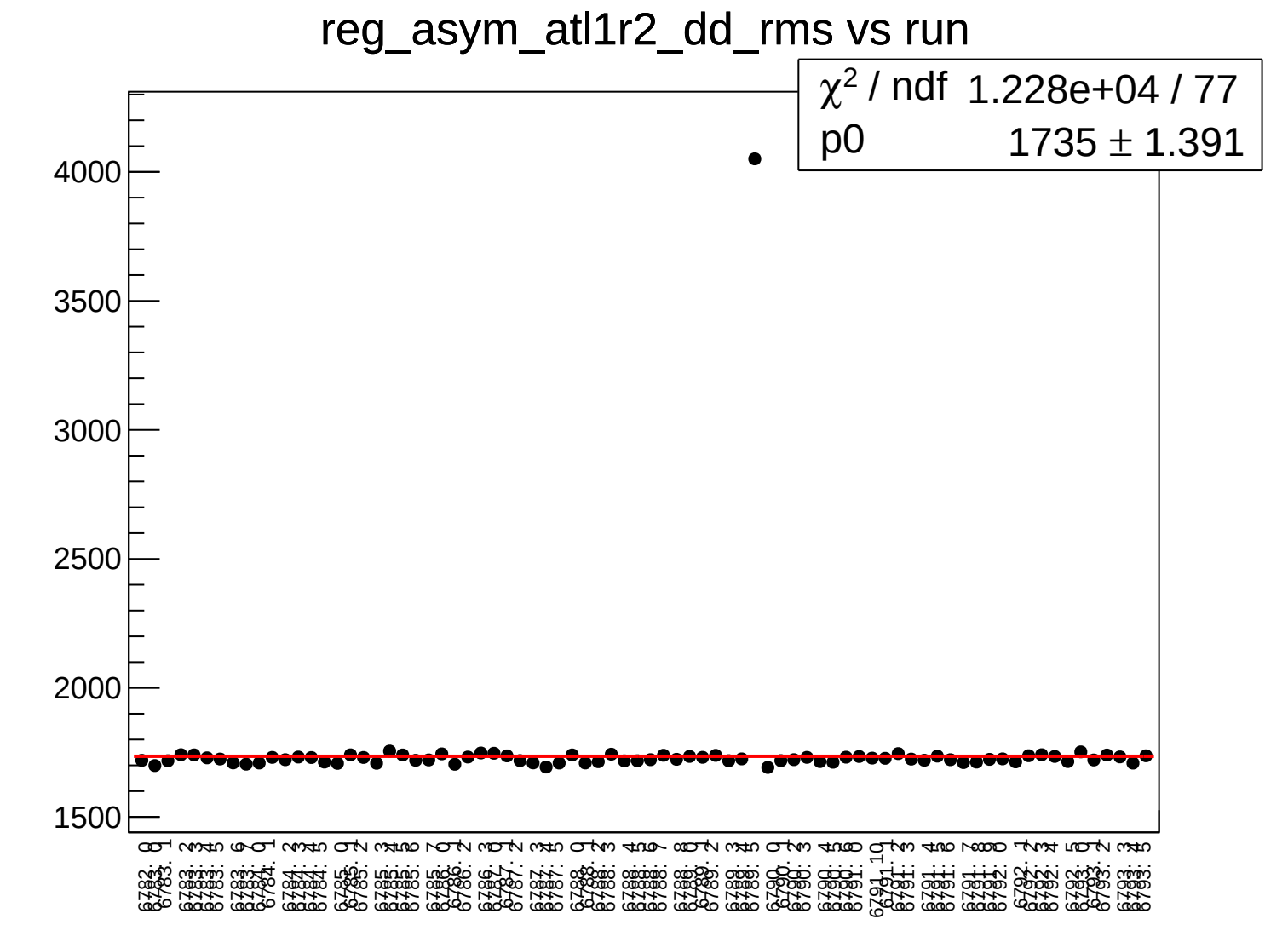

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 63.77 / 77
p0 −786.5 ± 4697
100
50
0
−50
−100
−150
pull
Entries 78
Mean 708.7
Std Dev 645.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

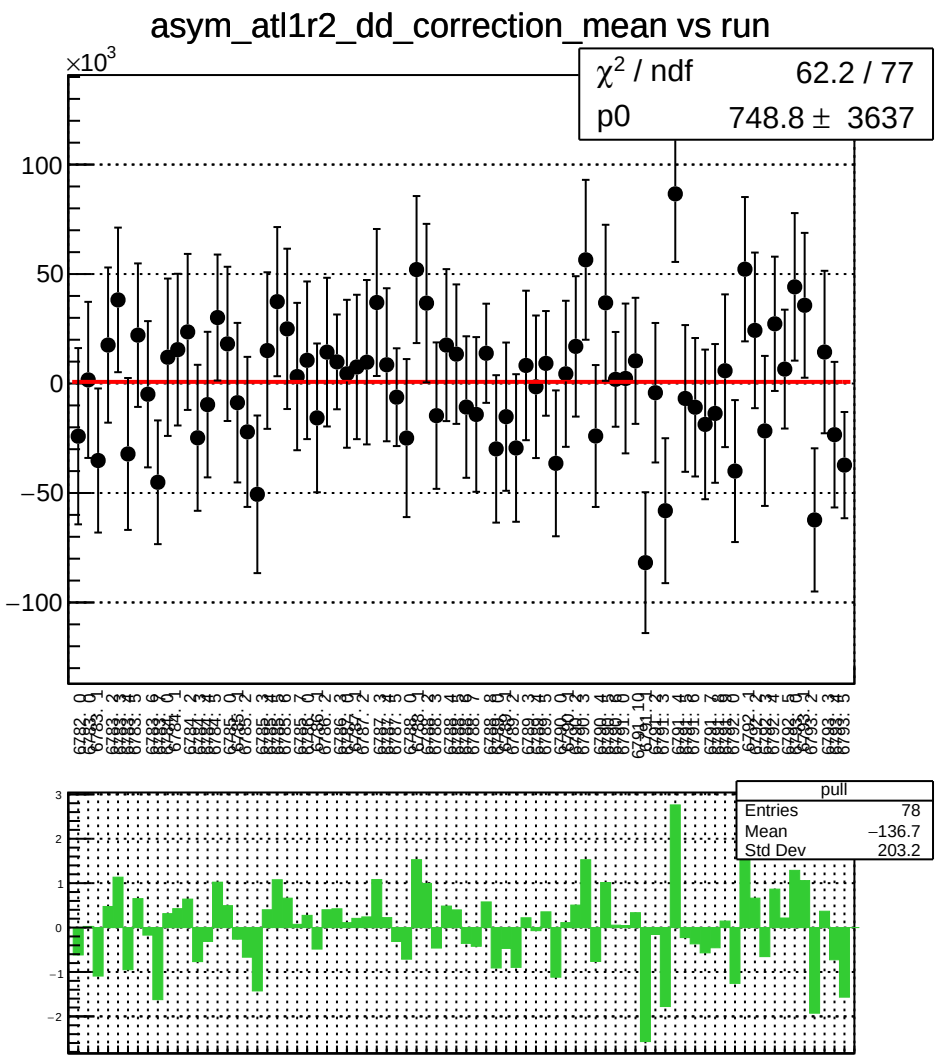

pull1D
Entries 78
Mean −0.002573
Std Dev 0.9042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

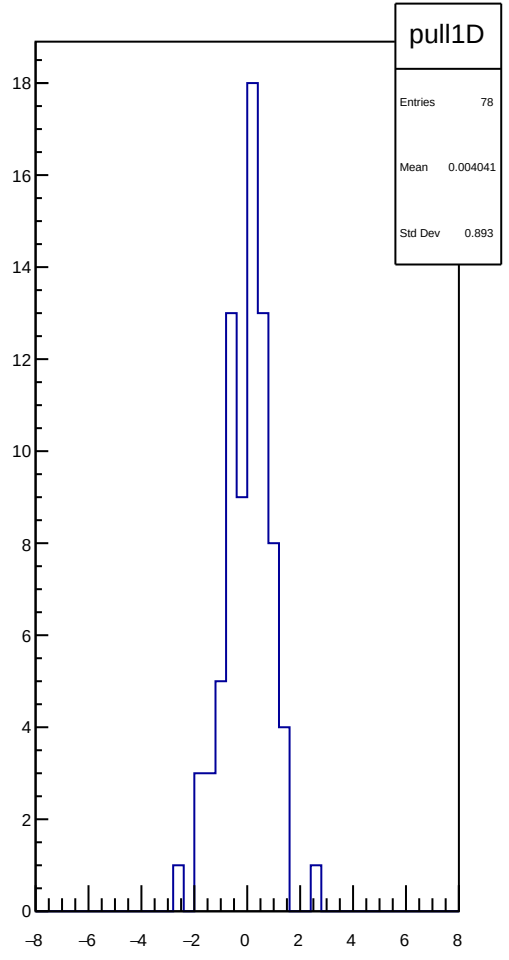

asym_atl1r2_avg_rms vs run
χ² / ndf 4609 / 77
p0 4152 ± 3.321
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

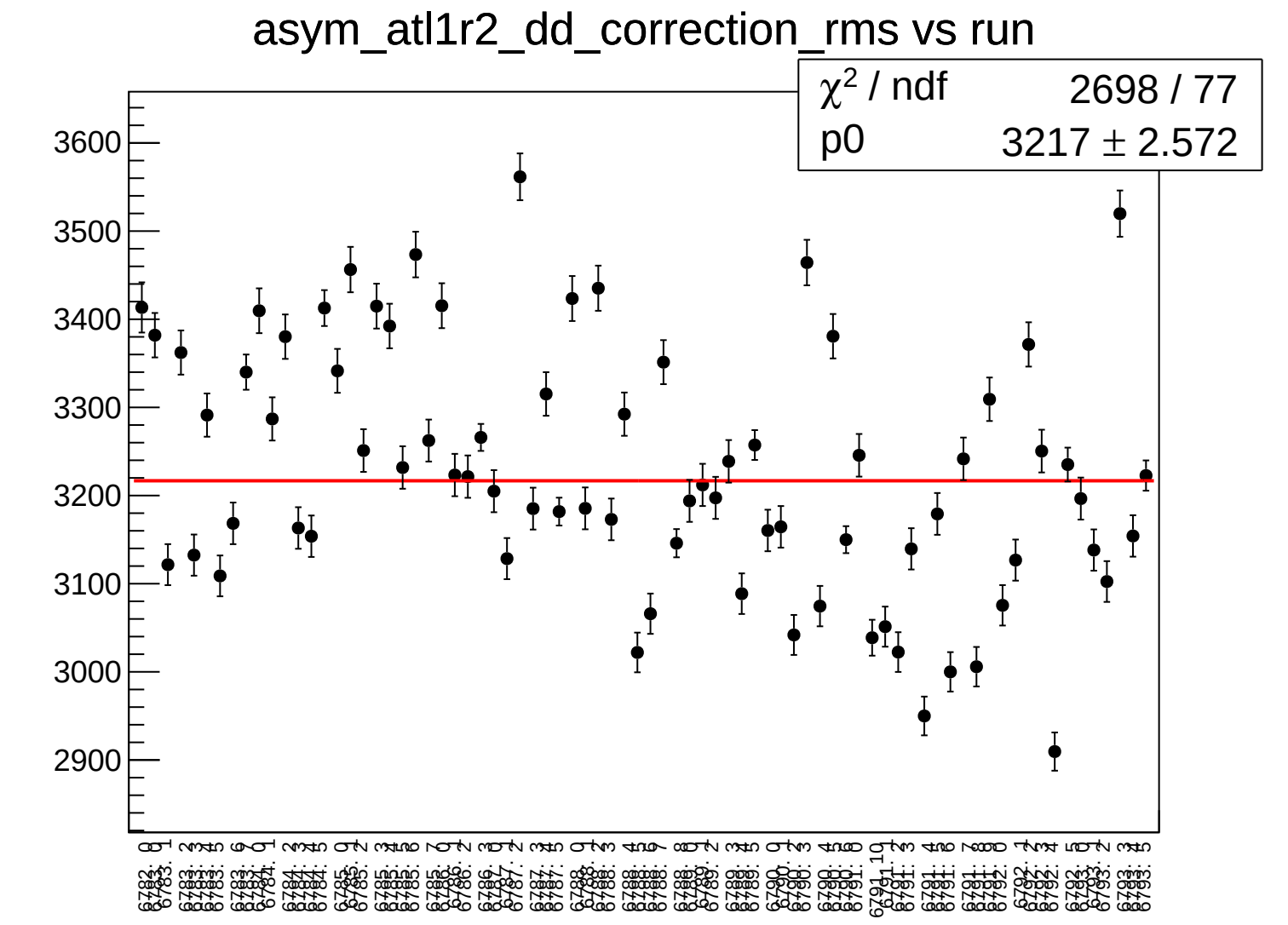

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 80.66 / 77
p0 602.1 ± 1968
pull
Entries 78
Mean 423.6
Std Dev 377.7

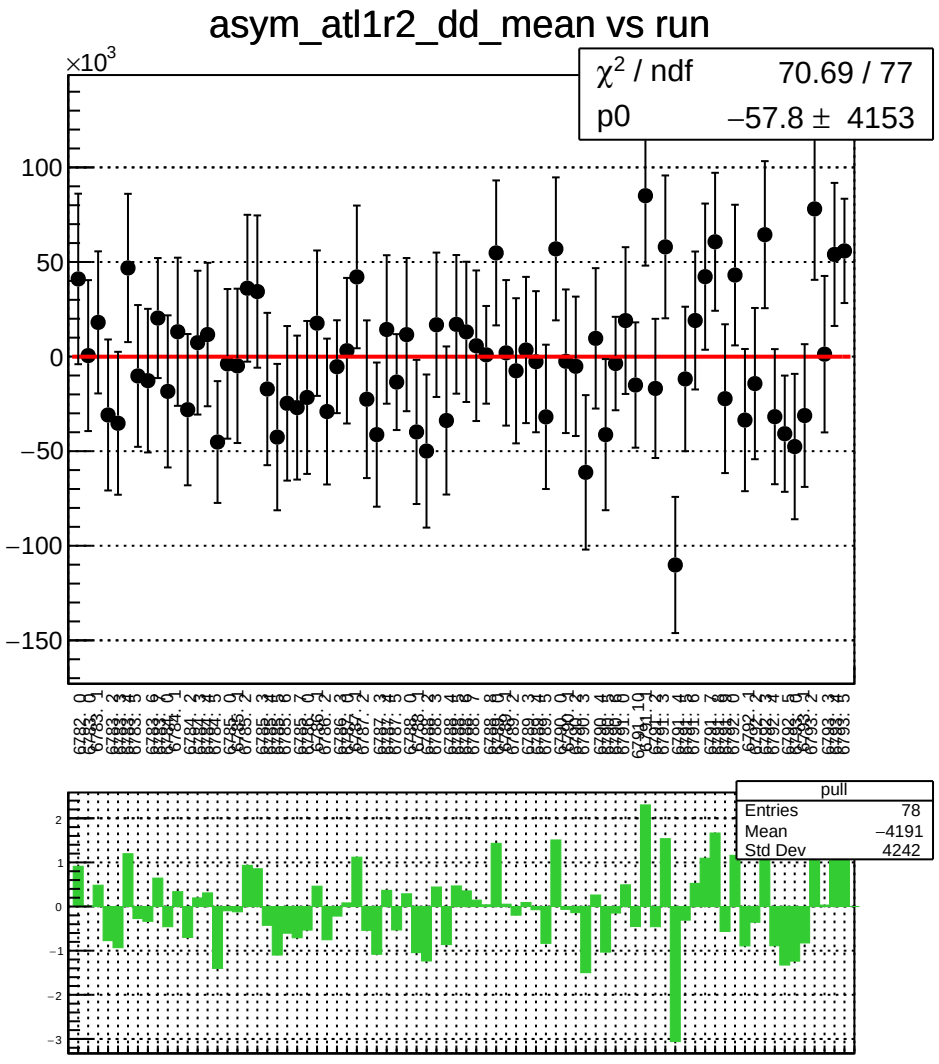

pull1D
Entries 78
Mean 0.01112
Std Dev 1.017

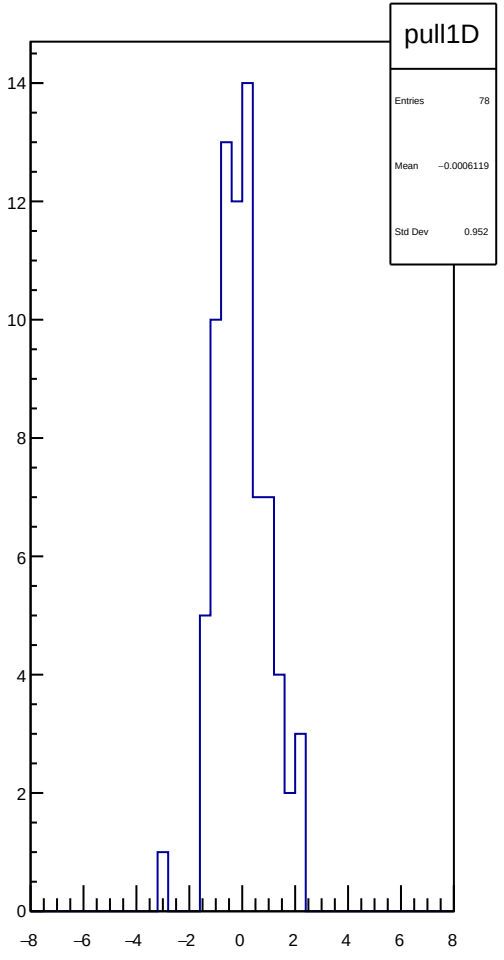

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 1.228e+04 / 77
p0 1735 ± 1.391
4000
3500
3000
2500
2000
1500

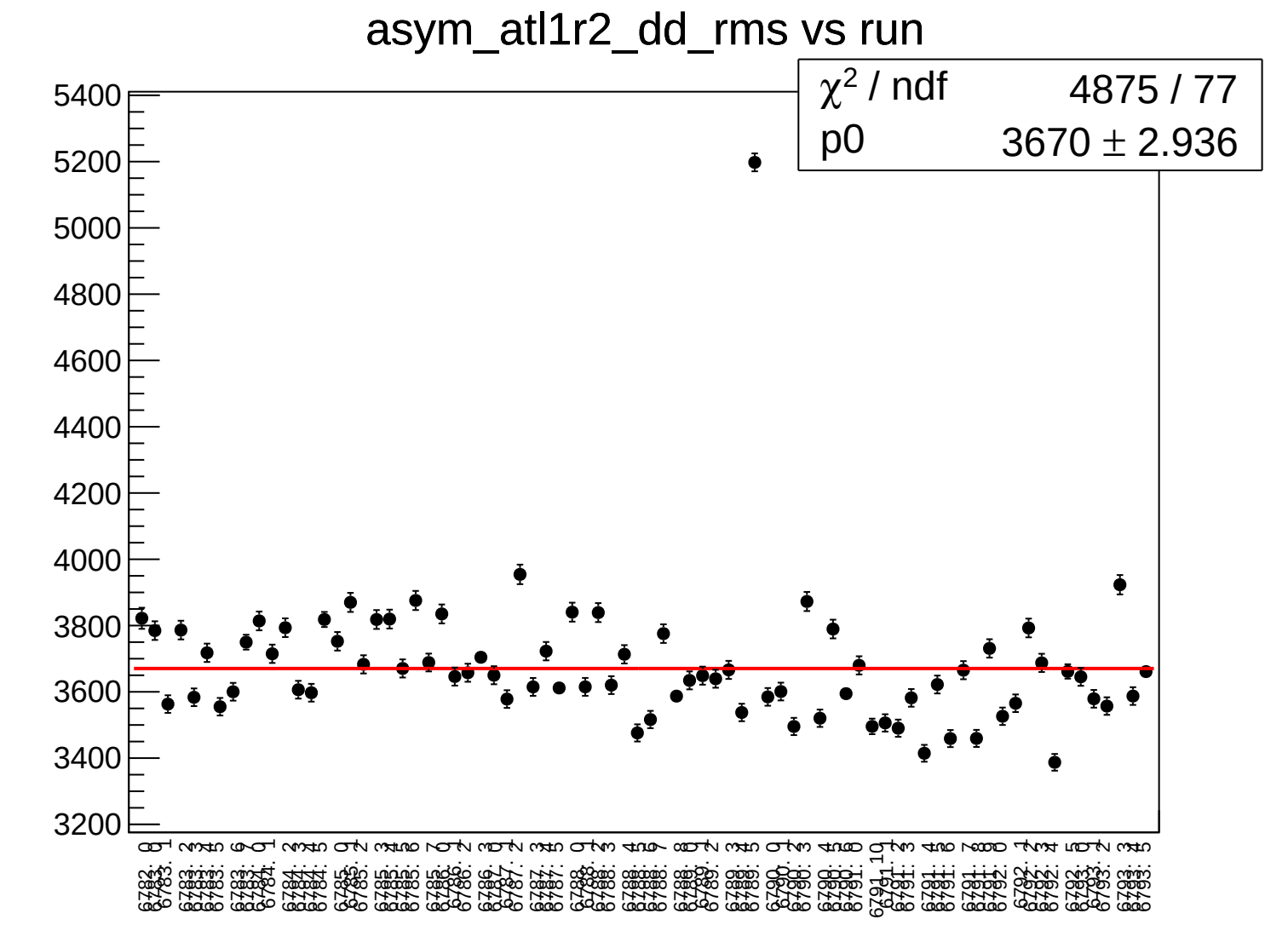

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 62.2 / 77
p0 748.8 ± 3637
100
50
0
−50
−100
pull
Entries 78
Mean −136.7
Std Dev 203.2
3
2
1
0
−1
−2

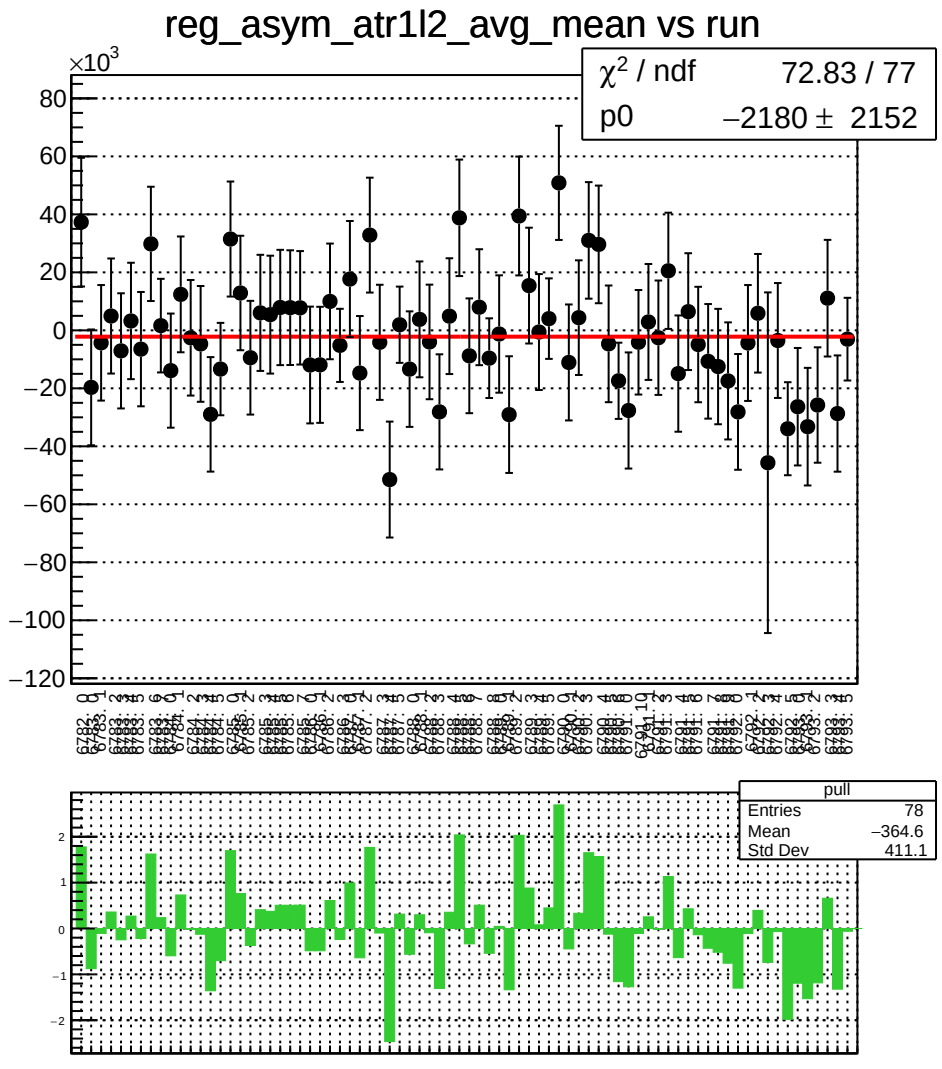

pull1D
Entries 78
Mean 0.004041
Std Dev 0.893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

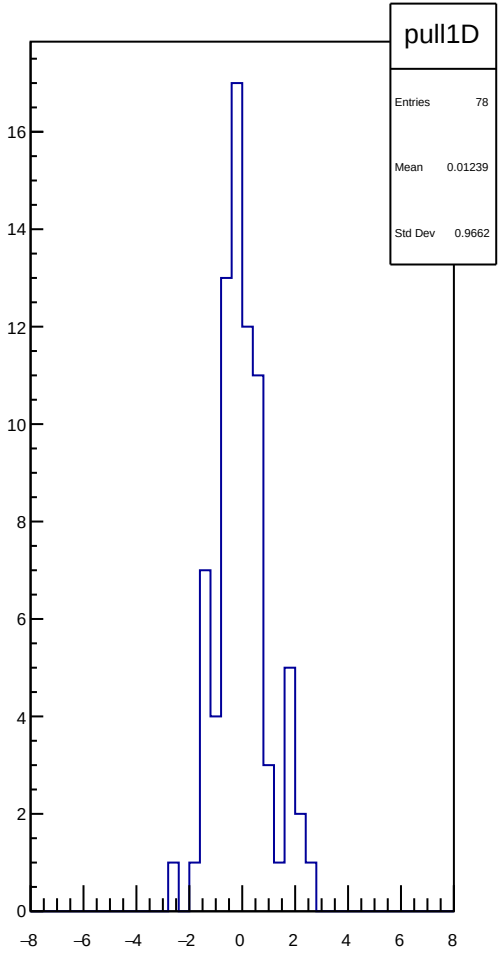

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 2698 / 77
p0 3217 ± 2.572
3600
3500
3400
3300
3200
3100
3000
2900

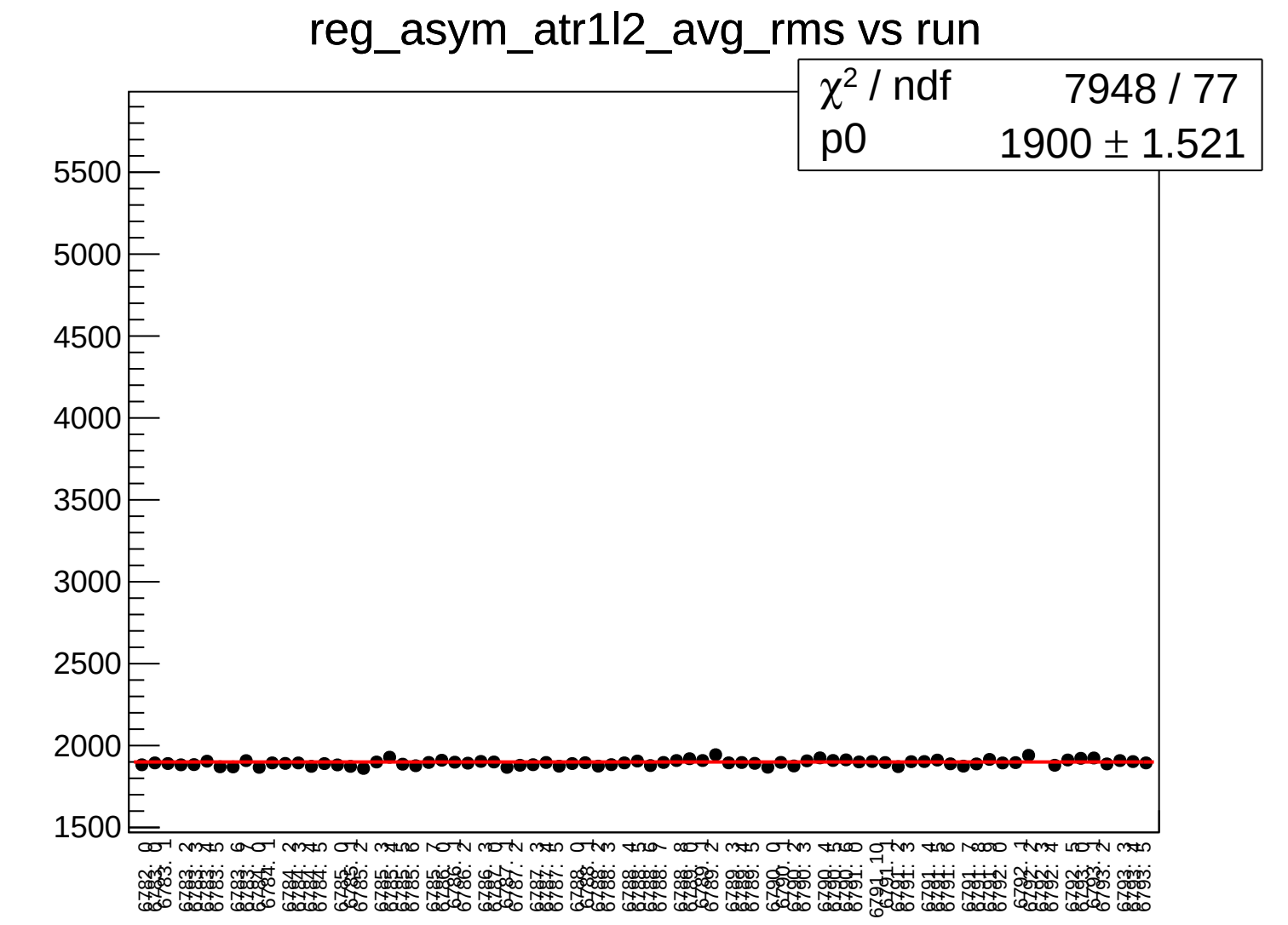

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 70.69 / 77
p0 −57.8 ± 4153
100
50
0
−50
−100
−150
pull
Entries 78
Mean −4191
Std Dev 4242
2
1
0
−1
−2
−3

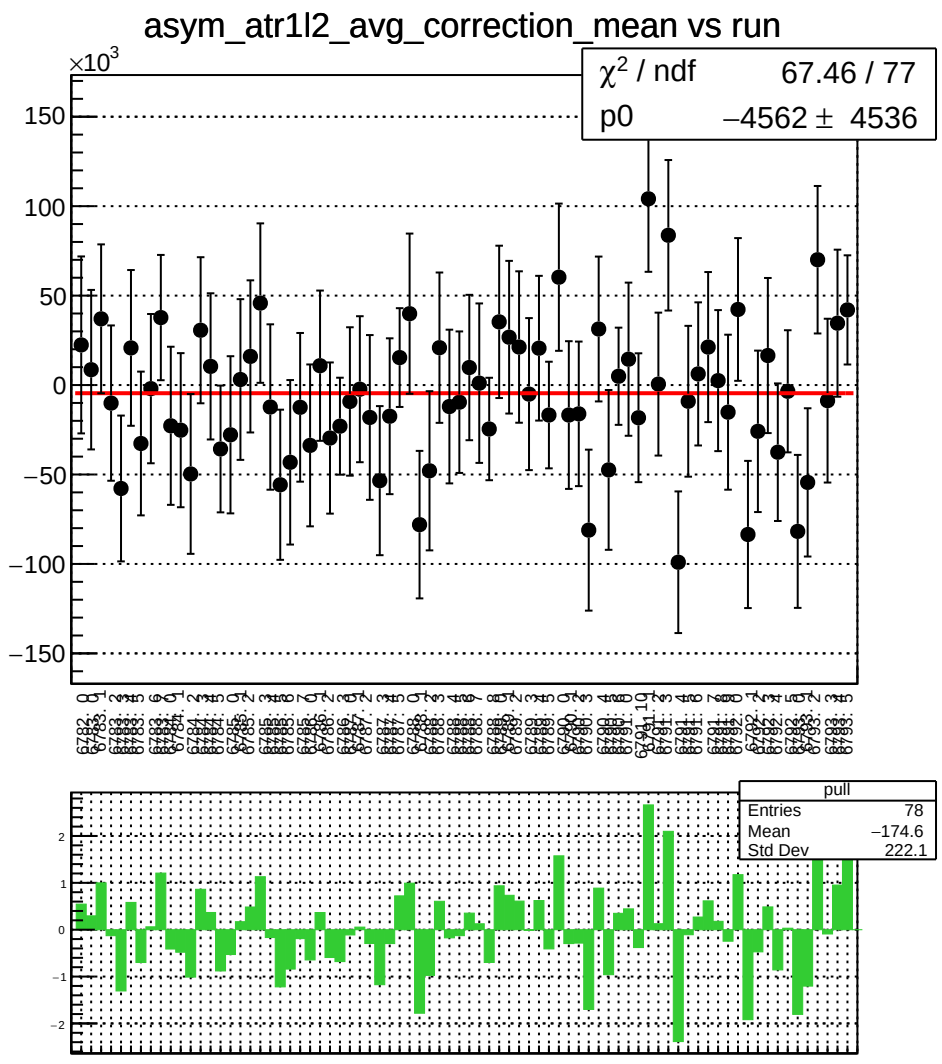

pull1D
Entries 78
Mean −0.0006119
Std Dev 0.952
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

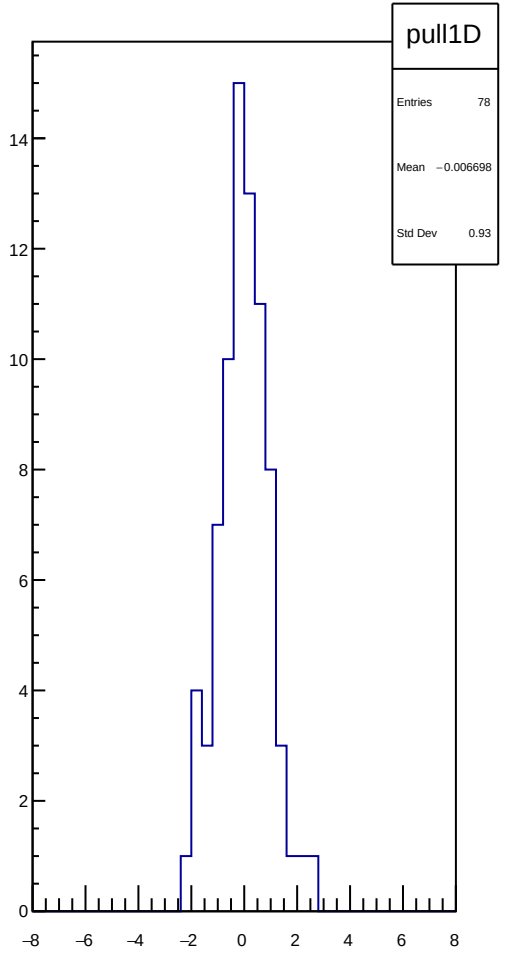

asym_atl1r2_dd_rms vs run
χ^2 / ndf 4875 / 77
p0 3670 ± 2.936
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

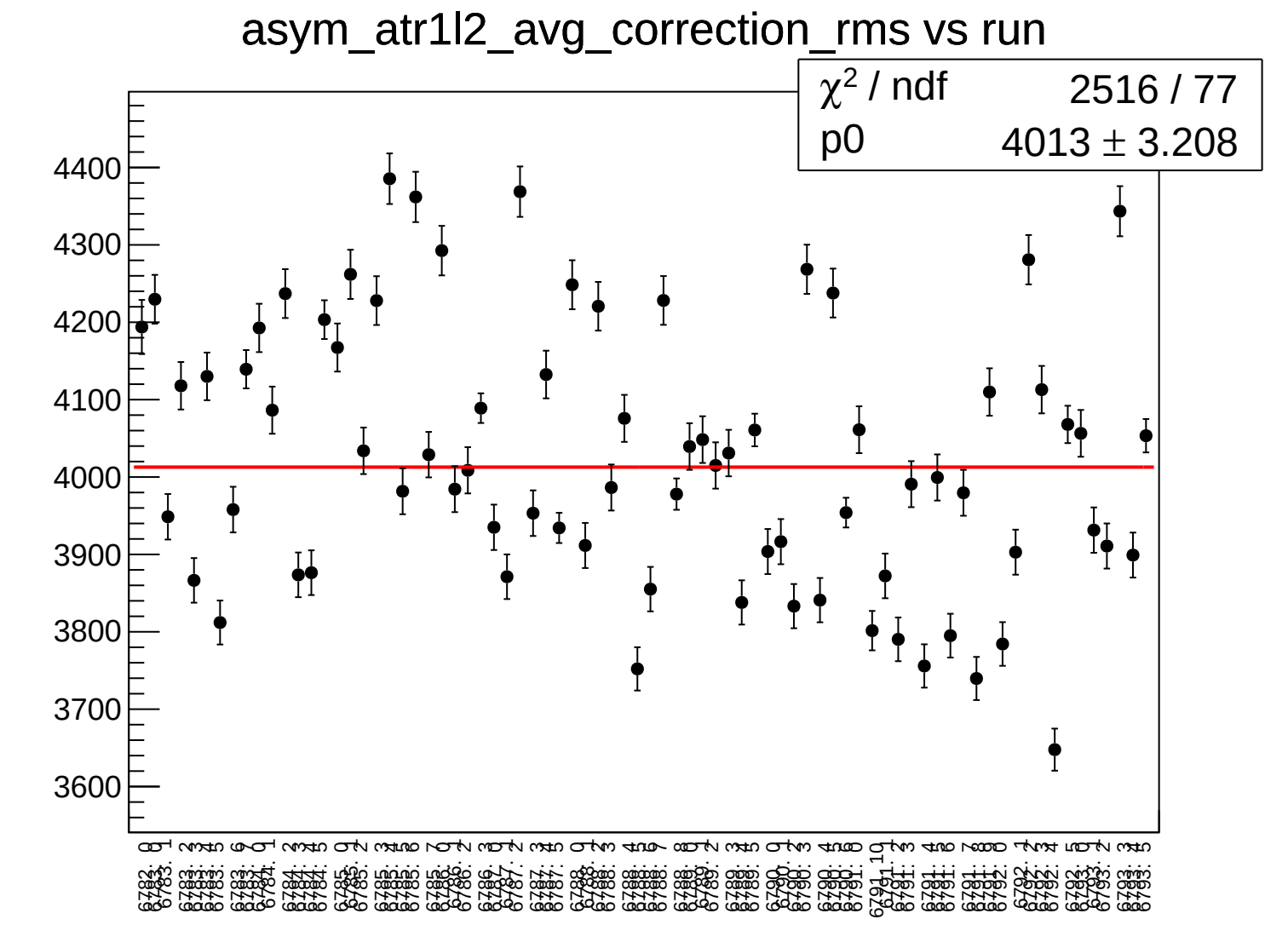

reg_asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 72.83 / 77
p0 −2180 ± 2152
pull
Entries 78
Mean −364.6
Std Dev 411.1

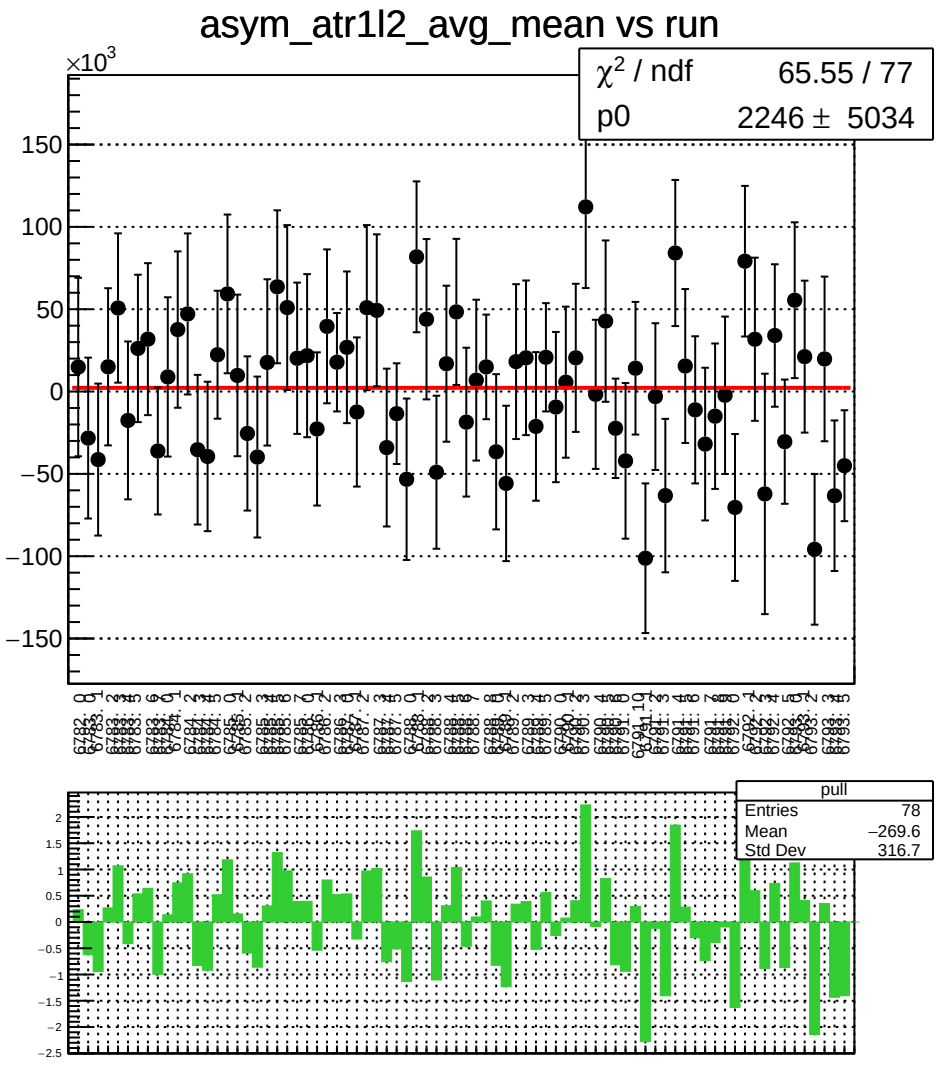

pull1D
Entries 78
Mean 0.01239
Std Dev 0.9662

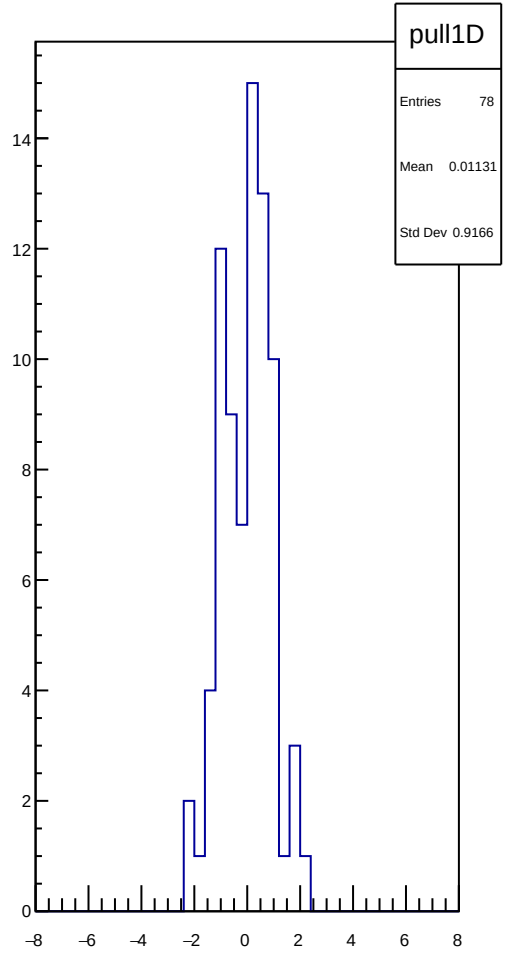

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 7948 / 77
p0 1900 ± 1.521
5500
5000
4500
4000
3500
3000
2500
2000
1500

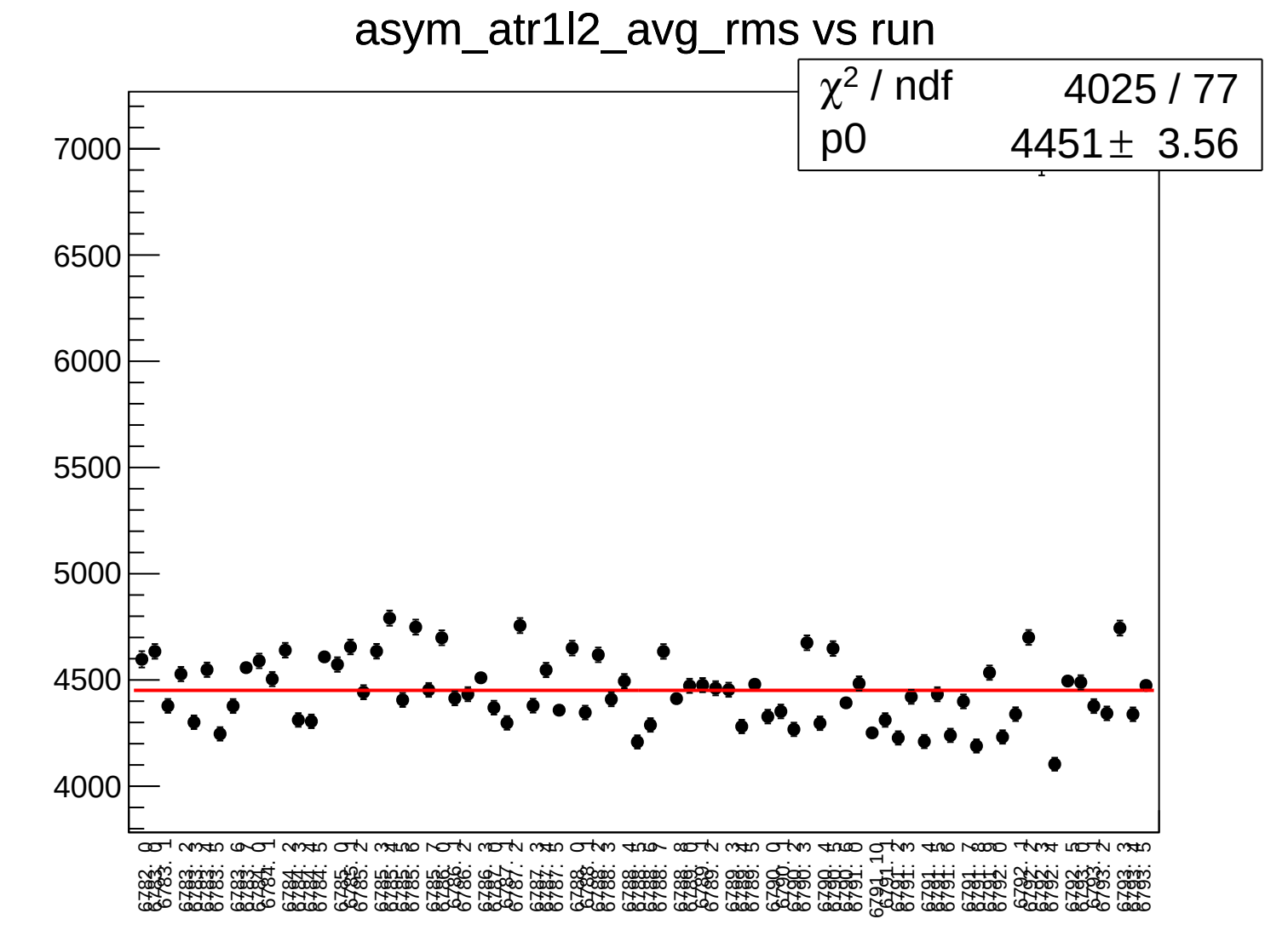

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 67.46 / 77
p0 −4562 ± 4536
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −174.6
Std Dev 222.1
2
1
0
−1
−2

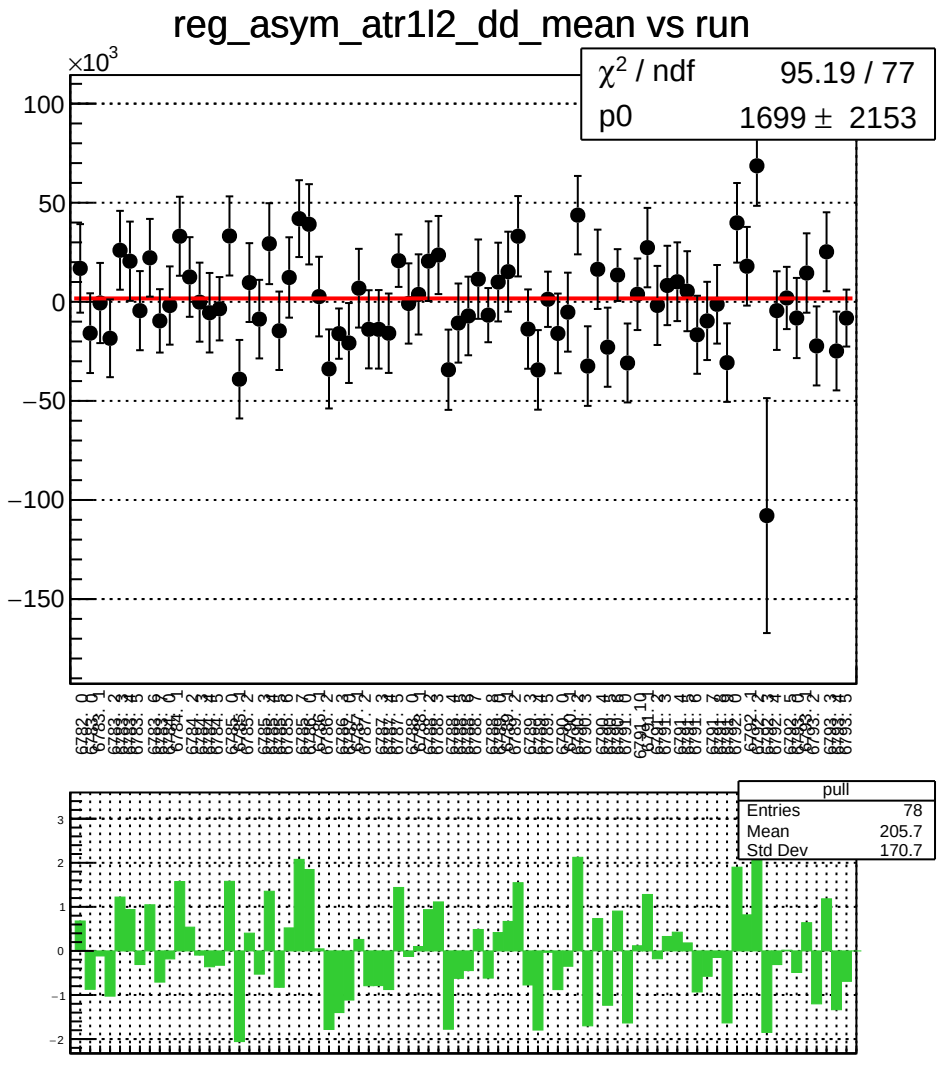

pull1D
Entries 78
Mean −0.006698
Std Dev 0.93
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

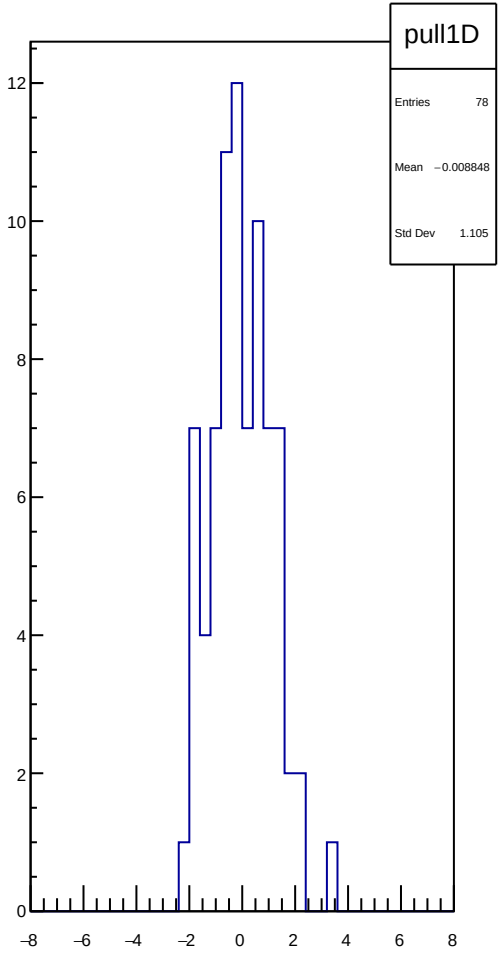

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 2516 / 77
p0 4013 ± 3.208
4400
4300
4200
4100
4000
3900
3800
3700
3600

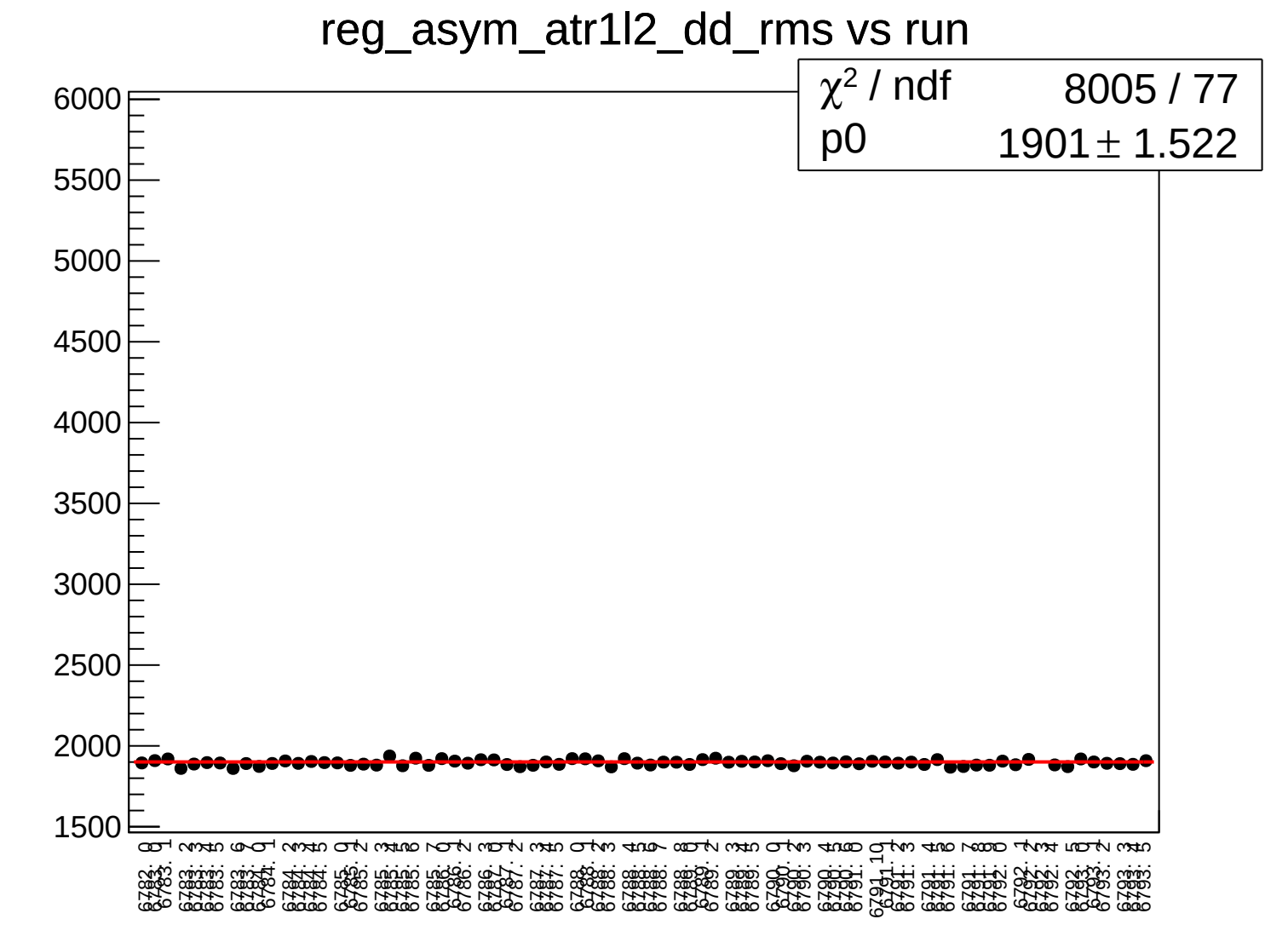

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 65.55 / 77
p0 2246 ± 5034
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −269.6
Std Dev 316.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

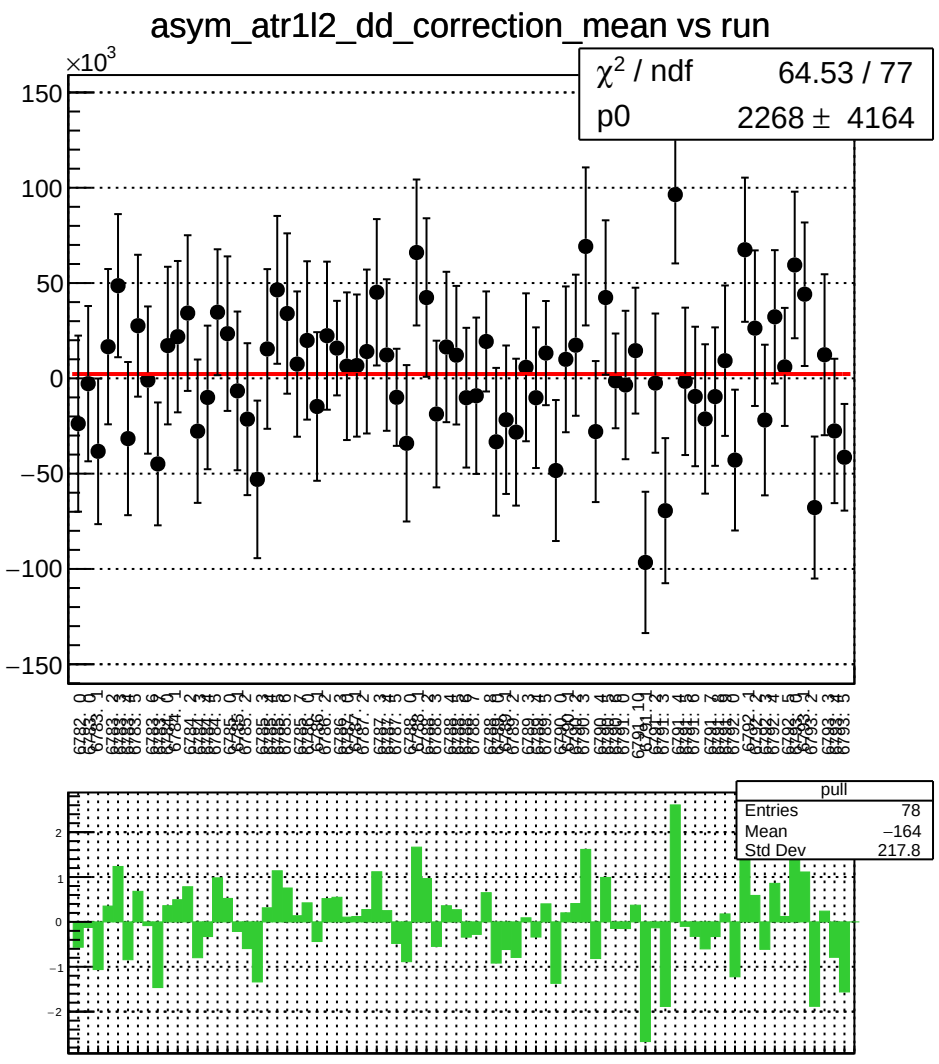

pull1D
Entries 78
Mean 0.01131
Std Dev 0.9166
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

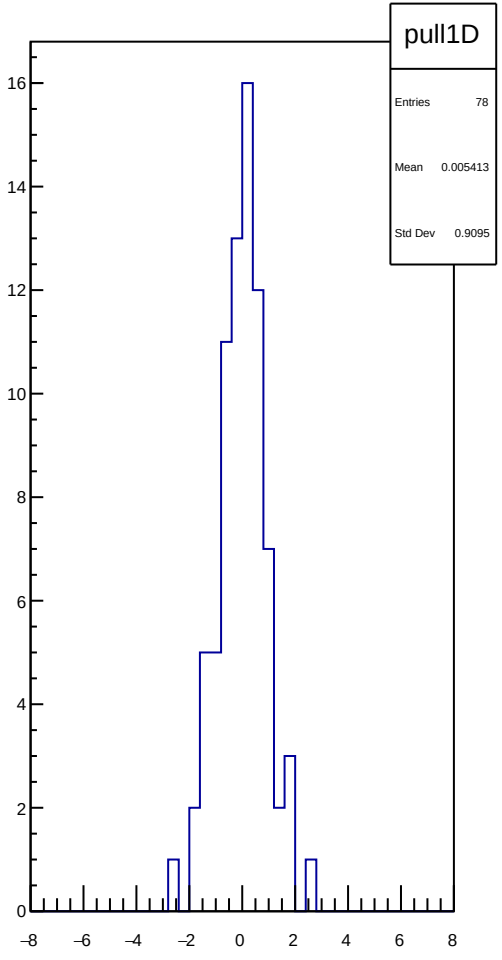

asym_atr1l2_avg_rms vs run
χ² / ndf 4025 / 77
p0 4451 ± 3.56
7000
6500
6000
5500
5000
4500
4000

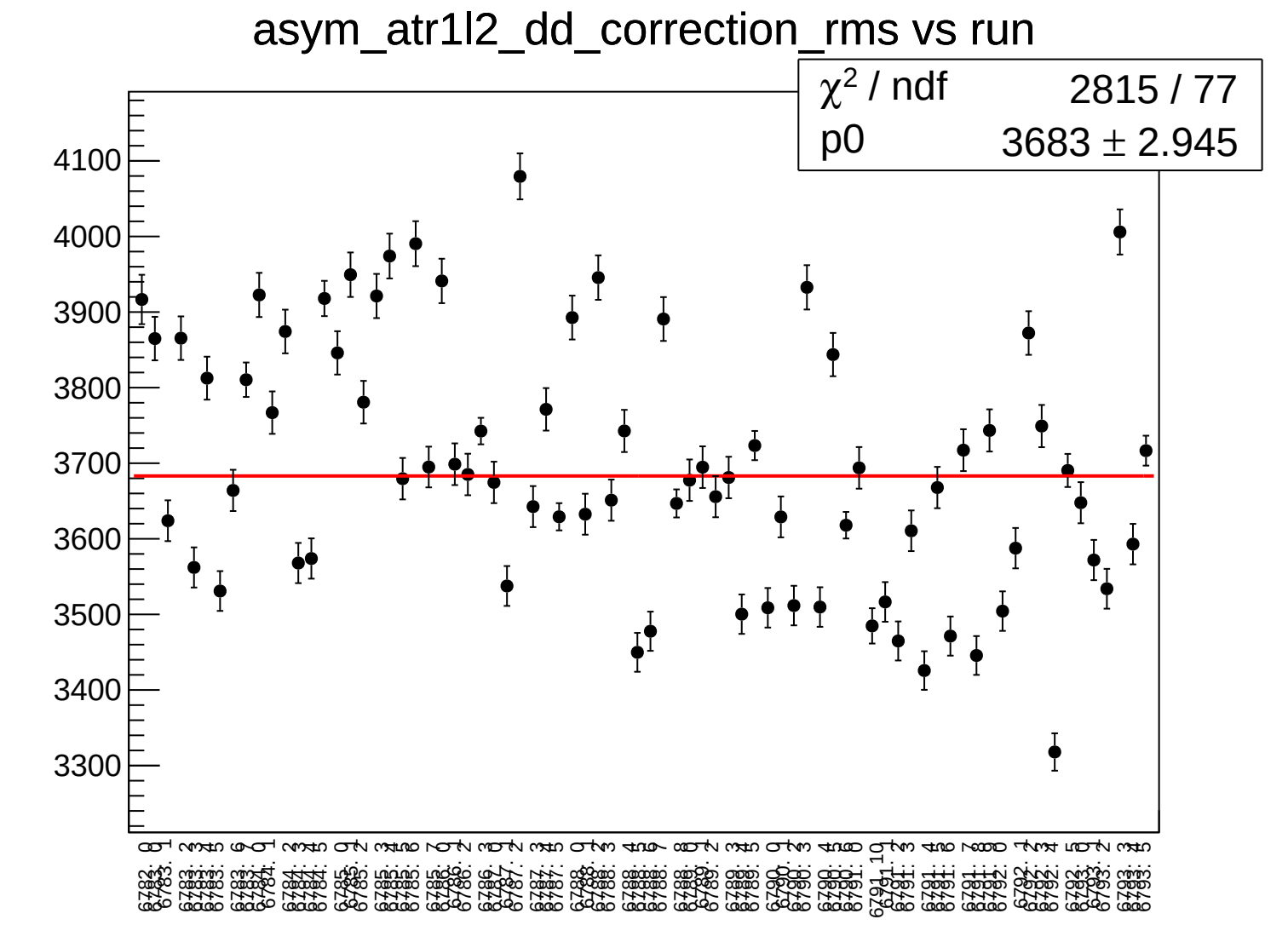

reg_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 95.19 / 77
p0 1699 ± 2153
100
50
0
−50
−100
−150
pull
Entries 78
Mean 205.7
Std Dev 170.7
3
2
1
0
−1
−2

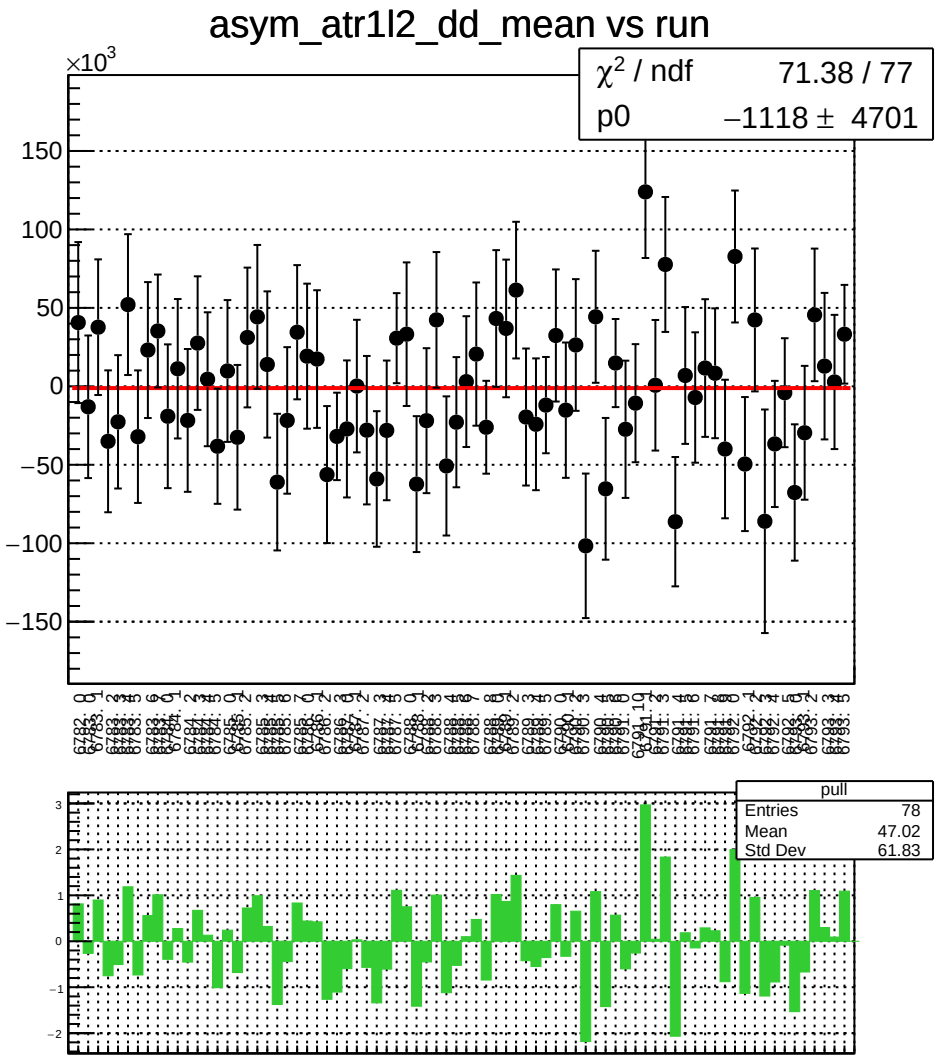

pull1D
Entries 78
Mean −0.008848
Std Dev 1.105
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

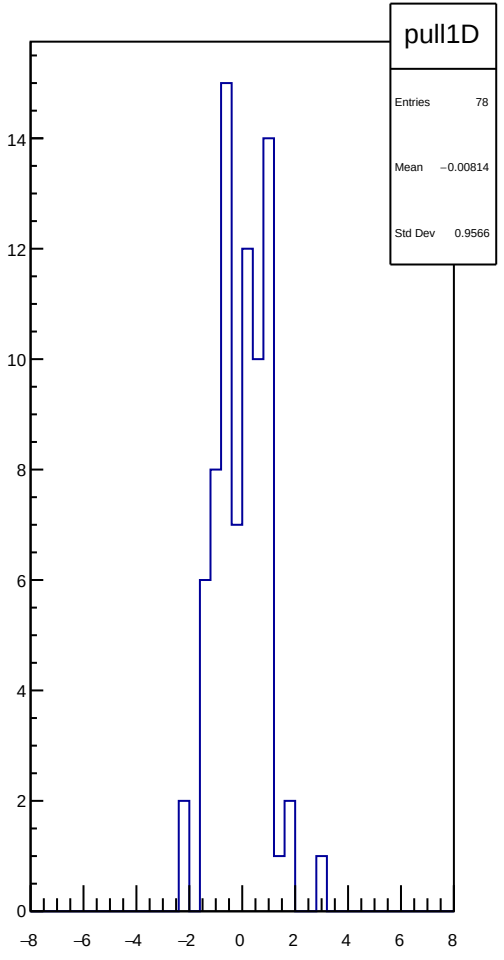

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 8005 / 77
p0 1901 ± 1.522
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

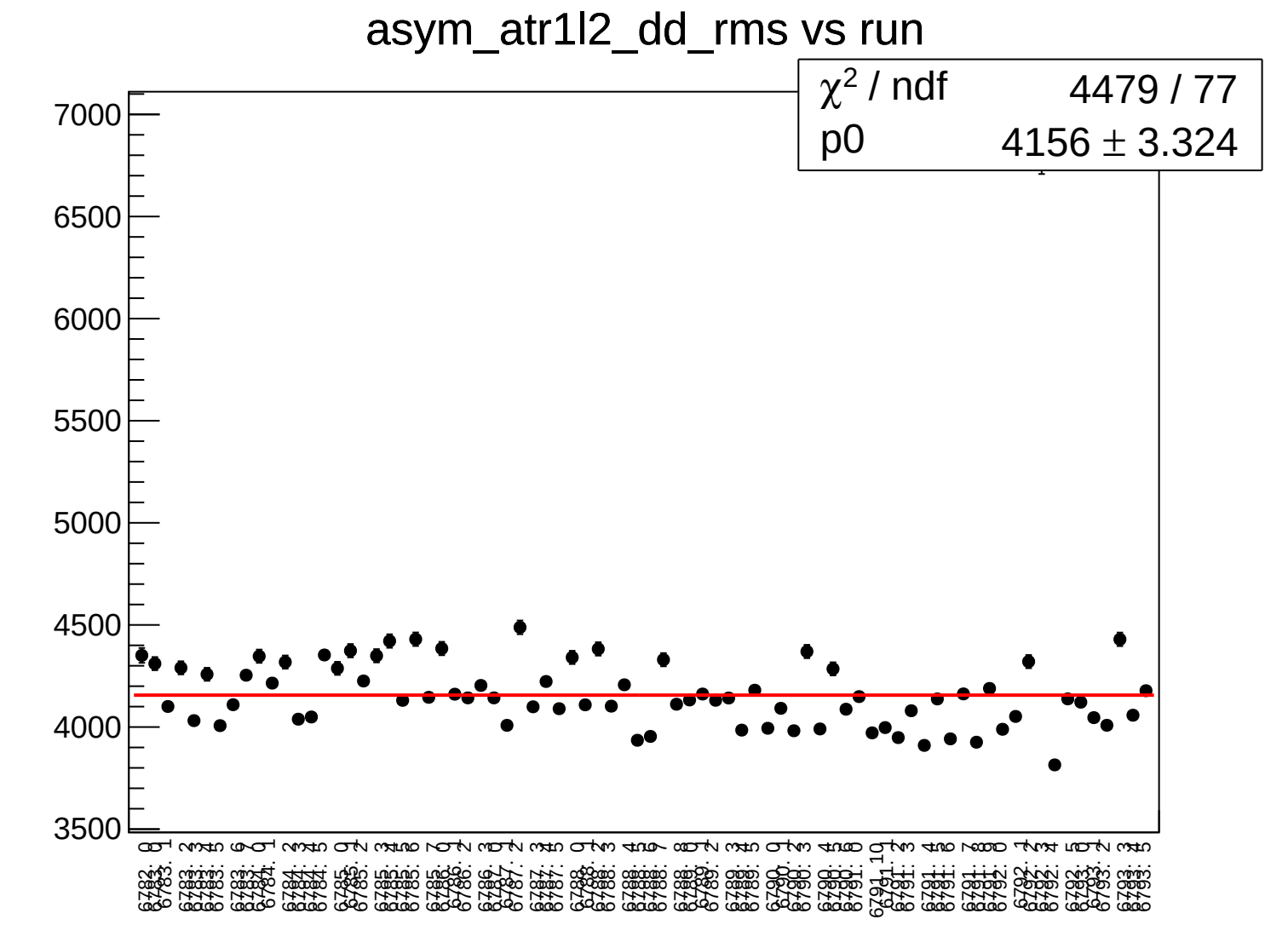

asym_atr1l2_dd_correction_mean vs run
×10^3
χ^2 / ndf 64.53 / 77
p0 2268 ± 4164
pull
Entries 78
Mean −164
Std Dev 217.8

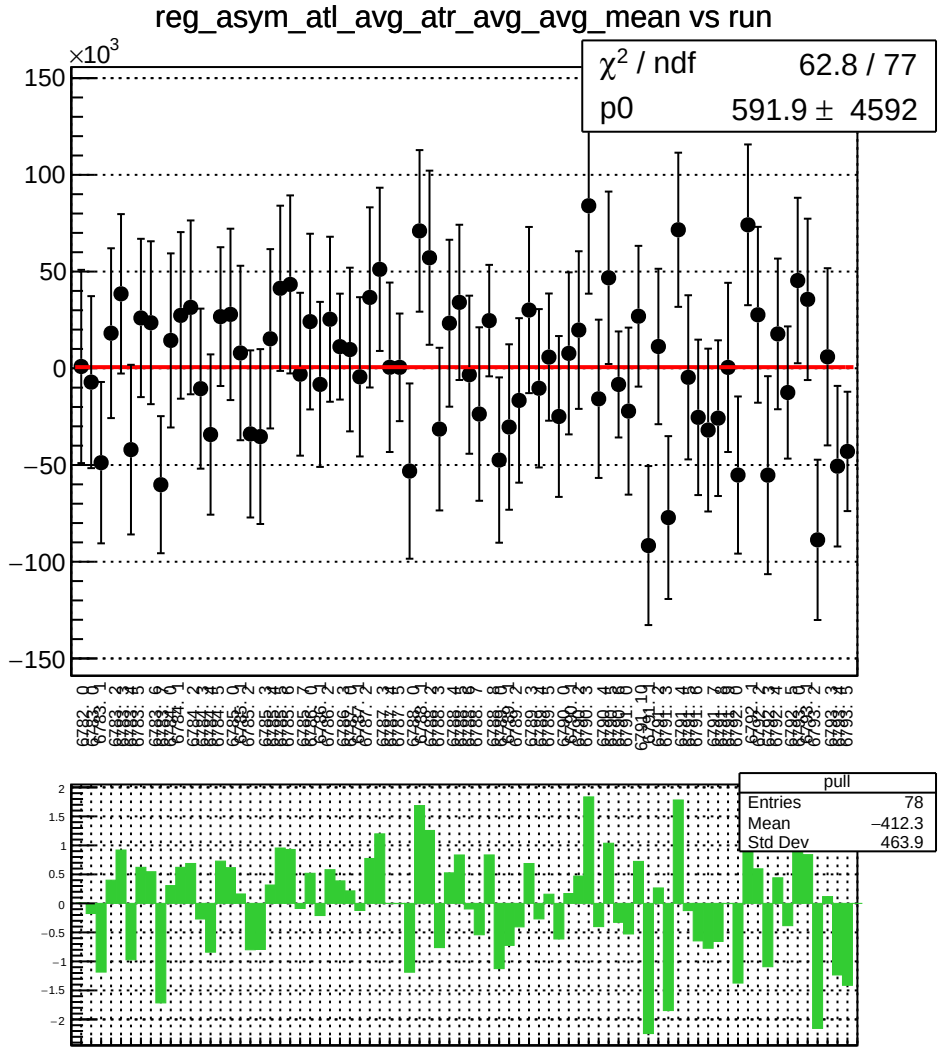

pull1D
Entries 78
Mean 0.005413
Std Dev 0.9095

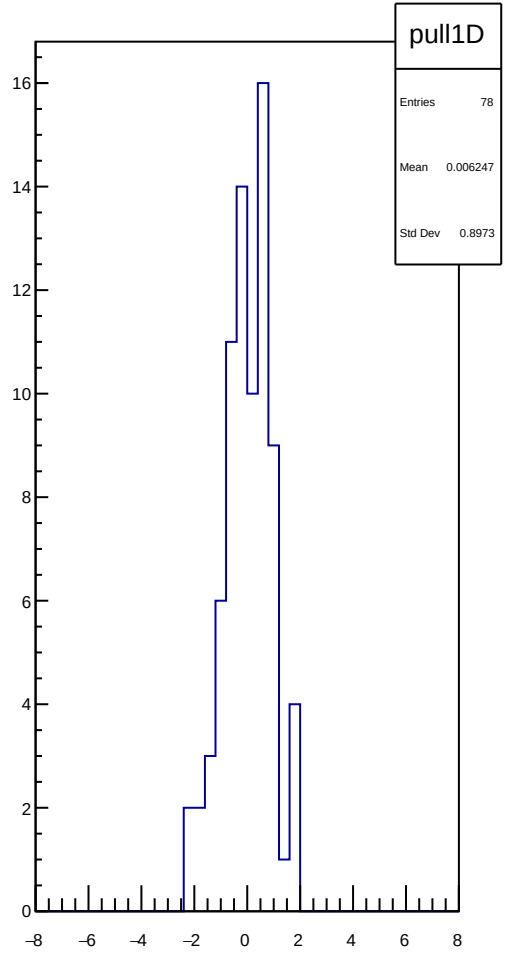

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 2815 / 77
p0 3683 ± 2.945
4100
4000
3900
3800
3700
3600
3500
3400
3300

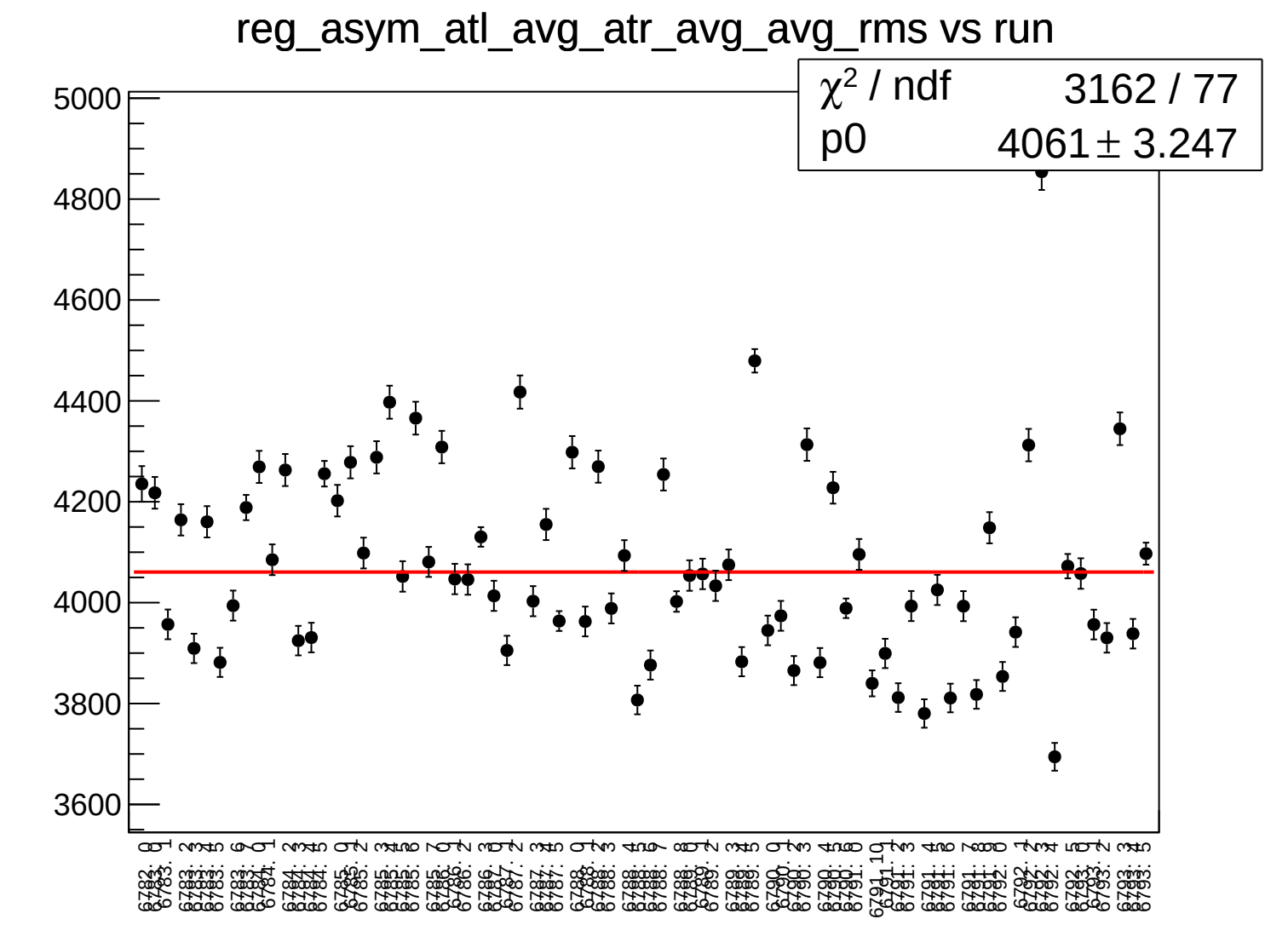

asym_atr1l2_dd_mean vs run
χ² / ndf 71.38 / 77
p0 −1118 ± 4701
pull
Entries 78
Mean 47.02
Std Dev 61.83

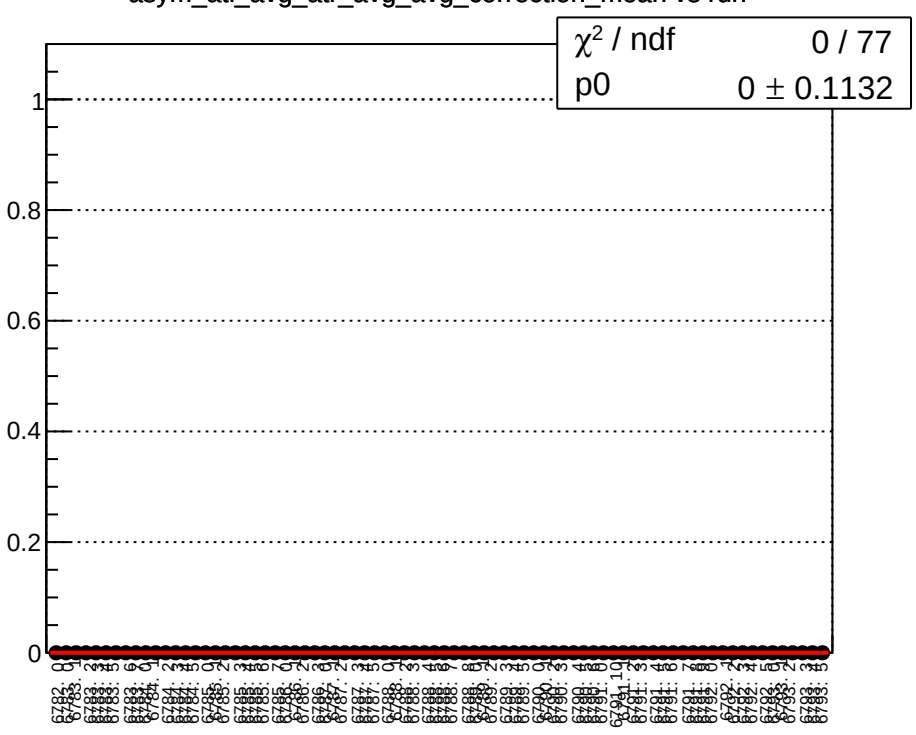

pull1D
Entries 78
Mean −0.00814
Std Dev 0.9566

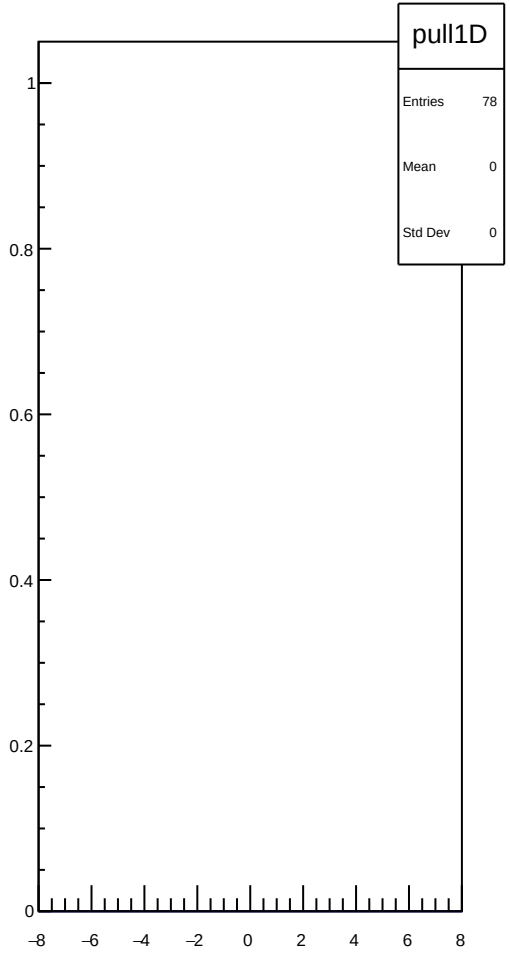

asym_atr1l2_dd_rms vs run
χ^2 / ndf 4479 / 77
p0 4156 ± 3.324
7000
6500
6000
5500
5000
4500
4000
3500

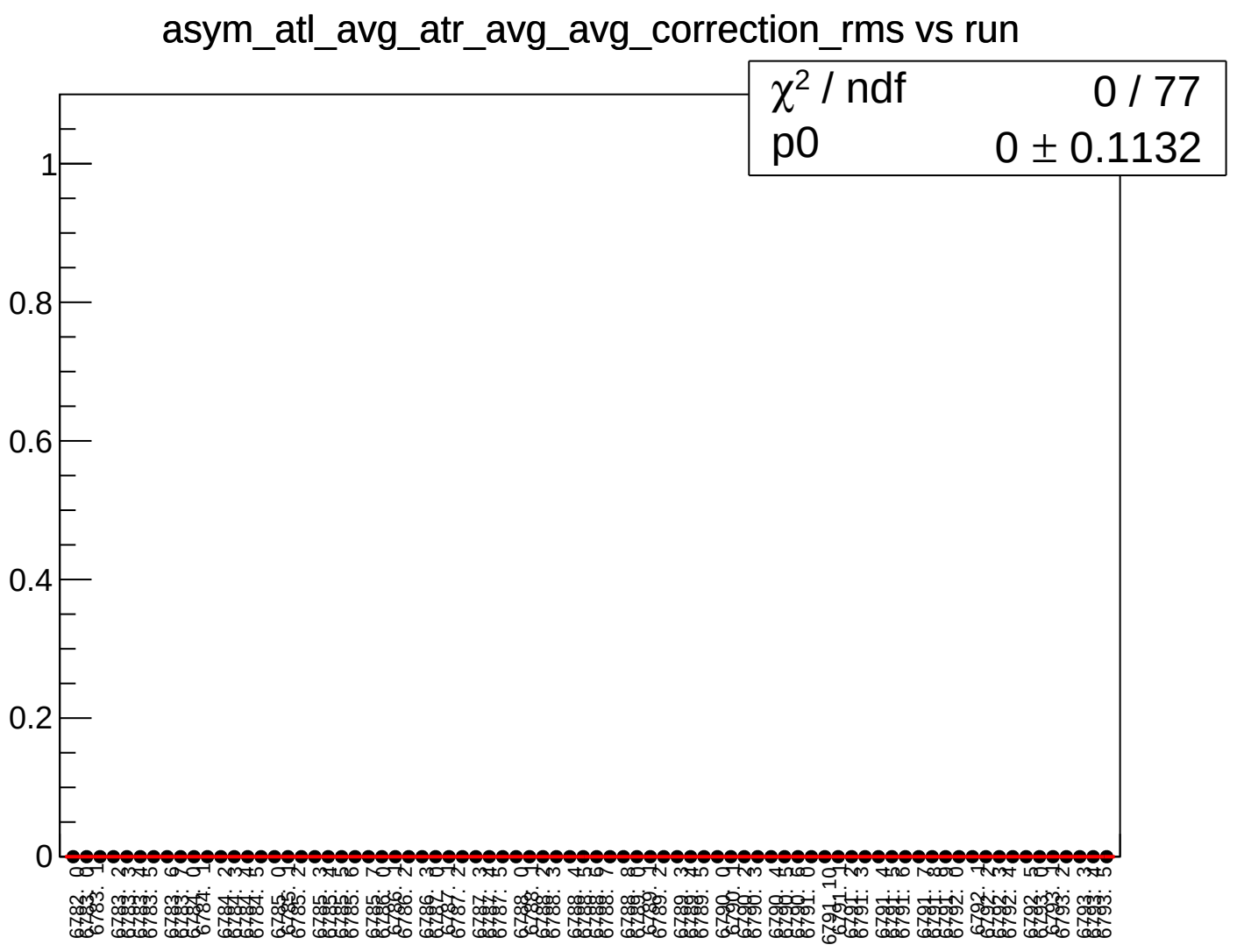

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 62.8 / 77
p0 591.9 ± 4592
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −412.3
Std Dev 463.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

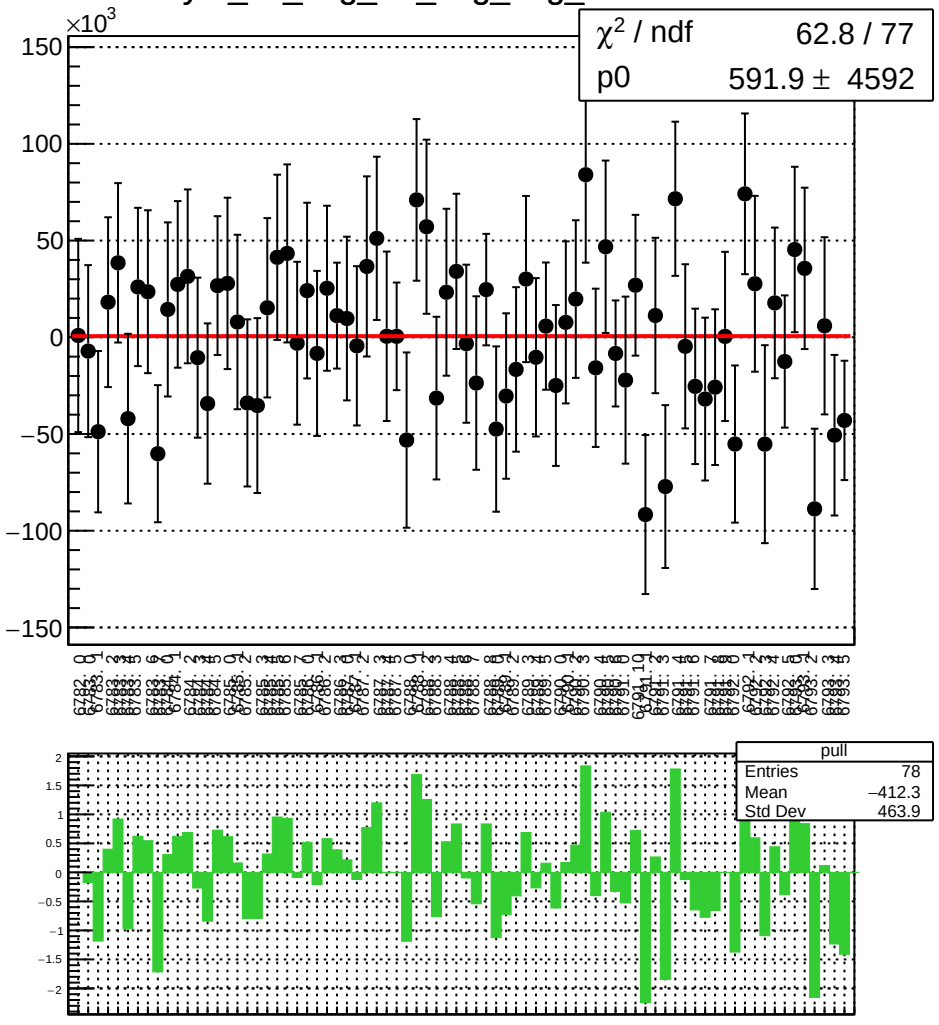

pull1D
Entries 78
Mean 0.006247
Std Dev 0.8973
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

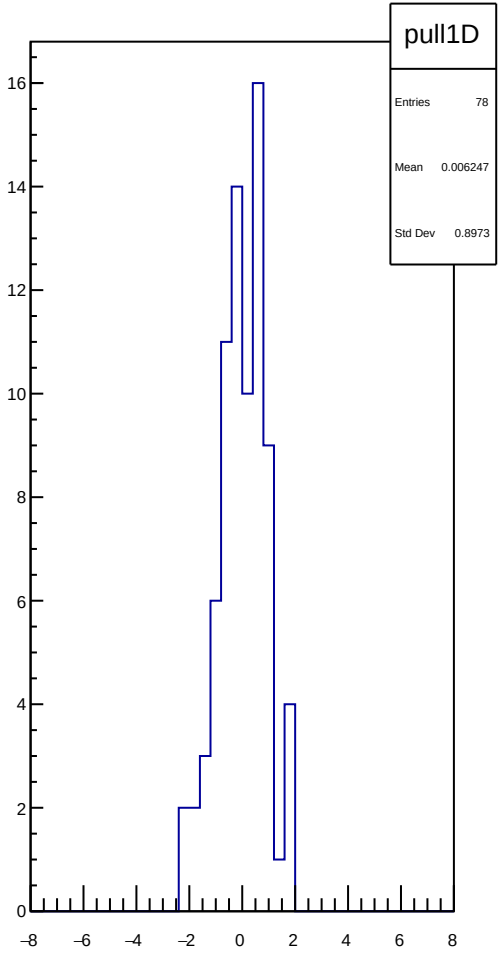

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3162 / 77
p0 4061 ± 3.247
5000
4800
4600
4400
4200
4000
3800
3600

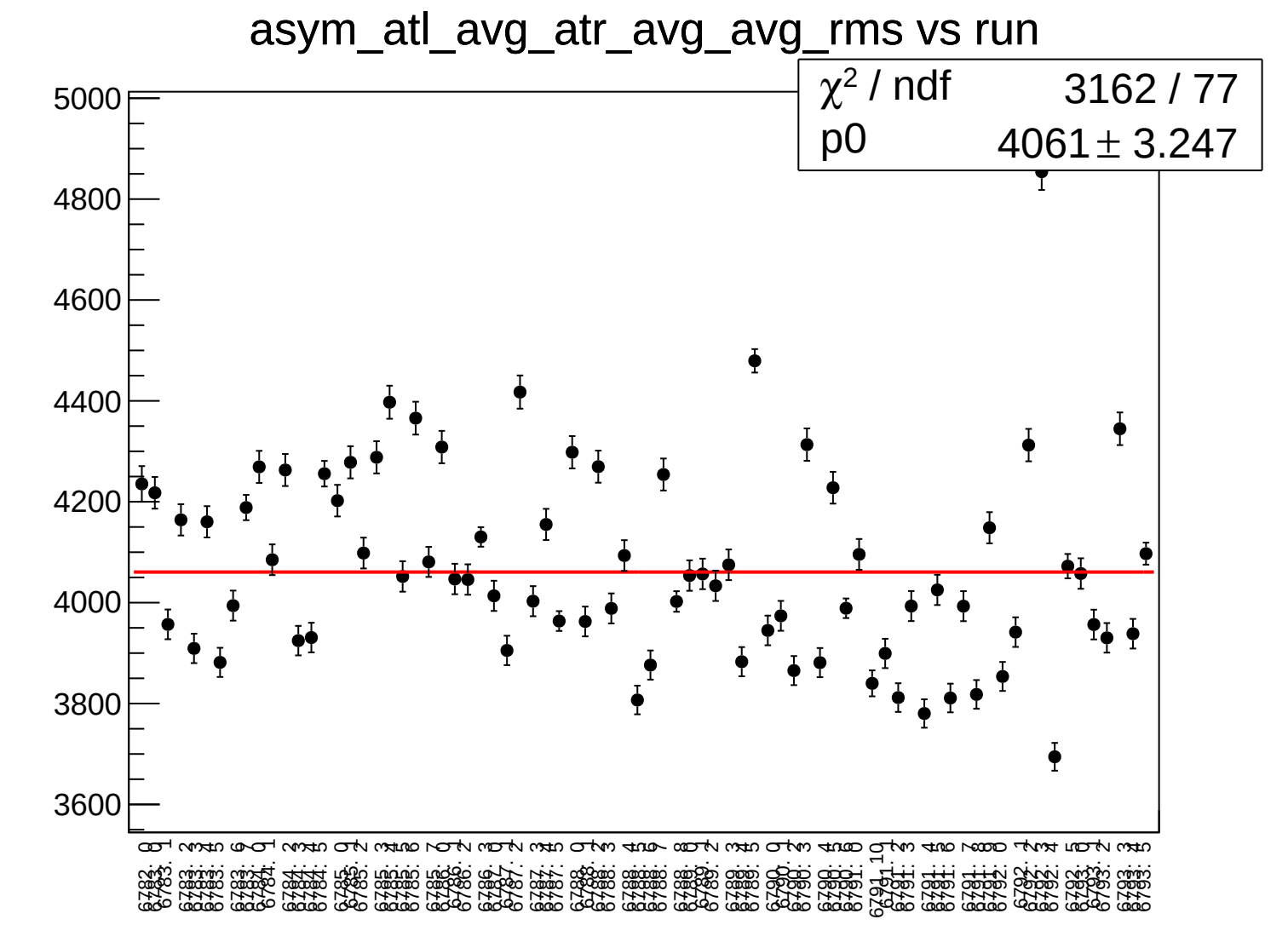

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

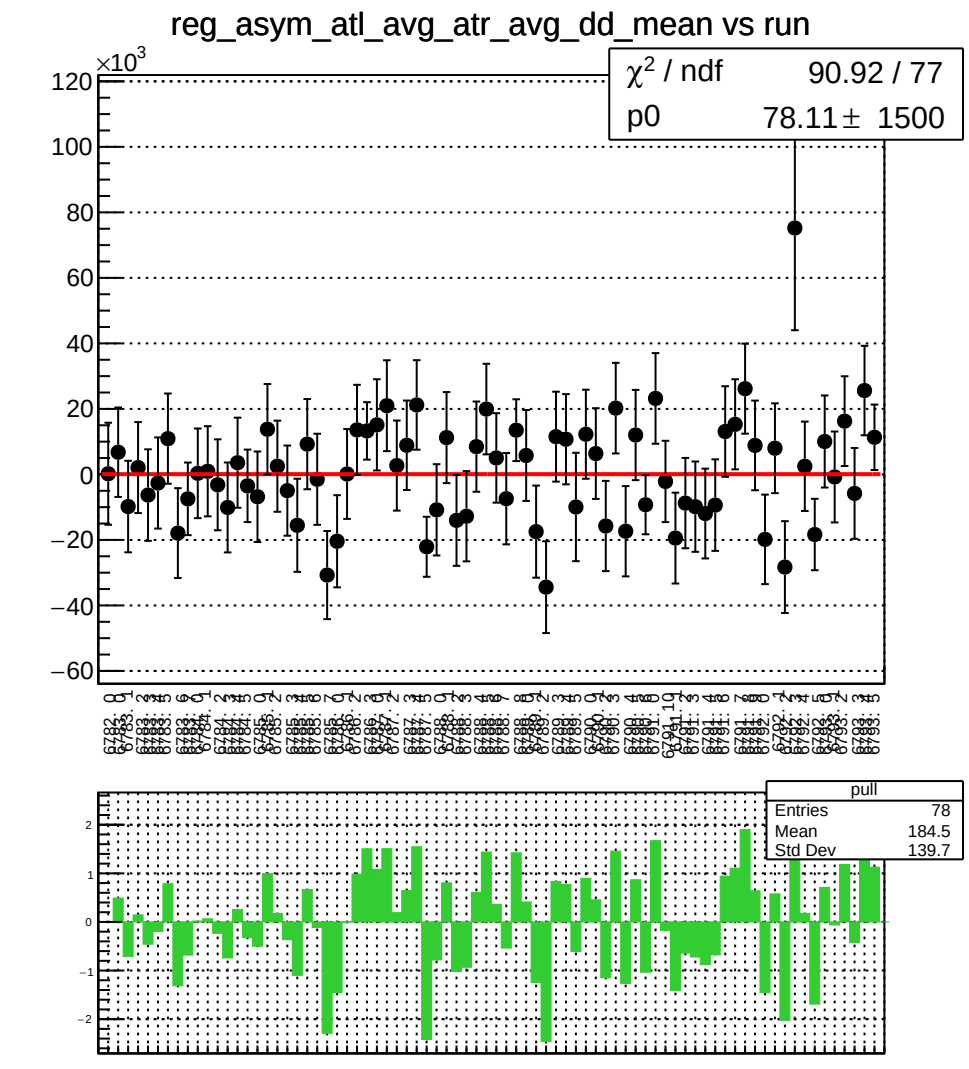

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

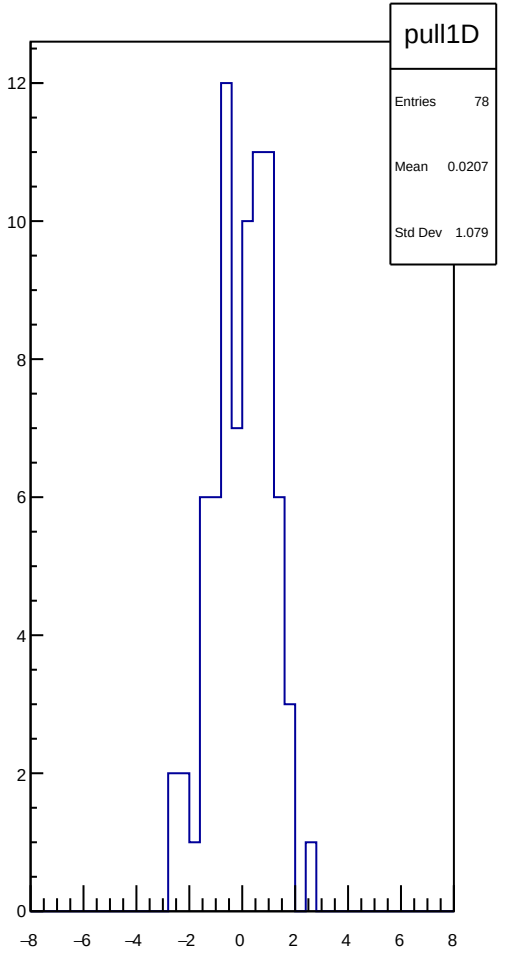

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

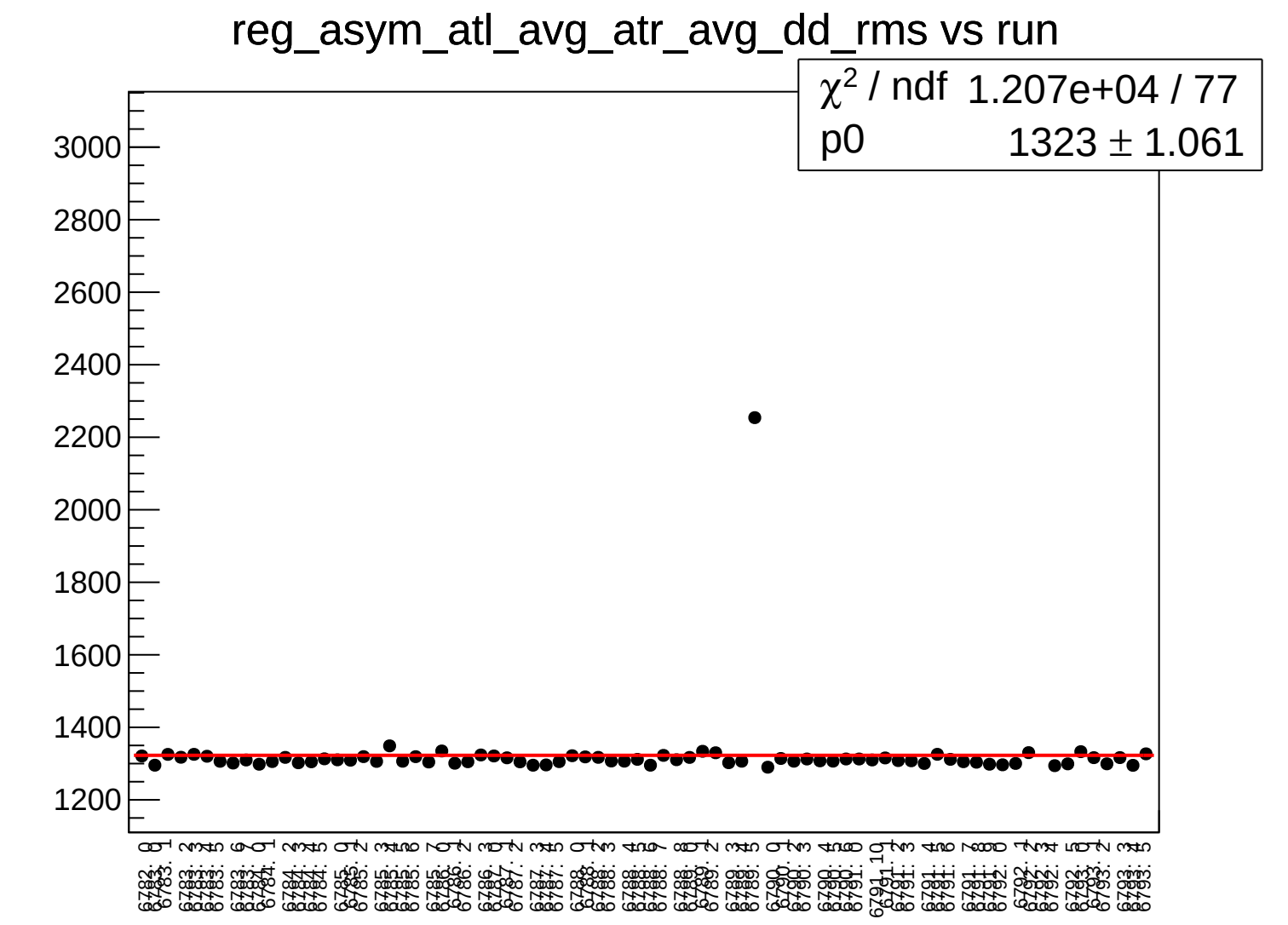

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 62.8 / 77
p0 591.9 ± 4592
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −412.3
Std Dev 463.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

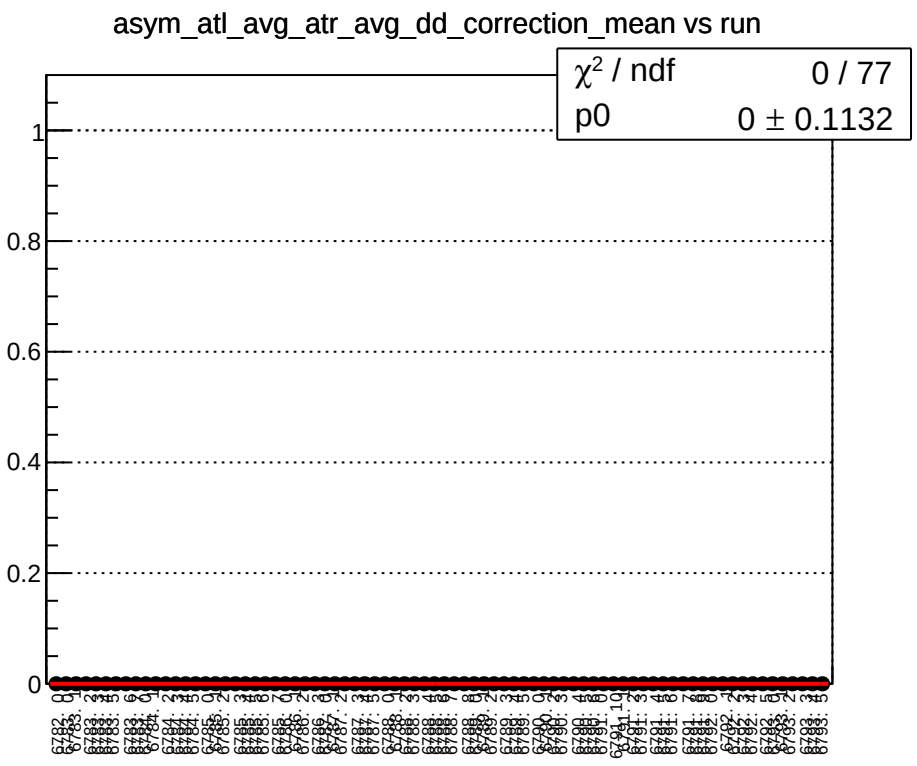

pull1D
Entries 78
Mean 0.006247
Std Dev 0.8973
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

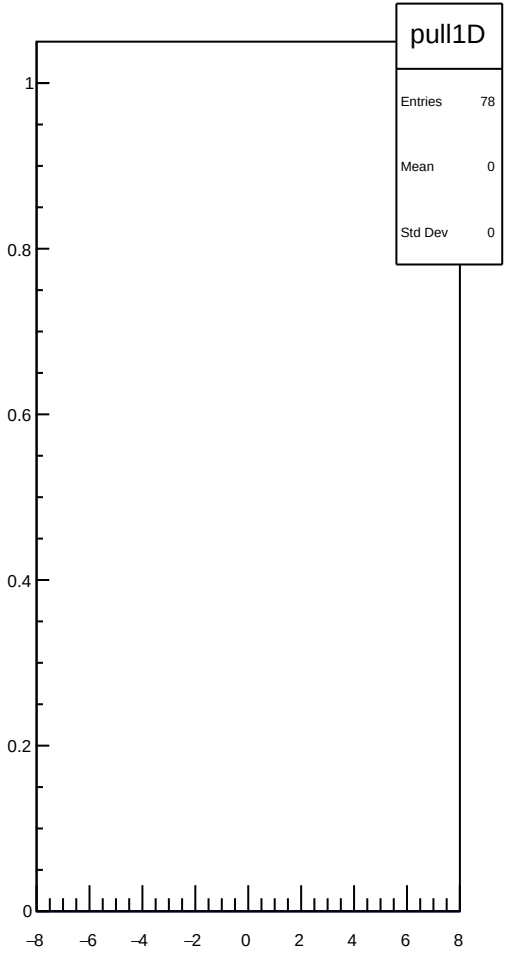

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3162 / 77
p0 4061 ± 3.247
5000
4800
4600
4400
4200
4000
3800
3600

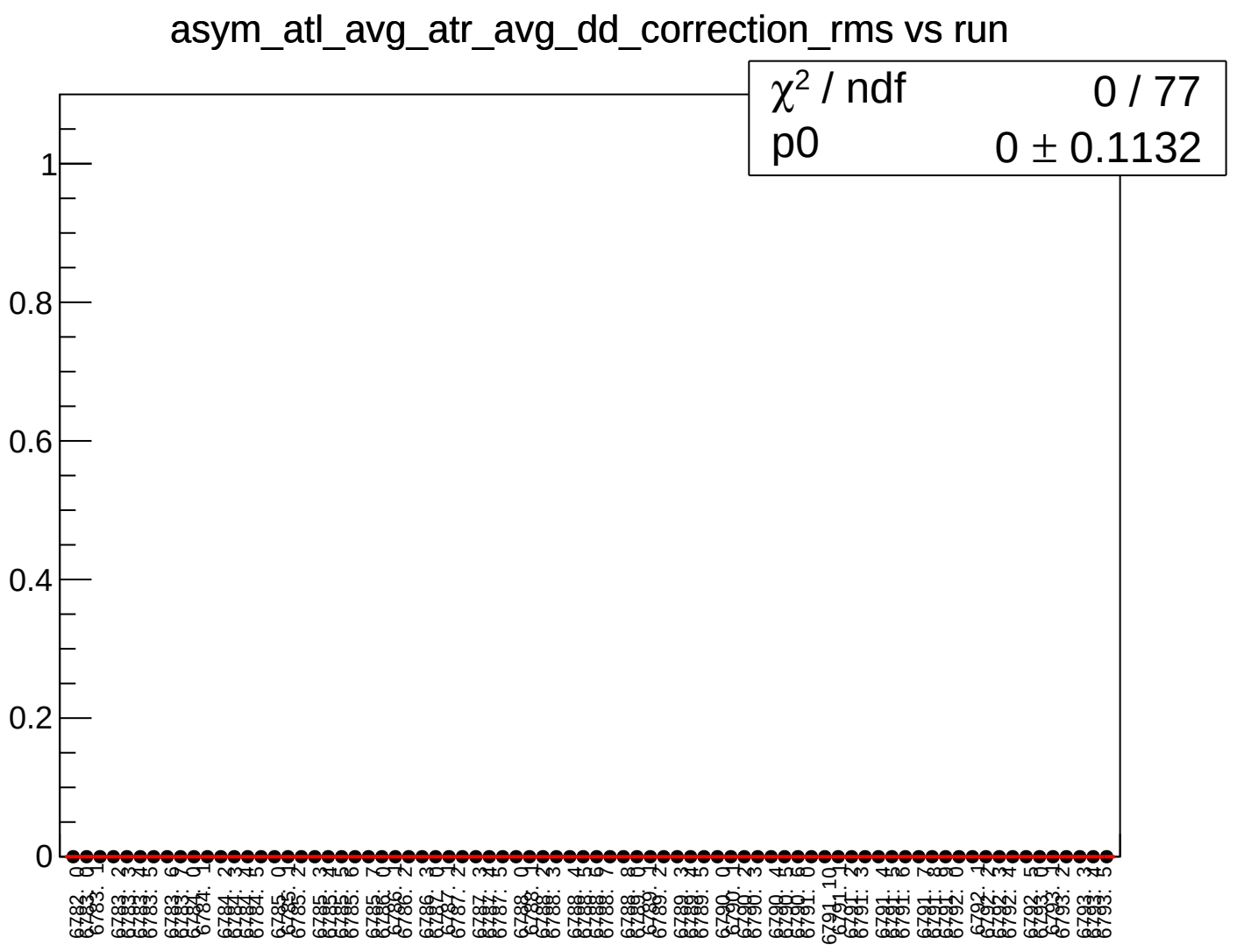

reg_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 90.92 / 77
p0 78.11 ± 1500
pull
Entries 78
Mean 184.5
Std Dev 139.7

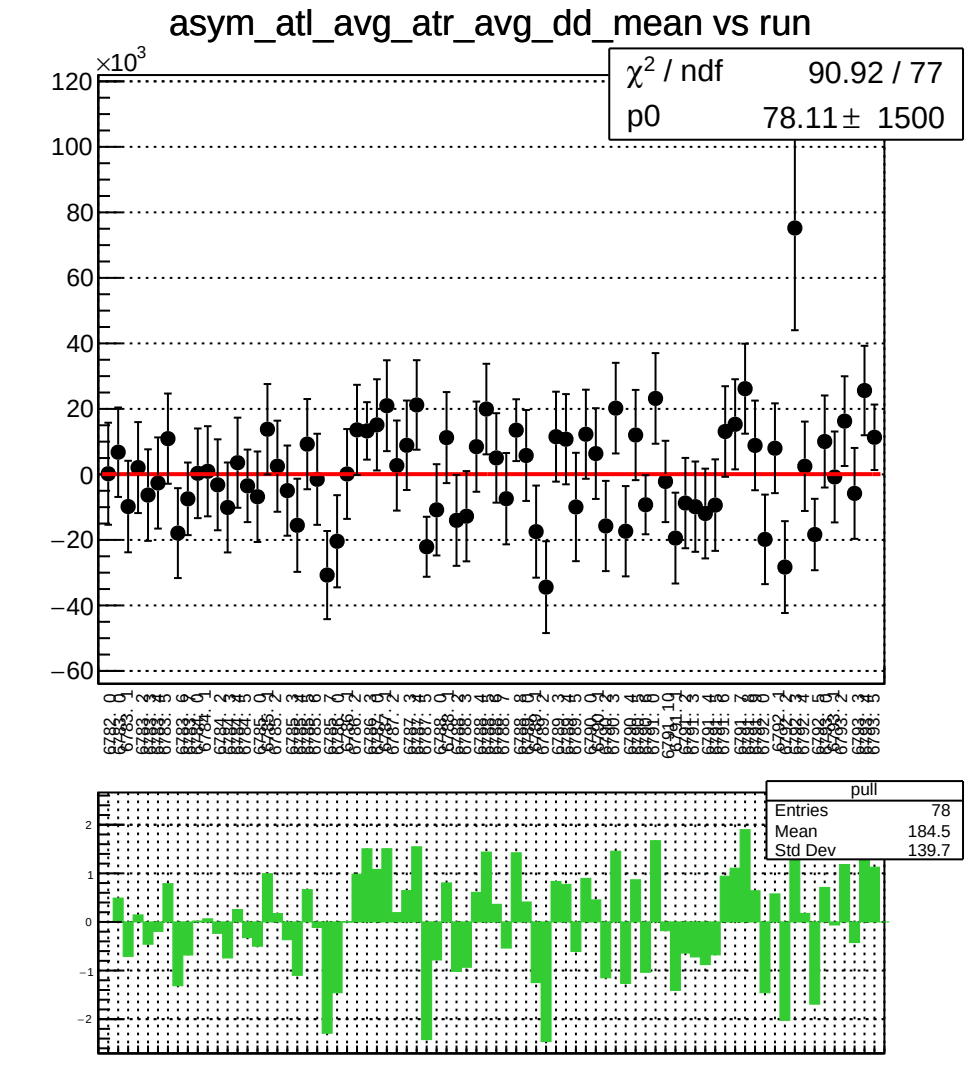

pull1D
Entries 78
Mean 0.0207
Std Dev 1.079

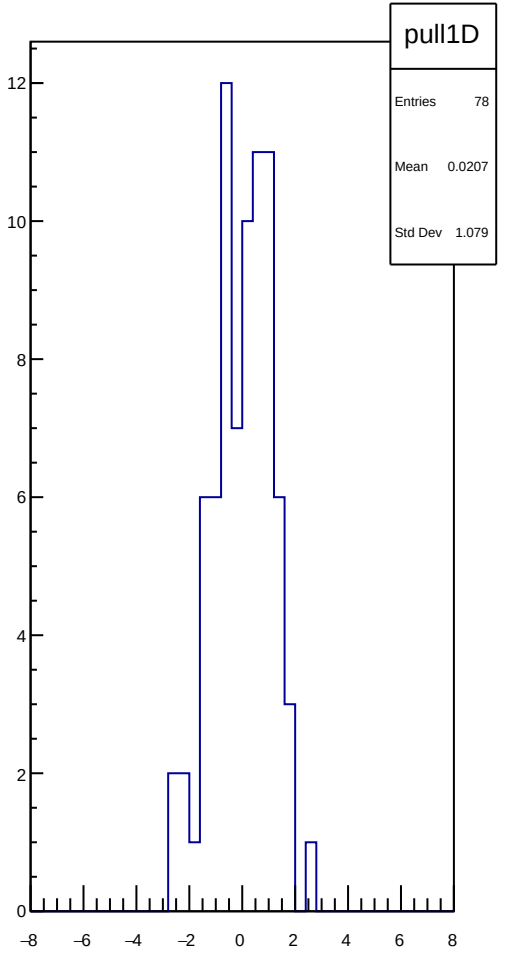

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ^2 / ndf 1.207e+04 / 77
p0 1323 ± 1.061
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

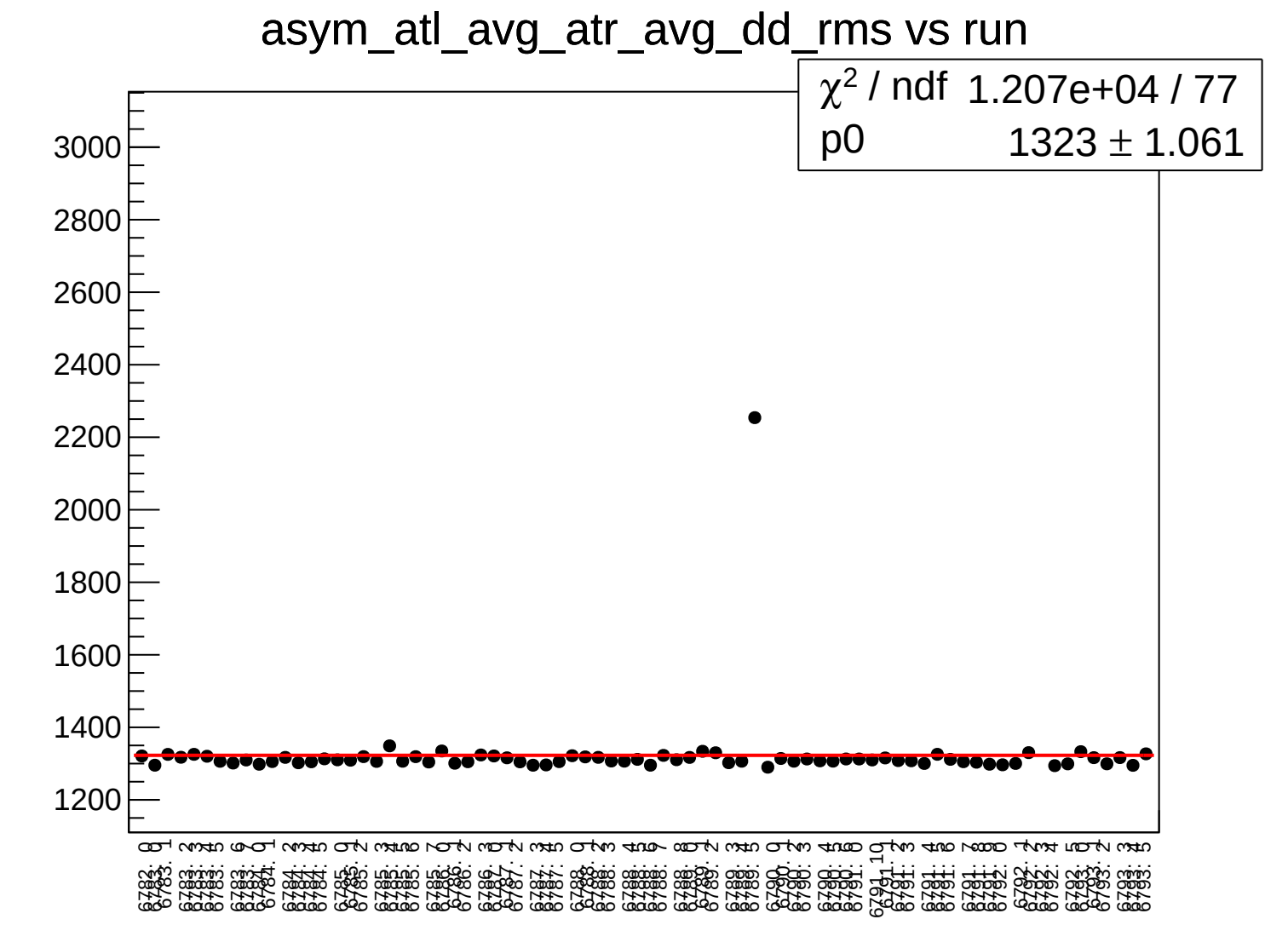

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

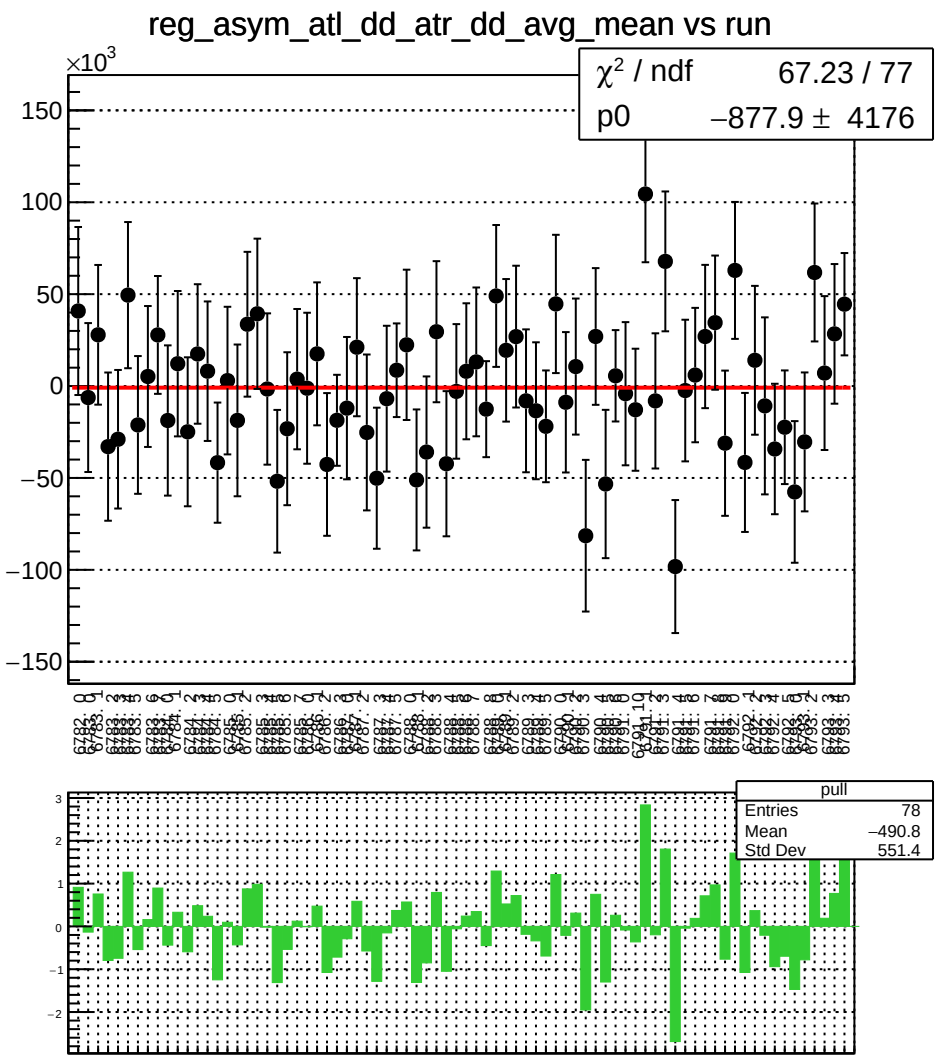

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

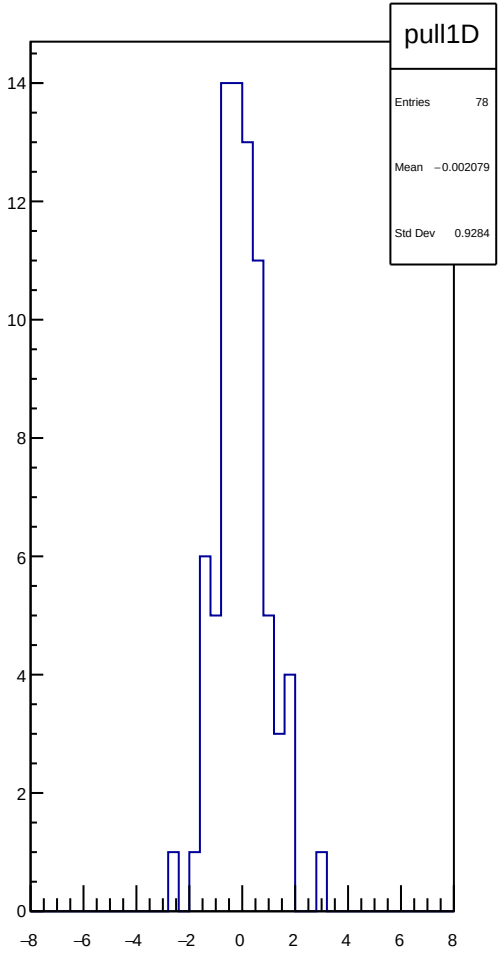

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

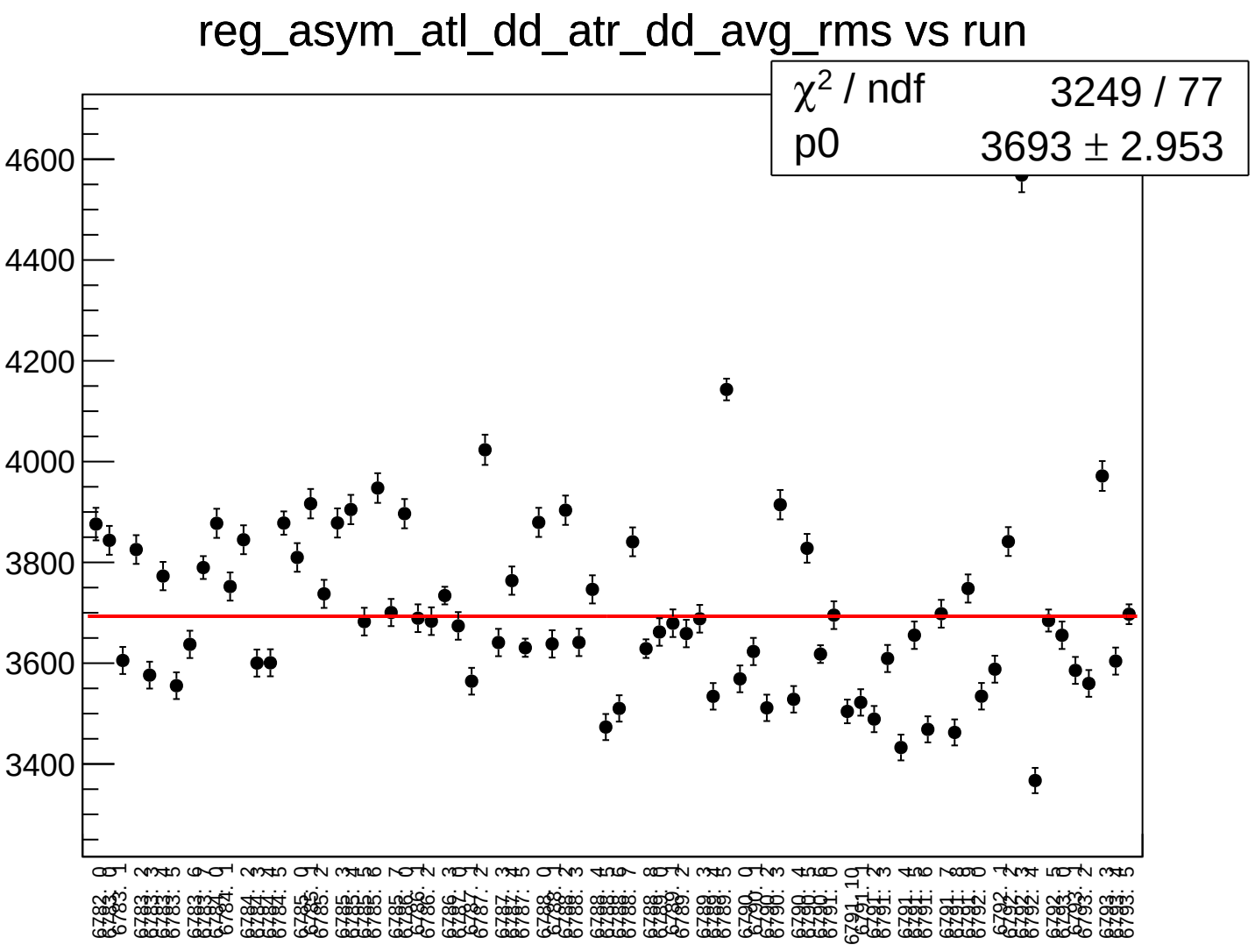

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 90.92 / 77
p0 78.11 ± 1500
pull
Entries 78
Mean 184.5
Std Dev 139.7

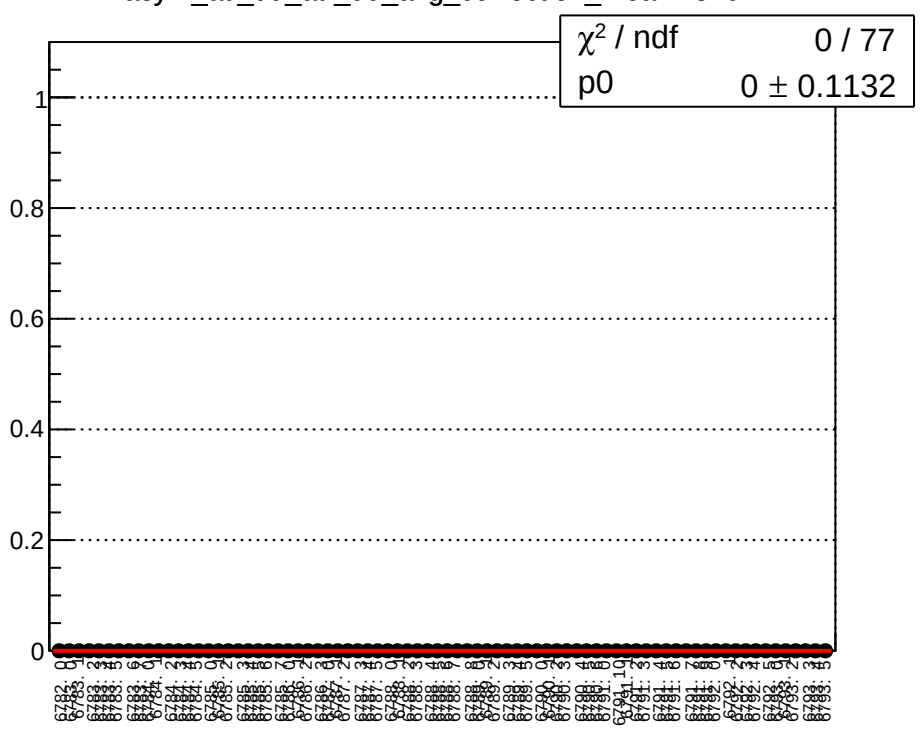

pull1D
Entries 78
Mean 0.0207
Std Dev 1.079

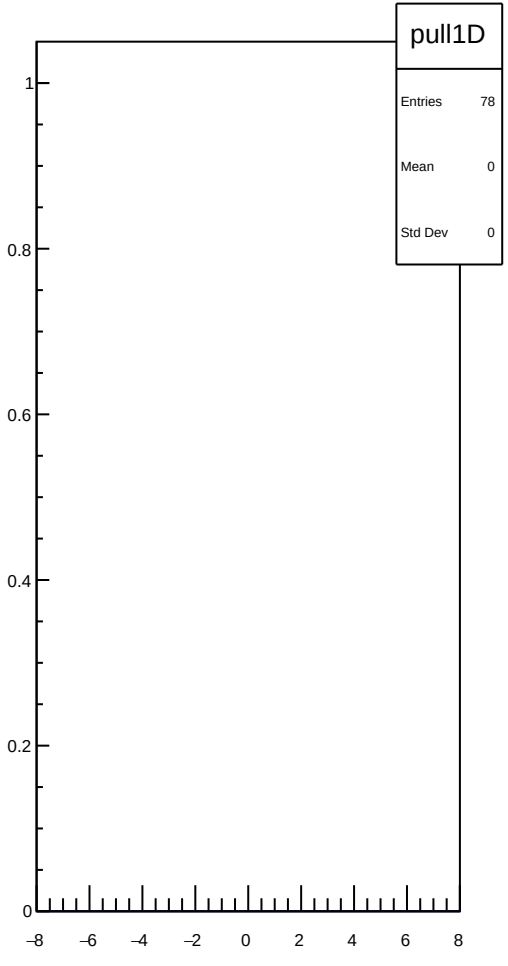

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.207e+04 / 77
p0 1323 ± 1.061
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

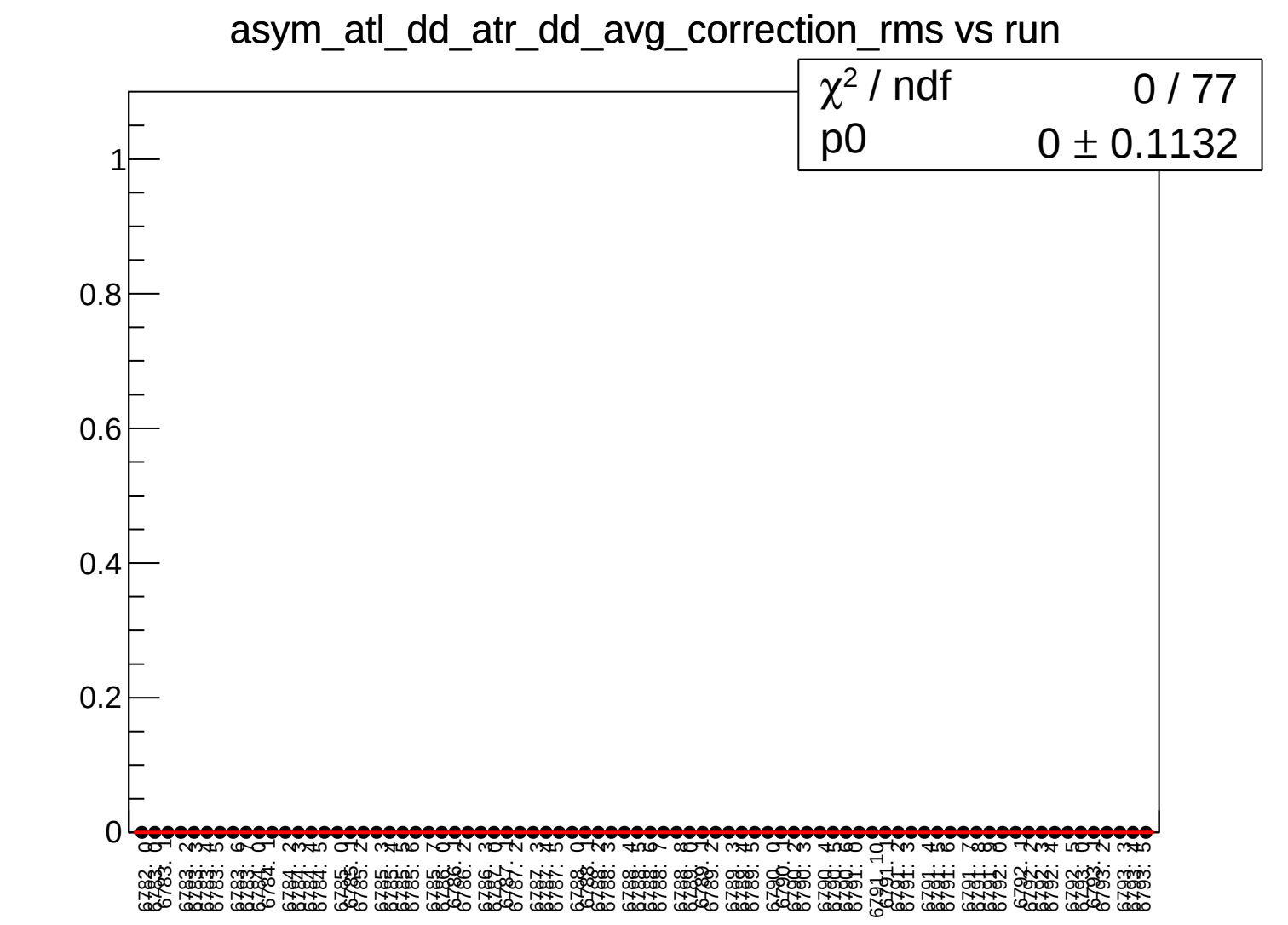

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 67.23 / 77
p0 −877.9 ± 4176
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −490.8
Std Dev 551.4
3
2
1
0
−1
−2

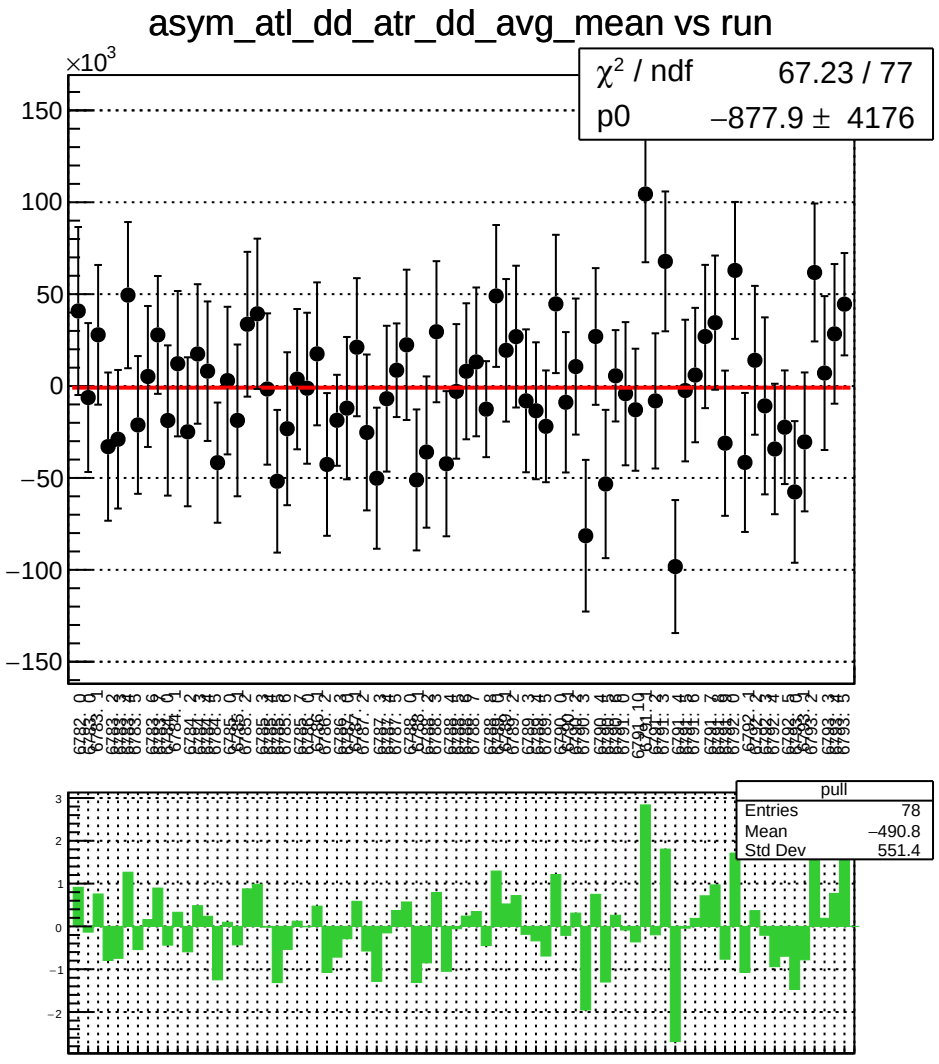

pull1D
Entries 78
Mean −0.002079
Std Dev 0.9284
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

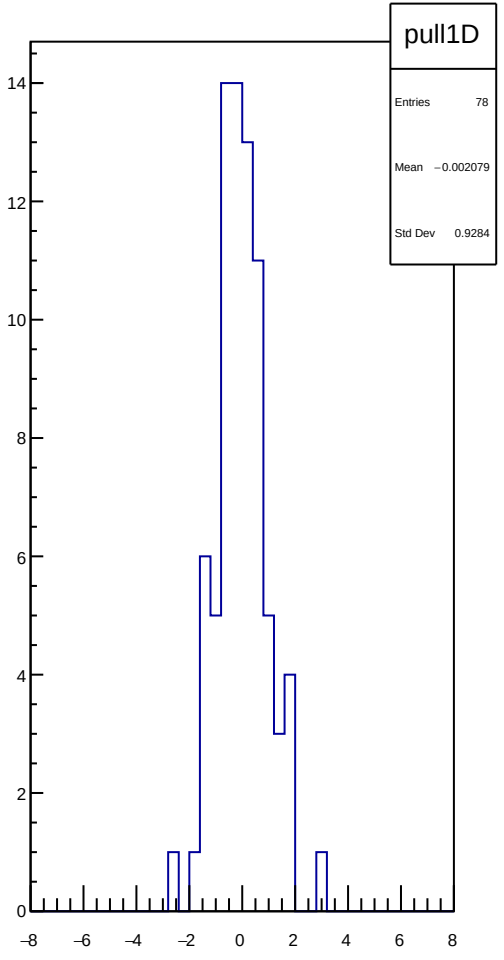

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 3249 / 77
p0 3693 ± 2.953
4600
4400
4200
4000
3800
3600
3400

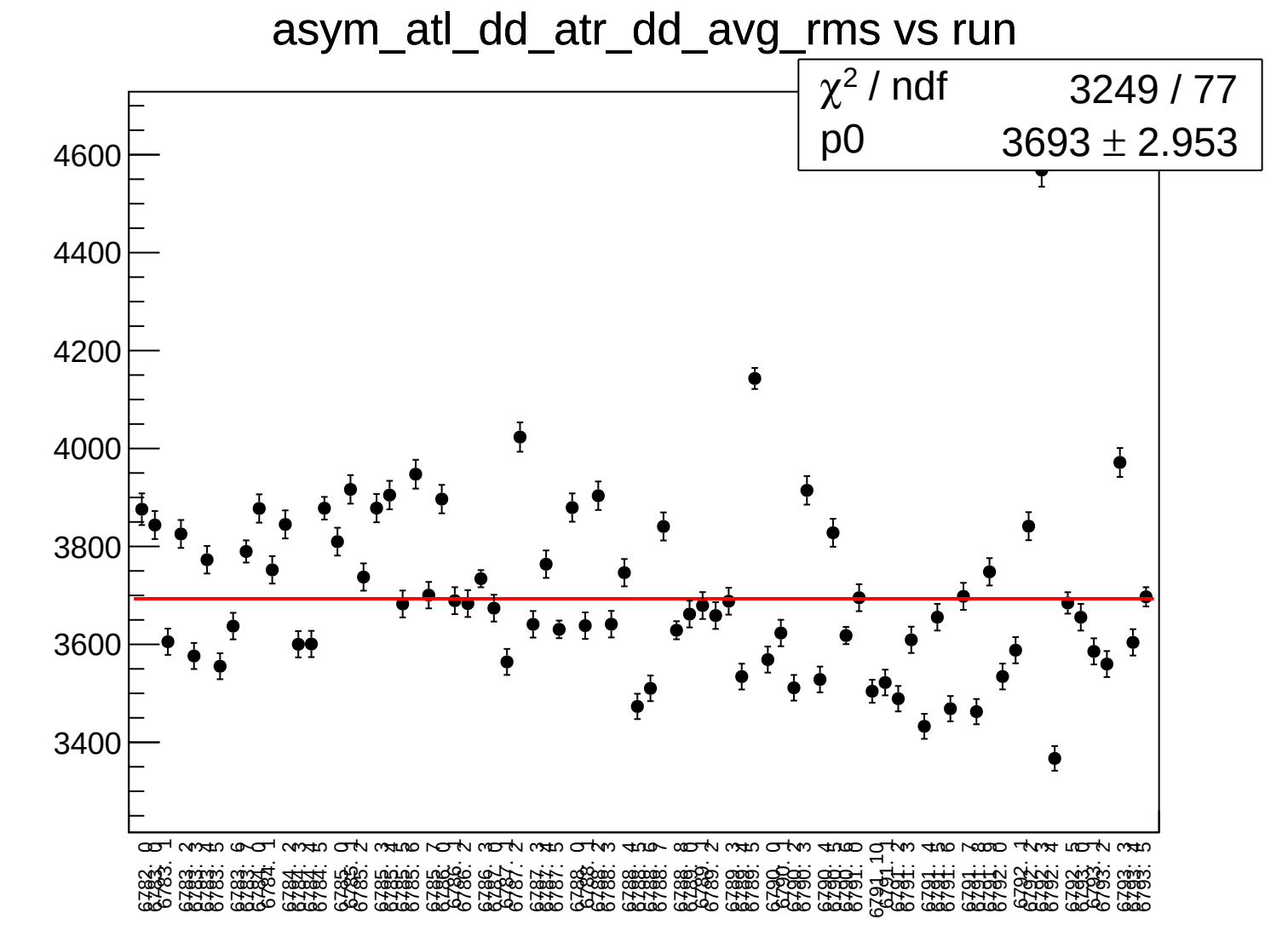

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

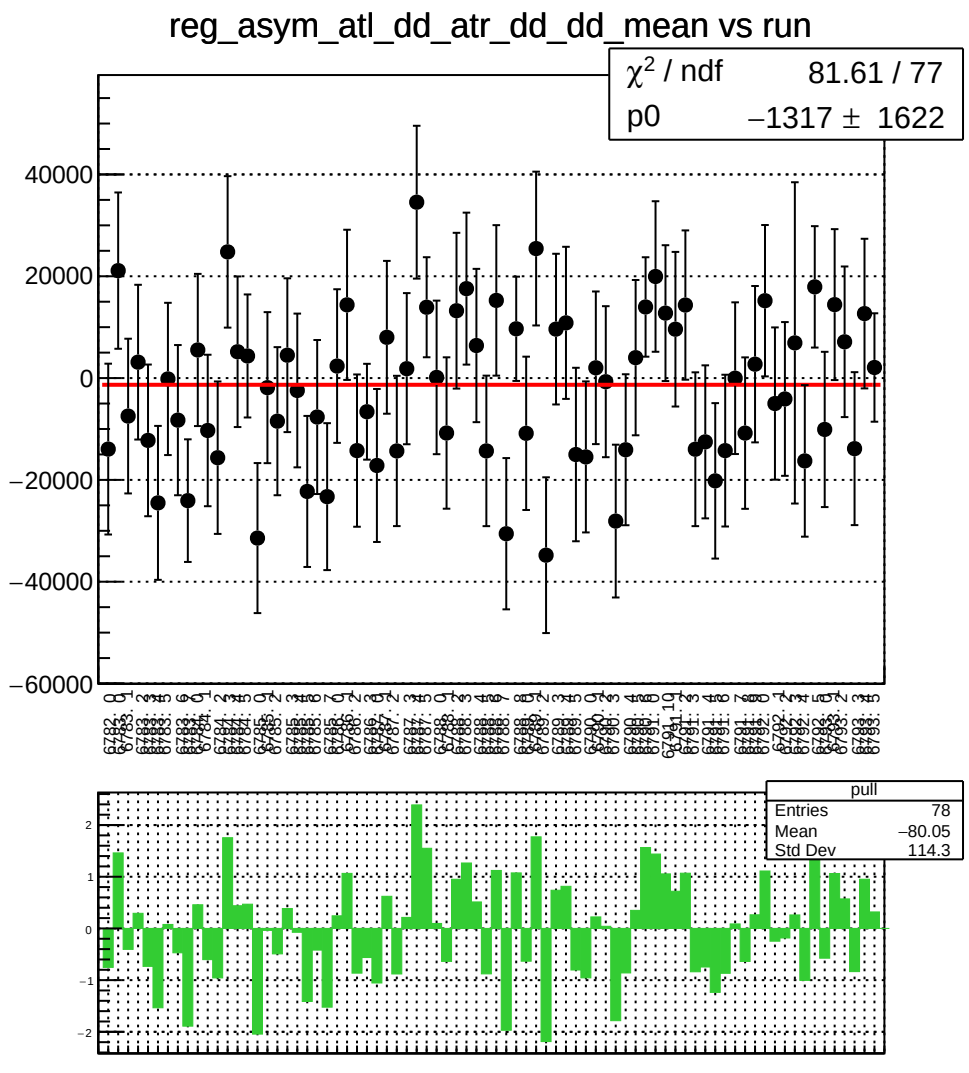

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

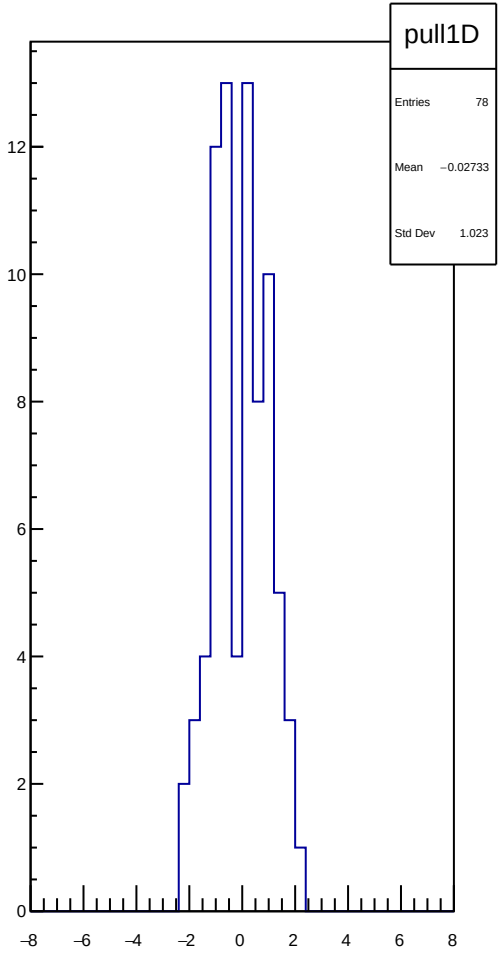

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

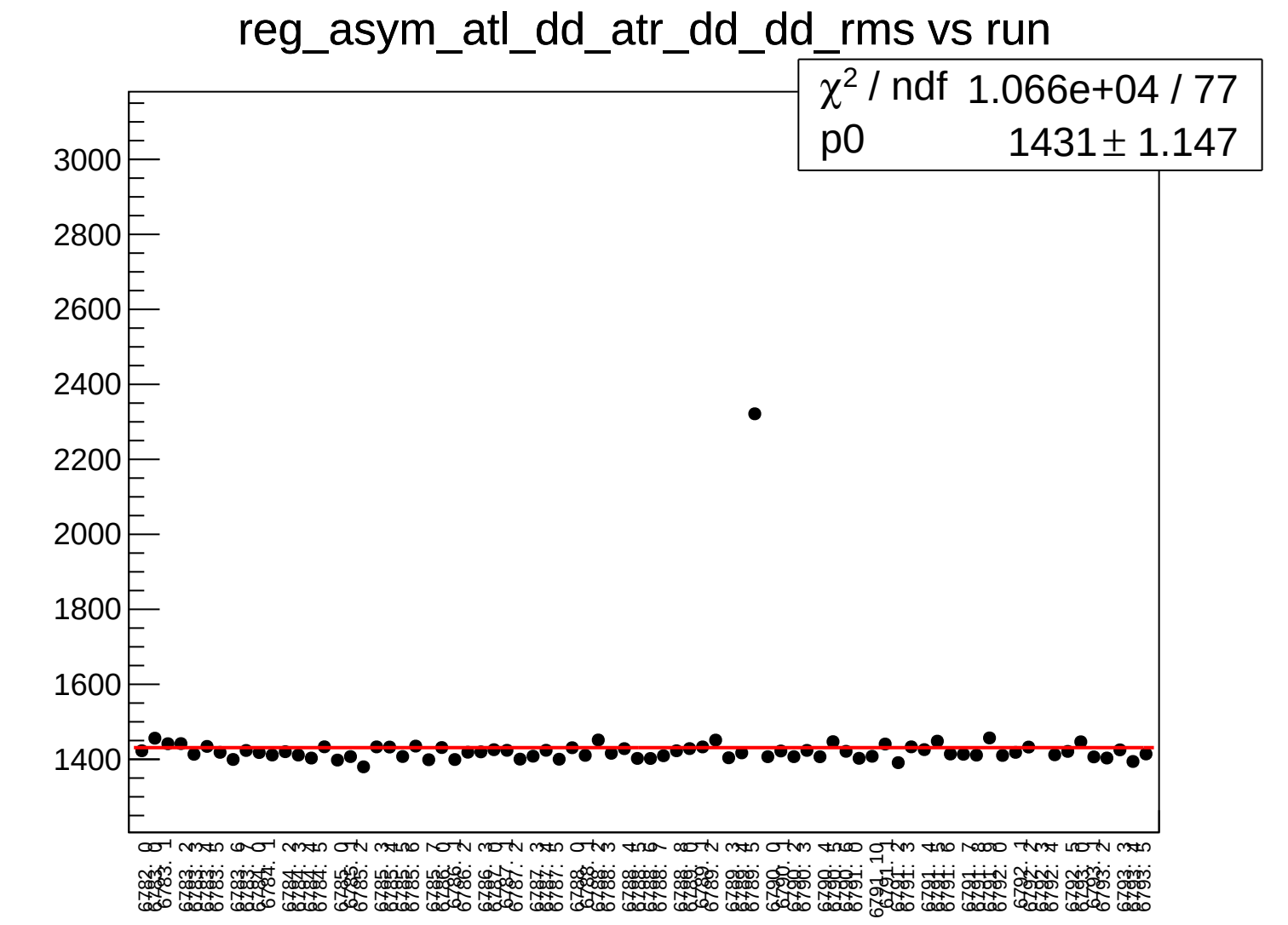

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 67.23 / 77
p0 −877.9 ± 4176
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −490.8
Std Dev 551.4
3
2
1
0
−1
−2

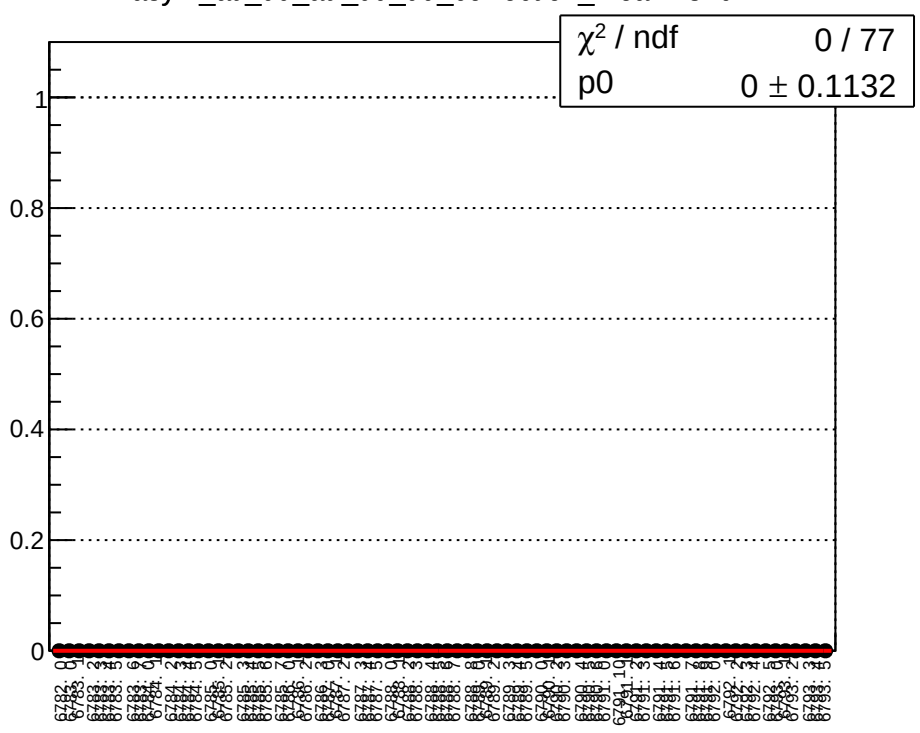

pull1D
Entries 78
Mean −0.002079
Std Dev 0.9284
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

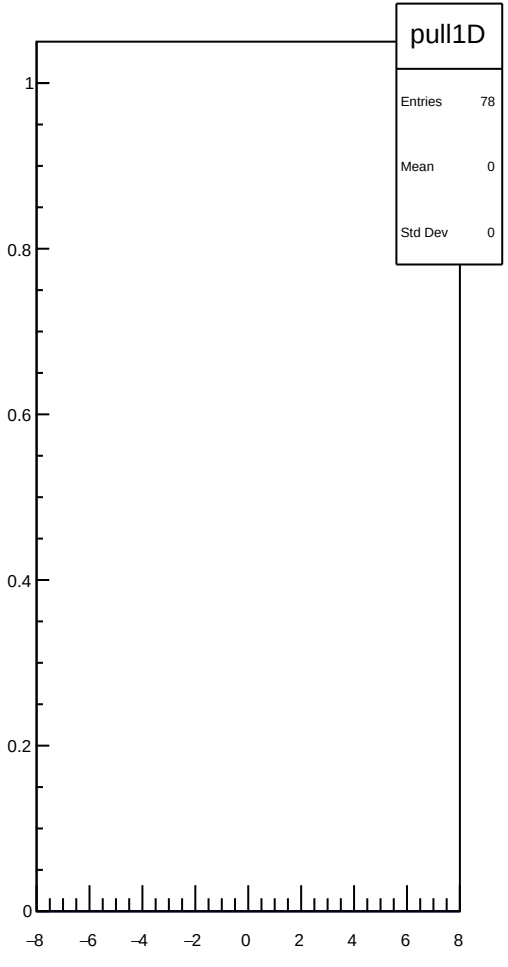

asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 3249 / 77
p0 3693 ± 2.953
4600
4400
4200
4000
3800
3600
3400

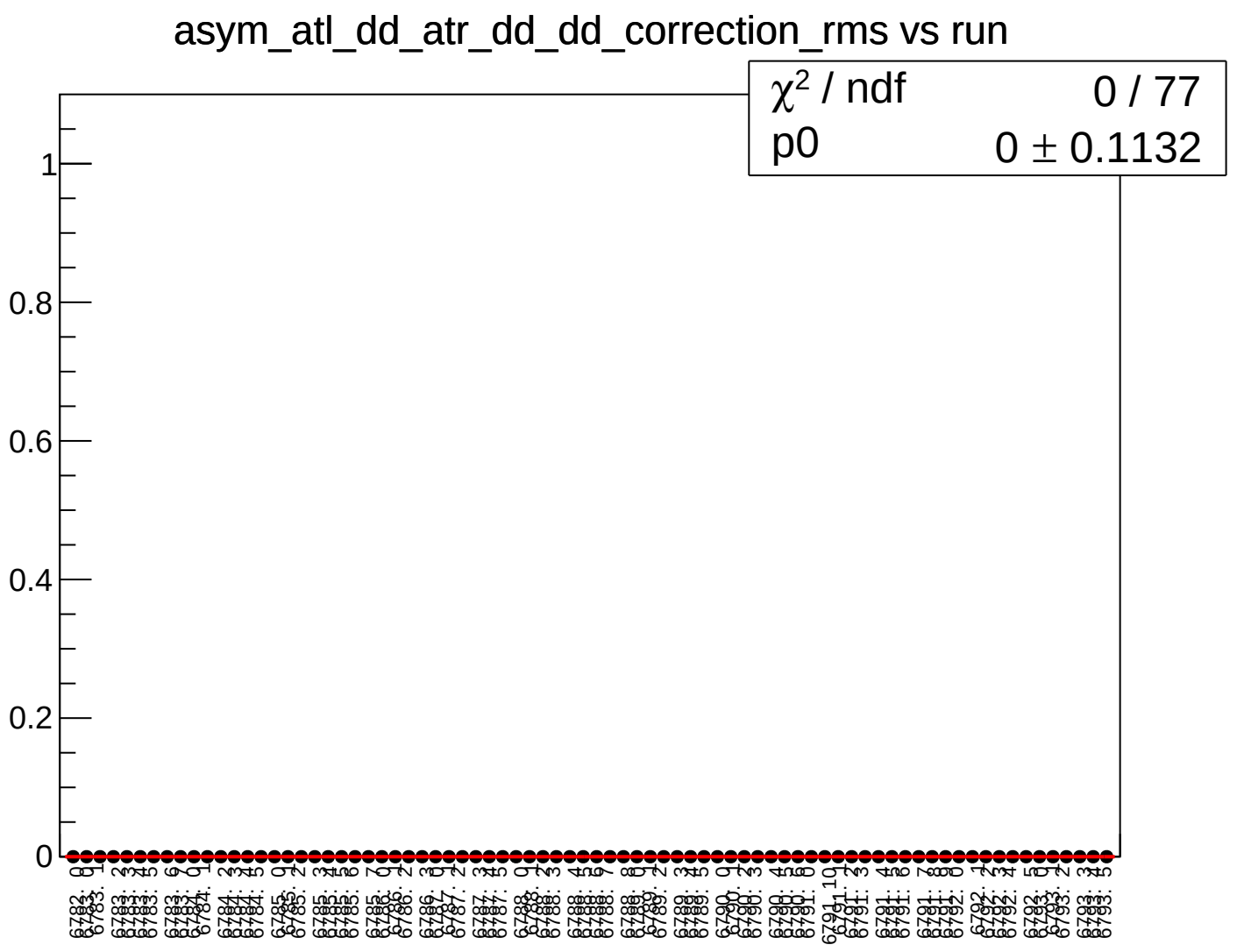

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 81.61 / 77
p0 −1317 ± 1622
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean −80.05
Std Dev 114.3
2
1
0
−1

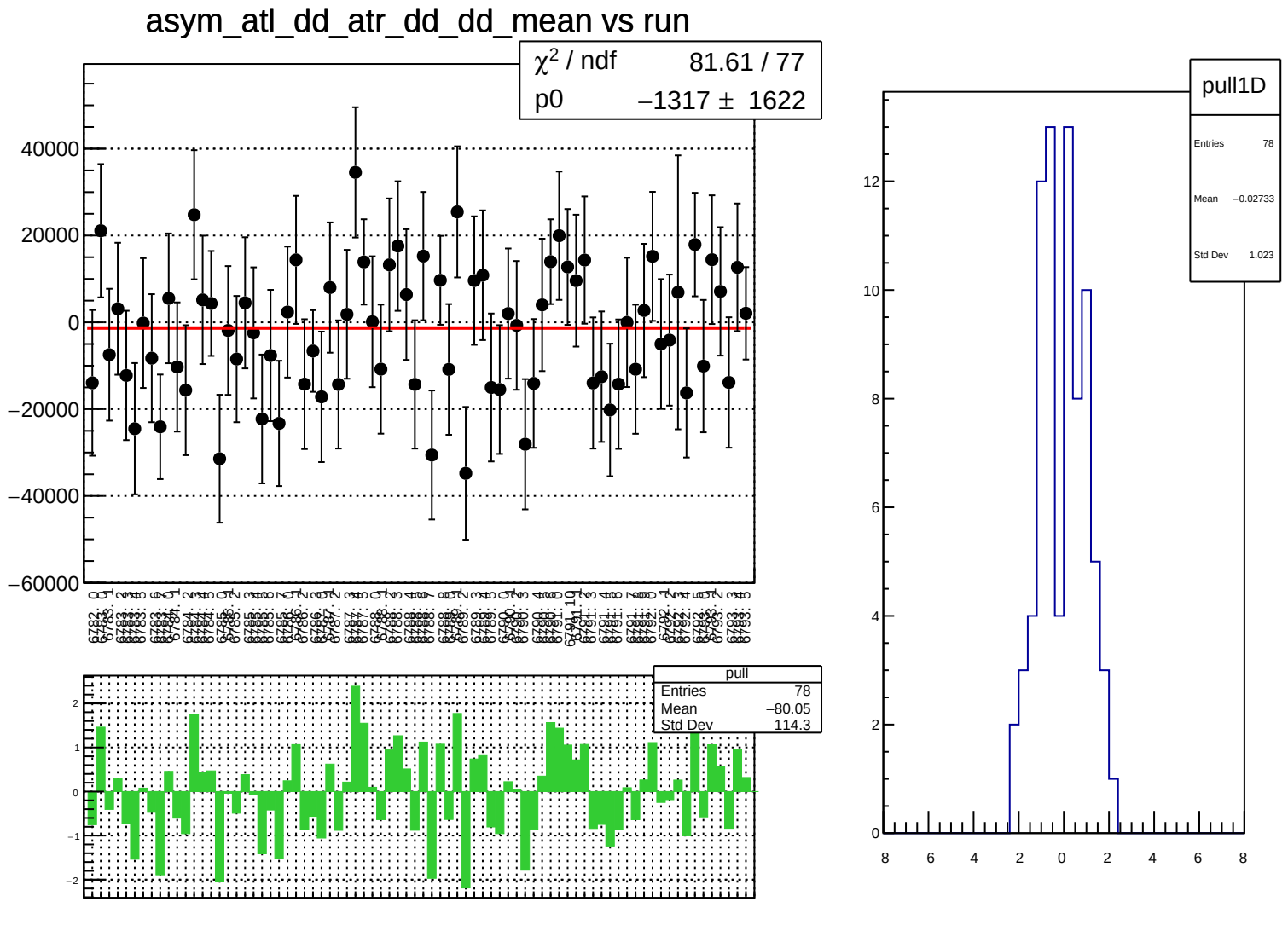

pull1D
Entries 78
Mean −0.02733
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

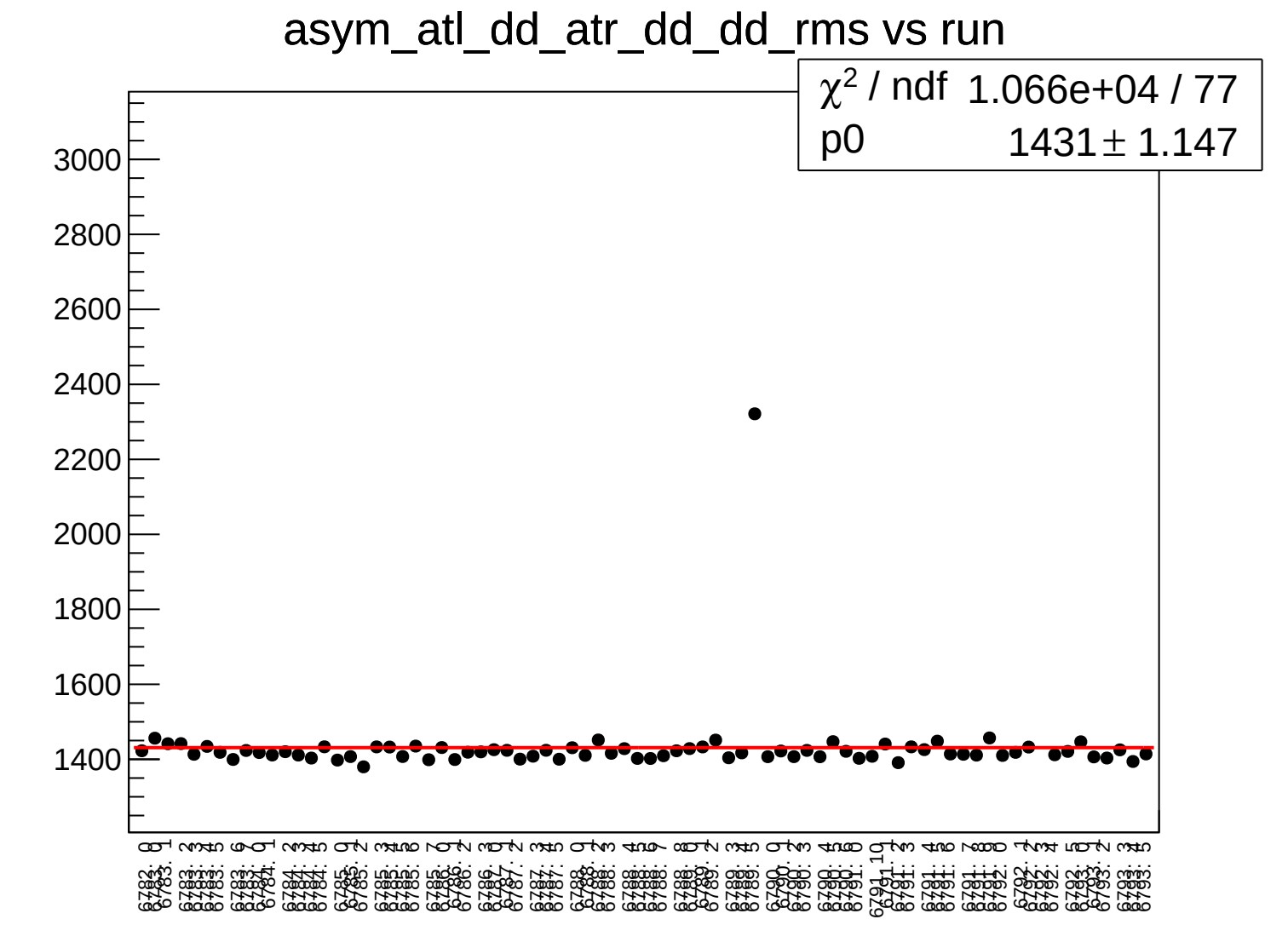

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.066e+04 / 77
p0 1431 ± 1.147
3000
2800
2600
2400
2200
2000
1800
1600
1400

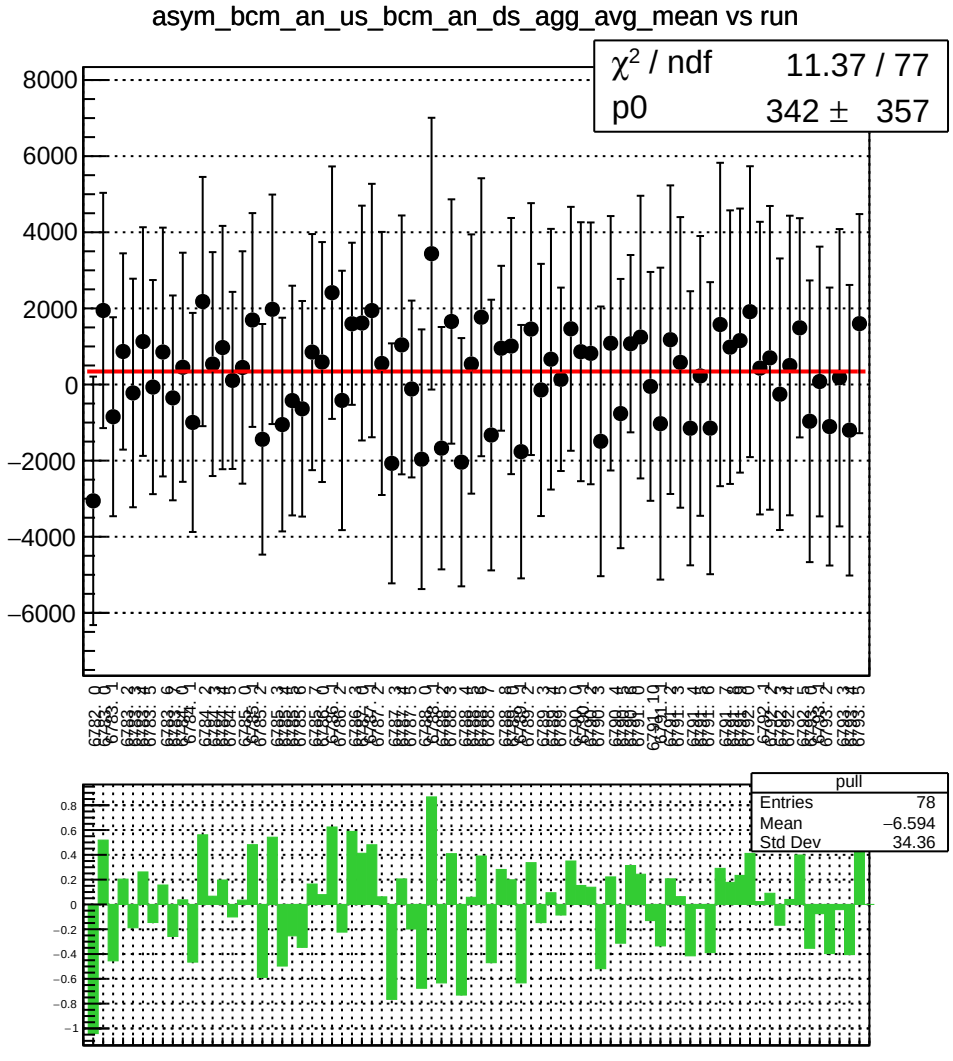

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

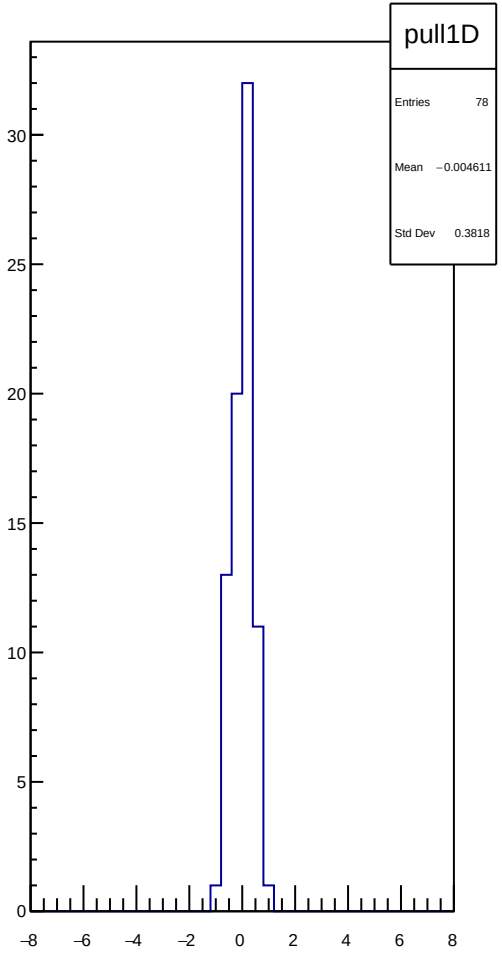

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

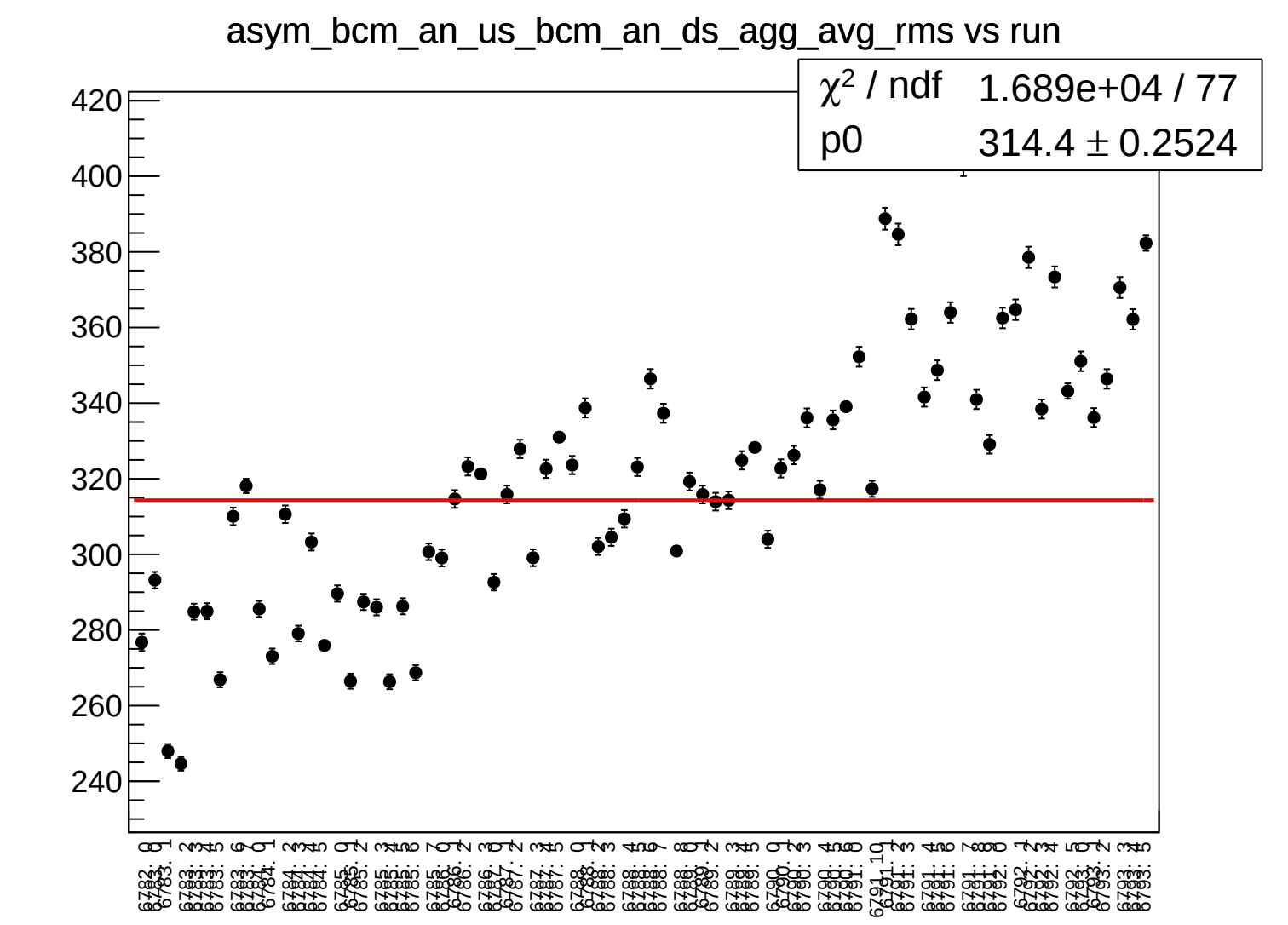

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

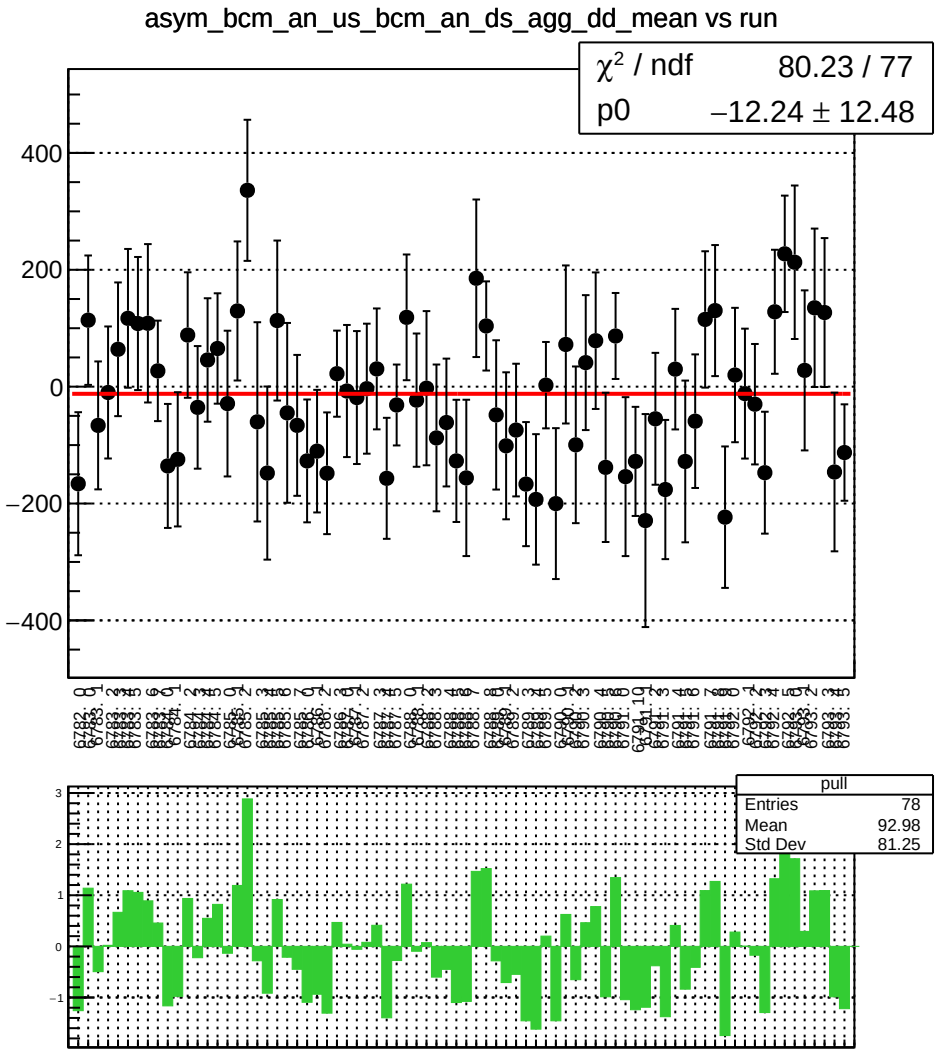

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 81.61 / 77
p0 −1317 ± 1622
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean −80.05
Std Dev 114.3
2
1
0
−1
−2
pull1D
Entries 78
Mean −0.02733
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

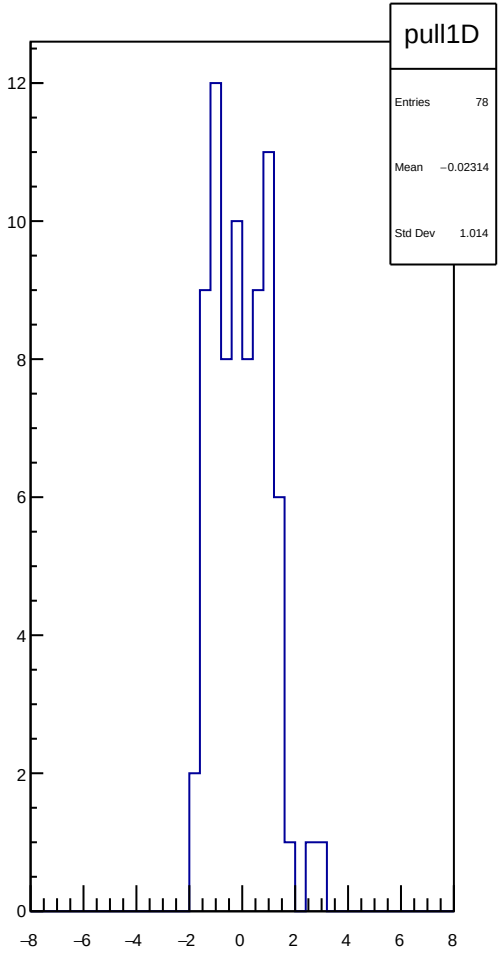

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.066e+04 / 77
p0 1431 ± 1.147
3000
2800
2600
2400
2200
2000
1800
1600
1400

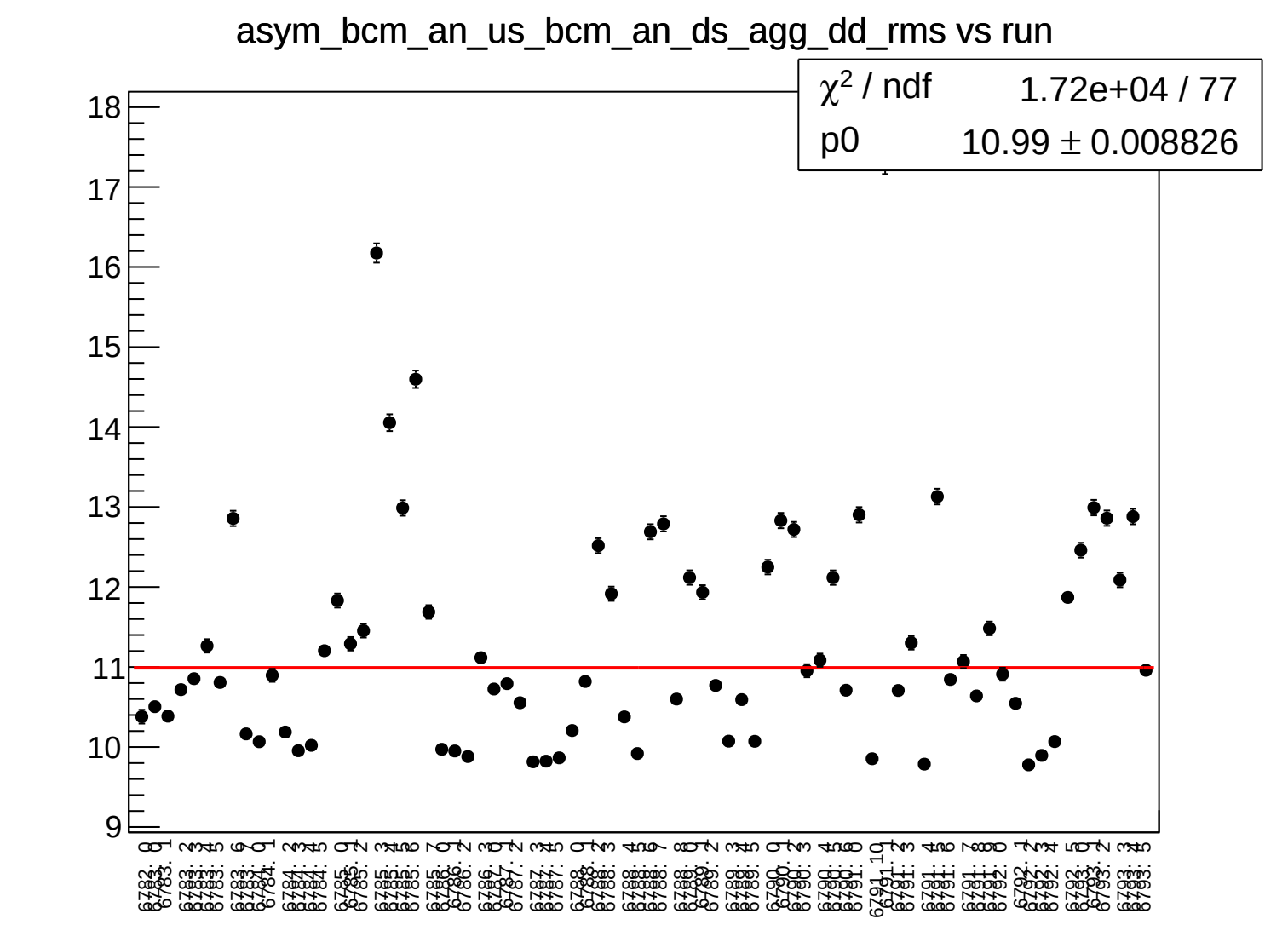

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.37 / 77
p0 342 ± 357
pull
Entries 78
Mean −6.594
Std Dev 34.36

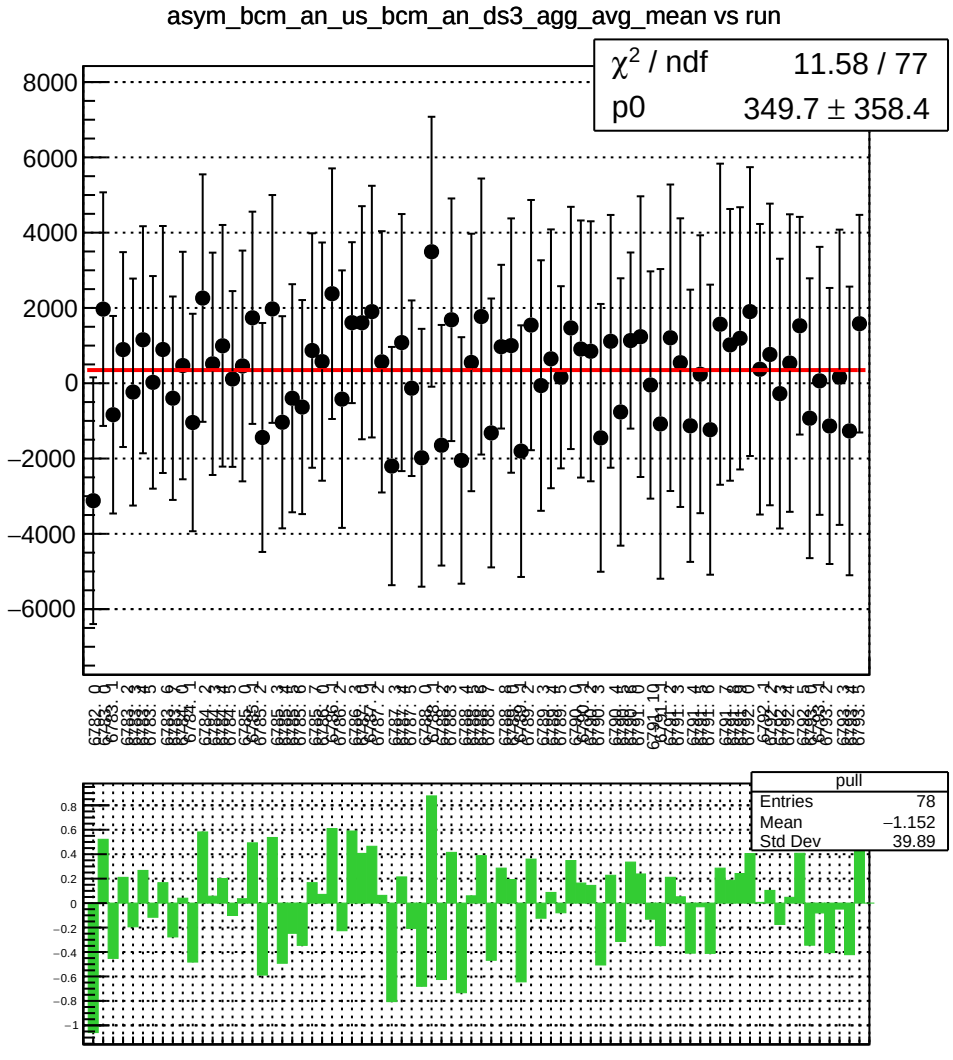

pull1D
Entries 78
Mean −0.004611
Std Dev 0.3818

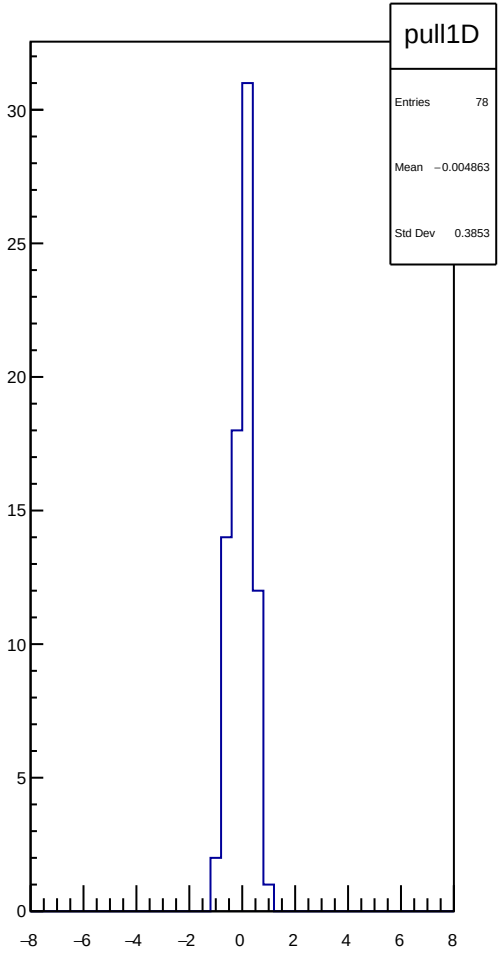

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.689e+04 / 77
p0 314.4 ± 0.2524
420
400
380
360
340
320
300
280
260
240

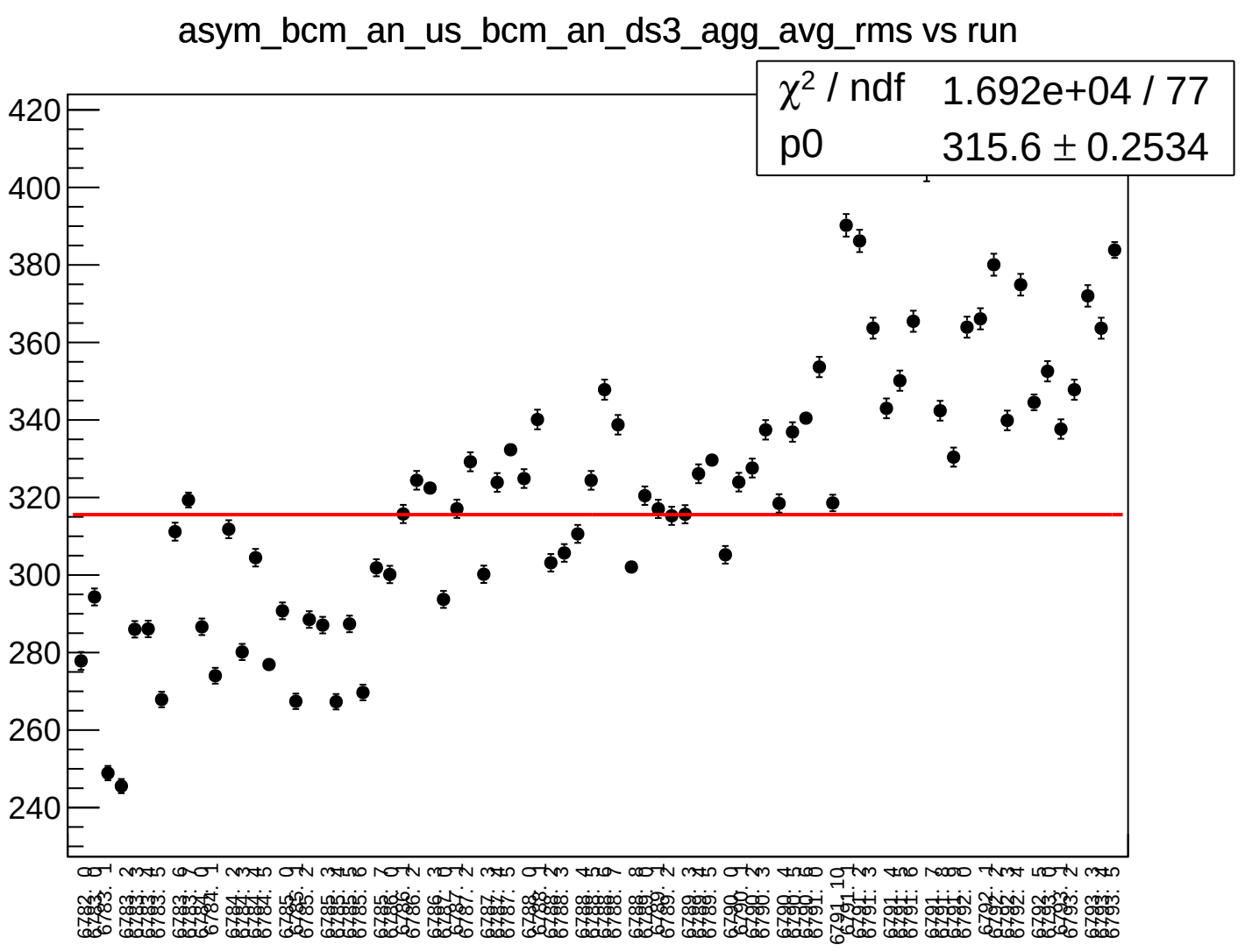

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 80.23 / 77
p0 −12.24 ± 12.48
pull
Entries 78
Mean 92.98
Std Dev 81.25

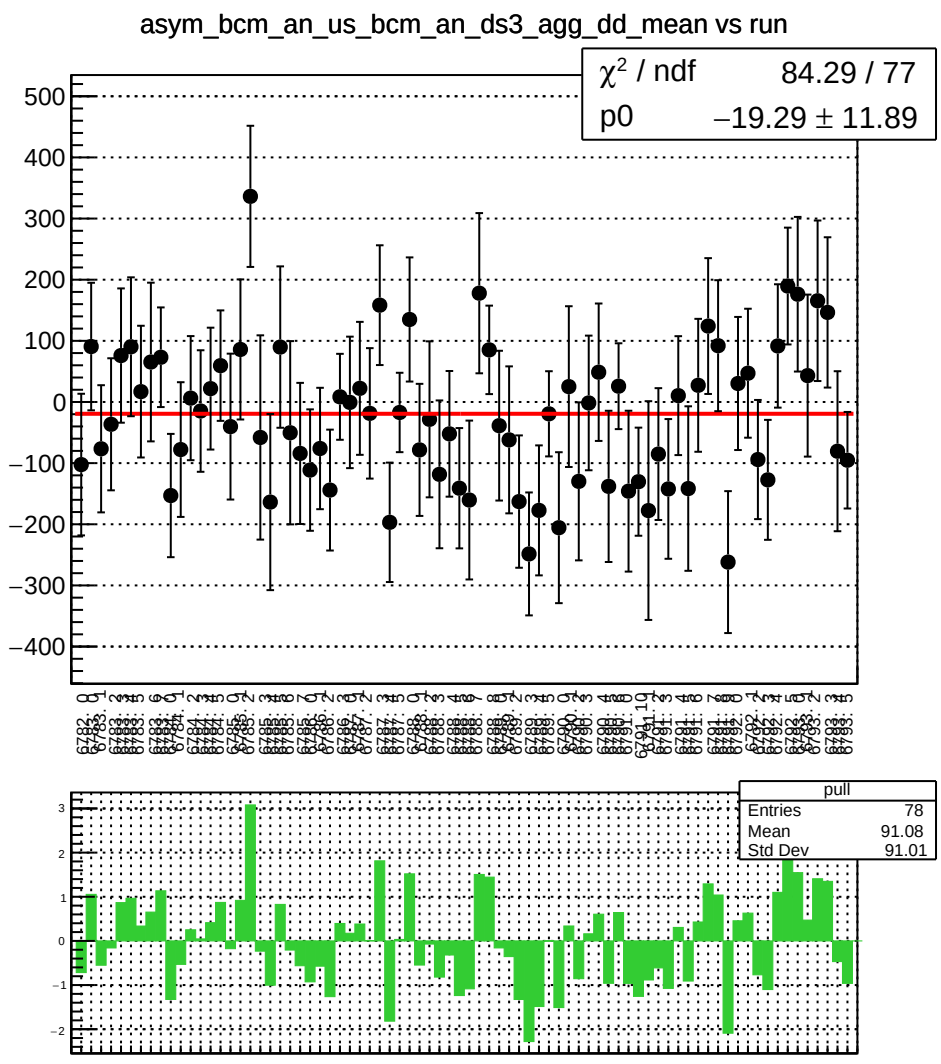

pull1D
Entries 78
Mean −0.02314
Std Dev 1.014

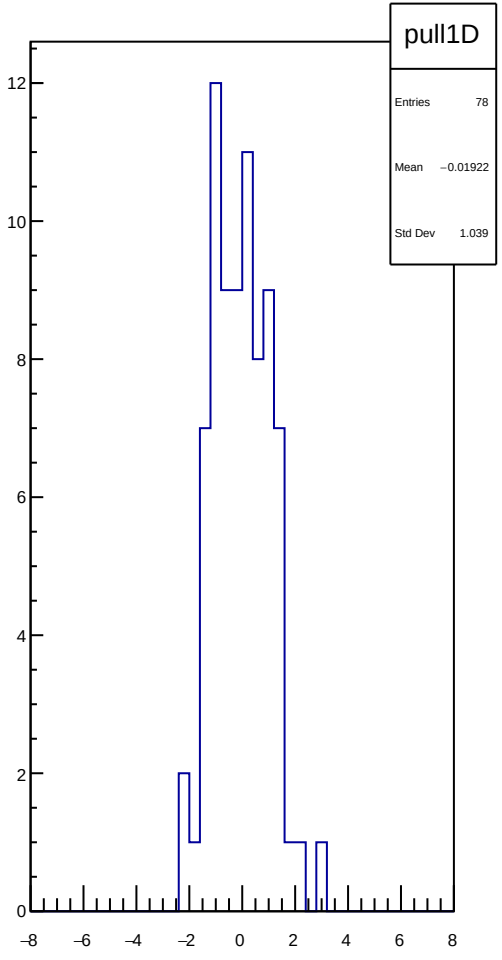

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.72e+04 / 77
p0 10.99 ± 0.008826
18
17
16
15
14
13
12
11
10
9

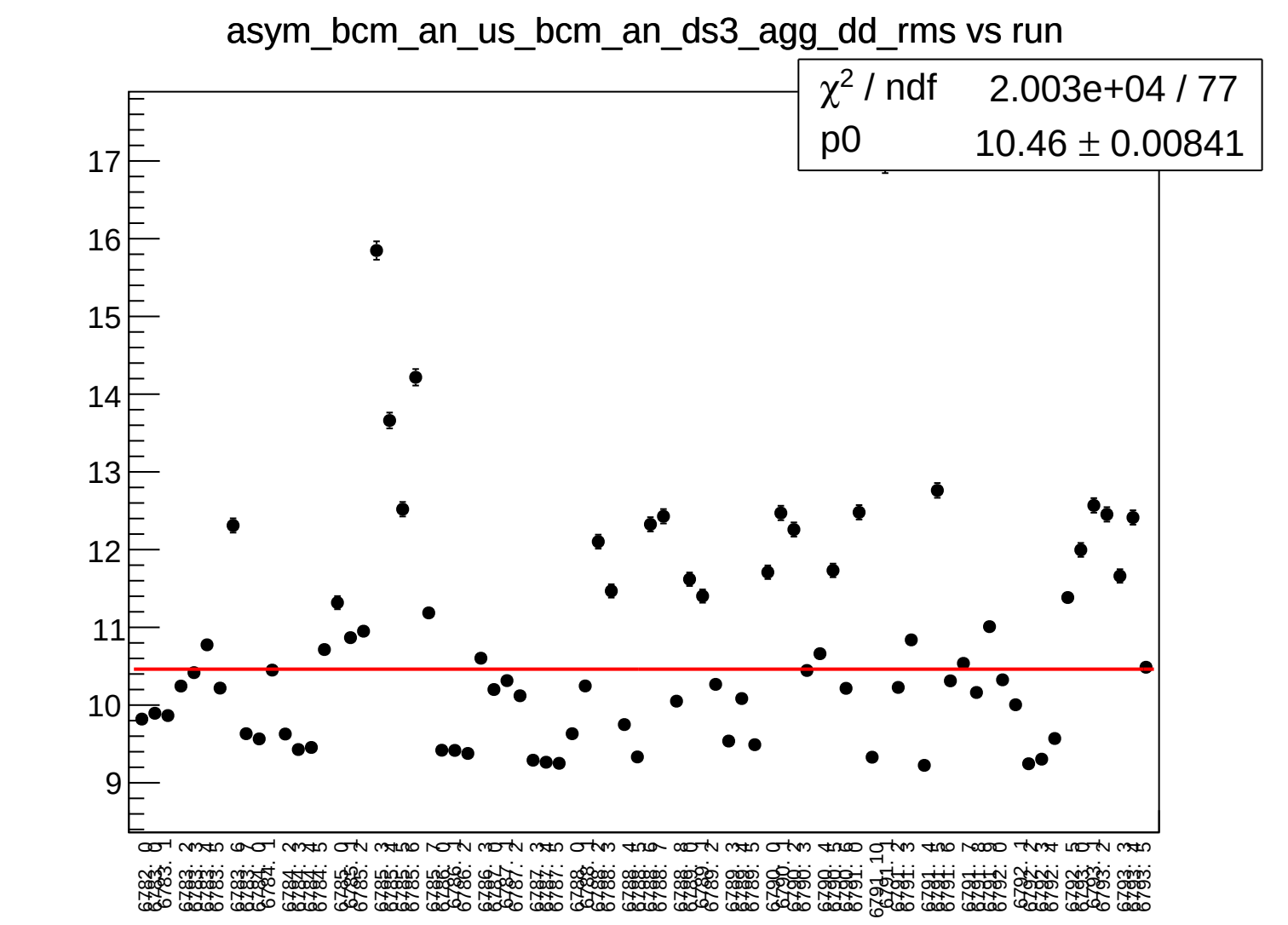

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 11.58 / 77
p0 349.7 ± 358.4
pull
Entries 78
Mean −1.152
Std Dev 39.89

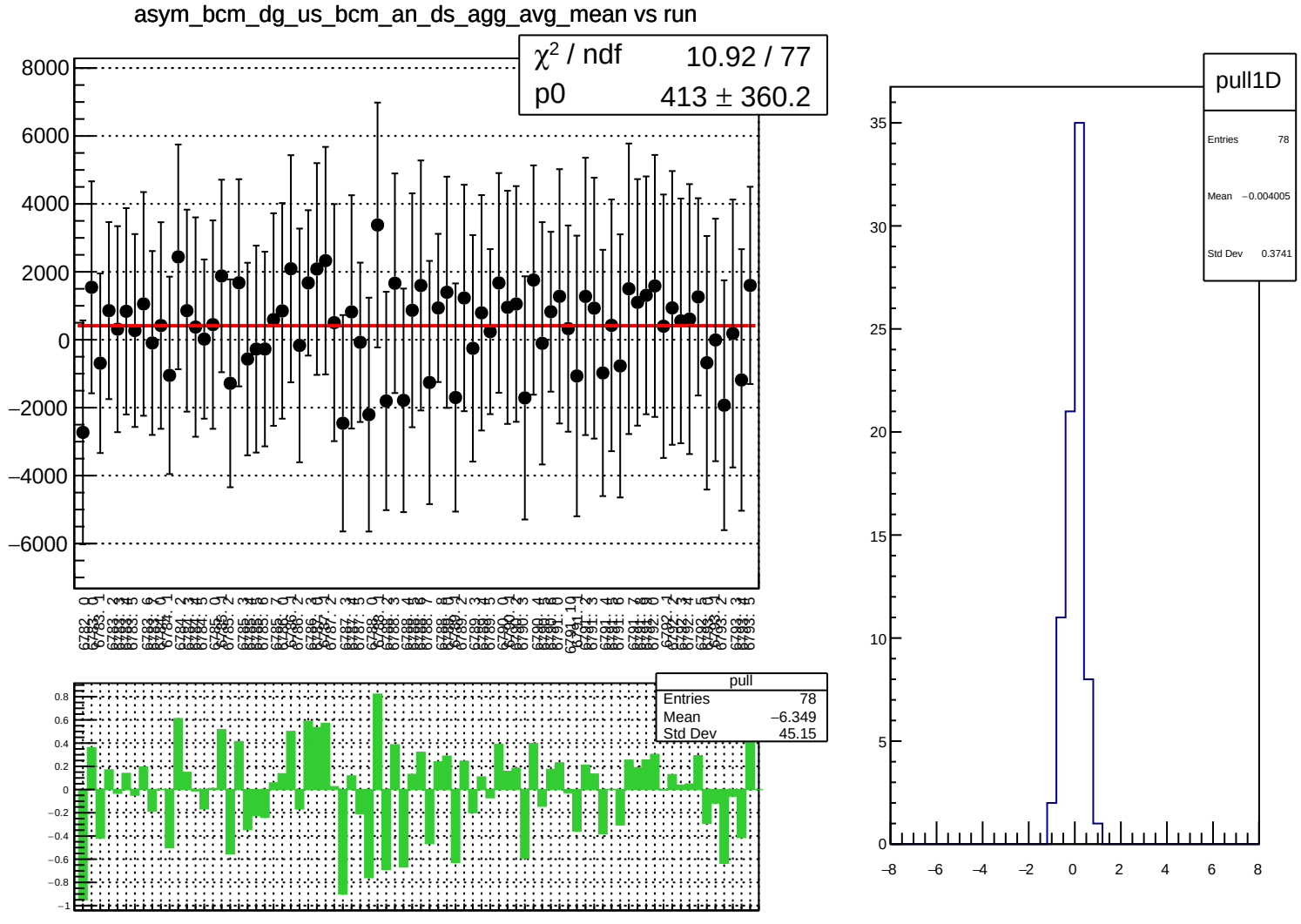

pull1D
Entries 78
Mean −0.004863
Std Dev 0.3853

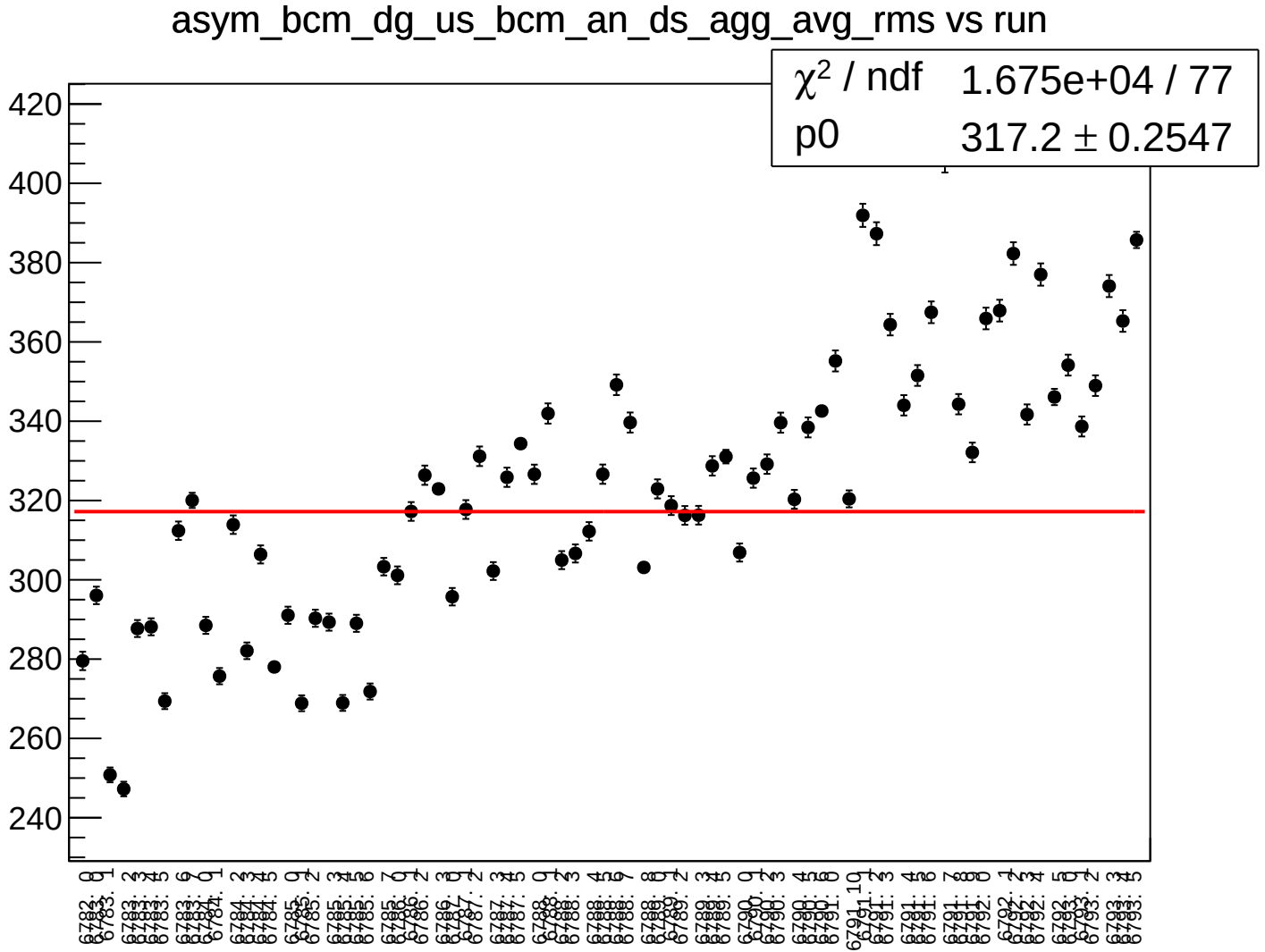

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.692e+04 / 77
p0 315.6 ± 0.2534
420
400
380
360
340
320
300
280
260
240

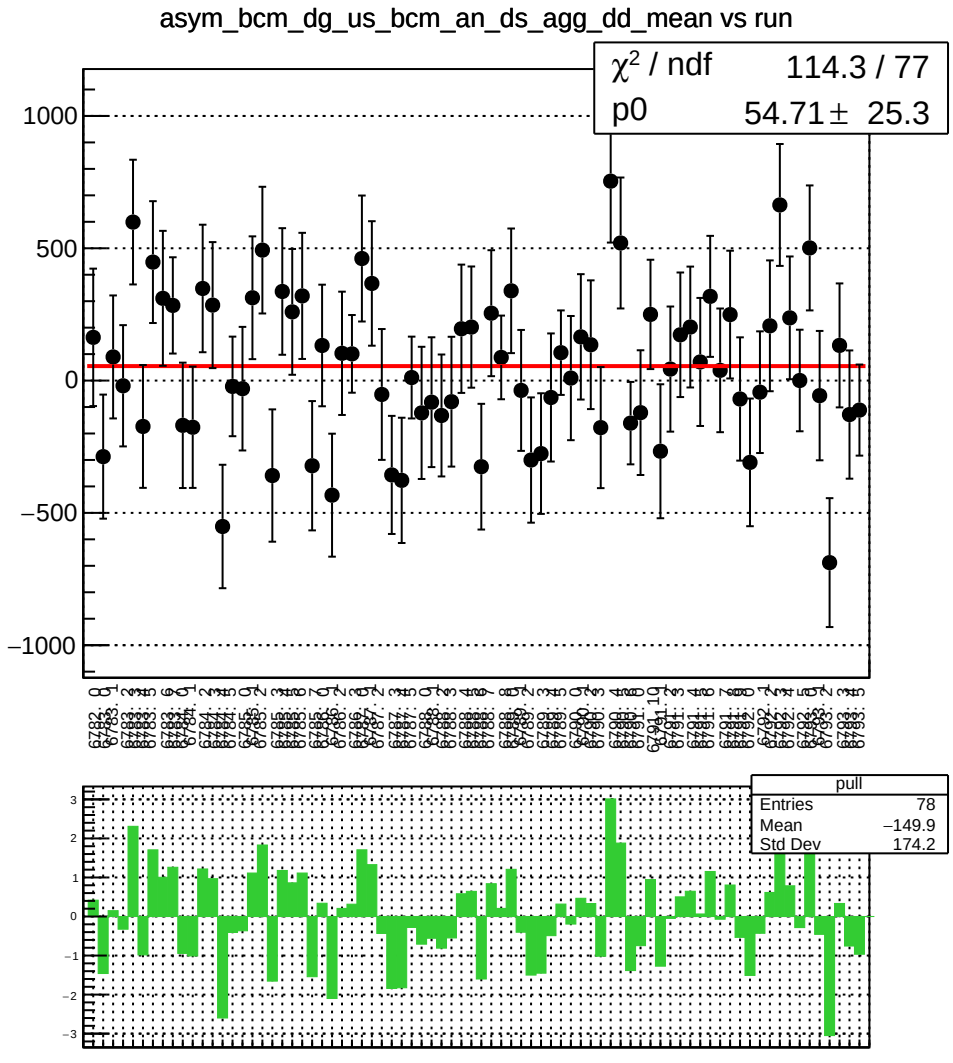

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 84.29 / 77
p0 −19.29 ± 11.89
pull
Entries 78
Mean 91.08
Std Dev 91.01

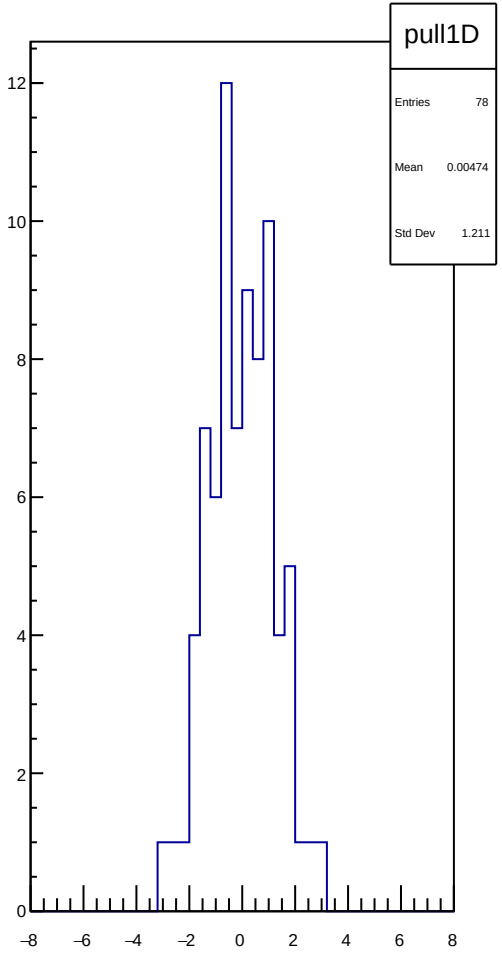

pull1D
Entries 78
Mean −0.01922
Std Dev 1.039

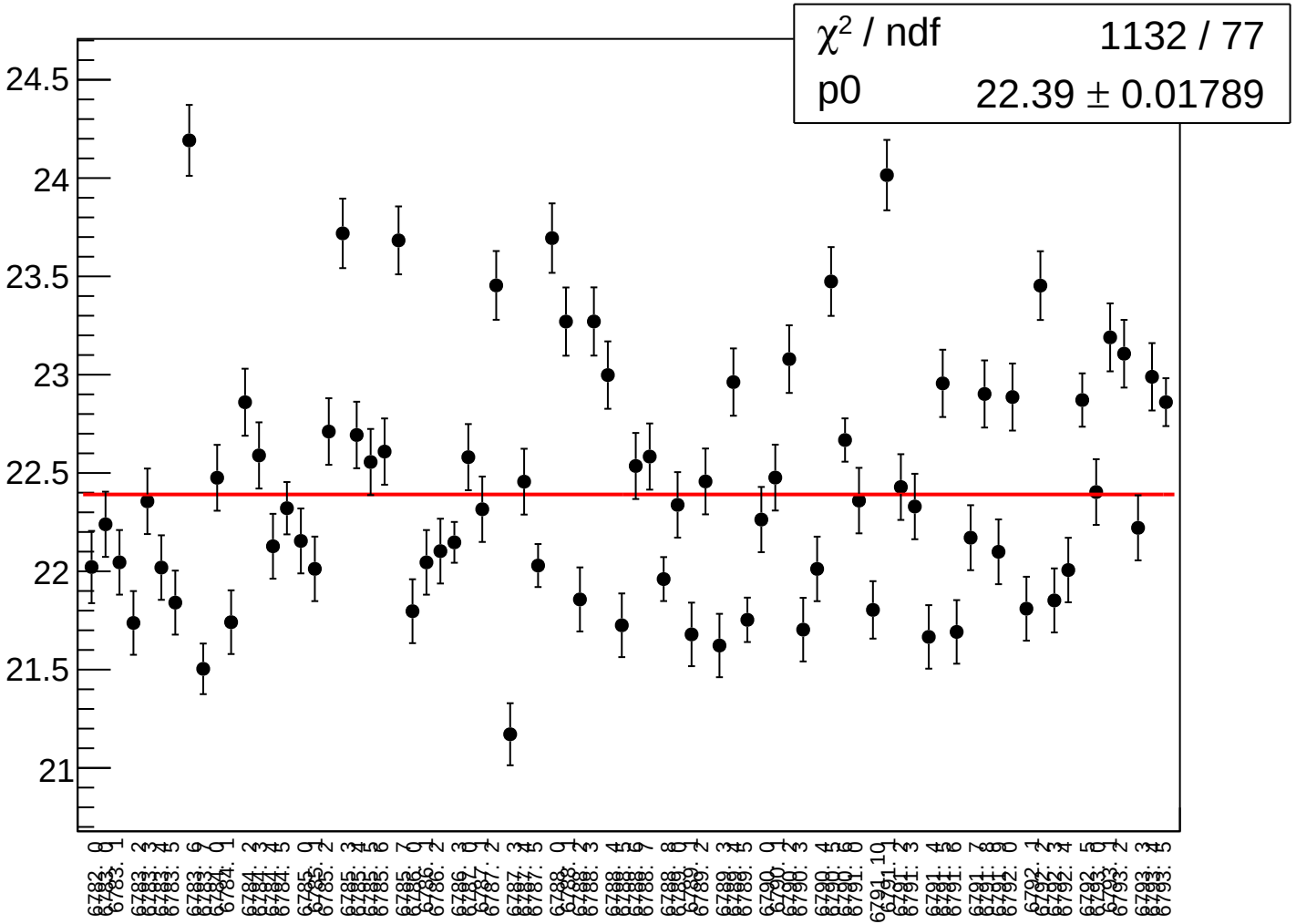

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.003e+04 / 77
p0 10.46 ± 0.00841
17
16
15
14
13
12
11
10
9

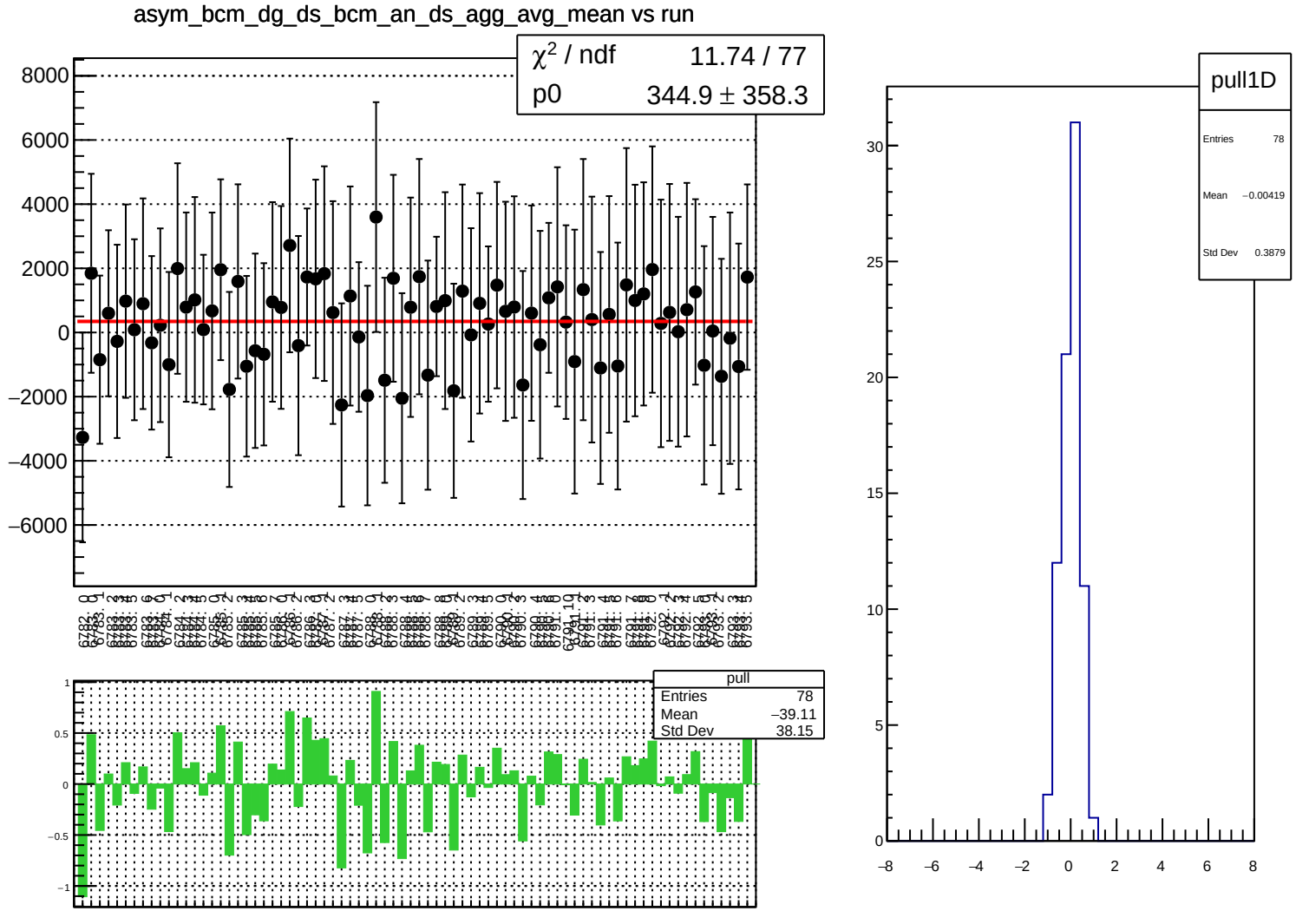

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 10.92 / 77
p0 413 ± 360.2
pull
Entries 78
Mean −6.349
Std Dev 45.15
pull1D
Entries 78
Mean −0.004005
Std Dev 0.3741

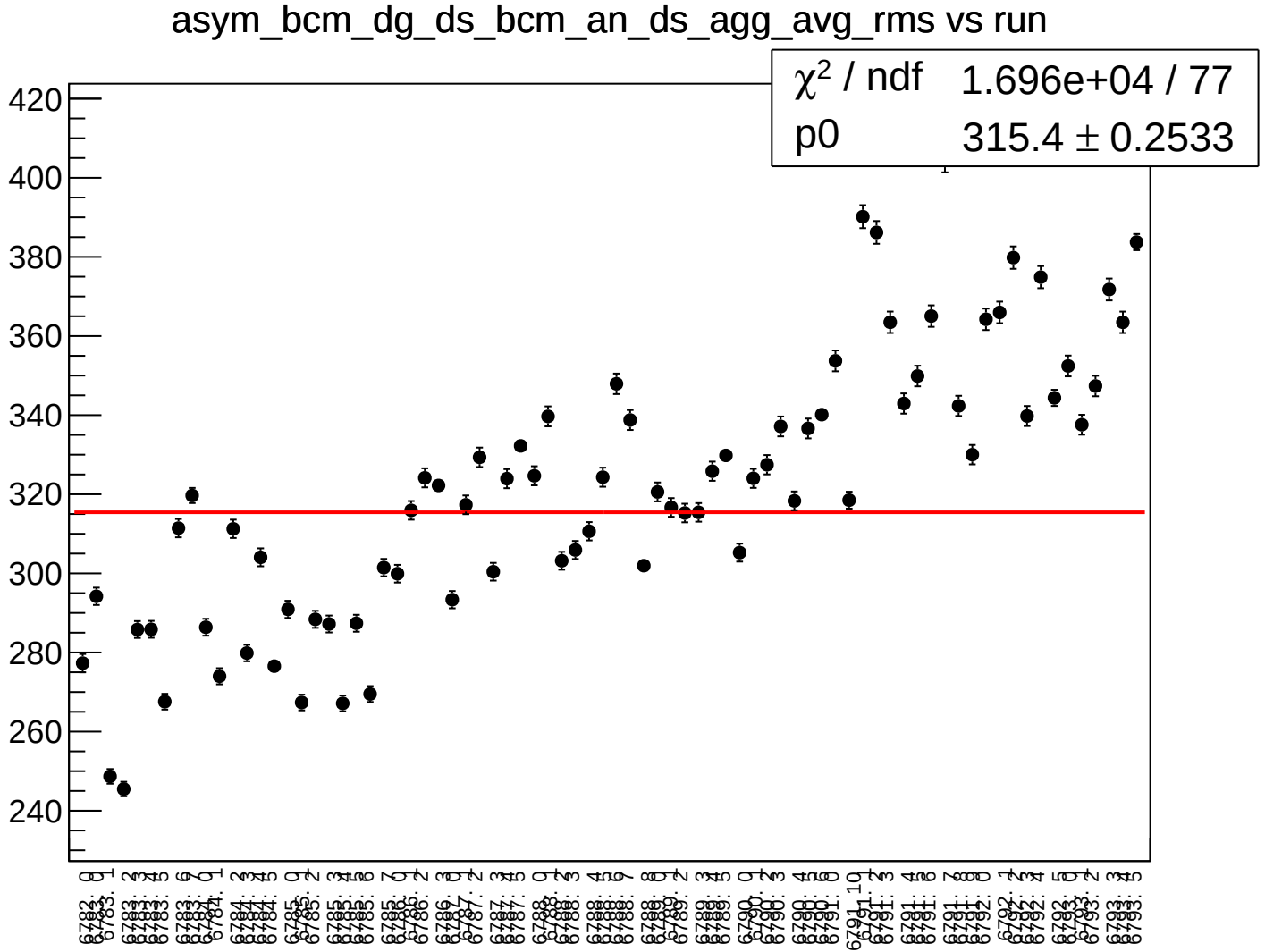

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.675e+04 / 77
p0 317.2 ± 0.2547
420
400
380
360
340
320
300
280
260
240

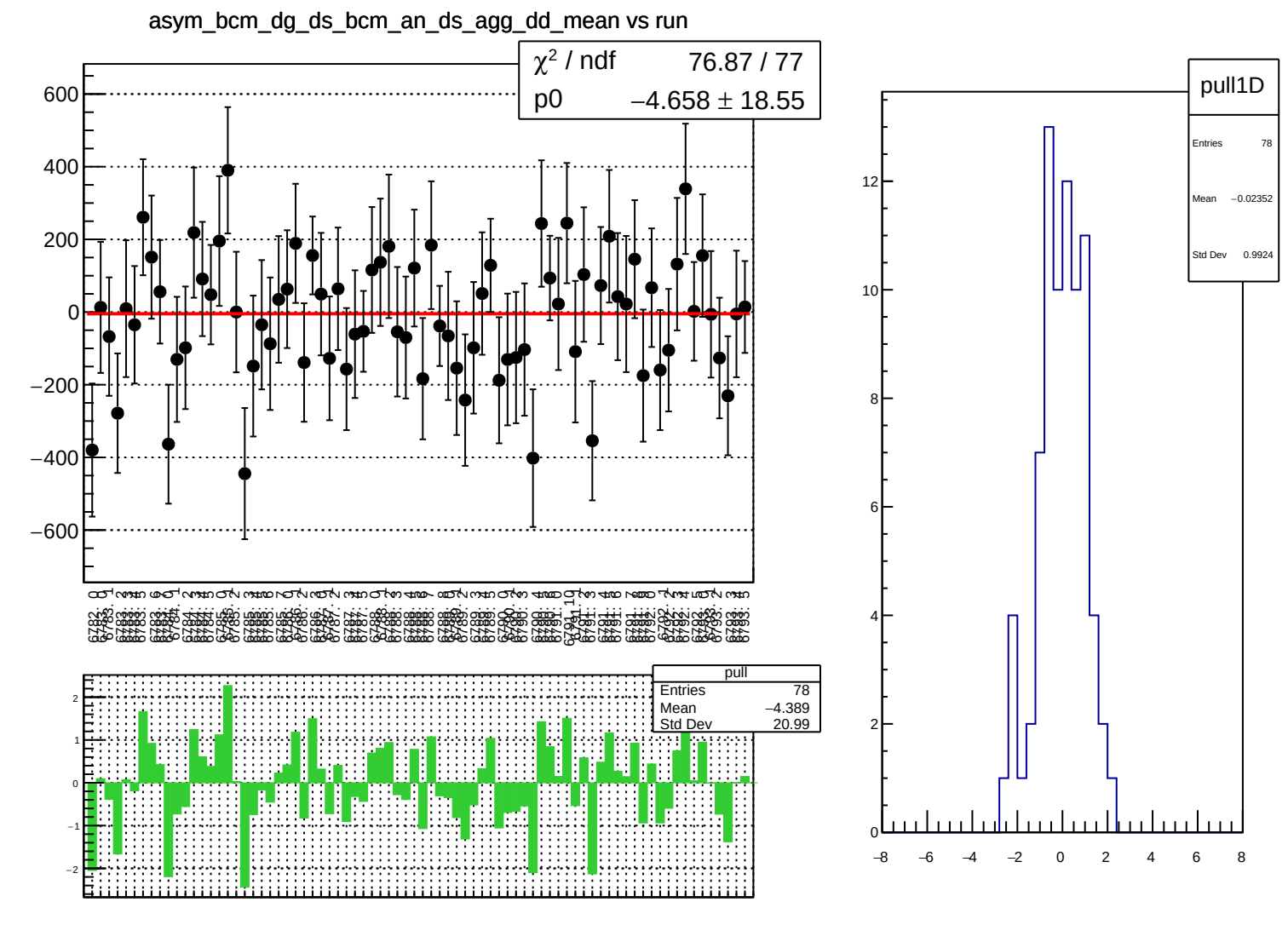

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 114.3 / 77
p0 54.71 ± 25.3
pull
Entries 78
Mean −149.9
Std Dev 174.2

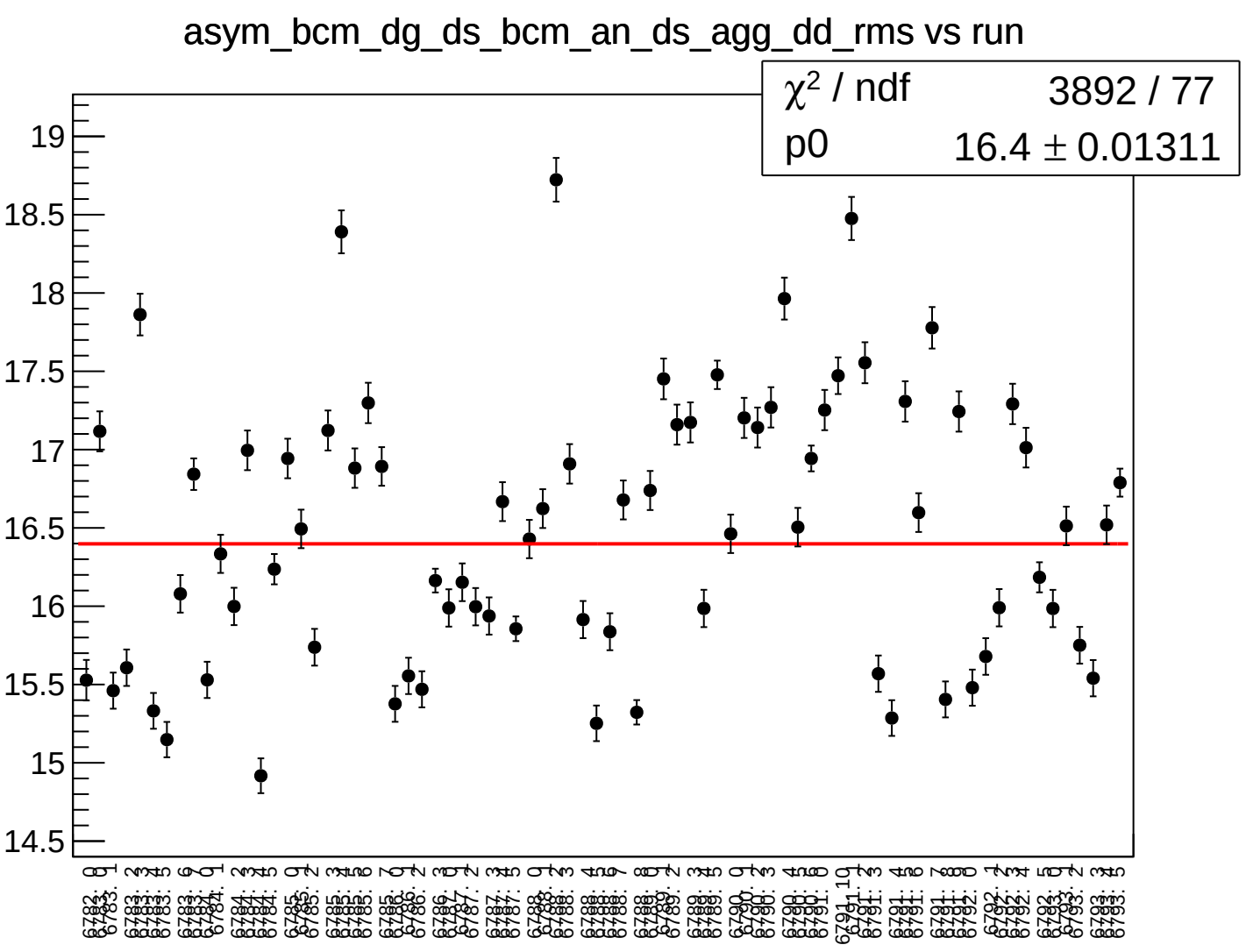

pull1D
Entries 78
Mean 0.00474
Std Dev 1.211

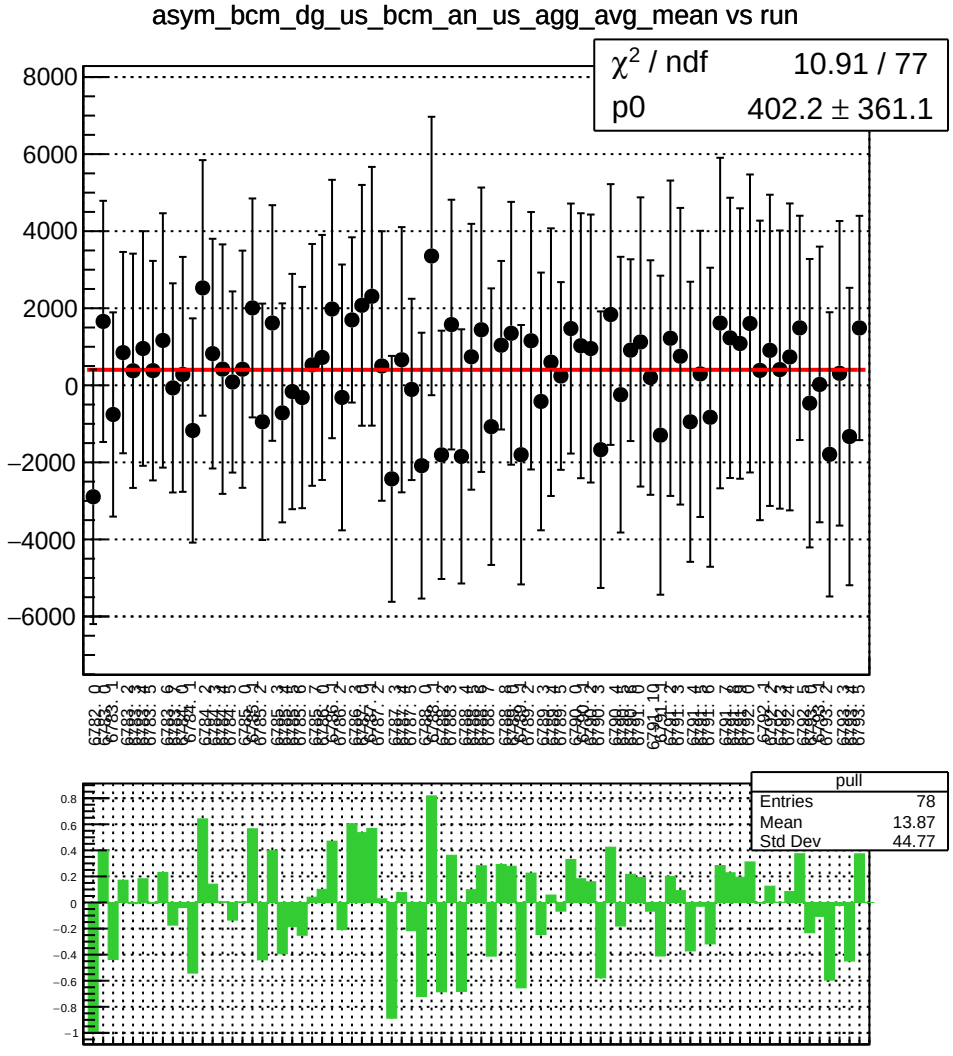

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1132 / 77
p0 22.39 ± 0.01789
24.5
24
23.5
23
22.5
22
21.5
21

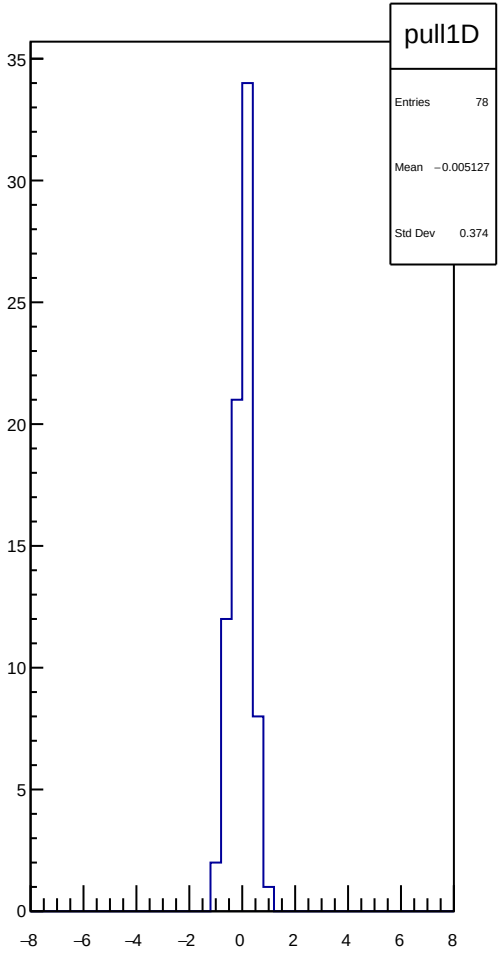

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.74 / 77
p0 344.9 ± 358.3
pull
Entries 78
Mean −39.11
Std Dev 38.15
pull1D
Entries 78
Mean −0.00419
Std Dev 0.3879

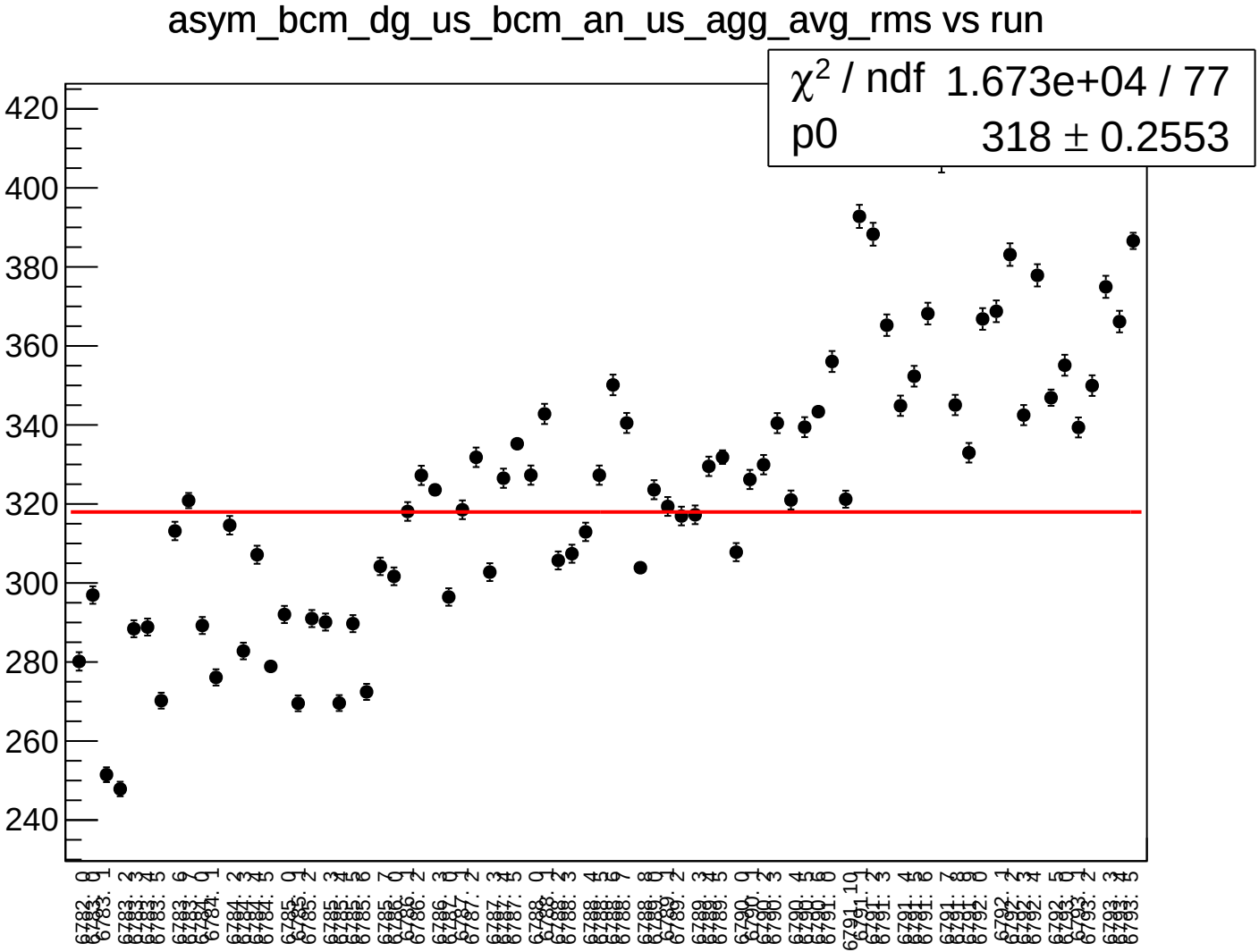

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.696e+04 / 77
p0 315.4 ± 0.2533
420
400
380
360
340
320
300
280
260
240

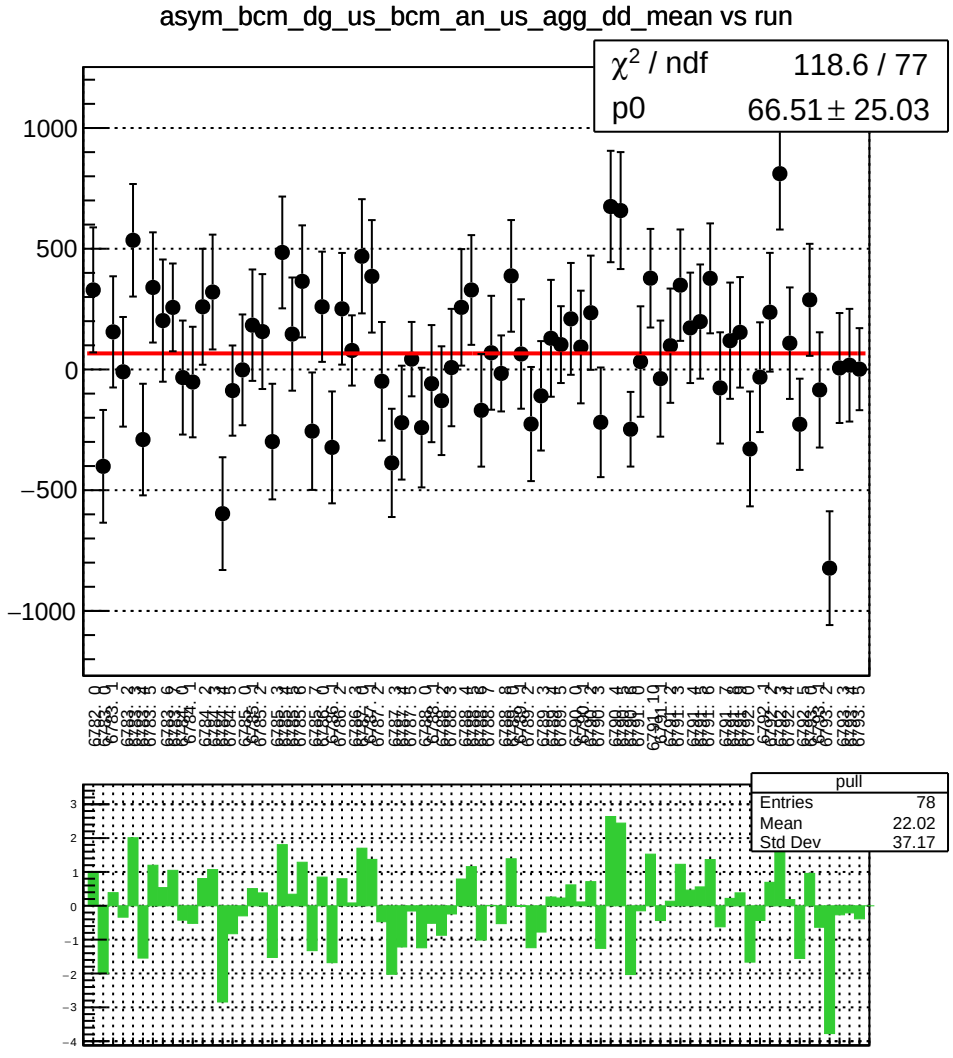

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 76.87 / 77
p0 −4.658 ± 18.55
pull
Entries 78
Mean −4.389
Std Dev 20.99
pull1D
Entries 78
Mean −0.02352
Std Dev 0.9924

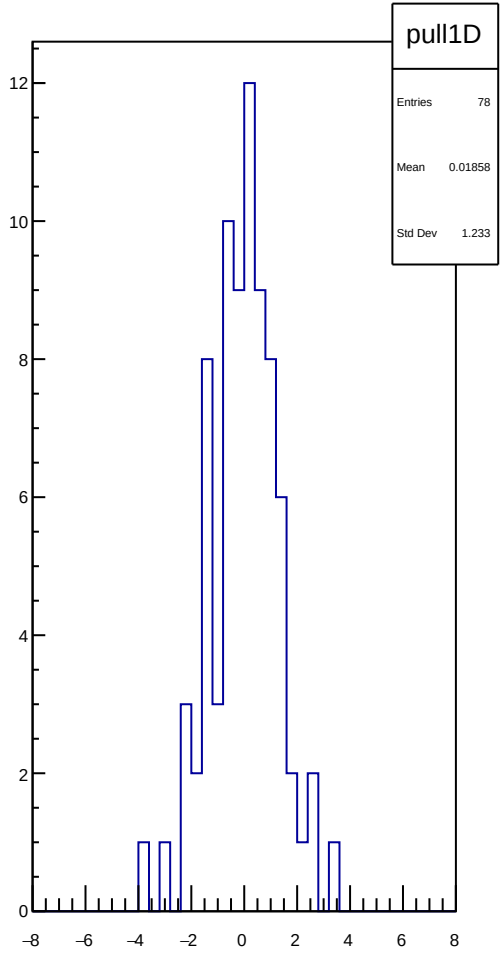

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3892 / 77
p0 16.4 ± 0.01311
19
18.5
18
17.5
17
16.5
16
15.5
15
14.5

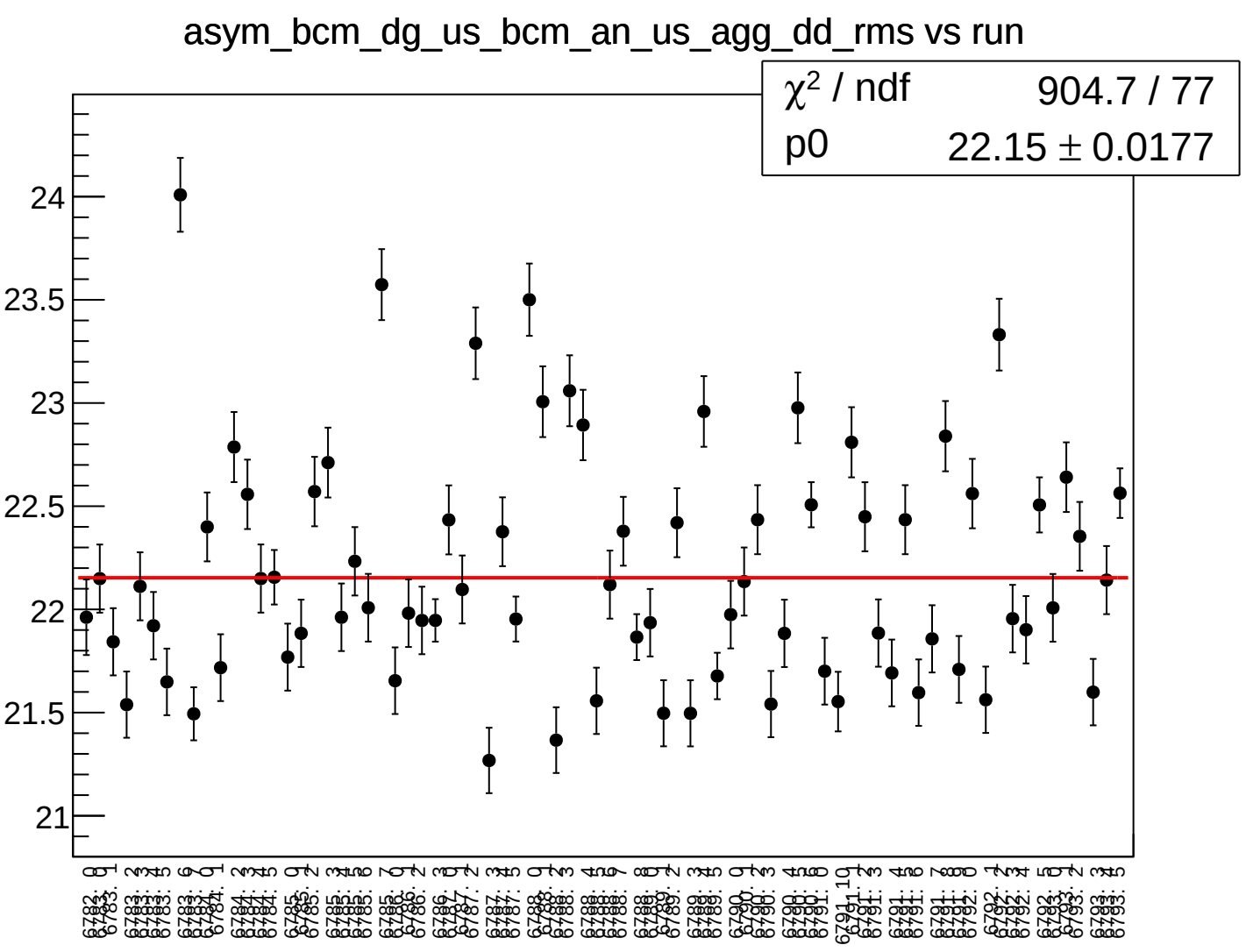

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.91 / 77
p0 402.2 ± 361.1
pull
Entries 78
Mean 13.87
Std Dev 44.77

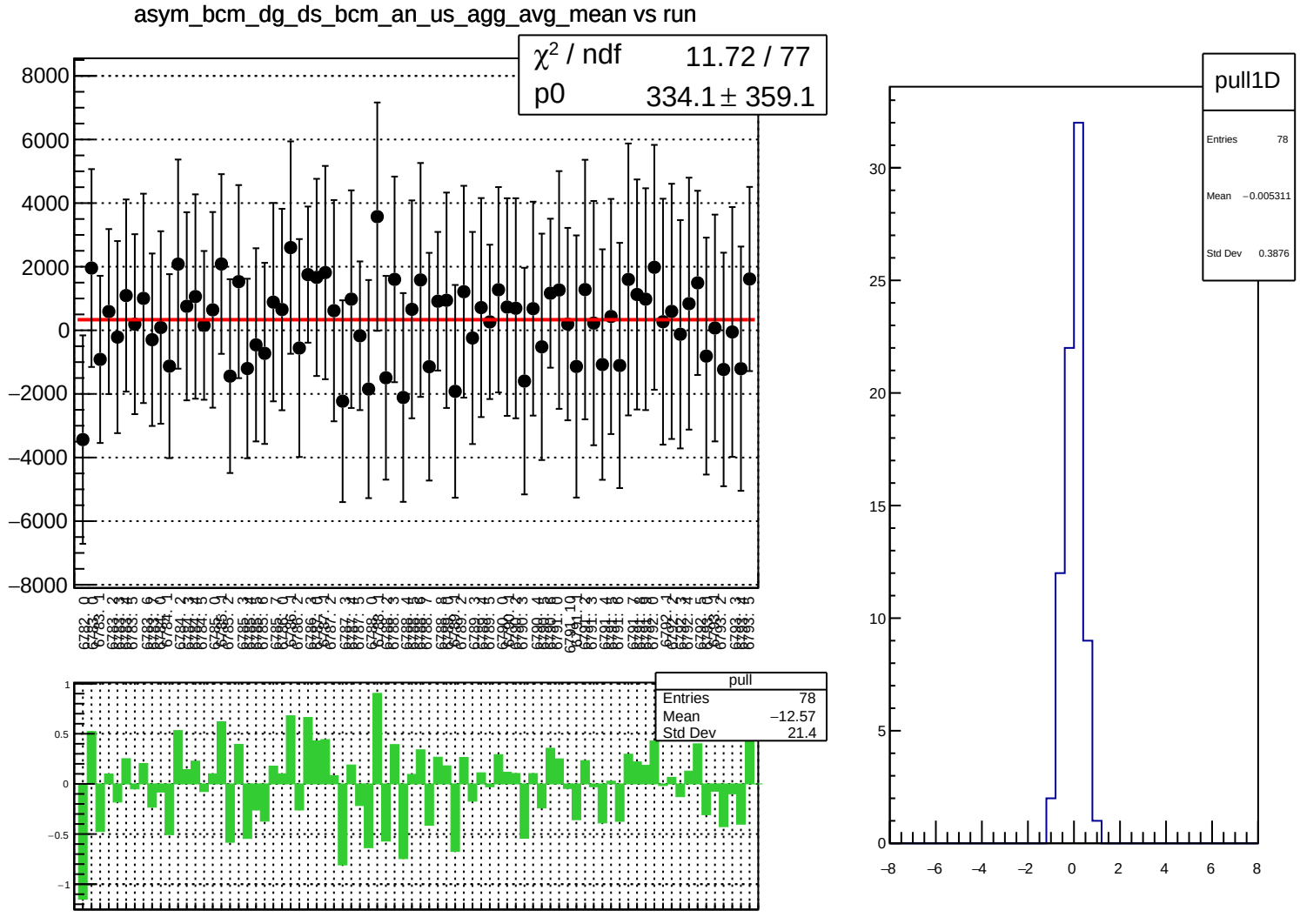

pull1D
Entries 78
Mean −0.005127
Std Dev 0.374

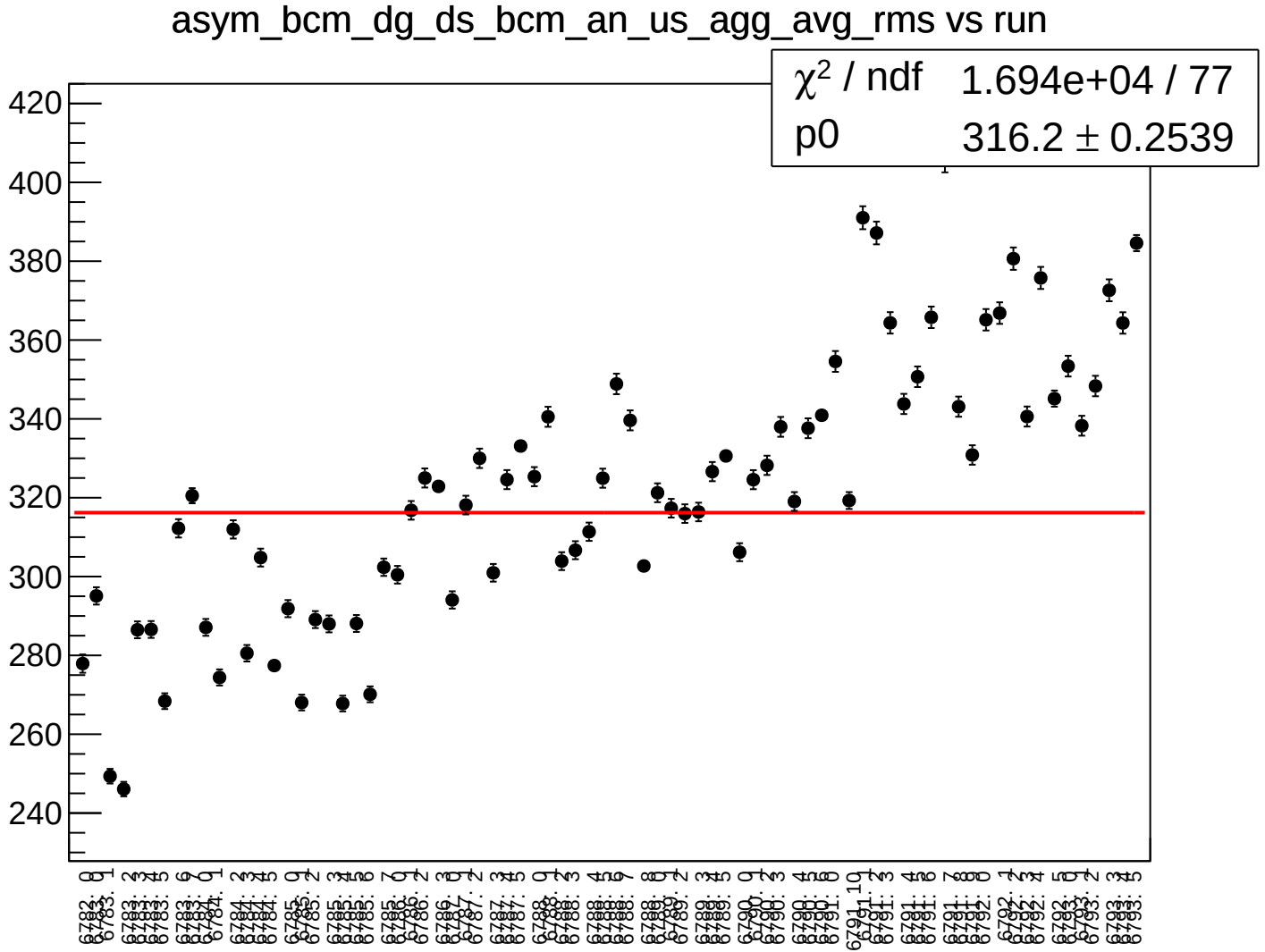

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.673e+04 / 77
p0 318 ± 0.2553
420
400
380
360
340
320
300
280
260
240

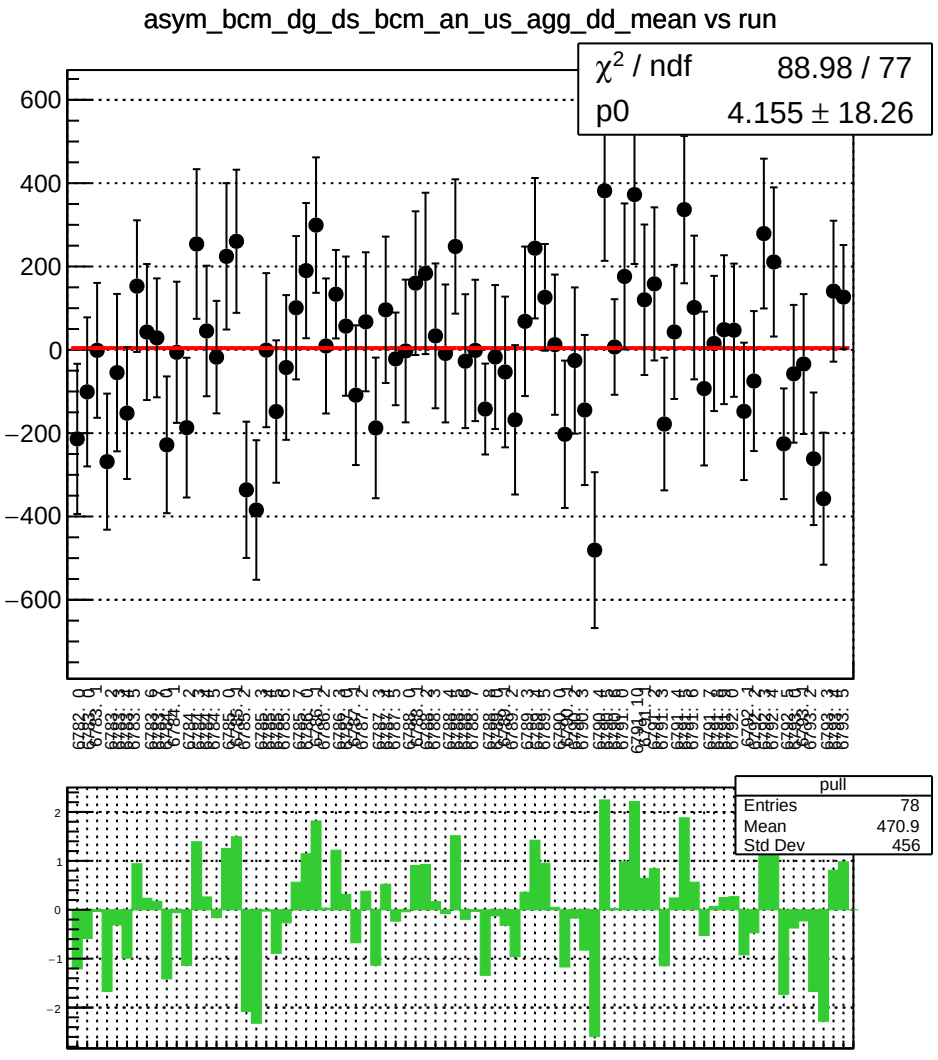

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 118.6 / 77
p0 66.51 ± 25.03
1000
500
0
−500
−1000
pull
Entries 78
Mean 22.02
Std Dev 37.17
3
2
1
0
−1
−2
−3
−4

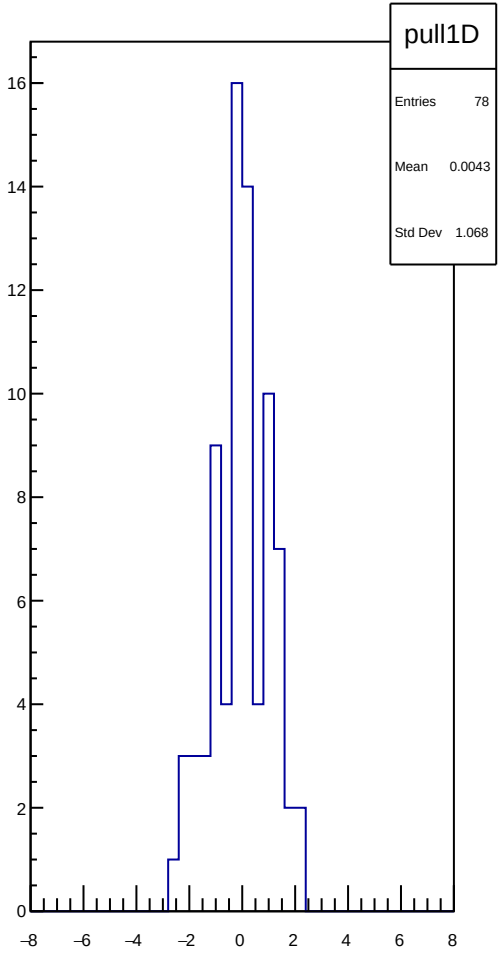

pull1D
Entries 78
Mean 0.01858
Std Dev 1.233
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

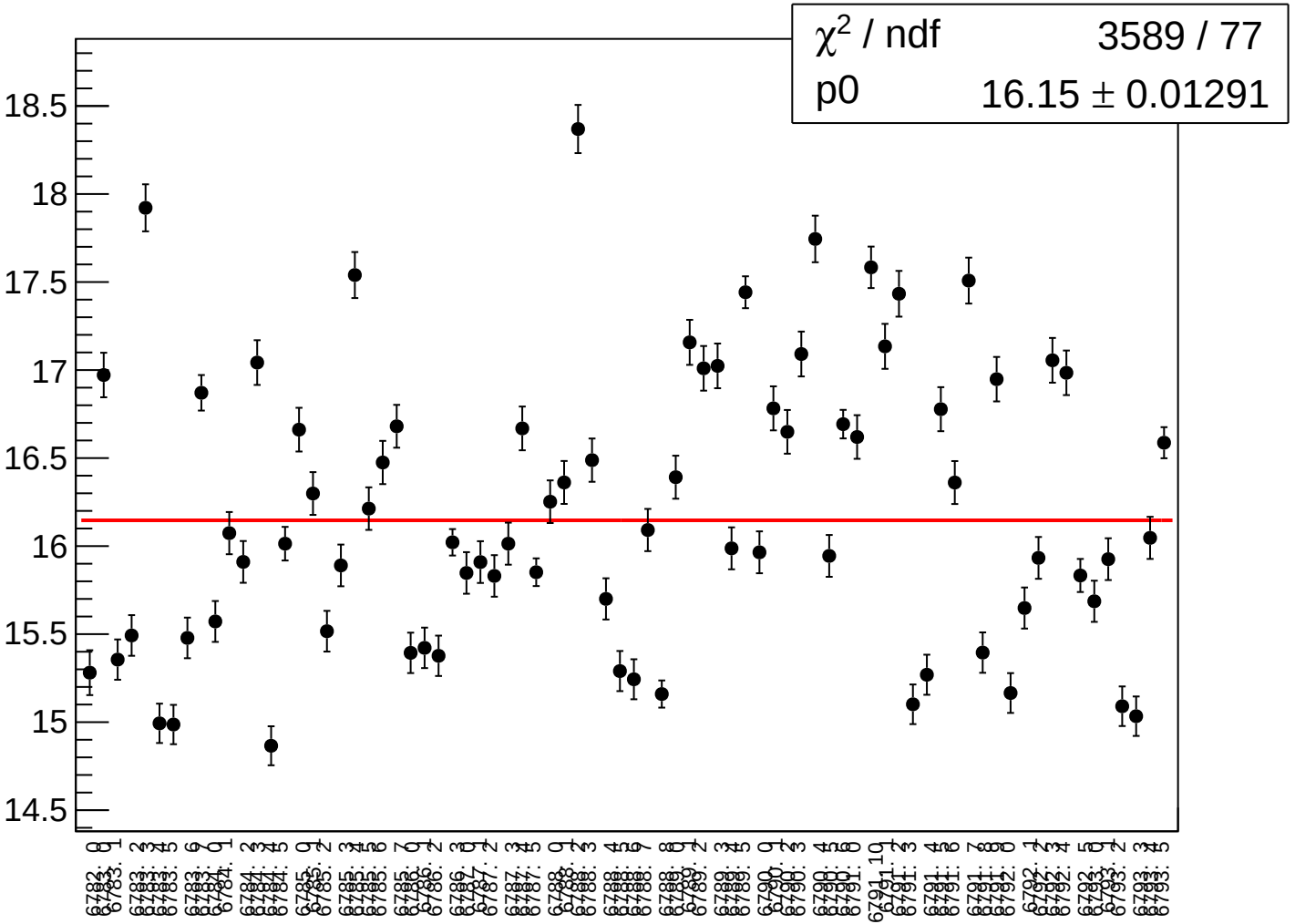

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 904.7 / 77
p0 22.15 ± 0.0177
24
23.5
23
22.5
22
21.5
21

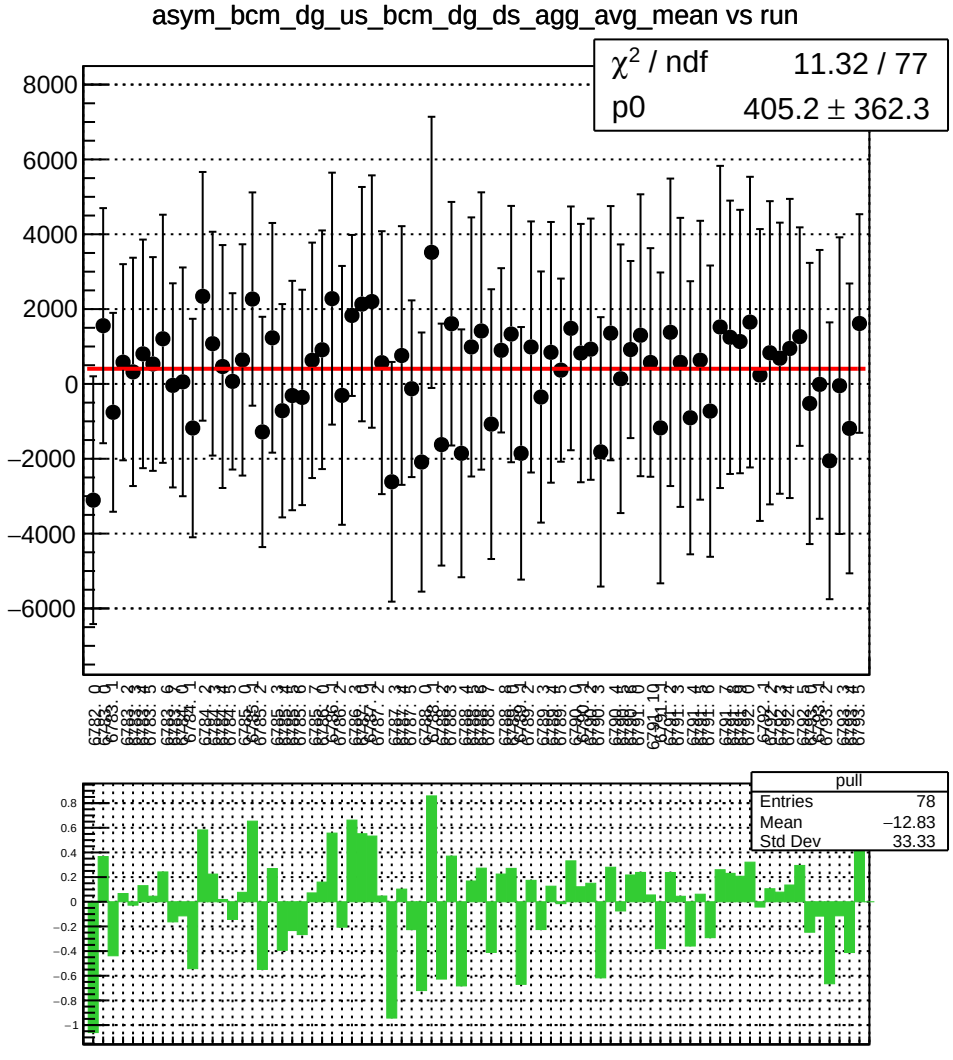

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 11.72 / 77
p0 334.1 ± 359.1
pull
Entries 78
Mean −12.57
Std Dev 21.4
pull1D
Entries 78
Mean −0.005311
Std Dev 0.3876

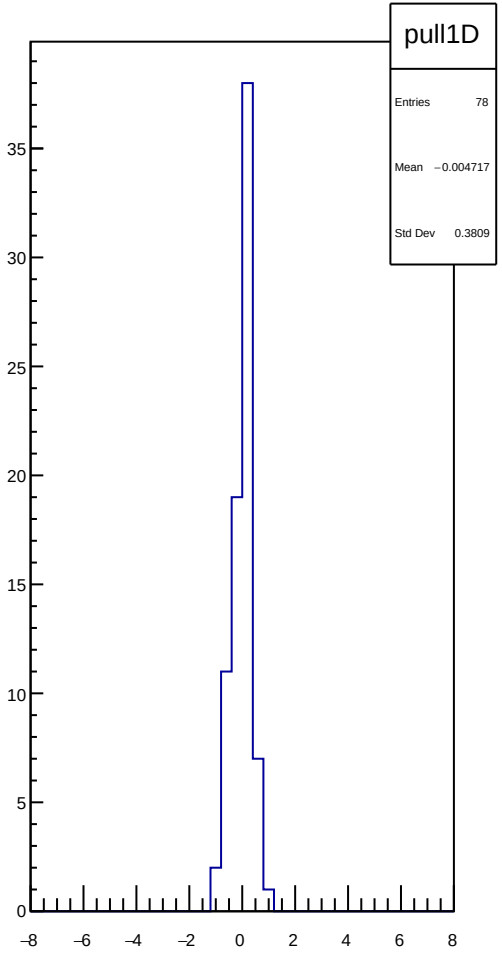

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.694e+04 / 77
p0 316.2 ± 0.2539
420
400
380
360
340
320
300
280
260
240

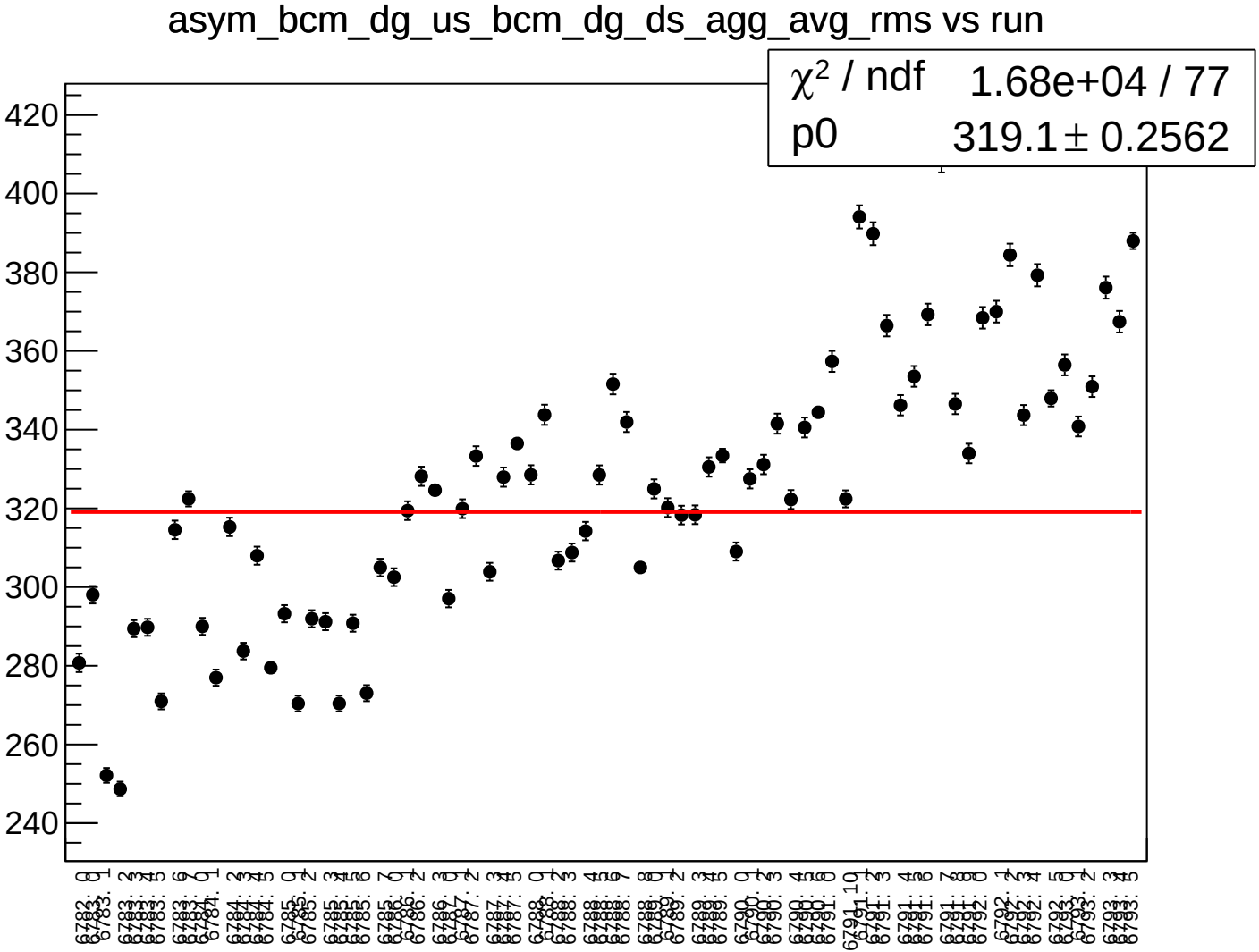

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 88.98 / 77
p0 4.155 ± 18.26
pull
Entries 78
Mean 470.9
Std Dev 456

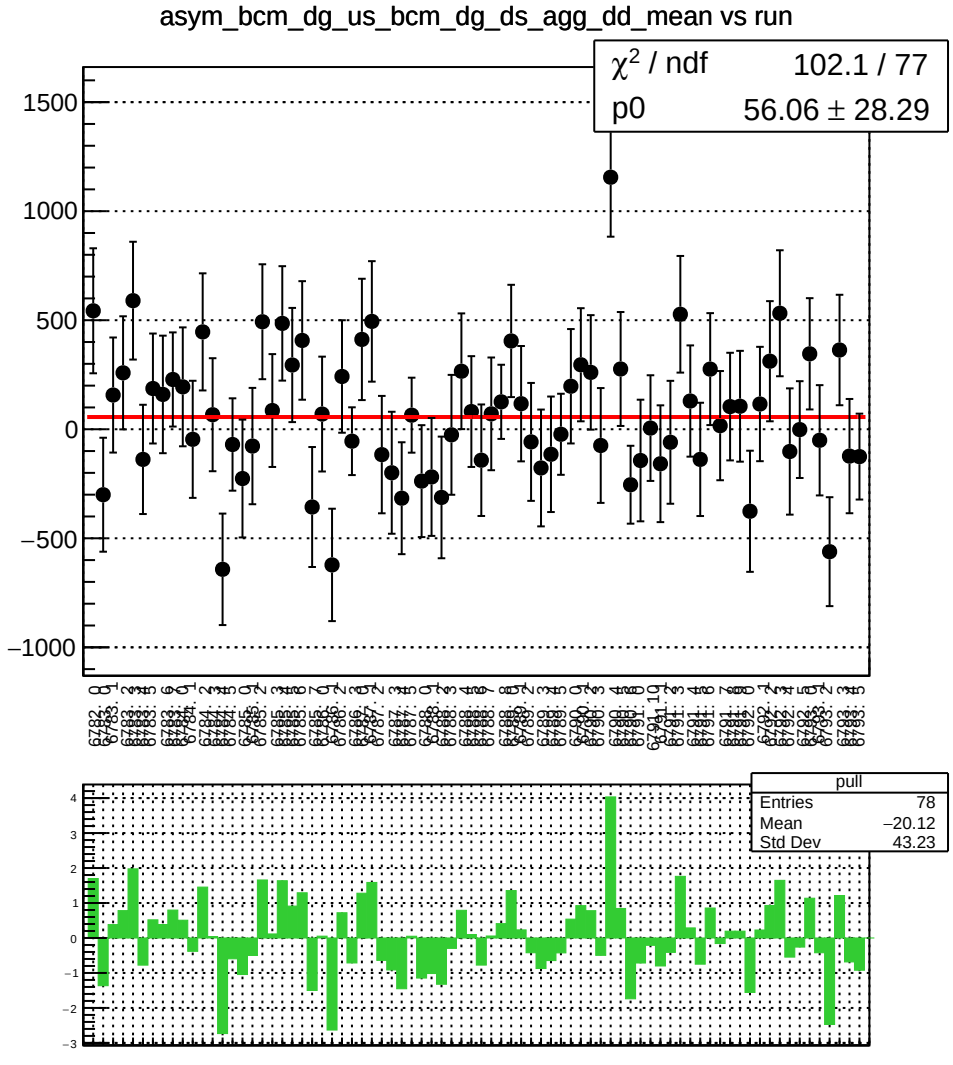

pull1D
Entries 78
Mean 0.0043
Std Dev 1.068

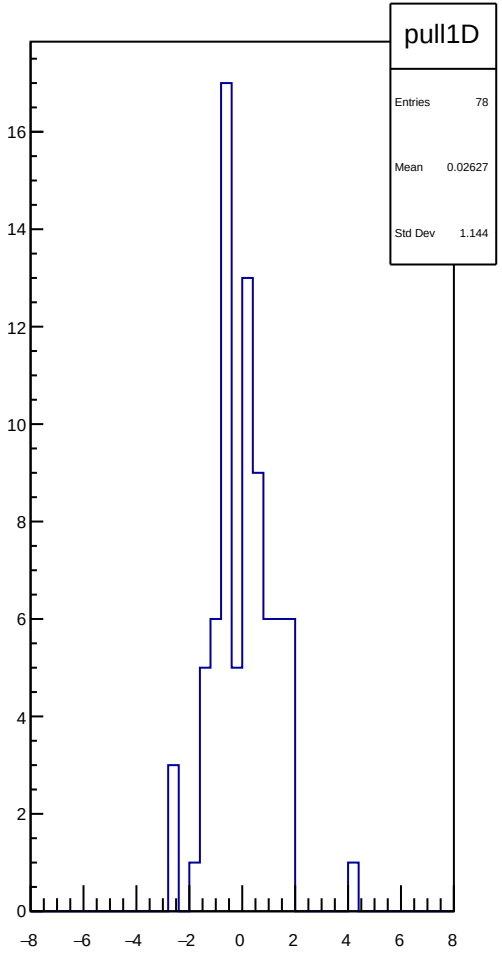

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3589 / 77
p0 16.15 ± 0.01291
18.5
18
17.5
17
16.5
16
15.5
15
14.5

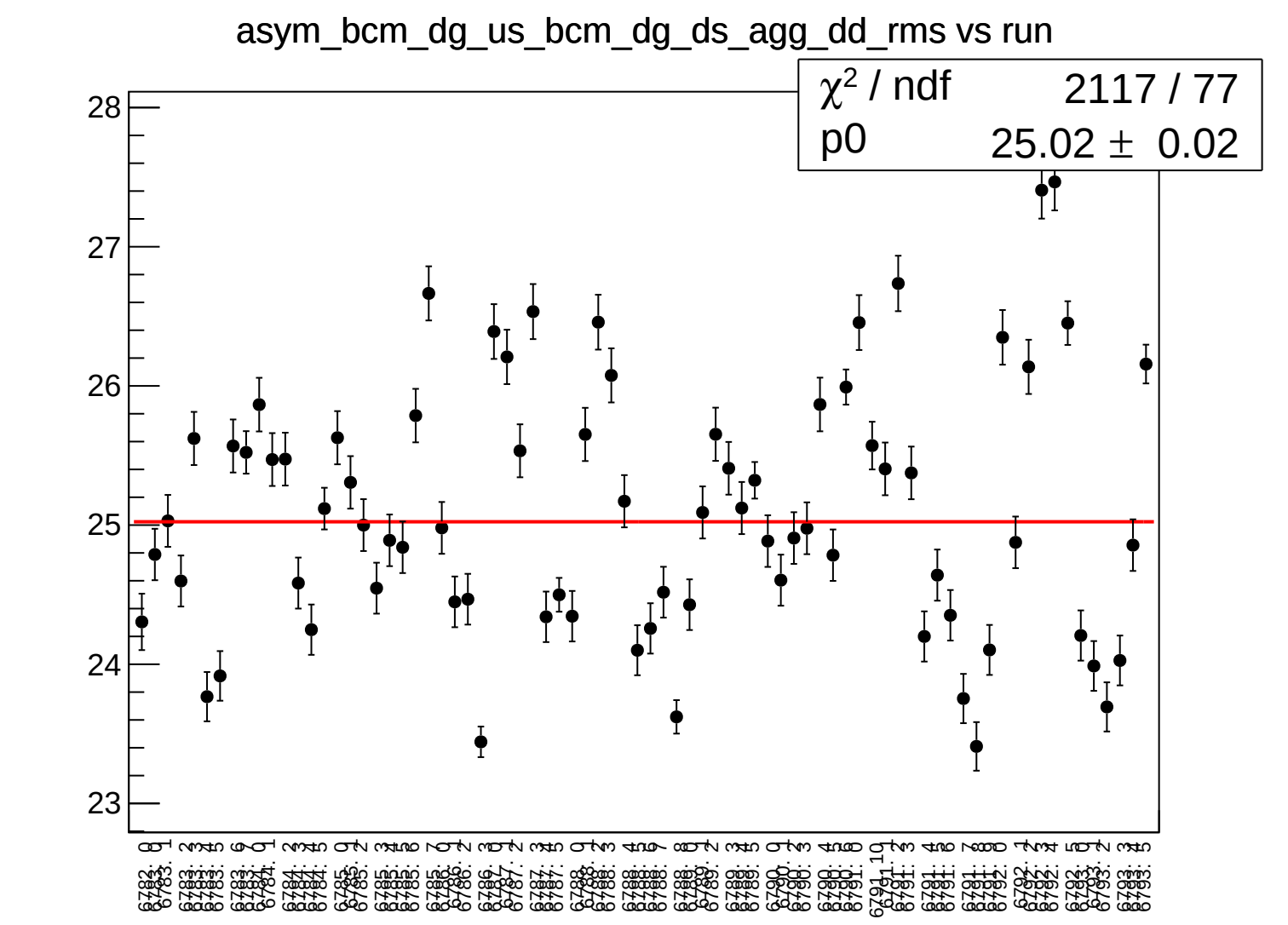

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 11.32 / 77
p0 405.2 ± 362.3
pull
Entries 78
Mean −12.83
Std Dev 33.33

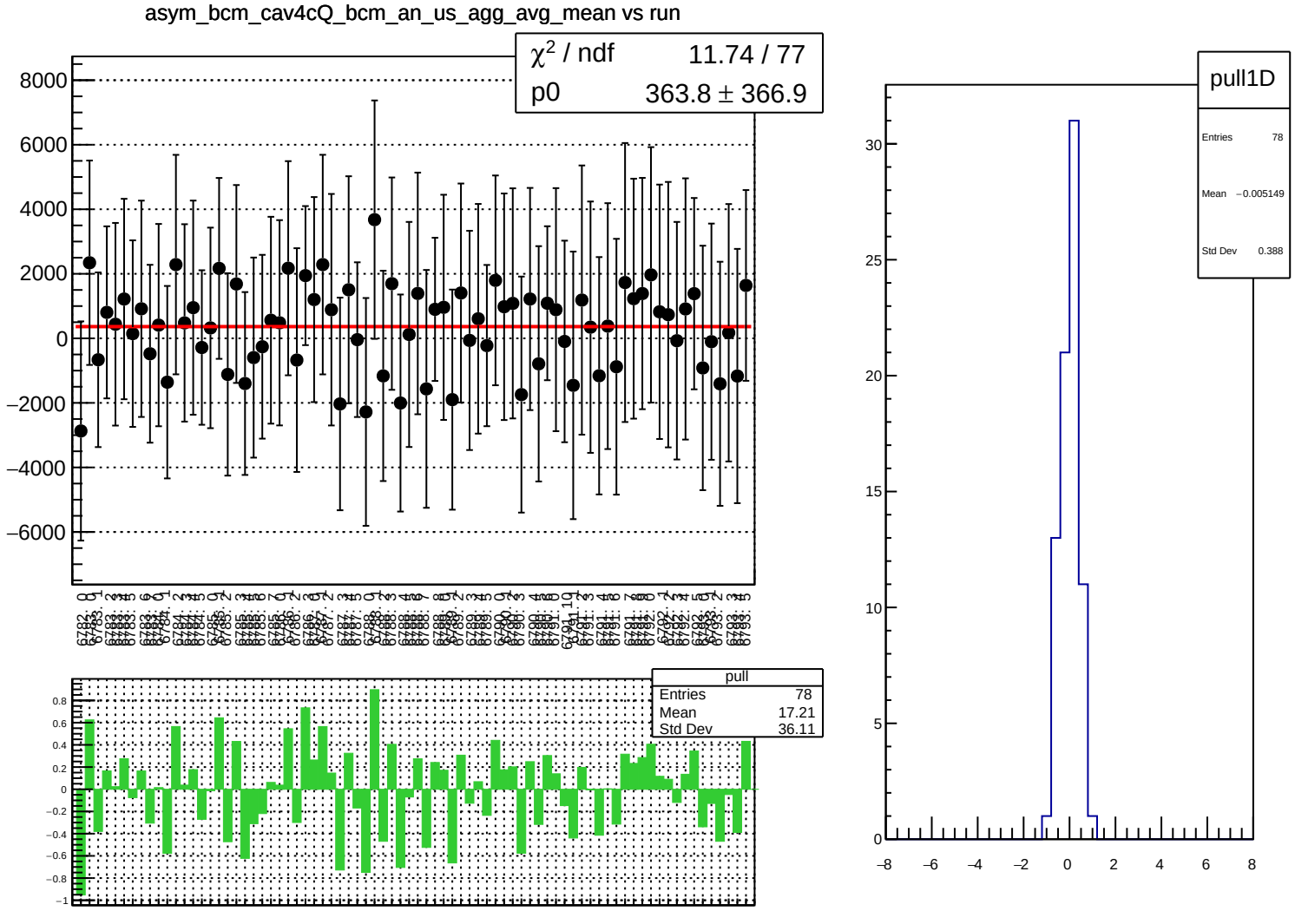

pull1D
Entries 78
Mean −0.004717
Std Dev 0.3809

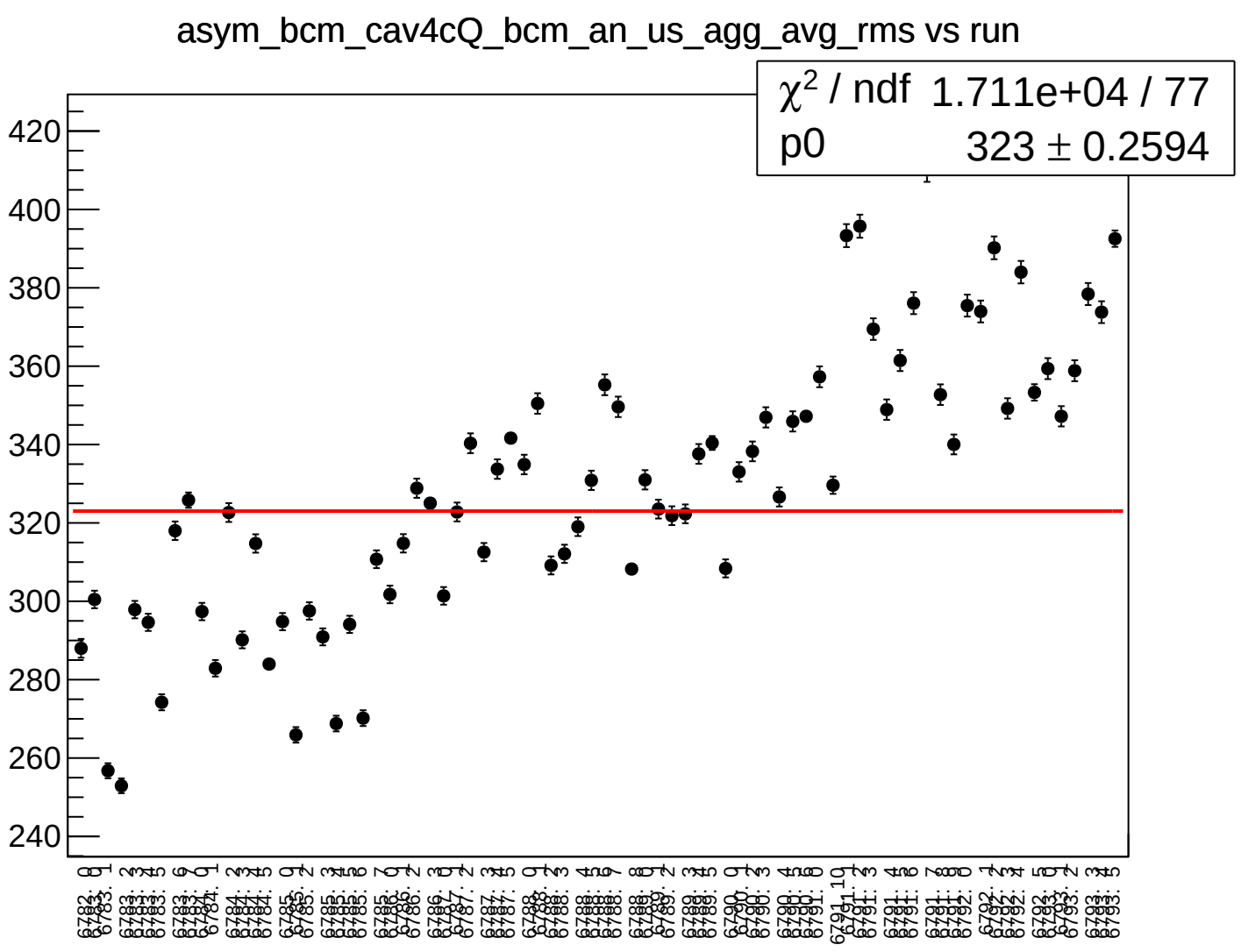

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.68e+04 / 77
p0 319.1 ± 0.2562
420
400
380
360
340
320
300
280
260
240

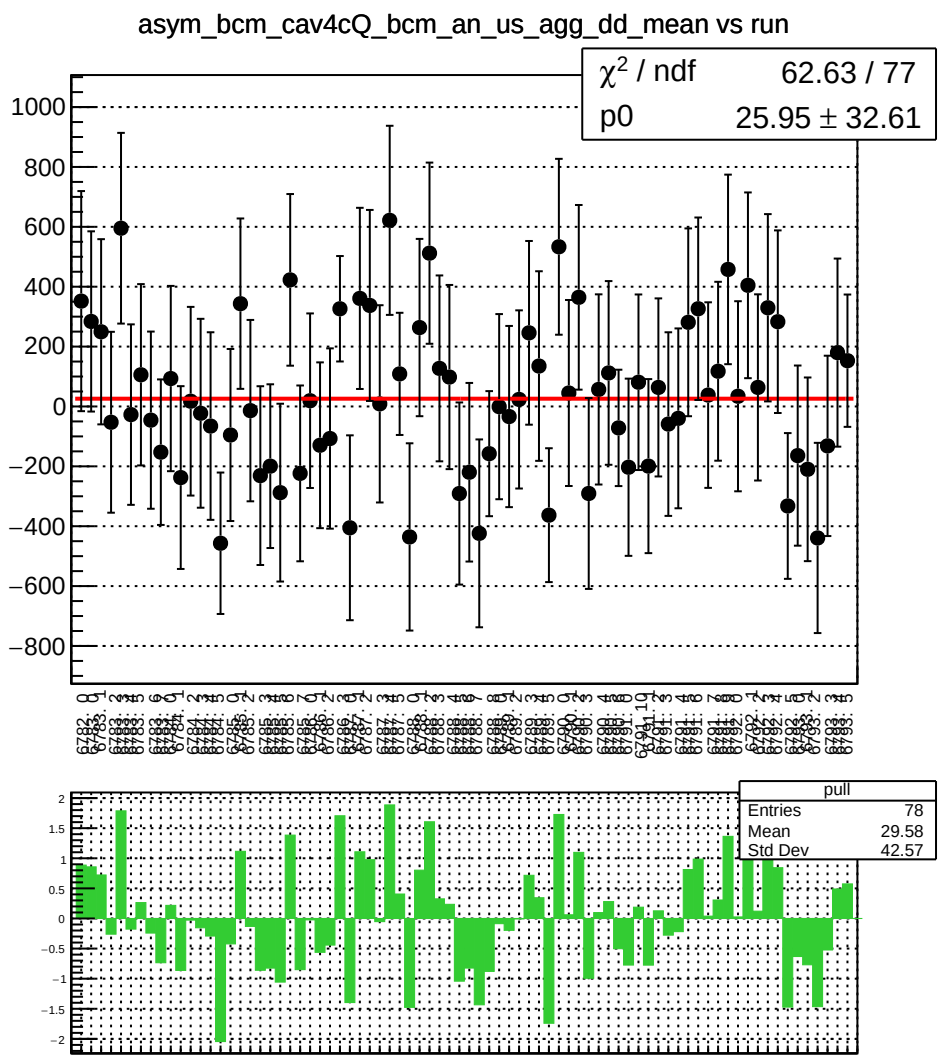

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 102.1 / 77
p0 56.06 ± 28.29
pull
Entries 78
Mean −20.12
Std Dev 43.23

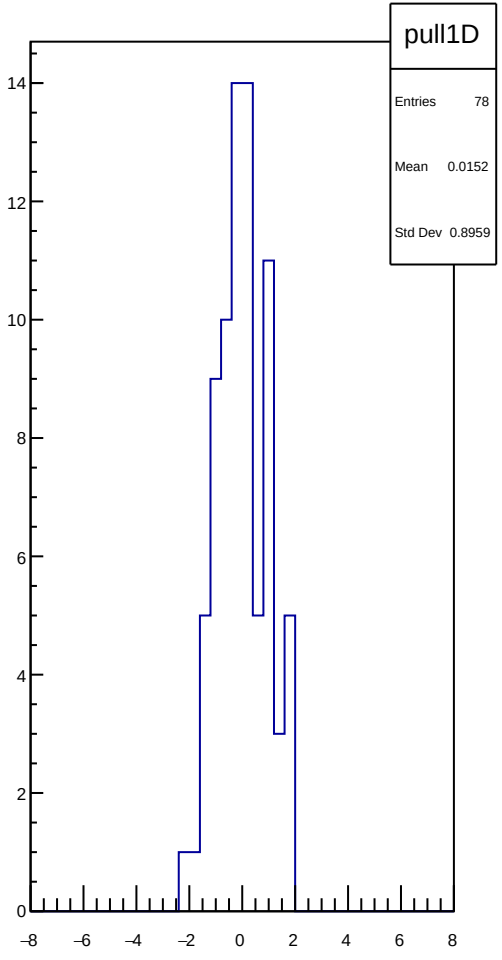

pull1D
Entries 78
Mean 0.02627
Std Dev 1.144

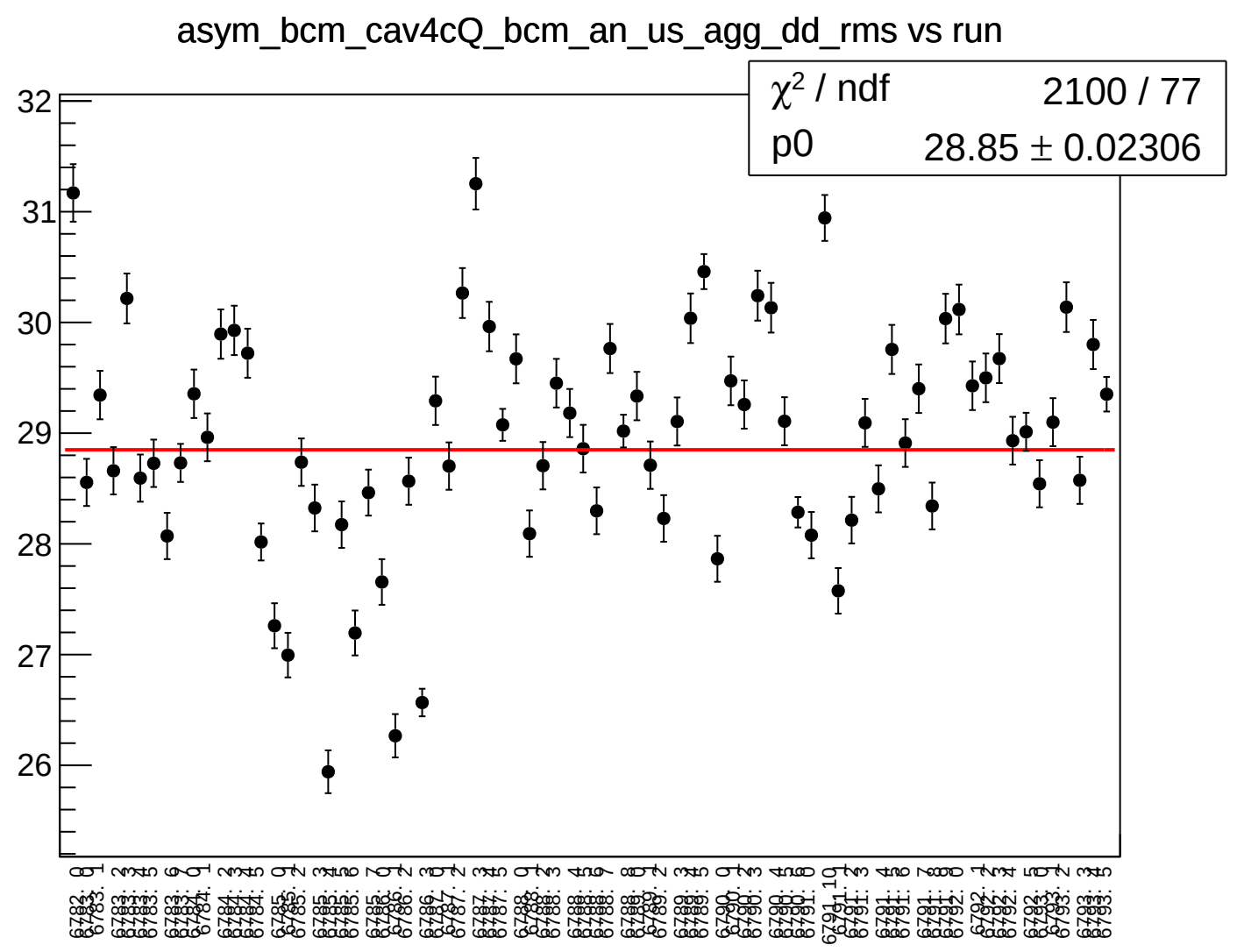

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2117 / 77
p0 25.02 ± 0.02
28
27
26
25
24
23

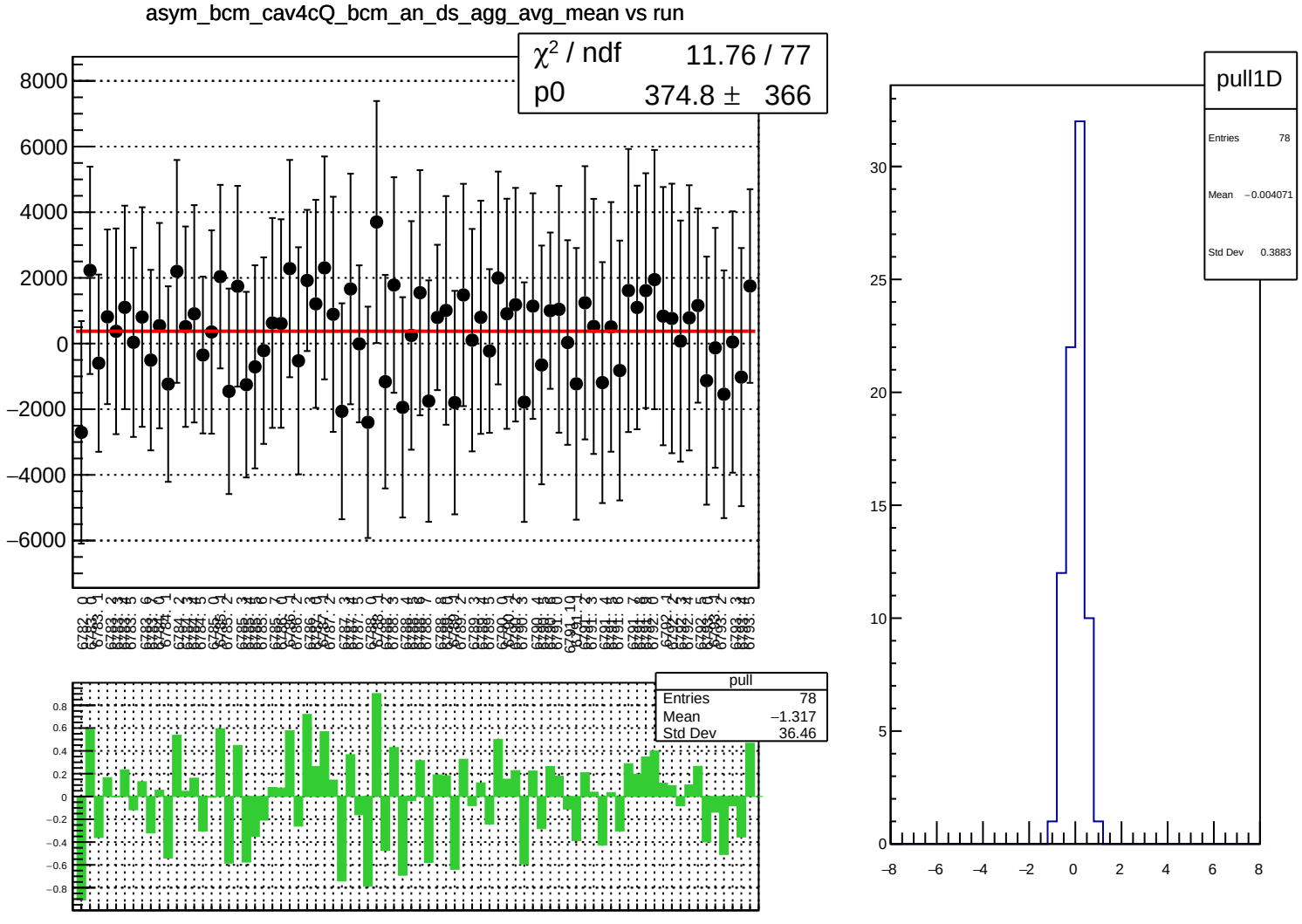

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 11.74 / 77
p0 363.8 ± 366.9
pull
Entries 78
Mean 17.21
Std Dev 36.11
pull1D
Entries 78
Mean −0.005149
Std Dev 0.388

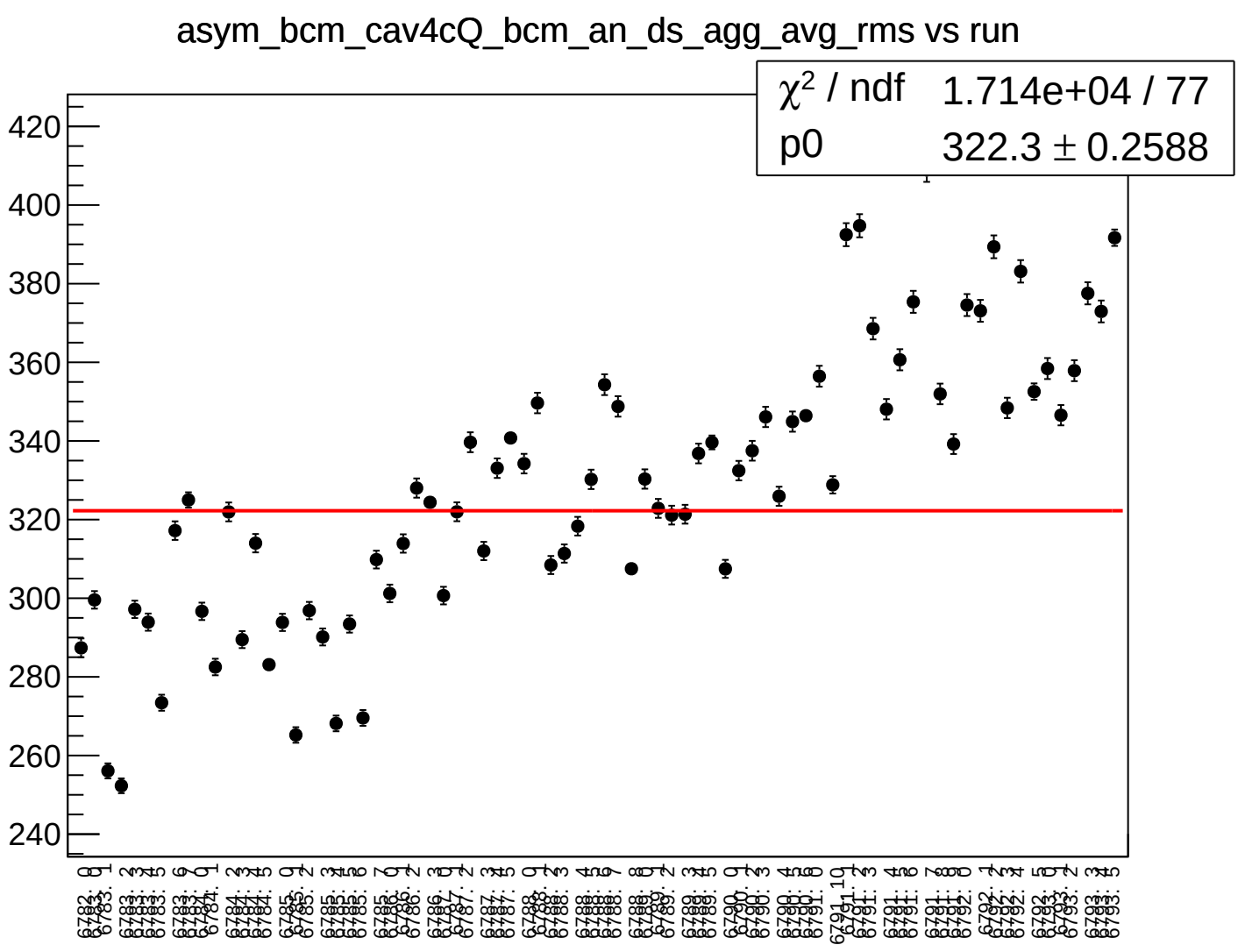

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.711e+04 / 77
p0 323 ± 0.2594
420
400
380
360
340
320
300
280
260
240

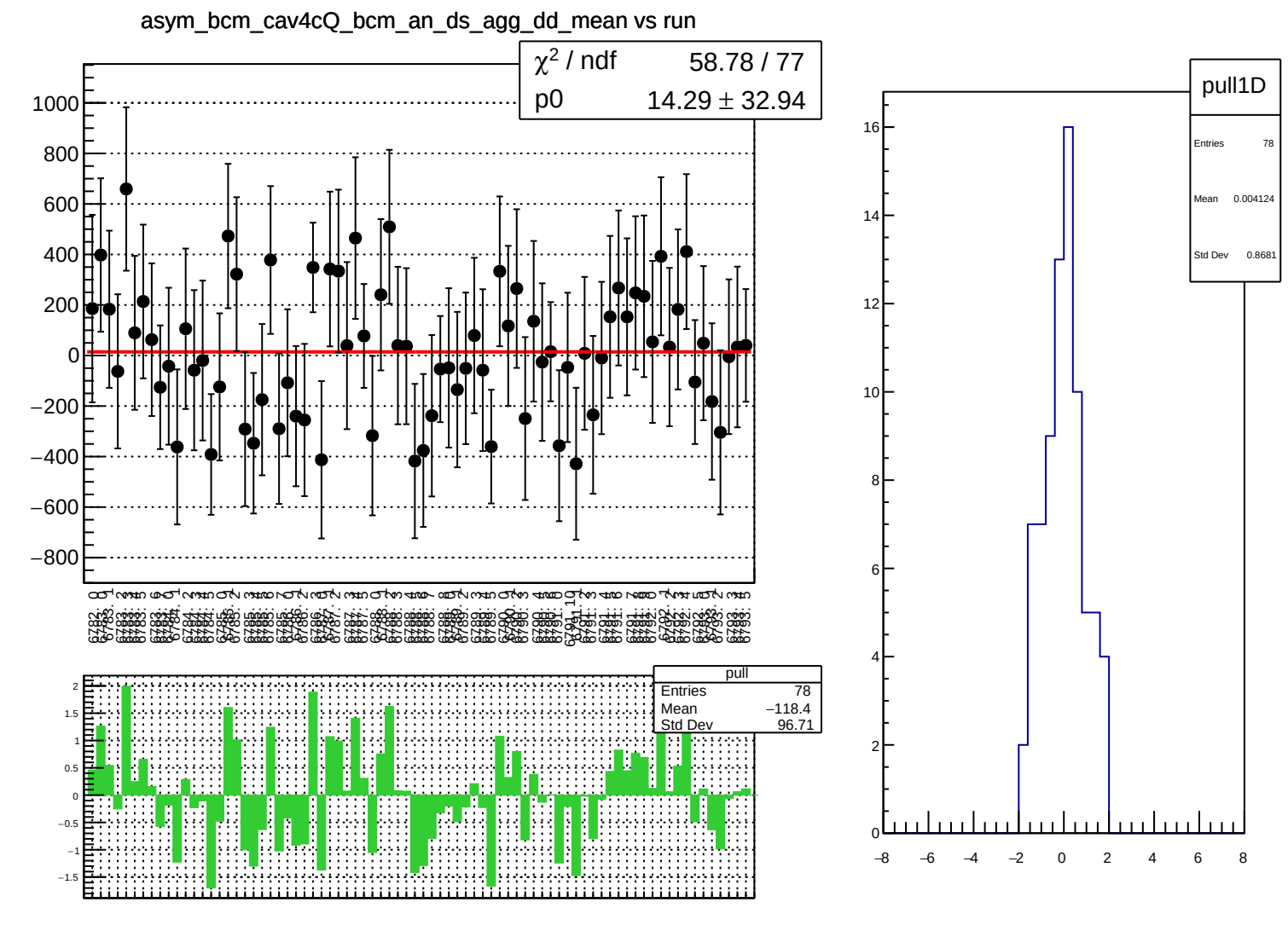

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 62.63 / 77
p0 25.95 ± 32.61
pull
Entries 78
Mean 29.58
Std Dev 42.57

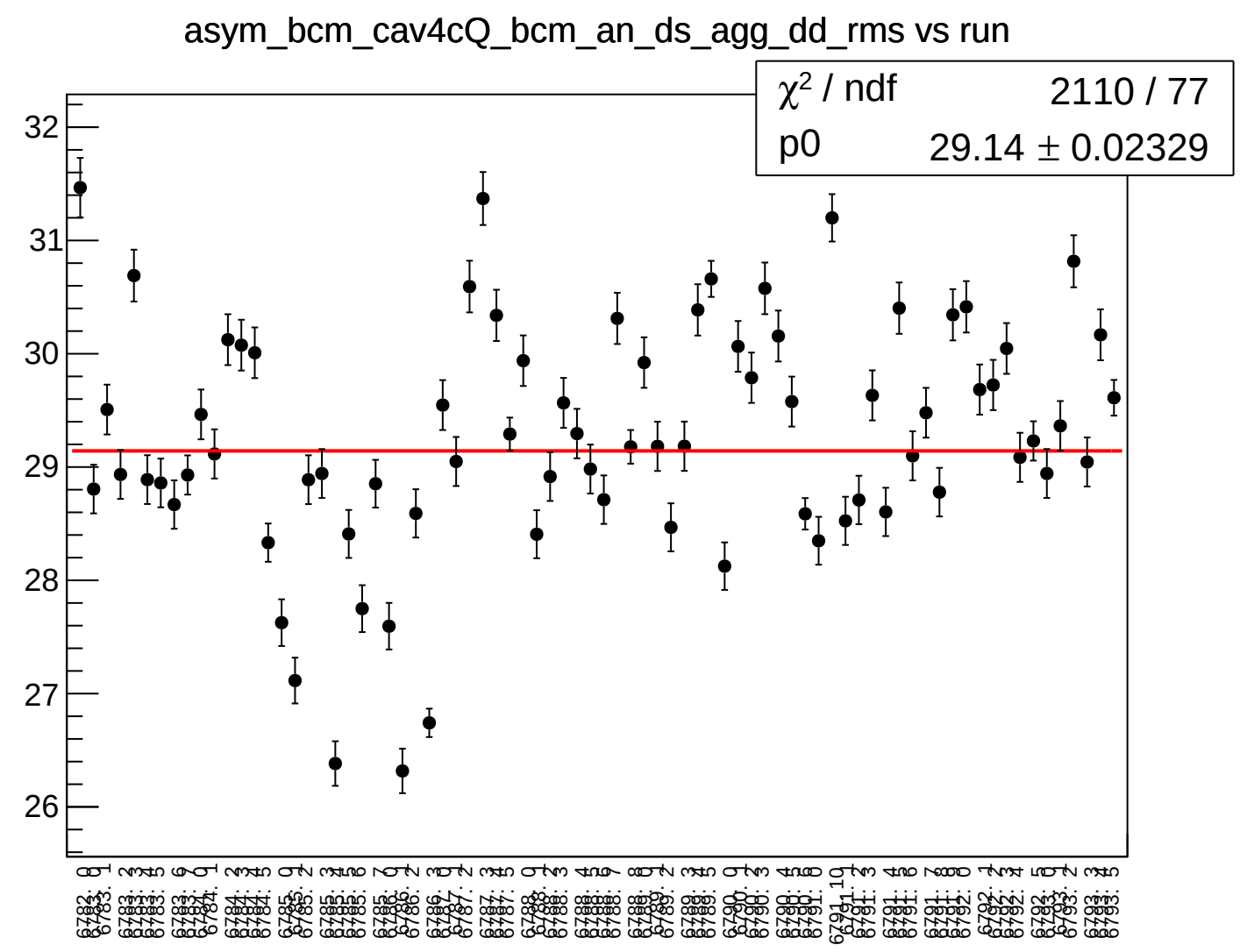

pull1D
Entries 78
Mean 0.0152
Std Dev 0.8959

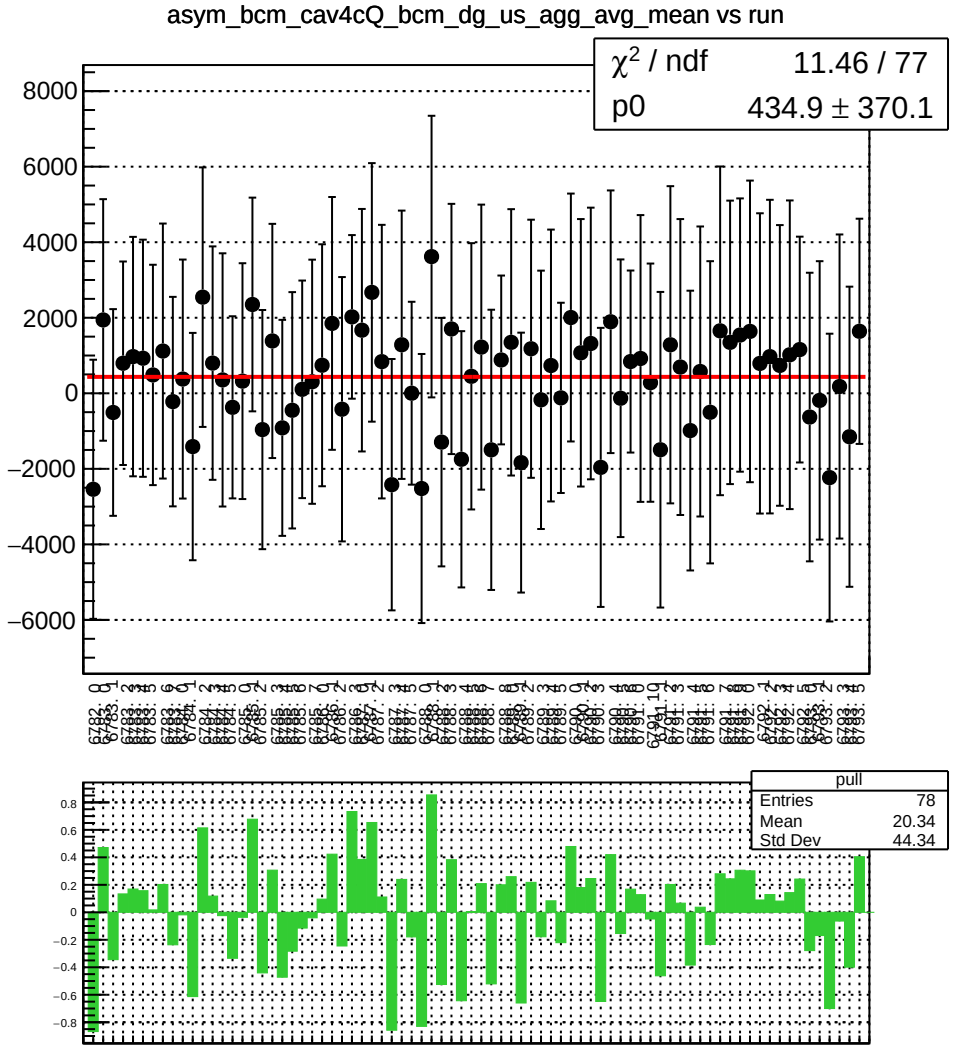

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2100 / 77
p0 28.85 ± 0.02306
32
31
30
29
28
27
26

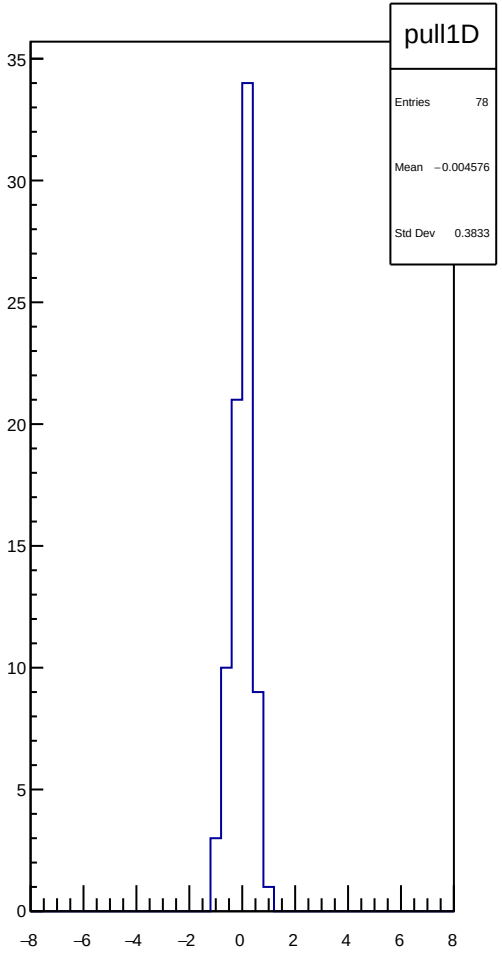

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.76 / 77
p0 374.8 ± 366
pull
Entries 78
Mean −1.317
Std Dev 36.46
pull1D
Entries 78
Mean −0.004071
Std Dev 0.3883

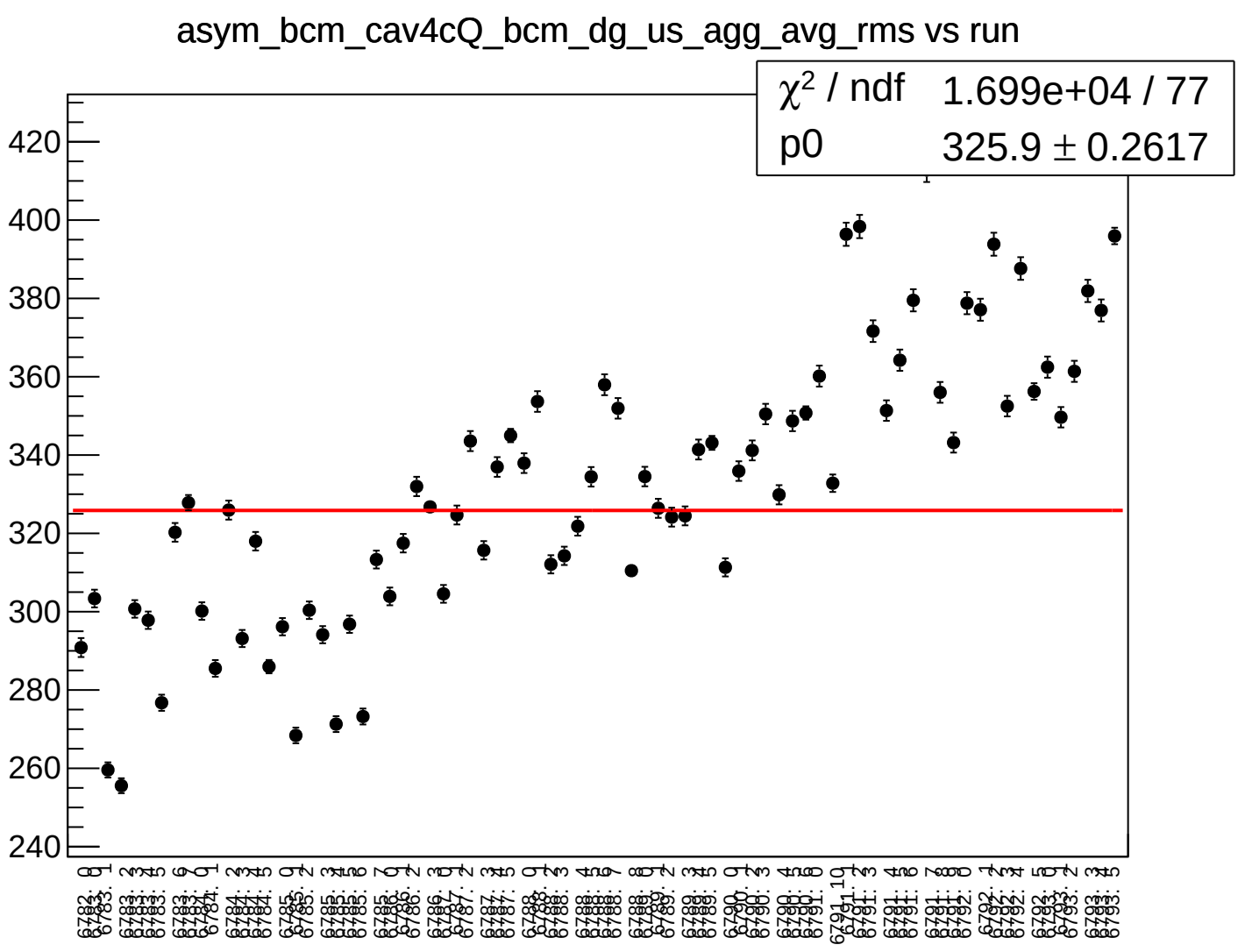

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.714e+04 / 77
p0 322.3 ± 0.2588
420
400
380
360
340
320
300
280
260
240

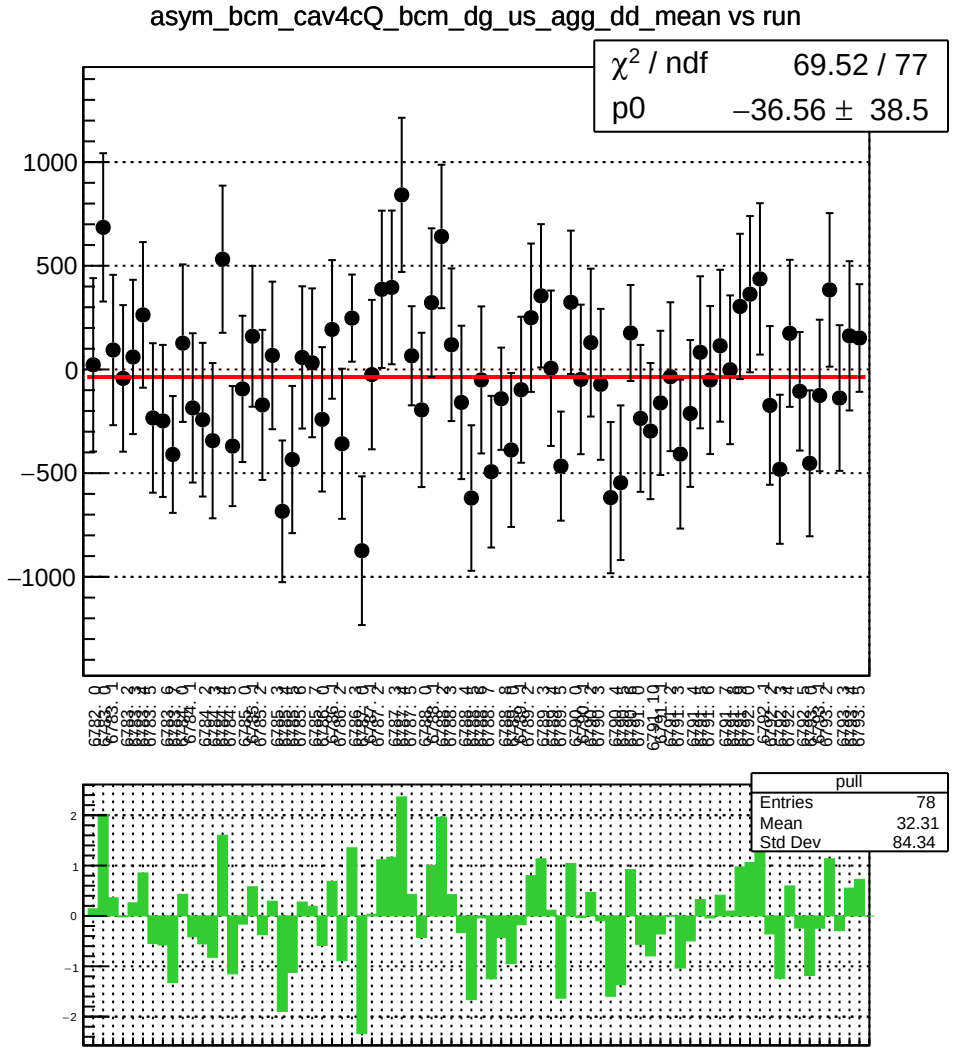

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 58.78 / 77
p0 14.29 ± 32.94
pull
Entries 78
Mean −118.4
Std Dev 96.71
pull1D
Entries 78
Mean 0.004124
Std Dev 0.8681

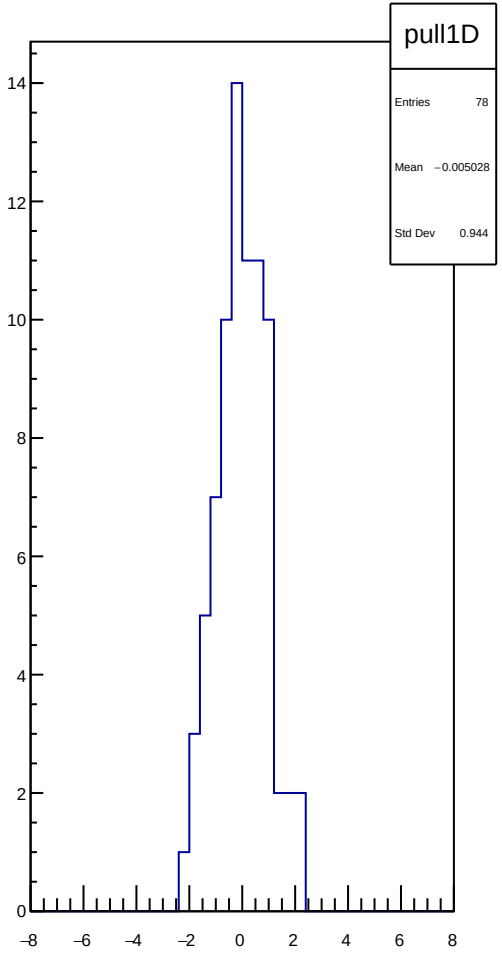

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2110 / 77
p0 29.14 ± 0.02329
32
31
30
29
28
27
26

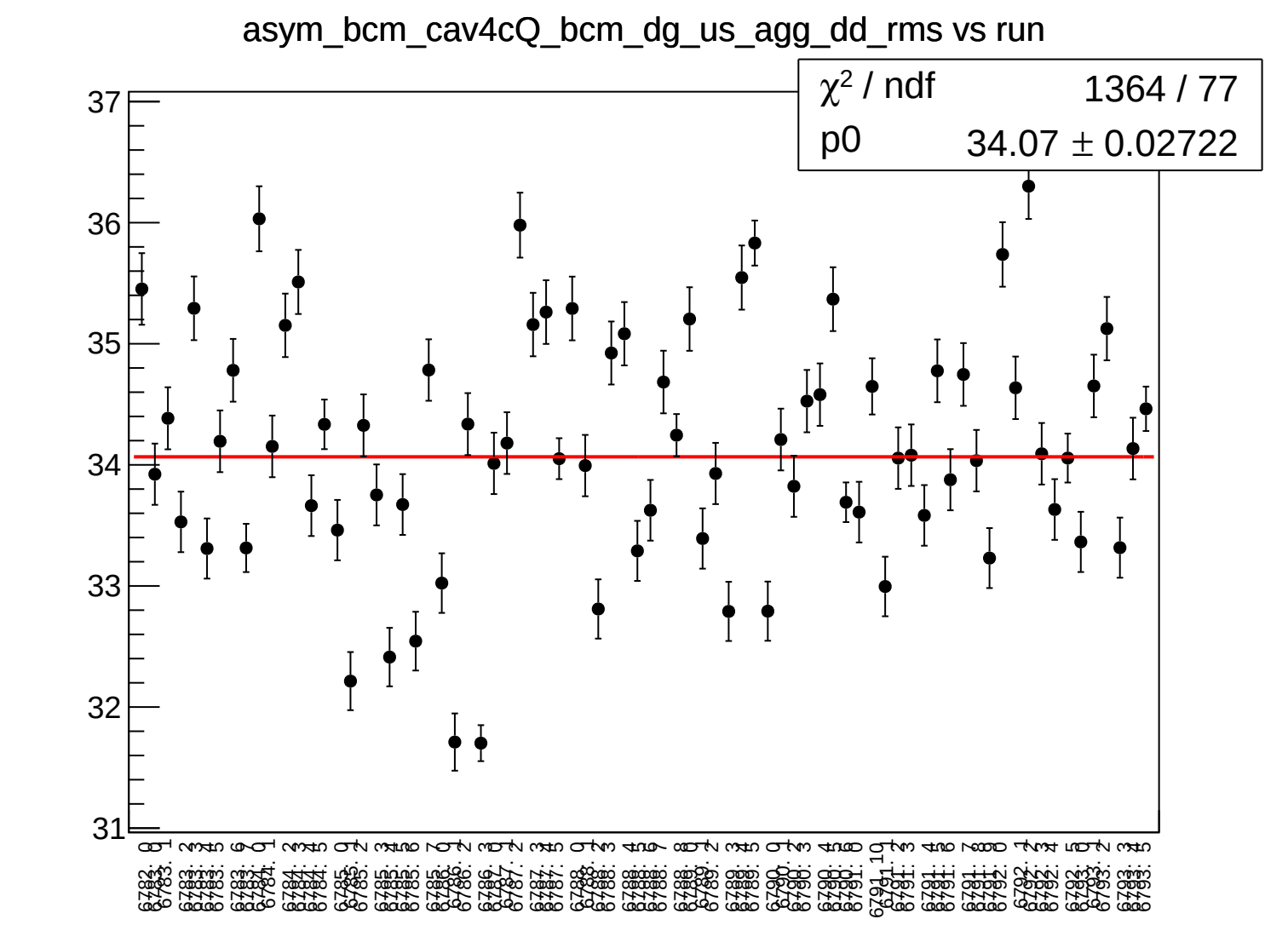

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 11.46 / 77
p0 434.9 ± 370.1
pull
Entries 78
Mean 20.34
Std Dev 44.34

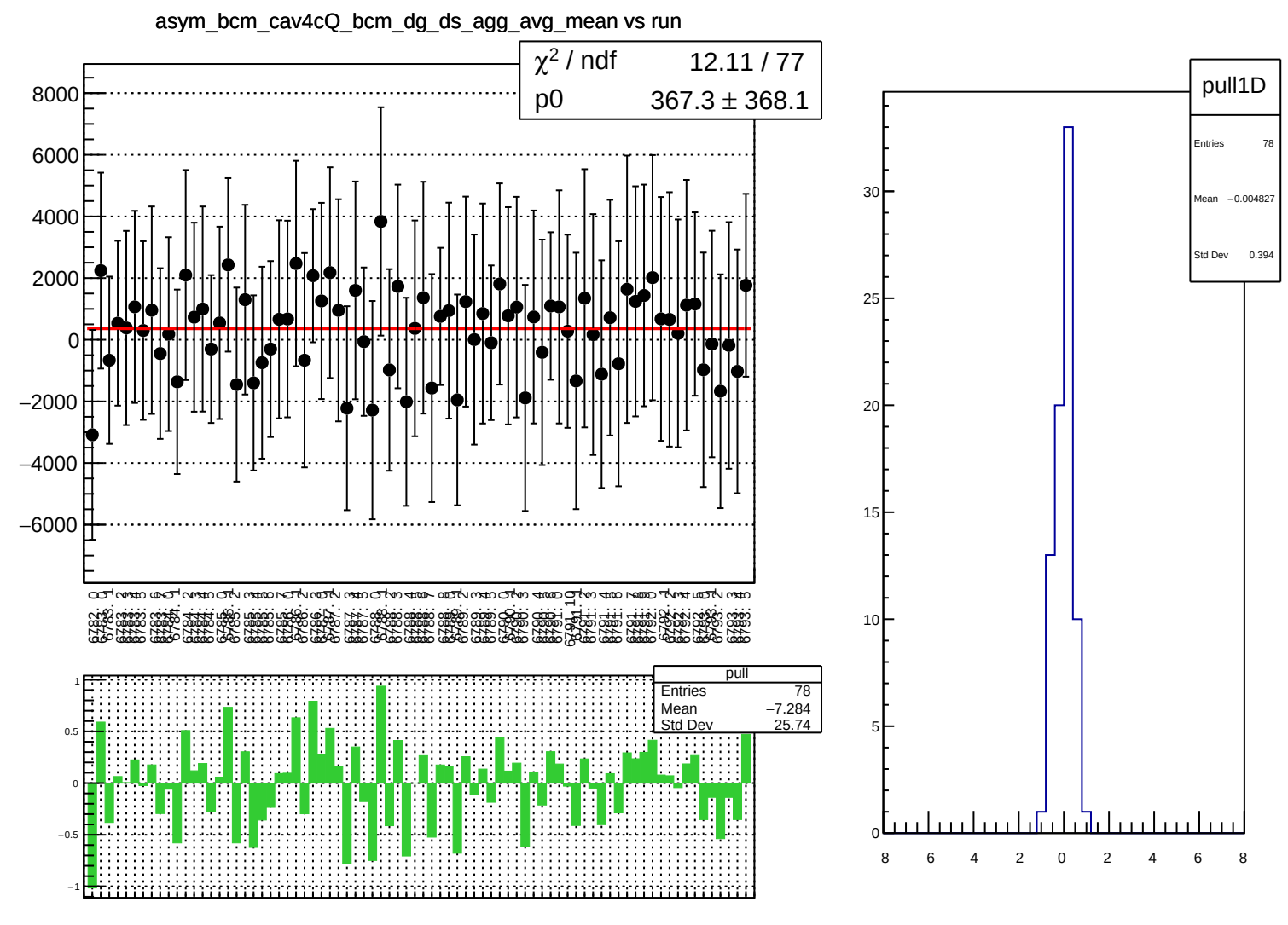

pull1D
Entries 78
Mean −0.004576
Std Dev 0.3833

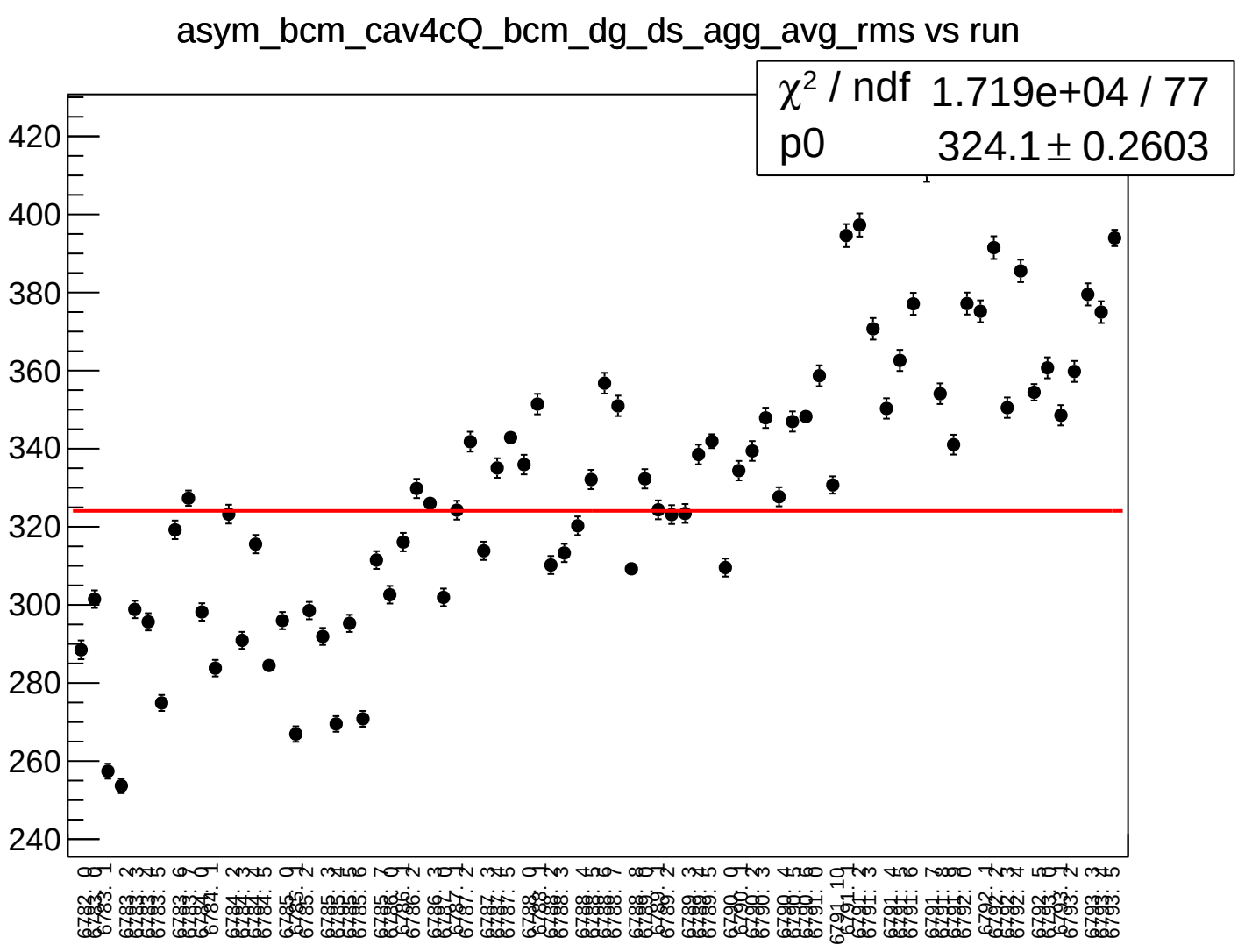

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.699e+04 / 77
p0 325.9 ± 0.2617
420
400
380
360
340
320
300
280
260
240

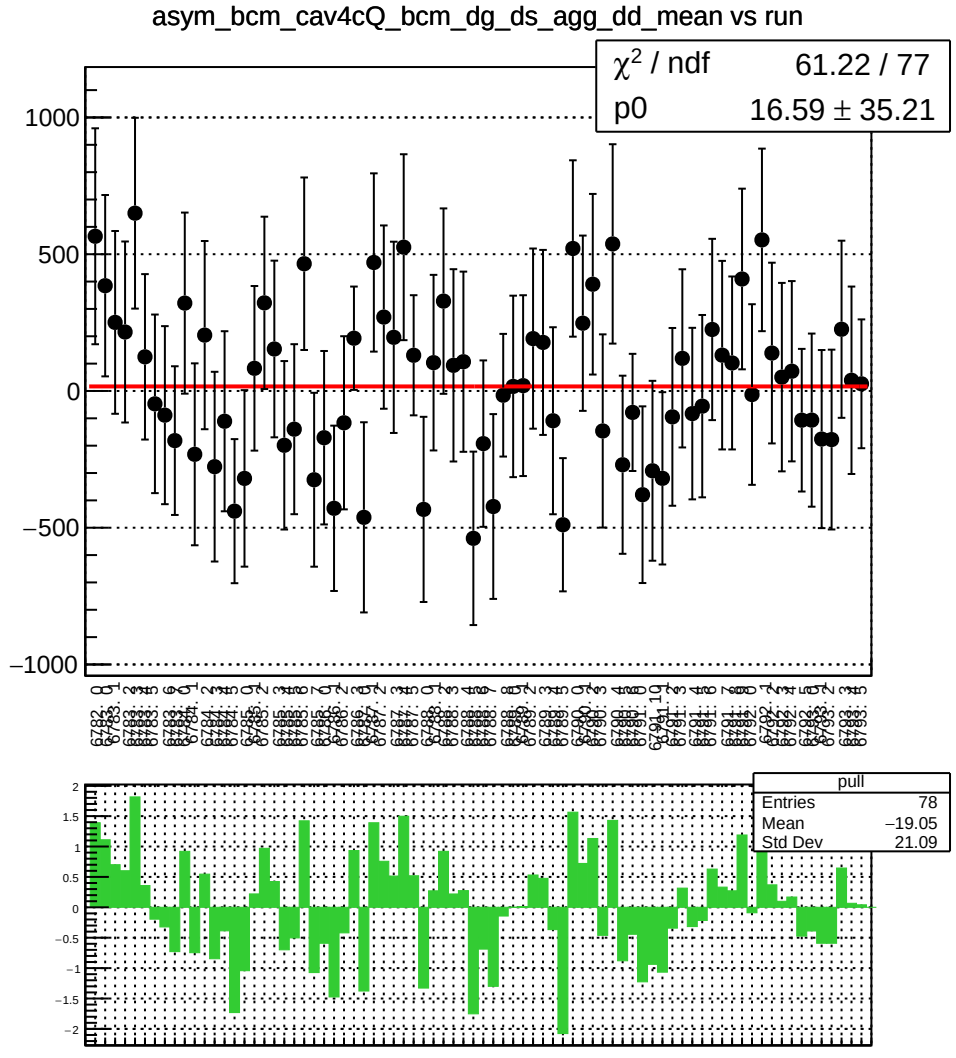

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 69.52 / 77
p0 −36.56 ± 38.5
1000
500
0
−500
−1000
pull
Entries 78
Mean 32.31
Std Dev 84.34
2
1
0
−1
−2

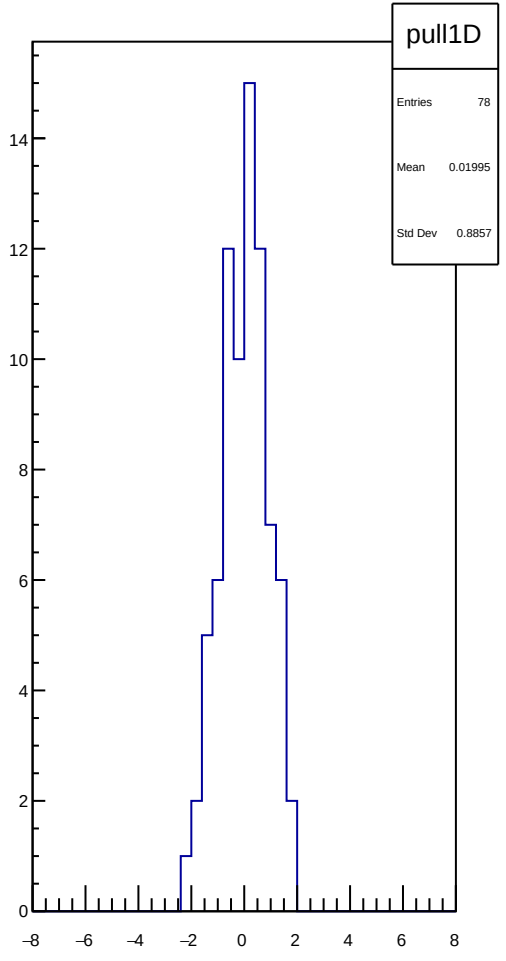

pull1D
Entries 78
Mean −0.005028
Std Dev 0.944
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

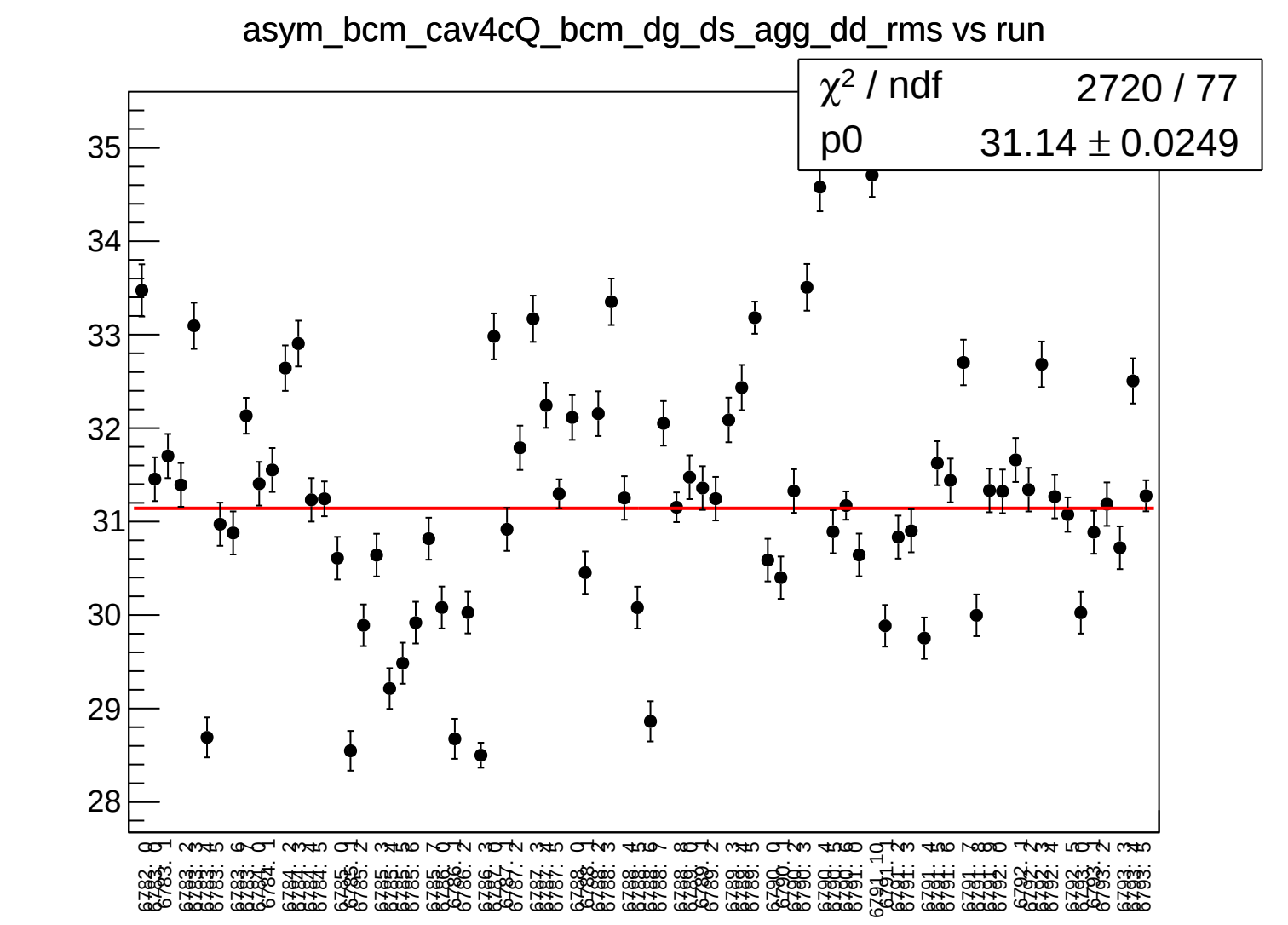

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1364 / 77
p0 34.07 ± 0.02722
37
36
35
34
33
32
31

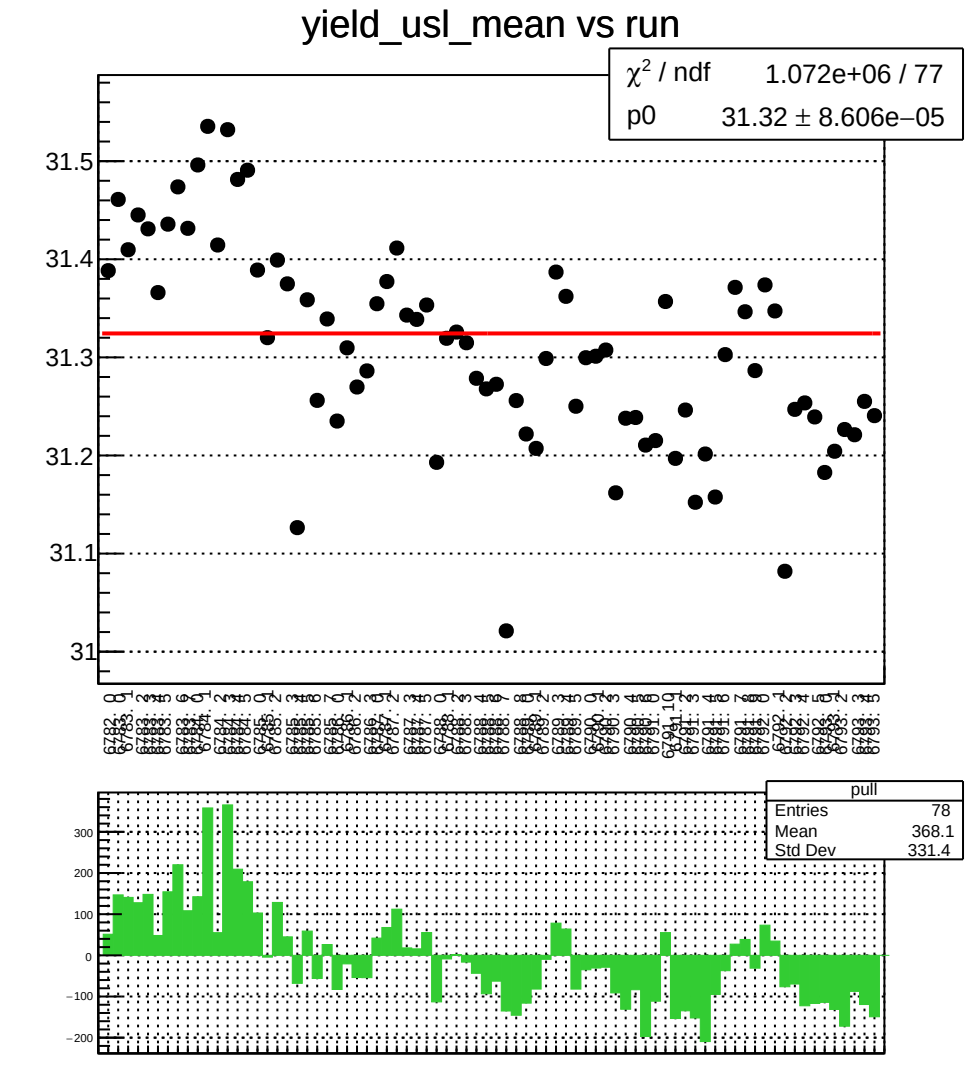

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 12.11 / 77
p0 367.3 ± 368.1
pull
Entries 78
Mean −7.284
Std Dev 25.74
pull1D
Entries 78
Mean −0.004827
Std Dev 0.394

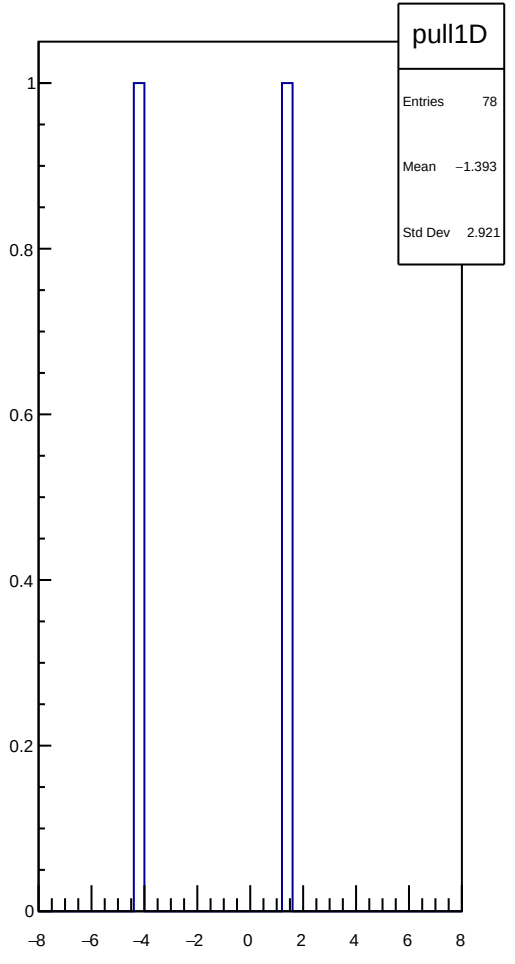

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.719e+04 / 77
p0 324.1 ± 0.2603
420
400
380
360
340
320
300
280
260
240

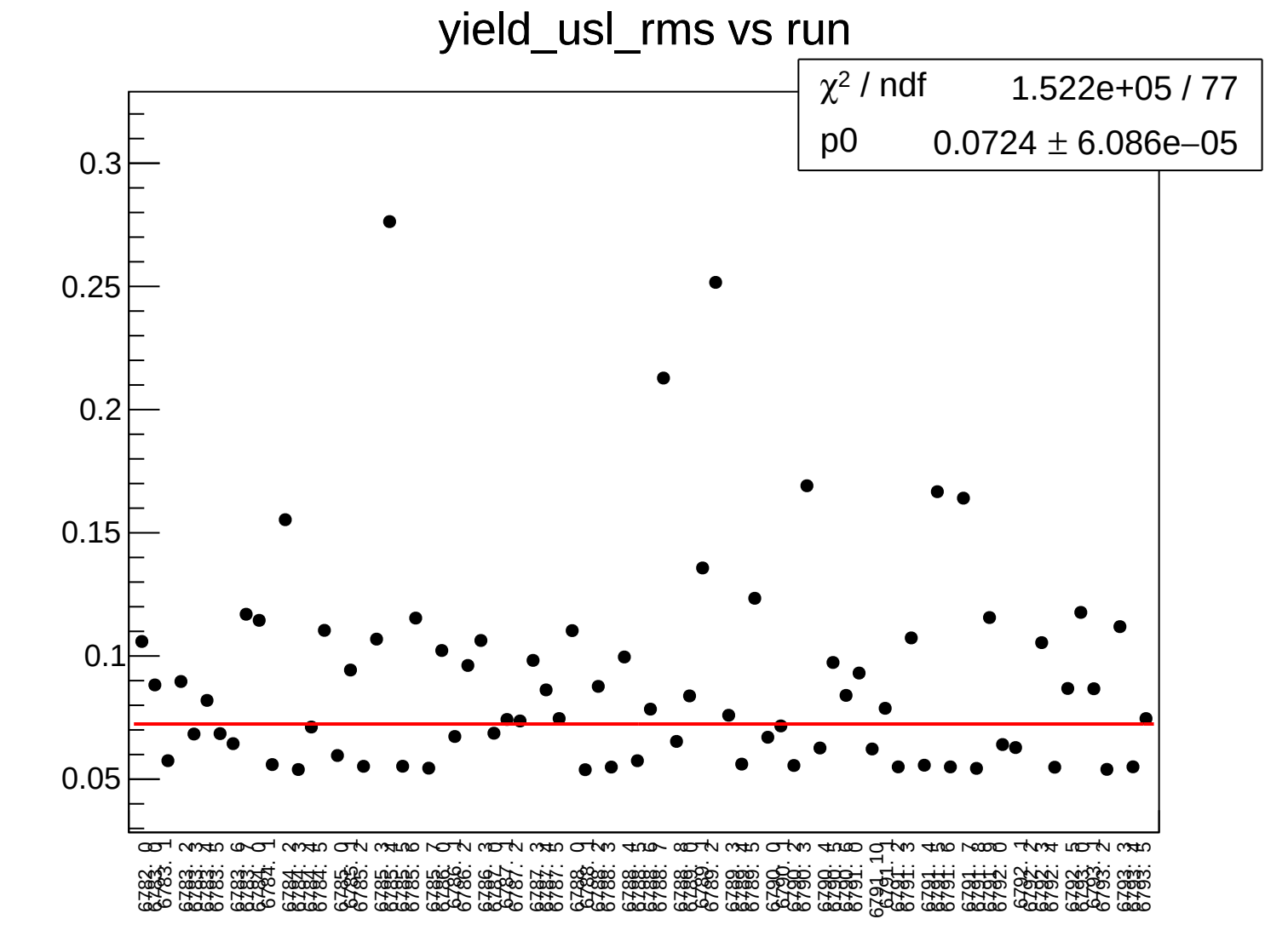

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 61.22 / 77
p0 16.59 ± 35.21
pull
Entries 78
Mean −19.05
Std Dev 21.09

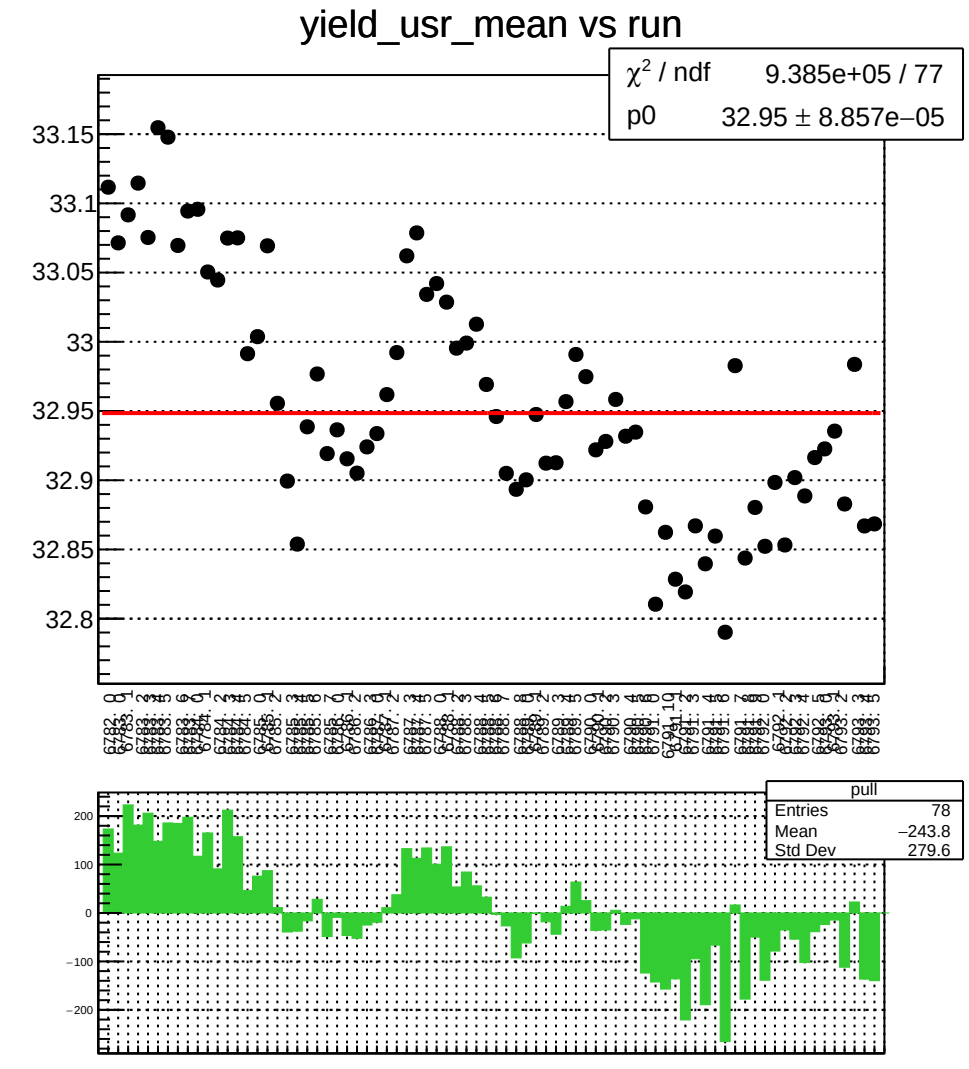

pull1D
Entries 78
Mean 0.01995
Std Dev 0.8857

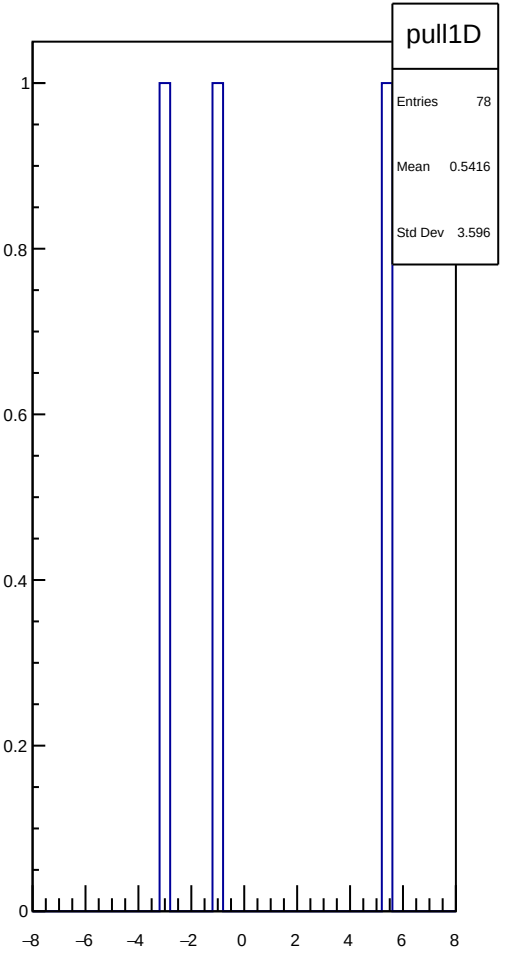

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2720 / 77
p0 31.14 ± 0.0249
35
34
33
32
31
30
29
28

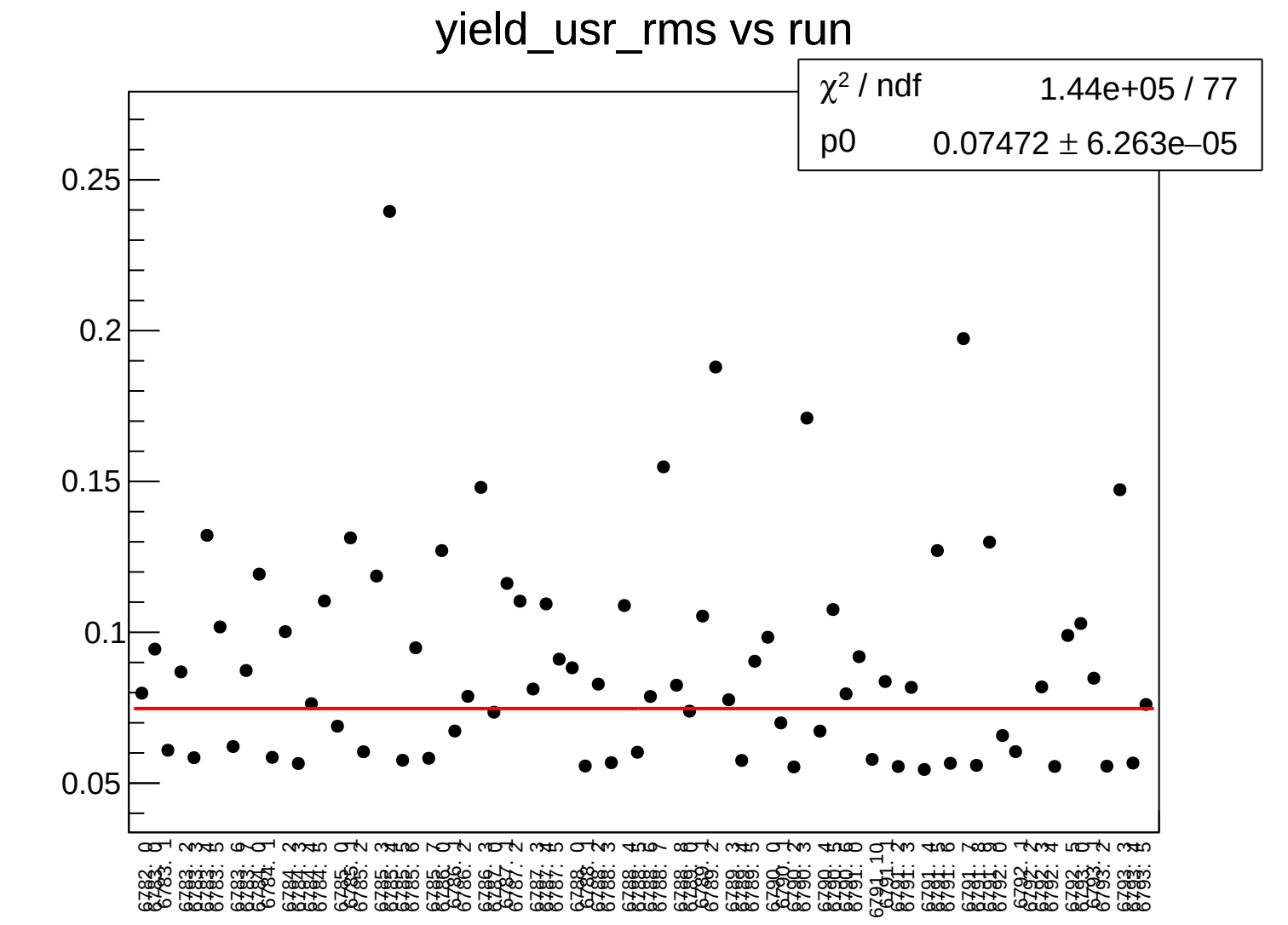

yield_usl_mean vs run
χ² / ndf 1.072e+06 / 77
p0 31.32 ± 8.606e−05
31.5
31.4
31.3
31.2
31.1
31
pull
Entries 78
Mean 368.1
Std Dev 331.4
300
200
100
0
−100
−200

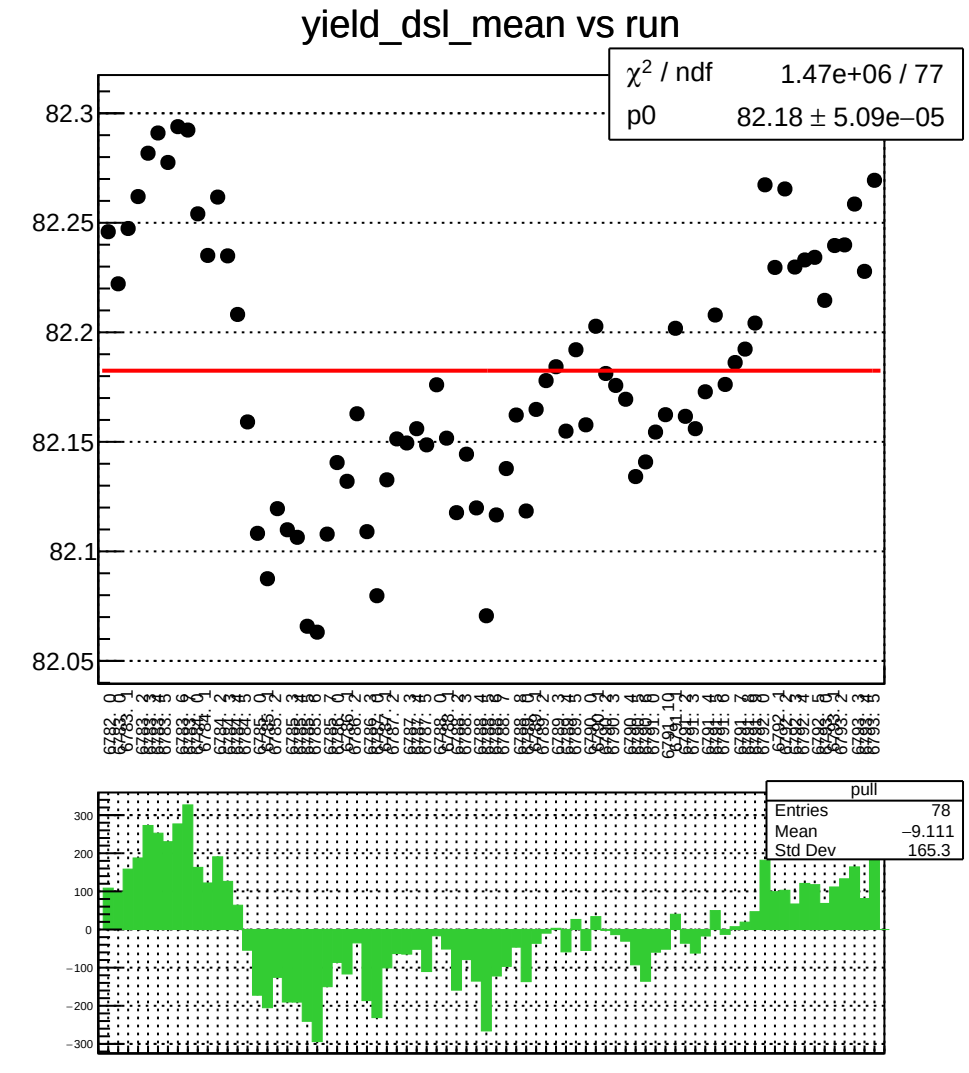

pull1D
Entries 78
Mean −1.393
Std Dev 2.921
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

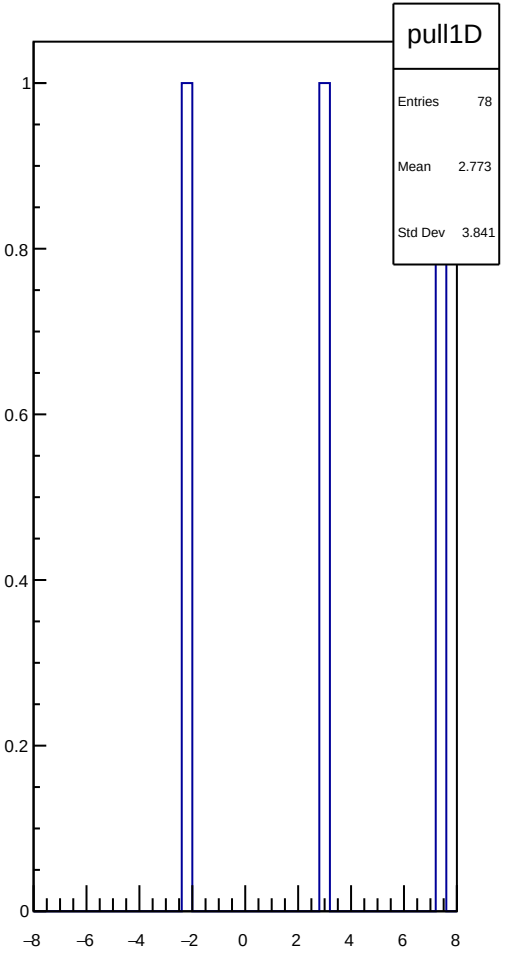

yield_usl_rms vs run
χ² / ndf 1.522e+05 / 77
p0 0.0724 ± 6.086e−05
0.3
0.25
0.2
0.15
0.1
0.05

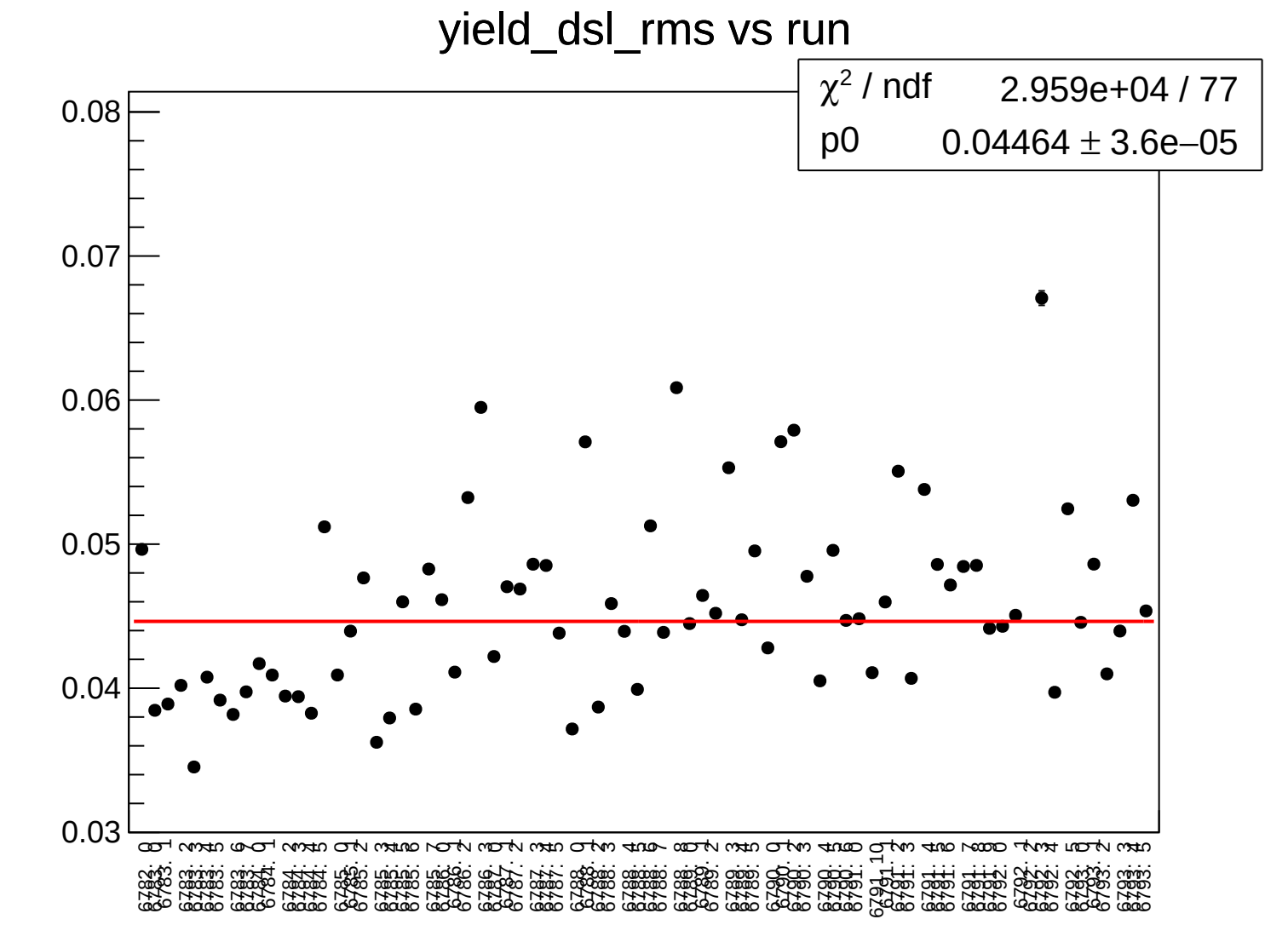

yield_usr_mean vs run
χ² / ndf 9.385e+05 / 77
p0 32.95 ± 8.857e−05
33.15
33.1
33.05
33
32.95
32.9
32.85
32.8
pull
Entries 78
Mean −243.8
Std Dev 279.6
200
100
0
−100
−200

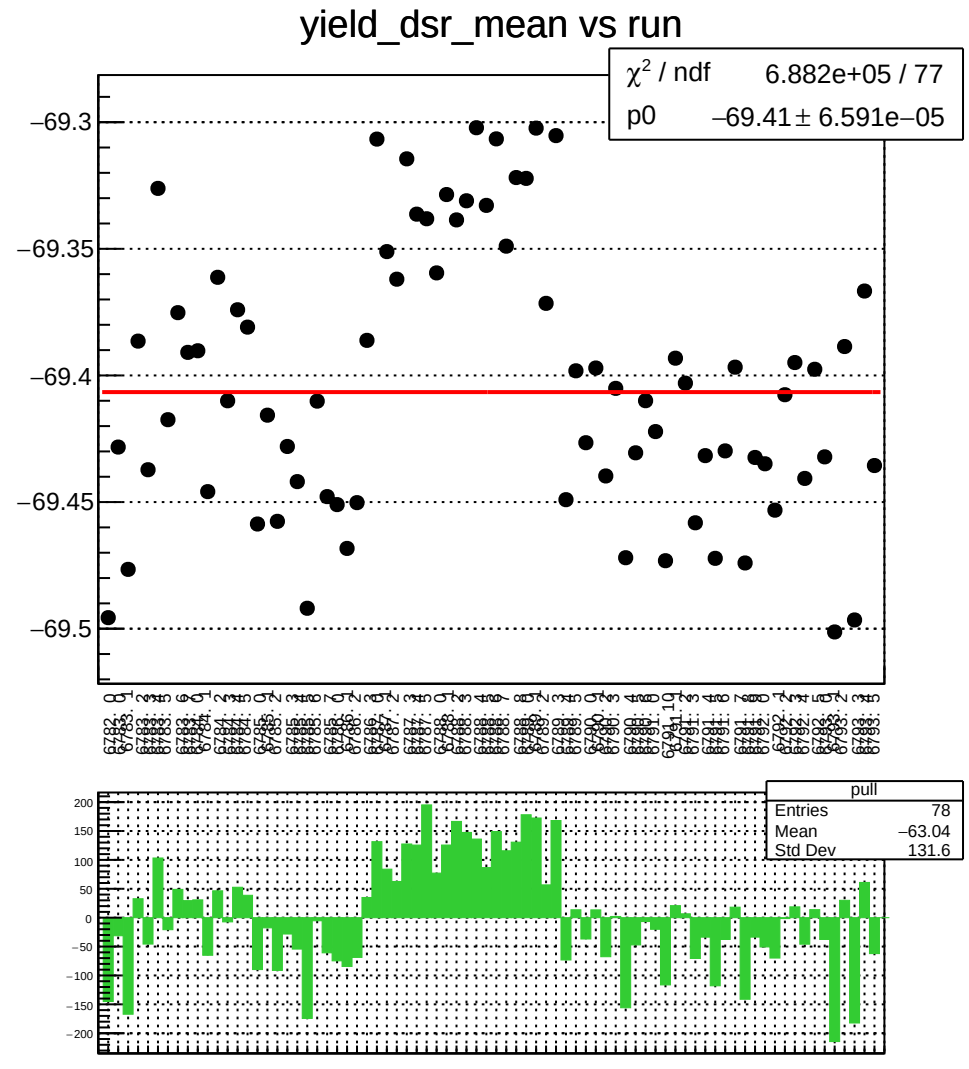

pull1D
Entries 78
Mean 0.5416
Std Dev 3.596
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

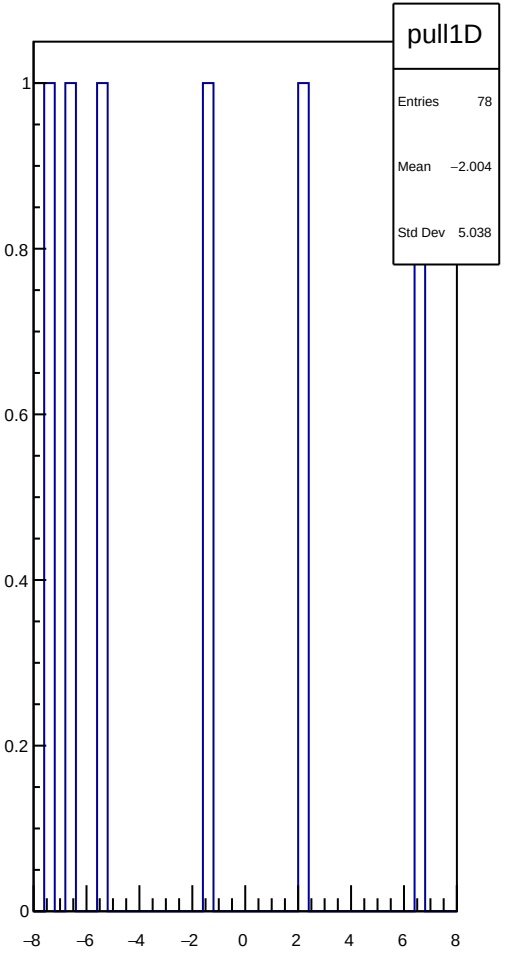

yield_usr_rms vs run
χ² / ndf 1.44e+05 / 77
p0 0.07472 ± 6.263e−05
0.25
0.2
0.15
0.1
0.05

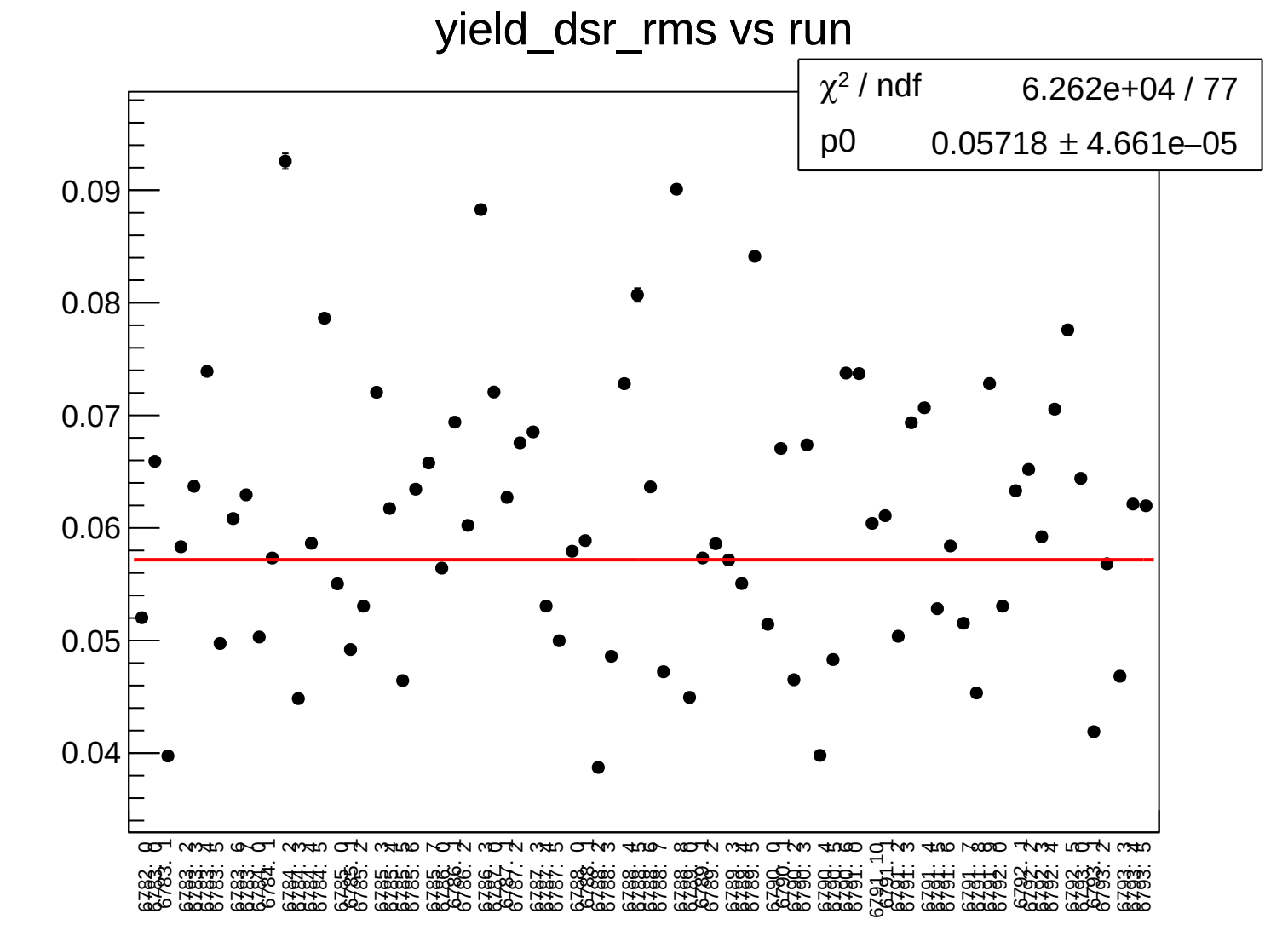

yield_dsl_mean vs run
χ² / ndf 1.47e+06 / 77
p0 82.18 ± 5.09e−05
82.3
82.25
82.2
82.15
82.1
82.05
pull
Entries 78
Mean −9.111
Std Dev 165.3
300
200
100
0
−100
−200
−300

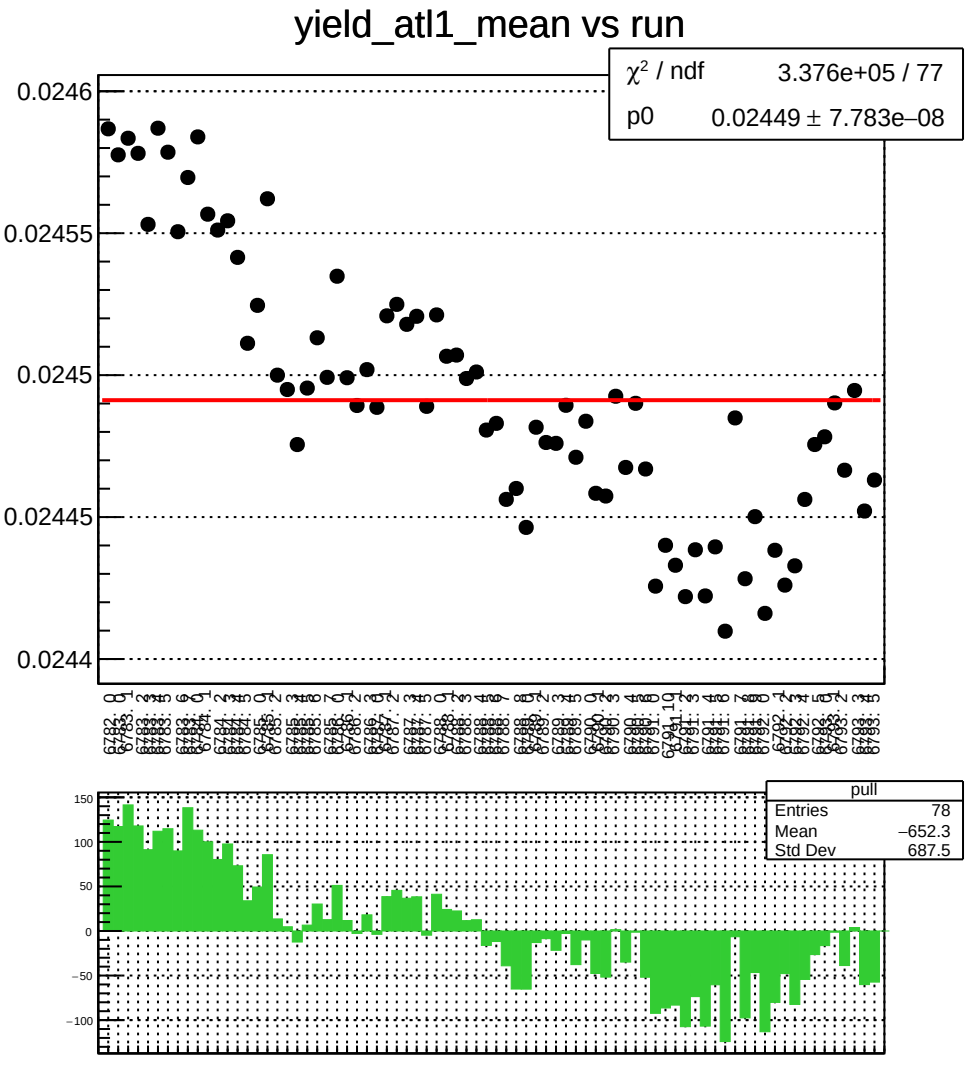

pull1D
Entries 78
Mean 2.773
Std Dev 3.841
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

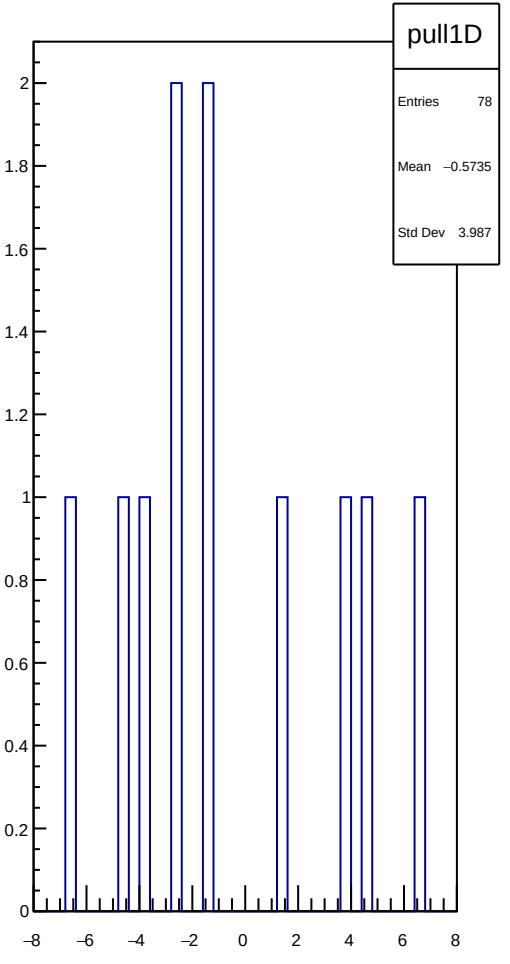

yield_dsl_rms vs run
χ^2 / ndf 2.959e+04 / 77
p0 0.04464 ± 3.6e−05
0.08
0.07
0.06
0.05
0.04
0.03

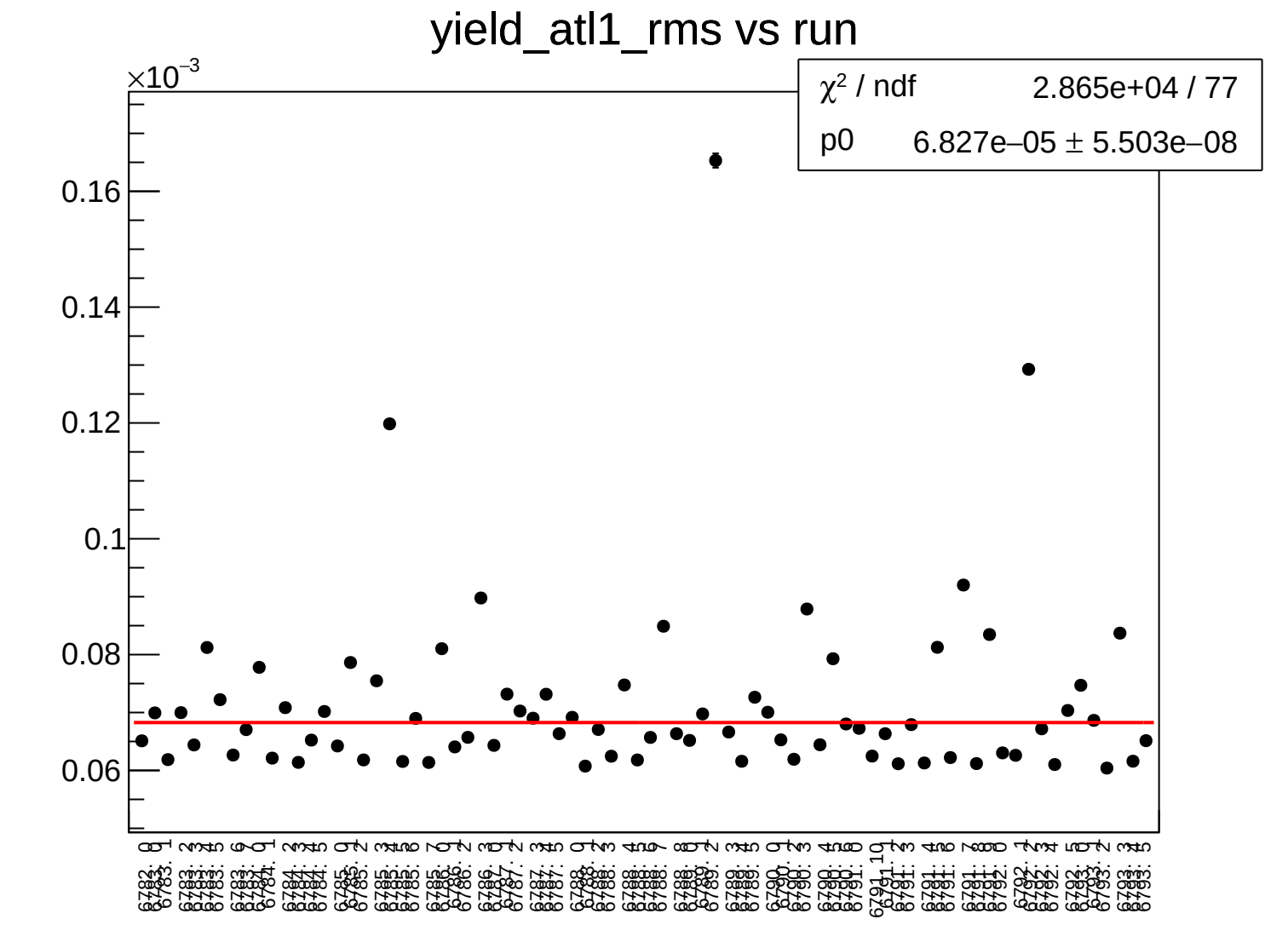

yield_dsr_mean vs run
χ² / ndf 6.882e+05 / 77
p0 −69.41 ± 6.591e−05
−69.3
−69.35
−69.4
−69.45
−69.5
pull
Entries 78
Mean −63.04
Std Dev 131.6
200
150
100
50
0
−50
−100
−150
−200

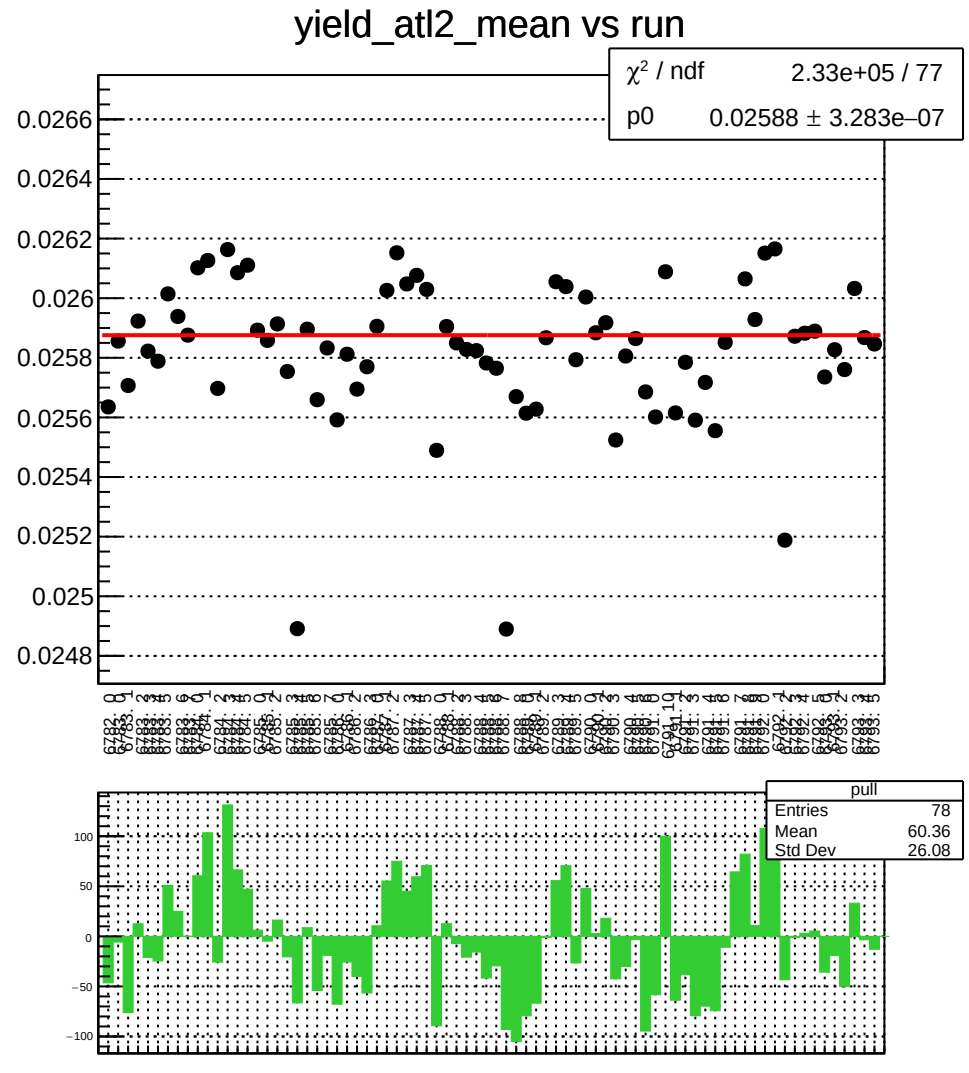

pull1D
Entries 78
Mean −2.004
Std Dev 5.038
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

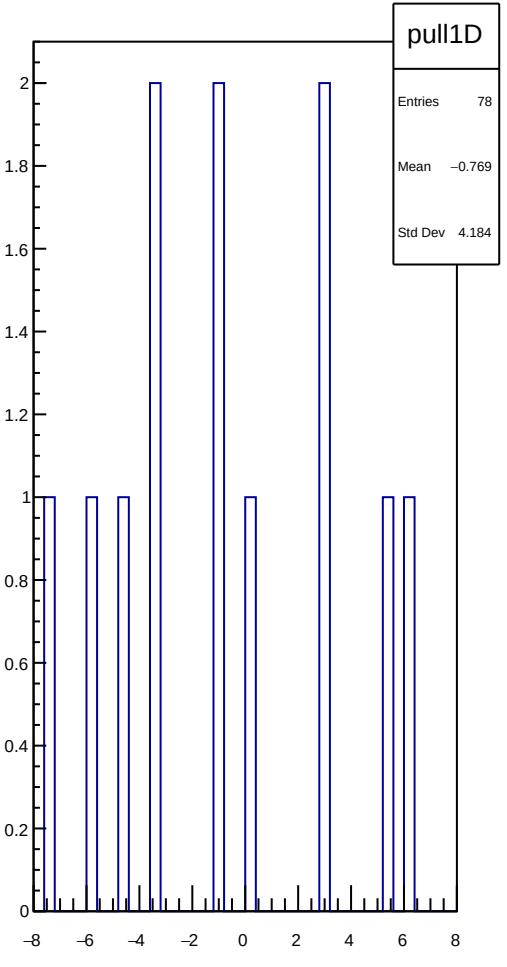

yield_dsr_rms vs run
χ² / ndf 6.262e+04 / 77
p0 0.05718 ± 4.661e−05
0.09
0.08
0.07
0.06
0.05
0.04

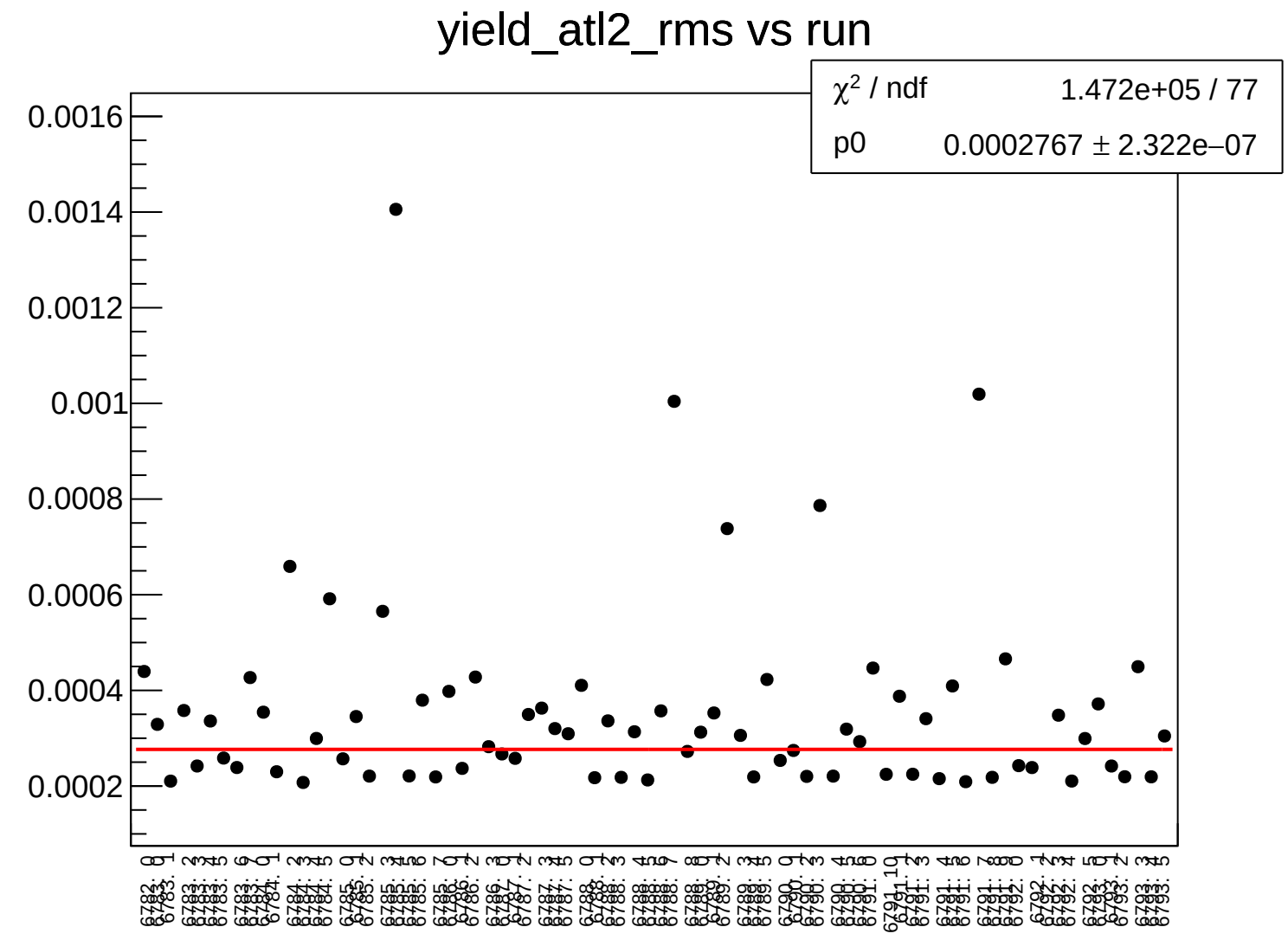

yield_atl1_mean vs run
χ² / ndf 3.376e+05 / 77
p0 0.02449 ± 7.783e−08
0.0246
0.02455
0.0245
0.02445
0.0244
pull
Entries 78
Mean −652.3
Std Dev 687.5
150
100
50
0
−50
−100

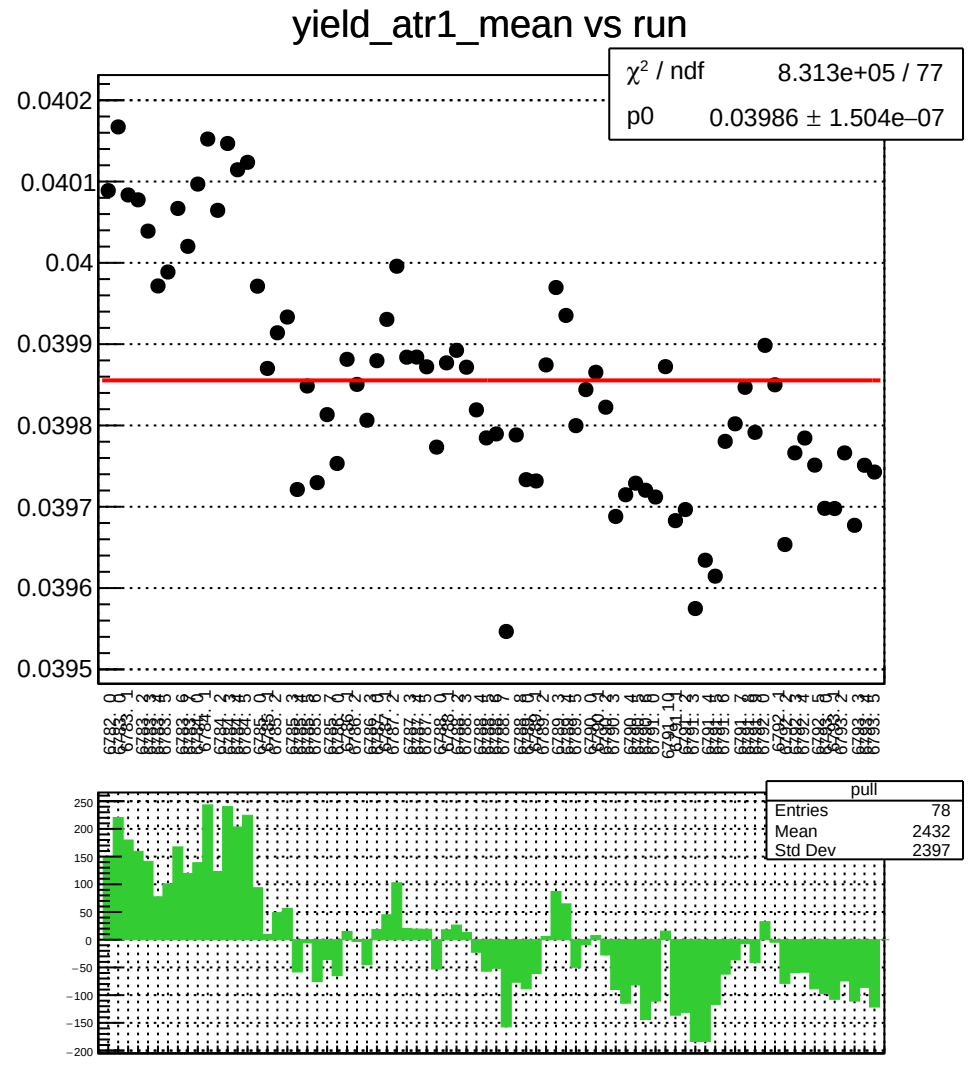

pull1D
Entries 78
Mean −0.5735
Std Dev 3.987
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

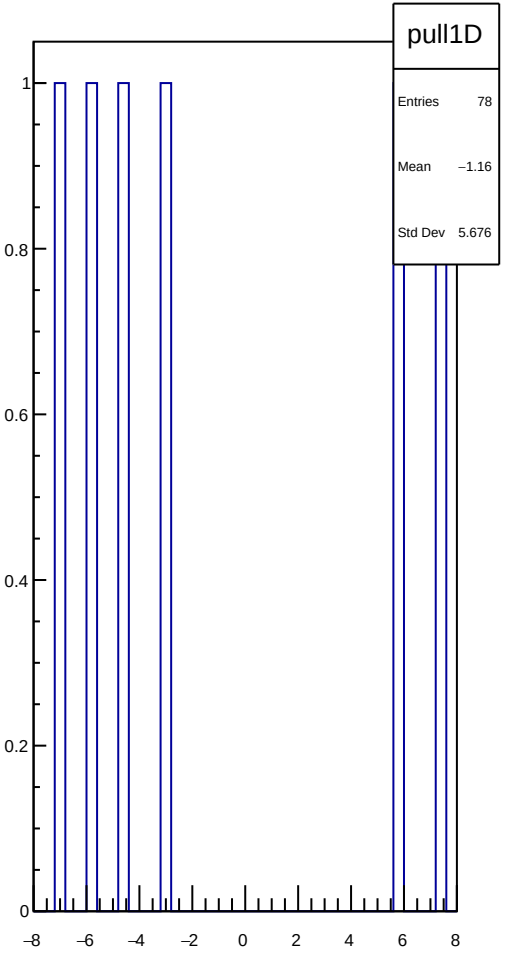

yield_atl1_rms vs run
×10⁻³
χ² / ndf 2.865e+04 / 77
p0 6.827e−05 ± 5.503e−08
0.16
0.14
0.12
0.1
0.08
0.06

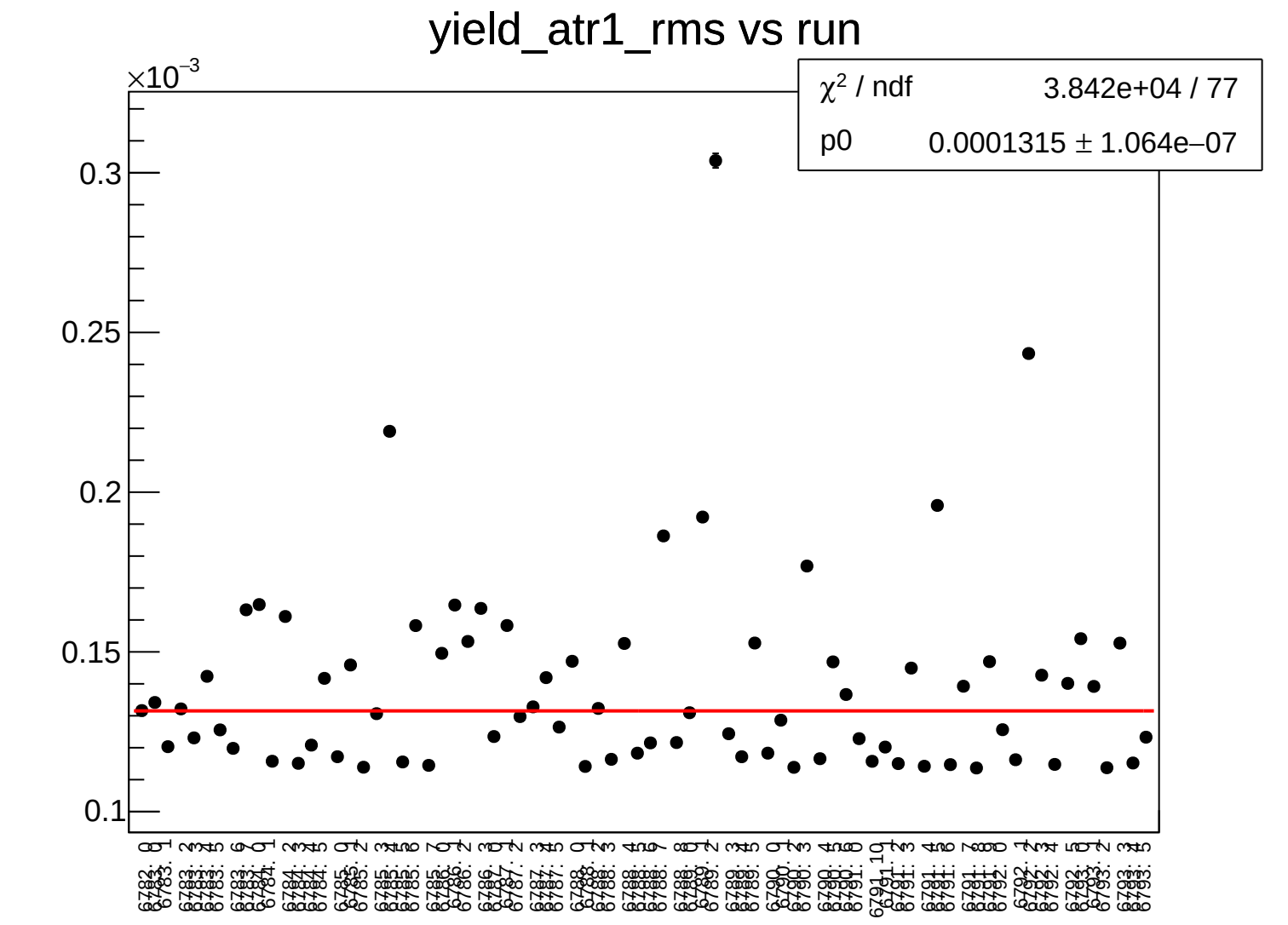

yield_atl2_mean vs run
χ² / ndf 2.33e+05 / 77
p0 0.02588 ± 3.283e−07
0.0266
0.0264
0.0262
0.026
0.0258
0.0256
0.0254
0.0252
0.025
0.0248
pull
Entries 78
Mean 60.36
Std Dev 26.08
100
50
0
−50
−100

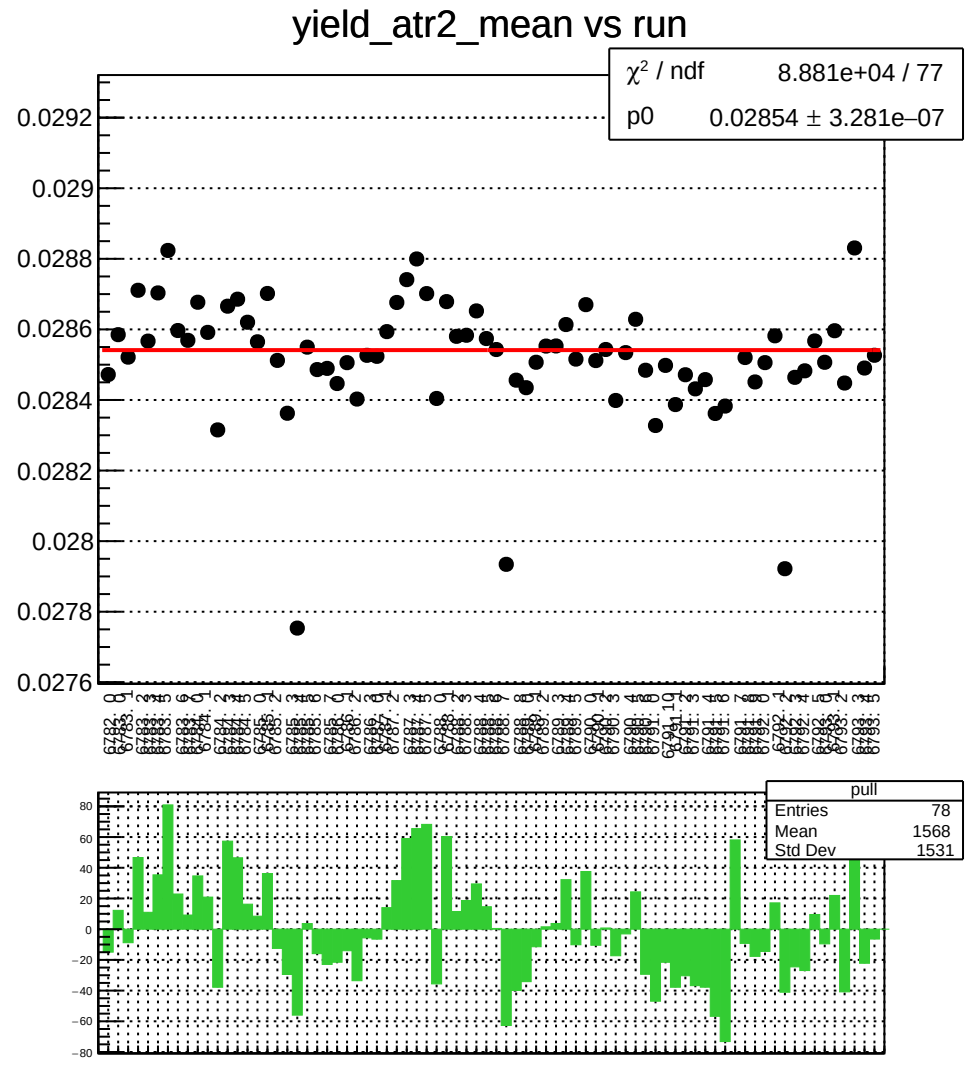

pull1D
Entries 78
Mean −0.769
Std Dev 4.184
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

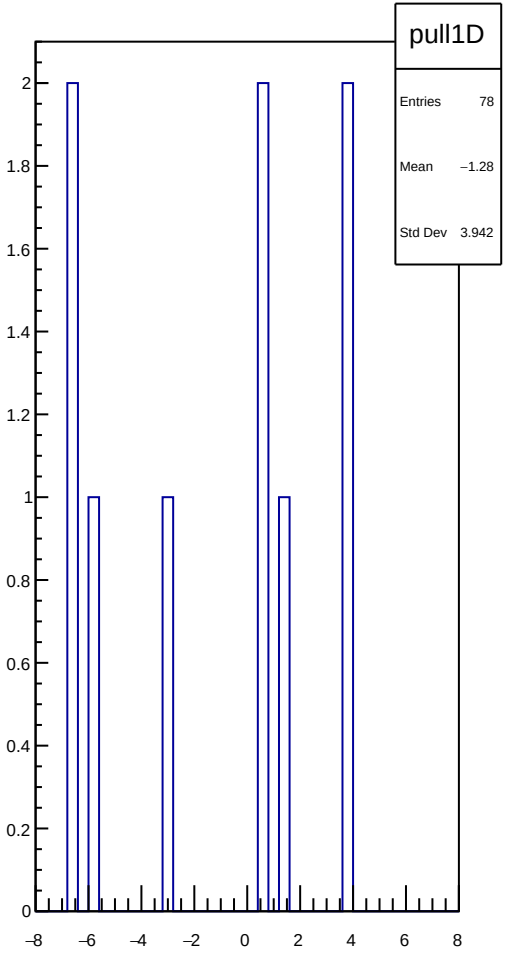

yield_atl2_rms vs run
χ² / ndf 1.472e+05 / 77
p0 0.0002767 ± 2.322e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

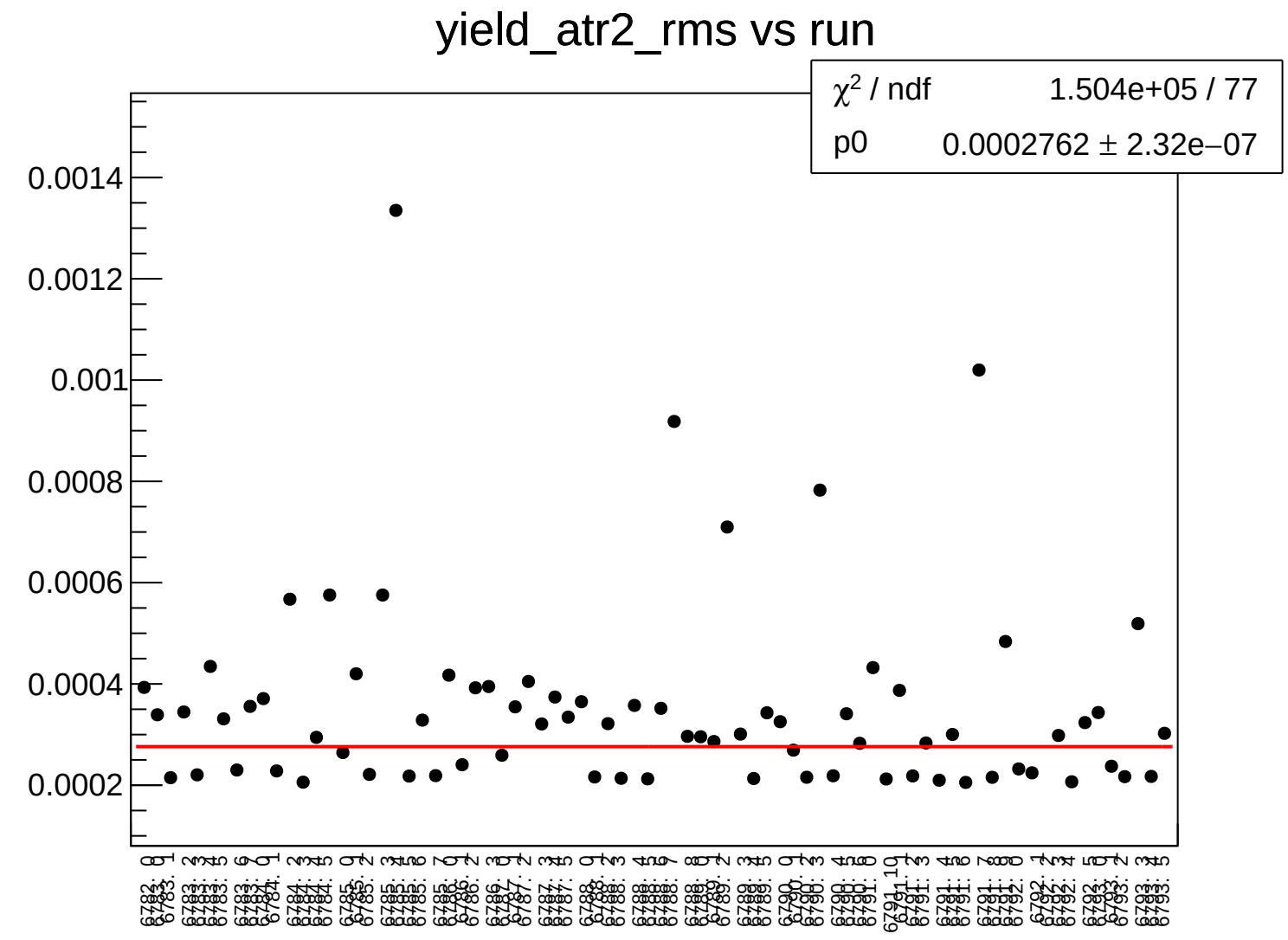

yield_atr1_mean vs run
χ² / ndf 8.313e+05 / 77
p0 0.03986 ± 1.504e−07
0.0402
0.0401
0.04
0.0399
0.0398
0.0397
0.0396
0.0395
pull
Entries 78
Mean 2432
Std Dev 2397
250
200
150
100
50
0
−50
−100
−150
−200

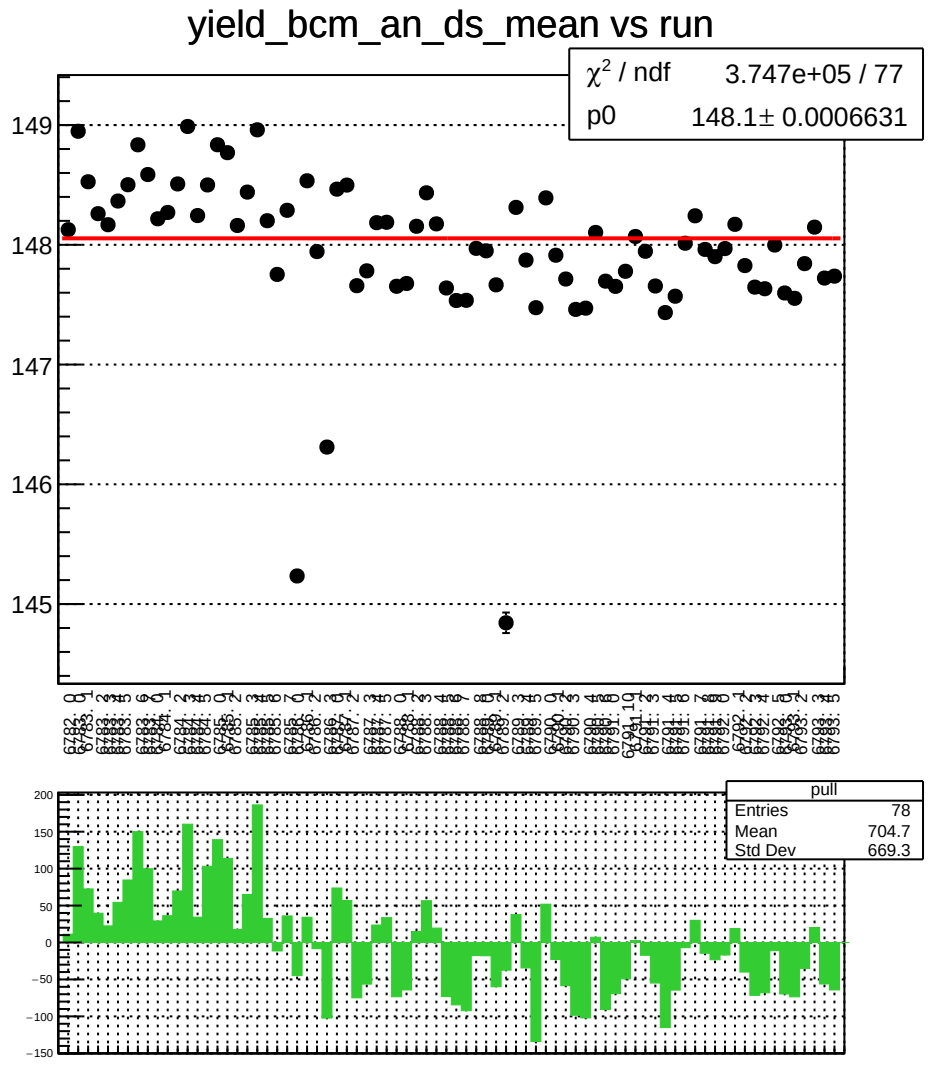

pull1D
Entries 78
Mean −1.16
Std Dev 5.676
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

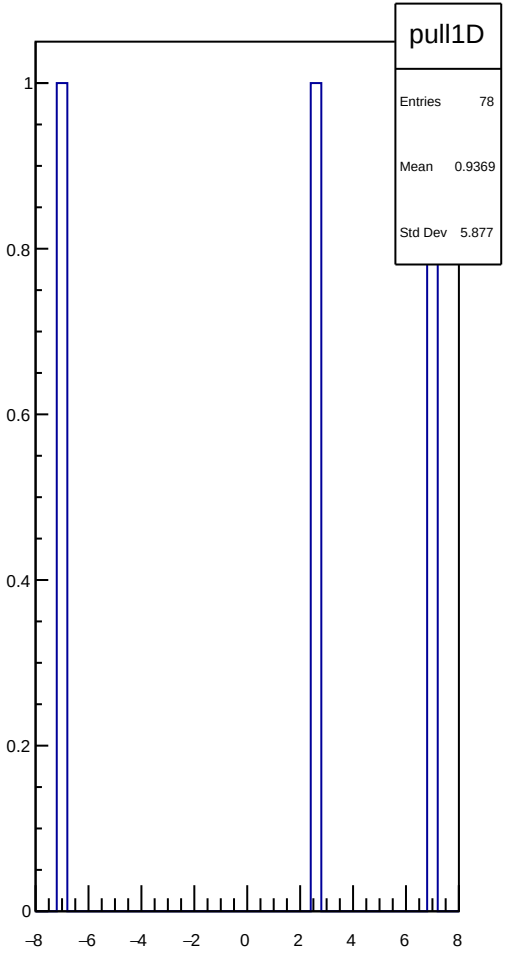

yield_atr1_rms vs run
×10⁻³
χ² / ndf 3.842e+04 / 77
p0 0.0001315 ± 1.064e−07
0.3
0.25
0.2
0.15
0.1

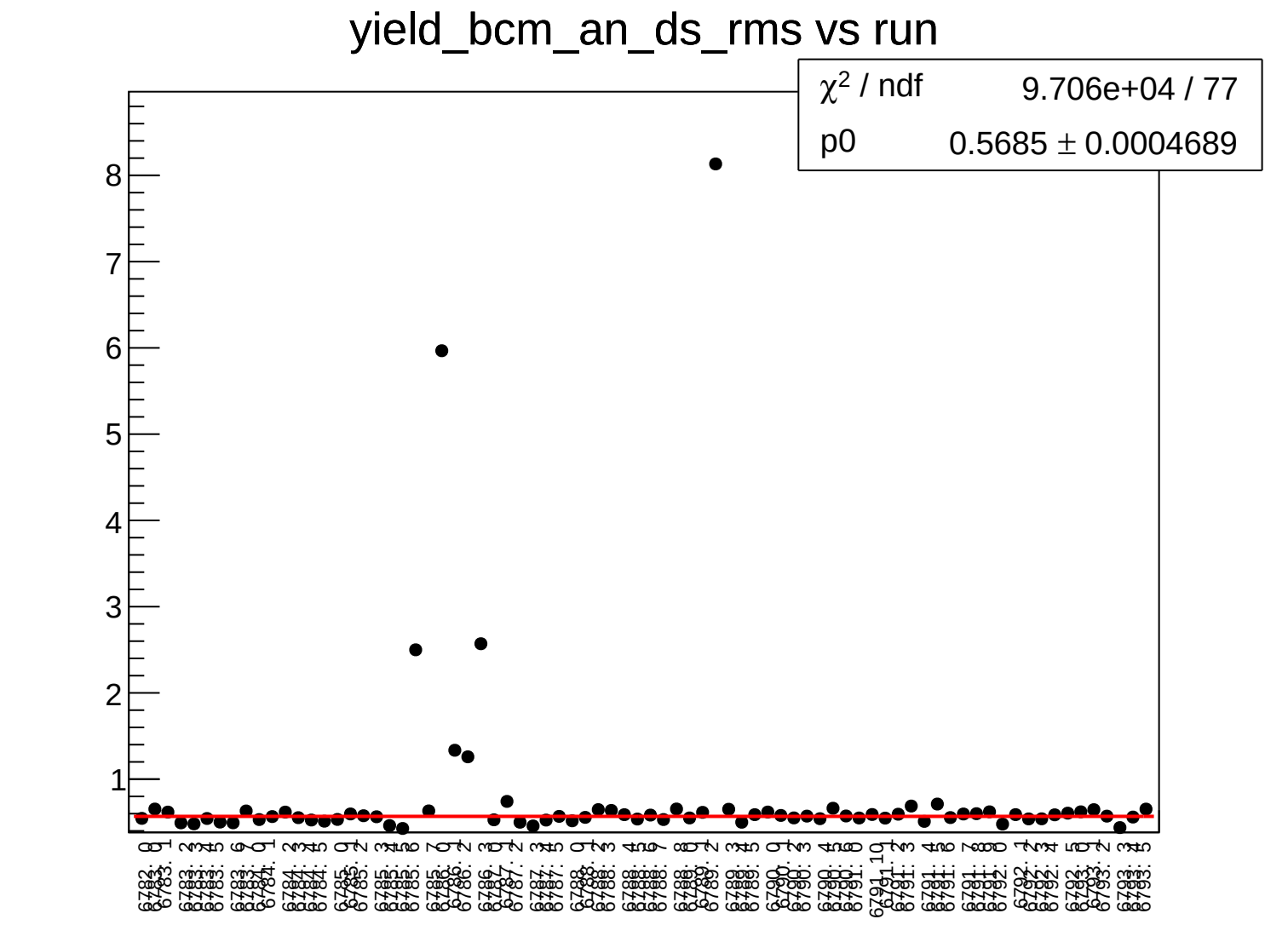

yield_atr2_mean vs run
χ² / ndf 8.881e+04 / 77
p0 0.02854 ± 3.281e−07
0.0292
0.029
0.0288
0.0286
0.0284
0.0282
0.028
0.0278
0.0276
pull
Entries 78
Mean 1568
Std Dev 1531
80
60
40
20
0
−20
−40
−60
−80

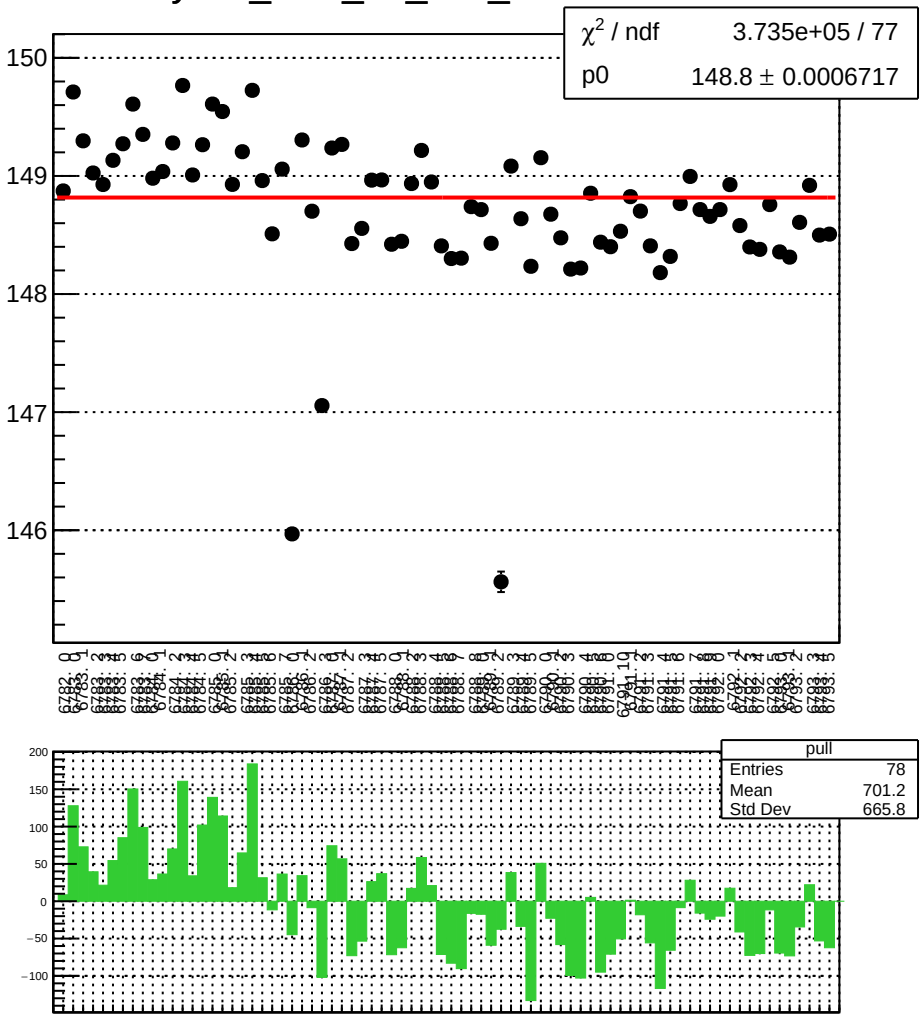

pull1D
Entries 78
Mean −1.28
Std Dev 3.942
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

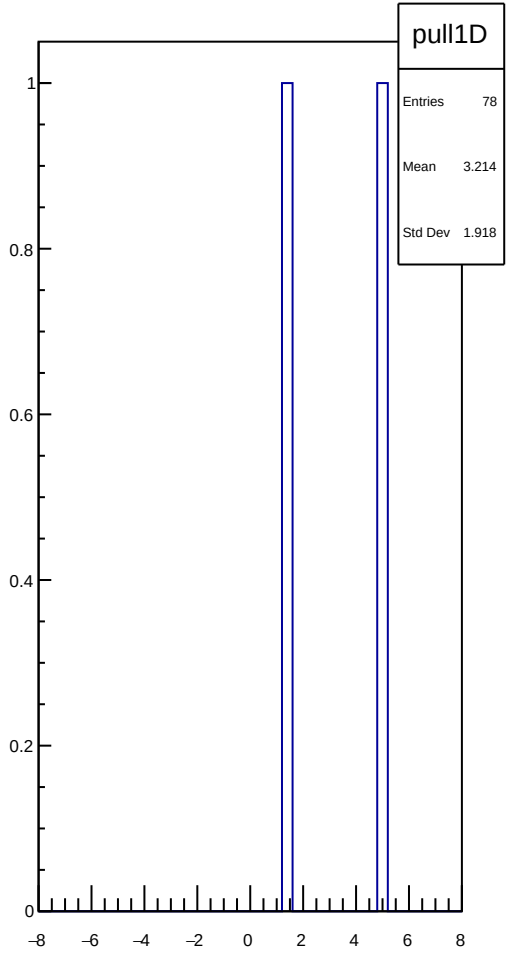

yield_atr2_rms vs run
χ² / ndf 1.504e+05 / 77
p0 0.0002762 ± 2.32e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

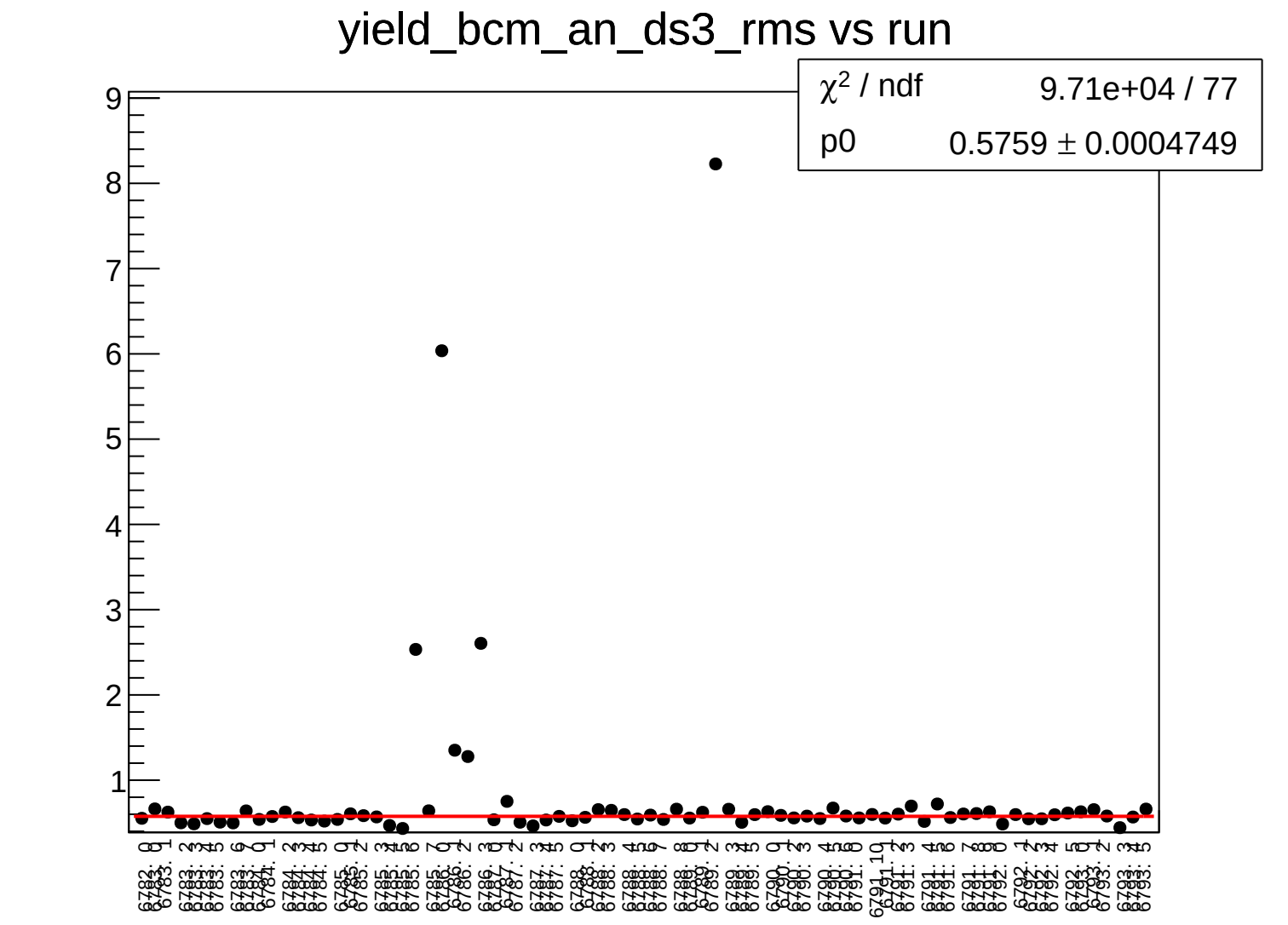

yield_bcm_an_ds_mean vs run
χ² / ndf 3.747e+05 / 77
p0 148.1± 0.0006631
149
148
147
146
145
pull
Entries 78
Mean 704.7
Std Dev 669.3
200
150
100
50
0
−50
−100
−150

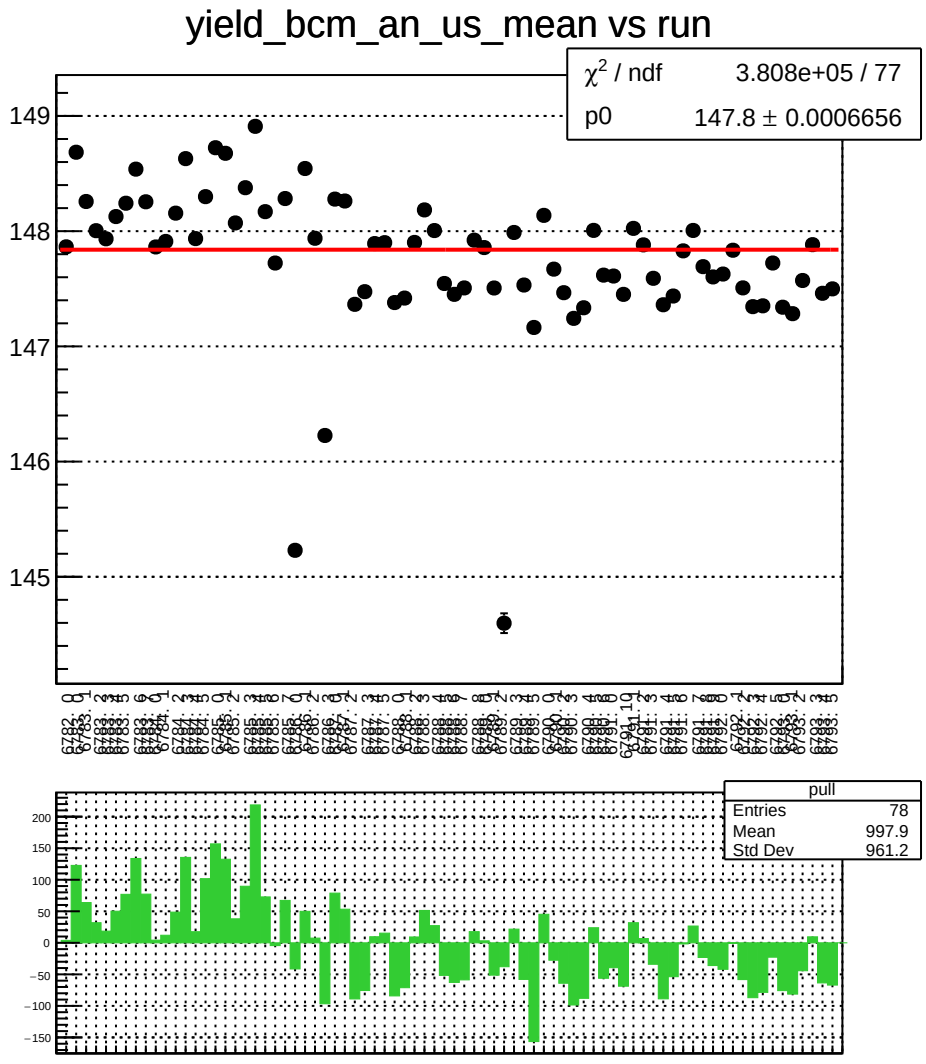

pull1D
Entries 78
Mean 0.9369
Std Dev 5.877
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

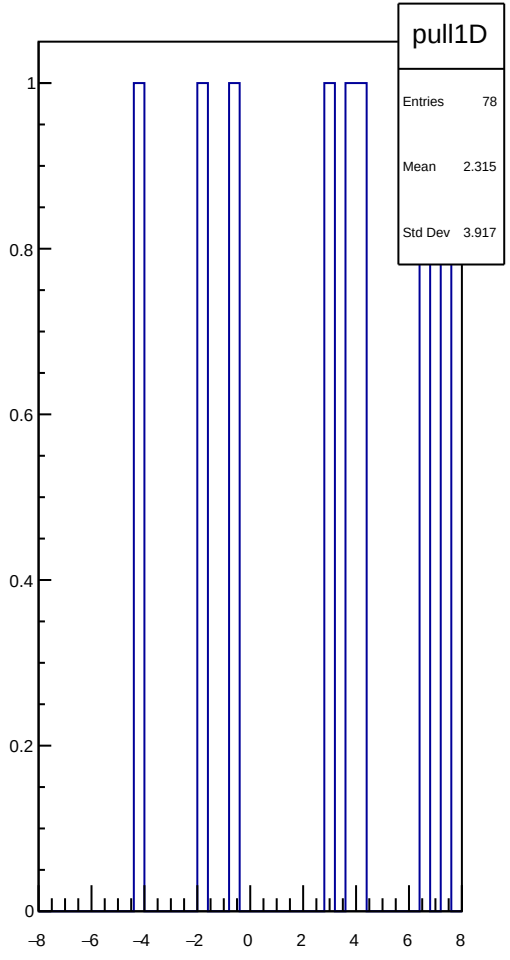

yield_bcm_an_ds_rms vs run
χ^2 / ndf 9.706e+04 / 77
p0 0.5685 ± 0.0004689
8
7
6
5
4
3
2
1

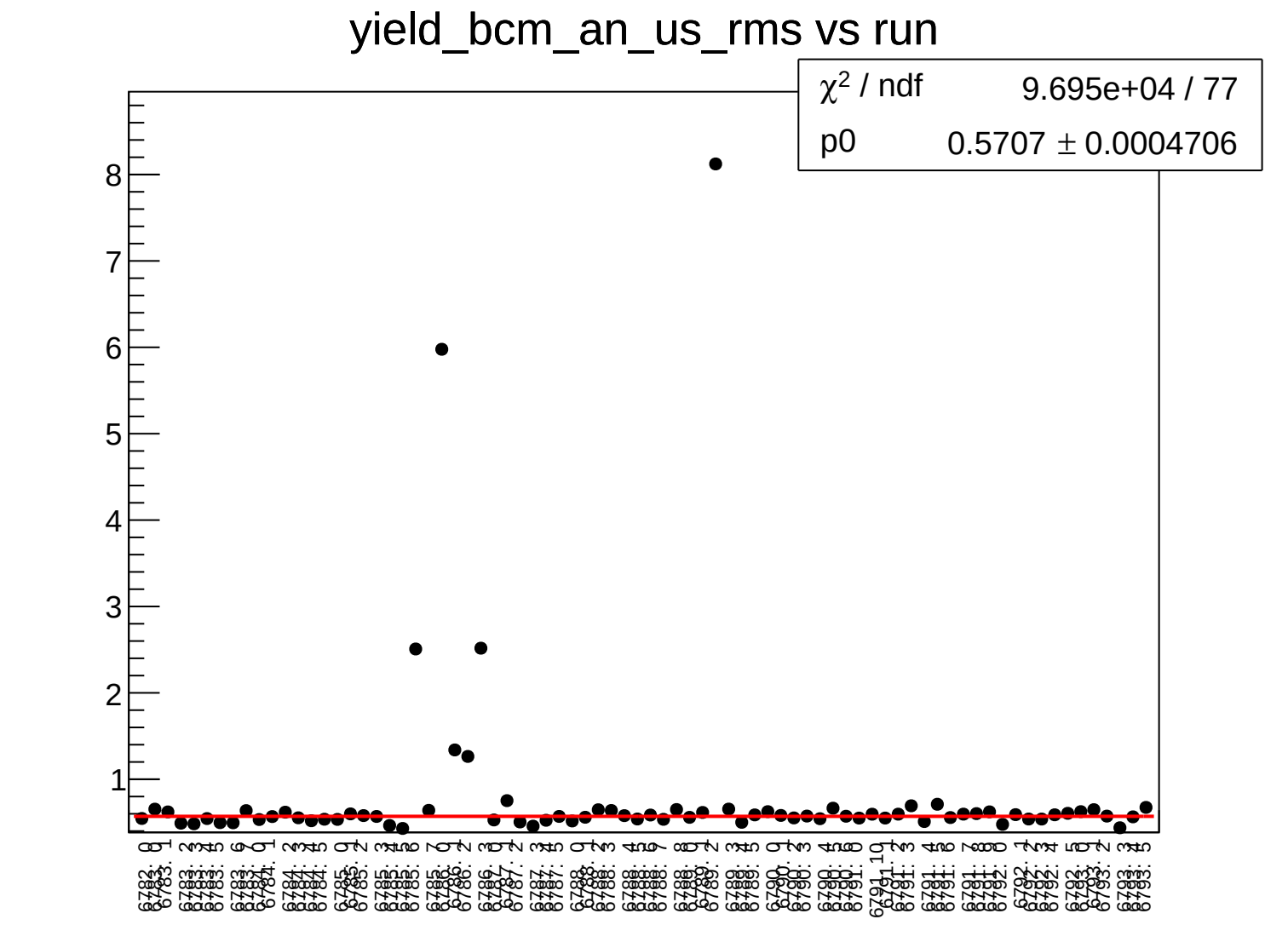

yield_bcm_an_ds3_mean vs run
χ² / ndf 3.735e+05 / 77
p0 148.8 ± 0.0006717
150
149
148
147
146
pull
Entries 78
Mean 701.2
Std Dev 665.8
200
150
100
50
0
−50
−100

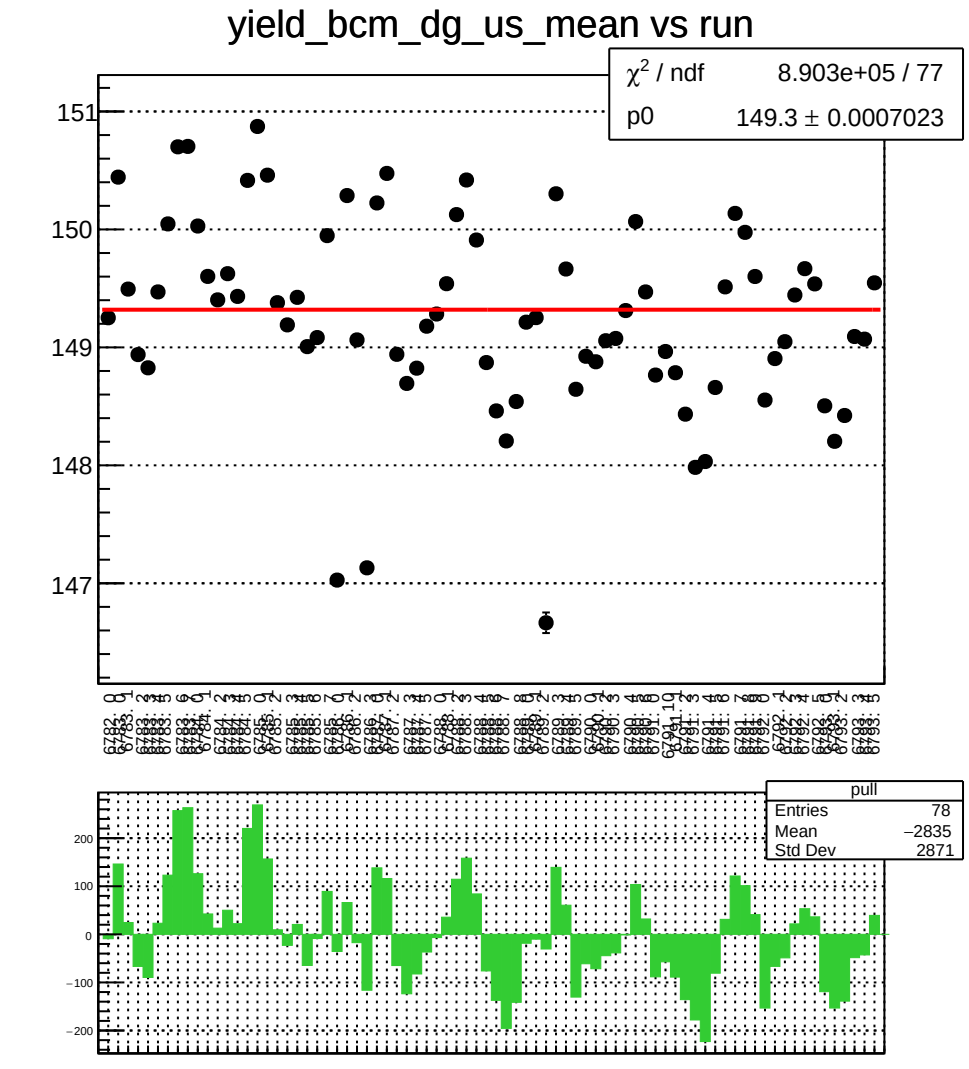

pull1D
Entries 78
Mean 3.214
Std Dev 1.918
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

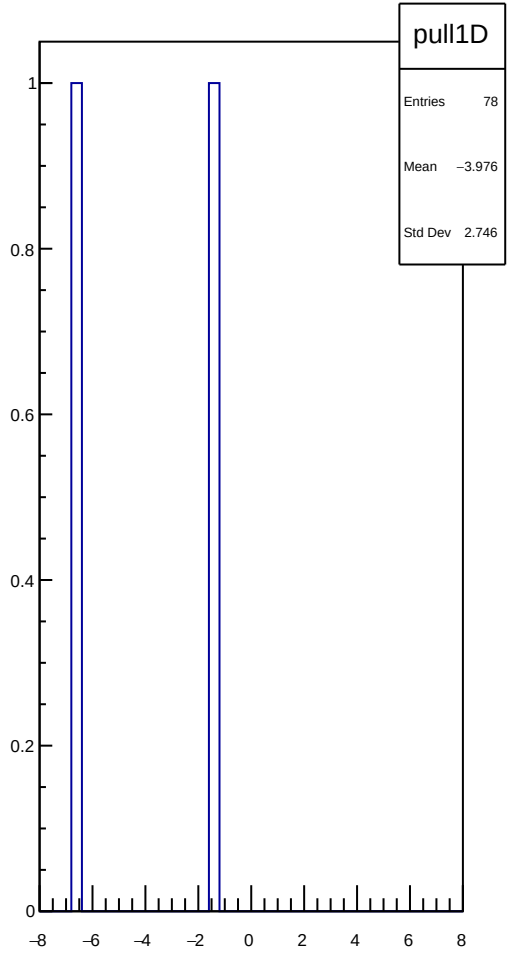

yield_bcm_an_ds3_rms vs run
χ^2 / ndf 9.71e+04 / 77
p0 0.5759 ± 0.0004749
9
8
7
6
5
4
3
2
1

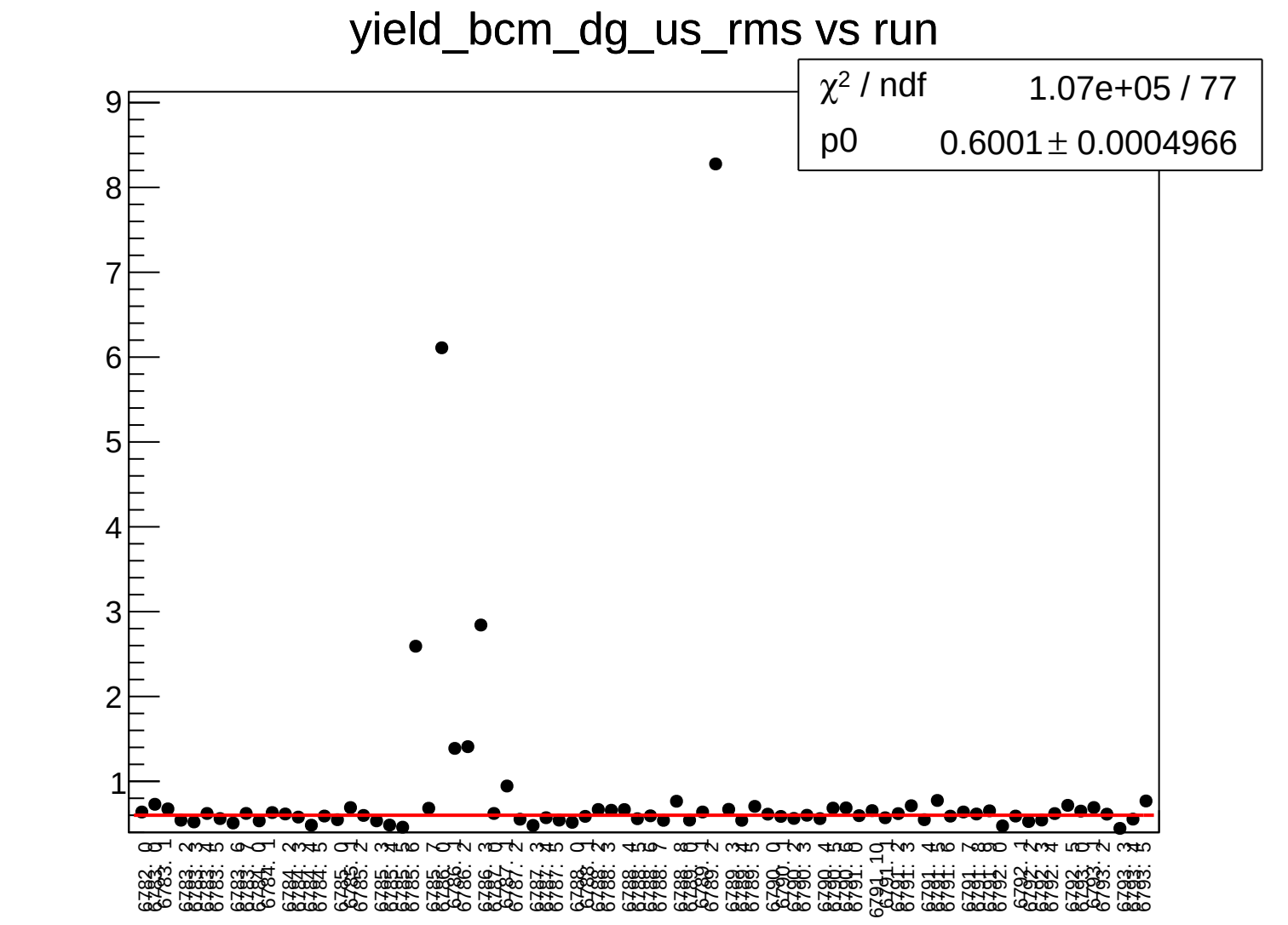

yield_bcm_an_us_mean vs run
χ² / ndf 3.808e+05 / 77
p0 147.8 ± 0.0006656
149
148
147
146
145
pull
Entries 78
Mean 997.9
Std Dev 961.2
200
150
100
50
0
−50
−100
−150

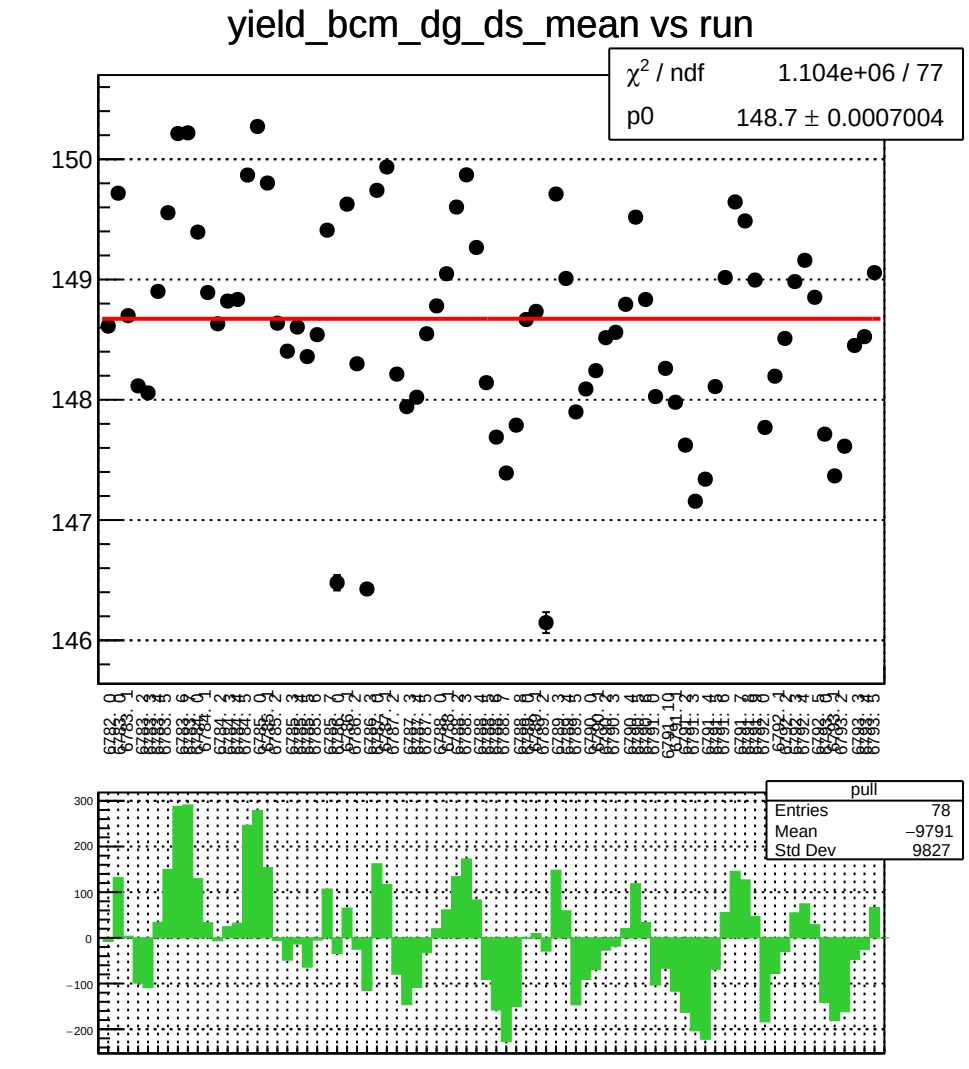

pull1D
Entries 78
Mean 2.315
Std Dev 3.917
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

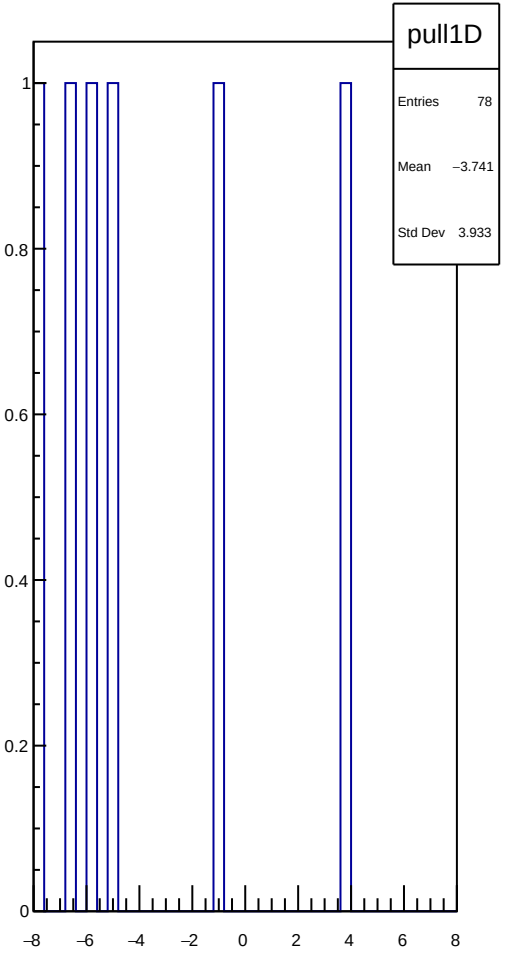

yield_bcm_an_us_rms vs run
χ² / ndf 9.695e+04 / 77
p0 0.5707 ± 0.0004706
8
7
6
5
4
3
2
1

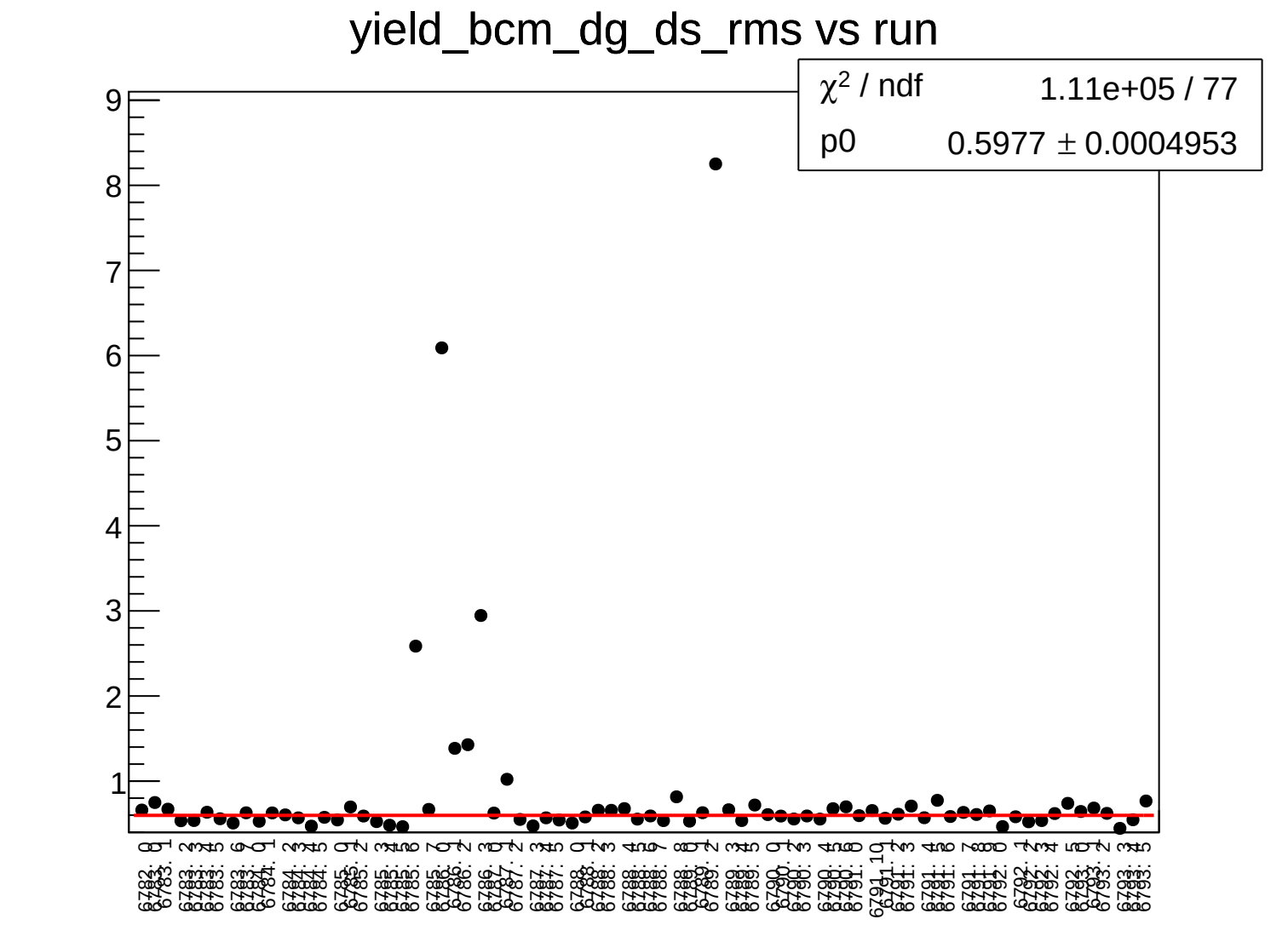

yield_bcm_dg_us_mean vs run
χ² / ndf 8.903e+05 / 77
p0 149.3 ± 0.0007023
151
150
149
148
147
pull
Entries 78
Mean −2835
Std Dev 2871
200
100
0
−100
−200

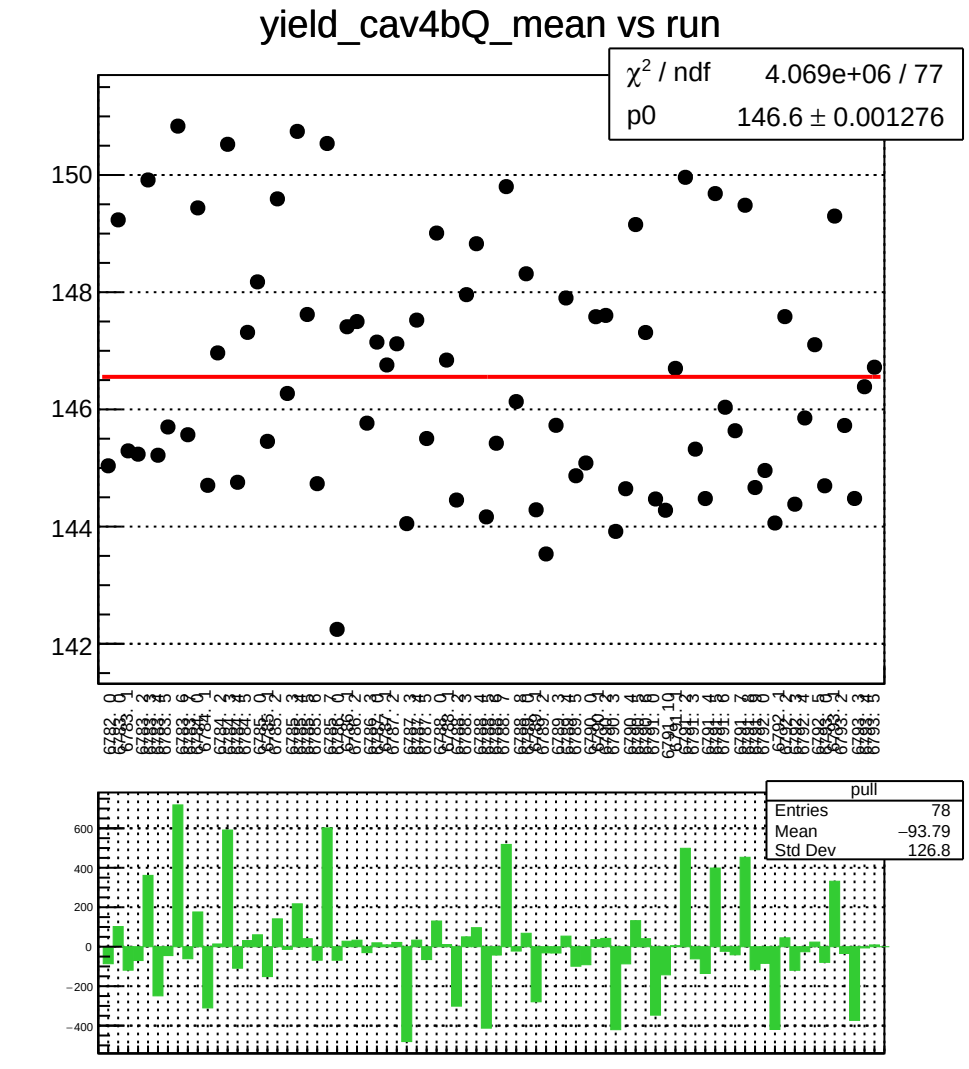

pull1D
Entries 78
Mean −3.976
Std Dev 2.746
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

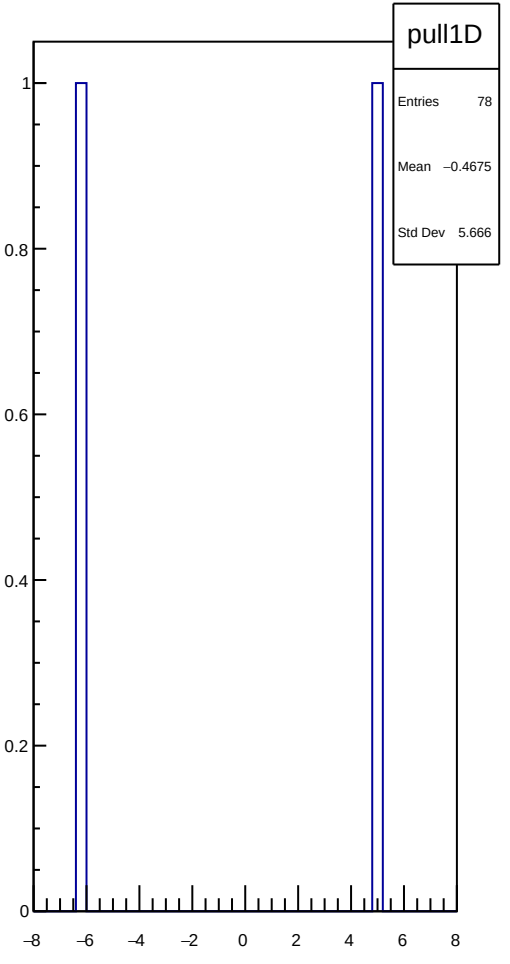

yield_bcm_dg_us_rms vs run
χ² / ndf 1.07e+05 / 77
p0 0.6001 ± 0.0004966
9
8
7
6
5
4
3
2
1

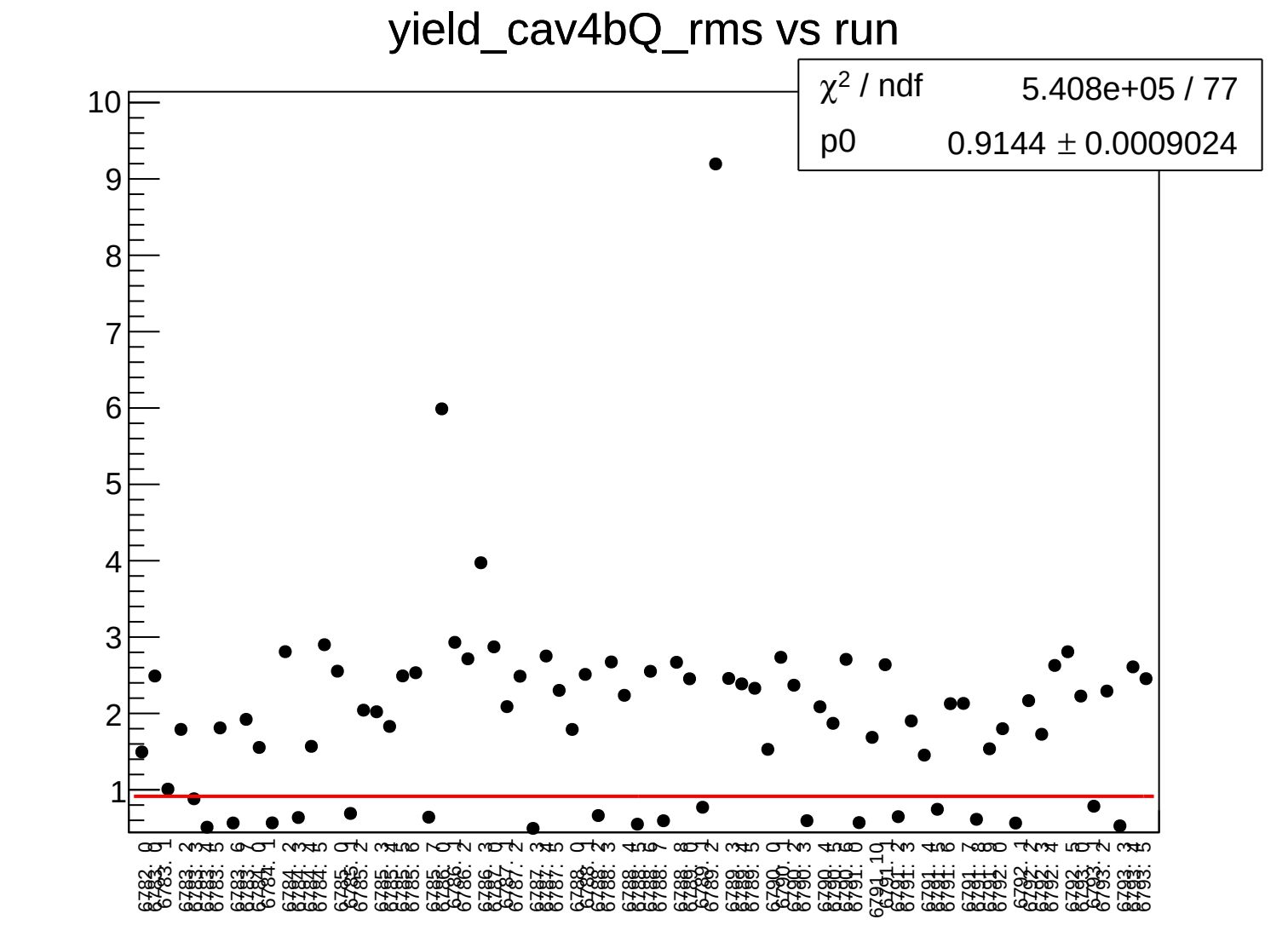

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.104e+06 / 77
p0 148.7 ± 0.0007004
150
149
148
147
146
pull
Entries 78
Mean −9791
Std Dev 9827
300
200
100
0
−100
−200

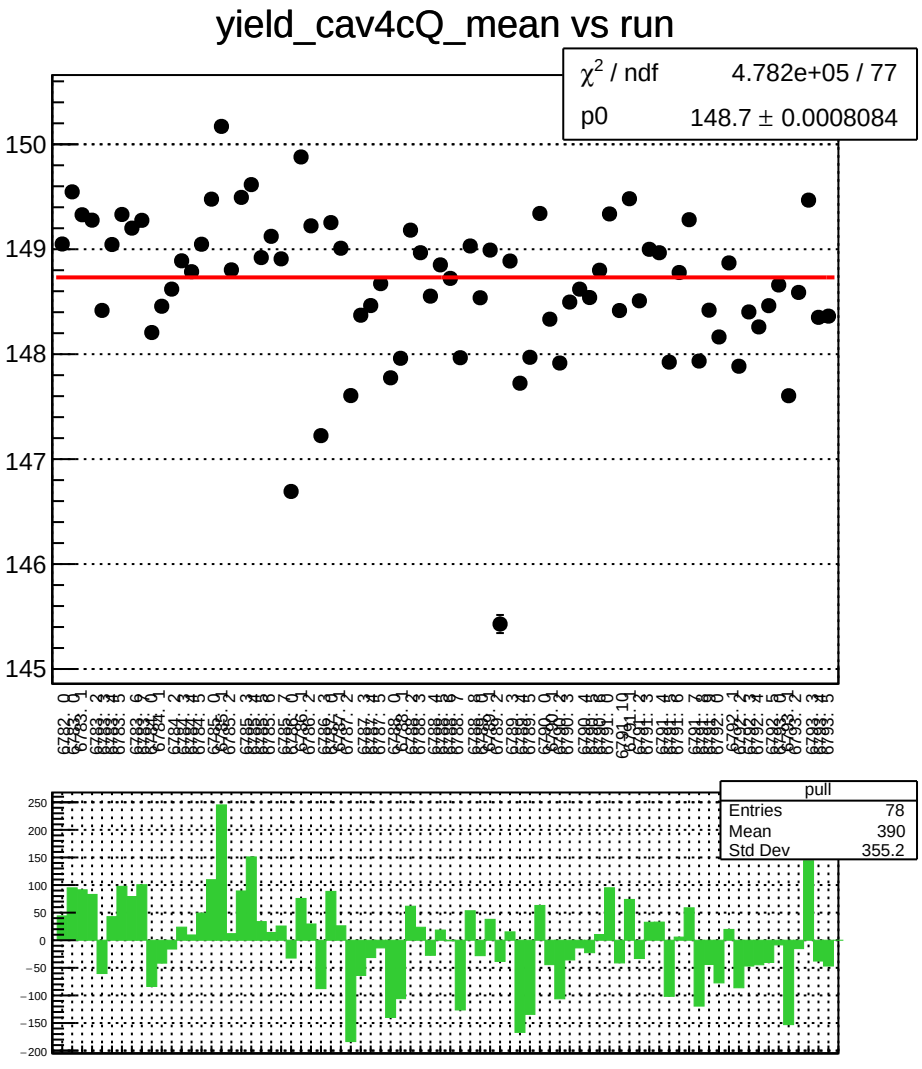

pull1D
Entries 78
Mean −3.741
Std Dev 3.933
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

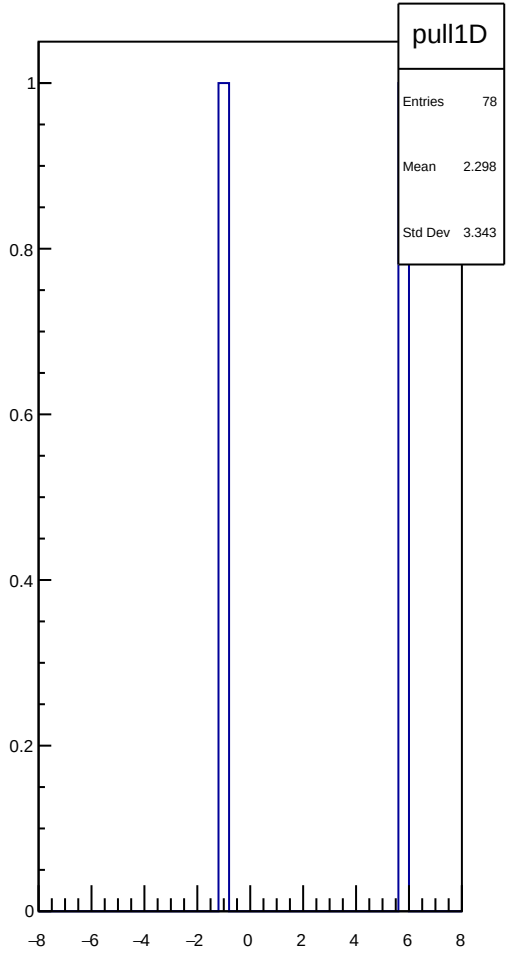

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.11e+05 / 77
p0 0.5977 ± 0.0004953
9
8
7
6
5
4
3
2
1

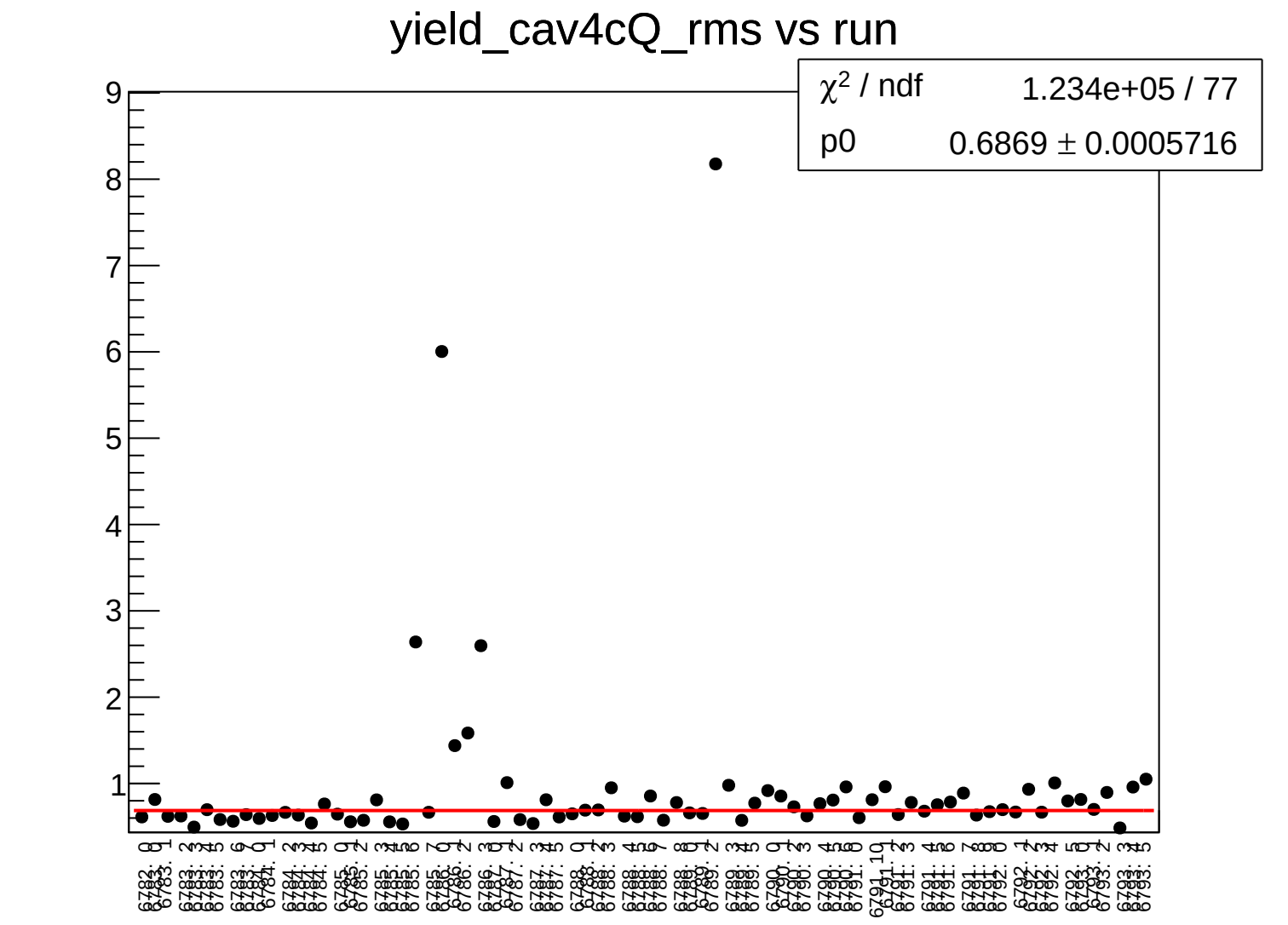

yield_cav4bQ_mean vs run
χ² / ndf 4.069e+06 / 77
p0 146.6 ± 0.001276
150
148
146
144
142
pull
Entries 78
Mean −93.79
Std Dev 126.8
600
400
200
0
−200
−400

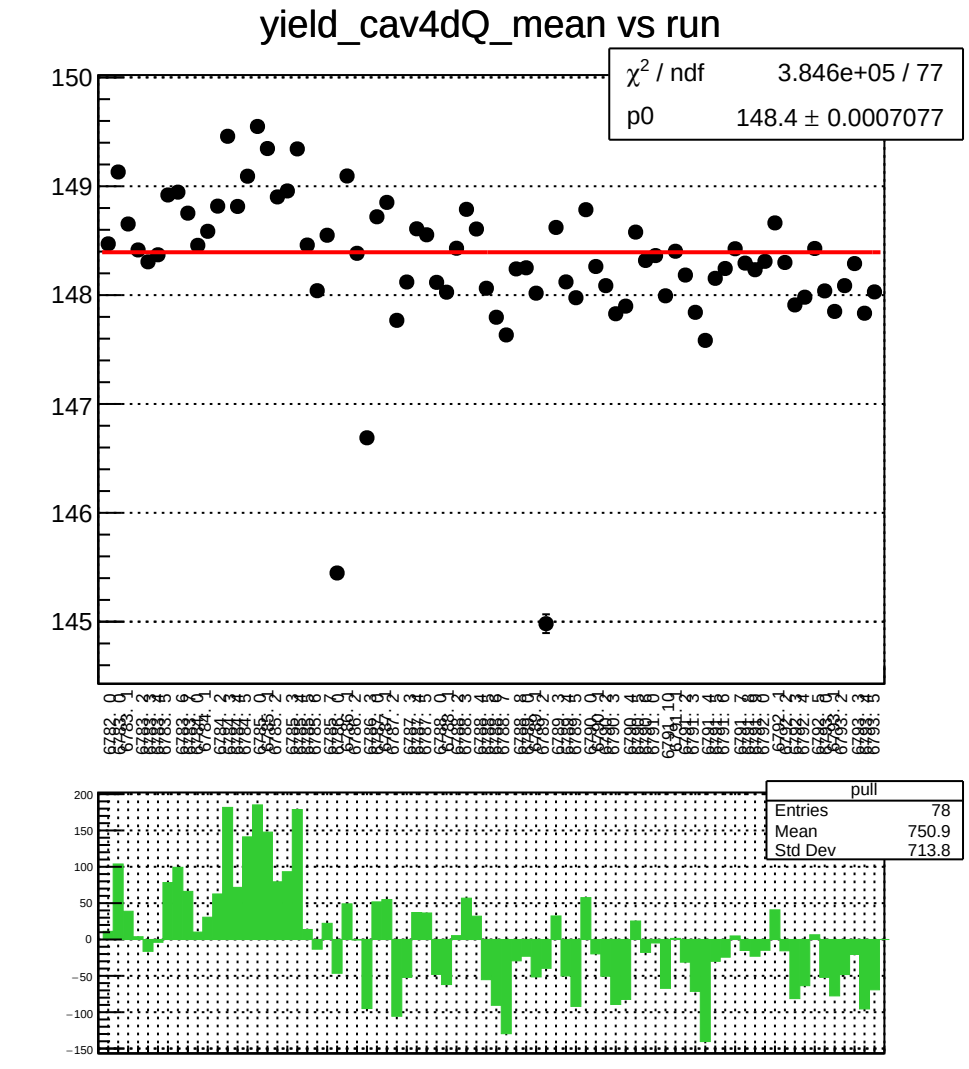

pull1D
Entries 78
Mean −0.4675
Std Dev 5.666
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

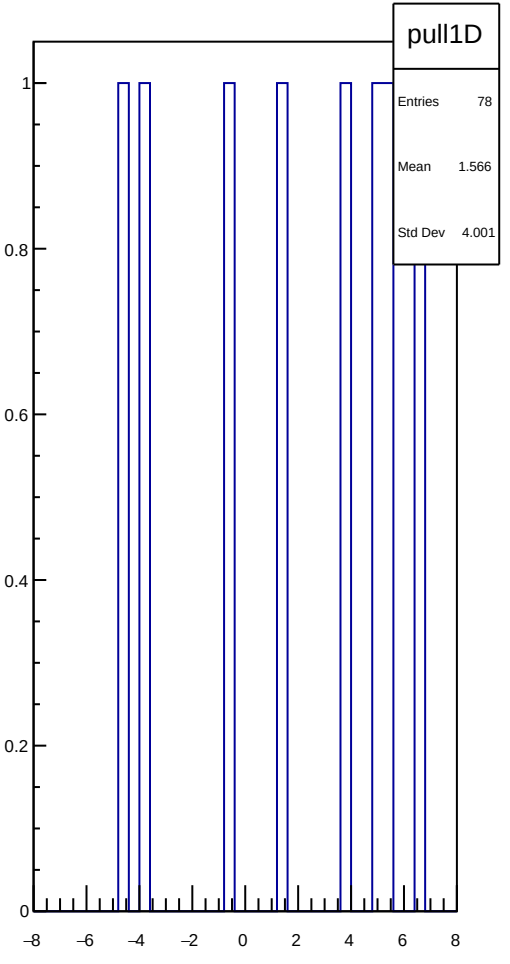

yield_cav4bQ_rms vs run
χ^2 / ndf 5.408e+05 / 77
p0 0.9144 ± 0.0009024
10
9
8
7
6
5
4
3
2
1

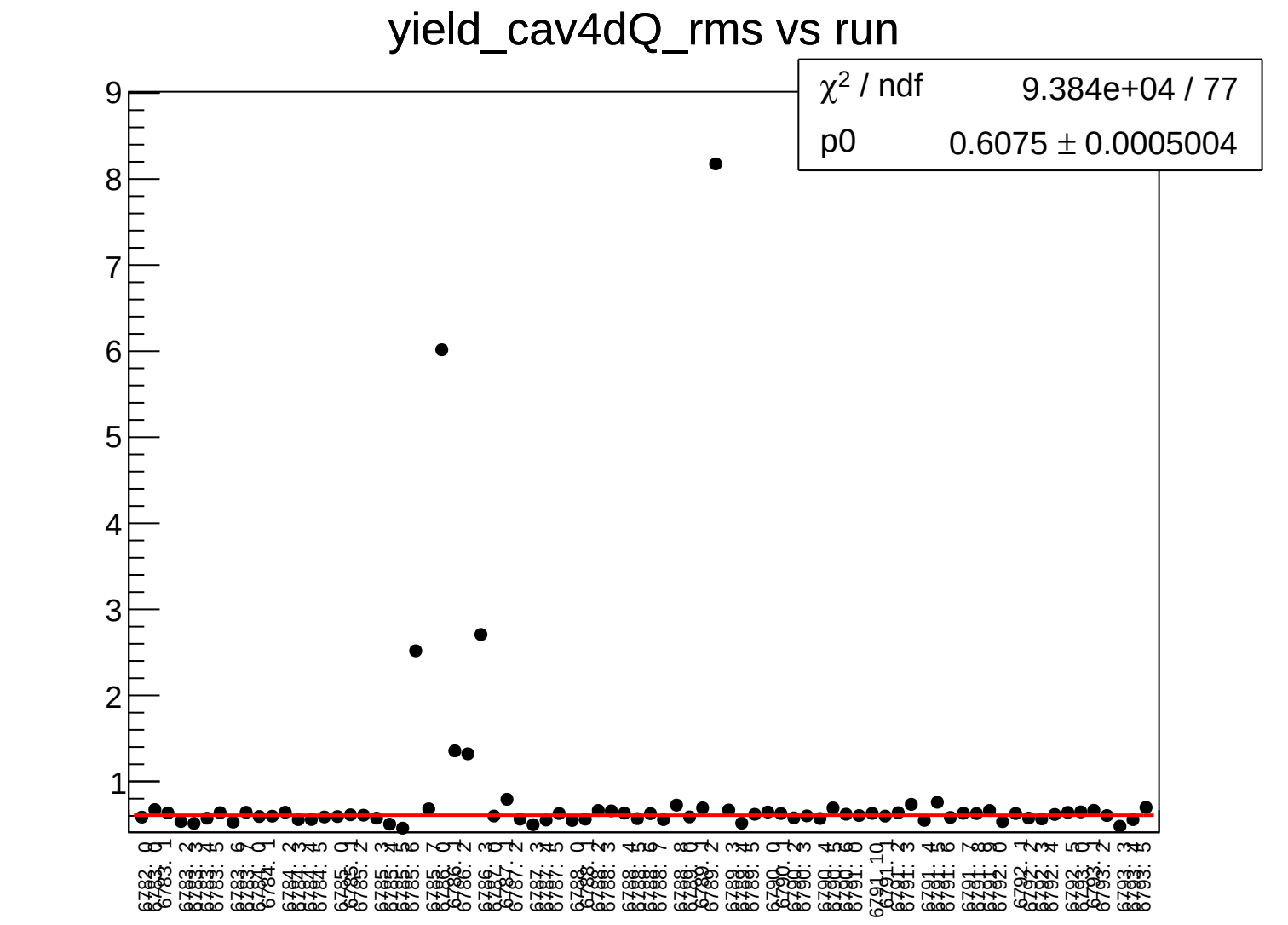

yield_cav4cQ_mean vs run
χ² / ndf 4.782e+05 / 77
p0 148.7 ± 0.0008084
150
149
148
147
146
145
pull
Entries 78
Mean 390
Std Dev 355.2
250
200
150
100
50
0
−50
−100
−150
−200

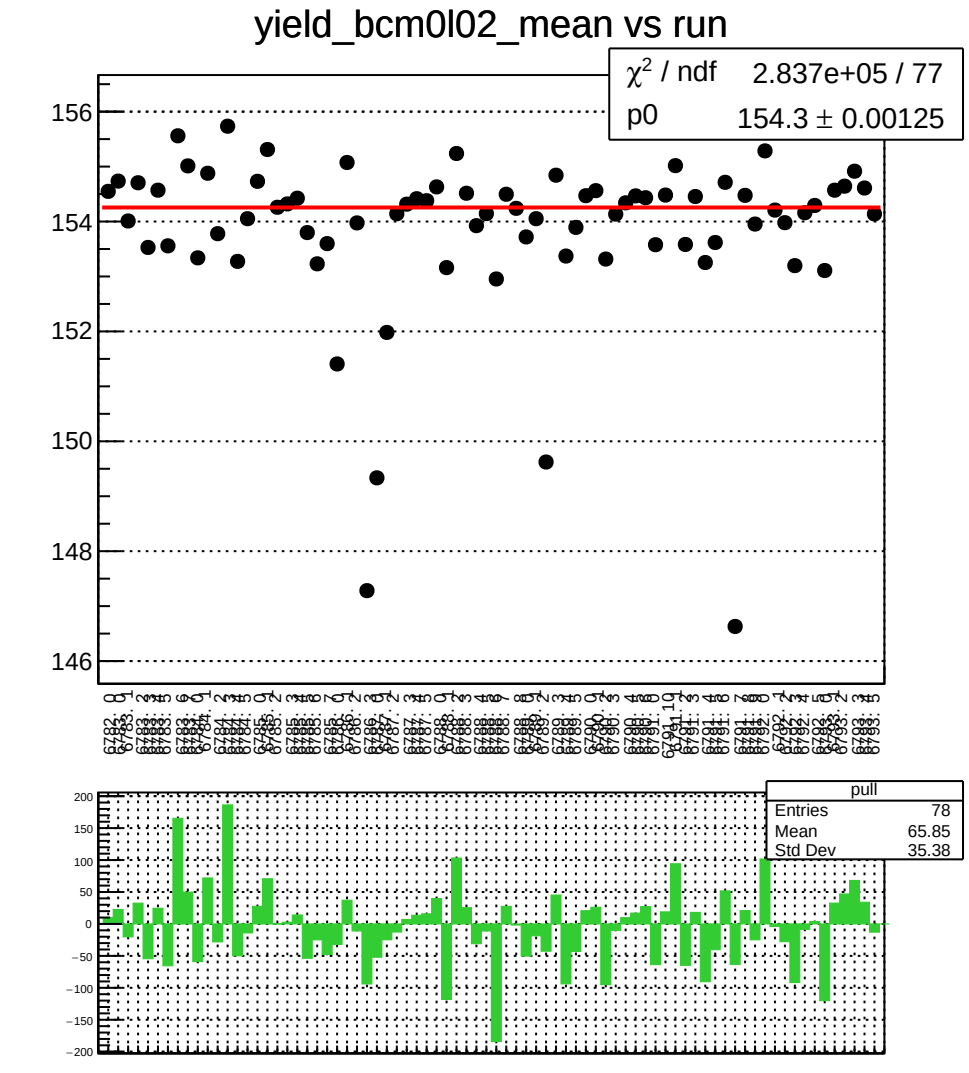

pull1D
Entries 78
Mean 2.298
Std Dev 3.343
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

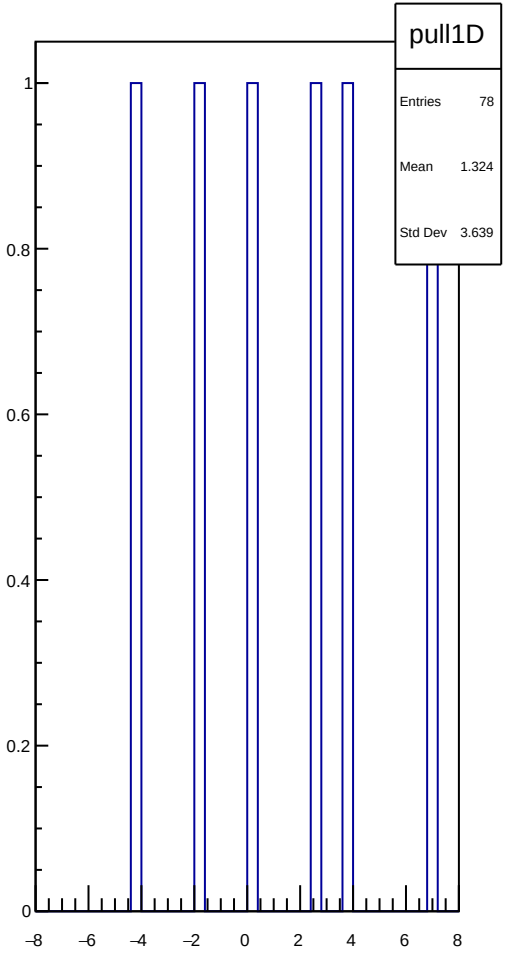

yield_cav4cQ_rms vs run
χ² / ndf 1.234e+05 / 77
p0 0.6869 ± 0.0005716
9
8
7
6
5
4
3
2
1

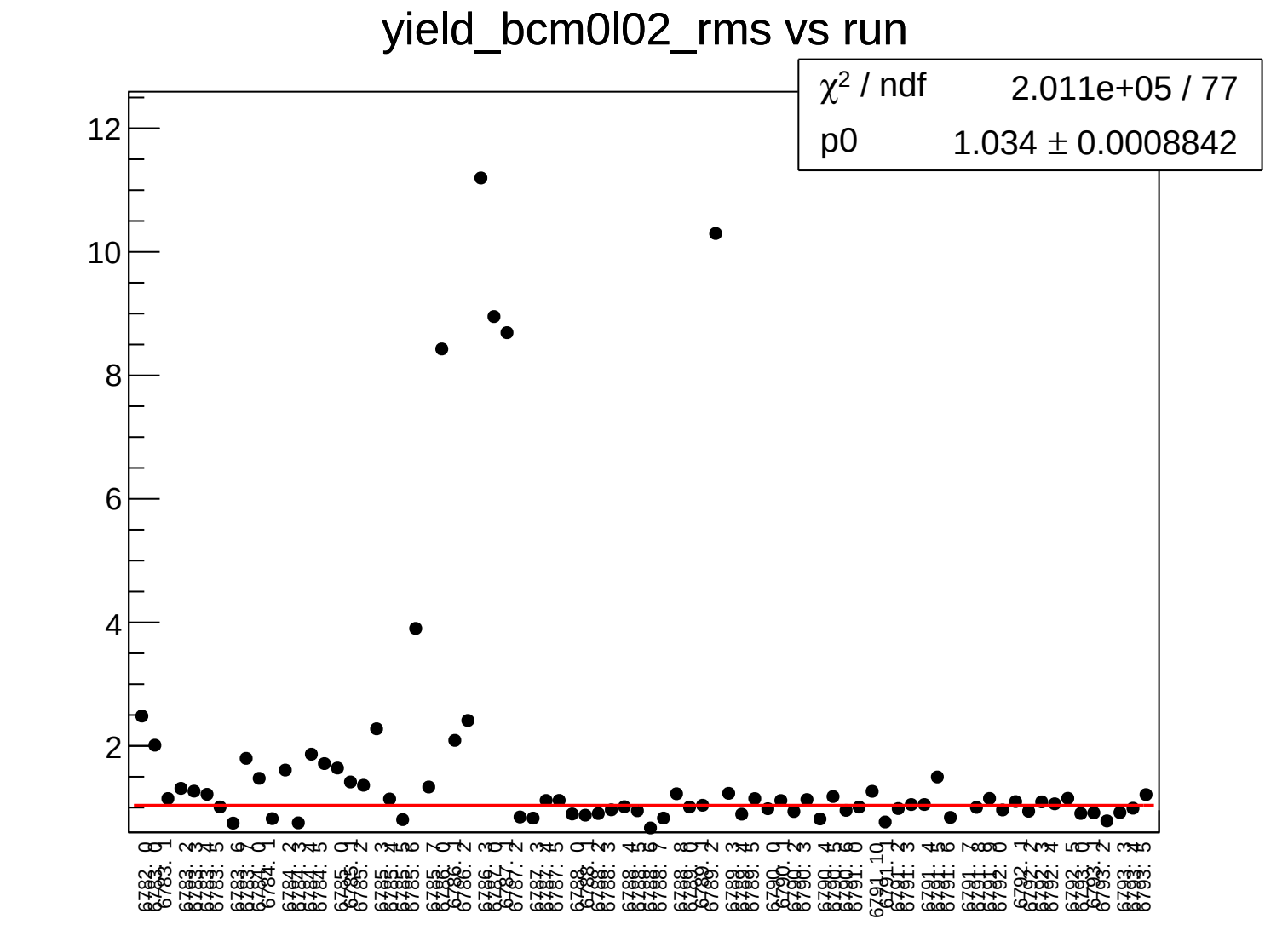

yield_cav4dQ_mean vs run
χ² / ndf 3.846e+05 / 77
p0 148.4 ± 0.0007077
150
149
148
147
146
145
pull
Entries 78
Mean 750.9
Std Dev 713.8
200
150
100
50
0
−50
−100
−150

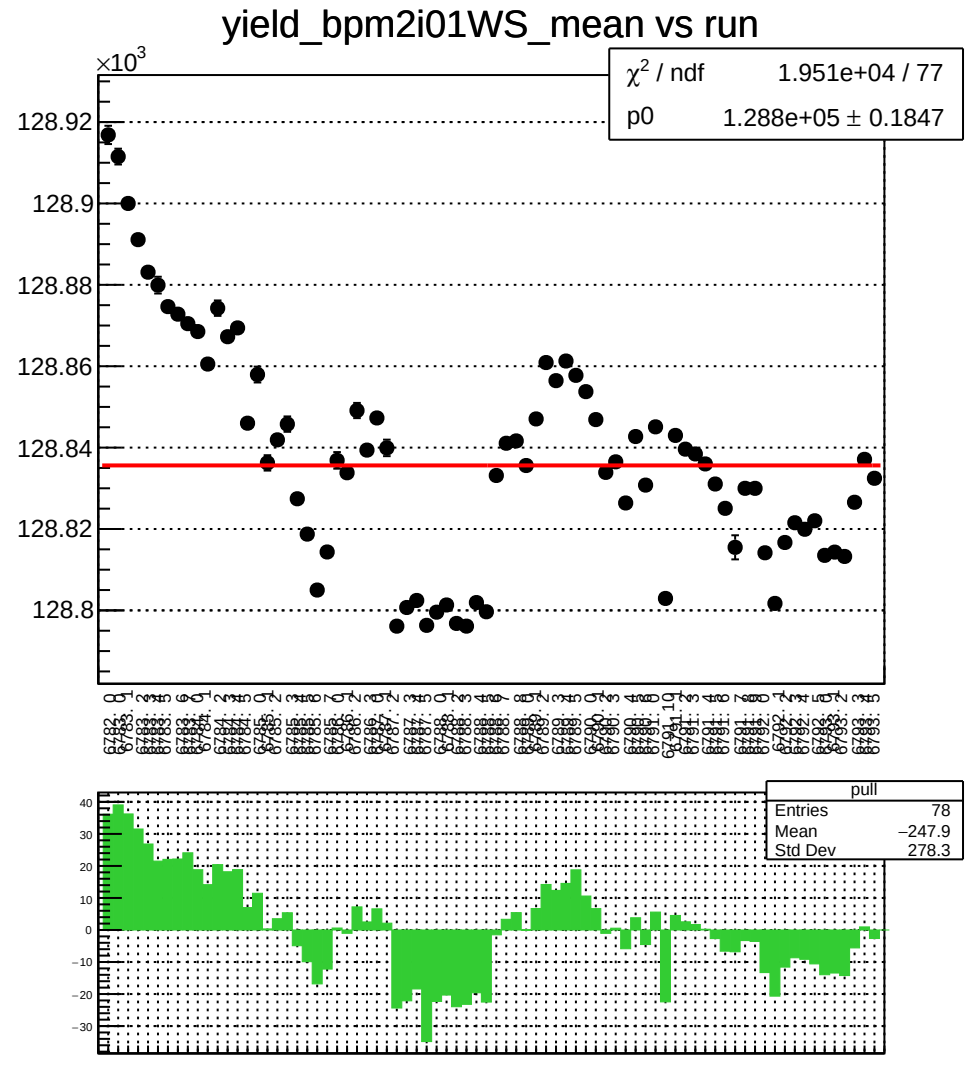

pull1D
Entries 78
Mean 1.566
Std Dev 4.001
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

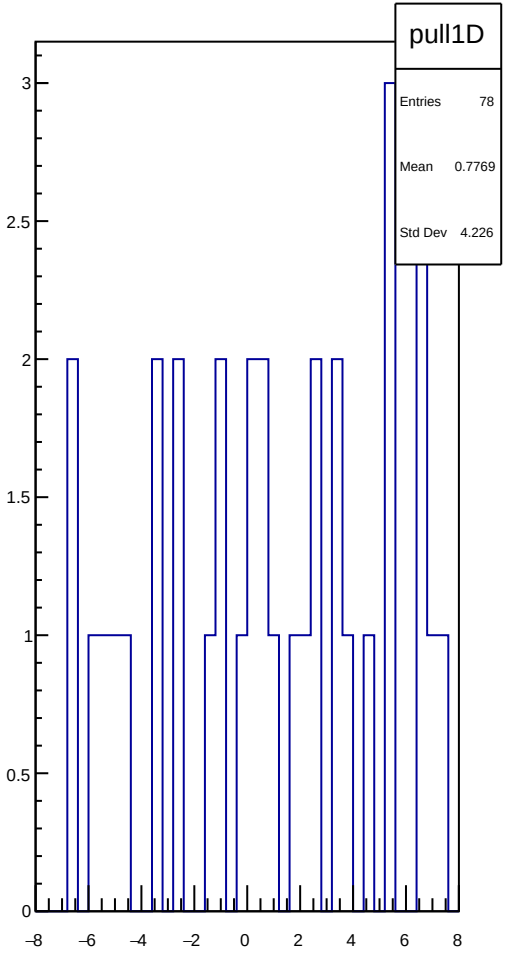

yield_cav4dQ_rms vs run
χ² / ndf 9.384e+04 / 77
p0 0.6075 ± 0.0005004
9
8
7
6
5
4
3
2
1

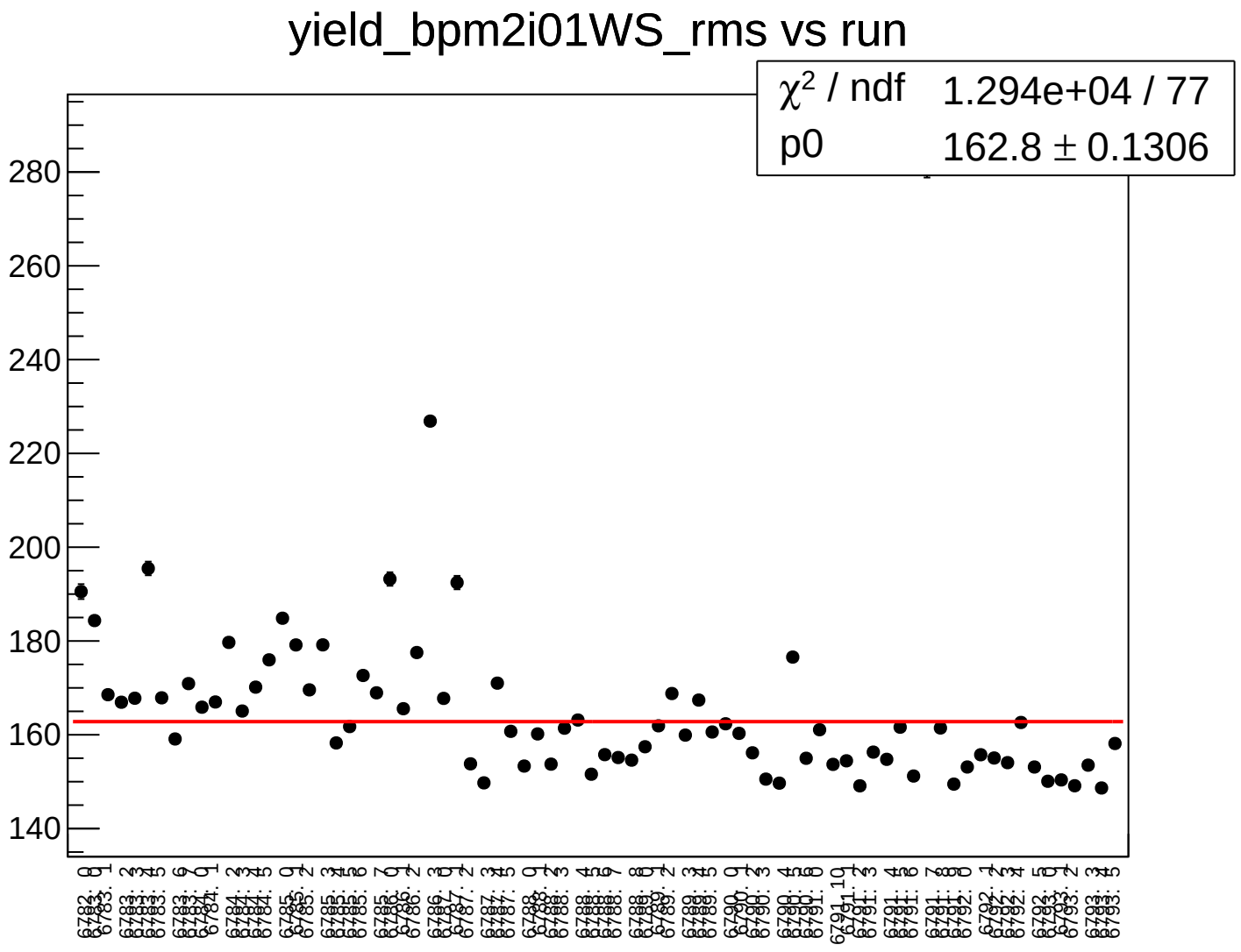

yield_bcm0l02_mean vs run
χ² / ndf 2.837e+05 / 77
p0 154.3 ± 0.00125
156
154
152
150
148
146
pull
Entries 78
Mean 65.85
Std Dev 35.38
200
150
100
50
0
−50
−100
−150
−200

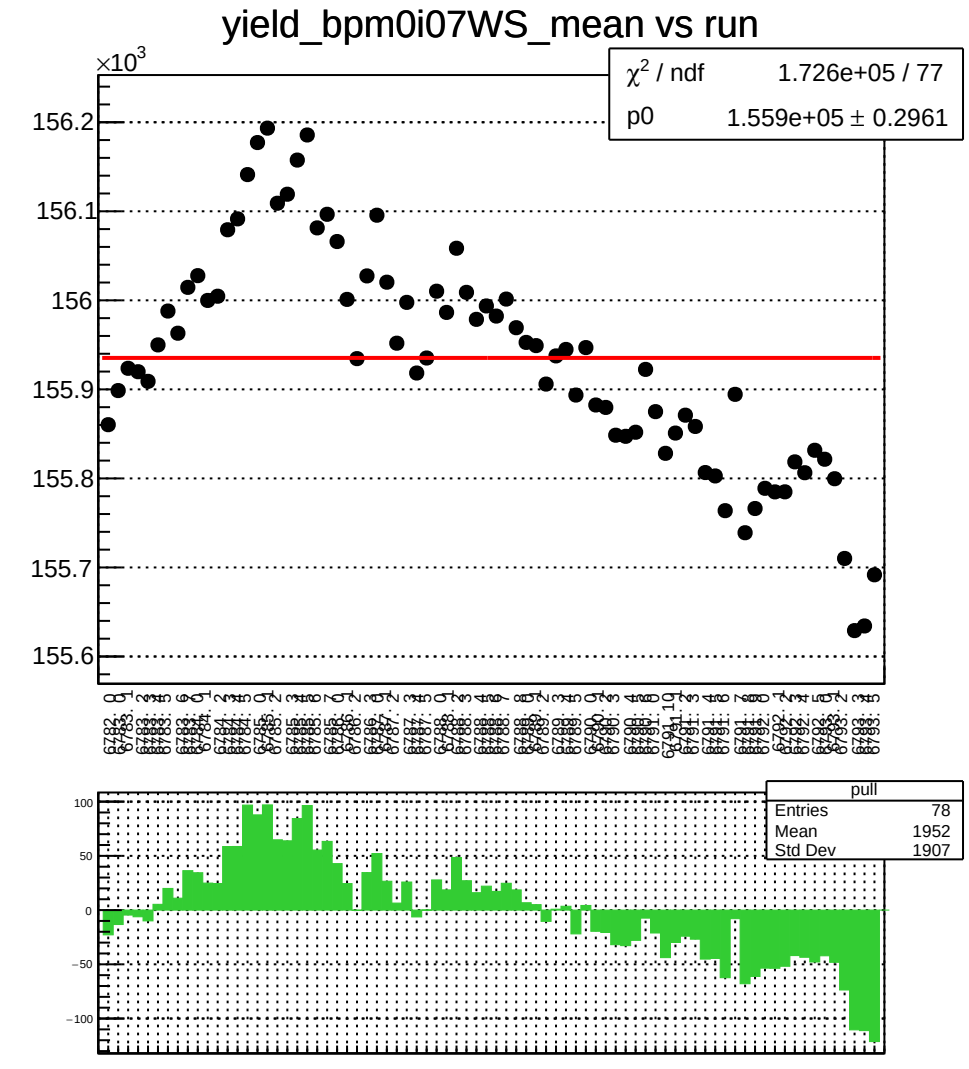

pull1D
Entries 78
Mean 1.324
Std Dev 3.639
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

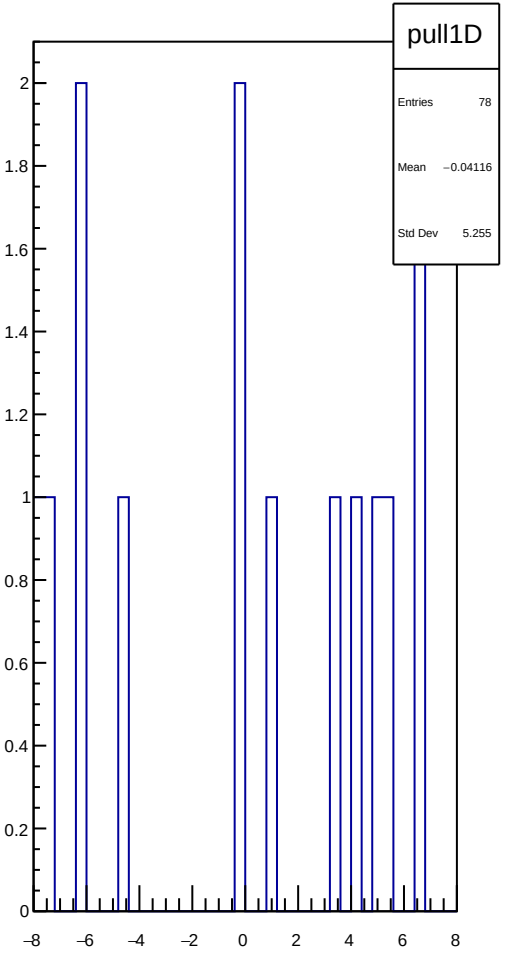

yield_bcm0l02_rms vs run
χ² / ndf 2.011e+05 / 77
p0 1.034 ± 0.0008842
12
10
8
6
4
2

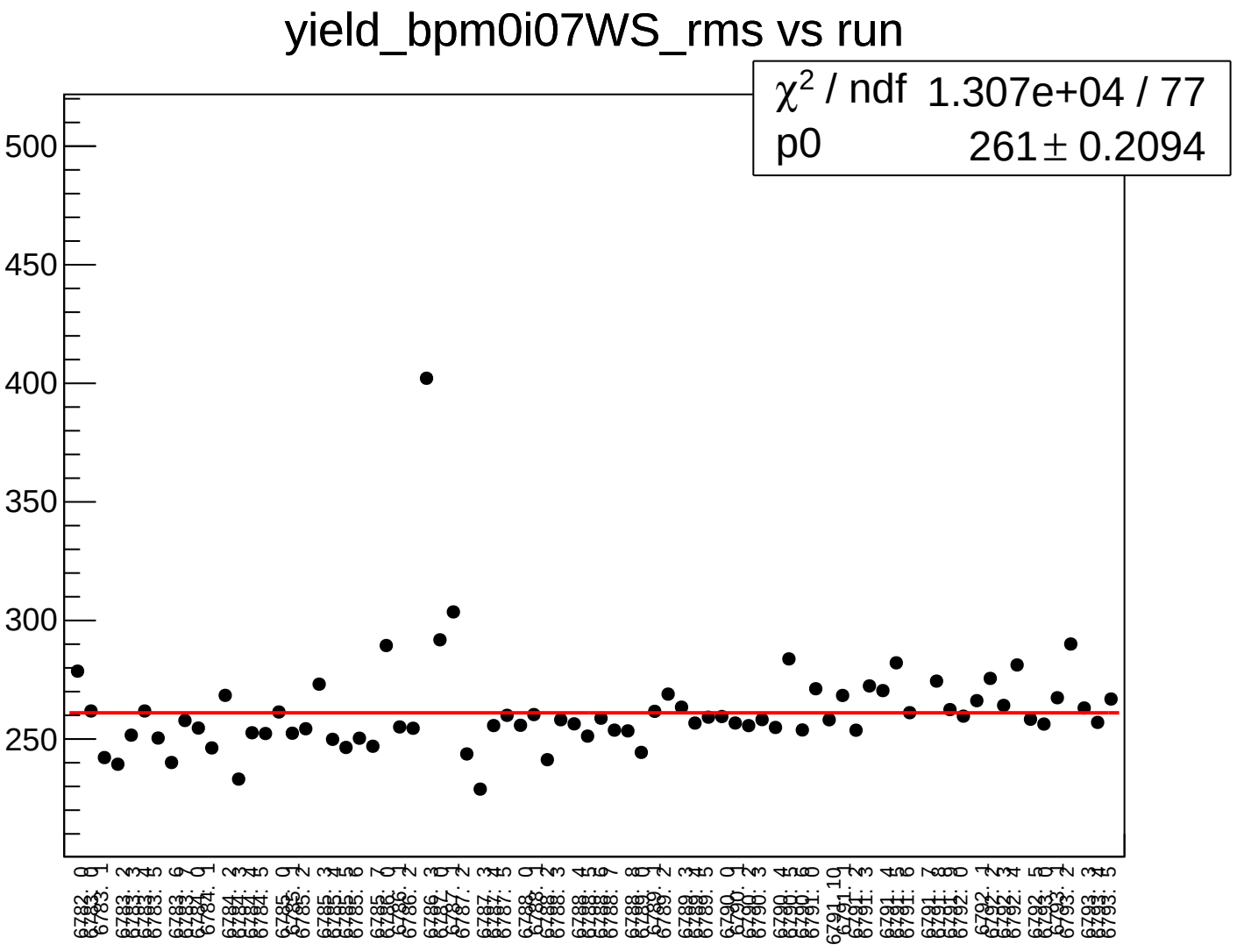

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.951e+04 / 77
p0 1.288e+05 ± 0.1847
128.92
128.9
128.88
128.86
128.84
128.82
128.8
pull
Entries 78
Mean −247.9
Std Dev 278.3
40
30
20
10
0
−10
−20
−30

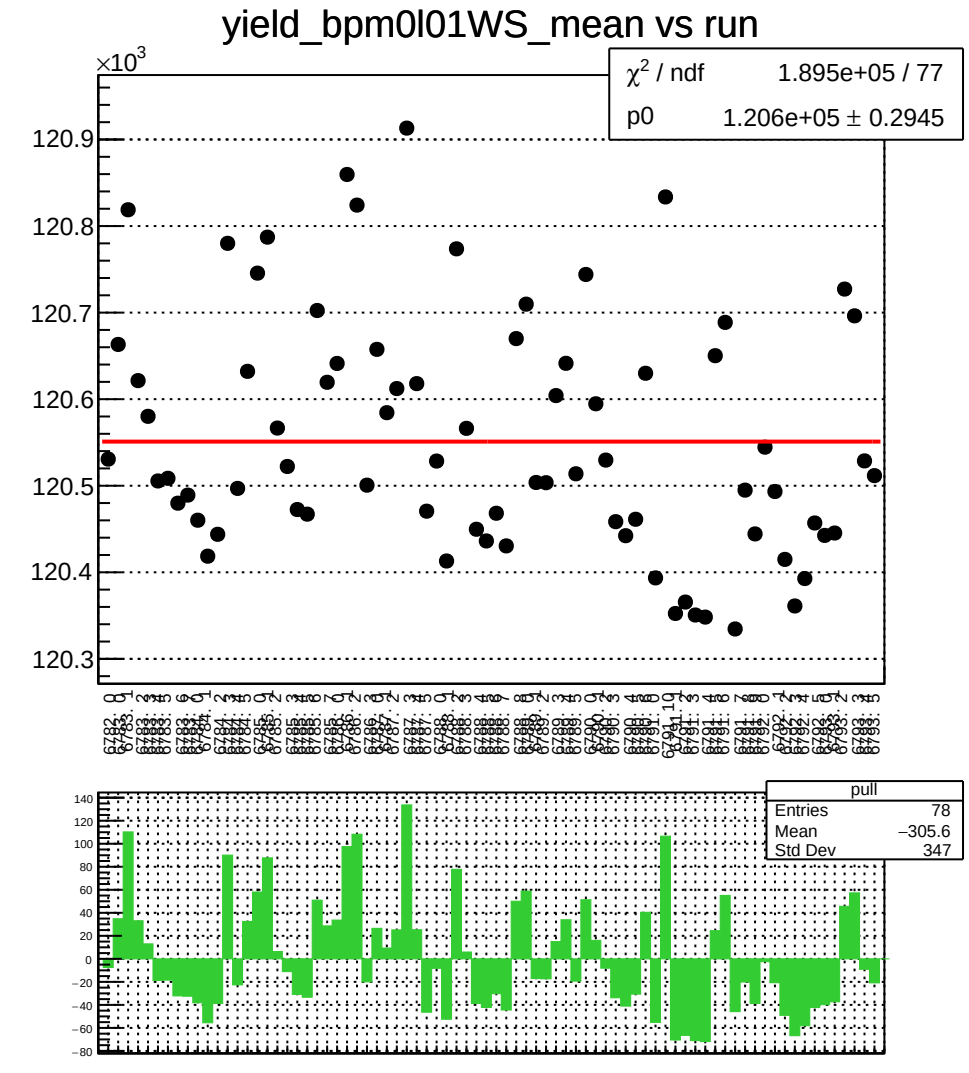

pull1D
Entries 78
Mean 0.7769
Std Dev 4.226
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

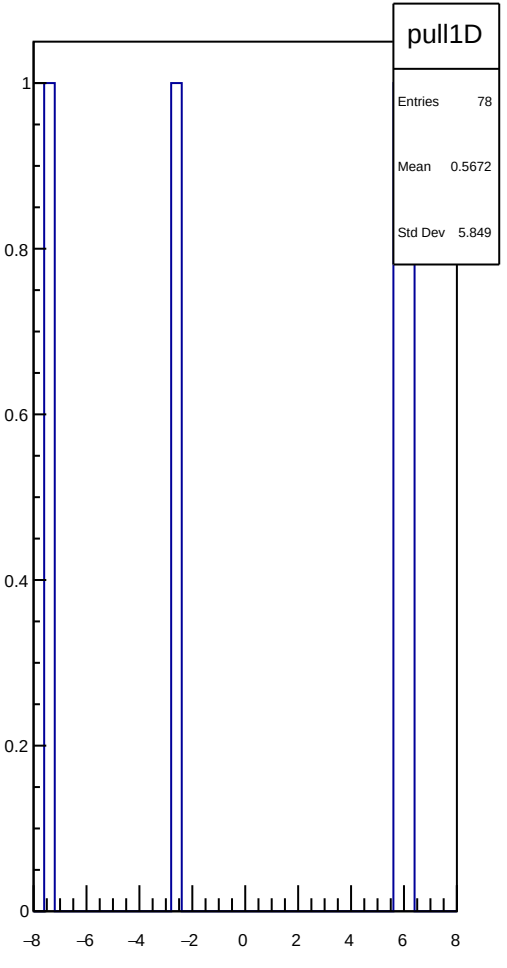

yield_bpm2i01WS_rms vs run
χ^2 / ndf 1.294e+04 / 77
p0 162.8 ± 0.1306
280
260
240
220
200
180
160
140

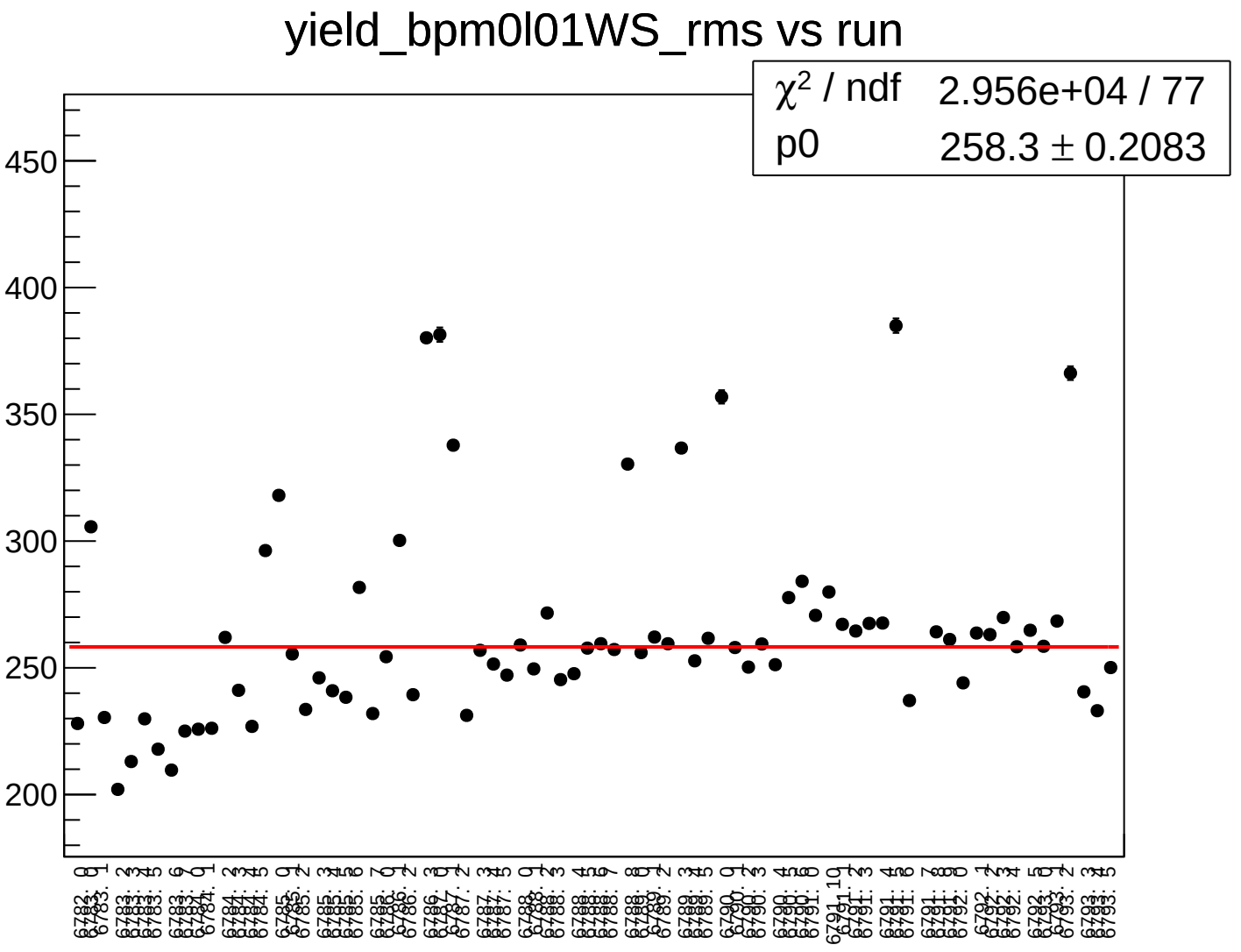

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.726e+05 / 77
p0 1.559e+05 ± 0.2961
156.2
156.1
156
155.9
155.8
155.7
155.6
pull
Entries 78
Mean 1952
Std Dev 1907
100
50
0
−50
−100

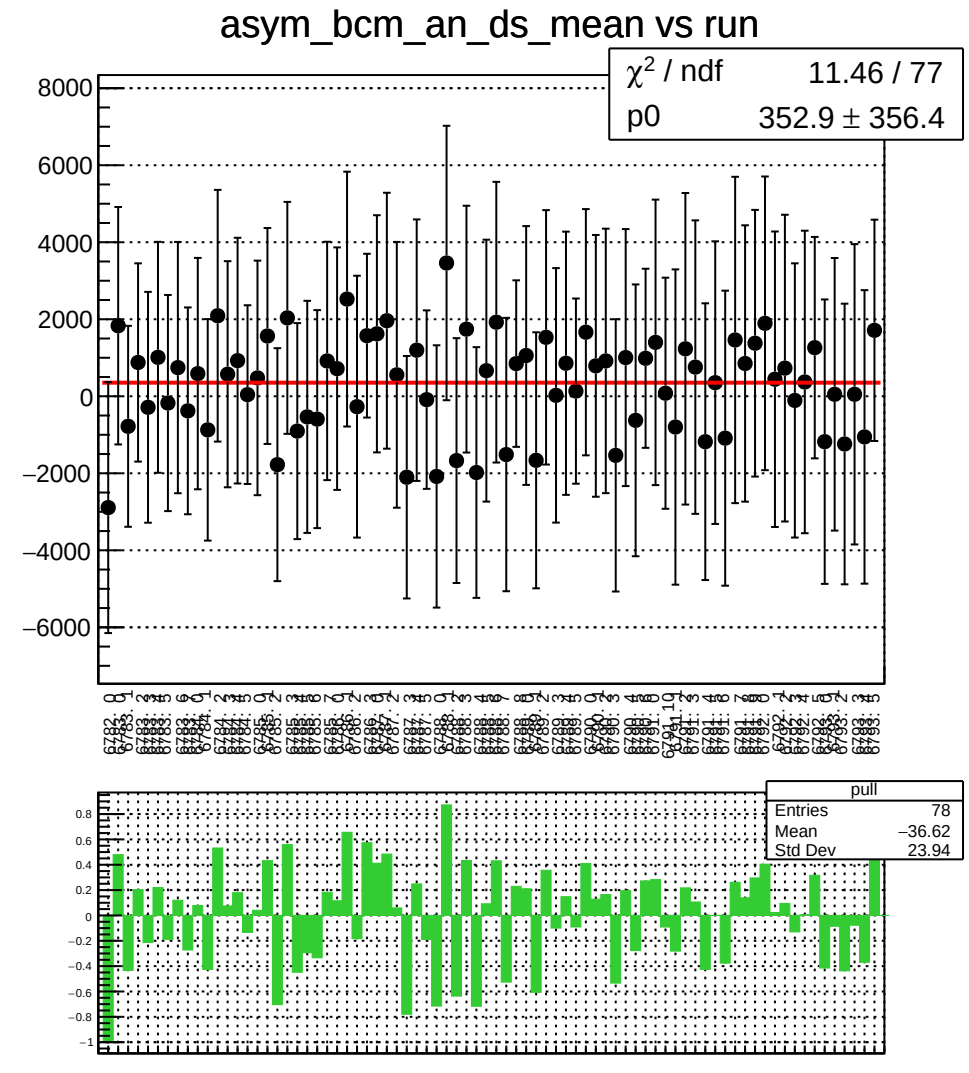

pull1D
Entries 78
Mean −0.04116
Std Dev 5.255
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

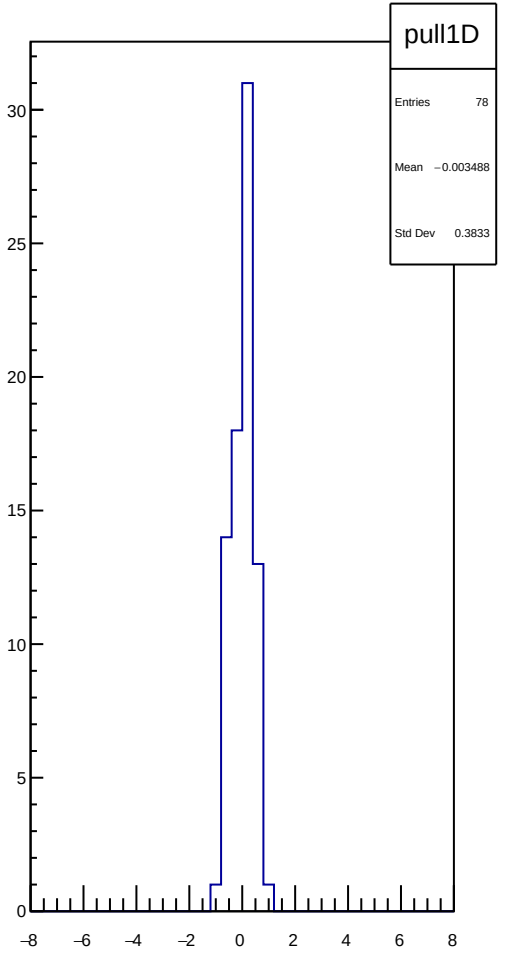

yield_bpm0i07WS_rms vs run
χ^2 / ndf 1.307e+04 / 77
p0 261 ± 0.2094
500
450
400
350
300
250

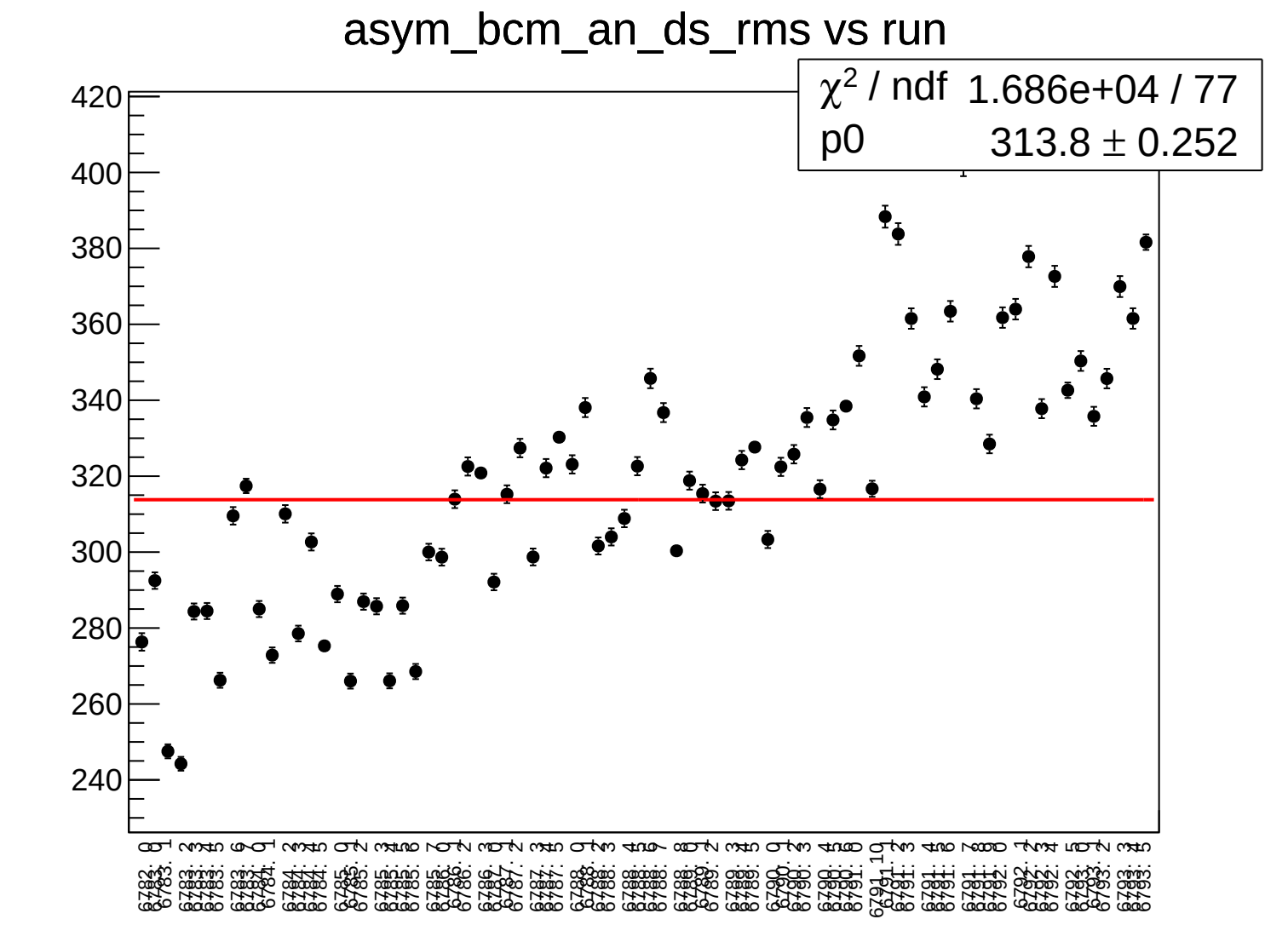

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.895e+05 / 77
p0 1.206e+05 ± 0.2945
120.9
120.8
120.7
120.6
120.5
120.4
120.3
pull
Entries 78
Mean −305.6
Std Dev 347
140
120
100
80
60
40
20
0
−20
−40
−60
−80

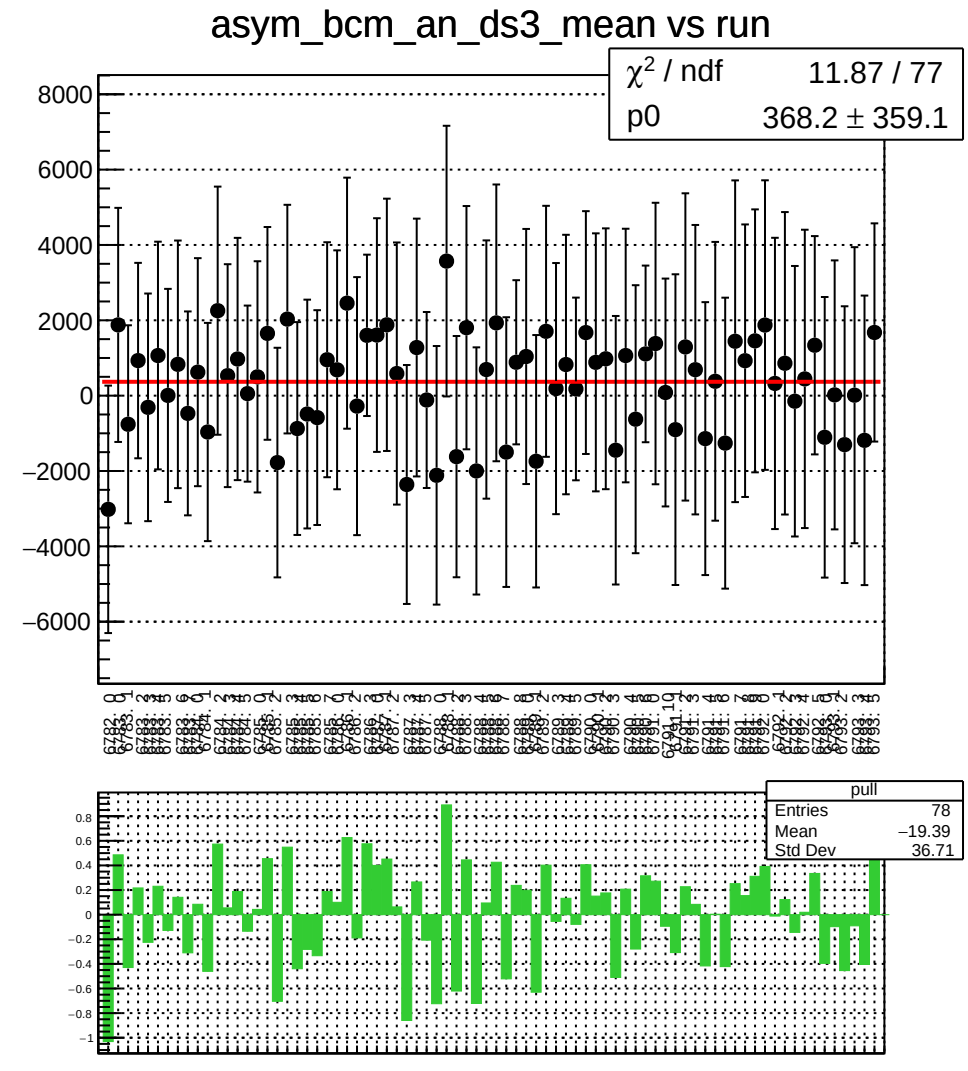

pull1D
Entries 78
Mean 0.5672
Std Dev 5.849
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

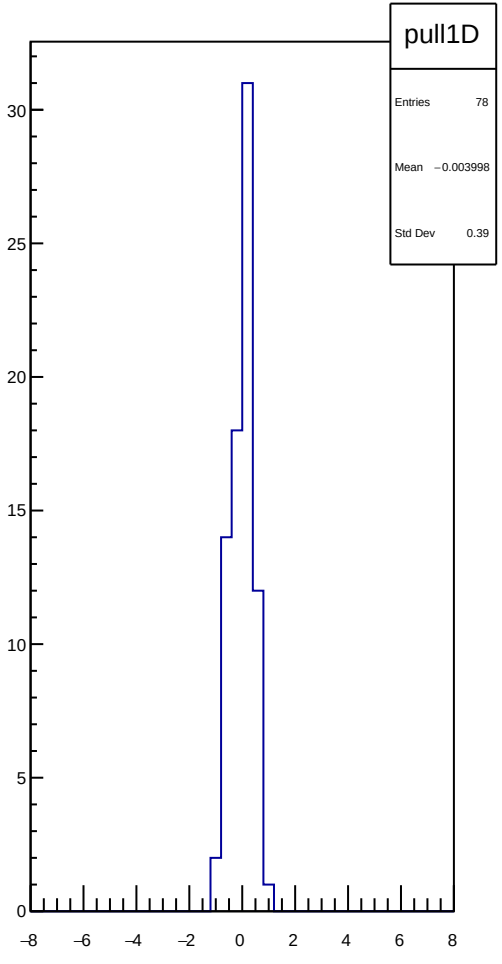

yield_bpm0l01WS_rms vs run
χ² / ndf 2.956e+04 / 77
p0 258.3 ± 0.2083
450
400
350
300
250
200

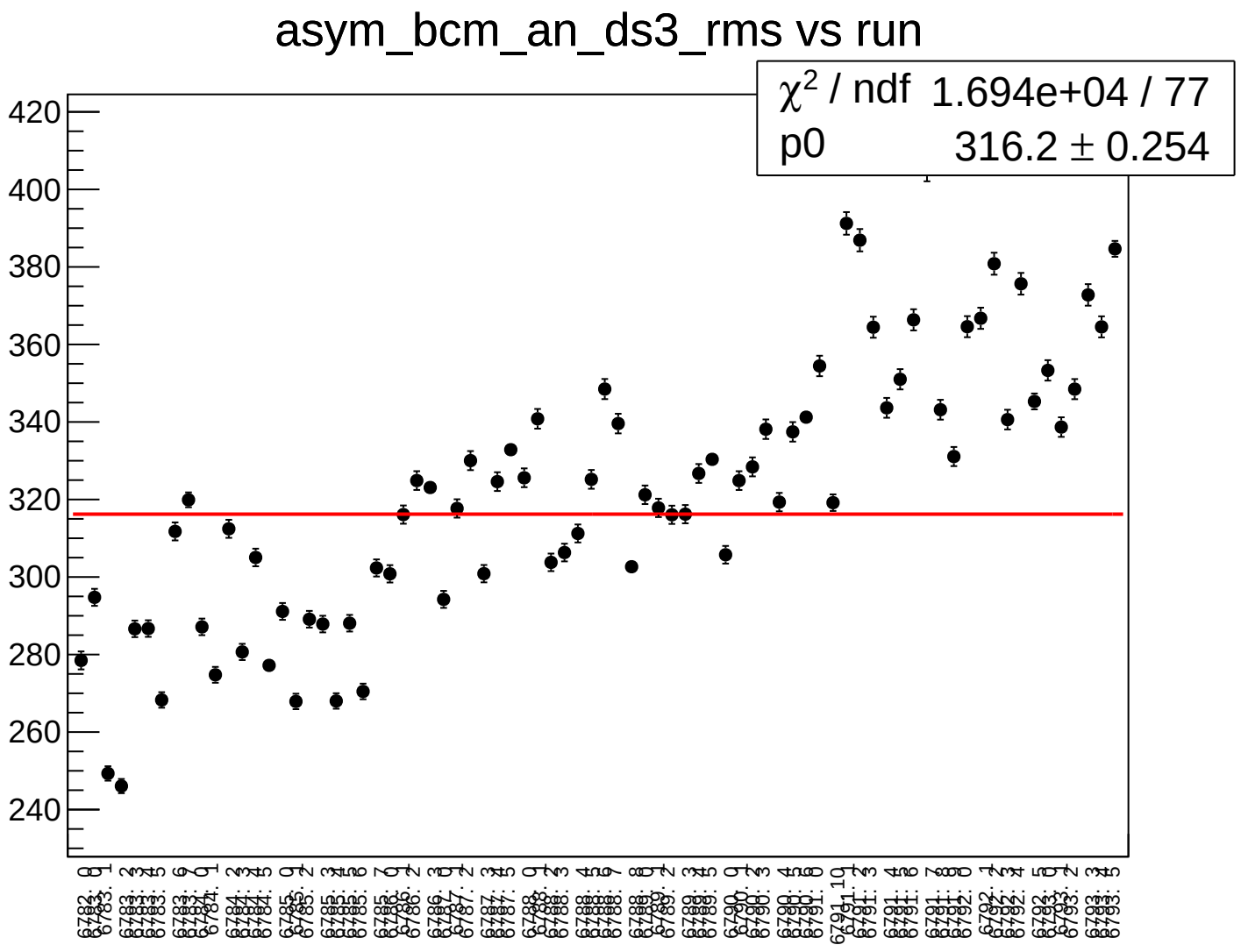

asym_bcm_an_ds_mean vs run
χ² / ndf 11.46 / 77
p0 352.9 ± 356.4
pull
Entries 78
Mean −36.62
Std Dev 23.94

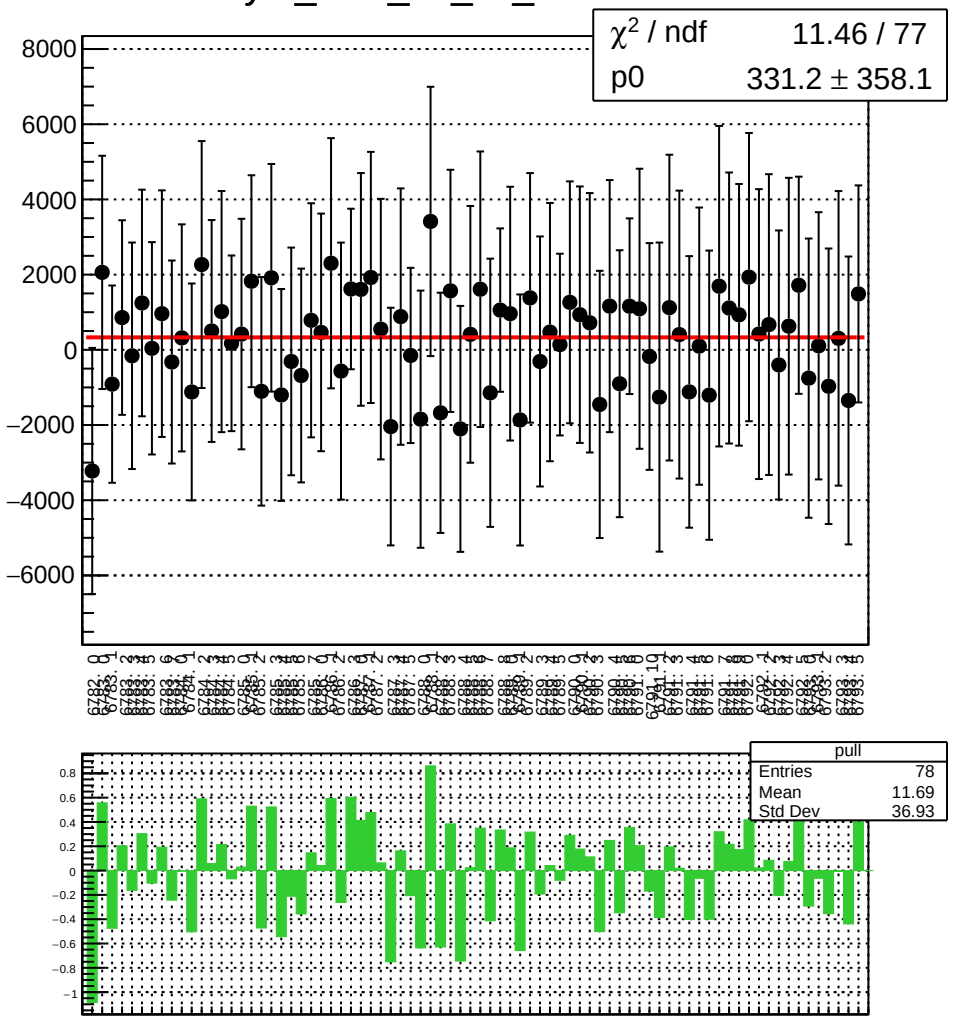

pull1D
Entries 78
Mean −0.003488
Std Dev 0.3833

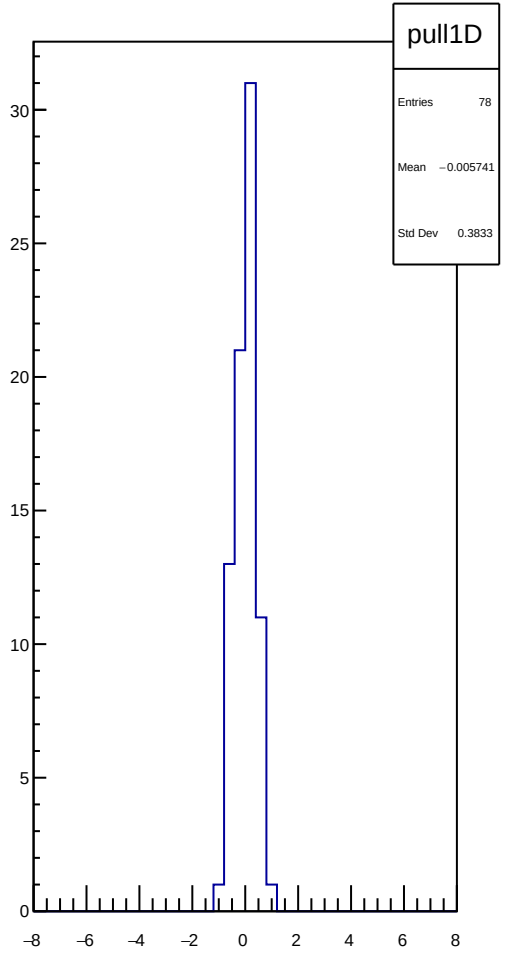

asym_bcm_an_ds_rms vs run
χ² / ndf 1.686e+04 / 77
p0 313.8 ± 0.252
420
400
380
360
340
320
300
280
260
240

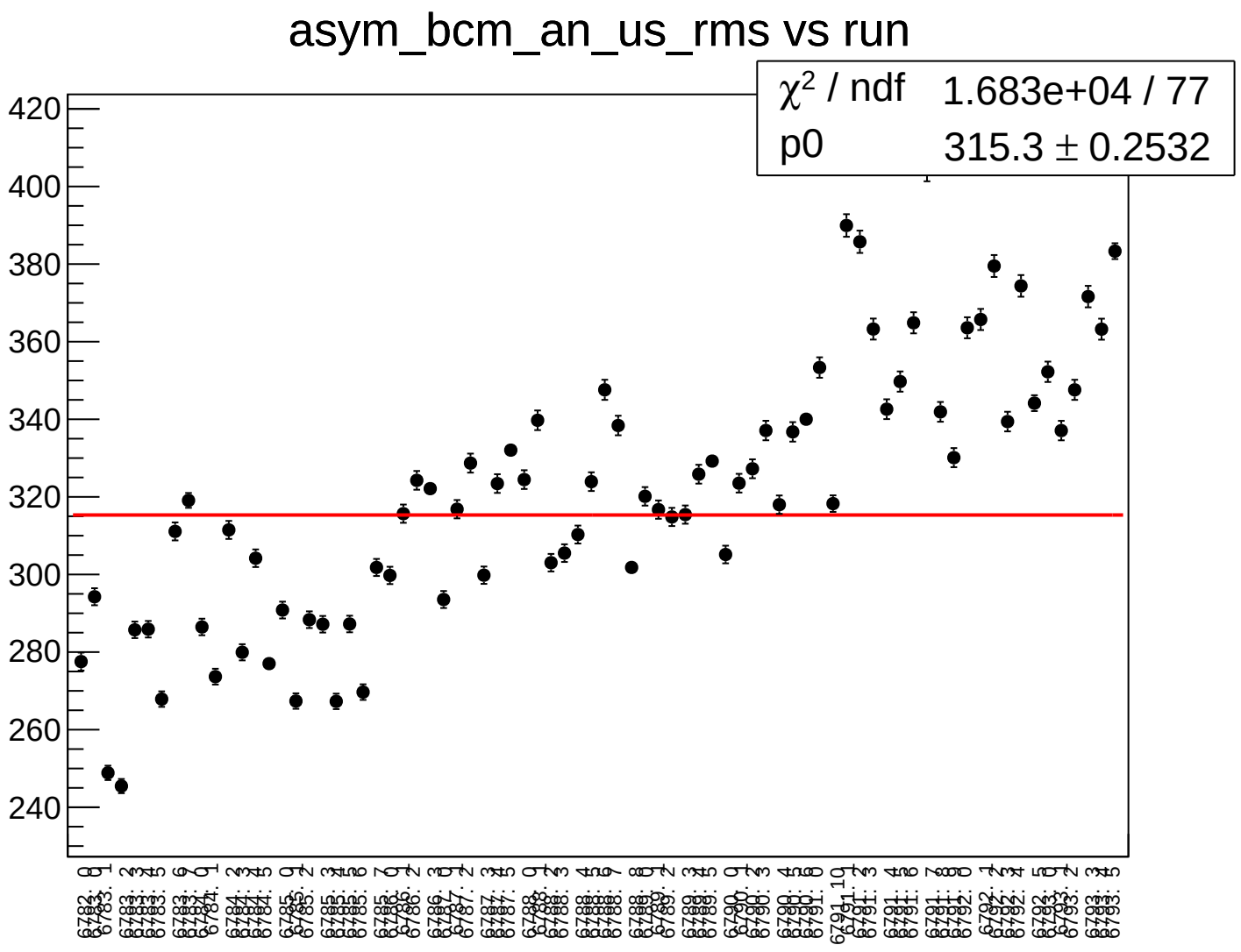

asym_bcm_an_ds3_mean vs run
χ² / ndf 11.87 / 77
p0 368.2 ± 359.1
pull
Entries 78
Mean −19.39
Std Dev 36.71

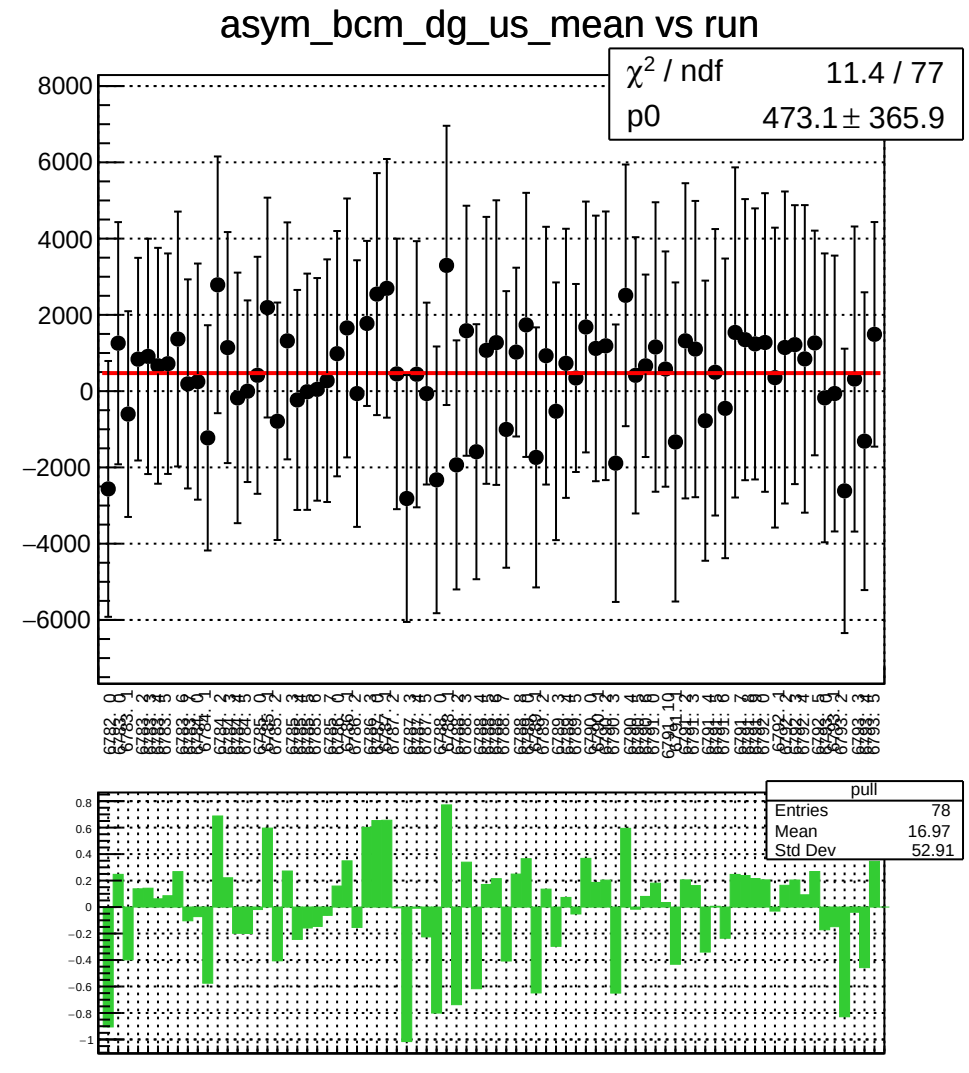

pull1D
Entries 78
Mean −0.003998
Std Dev 0.39

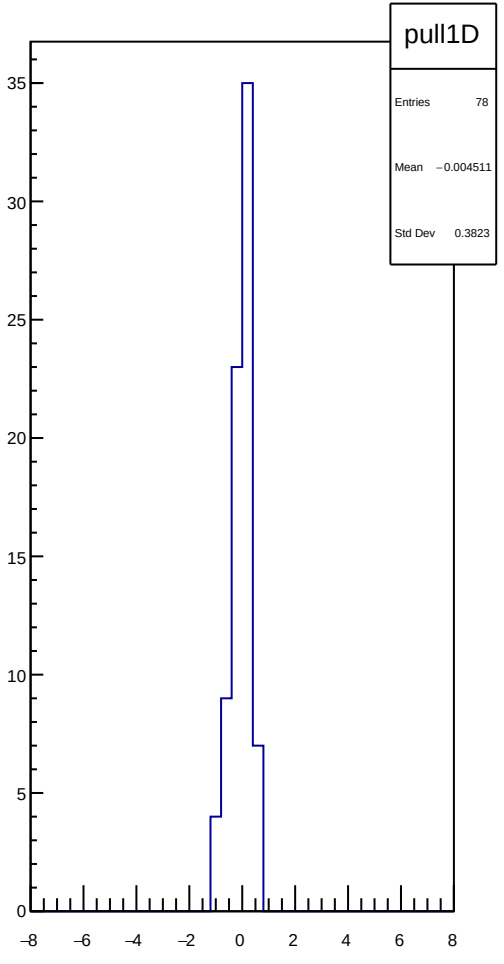

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.694e+04 / 77
p0 316.2 ± 0.254
420
400
380
360
340
320
300
280
260
240

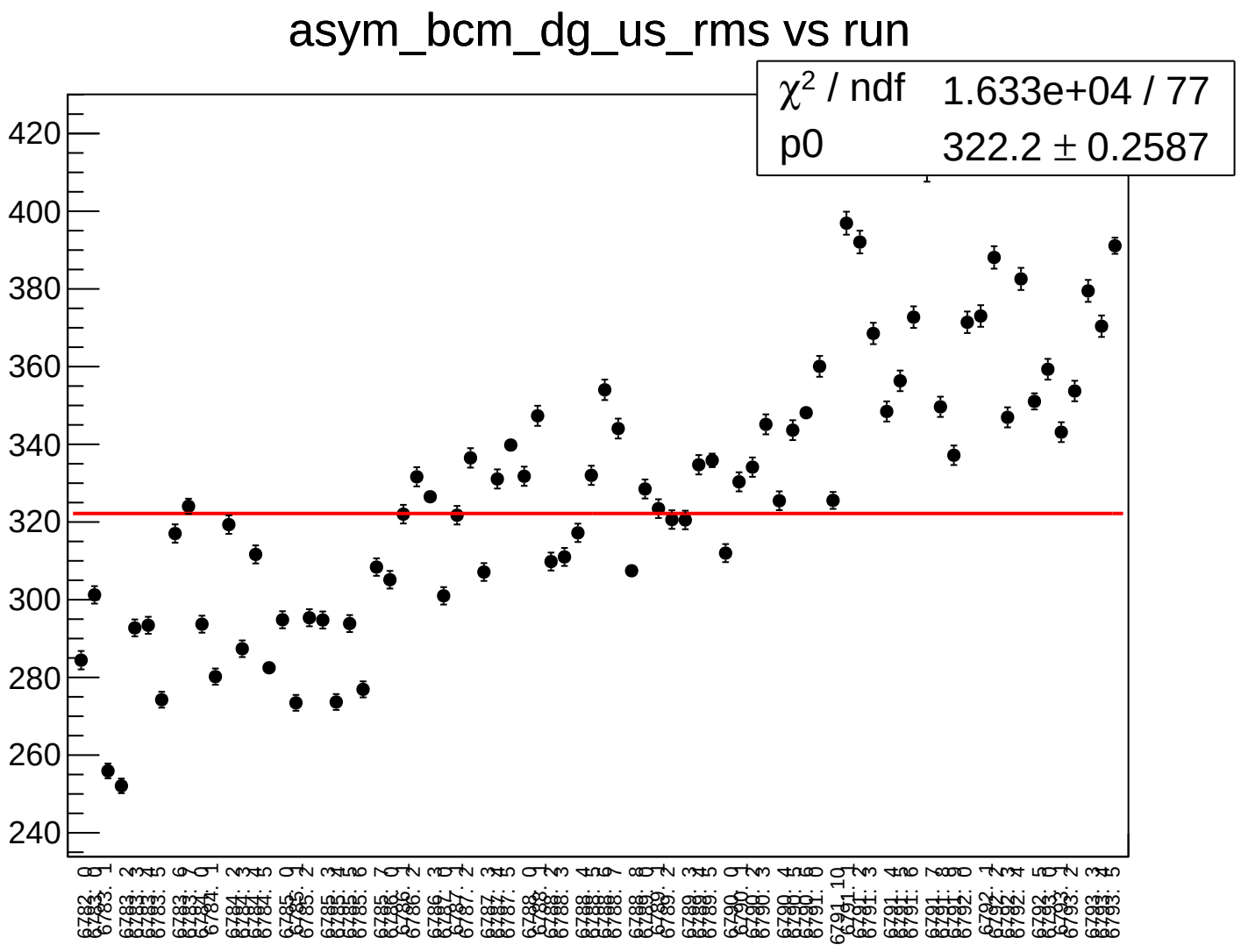

asym_bcm_an_us_mean vs run
χ² / ndf 11.46 / 77
p0 331.2 ± 358.1
pull
Entries 78
Mean 11.69
Std Dev 36.93

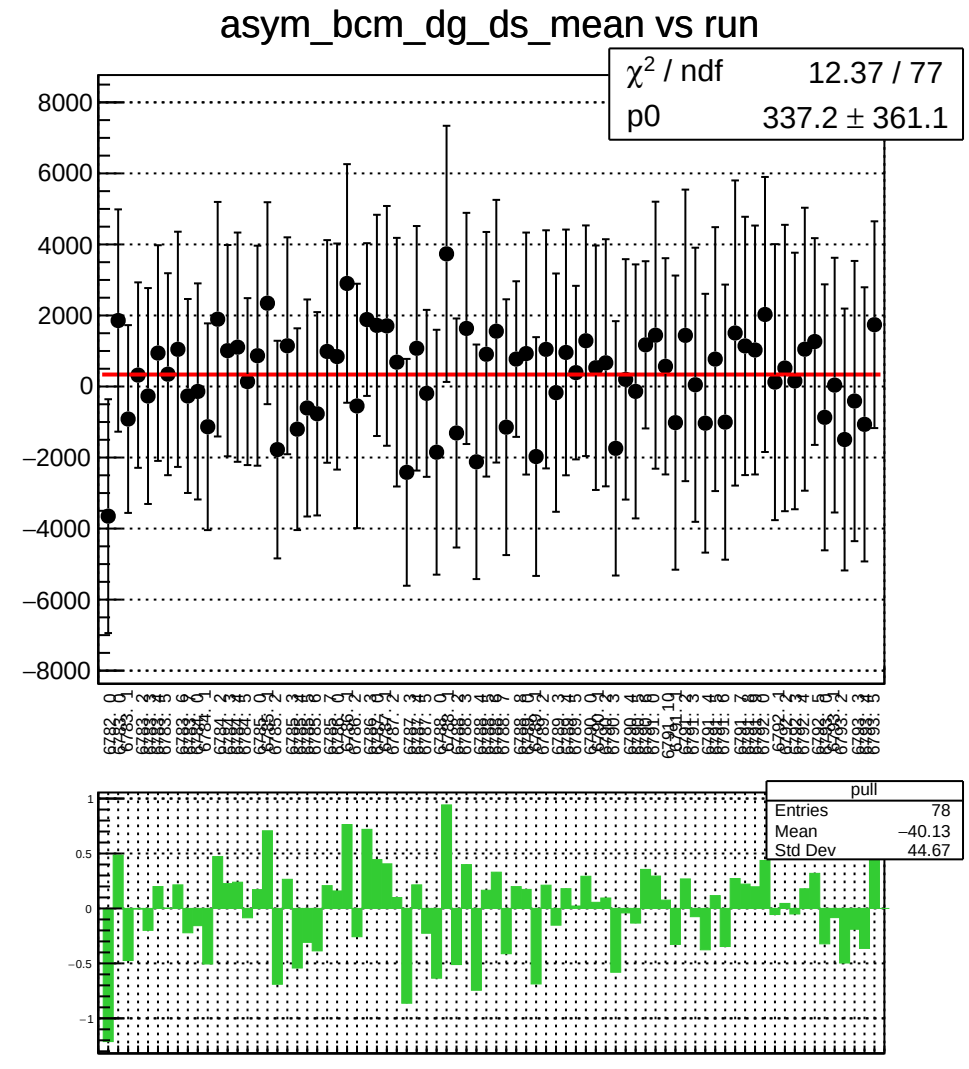

pull1D
Entries 78
Mean −0.005741
Std Dev 0.3833

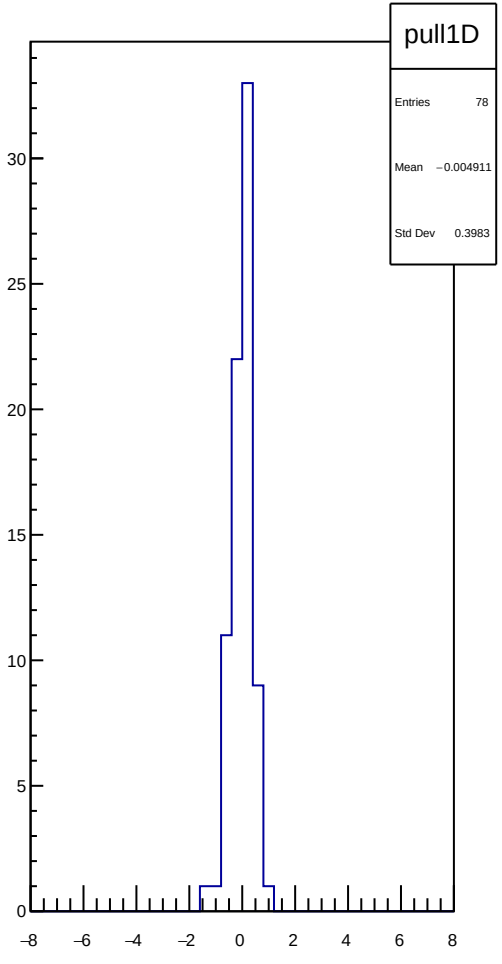

asym_bcm_an_us_rms vs run
χ² / ndf 1.683e+04 / 77
p0 315.3 ± 0.2532
420
400
380
360
340
320
300
280
260
240

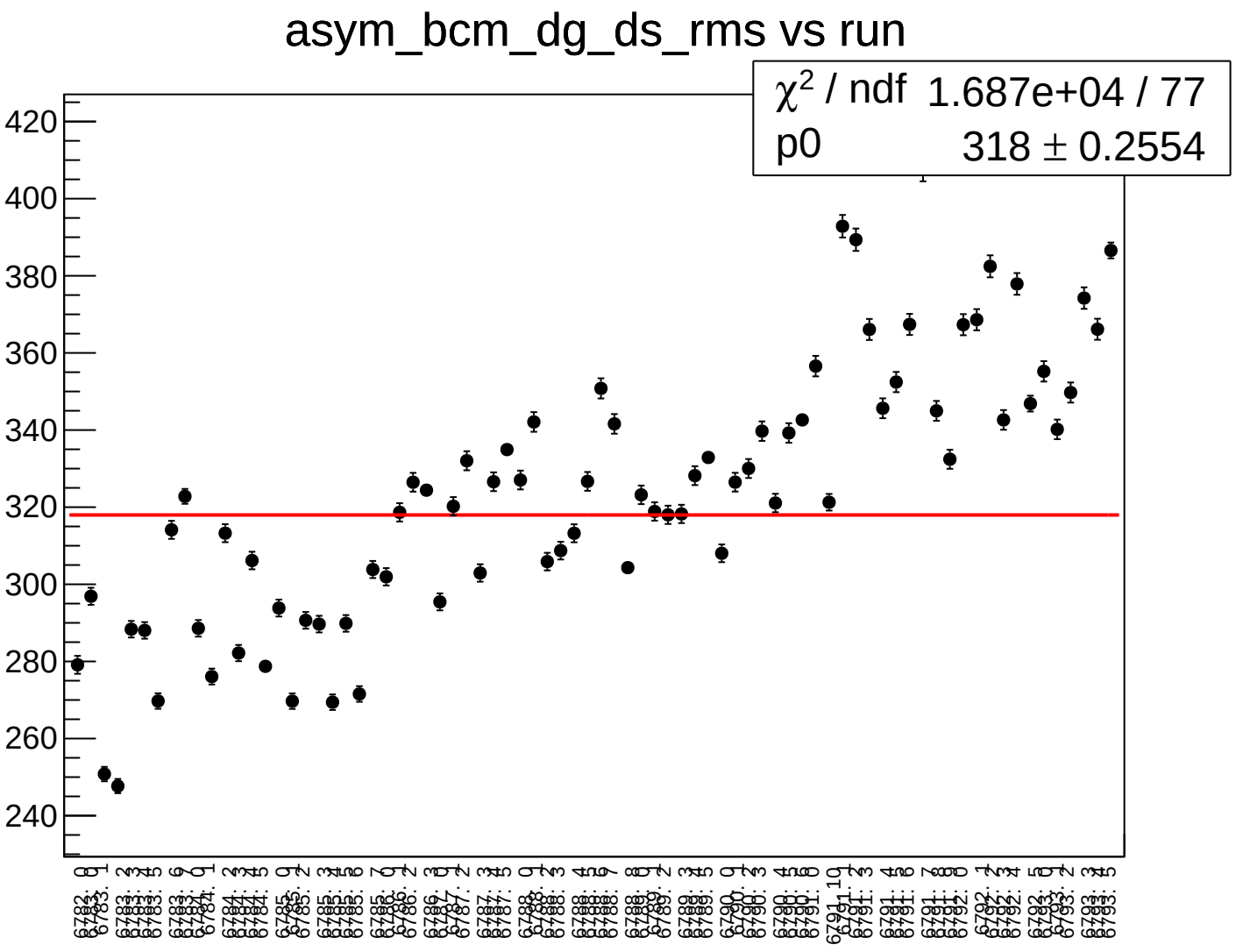

asym_bcm_dg_us_mean vs run
χ² / ndf 11.4 / 77
p0 473.1 ± 365.9
pull
Entries 78
Mean 16.97
Std Dev 52.91

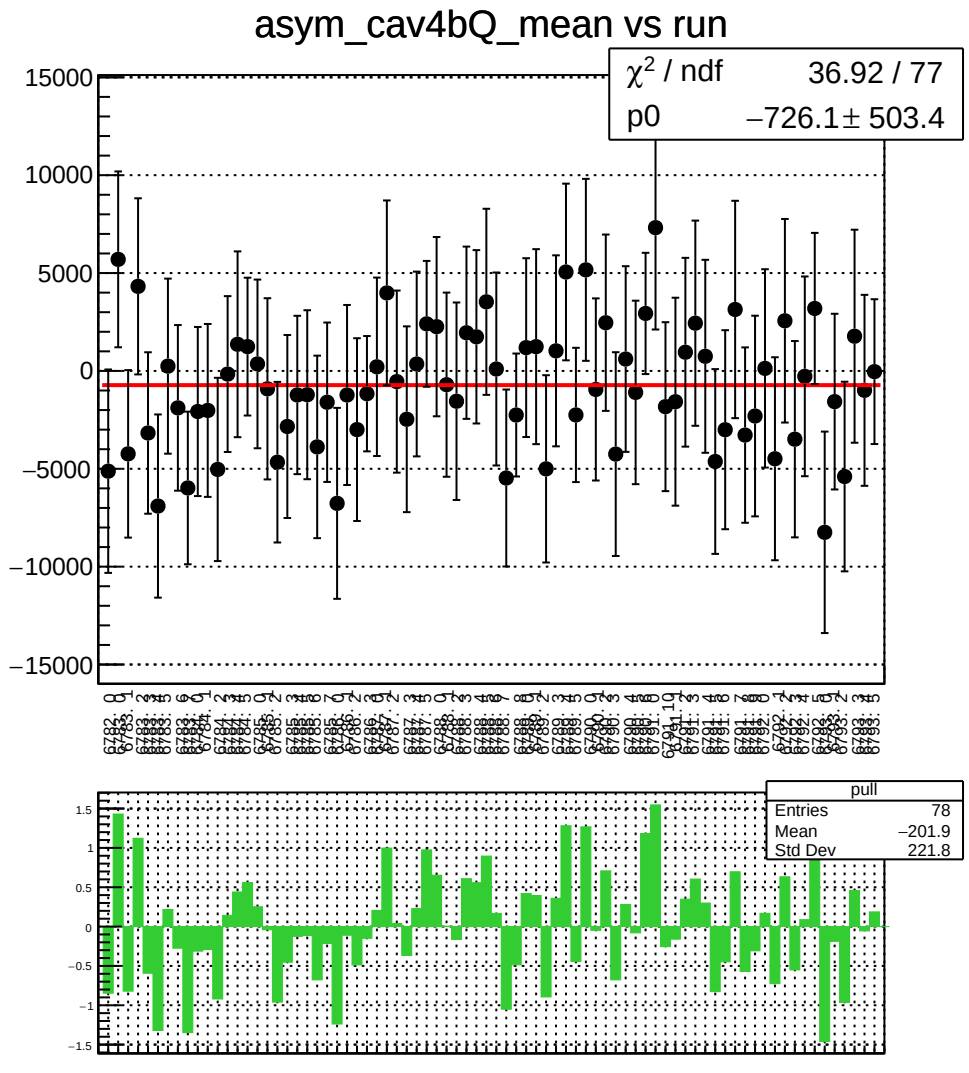

pull1D
Entries 78
Mean −0.004511
Std Dev 0.3823

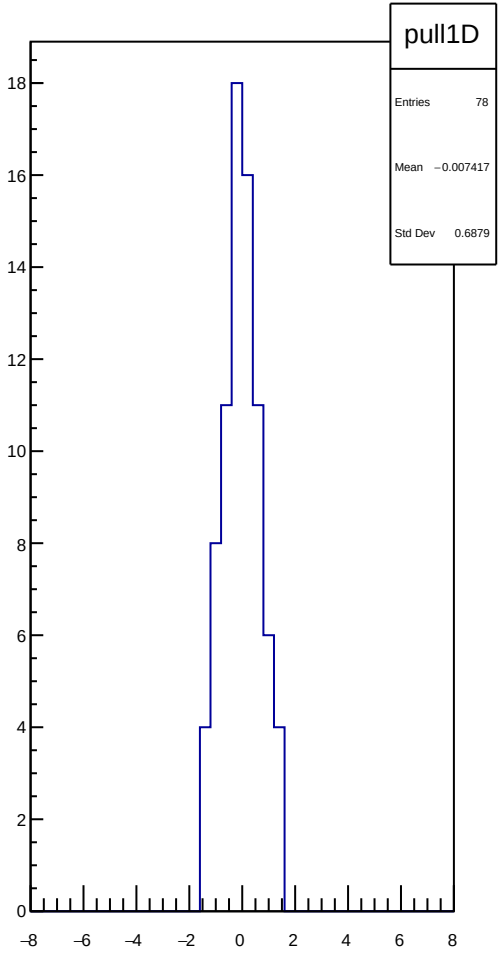

asym_bcm_dg_us_rms vs run
χ² / ndf 1.633e+04 / 77
p0 322.2 ± 0.2587
420
400
380
360
340
320
300
280
260
240

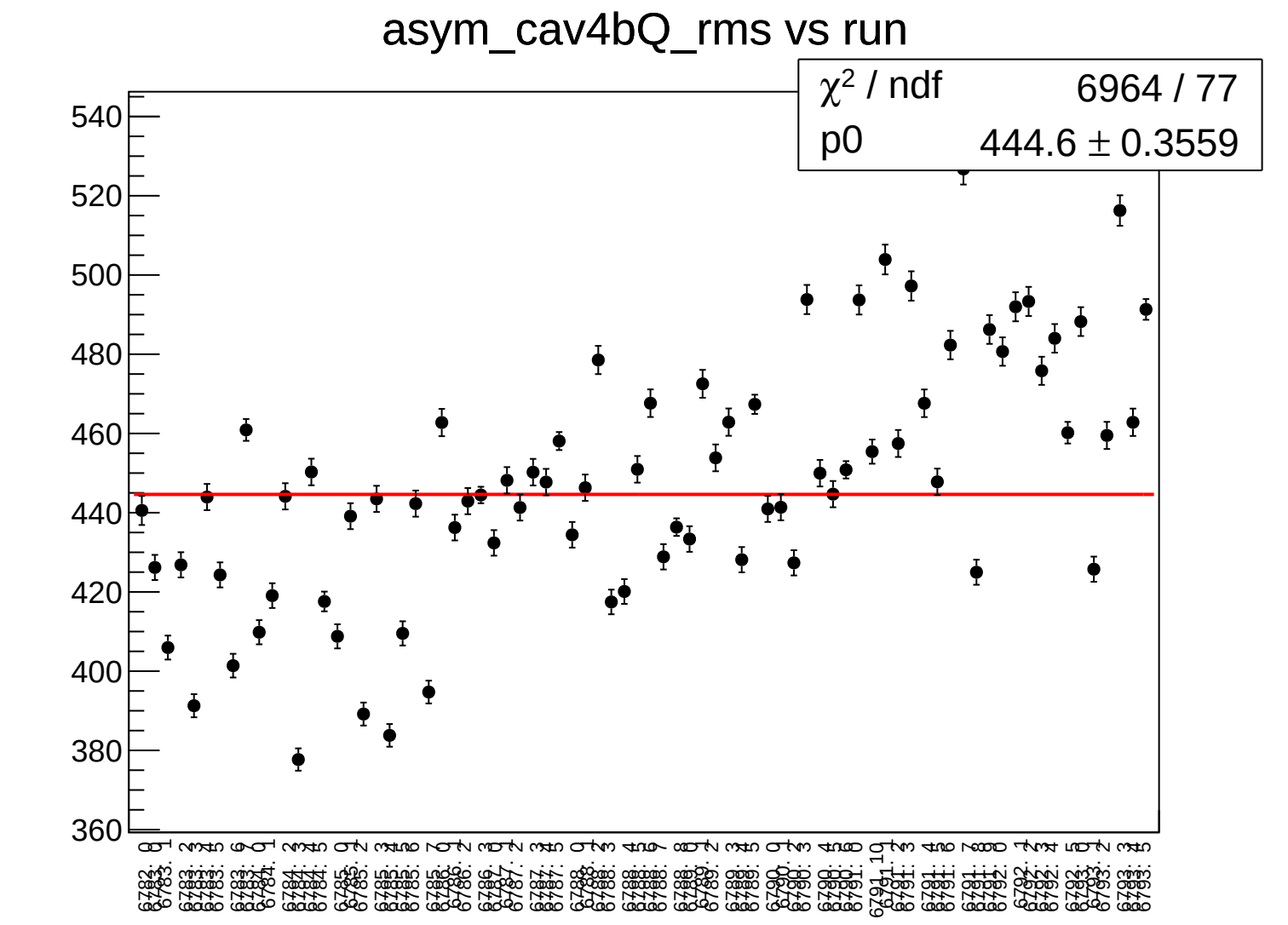

asym_bcm_dg_ds_mean vs run
χ² / ndf 12.37 / 77
p0 337.2 ± 361.1
pull
Entries 78
Mean −40.13
Std Dev 44.67

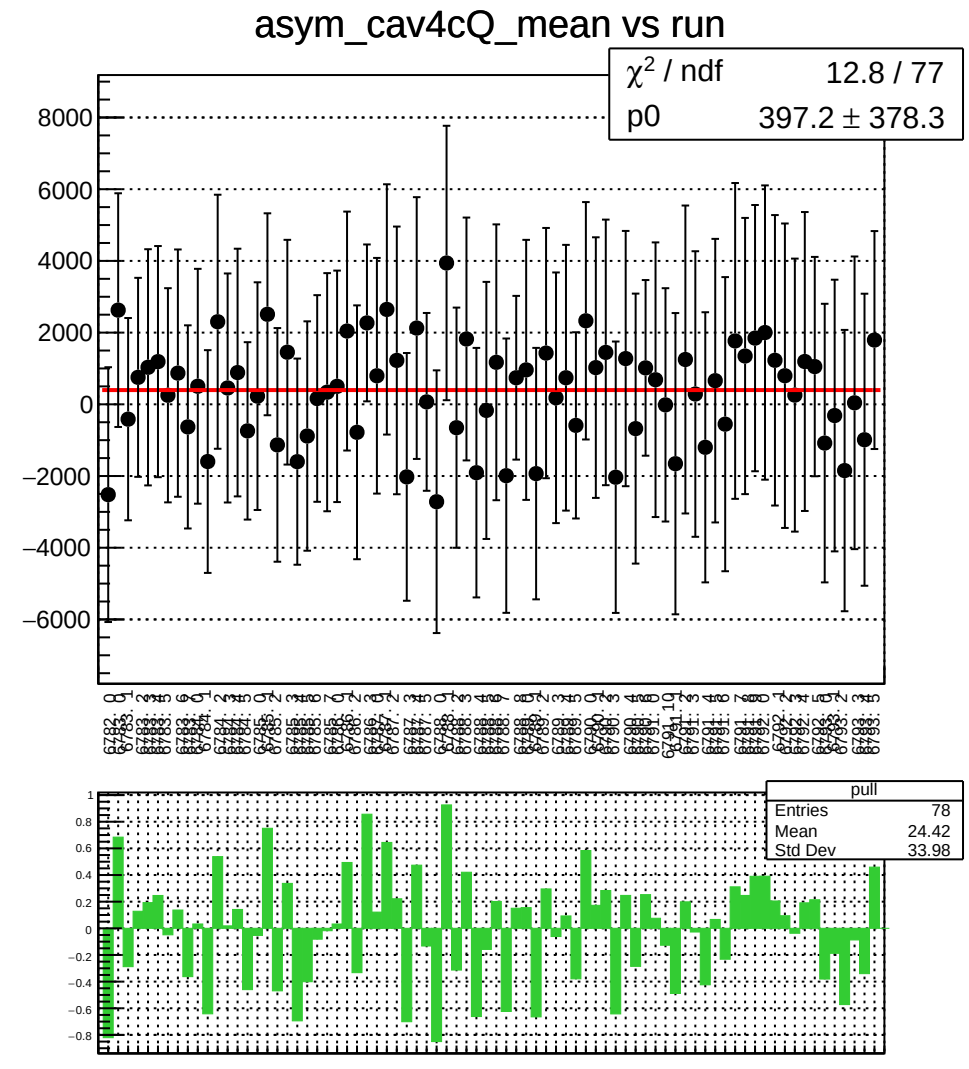

pull1D
Entries 78
Mean −0.004911
Std Dev 0.3983

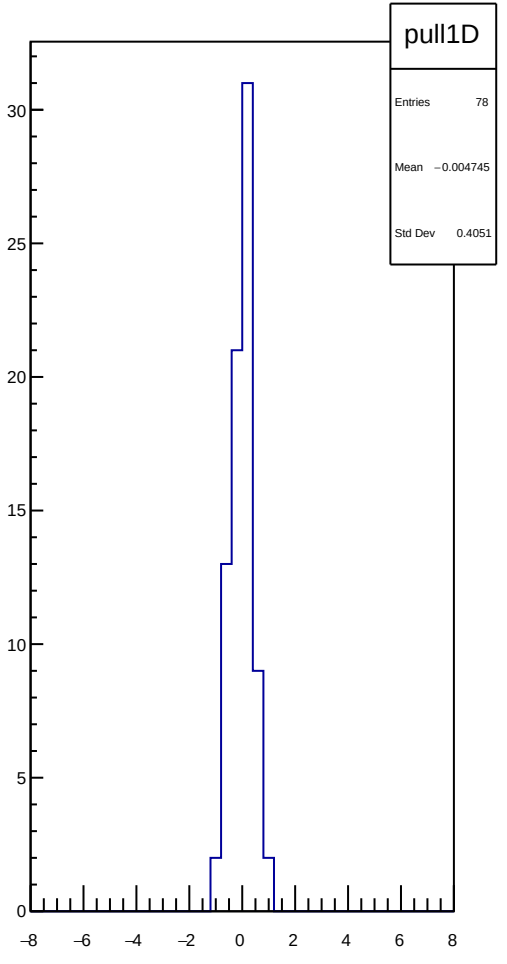

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 1.687e+04 / 77
p0 318 ± 0.2554
420
400
380
360
340
320
300
280
260
240

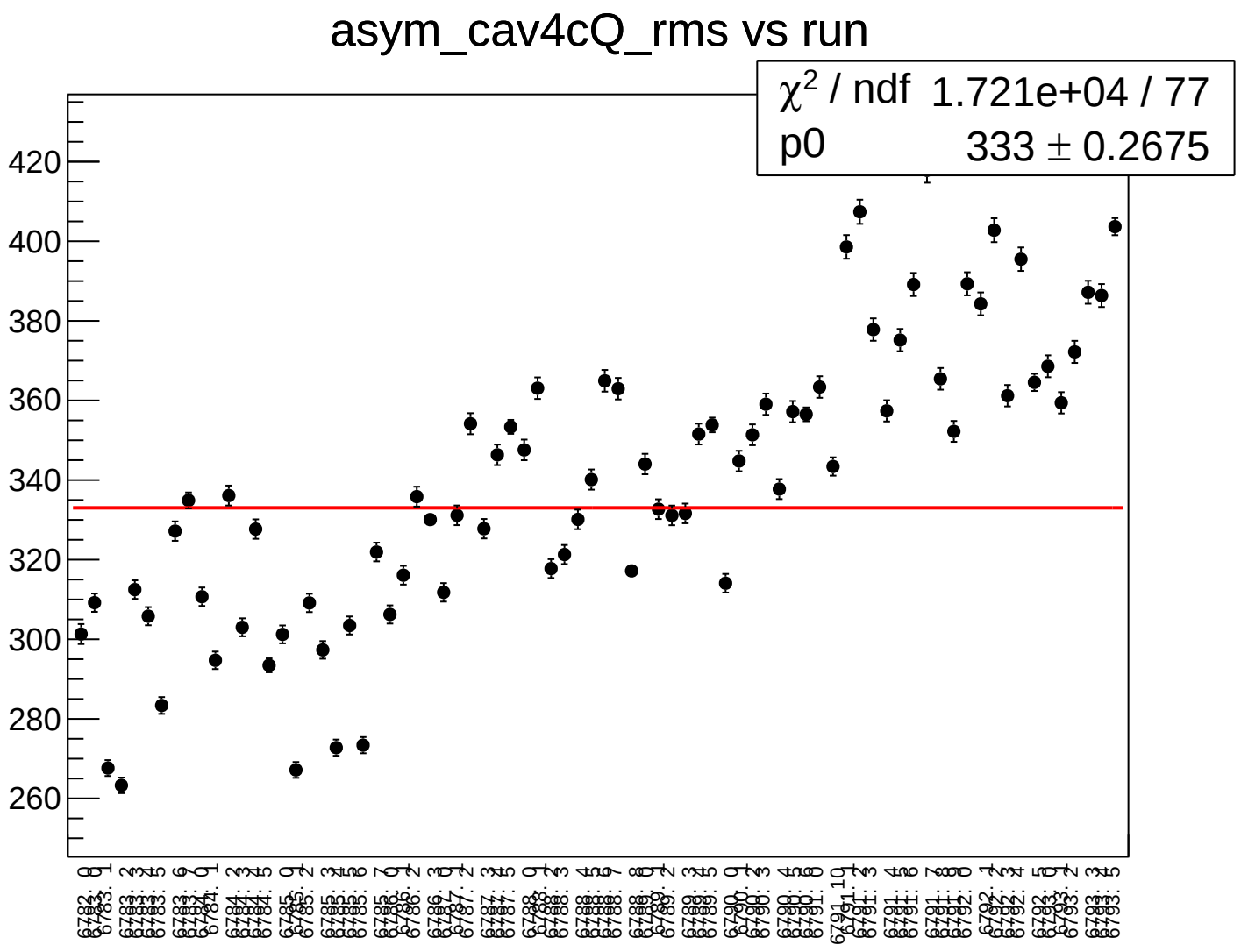

asym_cav4bQ_mean vs run
χ² / ndf 36.92 / 77
p0 −726.1 ± 503.4
pull
Entries 78
Mean −201.9
Std Dev 221.8

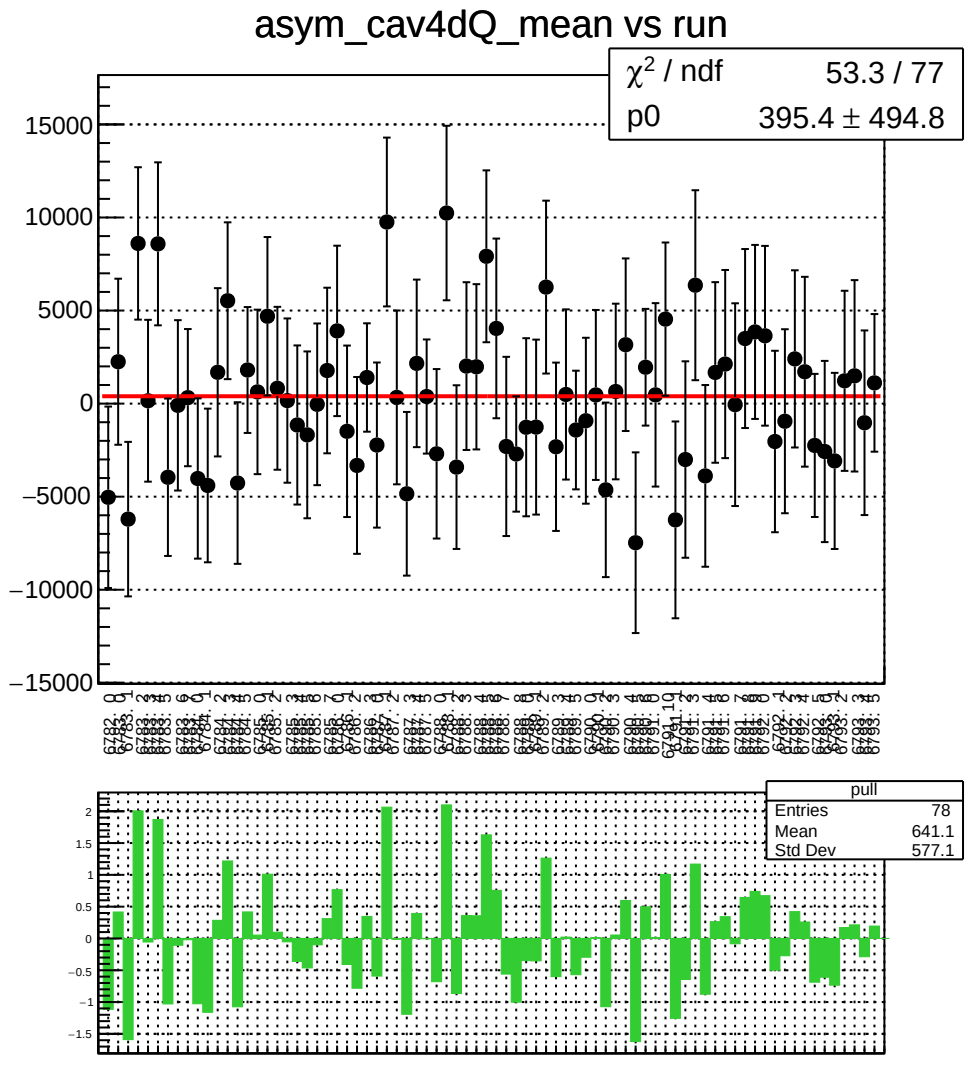

pull1D
Entries 78
Mean −0.007417
Std Dev 0.6879

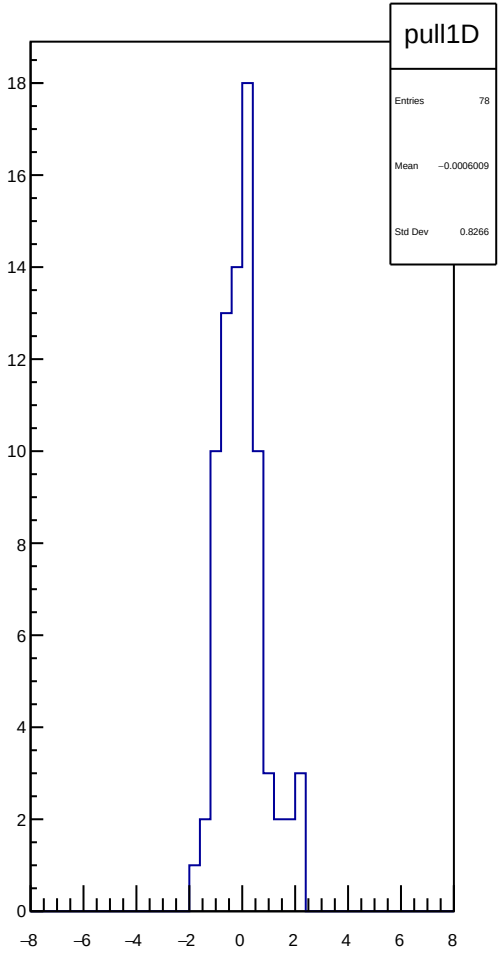

asym_cav4bQ_rms vs run
χ² / ndf 6964 / 77
p0 444.6 ± 0.3559
540
520
500
480
460
440
420
400
380
360

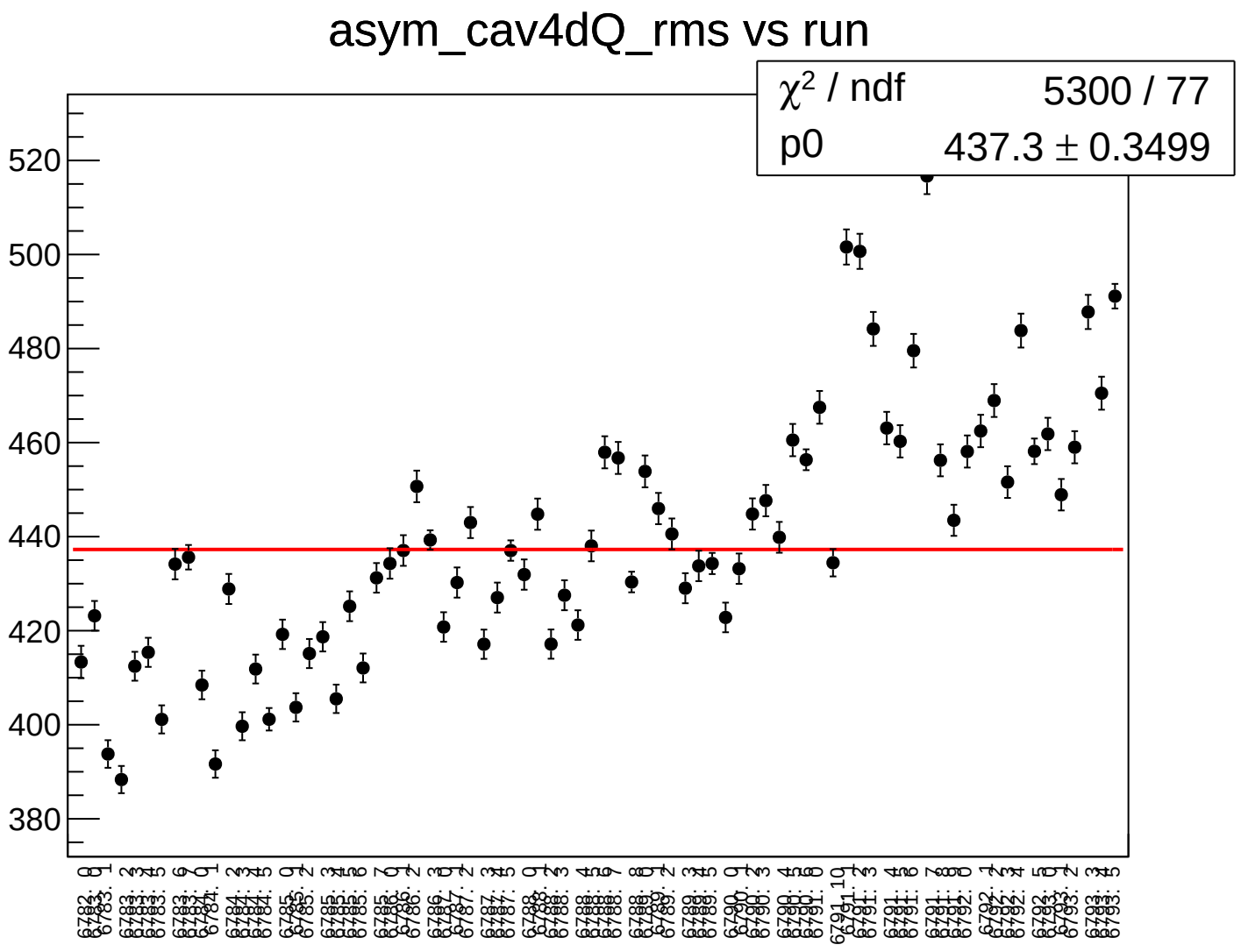

asym_cav4cQ_mean vs run
χ² / ndf 12.8 / 77
p0 397.2 ± 378.3
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 78
Mean 24.42
Std Dev 33.98
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

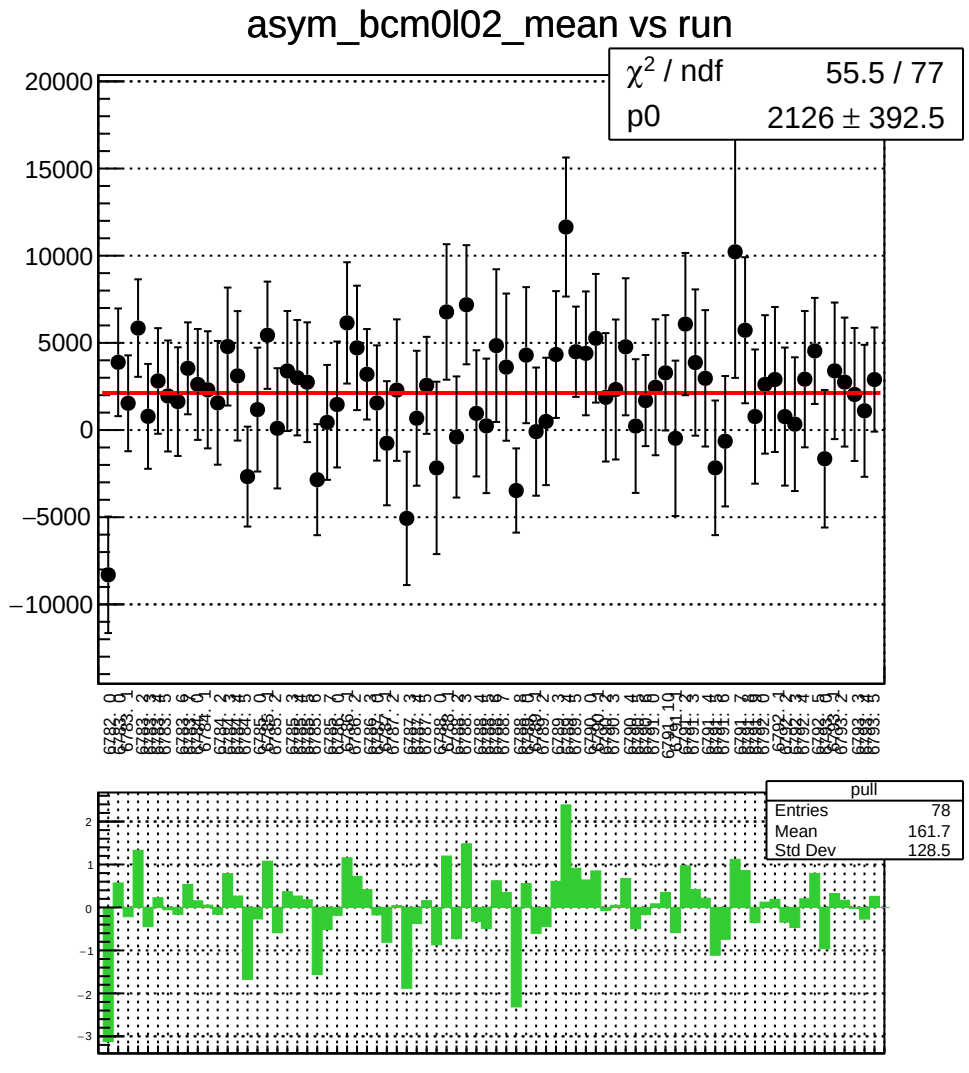

pull1D
Entries 78
Mean −0.004745
Std Dev 0.4051
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

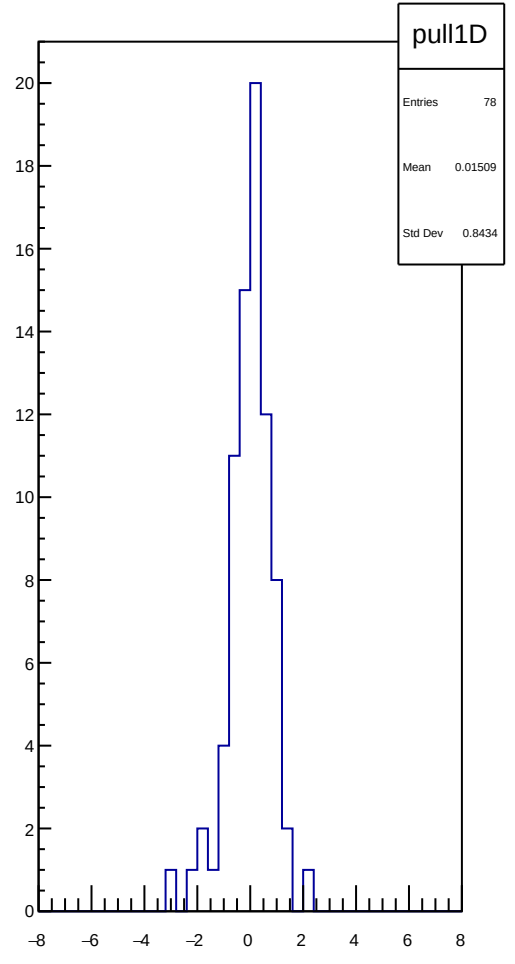

asym_cav4cQ_rms vs run
χ² / ndf 1.721e+04 / 77
p0 333 ± 0.2675
420
400
380
360
340
320
300
280
260

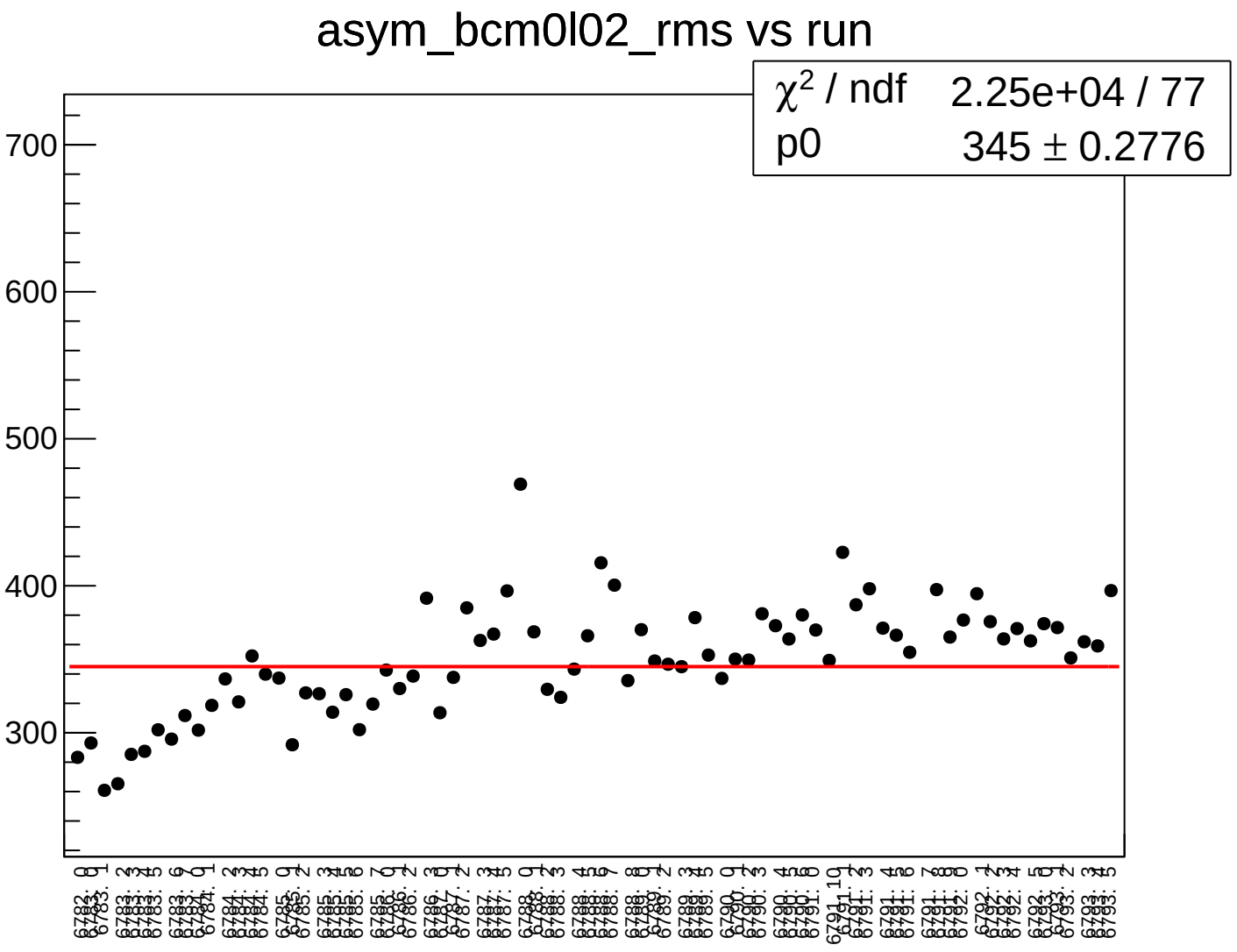

asym_cav4dQ_mean vs run
χ² / ndf 53.3 / 77
p0 395.4 ± 494.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean 641.1
Std Dev 577.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

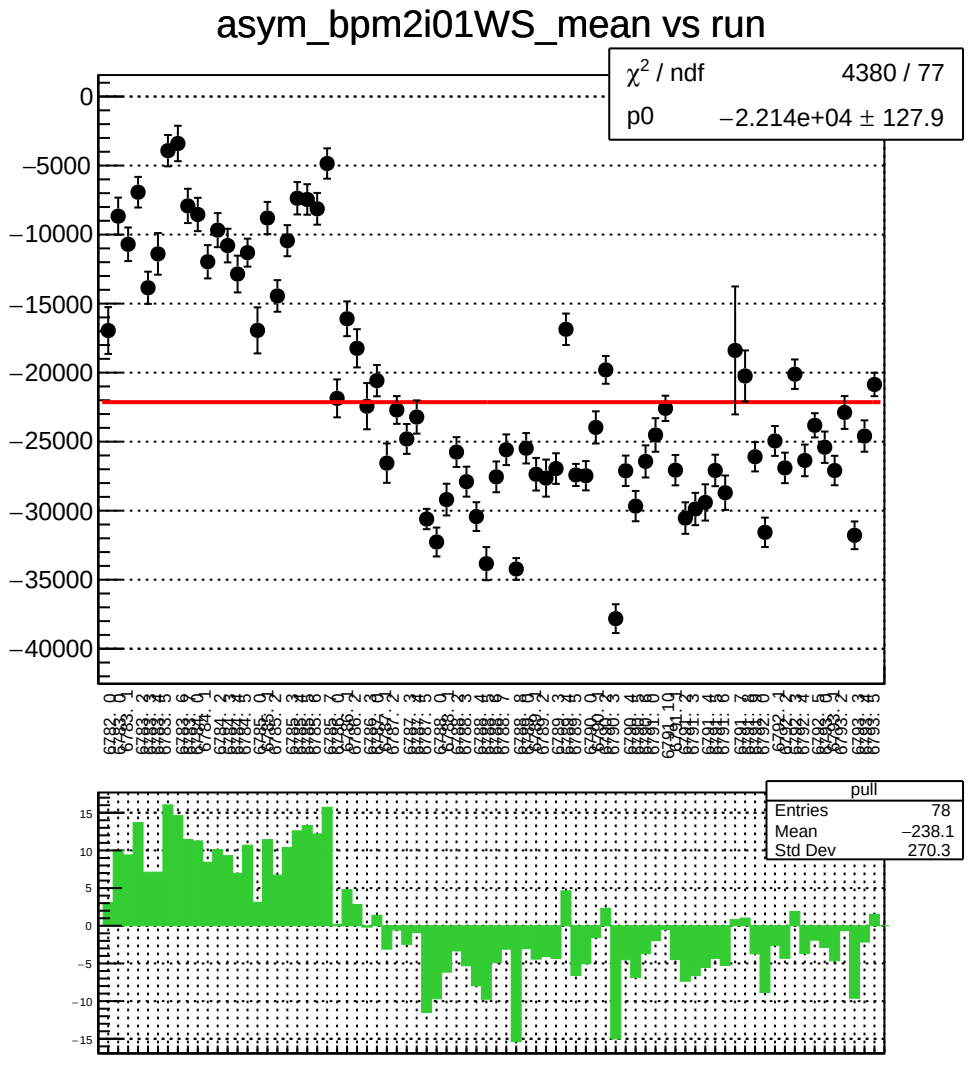

pull1D
Entries 78
Mean −0.0006009
Std Dev 0.8266
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

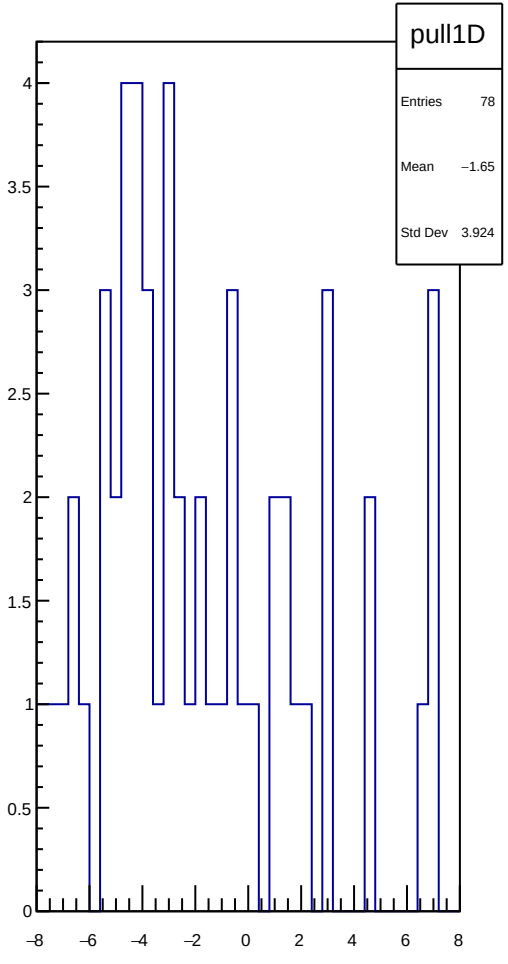

asym_cav4dQ_rms vs run
χ² / ndf 5300 / 77
p0 437.3 ± 0.3499
520
500
480
460
440
420
400
380

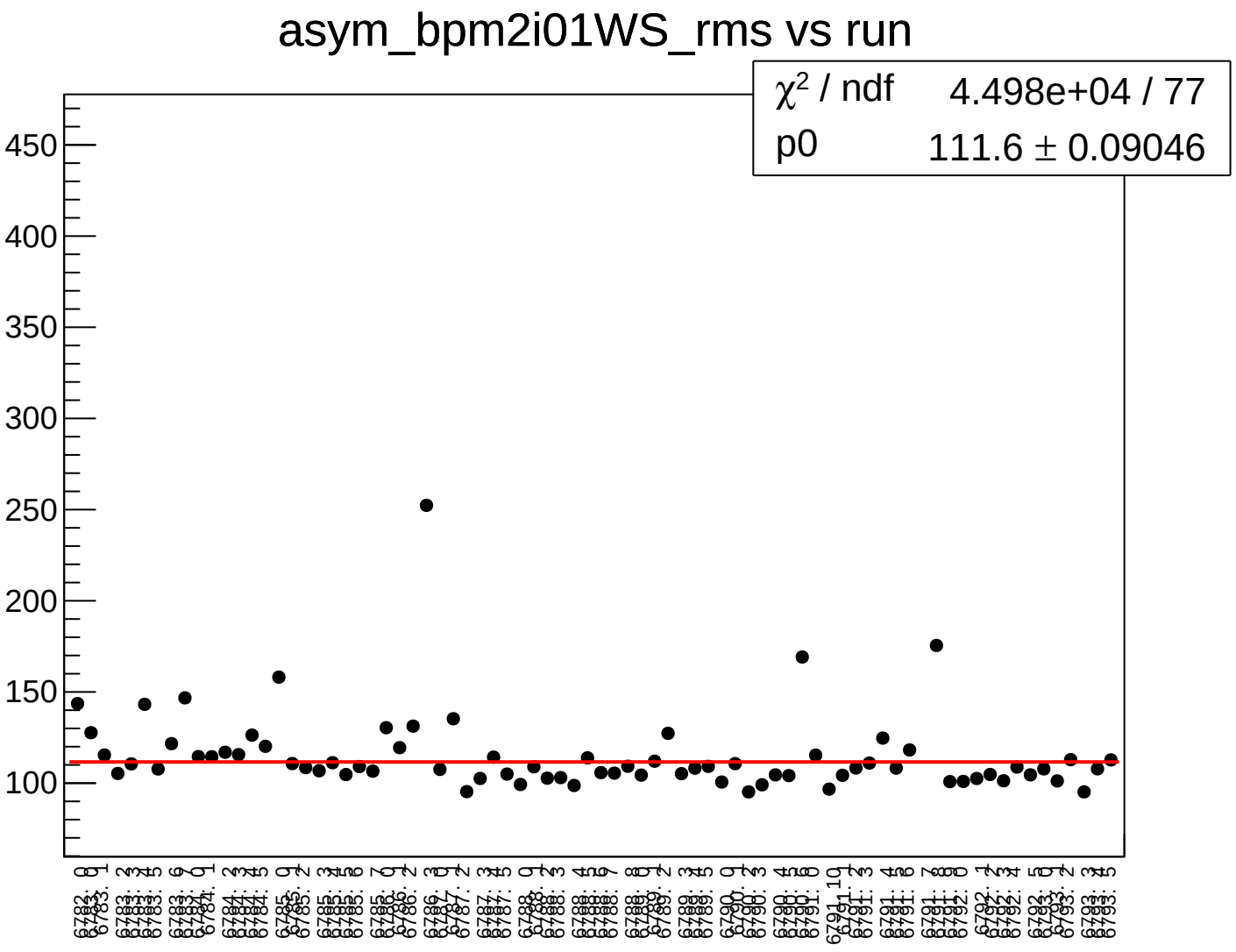

asym_bcm0l02_mean vs run
χ² / ndf 55.5 / 77
p0 2126 ± 392.5
pull
Entries 78
Mean 161.7
Std Dev 128.5

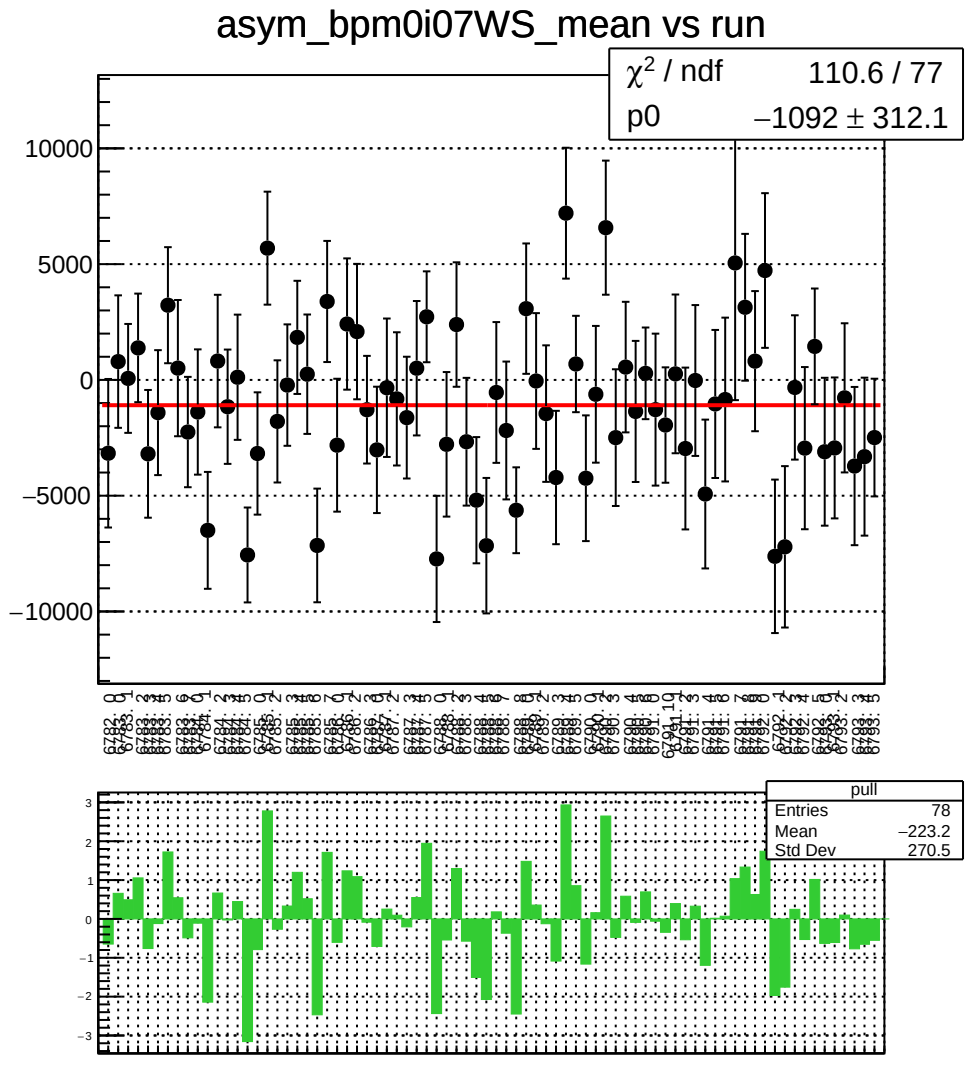

pull1D
Entries 78
Mean 0.01509
Std Dev 0.8434

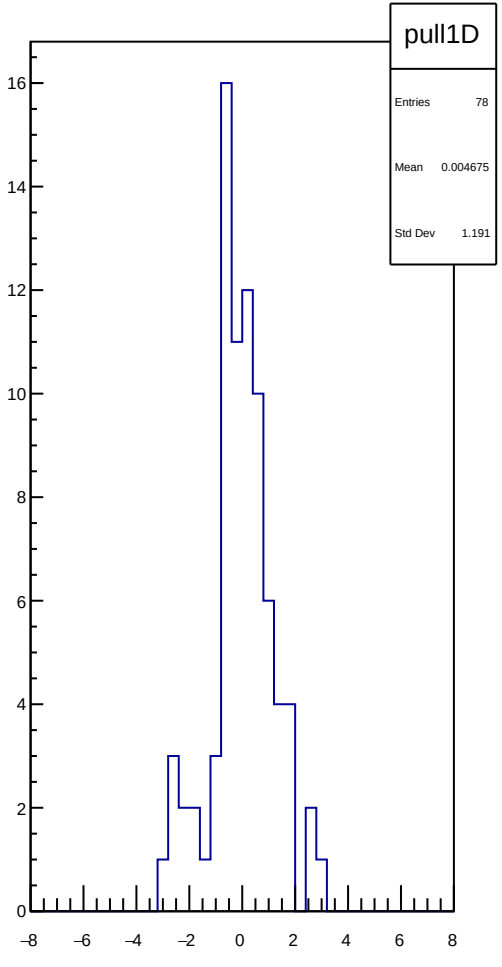

asym_bcm0l02_rms vs run
χ² / ndf 2.25e+04 / 77
p0 345 ± 0.2776
700
600
500
400
300

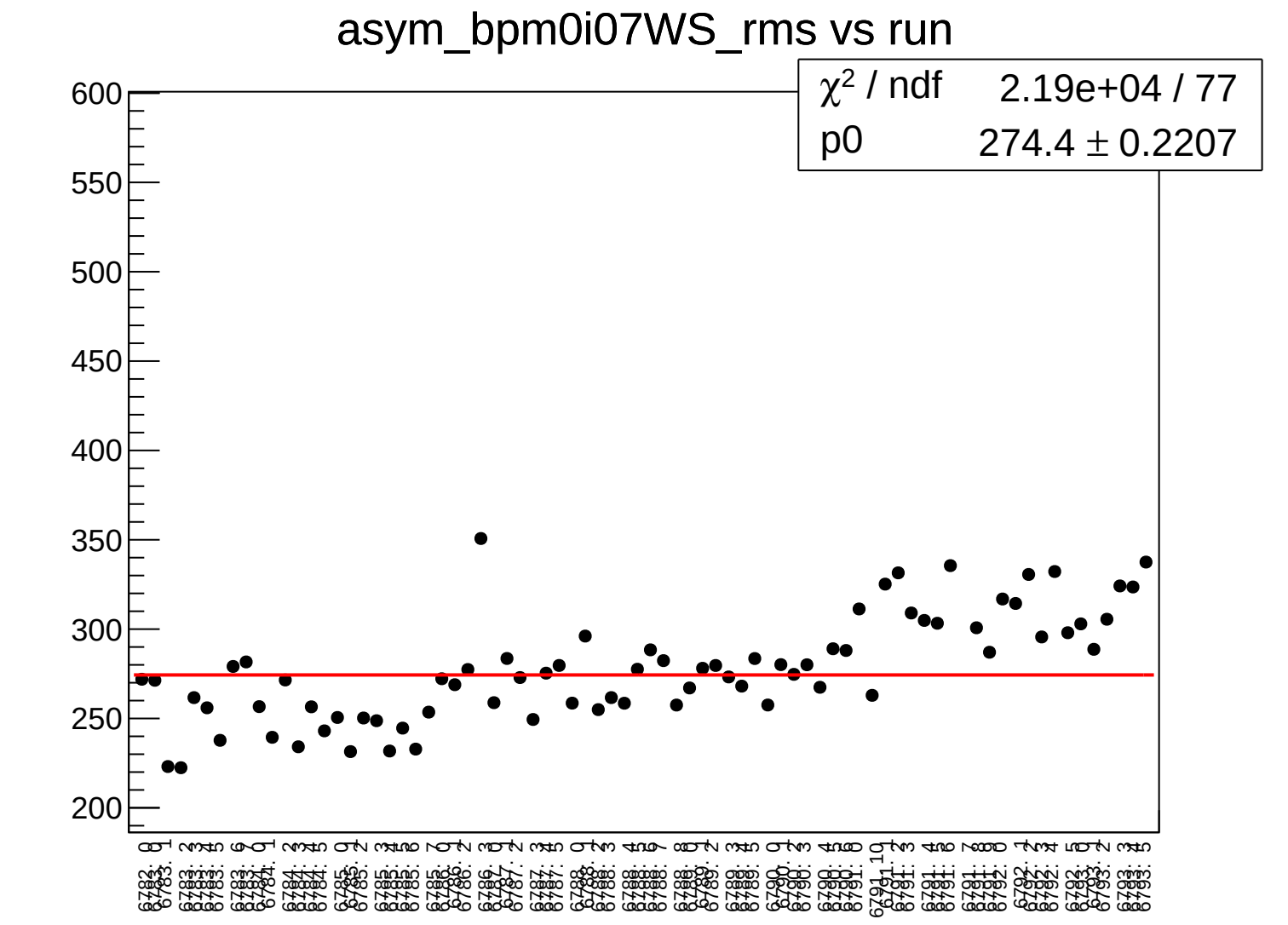

asym_bpm2i01WS_mean vs run
χ² / ndf 4380 / 77
p0 −2.214e+04 ± 127.9
pull
Entries 78
Mean −238.1
Std Dev 270.3

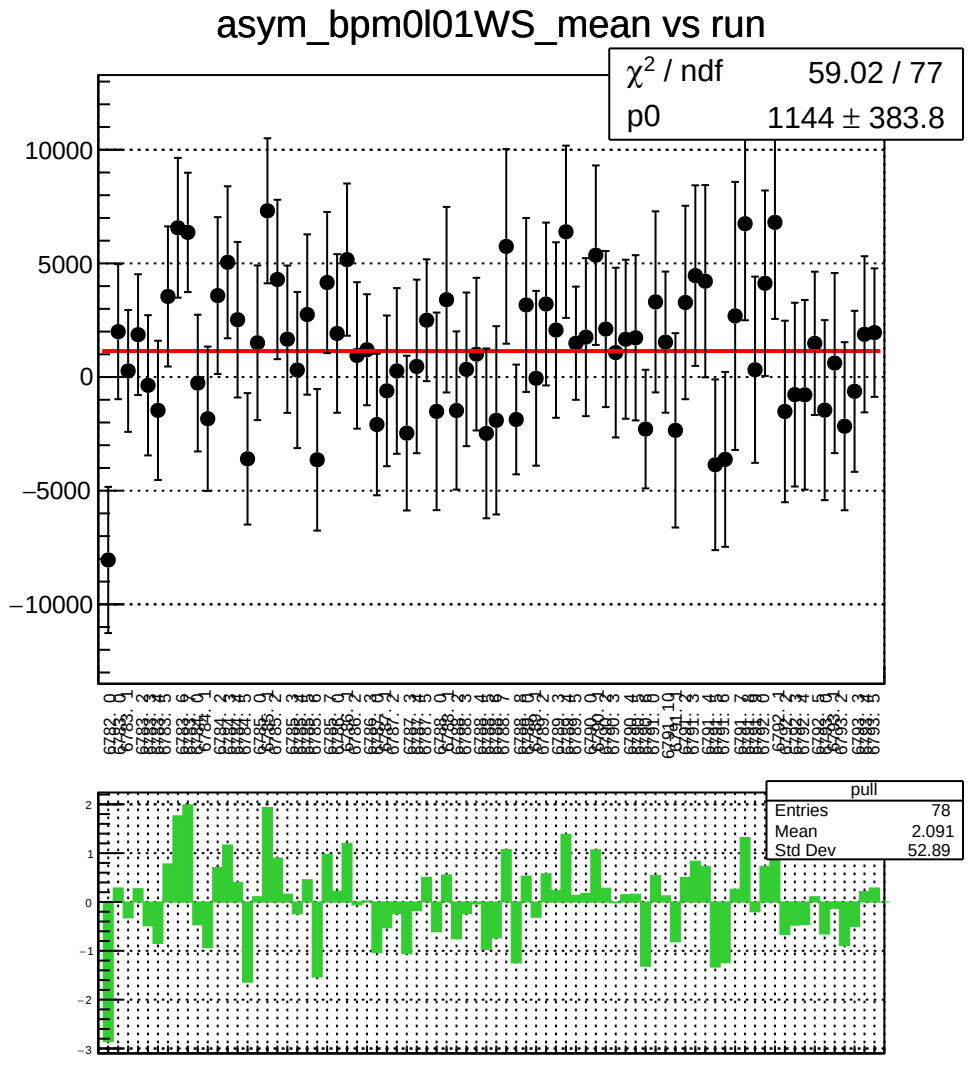

pull1D
Entries 78
Mean −1.65
Std Dev 3.924

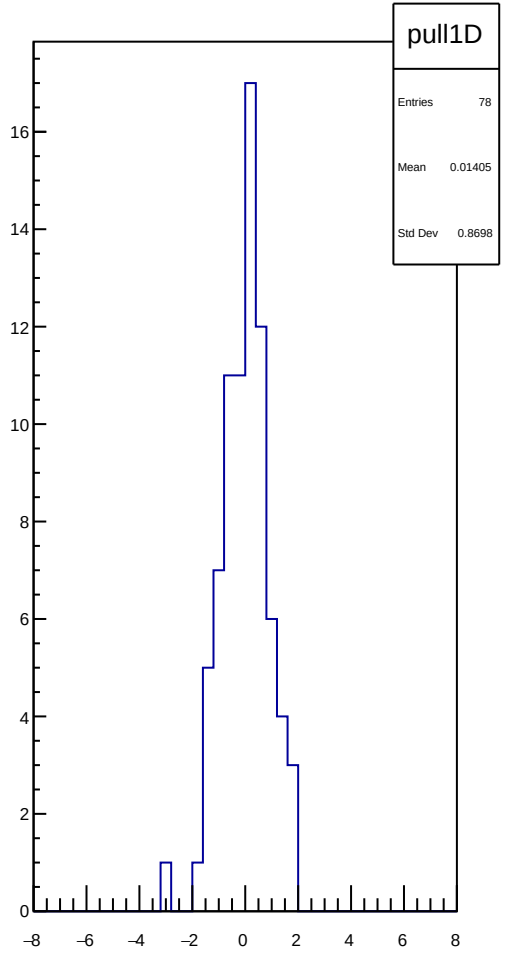

asym_bpm2i01WS_rms vs run
χ^2 / ndf 4.498e+04 / 77
p0 111.6 ± 0.09046
450
400
350
300
250
200
150
100

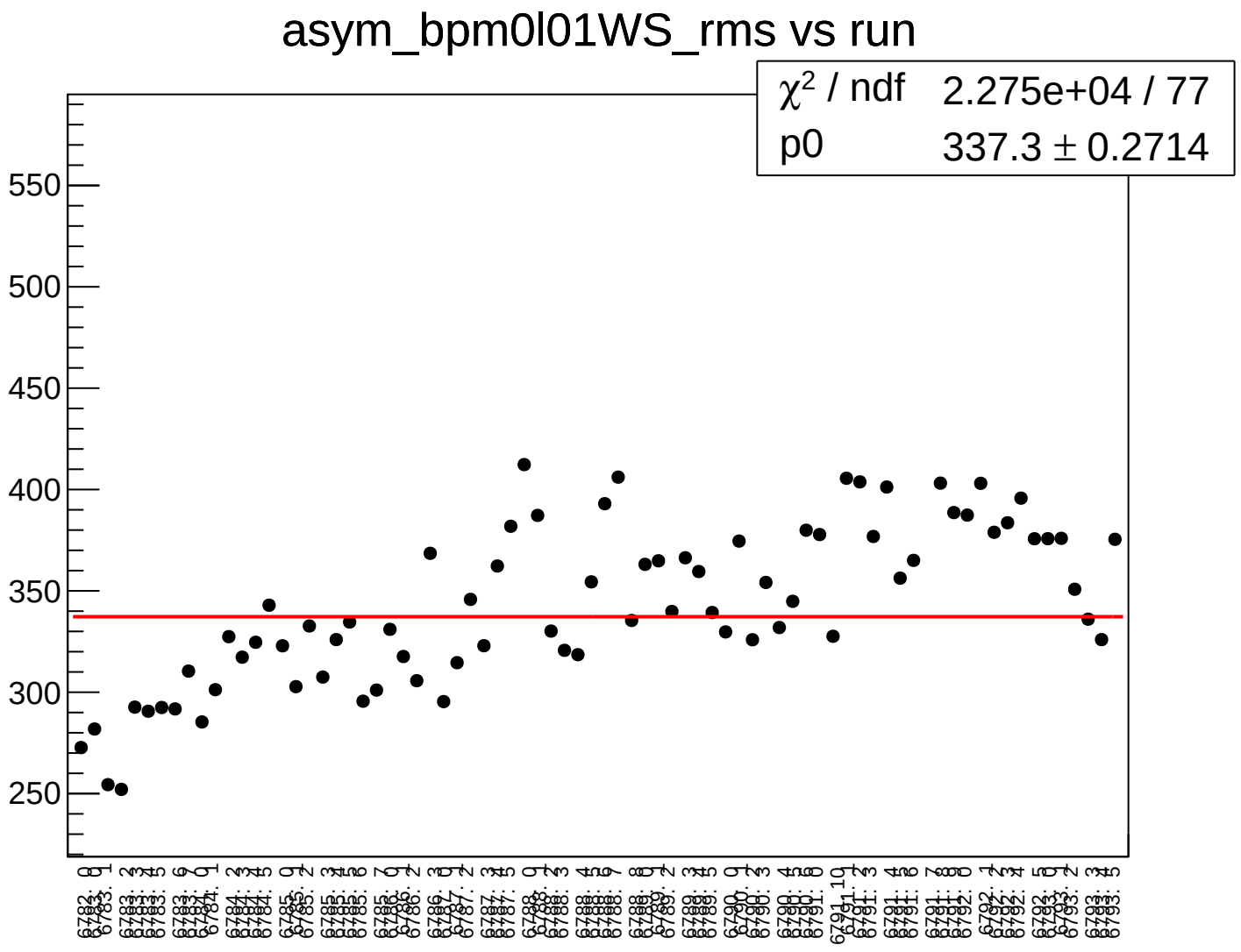

asym_bpm0i07WS_mean vs run
χ² / ndf 110.6 / 77
p0 −1092 ± 312.1
pull
Entries 78
Mean −223.2
Std Dev 270.5

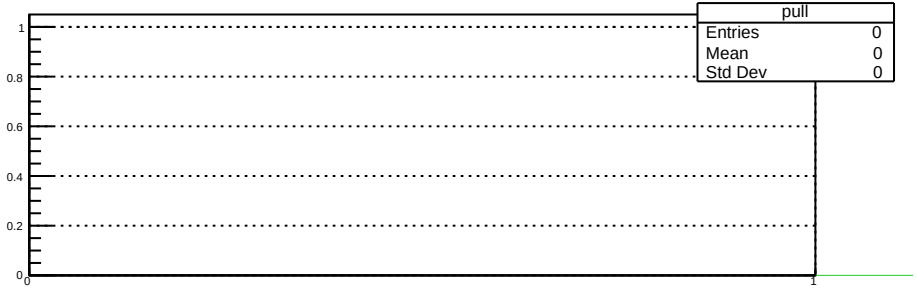

pull1D
Entries 78
Mean 0.004675
Std Dev 1.191

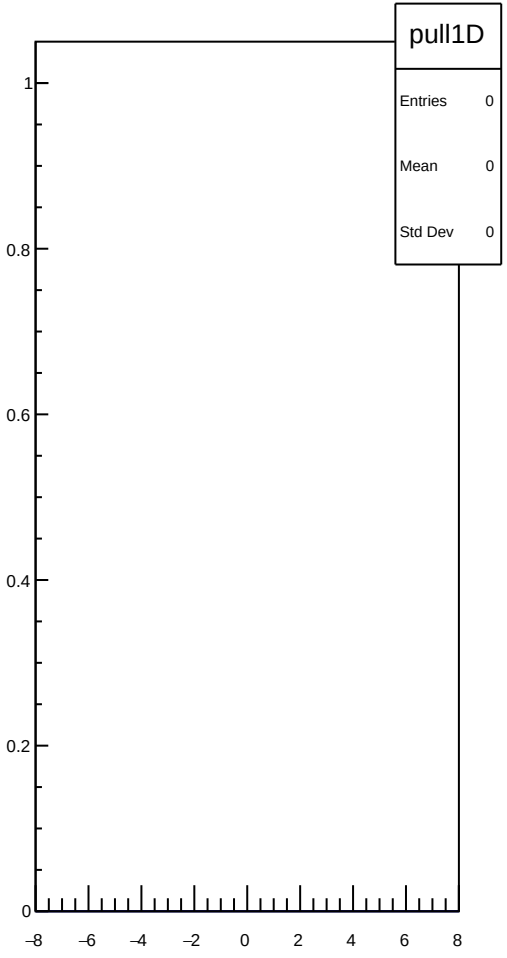

asym_bpm0i07WS_rms vs run
χ^2 / ndf 2.19e+04 / 77
p0 274.4 ± 0.2207
600
550
500
450
400
350
300
250
200

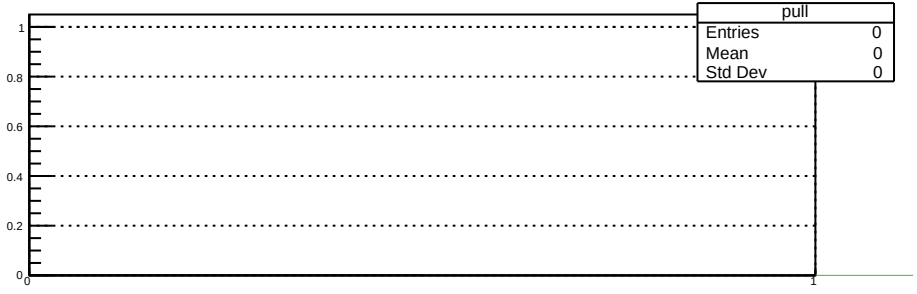

asym_bpm0l01WS_mean vs run
χ^2 / ndf 59.02 / 77
p0 1144 ± 383.8
10000
5000
0
−5000
−10000
pull
Entries 78
Mean 2.091
Std Dev 52.89
2
1
0
−1
−2
−3

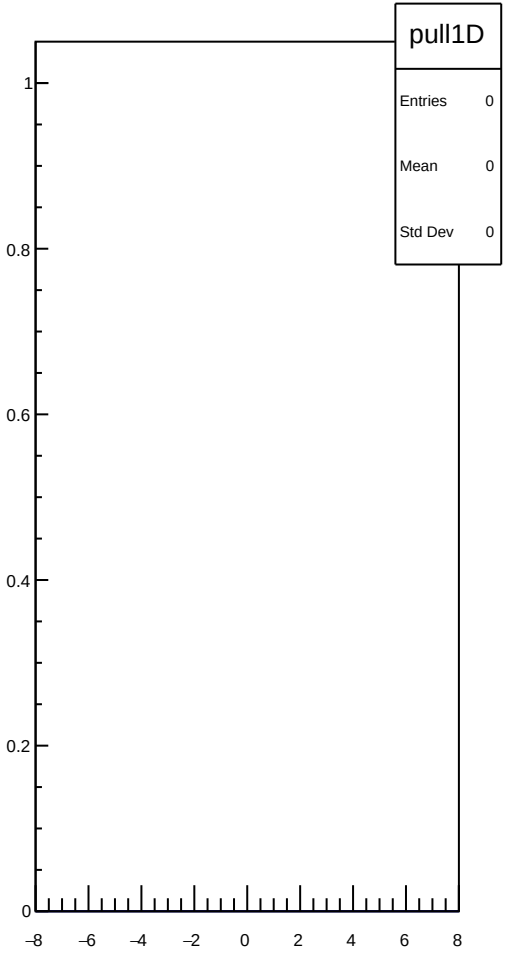

pull1D
Entries 78
Mean 0.01405
Std Dev 0.8698
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

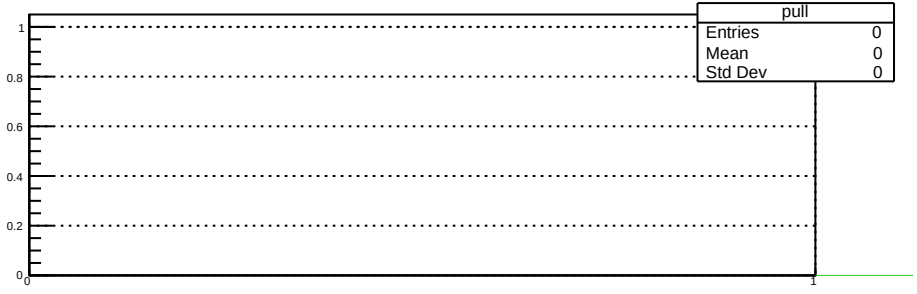

asym_bpm0l01WS_rms vs run
χ² / ndf 2.275e+04 / 77
p0 337.3 ± 0.2714
550
500
450
400
350
300
250

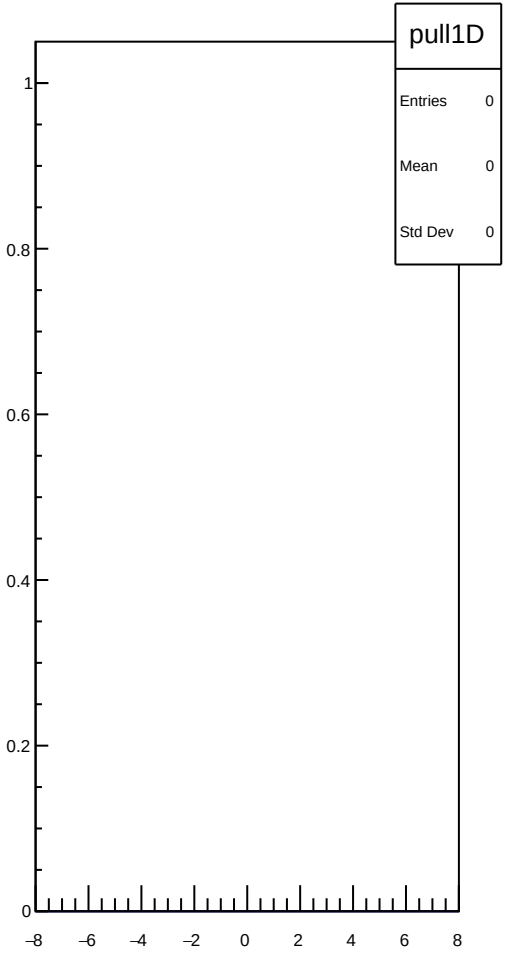

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

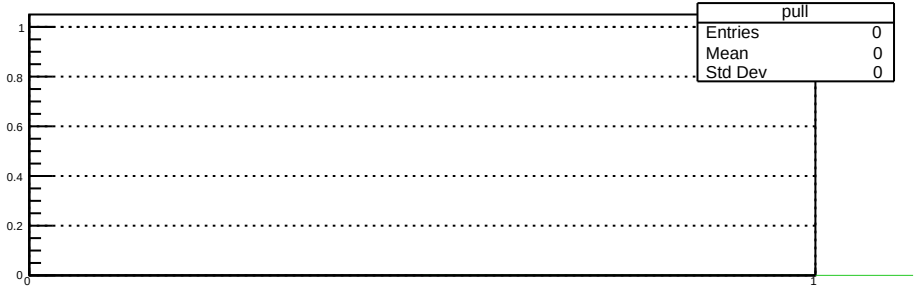

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

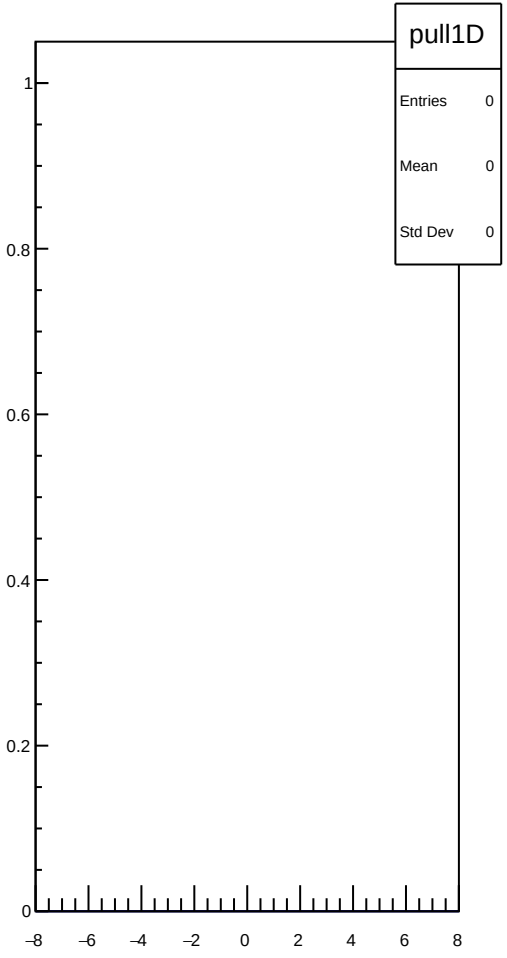

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

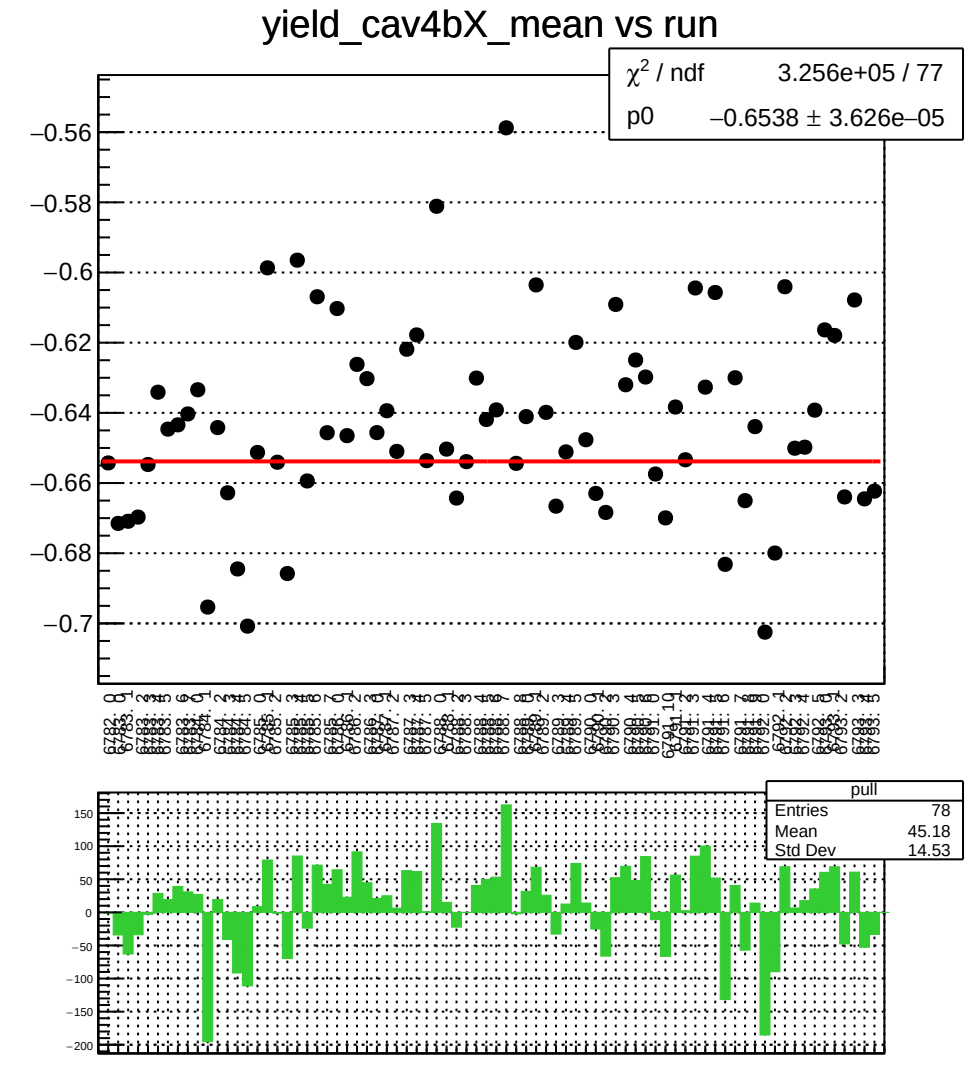

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

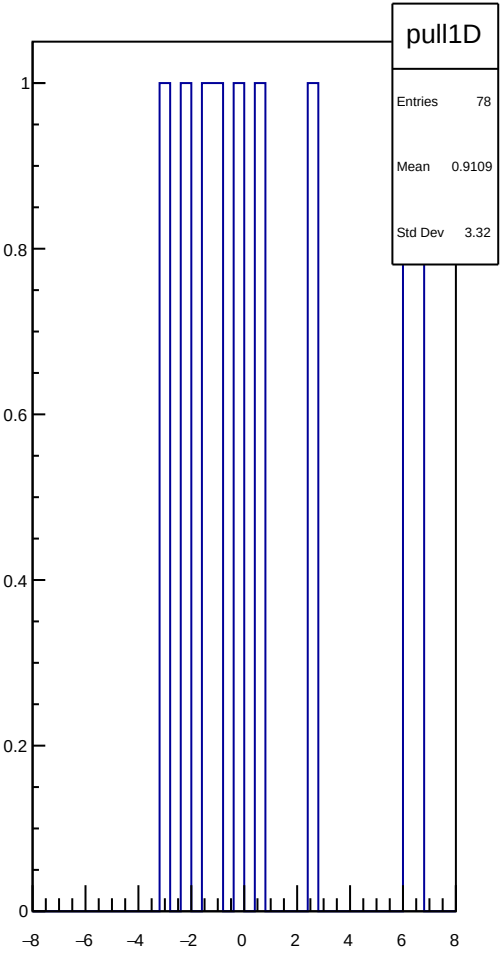

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

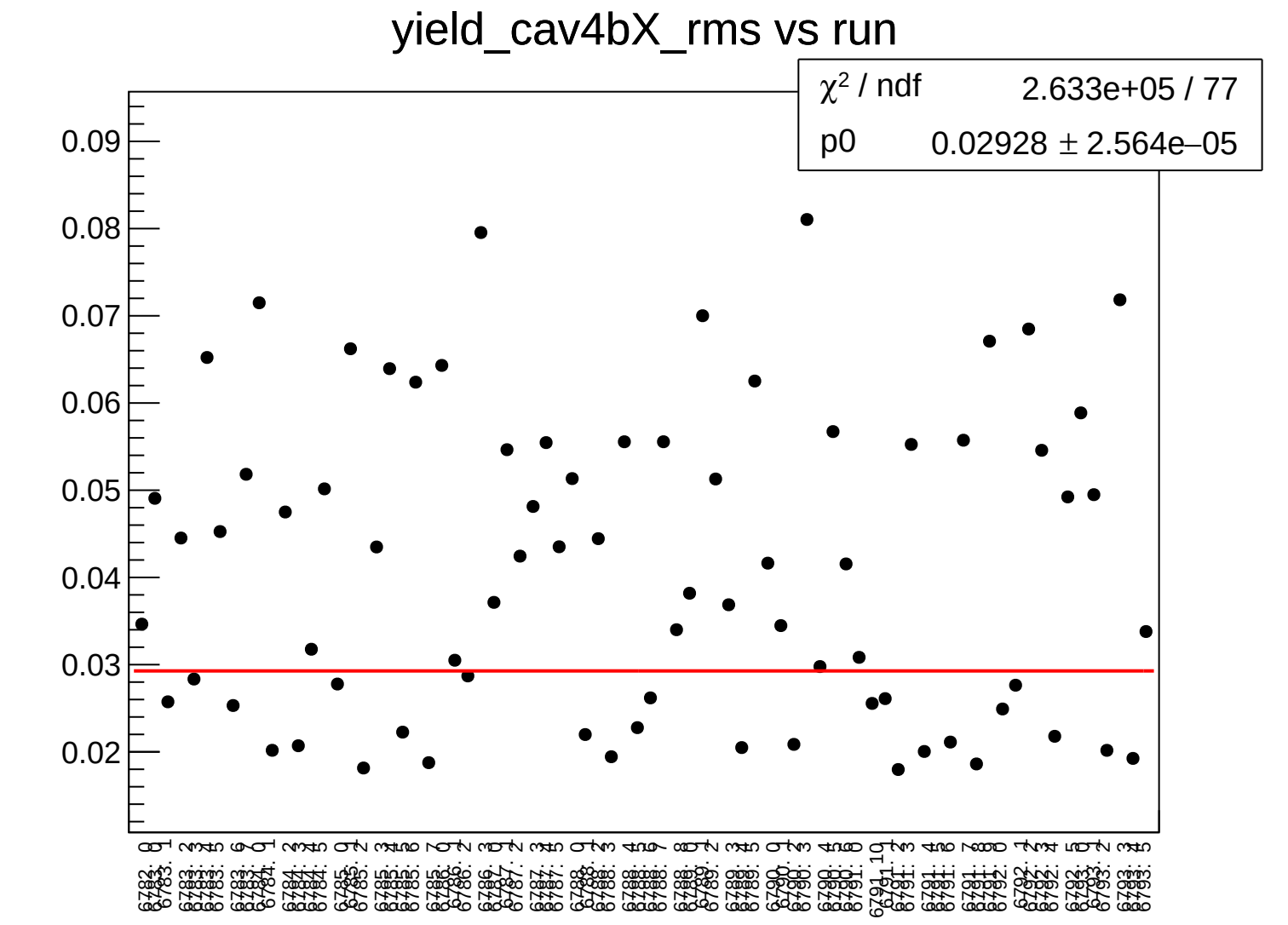

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

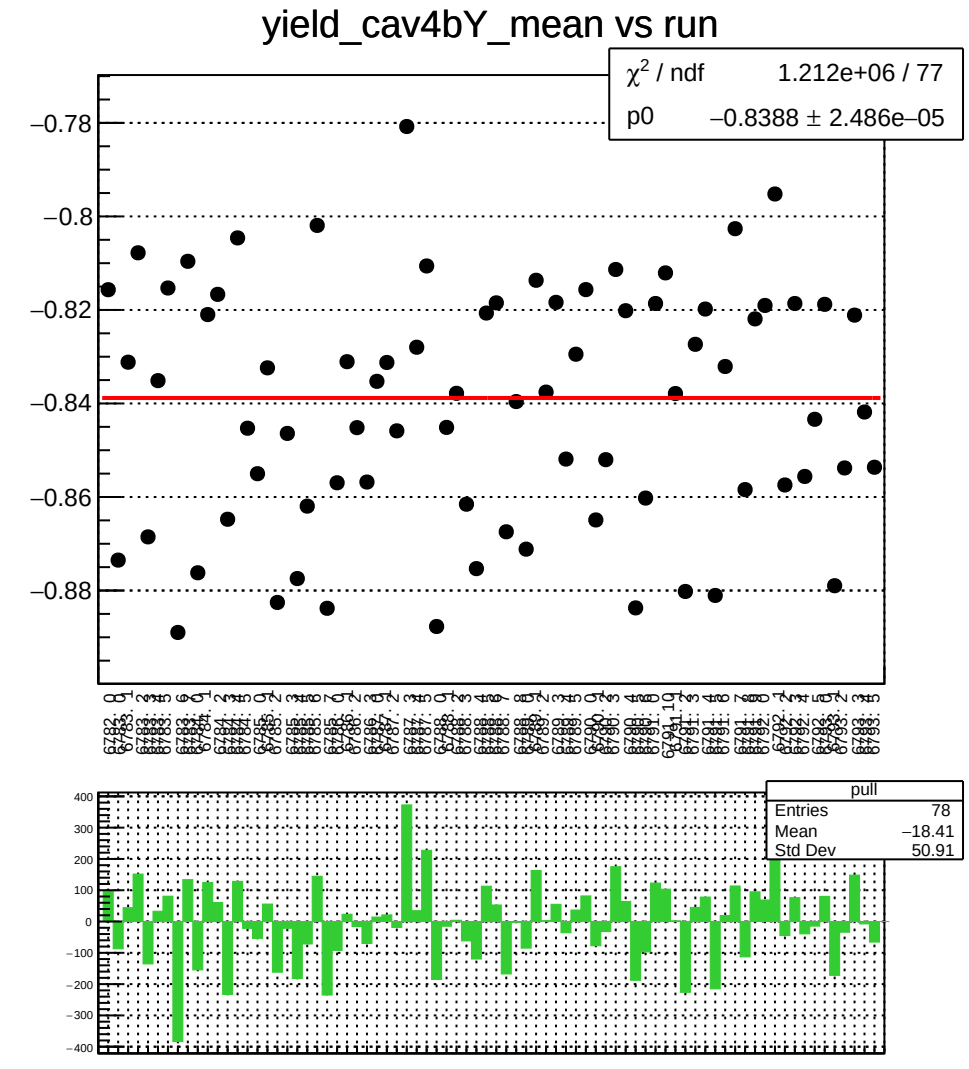

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

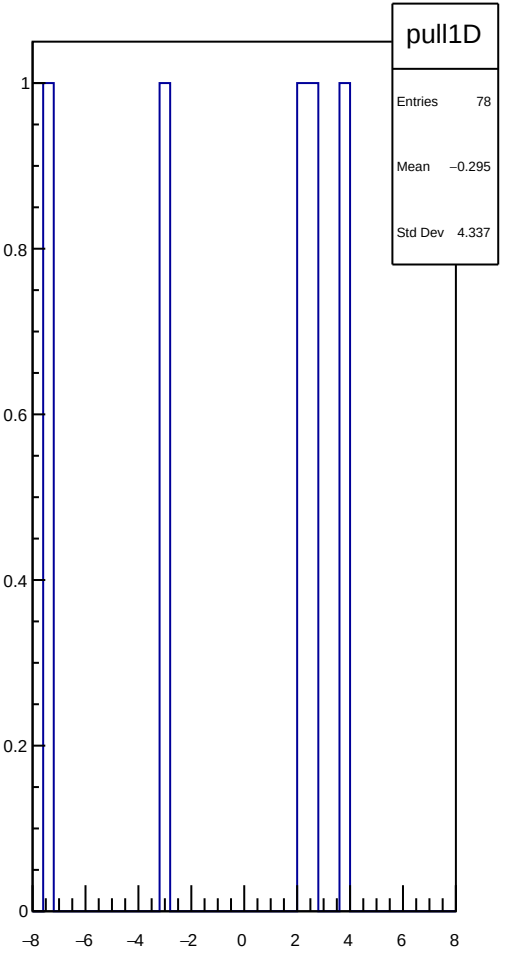

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

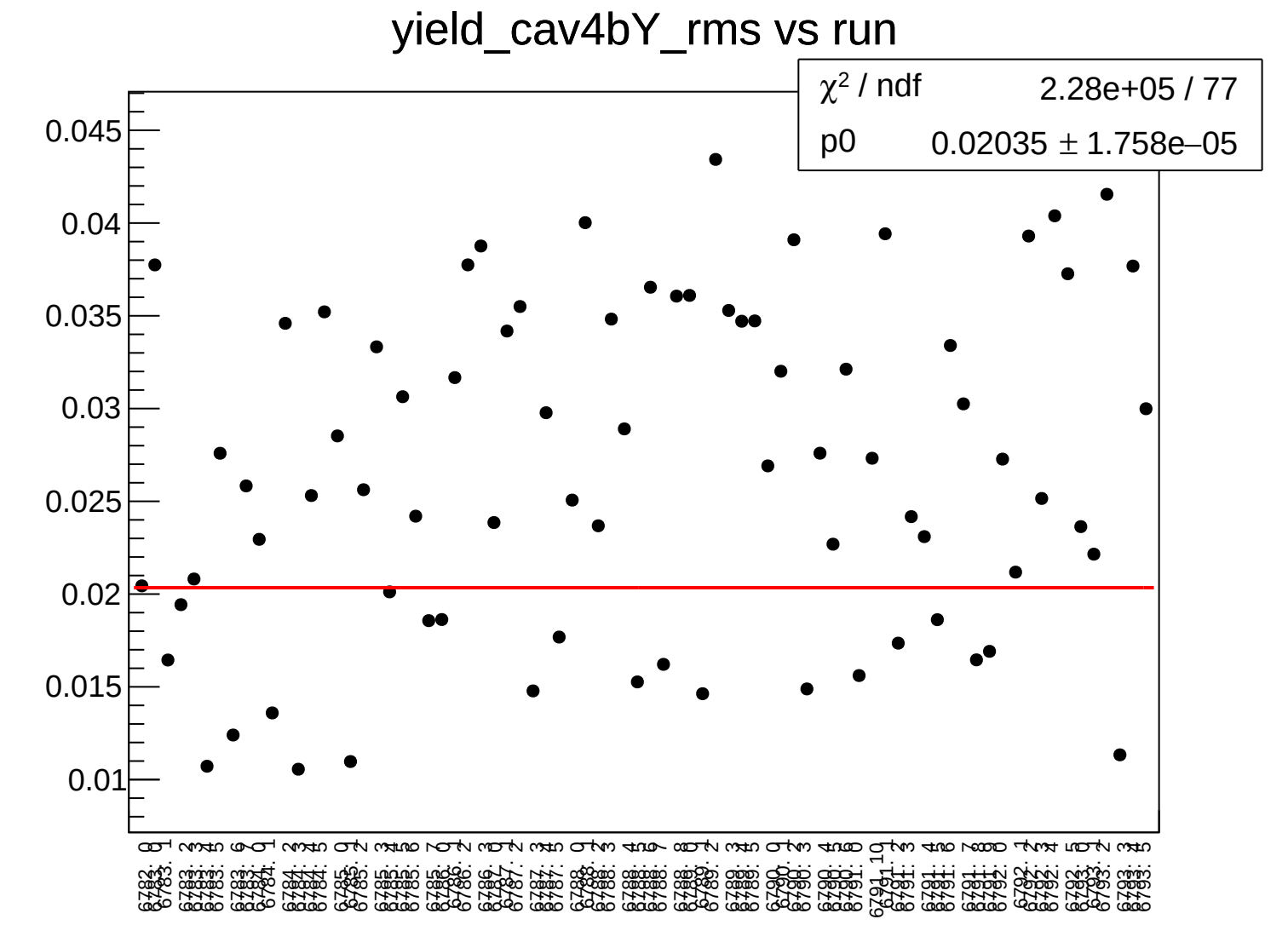

yield_cav4bX_mean vs run
χ² / ndf 3.256e+05 / 77
p0 −0.6538 ± 3.626e−05
pull
Entries 78
Mean 45.18
Std Dev 14.53

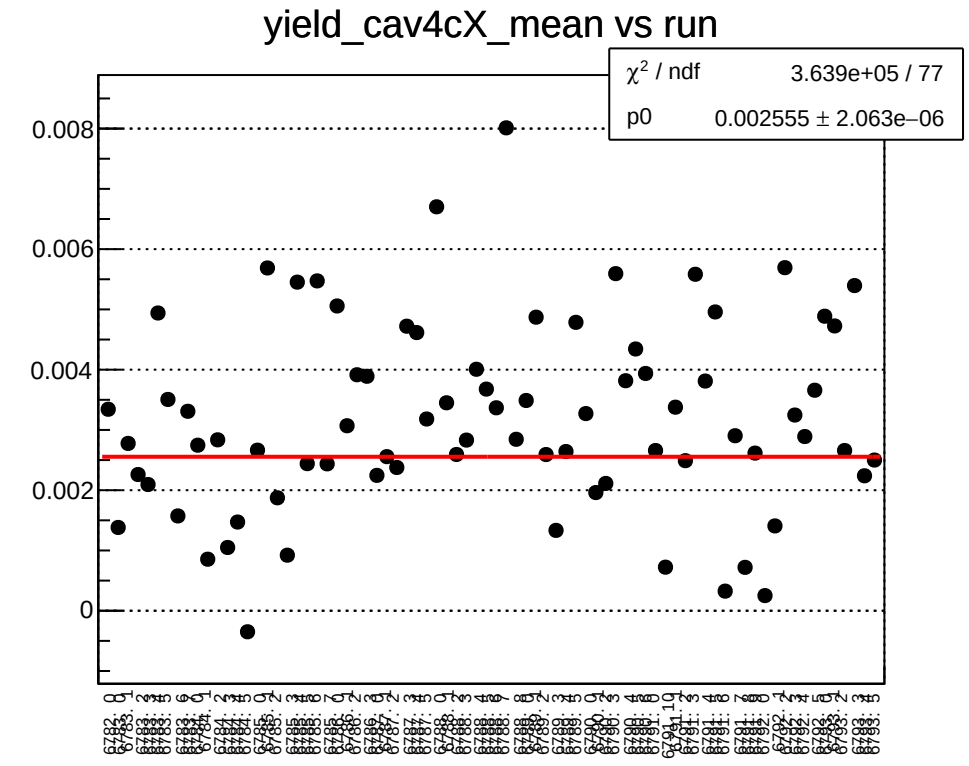

pull1D
Entries 78
Mean 0.9109
Std Dev 3.32

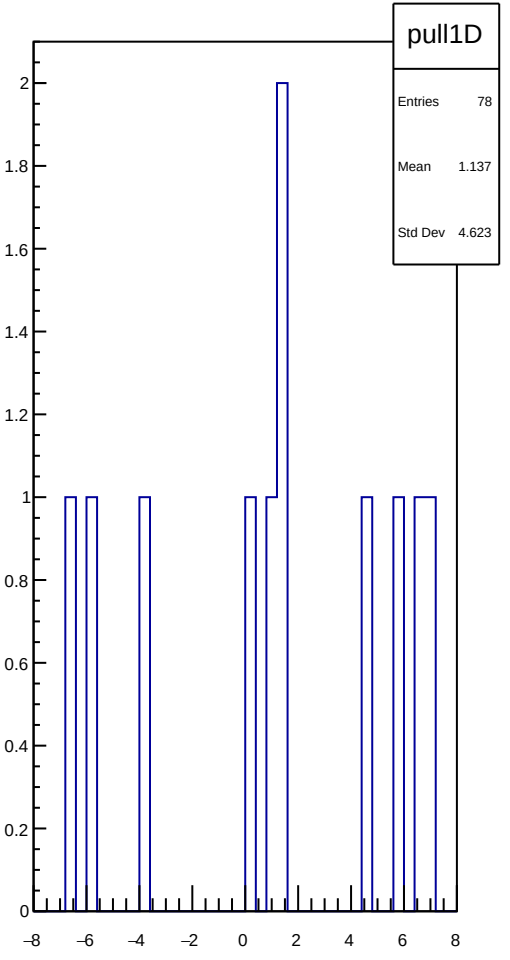

yield_cav4bX_rms vs run
χ² / ndf 2.633e+05 / 77
p0 0.02928 ± 2.564e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

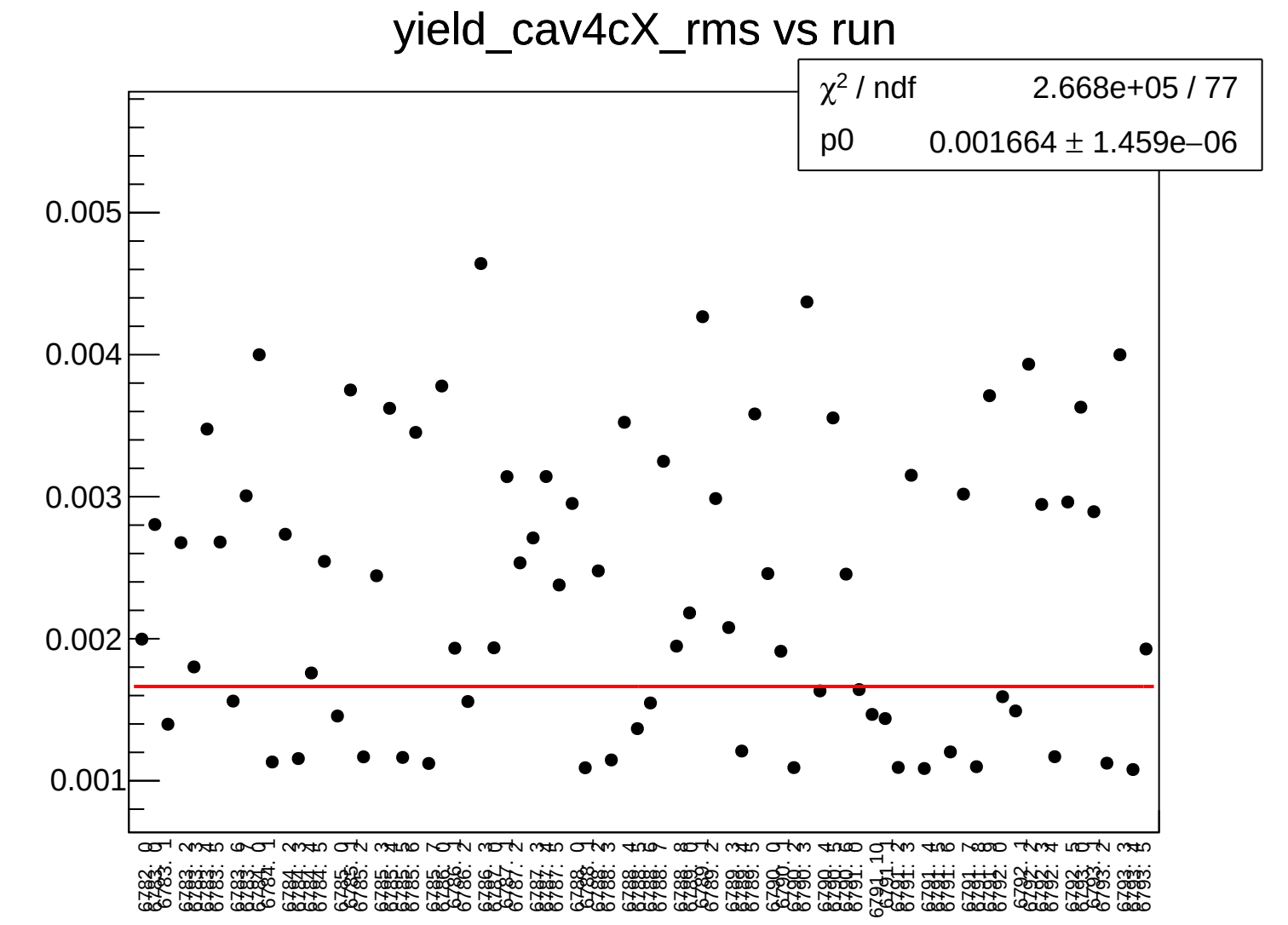

yield_cav4bY_mean vs run
χ² / ndf 1.212e+06 / 77
p0 −0.8388 ± 2.486e−05
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
pull
Entries 78
Mean −18.41
Std Dev 50.91
400
300
200
100
0
−100
−200
−300
−400

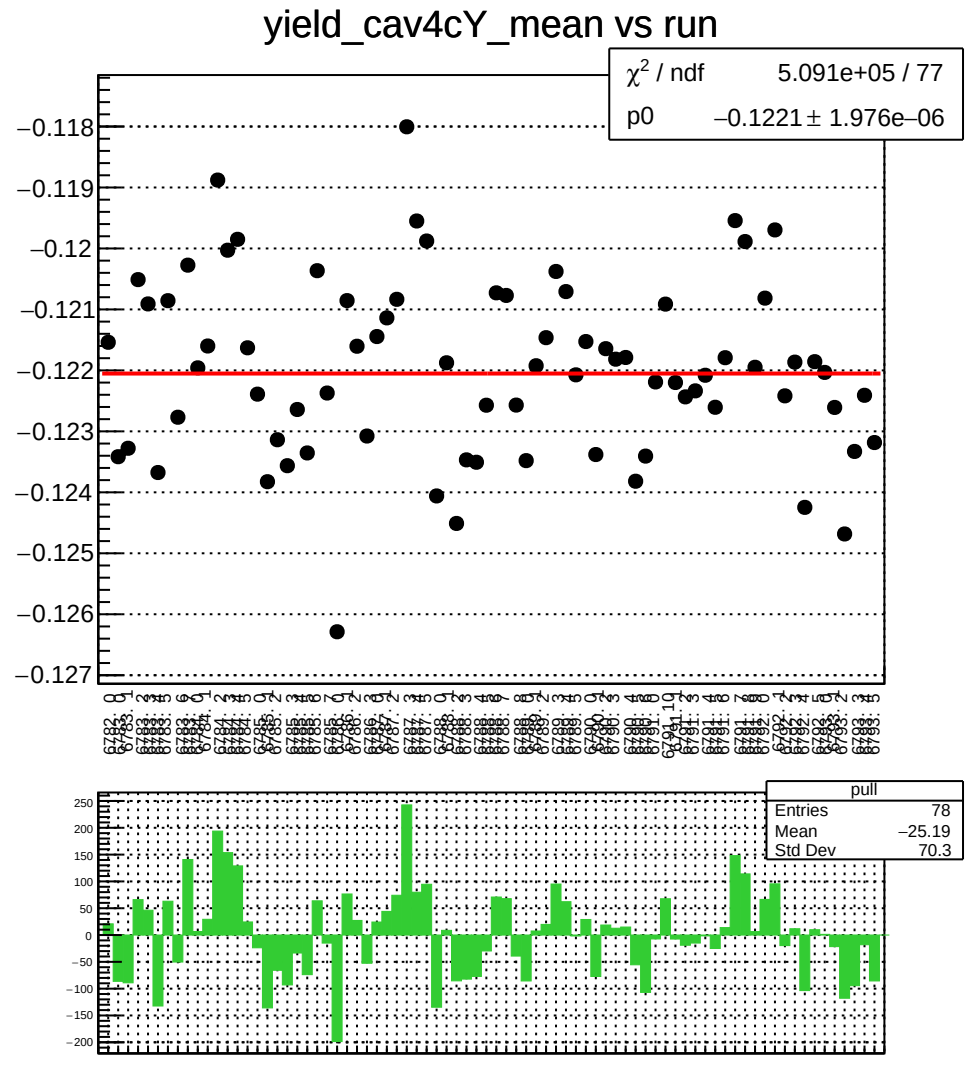

pull1D
Entries 78
Mean −0.295
Std Dev 4.337
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

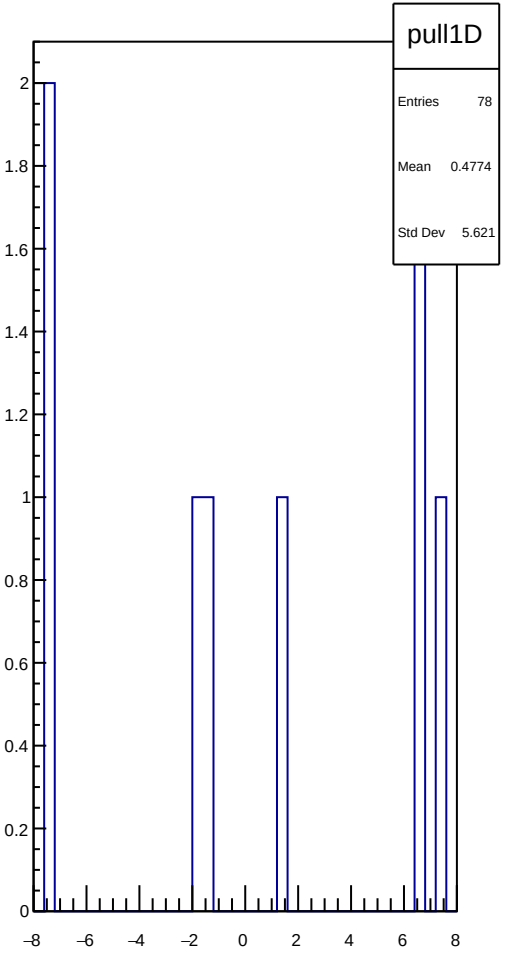

yield_cav4bY_rms vs run
χ² / ndf 2.28e+05 / 77
p0 0.02035 ± 1.758e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

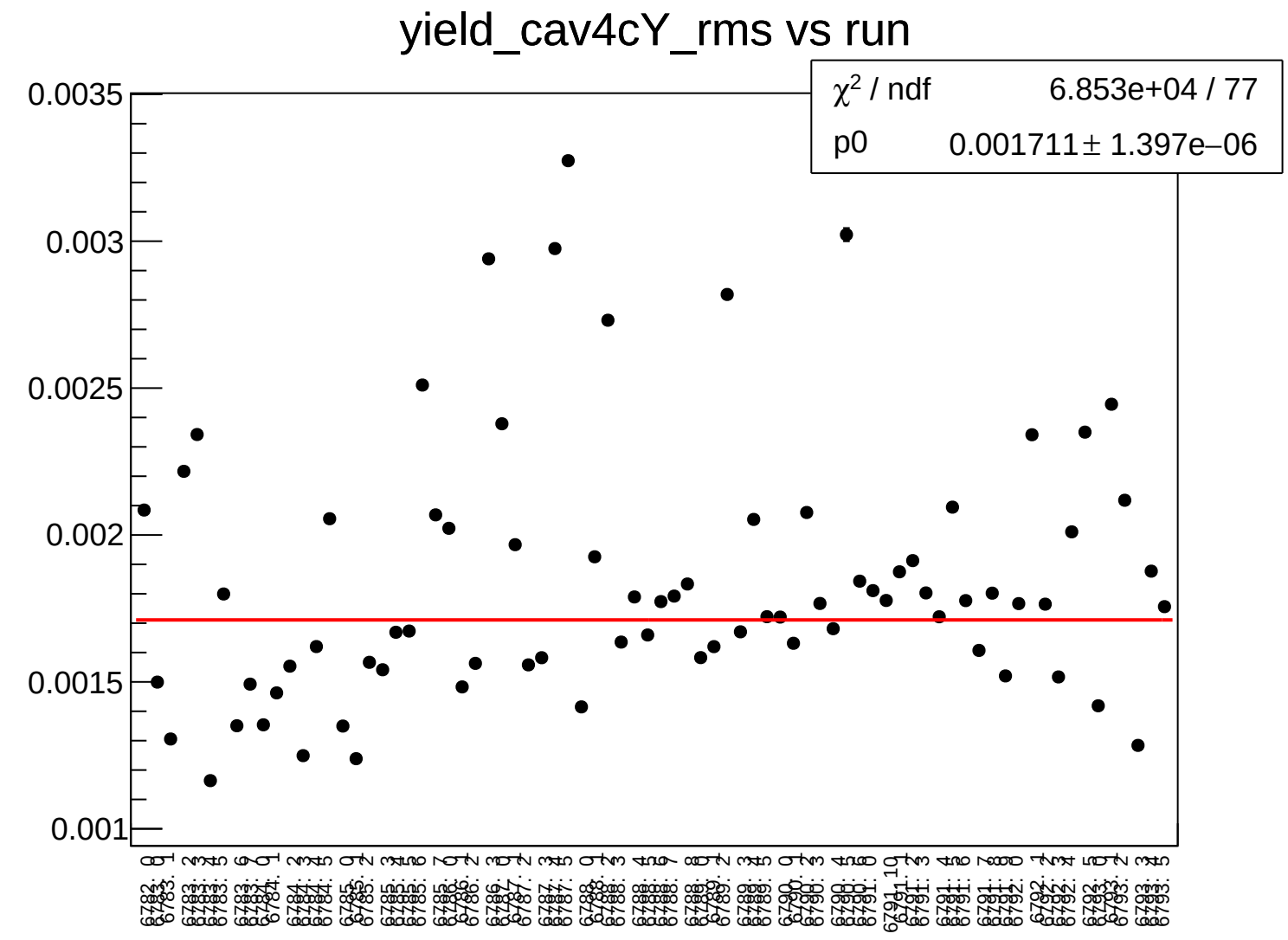

yield_cav4cX_mean vs run
χ² / ndf 3.639e+05 / 77
p0 0.002555 ± 2.063e−06
0.008
0.006
0.004
0.002
0
pull
Entries 78
Mean 47.86
Std Dev 9.436
150
100
50
0
−50
−100
−150

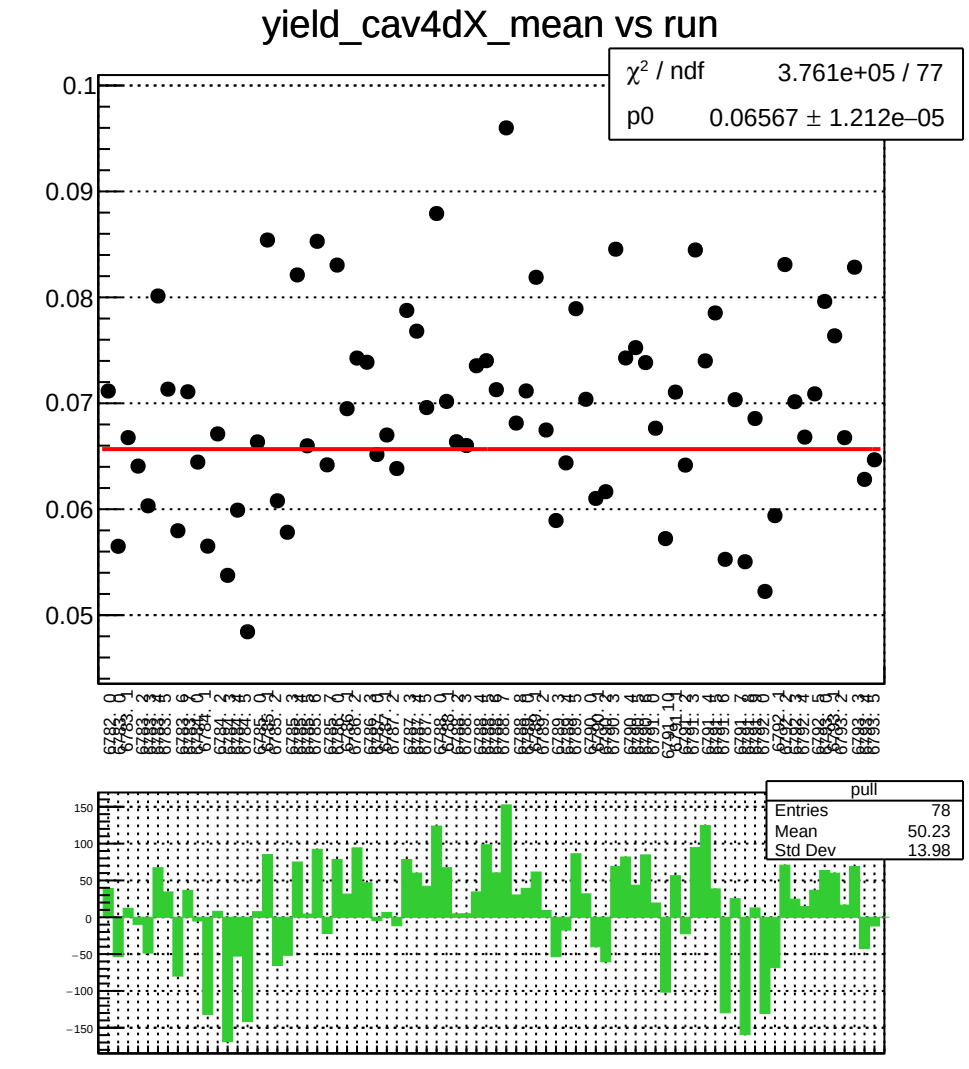

pull1D
Entries 78
Mean 1.137
Std Dev 4.623
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

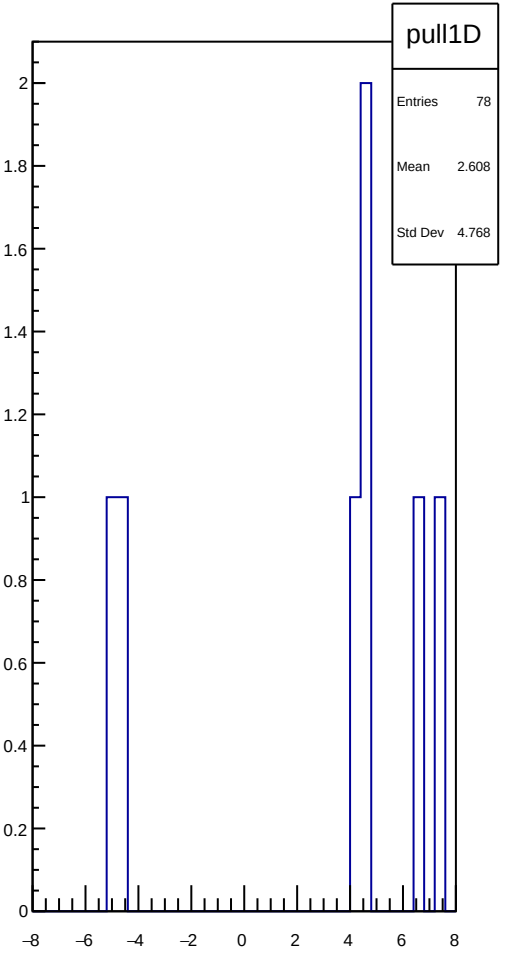

yield_cav4cX_rms vs run
χ² / ndf 2.668e+05 / 77
p0 0.001664 ± 1.459e−06
0.005
0.004
0.003
0.002
0.001

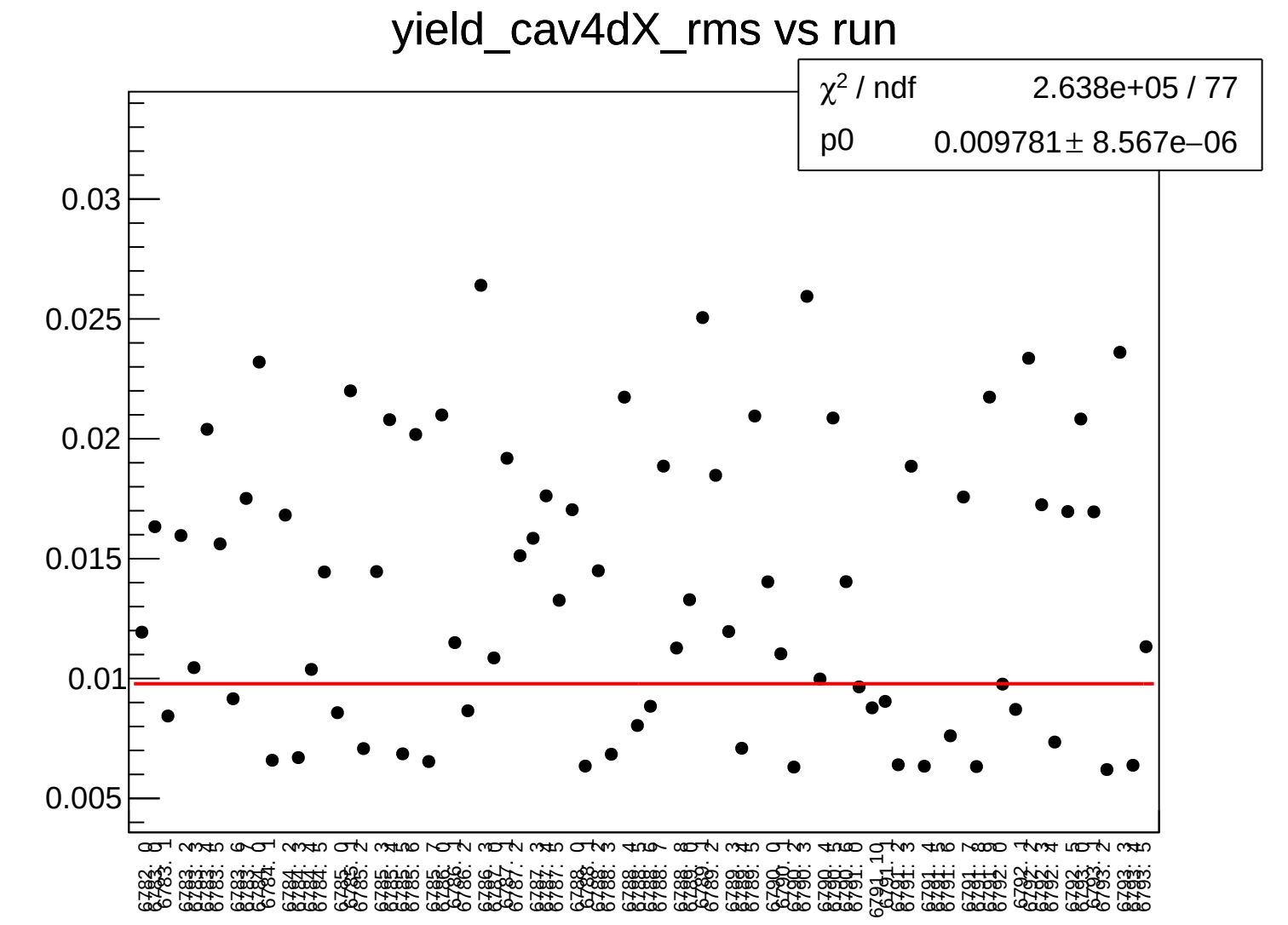

yield_cav4cY_mean vs run
χ² / ndf 5.091e+05 / 77
p0 −0.1221 ± 1.976e−06
−0.118
−0.119
−0.12
−0.121
−0.122
−0.123
−0.124
−0.125
−0.126
−0.127
pull
Entries 78
Mean −25.19
Std Dev 70.3
250
200
150
100
50
0
−50
−100
−150
−200

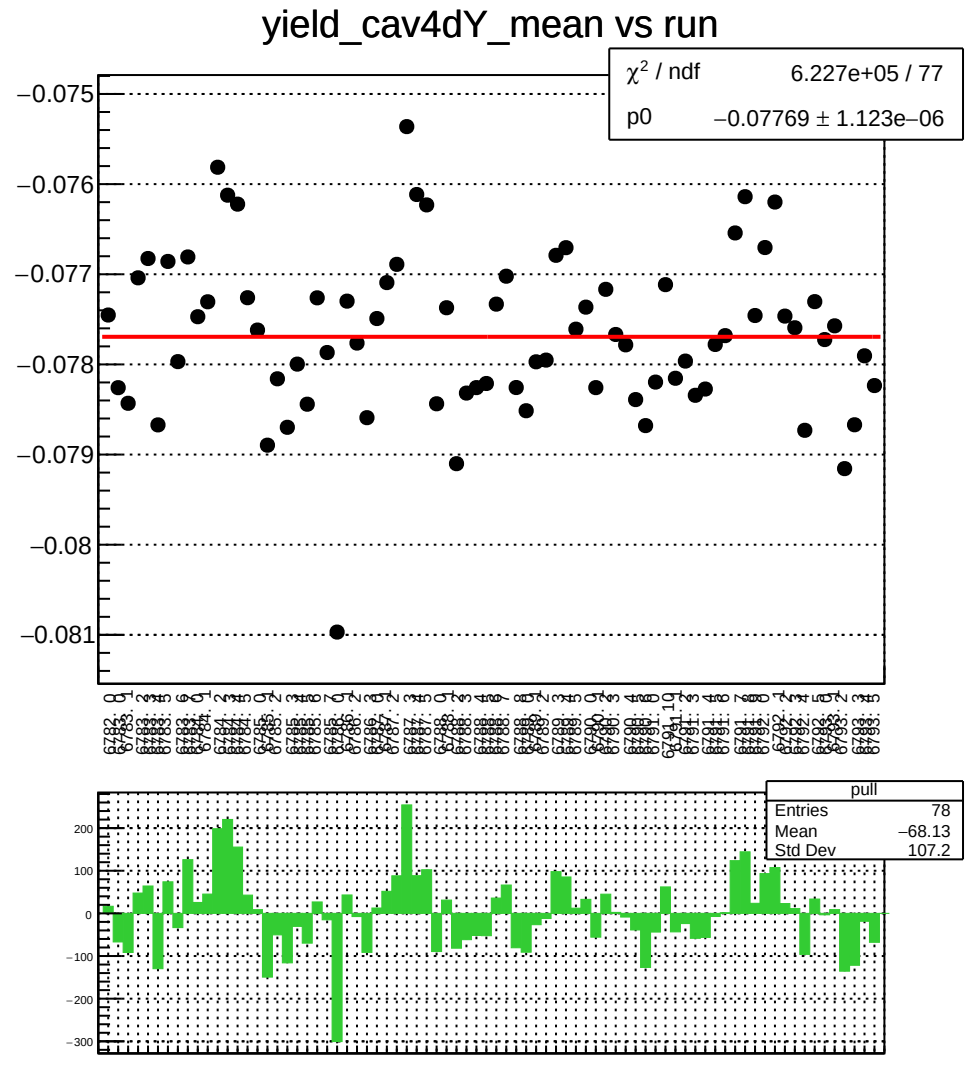

pull1D
Entries 78
Mean 0.4774
Std Dev 5.621
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

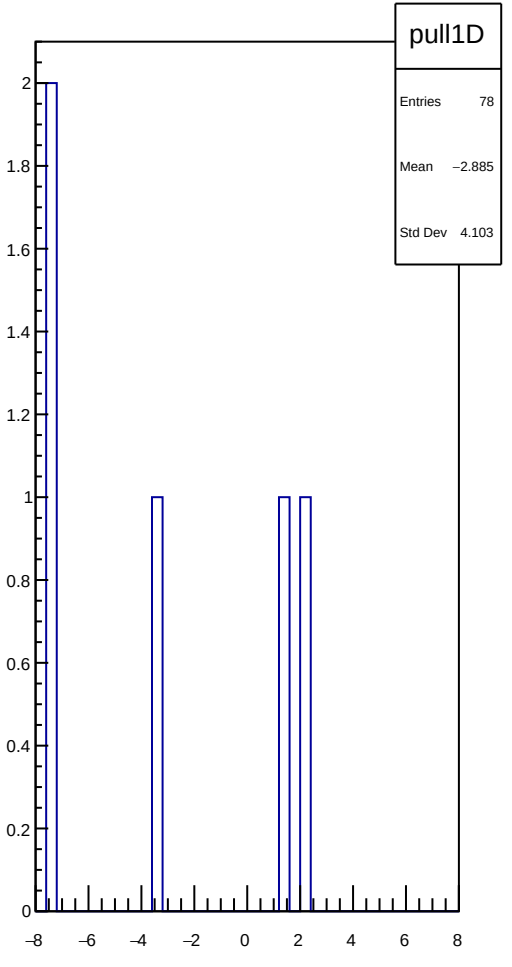

yield_cav4cY_rms vs run
χ² / ndf 6.853e+04 / 77
p0 0.001711 ± 1.397e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

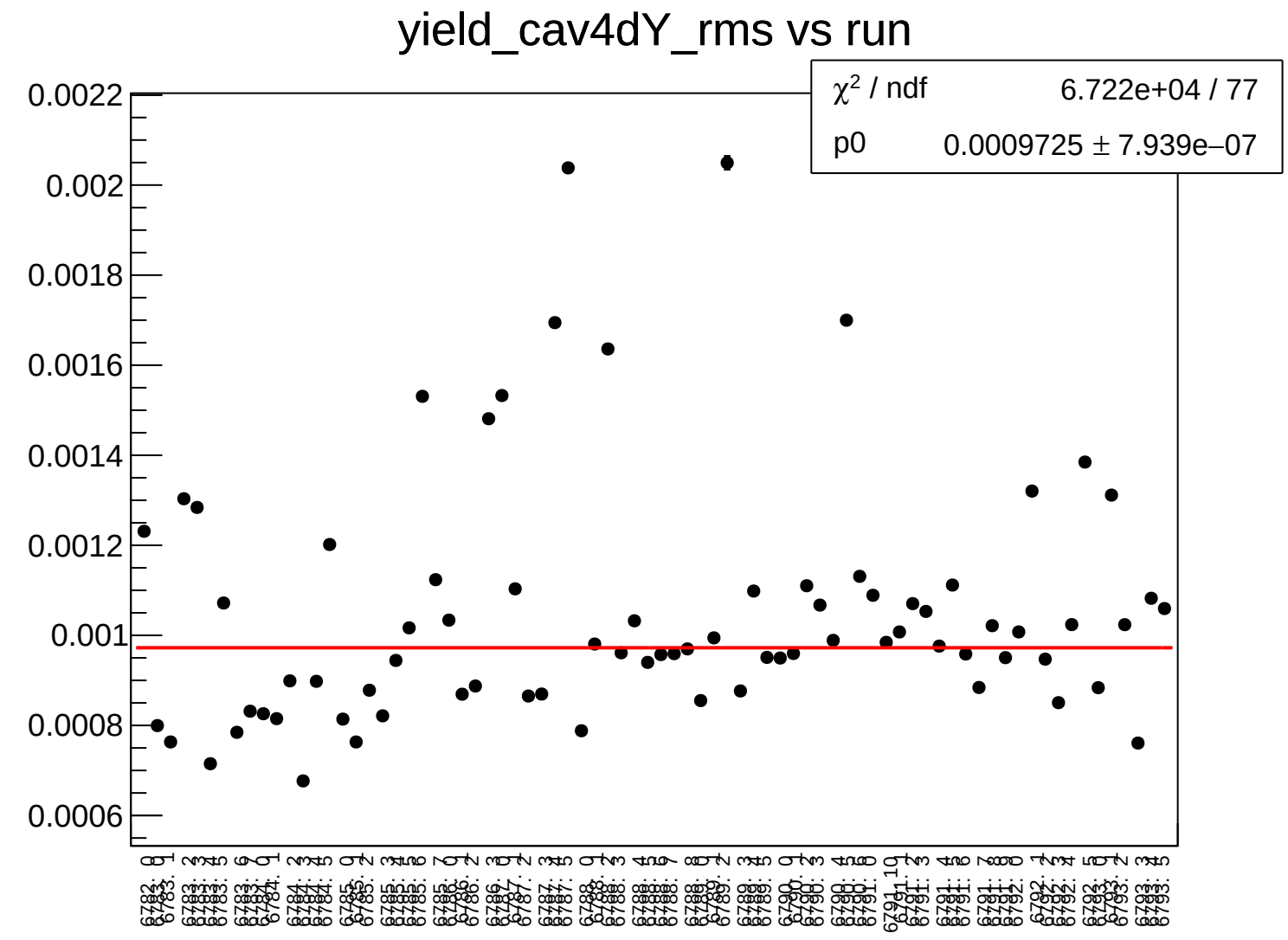

yield_cav4dX_mean vs run
χ² / ndf 3.761e+05 / 77
p0 0.06567 ± 1.212e−05
0.1
0.09
0.08
0.07
0.06
0.05
pull
Entries 78
Mean 50.23
Std Dev 13.98
150
100
50
0
−50
−100
−150

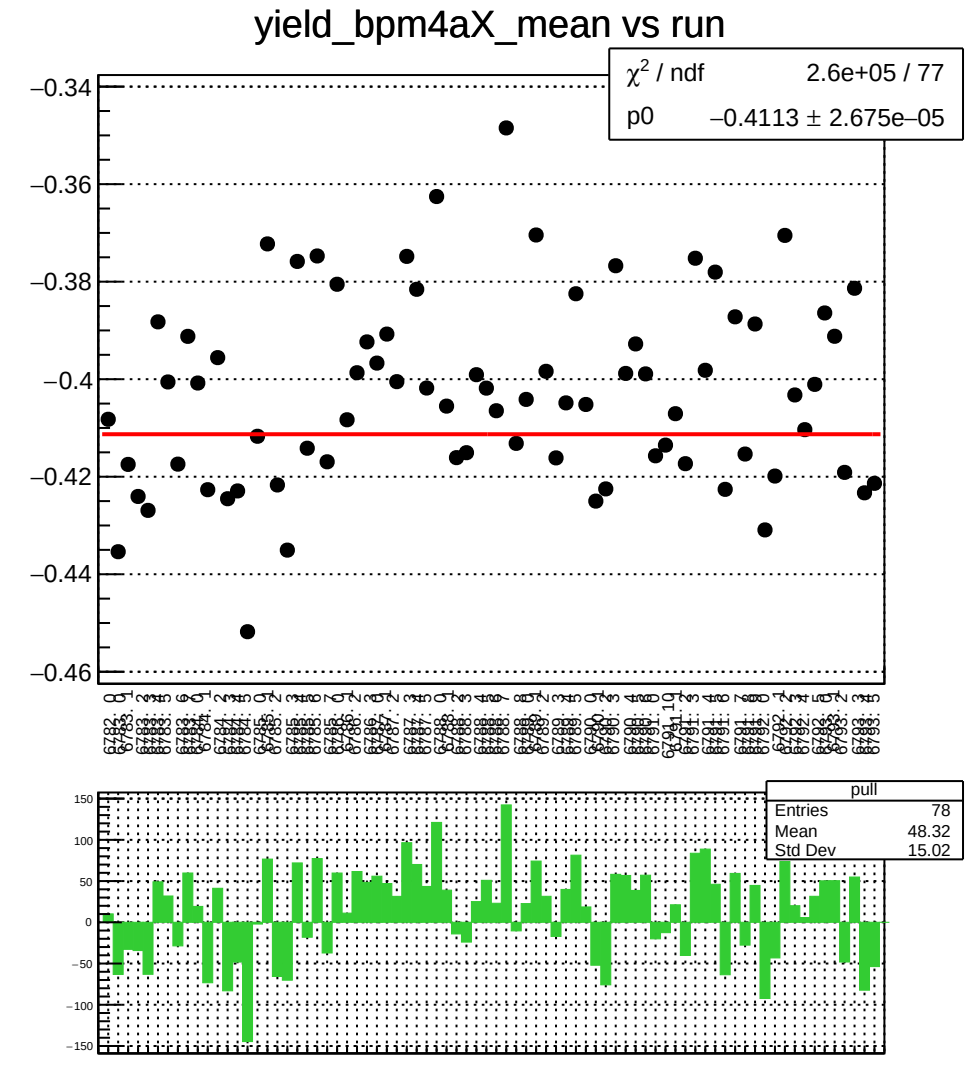

pull1D
Entries 78
Mean 2.608
Std Dev 4.768
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

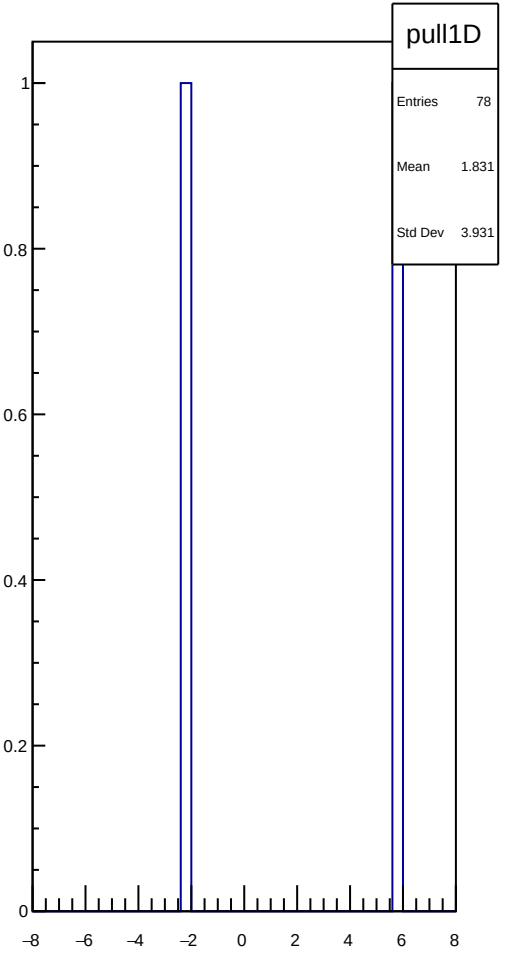

yield_cav4dX_rms vs run
χ² / ndf 2.638e+05 / 77
p0 0.009781 ± 8.567e−06
0.03
0.025
0.02
0.015
0.01
0.005

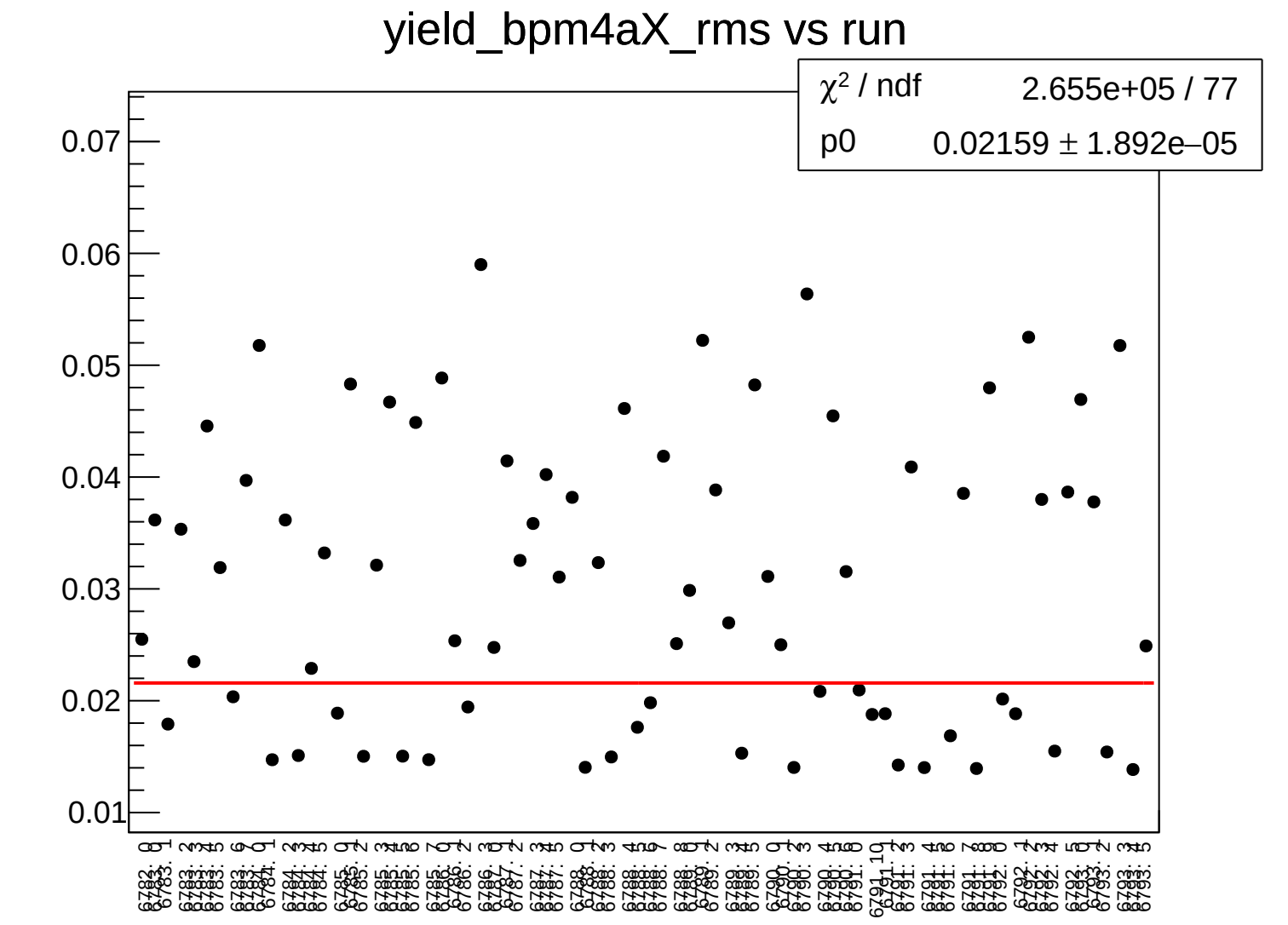

yield_cav4dY_mean vs run
χ² / ndf 6.227e+05 / 77
p0 −0.07769 ± 1.123e−06
−0.075
−0.076
−0.077
−0.078
−0.079
−0.08
−0.081
pull
Entries 78
Mean −68.13
Std Dev 107.2
200
100
0
−100
−200
−300

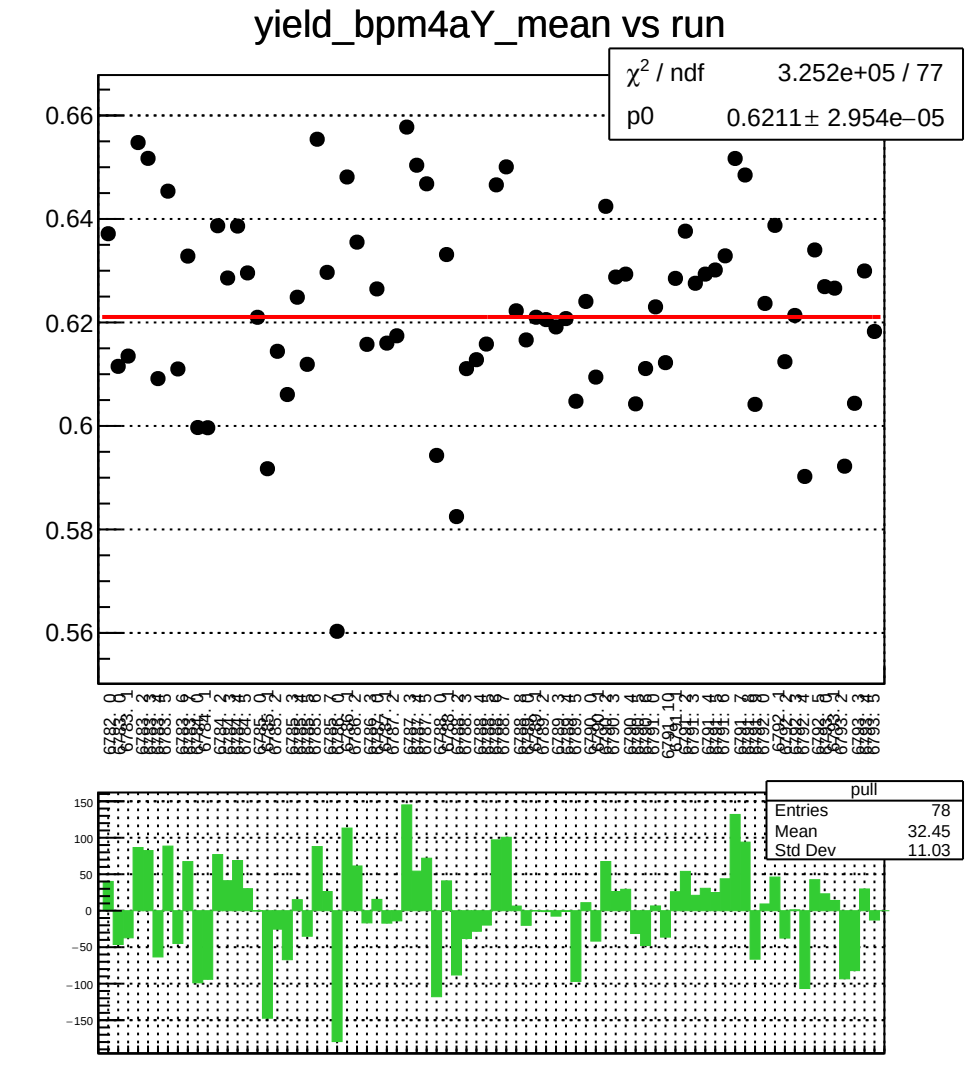

pull1D
Entries 78
Mean −2.885
Std Dev 4.103
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

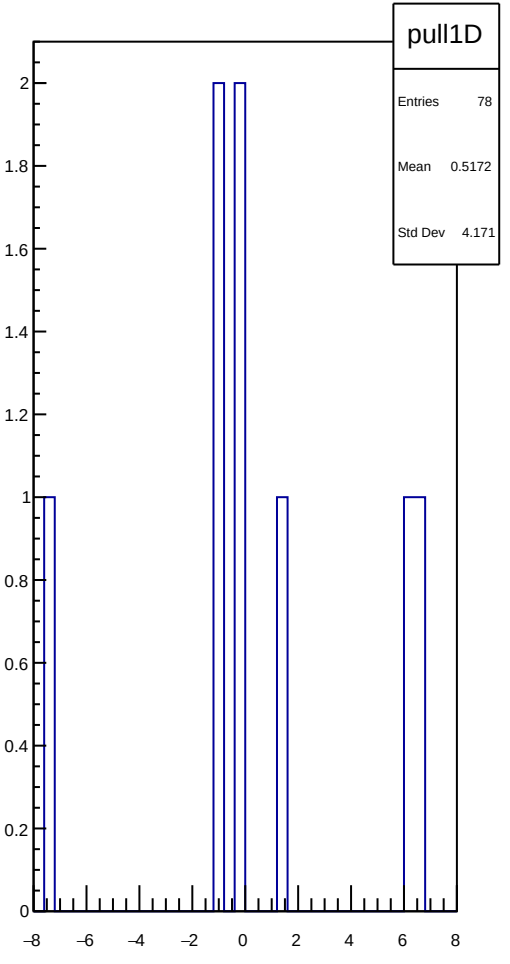

yield_cav4dY_rms vs run
χ² / ndf 6.722e+04 / 77
p0 0.0009725 ± 7.939e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

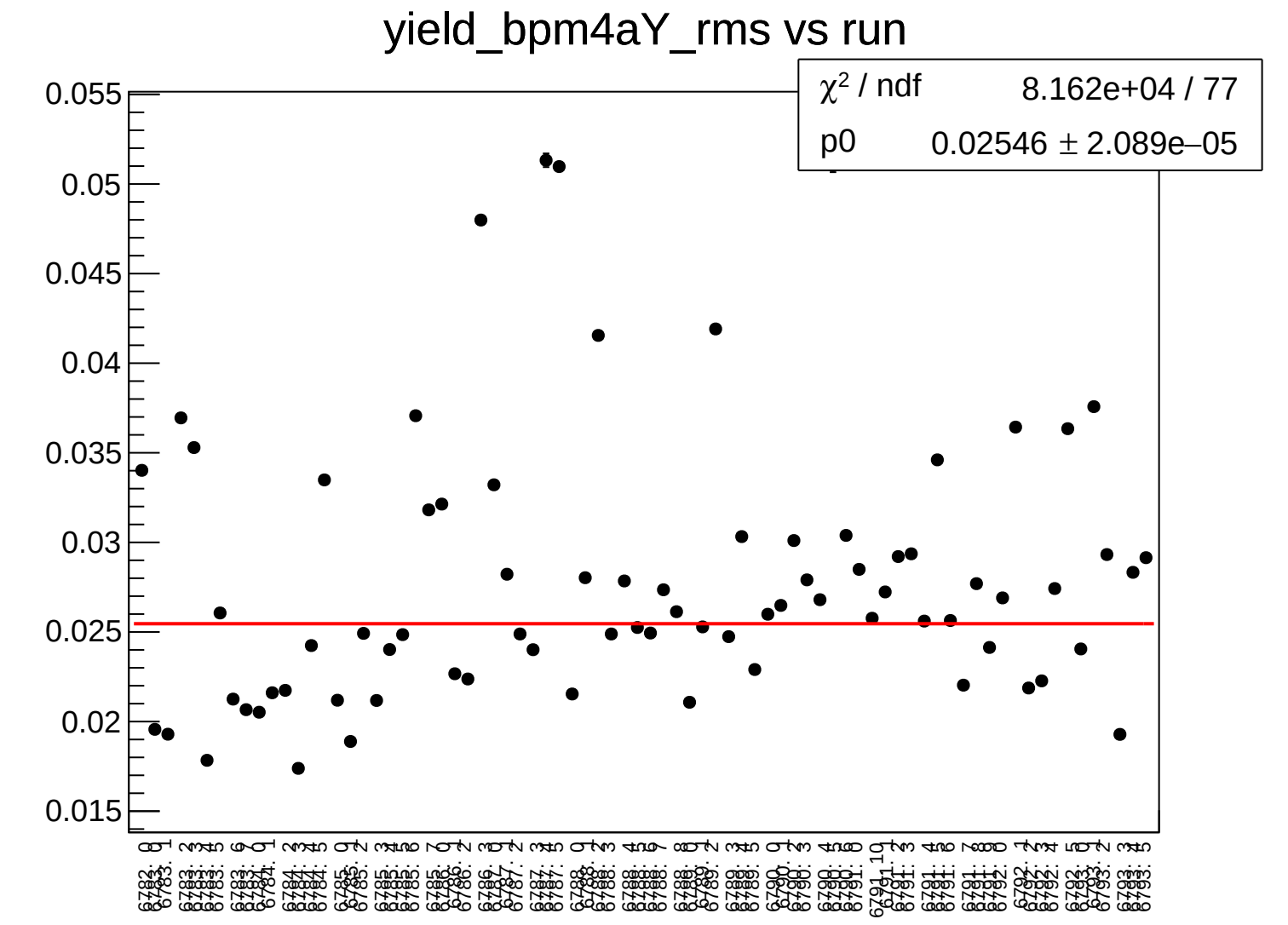

yield_bpm4aX_mean vs run
χ² / ndf 2.6e+05 / 77
p0 −0.4113 ± 2.675e−05
pull
Entries 78
Mean 48.32
Std Dev 15.02

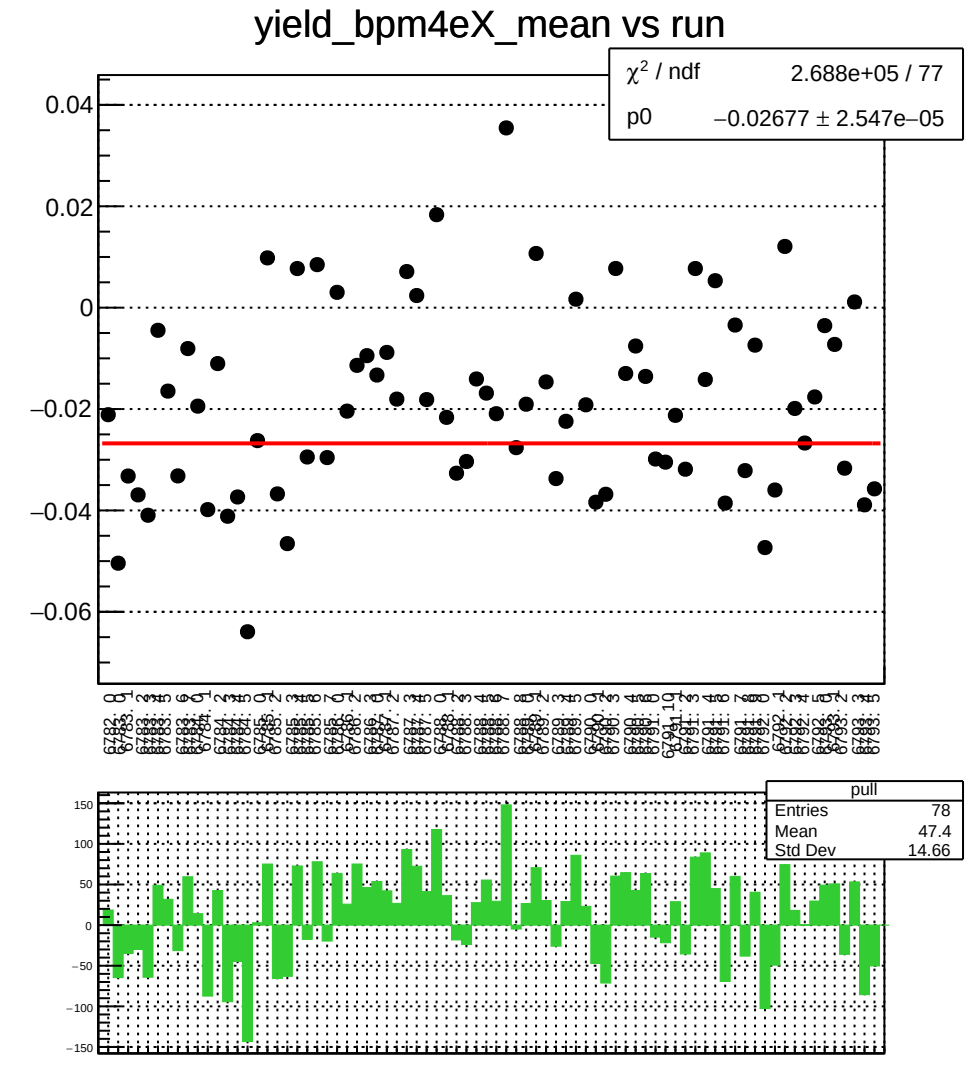

pull1D
Entries 78
Mean 1.831
Std Dev 3.931

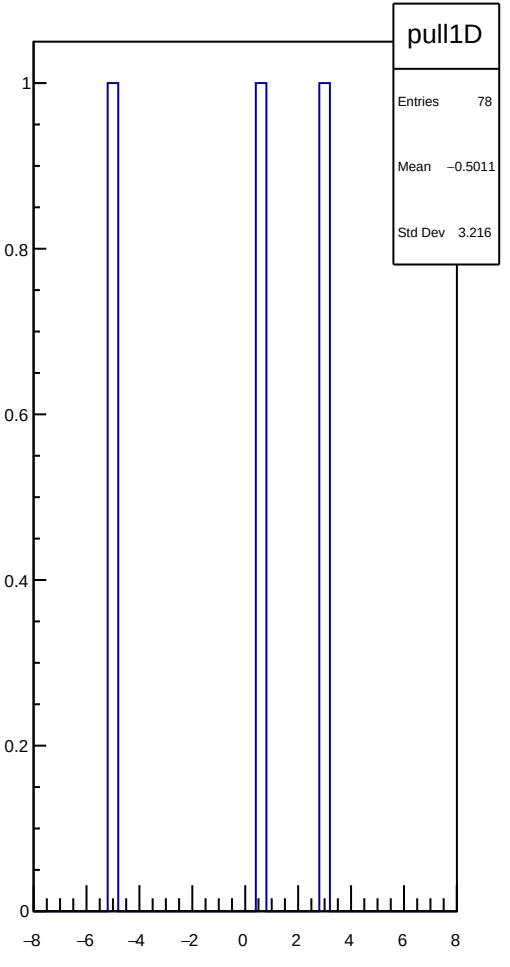

yield_bpm4aX_rms vs run
χ² / ndf 2.655e+05 / 77
p0 0.02159 ± 1.892e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

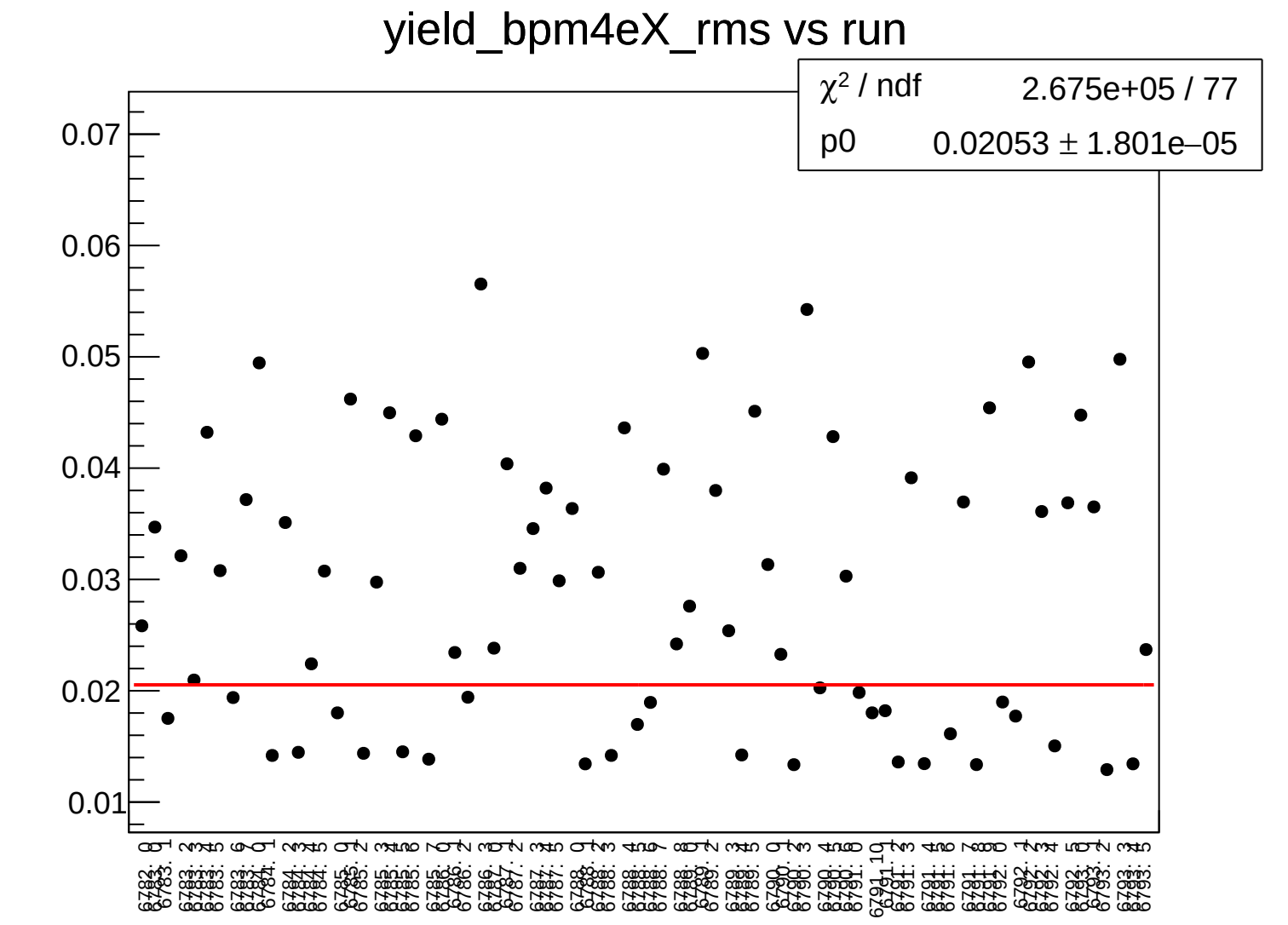

yield_bpm4aY_mean vs run
χ² / ndf 3.252e+05 / 77
p0 0.6211 ± 2.954e−05
0.66
0.64
0.62
0.6
0.58
0.56
pull
Entries 78
Mean 32.45
Std Dev 11.03
150
100
50
0
−50
−100
−150

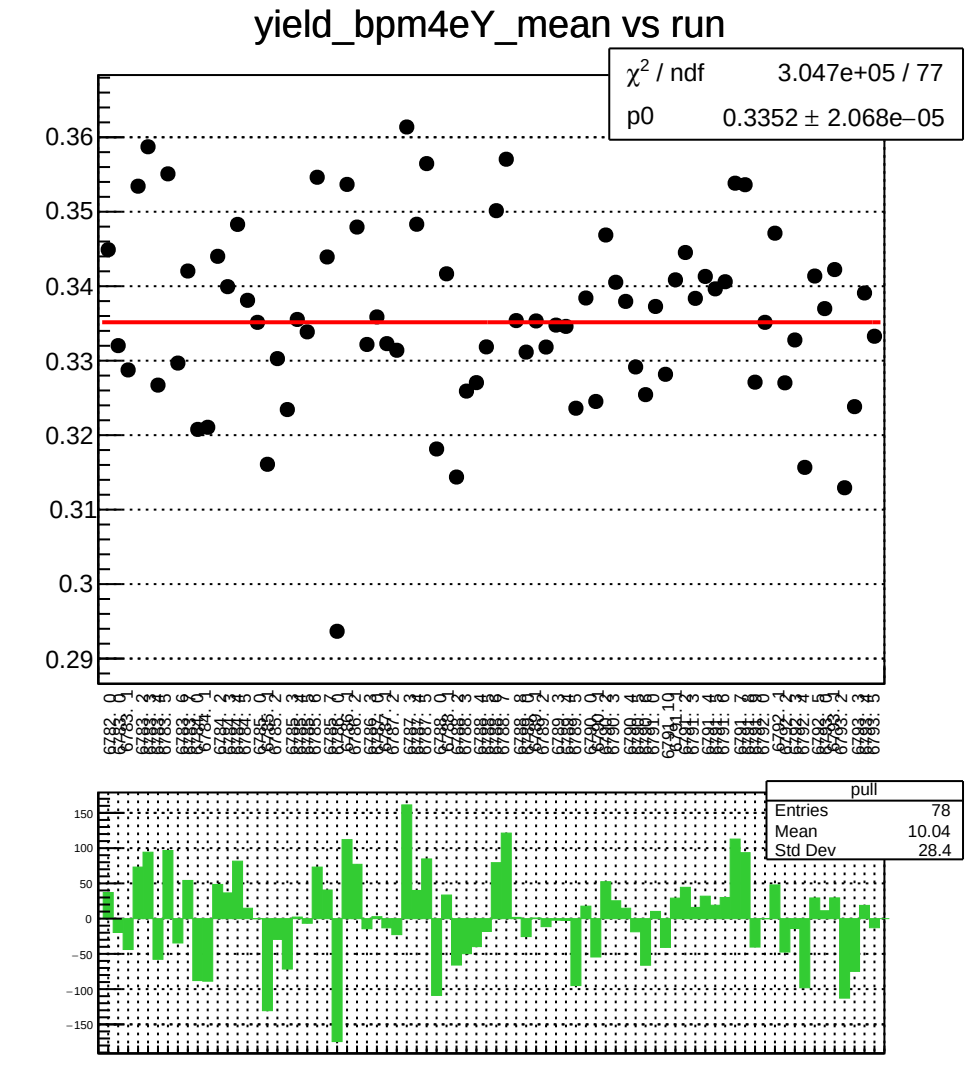

pull1D
Entries 78
Mean 0.5172
Std Dev 4.171
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

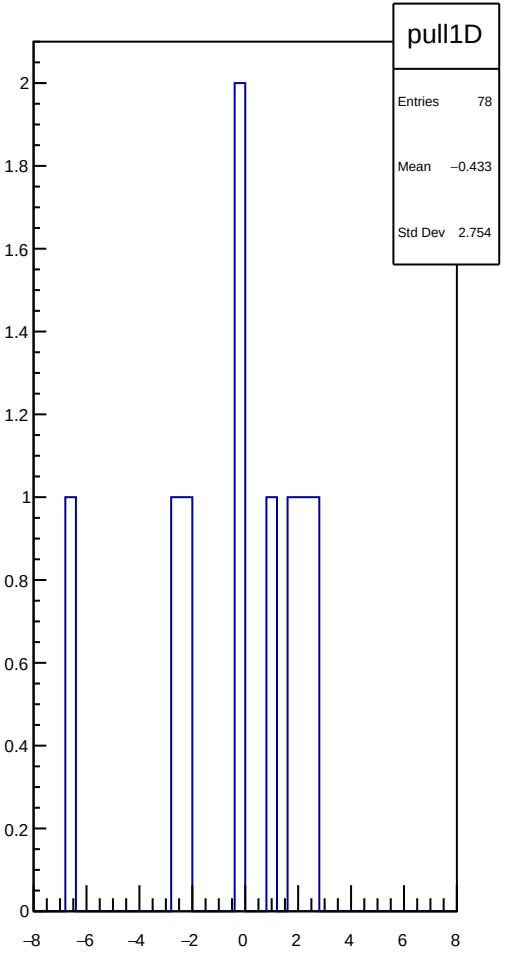

yield_bpm4aY_rms vs run
χ² / ndf 8.162e+04 / 77
p0 0.02546 ± 2.089e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

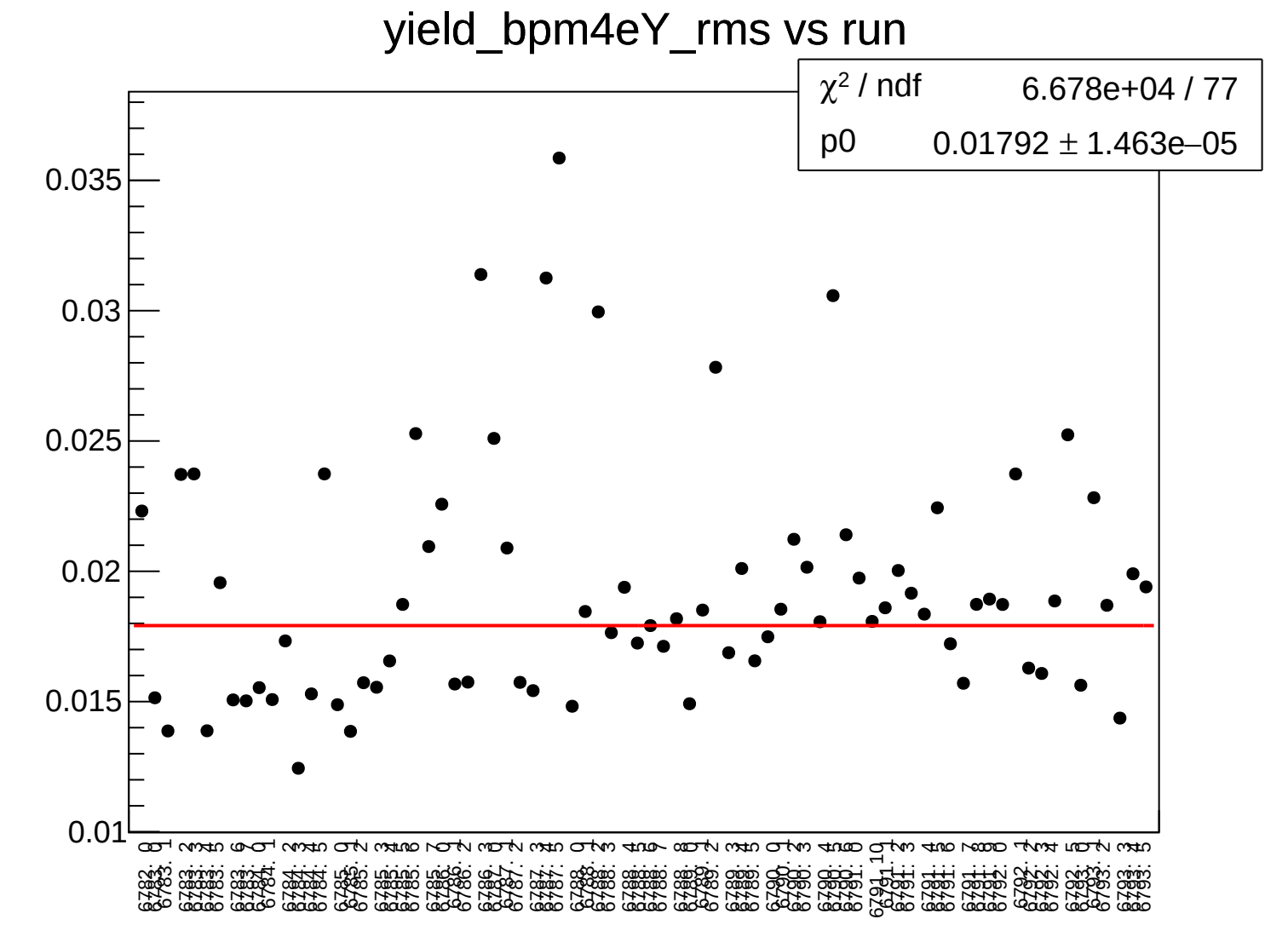

yield_bpm4eX_mean vs run
χ² / ndf 2.688e+05 / 77
p0 −0.02677 ± 2.547e−05
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 78
Mean 47.4
Std Dev 14.66
150
100
50
0
−50
−100
−150

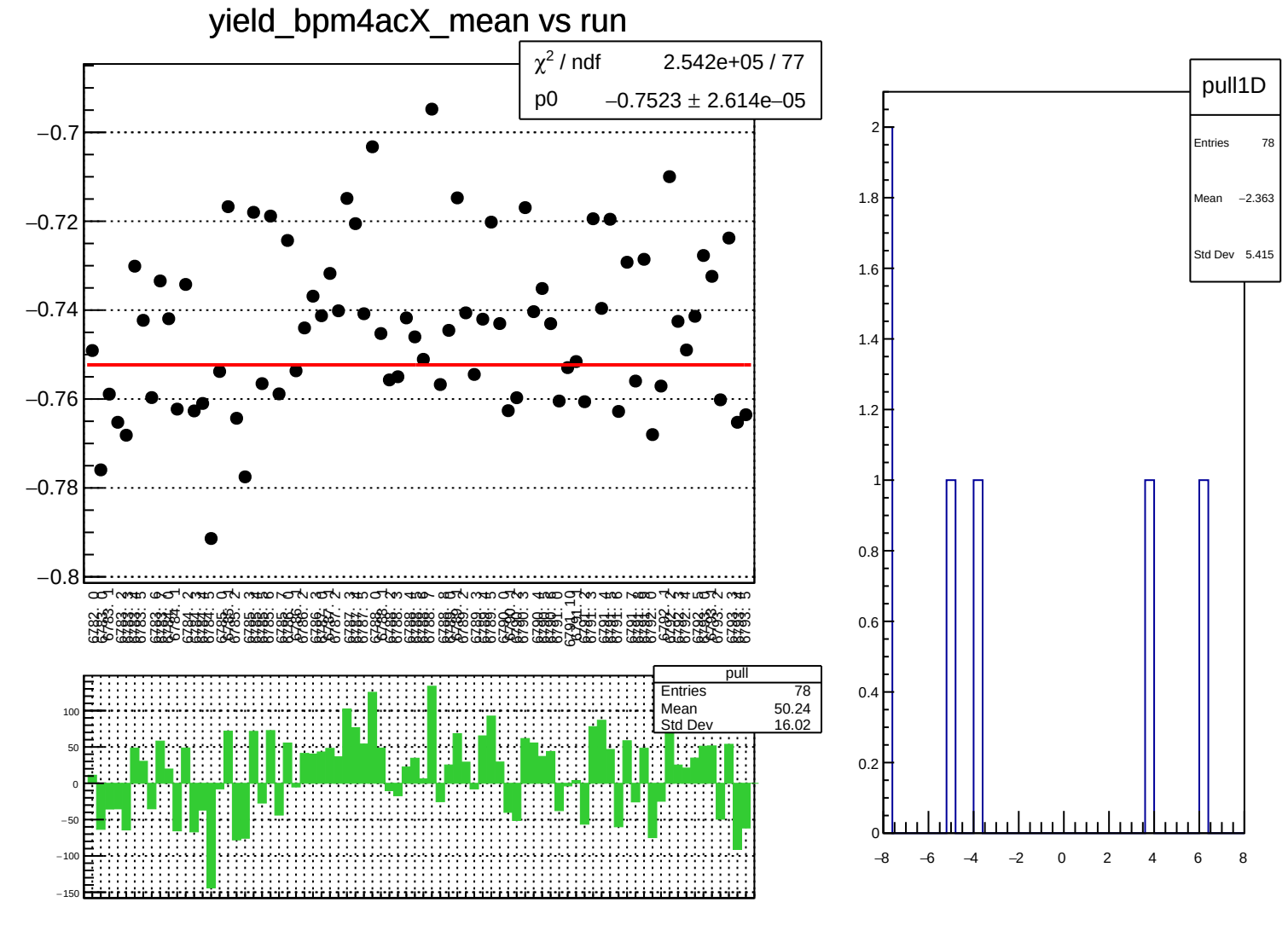

pull1D
Entries 78
Mean −0.5011
Std Dev 3.216
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

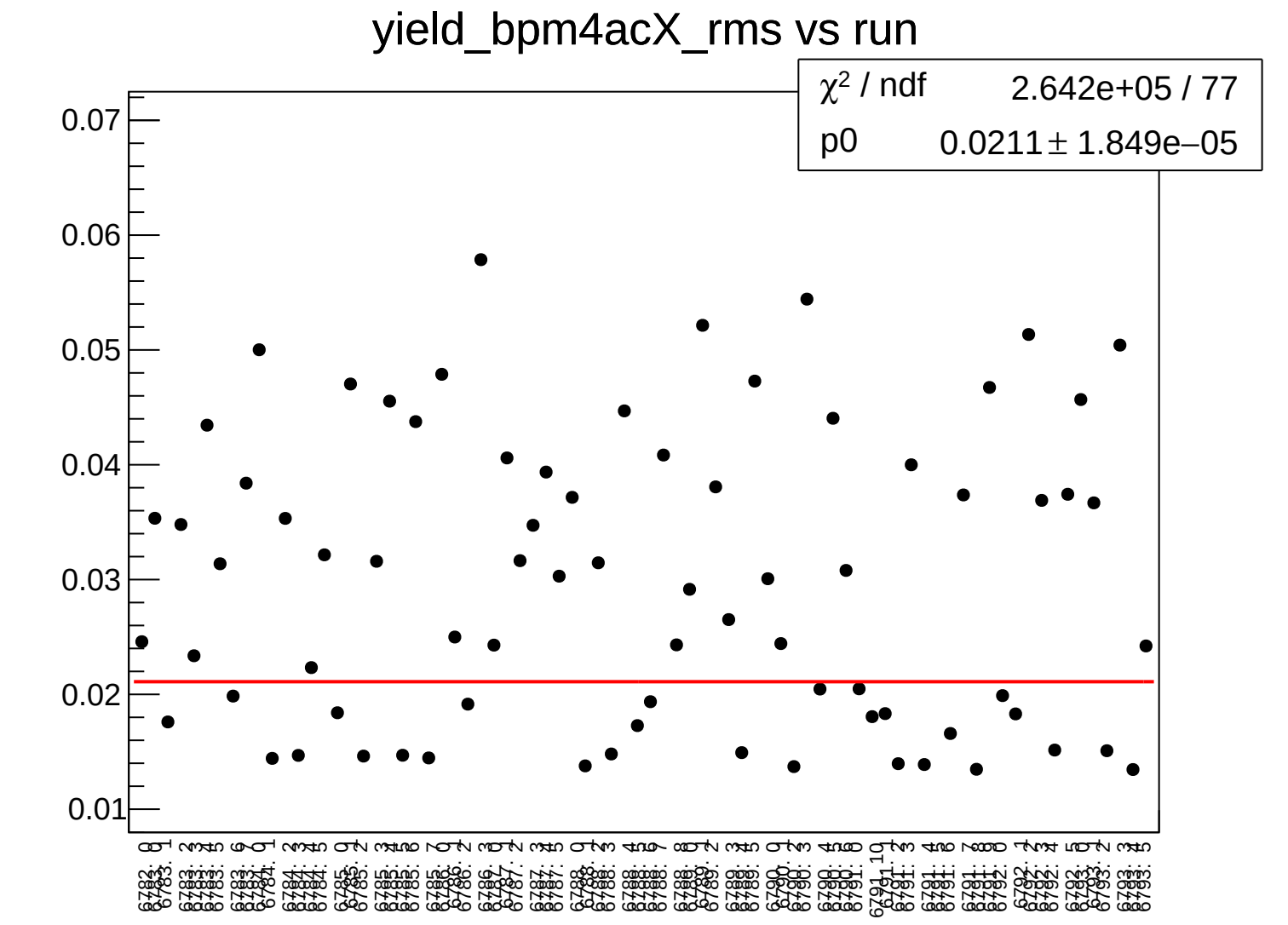

yield_bpm4eX_rms vs run
χ² / ndf 2.675e+05 / 77
p0 0.02053 ± 1.801e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

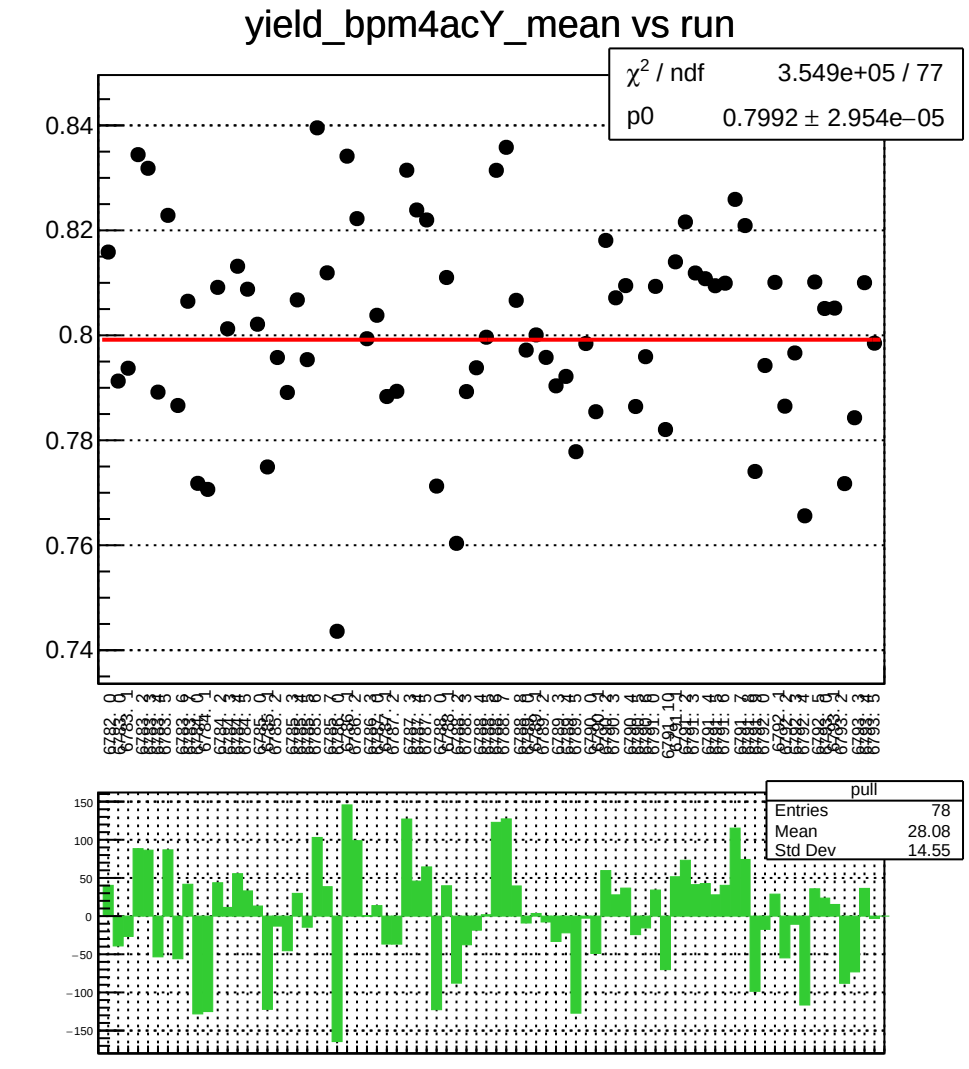

yield_bpm4eY_mean vs run
χ² / ndf 3.047e+05 / 77
p0 0.3352 ± 2.068e−05
0.36
0.35
0.34
0.33
0.32
0.31
0.3
0.29
pull
Entries 78
Mean 10.04
Std Dev 28.4
150
100
50
0
−50
−100
−150

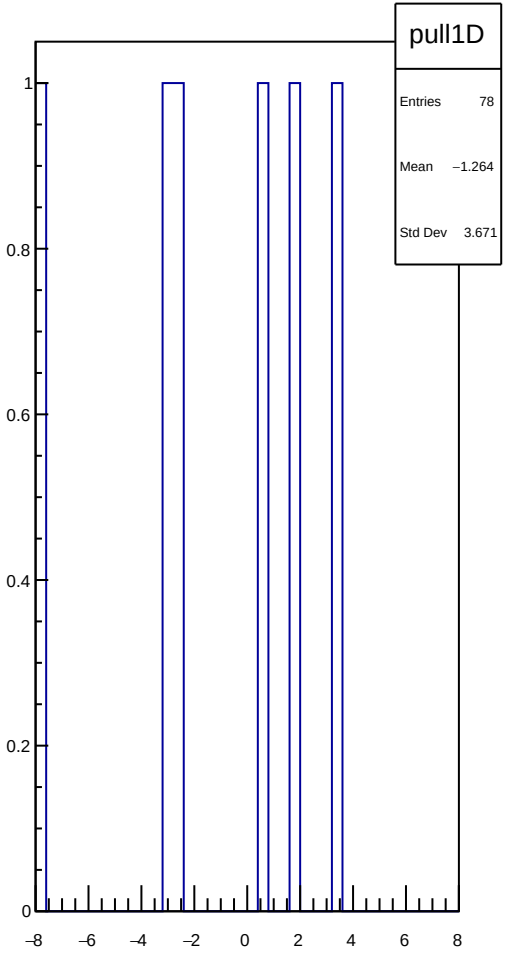

pull1D
Entries 78
Mean −0.433
Std Dev 2.754
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

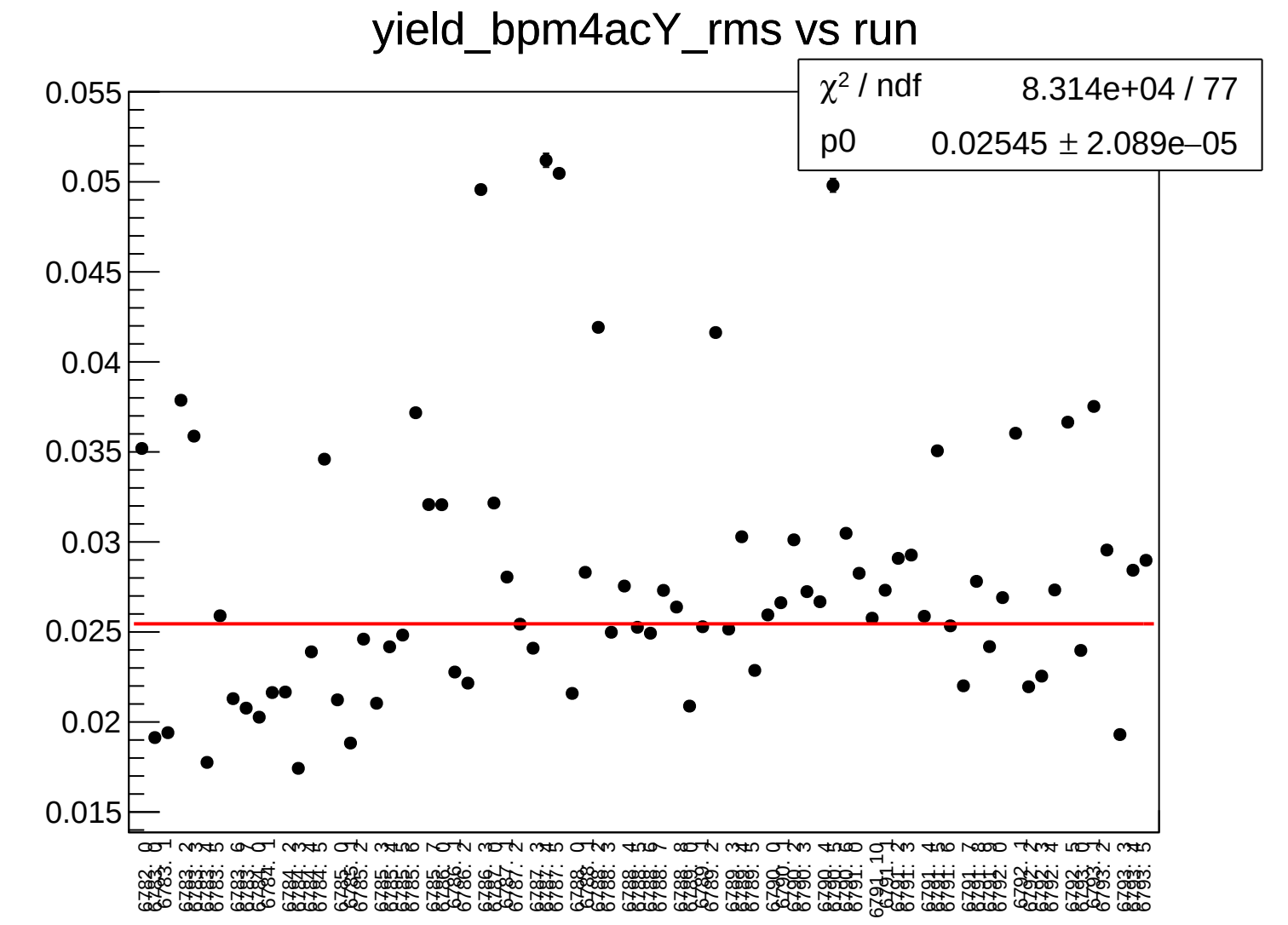

yield_bpm4eY_rms vs run
χ² / ndf 6.678e+04 / 77
p0 0.01792 ± 1.463e–05
0.035
0.03
0.025
0.02
0.015
0.01

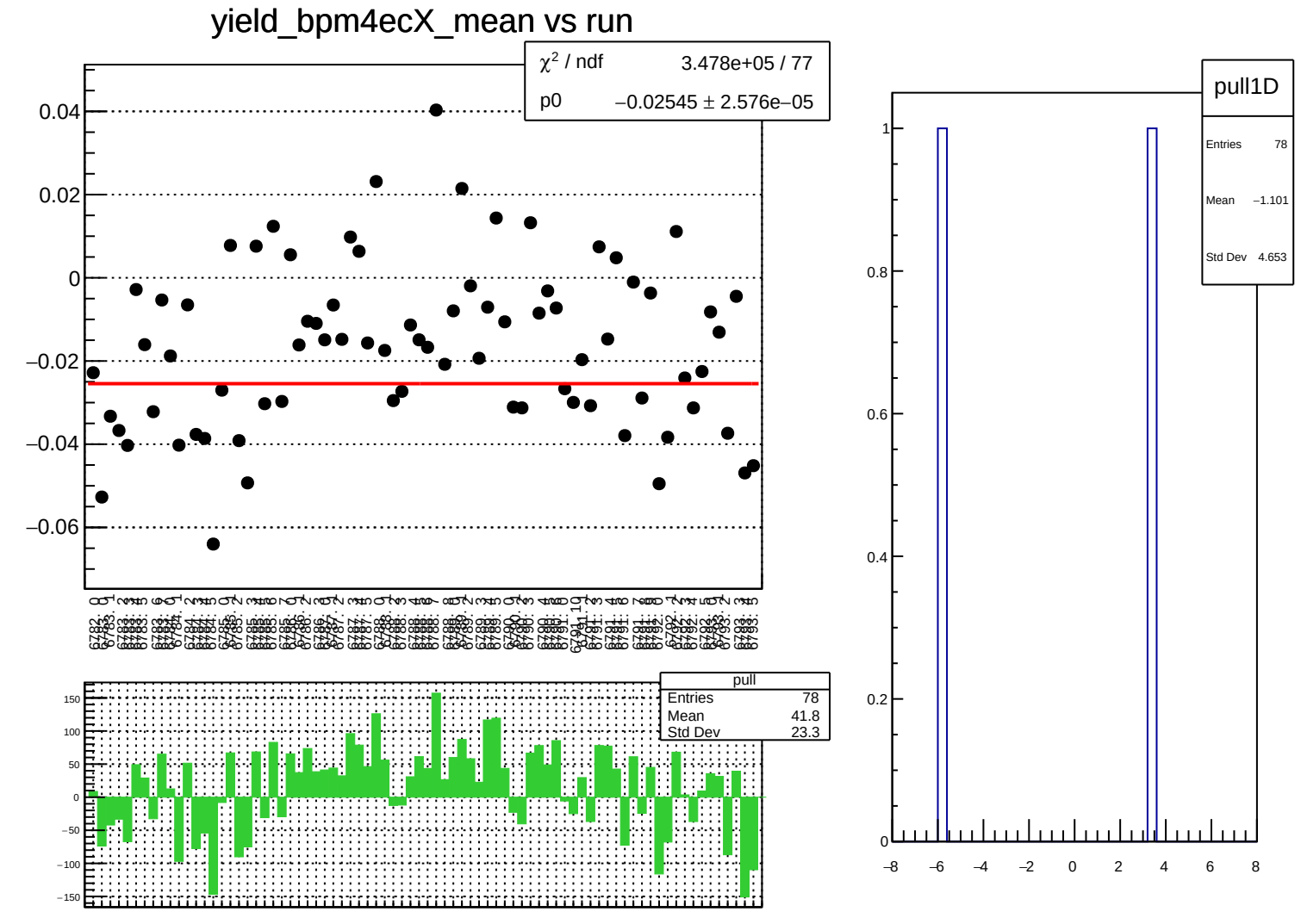

yield_bpm4acX_mean vs run
χ² / ndf 2.542e+05 / 77
p0 −0.7523 ± 2.614e−05
−0.7
−0.72
−0.74
−0.76
−0.78
−0.8
pull
Entries 78
Mean 50.24
Std Dev 16.02
100
50
0
−50
−100
−150
pull1D
Entries 78
Mean −2.363
Std Dev 5.415
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

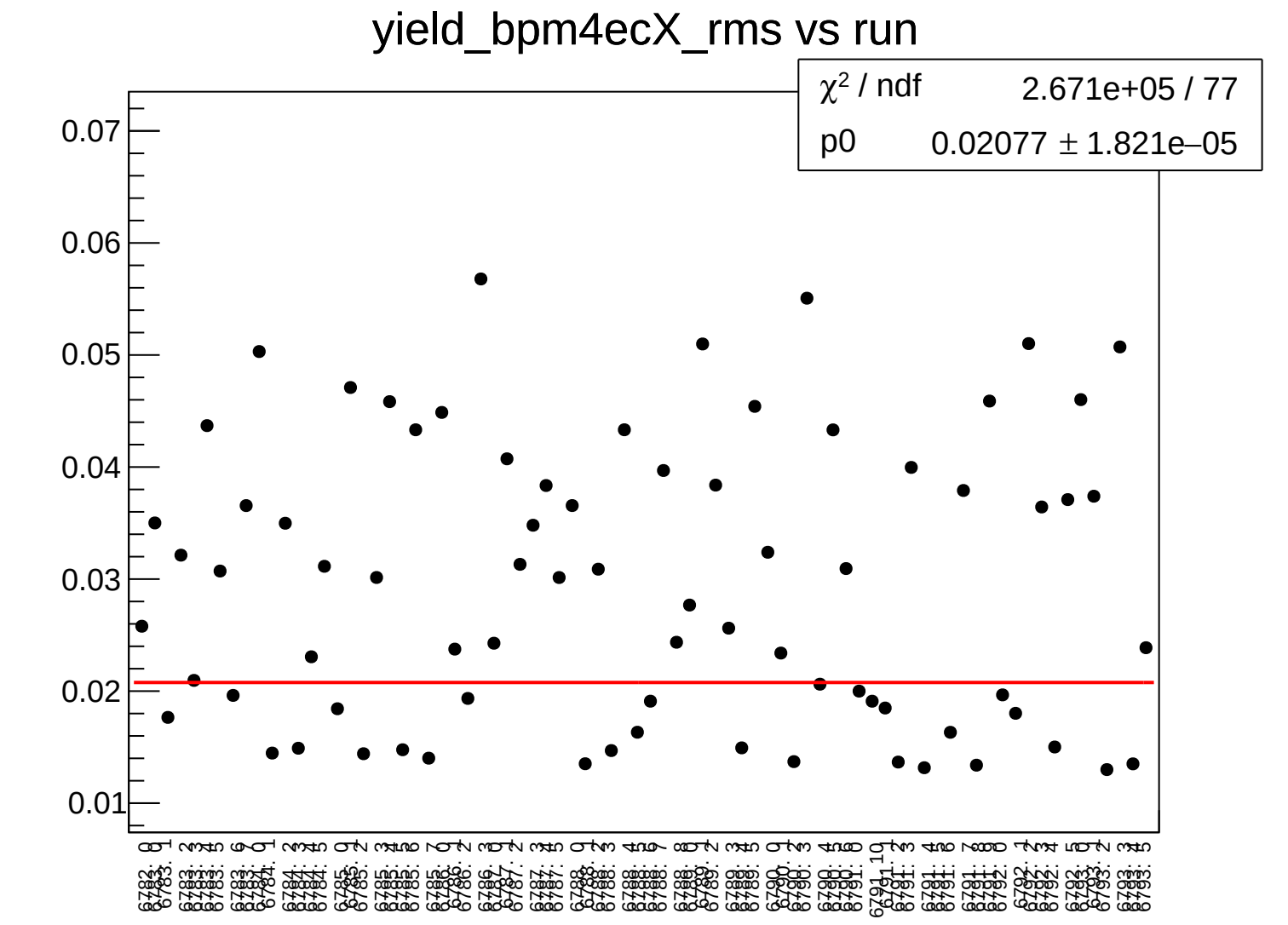

yield_bpm4acX_rms vs run
χ² / ndf 2.642e+05 / 77
p0 0.0211 ± 1.849e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

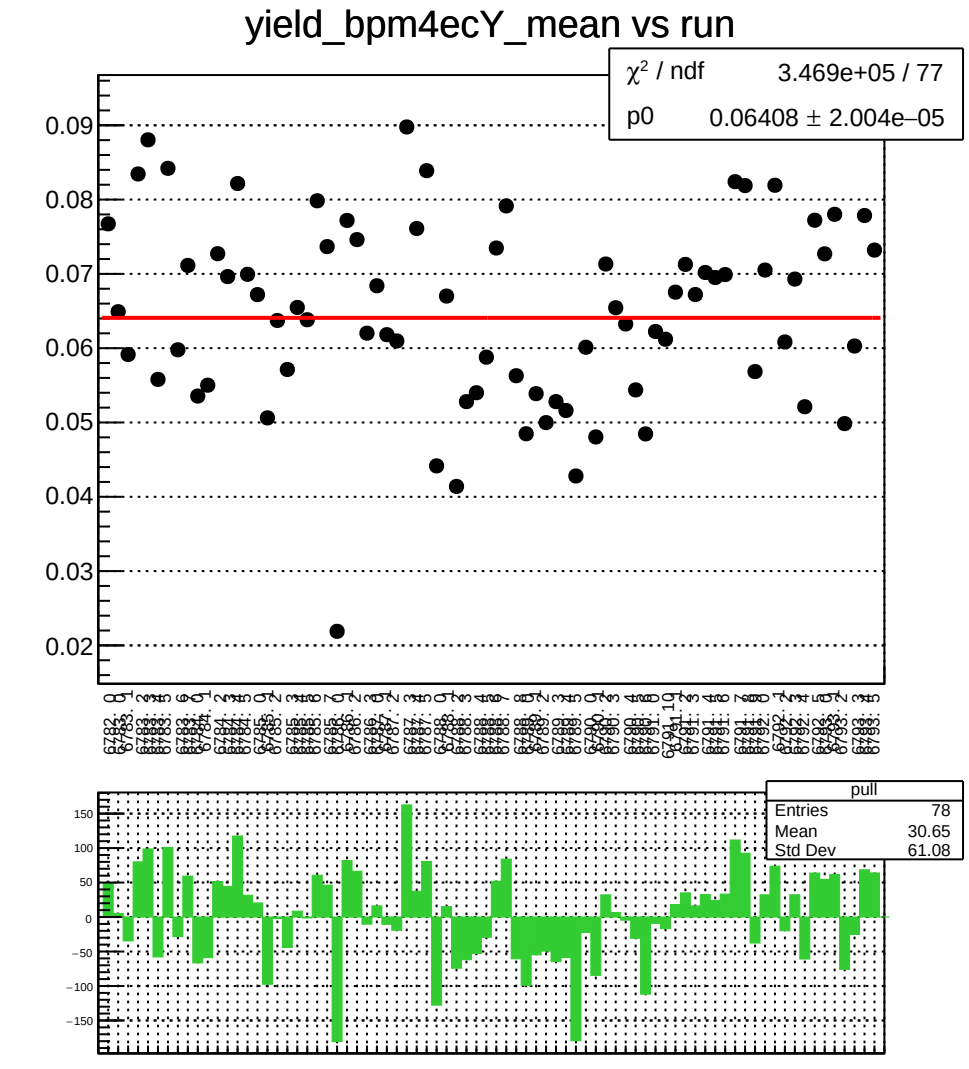

yield_bpm4acY_mean vs run
χ² / ndf 3.549e+05 / 77
p0 0.7992 ± 2.954e−05
0.84
0.82
0.8
0.78
0.76
0.74
pull
Entries 78
Mean 28.08
Std Dev 14.55
150
100
50
0
−50
−100
−150

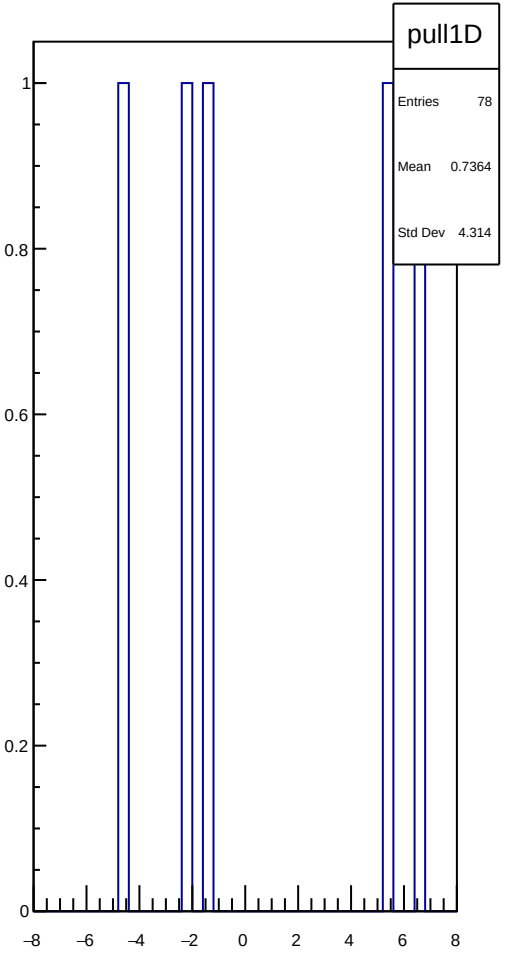

pull1D
Entries 78
Mean −1.264
Std Dev 3.671
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

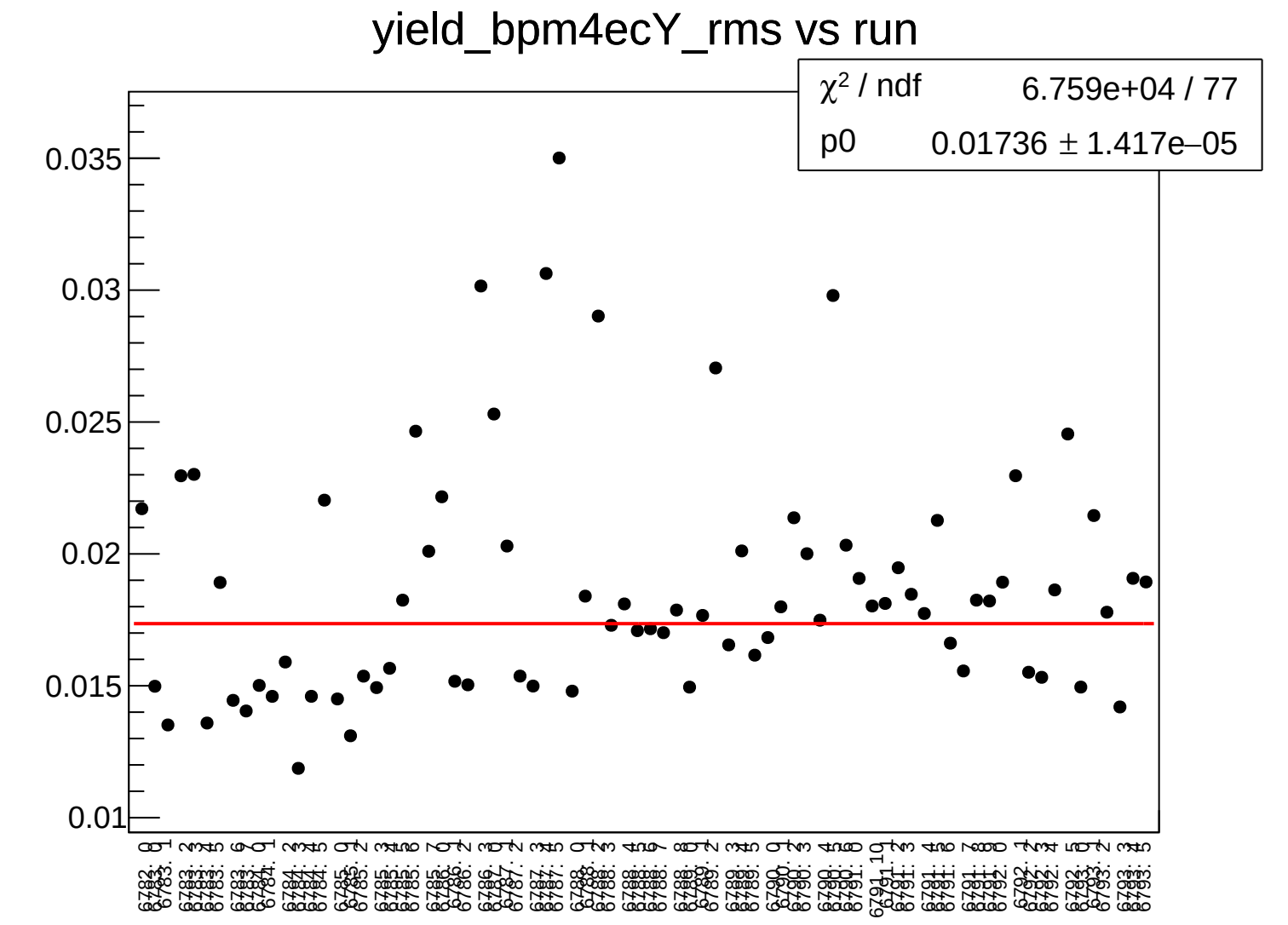

yield_bpm4acY_rms vs run
χ² / ndf 8.314e+04 / 77
p0 0.02545 ± 2.089e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

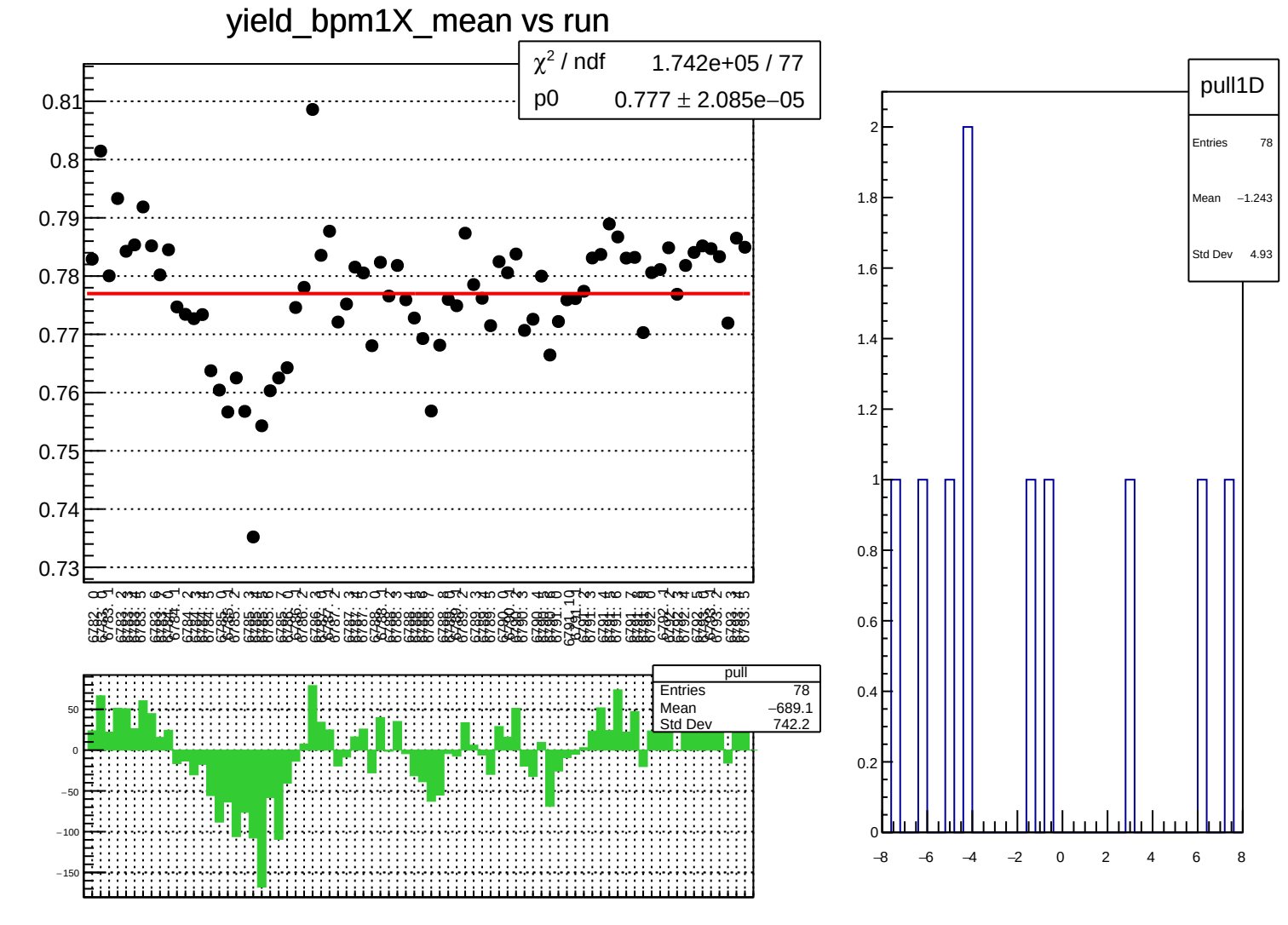

yield_bpm4ecX_mean vs run
χ² / ndf 3.478e+05 / 77
p0 −0.02545 ± 2.576e−05
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 78
Mean 41.8
Std Dev 23.3
150
100
50
0
−50
−100
−150
pull1D
Entries 78
Mean −1.101
Std Dev 4.653
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

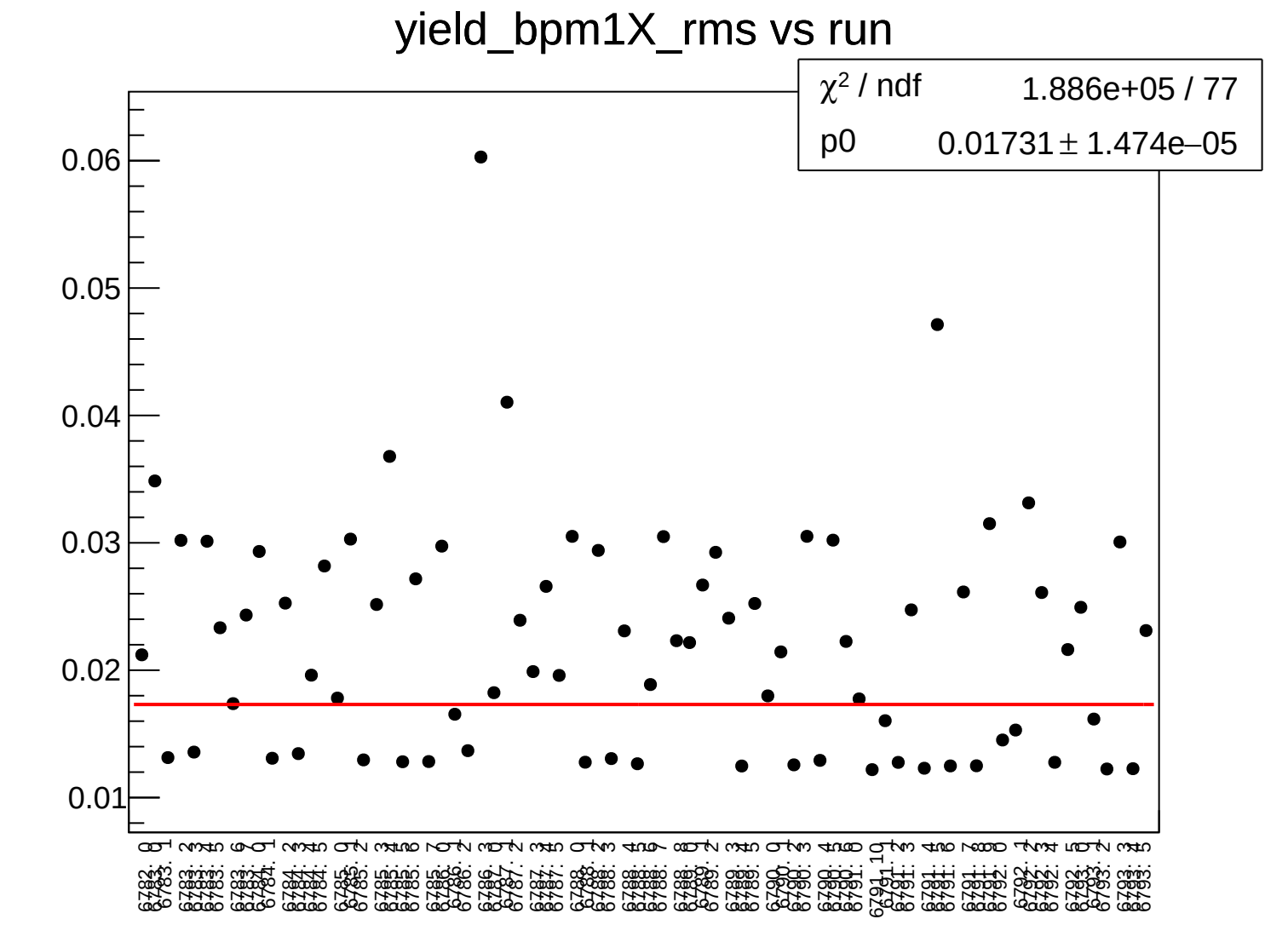

yield_bpm4ecX_rms vs run
χ² / ndf 2.671e+05 / 77
p0 0.02077 ± 1.821e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

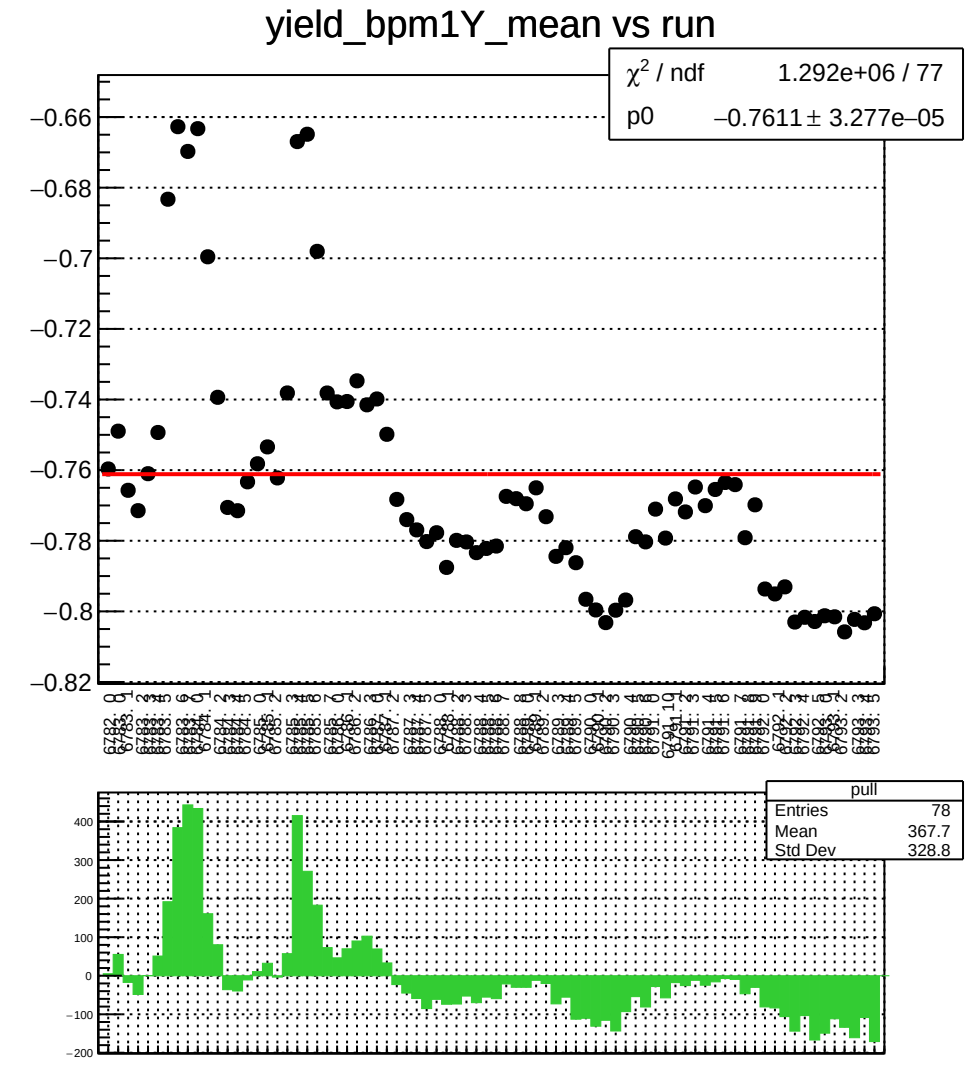

yield_bpm4ecY_mean vs run
χ² / ndf 3.469e+05 / 77
p0 0.06408 ± 2.004e−05
pull
Entries 78
Mean 30.65
Std Dev 61.08

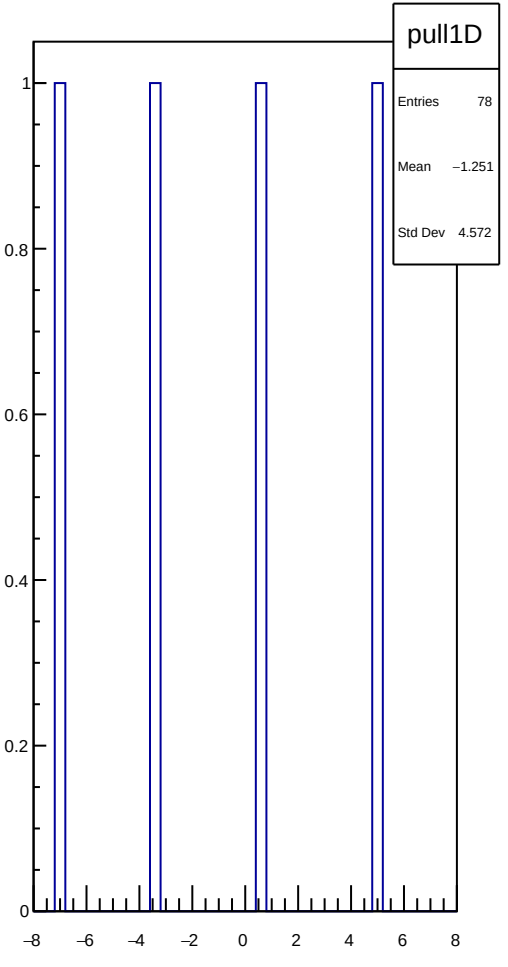

pull1D
Entries 78
Mean 0.7364
Std Dev 4.314

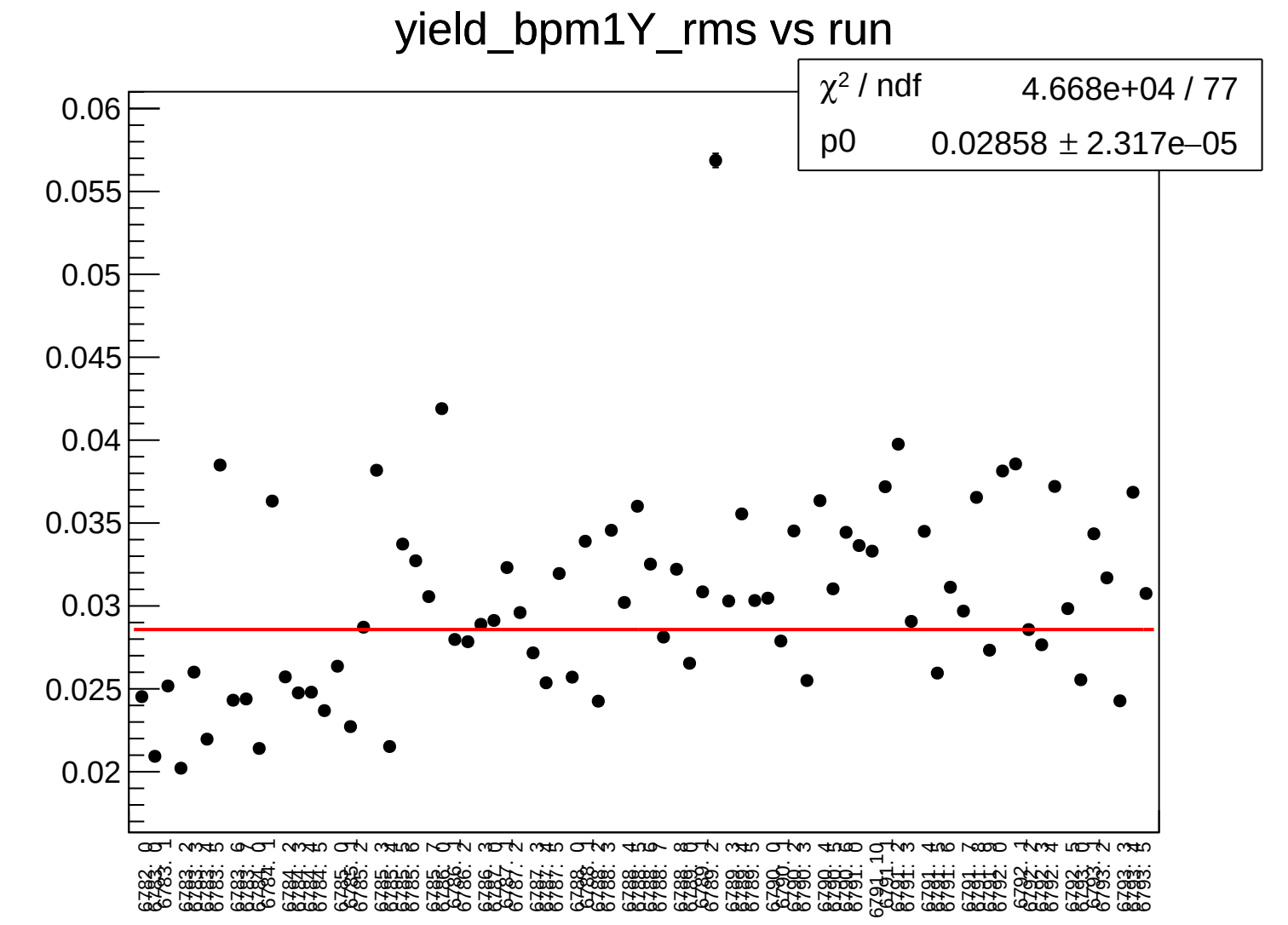

yield_bpm4ecY_rms vs run
χ² / ndf 6.759e+04 / 77
p0 0.01736 ± 1.417e–05
0.035
0.03
0.025
0.02
0.015
0.01

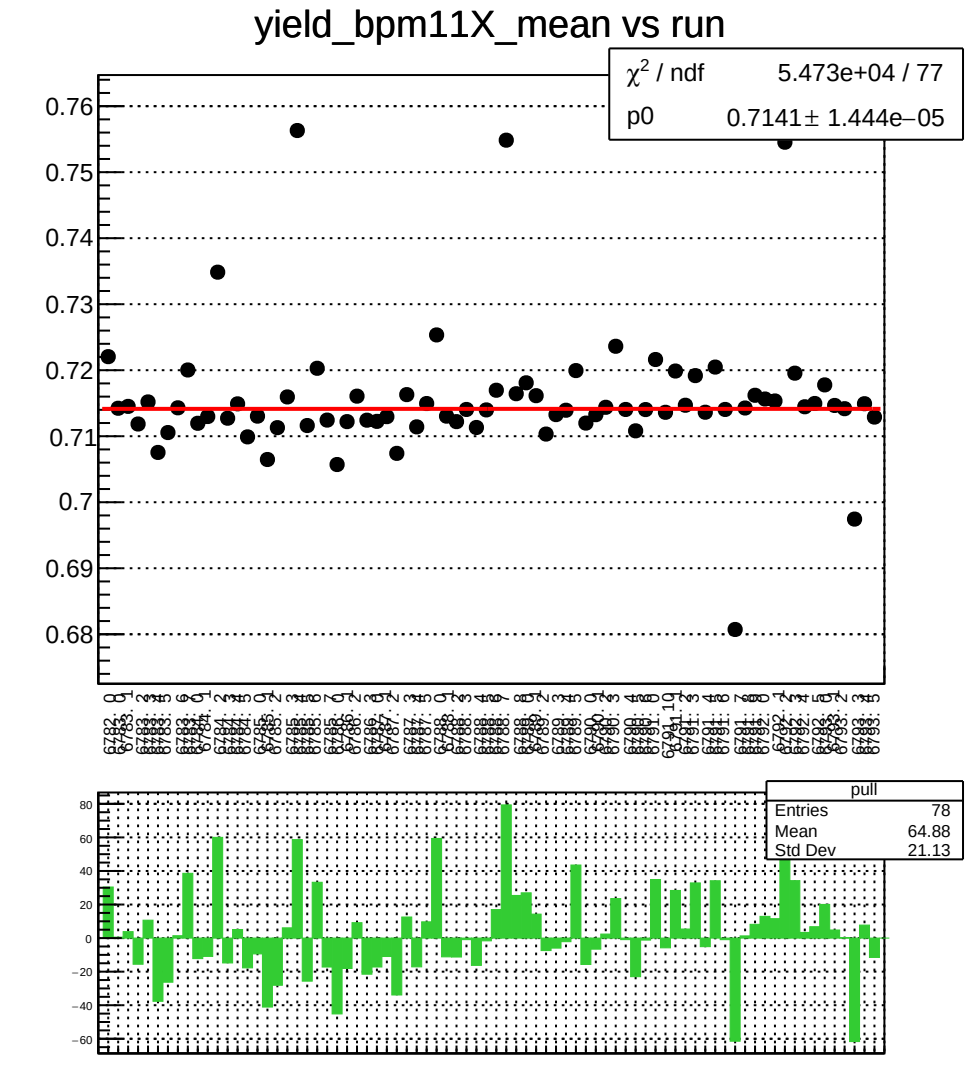

yield_bpm1X_mean vs run
χ² / ndf 1.742e+05 / 77
p0 0.777 ± 2.085e−05
pull
Entries 78
Mean −689.1
Std Dev 742.2
pull1D
Entries 78
Mean −1.243
Std Dev 4.93

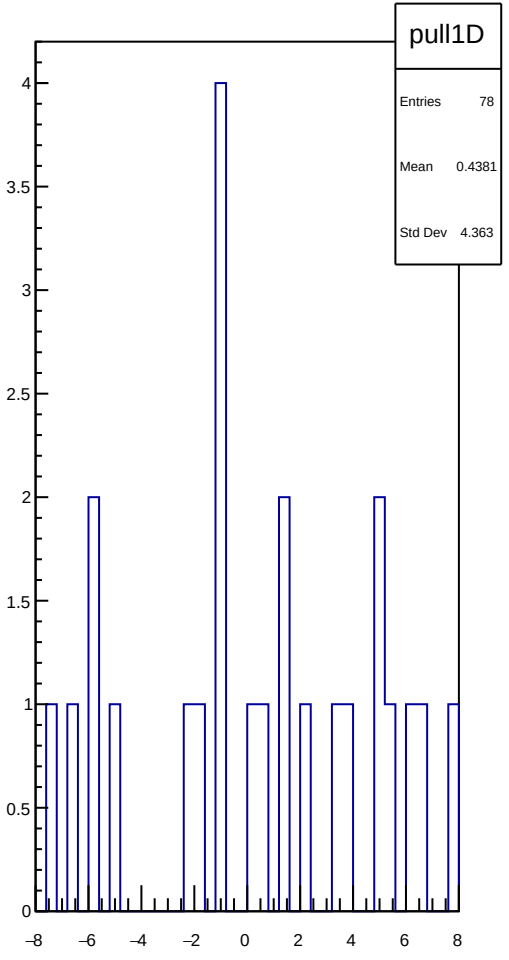

yield_bpm1X_rms vs run
χ² / ndf 1.886e+05 / 77
p0 0.01731 ± 1.474e–05
0.06
0.05
0.04
0.03
0.02
0.01

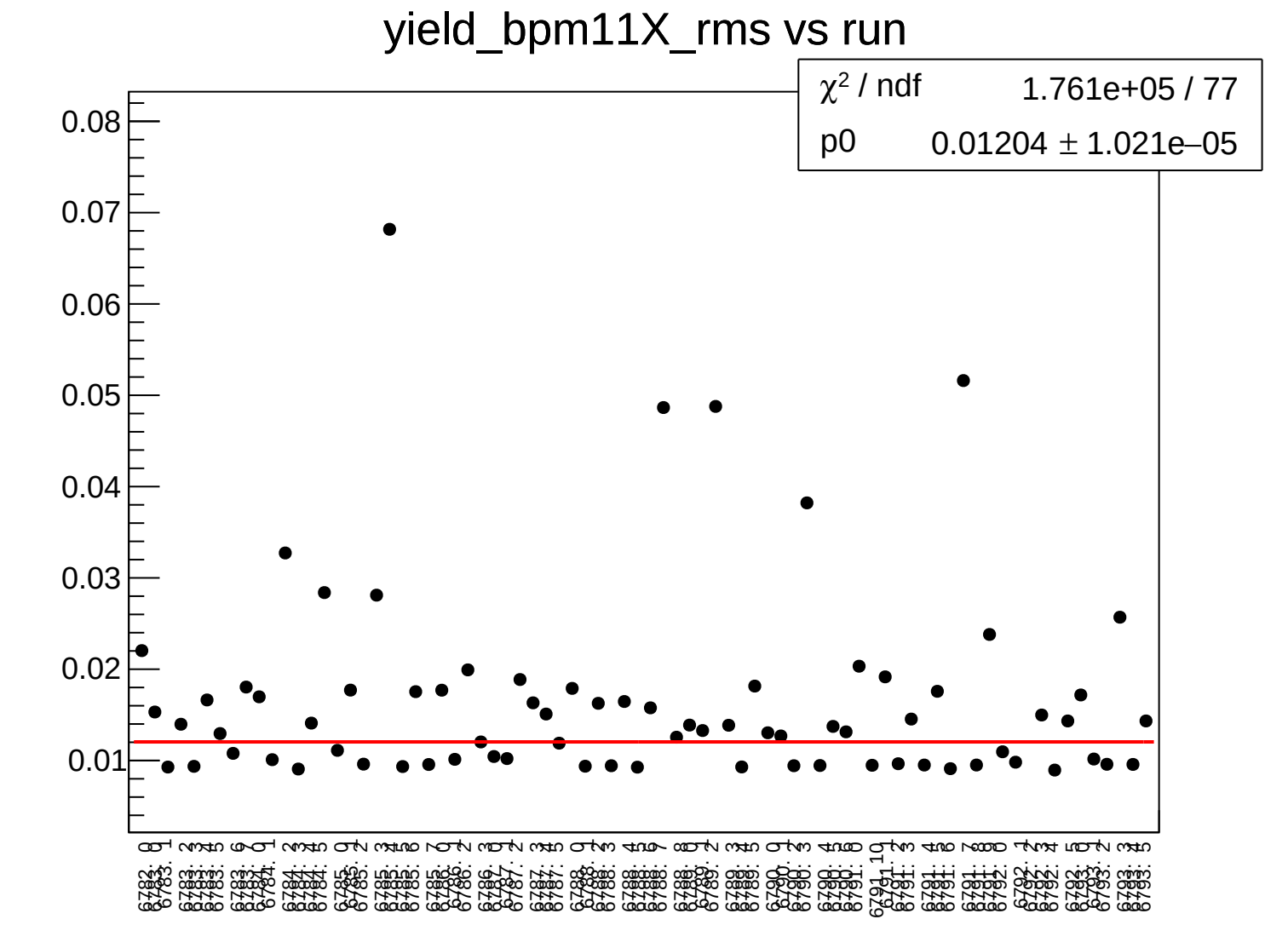

yield_bpm1Y_mean vs run
χ² / ndf 1.292e+06 / 77
p0 −0.7611 ± 3.277e−05
pull
Entries 78
Mean 367.7
Std Dev 328.8

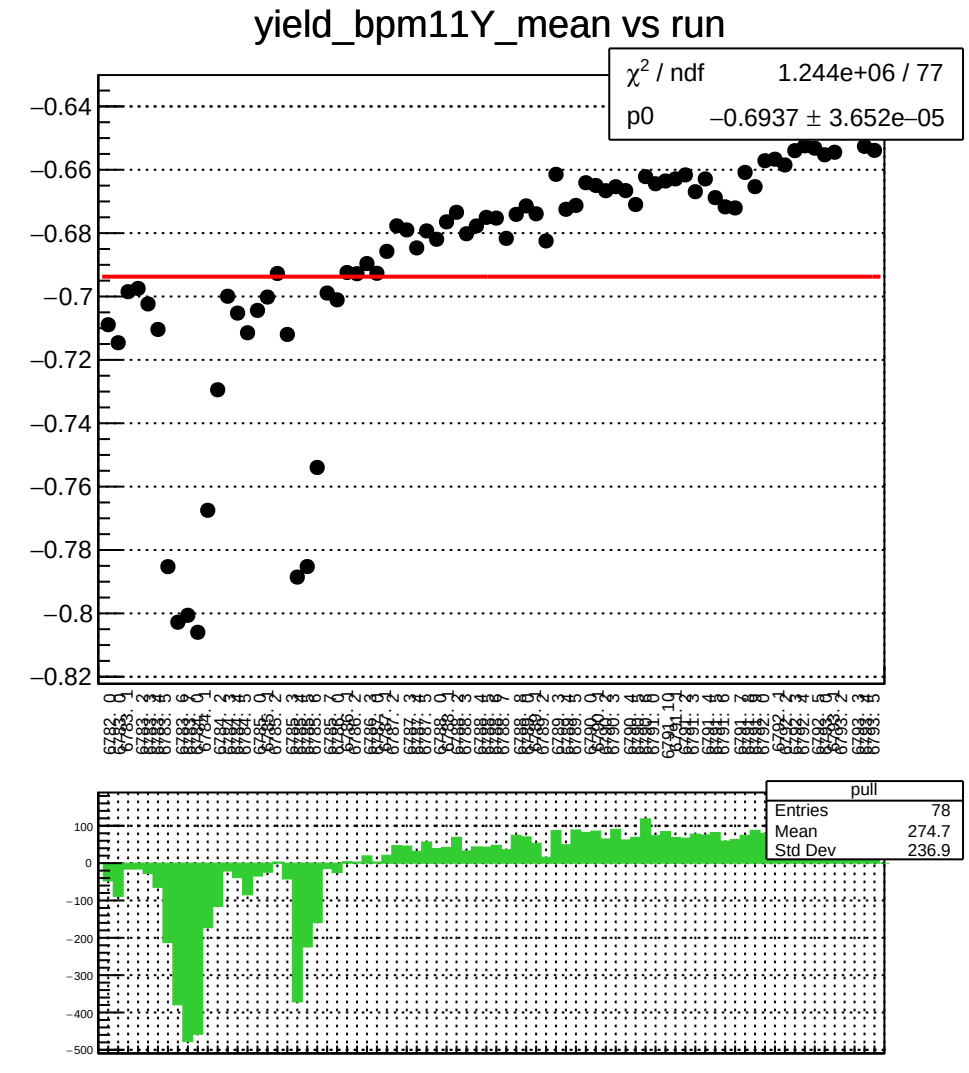

pull1D
Entries 78
Mean −1.251
Std Dev 4.572

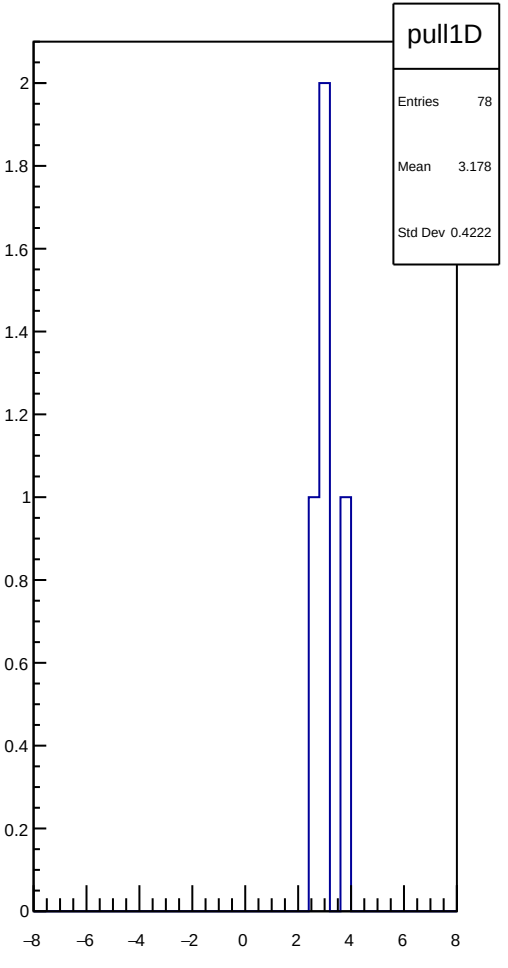

yield_bpm1Y_rms vs run
χ^2 / ndf 4.668e+04 / 77
p0 0.02858 ± 2.317e–05
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02

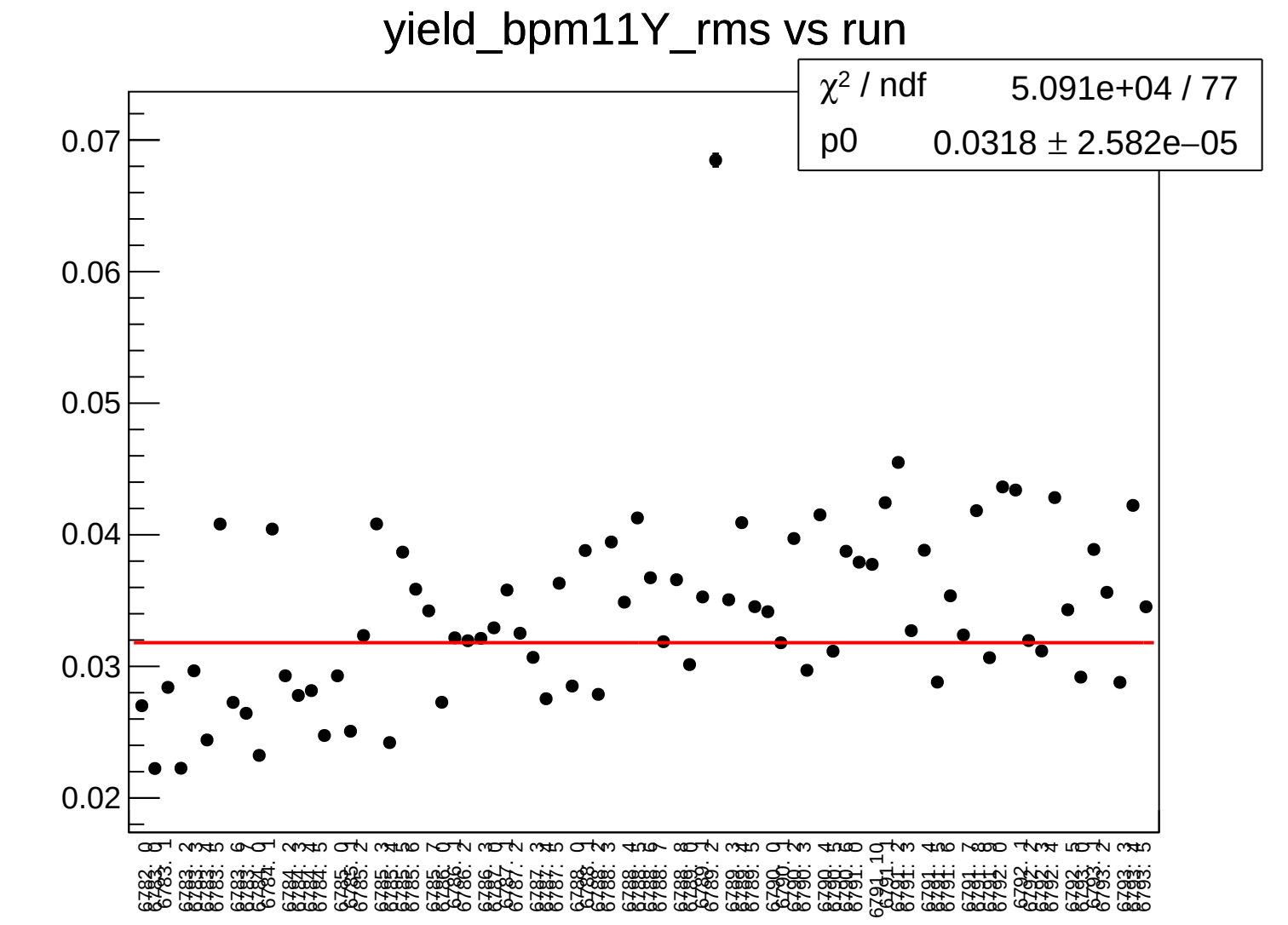

yield_bpm11X_mean vs run
χ² / ndf 5.473e+04 / 77
p0 0.7141 ± 1.444e−05
pull
Entries 78
Mean 64.88
Std Dev 21.13

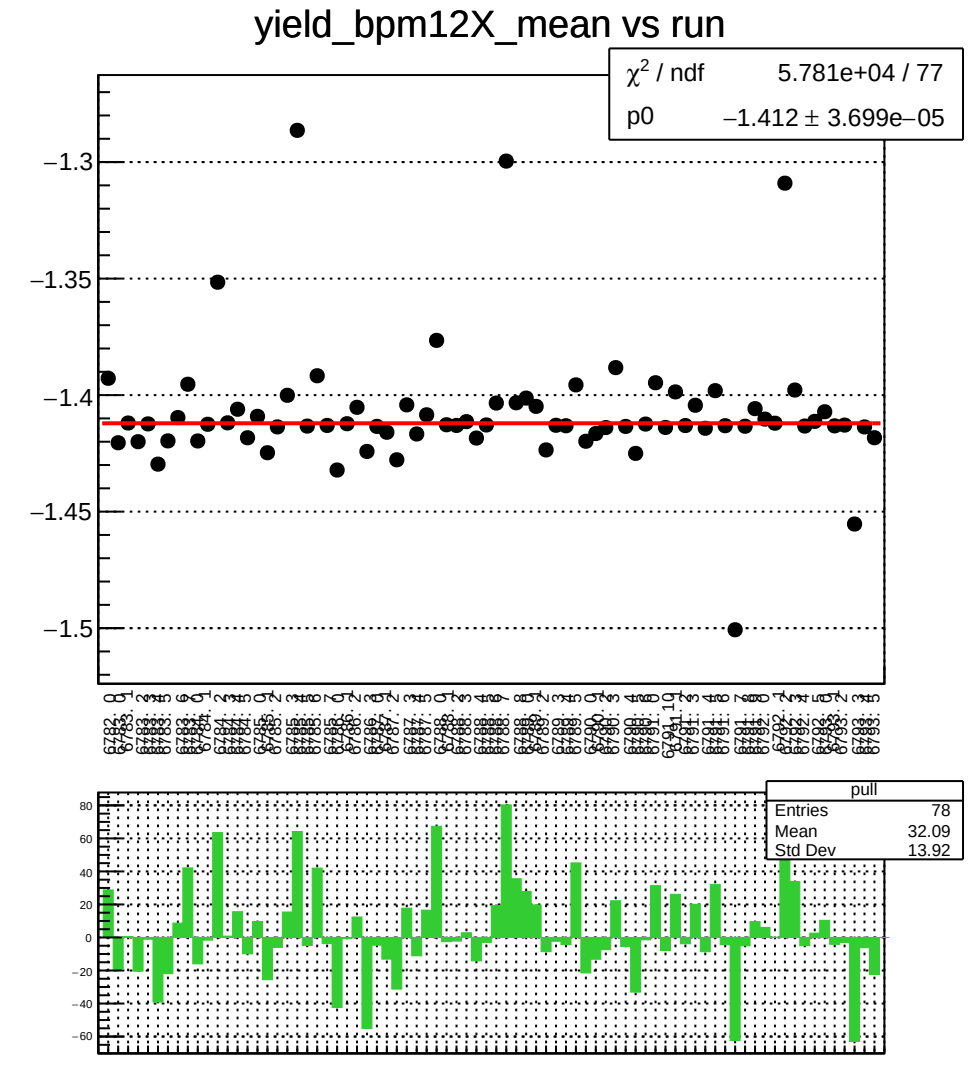

pull1D
Entries 78
Mean 0.4381
Std Dev 4.363

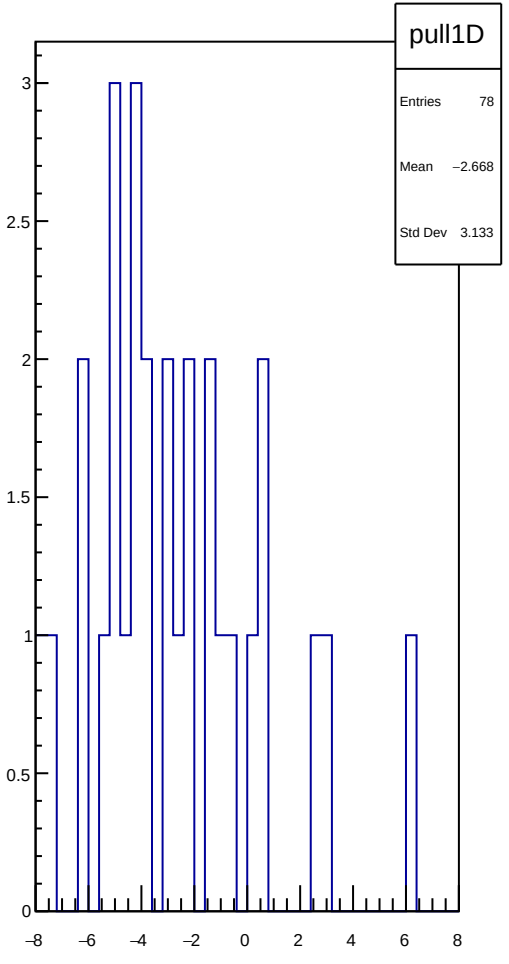

yield_bpm11X_rms vs run
χ² / ndf 1.761e+05 / 77
p0 0.01204 ± 1.021e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

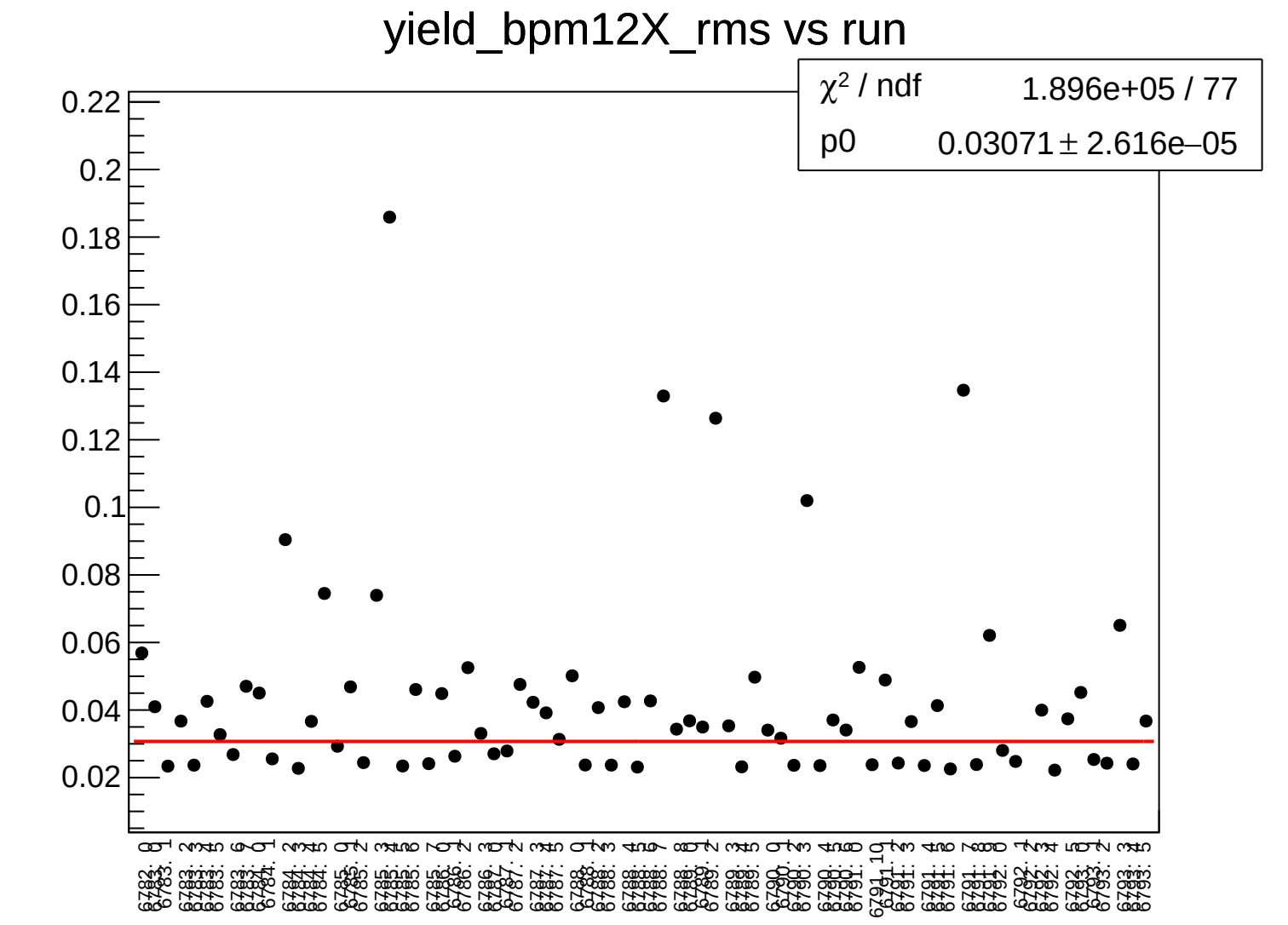

yield_bpm11Y_mean vs run
χ² / ndf 1.244e+06 / 77
p0 −0.6937 ± 3.652e−05
pull
Entries 78
Mean 274.7
Std Dev 236.9

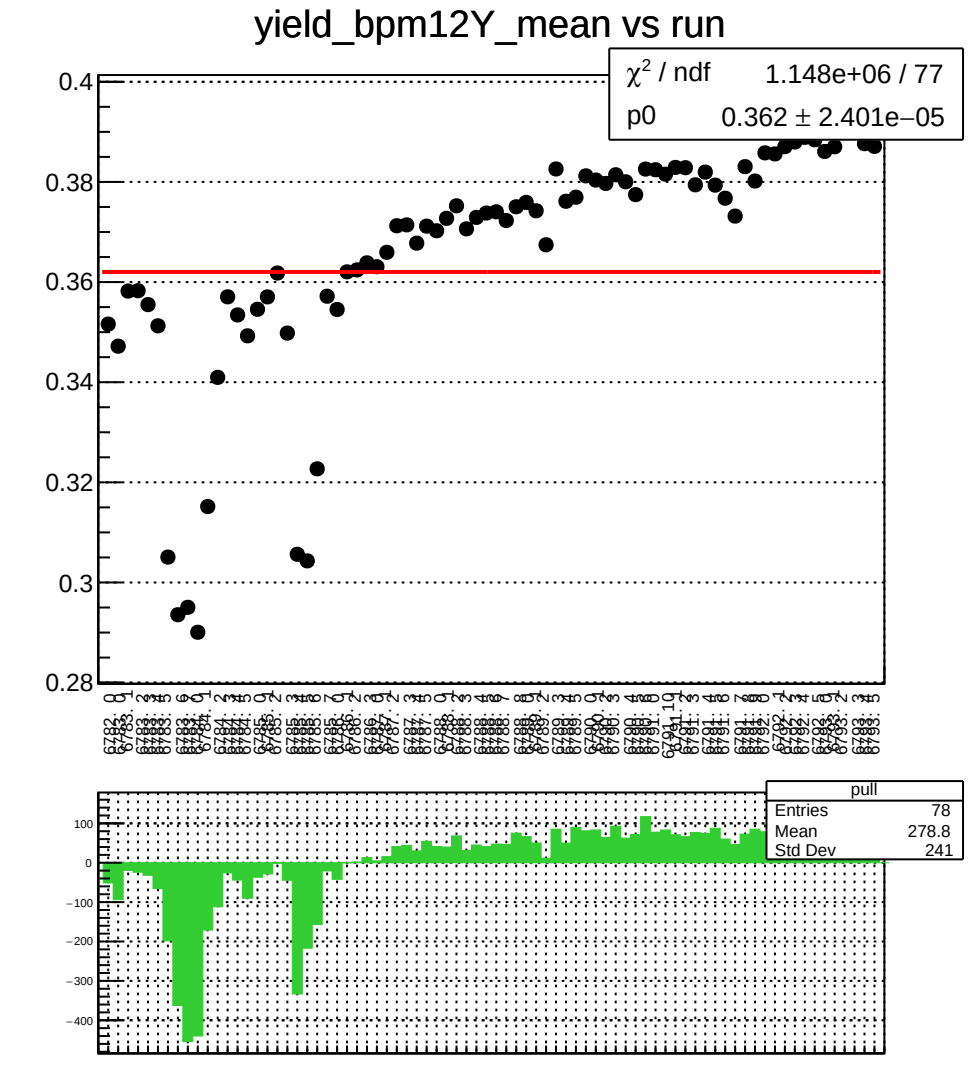

pull1D
Entries 78
Mean 3.178
Std Dev 0.4222

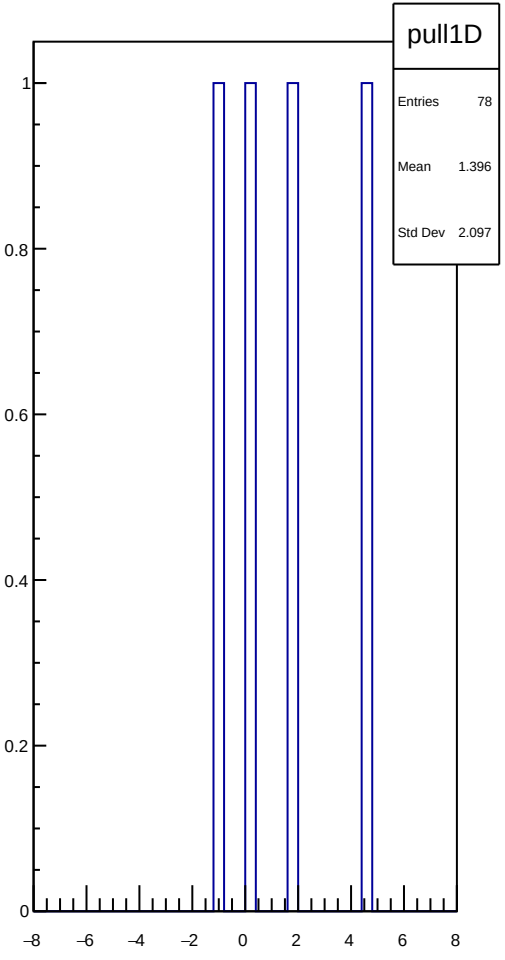

yield_bpm11Y_rms vs run
χ² / ndf 5.091e+04 / 77
p0 0.0318 ± 2.582e−05
0.07
0.06
0.05
0.04
0.03
0.02

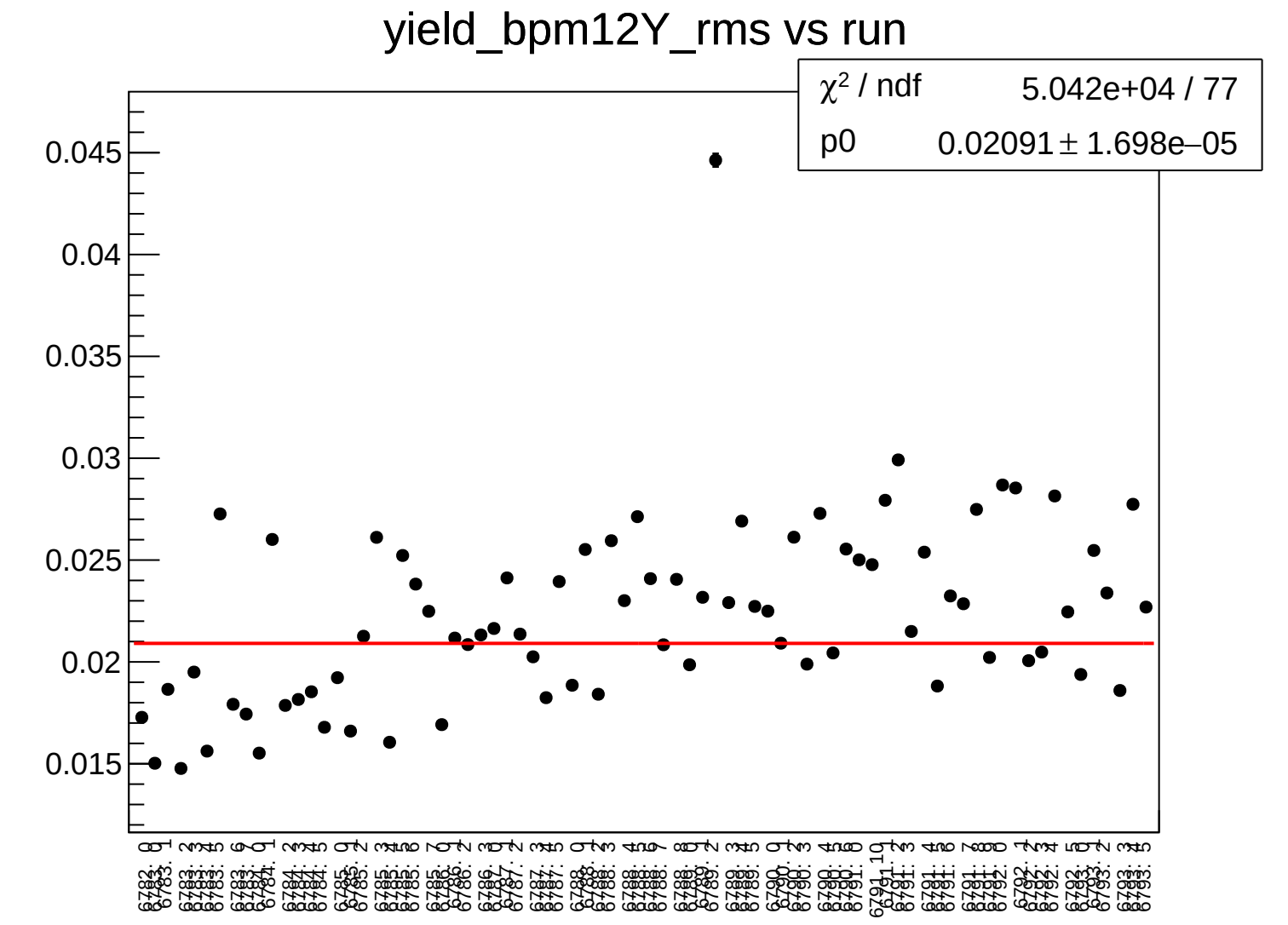

yield_bpm12X_mean vs run
χ² / ndf 5.781e+04 / 77
p0 −1.412 ± 3.699e−05
−1.3
−1.35
−1.4
−1.45
−1.5
pull
Entries 78
Mean 32.09
Std Dev 13.92
80
60
40
20
0
−20
−40
−60

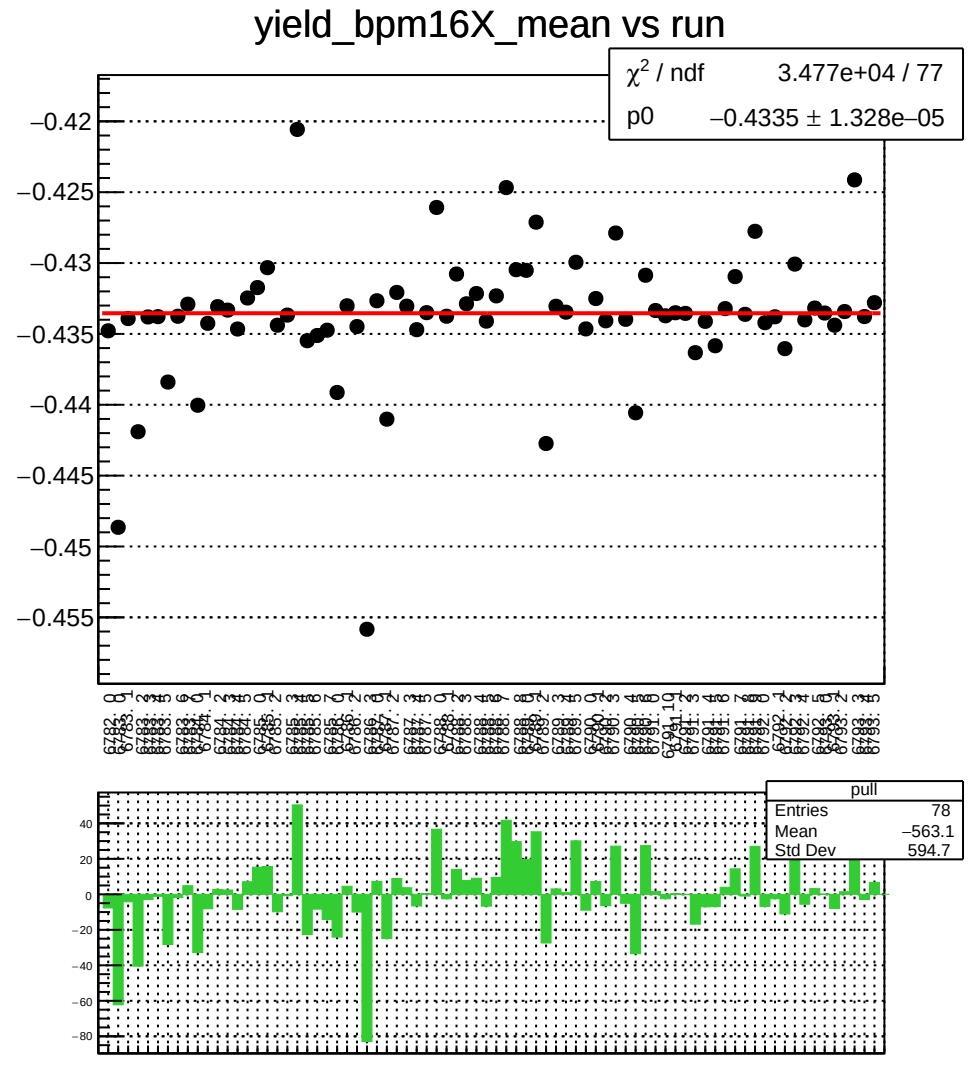

pull1D
Entries 78
Mean −2.668
Std Dev 3.133
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

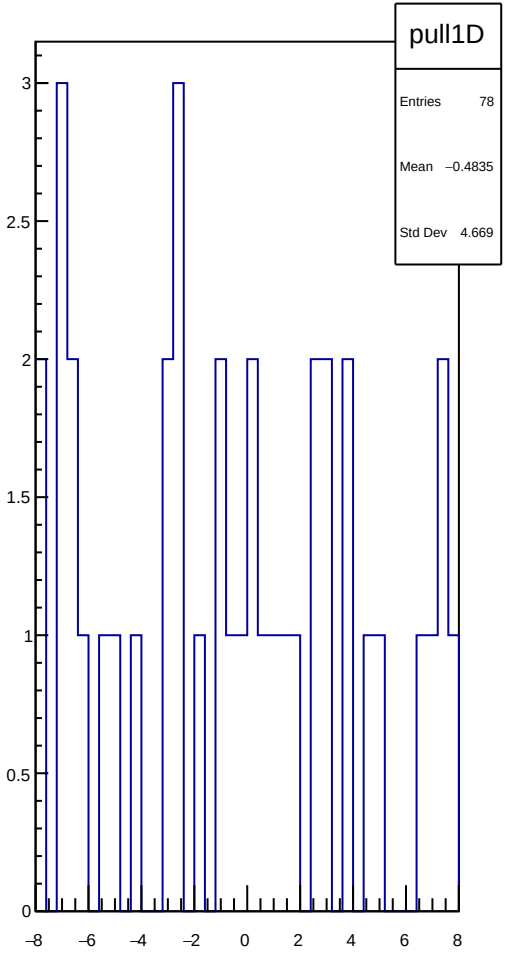

yield_bpm12X_rms vs run
χ² / ndf 1.896e+05 / 77
p0 0.03071 ± 2.616e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

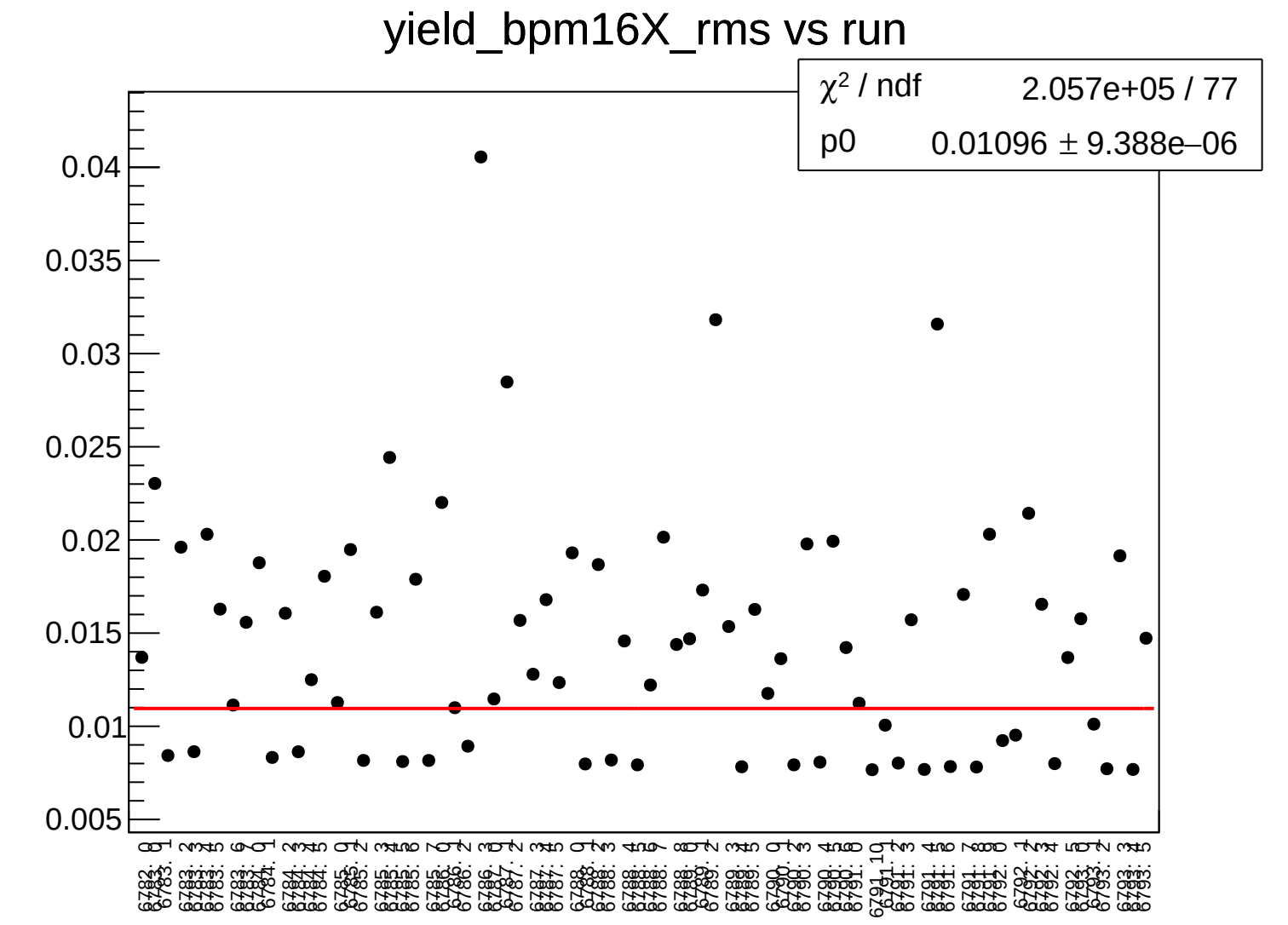

yield_bpm12Y_mean vs run
χ² / ndf 1.148e+06 / 77
p0 0.362 ± 2.401e−05
pull
Entries 78
Mean 278.8
Std Dev 241

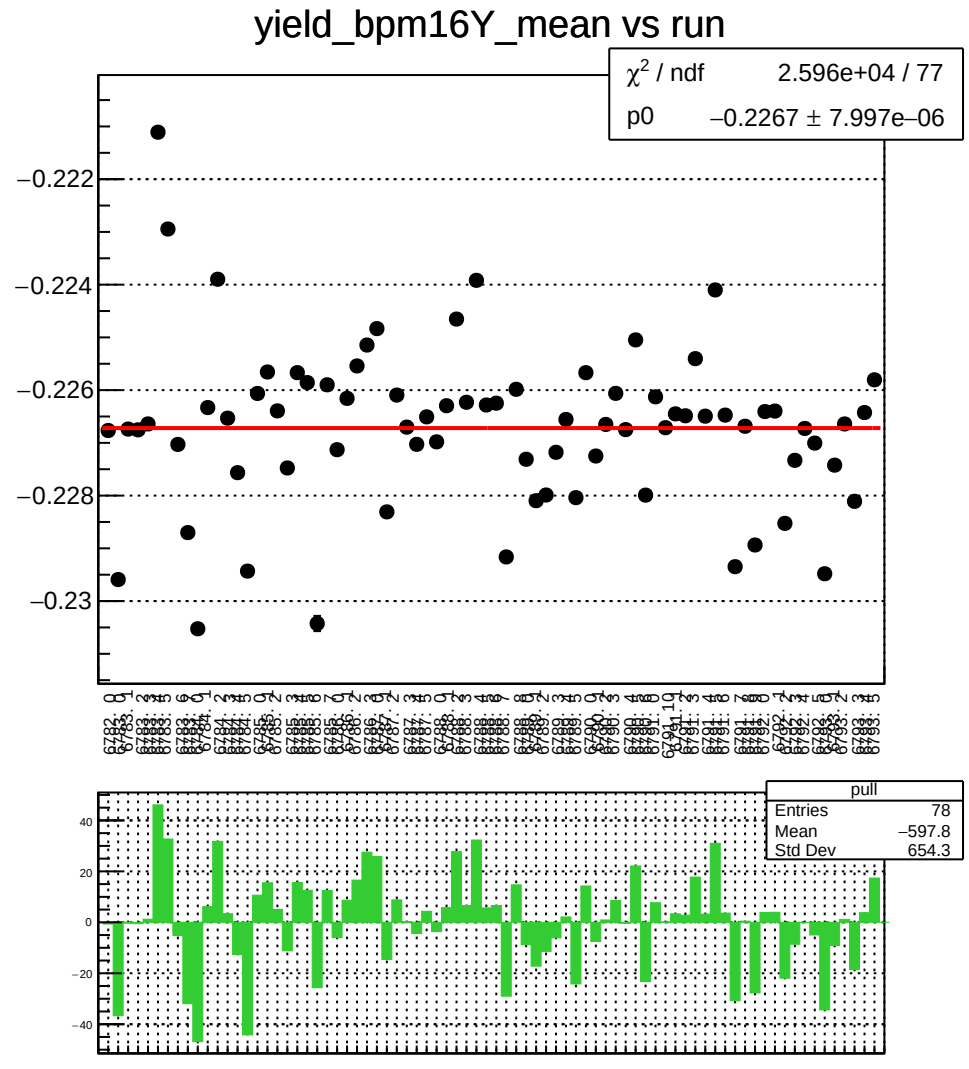

pull1D
Entries 78
Mean 1.396
Std Dev 2.097

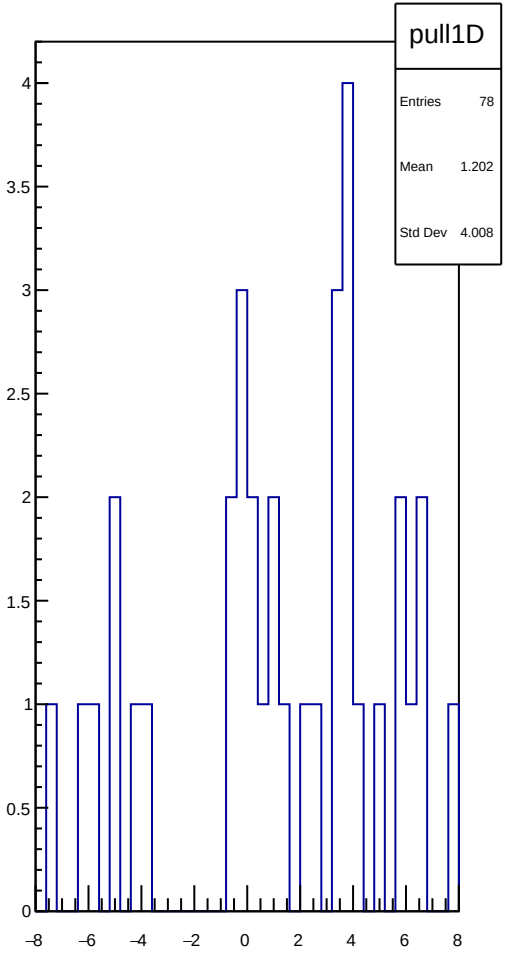

yield_bpm12Y_rms vs run
χ² / ndf 5.042e+04 / 77
p0 0.02091 ± 1.698e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

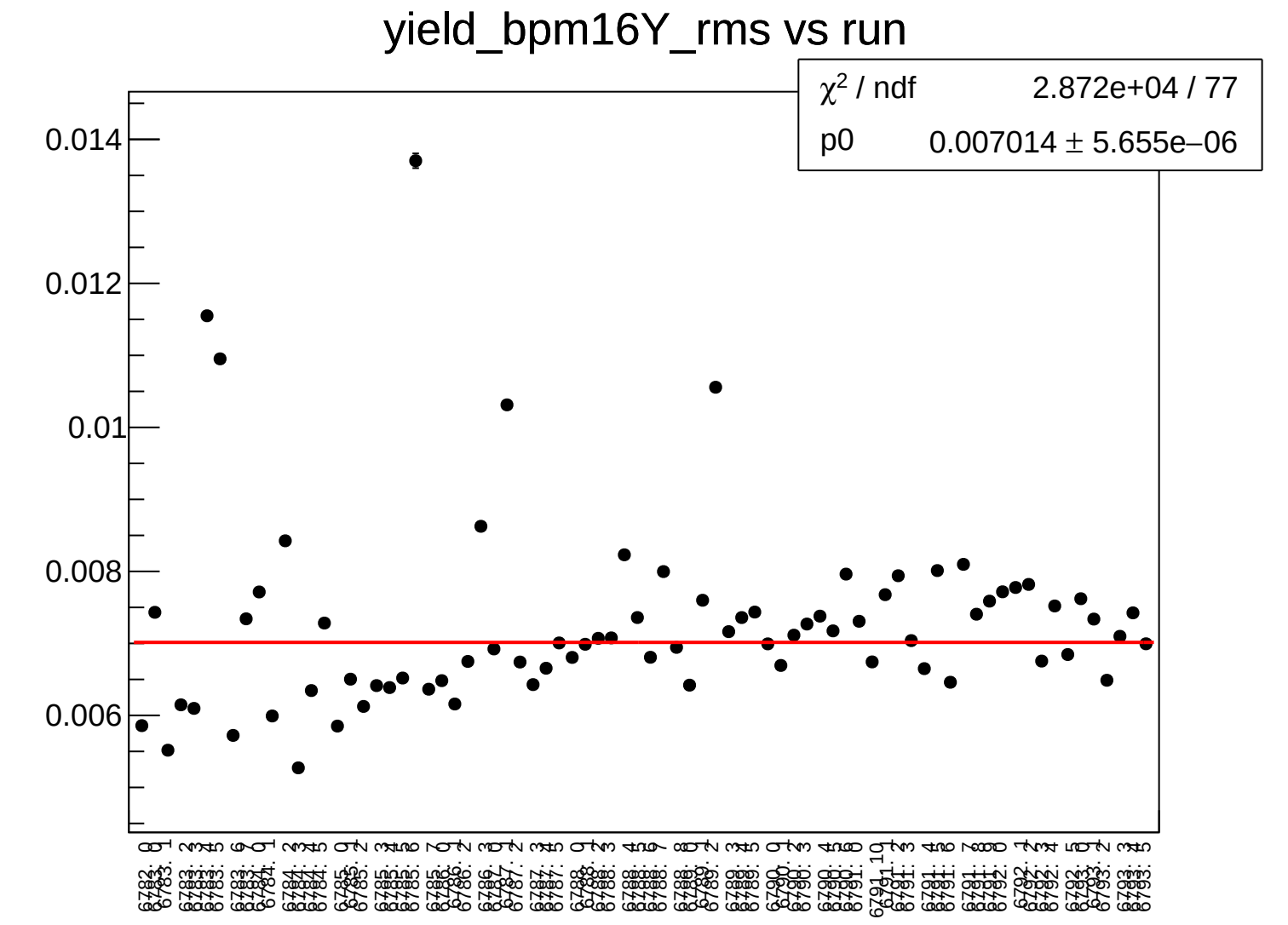

yield_bpm16X_mean vs run
χ² / ndf 3.477e+04 / 77
p0 −0.4335 ± 1.328e−05
−0.42
−0.425
−0.43
−0.435
−0.44
−0.445
−0.45
−0.455
pull
Entries 78
Mean −563.1
Std Dev 594.7
40
20
0
−20
−40
−60
−80

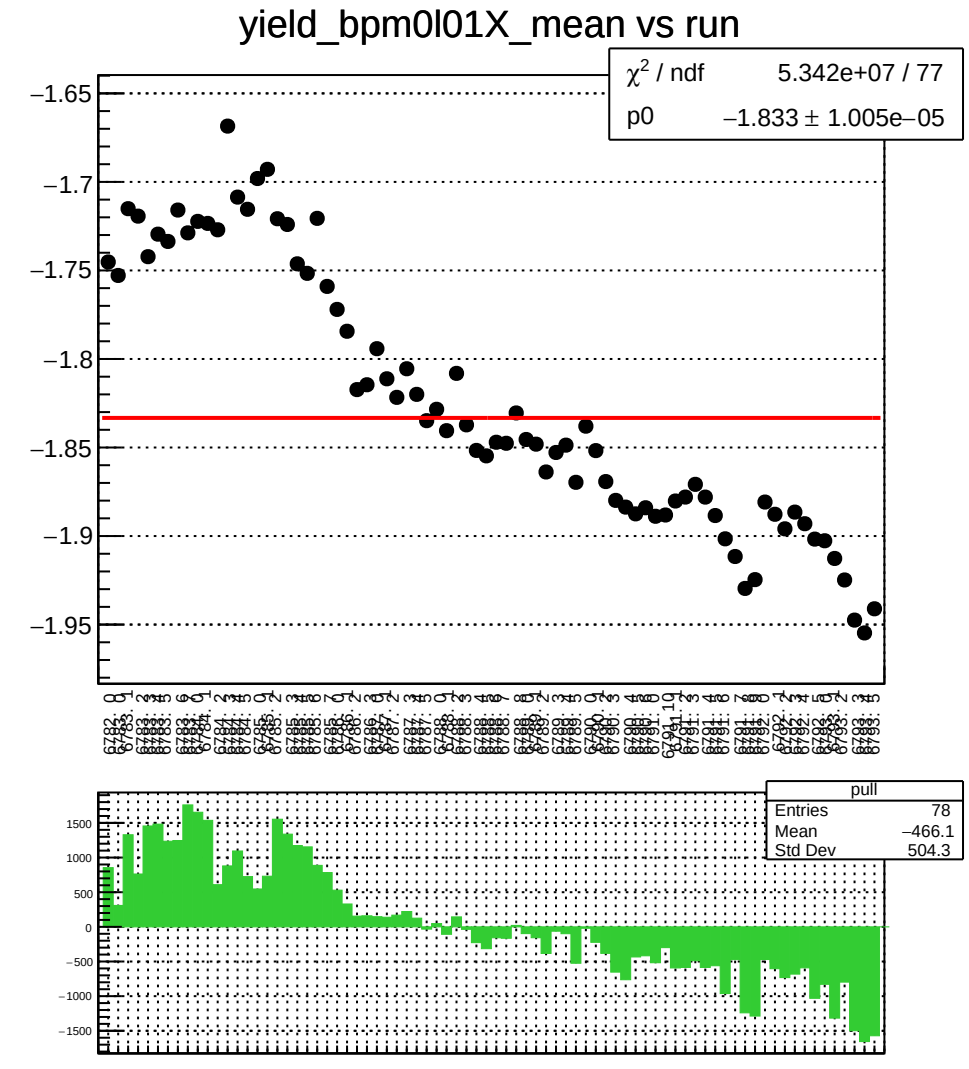

pull1D
Entries 78
Mean −0.4835
Std Dev 4.669
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

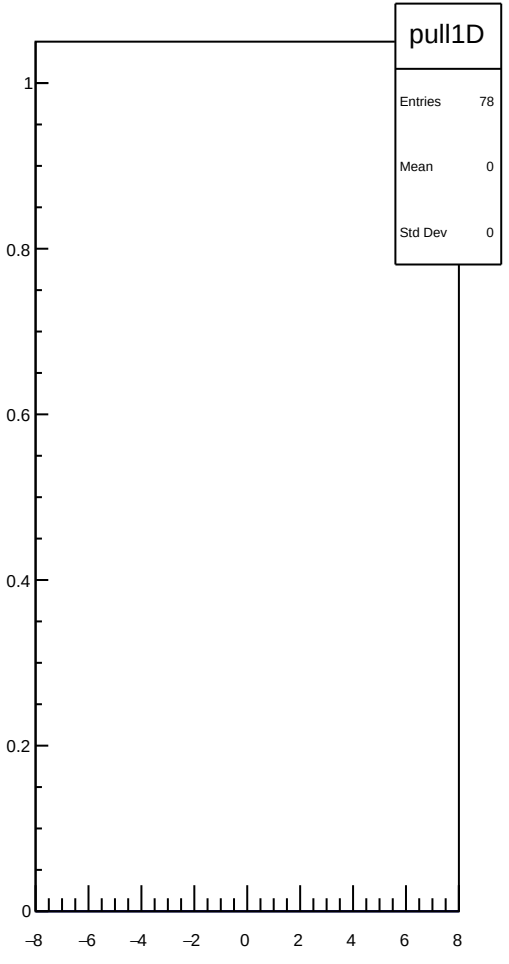

yield_bpm16X_rms vs run
χ² / ndf 2.057e+05 / 77
p0 0.01096 ± 9.388e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

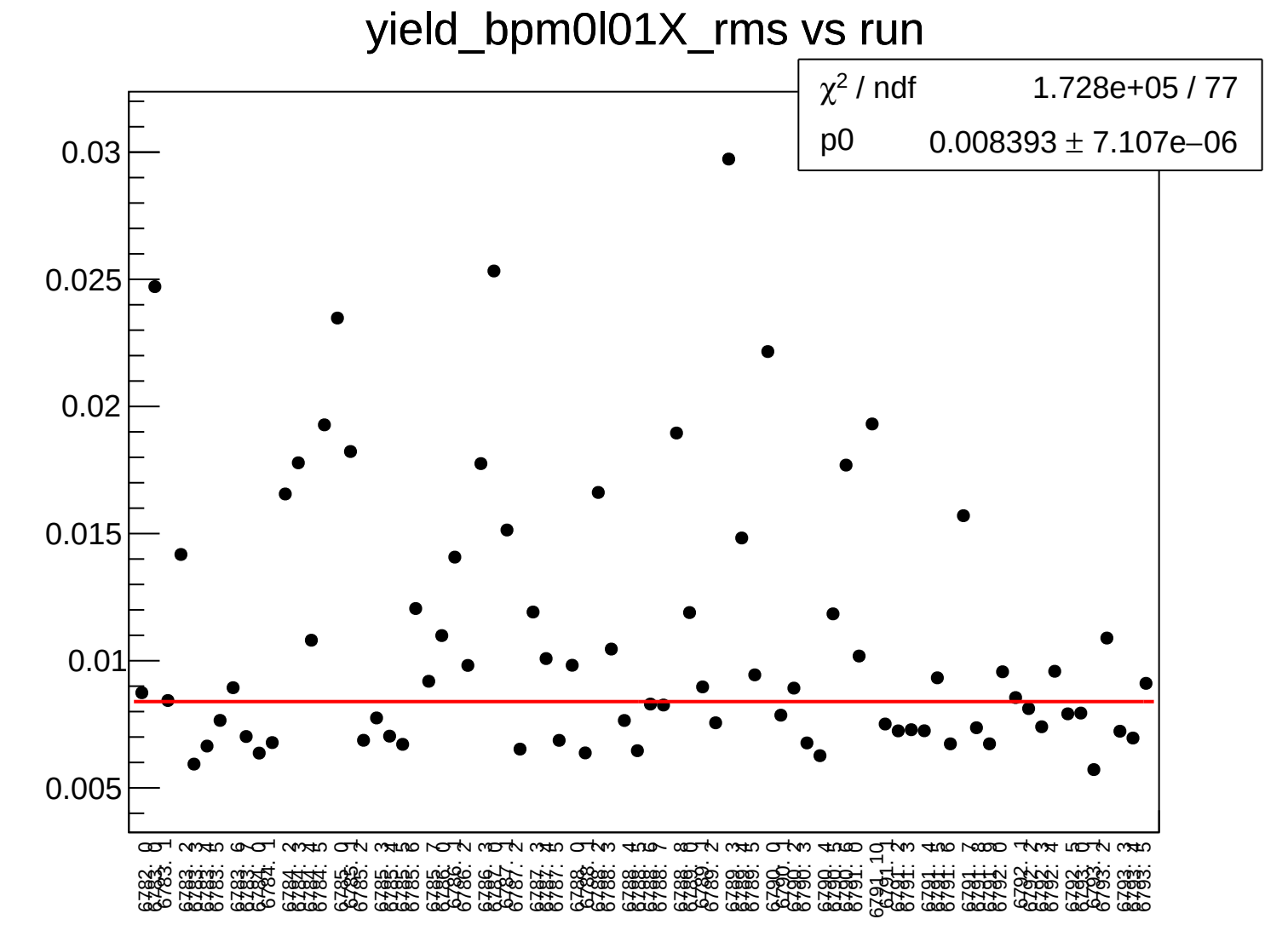

yield_bpm16Y_mean vs run
χ² / ndf 2.596e+04 / 77
p0 −0.2267 ± 7.997e−06
−0.222
−0.224
−0.226
−0.228
−0.23
pull
Entries 78
Mean −597.8
Std Dev 654.3
40
20
0
−20
−40

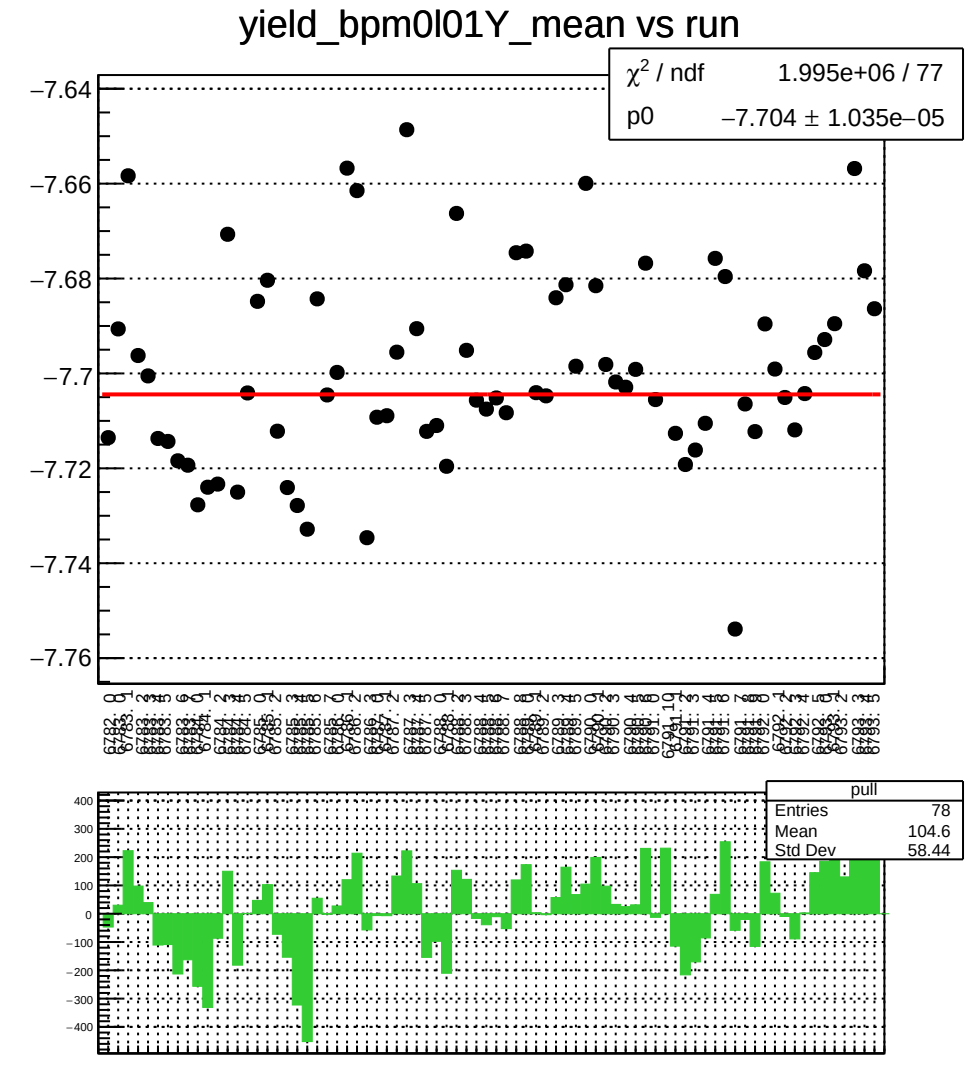

pull1D
Entries 78
Mean 1.202
Std Dev 4.008
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

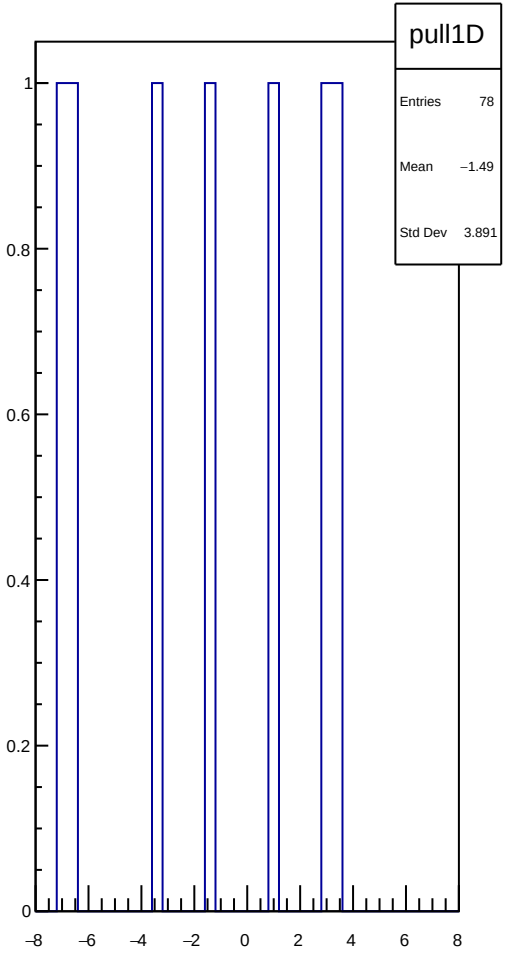

yield_bpm16Y_rms vs run
χ² / ndf 2.872e+04 / 77
p0 0.007014 ± 5.655e−06
0.014
0.012
0.01
0.008
0.006


yield_bpm0l01X_mean vs run
χ² / ndf 5.342e+07 / 77
p0 −1.833 ± 1.005e−05
−1.65
−1.7
−1.75
−1.8
−1.85
−1.9
−1.95
pull
Entries 78
Mean −466.1
Std Dev 504.3
1500
1000
500
0
−500
−1000
−1500

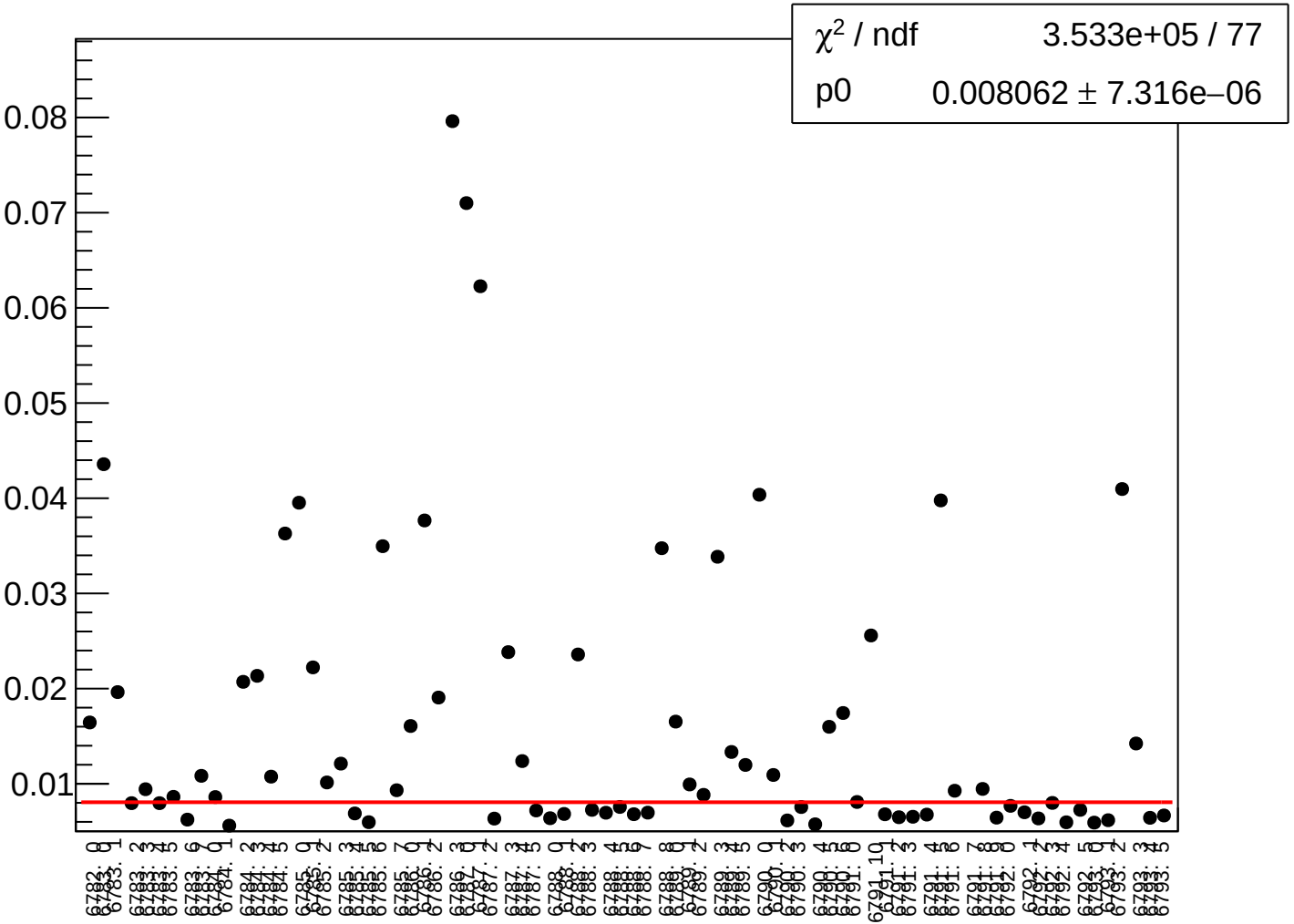

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

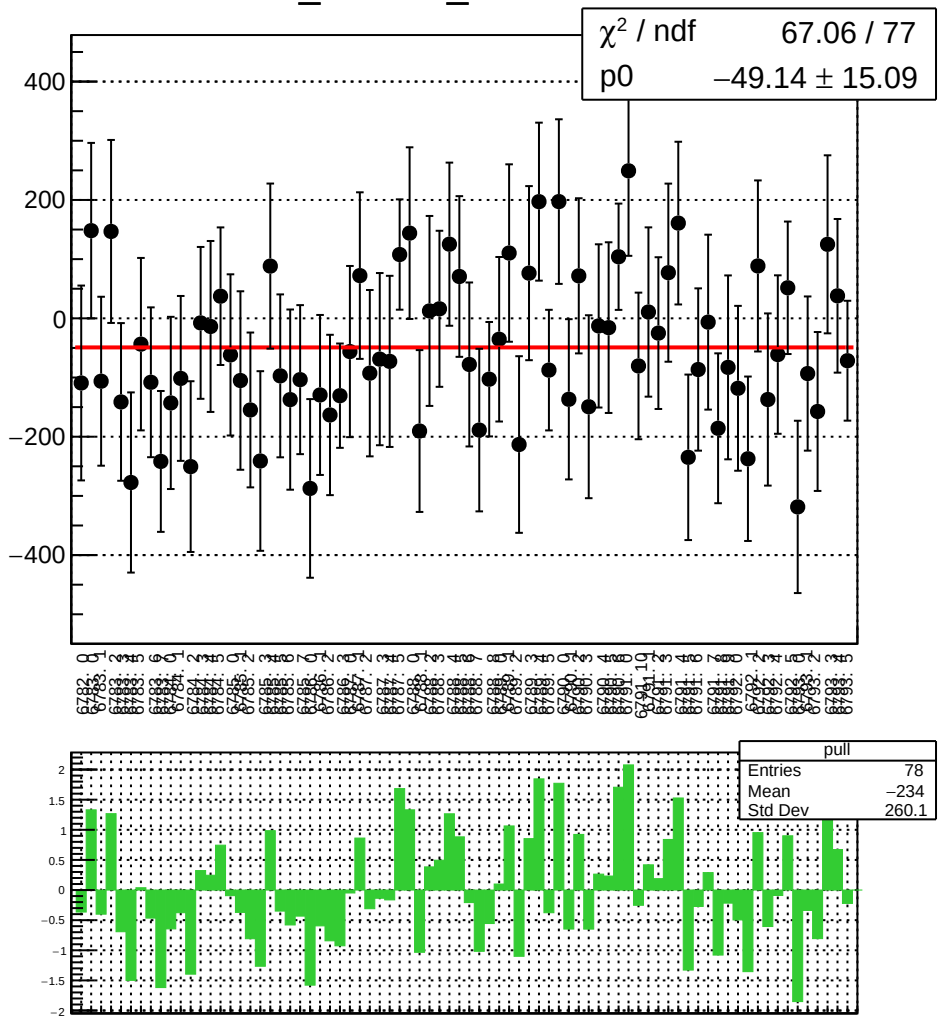

yield_bpm0l01X_rms vs run
χ² / ndf 1.728e+05 / 77
p0 0.008393 ± 7.107e−06
0.03
0.025
0.02
0.015
0.01
0.005

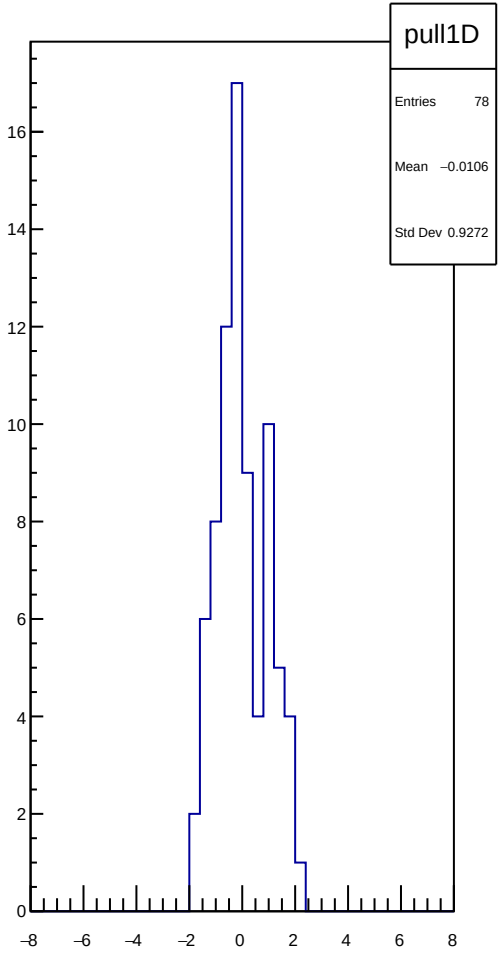

yield_bpm0l01Y_mean vs run
χ² / ndf 1.995e+06 / 77
p0 −7.704 ± 1.035e−05
−7.64
−7.66
−7.68
−7.7
−7.72
−7.74
−7.76
pull
Entries 78
Mean 104.6
Std Dev 58.44
400
300
200
100
0
−100
−200
−300
−400

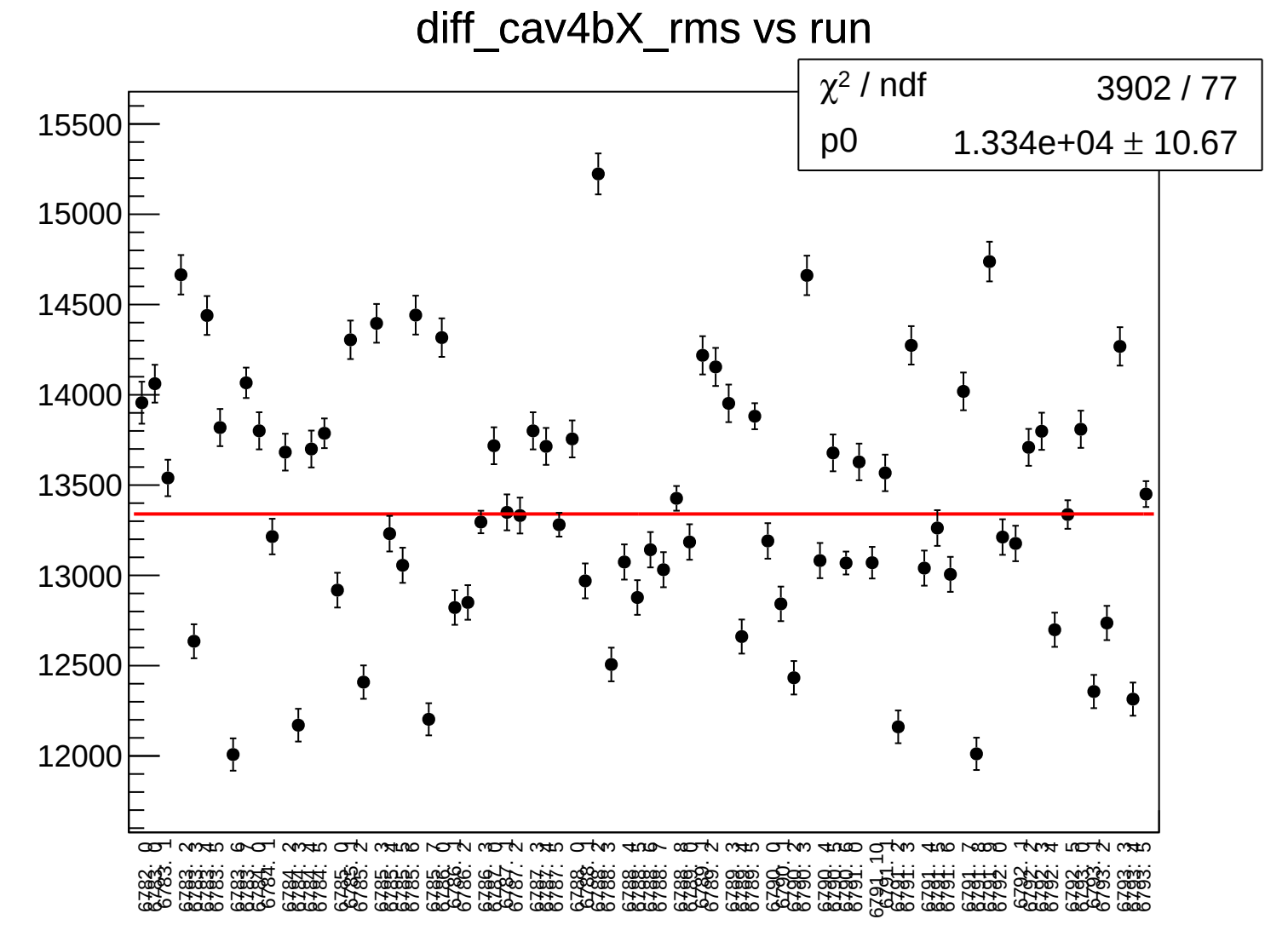

pull1D
Entries 78
Mean −1.49
Std Dev 3.891
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

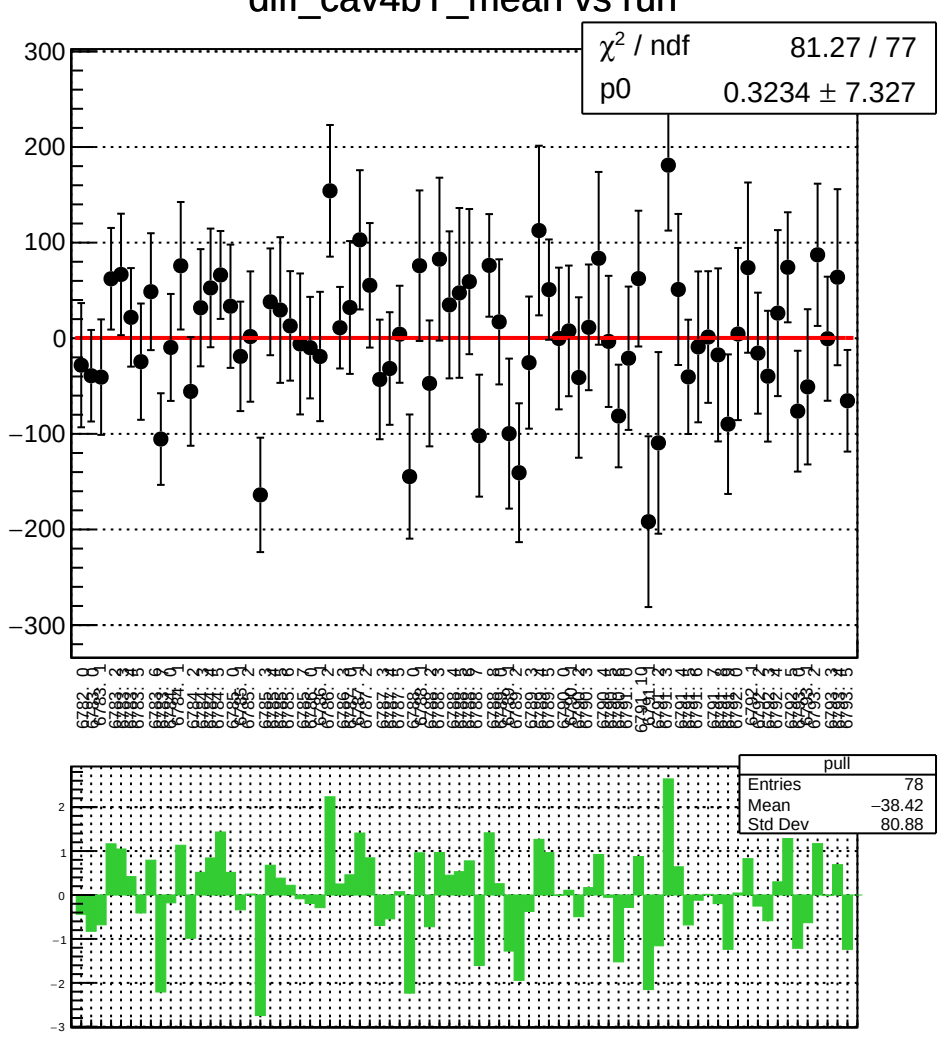
yield_bpm0l01Y_rms vs run

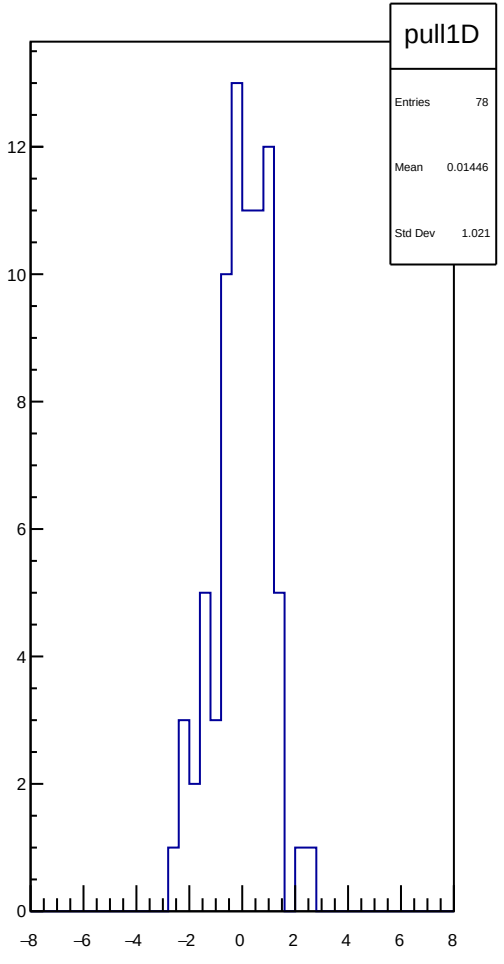


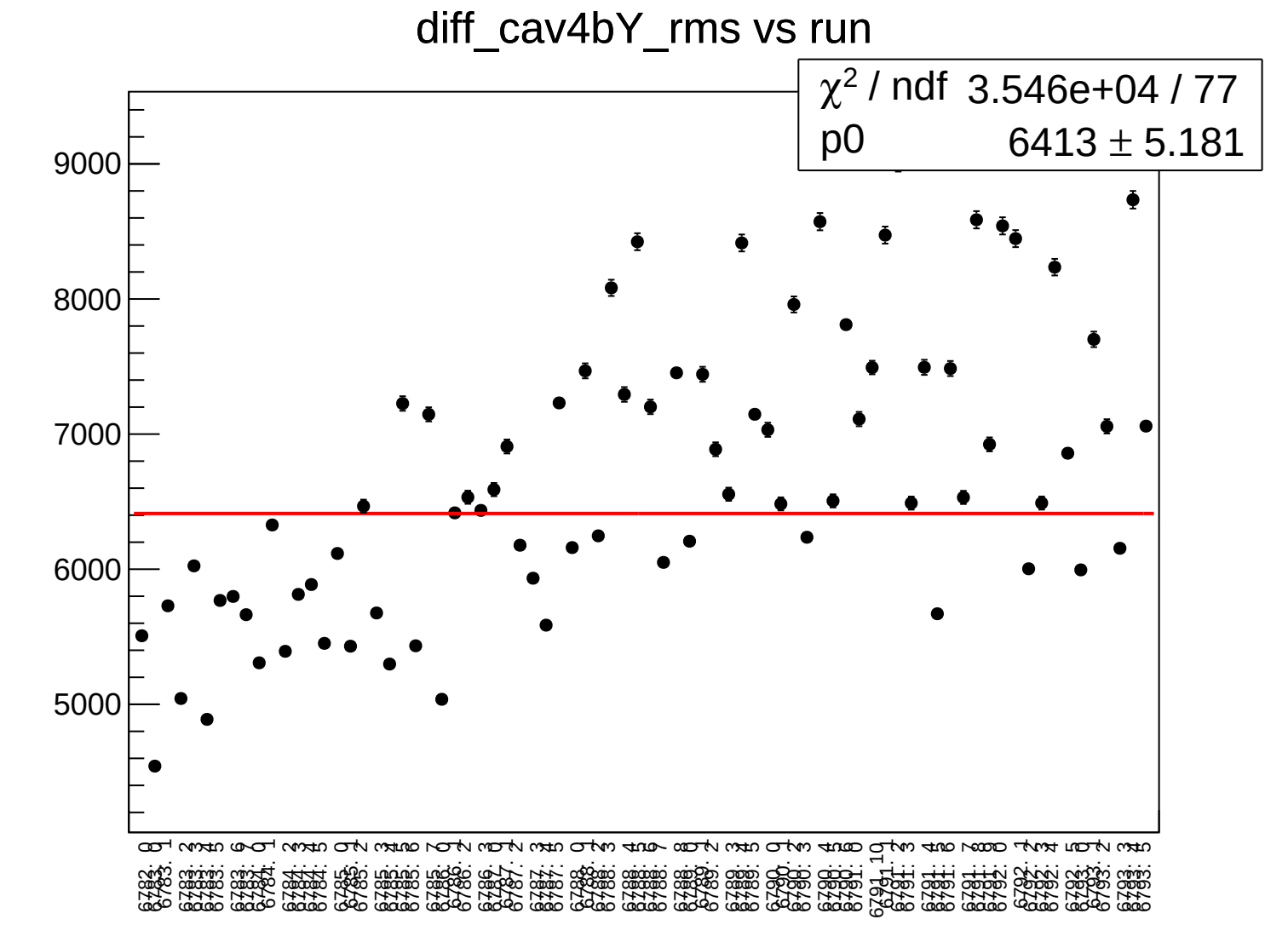

diff_cav4bX_mean vs run
χ² / ndf 67.06 / 77
p0 −49.14 ± 15.09
400
200
0
−200
−400
pull
Entries 78
Mean −234
Std Dev 260.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

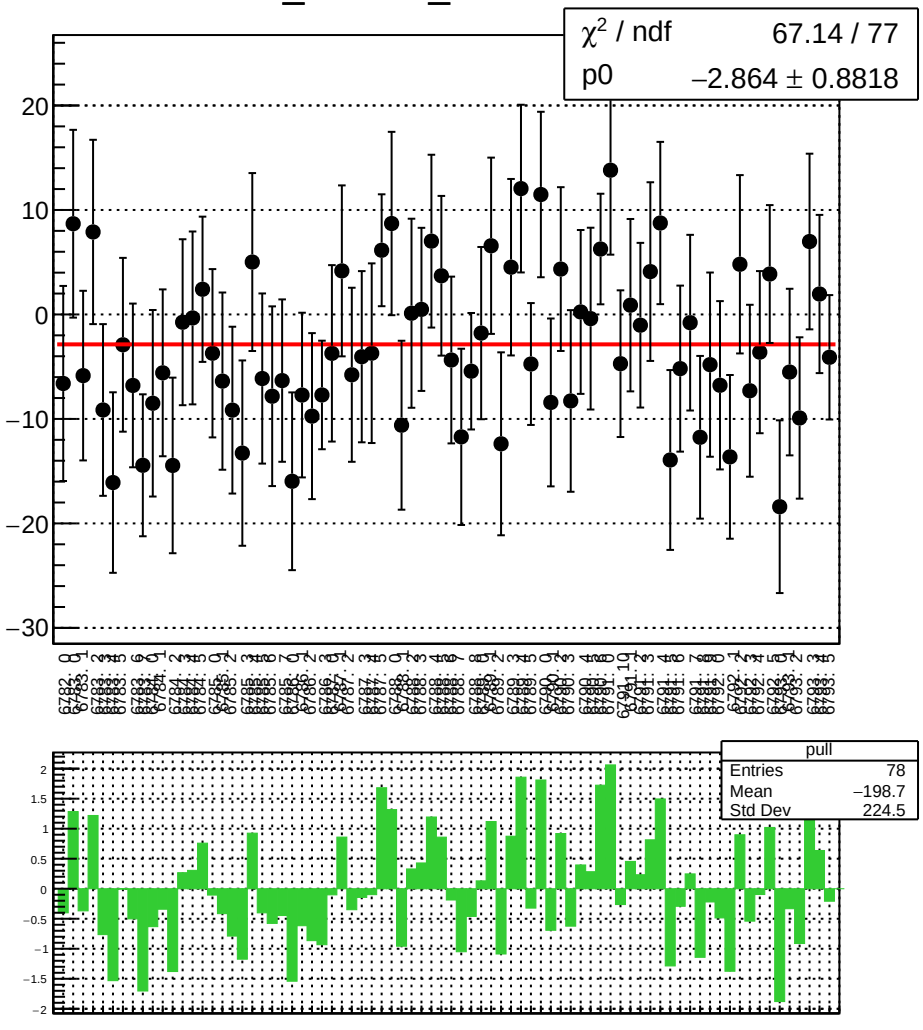

pull1D
Entries 78
Mean −0.0106
Std Dev 0.9272
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

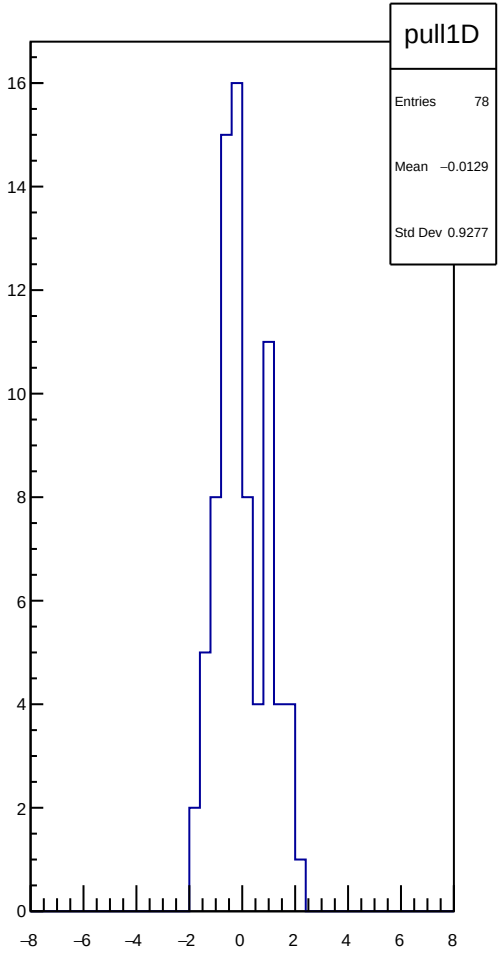

diff_cav4bX_rms vs run
χ² / ndf 3902 / 77
p0 1.334e+04 ± 10.67
15500
15000
14500
14000
13500
13000
12500
12000

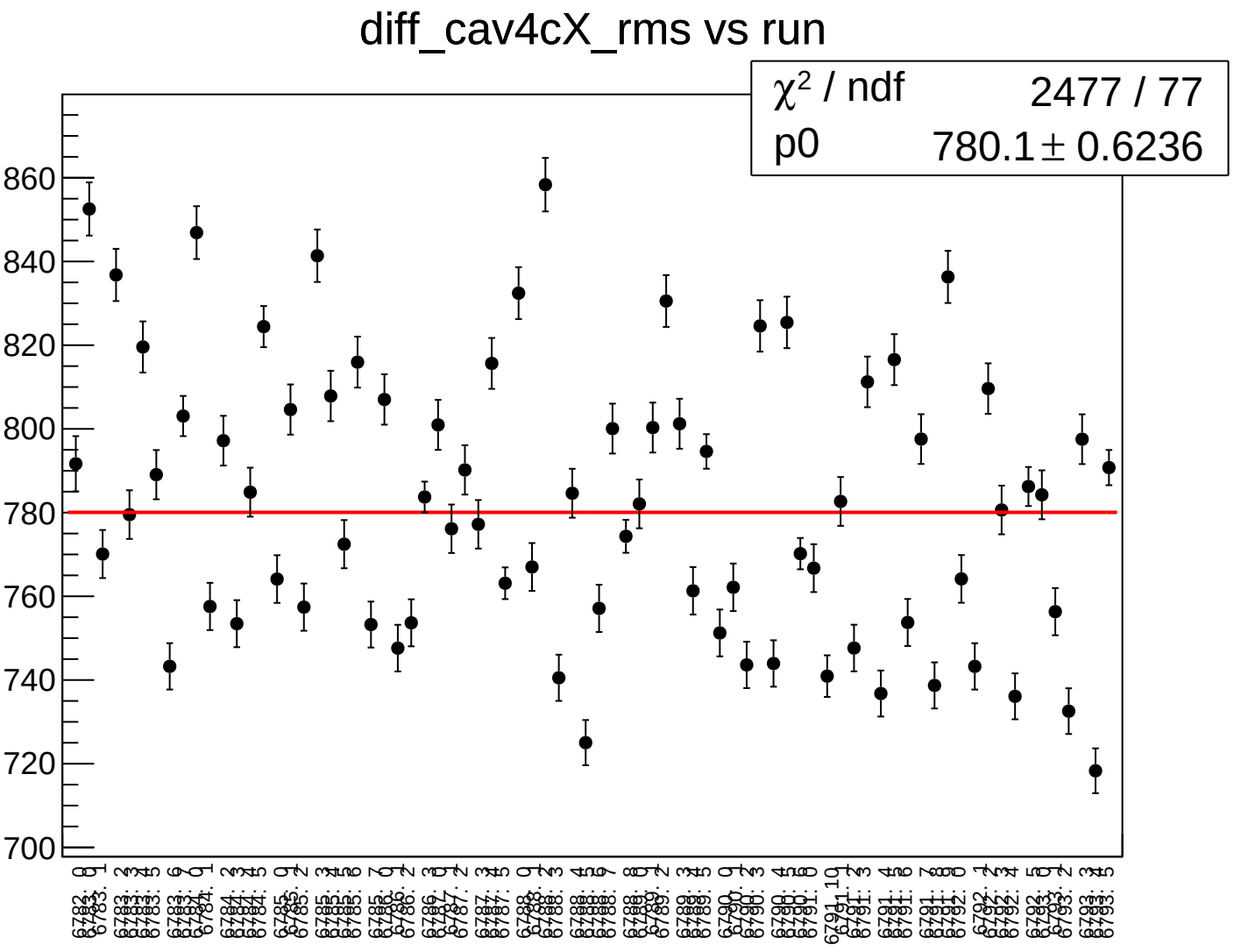

diff_cav4bY_mean vs run
χ^2 / ndf 81.27 / 77
p0 0.3234 ± 7.327
pull
Entries 78
Mean −38.42
Std Dev 80.88

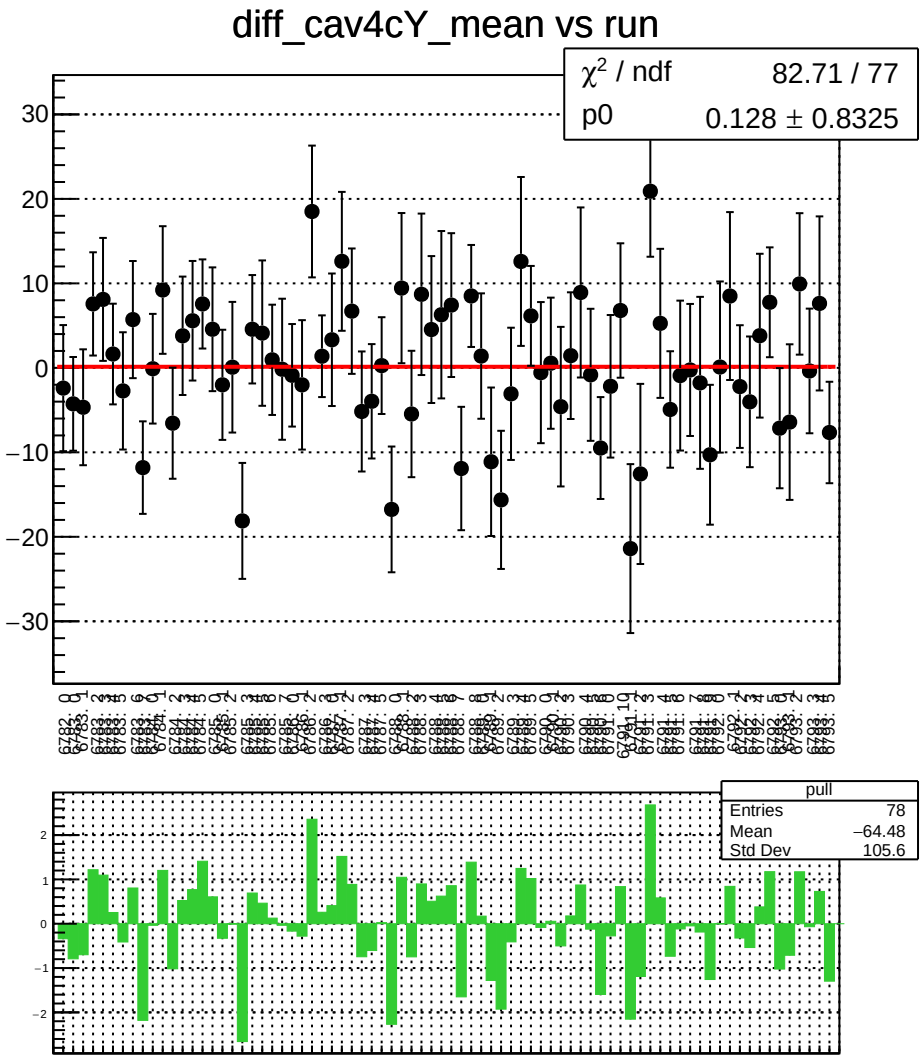

pull1D
Entries 78
Mean 0.01446
Std Dev 1.021

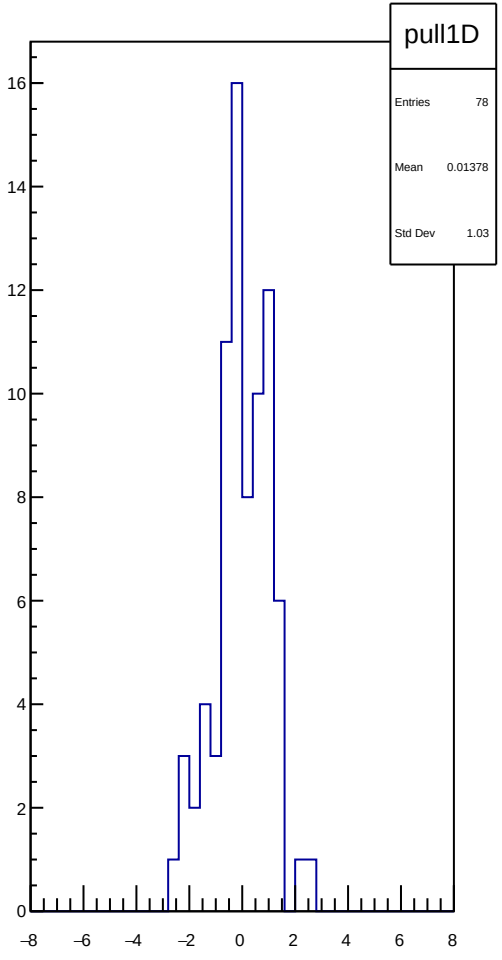

diff_cav4bY_rms vs run
χ^2 / ndf 3.546e+04 / 77
p0 6413 ± 5.181
9000
8000
7000
6000
5000

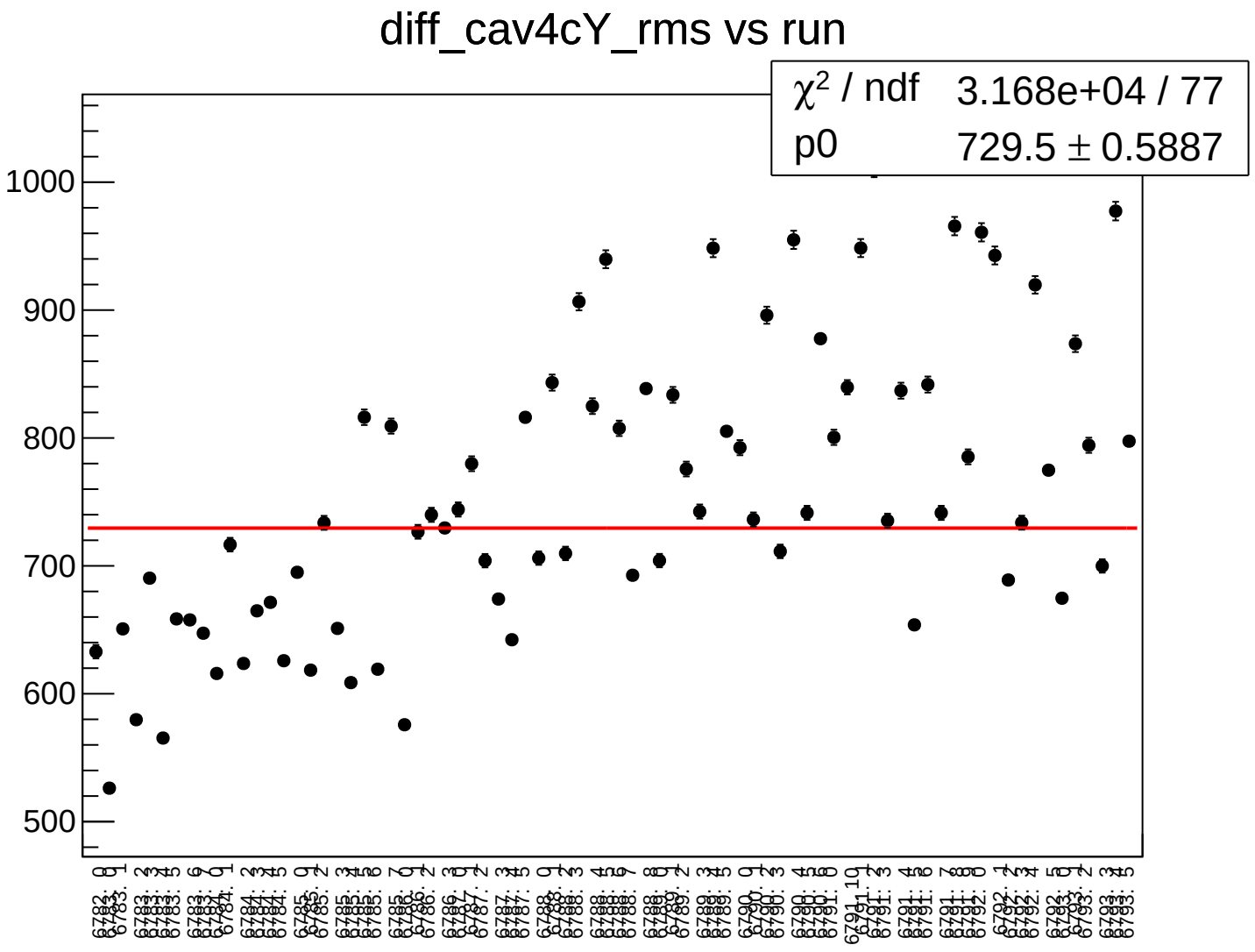

diff_cav4cX_mean vs run
χ² / ndf 67.14 / 77
p0 −2.864 ± 0.8818
pull
Entries 78
Mean −198.7
Std Dev 224.5

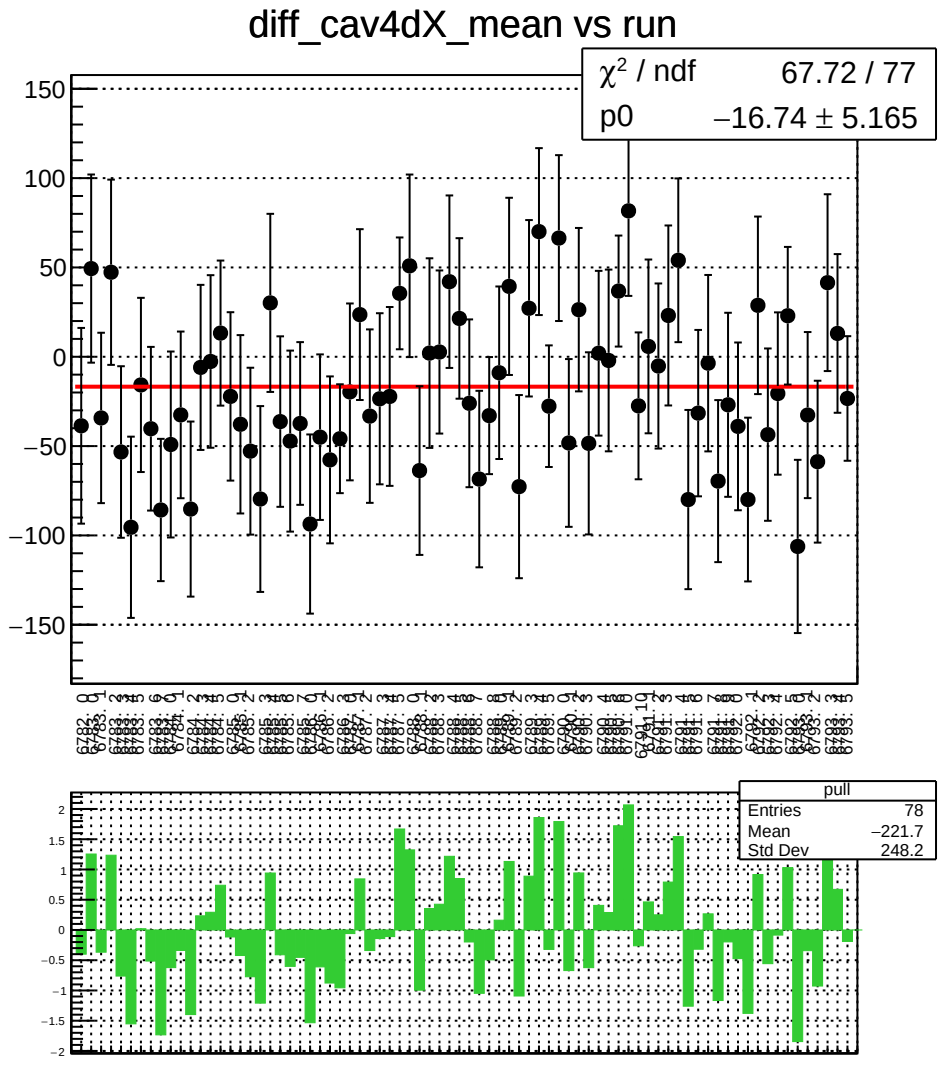

pull1D
Entries 78
Mean −0.0129
Std Dev 0.9277

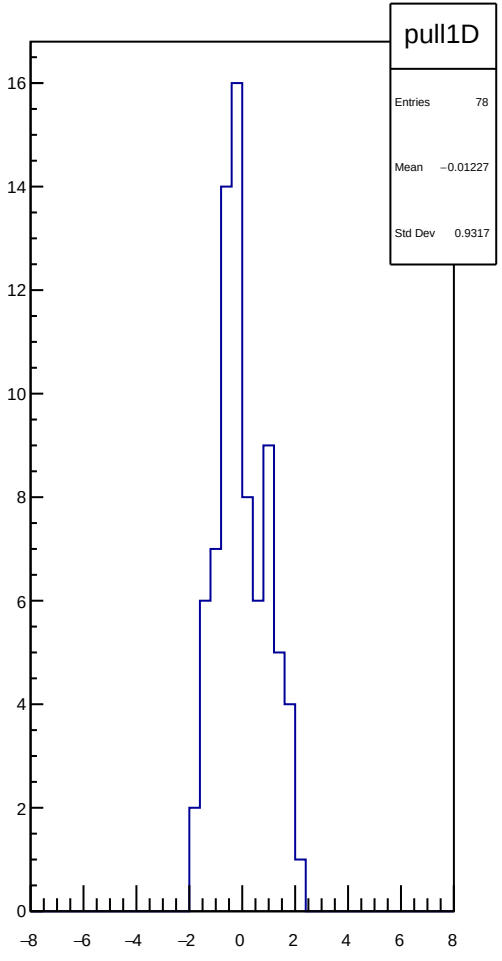

diff_cav4cX_rms vs run
χ² / ndf 2477 / 77
p0 780.1 ± 0.6236
860
840
820
800
780
760
740
720
700

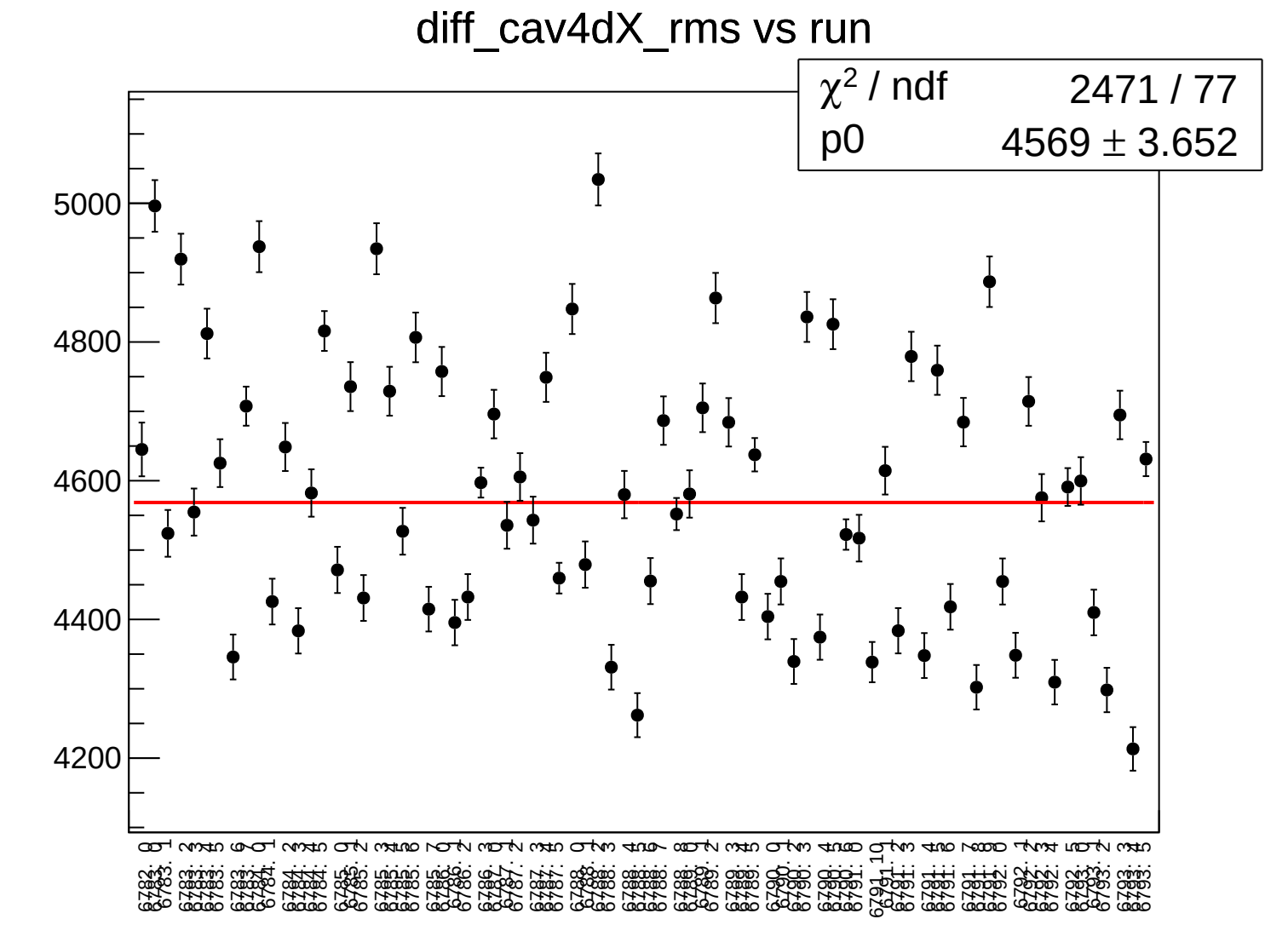

diff_cav4cY_mean vs run
χ² / ndf 82.71 / 77
p0 0.128 ± 0.8325
pull
Entries 78
Mean −64.48
Std Dev 105.6

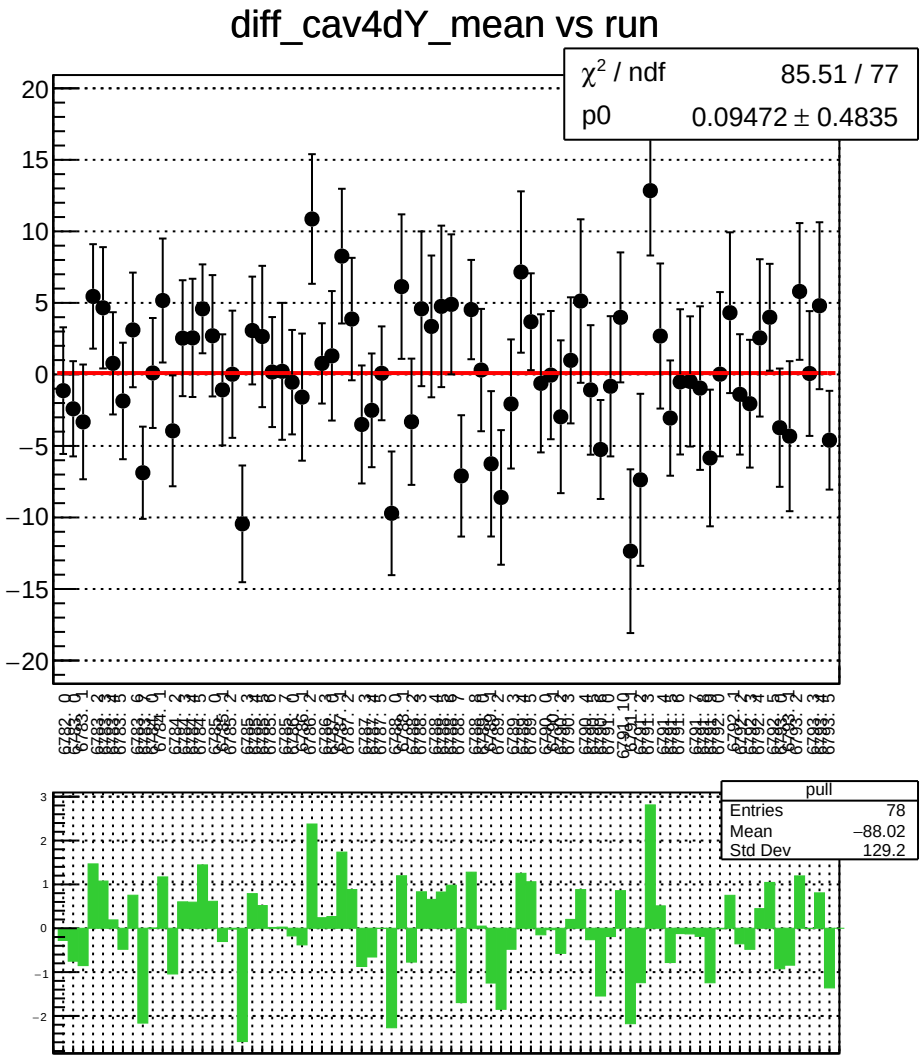

pull1D
Entries 78
Mean 0.01378
Std Dev 1.03

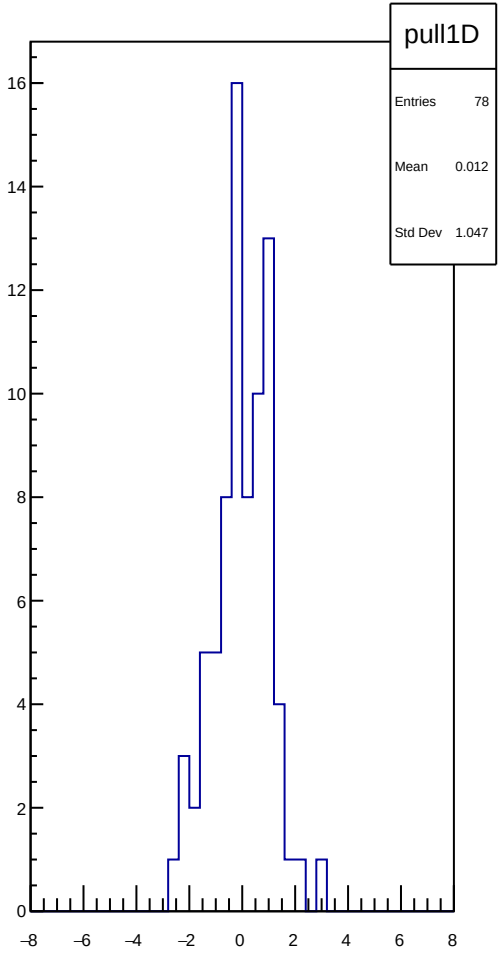

diff_cav4cY_rms vs run
χ² / ndf 3.168e+04 / 77
p0 729.5 ± 0.5887
1000
900
800
700
600
500

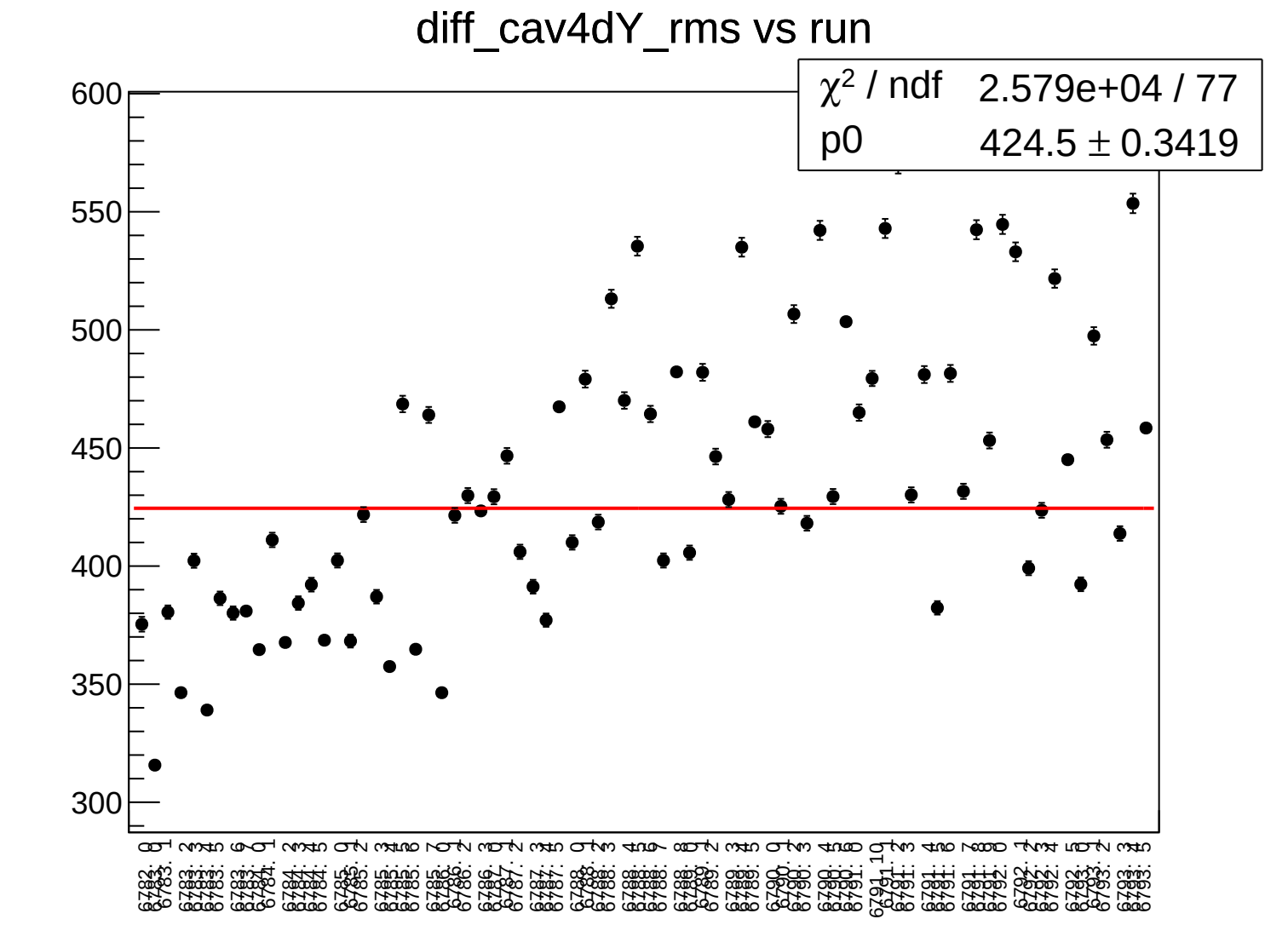

diff_cav4dX_mean vs run
χ² / ndf 67.72 / 77
p0 −16.74 ± 5.165
pull
Entries 78
Mean −221.7
Std Dev 248.2

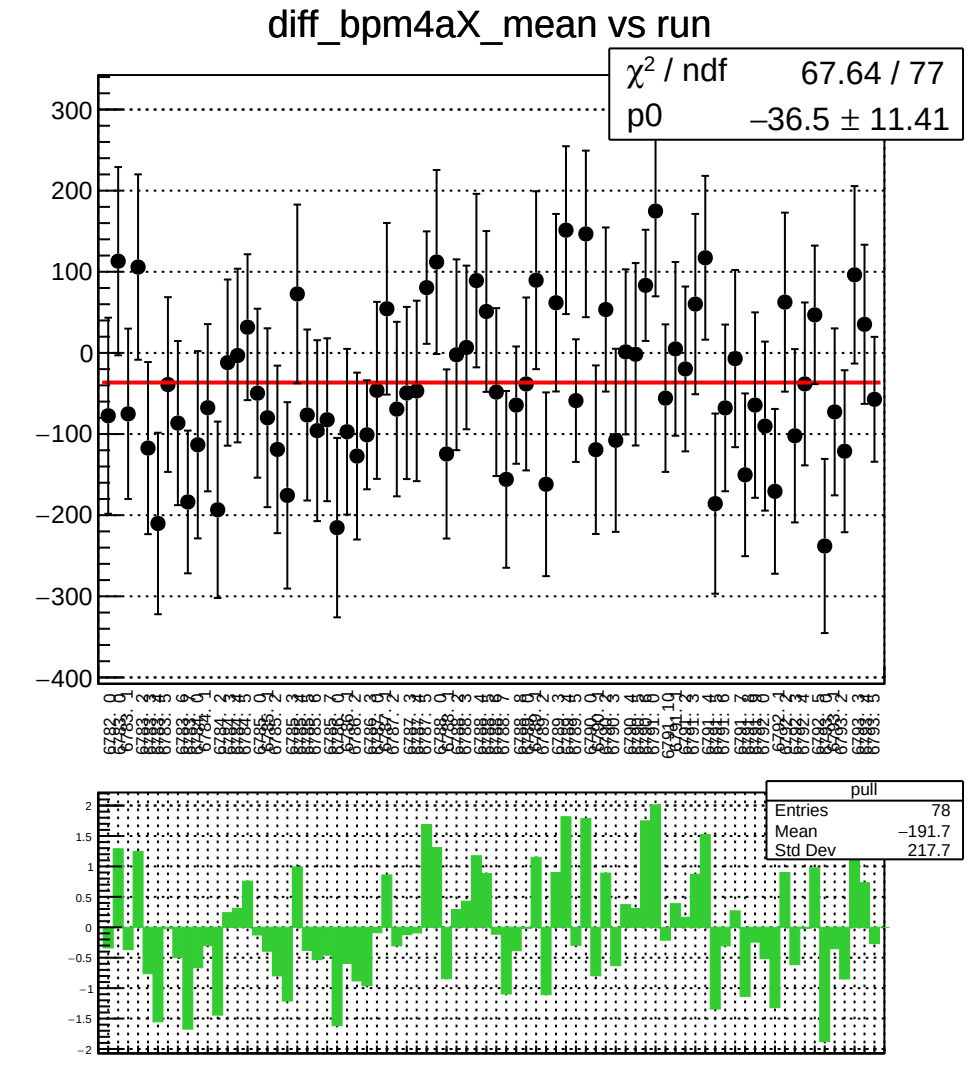

pull1D
Entries 78
Mean −0.01227
Std Dev 0.9317

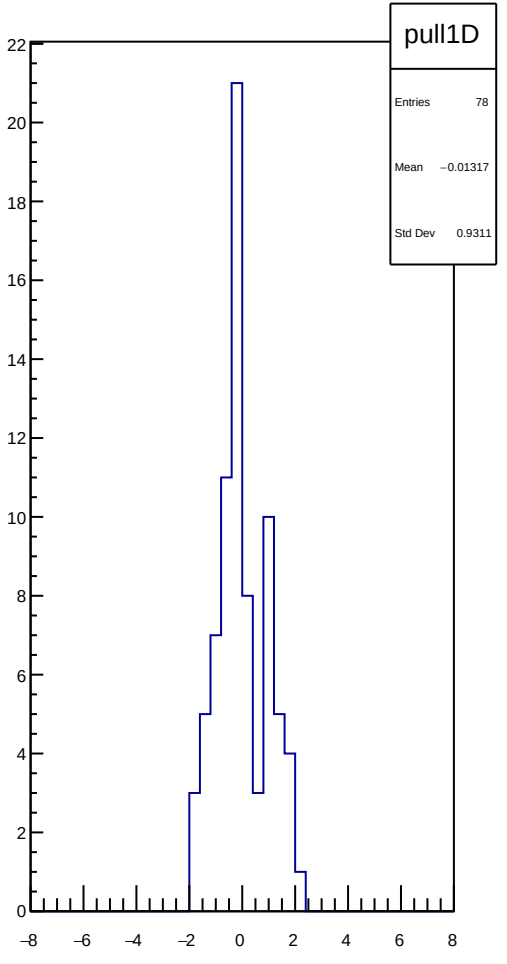

diff_cav4dX_rms vs run
χ^2 / ndf 2471 / 77
p0 4569 ± 3.652
5000
4800
4600
4400
4200

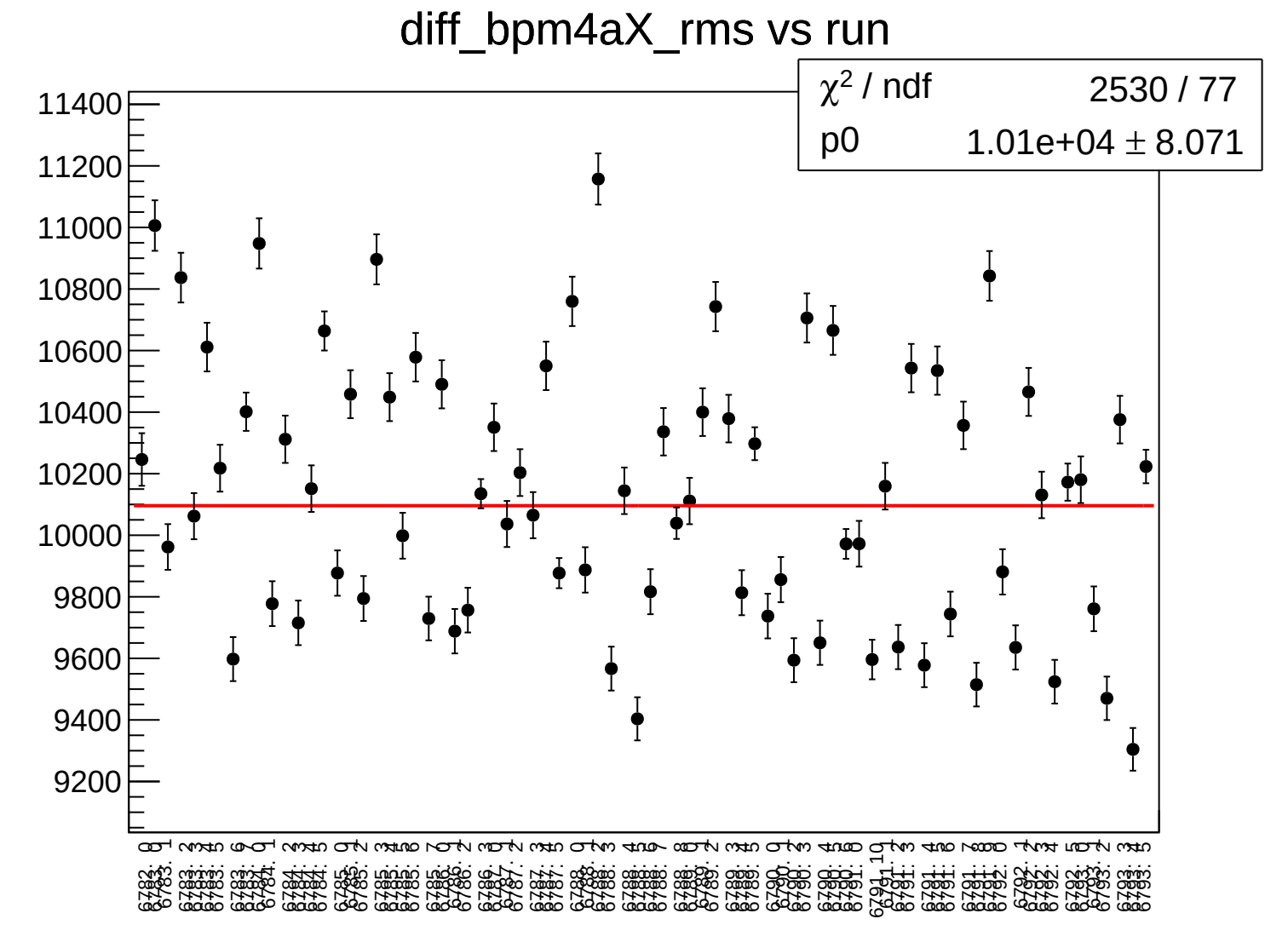

diff_cav4dY_mean vs run
χ² / ndf 85.51 / 77
p0 0.09472 ± 0.4835
pull
Entries 78
Mean −88.02
Std Dev 129.2

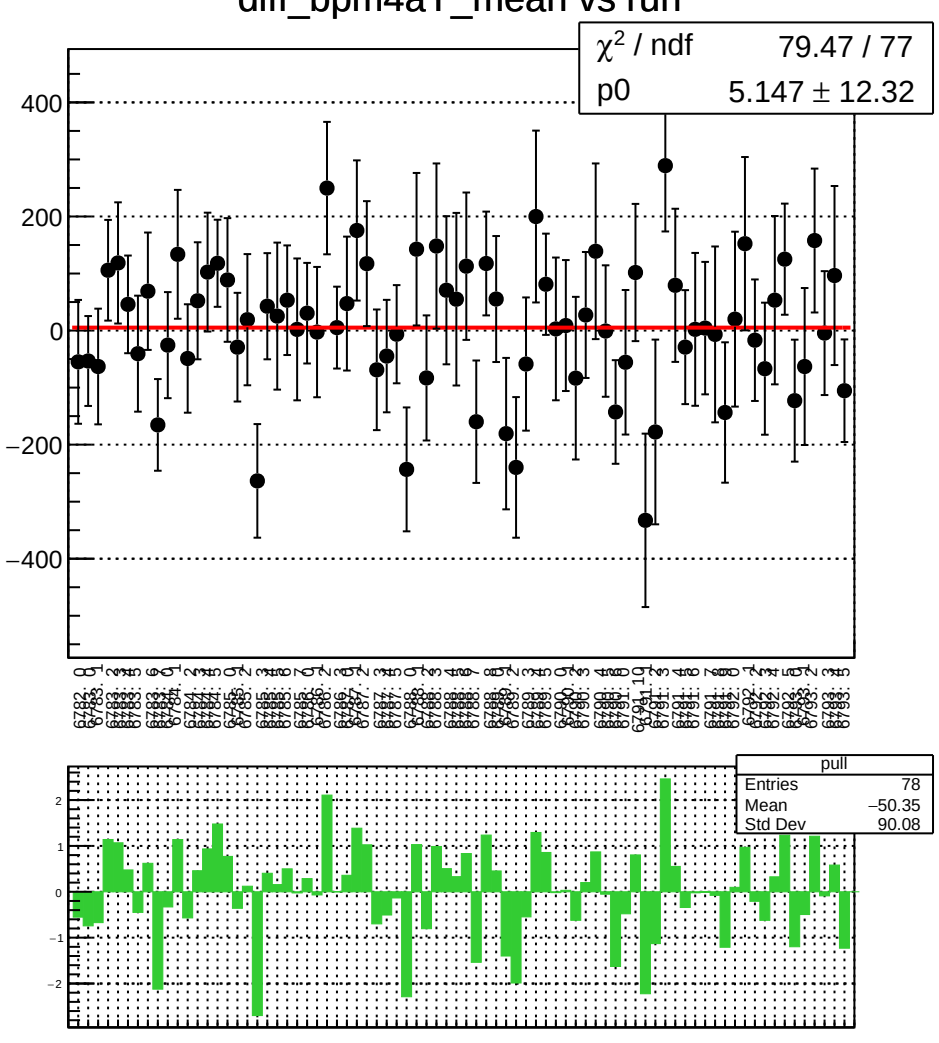

pull1D
Entries 78
Mean 0.012
Std Dev 1.047

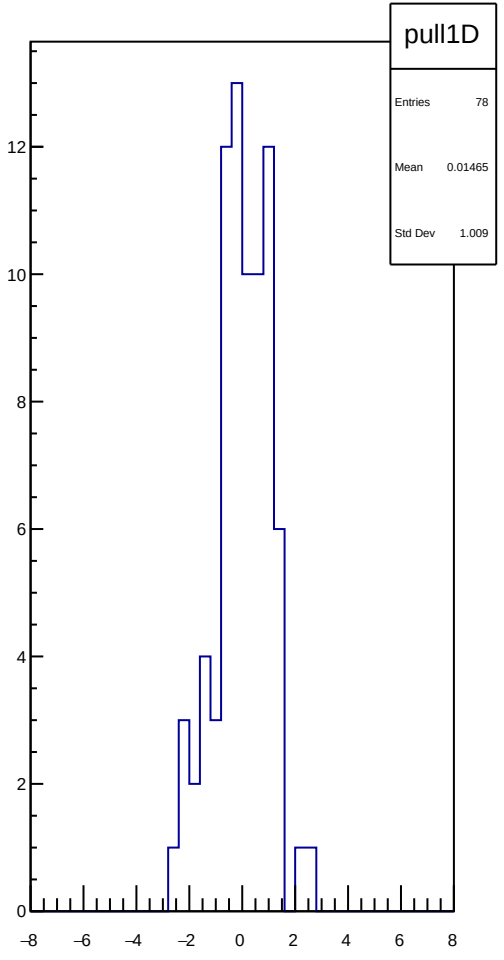

diff_cav4dY_rms vs run
χ² / ndf 2.579e+04 / 77
p0 424.5 ± 0.3419
600
550
500
450
400
350
300

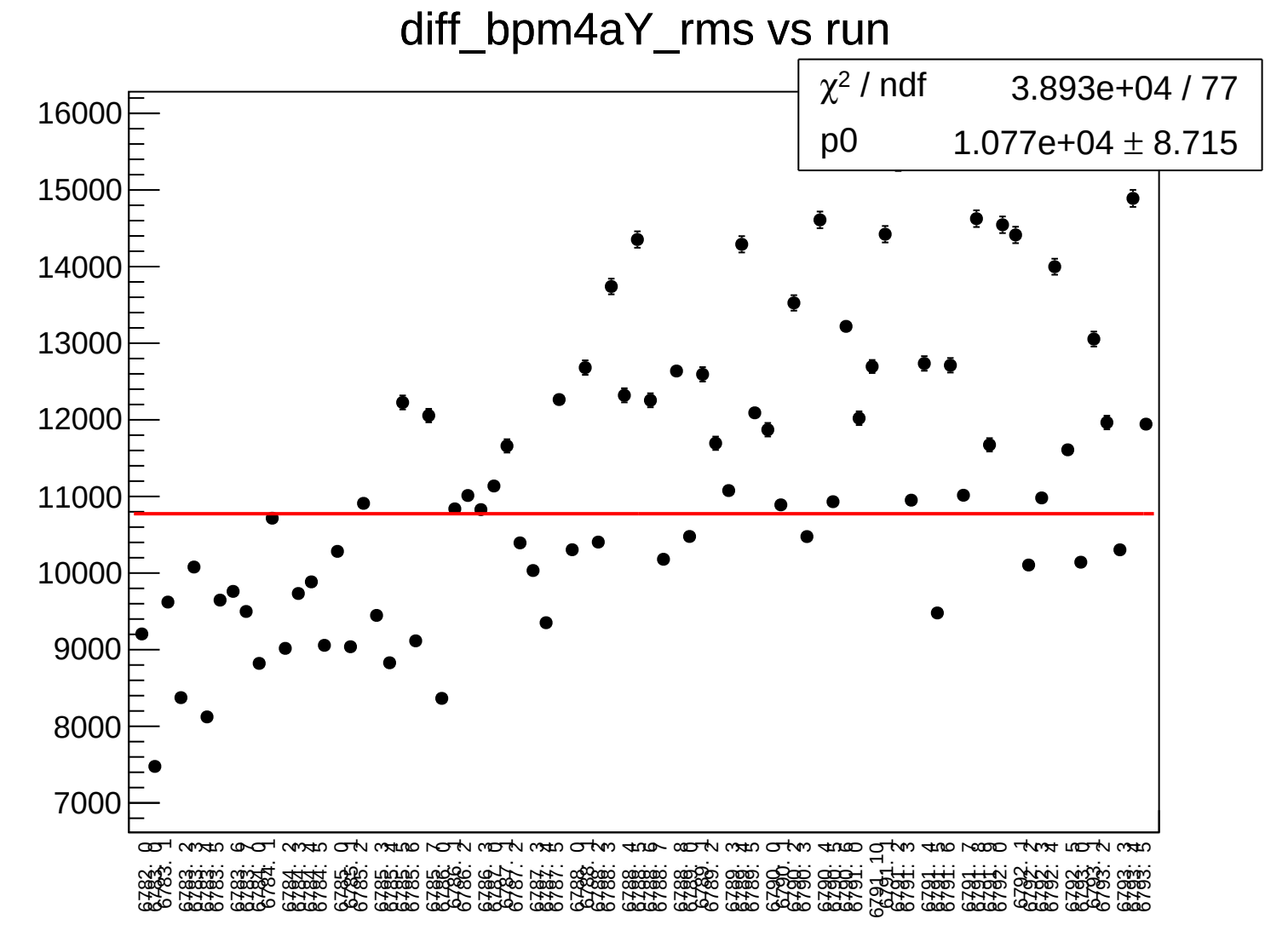

diff_bpm4aX_mean vs run
χ² / ndf 67.64 / 77
p0 −36.5 ± 11.41
pull
Entries 78
Mean −191.7
Std Dev 217.7

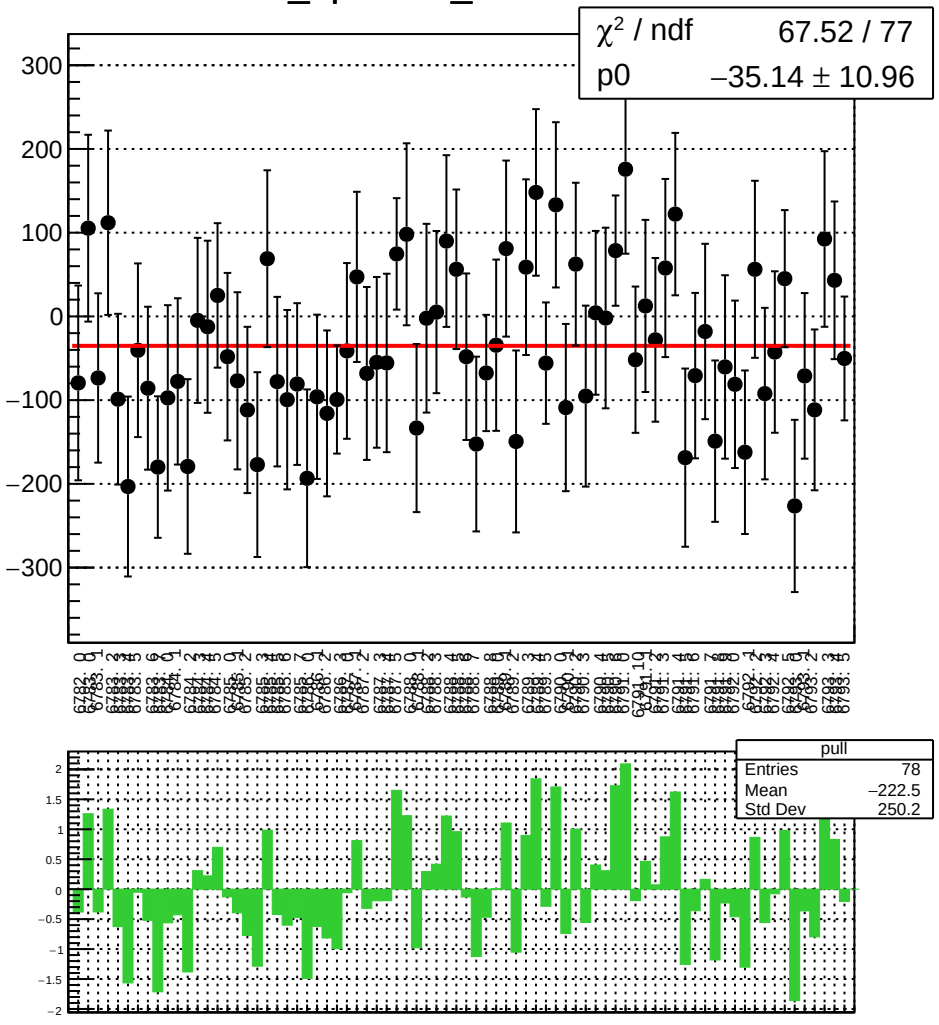

pull1D
Entries 78
Mean −0.01317
Std Dev 0.9311

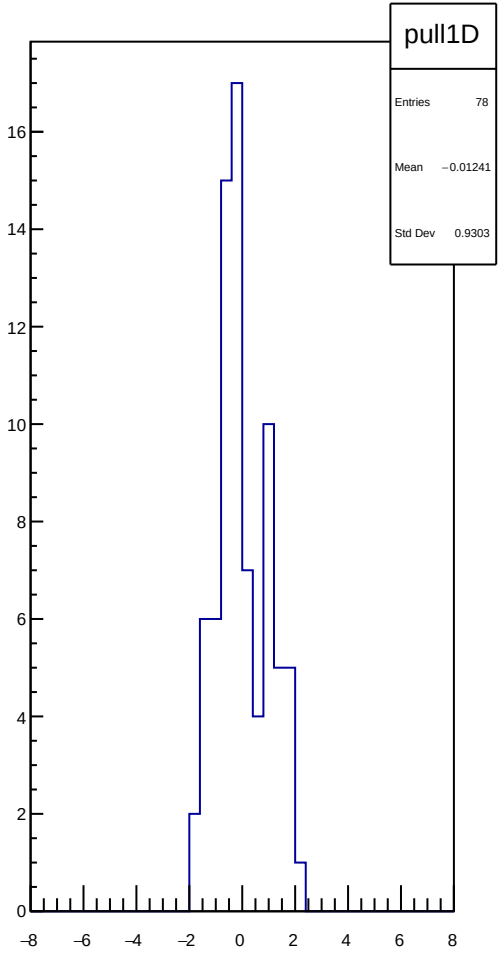

diff_bpm4aX_rms vs run
χ² / ndf 2530 / 77
p0 1.01e+04 ± 8.071
11400
11200
11000
10800
10600
10400
10200
10000
9800
9600
9400
9200

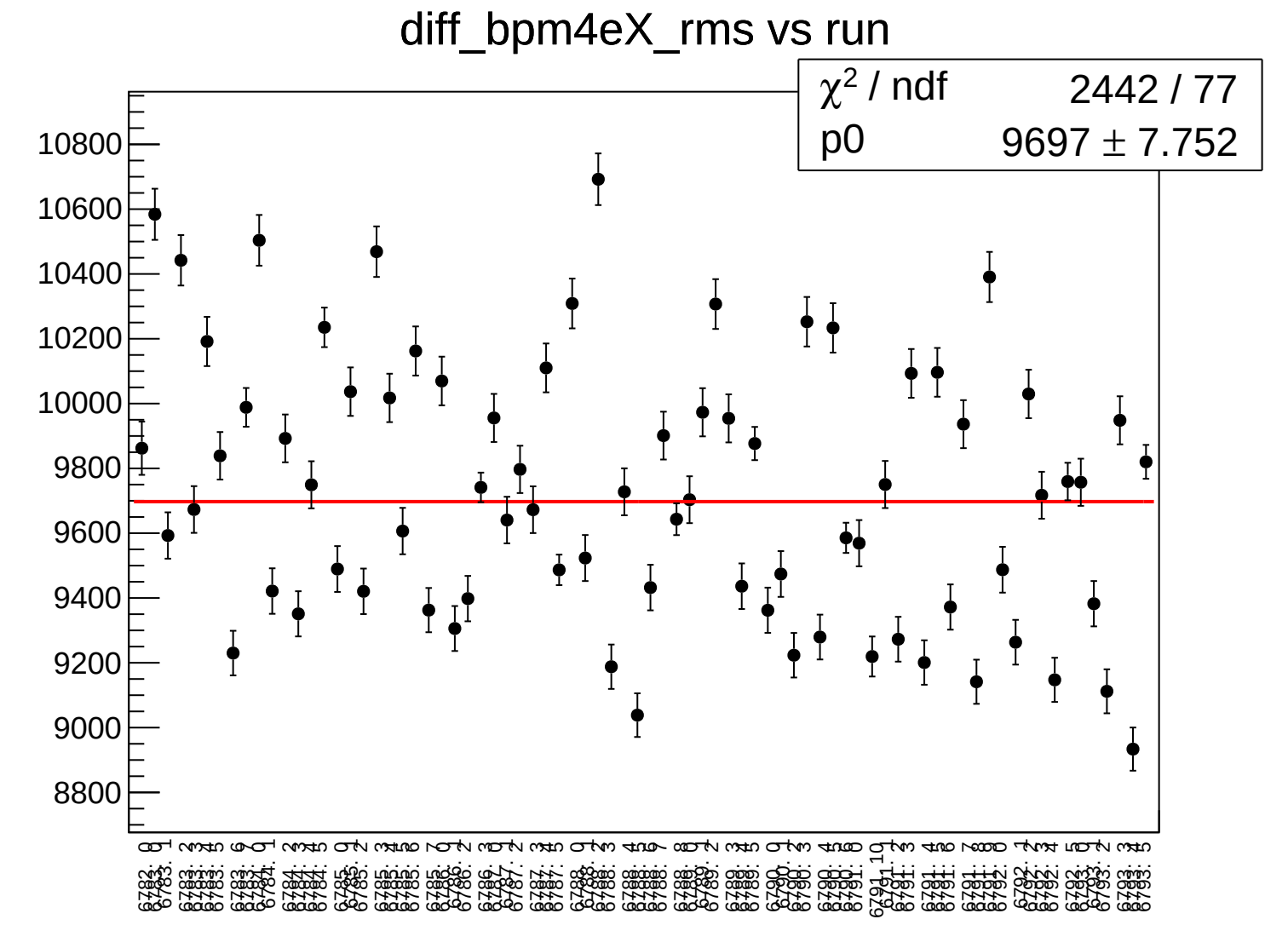

diff_bpm4aY_mean vs run
χ^2 / ndf 79.47 / 77
p0 5.147 ± 12.32
400
200
0
−200
−400
pull
Entries 78
Mean −50.35
Std Dev 90.08
2
1
0
−1
−2

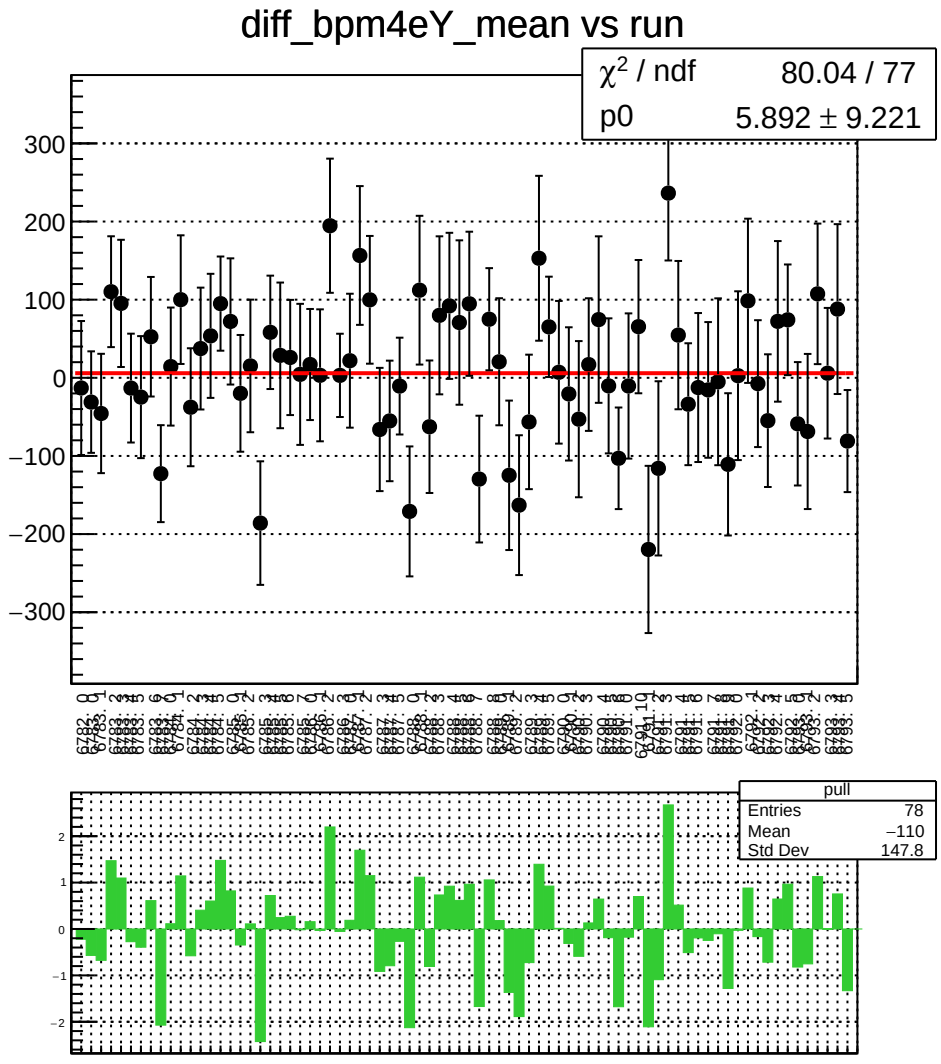

pull1D
Entries 78
Mean 0.01465
Std Dev 1.009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

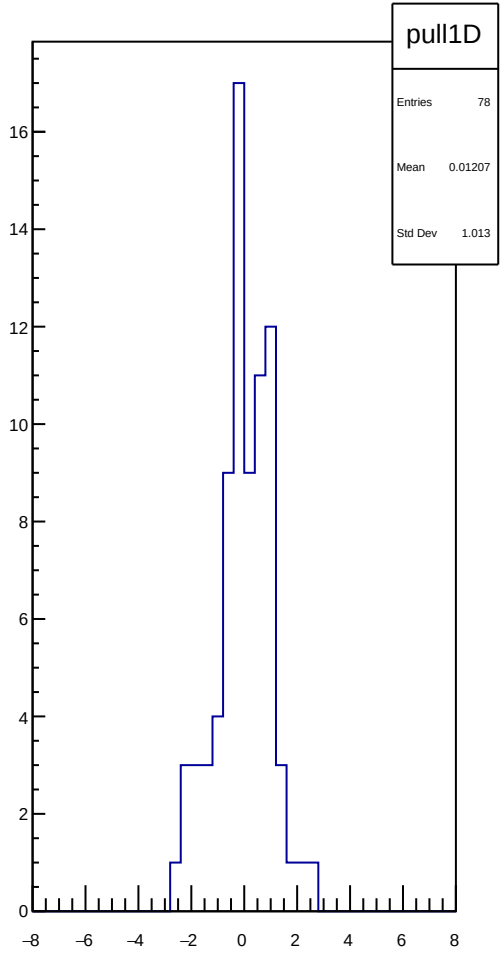

diff_bpm4aY_rms vs run
χ² / ndf 3.893e+04 / 77
p0 1.077e+04 ± 8.715
16000
15000
14000
13000
12000
11000
10000
9000
8000
7000

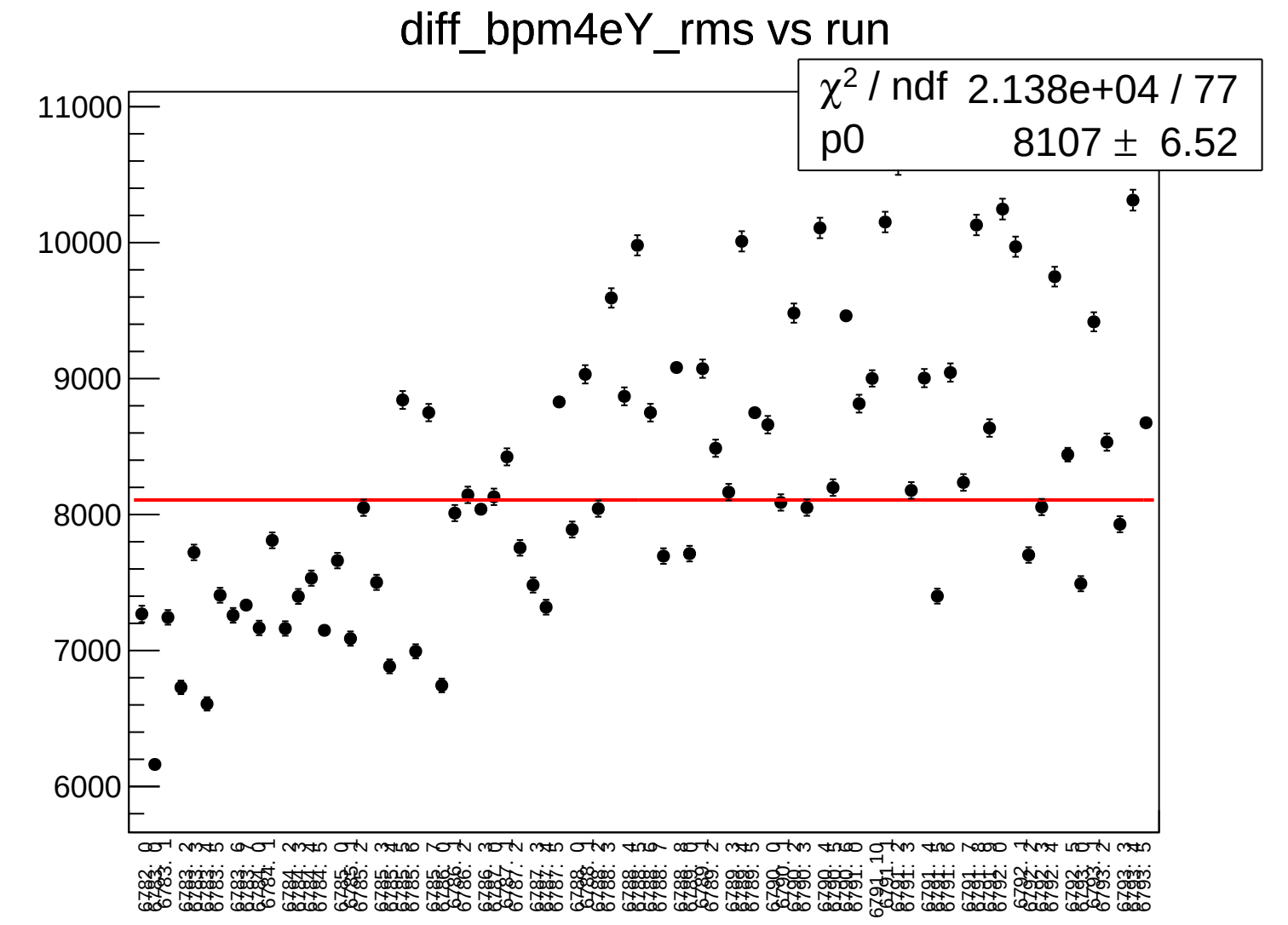

diff_bpm4eX_mean vs run
χ² / ndf 67.52 / 77
p0 −35.14 ± 10.96
pull
Entries 78
Mean −222.5
Std Dev 250.2

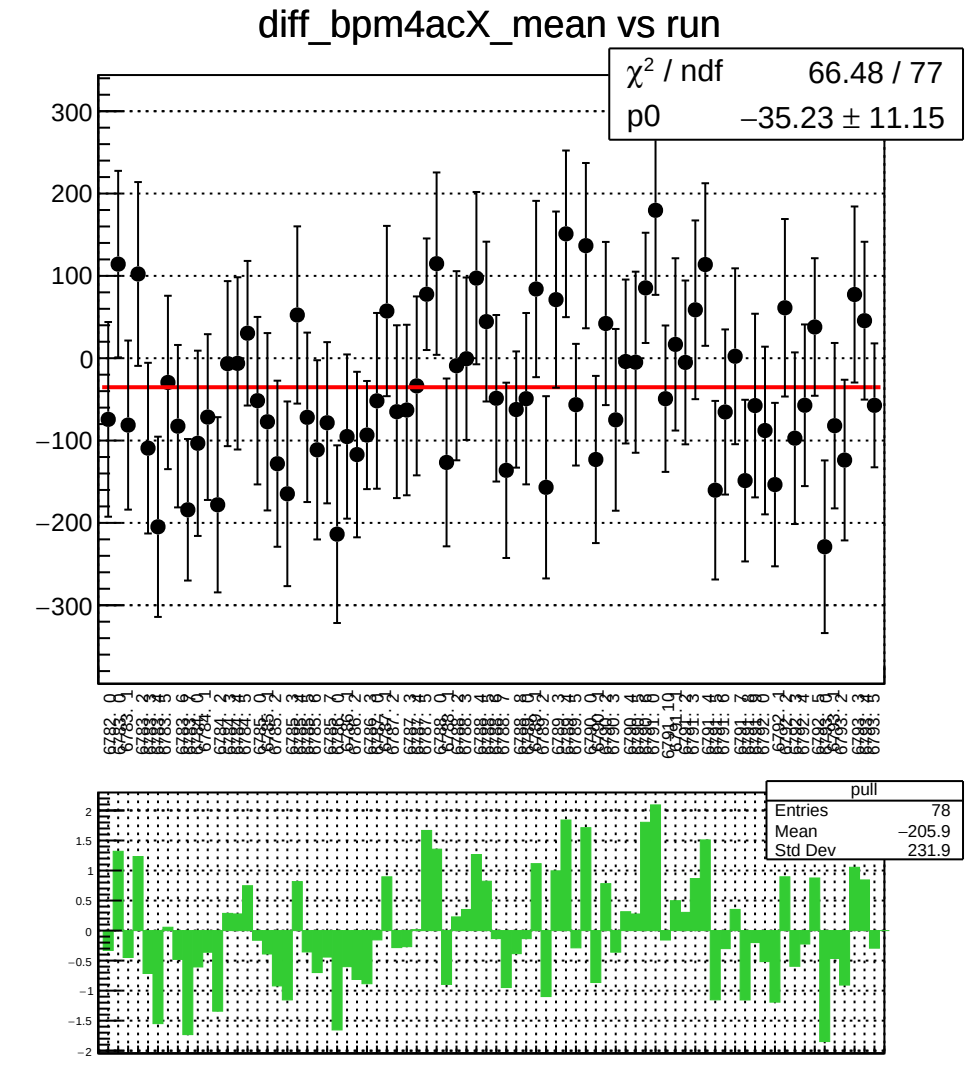

pull1D
Entries 78
Mean −0.01241
Std Dev 0.9303

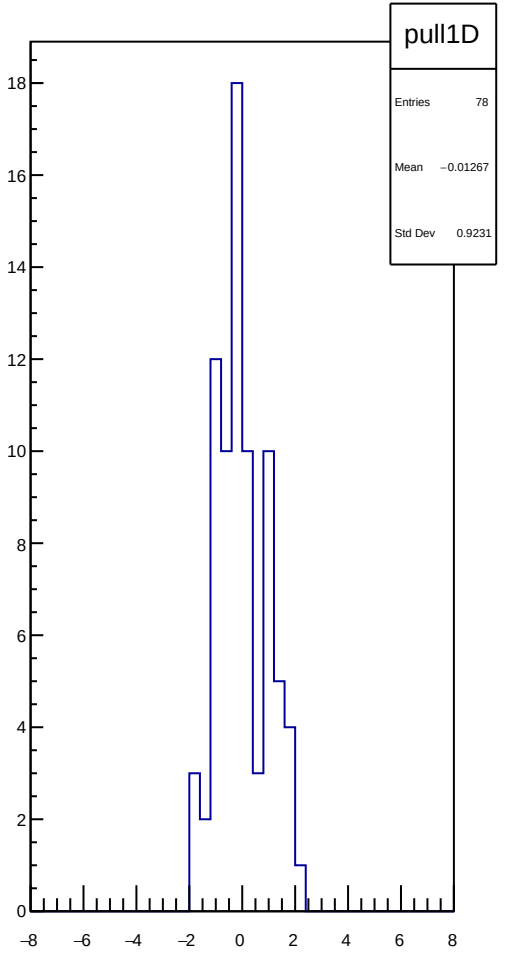

diff_bpm4eX_rms vs run
χ² / ndf 2442 / 77
p0 9697 ± 7.752
10800
10600
10400
10200
10000
9800
9600
9400
9200
9000
8800

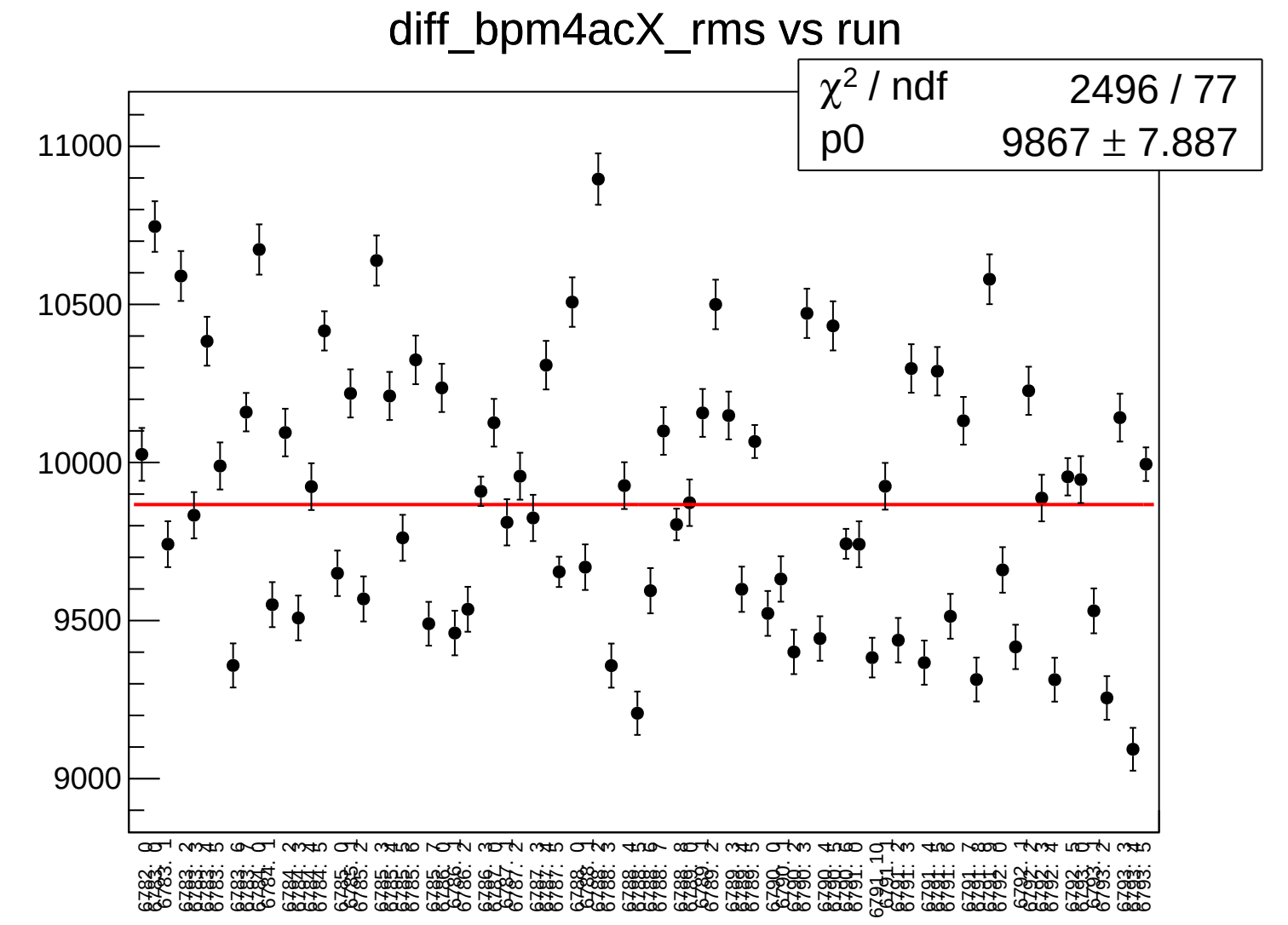

diff_bpm4eY_mean vs run
χ² / ndf 80.04 / 77
p0 5.892 ± 9.221
pull
Entries 78
Mean −110
Std Dev 147.8

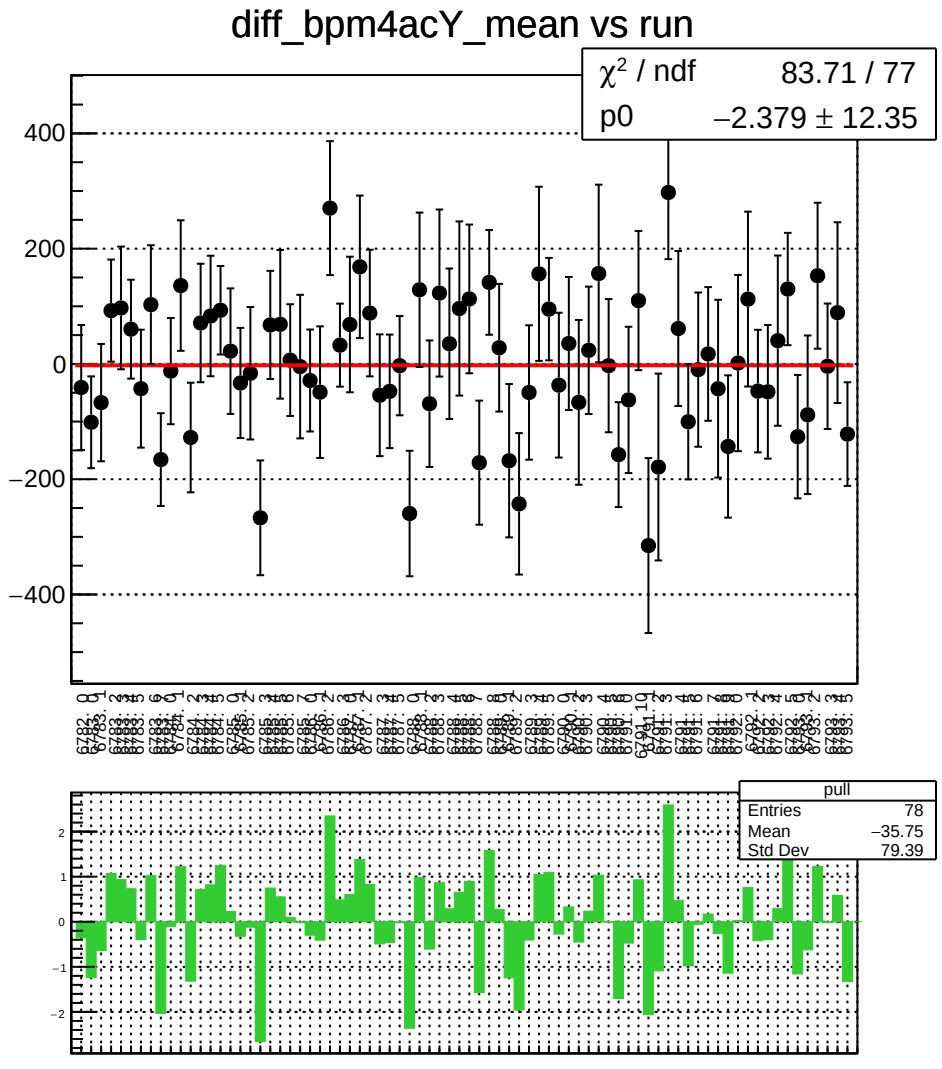

pull1D
Entries 78
Mean 0.01207
Std Dev 1.013

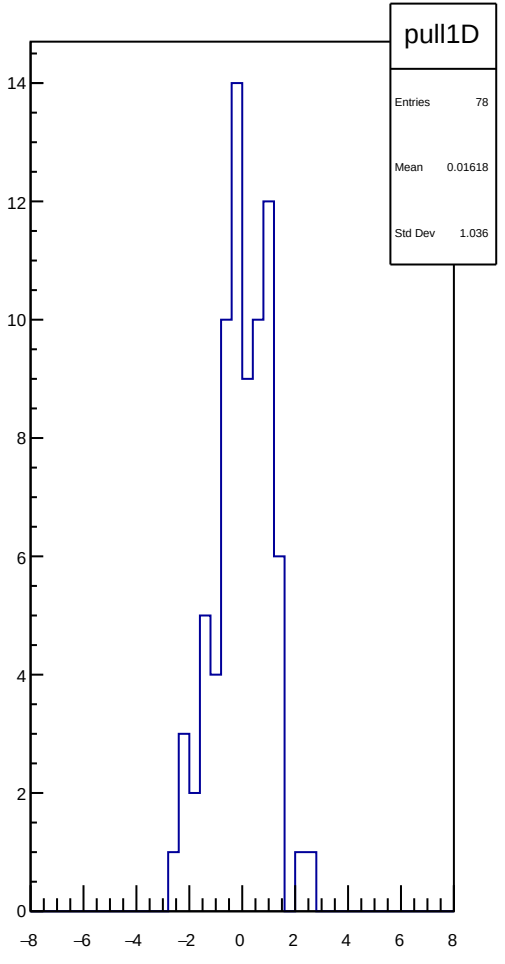

diff_bpm4eY_rms vs run
χ² / ndf 2.138e+04 / 77
p0 8107 ± 6.52
11000
10000
9000
8000
7000
6000

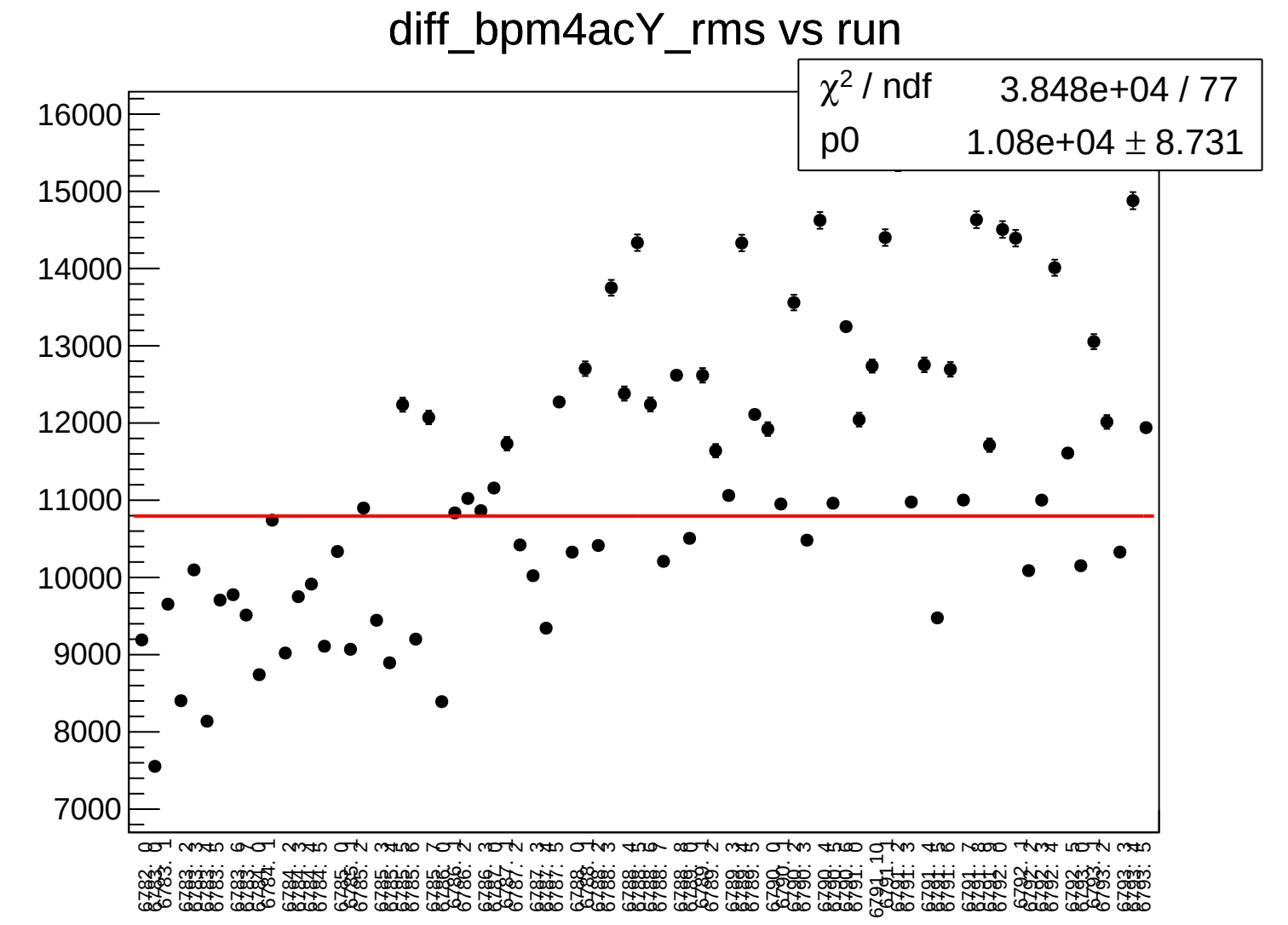

diff_bpm4acX_mean vs run
χ² / ndf 66.48 / 77
p0 −35.23 ± 11.15
pull
Entries 78
Mean −205.9
Std Dev 231.9

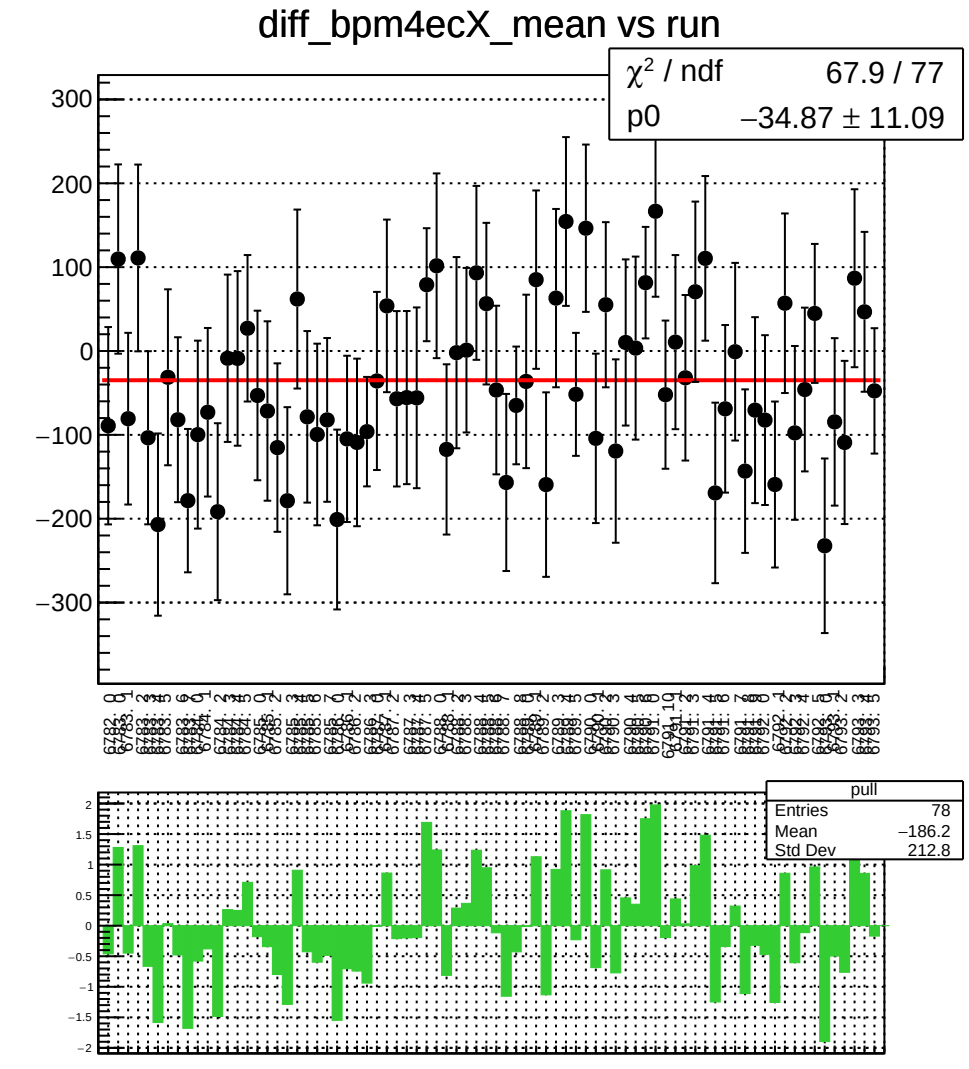

pull1D
Entries 78
Mean −0.01267
Std Dev 0.9231

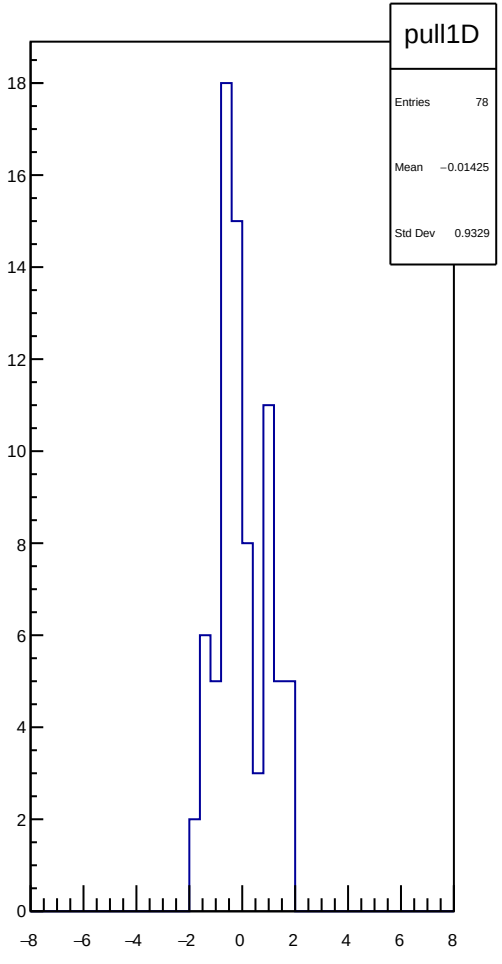

diff_bpm4acX_rms vs run
χ² / ndf 2496 / 77
p0 9867 ± 7.887
11000
10500
10000
9500
9000

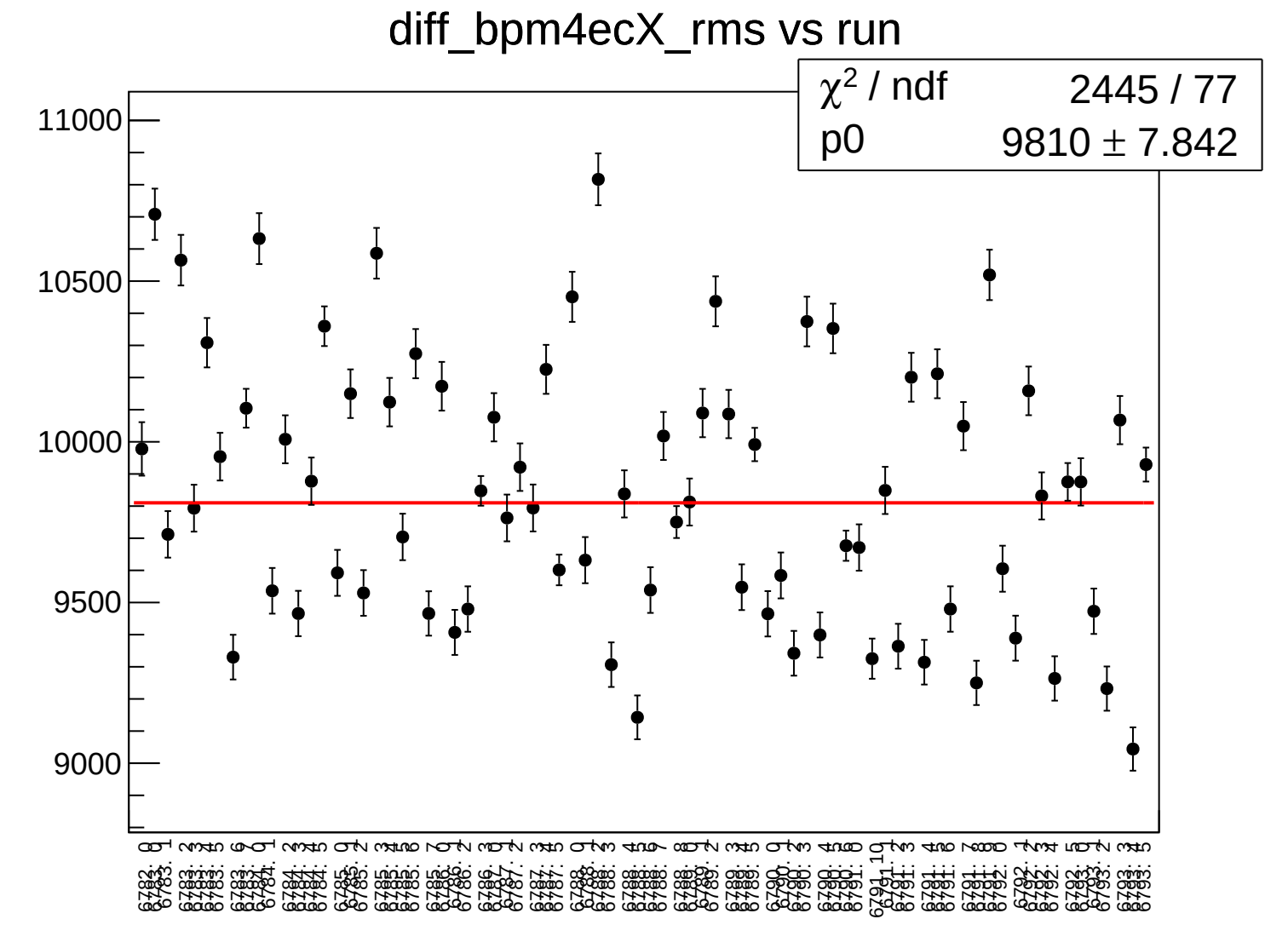

diff_bpm4acY_mean vs run
χ² / ndf 83.71 / 77
p0 −2.379 ± 12.35
400
200
0
−200
−400
pull
Entries 78
Mean −35.75
Std Dev 79.39
2
1
0
−1
−2

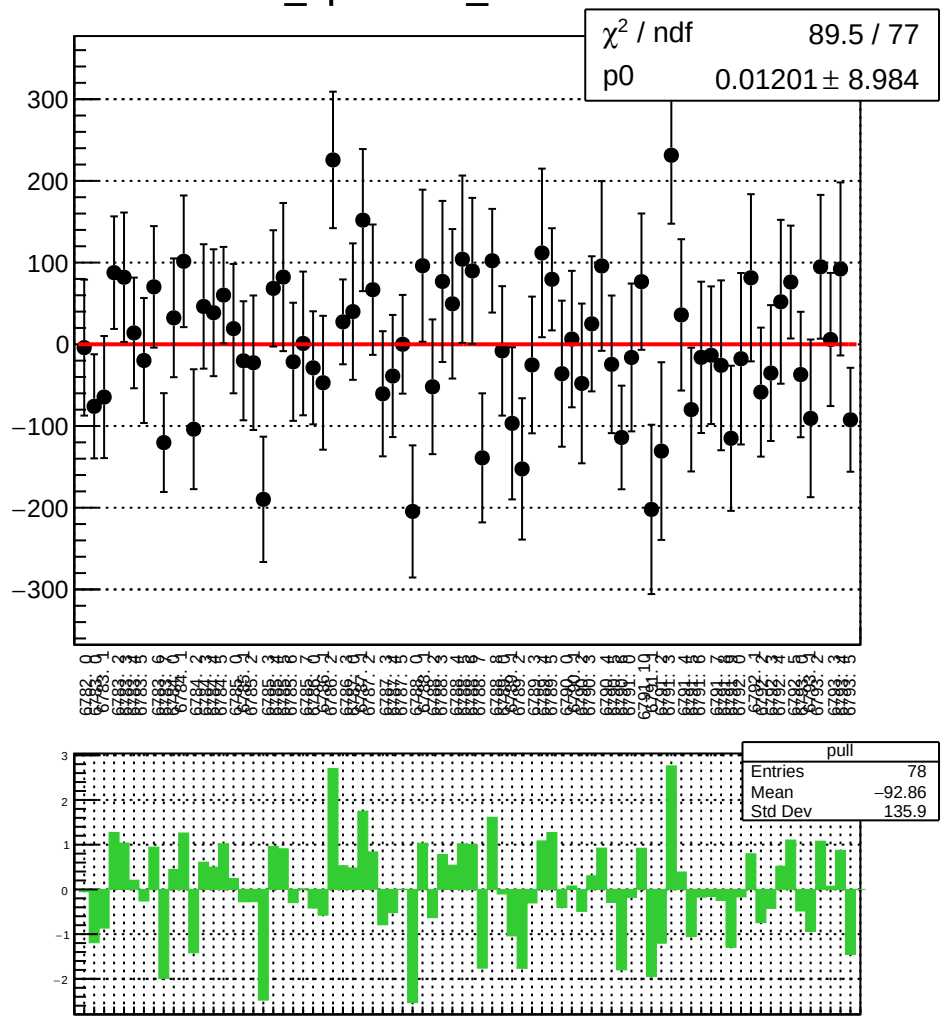

pull1D
Entries 78
Mean 0.01618
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

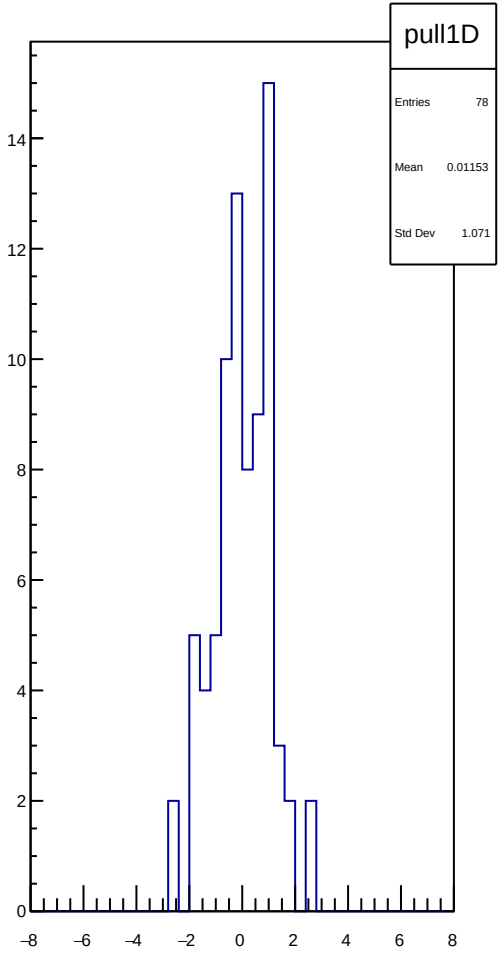

diff_bpm4acY_rms vs run
χ^2 / ndf 3.848e+04 / 77
p0 1.08e+04 ± 8.731
16000
15000
14000
13000
12000
11000
10000
9000
8000
7000

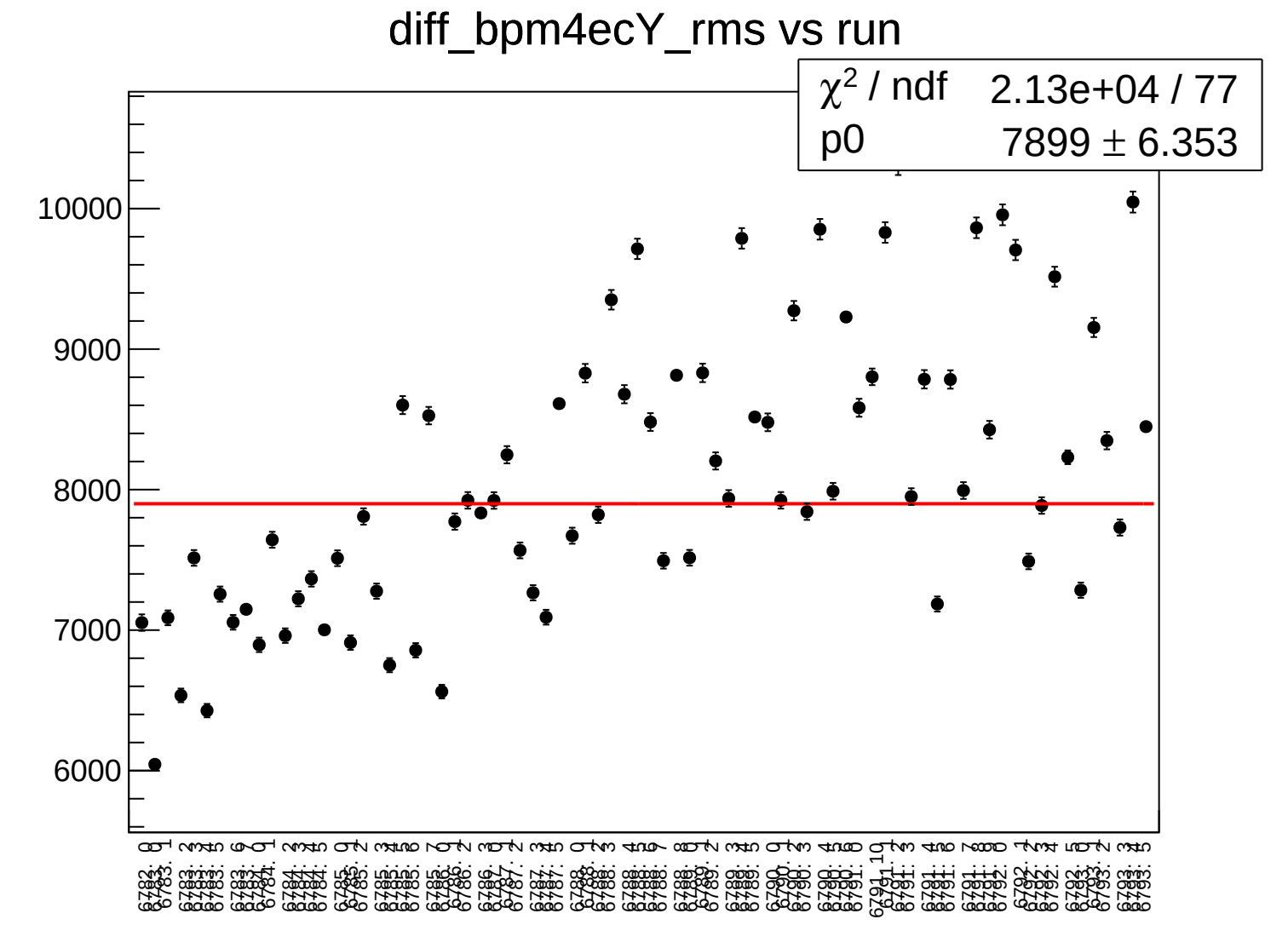

diff_bpm4ecX_mean vs run
χ² / ndf 67.9 / 77
p0 −34.87 ± 11.09
pull
Entries 78
Mean −186.2
Std Dev 212.8

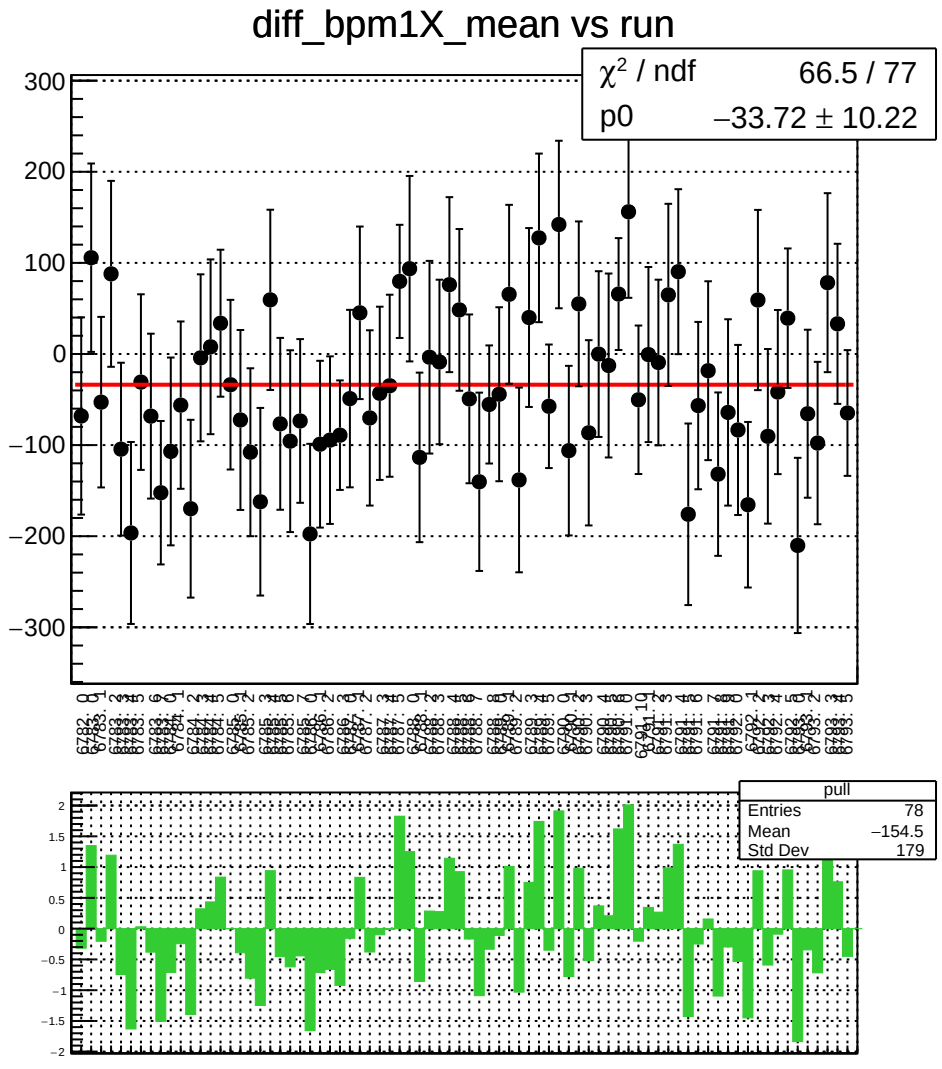

pull1D
Entries 78
Mean −0.01425
Std Dev 0.9329

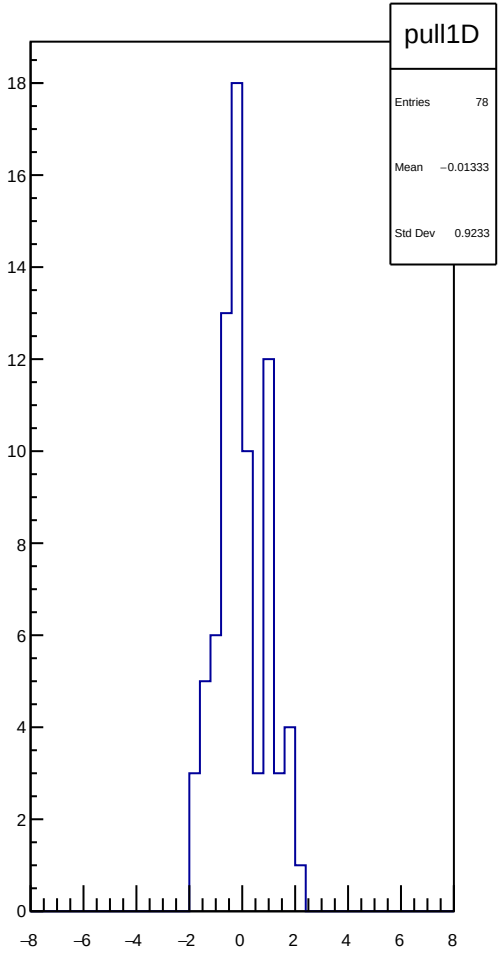

diff_bpm4ecX_rms vs run
χ² / ndf 2445 / 77
p0 9810 ± 7.842
11000
10500
10000
9500
9000

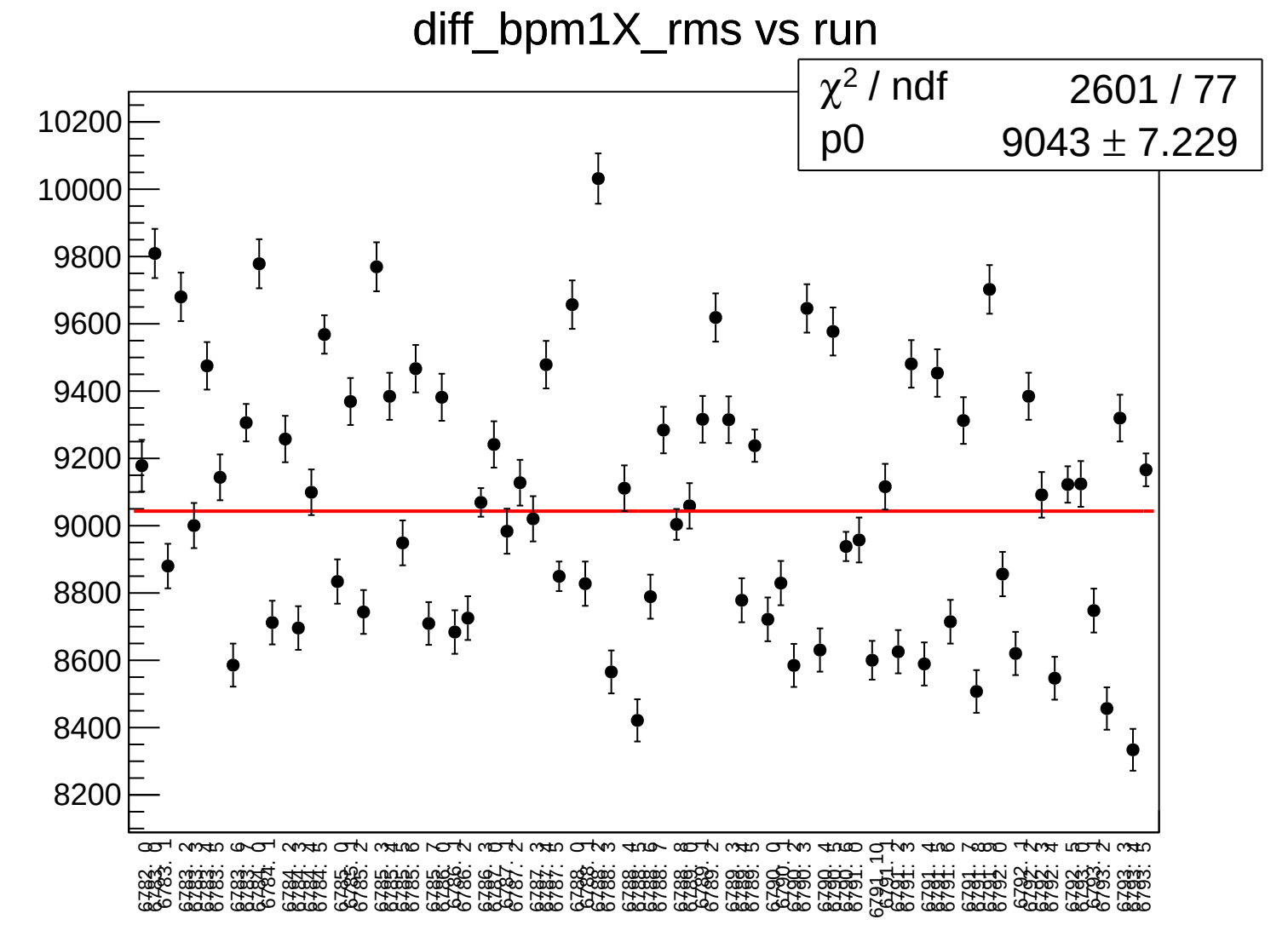

diff_bpm4ecY_mean vs run
χ² / ndf 89.5 / 77
p0 0.01201 ± 8.984
pull
Entries 78
Mean −92.86
Std Dev 135.9

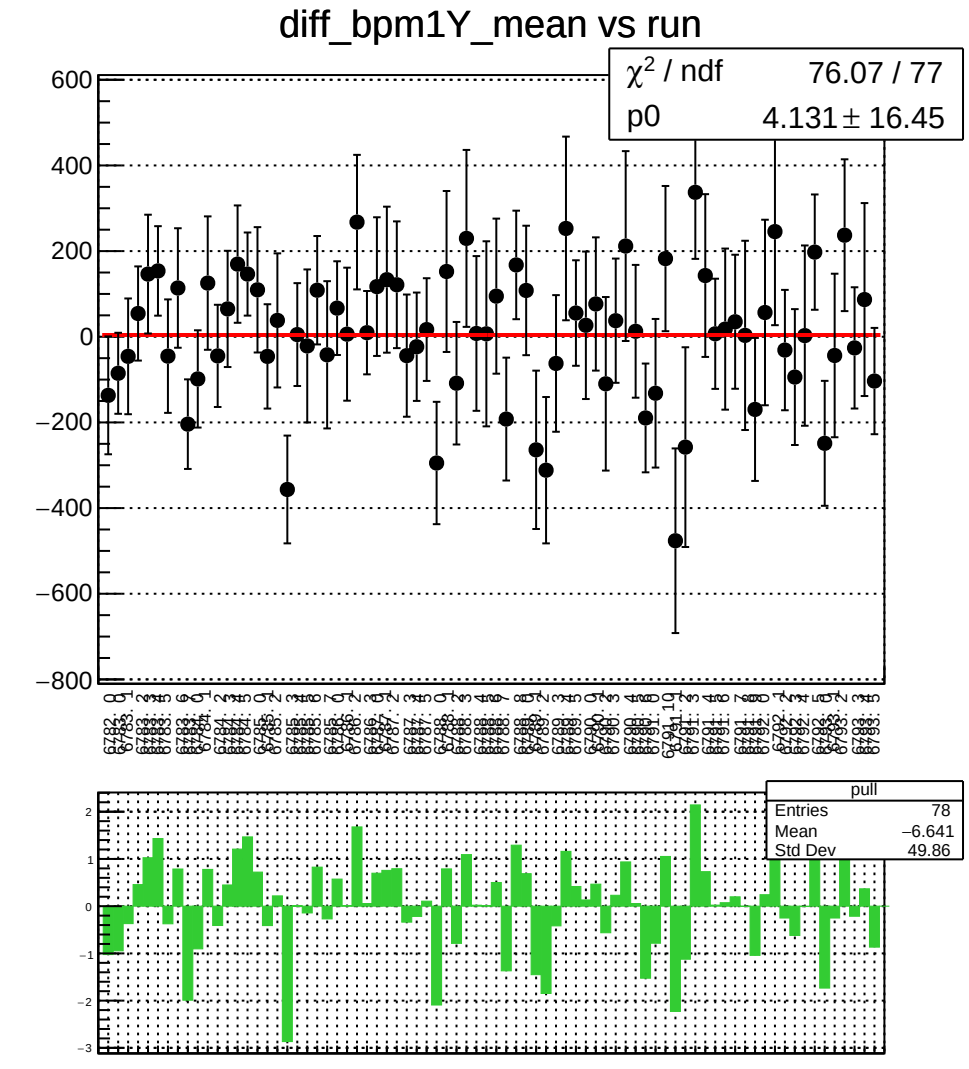

pull1D
Entries 78
Mean 0.01153
Std Dev 1.071

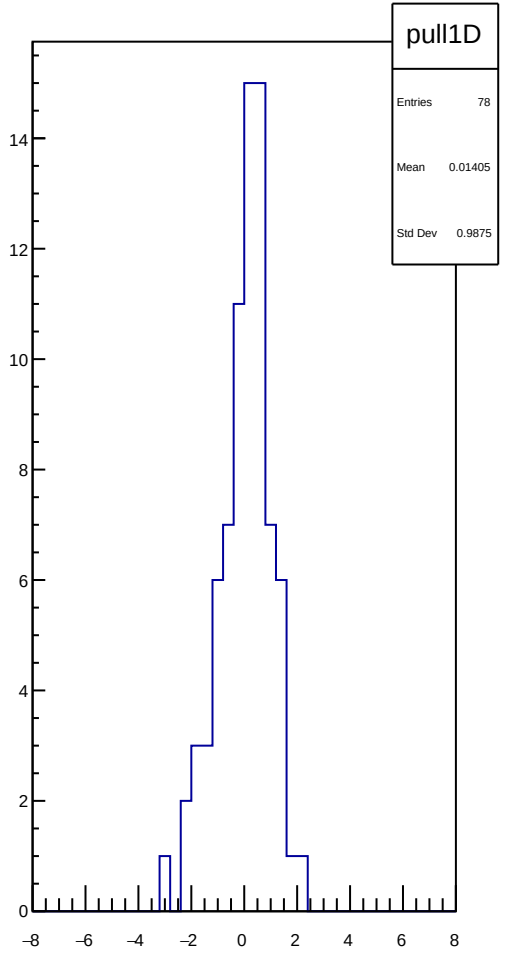

diff_bpm4ecY_rms vs run
χ² / ndf 2.13e+04 / 77
p0 7899 ± 6.353
10000
9000
8000
7000
6000

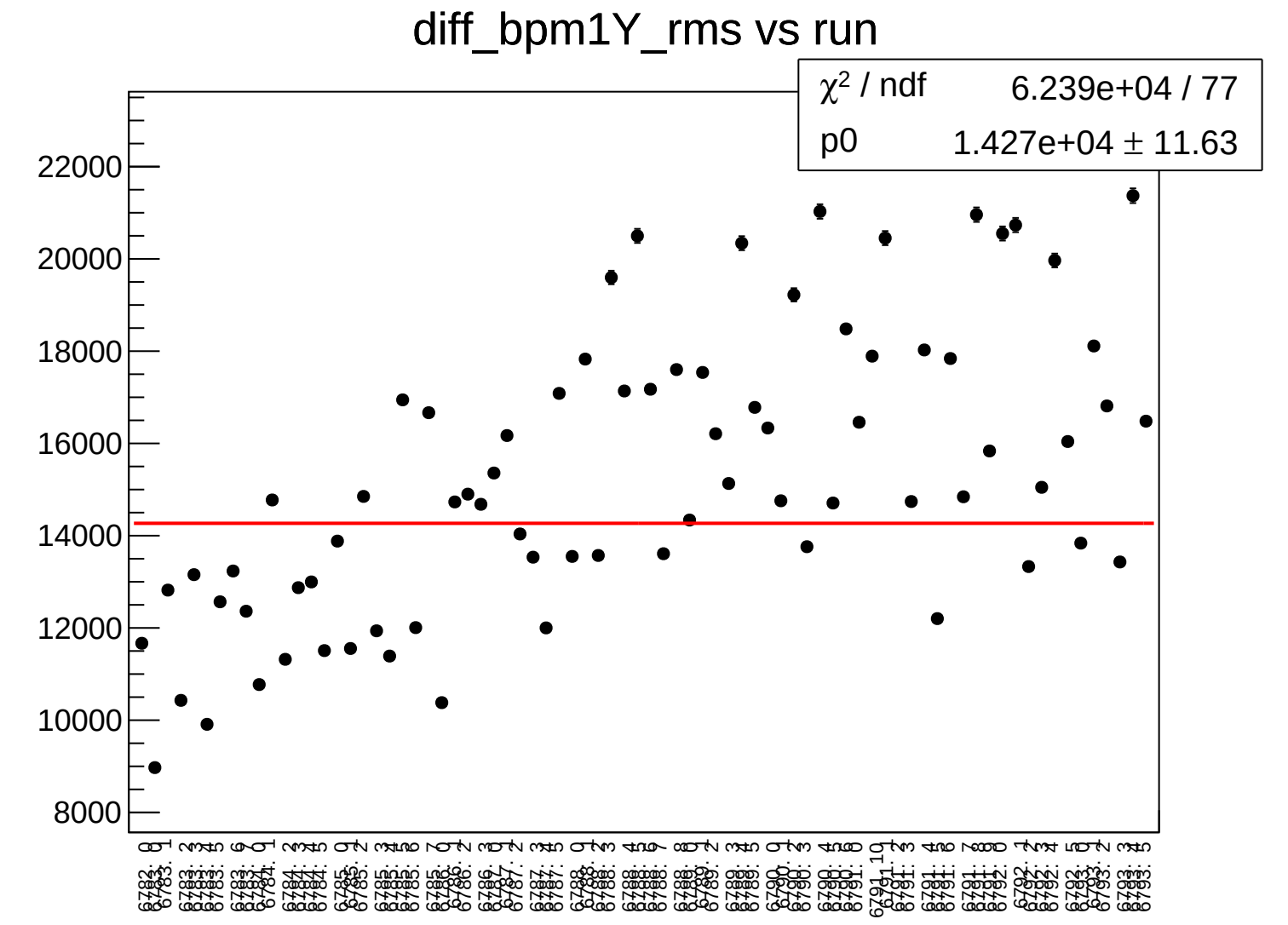

diff_bpm1X_mean vs run
χ² / ndf 66.5 / 77
p0 −33.72 ± 10.22
pull
Entries 78
Mean −154.5
Std Dev 179

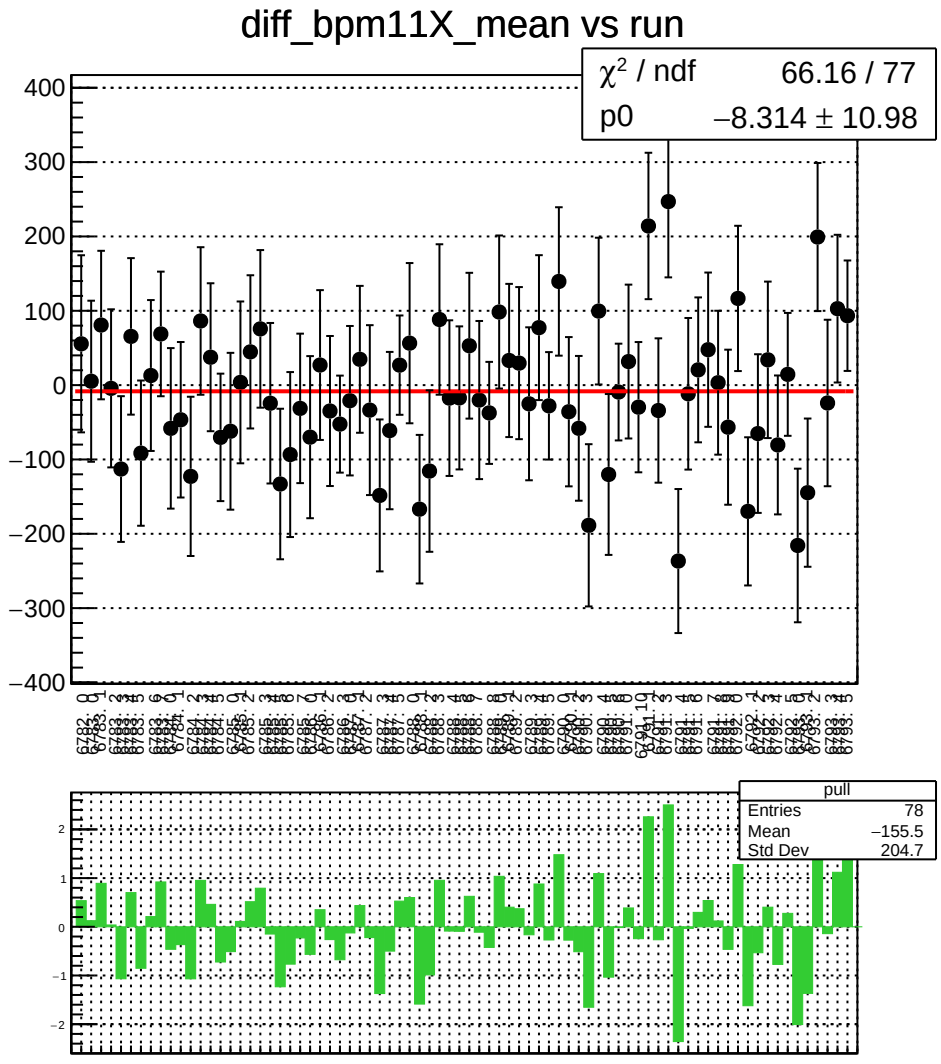

pull1D
Entries 78
Mean −0.01333
Std Dev 0.9233

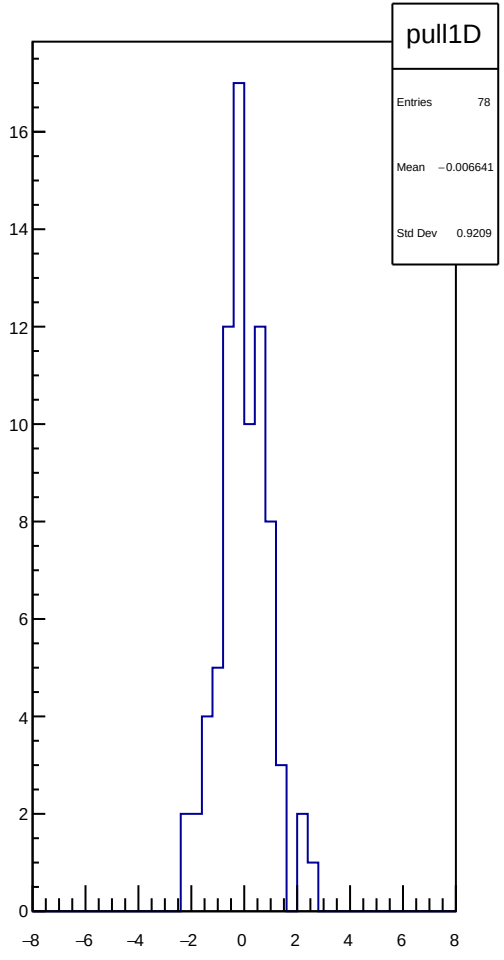

diff_bpm1X_rms vs run
χ² / ndf 2601 / 77
p0 9043 ± 7.229
10200
10000
9800
9600
9400
9200
9000
8800
8600
8400
8200

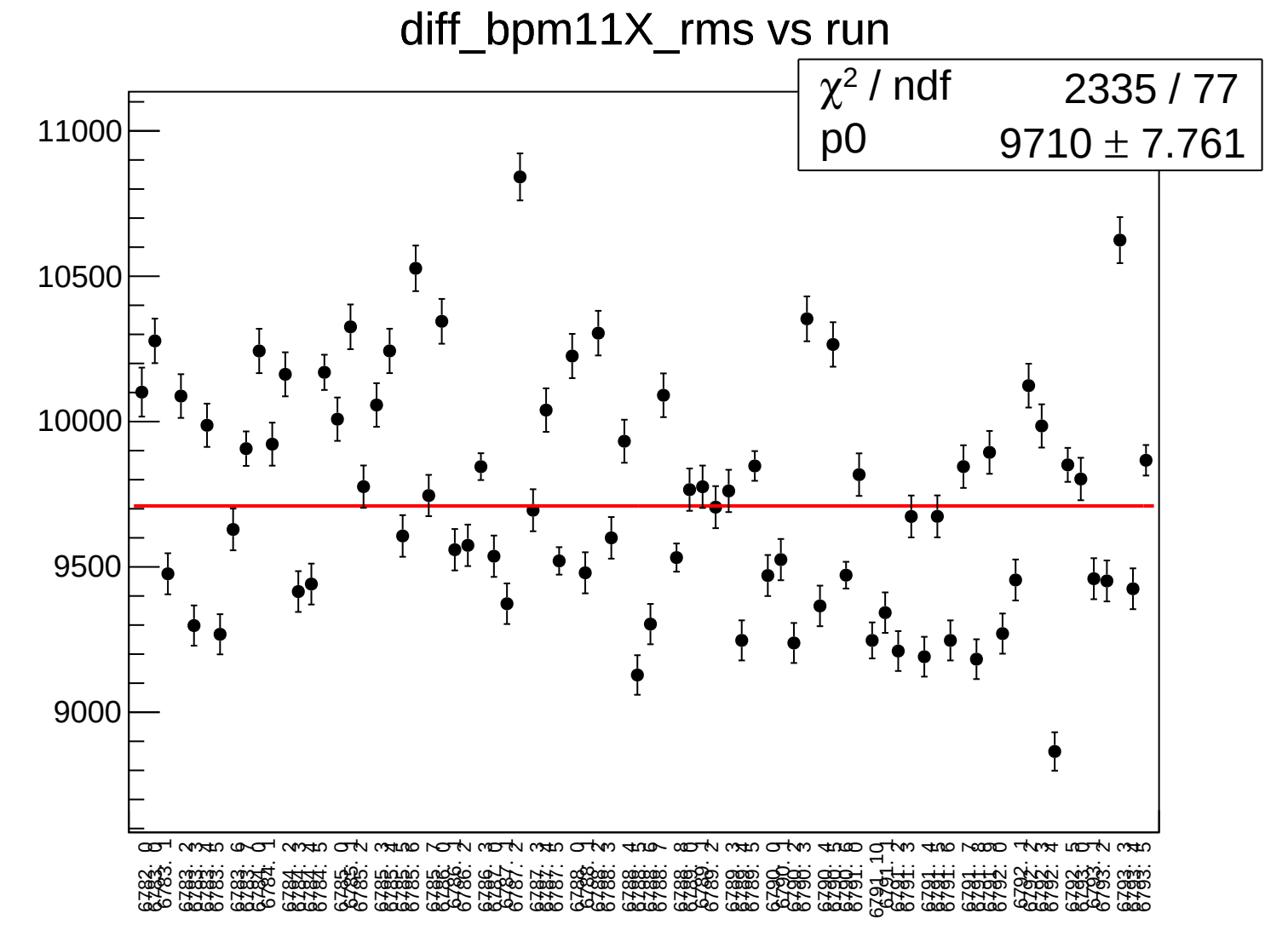

diff_bpm1Y_mean vs run
χ² / ndf 76.07 / 77
p0 4.131 ± 16.45
pull
Entries 78
Mean −6.641
Std Dev 49.86

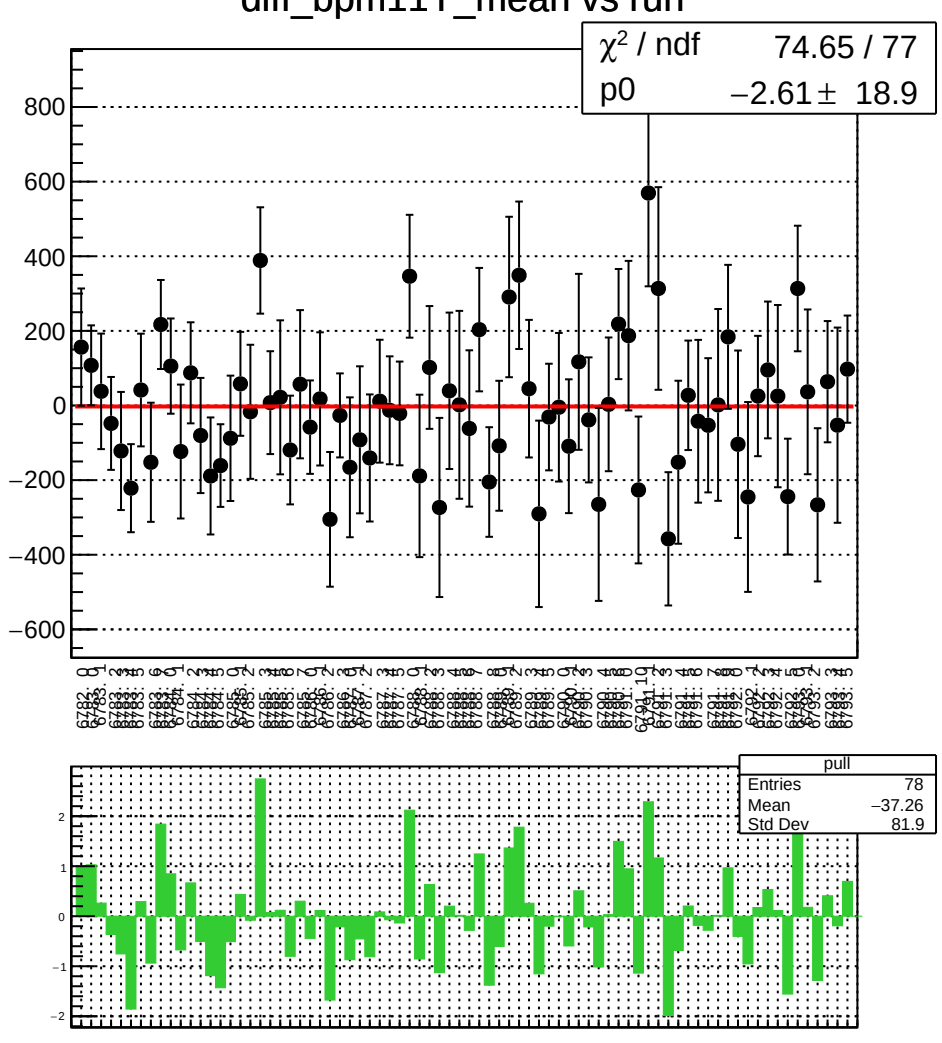

pull1D
Entries 78
Mean 0.01405
Std Dev 0.9875

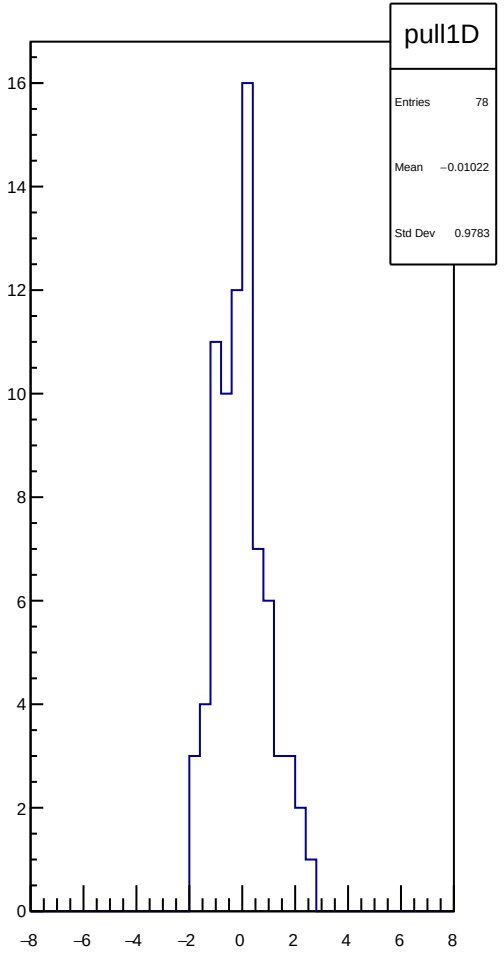

diff_bpm1Y_rms vs run
χ² / ndf 6.239e+04 / 77
p0 1.427e+04 ± 11.63
22000
20000
18000
16000
14000
12000
10000
8000

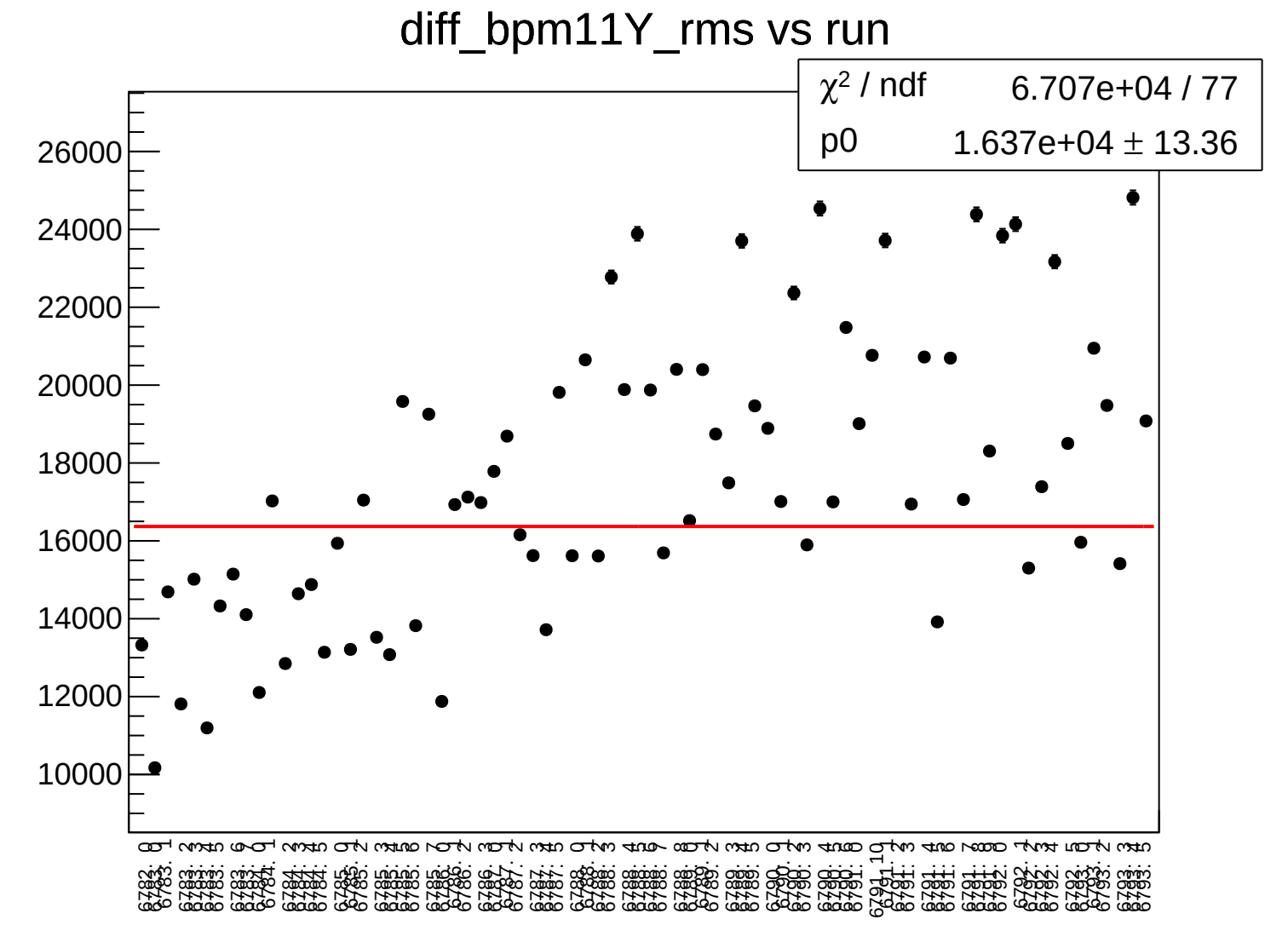

diff_bpm11X_mean vs run
χ² / ndf 66.16 / 77
p0 −8.314 ± 10.98
pull
Entries 78
Mean −155.5
Std Dev 204.7

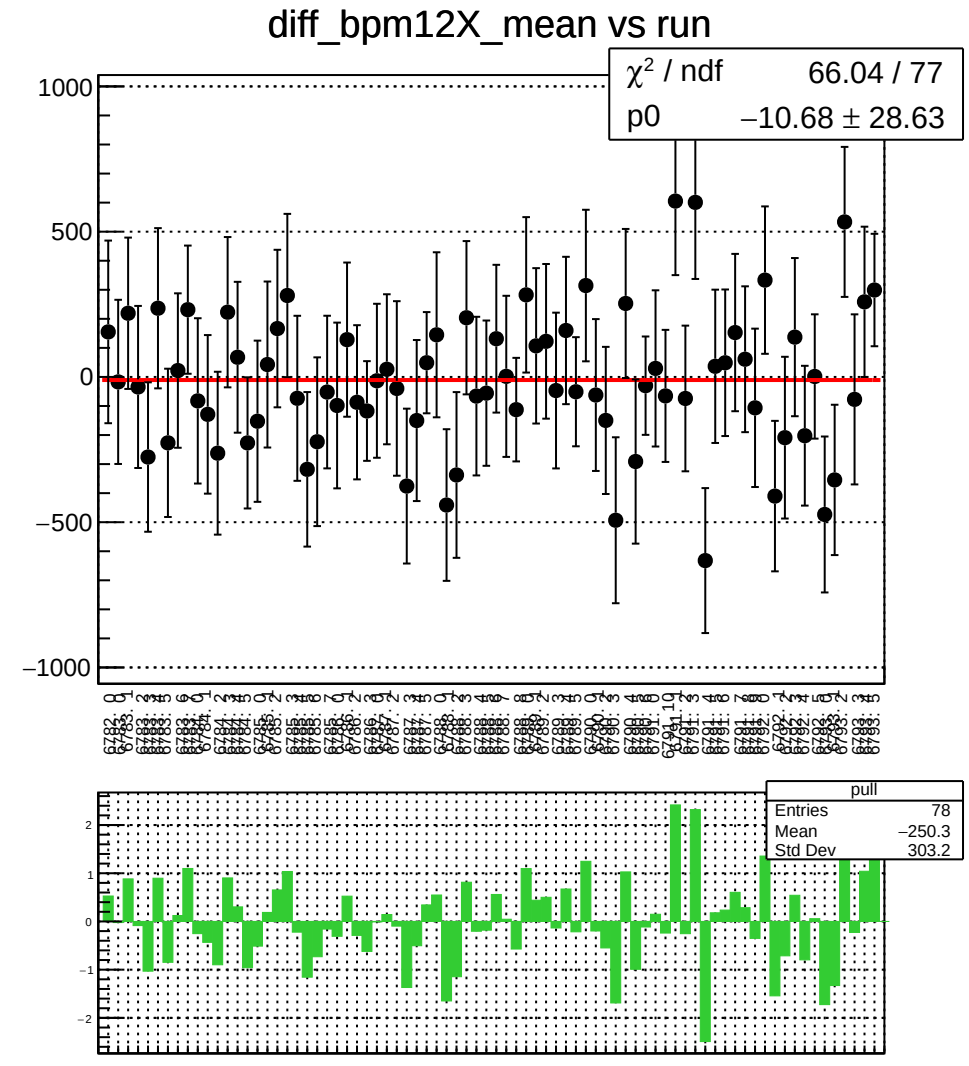

pull1D
Entries 78
Mean −0.006641
Std Dev 0.9209

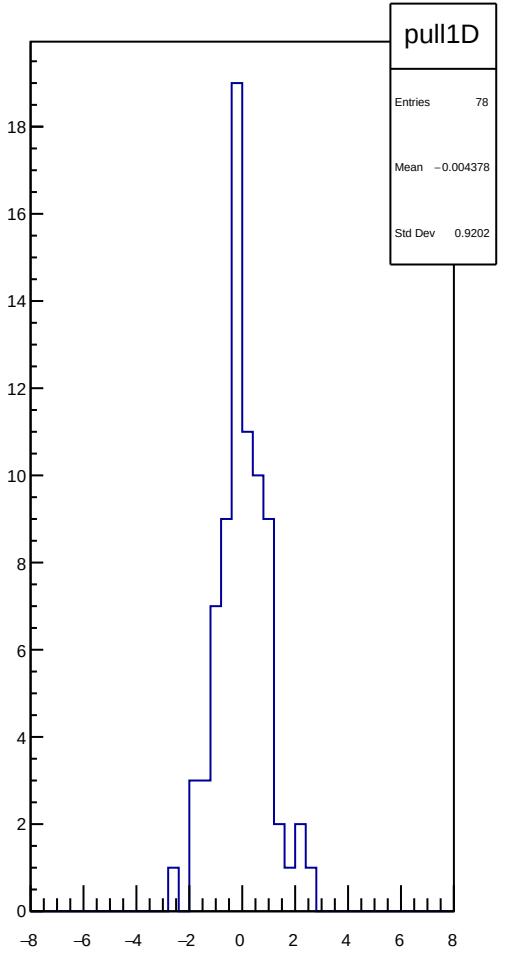

diff_bpm11X_rms vs run
χ² / ndf 2335 / 77
p0 9710 ± 7.761
11000
10500
10000
9500
9000

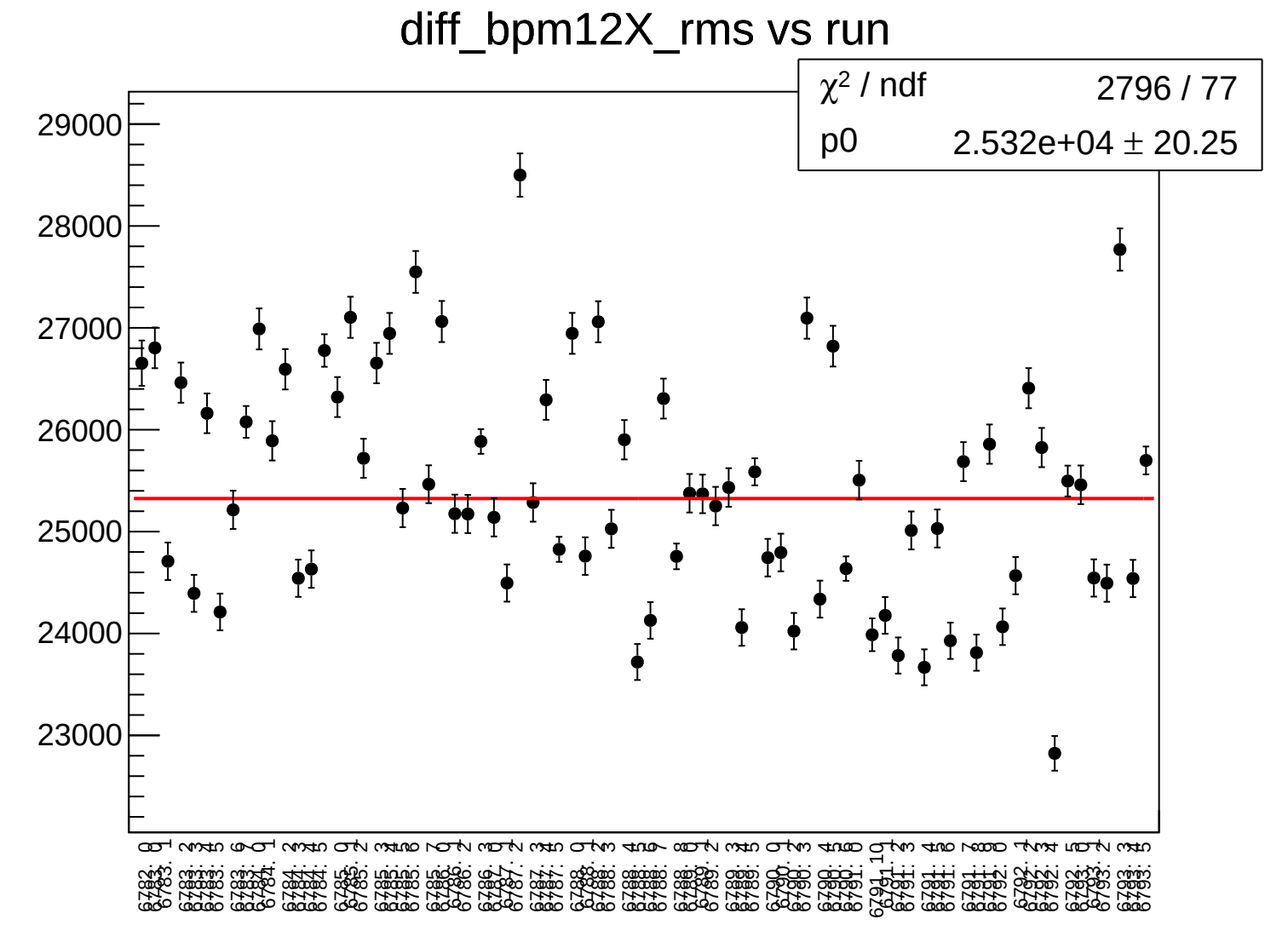

diff_bpm11Y_mean vs run
χ² / ndf 74.65 / 77
p0 −2.61 ± 18.9
pull
Entries 78
Mean −37.26
Std Dev 81.9

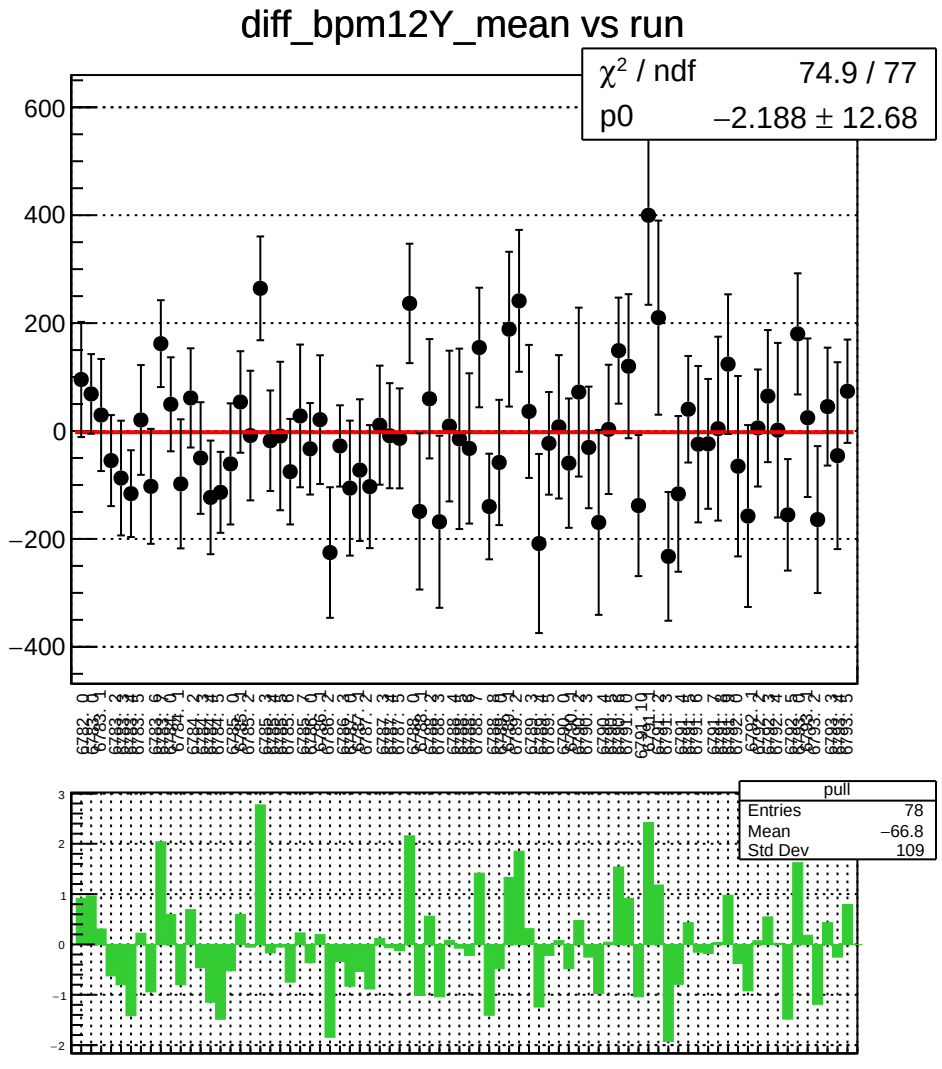

pull1D
Entries 78
Mean −0.01022
Std Dev 0.9783

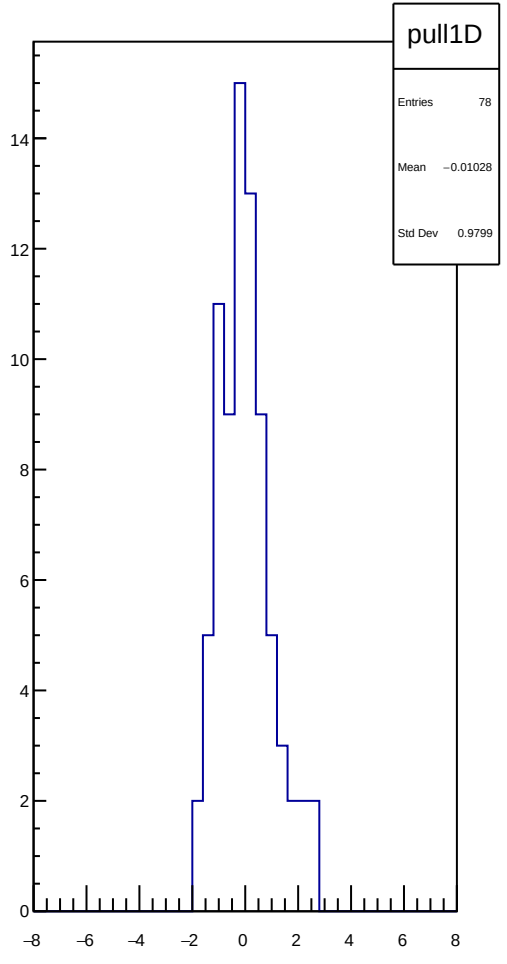

diff_bpm11Y_rms vs run
χ² / ndf 6.707e+04 / 77
p0 1.637e+04 ± 13.36
26000
24000
22000
20000
18000
16000
14000
12000
10000

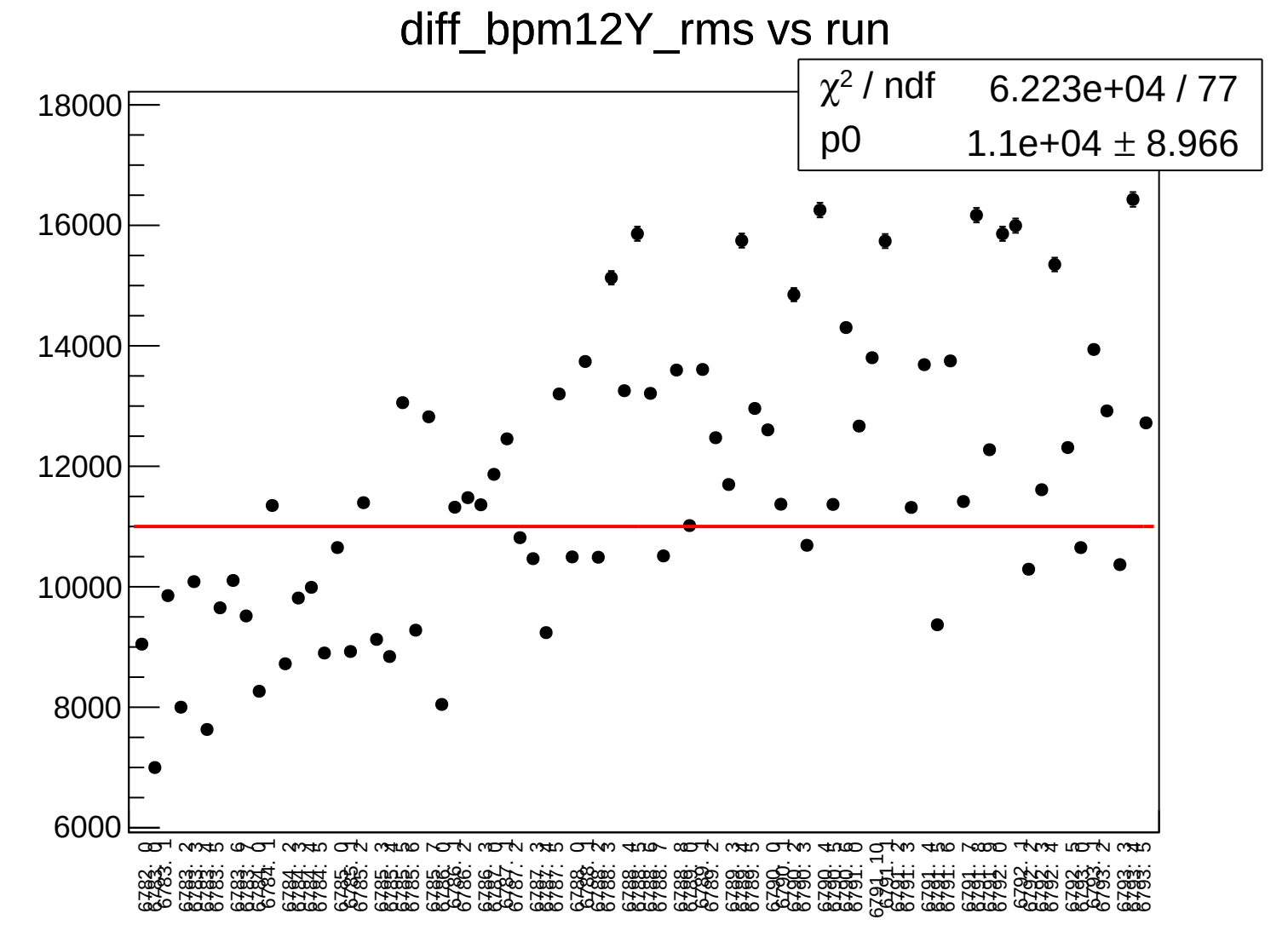

diff_bpm12X_mean vs run
χ² / ndf 66.04 / 77
p0 −10.68 ± 28.63
1000
500
0
−500
−1000
pull
Entries 78
Mean −250.3
Std Dev 303.2
2
1
0
−1
−2

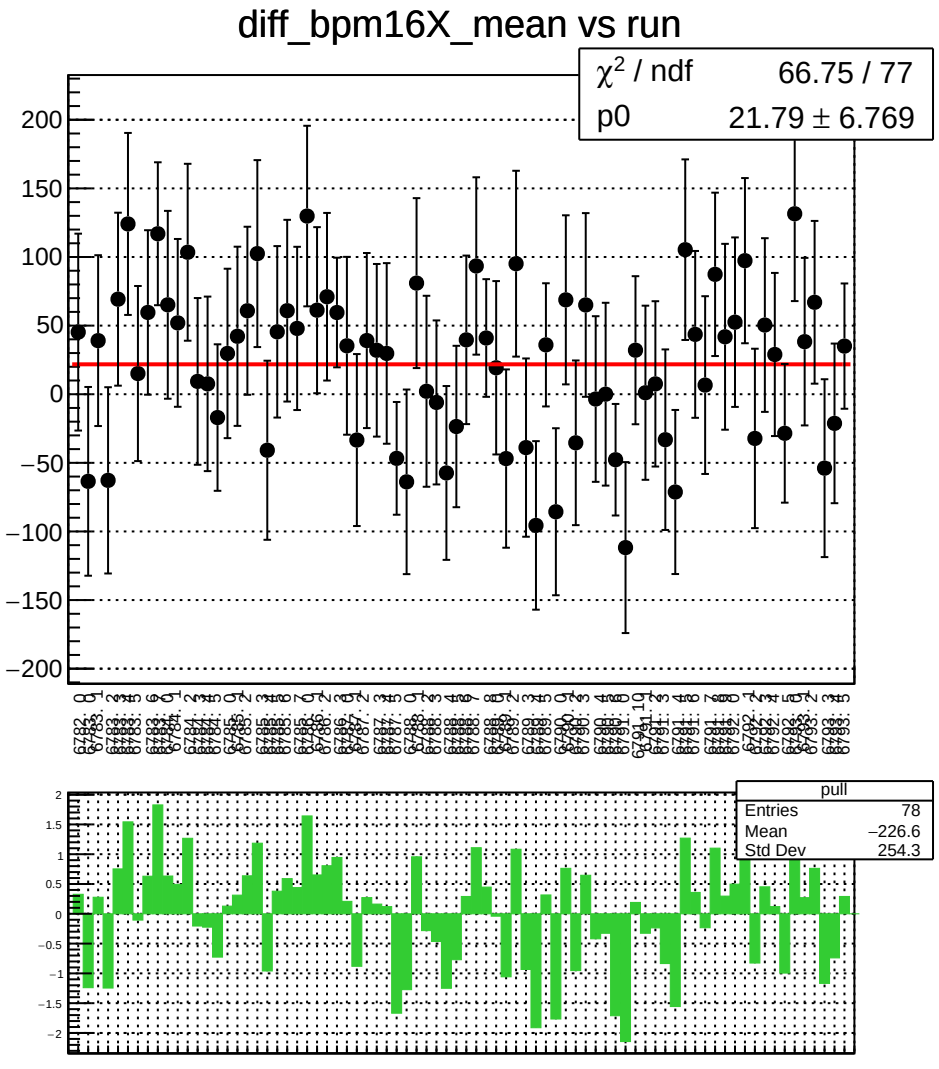

pull1D
Entries 78
Mean −0.004378
Std Dev 0.9202
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

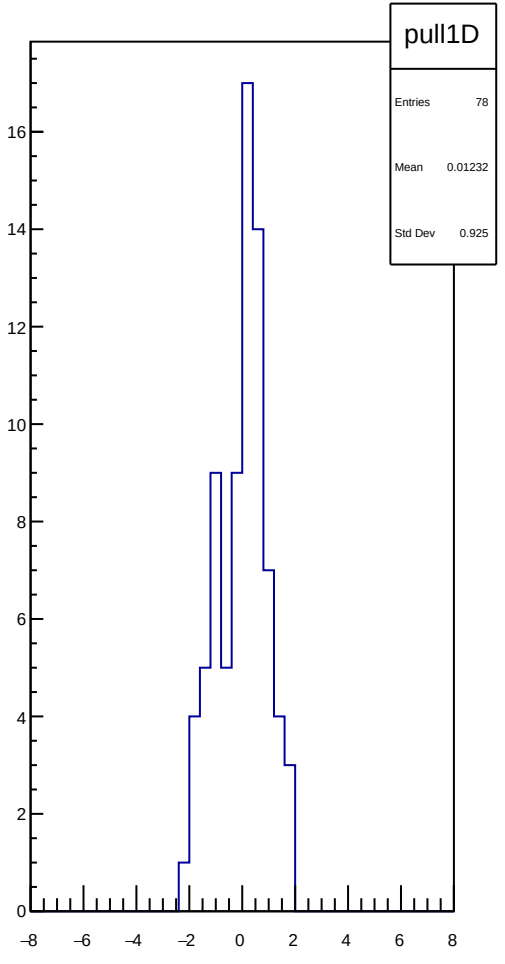

diff_bpm12X_rms vs run
χ² / ndf 2796 / 77
p0 2.532e+04 ± 20.25
29000
28000
27000
26000
25000
24000
23000

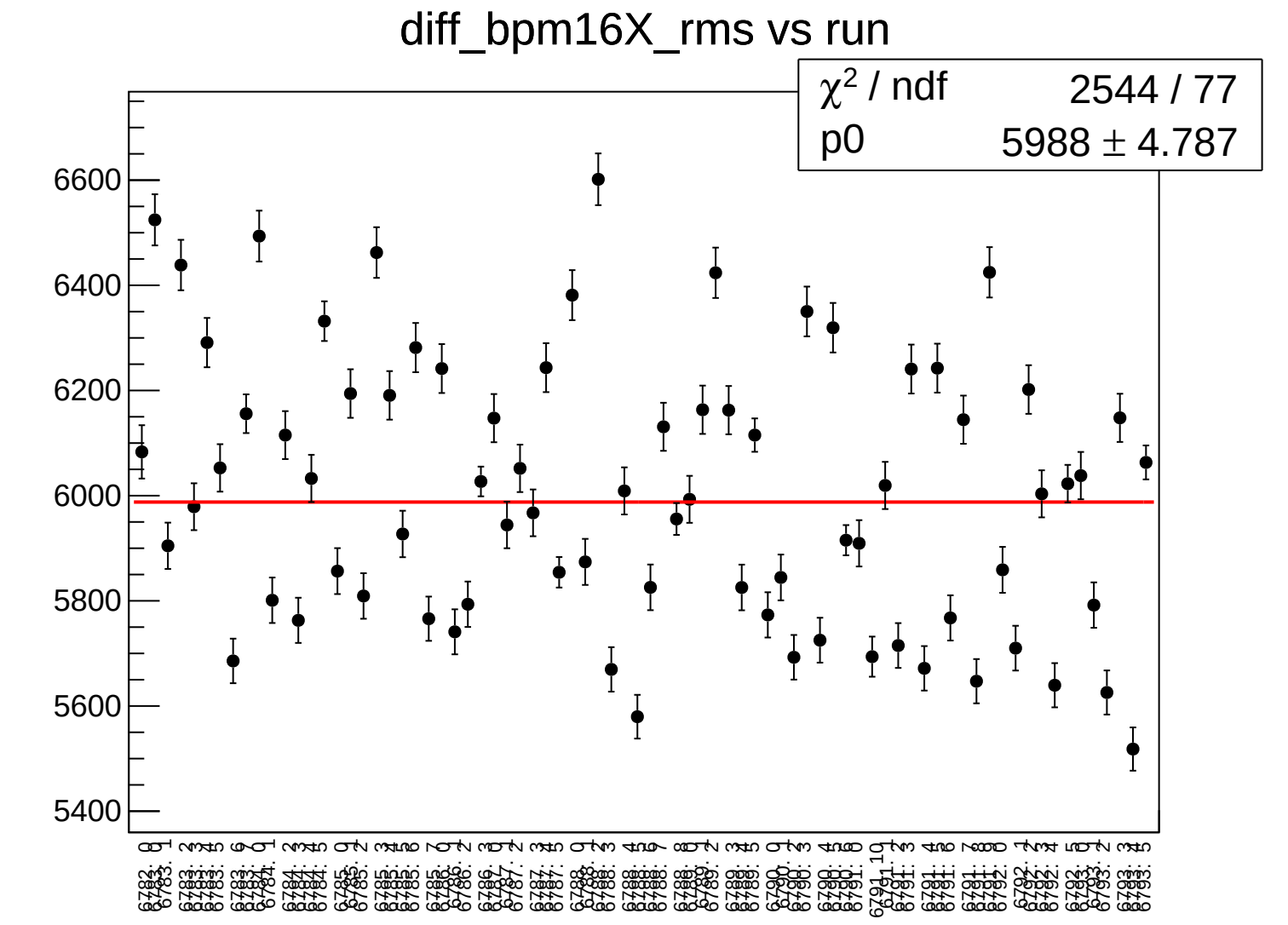

diff_bpm12Y_mean vs run
χ² / ndf 74.9 / 77
p0 −2.188 ± 12.68
600
400
200
0
−200
−400
pull
Entries 78
Mean −66.8
Std Dev 109
3
2
1
0
−1
−2

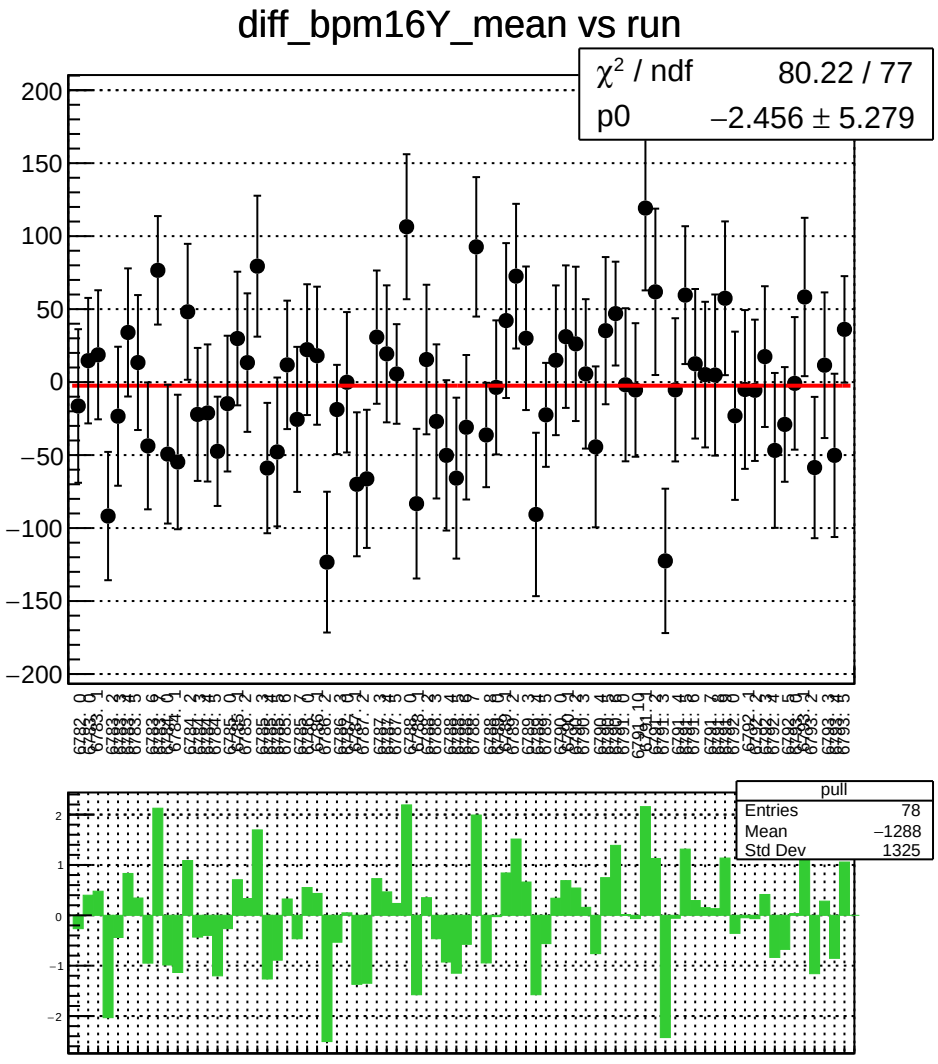

pull1D
Entries 78
Mean −0.01028
Std Dev 0.9799
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

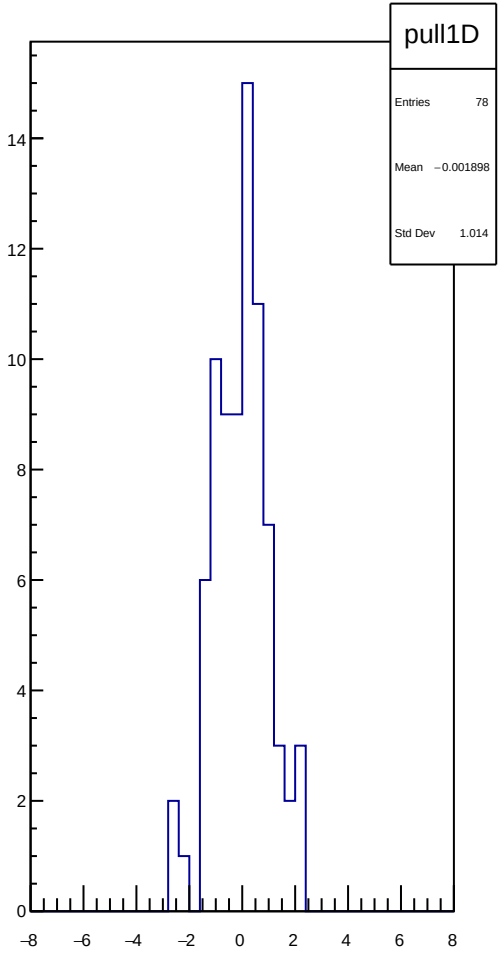

diff_bpm12Y_rms vs run
χ² / ndf 6.223e+04 / 77
p0 1.1e+04 ± 8.966
18000
16000
14000
12000
10000
8000
6000

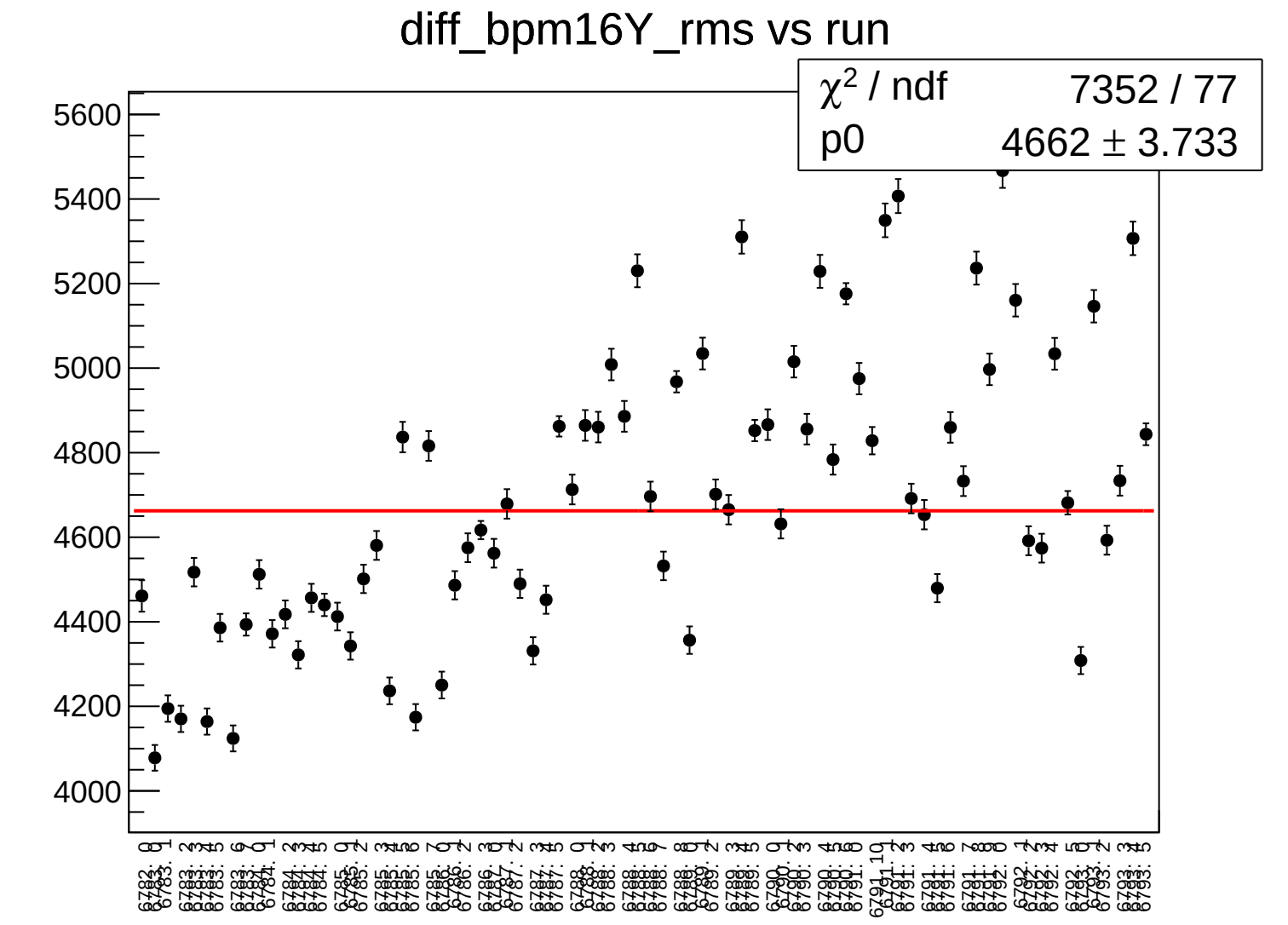

diff_bpm16X_mean vs run
χ^2 / ndf 66.75 / 77
p0 21.79 ± 6.769
pull
Entries 78
Mean −226.6
Std Dev 254.3

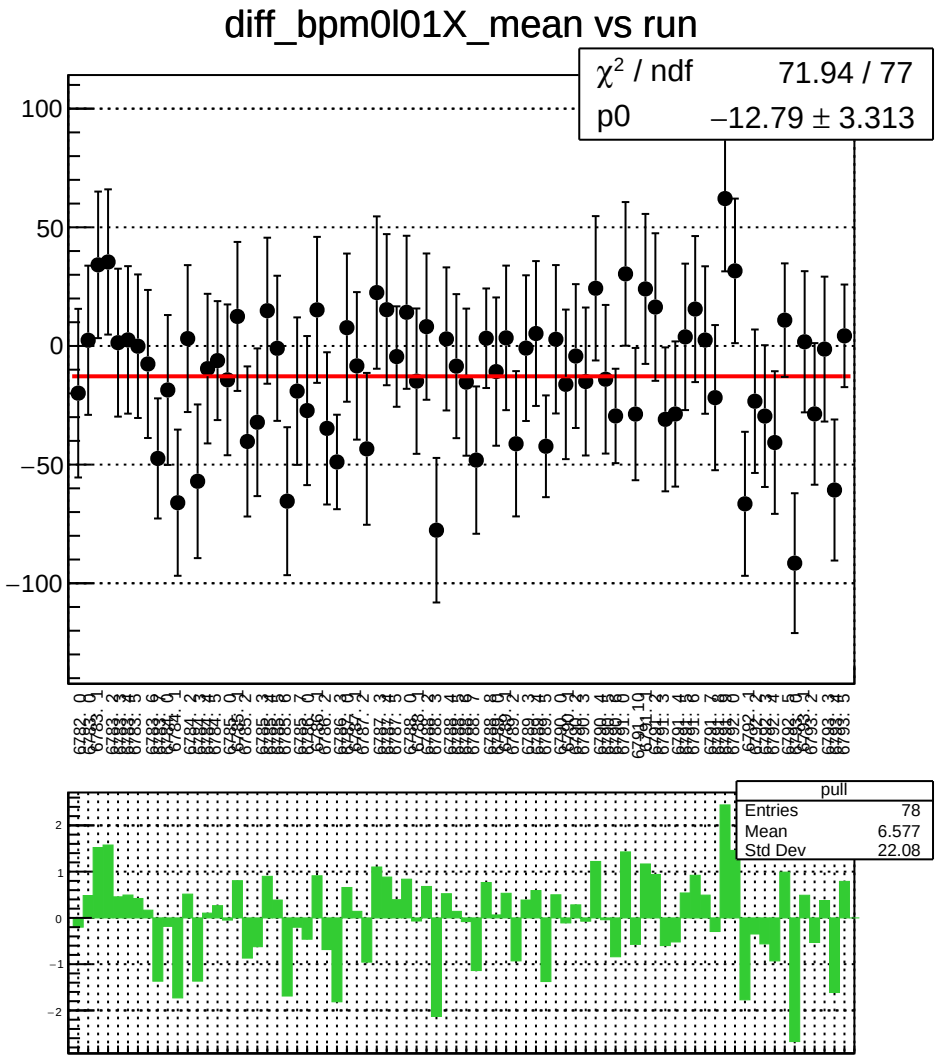

pull1D
Entries 78
Mean 0.01232
Std Dev 0.925

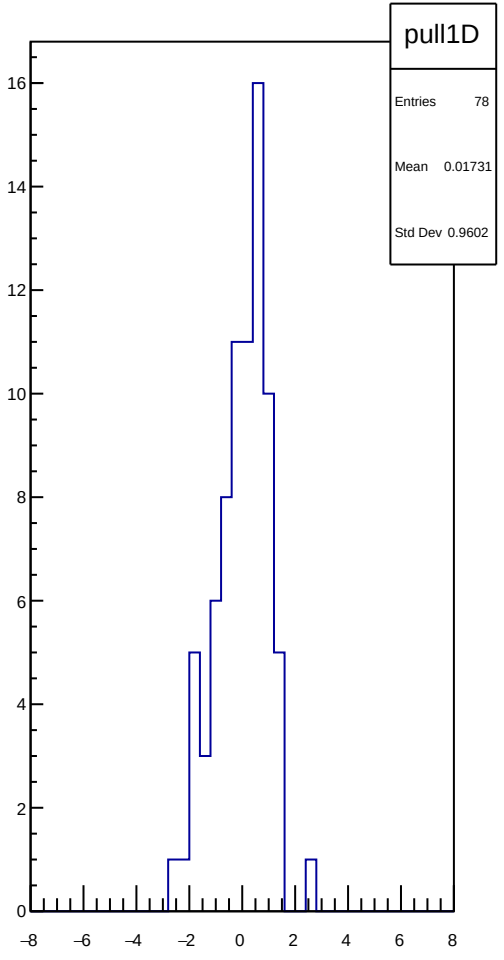

diff_bpm16X_rms vs run
χ² / ndf 2544 / 77
p0 5988 ± 4.787
6600
6400
6200
6000
5800
5600
5400

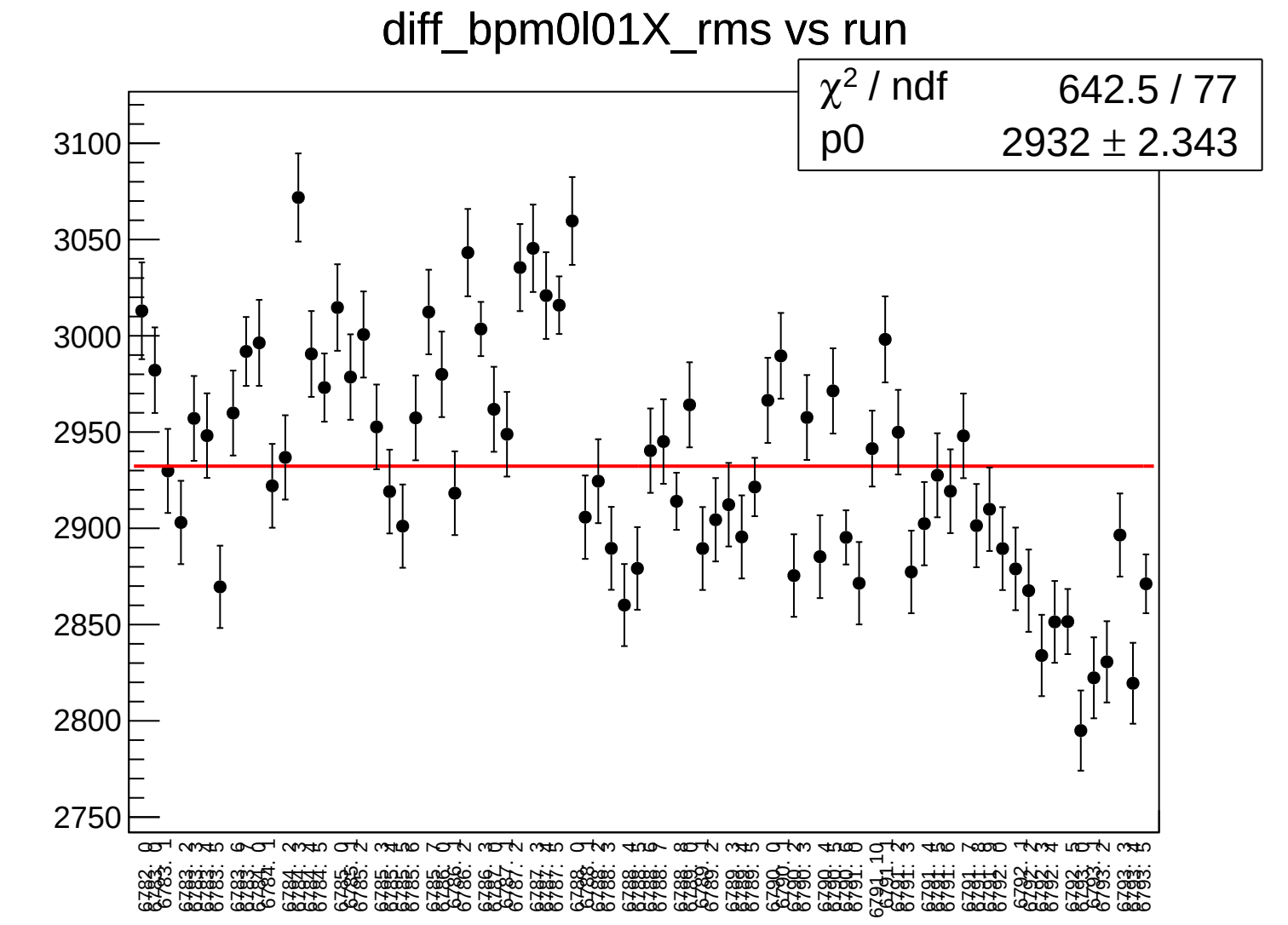

diff_bpm16Y_mean vs run
χ² / ndf 80.22 / 77
p0 −2.456 ± 5.279
pull
Entries 78
Mean −1288
Std Dev 1325

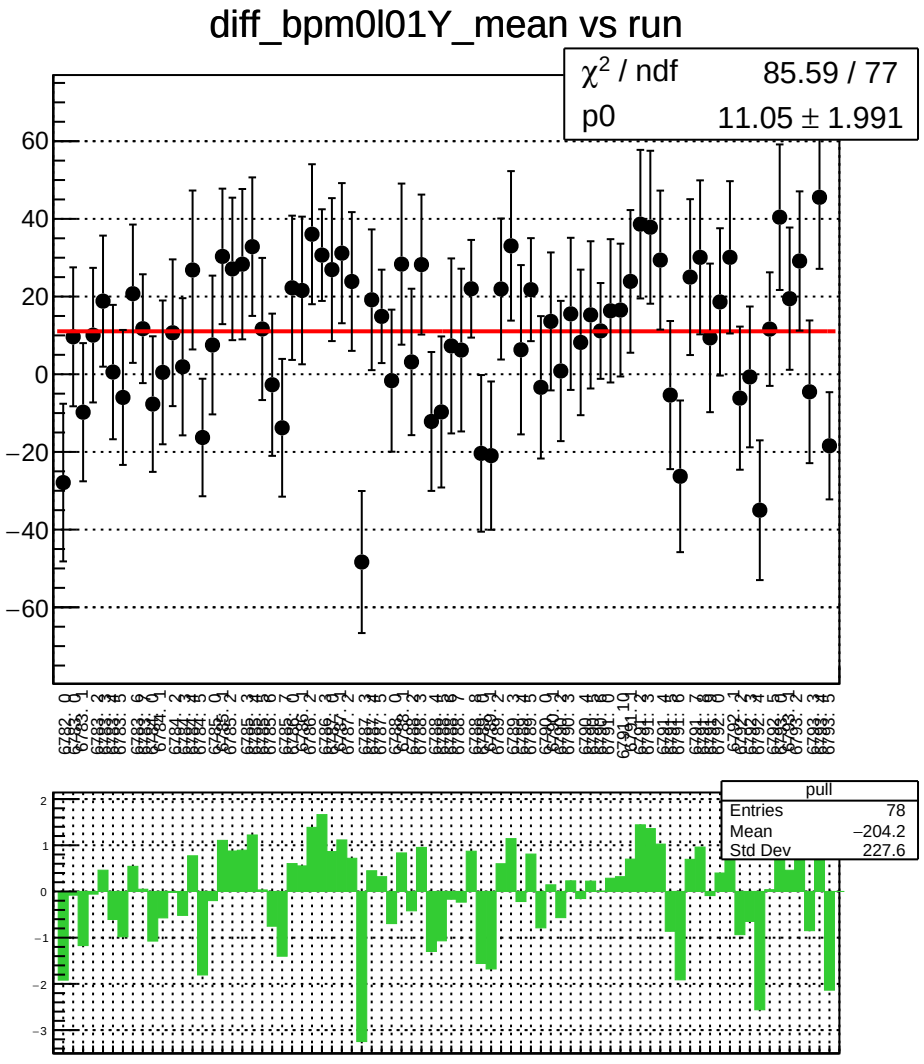

pull1D
Entries 78
Mean −0.001898
Std Dev 1.014

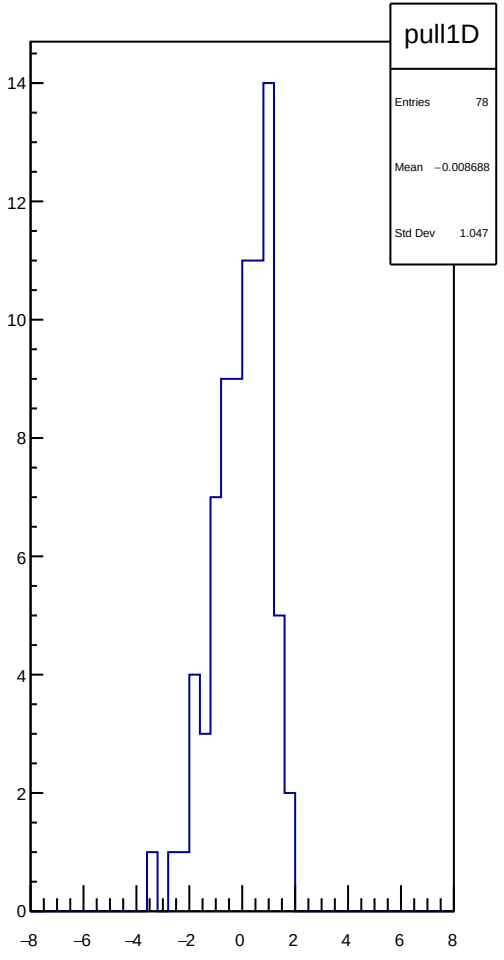

diff_bpm16Y_rms vs run
χ^2 / ndf 7352 / 77
p0 4662 ± 3.733
5600
5400
5200
5000
4800
4600
4400
4200
4000

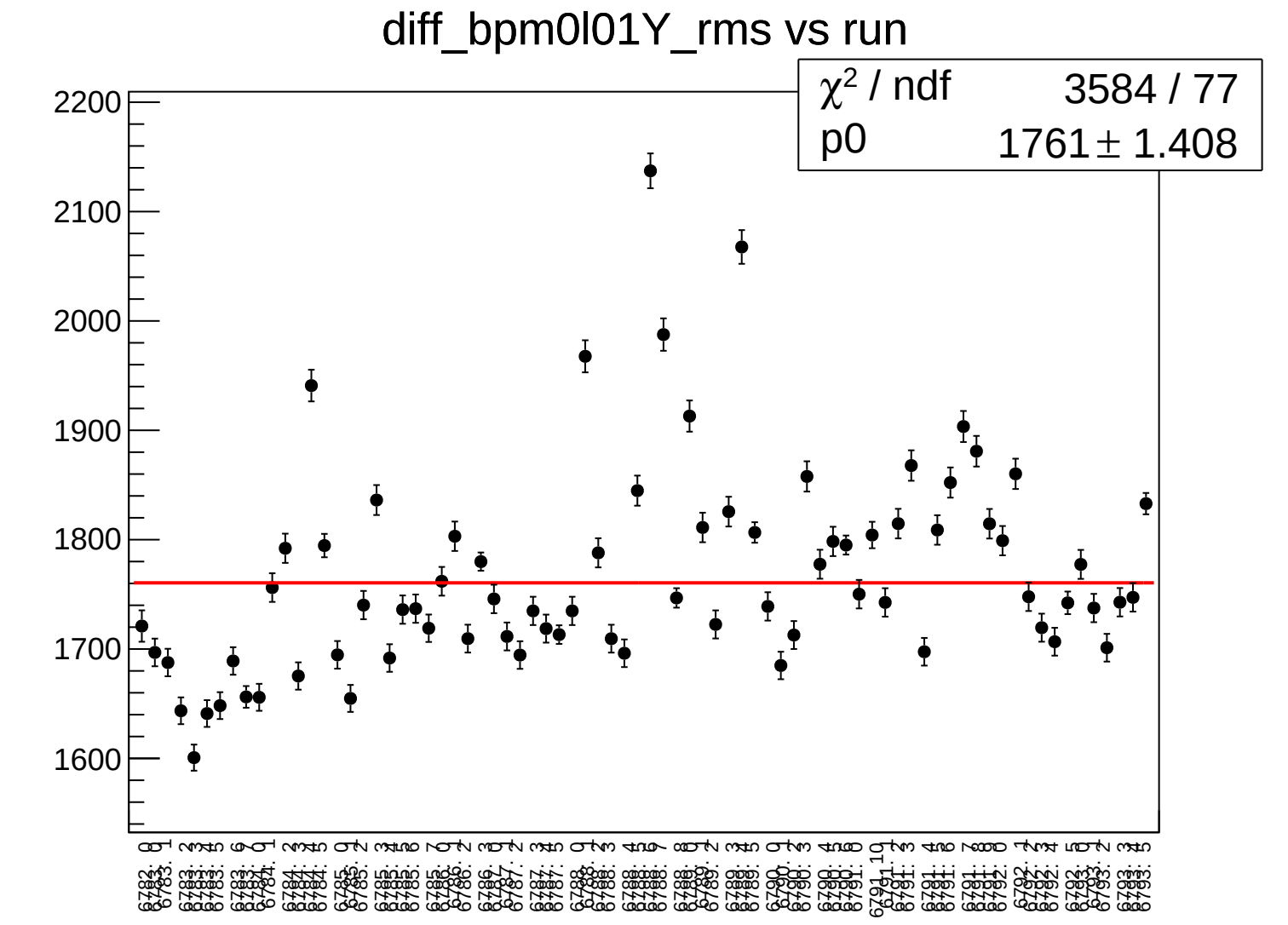

diff_bpm0l01X_mean vs run
χ² / ndf 71.94 / 77
p0 −12.79 ± 3.313
100
50
0
−50
−100
pull
Entries 78
Mean 6.577
Std Dev 22.08
2
1
0
−1
−2

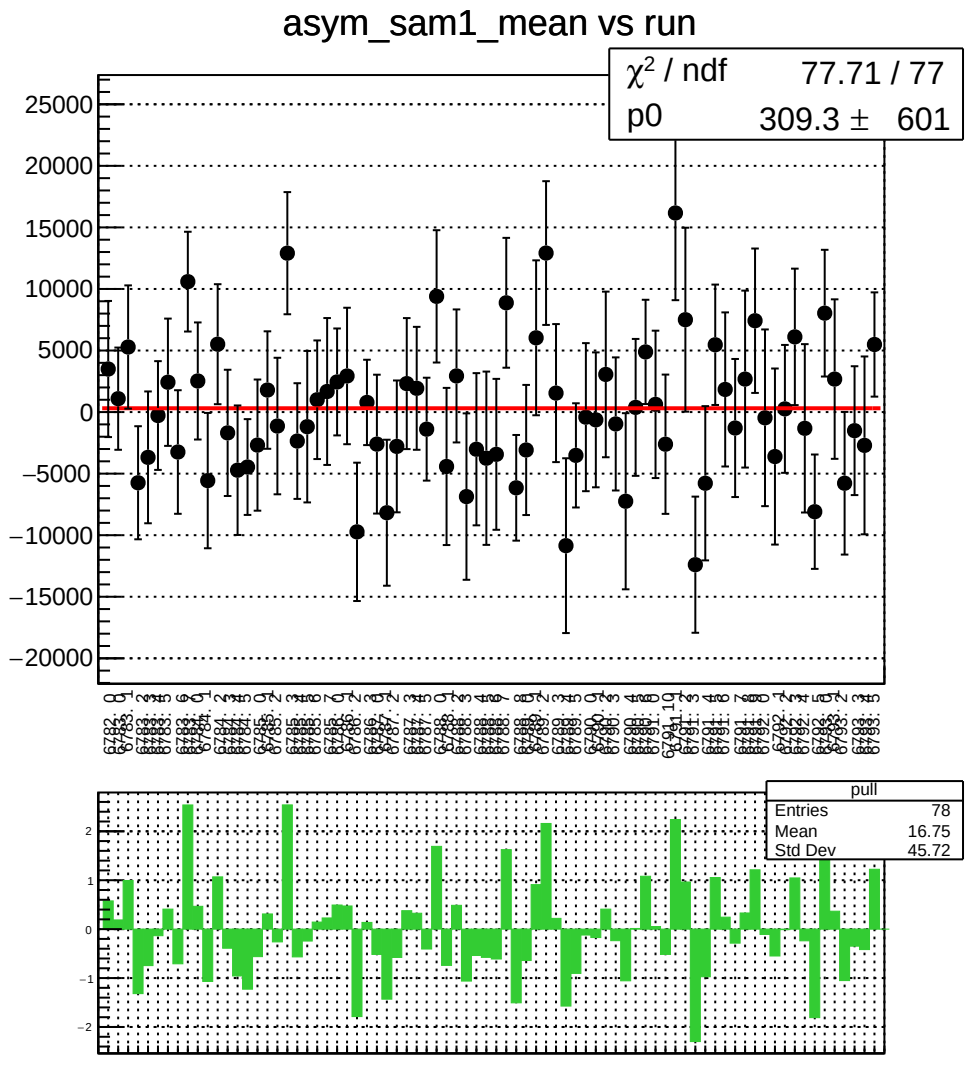

pull1D
Entries 78
Mean 0.01731
Std Dev 0.9602
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

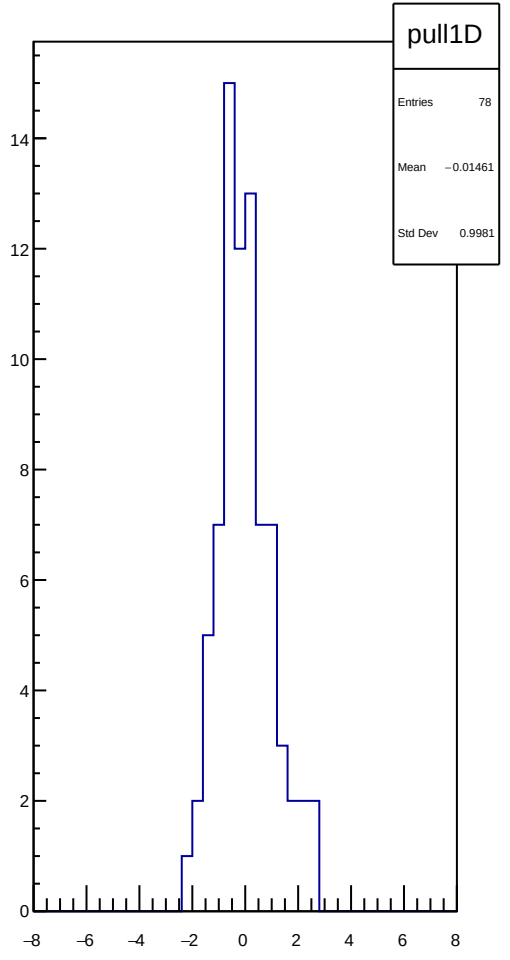

diff_bpm0l01X_rms vs run
χ² / ndf 642.5 / 77
p0 2932 ± 2.343
3100
3050
3000
2950
2900
2850
2800
2750

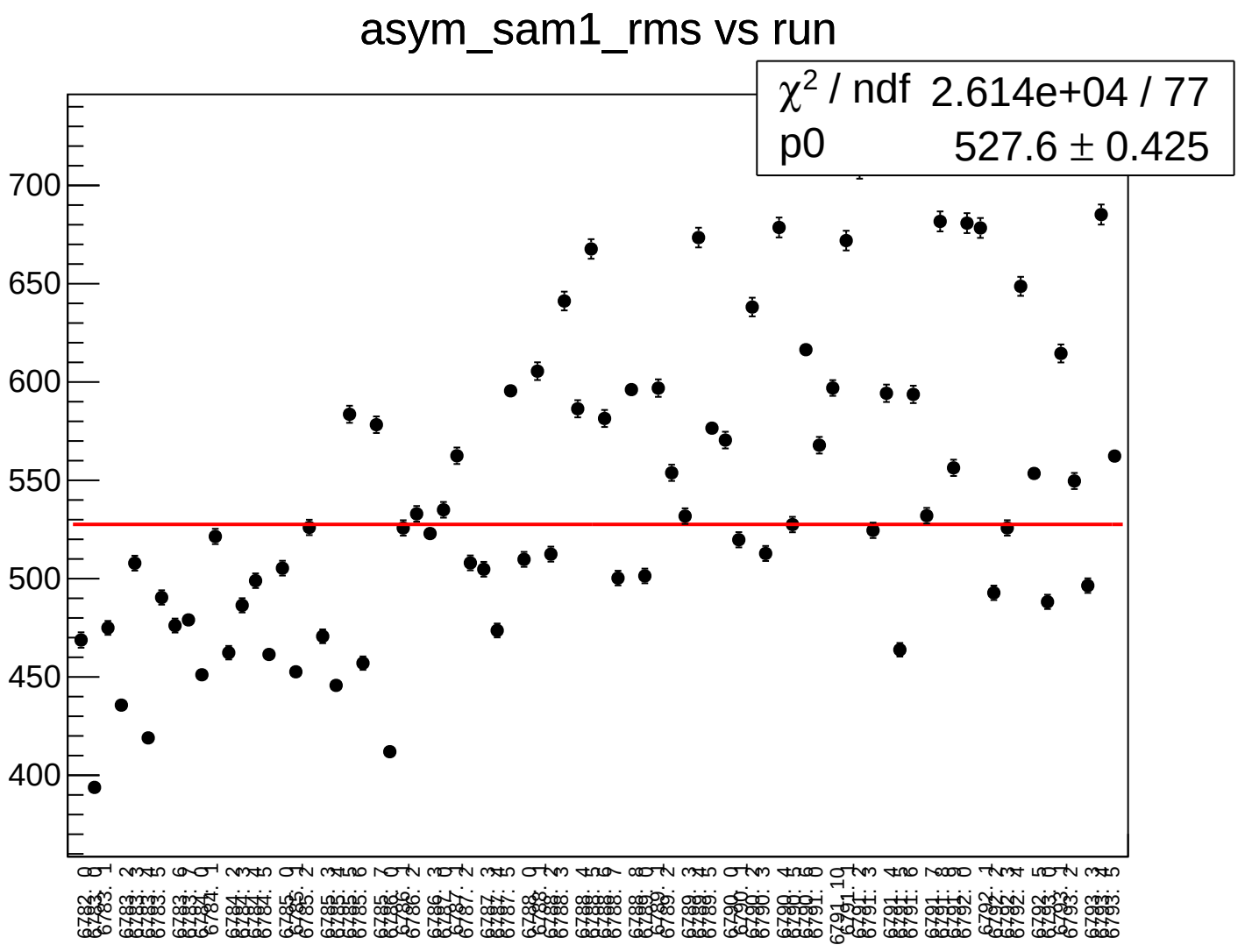

diff_bpm0l01Y_mean vs run
χ² / ndf 85.59 / 77
p0 11.05 ± 1.991
pull
Entries 78
Mean −204.2
Std Dev 227.6

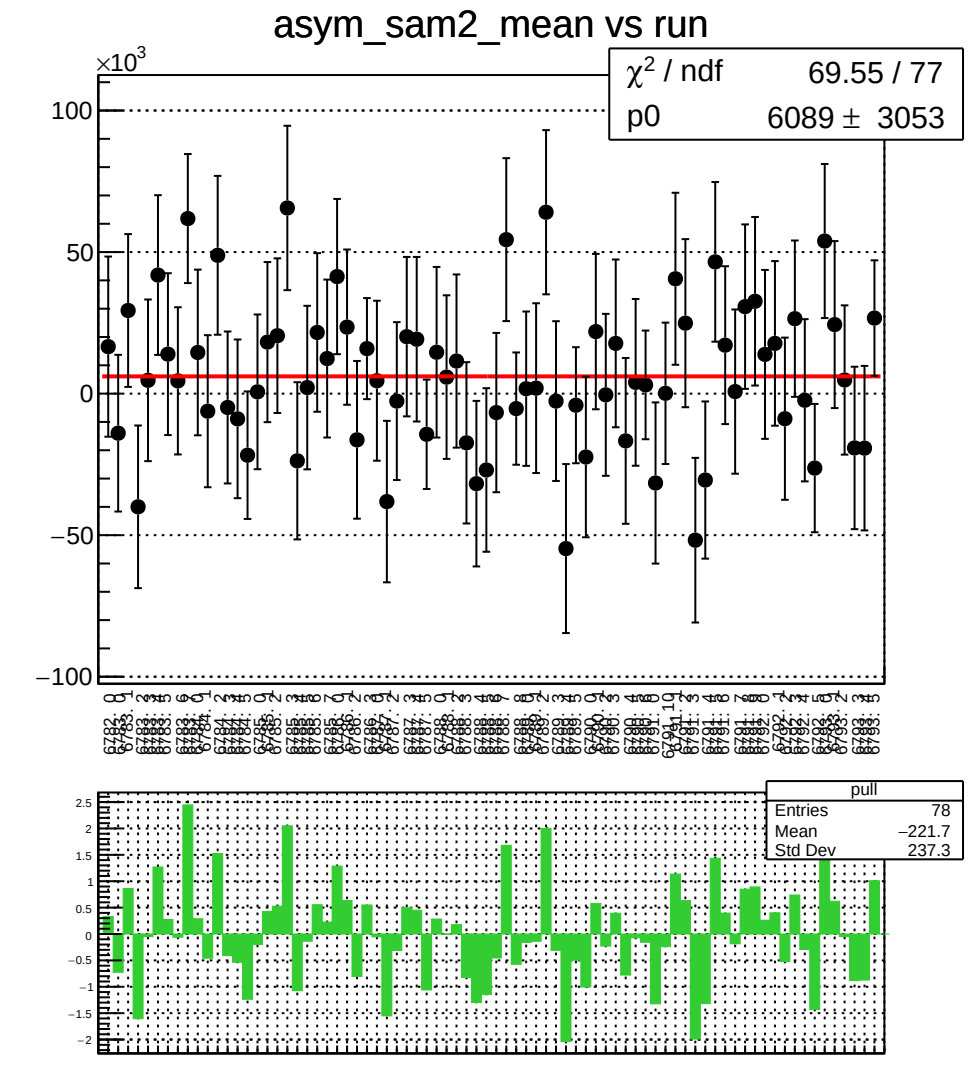

pull1D
Entries 78
Mean −0.008688
Std Dev 1.047

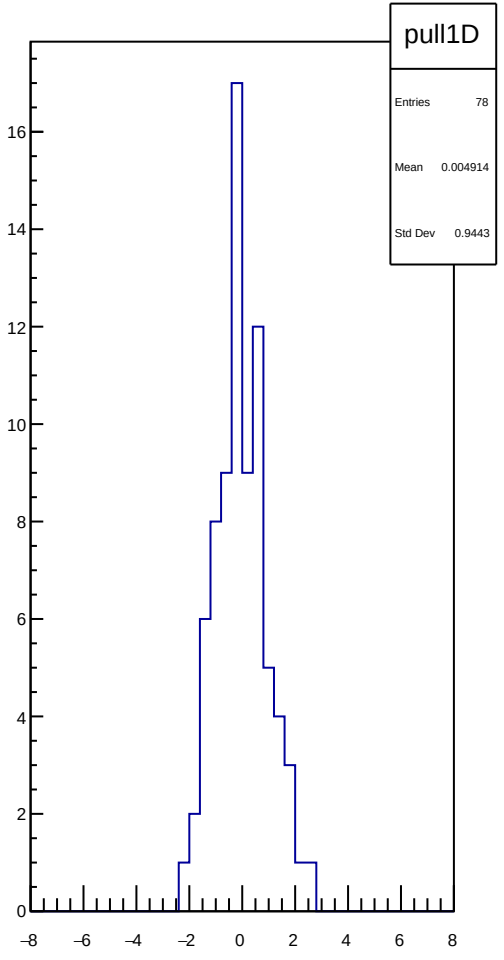

diff_bpm0l01Y_rms vs run
χ² / ndf 3584 / 77
p0 1761 ± 1.408
2200
2100
2000
1900
1800
1700
1600

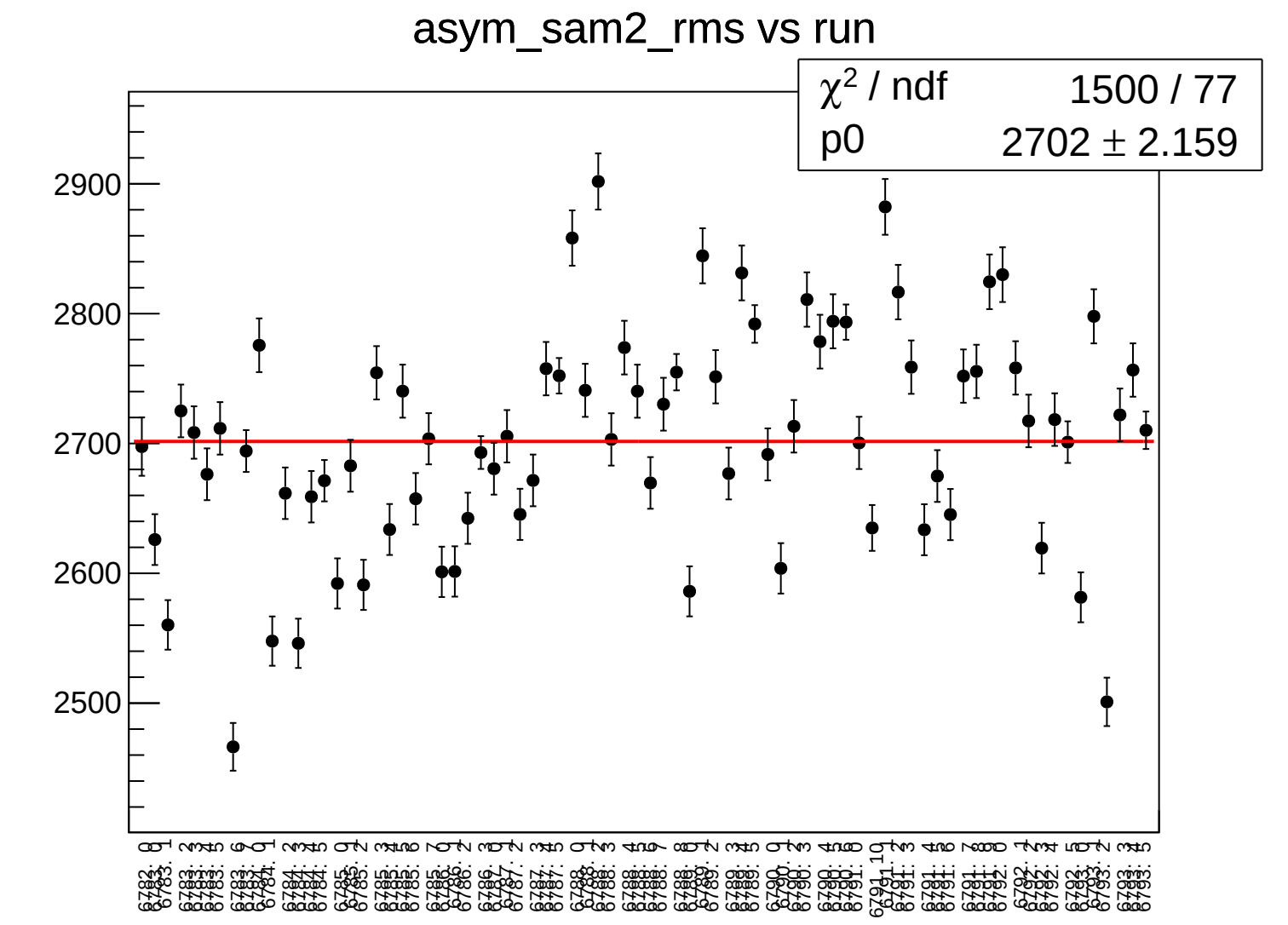

asym_sam1_mean vs run
χ² / ndf 77.71 / 77
p0 309.3 ± 601
pull
Entries 78
Mean 16.75
Std Dev 45.72

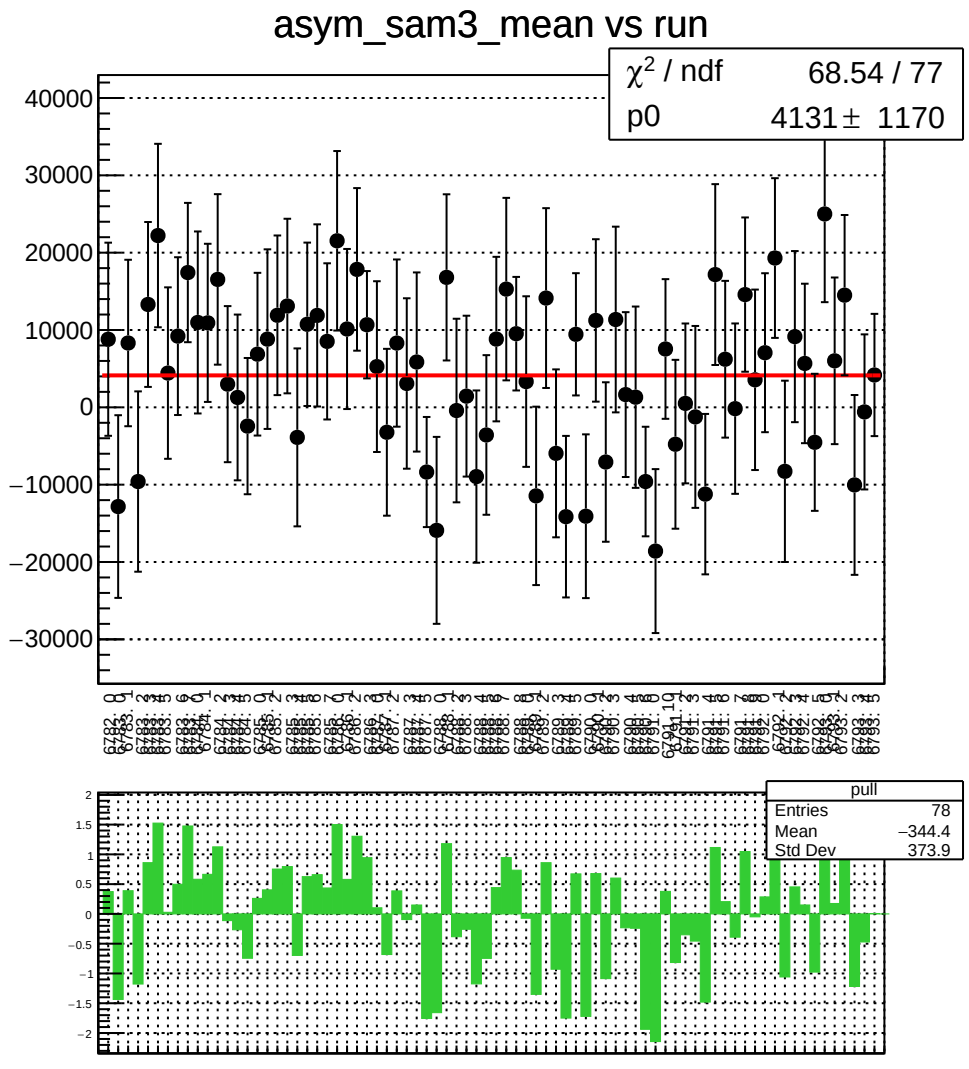

pull1D
Entries 78
Mean −0.01461
Std Dev 0.9981

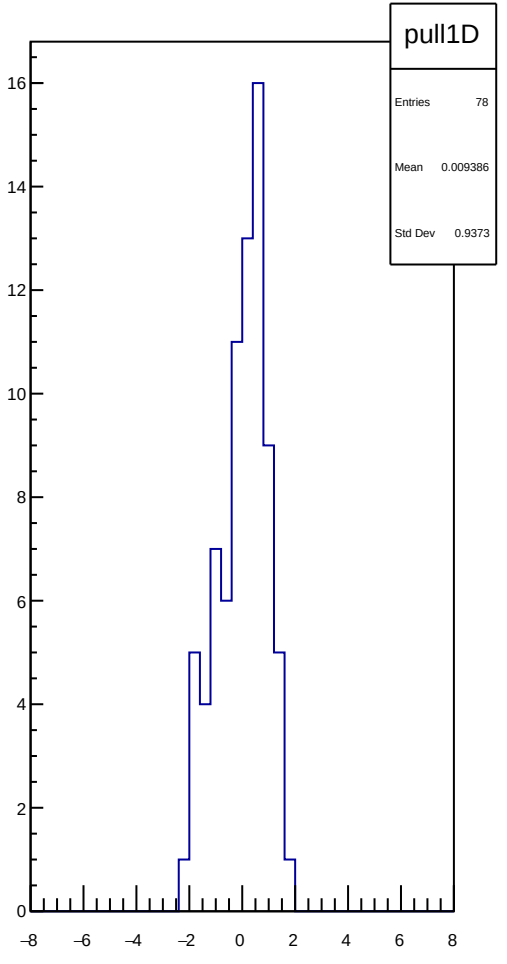

asym_sam1_rms vs run
χ² / ndf 2.614e+04 / 77
p0 527.6 ± 0.425
700
650
600
550
500
450
400

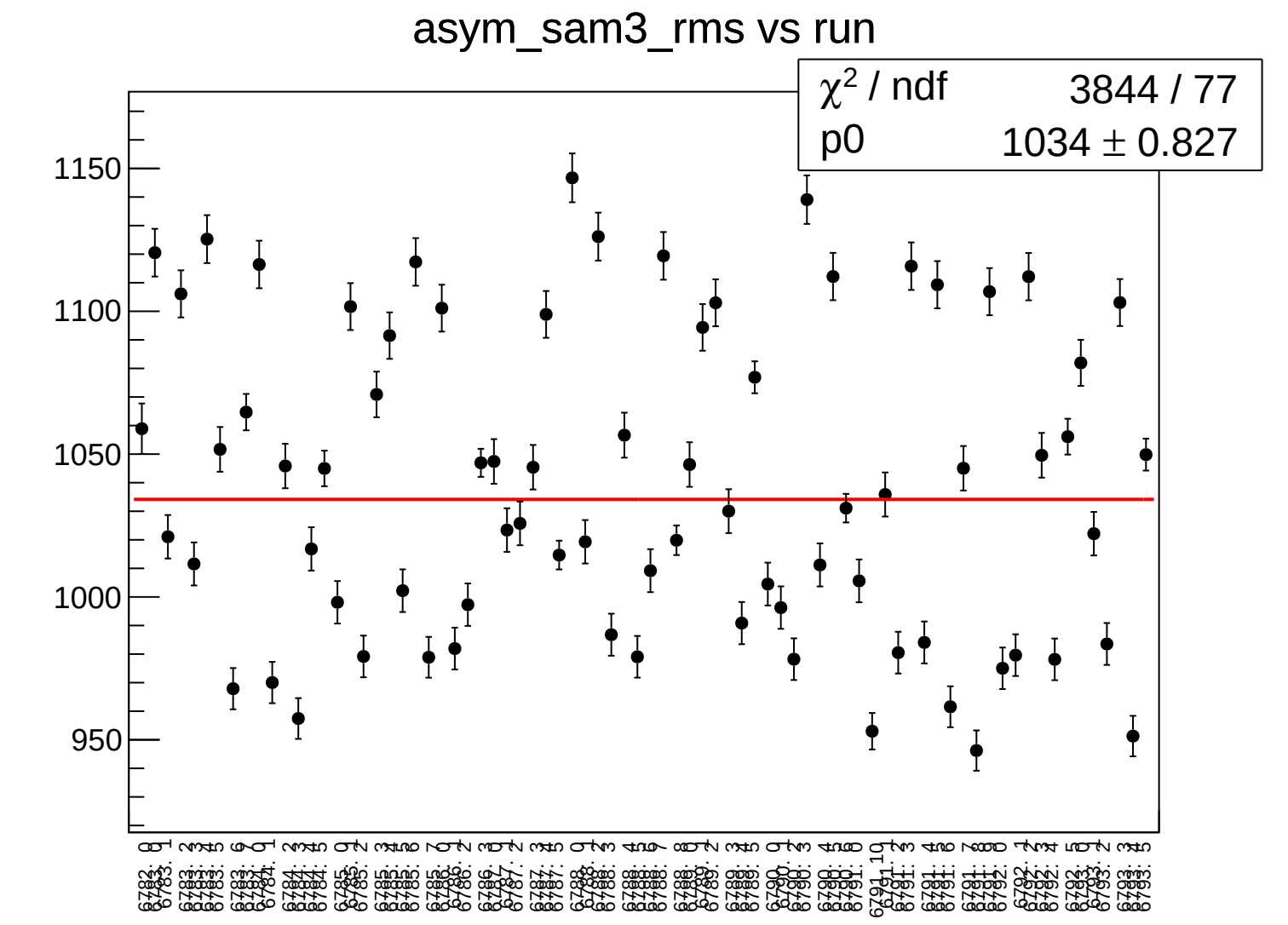

asym_sam2_mean vs run
×10^3
χ² / ndf 69.55 / 77
p0 6089 ± 3053
pull
Entries 78
Mean −221.7
Std Dev 237.3

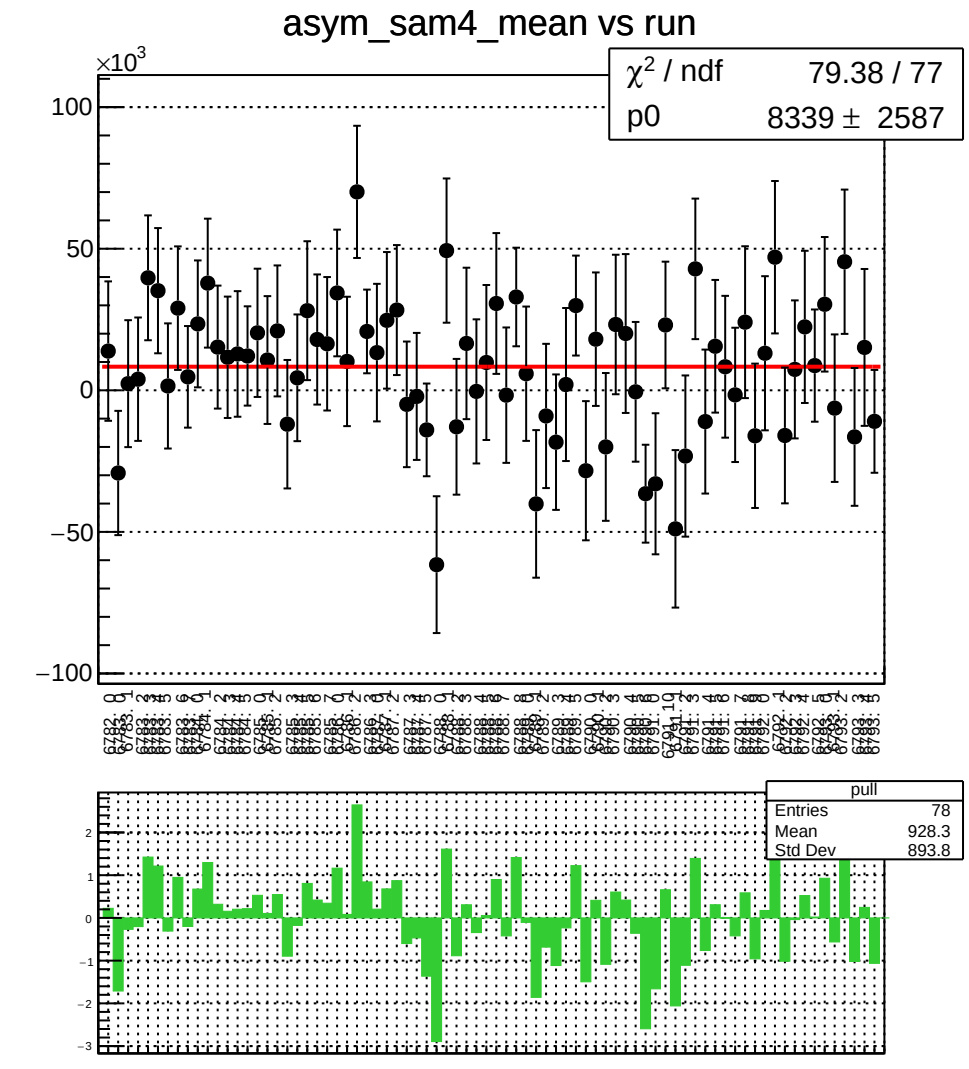

pull1D
Entries 78
Mean 0.004914
Std Dev 0.9443

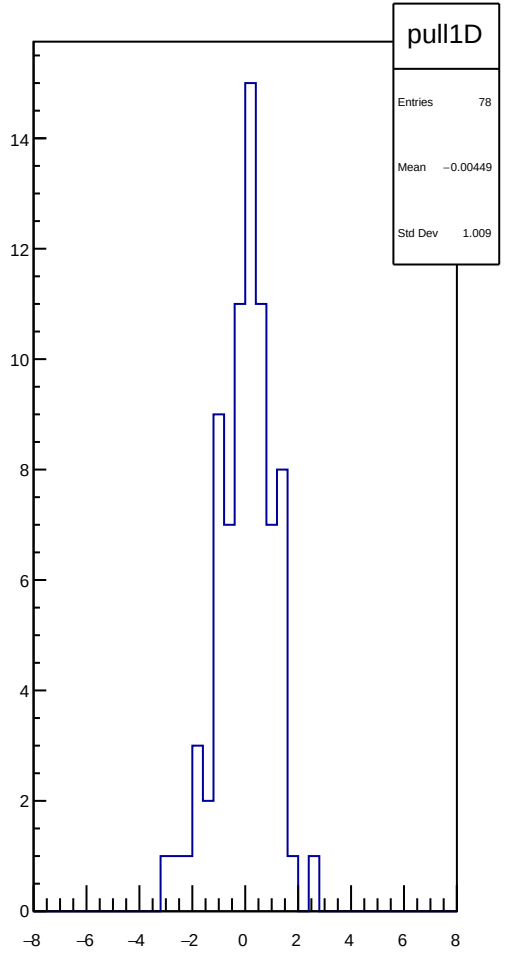

asym_sam2_rms vs run
χ² / ndf 1500 / 77
p0 2702 ± 2.159
2900
2800
2700
2600
2500

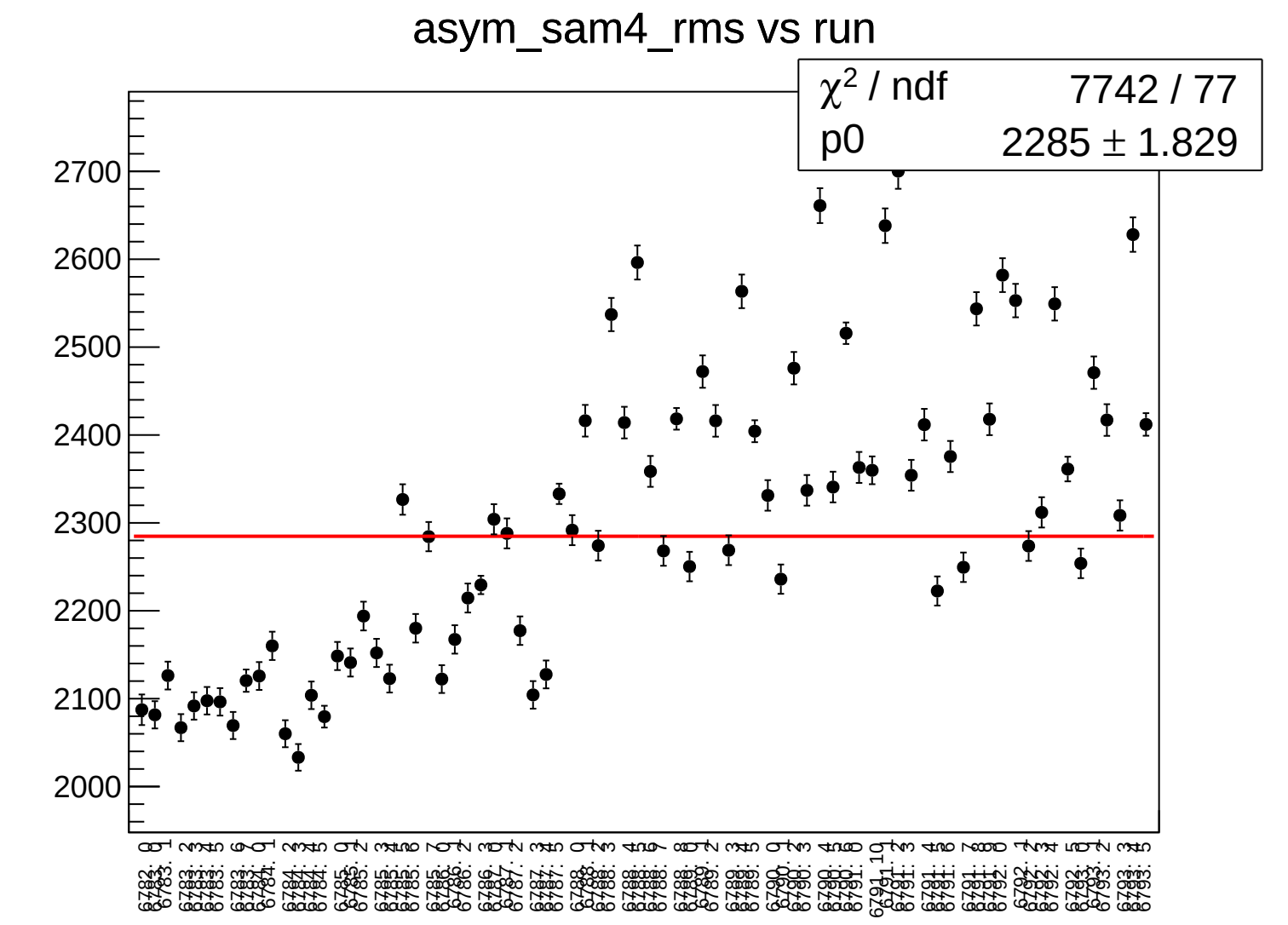

asym_sam3_mean vs run
χ² / ndf 68.54 / 77
p0 4131 ± 1170
pull
Entries 78
Mean −344.4
Std Dev 373.9

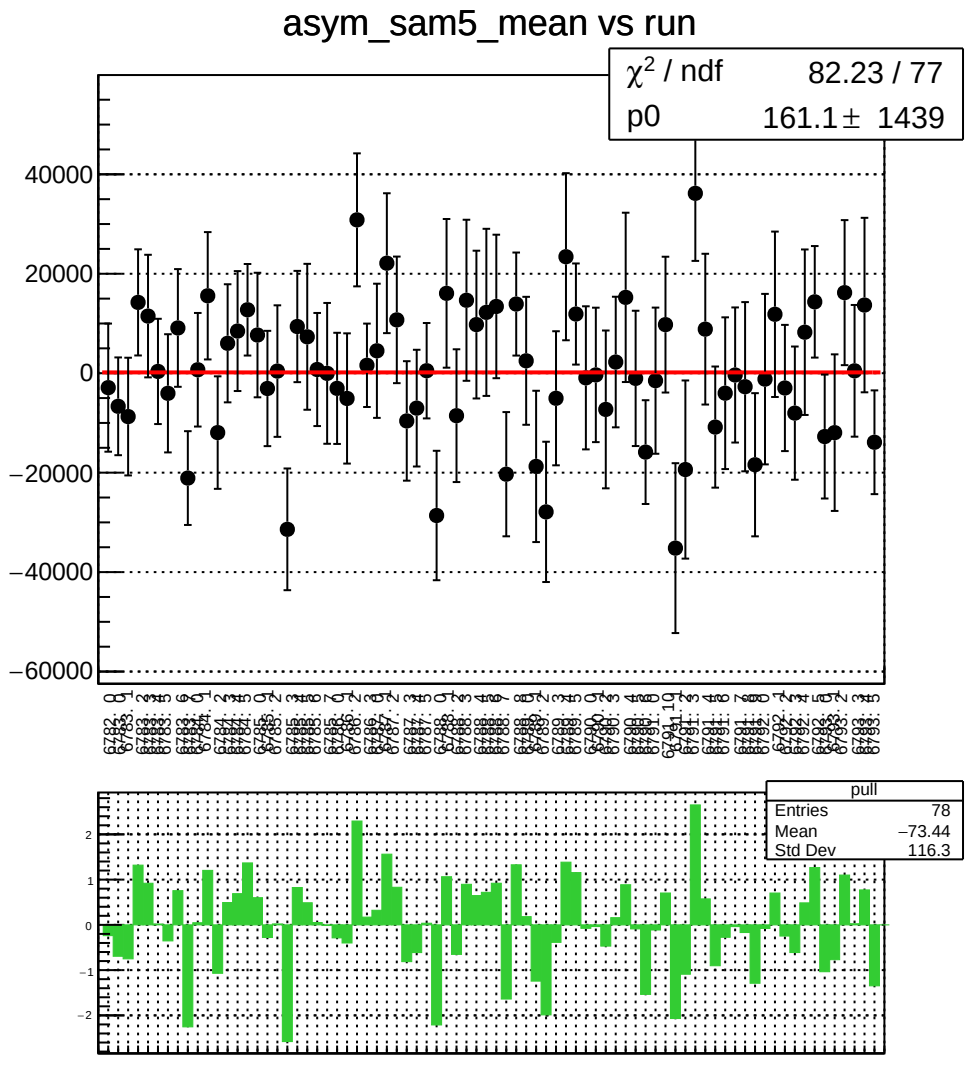

pull1D
Entries 78
Mean 0.009386
Std Dev 0.9373

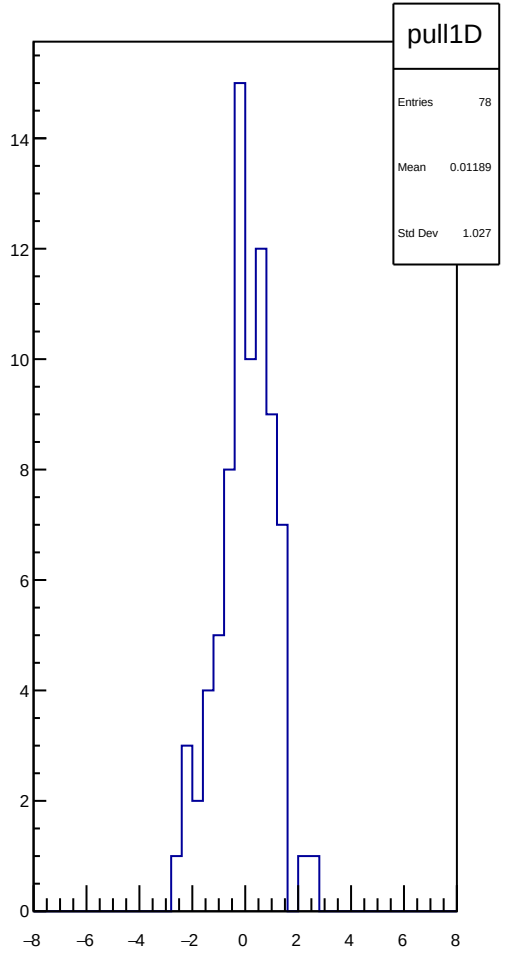

asym_sam3_rms vs run
χ² / ndf 3844 / 77
p0 1034 ± 0.827
1150
1100
1050
1000
950

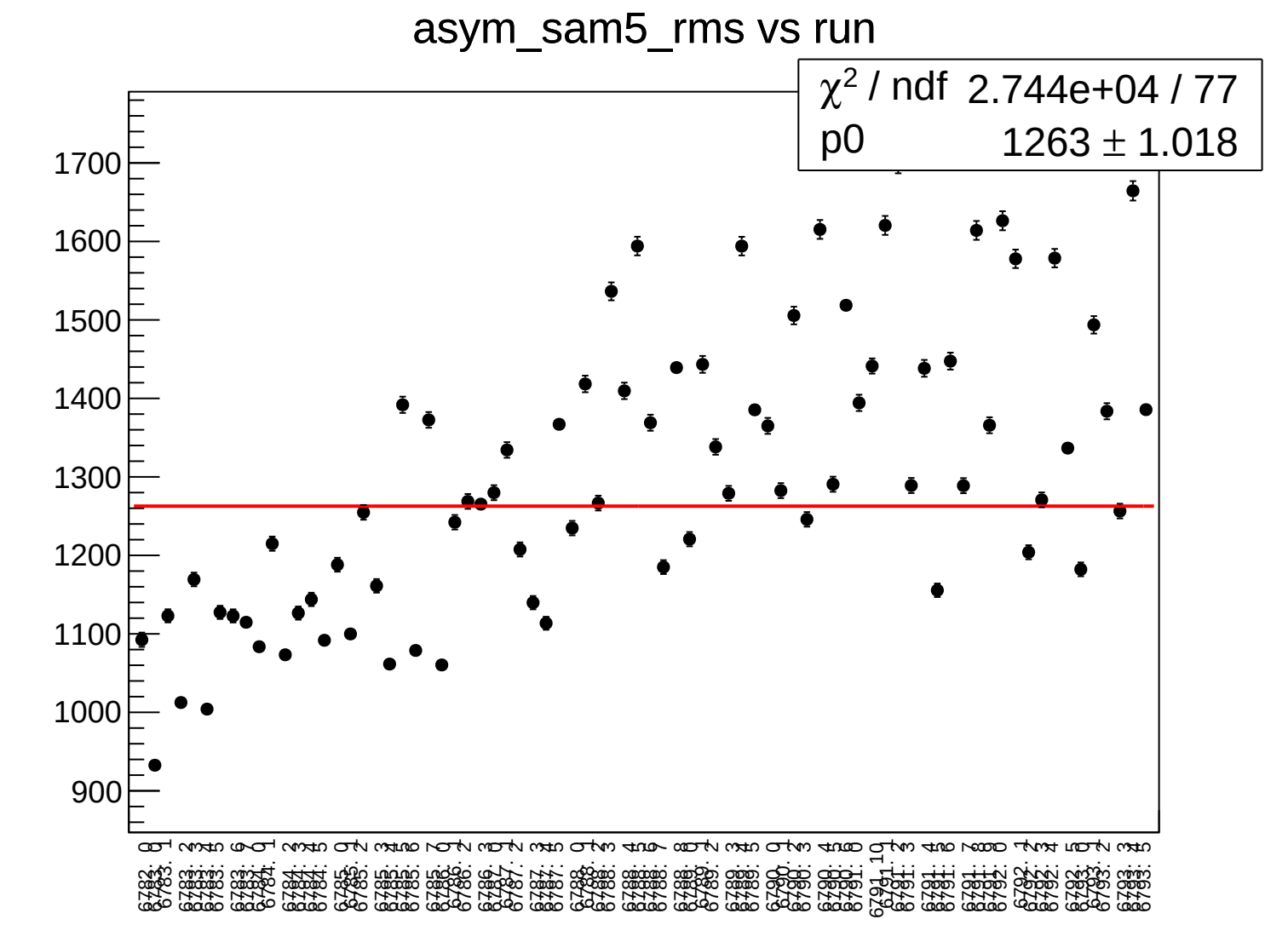

asym_sam4_mean vs run
×10^3
χ^2 / ndf 79.38 / 77
p0 8339 ± 2587
100
50
0
−50
−100
pull
Entries 78
Mean 928.3
Std Dev 893.8
2
1
0
−1
−2
−3

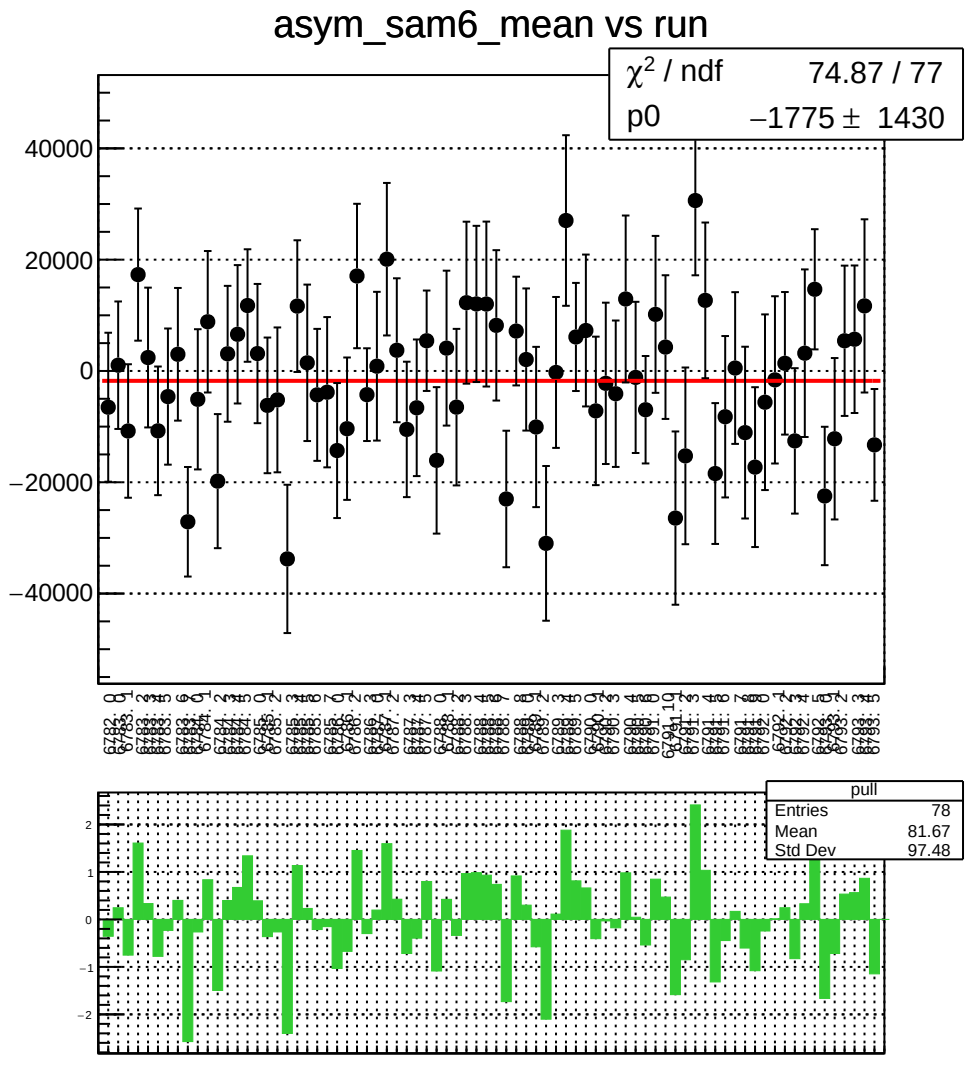

pull1D
Entries 78
Mean −0.00449
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

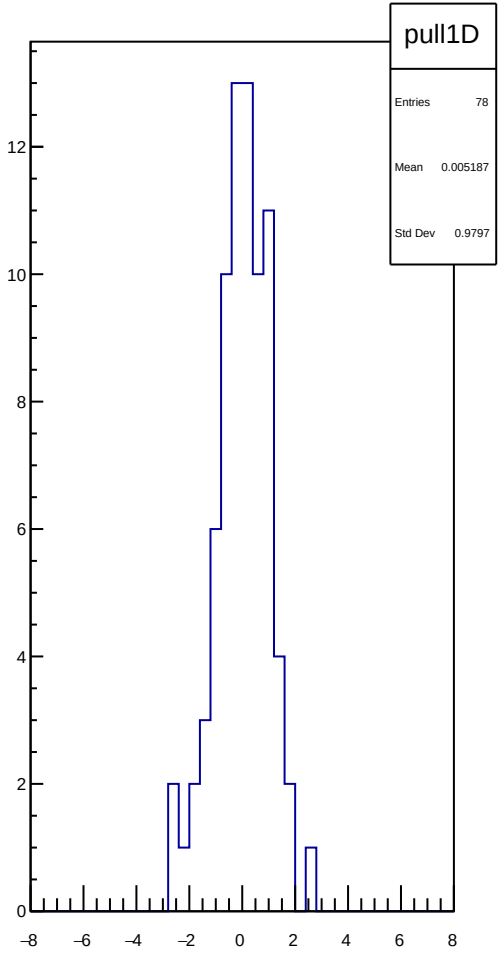

asym_sam4_rms vs run
χ² / ndf 7742 / 77
p0 2285 ± 1.829
2700
2600
2500
2400
2300
2200
2100
2000

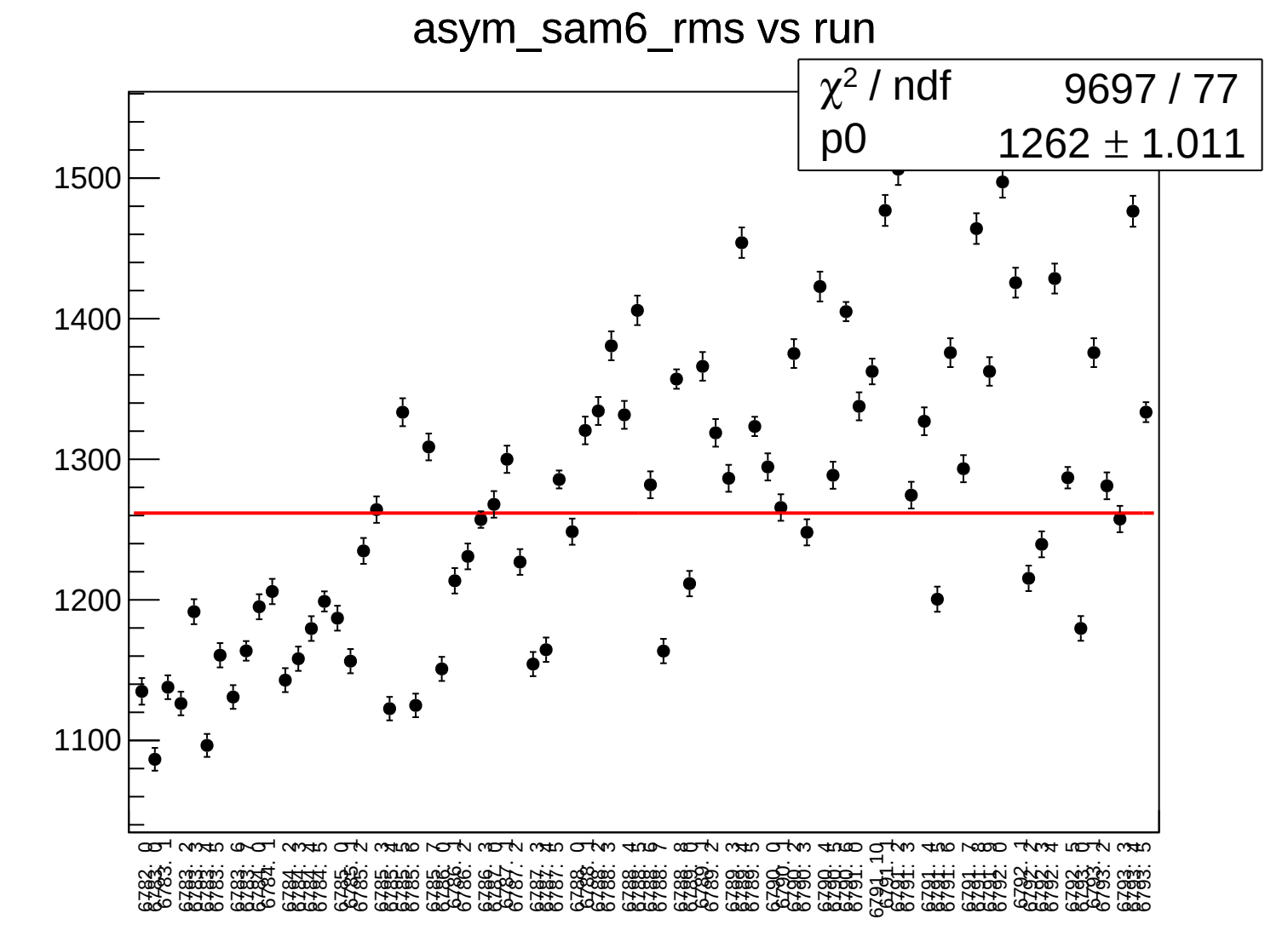

asym_sam5_mean vs run
χ² / ndf 82.23 / 77
p0 161.1 ± 1439
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean −73.44
Std Dev 116.3
2
1
0
−1
−2

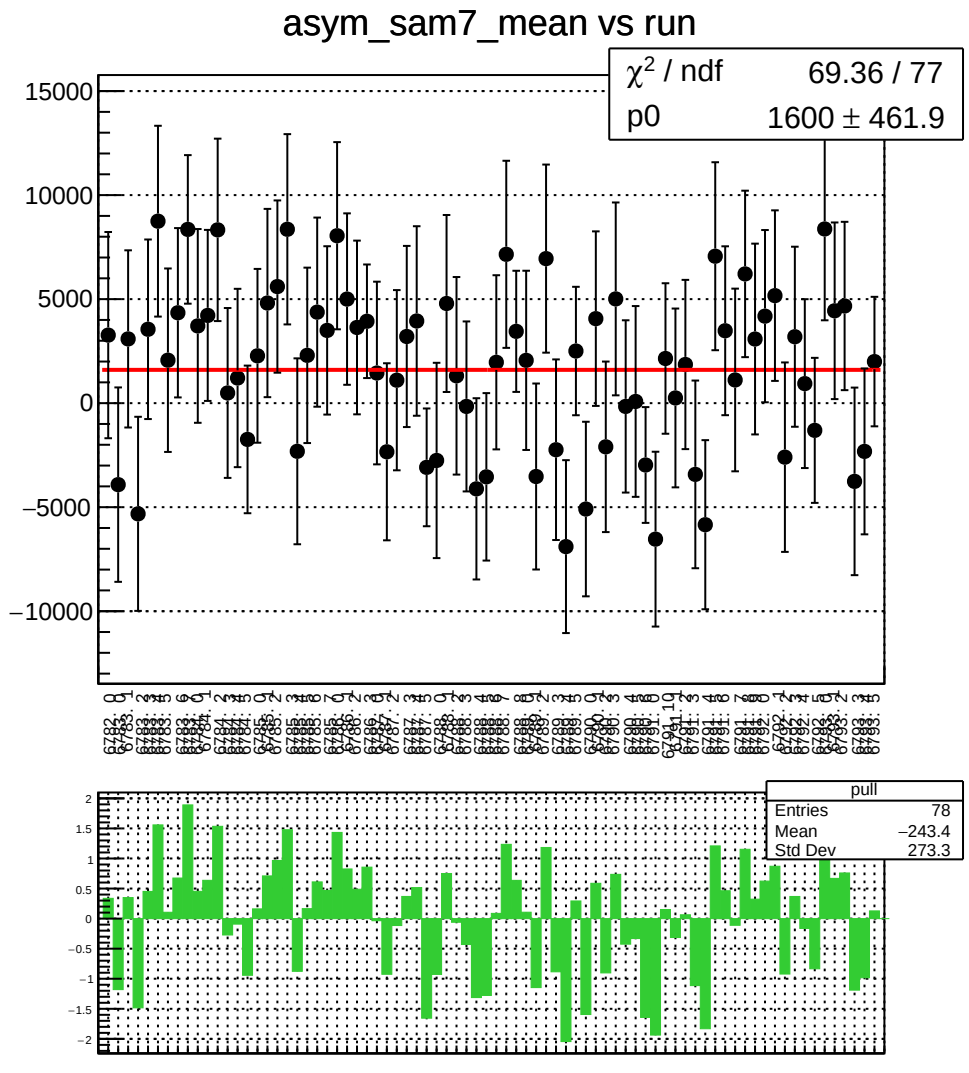

pull1D
Entries 78
Mean 0.01189
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

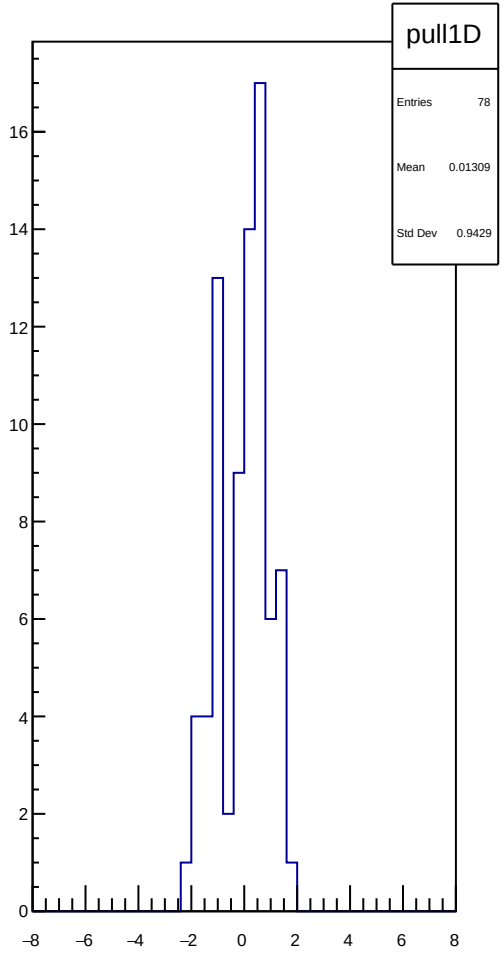

asym_sam5_rms vs run
χ² / ndf 2.744e+04 / 77
p0 1263 ± 1.018
1700
1600
1500
1400
1300
1200
1100
1000
900

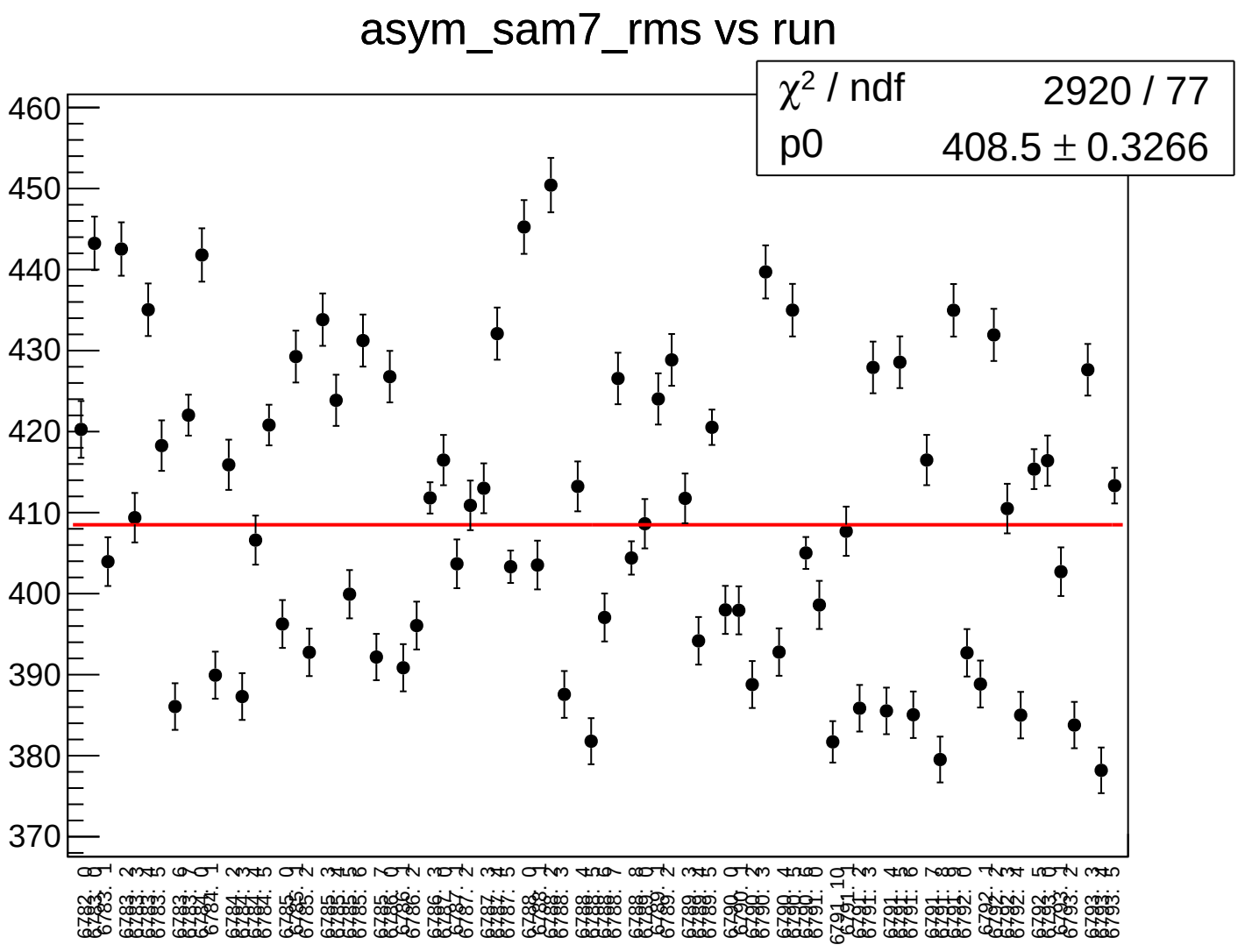

asym_sam6_mean vs run
χ² / ndf 74.87 / 77
p0 −1775 ± 1430
40000
20000
0
−20000
−40000
pull
Entries 78
Mean 81.67
Std Dev 97.48
2
1
0
−1
−2

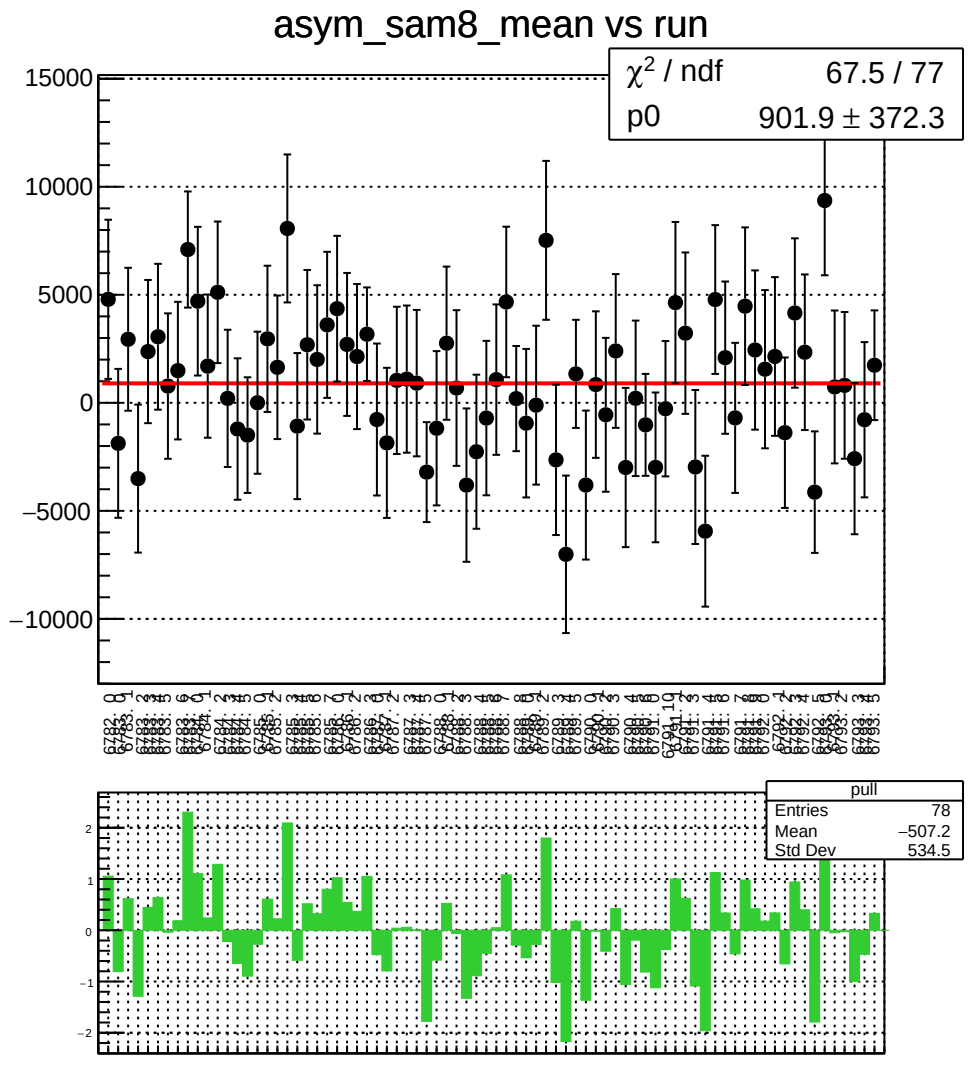

pull1D
Entries 78
Mean 0.005187
Std Dev 0.9797
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

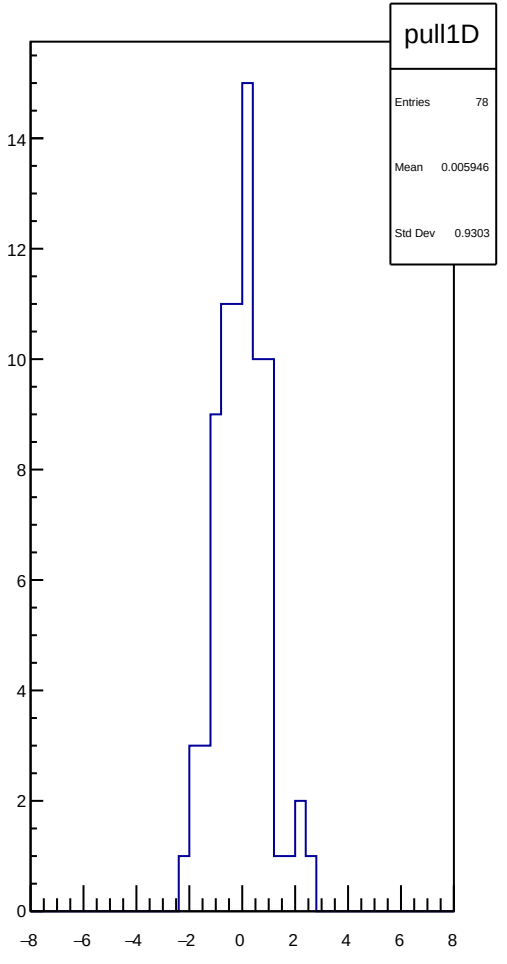

asym_sam6_rms vs run
χ^2 / ndf 9697 / 77
p0 1262 ± 1.011
1500
1400
1300
1200
1100

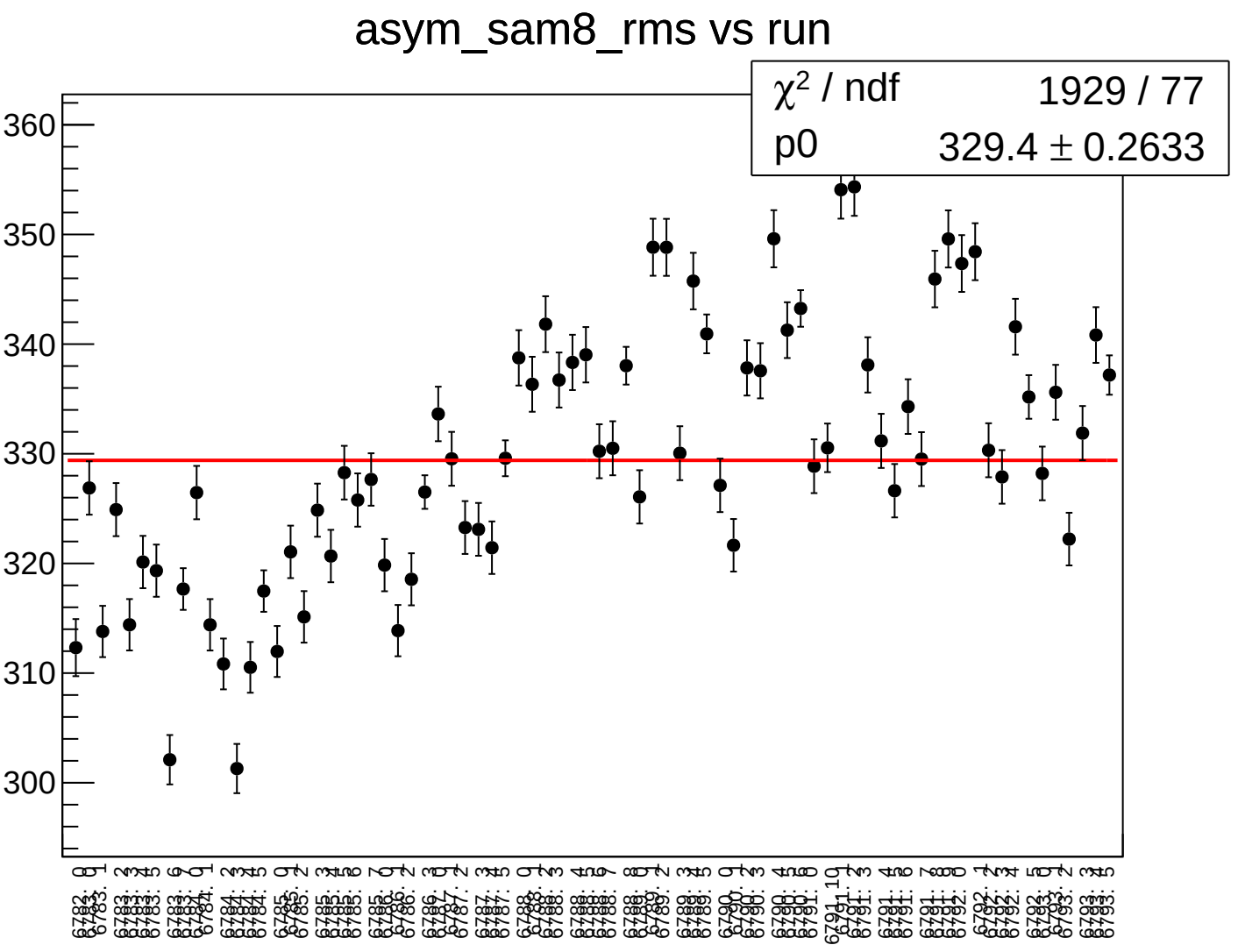

asym_sam7_mean vs run
χ² / ndf 69.36 / 77
p0 1600 ± 461.9
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −243.4
Std Dev 273.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

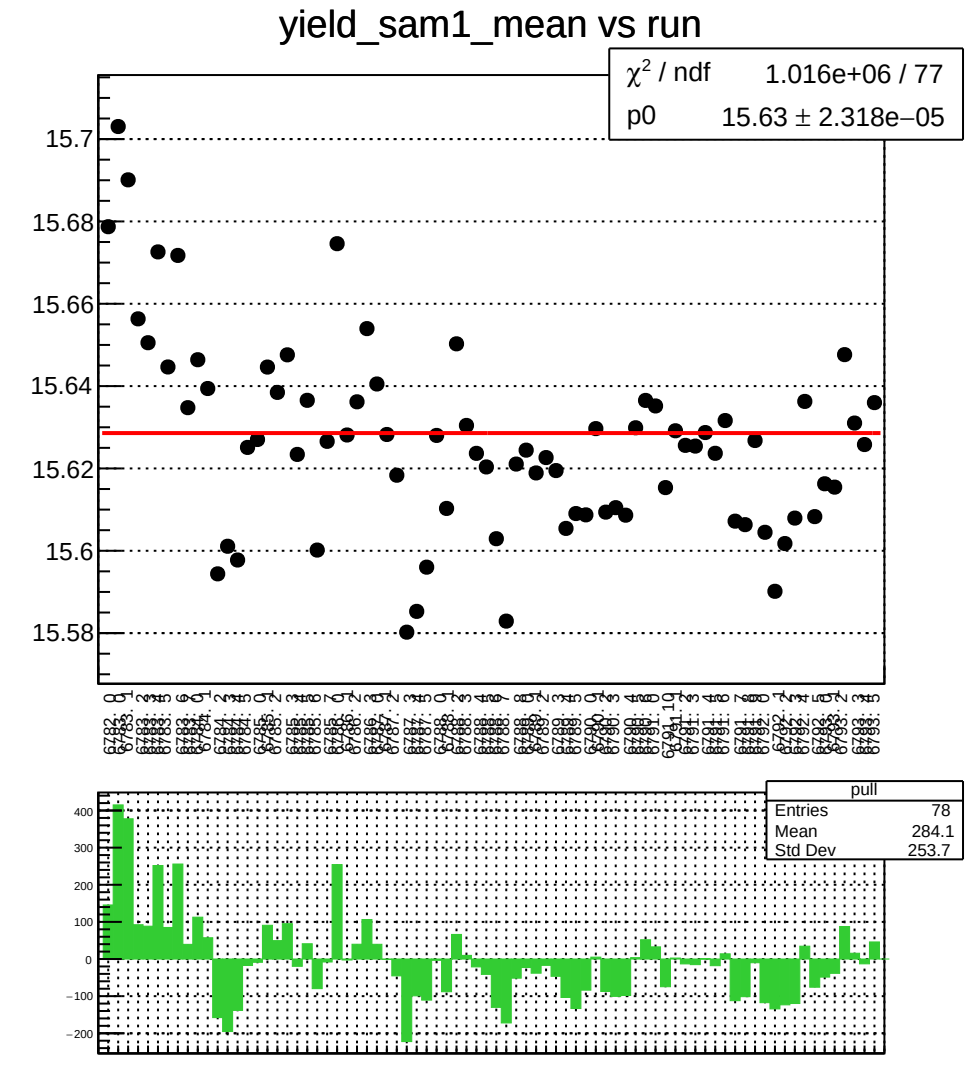

pull1D
Entries 78
Mean 0.01309
Std Dev 0.9429
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

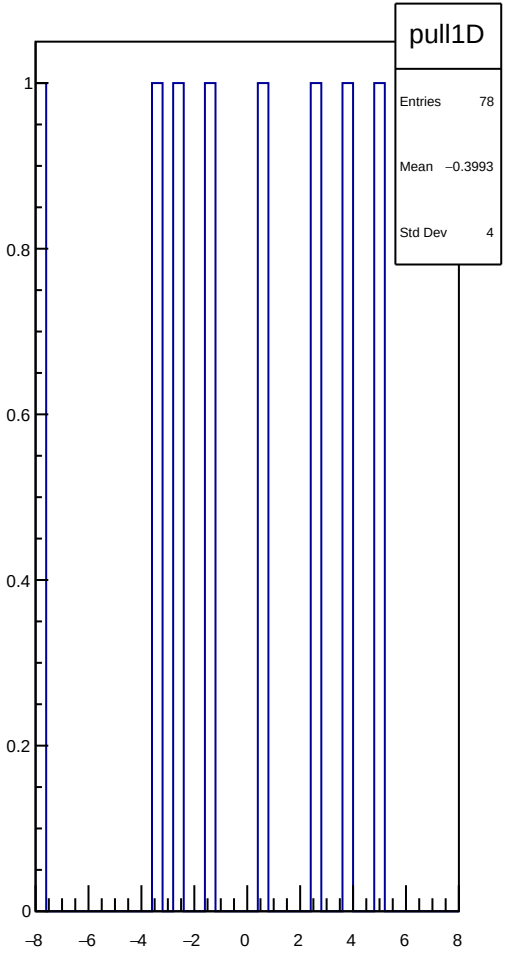

asym_sam7_rms vs run
χ² / ndf 2920 / 77
p0 408.5 ± 0.3266
460
450
440
430
420
410
400
390
380
370

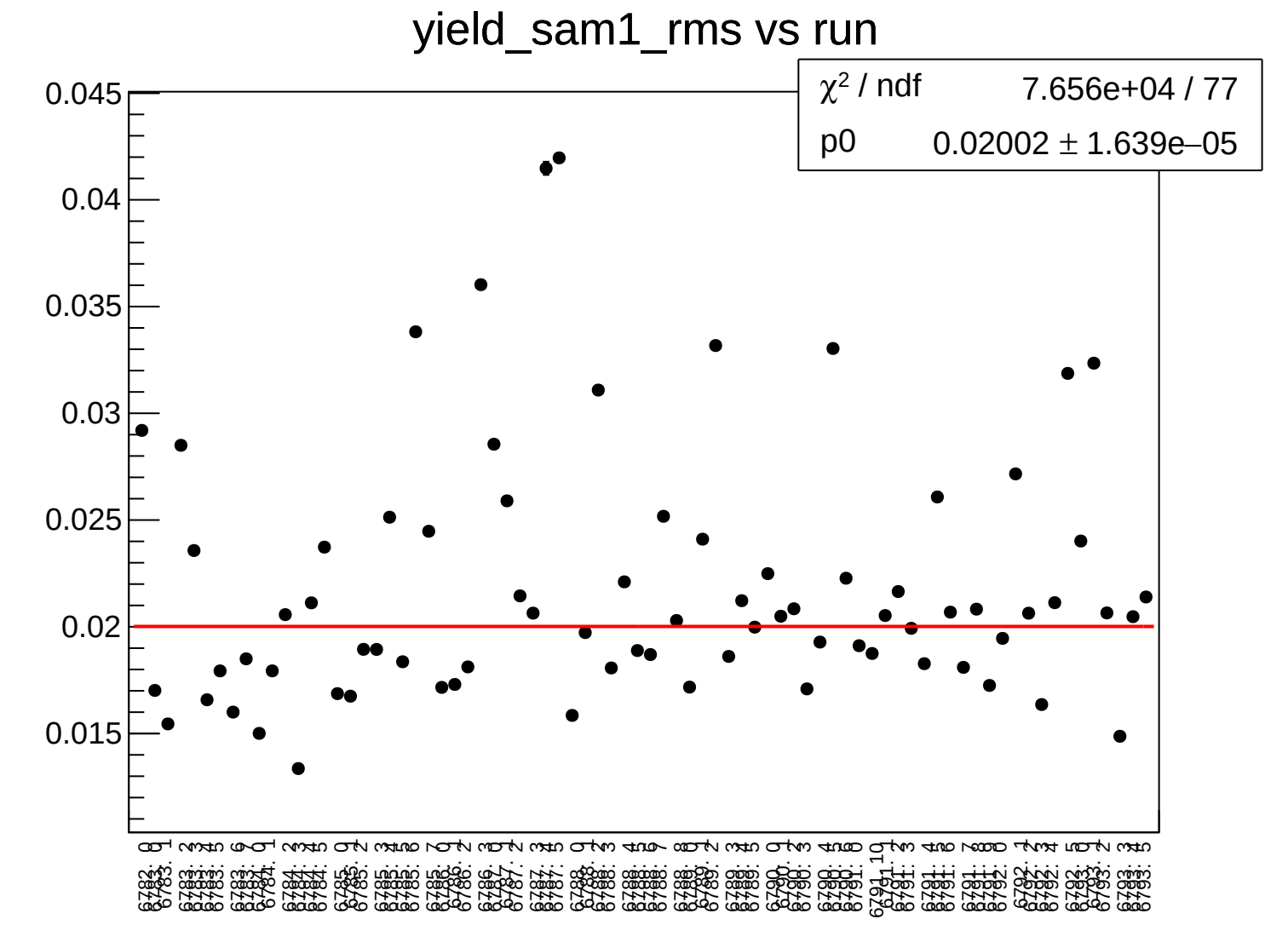

asym_sam8_mean vs run
χ^2 / ndf 67.5 / 77
p0 901.9 ± 372.3
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −507.2
Std Dev 534.5
2
1
0
−1
−2

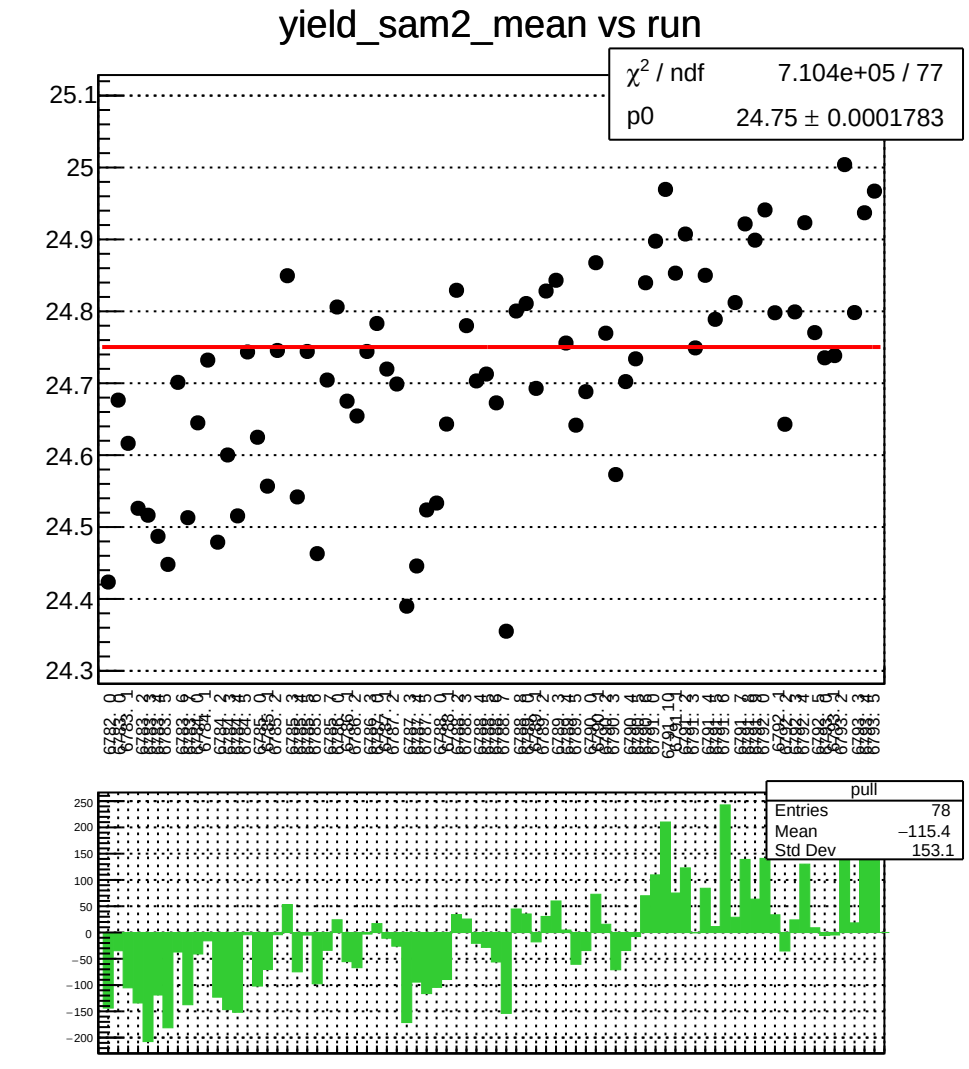

pull1D
Entries 78
Mean 0.005946
Std Dev 0.9303
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

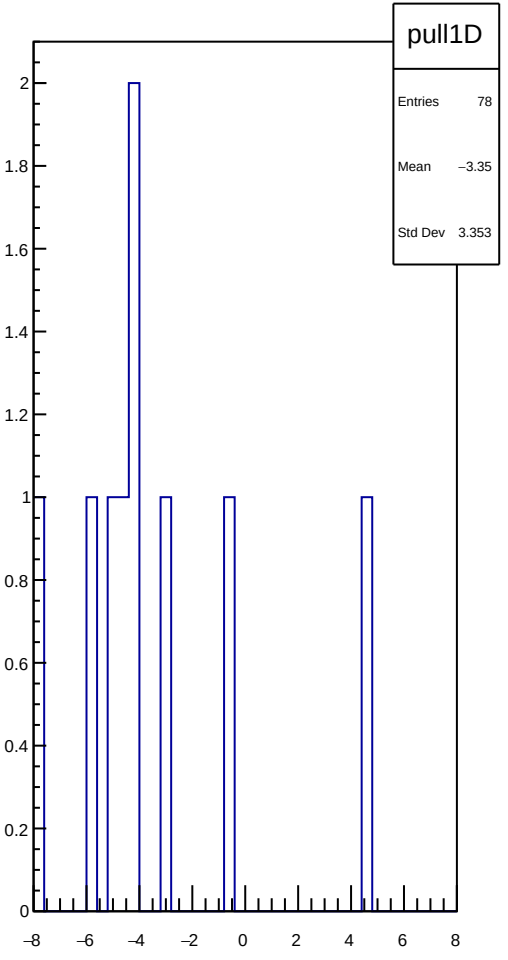

asym_sam8_rms vs run
χ^2 / ndf 1929 / 77
p0 329.4 ± 0.2633
360
350
340
330
320
310
300

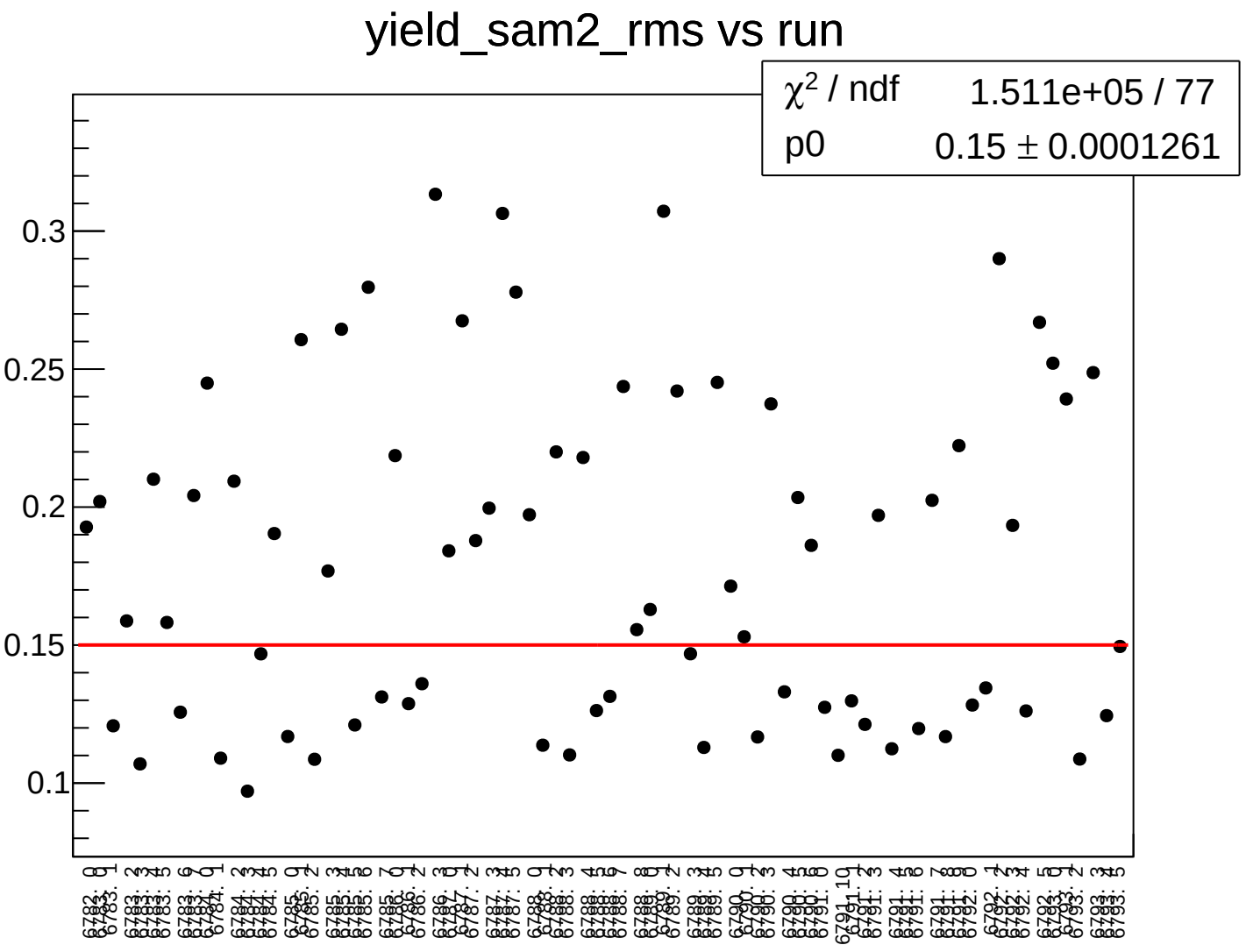

yield_sam1_mean vs run
χ² / ndf 1.016e+06 / 77
p0 15.63 ± 2.318e−05
15.7
15.68
15.66
15.64
15.62
15.6
15.58
pull
Entries 78
Mean 284.1
Std Dev 253.7
400
300
200
100
0
−100
−200

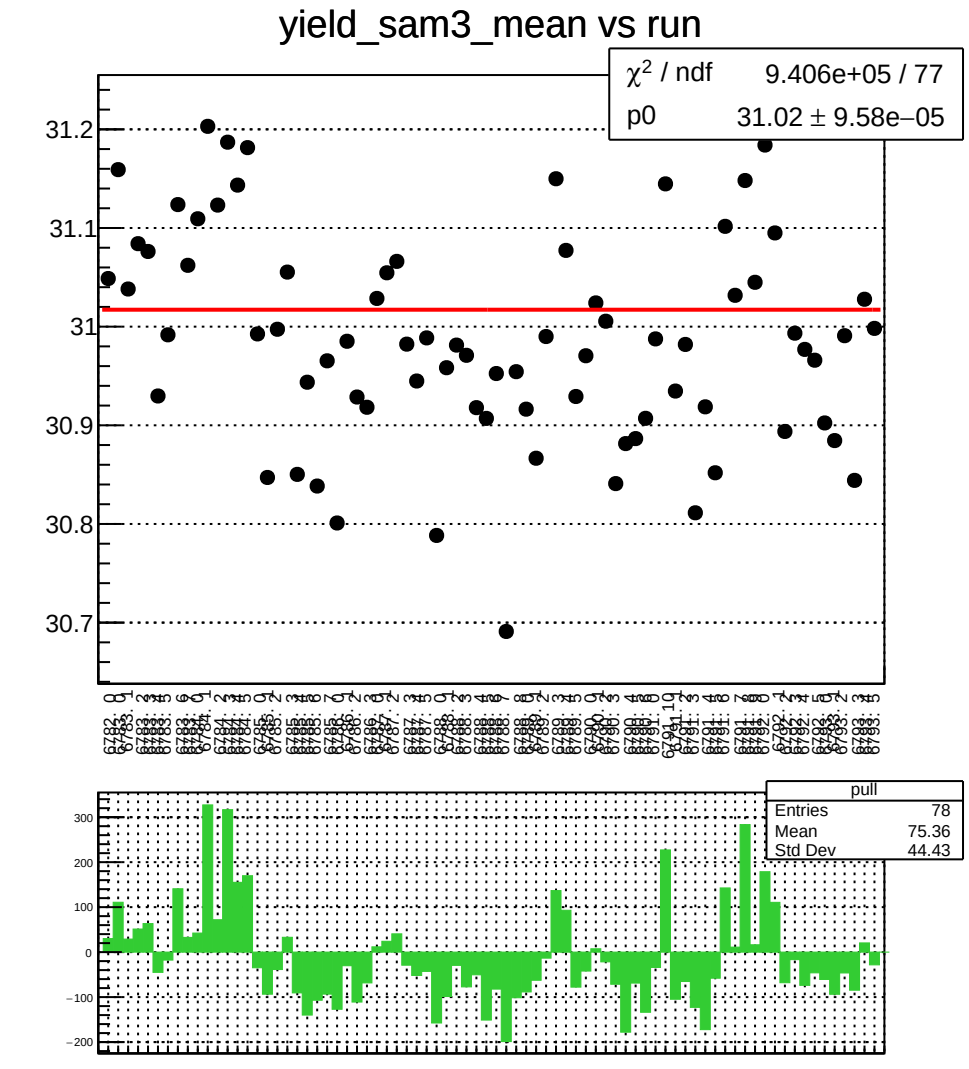

pull1D
Entries 78
Mean −0.3993
Std Dev 4
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

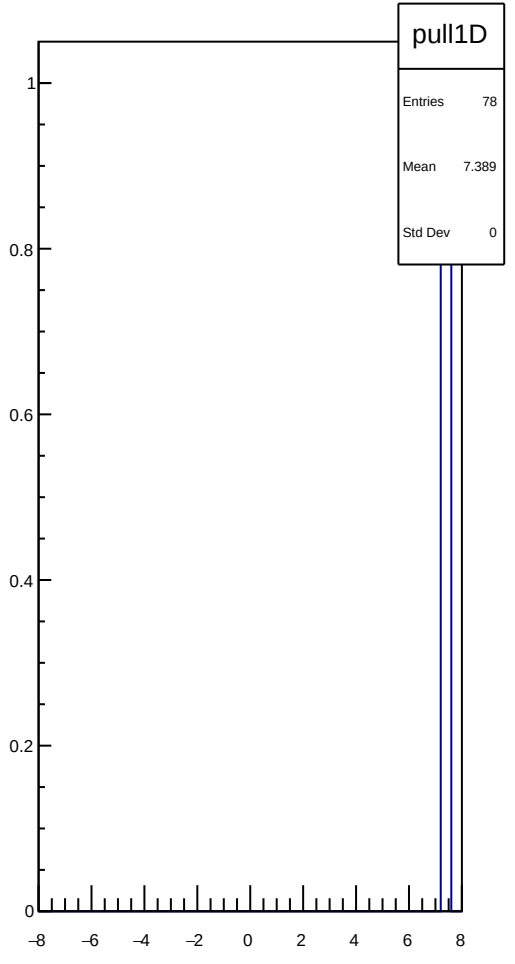

yield_sam1_rms vs run
χ² / ndf 7.656e+04 / 77
p0 0.02002 ± 1.639e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

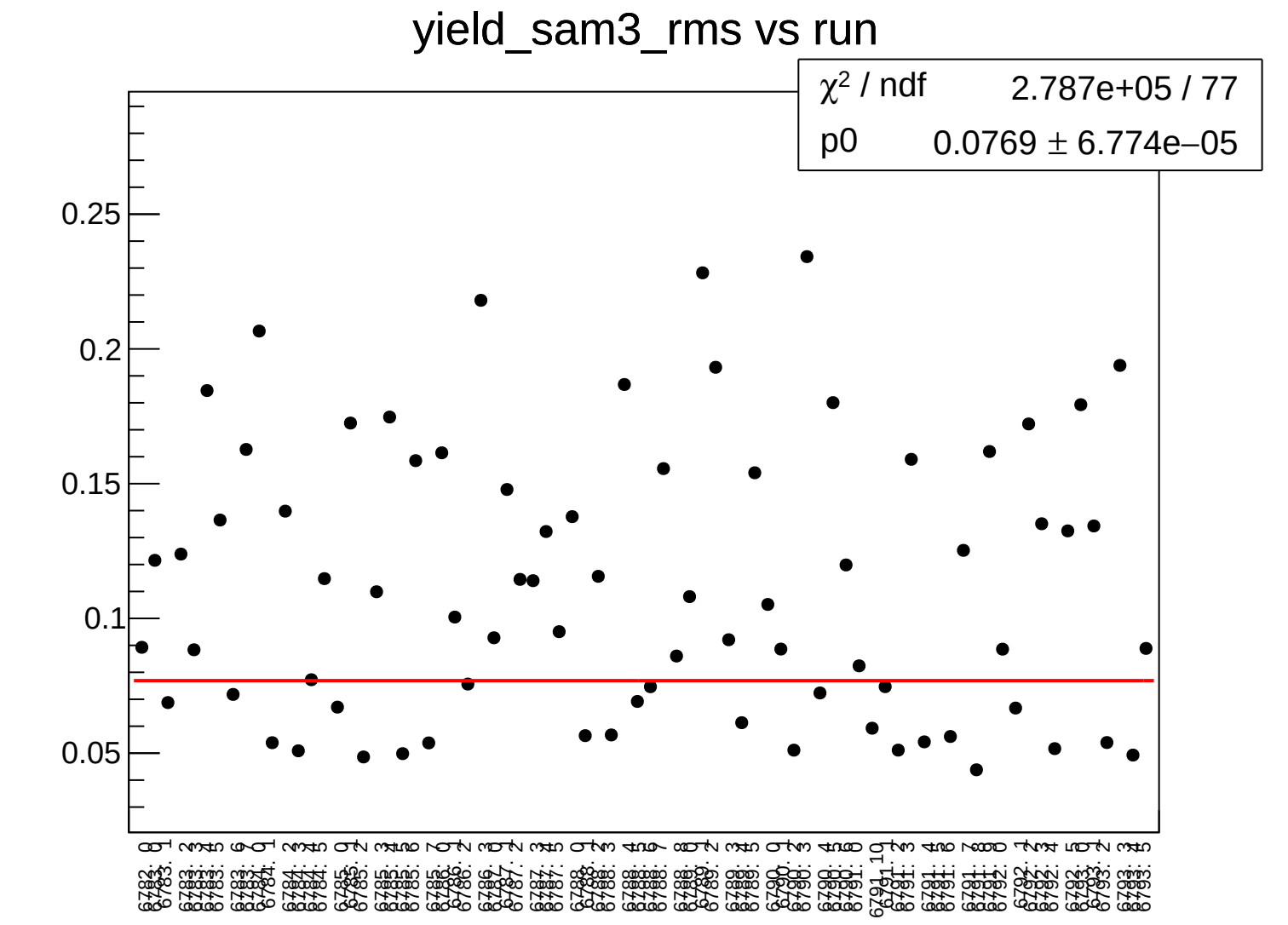

yield_sam2_mean vs run
χ² / ndf 7.104e+05 / 77
p0 24.75 ± 0.0001783
pull
Entries 78
Mean −115.4
Std Dev 153.1

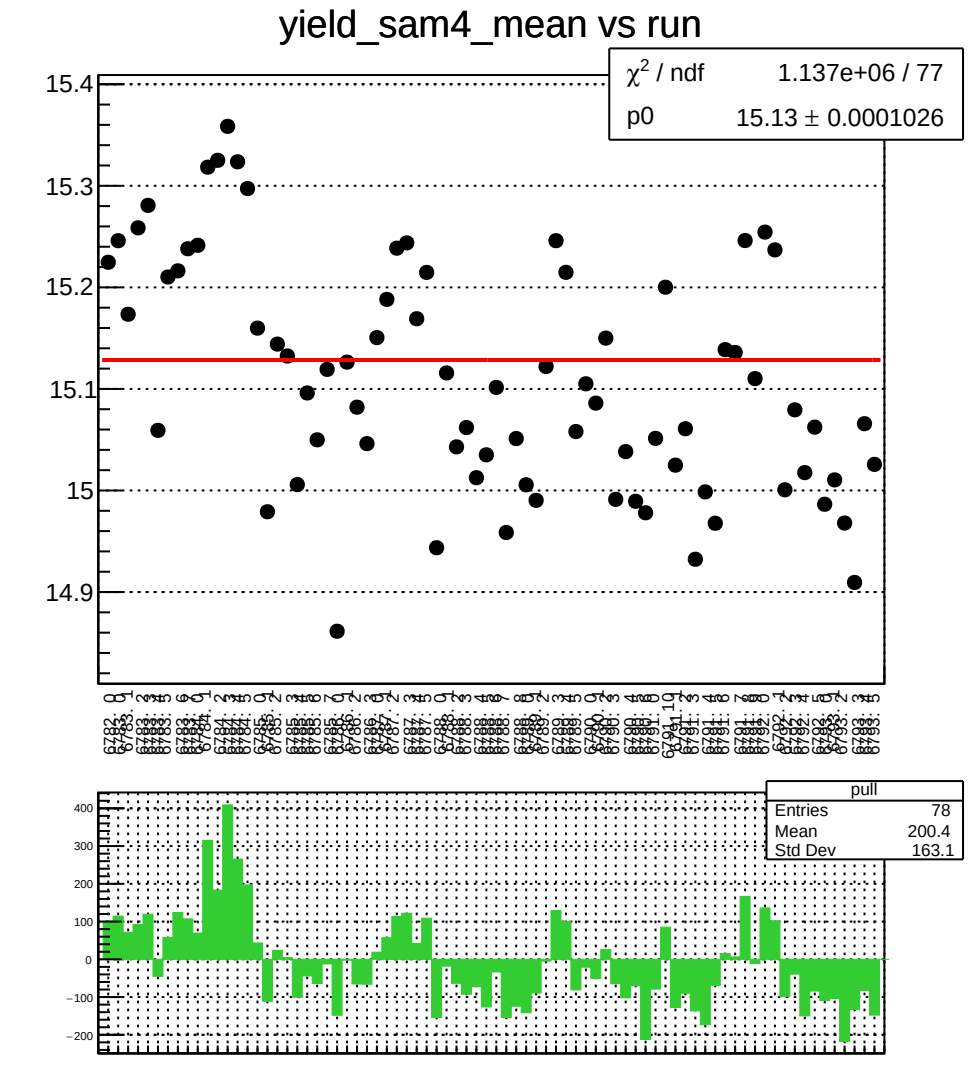

pull1D
Entries 78
Mean −3.35
Std Dev 3.353

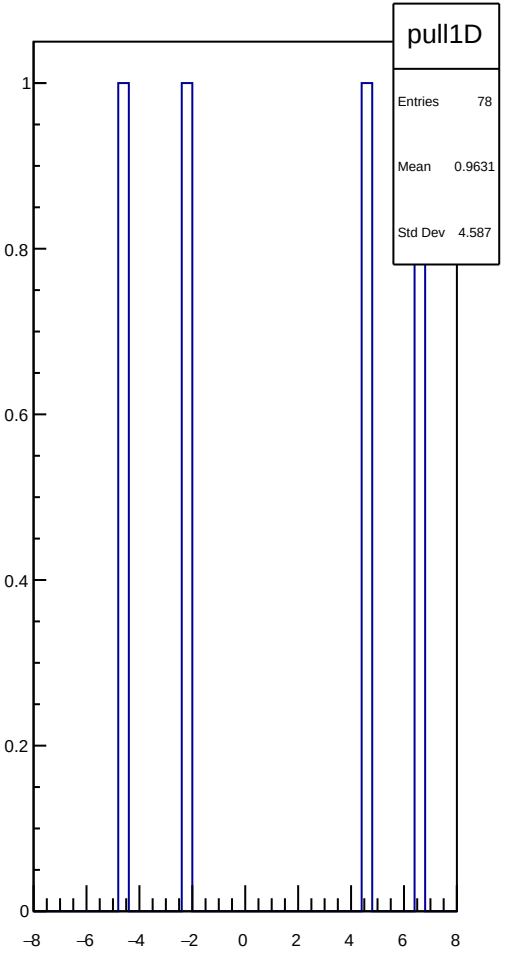

yield_sam2_rms vs run
χ^2 / ndf 1.511e+05 / 77
p0 0.15 ± 0.0001261
0.3
0.25
0.2
0.15
0.1

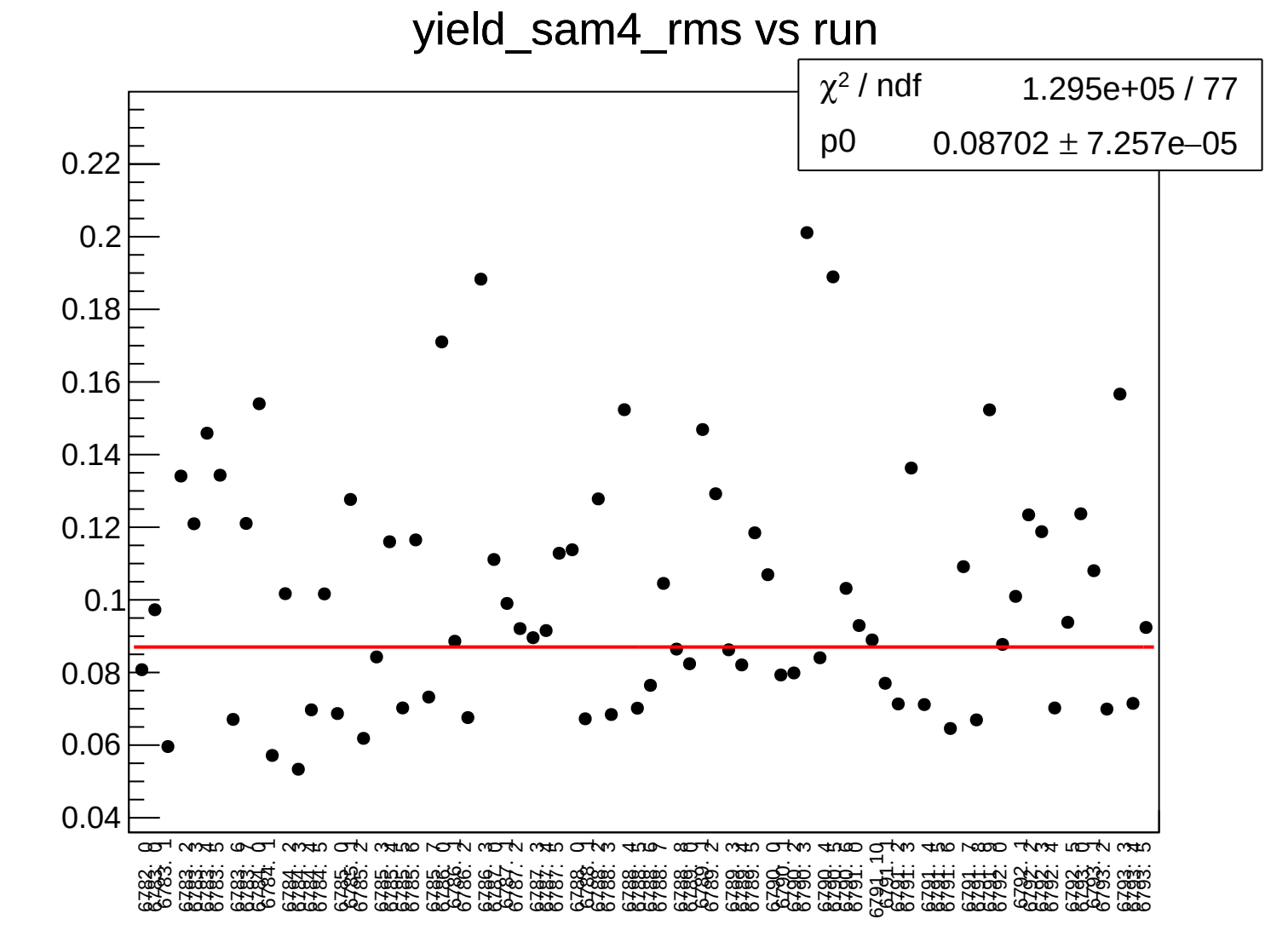

yield_sam3_mean vs run
χ² / ndf 9.406e+05 / 77
p0 31.02 ± 9.58e−05
31.2
31.1
31
30.9
30.8
30.7
pull
Entries 78
Mean 75.36
Std Dev 44.43
300
200
100
0
−100
−200

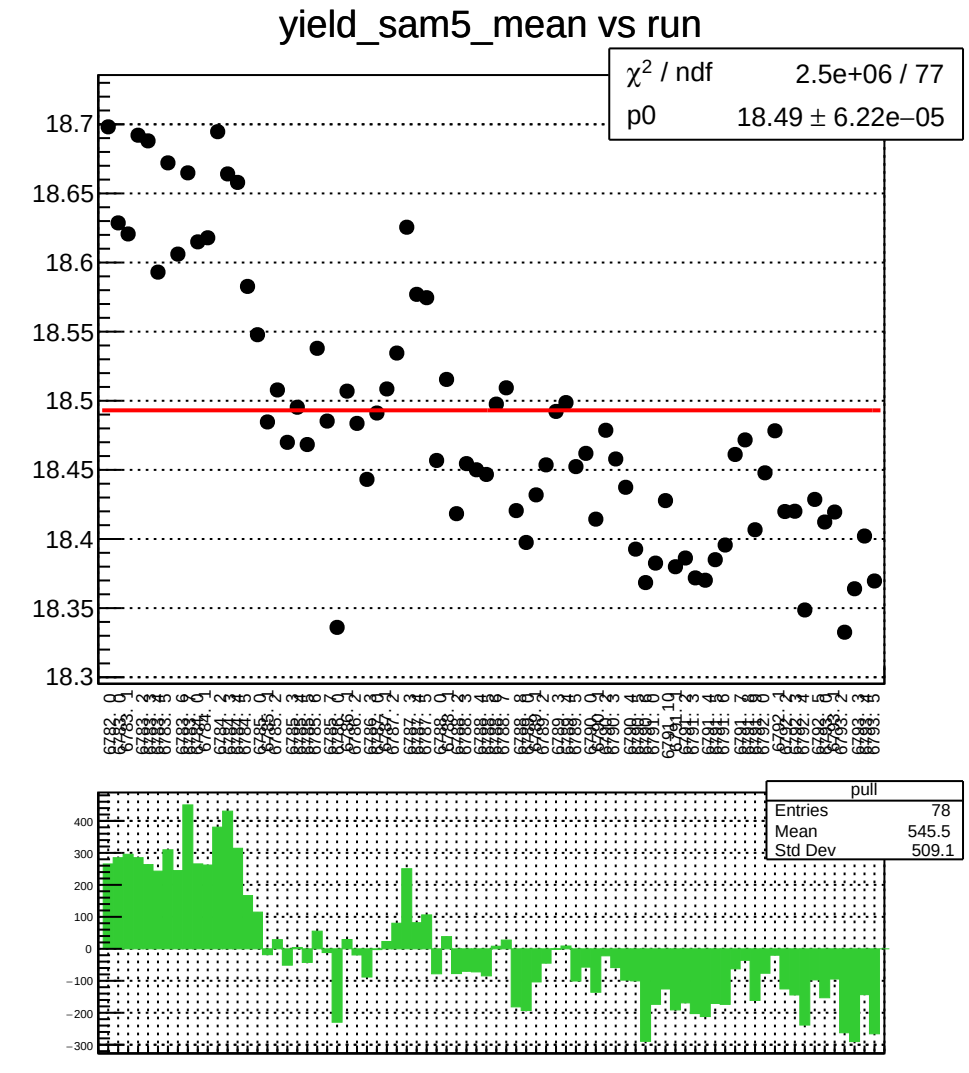

pull1D
Entries 78
Mean 7.389
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

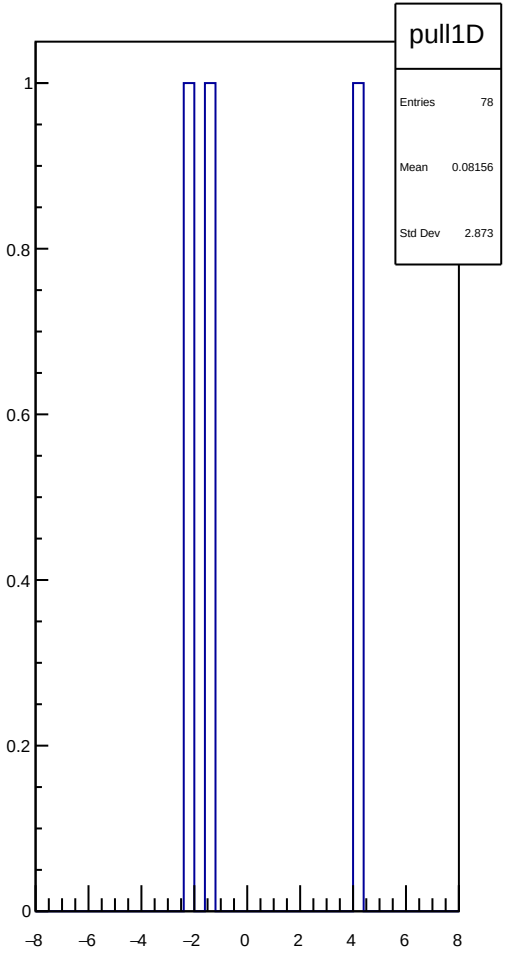

yield_sam3_rms vs run
χ² / ndf 2.787e+05 / 77
p0 0.0769 ± 6.774e−05
0.25
0.2
0.15
0.1
0.05

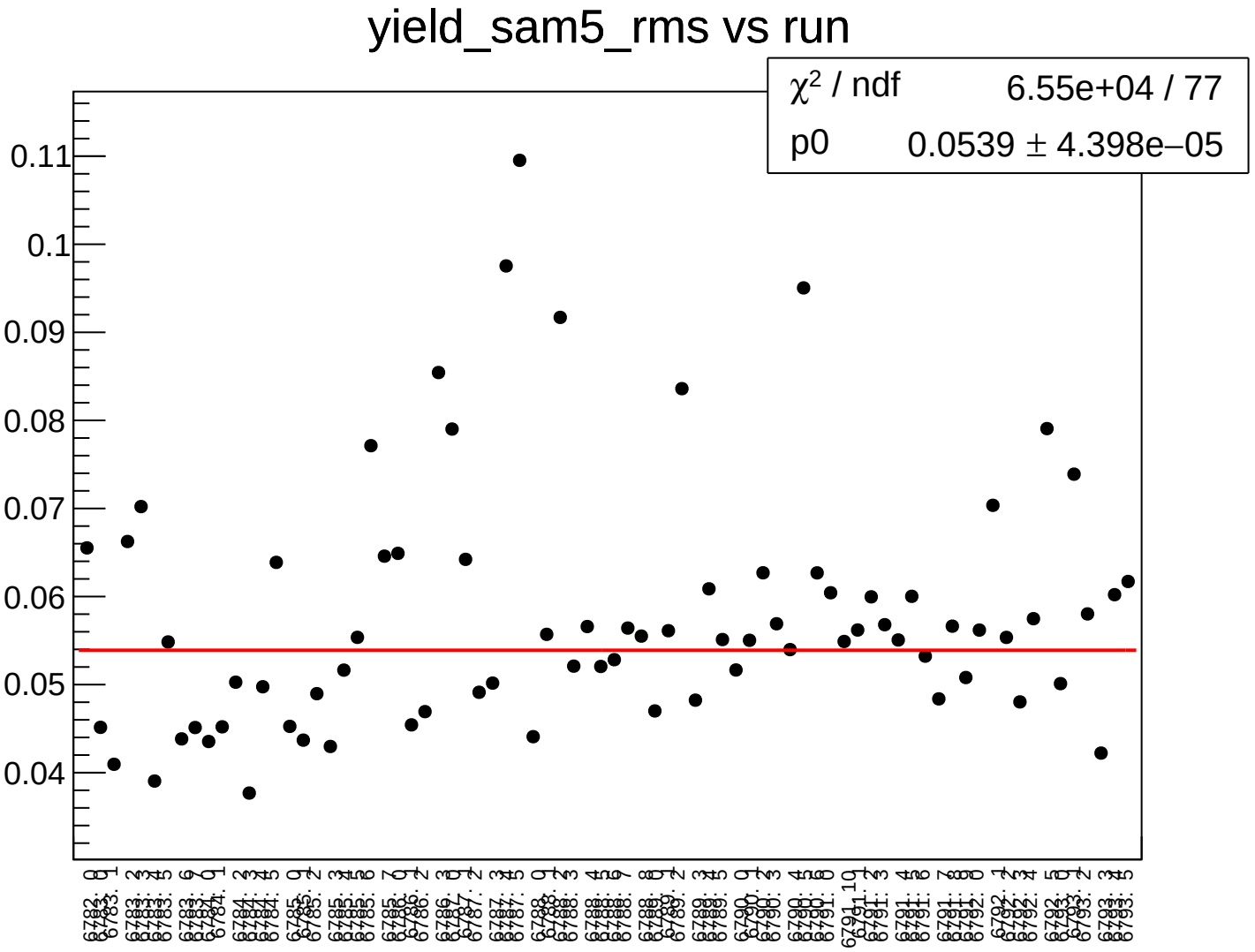

yield_sam4_mean vs run
χ² / ndf 1.137e+06 / 77
p0 15.13 ± 0.0001026
15.4
15.3
15.2
15.1
15
14.9
pull
Entries 78
Mean 200.4
Std Dev 163.1
400
300
200
100
0
−100
−200

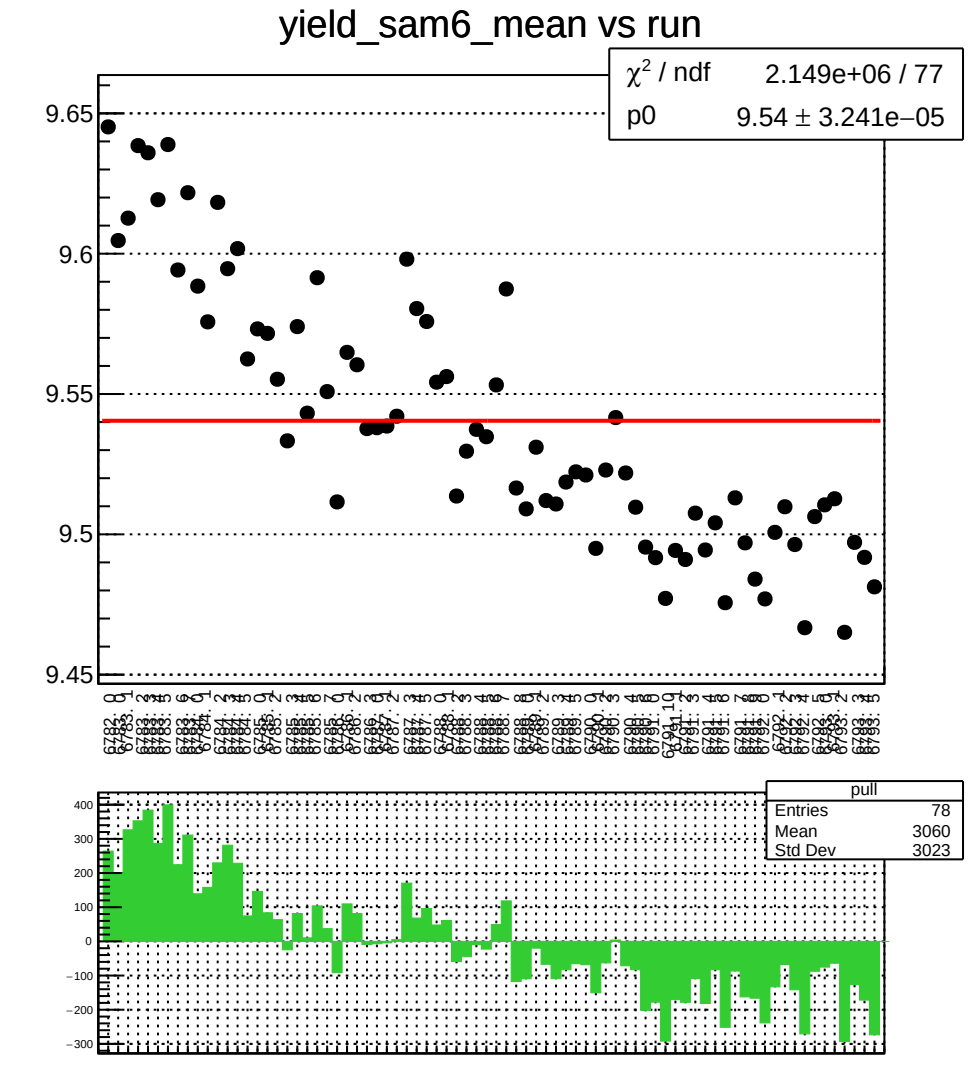

pull1D
Entries 78
Mean 0.9631
Std Dev 4.587
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

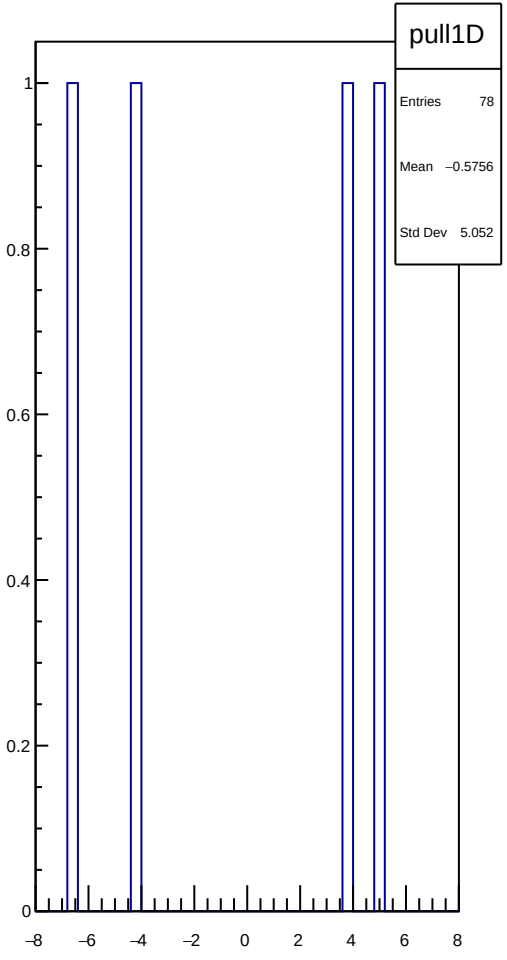

yield_sam4_rms vs run
χ² / ndf 1.295e+05 / 77
p0 0.08702 ± 7.257e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

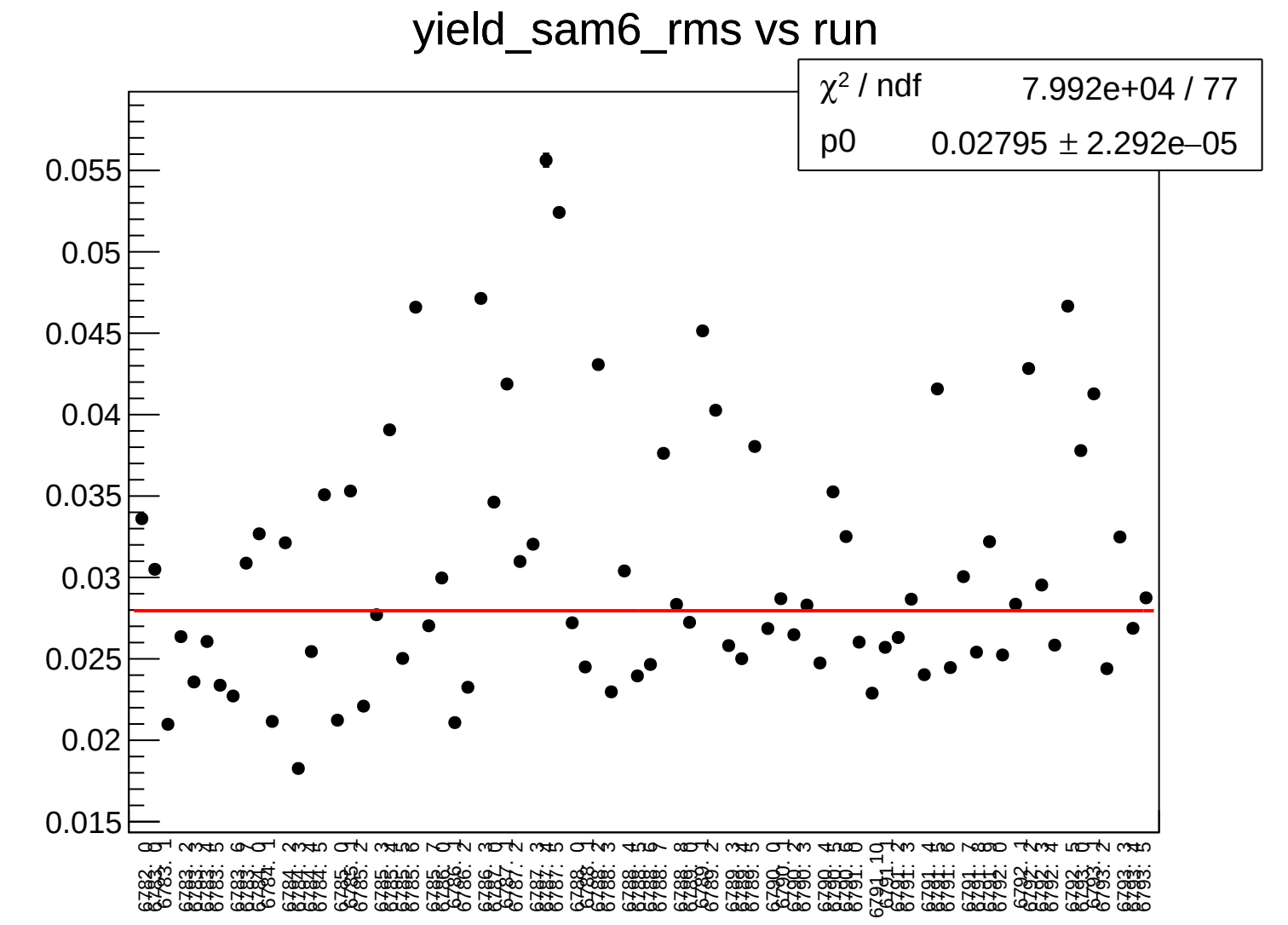

yield_sam5_mean vs run
χ² / ndf 2.5e+06 / 77
p0 18.49 ± 6.22e−05
18.7
18.65
18.6
18.55
18.5
18.45
18.4
18.35
18.3
pull
Entries 78
Mean 545.5
Std Dev 509.1
400
300
200
100
0
−100
−200
−300

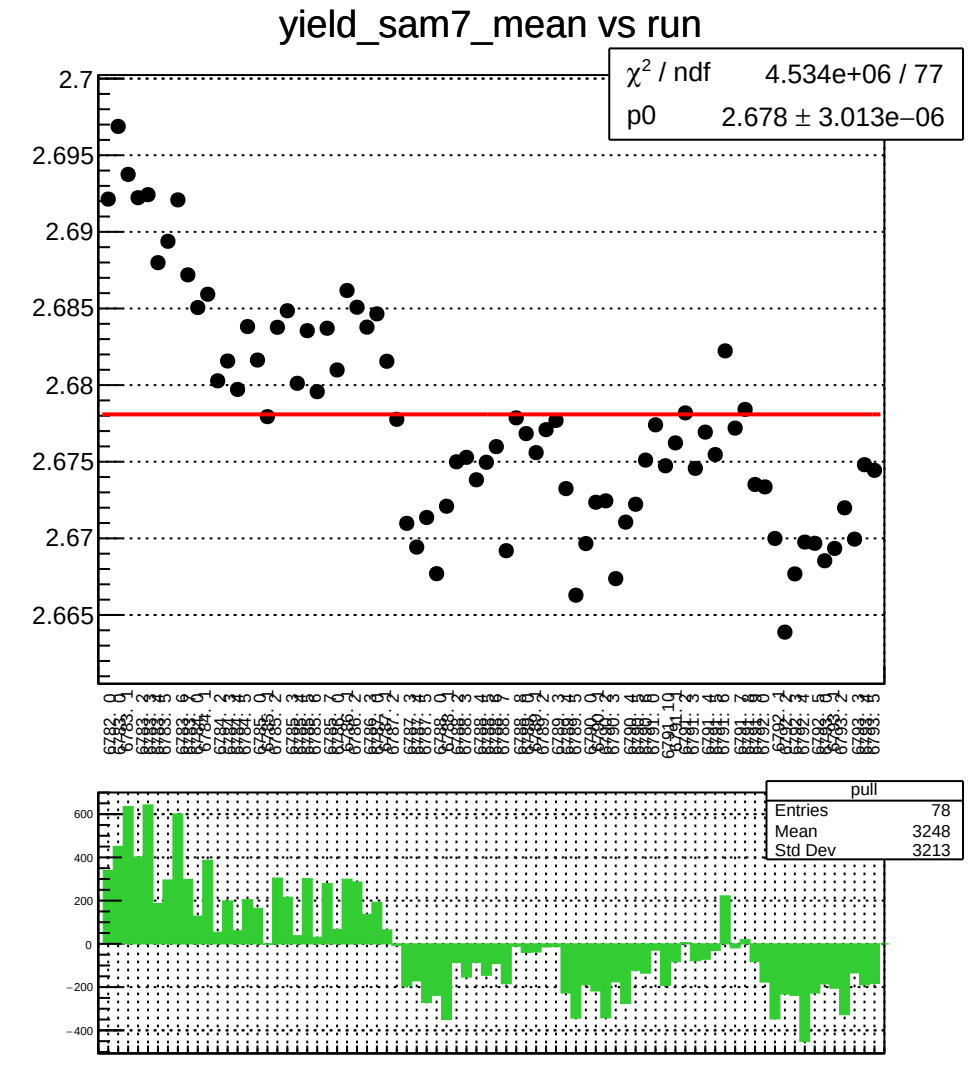

pull1D
Entries 78
Mean 0.08156
Std Dev 2.873
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

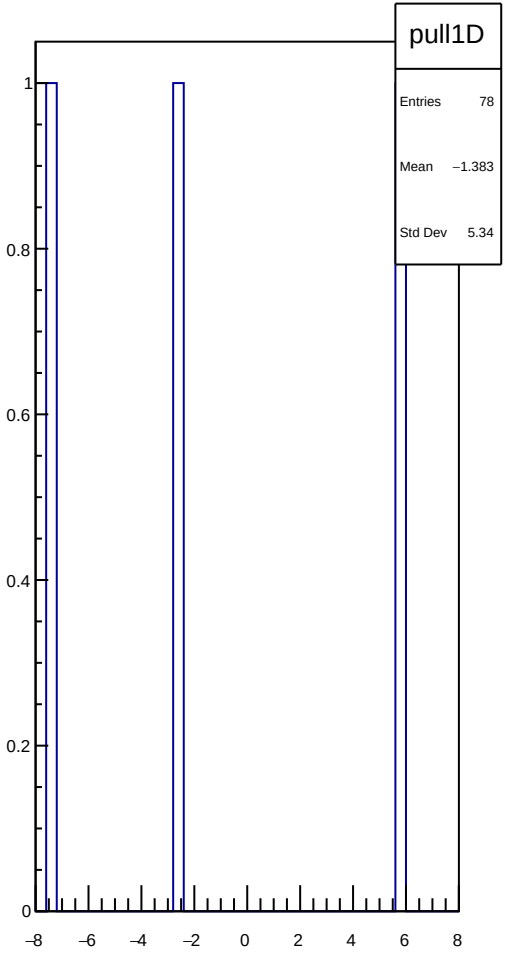

yield_sam5_rms vs run
χ^2 / ndf 6.55e+04 / 77
p0 0.0539 ± 4.398e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

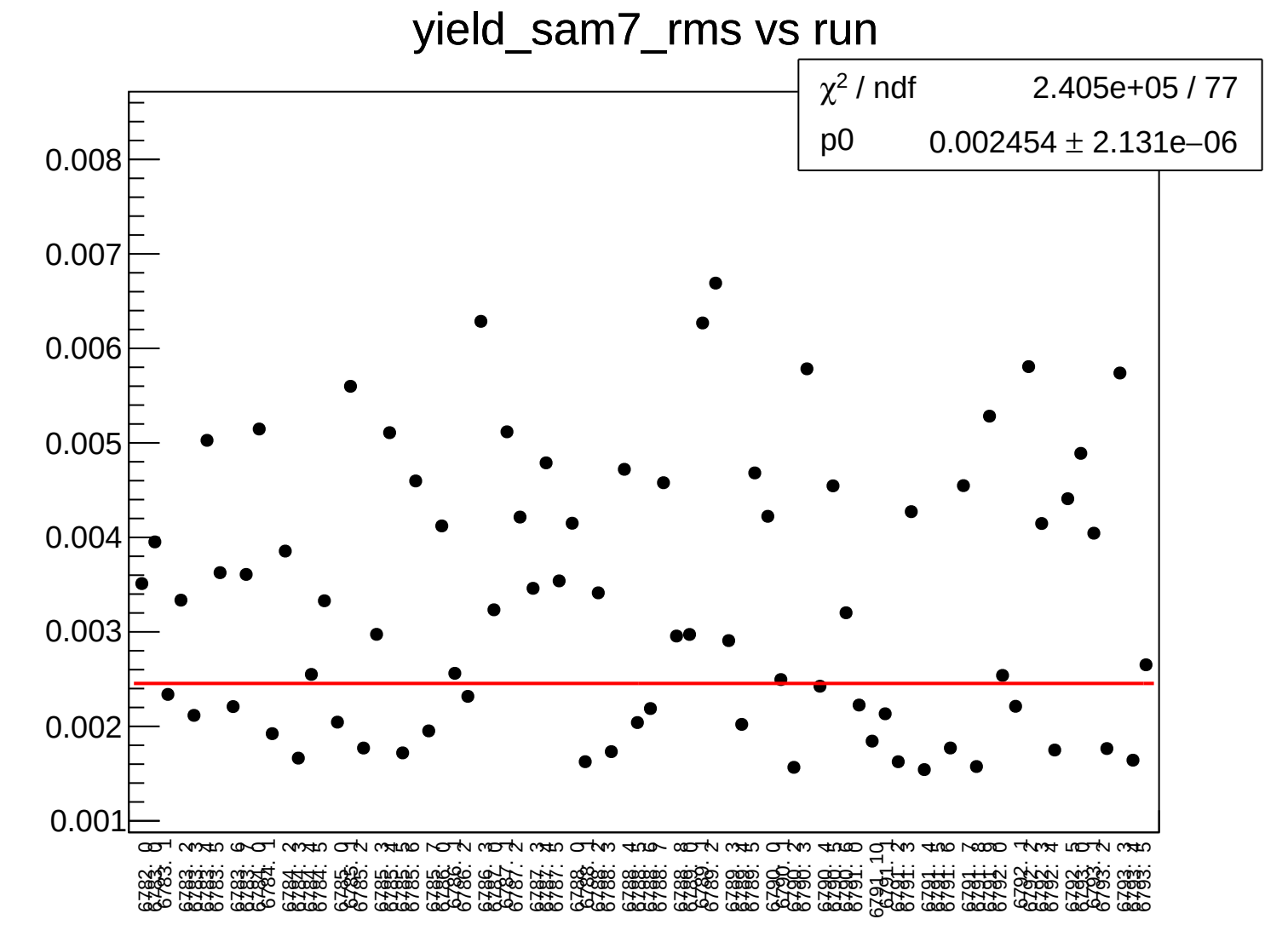

yield_sam6_mean vs run
χ² / ndf 2.149e+06 / 77
p0 9.54 ± 3.241e−05
9.65
9.6
9.55
9.5
9.45
pull
Entries 78
Mean 3060
Std Dev 3023
400
300
200
100
0
−100
−200
−300

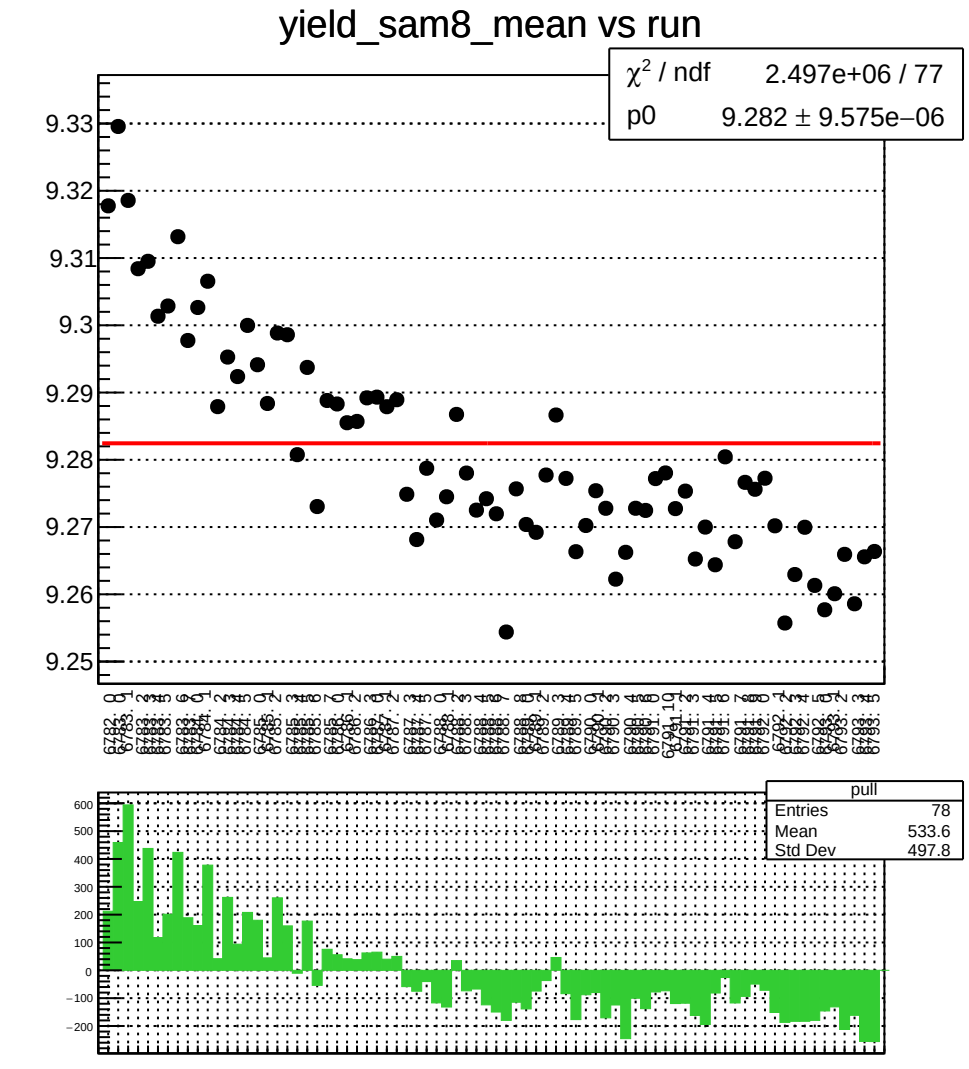

pull1D
Entries 78
Mean −0.5756
Std Dev 5.052
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

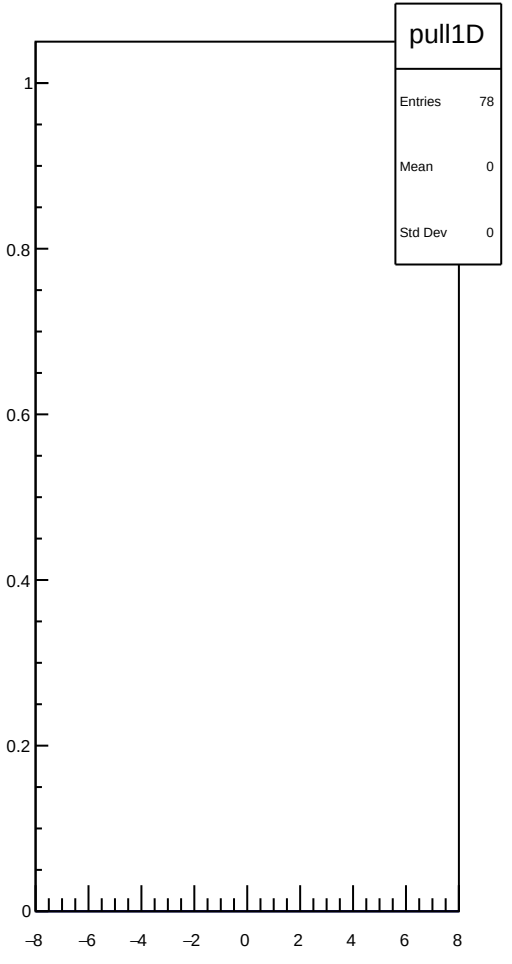

yield_sam6_rms vs run
χ² / ndf 7.992e+04 / 77
p0 0.02795 ± 2.292e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

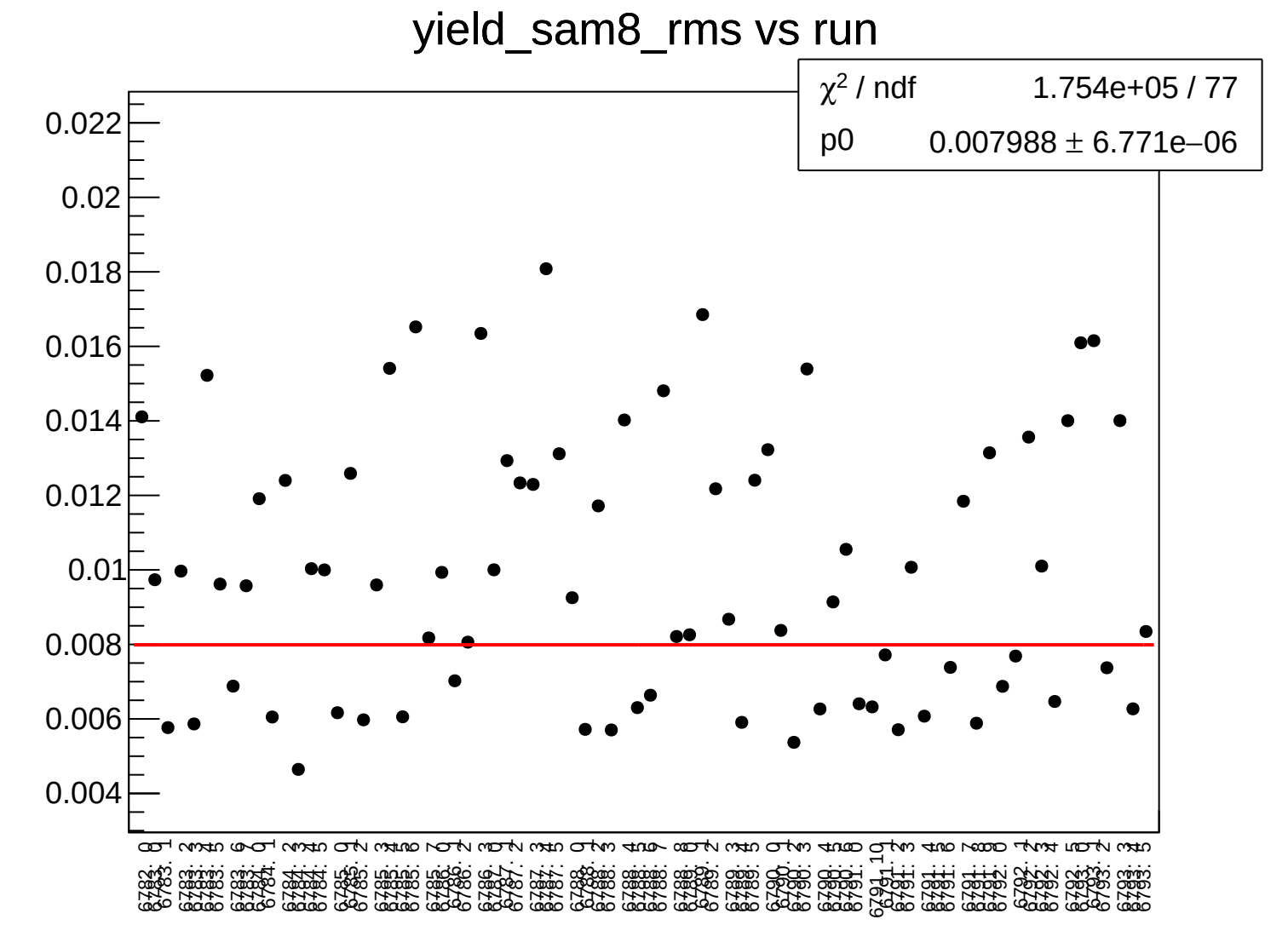

yield_sam7_mean vs run
χ² / ndf 4.534e+06 / 77
p0 2.678 ± 3.013e−06
2.7
2.695
2.69
2.685
2.68
2.675
2.67
2.665
pull
Entries 78
Mean 3248
Std Dev 3213
600
400
200
0
−200
−400

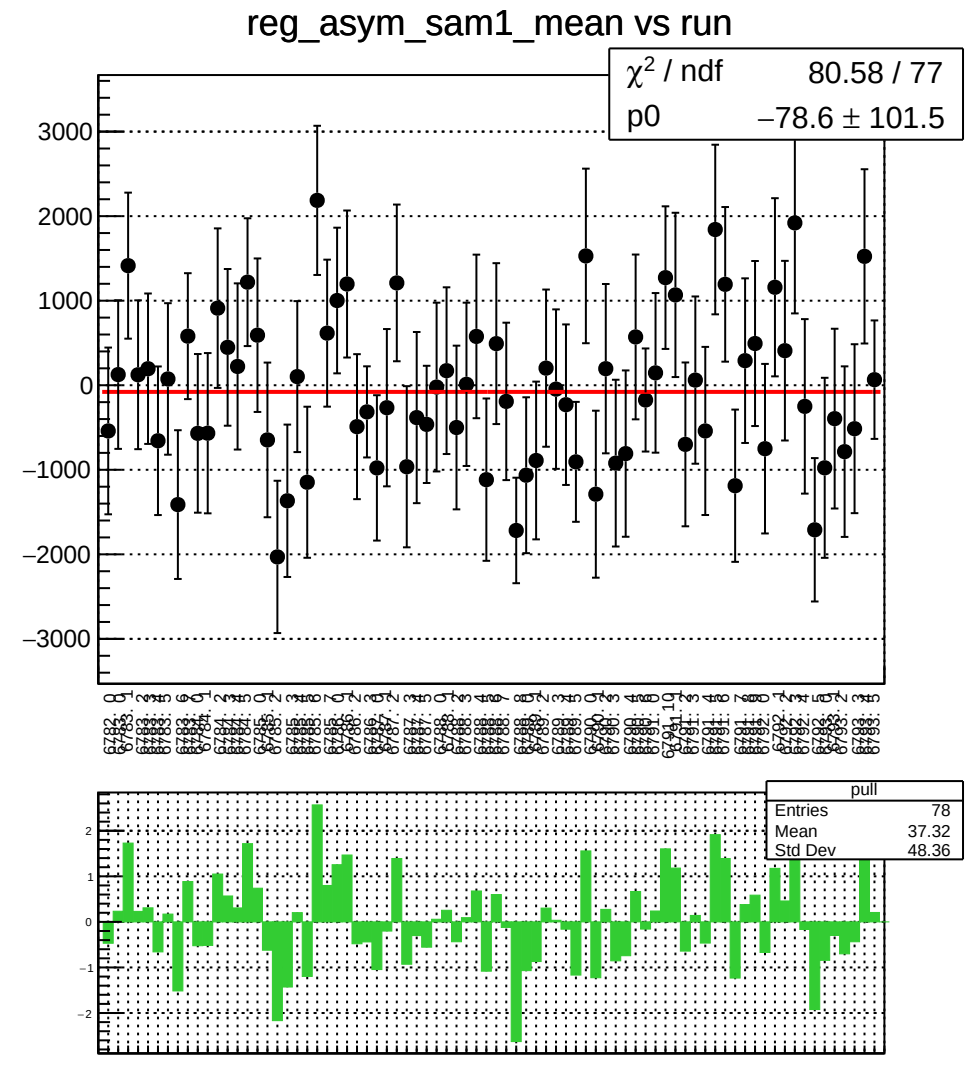

pull1D
Entries 78
Mean −1.383
Std Dev 5.34
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

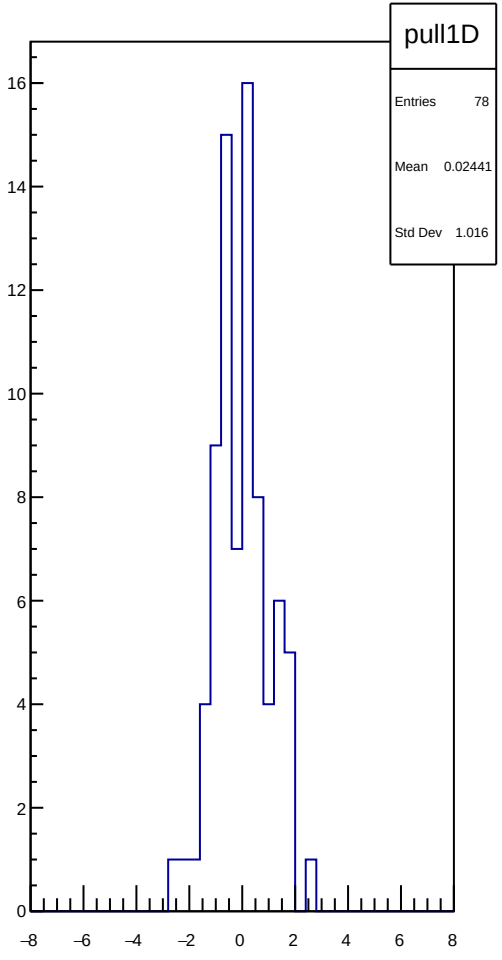

yield_sam7_rms vs run
χ² / ndf 2.405e+05 / 77
p0 0.002454 ± 2.131e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

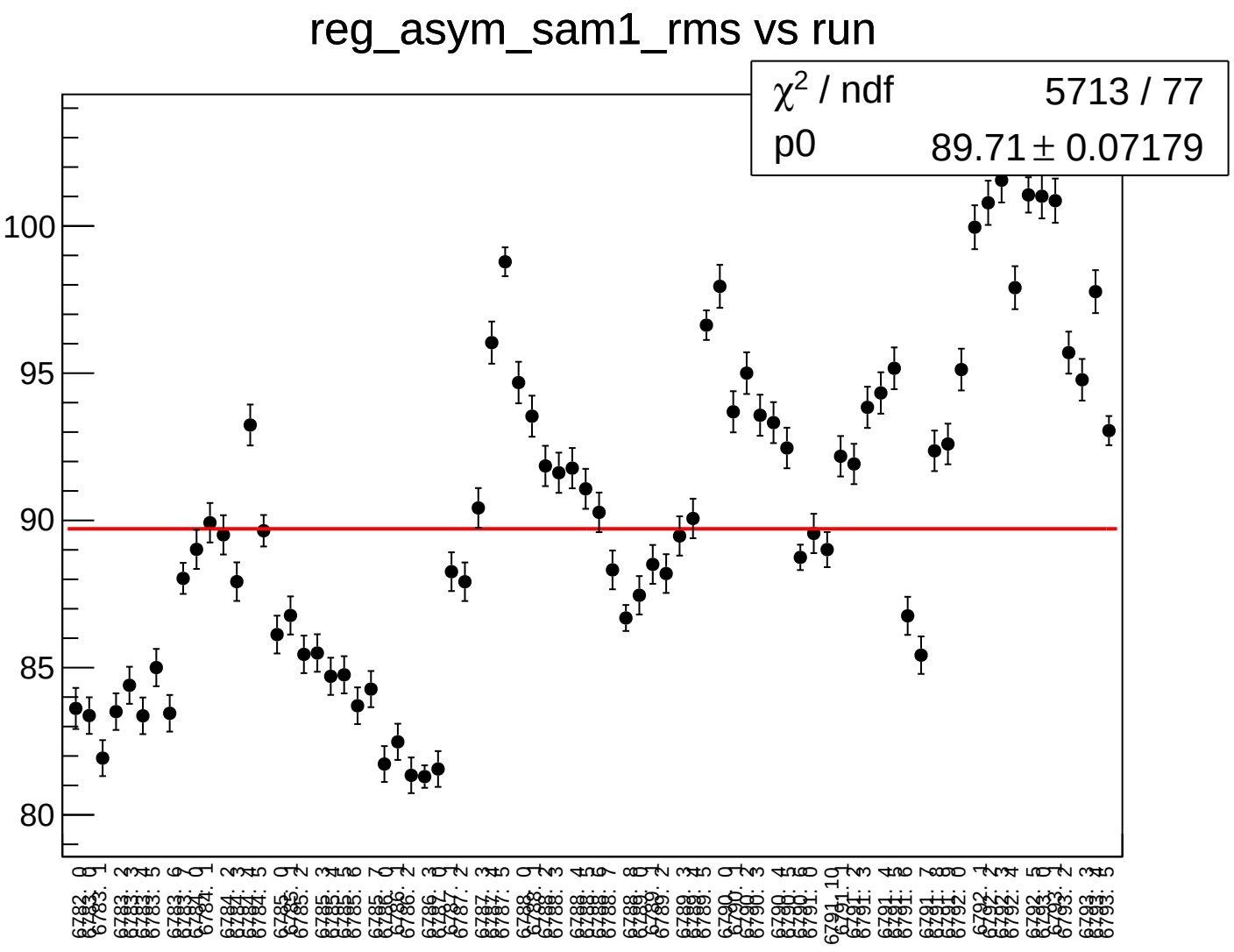

yield_sam8_mean vs run
χ² / ndf 2.497e+06 / 77
p0 9.282 ± 9.575e−06
9.33
9.32
9.31
9.3
9.29
9.28
9.27
9.26
9.25
pull
Entries 78
Mean 533.6
Std Dev 497.8
600
500
400
300
200
100
0
−100
−200

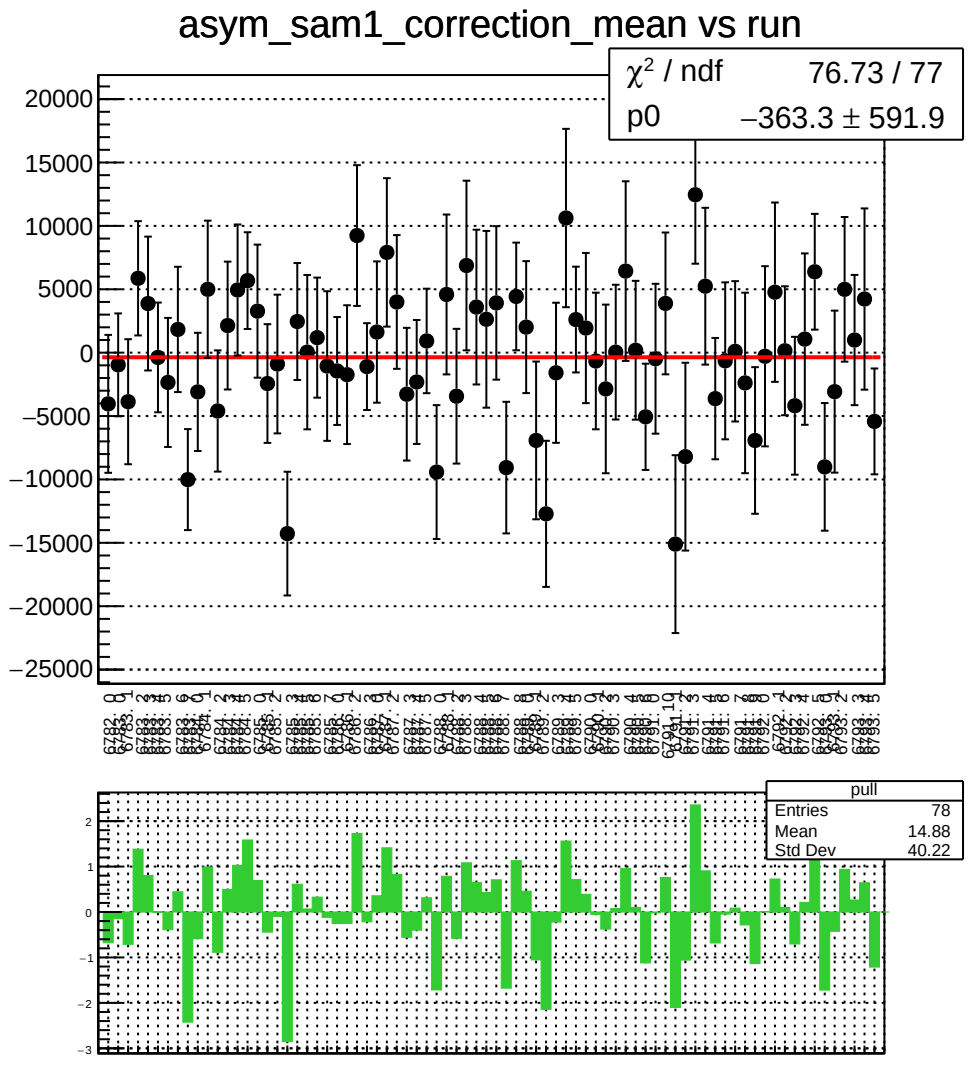

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

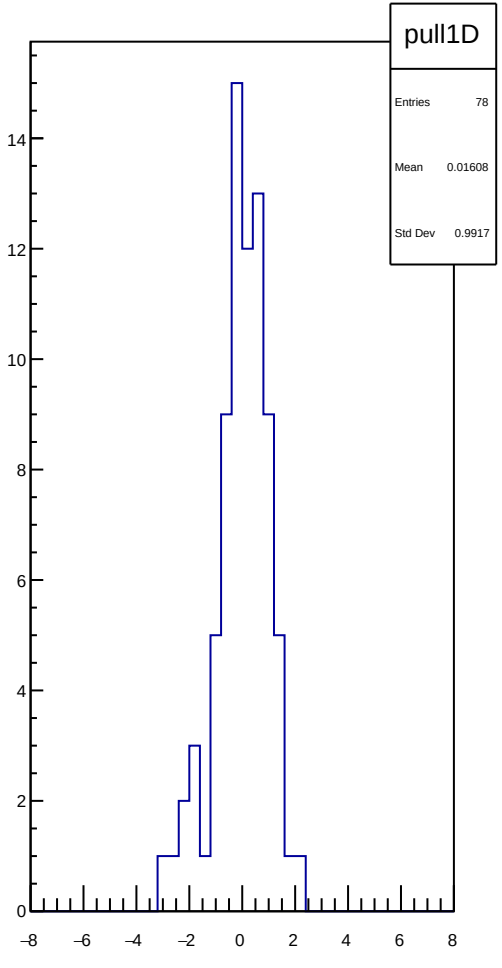

yield_sam8_rms vs run
χ² / ndf 1.754e+05 / 77
p0 0.007988 ± 6.771e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

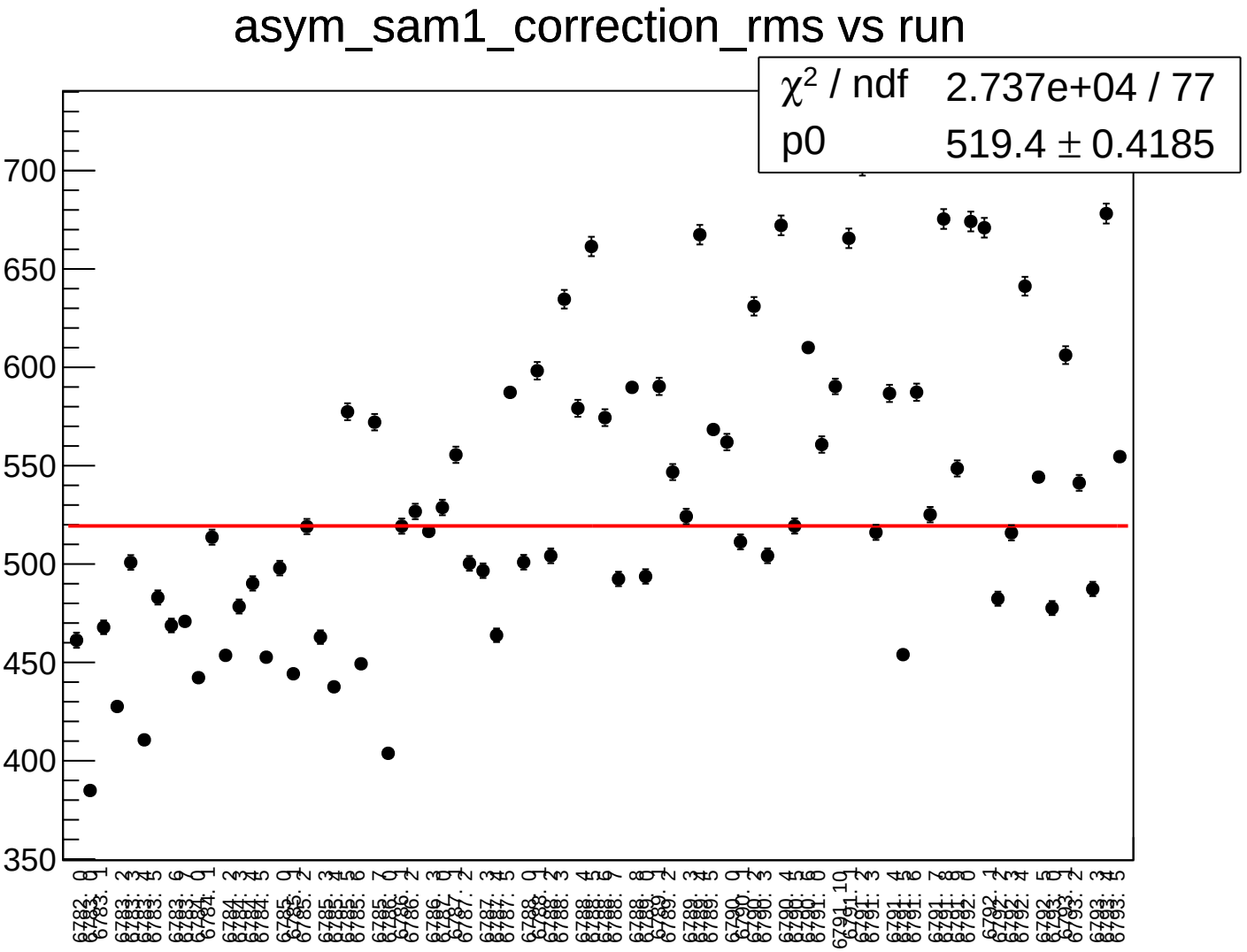

reg_asym_sam1_mean vs run
χ² / ndf 80.58 / 77
p0 −78.6 ± 101.5
pull
Entries 78
Mean 37.32
Std Dev 48.36

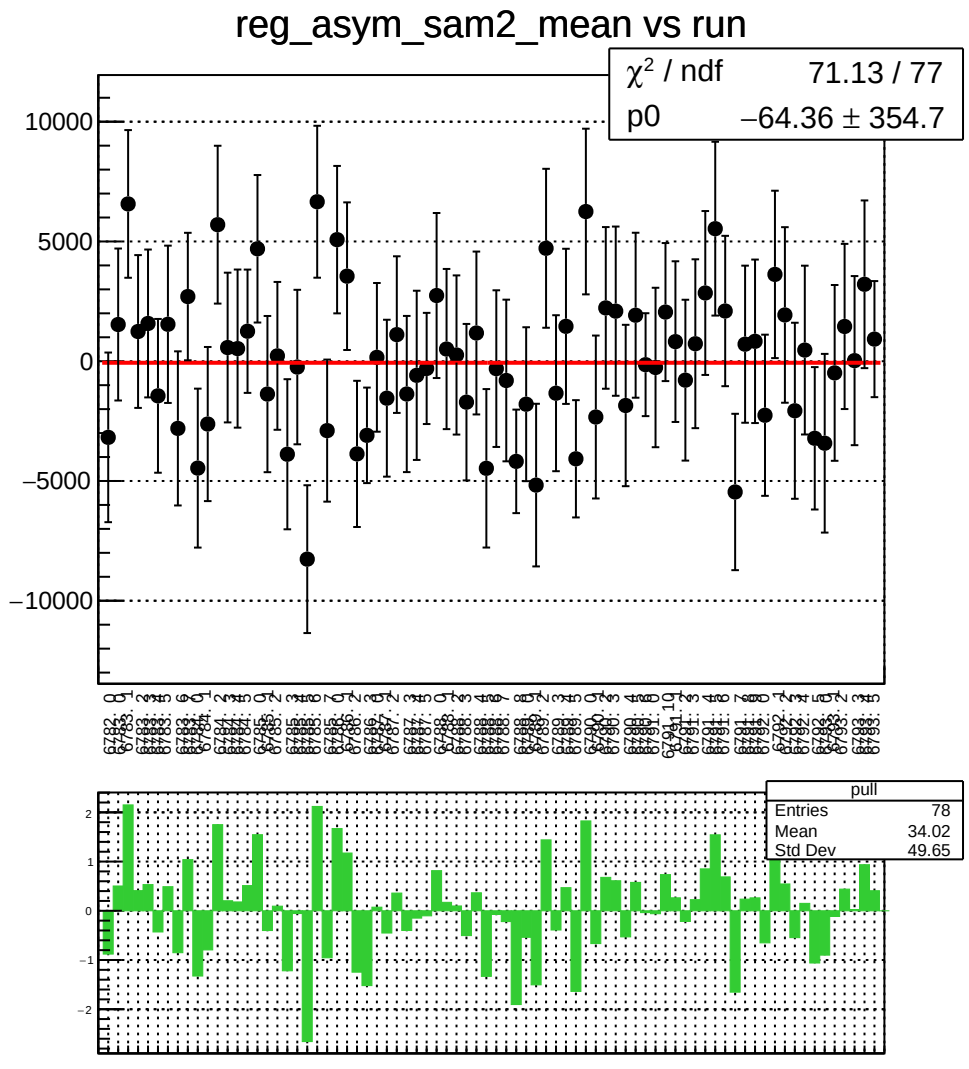

pull1D
Entries 78
Mean 0.02441
Std Dev 1.016

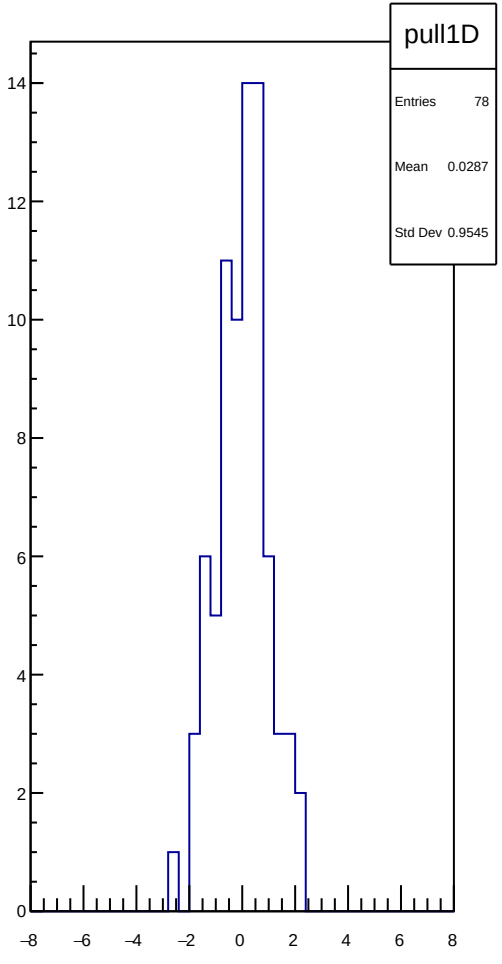

reg_asym_sam1_rms vs run
χ^2 / ndf 5713 / 77
p0 89.71 ± 0.07179
100
95
90
85
80

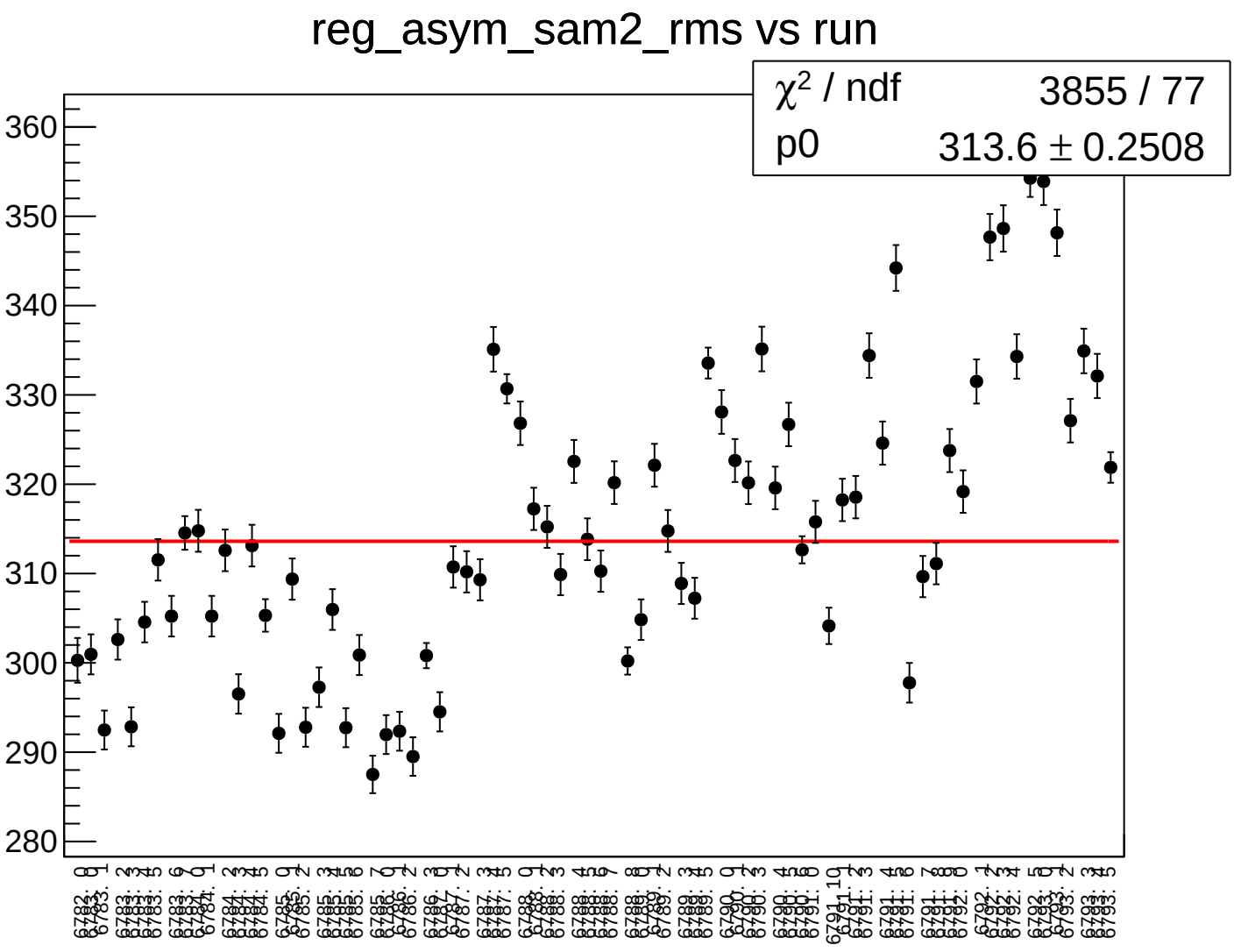

asym_sam1_correction_mean vs run
χ² / ndf 76.73 / 77
p0 −363.3 ± 591.9
pull
Entries 78
Mean 14.88
Std Dev 40.22

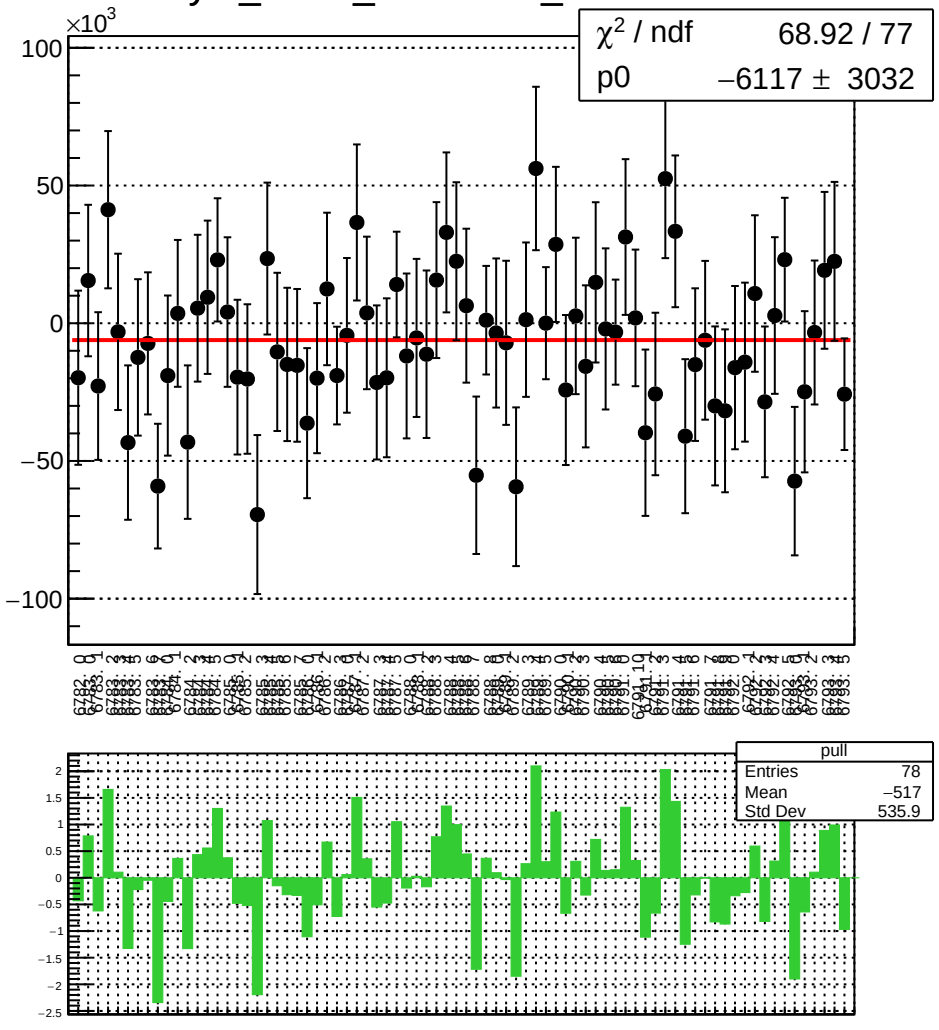

pull1D
Entries 78
Mean 0.01608
Std Dev 0.9917

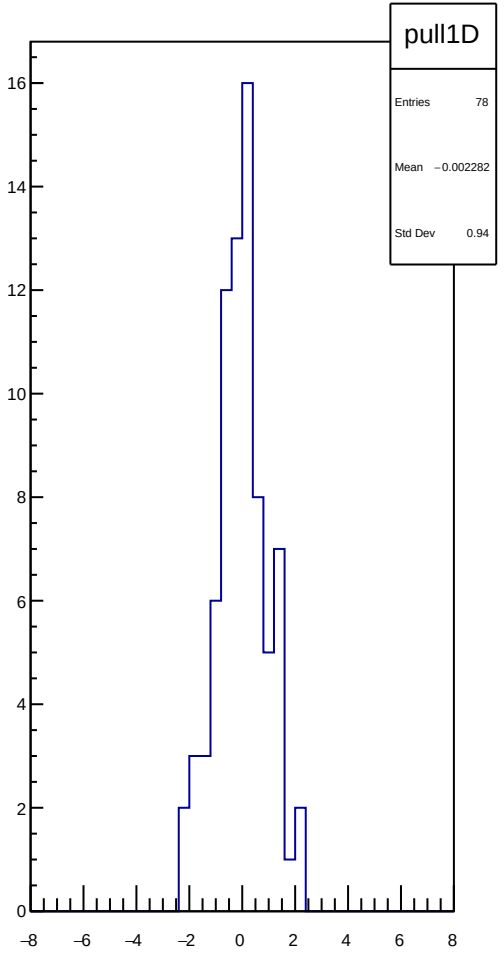

asym_sam1_correction_rms vs run
χ² / ndf 2.737e+04 / 77
p0 519.4 ± 0.4185
700
650
600
550
500
450
400
350

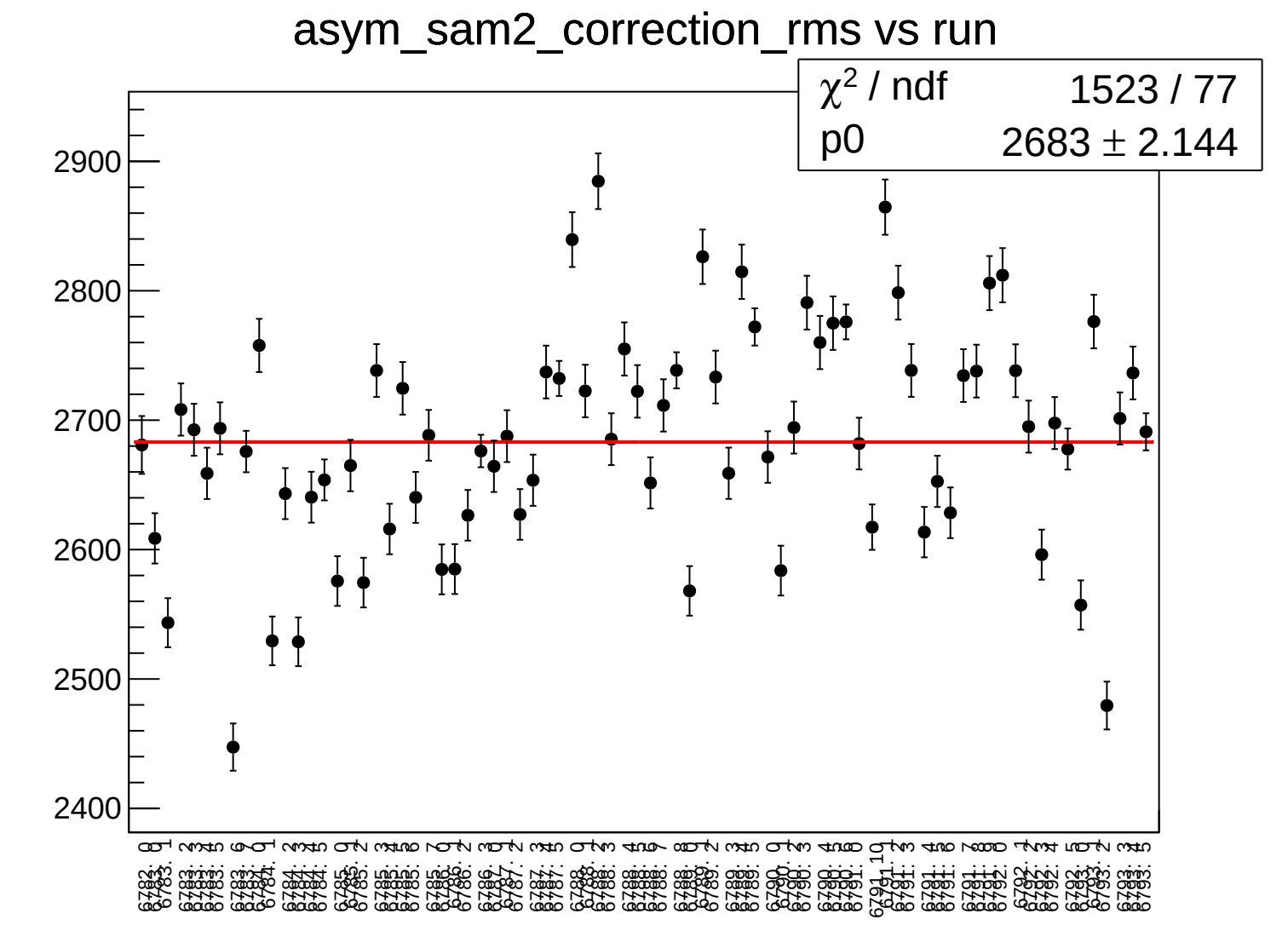

reg_asym_sam2_mean vs run
χ² / ndf 71.13 / 77
p0 −64.36 ± 354.7
10000
5000
0
−5000
−10000
pull
Entries 78
Mean 34.02
Std Dev 49.65
2
1
0
−1
−2

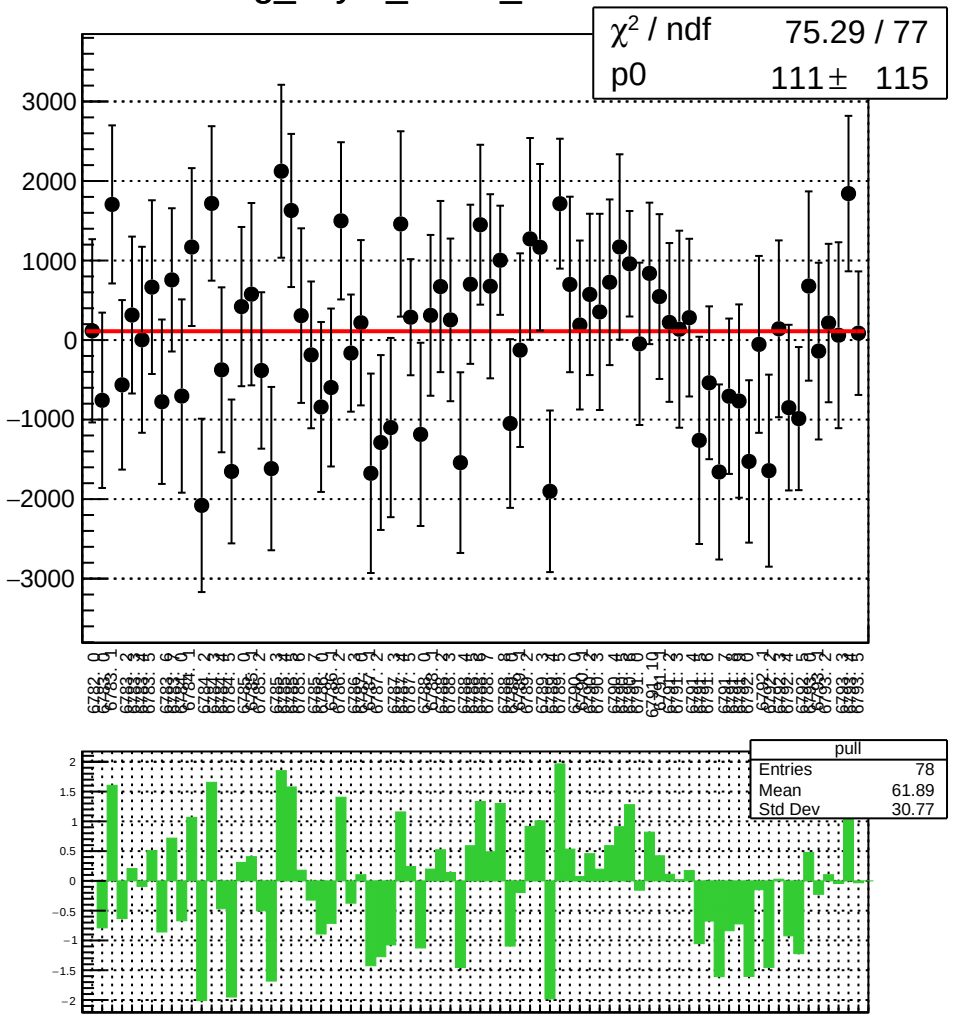

pull1D
Entries 78
Mean 0.0287
Std Dev 0.9545
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

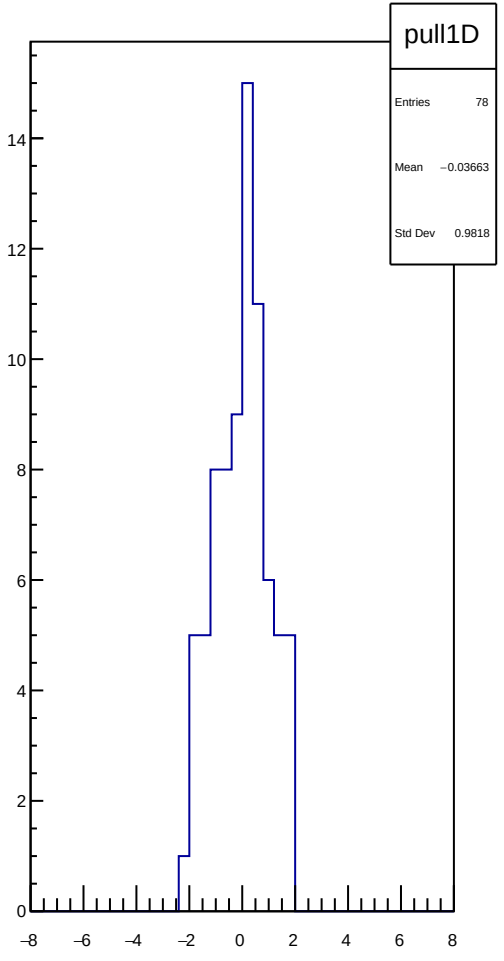

reg_asym_sam2_rms vs run
χ² / ndf 3855 / 77
p0 313.6 ± 0.2508
360
350
340
330
320
310
300
290
280

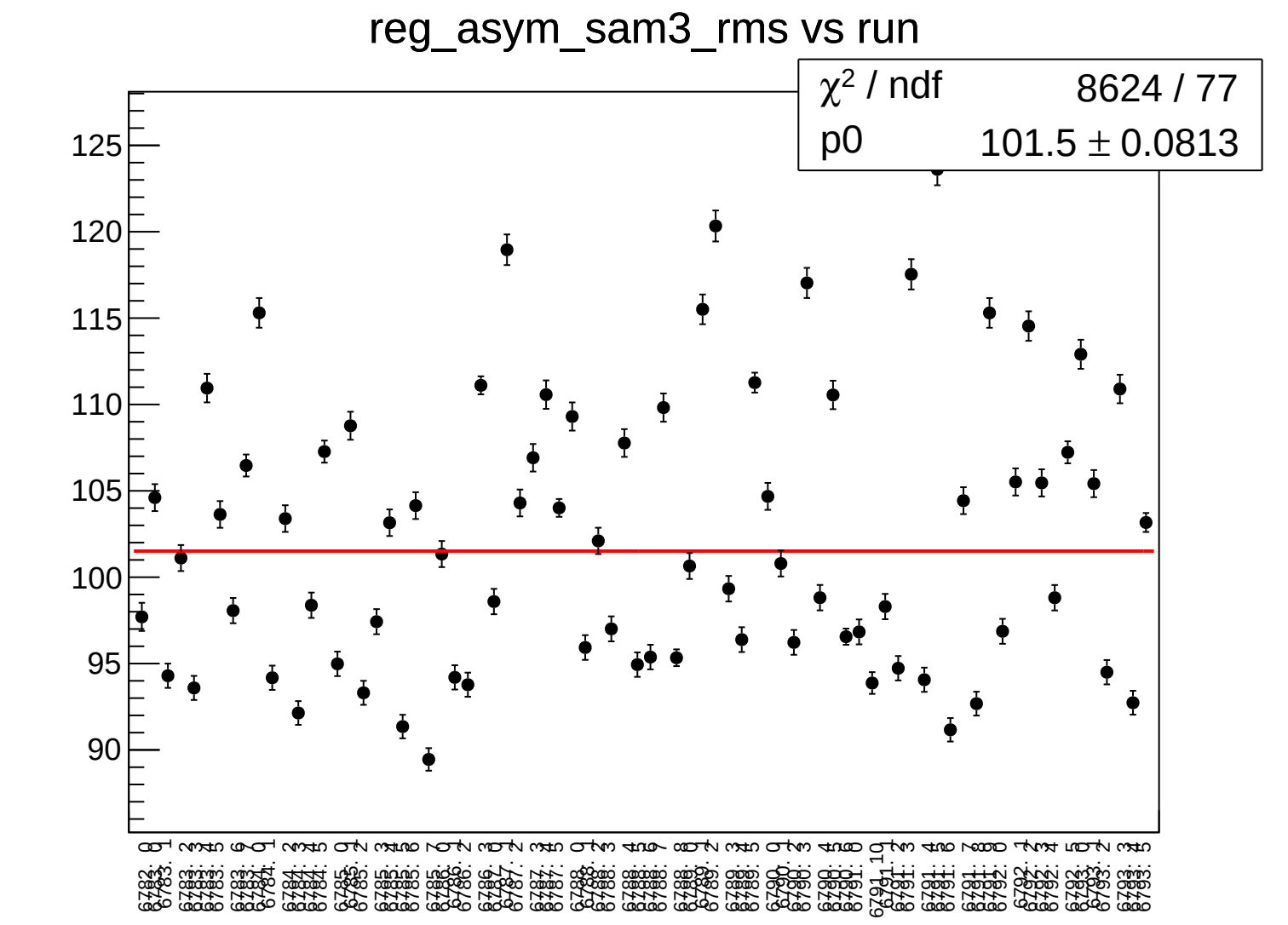

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 68.92 / 77
p0 −6117 ± 3032
pull
Entries 78
Mean −517
Std Dev 535.9

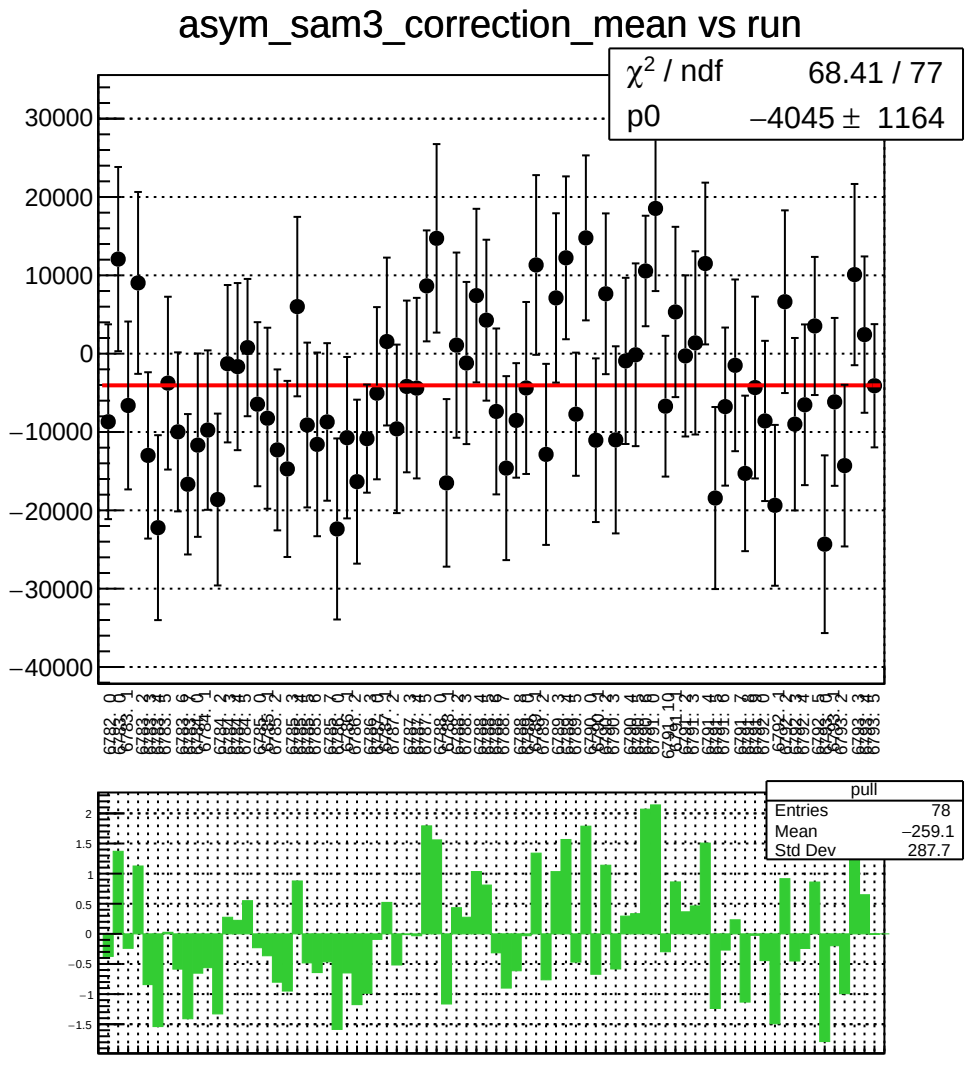

pull1D
Entries 78
Mean −0.002282
Std Dev 0.94

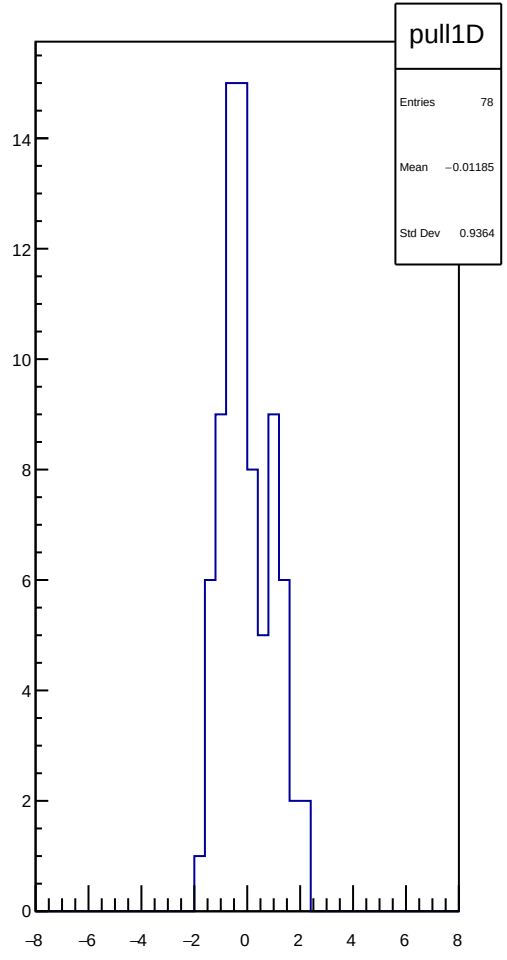

asym_sam2_correction_rms vs run
χ² / ndf 1523 / 77
p0 2683 ± 2.144
2900
2800
2700
2600
2500
2400

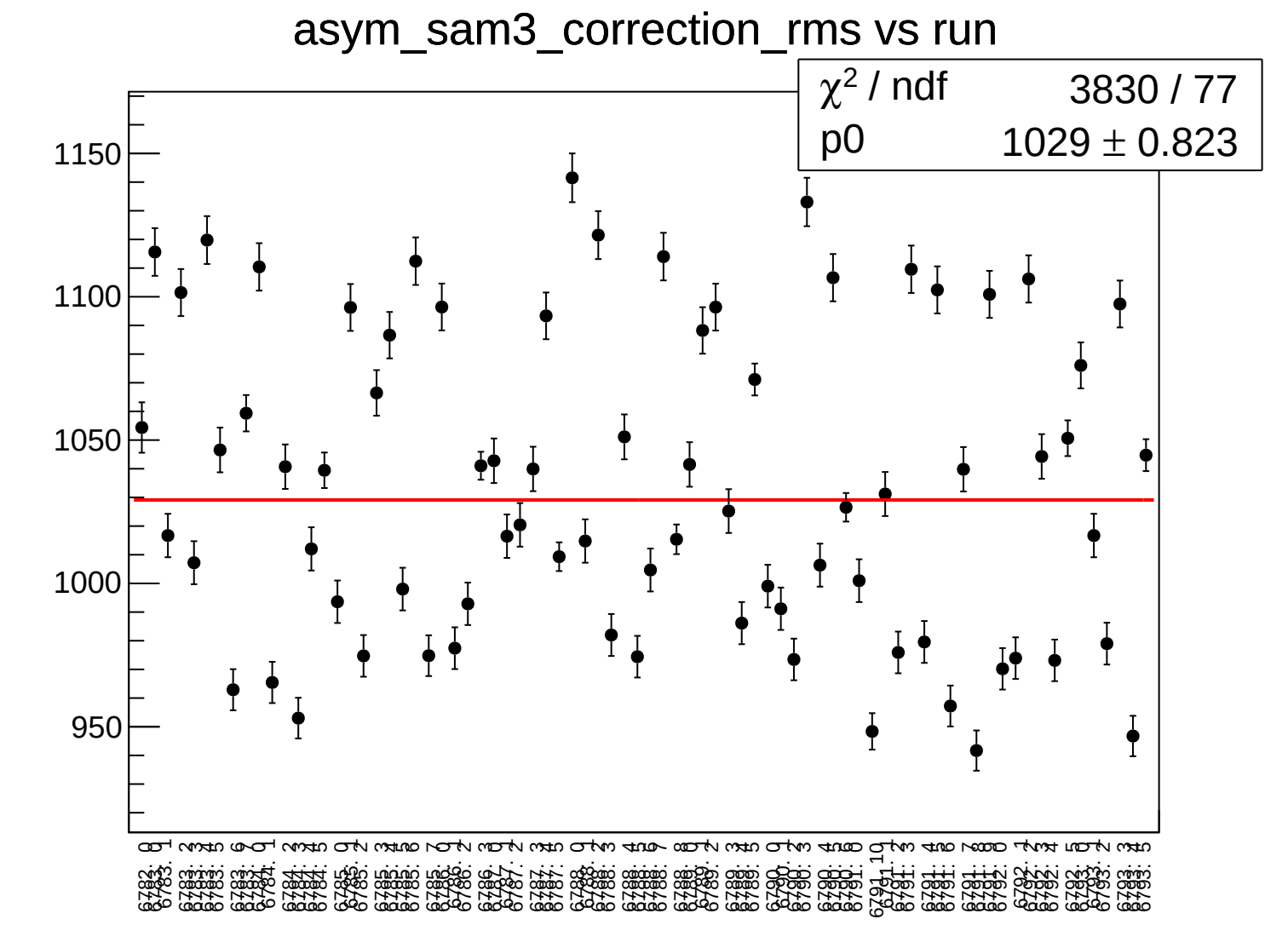

reg_asym_sam3_mean vs run
χ² / ndf 75.29 / 77
p0 111 ± 115
pull
Entries 78
Mean 61.89
Std Dev 30.77

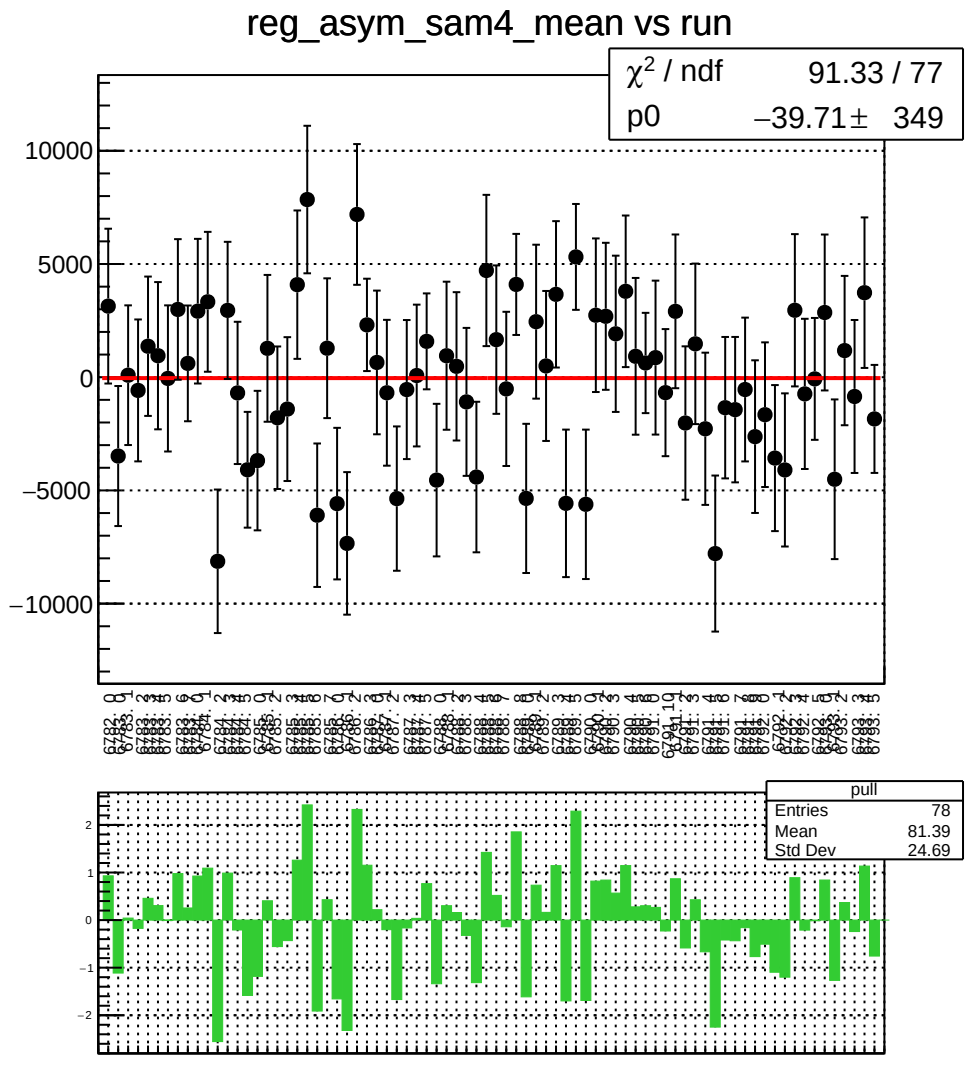

pull1D
Entries 78
Mean −0.03663
Std Dev 0.9818

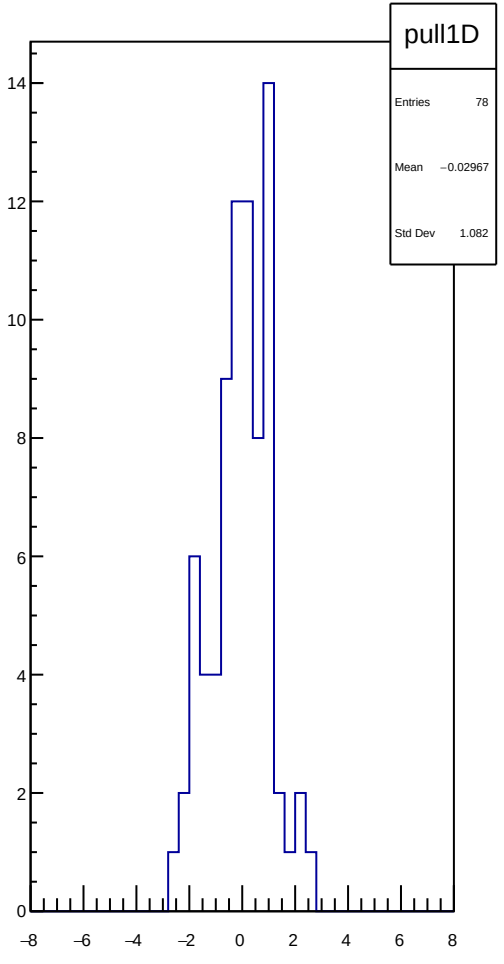

reg_asym_sam3_rms vs run
χ² / ndf 8624 / 77
p0 101.5 ± 0.0813
125
120
115
110
105
100
95
90

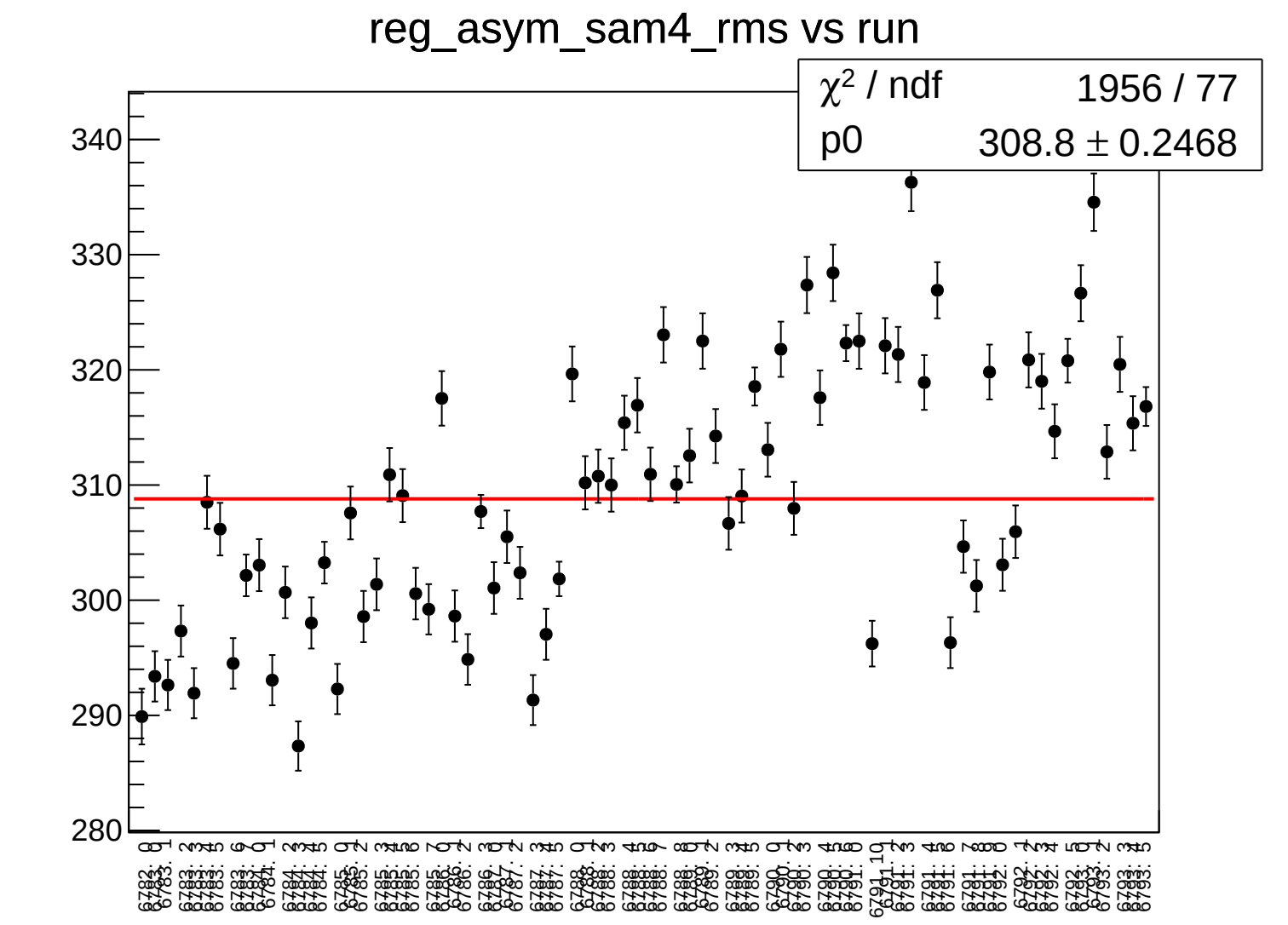

asym_sam3_correction_mean vs run
χ² / ndf 68.41 / 77
p0 −4045 ± 1164
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 78
Mean −259.1
Std Dev 287.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

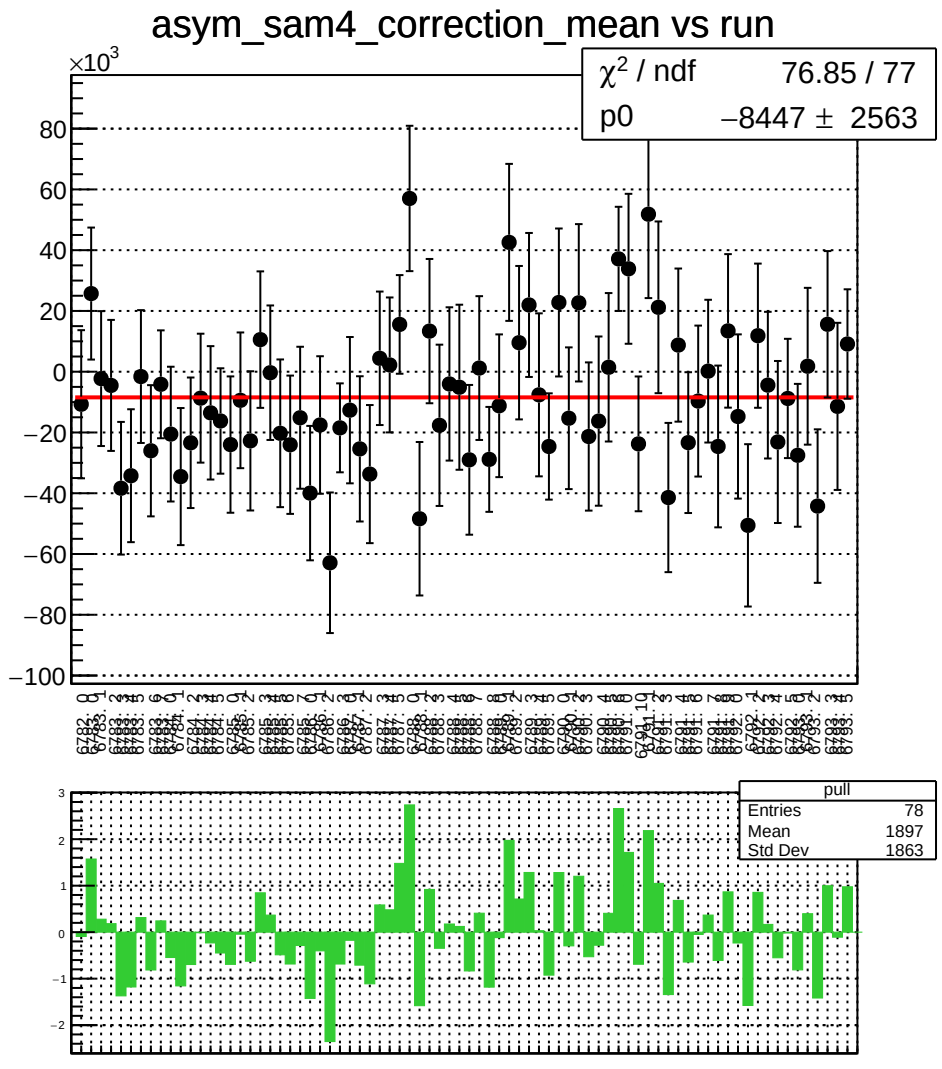

pull1D
Entries 78
Mean −0.01185
Std Dev 0.9364
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

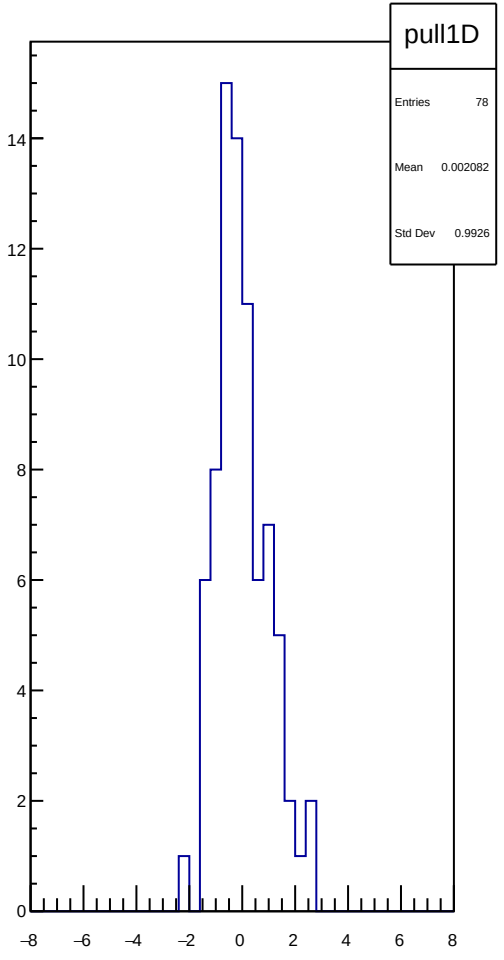

asym_sam3_correction_rms vs run
χ^2 / ndf 3830 / 77
p0 1029 ± 0.823
1150
1100
1050
1000
950

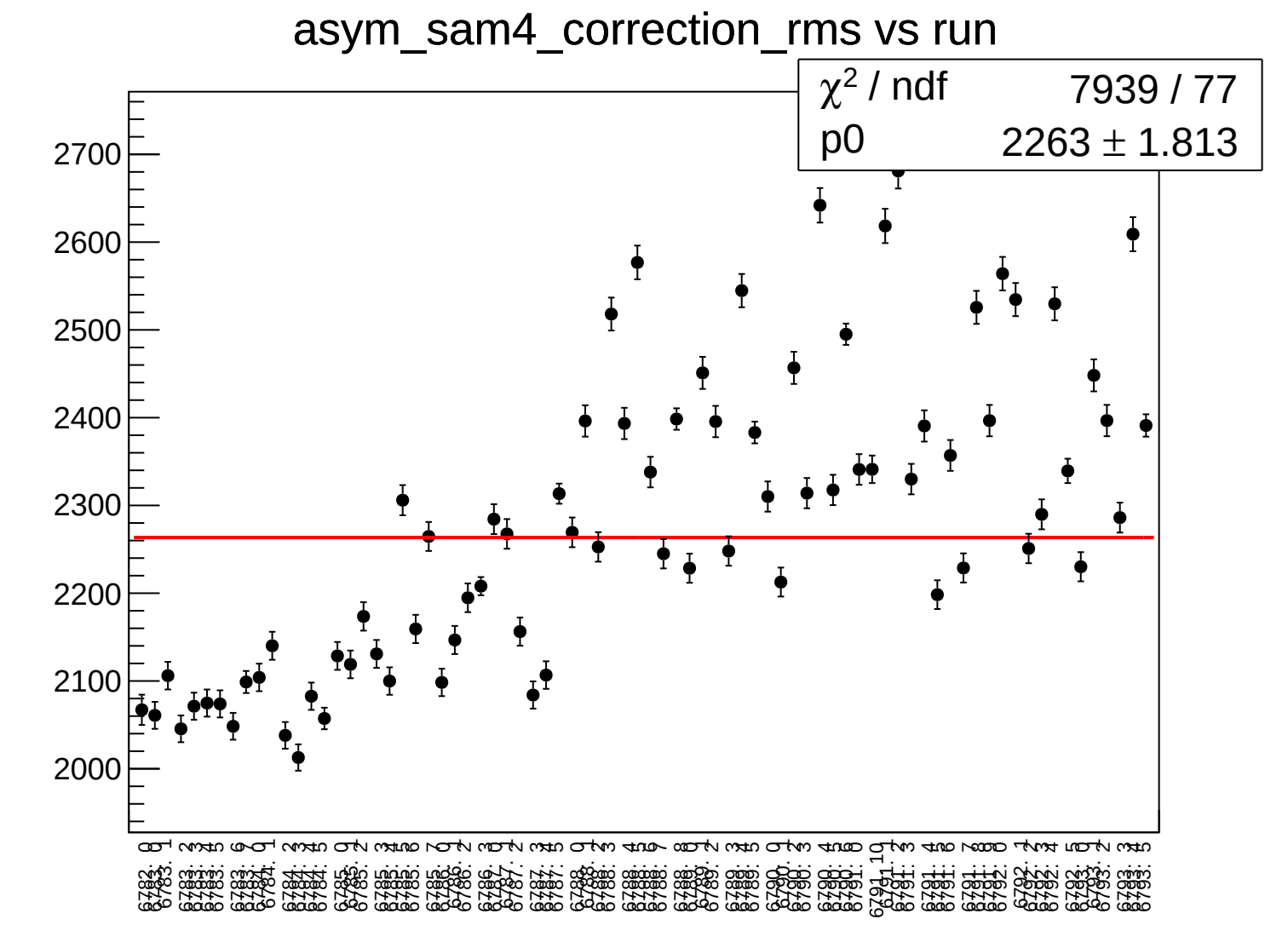

reg_asym_sam4_mean vs run
χ² / ndf 91.33 / 77
p0 −39.71± 349
10000
5000
0
−5000
−10000
pull
Entries 78
Mean 81.39
Std Dev 24.69
2
1
0
−1
−2

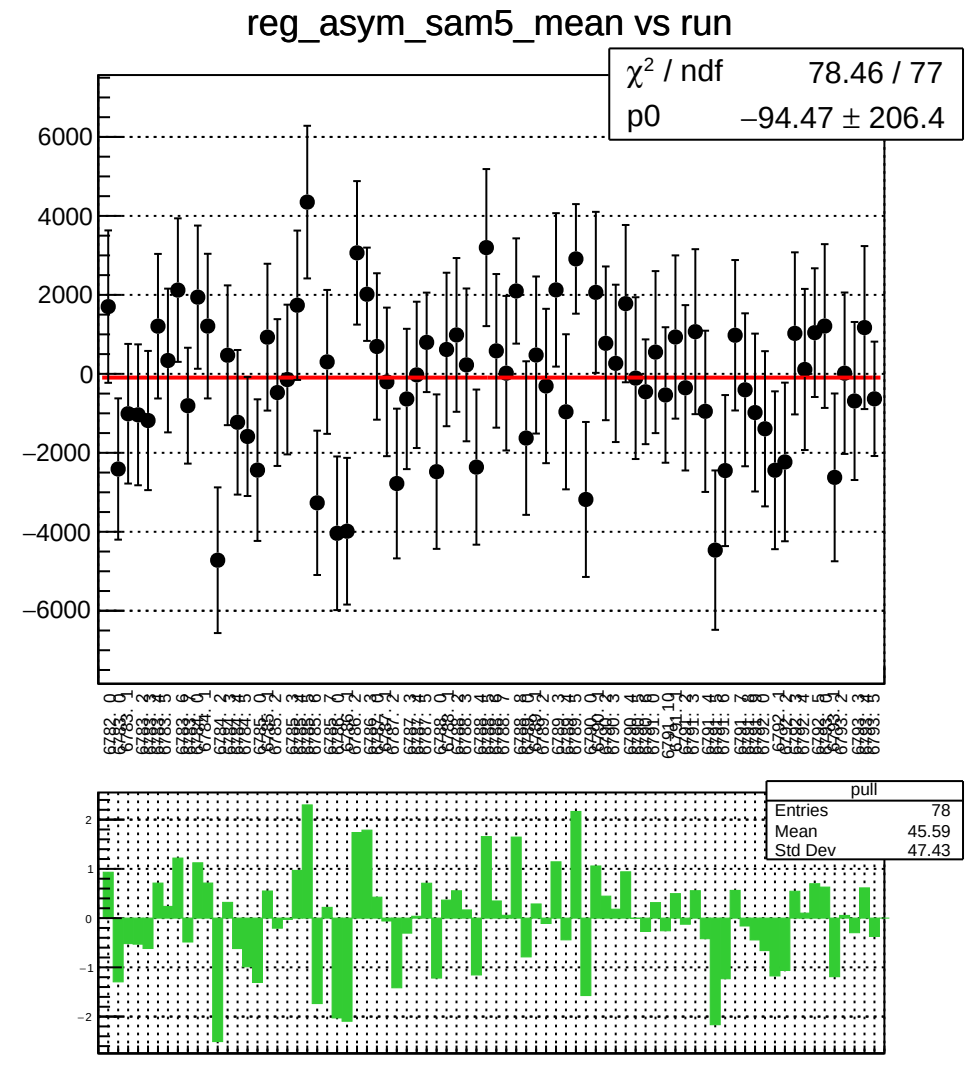

pull1D
Entries 78
Mean −0.02967
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

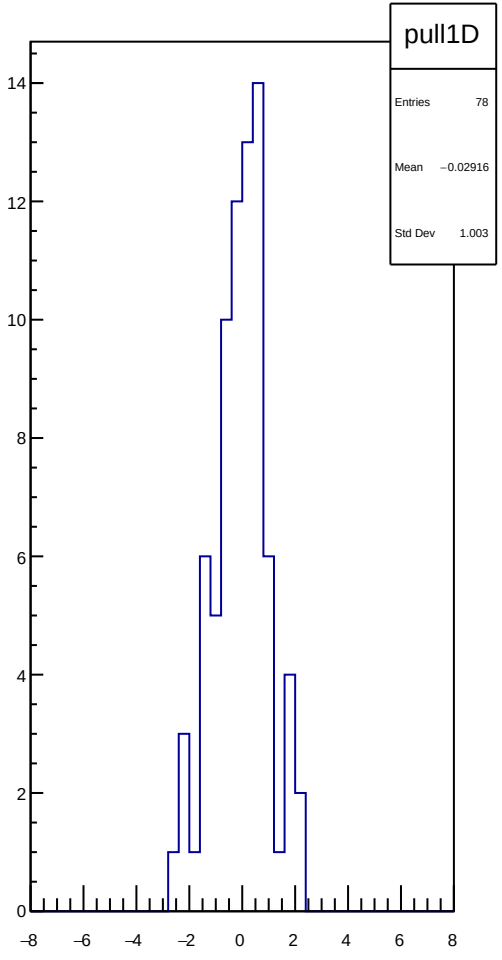

reg_asym_sam4_rms vs run
χ² / ndf 1956 / 77
p0 308.8 ± 0.2468
340
330
320
310
300
290
280

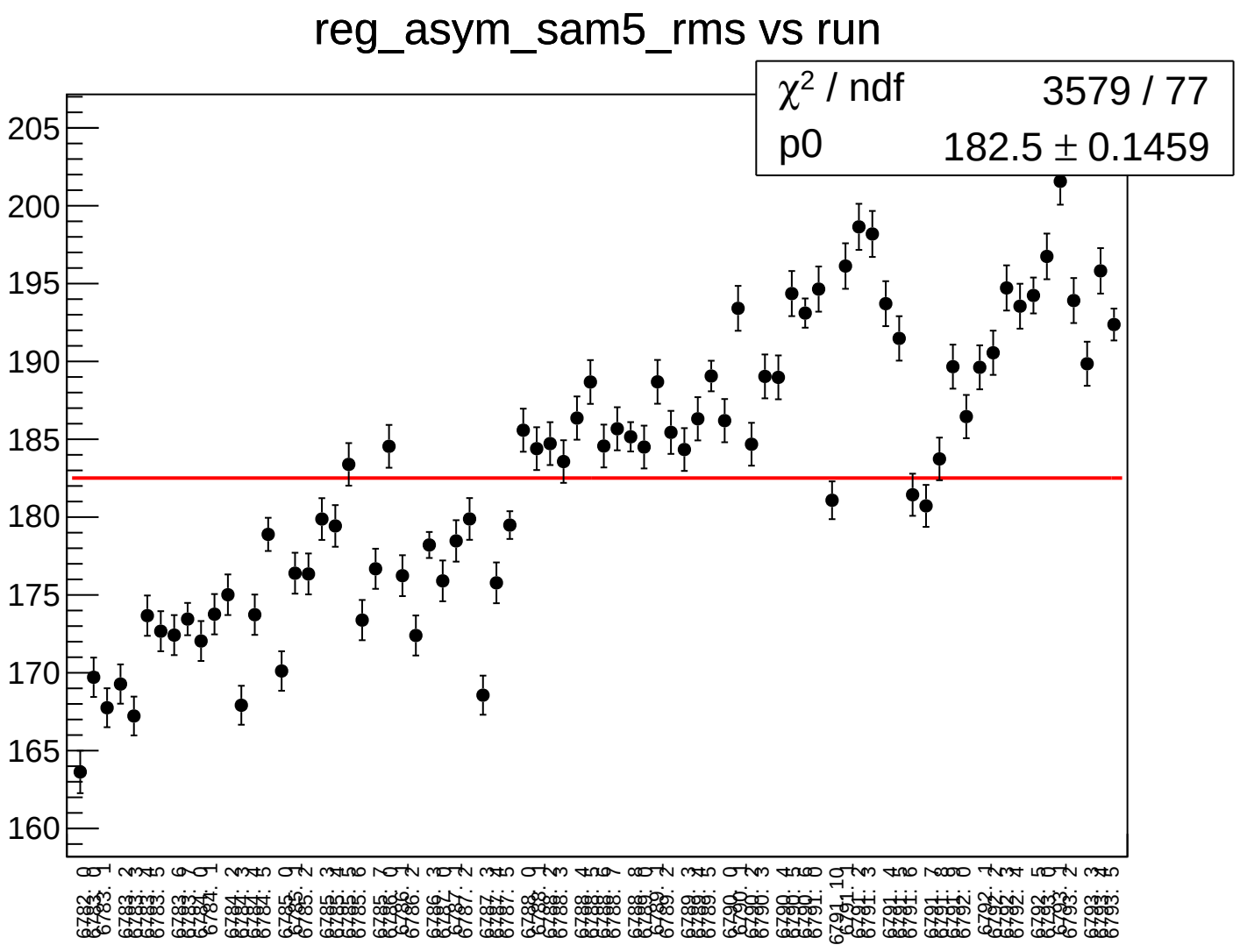

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 76.85 / 77
p0 −8447 ± 2563
pull
Entries 78
Mean 1897
Std Dev 1863

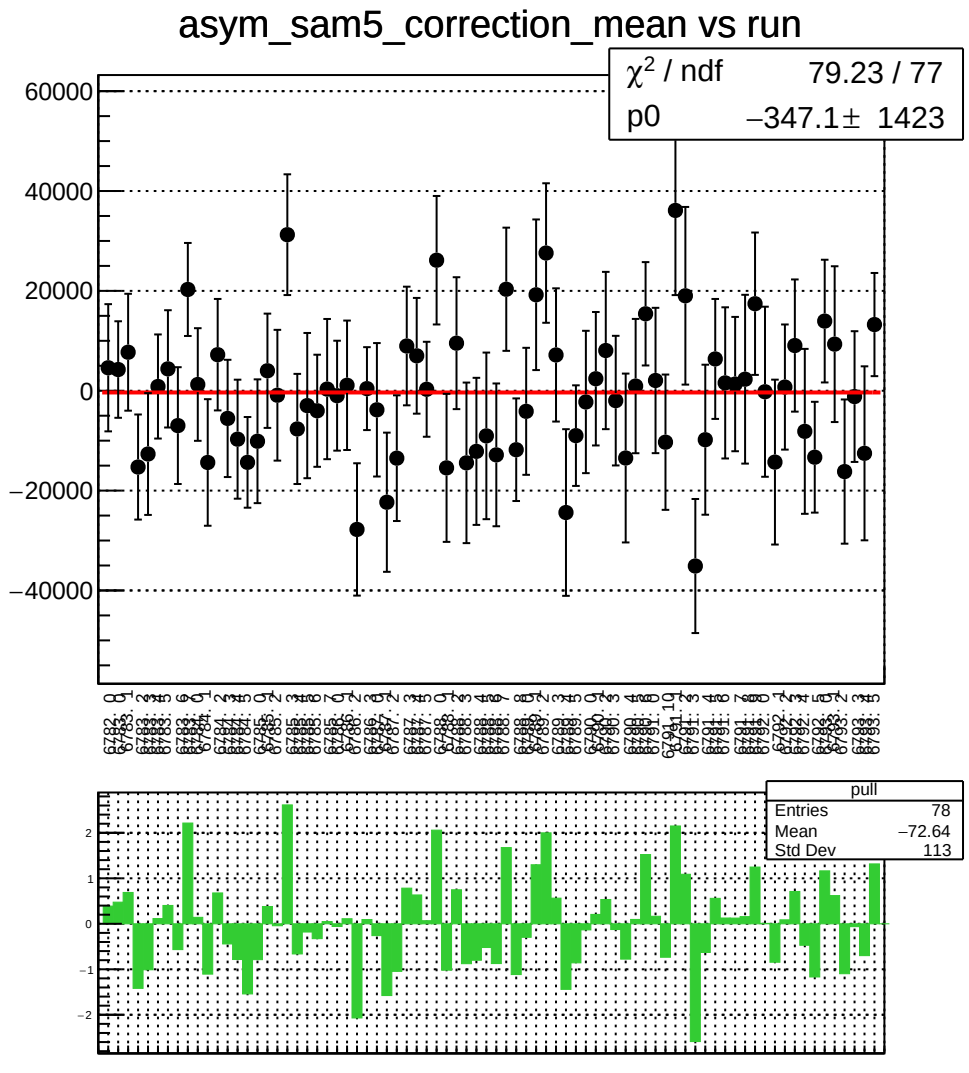

pull1D
Entries 78
Mean 0.002082
Std Dev 0.9926

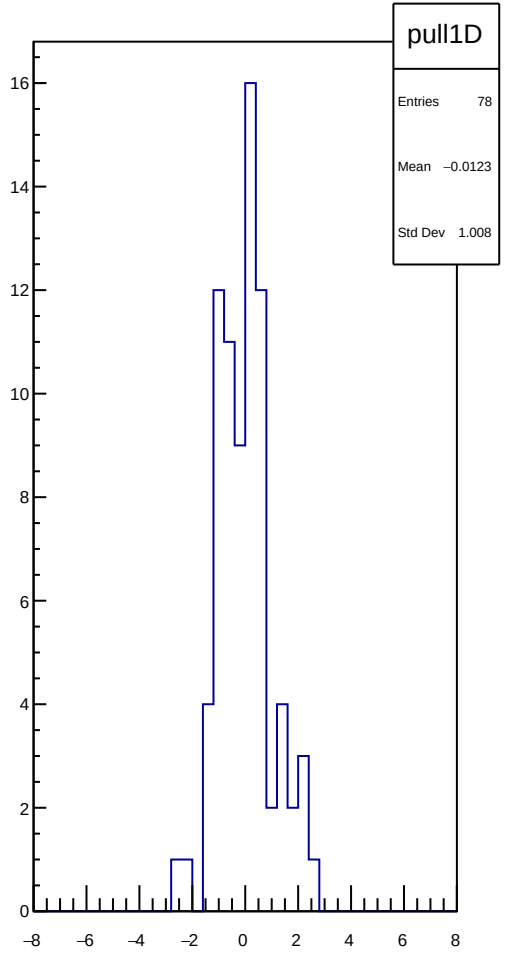

asym_sam4_correction_rms vs run
χ² / ndf 7939 / 77
p0 2263 ± 1.813
2700
2600
2500
2400
2300
2200
2100
2000

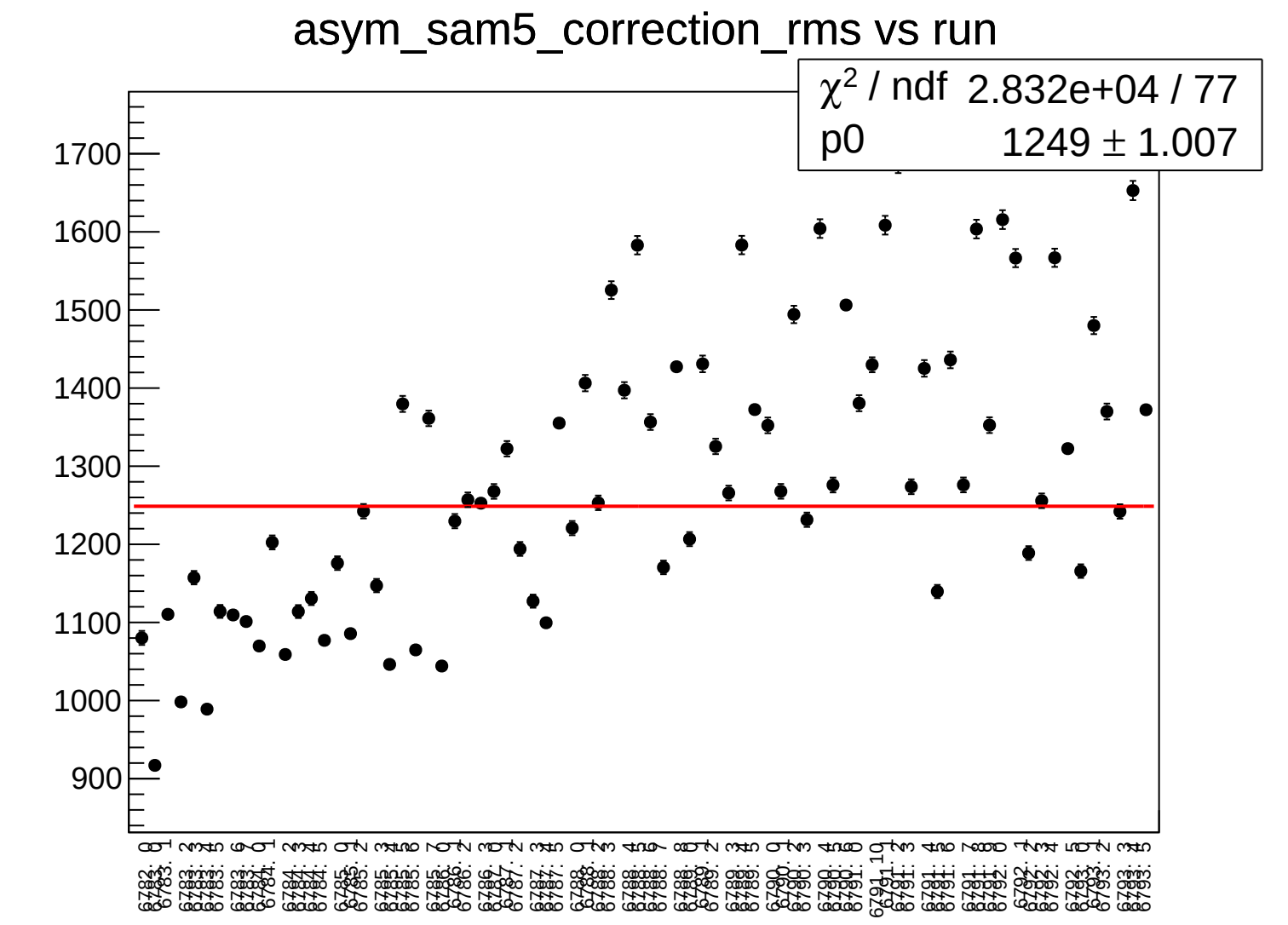

reg_asym_sam5_mean vs run
χ² / ndf 78.46 / 77
p0 −94.47 ± 206.4
pull
Entries 78
Mean 45.59
Std Dev 47.43

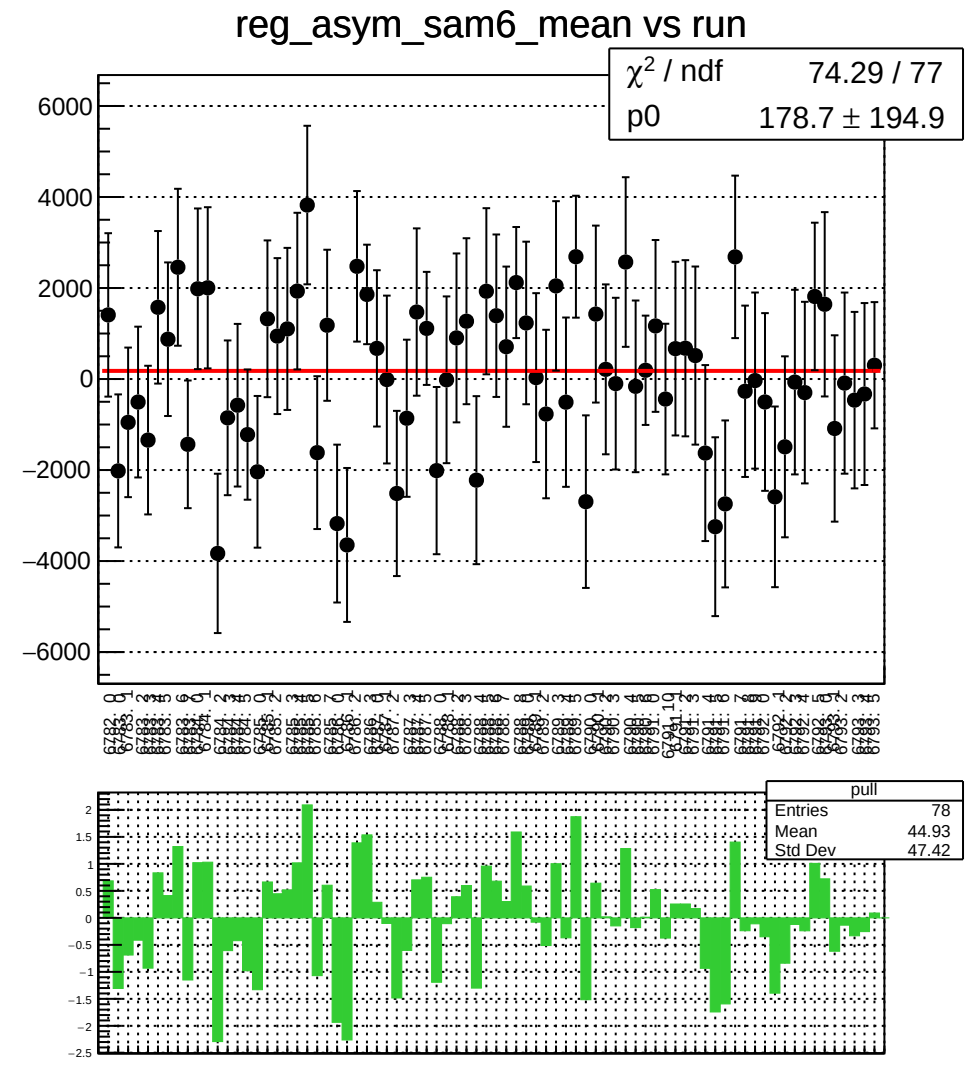

pull1D
Entries 78
Mean −0.02916
Std Dev 1.003

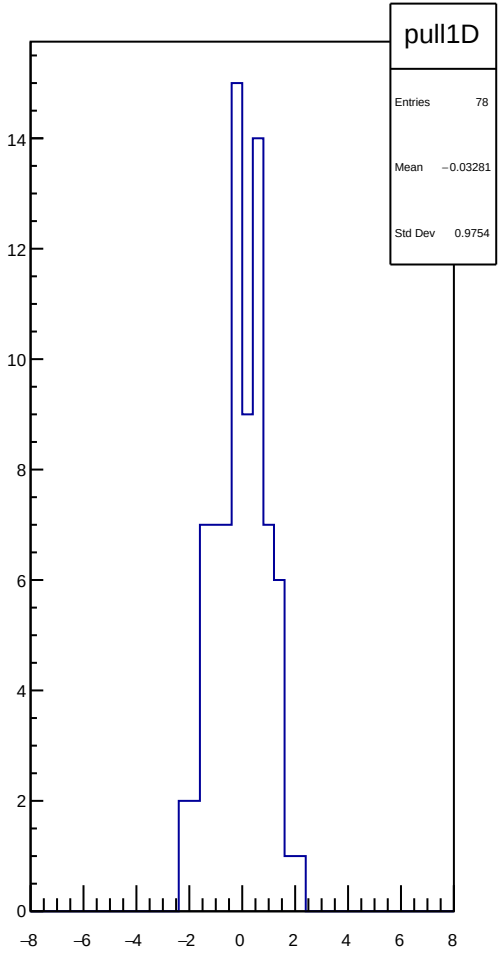

reg_asym_sam5_rms vs run
χ² / ndf 3579 / 77
p0 182.5 ± 0.1459
205
200
195
190
185
180
175
170
165
160

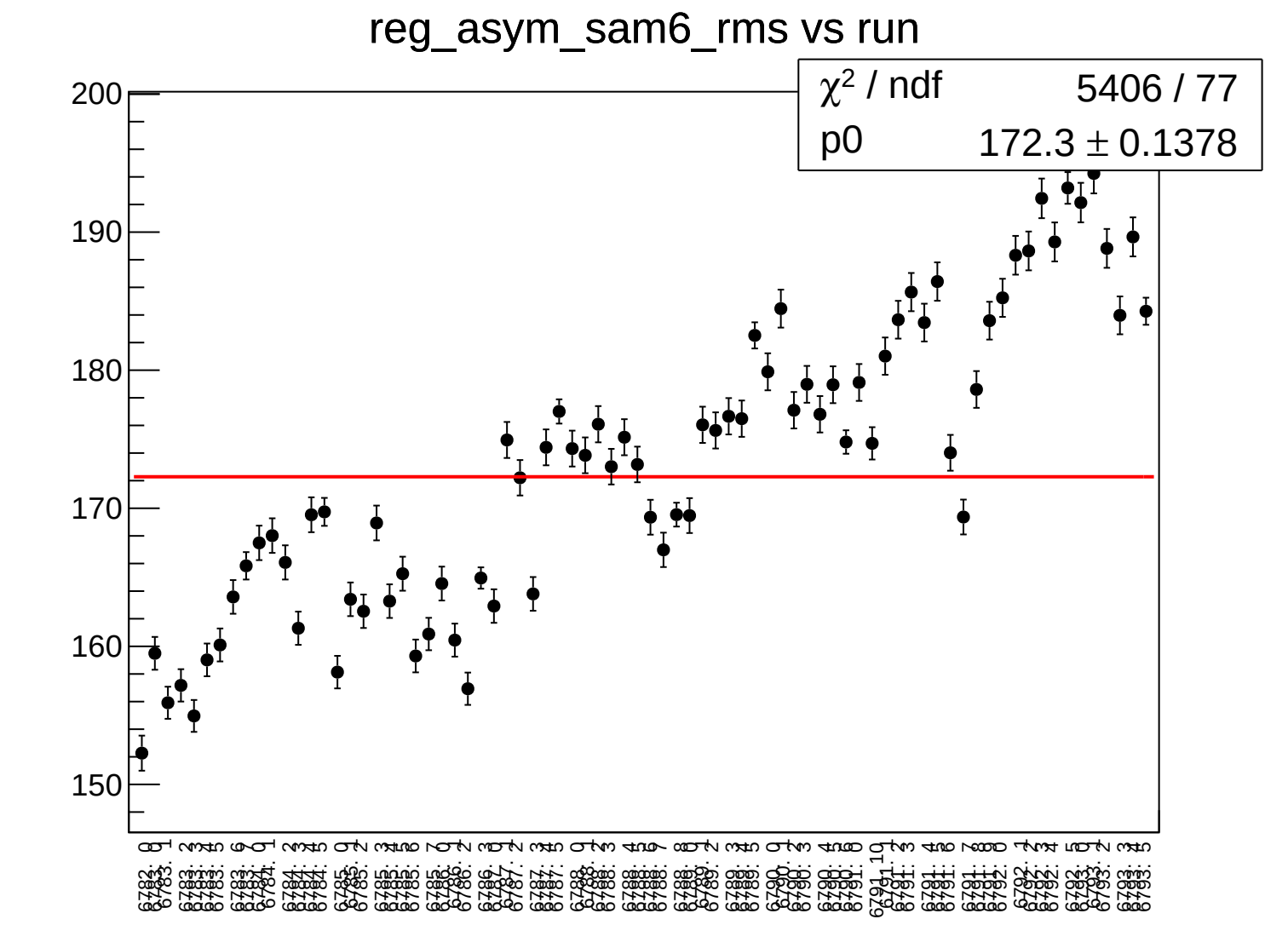

asym_sam5_correction_mean vs run
χ² / ndf 79.23 / 77
p0 −347.1± 1423
60000
40000
20000
0
−20000
−40000
pull
Entries 78
Mean −72.64
Std Dev 113
2
1
0
−1
−2

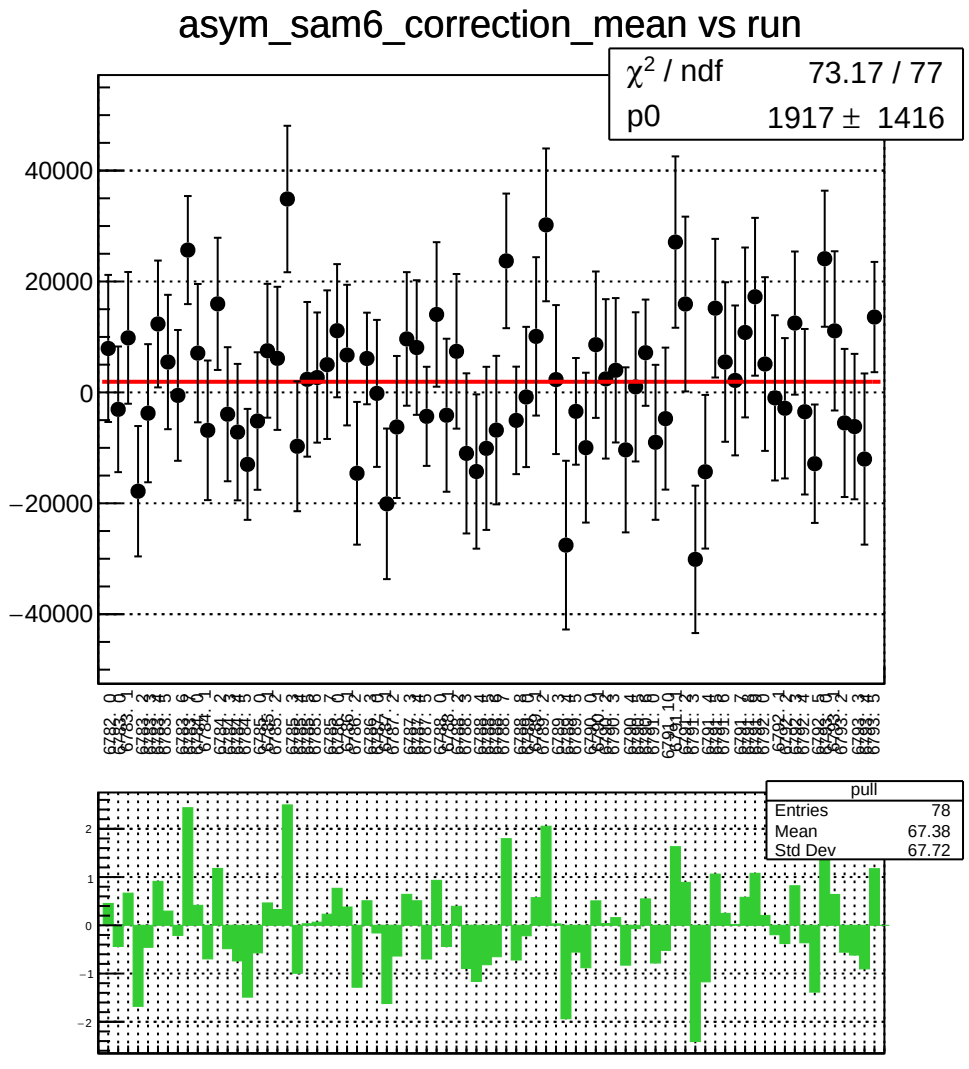

pull1D
Entries 78
Mean −0.0123
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

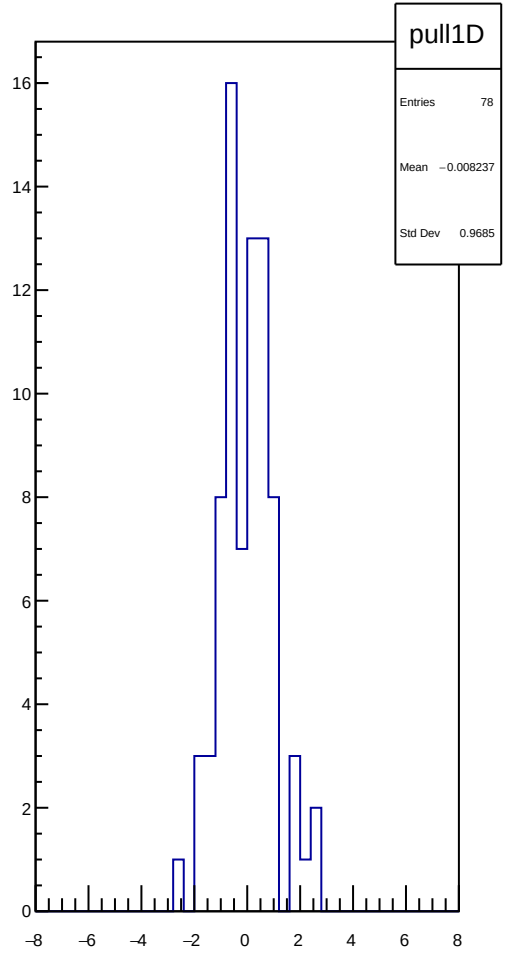

asym_sam5_correction_rms vs run
χ² / ndf 2.832e+04 / 77
p0 1249 ± 1.007
1700
1600
1500
1400
1300
1200
1100
1000
900

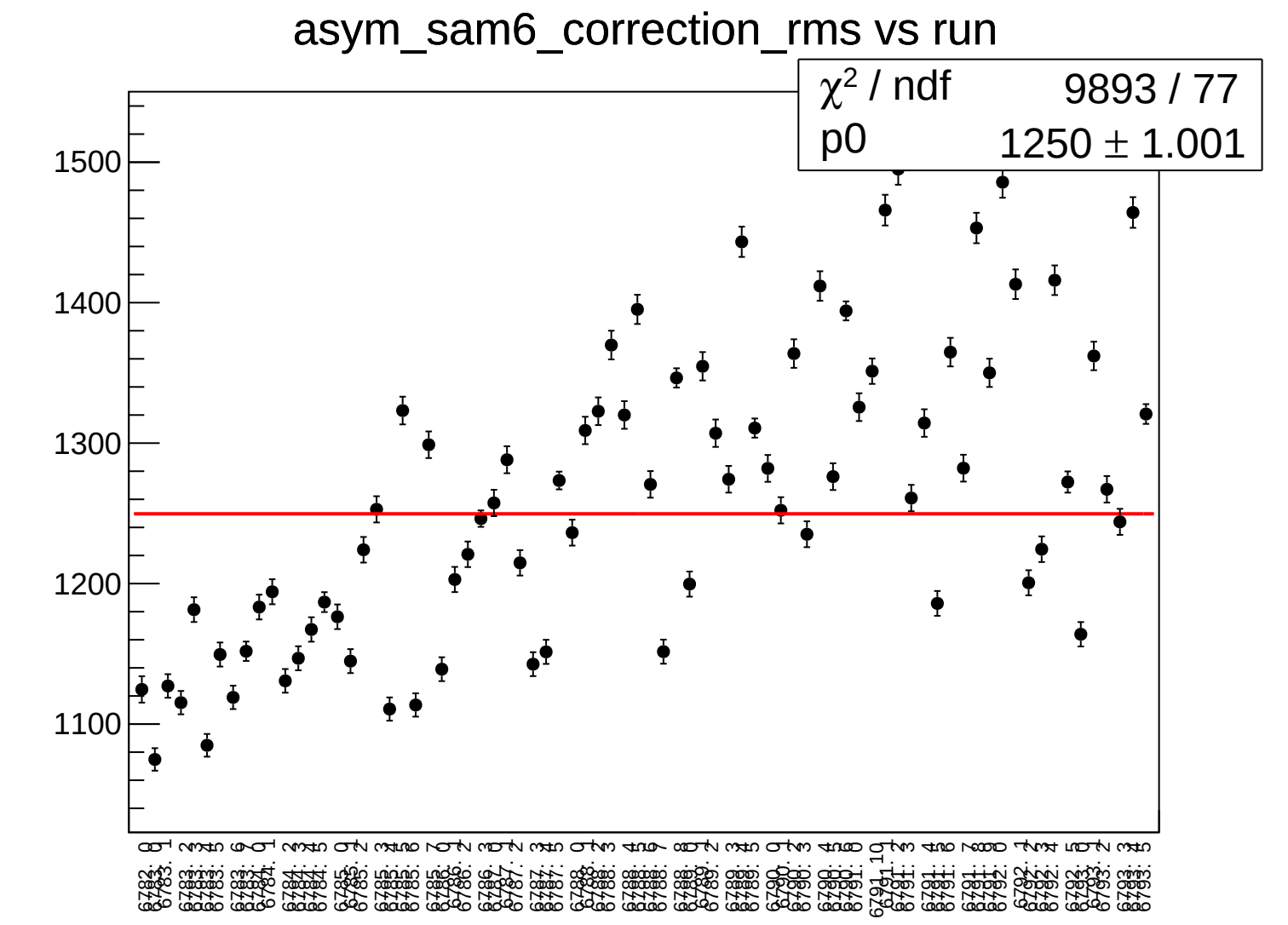

reg_asym_sam6_mean vs run
χ² / ndf 74.29 / 77
p0 178.7 ± 194.9
pull
Entries 78
Mean 44.93
Std Dev 47.42

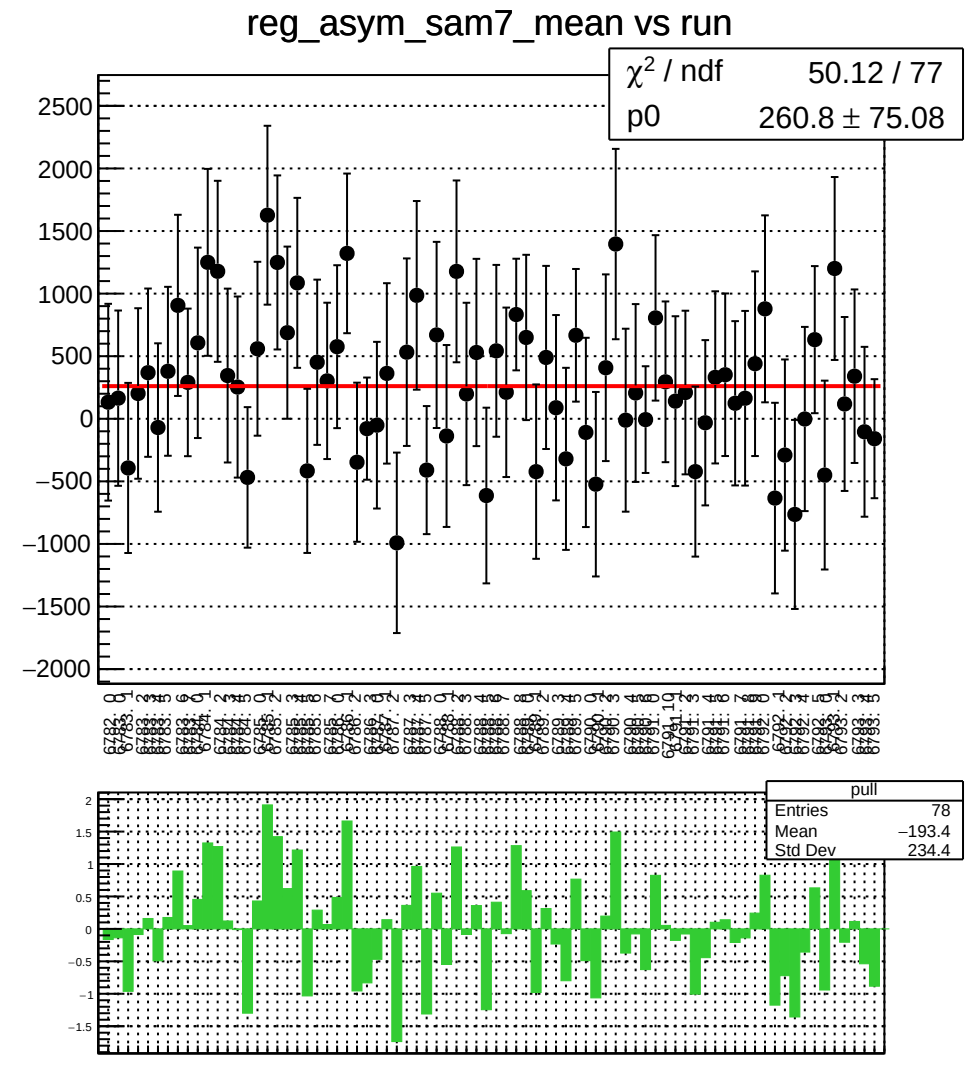

pull1D
Entries 78
Mean −0.03281
Std Dev 0.9754

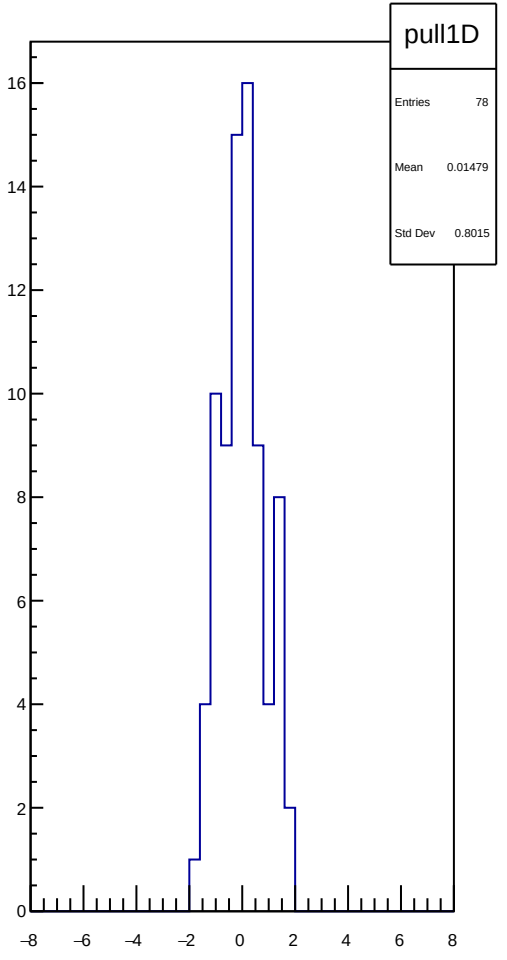

reg_asym_sam6_rms vs run
χ² / ndf 5406 / 77
p0 172.3 ± 0.1378
200
190
180
170
160
150

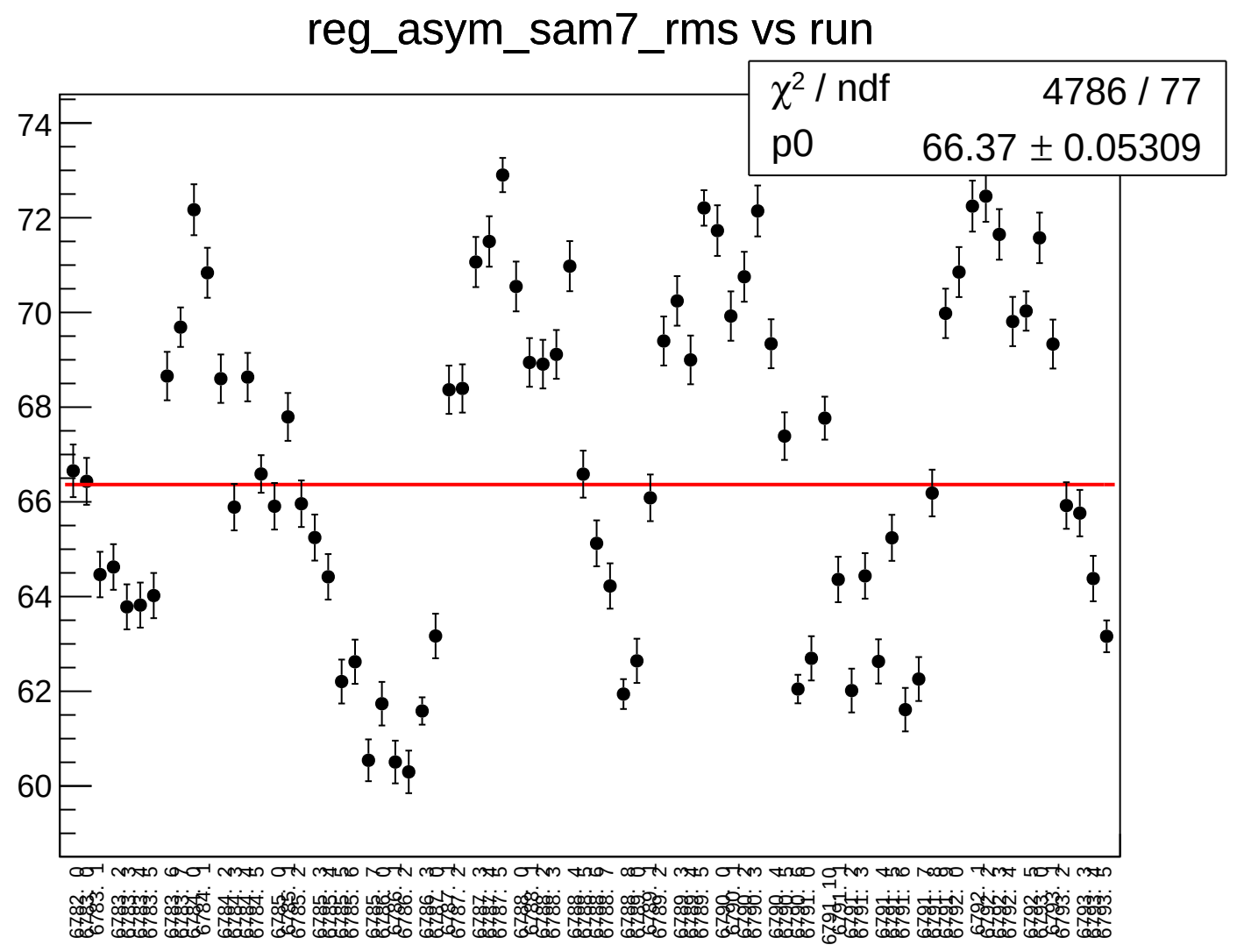

asym_sam6_correction_mean vs run
χ² / ndf 73.17 / 77
p0 1917 ± 1416
40000
20000
0
−20000
−40000
pull
Entries 78
Mean 67.38
Std Dev 67.72
2
1
0
−1
−2

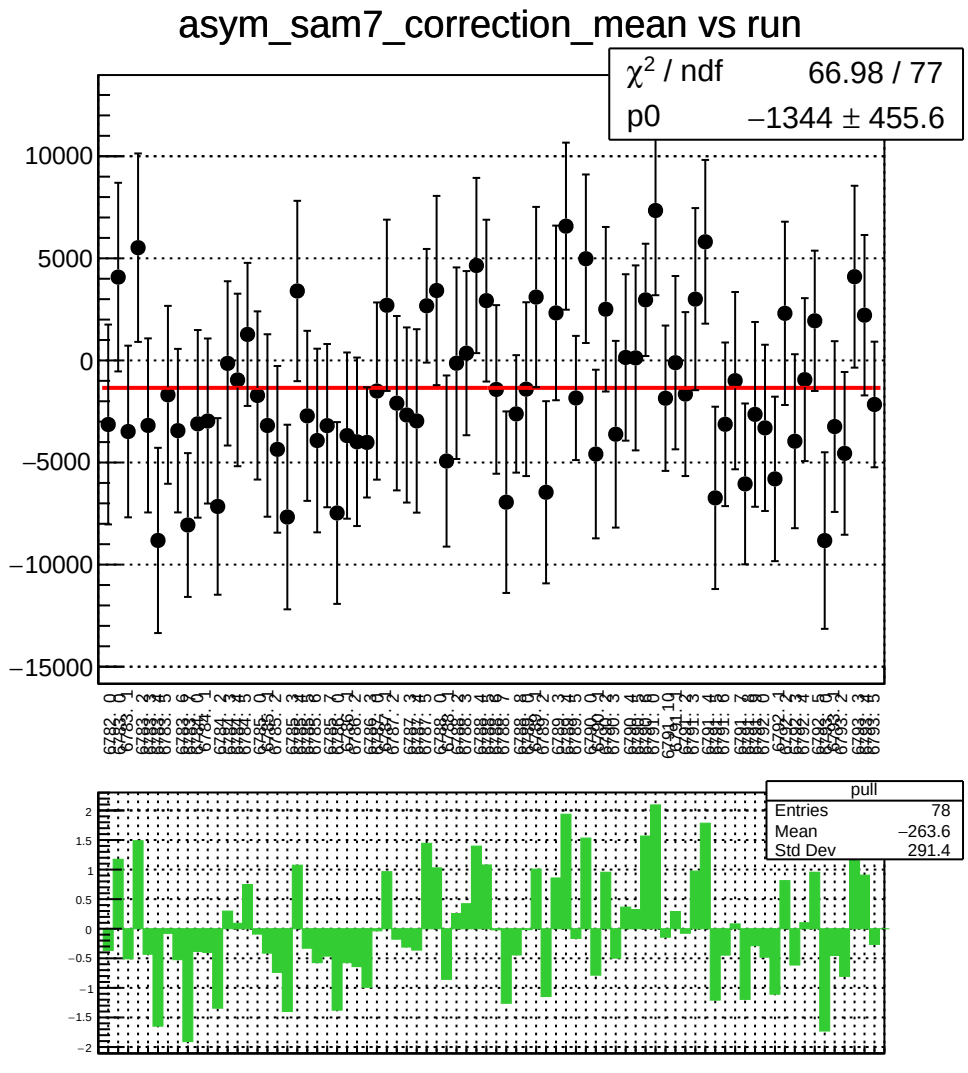

pull1D
Entries 78
Mean −0.008237
Std Dev 0.9685
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

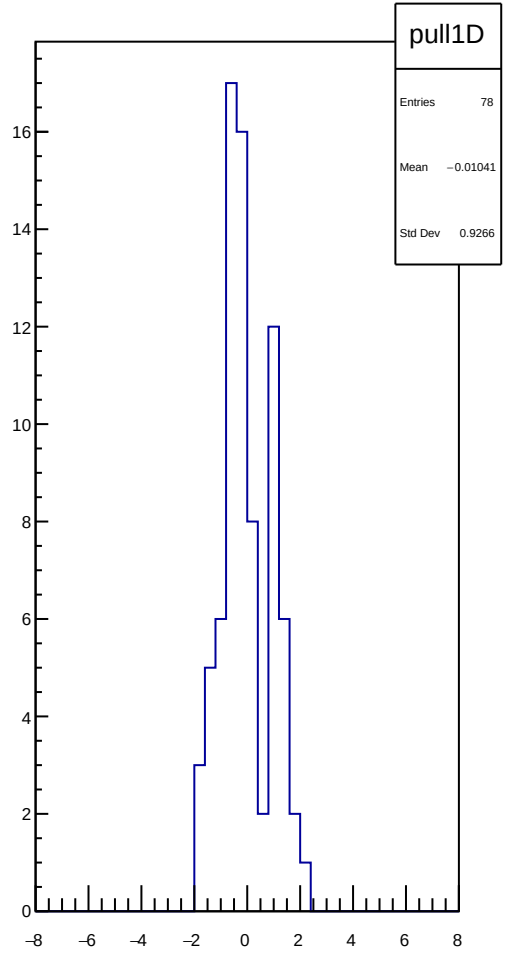

asym_sam6_correction_rms vs run
χ² / ndf 9893 / 77
p0 1250 ± 1.001
1500
1400
1300
1200
1100

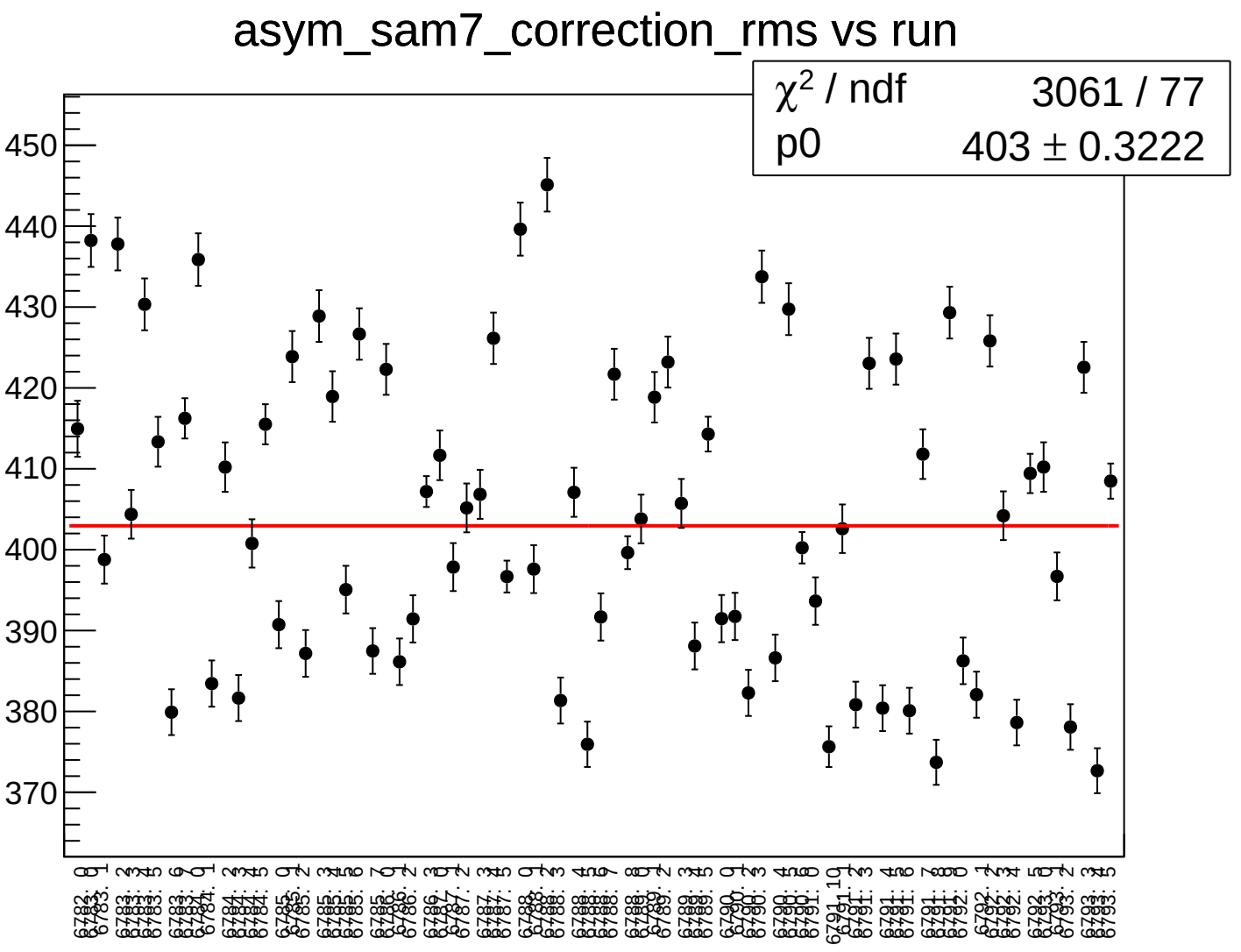

reg_asym_sam7_mean vs run
χ² / ndf 50.12 / 77
p0 260.8 ± 75.08
pull
Entries 78
Mean −193.4
Std Dev 234.4

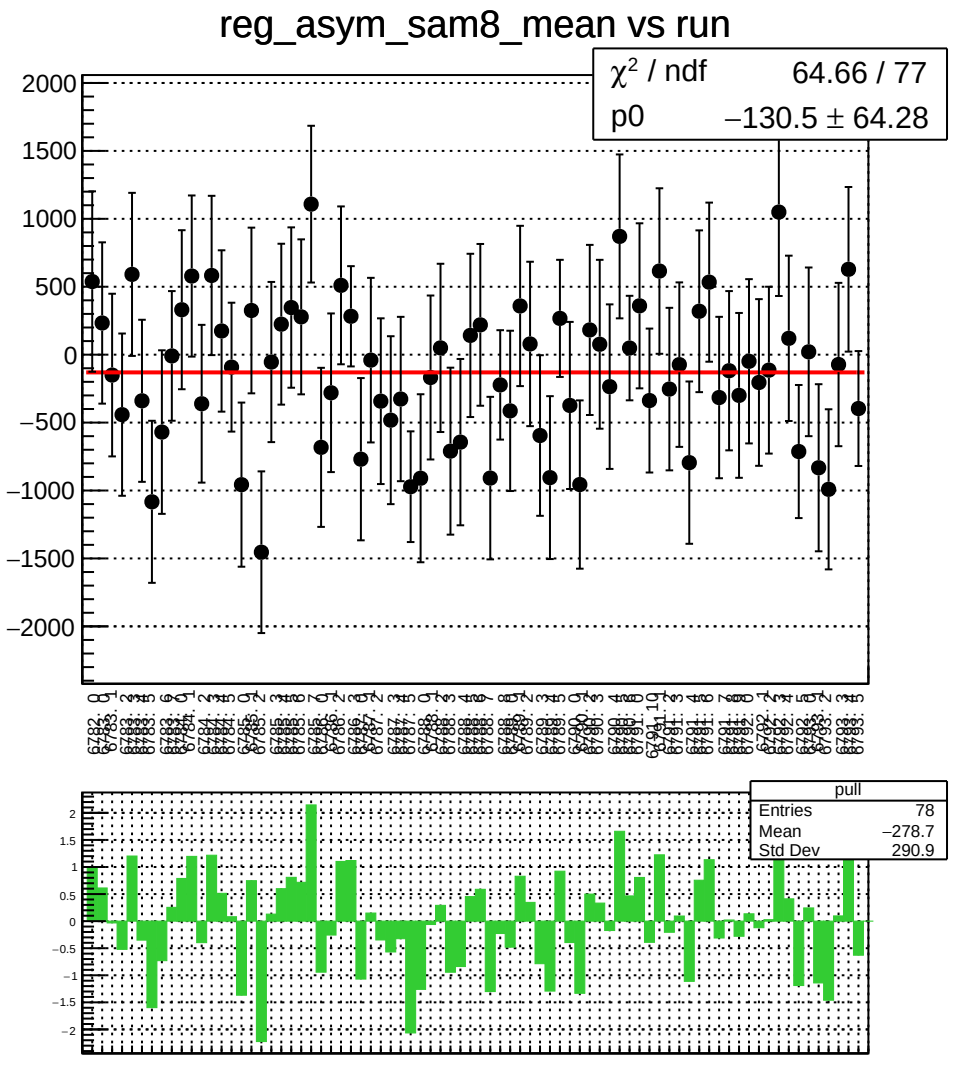

pull1D
Entries 78
Mean 0.01479
Std Dev 0.8015

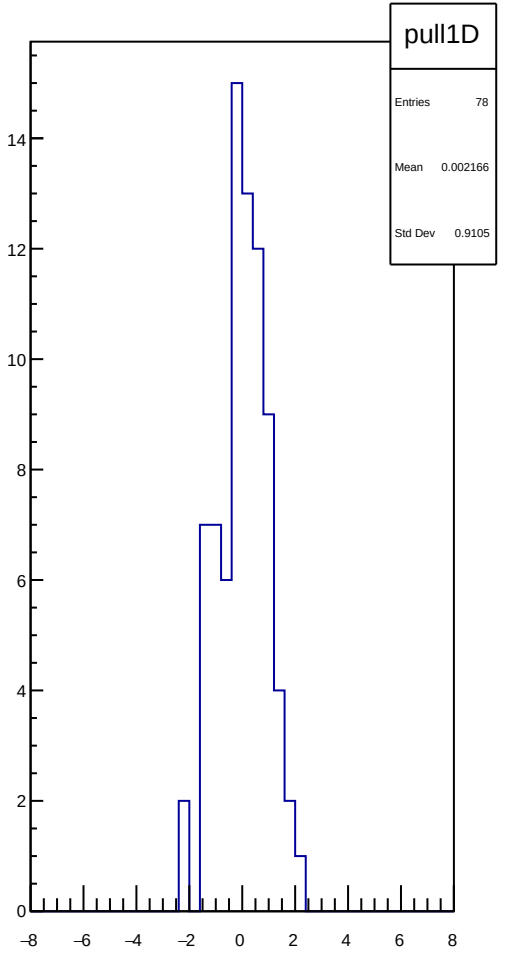

reg_asym_sam7_rms vs run
χ^2 / ndf 4786 / 77
p0 66.37 ± 0.05309
74
72
70
68
66
64
62
60

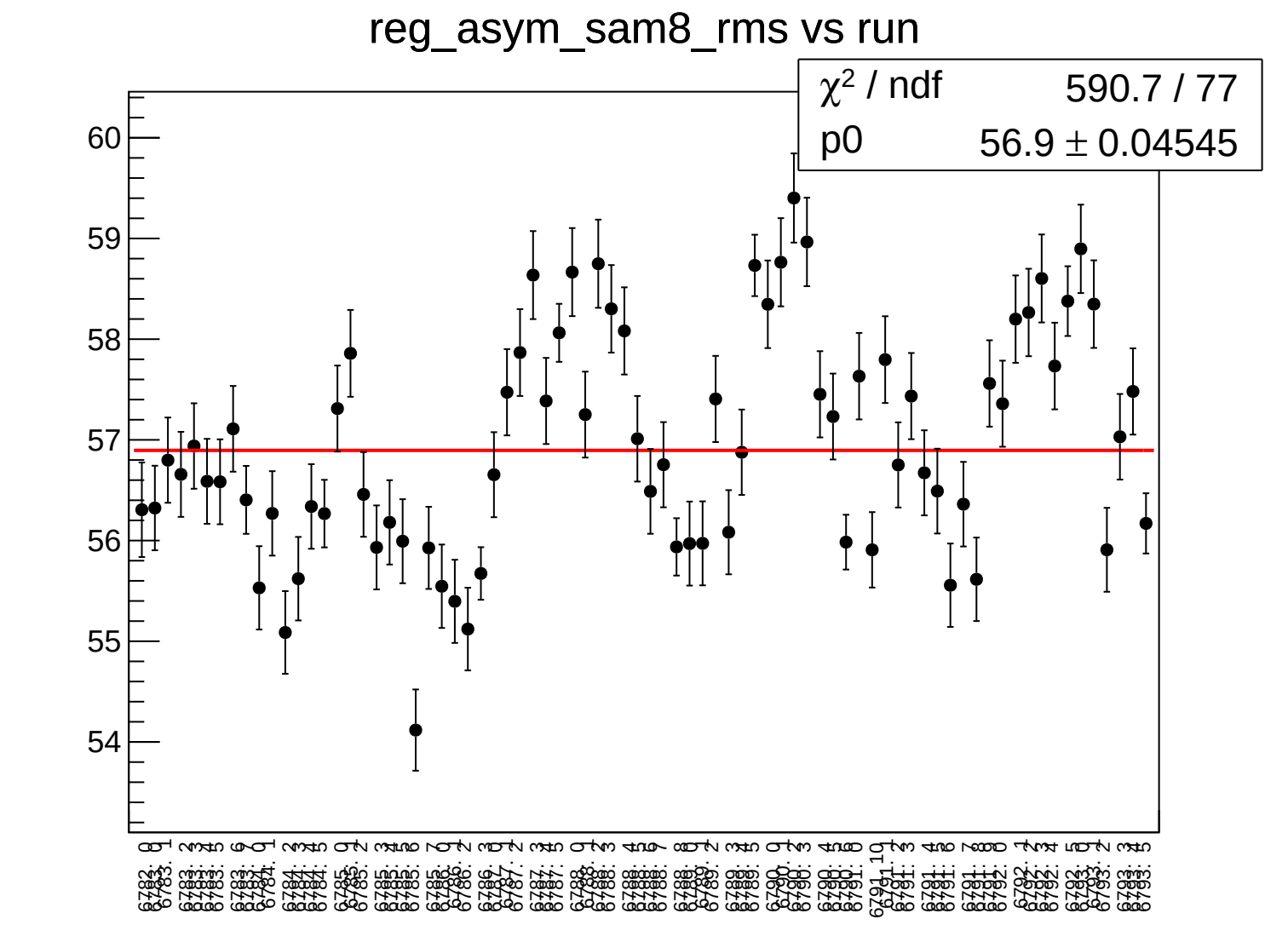

asym_sam7_correction_mean vs run
χ² / ndf 66.98 / 77
p0 −1344 ± 455.6
pull
Entries 78
Mean −263.6
Std Dev 291.4

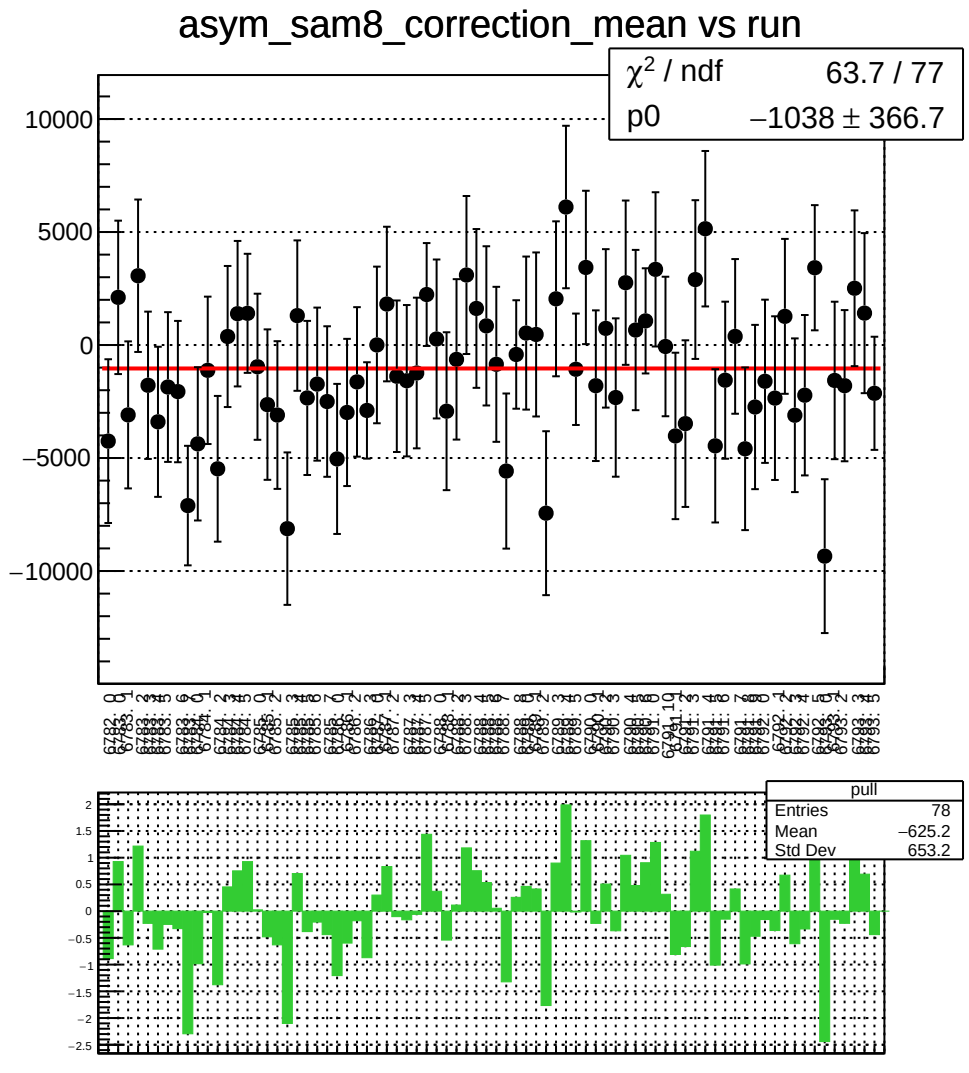

pull1D
Entries 78
Mean −0.01041
Std Dev 0.9266

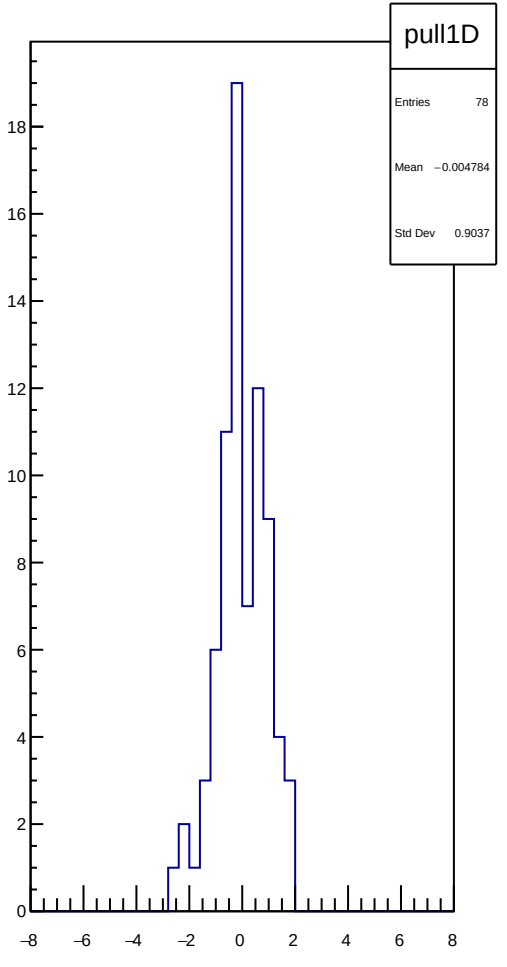

asym_sam7_correction_rms vs run
χ² / ndf 3061 / 77
p0 403 ± 0.3222
450
440
430
420
410
400
390
380
370

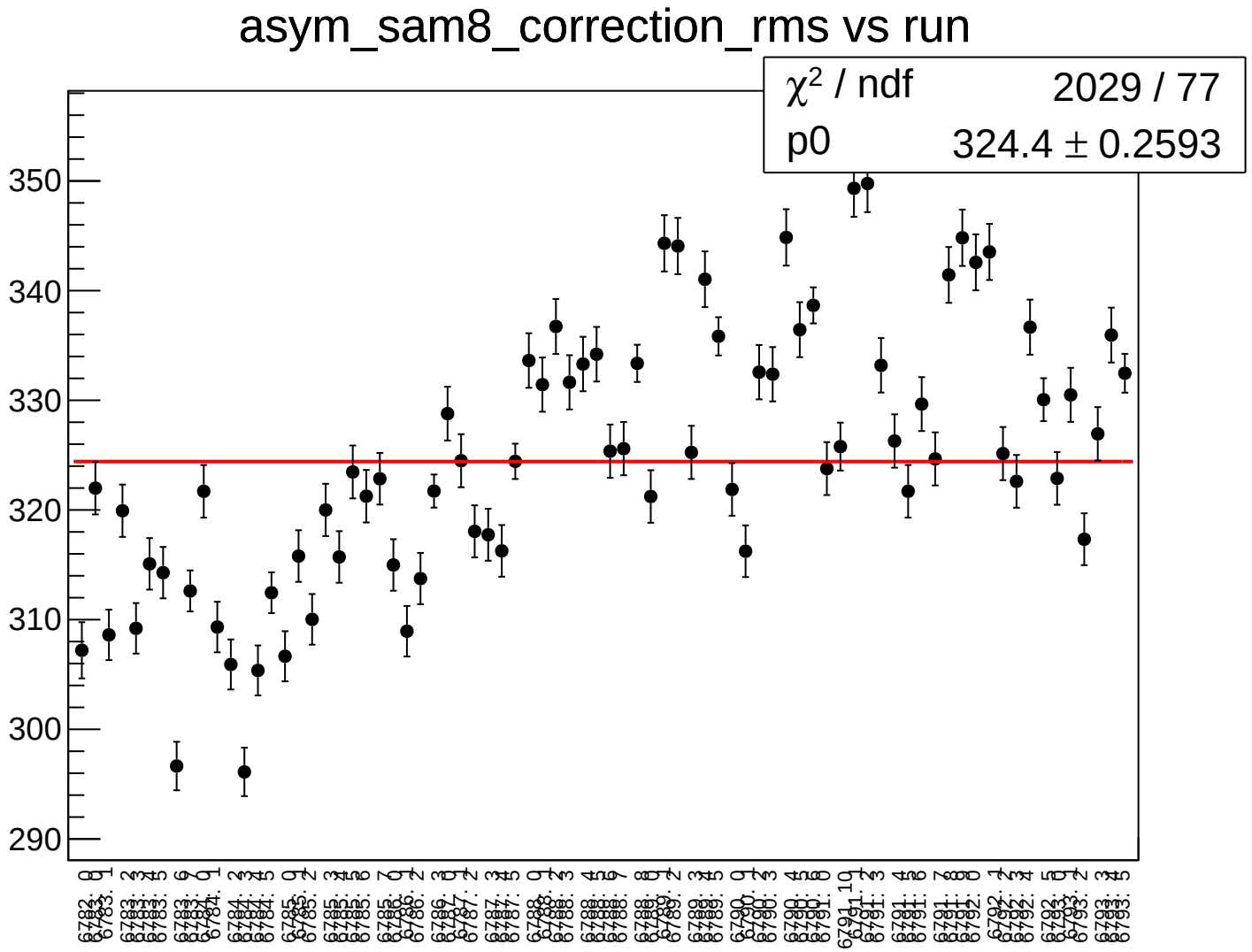

reg_asym_sam8_mean vs run
χ² / ndf 64.66 / 77
p0 −130.5 ± 64.28
pull
Entries 78
Mean −278.7
Std Dev 290.9

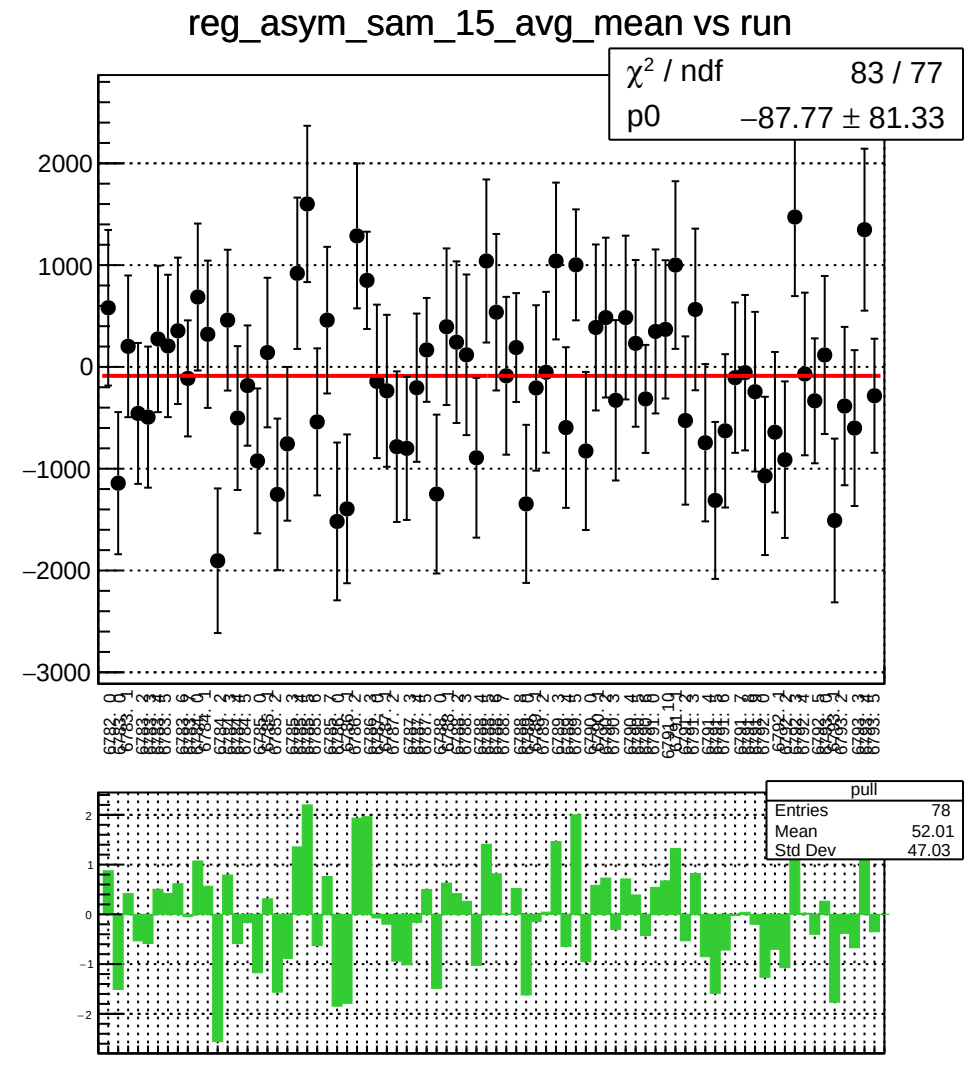

pull1D
Entries 78
Mean 0.002166
Std Dev 0.9105

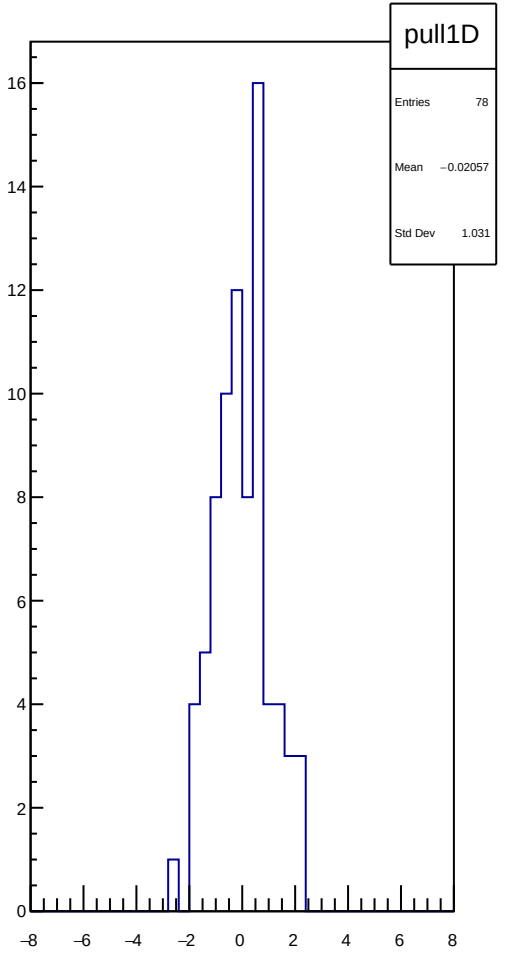

reg_asym_sam8_rms vs run
χ² / ndf 590.7 / 77
p0 56.9 ± 0.04545
60
59
58
57
56
55
54

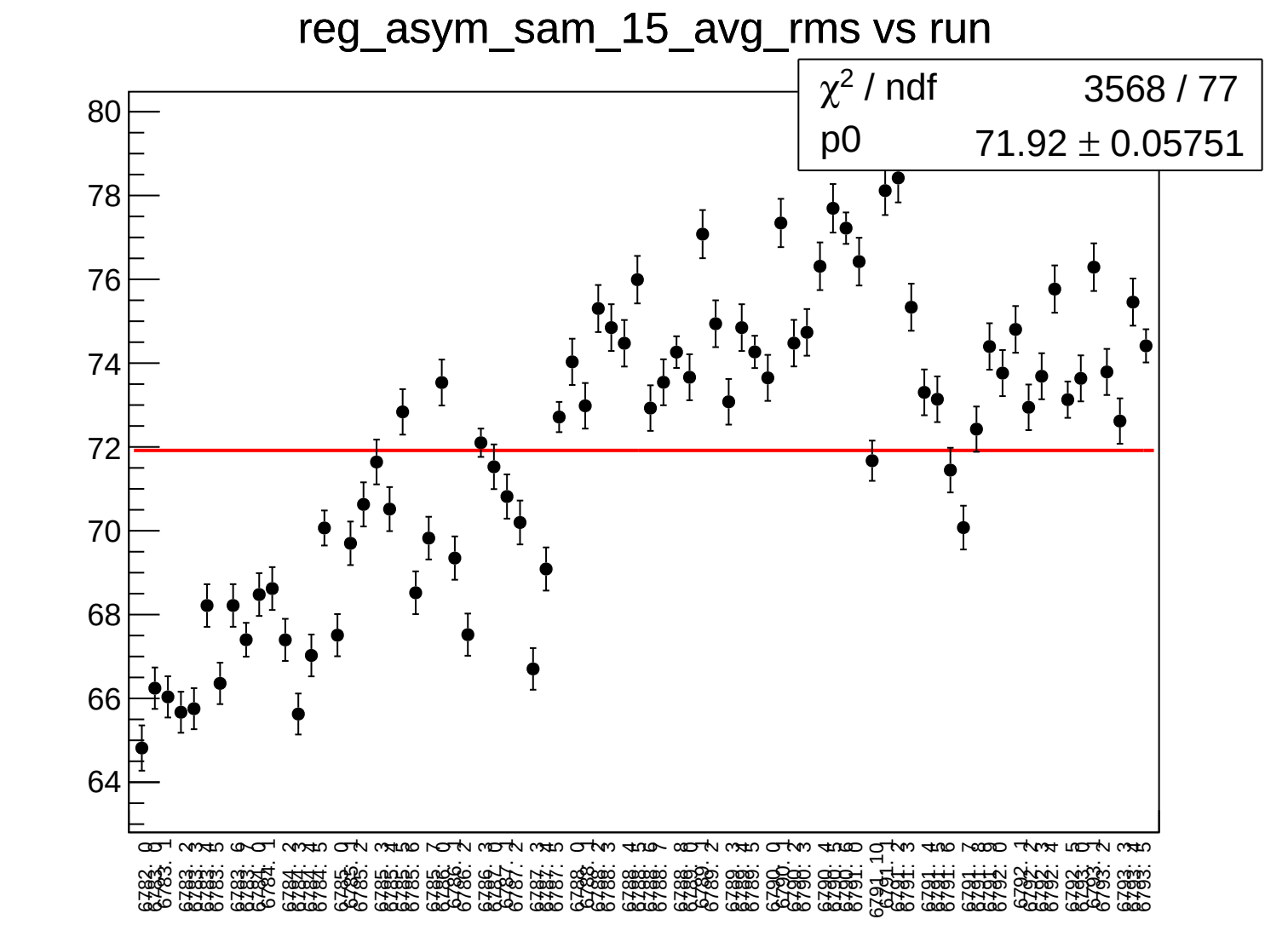

asym_sam8_correction_mean vs run
χ² / ndf 63.7 / 77
p0 −1038 ± 366.7
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −625.2
Std Dev 653.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

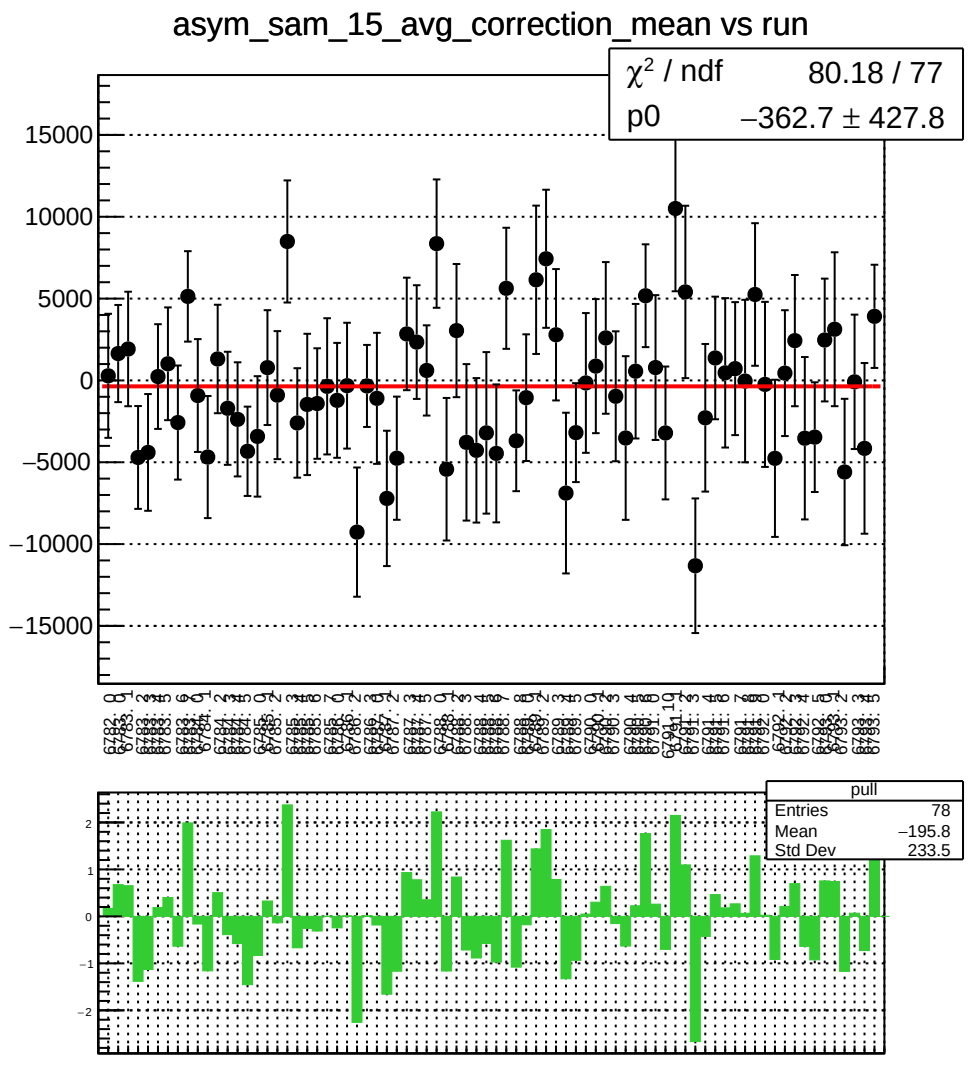

pull1D
Entries 78
Mean −0.004784
Std Dev 0.9037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

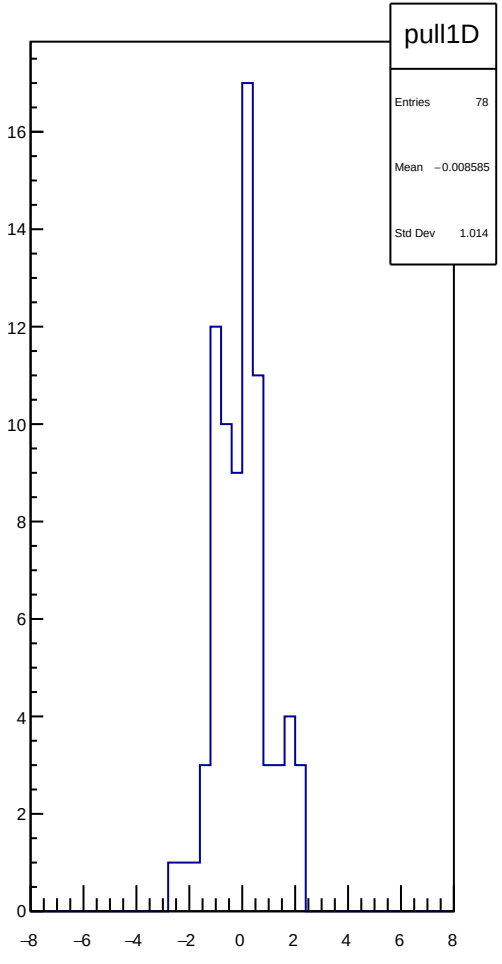

asym_sam8_correction_rms vs run
χ² / ndf 2029 / 77
p0 324.4 ± 0.2593
350
340
330
320
310
300
290

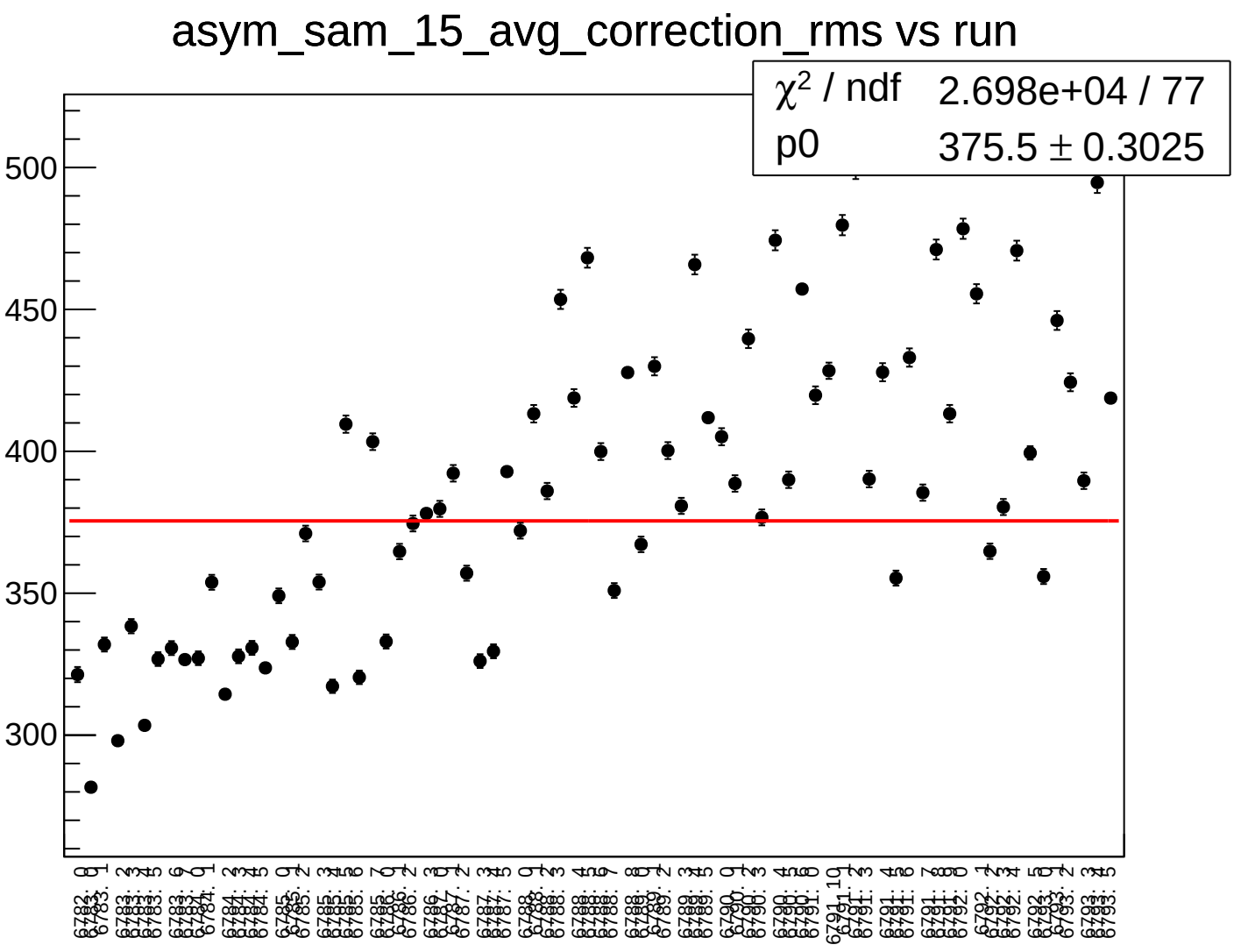

reg_asym_sam_15_avg_mean vs run
χ² / ndf 83 / 77
p0 −87.77 ± 81.33
pull
Entries 78
Mean 52.01
Std Dev 47.03

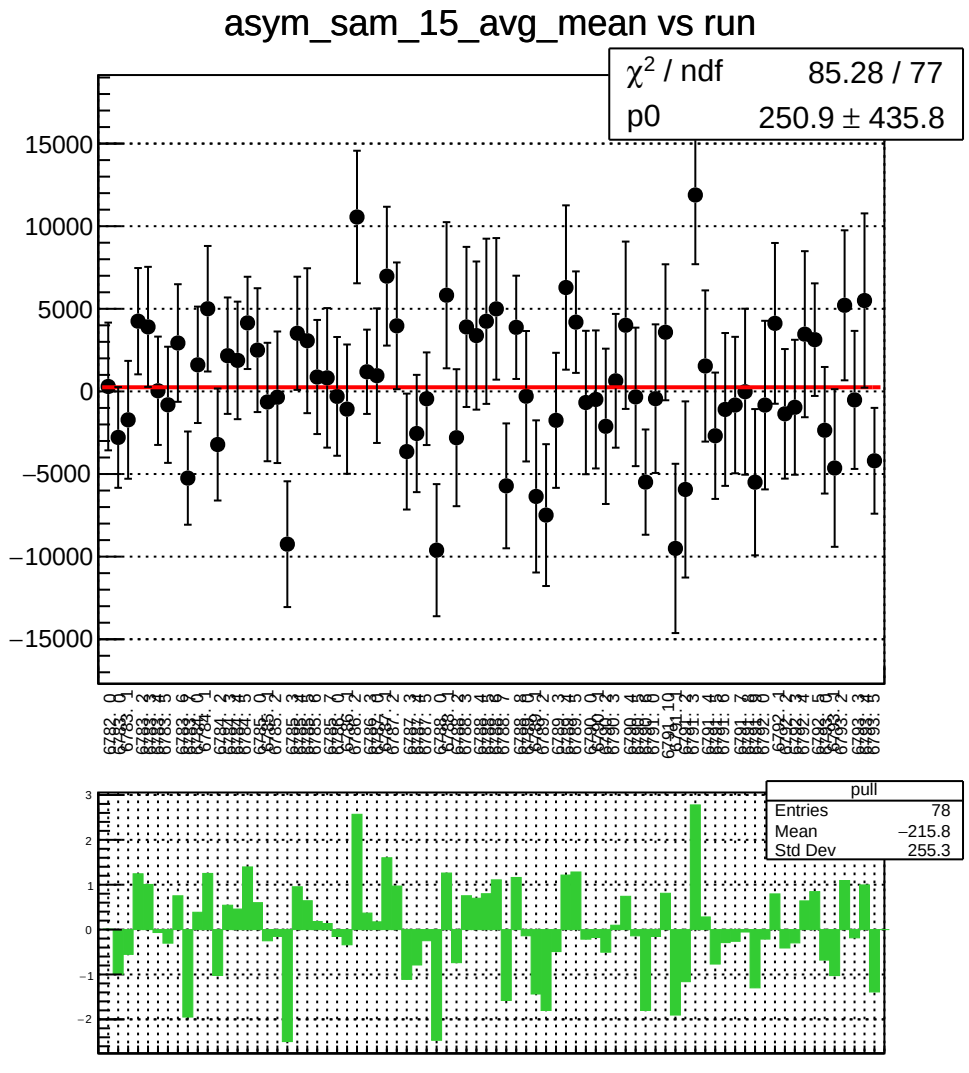

pull1D
Entries 78
Mean −0.02057
Std Dev 1.031

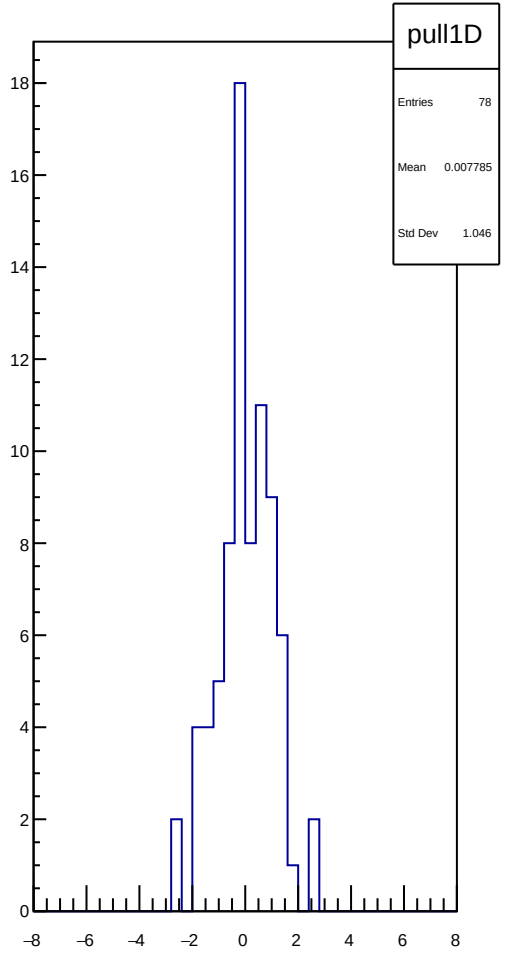

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 3568 / 77
p0 71.92 ± 0.05751
80
78
76
74
72
70
68
66
64

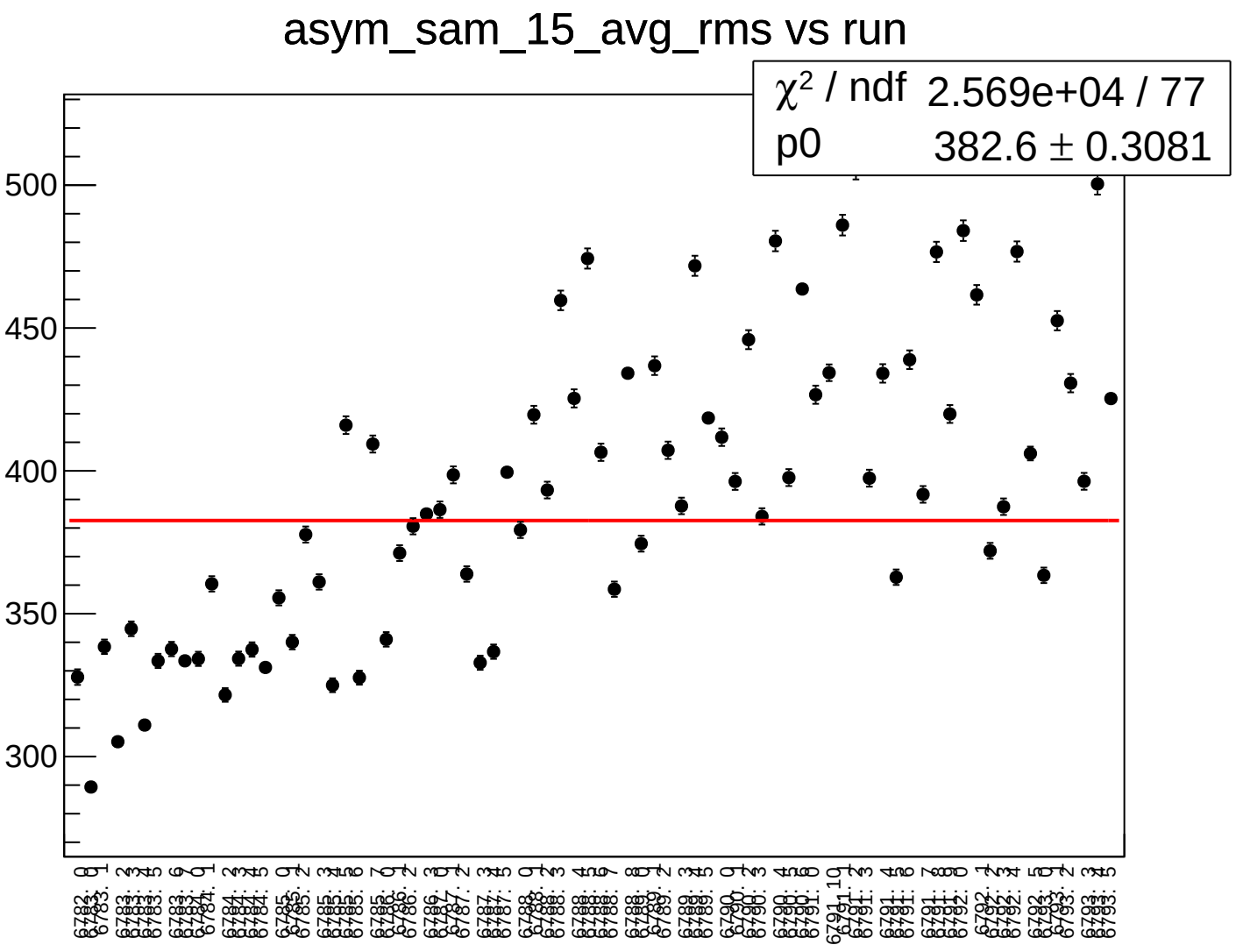

asym_sam_15_avg_correction_mean vs run
χ² / ndf 80.18 / 77
p0 −362.7 ± 427.8
pull
Entries 78
Mean −195.8
Std Dev 233.5

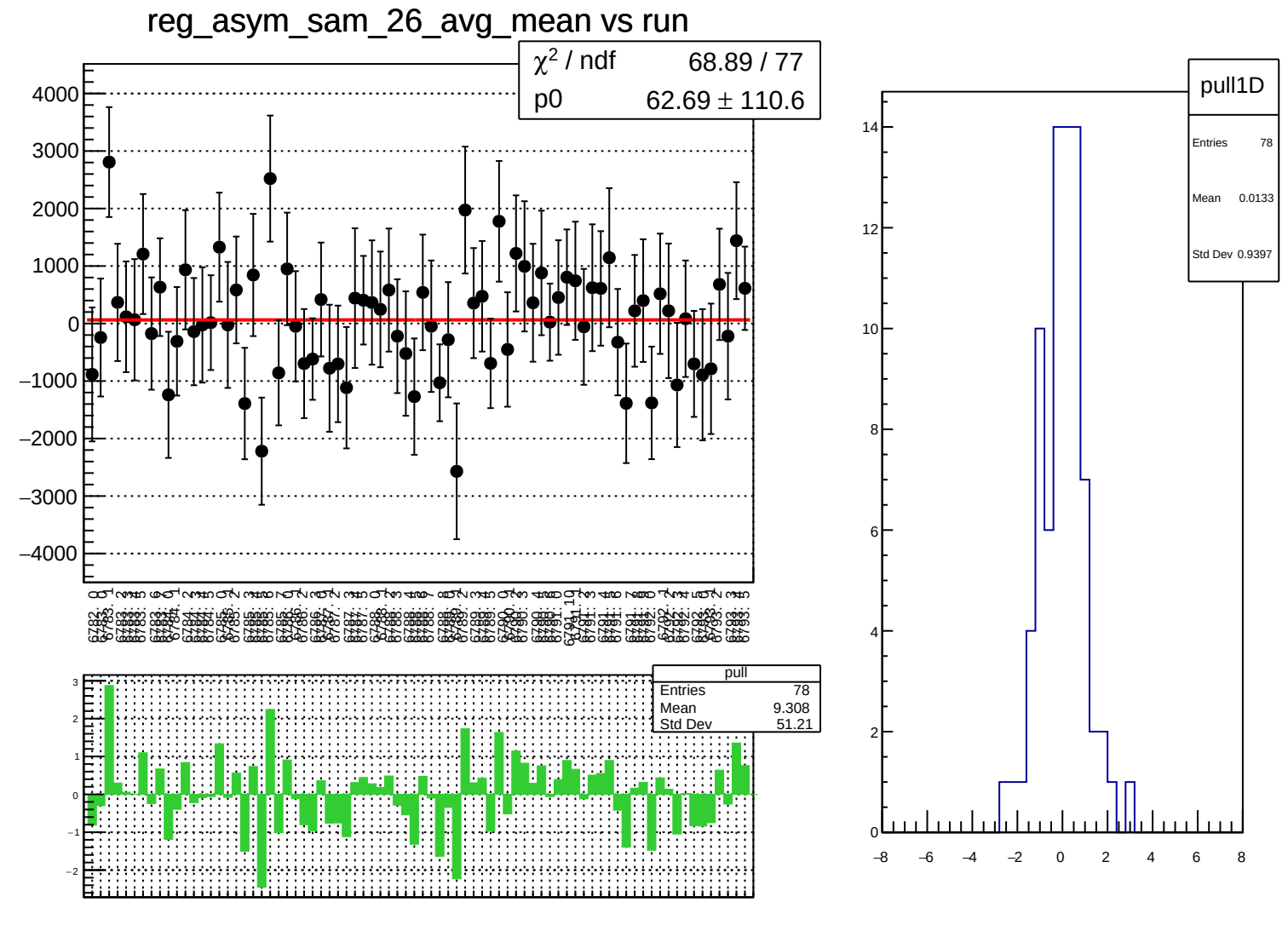

pull1D
Entries 78
Mean −0.008585
Std Dev 1.014

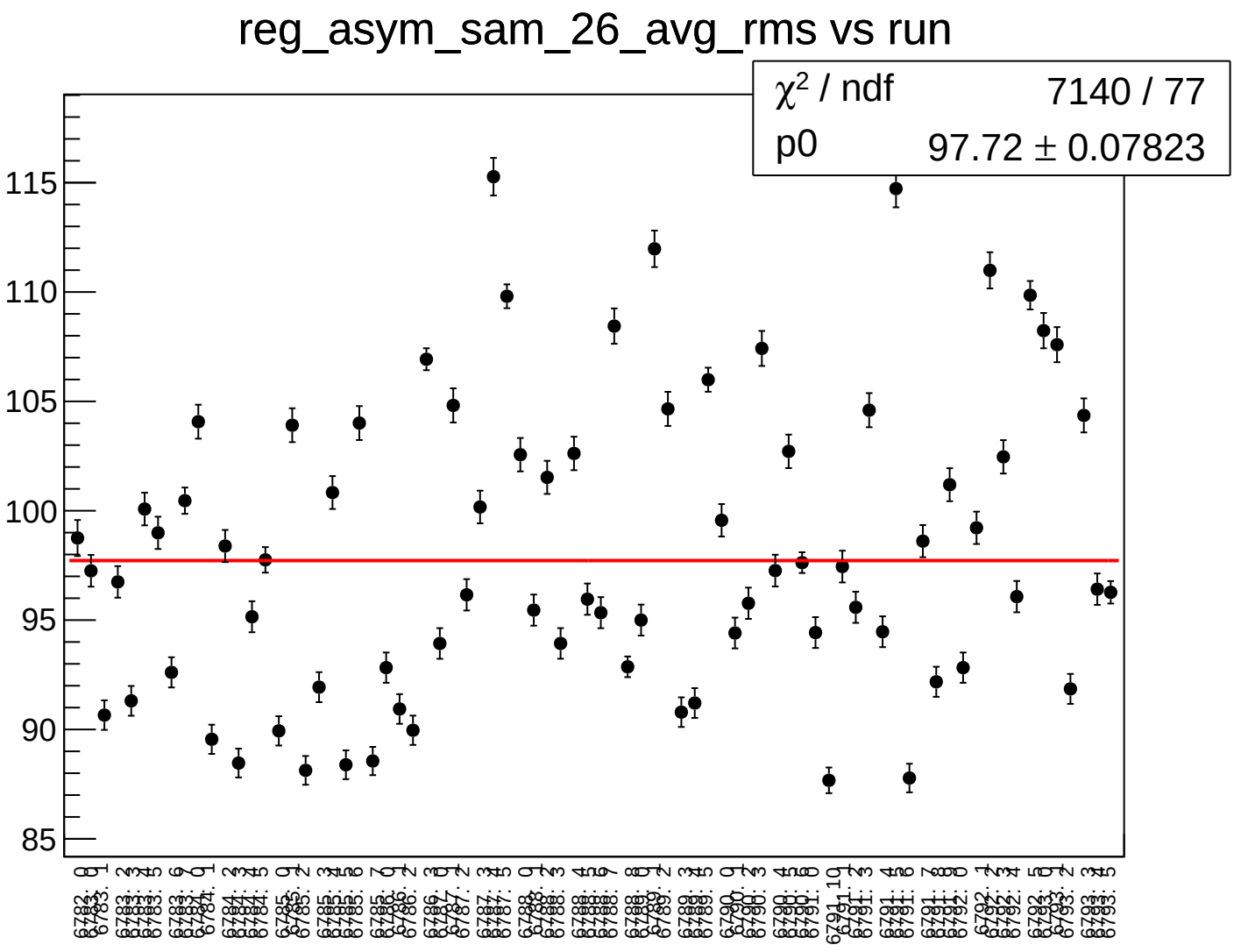

asym_sam_15_avg_correction_rms vs run
χ^2 / ndf 2.698e+04 / 77
p0 375.5 ± 0.3025
500
450
400
350
300

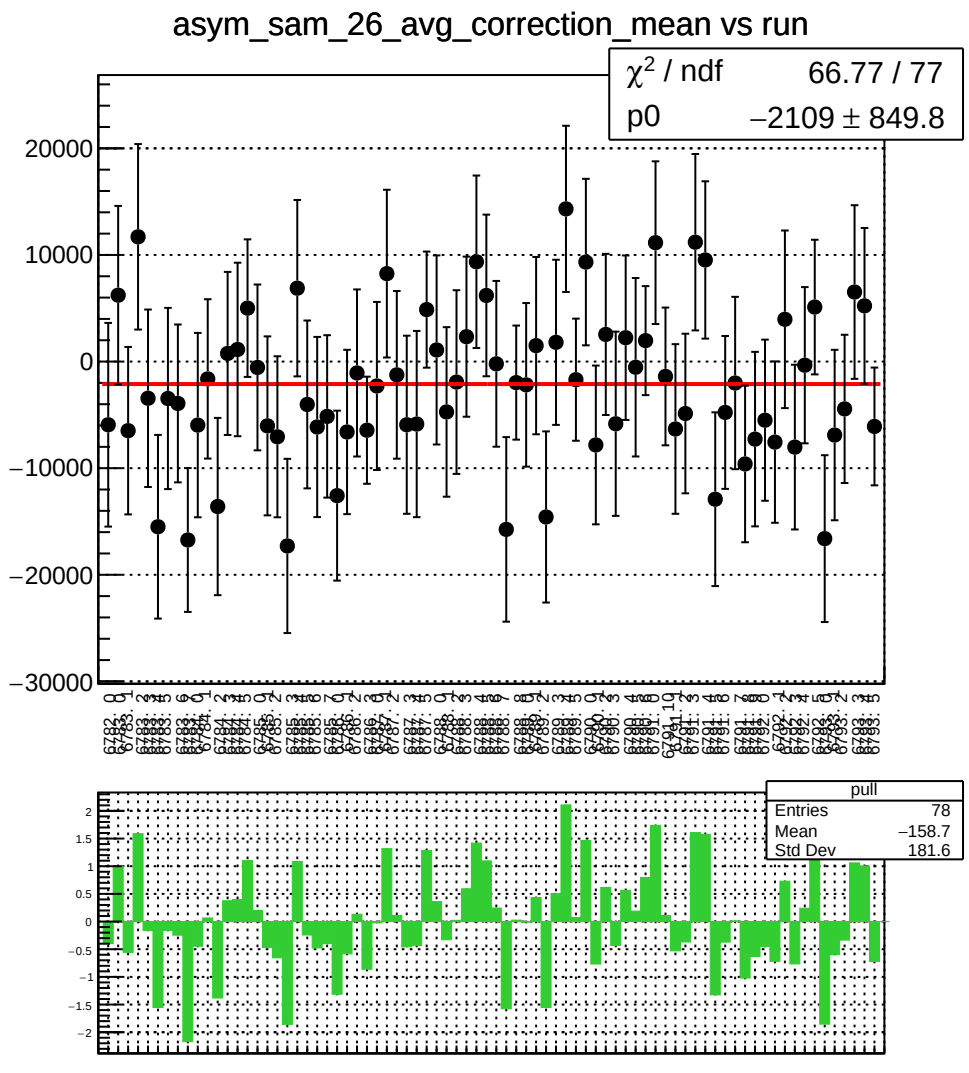

asym_sam_15_avg_mean vs run
χ² / ndf 85.28 / 77
p0 250.9 ± 435.8
pull
Entries 78
Mean −215.8
Std Dev 255.3

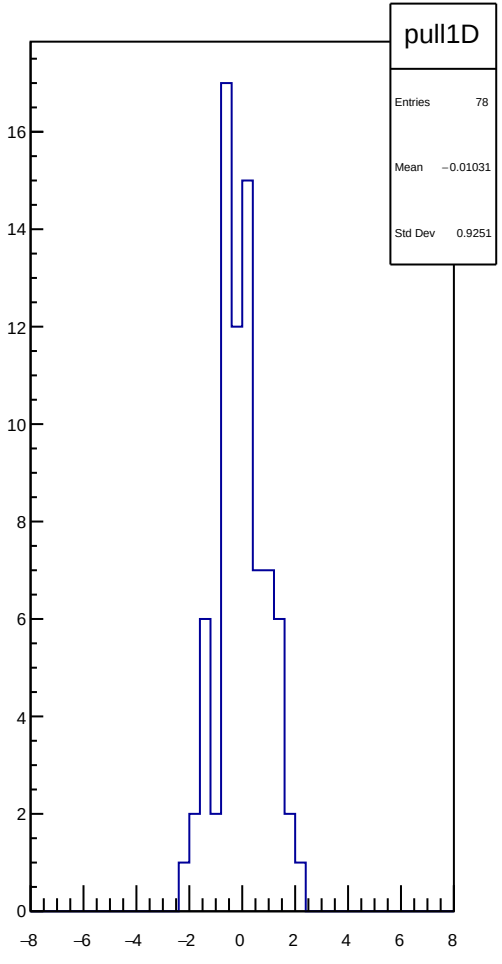

pull1D
Entries 78
Mean 0.007785
Std Dev 1.046

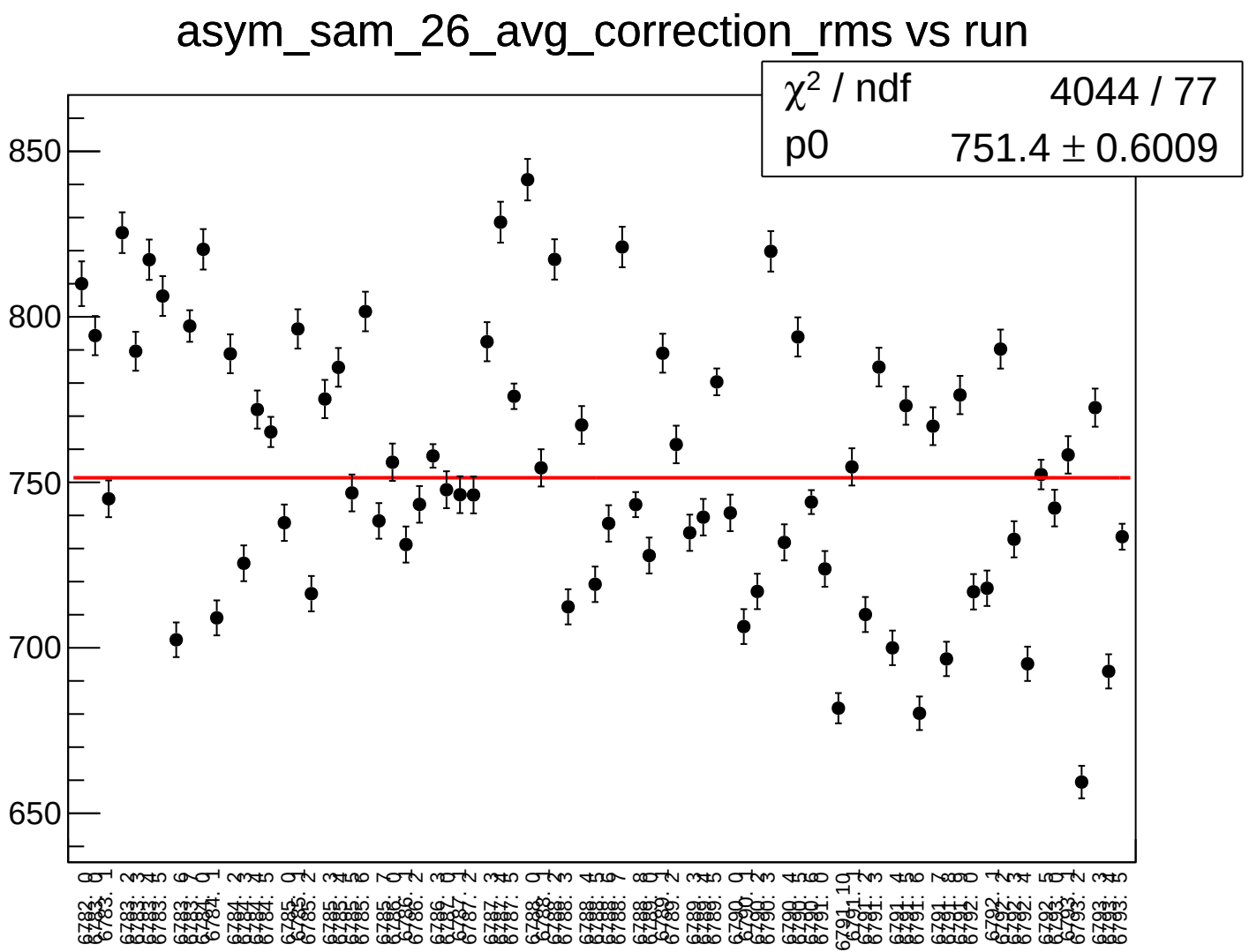

asym_sam_15_avg_rms vs run
χ² / ndf 2.569e+04 / 77
p0 382.6 ± 0.3081
500
450
400
350
300

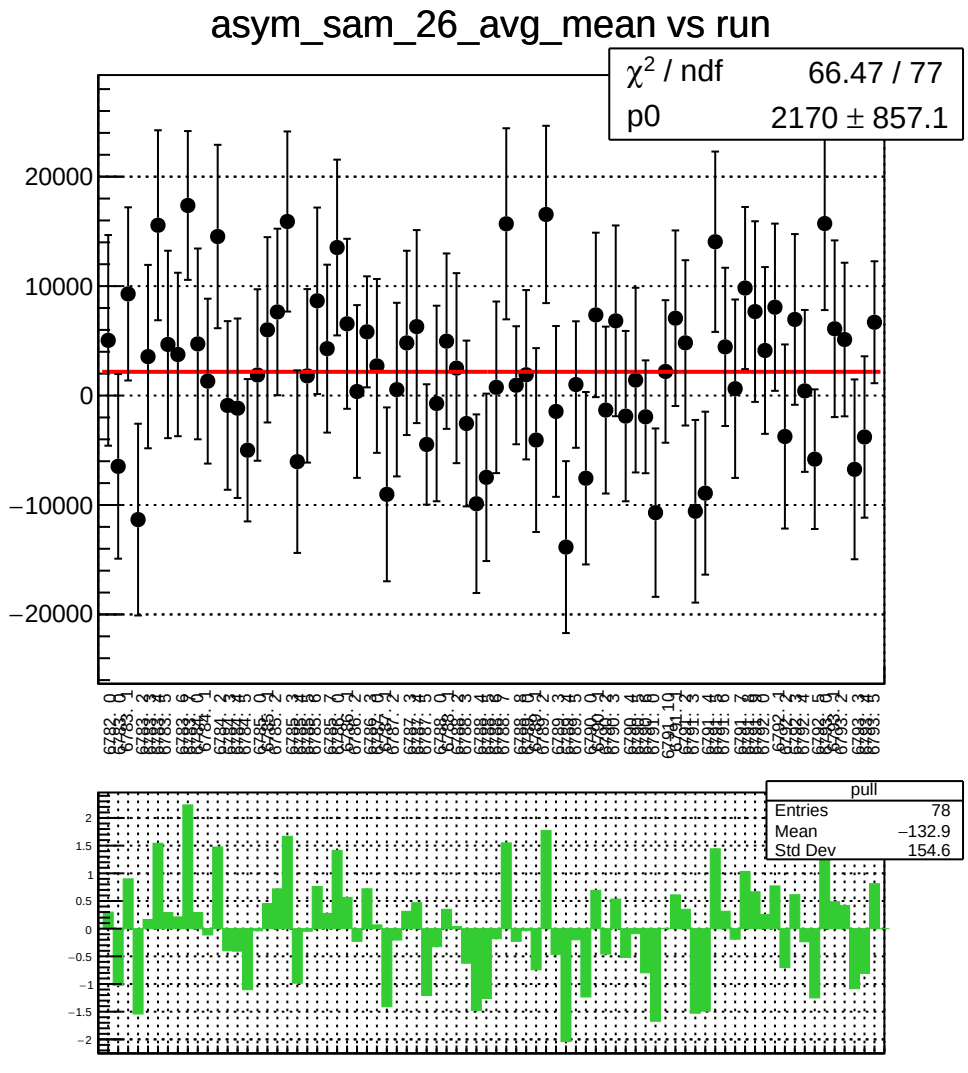

reg_asym_sam_26_avg_mean vs run
χ² / ndf 68.89 / 77
p0 62.69 ± 110.6
pull
Entries 78
Mean 9.308
Std Dev 51.21
pull1D
Entries 78
Mean 0.0133
Std Dev 0.9397

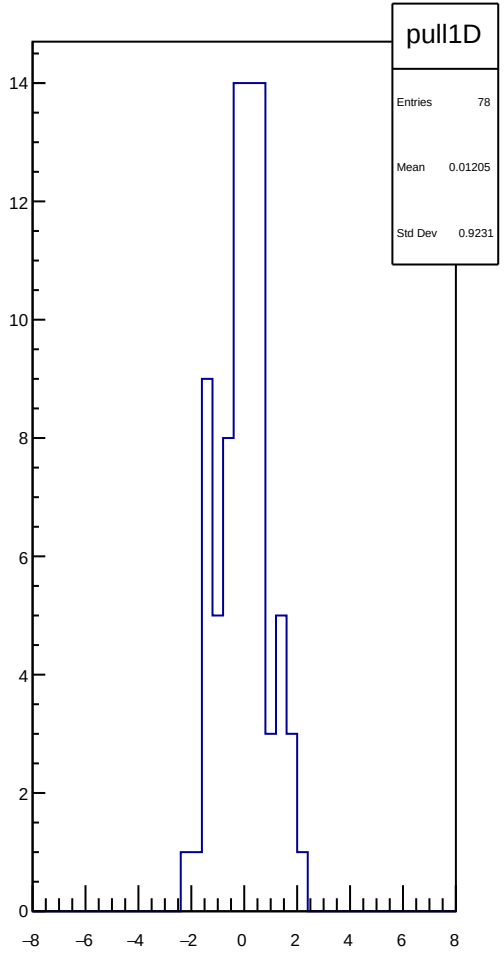

reg_asym_sam_26_avg_rms vs run
χ² / ndf 7140 / 77
p0 97.72 ± 0.07823
115
110
105
100
95
90
85

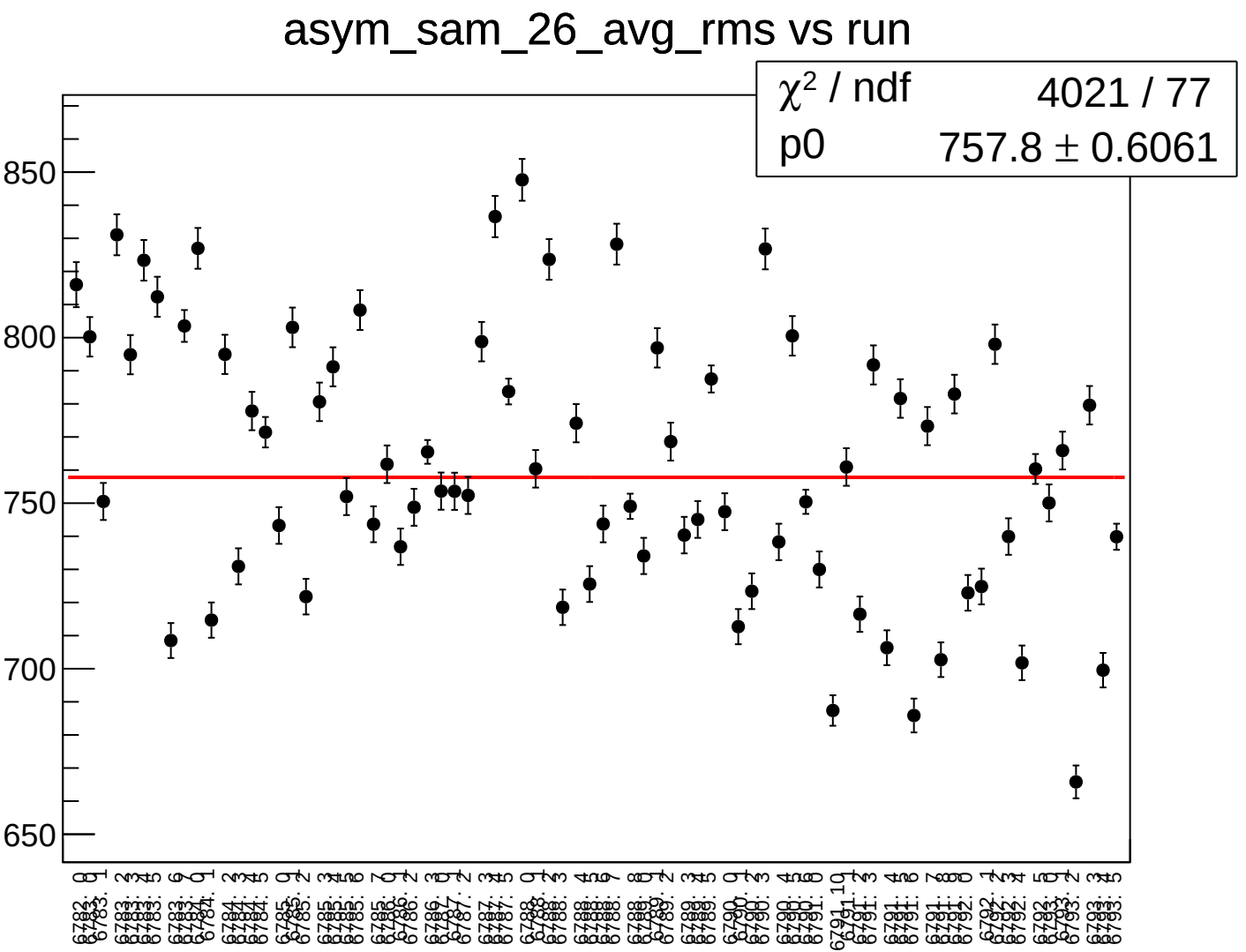

asym_sam_26_avg_correction_mean vs run
χ² / ndf 66.77 / 77
p0 −2109 ± 849.8
pull
Entries 78
Mean −158.7
Std Dev 181.6

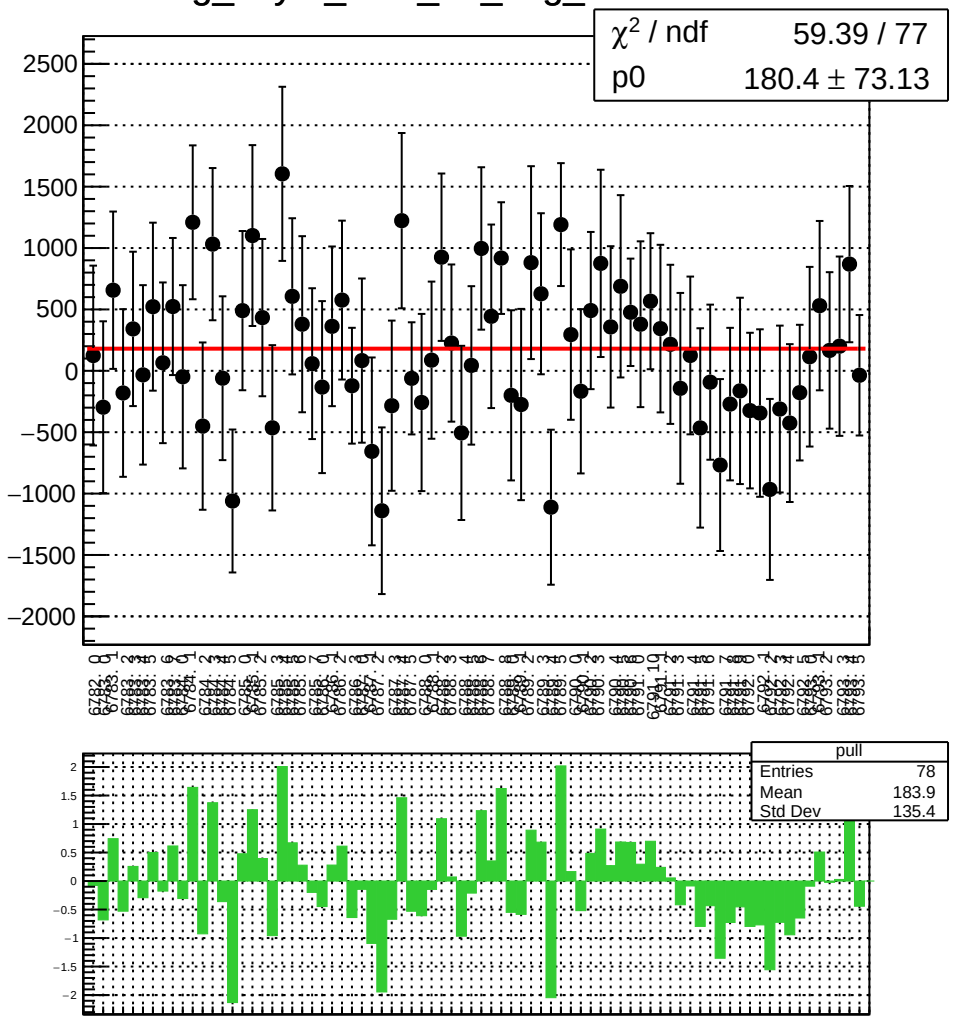

pull1D
Entries 78
Mean −0.01031
Std Dev 0.9251

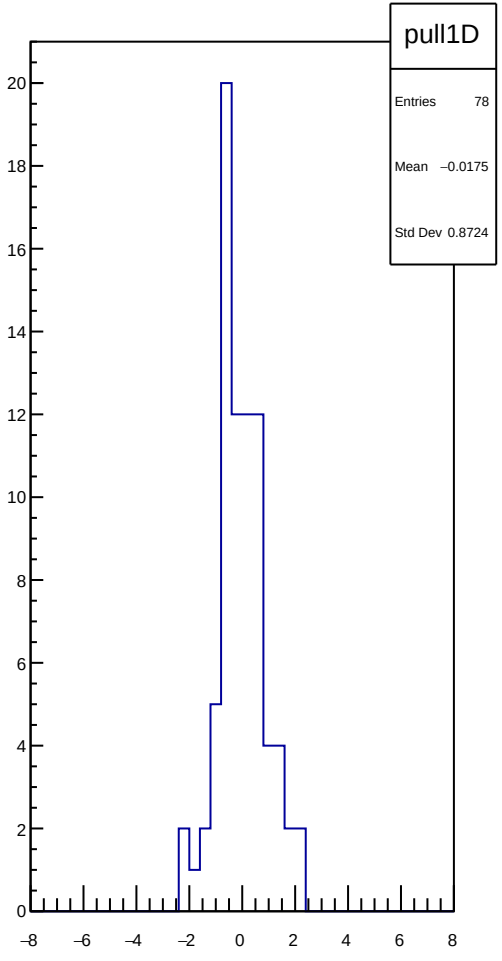

asym_sam_26_avg_correction_rms vs run
χ² / ndf 4044 / 77
p0 751.4 ± 0.6009
850
800
750
700
650

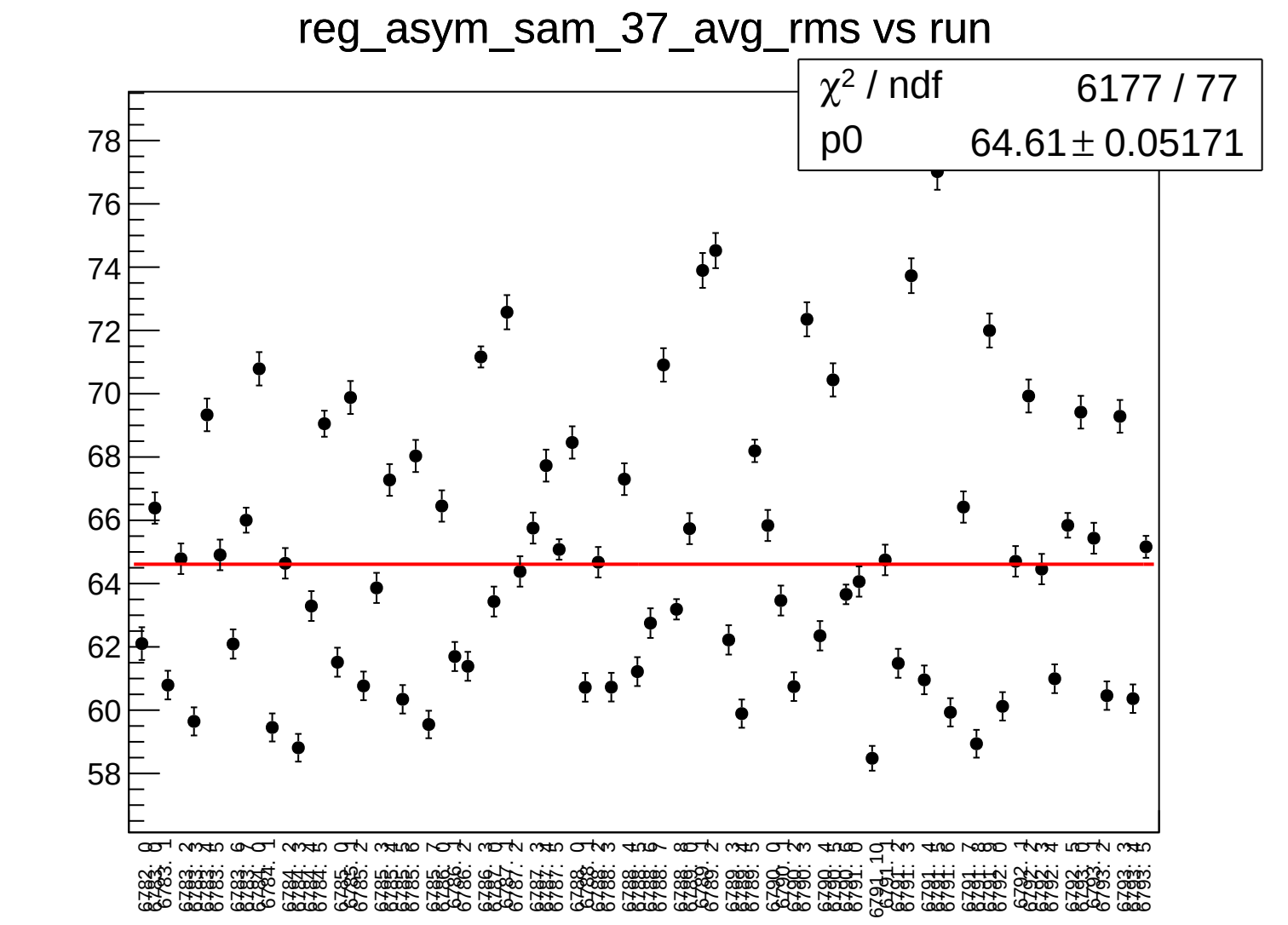

asym_sam_26_avg_mean vs run
χ² / ndf 66.47 / 77
p0 2170 ± 857.1
20000
10000
0
−10000
−20000
pull
Entries 78
Mean −132.9
Std Dev 154.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

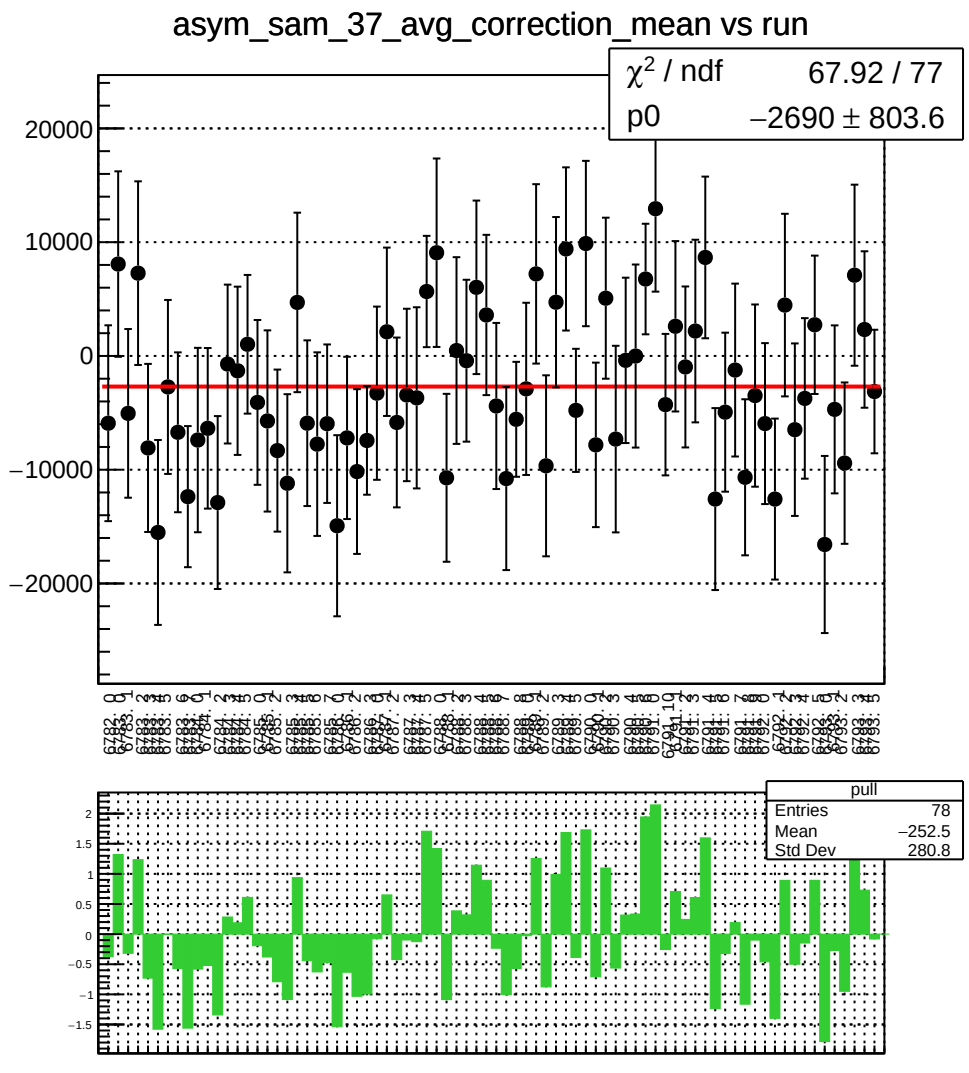

pull1D
Entries 78
Mean 0.01205
Std Dev 0.9231
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

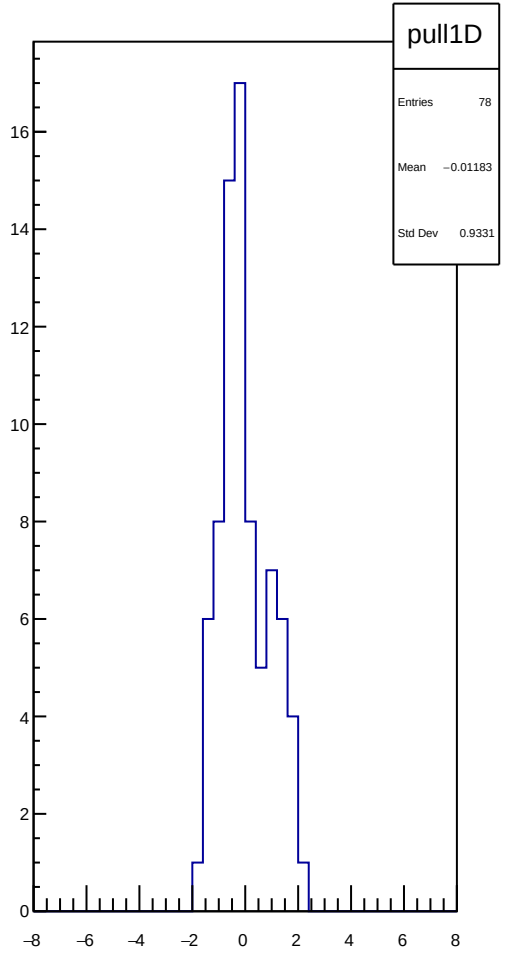

asym_sam_26_avg_rms vs run
χ² / ndf 4021 / 77
p0 757.8 ± 0.6061
850
800
750
700
650

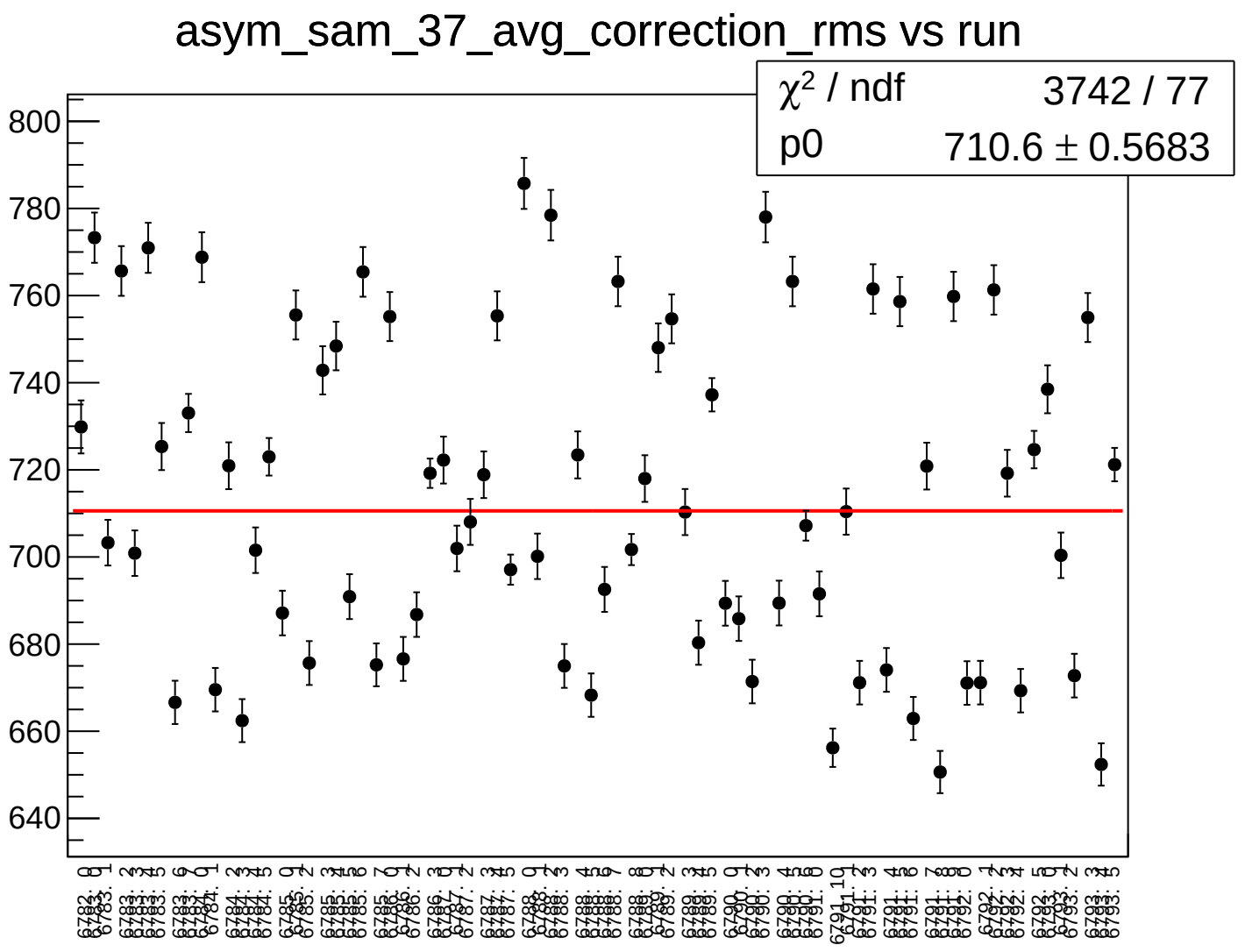

reg_asym_sam_37_avg_mean vs run
χ² / ndf 59.39 / 77
p0 180.4 ± 73.13
pull
Entries 78
Mean 183.9
Std Dev 135.4

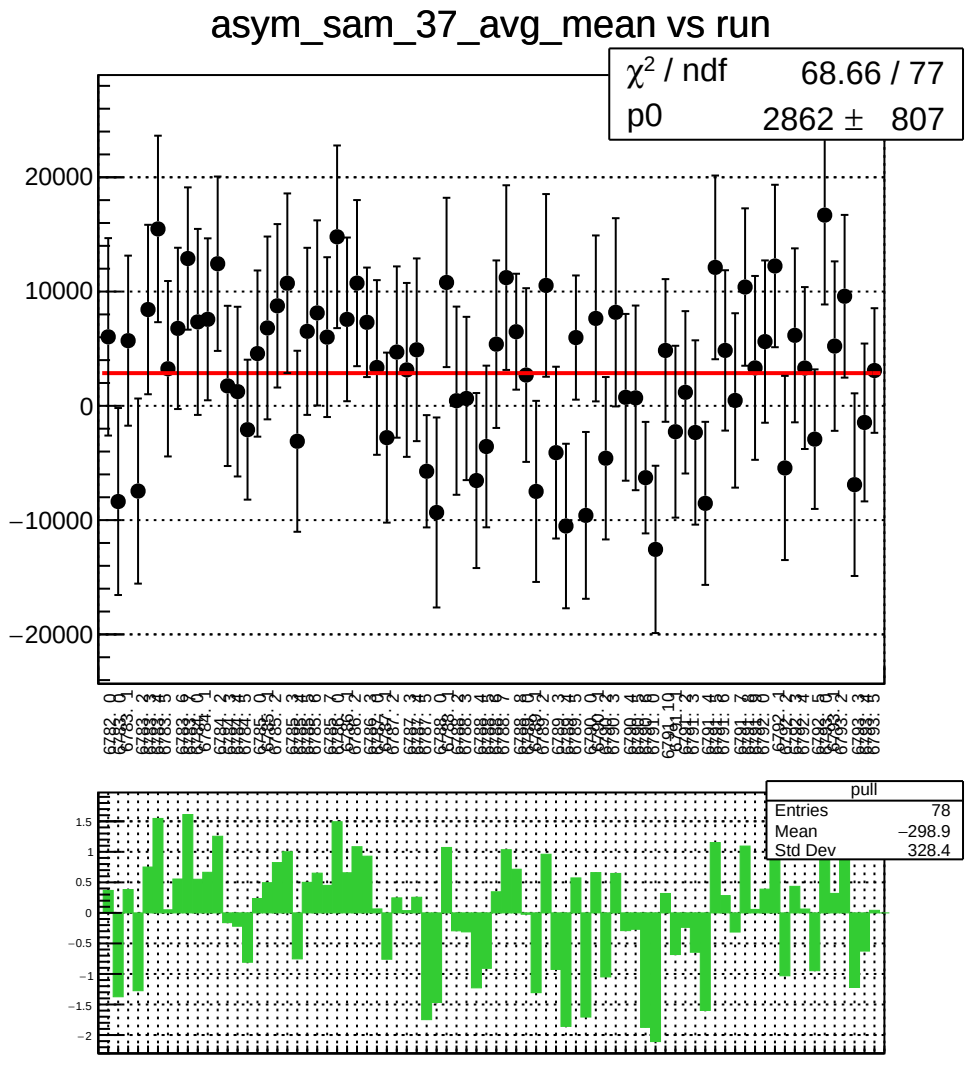

pull1D
Entries 78
Mean −0.0175
Std Dev 0.8724

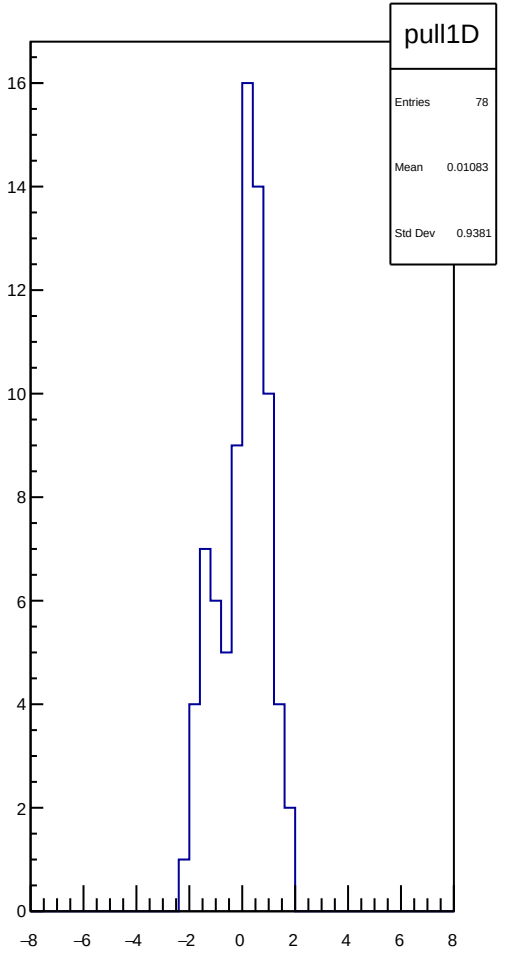

reg_asym_sam_37_avg_rms vs run
χ² / ndf 6177 / 77
p0 64.61 ± 0.05171
78
76
74
72
70
68
66
64
62
60
58

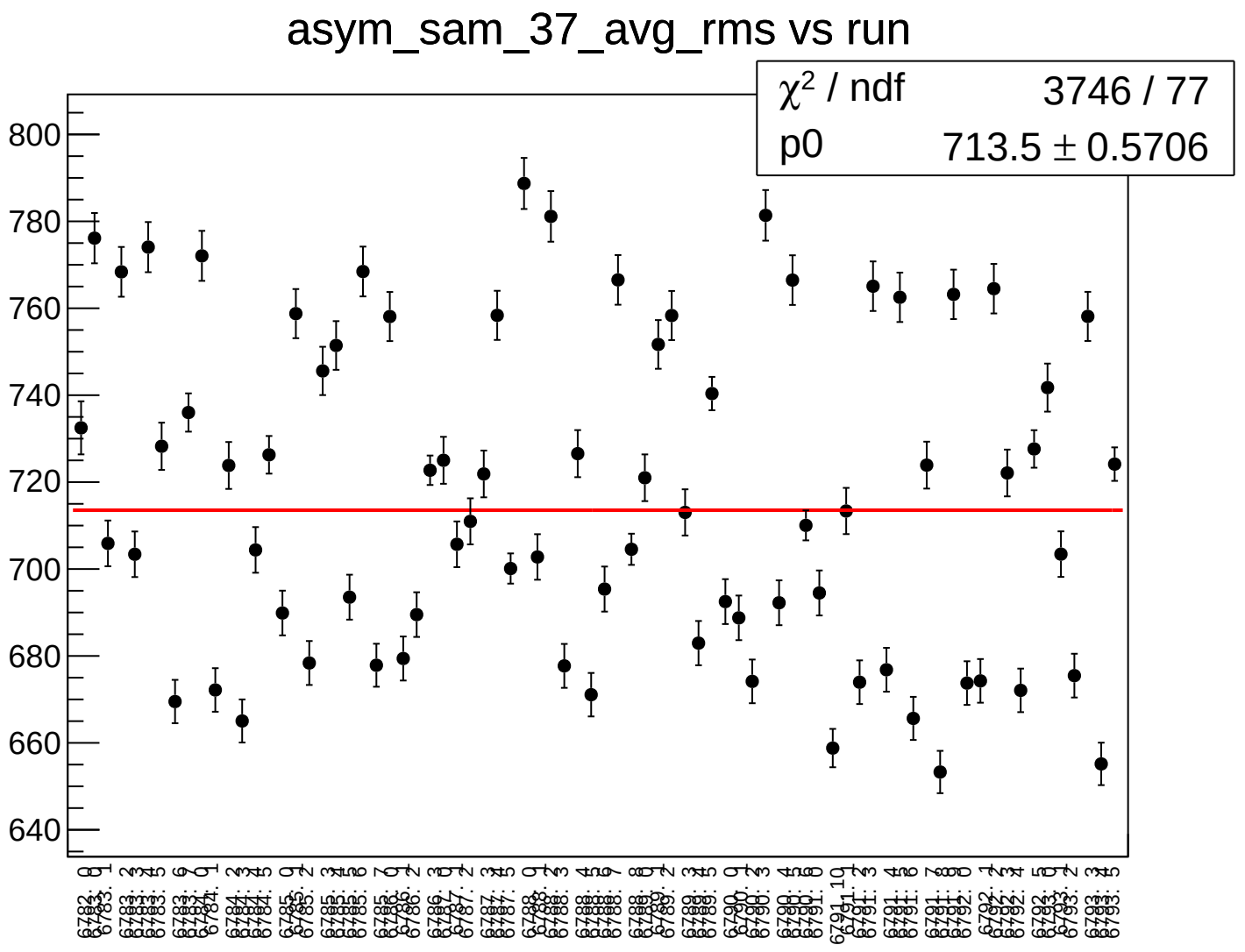

asym_sam_37_avg_correction_mean vs run
χ² / ndf 67.92 / 77
p0 −2690 ± 803.6
20000
10000
0
−10000
−20000
pull
Entries 78
Mean −252.5
Std Dev 280.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

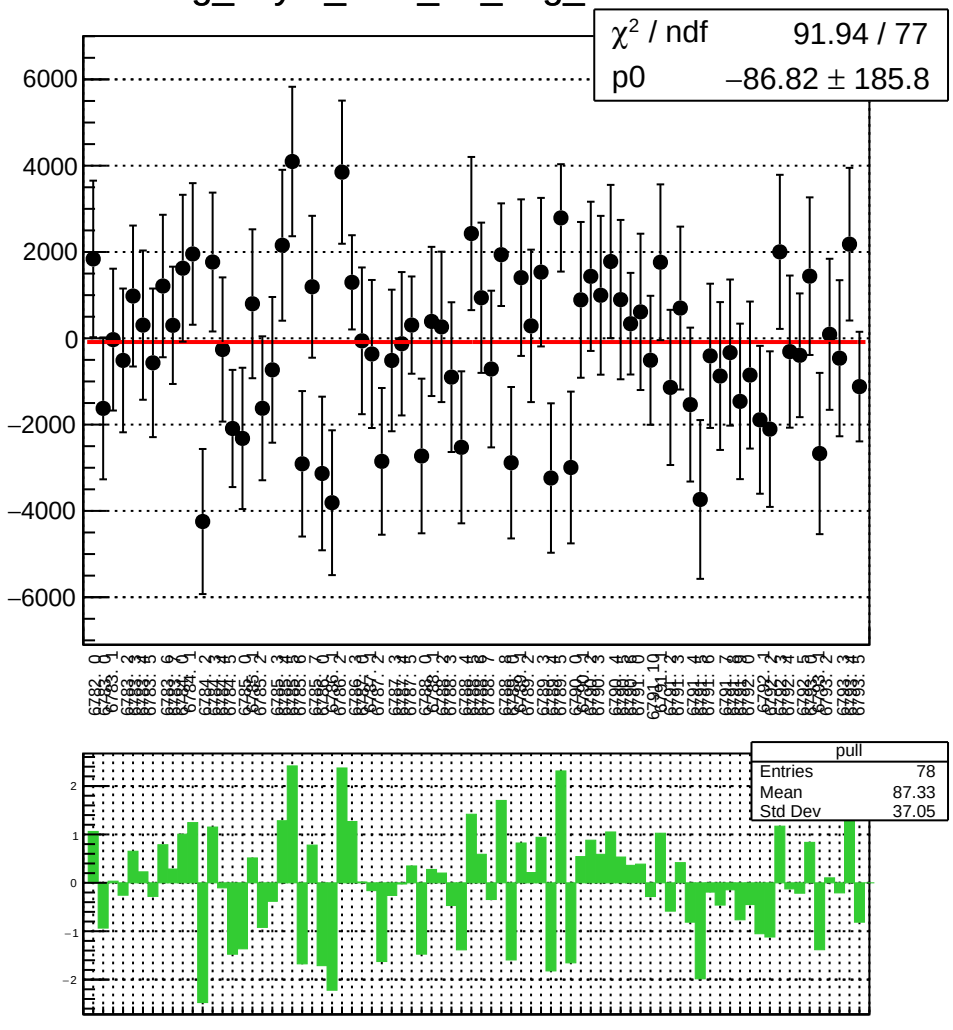

pull1D
Entries 78
Mean −0.01183
Std Dev 0.9331
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

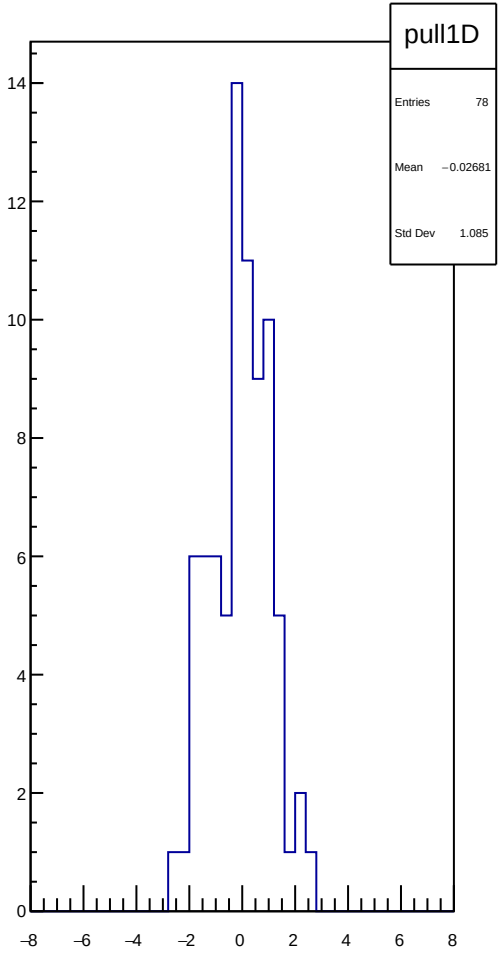

asym_sam_37_avg_correction_rms vs run
χ² / ndf 3742 / 77
p0 710.6 ± 0.5683
800
780
760
740
720
700
680
660
640

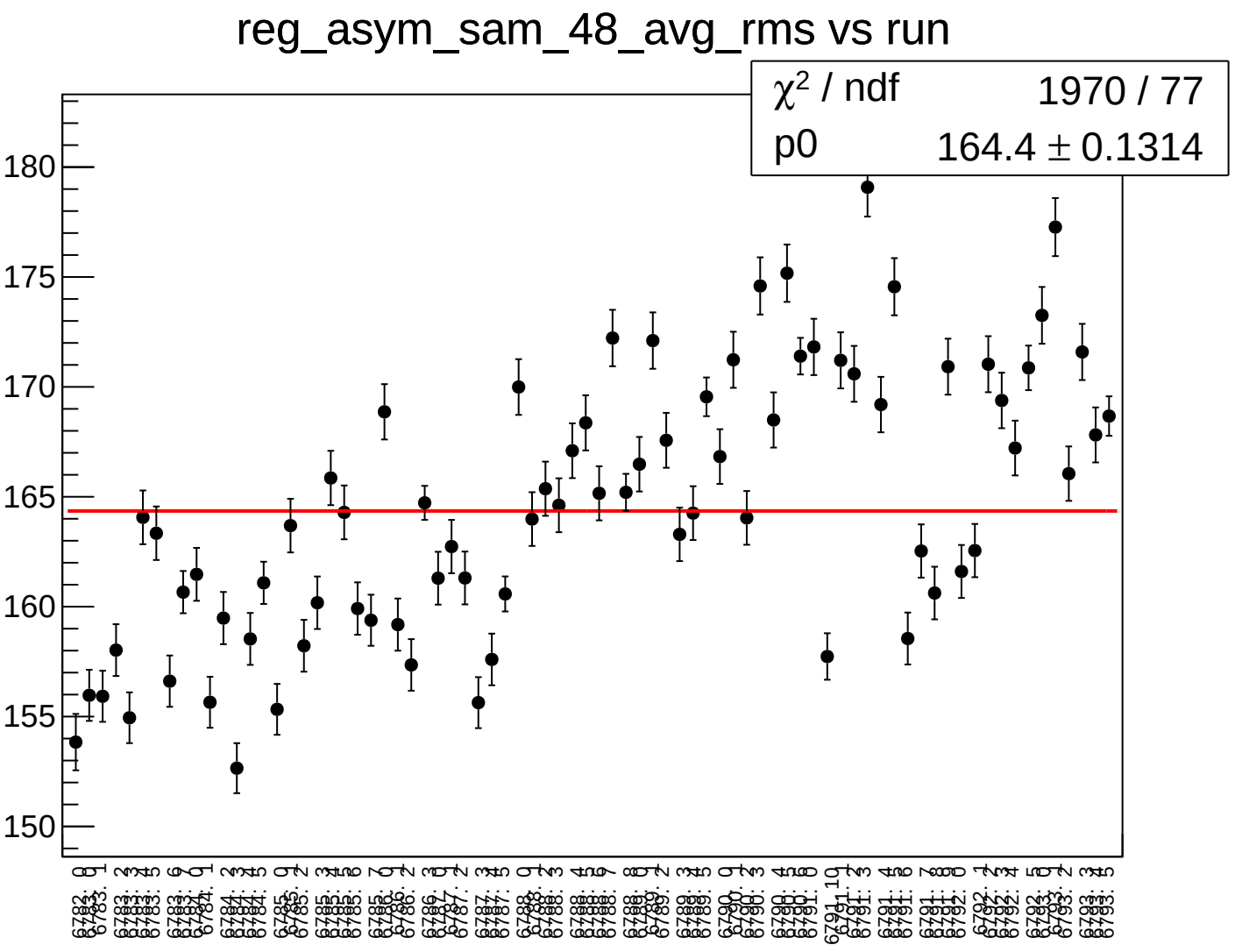

asym_sam_37_avg_mean vs run
χ² / ndf 68.66 / 77
p0 2862 ± 807
20000
10000
0
−10000
−20000
pull
Entries 78
Mean −298.9
Std Dev 328.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

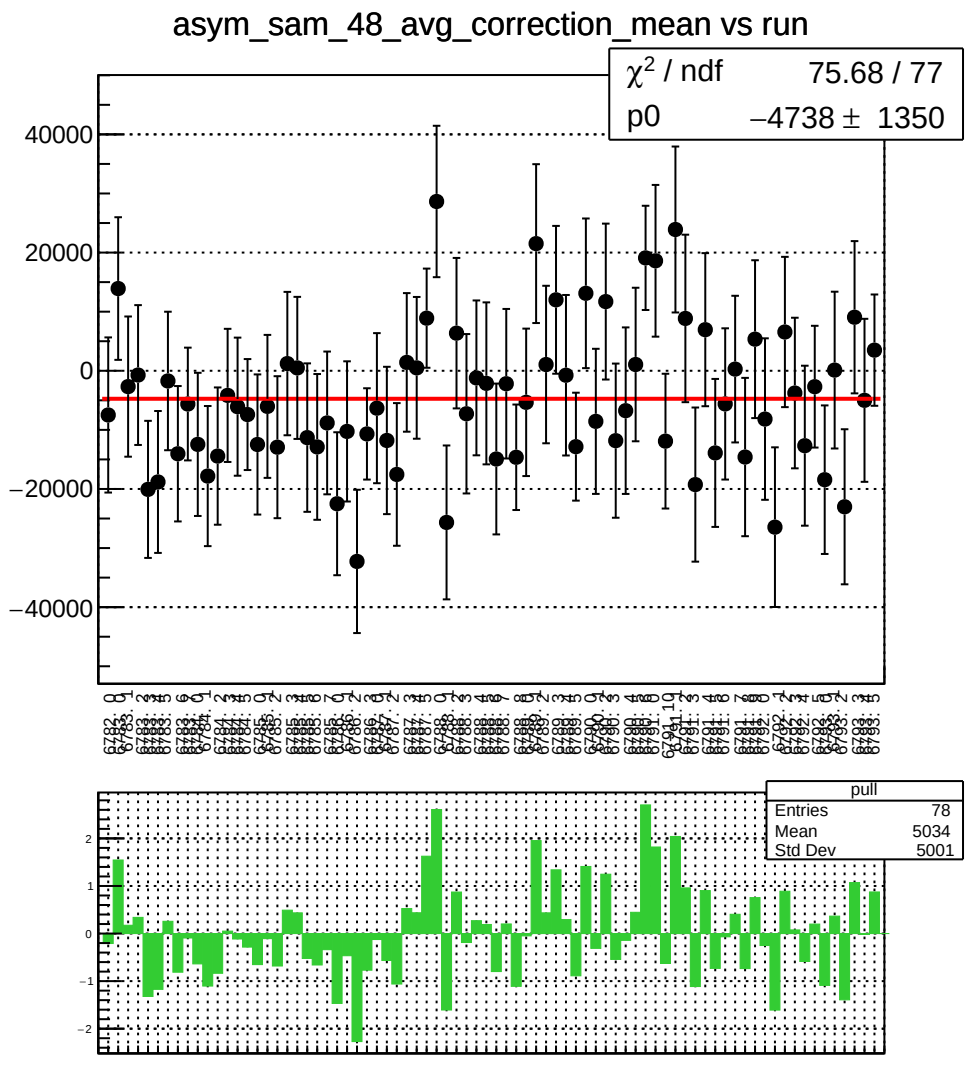

pull1D
Entries 78
Mean 0.01083
Std Dev 0.9381
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

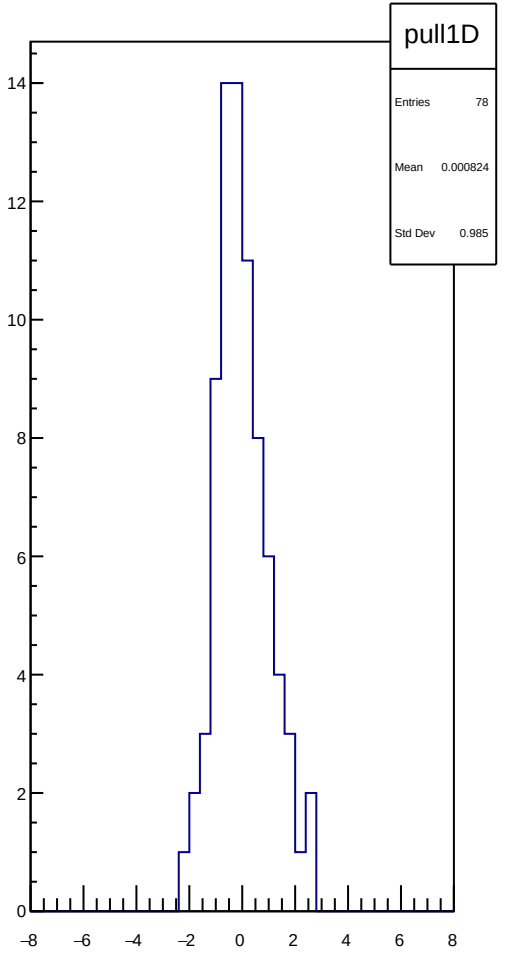

asym_sam_37_avg_rms vs run
χ² / ndf 3746 / 77
p0 713.5 ± 0.5706
800
780
760
740
720
700
680
660
640

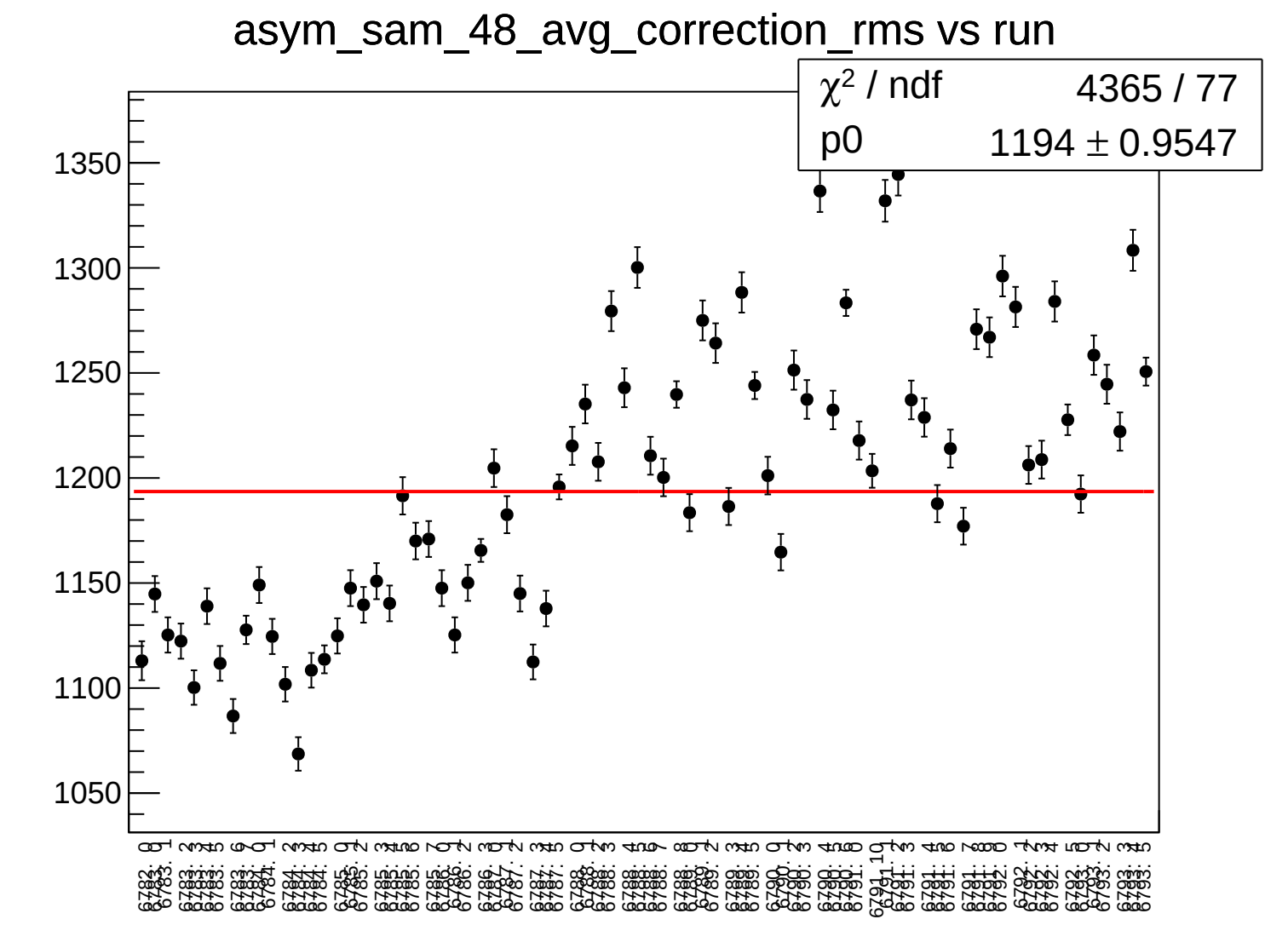

reg_asym_sam_48_avg_mean vs run
χ² / ndf 91.94 / 77
p0 −86.82 ± 185.8
pull
Entries 78
Mean 87.33
Std Dev 37.05

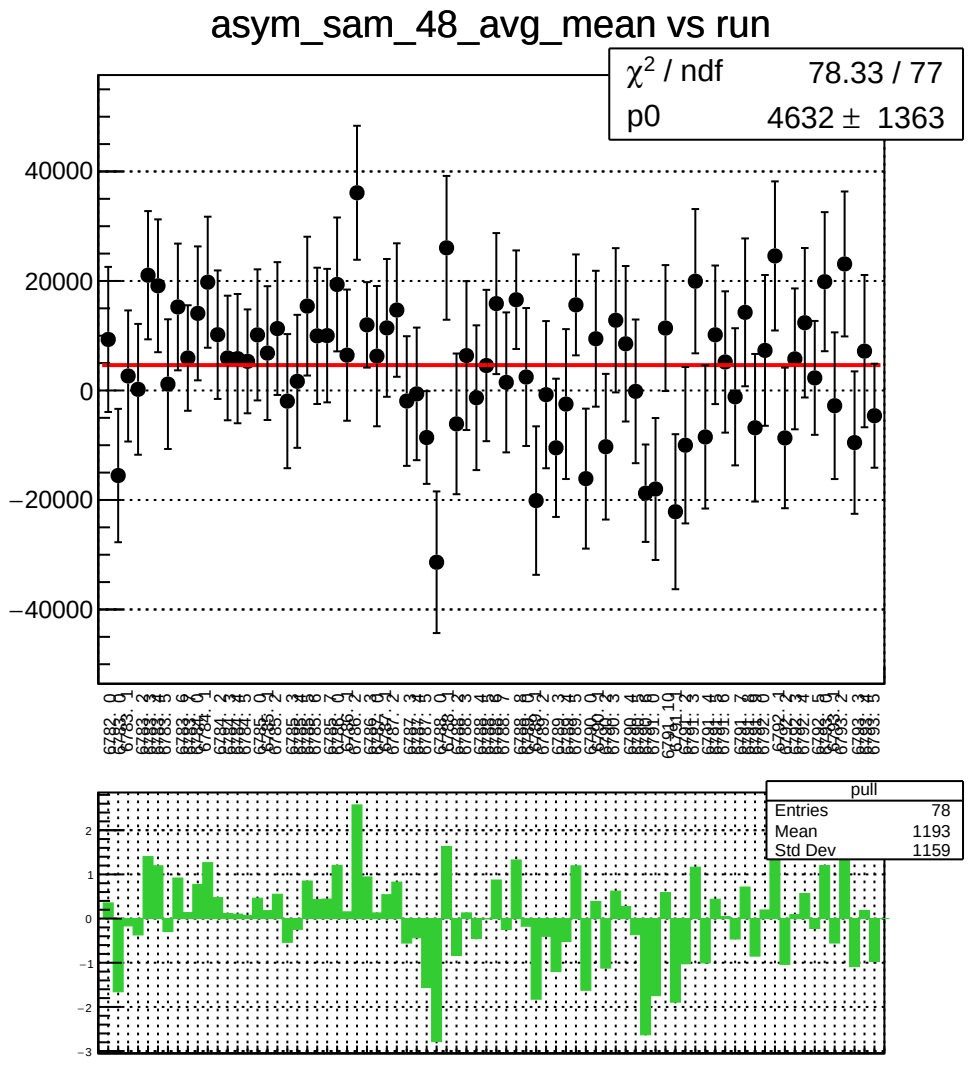

pull1D
Entries 78
Mean −0.02681
Std Dev 1.085

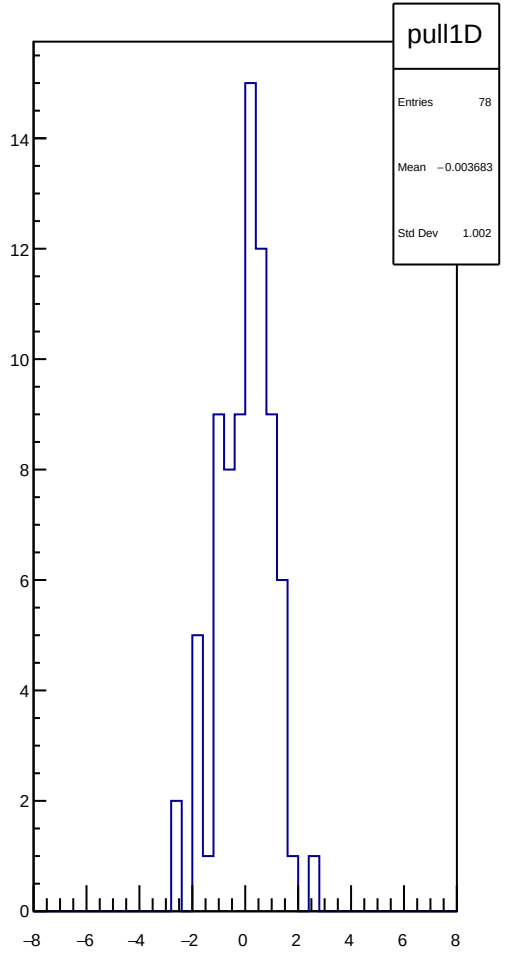

reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 1970 / 77
p0 164.4 ± 0.1314
180
175
170
165
160
155
150

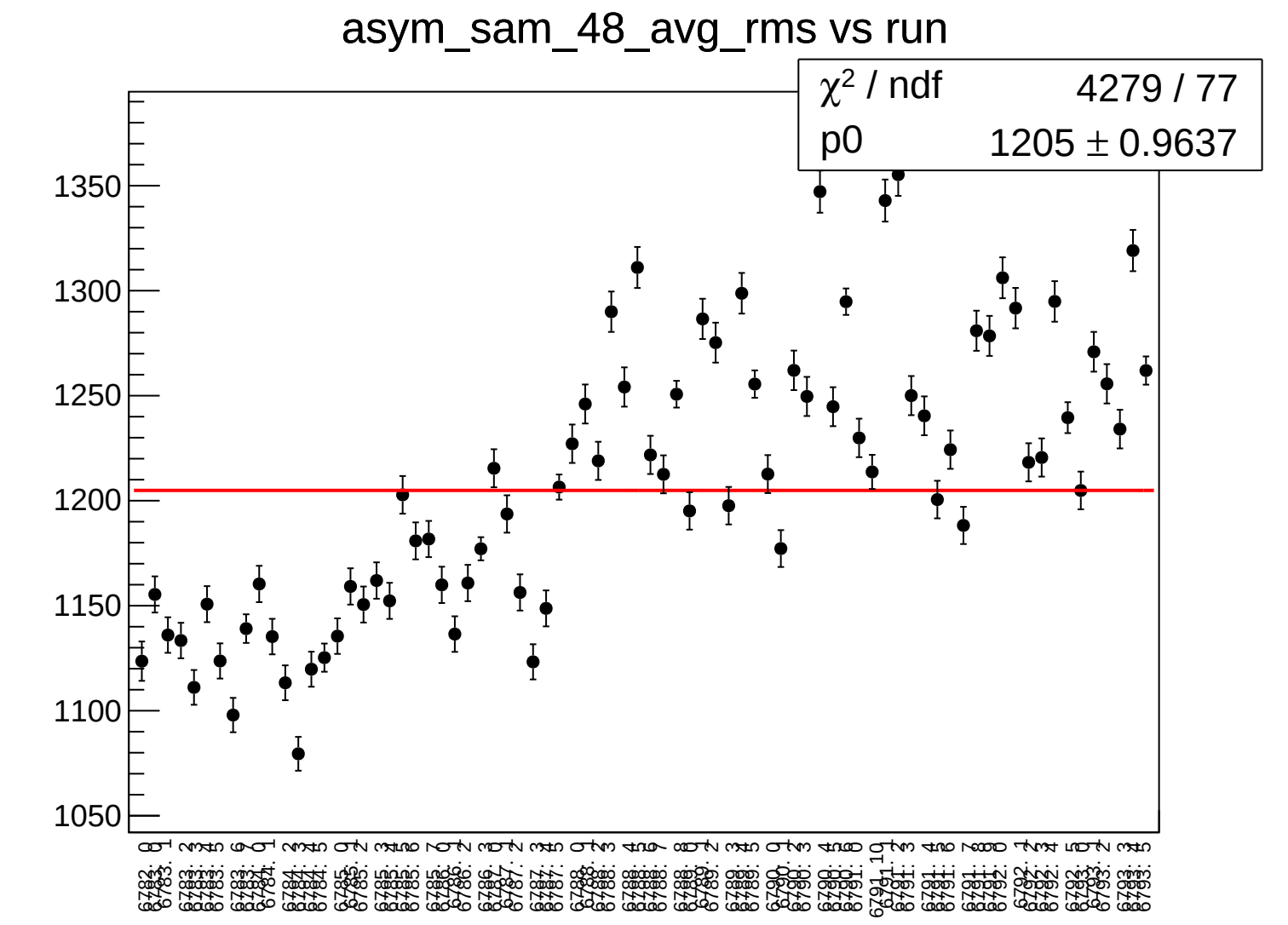

asym_sam_48_avg_correction_mean vs run
χ² / ndf 75.68 / 77
p0 −4738 ± 1350
40000
20000
0
−20000
−40000
pull
Entries 78
Mean 5034
Std Dev 5001
2
1
0
−1
−2

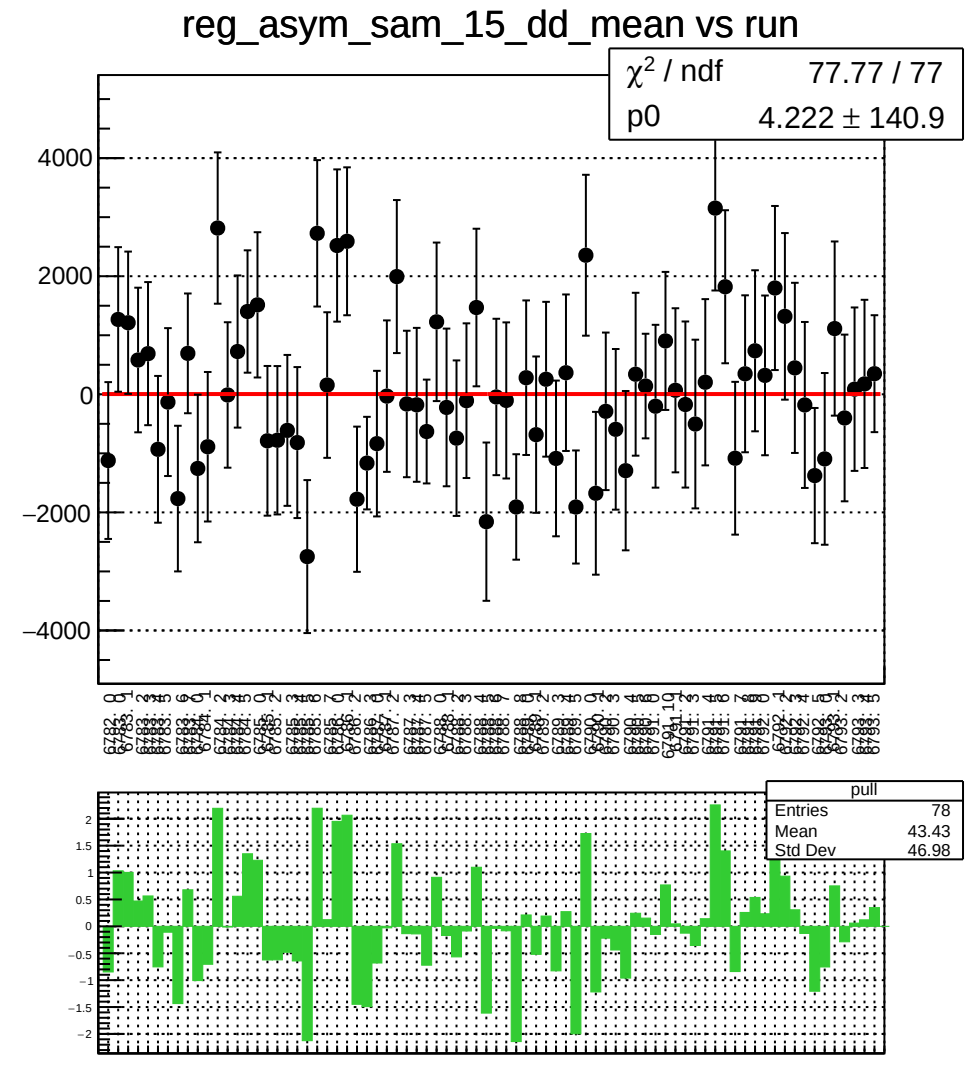

pull1D
Entries 78
Mean 0.000824
Std Dev 0.985
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

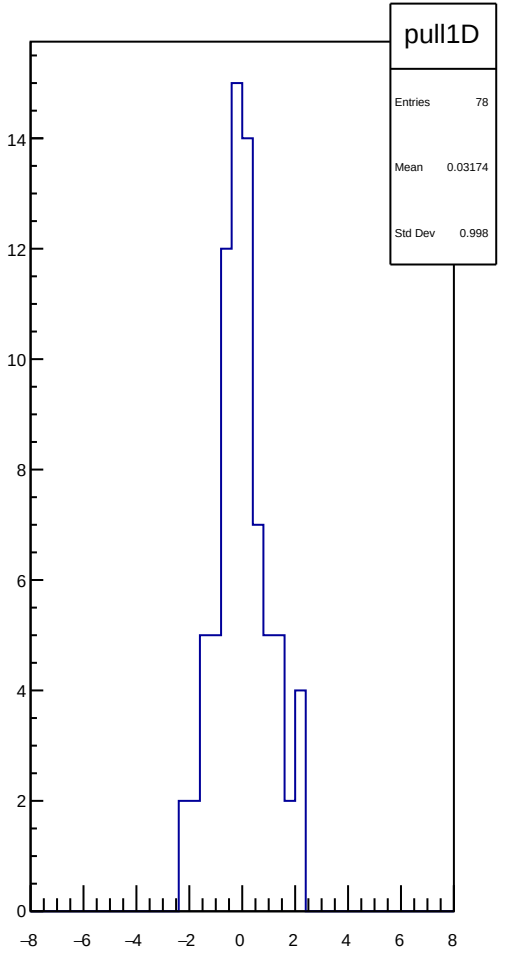

asym_sam_48_avg_correction_rms vs run
χ² / ndf 4365 / 77
p0 1194 ± 0.9547
1350
1300
1250
1200
1150
1100
1050

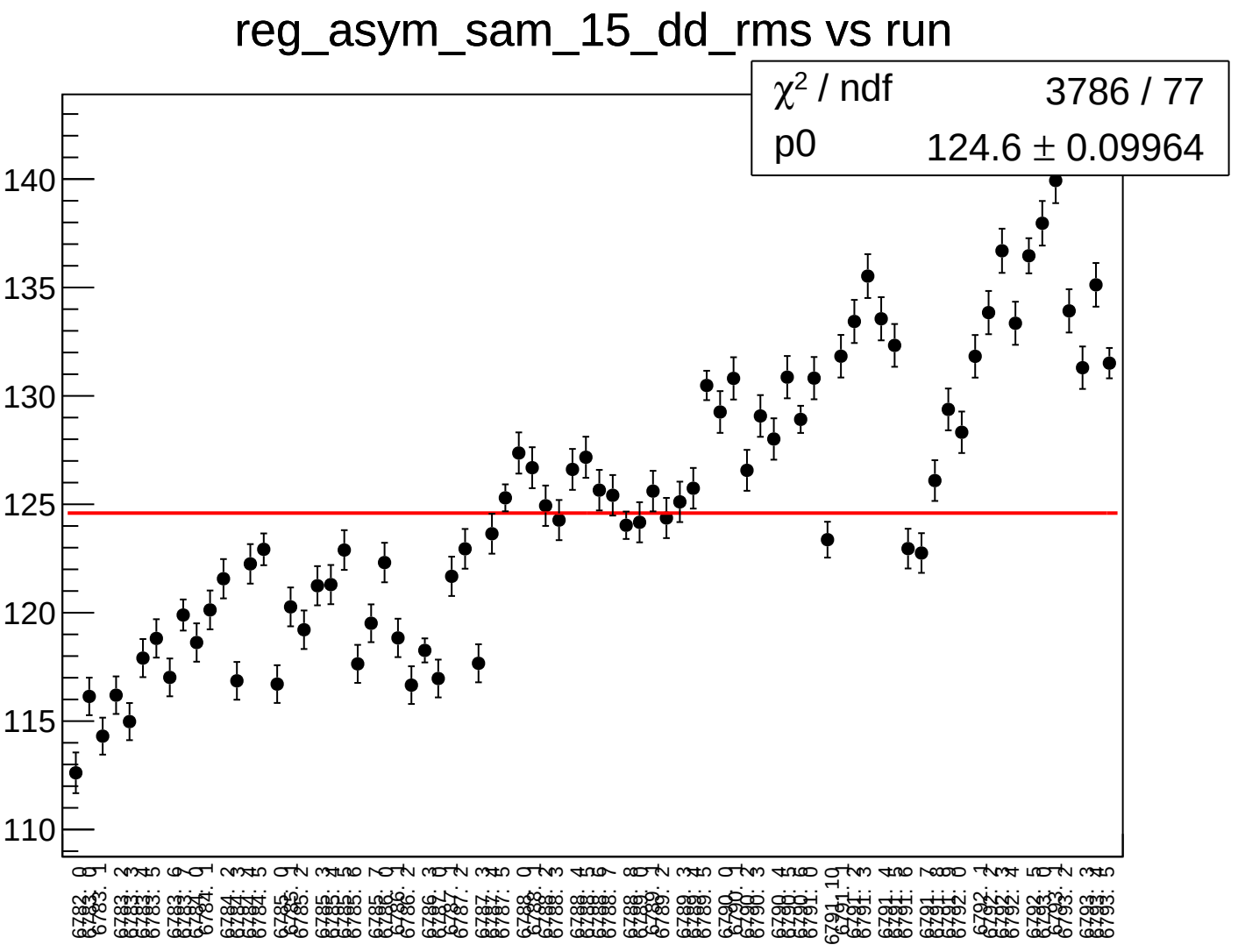

asym_sam_48_avg_mean vs run
χ² / ndf 78.33 / 77
p0 4632 ± 1363
40000
20000
0
−20000
−40000
pull
Entries 78
Mean 1193
Std Dev 1159
2
1
0
−1
−2
−3

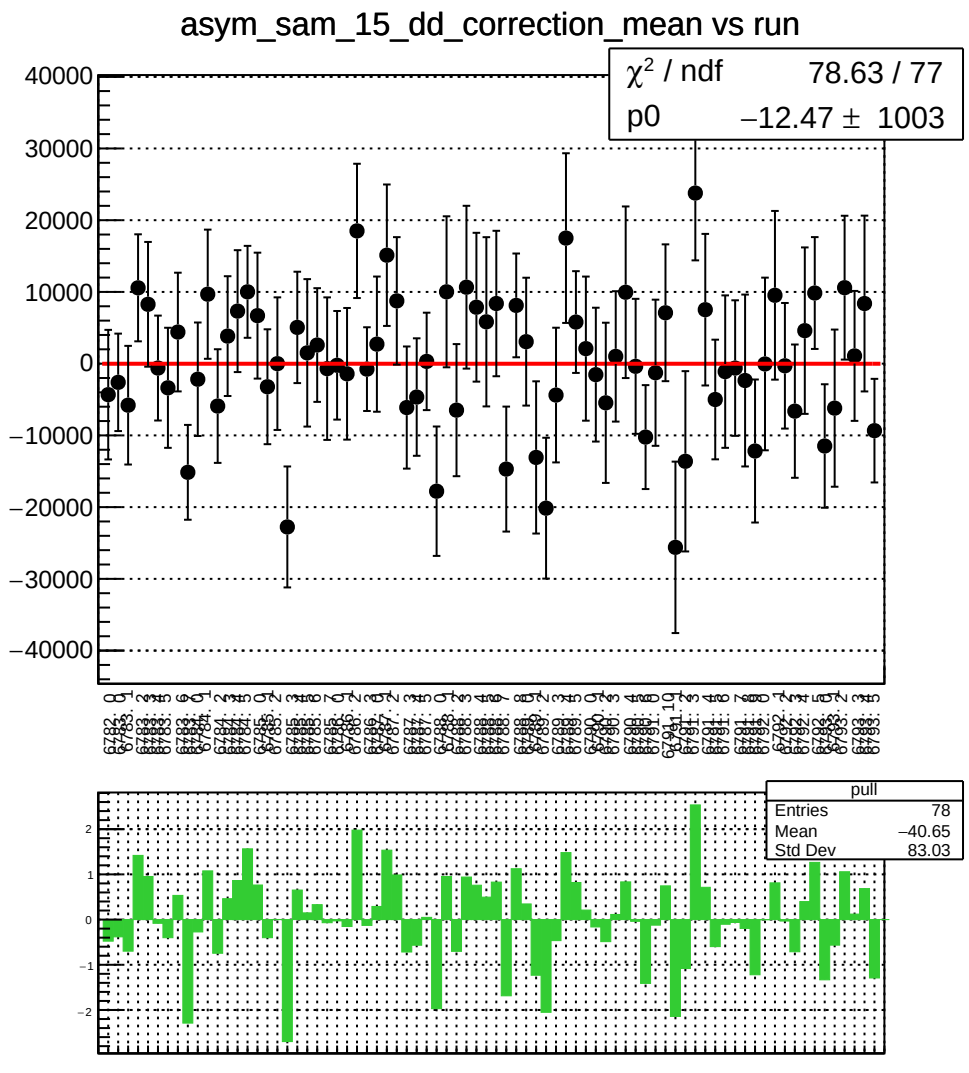

pull1D
Entries 78
Mean −0.003683
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

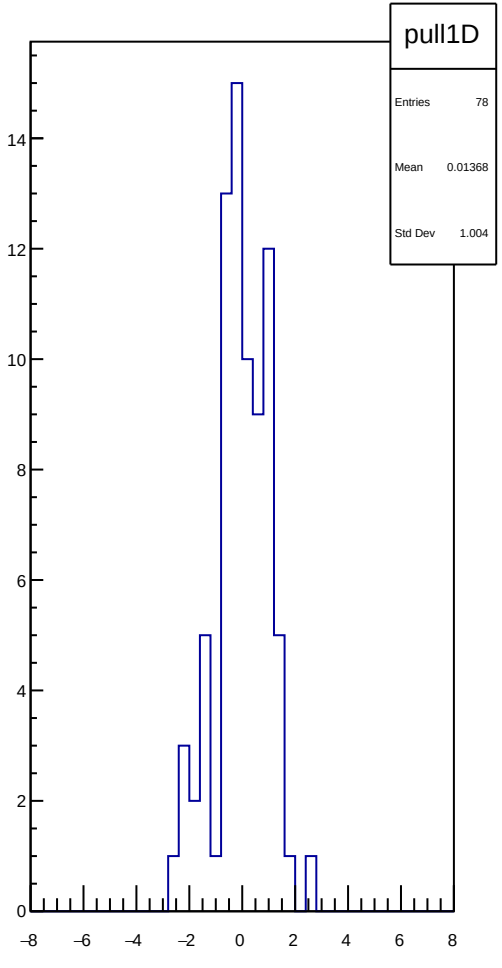

asym_sam_48_avg_rms vs run
χ² / ndf 4279 / 77
p0 1205 ± 0.9637
1350
1300
1250
1200
1150
1100
1050

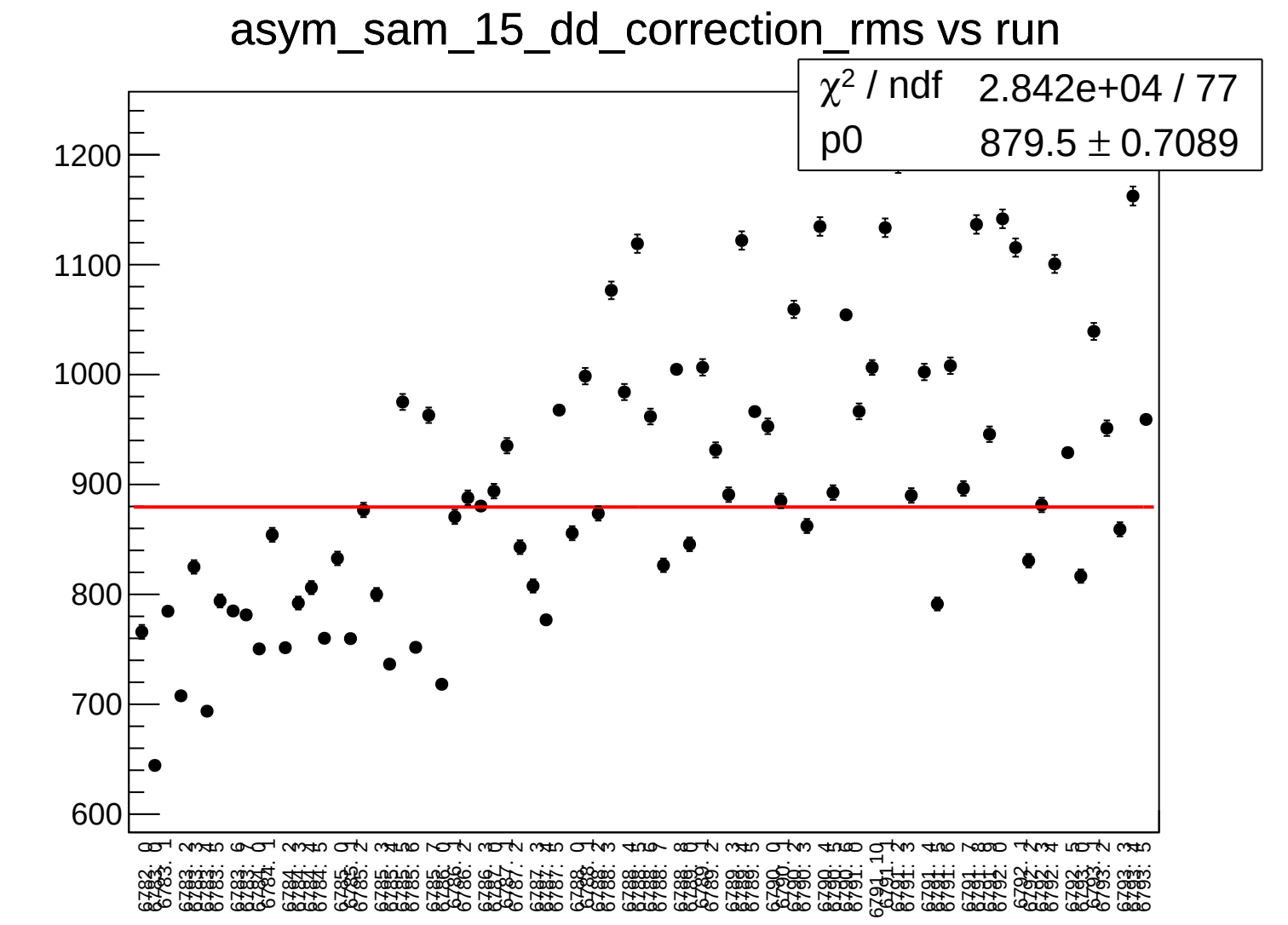

reg_asym_sam_15_dd_mean vs run
χ² / ndf 77.77 / 77
p0 4.222 ± 140.9
4000
2000
0
−2000
−4000
pull
Entries 78
Mean 43.43
Std Dev 46.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

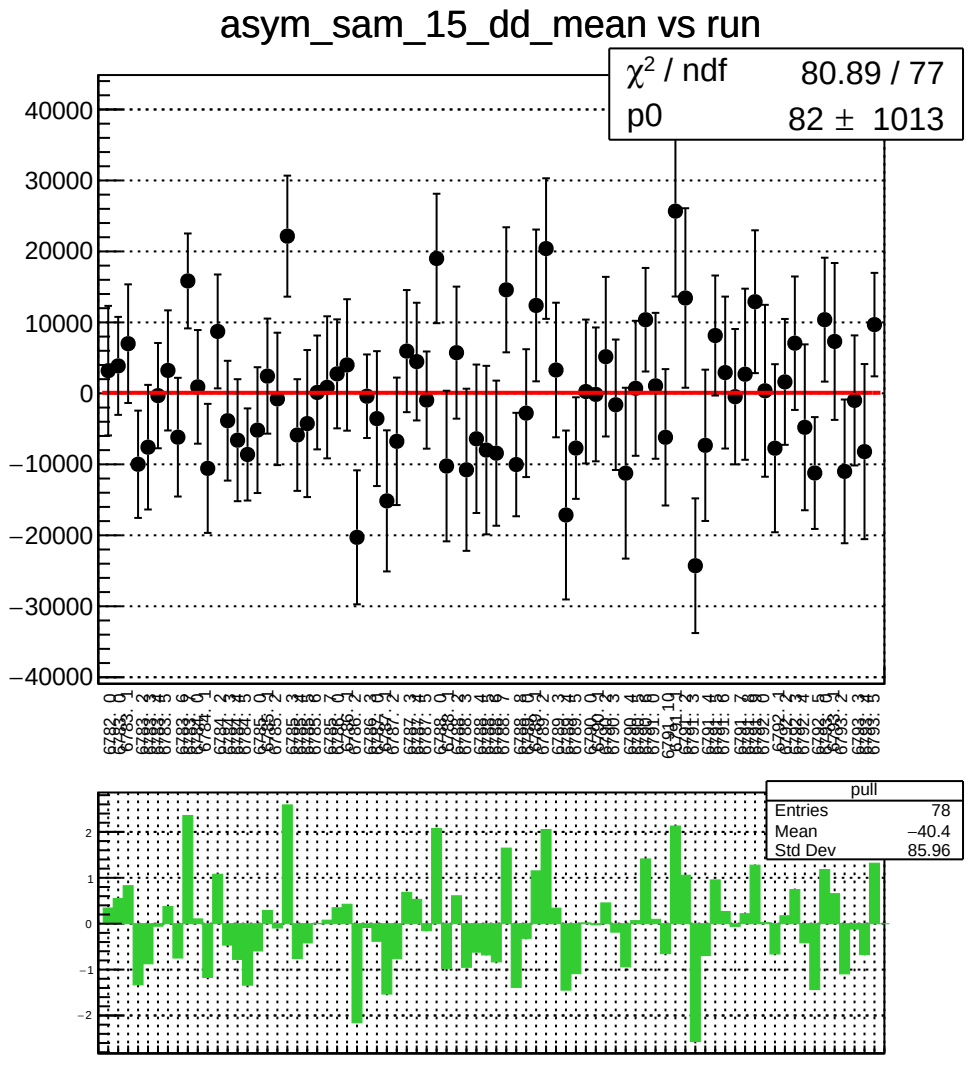

pull1D
Entries 78
Mean 0.03174
Std Dev 0.998
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

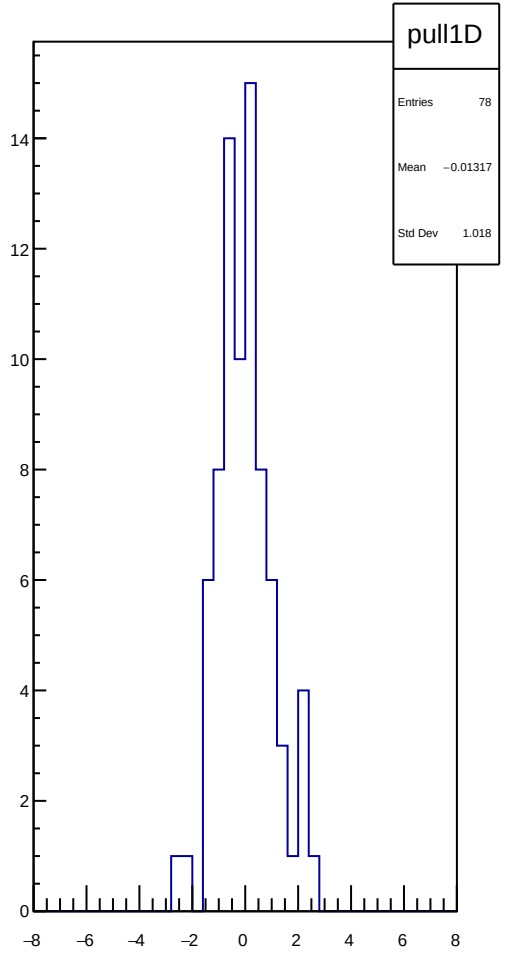

reg_asym_sam_15_dd_rms vs run
χ² / ndf 3786 / 77
p0 124.6 ± 0.09964
140
135
130
125
120
115
110

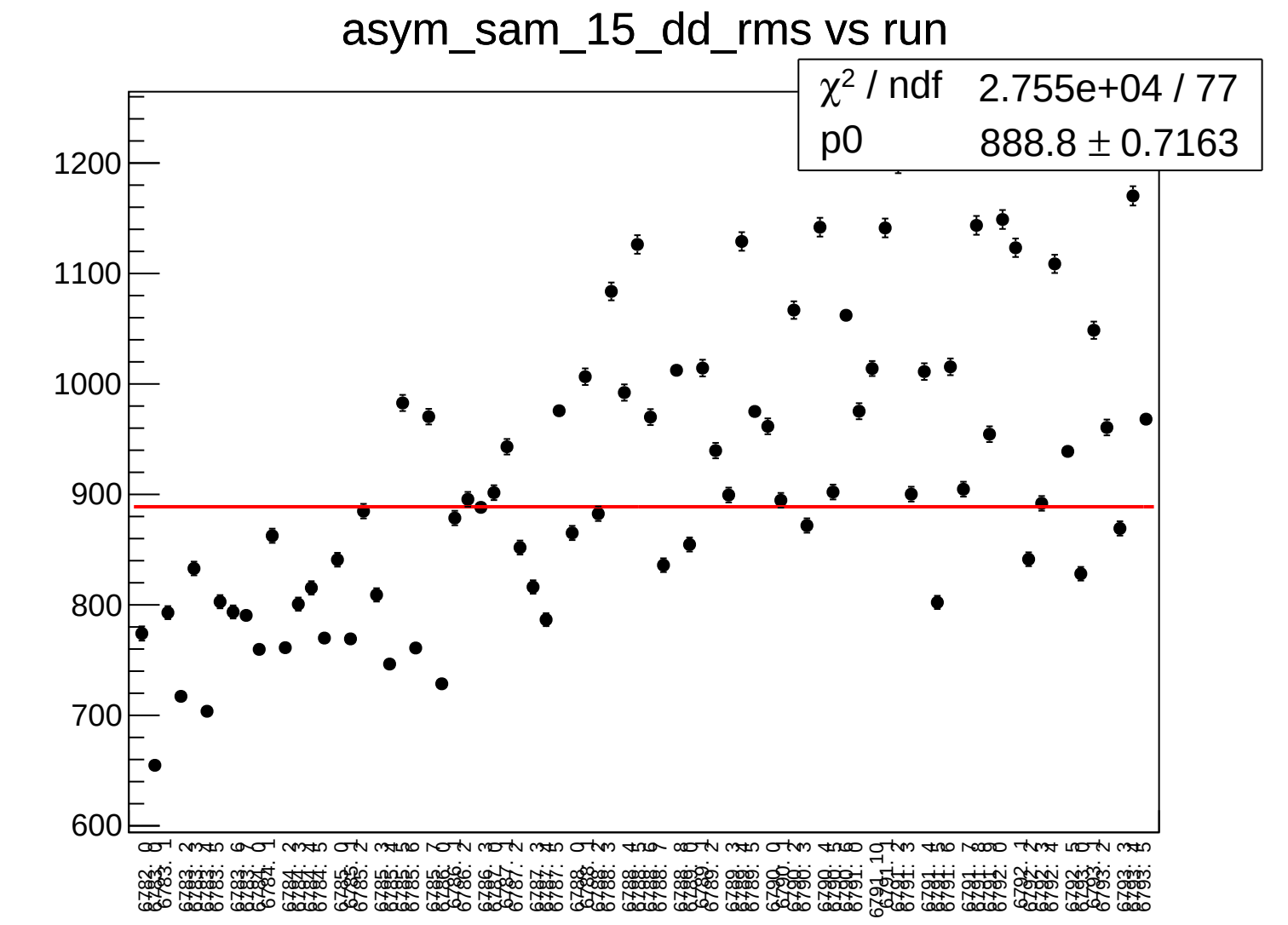

asym_sam_15_dd_correction_mean vs run
χ² / ndf 78.63 / 77
p0 −12.47 ± 1003
pull
Entries 78
Mean −40.65
Std Dev 83.03

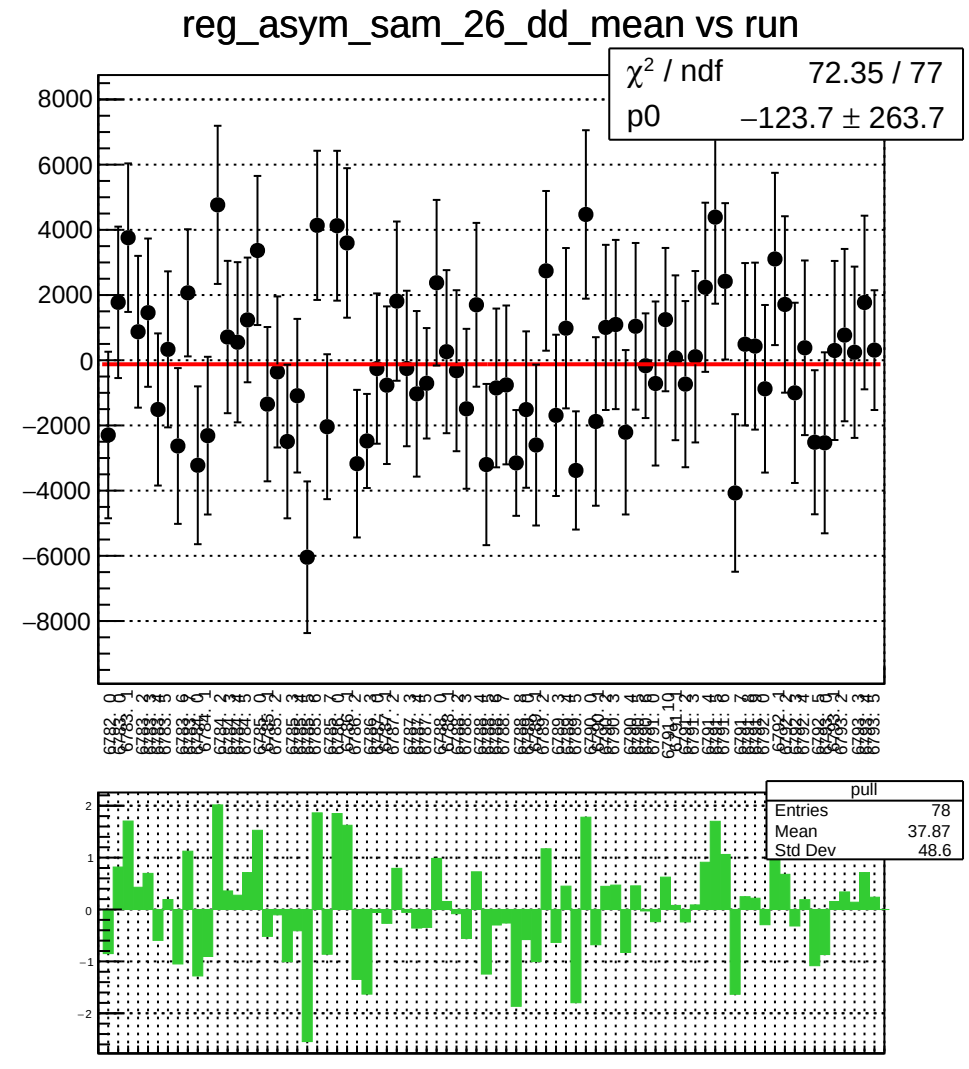

pull1D
Entries 78
Mean 0.01368
Std Dev 1.004

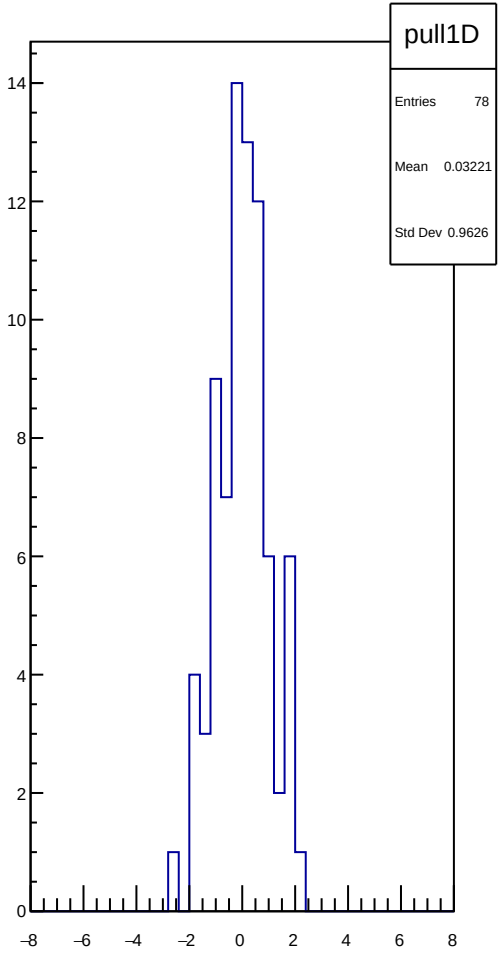

asym_sam_15_dd_correction_rms vs run
χ² / ndf 2.842e+04 / 77
p0 879.5 ± 0.7089
1200
1100
1000
900
800
700
600

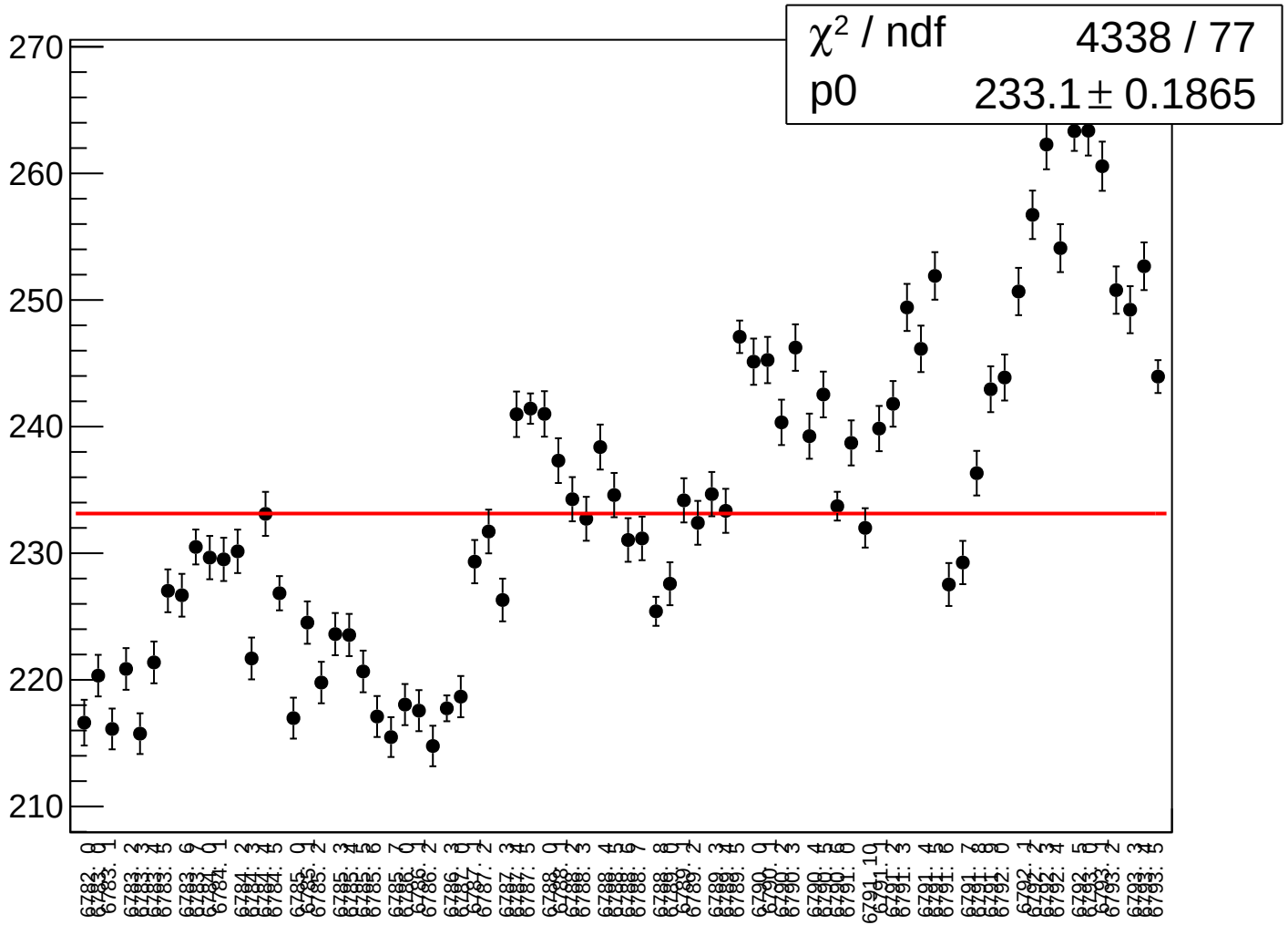

asym_sam_15_dd_mean vs run
χ² / ndf 80.89 / 77
p0 82 ± 1013
pull
Entries 78
Mean −40.4
Std Dev 85.96

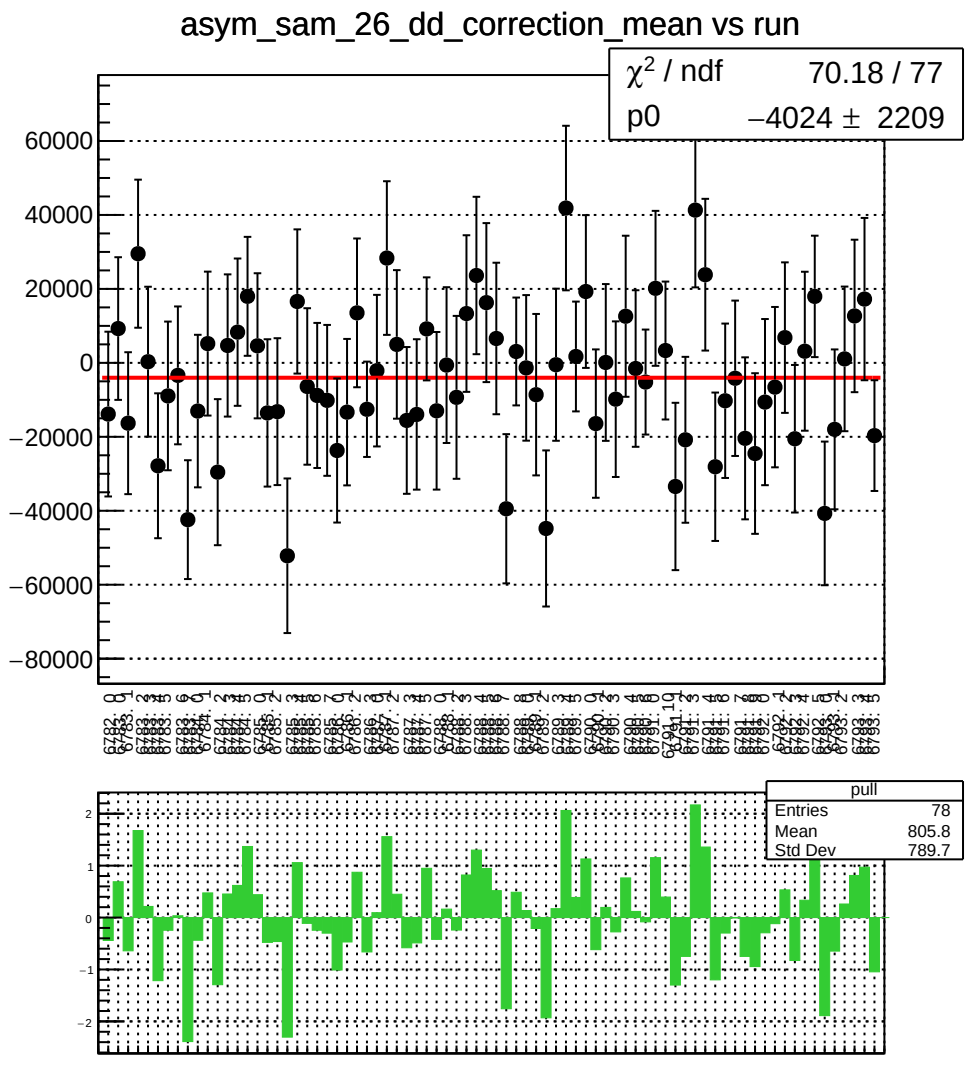

pull1D
Entries 78
Mean −0.01317
Std Dev 1.018

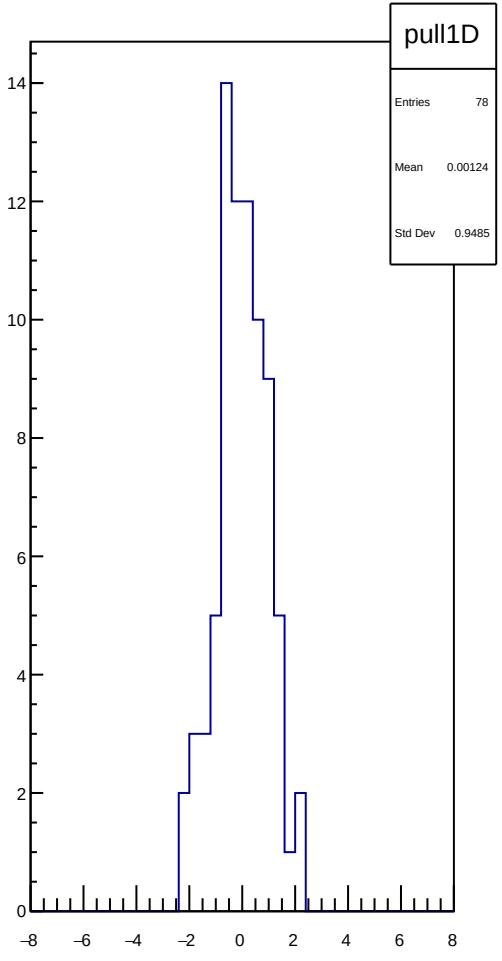

asym_sam_15_dd_rms vs run
χ^2 / ndf 2.755e+04 / 77
p0 888.8 ± 0.7163
1200
1100
1000
900
800
700
600

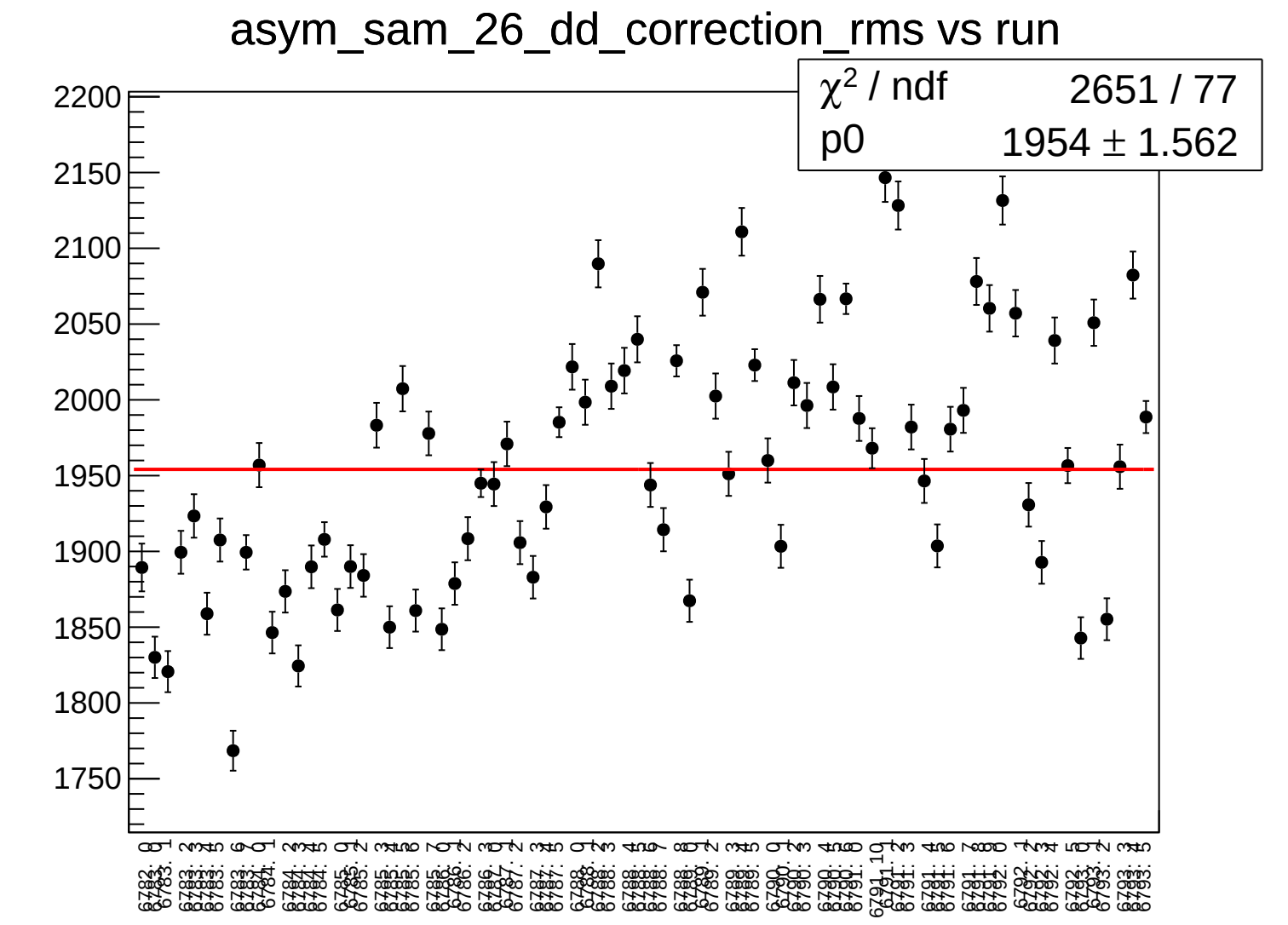

reg_asym_sam_26_dd_mean vs run
χ² / ndf 72.35 / 77
p0 −123.7 ± 263.7
pull
Entries 78
Mean 37.87
Std Dev 48.6

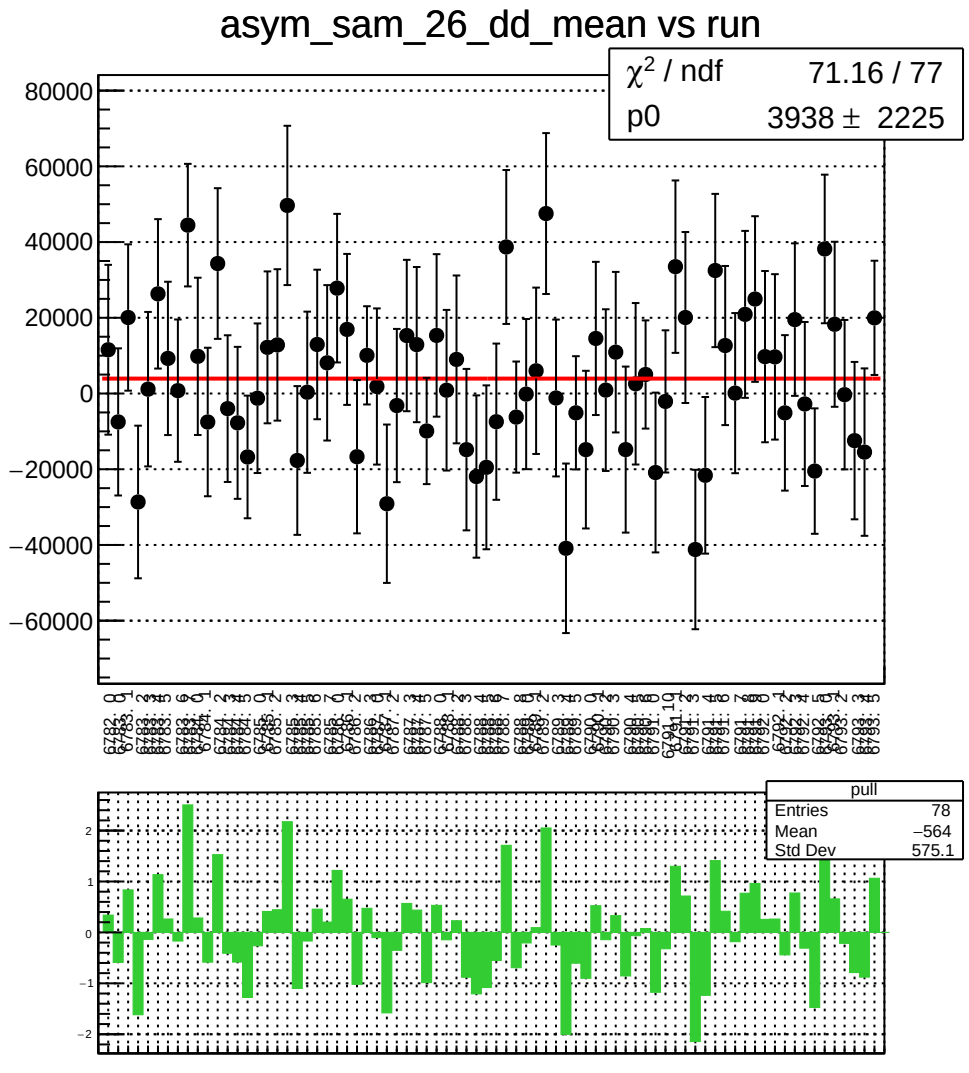

pull1D
Entries 78
Mean 0.03221
Std Dev 0.9626

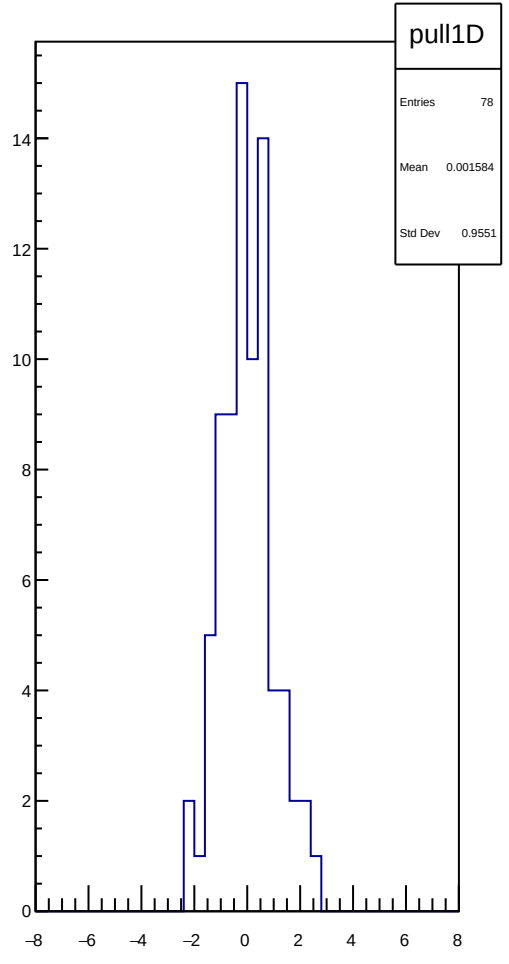

reg_asym_sam_26_dd_rms vs run
χ² / ndf 4338 / 77
p0 233.1 ± 0.1865
270
260
250
240
230
220
210

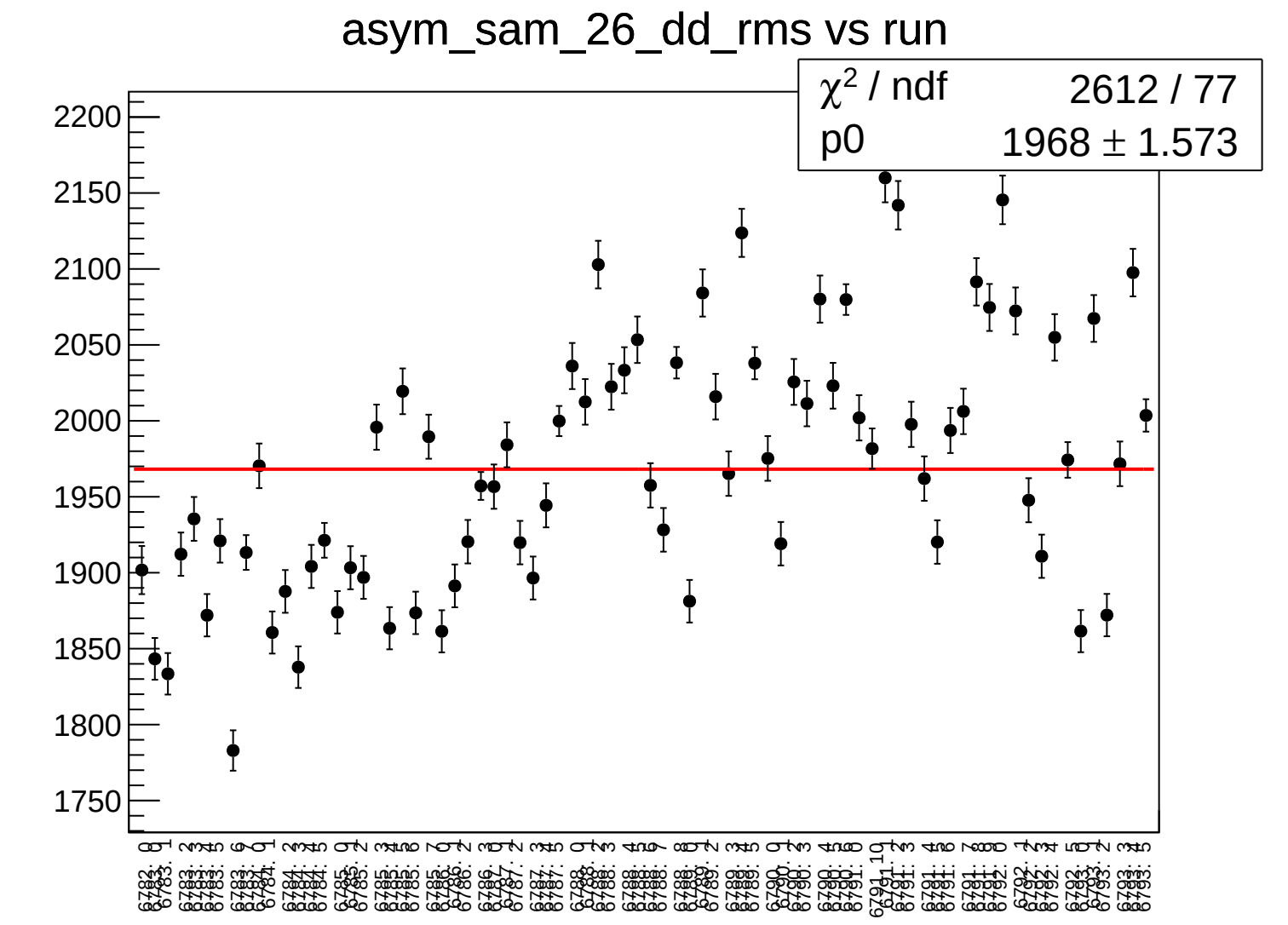

asym_sam_26_dd_correction_mean vs run
χ² / ndf 70.18 / 77
p0 −4024 ± 2209
pull
Entries 78
Mean 805.8
Std Dev 789.7

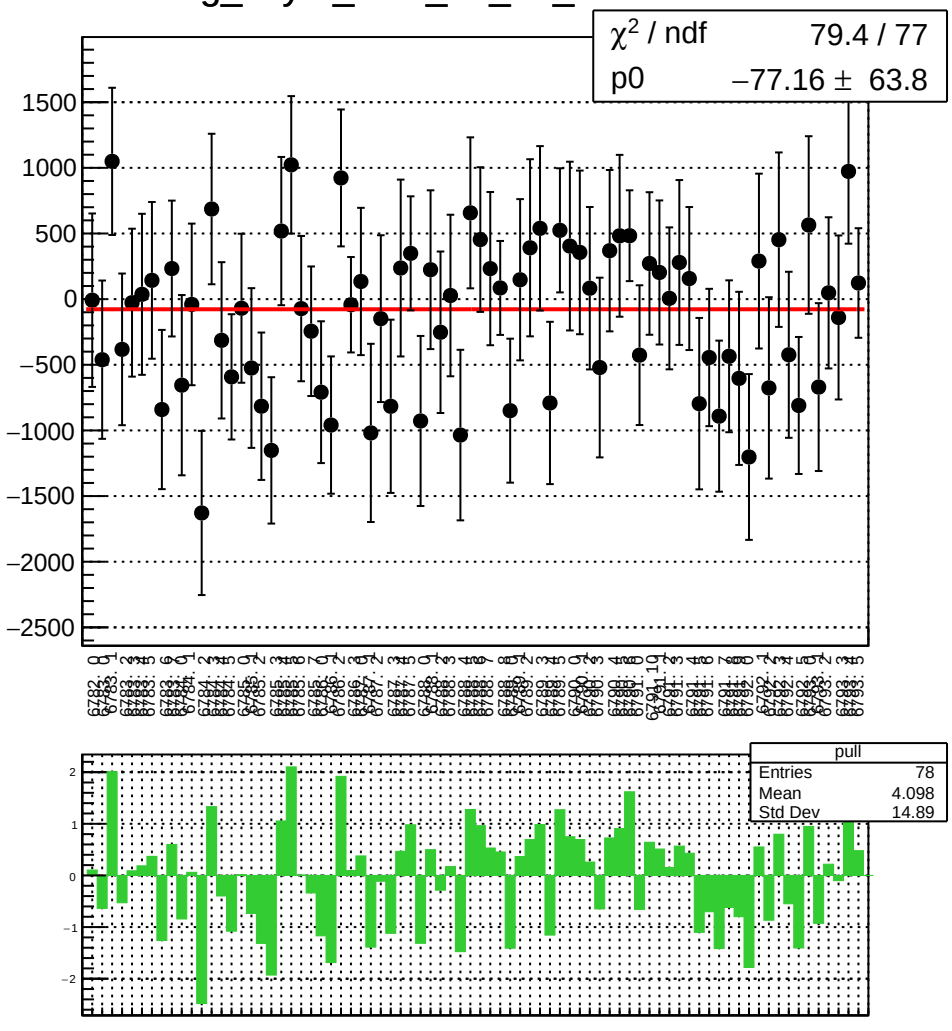

pull1D
Entries 78
Mean 0.00124
Std Dev 0.9485

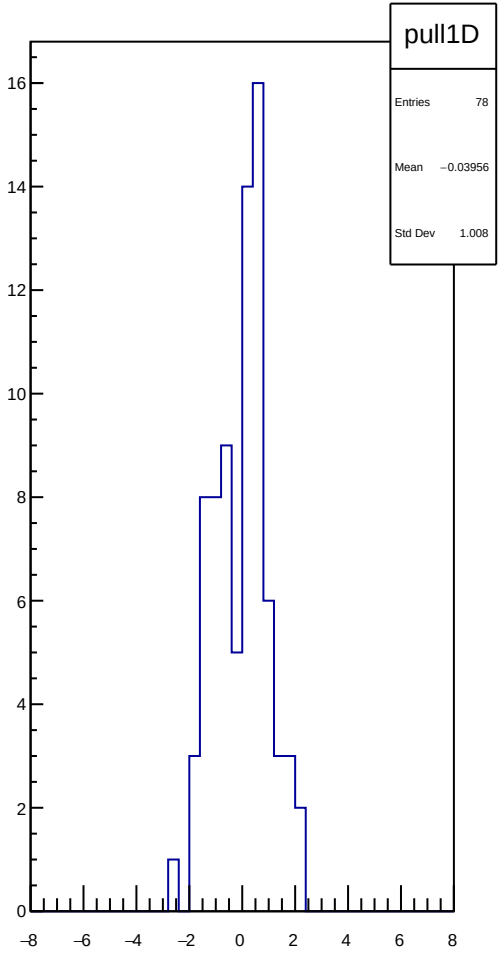

asym_sam_26_dd_correction_rms vs run
χ² / ndf 2651 / 77
p0 1954 ± 1.562
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

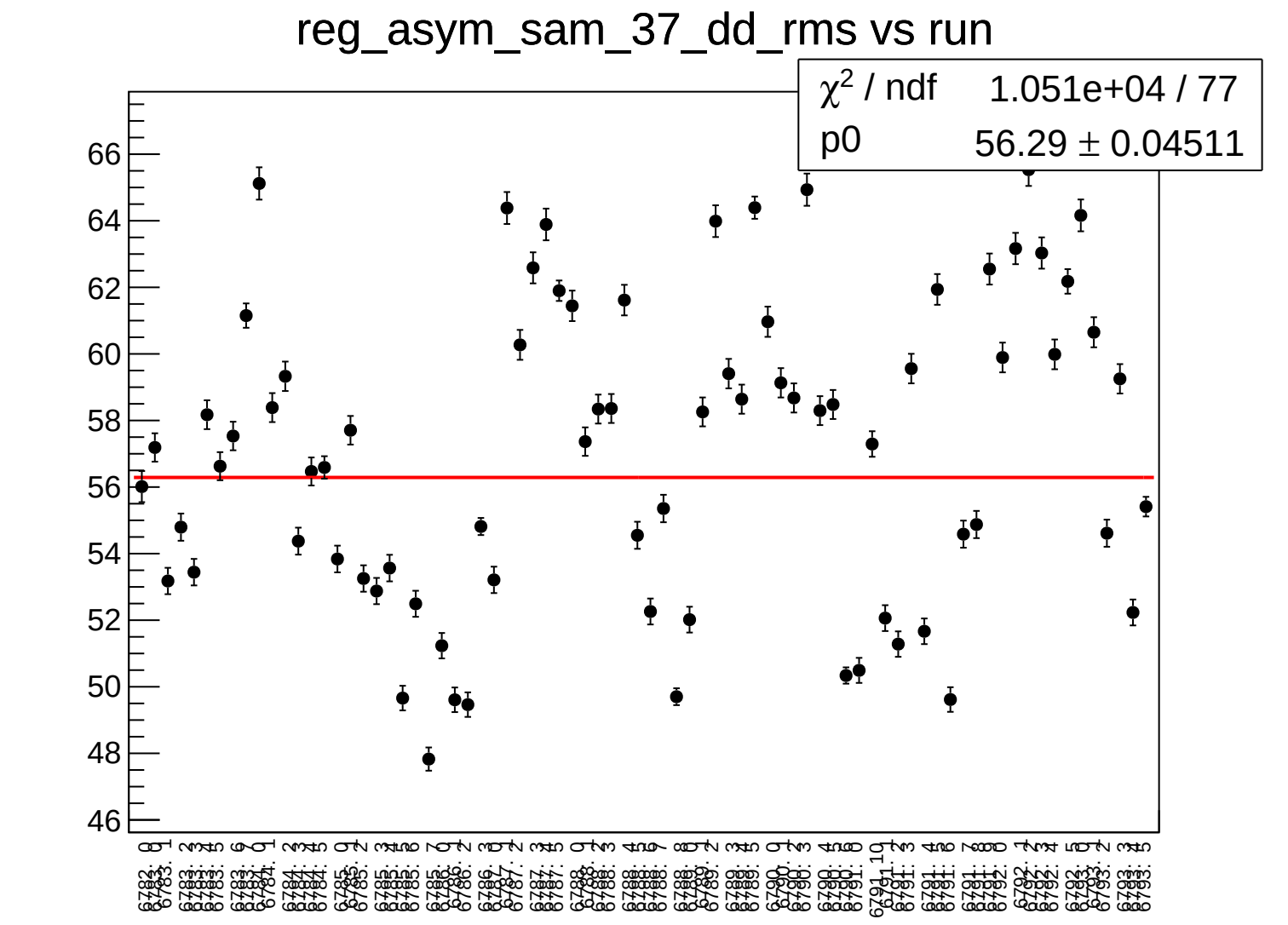

asym_sam_26_dd_mean vs run
χ² / ndf 71.16 / 77
p0 3938 ± 2225
pull
Entries 78
Mean −564
Std Dev 575.1

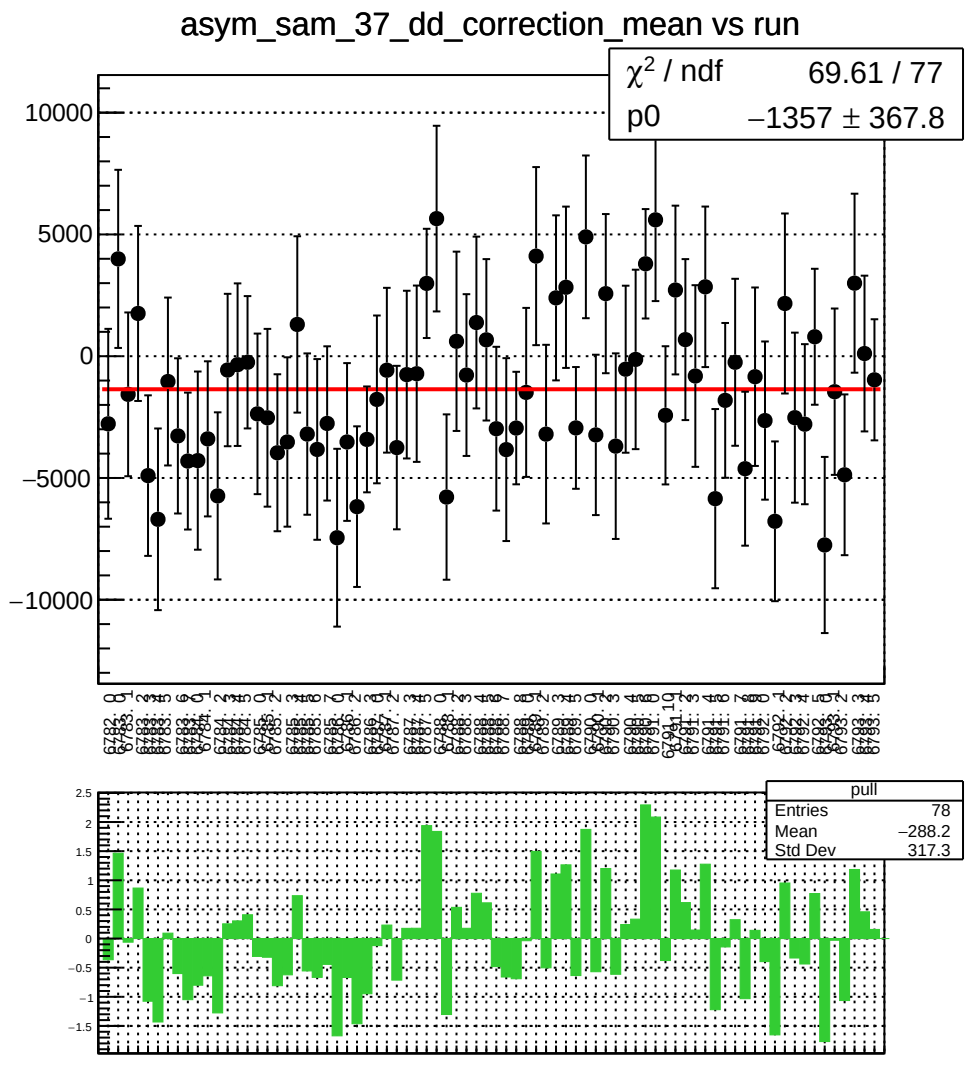

pull1D
Entries 78
Mean 0.001584
Std Dev 0.9551

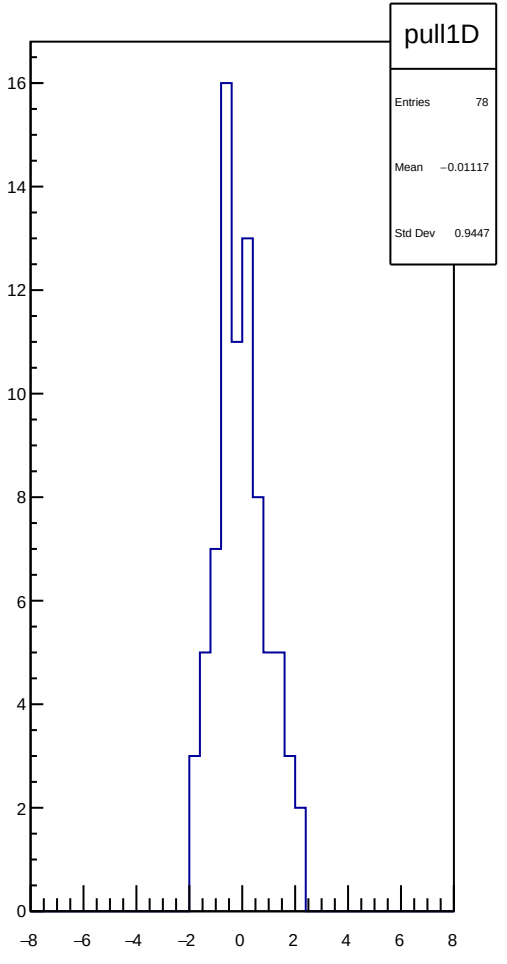

asym_sam_26_dd_rms vs run
χ² / ndf 2612 / 77
p0 1968 ± 1.573
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

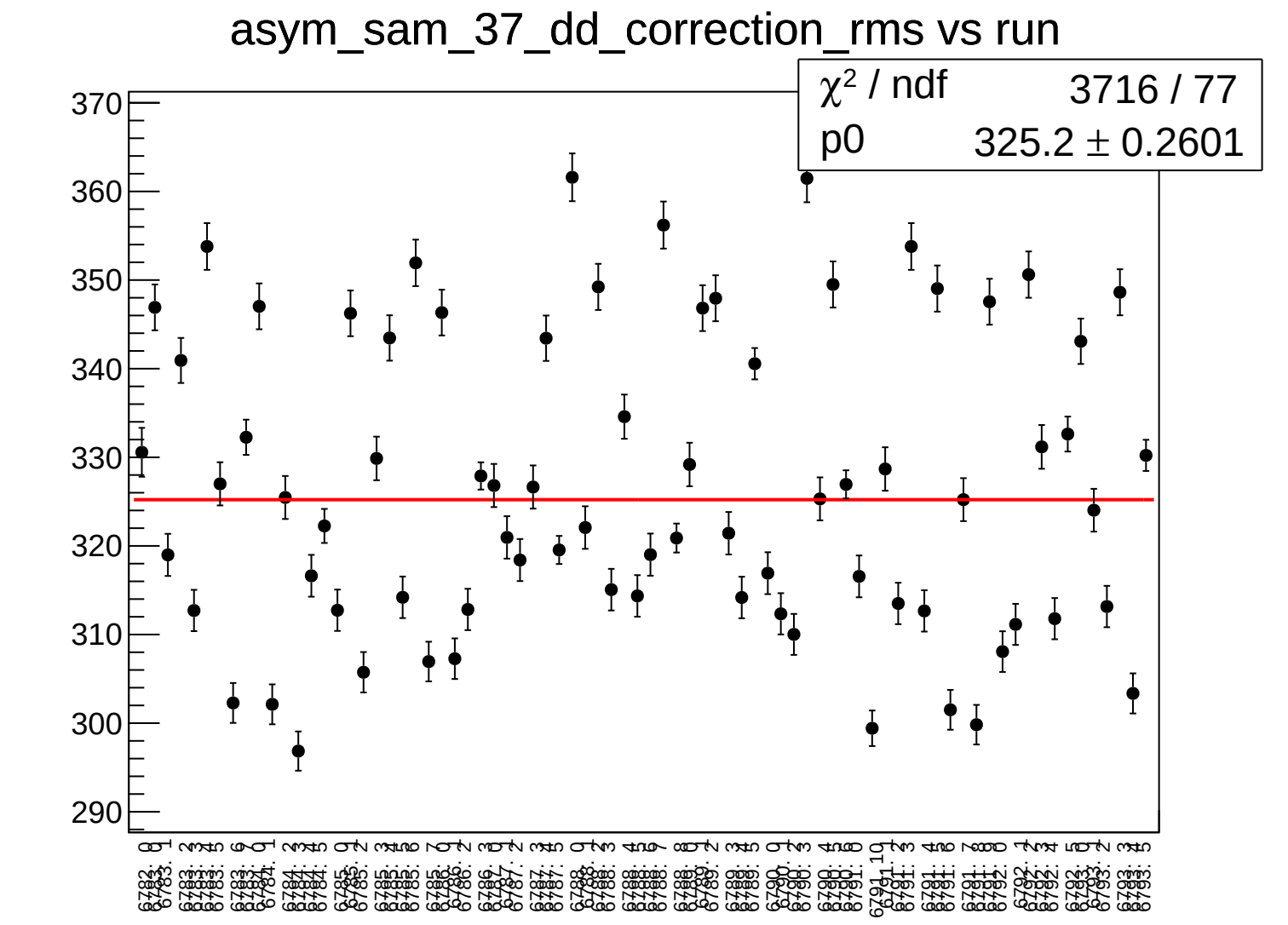

reg_asym_sam_37_dd_mean vs run
χ² / ndf 79.4 / 77
p0 −77.16 ± 63.8
pull
Entries 78
Mean 4.098
Std Dev 14.89

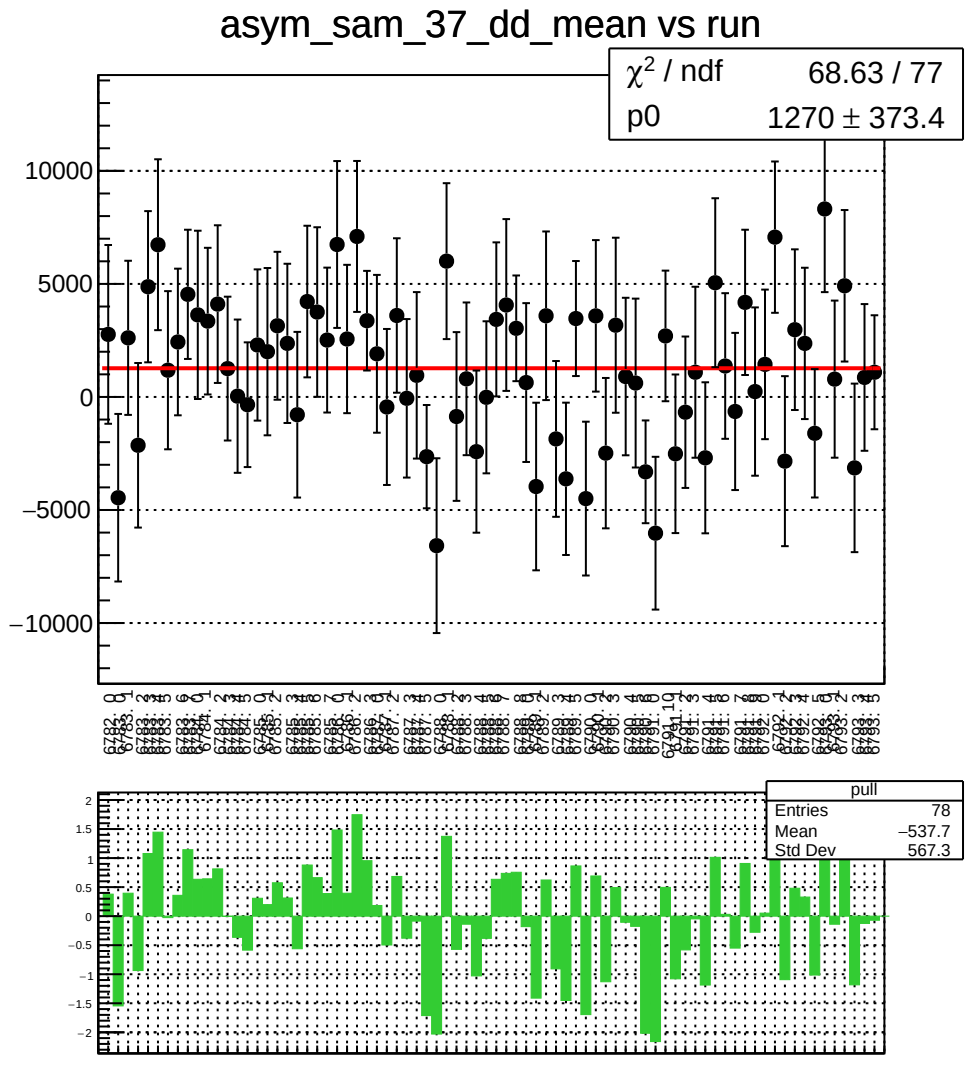

pull1D
Entries 78
Mean −0.03956
Std Dev 1.008

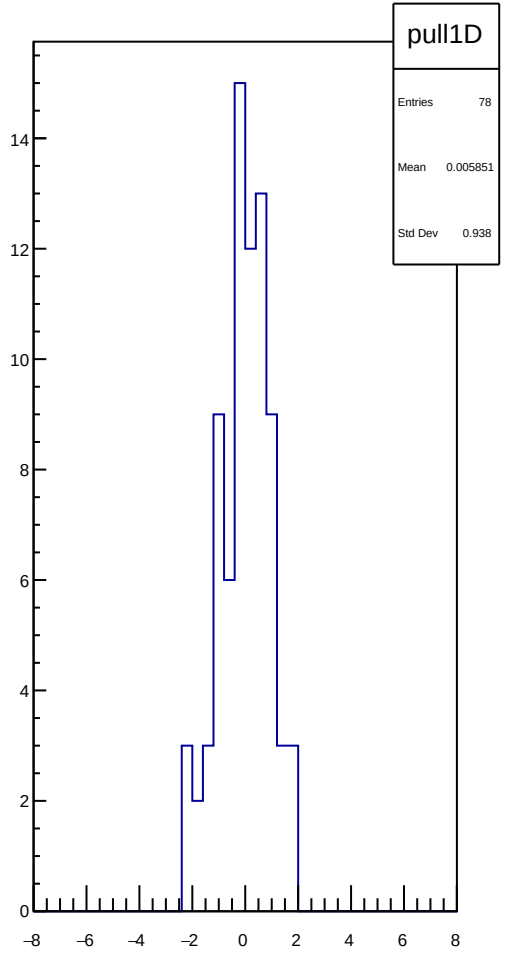

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 1.051e+04 / 77
p0 56.29 ± 0.04511
66
64
62
60
58
56
54
52
50
48
46

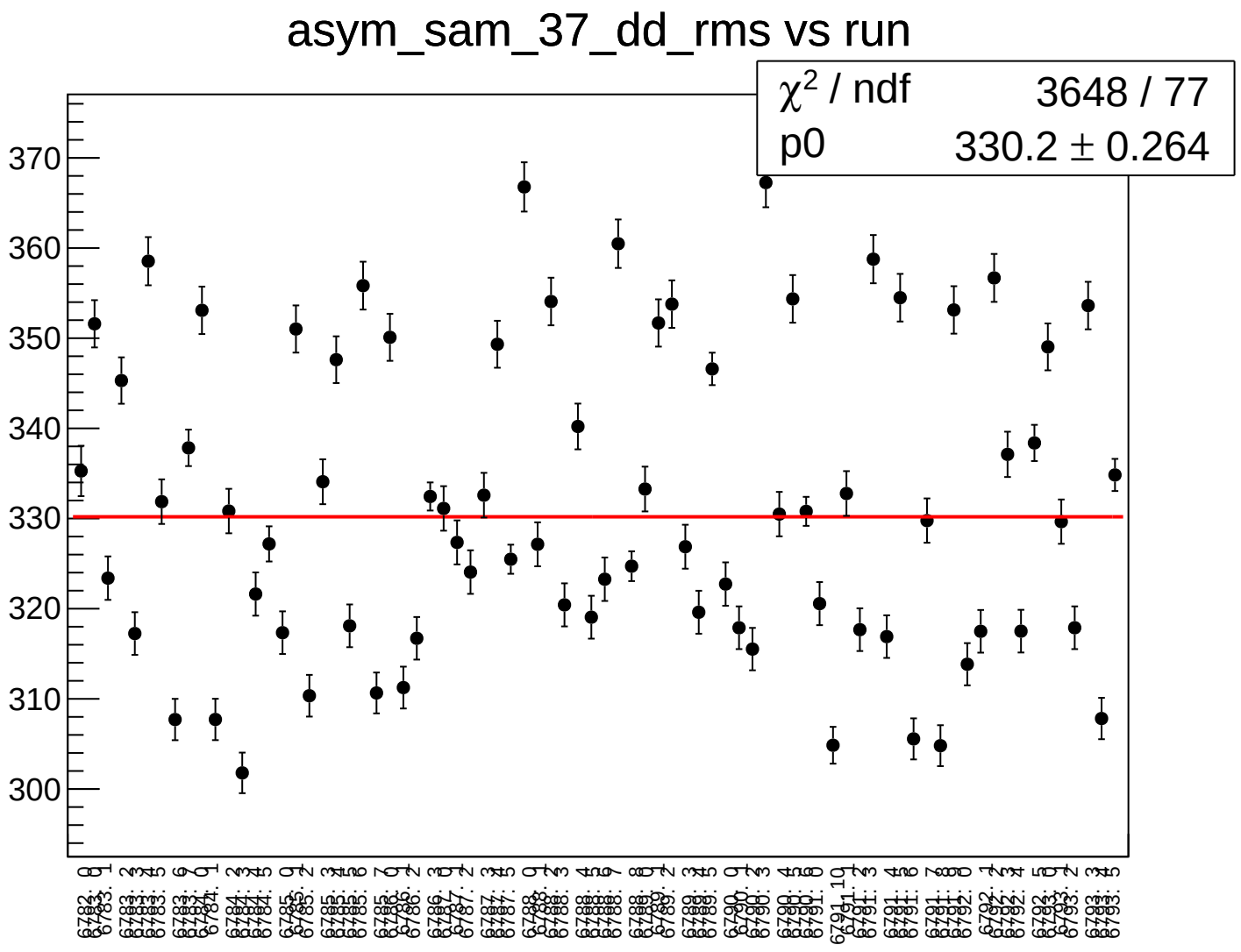

asym_sam_37_dd_correction_mean vs run
χ² / ndf 69.61 / 77
p0 −1357 ± 367.8
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −288.2
Std Dev 317.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

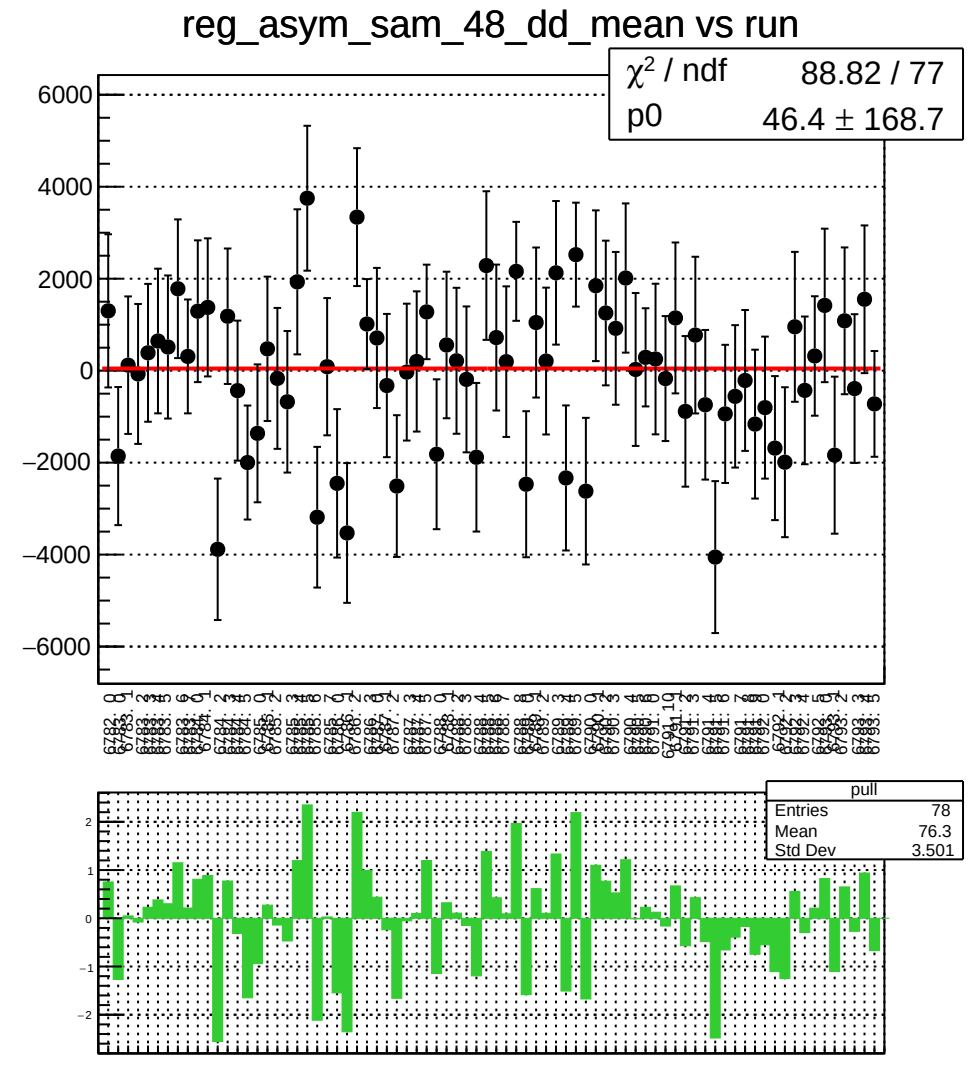

pull1D
Entries 78
Mean −0.01117
Std Dev 0.9447
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

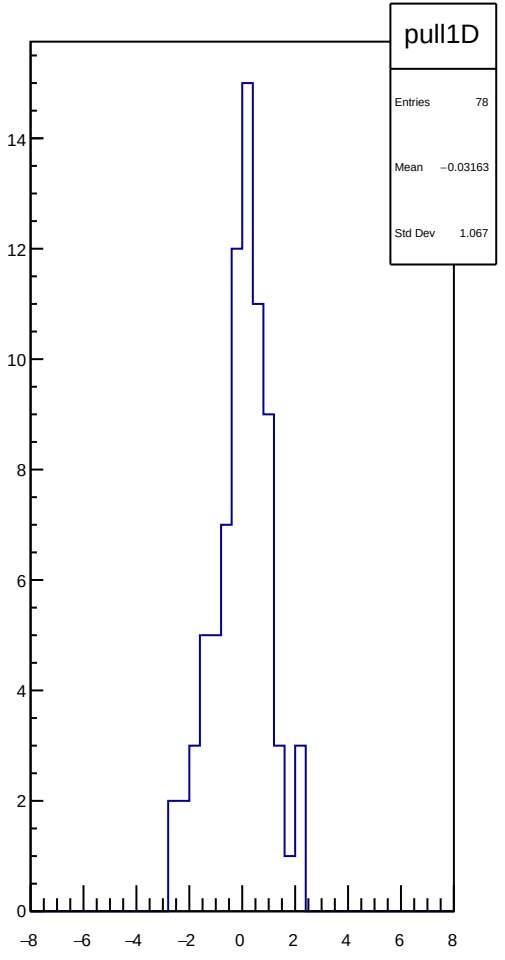

asym_sam_37_dd_correction_rms vs run
χ² / ndf 3716 / 77
p0 325.2 ± 0.2601
370
360
350
340
330
320
310
300
290

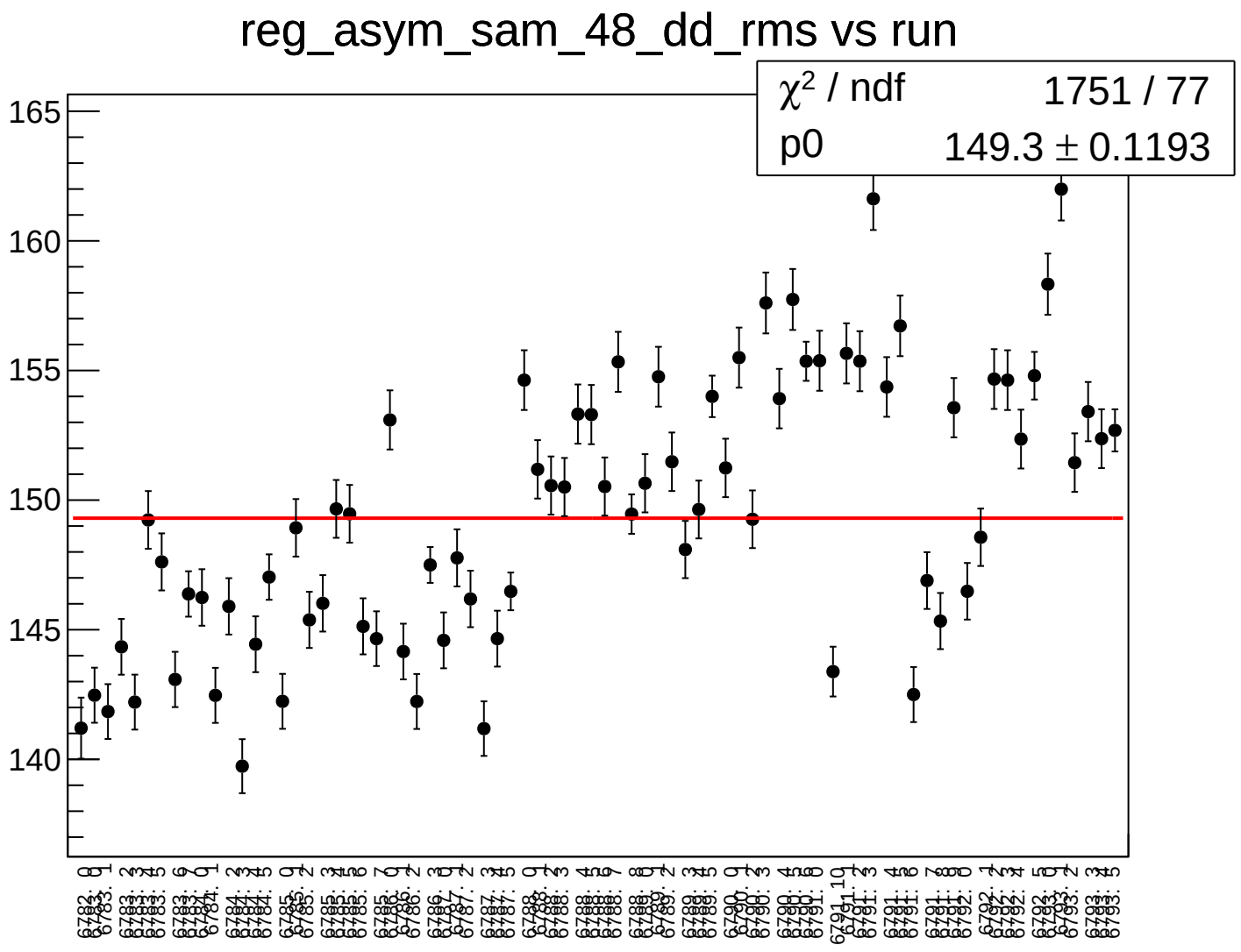

asym_sam_37_dd_mean vs run
χ^2 / ndf 68.63 / 77
p0 1270 ± 373.4
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −537.7
Std Dev 567.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

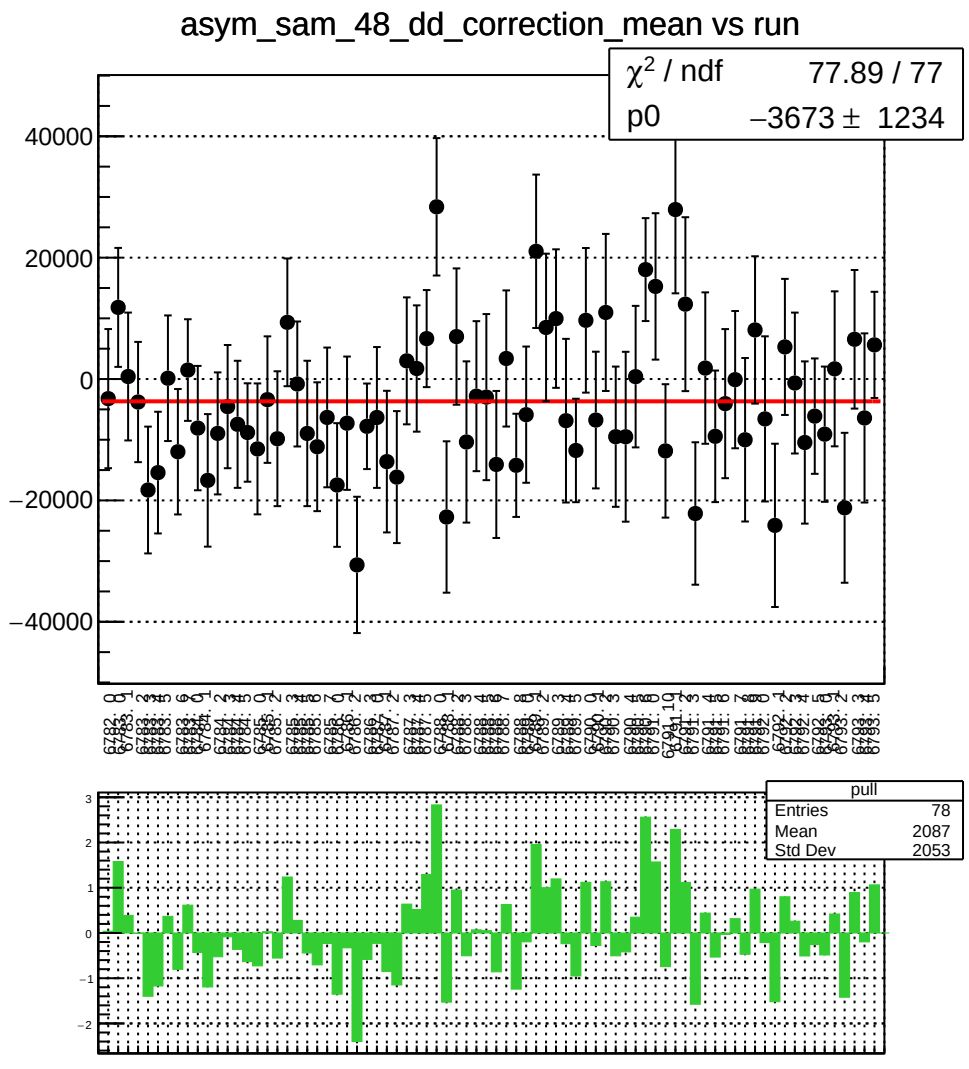

pull1D
Entries 78
Mean 0.005851
Std Dev 0.938
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

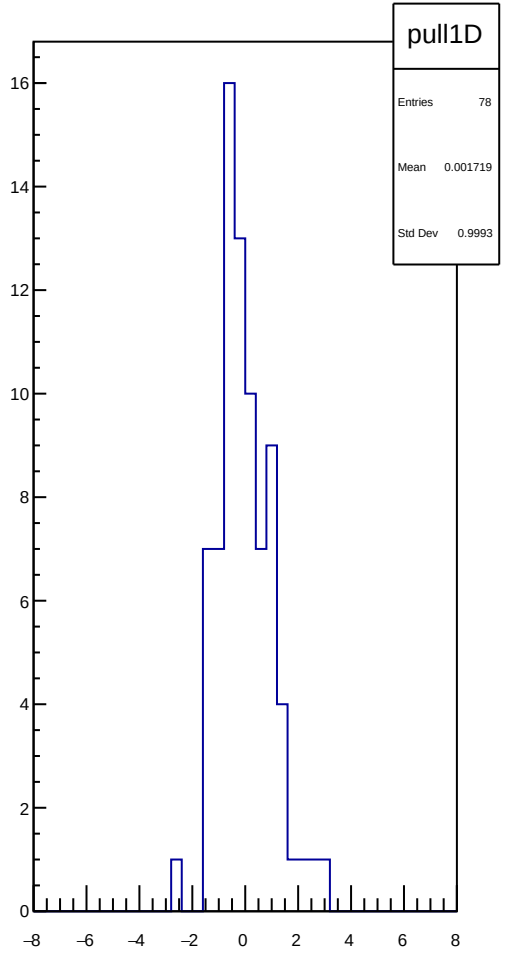

asym_sam_37_dd_rms vs run
χ^2 / ndf 3648 / 77
p0 330.2 ± 0.264
370
360
350
340
330
320
310
300

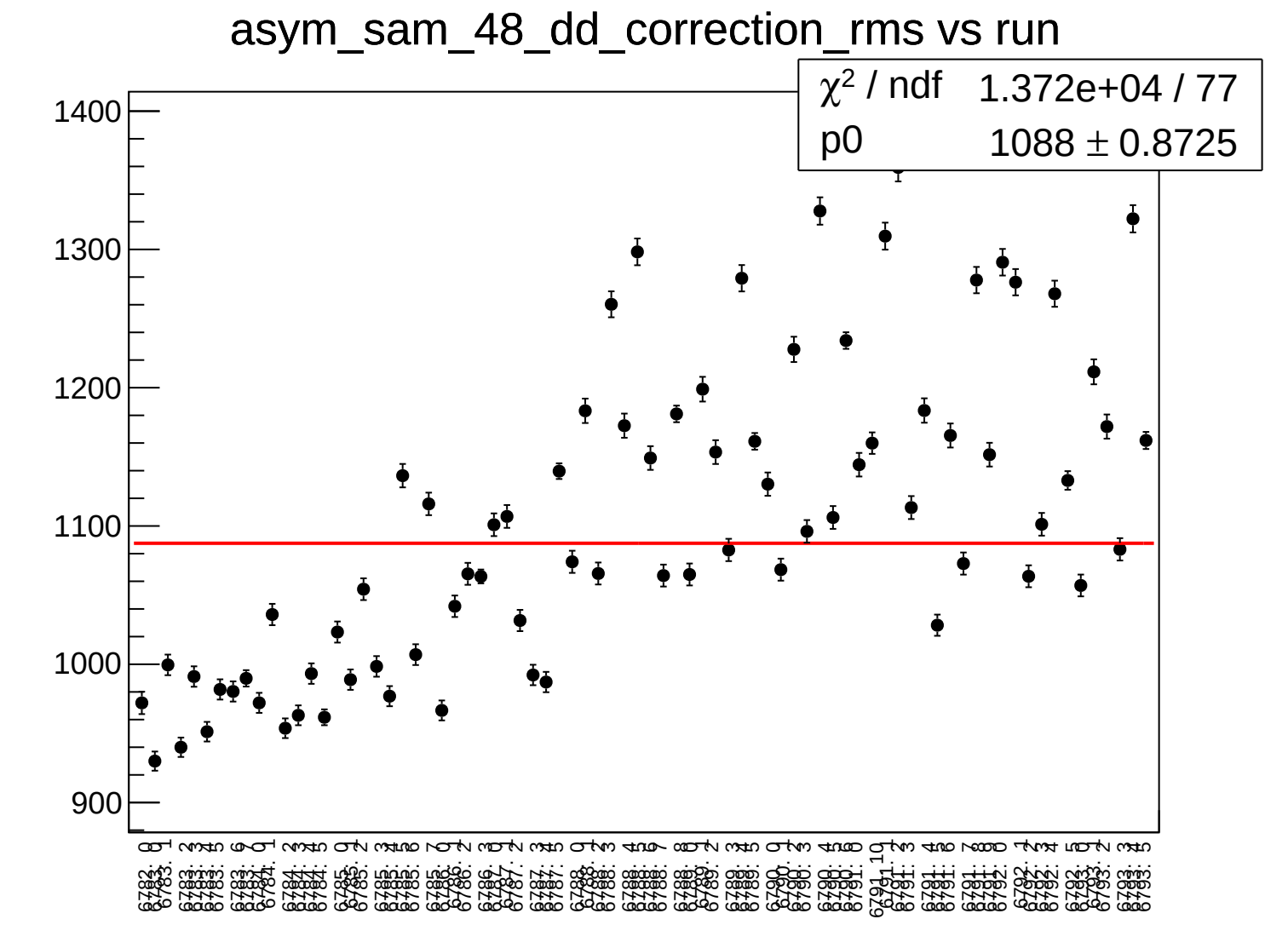

reg_asym_sam_48_dd_mean vs run
χ² / ndf 88.82 / 77
p0 46.4 ± 168.7
pull
Entries 78
Mean 76.3
Std Dev 3.501

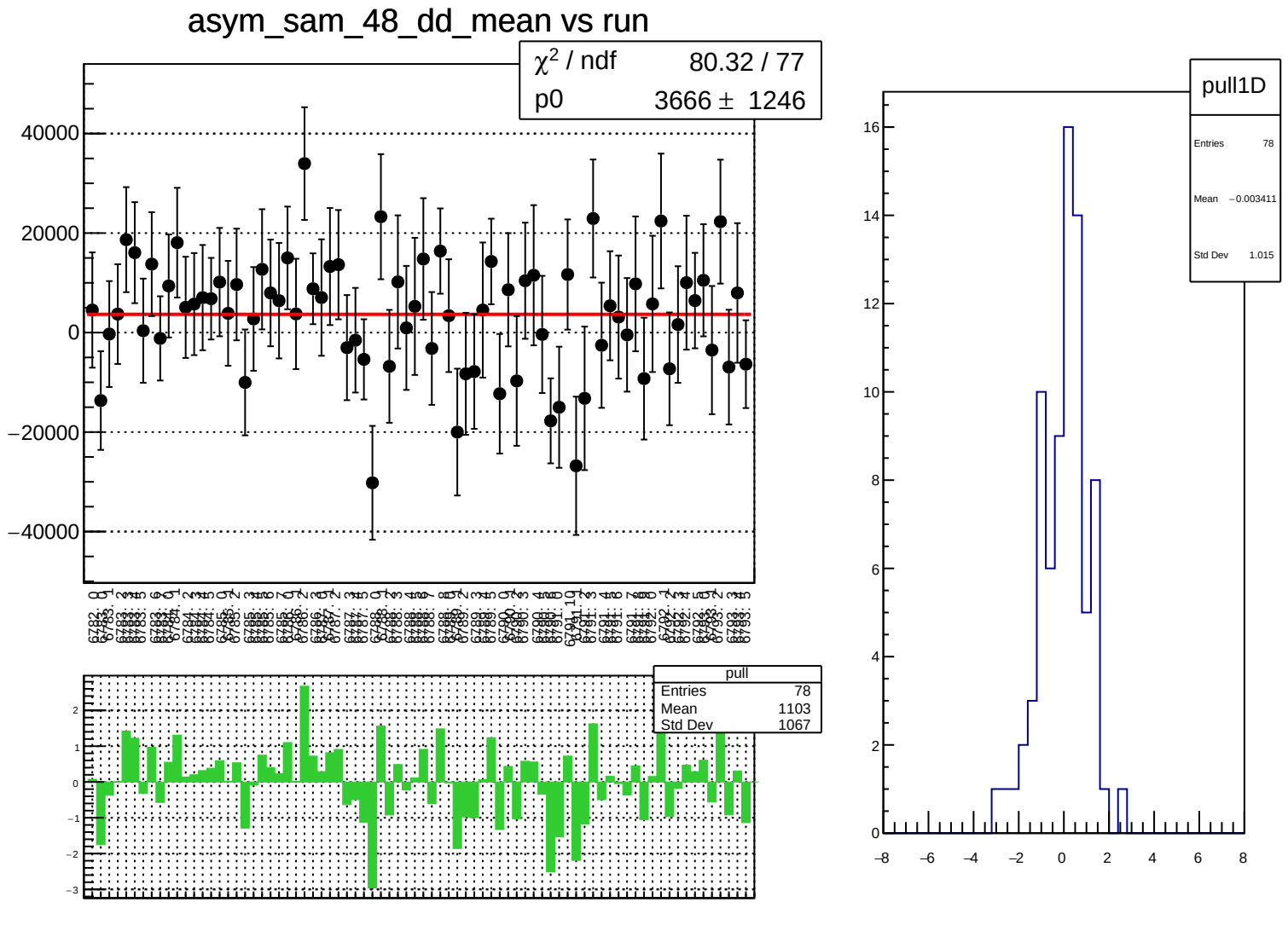

pull1D
Entries 78
Mean −0.03163
Std Dev 1.067

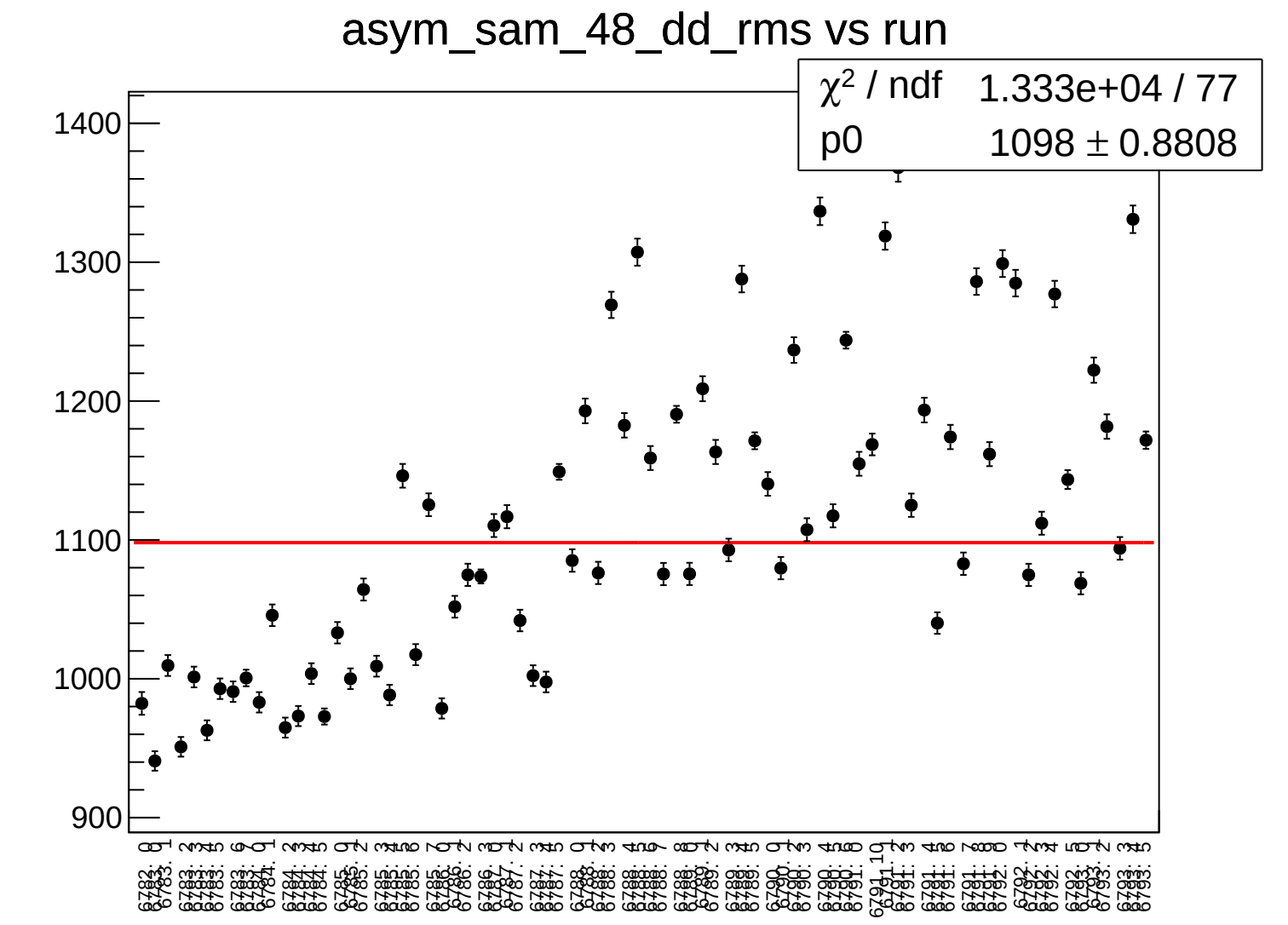

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1751 / 77
p0 149.3 ± 0.1193
165
160
155
150
145
140

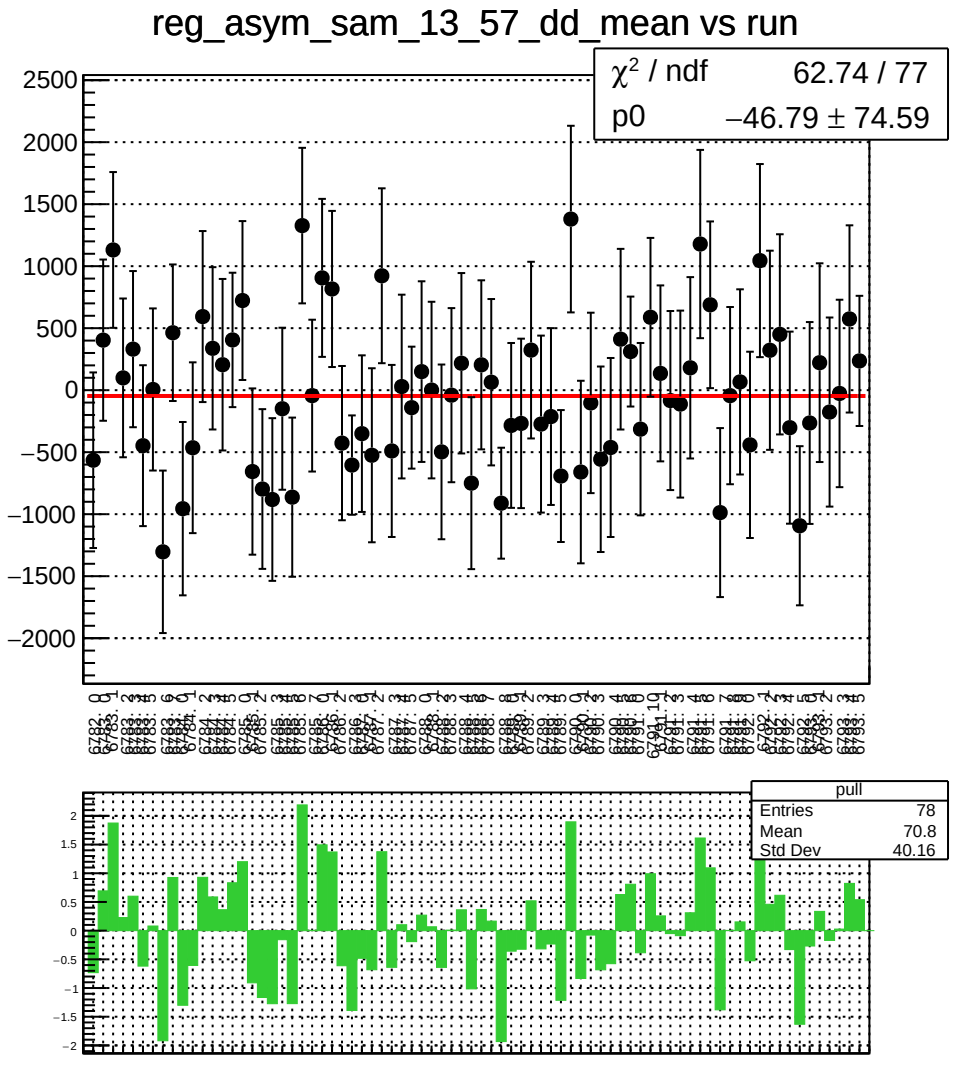

asym_sam_48_dd_correction_mean vs run
χ² / ndf 77.89 / 77
p0 −3673 ± 1234
40000
20000
0
−20000
−40000
pull
Entries 78
Mean 2087
Std Dev 2053
3
2
1
0
−1
−2

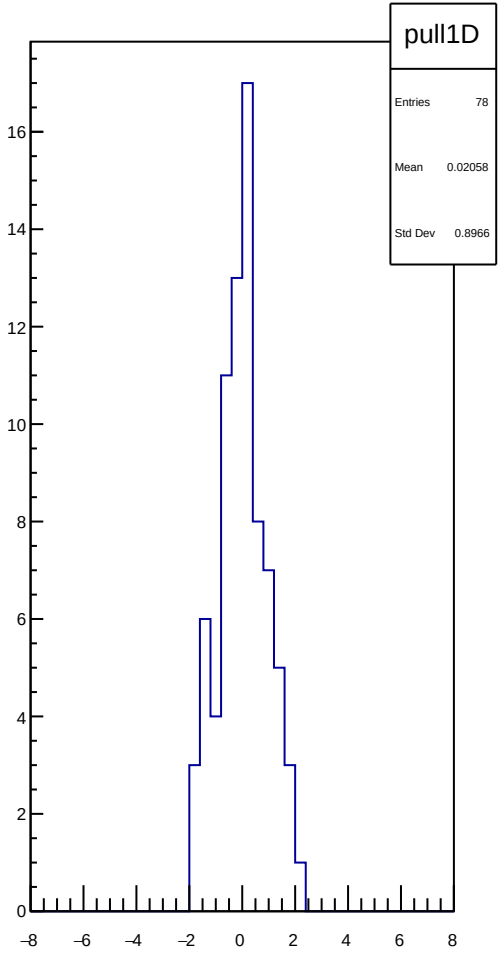

pull1D
Entries 78
Mean 0.001719
Std Dev 0.9993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

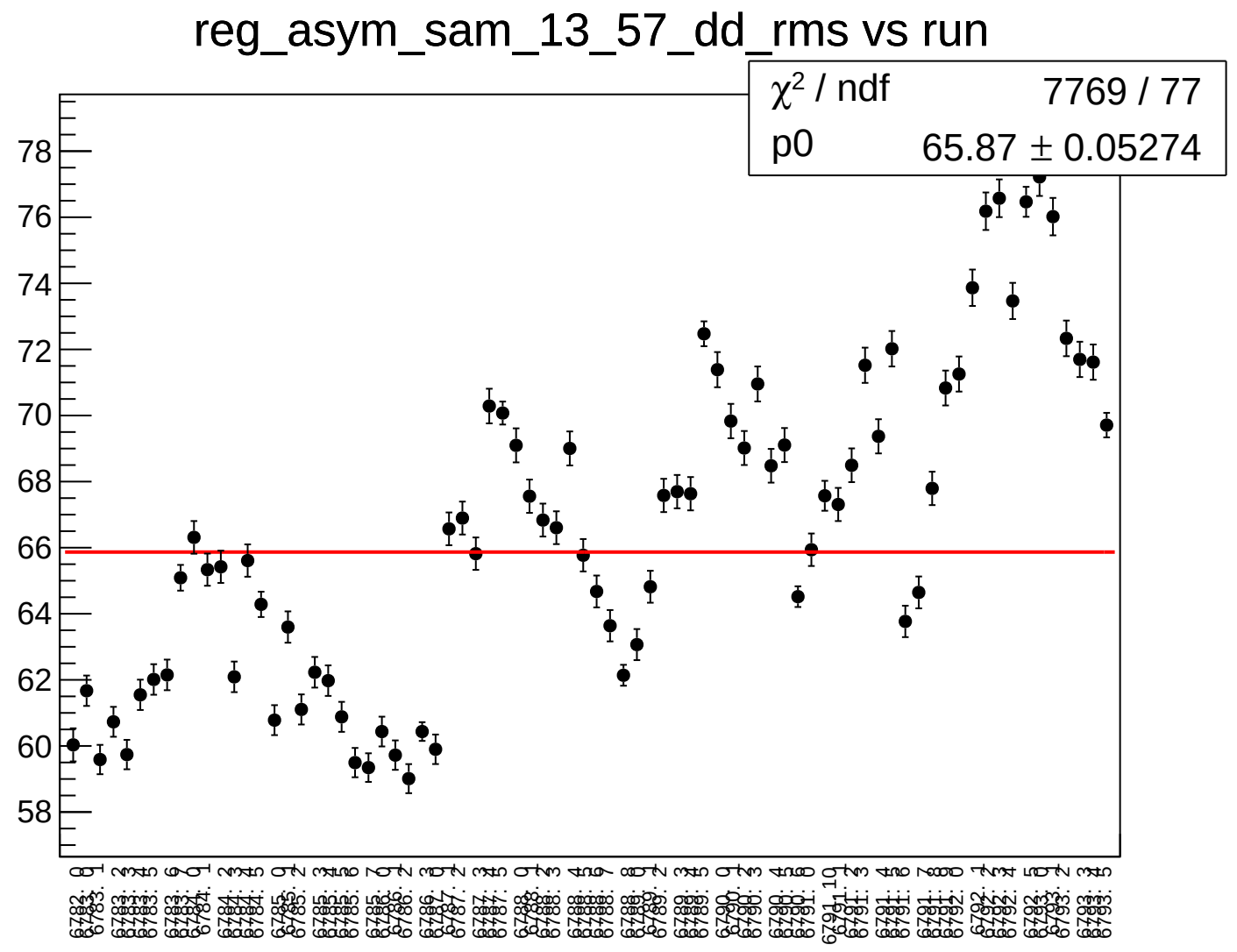

asym_sam_48_dd_correction_rms vs run
χ² / ndf 1.372e+04 / 77
p0 1088 ± 0.8725
1400
1300
1200
1100
1000
900

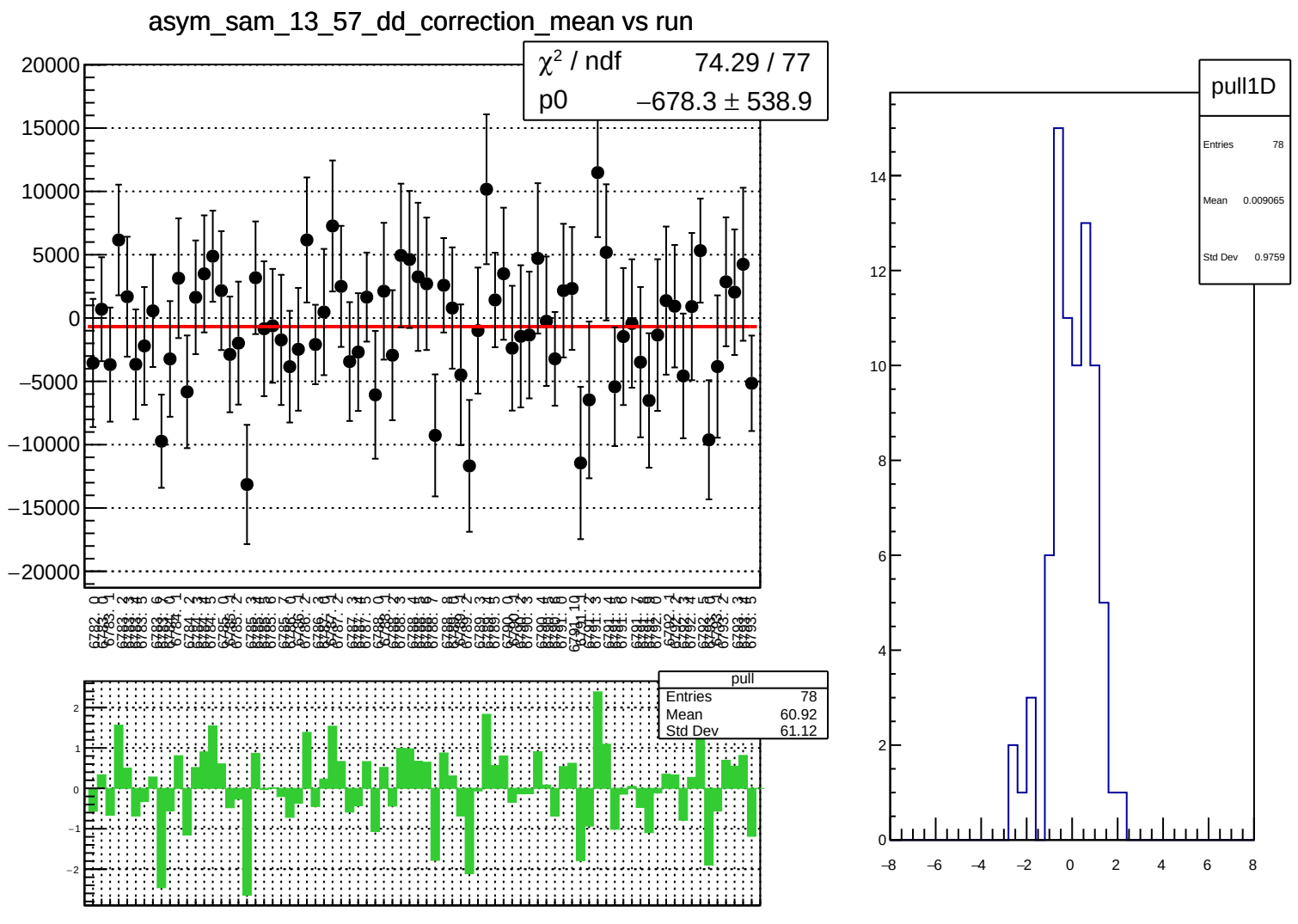

asym_sam_48_dd_mean vs run
χ² / ndf 80.32 / 77
p0 3666 ± 1246
40000
20000
0
−20000
−40000
pull
Entries 78
Mean 1103
Std Dev 1067
pull1D
Entries 78
Mean −0.003411
Std Dev 1.015

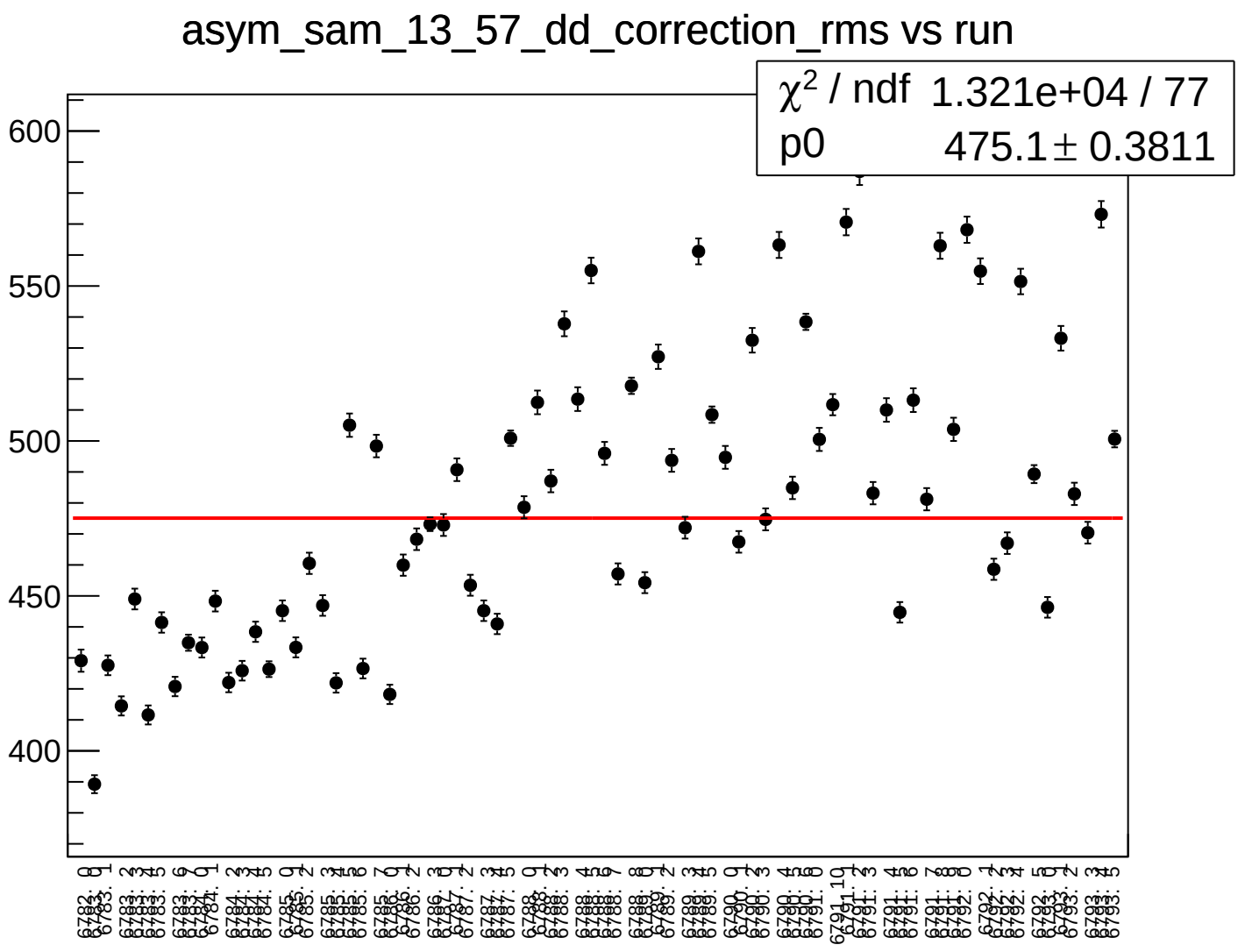

asym_sam_48_dd_rms vs run
χ² / ndf 1.333e+04 / 77
p0 1098 ± 0.8808
1400
1300
1200
1100
1000
900

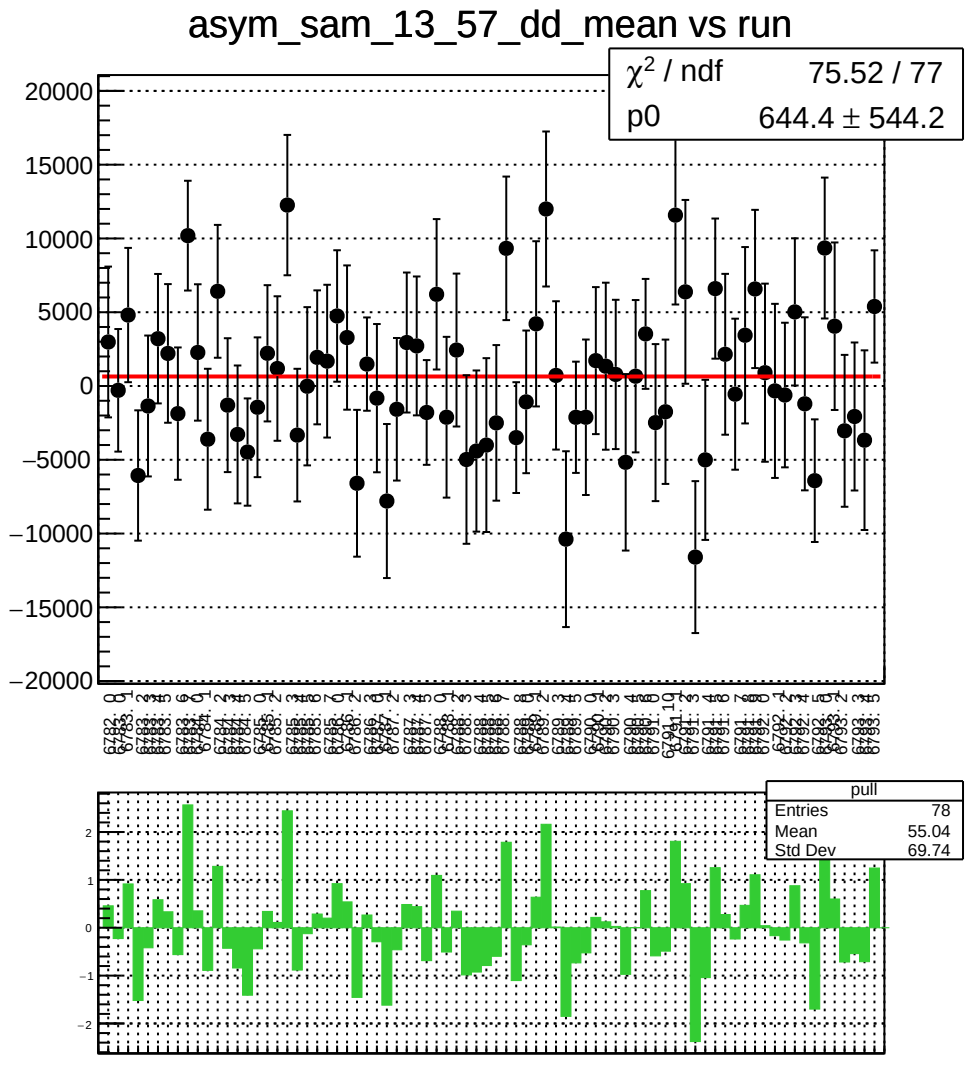

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 62.74 / 77
p0 −46.79 ± 74.59
pull
Entries 78
Mean 70.8
Std Dev 40.16

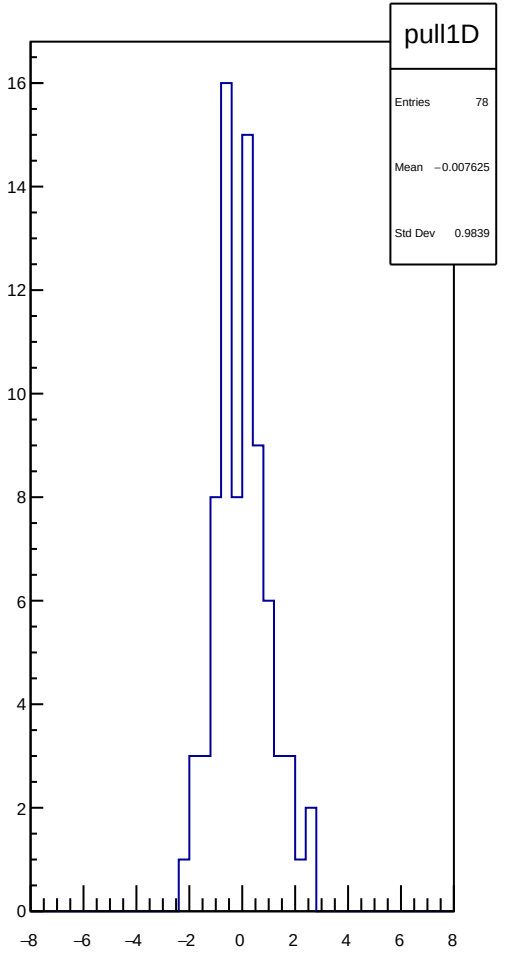

pull1D
Entries 78
Mean 0.02058
Std Dev 0.8966

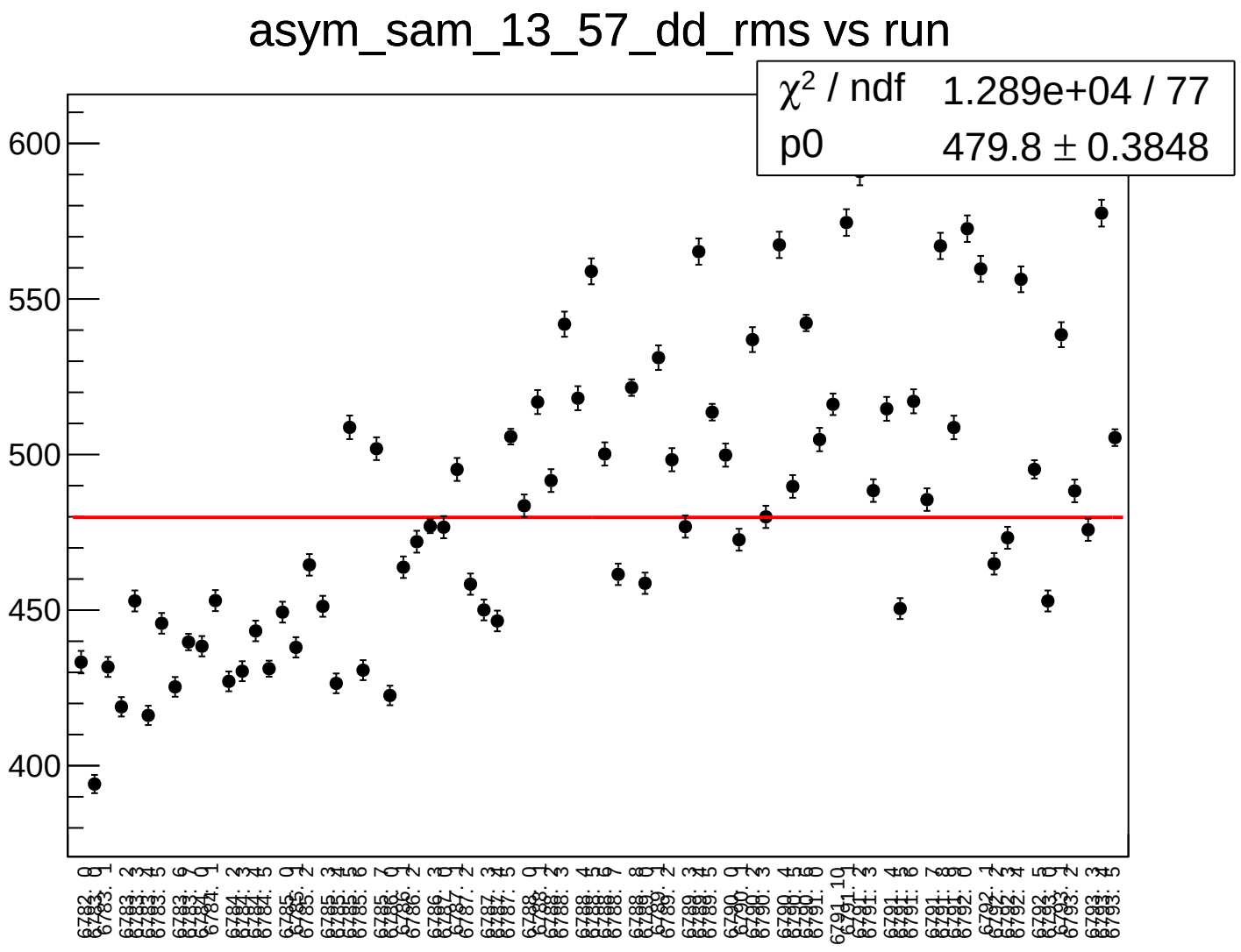

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 7769 / 77
p0 65.87 ± 0.05274
78
76
74
72
70
68
66
64
62
60
58

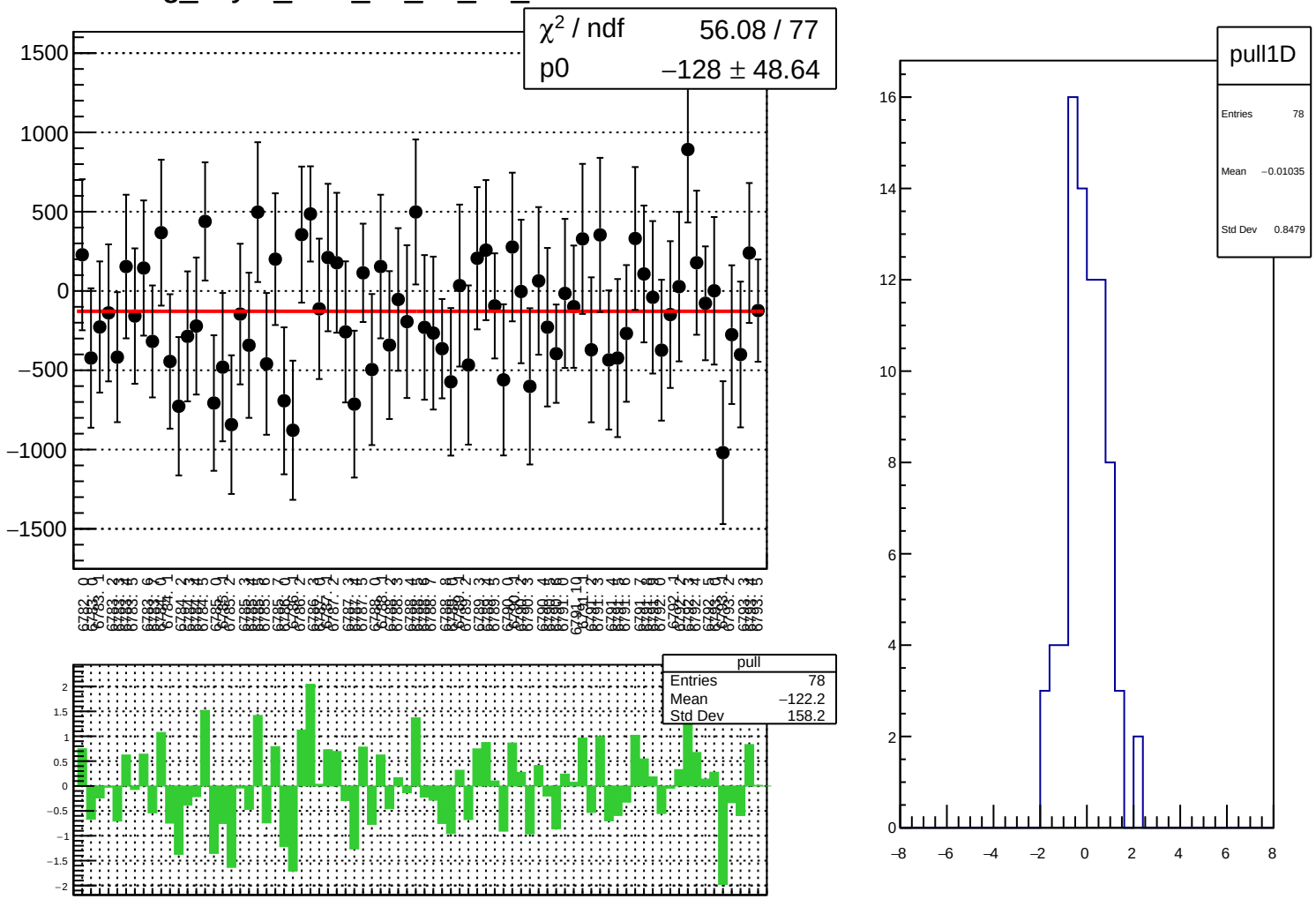

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 74.29 / 77
p0 −678.3 ± 538.9
pull
Entries 78
Mean 60.92
Std Dev 61.12
pull1D
Entries 78
Mean 0.009065
Std Dev 0.9759

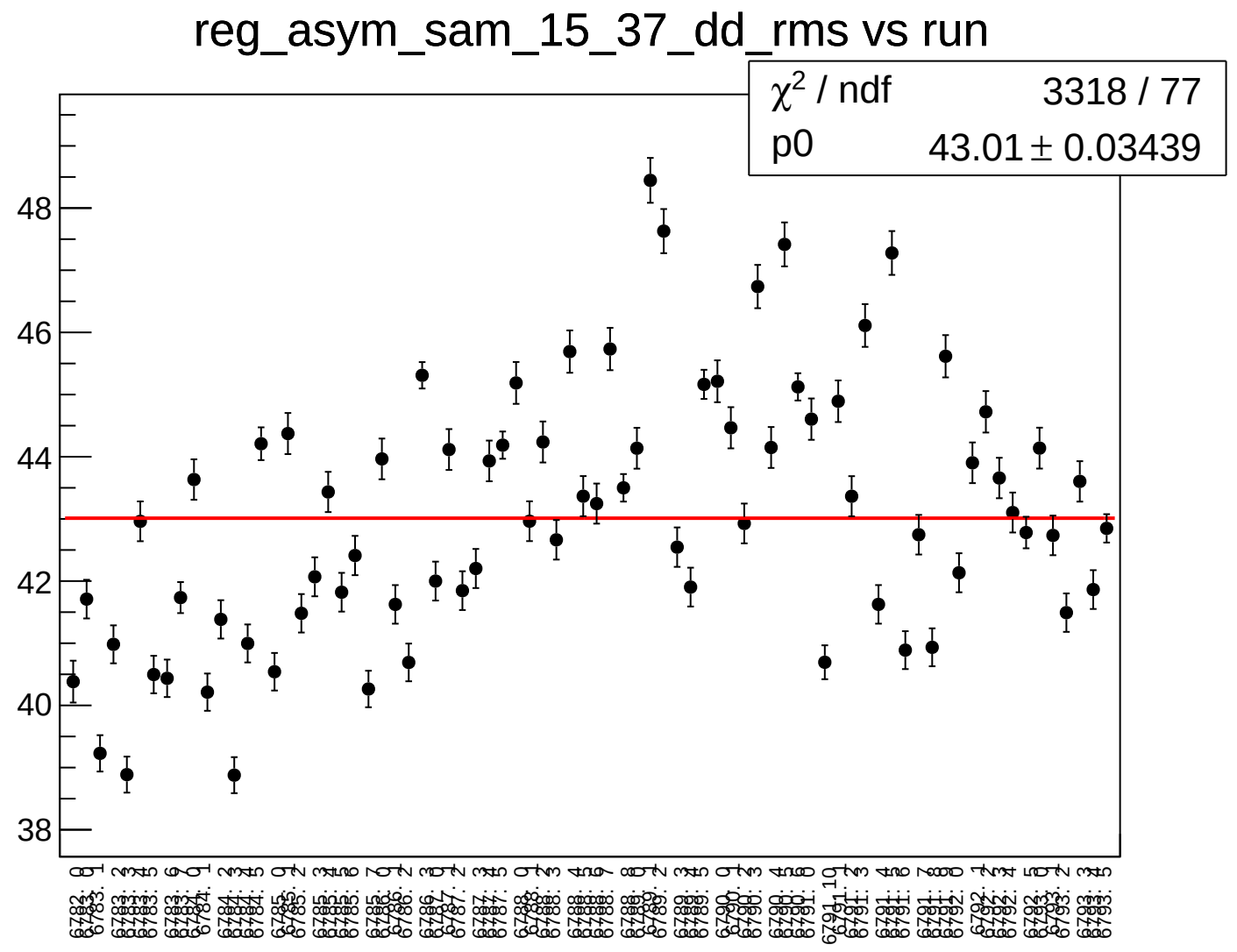

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 1.321e+04 / 77
p0 475.1 ± 0.3811
600
550
500
450
400

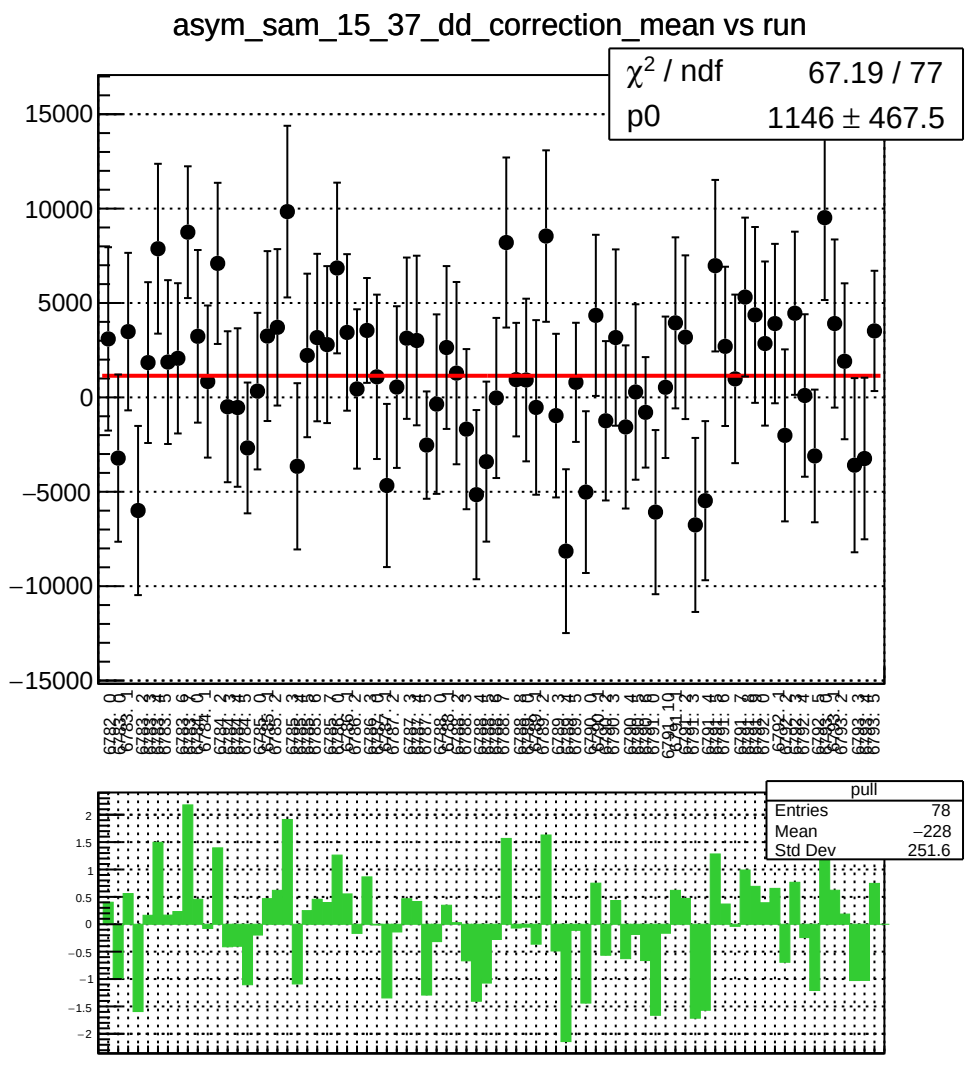

asym_sam_13_57_dd_mean vs run
χ² / ndf 75.52 / 77
p0 644.4 ± 544.2
pull
Entries 78
Mean 55.04
Std Dev 69.74

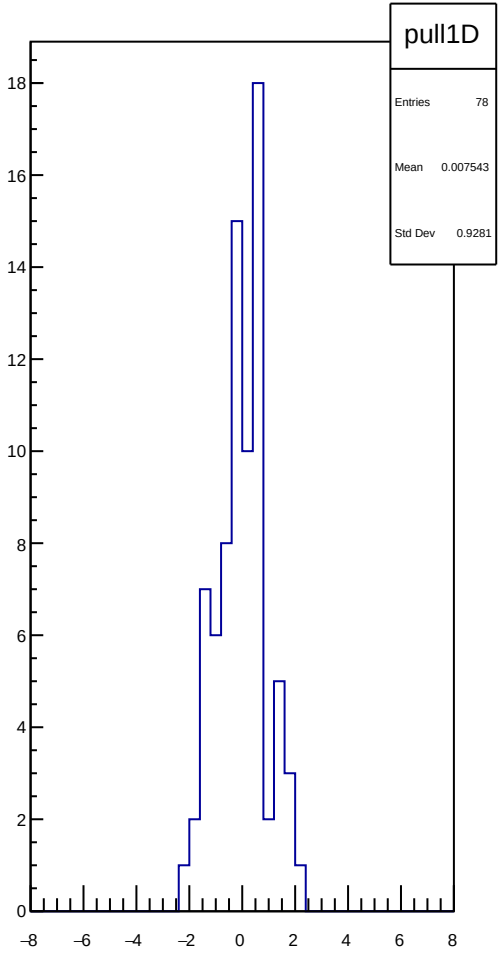

pull1D
Entries 78
Mean −0.007625
Std Dev 0.9839

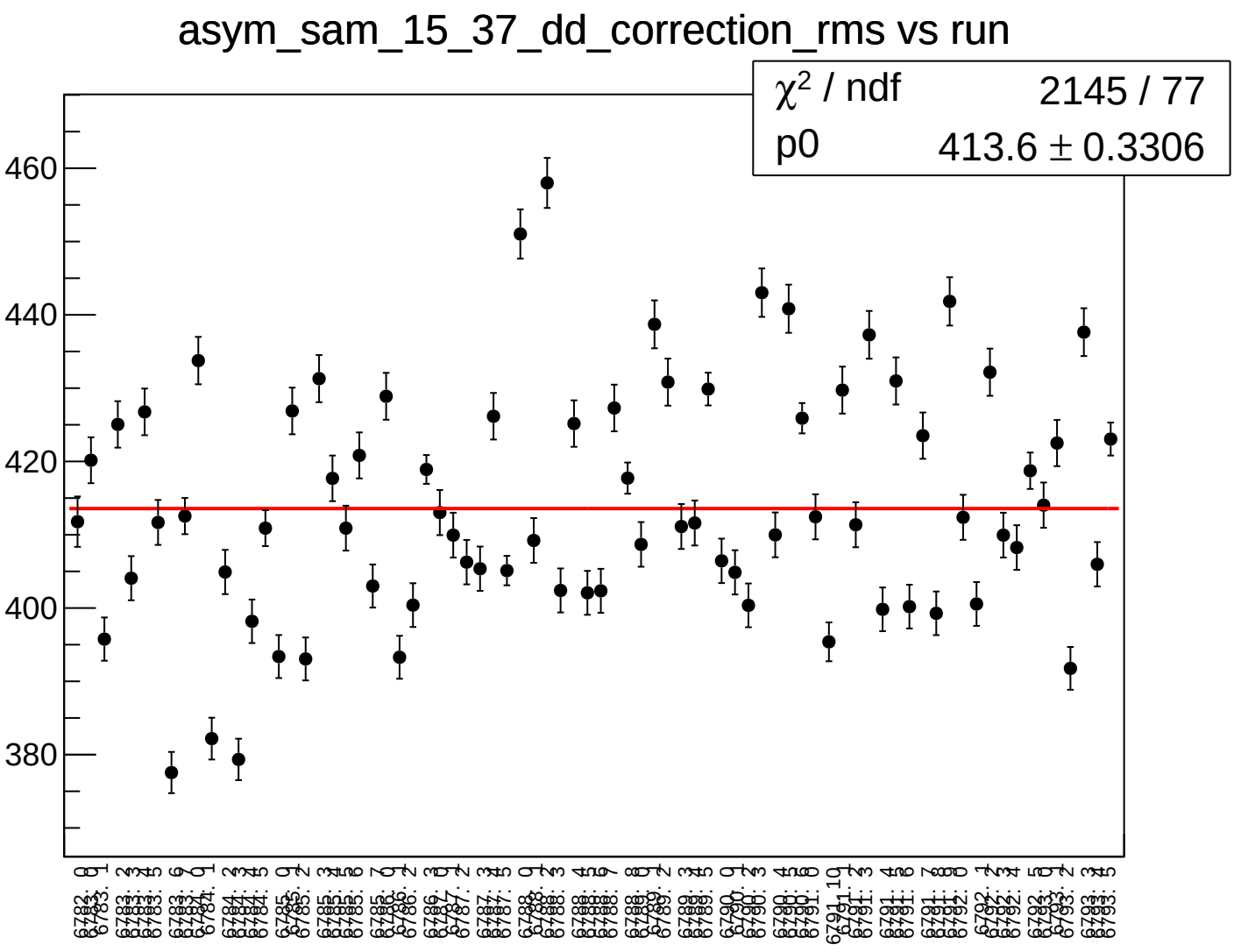

asym_sam_13_57_dd_rms vs run
χ^2 / ndf 1.289e+04 / 77
p0 479.8 ± 0.3848
600
550
500
450
400

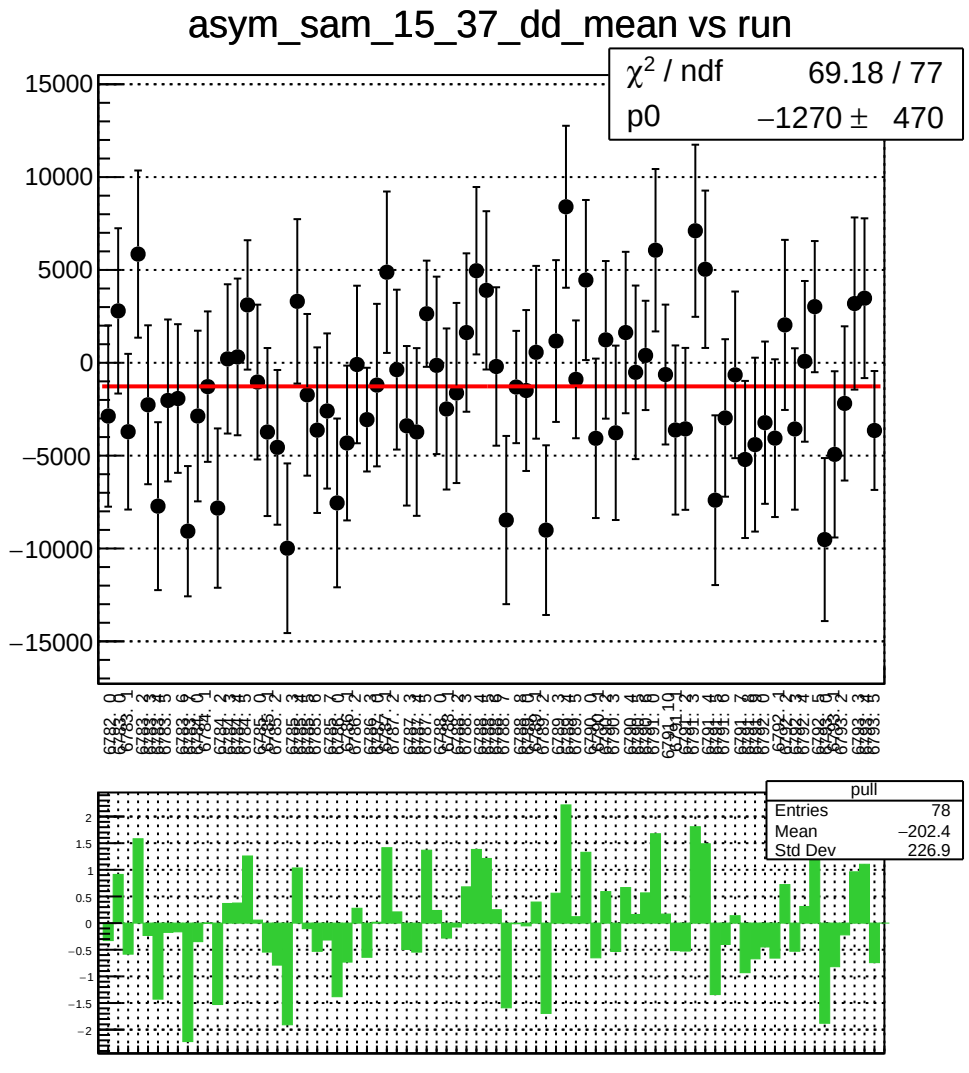

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 56.08 / 77
p0 −128 ± 48.64
pull
Entries 78
Mean −122.2
Std Dev 158.2
pull1D
Entries 78
Mean −0.01035
Std Dev 0.8479

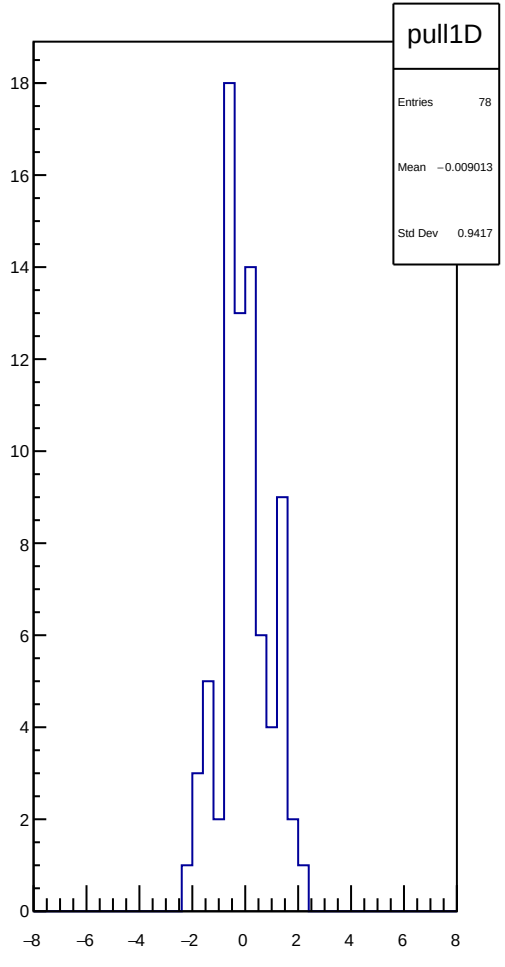

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 3318 / 77
p0 43.01 ± 0.03439
48
46
44
42
40
38

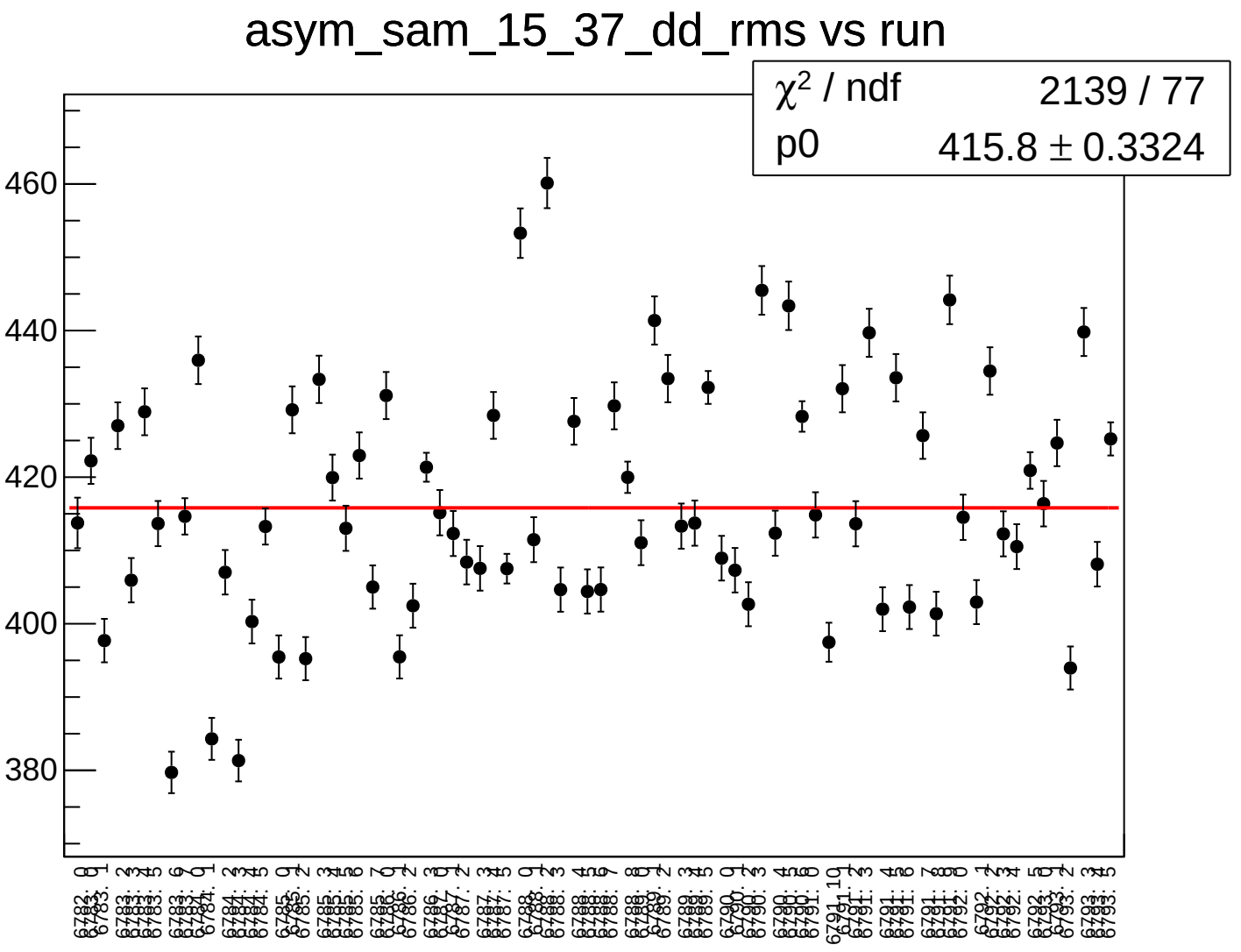

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 67.19 / 77
p0 1146 ± 467.5
pull
Entries 78
Mean −228
Std Dev 251.6

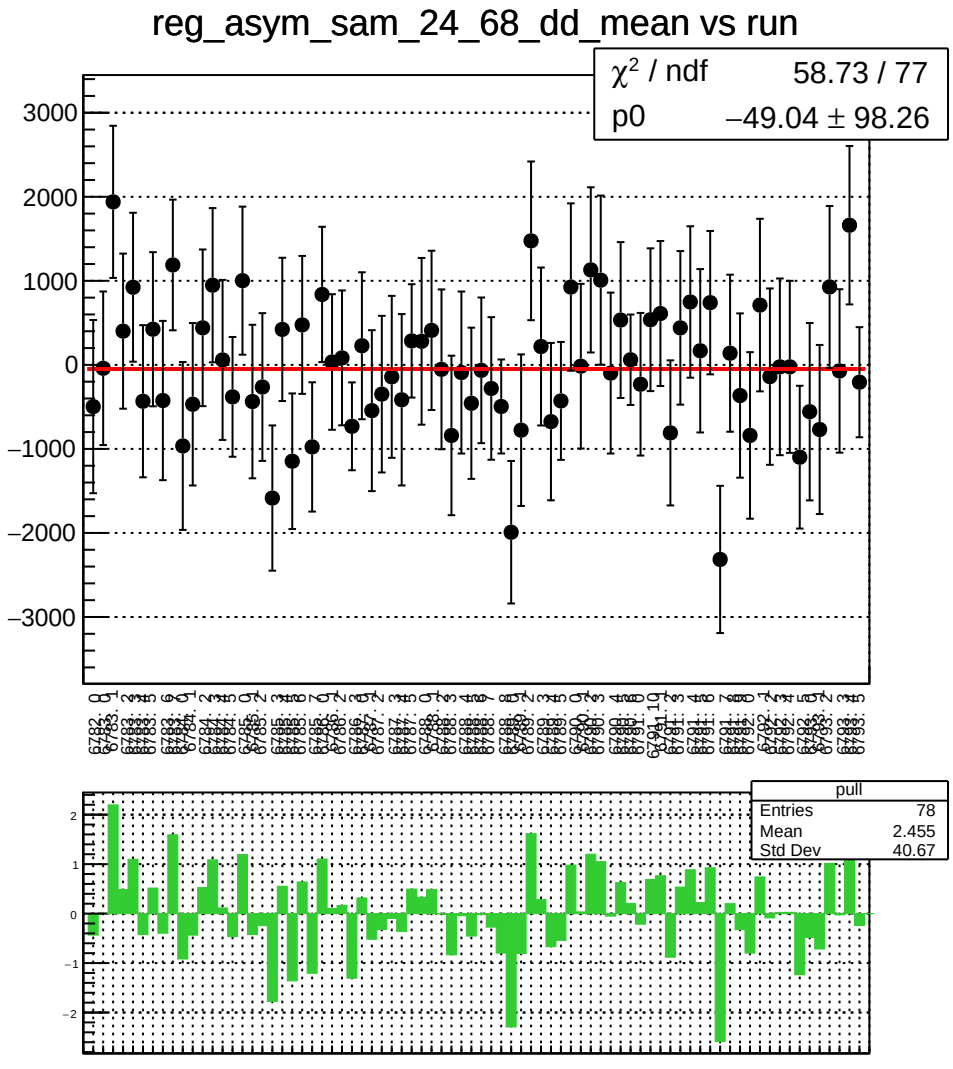

pull1D
Entries 78
Mean 0.007543
Std Dev 0.9281

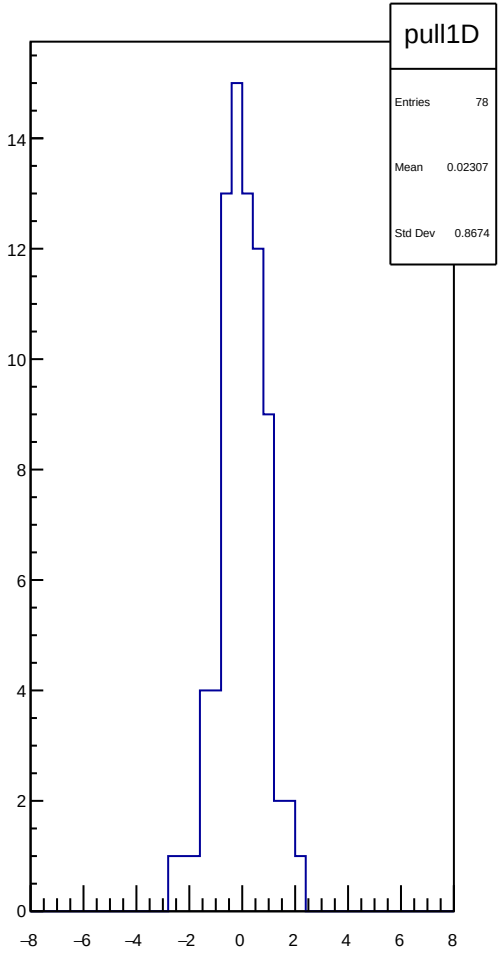

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 2145 / 77
p0 413.6 ± 0.3306
460
440
420
400
380

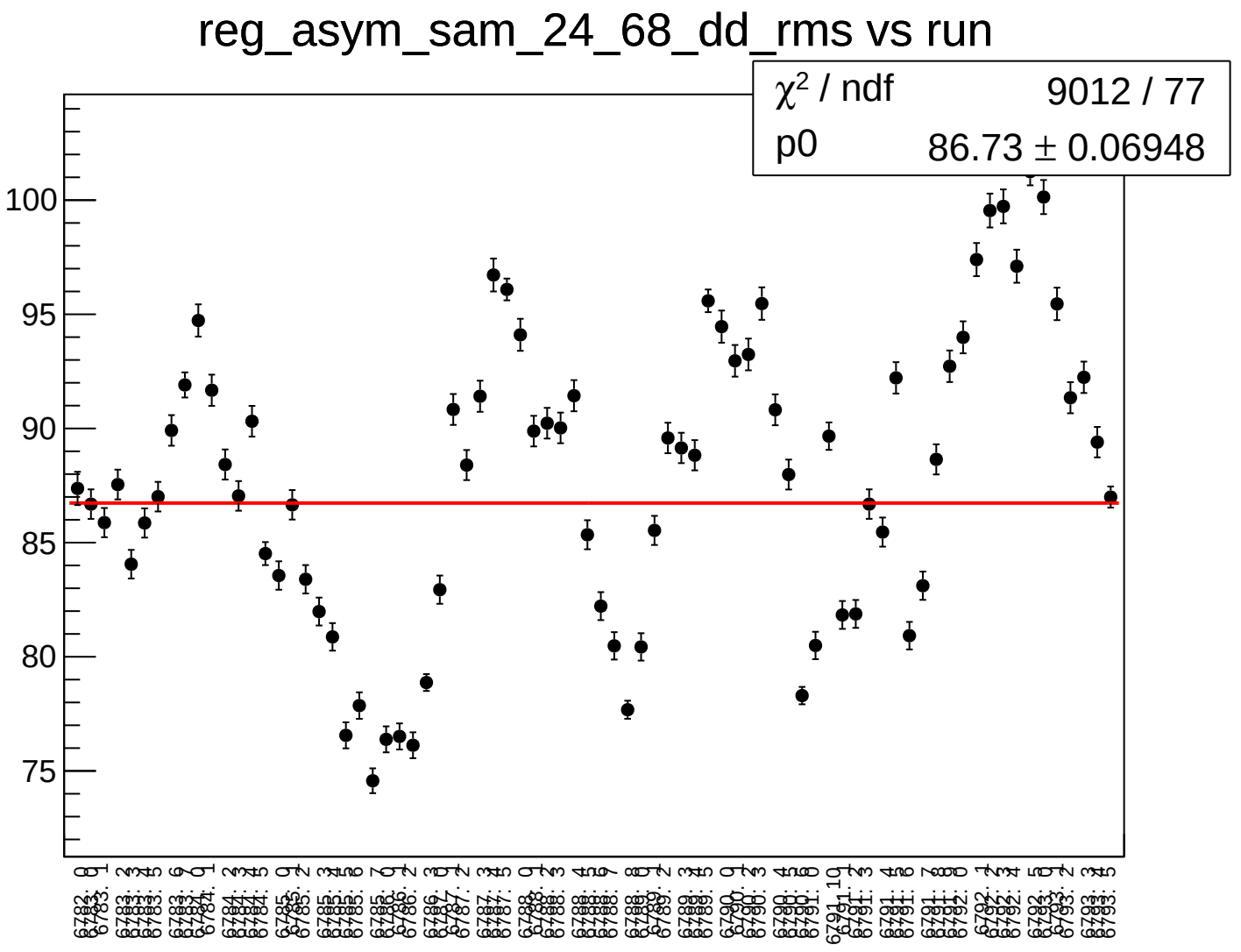

asym_sam_15_37_dd_mean vs run
χ² / ndf 69.18 / 77
p0 −1270 ± 470
pull
Entries 78
Mean −202.4
Std Dev 226.9

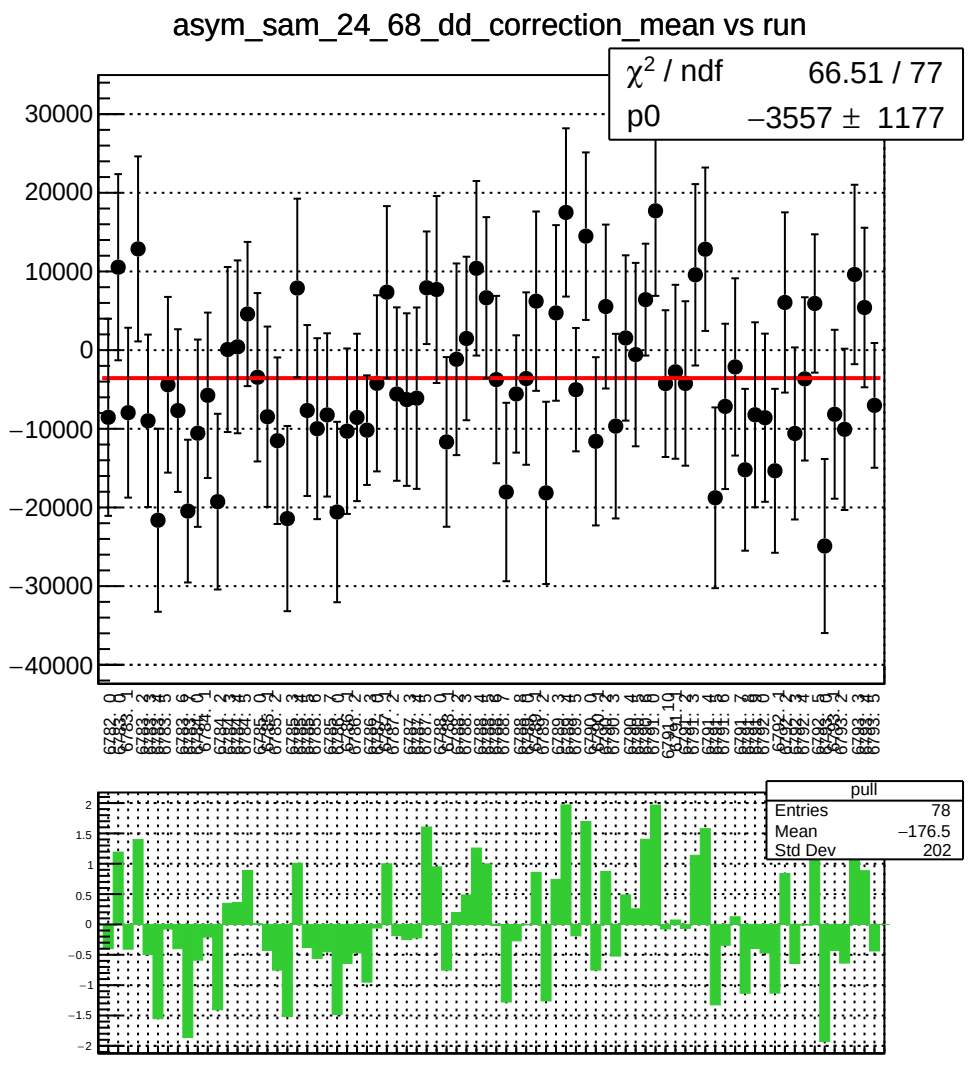

pull1D
Entries 78
Mean −0.009013
Std Dev 0.9417

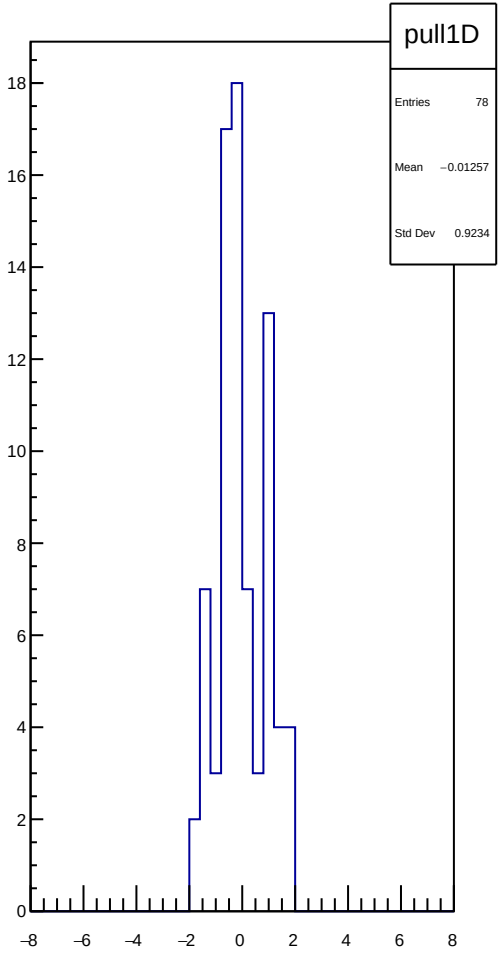

asym_sam_15_37_dd_rms vs run
χ² / ndf 2139 / 77
p0 415.8 ± 0.3324
460
440
420
400
380

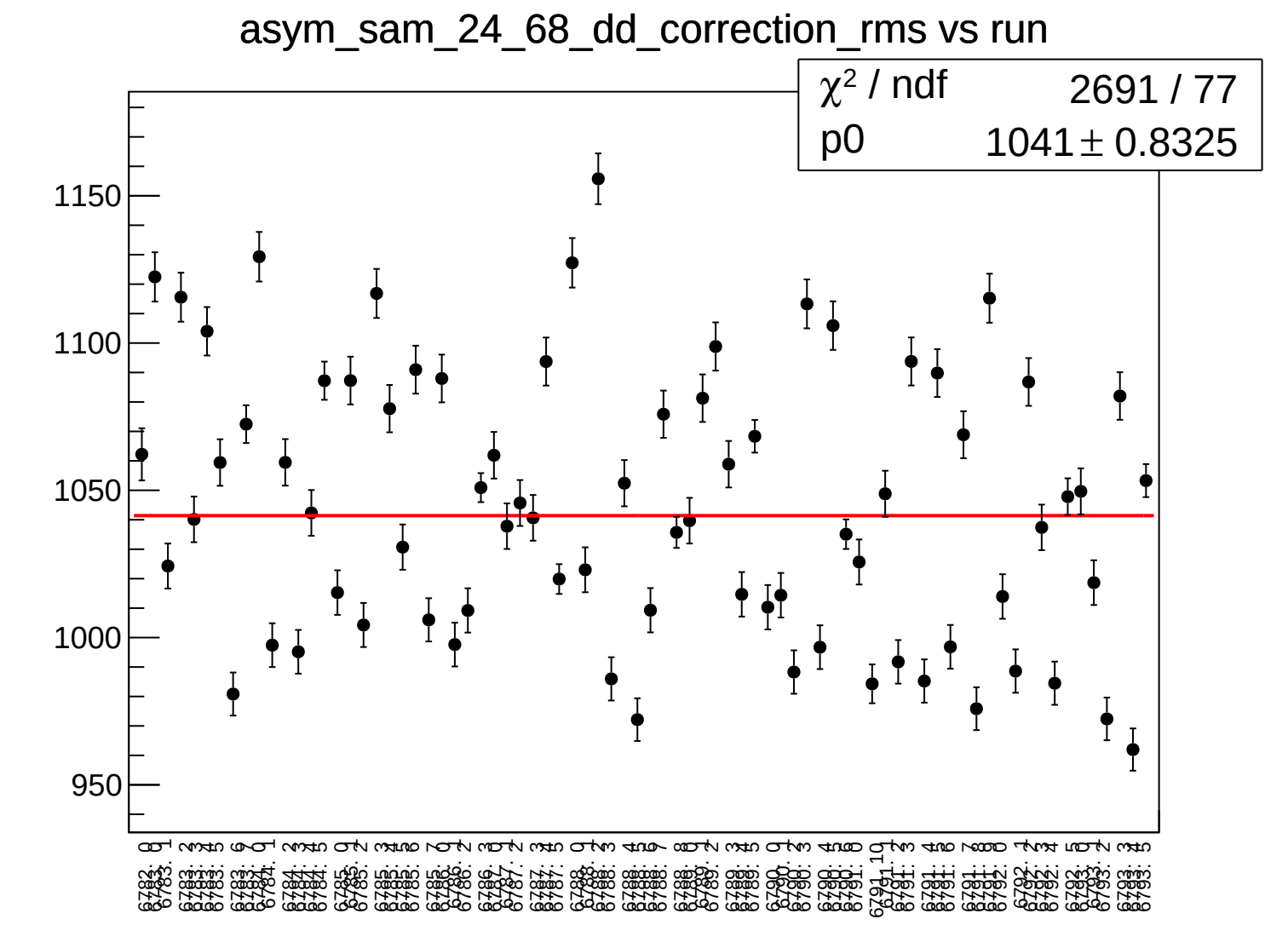

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 58.73 / 77
p0 −49.04 ± 98.26
pull
Entries 78
Mean 2.455
Std Dev 40.67

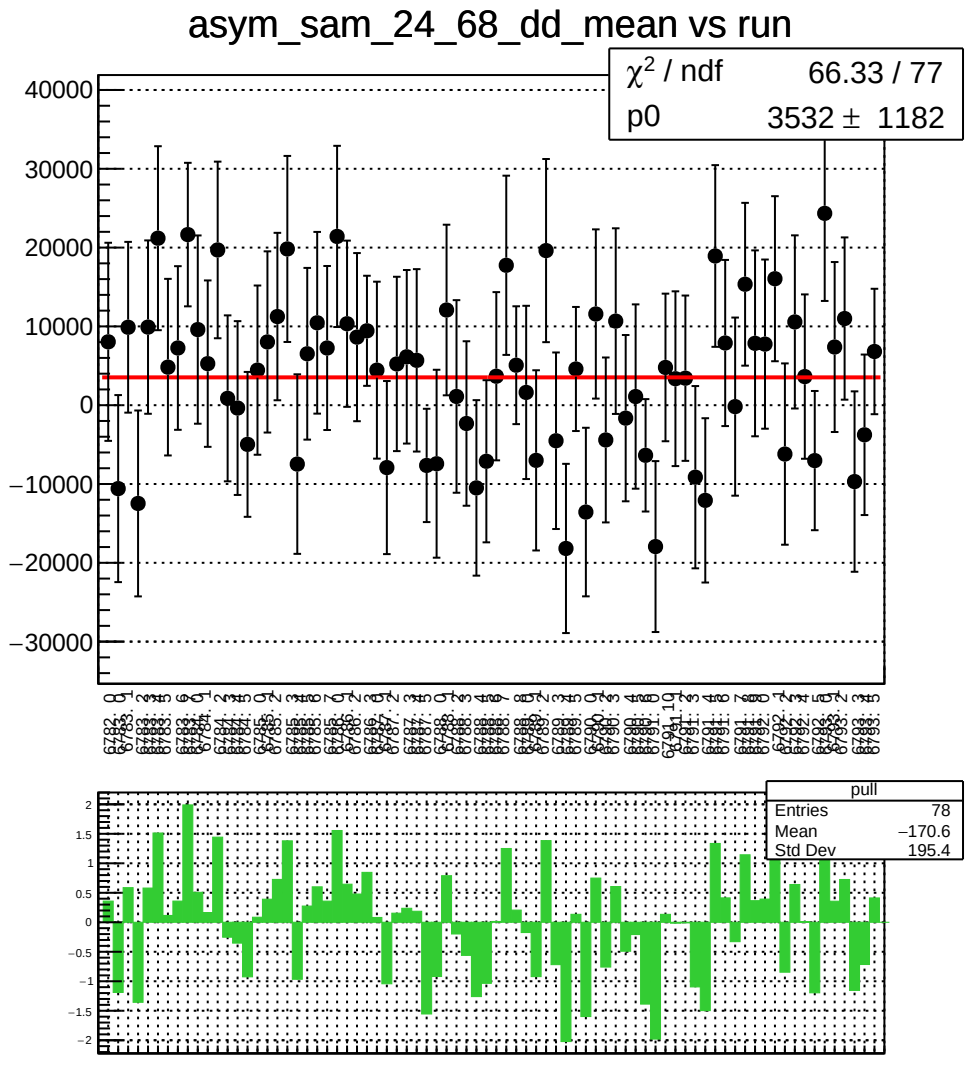

pull1D
Entries 78
Mean 0.02307
Std Dev 0.8674

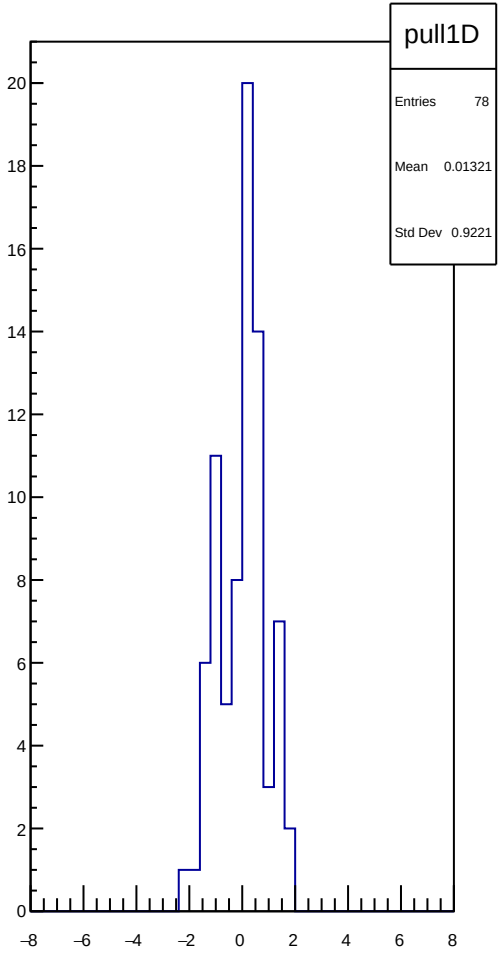

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 9012 / 77
p0 86.73 ± 0.06948
100
95
90
85
80
75

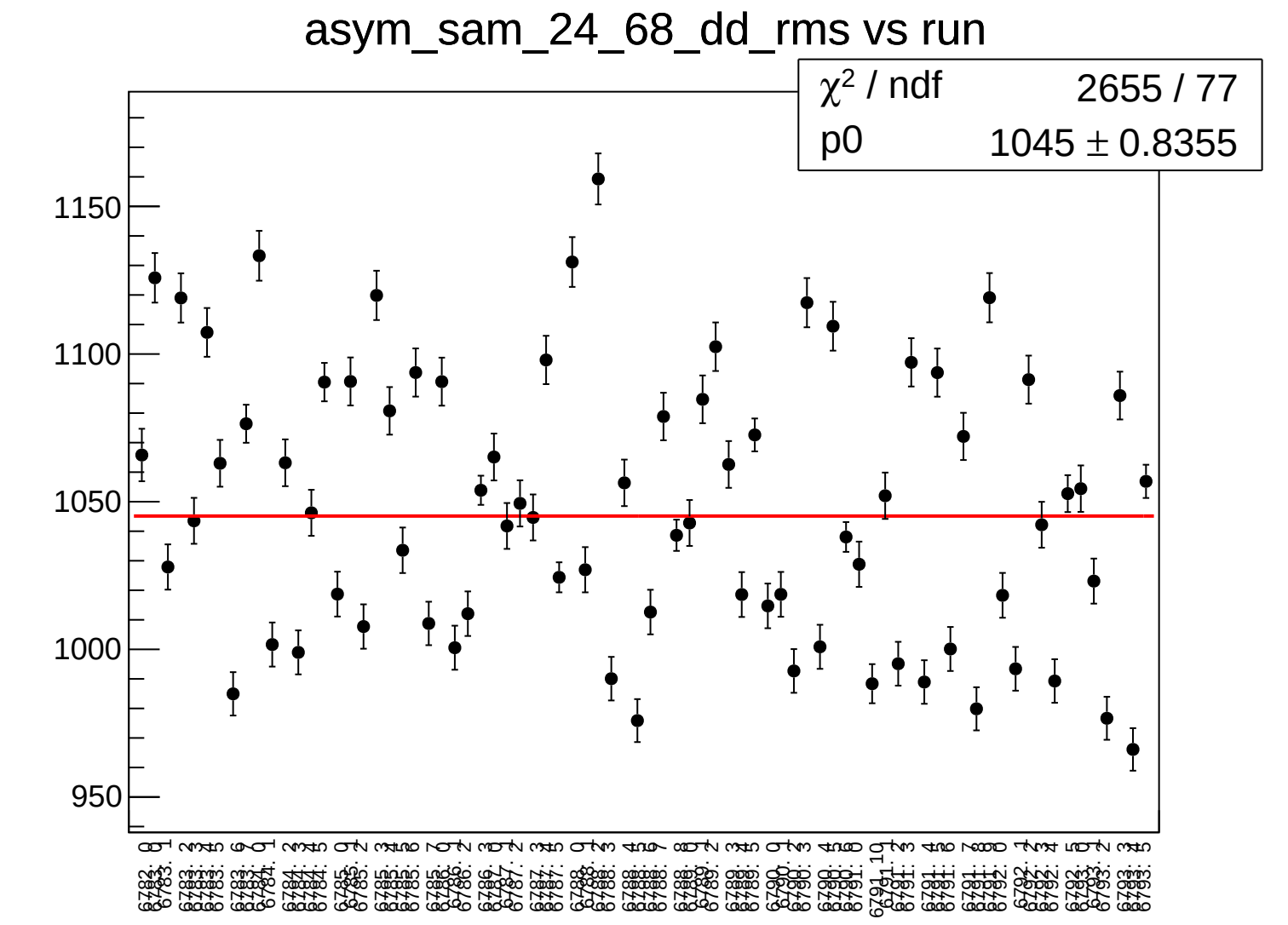

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 66.51 / 77
p0 −3557 ± 1177
pull
Entries 78
Mean −176.5
Std Dev 202

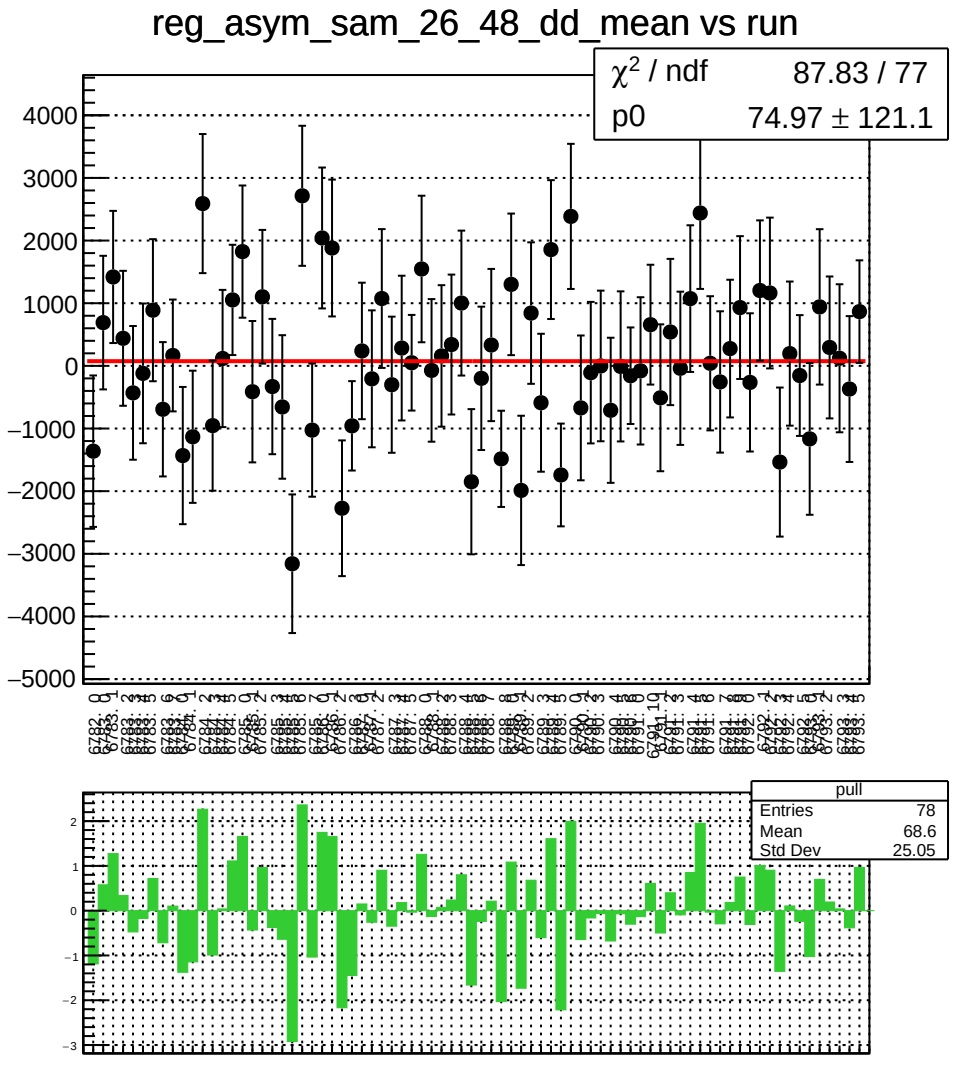

pull1D
Entries 78
Mean −0.01257
Std Dev 0.9234

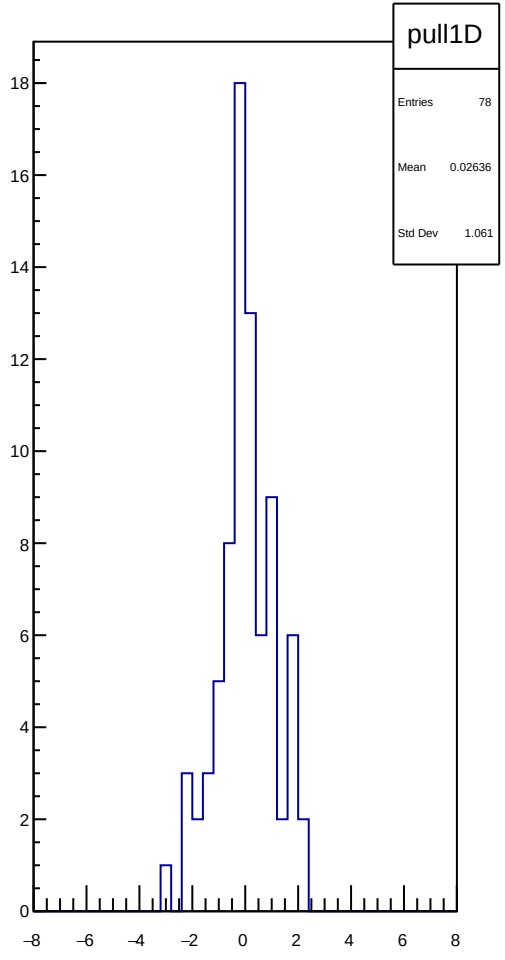

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 2691 / 77
p0 1041 ± 0.8325
1150
1100
1050
1000
950

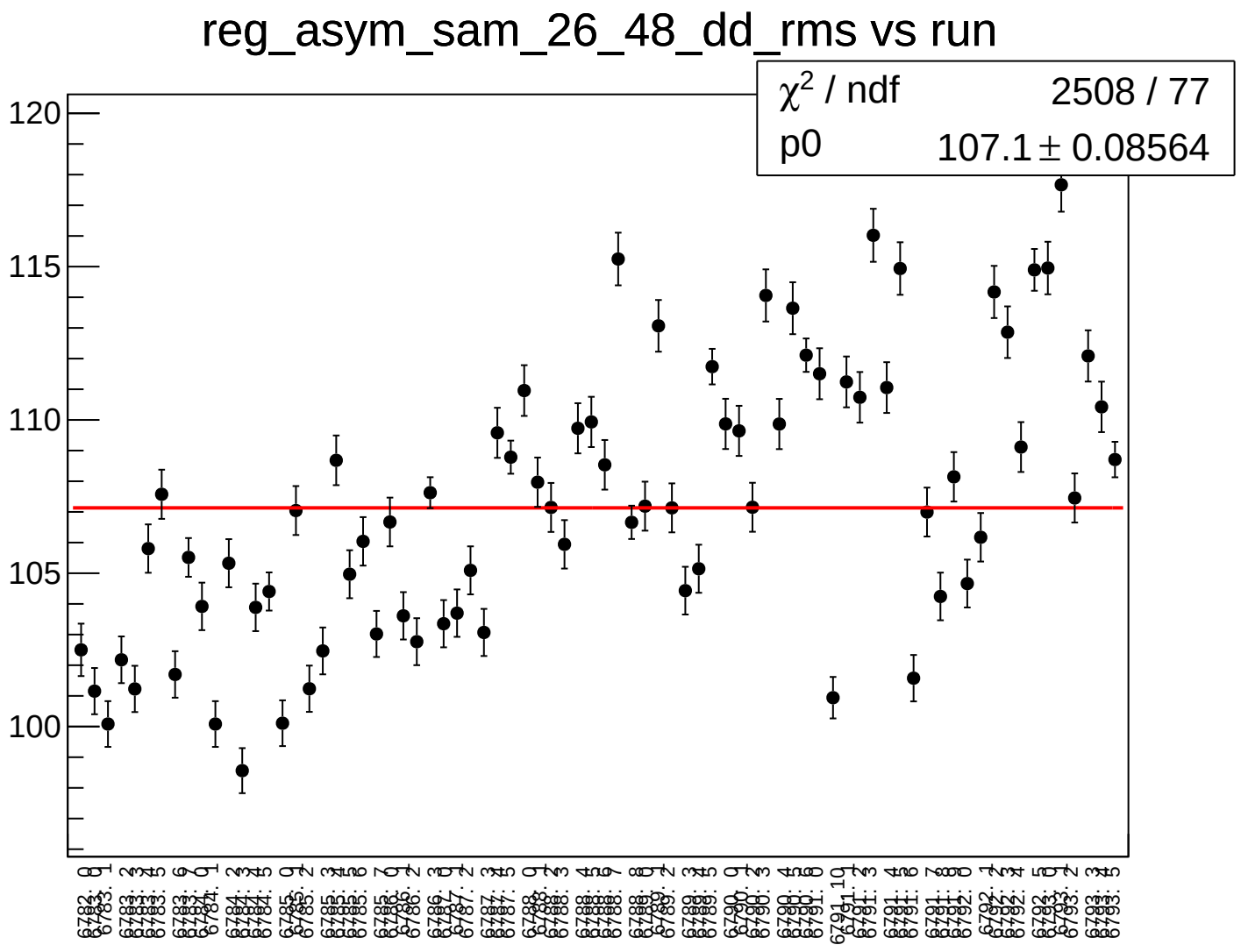

asym_sam_24_68_dd_mean vs run
χ² / ndf 66.33 / 77
p0 3532 ± 1182
pull
Entries 78
Mean −170.6
Std Dev 195.4

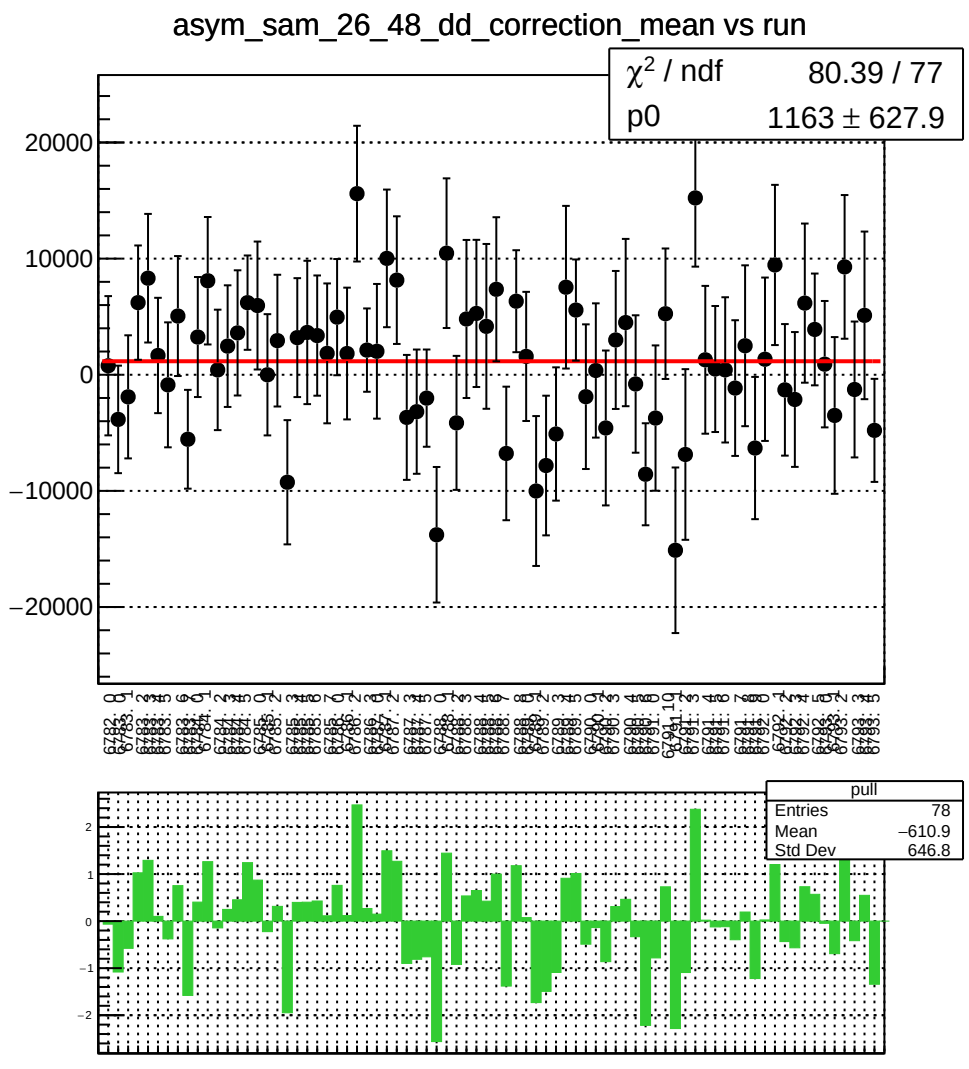

pull1D
Entries 78
Mean 0.01321
Std Dev 0.9221

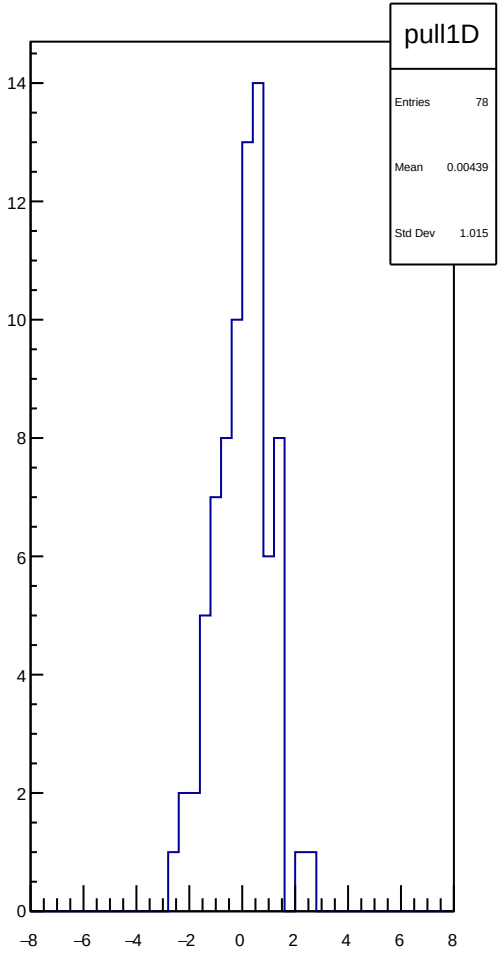

asym_sam_24_68_dd_rms vs run
χ² / ndf 2655 / 77
p0 1045 ± 0.8355
1150
1100
1050
1000
950

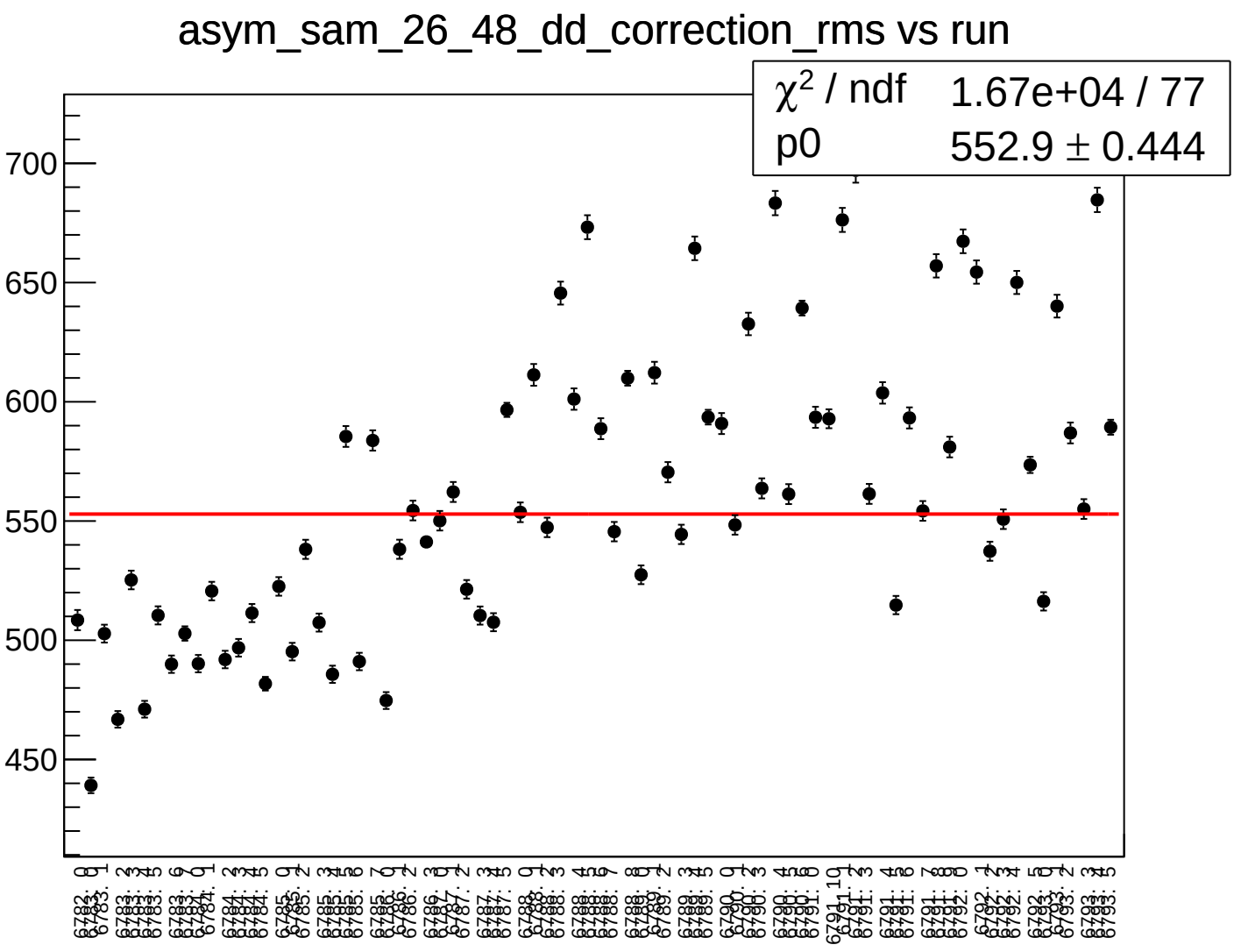

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 87.83 / 77
p0 74.97 ± 121.1
pull
Entries 78
Mean 68.6
Std Dev 25.05

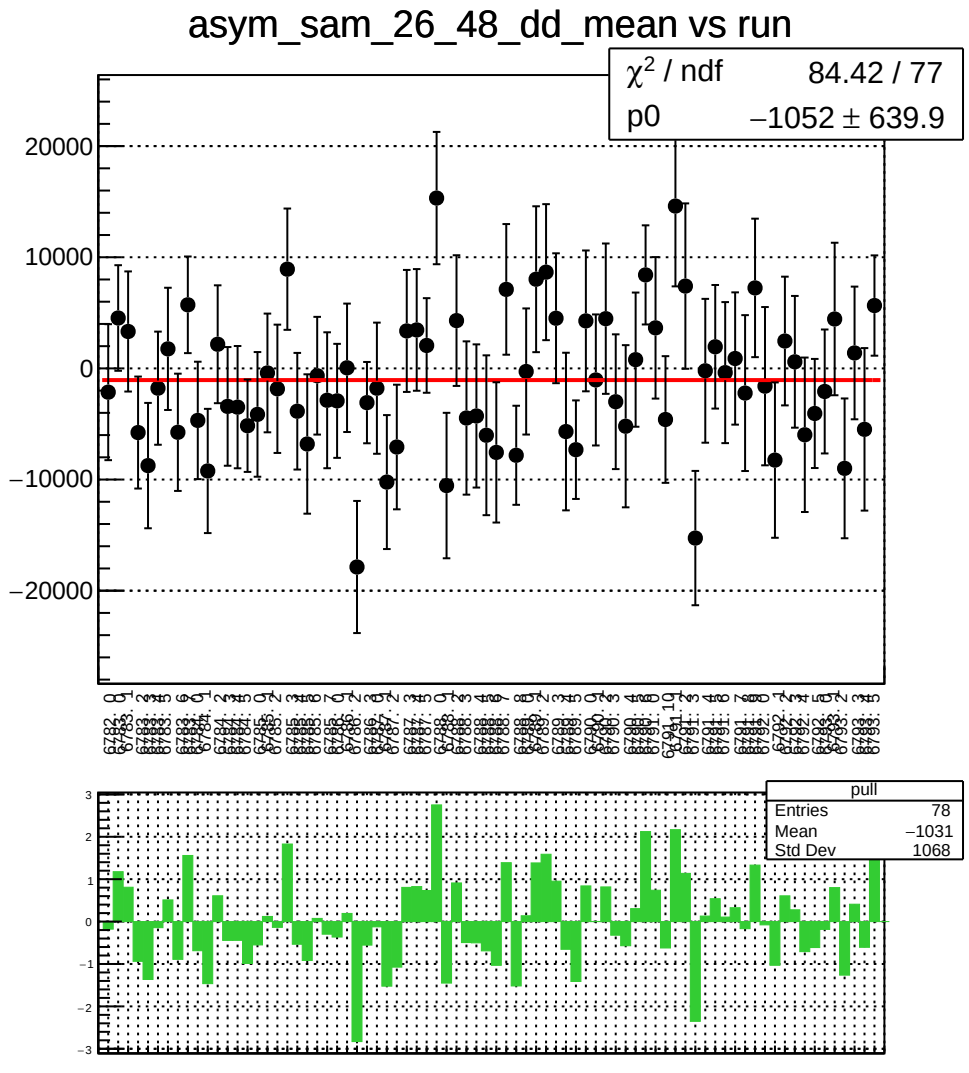

pull1D
Entries 78
Mean 0.02636
Std Dev 1.061

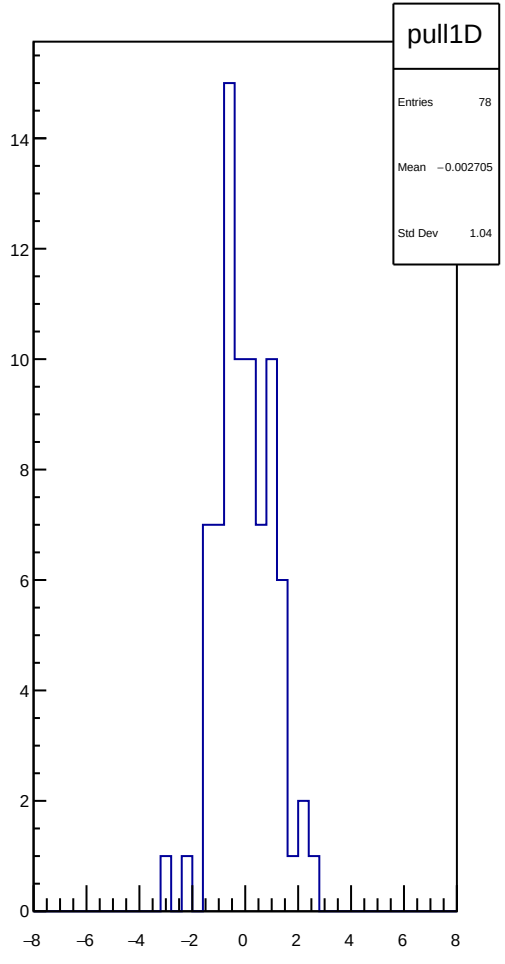

reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 2508 / 77
p0 107.1 ± 0.08564
120
115
110
105
100

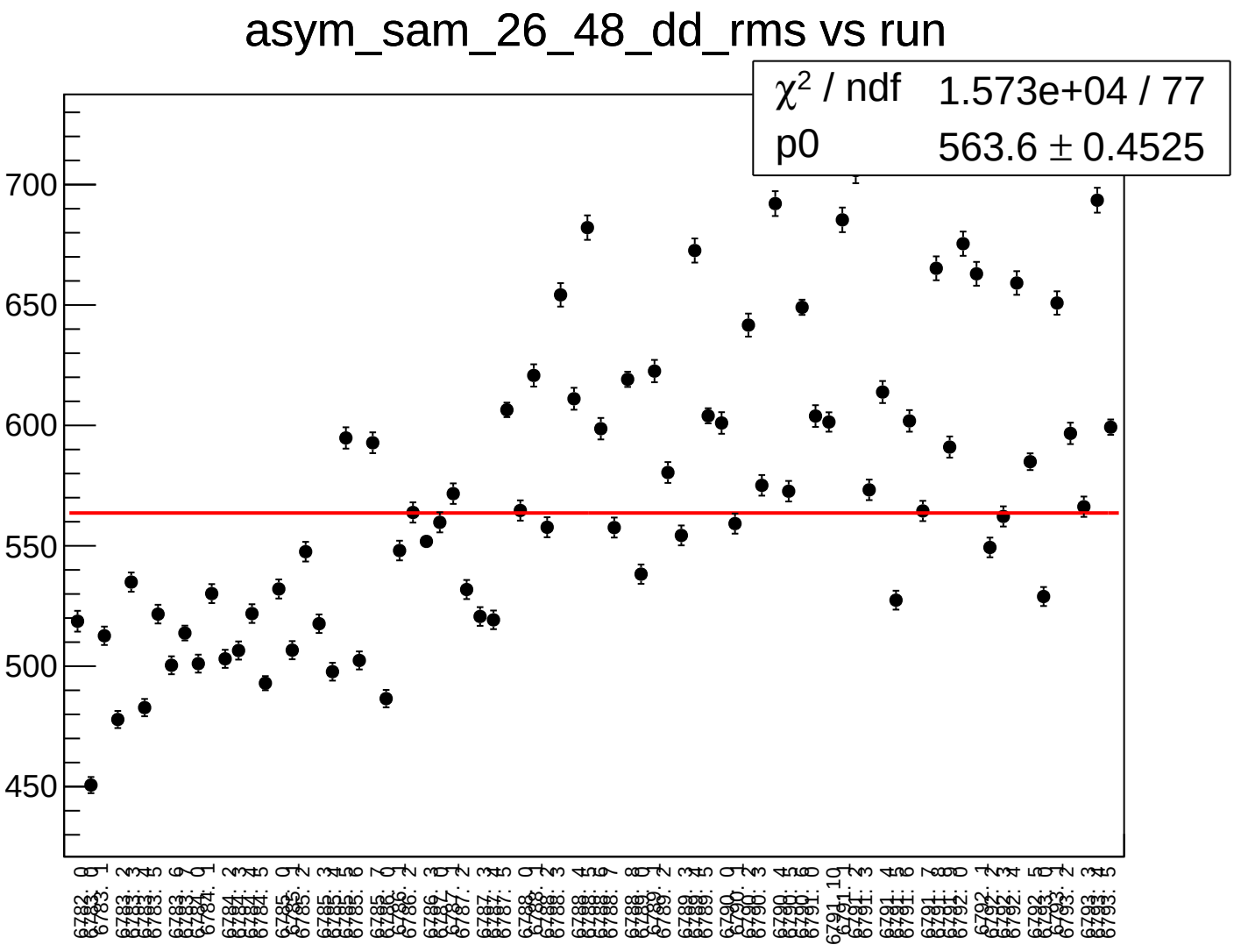

asym_sam_26_48_dd_correction_mean vs run
χ^2 / ndf 80.39 / 77
p0 1163 ± 627.9
20000
10000
0
−10000
−20000
pull
Entries 78
Mean −610.9
Std Dev 646.8
2
1
0
−1
−2

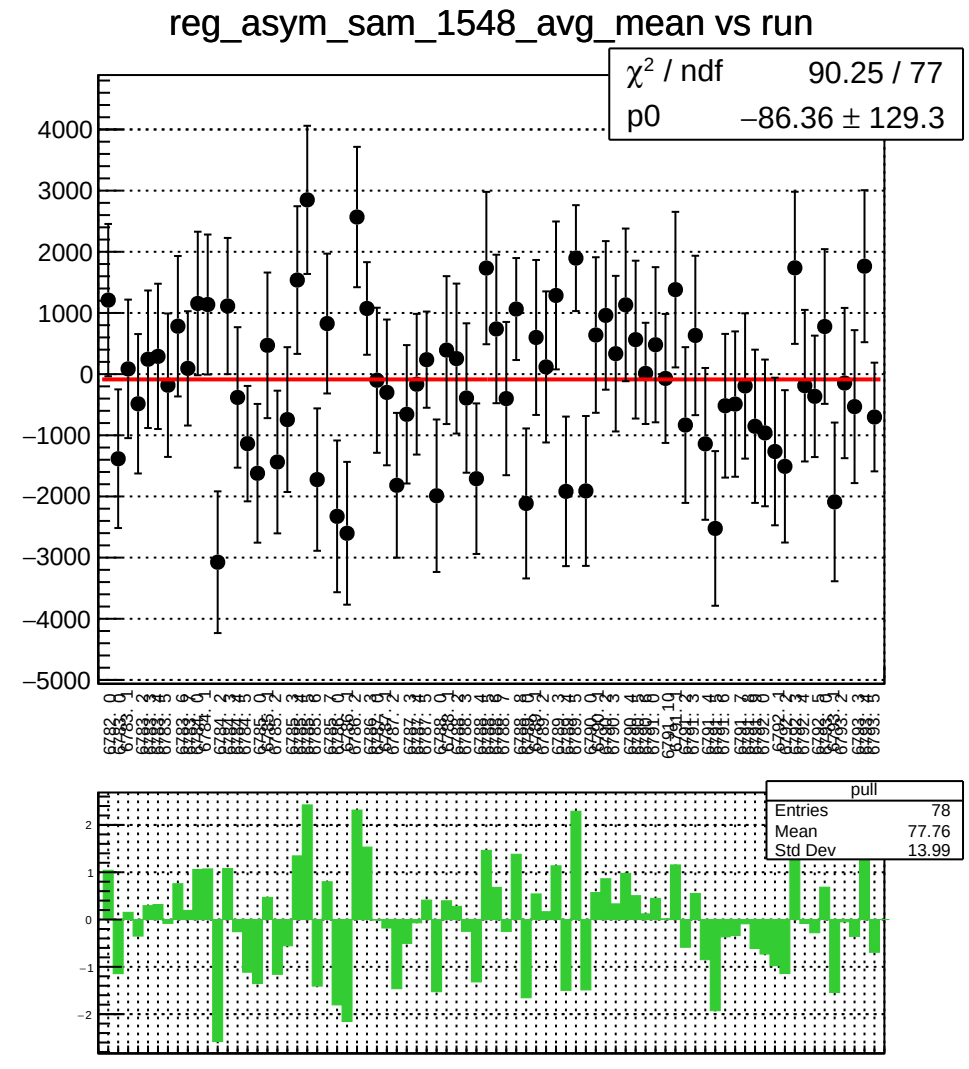

pull1D
Entries 78
Mean 0.00439
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

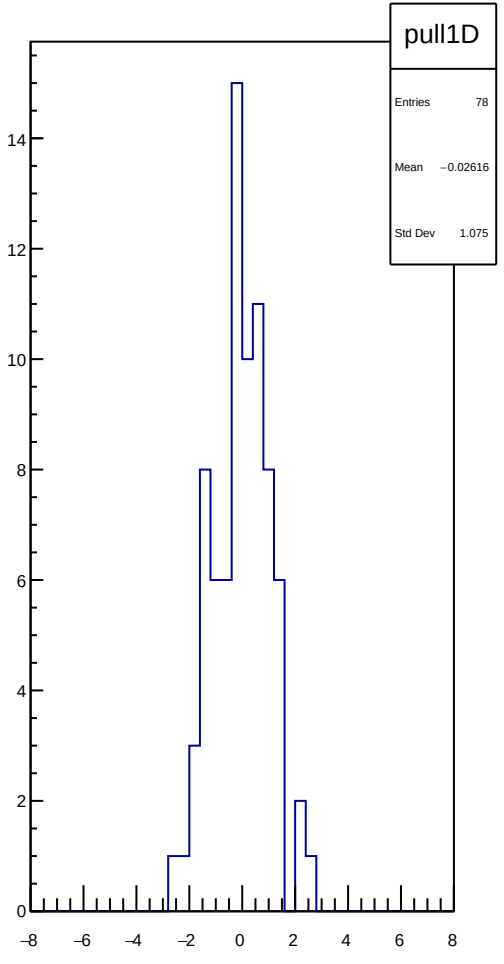

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 1.67e+04 / 77
p0 552.9 ± 0.444
700
650
600
550
500
450

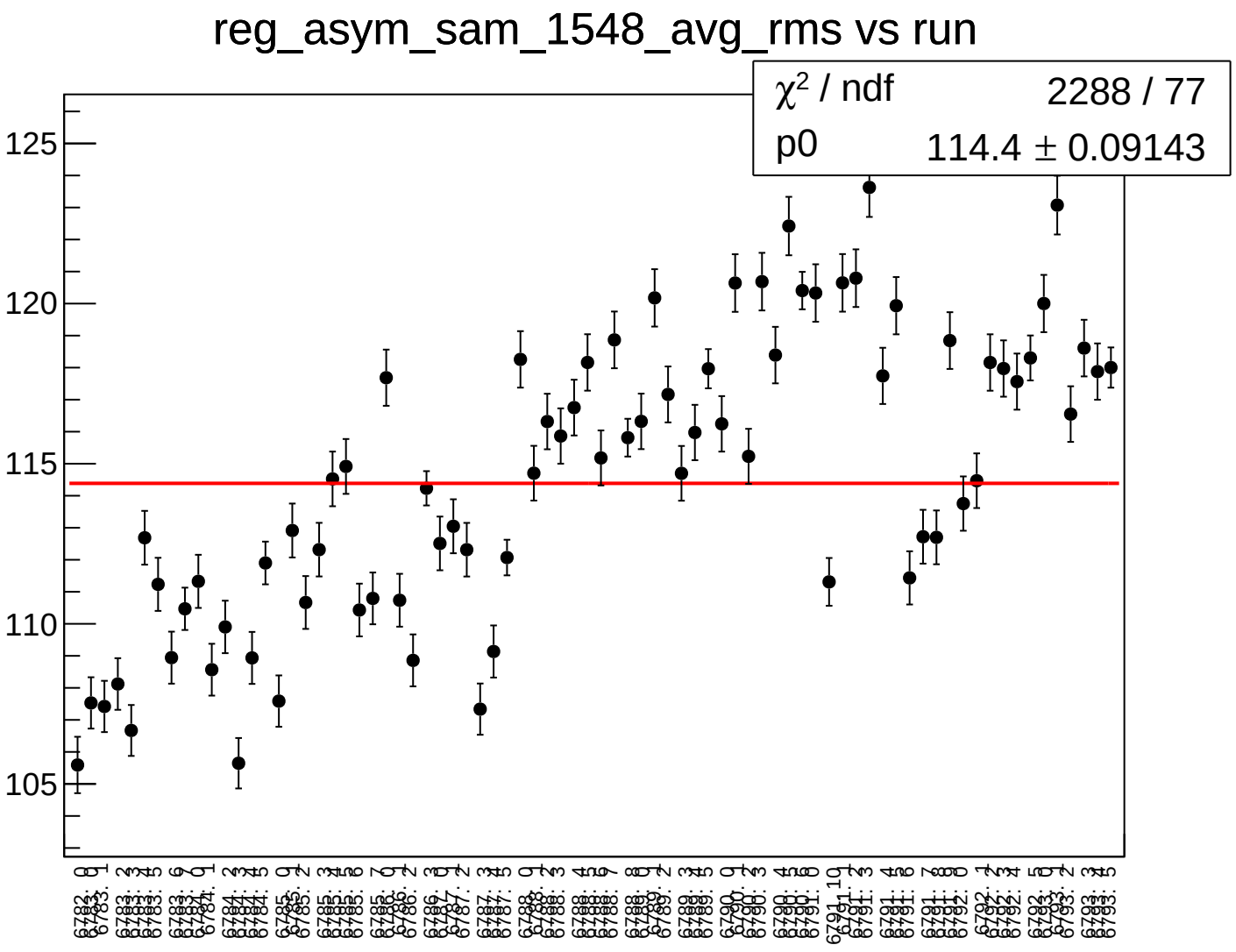

asym_sam_26_48_dd_mean vs run
χ² / ndf 84.42 / 77
p0 −1052 ± 639.9
20000
10000
0
−10000
−20000
pull
Entries 78
Mean −1031
Std Dev 1068
3
2
1
0
−1
−2
−3

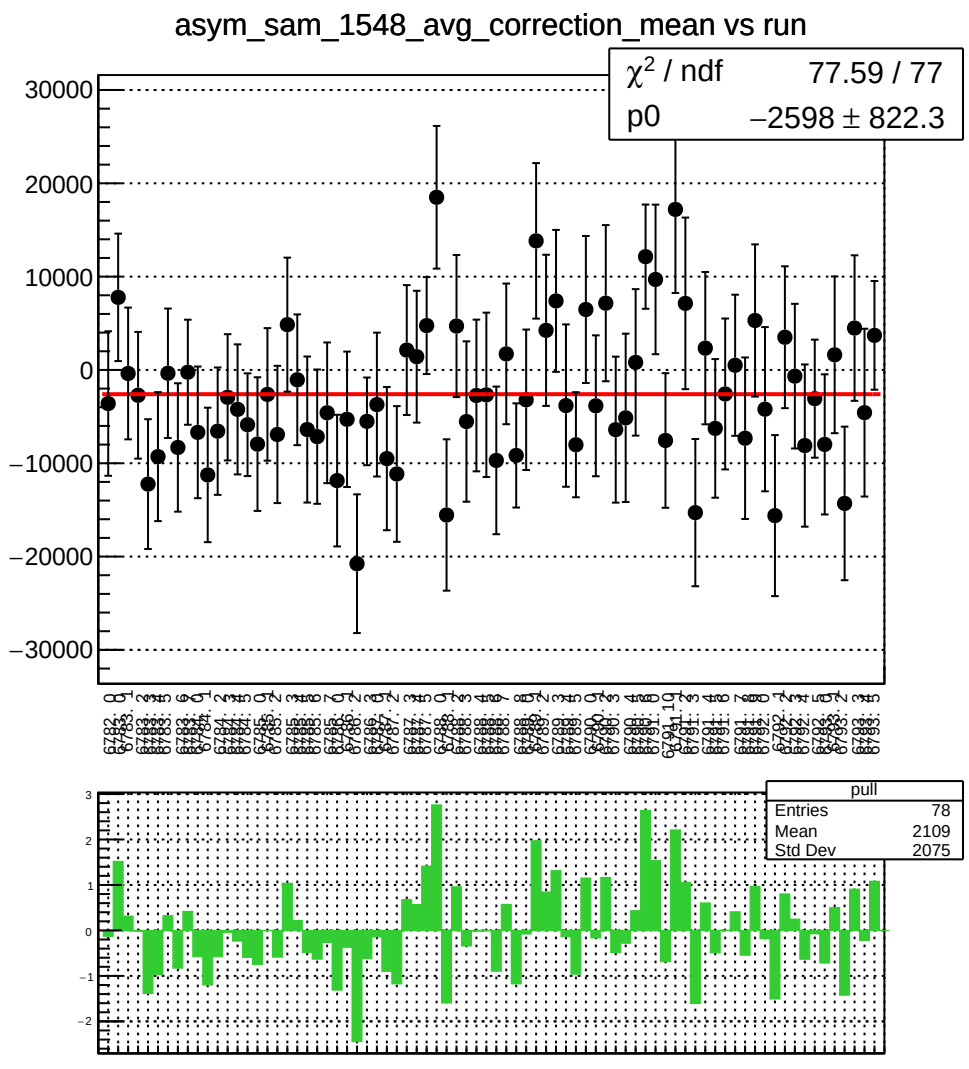

pull1D
Entries 78
Mean −0.002705
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

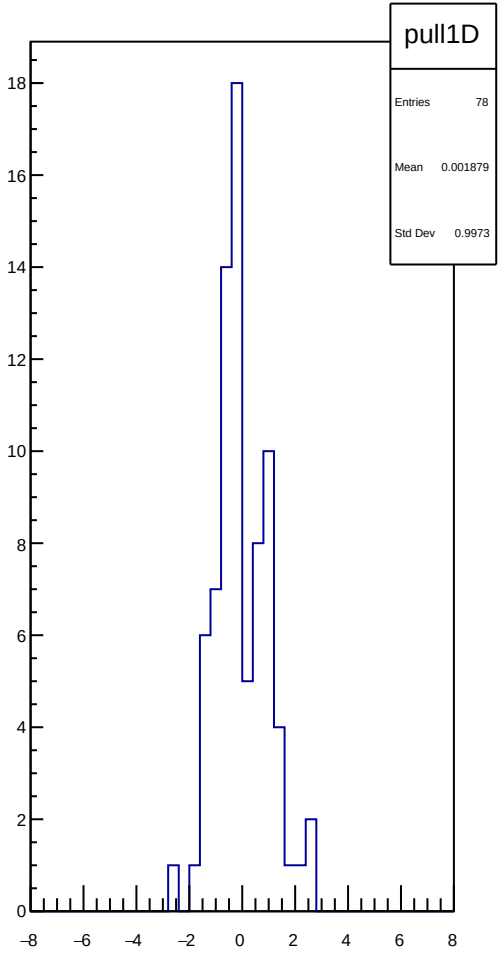

asym_sam_26_48_dd_rms vs run
χ² / ndf 1.573e+04 / 77
p0 563.6 ± 0.4525
700
650
600
550
500
450

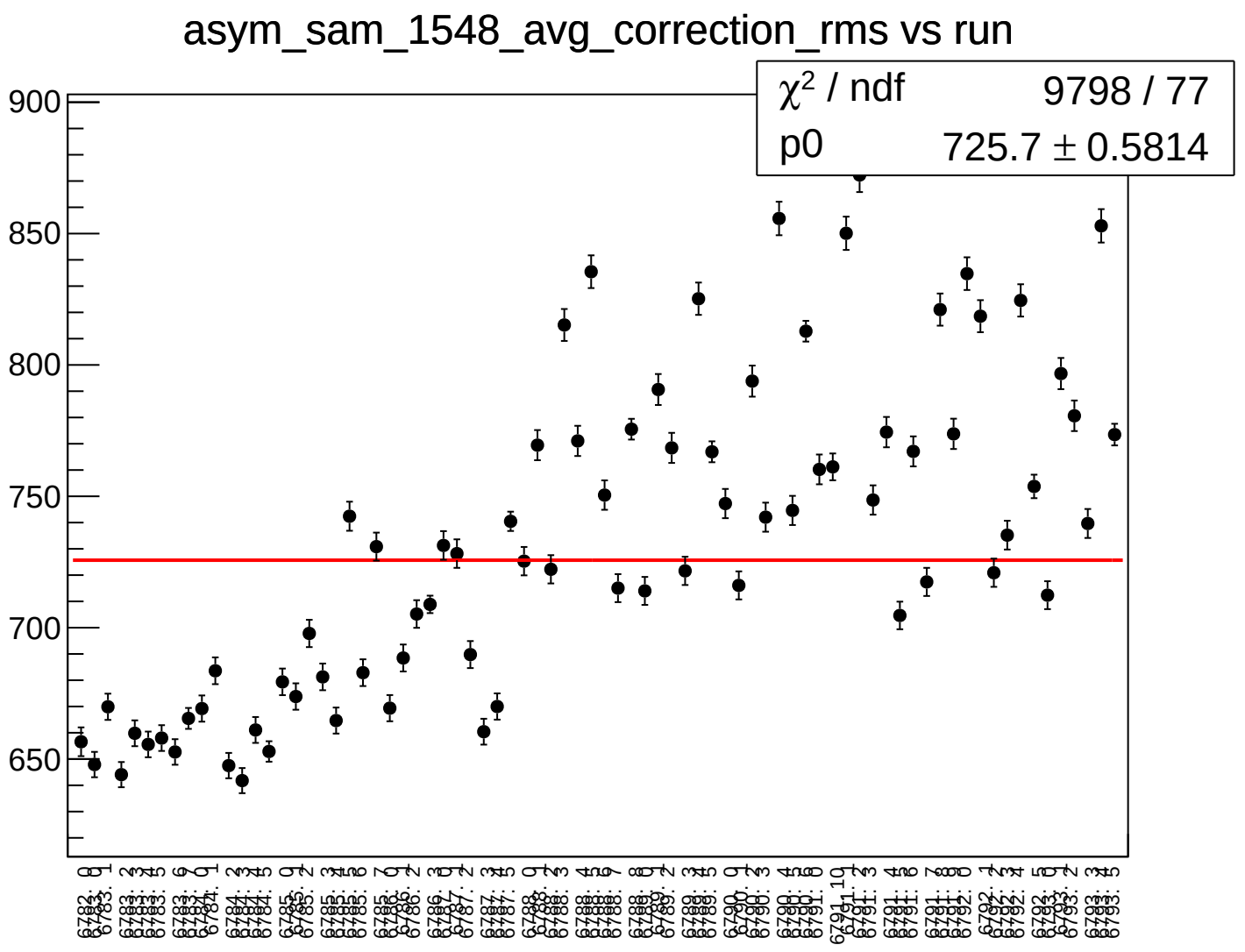

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 90.25 / 77
p0 −86.36 ± 129.3
pull
Entries 78
Mean 77.76
Std Dev 13.99

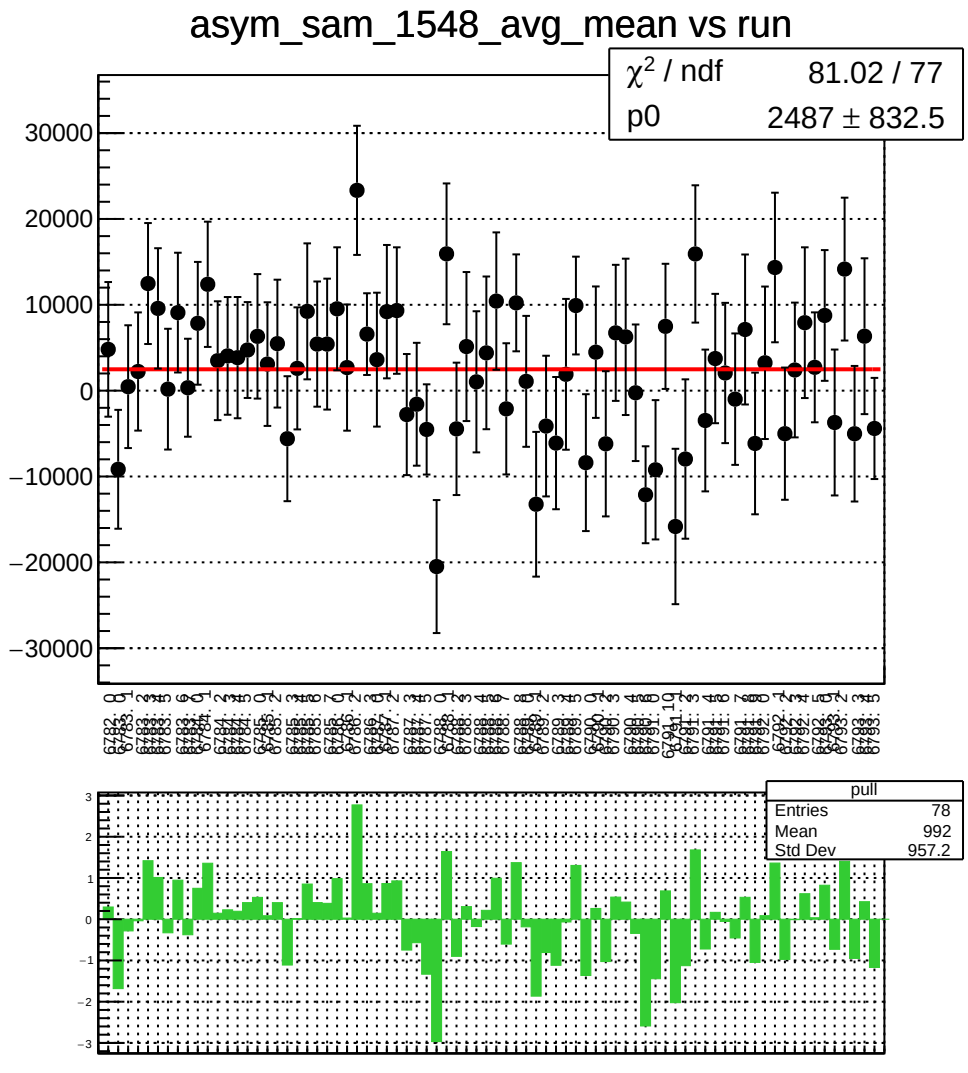

pull1D
Entries 78
Mean −0.02616
Std Dev 1.075

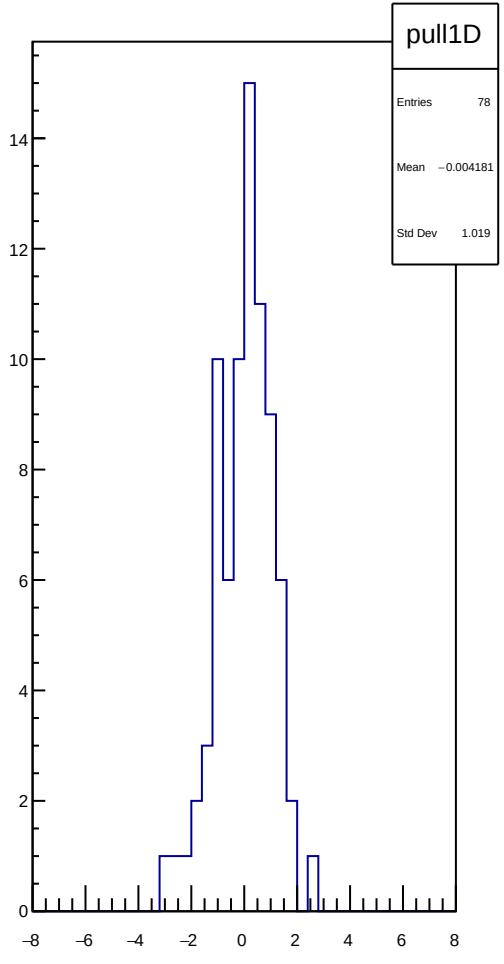

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 2288 / 77
p0 114.4 ± 0.09143
125
120
115
110
105

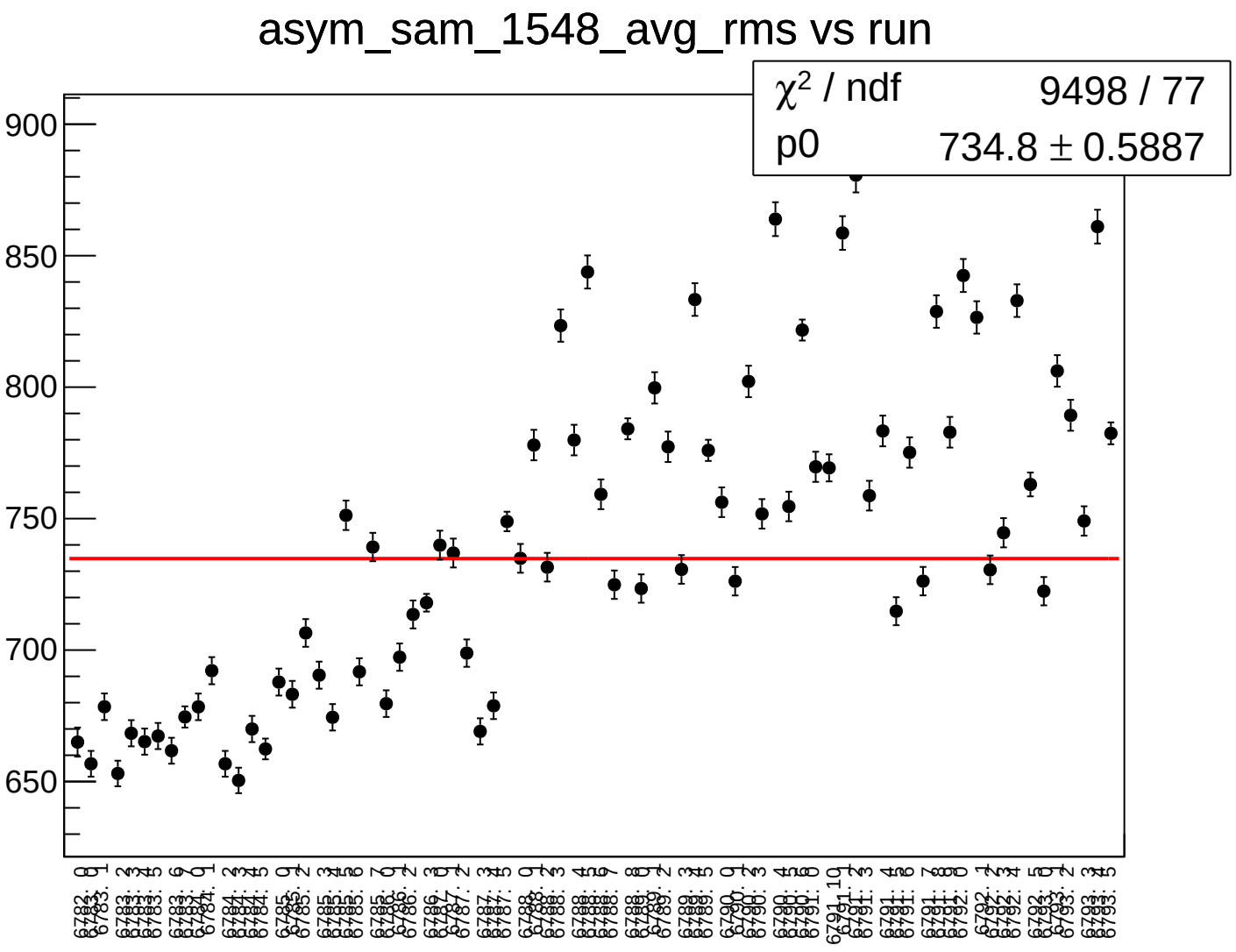

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 77.59 / 77
p0 −2598 ± 822.3
pull
Entries 78
Mean 2109
Std Dev 2075

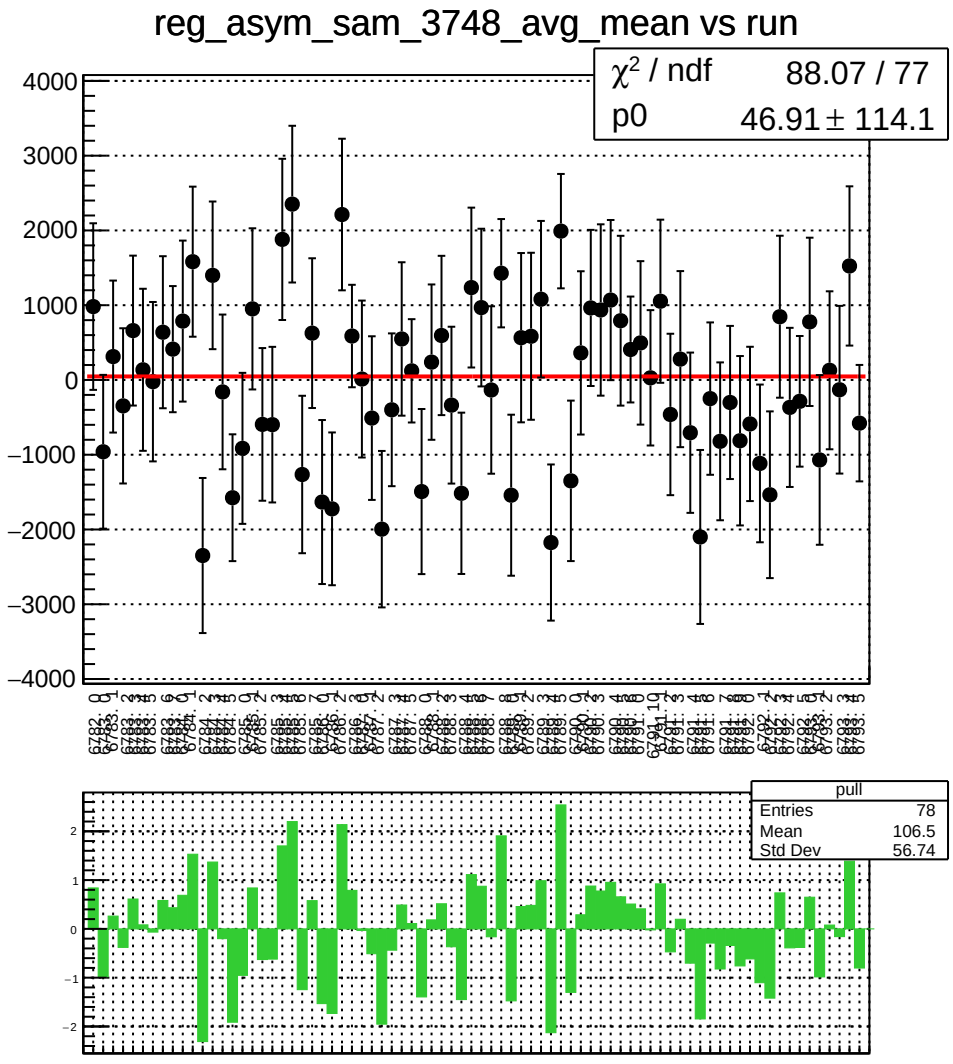

pull1D
Entries 78
Mean 0.001879
Std Dev 0.9973

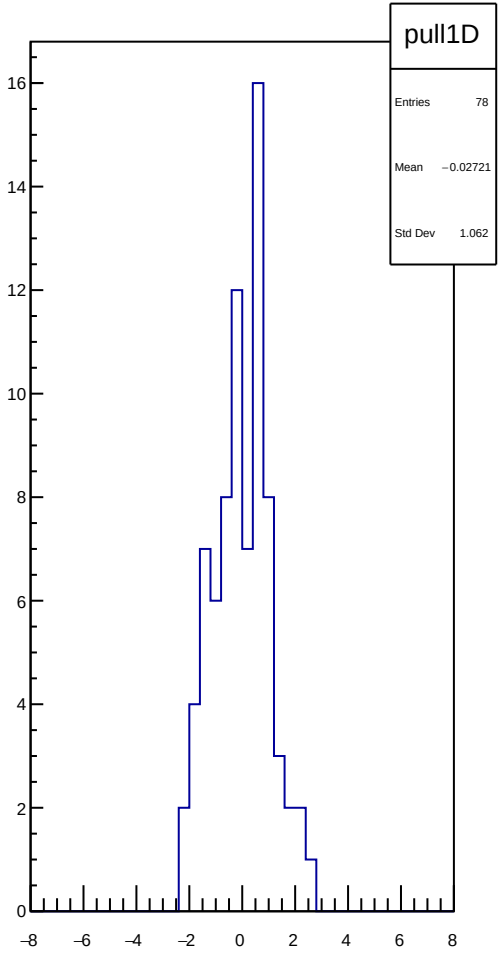

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 9798 / 77
p0 725.7 ± 0.5814
900
850
800
750
700
650

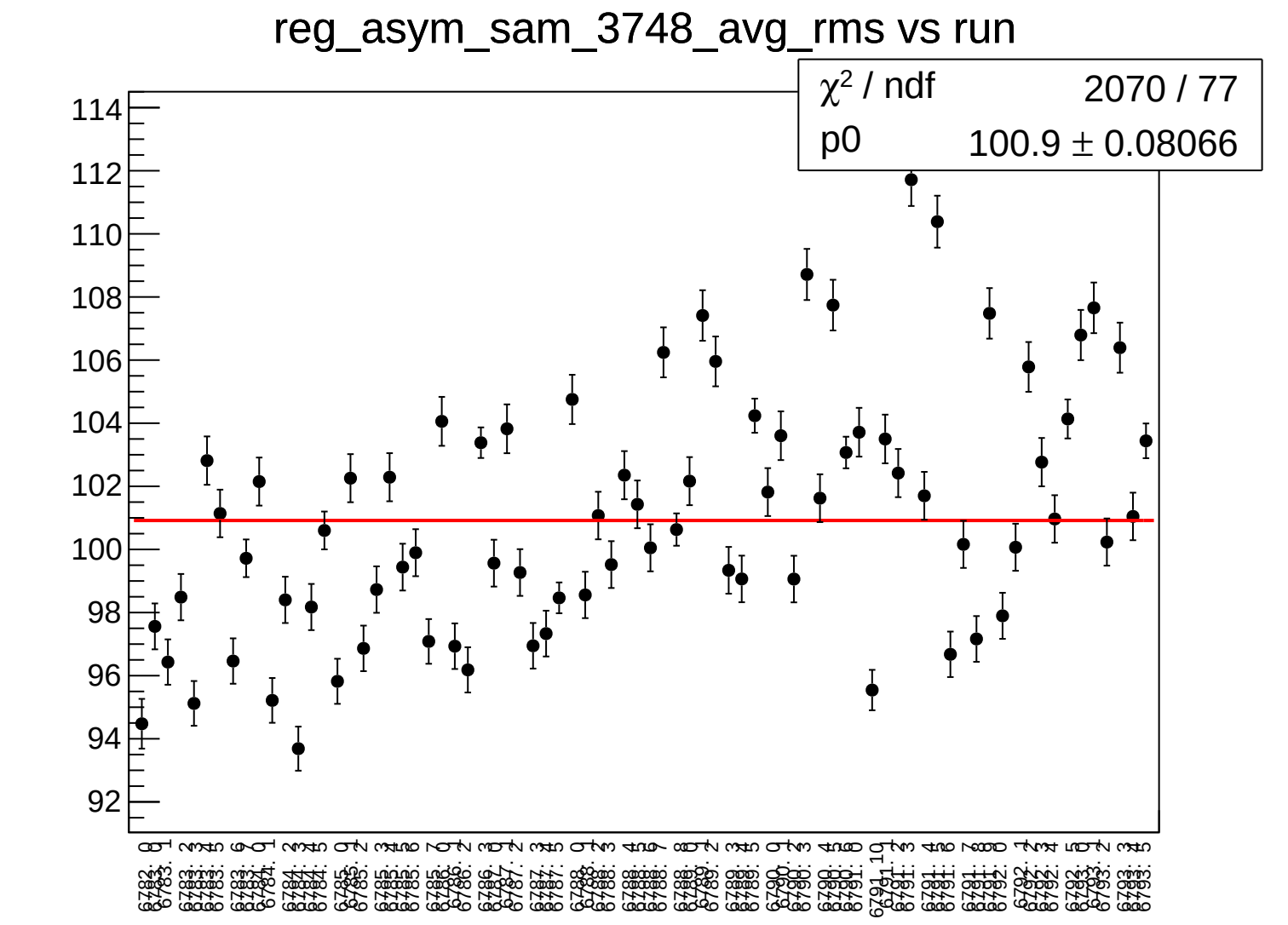

asym_sam_1548_avg_mean vs run
χ² / ndf 81.02 / 77
p0 2487 ± 832.5
pull
Entries 78
Mean 992
Std Dev 957.2

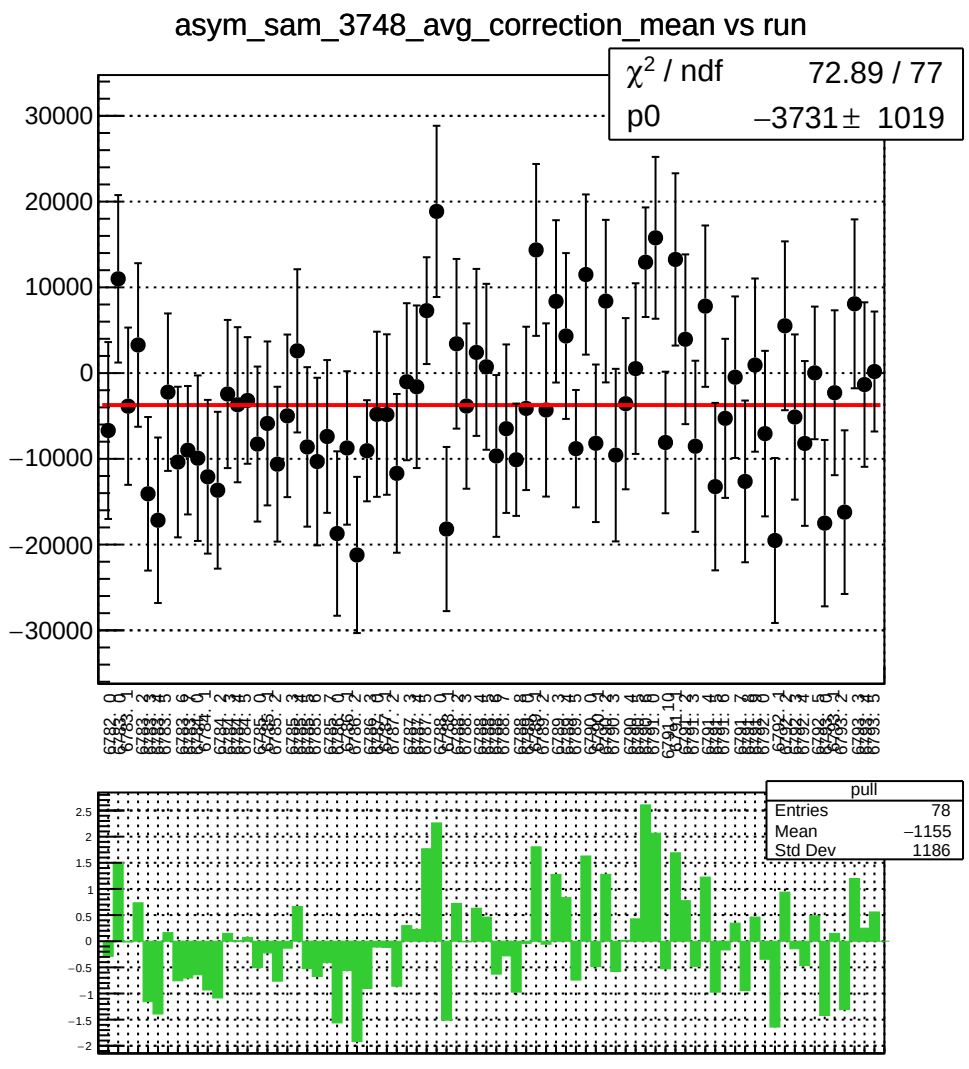

pull1D
Entries 78
Mean −0.004181
Std Dev 1.019

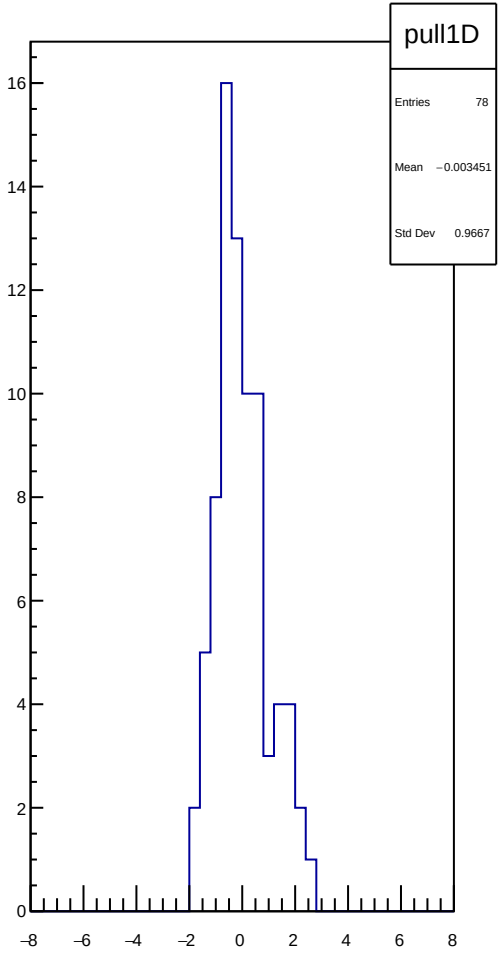

asym_sam_1548_avg_rms vs run
χ^2 / ndf 9498 / 77
p0 734.8 ± 0.5887
900
850
800
750
700
650

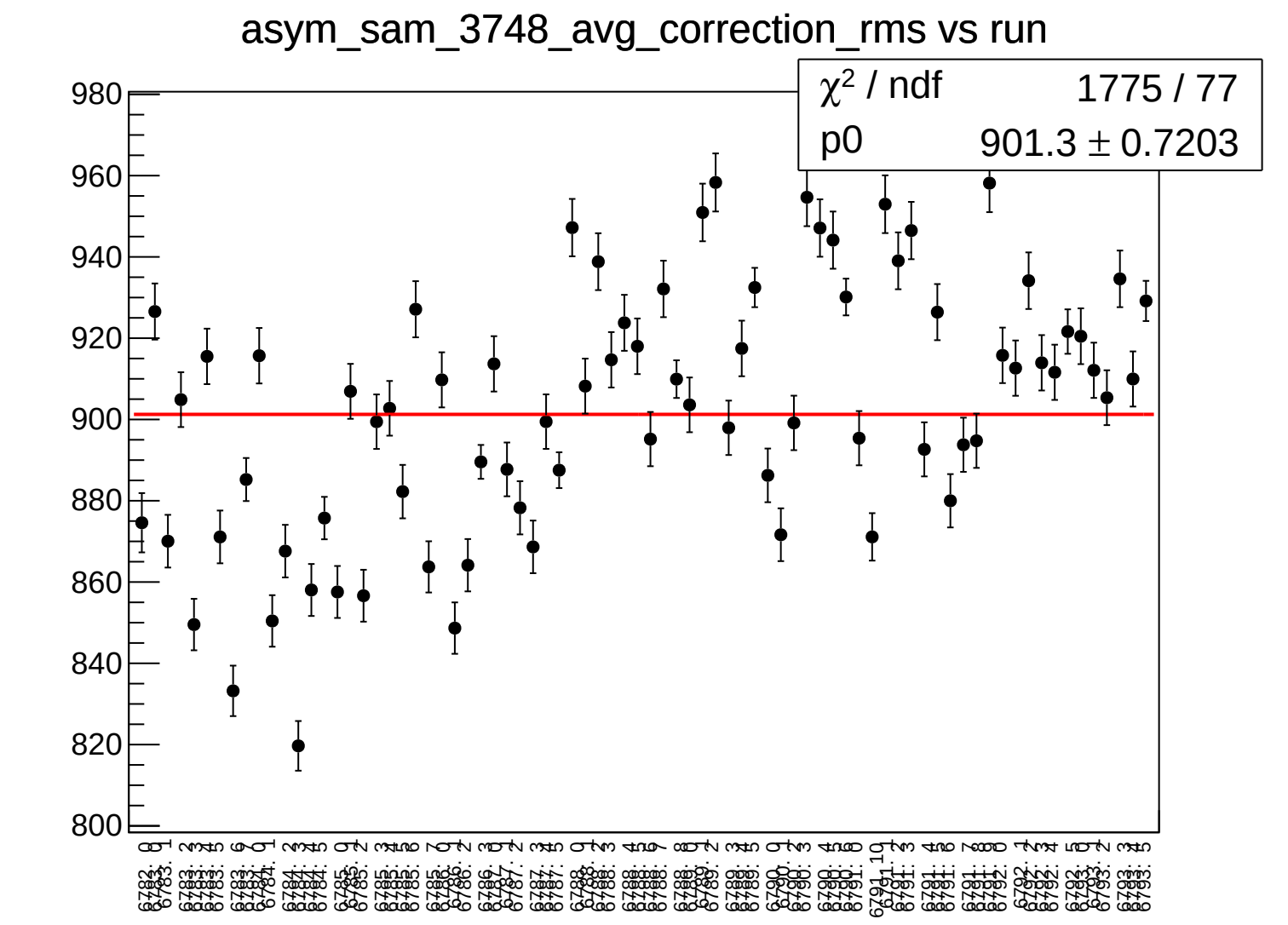

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 88.07 / 77
p0 46.91 ± 114.1
pull
Entries 78
Mean 106.5
Std Dev 56.74

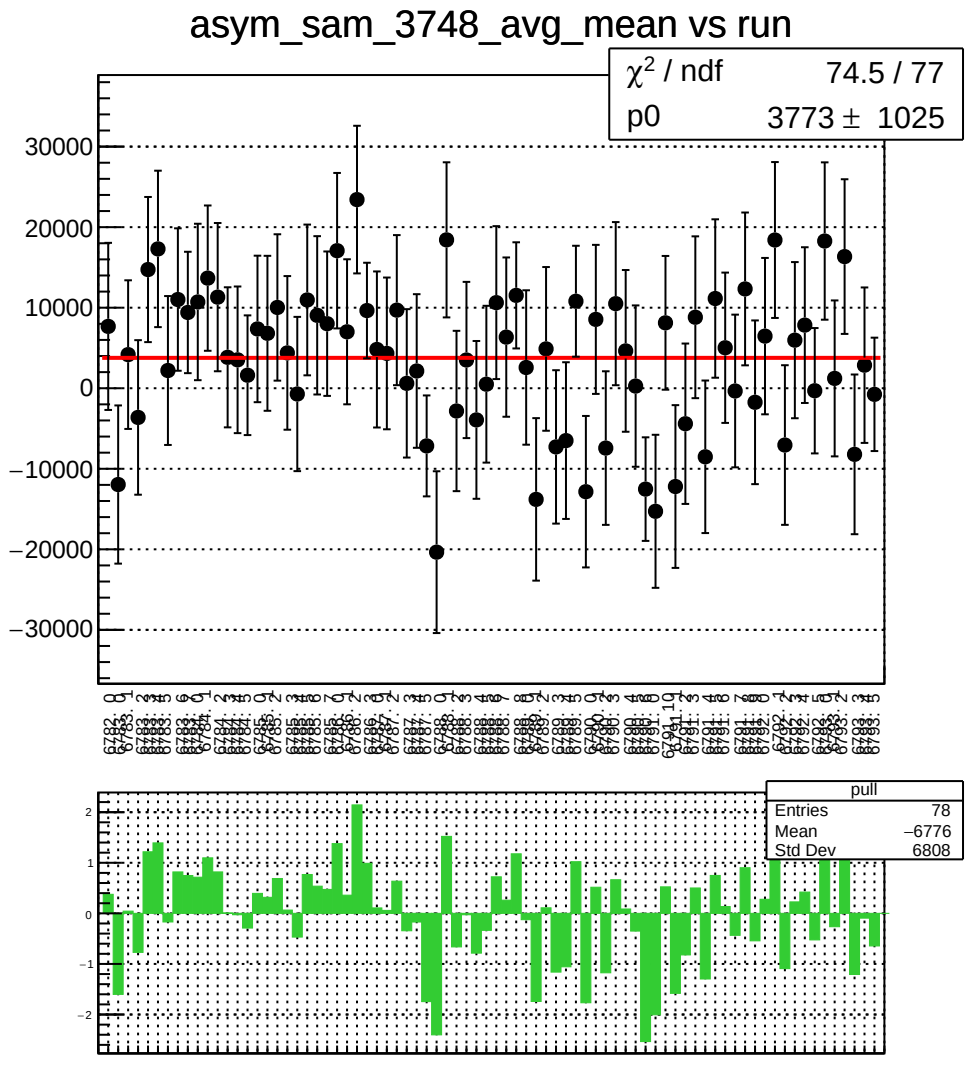

pull1D
Entries 78
Mean −0.02721
Std Dev 1.062

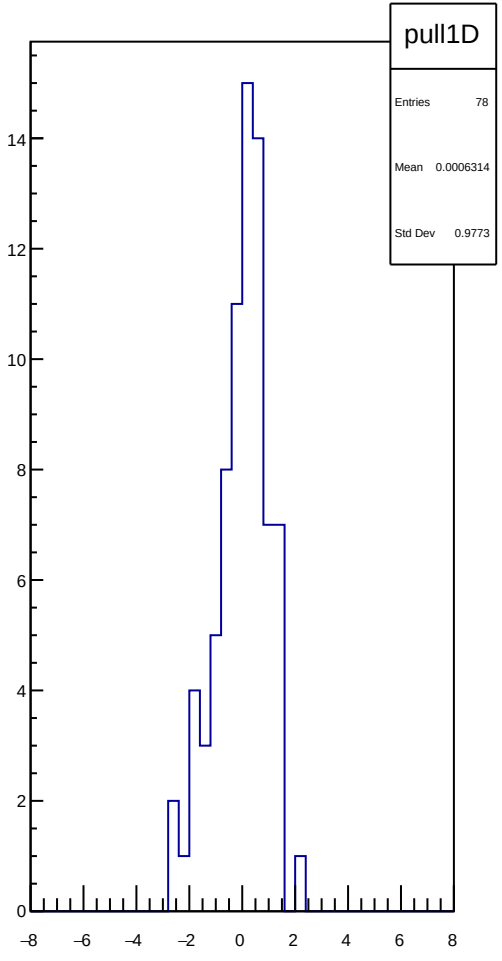

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 2070 / 77
p0 100.9 ± 0.08066
114
112
110
108
106
104
102
100
98
96
94
92

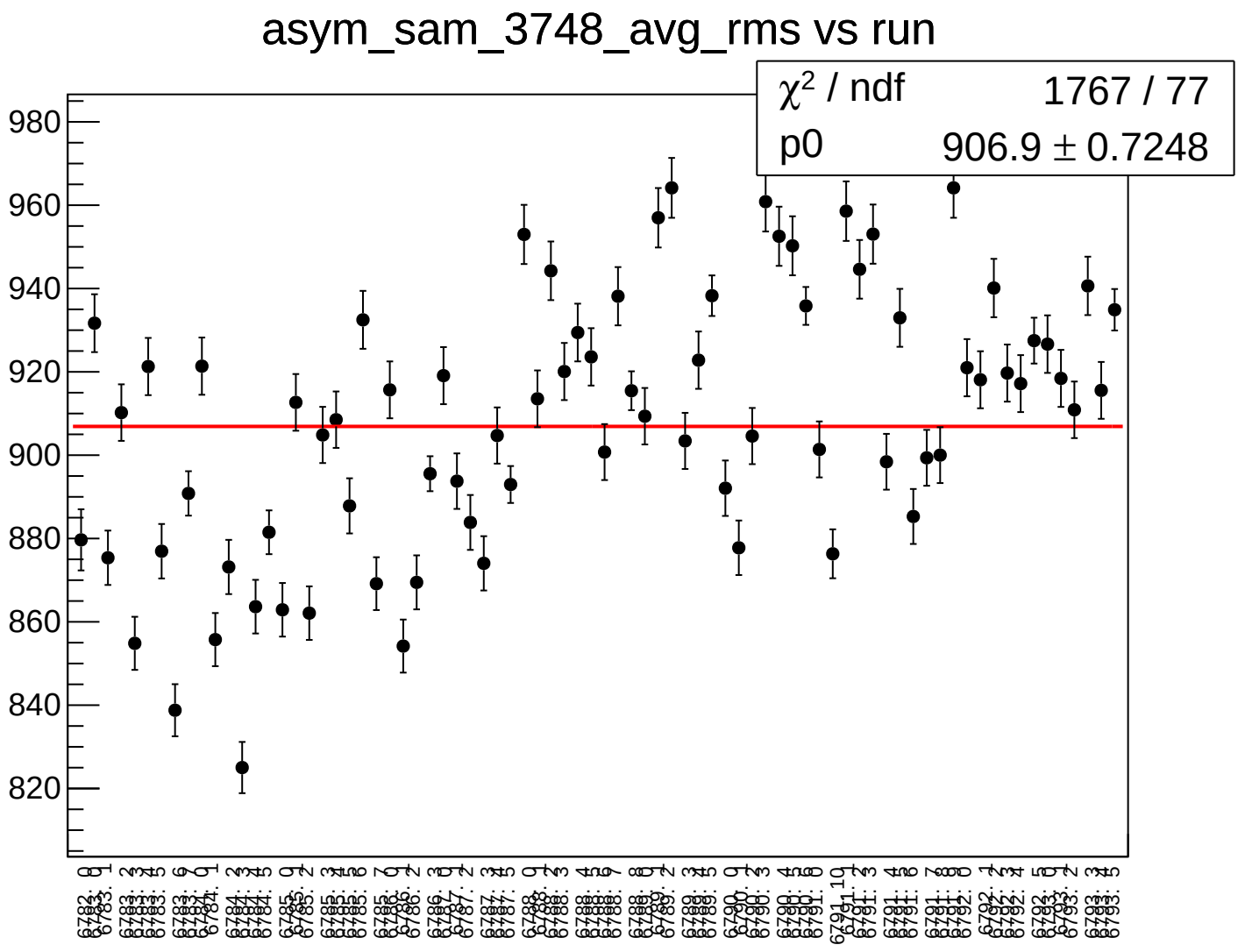

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 72.89 / 77
p0 −3731 ± 1019
pull
Entries 78
Mean −1155
Std Dev 1186

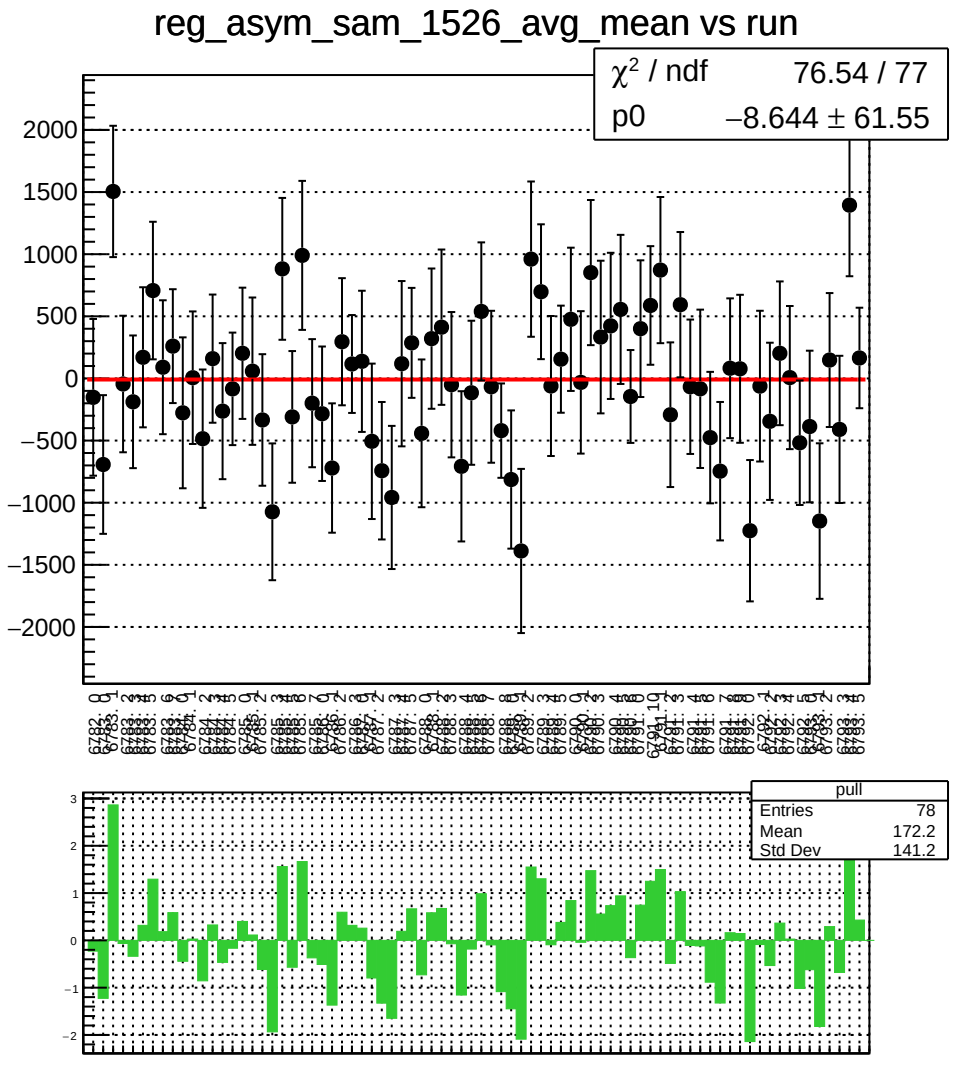

pull1D
Entries 78
Mean −0.003451
Std Dev 0.9667

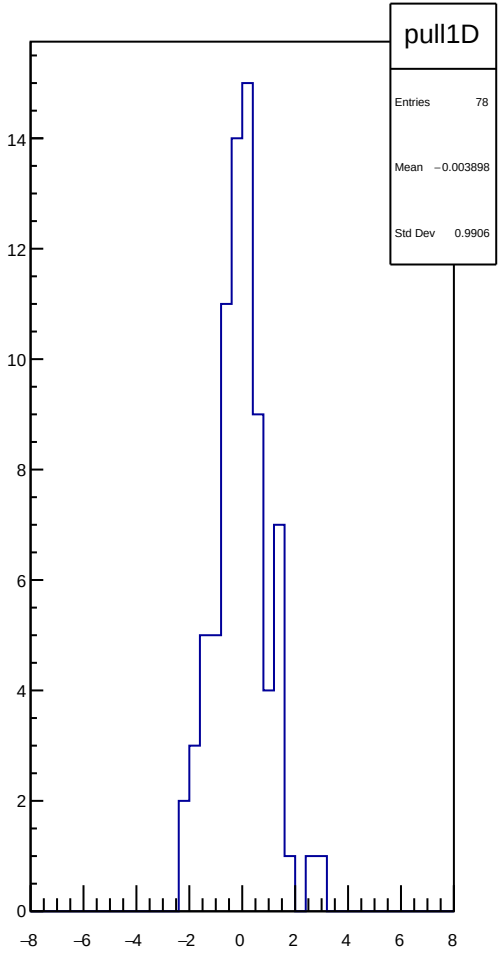

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 1775 / 77
p0 901.3 ± 0.7203
980
960
940
920
900
880
860
840
820
800

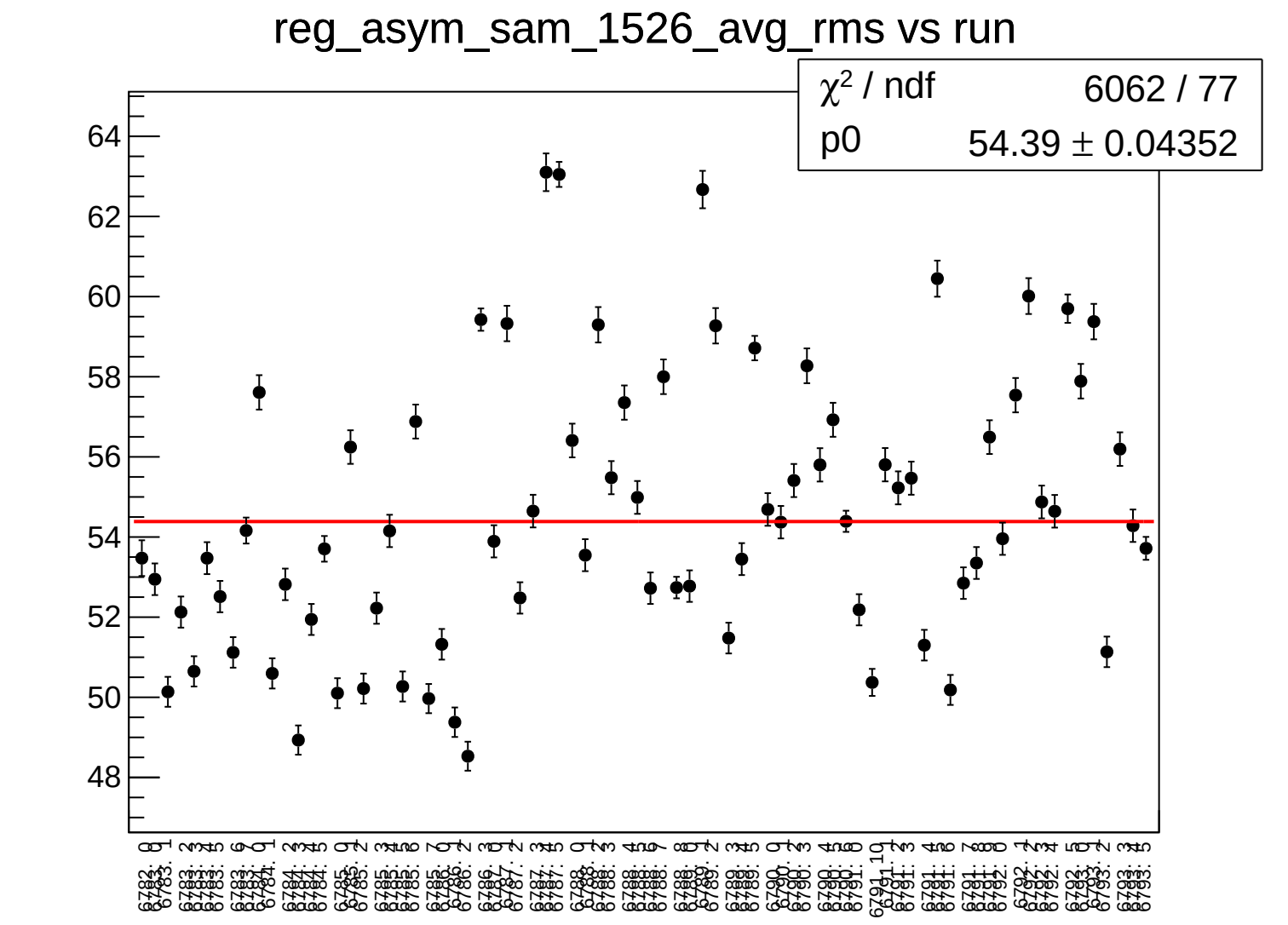

asym_sam_3748_avg_mean vs run
χ² / ndf 74.5 / 77
p0 3773 ± 1025
pull
Entries 78
Mean −6776
Std Dev 6808

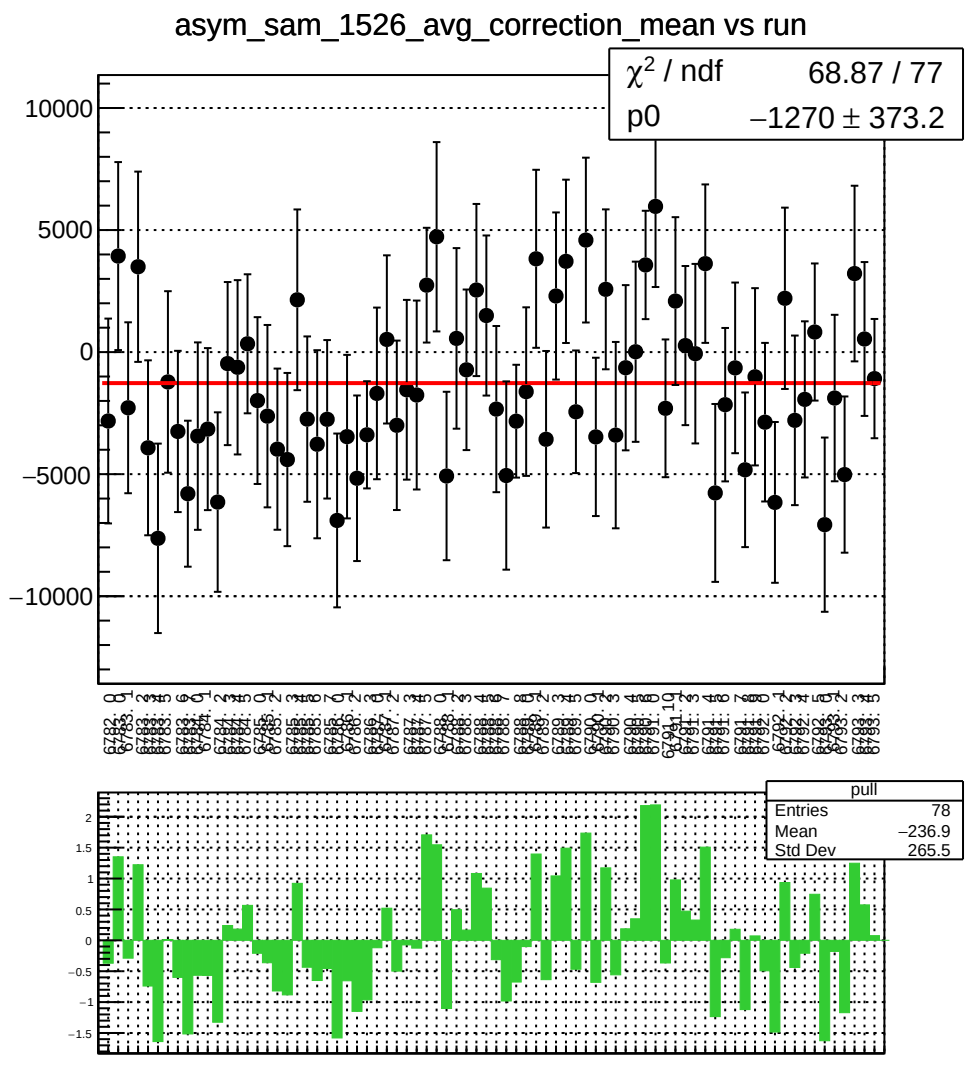

pull1D
Entries 78
Mean 0.0006314
Std Dev 0.9773

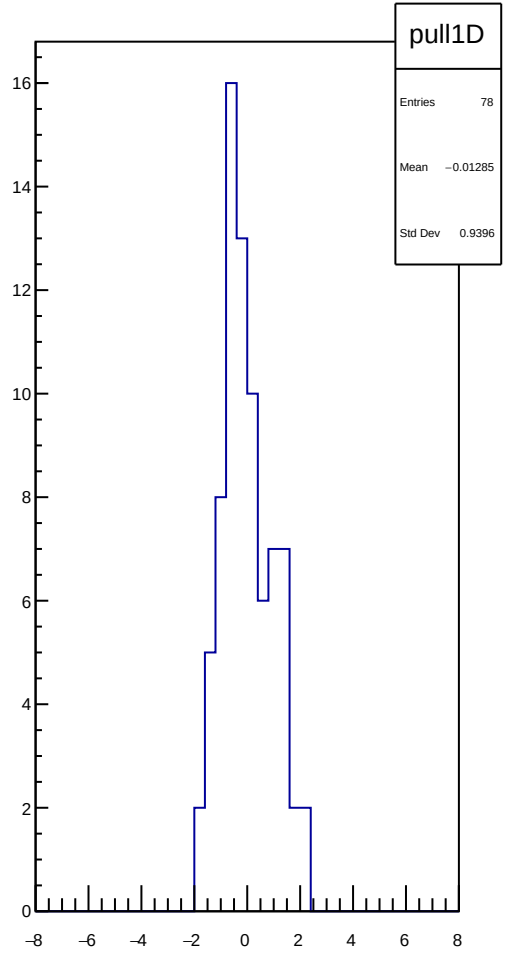

asym_sam_3748_avg_rms vs run
χ^2 / ndf 1767 / 77
p0 906.9 ± 0.7248
980
960
940
920
900
880
860
840
820

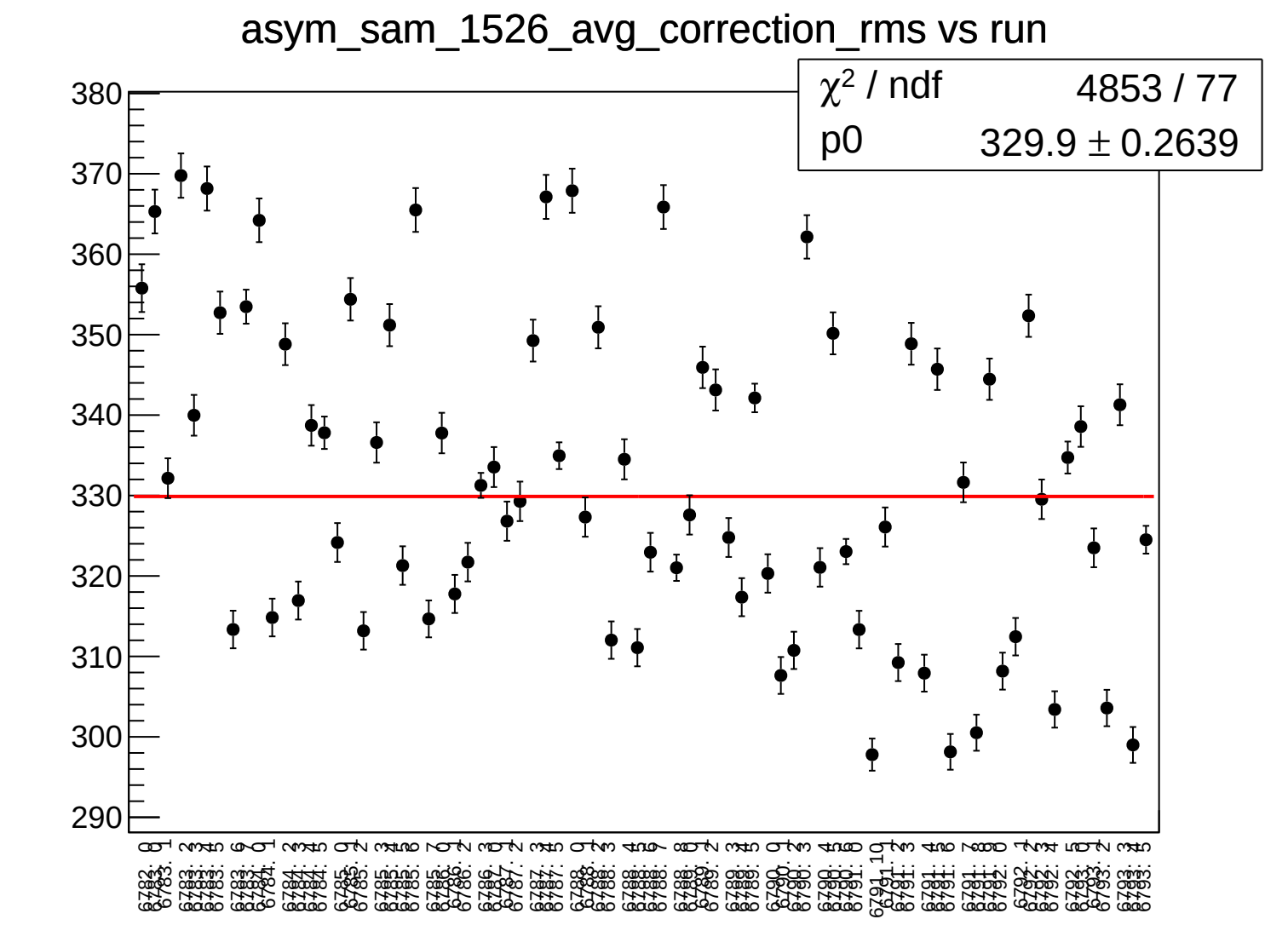

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 76.54 / 77
p0 −8.644 ± 61.55
pull
Entries 78
Mean 172.2
Std Dev 141.2

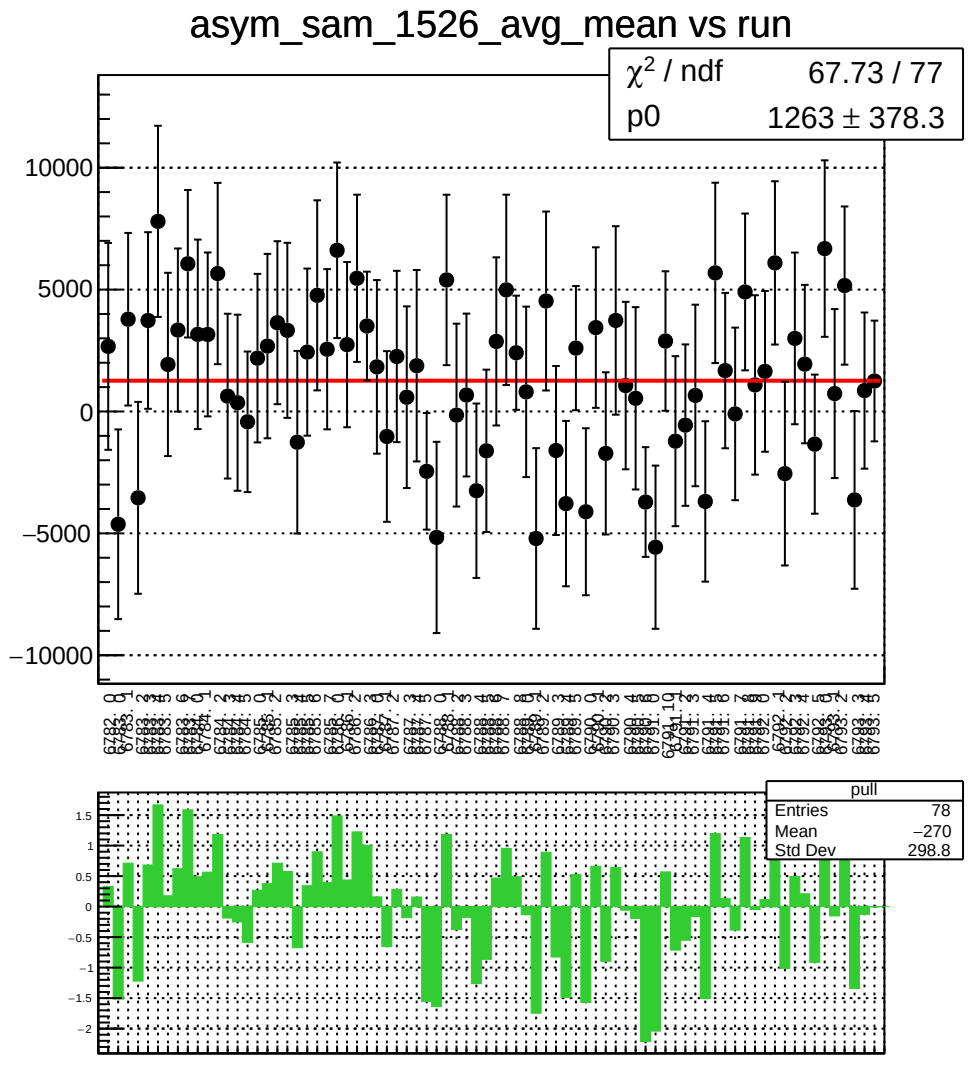

pull1D
Entries 78
Mean −0.003898
Std Dev 0.9906

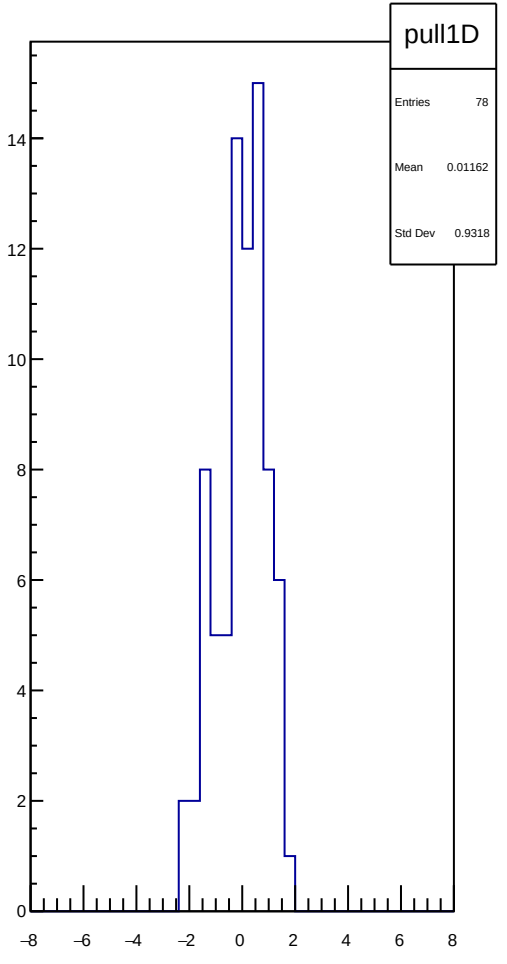

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 6062 / 77
p0 54.39 ± 0.04352
64
62
60
58
56
54
52
50
48

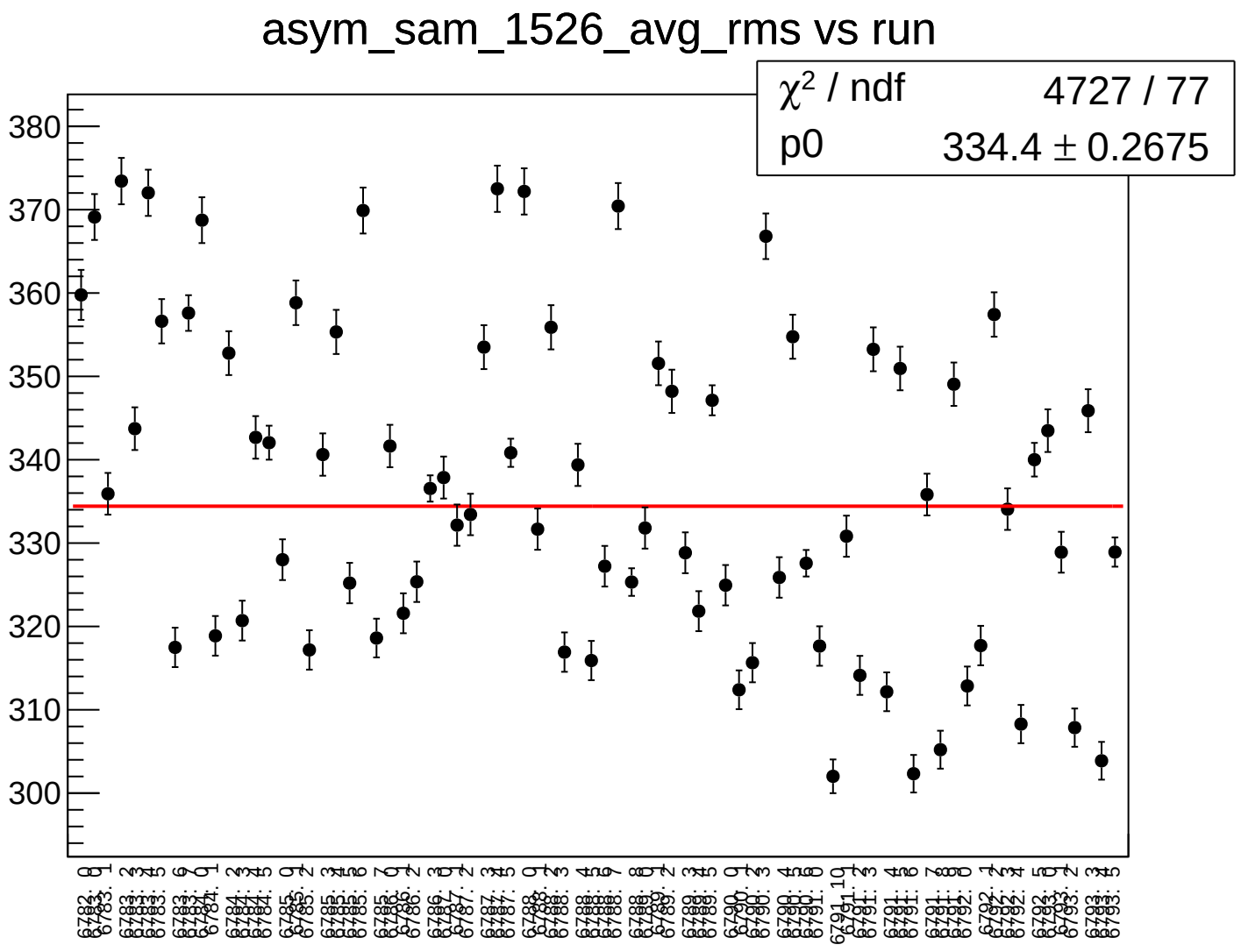

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 68.87 / 77
p0 −1270 ± 373.2
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −236.9
Std Dev 265.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

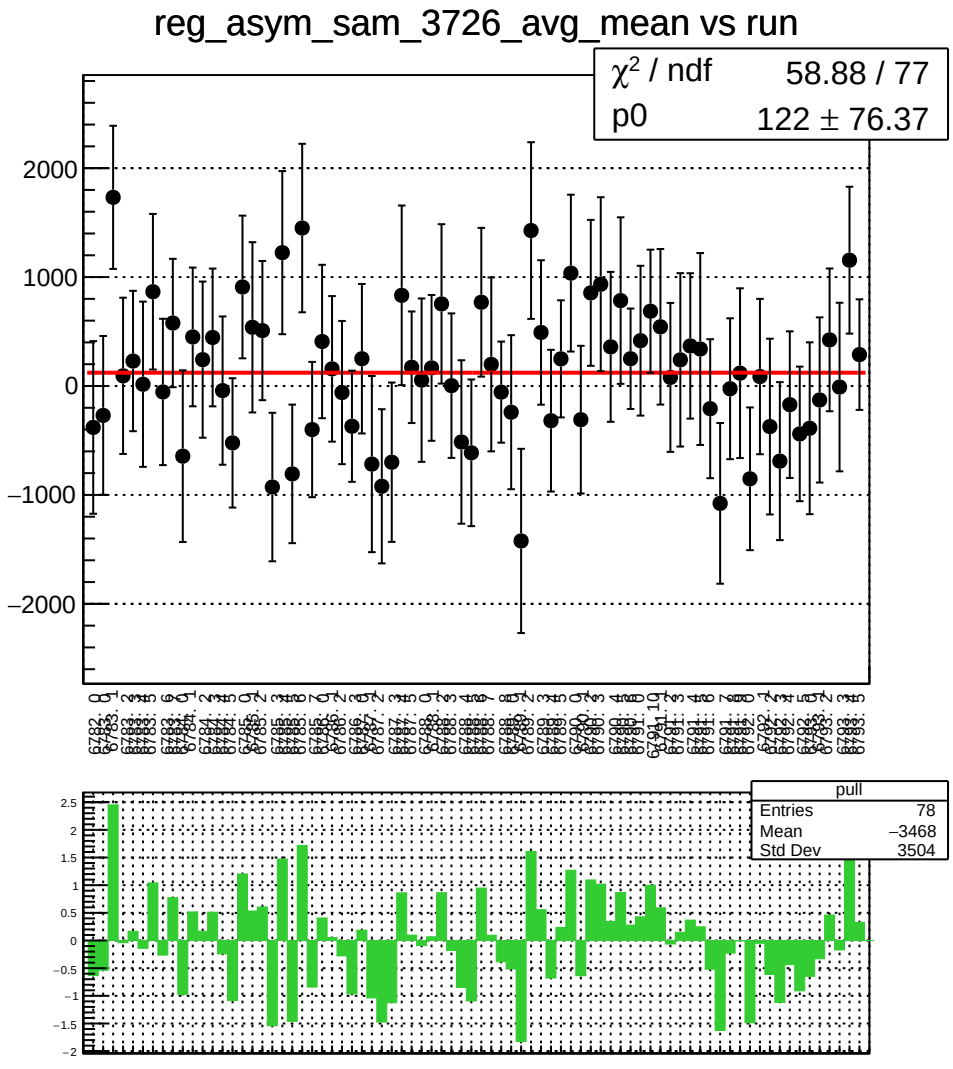

pull1D
Entries 78
Mean −0.01285
Std Dev 0.9396
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

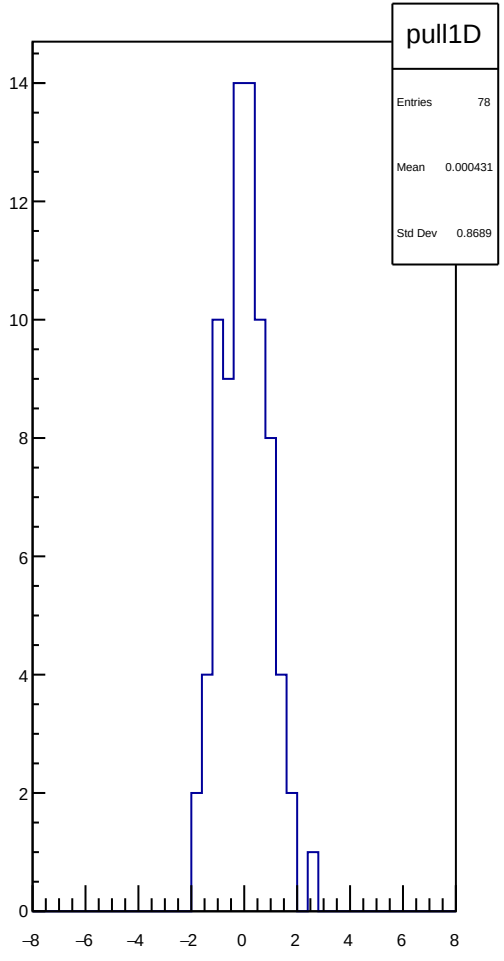

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 4853 / 77
p0 329.9 ± 0.2639
380
370
360
350
340
330
320
310
300
290

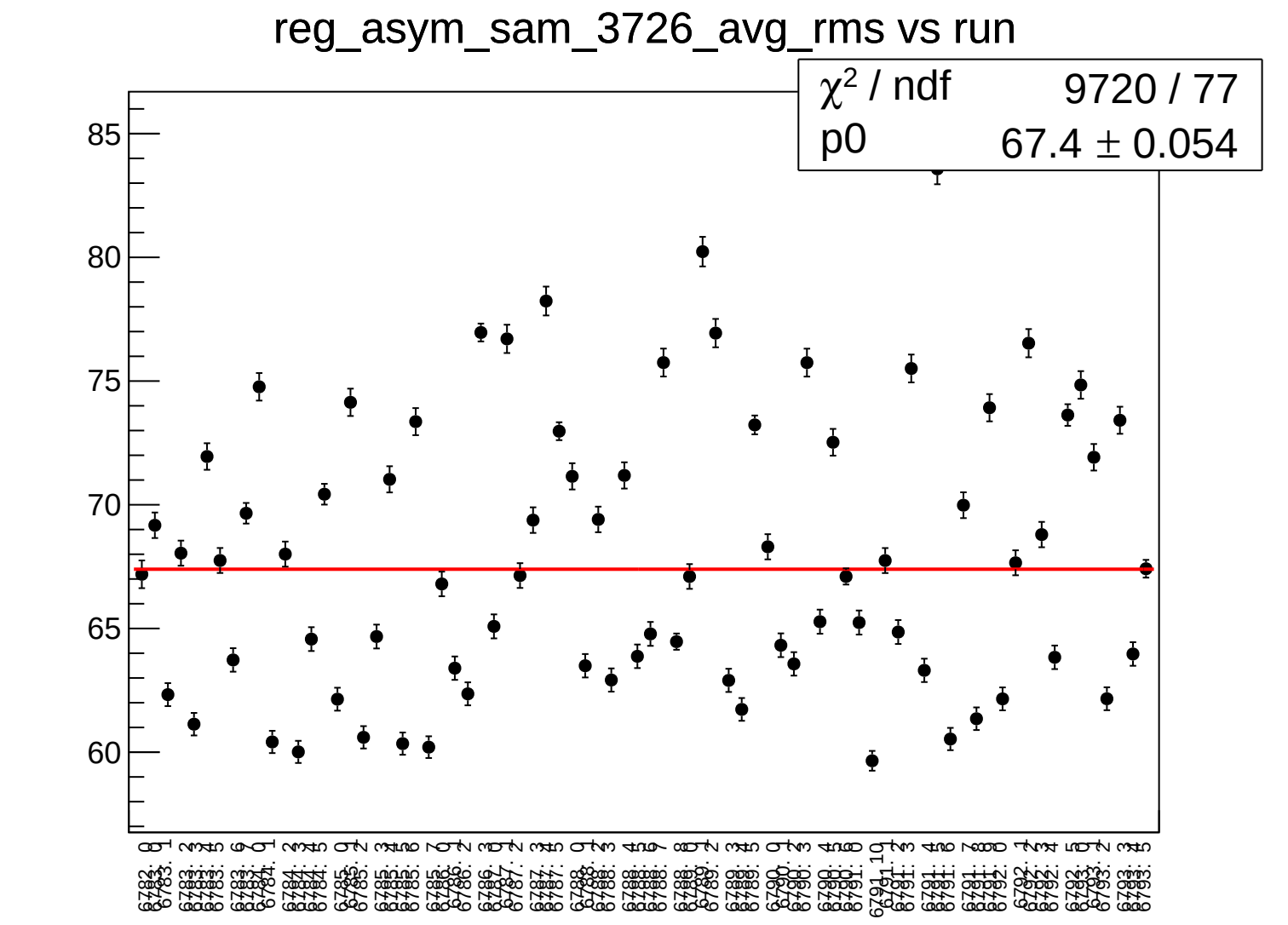

asym_sam_1526_avg_mean vs run
χ² / ndf 67.73 / 77
p0 1263 ± 378.3
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −270
Std Dev 298.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

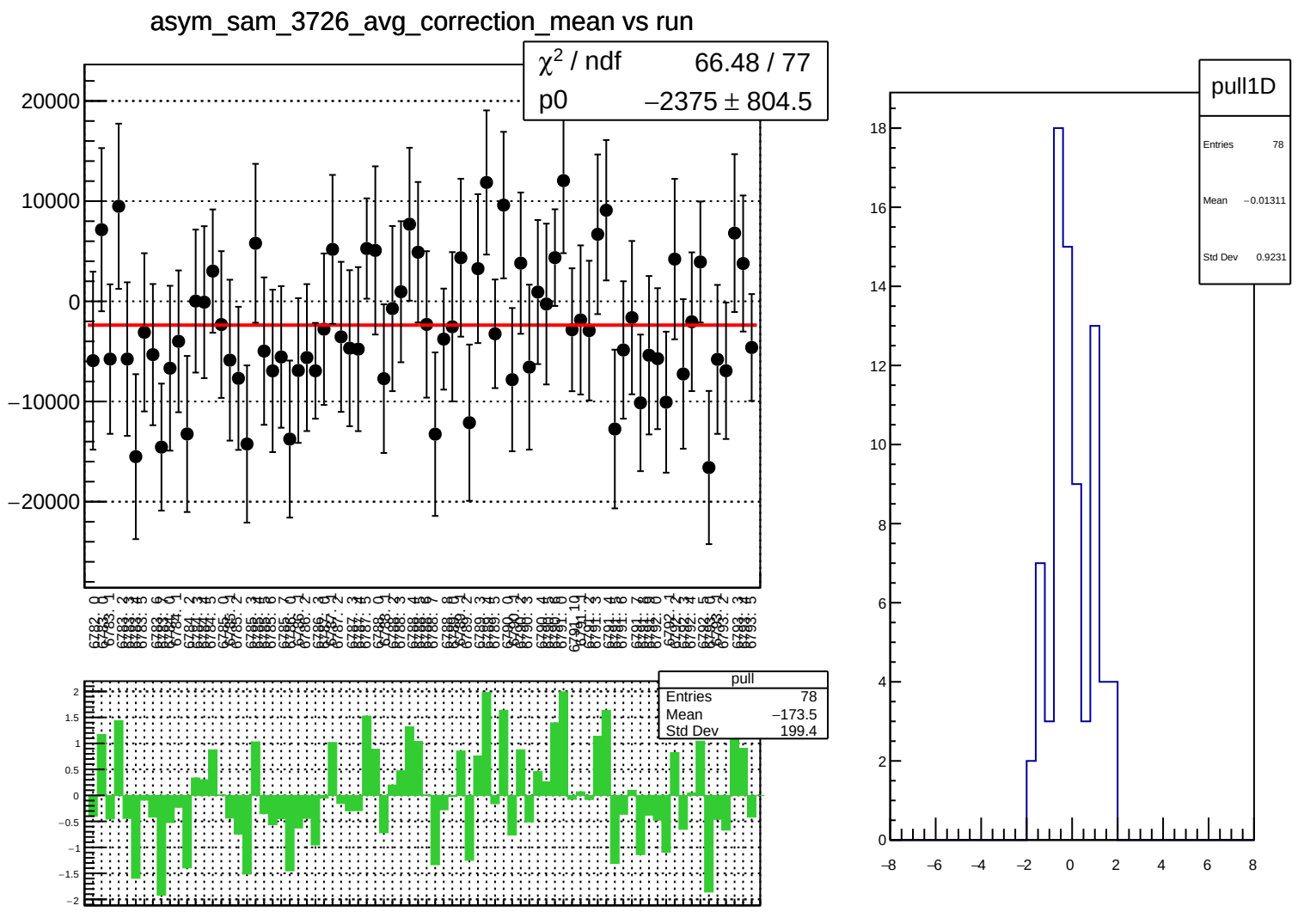

pull1D
Entries 78
Mean 0.01162
Std Dev 0.9318
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

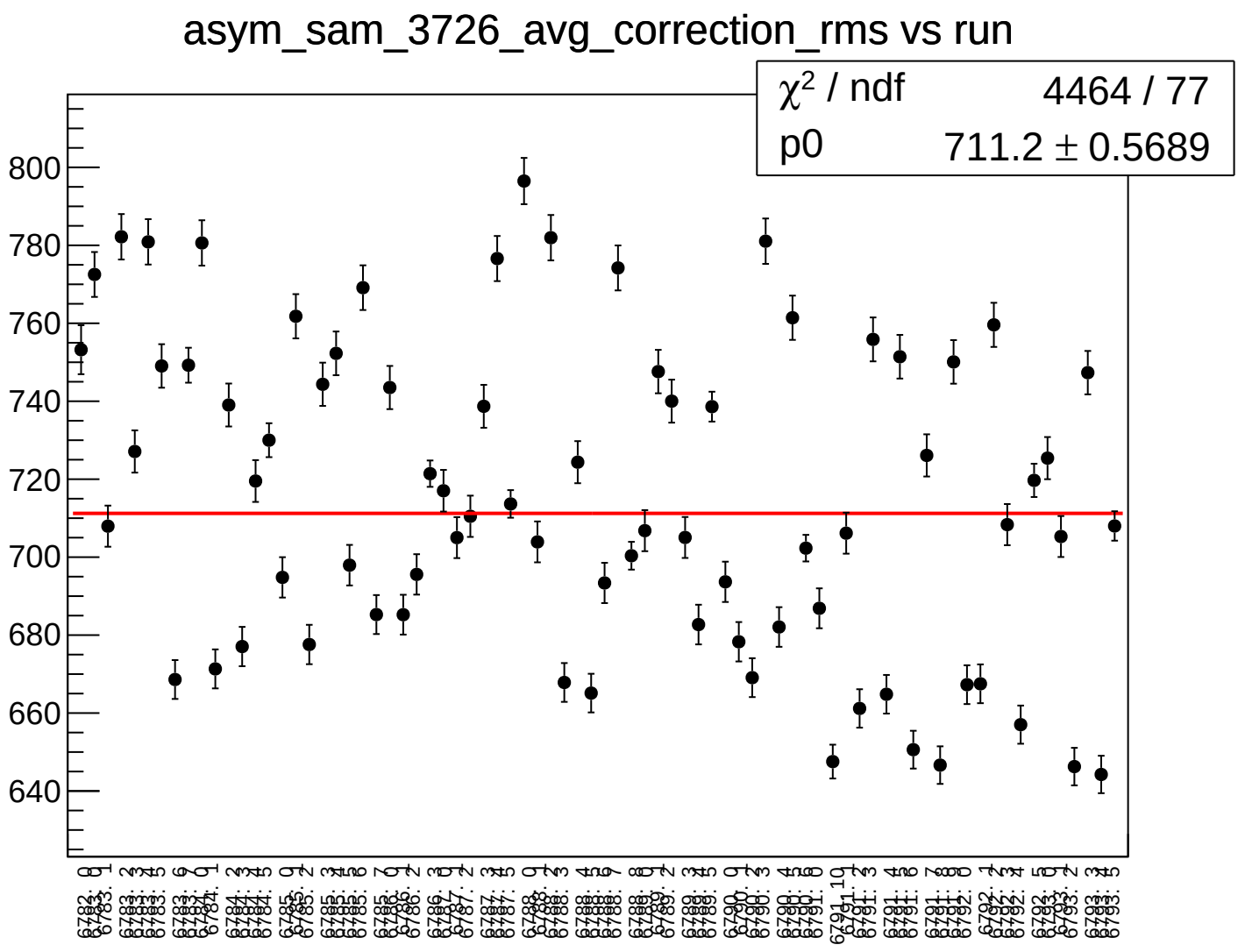

asym_sam_1526_avg_rms vs run
χ² / ndf 4727 / 77
p0 334.4 ± 0.2675
380
370
360
350
340
330
320
310
300

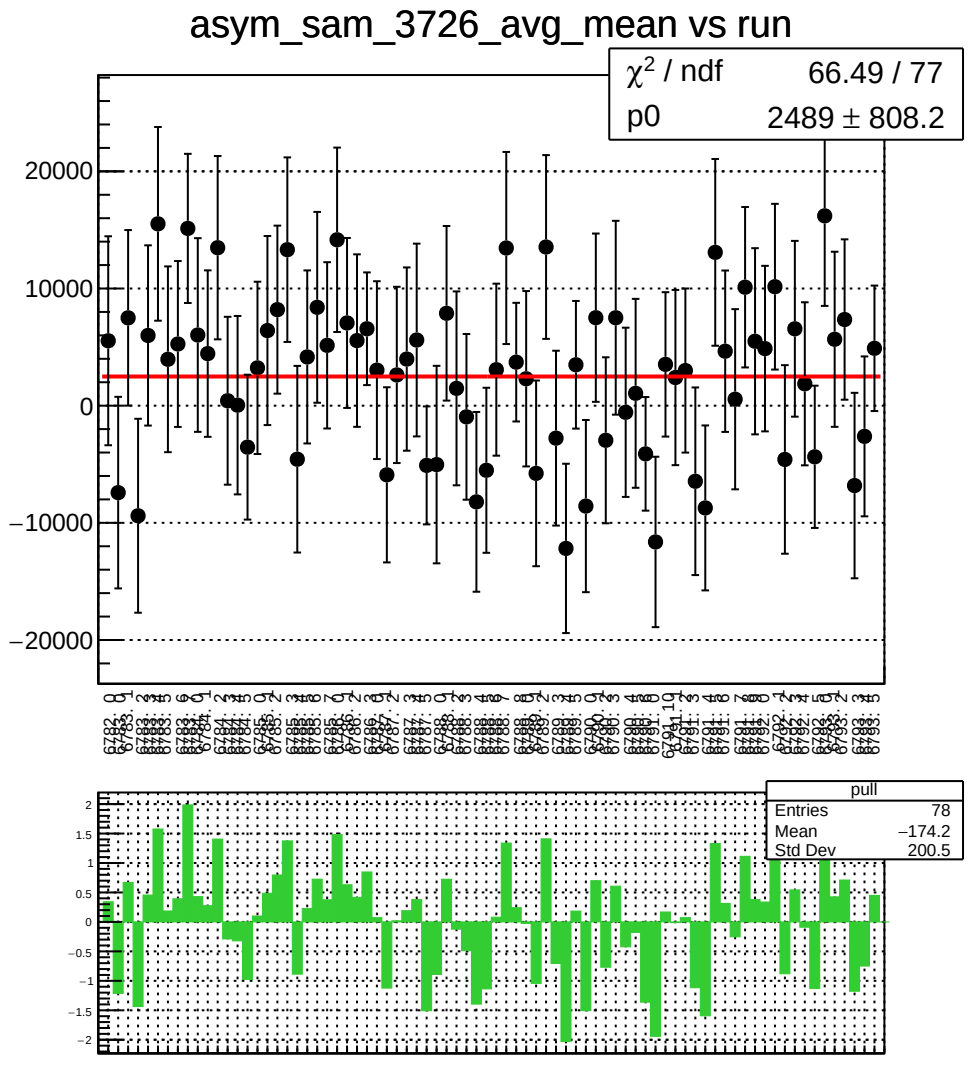

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 58.88 / 77
p0 122 ± 76.37
2000
1000
0
−1000
−2000
pull
Entries 78
Mean −3468
Std Dev 3504
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

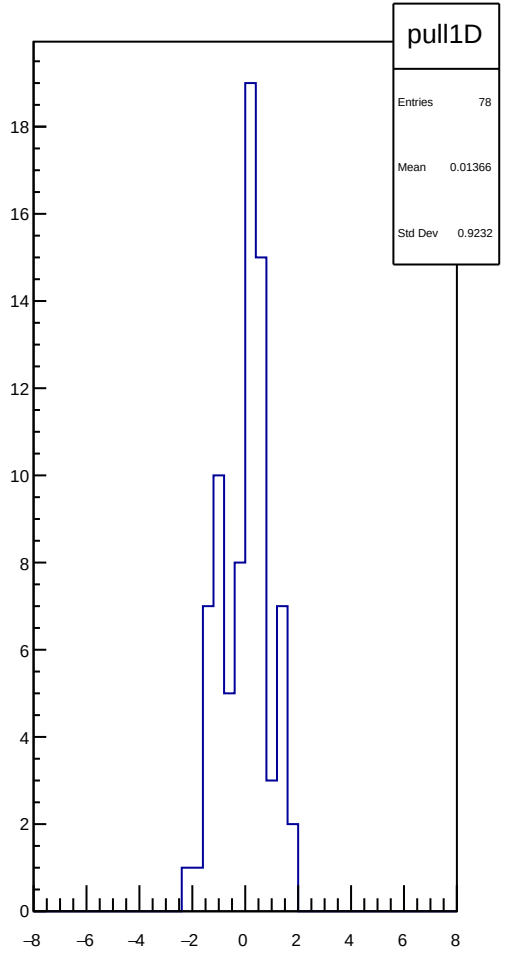

pull1D
Entries 78
Mean 0.000431
Std Dev 0.8689
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

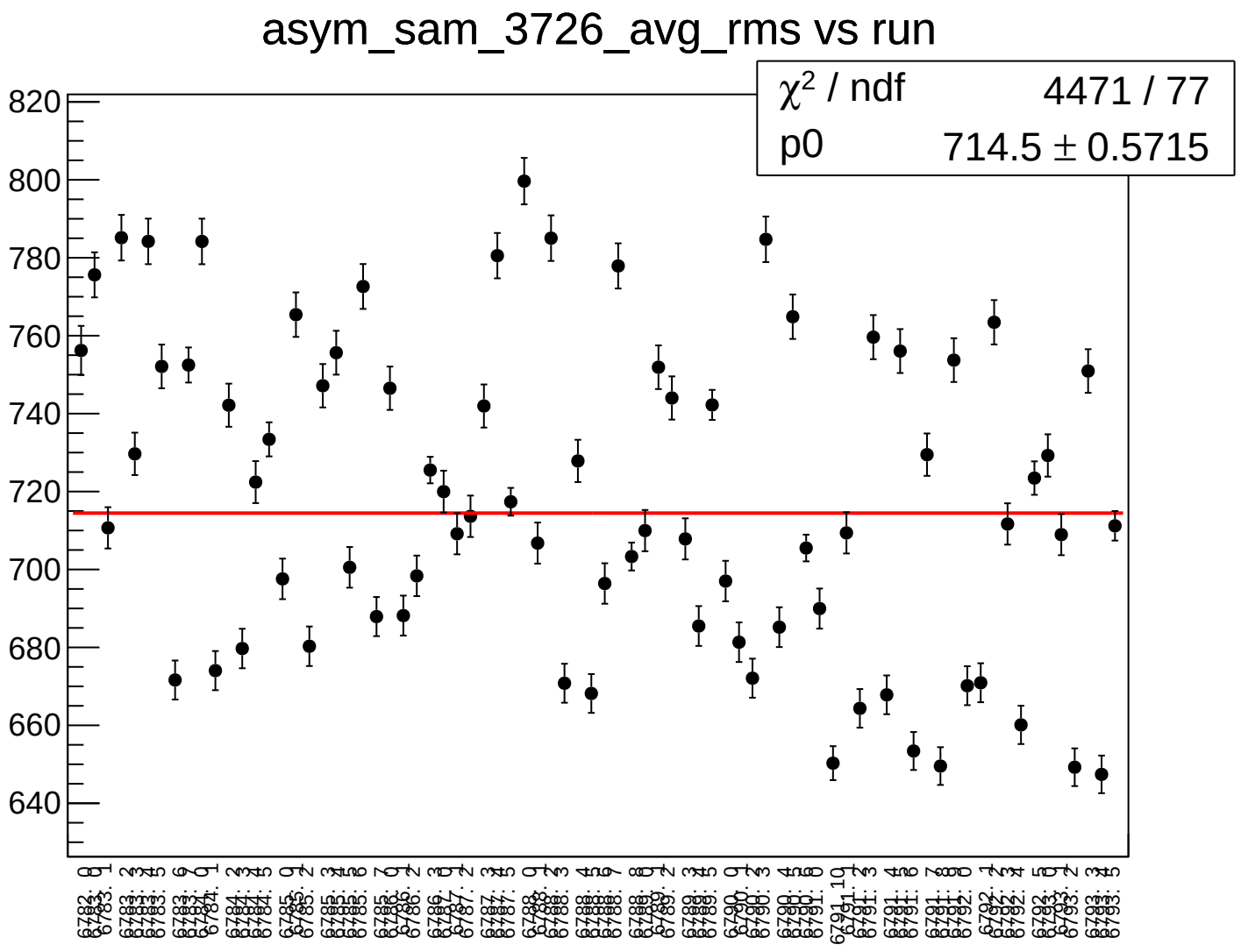

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 9720 / 77
p0 67.4 ± 0.054
85
80
75
70
65
60

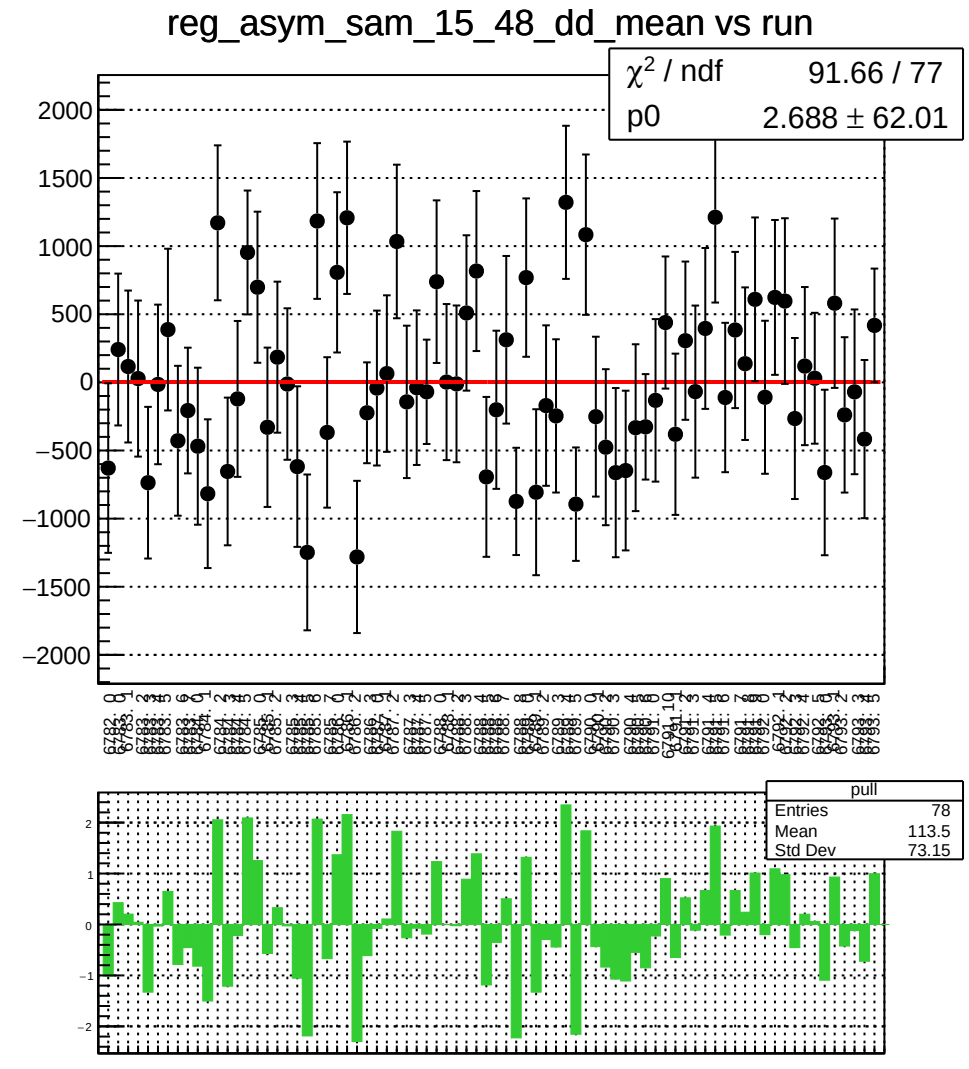

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 66.48 / 77
p0 −2375 ± 804.5
20000
10000
0
−10000
−20000
pull
Entries 78
Mean −173.5
Std Dev 199.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 78
Mean −0.01311
Std Dev 0.9231
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

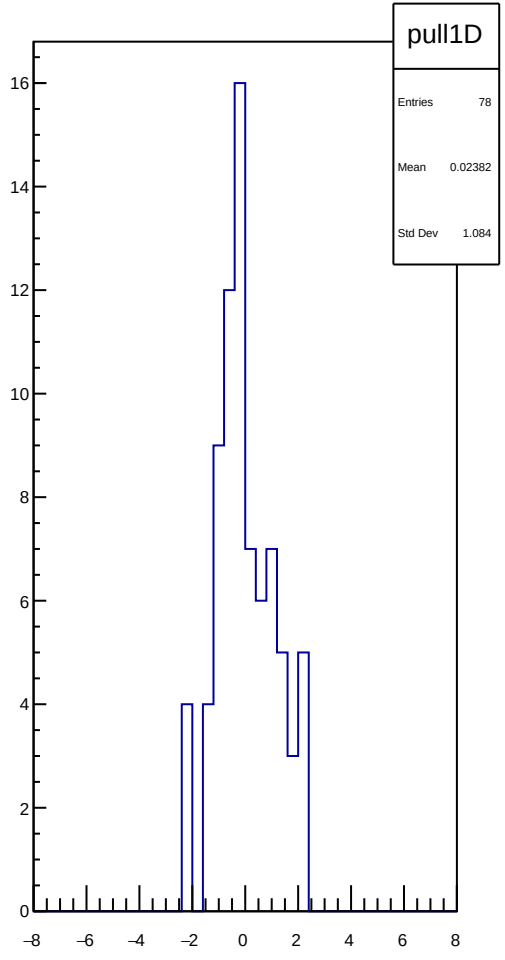

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 4464 / 77
p0 711.2 ± 0.5689
800
780
760
740
720
700
680
660
640

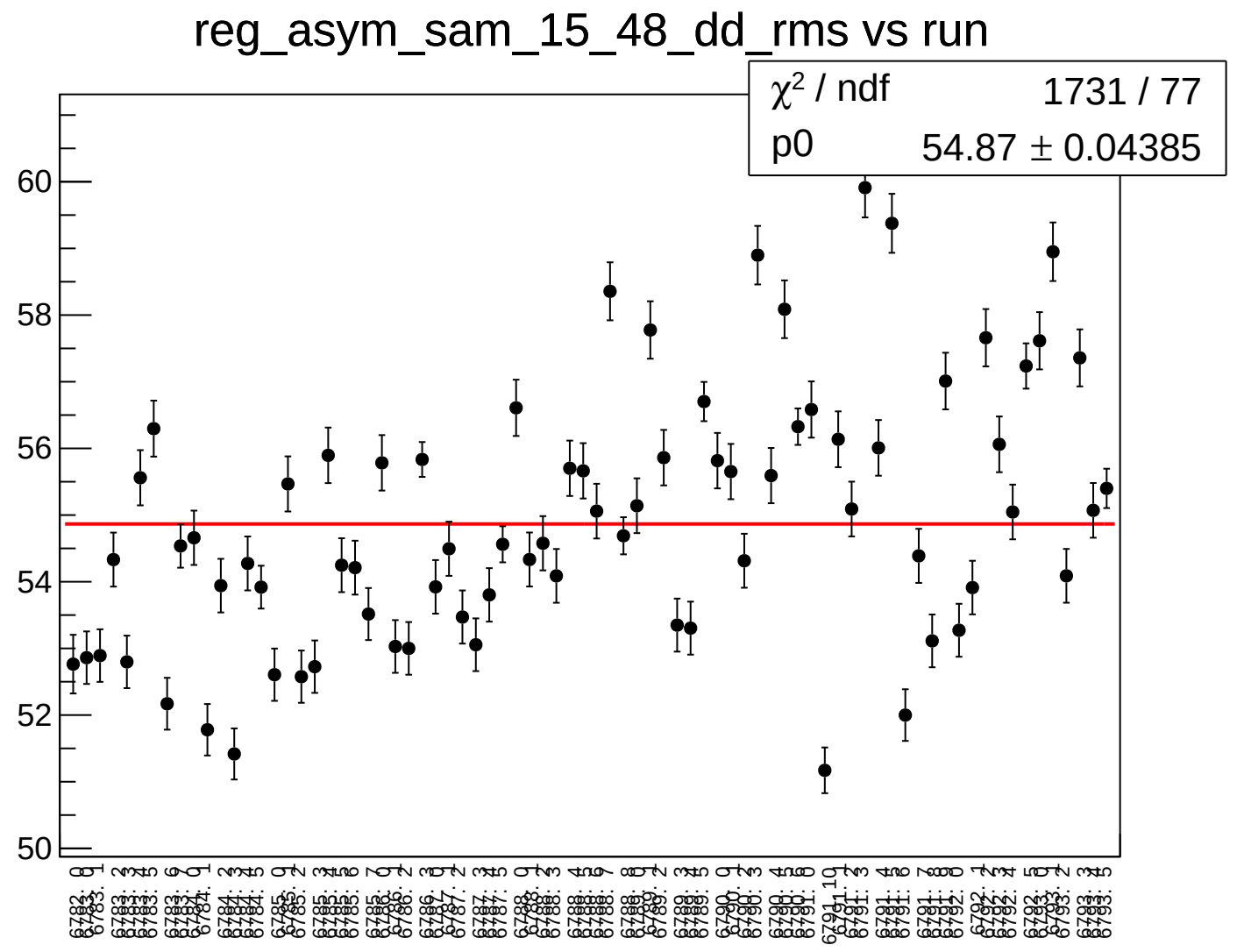

asym_sam_3726_avg_mean vs run
χ² / ndf 66.49 / 77
p0 2489 ± 808.2
20000
10000
0
−10000
−20000
pull
Entries 78
Mean −174.2
Std Dev 200.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

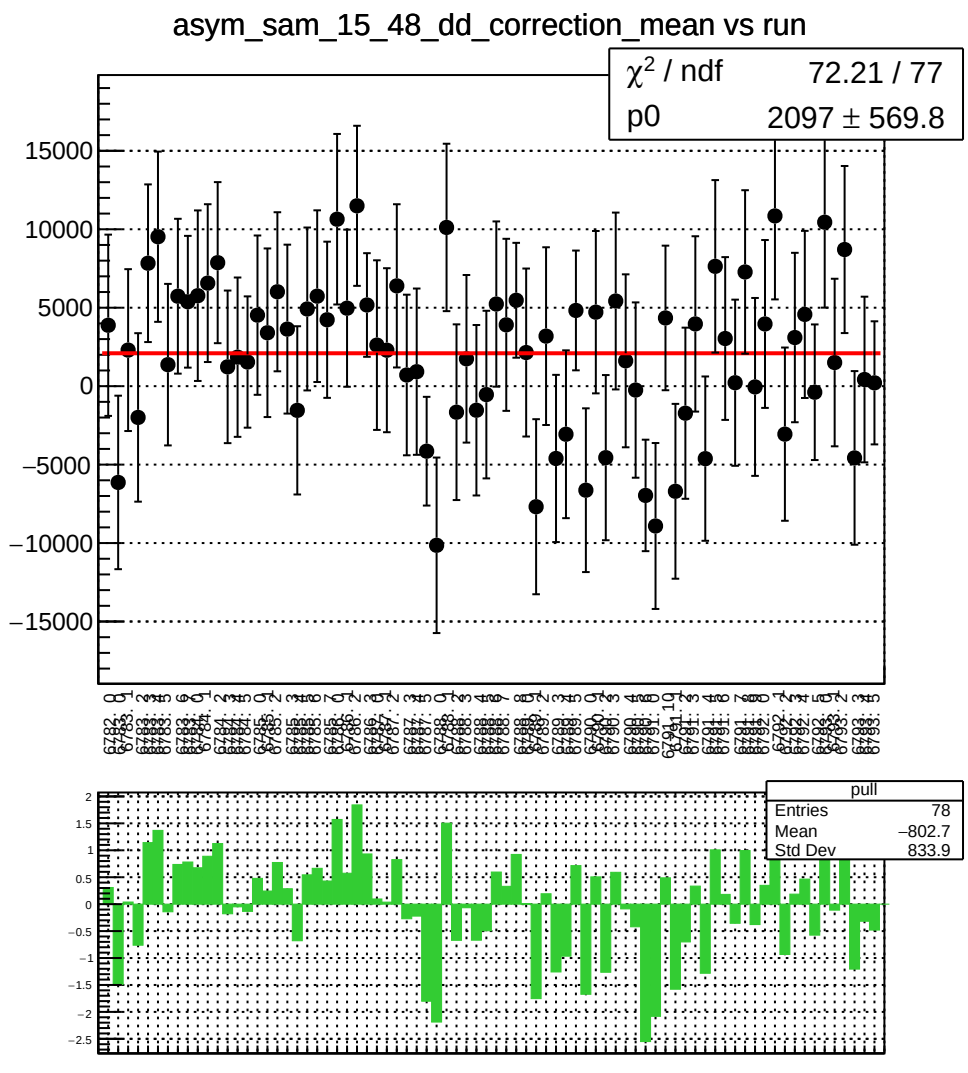

pull1D
Entries 78
Mean 0.01366
Std Dev 0.9232
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

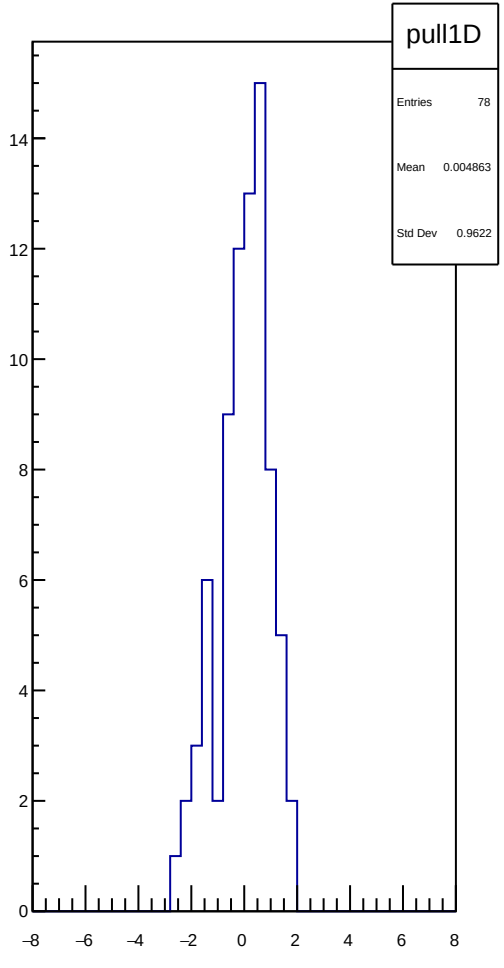

asym_sam_3726_avg_rms vs run
χ² / ndf 4471 / 77
p0 714.5 ± 0.5715
820
800
780
760
740
720
700
680
660
640

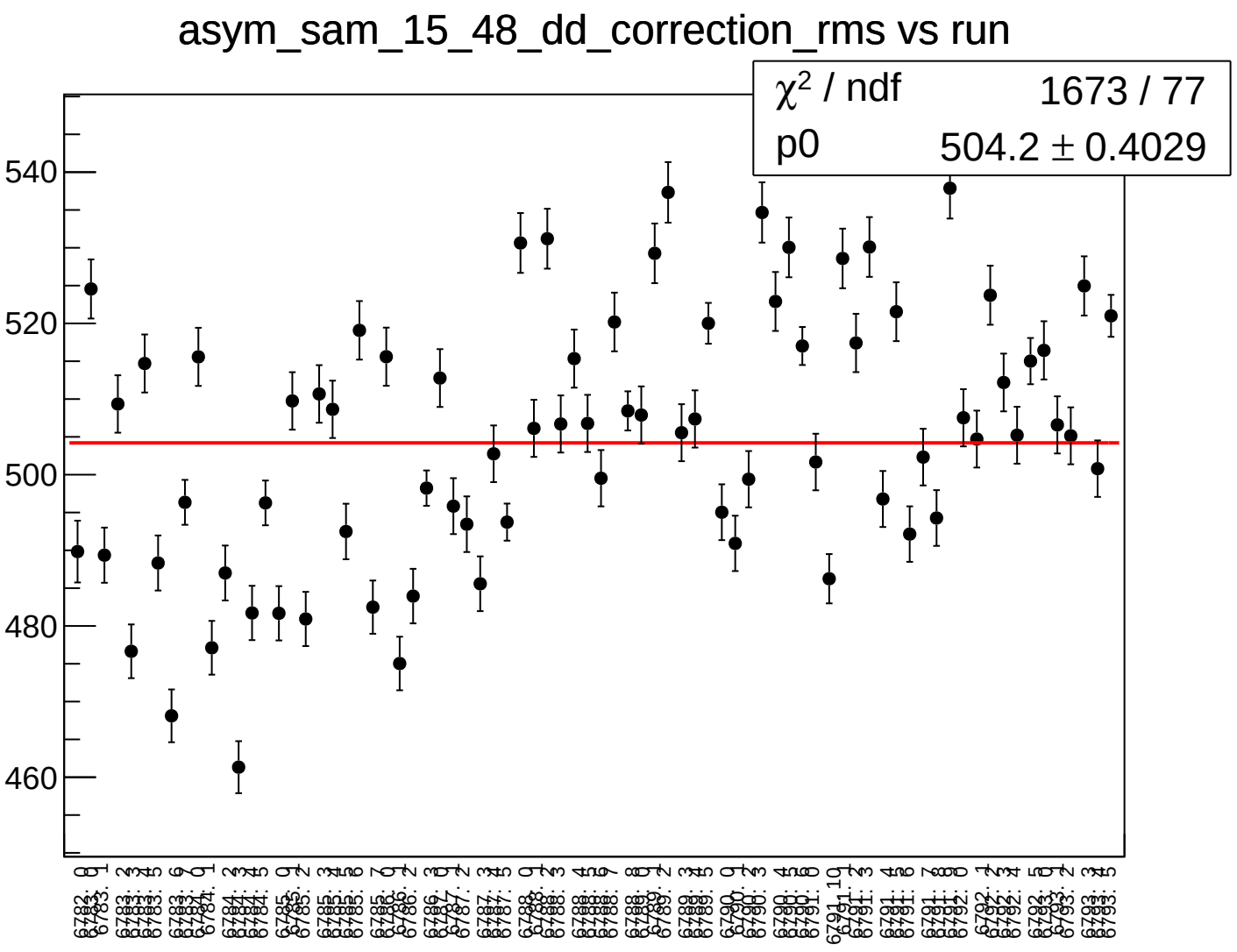

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 91.66 / 77
p0 2.688 ± 62.01
pull
Entries 78
Mean 113.5
Std Dev 73.15

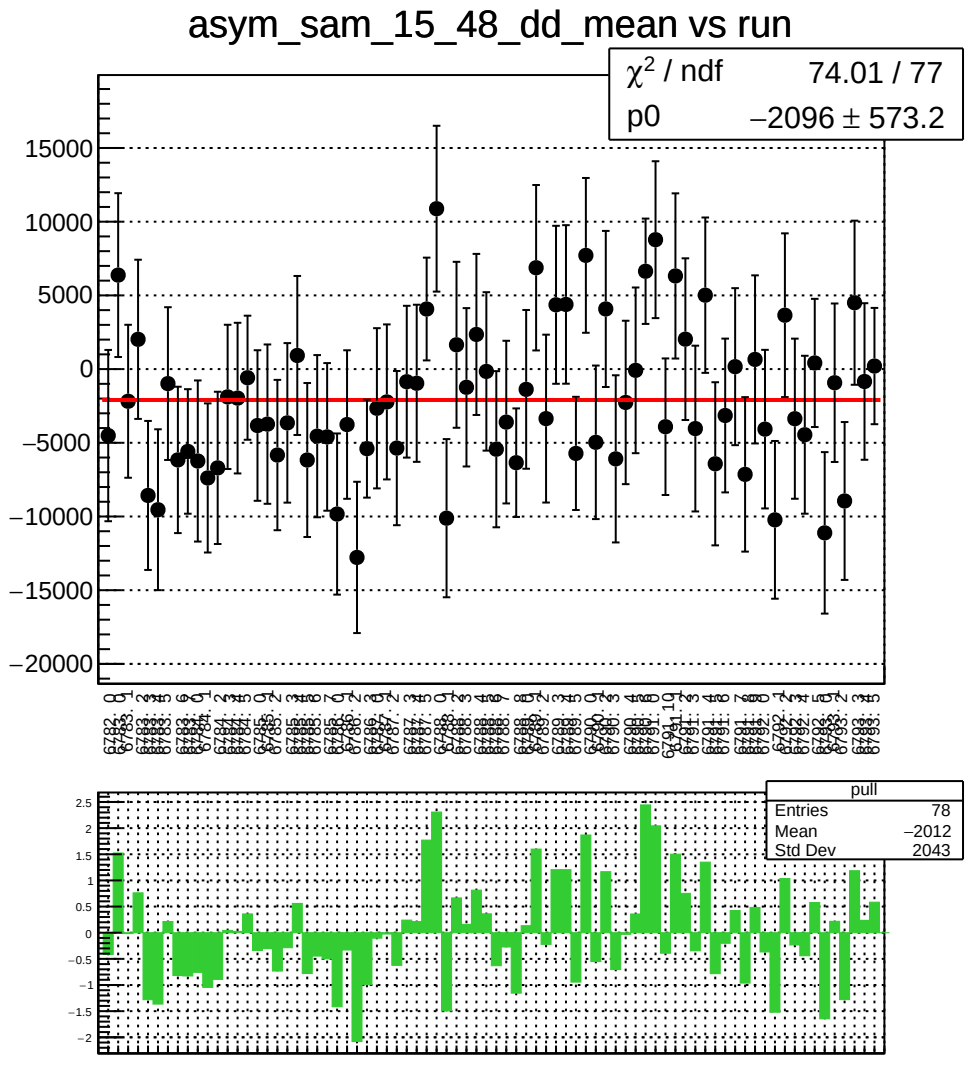

pull1D
Entries 78
Mean 0.02382
Std Dev 1.084

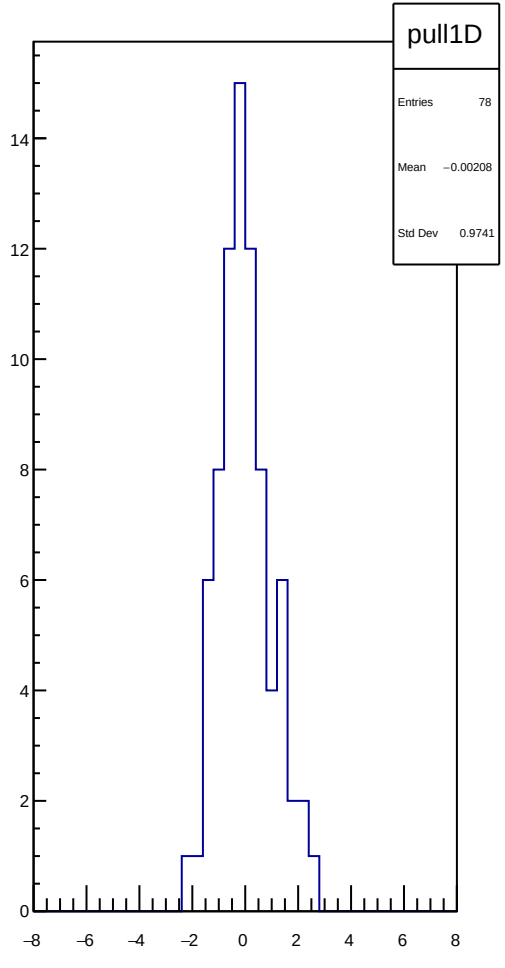

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1731 / 77
p0 54.87 ± 0.04385
60
58
56
54
52
50

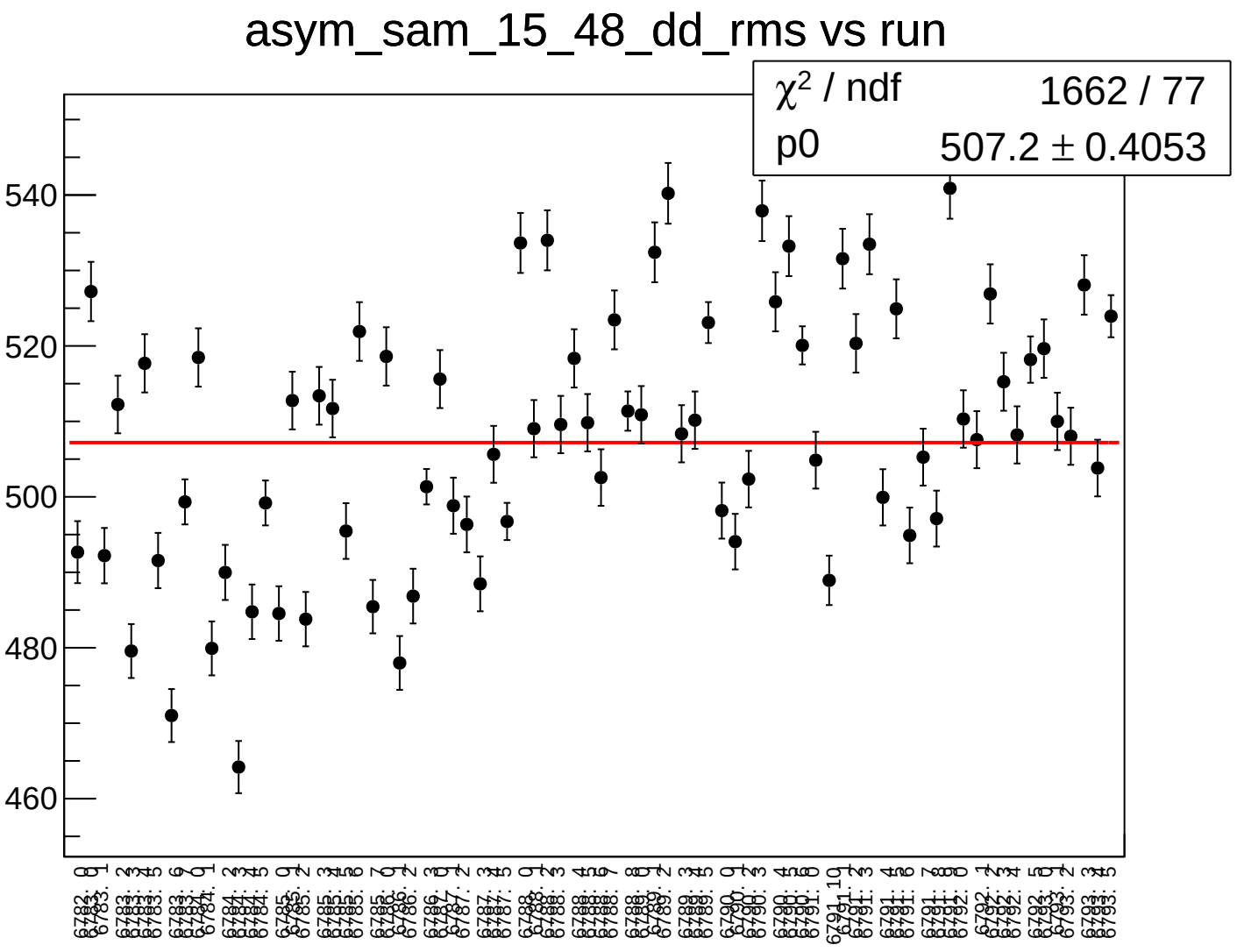

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 72.21 / 77
p0 2097 ± 569.8
pull
Entries 78
Mean −802.7
Std Dev 833.9

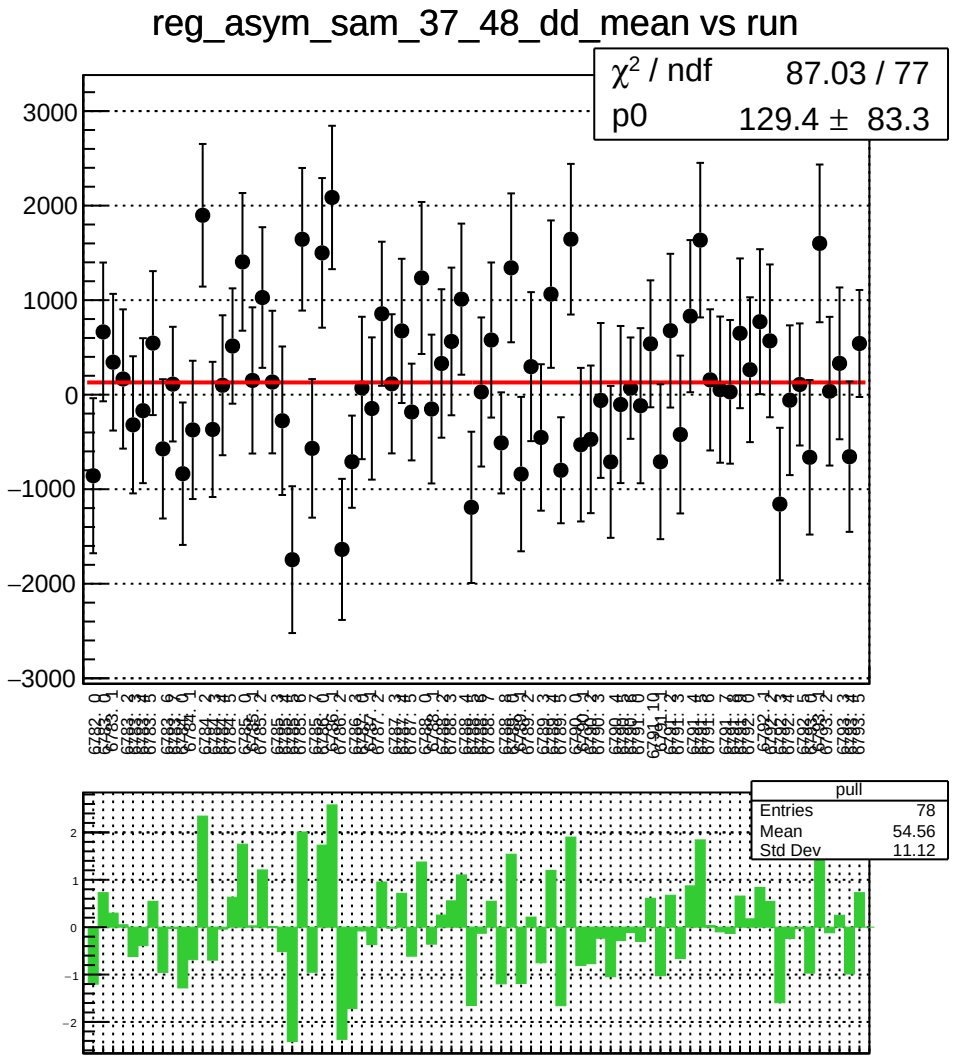

pull1D
Entries 78
Mean 0.004863
Std Dev 0.9622

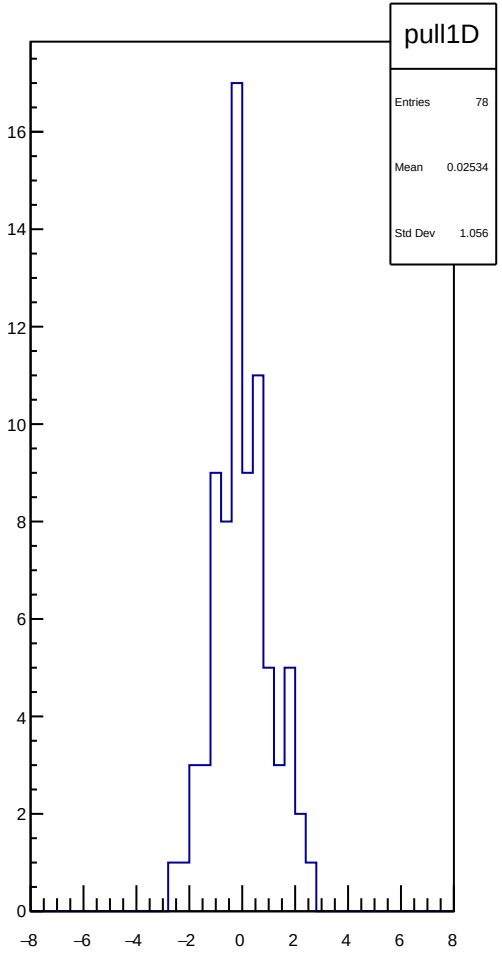

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 1673 / 77
p0 504.2 ± 0.4029
540
520
500
480
460

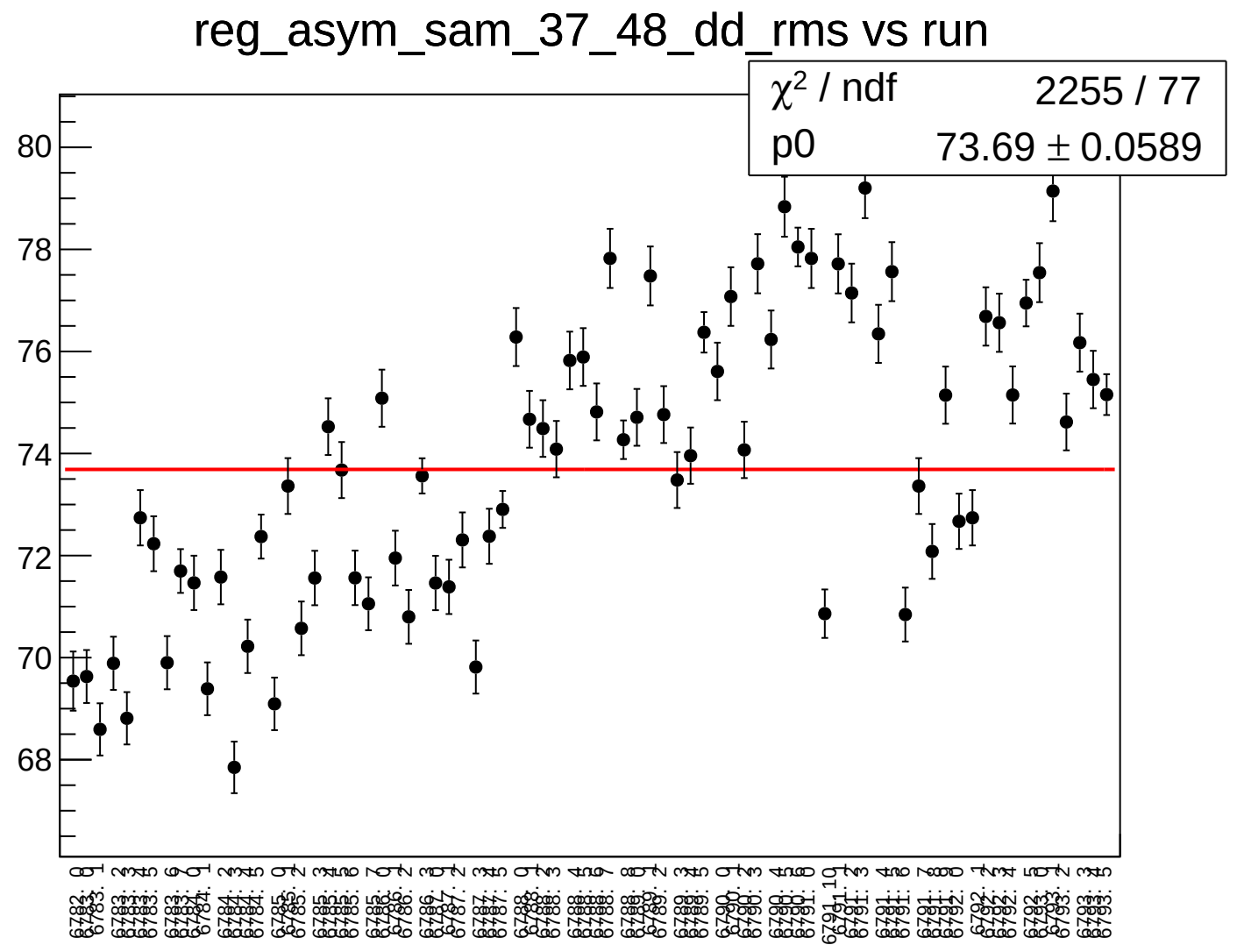

asym_sam_15_48_dd_mean vs run
χ² / ndf 74.01 / 77
p0 −2096 ± 573.2
pull
Entries 78
Mean −2012
Std Dev 2043

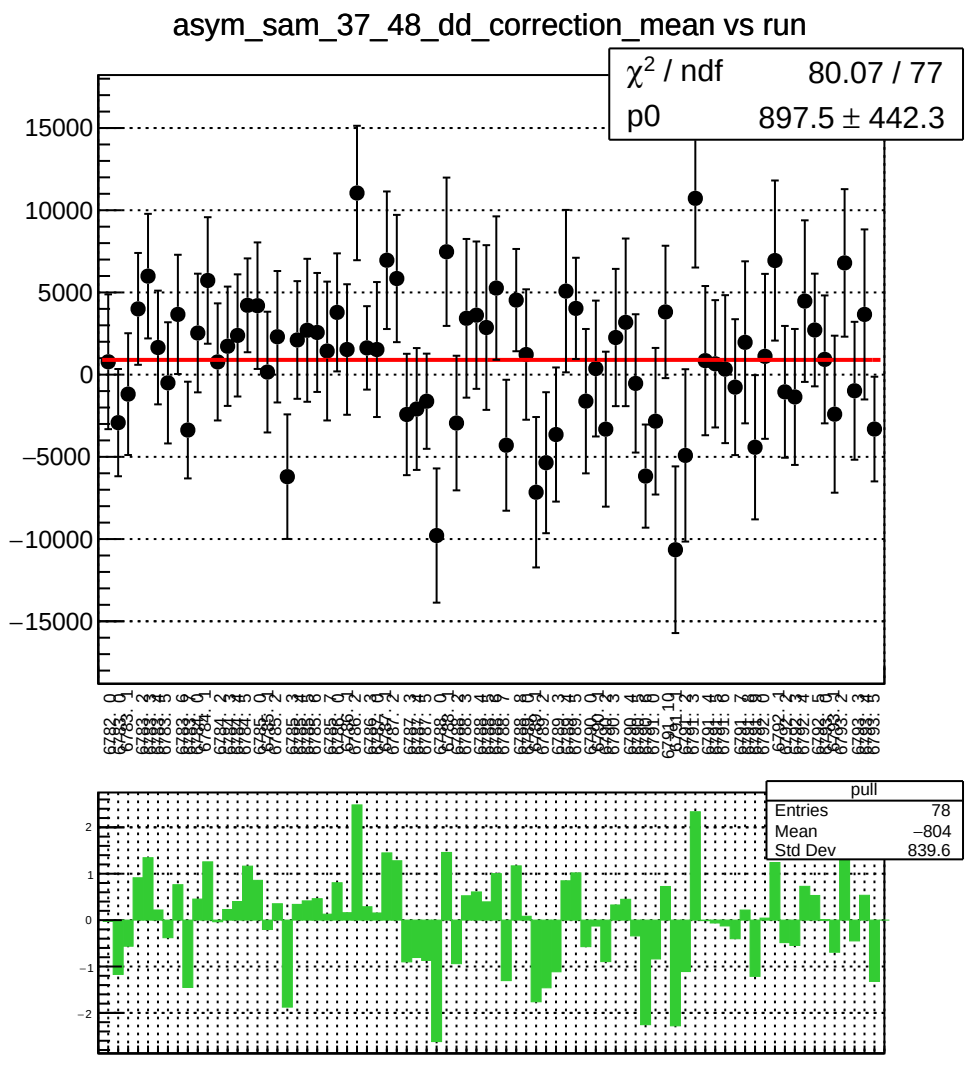

pull1D
Entries 78
Mean −0.00208
Std Dev 0.9741

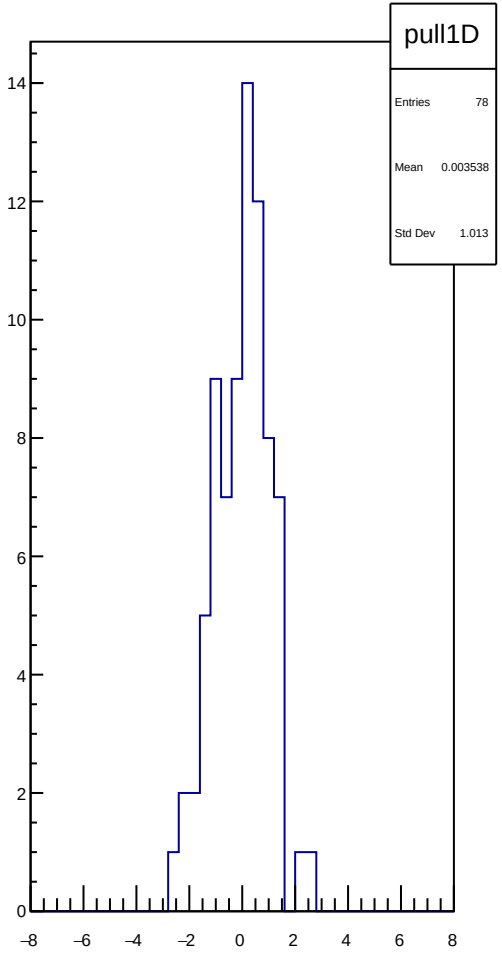

asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1662 / 77
p0 507.2 ± 0.4053
540
520
500
480
460

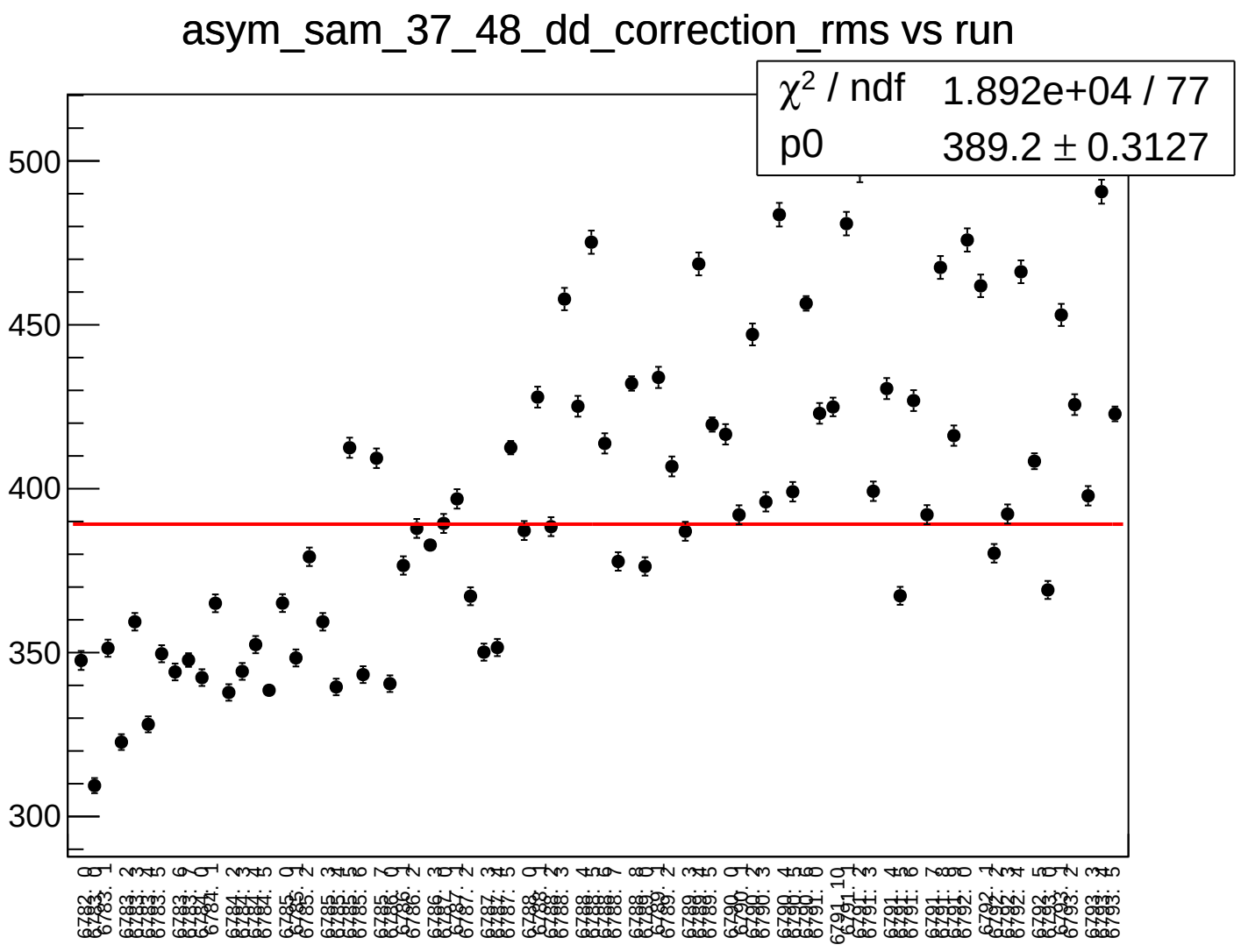

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 87.03 / 77
p0 129.4 ± 83.3
pull
Entries 78
Mean 54.56
Std Dev 11.12

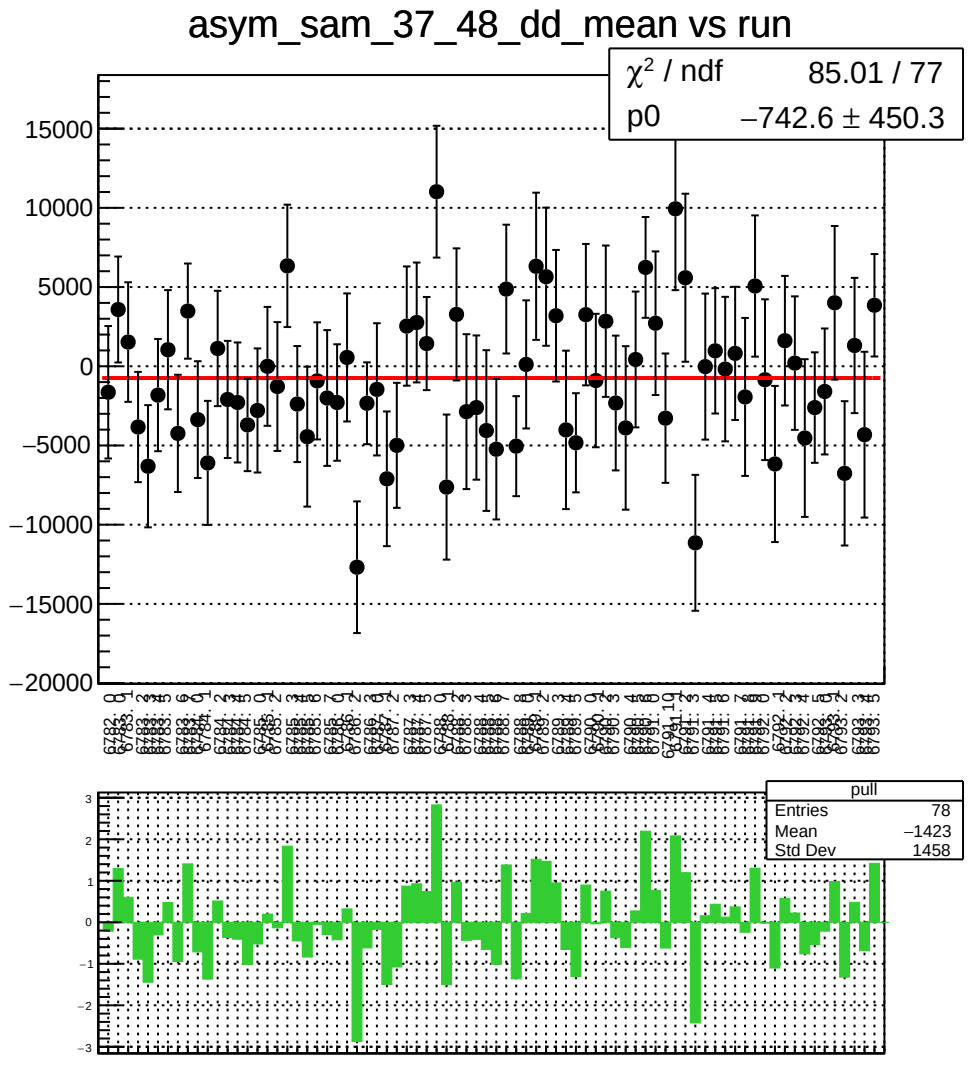

pull1D
Entries 78
Mean 0.02534
Std Dev 1.056

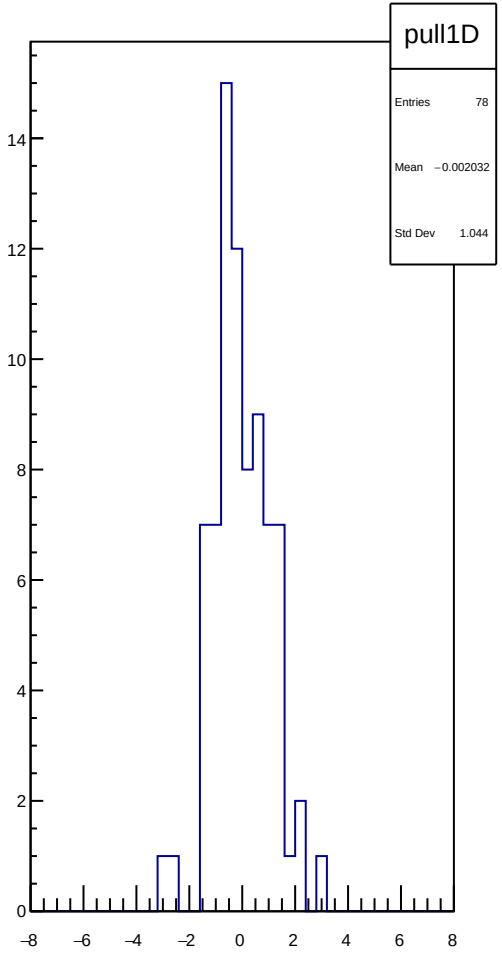

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 2255 / 77
p0 73.69 ± 0.0589
80
78
76
74
72
70
68

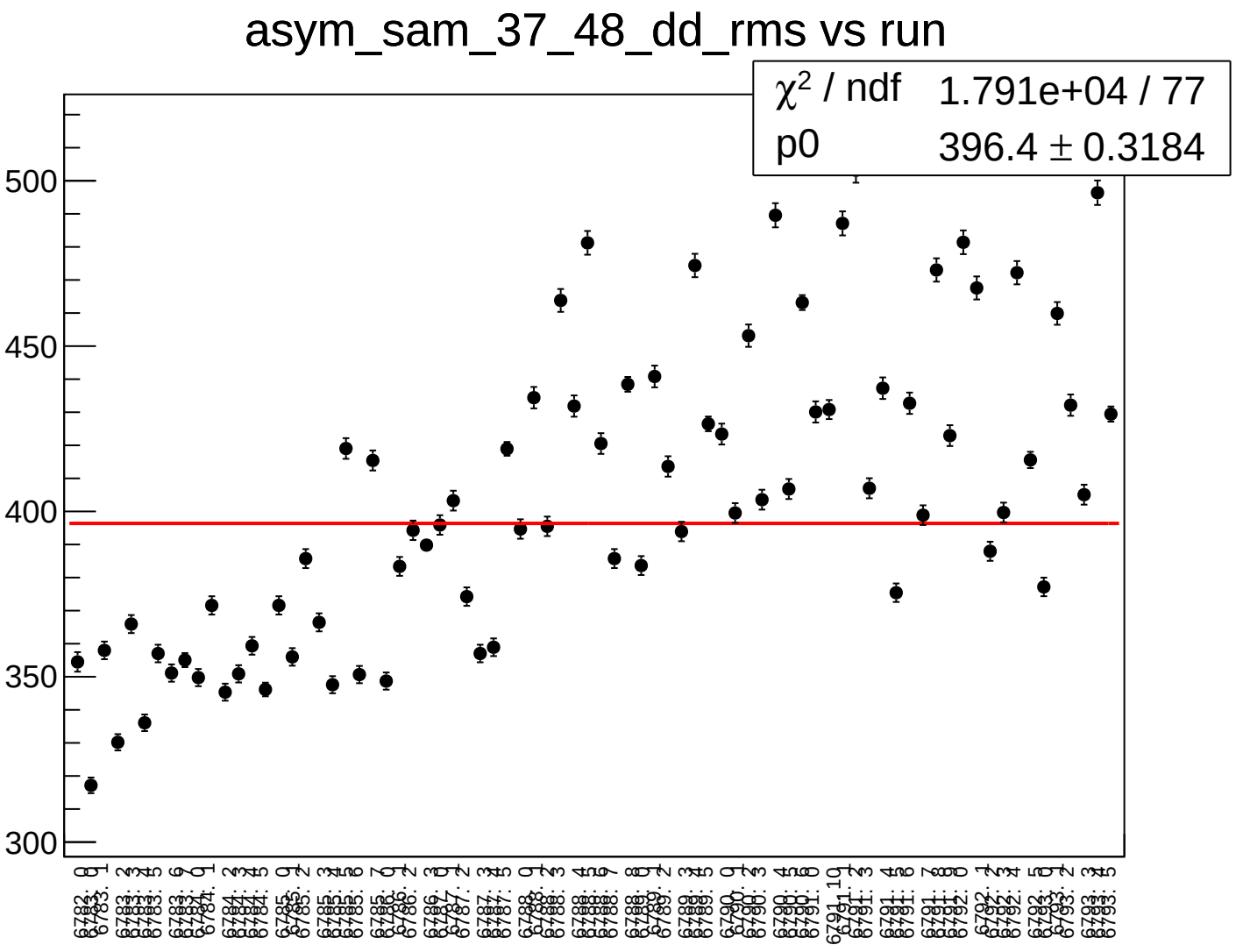

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 80.07 / 77
p0 897.5 ± 442.3
pull
Entries 78
Mean −804
Std Dev 839.6

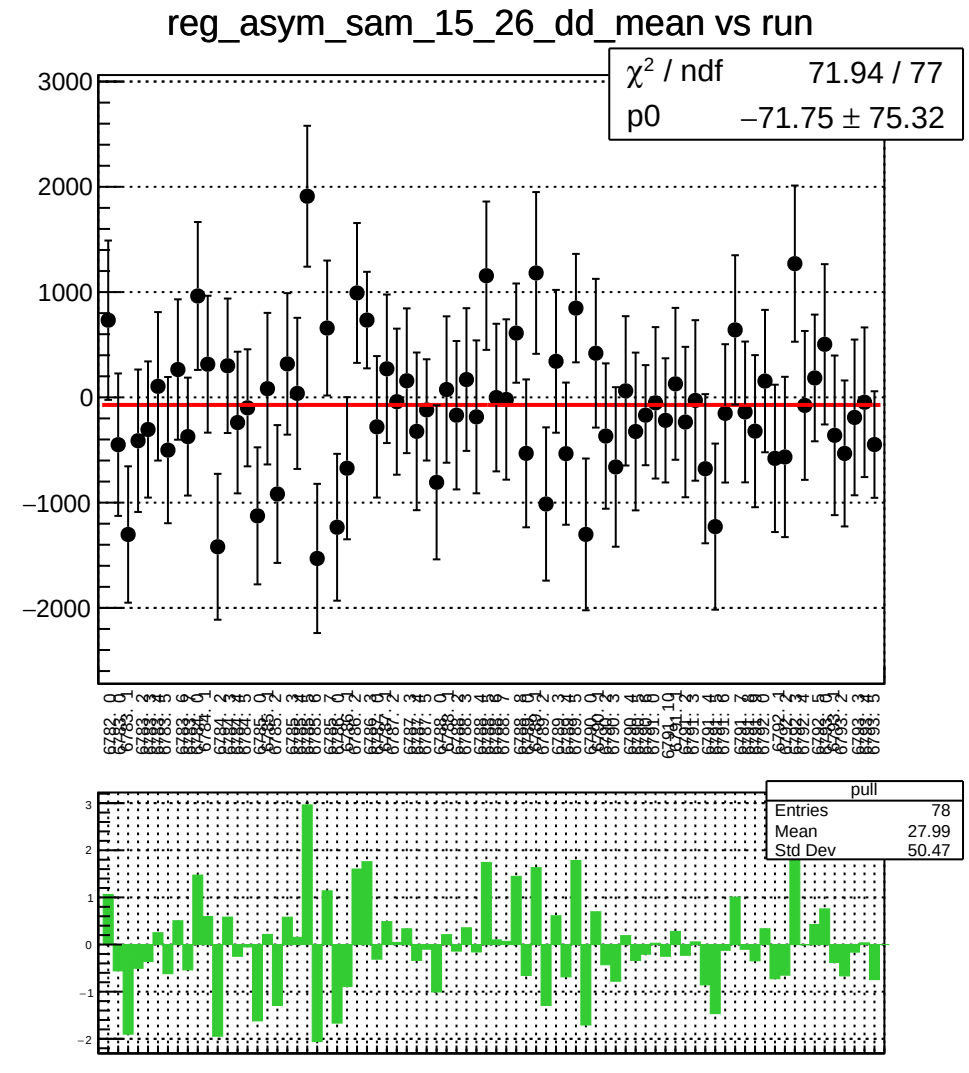

pull1D
Entries 78
Mean 0.003538
Std Dev 1.013

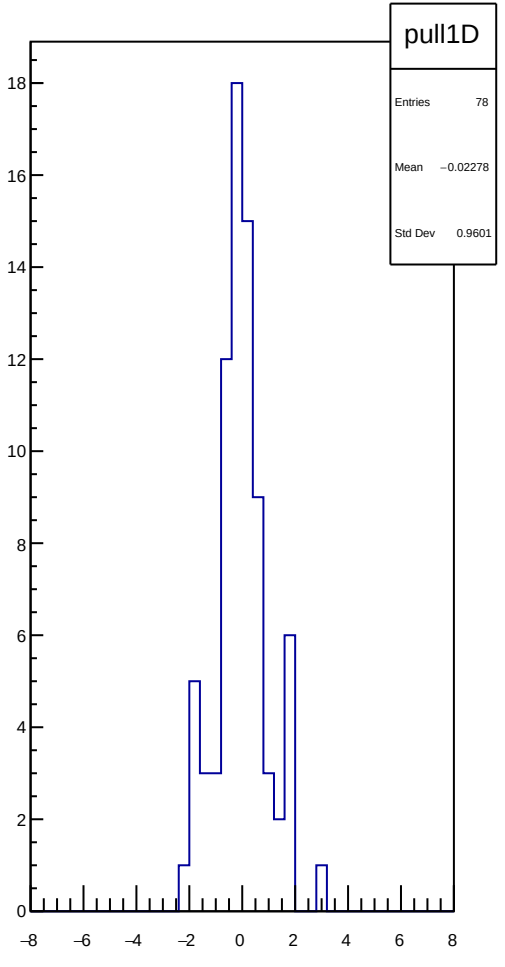

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 1.892e+04 / 77
p0 389.2 ± 0.3127
500
450
400
350
300

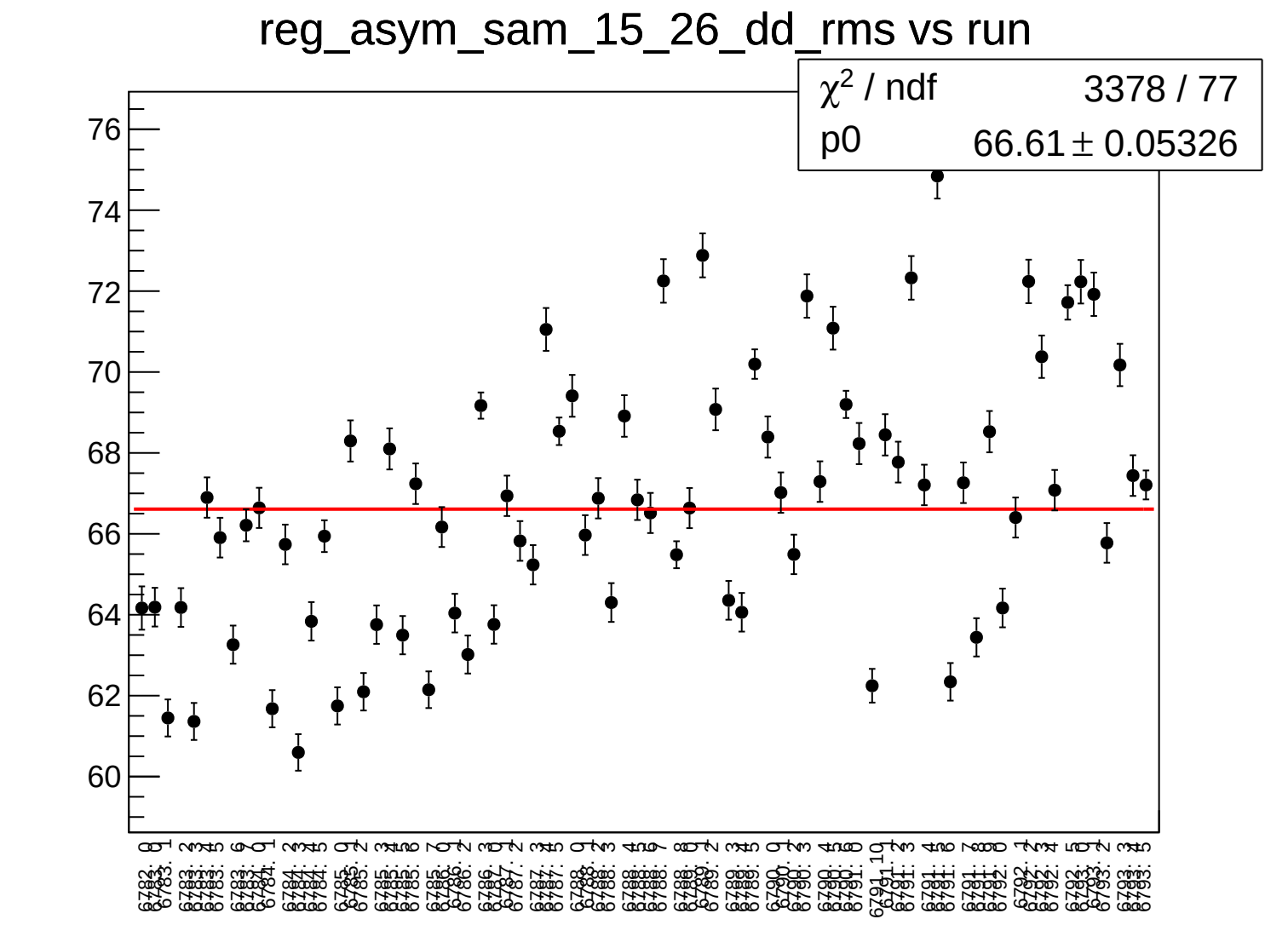

asym_sam_37_48_dd_mean vs run
χ² / ndf 85.01 / 77
p0 −742.6 ± 450.3
pull
Entries 78
Mean −1423
Std Dev 1458

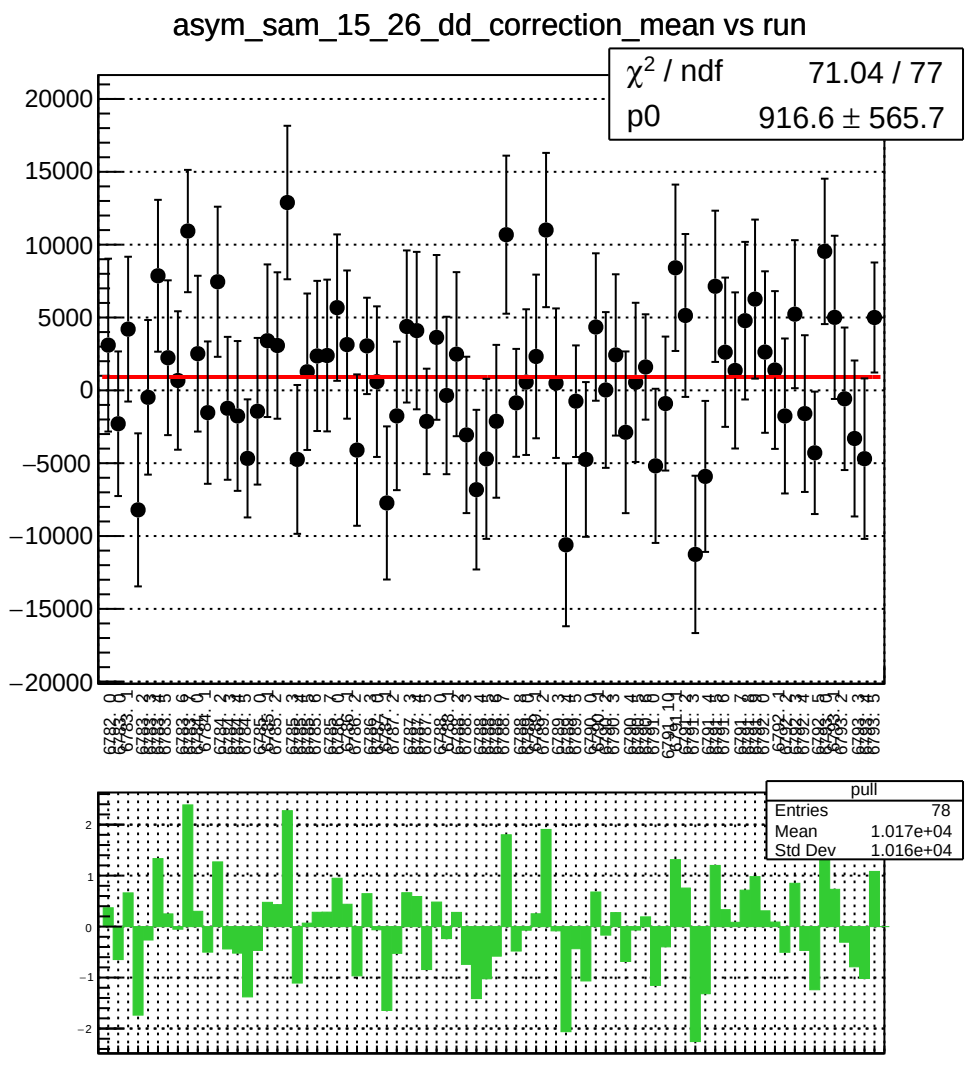

pull1D
Entries 78
Mean −0.002032
Std Dev 1.044

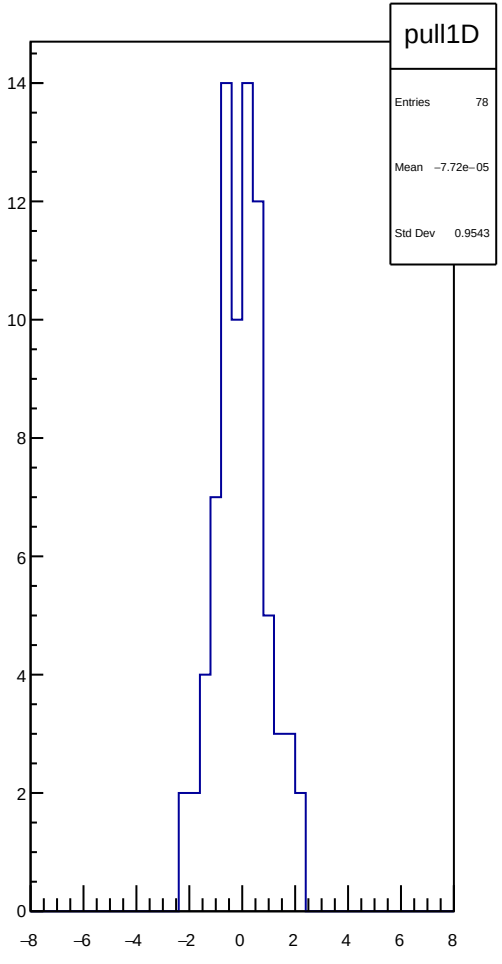

asym_sam_37_48_dd_rms vs run
χ² / ndf 1.791e+04 / 77
p0 396.4 ± 0.3184
500
450
400
350
300

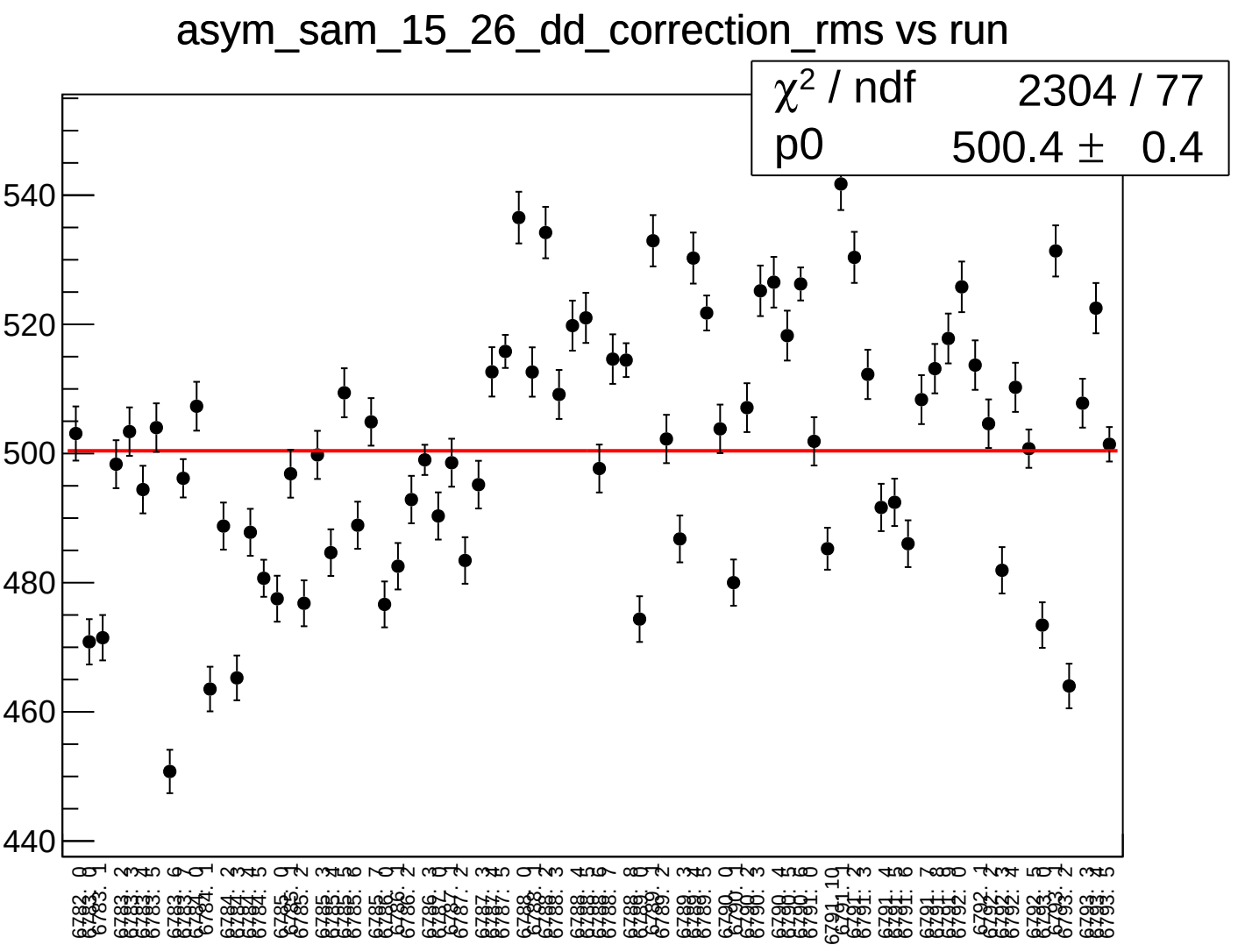

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 71.94 / 77
p0 −71.75 ± 75.32
pull
Entries 78
Mean 27.99
Std Dev 50.47

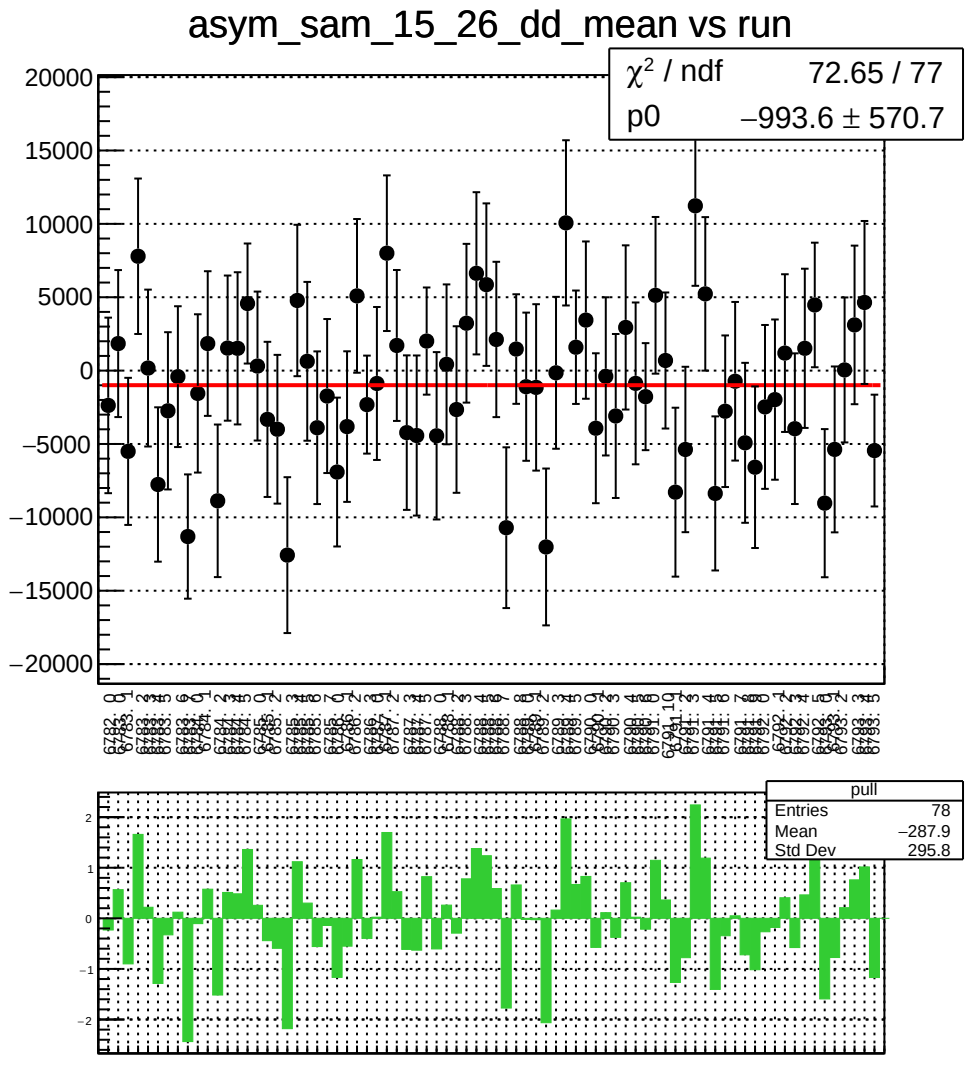

pull1D
Entries 78
Mean −0.02278
Std Dev 0.9601

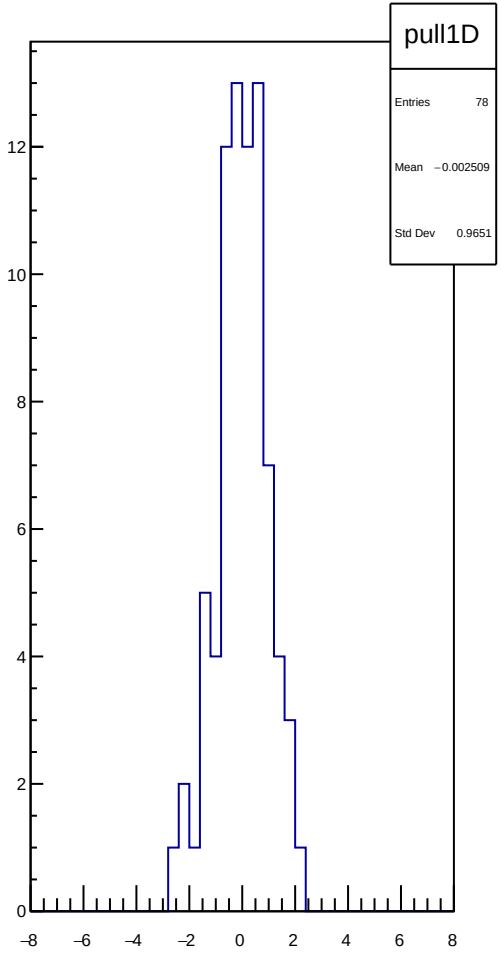

reg_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 3378 / 77
p0 66.61 ± 0.05326
76
74
72
70
68
66
64
62
60

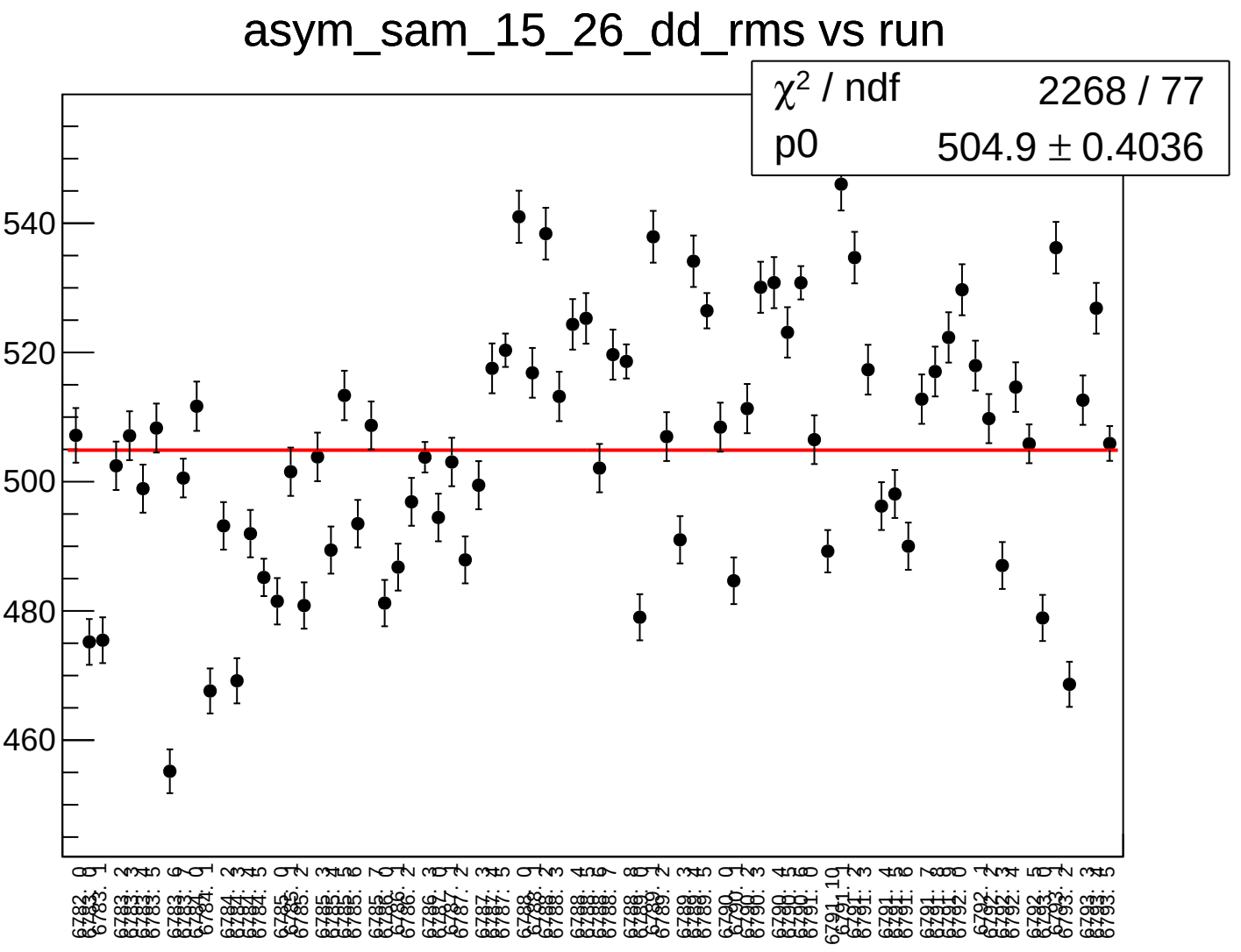

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 71.04 / 77
p0 916.6 ± 565.7
pull
Entries 78
Mean 1.017e+04
Std Dev 1.016e+04

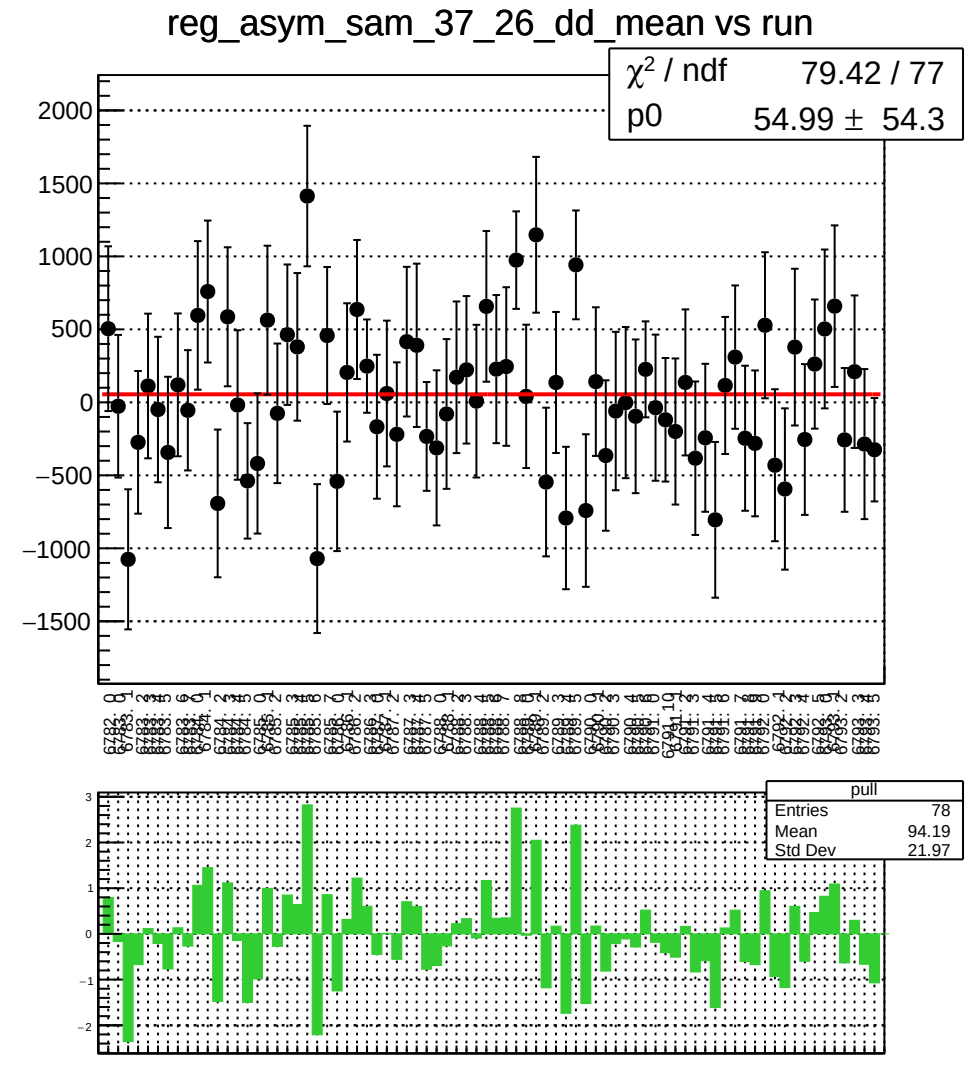

pull1D
Entries 78
Mean −7.72e−05
Std Dev 0.9543

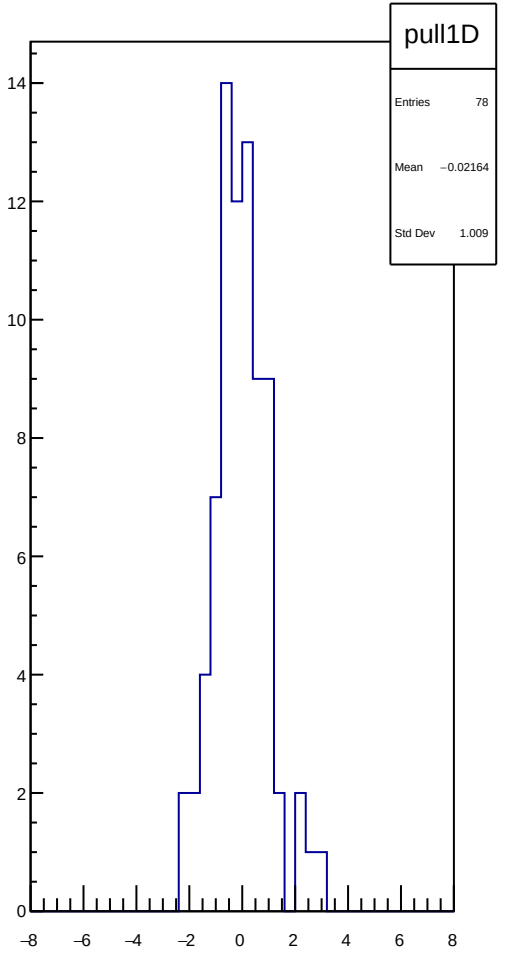

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 2304 / 77
p0 500.4 ± 0.4
540
520
500
480
460
440

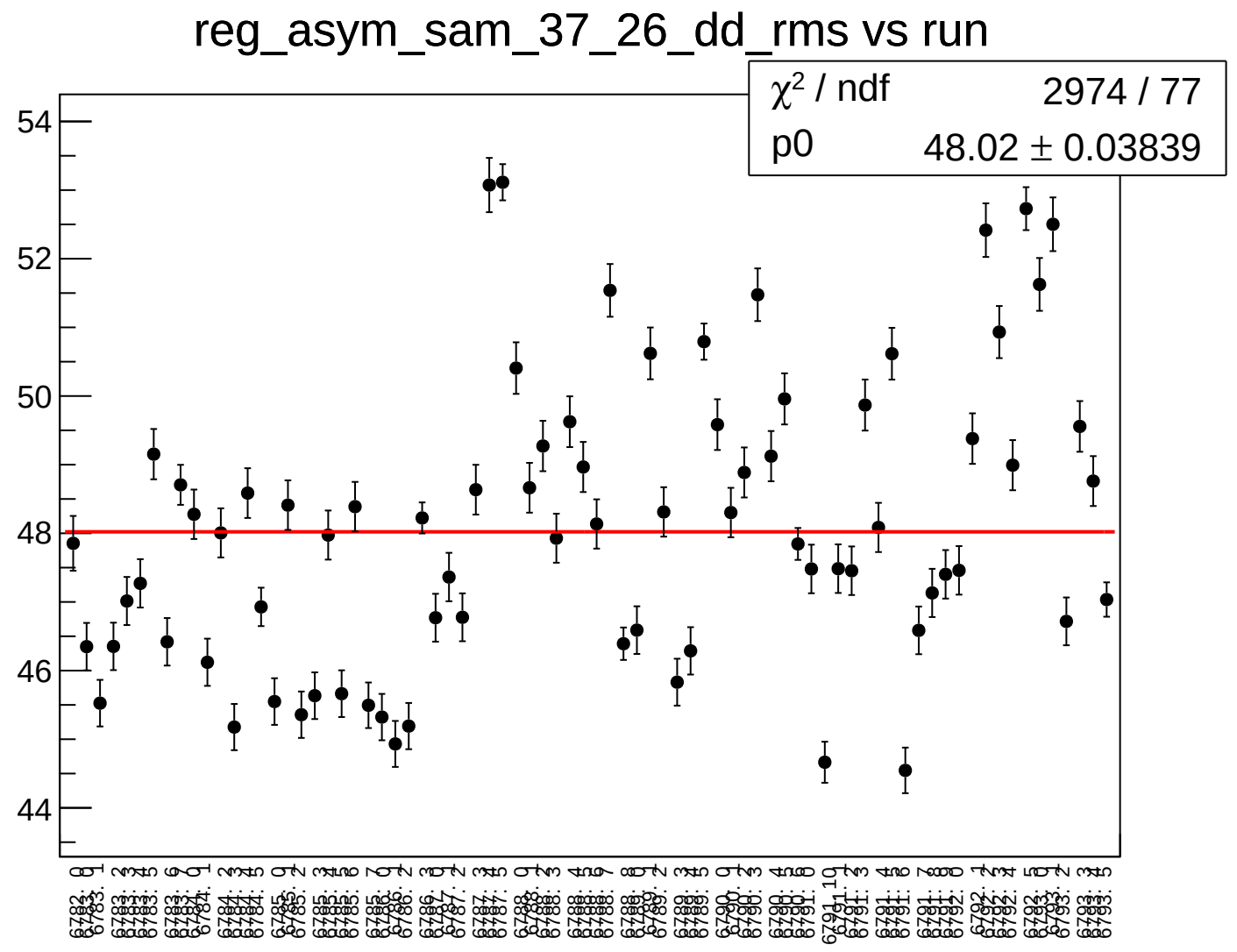

asym_sam_15_26_dd_mean vs run
χ² / ndf 72.65 / 77
p0 −993.6 ± 570.7
pull
Entries 78
Mean −287.9
Std Dev 295.8

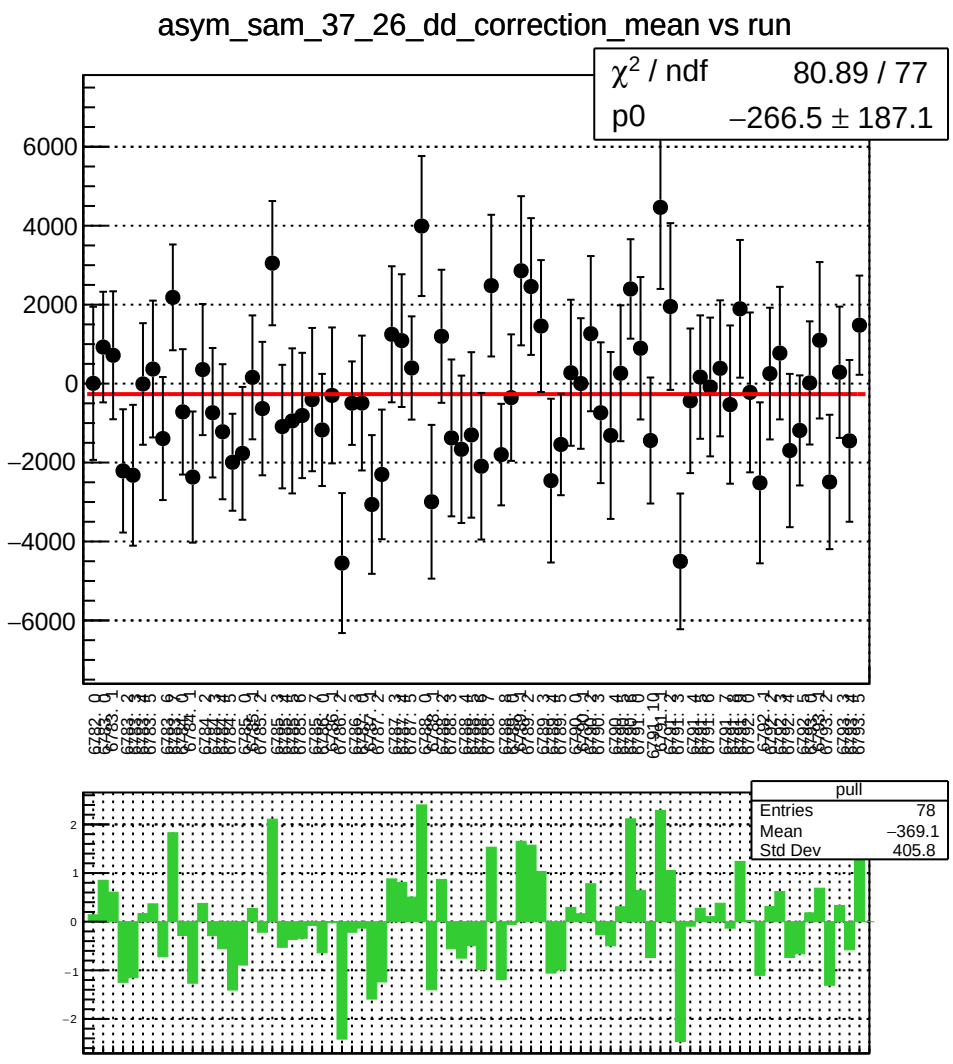

pull1D
Entries 78
Mean −0.002509
Std Dev 0.9651

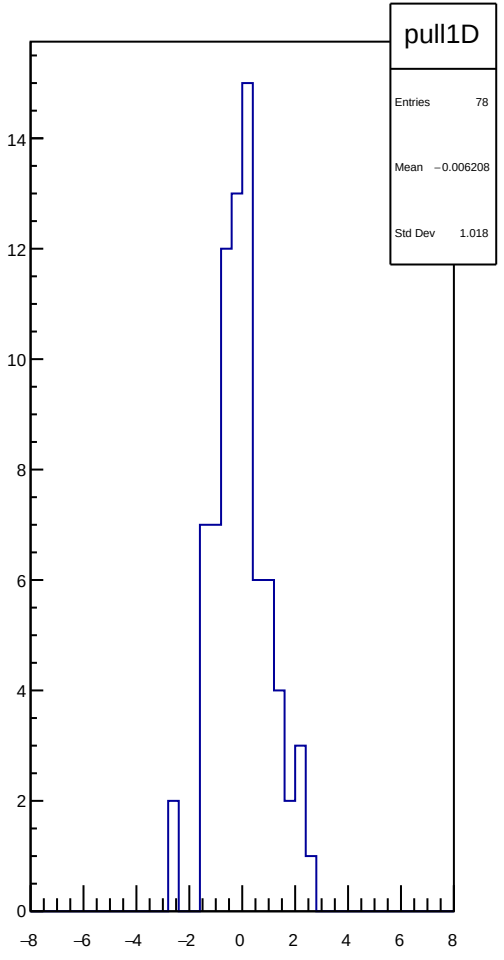

asym_sam_15_26_dd_rms vs run
χ² / ndf 2268 / 77
p0 504.9 ± 0.4036
540
520
500
480
460

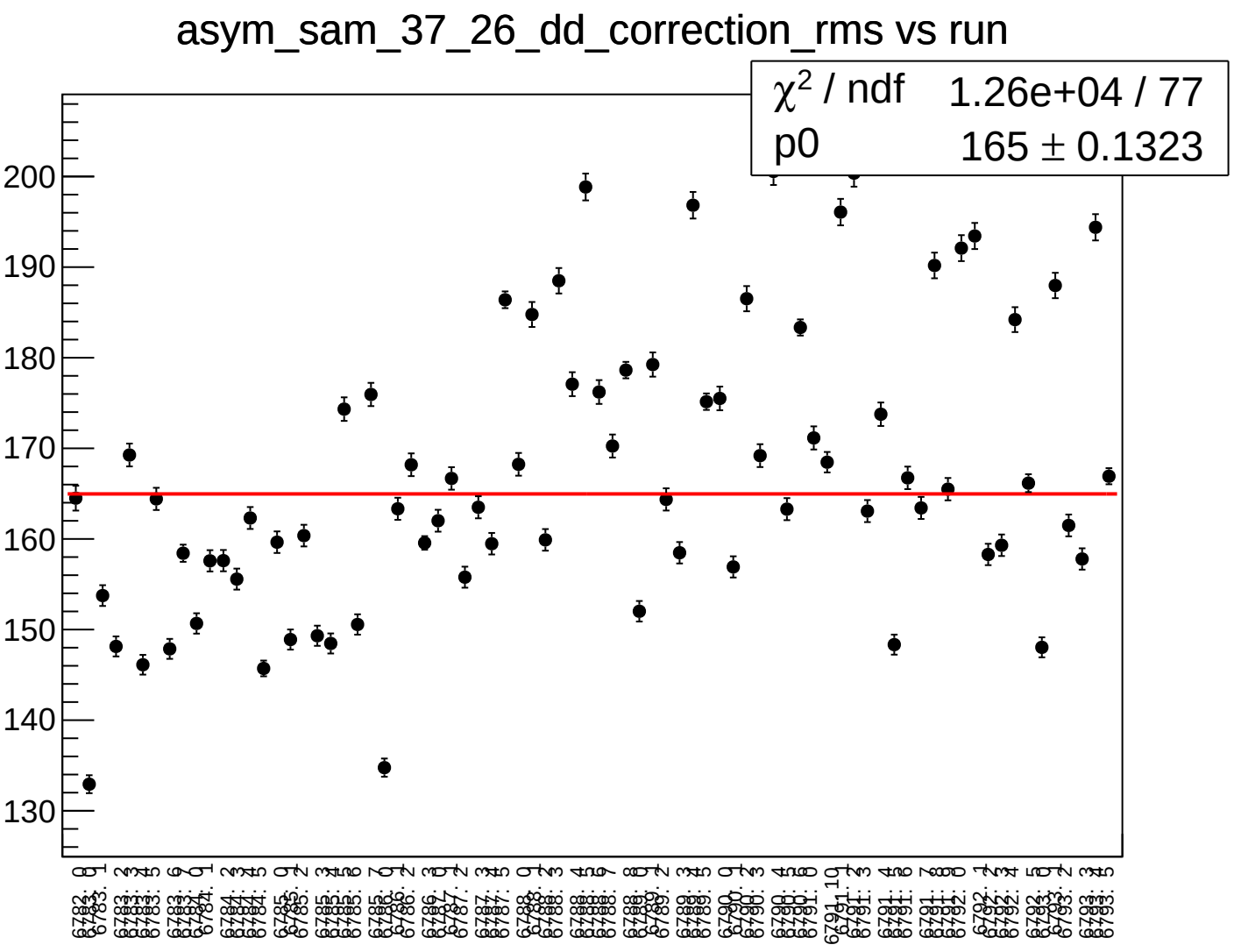

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 79.42 / 77
p0 54.99 ± 54.3
pull
Entries 78
Mean 94.19
Std Dev 21.97

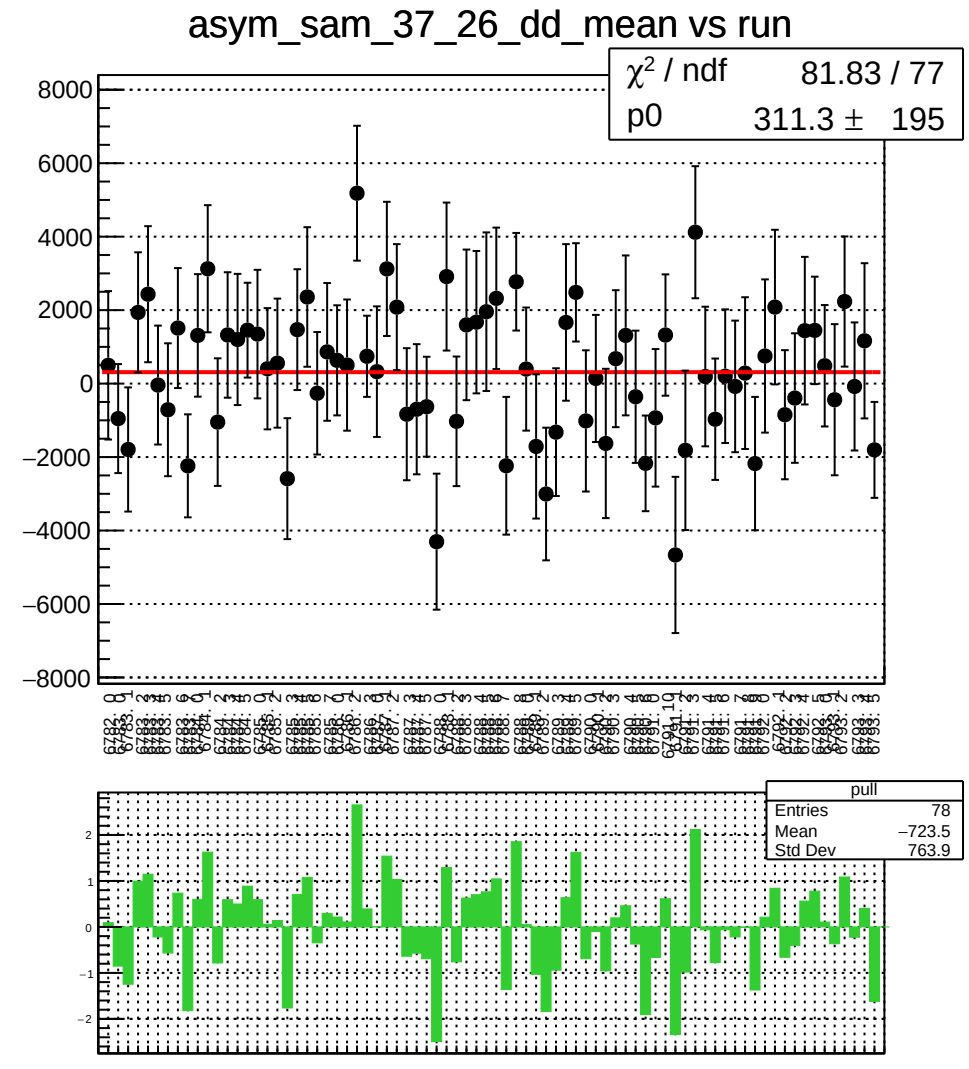

pull1D
Entries 78
Mean −0.02164
Std Dev 1.009

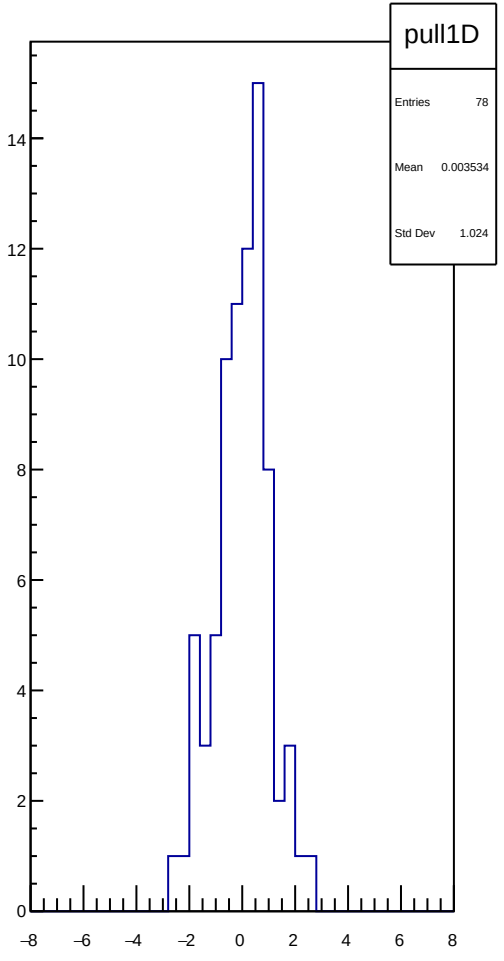

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 2974 / 77
p0 48.02 ± 0.03839
54
52
50
48
46
44

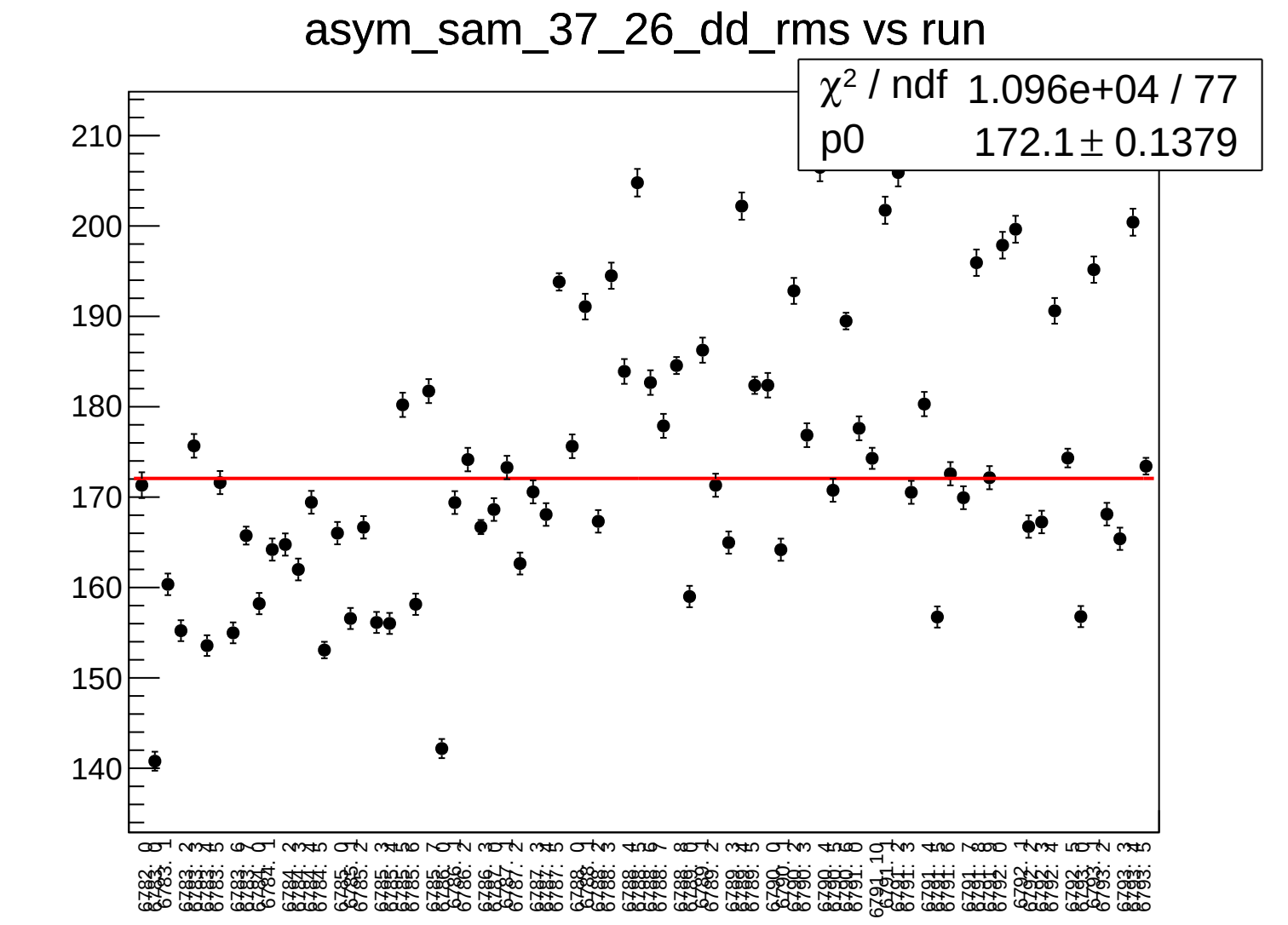

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 80.89 / 77
p0 −266.5 ± 187.1
pull
Entries 78
Mean −369.1
Std Dev 405.8

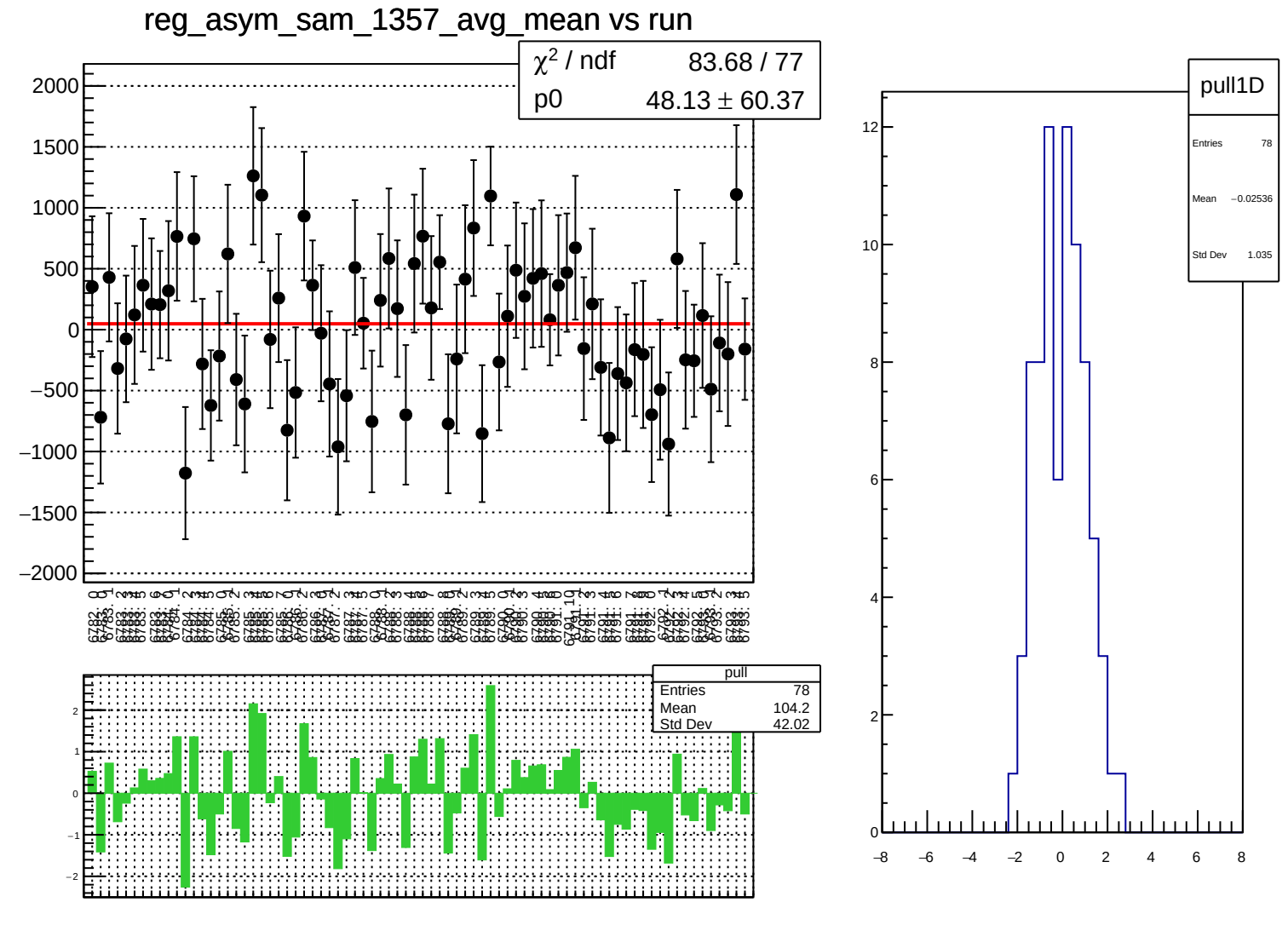

pull1D
Entries 78
Mean −0.006208
Std Dev 1.018

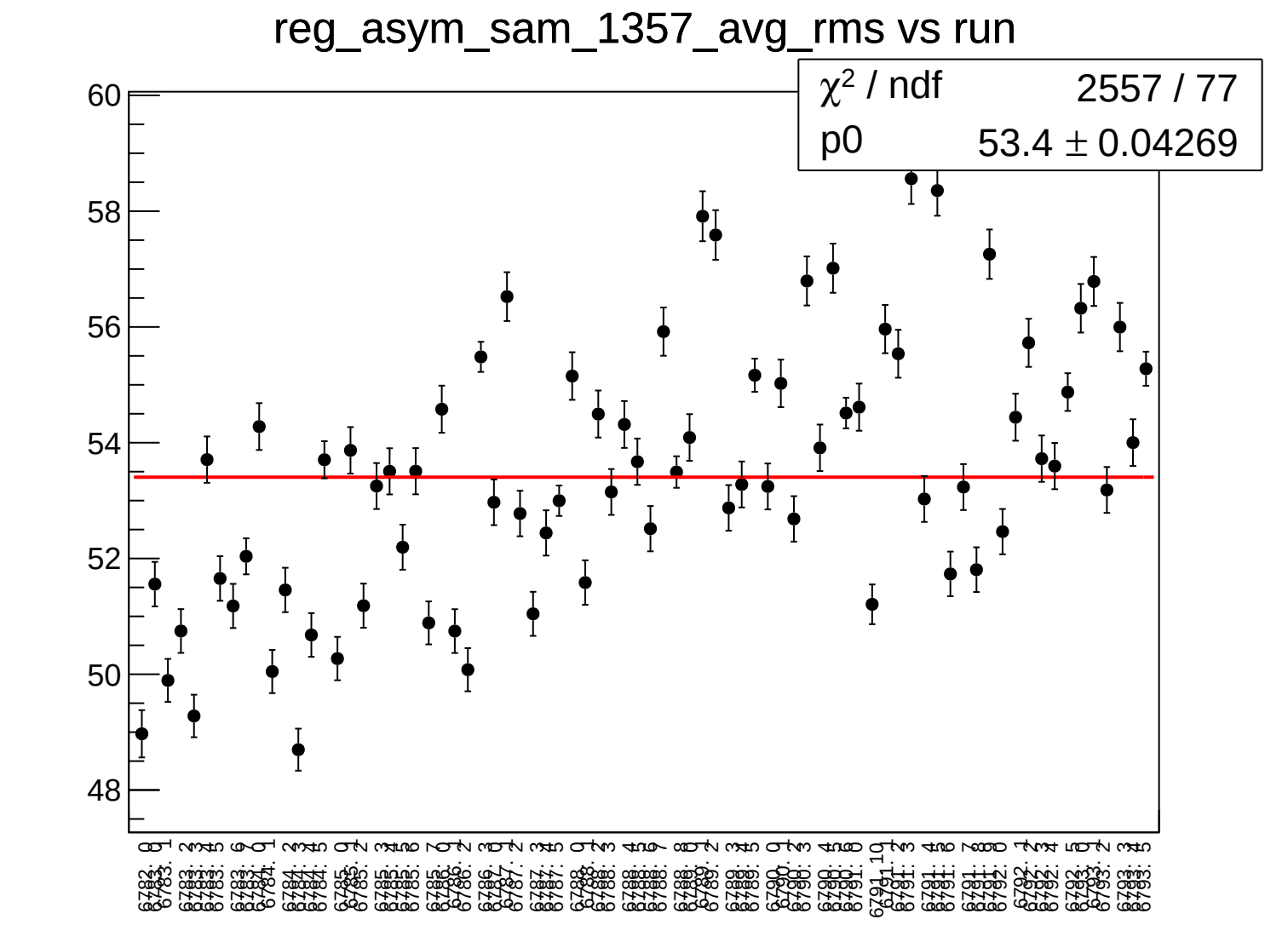

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 1.26e+04 / 77
p0 165 ± 0.1323
200
190
180
170
160
150
140
130

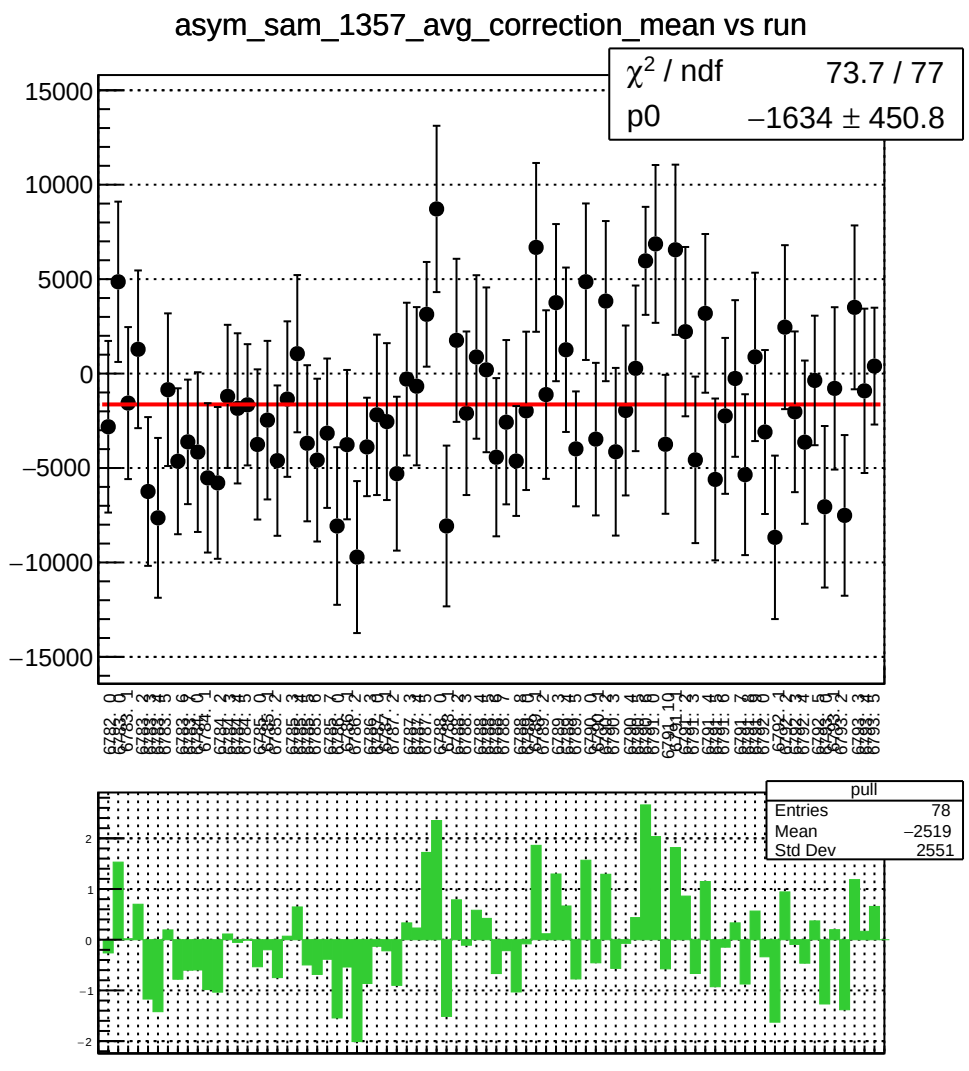

asym_sam_37_26_dd_mean vs run
χ² / ndf 81.83 / 77
p0 311.3 ± 195
pull
Entries 78
Mean −723.5
Std Dev 763.9

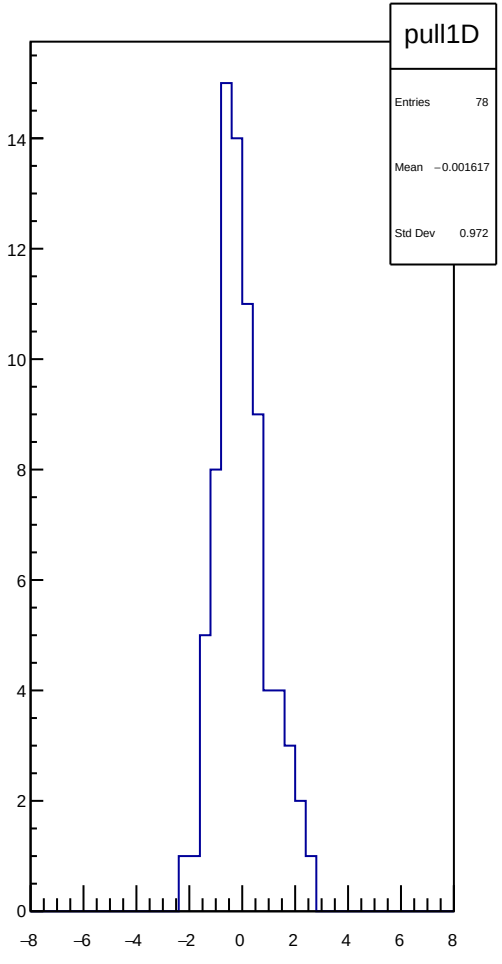

pull1D
Entries 78
Mean 0.003534
Std Dev 1.024

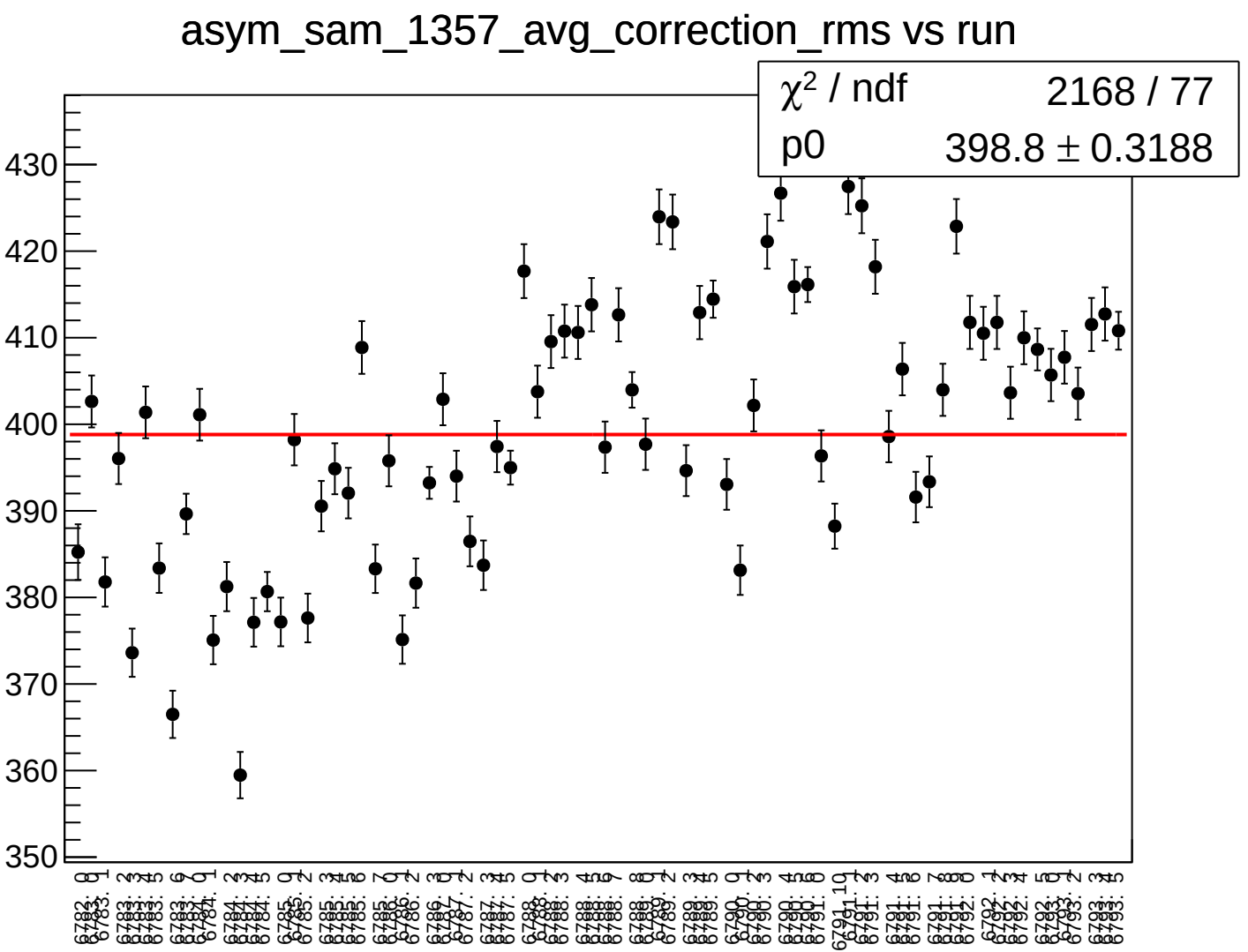

asym_sam_37_26_dd_rms vs run
χ² / ndf 1.096e+04 / 77
p0 172.1 ± 0.1379
210
200
190
180
170
160
150
140

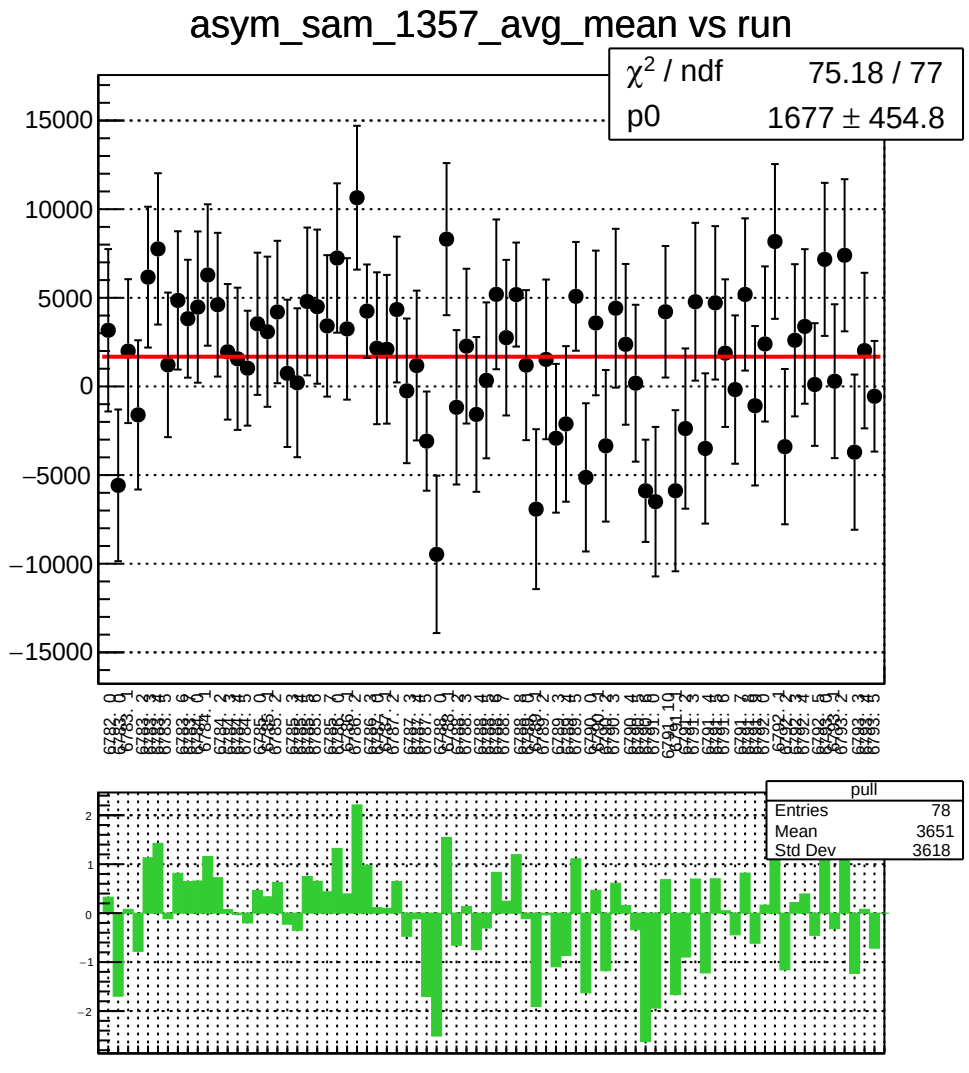

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 83.68 / 77
p0 48.13 ± 60.37
pull
Entries 78
Mean 104.2
Std Dev 42.02
pull1D
Entries 78
Mean −0.02536
Std Dev 1.035

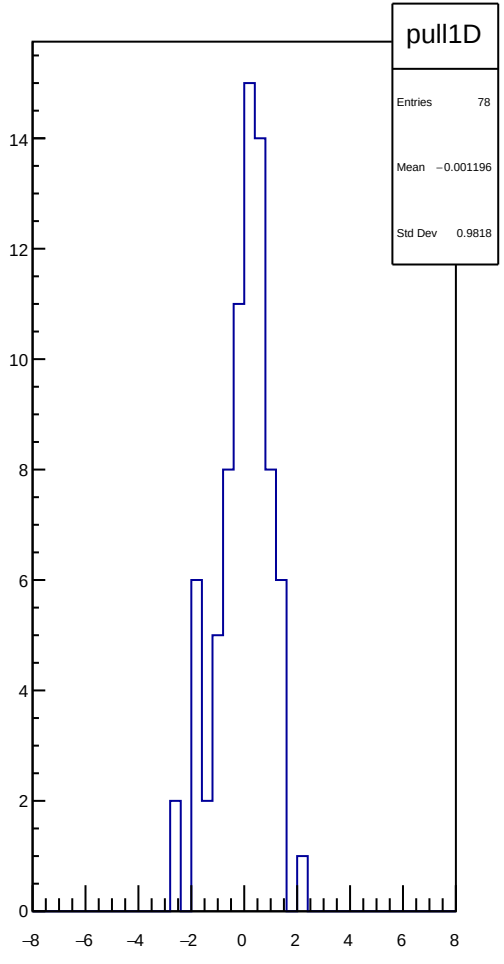

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 2557 / 77
p0 53.4 ± 0.04269
60
58
56
54
52
50
48

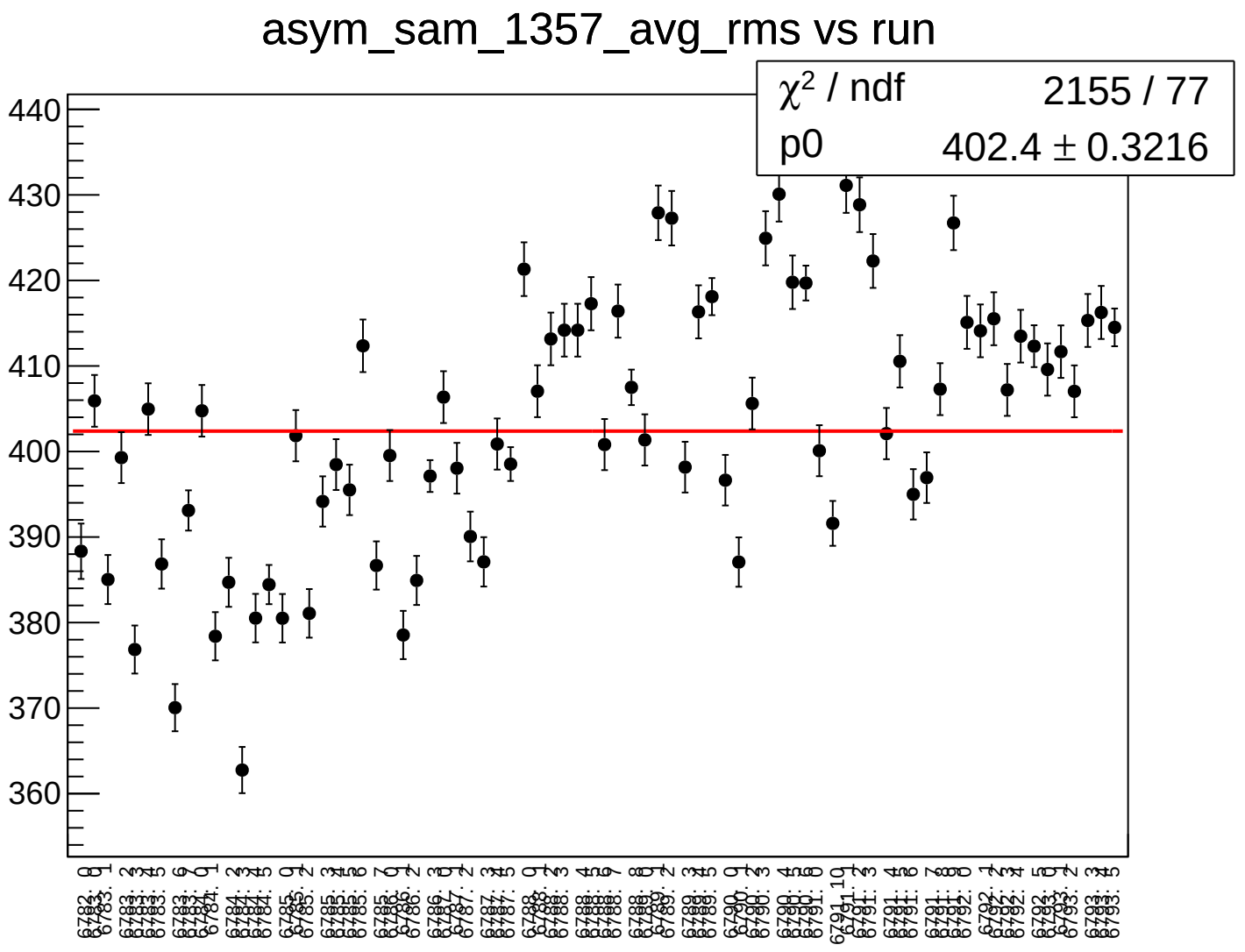

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 73.7 / 77
p0 −1634 ± 450.8
pull
Entries 78
Mean −2519
Std Dev 2551

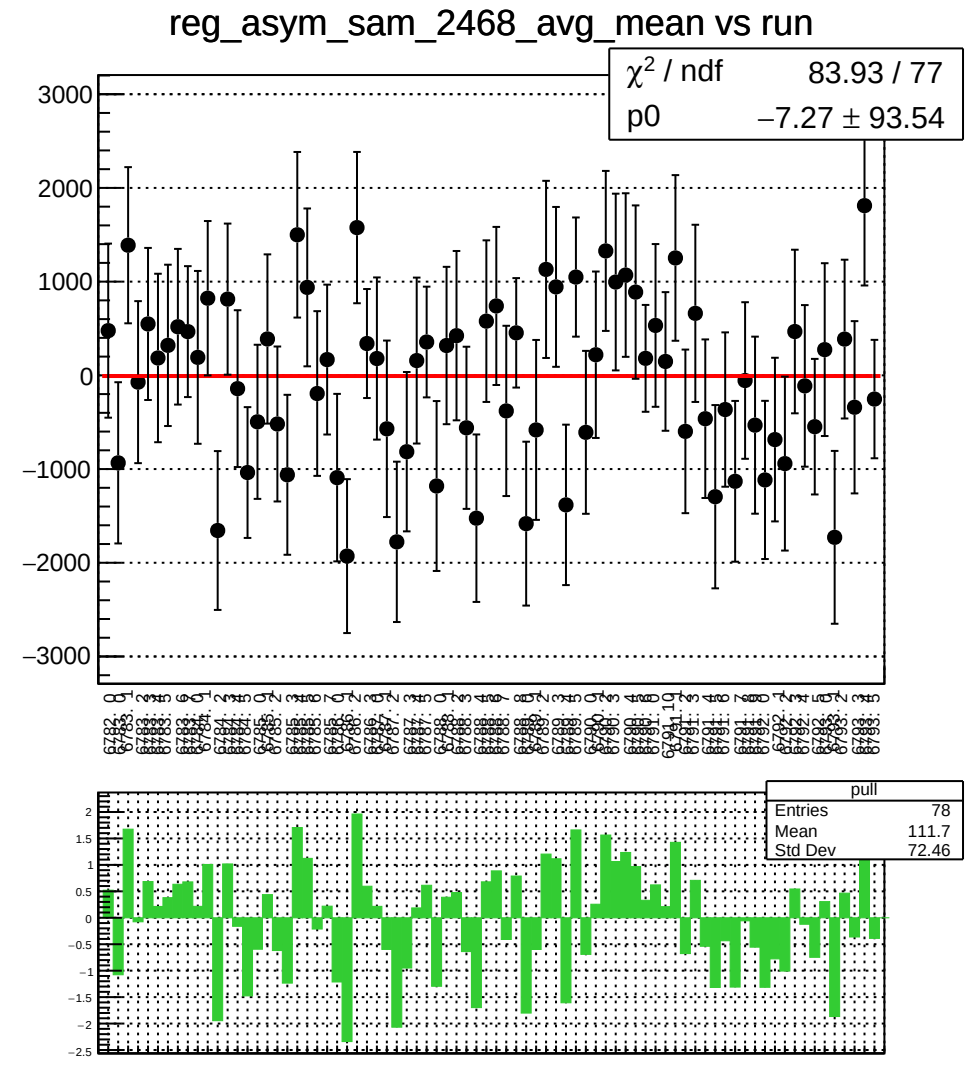

pull1D
Entries 78
Mean −0.001617
Std Dev 0.972

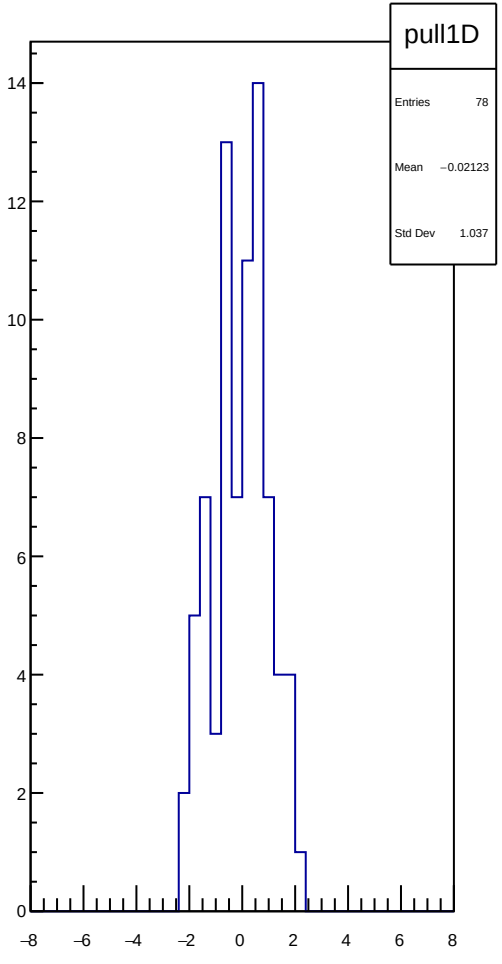

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 2168 / 77
p0 398.8 ± 0.3188
430
420
410
400
390
380
370
360
350


asym_sam_1357_avg_mean vs run
χ² / ndf 75.18 / 77
p0 1677 ± 454.8
pull
Entries 78
Mean 3651
Std Dev 3618

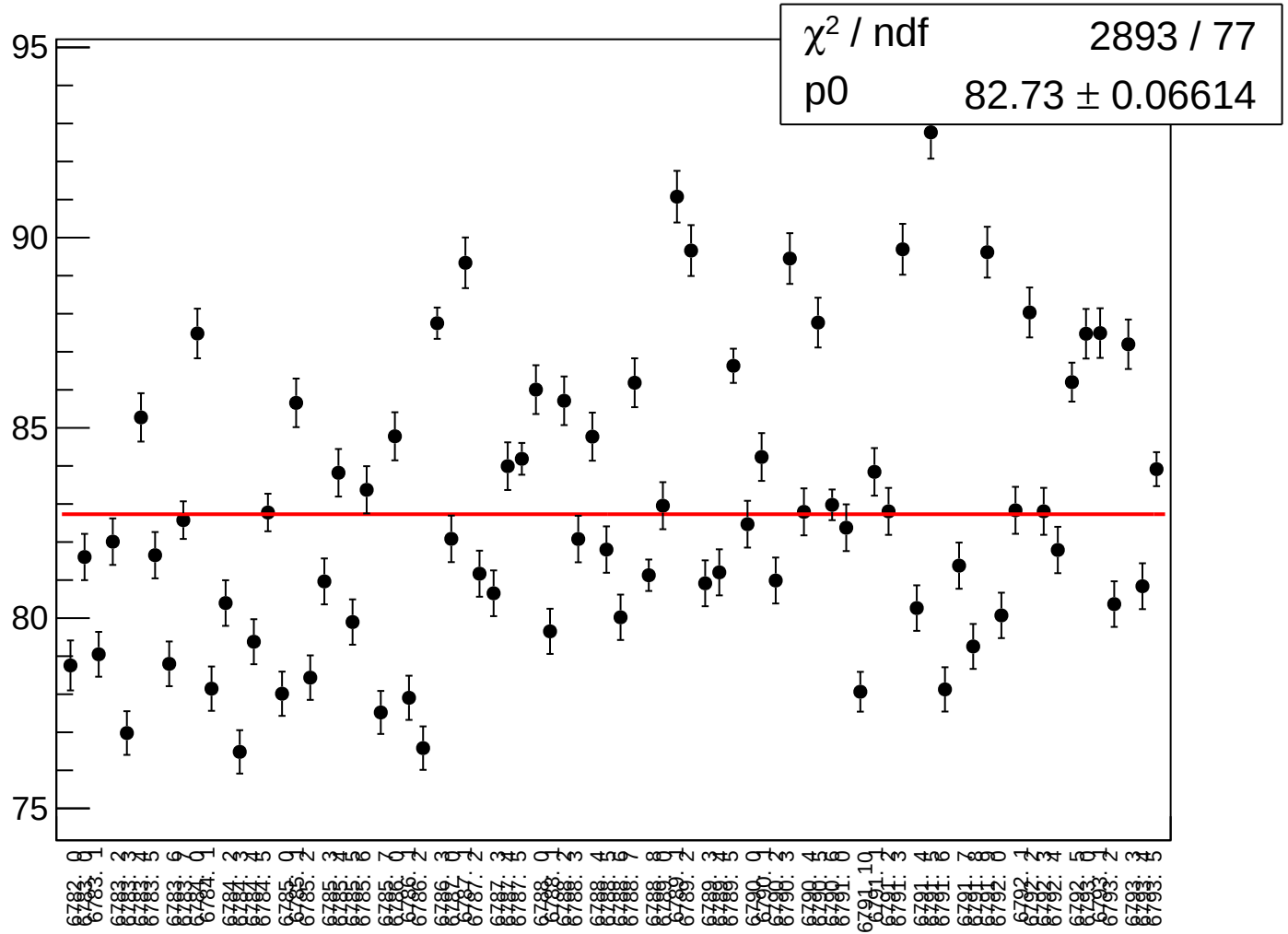

pull1D
Entries 78
Mean −0.001196
Std Dev 0.9818

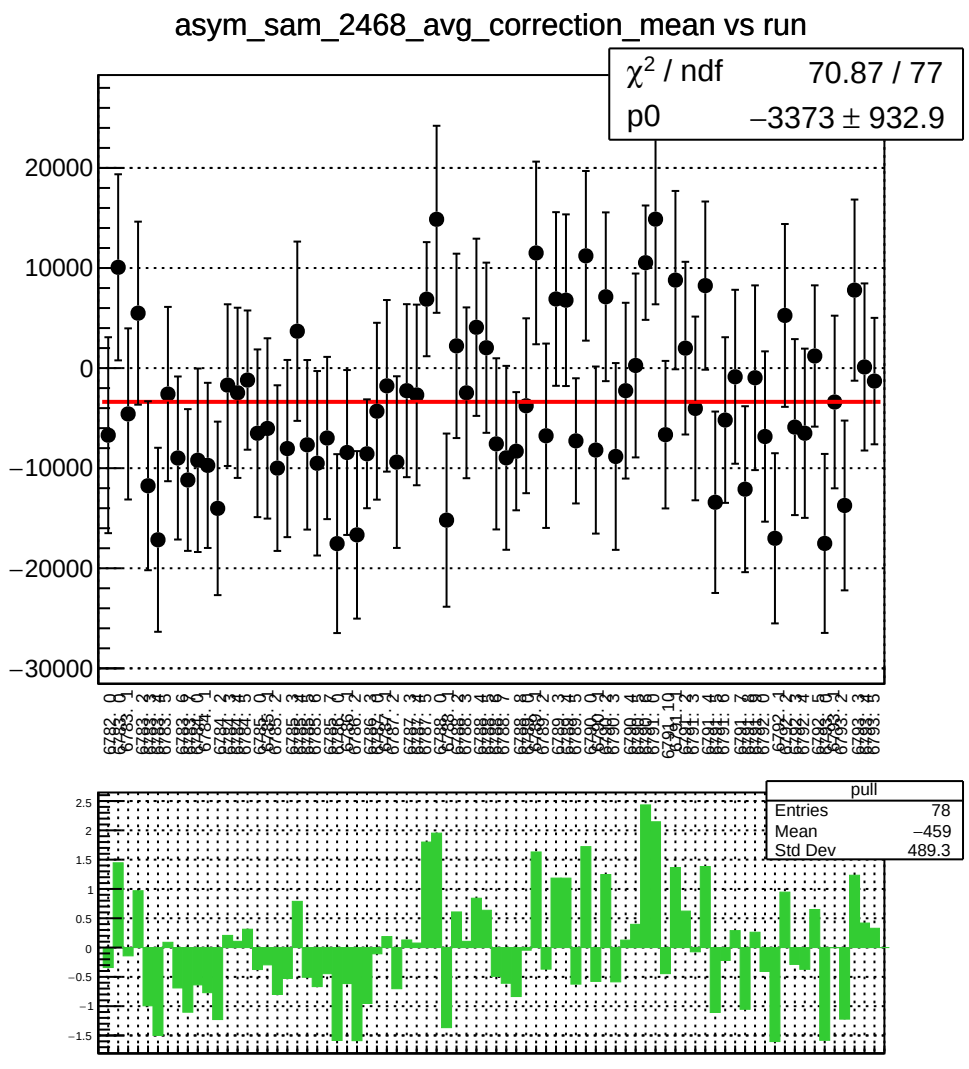

asym_sam_1357_avg_rms vs run
χ^2 / ndf 2155 / 77
p0 402.4 ± 0.3216
440
430
420
410
400
390
380
370
360

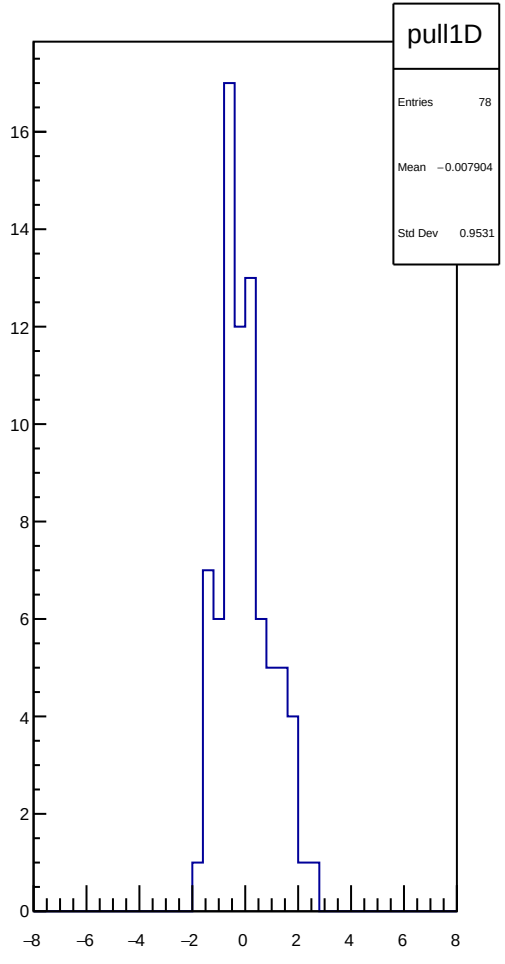

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 83.93 / 77
p0 −7.27 ± 93.54
pull
Entries 78
Mean 111.7
Std Dev 72.46

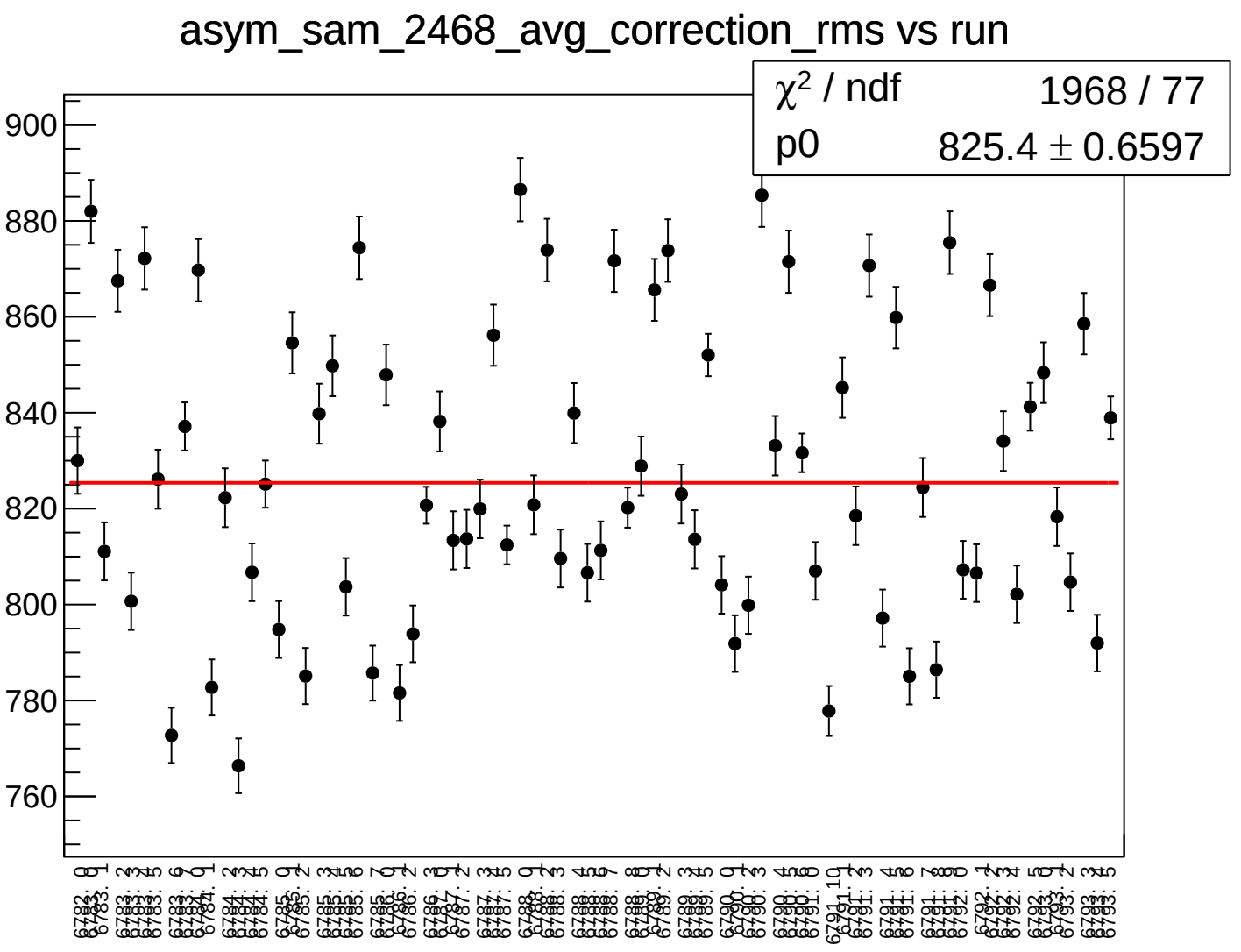

pull1D
Entries 78
Mean −0.02123
Std Dev 1.037

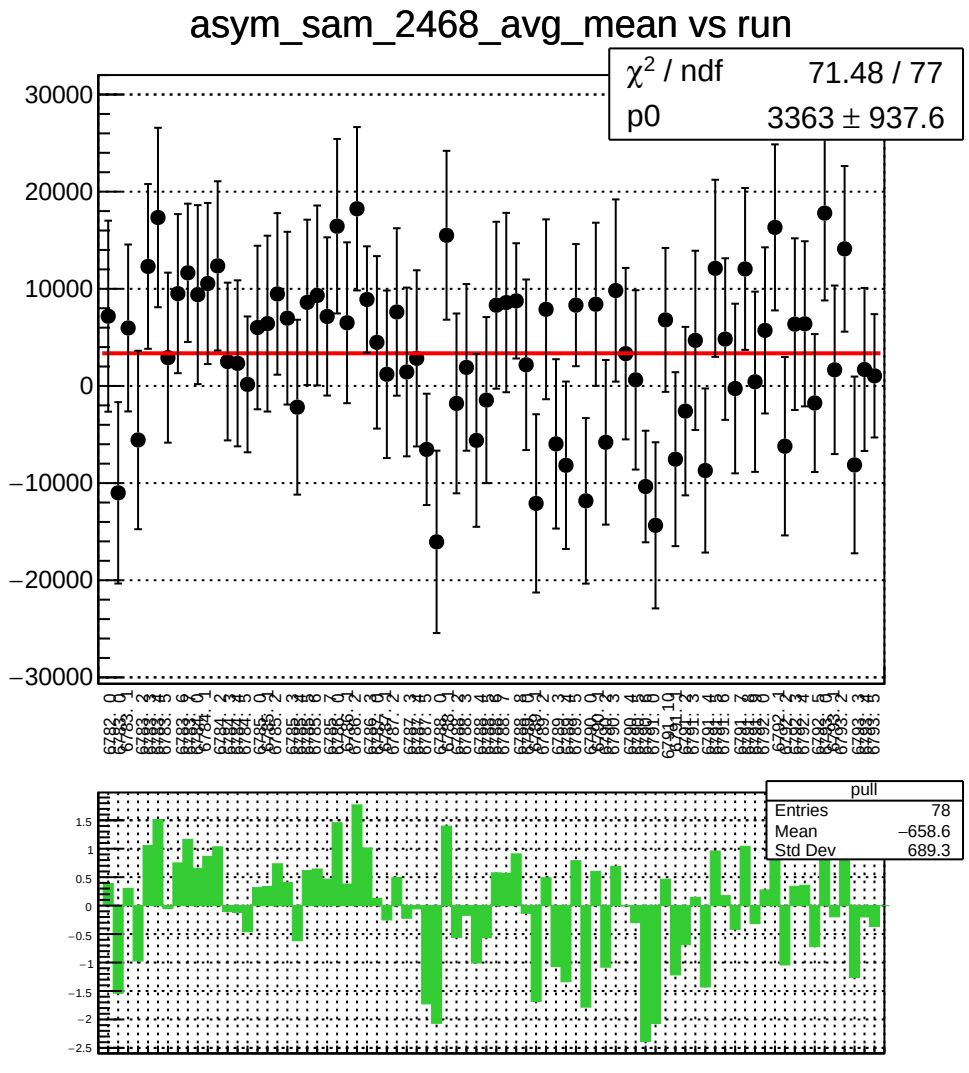
reg_asym_sam_2468_avg_rms vs run

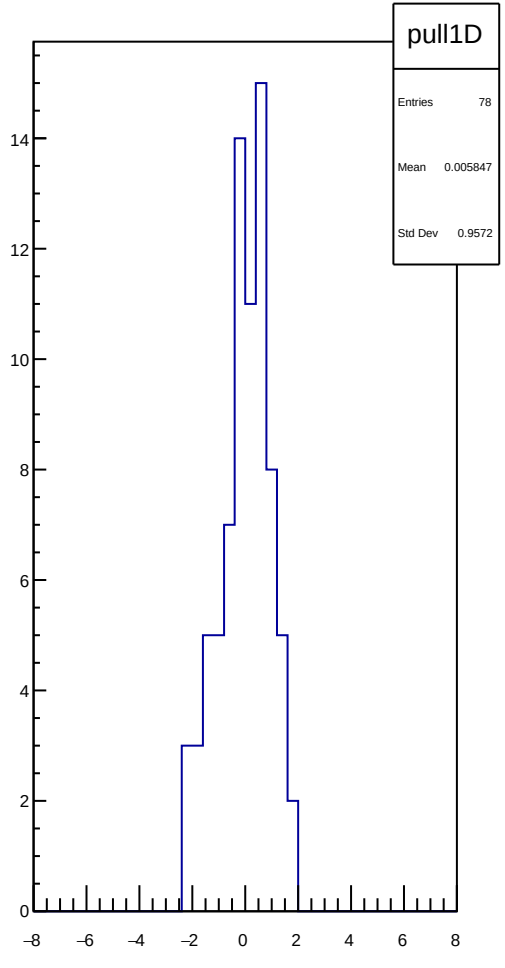


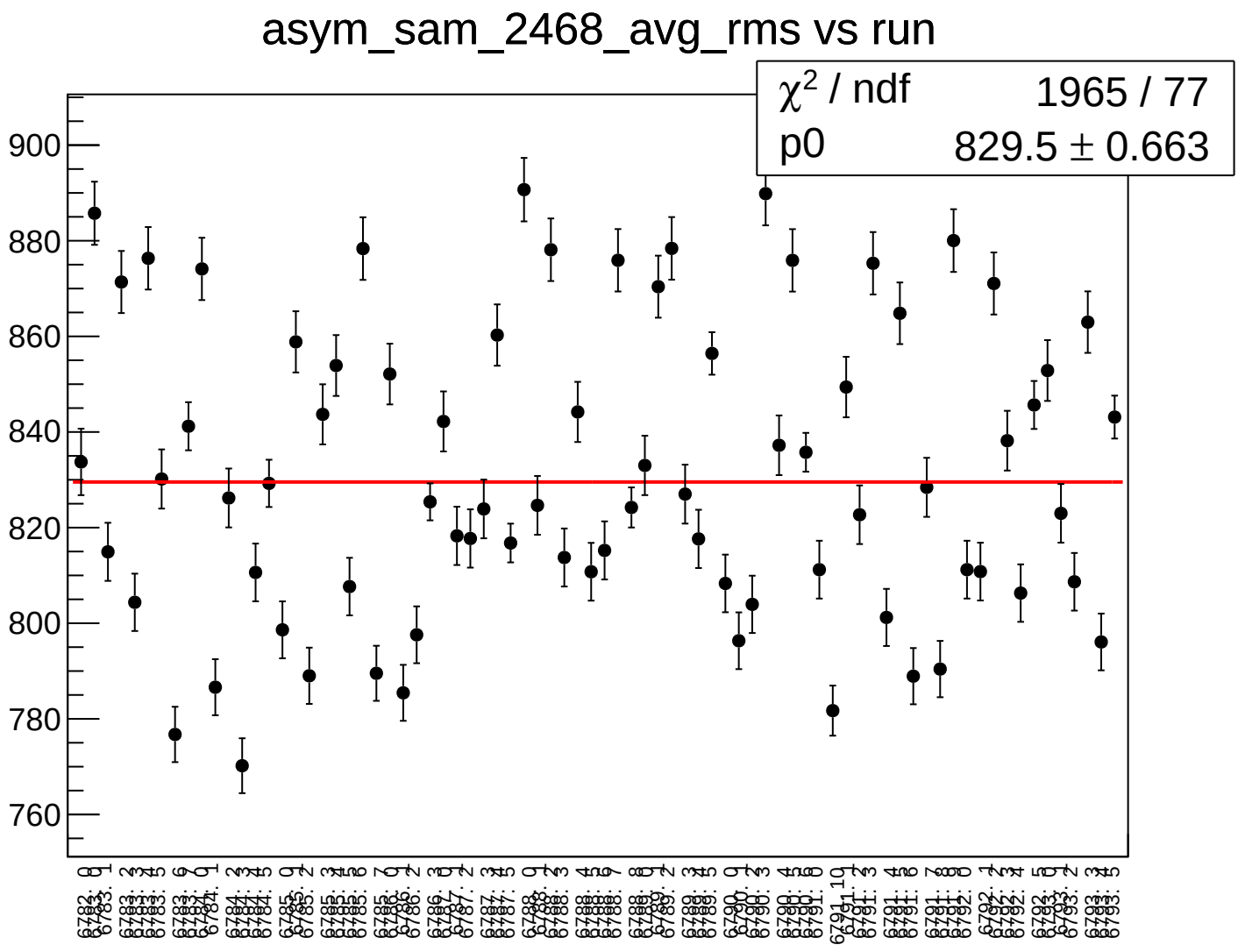

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 70.87 / 77
p0 −3373 ± 932.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean −459
Std Dev 489.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

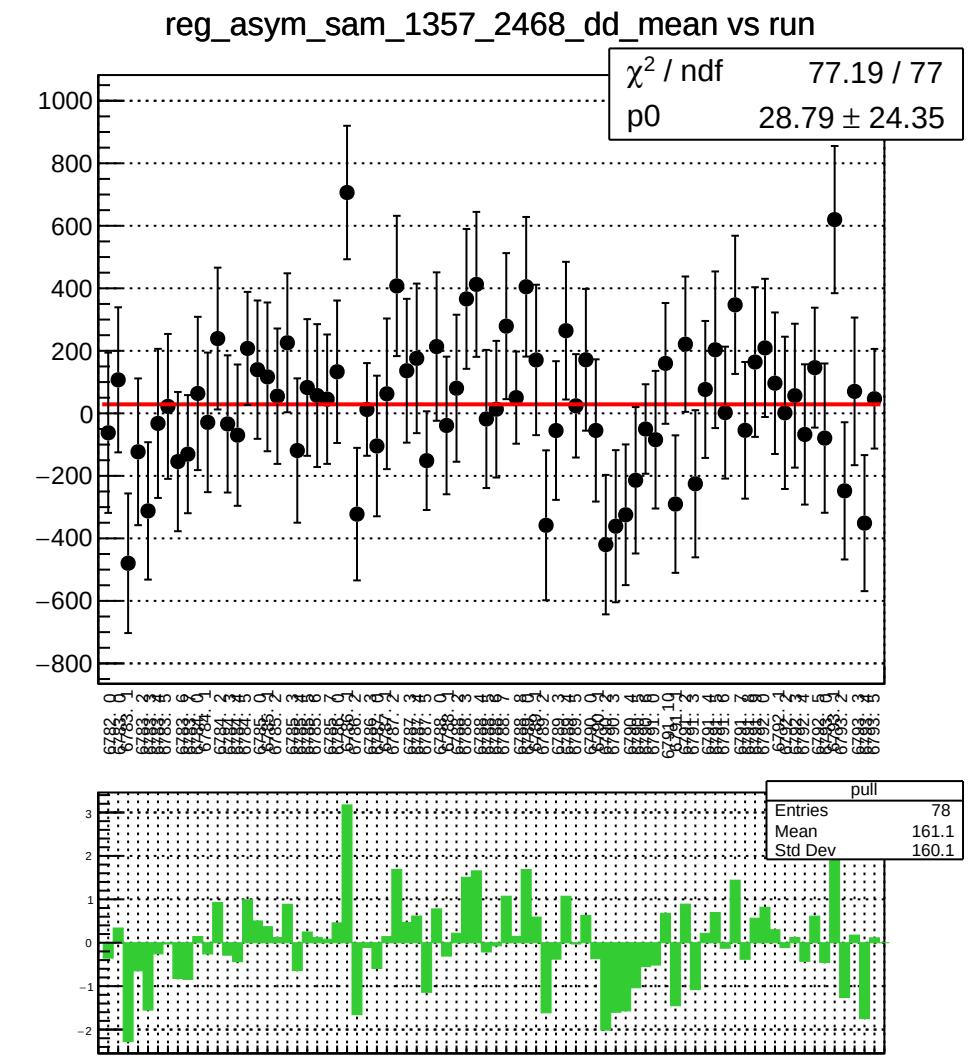

pull1D
Entries 78
Mean −0.007904
Std Dev 0.9531
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

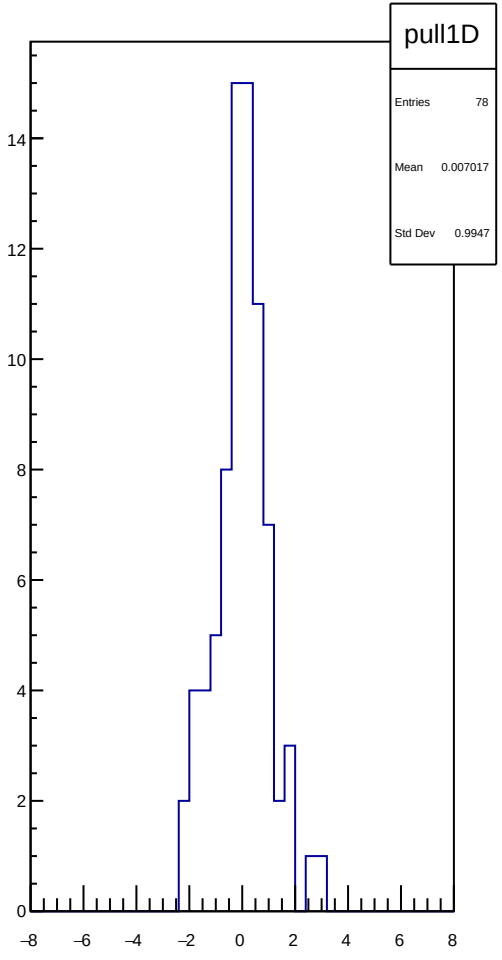

asym_sam_2468_avg_correction_rms vs run
χ^2 / ndf 1968 / 77
p0 825.4 ± 0.6597
900
880
860
840
820
800
780
760

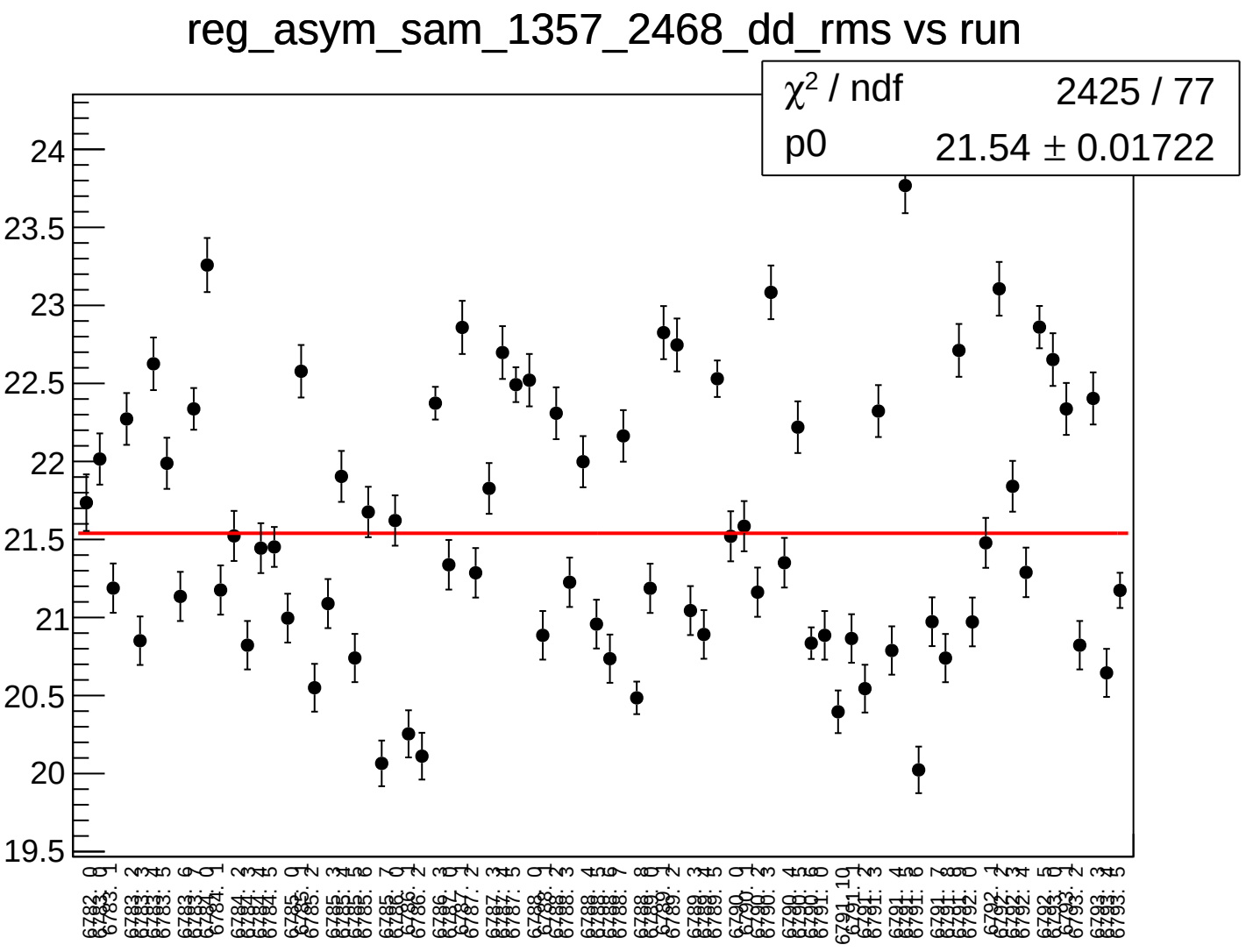

asym_sam_2468_avg_mean vs run
χ² / ndf 71.48 / 77
p0 3363 ± 937.6
pull
Entries 78
Mean −658.6
Std Dev 689.3

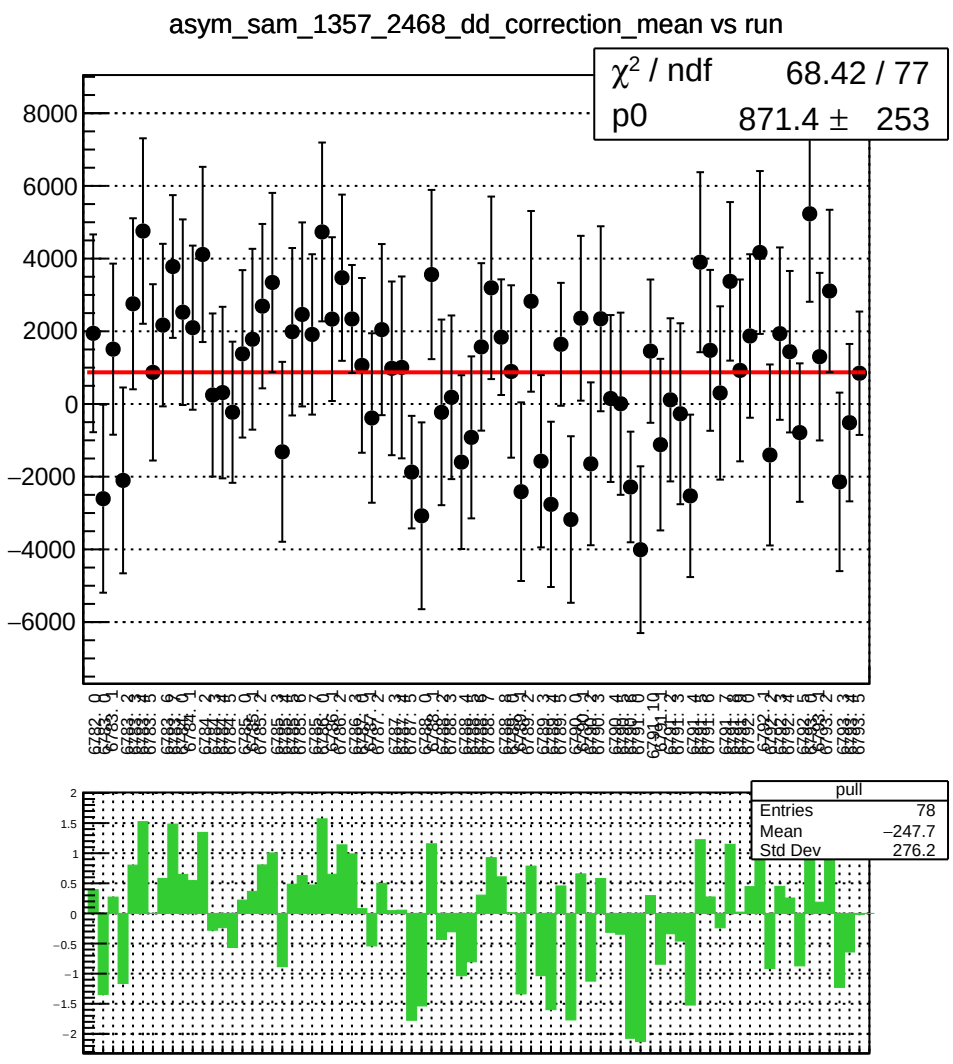

pull1D
Entries 78
Mean 0.005847
Std Dev 0.9572

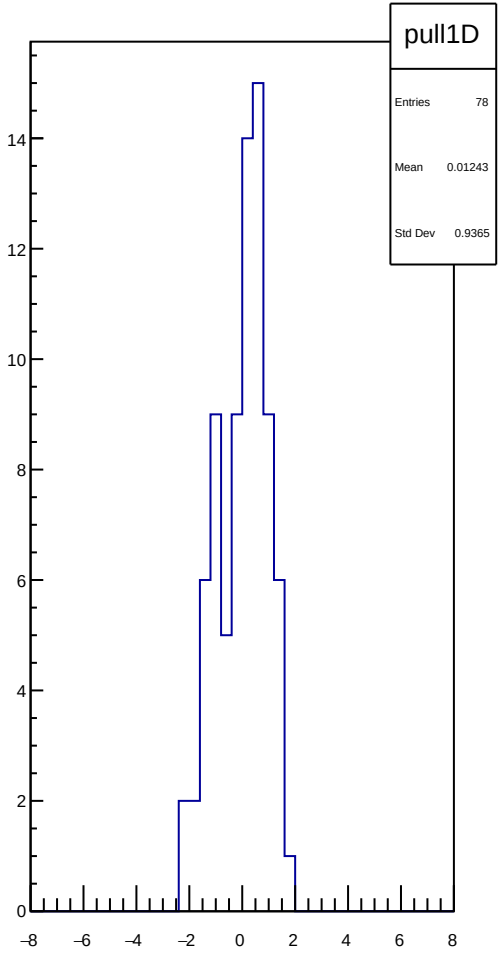

asym_sam_2468_avg_rms vs run
χ^2 / ndf 1965 / 77
p0 829.5 ± 0.663
900
880
860
840
820
800
780
760

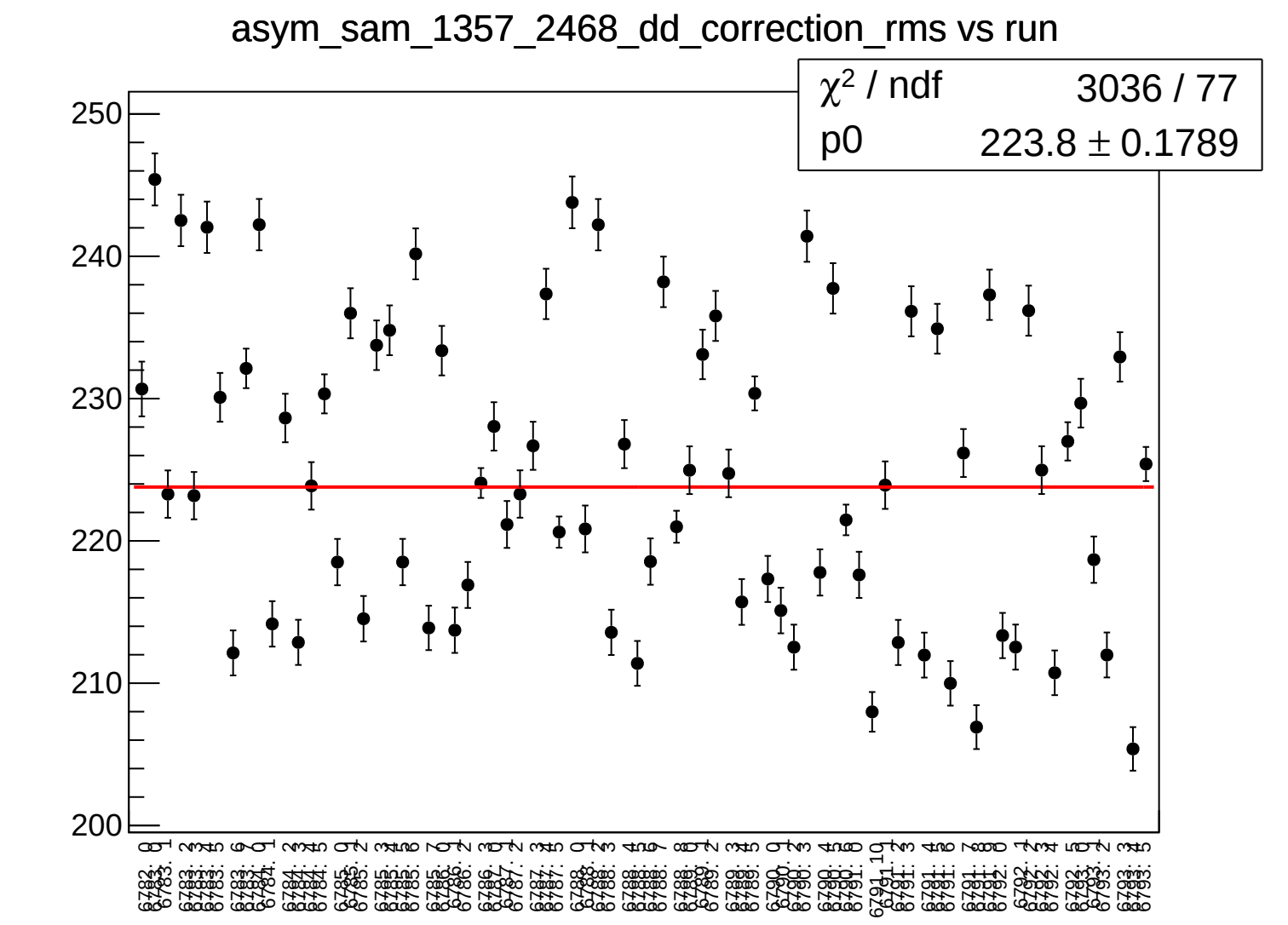

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 77.19 / 77
p0 28.79 ± 24.35
pull
Entries 78
Mean 161.1
Std Dev 160.1

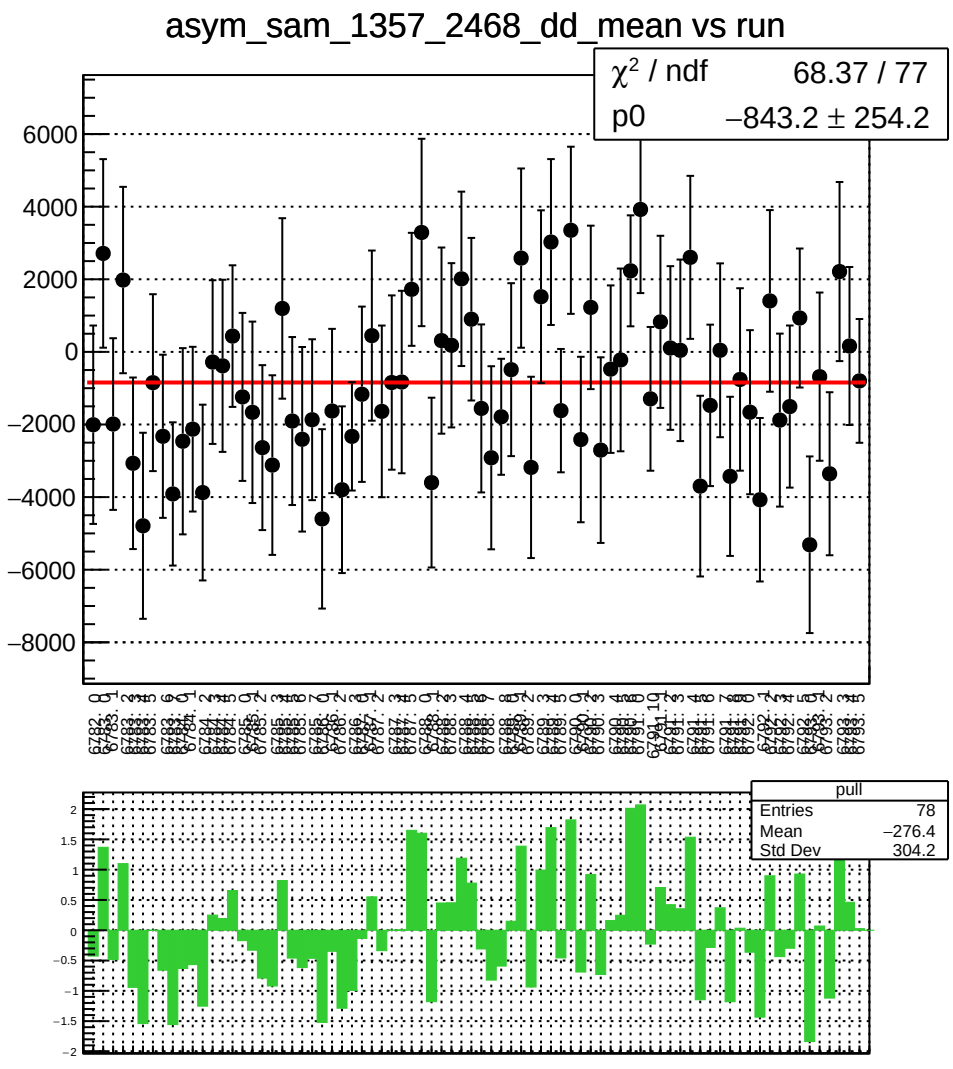

pull1D
Entries 78
Mean 0.007017
Std Dev 0.9947

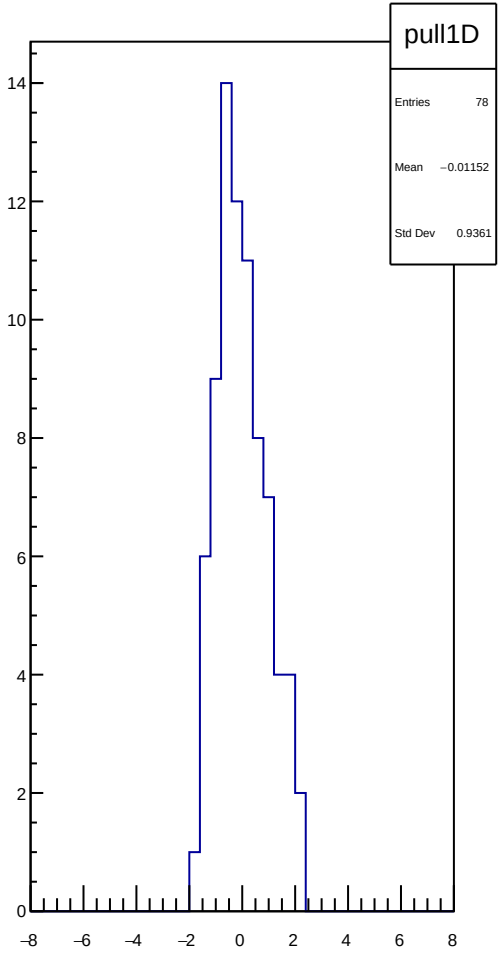

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2425 / 77
p0 21.54 ± 0.01722
24
23.5
23
22.5
22
21.5
21
20.5
20
19.5

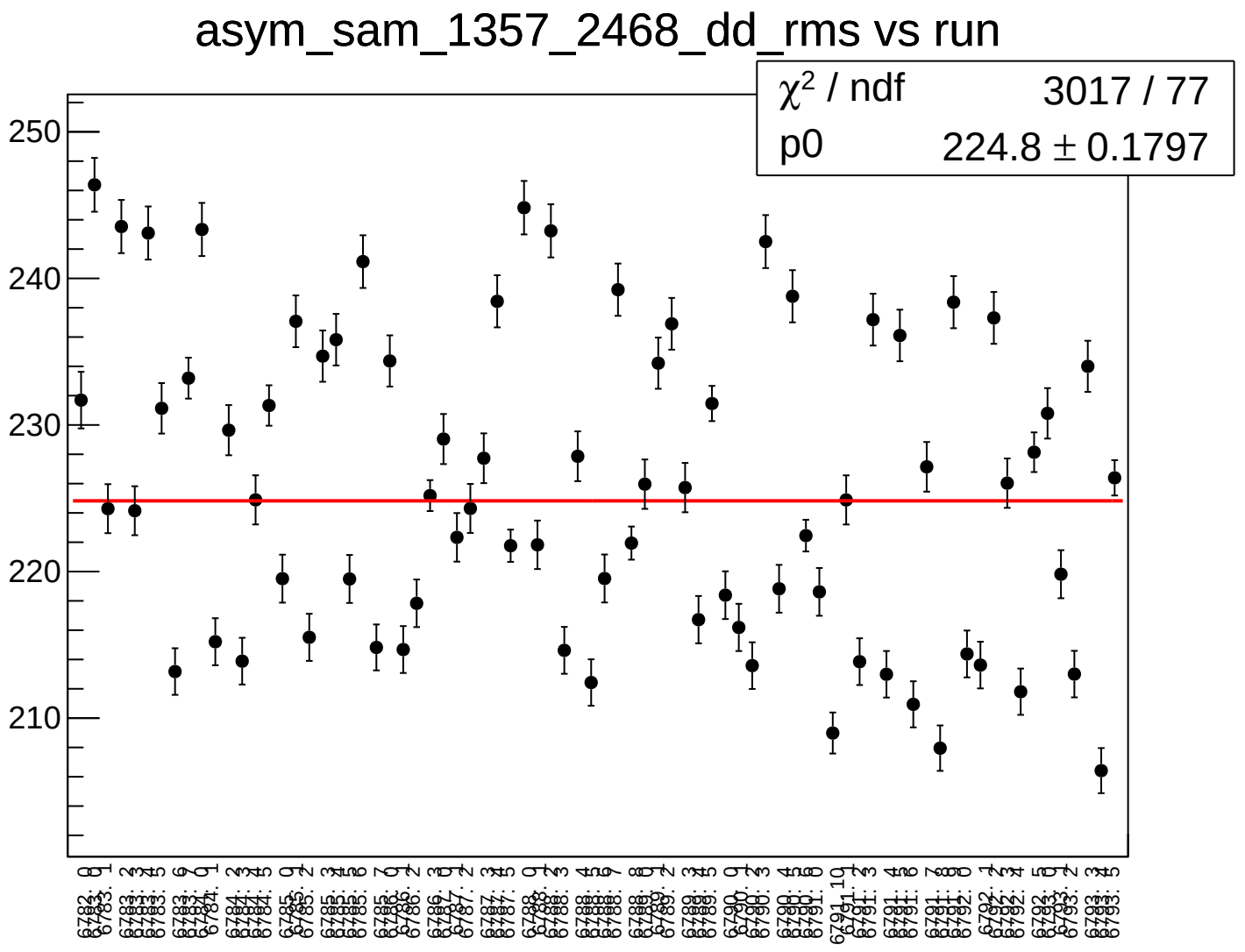

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 68.42 / 77
p0 871.4 ± 253
pull
Entries 78
Mean −247.7
Std Dev 276.2

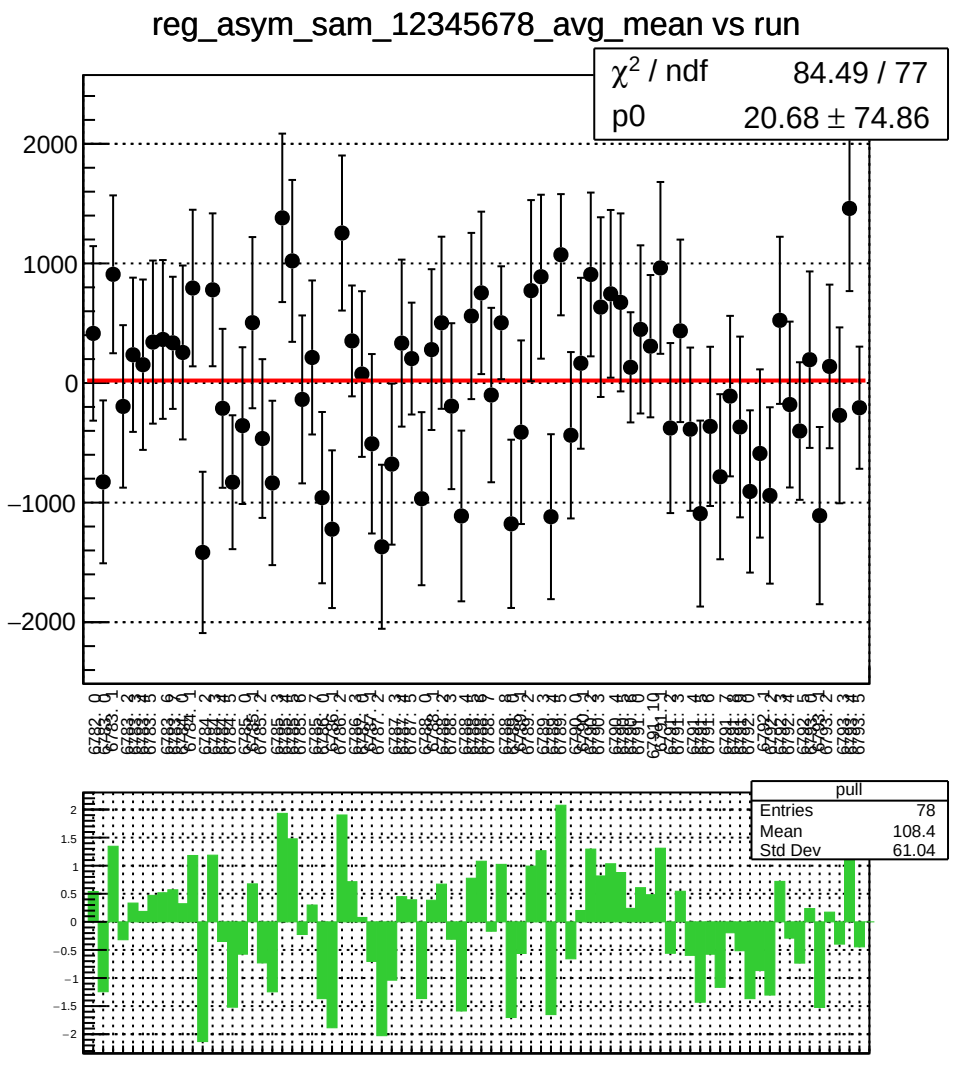

pull1D
Entries 78
Mean 0.01243
Std Dev 0.9365

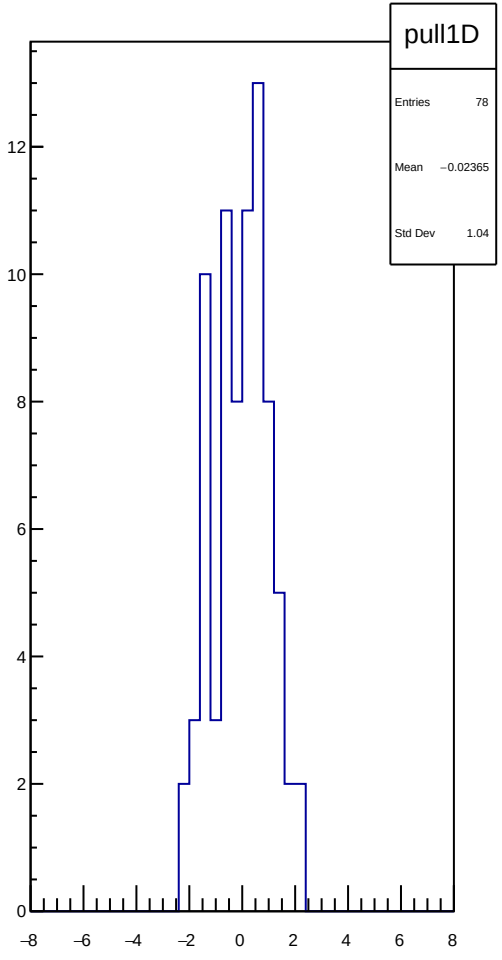

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 3036 / 77
p0 223.8 ± 0.1789
250
240
230
220
210
200

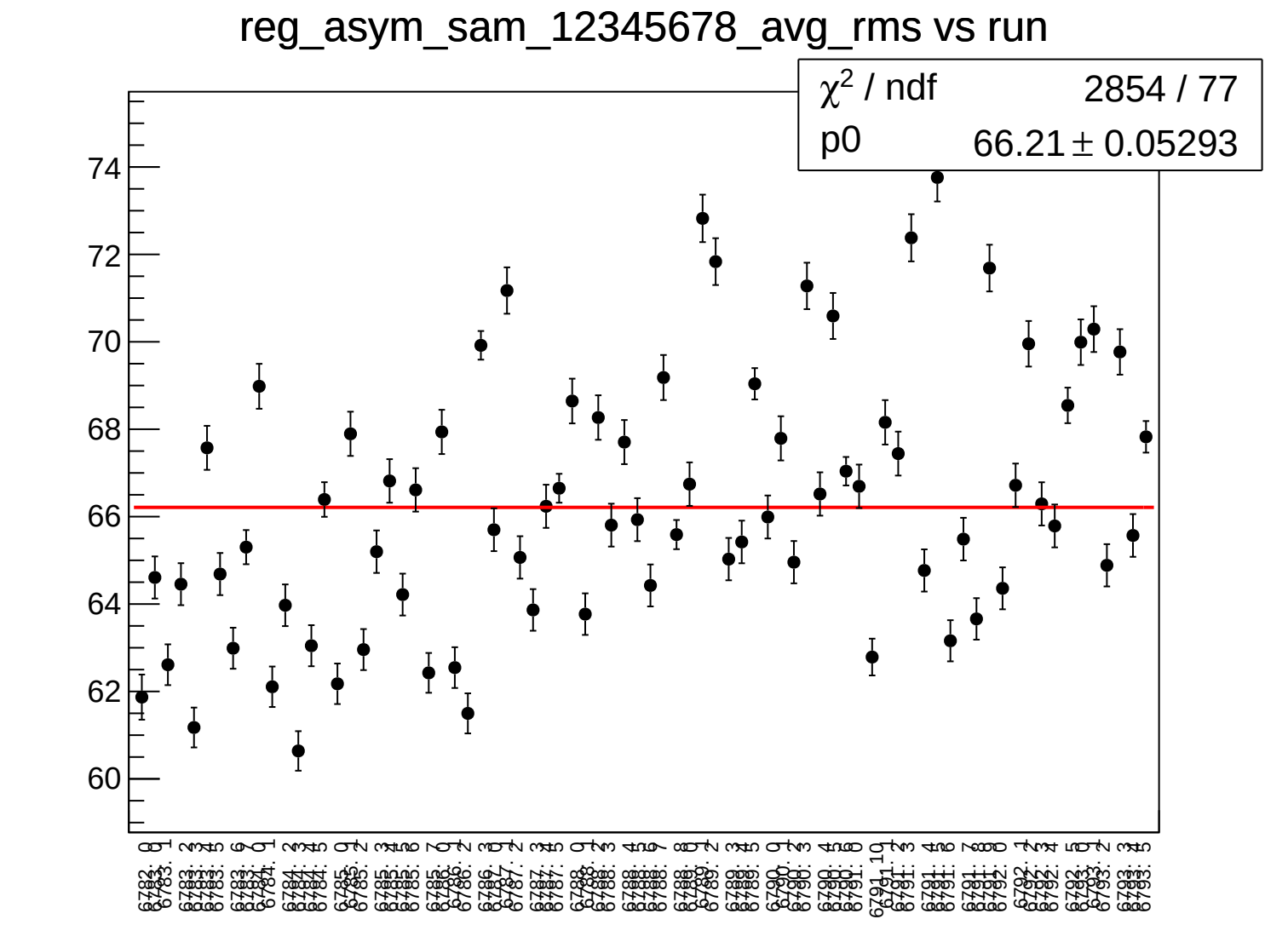

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 68.37 / 77
p0 −843.2 ± 254.2
pull
Entries 78
Mean −276.4
Std Dev 304.2

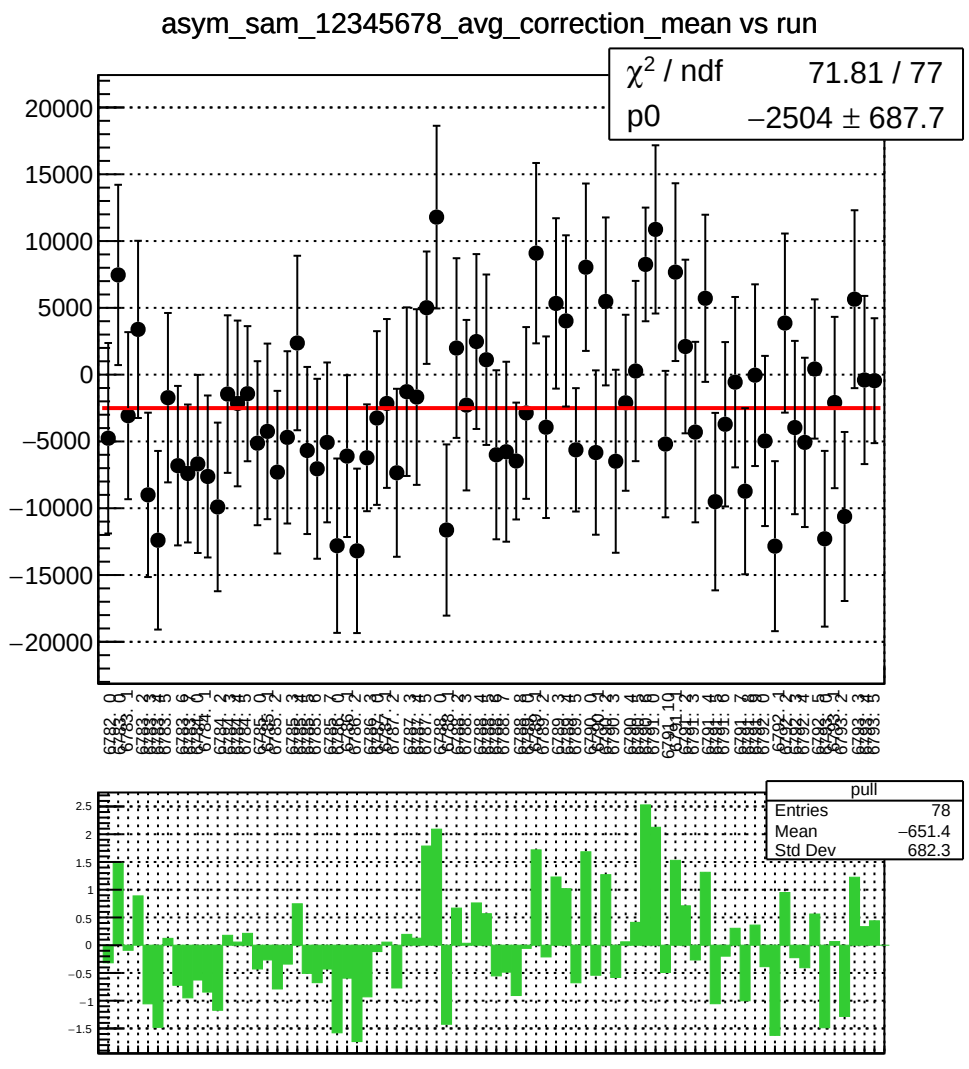

pull1D
Entries 78
Mean −0.01152
Std Dev 0.9361

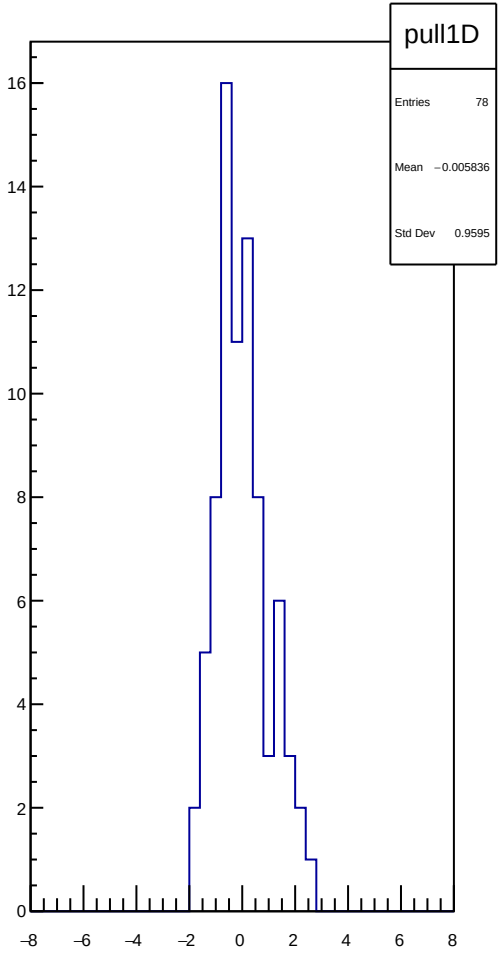

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3017 / 77
p0 224.8 ± 0.1797
250
240
230
220
210

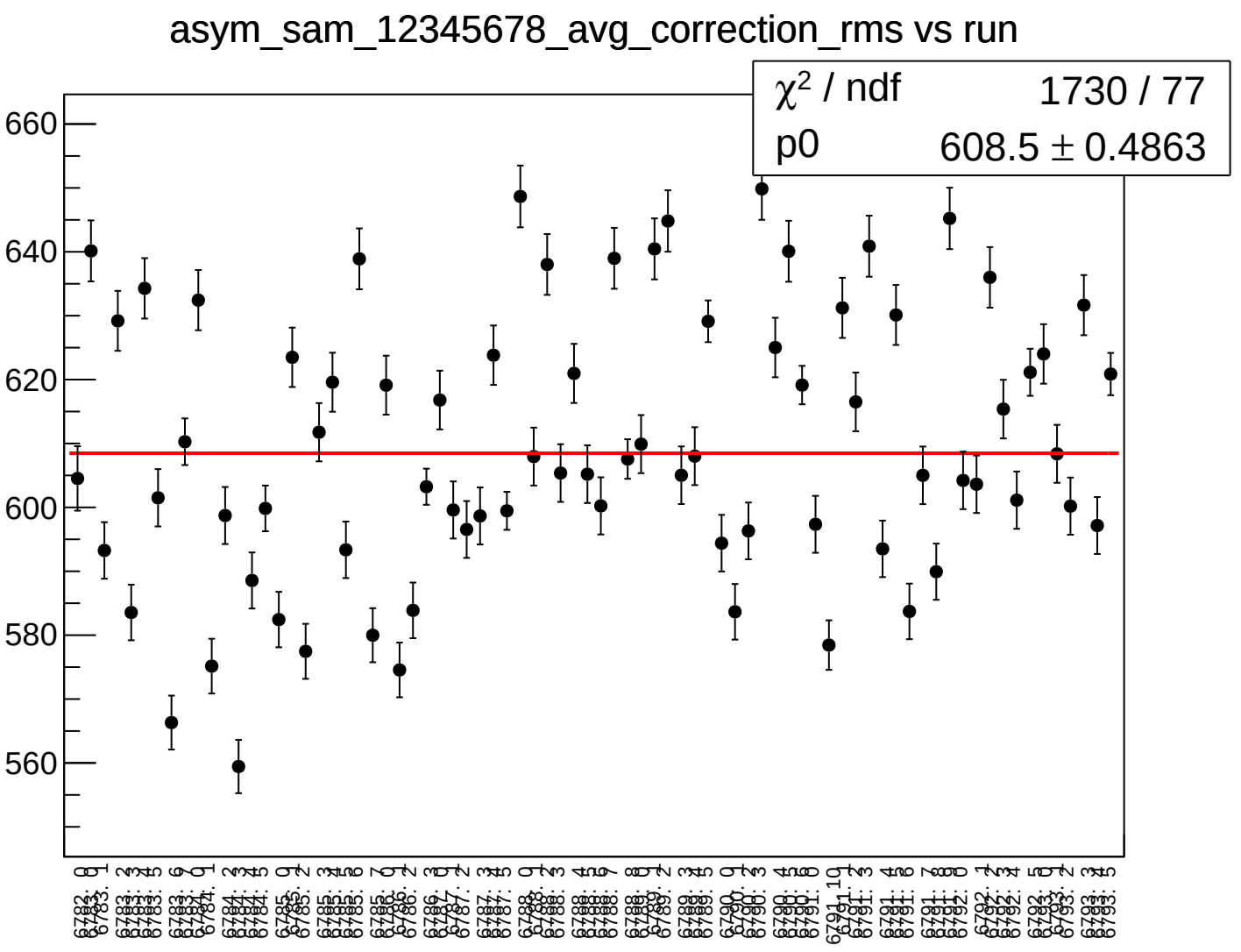

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 84.49 / 77
p0 20.68 ± 74.86
pull
Entries 78
Mean 108.4
Std Dev 61.04

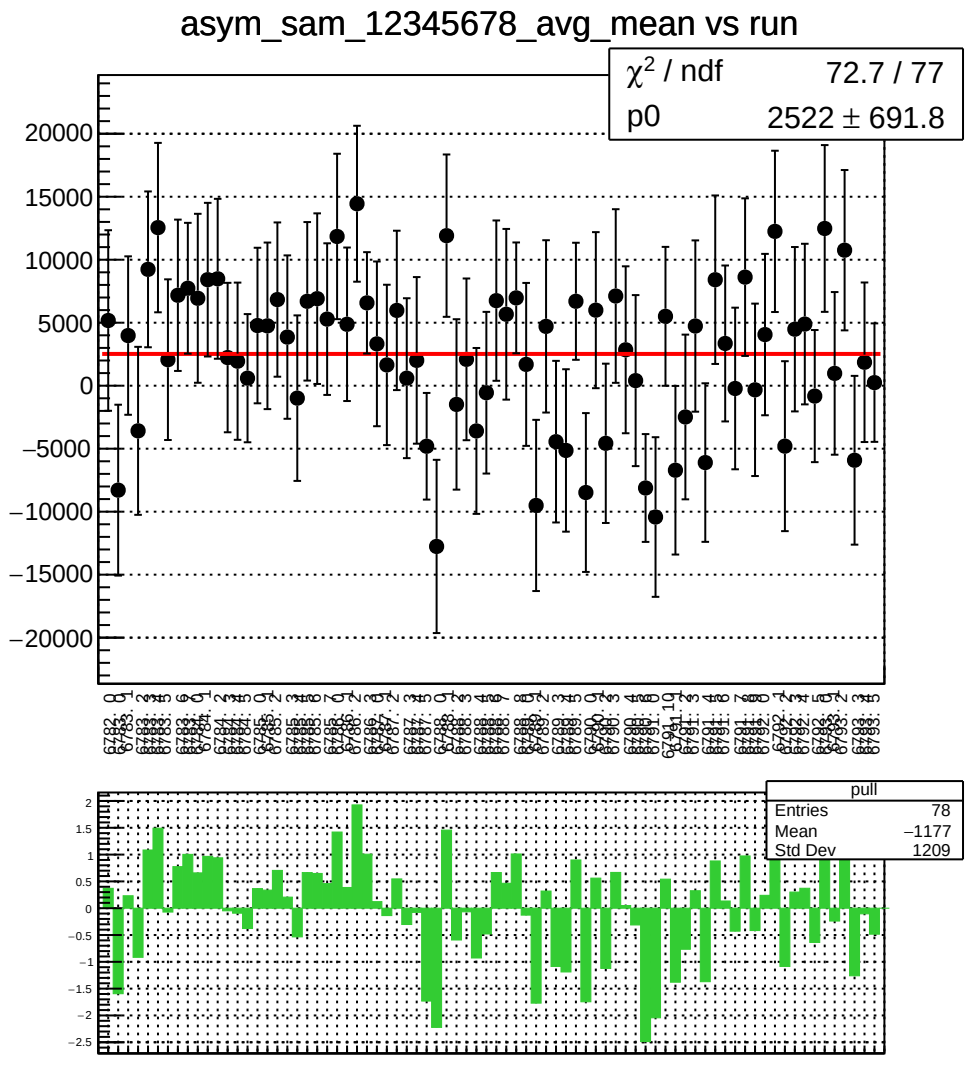

pull1D
Entries 78
Mean −0.02365
Std Dev 1.04

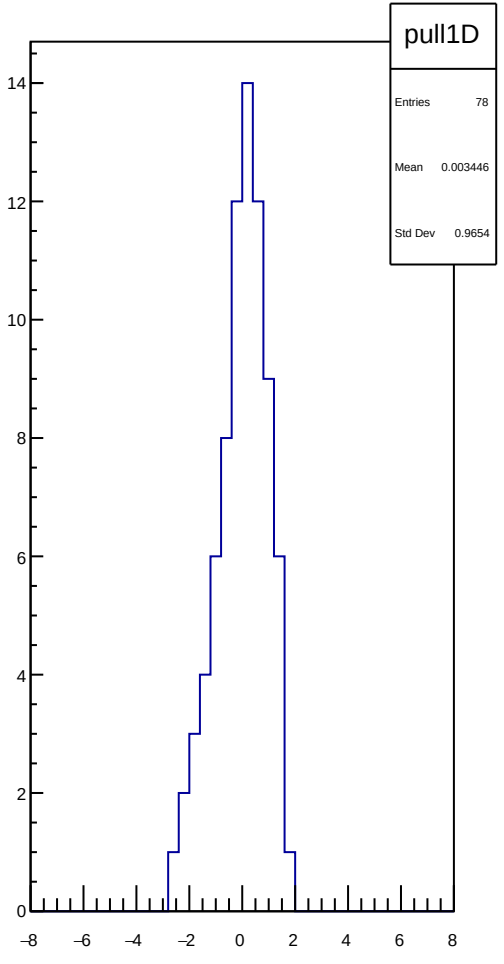

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 2854 / 77
p0 66.21 ± 0.05293
74
72
70
68
66
64
62
60

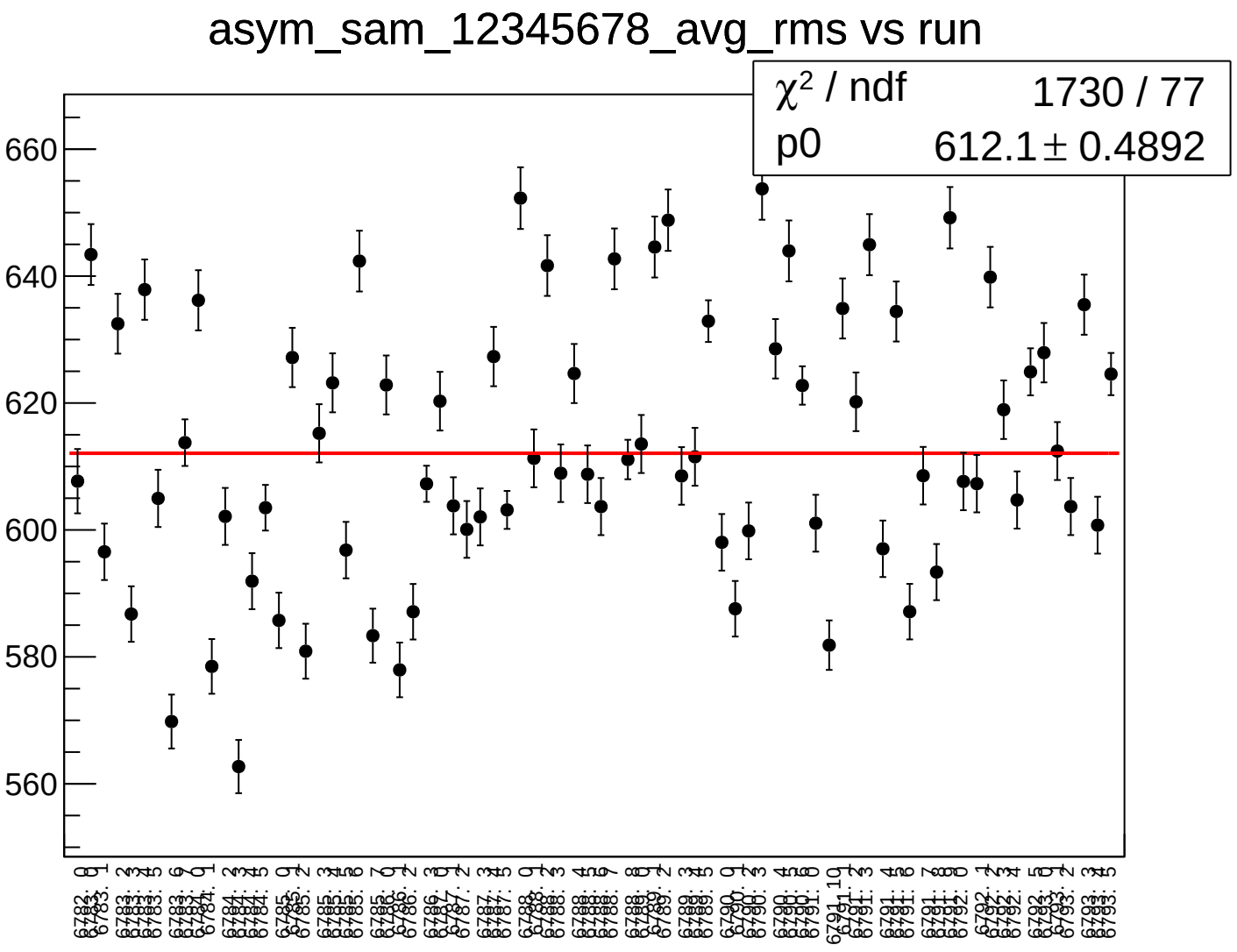

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 71.81 / 77
p0 −2504 ± 687.7
pull
Entries 78
Mean −651.4
Std Dev 682.3

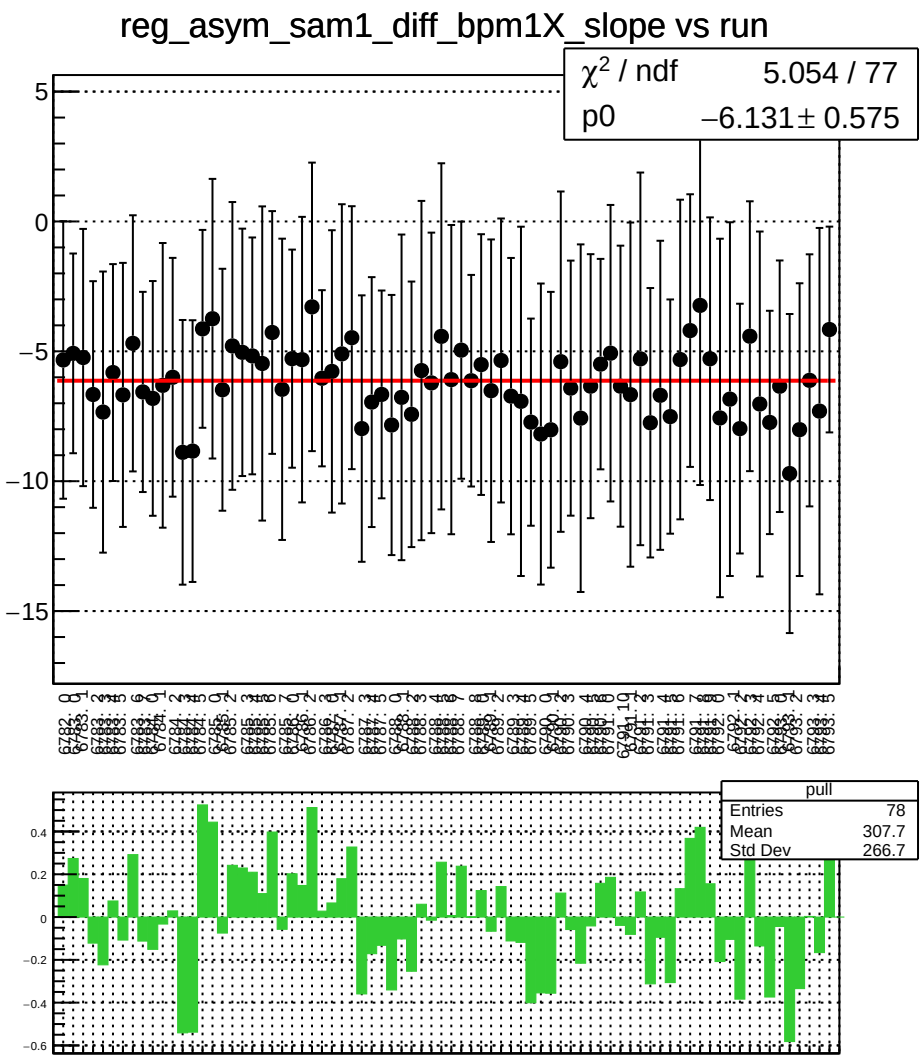

pull1D
Entries 78
Mean −0.005836
Std Dev 0.9595

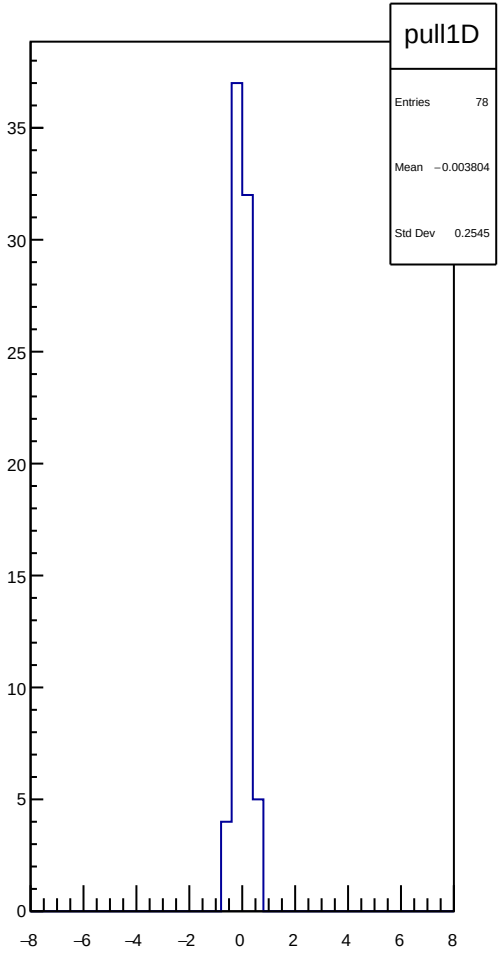

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 1730 / 77
p0 608.5 ± 0.4863
660
640
620
600
580
560

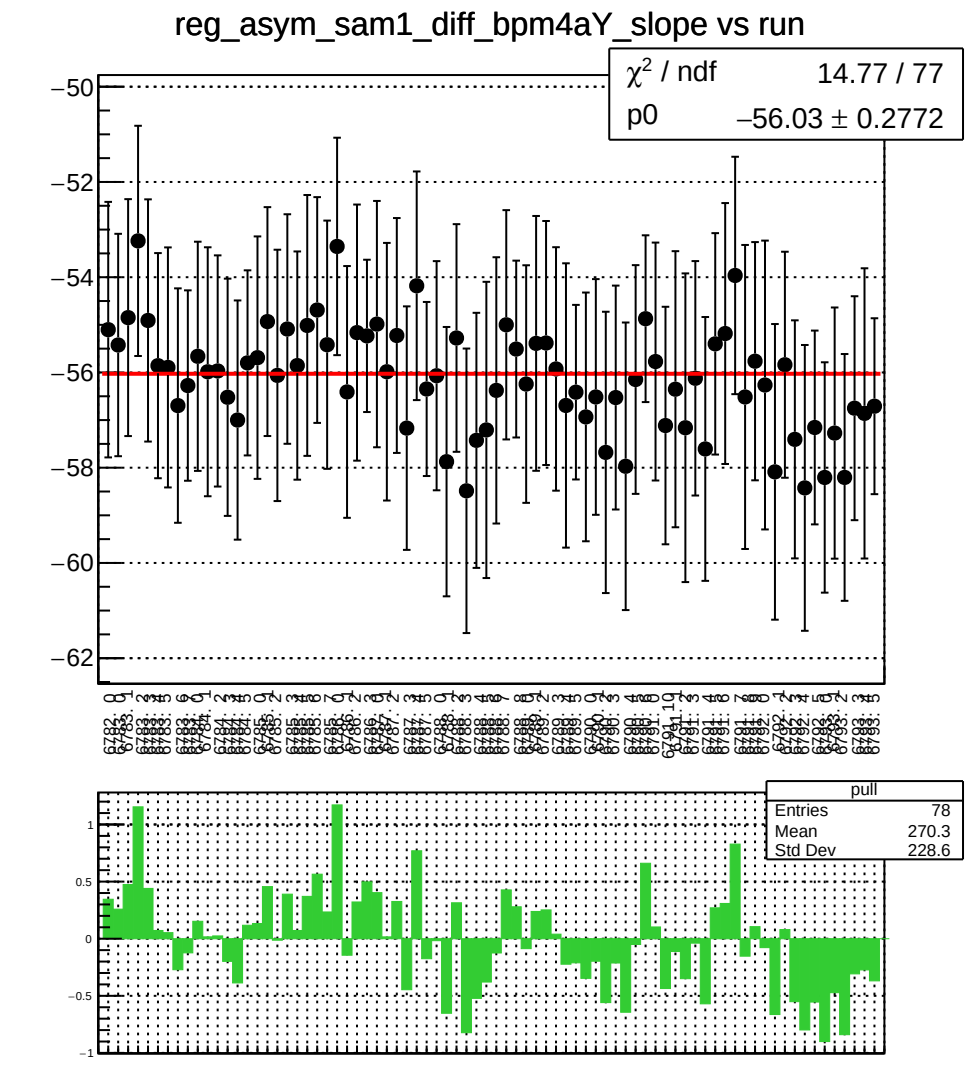

asym_sam_12345678_avg_mean vs run
χ² / ndf 72.7 / 77
p0 2522 ± 691.8
pull
Entries 78
Mean −1177
Std Dev 1209

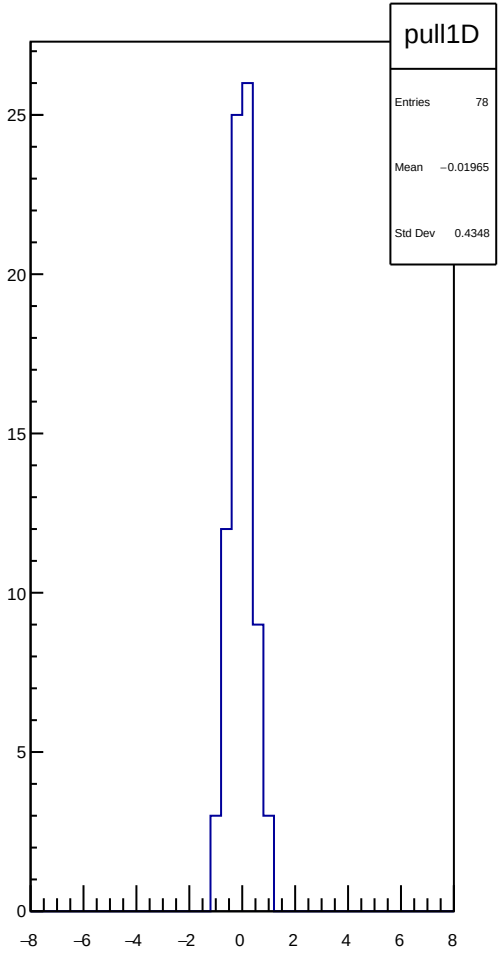

pull1D
Entries 78
Mean 0.003446
Std Dev 0.9654

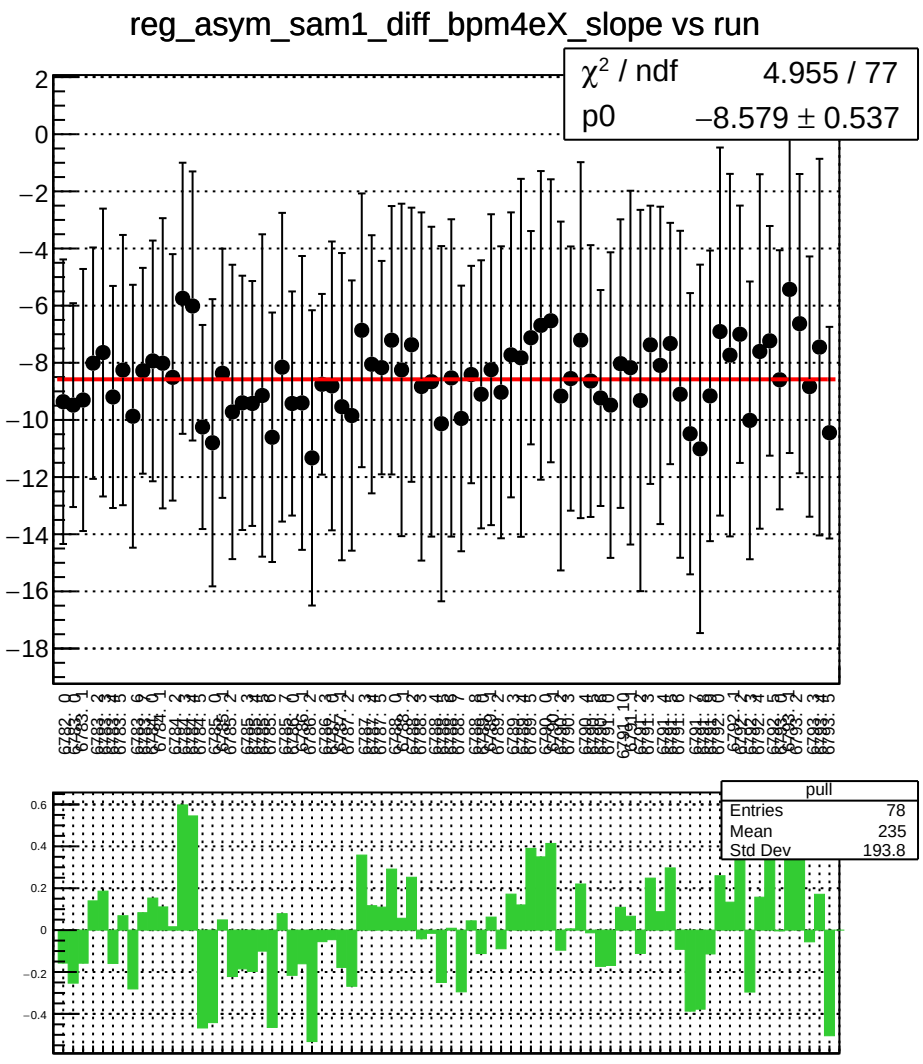

asym_sam_12345678_avg_rms vs run
χ² / ndf 1730 / 77
p0 612.1 ± 0.4892
660
640
620
600
580
560

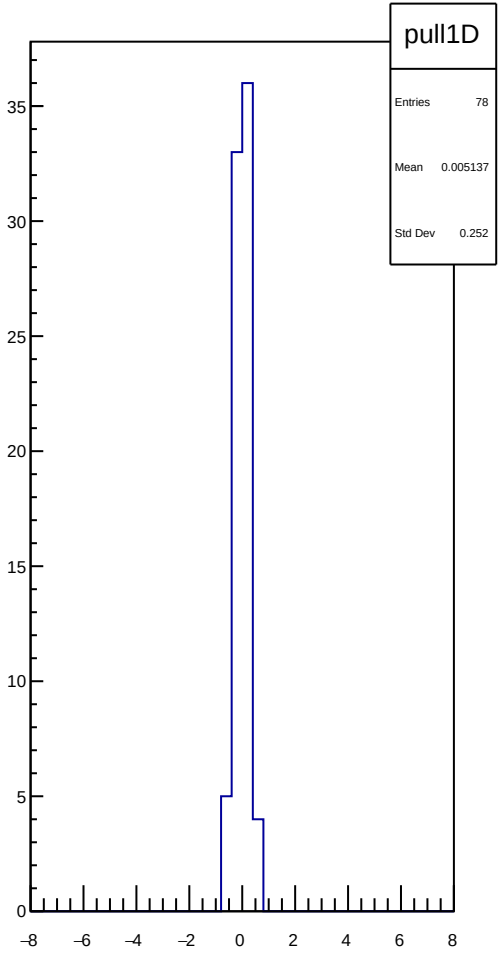

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 5.054 / 77
p0 −6.131 ± 0.575
pull
Entries 78
Mean 307.7
Std Dev 266.7

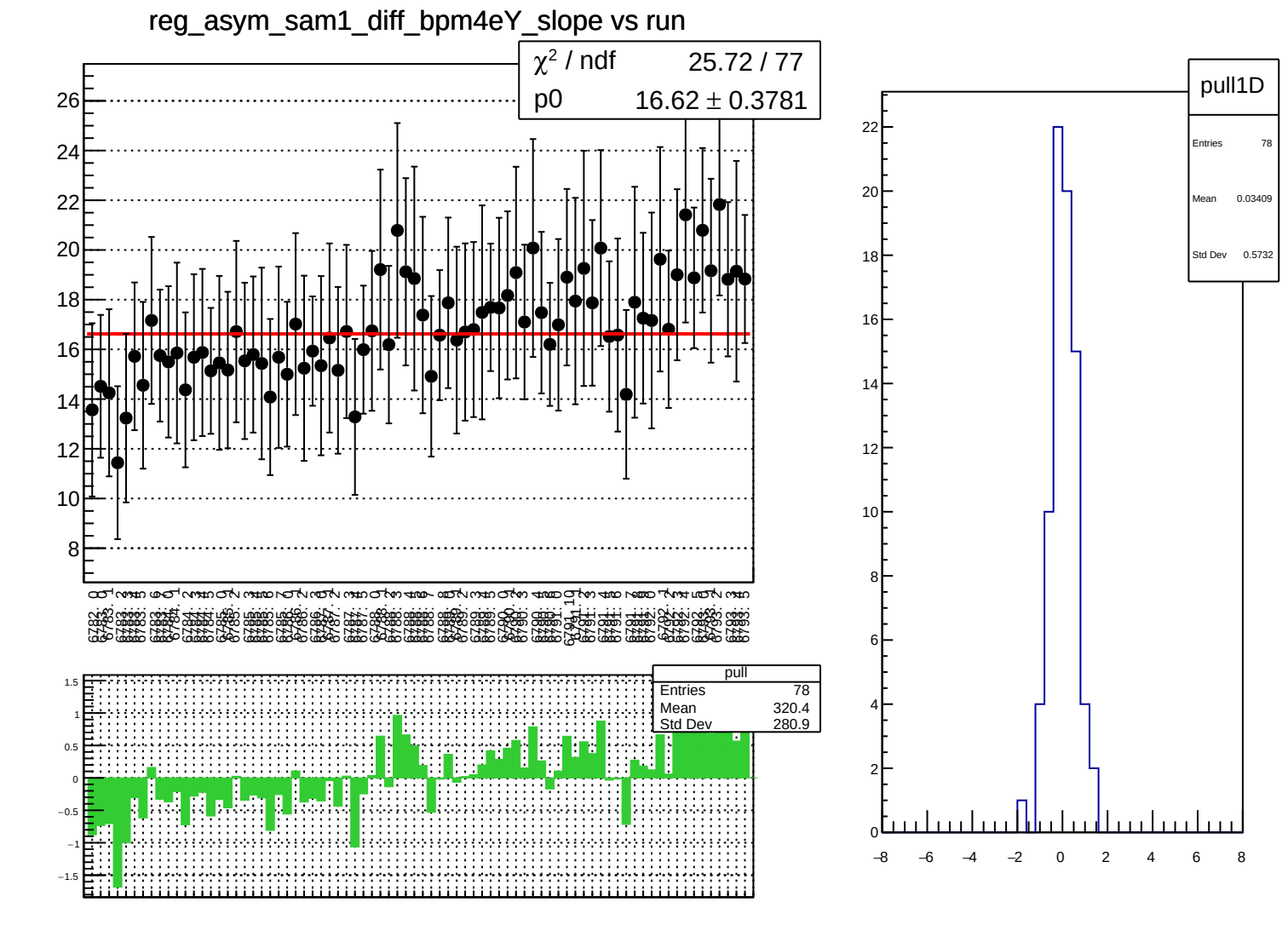

pull1D
Entries 78
Mean −0.003804
Std Dev 0.2545

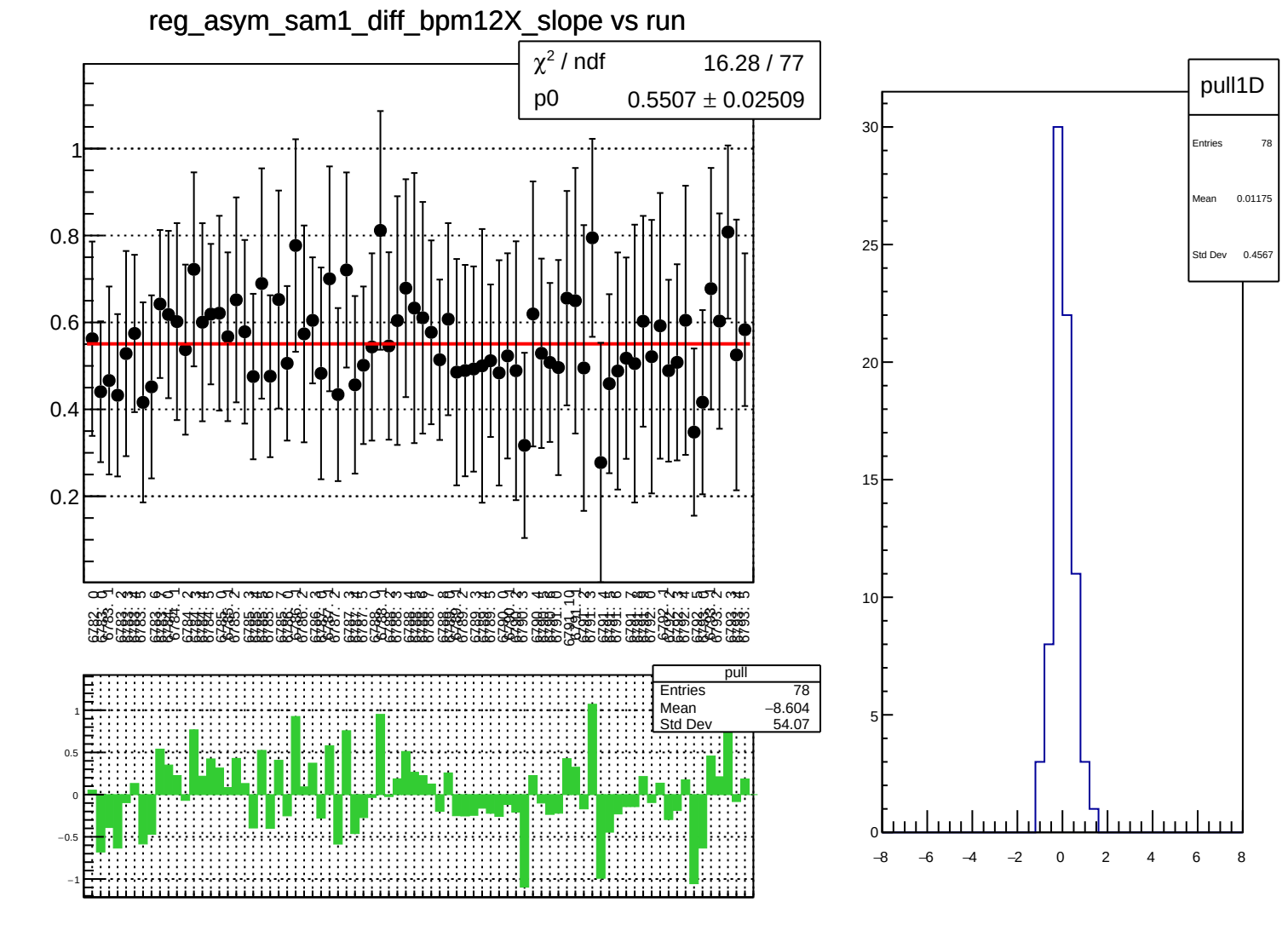

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 14.77 / 77
p0 −56.03 ± 0.2772
pull
Entries 78
Mean 270.3
Std Dev 228.6

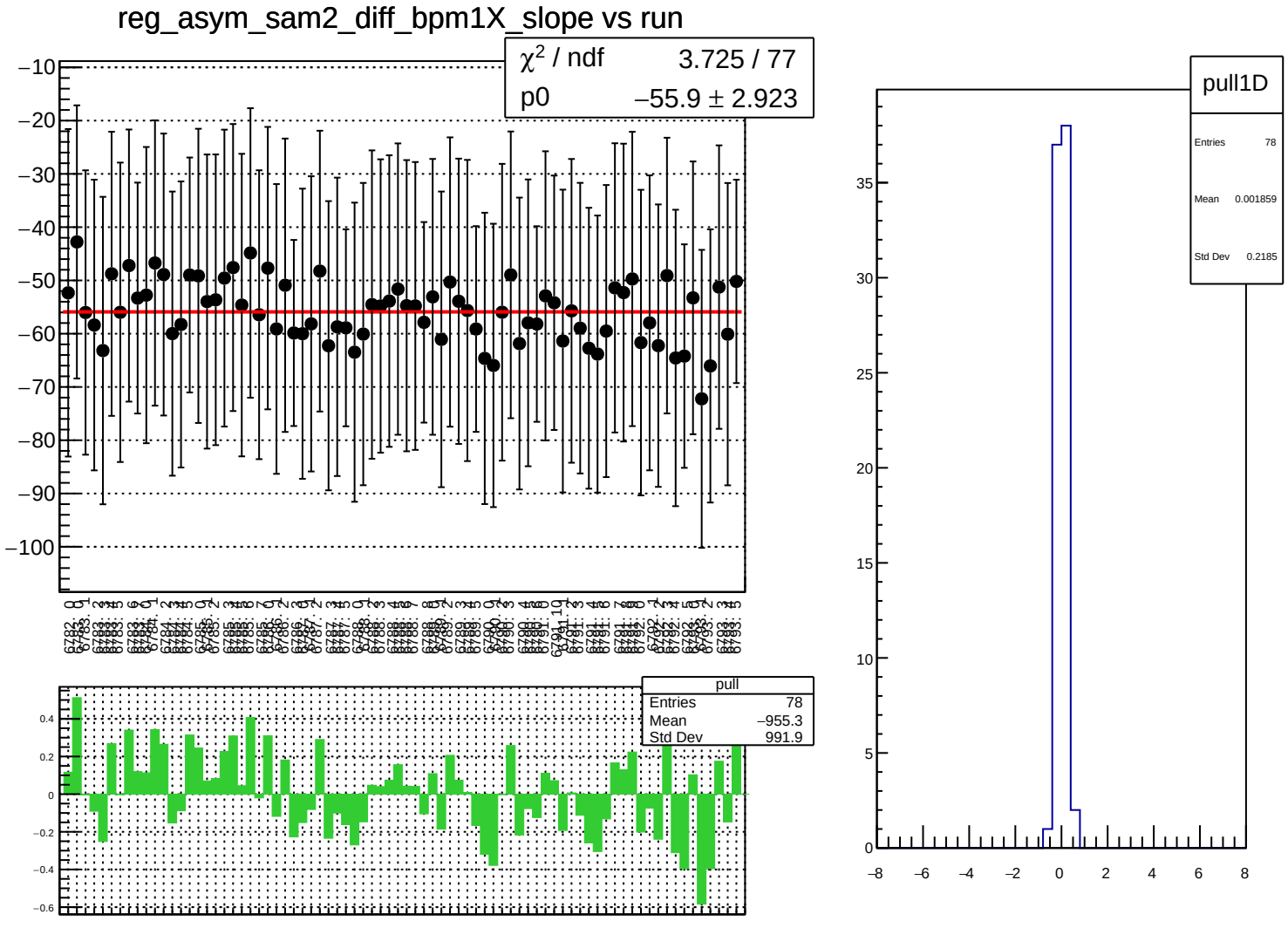

pull1D
Entries 78
Mean −0.01965
Std Dev 0.4348

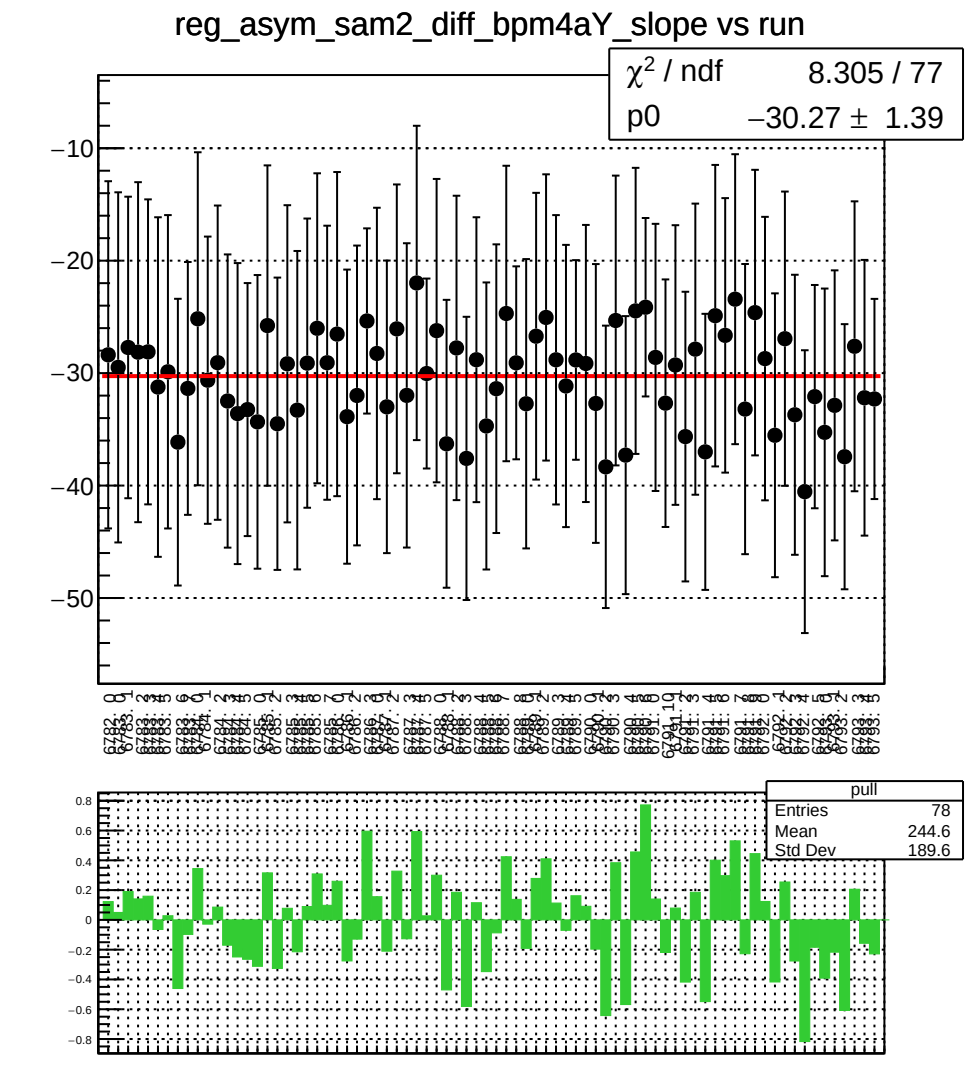

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 4.955 / 77
p0 −8.579 ± 0.537
pull
Entries 78
Mean 235
Std Dev 193.8

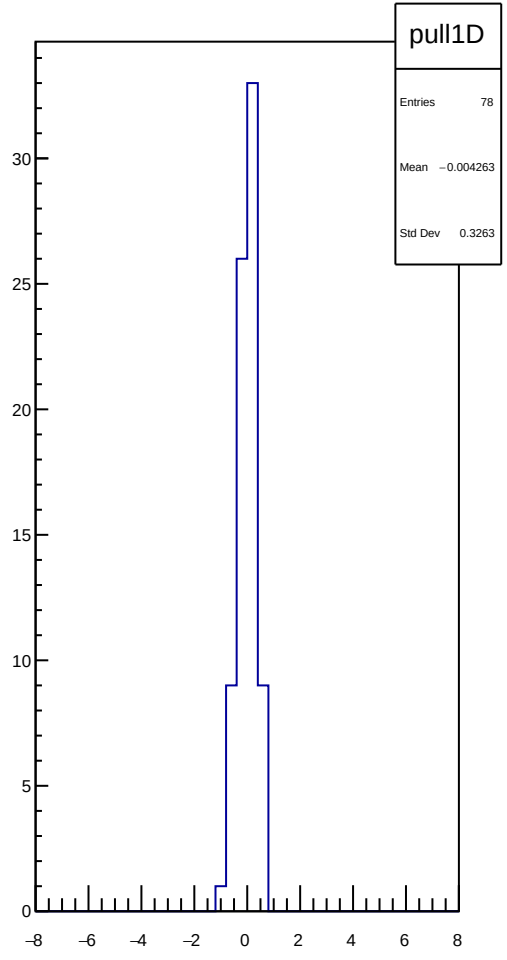

pull1D
Entries 78
Mean 0.005137
Std Dev 0.252

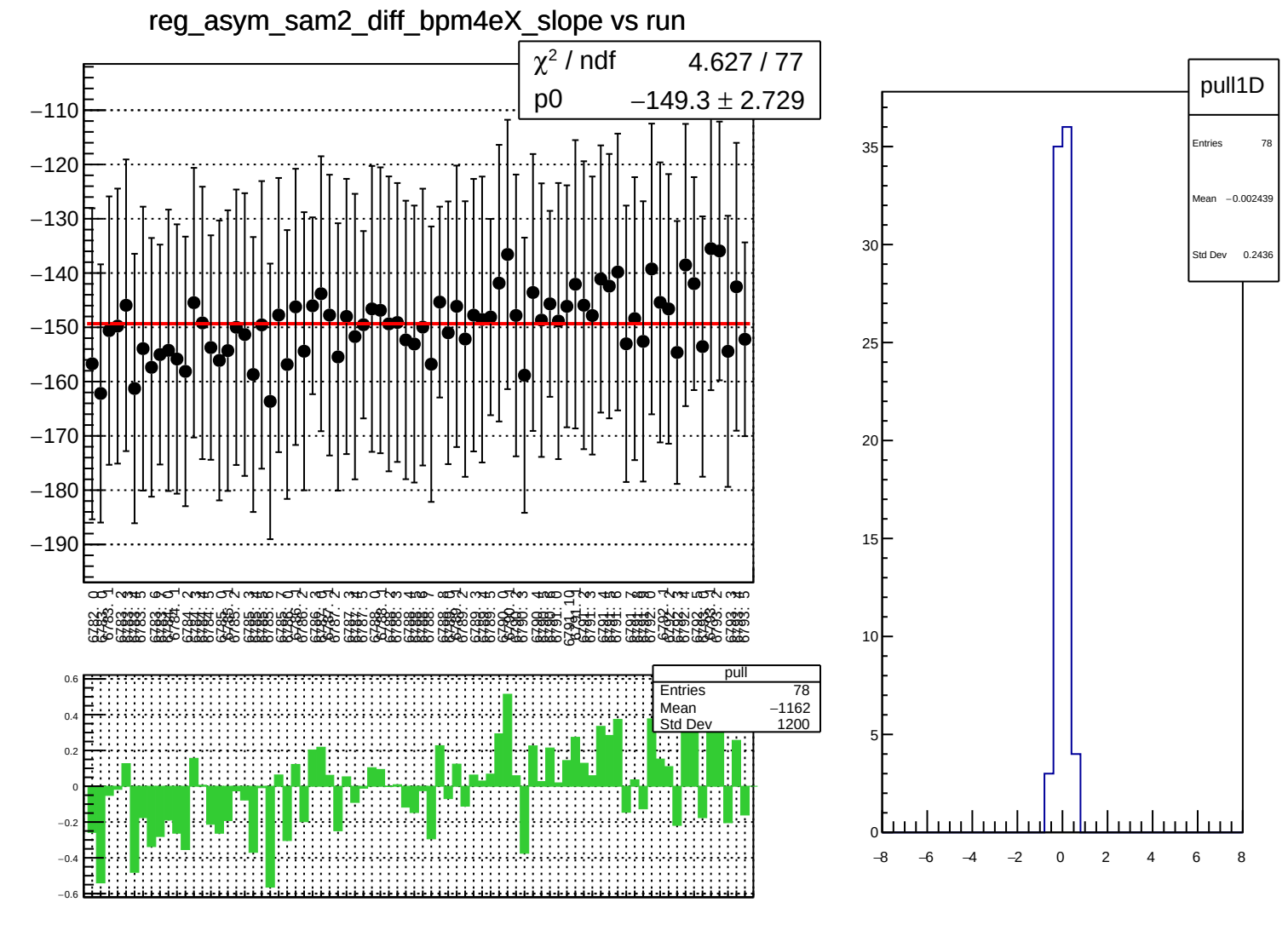

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 25.72 / 77
p0 16.62 ± 0.3781
pull
Entries 78
Mean 320.4
Std Dev 280.9
pull1D
Entries 78
Mean 0.03409
Std Dev 0.5732

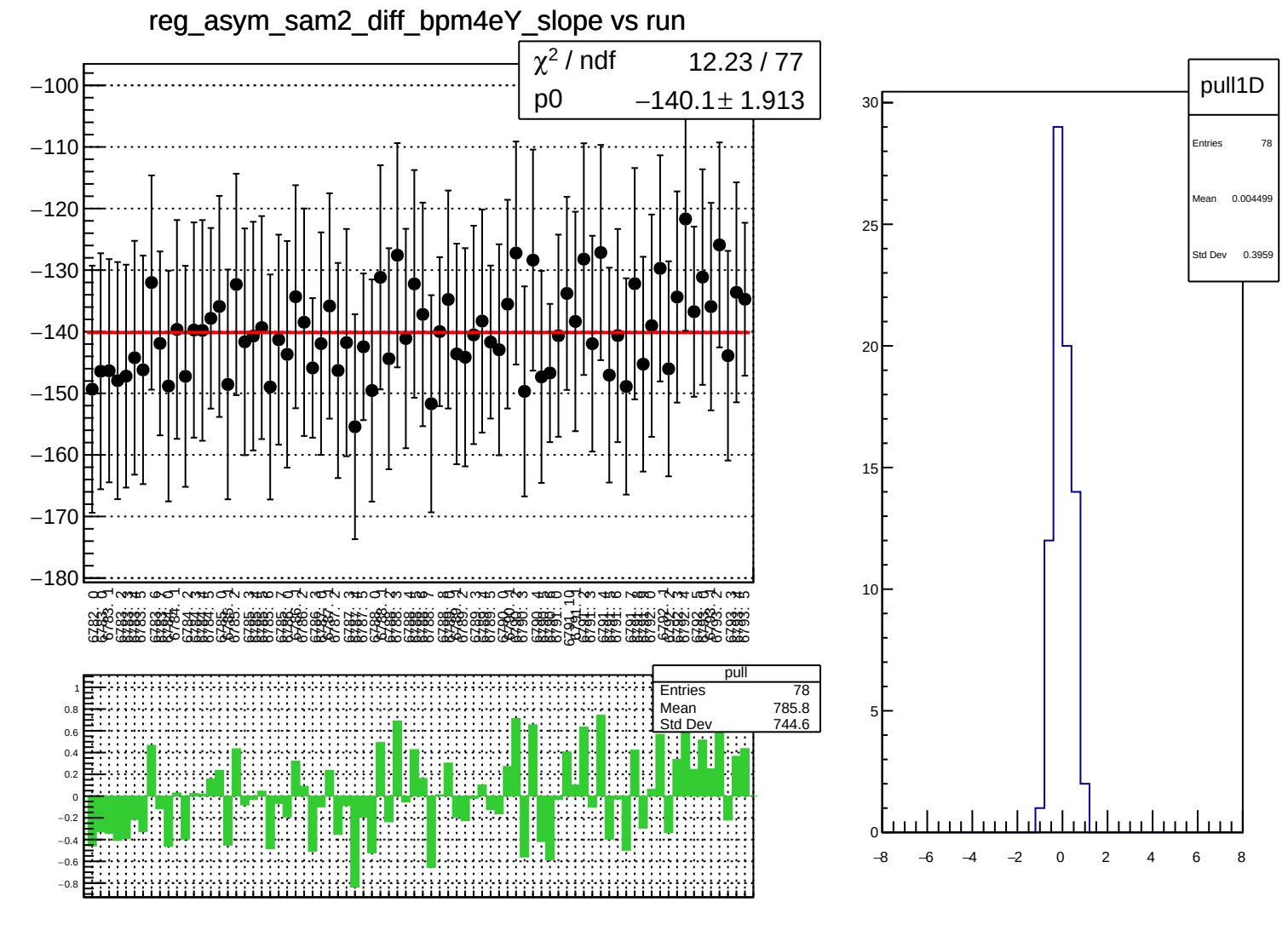

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 16.28 / 77
p0 0.5507 ± 0.02509
pull
Entries 78
Mean −8.604
Std Dev 54.07
pull1D
Entries 78
Mean 0.01175
Std Dev 0.4567

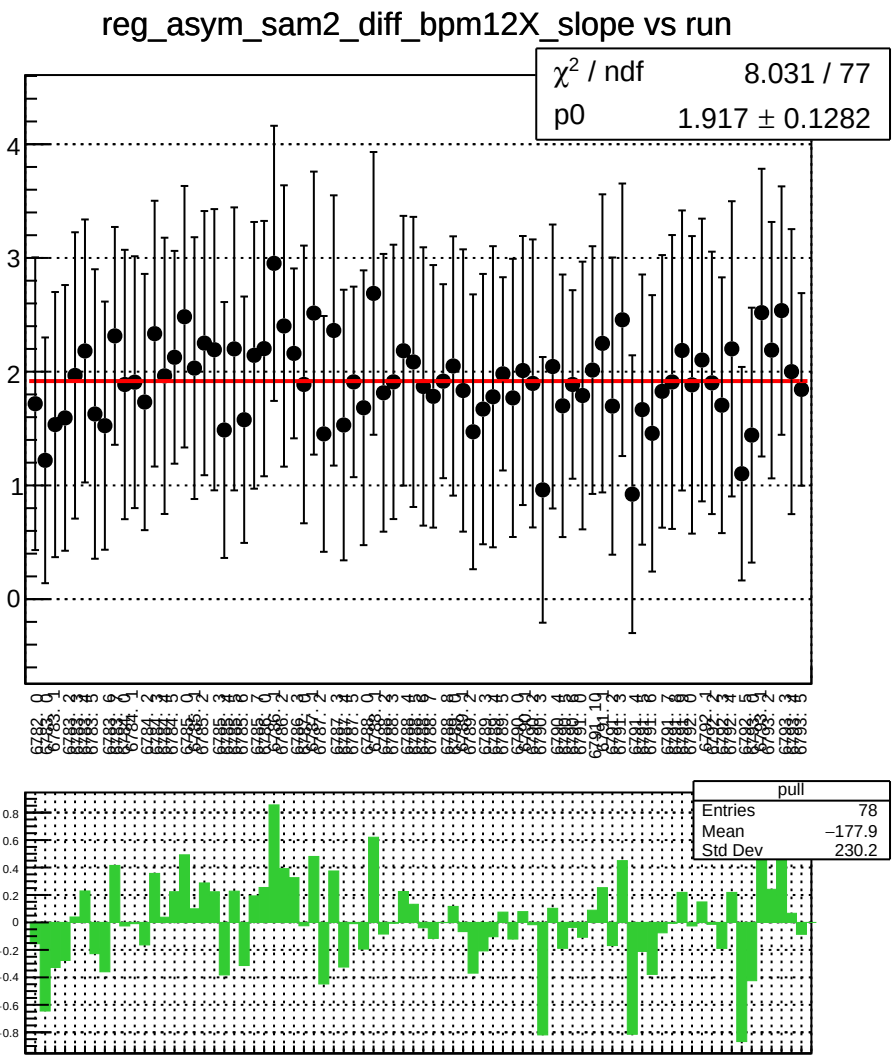

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 3.725 / 77
p0 −55.9 ± 2.923
pull
Entries 78
Mean −955.3
Std Dev 991.9
pull1D
Entries 78
Mean 0.001859
Std Dev 0.2185

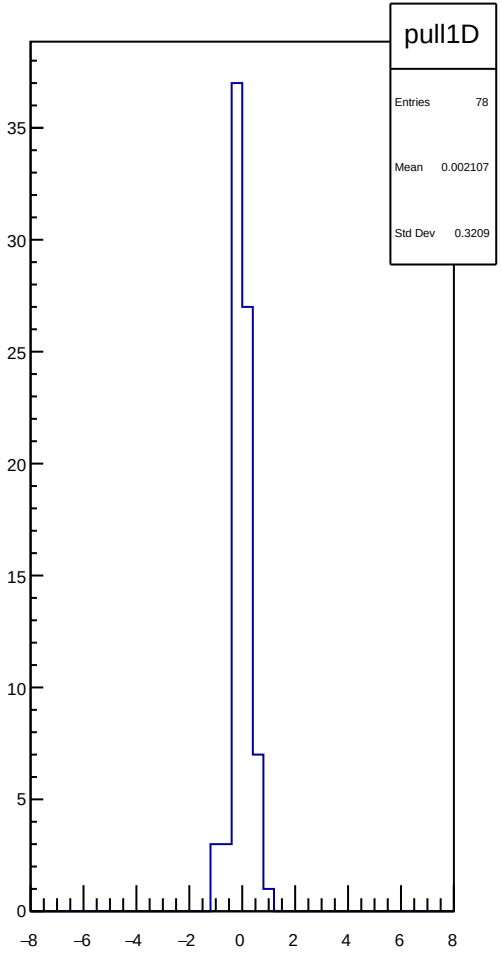

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 8.305 / 77
p0 −30.27 ± 1.39
pull
Entries 78
Mean 244.6
Std Dev 189.6

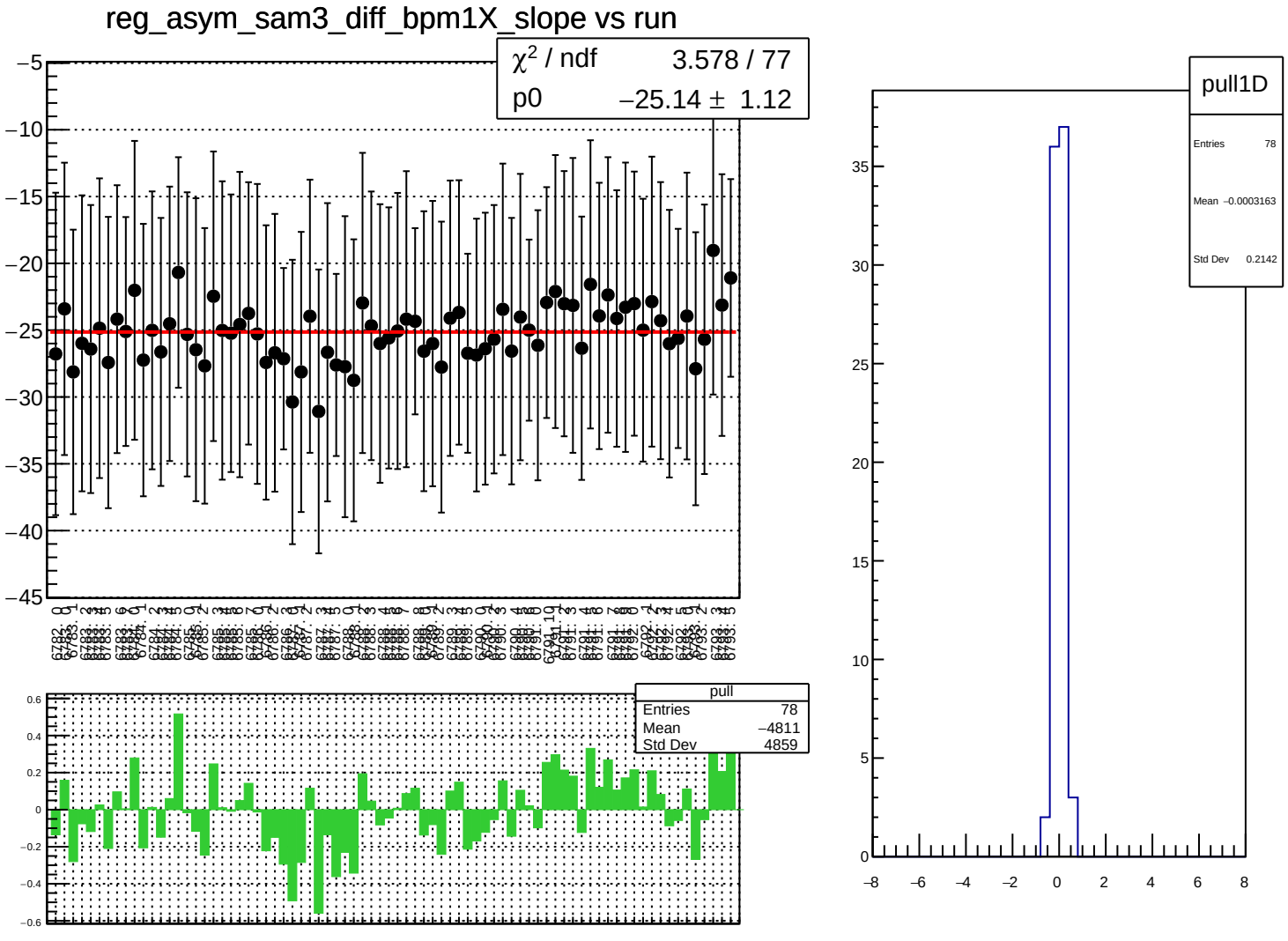

pull1D
Entries 78
Mean −0.004263
Std Dev 0.3263

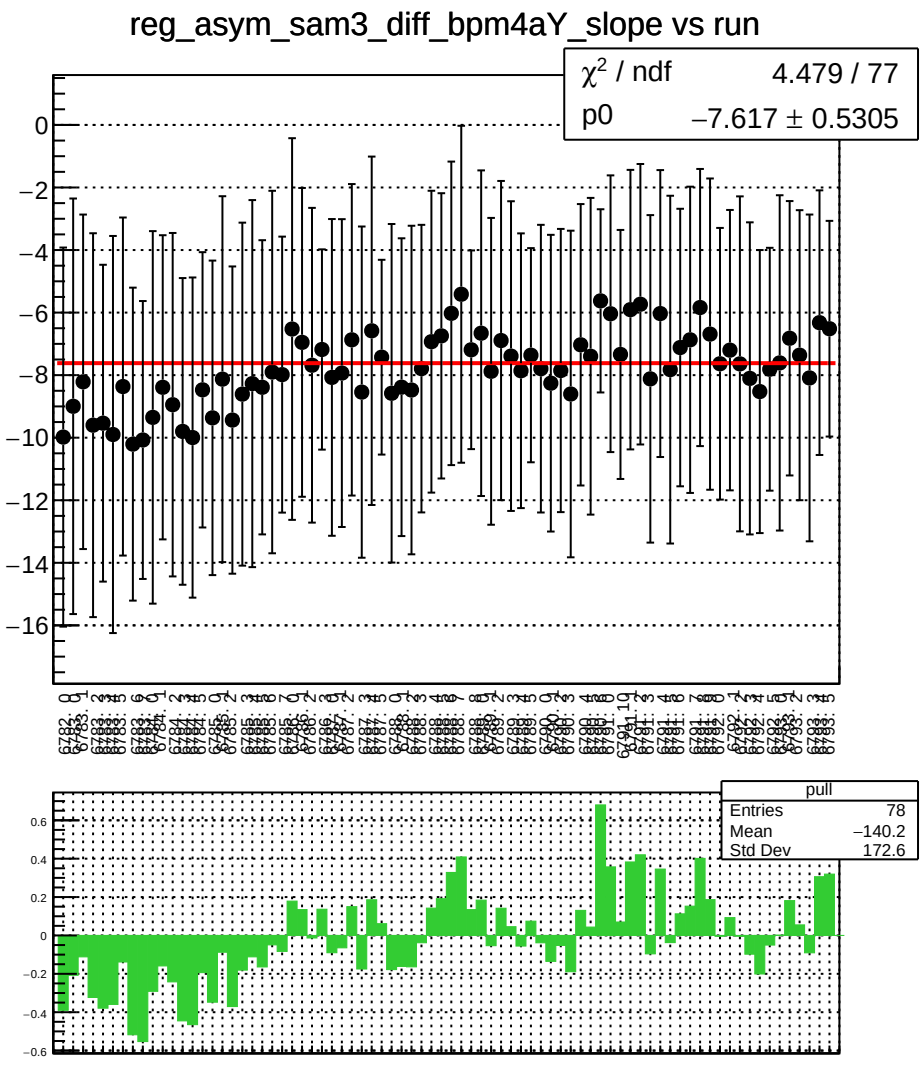

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 4.627 / 77
p0 −149.3 ± 2.729
pull
Entries 78
Mean −1162
Std Dev 1200
pull1D
Entries 78
Mean −0.002439
Std Dev 0.2436

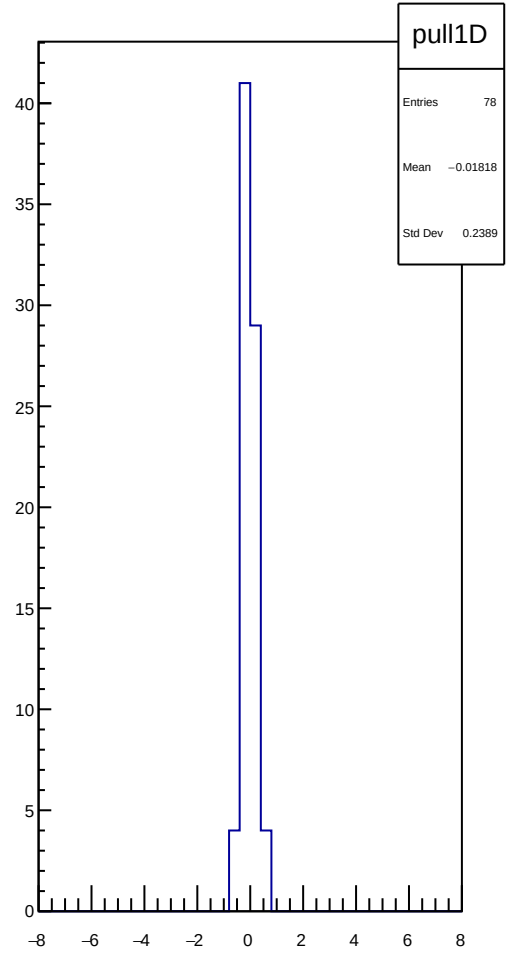

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 12.23 / 77
p0 −140.1± 1.913
pull
Entries 78
Mean 785.8
Std Dev 744.6
pull1D
Entries 78
Mean 0.004499
Std Dev 0.3959

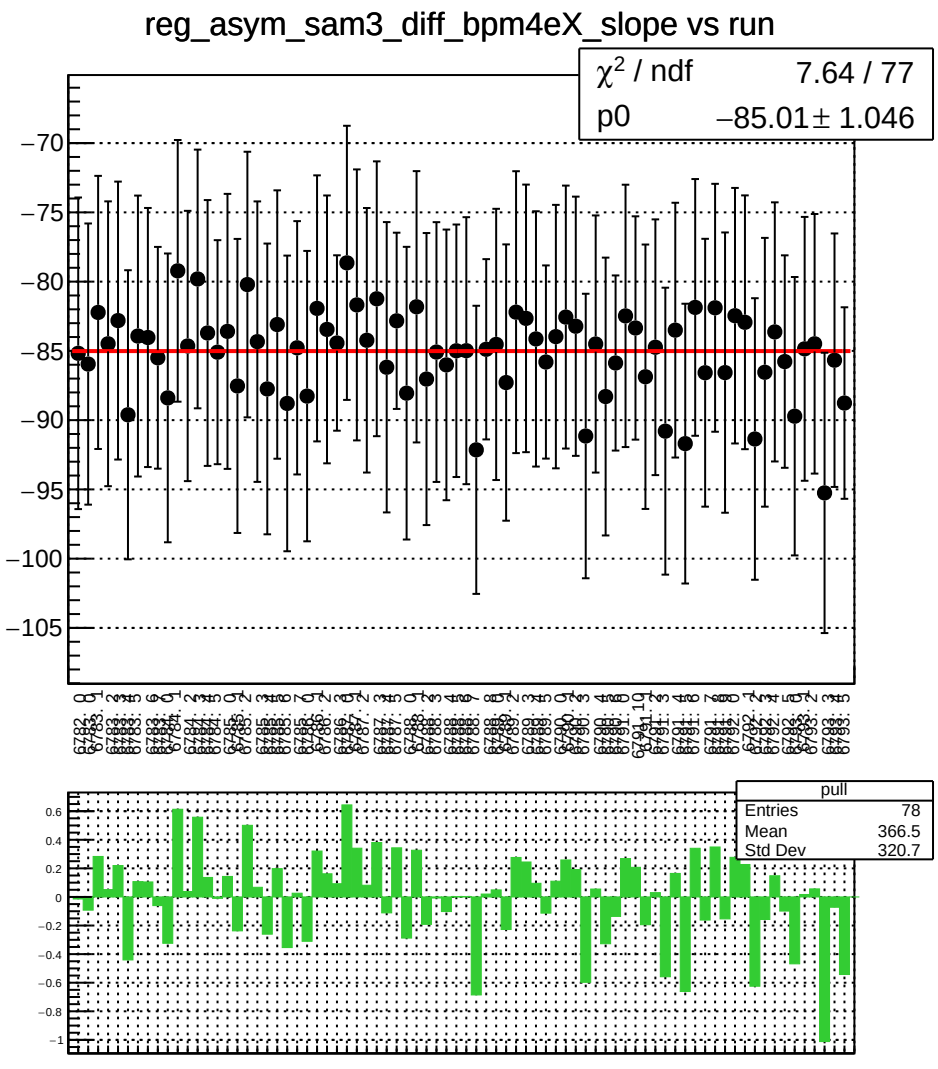

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 8.031 / 77
p0 1.917 ± 0.1282
pull
Entries 78
Mean −177.9
Std Dev 230.2

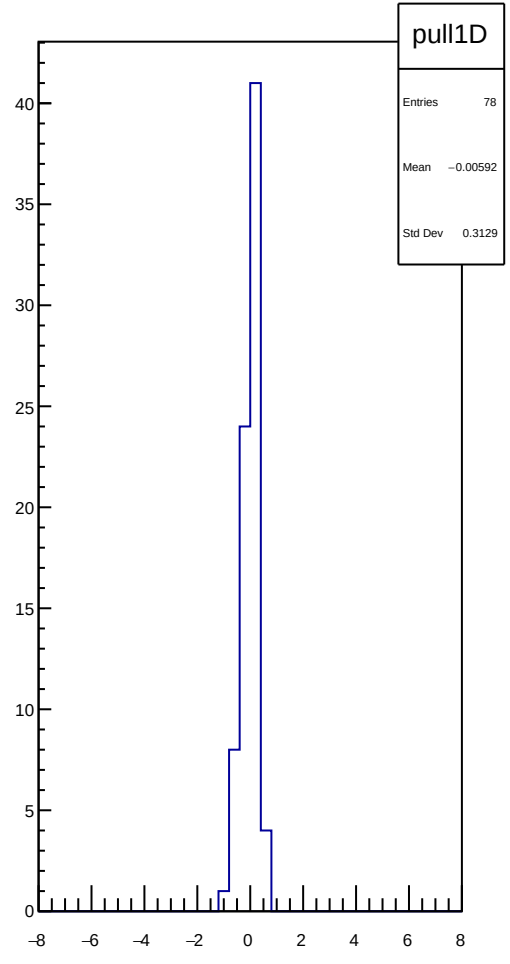

pull1D
Entries 78
Mean 0.002107
Std Dev 0.3209

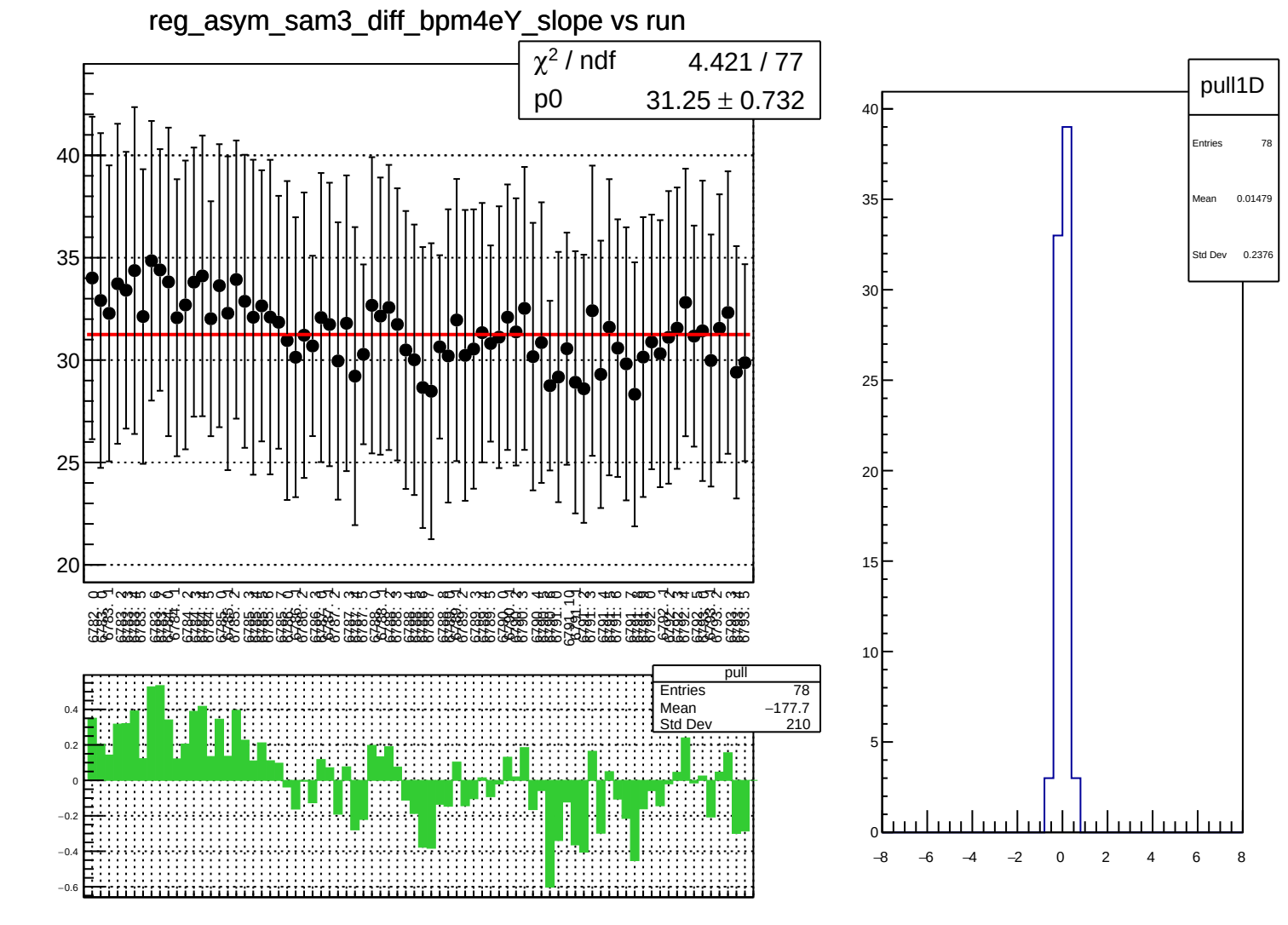

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 3.578 / 77
p0 −25.14 ± 1.12
pull
Entries 78
Mean −4811
Std Dev 4859
pull1D
Entries 78
Mean −0.0003163
Std Dev 0.2142

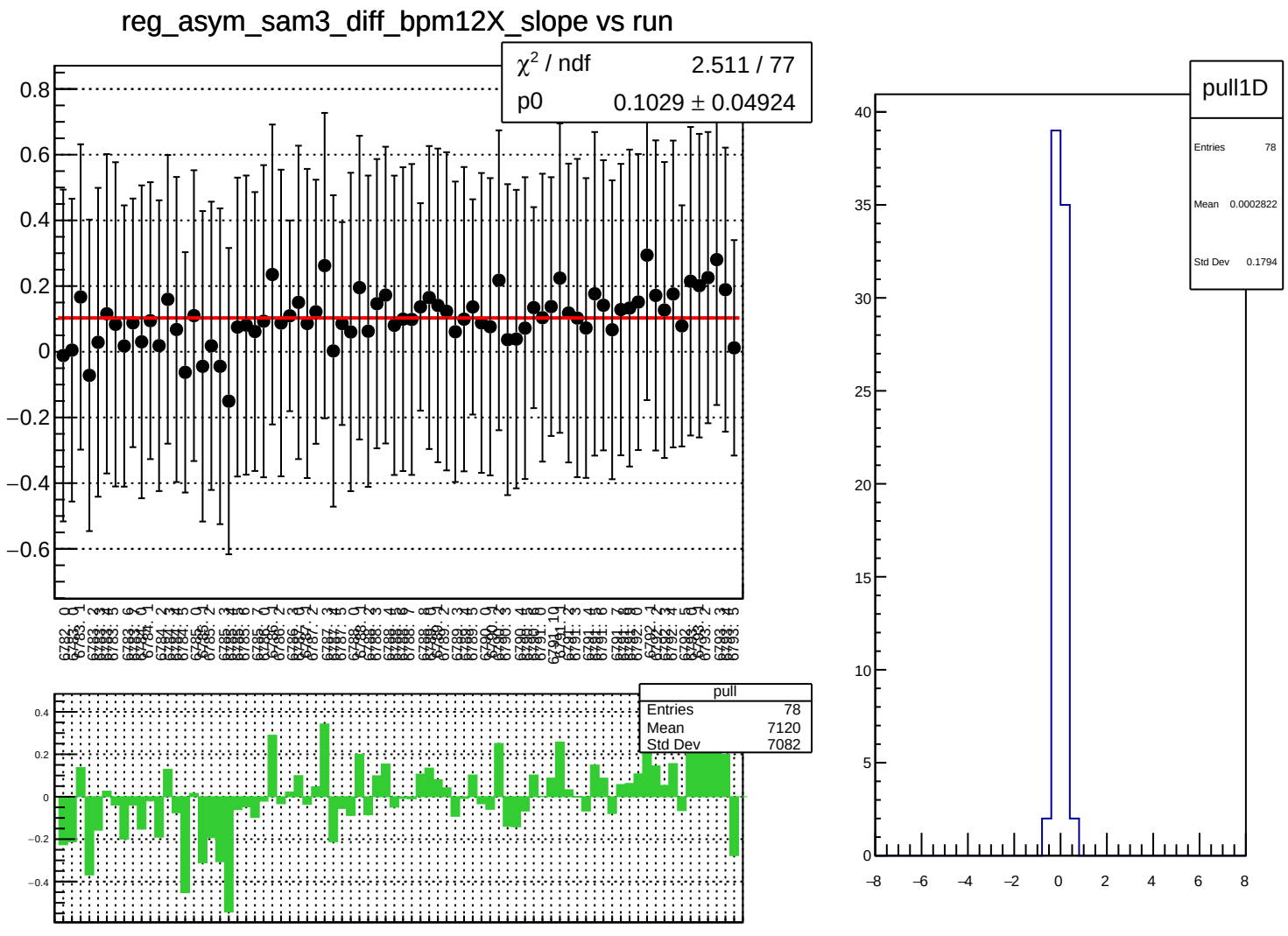

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 4.479 / 77
p0 −7.617 ± 0.5305
pull
Entries 78
Mean −140.2
Std Dev 172.6

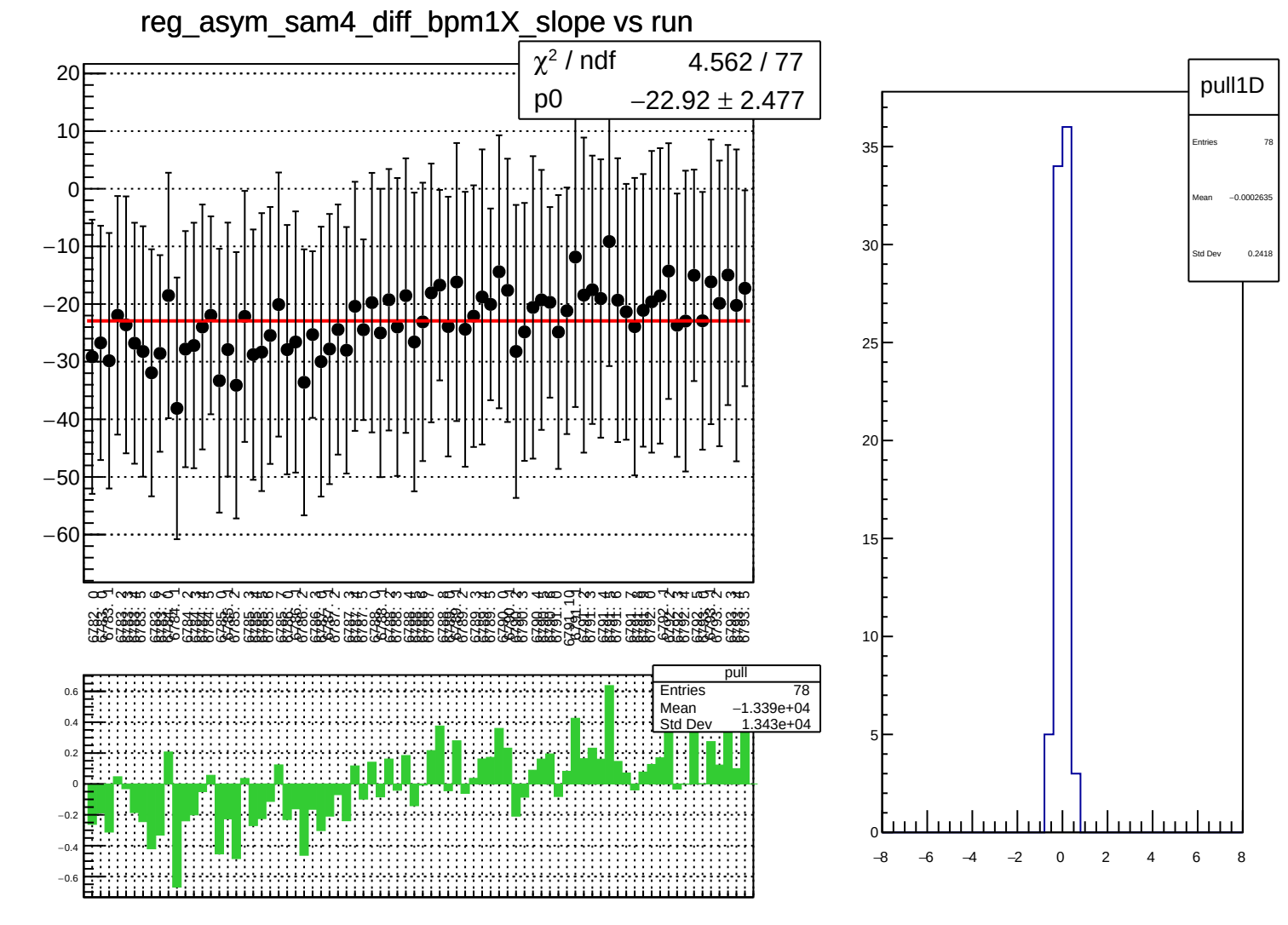

pull1D
Entries 78
Mean −0.01818
Std Dev 0.2389

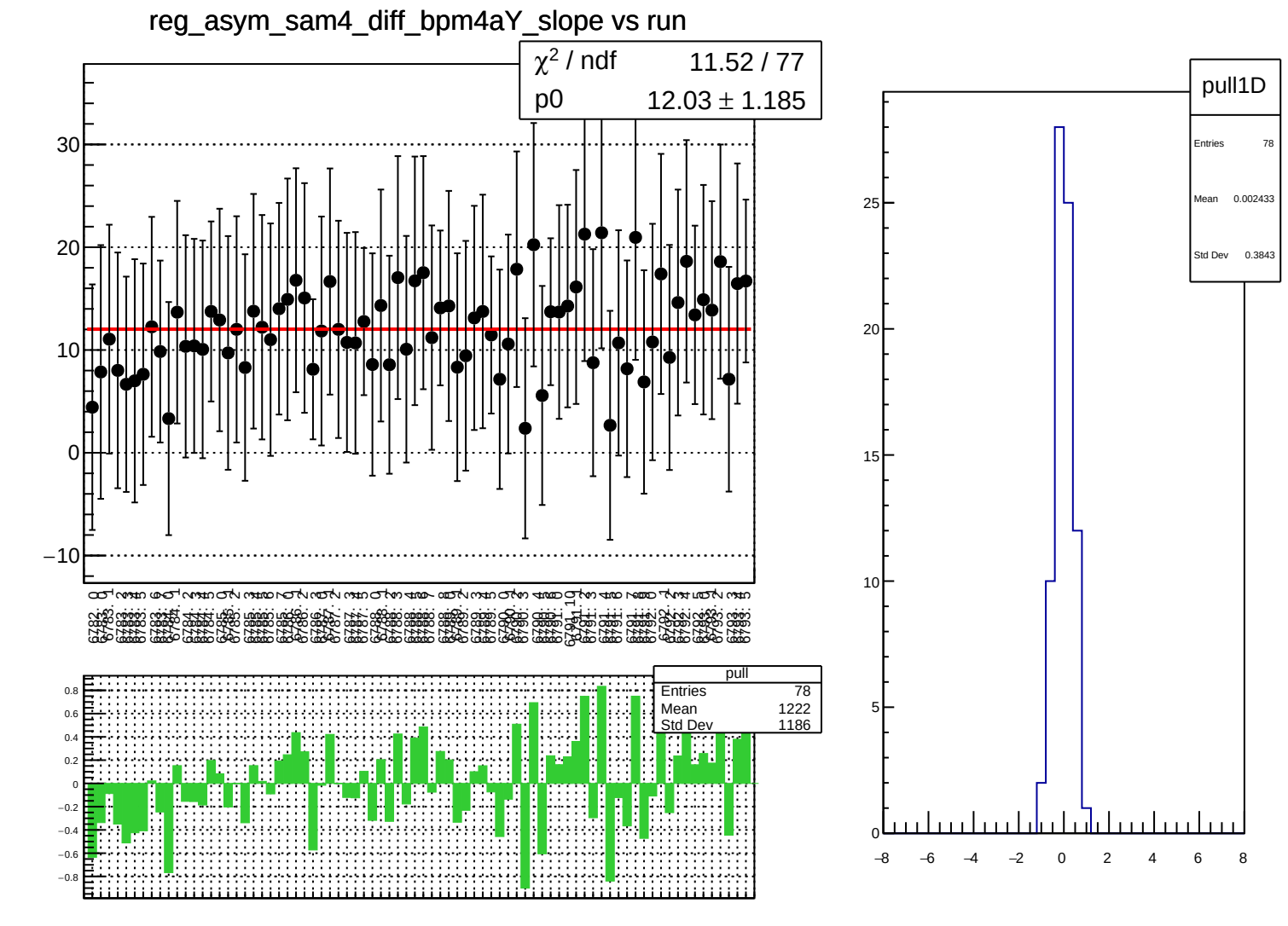

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 7.64 / 77
p0 −85.01 ± 1.046
pull
Entries 78
Mean 366.5
Std Dev 320.7

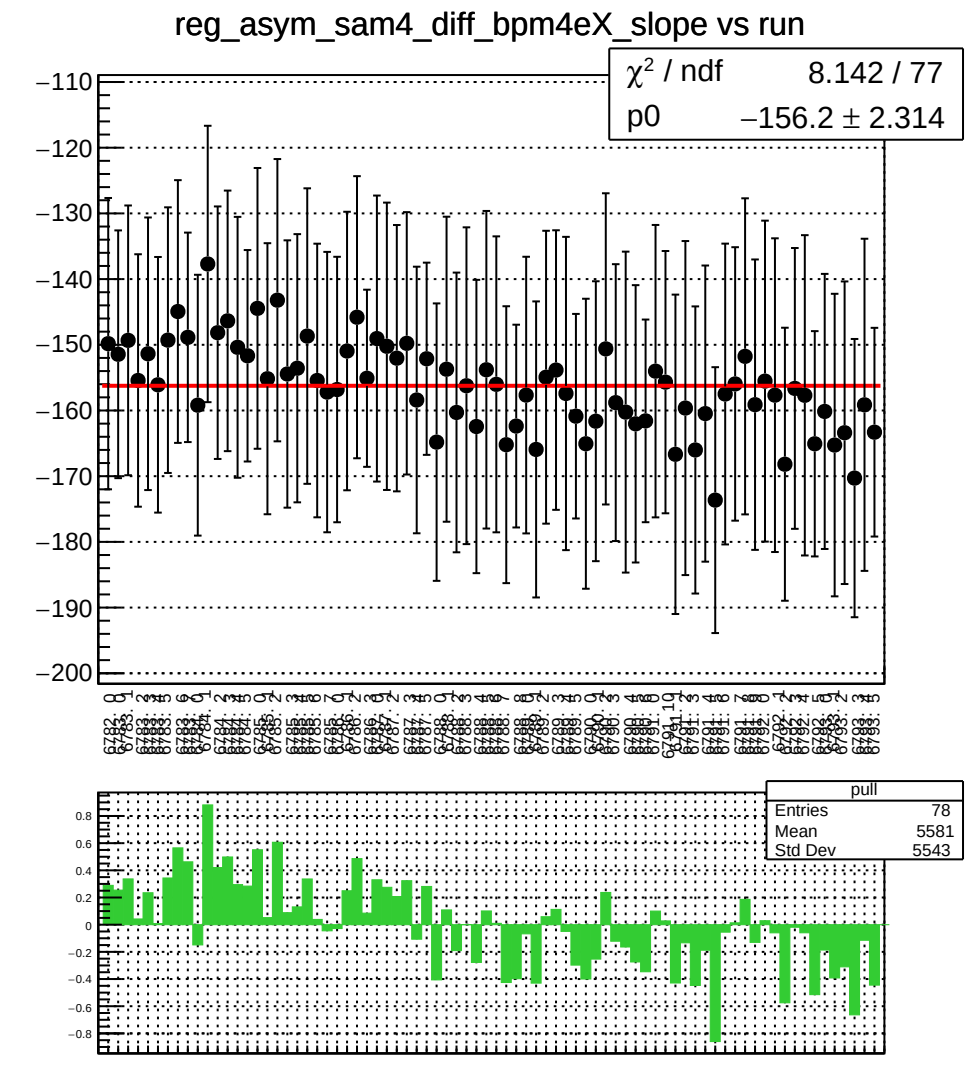

pull1D
Entries 78
Mean −0.00592
Std Dev 0.3129

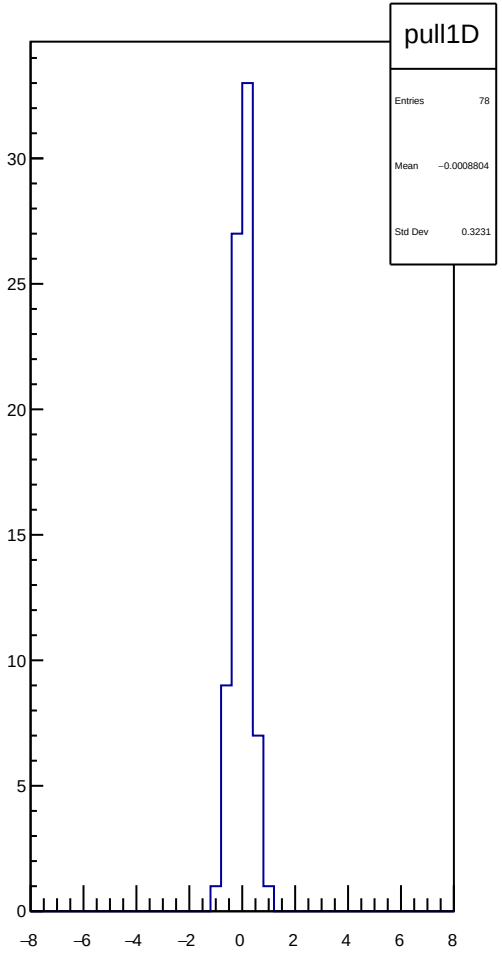

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 4.421 / 77
p0 31.25 ± 0.732
pull
Entries 78
Mean −177.7
Std Dev 210
pull1D
Entries 78
Mean 0.01479
Std Dev 0.2376

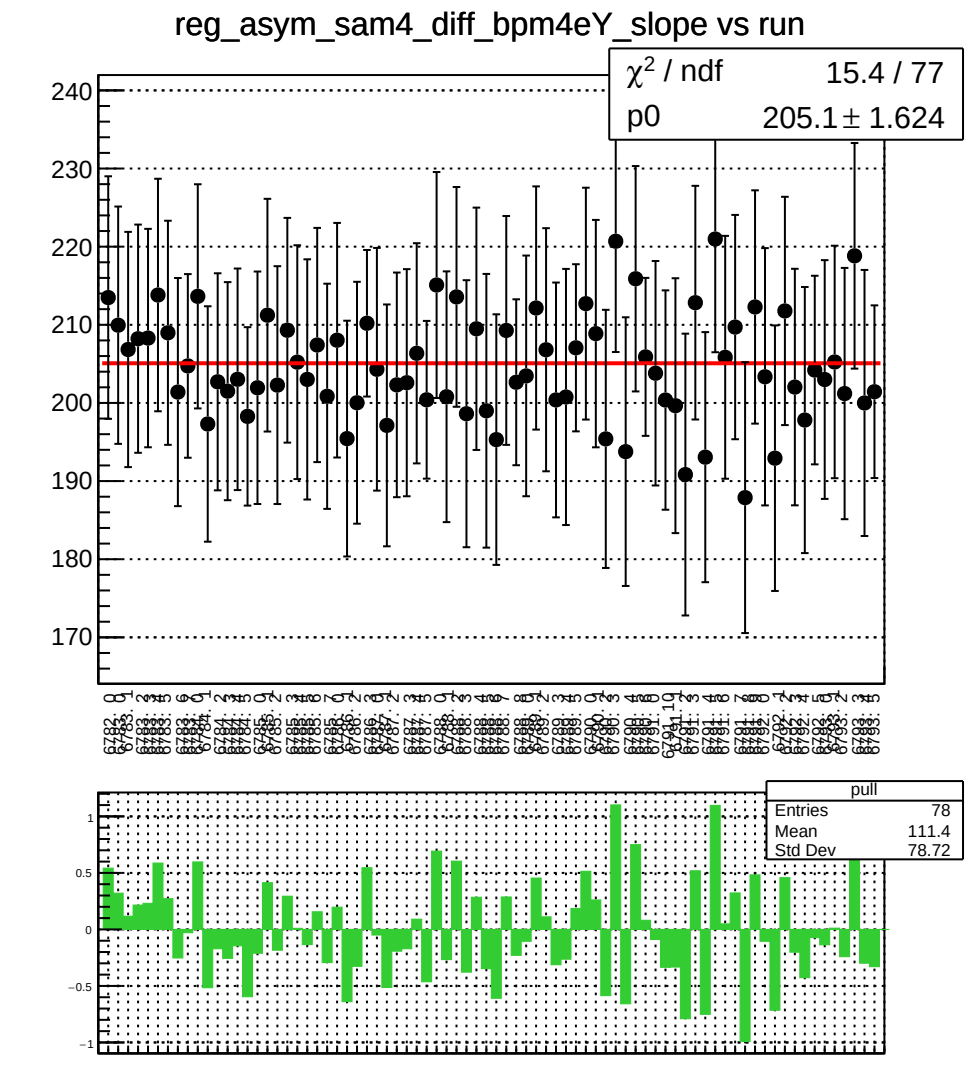

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 2.511 / 77
p0 0.1029 ± 0.04924
pull
Entries 78
Mean 7120
Std Dev 7082
pull1D
Entries 78
Mean 0.0002822
Std Dev 0.1794

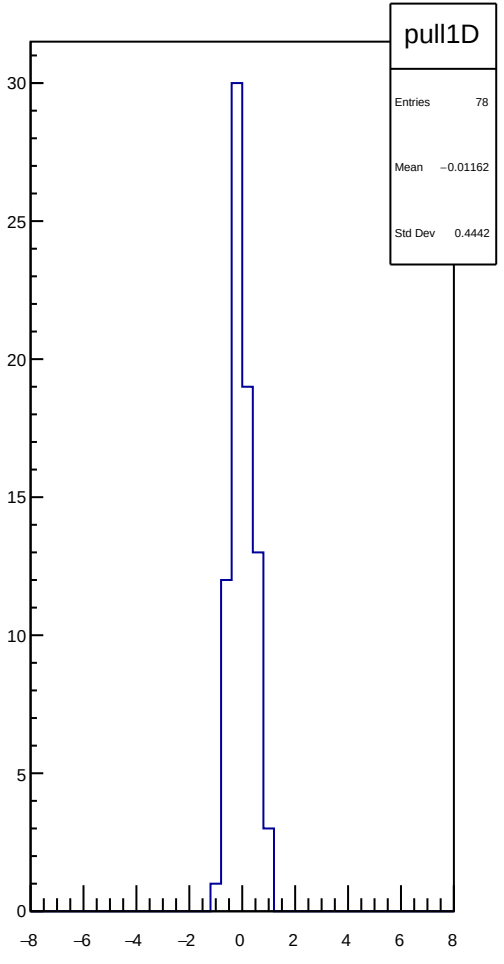

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 4.562 / 77
p0 −22.92 ± 2.477
pull
Entries 78
Mean −1.339e+04
Std Dev 1.343e+04
pull1D
Entries 78
Mean −0.0002635
Std Dev 0.2418

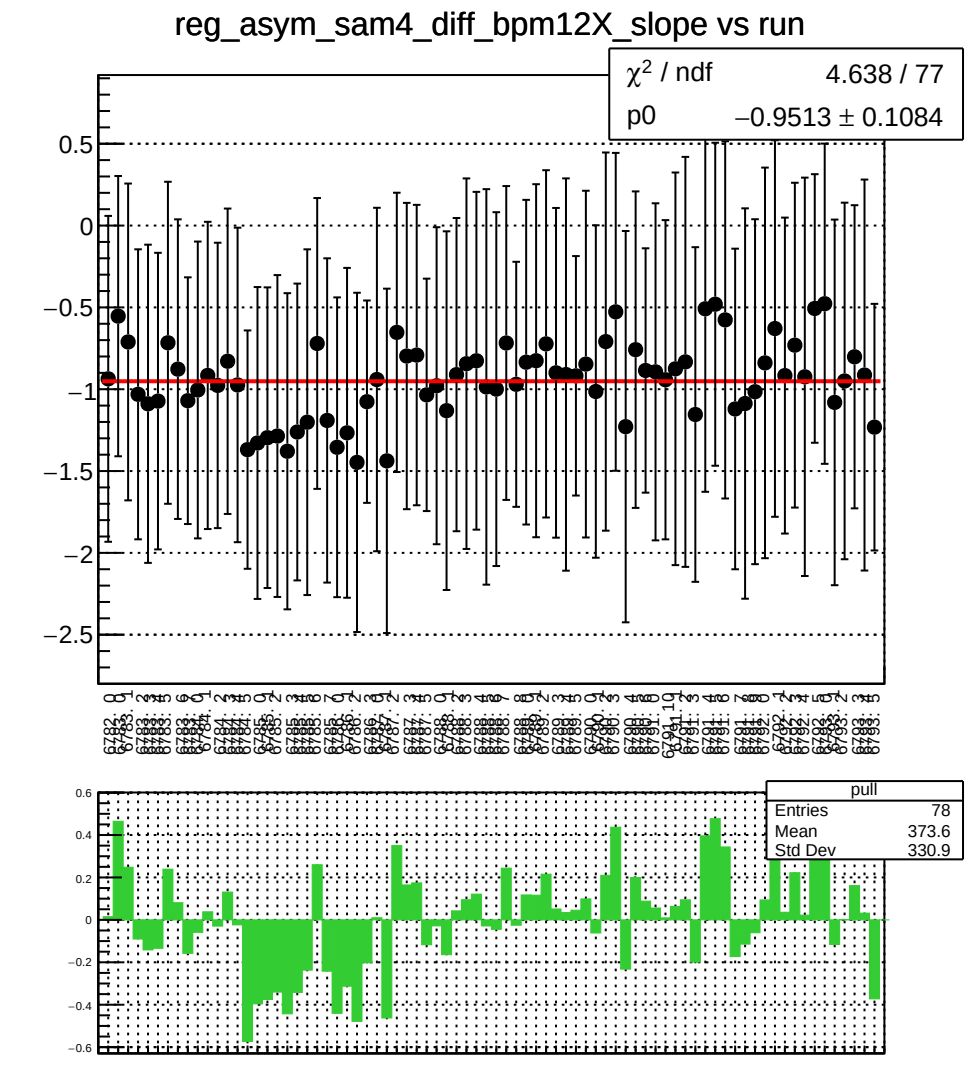

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 11.52 / 77
p0 12.03 ± 1.185
pull
Entries 78
Mean 1222
Std Dev 1186
pull1D
Entries 78
Mean 0.002433
Std Dev 0.3843

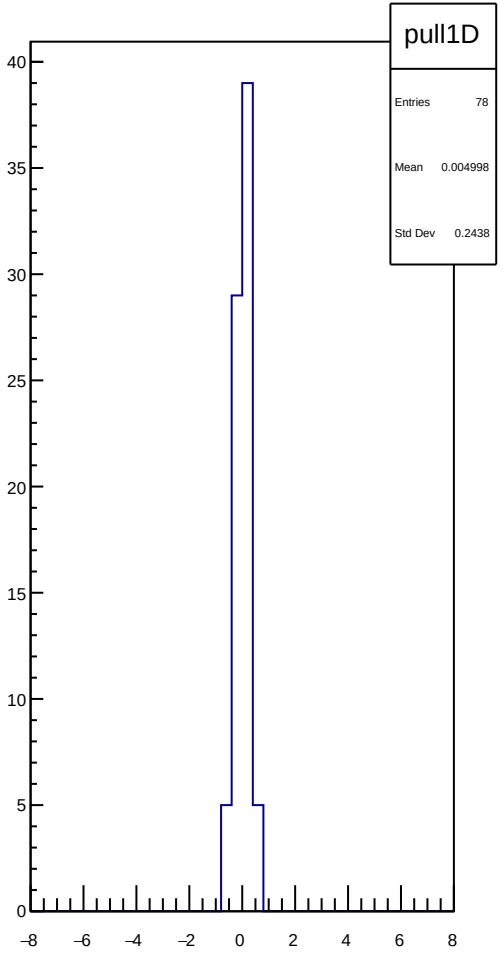

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 8.142 / 77
p0 −156.2 ± 2.314
pull
Entries 78
Mean 5581
Std Dev 5543

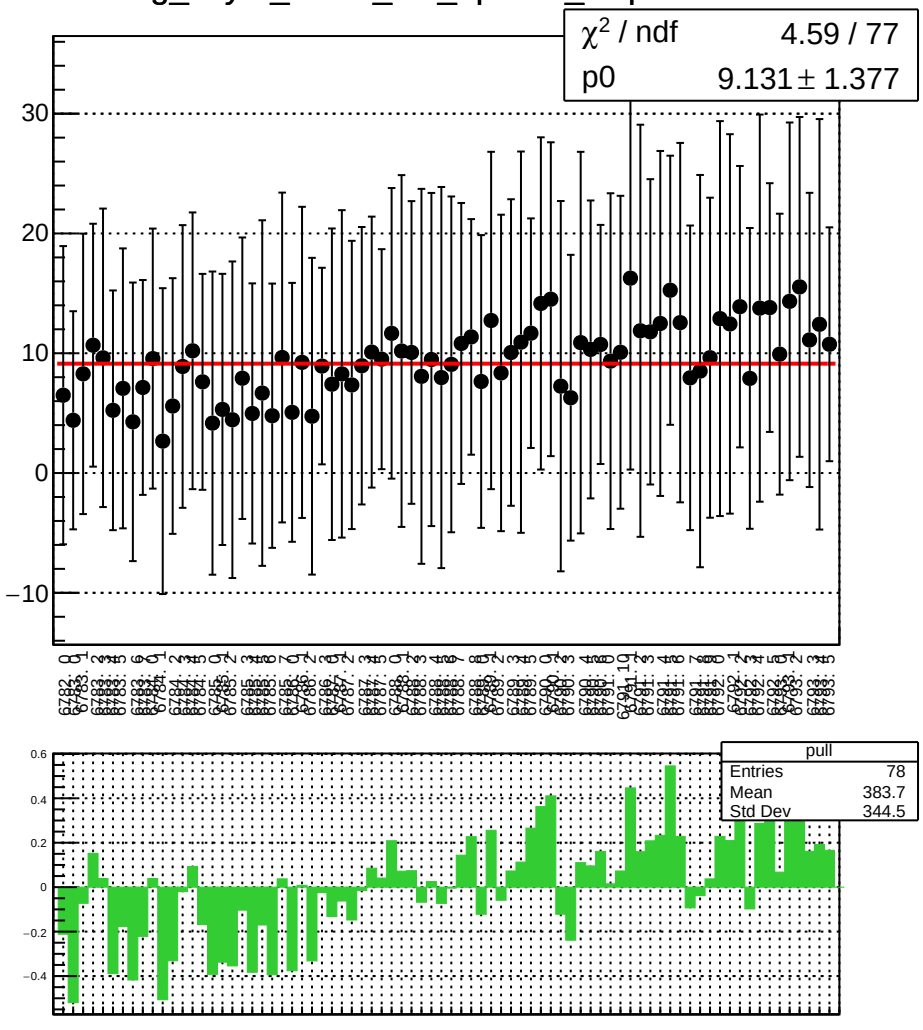

pull1D
Entries 78
Mean −0.0008804
Std Dev 0.3231

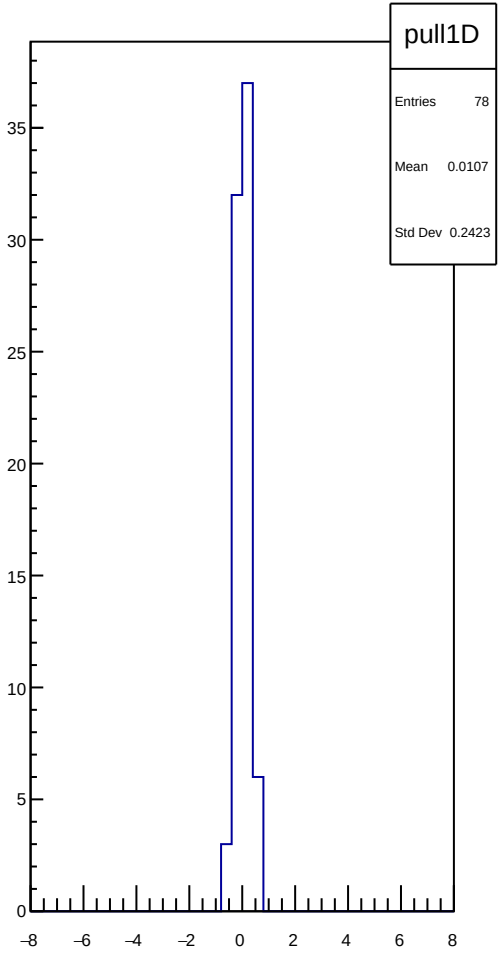

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 15.4 / 77
p0 205.1 ± 1.624
pull
Entries 78
Mean 111.4
Std Dev 78.72

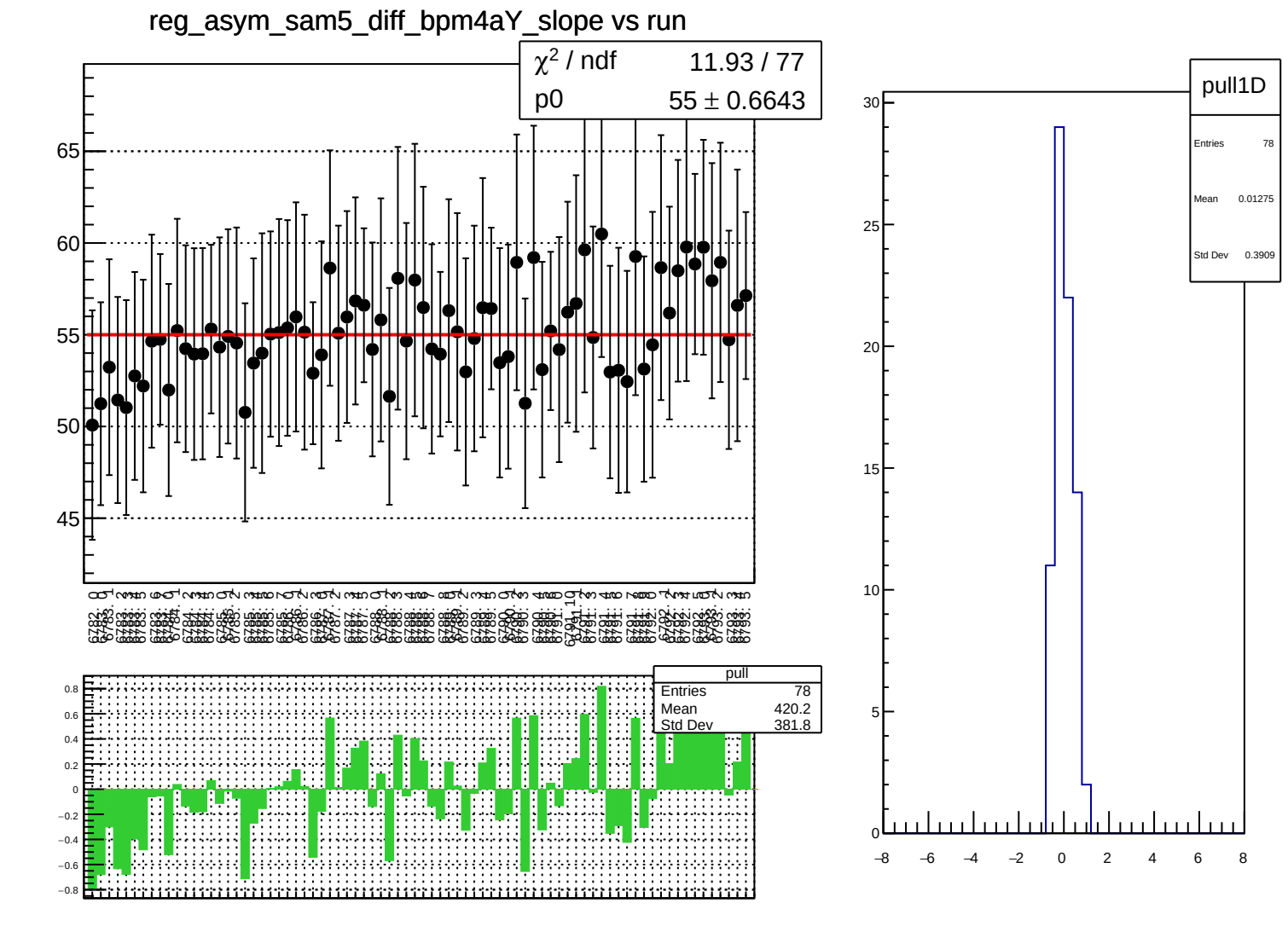

pull1D
Entries 78
Mean −0.01162
Std Dev 0.4442

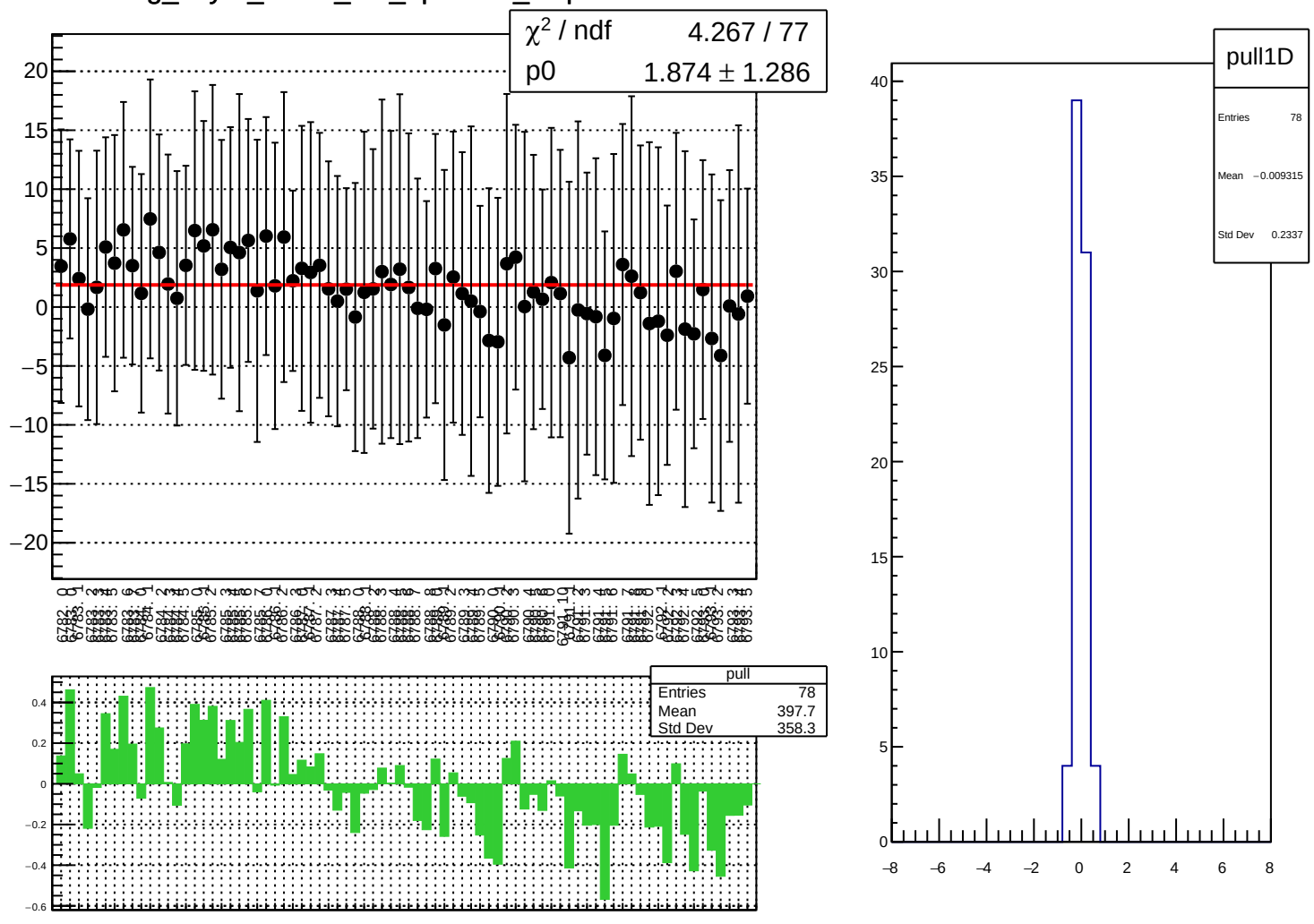

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 4.638 / 77
p0 −0.9513 ± 0.1084
pull
Entries 78
Mean 373.6
Std Dev 330.9

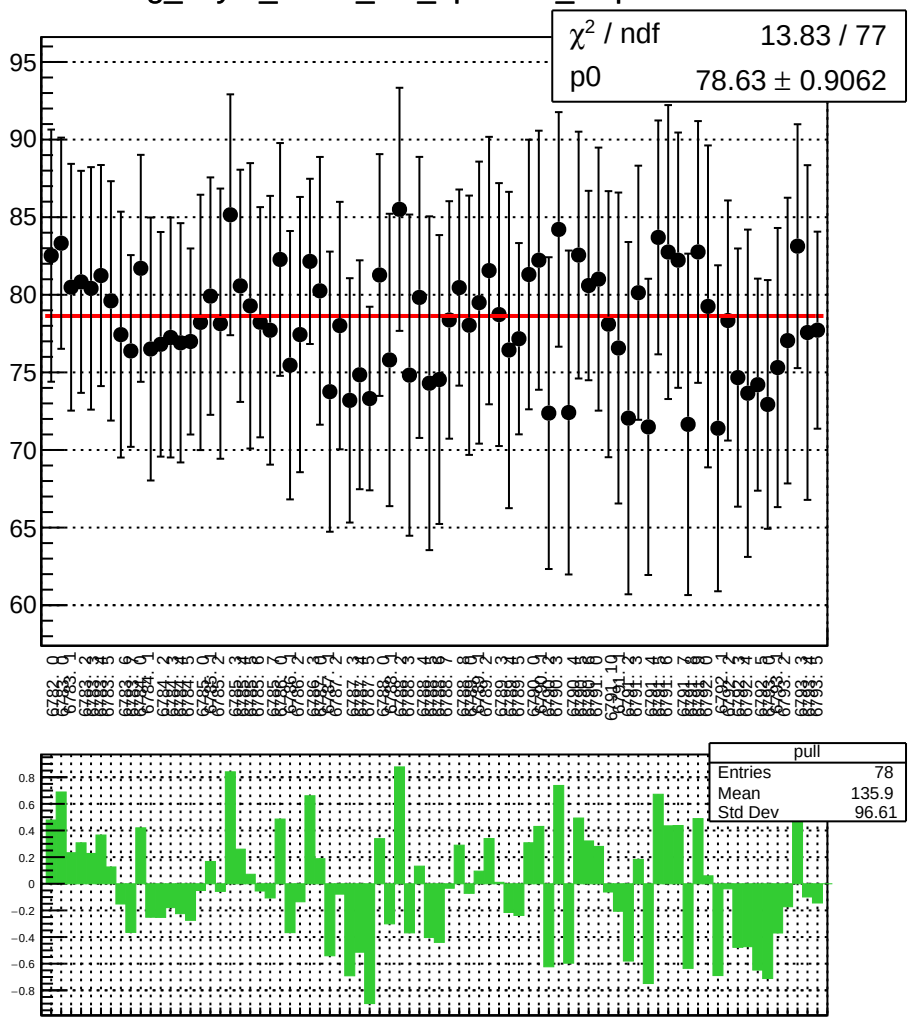

pull1D
Entries 78
Mean 0.004998
Std Dev 0.2438

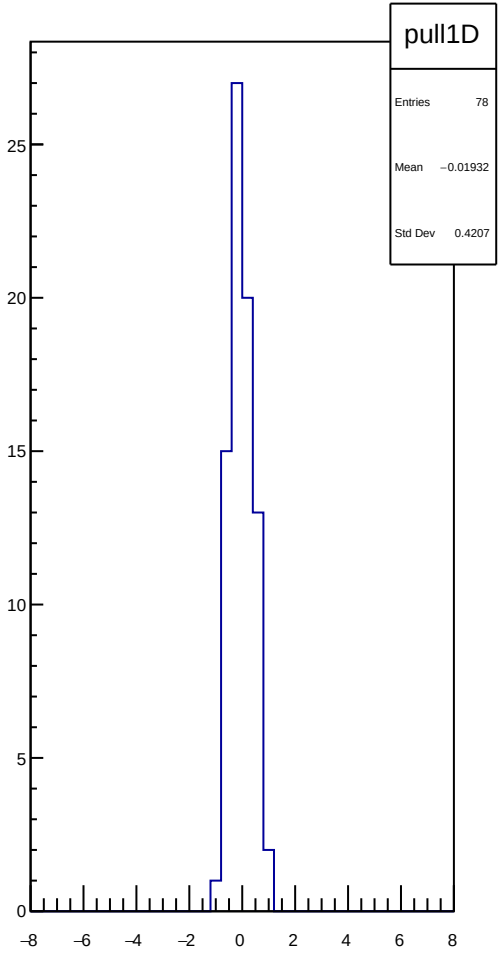

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 4.59 / 77
p0 9.131 ± 1.377
pull
Entries 78
Mean 383.7
Std Dev 344.5

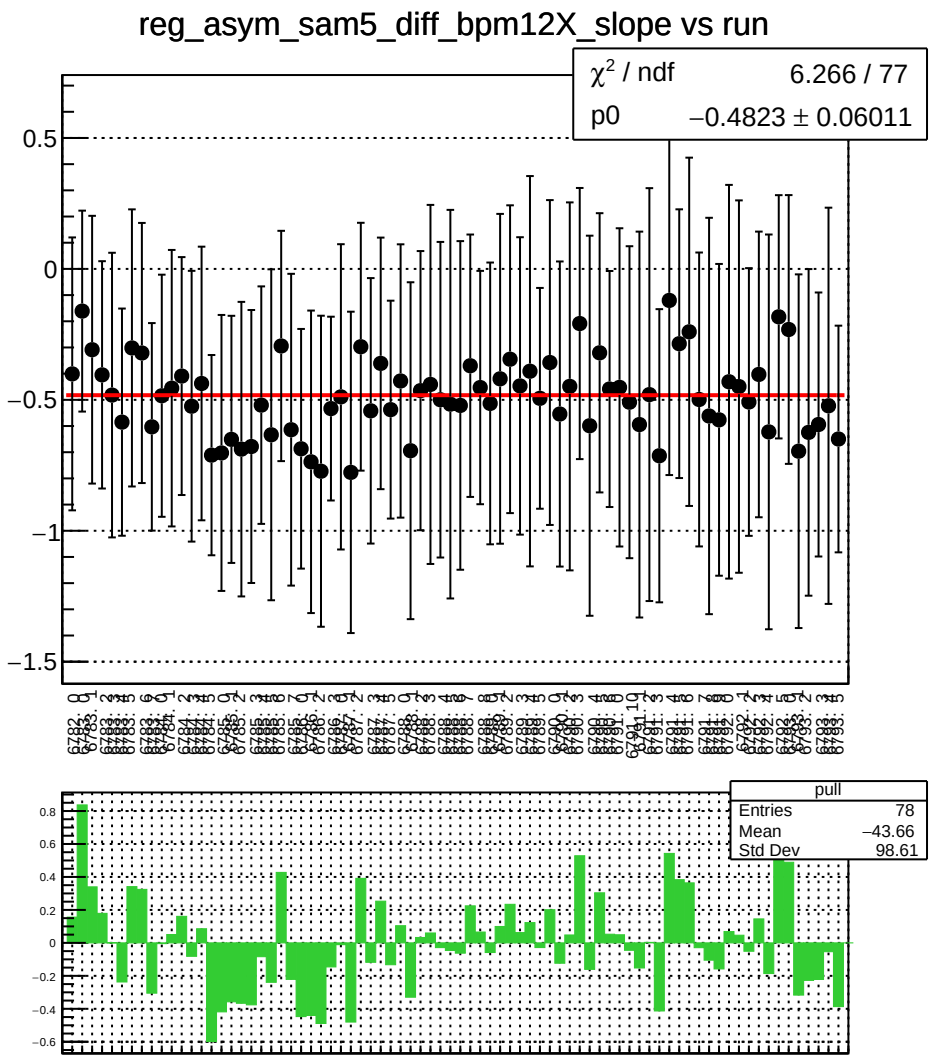

pull1D
Entries 78
Mean 0.0107
Std Dev 0.2423

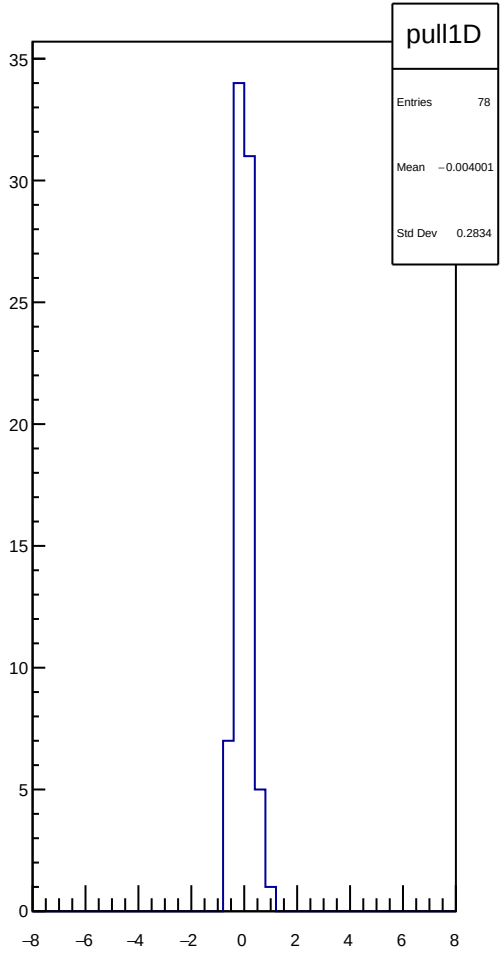

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 11.93 / 77
p0 55 ± 0.6643
pull
Entries 78
Mean 420.2
Std Dev 381.8
pull1D
Entries 78
Mean 0.01275
Std Dev 0.3909

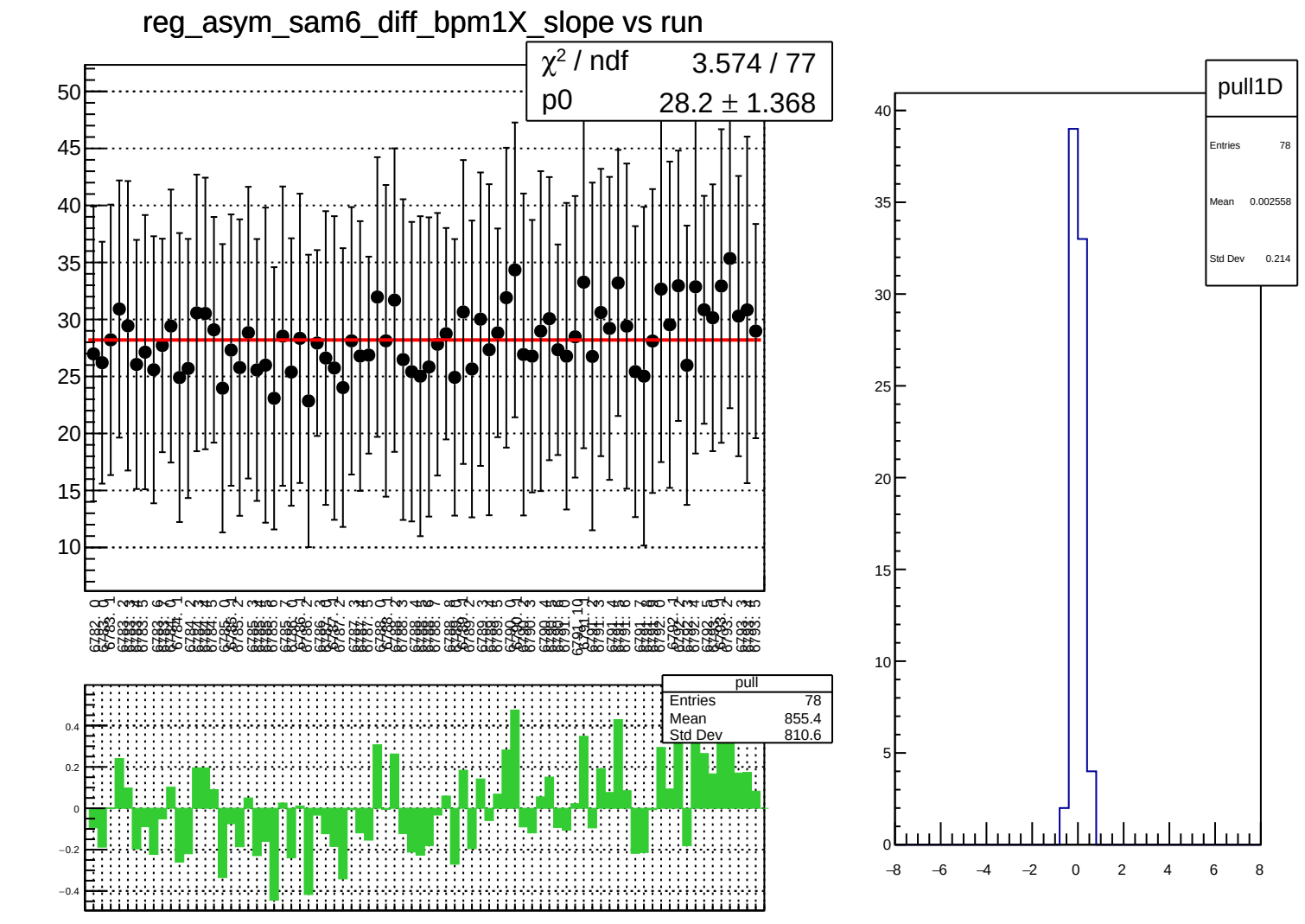

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 4.267 / 77
p0 1.874 ± 1.286
pull
Entries 78
Mean 397.7
Std Dev 358.3
pull1D
Entries 78
Mean −0.009315
Std Dev 0.2337

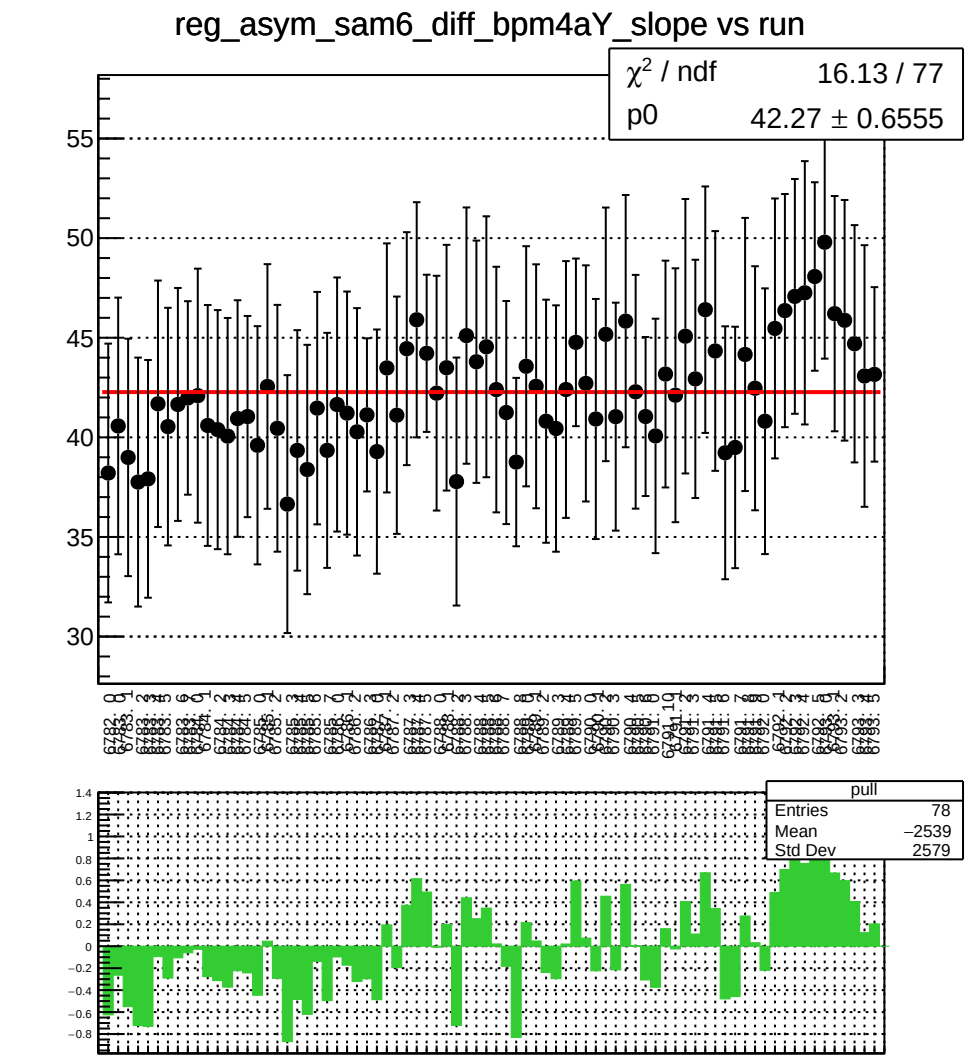

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 13.83 / 77
p0 78.63 ± 0.9062
pull
Entries 78
Mean 135.9
Std Dev 96.61

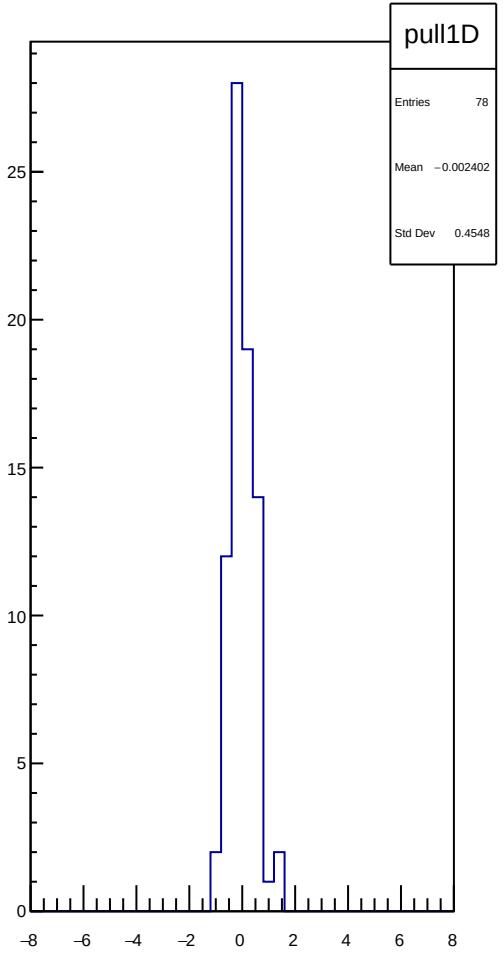

pull1D
Entries 78
Mean −0.01932
Std Dev 0.4207

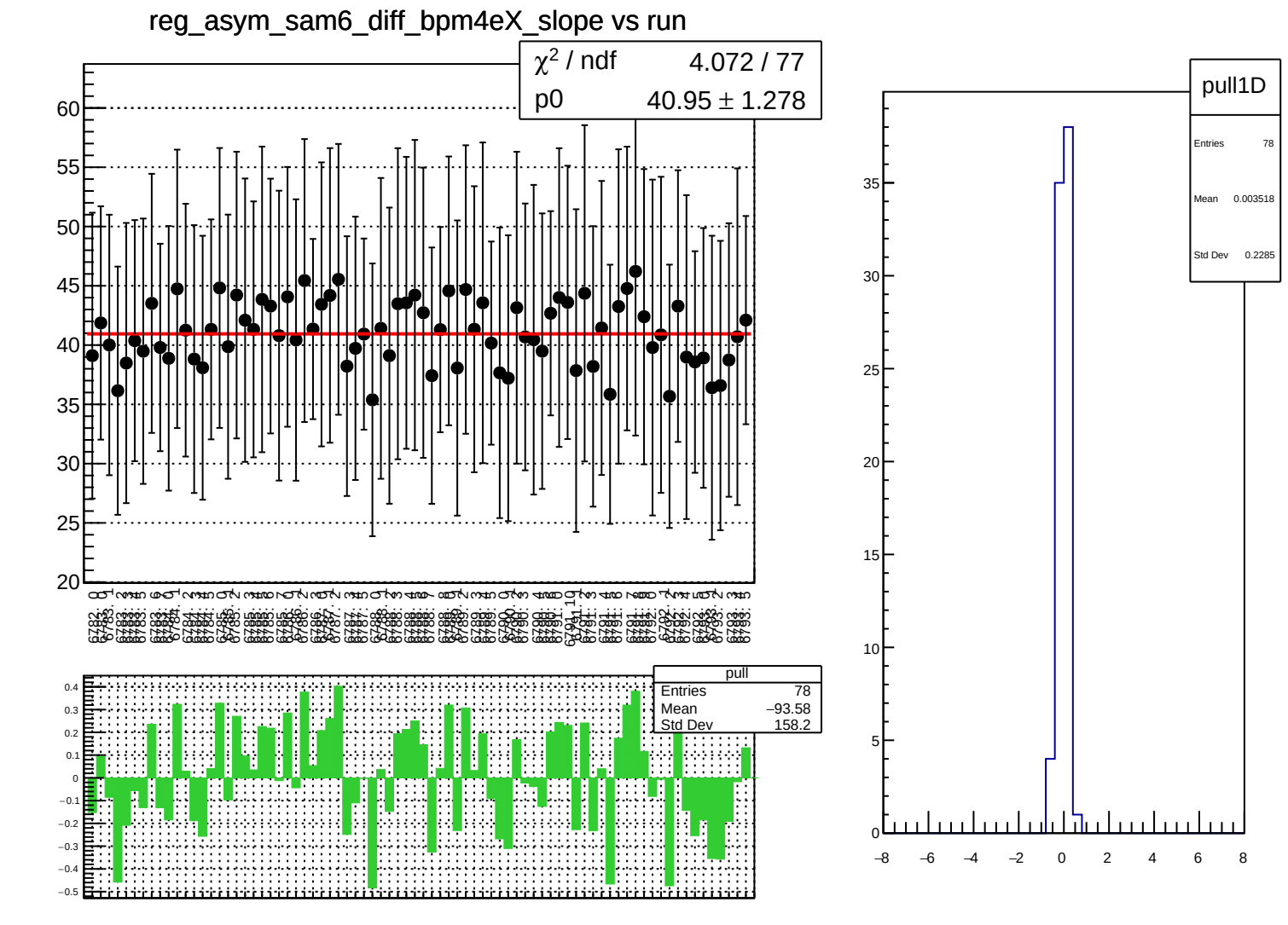

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 6.266 / 77
p0 −0.4823 ± 0.06011
pull
Entries 78
Mean −43.66
Std Dev 98.61

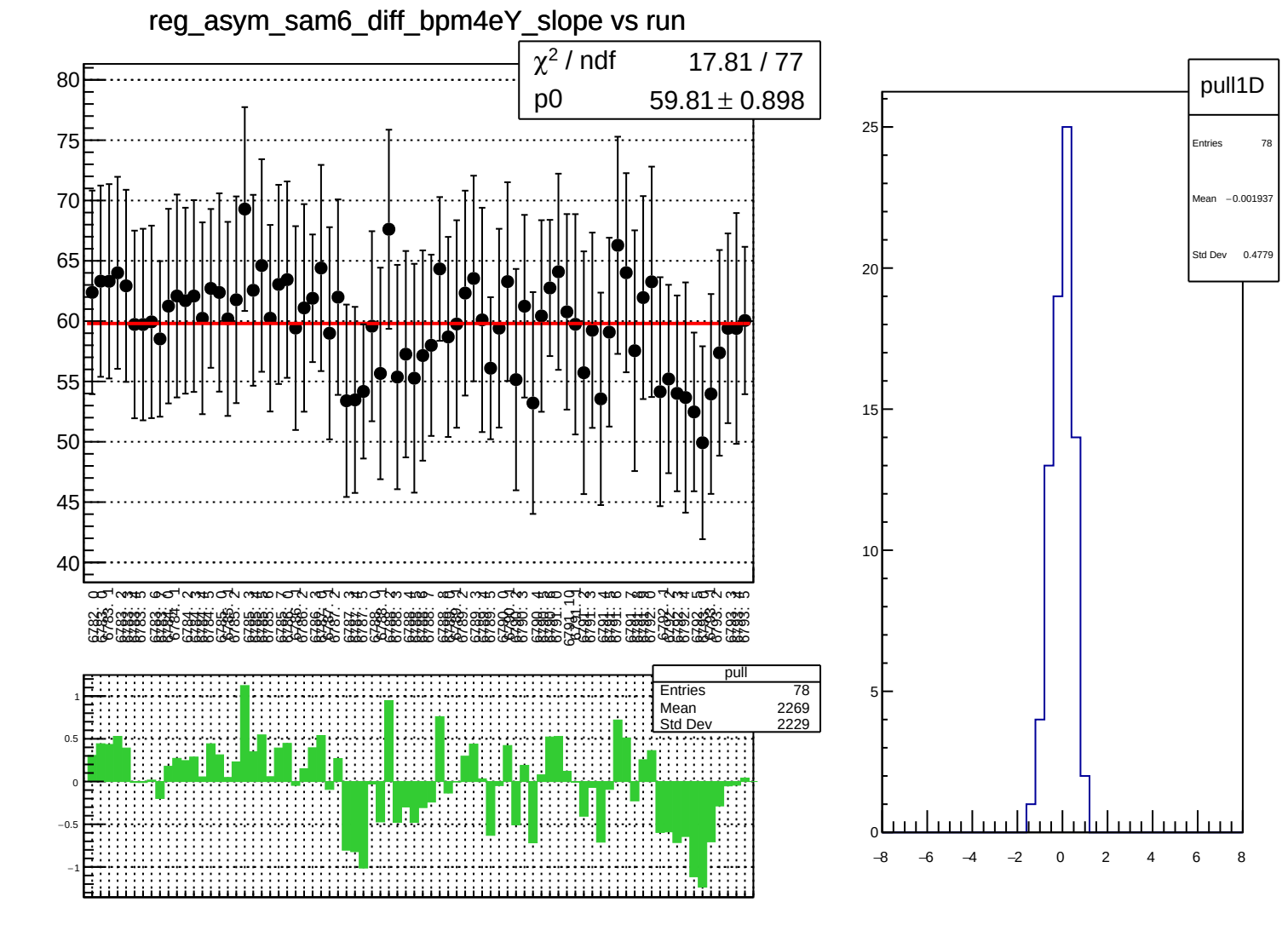

pull1D
Entries 78
Mean −0.004001
Std Dev 0.2834

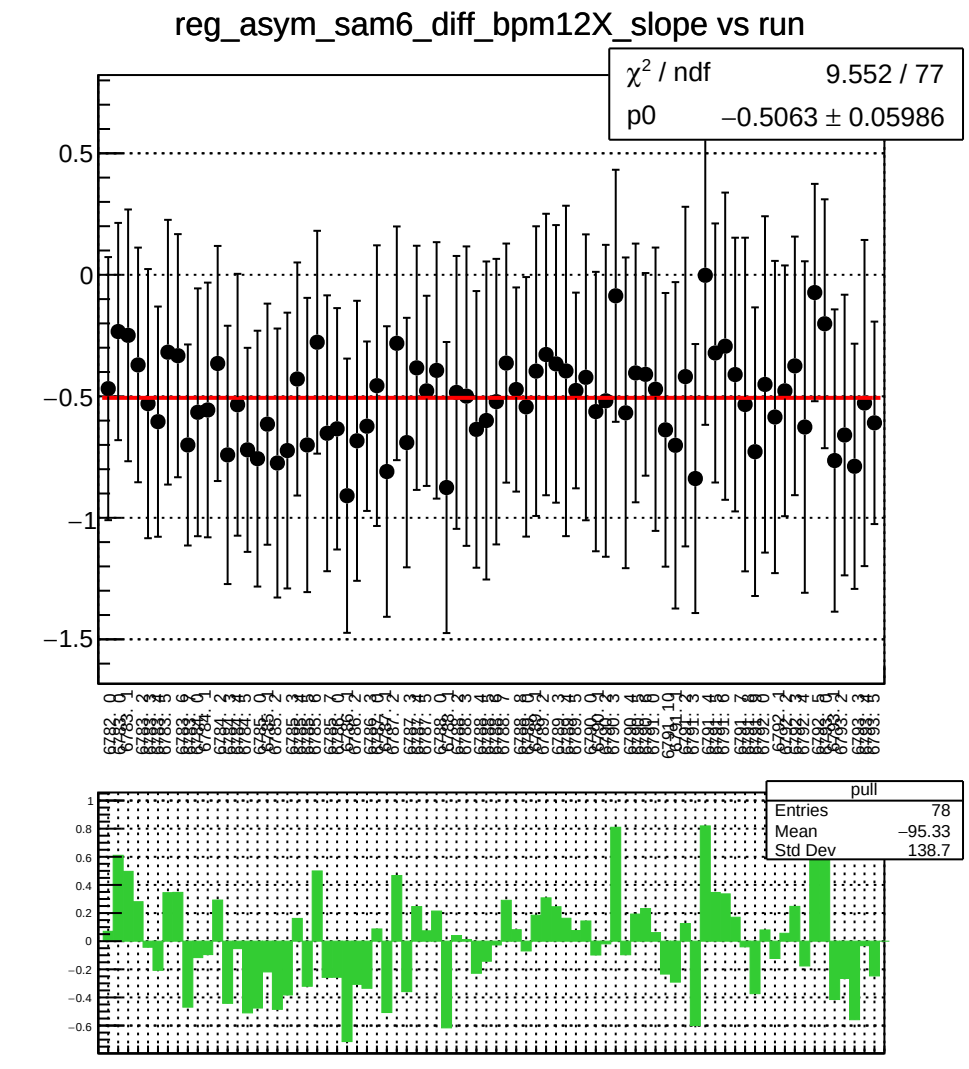

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 3.574 / 77
p0 28.2 ± 1.368
pull
Entries 78
Mean 855.4
Std Dev 810.6
pull1D
Entries 78
Mean 0.002558
Std Dev 0.214

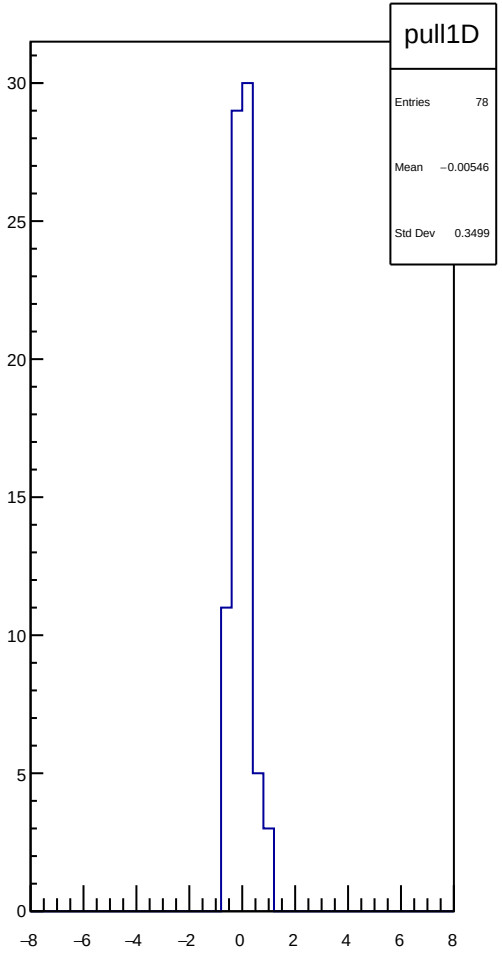

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 16.13 / 77
p0 42.27 ± 0.6555
pull
Entries 78
Mean −2539
Std Dev 2579

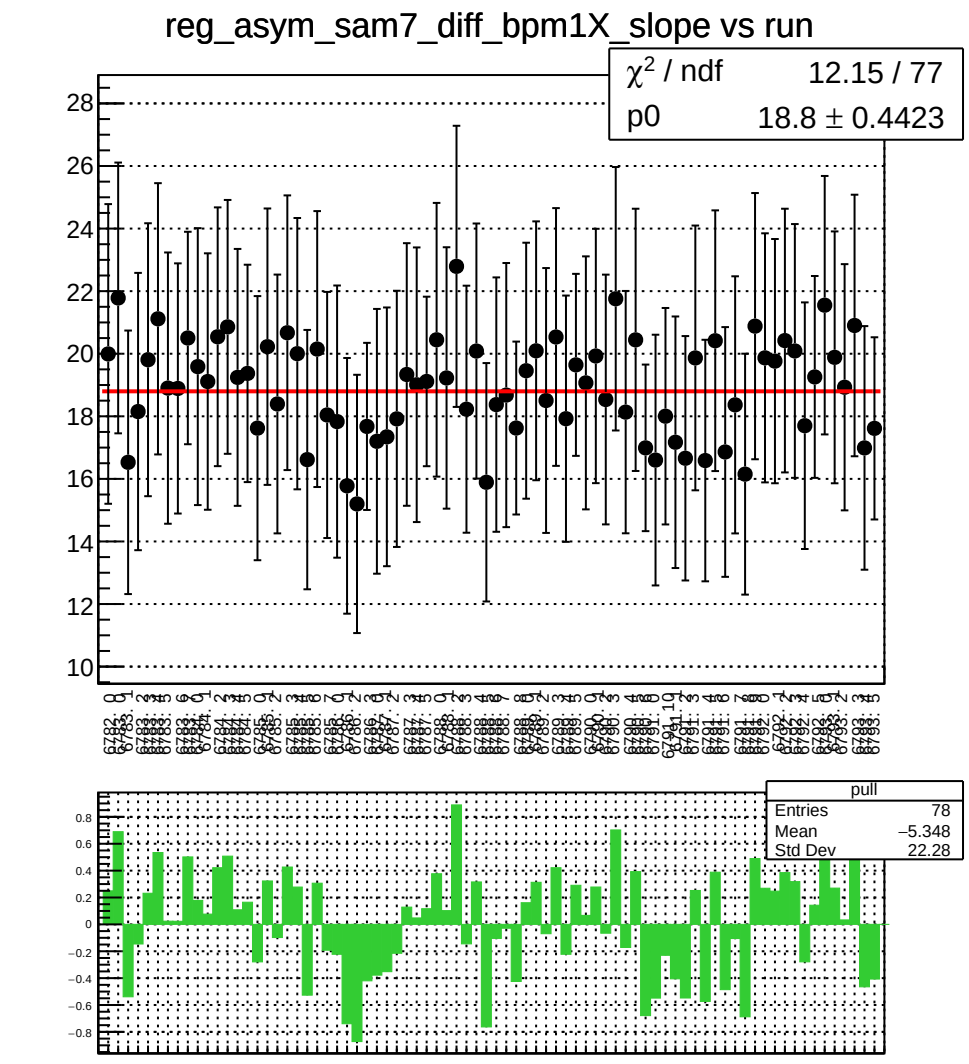

pull1D
Entries 78
Mean −0.002402
Std Dev 0.4548

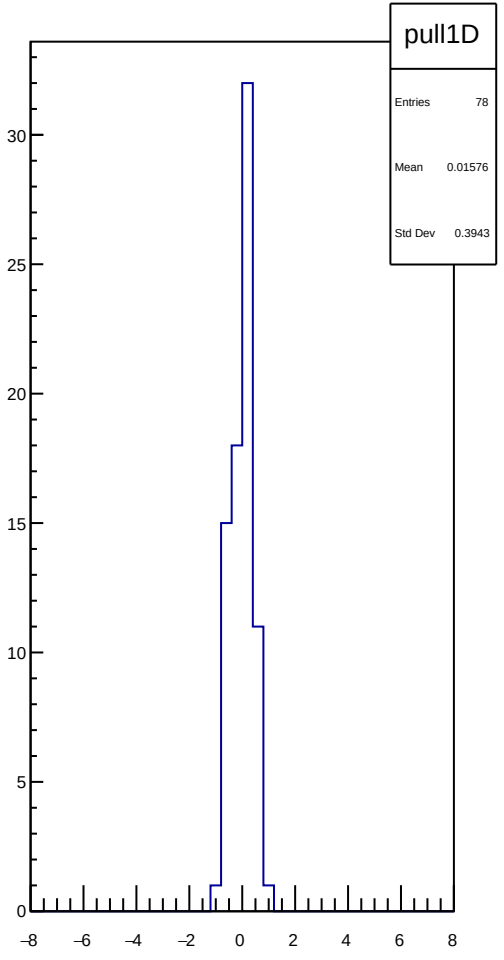

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 4.072 / 77
p0 40.95 ± 1.278
pull
Entries 78
Mean −93.58
Std Dev 158.2
pull1D
Entries 78
Mean 0.003518
Std Dev 0.2285

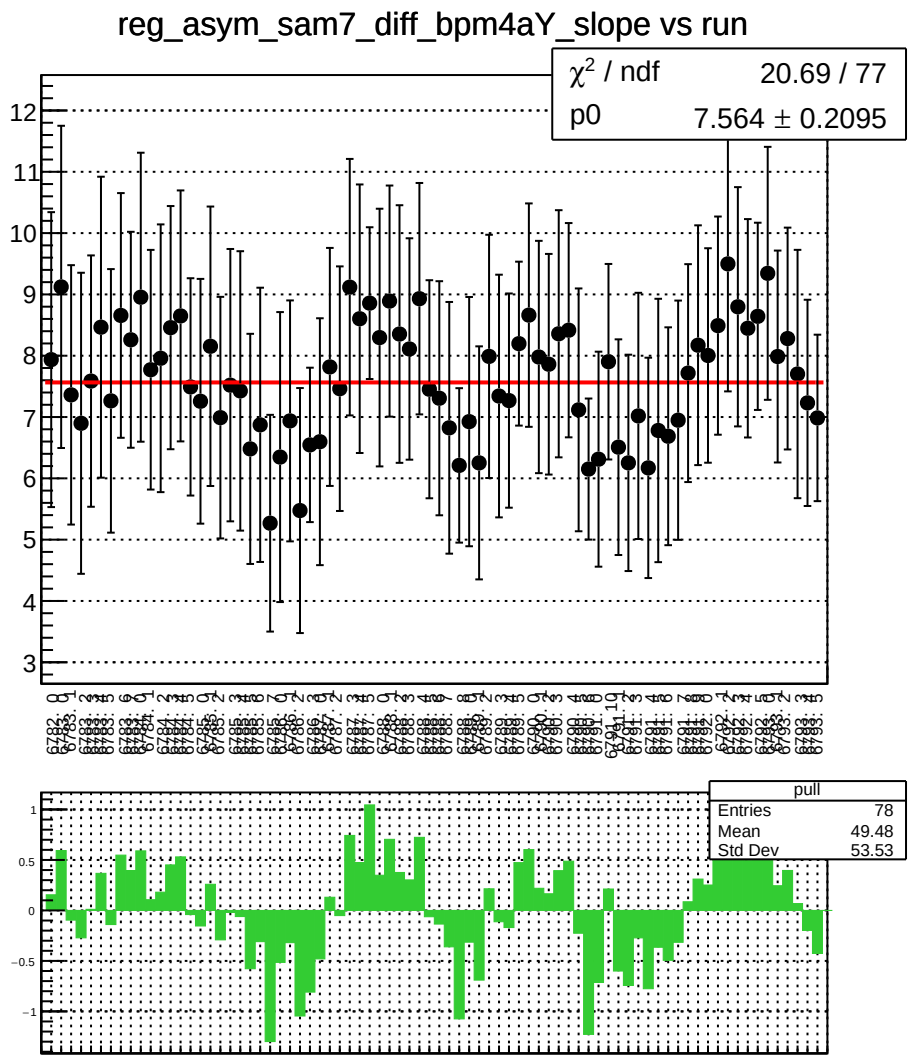

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 17.81 / 77
p0 59.81 ± 0.898
pull
Entries 78
Mean 2269
Std Dev 2229
pull1D
Entries 78
Mean −0.001937
Std Dev 0.4779

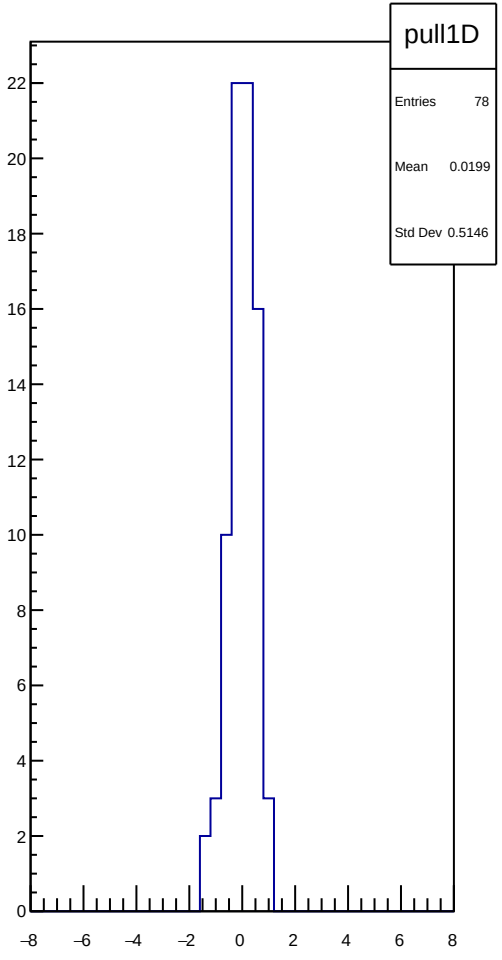

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 9.552 / 77
p0 −0.5063 ± 0.05986
pull
Entries 78
Mean −95.33
Std Dev 138.7

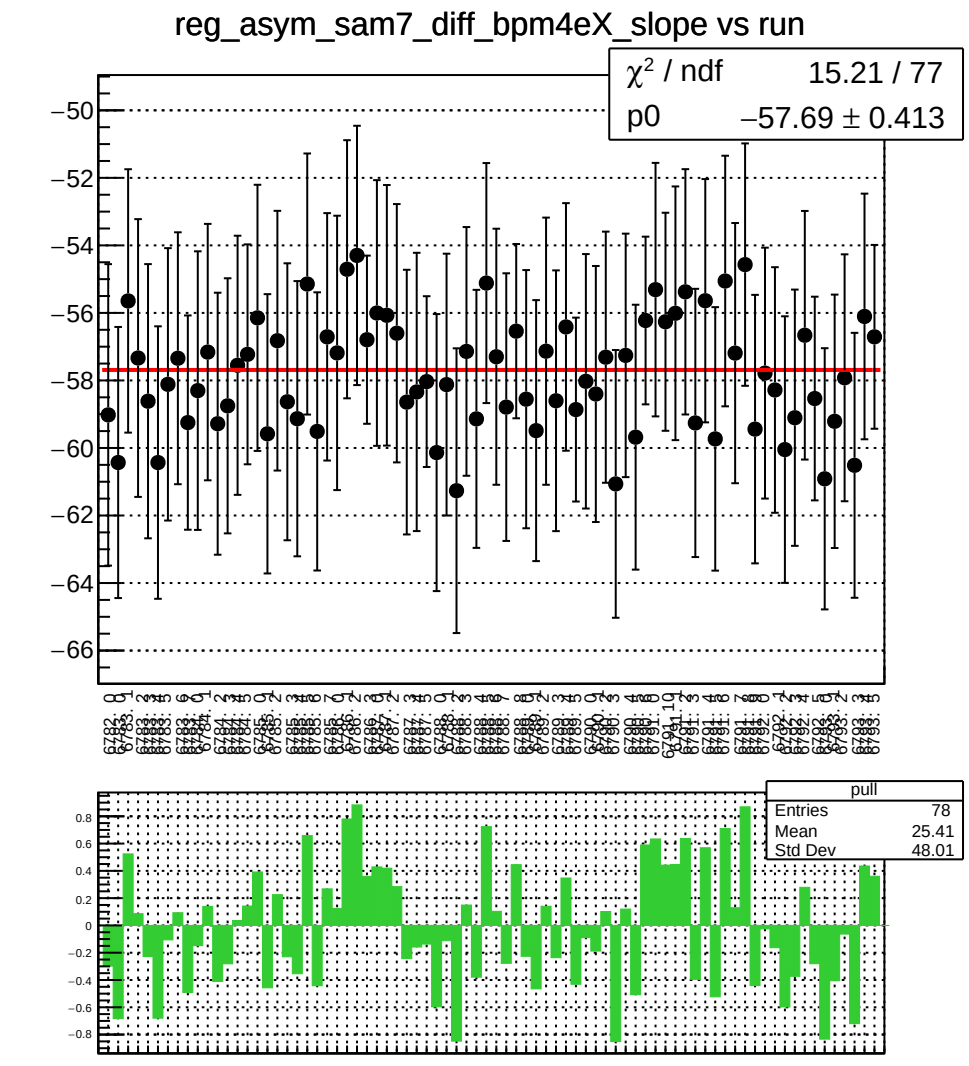

pull1D
Entries 78
Mean −0.00546
Std Dev 0.3499

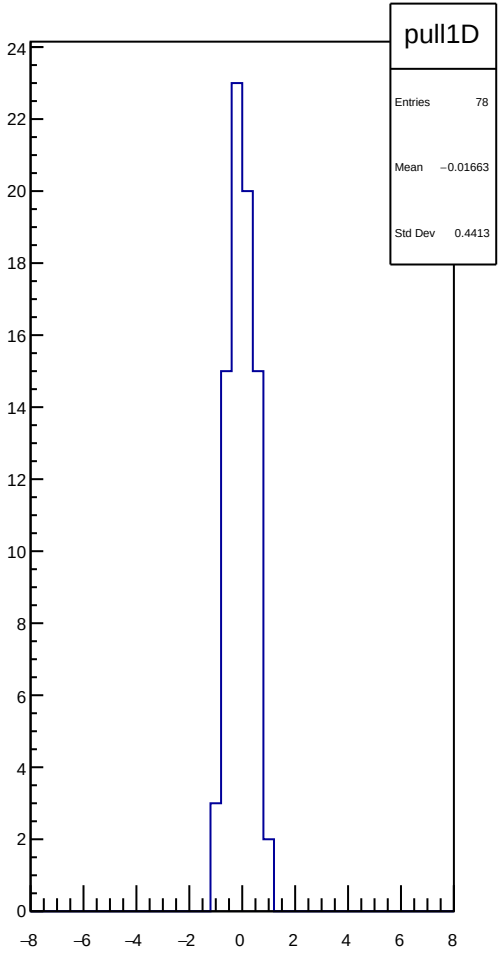

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 12.15 / 77
p0 18.8 ± 0.4423
pull
Entries 78
Mean −5.348
Std Dev 22.28

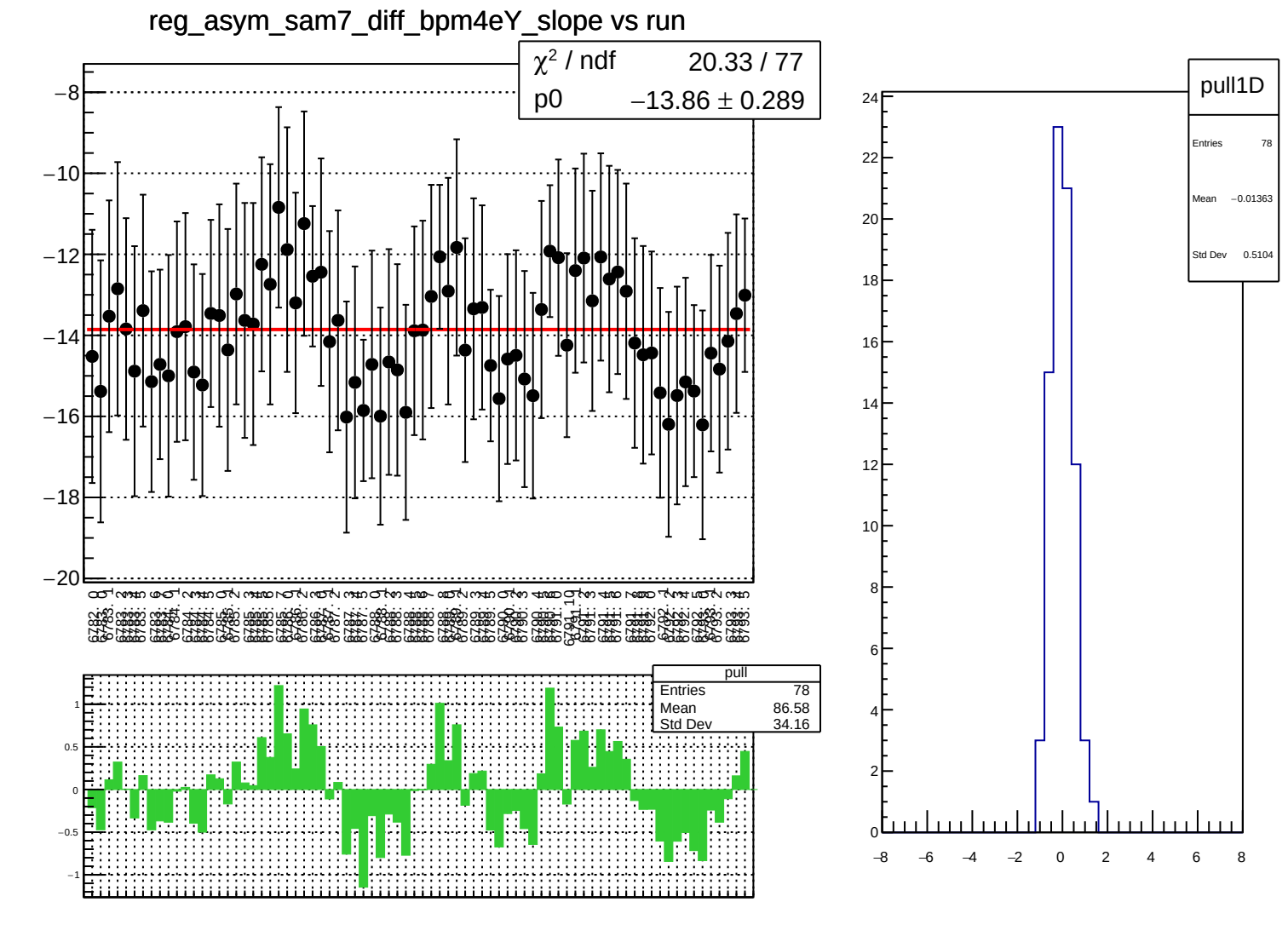

pull1D
Entries 78
Mean 0.01576
Std Dev 0.3943

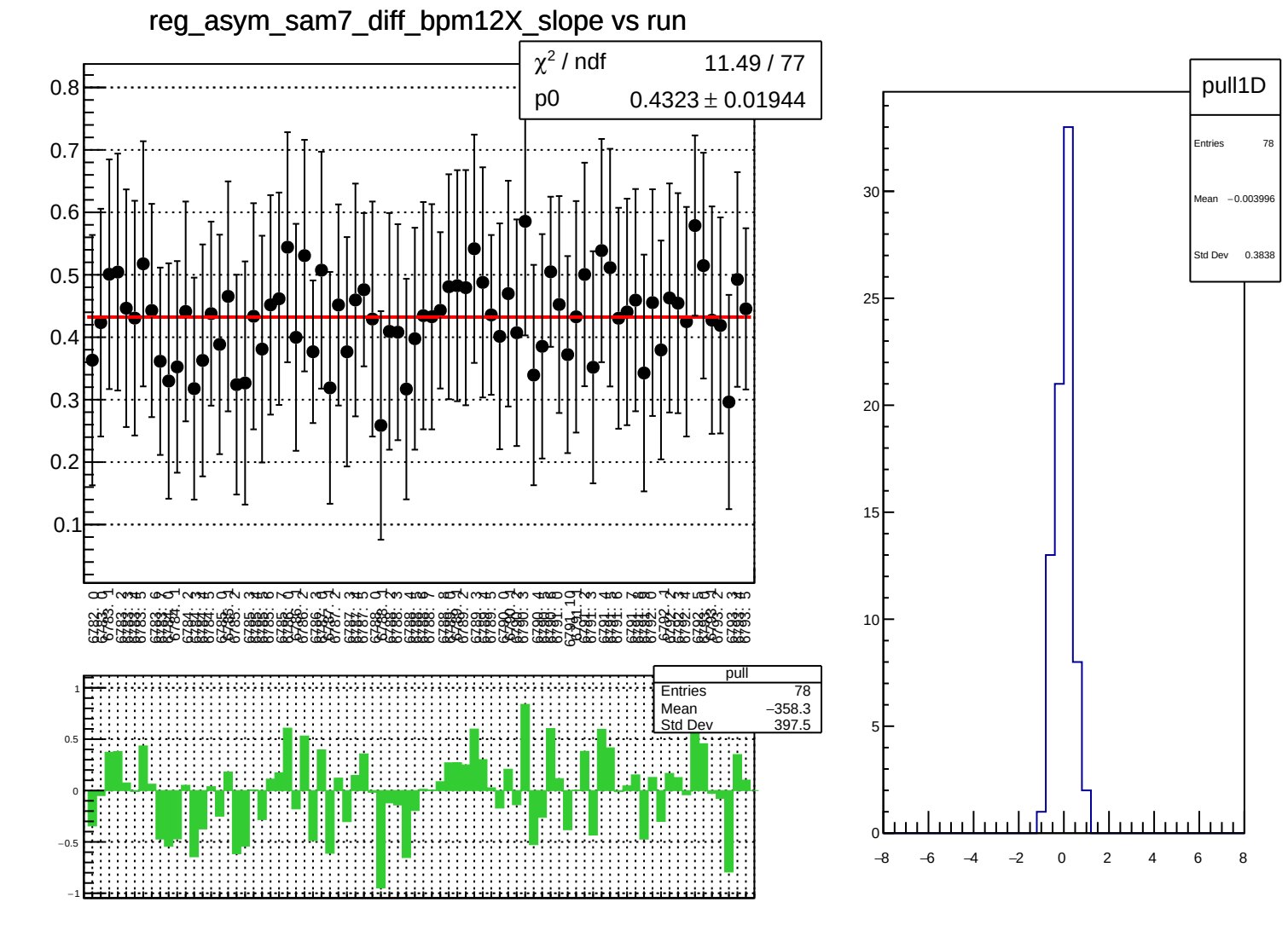

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 20.69 / 77
p0 7.564 ± 0.2095
pull
Entries 78
Mean 49.48
Std Dev 53.53

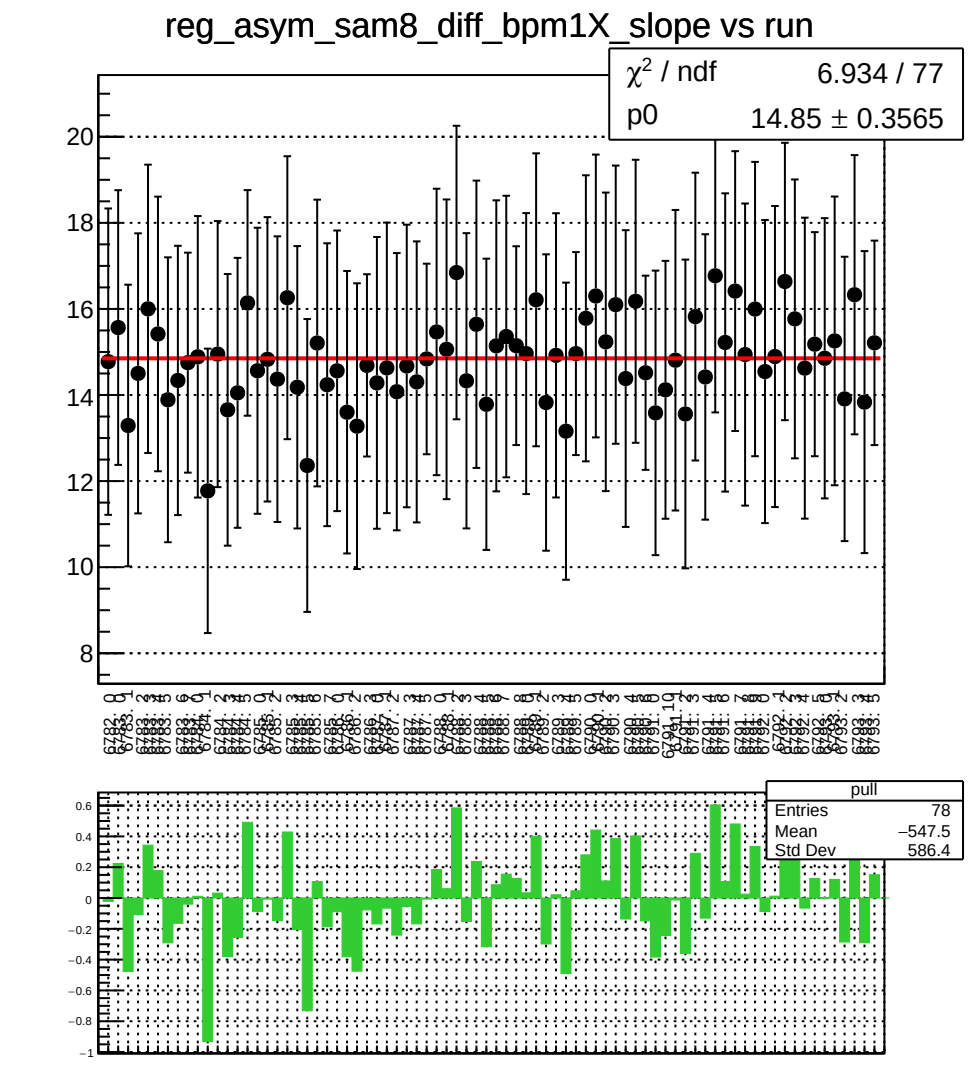

pull1D
Entries 78
Mean 0.0199
Std Dev 0.5146

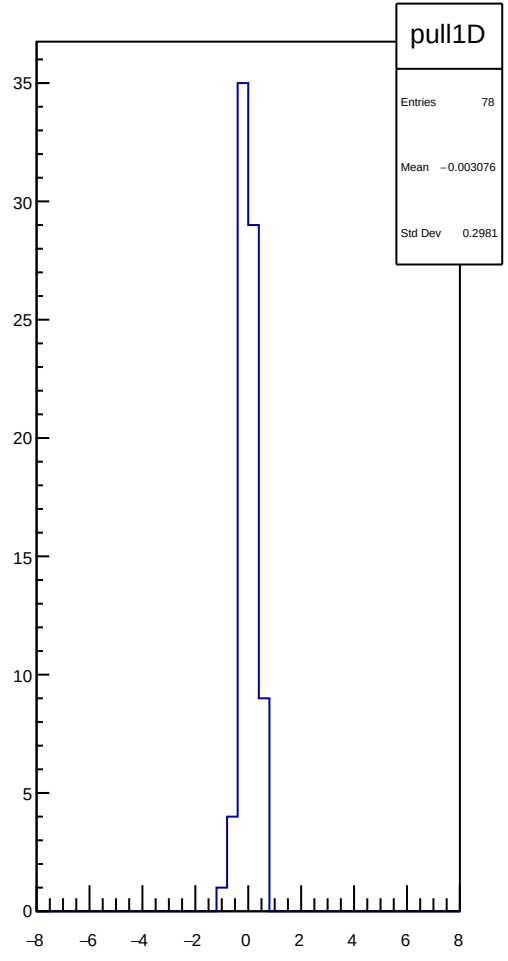

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 15.21 / 77
p0 −57.69 ± 0.413
pull
Entries 78
Mean 25.41
Std Dev 48.01

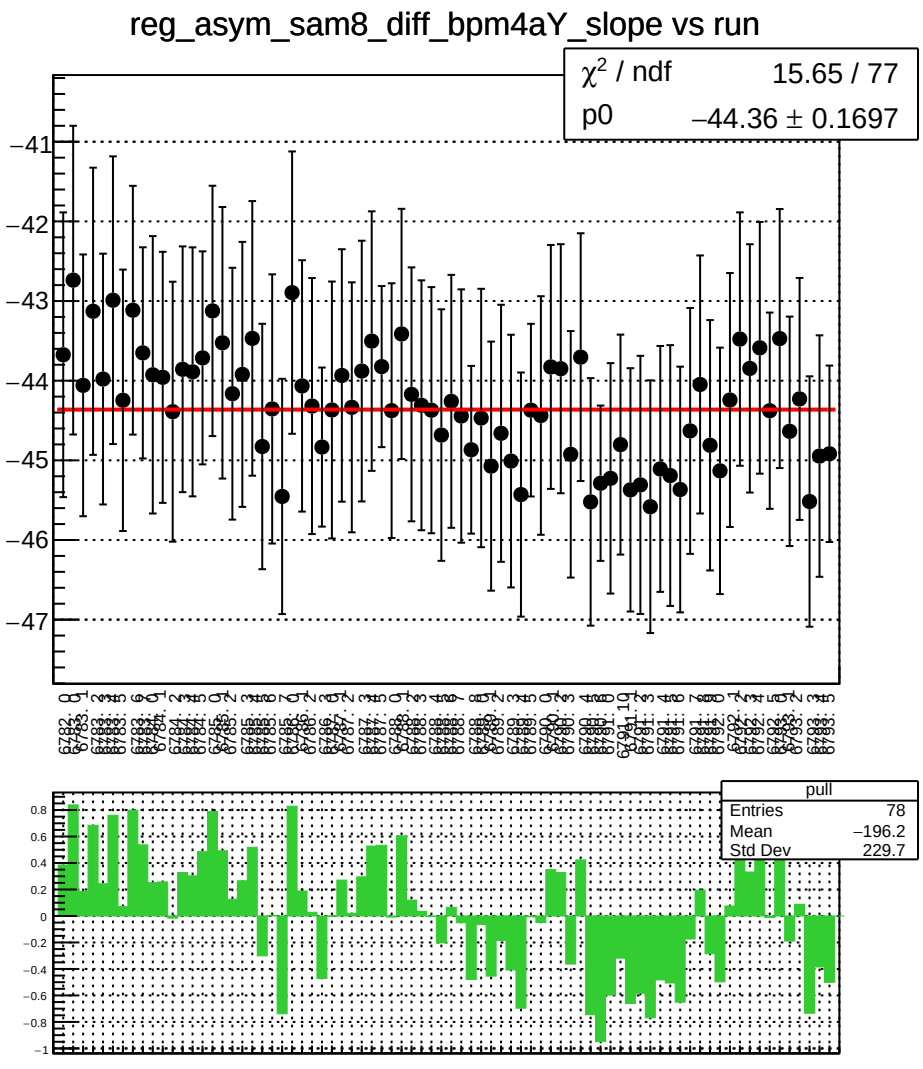

pull1D
Entries 78
Mean −0.01663
Std Dev 0.4413

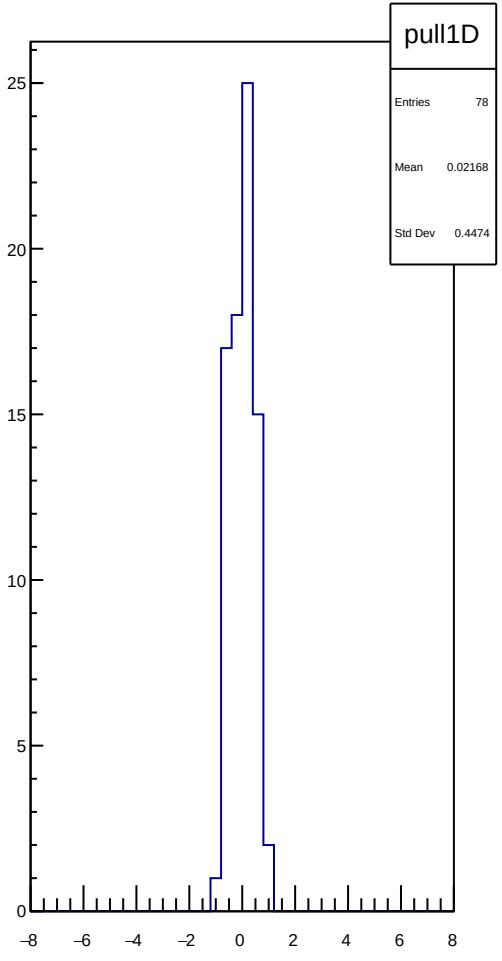

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 20.33 / 77
p0 −13.86 ± 0.289
pull
Entries 78
Mean 86.58
Std Dev 34.16
pull1D
Entries 78
Mean −0.01363
Std Dev 0.5104

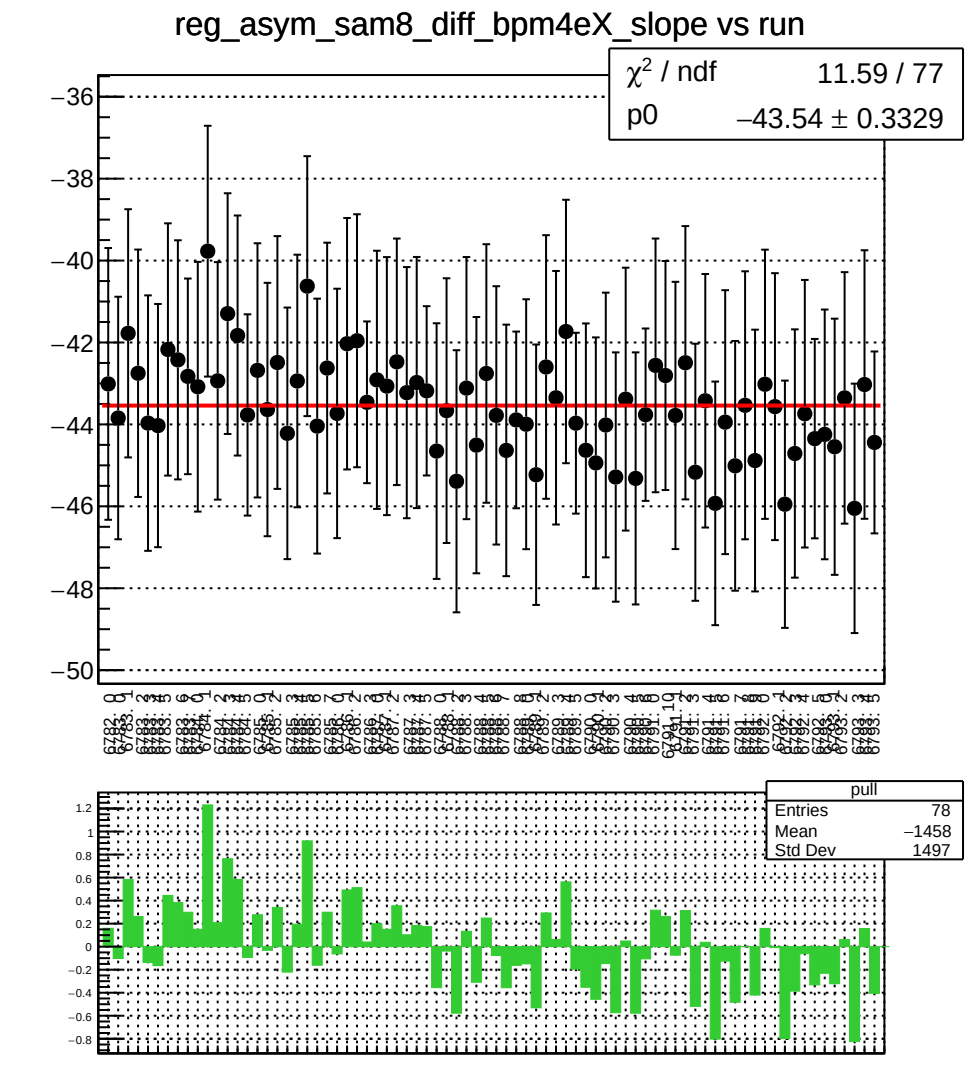

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 11.49 / 77
p0 0.4323 ± 0.01944
pull
Entries 78
Mean −358.3
Std Dev 397.5
pull1D
Entries 78
Mean −0.003996
Std Dev 0.3838

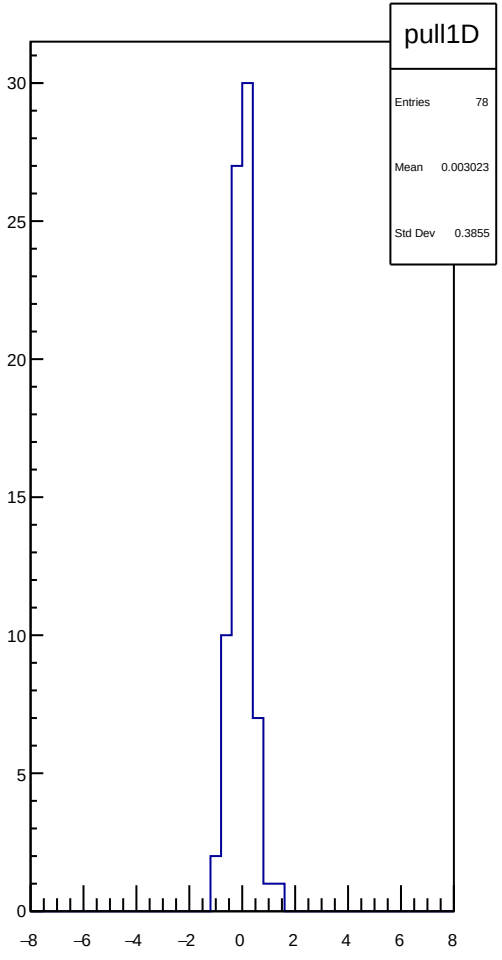

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 6.934 / 77
p0 14.85 ± 0.3565
pull
Entries 78
Mean −547.5
Std Dev 586.4

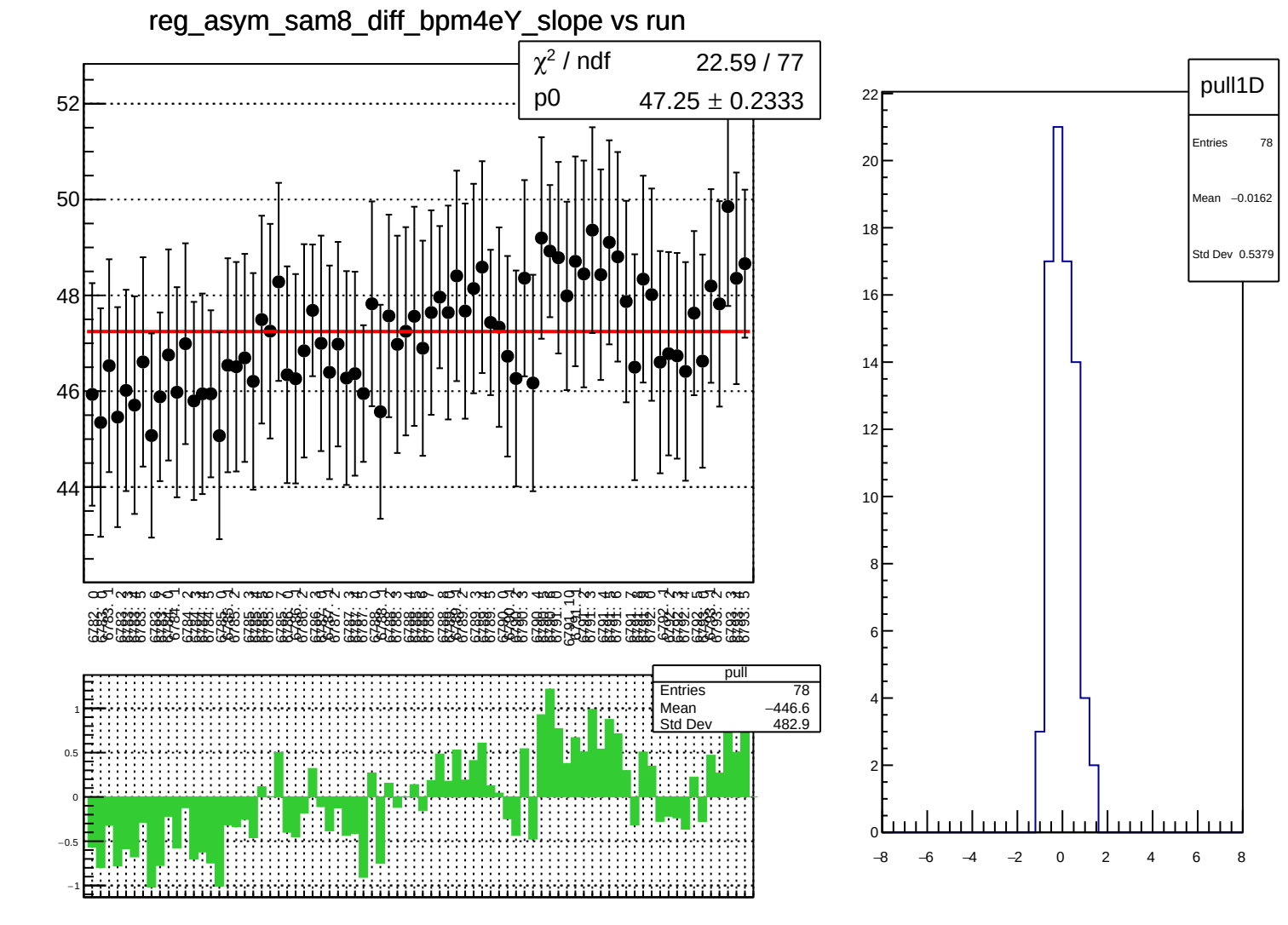

pull1D
Entries 78
Mean −0.003076
Std Dev 0.2981

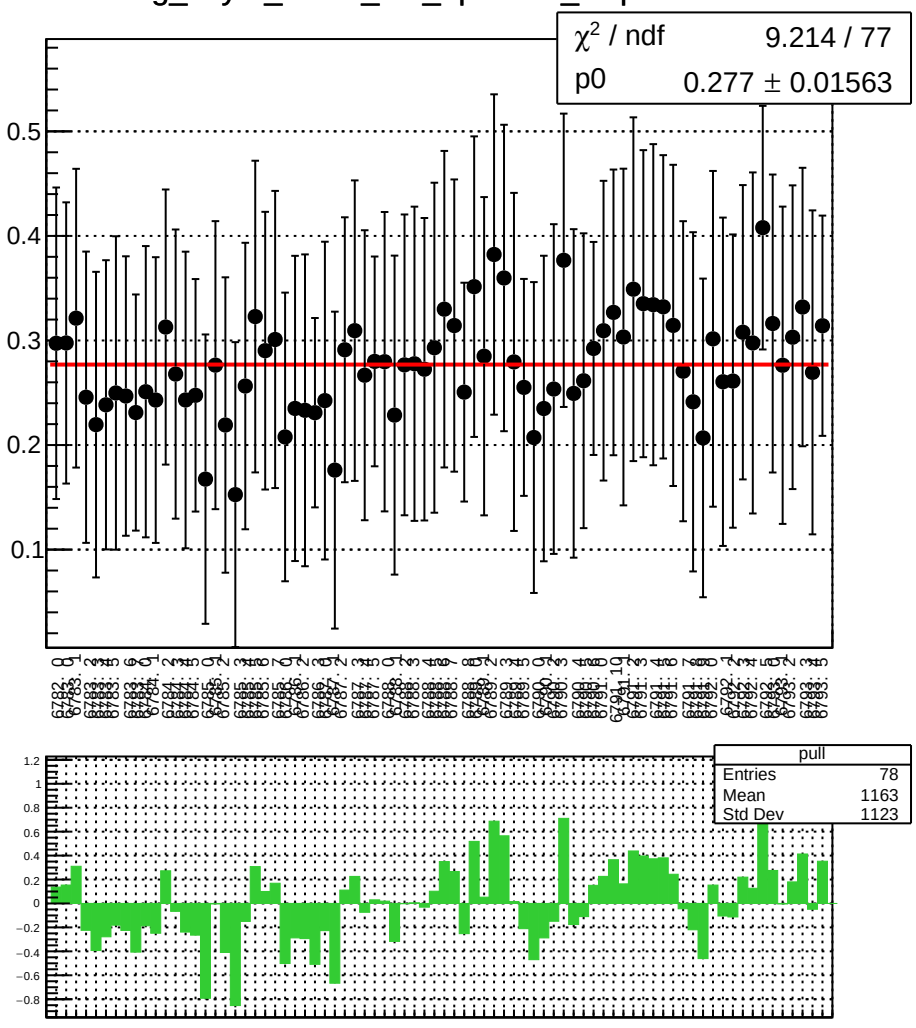

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 15.65 / 77
p0 −44.36 ± 0.1697
pull
Entries 78
Mean −196.2
Std Dev 229.7

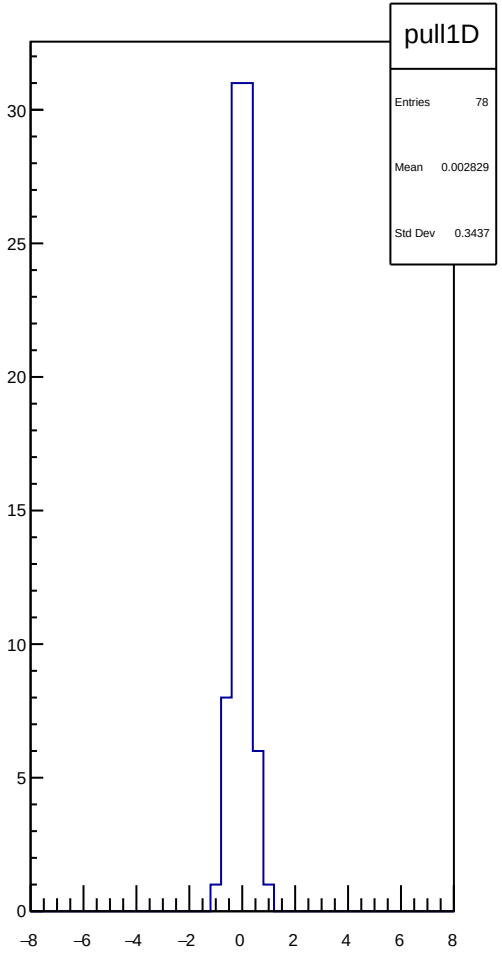

pull1D
Entries 78
Mean 0.02168
Std Dev 0.4474

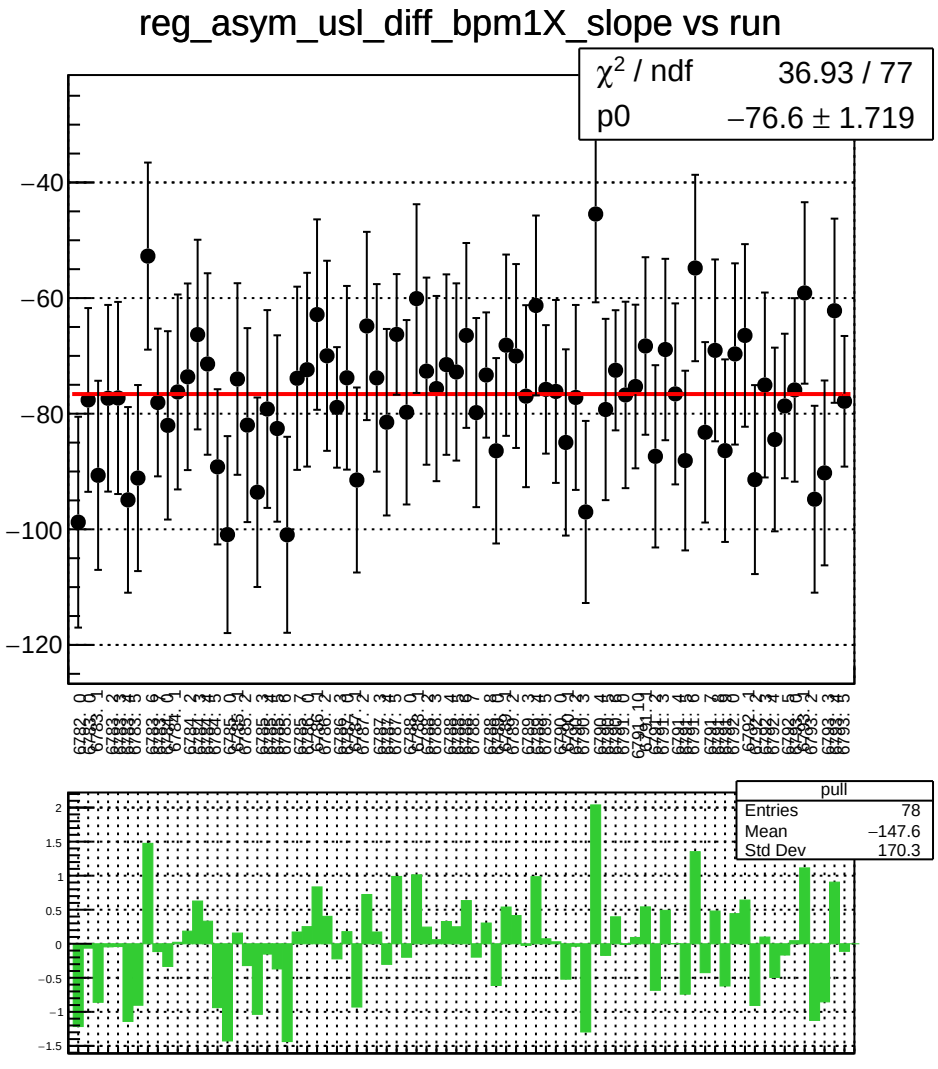

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 11.59 / 77
p0 −43.54 ± 0.3329
pull
Entries 78
Mean −1458
Std Dev 1497

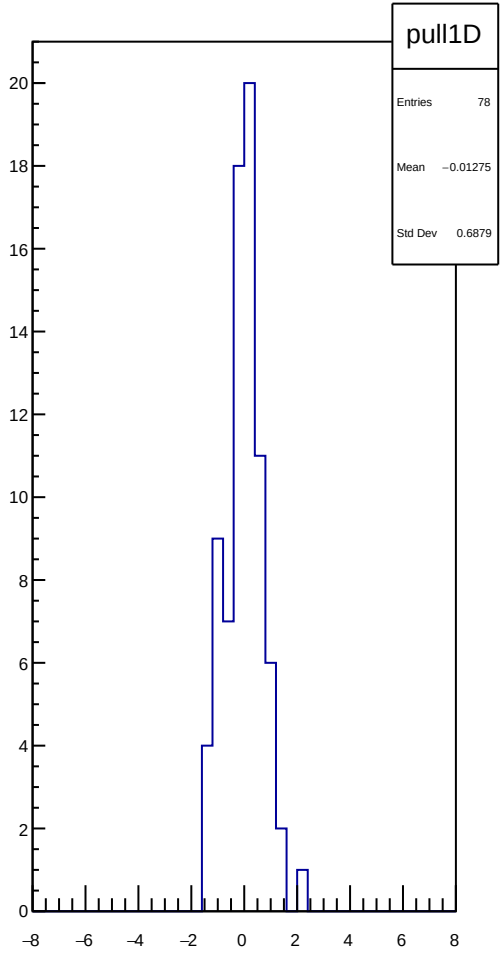

pull1D
Entries 78
Mean 0.003023
Std Dev 0.3855

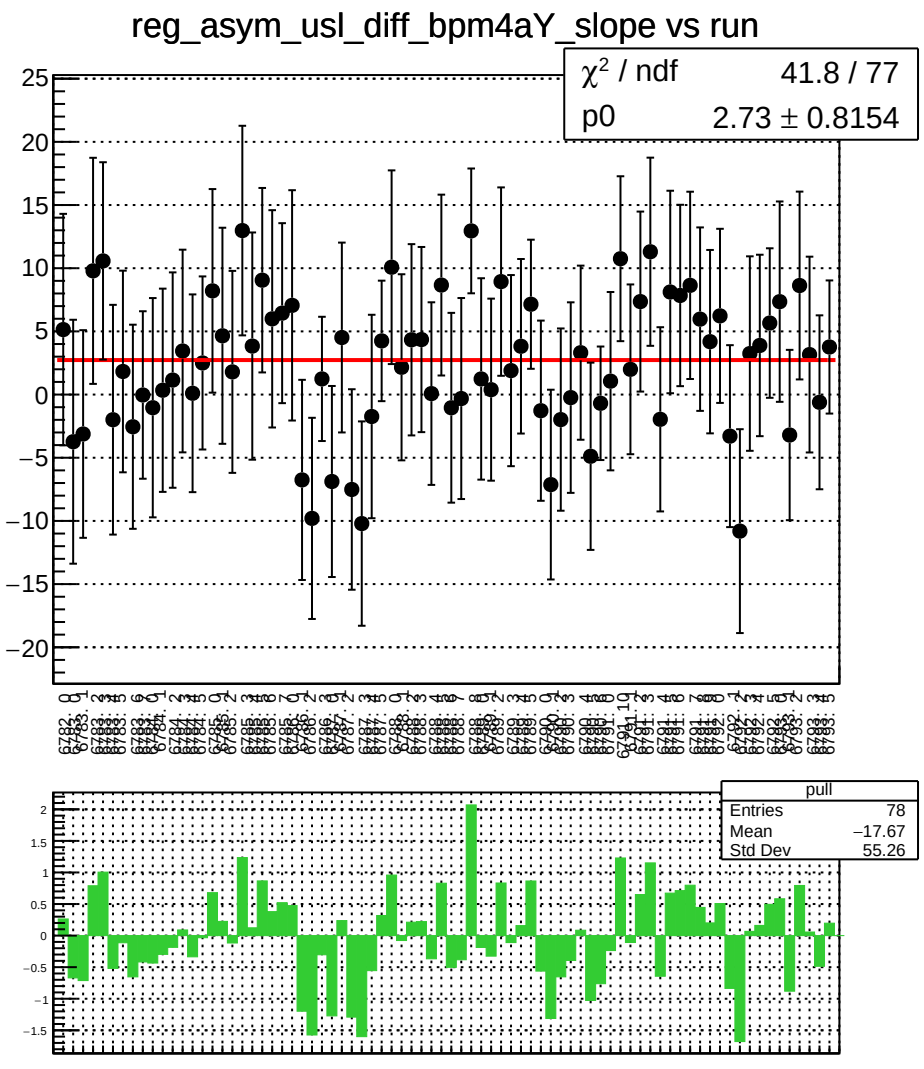

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 22.59 / 77
p0 47.25 ± 0.2333
pull
Entries 78
Mean −446.6
Std Dev 482.9
pull1D
Entries 78
Mean −0.0162
Std Dev 0.5379

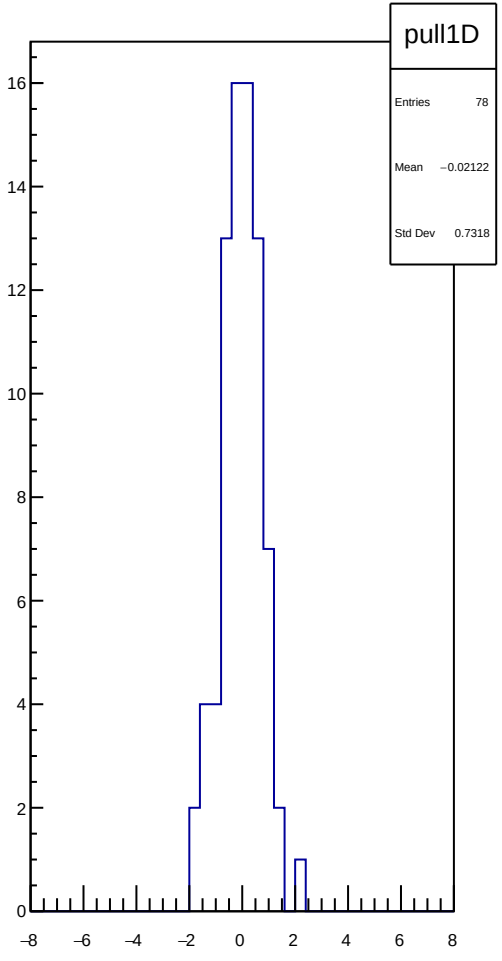

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 9.214 / 77
p0 0.277 ± 0.01563
pull
Entries 78
Mean 1163
Std Dev 1123

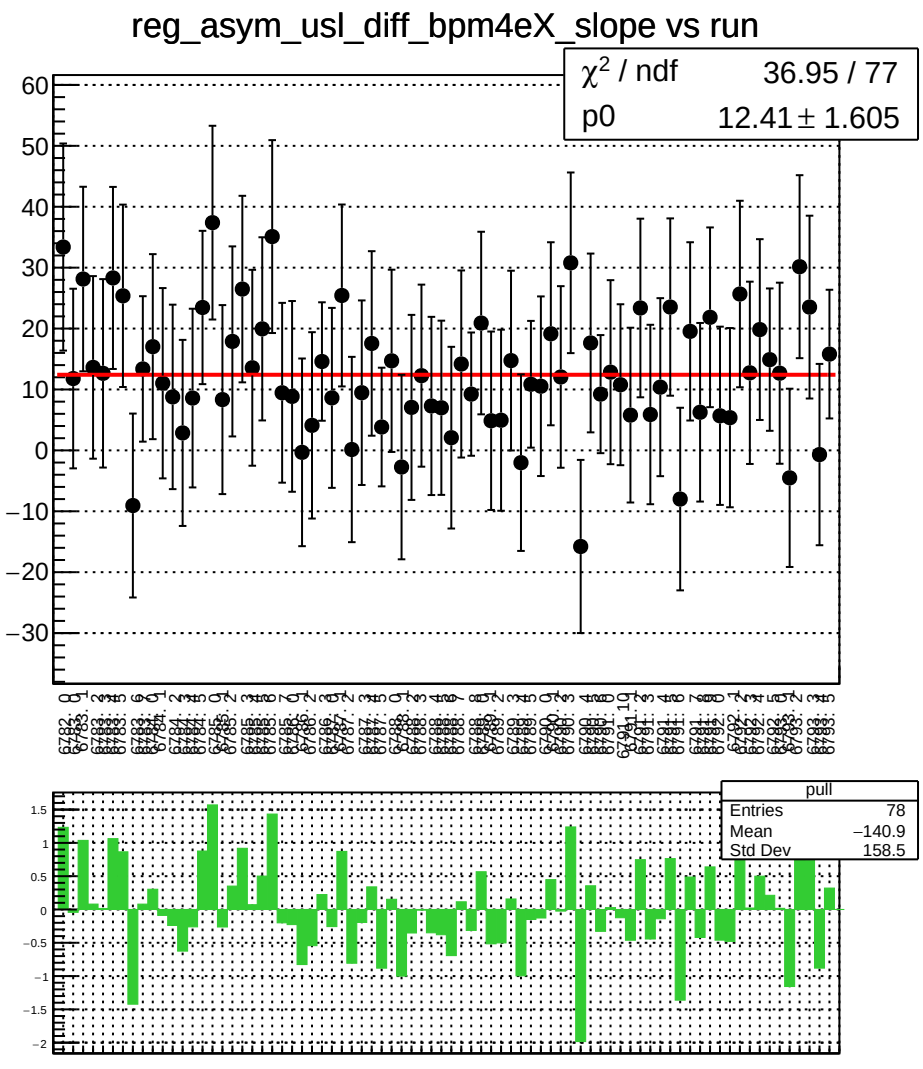

pull1D
Entries 78
Mean 0.002829
Std Dev 0.3437

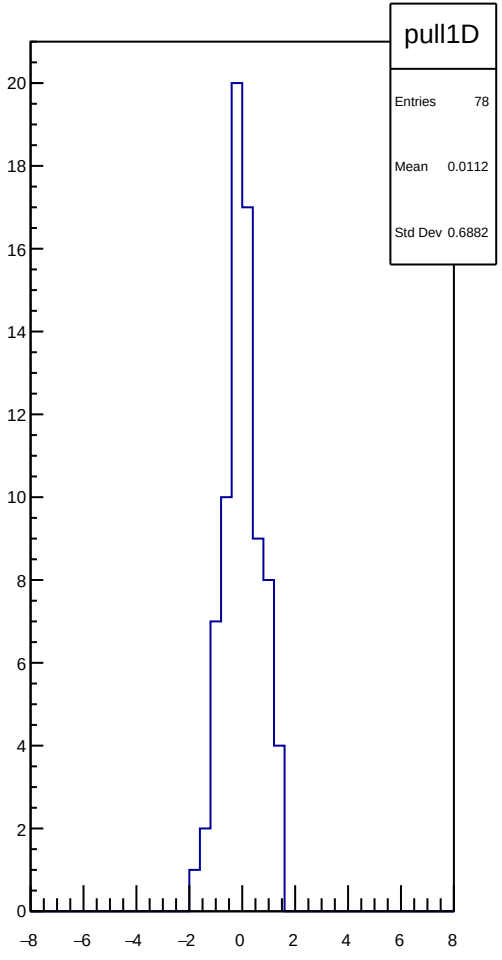

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 36.93 / 77
p0 −76.6 ± 1.719
pull
Entries 78
Mean −147.6
Std Dev 170.3

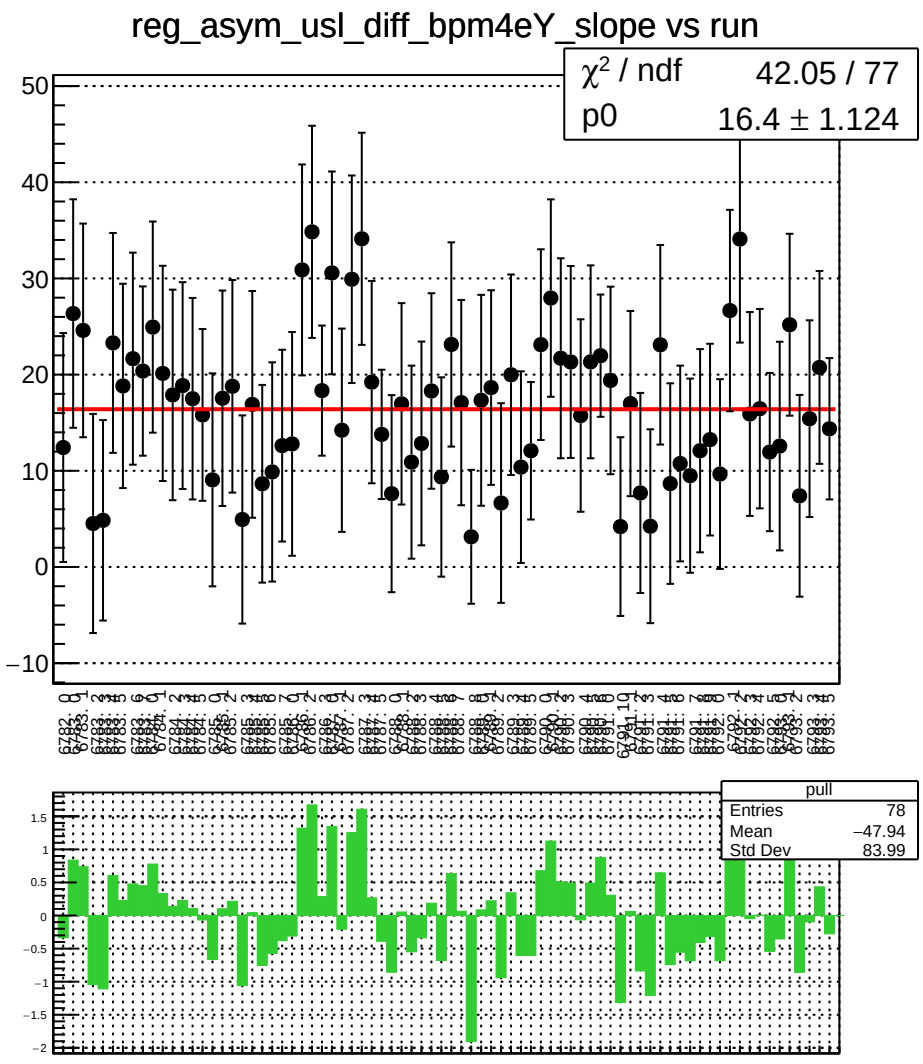

pull1D
Entries 78
Mean −0.01275
Std Dev 0.6879

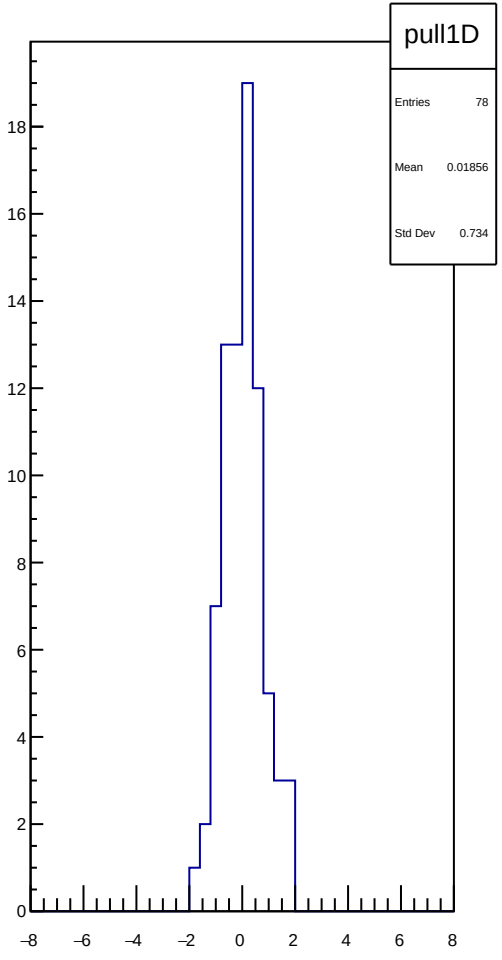

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 41.8 / 77
p0 2.73 ± 0.8154
pull
Entries 78
Mean −17.67
Std Dev 55.26

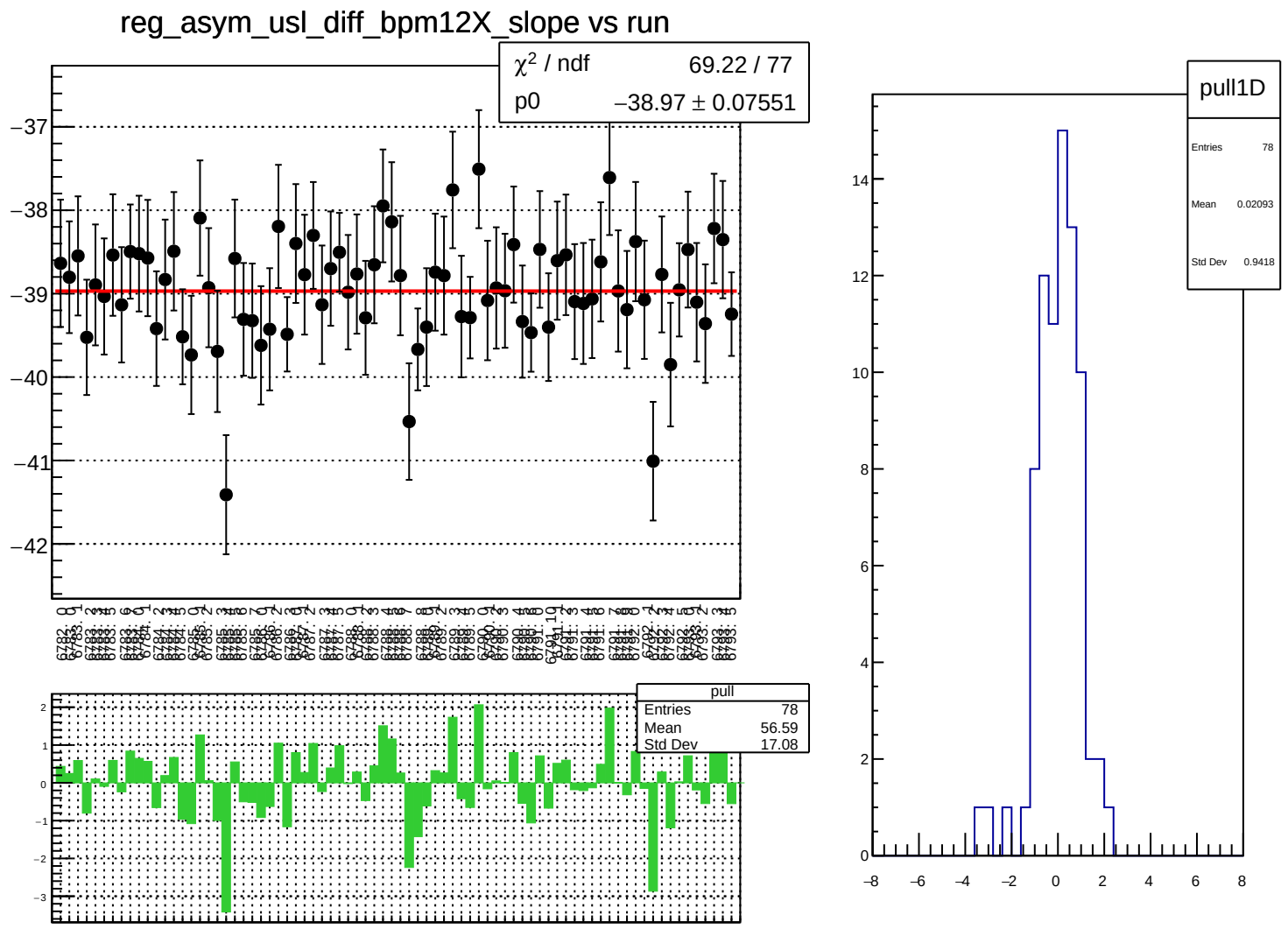

pull1D
Entries 78
Mean −0.02122
Std Dev 0.7318

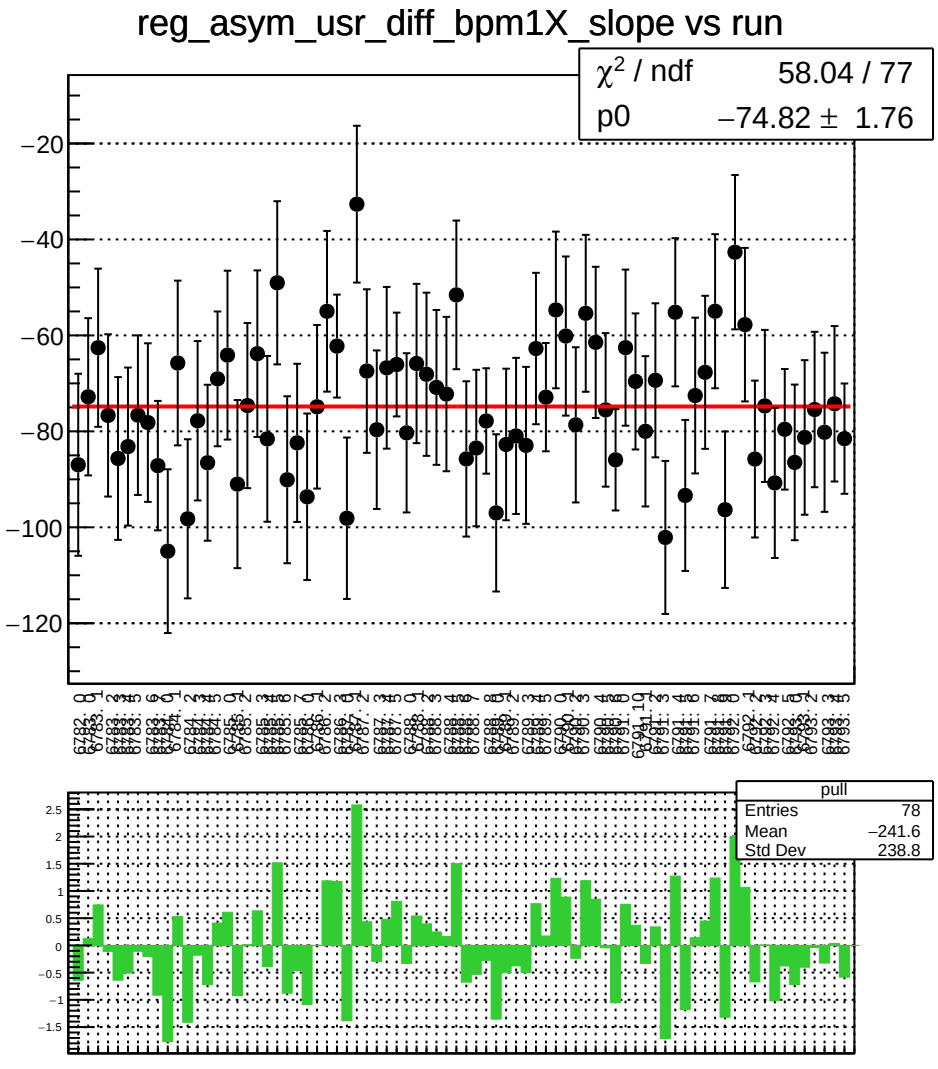

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 36.95 / 77
p0 12.41 ± 1.605
pull
Entries 78
Mean −140.9
Std Dev 158.5

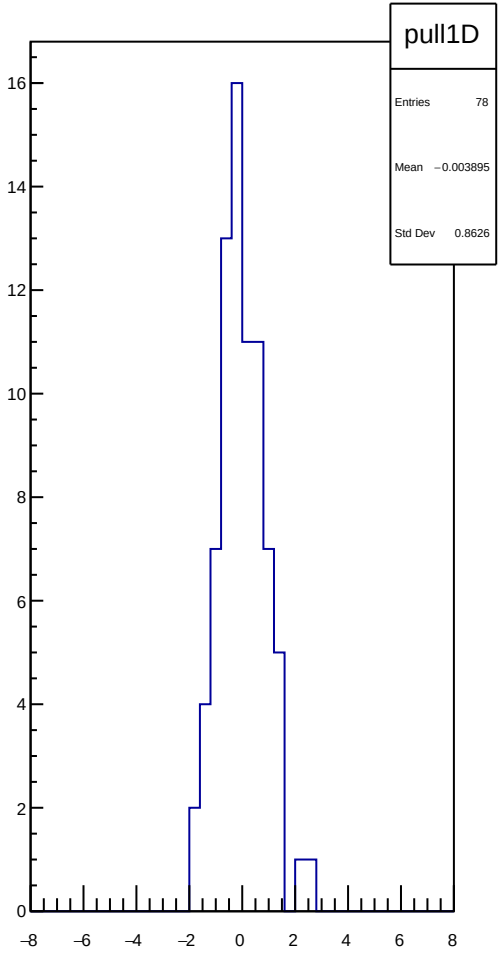

pull1D
Entries 78
Mean 0.0112
Std Dev 0.6882

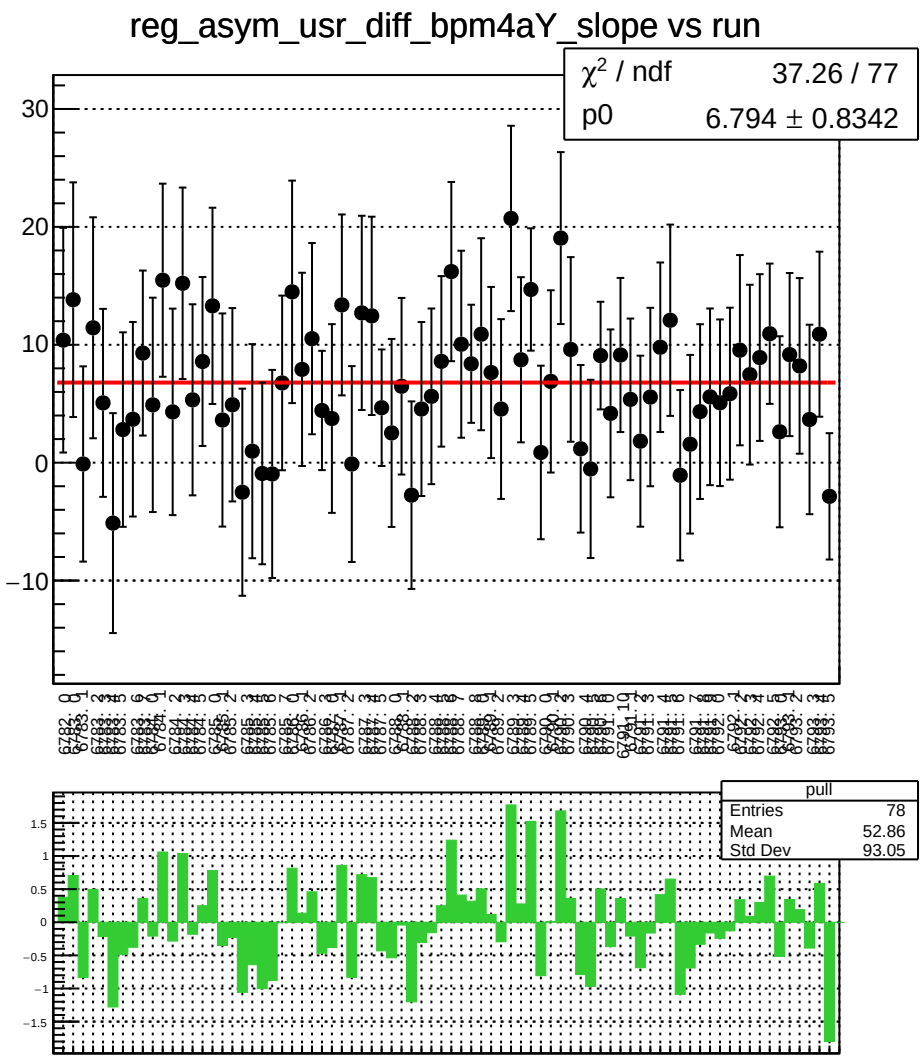

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 42.05 / 77
p0 16.4 ± 1.124
pull
Entries 78
Mean −47.94
Std Dev 83.99

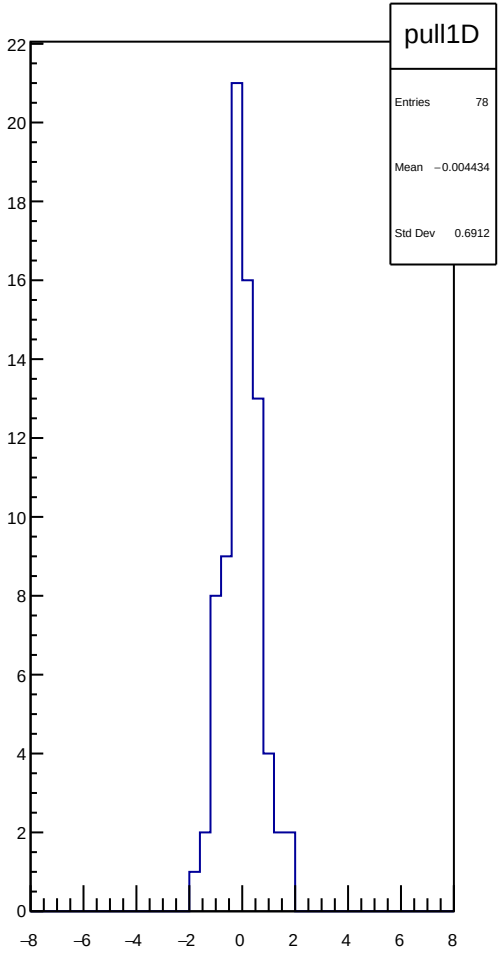

pull1D
Entries 78
Mean 0.01856
Std Dev 0.734

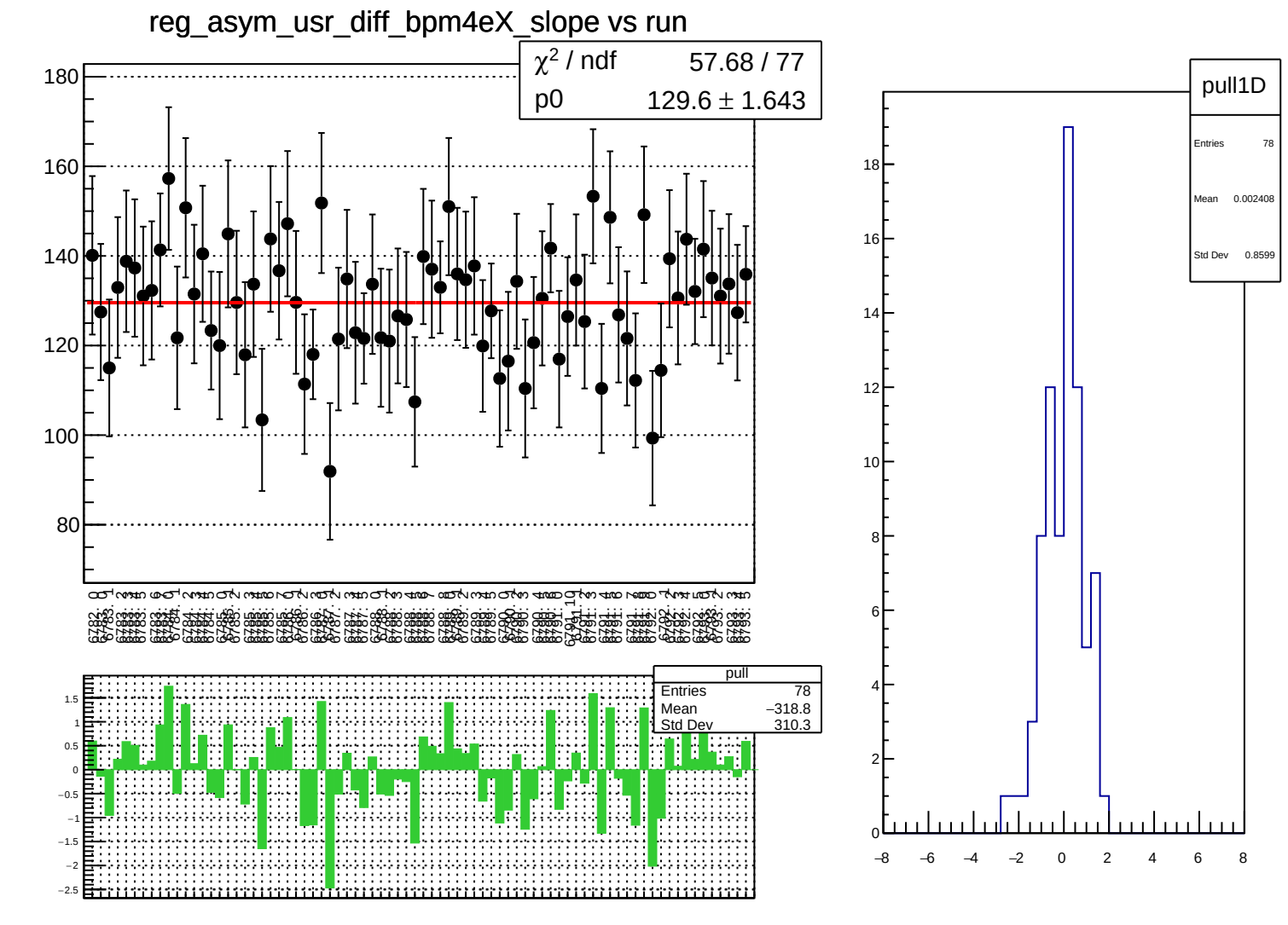

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 69.22 / 77
p0 −38.97 ± 0.07551
pull
Entries 78
Mean 56.59
Std Dev 17.08
pull1D
Entries 78
Mean 0.02093
Std Dev 0.9418

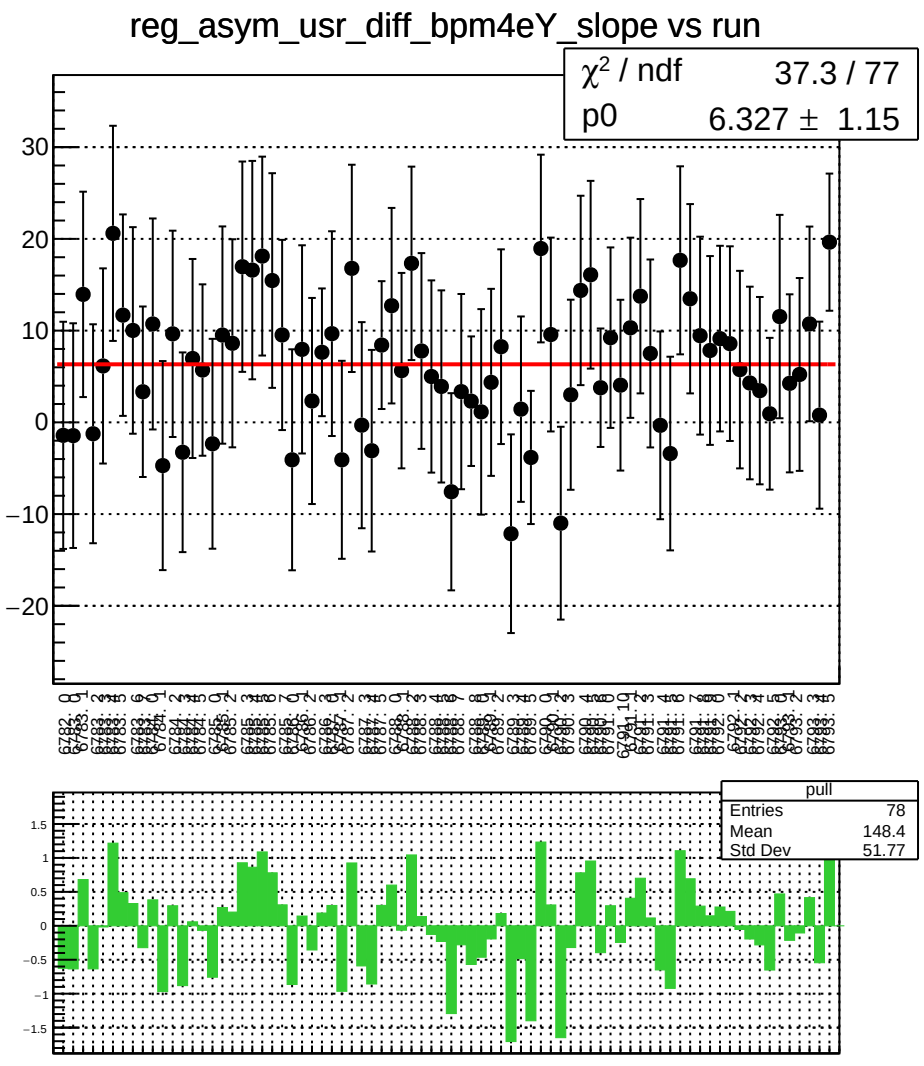

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 58.04 / 77
p0 −74.82 ± 1.76
pull
Entries 78
Mean −241.6
Std Dev 238.8

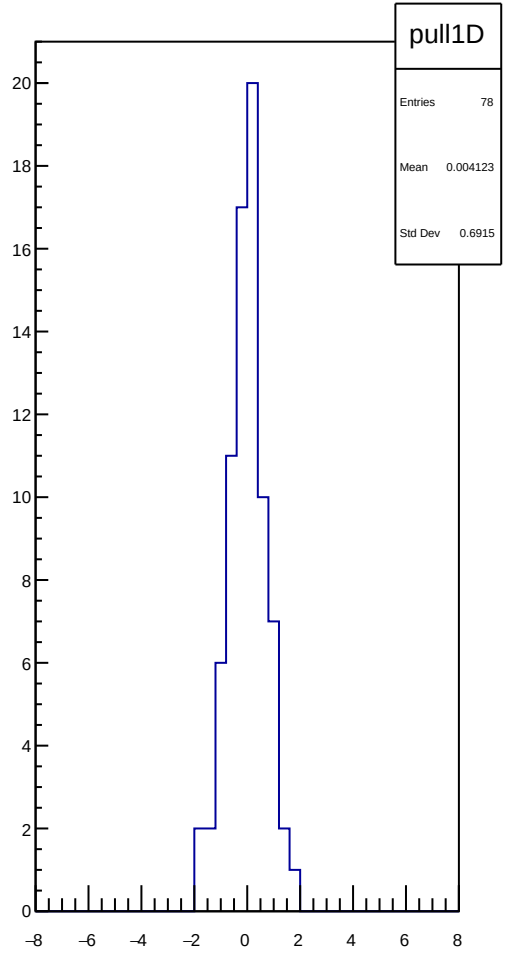

pull1D
Entries 78
Mean −0.003895
Std Dev 0.8626

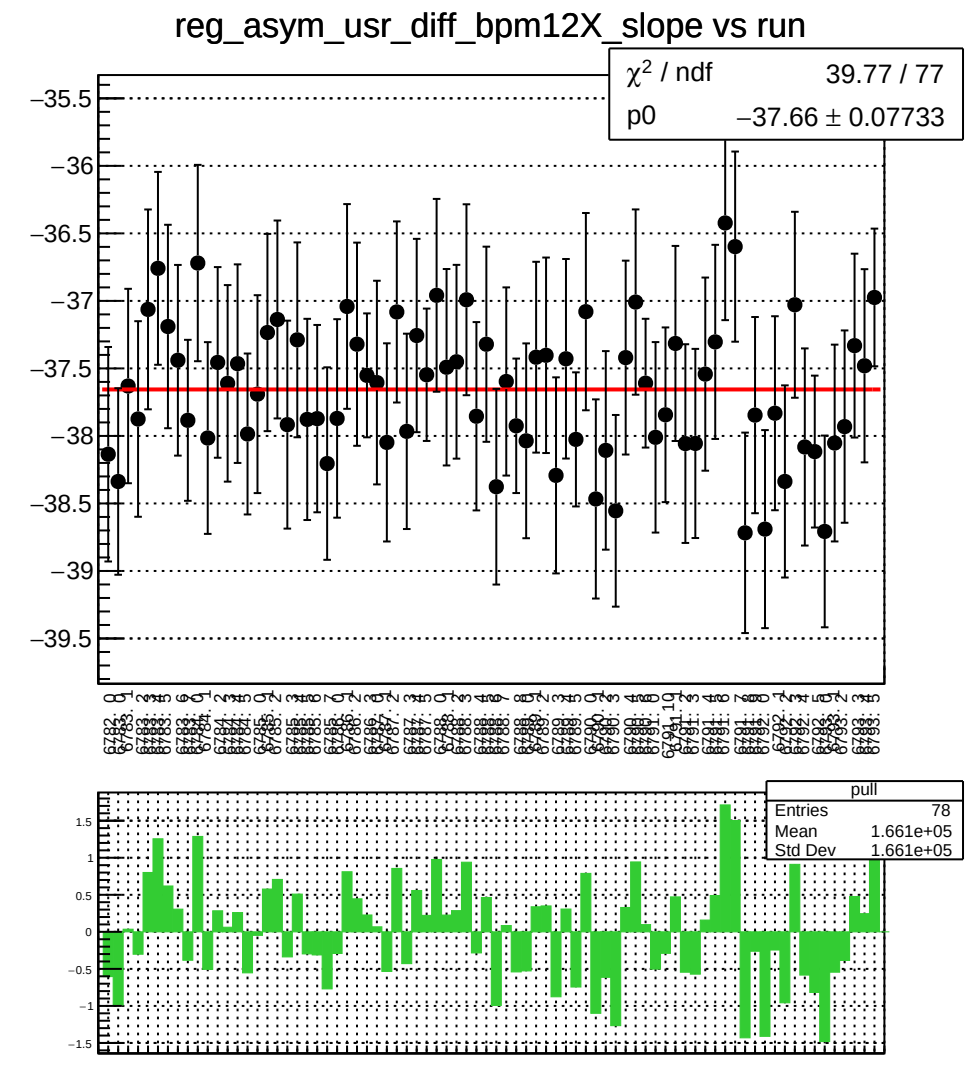

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 37.26 / 77
p0 6.794 ± 0.8342
pull
Entries 78
Mean 52.86
Std Dev 93.05

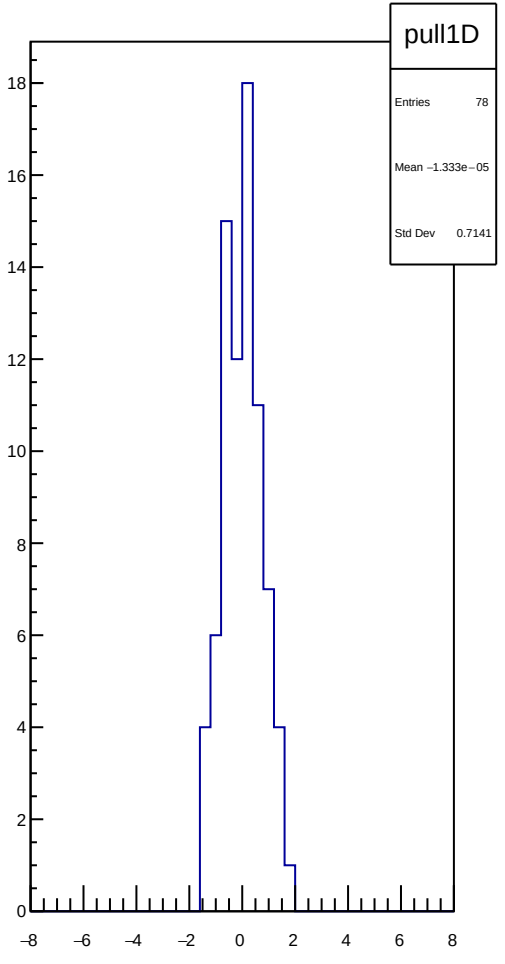

pull1D
Entries 78
Mean −0.004434
Std Dev 0.6912

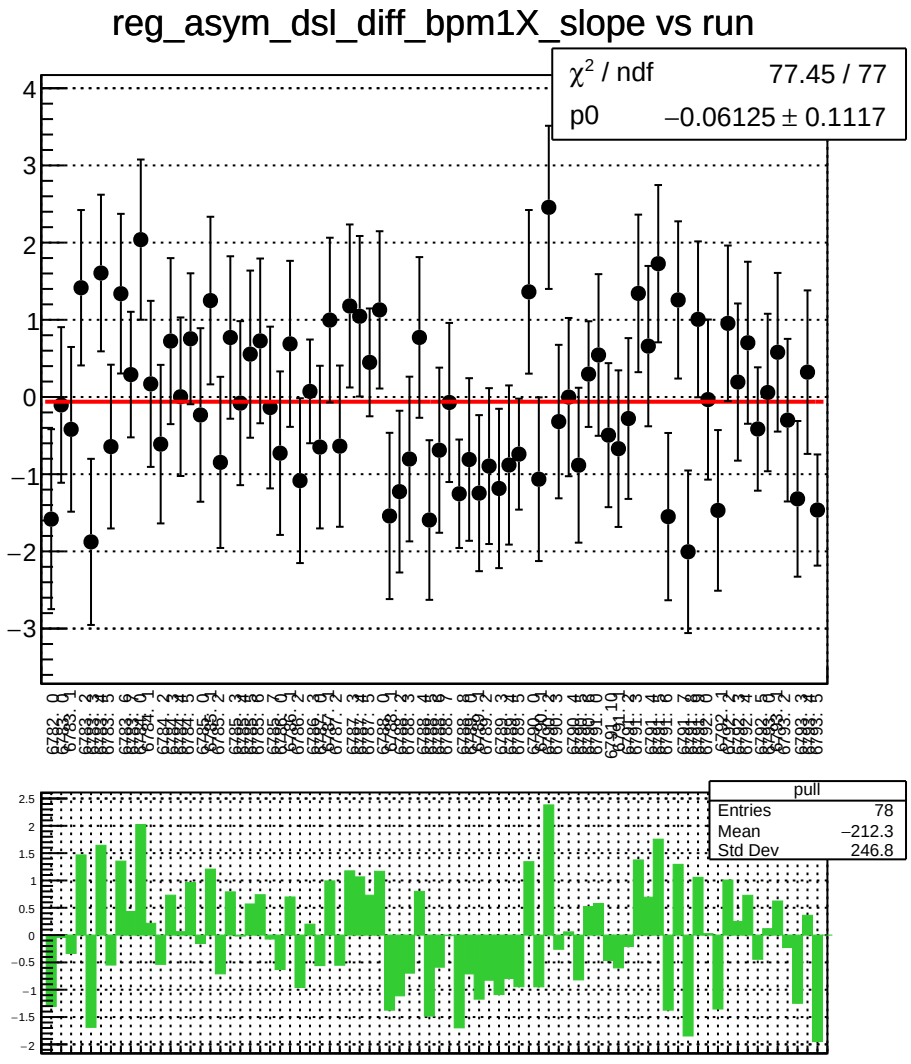

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 57.68 / 77
p0 129.6 ± 1.643
pull
Entries 78
Mean −318.8
Std Dev 310.3
pull1D
Entries 78
Mean 0.002408
Std Dev 0.8599

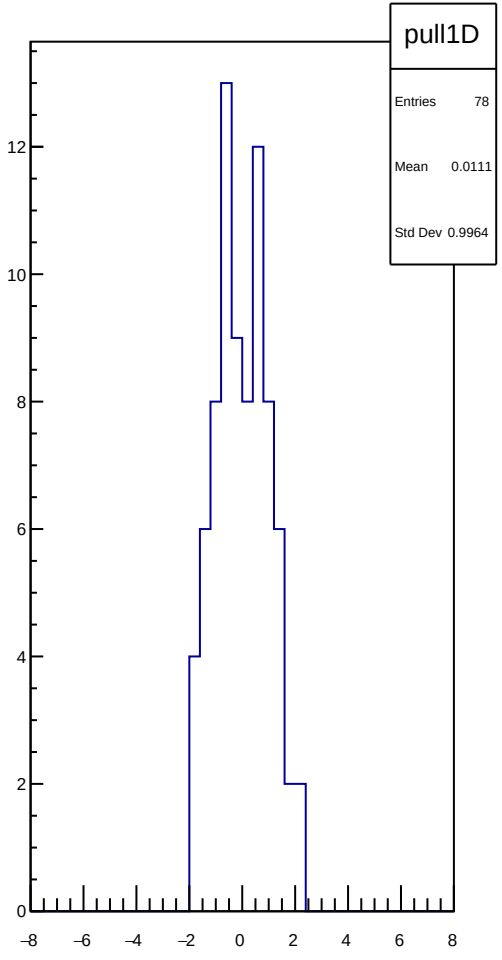

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 37.3 / 77
p0 6.327 ± 1.15
pull
Entries 78
Mean 148.4
Std Dev 51.77

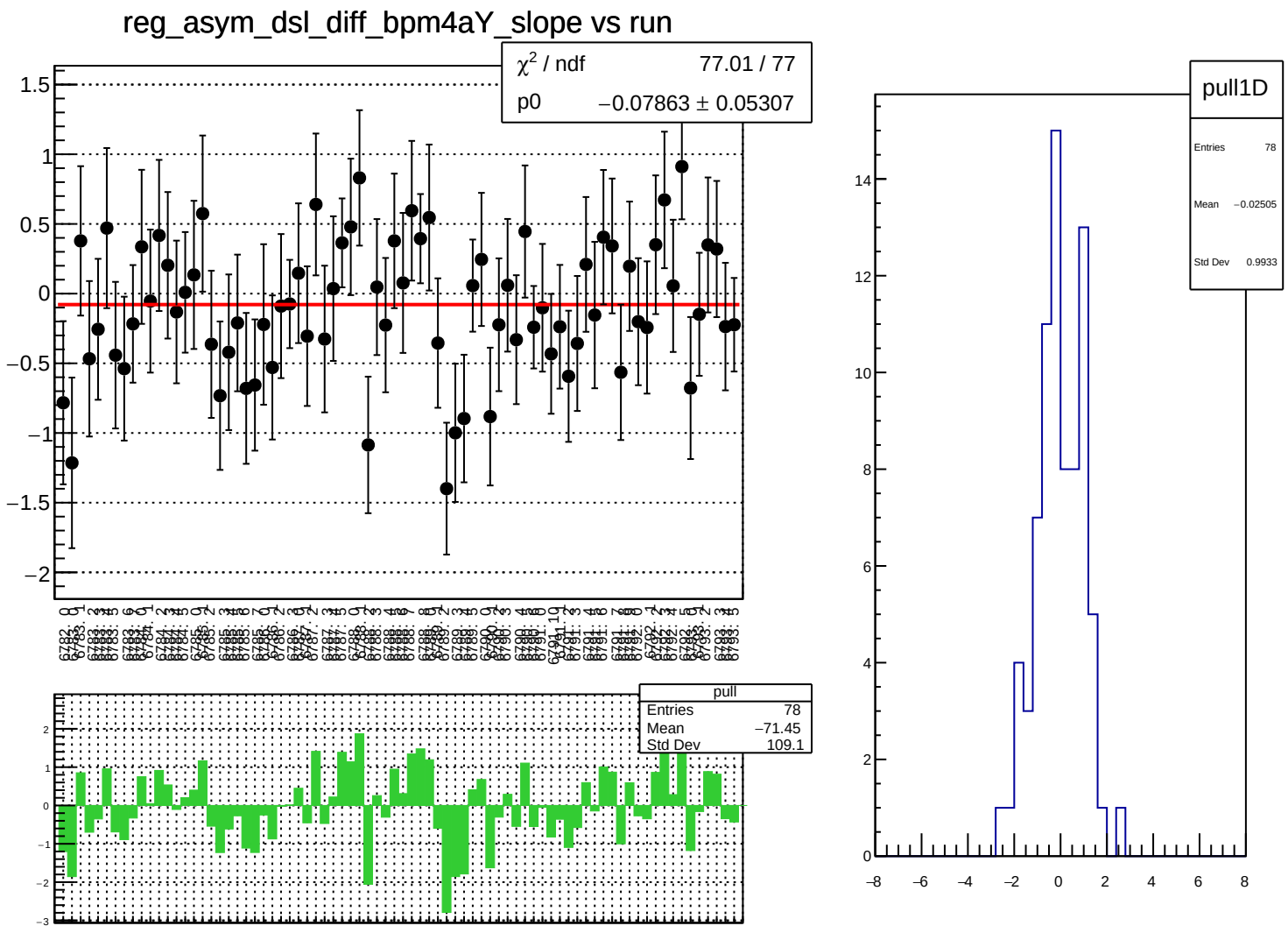

pull1D
Entries 78
Mean 0.004123
Std Dev 0.6915

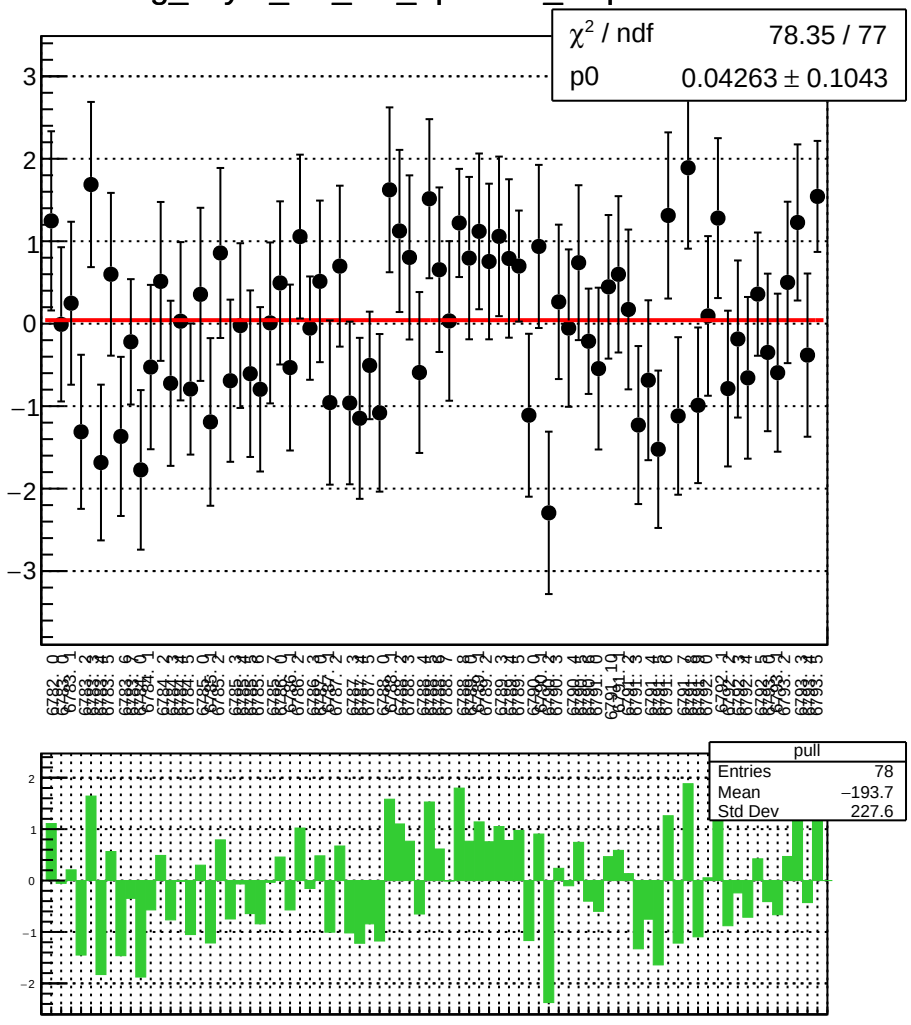

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 39.77 / 77
p0 −37.66 ± 0.07733
pull
Entries 78
Mean 1.661e+05
Std Dev 1.661e+05

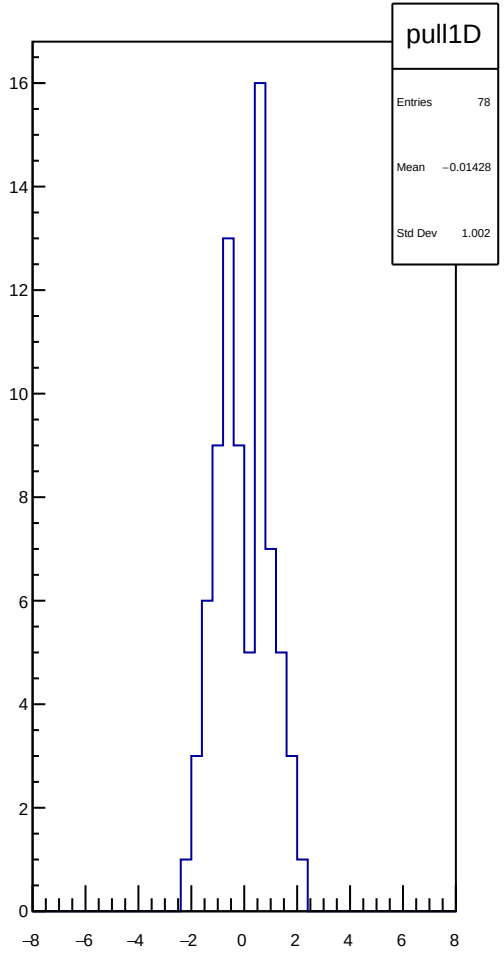

pull1D
Entries 78
Mean −1.333e−05
Std Dev 0.7141

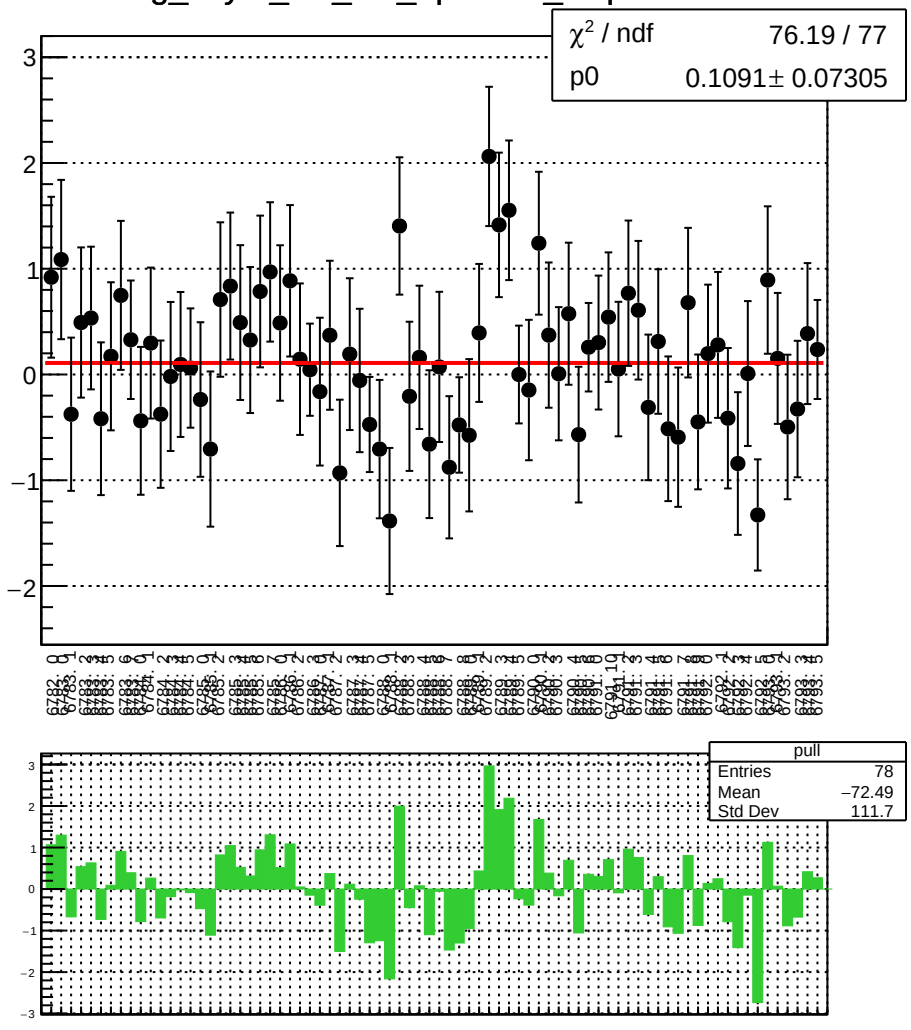

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 77.45 / 77
p0 −0.06125 ± 0.1117
pull
Entries 78
Mean −212.3
Std Dev 246.8

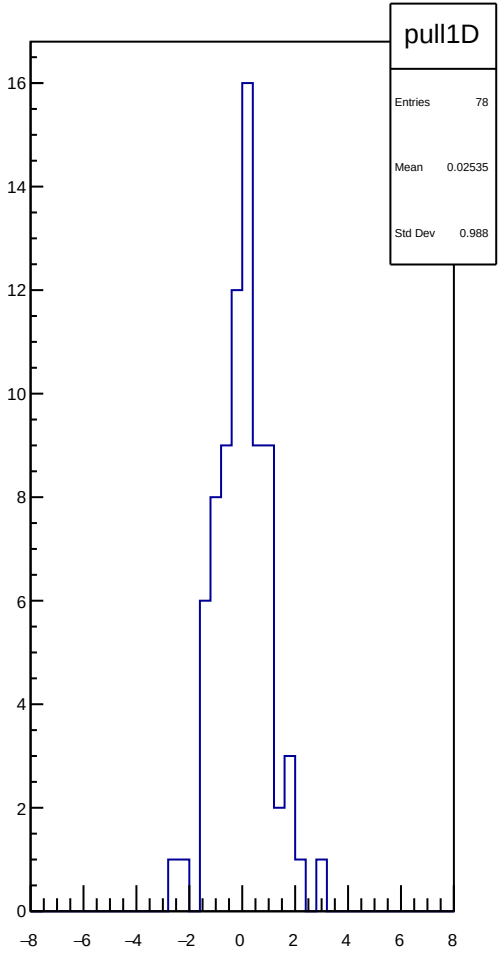

pull1D
Entries 78
Mean 0.0111
Std Dev 0.9964

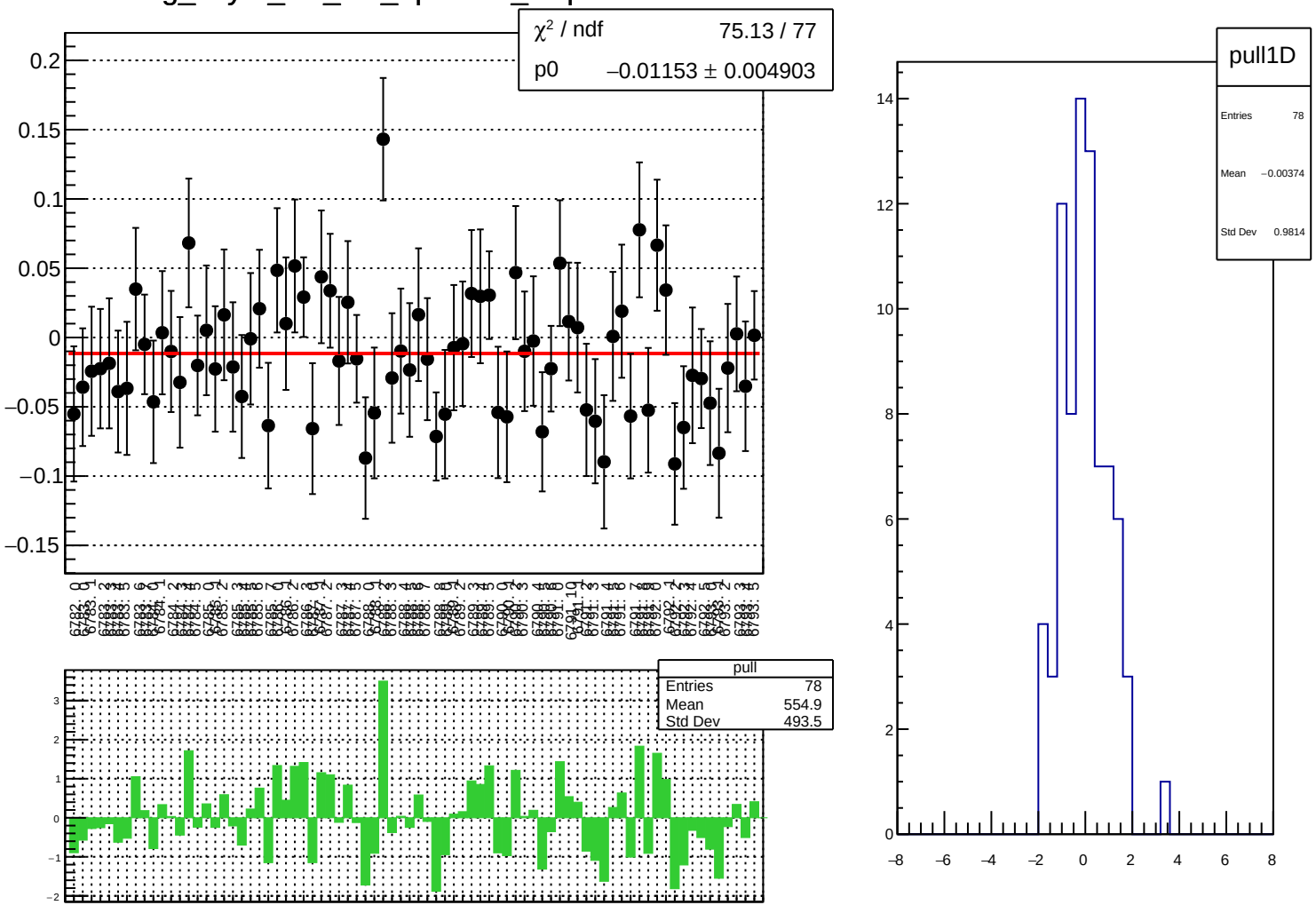

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 77.01 / 77
p0 −0.07863 ± 0.05307
pull
Entries 78
Mean −71.45
Std Dev 109.1
pull1D
Entries 78
Mean −0.02505
Std Dev 0.9933

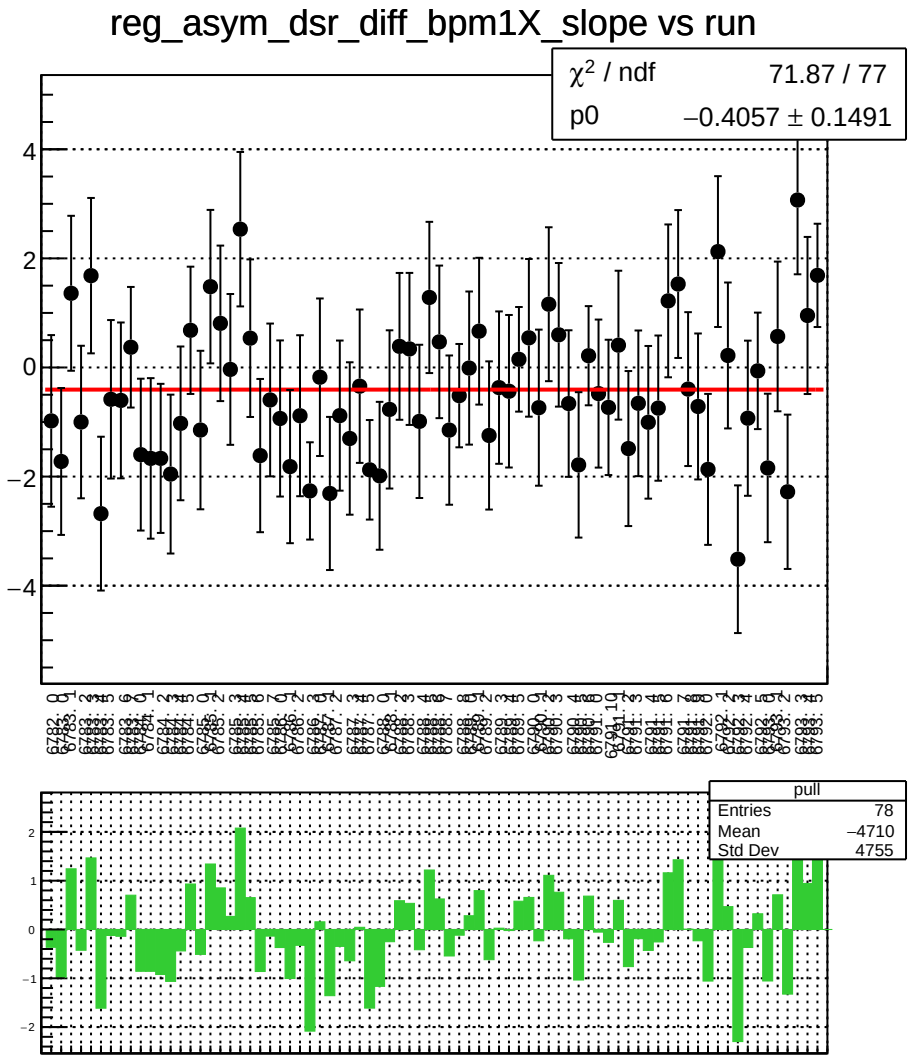

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 78.35 / 77
p0 0.04263 ± 0.1043
pull
Entries 78
Mean −193.7
Std Dev 227.6

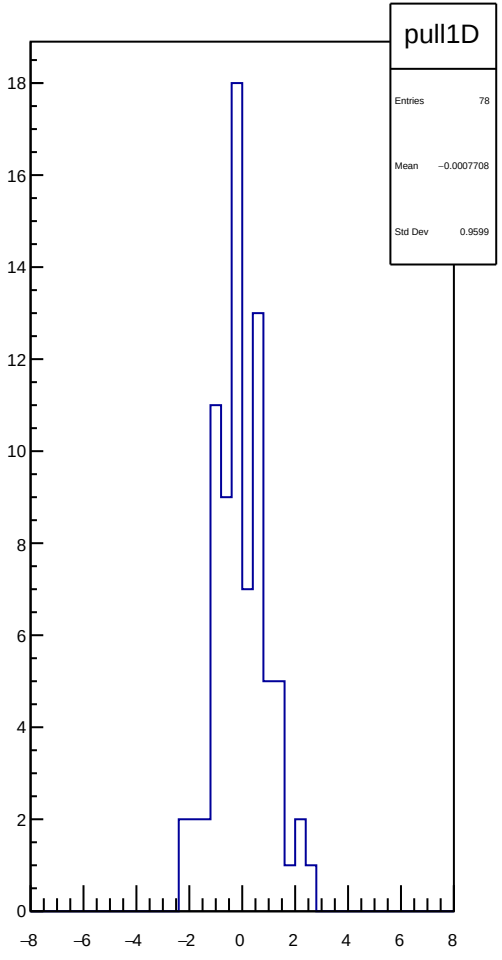

pull1D
Entries 78
Mean −0.01428
Std Dev 1.002

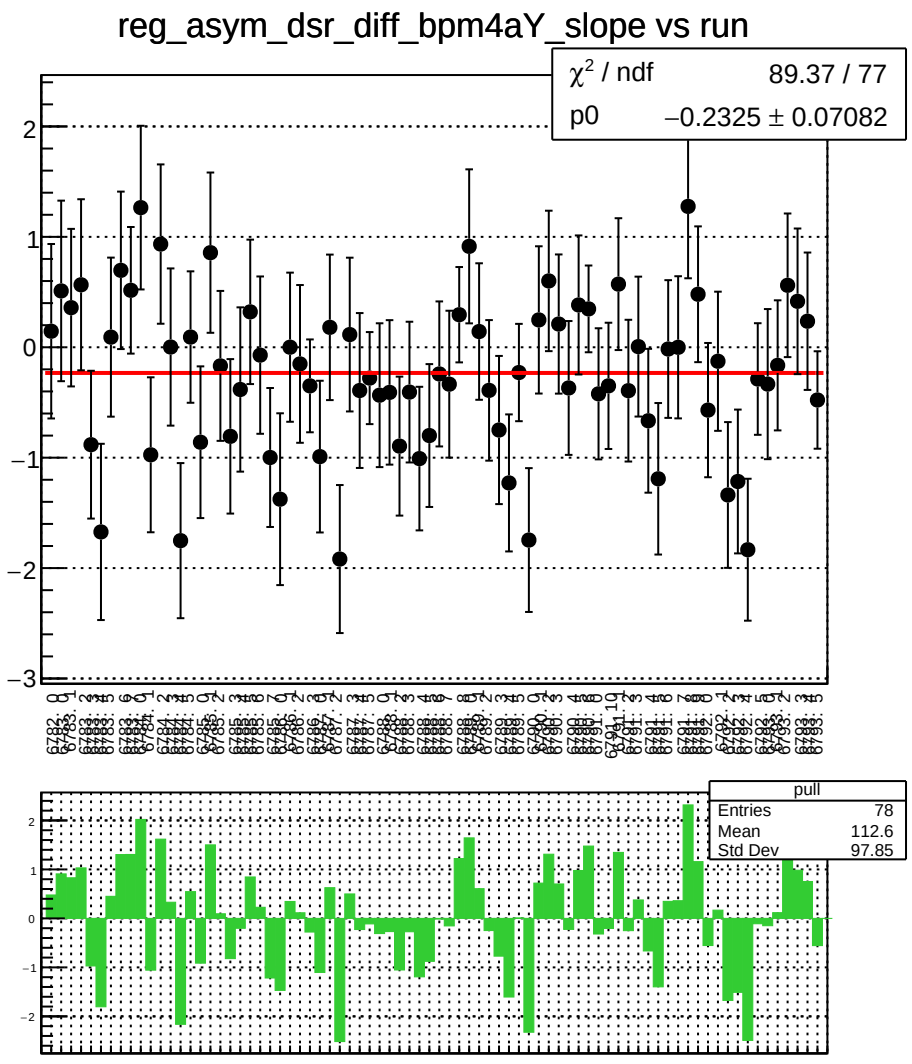

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 76.19 / 77
p0 0.1091± 0.07305
pull
Entries 78
Mean −72.49
Std Dev 111.7

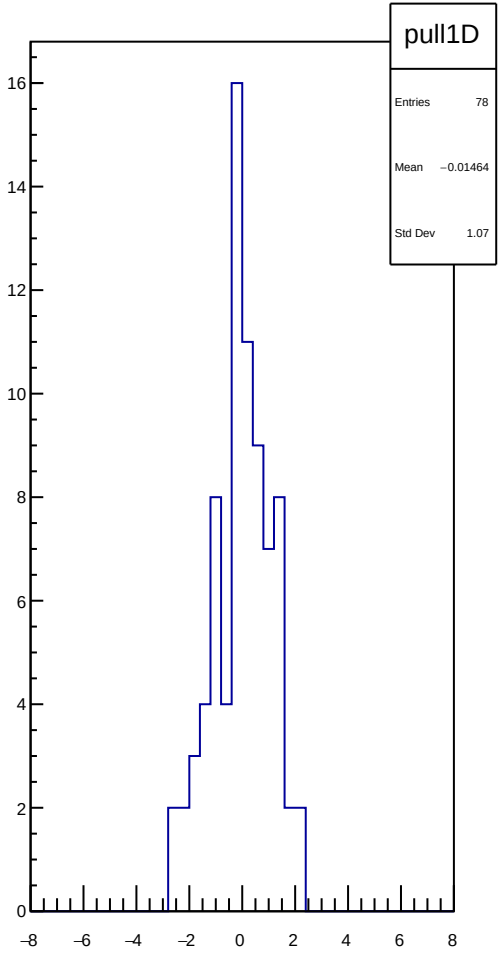

pull1D
Entries 78
Mean 0.02535
Std Dev 0.988

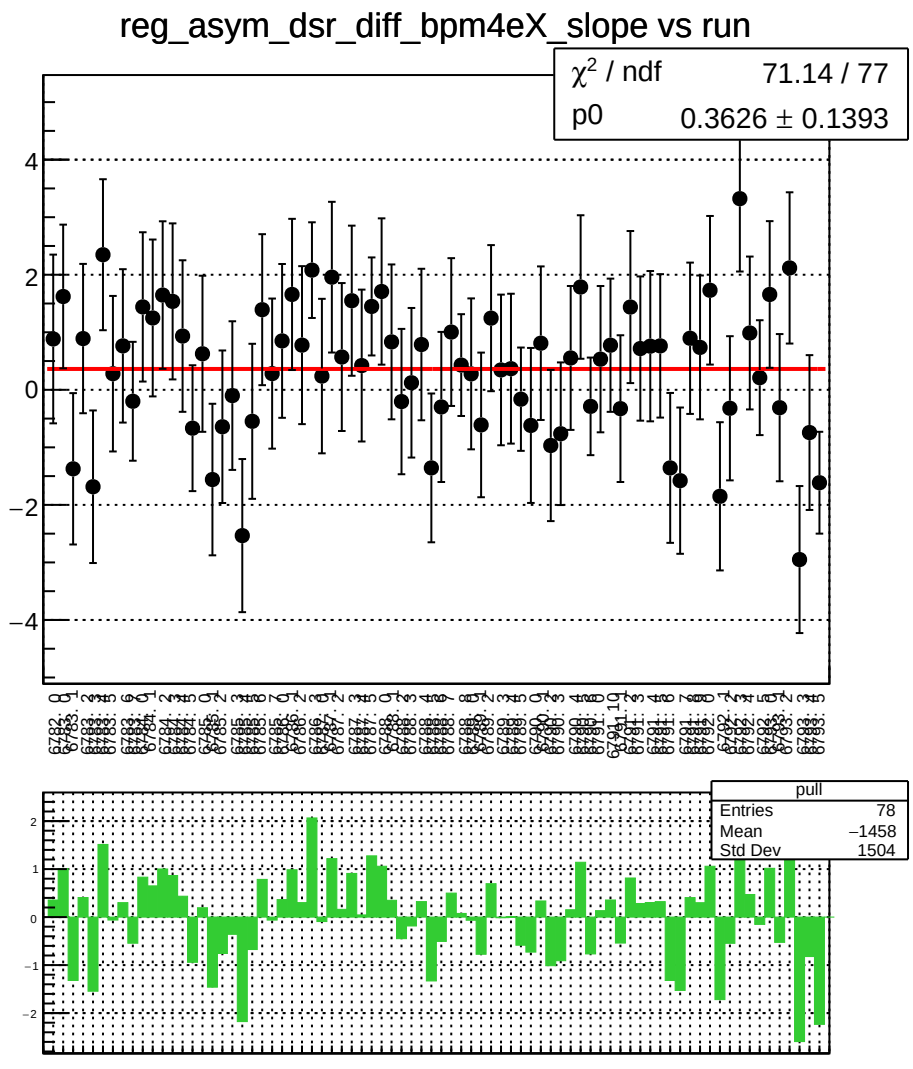

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 75.13 / 77
p0 −0.01153 ± 0.004903
pull
Entries 78
Mean 554.9
Std Dev 493.5
pull1D
Entries 78
Mean −0.00374
Std Dev 0.9814

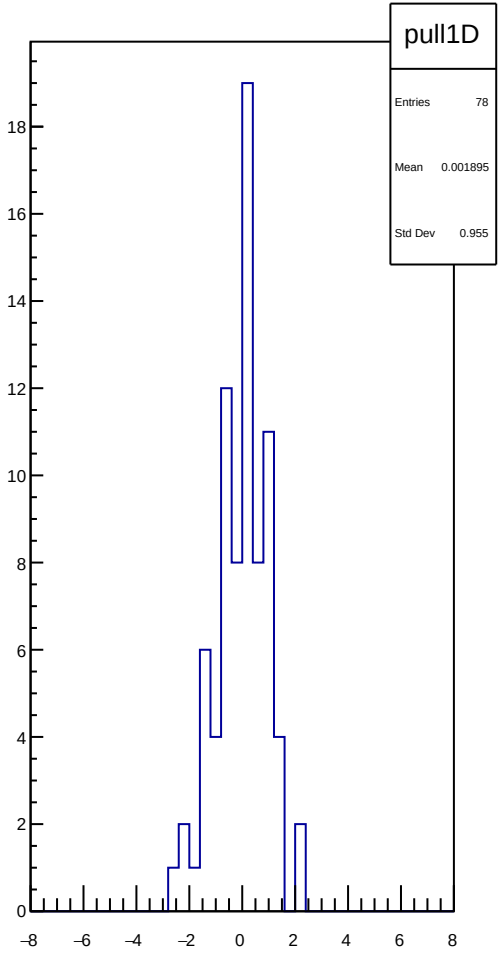

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 71.87 / 77
p0 −0.4057 ± 0.1491
pull
Entries 78
Mean −4710
Std Dev 4755

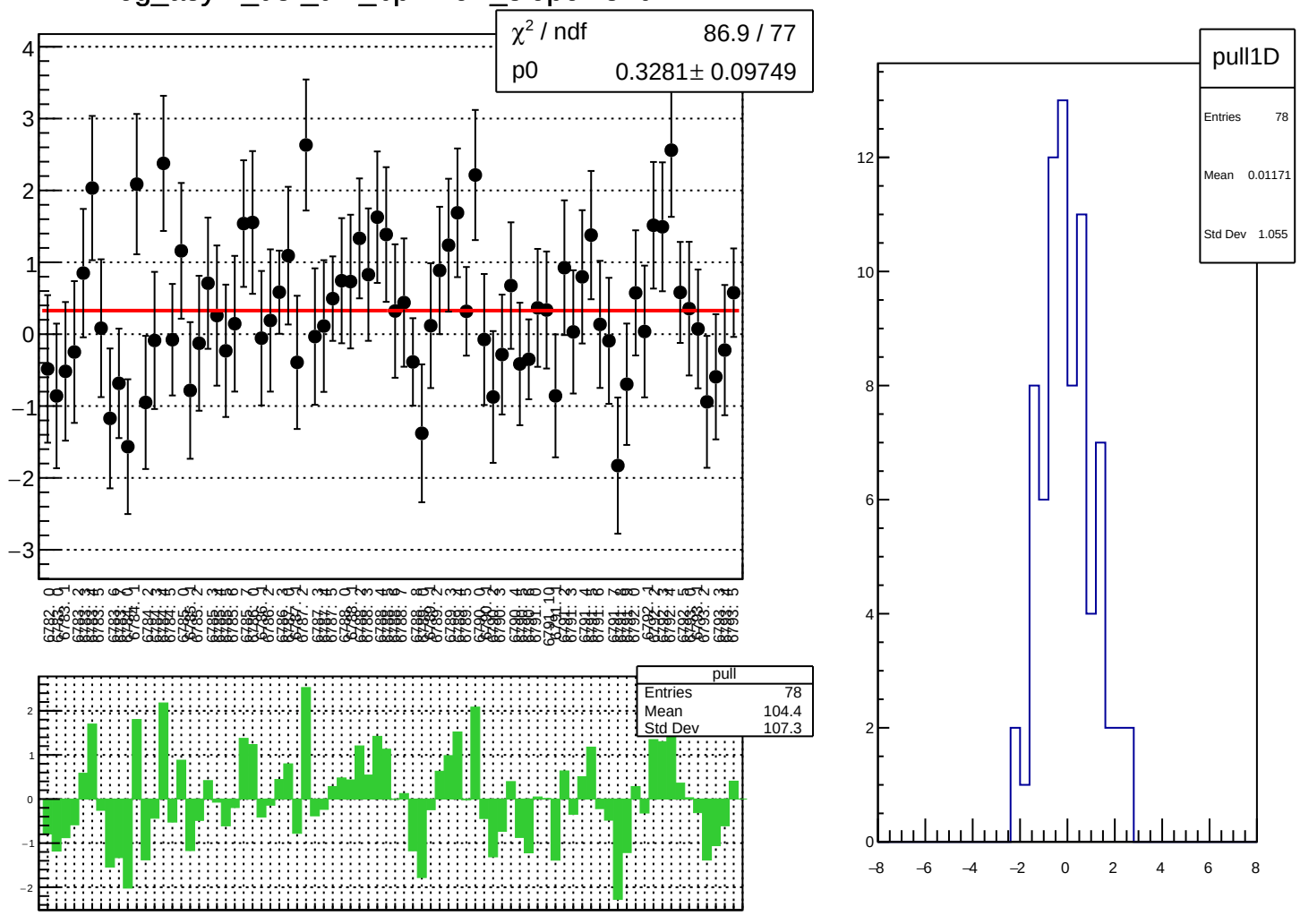

pull1D
Entries 78
Mean −0.0007708
Std Dev 0.9599

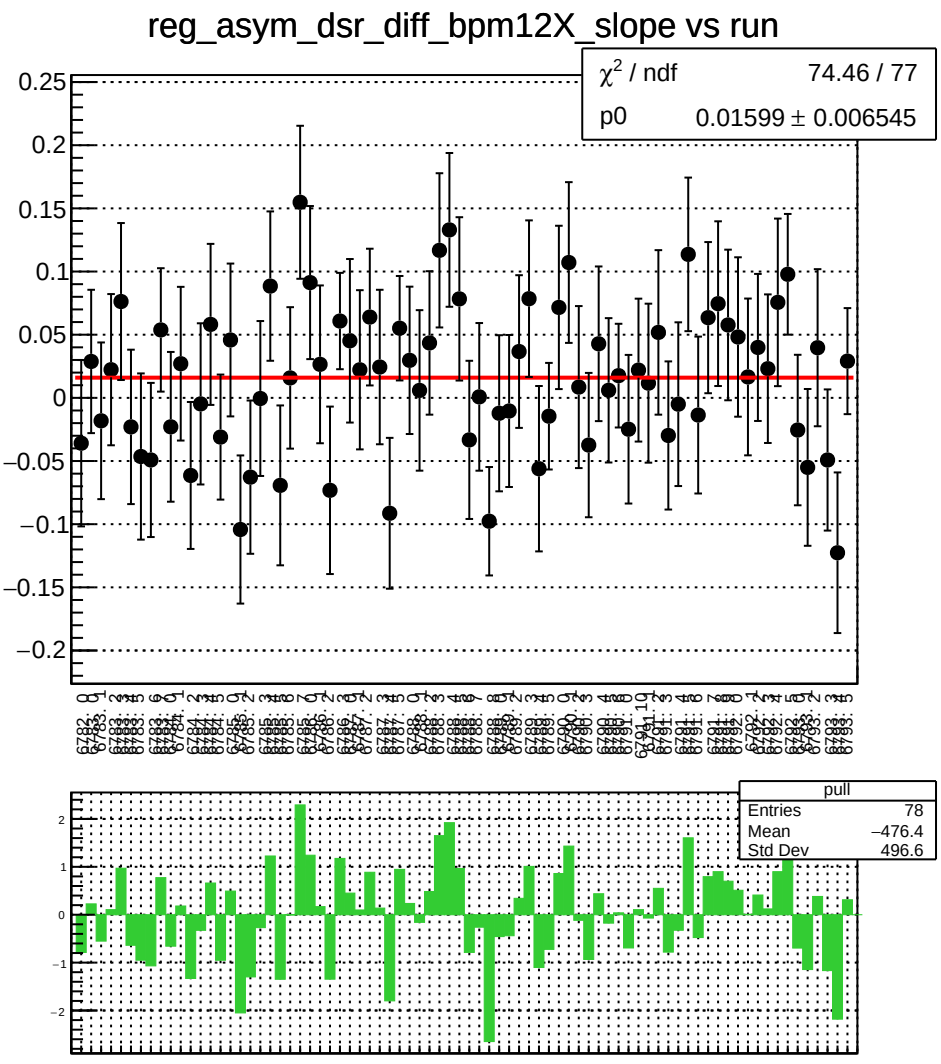

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 89.37 / 77
p0 −0.2325 ± 0.07082
pull
Entries 78
Mean 112.6
Std Dev 97.85

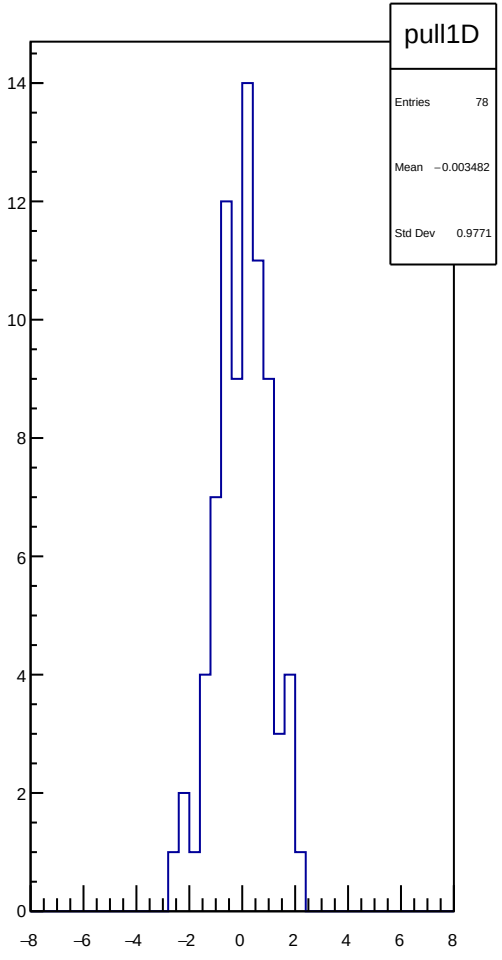

pull1D
Entries 78
Mean −0.01464
Std Dev 1.07

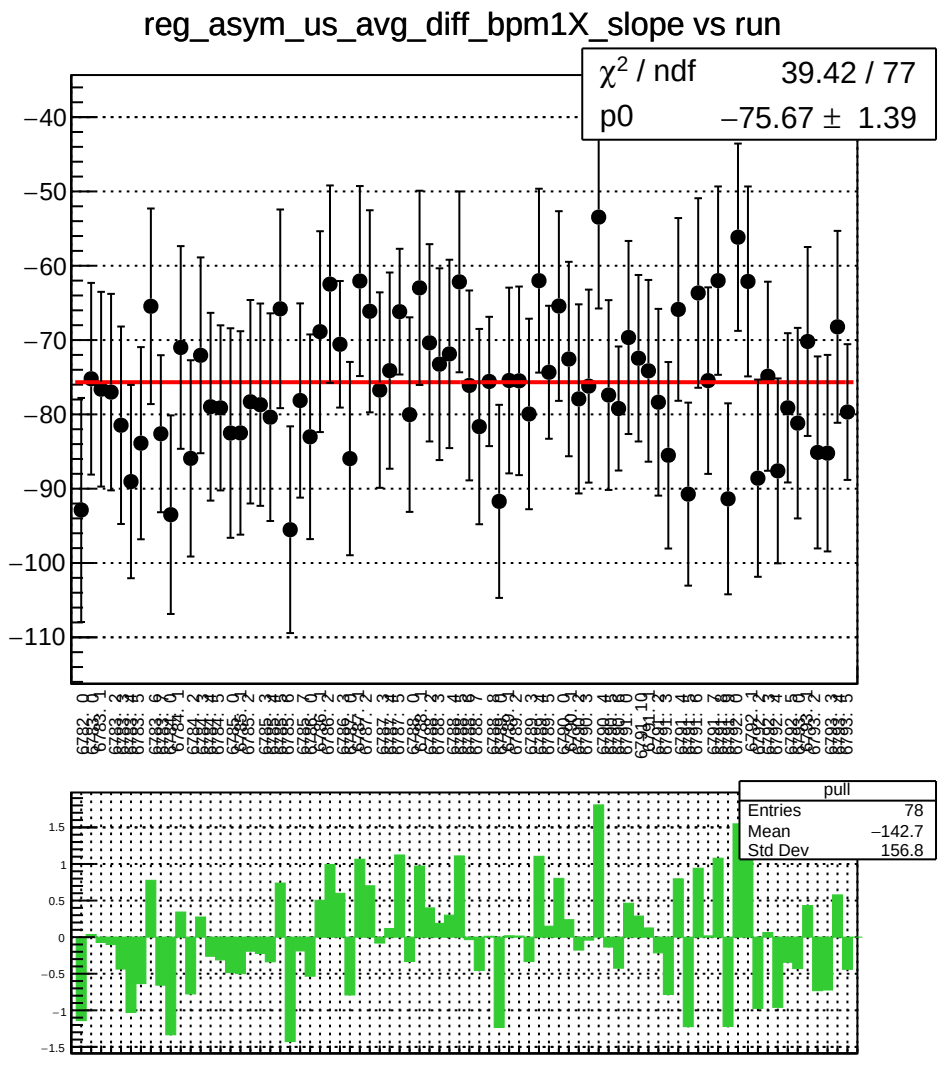

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 71.14 / 77
p0 0.3626 ± 0.1393
pull
Entries 78
Mean −1458
Std Dev 1504

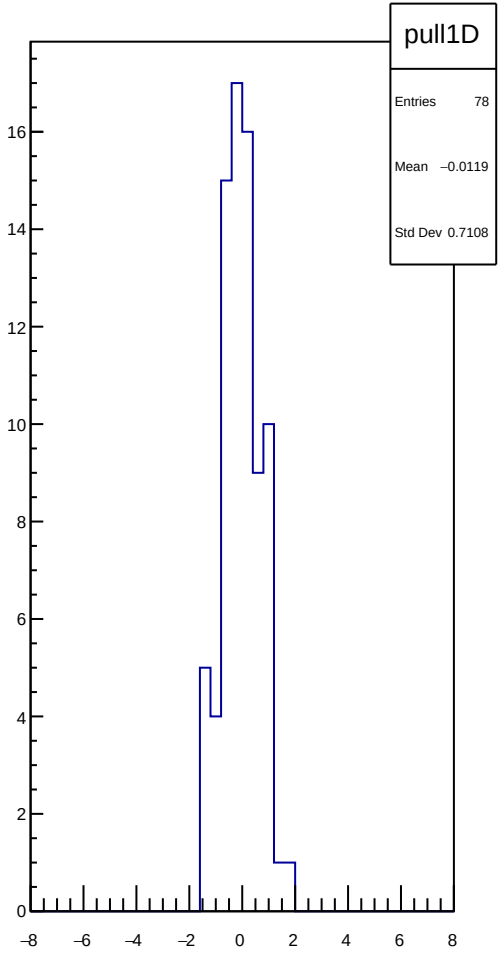

pull1D
Entries 78
Mean 0.001895
Std Dev 0.955

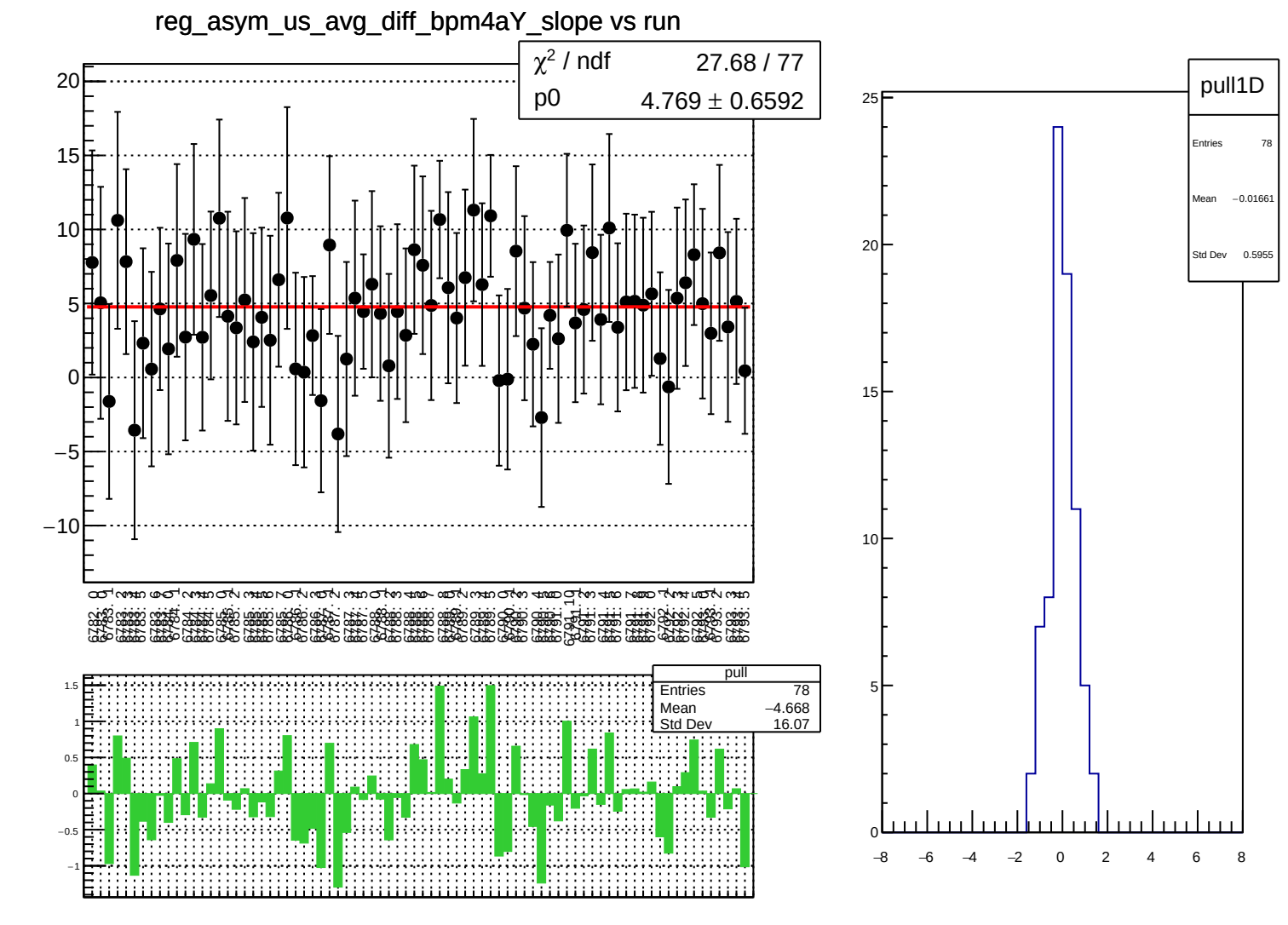

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 86.9 / 77
p0 0.3281± 0.09749
pull
Entries 78
Mean 104.4
Std Dev 107.3
pull1D
Entries 78
Mean 0.01171
Std Dev 1.055

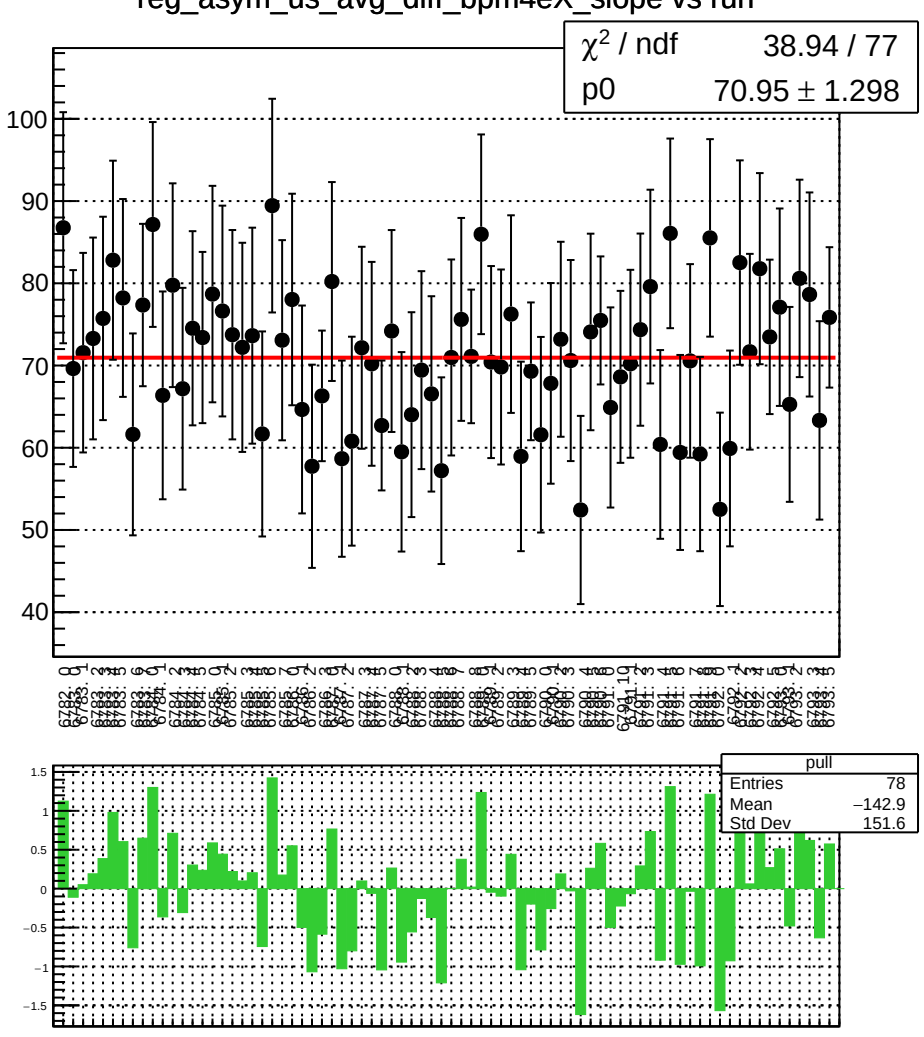

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 74.46 / 77
p0 0.01599 ± 0.006545
pull
Entries 78
Mean −476.4
Std Dev 496.6

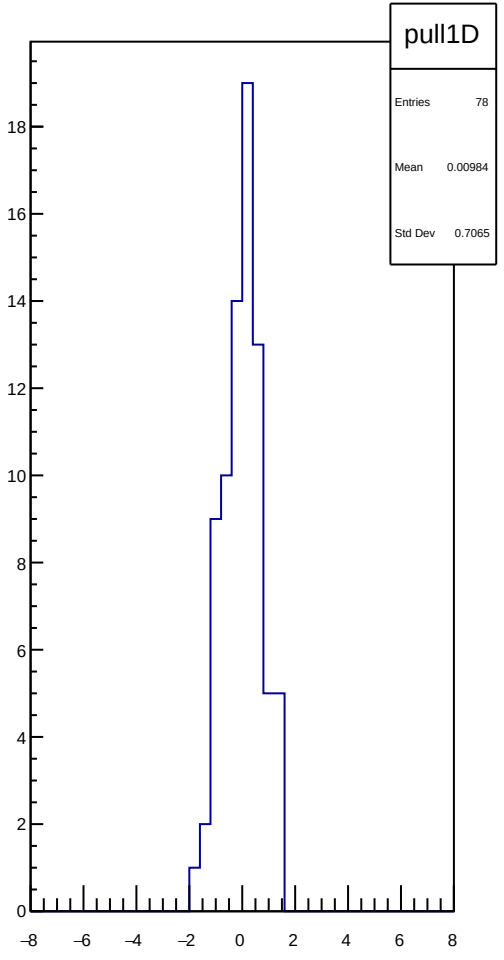

pull1D
Entries 78
Mean −0.003482
Std Dev 0.9771

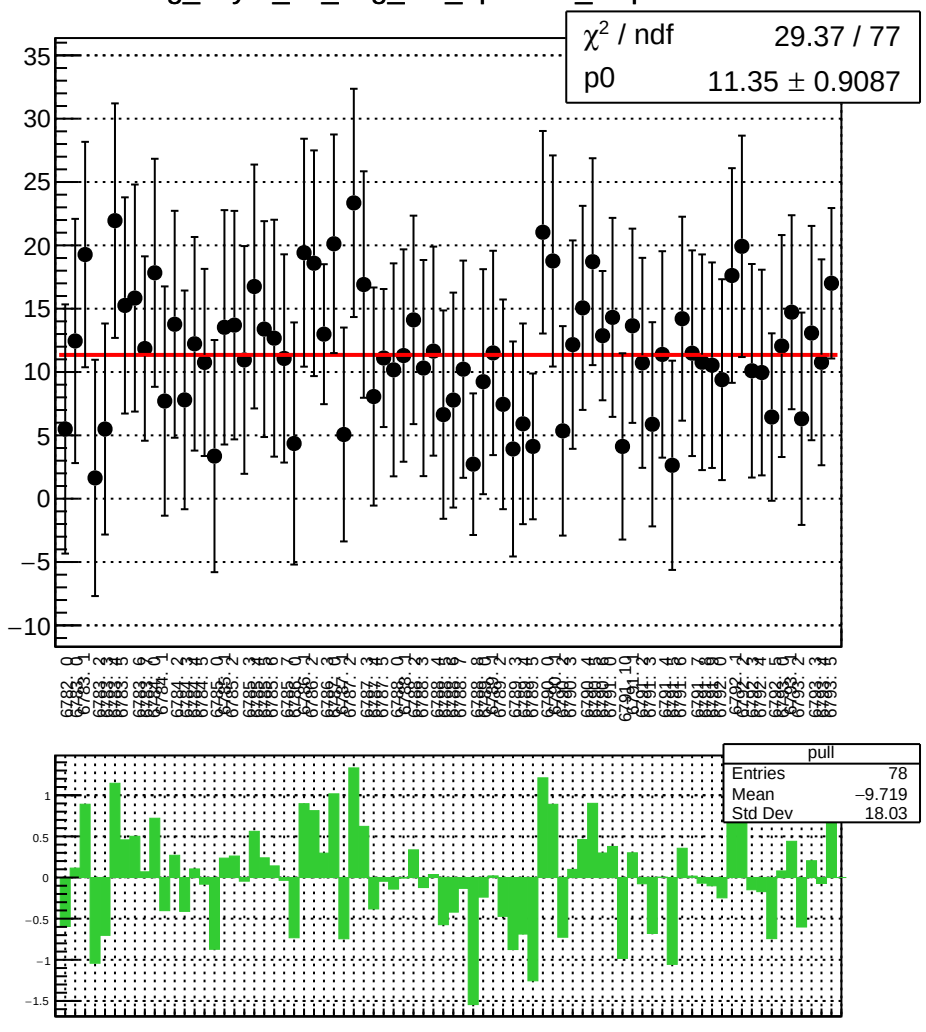

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 39.42 / 77
p0 −75.67 ± 1.39
pull
Entries 78
Mean −142.7
Std Dev 156.8

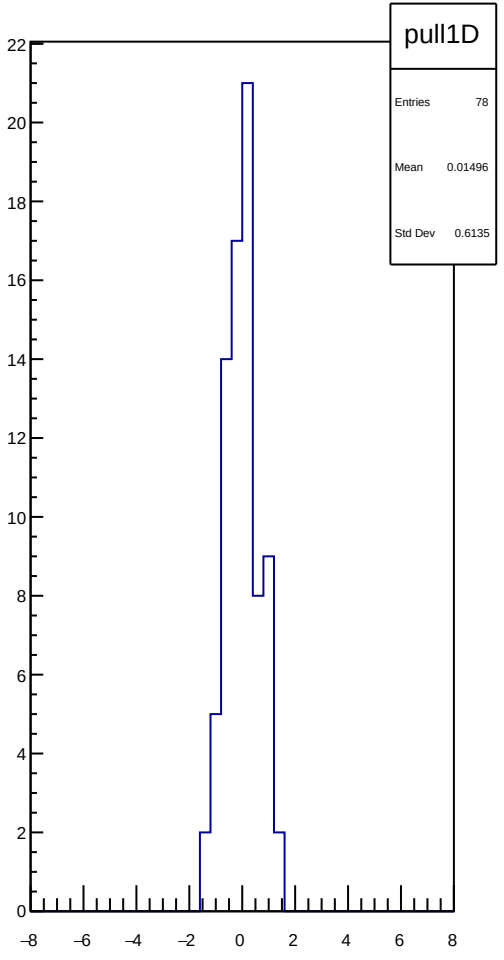

pull1D
Entries 78
Mean −0.0119
Std Dev 0.7108

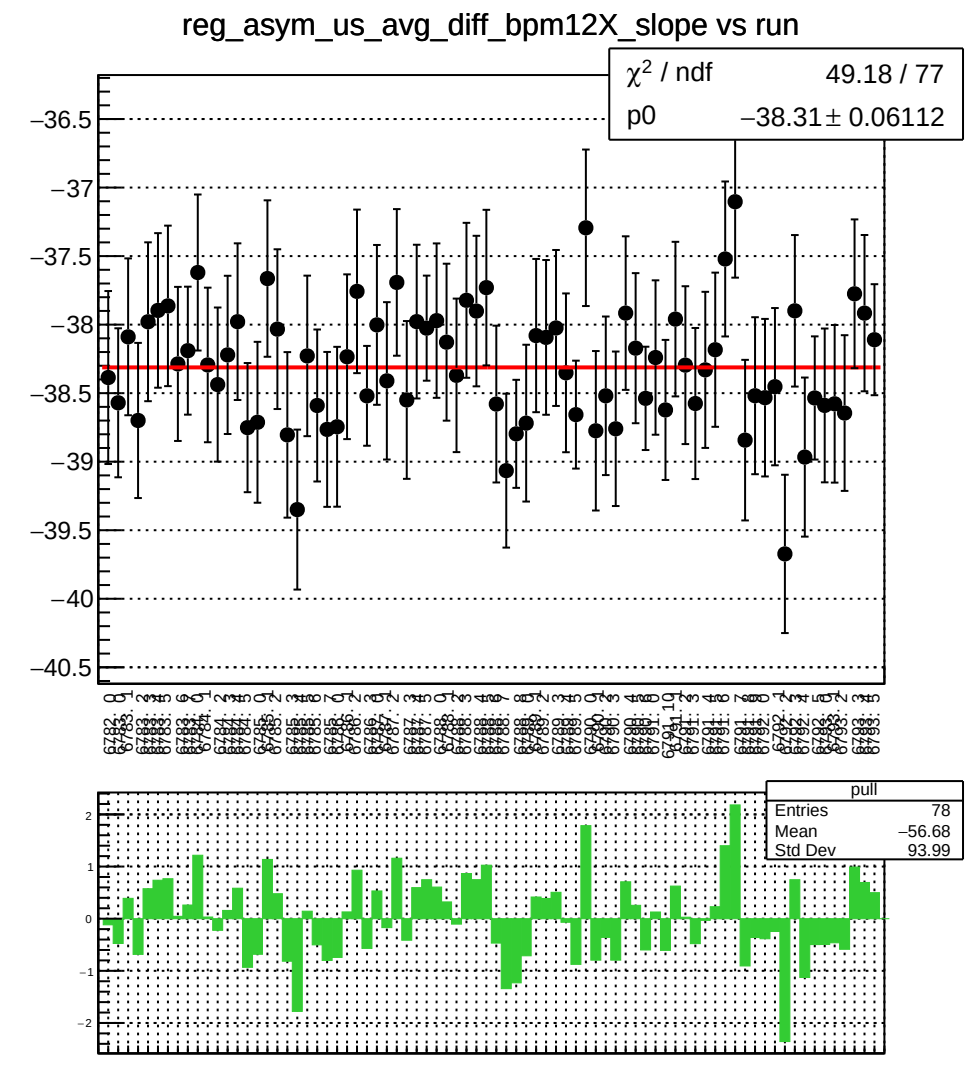

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.68 / 77
p0 4.769 ± 0.6592
pull
Entries 78
Mean −4.668
Std Dev 16.07
pull1D
Entries 78
Mean −0.01661
Std Dev 0.5955

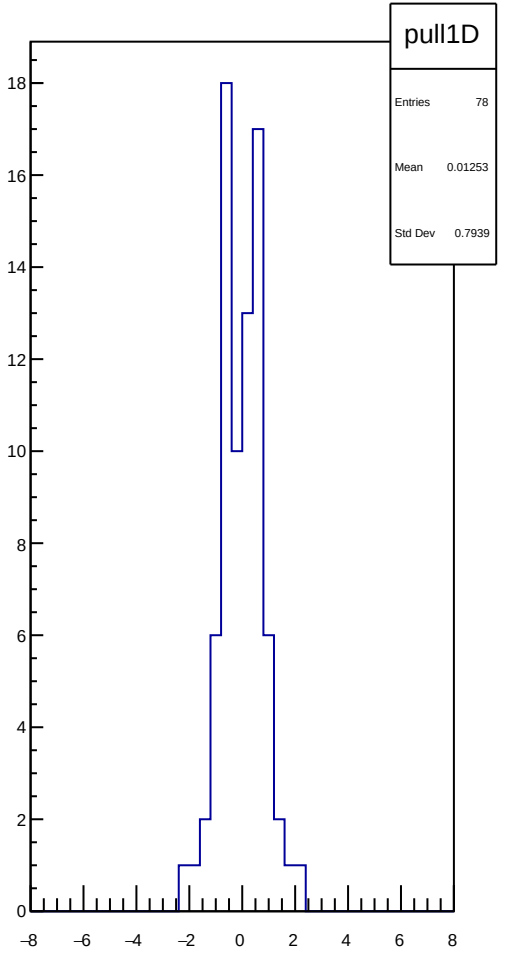

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.94 / 77
p0 70.95 ± 1.298
pull
Entries 78
Mean −142.9
Std Dev 151.6

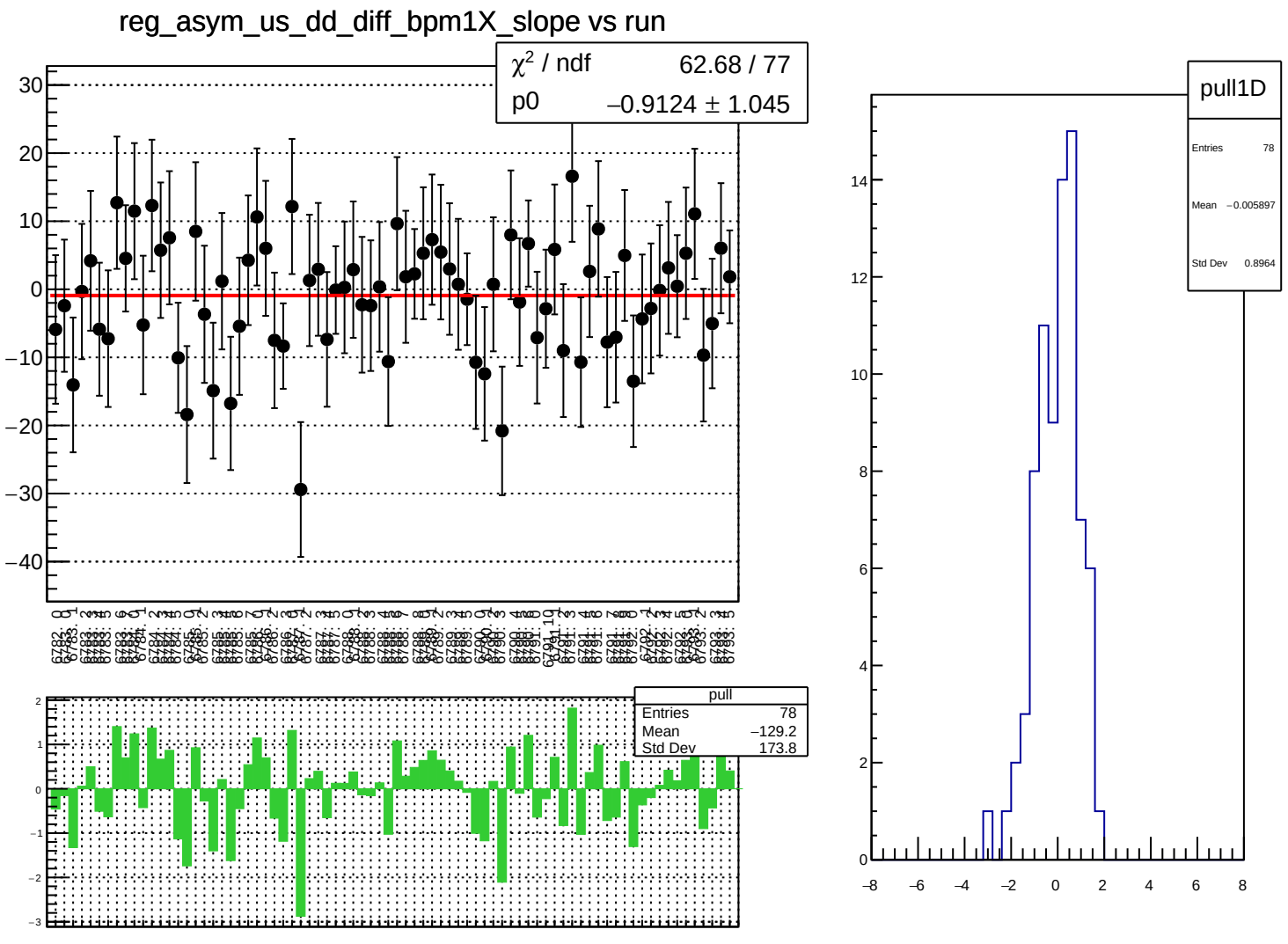

pull1D
Entries 78
Mean 0.00984
Std Dev 0.7065

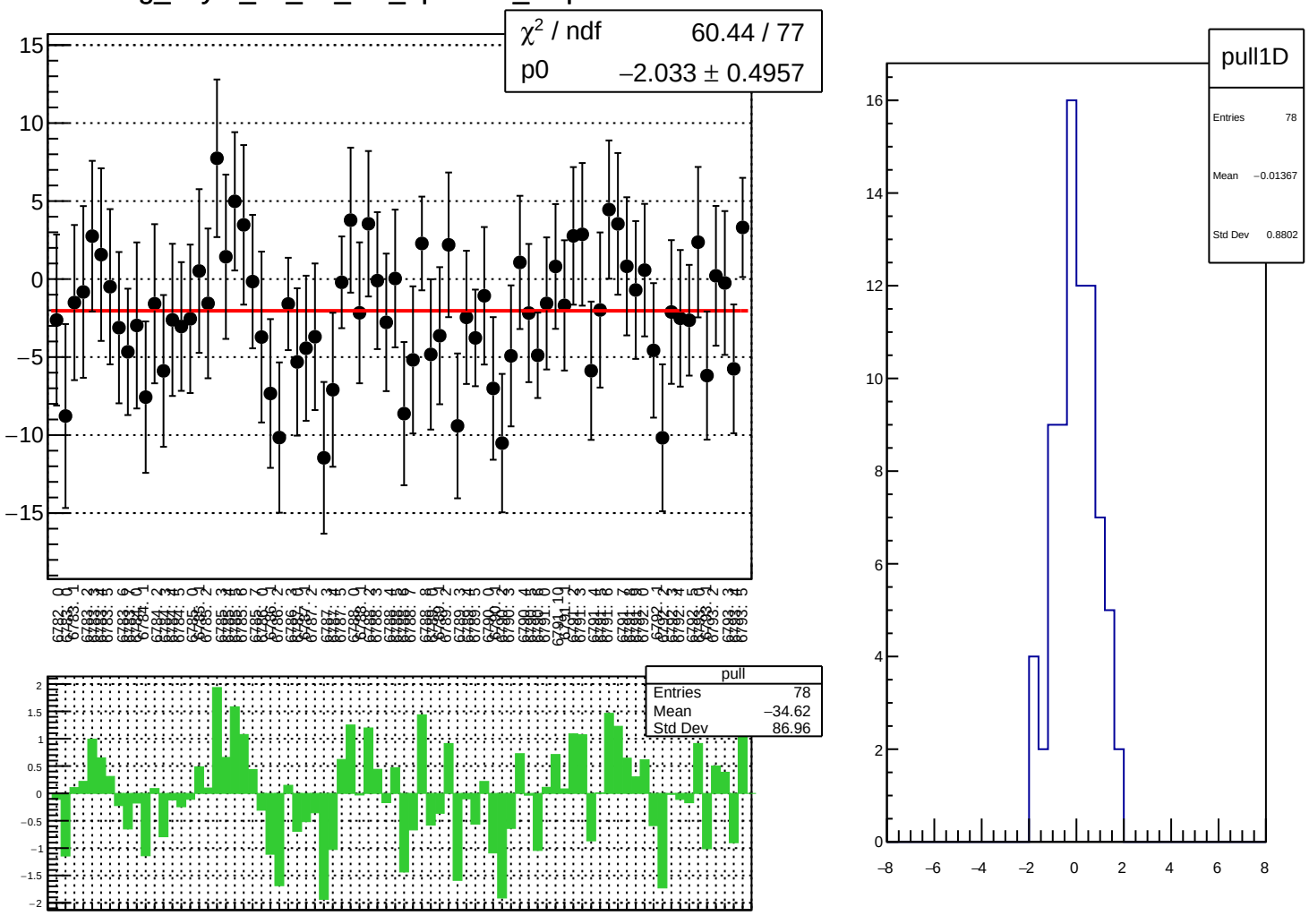

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.37 / 77
p0 11.35 ± 0.9087
pull
Entries 78
Mean −9.719
Std Dev 18.03

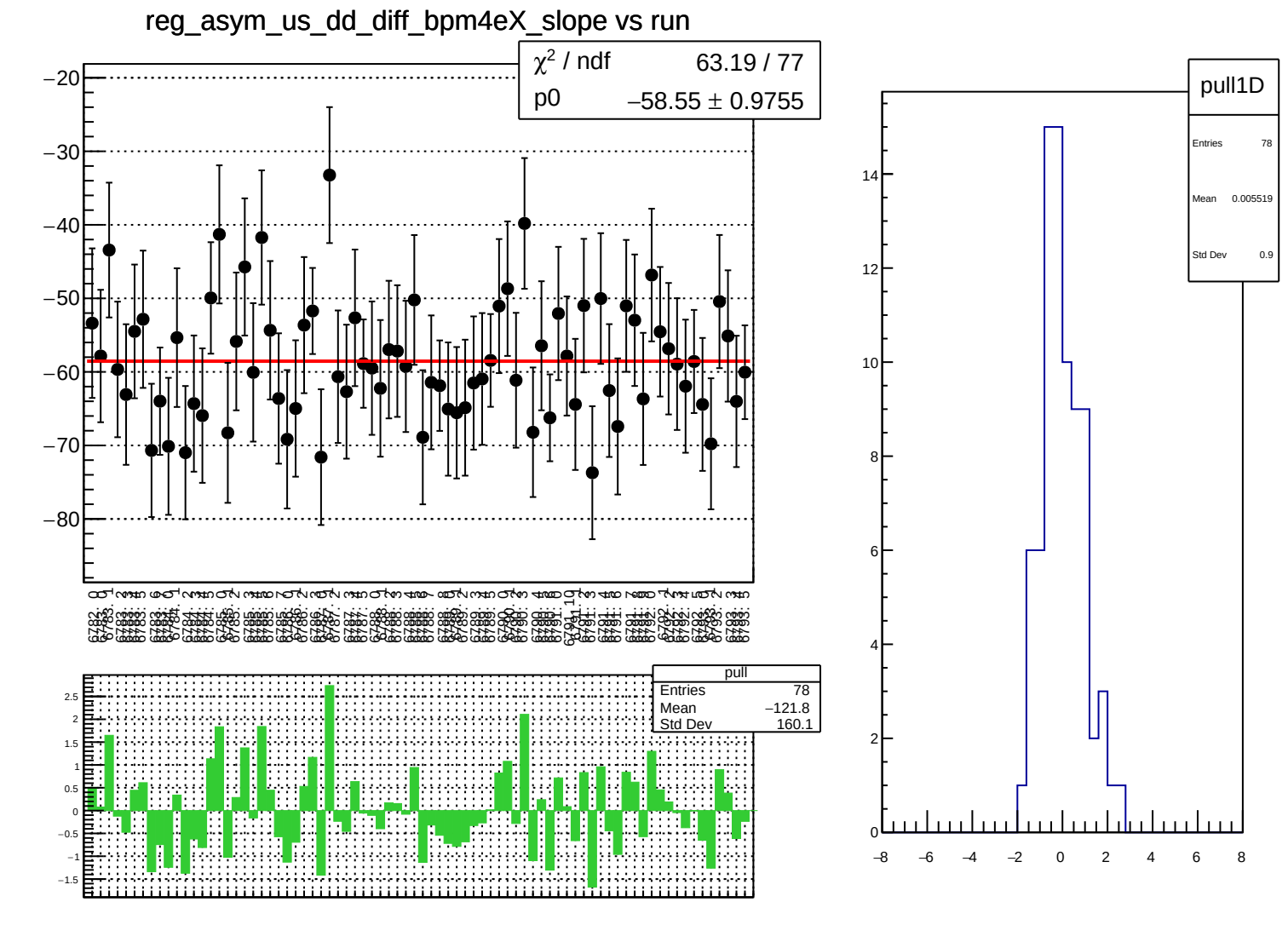

pull1D
Entries 78
Mean 0.01496
Std Dev 0.6135

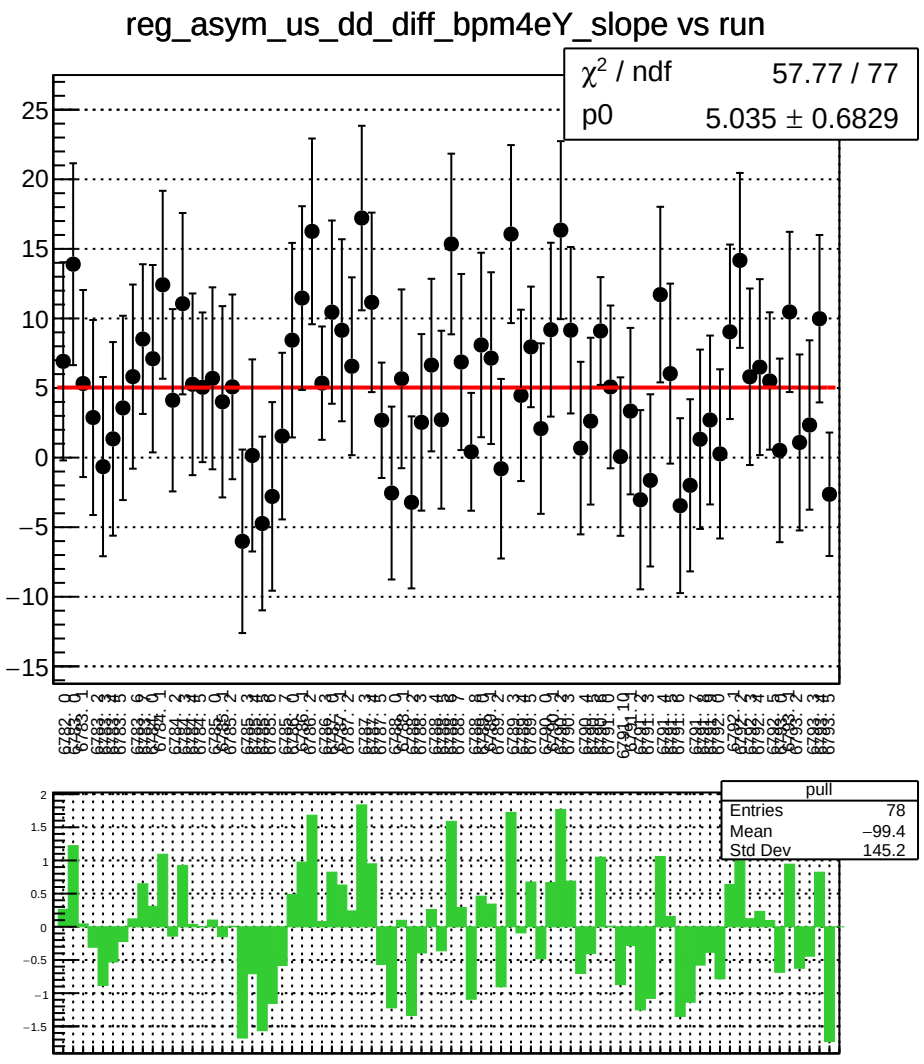

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 49.18 / 77
p0 −38.31 ± 0.06112
pull
Entries 78
Mean −56.68
Std Dev 93.99

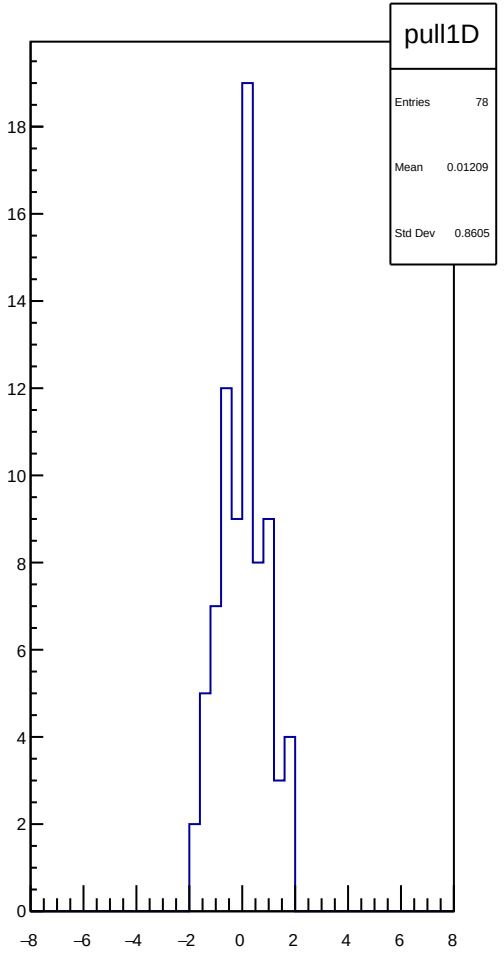

pull1D
Entries 78
Mean 0.01253
Std Dev 0.7939

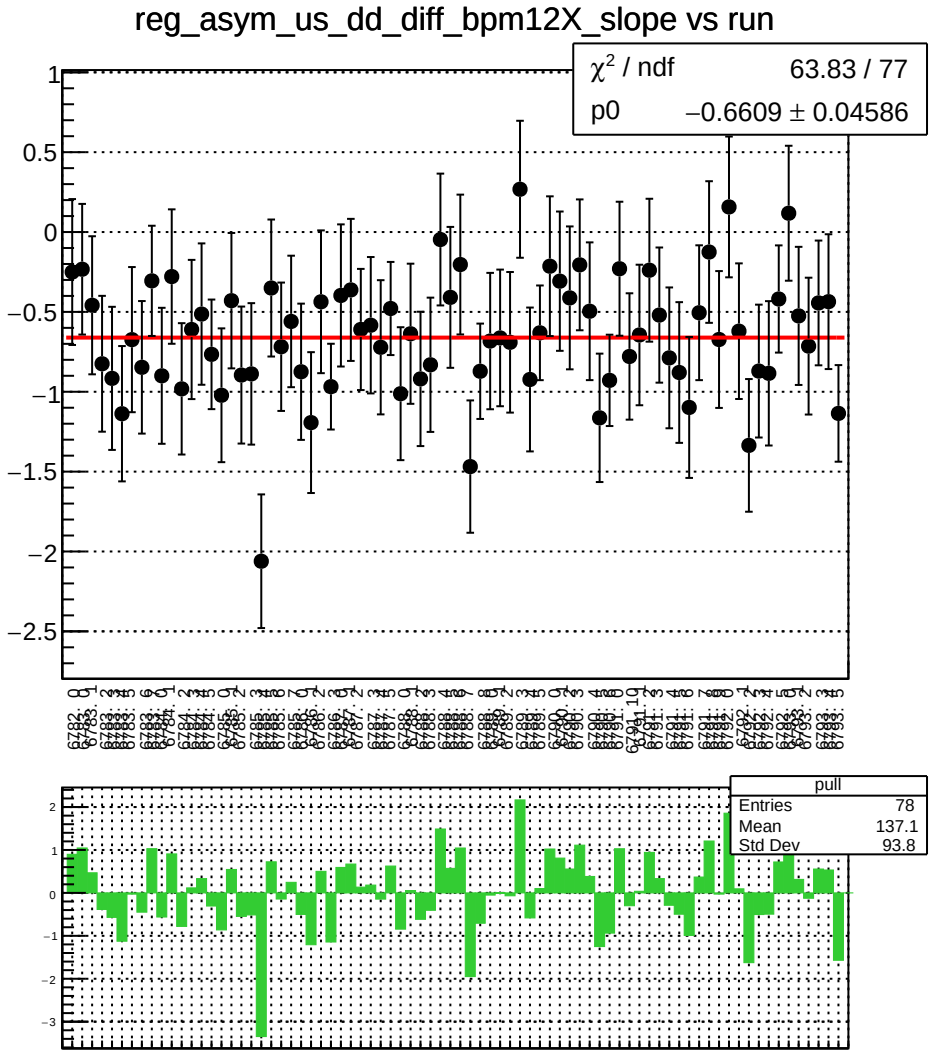

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 62.68 / 77
p0 −0.9124 ± 1.045
pull
Entries 78
Mean −129.2
Std Dev 173.8
pull1D
Entries 78
Mean −0.005897
Std Dev 0.8964

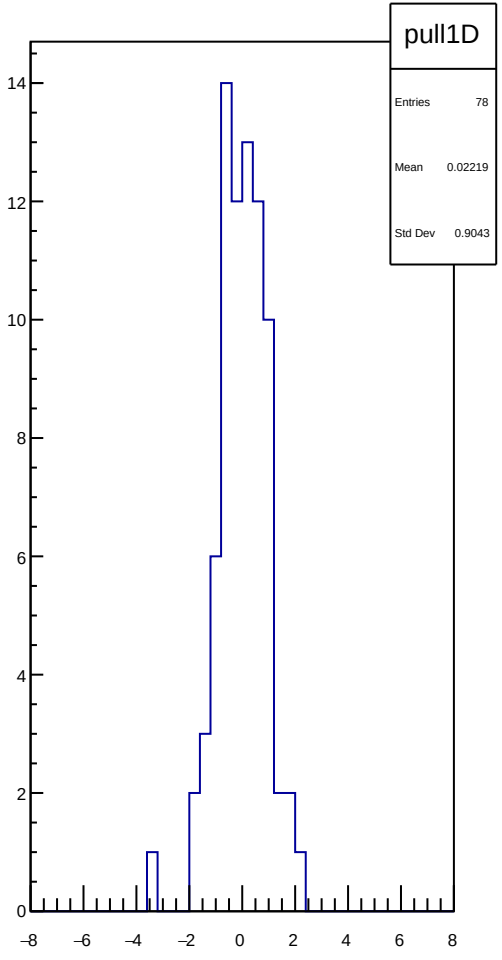

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.44 / 77
p0 −2.033 ± 0.4957
pull
Entries 78
Mean −34.62
Std Dev 86.96
pull1D
Entries 78
Mean −0.01367
Std Dev 0.8802

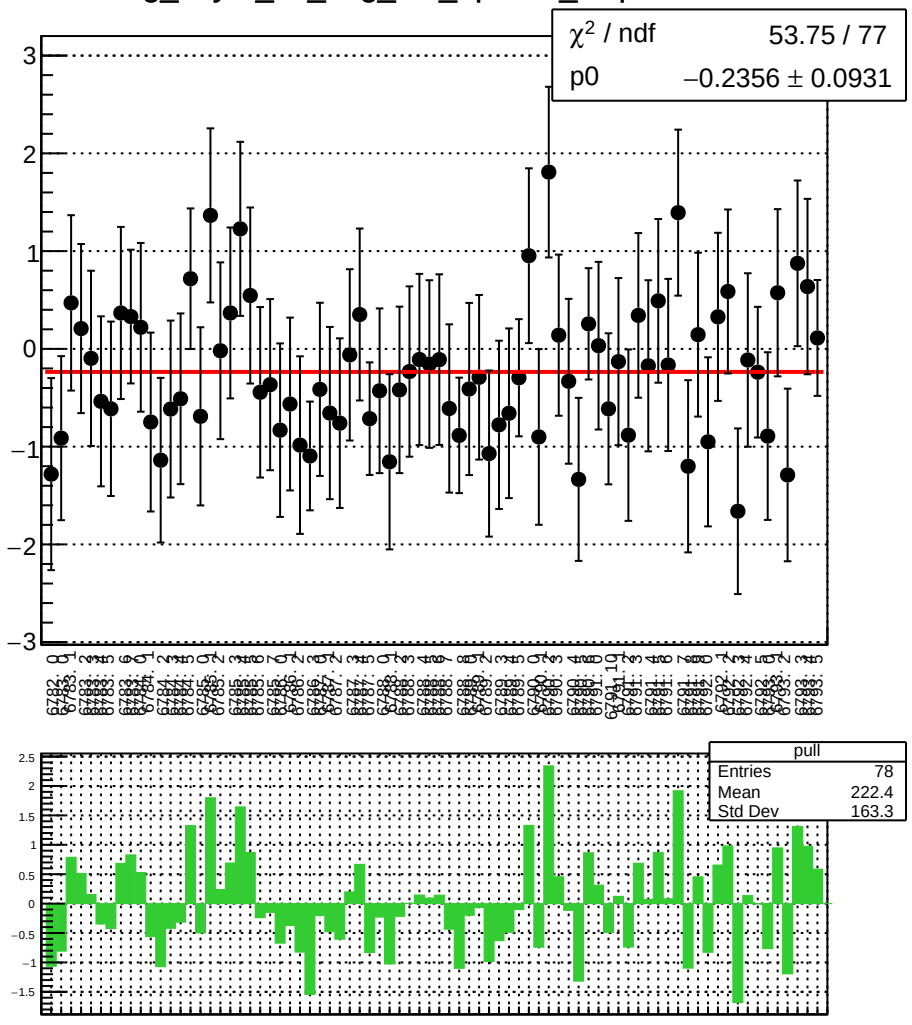

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.19 / 77
p0 −58.55 ± 0.9755
pull
Entries 78
Mean −121.8
Std Dev 160.1
pull1D
Entries 78
Mean 0.005519
Std Dev 0.9

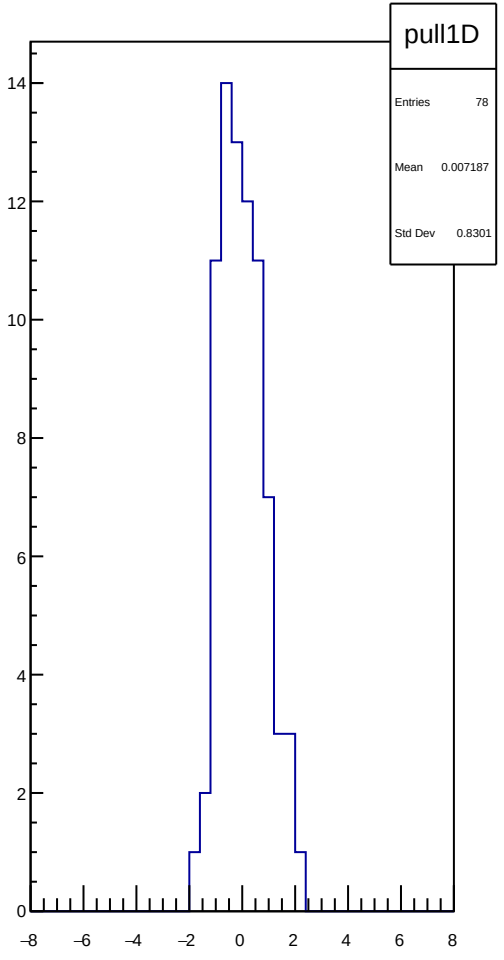

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.77 / 77
p0 5.035 ± 0.6829
pull
Entries 78
Mean −99.4
Std Dev 145.2

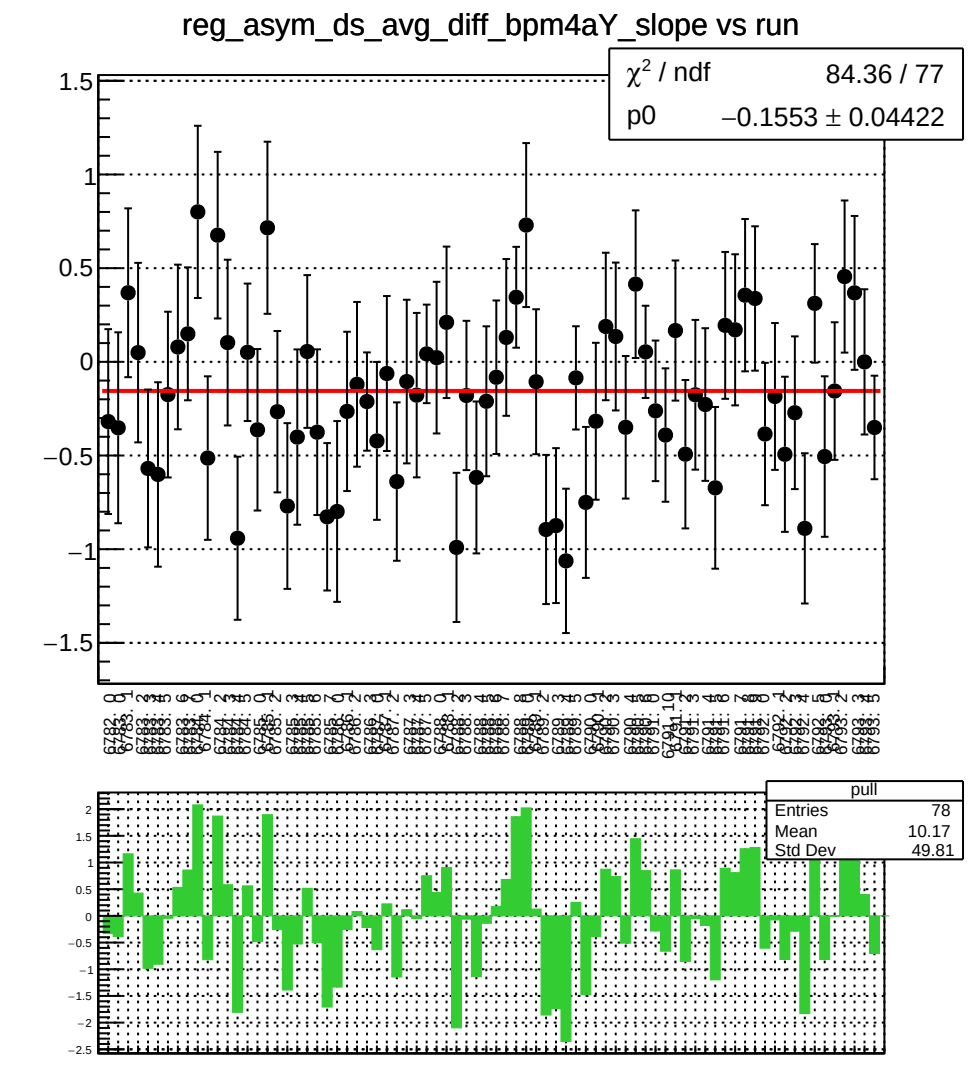

pull1D
Entries 78
Mean 0.01209
Std Dev 0.8605

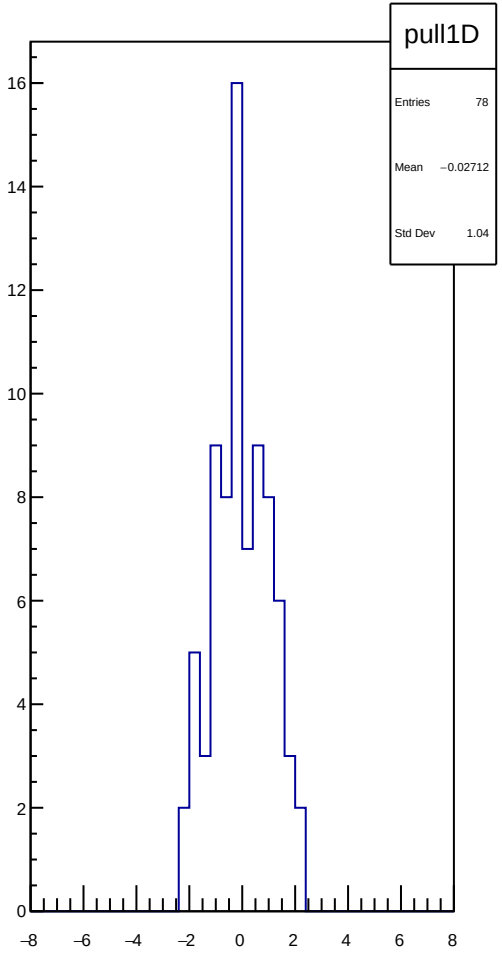

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 63.83 / 77
p0 −0.6609 ± 0.04586
pull
Entries 78
Mean 137.1
Std Dev 93.8

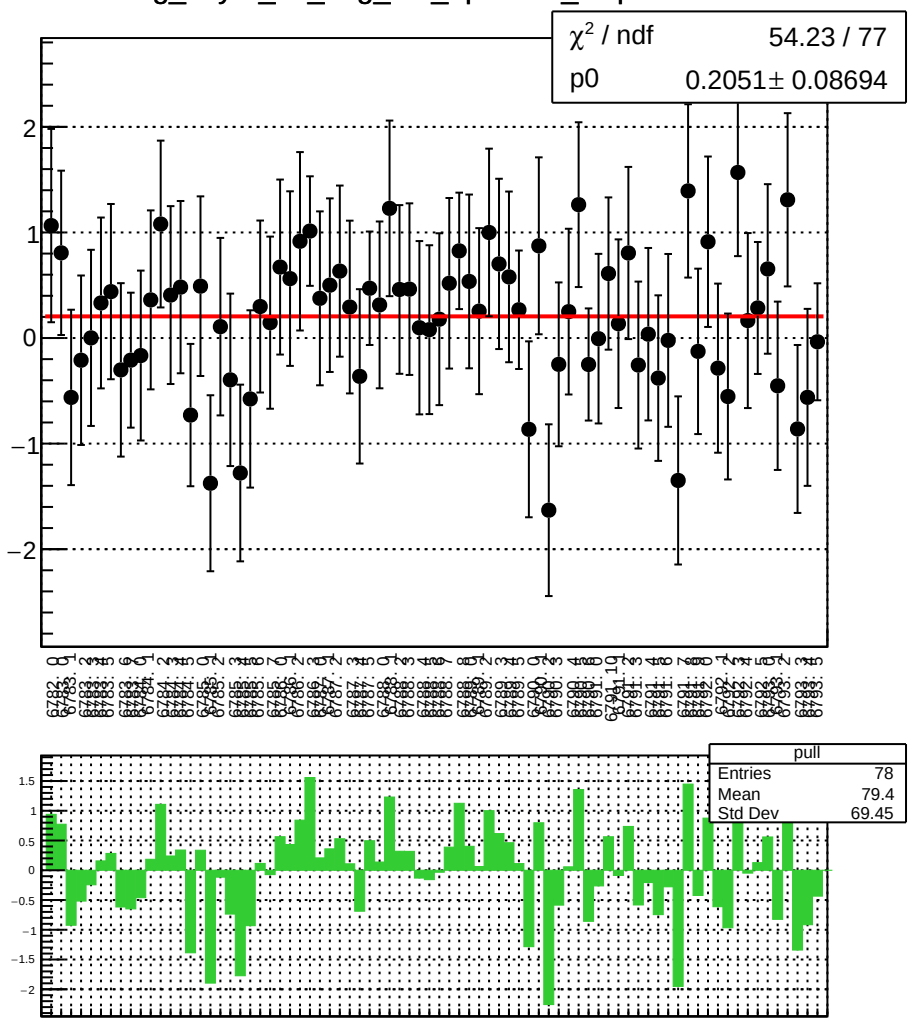

pull1D
Entries 78
Mean 0.02219
Std Dev 0.9043

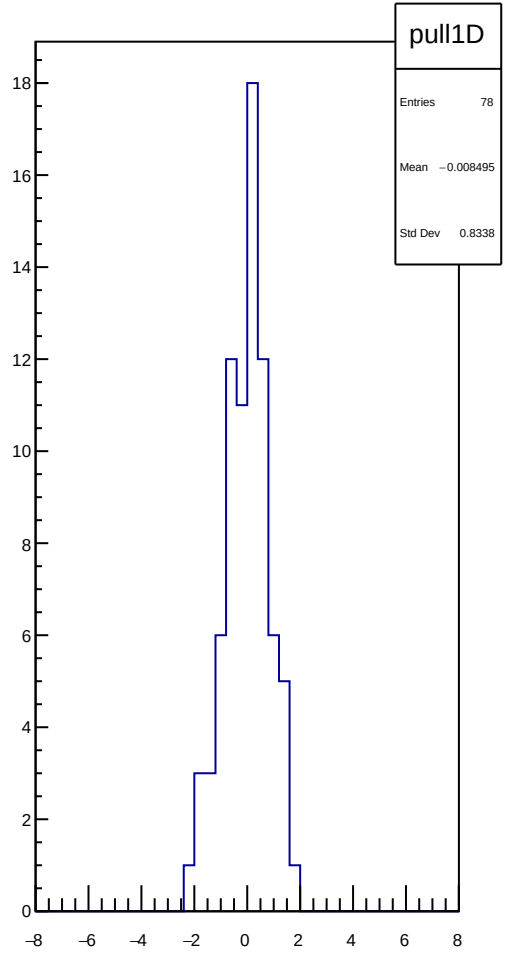

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 53.75 / 77
p0 −0.2356 ± 0.0931
pull
Entries 78
Mean 222.4
Std Dev 163.3

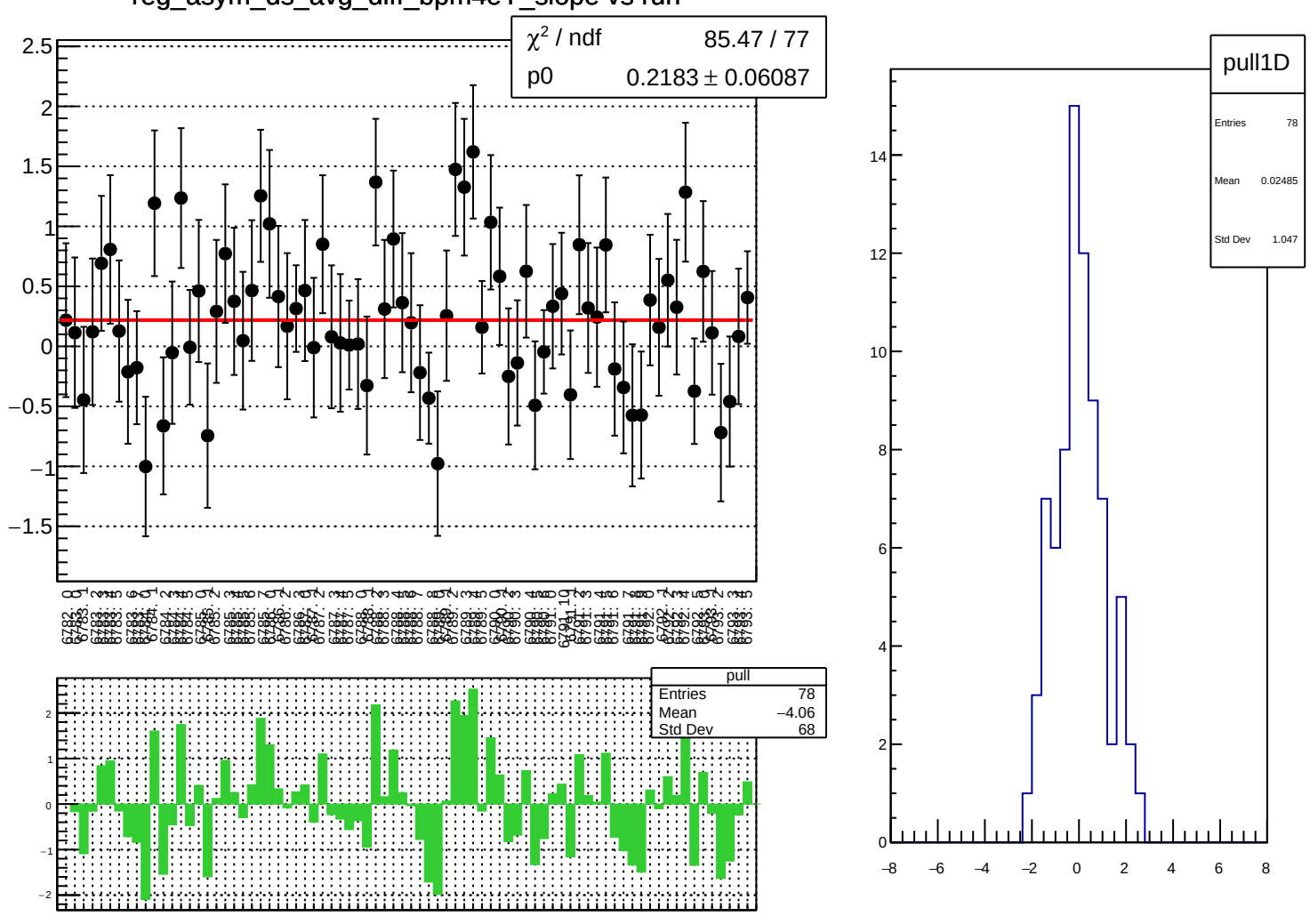

pull1D
Entries 78
Mean 0.007187
Std Dev 0.8301

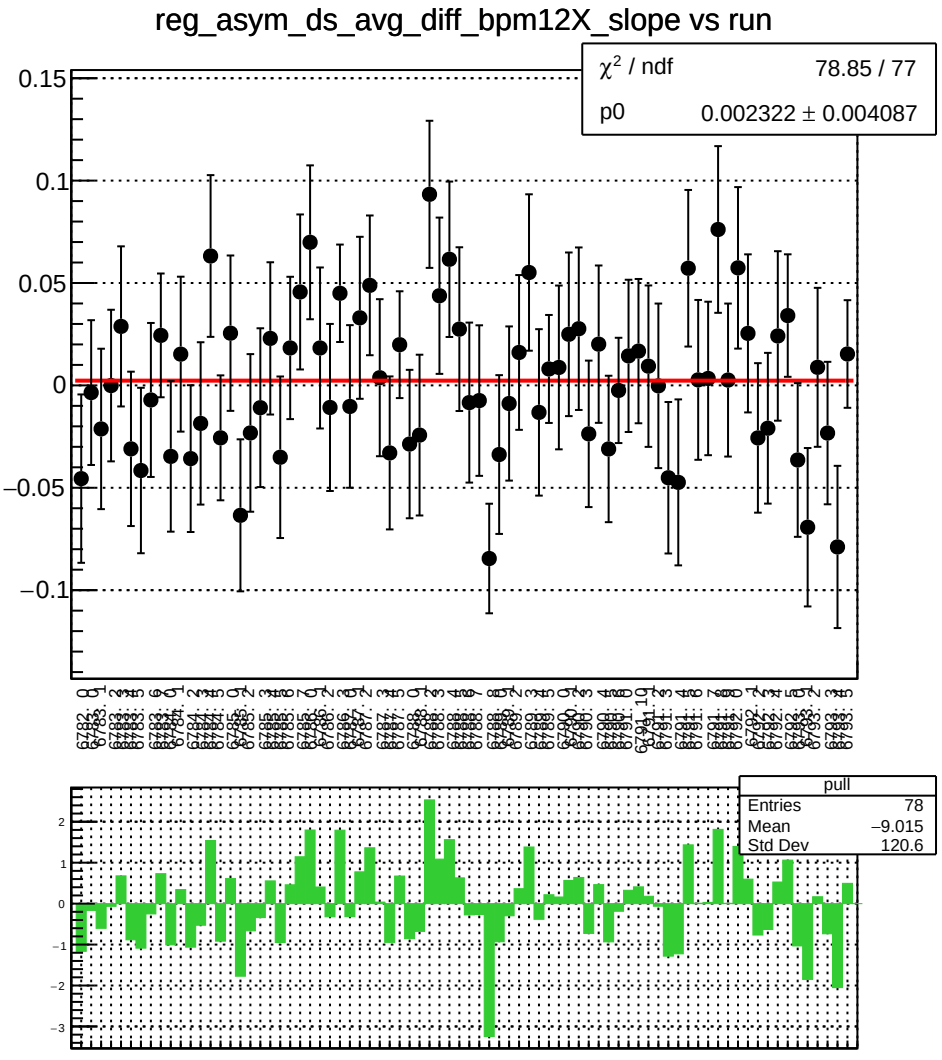

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 84.36 / 77
p0 −0.1553 ± 0.04422
pull
Entries 78
Mean 10.17
Std Dev 49.81

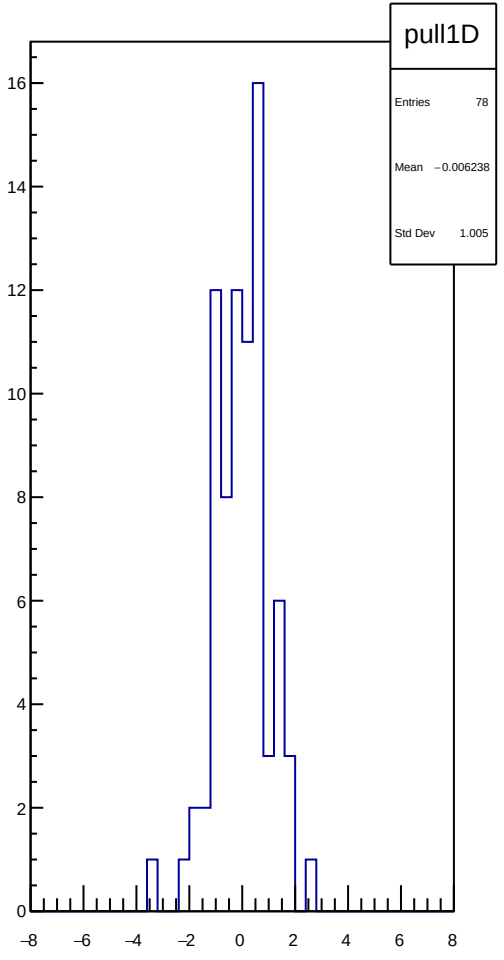

pull1D
Entries 78
Mean −0.02712
Std Dev 1.04

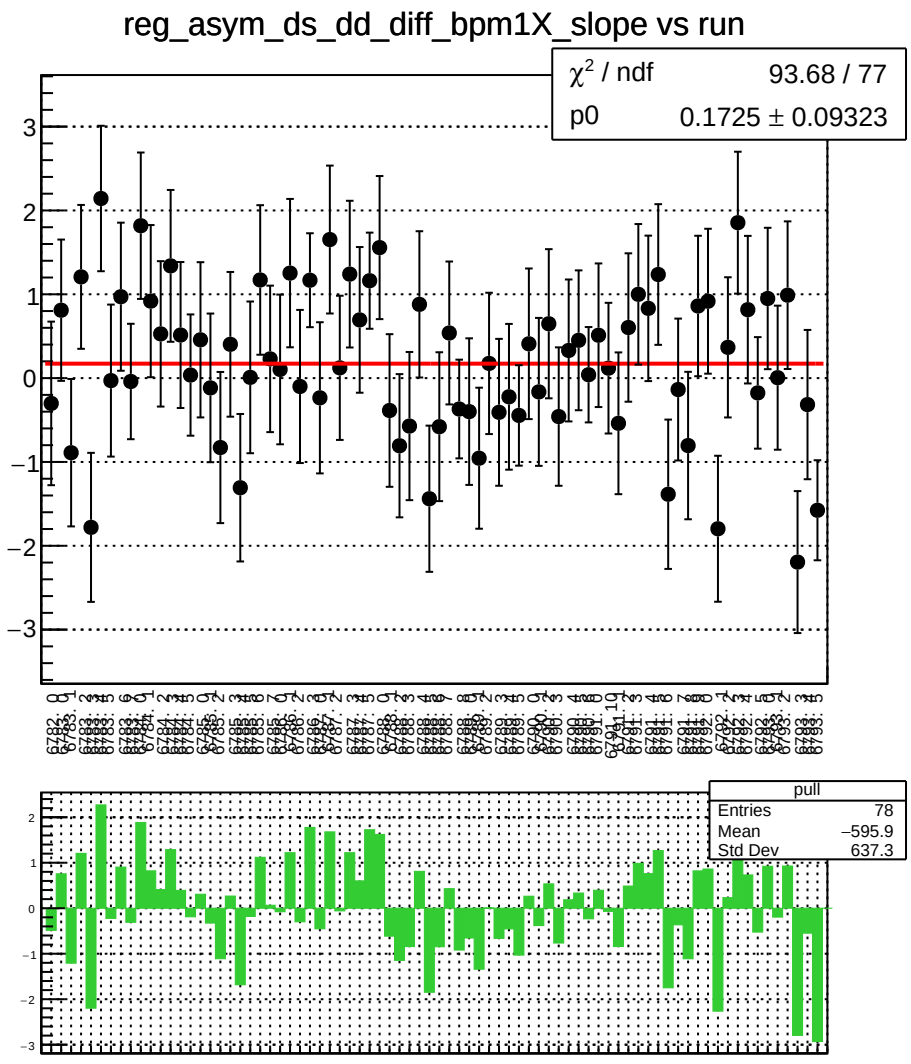

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.23 / 77
p0 0.2051± 0.08694
pull
Entries 78
Mean 79.4
Std Dev 69.45

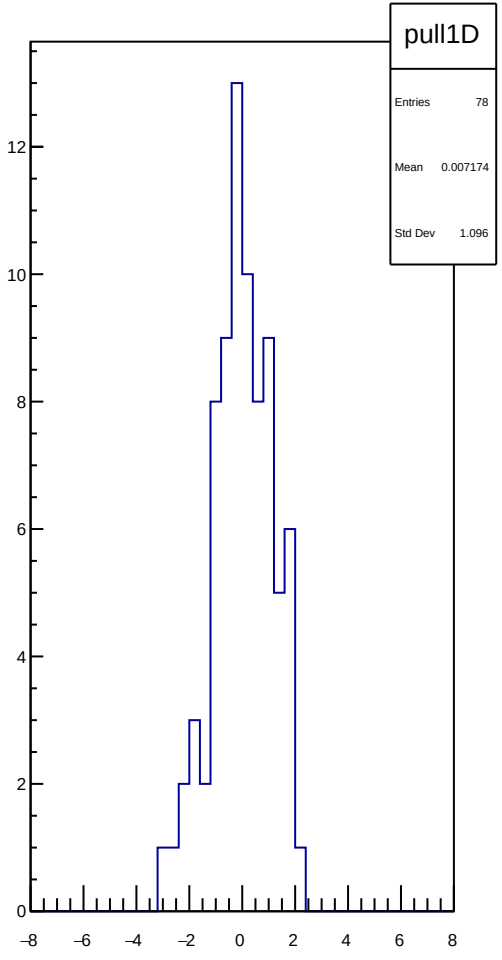

pull1D
Entries 78
Mean −0.008495
Std Dev 0.8338

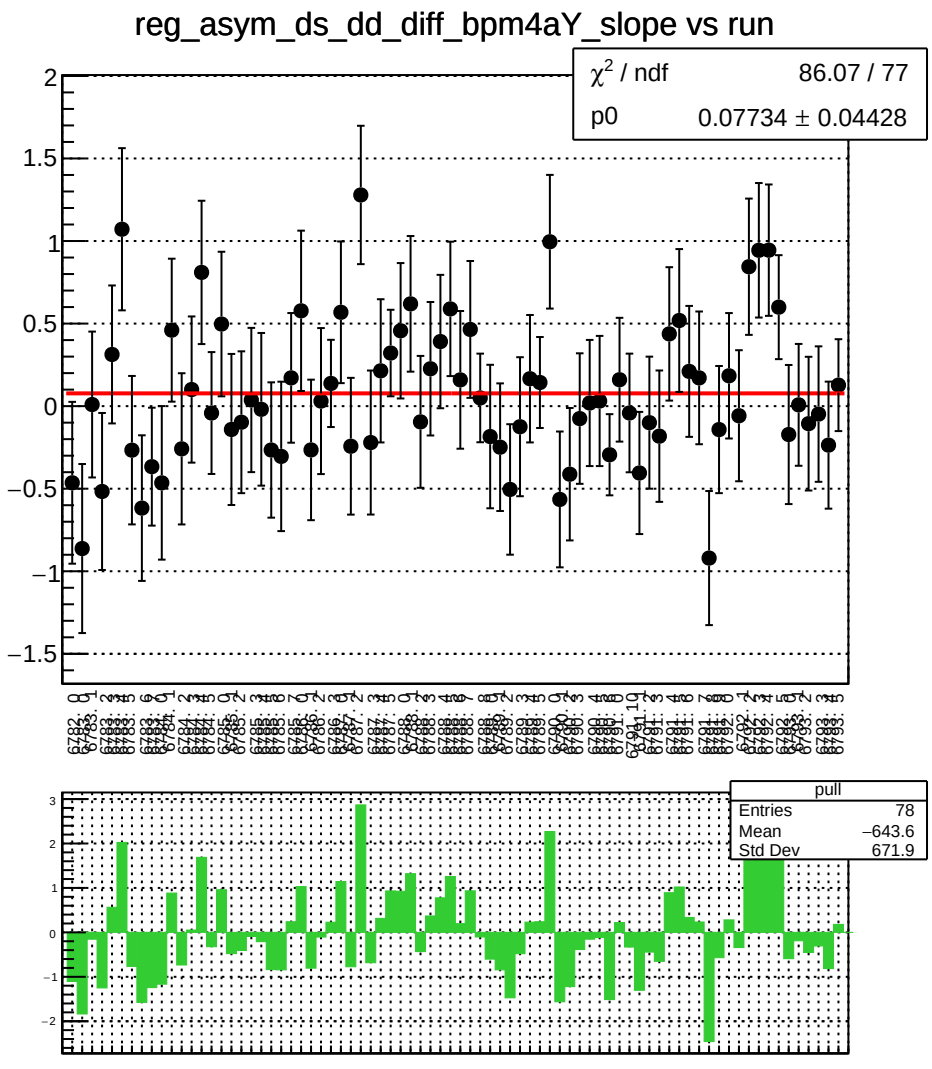

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 85.47 / 77
p0 0.2183 ± 0.06087
pull
Entries 78
Mean −4.06
Std Dev 68
pull1D
Entries 78
Mean 0.02485
Std Dev 1.047

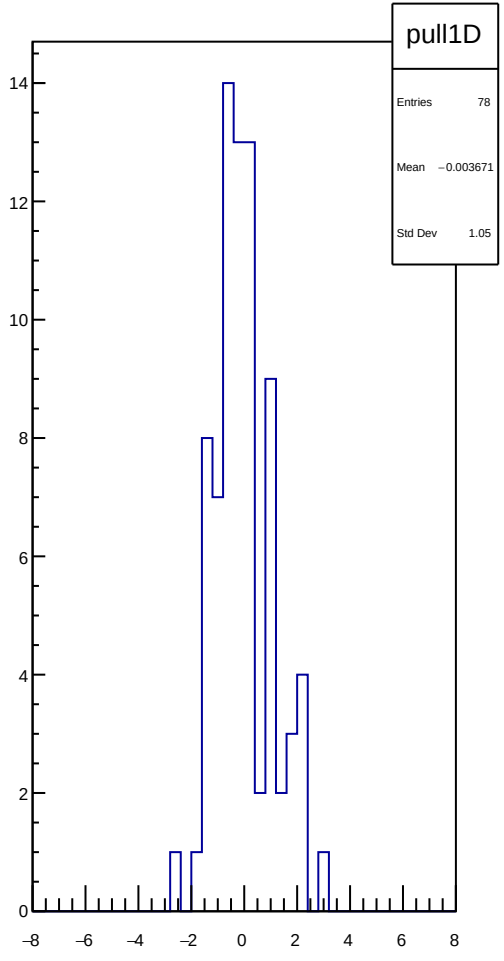

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 78.85 / 77
p0 0.002322 ± 0.004087
pull
Entries 78
Mean −9.015
Std Dev 120.6

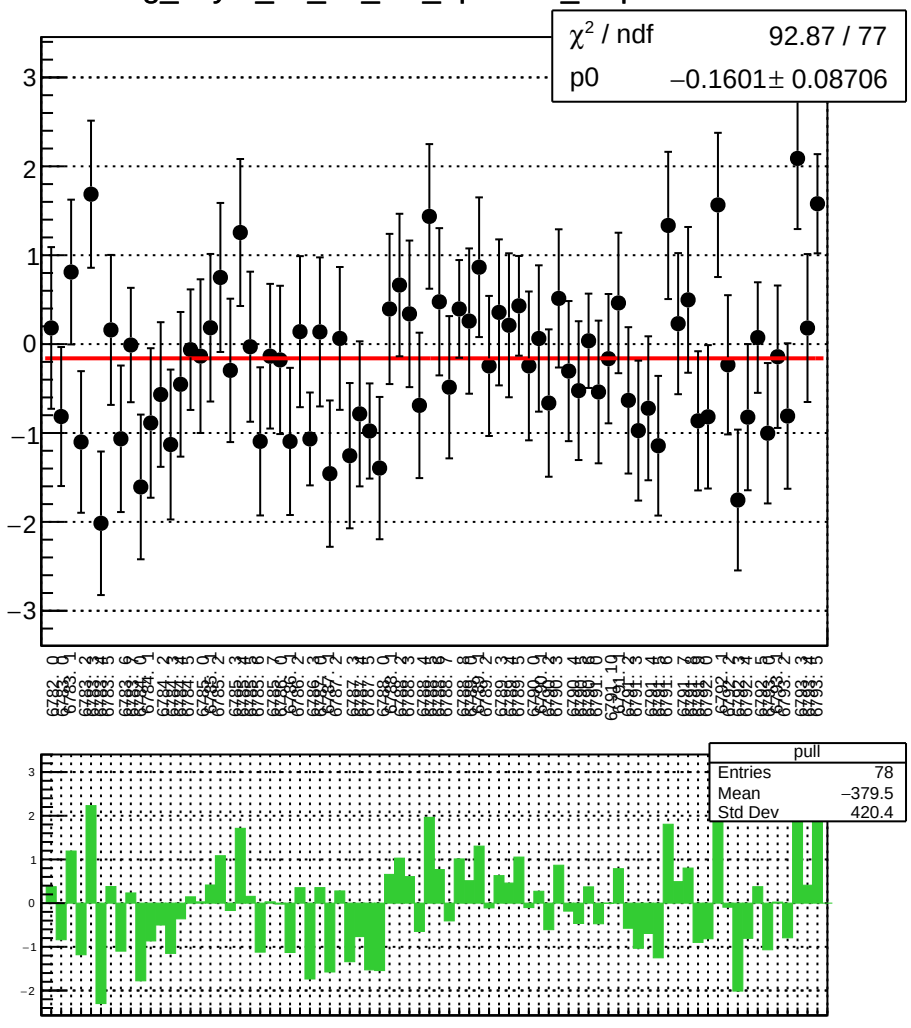

pull1D
Entries 78
Mean −0.006238
Std Dev 1.005

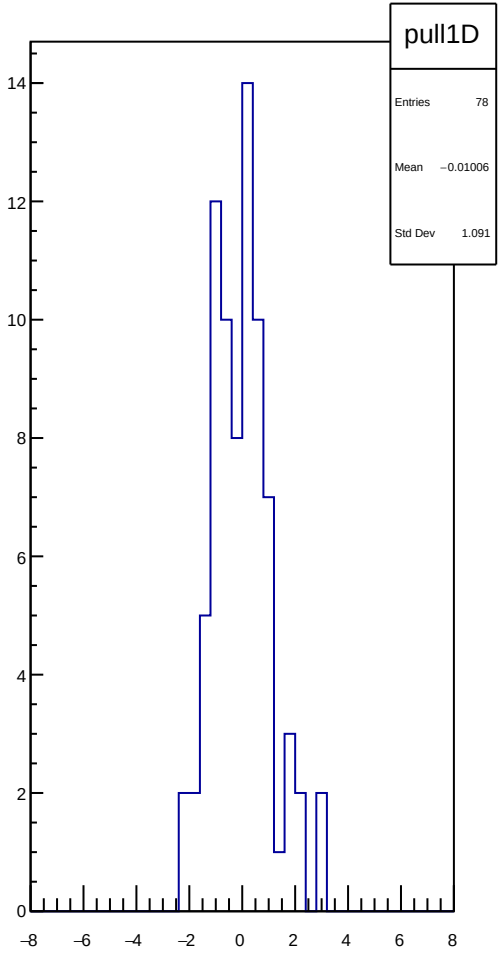

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ^2 / ndf 93.68 / 77
p0 0.1725 ± 0.09323
pull
Entries 78
Mean −595.9
Std Dev 637.3

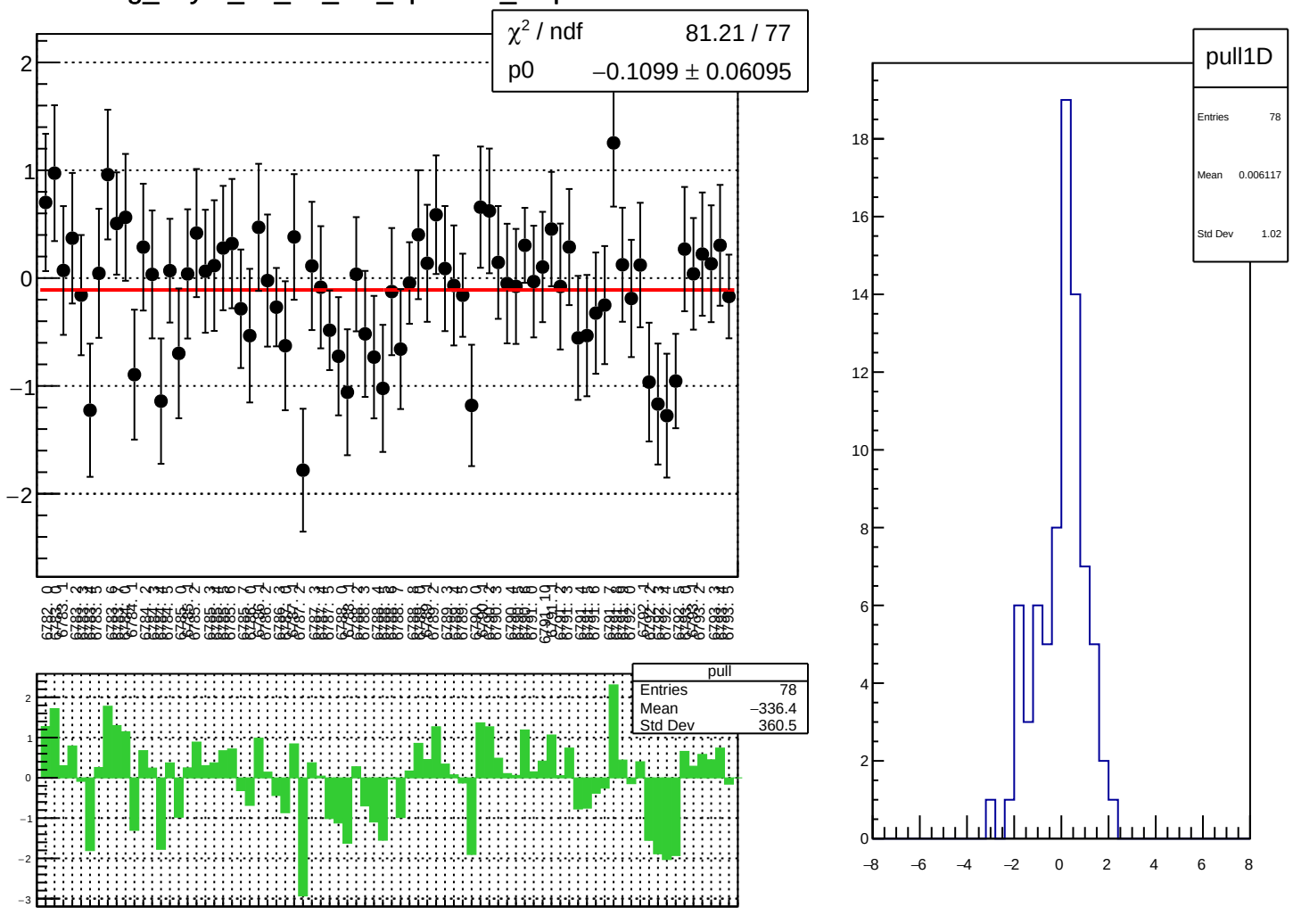

pull1D
Entries 78
Mean 0.007174
Std Dev 1.096

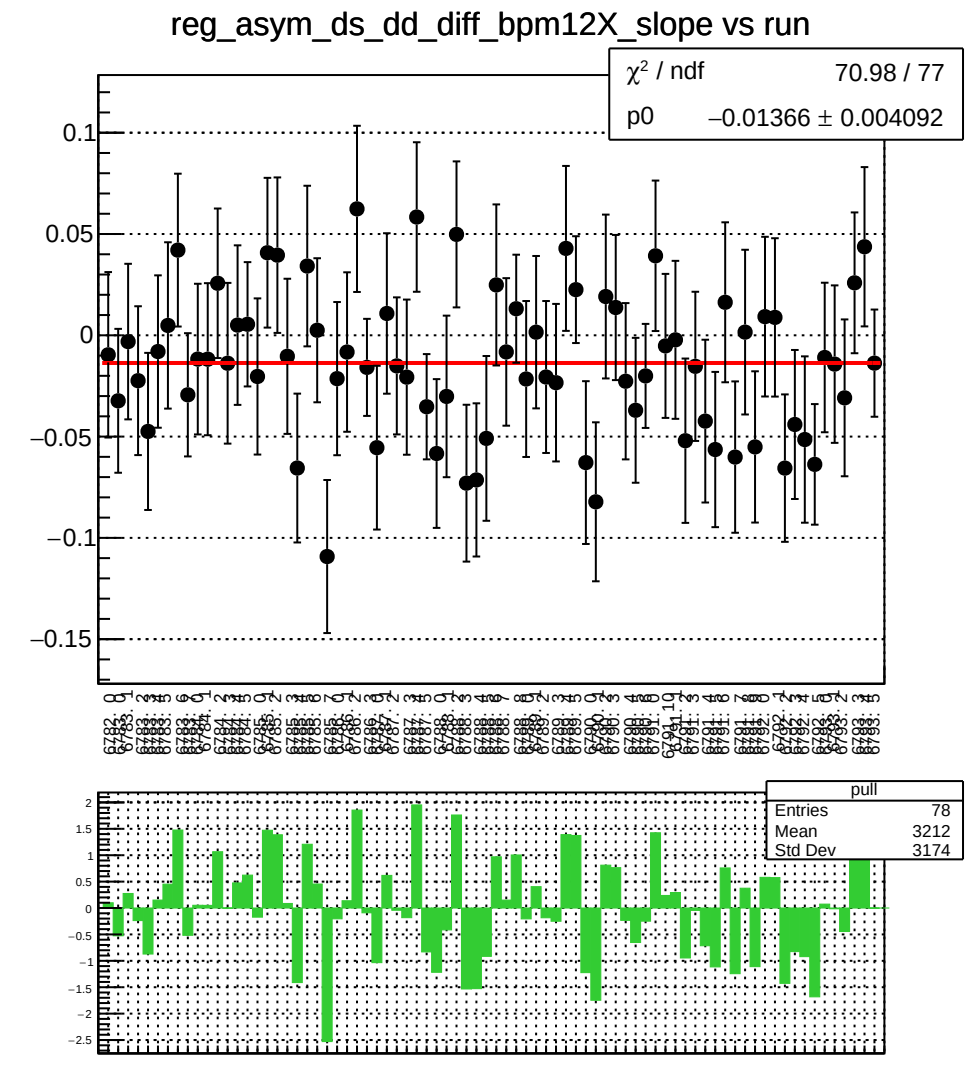

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.07 / 77
p0 0.07734 ± 0.04428
pull
Entries 78
Mean −643.6
Std Dev 671.9

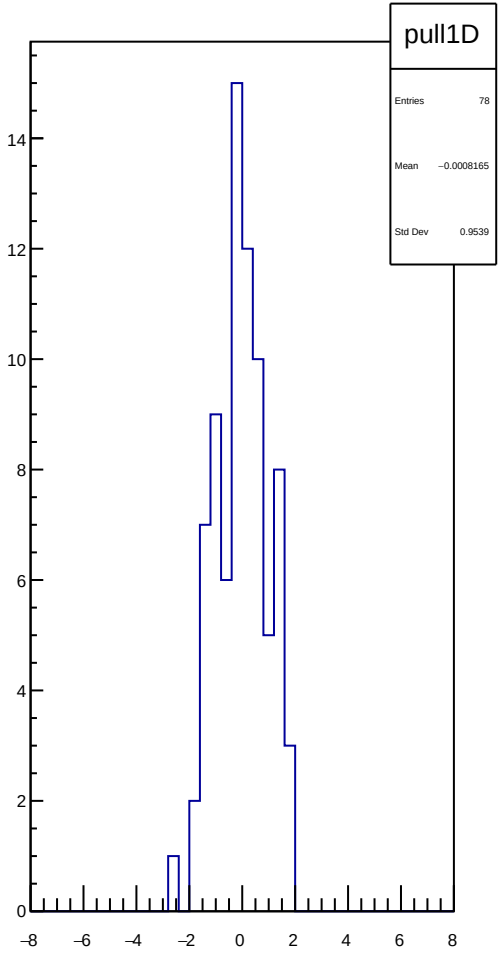

pull1D
Entries 78
Mean −0.003671
Std Dev 1.05

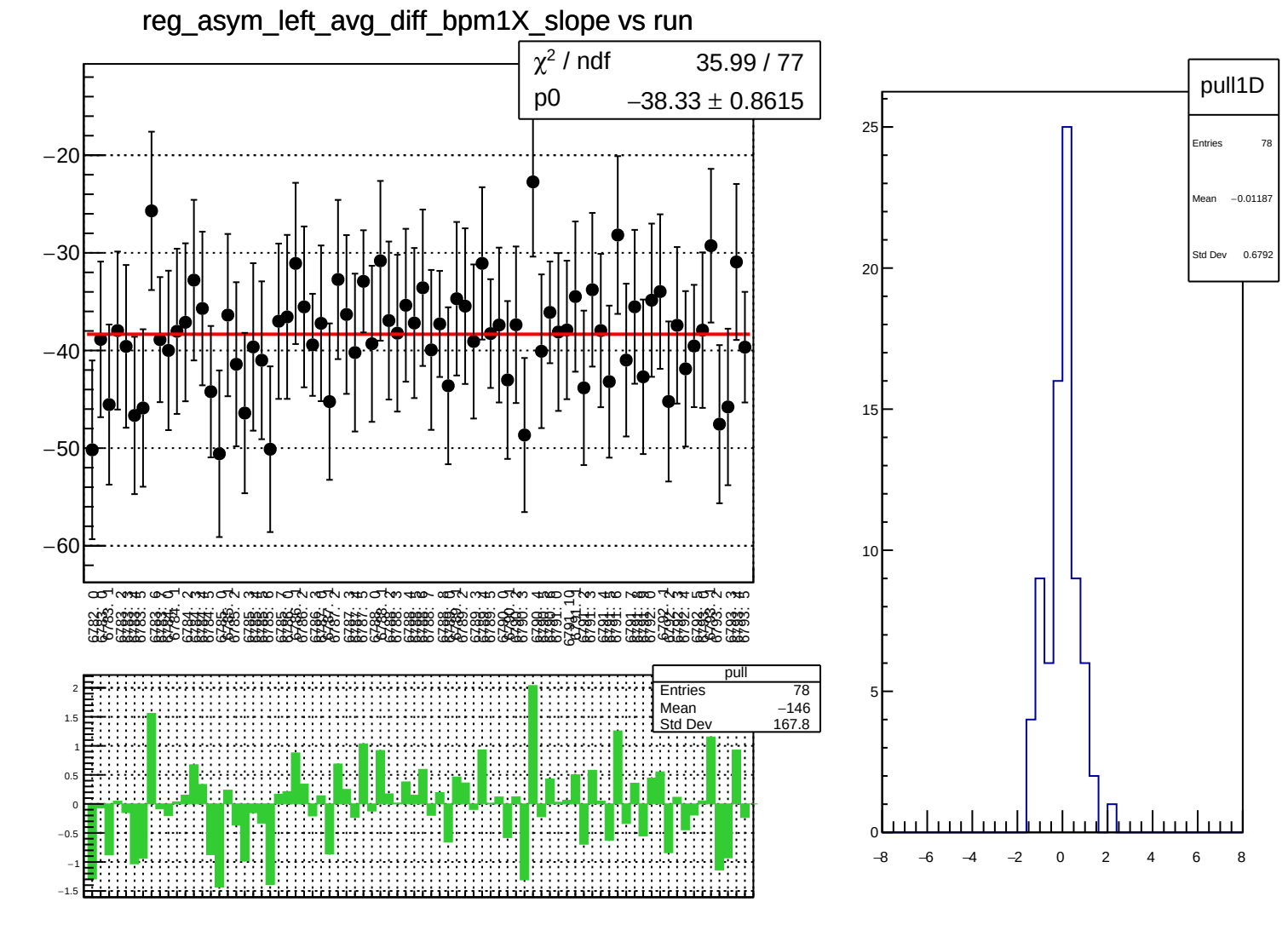

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.87 / 77
p0 −0.1601 ± 0.08706
pull
Entries 78
Mean −379.5
Std Dev 420.4

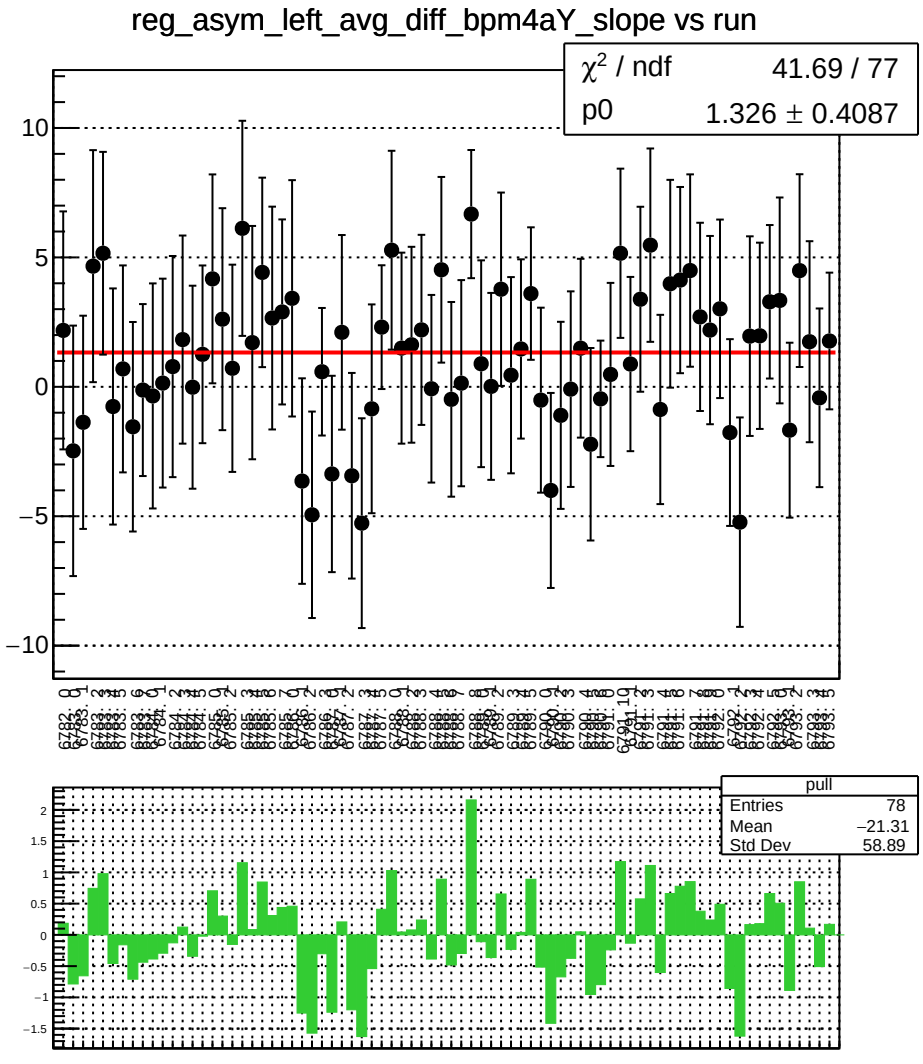

pull1D
Entries 78
Mean −0.01006
Std Dev 1.091

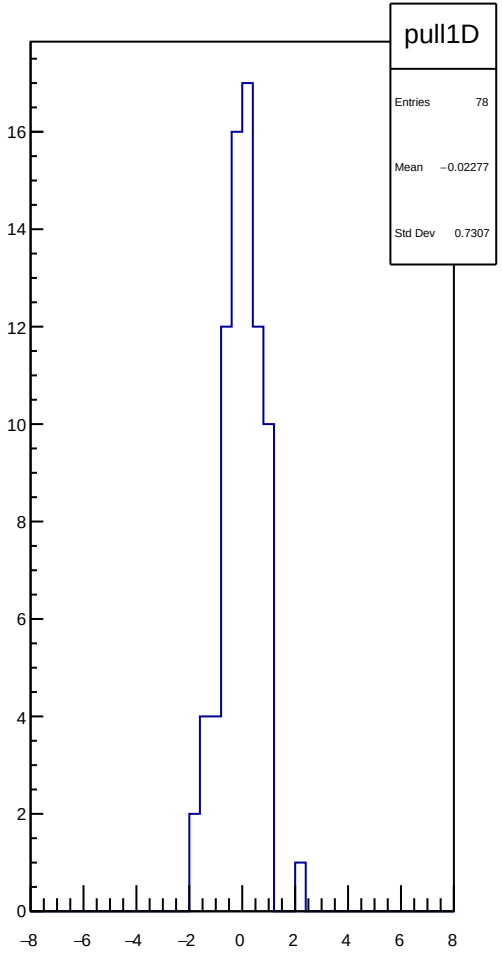

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.21 / 77
p0 −0.1099 ± 0.06095
pull
Entries 78
Mean −336.4
Std Dev 360.5
pull1D
Entries 78
Mean 0.006117
Std Dev 1.02

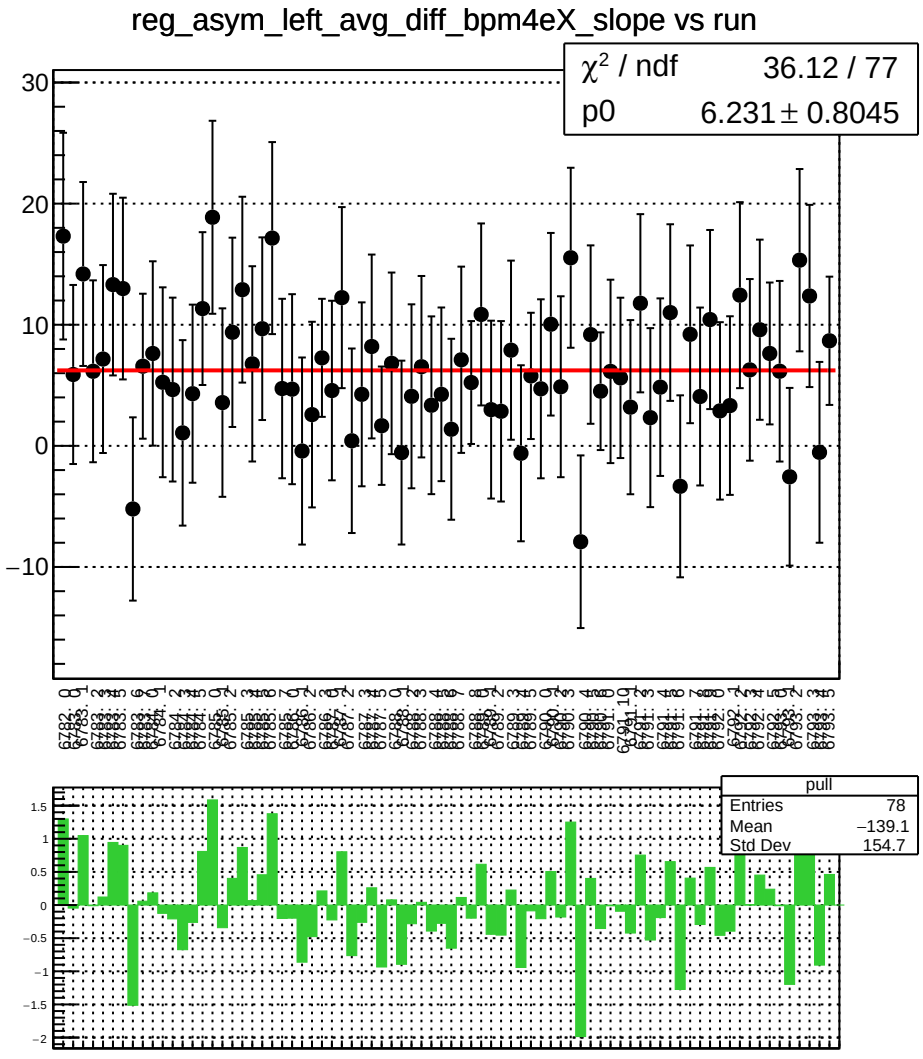

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 70.98 / 77
p0 −0.01366 ± 0.004092
pull
Entries 78
Mean 3212
Std Dev 3174

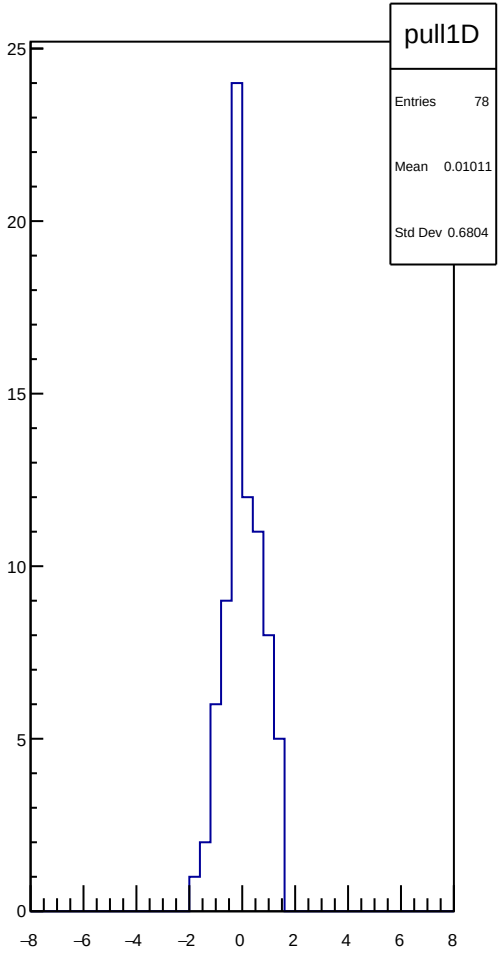

pull1D
Entries 78
Mean −0.0008165
Std Dev 0.9539

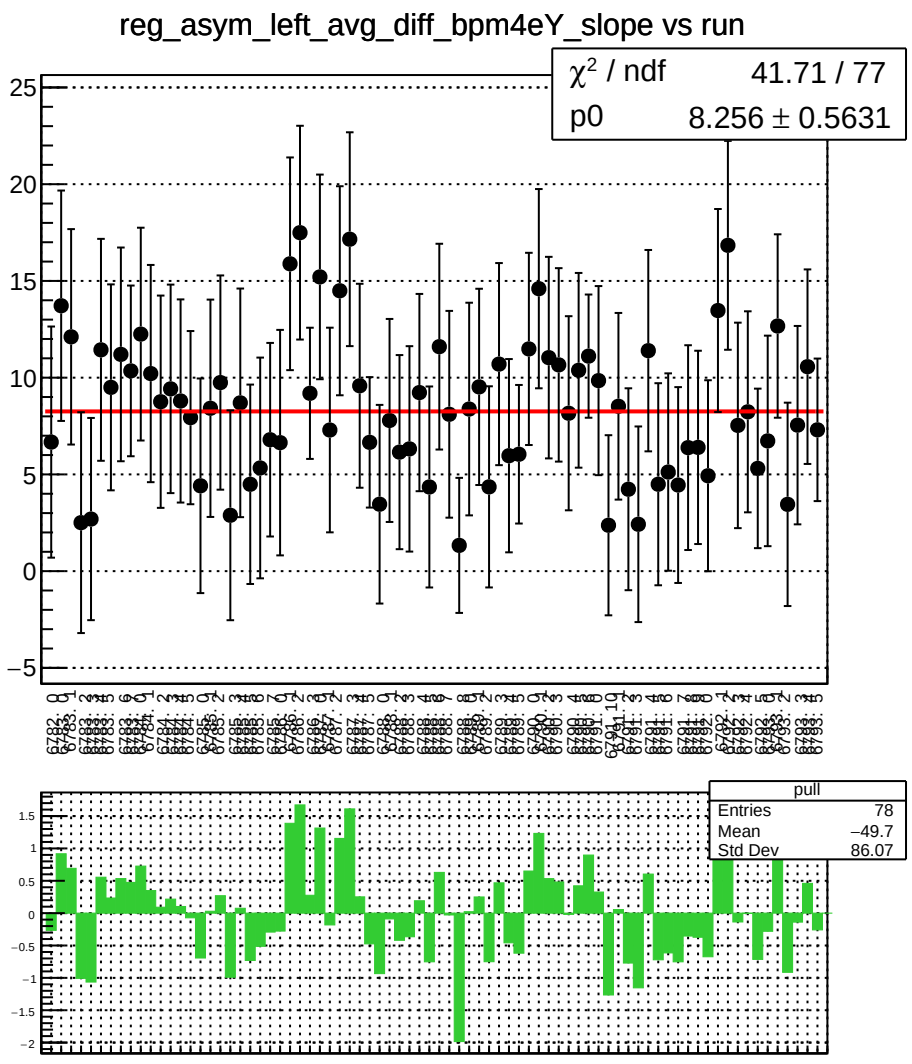

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 35.99 / 77
p0 −38.33 ± 0.8615
pull
Entries 78
Mean −146
Std Dev 167.8
pull1D
Entries 78
Mean −0.01187
Std Dev 0.6792

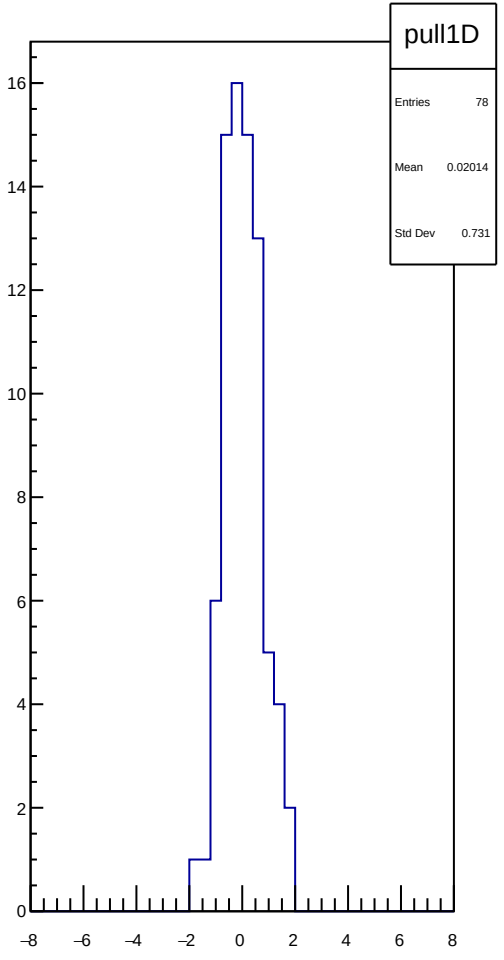

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.69 / 77
p0 1.326 ± 0.4087
pull
Entries 78
Mean −21.31
Std Dev 58.89

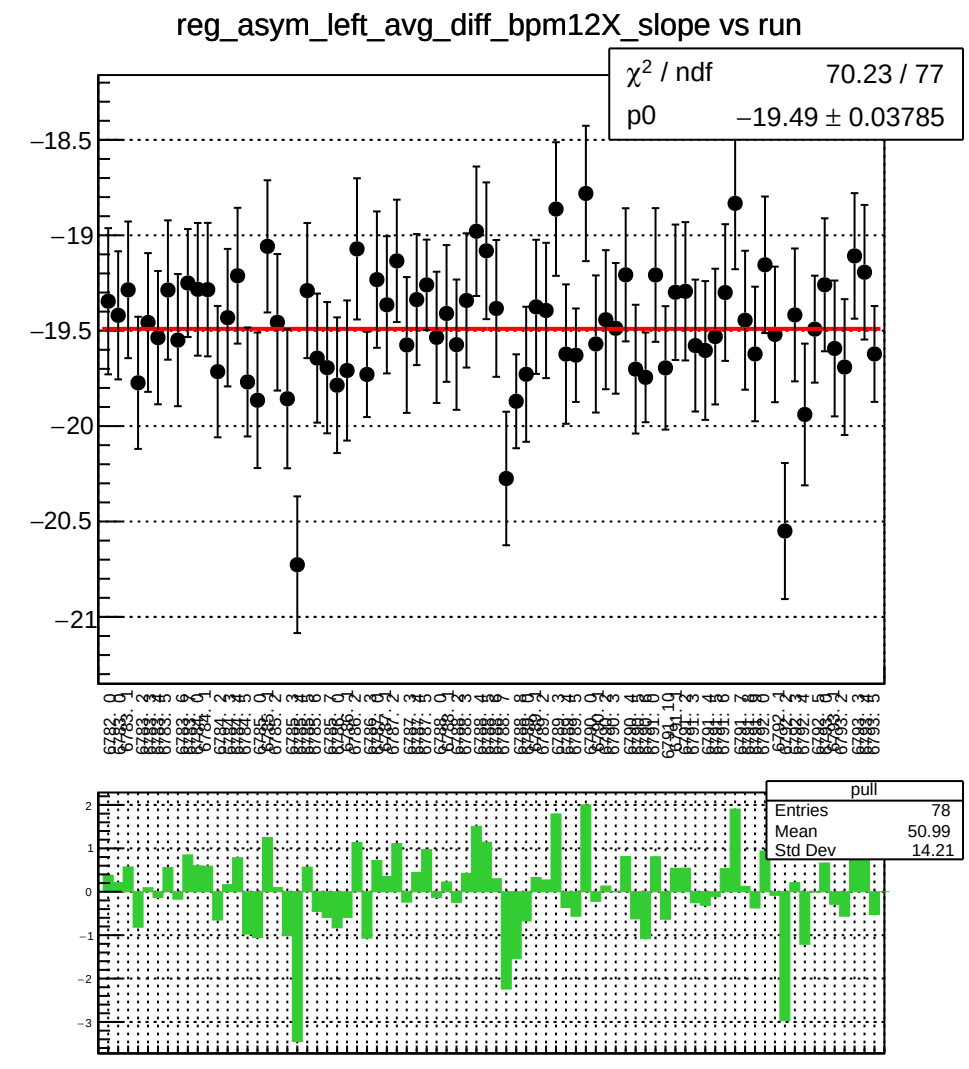

pull1D
Entries 78
Mean −0.02277
Std Dev 0.7307

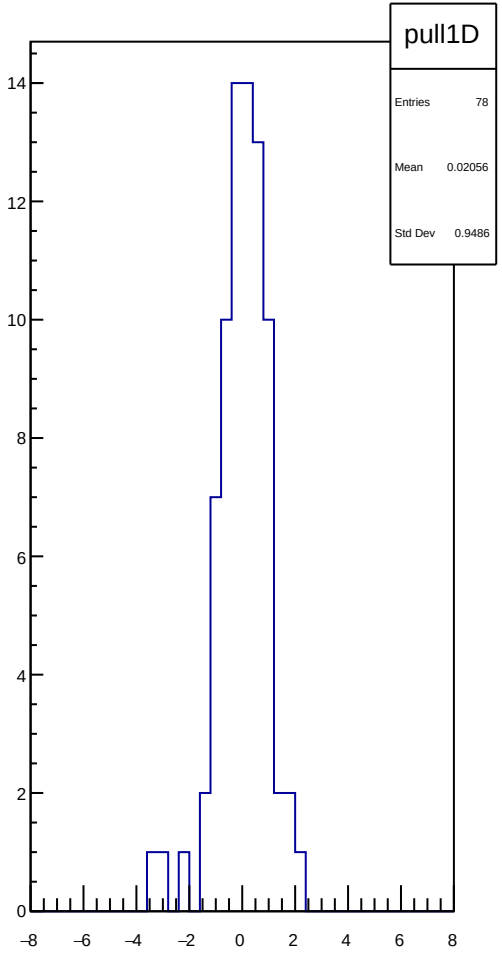

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.12 / 77
p0 6.231 ± 0.8045
pull
Entries 78
Mean −139.1
Std Dev 154.7

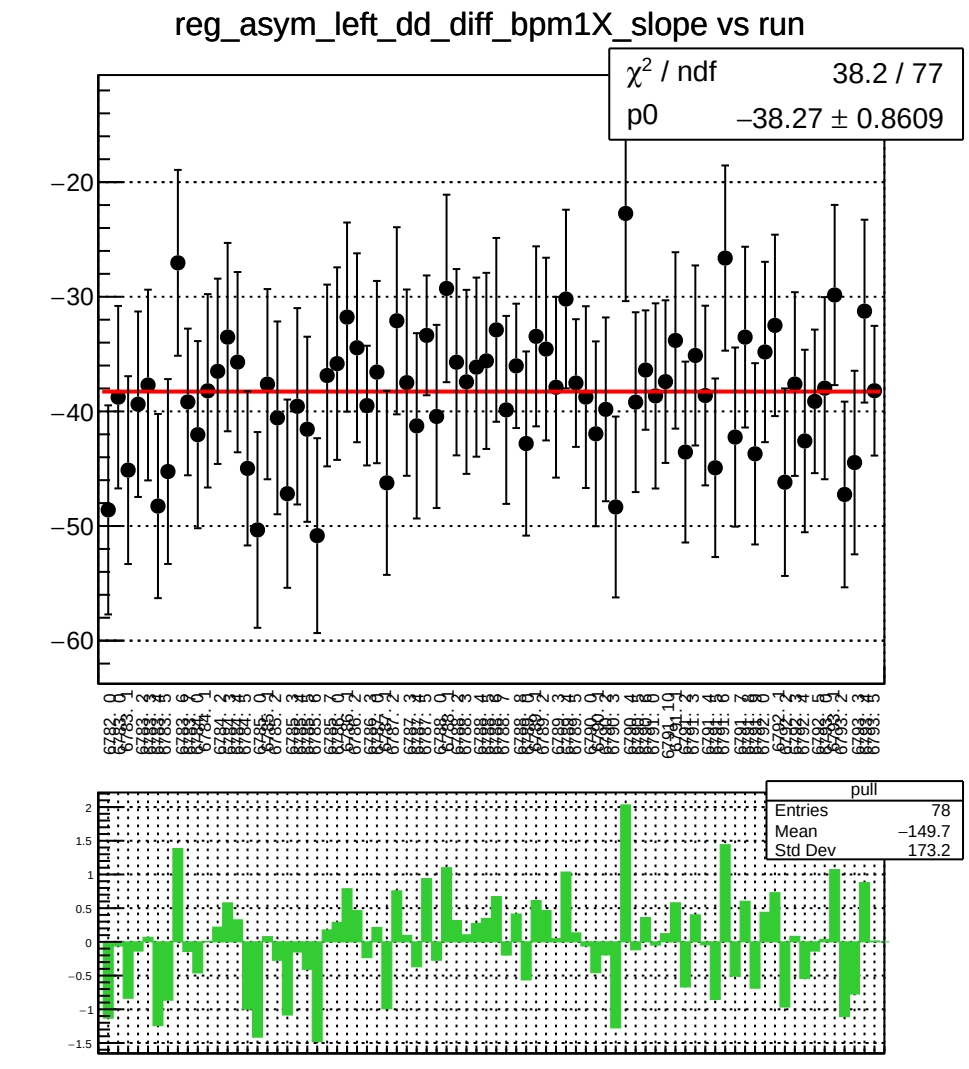

pull1D
Entries 78
Mean 0.01011
Std Dev 0.6804

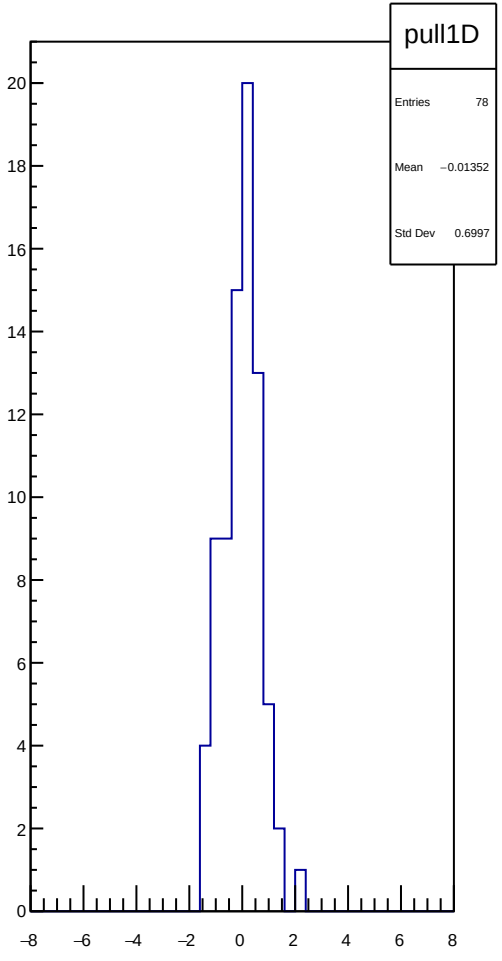

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.71 / 77
p0 8.256 ± 0.5631
pull
Entries 78
Mean −49.7
Std Dev 86.07

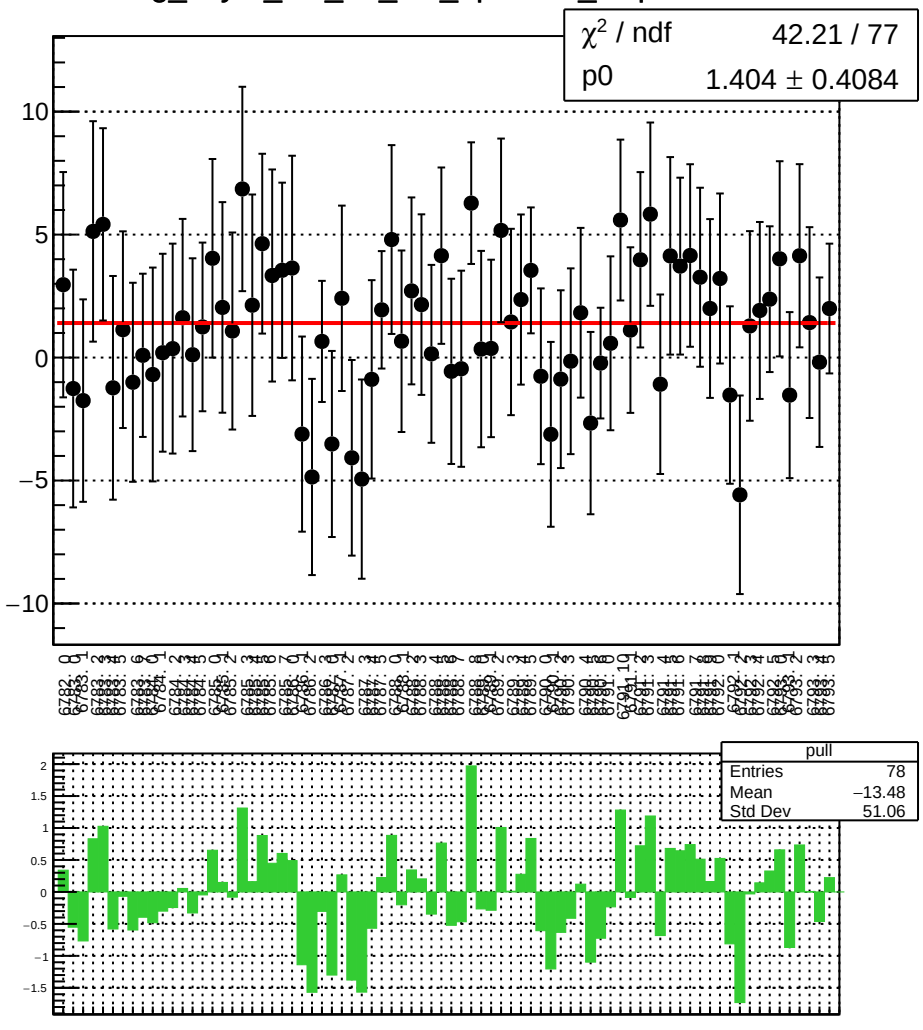

pull1D
Entries 78
Mean 0.02014
Std Dev 0.731

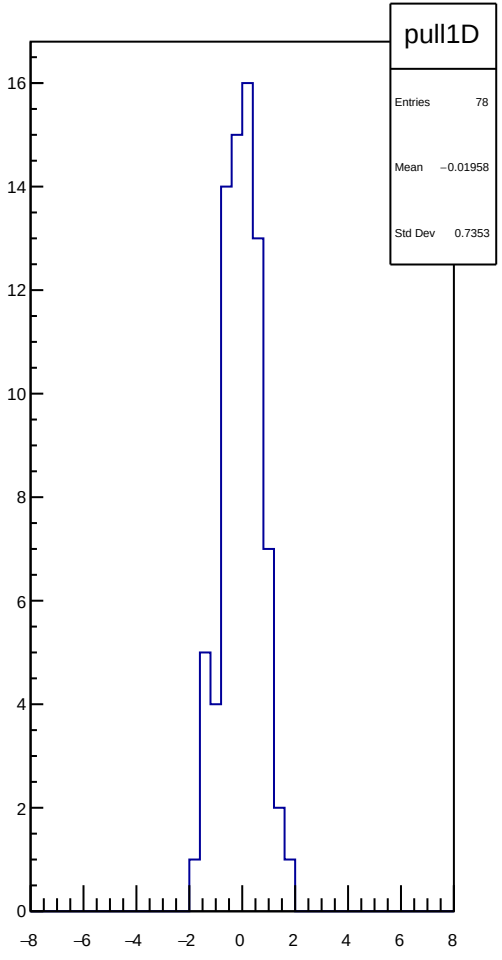

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 70.23 / 77
p0 −19.49 ± 0.03785
−18.5
−19
−19.5
−20
−20.5
−21
pull
Entries 78
Mean 50.99
Std Dev 14.21
2
1
0
−1
−2
−3

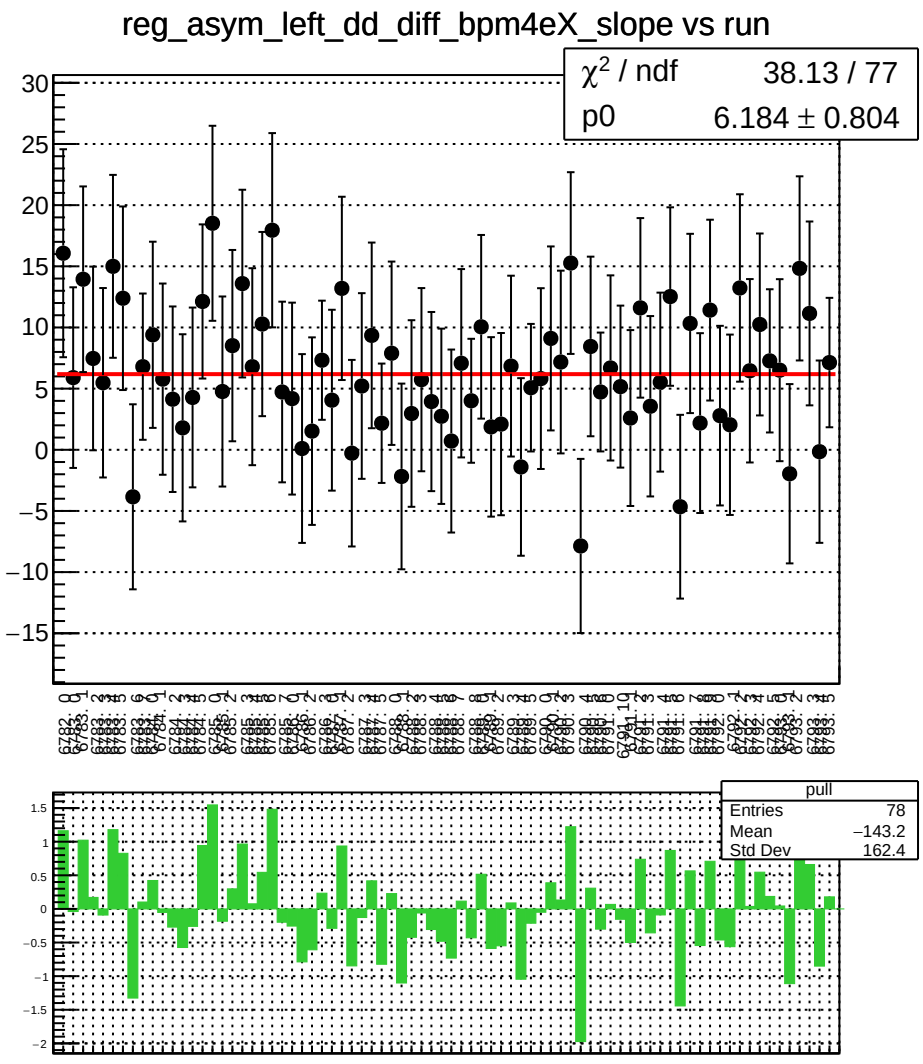

pull1D
Entries 78
Mean 0.02056
Std Dev 0.9486
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

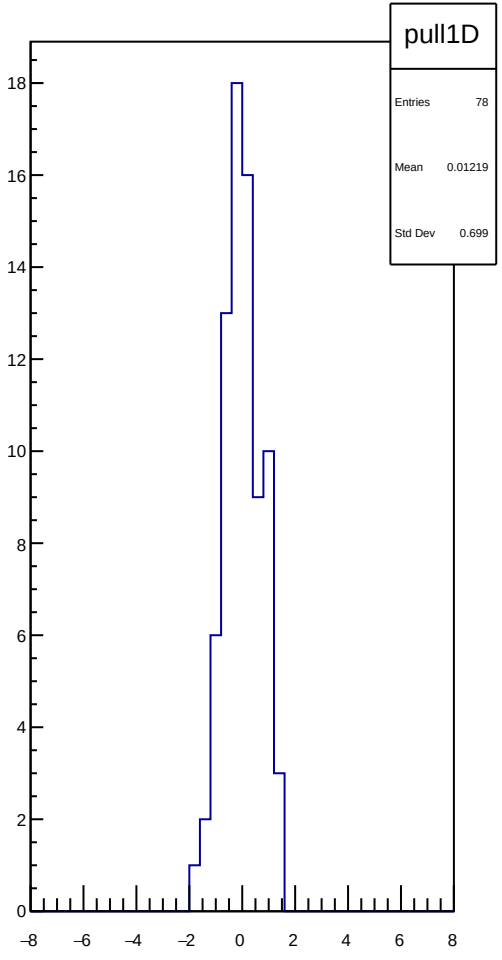

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 38.2 / 77
p0 −38.27 ± 0.8609
pull
Entries 78
Mean −149.7
Std Dev 173.2

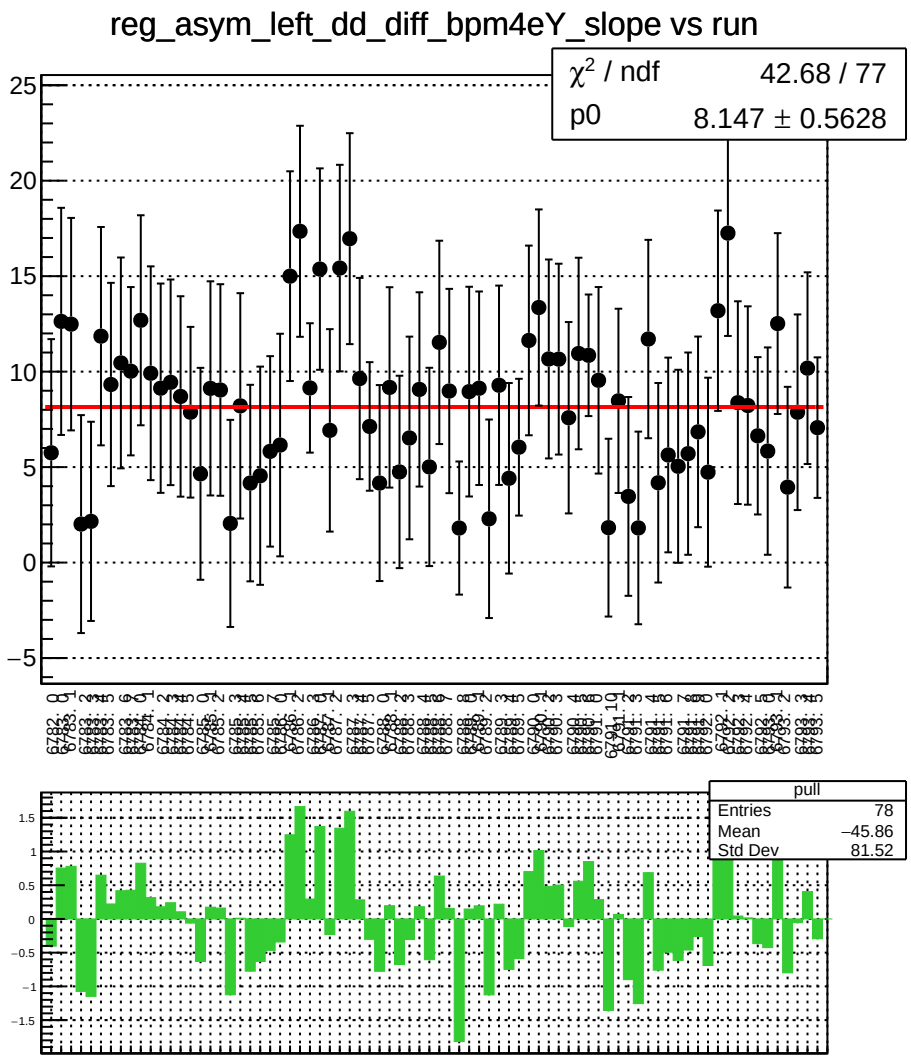

pull1D
Entries 78
Mean −0.01352
Std Dev 0.6997

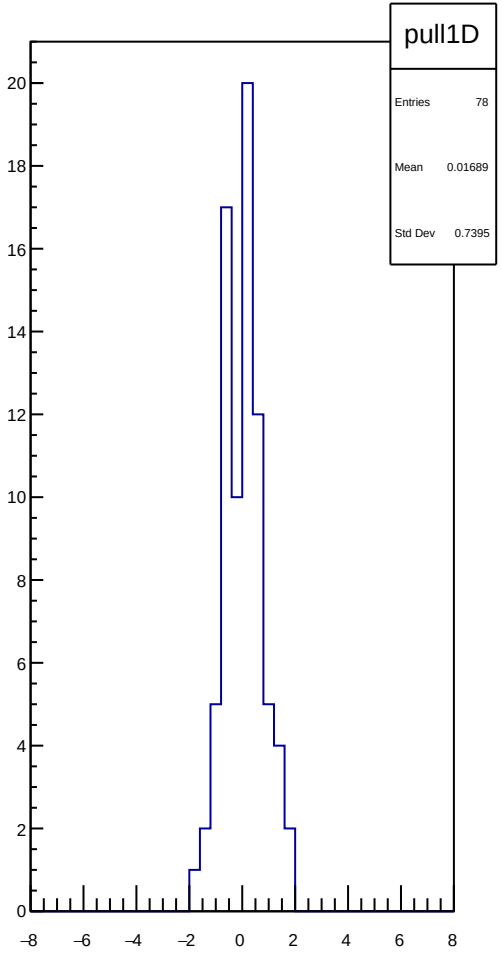

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.21 / 77
p0 1.404 ± 0.4084
pull
Entries 78
Mean −13.48
Std Dev 51.06

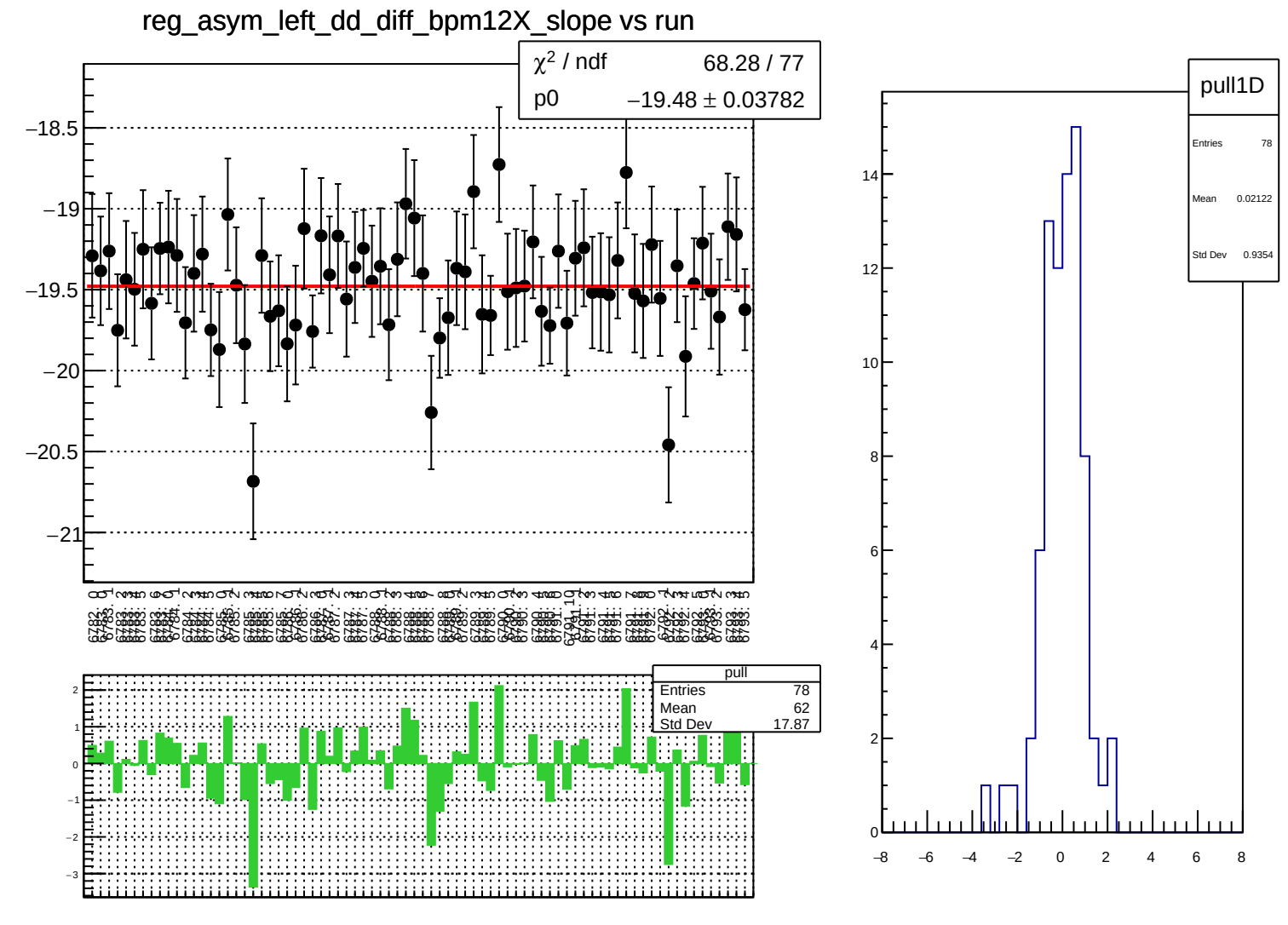

pull1D
Entries 78
Mean −0.01958
Std Dev 0.7353

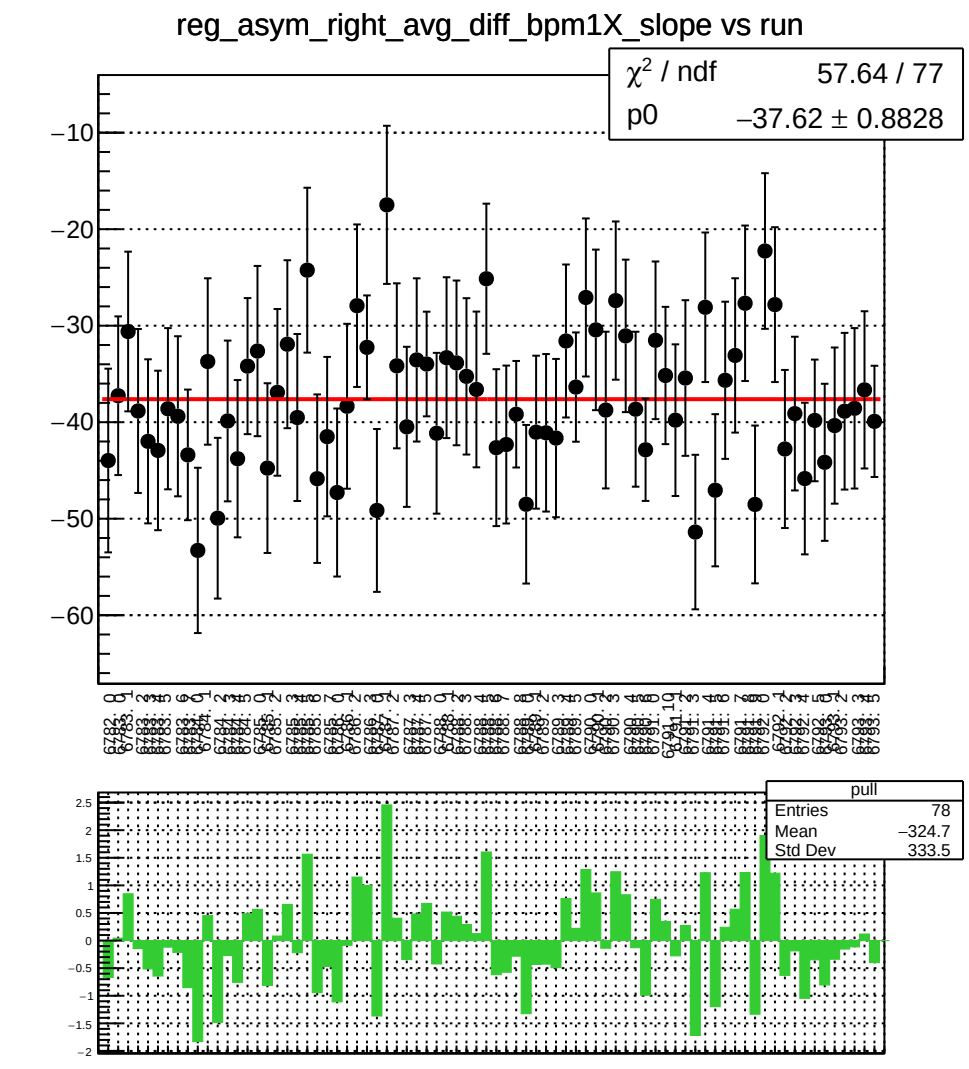

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.13 / 77
p0 6.184 ± 0.804
pull
Entries 78
Mean −143.2
Std Dev 162.4

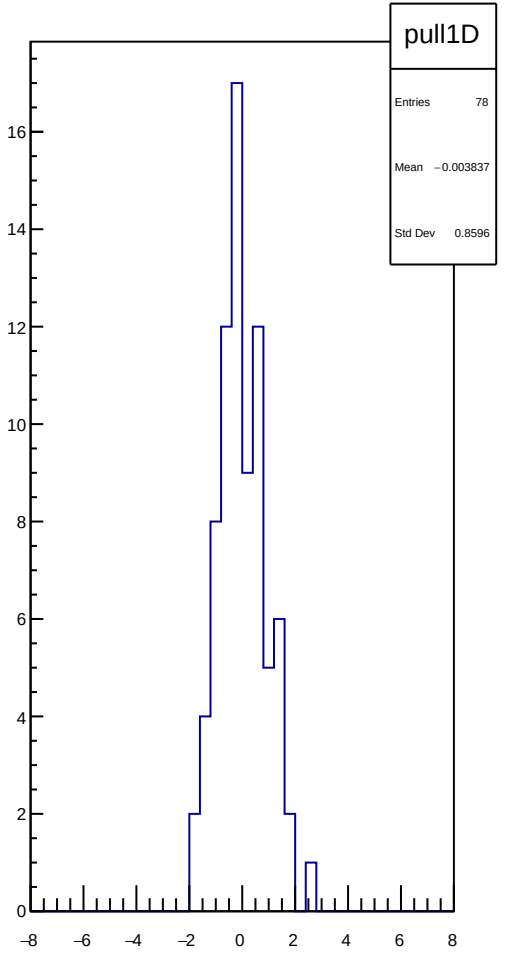

pull1D
Entries 78
Mean 0.01219
Std Dev 0.699

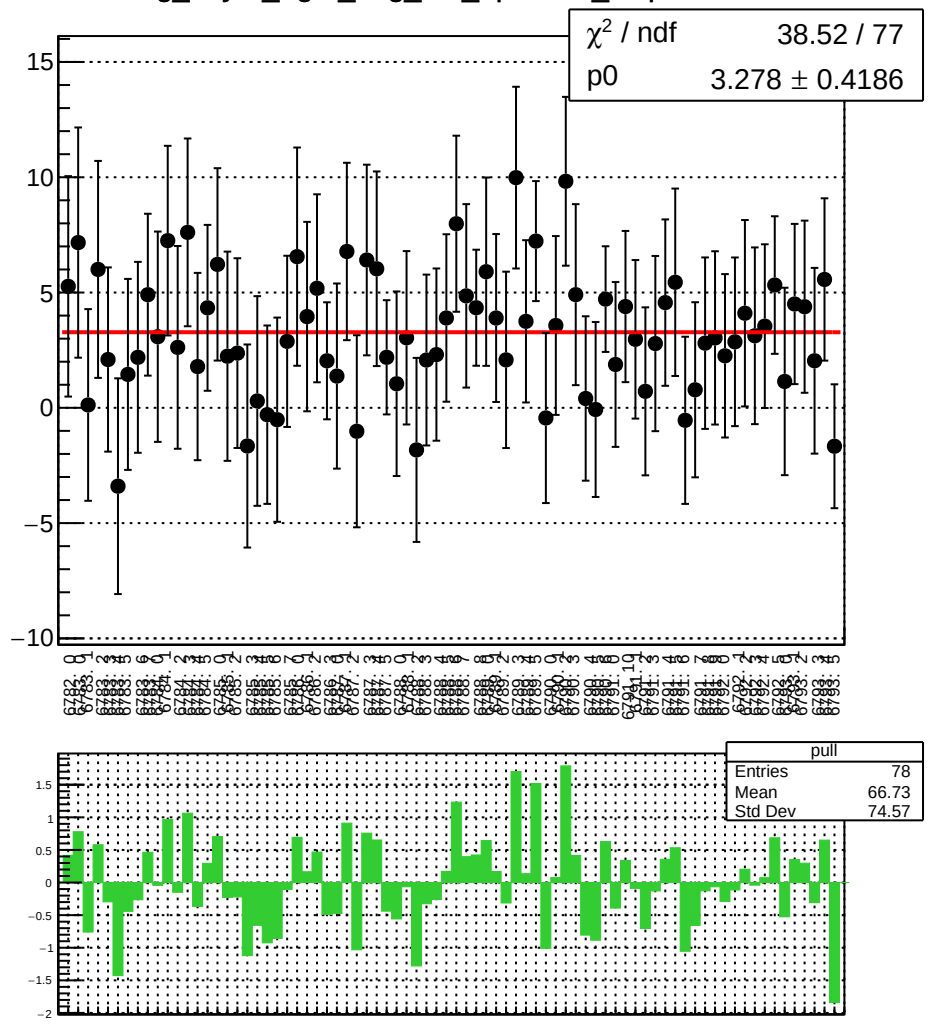

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.68 / 77
p0 8.147 ± 0.5628
pull
Entries 78
Mean −45.86
Std Dev 81.52

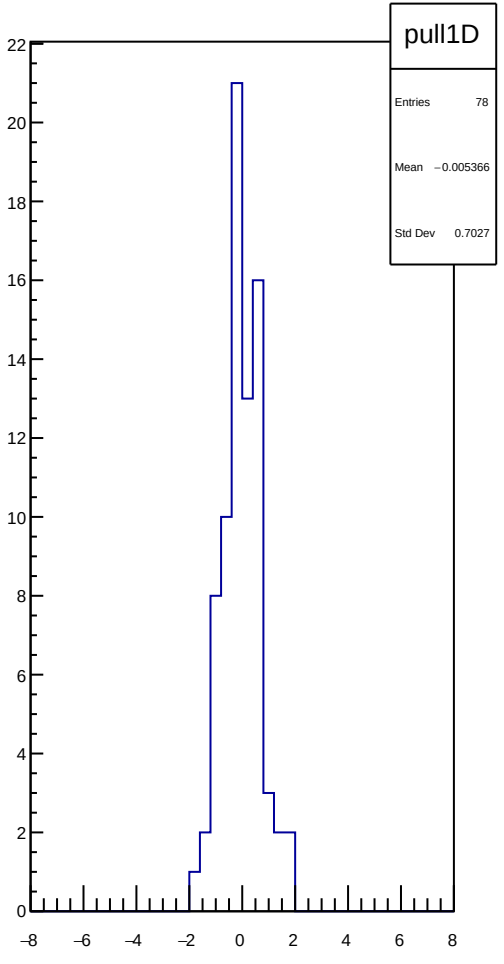

pull1D
Entries 78
Mean 0.01689
Std Dev 0.7395

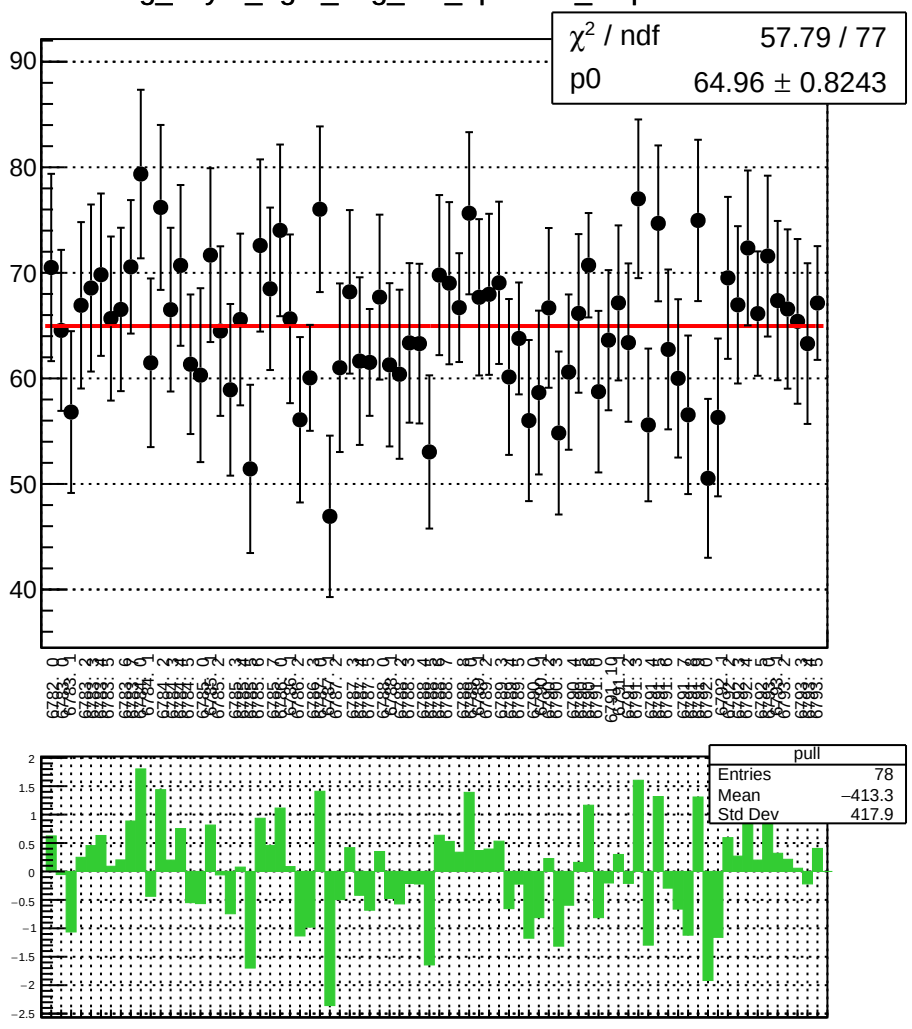

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 68.28 / 77
p0 −19.48 ± 0.03782
−18.5
−19
−19.5
−20
−20.5
−21
pull
Entries 78
Mean 62
Std Dev 17.87
pull1D
Entries 78
Mean 0.02122
Std Dev 0.9354

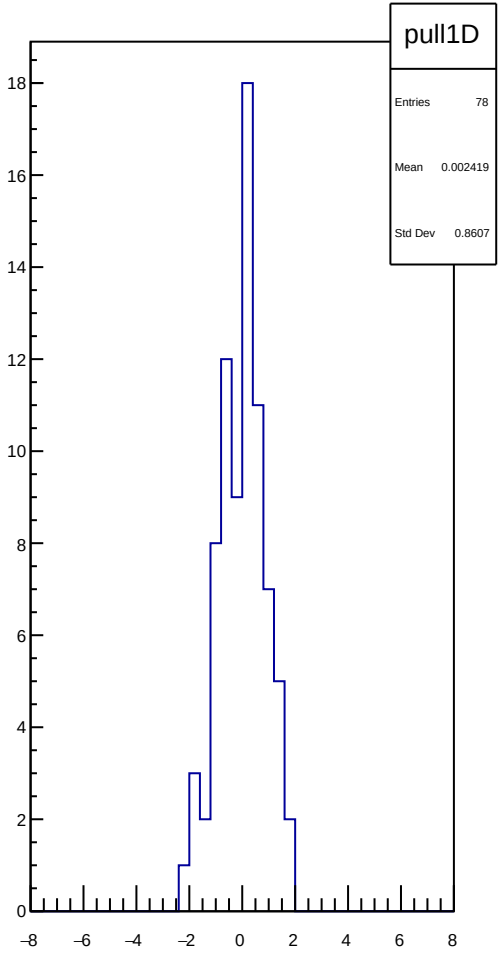

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 57.64 / 77
p0 −37.62 ± 0.8828
pull
Entries 78
Mean −324.7
Std Dev 333.5

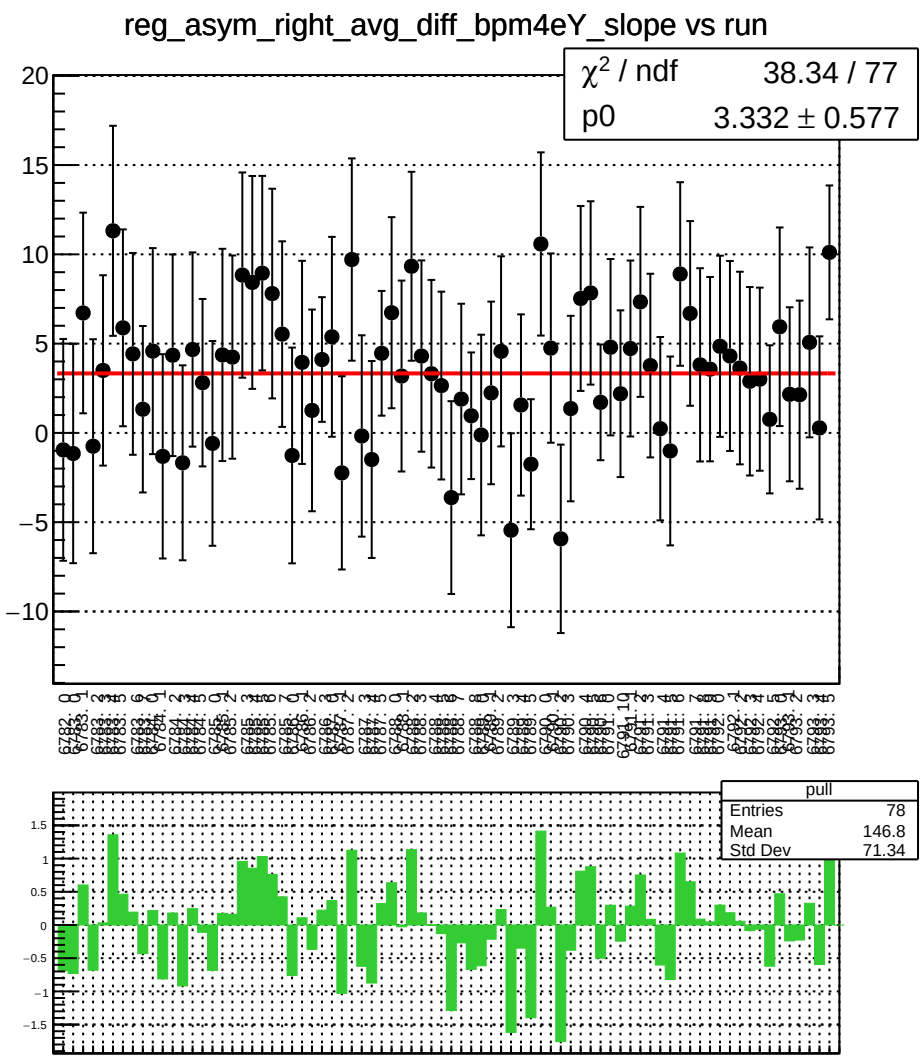

pull1D
Entries 78
Mean −0.003837
Std Dev 0.8596

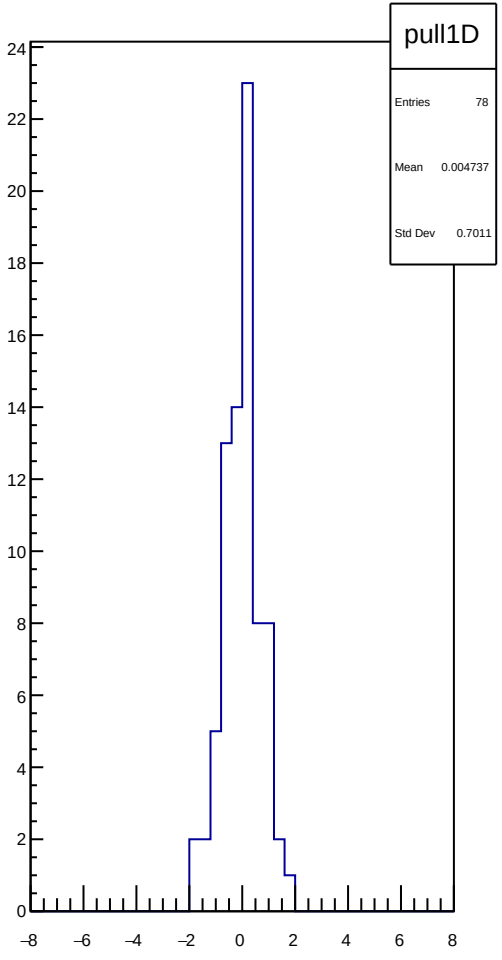

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 38.52 / 77
p0 3.278 ± 0.4186
pull
Entries 78
Mean 66.73
Std Dev 74.57

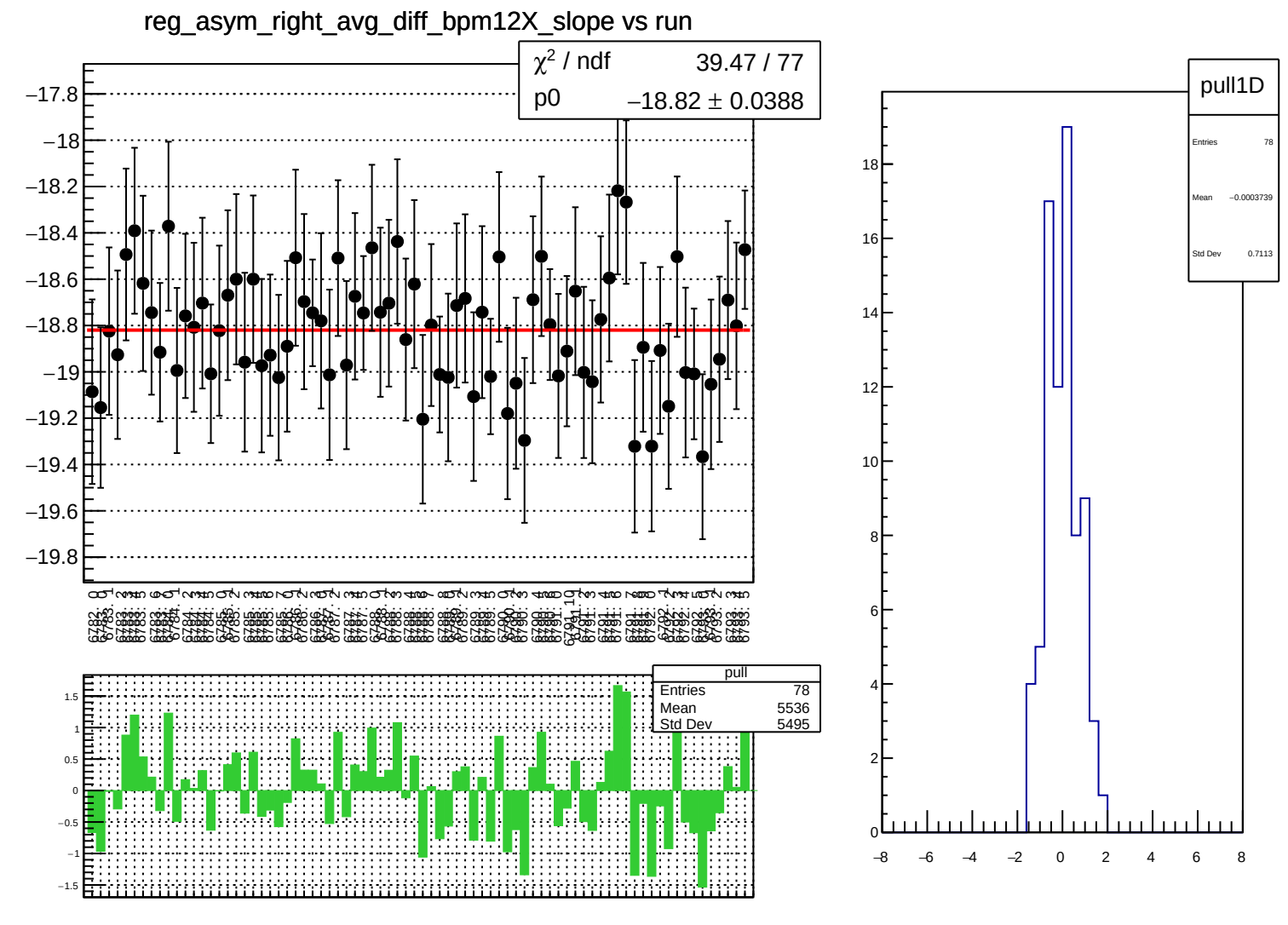

pull1D
Entries 78
Mean −0.005366
Std Dev 0.7027

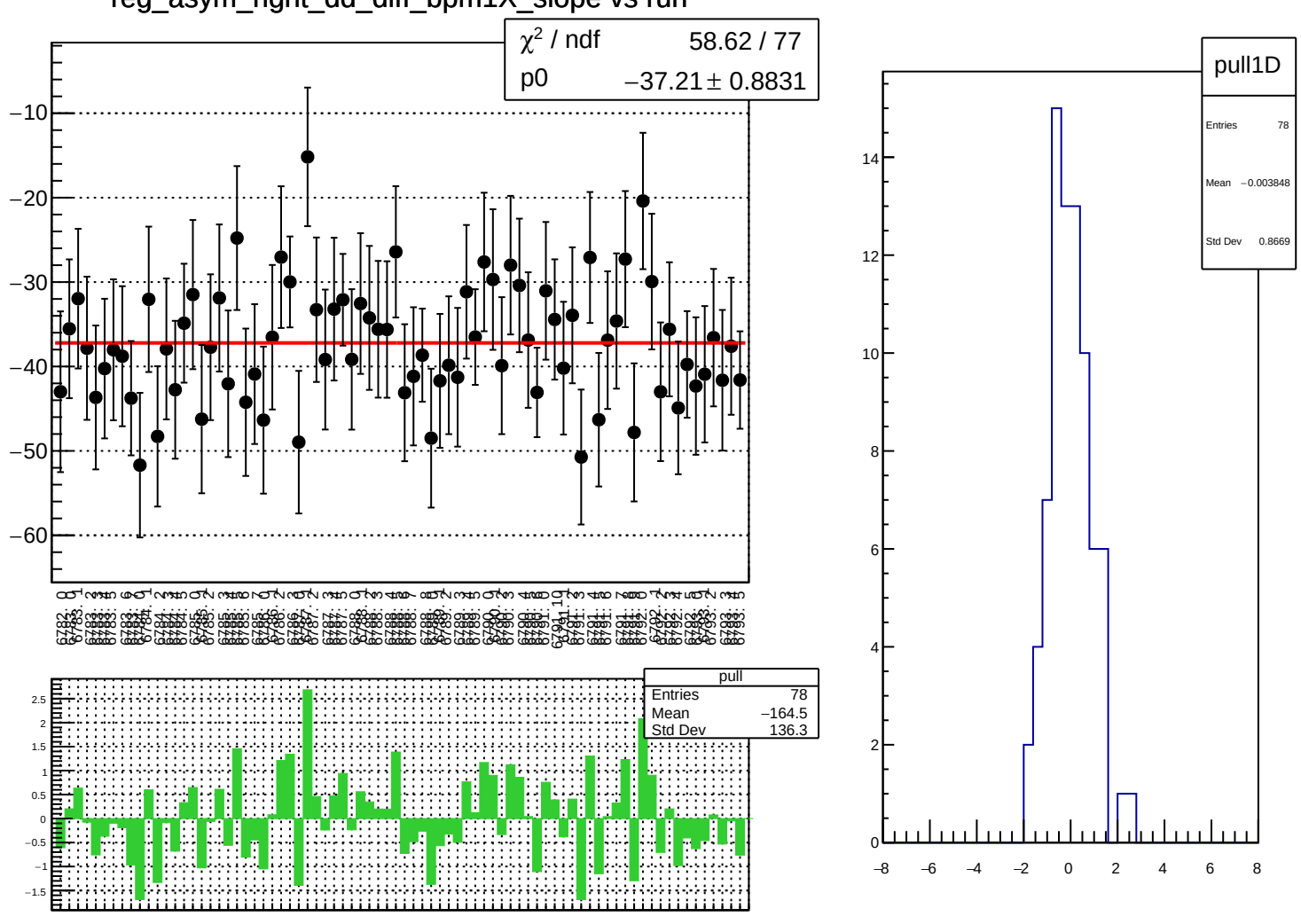

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 57.79 / 77
p0 64.96 ± 0.8243
pull
Entries 78
Mean −413.3
Std Dev 417.9

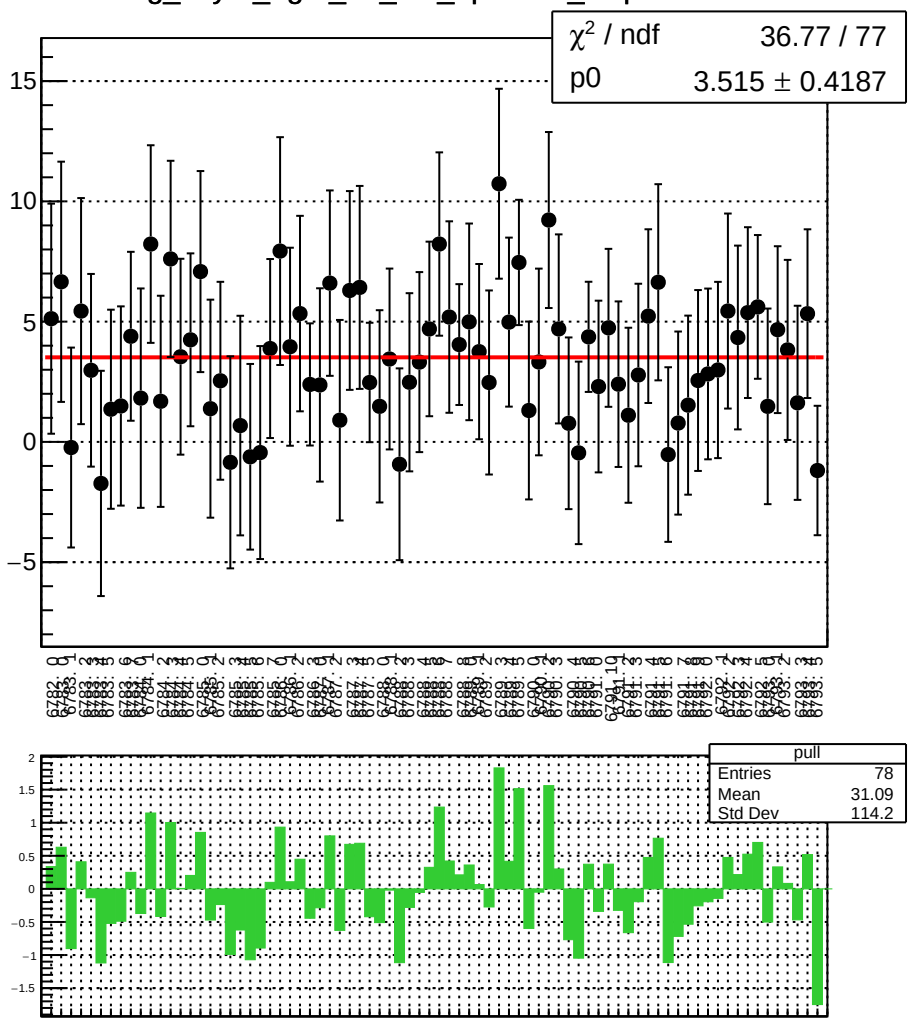

pull1D
Entries 78
Mean 0.002419
Std Dev 0.8607

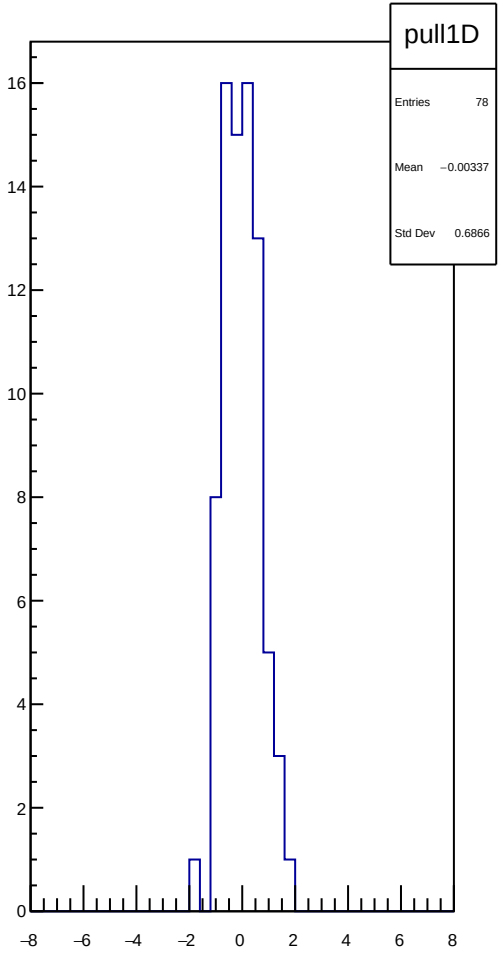

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 38.34 / 77
p0 3.332 ± 0.577
pull
Entries 78
Mean 146.8
Std Dev 71.34

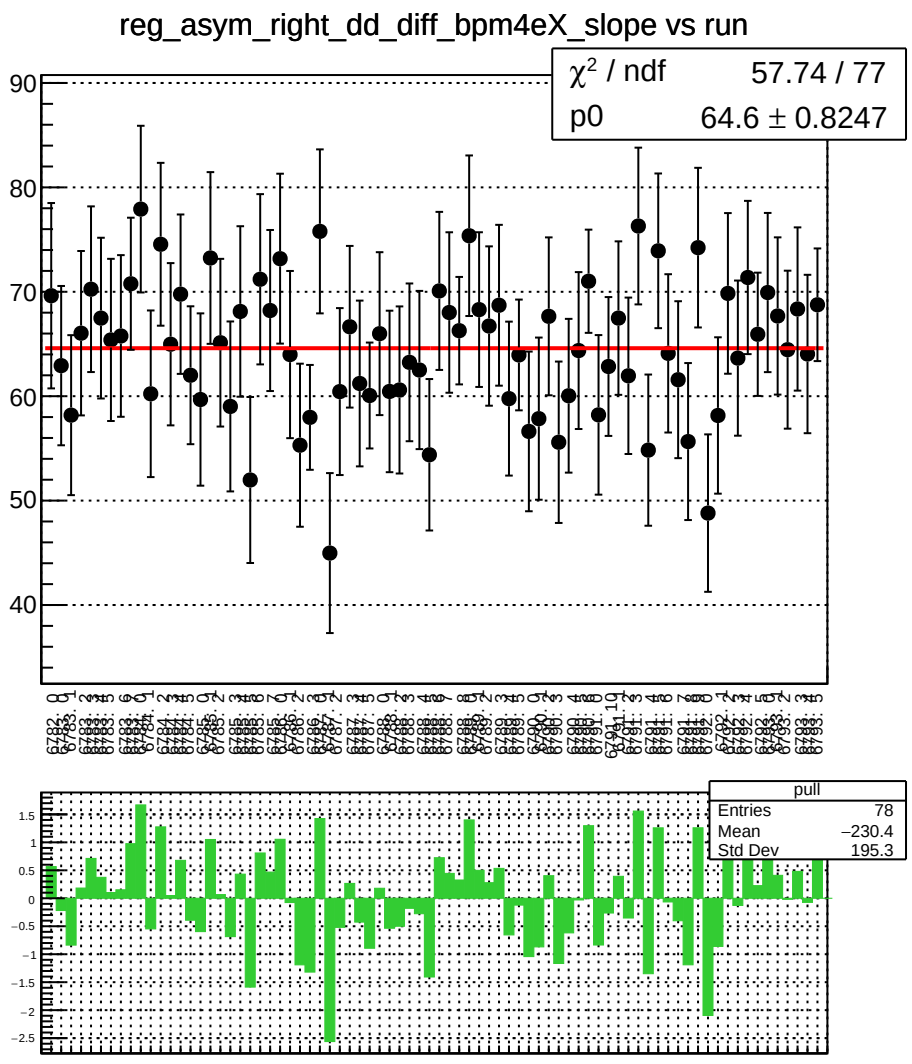

pull1D
Entries 78
Mean 0.004737
Std Dev 0.7011

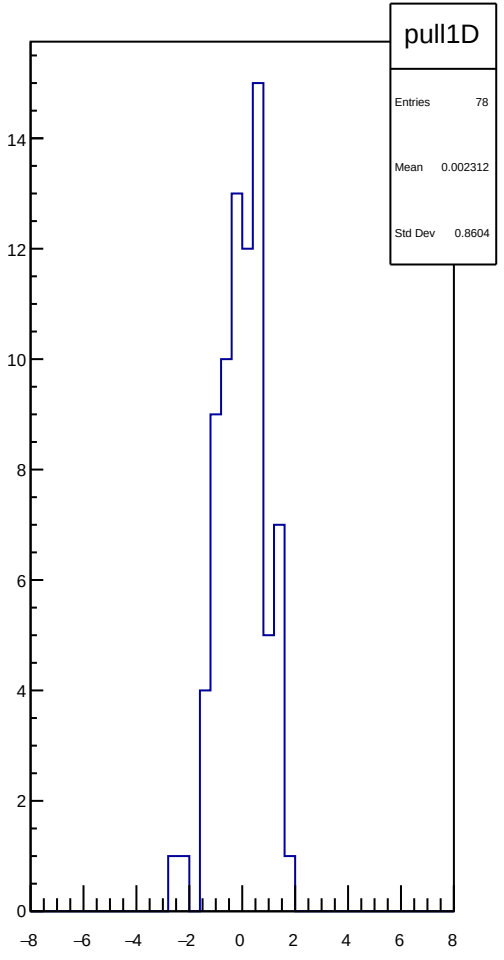

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 39.47 / 77
p0 −18.82 ± 0.0388
pull
Entries 78
Mean 5536
Std Dev 5495
pull1D
Entries 78
Mean −0.0003739
Std Dev 0.7113

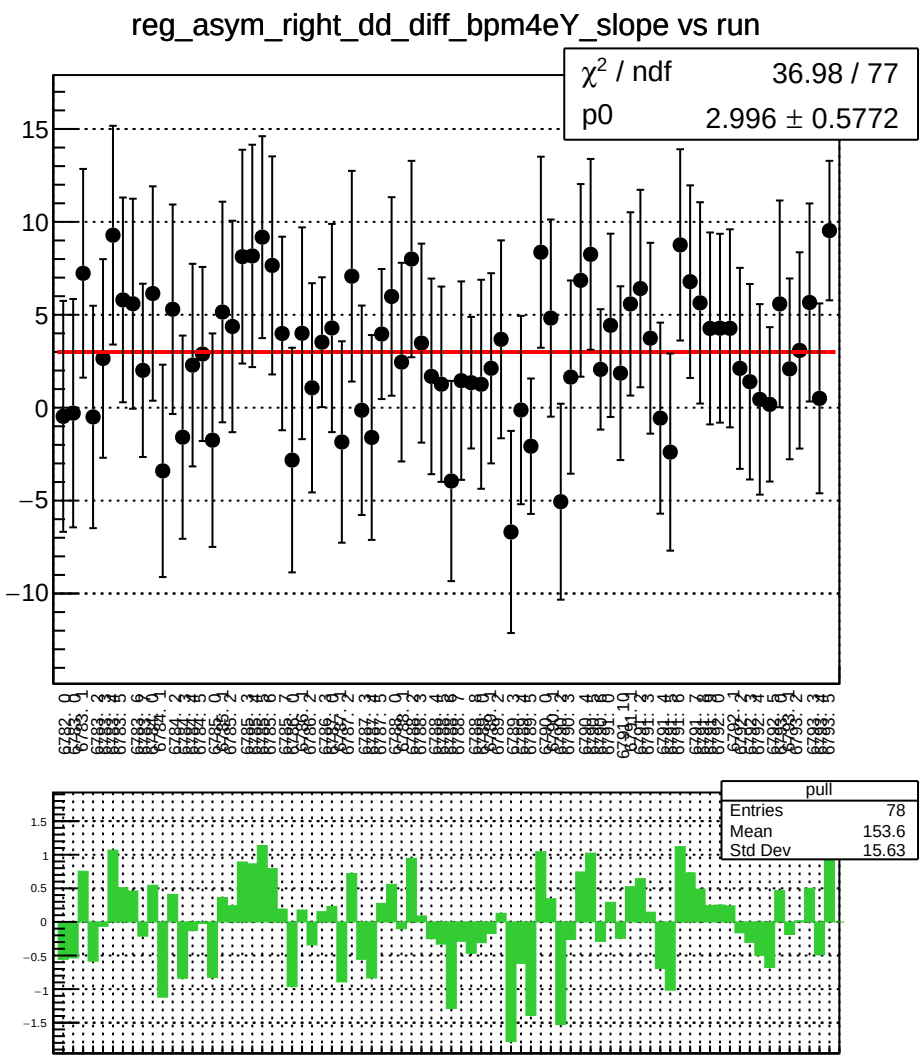

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 58.62 / 77
p0 −37.21 ± 0.8831
pull
Entries 78
Mean −164.5
Std Dev 136.3
pull1D
Entries 78
Mean −0.003848
Std Dev 0.8669

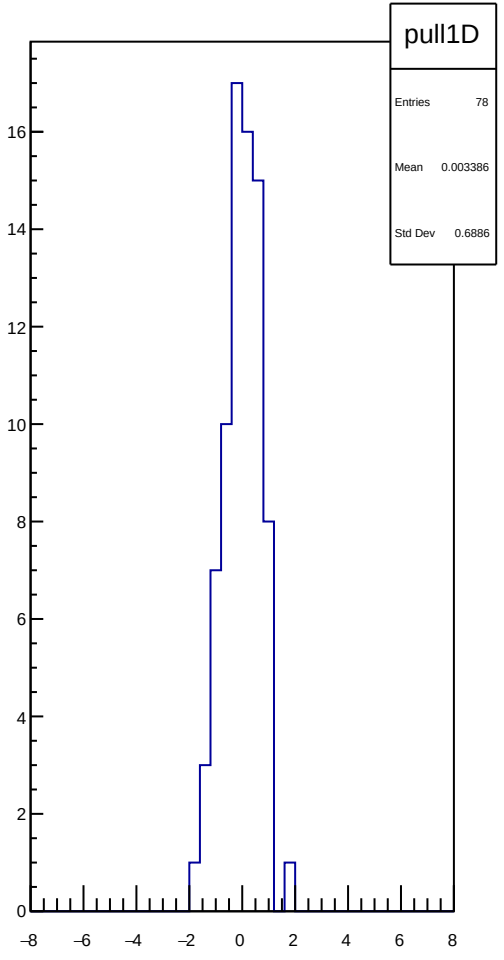

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.77 / 77
p0 3.515 ± 0.4187
pull
Entries 78
Mean 31.09
Std Dev 114.2

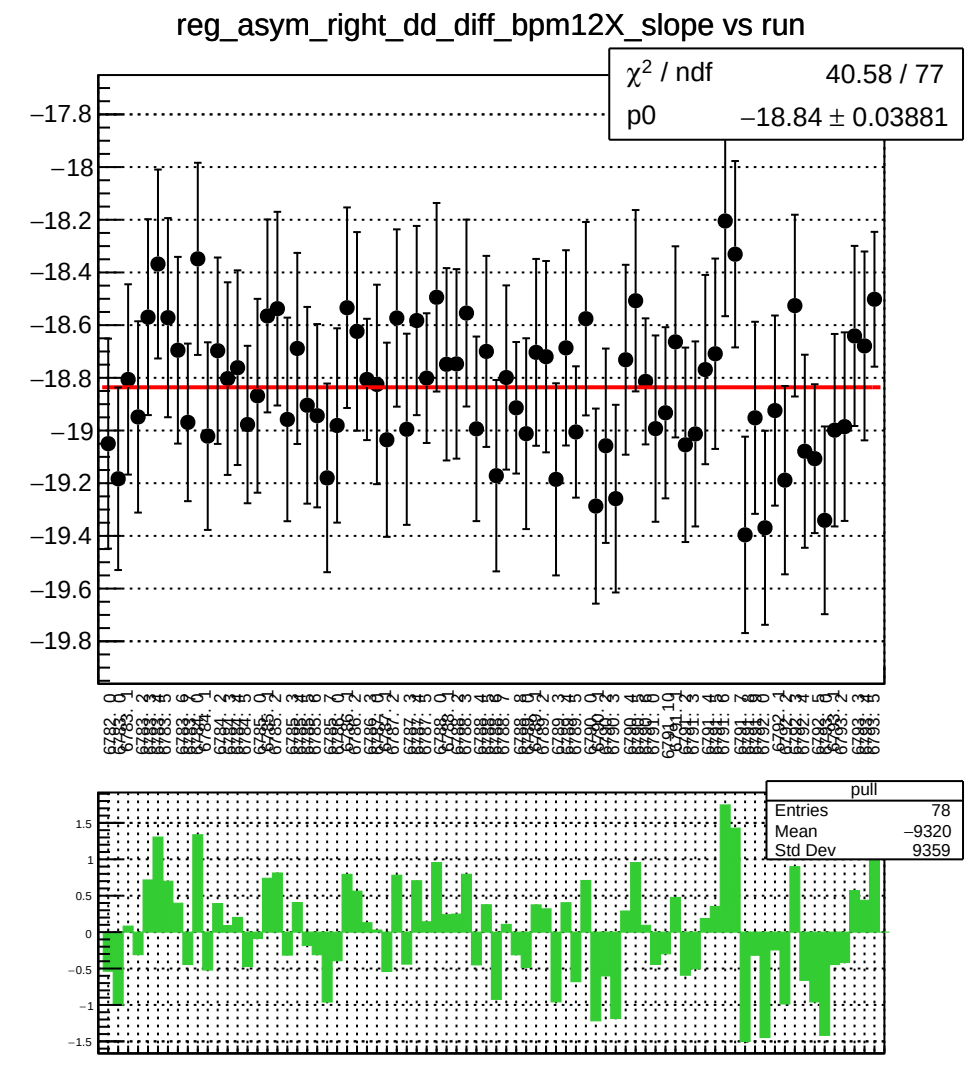

pull1D
Entries 78
Mean −0.00337
Std Dev 0.6866

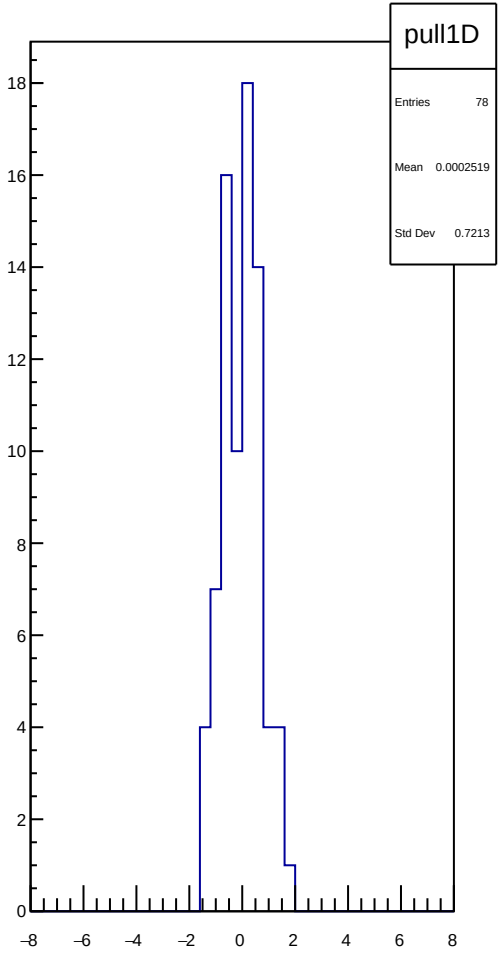

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.74 / 77
p0 64.6 ± 0.8247
pull
Entries 78
Mean −230.4
Std Dev 195.3

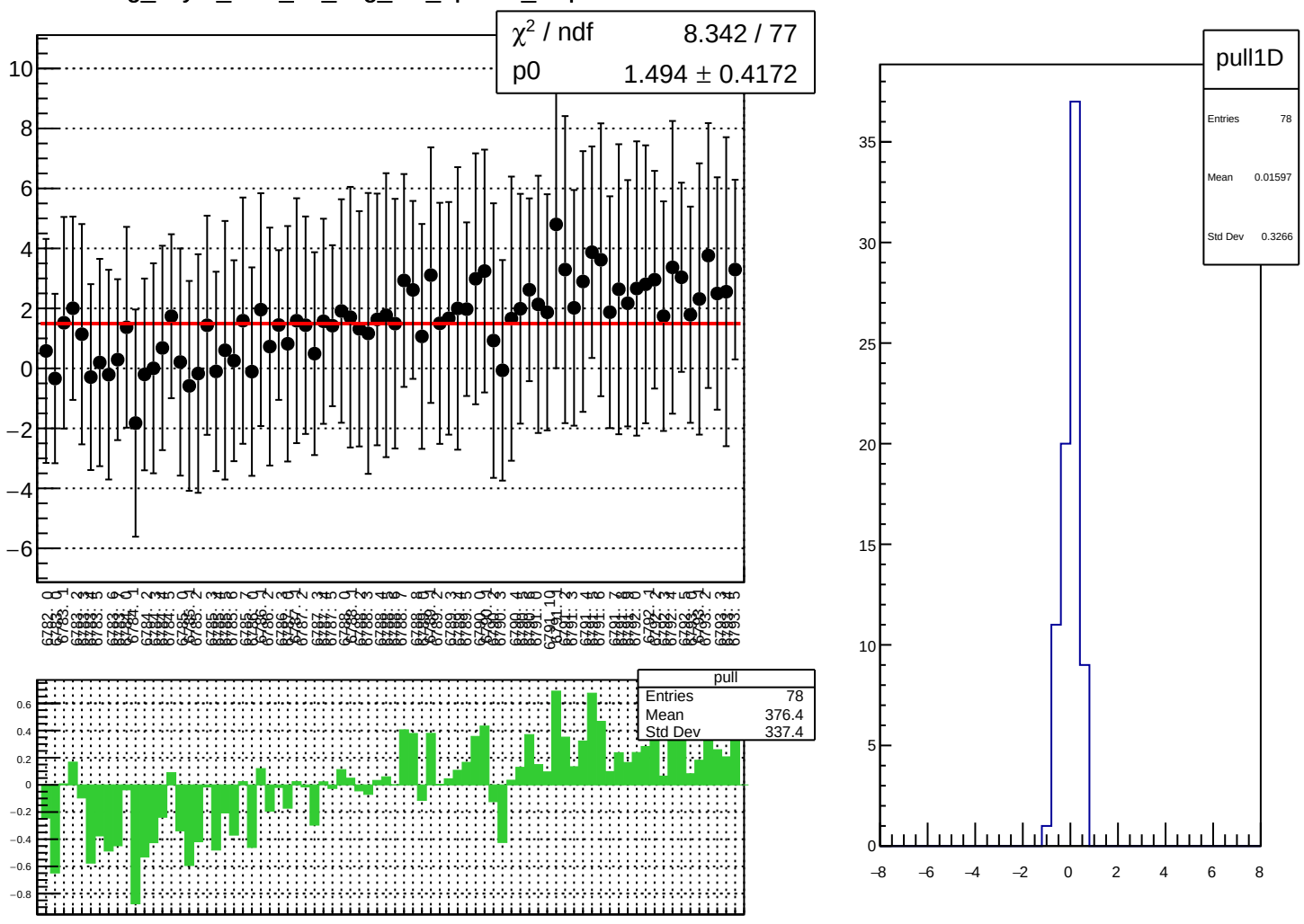

pull1D
Entries 78
Mean 0.002312
Std Dev 0.8604

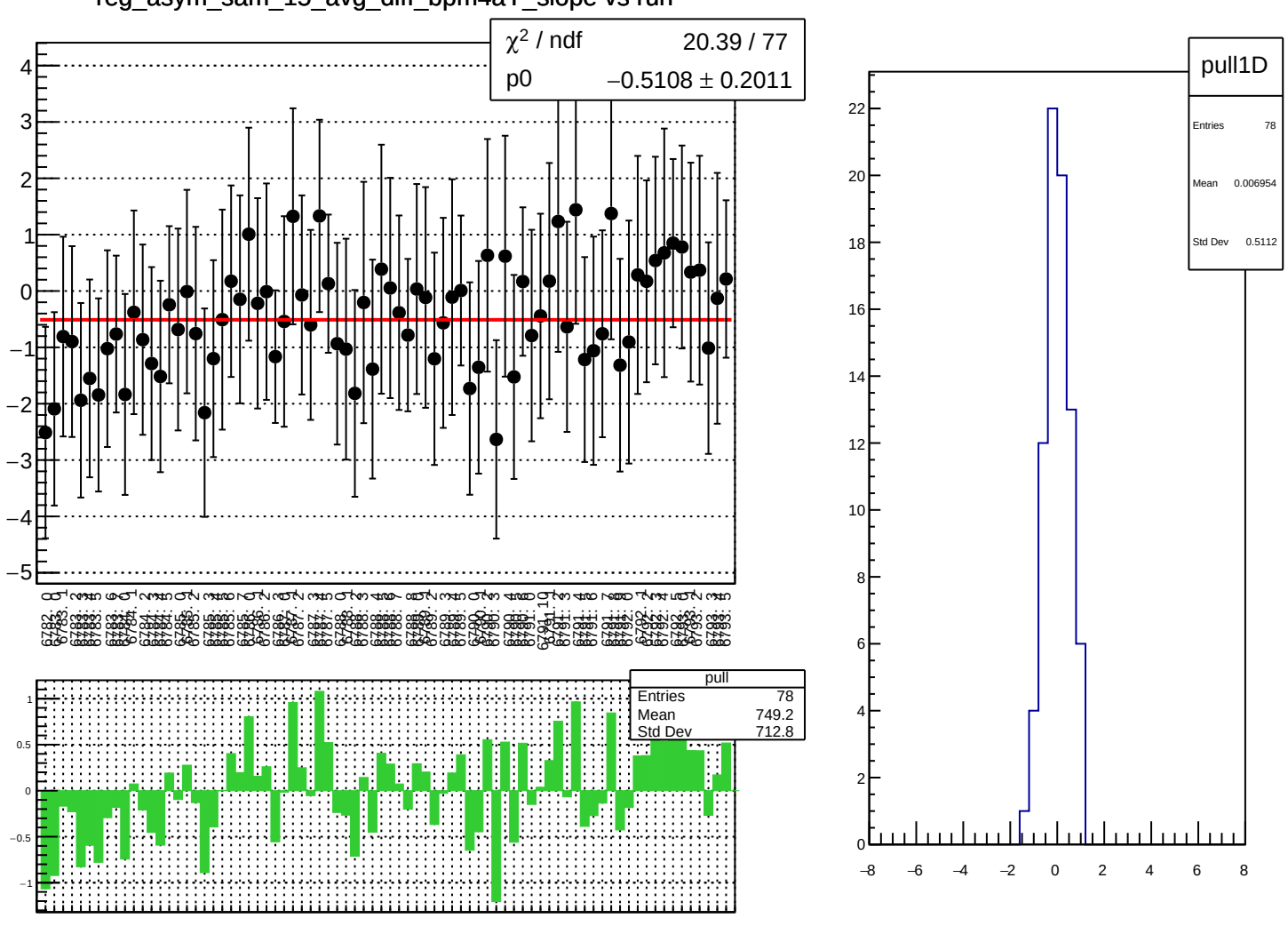

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.98 / 77
p0 2.996 ± 0.5772
pull
Entries 78
Mean 153.6
Std Dev 15.63

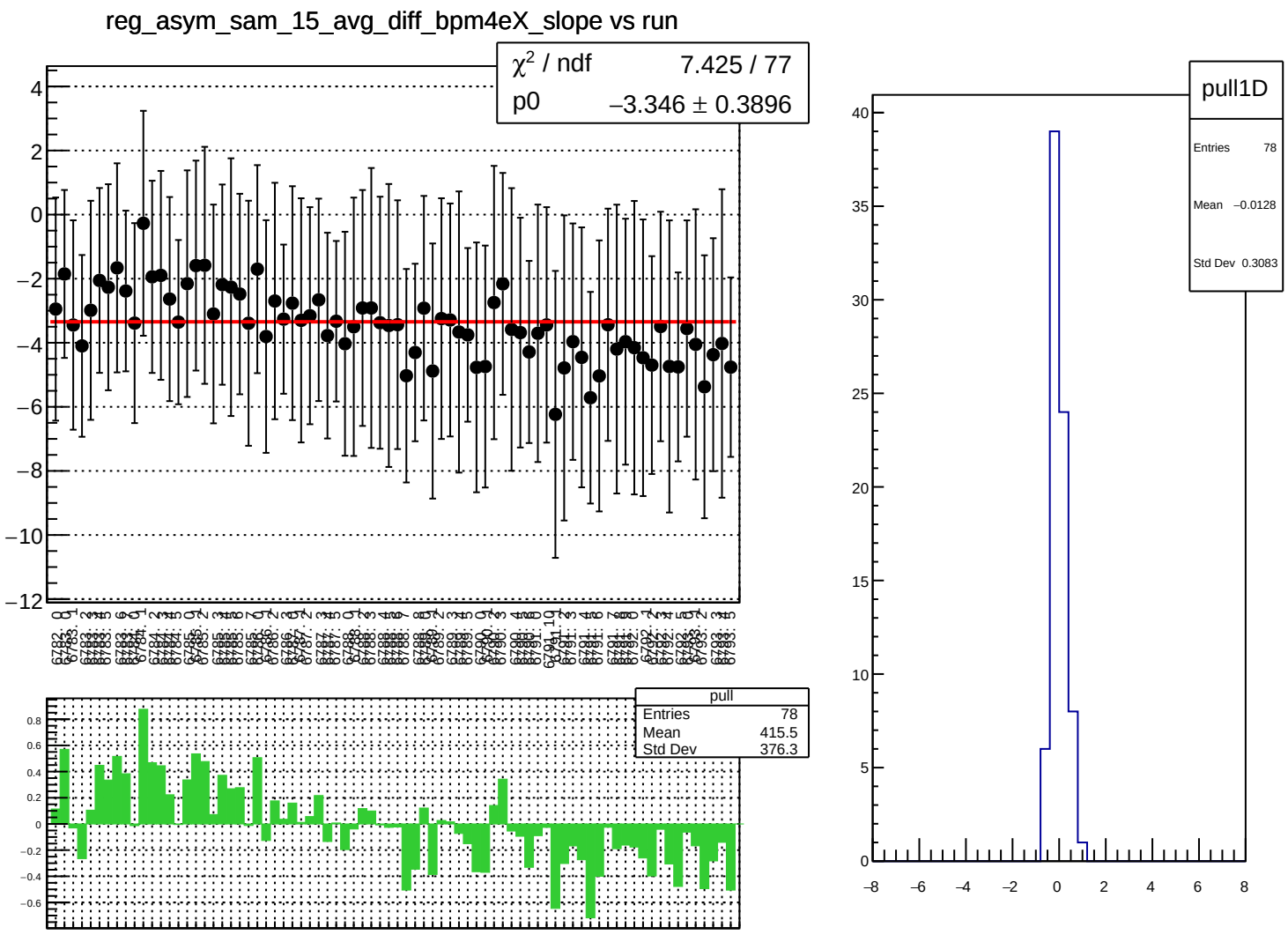

pull1D
Entries 78
Mean 0.003386
Std Dev 0.6886

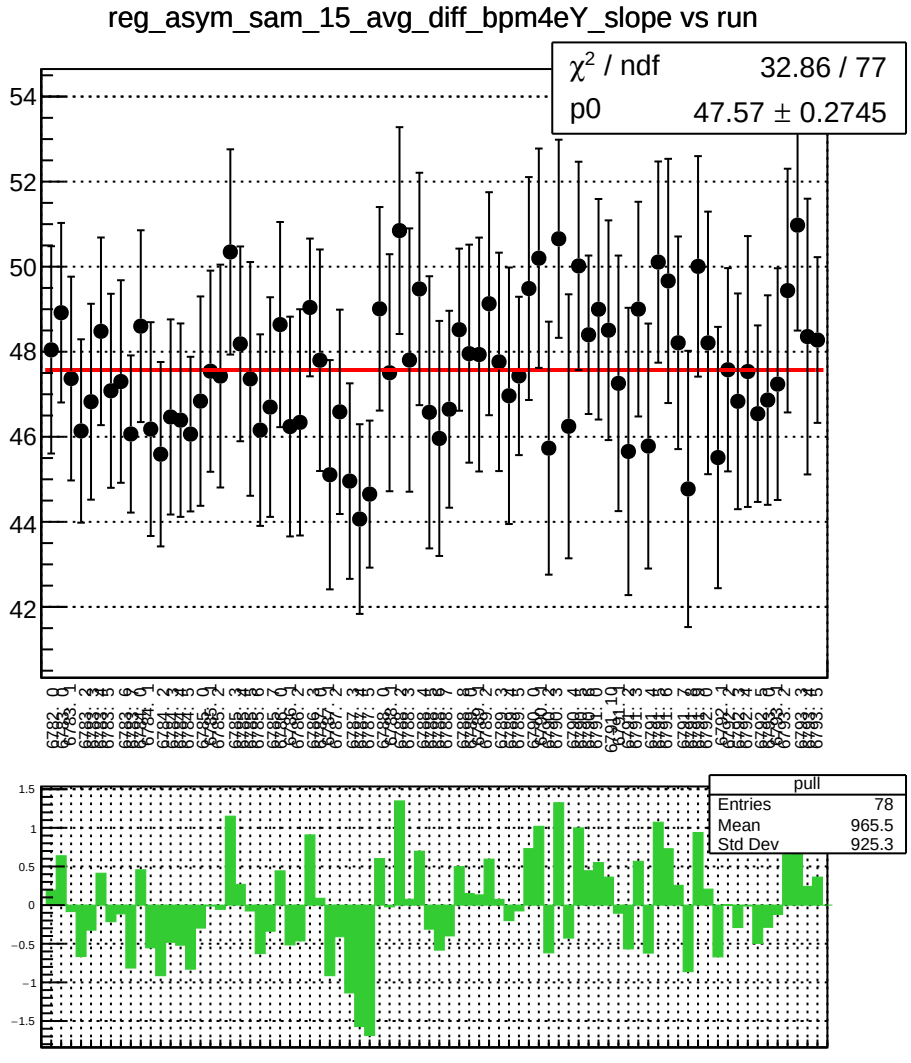

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 40.58 / 77
p0 −18.84 ± 0.03881
pull
Entries 78
Mean −9320
Std Dev 9359

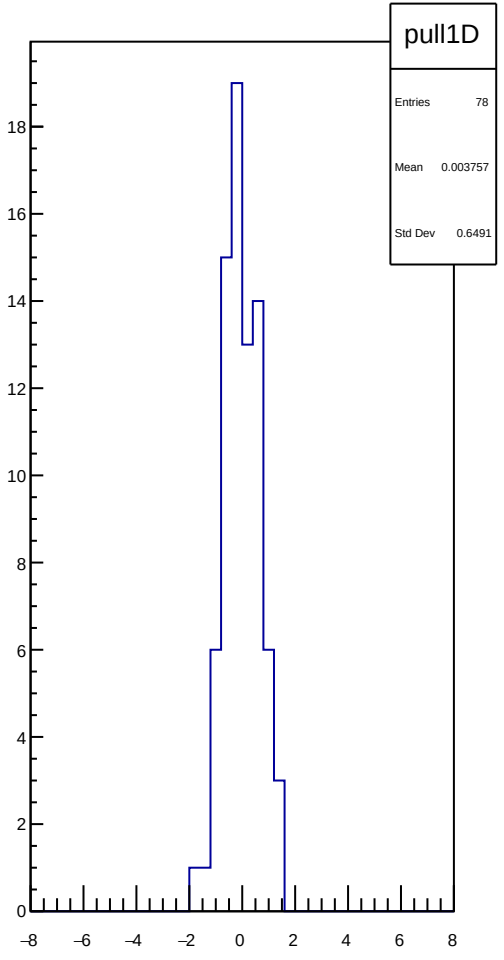

pull1D
Entries 78
Mean 0.0002519
Std Dev 0.7213

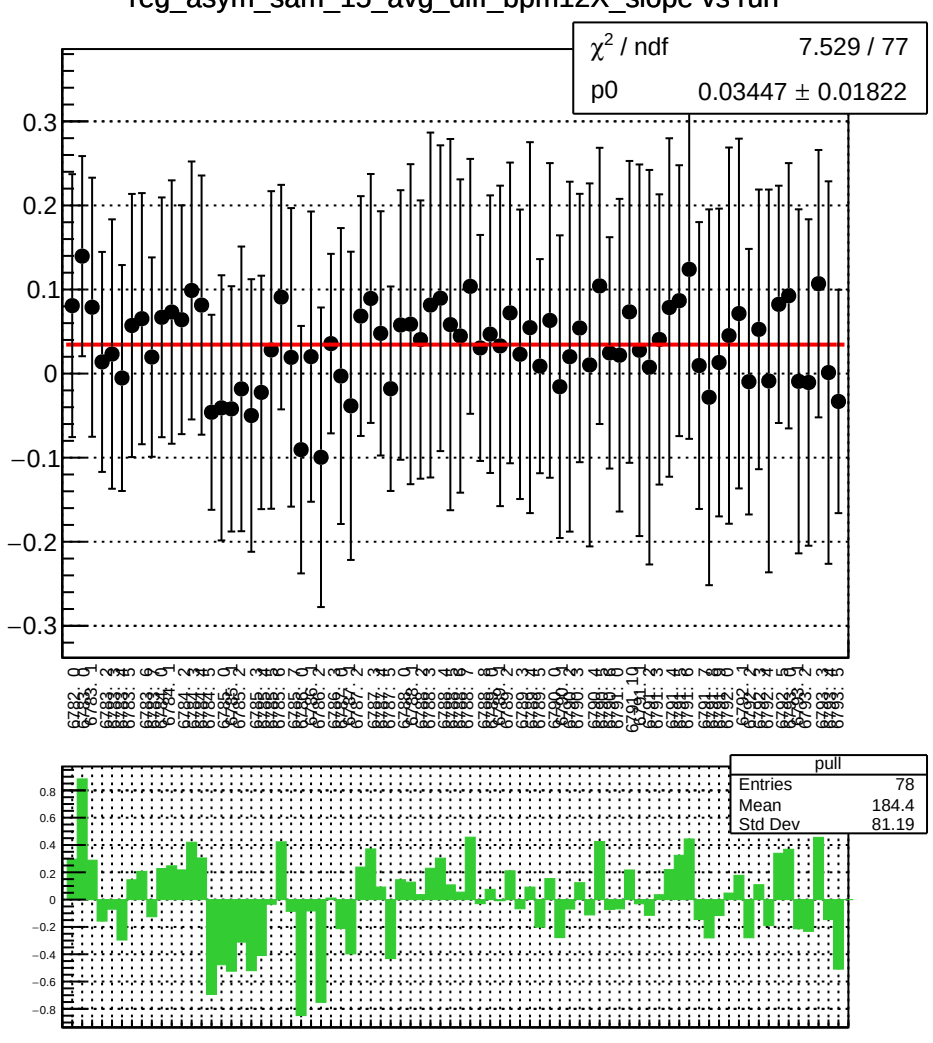

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 8.342 / 77
p0 1.494 ± 0.4172
pull
Entries 78
Mean 376.4
Std Dev 337.4
pull1D
Entries 78
Mean 0.01597
Std Dev 0.3266

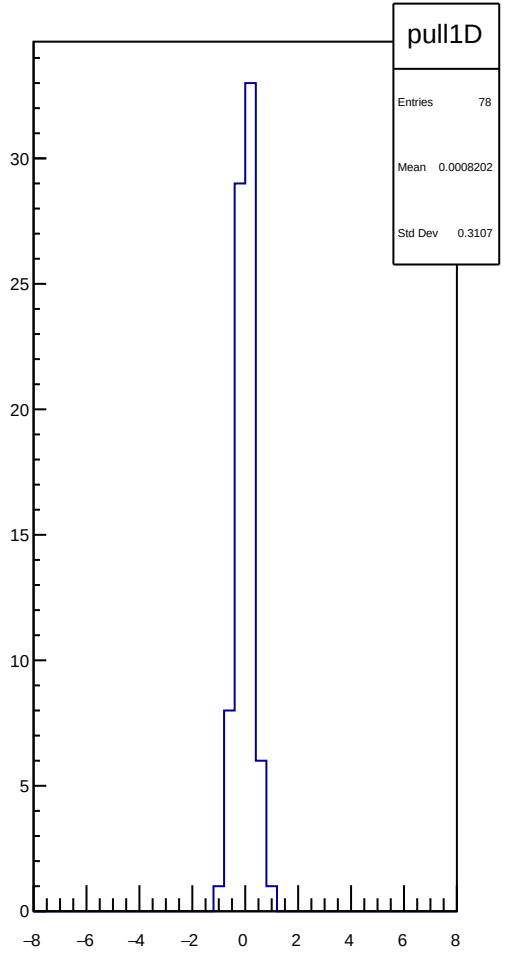

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.39 / 77
p0 −0.5108 ± 0.2011
pull
Entries 78
Mean 749.2
Std Dev 712.8
pull1D
Entries 78
Mean 0.006954
Std Dev 0.5112

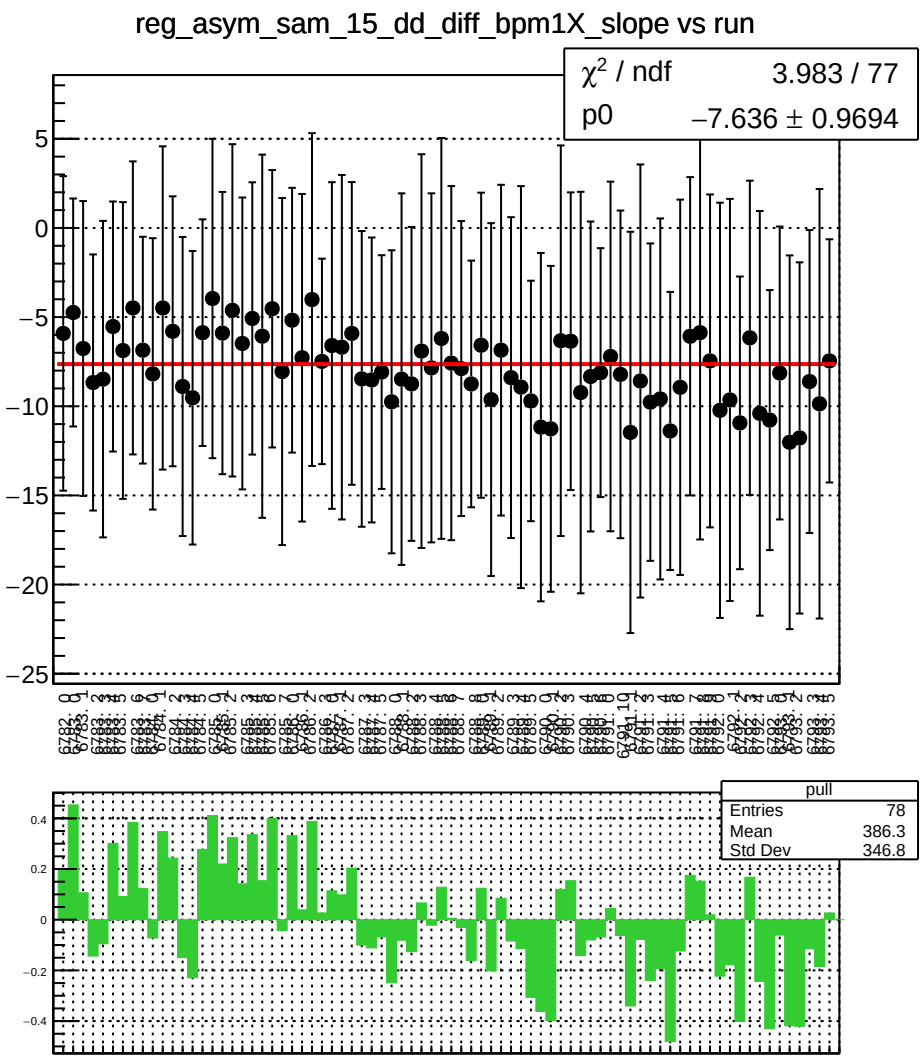

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.425 / 77
p0 −3.346 ± 0.3896
pull
Entries 78
Mean 415.5
Std Dev 376.3
pull1D
Entries 78
Mean −0.0128
Std Dev 0.3083

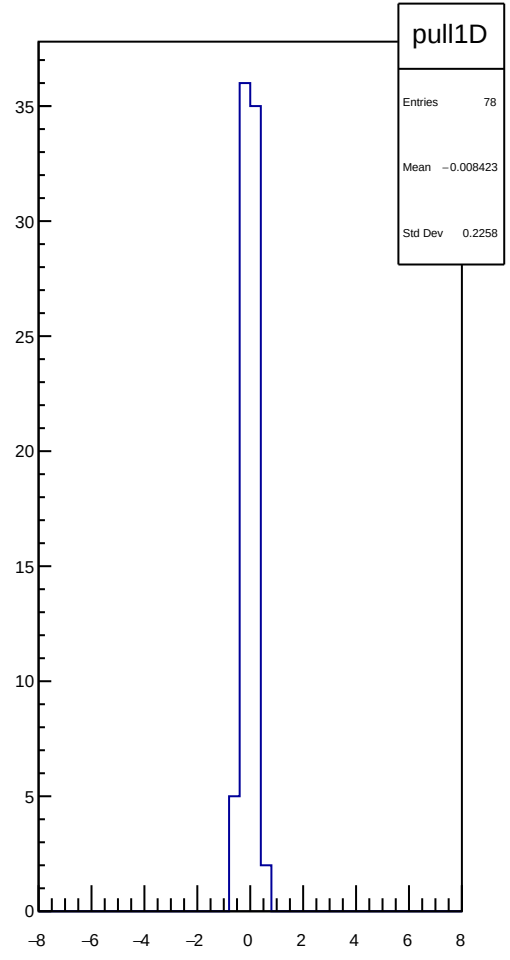

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.86 / 77
p0 47.57 ± 0.2745
pull
Entries 78
Mean 965.5
Std Dev 925.3

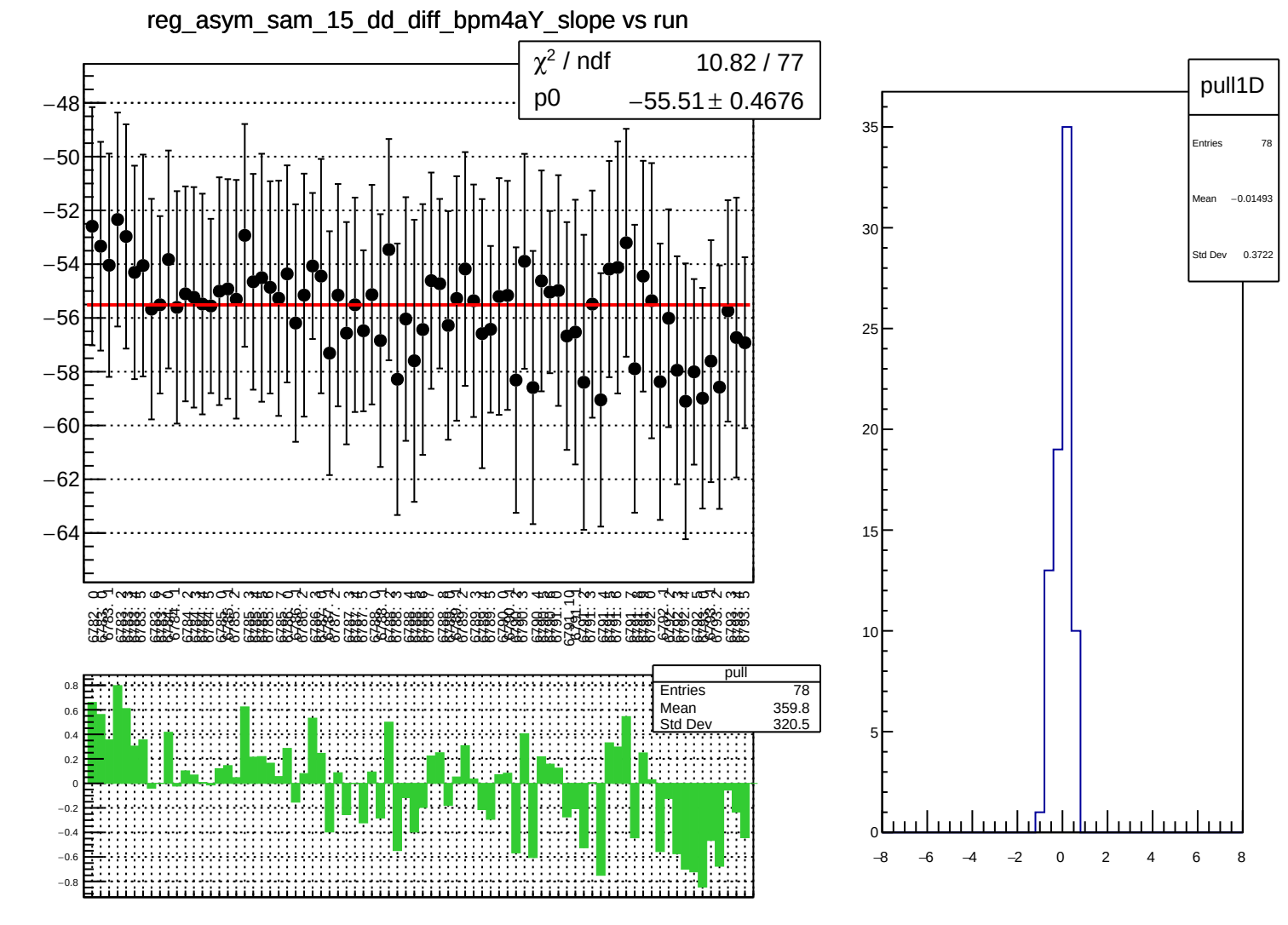

pull1D
Entries 78
Mean 0.003757
Std Dev 0.6491

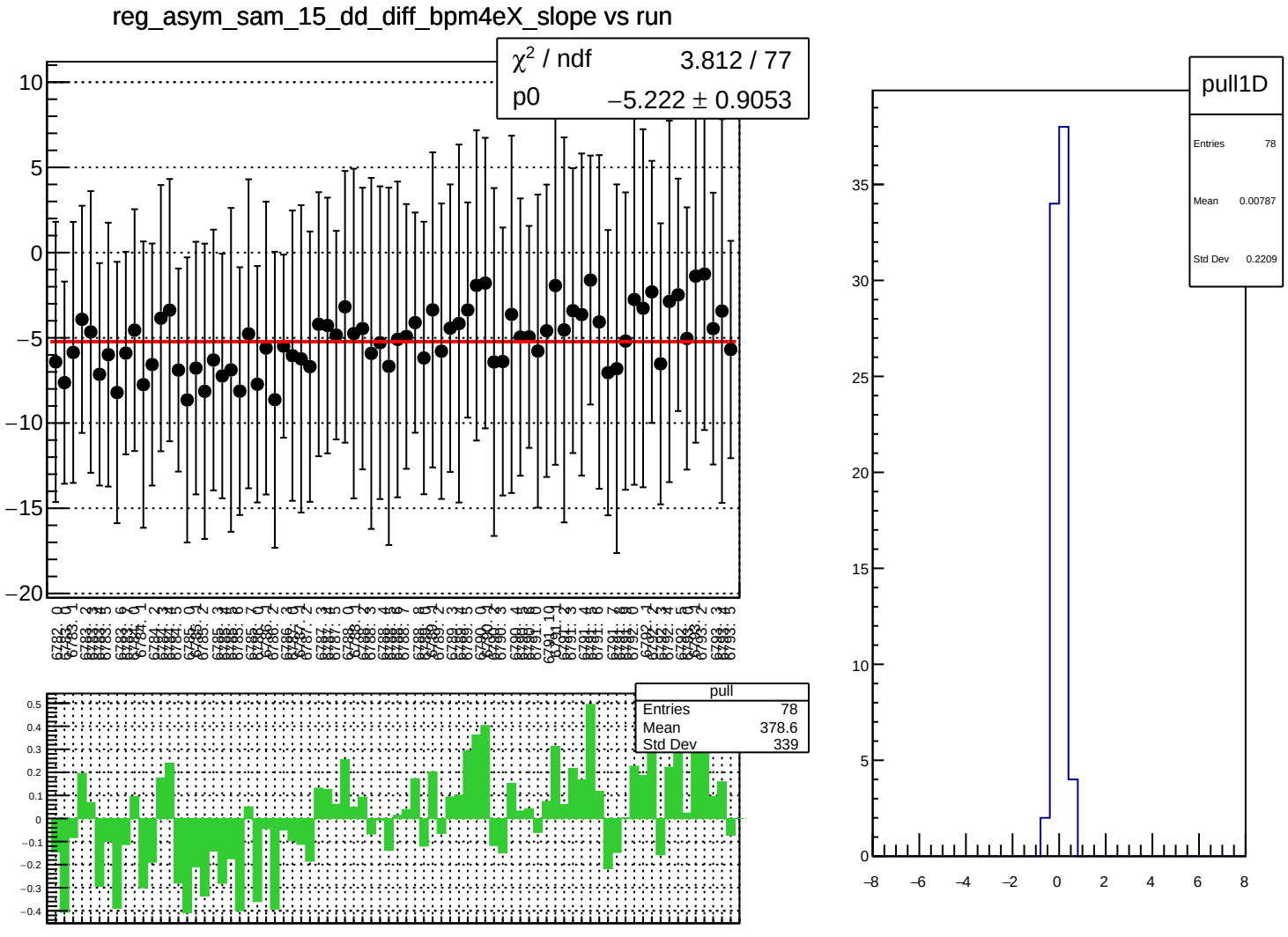

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 7.529 / 77
p0 0.03447 ± 0.01822
pull
Entries 78
Mean 184.4
Std Dev 81.19

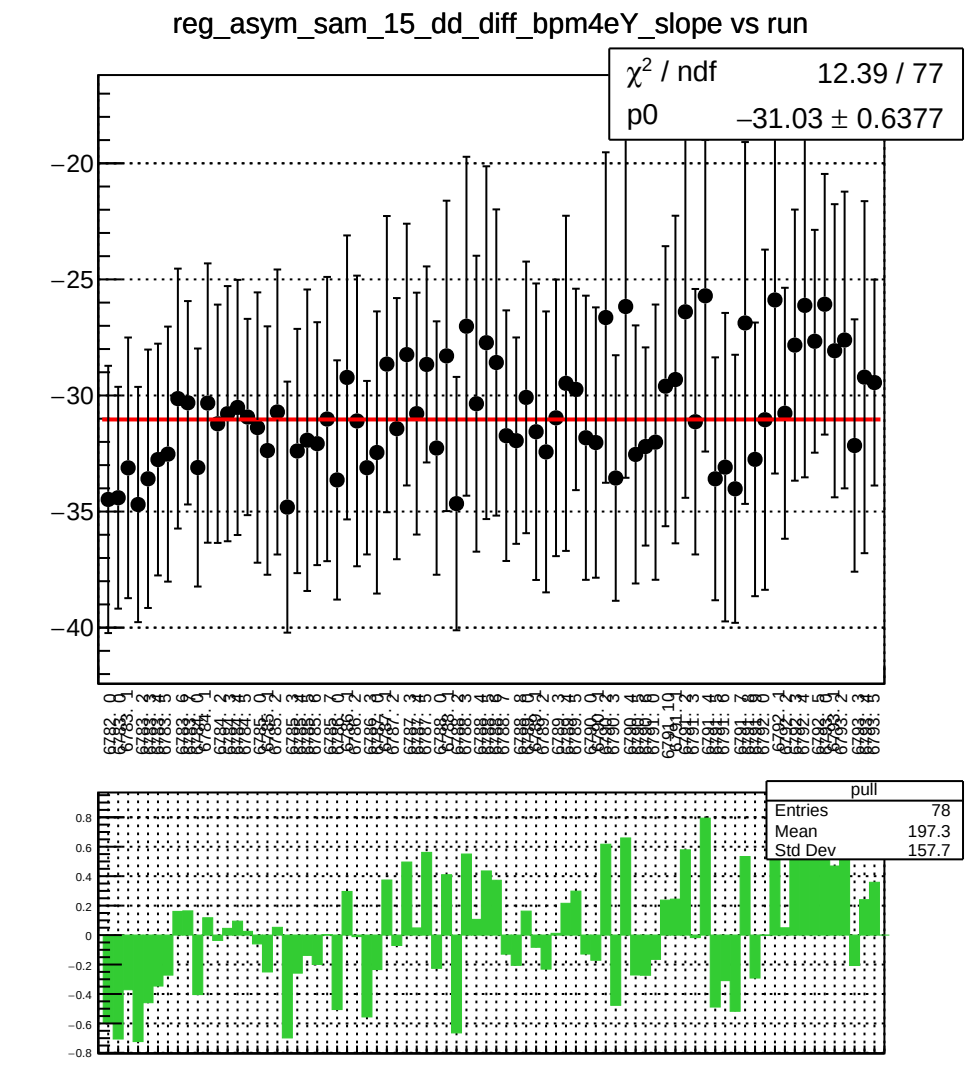

pull1D
Entries 78
Mean 0.0008202
Std Dev 0.3107

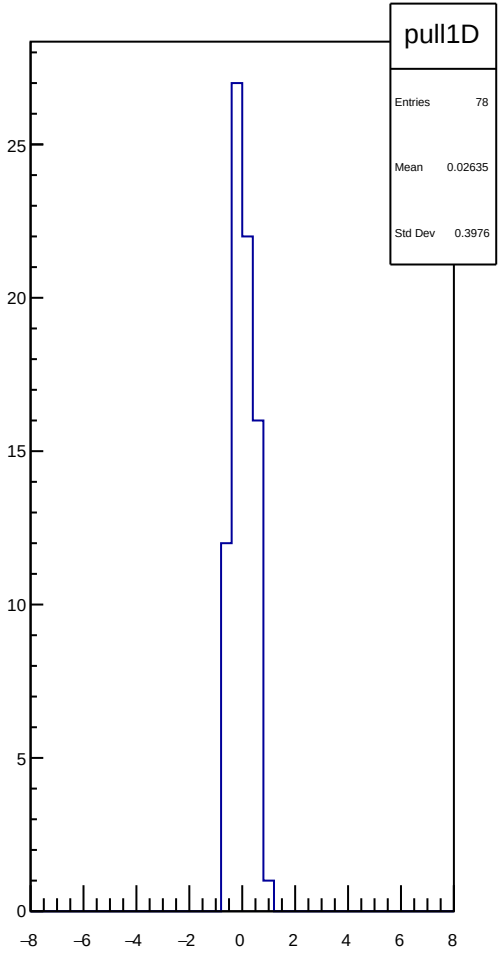

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 3.983 / 77
p0 −7.636 ± 0.9694
pull
Entries 78
Mean 386.3
Std Dev 346.8

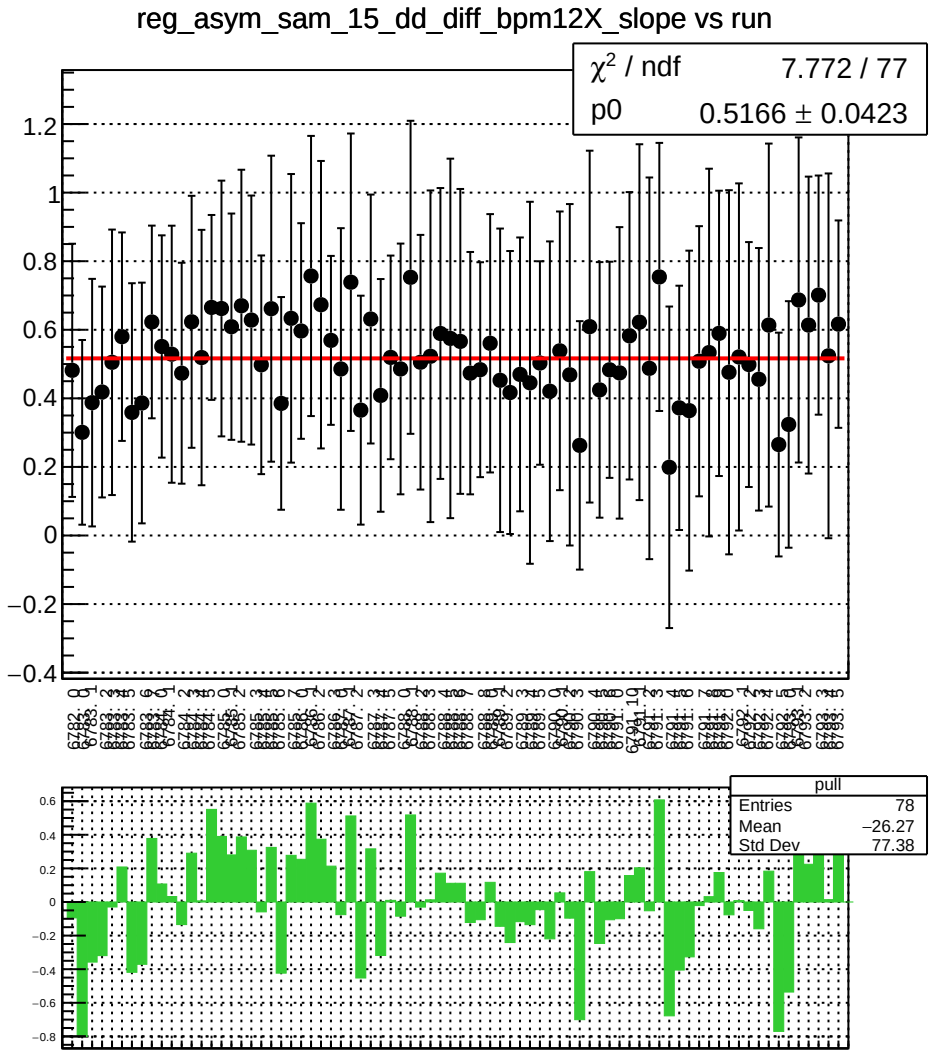

pull1D
Entries 78
Mean −0.008423
Std Dev 0.2258

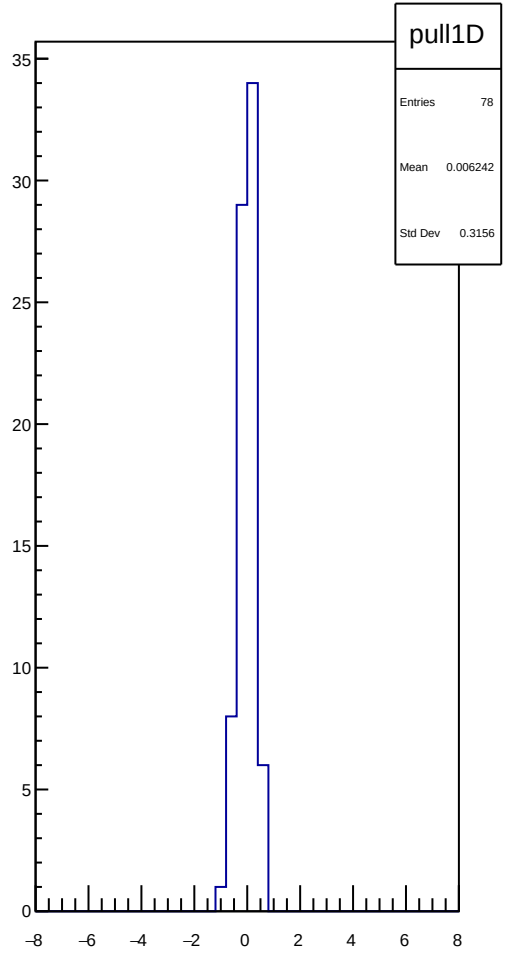

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.82 / 77
p0 −55.51 ± 0.4676
pull
Entries 78
Mean 359.8
Std Dev 320.5
pull1D
Entries 78
Mean −0.01493
Std Dev 0.3722

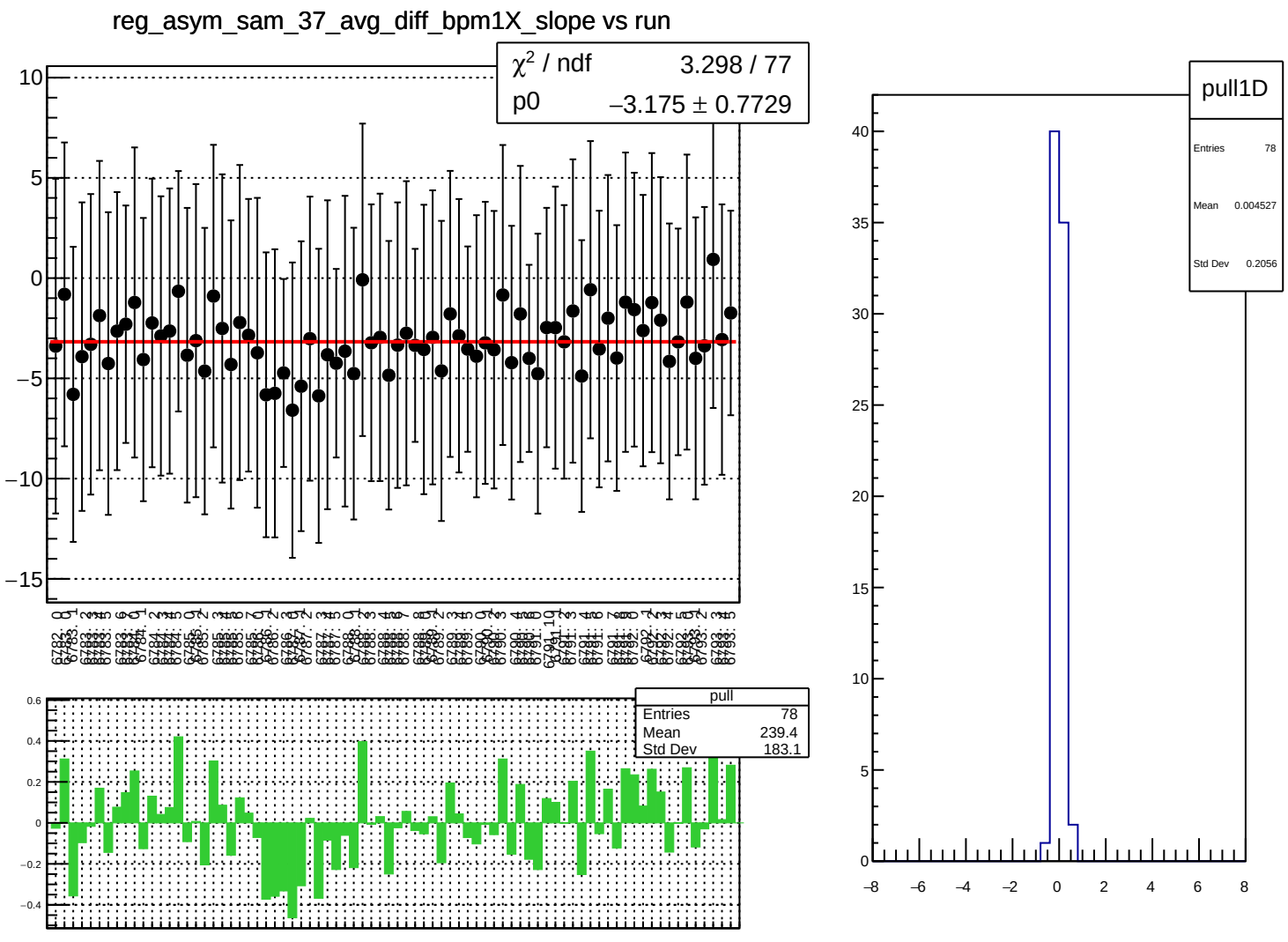

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.812 / 77
p0 −5.222 ± 0.9053
pull
Entries 78
Mean 378.6
Std Dev 339
pull1D
Entries 78
Mean 0.00787
Std Dev 0.2209

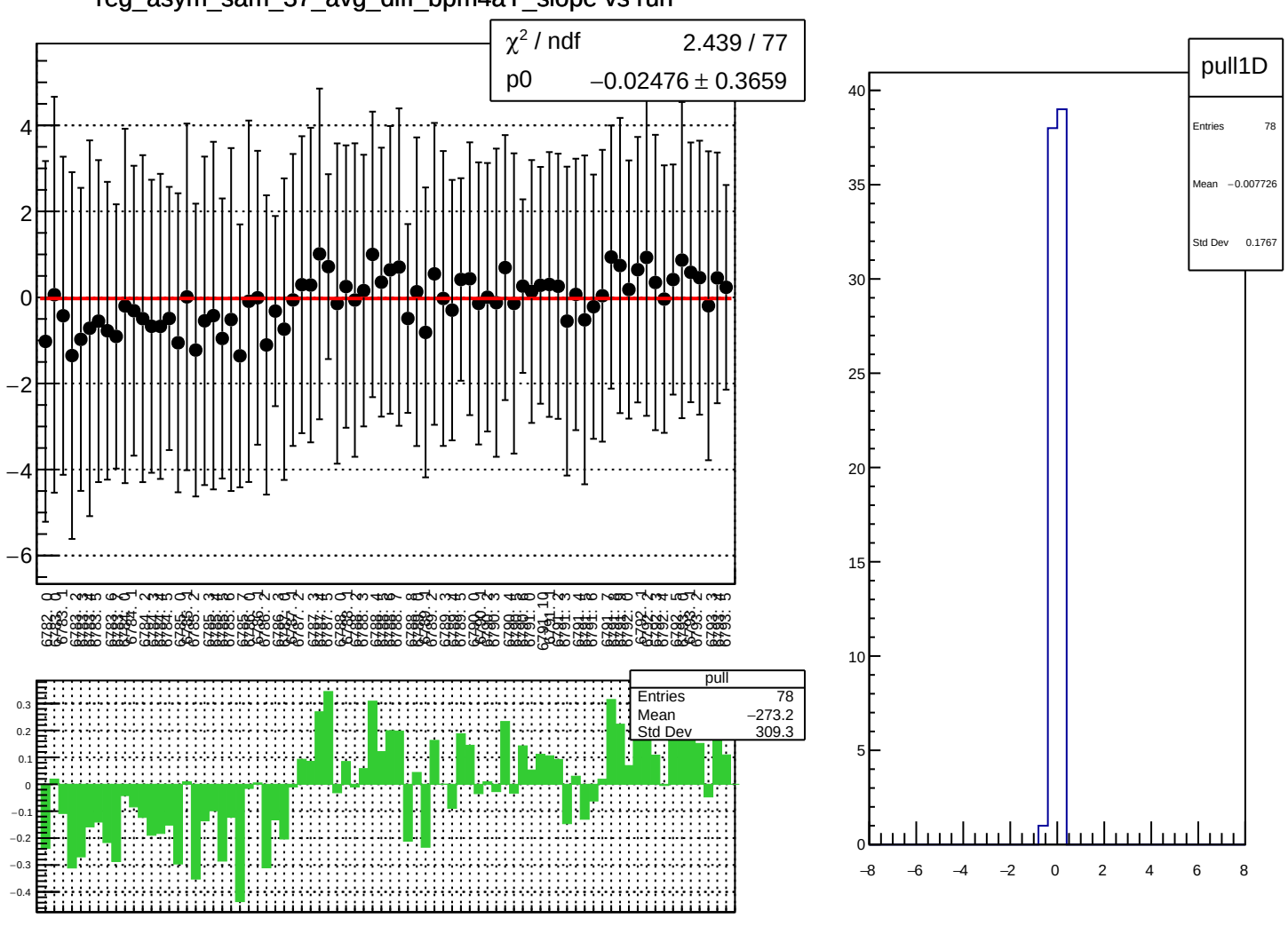

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.39 / 77
p0 −31.03 ± 0.6377
pull
Entries 78
Mean 197.3
Std Dev 157.7

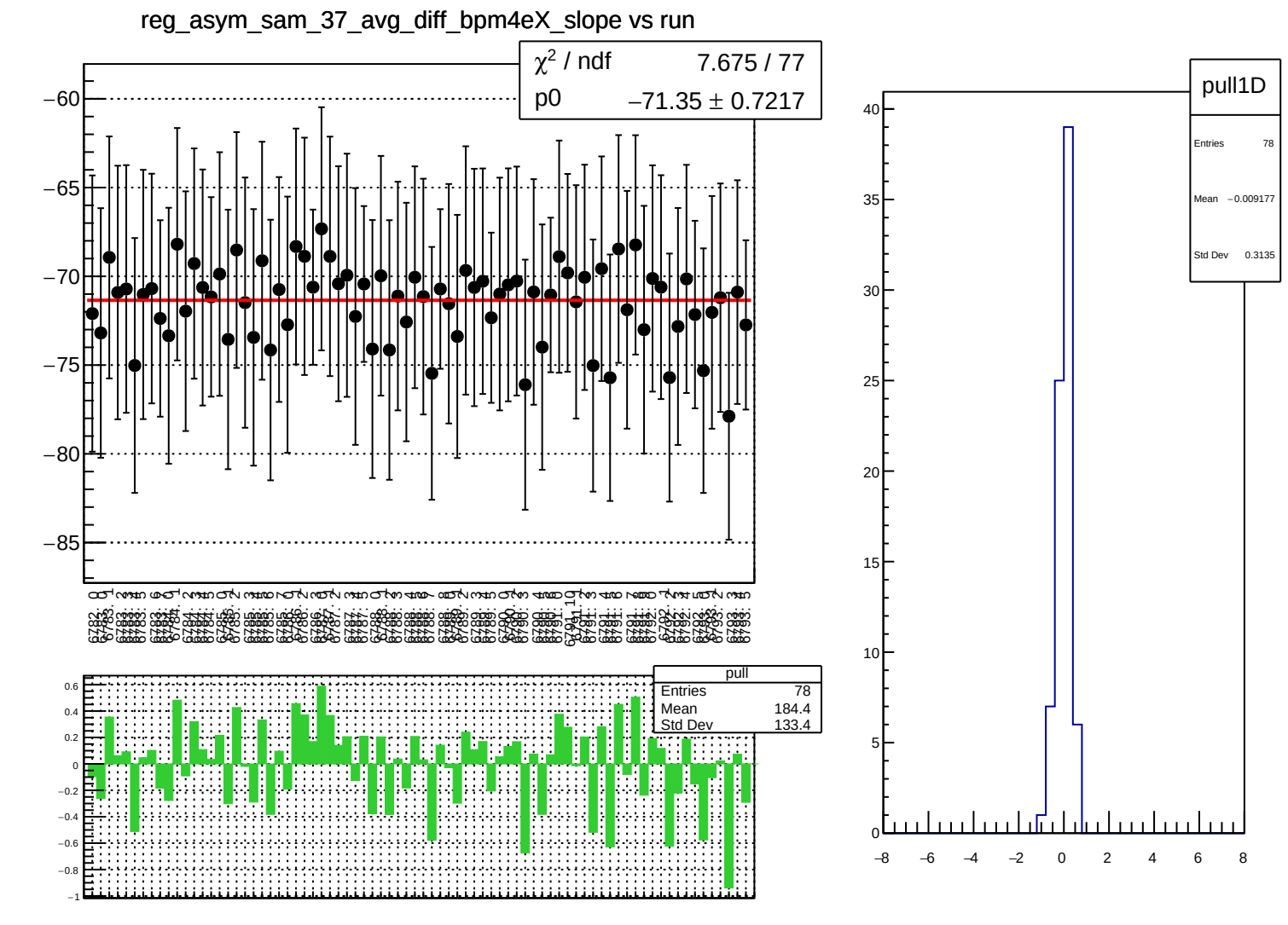

pull1D
Entries 78
Mean 0.02635
Std Dev 0.3976

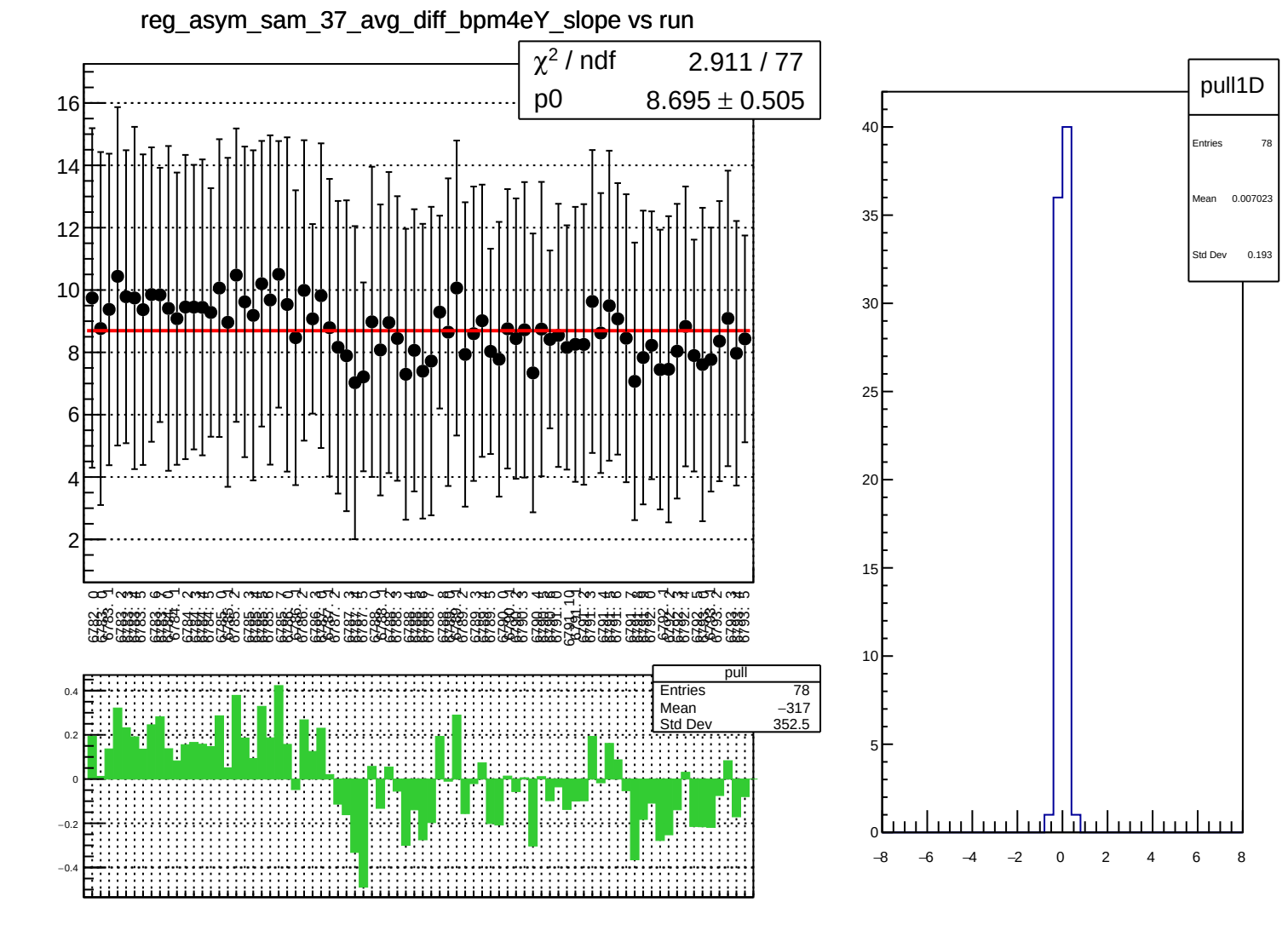

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 7.772 / 77
p0 0.5166 ± 0.0423
pull
Entries 78
Mean −26.27
Std Dev 77.38

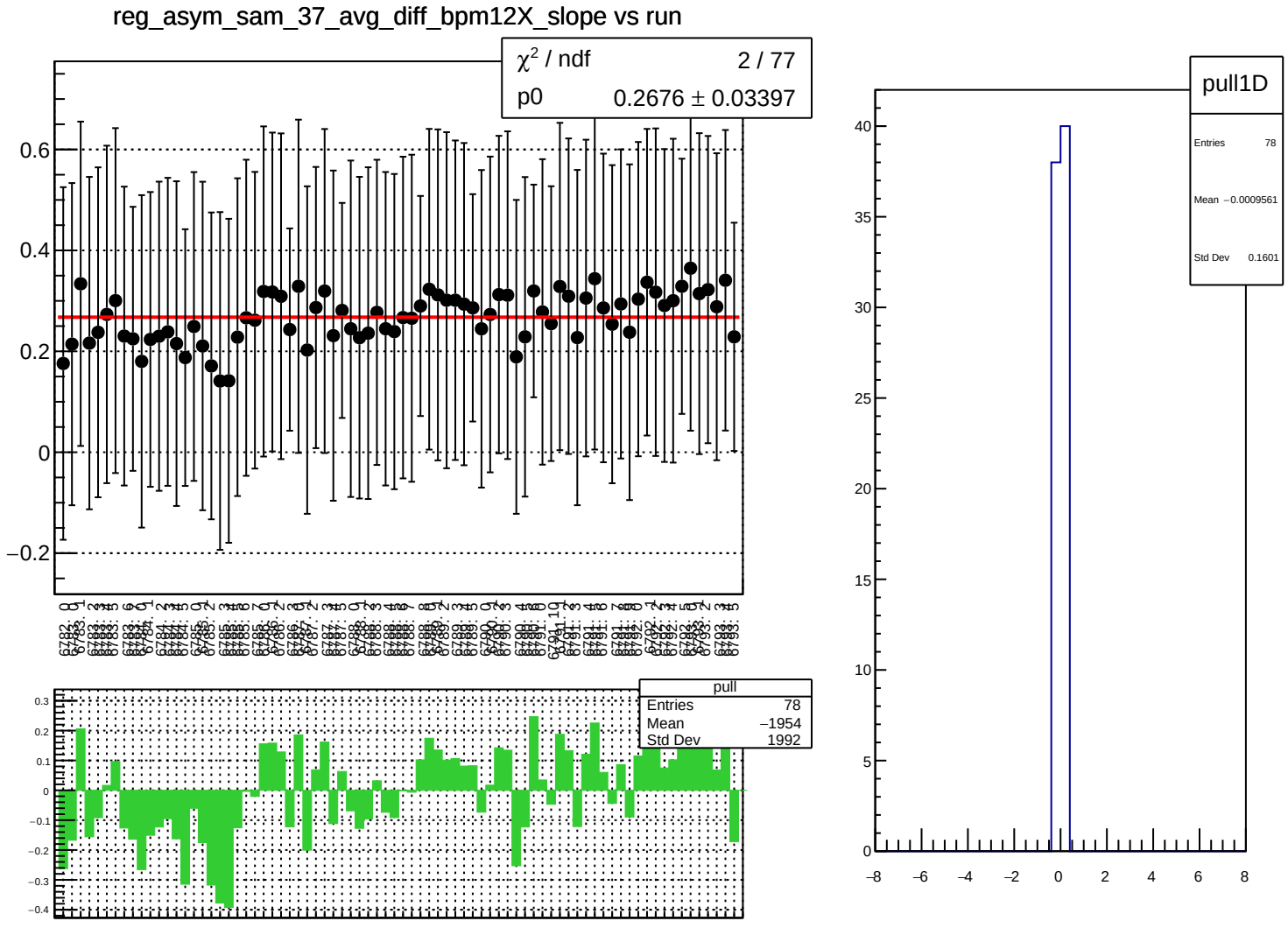

pull1D
Entries 78
Mean 0.006242
Std Dev 0.3156

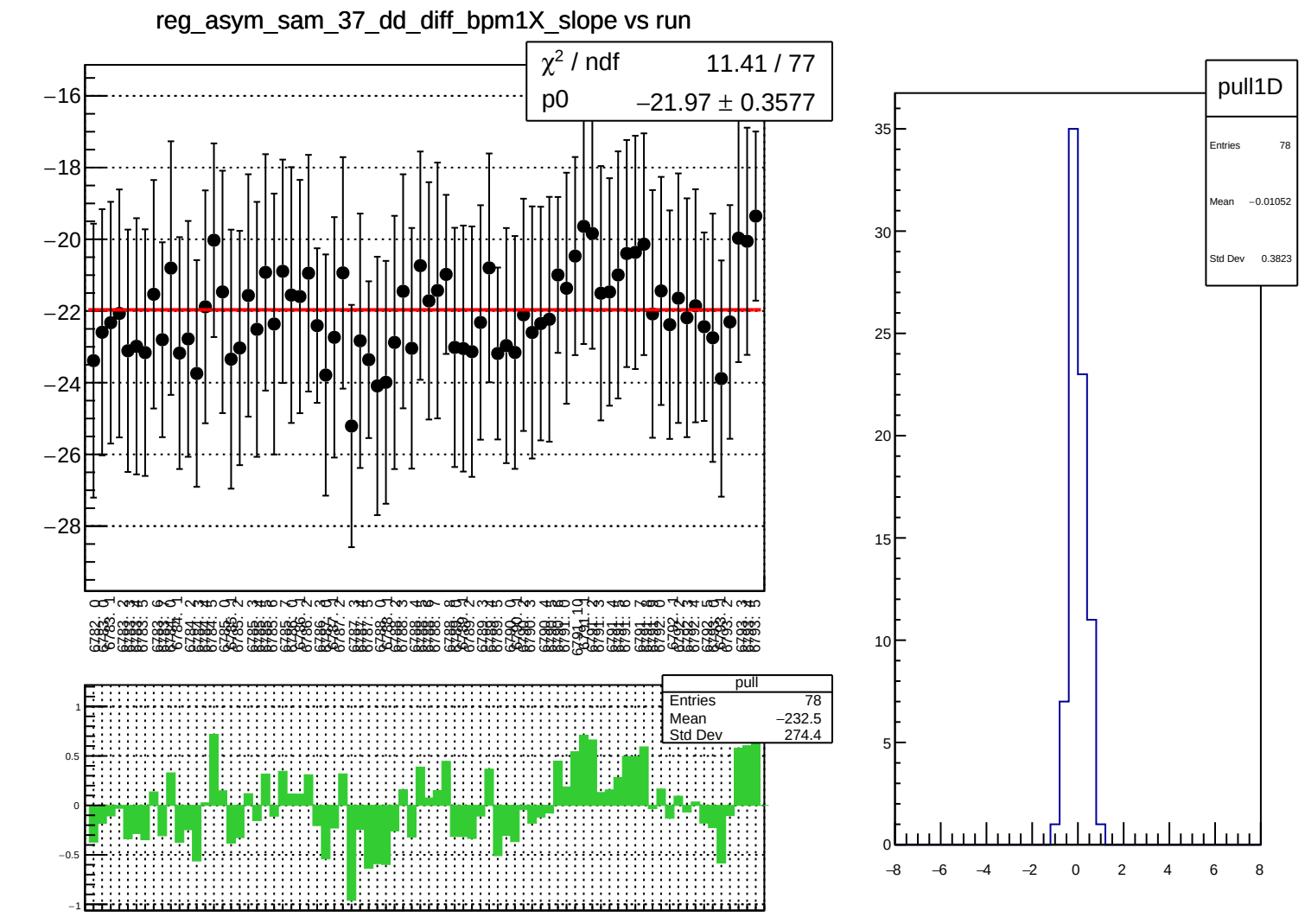

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 3.298 / 77
p0 −3.175 ± 0.7729
pull
Entries 78
Mean 239.4
Std Dev 183.1
pull1D
Entries 78
Mean 0.004527
Std Dev 0.2056

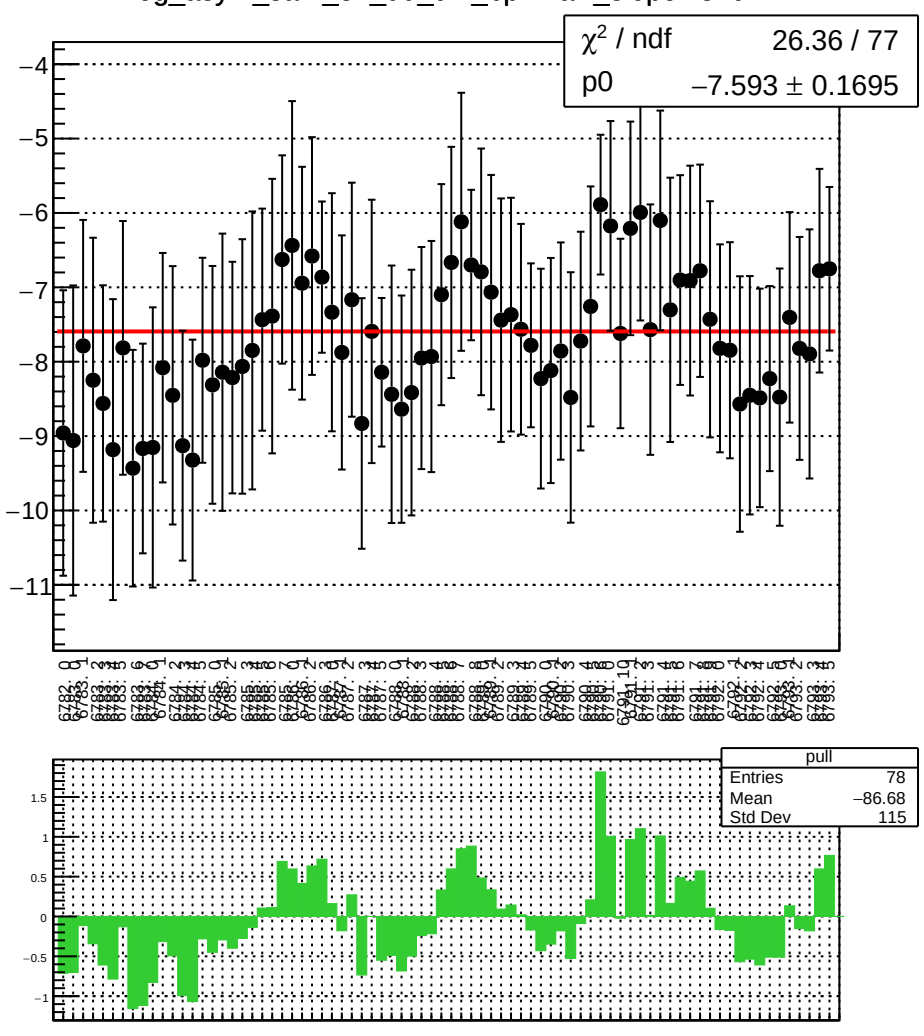

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.439 / 77
p0 −0.02476 ± 0.3659
pull
Entries 78
Mean −273.2
Std Dev 309.3
pull1D
Entries 78
Mean −0.007726
Std Dev 0.1767

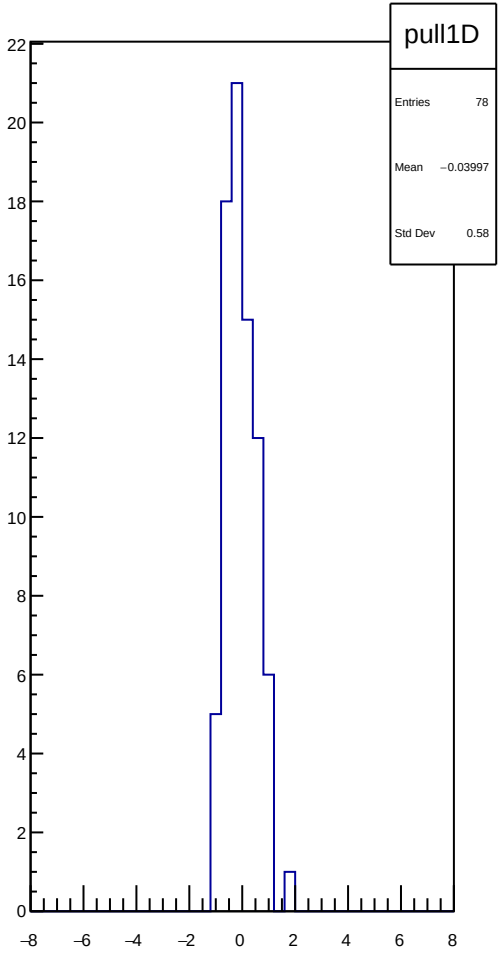

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.675 / 77
p0 −71.35 ± 0.7217
pull
Entries 78
Mean 184.4
Std Dev 133.4
pull1D
Entries 78
Mean −0.009177
Std Dev 0.3135

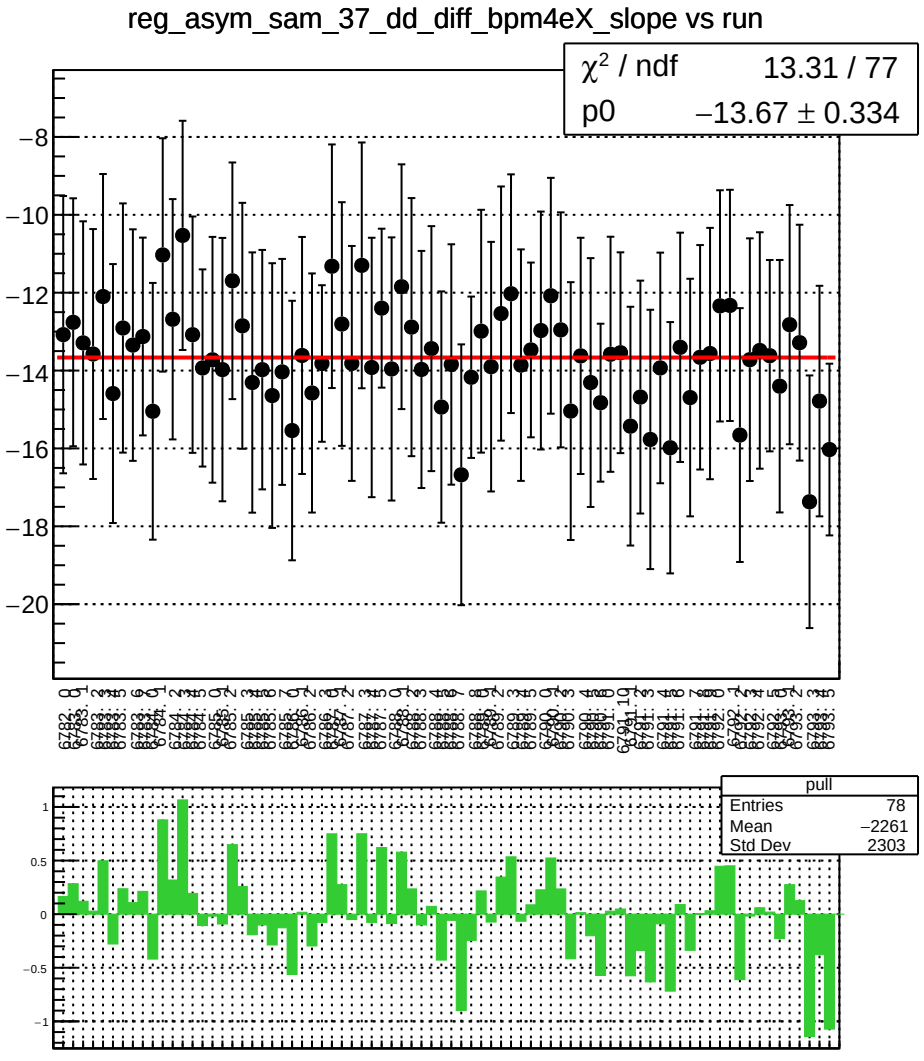

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.911 / 77
p0 8.695 ± 0.505
pull
Entries 78
Mean −317
Std Dev 352.5
pull1D
Entries 78
Mean 0.007023
Std Dev 0.193

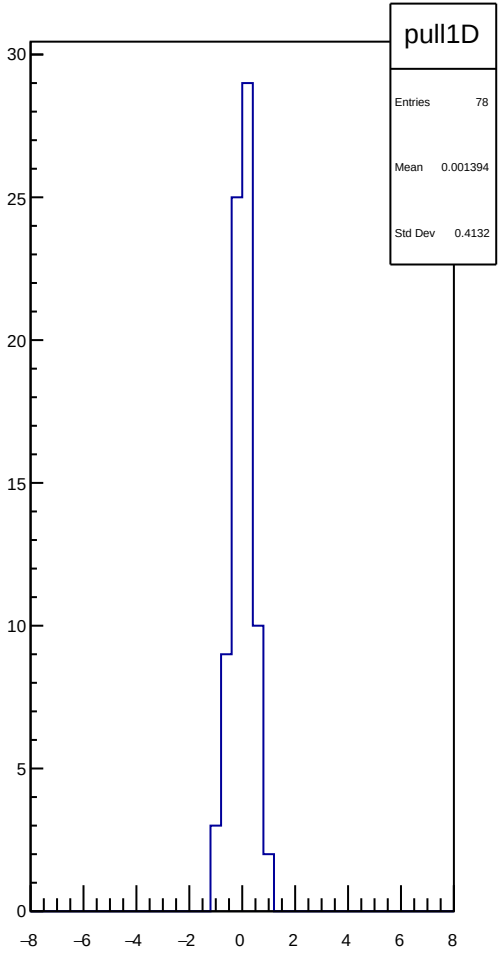

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 2 / 77
p0 0.2676 ± 0.03397
pull
Entries 78
Mean −1954
Std Dev 1992
pull1D
Entries 78
Mean −0.0009561
Std Dev 0.1601

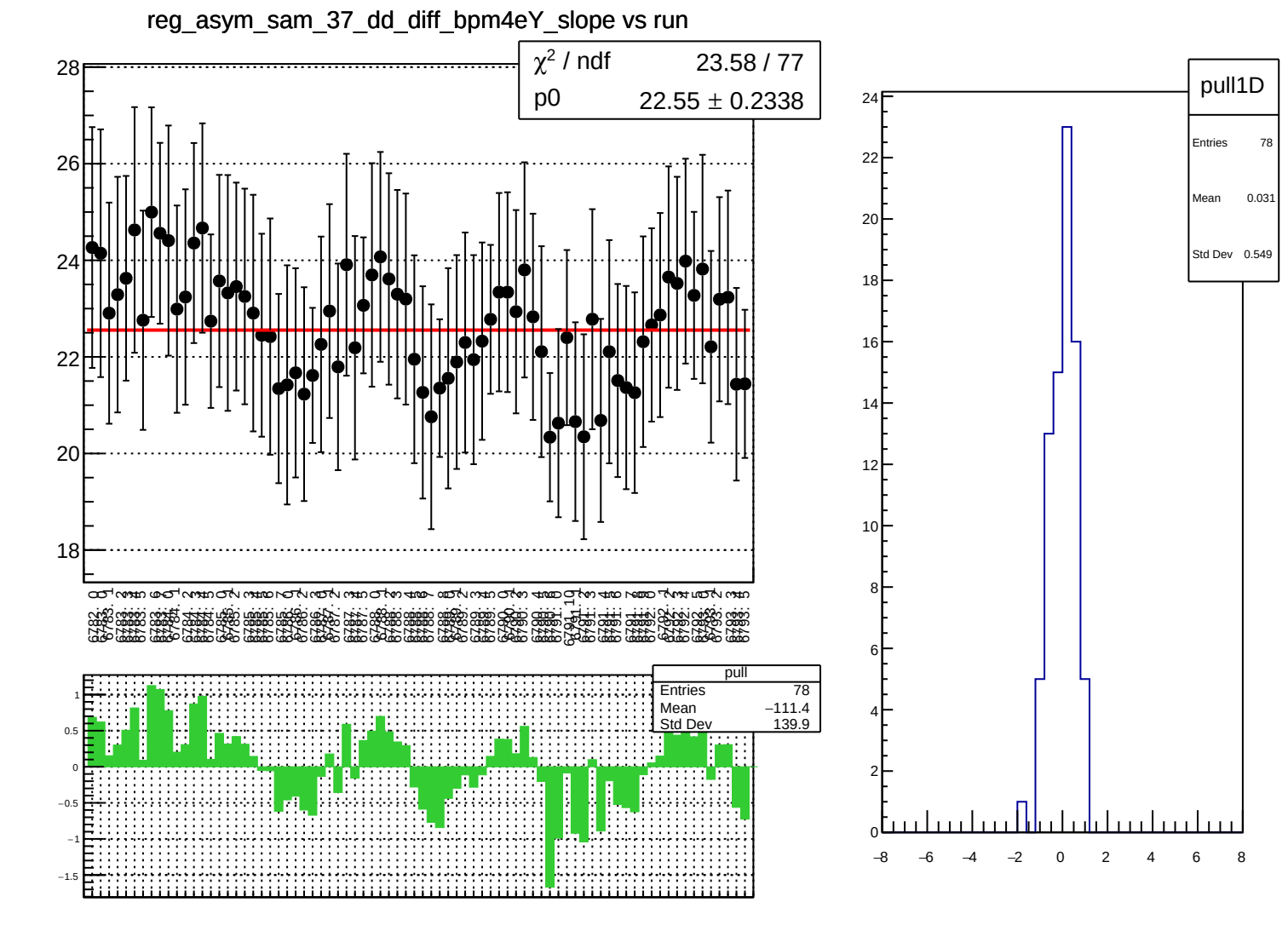

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 11.41 / 77
p0 −21.97 ± 0.3577
pull
Entries 78
Mean −232.5
Std Dev 274.4
pull1D
Entries 78
Mean −0.01052
Std Dev 0.3823

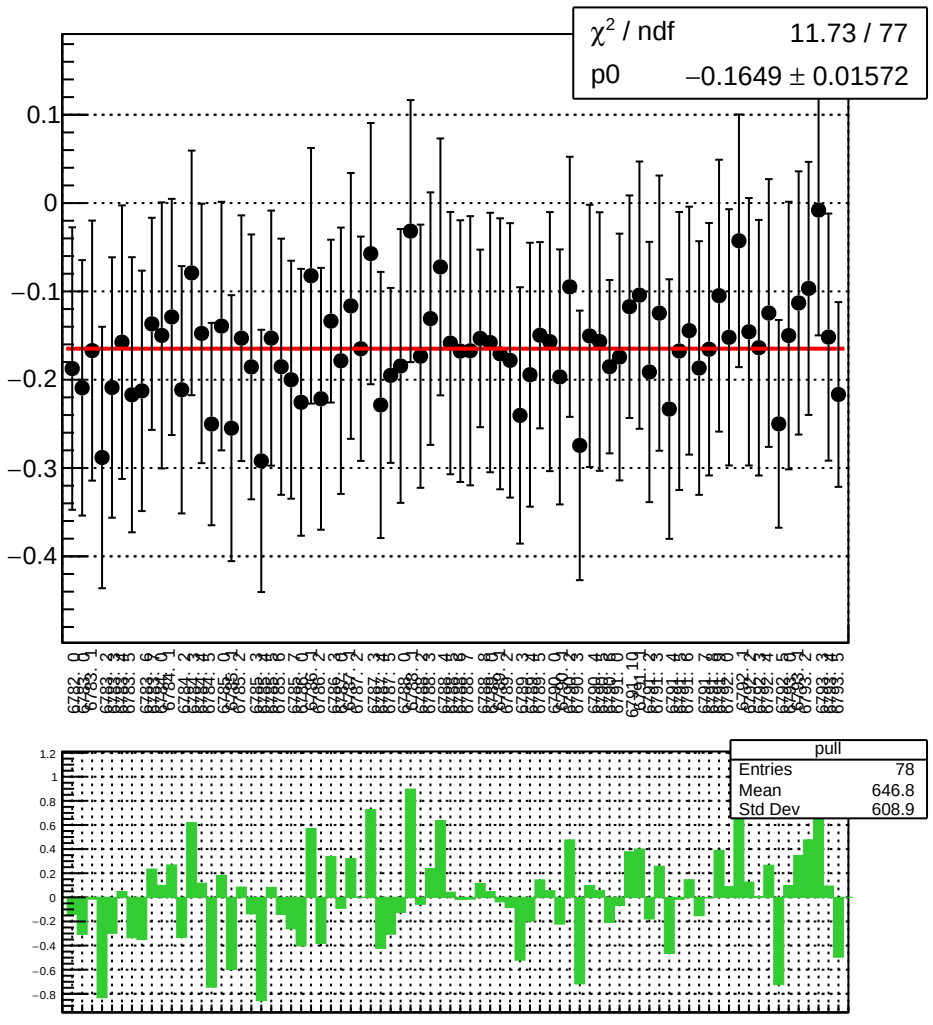

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.36 / 77
p0 −7.593 ± 0.1695
pull
Entries 78
Mean −86.68
Std Dev 115

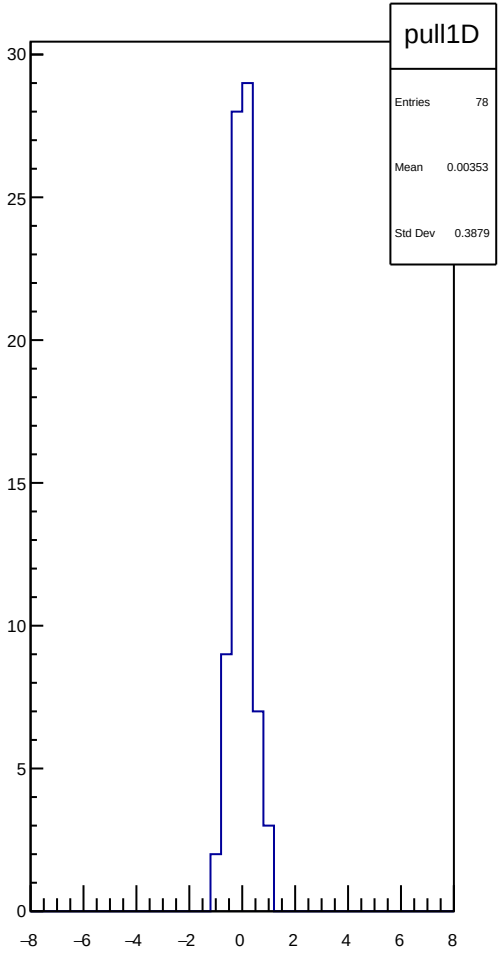

pull1D
Entries 78
Mean −0.03997
Std Dev 0.58

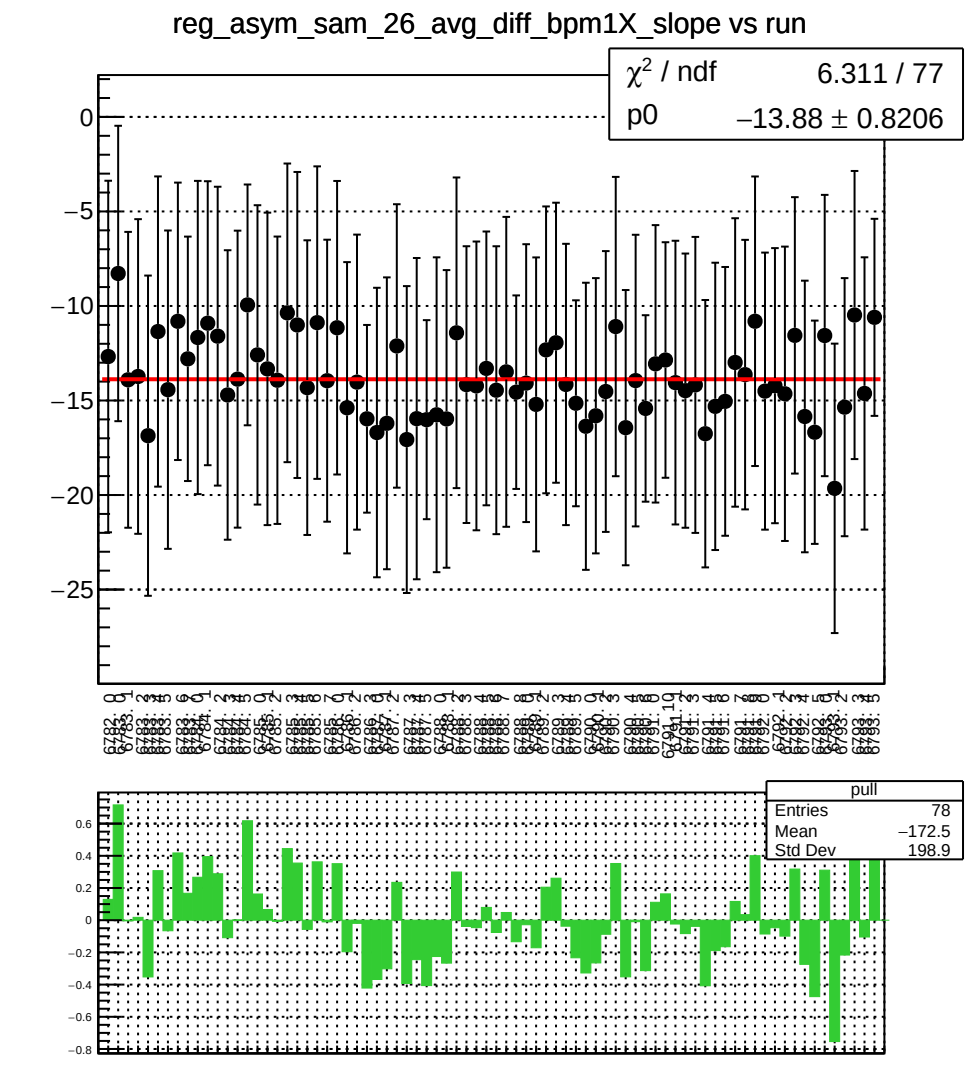

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.31 / 77
p0 −13.67 ± 0.334
pull
Entries 78
Mean −2261
Std Dev 2303

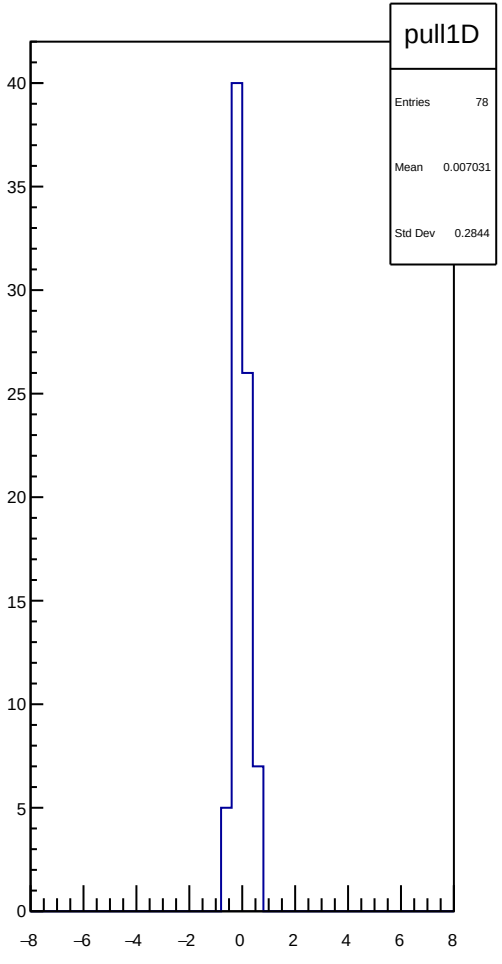

pull1D
Entries 78
Mean 0.001394
Std Dev 0.4132

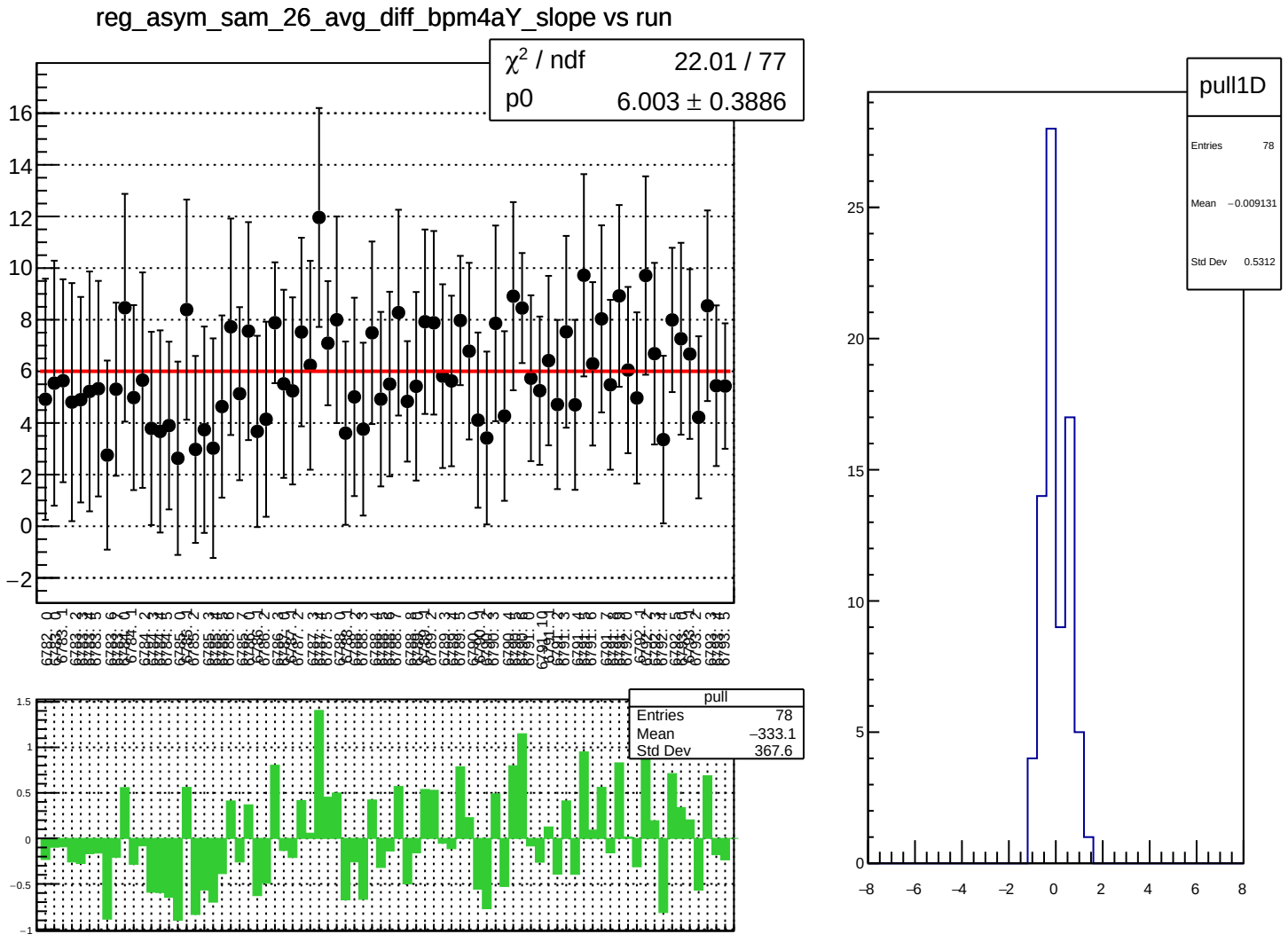

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.58 / 77
p0 22.55 ± 0.2338
pull
Entries 78
Mean −111.4
Std Dev 139.9
pull1D
Entries 78
Mean 0.031
Std Dev 0.549

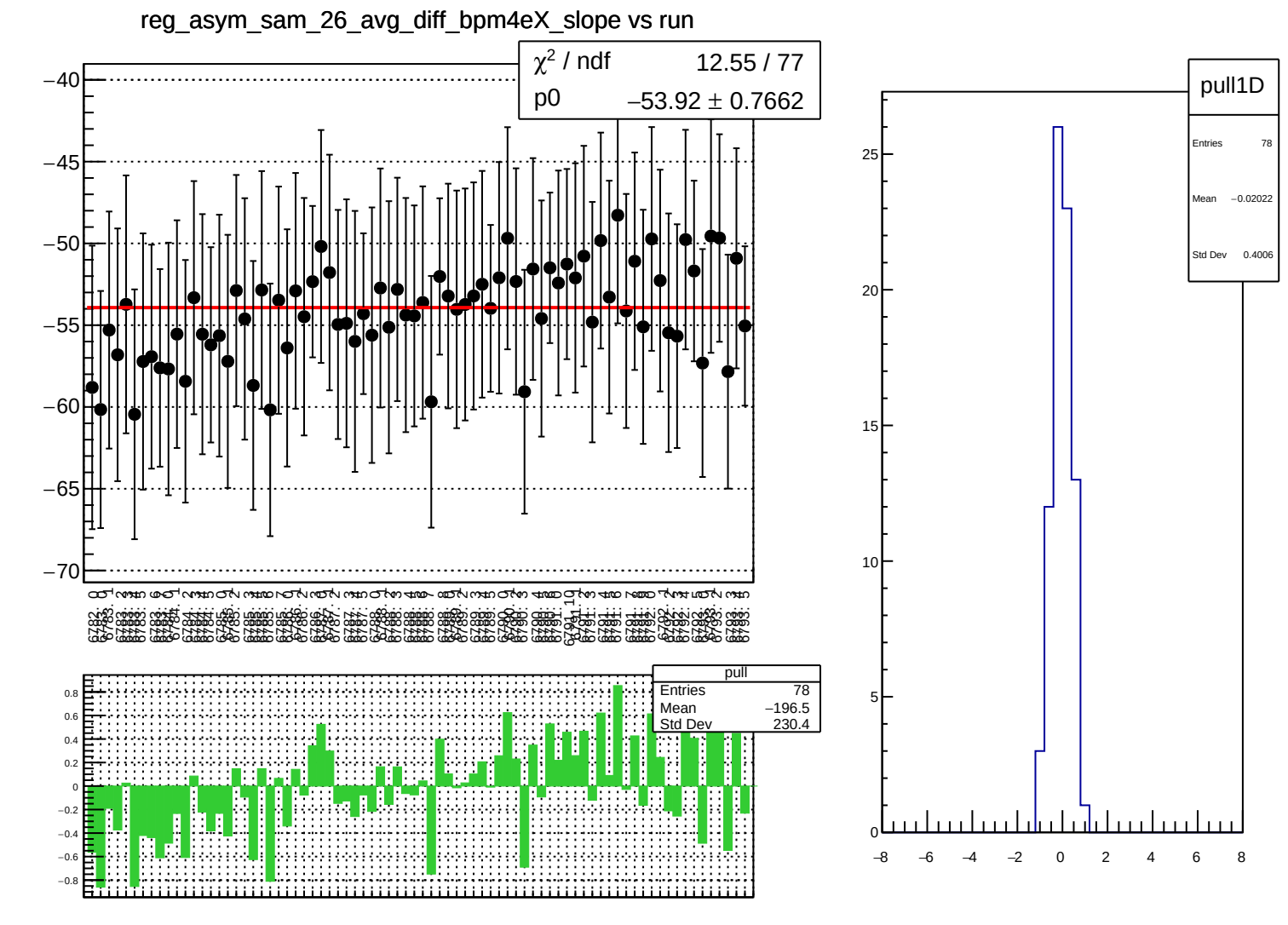

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 11.73 / 77
p0 −0.1649 ± 0.01572
pull
Entries 78
Mean 646.8
Std Dev 608.9

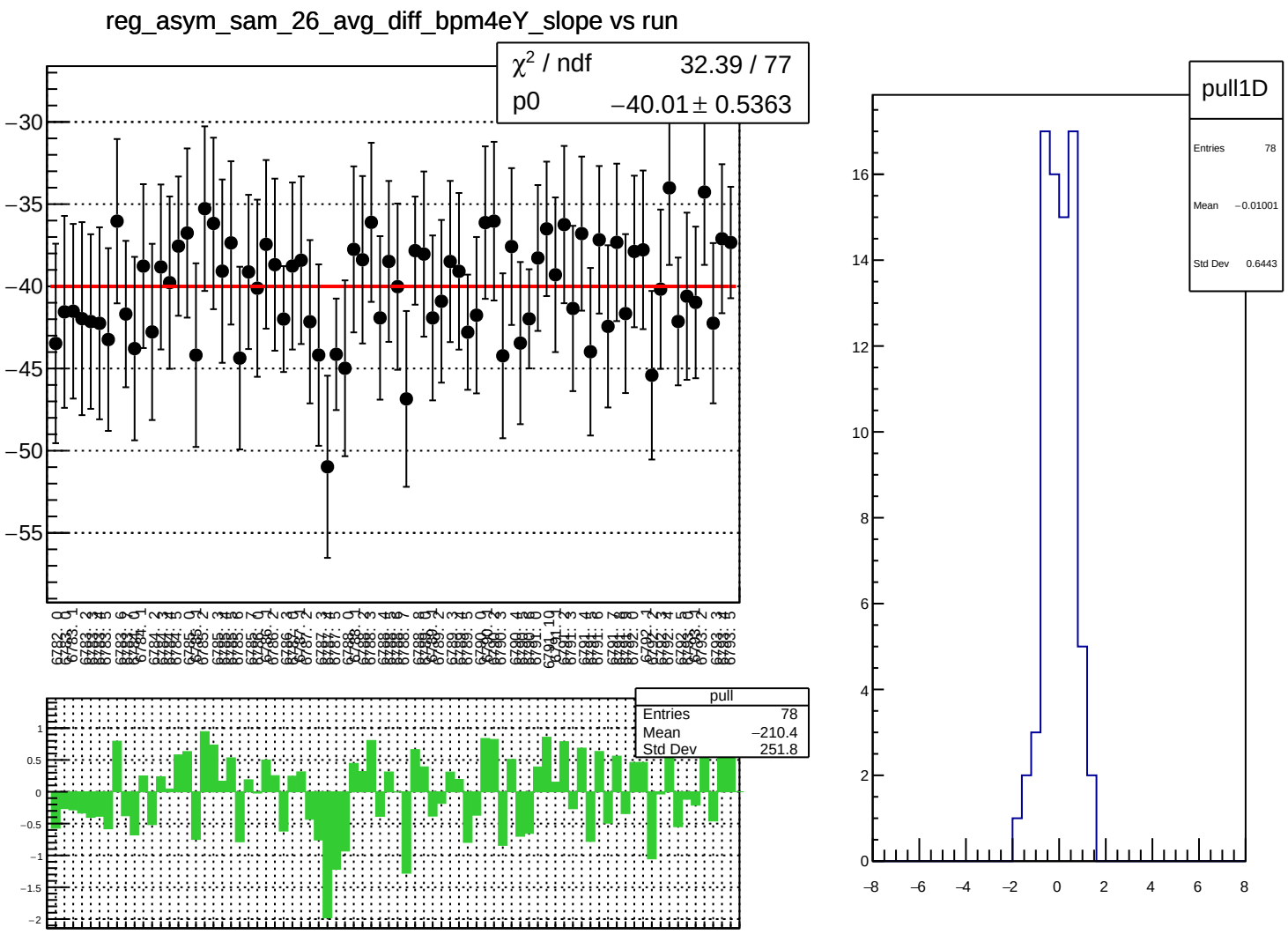

pull1D
Entries 78
Mean 0.00353
Std Dev 0.3879

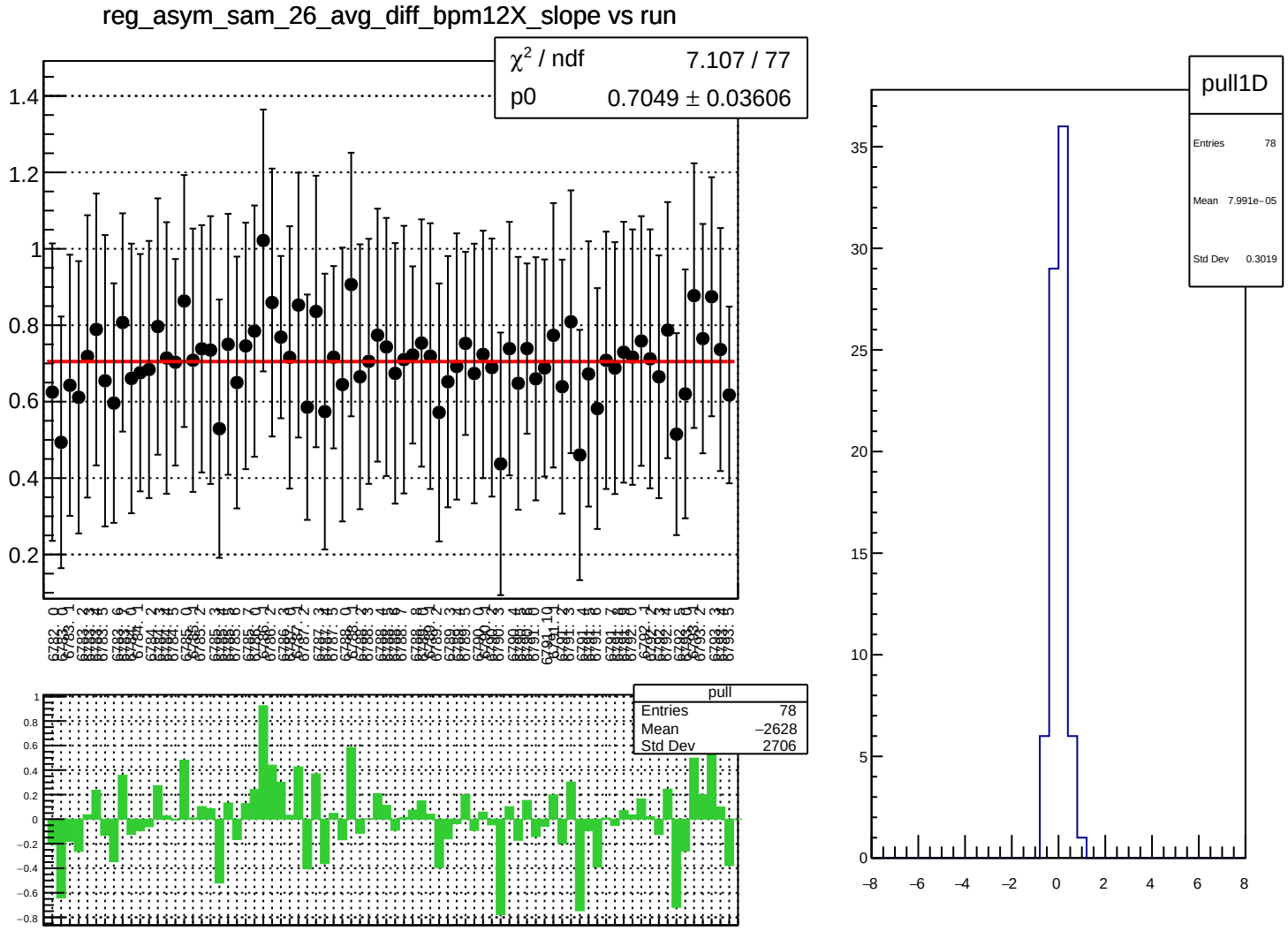

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 6.311 / 77
p0 −13.88 ± 0.8206
pull
Entries 78
Mean −172.5
Std Dev 198.9

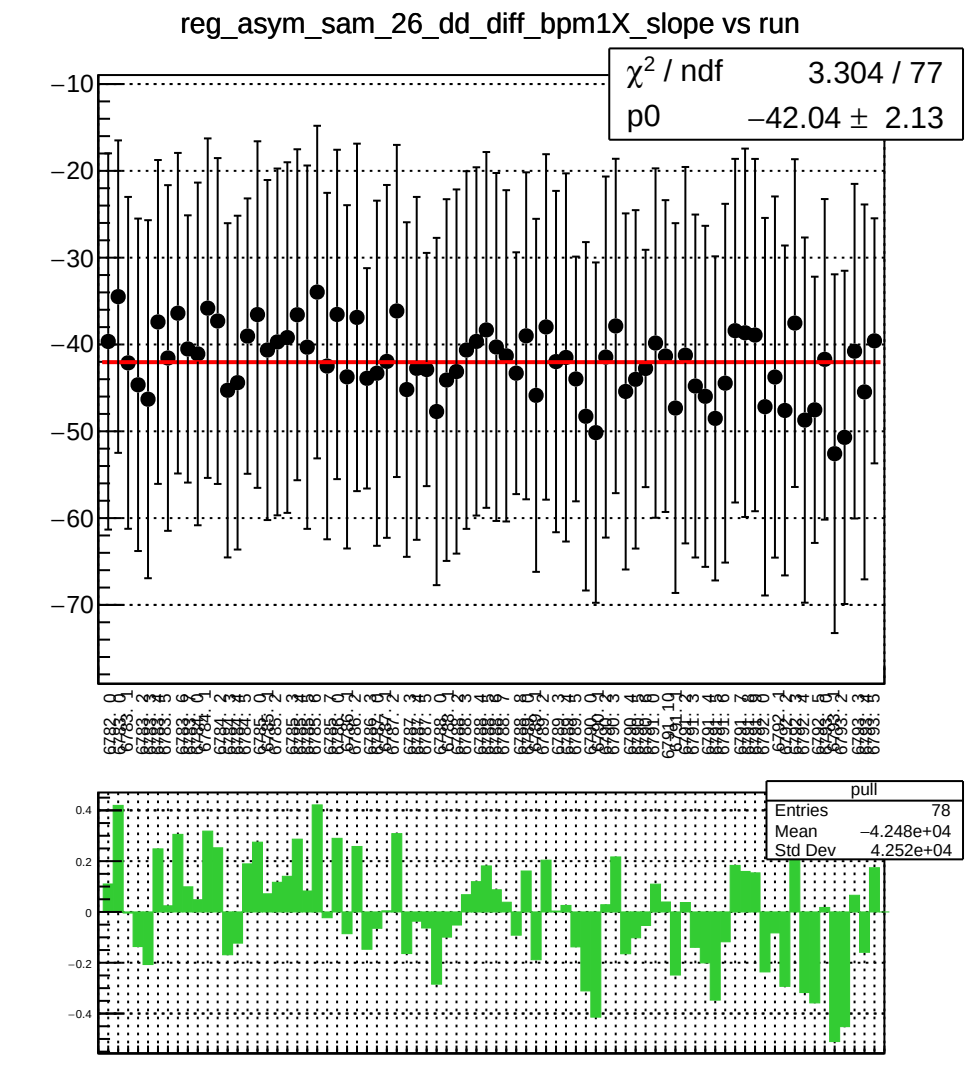

pull1D
Entries 78
Mean 0.007031
Std Dev 0.2844

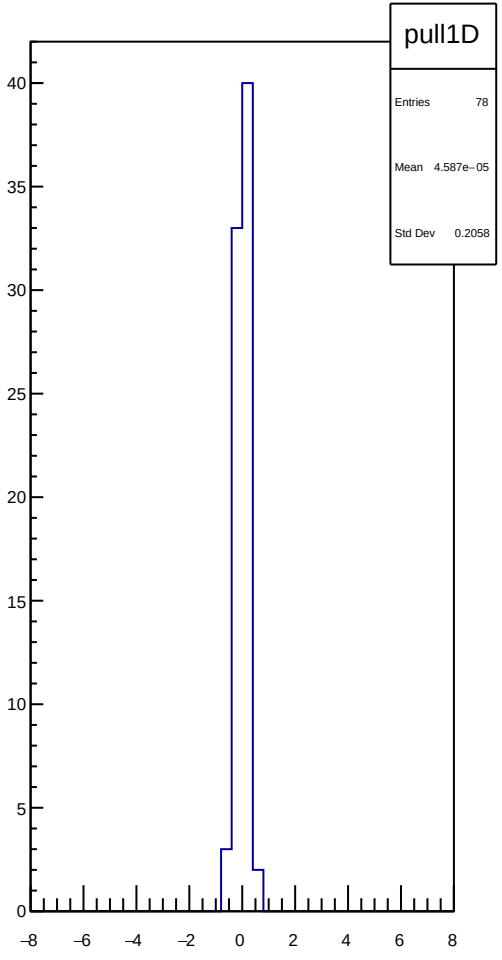

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.01 / 77
p0 6.003 ± 0.3886
pull
Entries 78
Mean −333.1
Std Dev 367.6
pull1D
Entries 78
Mean −0.009131
Std Dev 0.5312

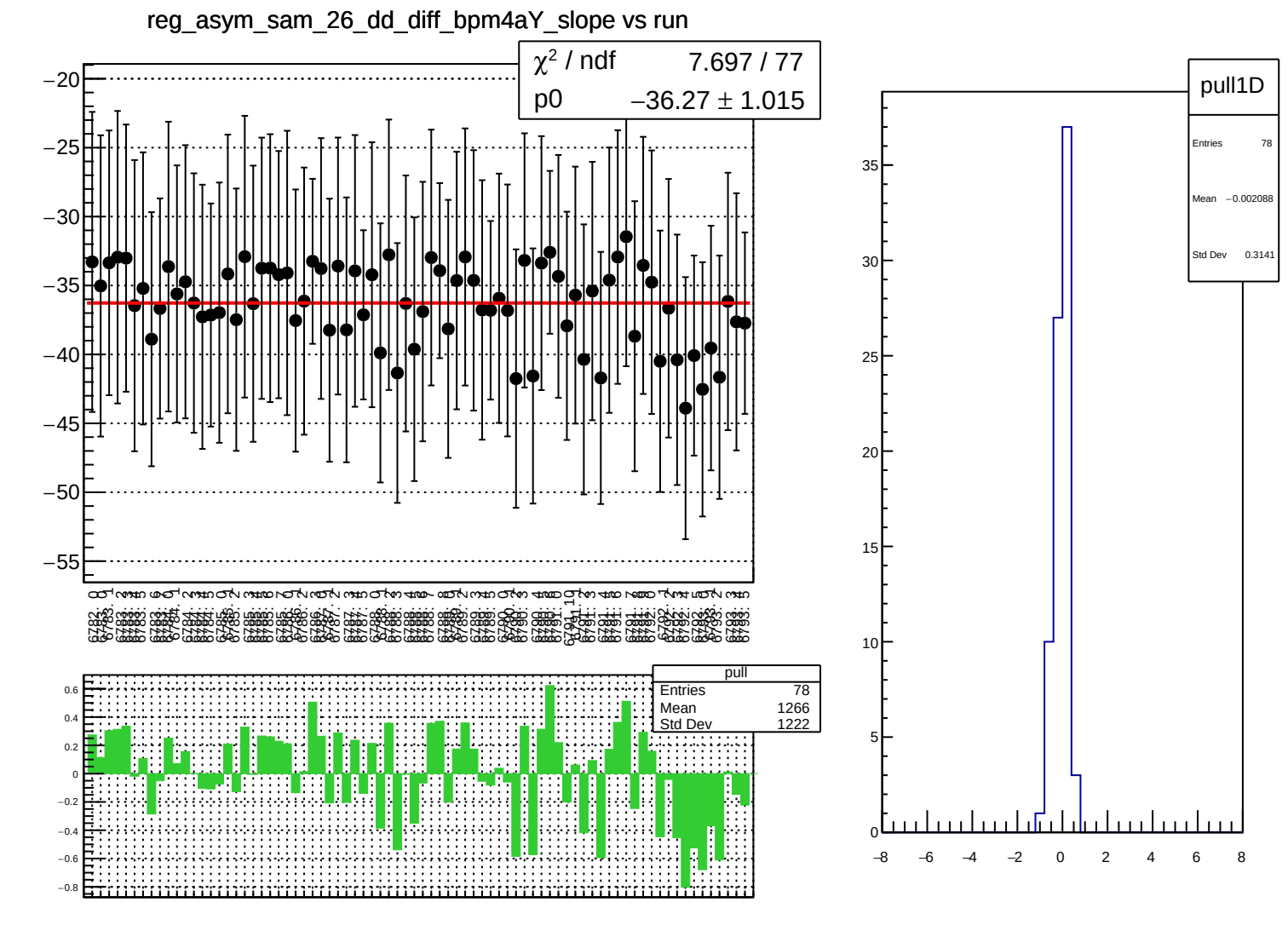

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.55 / 77
p0 −53.92 ± 0.7662
pull
Entries 78
Mean −196.5
Std Dev 230.4
pull1D
Entries 78
Mean −0.02022
Std Dev 0.4006

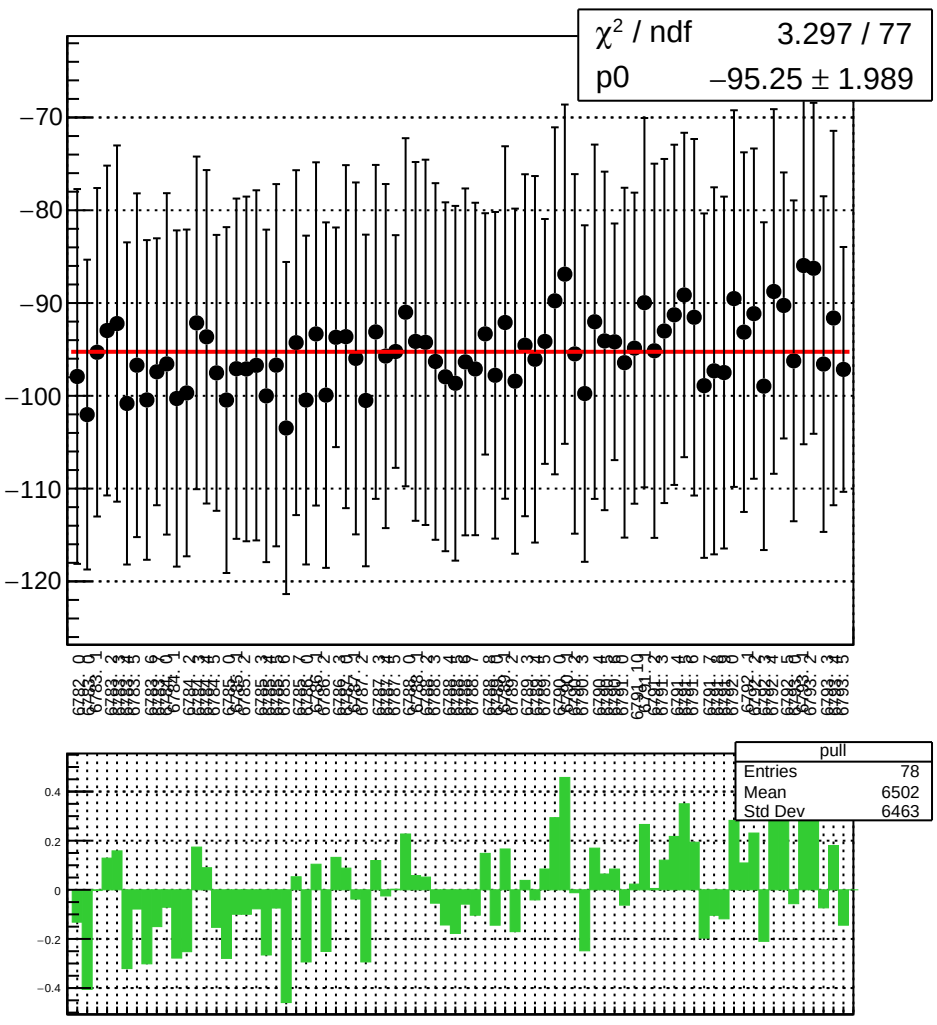

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.39 / 77
p0 −40.01 ± 0.5363
pull
Entries 78
Mean −210.4
Std Dev 251.8
pull1D
Entries 78
Mean −0.01001
Std Dev 0.6443

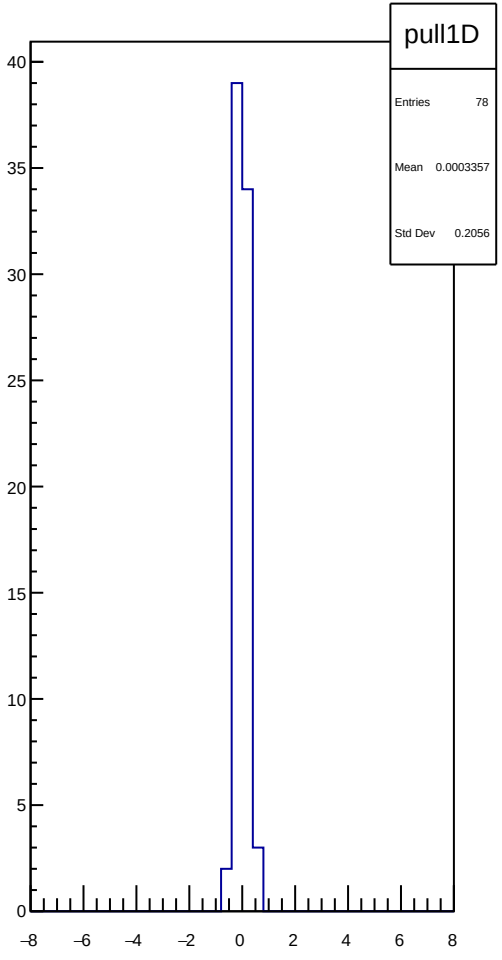

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 7.107 / 77
p0 0.7049 ± 0.03606
pull
Entries 78
Mean −2628
Std Dev 2706
pull1D
Entries 78
Mean 7.991e−05
Std Dev 0.3019

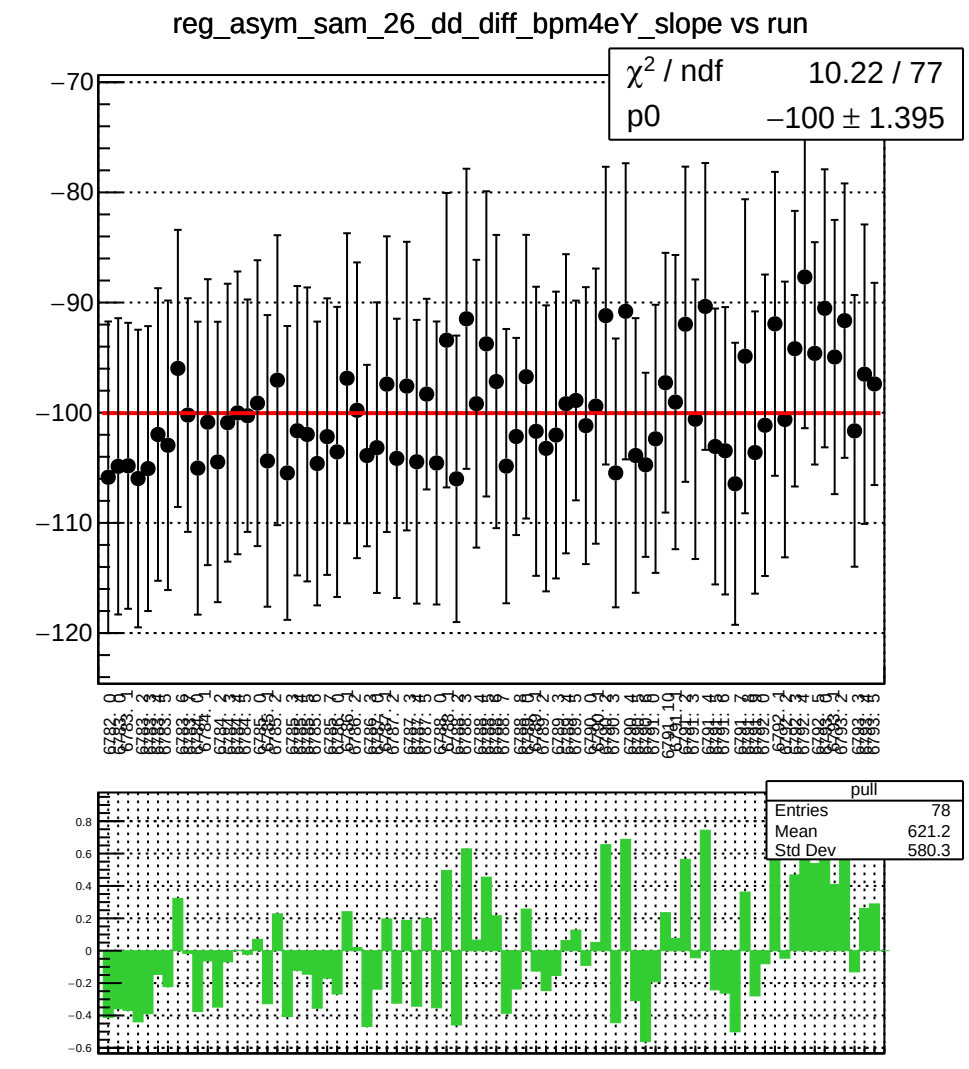

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 3.304 / 77
p0 −42.04 ± 2.13
pull
Entries 78
Mean −4.248e+04
Std Dev 4.252e+04

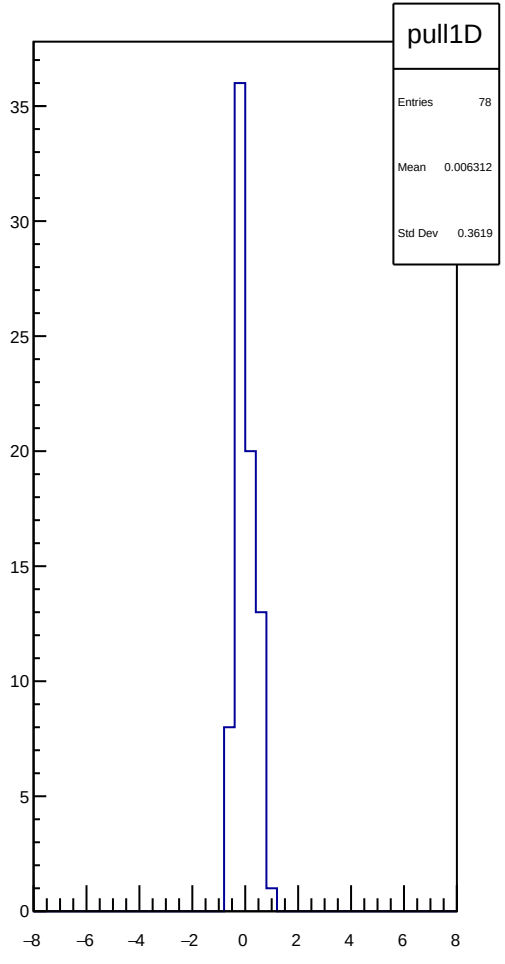

pull1D
Entries 78
Mean 4.587e−05
Std Dev 0.2058

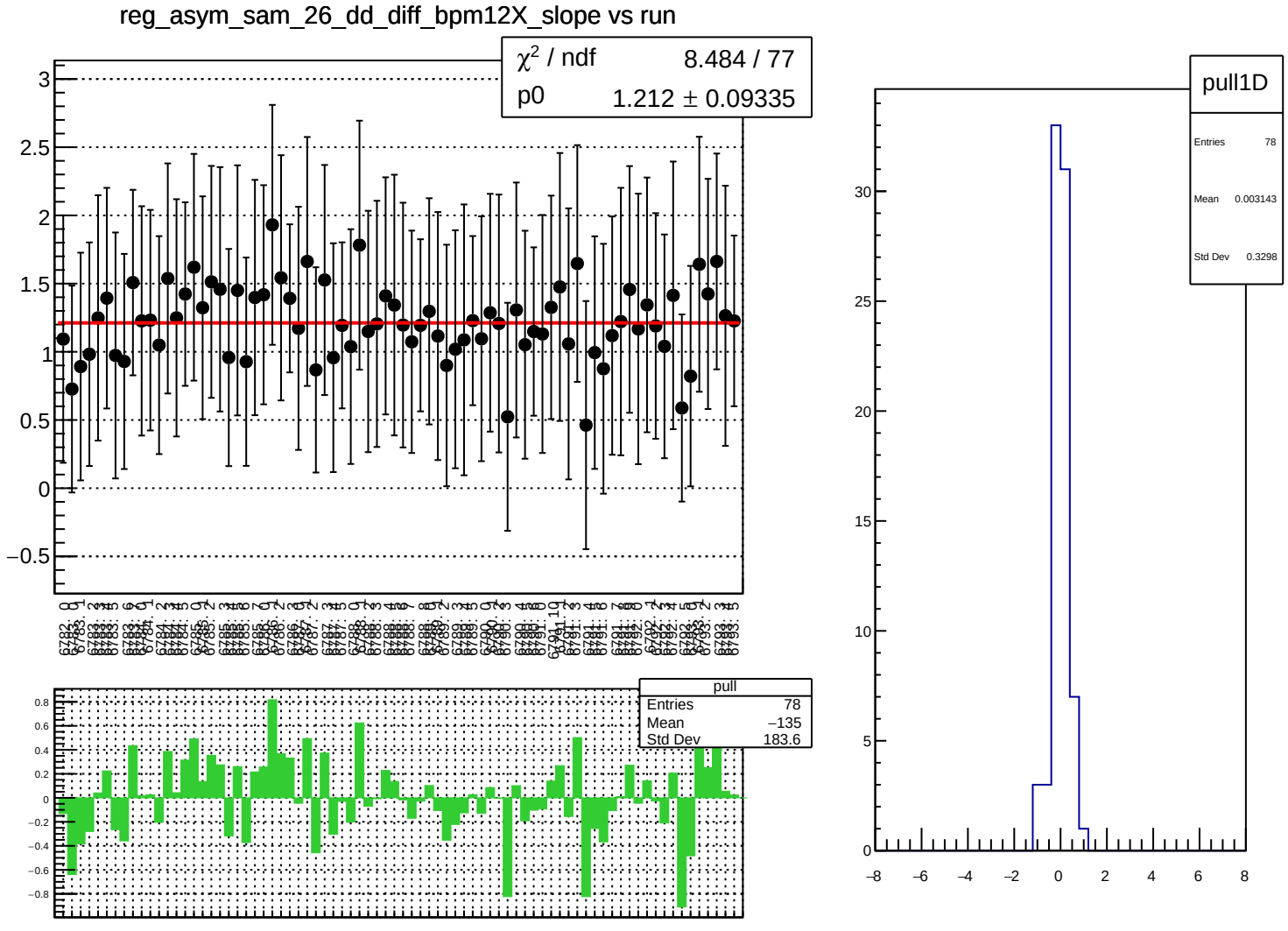

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.697 / 77
p0 −36.27 ± 1.015
pull
Entries 78
Mean 1266
Std Dev 1222
pull1D
Entries 78
Mean −0.002088
Std Dev 0.3141

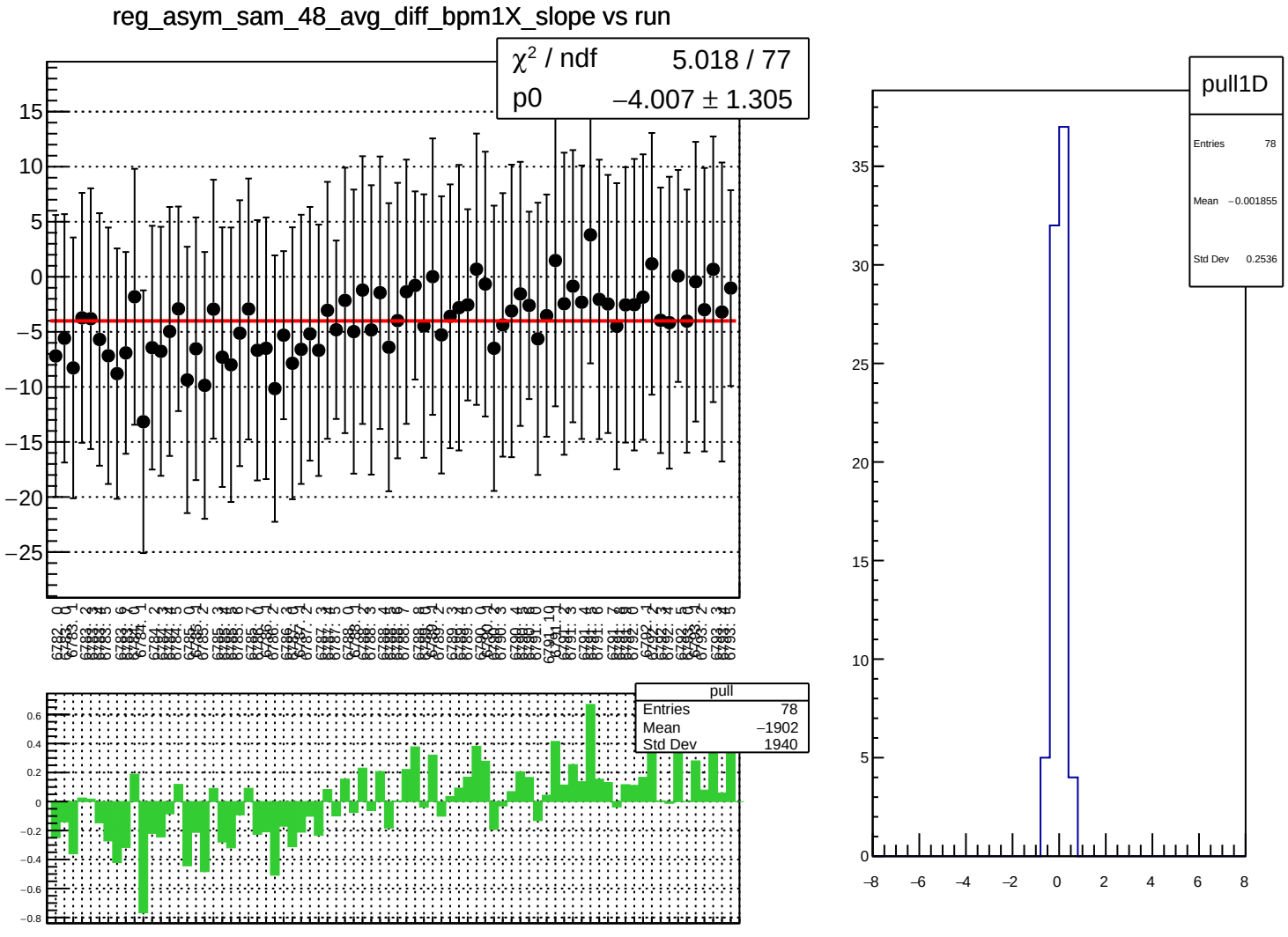

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.297 / 77
p0 −95.25 ± 1.989
pull
Entries 78
Mean 6502
Std Dev 6463

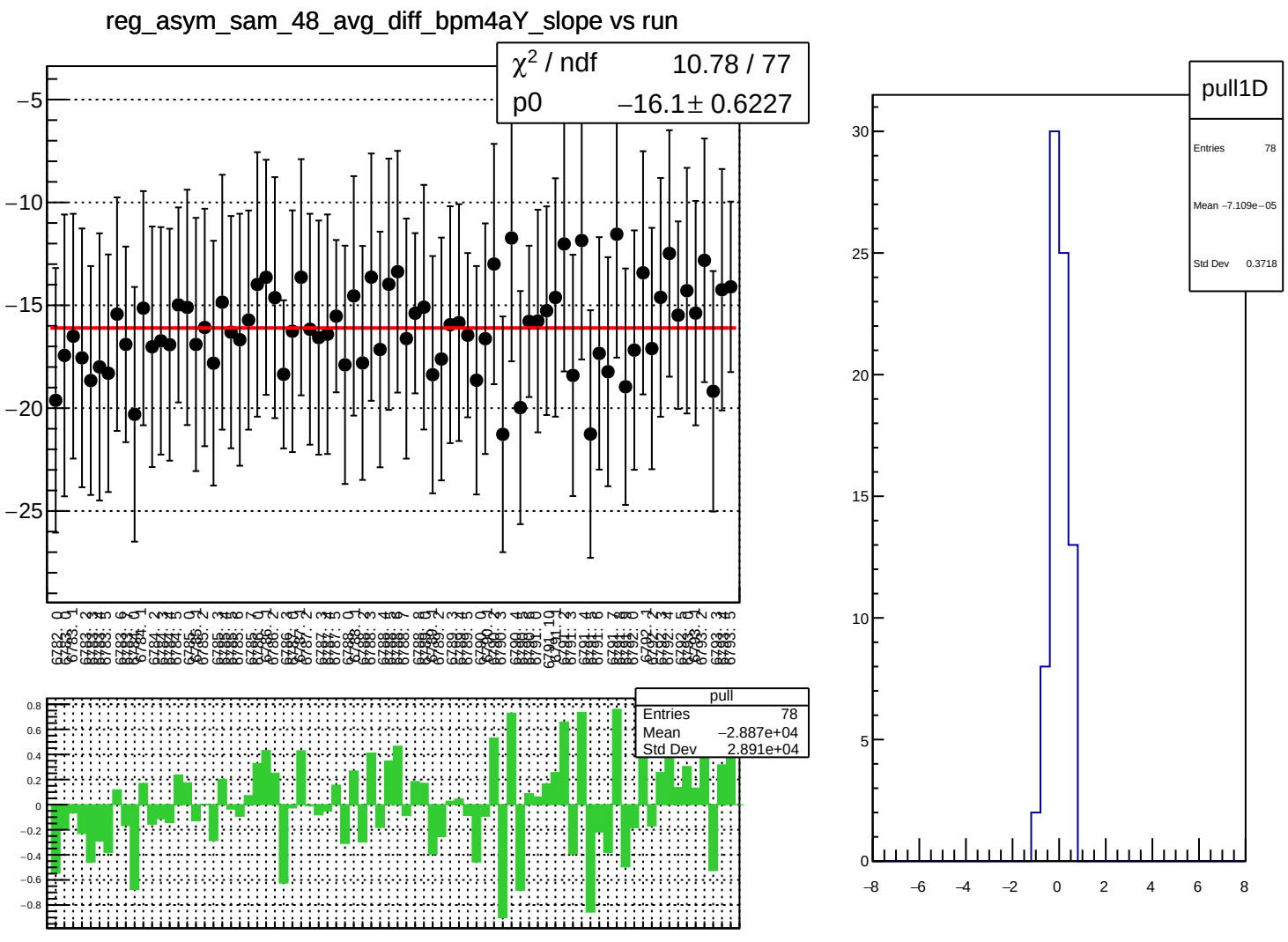

pull1D
Entries 78
Mean 0.0003357
Std Dev 0.2056

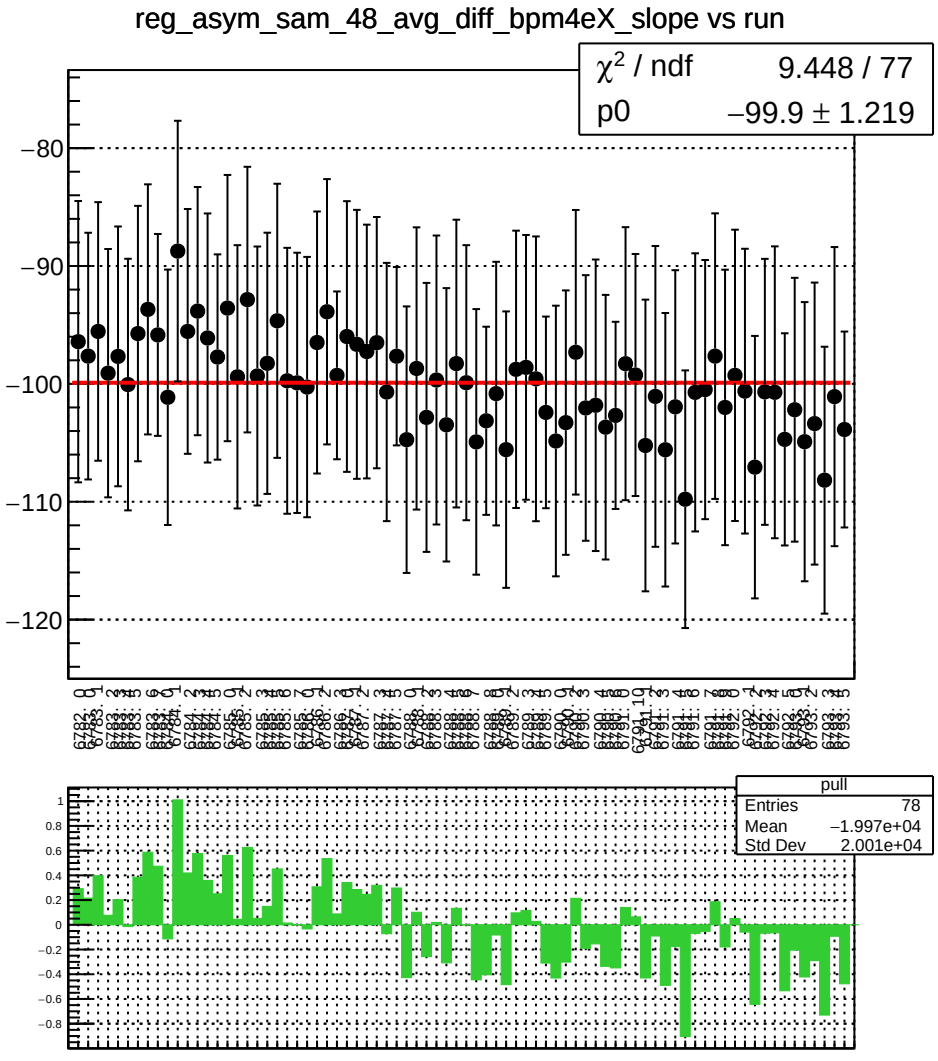

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.22 / 77
p0 −100 ± 1.395
pull
Entries 78
Mean 621.2
Std Dev 580.3

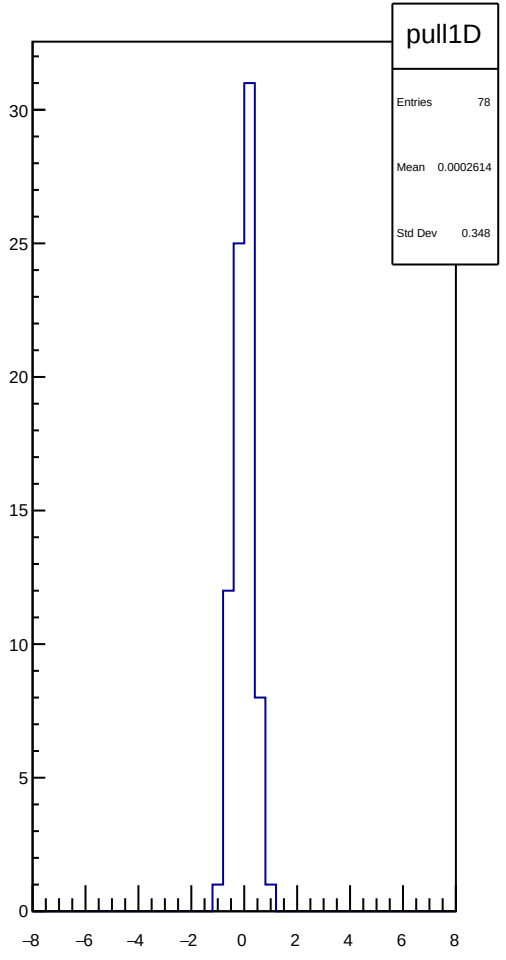

pull1D
Entries 78
Mean 0.006312
Std Dev 0.3619

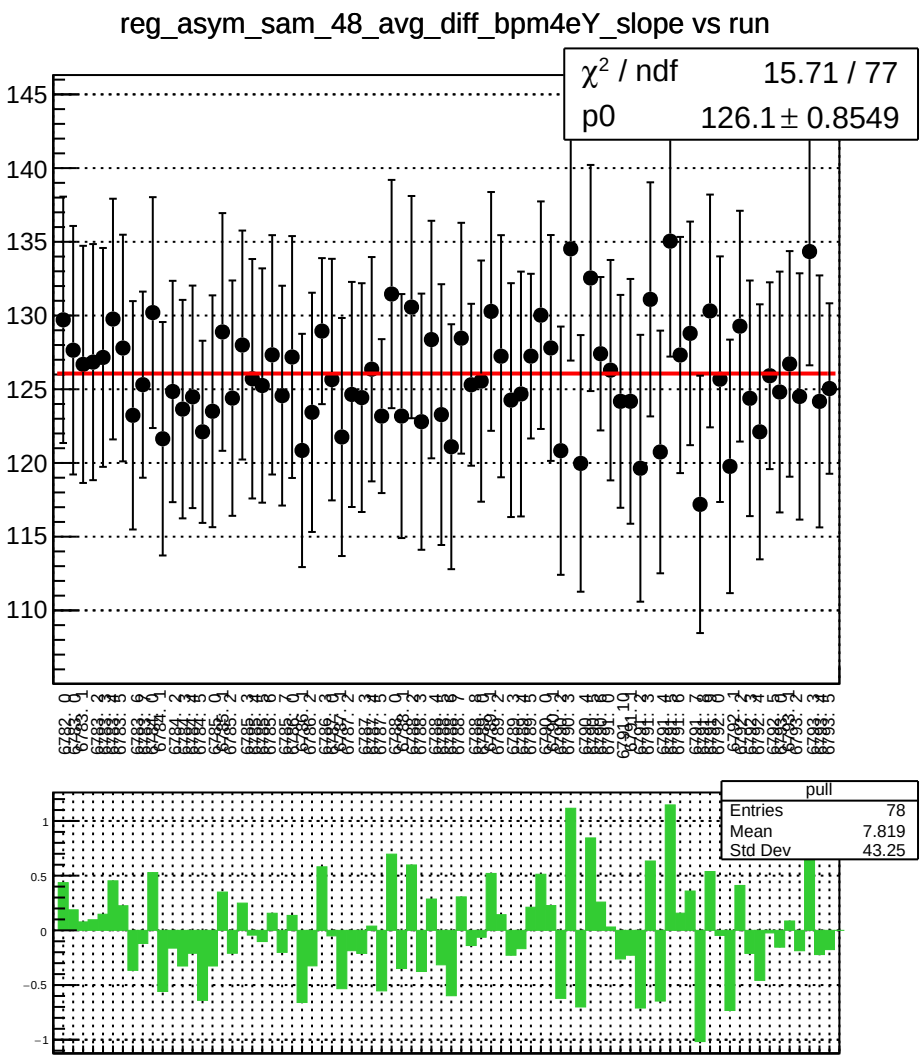

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 8.484 / 77
p0 1.212 ± 0.09335
pull
Entries 78
Mean −135
Std Dev 183.6
pull1D
Entries 78
Mean 0.003143
Std Dev 0.3298

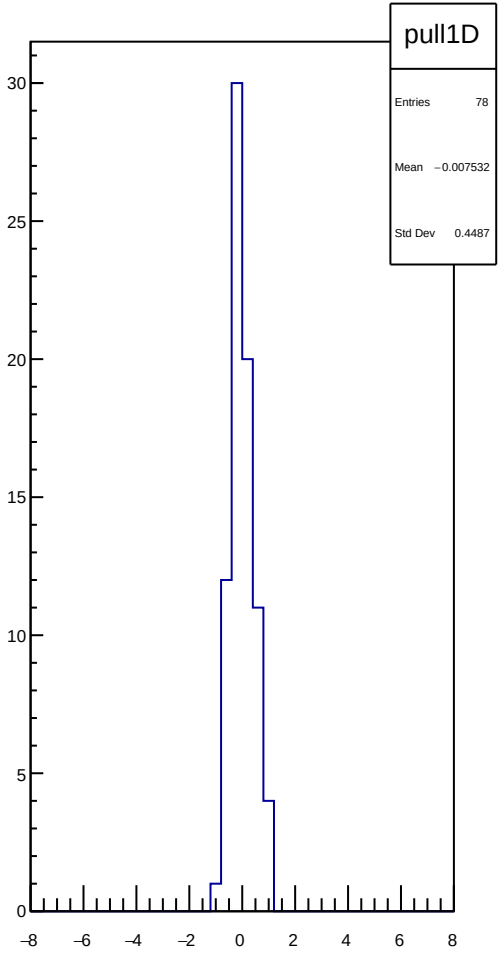

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 5.018 / 77
p0 −4.007 ± 1.305
pull
Entries 78
Mean −1902
Std Dev 1940
pull1D
Entries 78
Mean −0.001855
Std Dev 0.2536

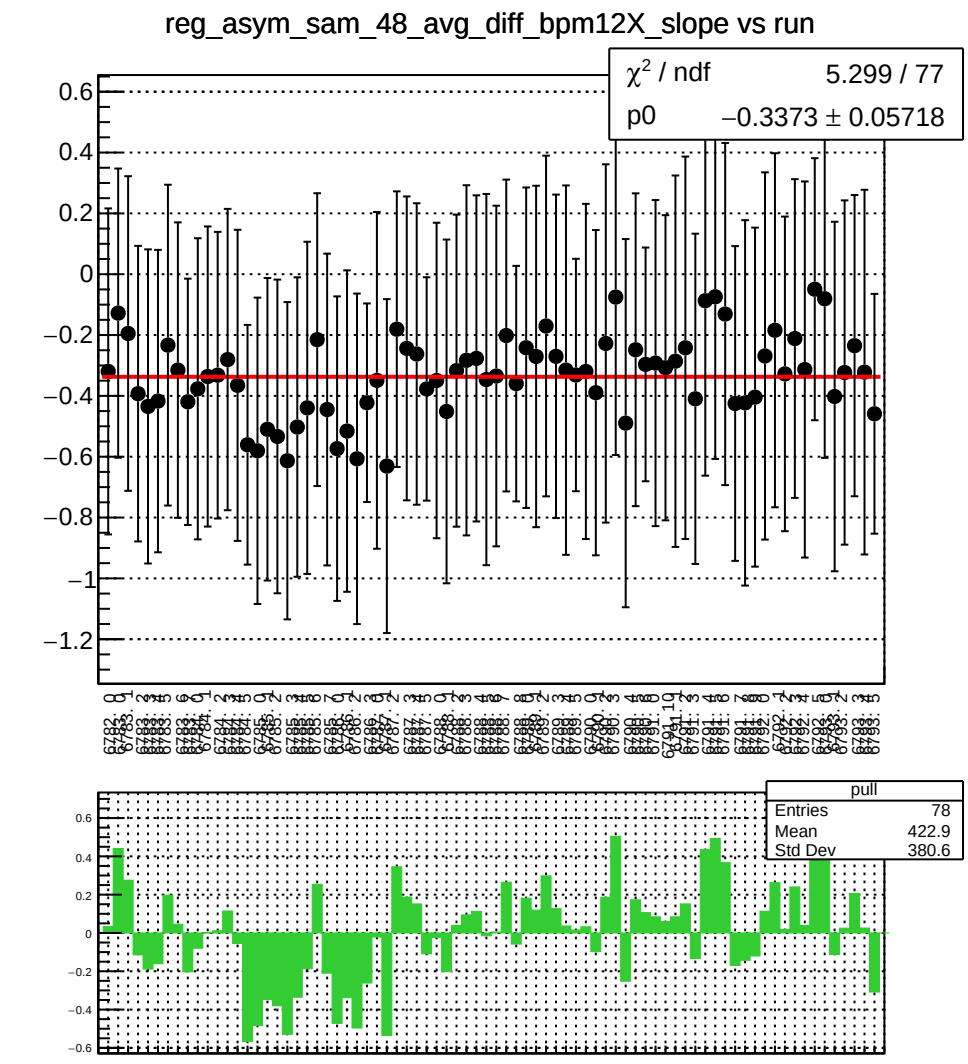

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.78 / 77
p0 −16.1 ± 0.6227
pull
Entries 78
Mean −2.887e+04
Std Dev 2.891e+04
pull1D
Entries 78
Mean −7.109e−05
Std Dev 0.3718

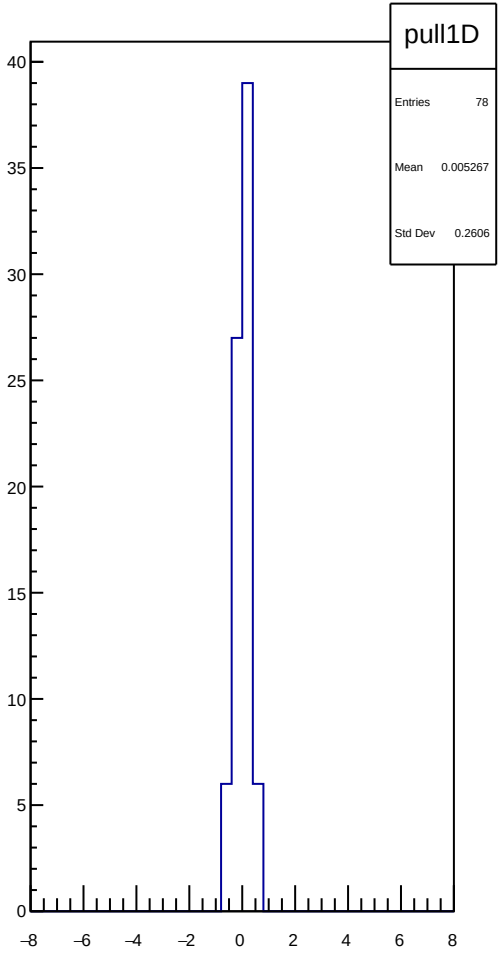

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.448 / 77
p0 −99.9 ± 1.219
−80
−90
−100
−110
−120
pull
Entries 78
Mean −1.997e+04
Std Dev 2.001e+04
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

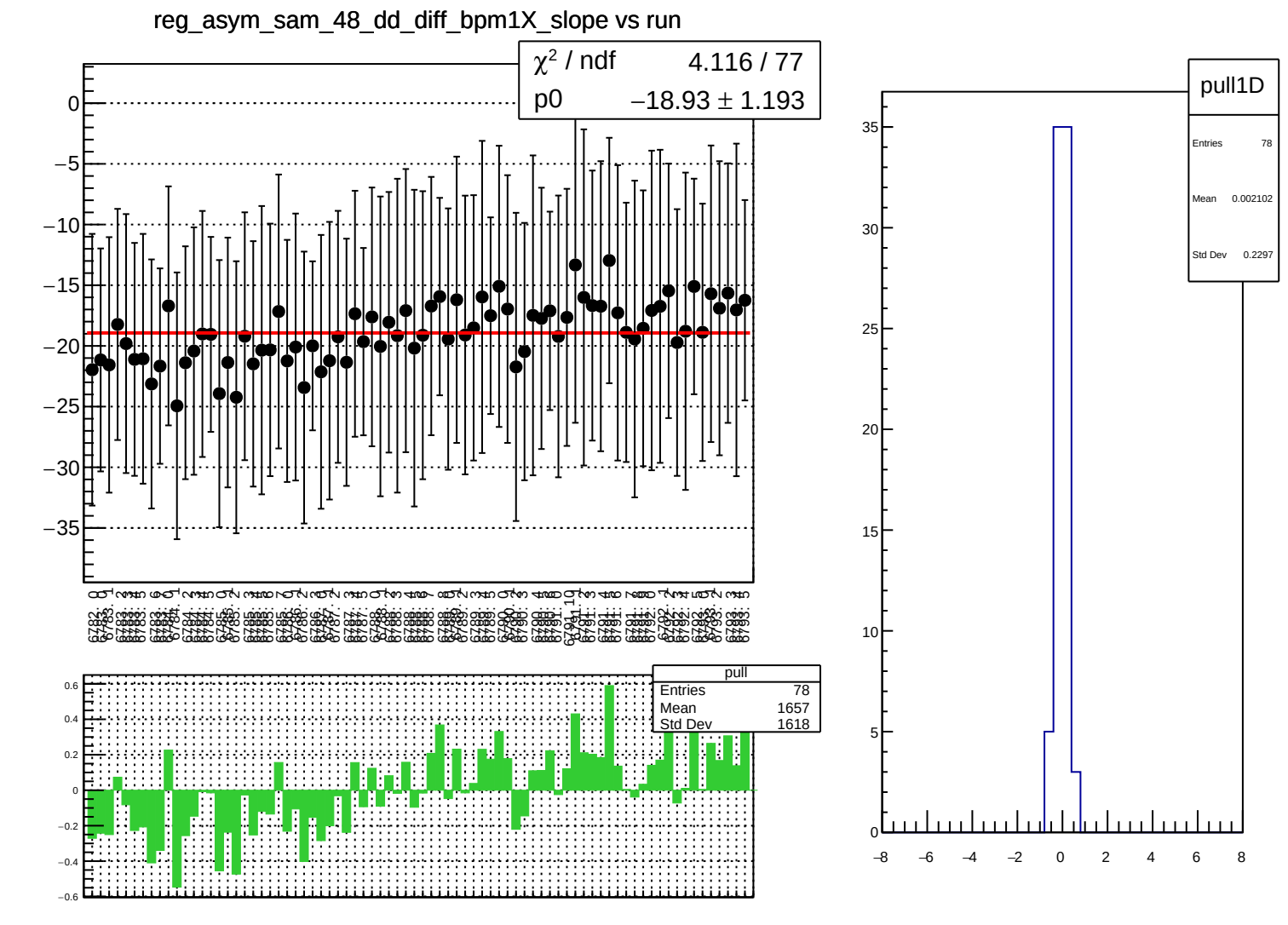

pull1D
Entries 78
Mean 0.0002614
Std Dev 0.348
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

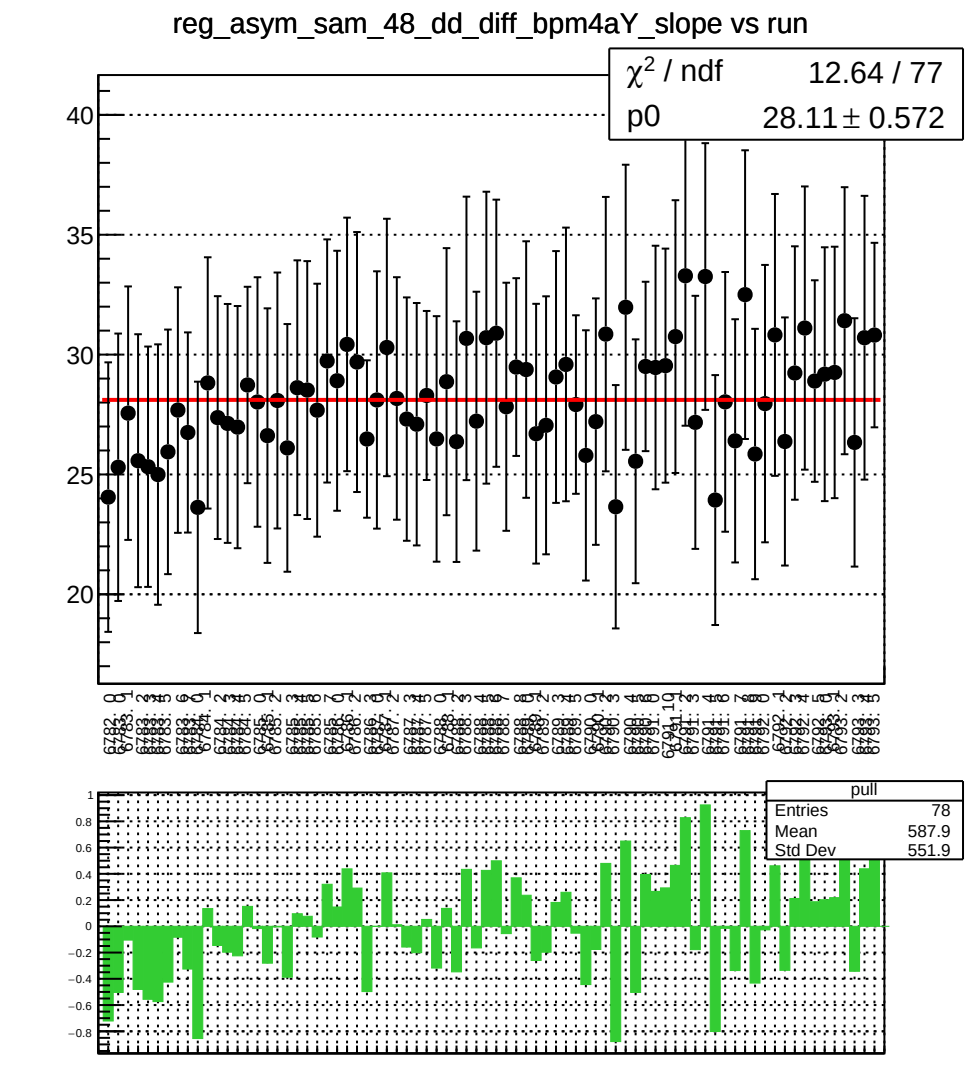

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.71 / 77
p0 126.1 ± 0.8549
pull
Entries 78
Mean 7.819
Std Dev 43.25

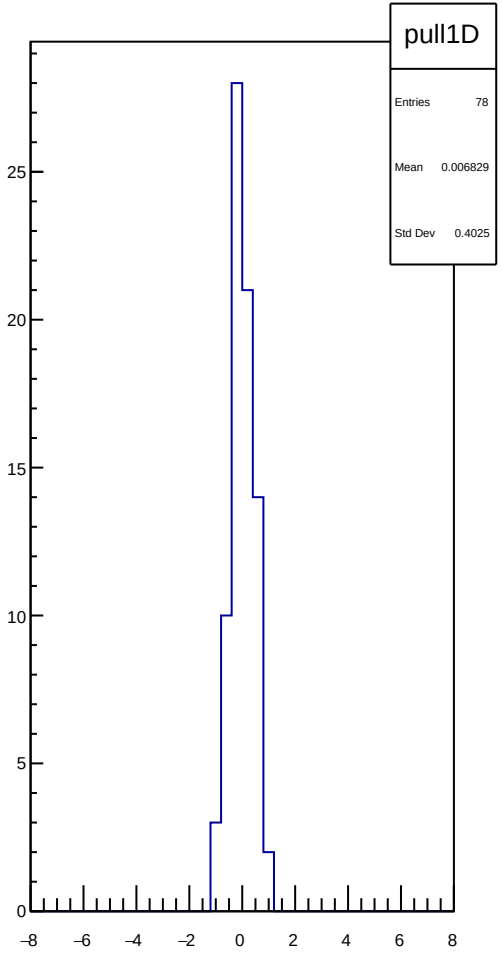

pull1D
Entries 78
Mean −0.007532
Std Dev 0.4487

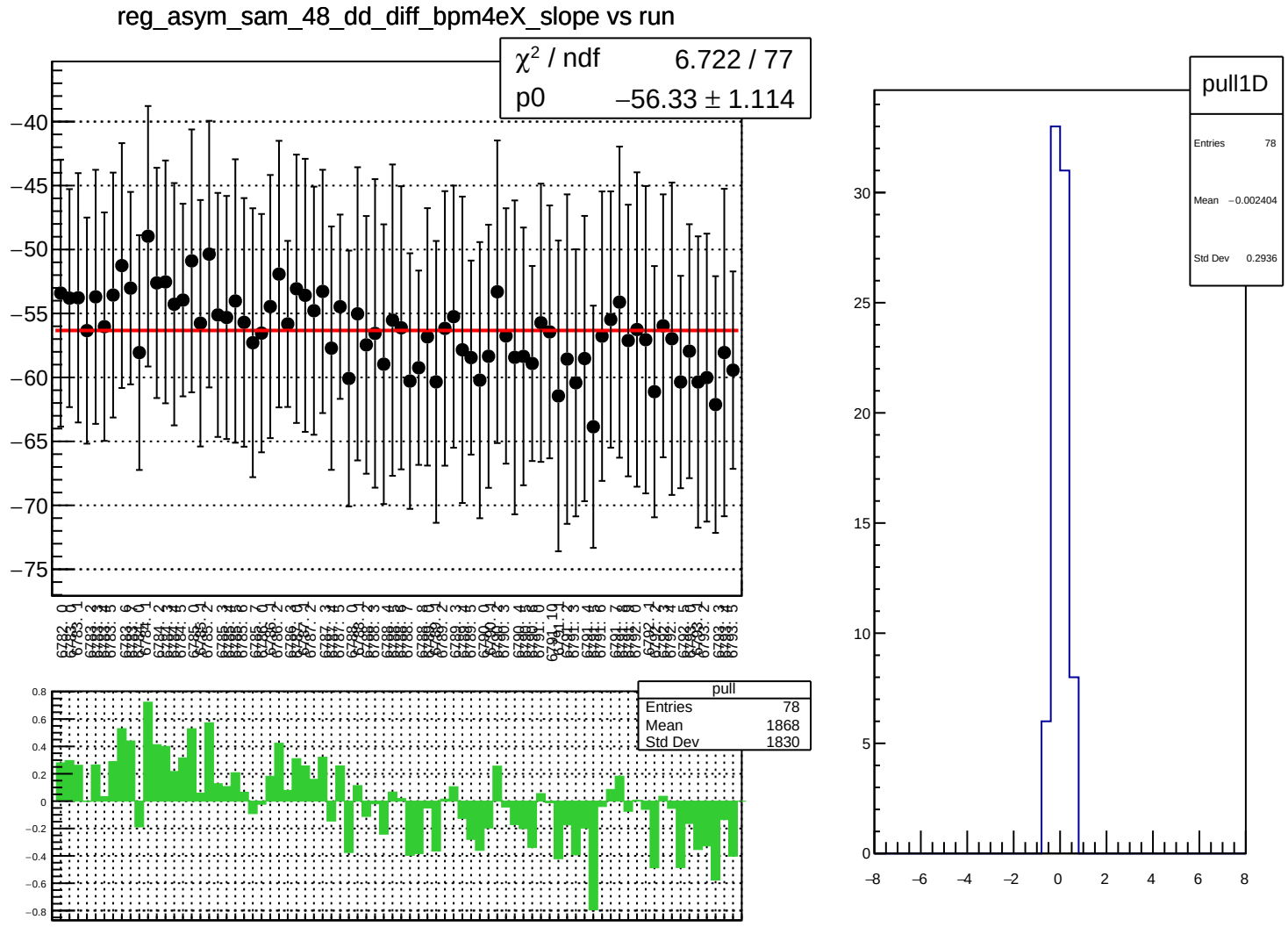

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 5.299 / 77
p0 −0.3373 ± 0.05718
pull
Entries 78
Mean 422.9
Std Dev 380.6

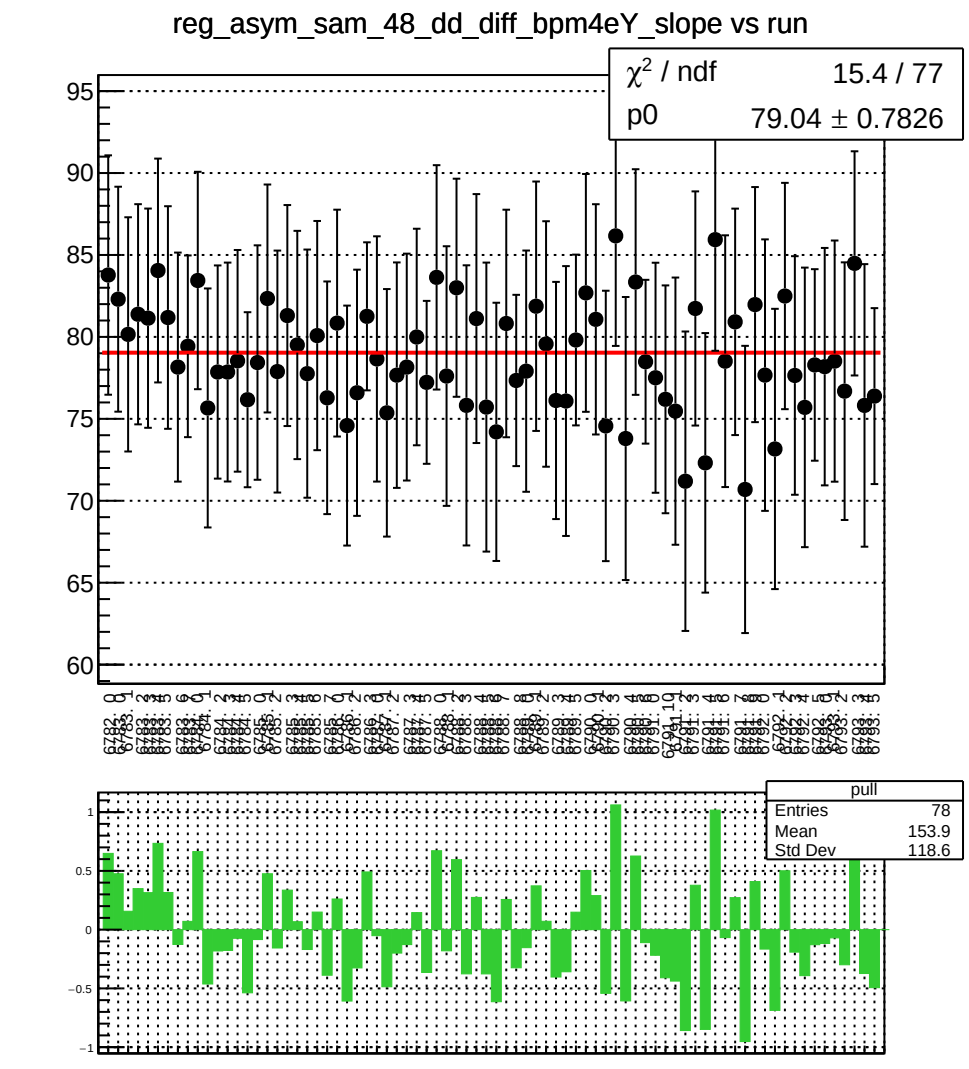

pull1D
Entries 78
Mean 0.005267
Std Dev 0.2606

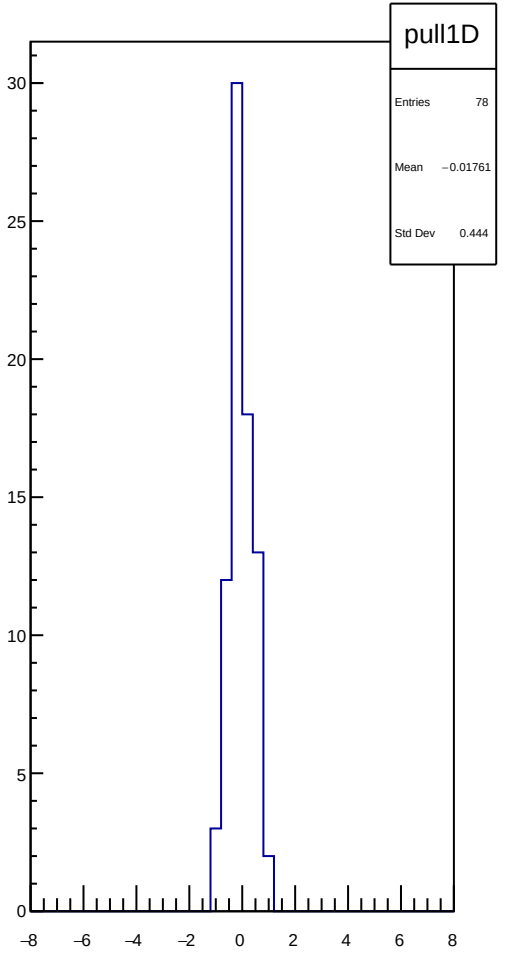

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.116 / 77
p0 −18.93 ± 1.193
pull
Entries 78
Mean 1657
Std Dev 1618
pull1D
Entries 78
Mean 0.002102
Std Dev 0.2297

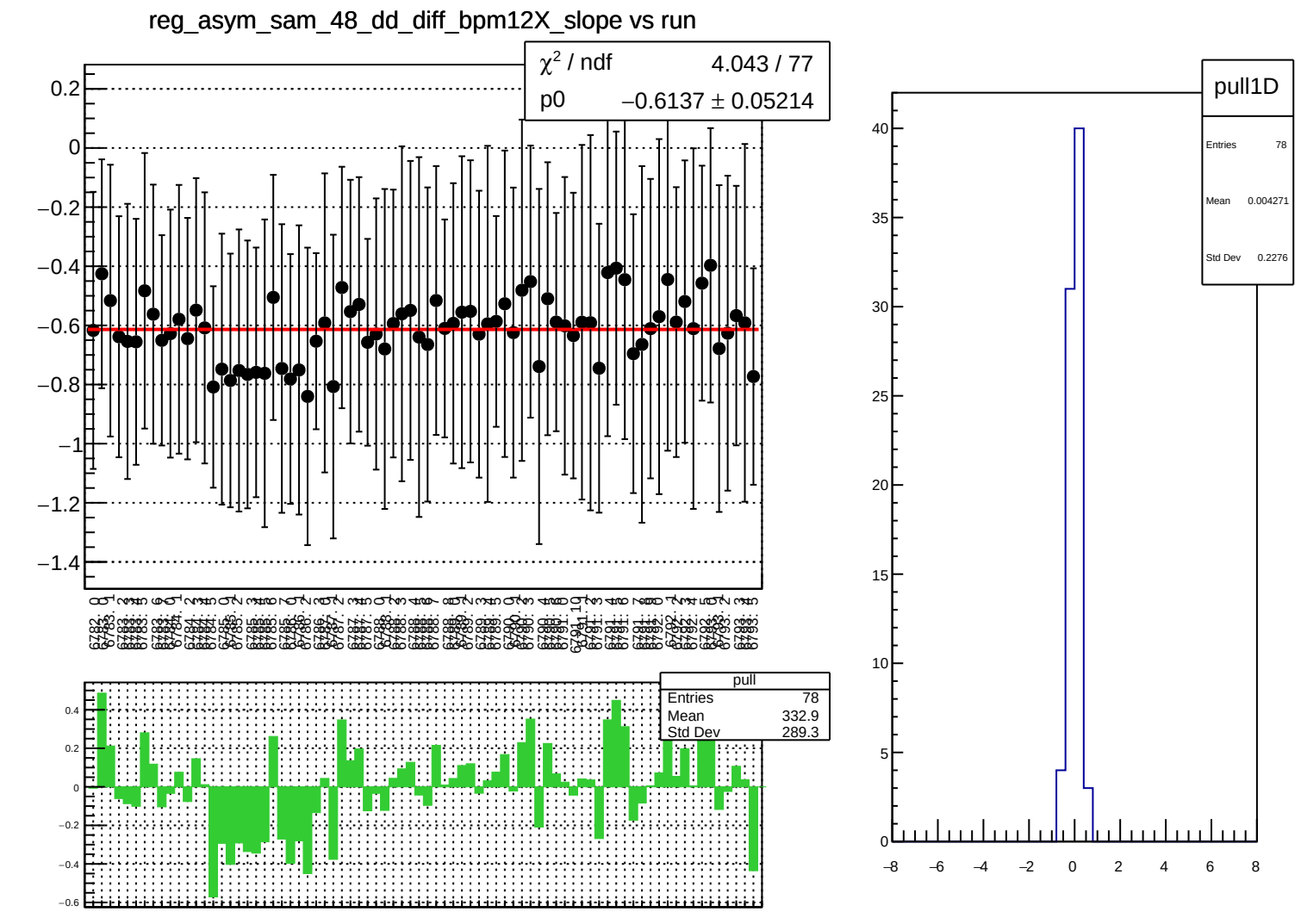

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.64 / 77
p0 28.11 ± 0.572
pull
Entries 78
Mean 587.9
Std Dev 551.9

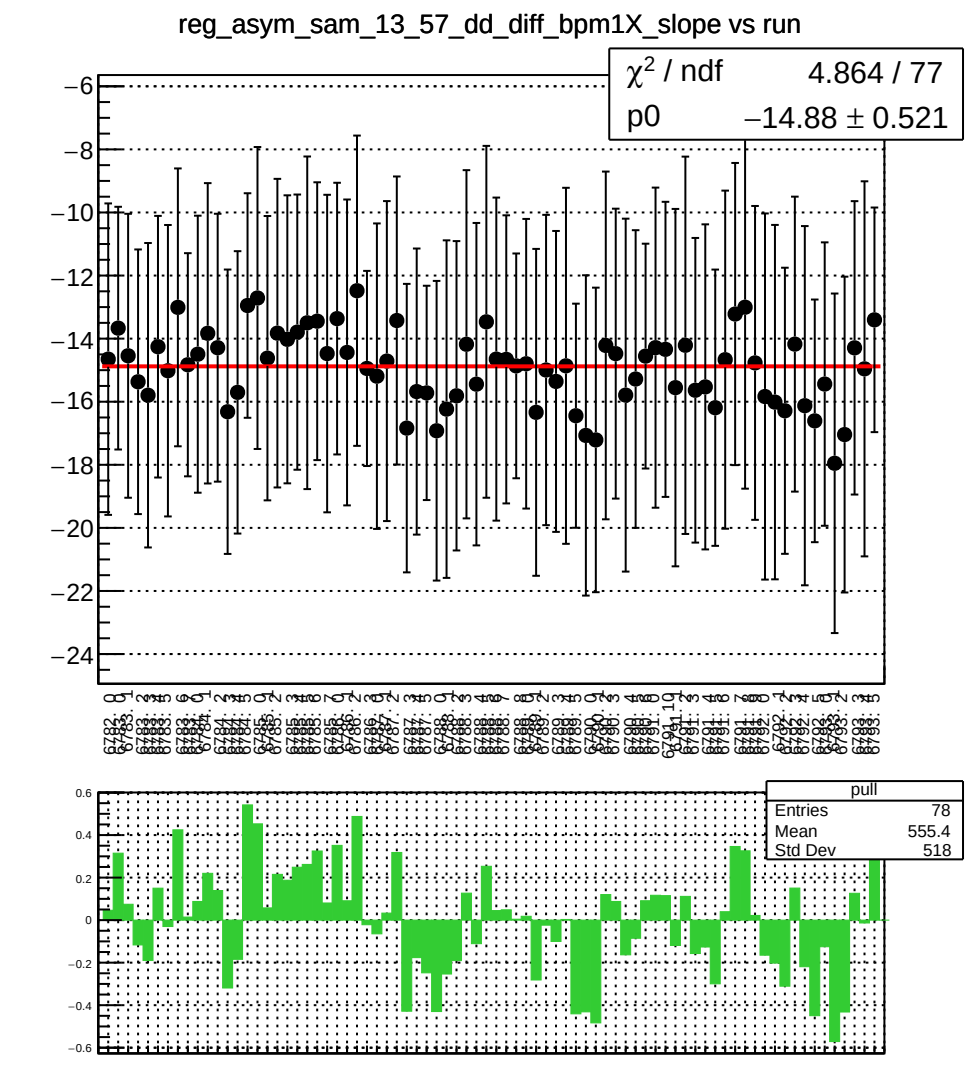

pull1D
Entries 78
Mean 0.006829
Std Dev 0.4025

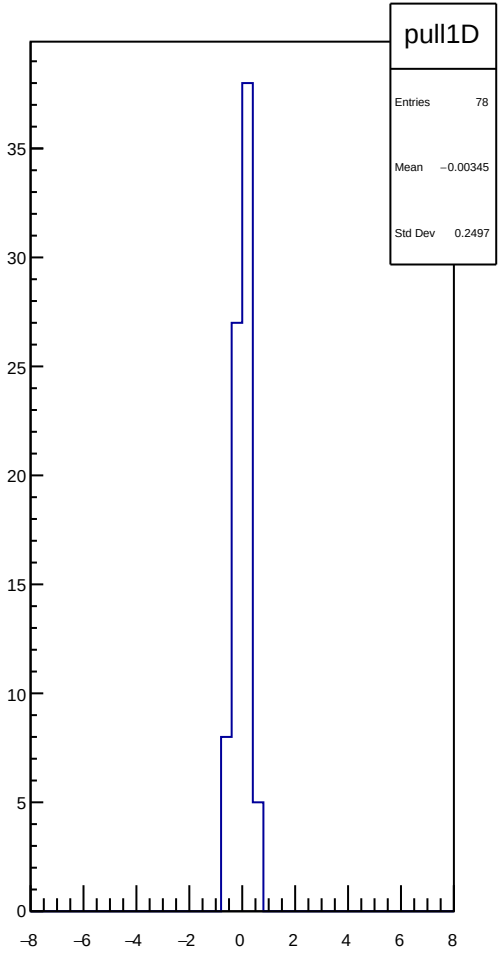

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.722 / 77
p0 −56.33 ± 1.114
pull
Entries 78
Mean 1868
Std Dev 1830
pull1D
Entries 78
Mean −0.002404
Std Dev 0.2936

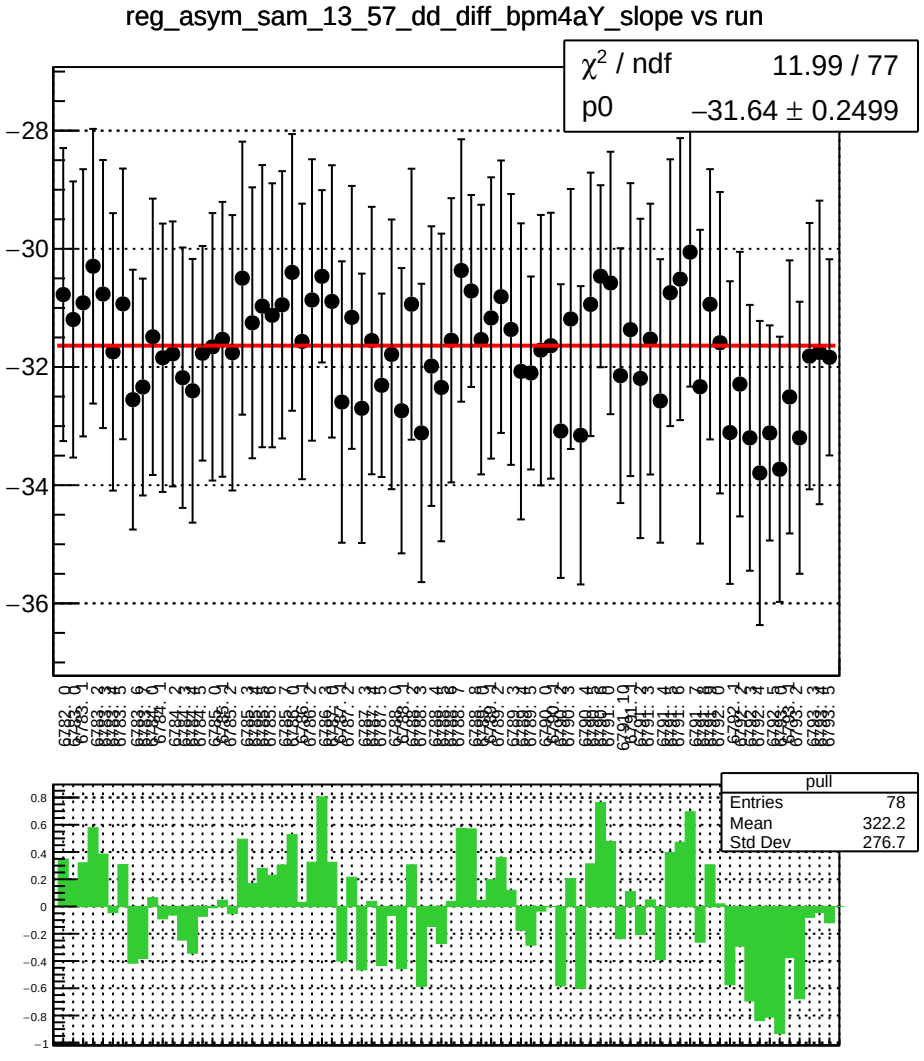

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.4 / 77
p0 79.04 ± 0.7826
pull
Entries 78
Mean 153.9
Std Dev 118.6

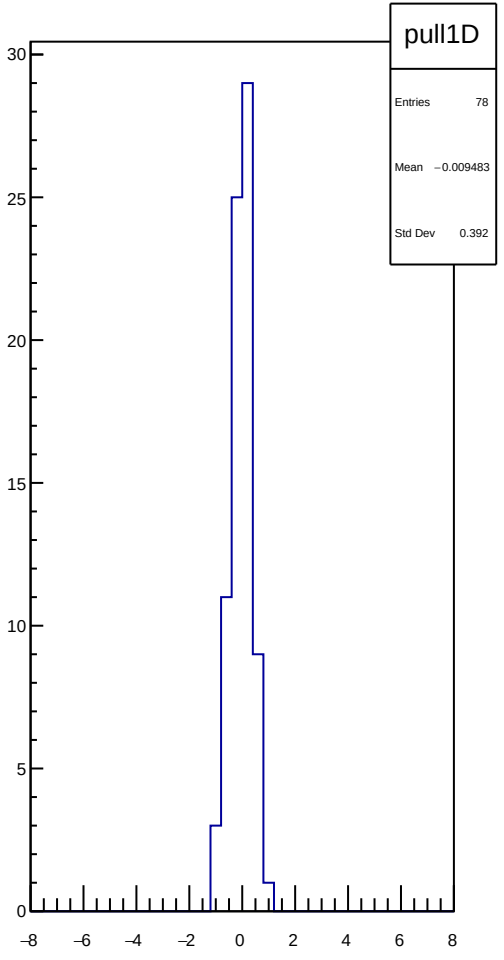

pull1D
Entries 78
Mean −0.01761
Std Dev 0.444

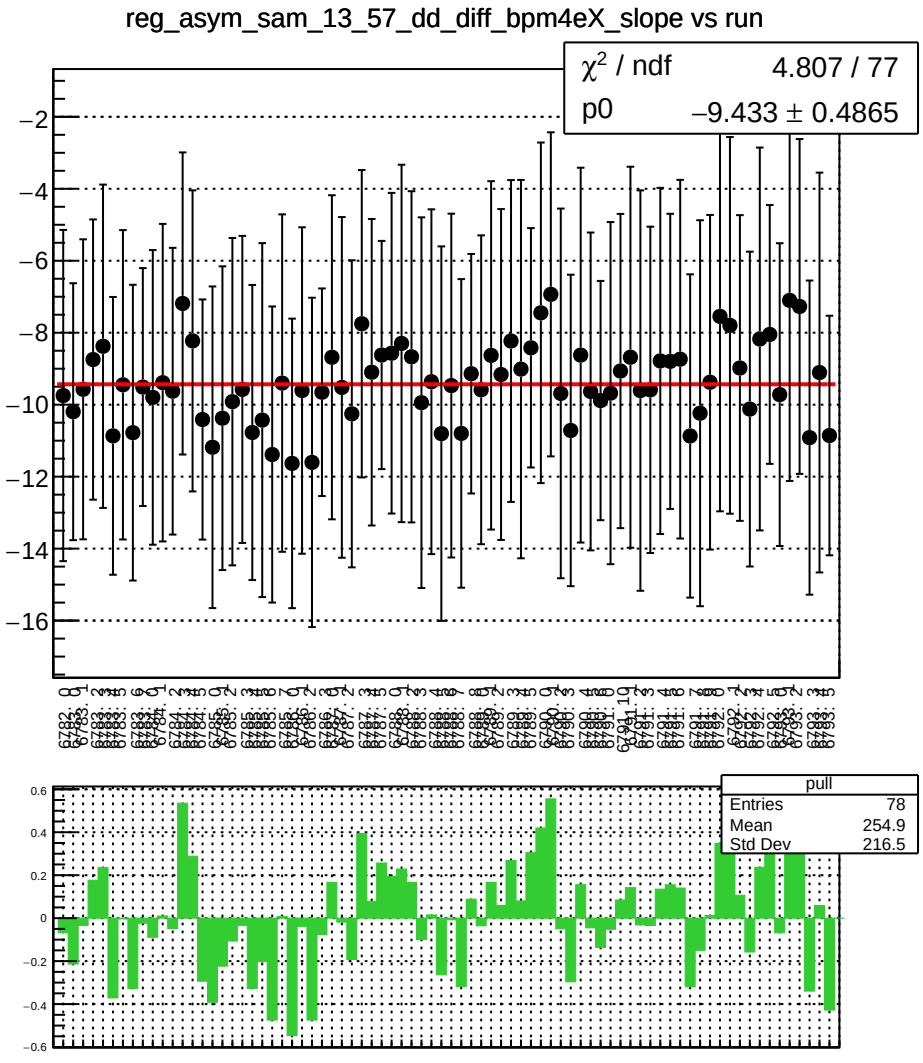

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.043 / 77
p0 −0.6137 ± 0.05214
pull
Entries 78
Mean 332.9
Std Dev 289.3
pull1D
Entries 78
Mean 0.004271
Std Dev 0.2276

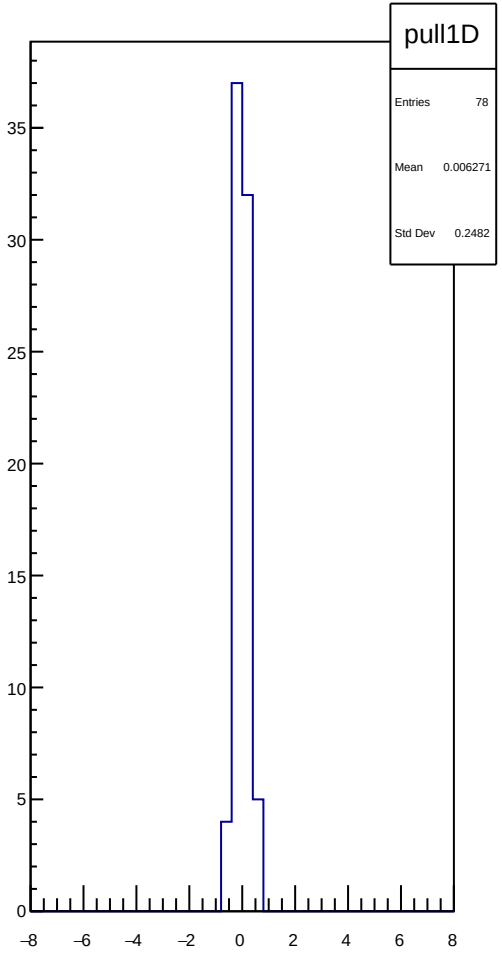

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 4.864 / 77
p0 −14.88 ± 0.521
pull
Entries 78
Mean 555.4
Std Dev 518

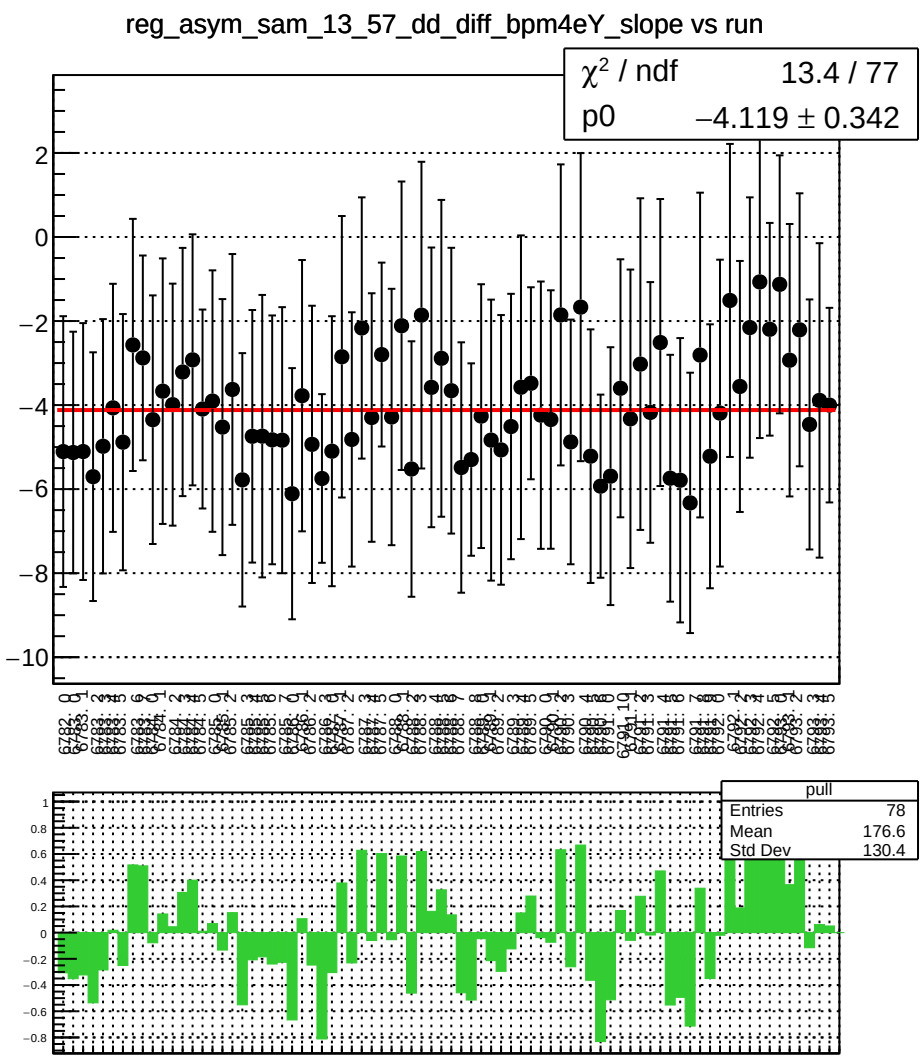

pull1D
Entries 78
Mean −0.00345
Std Dev 0.2497

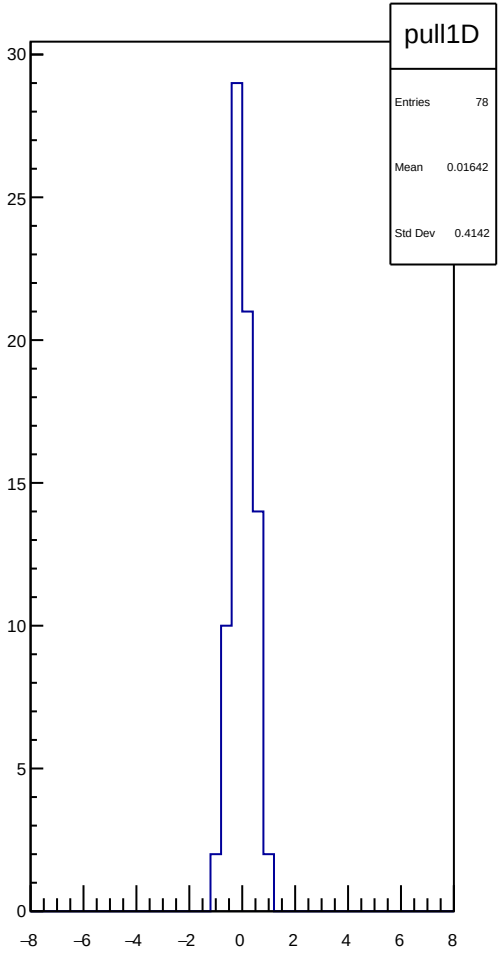

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.99 / 77
p0 −31.64 ± 0.2499
pull
Entries 78
Mean 322.2
Std Dev 276.7

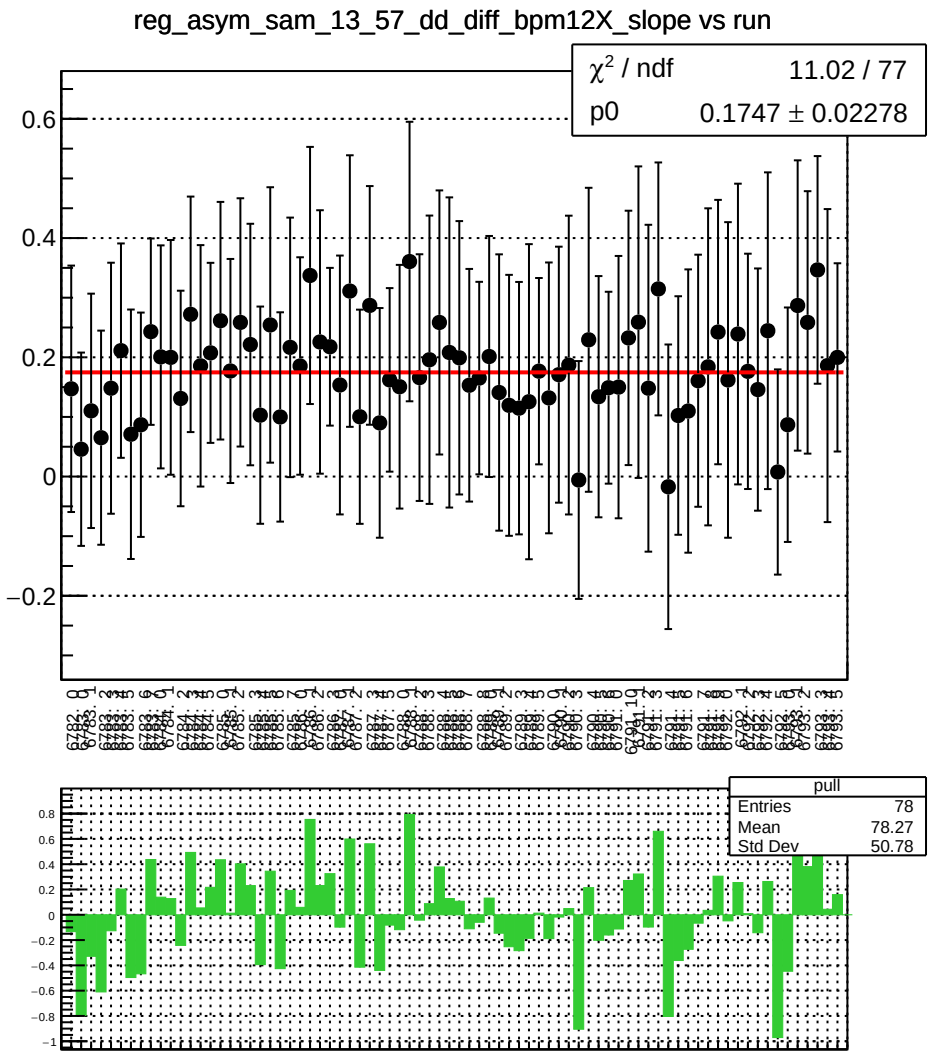

pull1D
Entries 78
Mean −0.009483
Std Dev 0.392

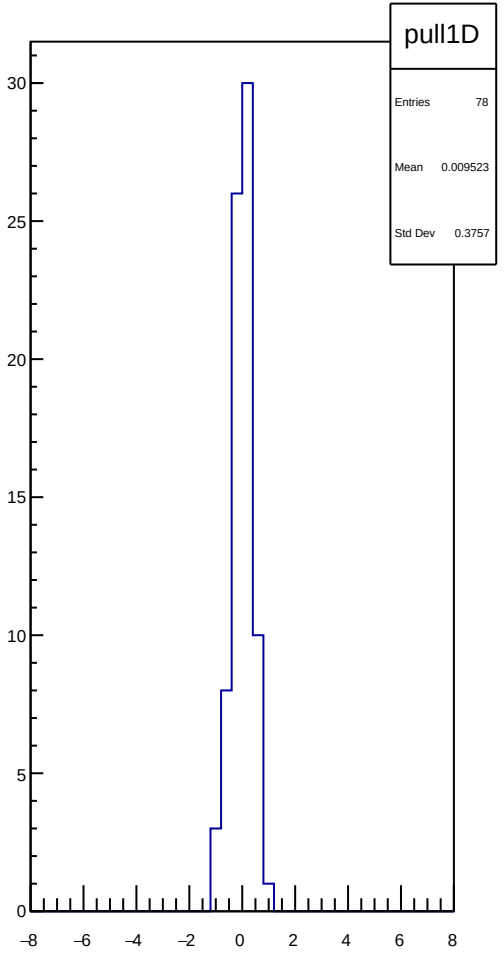

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.807 / 77
p0 −9.433 ± 0.4865
pull
Entries 78
Mean 254.9
Std Dev 216.5

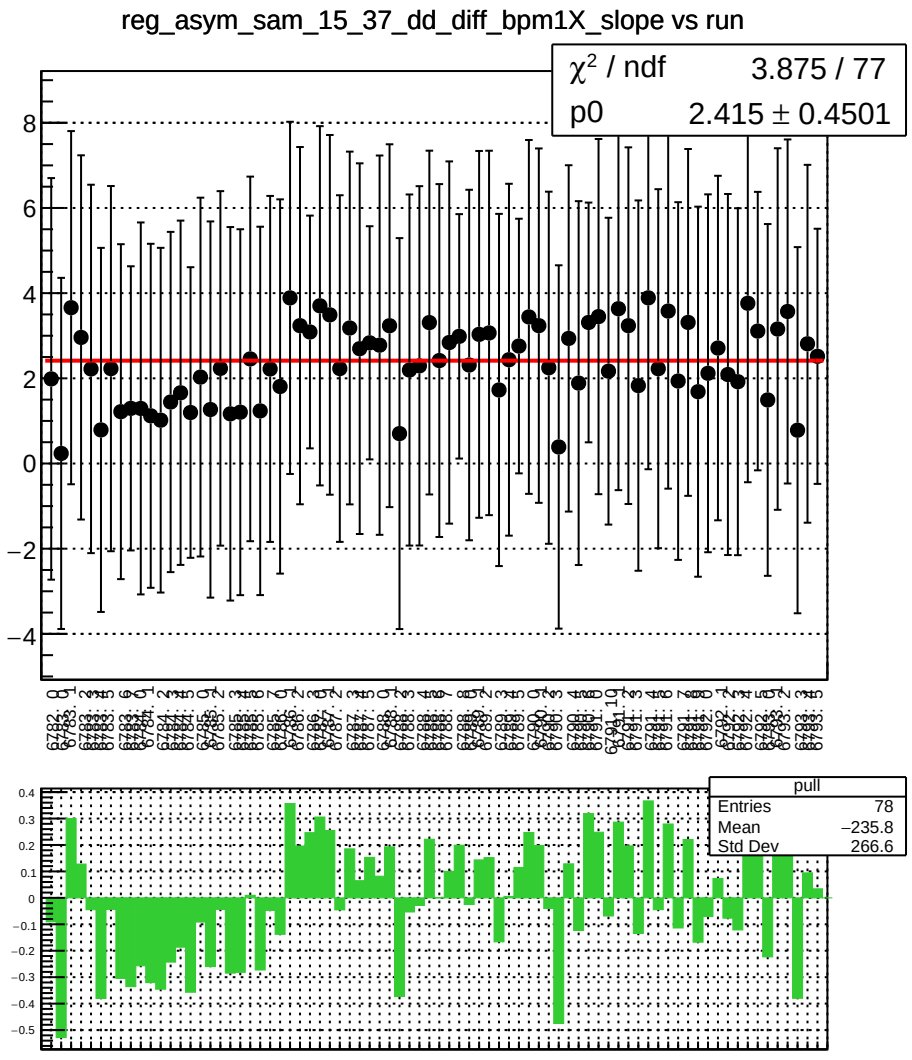

pull1D
Entries 78
Mean 0.006271
Std Dev 0.2482

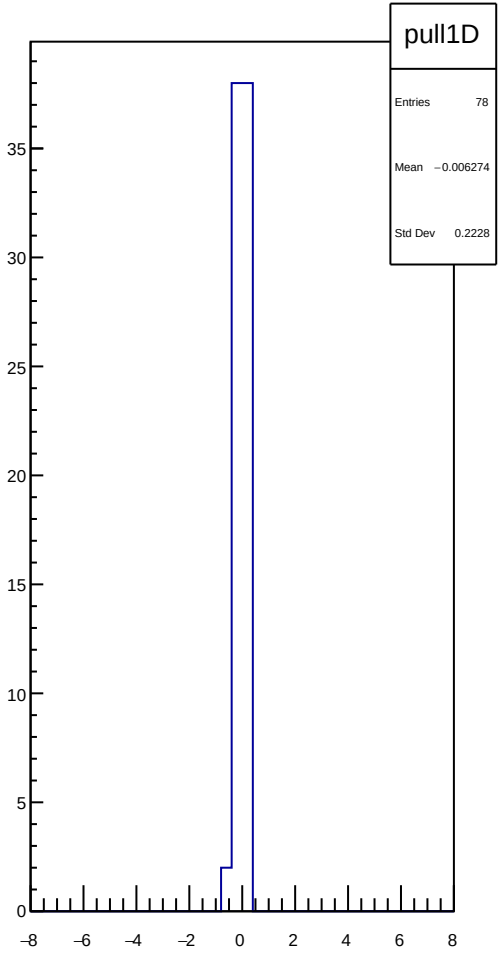

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.4 / 77
p0 −4.119 ± 0.342
pull
Entries 78
Mean 176.6
Std Dev 130.4

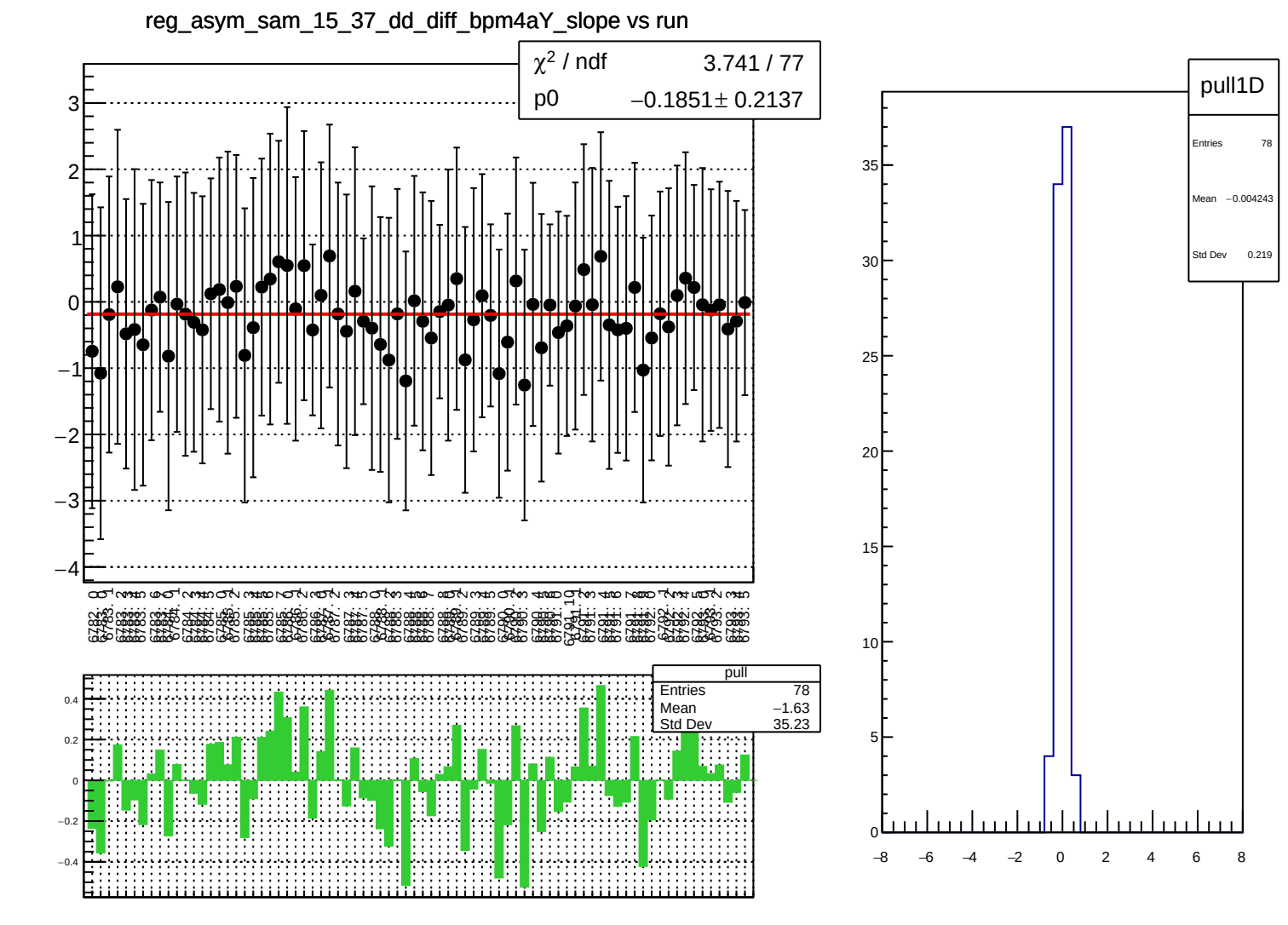

pull1D
Entries 78
Mean 0.01642
Std Dev 0.4142

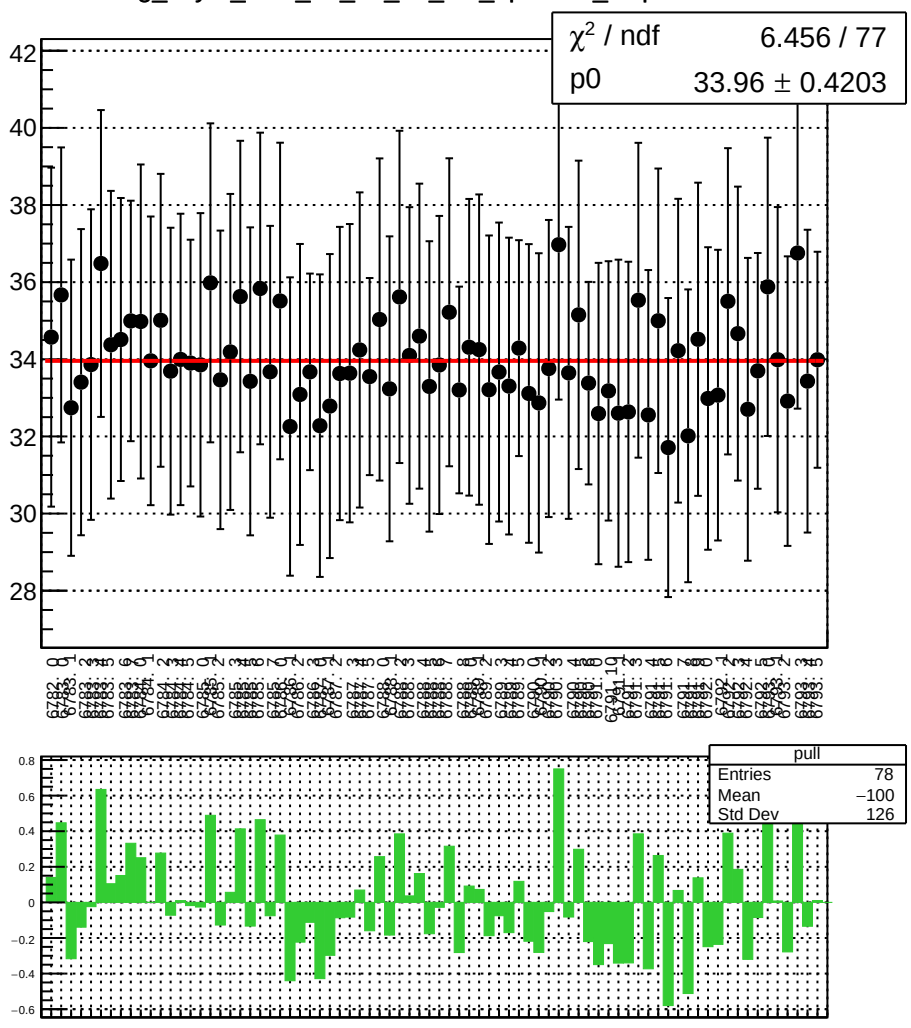

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 11.02 / 77
p0 0.1747 ± 0.02278
pull
Entries 78
Mean 78.27
Std Dev 50.78

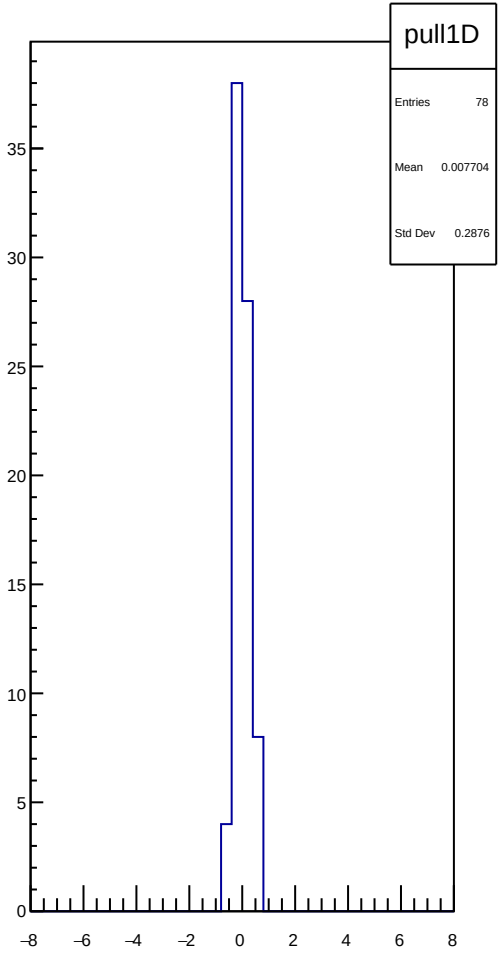

pull1D
Entries 78
Mean 0.009523
Std Dev 0.3757

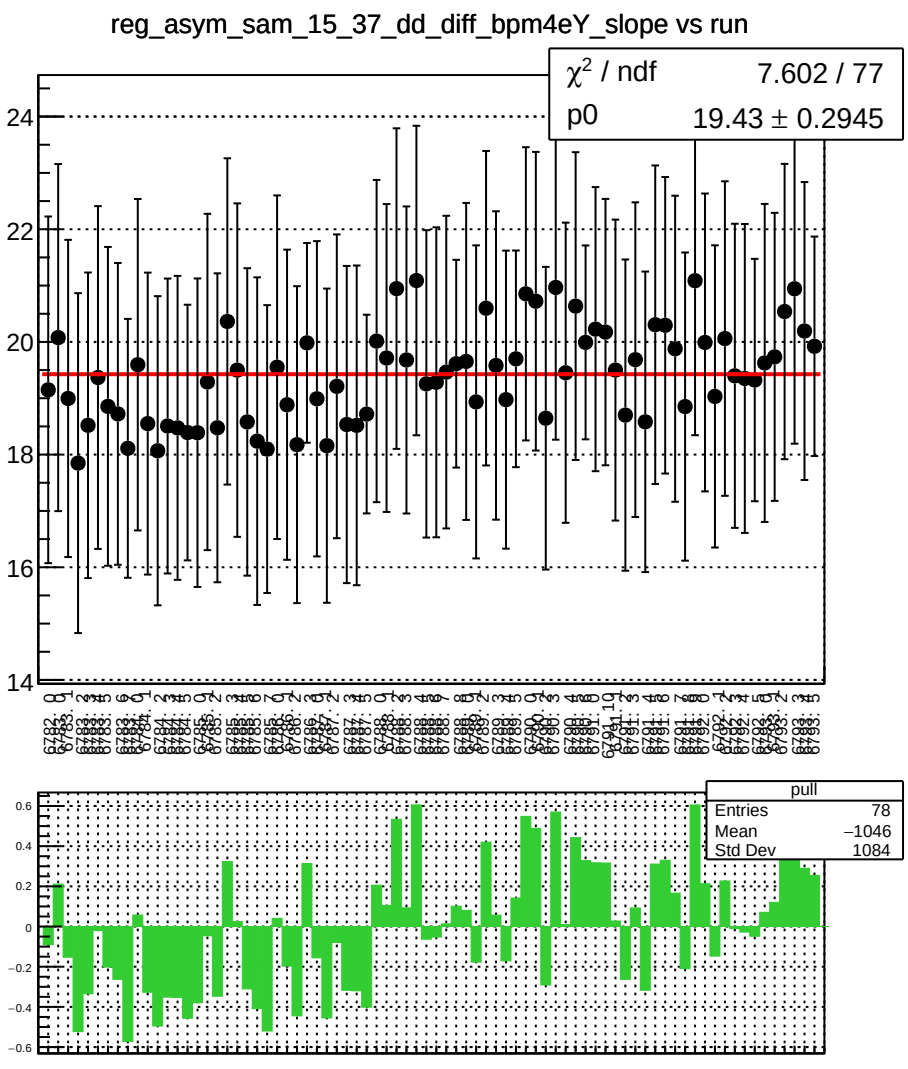

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 3.875 / 77
p0 2.415 ± 0.4501
pull
Entries 78
Mean −235.8
Std Dev 266.6

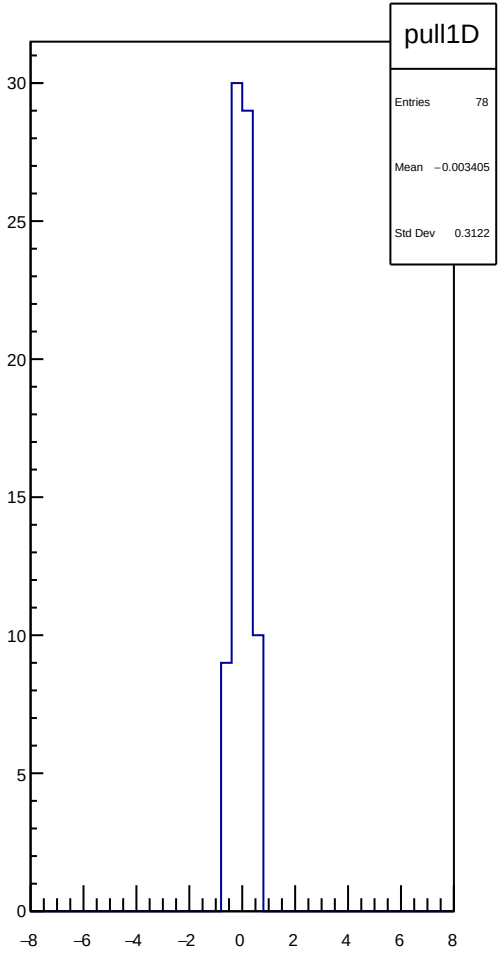

pull1D
Entries 78
Mean −0.006274
Std Dev 0.2228

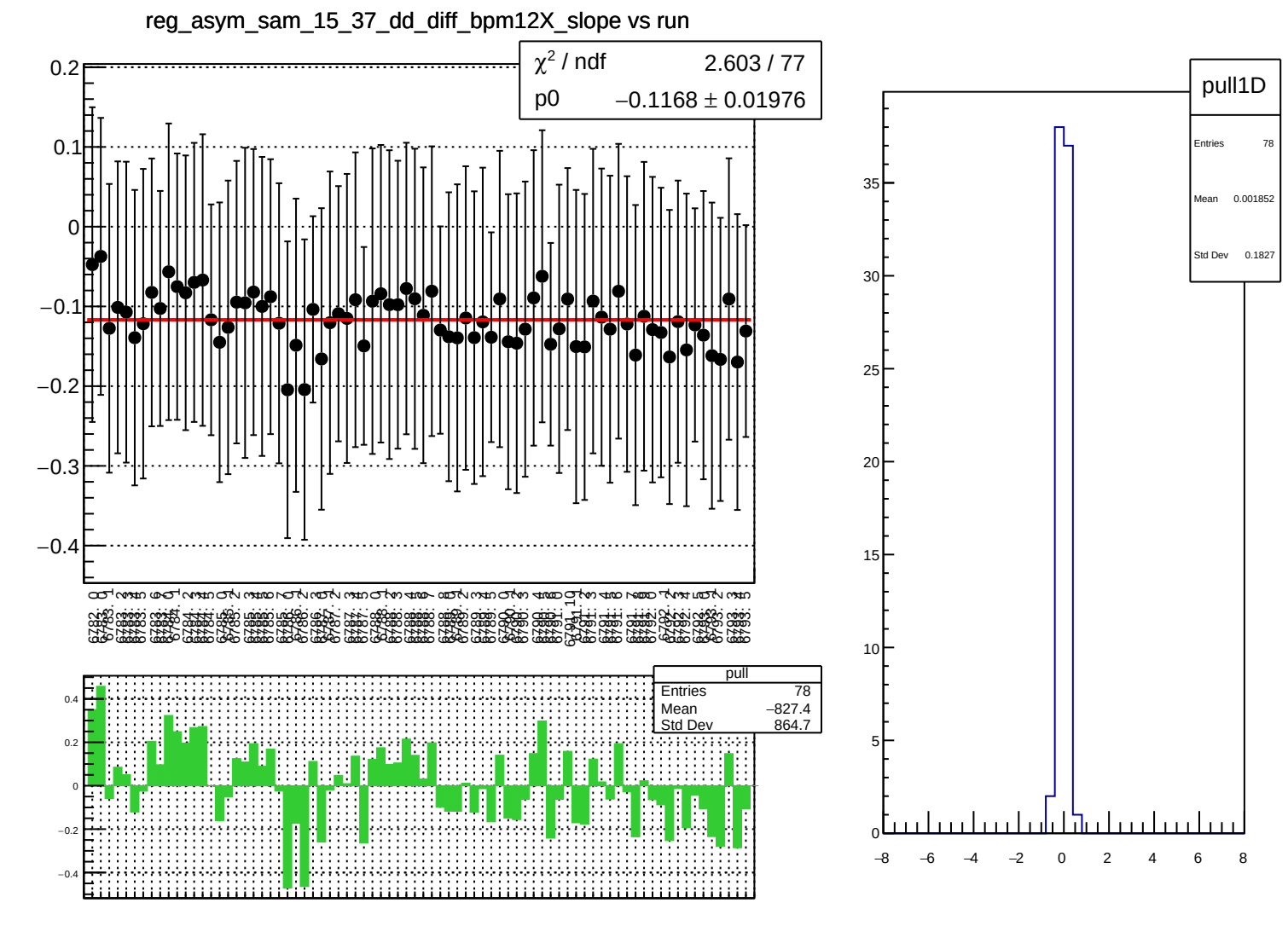

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.741 / 77
p0 −0.1851± 0.2137
pull
Entries 78
Mean −1.63
Std Dev 35.23
pull1D
Entries 78
Mean −0.004243
Std Dev 0.219

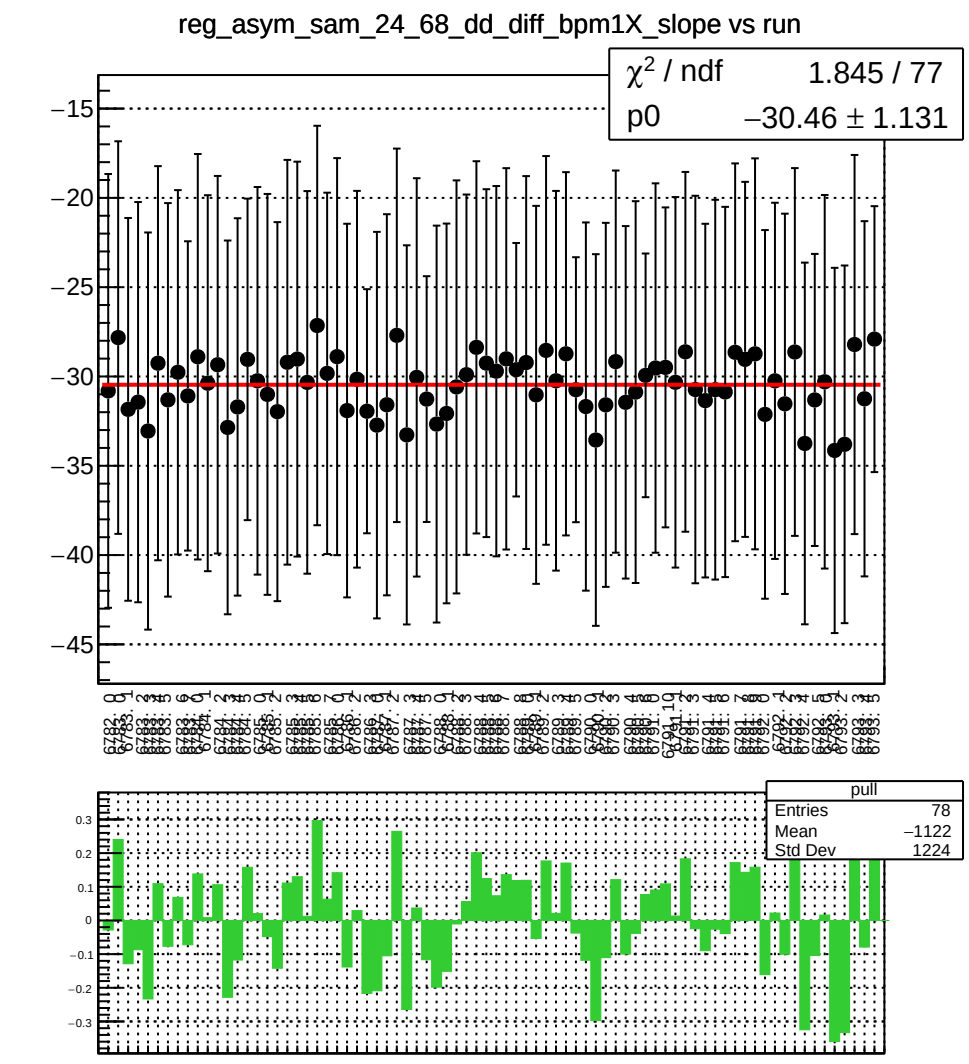

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.456 / 77
p0 33.96 ± 0.4203
pull
Entries 78
Mean −100
Std Dev 126

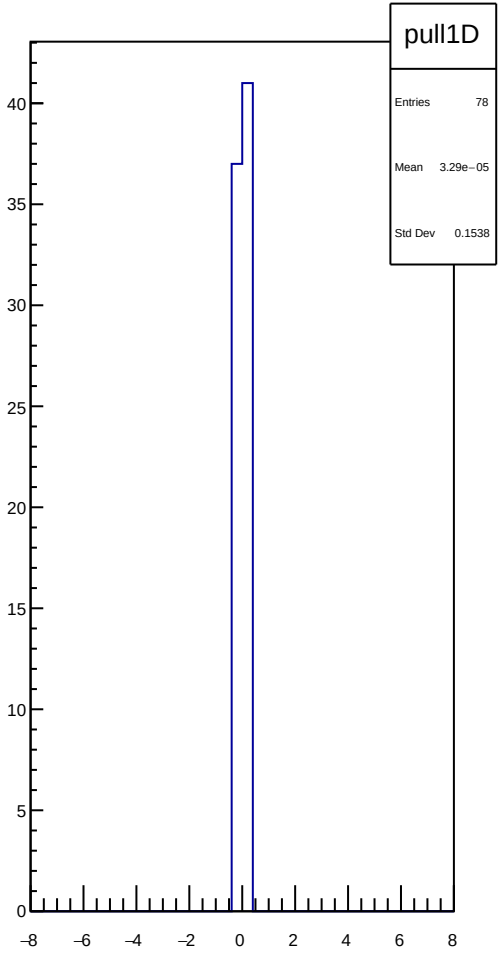

pull1D
Entries 78
Mean 0.007704
Std Dev 0.2876

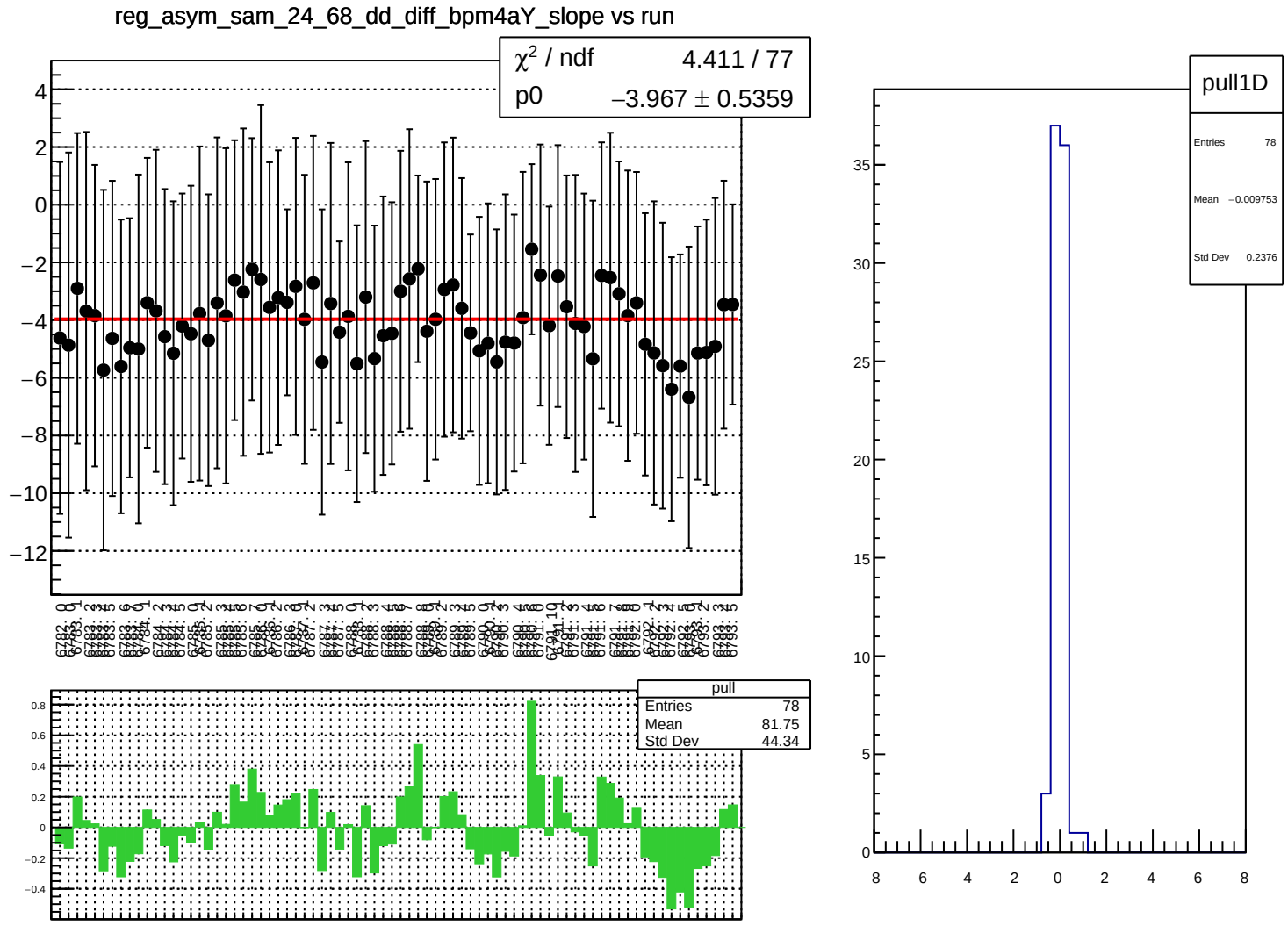

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.602 / 77
p0 19.43 ± 0.2945
pull
Entries 78
Mean −1046
Std Dev 1084

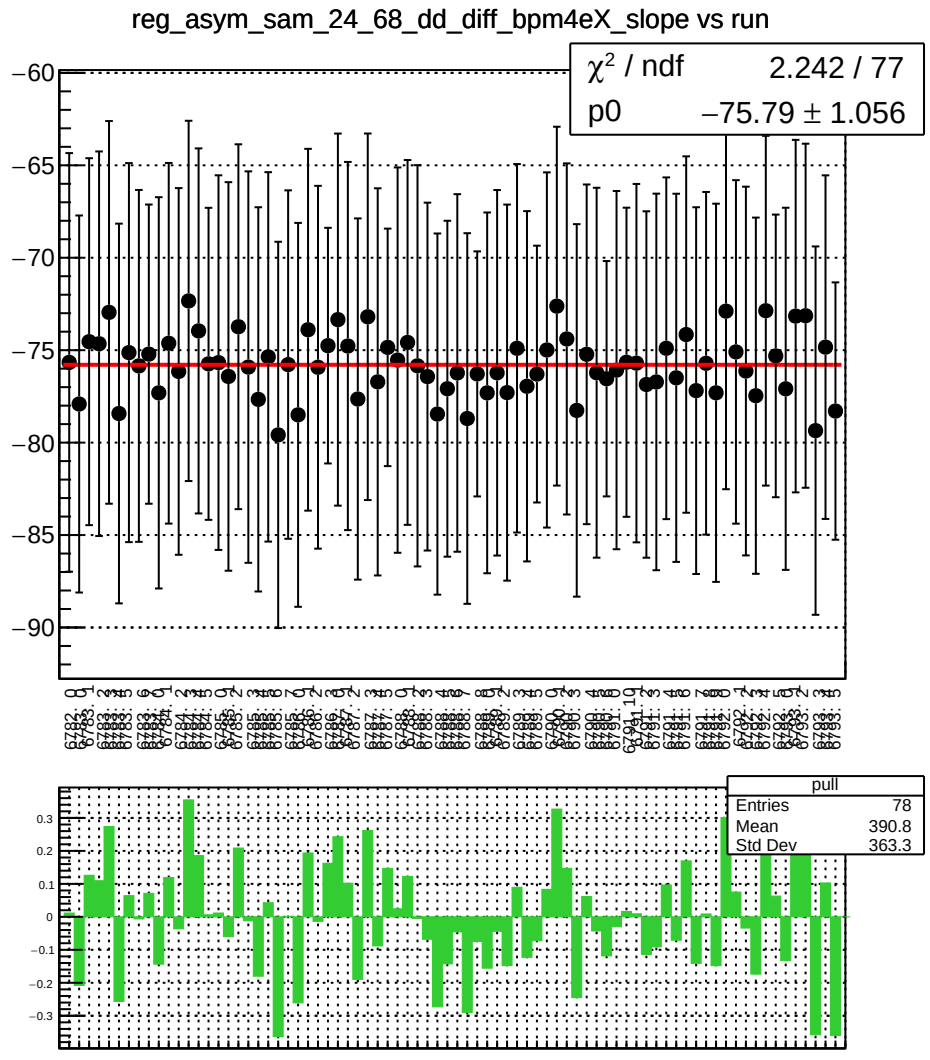

pull1D
Entries 78
Mean −0.003405
Std Dev 0.3122

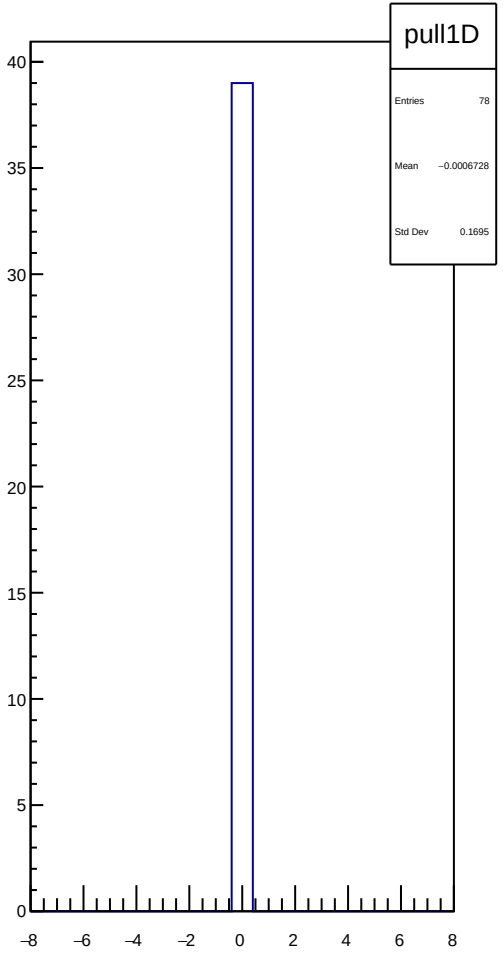

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.603 / 77
p0 −0.1168 ± 0.01976
pull
Entries 78
Mean −827.4
Std Dev 864.7
pull1D
Entries 78
Mean 0.001852
Std Dev 0.1827

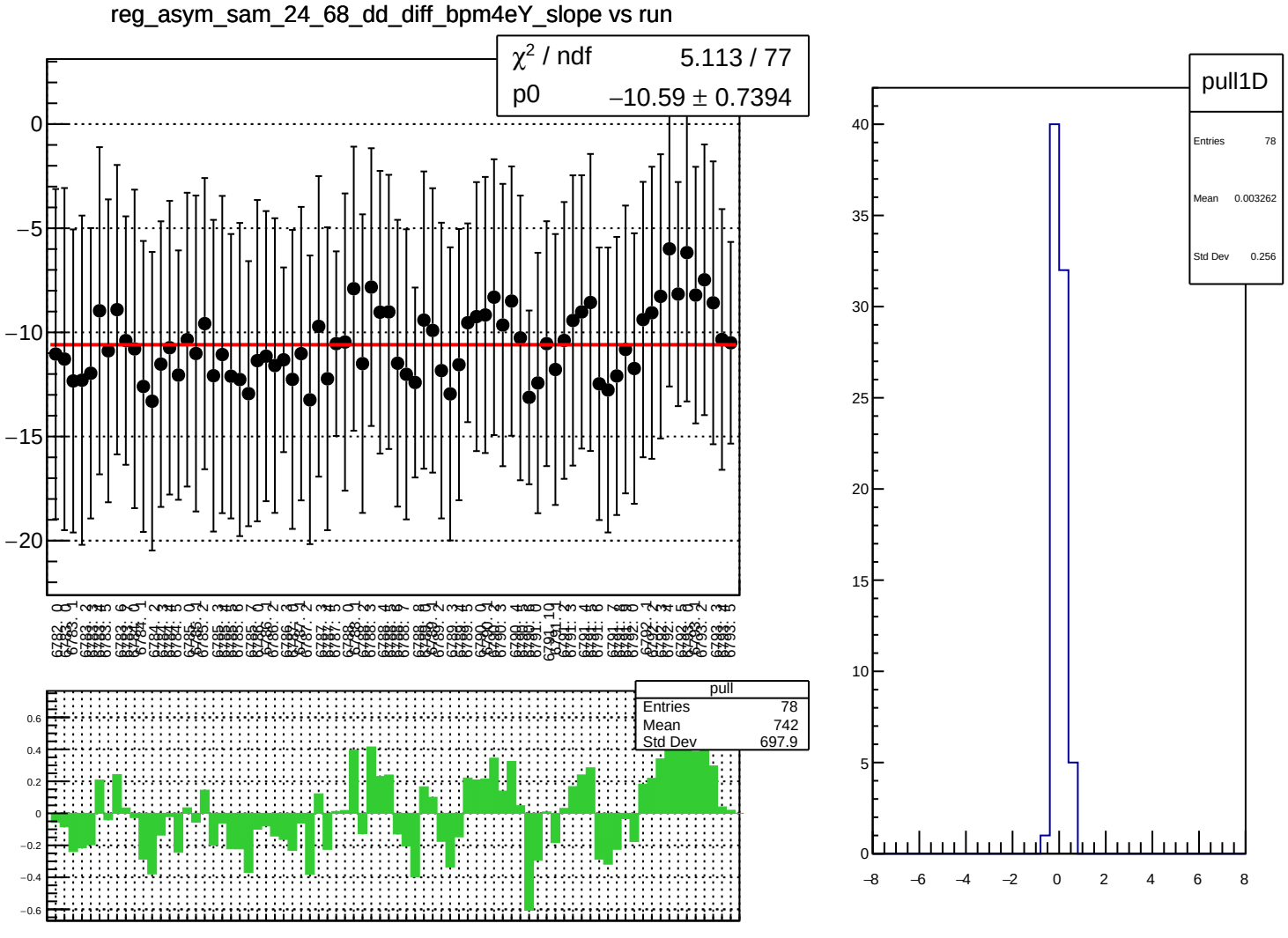

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 1.845 / 77
p0 −30.46 ± 1.131
pull
Entries 78
Mean −1122
Std Dev 1224

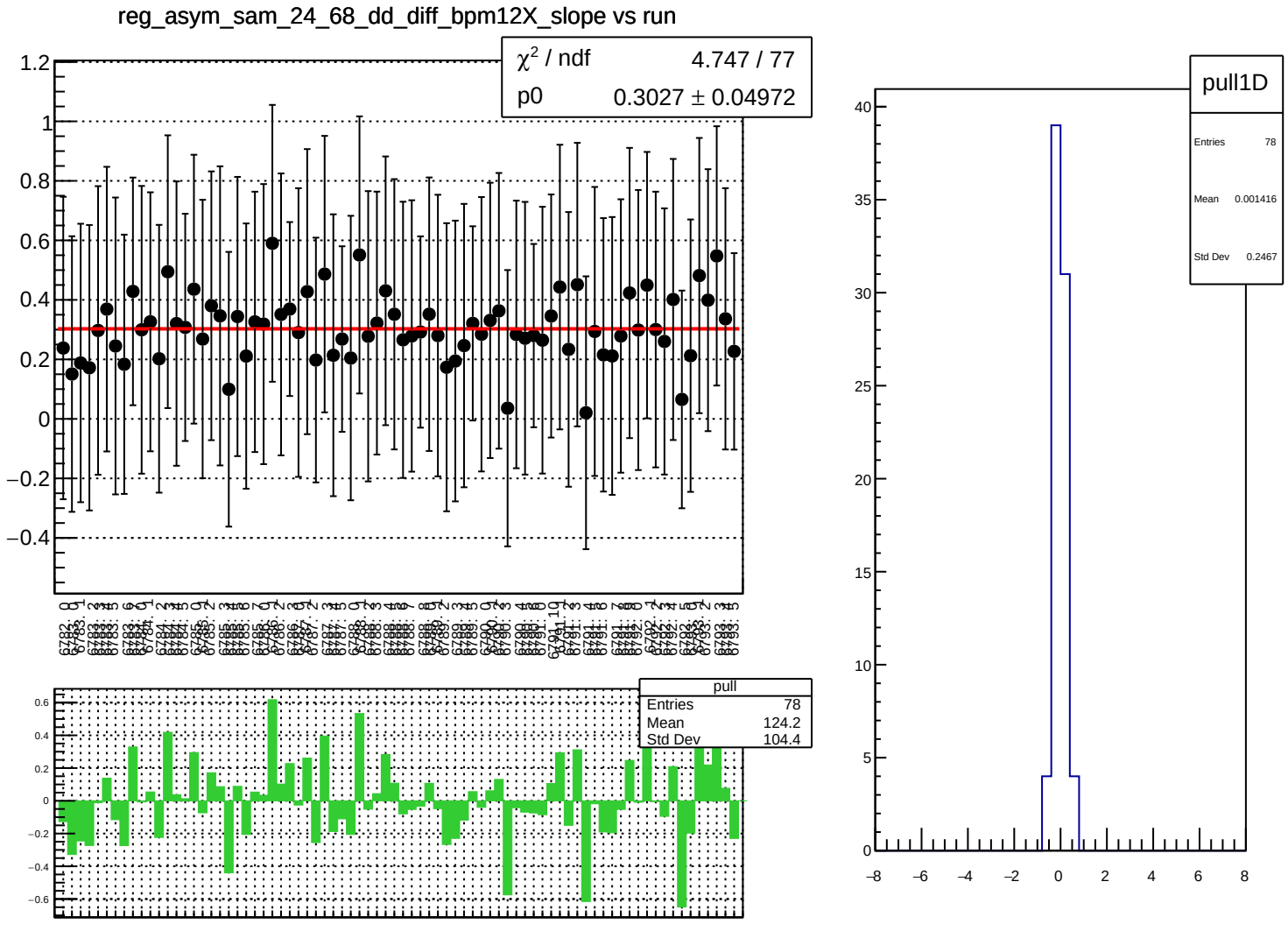

pull1D
Entries 78
Mean 3.29e−05
Std Dev 0.1538

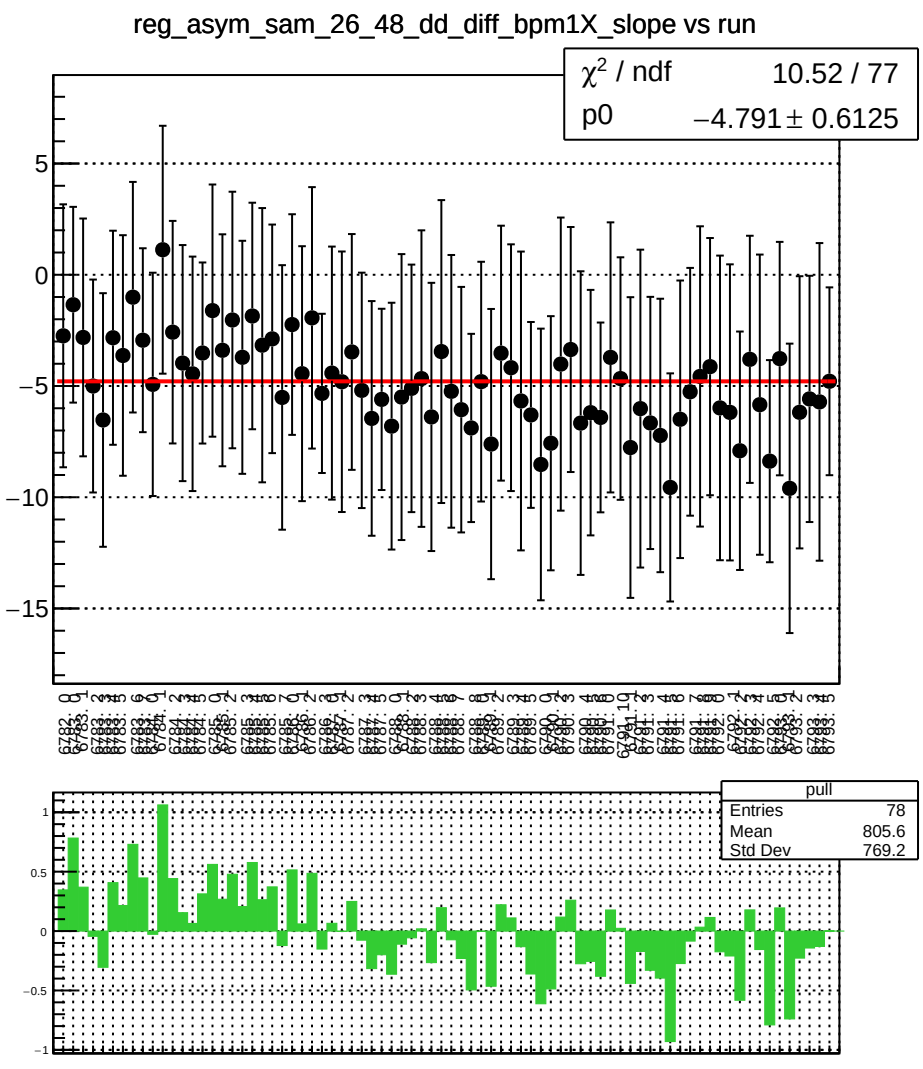

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.411 / 77
p0 −3.967 ± 0.5359
pull
Entries 78
Mean 81.75
Std Dev 44.34
pull1D
Entries 78
Mean −0.009753
Std Dev 0.2376

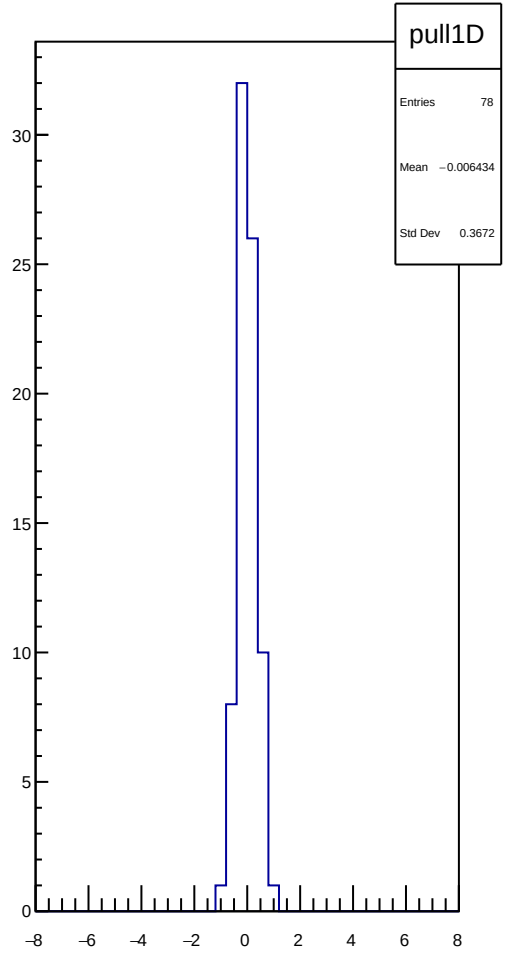

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.242 / 77
p0 −75.79 ± 1.056
pull
Entries 78
Mean 390.8
Std Dev 363.3

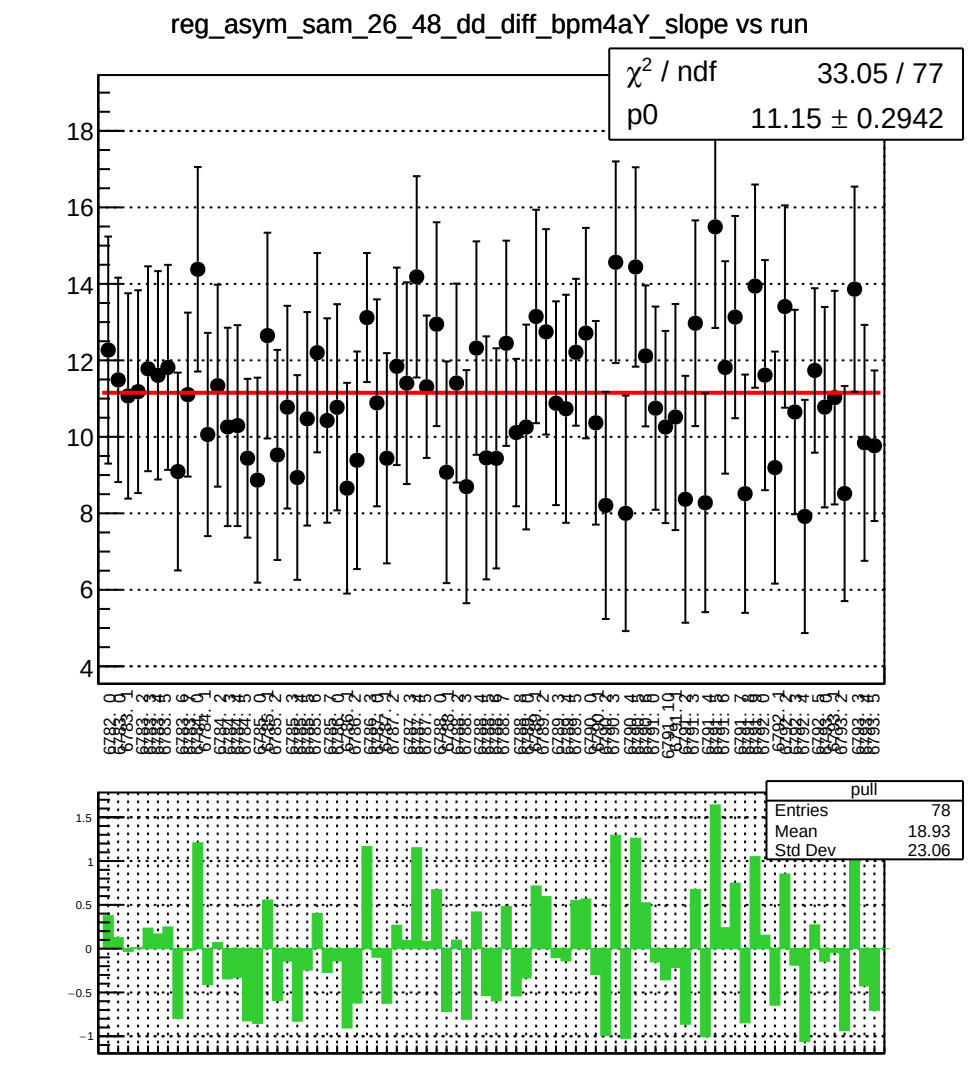

pull1D
Entries 78
Mean −0.0006728
Std Dev 0.1695

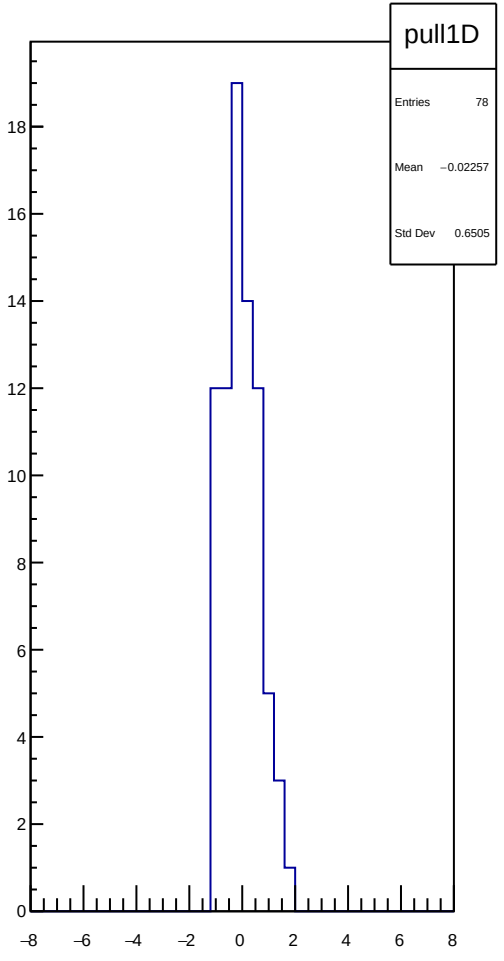

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.113 / 77
p0 −10.59 ± 0.7394
pull
Entries 78
Mean 742
Std Dev 697.9
pull1D
Entries 78
Mean 0.003262
Std Dev 0.256

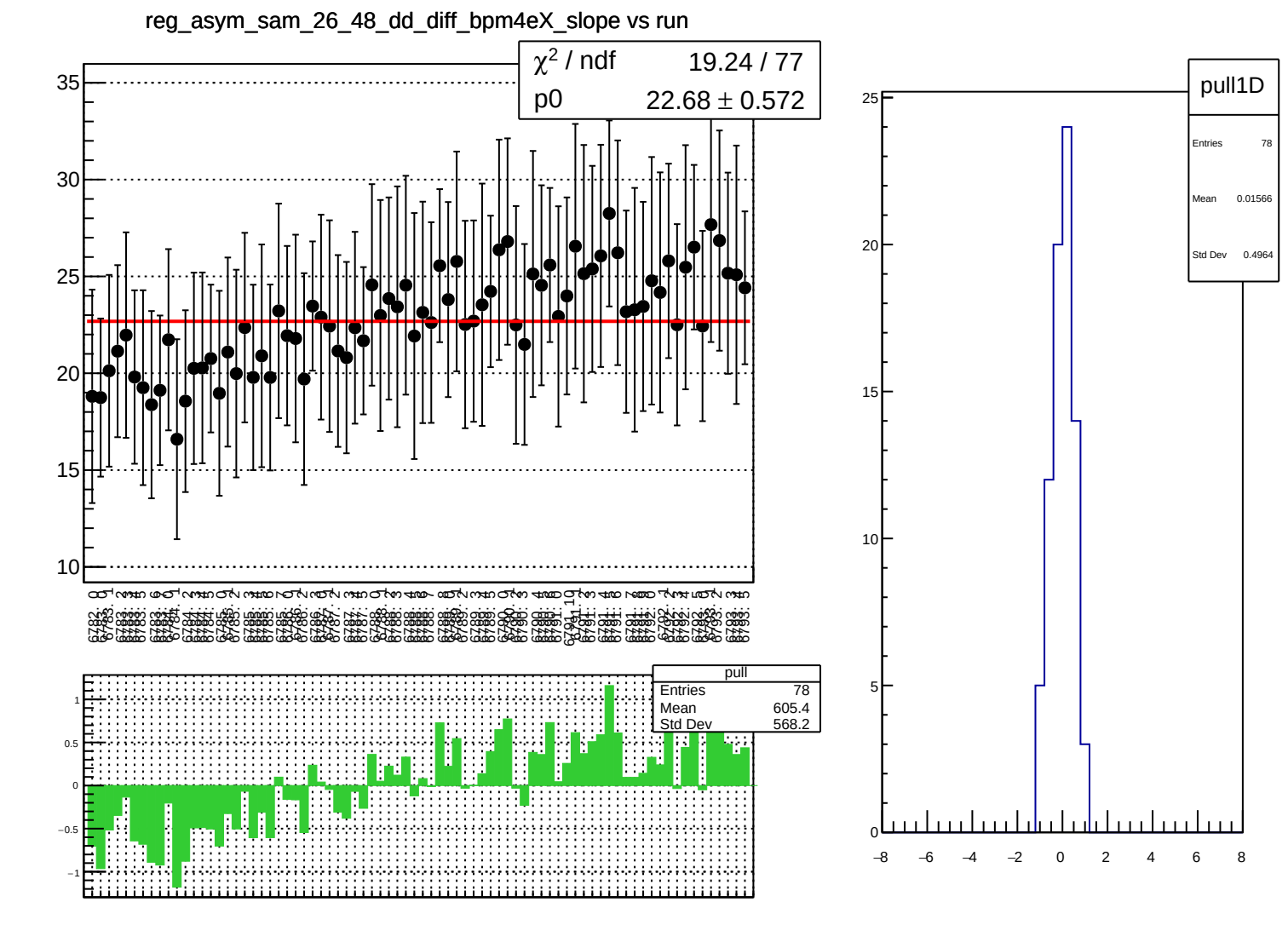

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 4.747 / 77
p0 0.3027 ± 0.04972
pull
Entries 78
Mean 124.2
Std Dev 104.4
pull1D
Entries 78
Mean 0.001416
Std Dev 0.2467

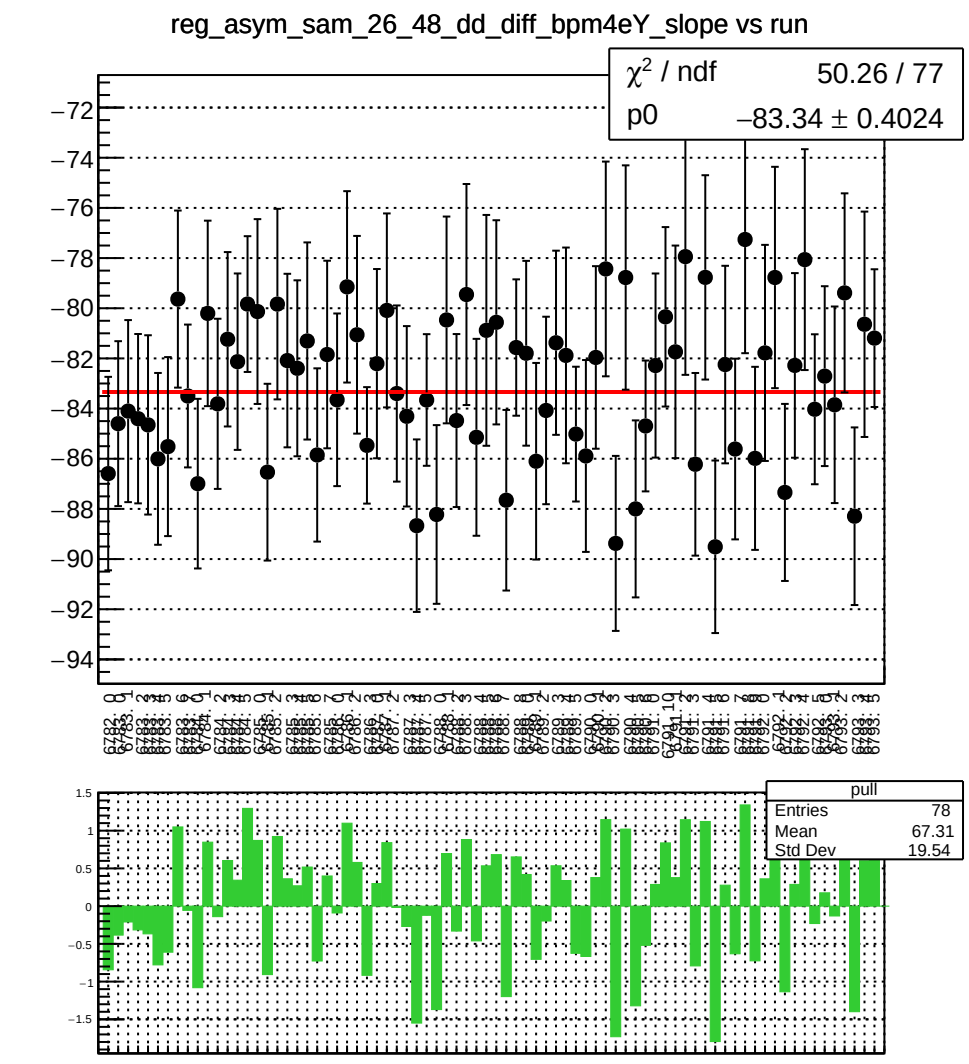

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 10.52 / 77
p0 −4.791 ± 0.6125
pull
Entries 78
Mean 805.6
Std Dev 769.2

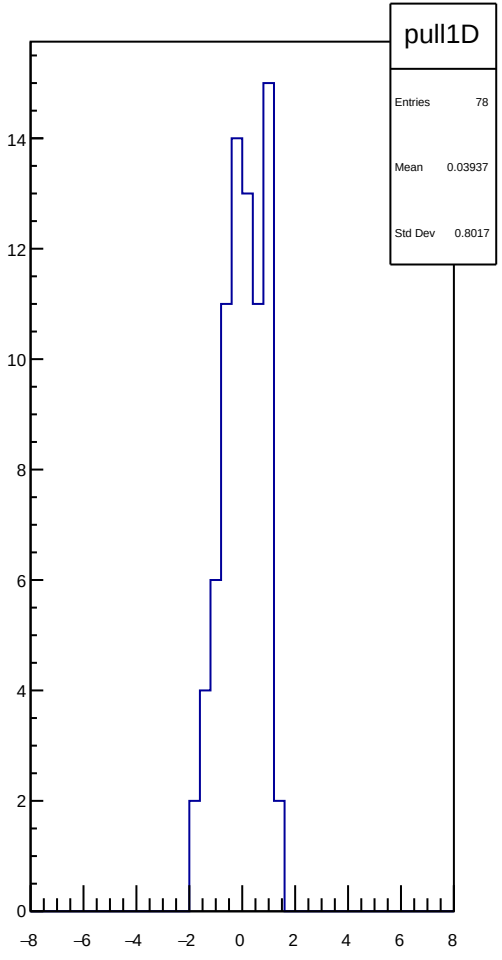

pull1D
Entries 78
Mean −0.006434
Std Dev 0.3672

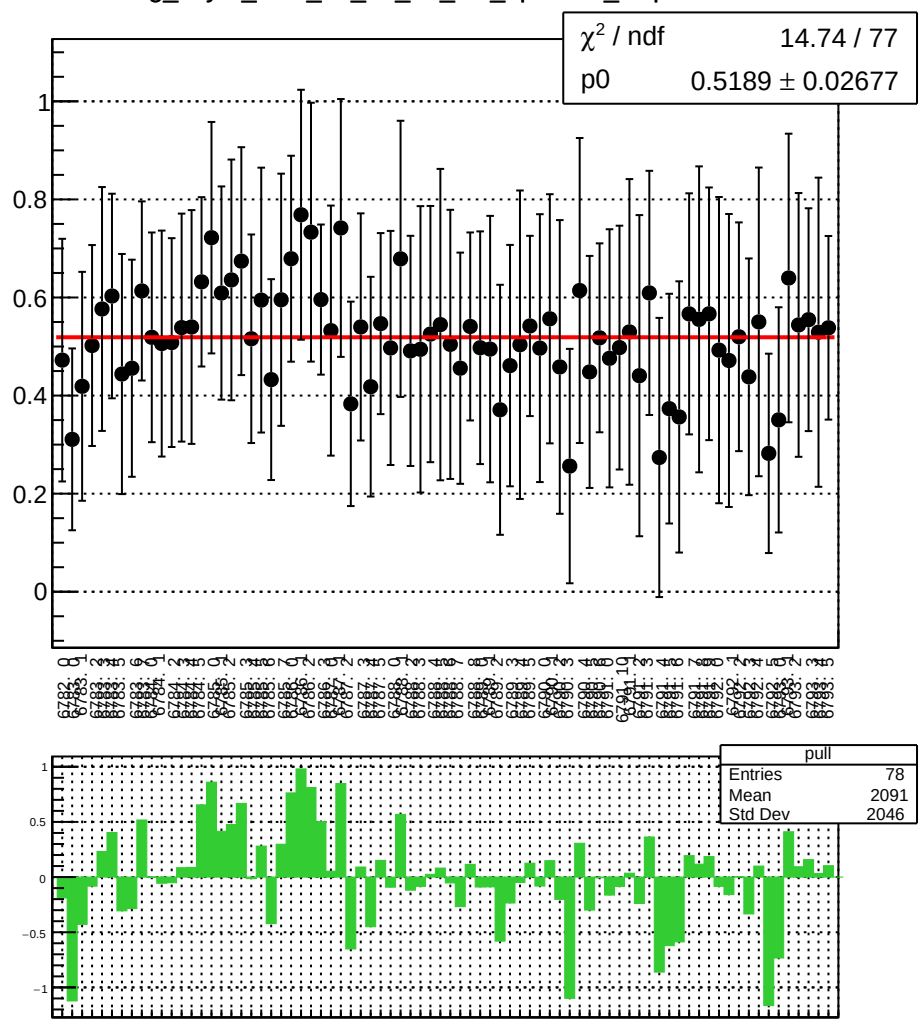

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.05 / 77
p0 11.15 ± 0.2942
pull
Entries 78
Mean 18.93
Std Dev 23.06

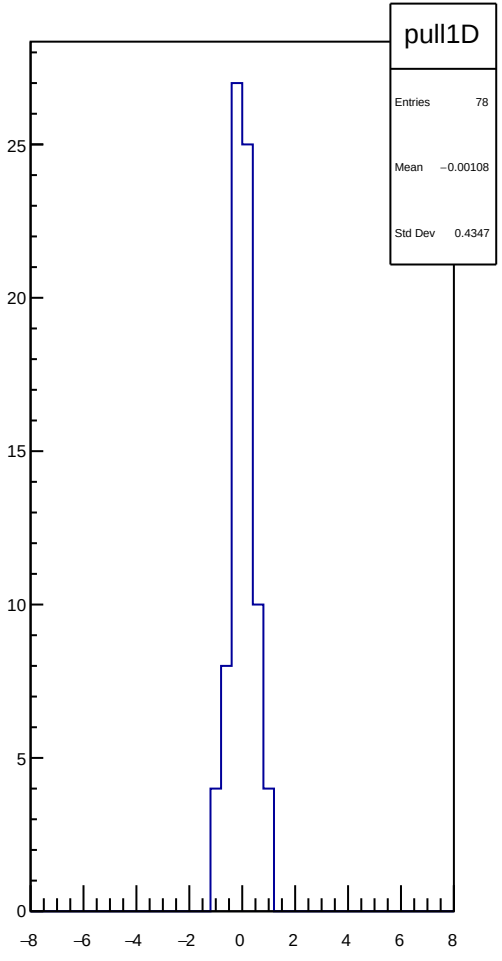

pull1D
Entries 78
Mean −0.02257
Std Dev 0.6505

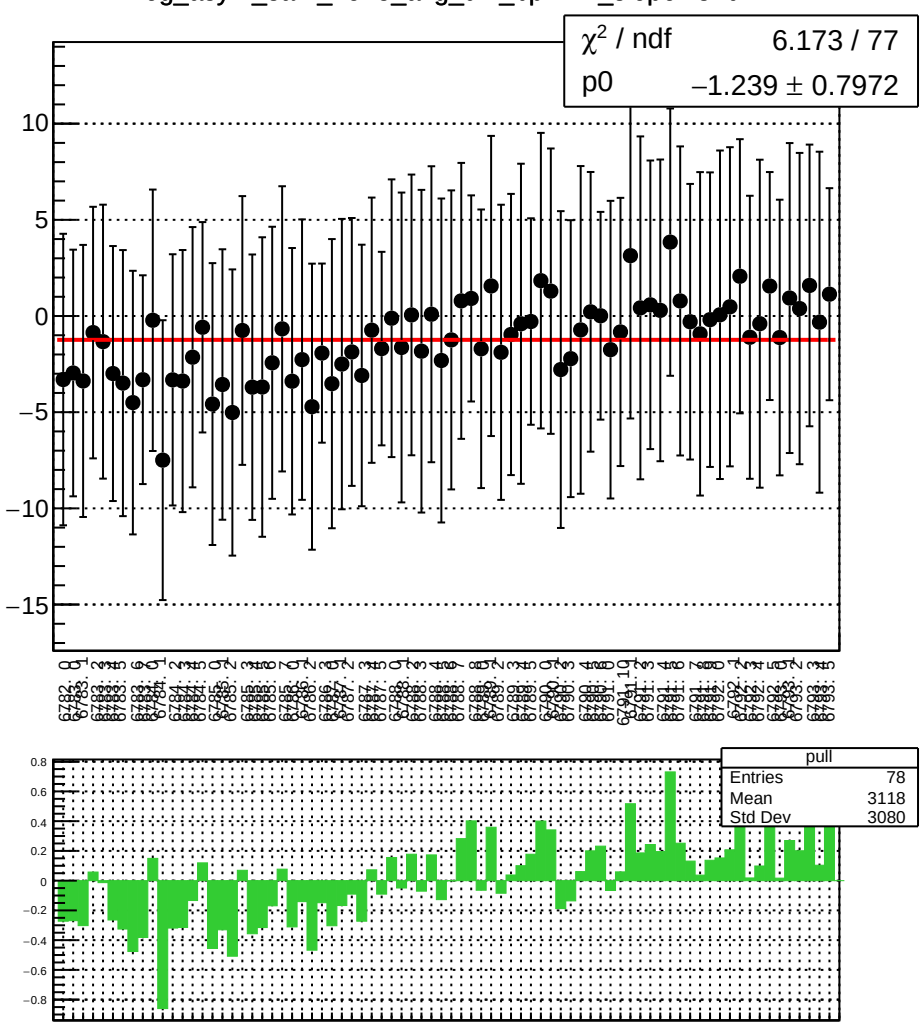

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.24 / 77
p0 22.68 ± 0.572
pull
Entries 78
Mean 605.4
Std Dev 568.2
pull1D
Entries 78
Mean 0.01566
Std Dev 0.4964

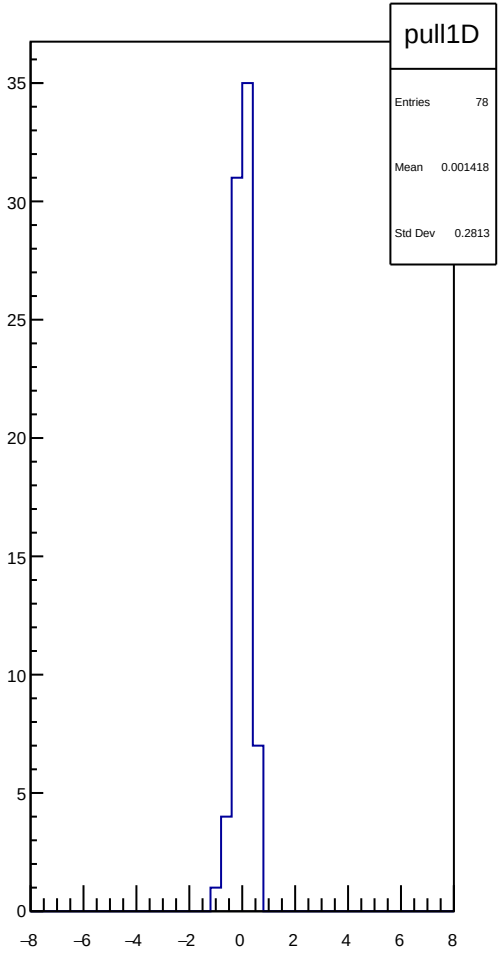

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.26 / 77
p0 −83.34 ± 0.4024
pull
Entries 78
Mean 67.31
Std Dev 19.54

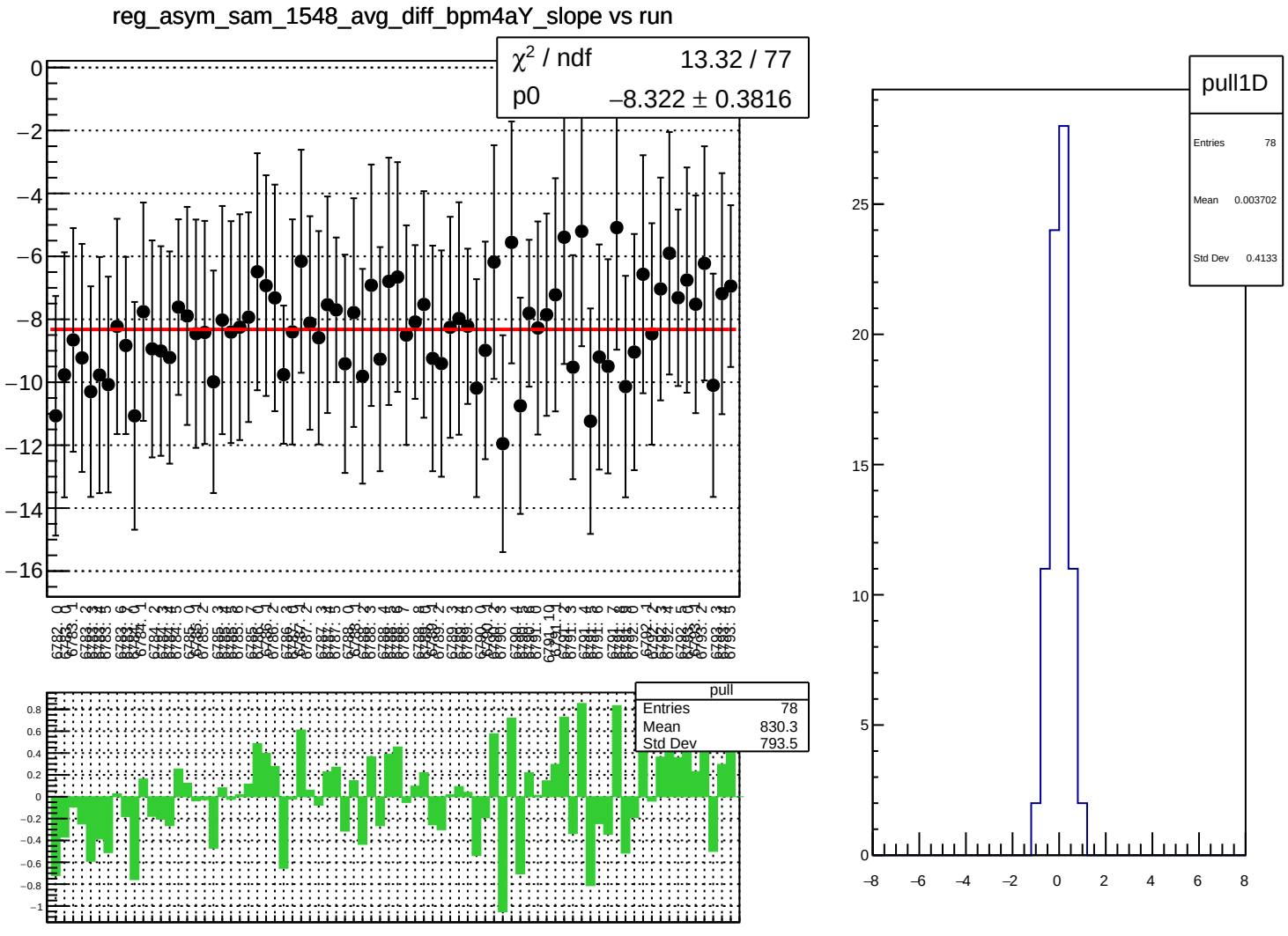

pull1D
Entries 78
Mean 0.03937
Std Dev 0.8017

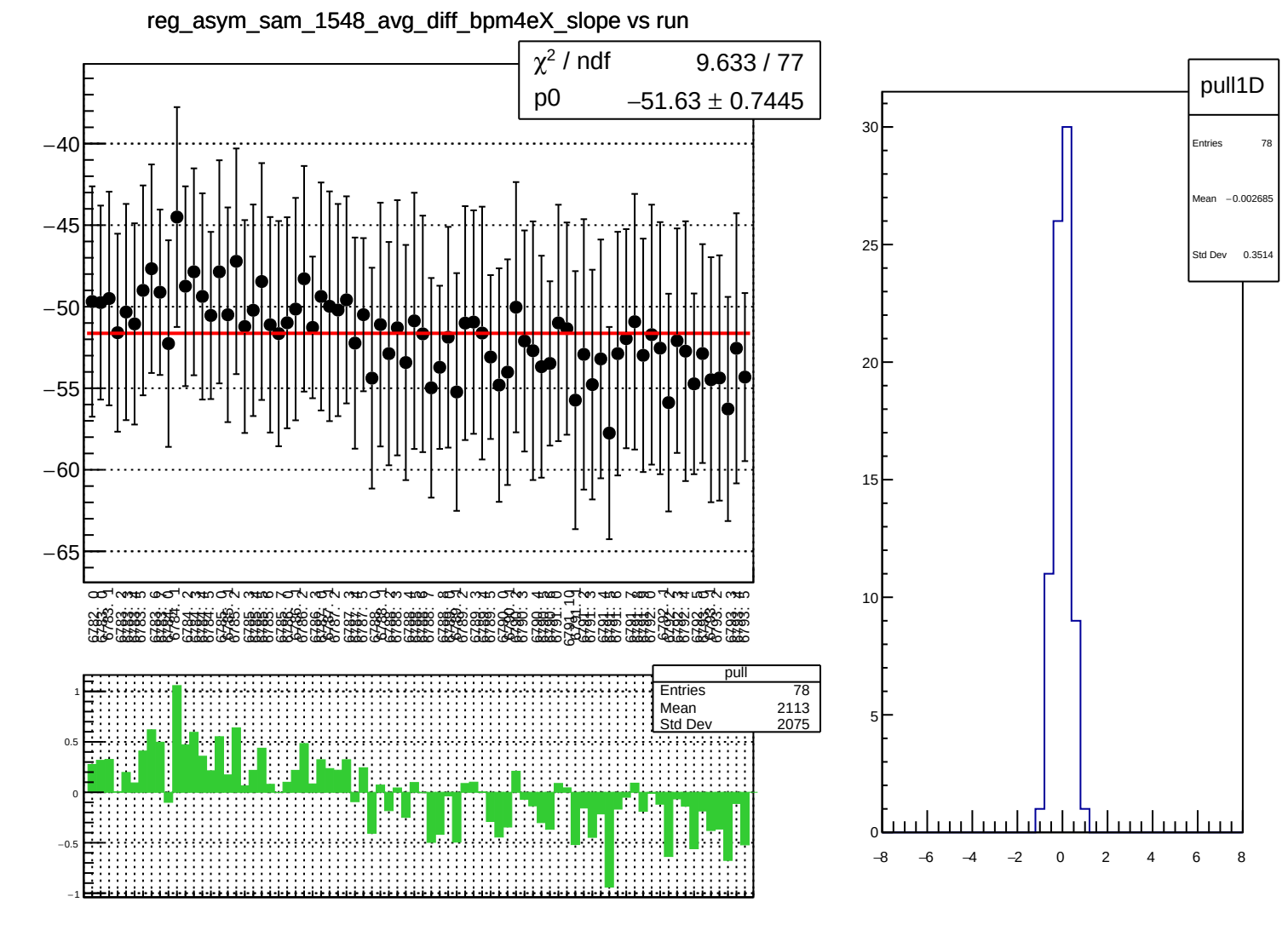

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 14.74 / 77
p0 0.5189 ± 0.02677
pull
Entries 78
Mean 2091
Std Dev 2046

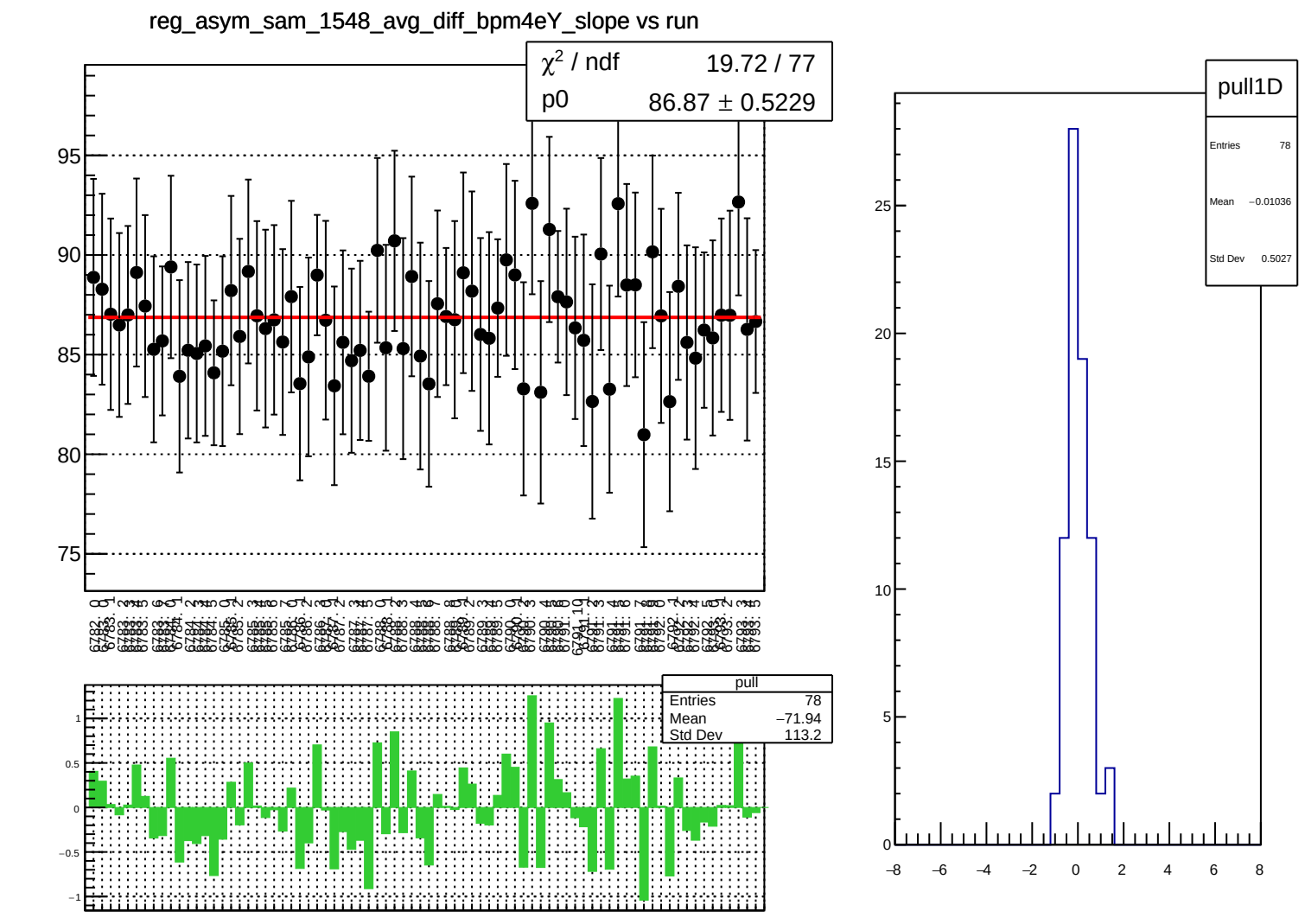

pull1D
Entries 78
Mean −0.00108
Std Dev 0.4347

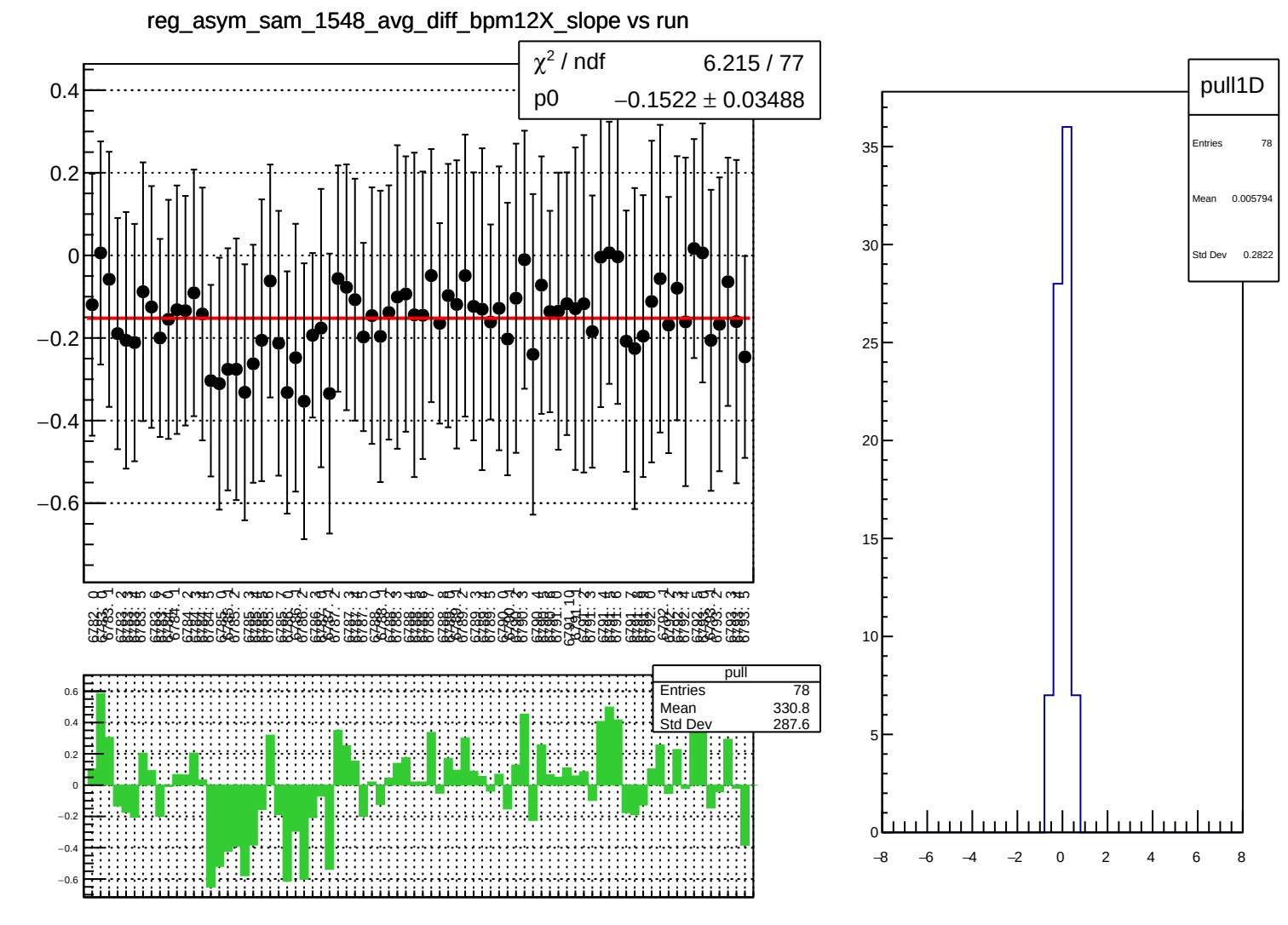

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 6.173 / 77
p0 −1.239 ± 0.7972
pull
Entries 78
Mean 3118
Std Dev 3080

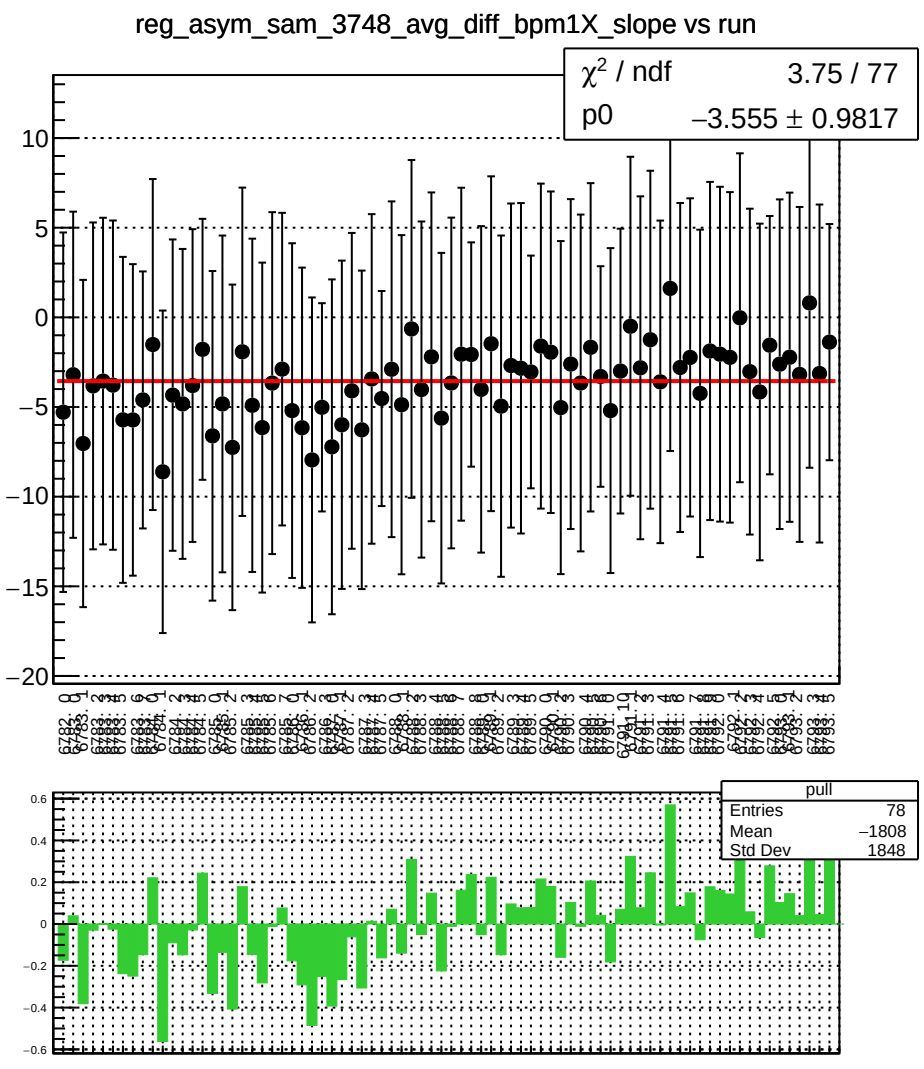

pull1D
Entries 78
Mean 0.001418
Std Dev 0.2813

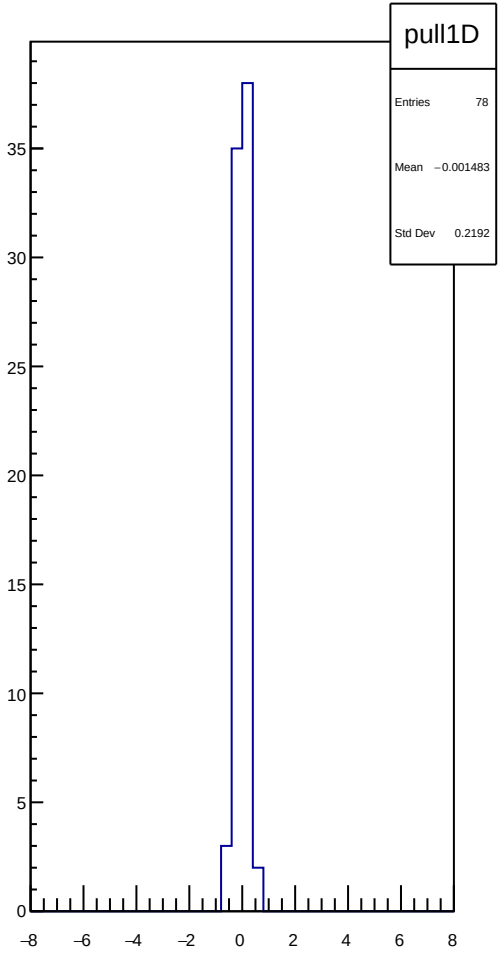

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.32 / 77
p0 −8.322 ± 0.3816
pull
Entries 78
Mean 830.3
Std Dev 793.5
pull1D
Entries 78
Mean 0.003702
Std Dev 0.4133

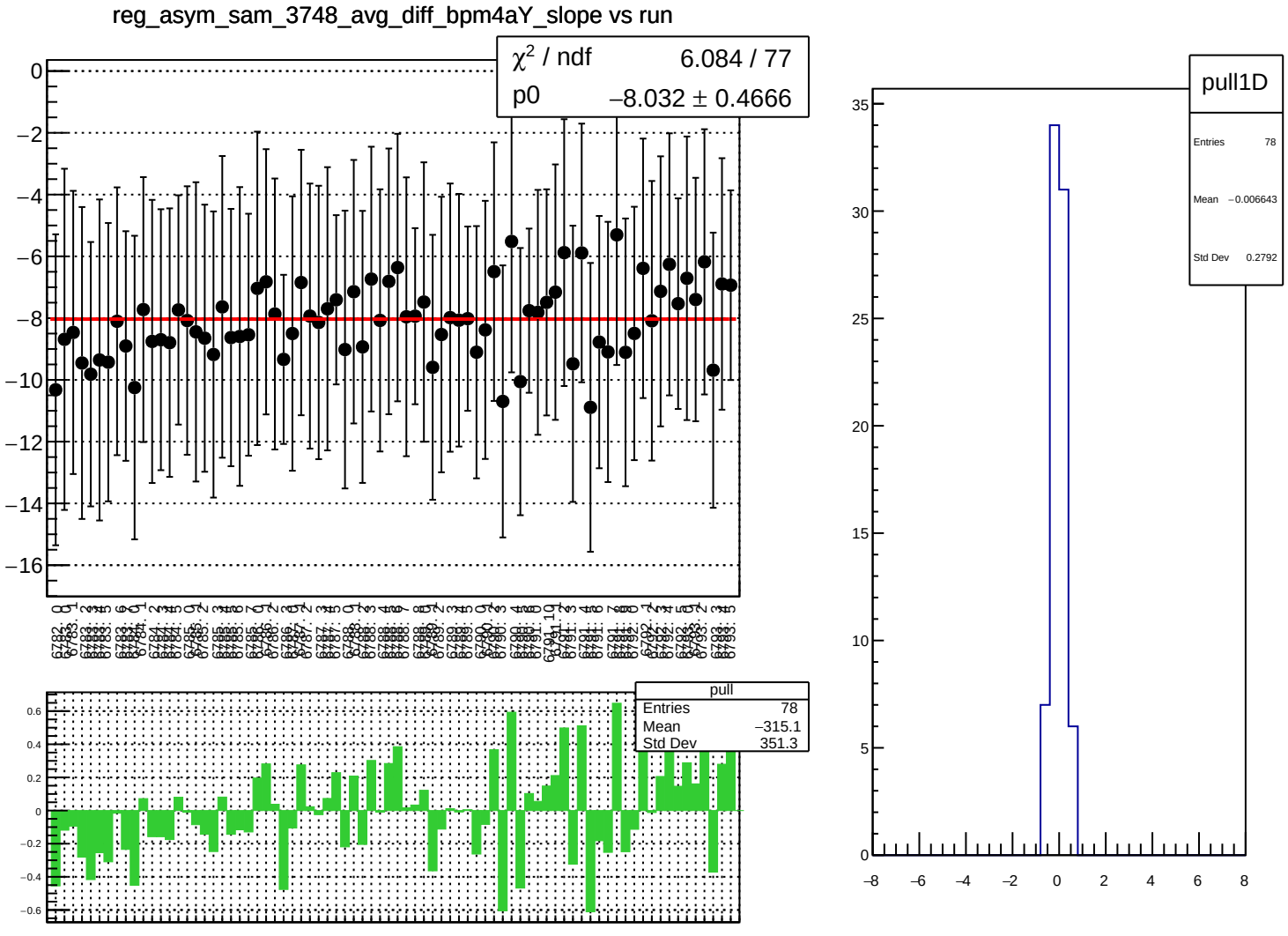

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.633 / 77
p0 −51.63 ± 0.7445
pull
Entries 78
Mean 2113
Std Dev 2075
pull1D
Entries 78
Mean −0.002685
Std Dev 0.3514

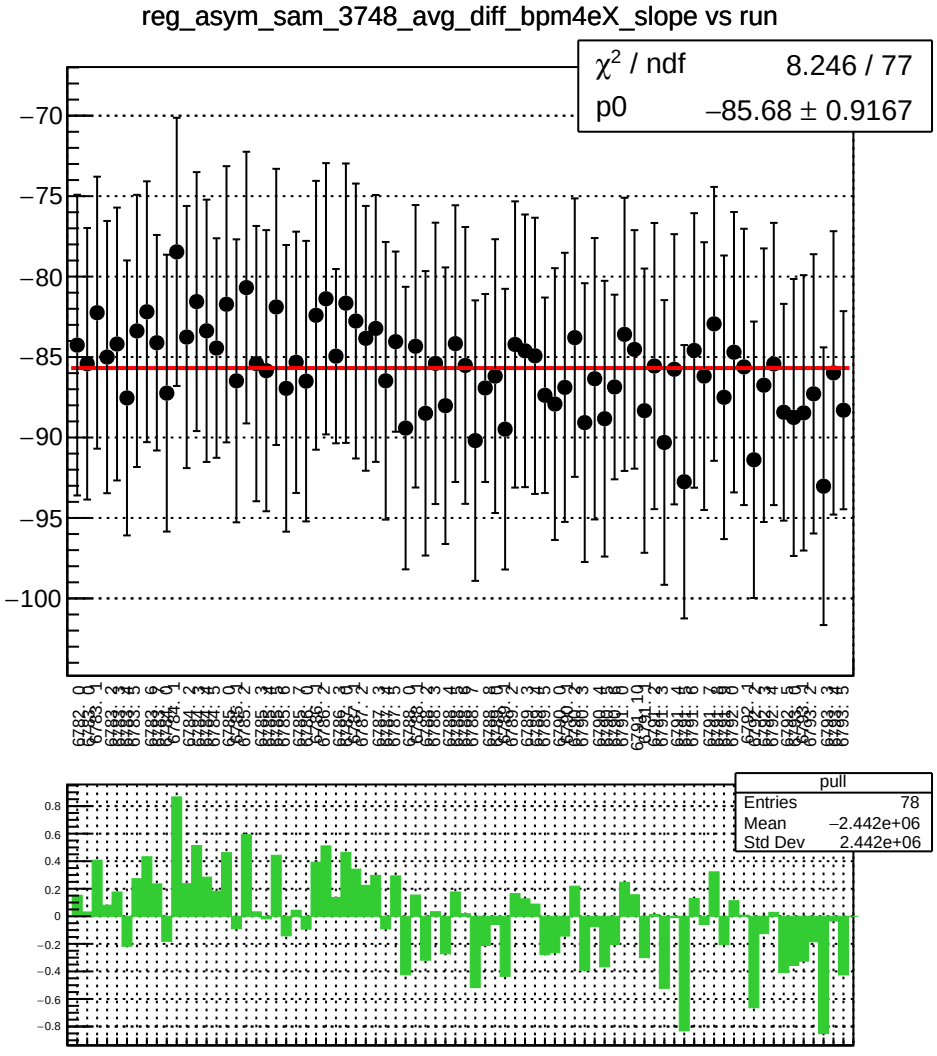

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.72 / 77
p0 86.87 ± 0.5229
95
90
85
80
75
pull
Entries 78
Mean −71.94
Std Dev 113.2
1
0.5
0
−0.5
−1
pull1D
Entries 78
Mean −0.01036
Std Dev 0.5027
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

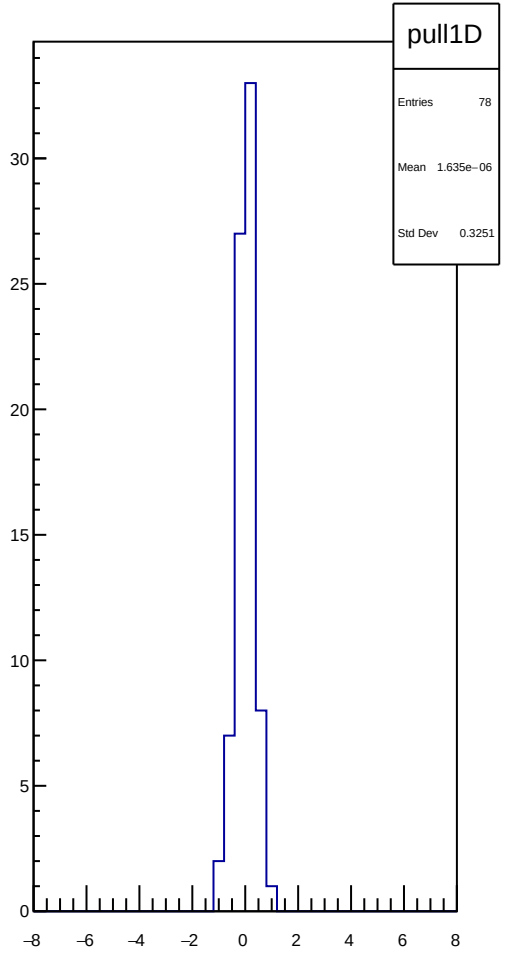

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 6.215 / 77
p0 −0.1522 ± 0.03488
pull
Entries 78
Mean 330.8
Std Dev 287.6
pull1D
Entries 78
Mean 0.005794
Std Dev 0.2822

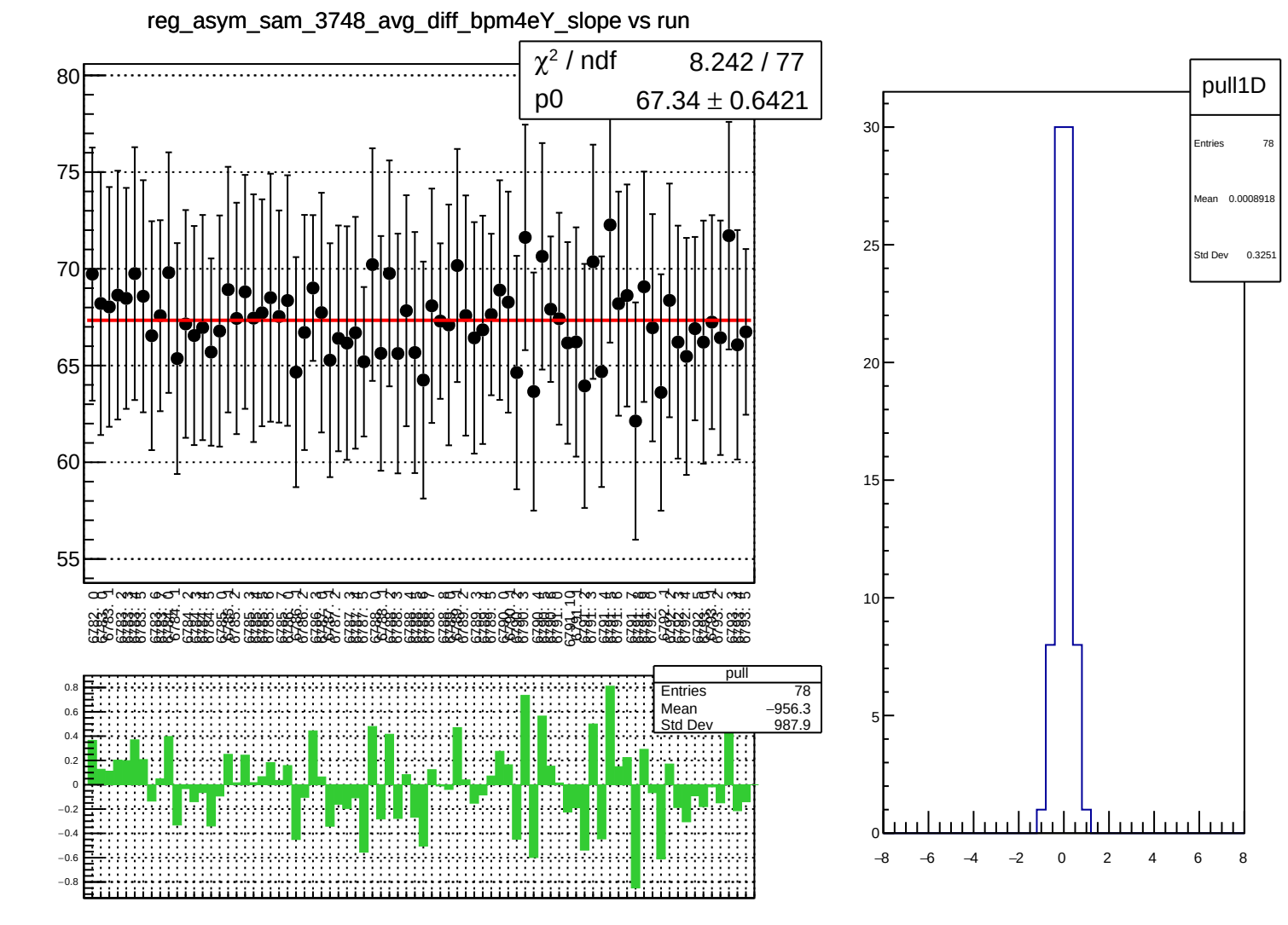

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 3.75 / 77
p0 −3.555 ± 0.9817
pull
Entries 78
Mean −1808
Std Dev 1848

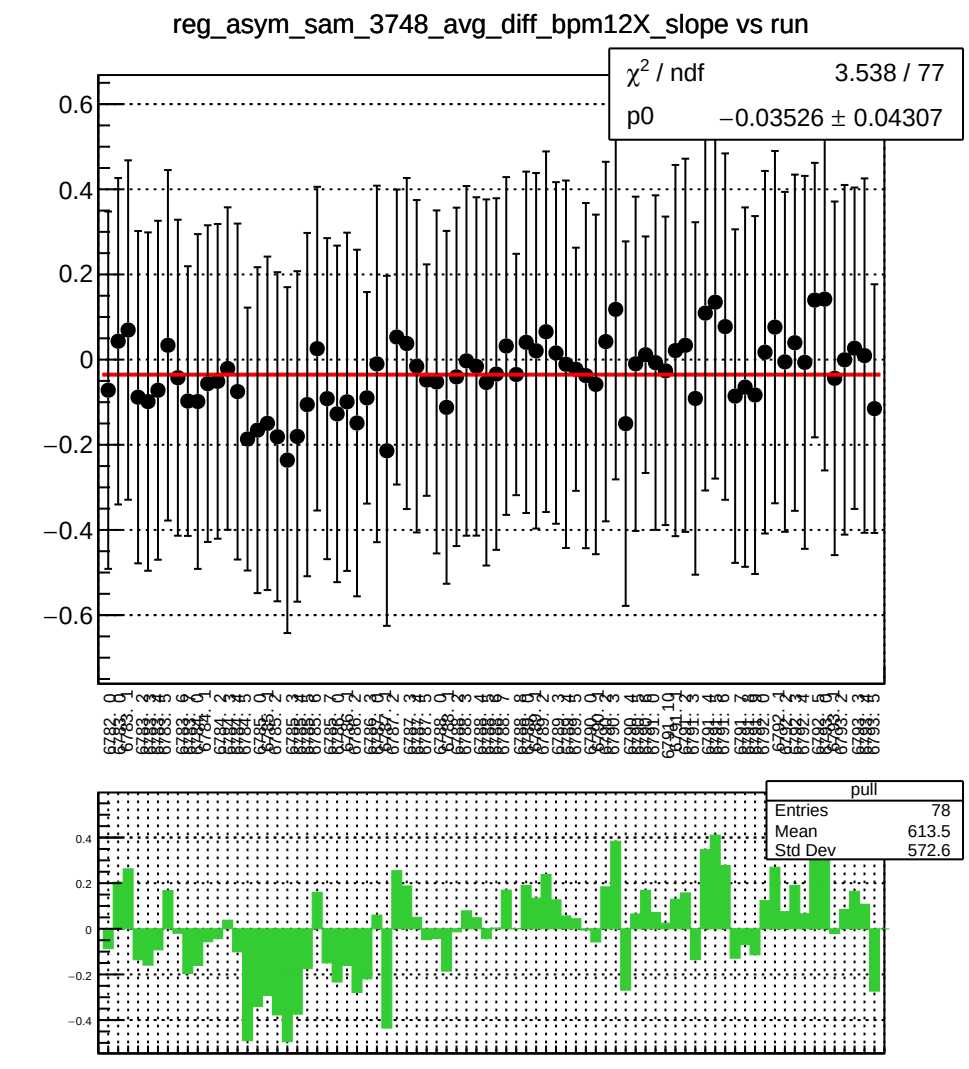

pull1D
Entries 78
Mean −0.001483
Std Dev 0.2192

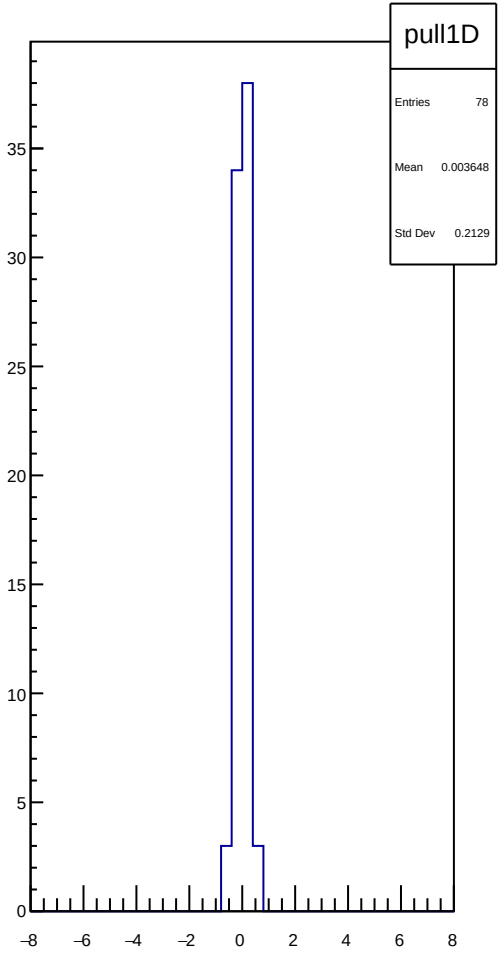

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.084 / 77
p0 −8.032 ± 0.4666
pull
Entries 78
Mean −315.1
Std Dev 351.3
pull1D
Entries 78
Mean −0.006643
Std Dev 0.2792

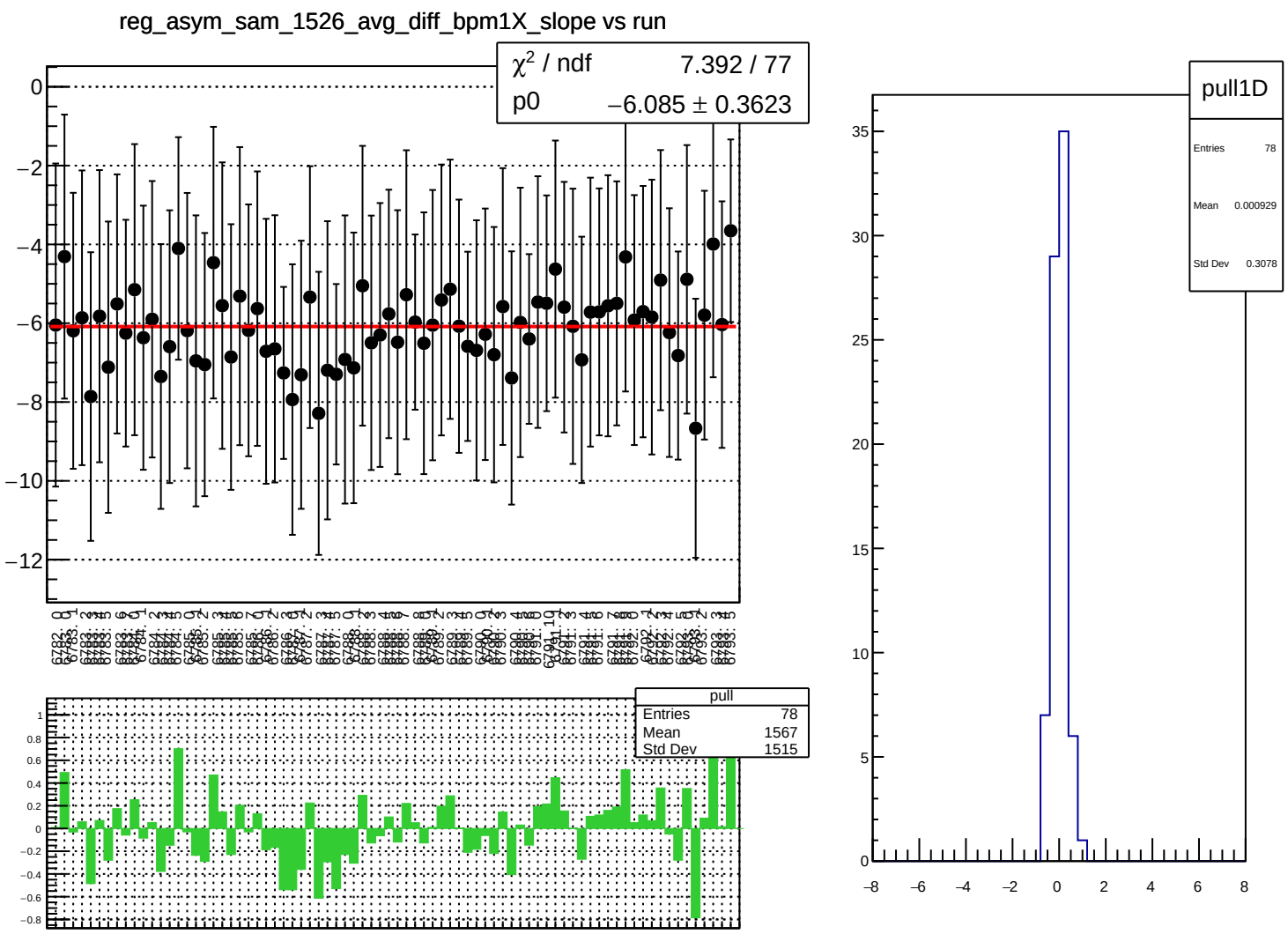

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.246 / 77
p0 −85.68 ± 0.9167
pull
Entries 78
Mean −2.442e+06
Std Dev 2.442e+06

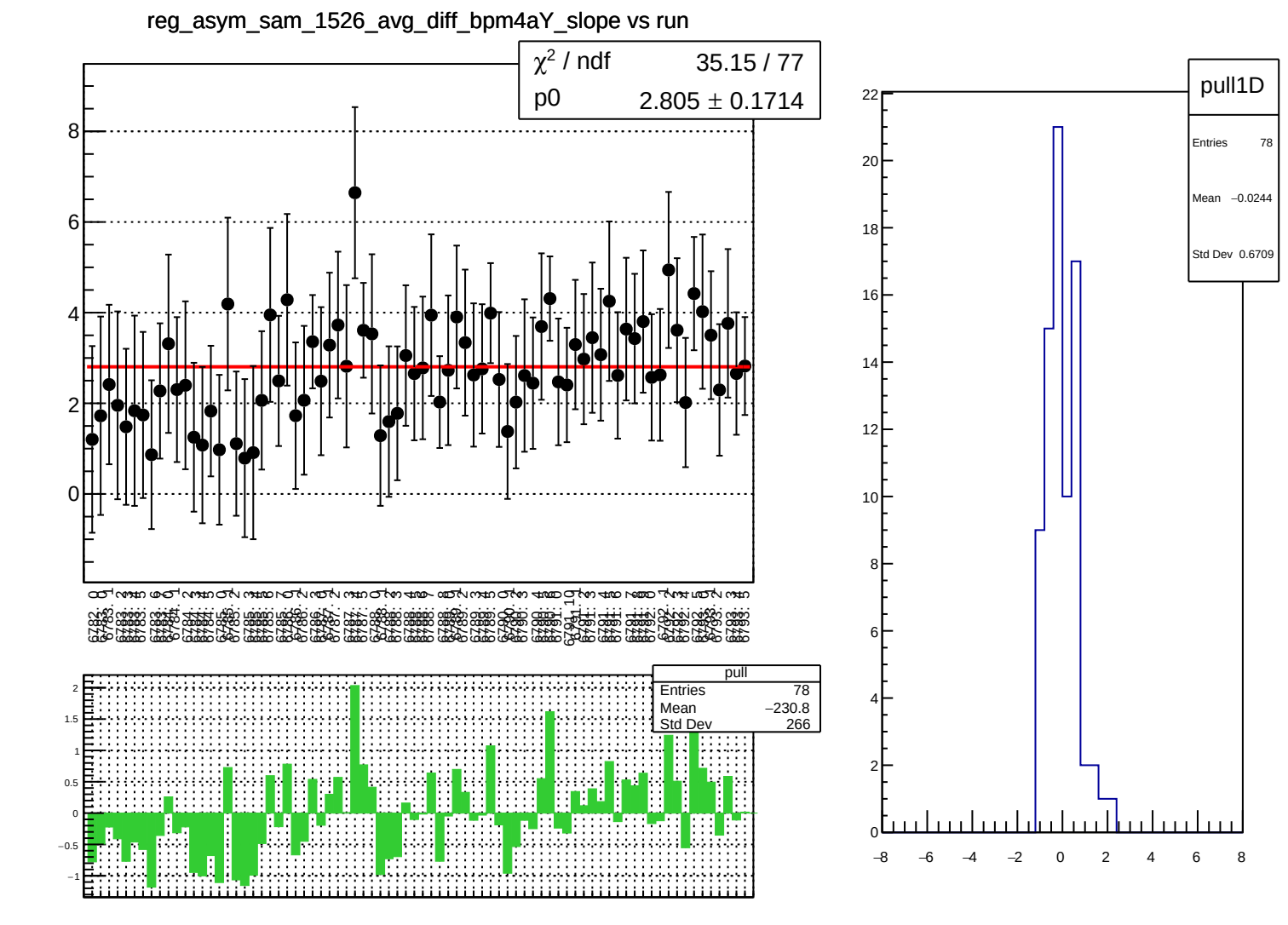

pull1D
Entries 78
Mean 1.635e−06
Std Dev 0.3251

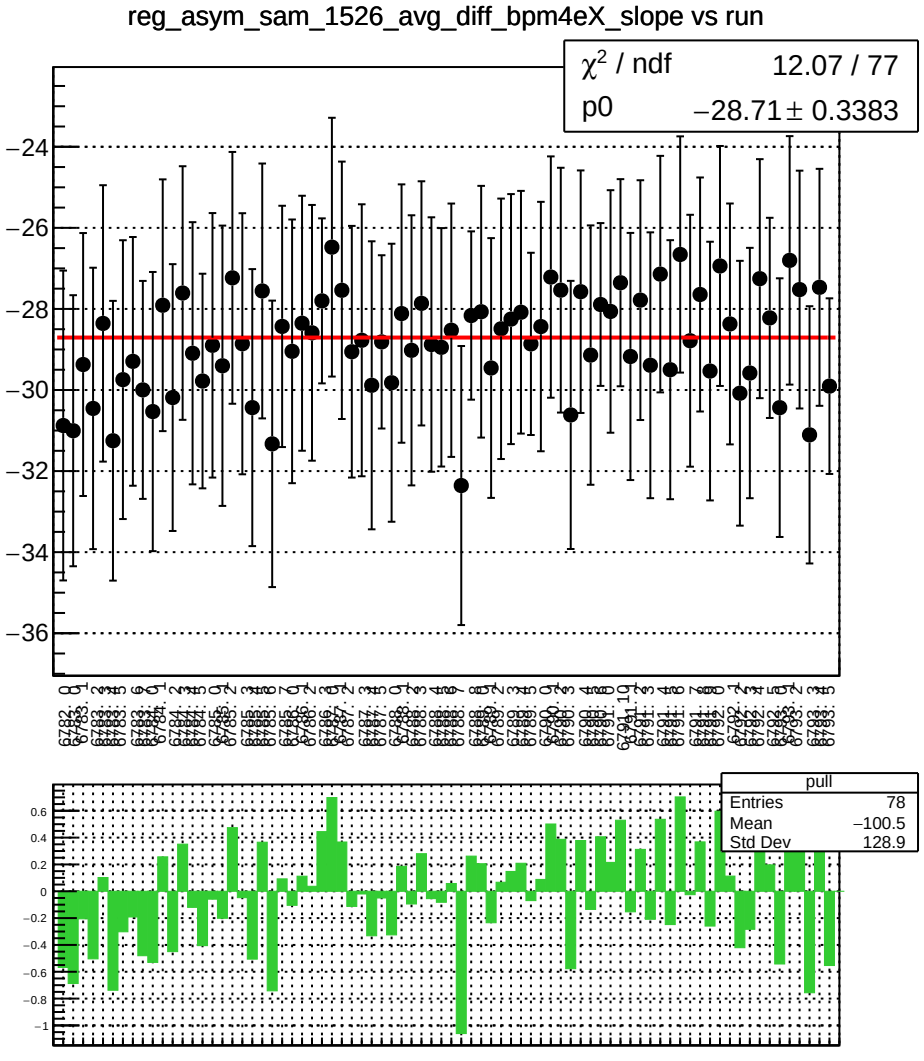

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.242 / 77
p0 67.34 ± 0.6421
pull
Entries 78
Mean −956.3
Std Dev 987.9
pull1D
Entries 78
Mean 0.0008918
Std Dev 0.3251

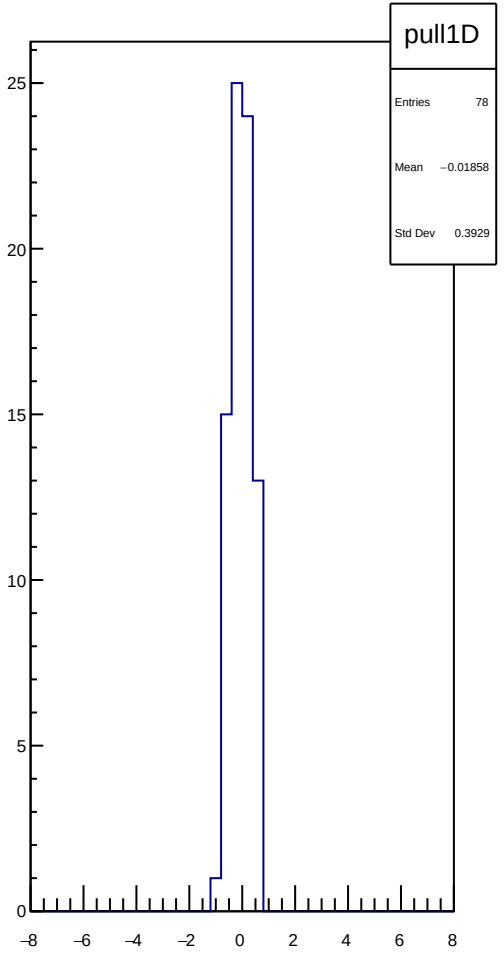

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 3.538 / 77
p0 −0.03526 ± 0.04307
pull
Entries 78
Mean 613.5
Std Dev 572.6

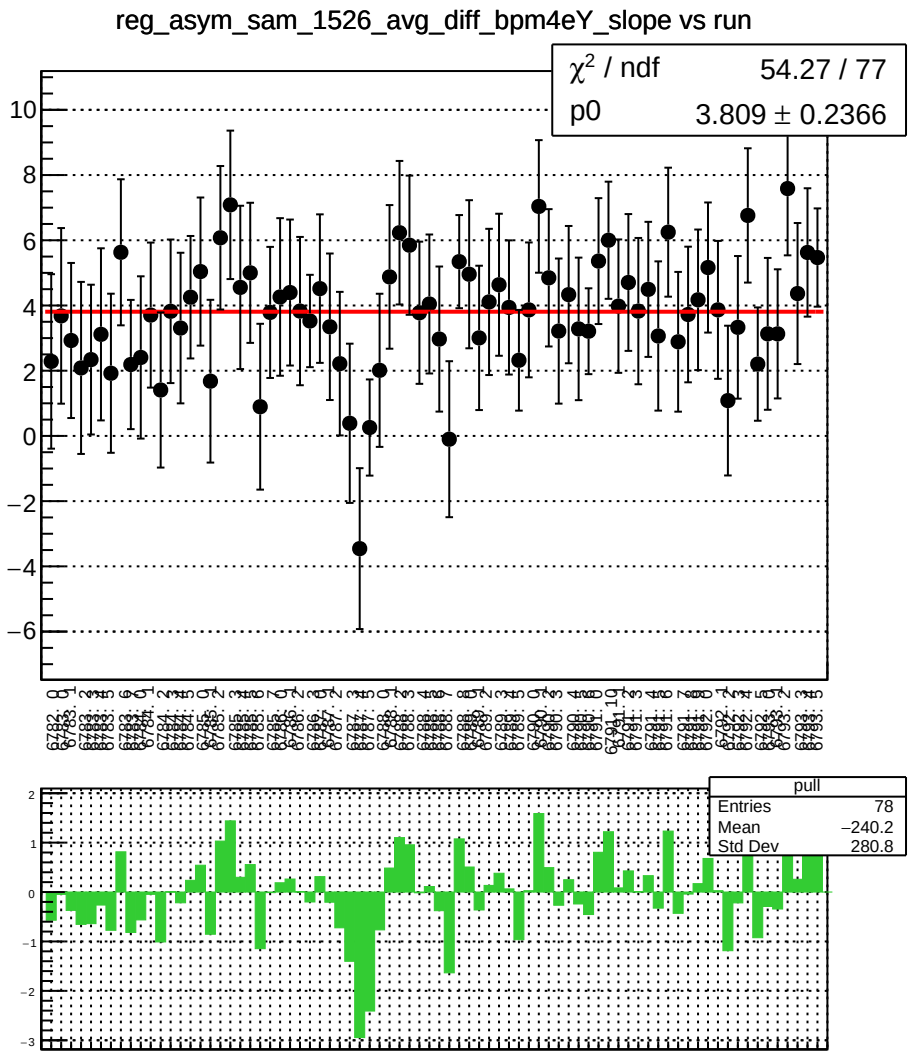

pull1D
Entries 78
Mean 0.003648
Std Dev 0.2129

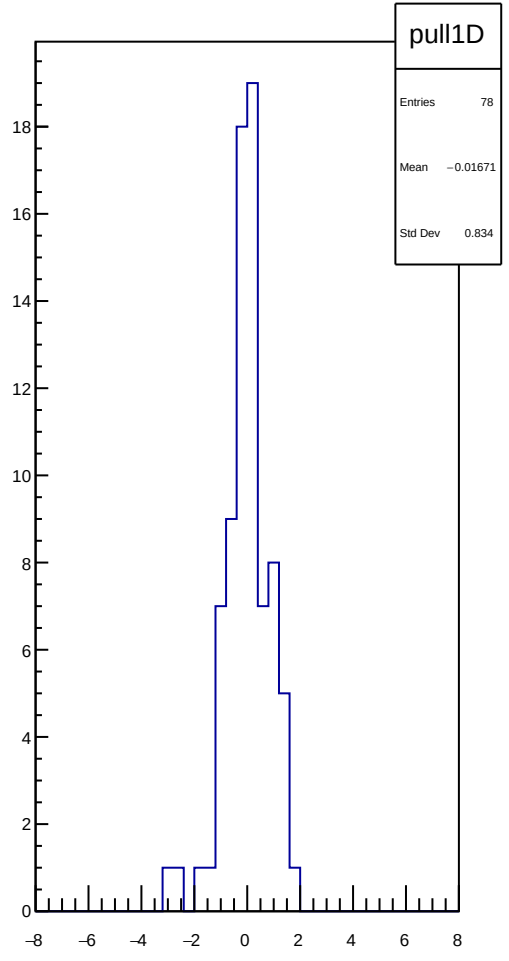

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 7.392 / 77
p0 −6.085 ± 0.3623
pull
Entries 78
Mean 1567
Std Dev 1515
pull1D
Entries 78
Mean 0.000929
Std Dev 0.3078

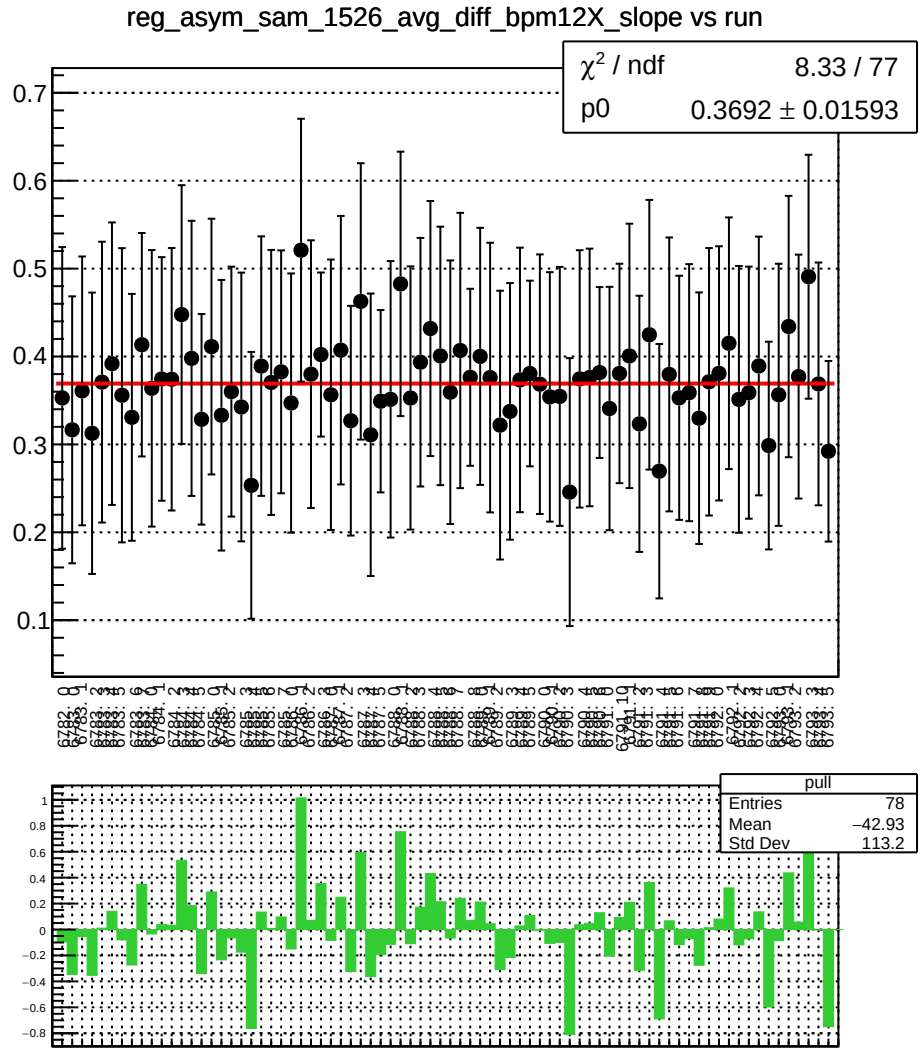

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.15 / 77
p0 2.805 ± 0.1714
pull
Entries 78
Mean −230.8
Std Dev 266
pull1D
Entries 78
Mean −0.0244
Std Dev 0.6709

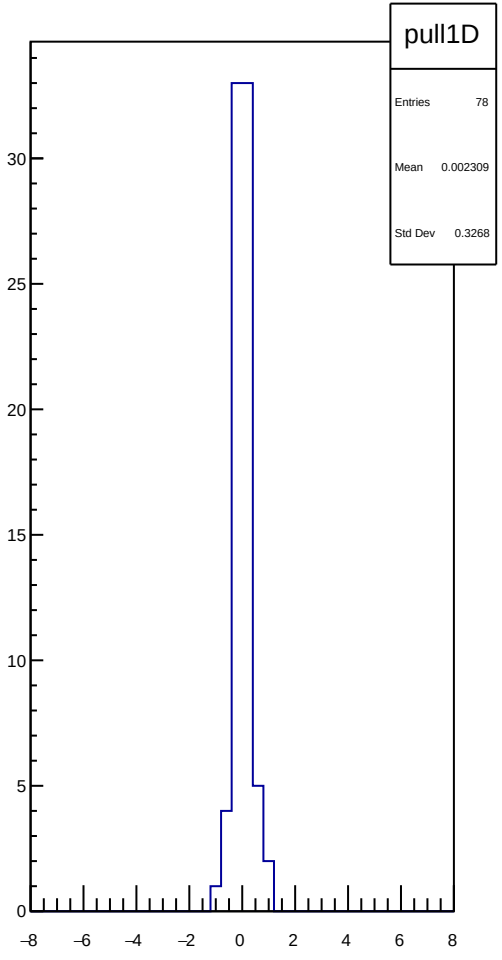

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.07 / 77
p0 −28.71 ± 0.3383
pull
Entries 78
Mean −100.5
Std Dev 128.9

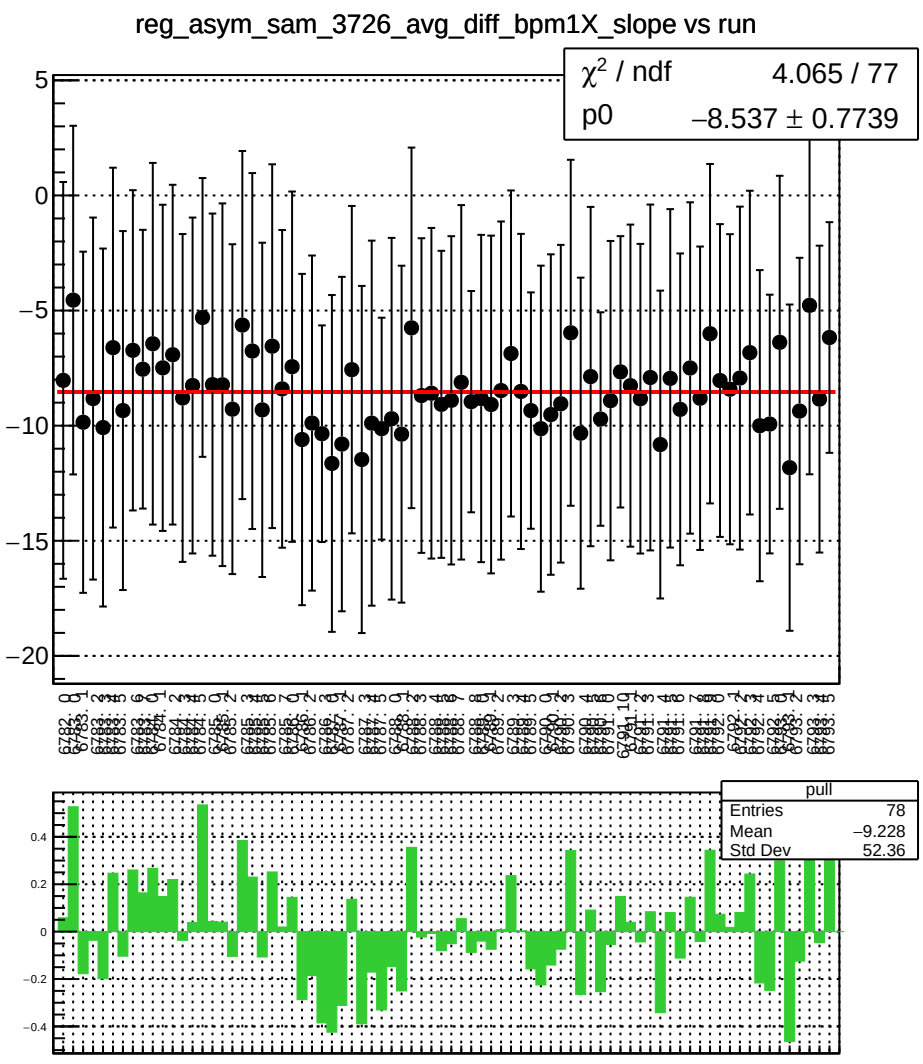

pull1D
Entries 78
Mean −0.01858
Std Dev 0.3929

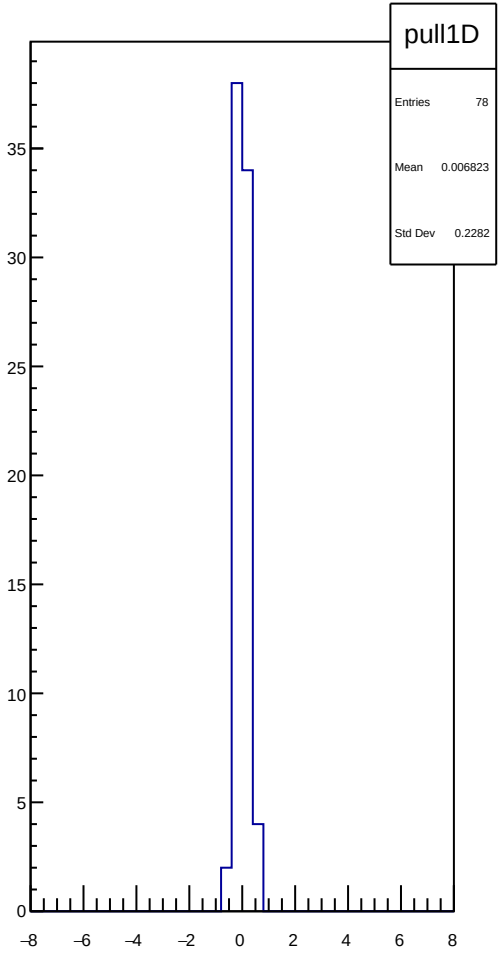

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 54.27 / 77
p0 3.809 ± 0.2366
pull
Entries 78
Mean −240.2
Std Dev 280.8

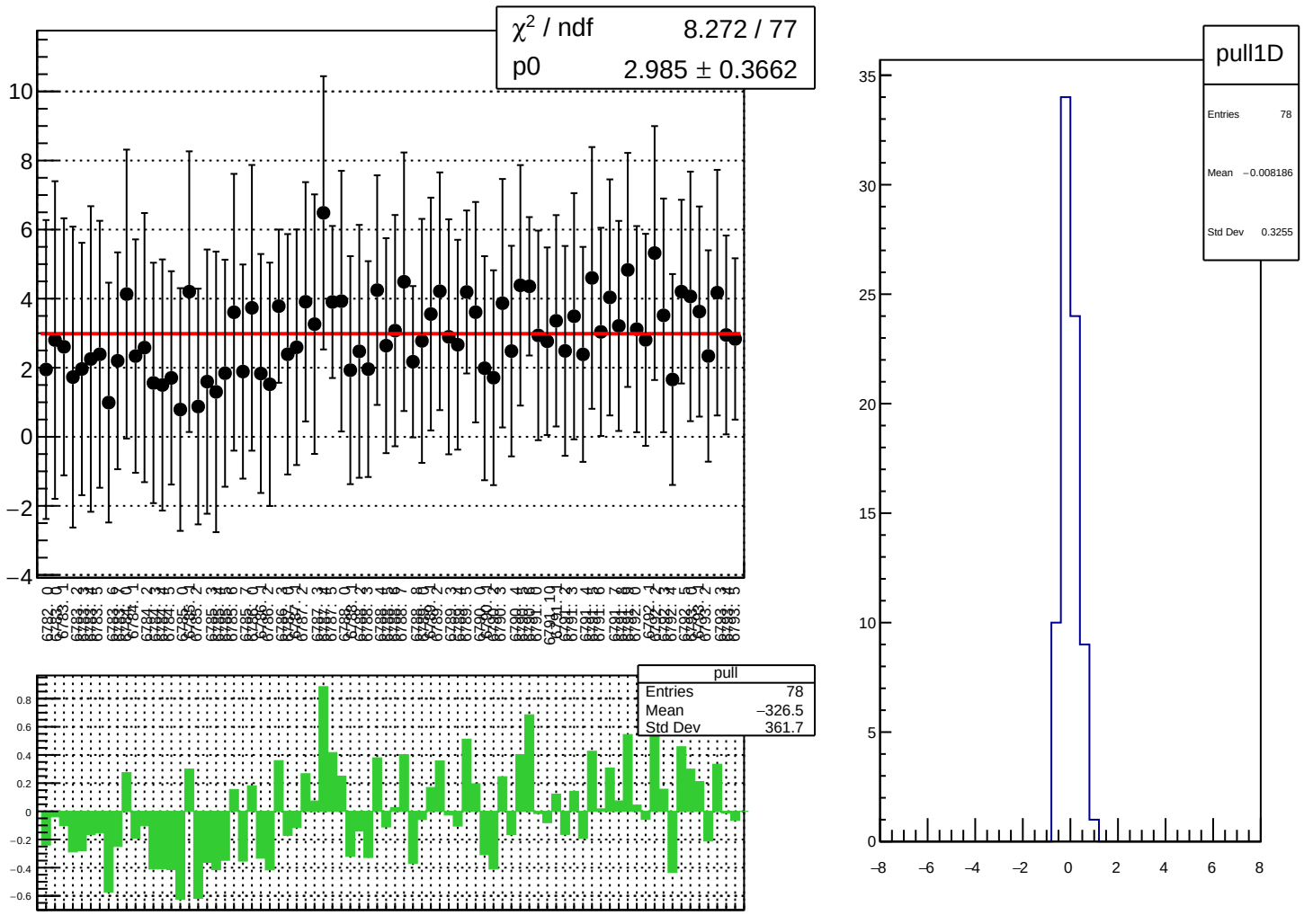

pull1D
Entries 78
Mean −0.01671
Std Dev 0.834

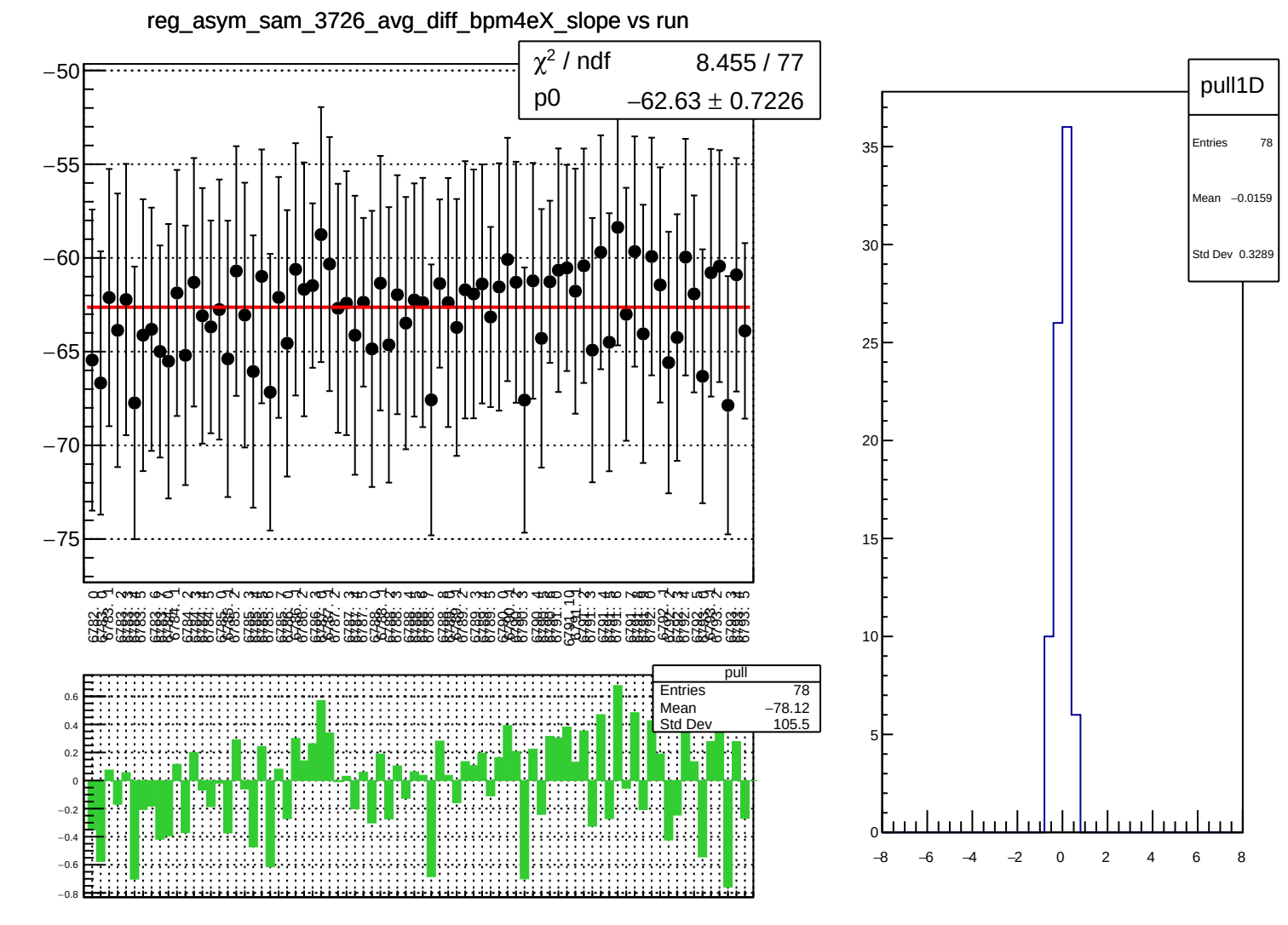

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 8.33 / 77
p0 0.3692 ± 0.01593
pull
Entries 78
Mean −42.93
Std Dev 113.2

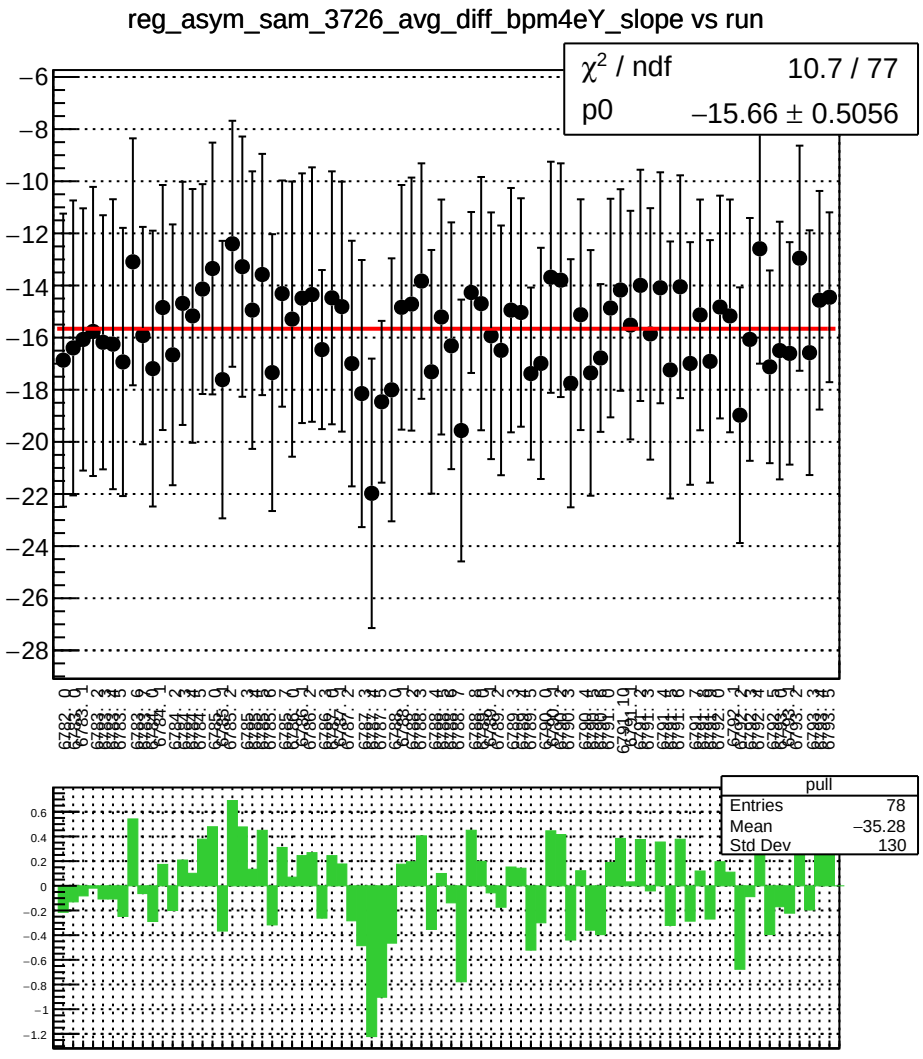

pull1D
Entries 78
Mean 0.002309
Std Dev 0.3268

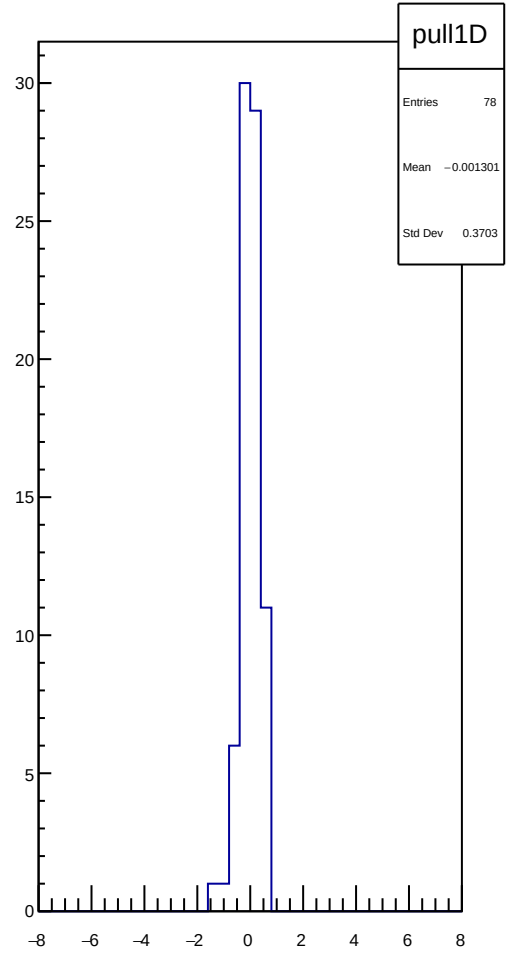

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 4.065 / 77
p0 −8.537 ± 0.7739
pull
Entries 78
Mean −9.228
Std Dev 52.36

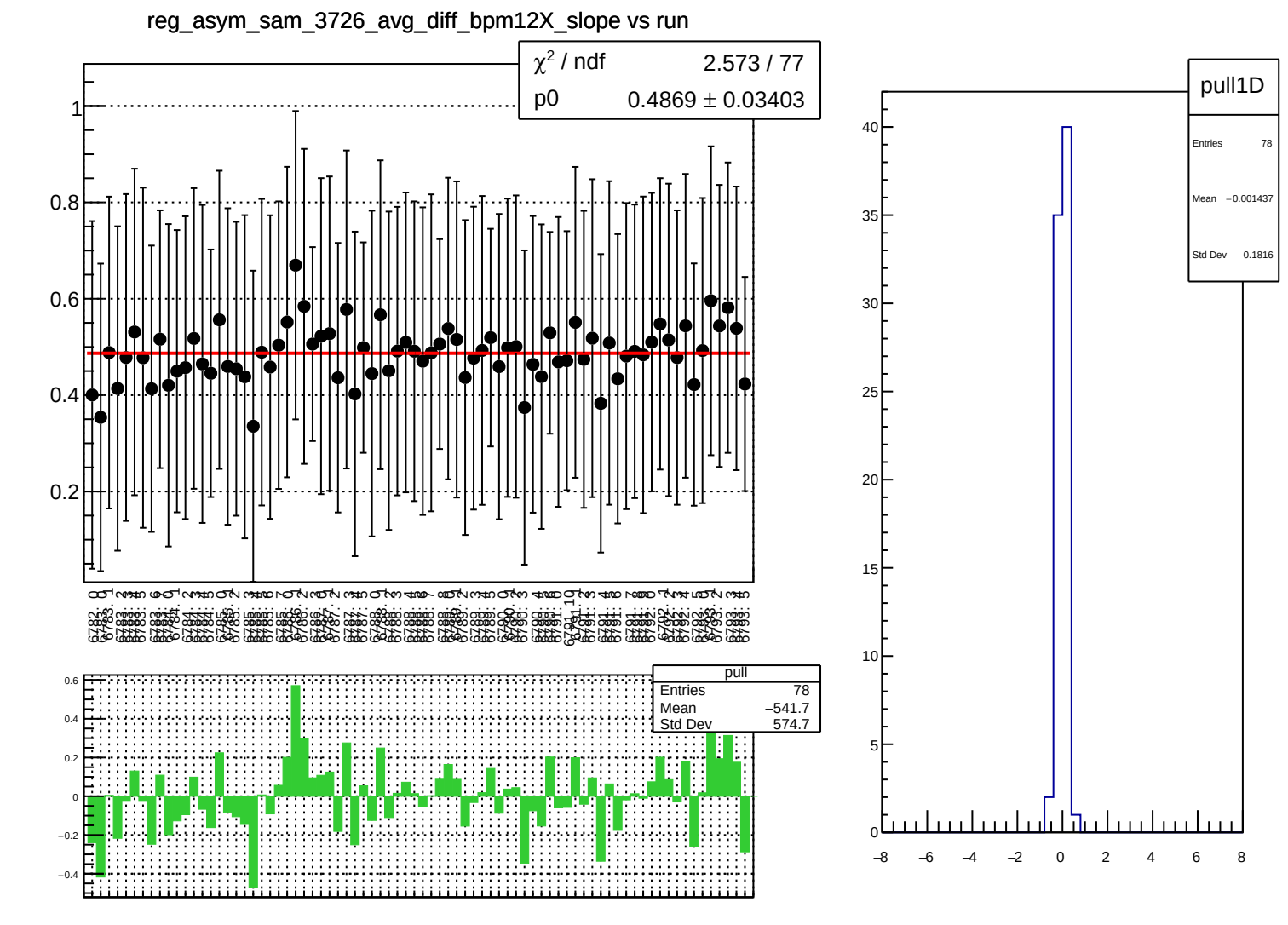

pull1D
Entries 78
Mean 0.006823
Std Dev 0.2282

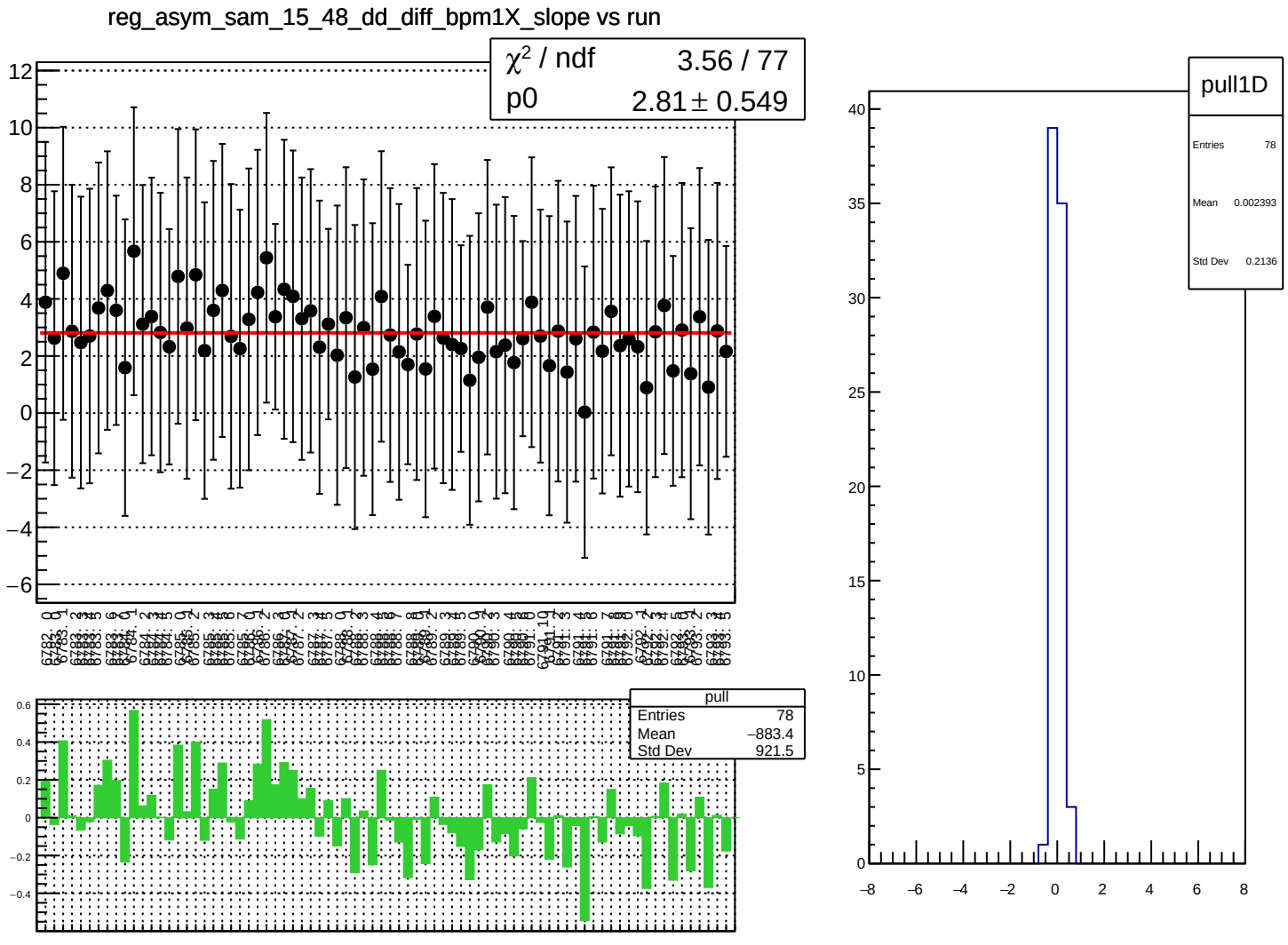

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.272 / 77
p0 2.985 ± 0.3662
pull
Entries 78
Mean −326.5
Std Dev 361.7
pull1D
Entries 78
Mean −0.008186
Std Dev 0.3255

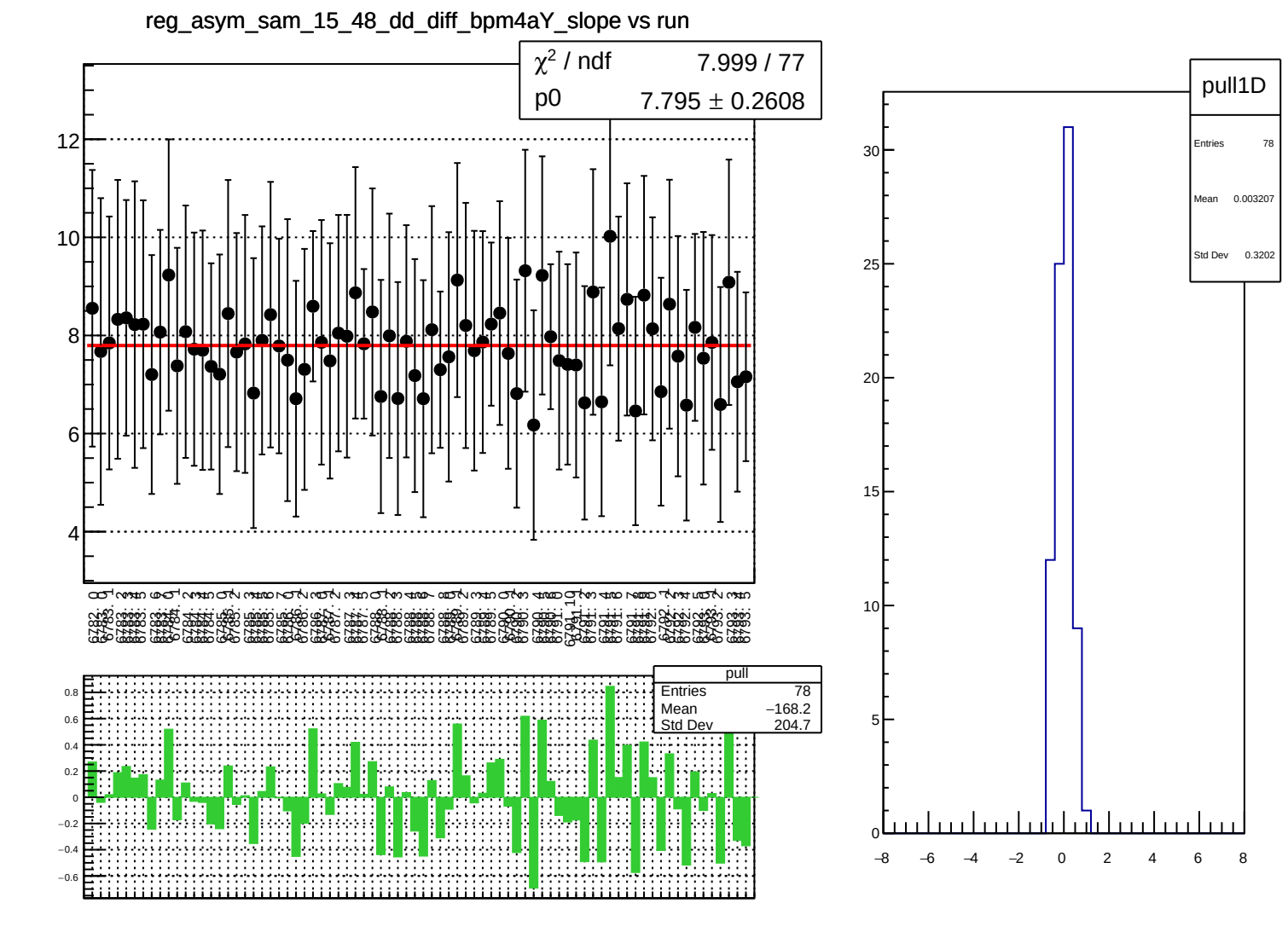

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.455 / 77
p0 −62.63 ± 0.7226
pull
Entries 78
Mean −78.12
Std Dev 105.5
pull1D
Entries 78
Mean −0.0159
Std Dev 0.3289

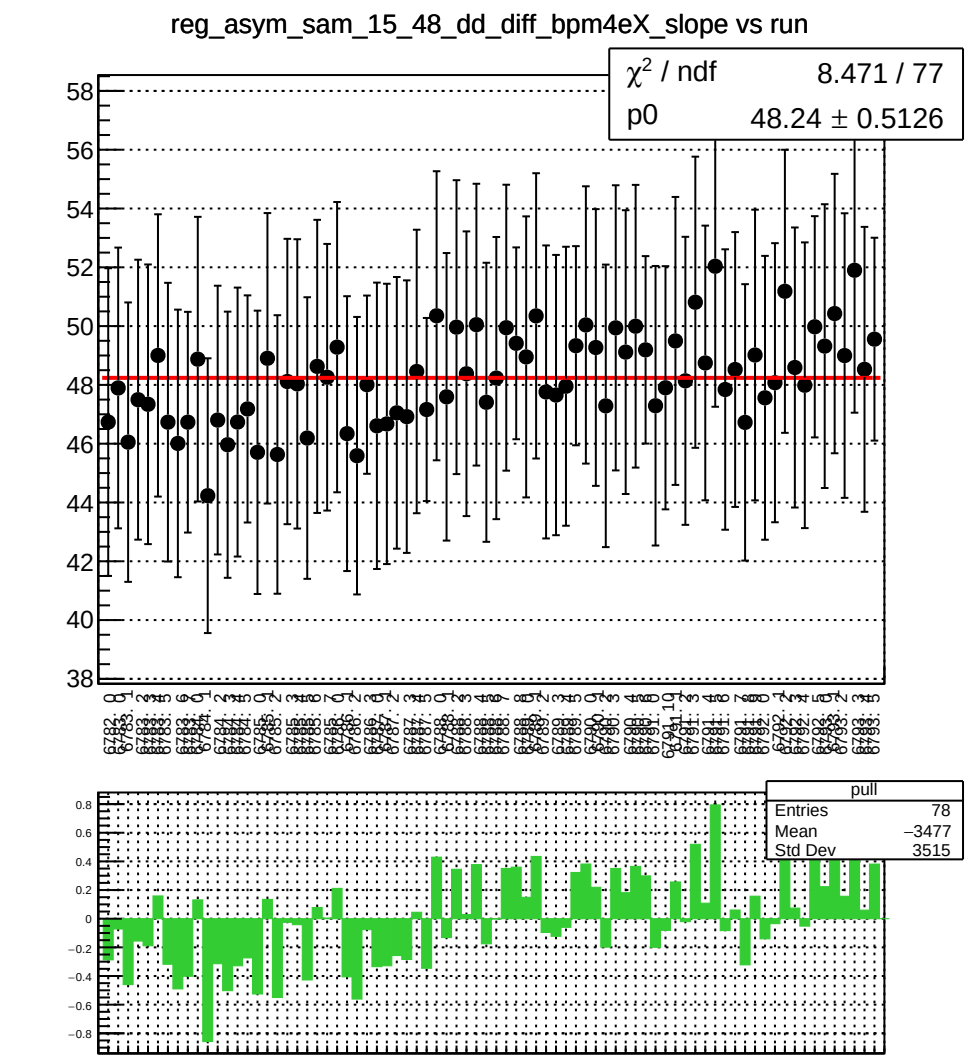

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.7 / 77
p0 −15.66 ± 0.5056
pull
Entries 78
Mean −35.28
Std Dev 130

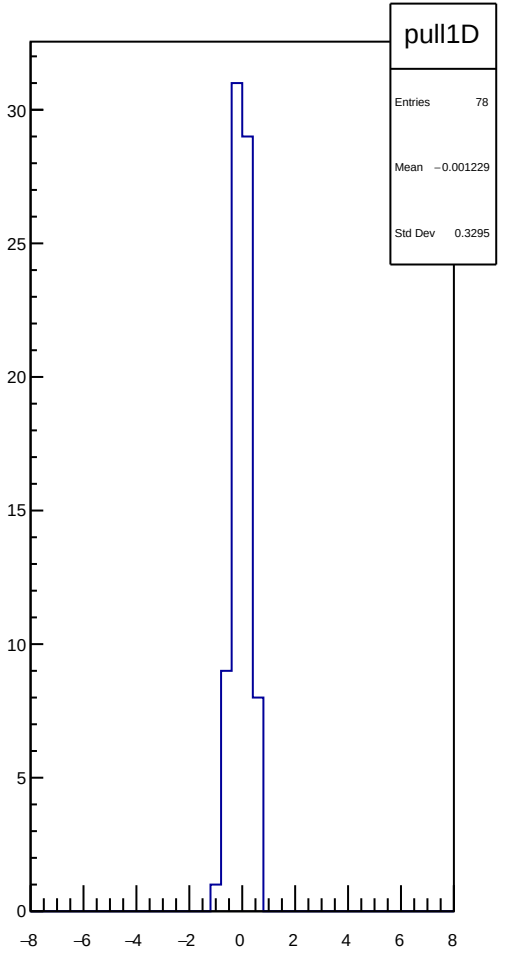

pull1D
Entries 78
Mean −0.001301
Std Dev 0.3703

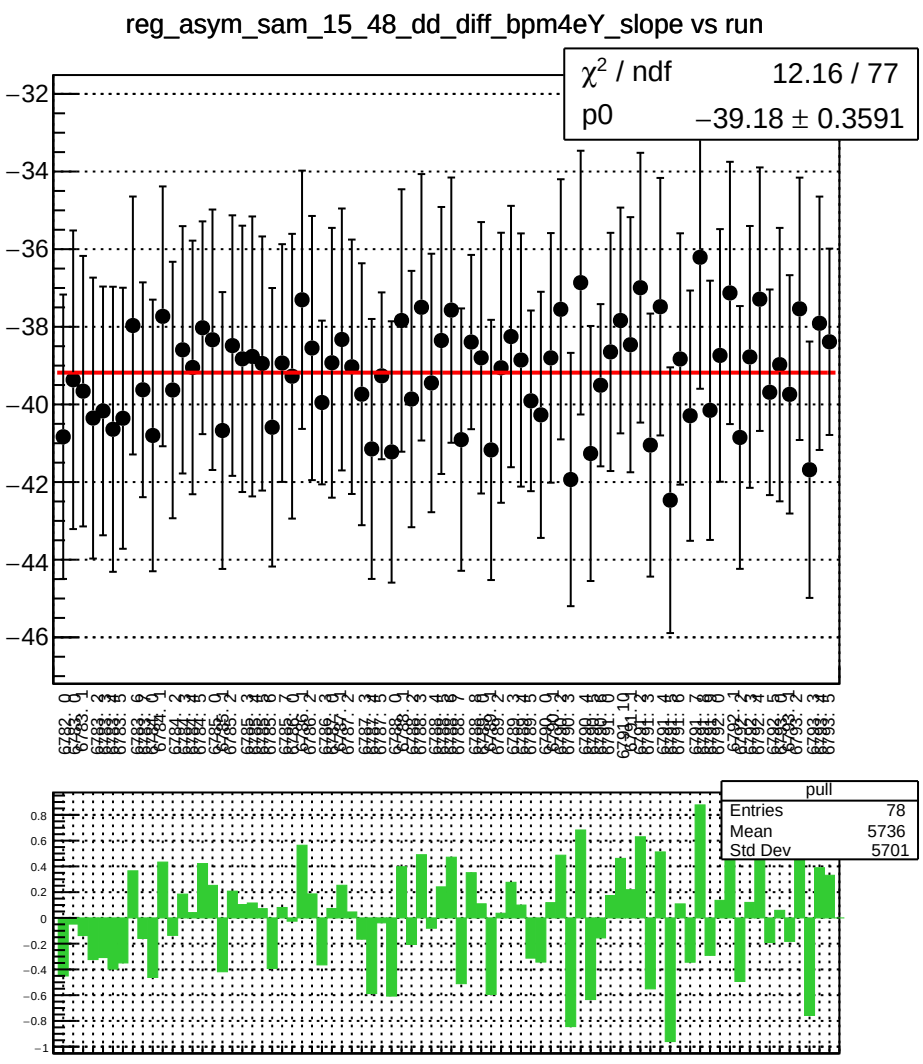

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 2.573 / 77
p0 0.4869 ± 0.03403
pull
Entries 78
Mean −541.7
Std Dev 574.7
pull1D
Entries 78
Mean −0.001437
Std Dev 0.1816

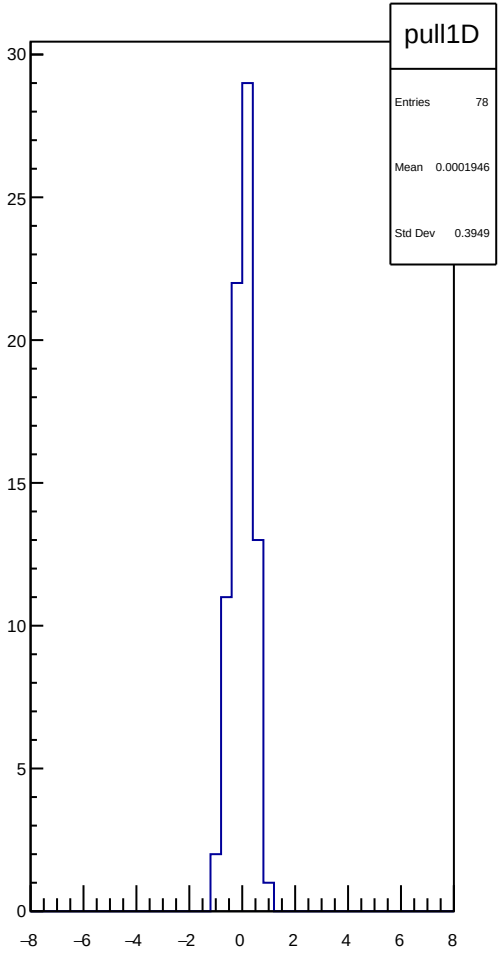

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.56 / 77
p0 2.81 ± 0.549
pull
Entries 78
Mean −883.4
Std Dev 921.5
pull1D
Entries 78
Mean 0.002393
Std Dev 0.2136

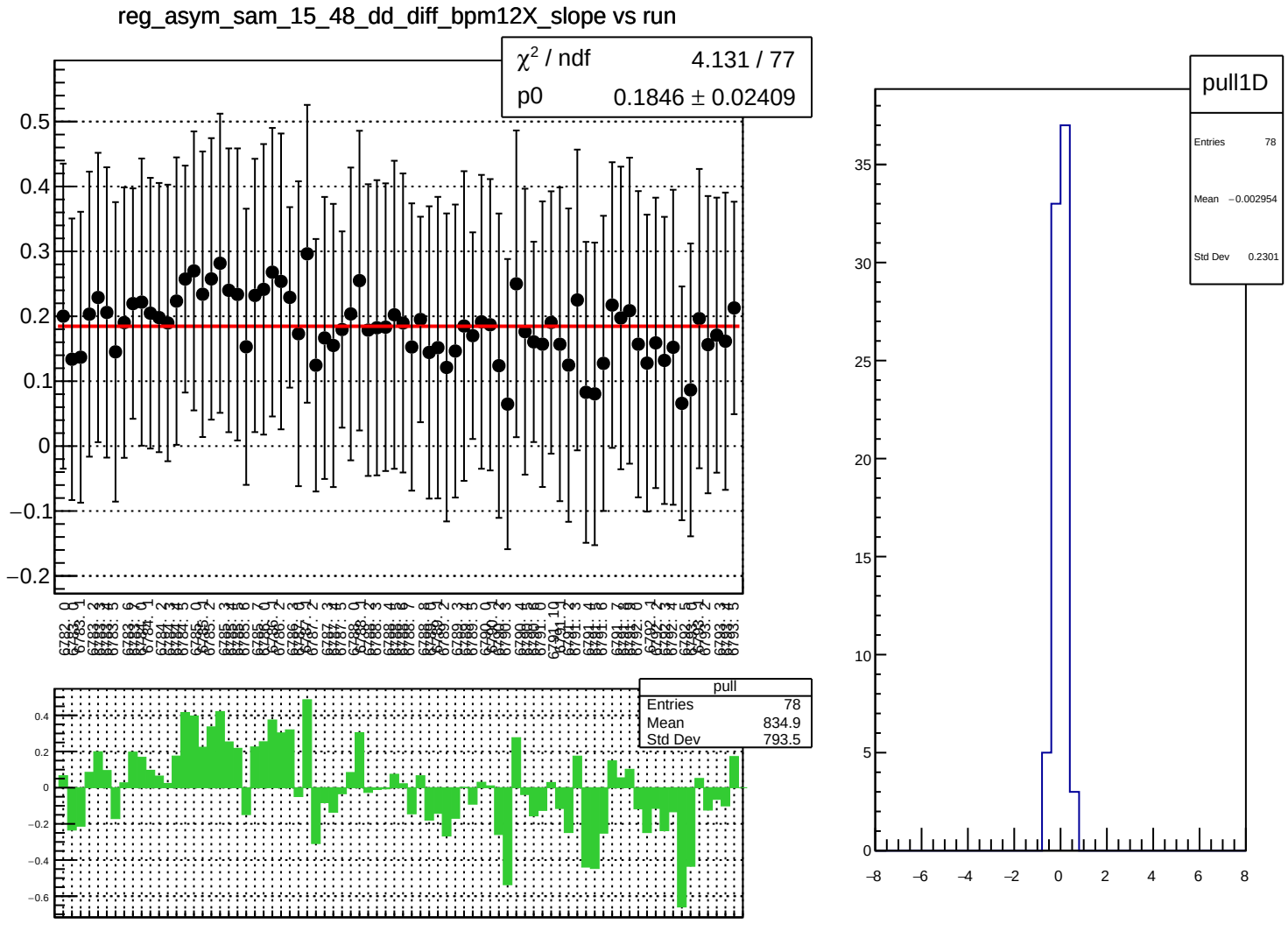

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.999 / 77
p0 7.795 ± 0.2608
pull
Entries 78
Mean −168.2
Std Dev 204.7
pull1D
Entries 78
Mean 0.003207
Std Dev 0.3202

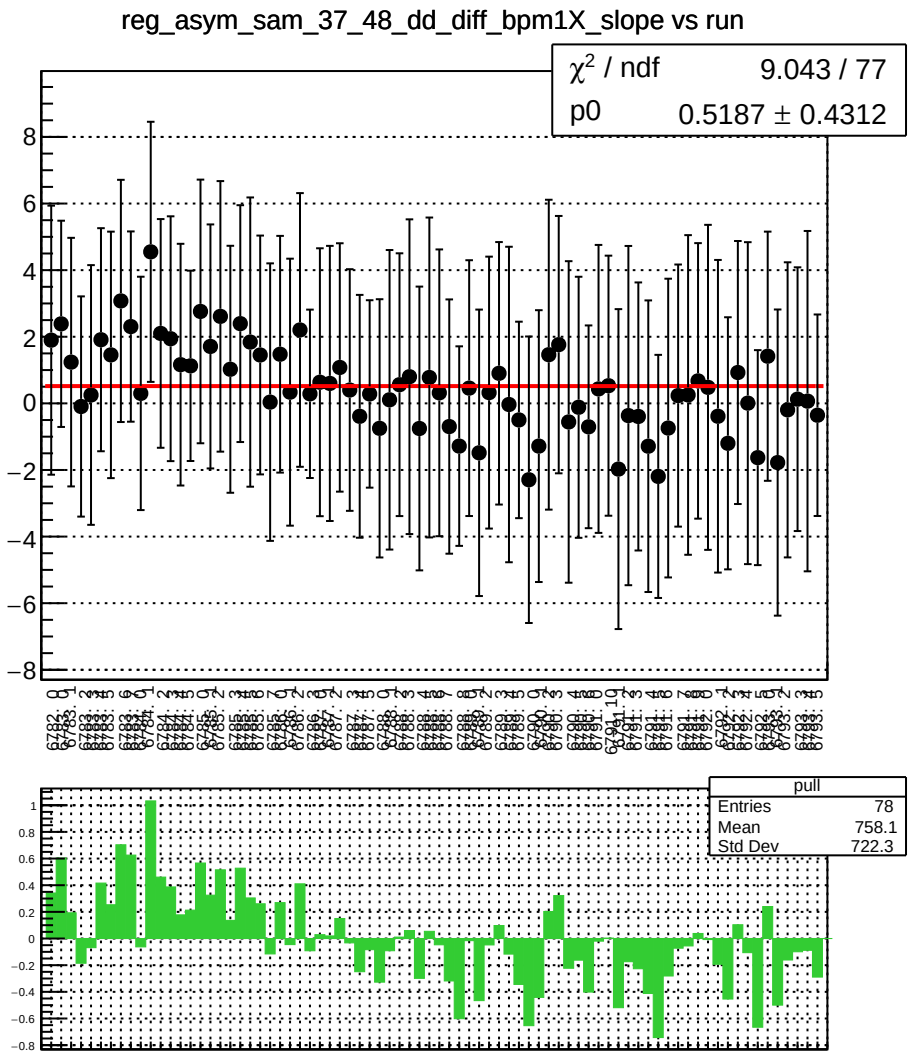

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.471 / 77
p0 48.24 ± 0.5126
pull
Entries 78
Mean −3477
Std Dev 3515

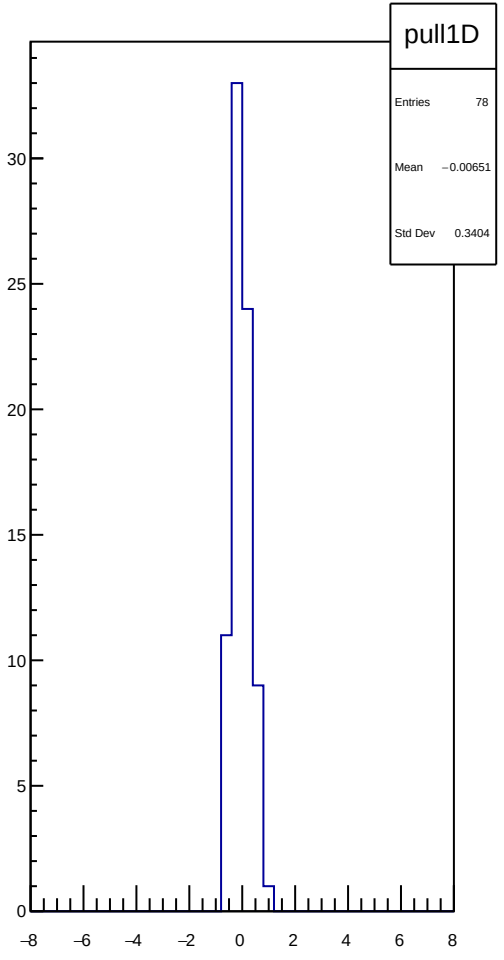

pull1D
Entries 78
Mean −0.001229
Std Dev 0.3295

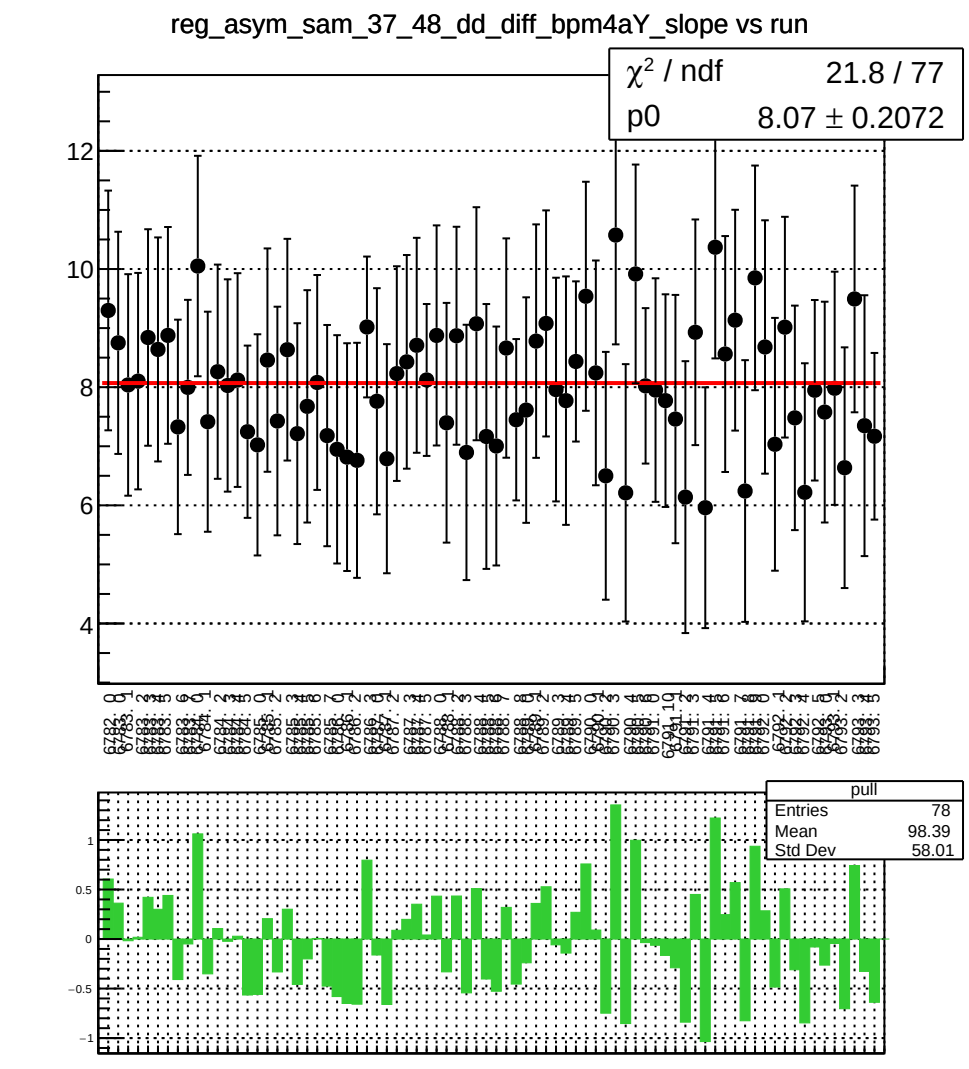

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.16 / 77
p0 −39.18 ± 0.3591
pull
Entries 78
Mean 5736
Std Dev 5701

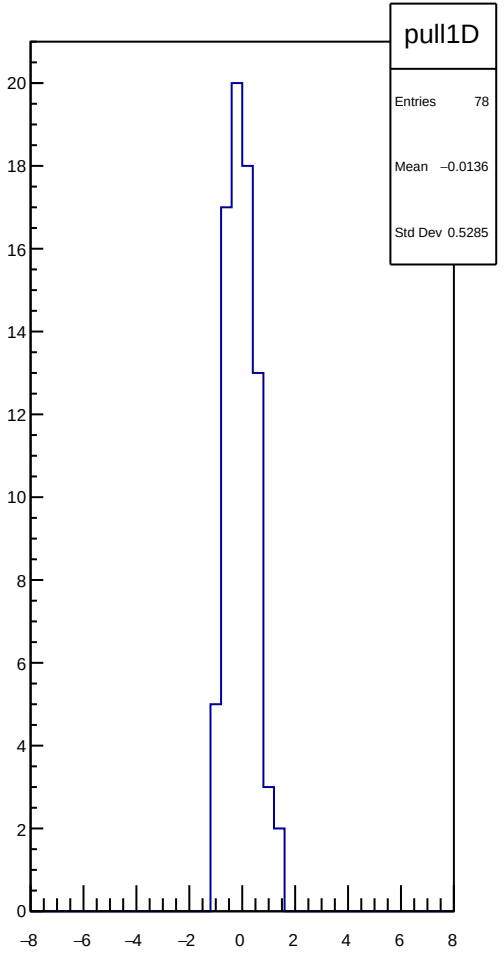

pull1D
Entries 78
Mean 0.0001946
Std Dev 0.3949

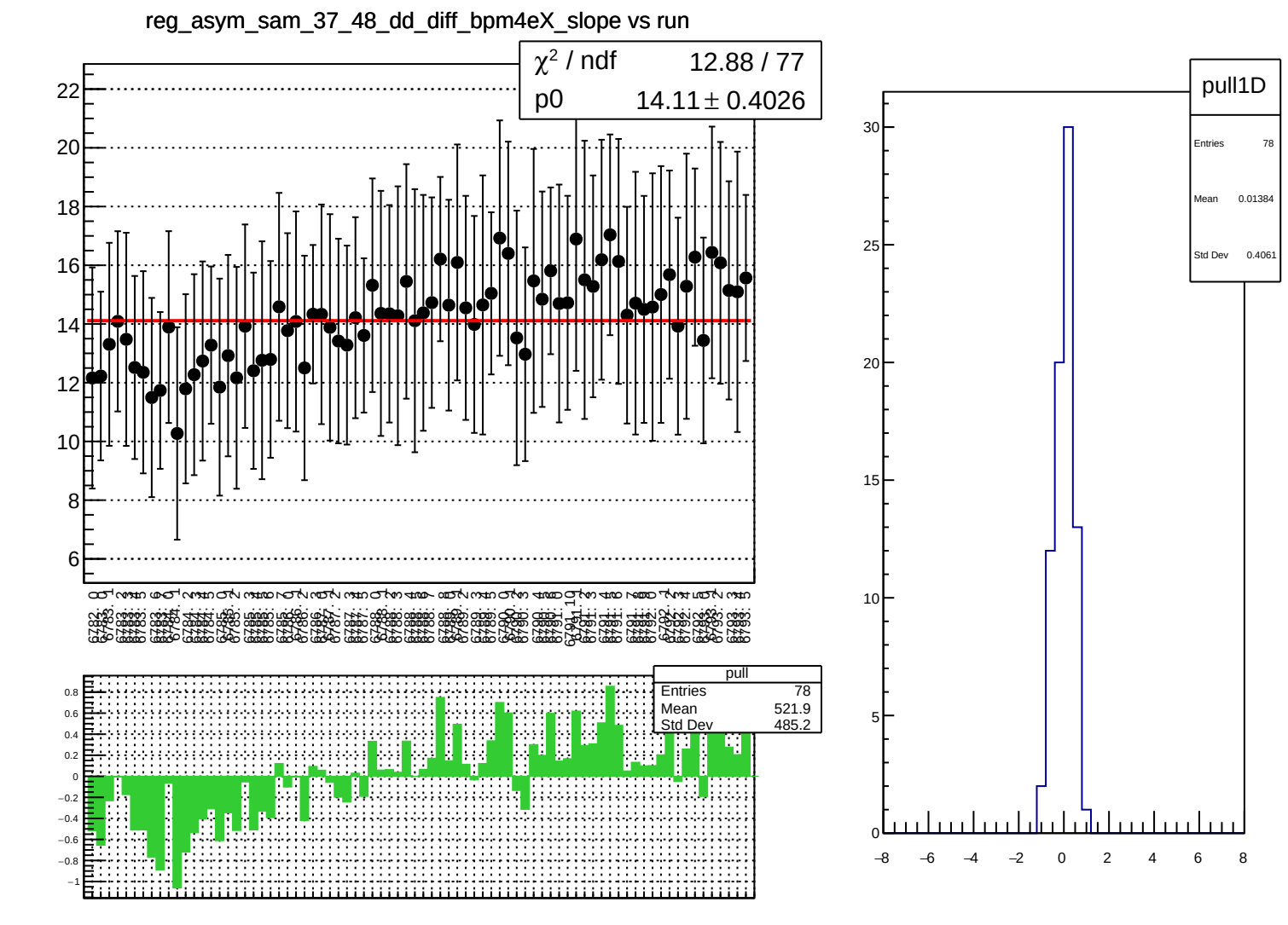

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.131 / 77
p0 0.1846 ± 0.02409
pull
Entries 78
Mean 834.9
Std Dev 793.5
pull1D
Entries 78
Mean −0.002954
Std Dev 0.2301

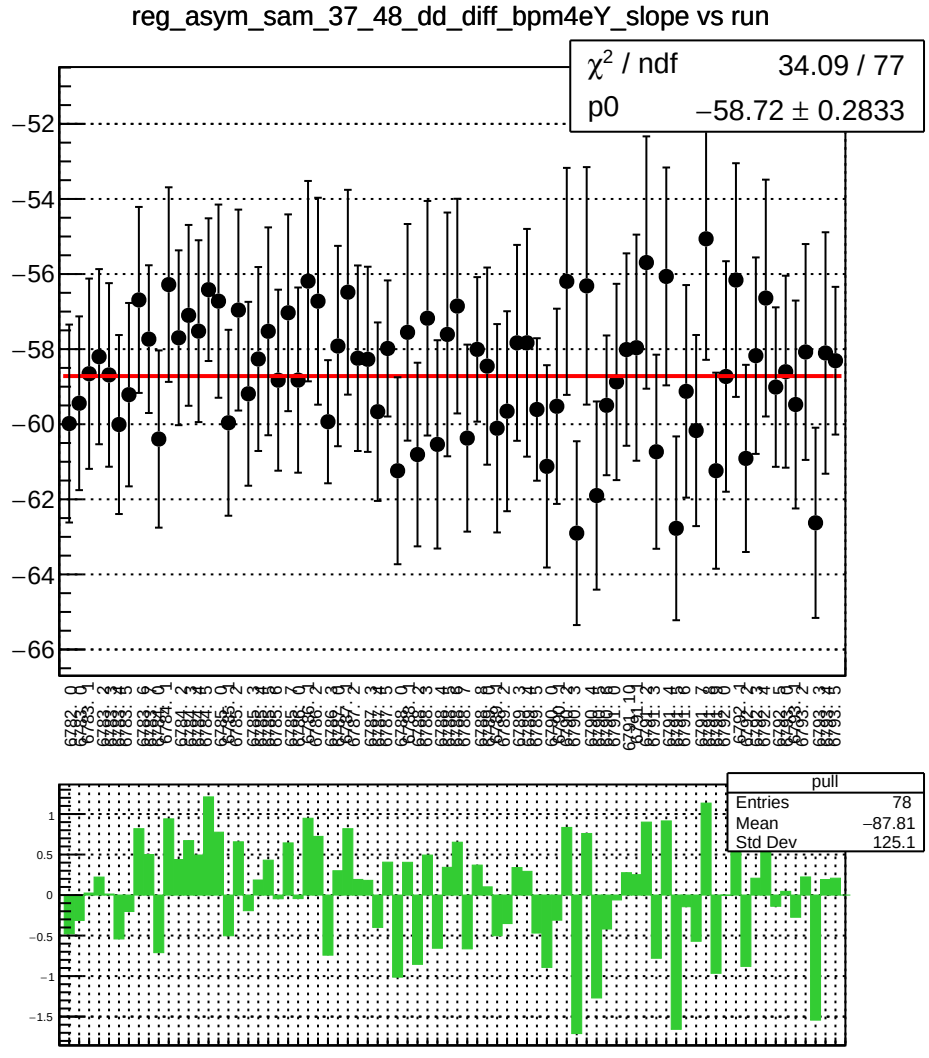

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 9.043 / 77
p0 0.5187 ± 0.4312
pull
Entries 78
Mean 758.1
Std Dev 722.3

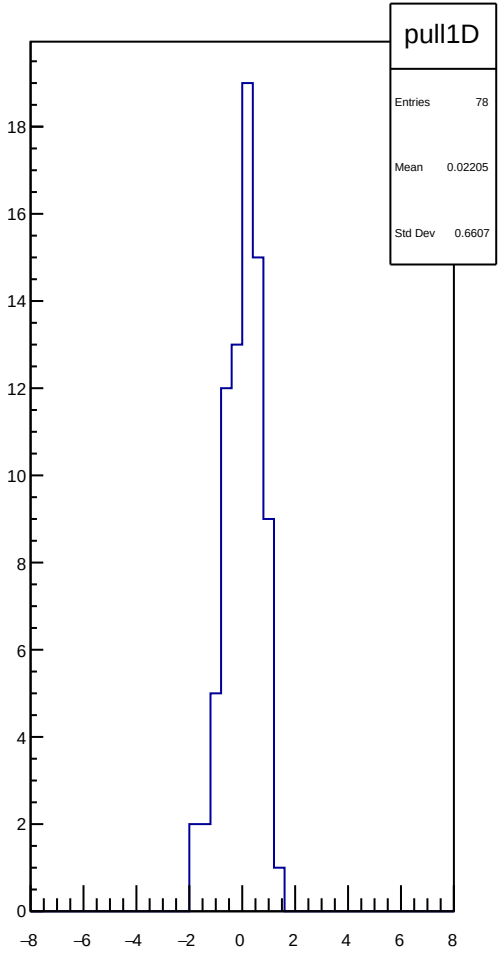

pull1D
Entries 78
Mean −0.00651
Std Dev 0.3404

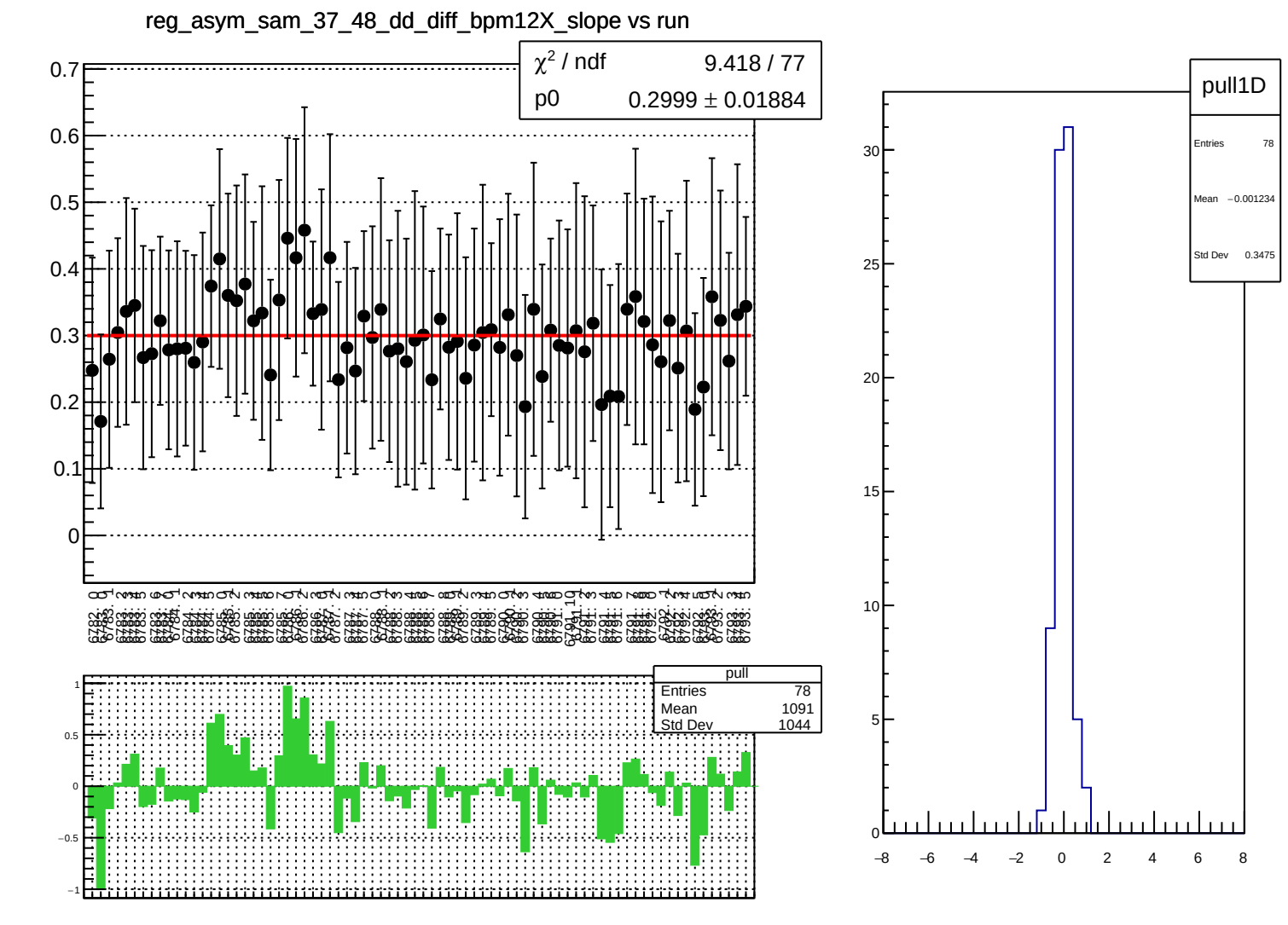

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.8 / 77
p0 8.07 ± 0.2072
pull
Entries 78
Mean 98.39
Std Dev 58.01

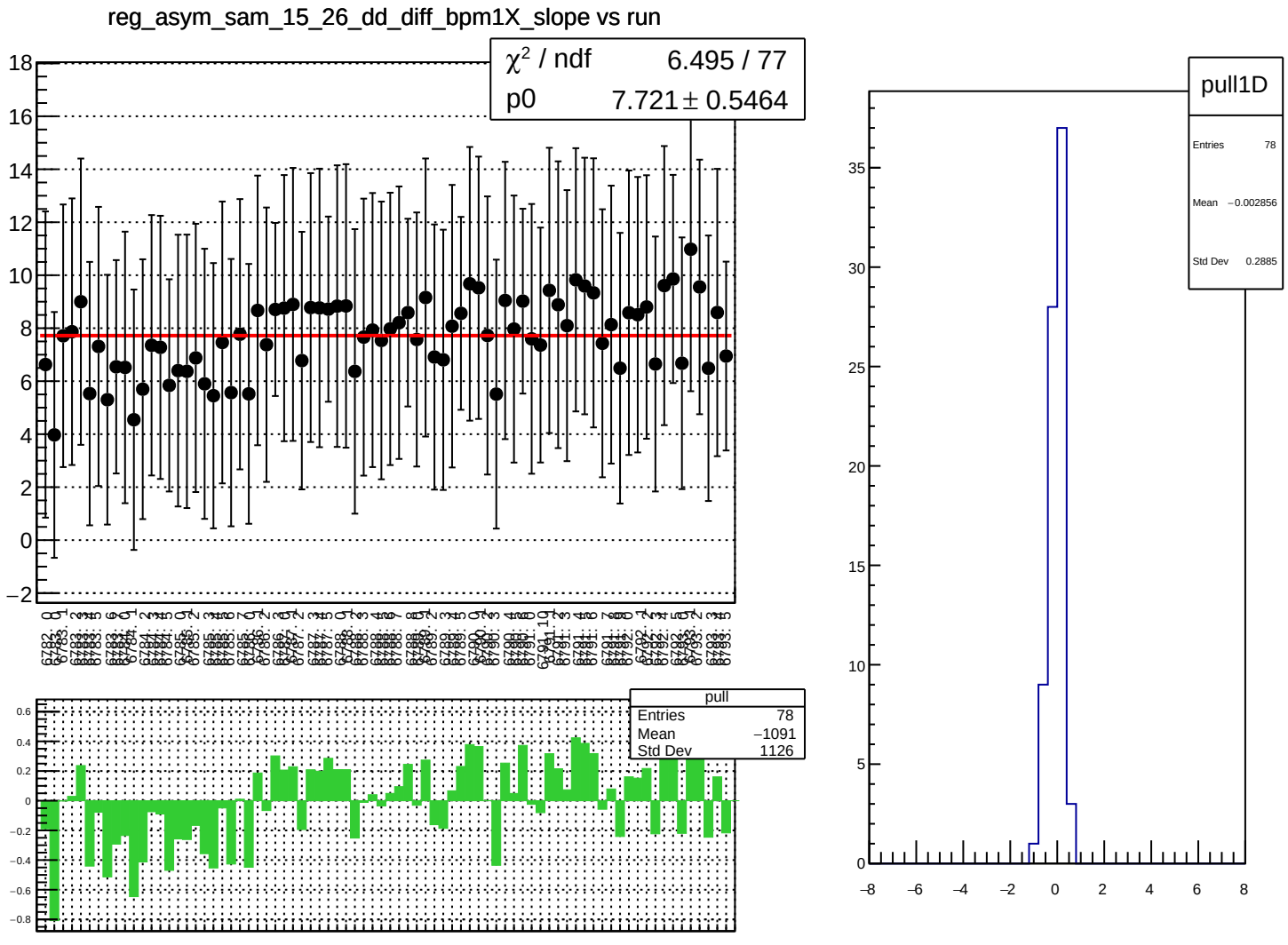

pull1D
Entries 78
Mean −0.0136
Std Dev 0.5285

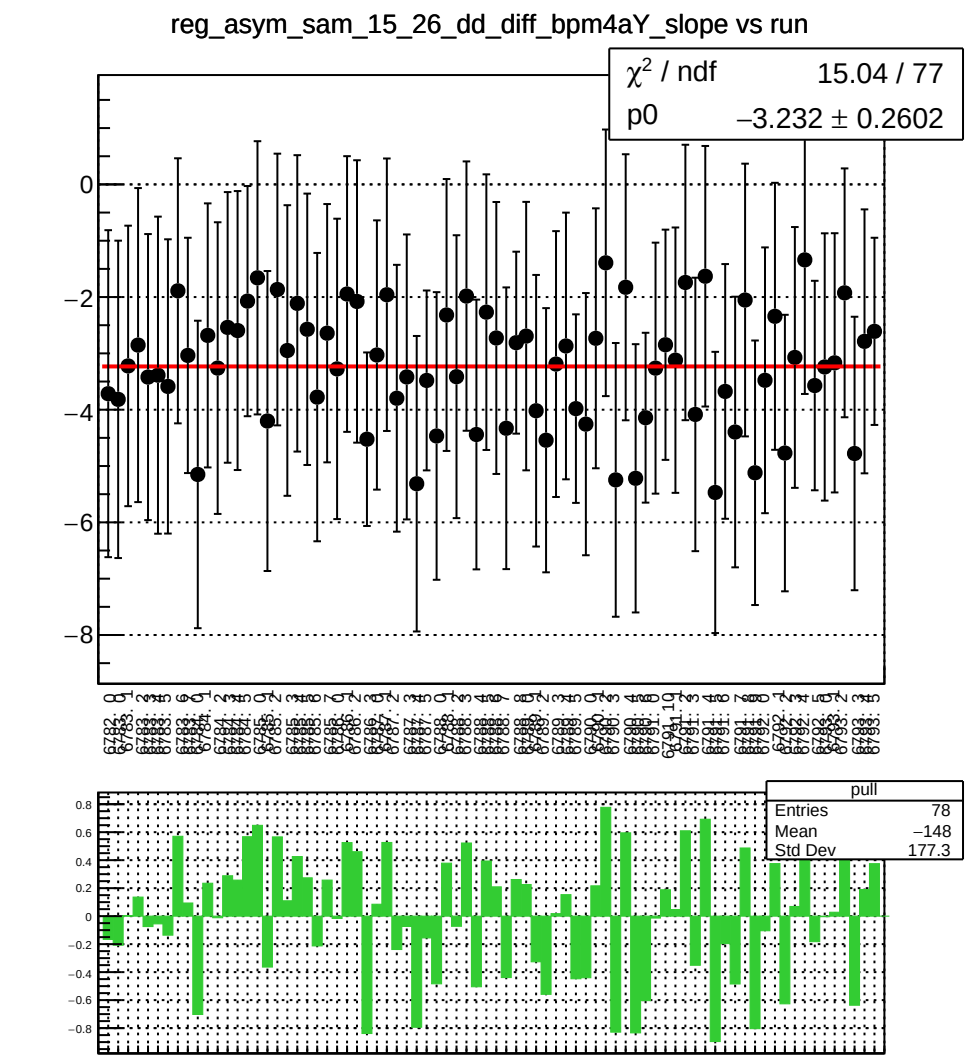

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.88 / 77
p0 14.11 ± 0.4026
pull
Entries 78
Mean 521.9
Std Dev 485.2
pull1D
Entries 78
Mean 0.01384
Std Dev 0.4061

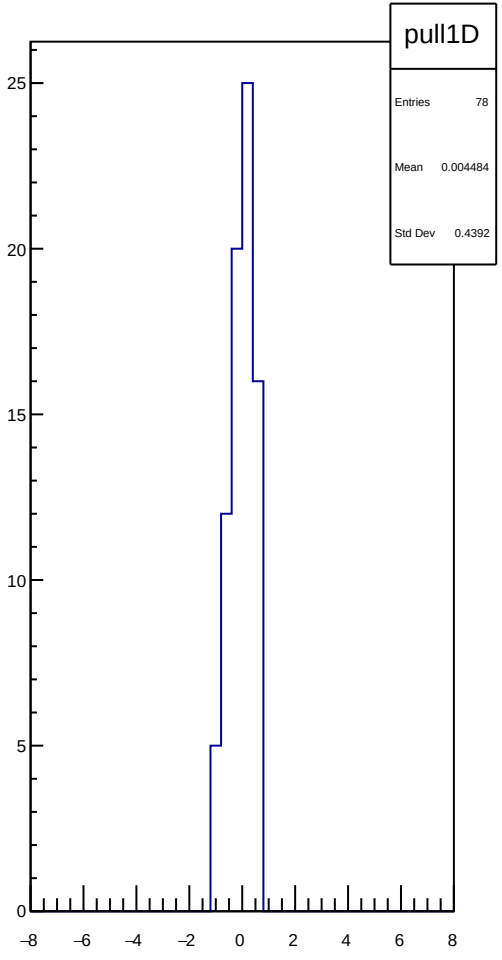

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.09 / 77
p0 −58.72 ± 0.2833
pull
Entries 78
Mean −87.81
Std Dev 125.1

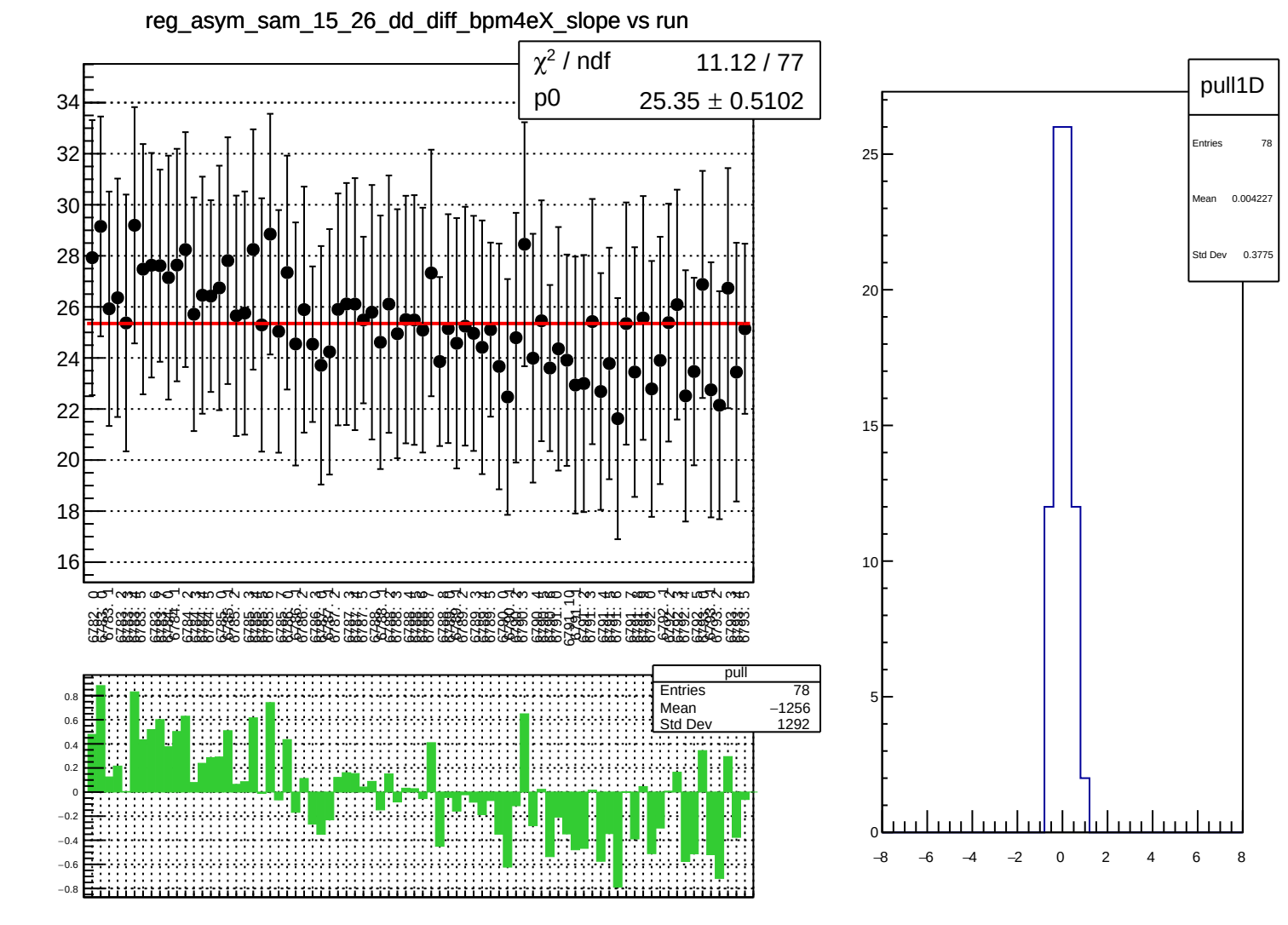

pull1D
Entries 78
Mean 0.02205
Std Dev 0.6607

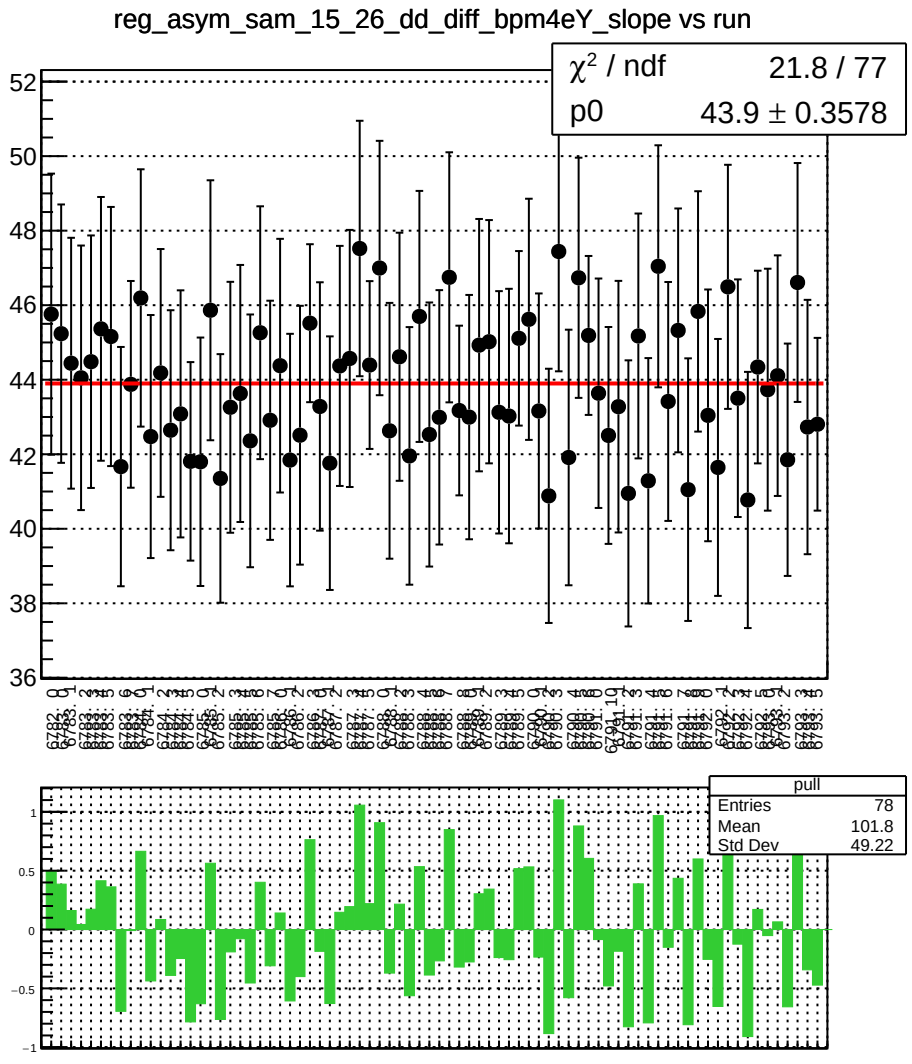

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 9.418 / 77
p0 0.2999 ± 0.01884
pull
Entries 78
Mean 1091
Std Dev 1044
pull1D
Entries 78
Mean −0.001234
Std Dev 0.3475

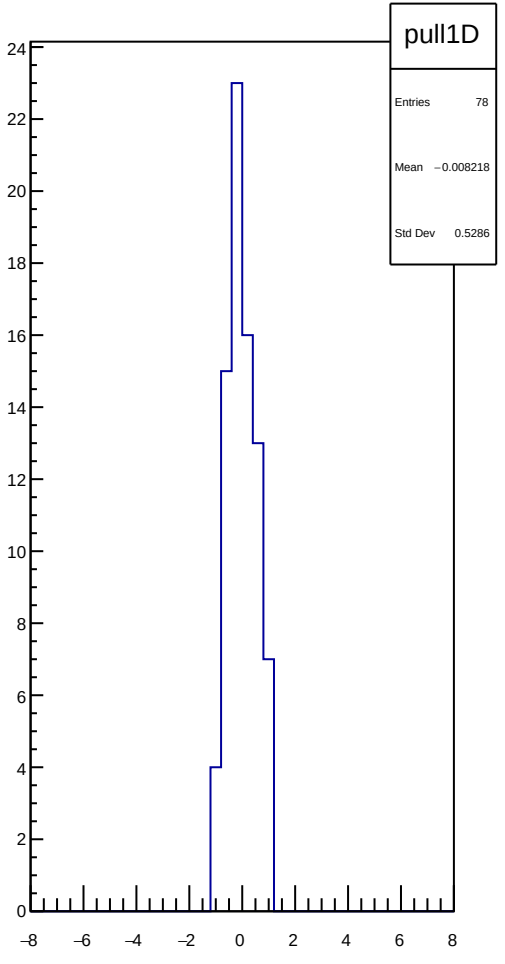

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 6.495 / 77
p0 7.721 ± 0.5464
pull
Entries 78
Mean −1091
Std Dev 1126
pull1D
Entries 78
Mean −0.002856
Std Dev 0.2885

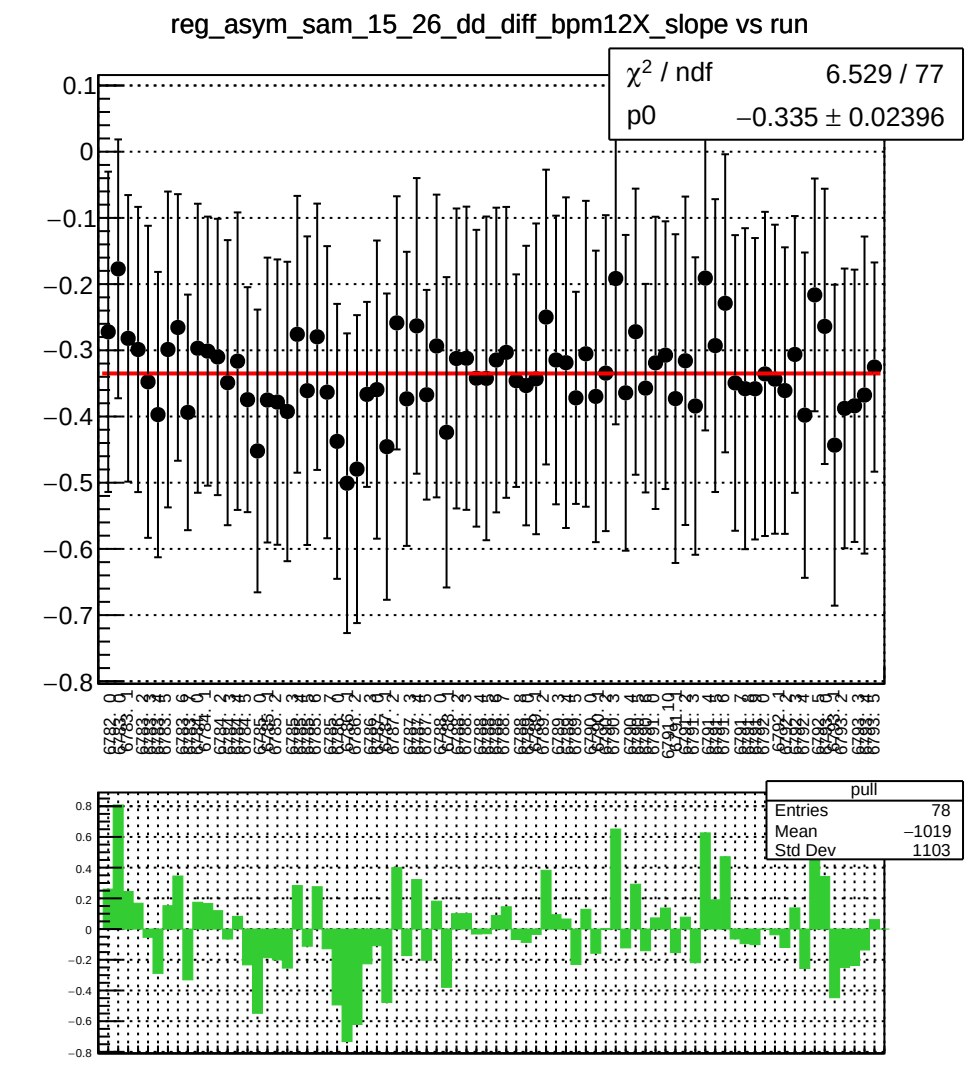

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.04 / 77
p0 −3.232 ± 0.2602
pull
Entries 78
Mean −148
Std Dev 177.3

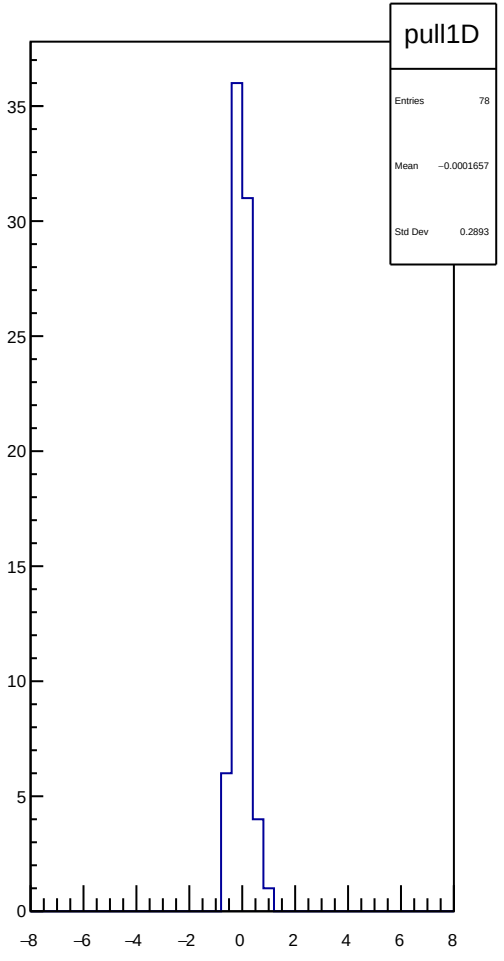

pull1D
Entries 78
Mean 0.004484
Std Dev 0.4392

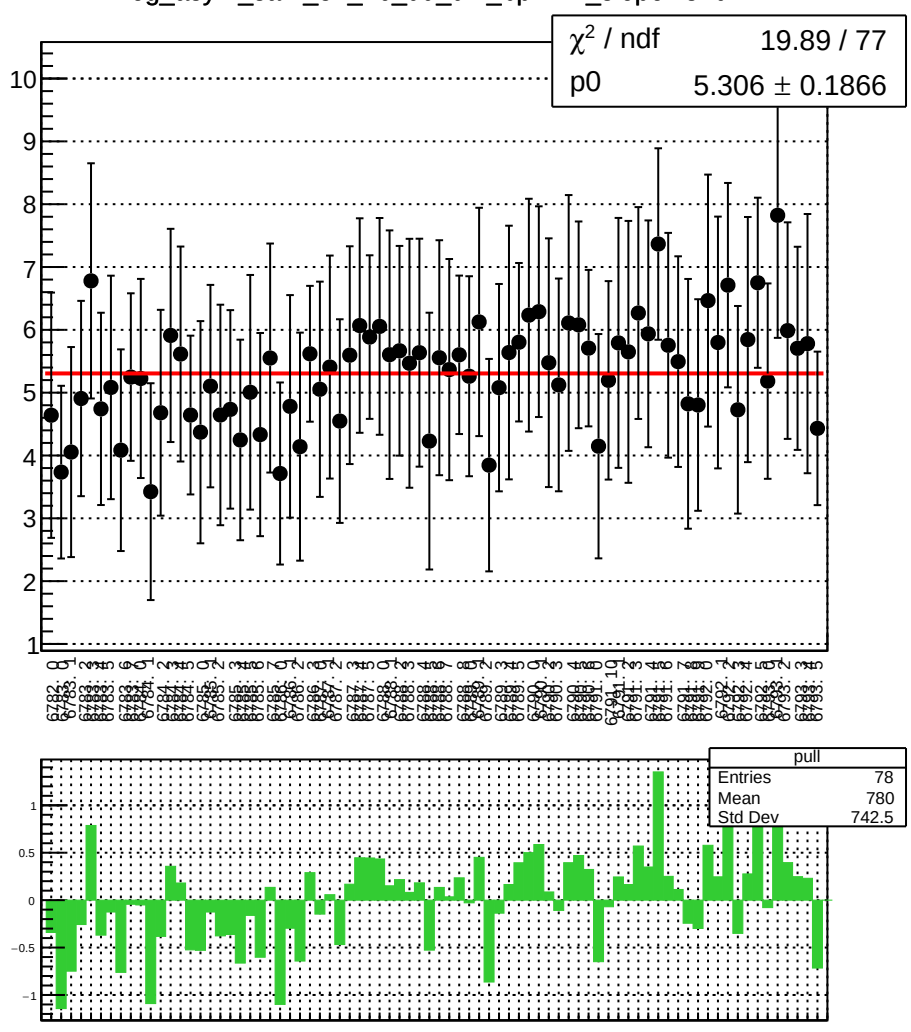

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.12 / 77
p0 25.35 ± 0.5102
pull
Entries 78
Mean −1256
Std Dev 1292
pull1D
Entries 78
Mean 0.004227
Std Dev 0.3775

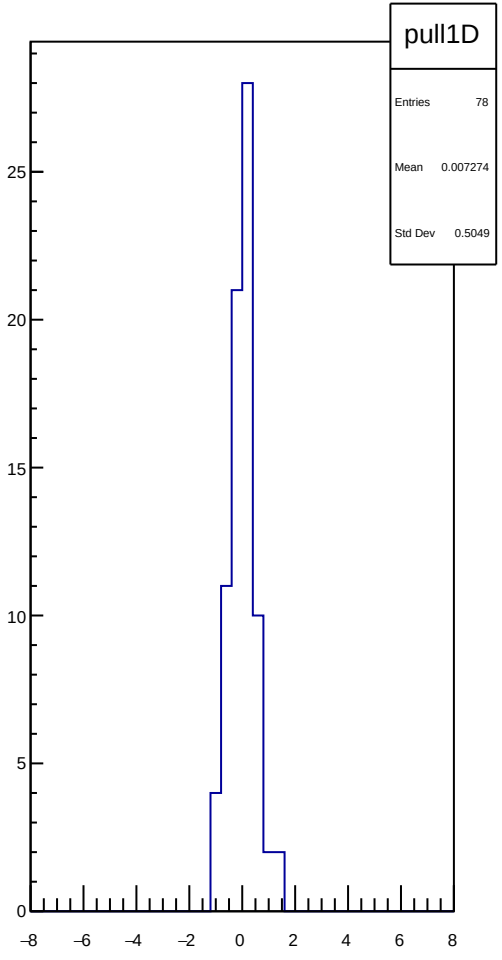

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.8 / 77
p0 43.9 ± 0.3578
pull
Entries 78
Mean 101.8
Std Dev 49.22

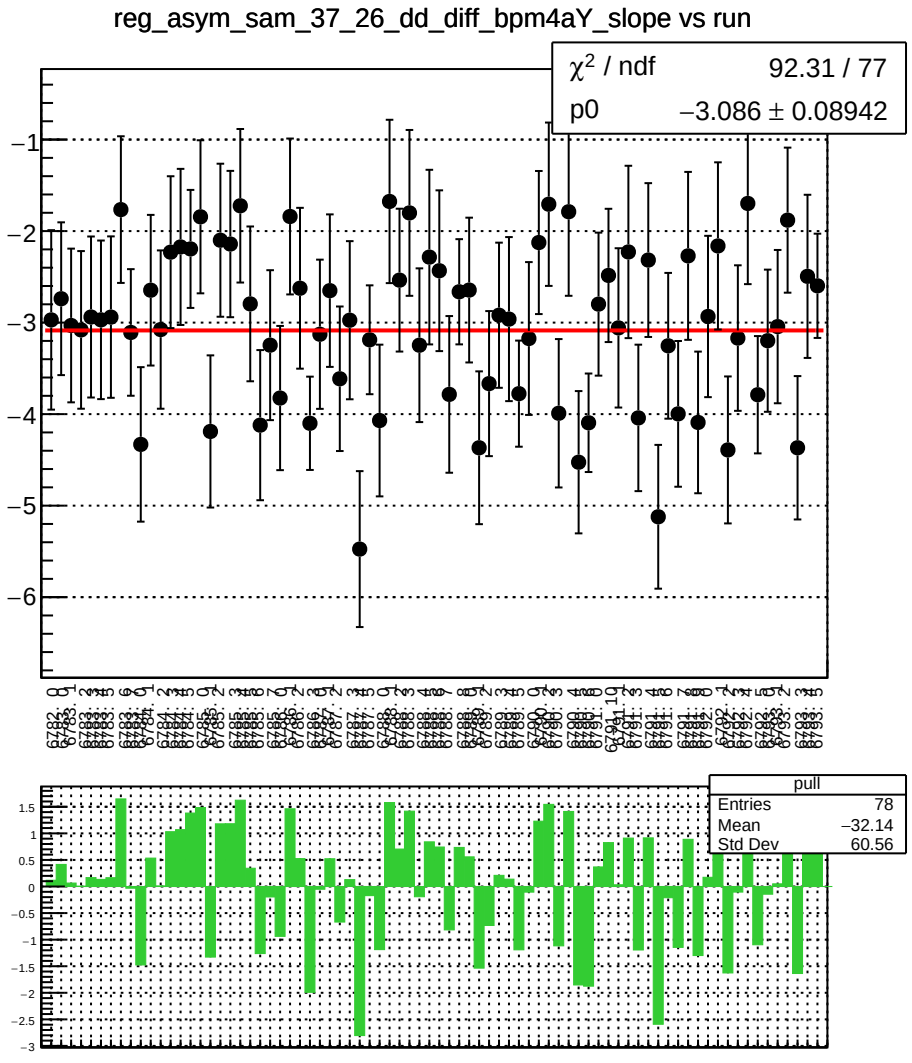

pull1D
Entries 78
Mean −0.008218
Std Dev 0.5286

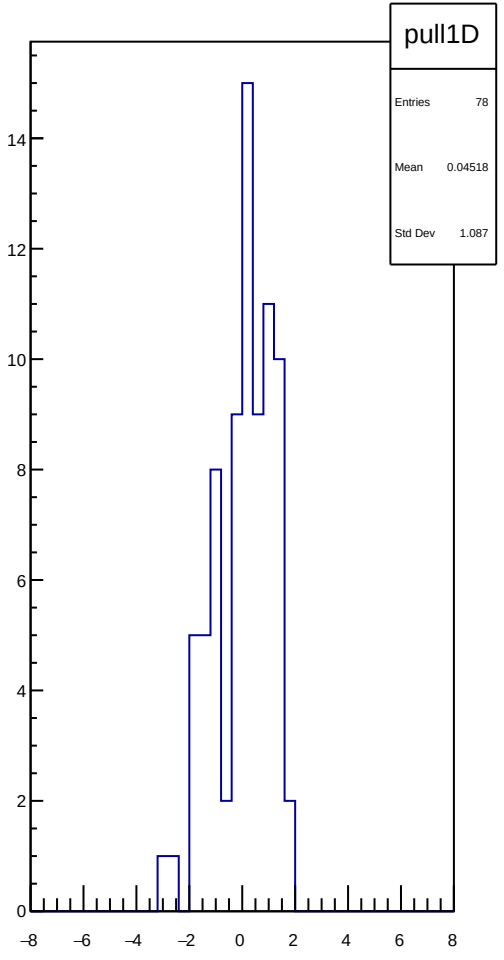

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 6.529 / 77
p0 −0.335 ± 0.02396
pull
Entries 78
Mean −1019
Std Dev 1103

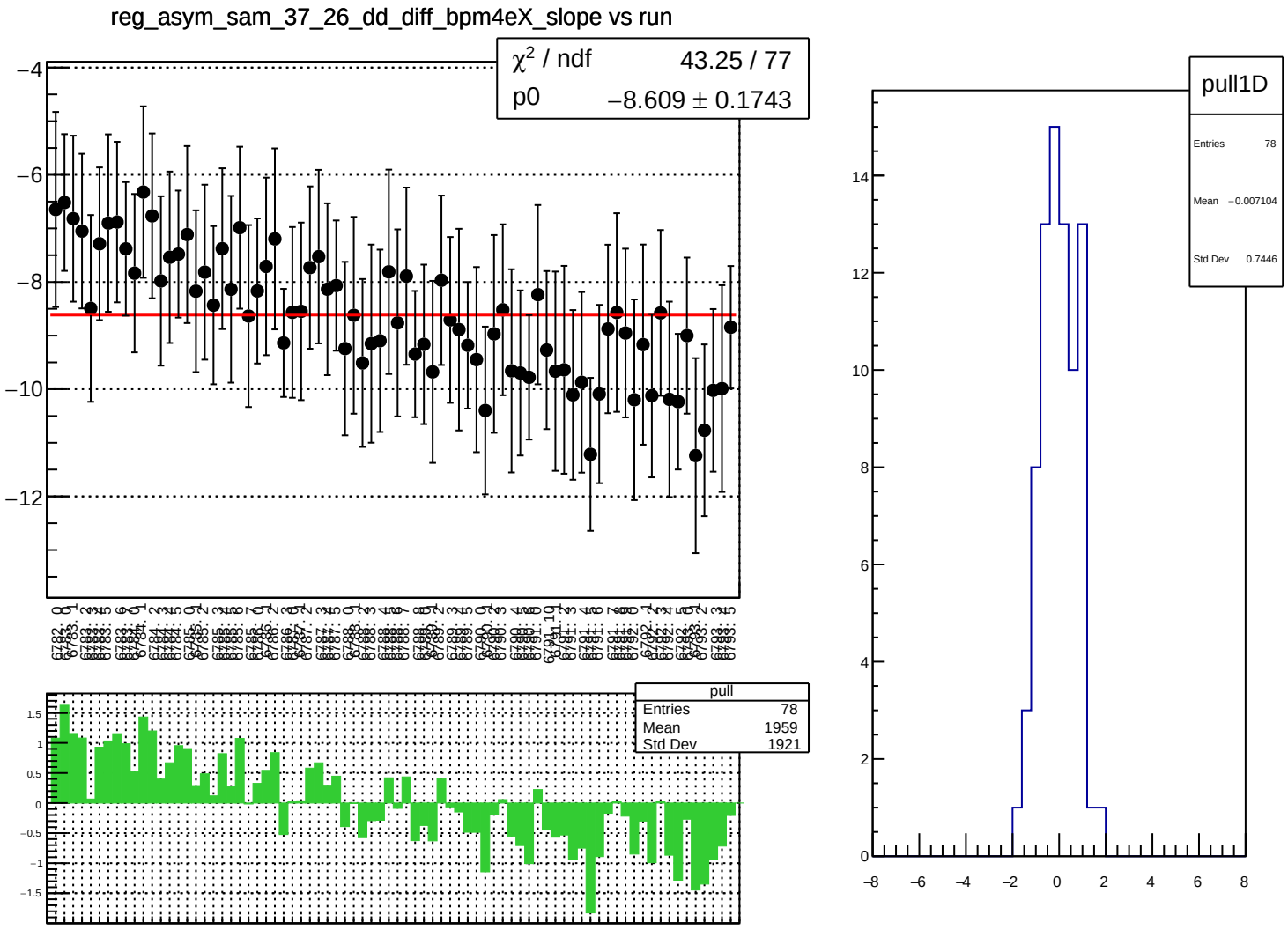

pull1D
Entries 78
Mean −0.0001657
Std Dev 0.2893

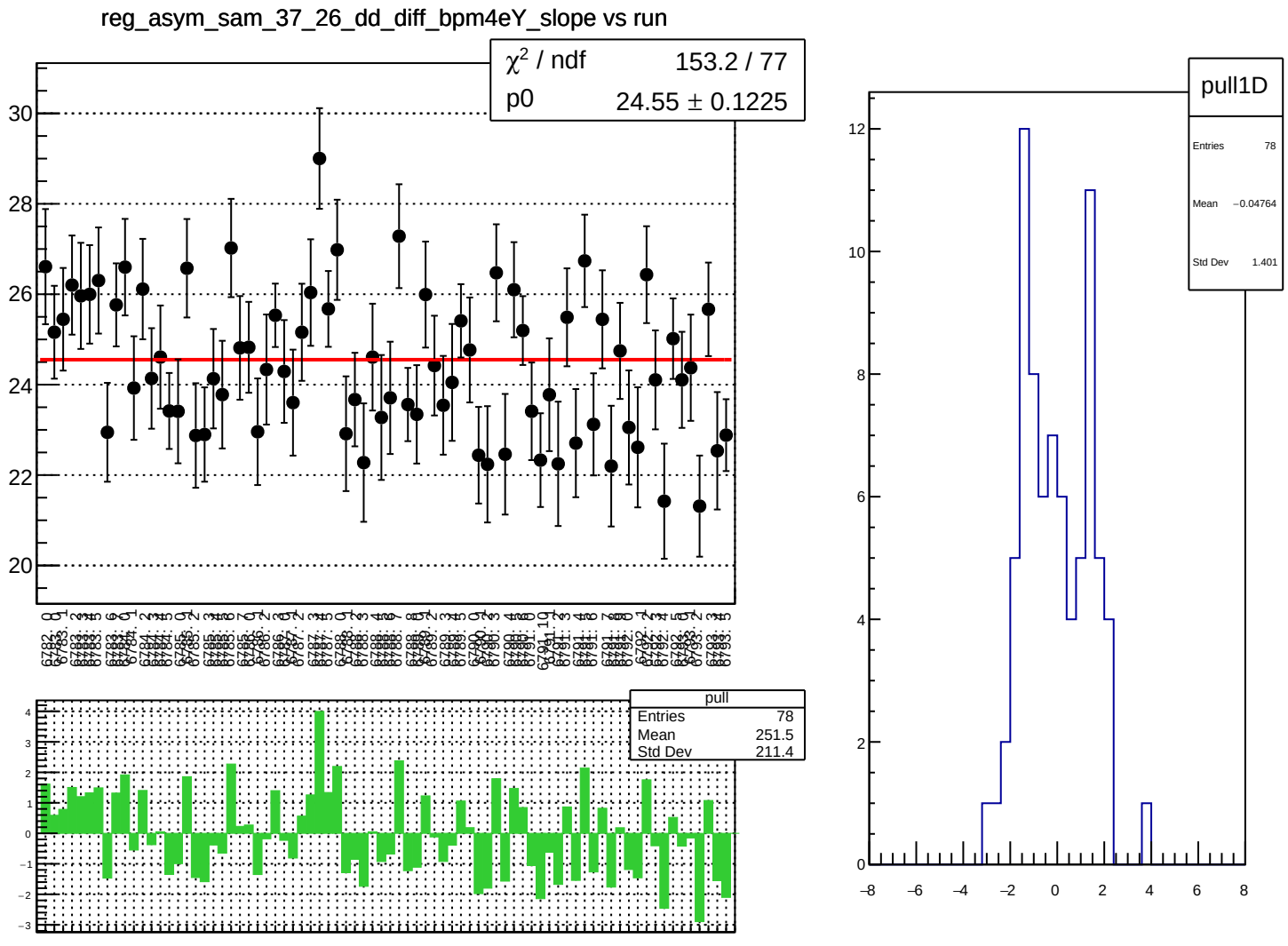

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 19.89 / 77
p0 5.306 ± 0.1866
pull
Entries 78
Mean 780
Std Dev 742.5

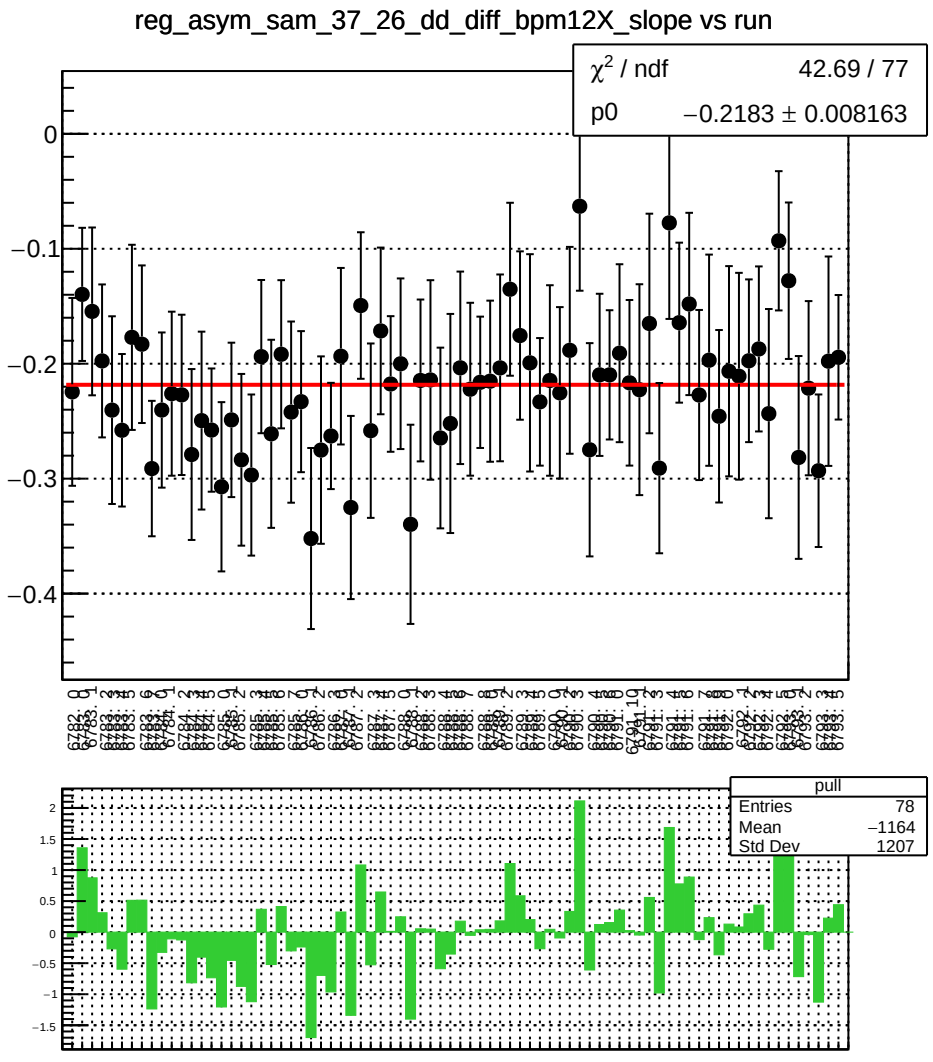

pull1D
Entries 78
Mean 0.007274
Std Dev 0.5049

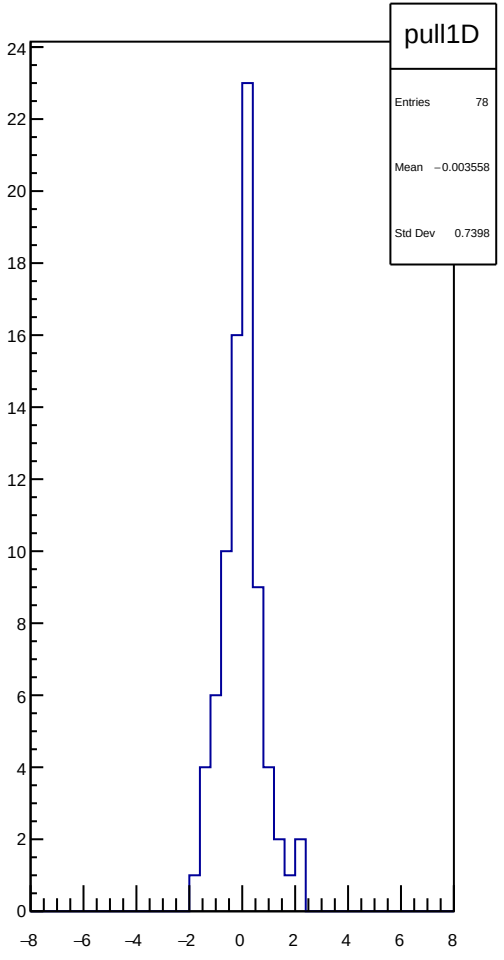

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 92.31 / 77
p0 −3.086 ± 0.08942
pull
Entries 78
Mean −32.14
Std Dev 60.56

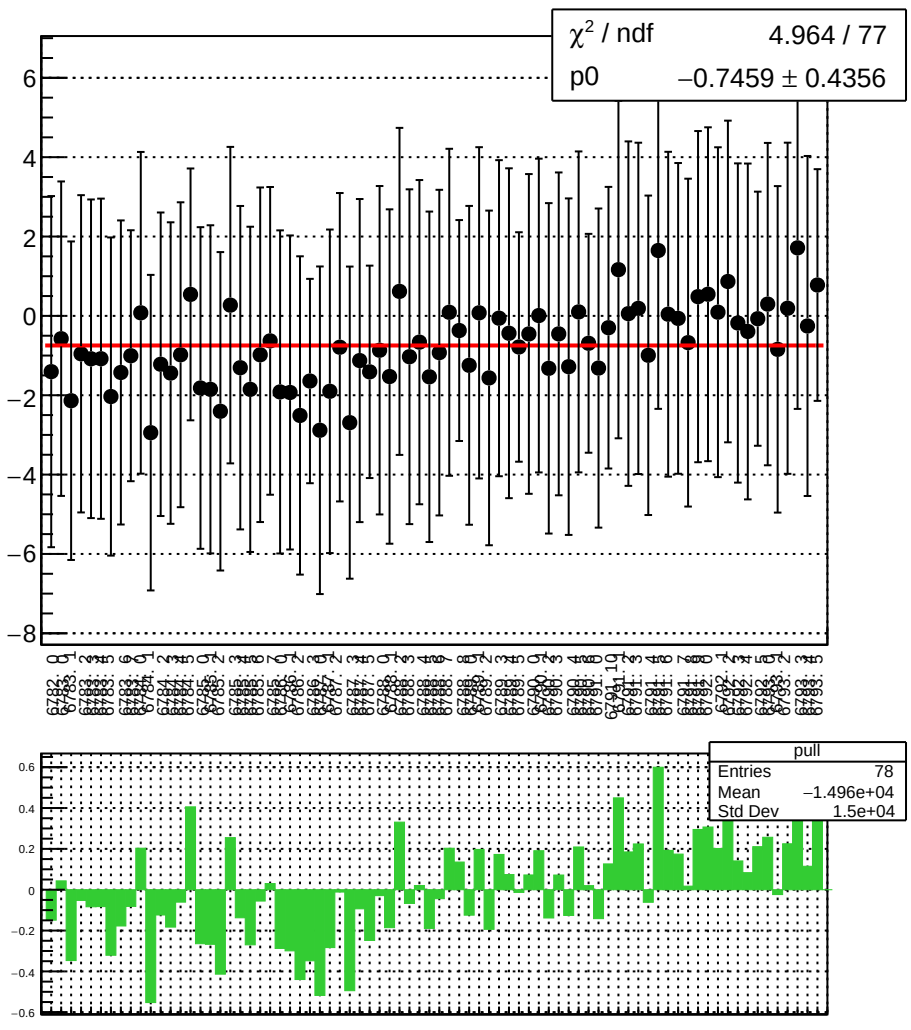

pull1D
Entries 78
Mean 0.04518
Std Dev 1.087

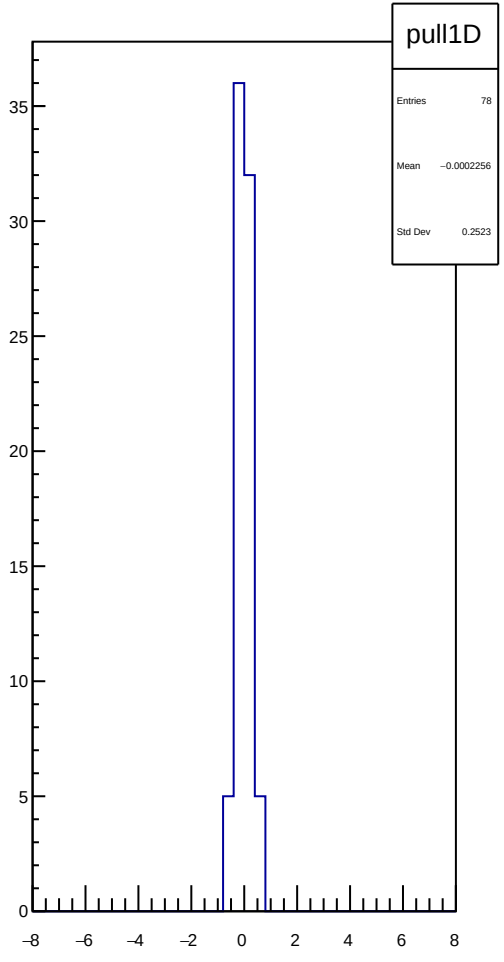

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.25 / 77
p0 −8.609 ± 0.1743
pull
Entries 78
Mean 1959
Std Dev 1921
pull1D
Entries 78
Mean −0.007104
Std Dev 0.7446


reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 153.2 / 77
p0 24.55 ± 0.1225
pull
Entries 78
Mean 251.5
Std Dev 211.4
pull1D
Entries 78
Mean −0.04764
Std Dev 1.401

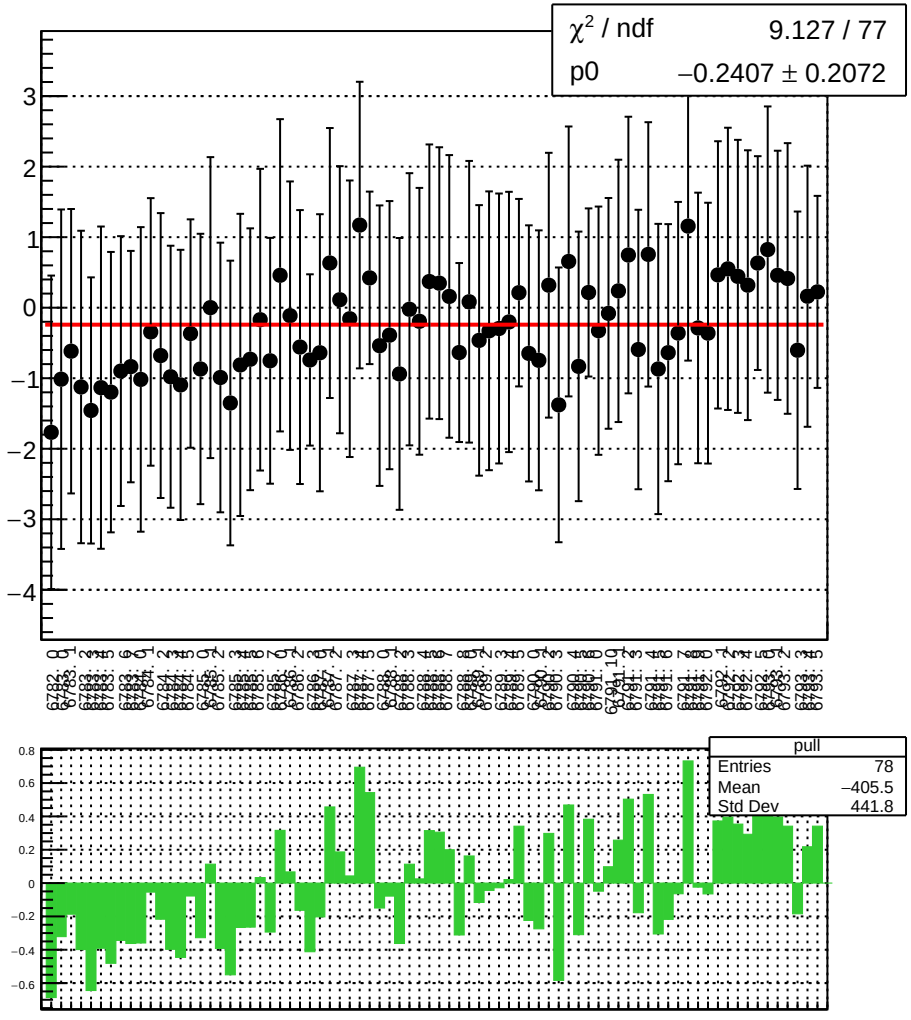

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 42.69 / 77
p0 −0.2183 ± 0.008163
pull
Entries 78
Mean −1164
Std Dev 1207

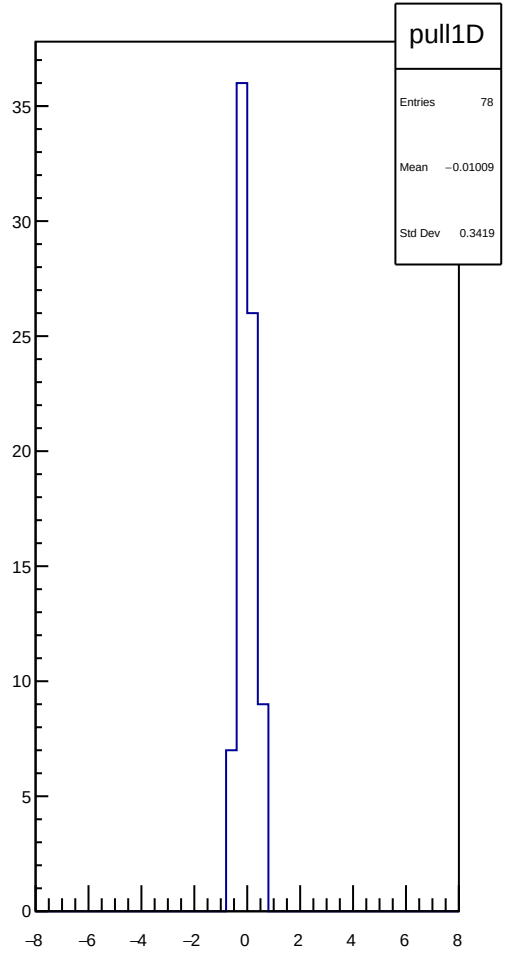

pull1D
Entries 78
Mean −0.003558
Std Dev 0.7398

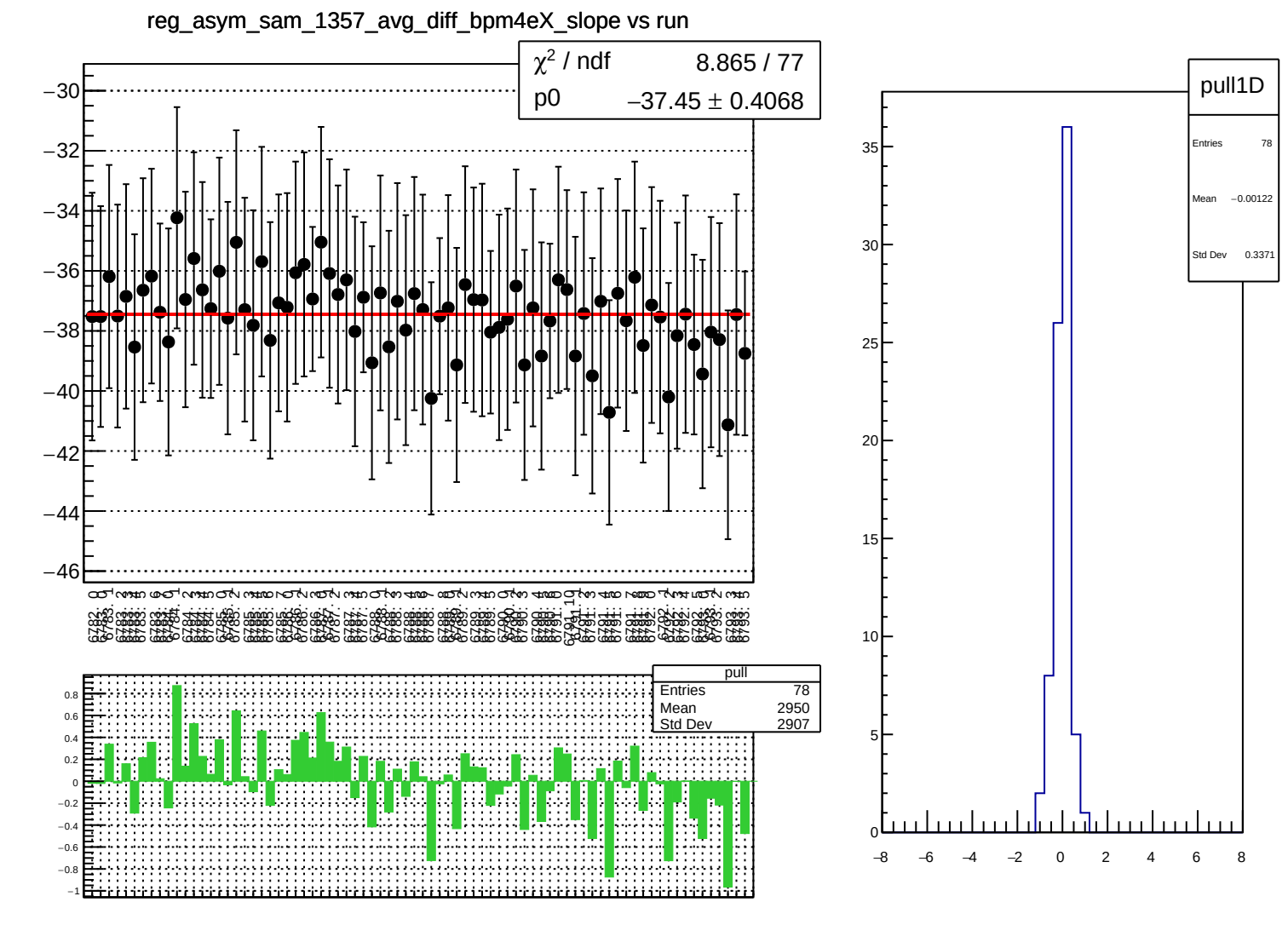

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 4.964 / 77
p0 −0.7459 ± 0.4356
pull
Entries 78
Mean −1.496e+04
Std Dev 1.5e+04

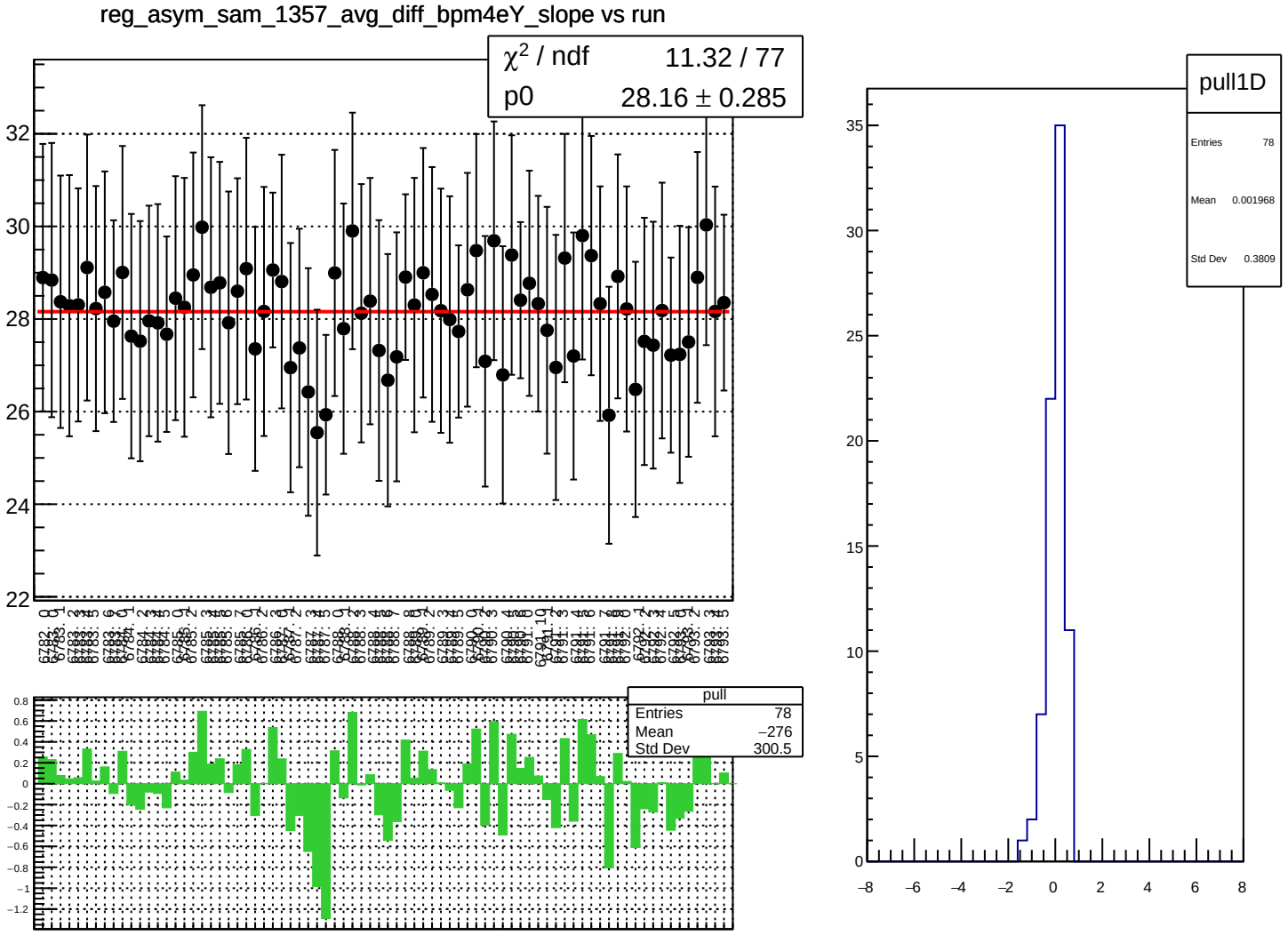

pull1D
Entries 78
Mean −0.0002256
Std Dev 0.2523

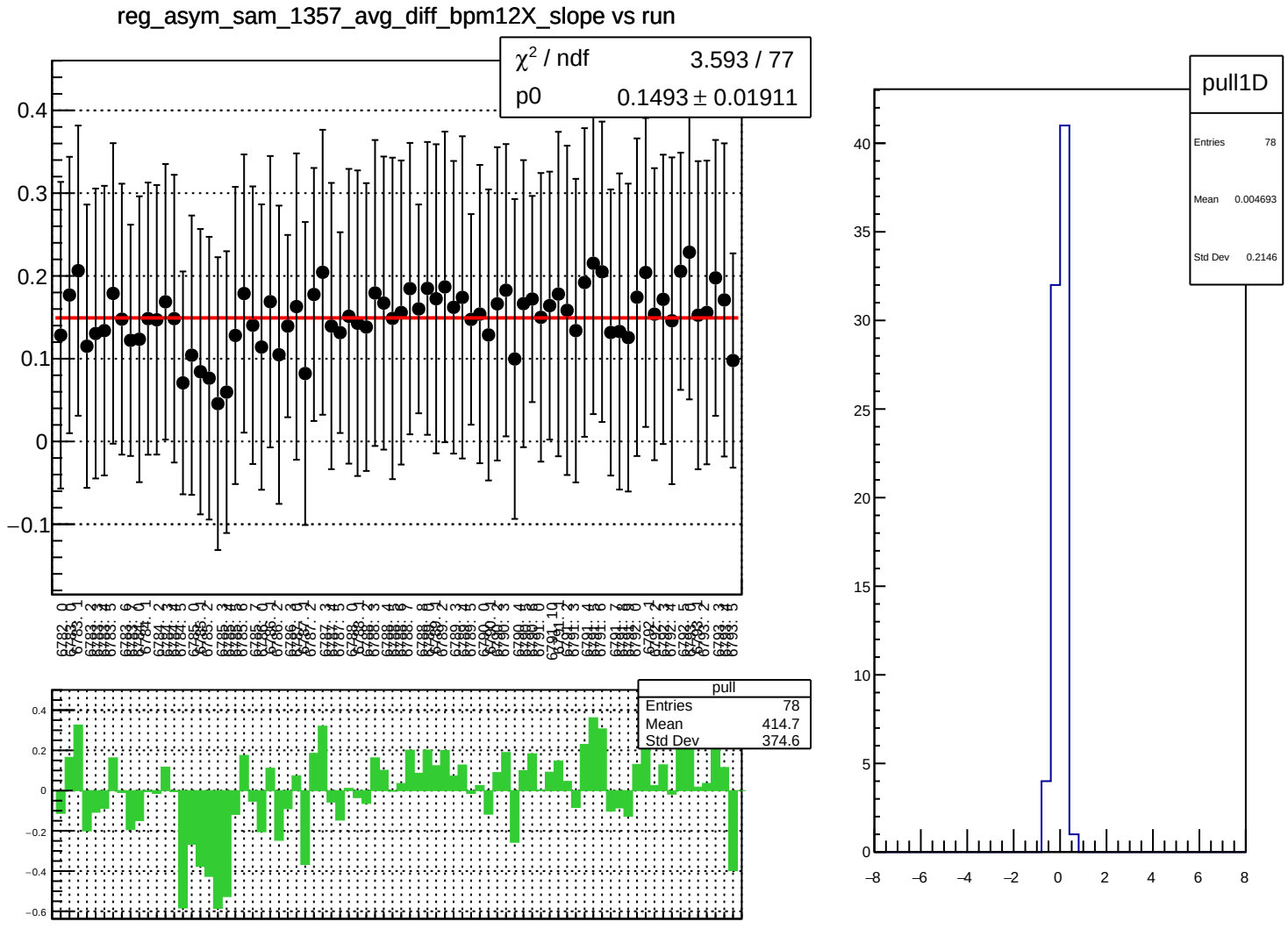
reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run

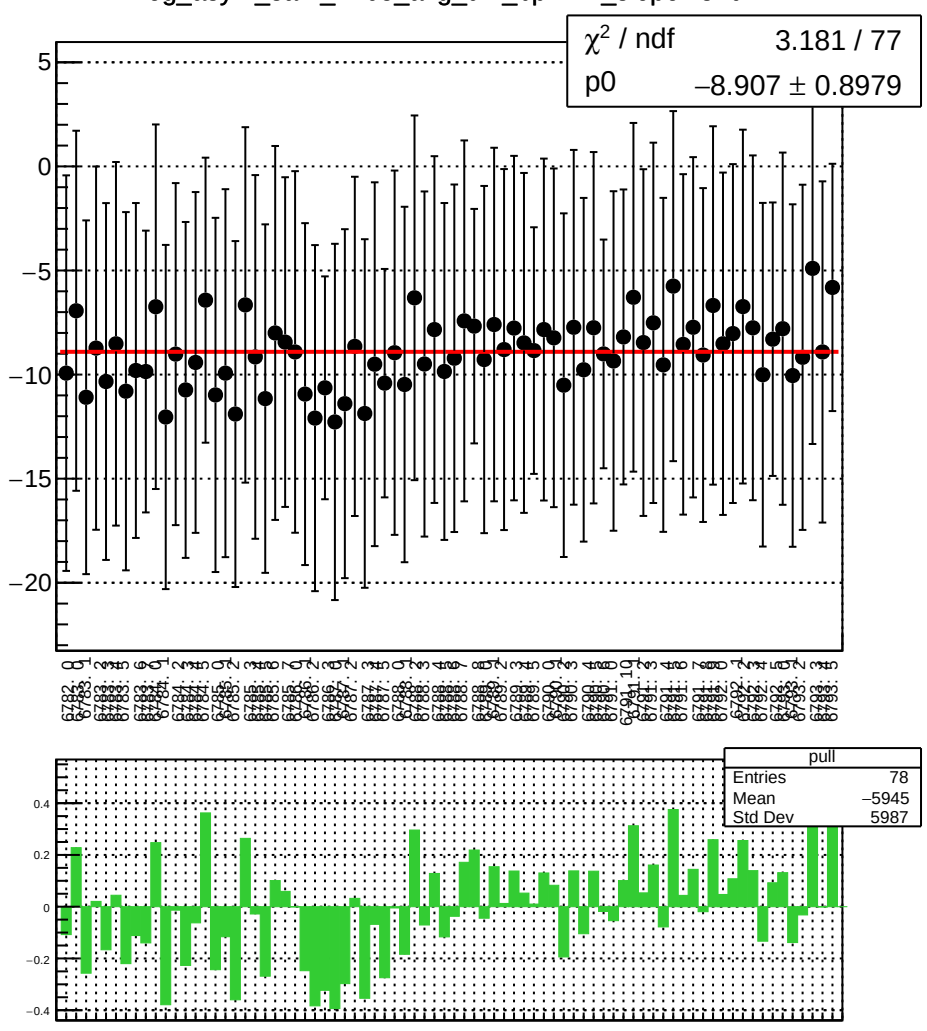


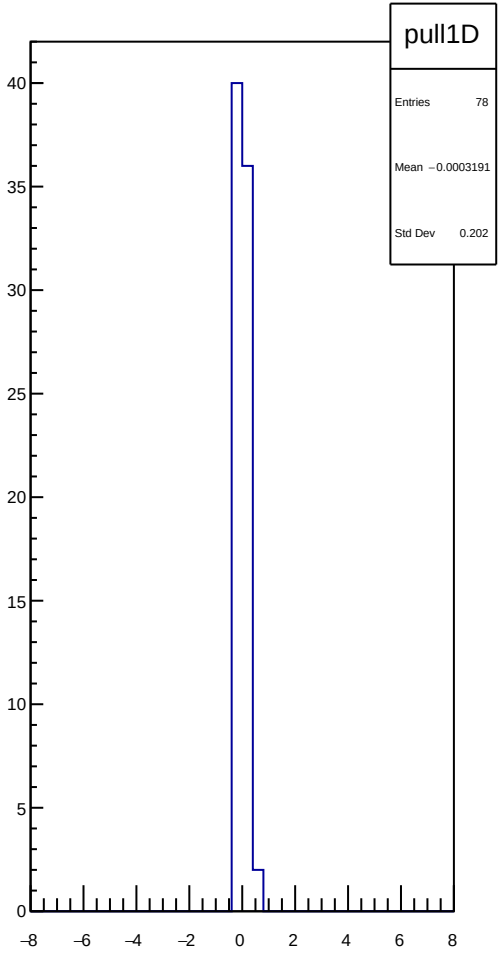


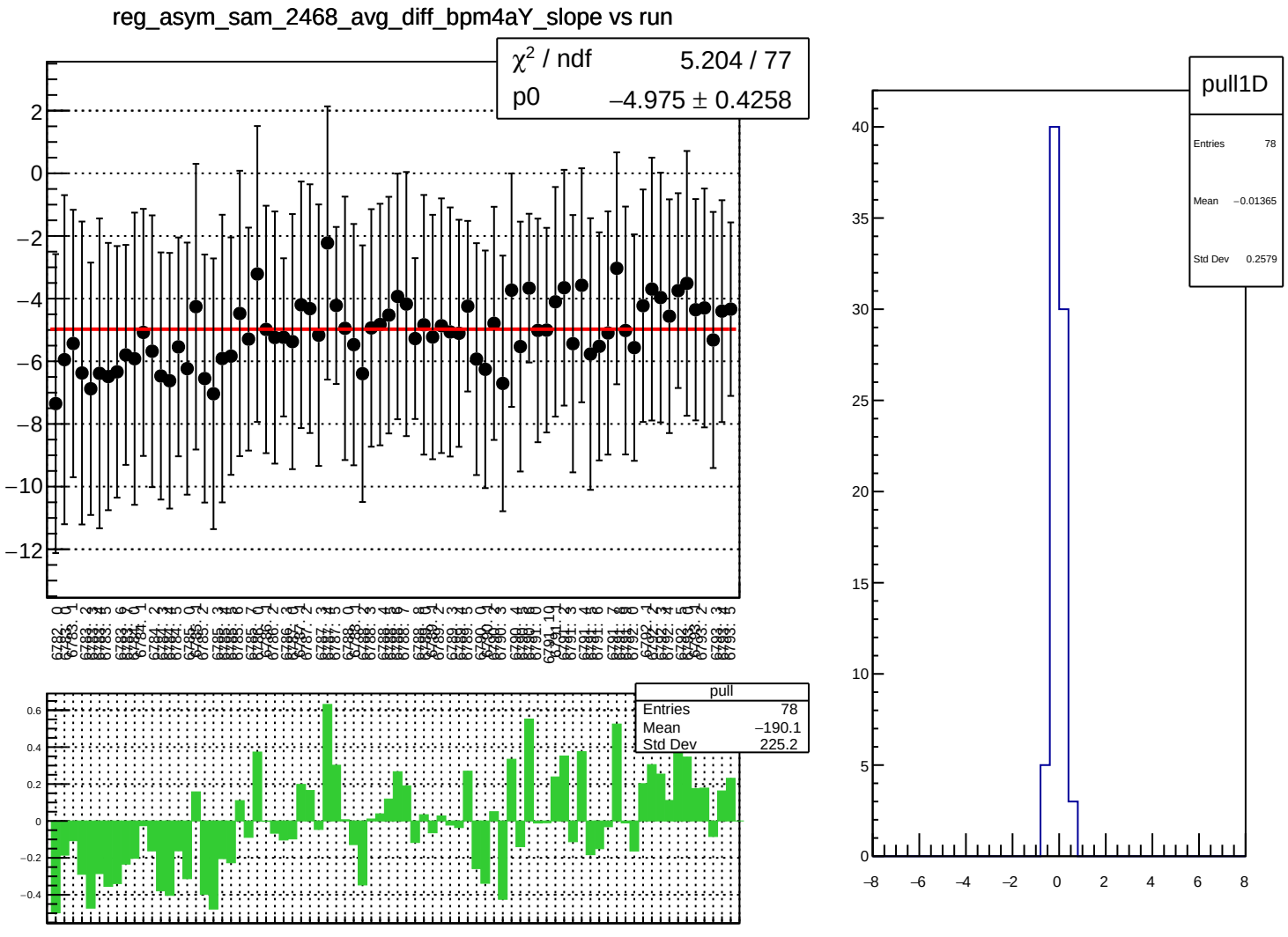

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.865 / 77
p0 −37.45 ± 0.4068
pull
Entries 78
Mean 2950
Std Dev 2907
pull1D
Entries 78
Mean −0.00122
Std Dev 0.3371

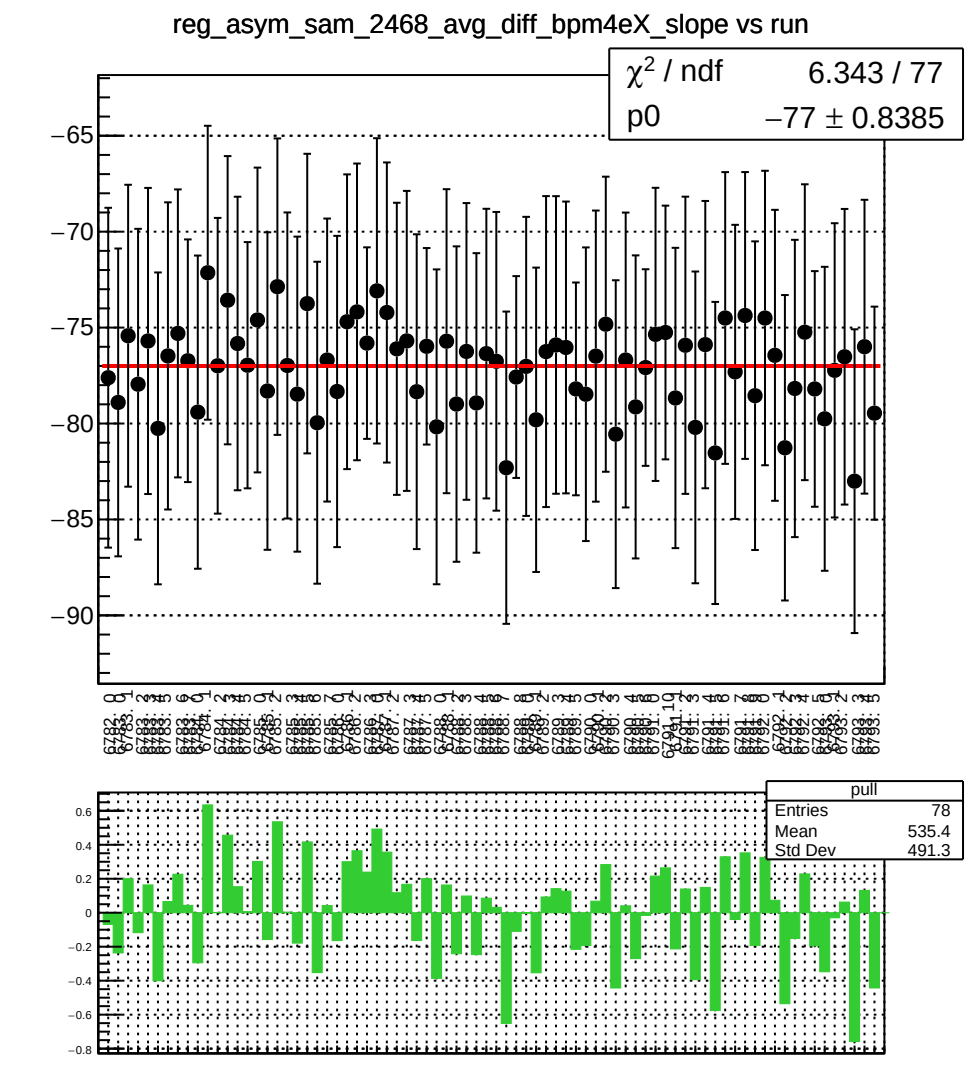

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.32 / 77
p0 28.16 ± 0.285
pull
Entries 78
Mean −276
Std Dev 300.5
pull1D
Entries 78
Mean 0.001968
Std Dev 0.3809

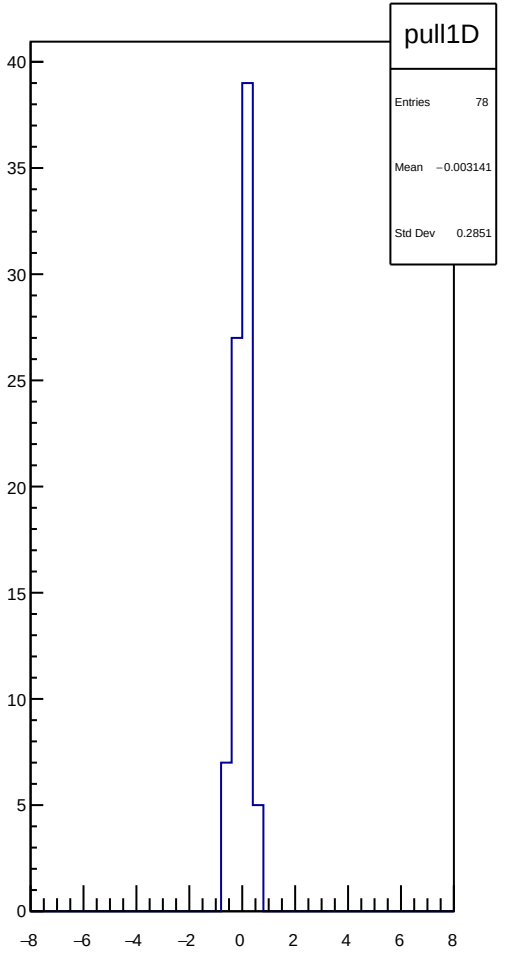

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 3.593 / 77
p0 0.1493 ± 0.01911
pull
Entries 78
Mean 414.7
Std Dev 374.6
pull1D
Entries 78
Mean 0.004693
Std Dev 0.2146

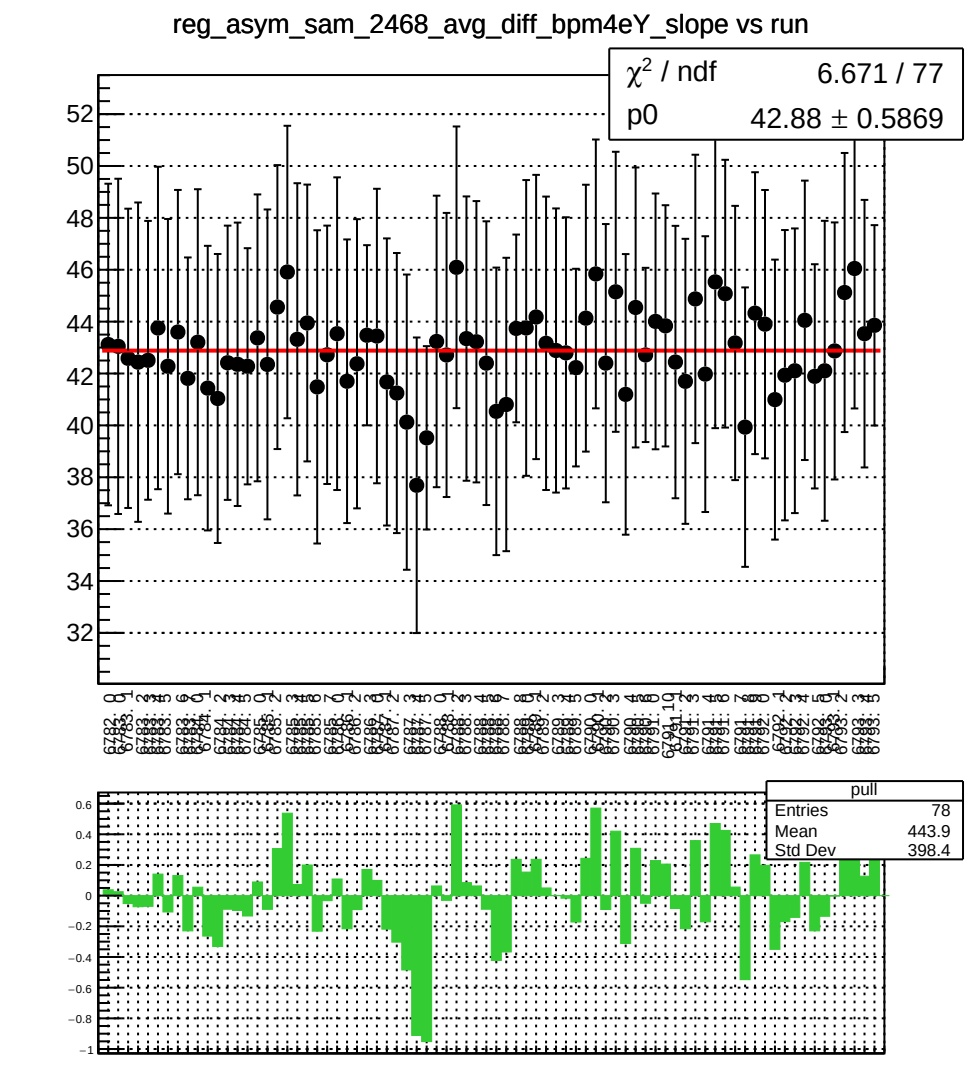

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 3.181 / 77
p0 −8.907 ± 0.8979
pull
Entries 78
Mean −5945
Std Dev 5987

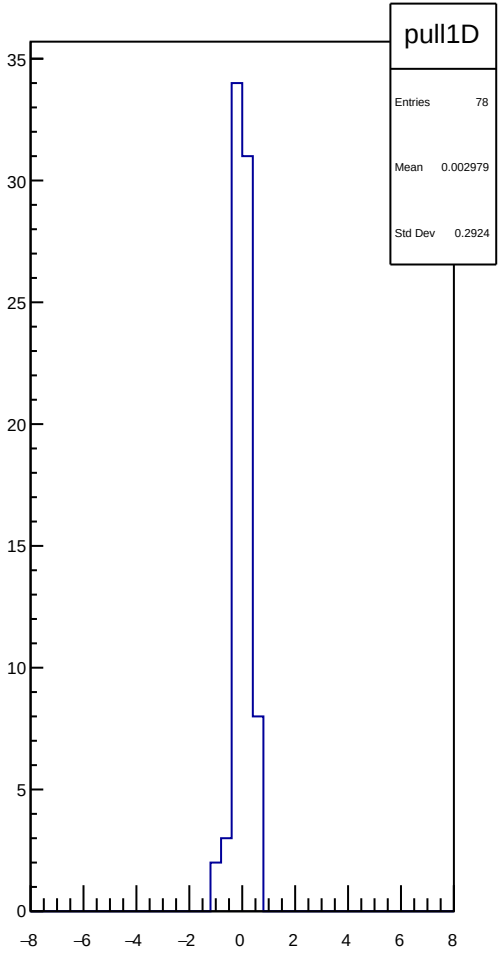

pull1D
Entries 78
Mean −0.0003191
Std Dev 0.202

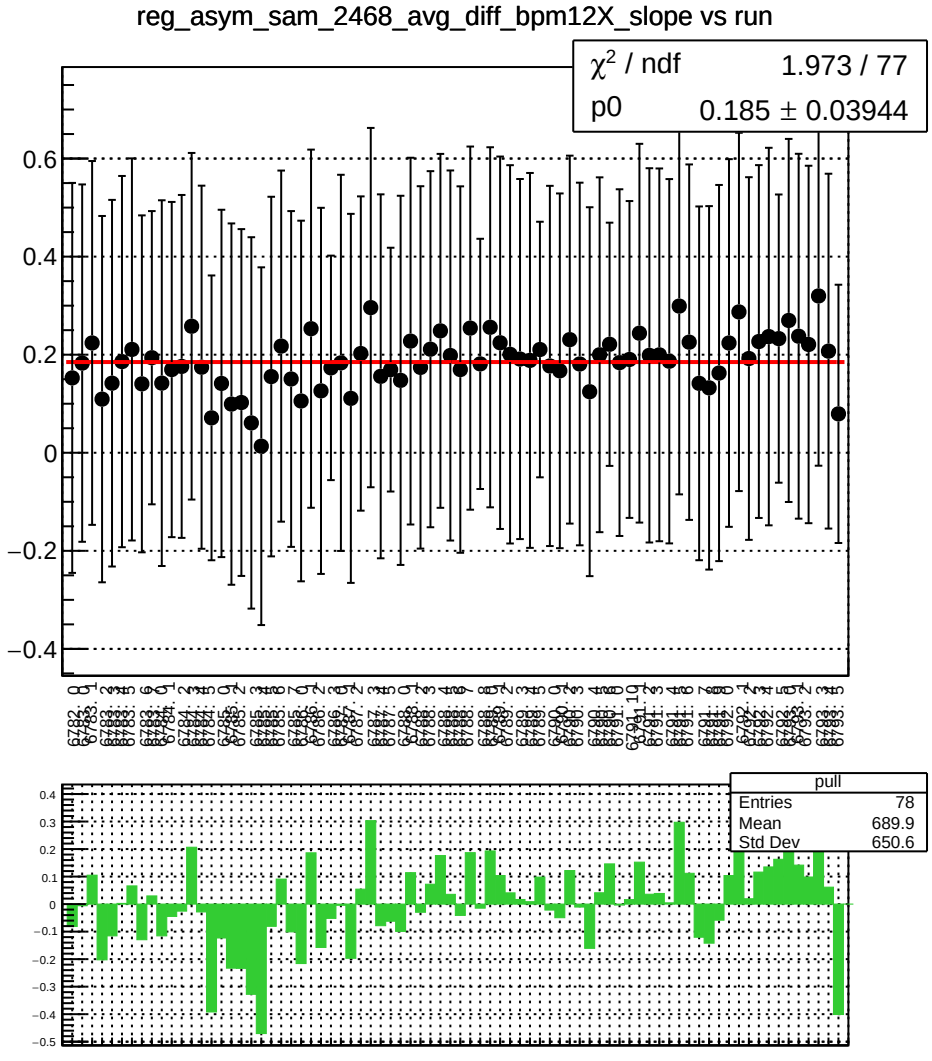

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.204 / 77
p0 −4.975 ± 0.4258
pull
Entries 78
Mean −190.1
Std Dev 225.2
pull1D
Entries 78
Mean −0.01365
Std Dev 0.2579

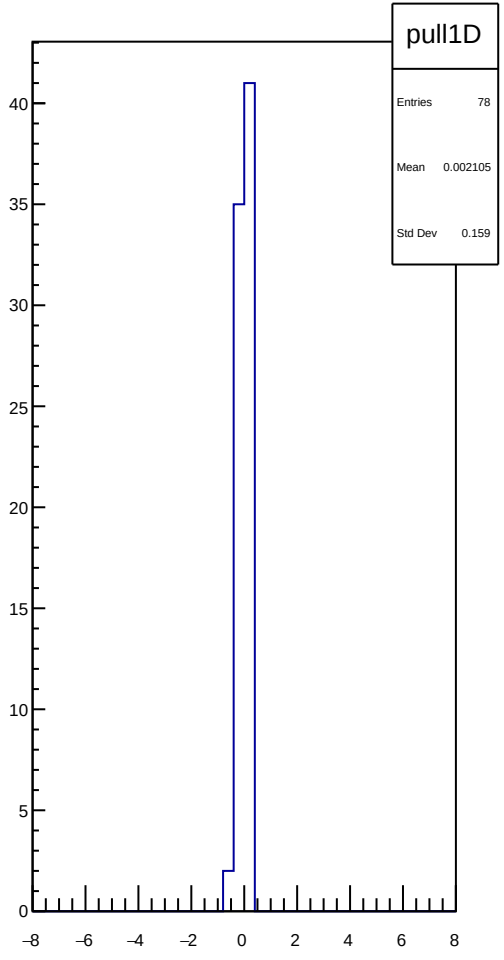

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.343 / 77
p0 −77 ± 0.8385
pull
Entries 78
Mean 535.4
Std Dev 491.3

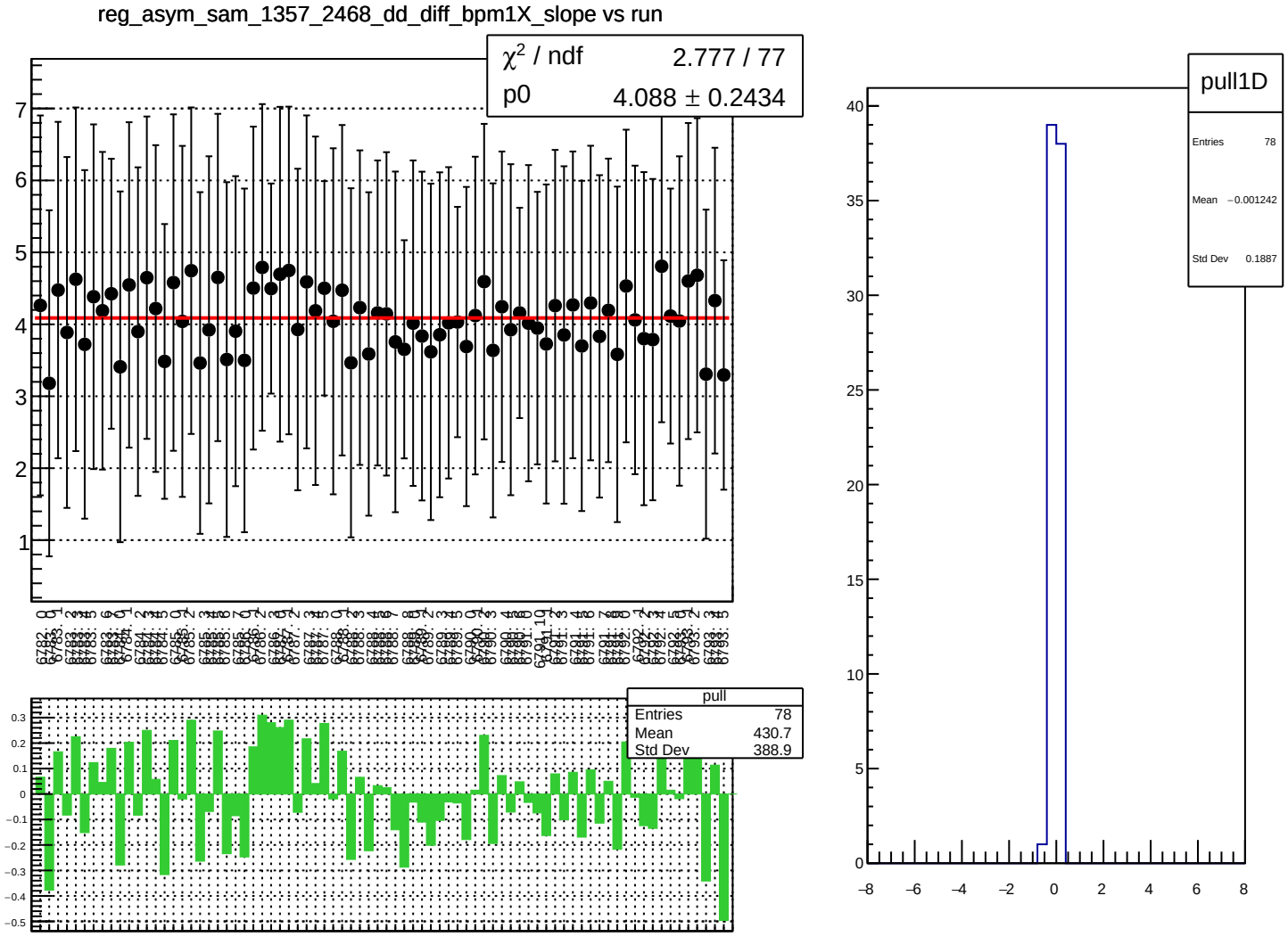

pull1D
Entries 78
Mean −0.003141
Std Dev 0.2851

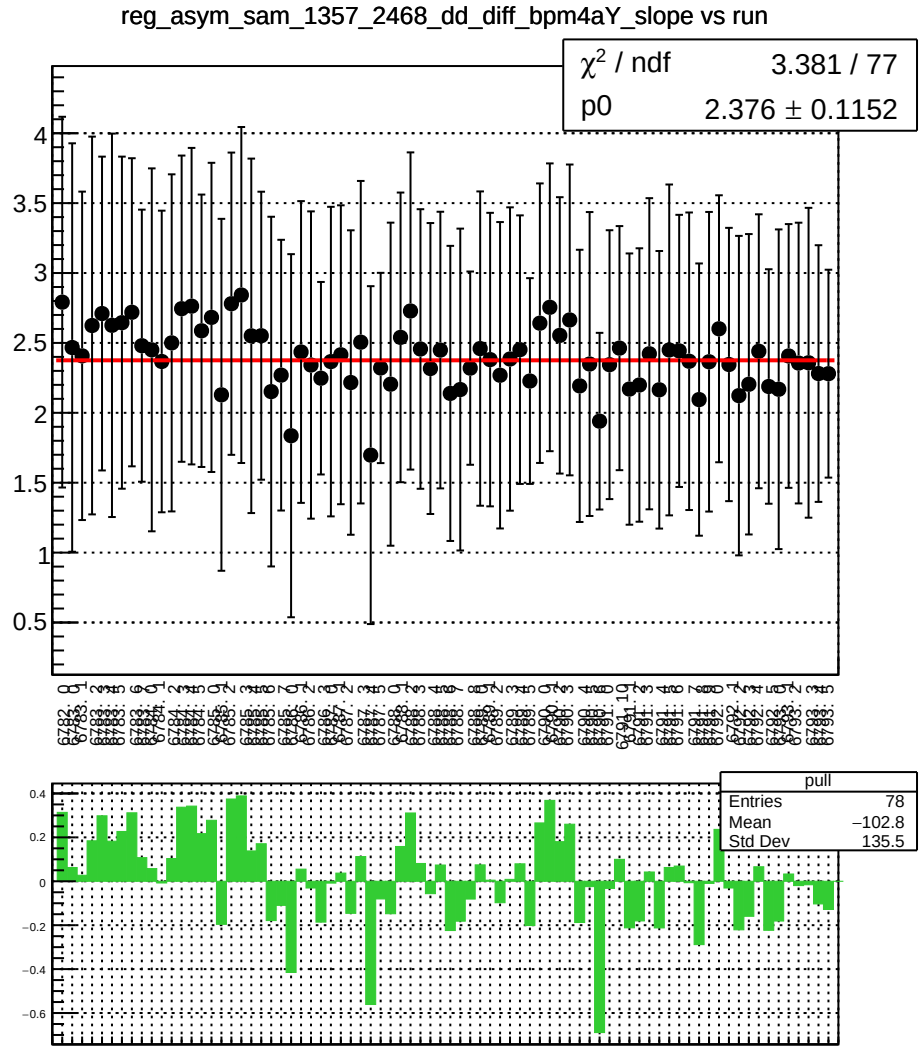

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.671 / 77
p0 42.88 ± 0.5869
pull
Entries 78
Mean 443.9
Std Dev 398.4

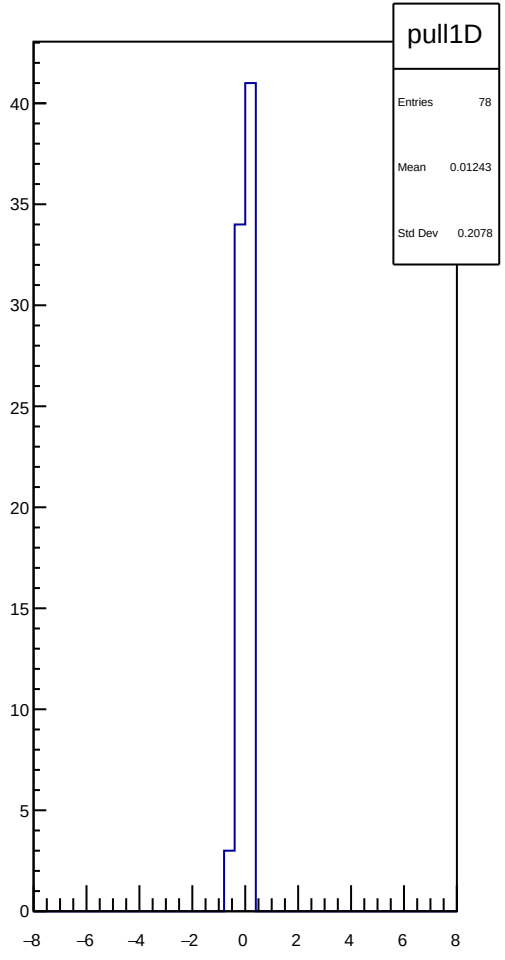

pull1D
Entries 78
Mean 0.002979
Std Dev 0.2924

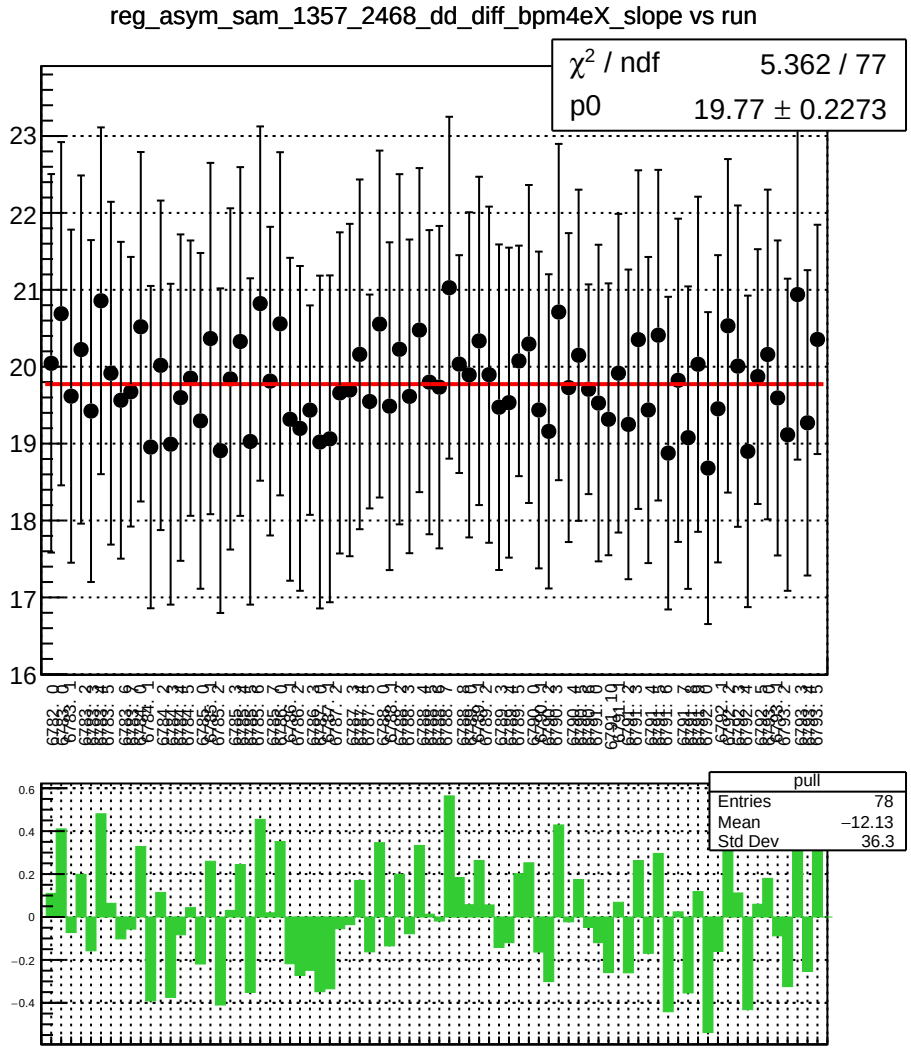

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1.973 / 77
p0 0.185 ± 0.03944
pull
Entries 78
Mean 689.9
Std Dev 650.6

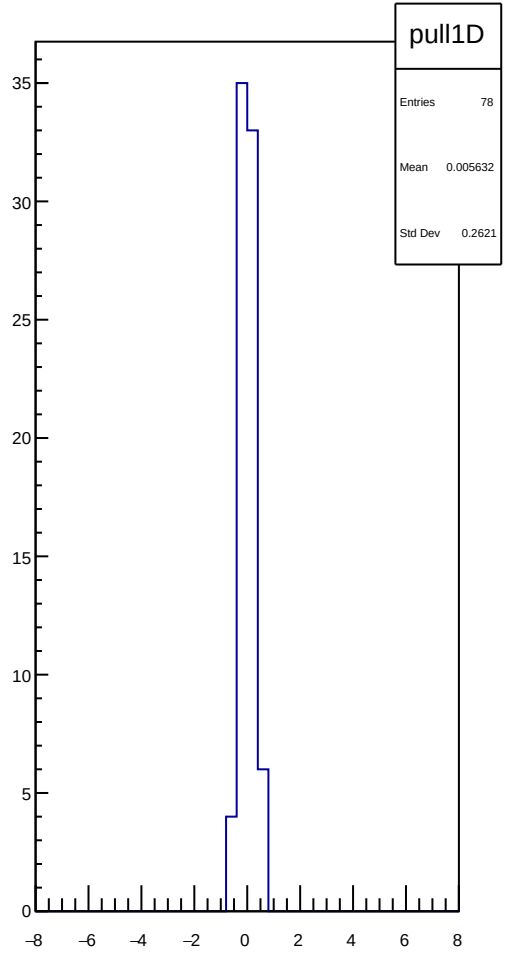

pull1D
Entries 78
Mean 0.002105
Std Dev 0.159

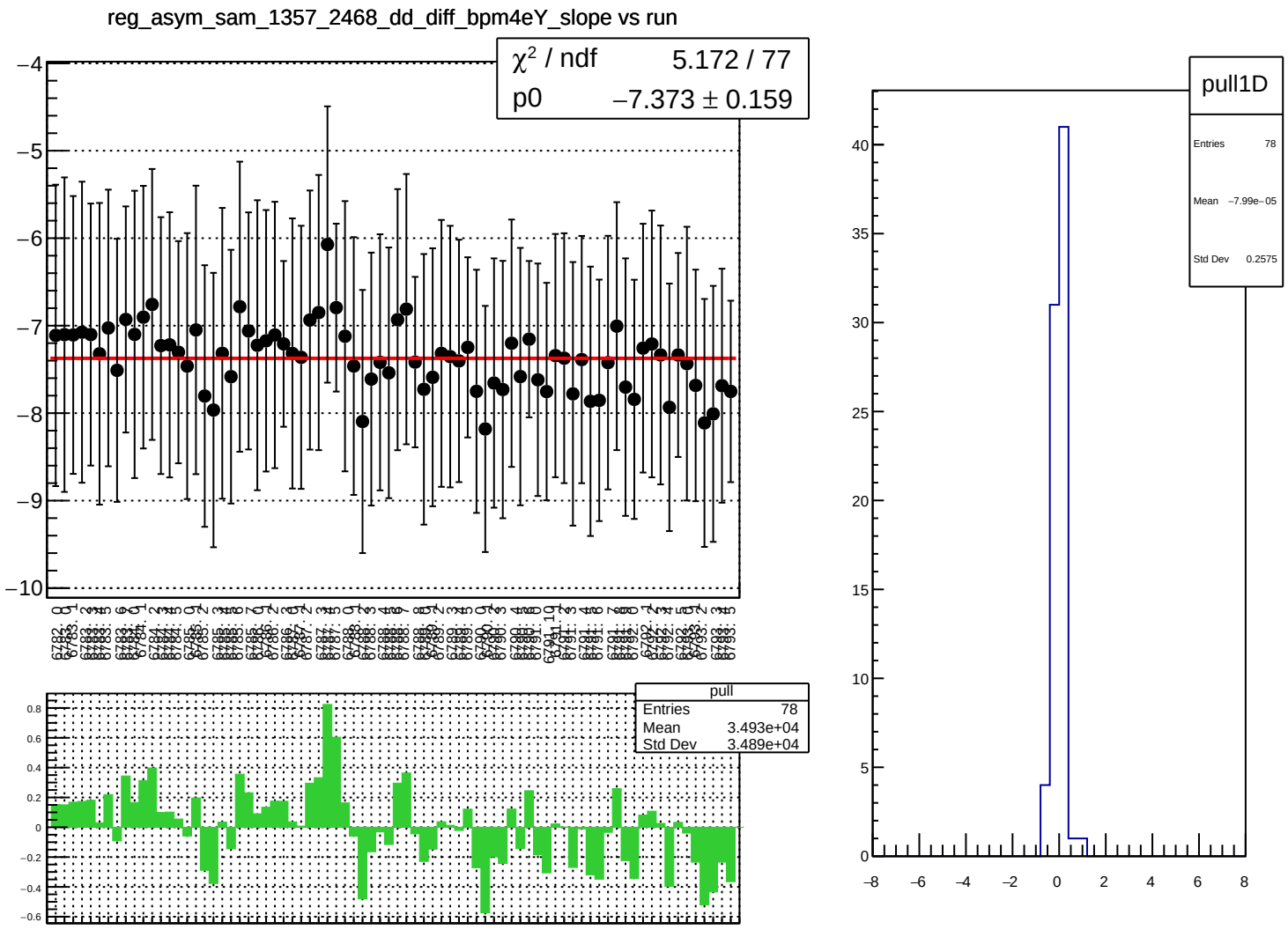

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 2.777 / 77
p0 4.088 ± 0.2434
pull
Entries 78
Mean 430.7
Std Dev 388.9
pull1D
Entries 78
Mean −0.001242
Std Dev 0.1887

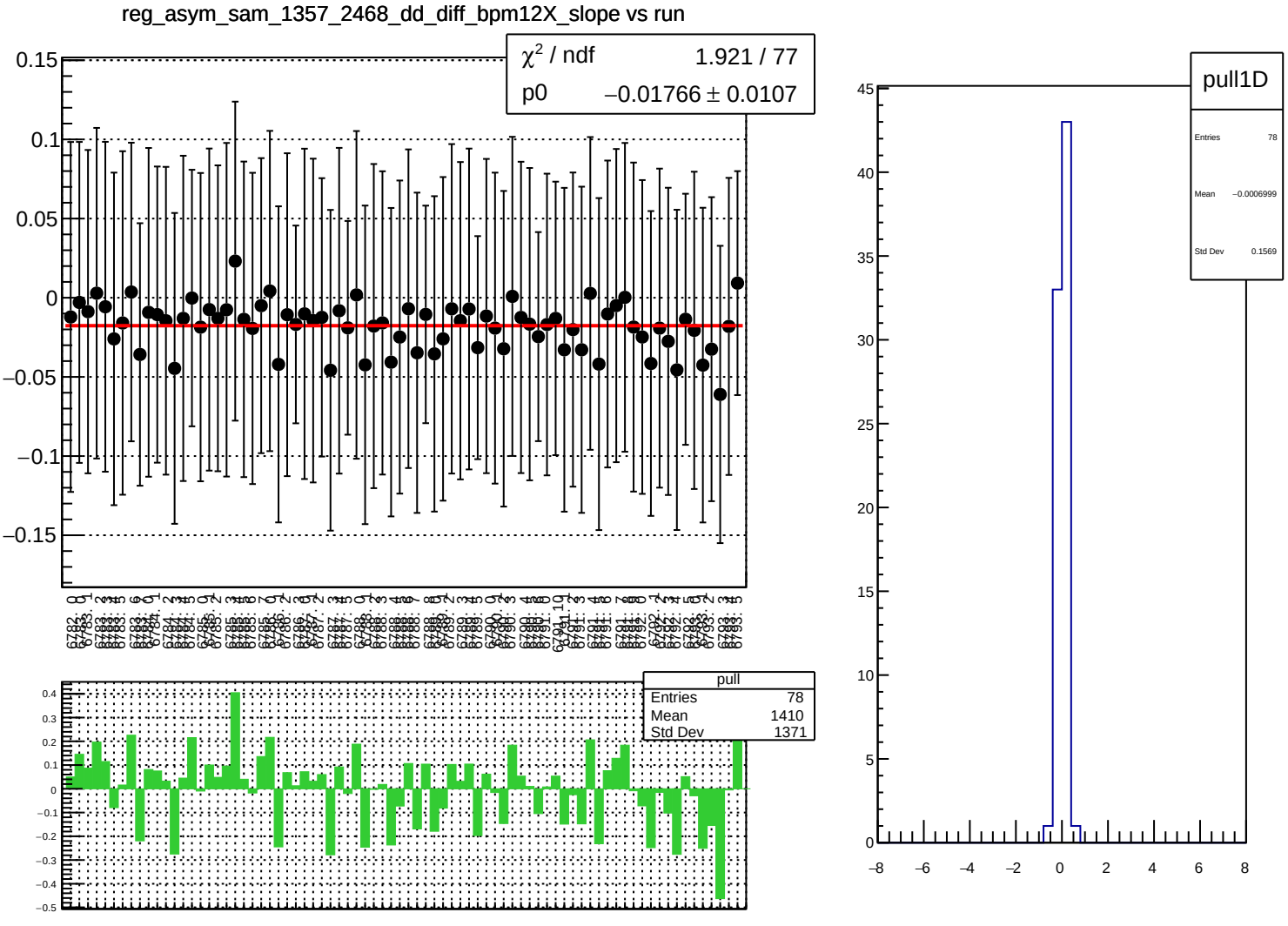

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.381 / 77
p0 2.376 ± 0.1152
pull
Entries 78
Mean −102.8
Std Dev 135.5

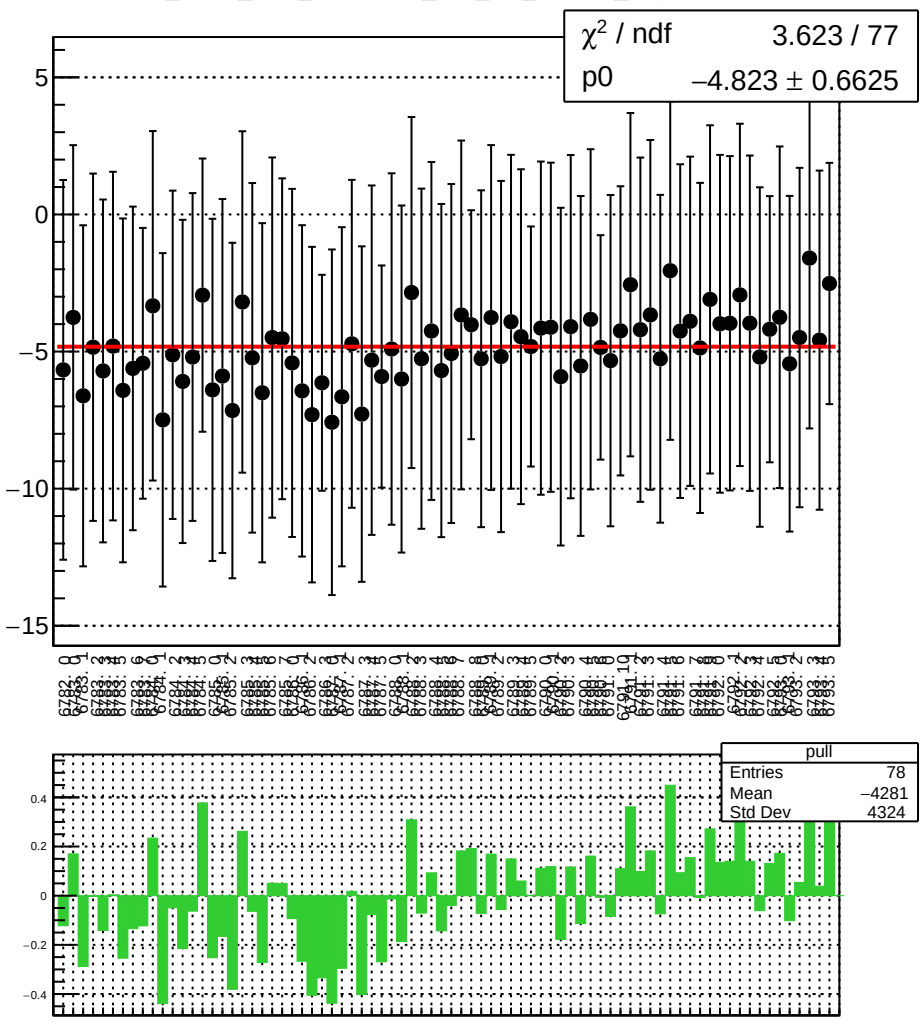

pull1D
Entries 78
Mean 0.01243
Std Dev 0.2078

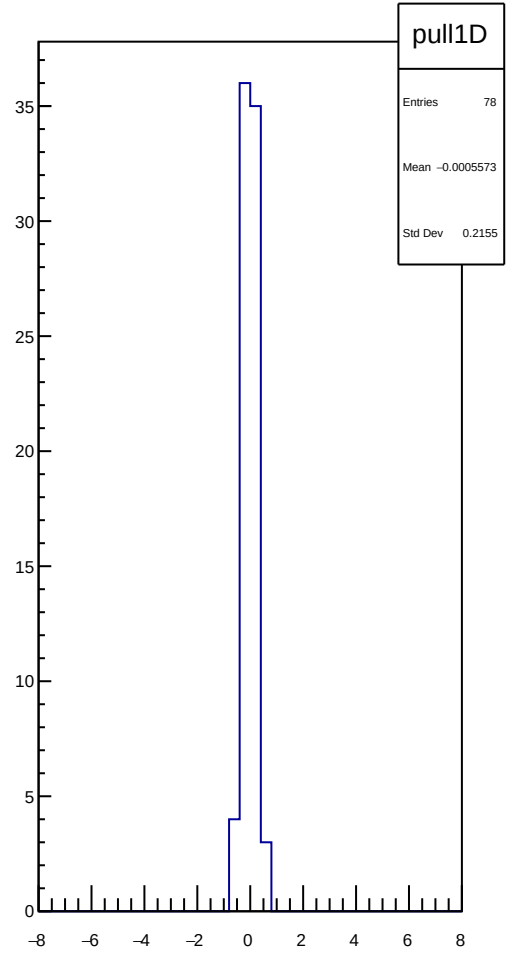

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.362 / 77
p0 19.77 ± 0.2273
pull
Entries 78
Mean −12.13
Std Dev 36.3

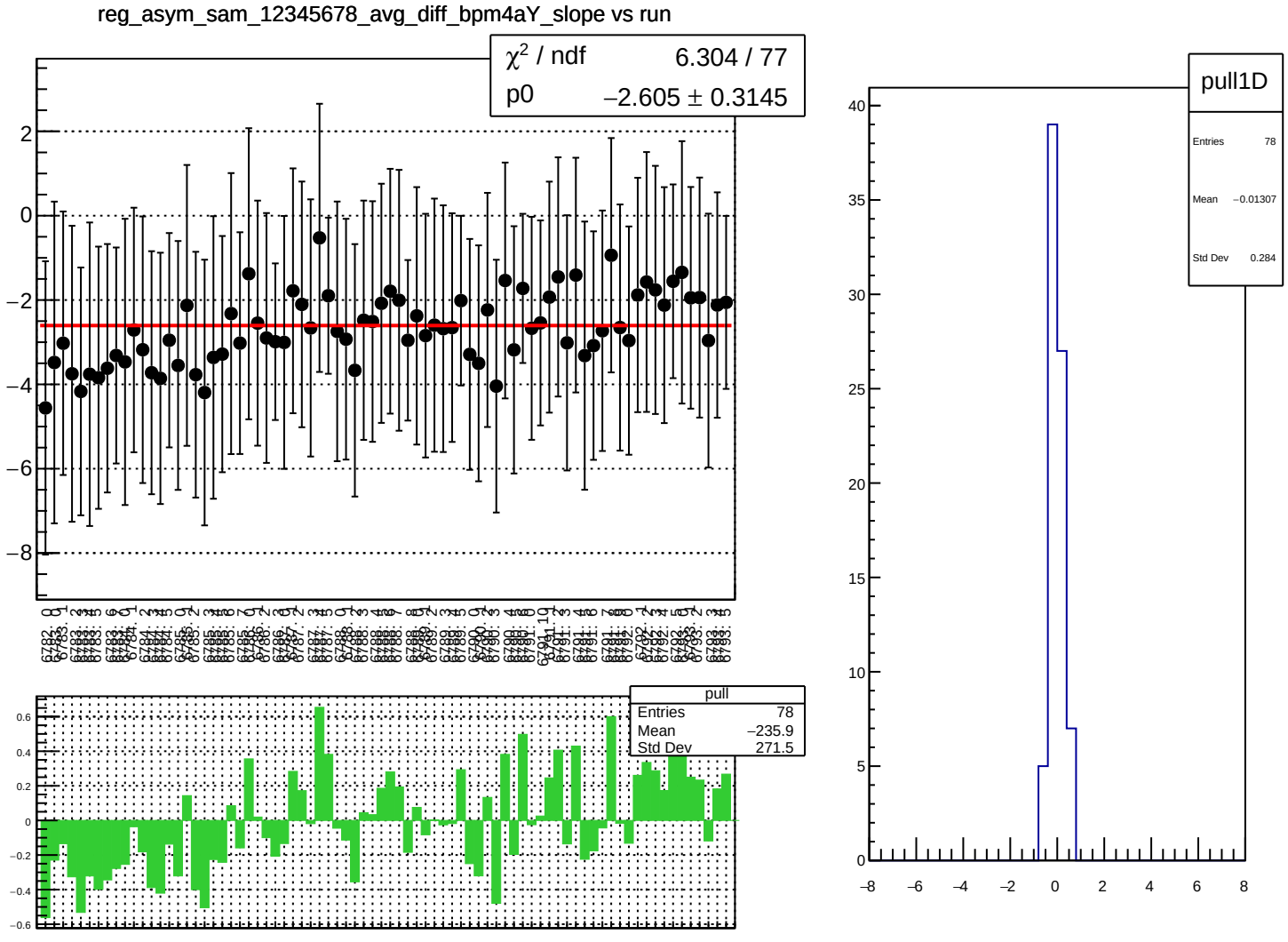

pull1D
Entries 78
Mean 0.005632
Std Dev 0.2621

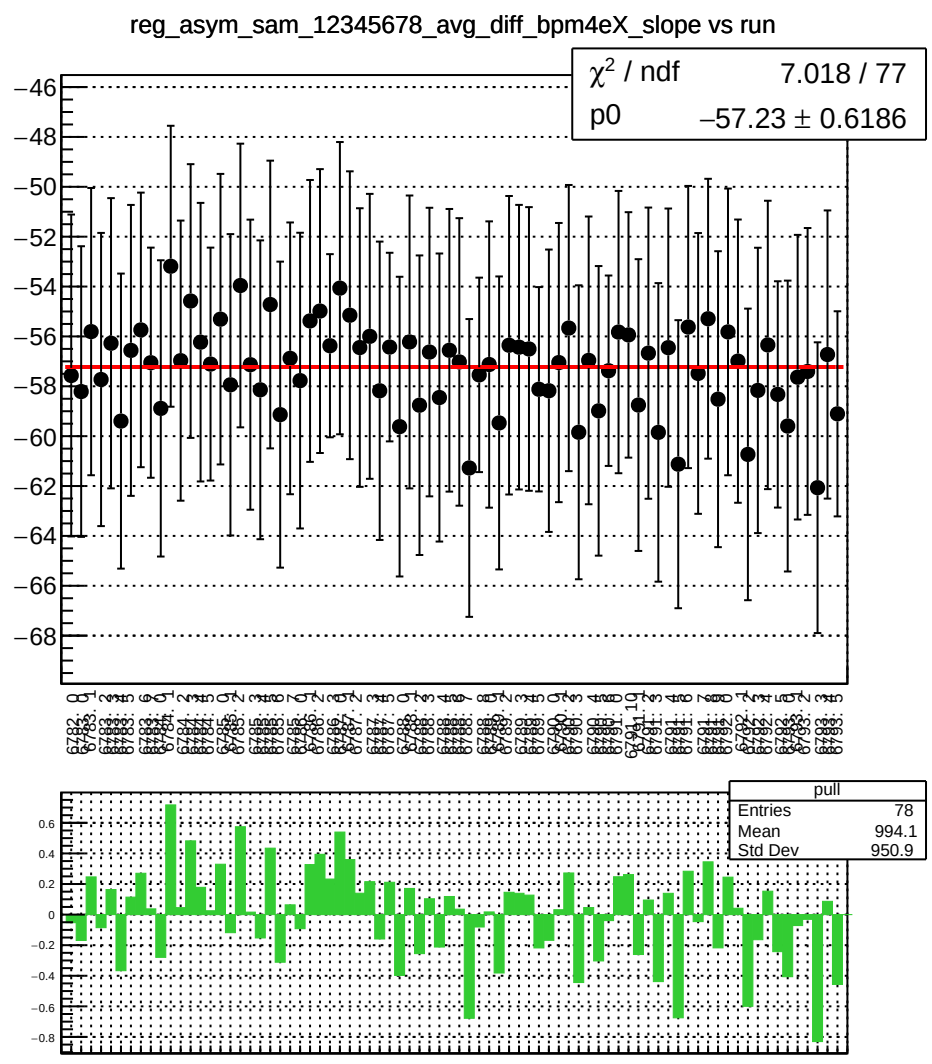

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.172 / 77
p0 −7.373 ± 0.159
pull
Entries 78
Mean 3.493e+04
Std Dev 3.489e+04
pull1D
Entries 78
Mean −7.99e−05
Std Dev 0.2575

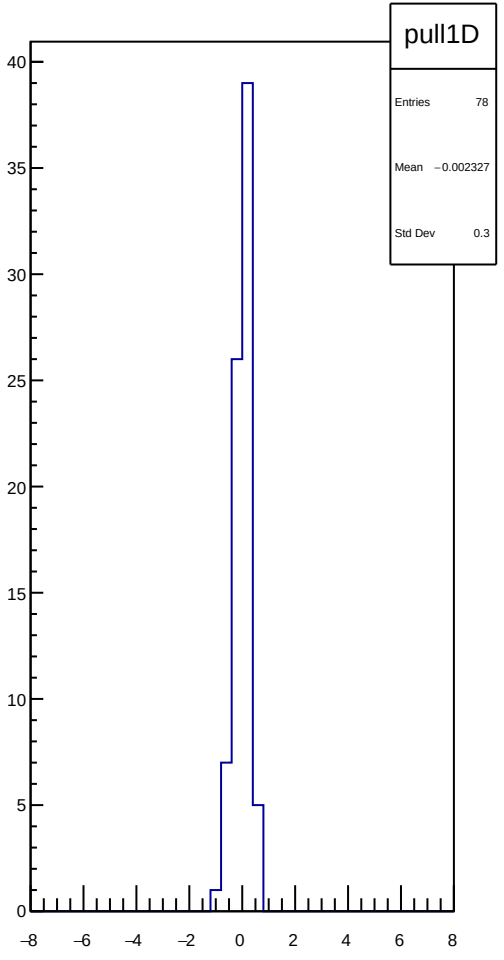

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 1.921 / 77
p0 −0.01766 ± 0.0107
pull
Entries 78
Mean 1410
Std Dev 1371
pull1D
Entries 78
Mean −0.0006999
Std Dev 0.1569

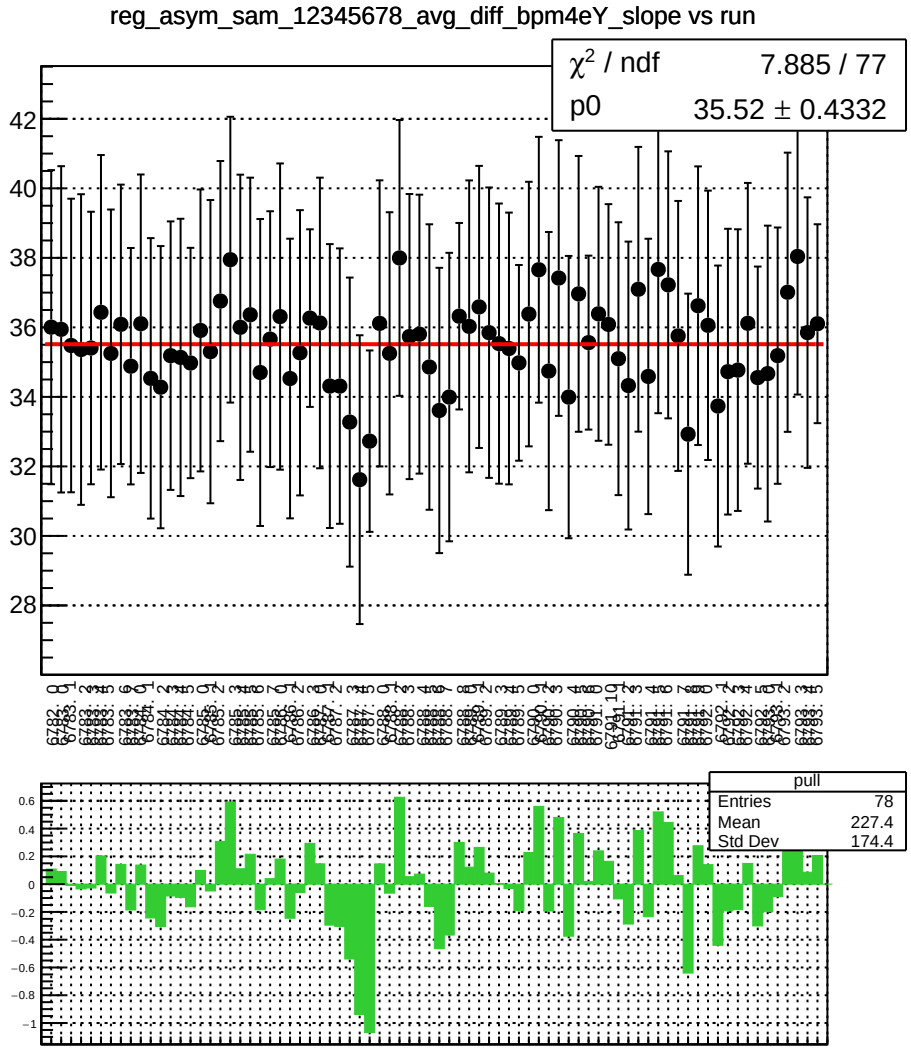

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 3.623 / 77
p0 −4.823 ± 0.6625
pull
Entries 78
Mean −4281
Std Dev 4324

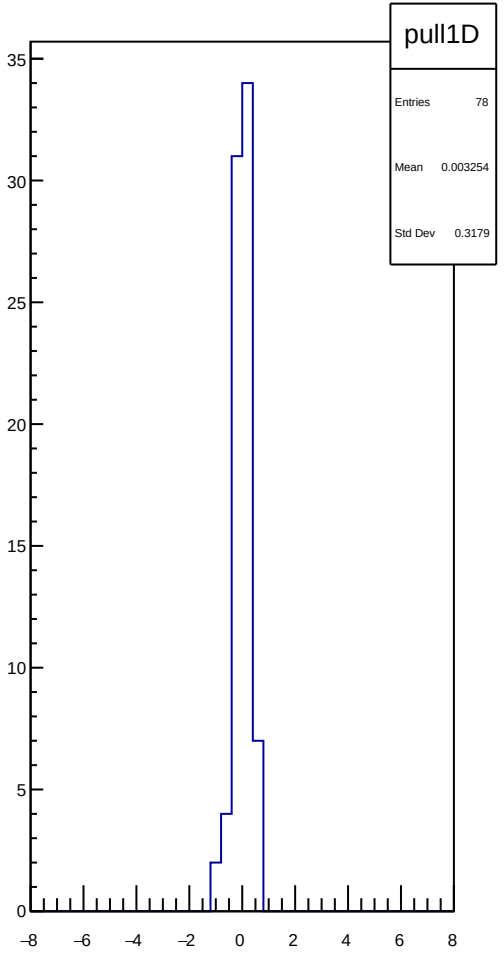

pull1D
Entries 78
Mean −0.0005573
Std Dev 0.2155

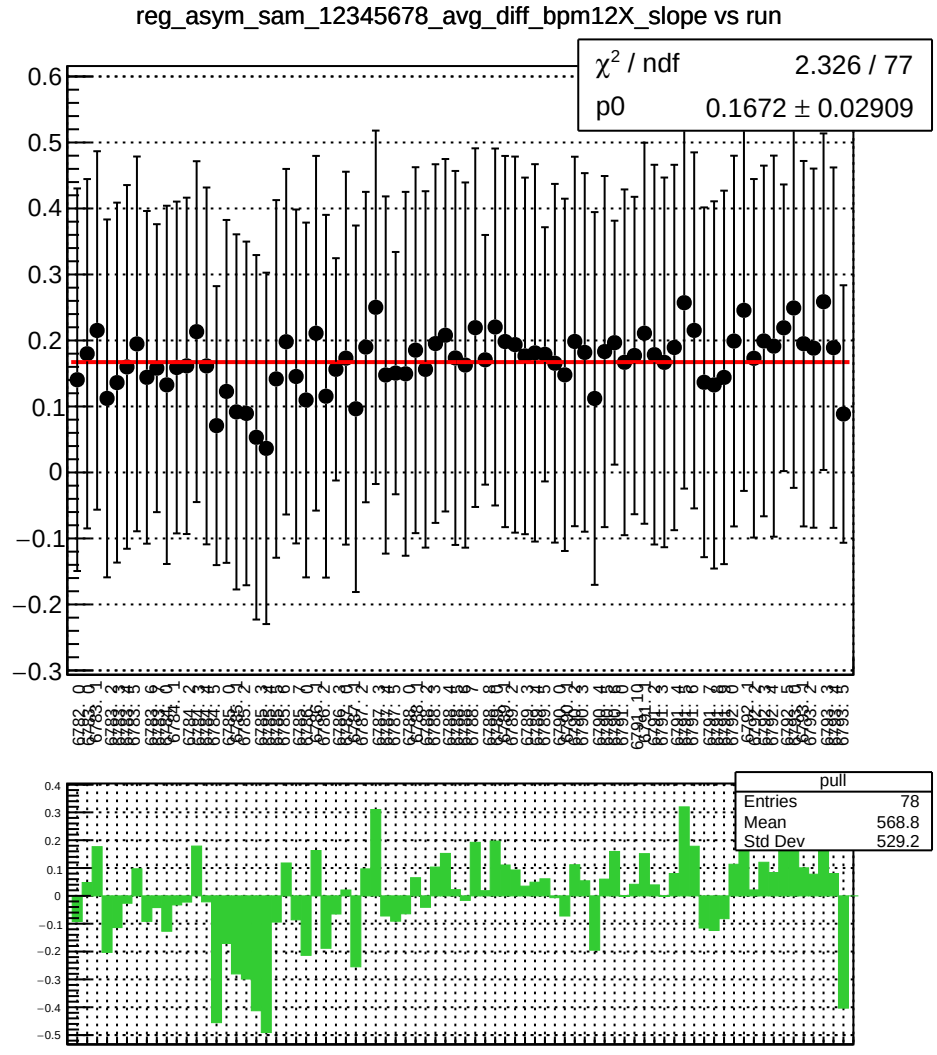

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.304 / 77
p0 −2.605 ± 0.3145
pull
Entries 78
Mean −235.9
Std Dev 271.5
pull1D
Entries 78
Mean −0.01307
Std Dev 0.284

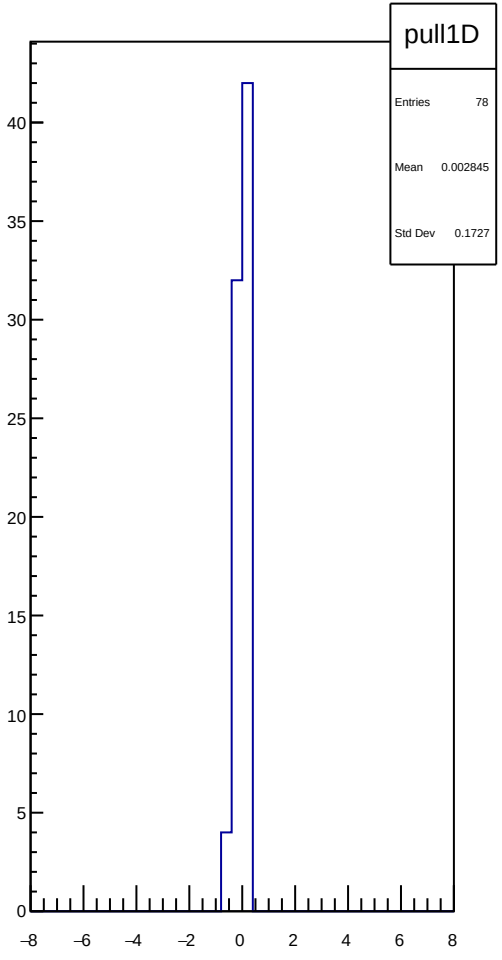

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.018 / 77
p0 −57.23 ± 0.6186
pull
Entries 78
Mean 994.1
Std Dev 950.9

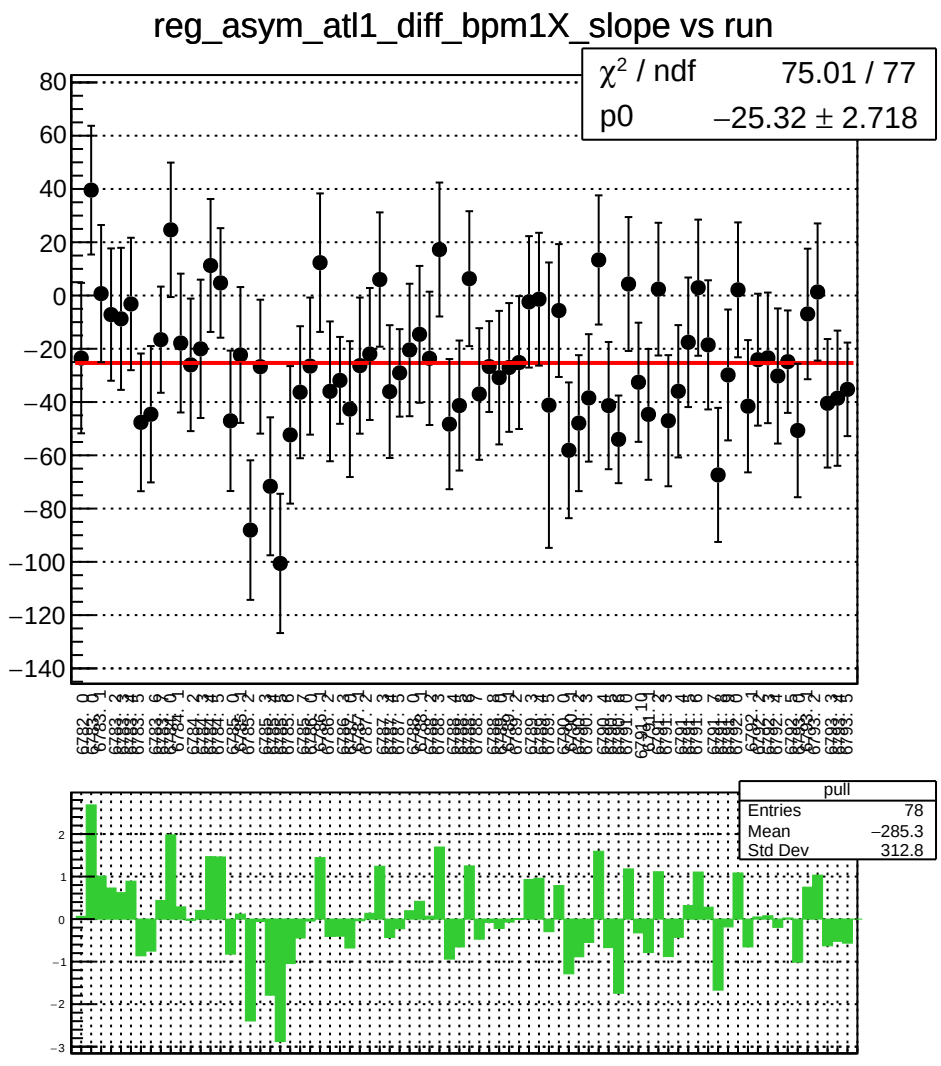

pull1D
Entries 78
Mean −0.002327
Std Dev 0.3

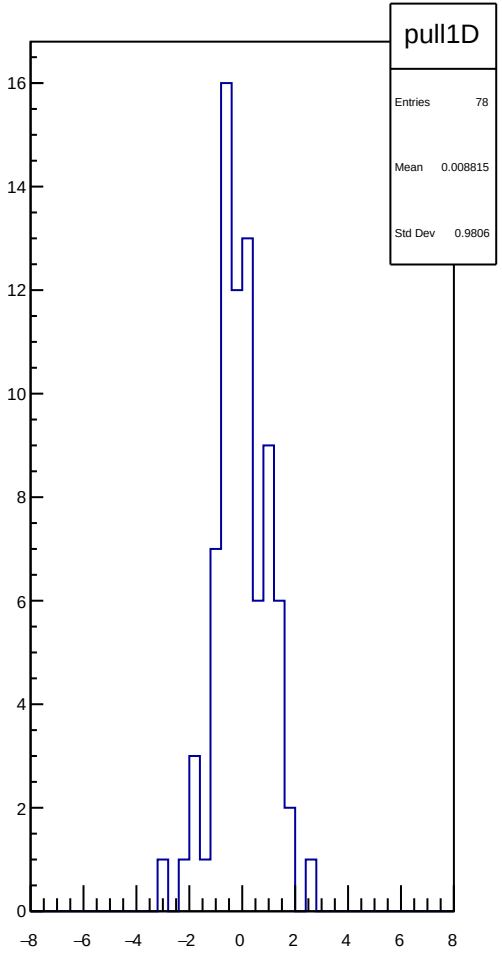

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.885 / 77
p0 35.52 ± 0.4332
pull
Entries 78
Mean 227.4
Std Dev 174.4

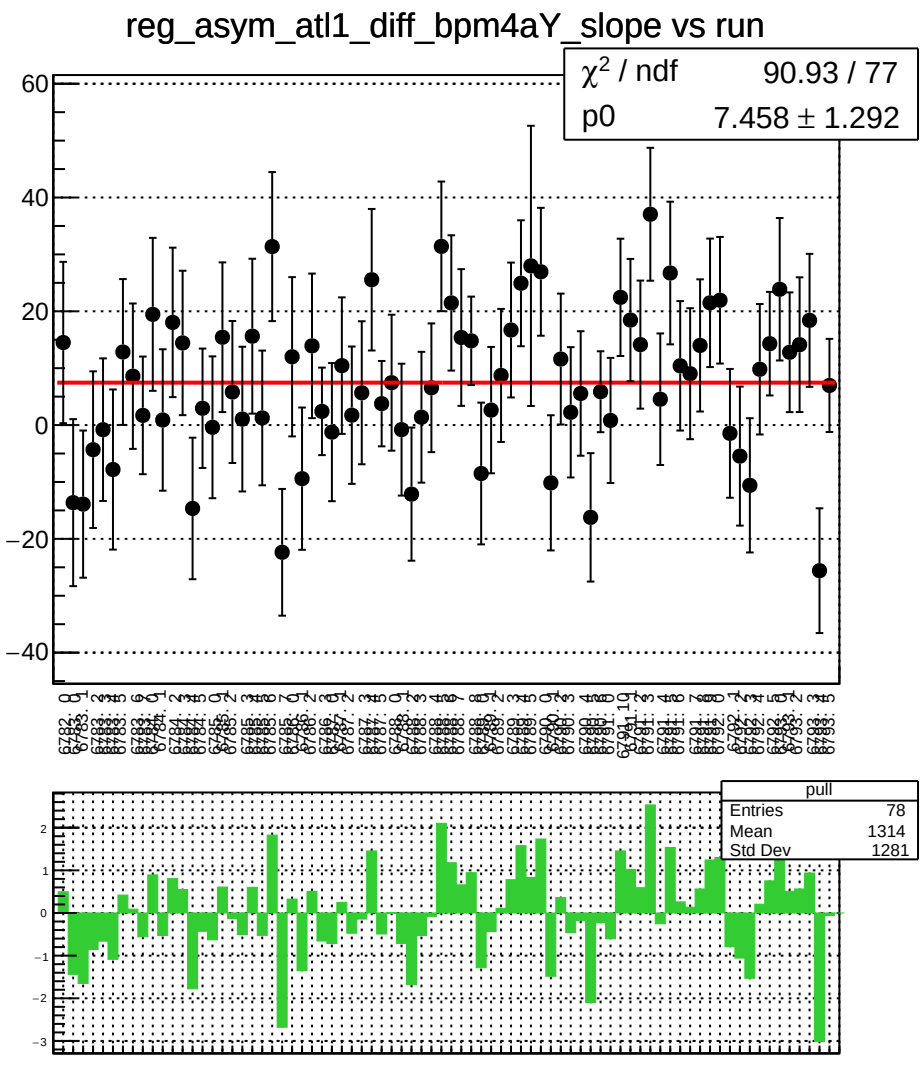

pull1D
Entries 78
Mean 0.003254
Std Dev 0.3179

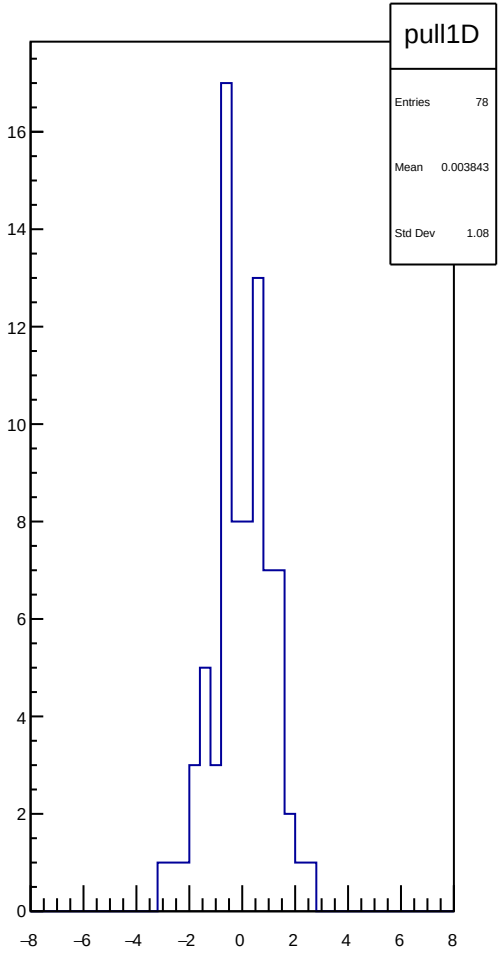

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 2.326 / 77
p0 0.1672 ± 0.02909
pull
Entries 78
Mean 568.8
Std Dev 529.2

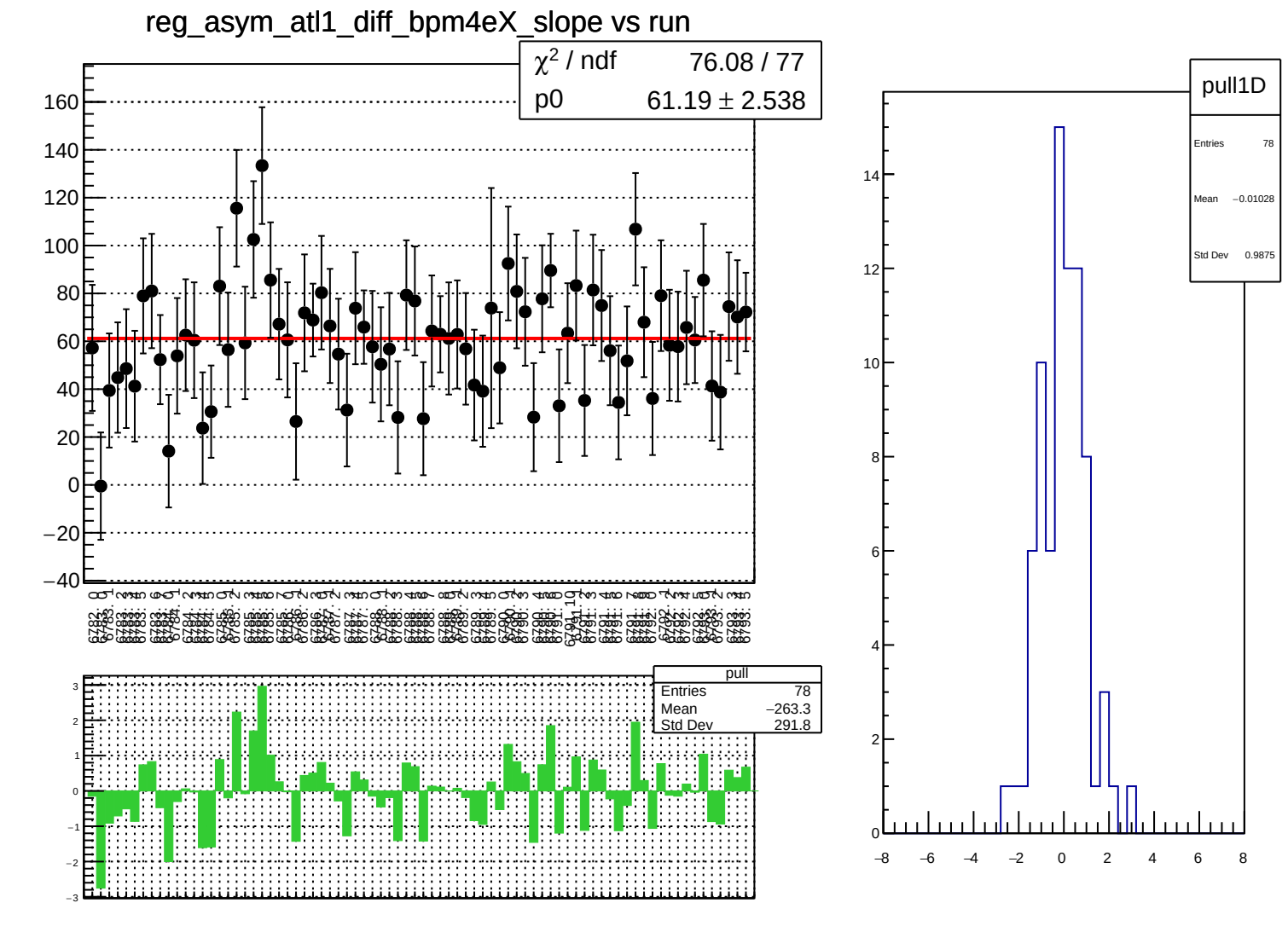

pull1D
Entries 78
Mean 0.002845
Std Dev 0.1727

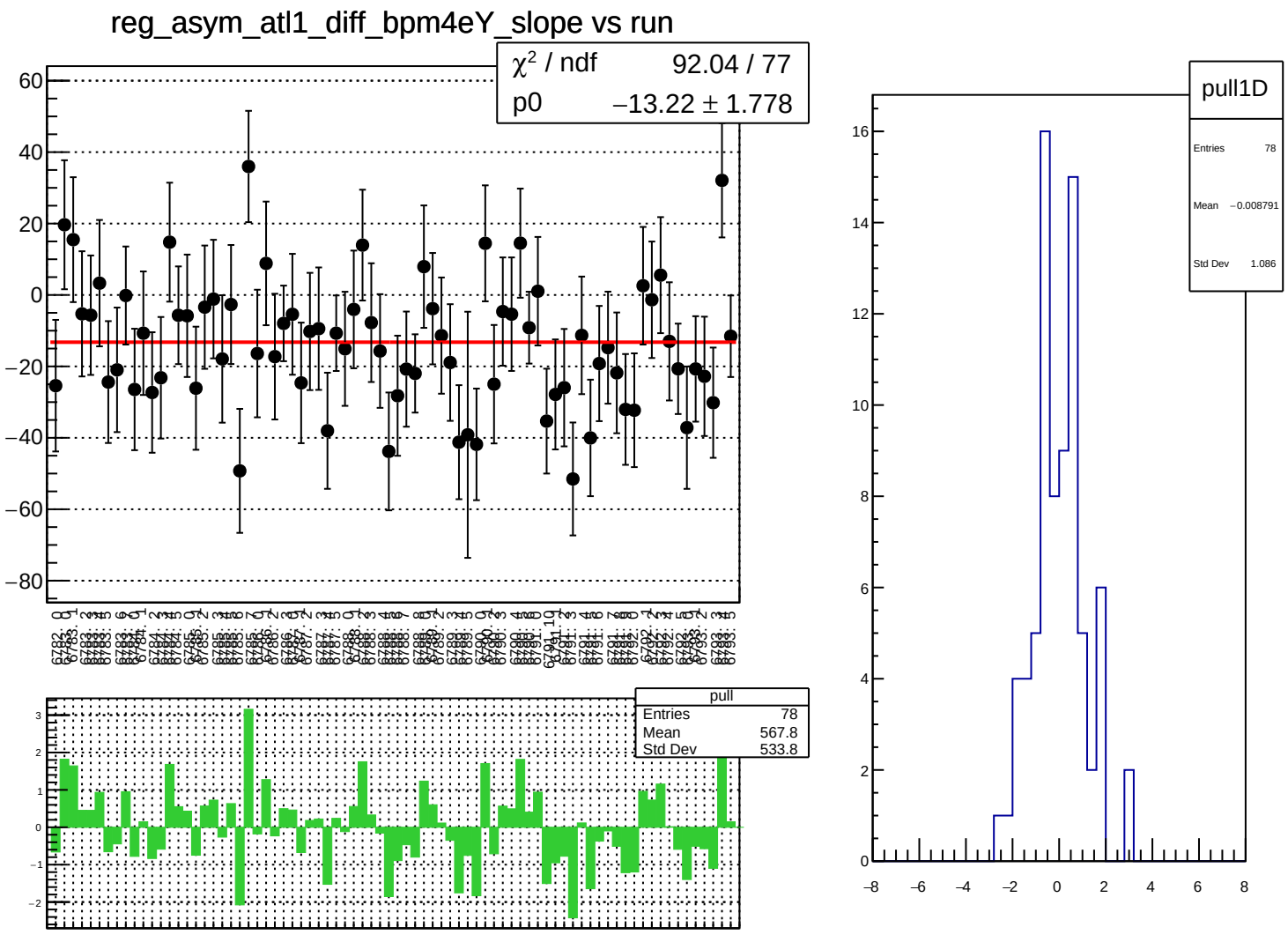

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 75.01 / 77
p0 −25.32 ± 2.718
pull
Entries 78
Mean −285.3
Std Dev 312.8

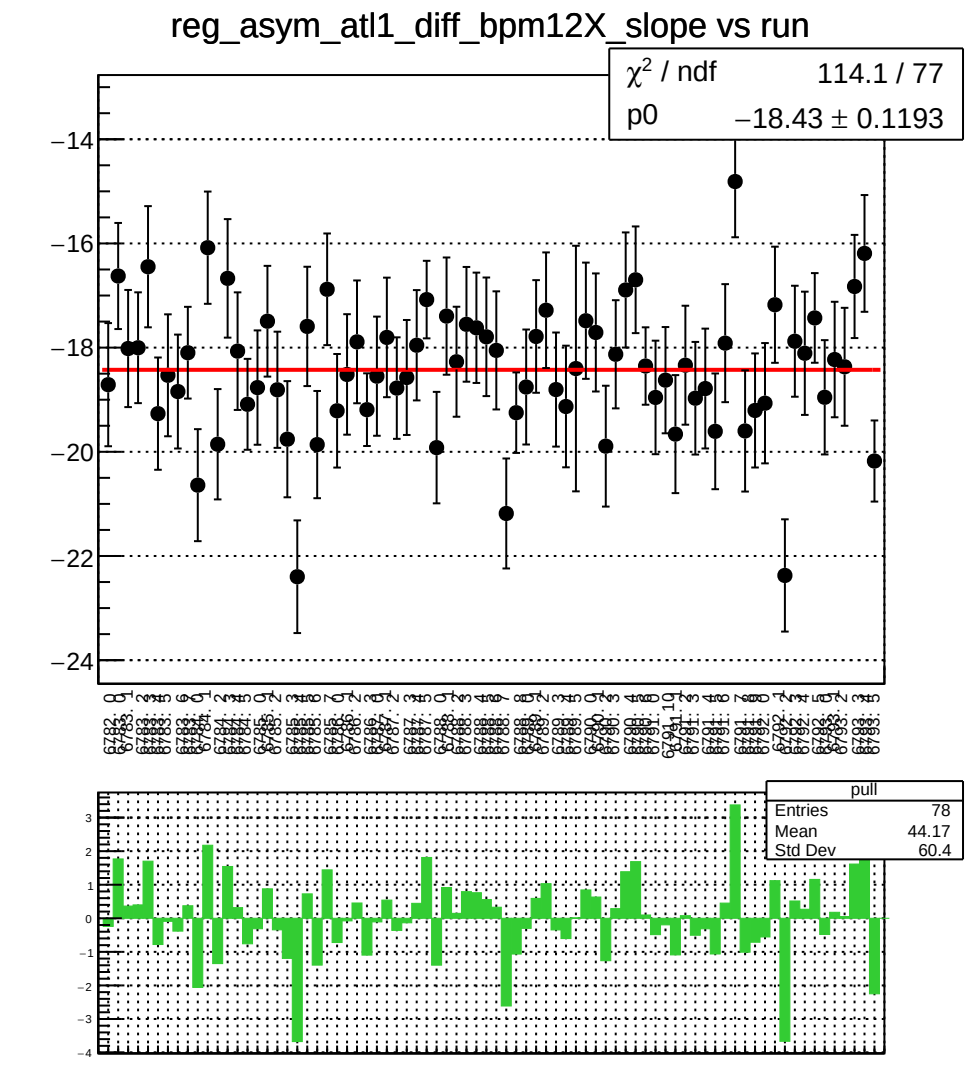

pull1D
Entries 78
Mean 0.008815
Std Dev 0.9806

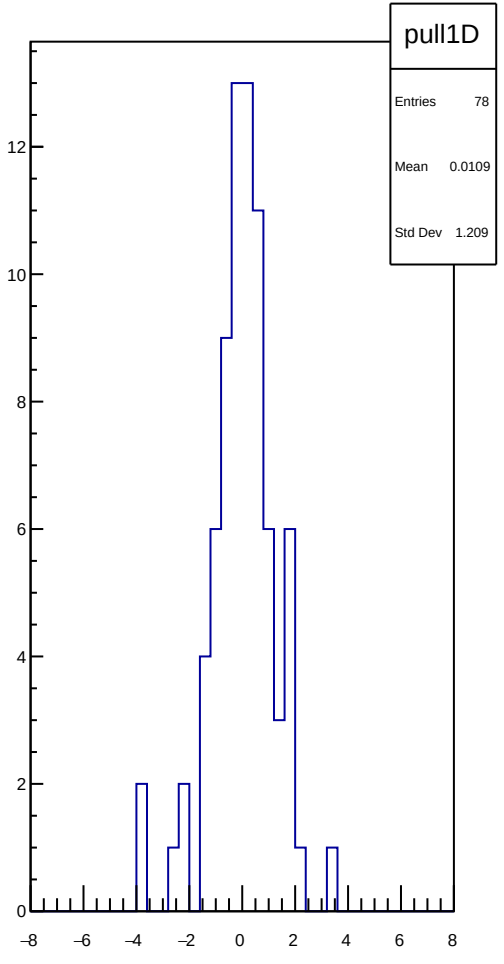

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 90.93 / 77
p0 7.458 ± 1.292
pull
Entries 78
Mean 1314
Std Dev 1281

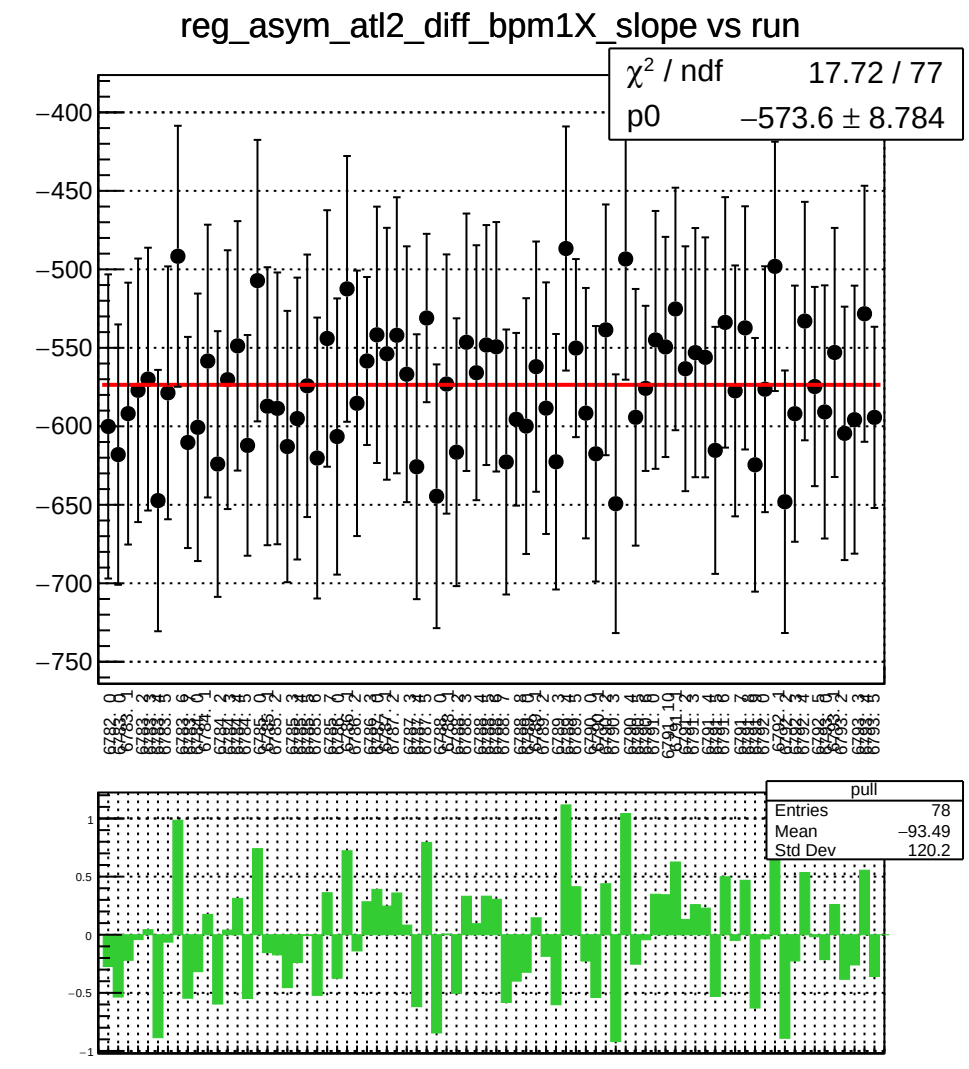

pull1D
Entries 78
Mean 0.003843
Std Dev 1.08

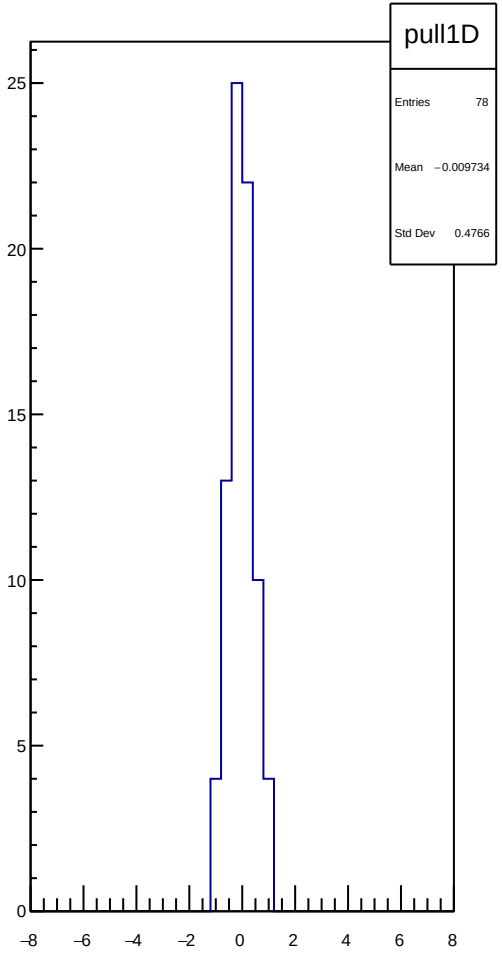

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 76.08 / 77
p0 61.19 ± 2.538
pull
Entries 78
Mean −263.3
Std Dev 291.8
pull1D
Entries 78
Mean −0.01028
Std Dev 0.9875

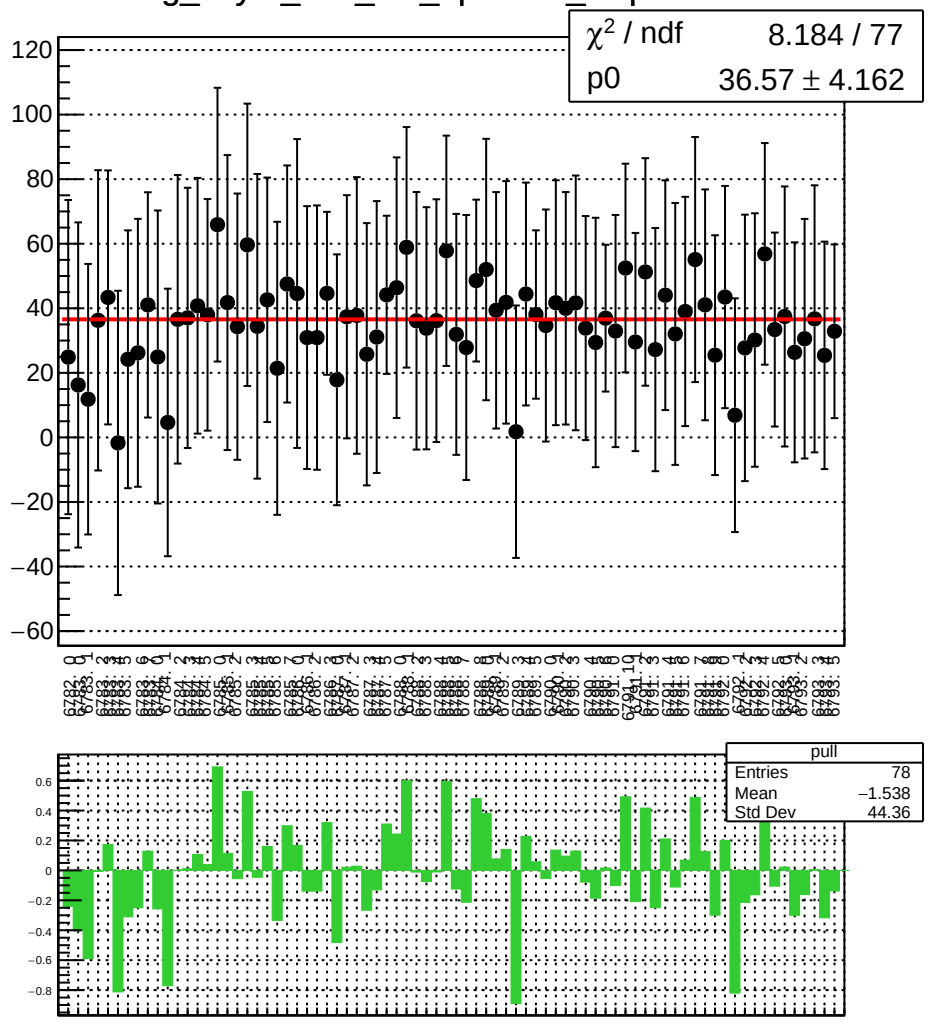

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 92.04 / 77
p0 −13.22 ± 1.778
pull
Entries 78
Mean 567.8
Std Dev 533.8
pull1D
Entries 78
Mean −0.008791
Std Dev 1.086

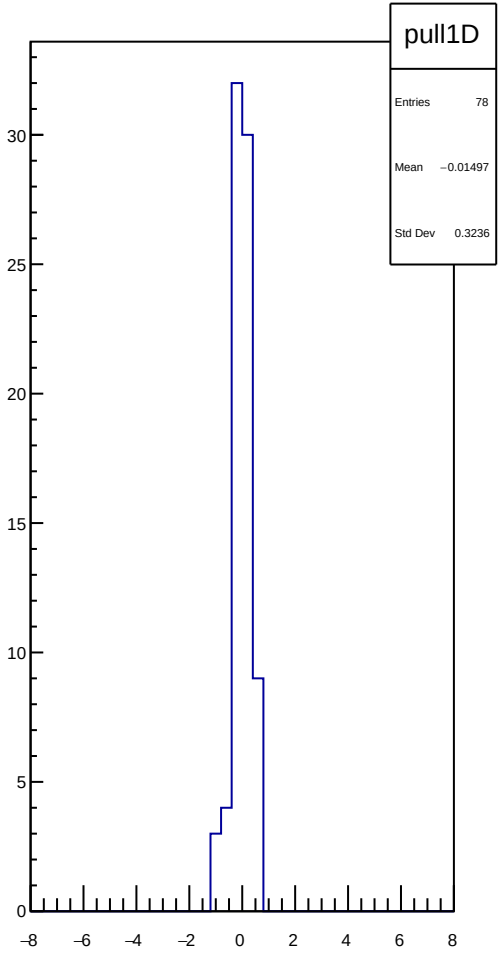

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 114.1 / 77
p0 −18.43 ± 0.1193
pull
Entries 78
Mean 44.17
Std Dev 60.4

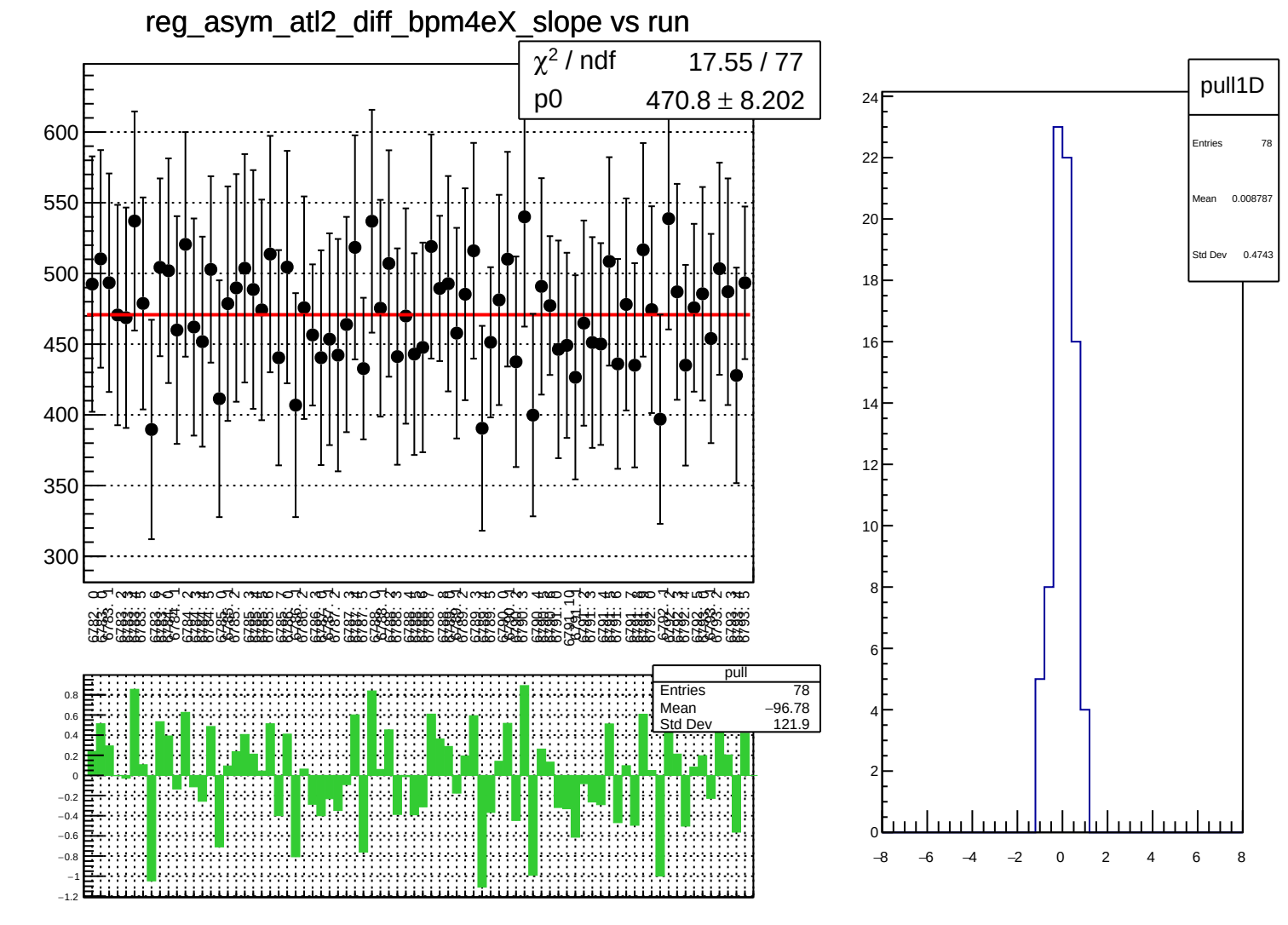

pull1D
Entries 78
Mean 0.0109
Std Dev 1.209

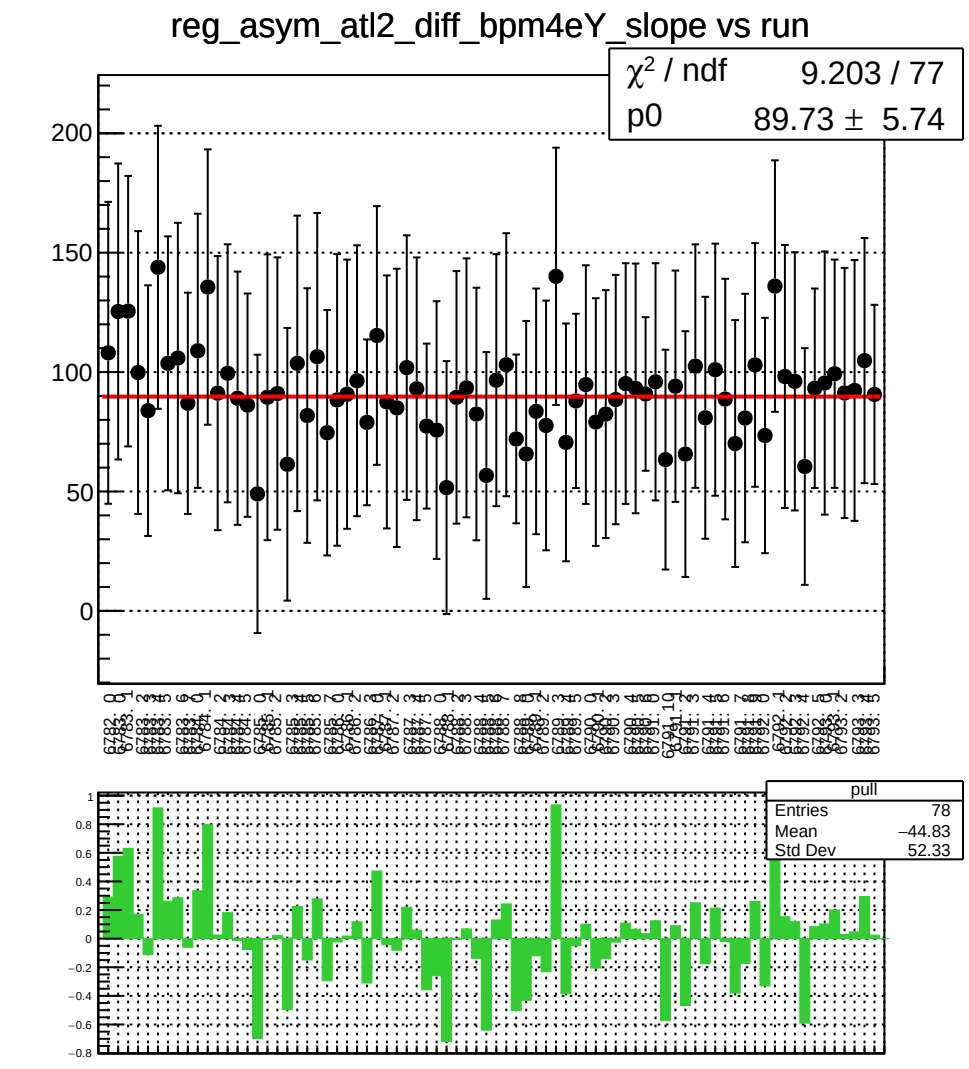

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 17.72 / 77
p0 −573.6 ± 8.784
pull
Entries 78
Mean −93.49
Std Dev 120.2

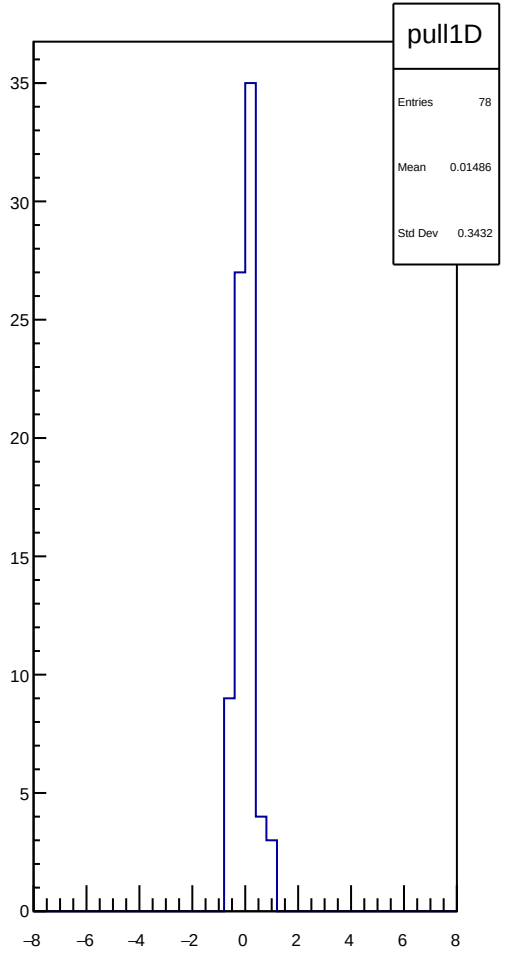

pull1D
Entries 78
Mean −0.009734
Std Dev 0.4766

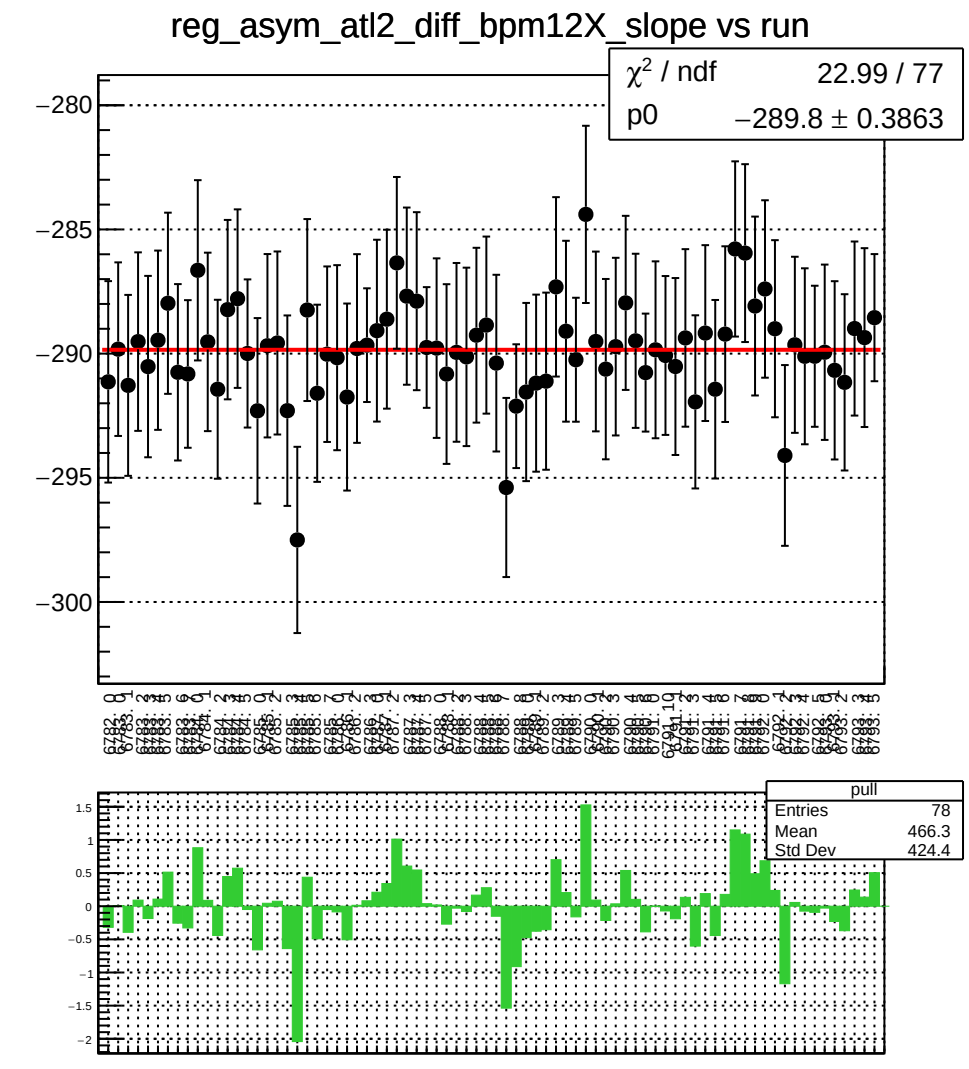

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 8.184 / 77
p0 36.57 ± 4.162
pull
Entries 78
Mean −1.538
Std Dev 44.36

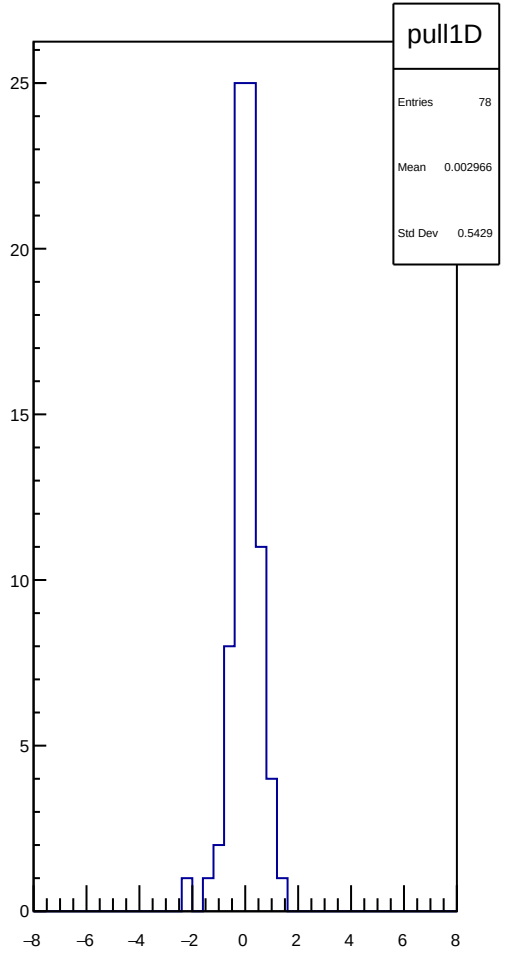

pull1D
Entries 78
Mean −0.01497
Std Dev 0.3236

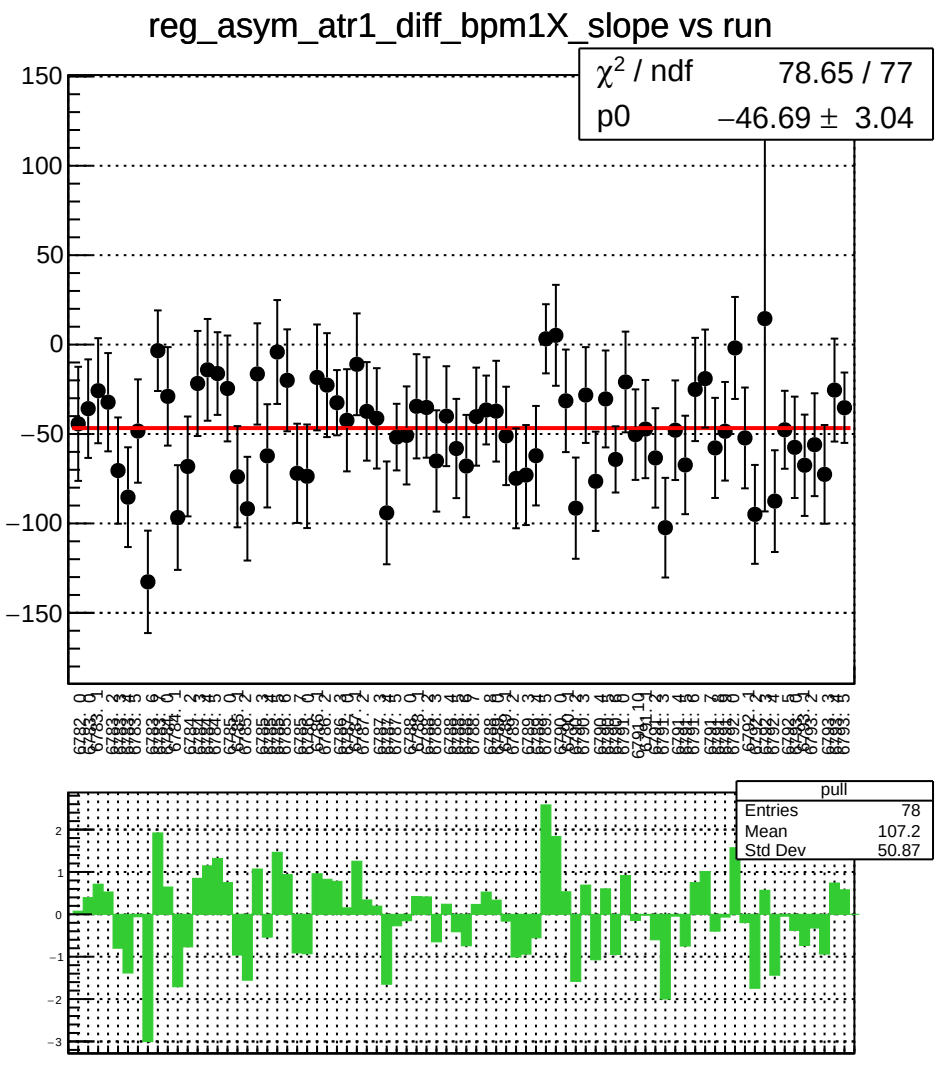

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 17.55 / 77
p0 470.8 ± 8.202
pull
Entries 78
Mean −96.78
Std Dev 121.9
pull1D
Entries 78
Mean 0.008787
Std Dev 0.4743

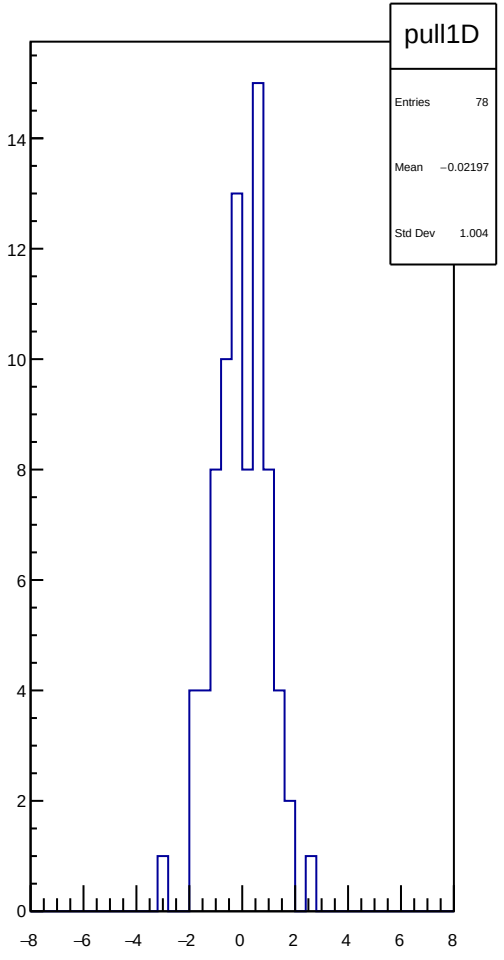

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 9.203 / 77
p0 89.73 ± 5.74
200
150
100
50
0
pull
Entries 78
Mean −44.83
Std Dev 52.33
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

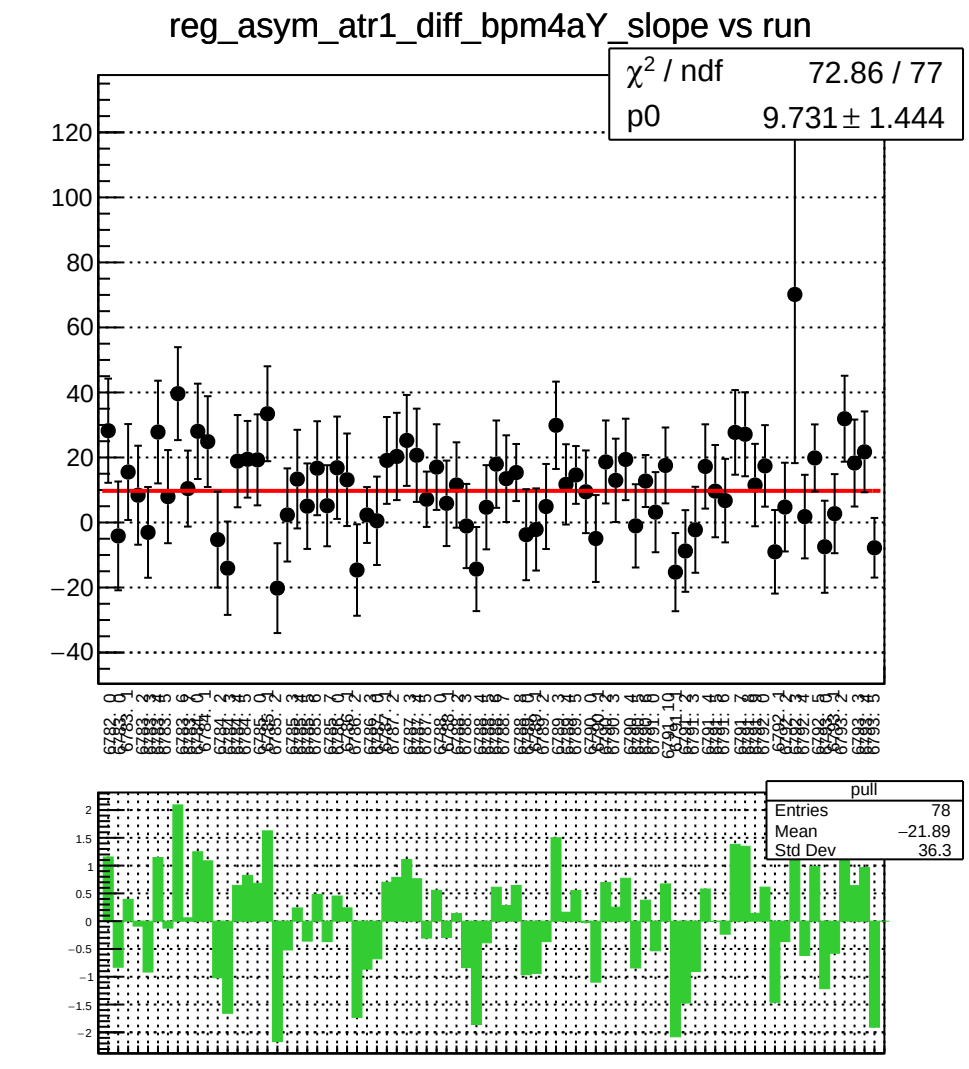

pull1D
Entries 78
Mean 0.01486
Std Dev 0.3432
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

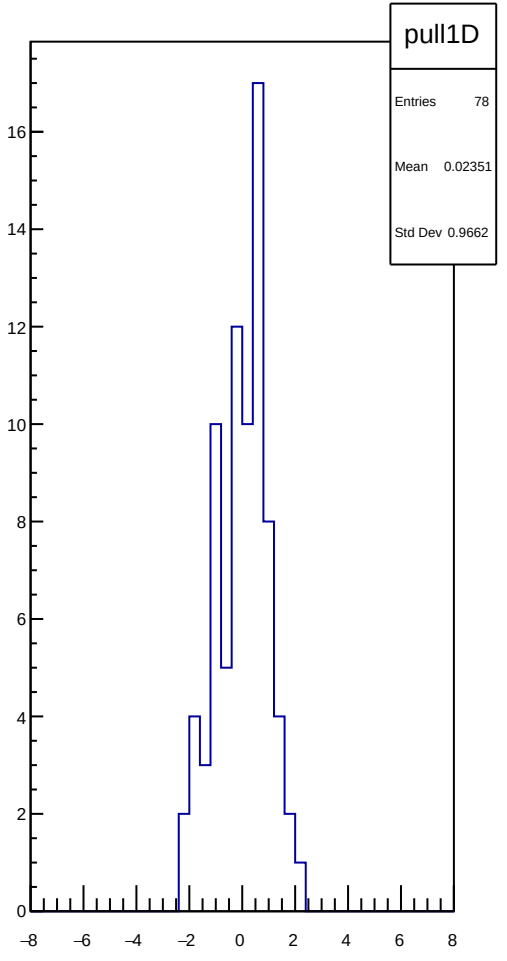

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 22.99 / 77
p0 −289.8 ± 0.3863
−280
−285
−290
−295
−300
pull
Entries 78
Mean 466.3
Std Dev 424.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

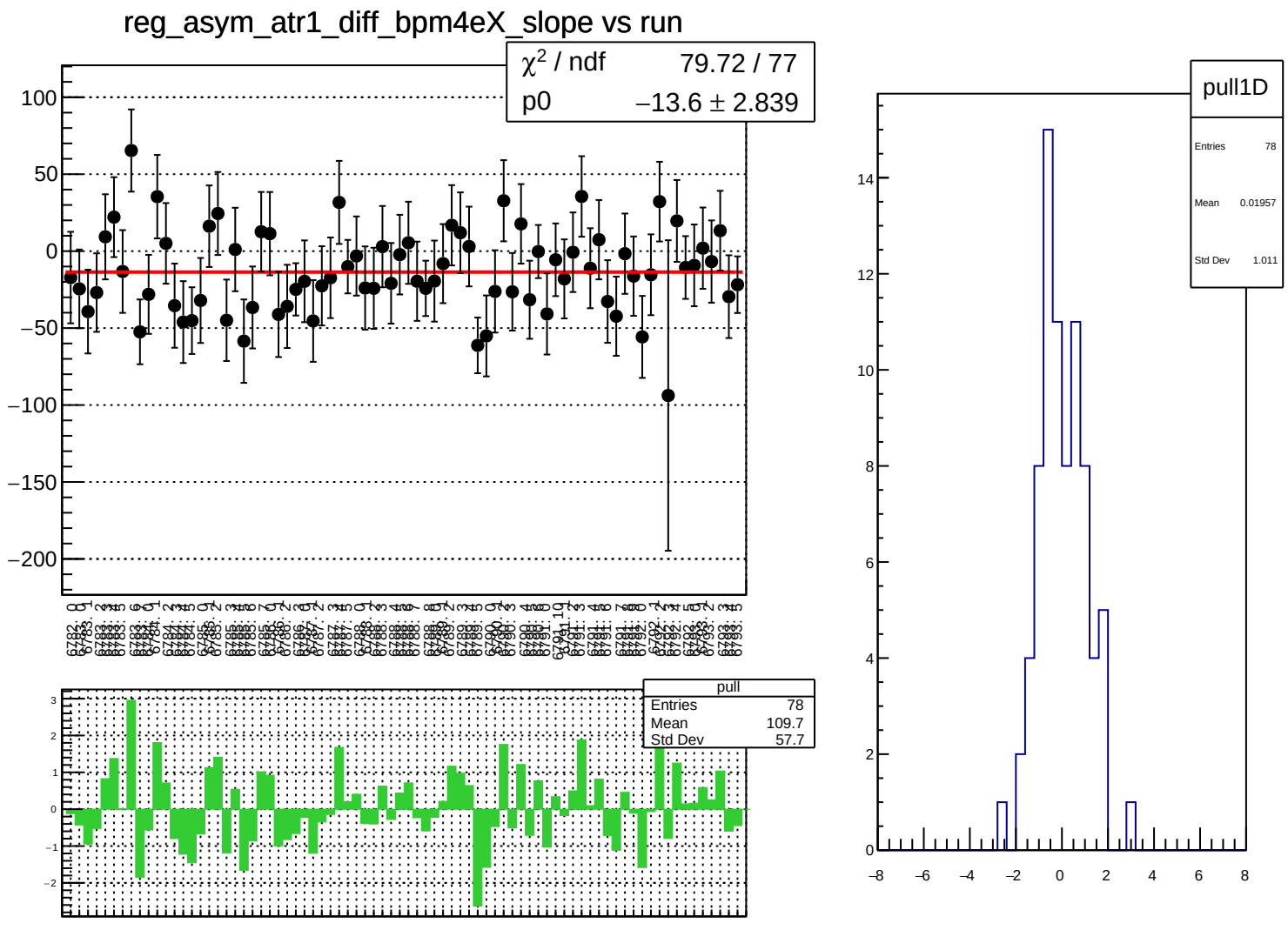

pull1D
Entries 78
Mean 0.002966
Std Dev 0.5429
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

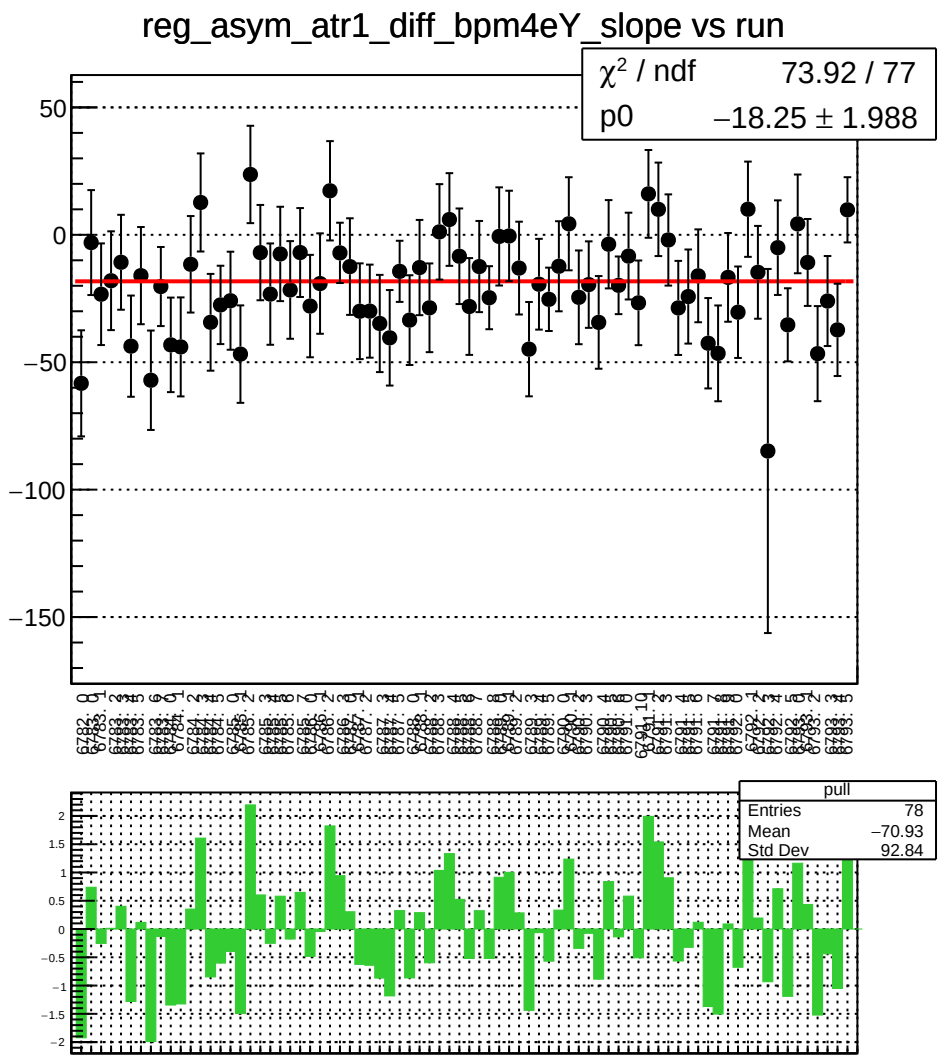

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 78.65 / 77
p0 −46.69 ± 3.04
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 107.2
Std Dev 50.87
2
1
0
−1
−2
−3

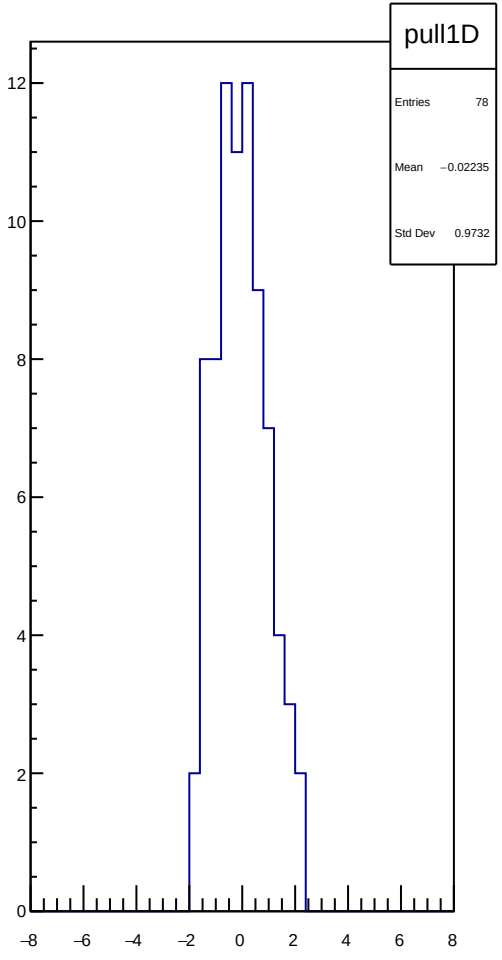

pull1D
Entries 78
Mean −0.02197
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

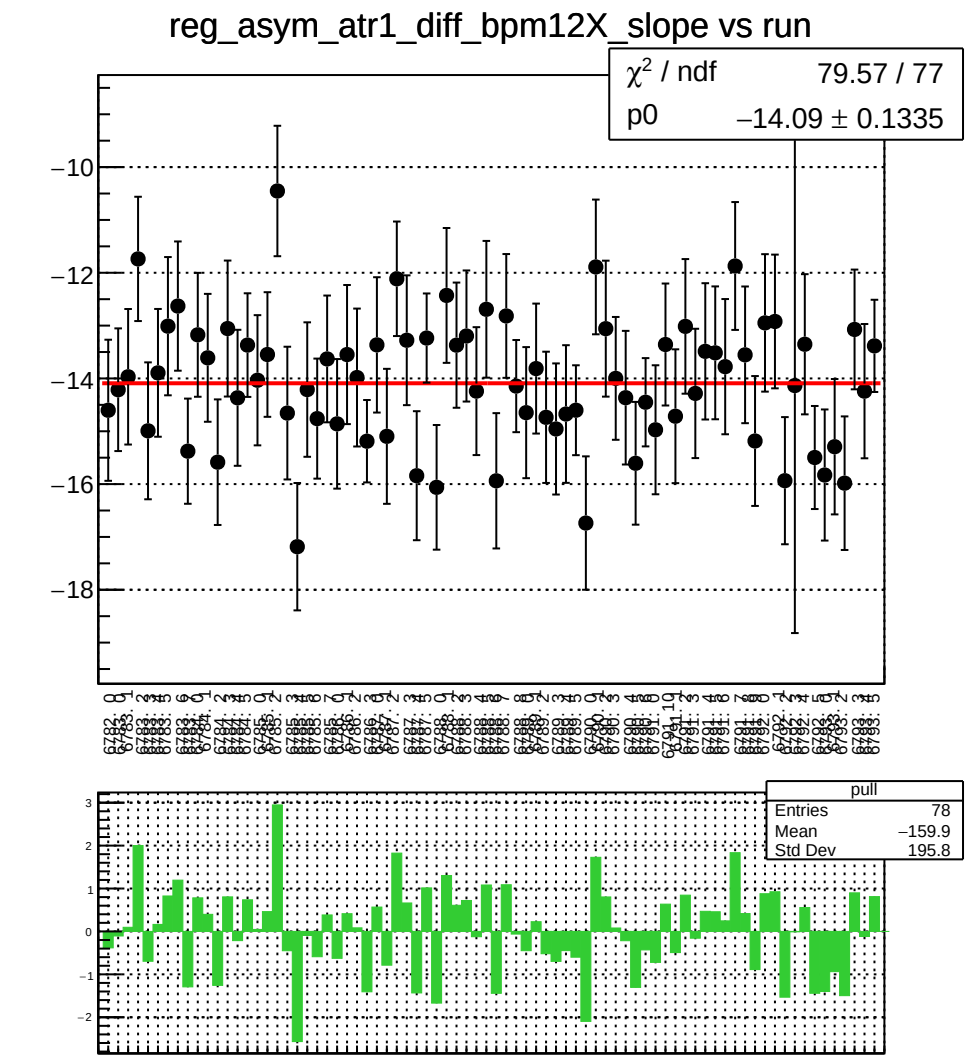

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 72.86 / 77
p0 9.731 ± 1.444
pull
Entries 78
Mean −21.89
Std Dev 36.3

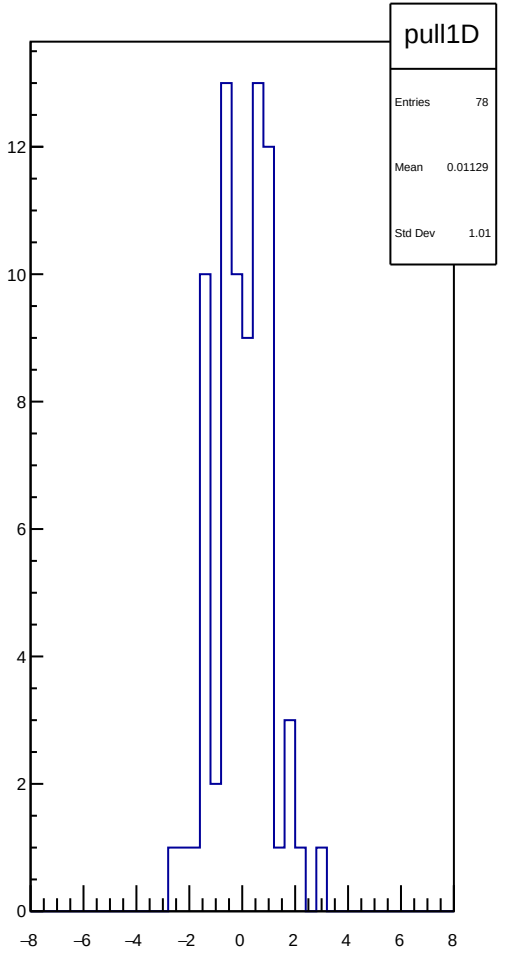

pull1D
Entries 78
Mean 0.02351
Std Dev 0.9662

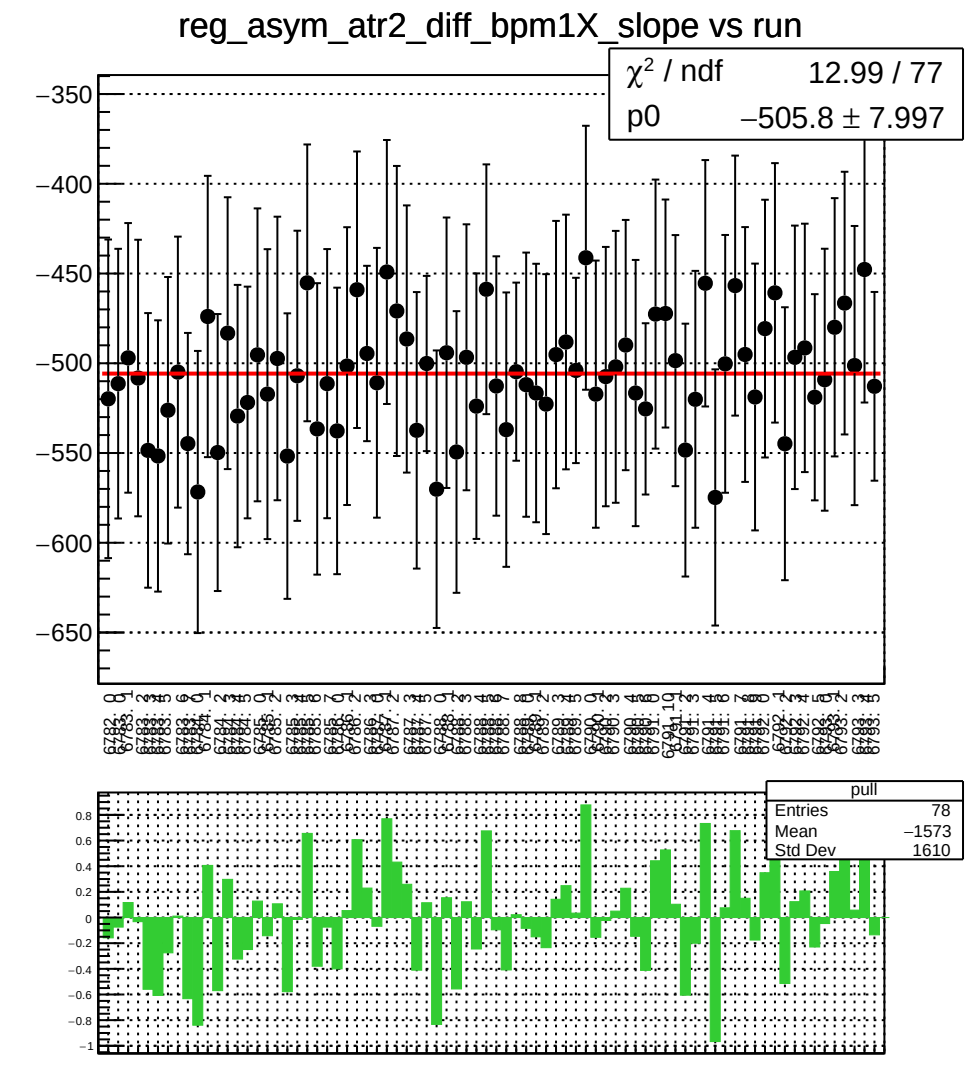

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 79.72 / 77
p0 −13.6 ± 2.839
pull
Entries 78
Mean 109.7
Std Dev 57.7
pull1D
Entries 78
Mean 0.01957
Std Dev 1.011

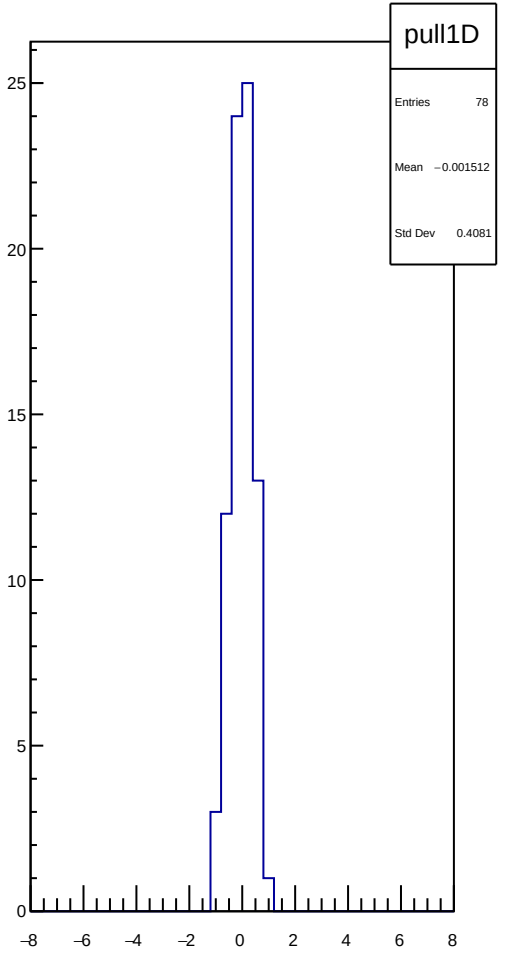

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 73.92 / 77
p0 −18.25 ± 1.988
pull
Entries 78
Mean −70.93
Std Dev 92.84

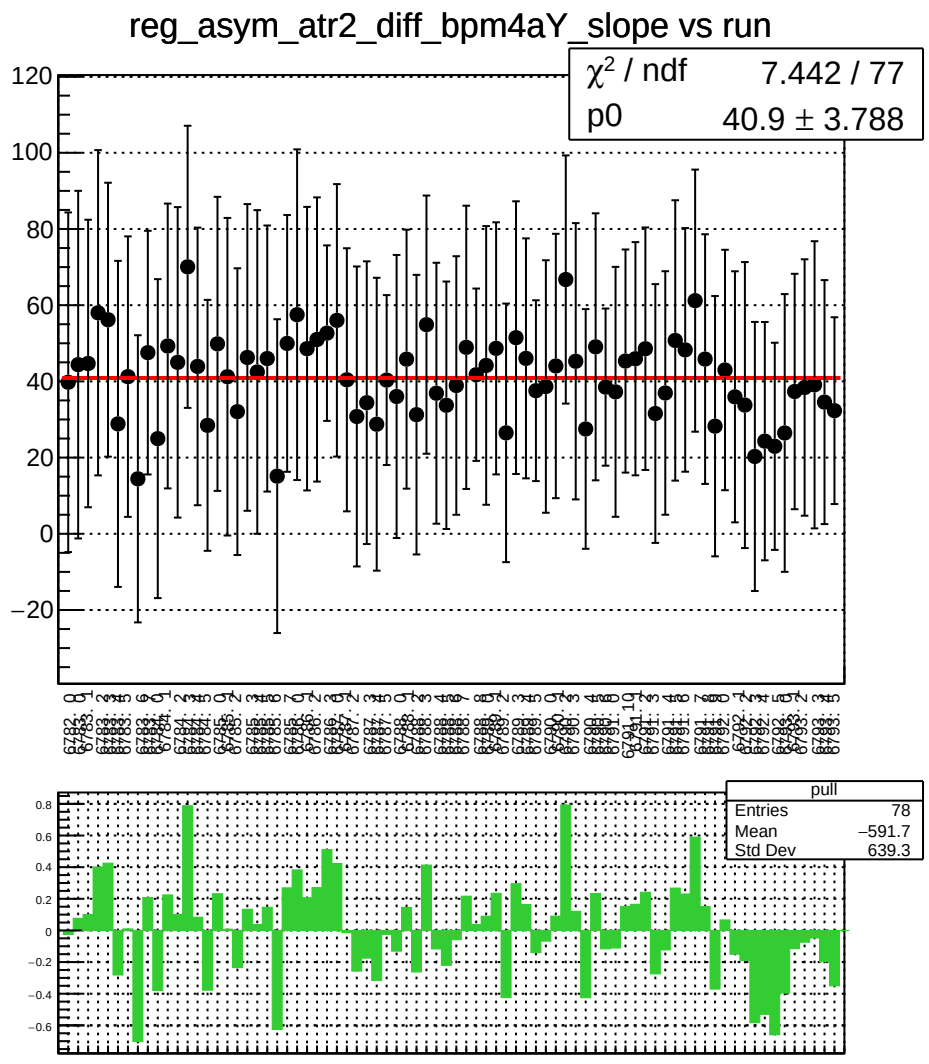

pull1D
Entries 78
Mean −0.02235
Std Dev 0.9732

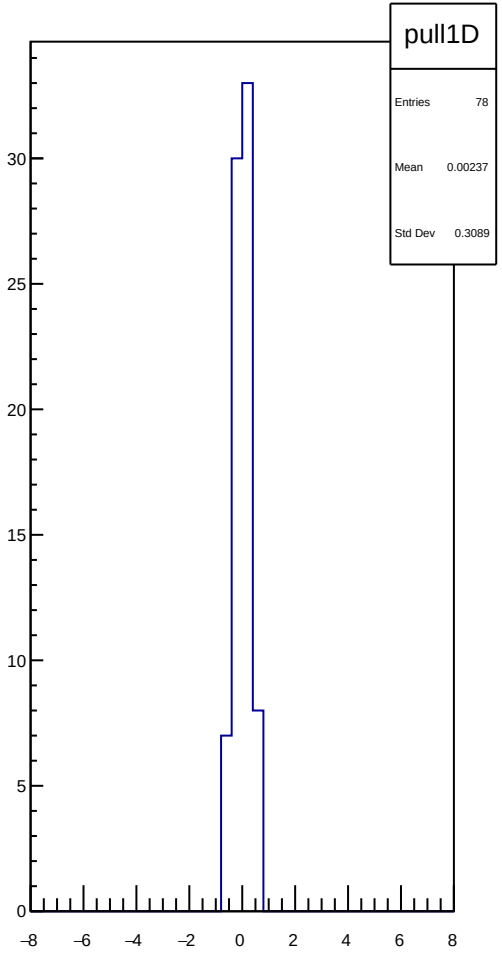

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 79.57 / 77
p0 −14.09 ± 0.1335
pull
Entries 78
Mean −159.9
Std Dev 195.8

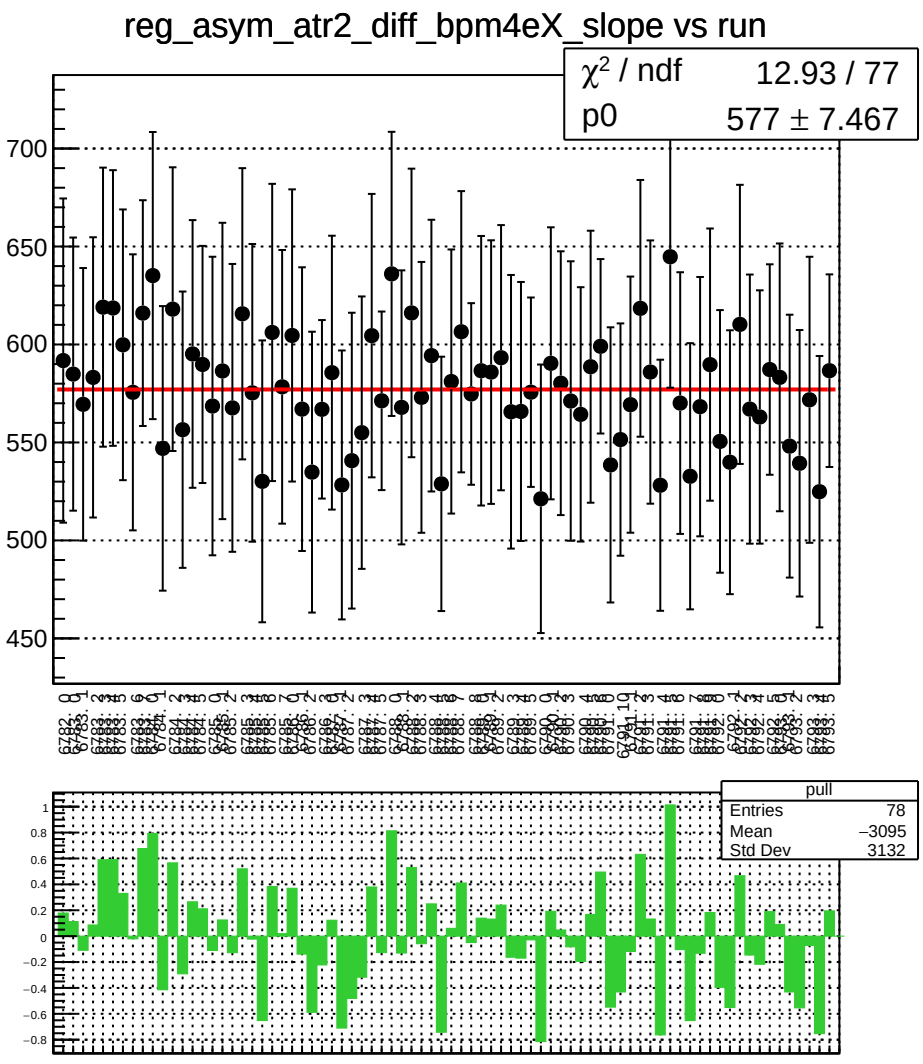

pull1D
Entries 78
Mean 0.01129
Std Dev 1.01

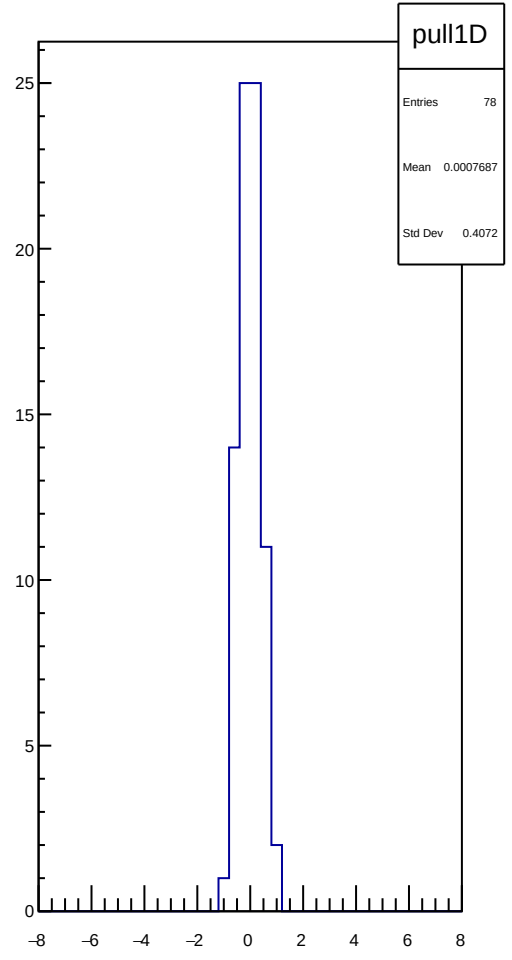

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 12.99 / 77
p0 −505.8 ± 7.997
pull
Entries 78
Mean −1573
Std Dev 1610

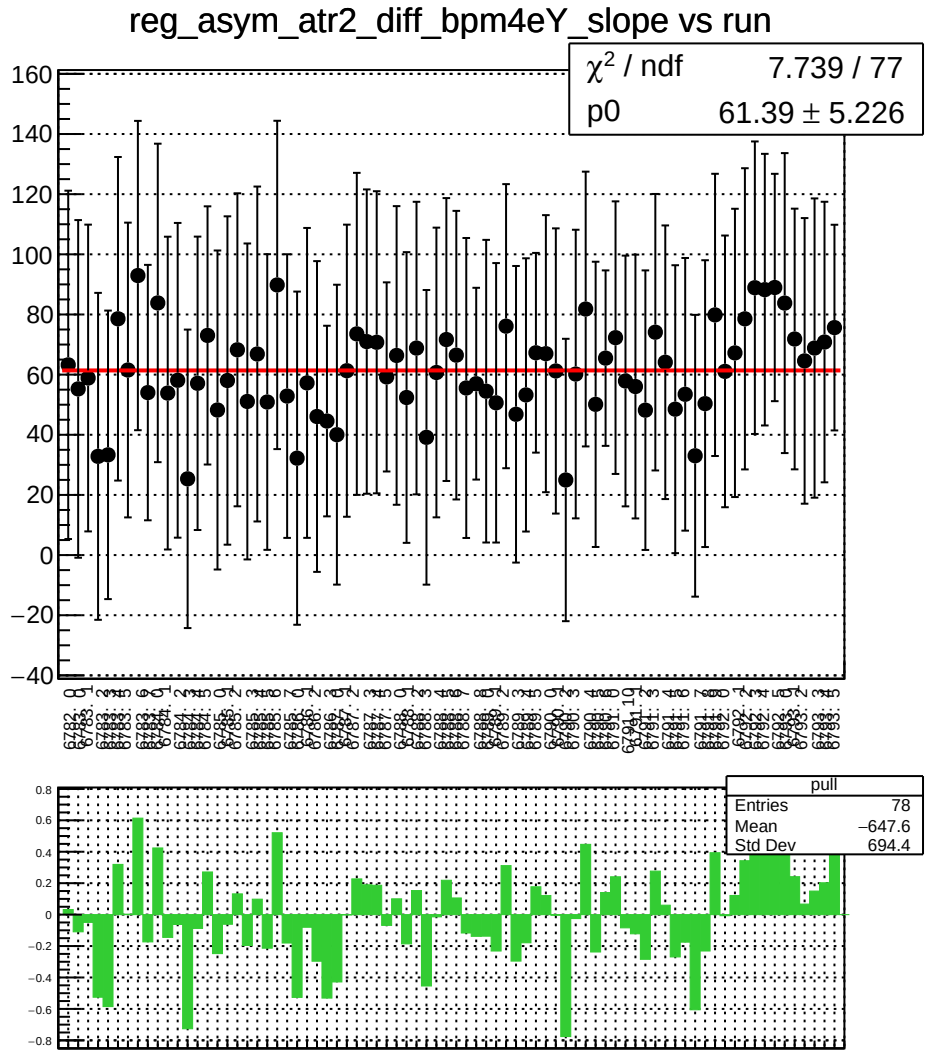

pull1D
Entries 78
Mean −0.001512
Std Dev 0.4081

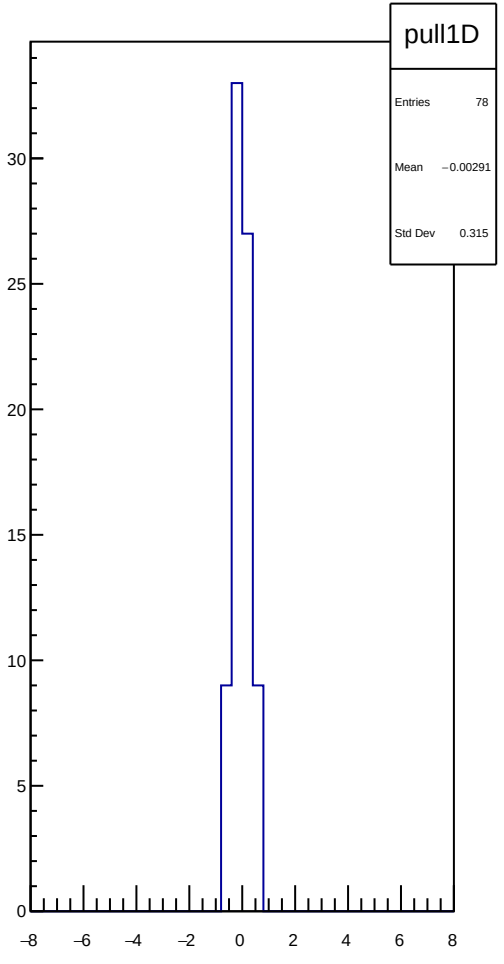

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 7.442 / 77
p0 40.9 ± 3.788
pull
Entries 78
Mean −591.7
Std Dev 639.3

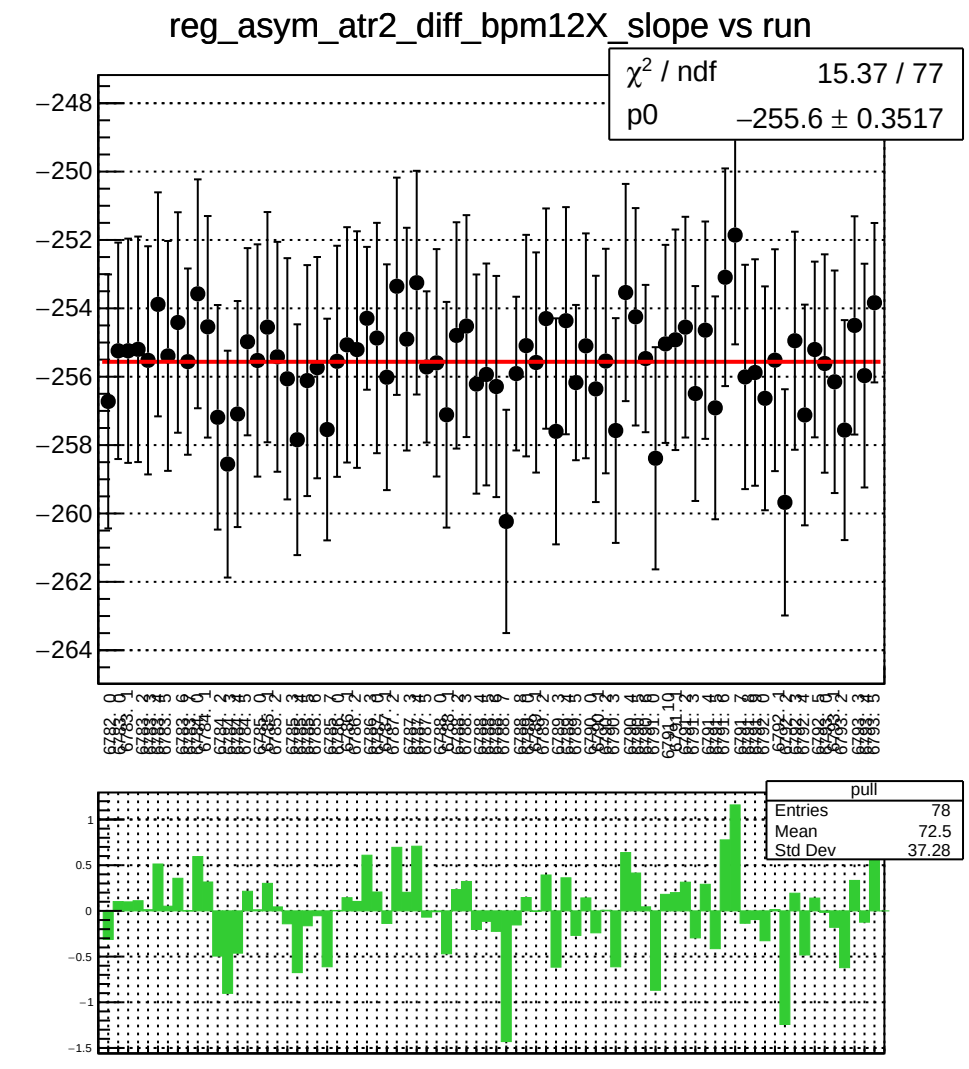

pull1D
Entries 78
Mean 0.00237
Std Dev 0.3089

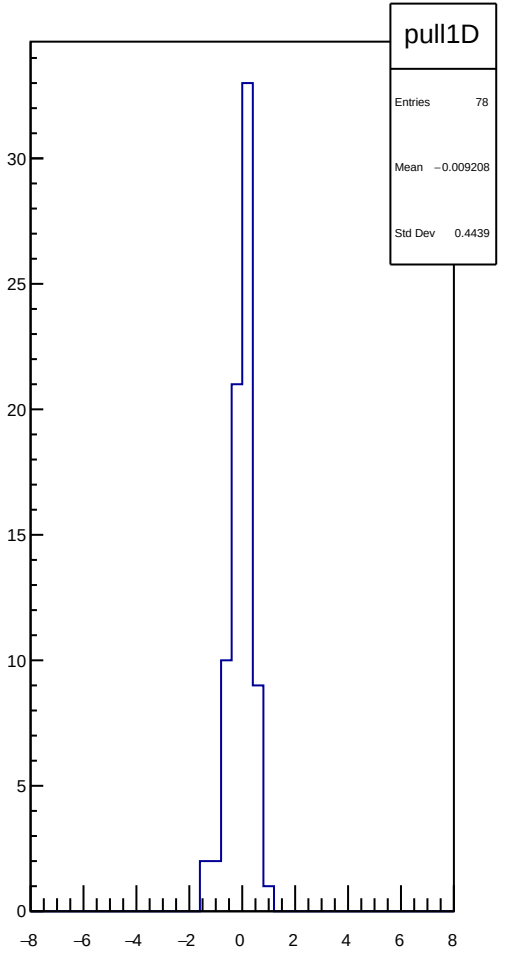

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 12.93 / 77
p0 577 ± 7.467
700
650
600
550
500
450
pull
Entries 78
Mean −3095
Std Dev 3132
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

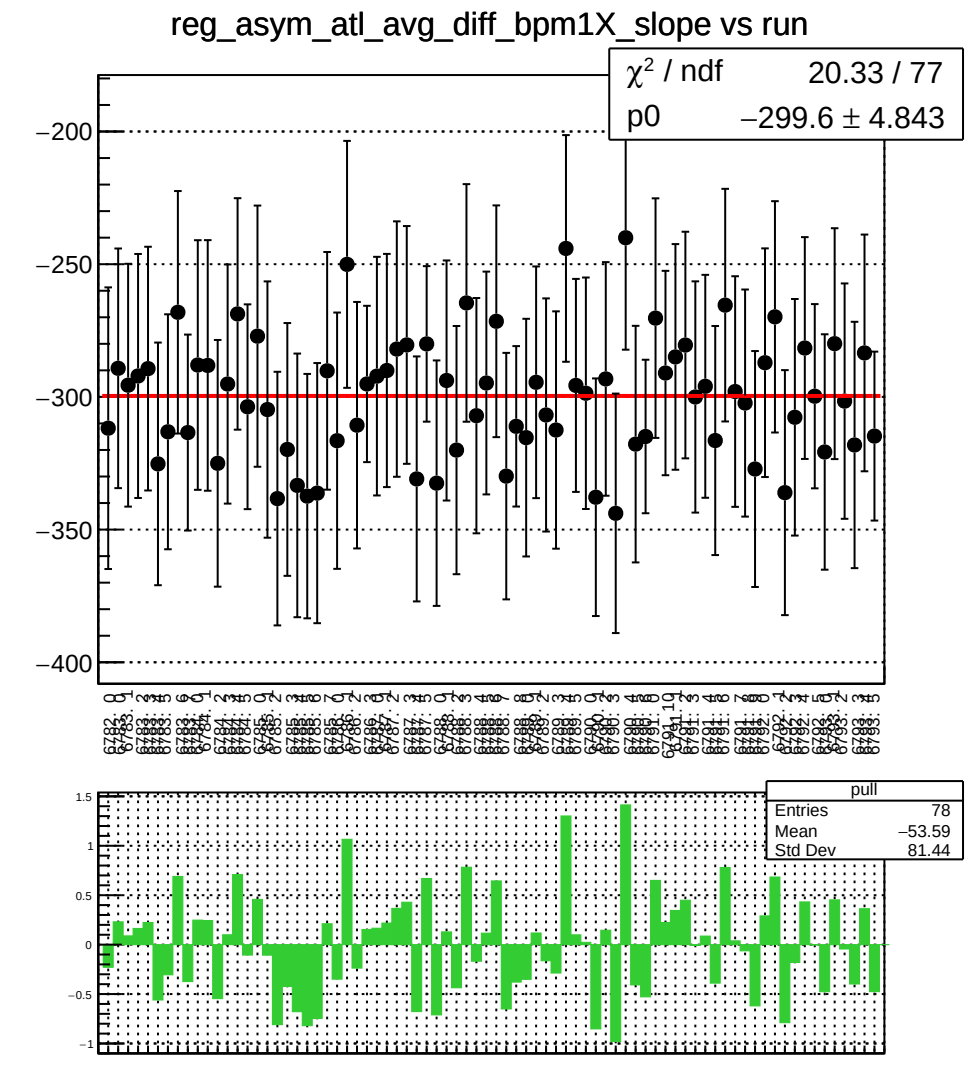

pull1D
Entries 78
Mean 0.0007687
Std Dev 0.4072
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

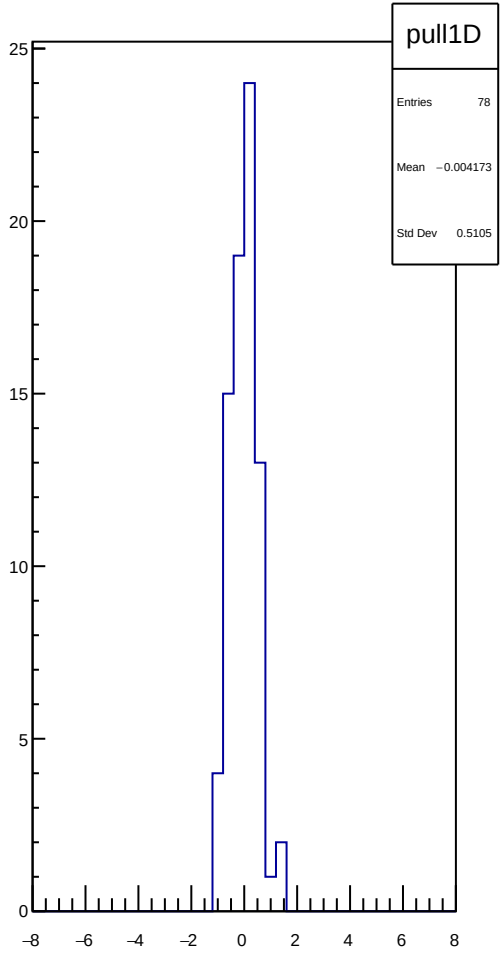

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 7.739 / 77
p0 61.39 ± 5.226
pull
Entries 78
Mean −647.6
Std Dev 694.4

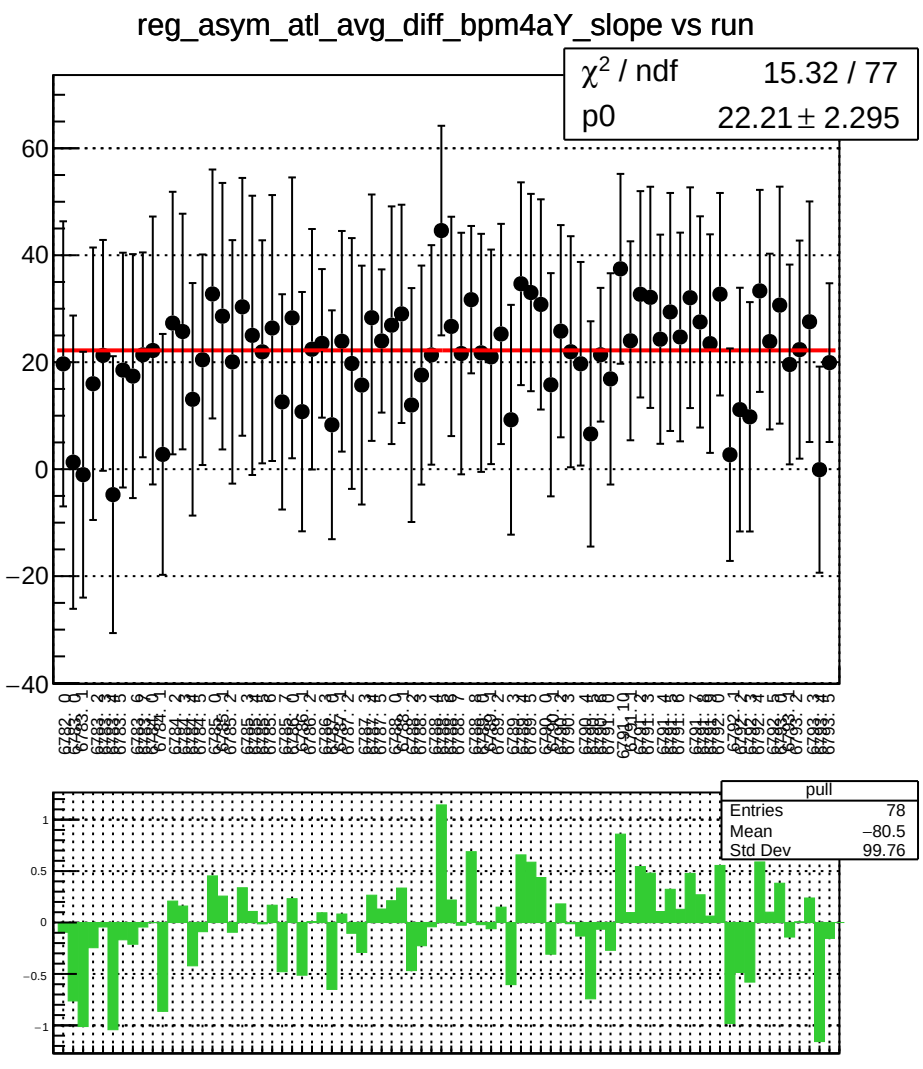

pull1D
Entries 78
Mean −0.00291
Std Dev 0.315

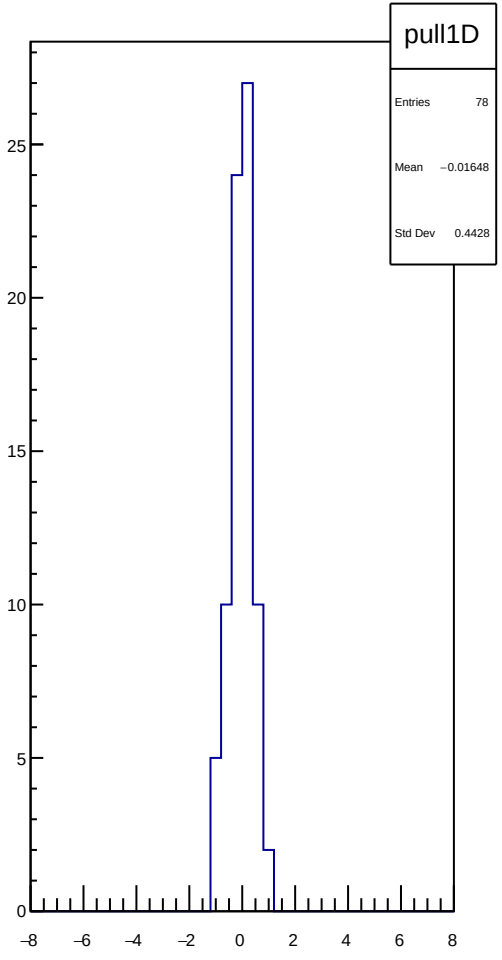

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 15.37 / 77
p0 −255.6 ± 0.3517
pull
Entries 78
Mean 72.5
Std Dev 37.28

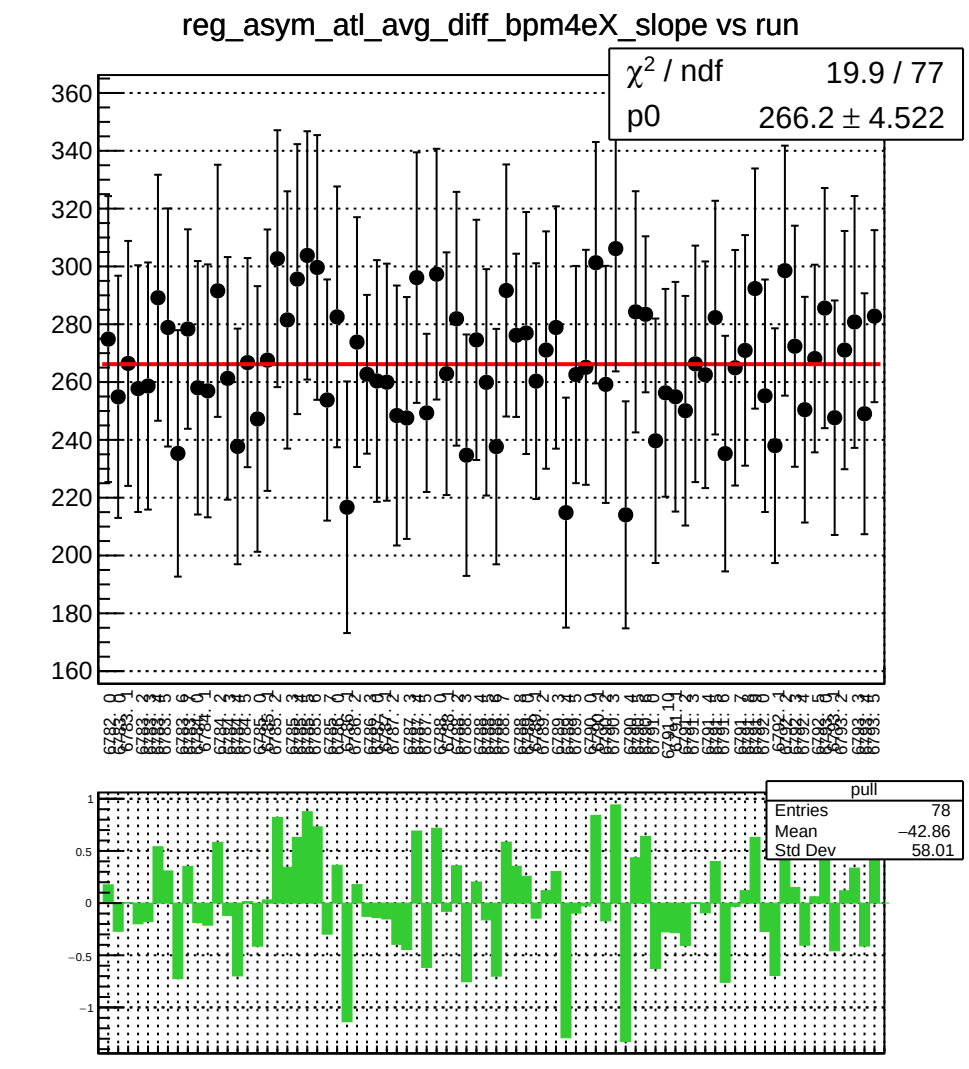

pull1D
Entries 78
Mean −0.009208
Std Dev 0.4439

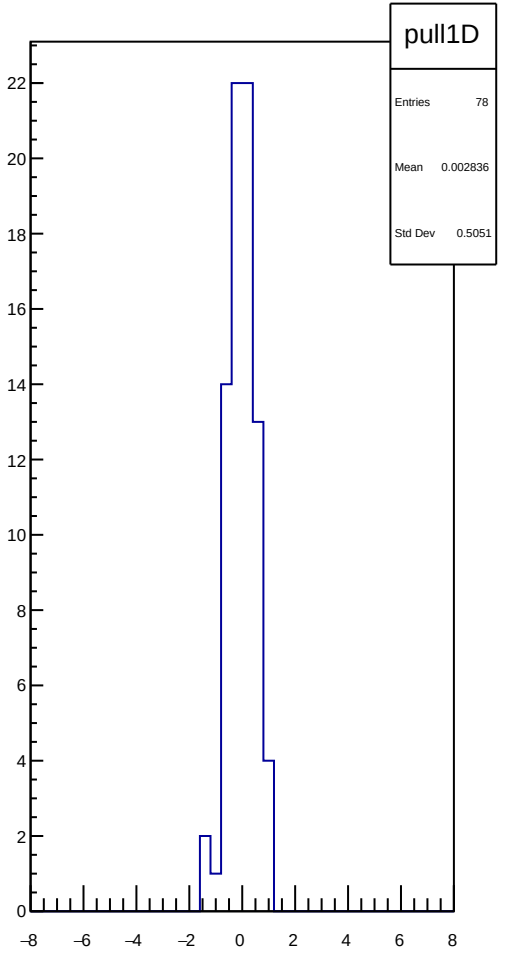

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 20.33 / 77
p0 −299.6 ± 4.843
−200
−250
−300
−350
−400
pull
Entries 78
Mean −53.59
Std Dev 81.44
1.5
1
0.5
0
−0.5
−1

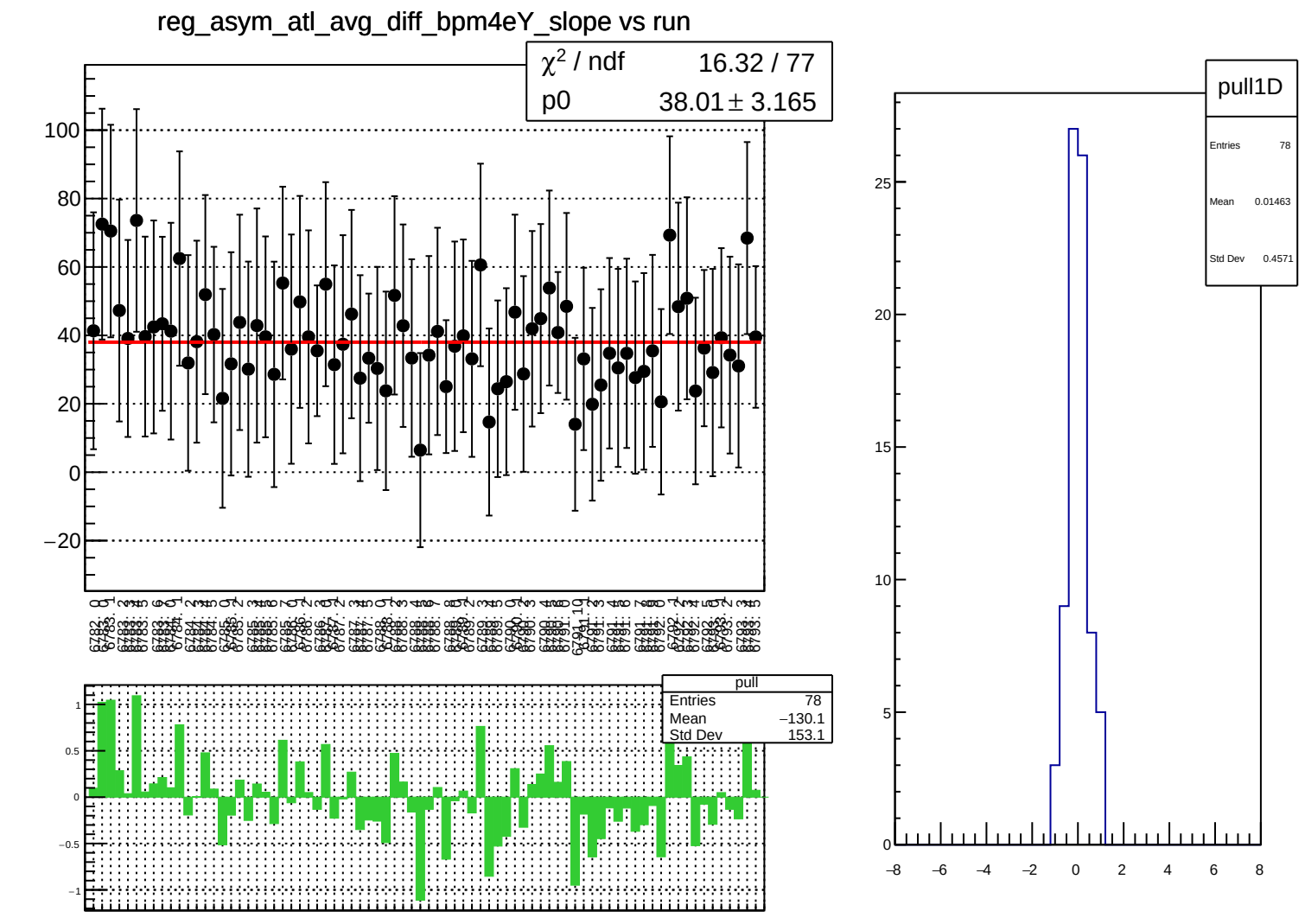

pull1D
Entries 78
Mean −0.004173
Std Dev 0.5105
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

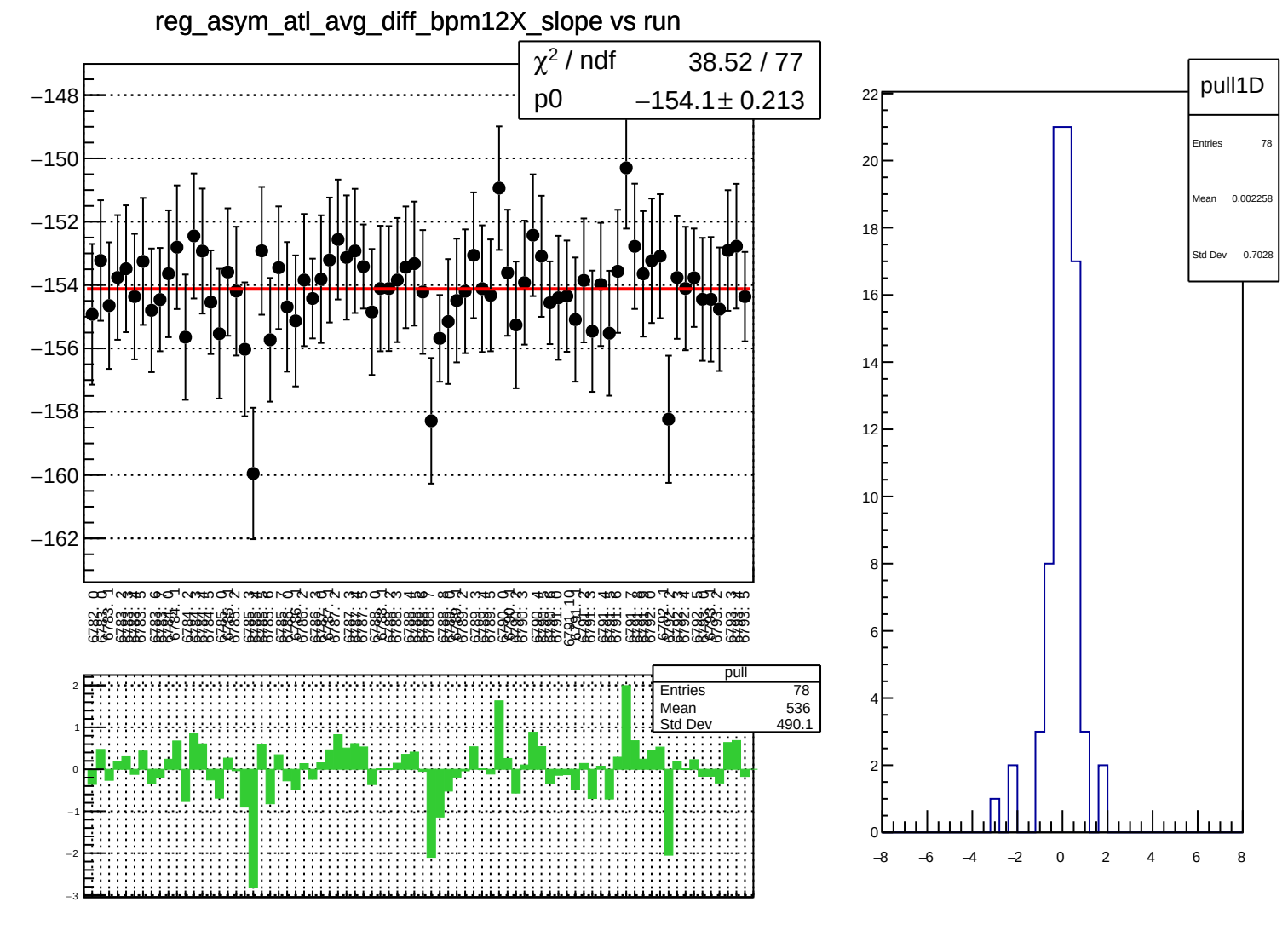

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.32 / 77
p0 22.21 ± 2.295
pull
Entries 78
Mean −80.5
Std Dev 99.76

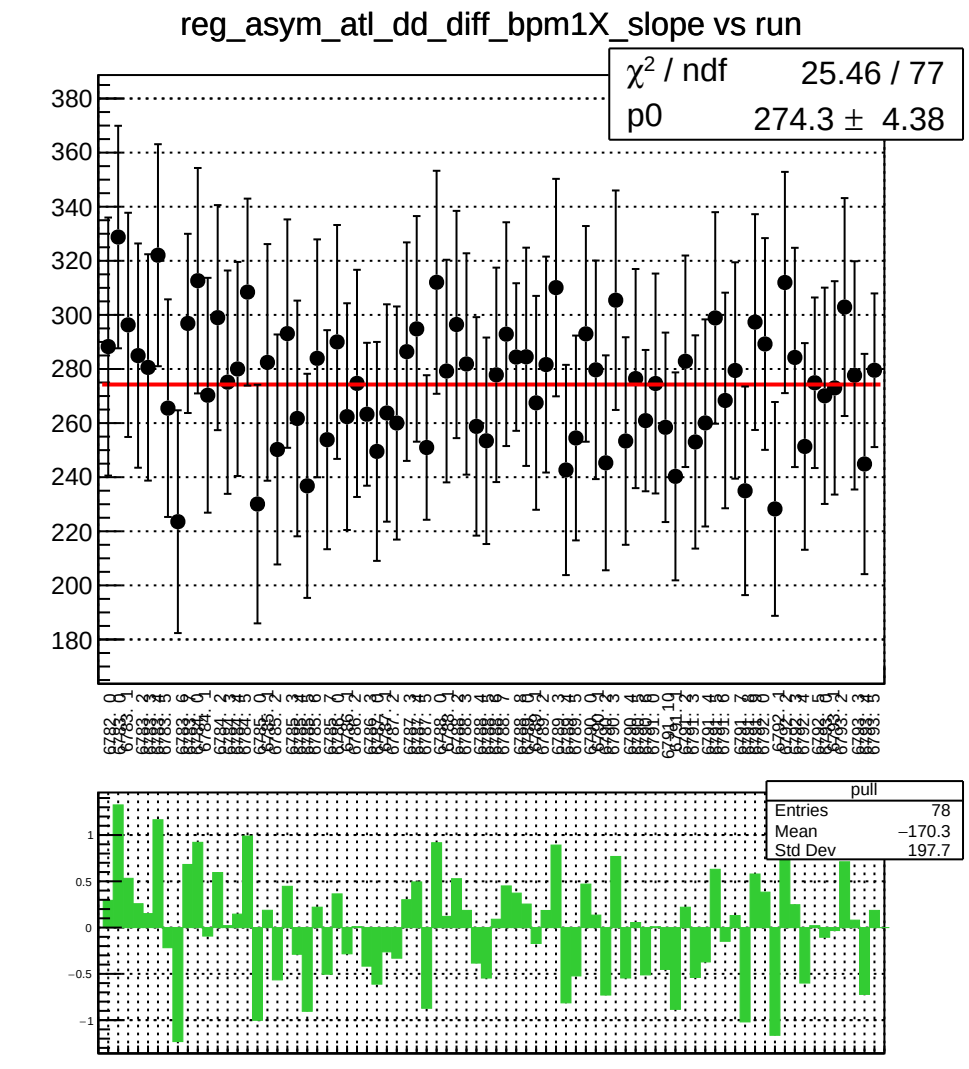

pull1D
Entries 78
Mean −0.01648
Std Dev 0.4428

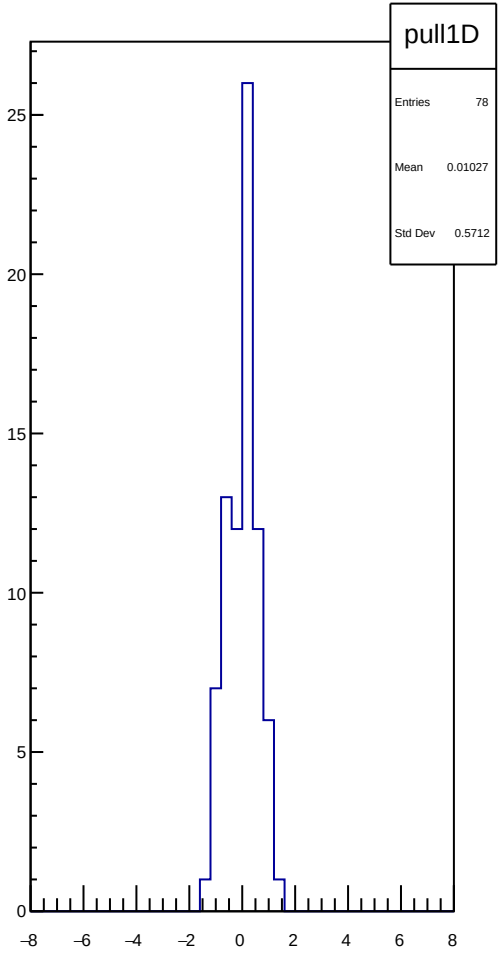

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.9 / 77
p0 266.2 ± 4.522
pull
Entries 78
Mean −42.86
Std Dev 58.01

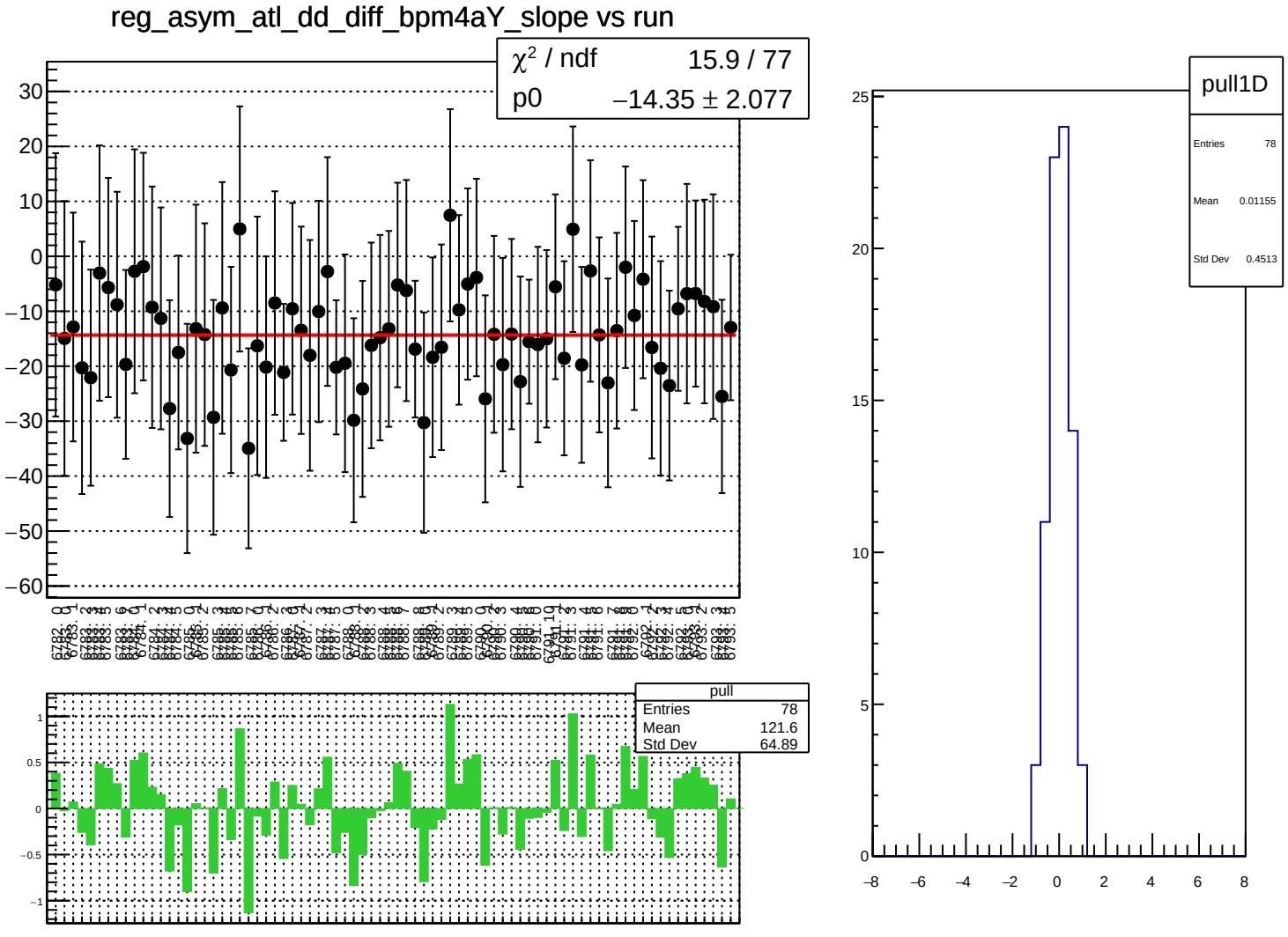

pull1D
Entries 78
Mean 0.002836
Std Dev 0.5051

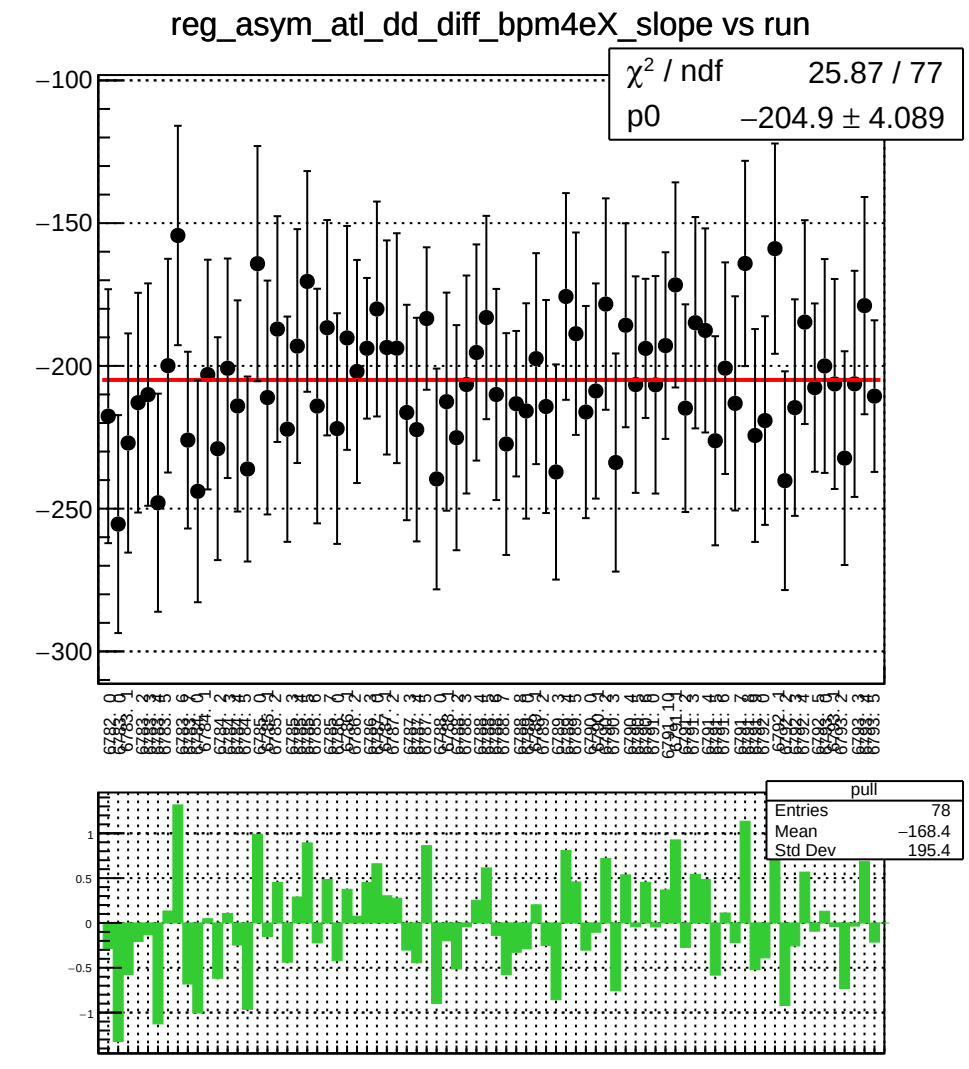

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.32 / 77
p0 38.01 ± 3.165
pull
Entries 78
Mean −130.1
Std Dev 153.1
pull1D
Entries 78
Mean 0.01463
Std Dev 0.4571

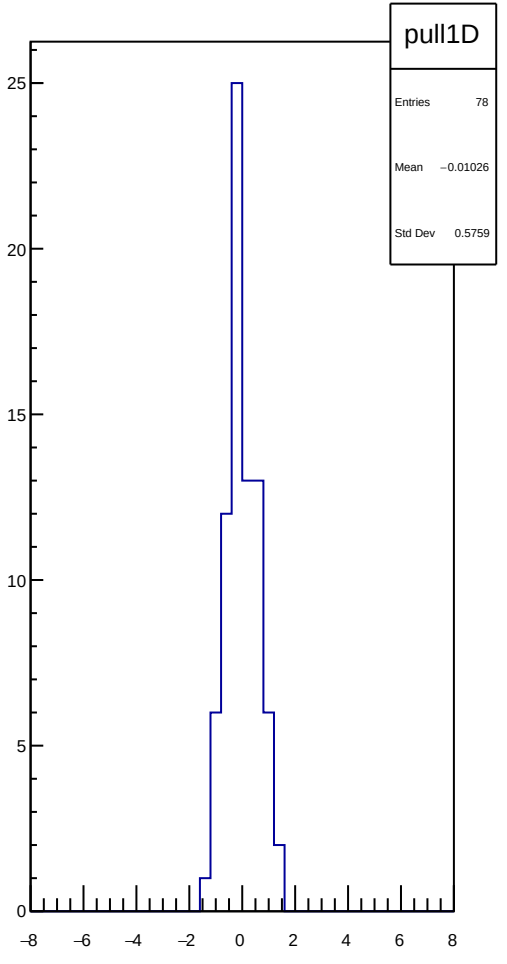

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 38.52 / 77
p0 −154.1 ± 0.213
pull
Entries 78
Mean 536
Std Dev 490.1
pull1D
Entries 78
Mean 0.002258
Std Dev 0.7028

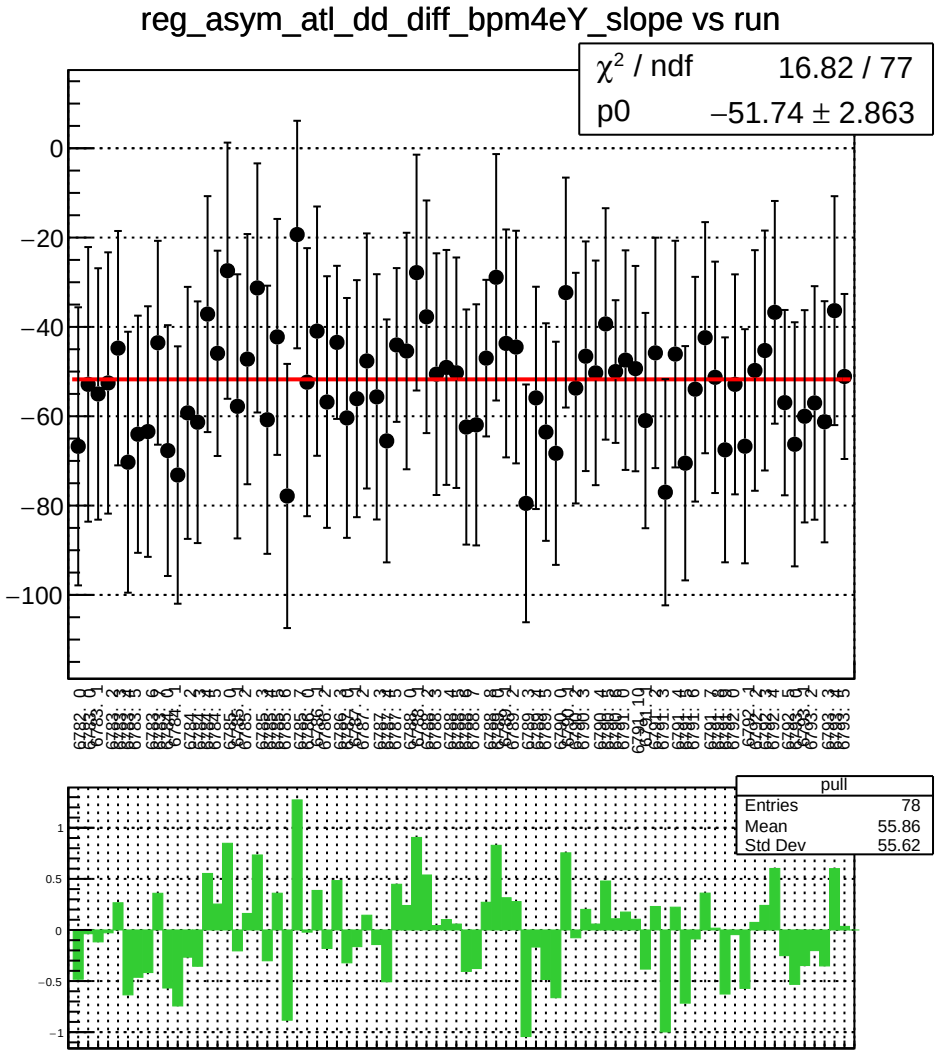

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 25.46 / 77
p0 274.3 ± 4.38
pull
Entries 78
Mean −170.3
Std Dev 197.7

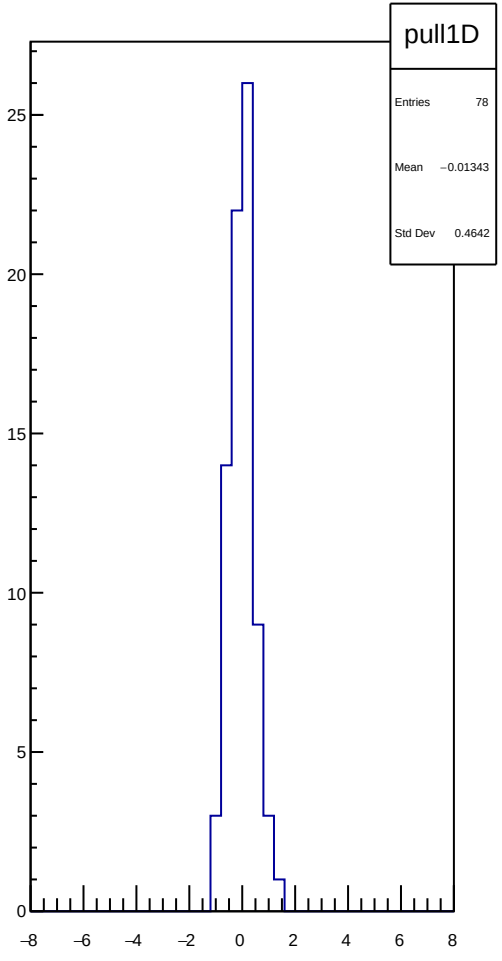

pull1D
Entries 78
Mean 0.01027
Std Dev 0.5712

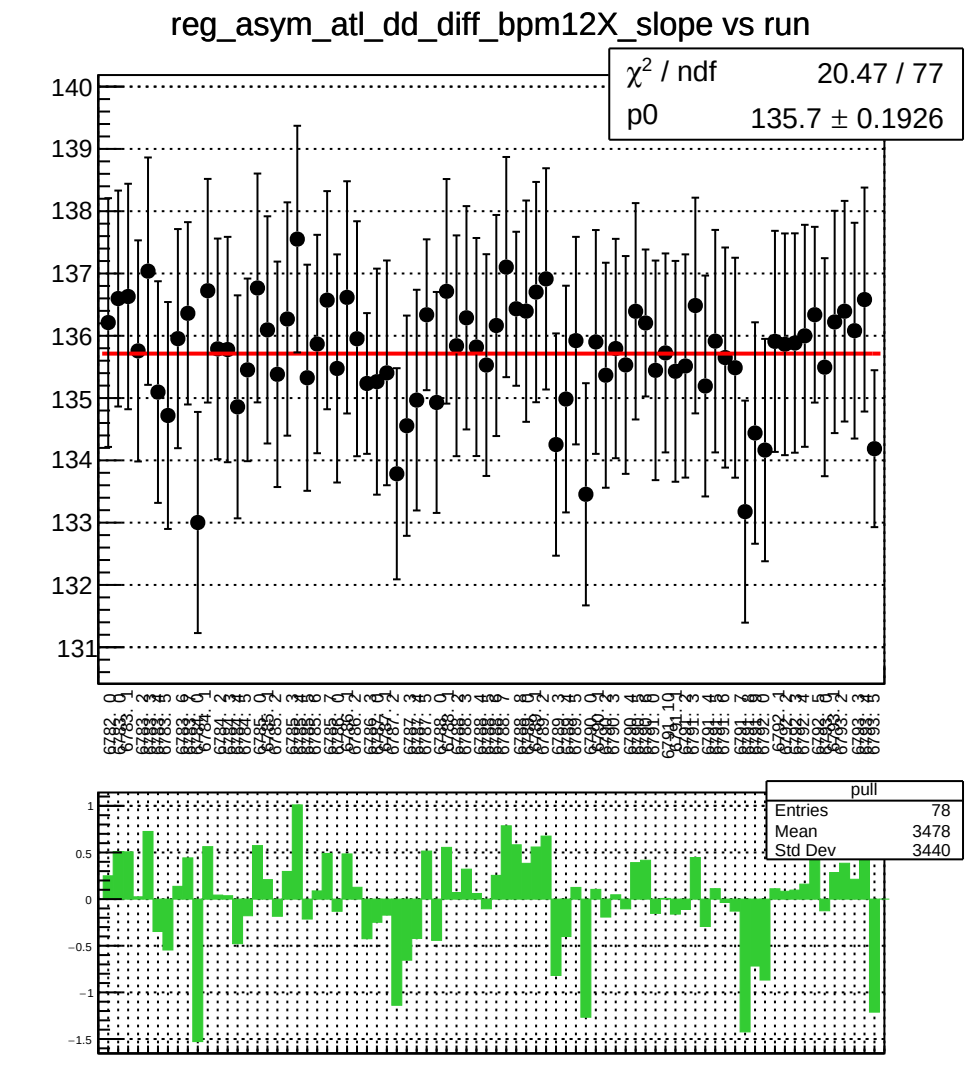

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.9 / 77
p0 −14.35 ± 2.077
pull
Entries 78
Mean 121.6
Std Dev 64.89
pull1D
Entries 78
Mean 0.01155
Std Dev 0.4513

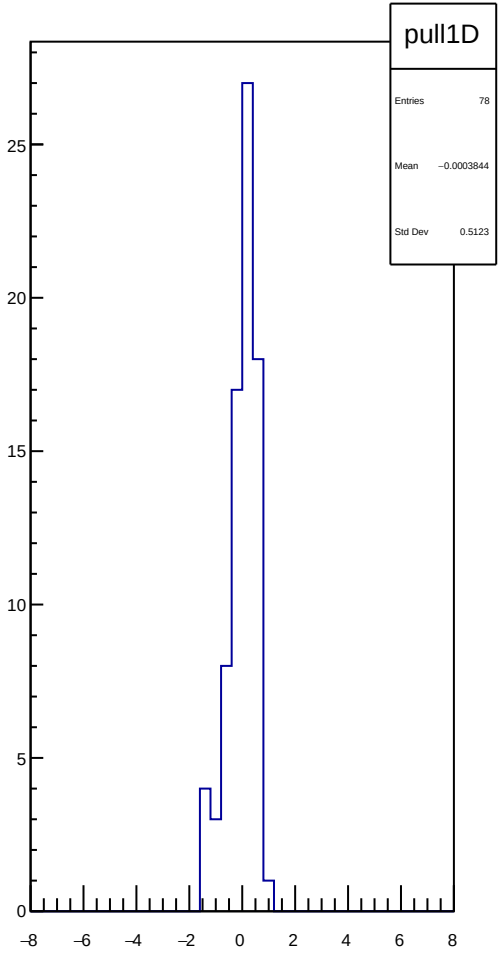

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.87 / 77
p0 −204.9 ± 4.089
−100
−150
−200
−250
−300
pull
Entries 78
Mean −168.4
Std Dev 195.4
1
0.5
0
−0.5
−1

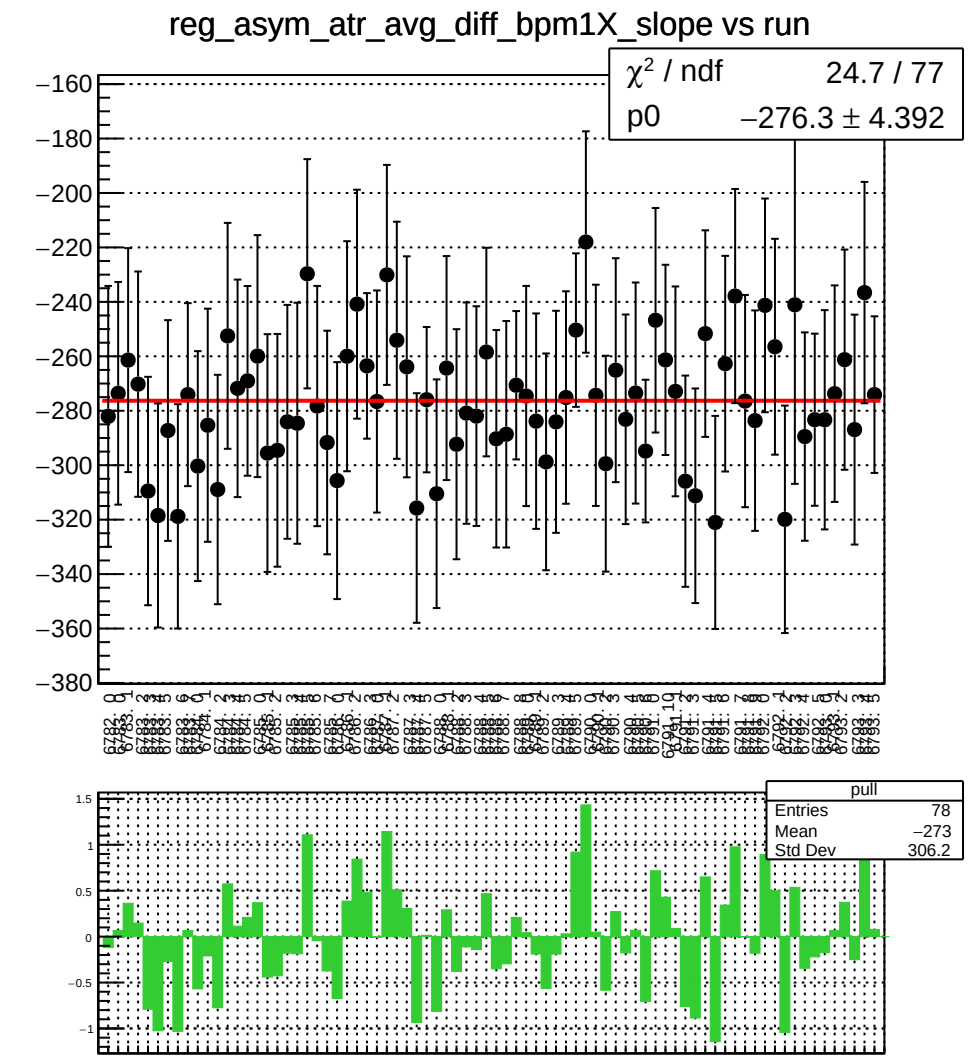

pull1D
Entries 78
Mean −0.01026
Std Dev 0.5759
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

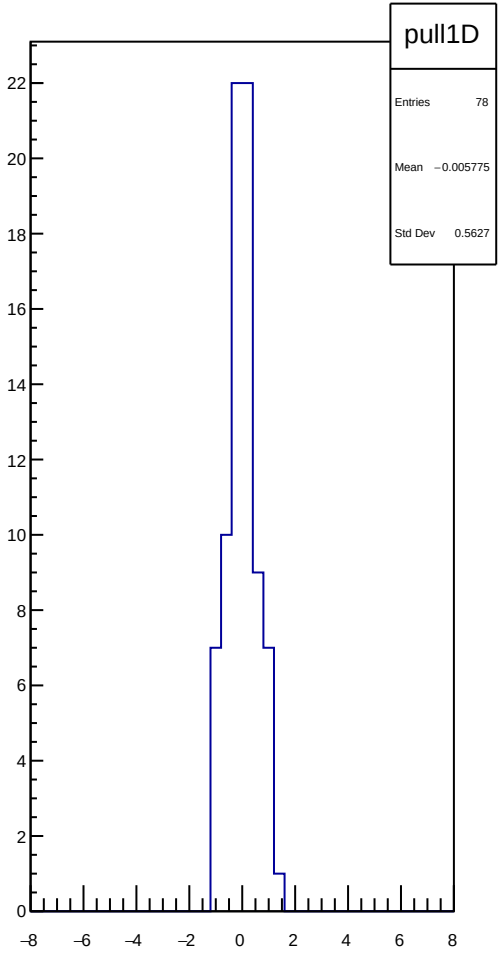

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.82 / 77
p0 −51.74 ± 2.863
pull
Entries 78
Mean 55.86
Std Dev 55.62

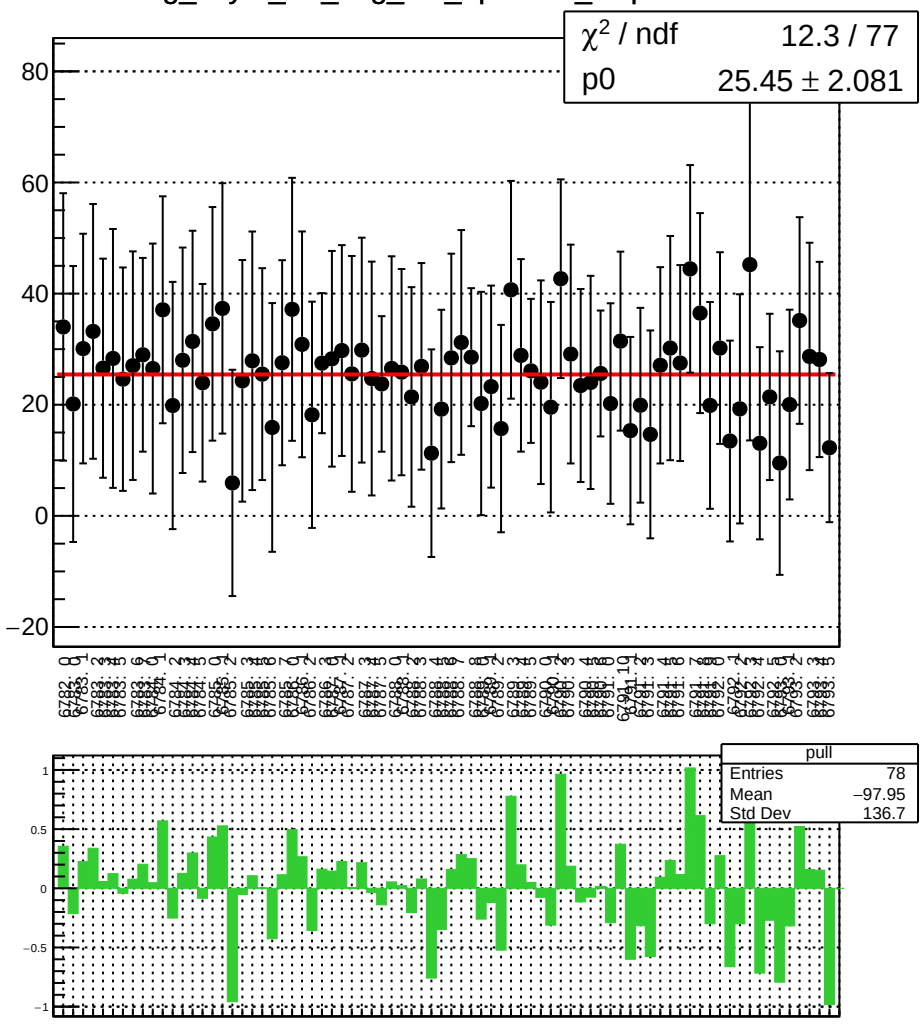

pull1D
Entries 78
Mean −0.01343
Std Dev 0.4642

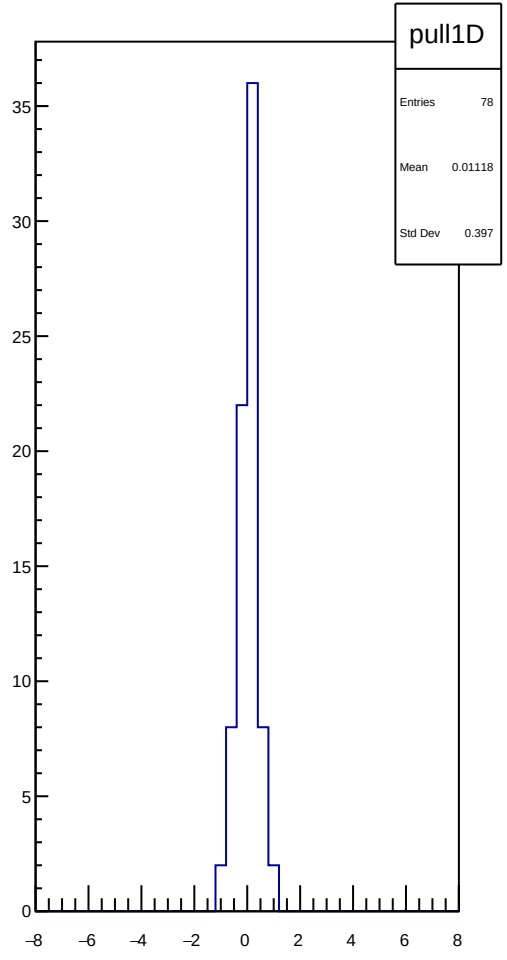

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 20.47 / 77
p0 135.7 ± 0.1926
pull
Entries 78
Mean 3478
Std Dev 3440

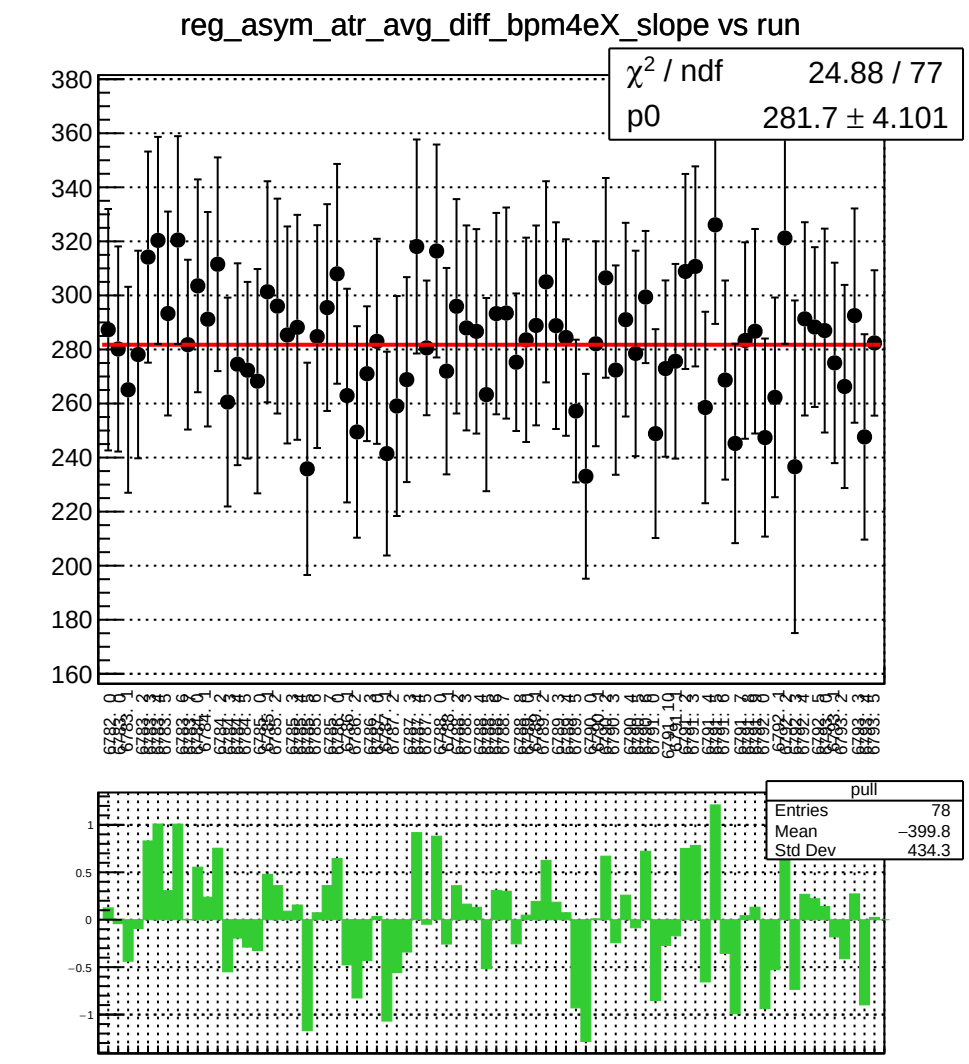

pull1D
Entries 78
Mean −0.0003844
Std Dev 0.5123

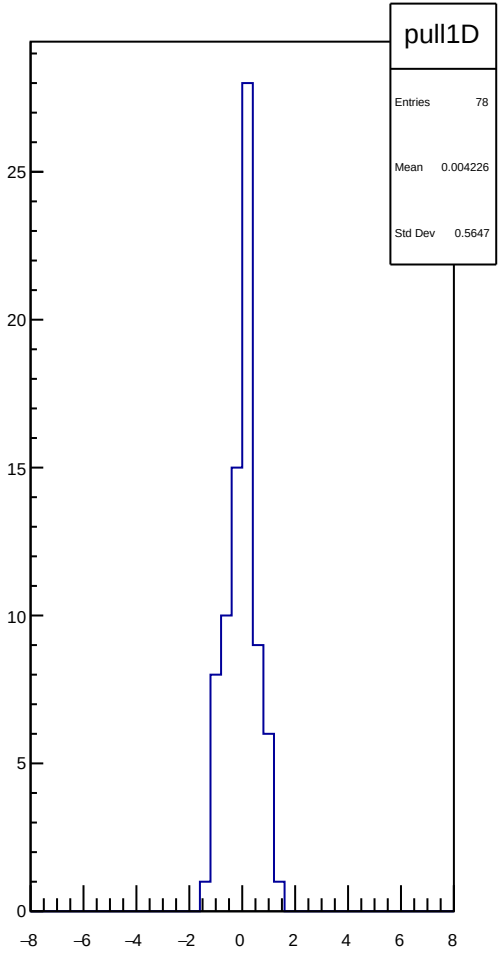

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 24.7 / 77
p0 −276.3 ± 4.392
pull
Entries 78
Mean −273
Std Dev 306.2

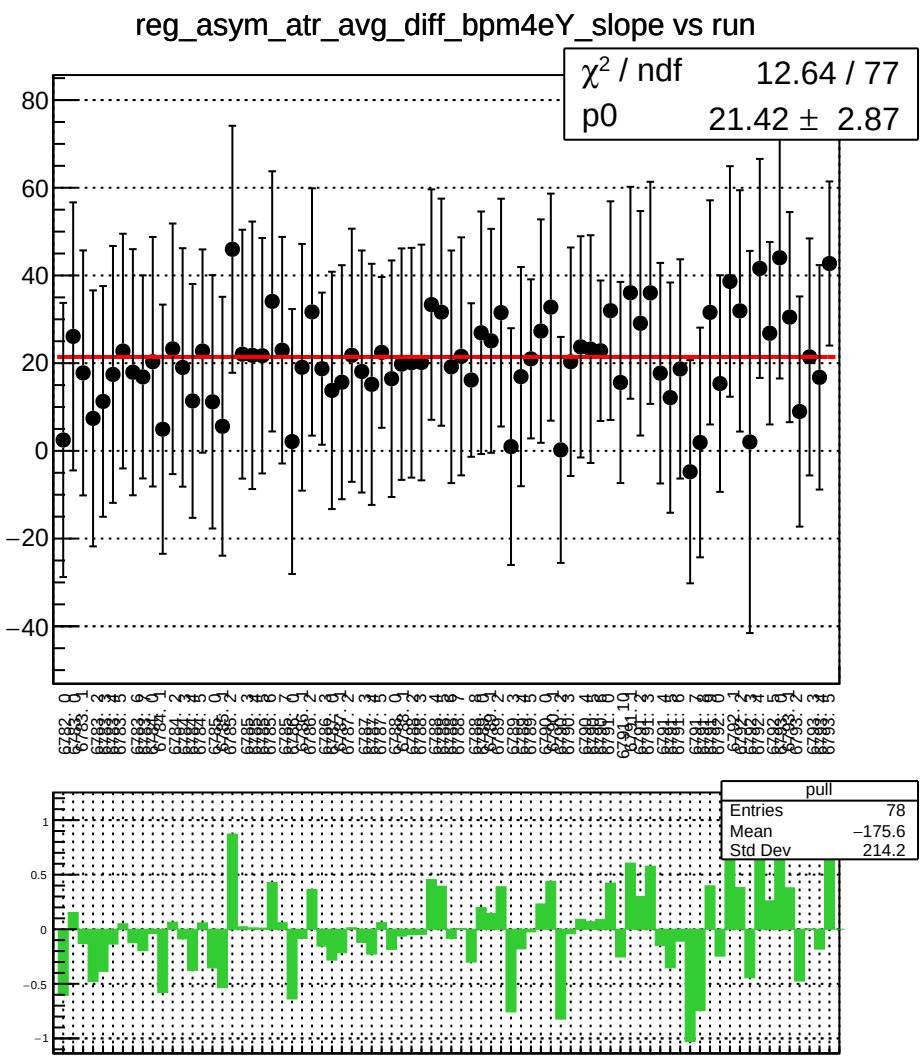

pull1D
Entries 78
Mean −0.005775
Std Dev 0.5627

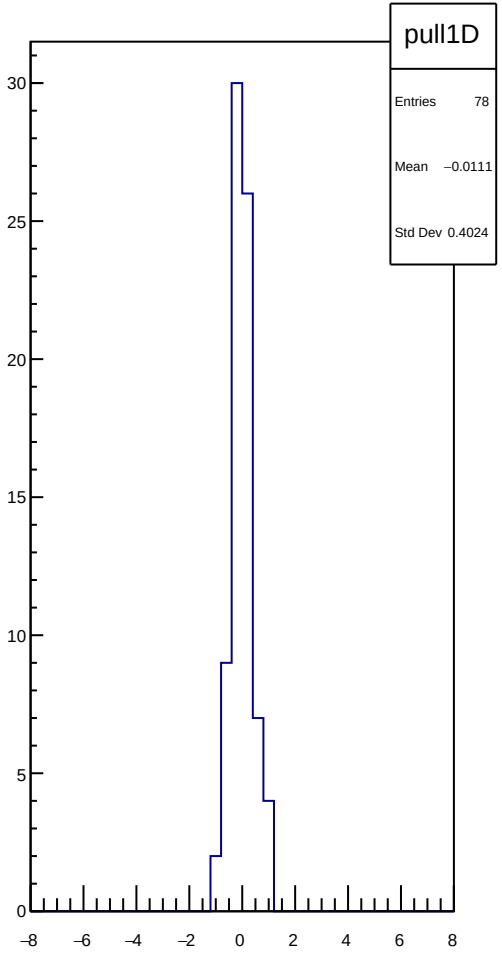

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.3 / 77
p0 25.45 ± 2.081
pull
Entries 78
Mean −97.95
Std Dev 136.7

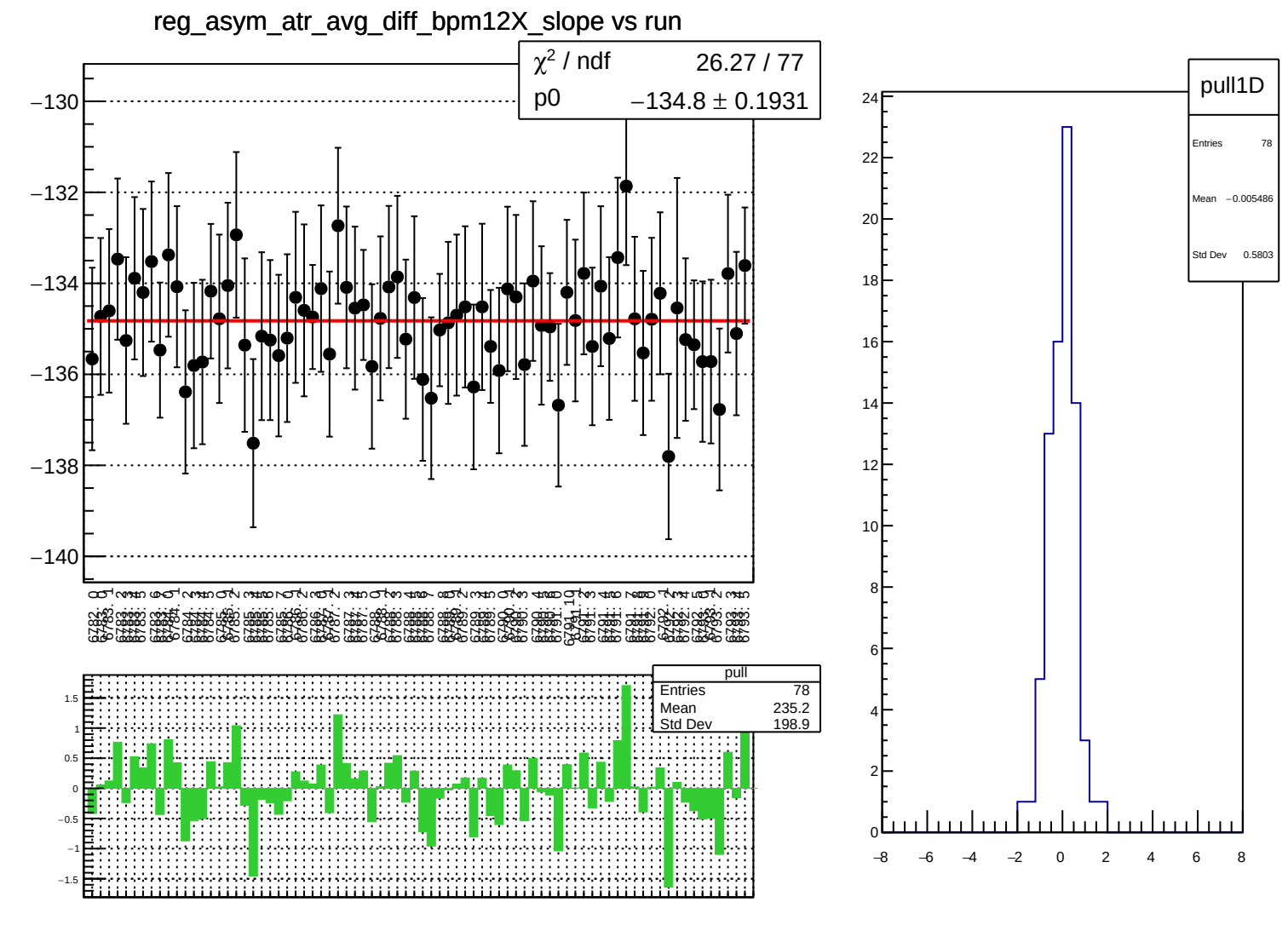

pull1D
Entries 78
Mean 0.01118
Std Dev 0.397

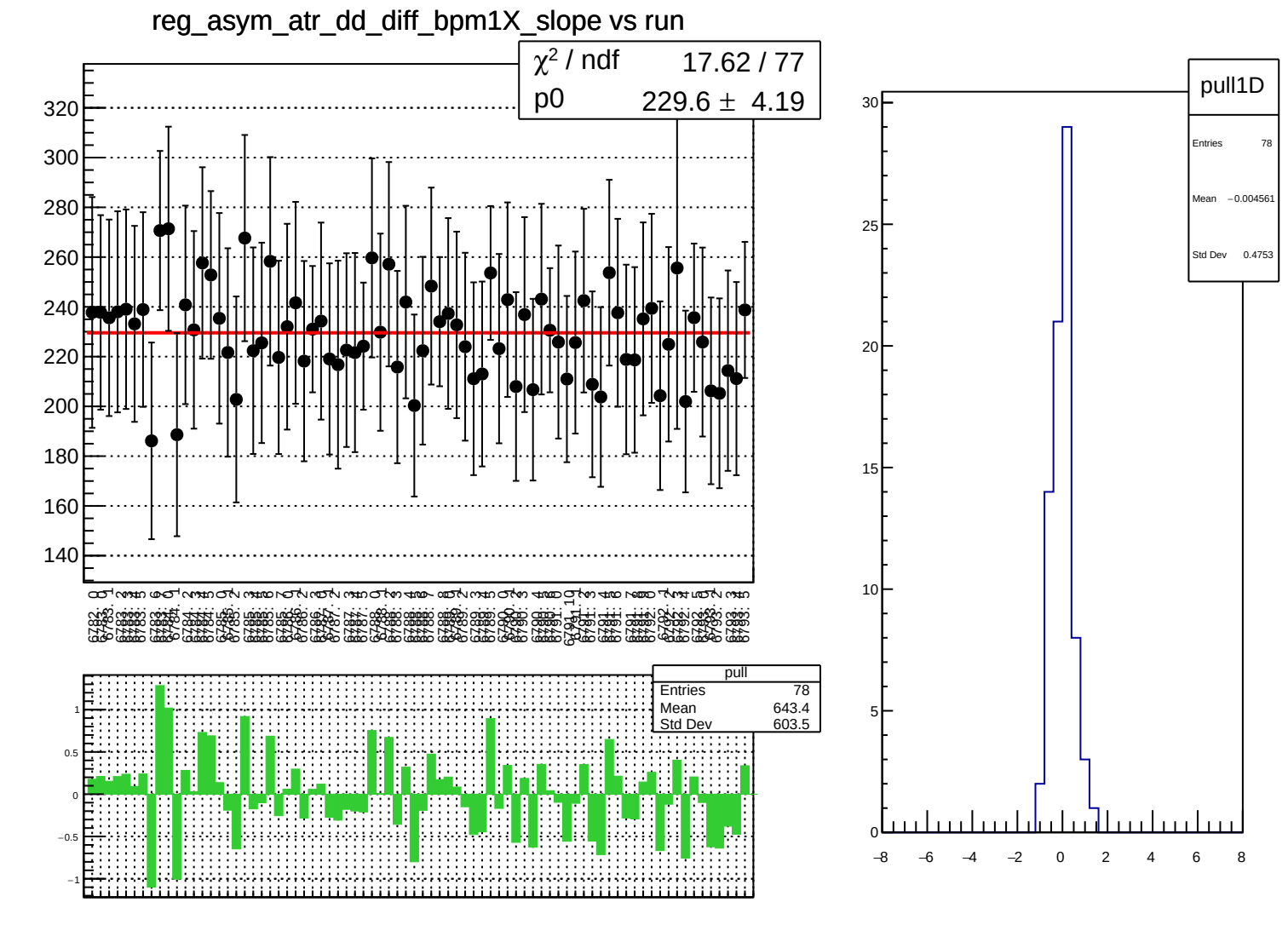

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.88 / 77
p0 281.7 ± 4.101
pull
Entries 78
Mean −399.8
Std Dev 434.3

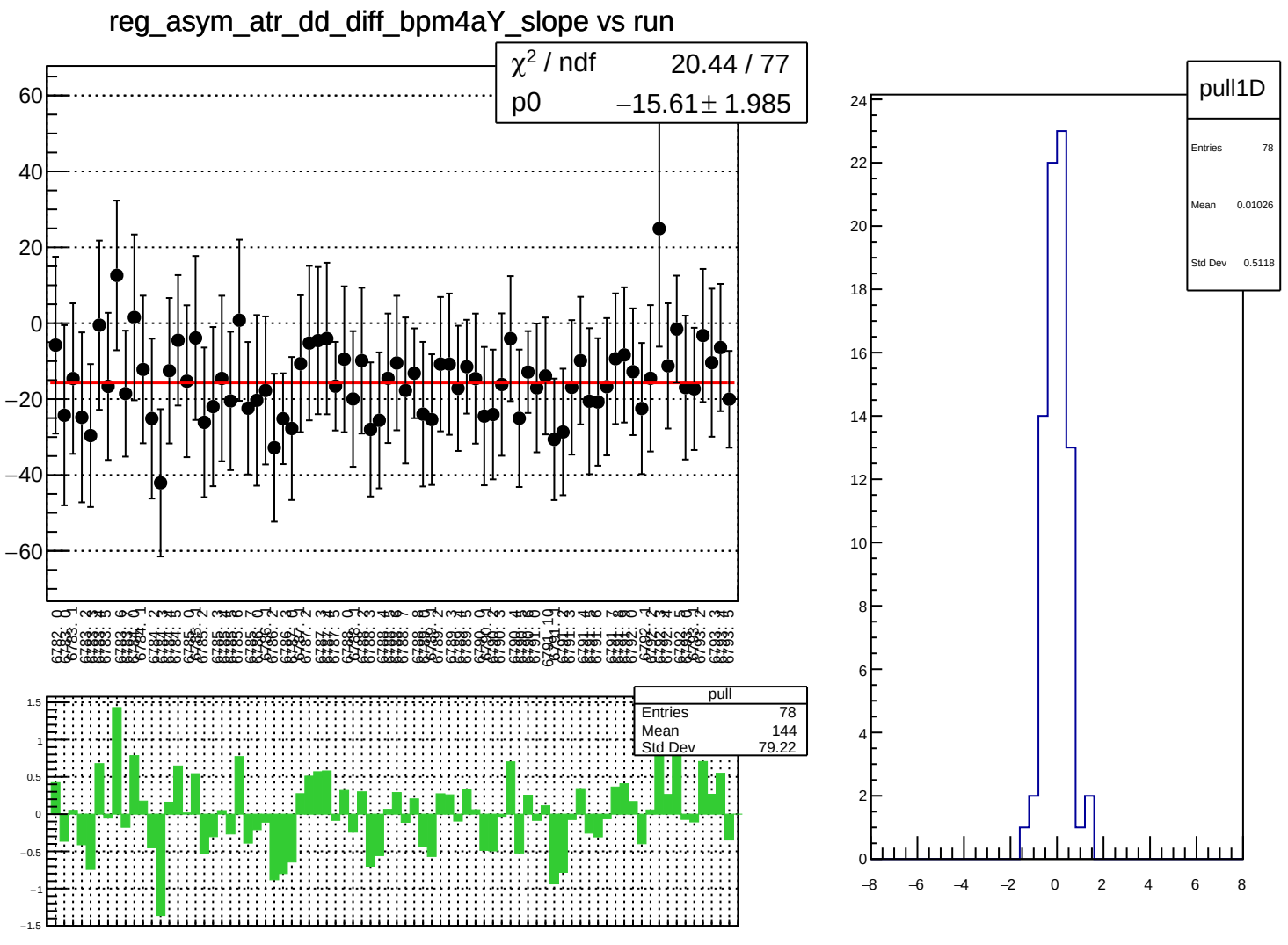

pull1D
Entries 78
Mean 0.004226
Std Dev 0.5647

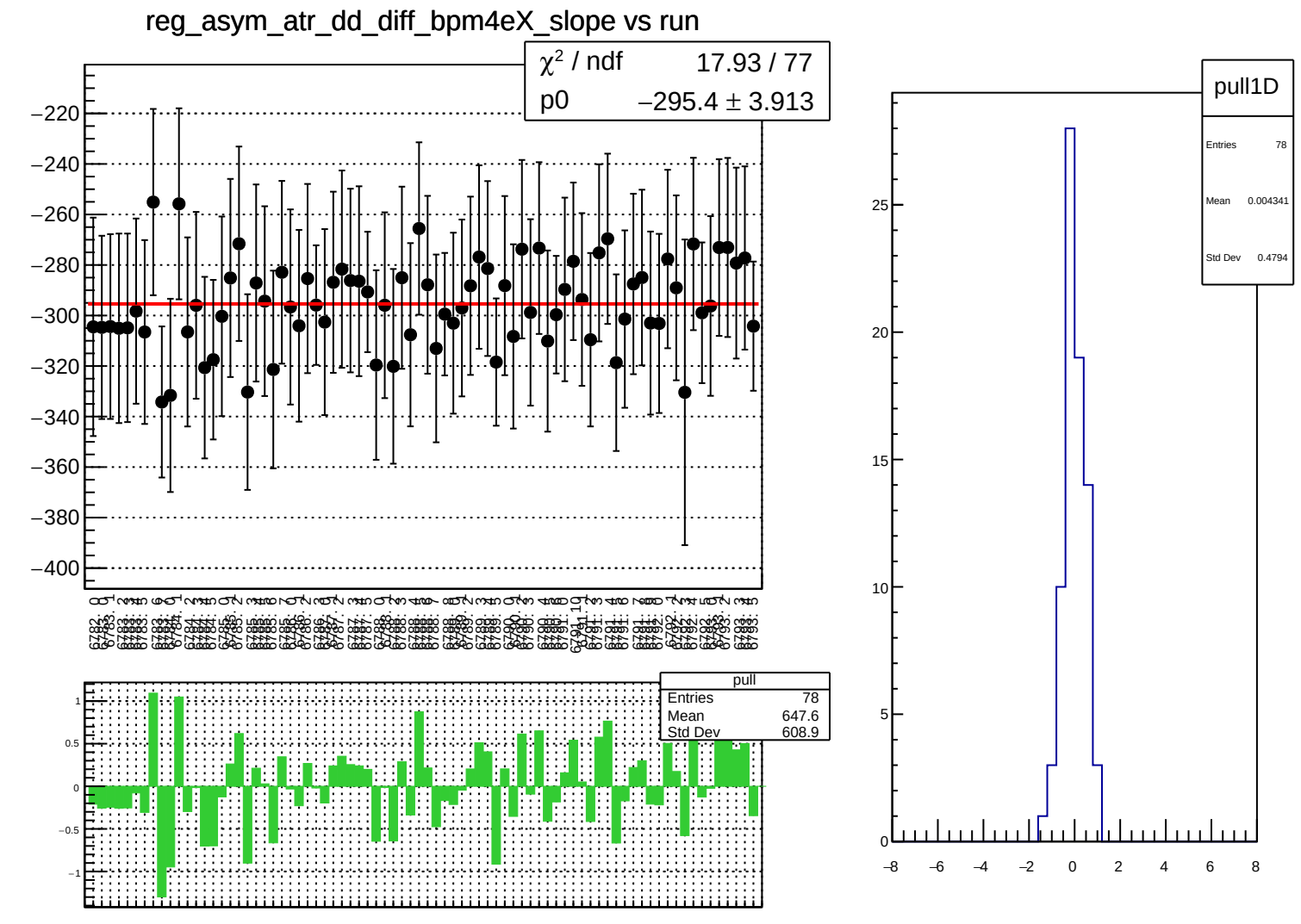

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.64 / 77
p0 21.42 ± 2.87
pull
Entries 78
Mean −175.6
Std Dev 214.2

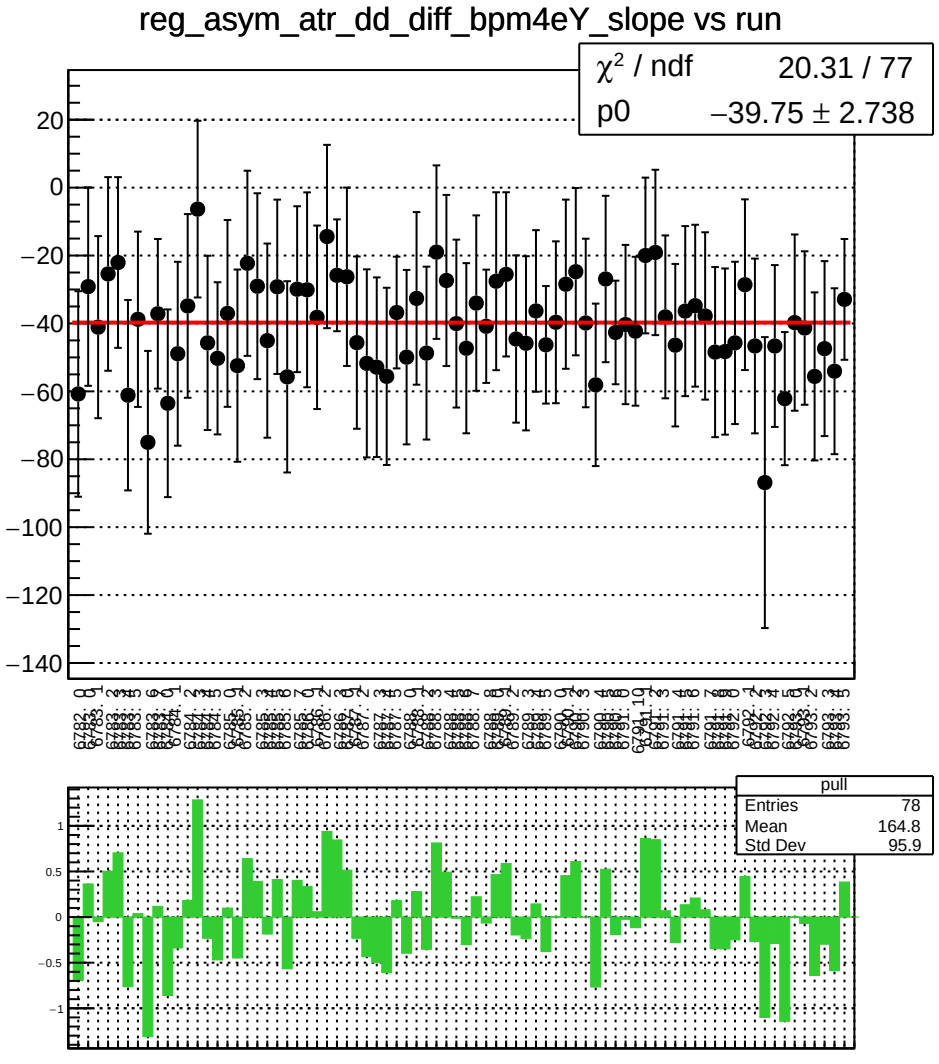

pull1D
Entries 78
Mean −0.0111
Std Dev 0.4024

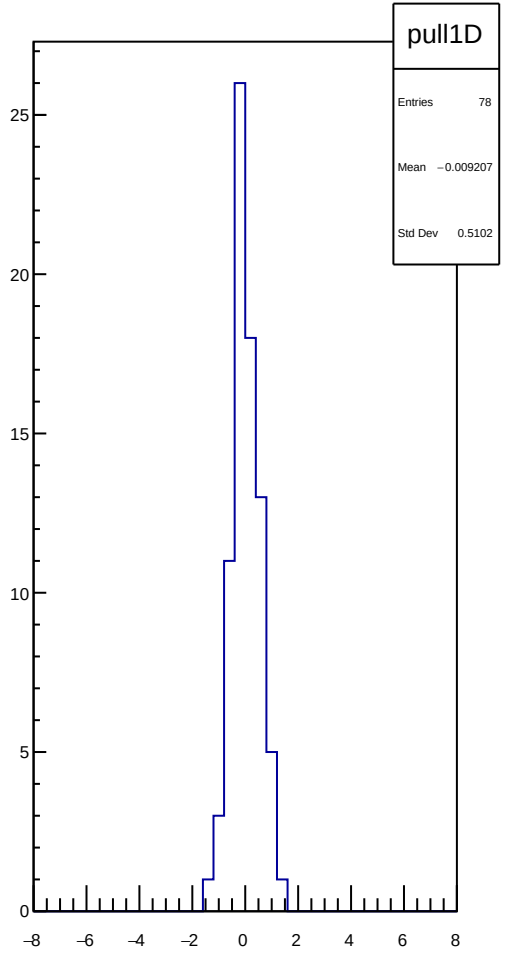

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 26.27 / 77
p0 −134.8 ± 0.1931
−130
−132
−134
−136
−138
−140
pull
Entries 78
Mean 235.2
Std Dev 198.9
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 78
Mean −0.005486
Std Dev 0.5803
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

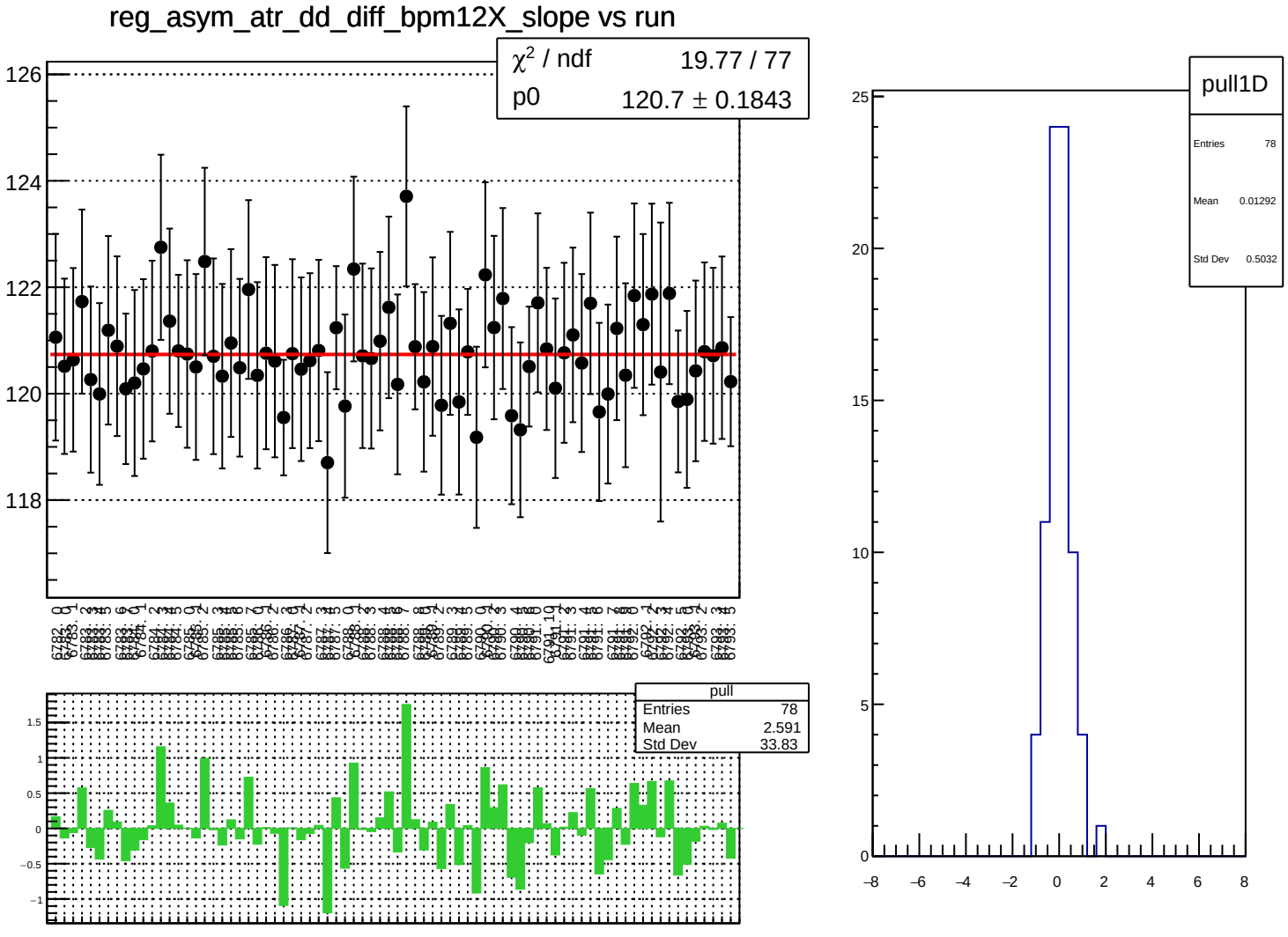

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 17.62 / 77
p0 229.6 ± 4.19
pull
Entries 78
Mean 643.4
Std Dev 603.5
pull1D
Entries 78
Mean −0.004561
Std Dev 0.4753

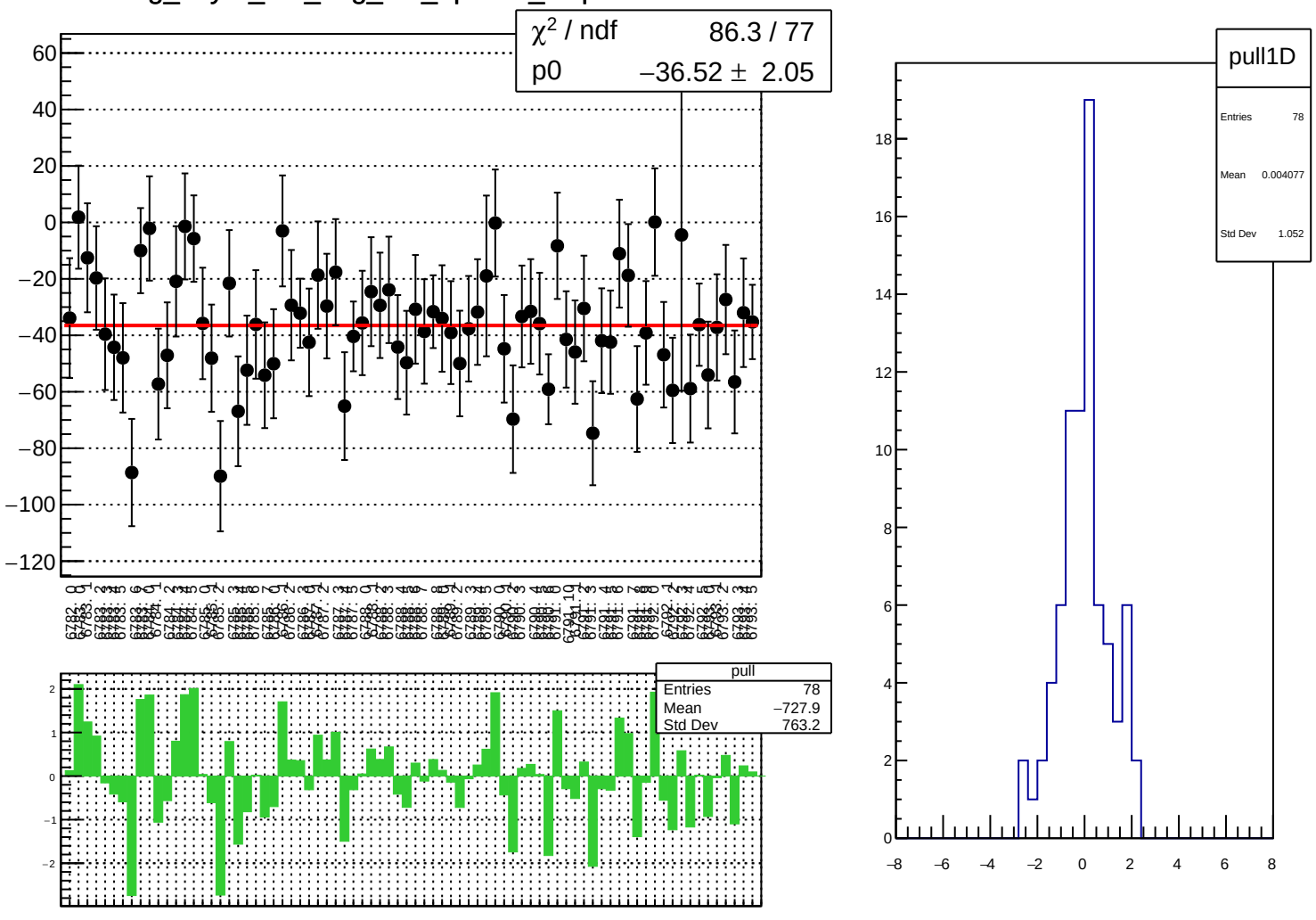

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.44 / 77
p0 −15.61± 1.985
pull
Entries 78
Mean 144
Std Dev 79.22
pull1D
Entries 78
Mean 0.01026
Std Dev 0.5118

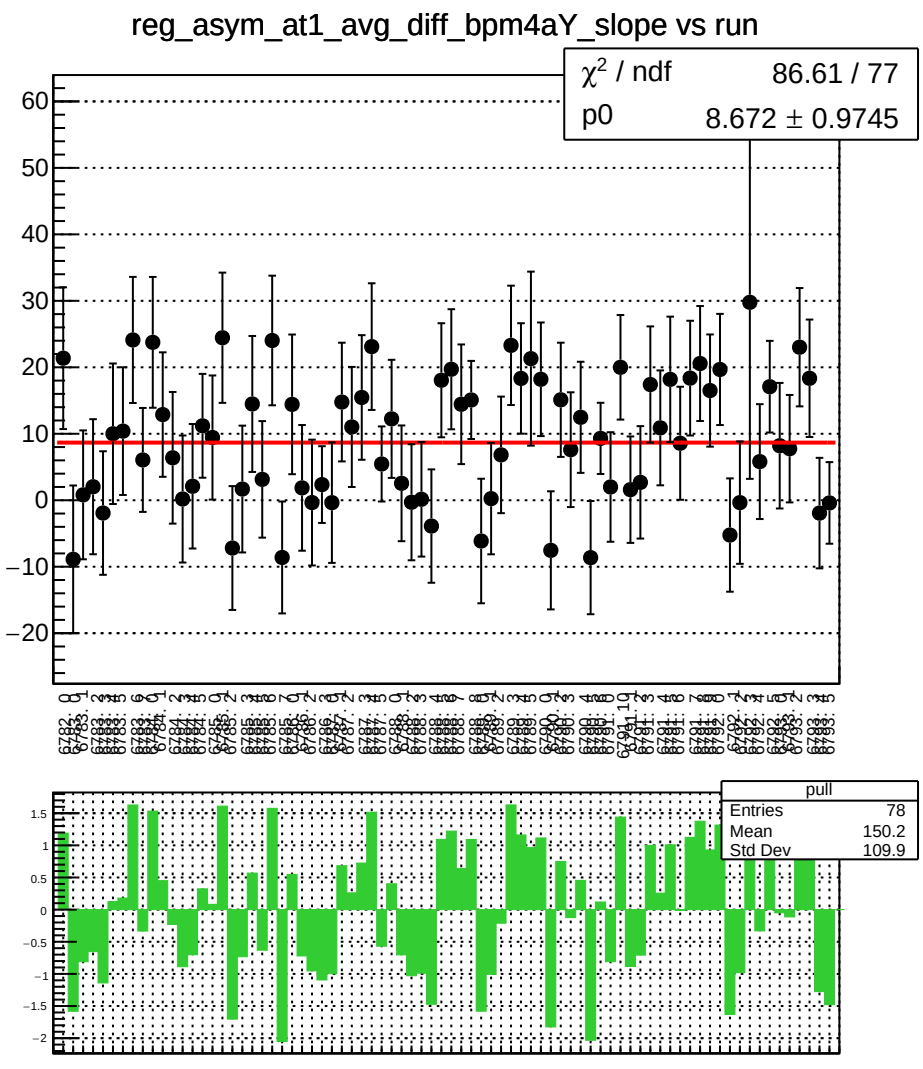

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.93 / 77
p0 −295.4 ± 3.913
pull
Entries 78
Mean 647.6
Std Dev 608.9
pull1D
Entries 78
Mean 0.004341
Std Dev 0.4794

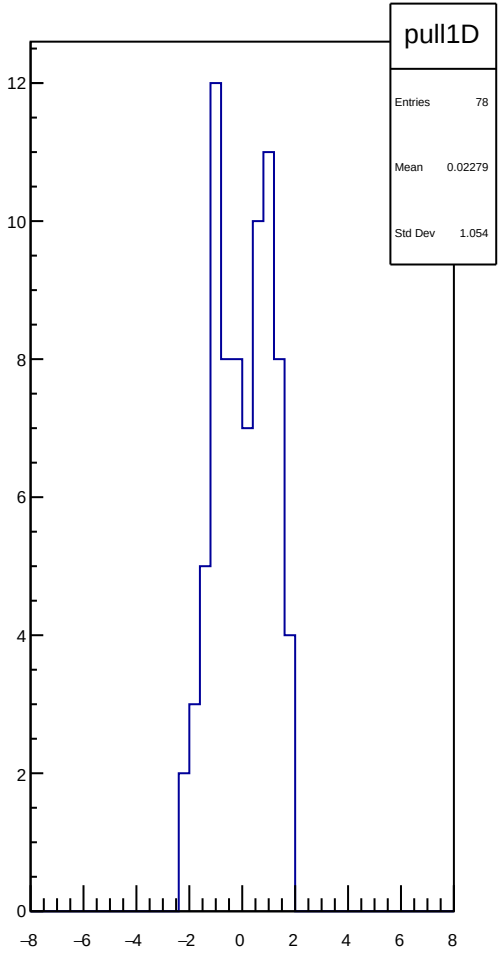

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.31 / 77
p0 −39.75 ± 2.738
pull
Entries 78
Mean 164.8
Std Dev 95.9

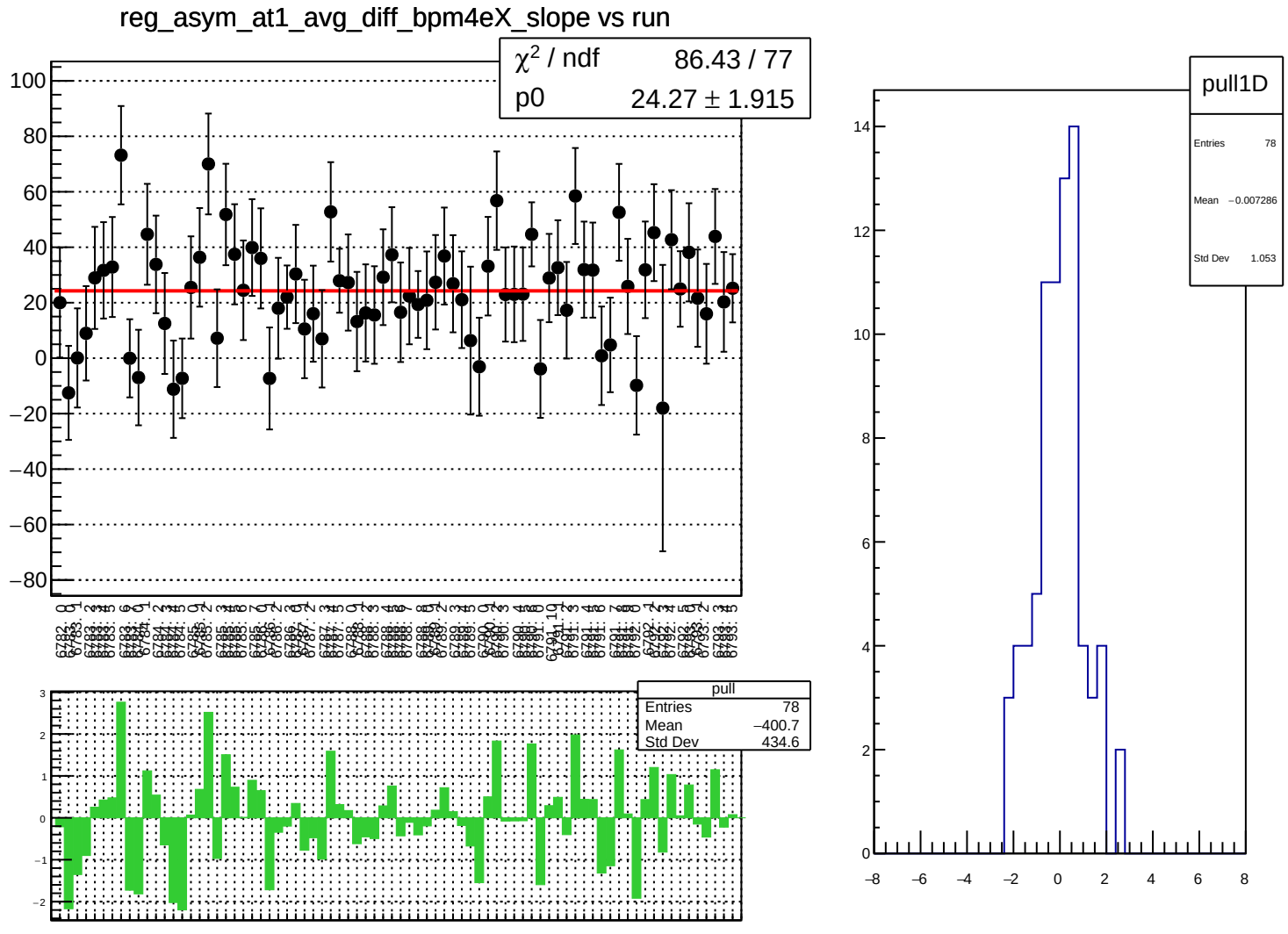

pull1D
Entries 78
Mean −0.009207
Std Dev 0.5102

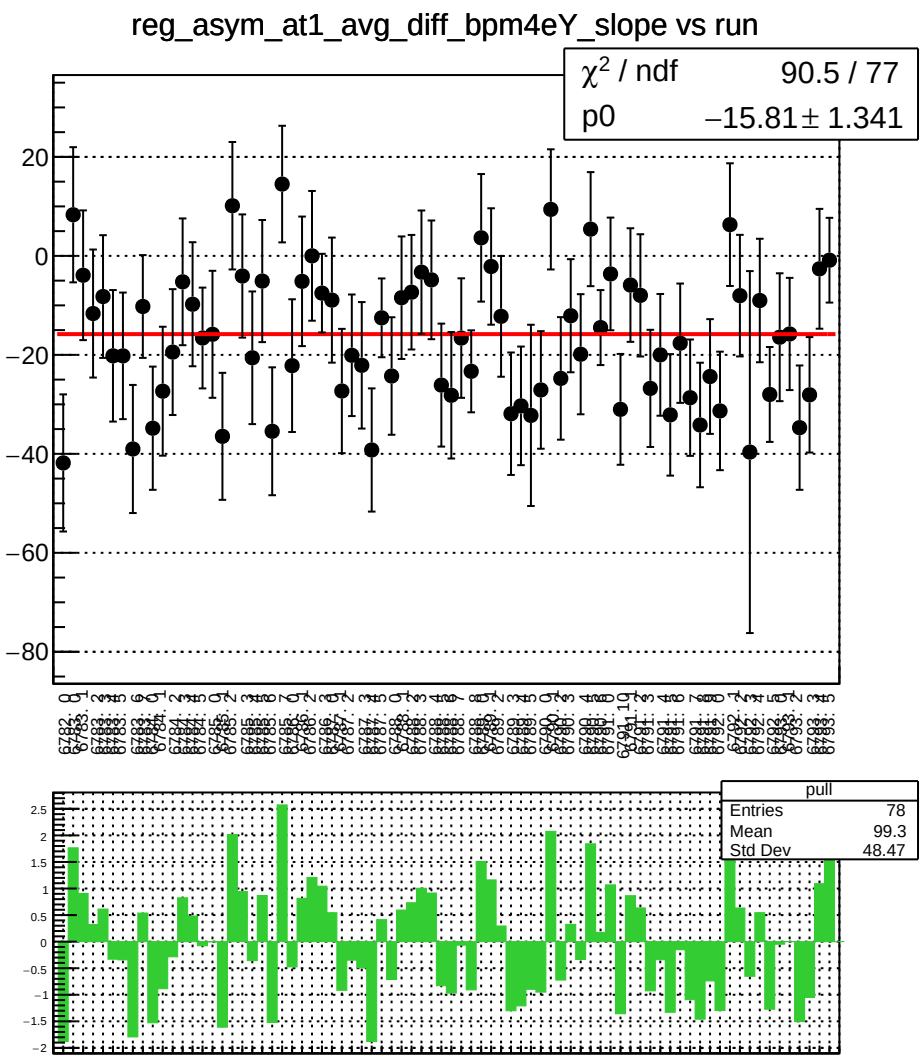

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 19.77 / 77
p0 120.7 ± 0.1843
126
124
122
120
118
pull
Entries 78
Mean 2.591
Std Dev 33.83
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 78
Mean 0.01292
Std Dev 0.5032
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

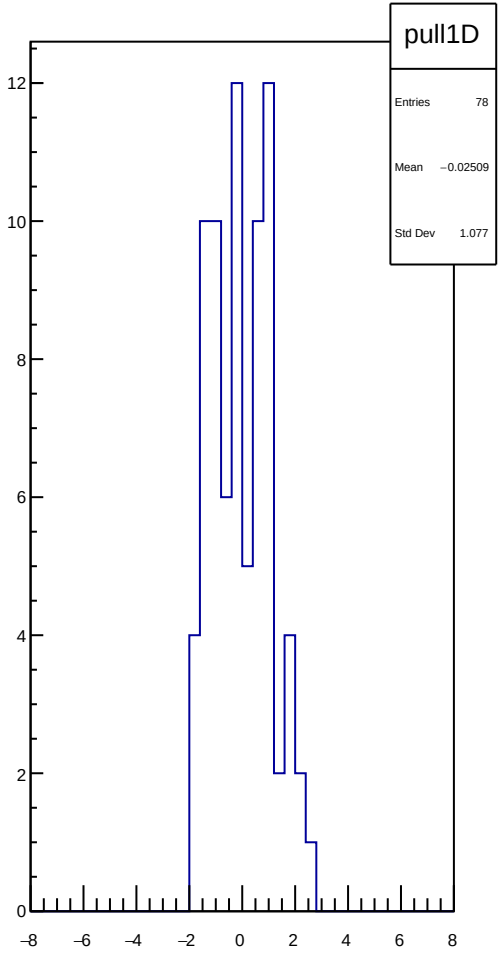

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 86.3 / 77
p0 −36.52 ± 2.05
pull
Entries 78
Mean −727.9
Std Dev 763.2
pull1D
Entries 78
Mean 0.004077
Std Dev 1.052

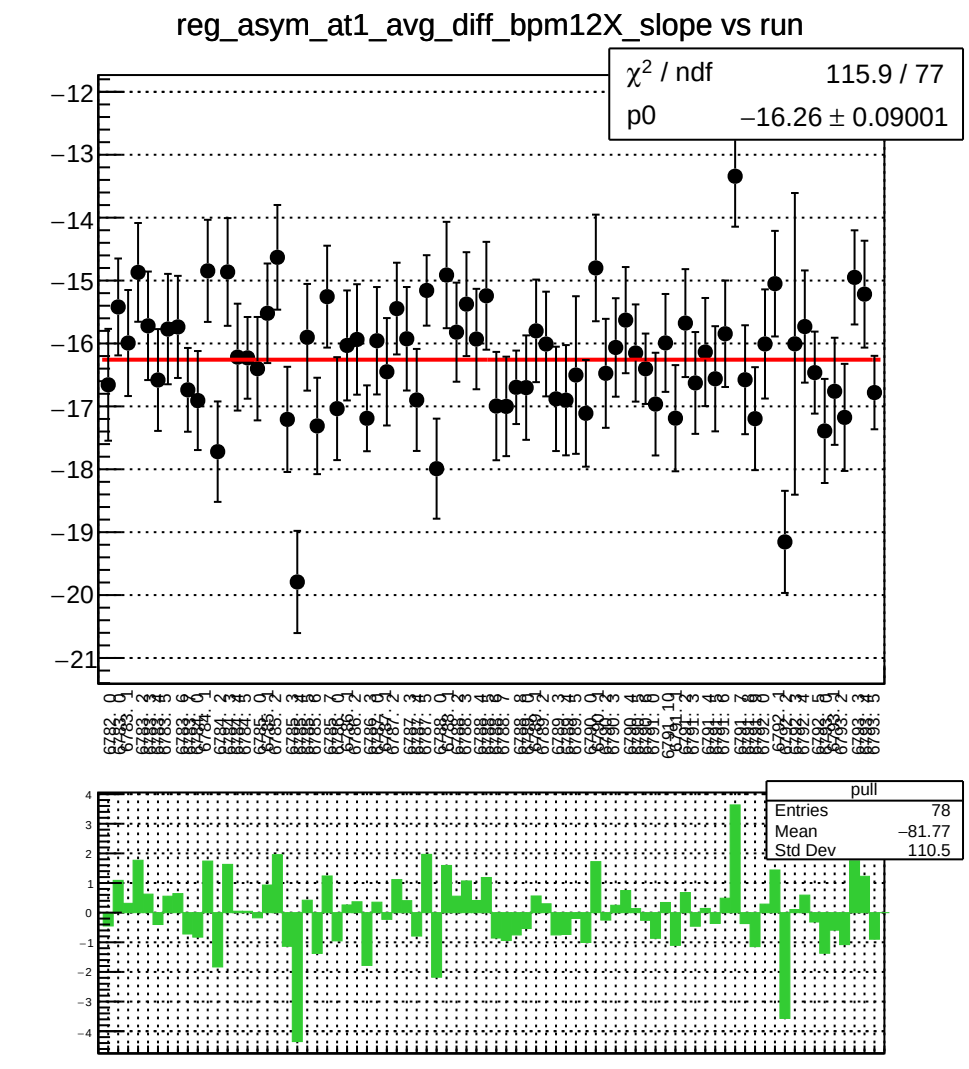

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 86.61 / 77
p0 8.672 ± 0.9745
pull
Entries 78
Mean 150.2
Std Dev 109.9

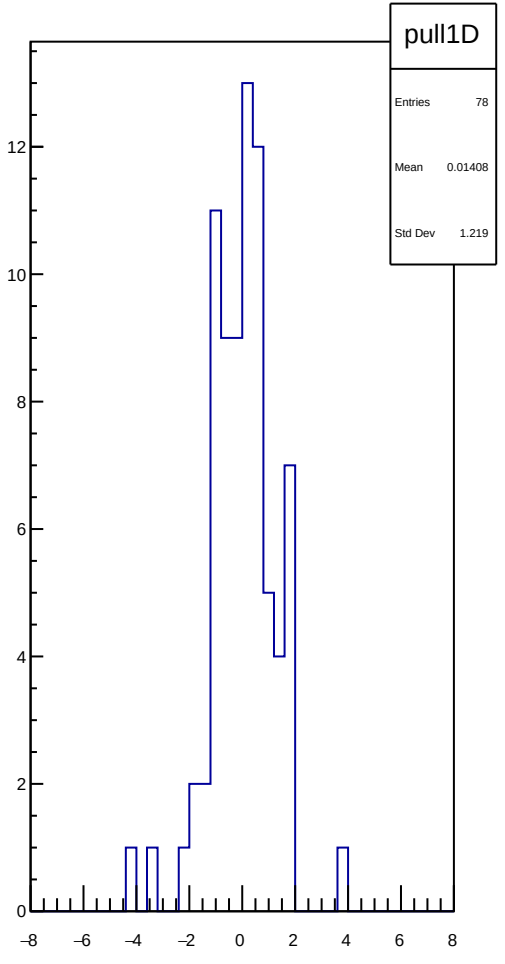

pull1D
Entries 78
Mean 0.02279
Std Dev 1.054

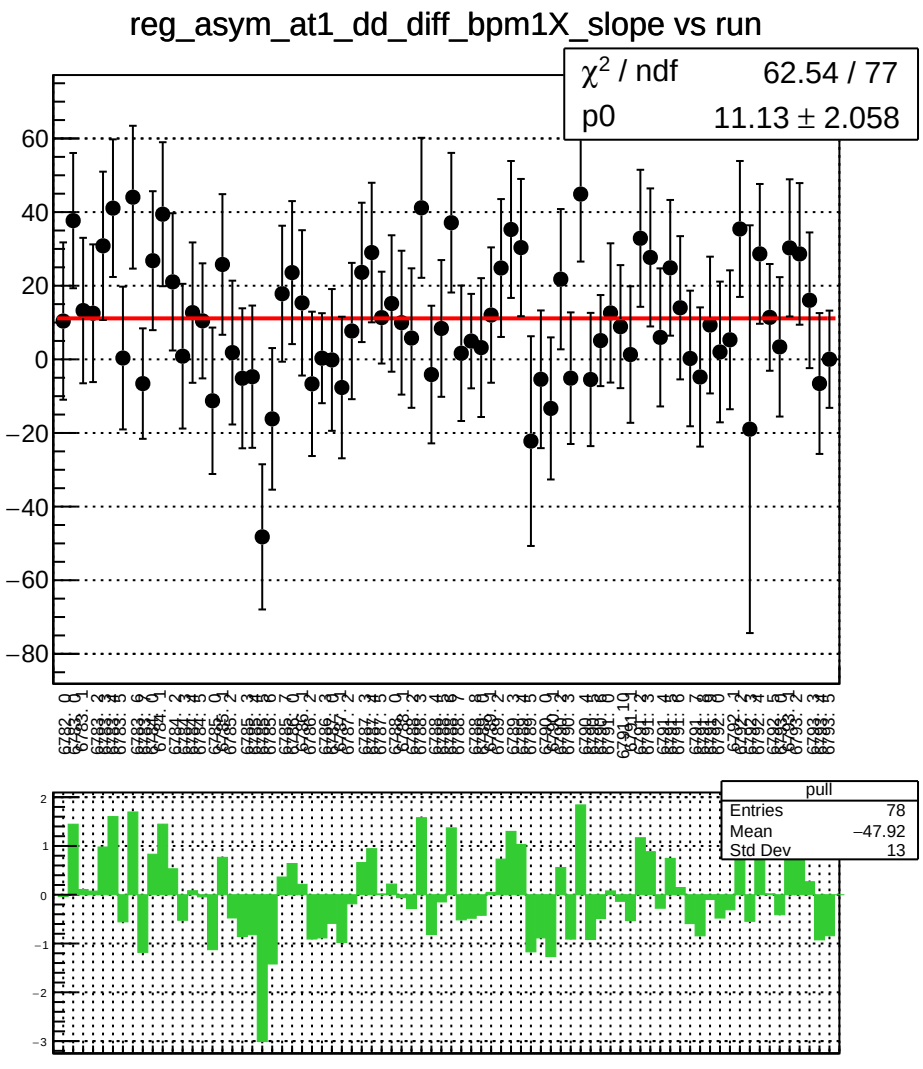

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 86.43 / 77
p0 24.27 ± 1.915
pull
Entries 78
Mean −400.7
Std Dev 434.6
pull1D
Entries 78
Mean −0.007286
Std Dev 1.053

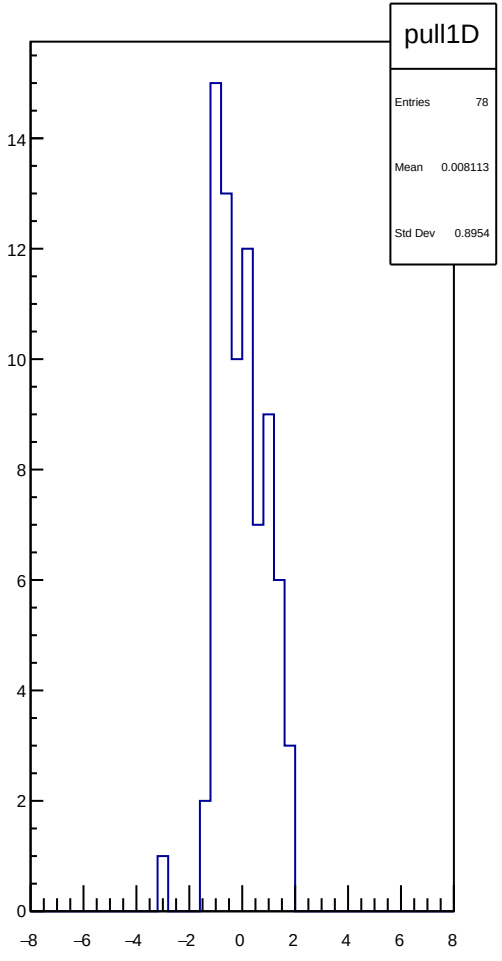

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 90.5 / 77
p0 −15.81 ± 1.341
pull
Entries 78
Mean 99.3
Std Dev 48.47

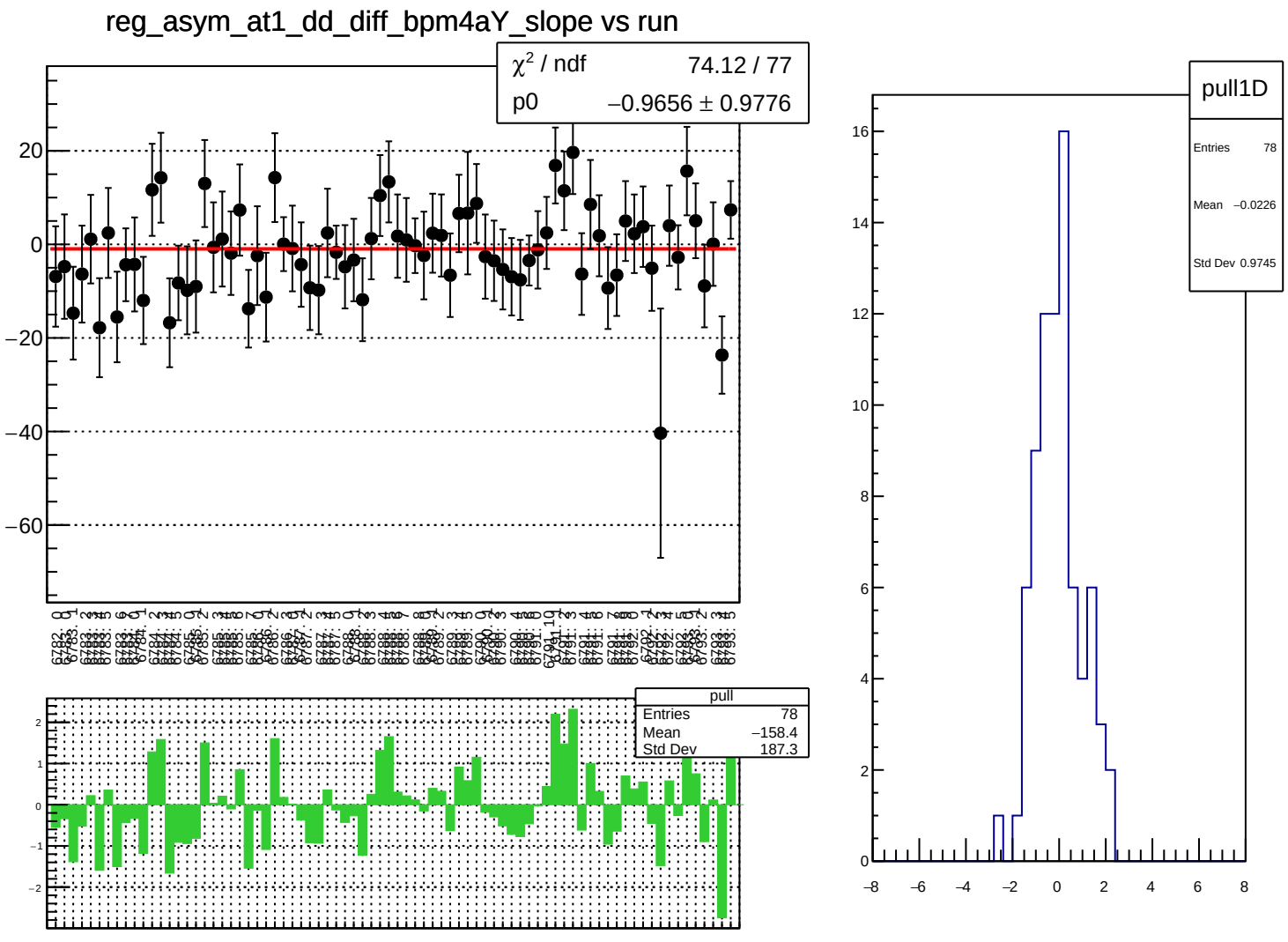

pull1D
Entries 78
Mean −0.02509
Std Dev 1.077

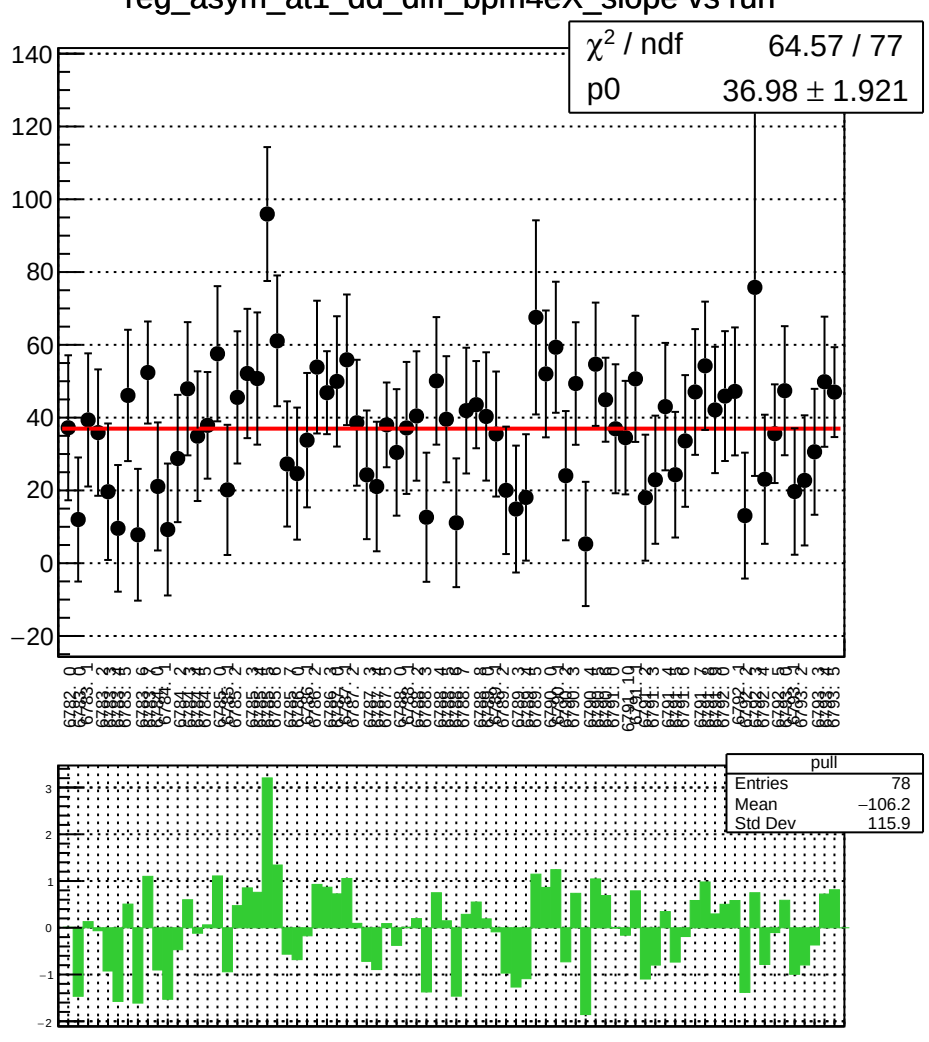

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 115.9 / 77
p0 −16.26 ± 0.09001
pull
Entries 78
Mean −81.77
Std Dev 110.5

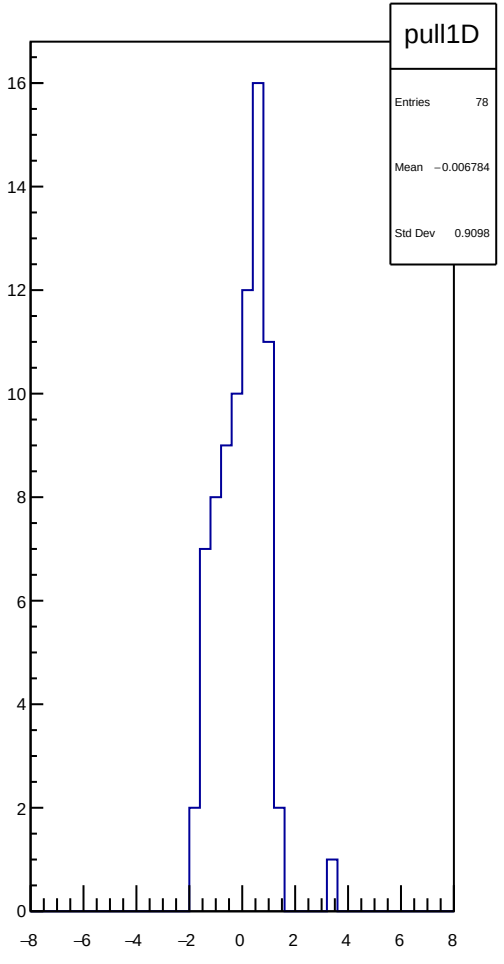

pull1D
Entries 78
Mean 0.01408
Std Dev 1.219

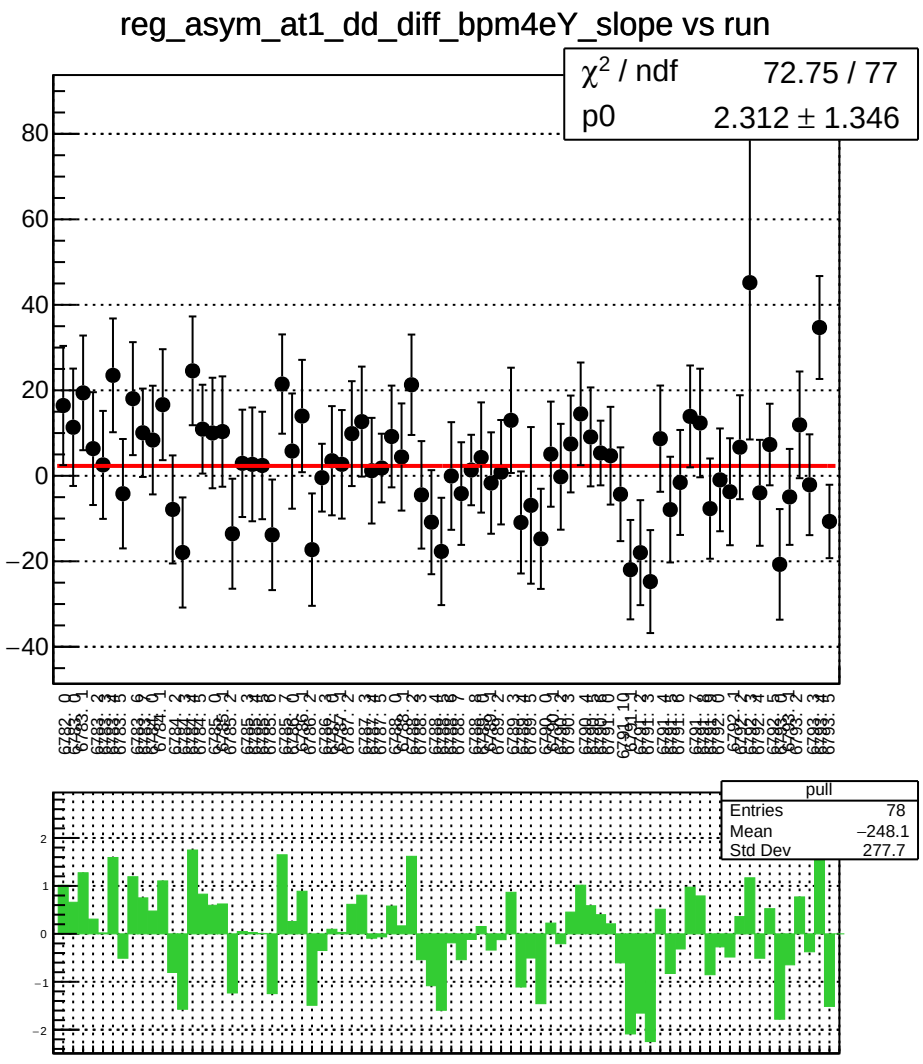

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ^2 / ndf 62.54 / 77
p0 11.13 ± 2.058
pull
Entries 78
Mean −47.92
Std Dev 13

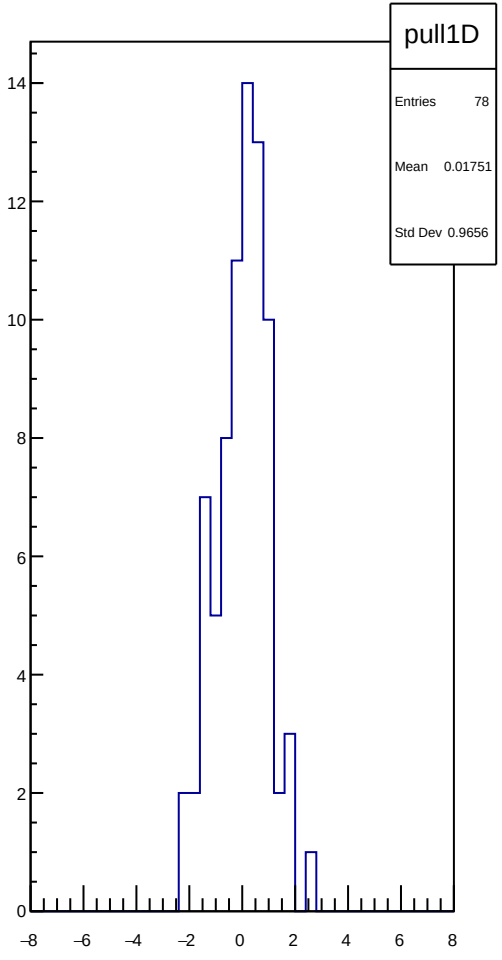

pull1D
Entries 78
Mean 0.008113
Std Dev 0.8954

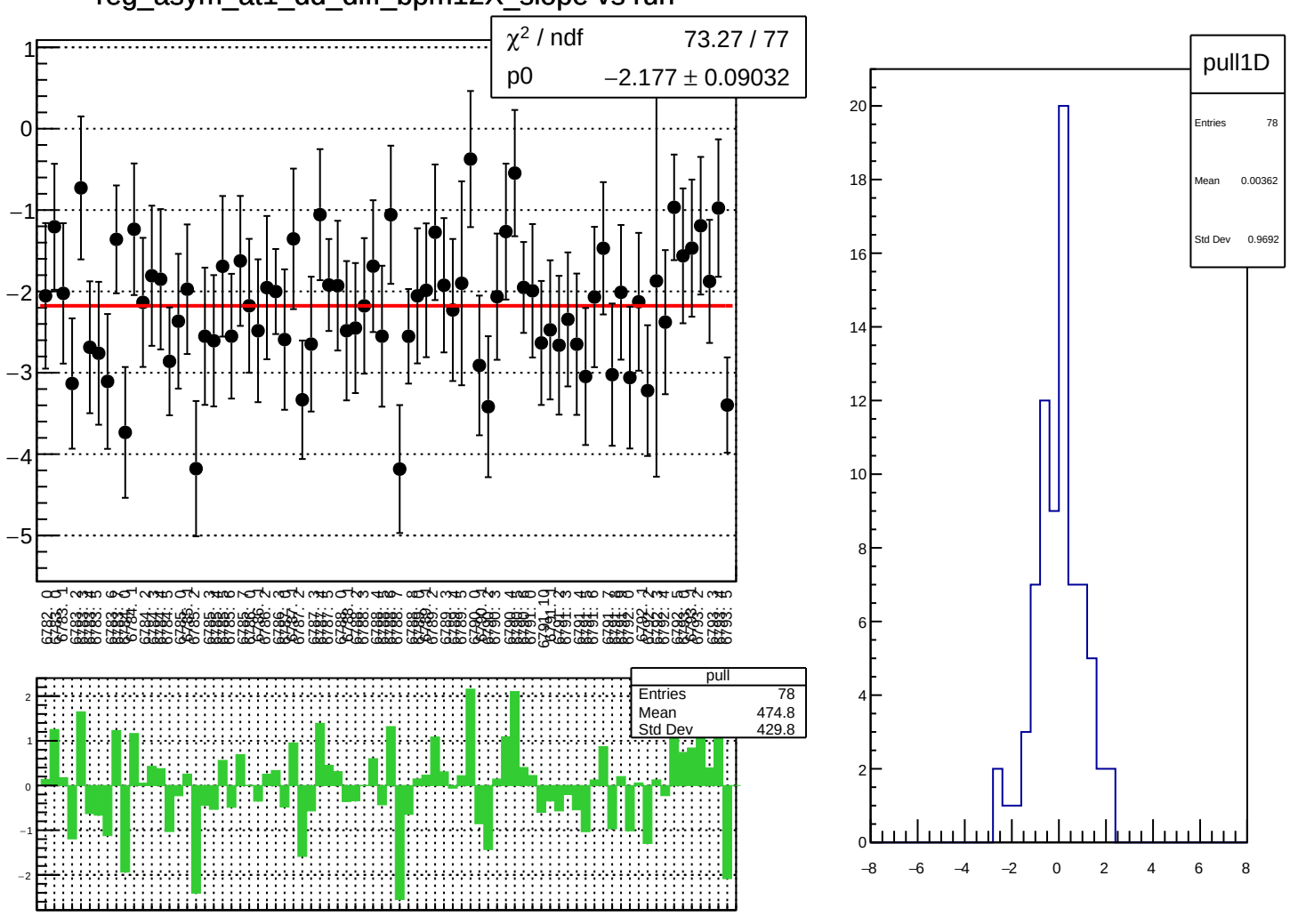

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 74.12 / 77
p0 −0.9656 ± 0.9776
pull
Entries 78
Mean −158.4
Std Dev 187.3
pull1D
Entries 78
Mean −0.0226
Std Dev 0.9745

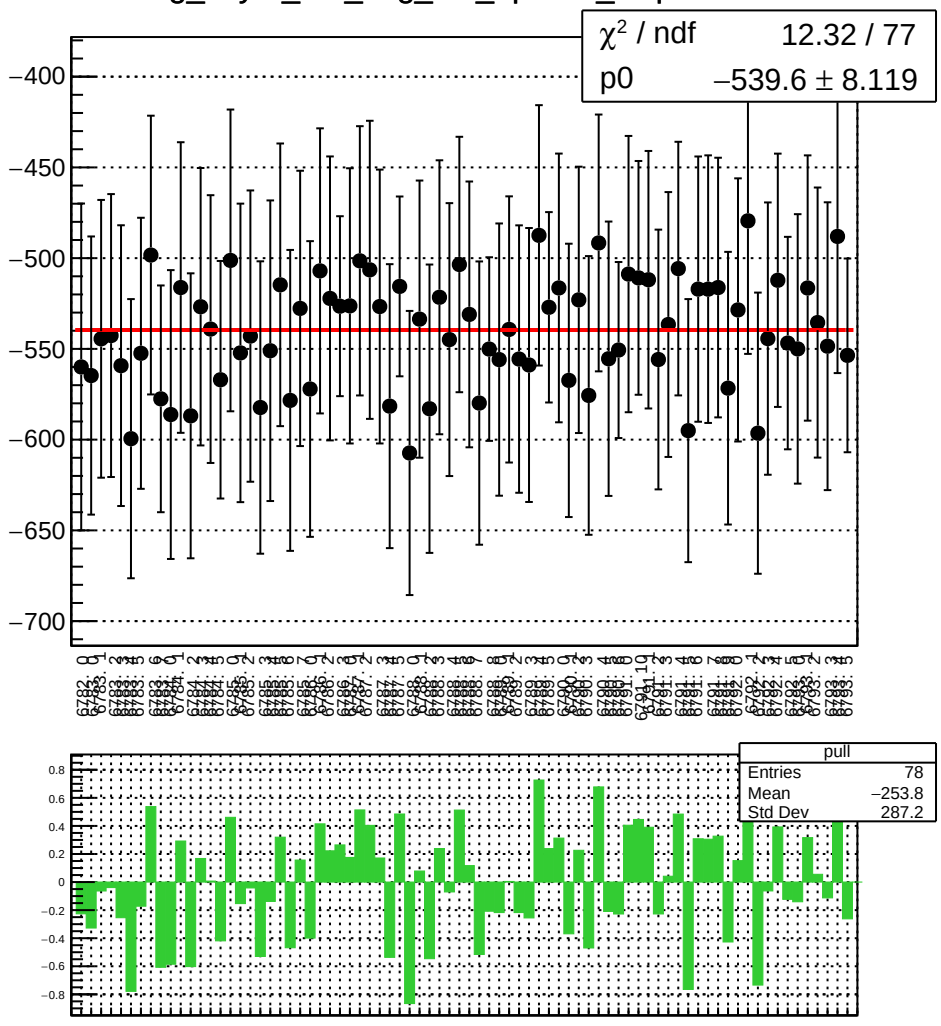

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.57 / 77
p0 36.98 ± 1.921
pull
Entries 78
Mean −106.2
Std Dev 115.9

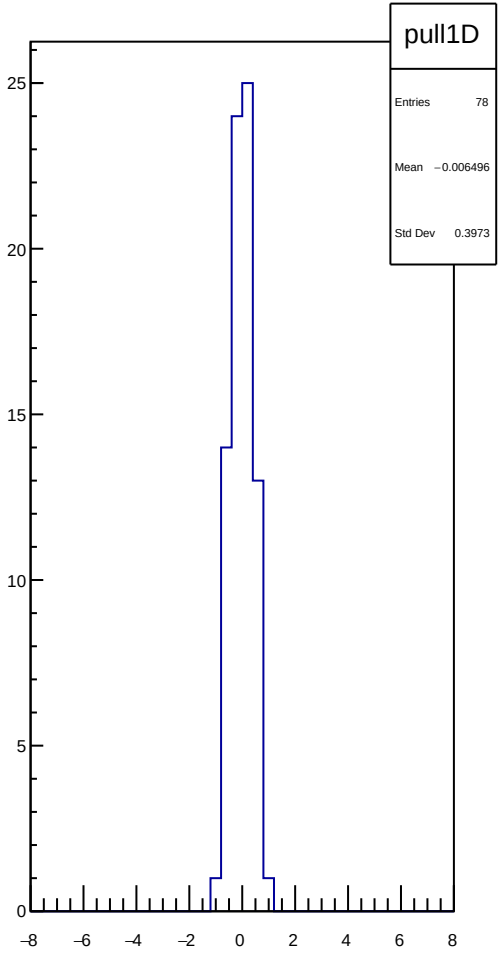

pull1D
Entries 78
Mean −0.006784
Std Dev 0.9098

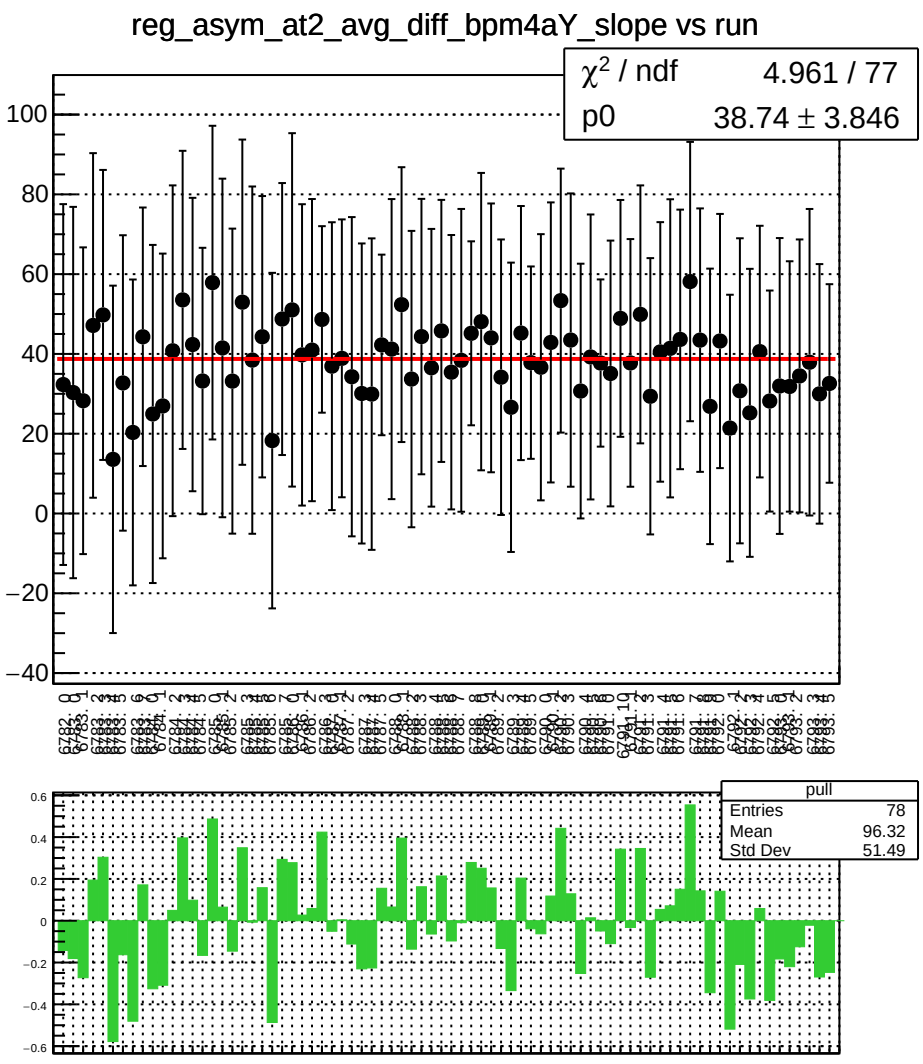

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.75 / 77
p0 2.312 ± 1.346
pull
Entries 78
Mean −248.1
Std Dev 277.7

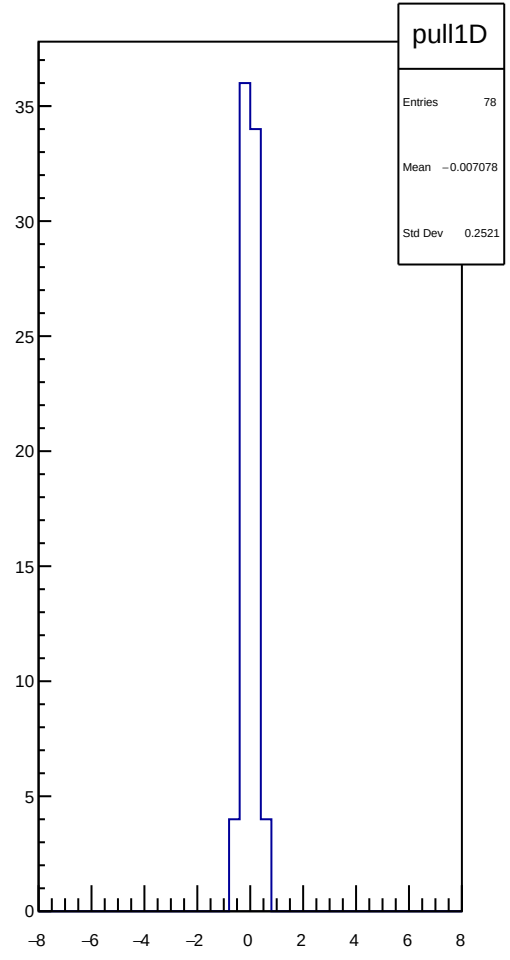

pull1D
Entries 78
Mean 0.01751
Std Dev 0.9656

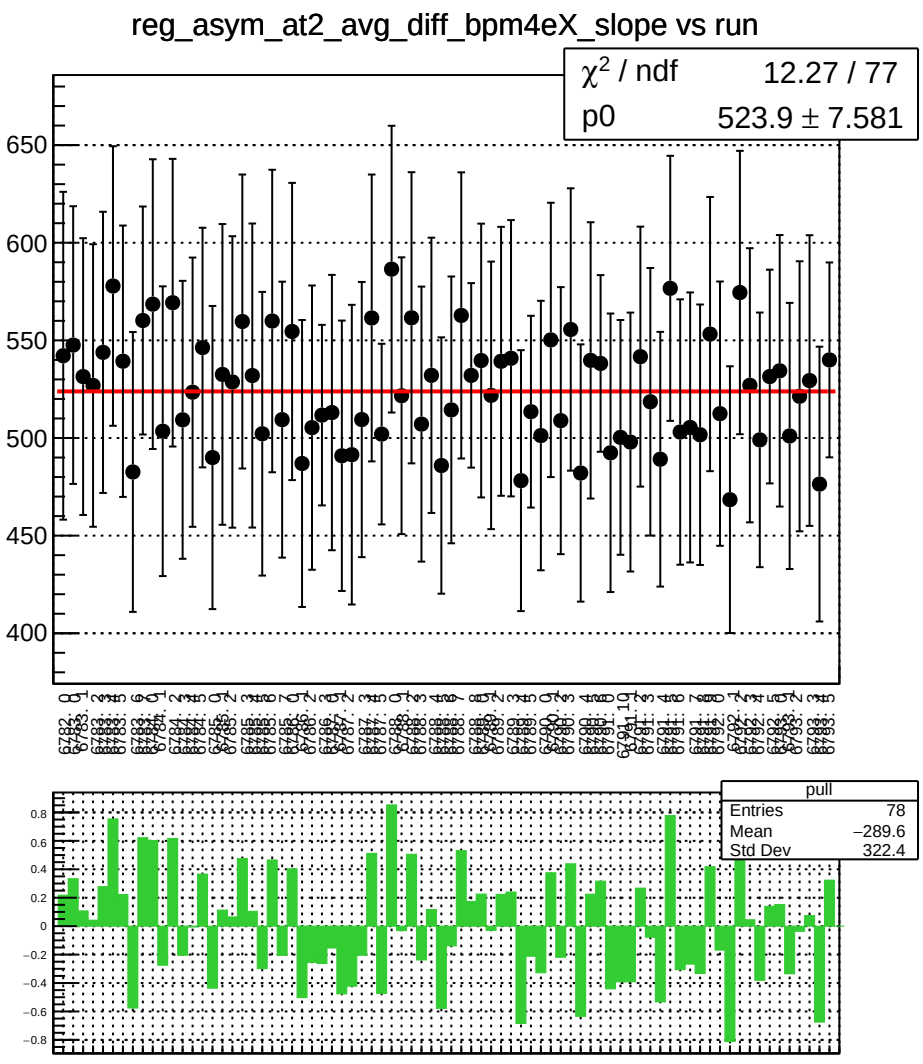

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 73.27 / 77
p0 −2.177 ± 0.09032
pull
Entries 78
Mean 474.8
Std Dev 429.8
pull1D
Entries 78
Mean 0.00362
Std Dev 0.9692

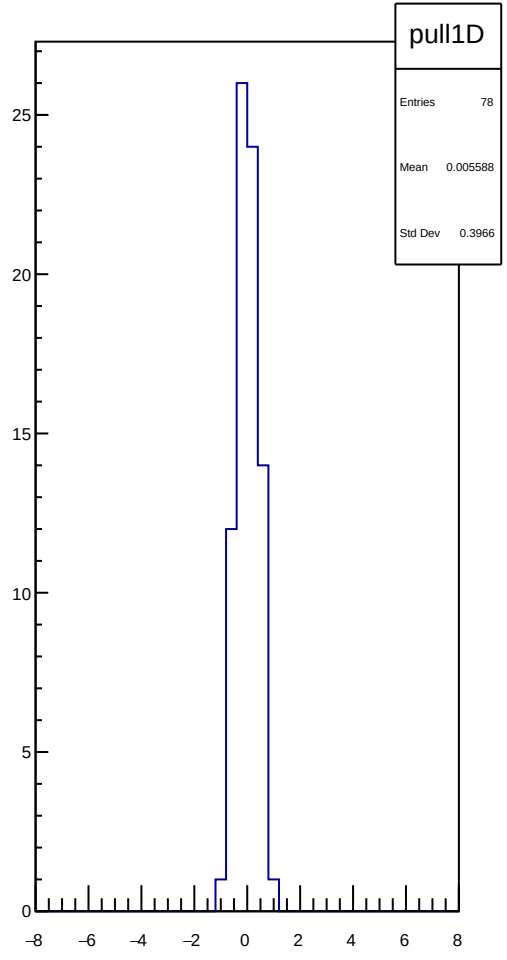

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 12.32 / 77
p0 −539.6 ± 8.119
pull
Entries 78
Mean −253.8
Std Dev 287.2

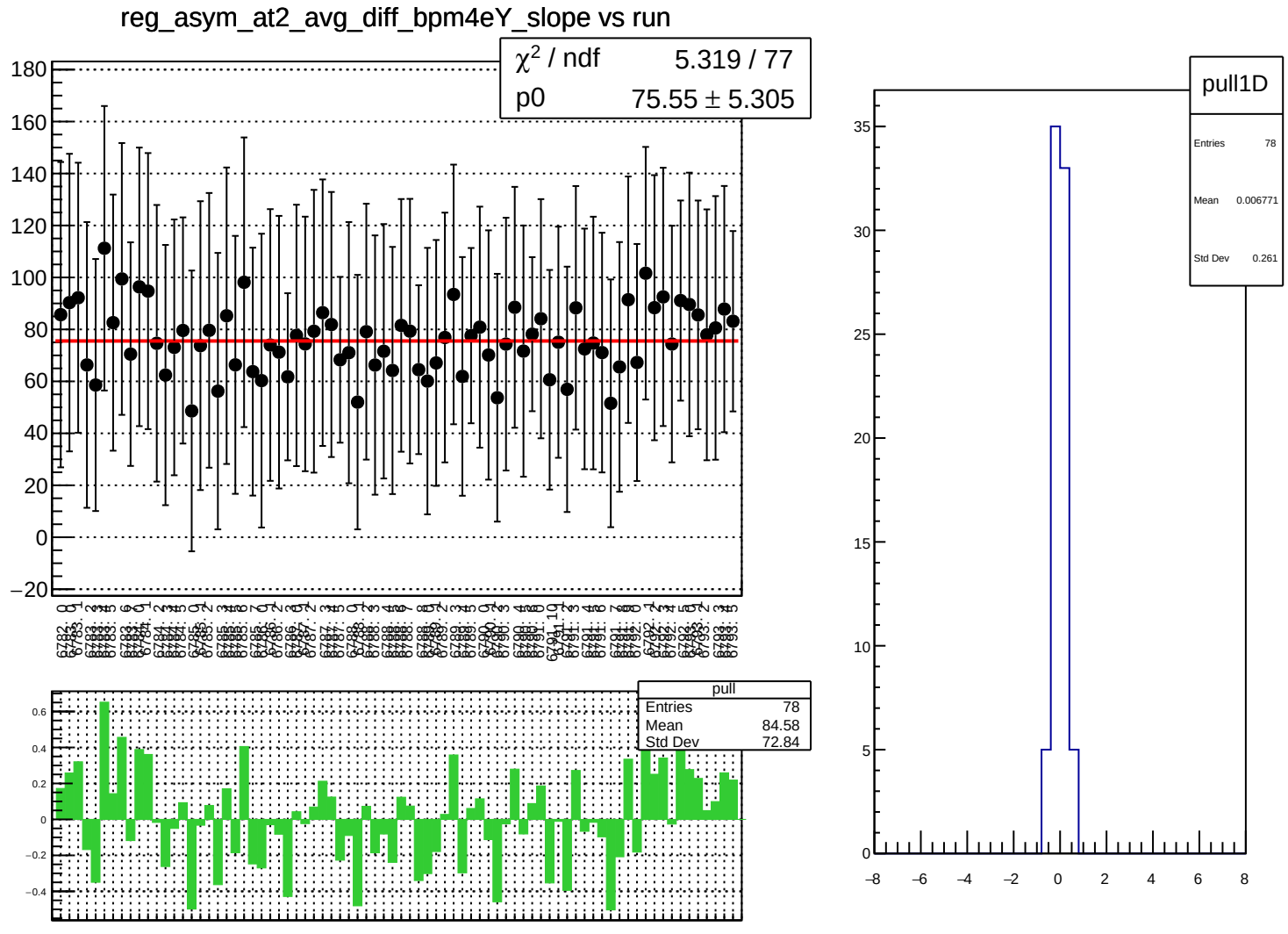

pull1D
Entries 78
Mean −0.006496
Std Dev 0.3973

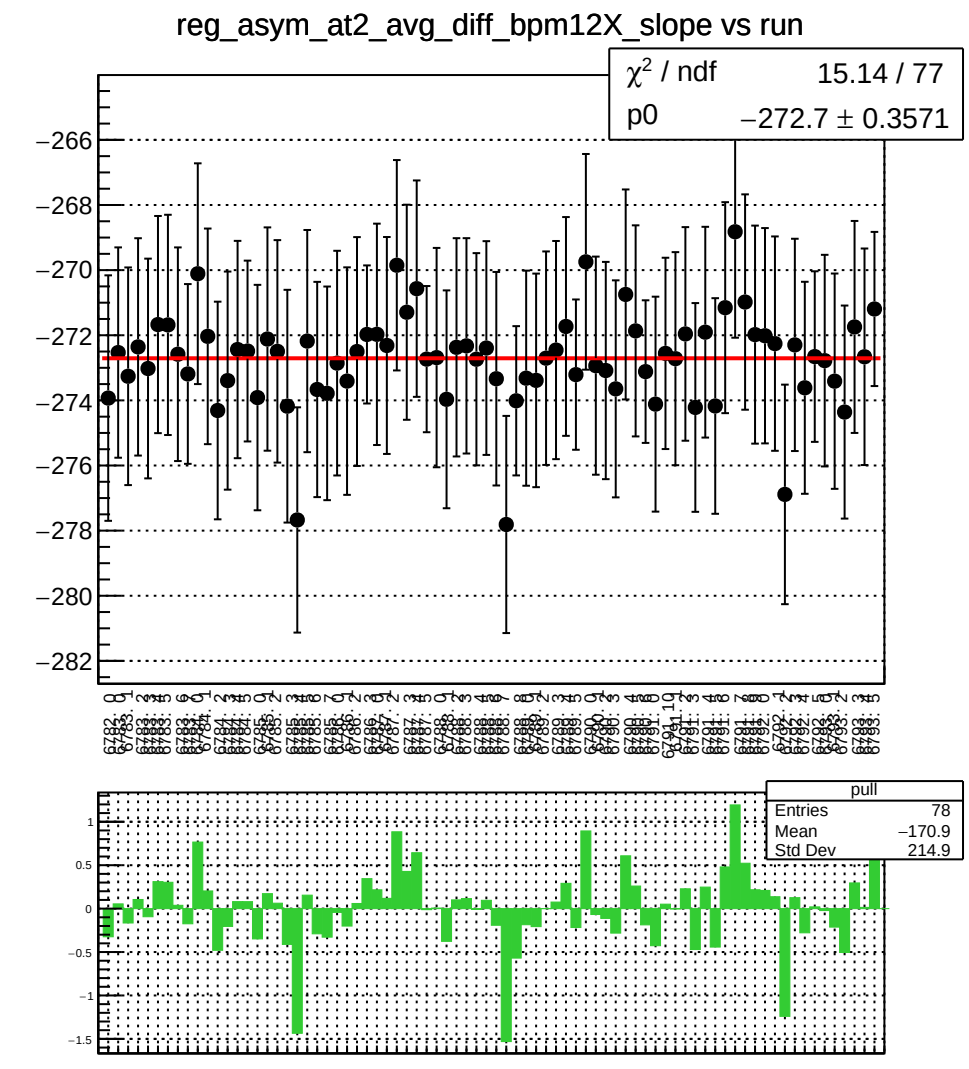

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.961 / 77
p0 38.74 ± 3.846
pull
Entries 78
Mean 96.32
Std Dev 51.49

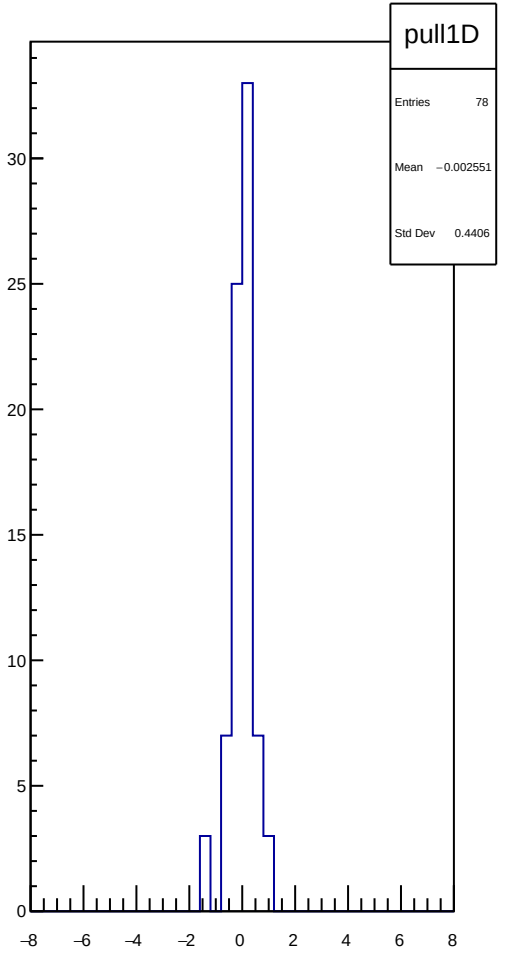

pull1D
Entries 78
Mean −0.007078
Std Dev 0.2521

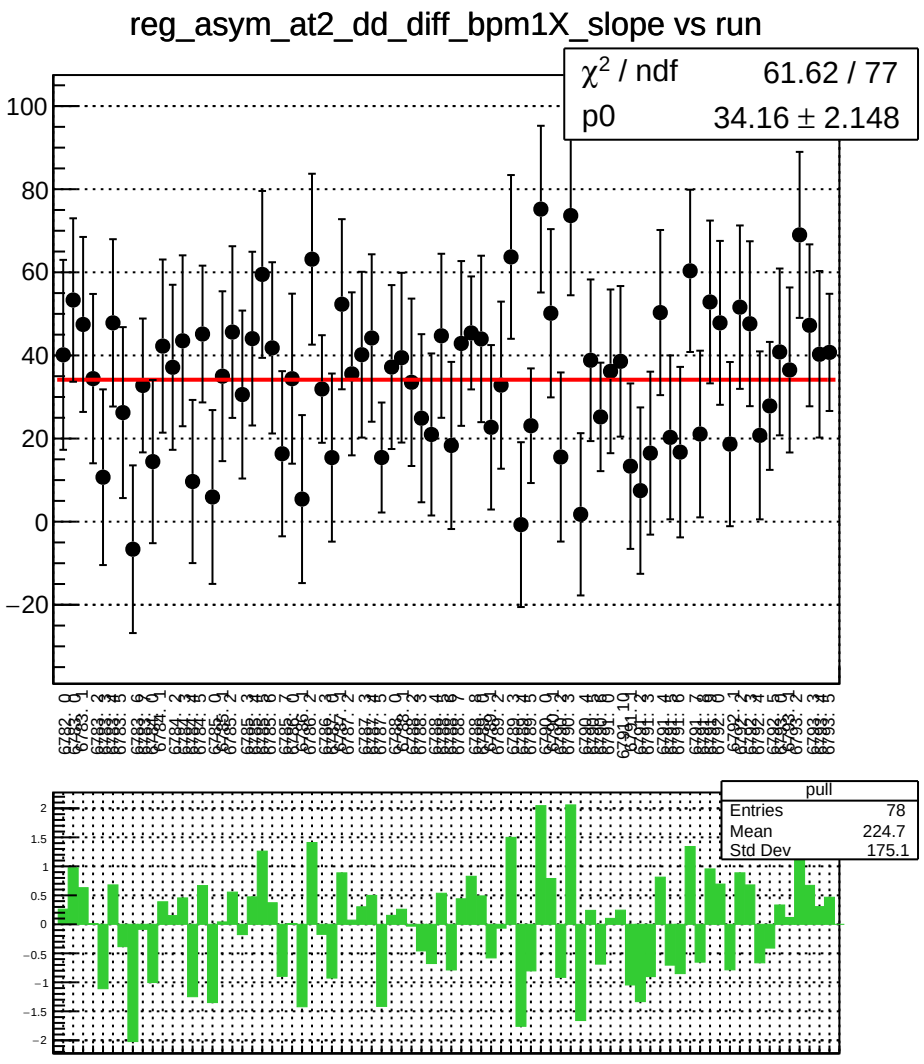

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.27 / 77
p0 523.9 ± 7.581
650
600
550
500
450
400
pull
Entries 78
Mean −289.6
Std Dev 322.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

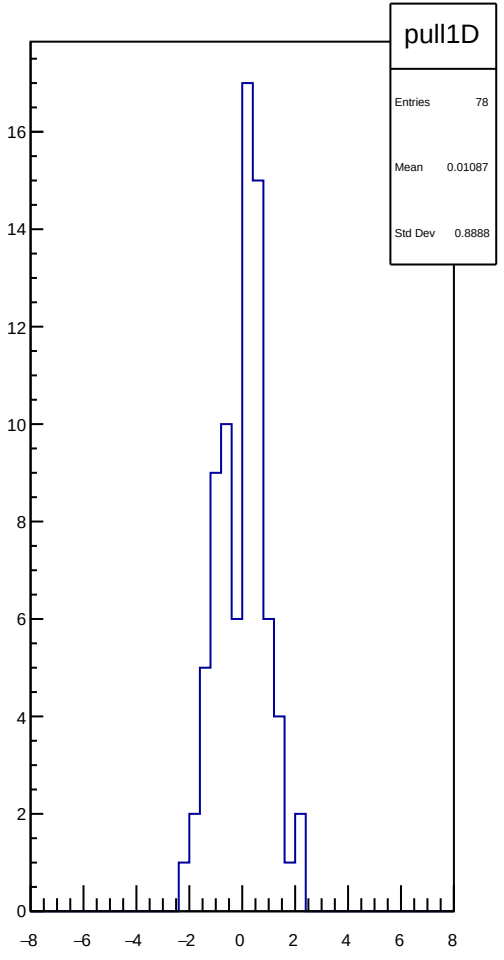

pull1D
Entries 78
Mean 0.005588
Std Dev 0.3966
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

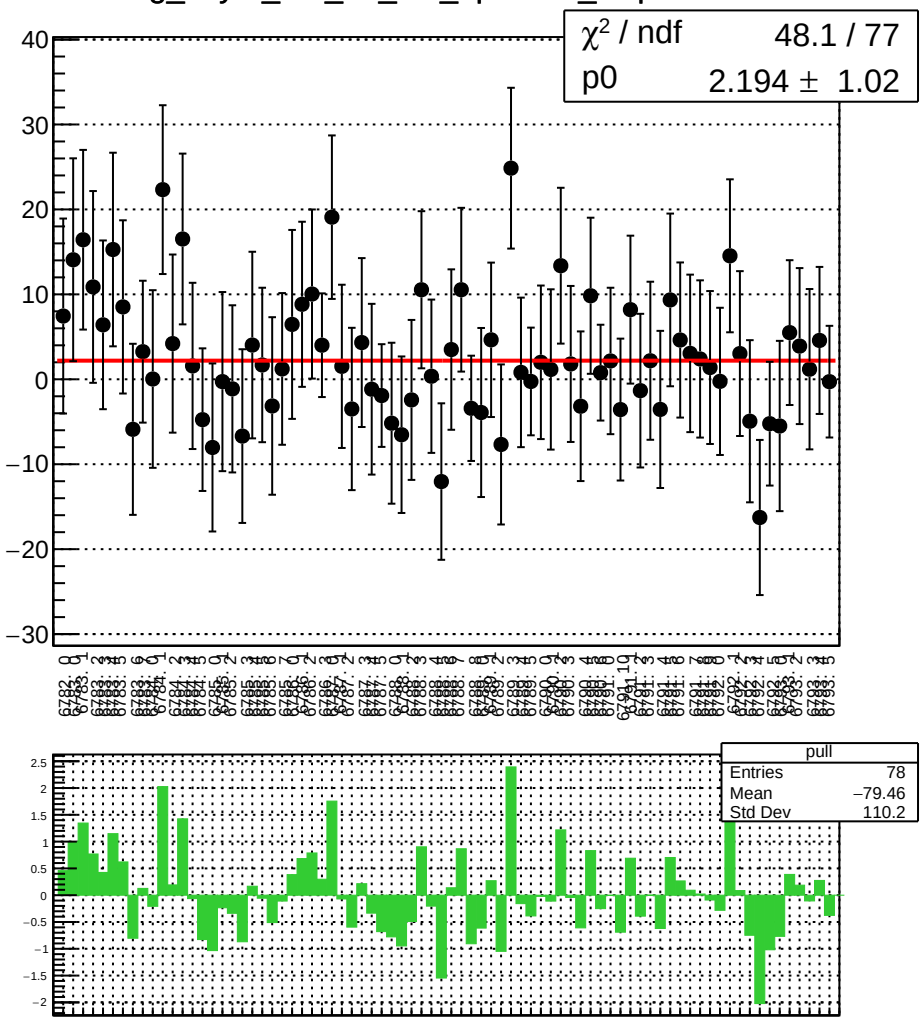

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.319 / 77
p0 75.55 ± 5.305
pull
Entries 78
Mean 84.58
Std Dev 72.84
pull1D
Entries 78
Mean 0.006771
Std Dev 0.261

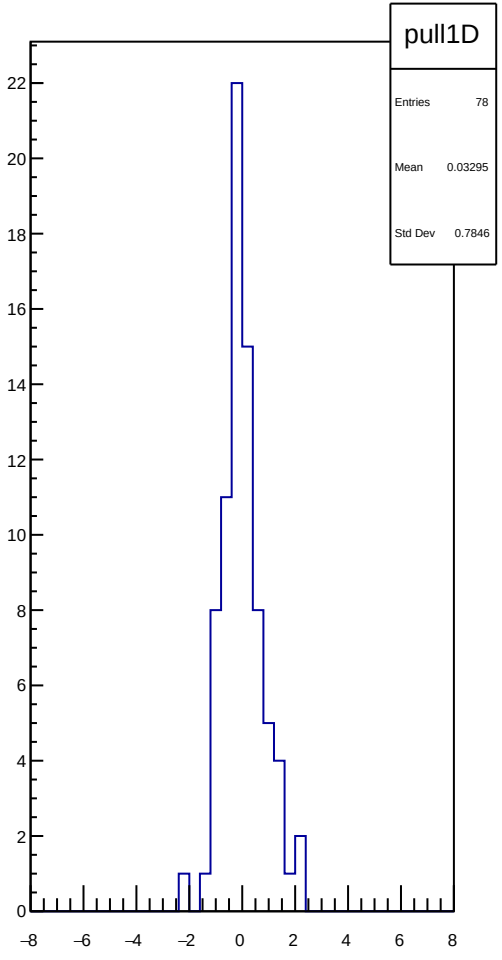

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 15.14 / 77
p0 −272.7 ± 0.3571
pull
Entries 78
Mean −170.9
Std Dev 214.9

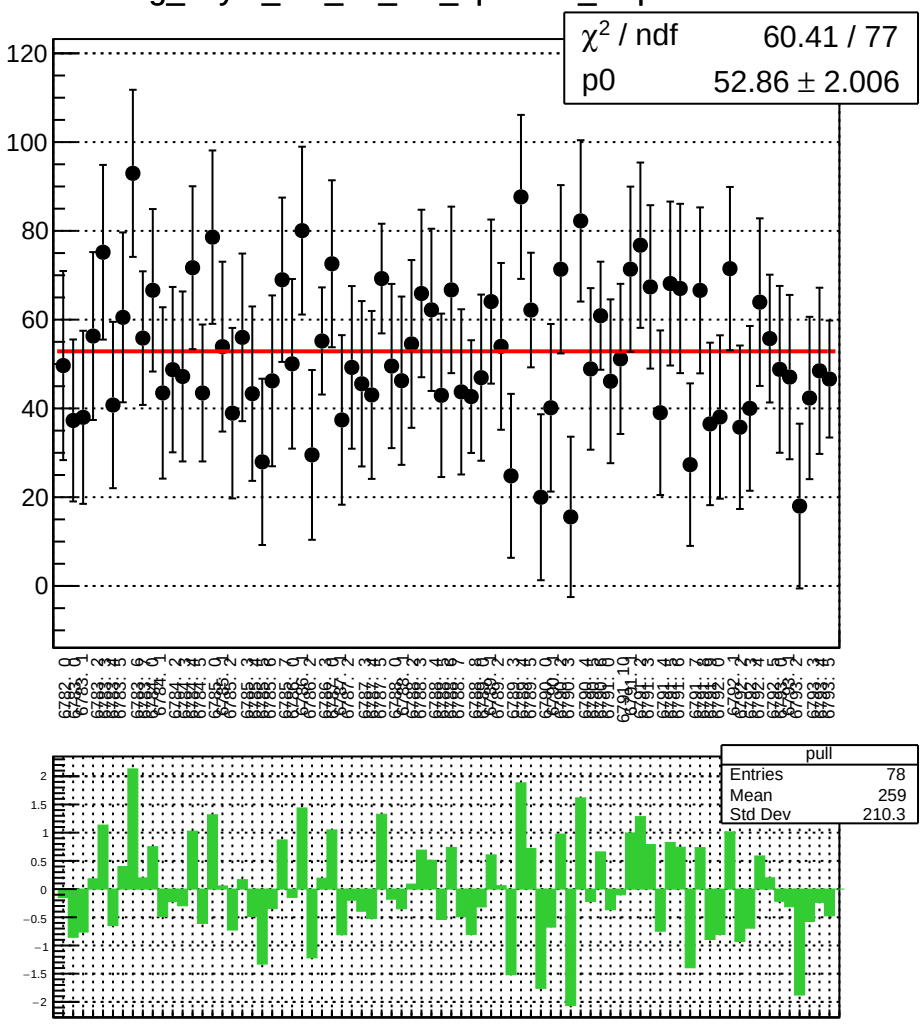

pull1D
Entries 78
Mean −0.002551
Std Dev 0.4406

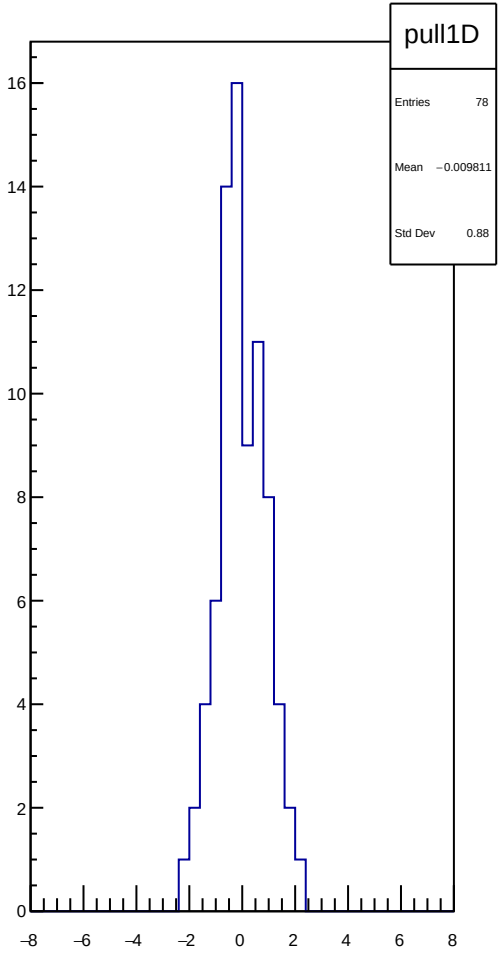

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 61.62 / 77
p0 34.16 ± 2.148
pull
Entries 78
Mean 224.7
Std Dev 175.1

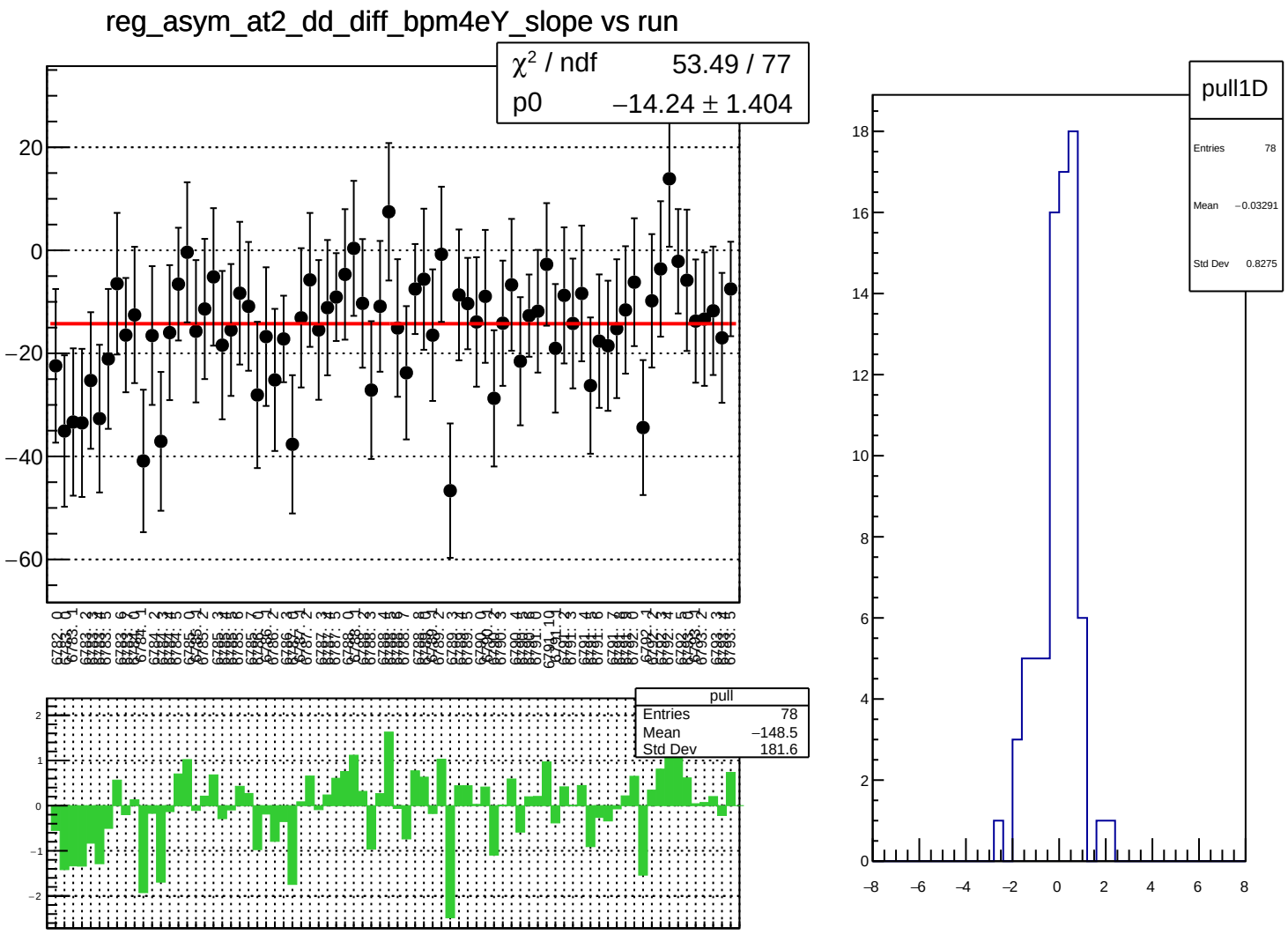

pull1D
Entries 78
Mean 0.01087
Std Dev 0.8888

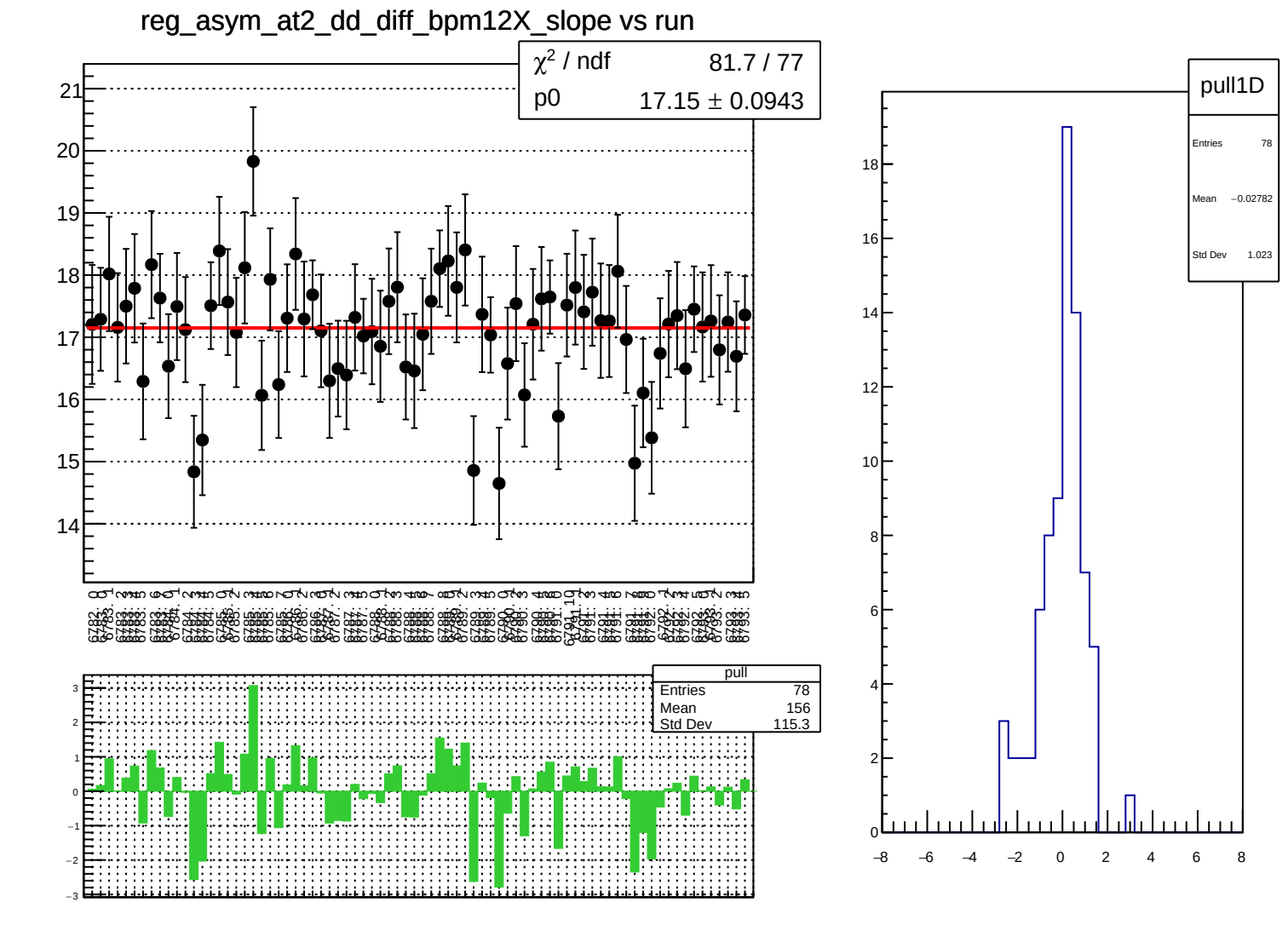

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 48.1 / 77
p0 2.194 ± 1.02
pull
Entries 78
Mean −79.46
Std Dev 110.2

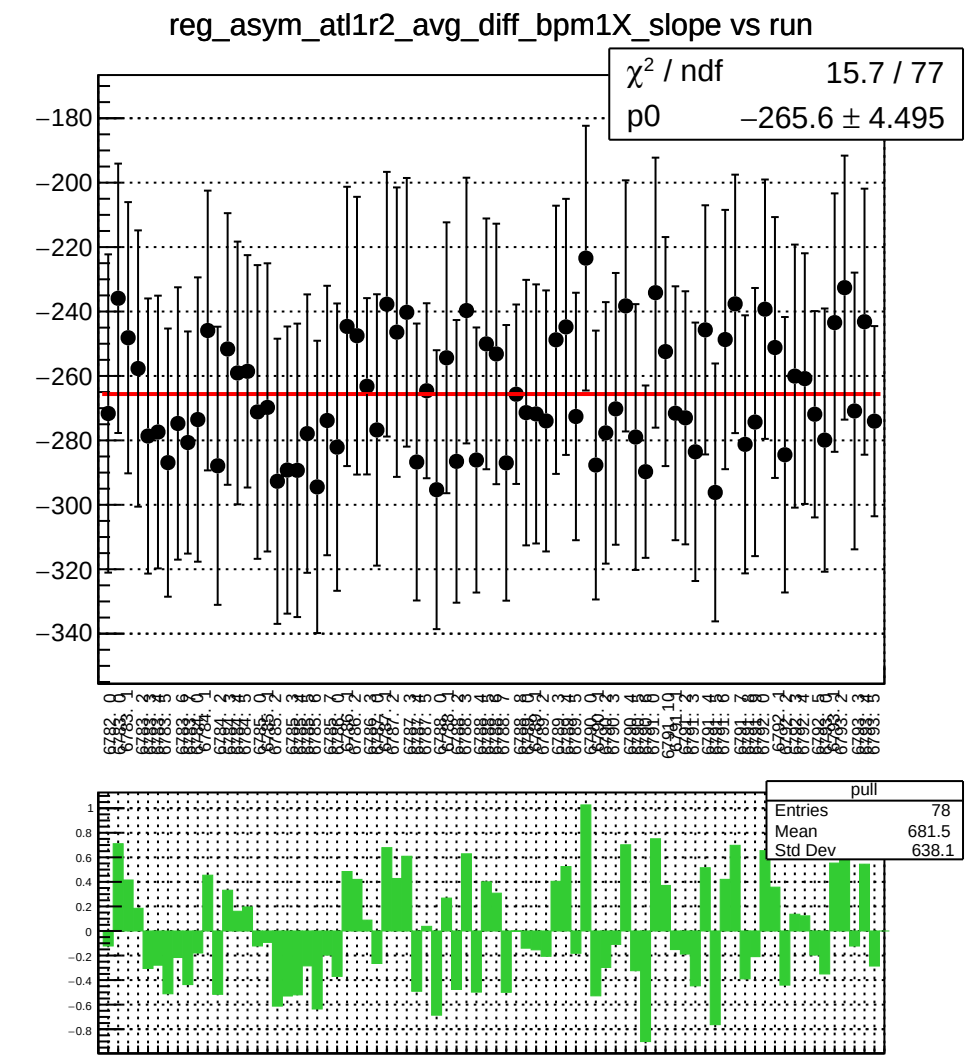

pull1D
Entries 78
Mean 0.03295
Std Dev 0.7846

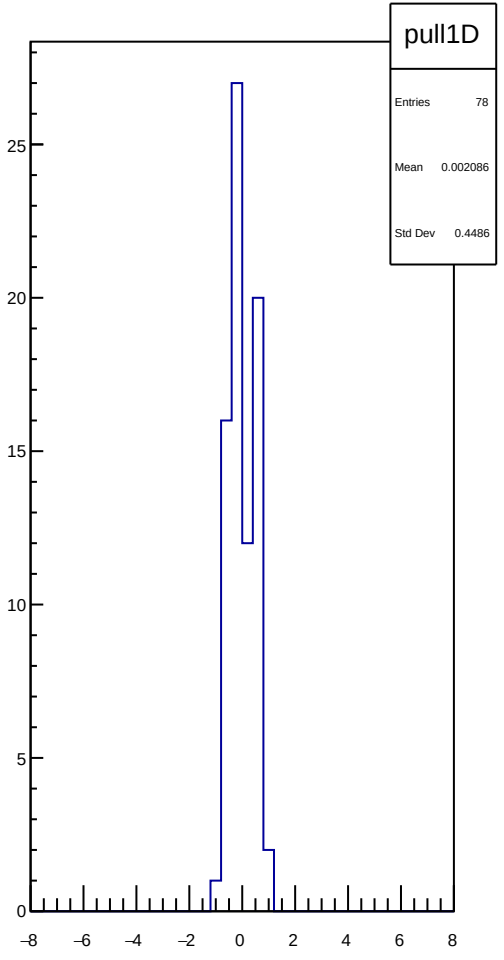

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.41 / 77
p0 52.86 ± 2.006
pull
Entries 78
Mean 259
Std Dev 210.3

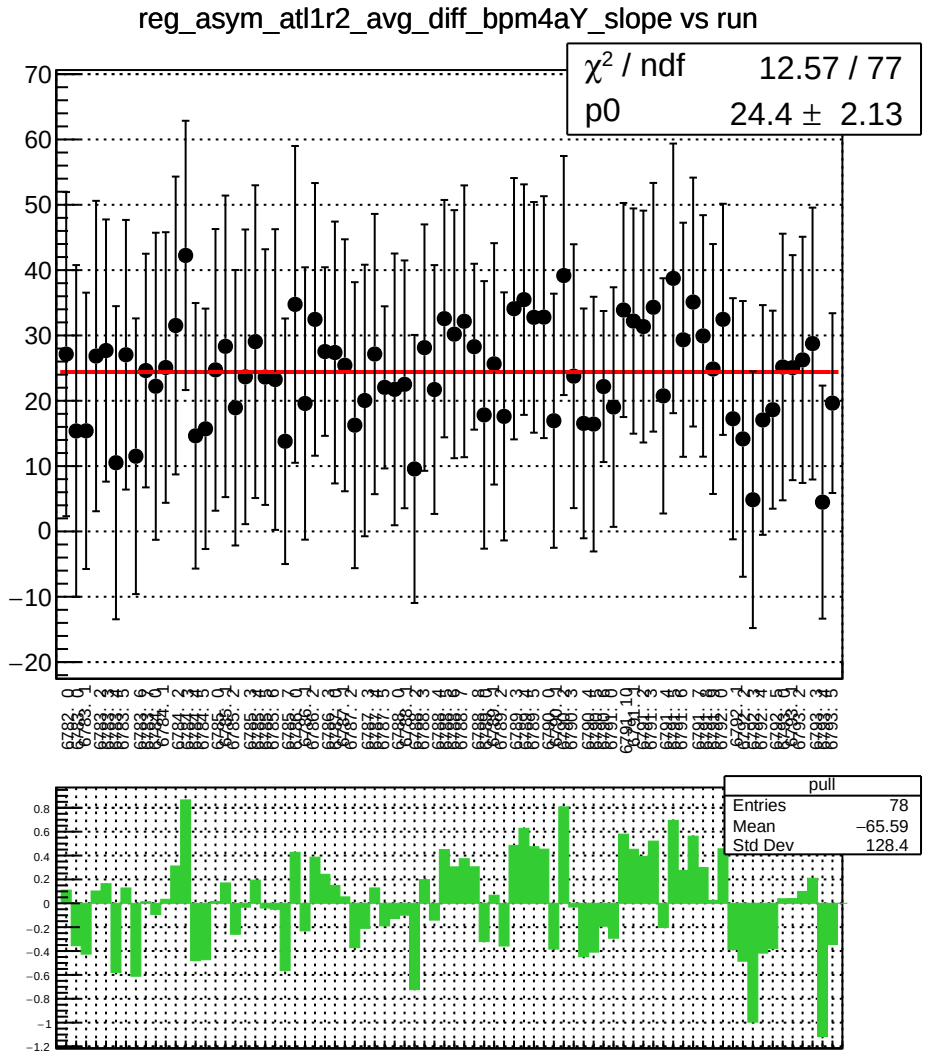

pull1D
Entries 78
Mean −0.009811
Std Dev 0.88

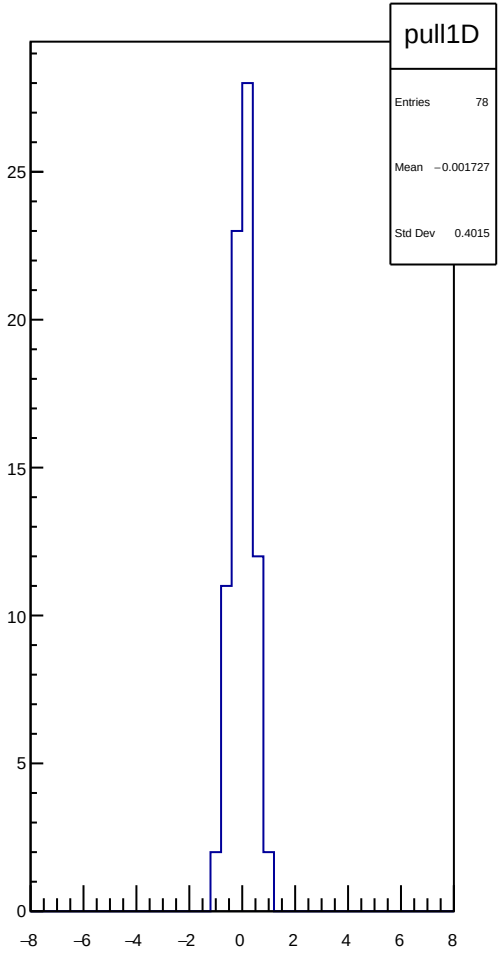

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 53.49 / 77
p0 −14.24 ± 1.404
pull
Entries 78
Mean −148.5
Std Dev 181.6
pull1D
Entries 78
Mean −0.03291
Std Dev 0.8275

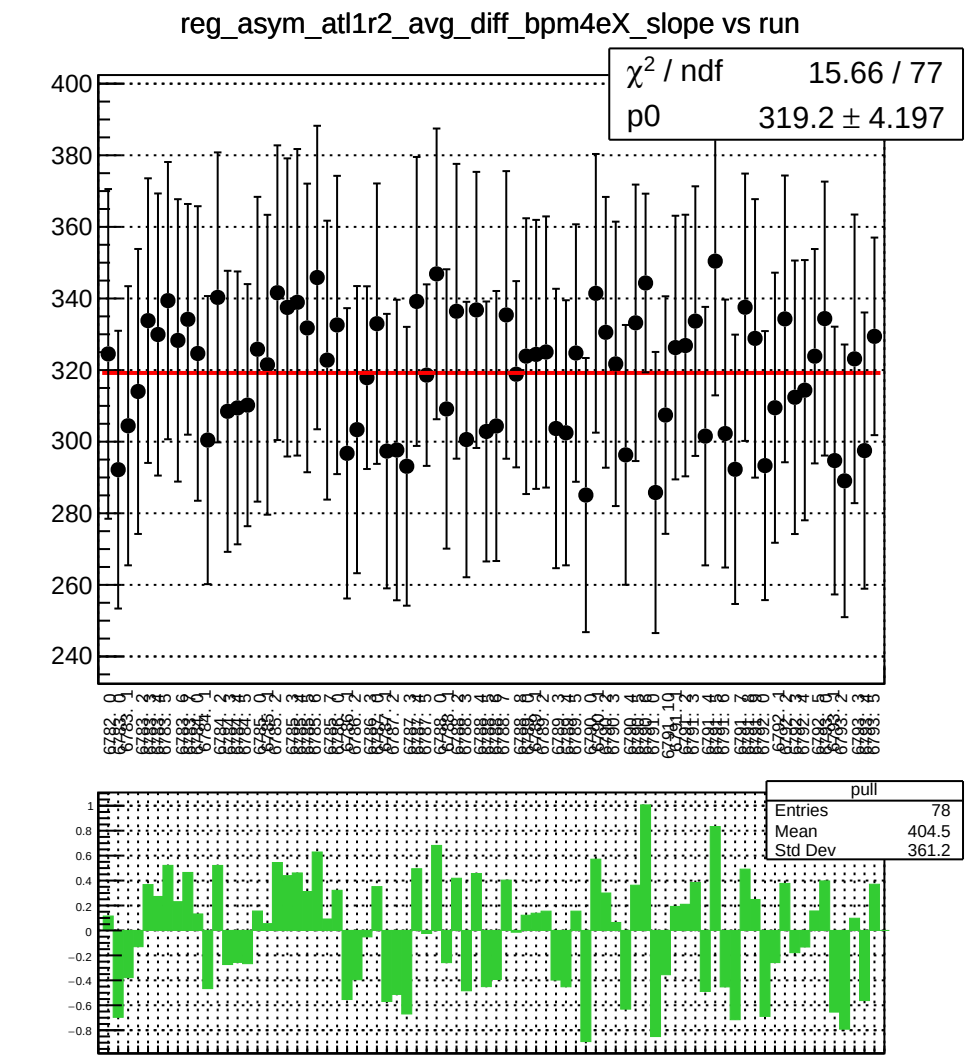

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 81.7 / 77
p0 17.15 ± 0.0943
pull
Entries 78
Mean 156
Std Dev 115.3
pull1D
Entries 78
Mean −0.02782
Std Dev 1.023

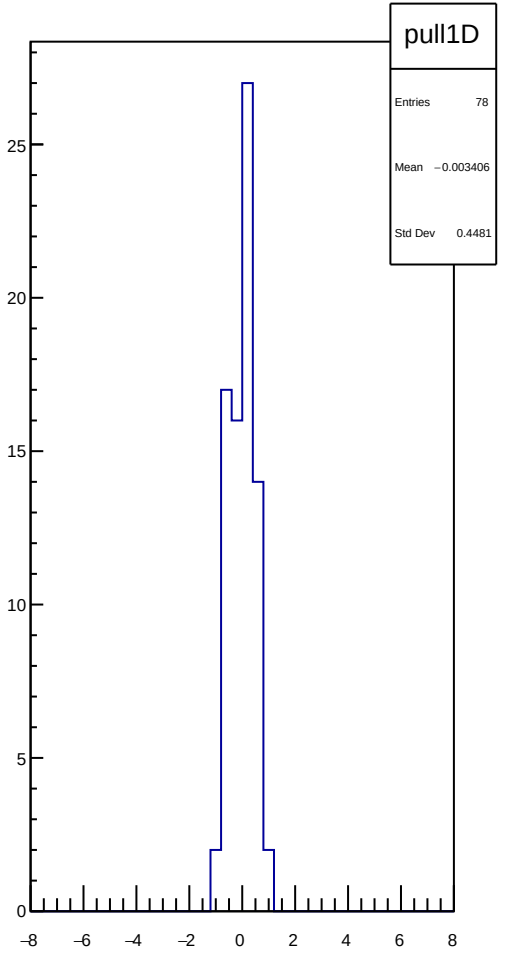

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 15.7 / 77
p0 −265.6 ± 4.495
pull
Entries 78
Mean 681.5
Std Dev 638.1

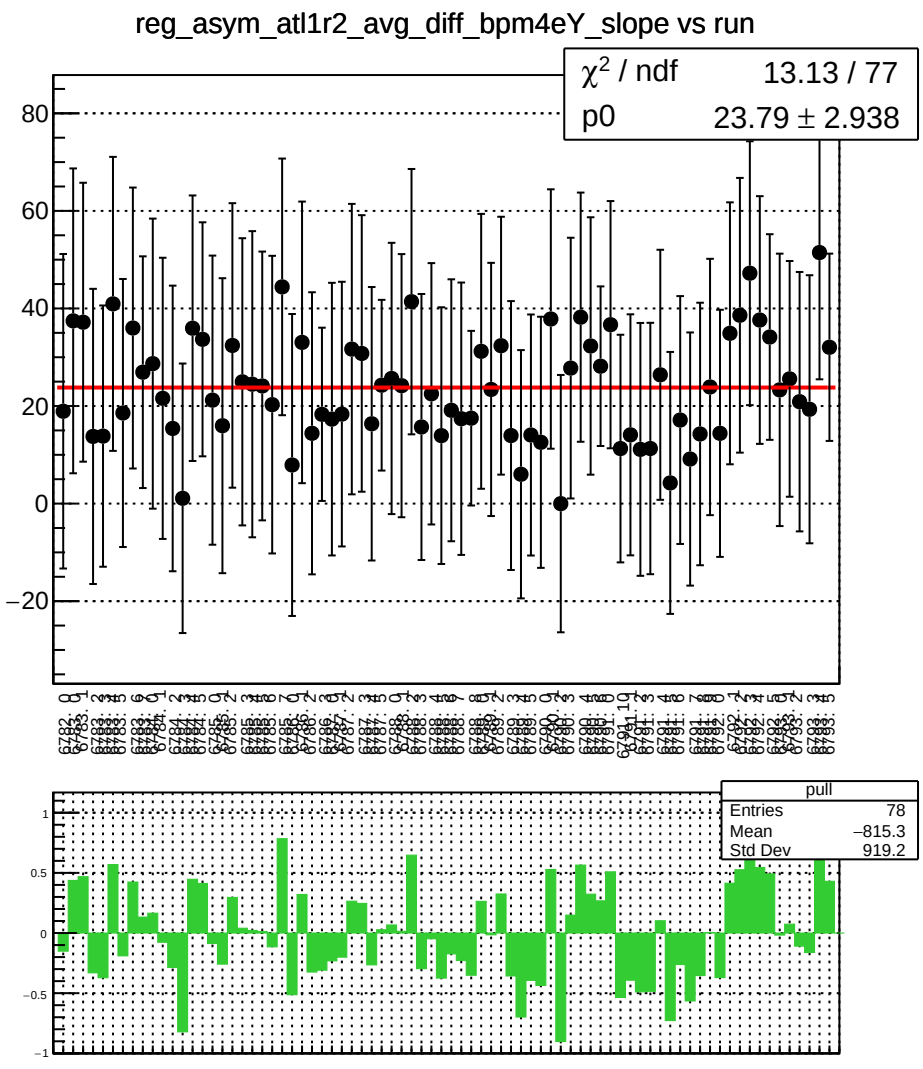

pull1D
Entries 78
Mean 0.002086
Std Dev 0.4486

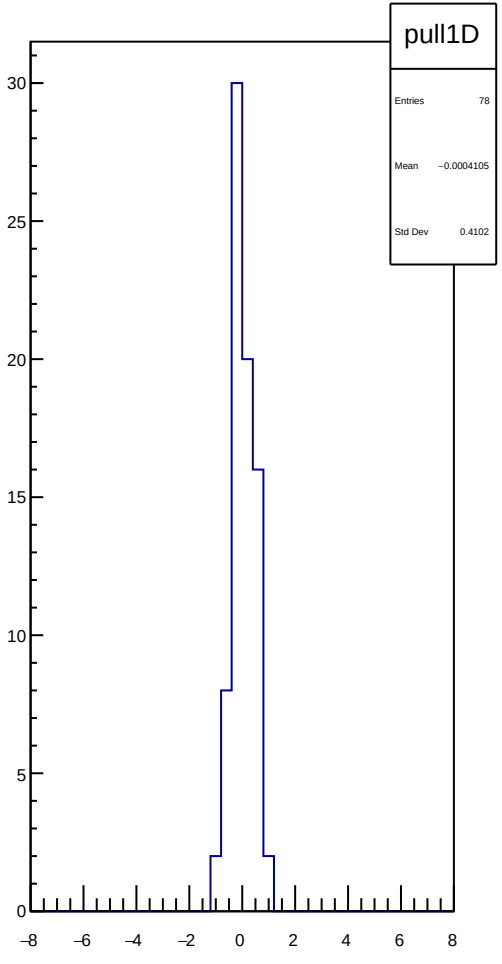

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.57 / 77
p0 24.4 ± 2.13
pull
Entries 78
Mean −65.59
Std Dev 128.4

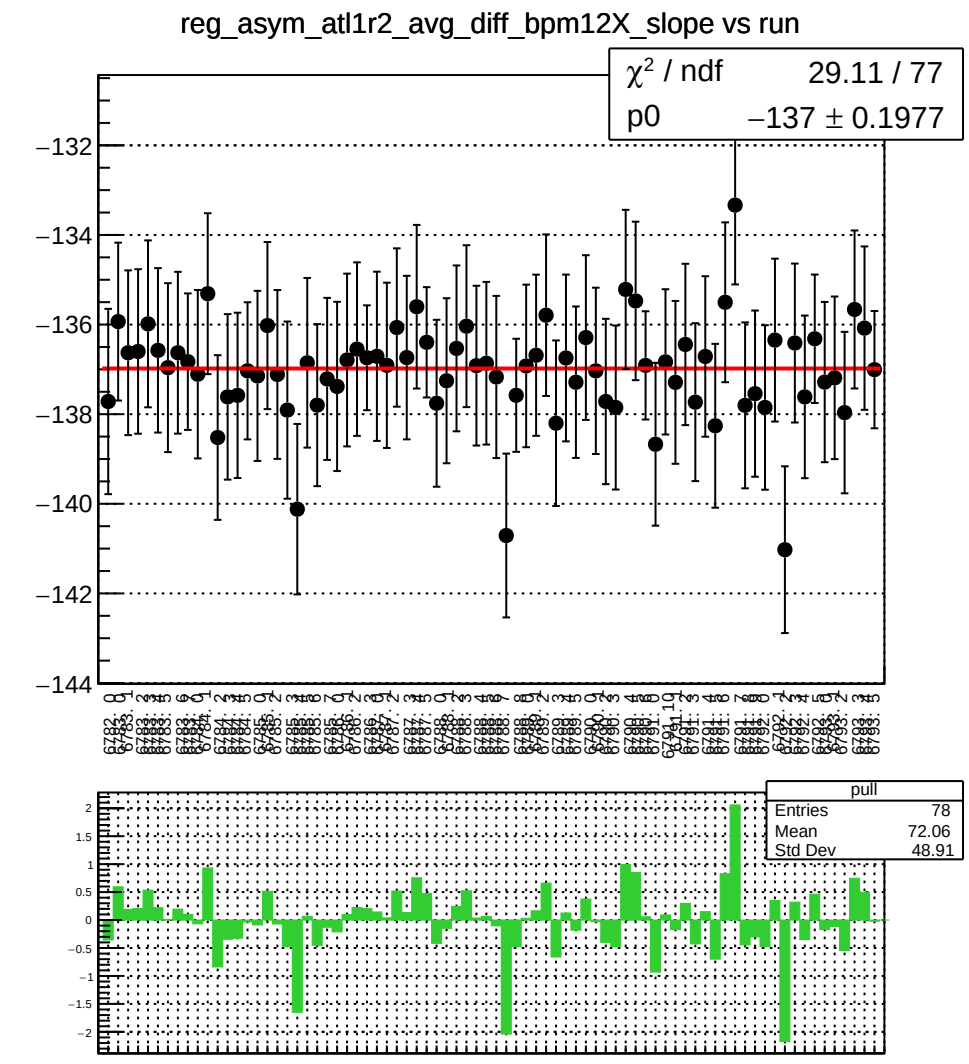

pull1D
Entries 78
Mean −0.001727
Std Dev 0.4015

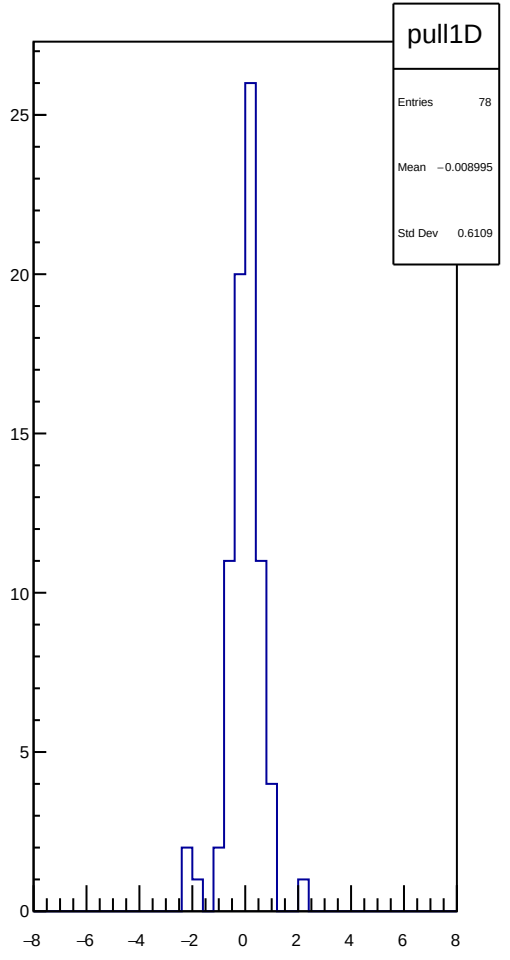

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.66 / 77
p0 319.2 ± 4.197
pull
Entries 78
Mean 404.5
Std Dev 361.2

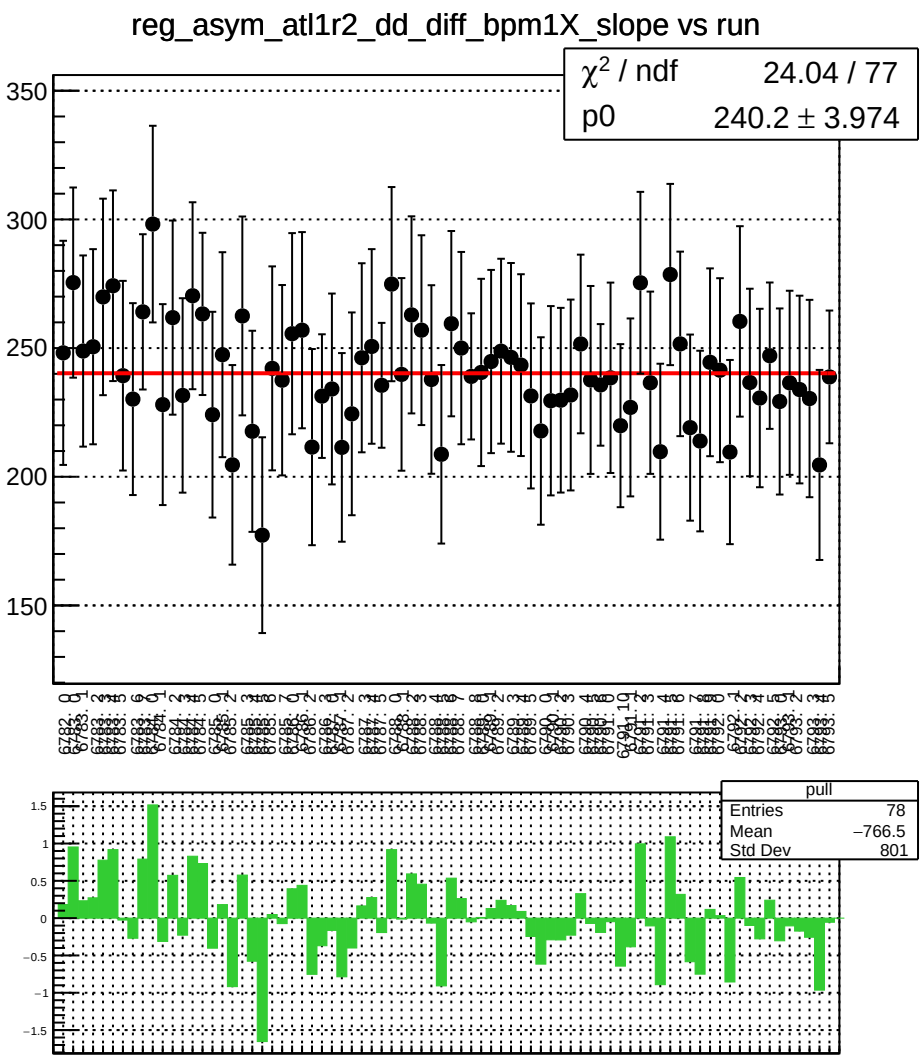

pull1D
Entries 78
Mean −0.003406
Std Dev 0.4481

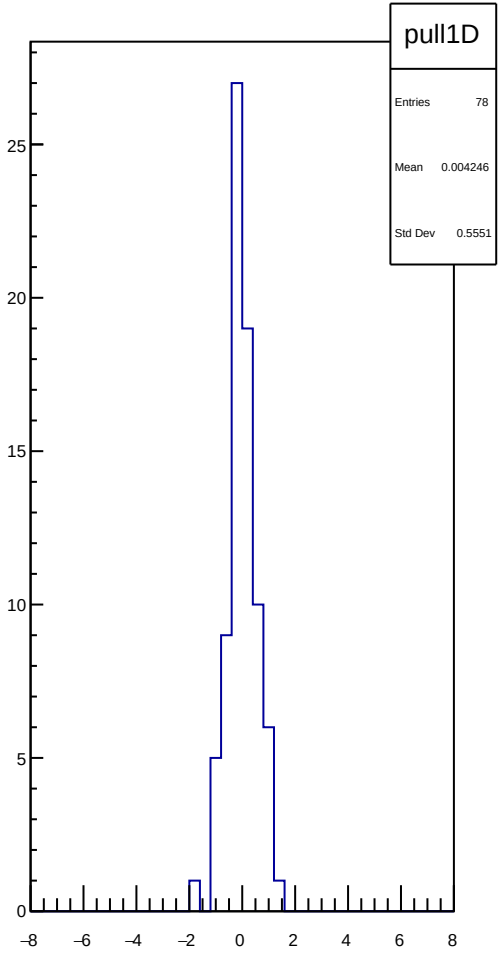

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.13 / 77
p0 23.79 ± 2.938
pull
Entries 78
Mean −815.3
Std Dev 919.2

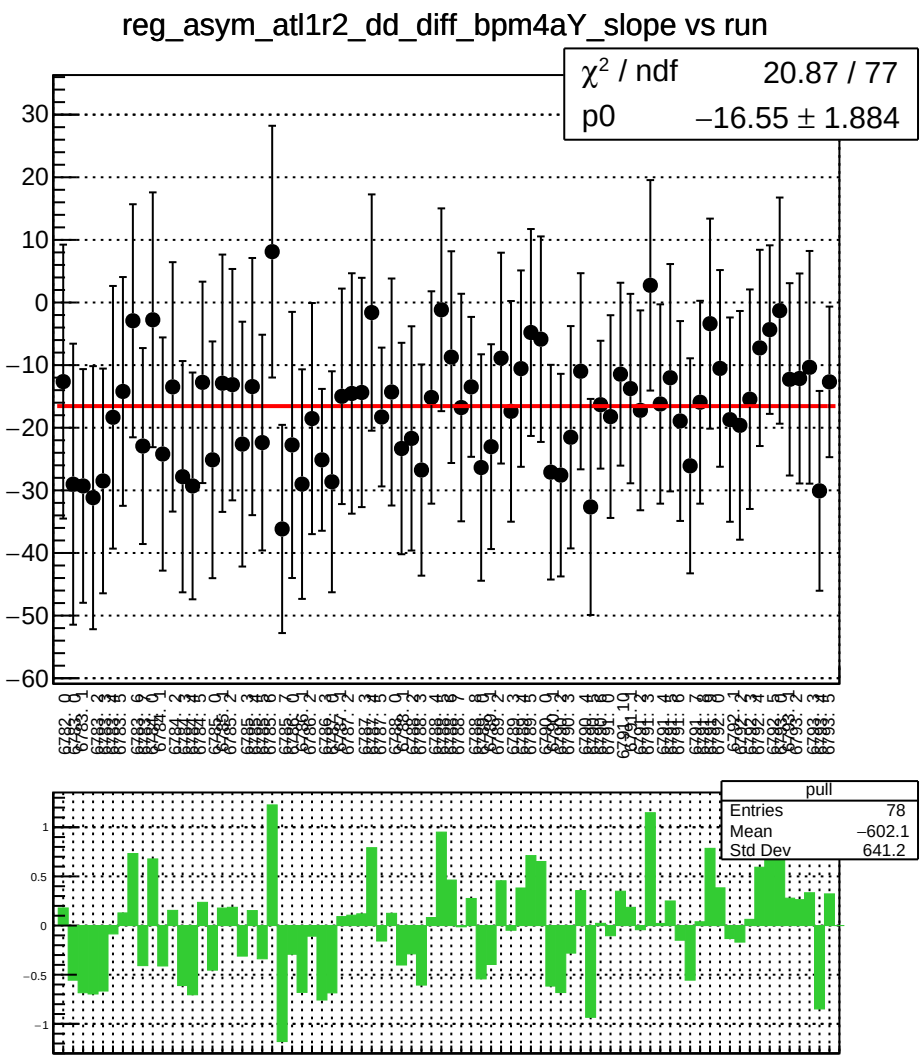

pull1D
Entries 78
Mean −0.0004105
Std Dev 0.4102

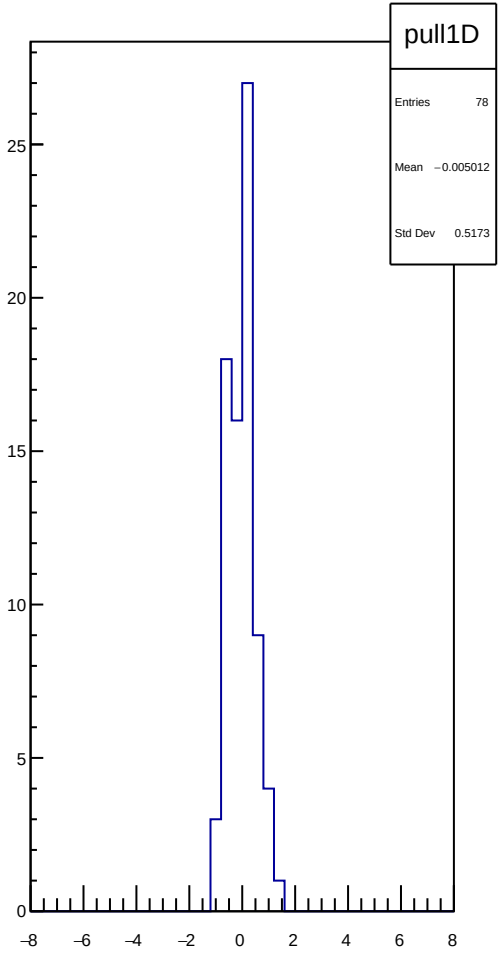

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 29.11 / 77
p0 −137 ± 0.1977
−132
−134
−136
−138
−140
−142
−144
pull
Entries 78
Mean 72.06
Std Dev 48.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

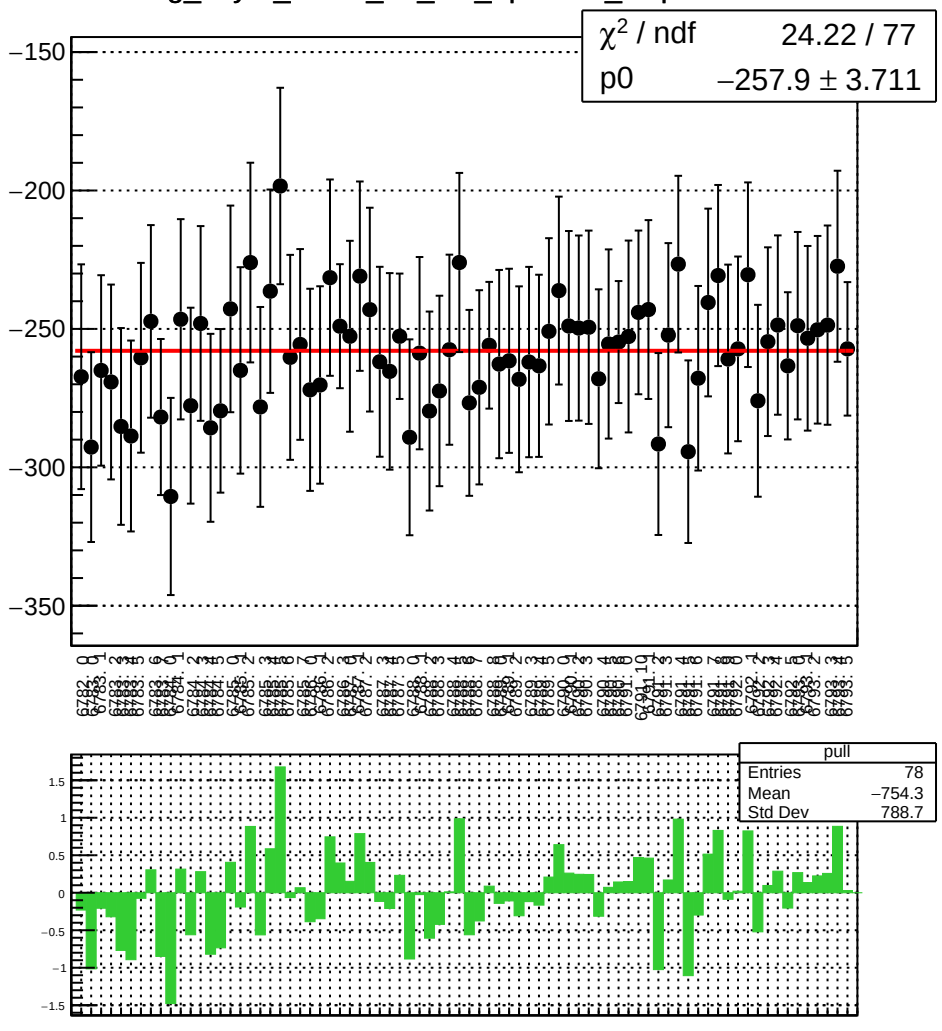

pull1D
Entries 78
Mean −0.008995
Std Dev 0.6109
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

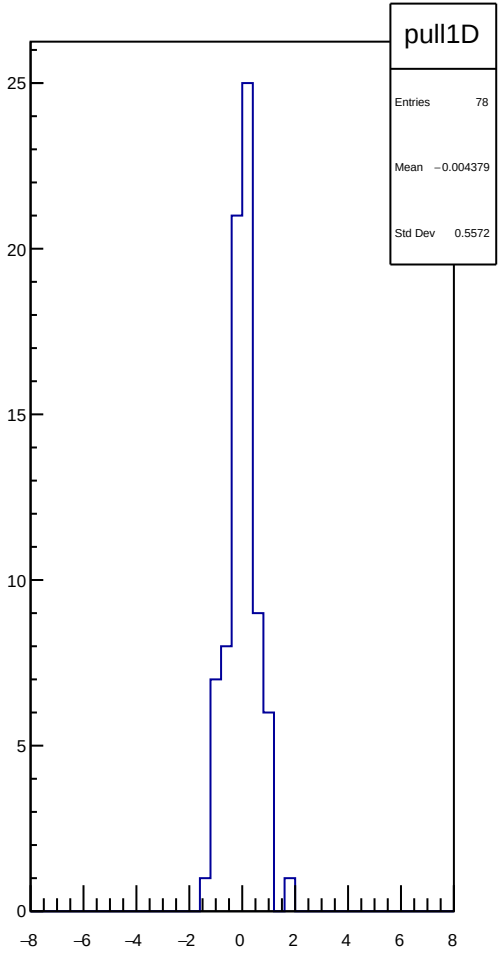

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 24.04 / 77
p0 240.2 ± 3.974
pull
Entries 78
Mean −766.5
Std Dev 801

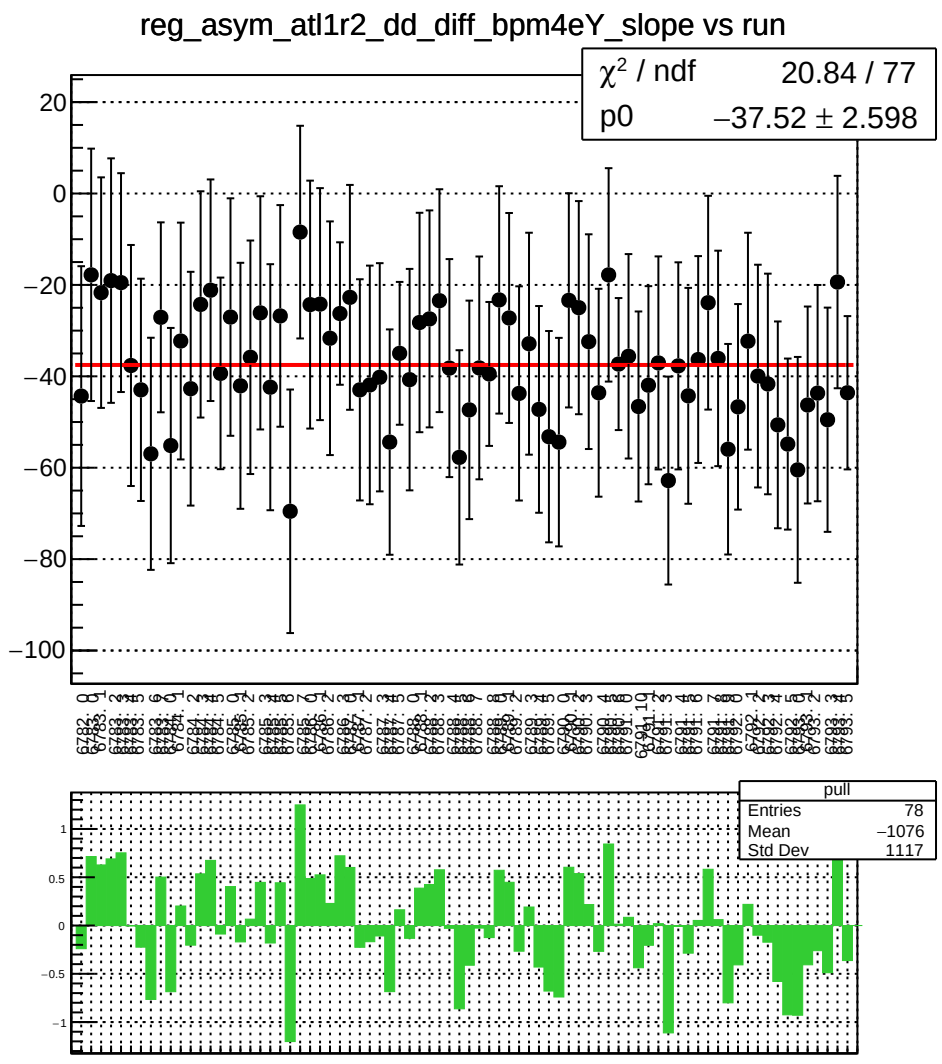

pull1D
Entries 78
Mean 0.004246
Std Dev 0.5551

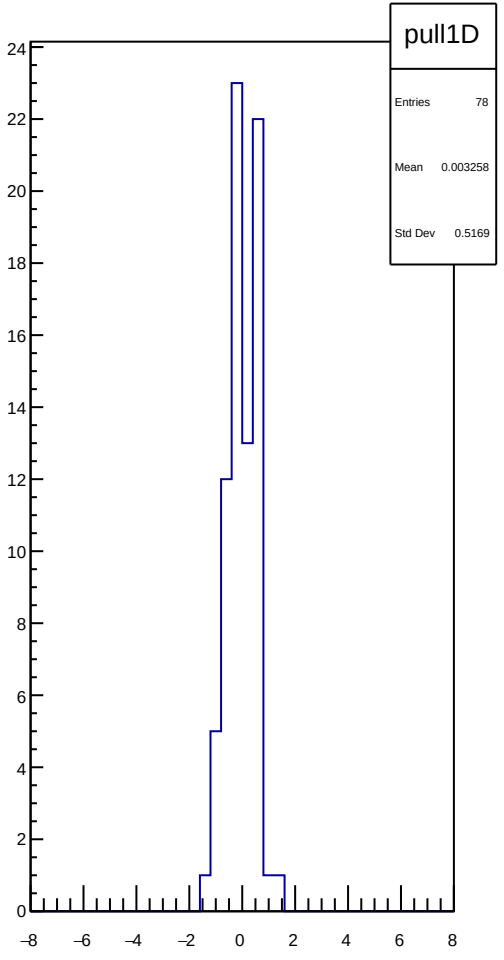

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.87 / 77
p0 −16.55 ± 1.884
pull
Entries 78
Mean −602.1
Std Dev 641.2

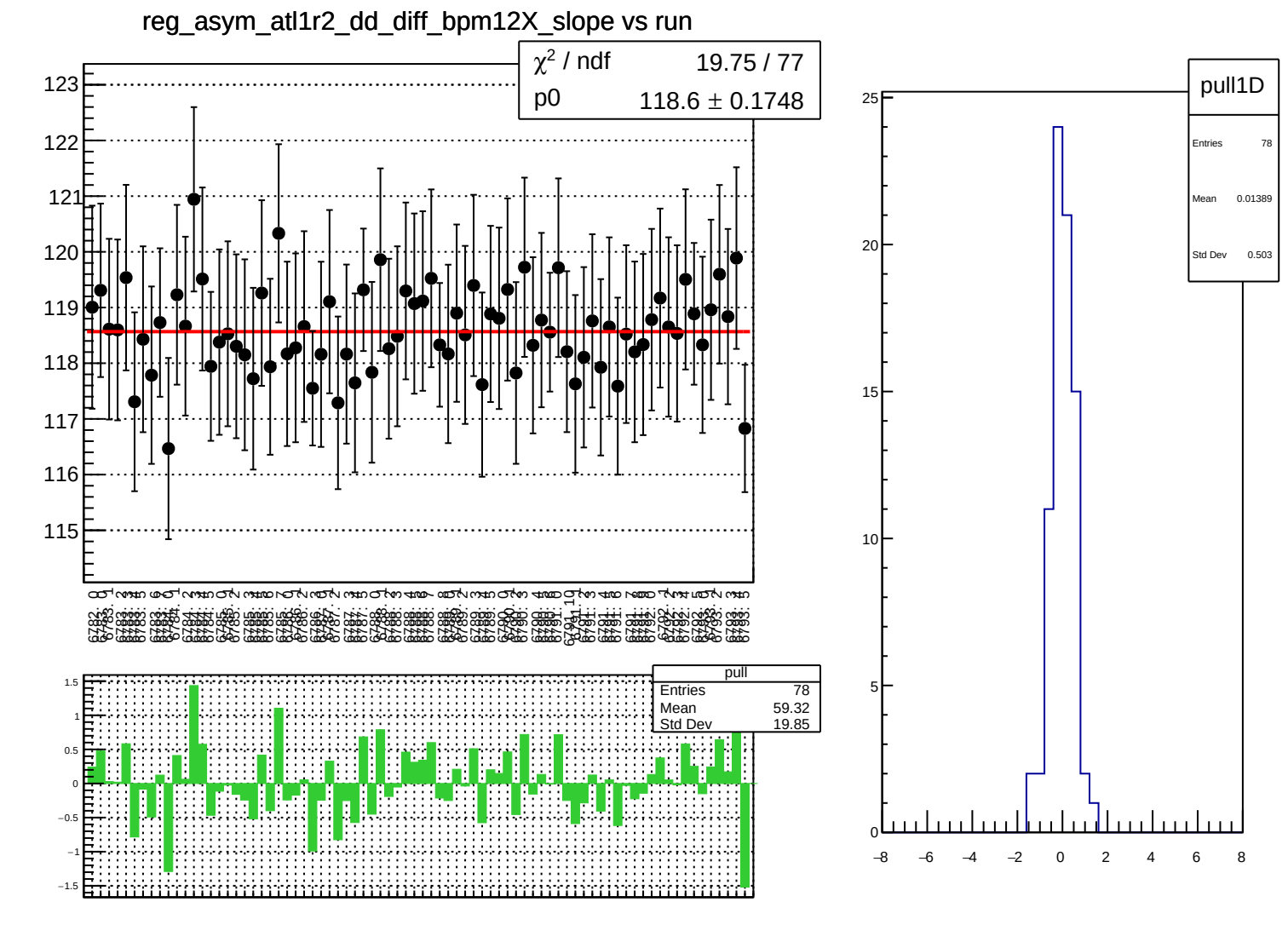

pull1D
Entries 78
Mean −0.005012
Std Dev 0.5173

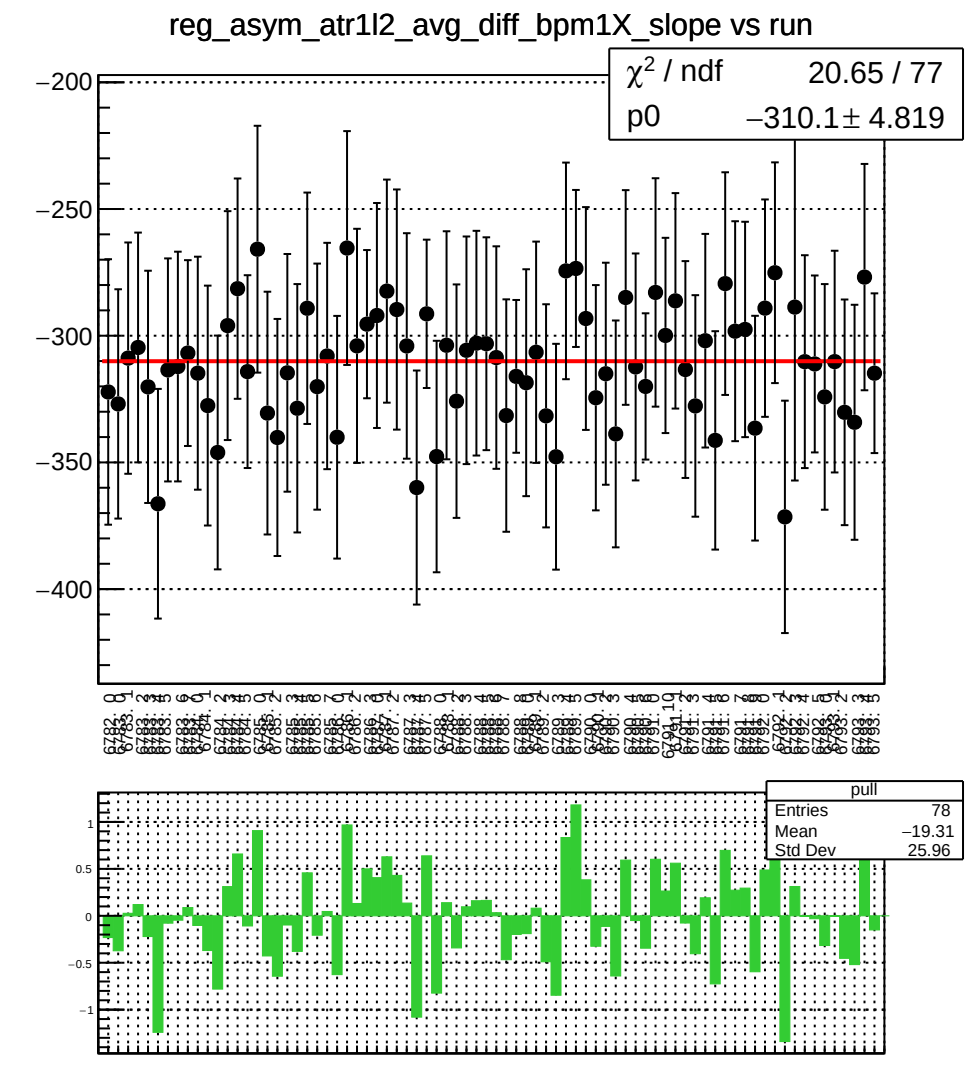

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 24.22 / 77
p0 −257.9 ± 3.711
pull
Entries 78
Mean −754.3
Std Dev 788.7

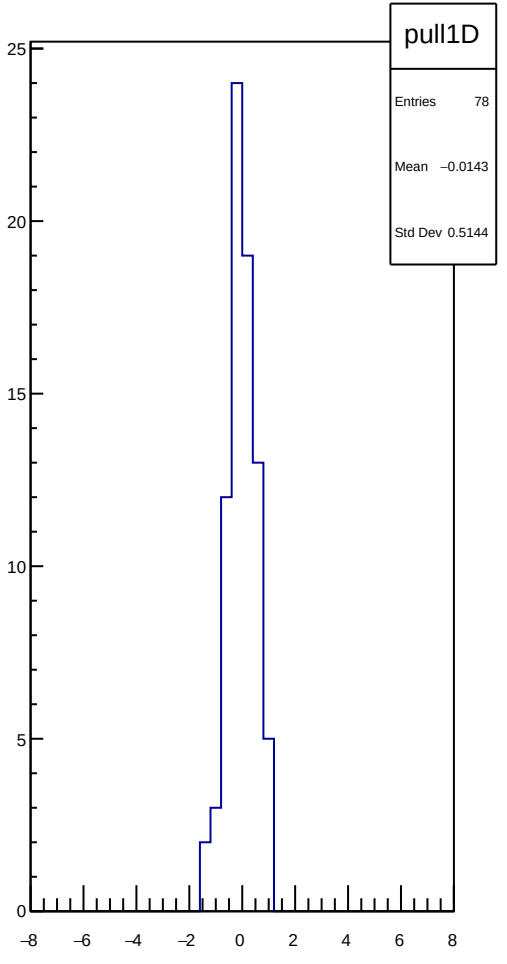

pull1D
Entries 78
Mean −0.004379
Std Dev 0.5572

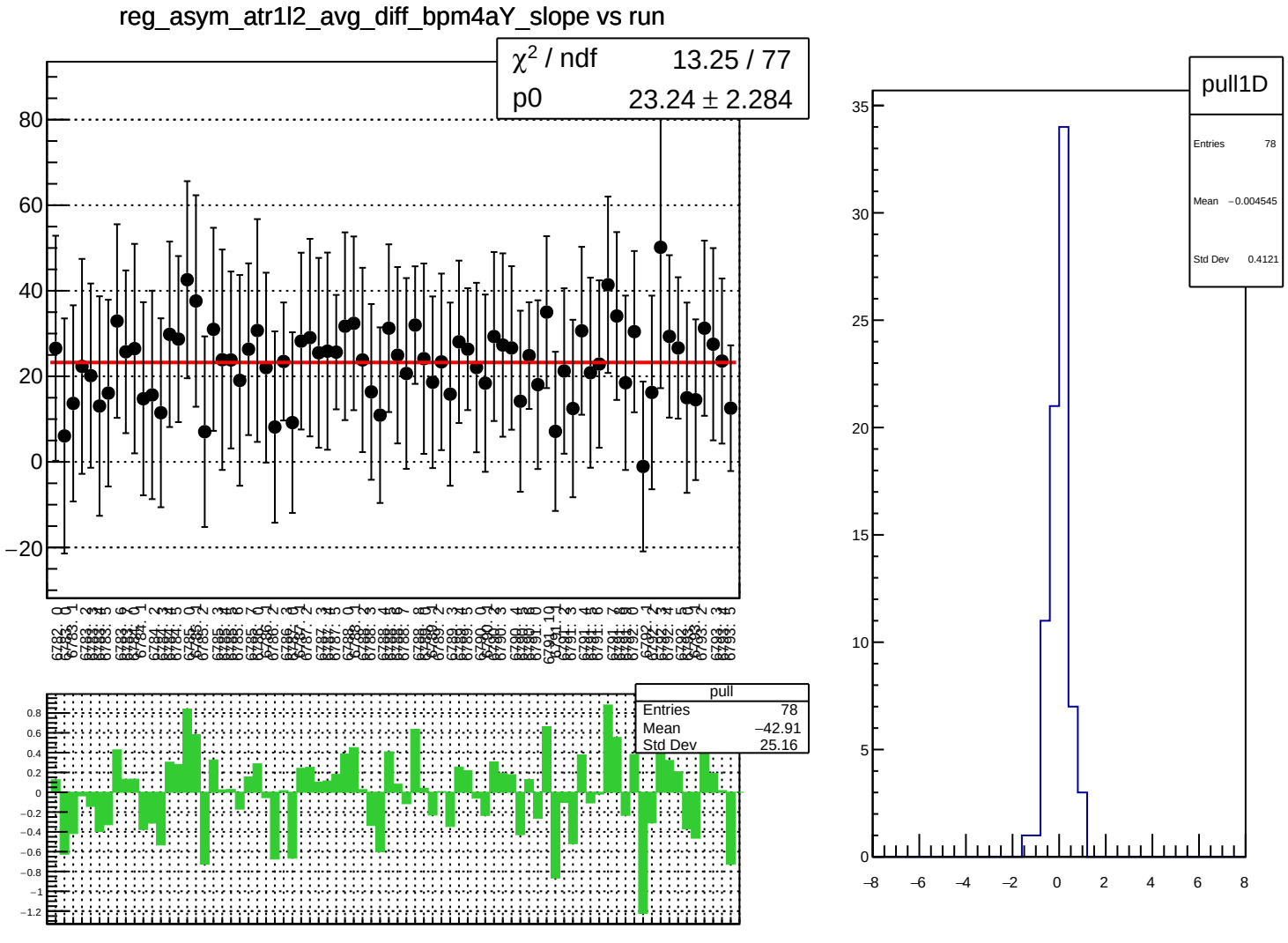

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.84 / 77
p0 −37.52 ± 2.598
pull
Entries 78
Mean −1076
Std Dev 1117

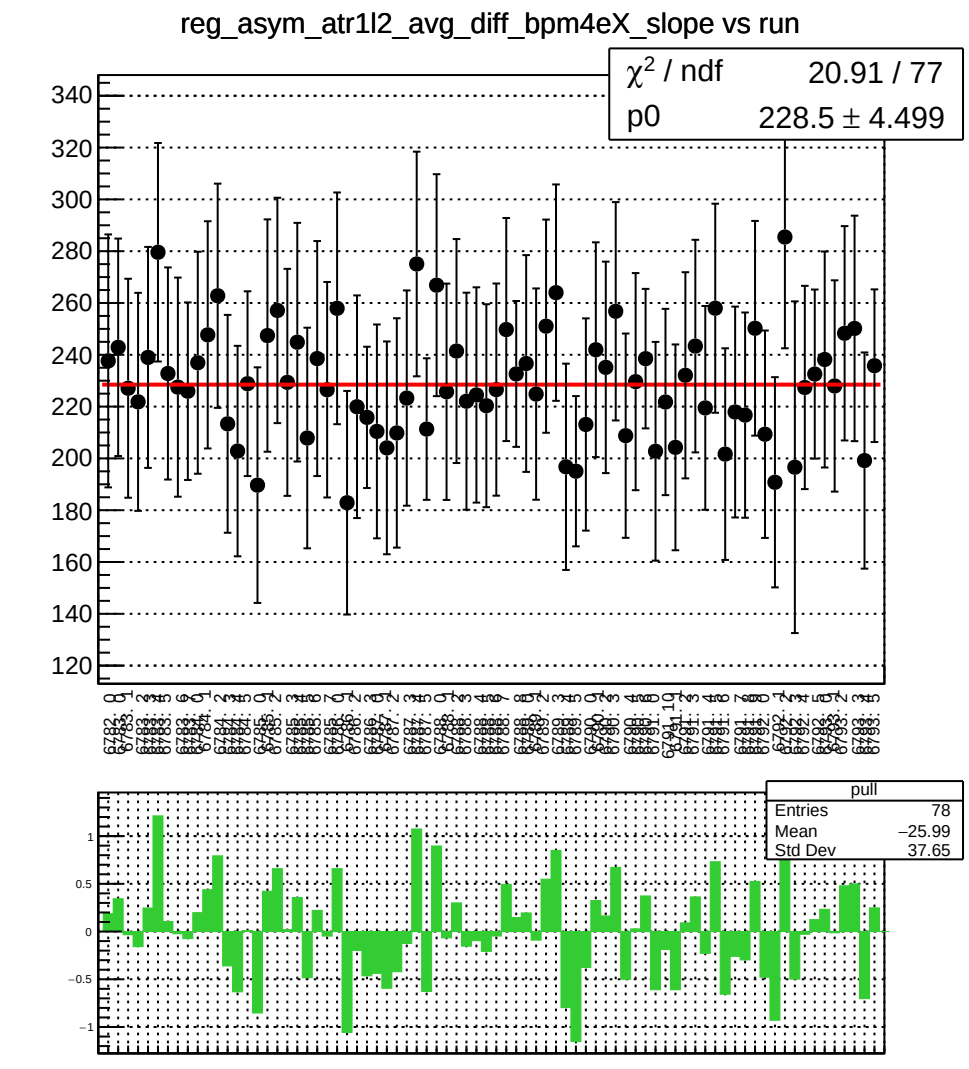

pull1D
Entries 78
Mean 0.003258
Std Dev 0.5169

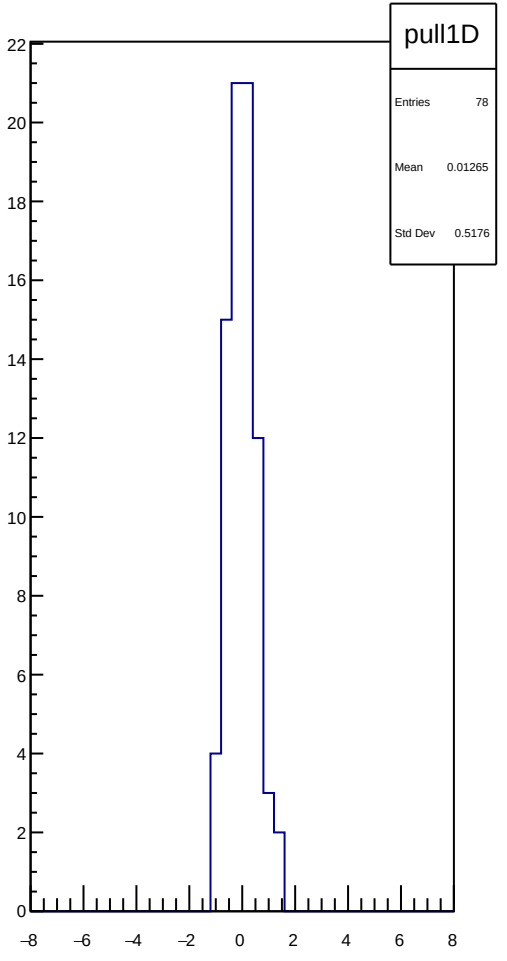

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 19.75 / 77
p0 118.6 ± 0.1748
123
122
121
120
119
118
117
116
115
pull
Entries 78
Mean 59.32
Std Dev 19.85
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 78
Mean 0.01389
Std Dev 0.503
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

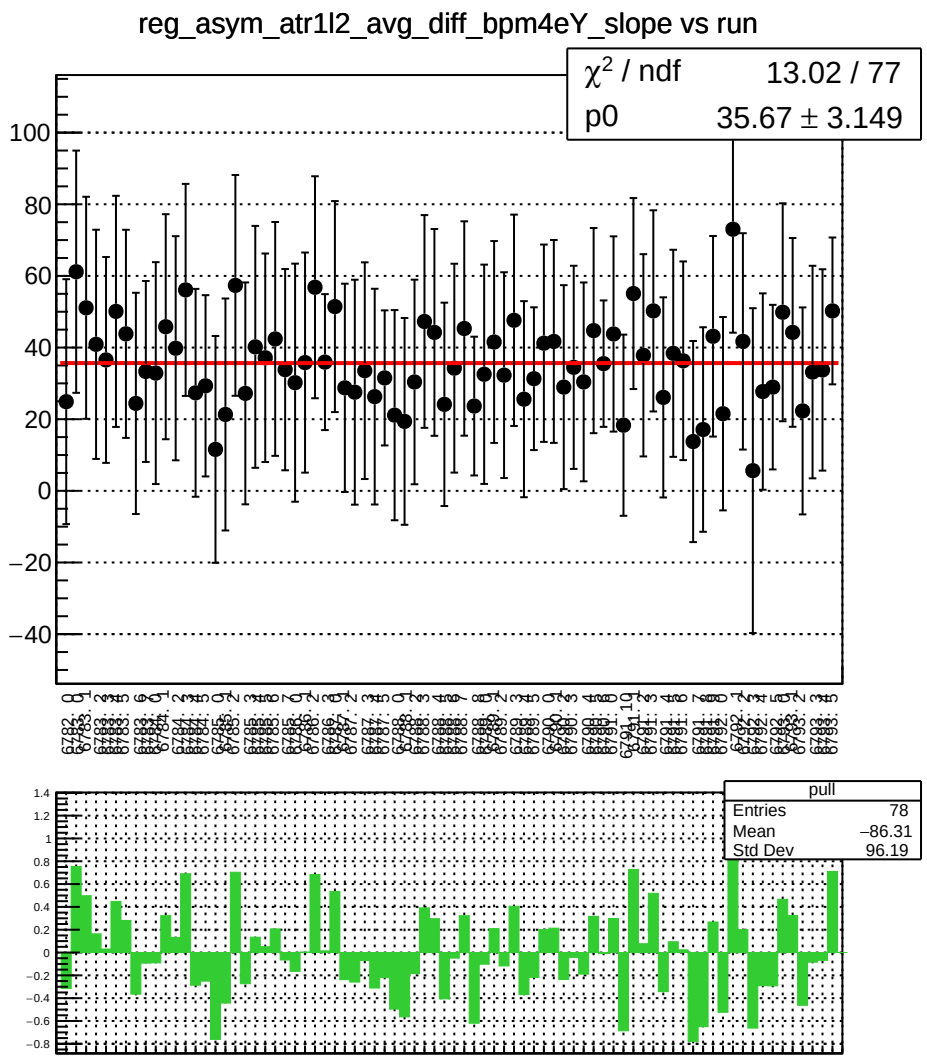

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 20.65 / 77
p0 −310.1 ± 4.819
−200
−250
−300
−350
−400
pull
Entries 78
Mean −19.31
Std Dev 25.96
1
0.5
0
−0.5
−1

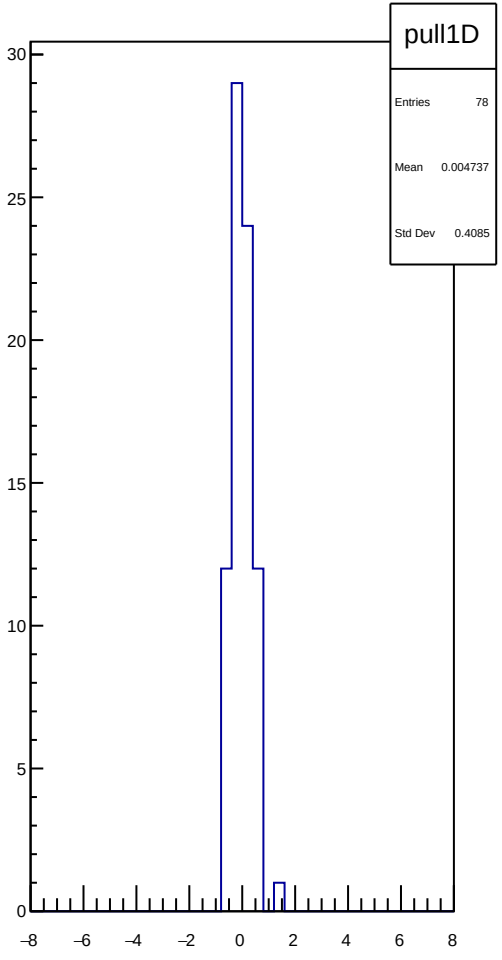

pull1D
Entries 78
Mean −0.0143
Std Dev 0.5144
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

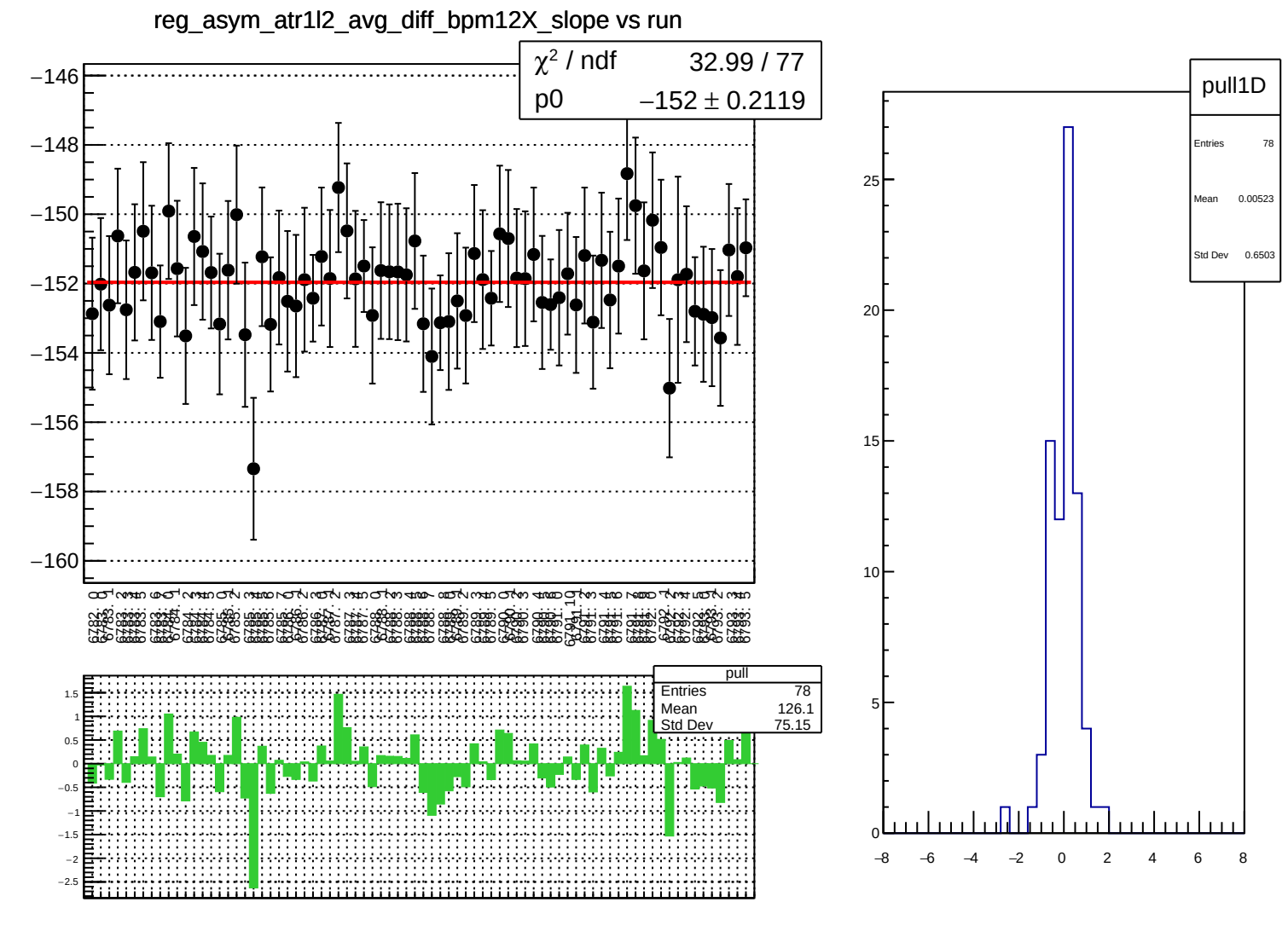

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.25 / 77
p0 23.24 ± 2.284
pull
Entries 78
Mean −42.91
Std Dev 25.16
pull1D
Entries 78
Mean −0.004545
Std Dev 0.4121

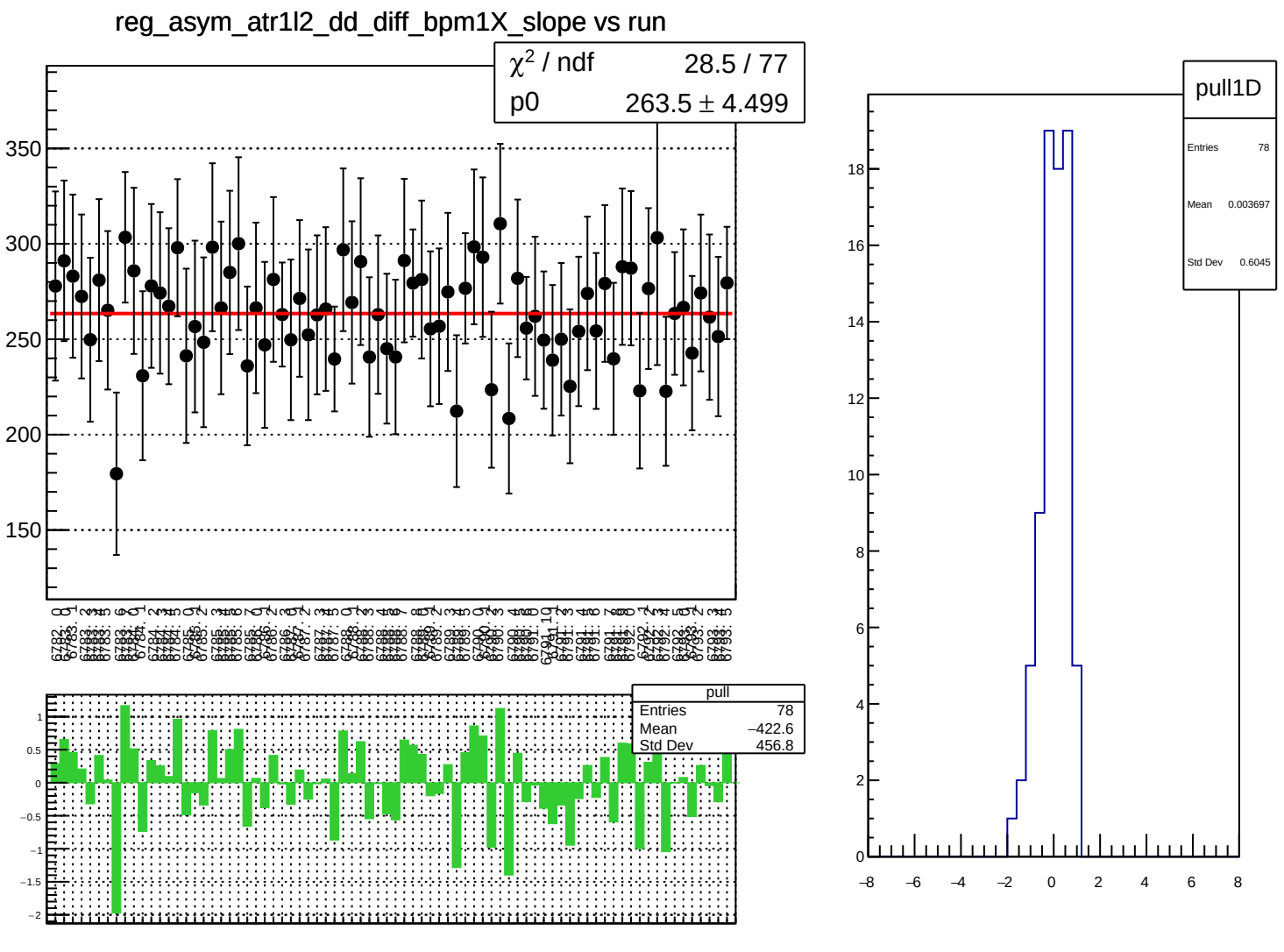

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.91 / 77
p0 228.5 ± 4.499
pull
Entries 78
Mean −25.99
Std Dev 37.65

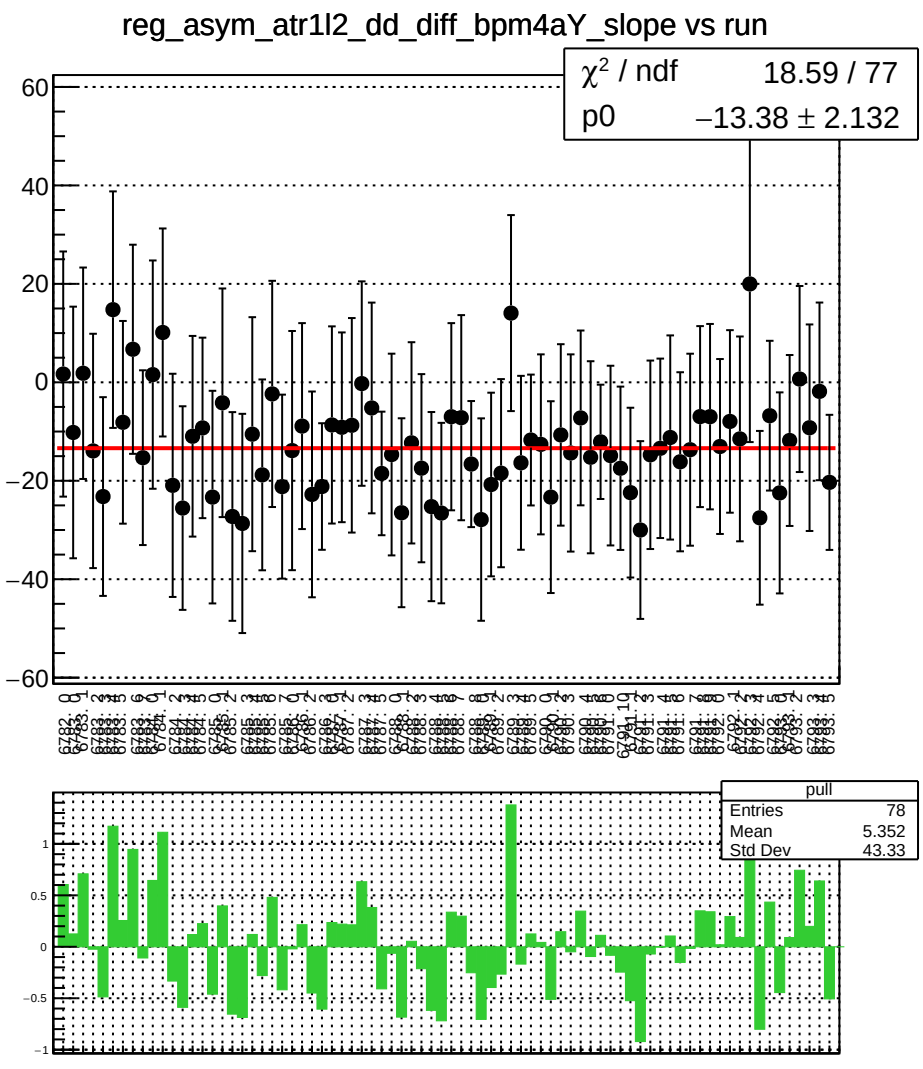

pull1D
Entries 78
Mean 0.01265
Std Dev 0.5176

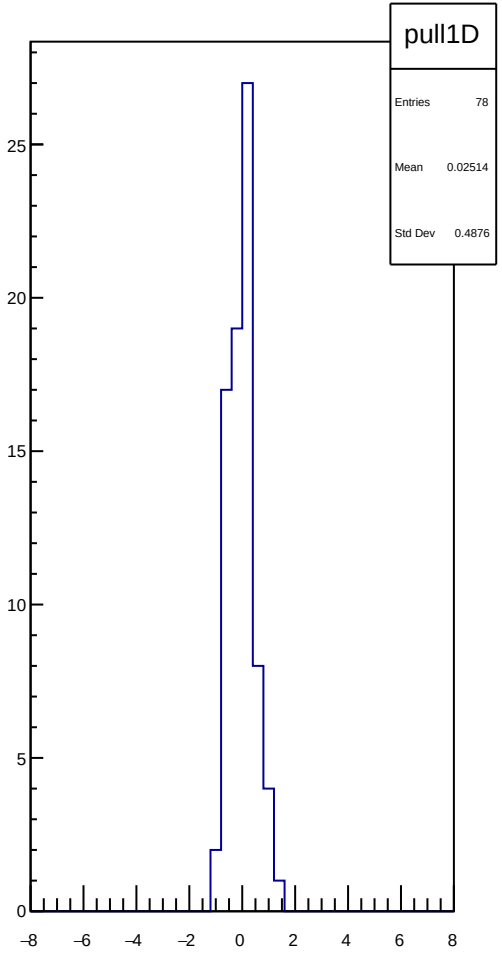

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.02 / 77
p0 35.67 ± 3.149
pull
Entries 78
Mean −86.31
Std Dev 96.19

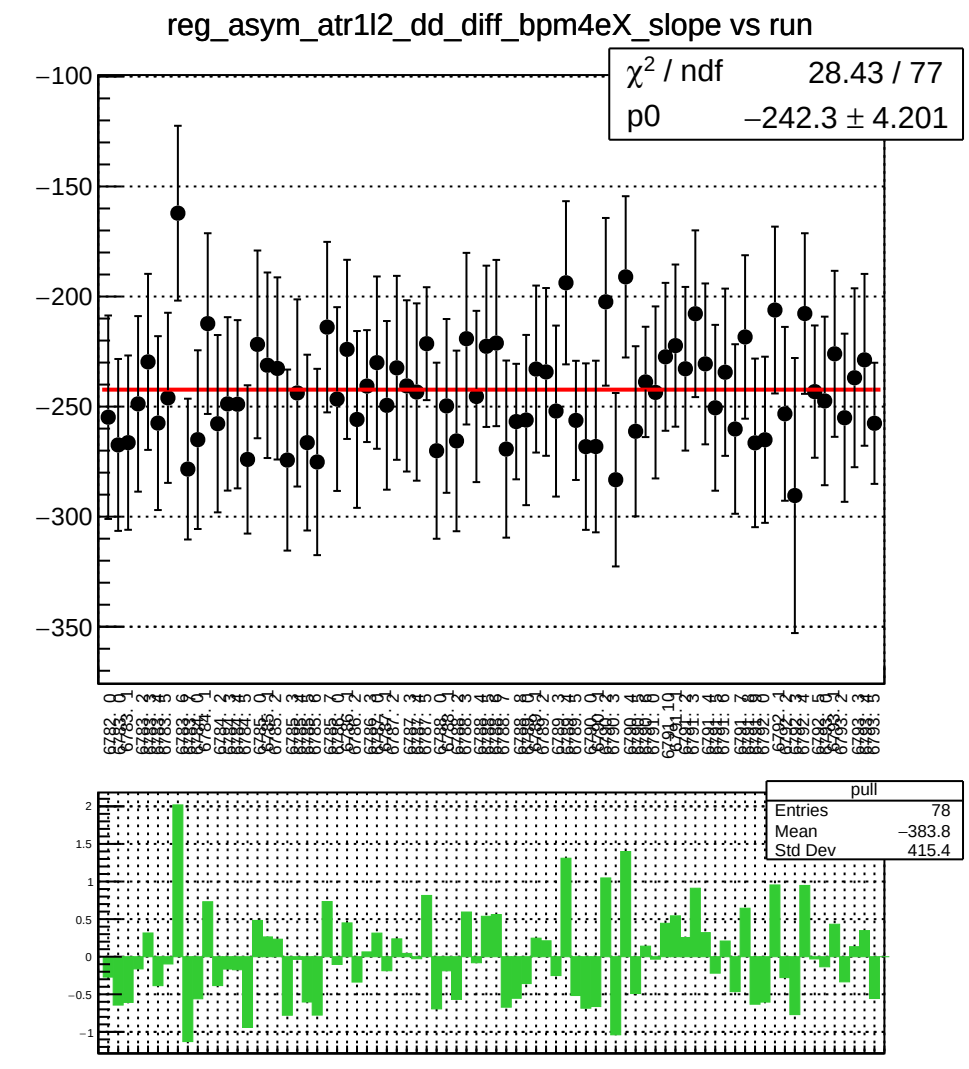

pull1D
Entries 78
Mean 0.004737
Std Dev 0.4085

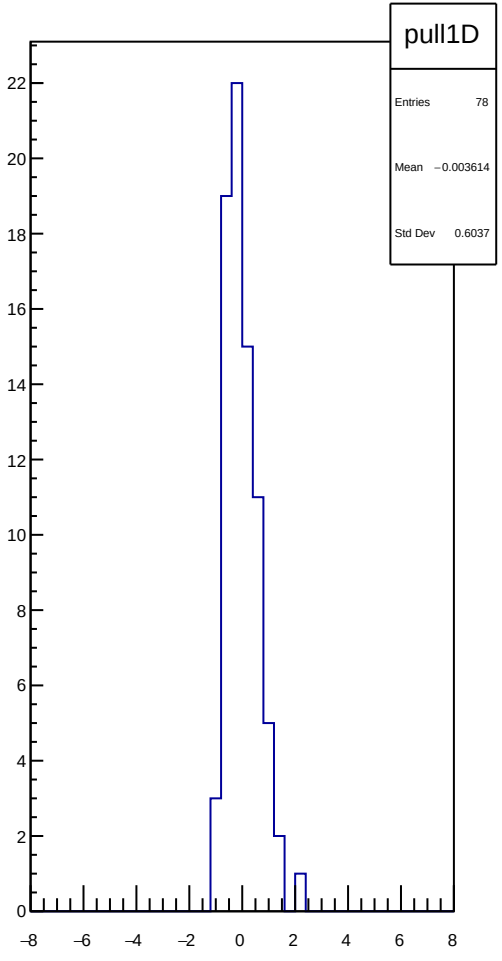

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 32.99 / 77
p0 −152 ± 0.2119
−146
−148
−150
−152
−154
−156
−158
−160
pull
Entries 78
Mean 126.1
Std Dev 75.15
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 78
Mean 0.00523
Std Dev 0.6503
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

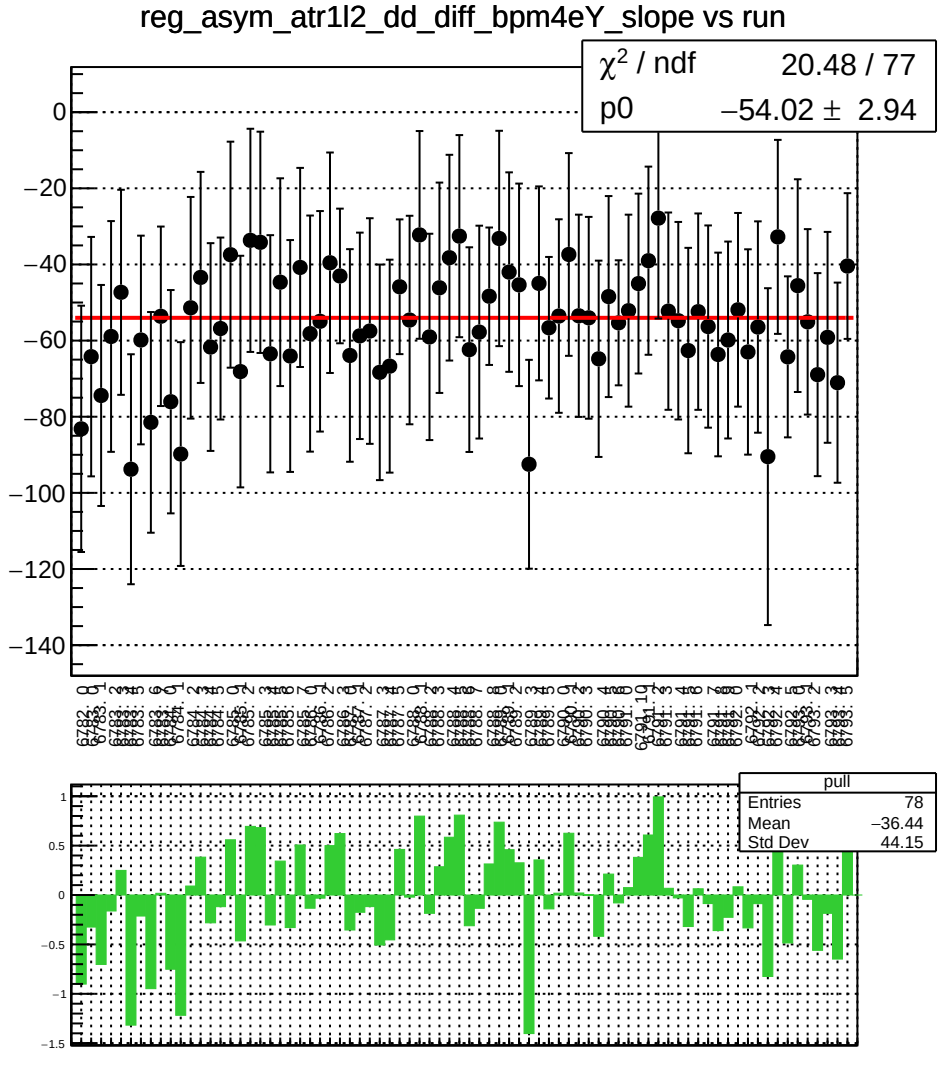

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 28.5 / 77
p0 263.5 ± 4.499
350
300
250
200
150
pull
Entries 78
Mean −422.6
Std Dev 456.8
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 78
Mean 0.003697
Std Dev 0.6045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

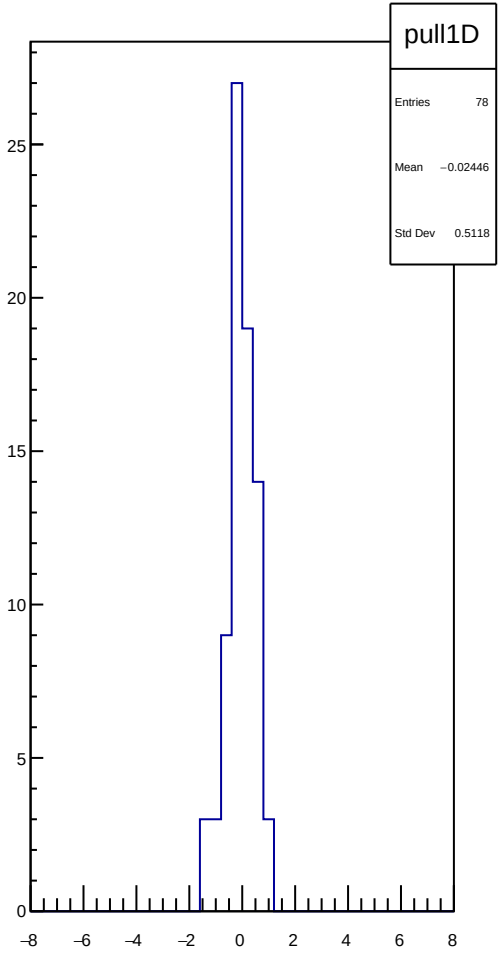

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.59 / 77
p0 −13.38 ± 2.132
pull
Entries 78
Mean 5.352
Std Dev 43.33

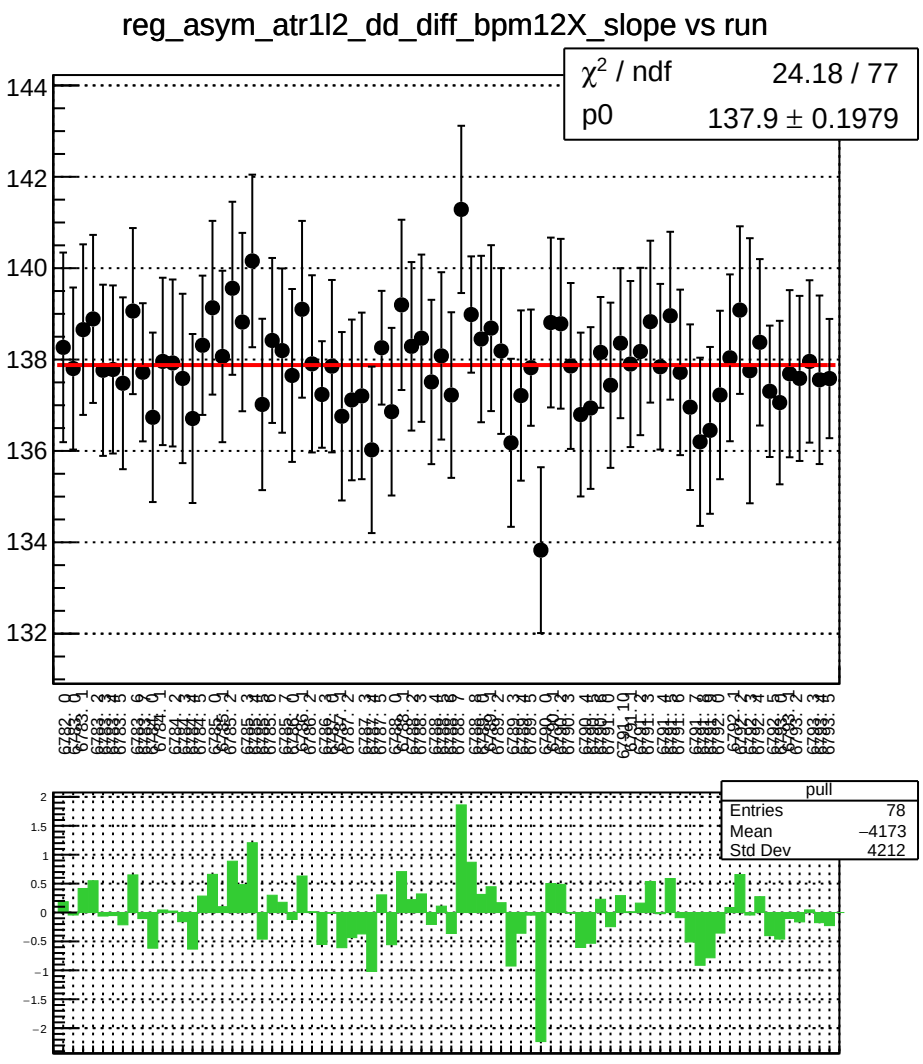

pull1D
Entries 78
Mean 0.02514
Std Dev 0.4876

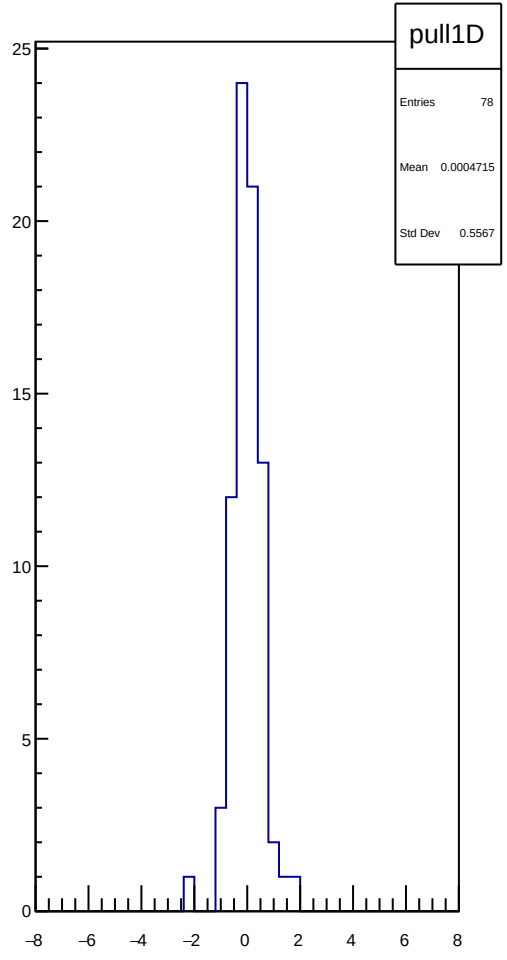

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.43 / 77
p0 −242.3 ± 4.201
pull
Entries 78
Mean −383.8
Std Dev 415.4

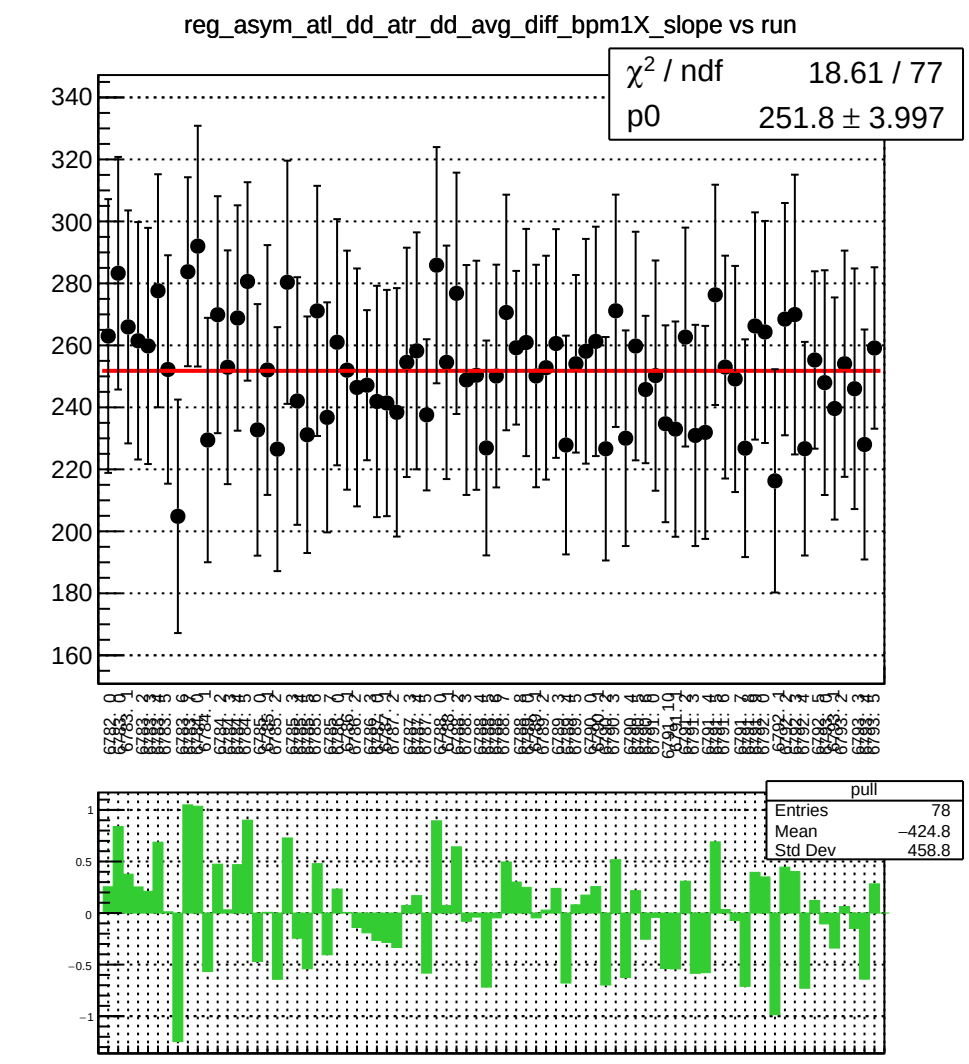

pull1D
Entries 78
Mean −0.003614
Std Dev 0.6037

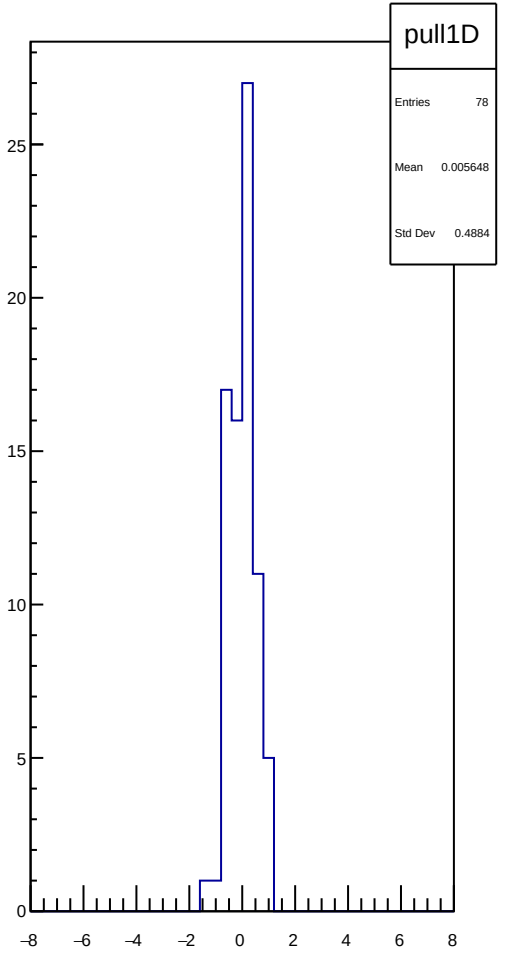

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.48 / 77
p0 −54.02 ± 2.94
pull
Entries 78
Mean −36.44
Std Dev 44.15

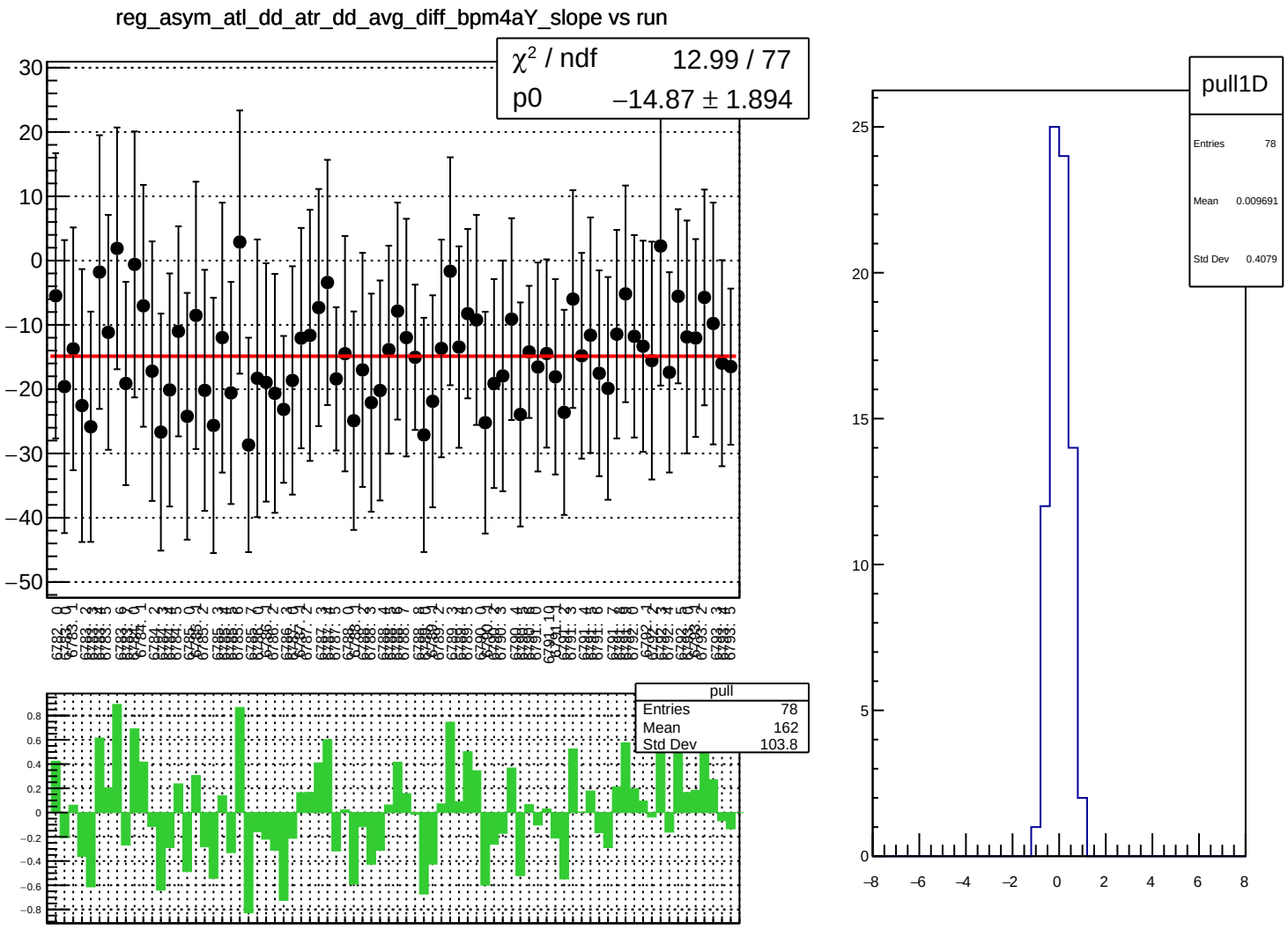

pull1D
Entries 78
Mean −0.02446
Std Dev 0.5118

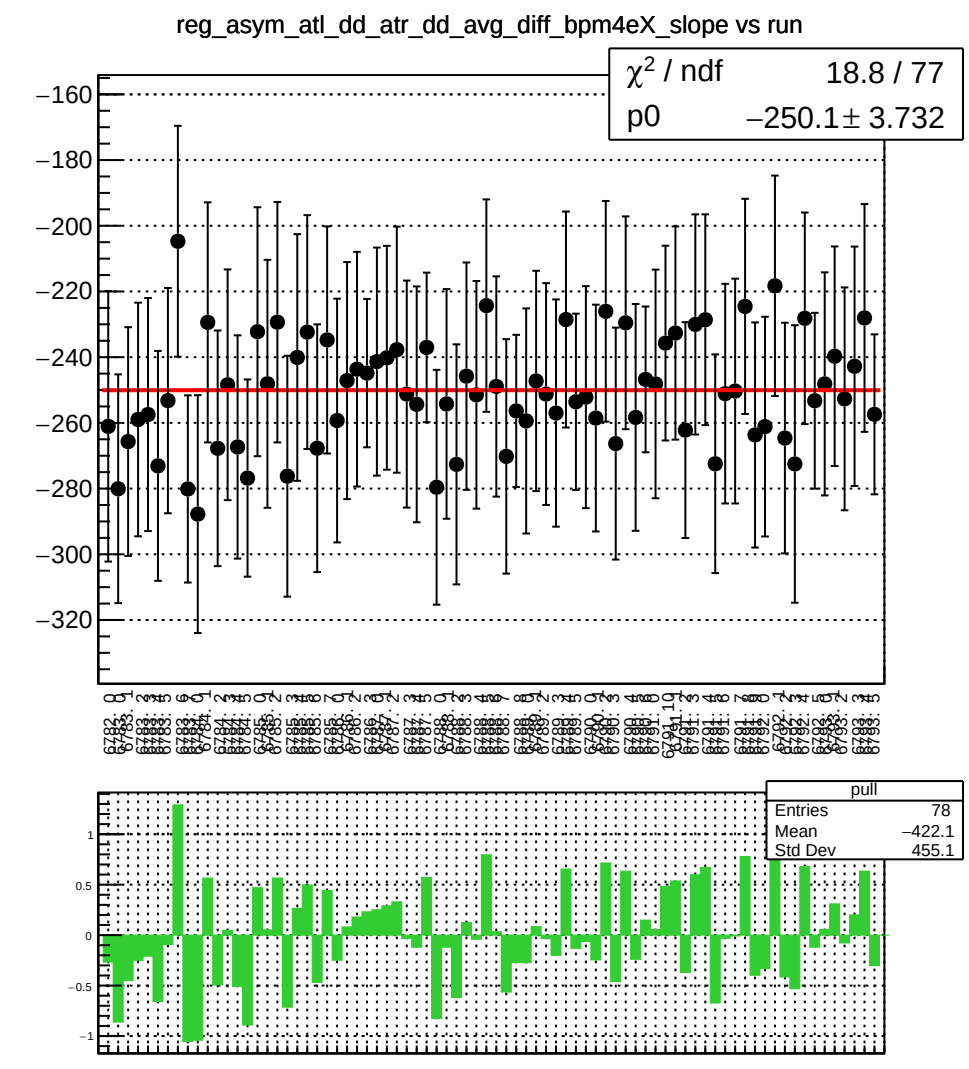

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 24.18 / 77
p0 137.9 ± 0.1979
144
142
140
138
136
134
132
pull
Entries 78
Mean −4173
Std Dev 4212
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

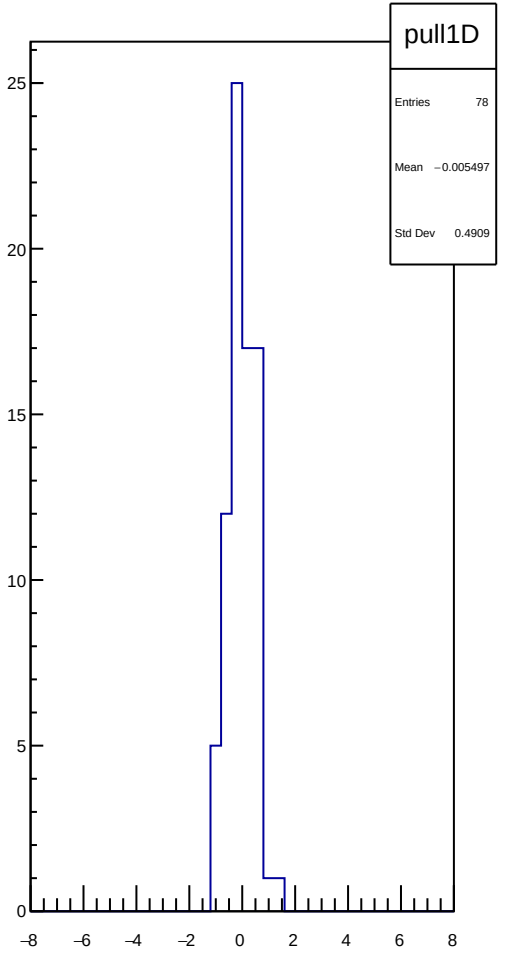

pull1D
Entries 78
Mean 0.0004715
Std Dev 0.5567
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

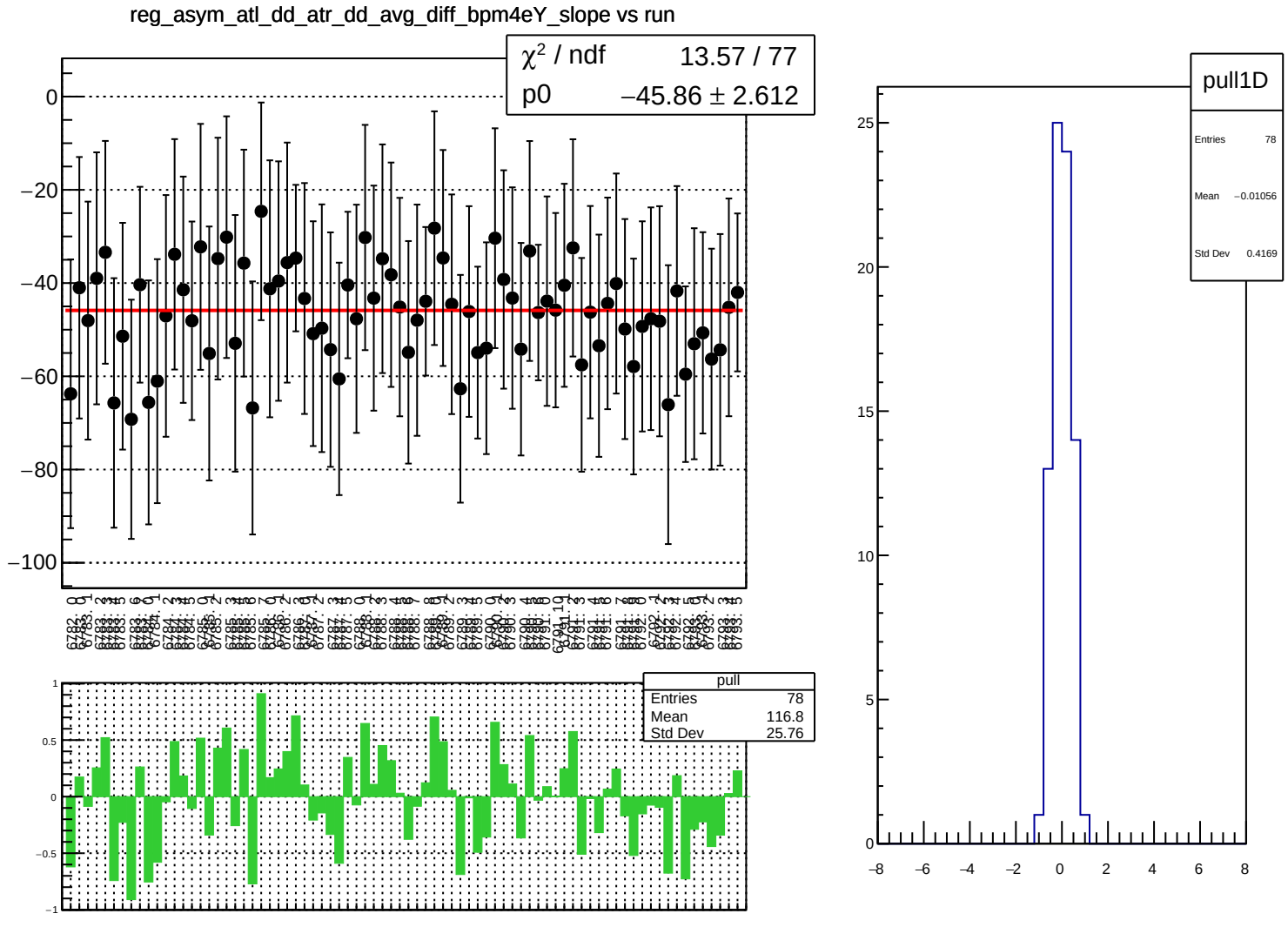

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 18.61 / 77
p0 251.8 ± 3.997
pull
Entries 78
Mean −424.8
Std Dev 458.8

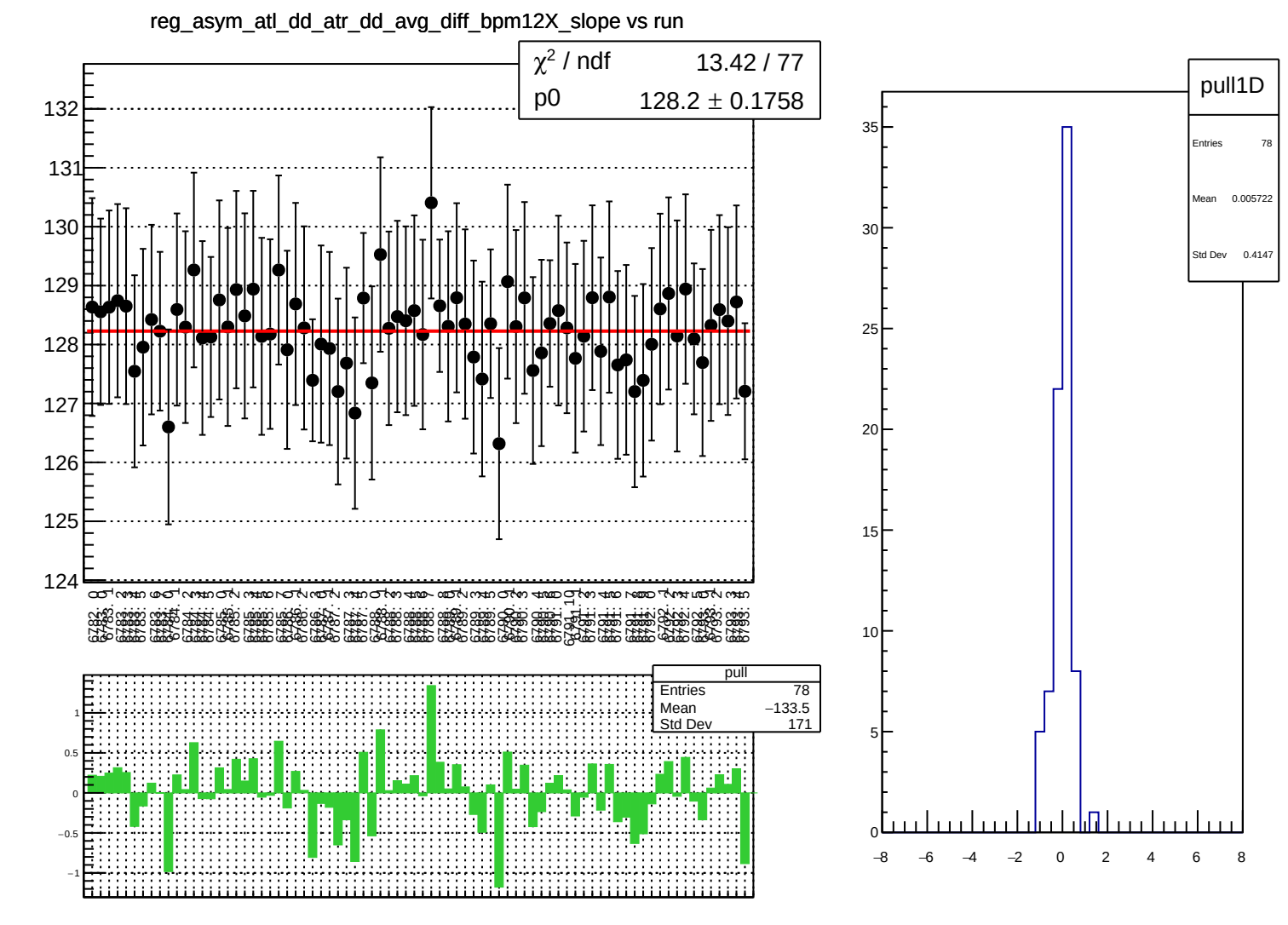

pull1D
Entries 78
Mean 0.005648
Std Dev 0.4884

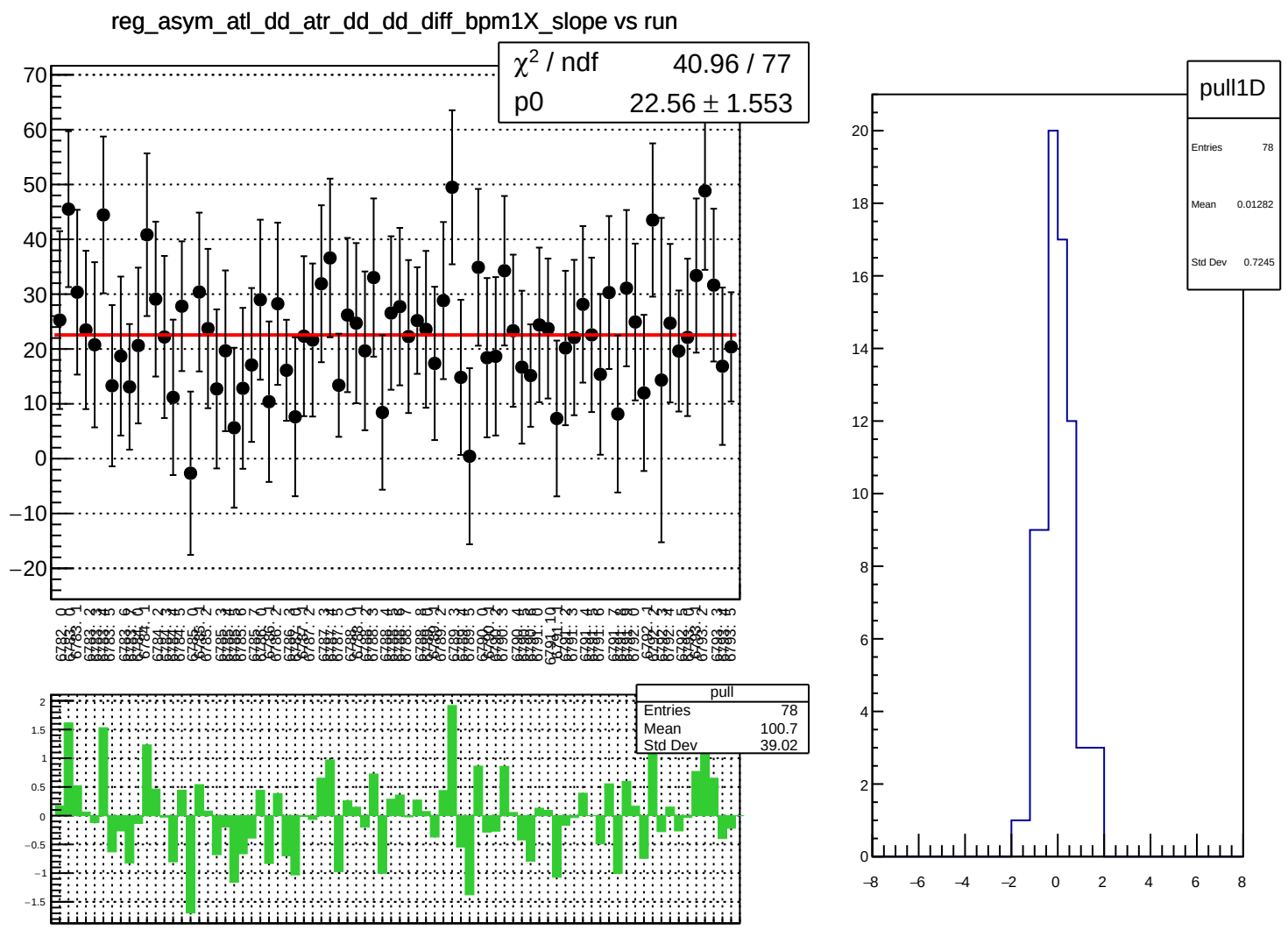

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.99 / 77
p0 −14.87 ± 1.894
pull
Entries 78
Mean 162
Std Dev 103.8
pull1D
Entries 78
Mean 0.009691
Std Dev 0.4079

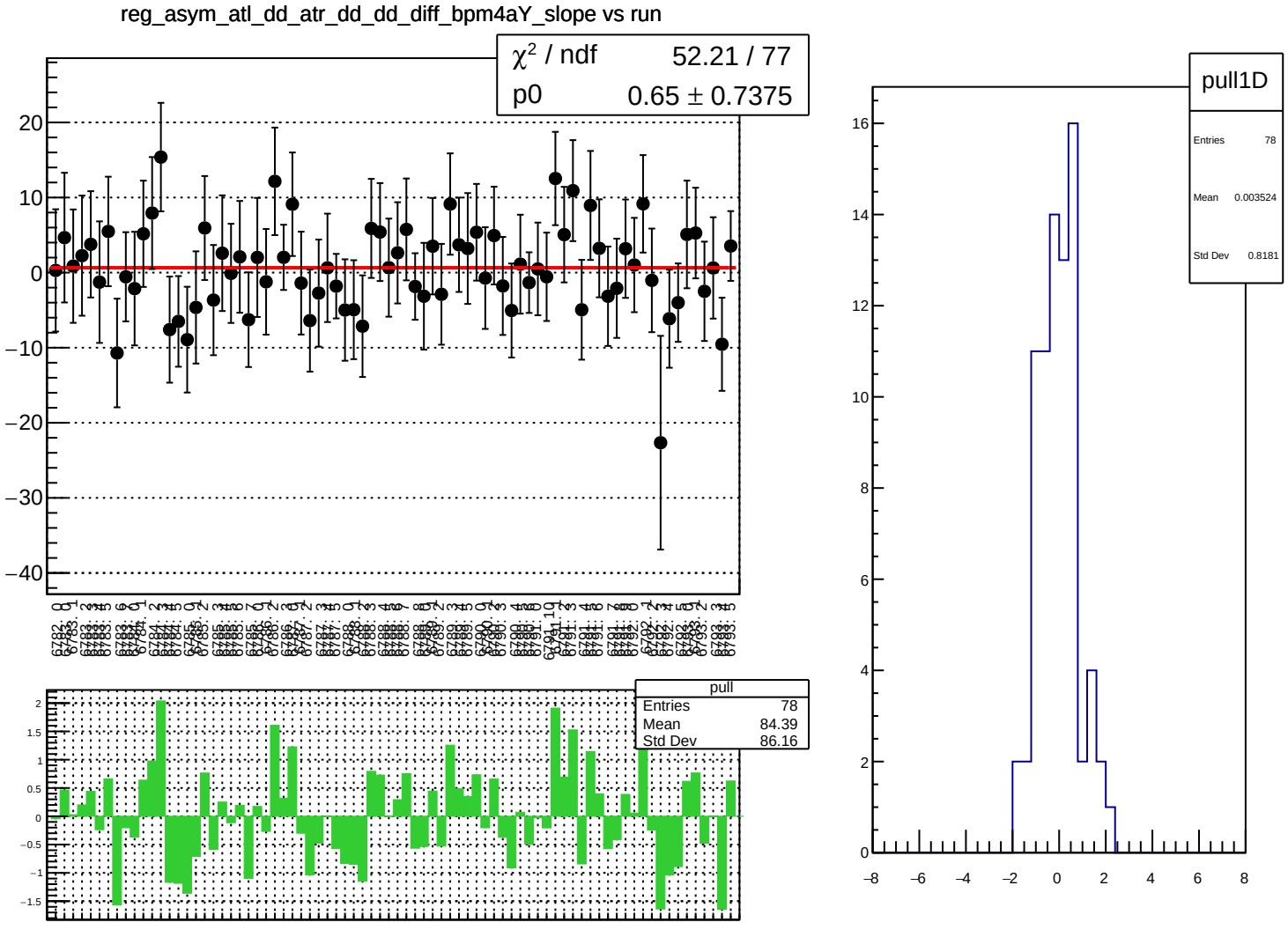

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.8 / 77
p0 −250.1± 3.732
pull
Entries 78
Mean −422.1
Std Dev 455.1

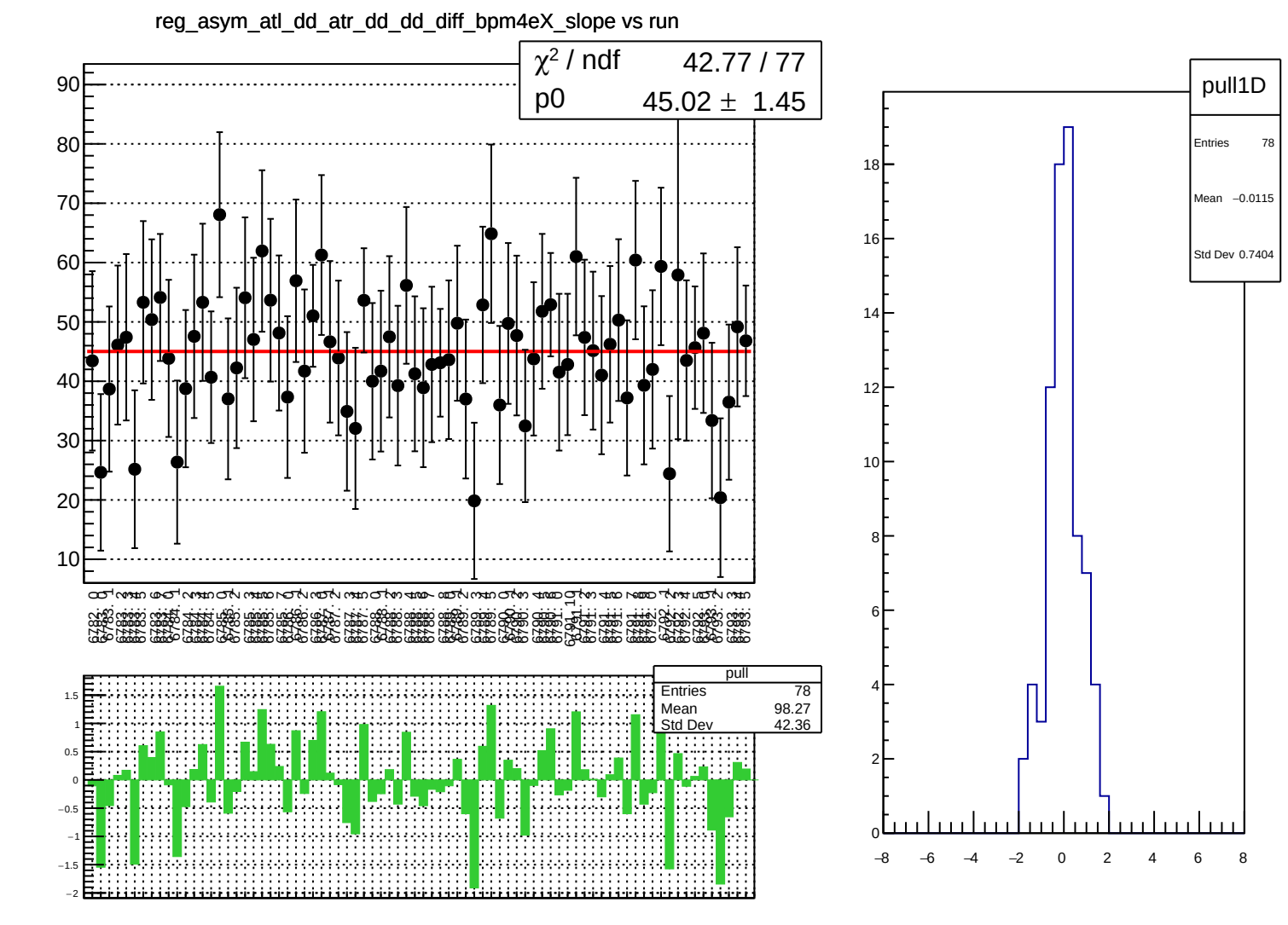

pull1D
Entries 78
Mean −0.005497
Std Dev 0.4909

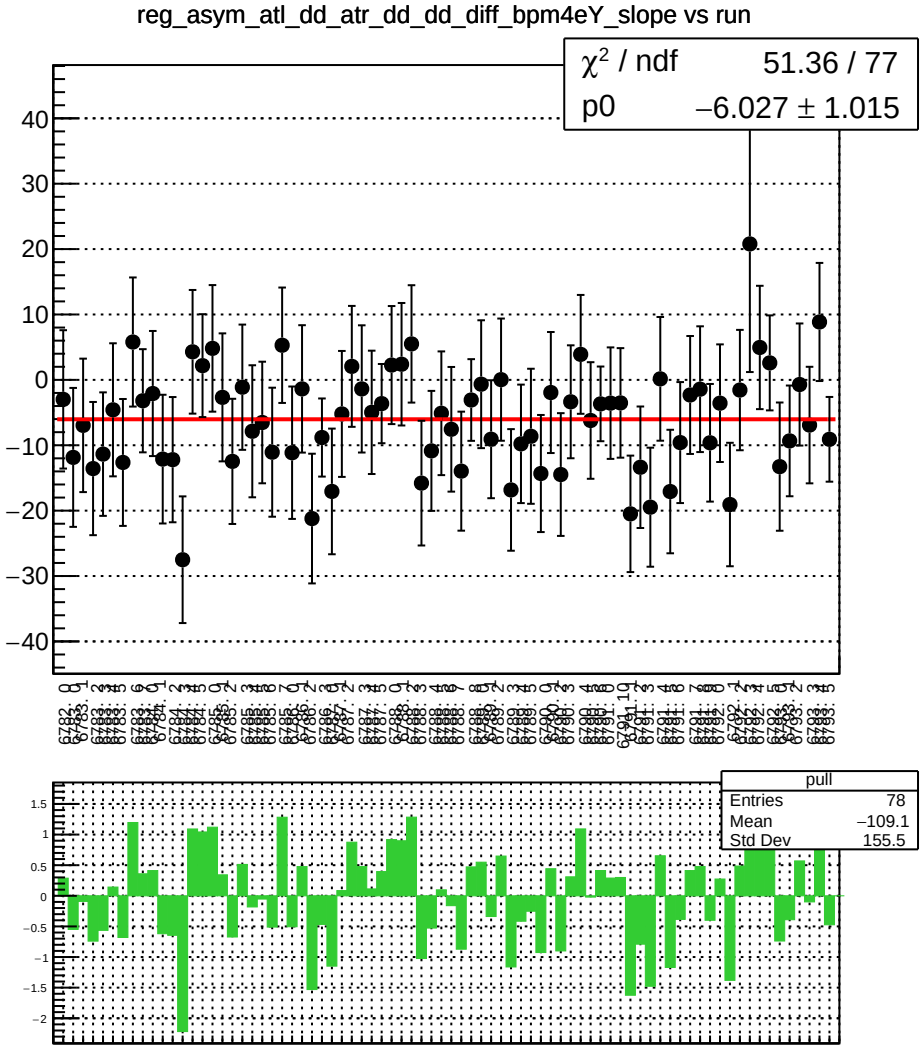

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.57 / 77
p0 −45.86 ± 2.612
pull
Entries 78
Mean 116.8
Std Dev 25.76
pull1D
Entries 78
Mean −0.01056
Std Dev 0.4169

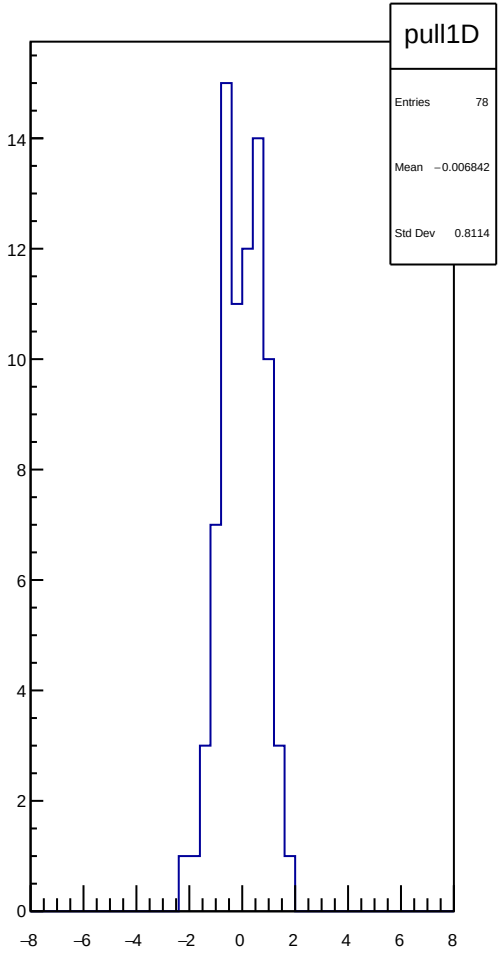

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 13.42 / 77
p0 128.2 ± 0.1758
pull
Entries 78
Mean −133.5
Std Dev 171
pull1D
Entries 78
Mean 0.005722
Std Dev 0.4147

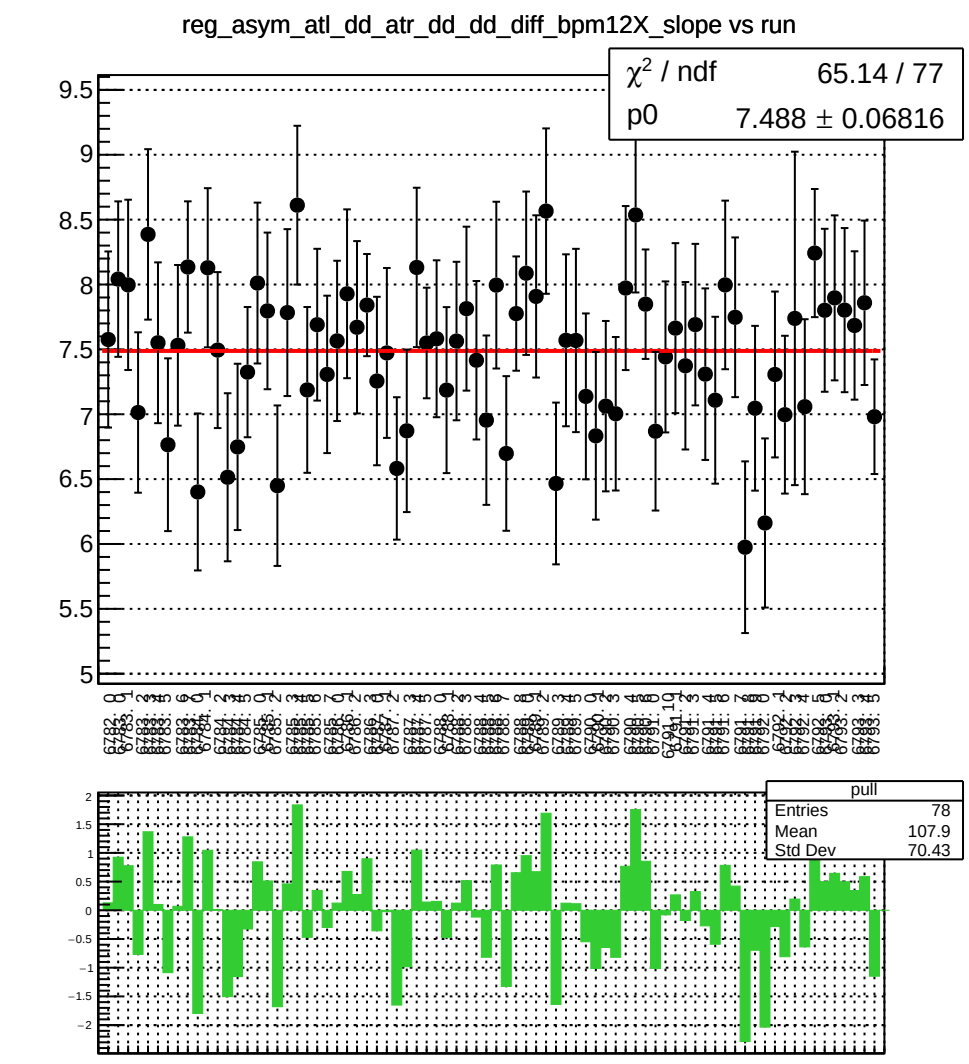

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 40.96 / 77
p0 22.56 ± 1.553
pull
Entries 78
Mean 100.7
Std Dev 39.02
pull1D
Entries 78
Mean 0.01282
Std Dev 0.7245

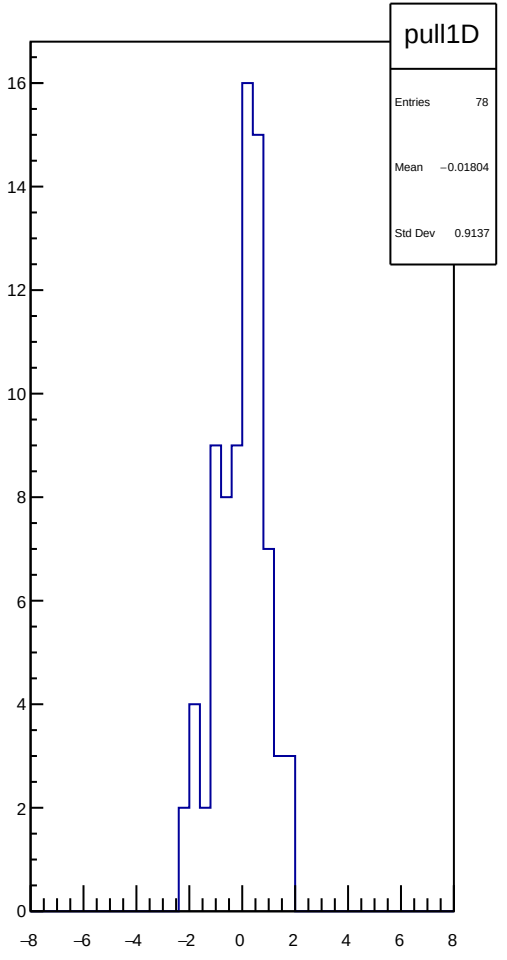

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.21 / 77
p0 0.65 ± 0.7375
pull
Entries 78
Mean 84.39
Std Dev 86.16
pull1D
Entries 78
Mean 0.003524
Std Dev 0.8181

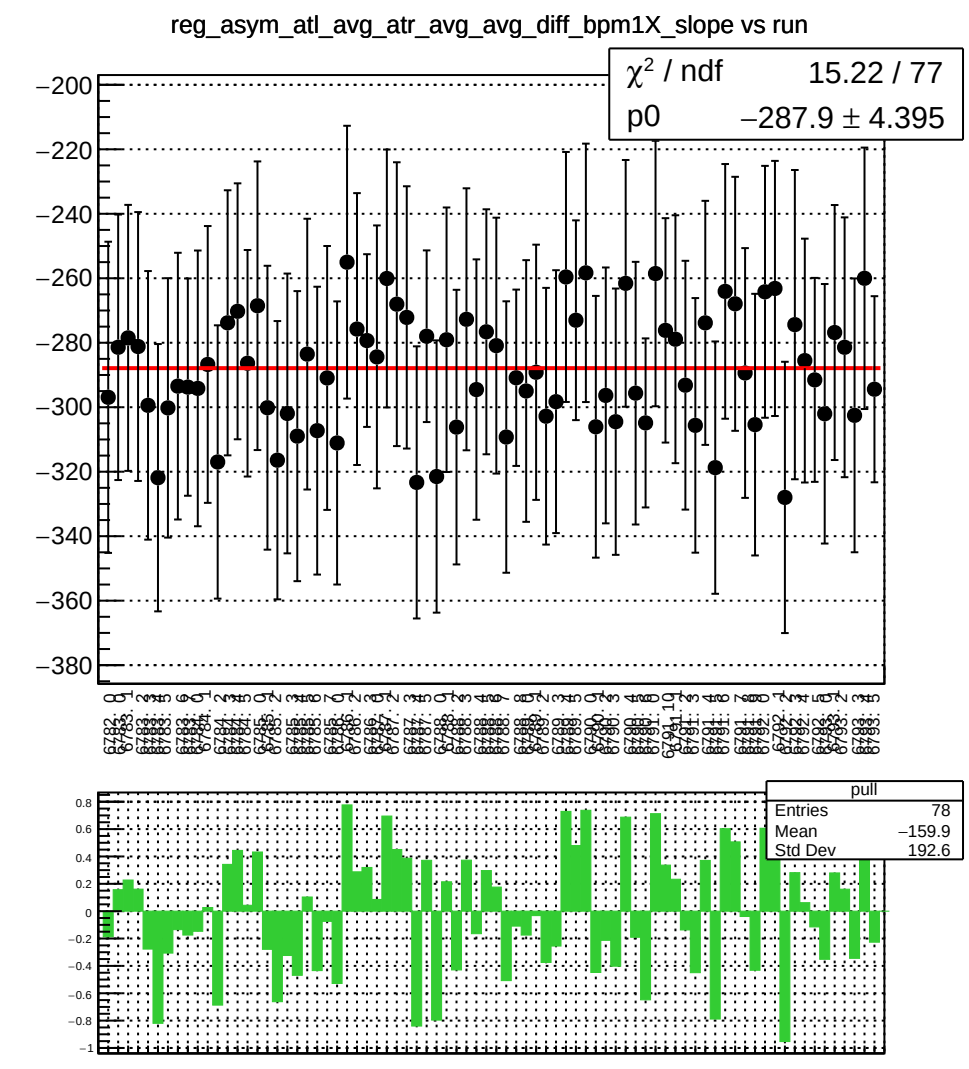

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.77 / 77
p0 45.02 ± 1.45
pull
Entries 78
Mean 98.27
Std Dev 42.36
pull1D
Entries 78
Mean −0.0115
Std Dev 0.7404

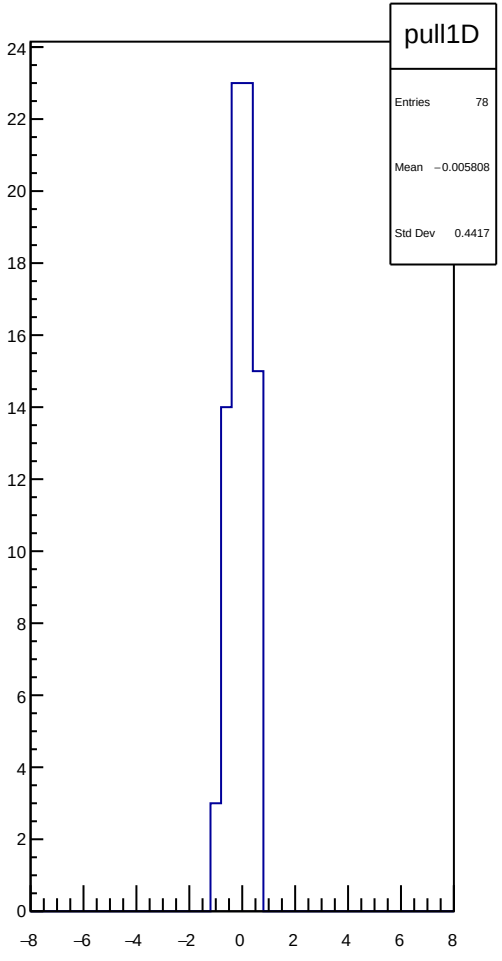

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.36 / 77
p0 −6.027 ± 1.015
pull
Entries 78
Mean −109.1
Std Dev 155.5

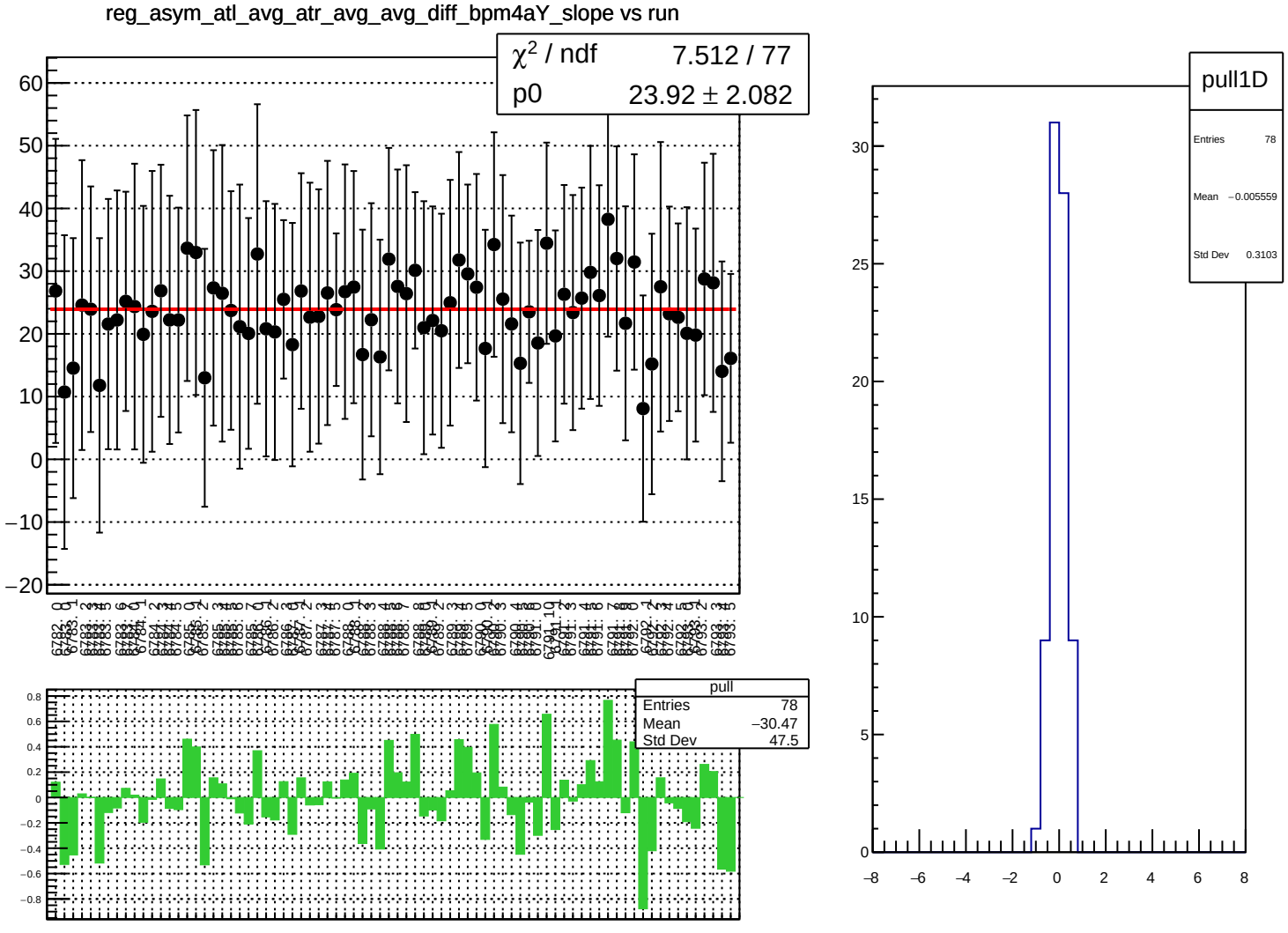

pull1D
Entries 78
Mean −0.006842
Std Dev 0.8114

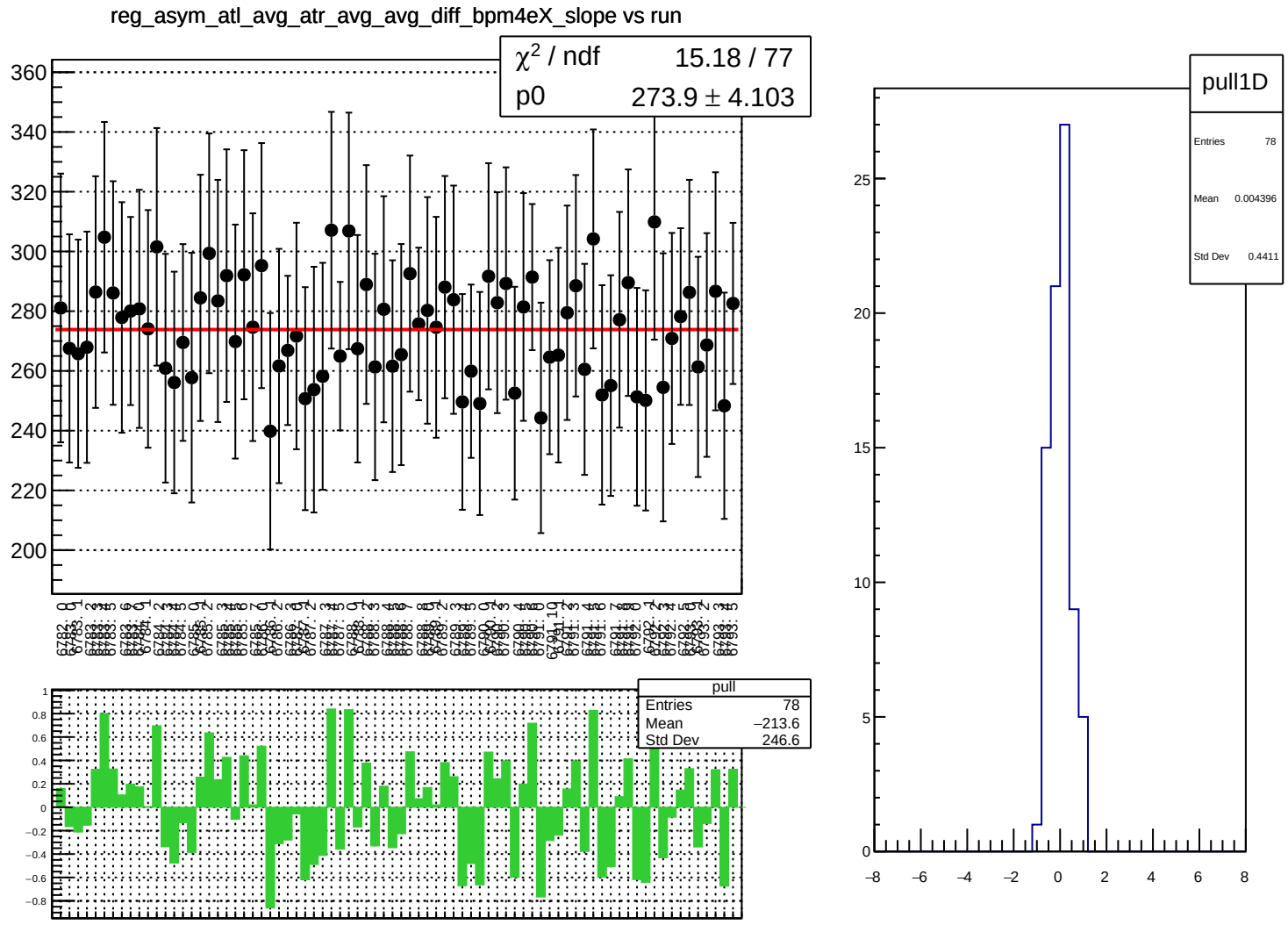

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 65.14 / 77
p0 7.488 ± 0.06816
pull
Entries 78
Mean 107.9
Std Dev 70.43

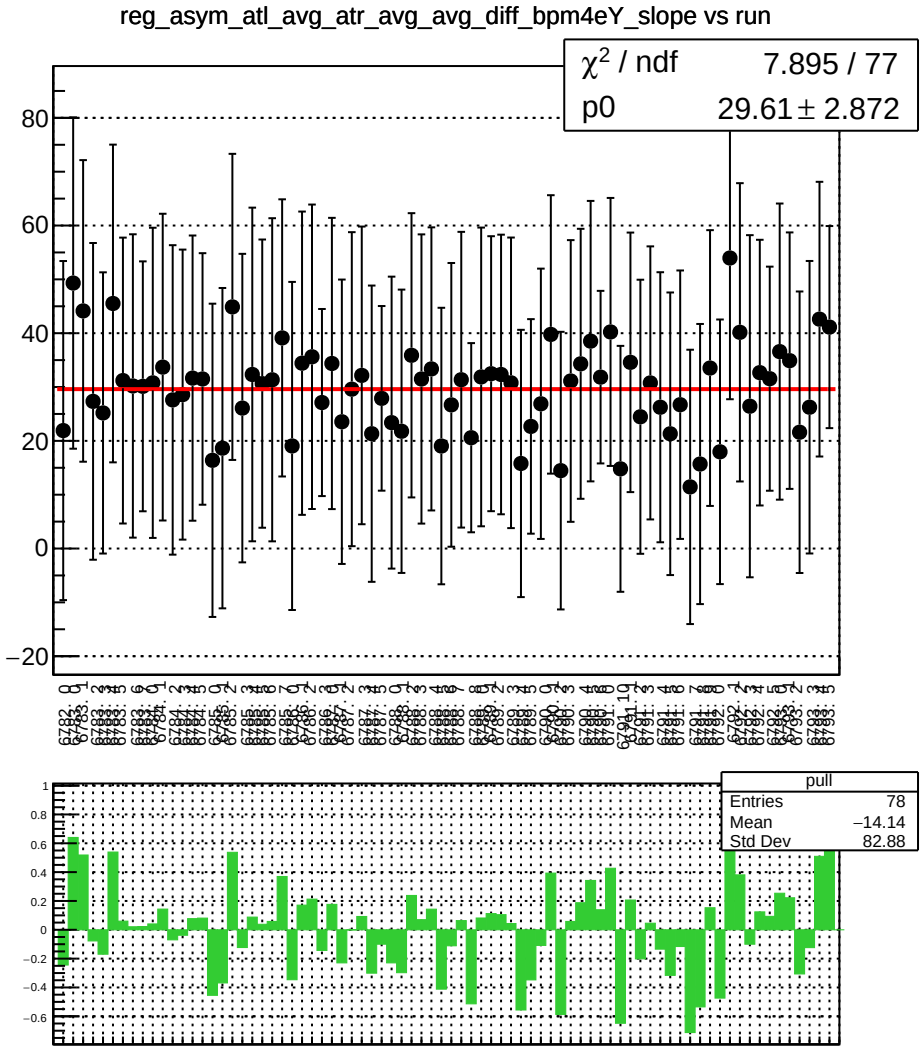

pull1D
Entries 78
Mean −0.01804
Std Dev 0.9137

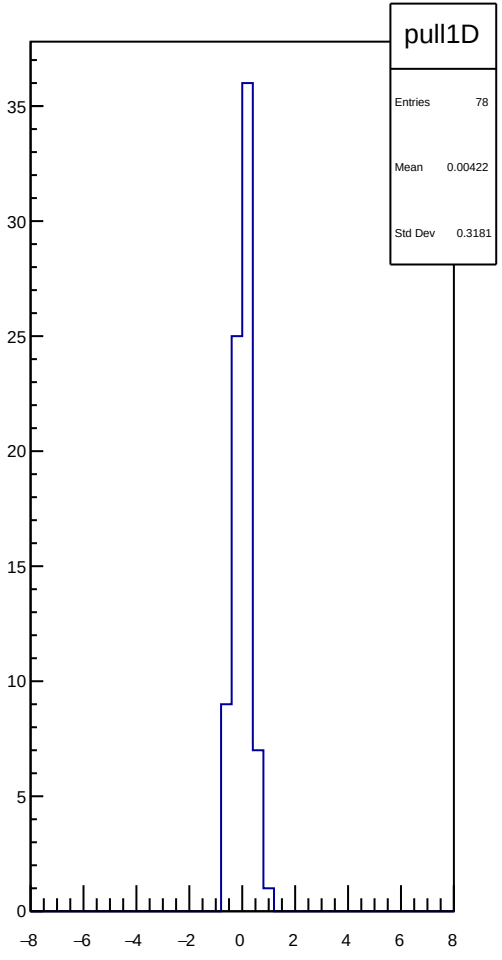

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 15.22 / 77
p0 −287.9 ± 4.395
pull
Entries 78
Mean −159.9
Std Dev 192.6

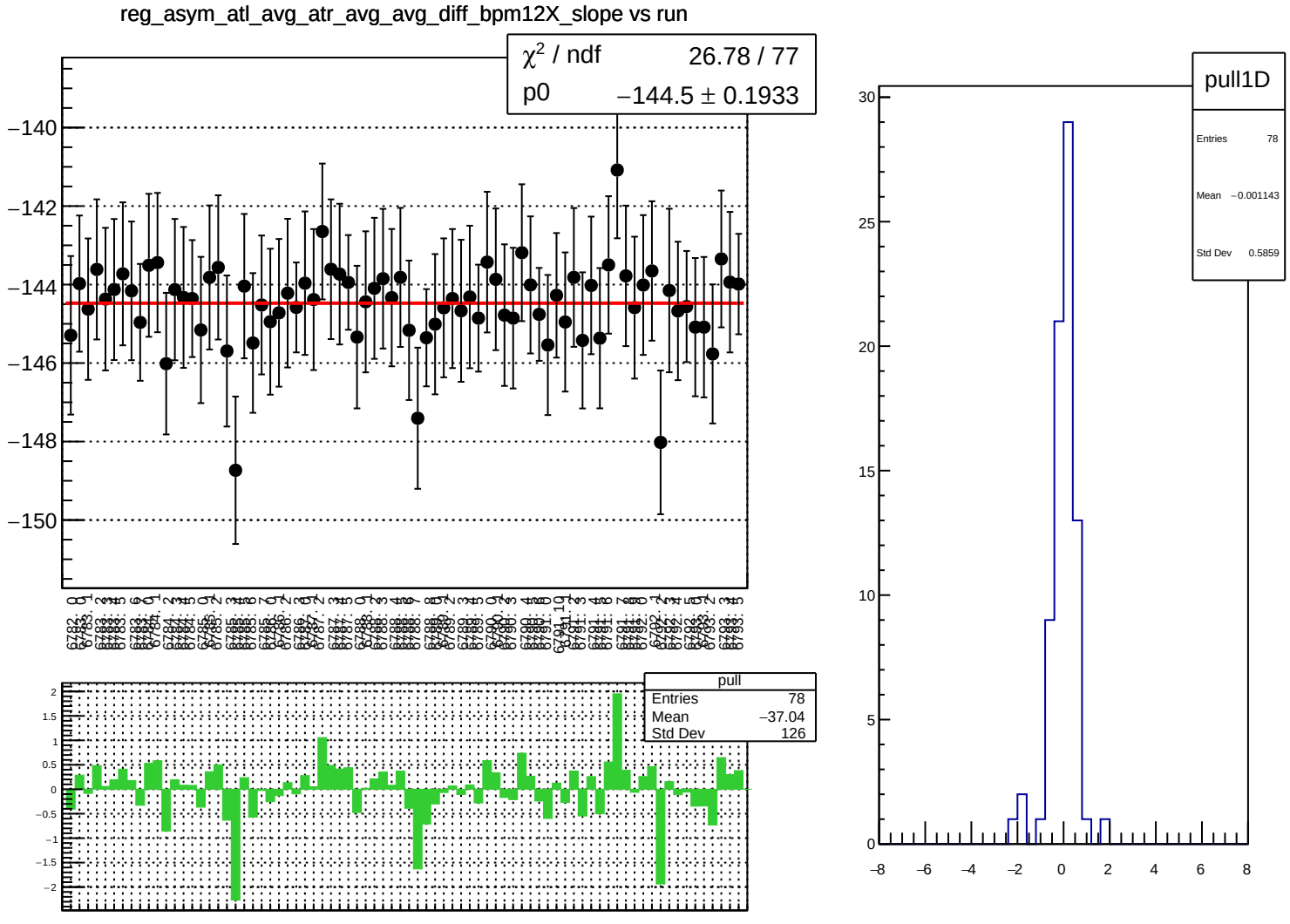

pull1D
Entries 78
Mean −0.005808
Std Dev 0.4417

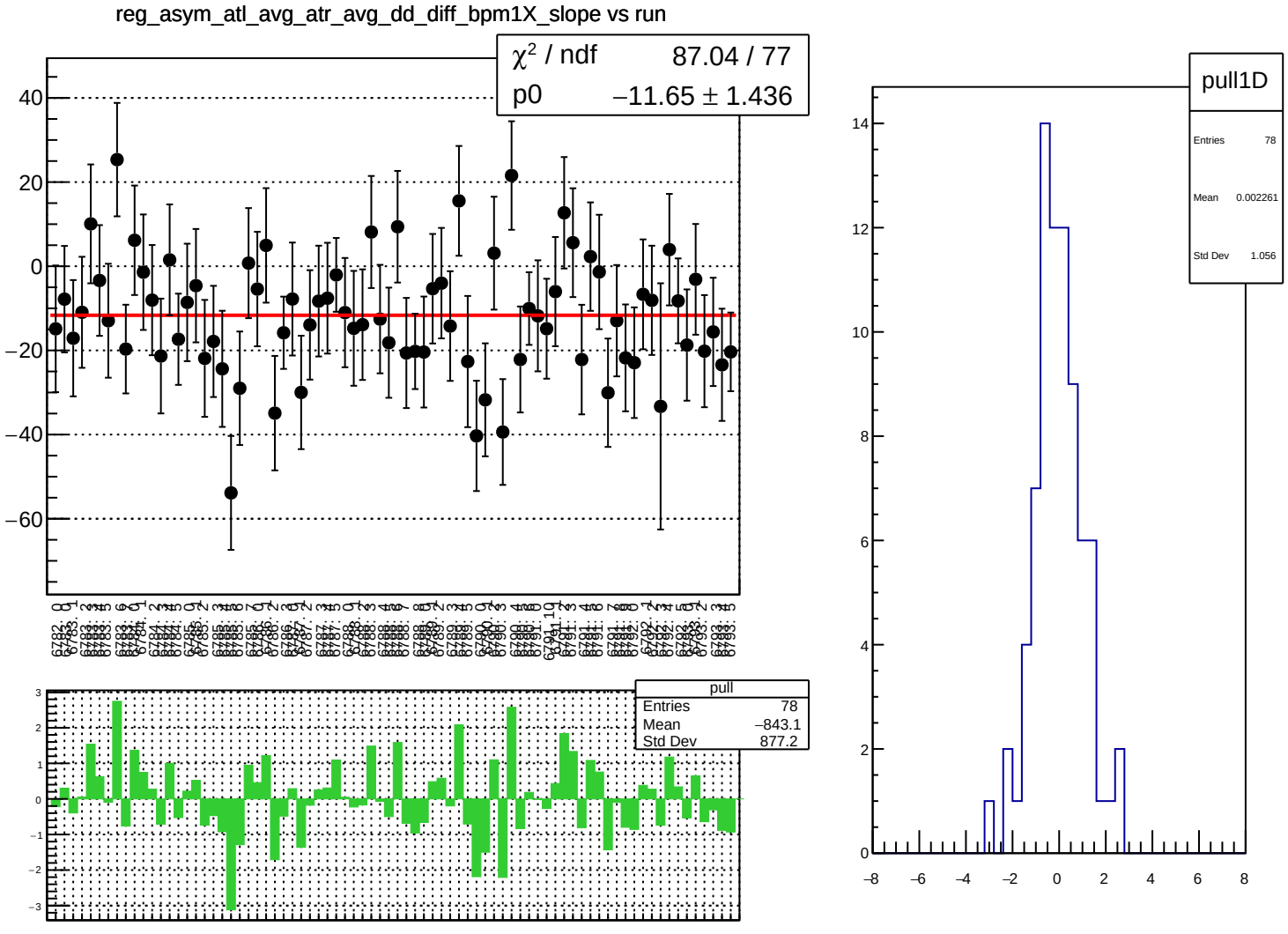

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.512 / 77
p0 23.92 ± 2.082
pull
Entries 78
Mean −30.47
Std Dev 47.5
pull1D
Entries 78
Mean −0.005559
Std Dev 0.3103

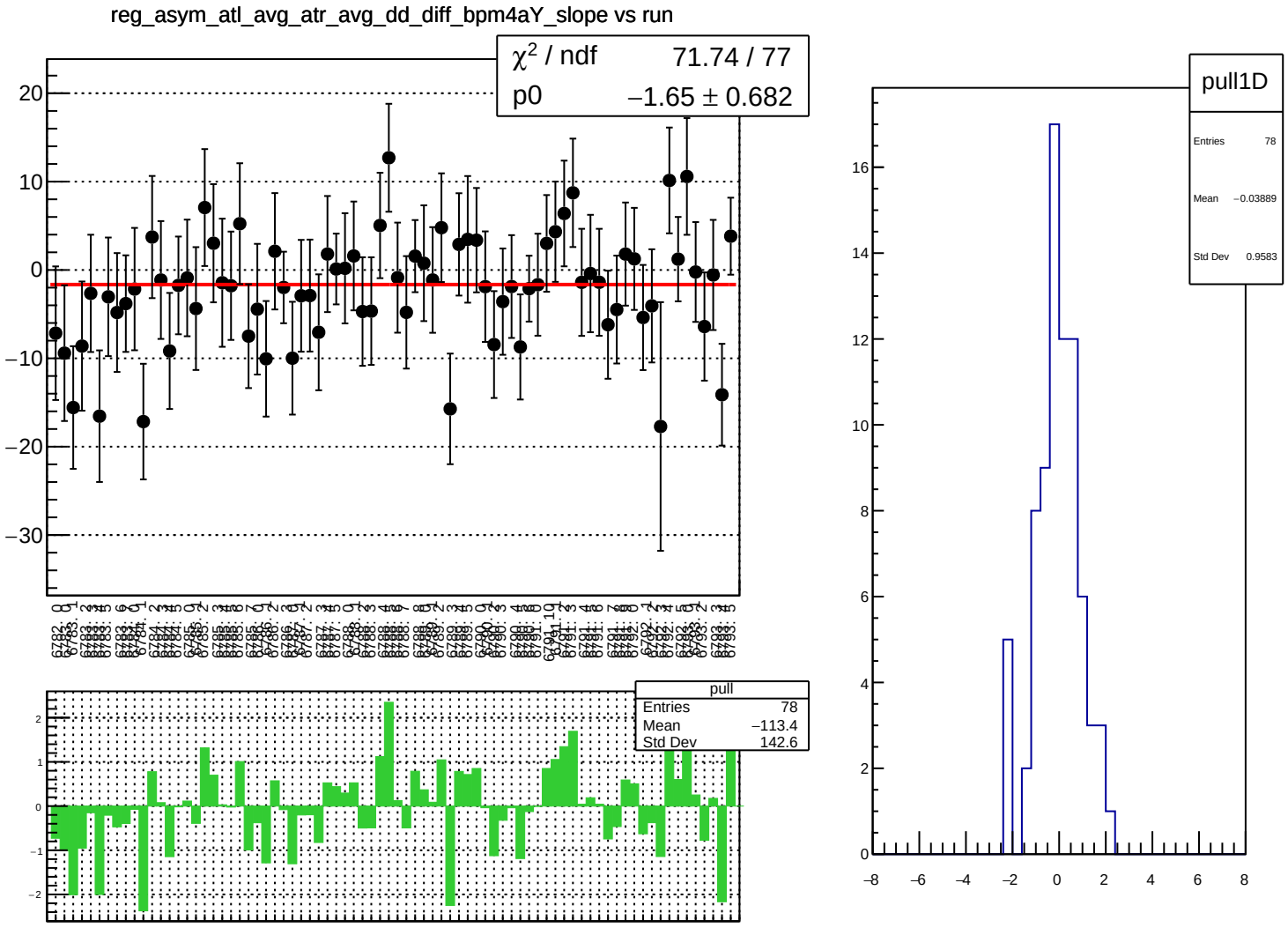

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.18 / 77
p0 273.9 ± 4.103
pull
Entries 78
Mean −213.6
Std Dev 246.6
pull1D
Entries 78
Mean 0.004396
Std Dev 0.4411

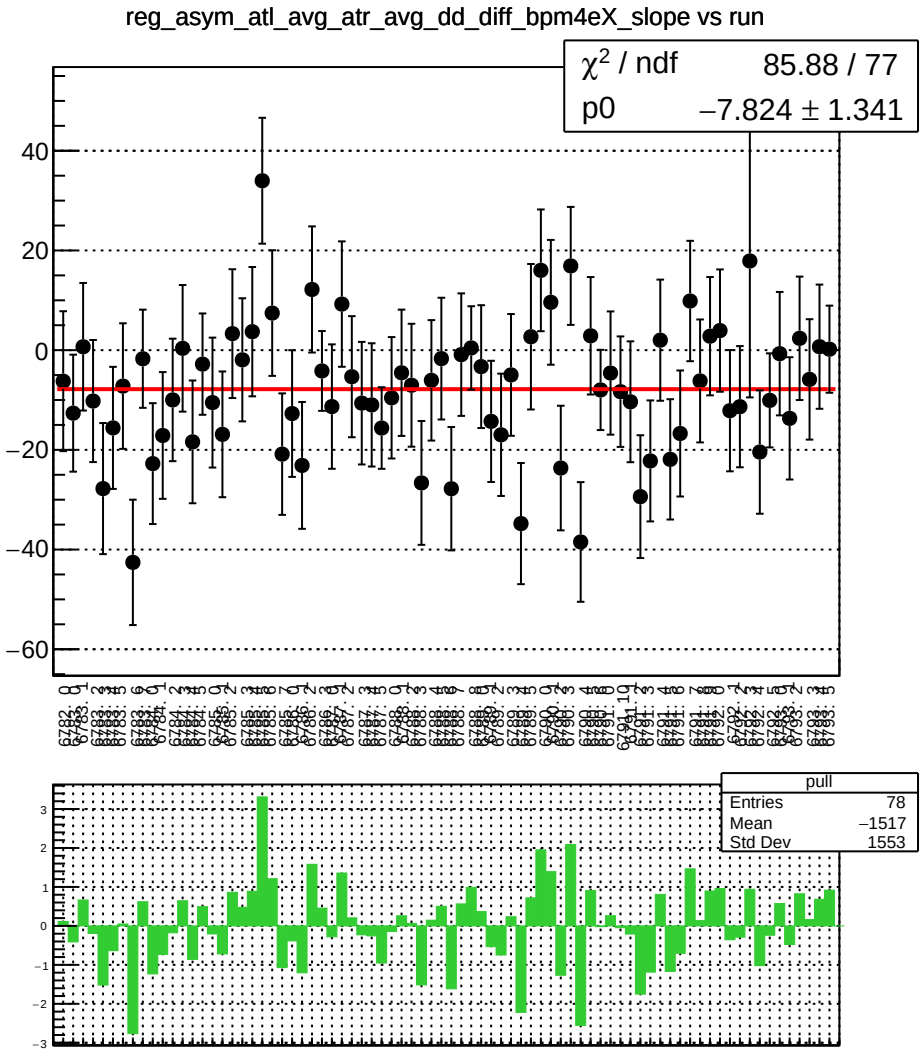

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.895 / 77
p0 29.61 ± 2.872
pull
Entries 78
Mean −14.14
Std Dev 82.88

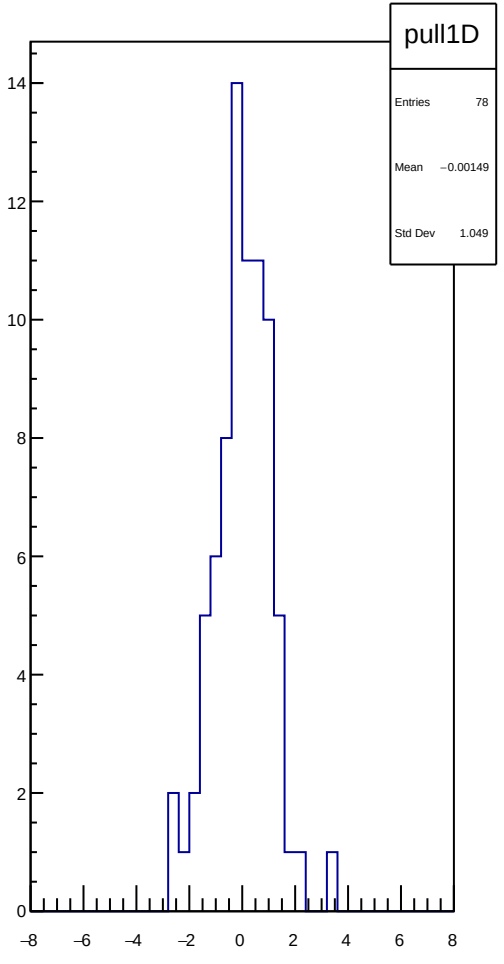

pull1D
Entries 78
Mean 0.00422
Std Dev 0.3181

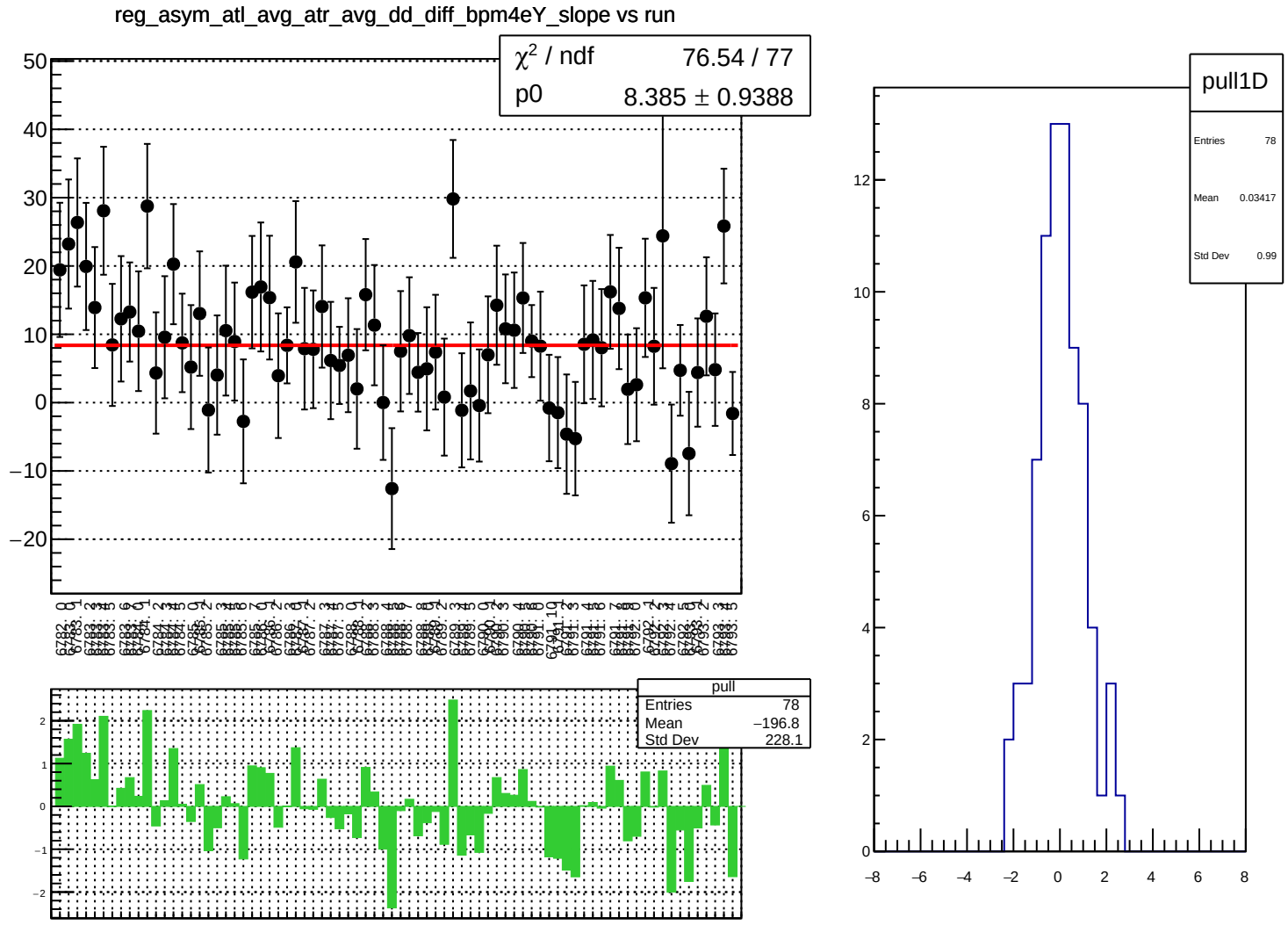

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 26.78 / 77
p0 −144.5 ± 0.1933
−140
−142
−144
−146
−148
−150
pull
Entries 78
Mean −37.04
Std Dev 126
pull1D
Entries 78
Mean −0.001143
Std Dev 0.5859

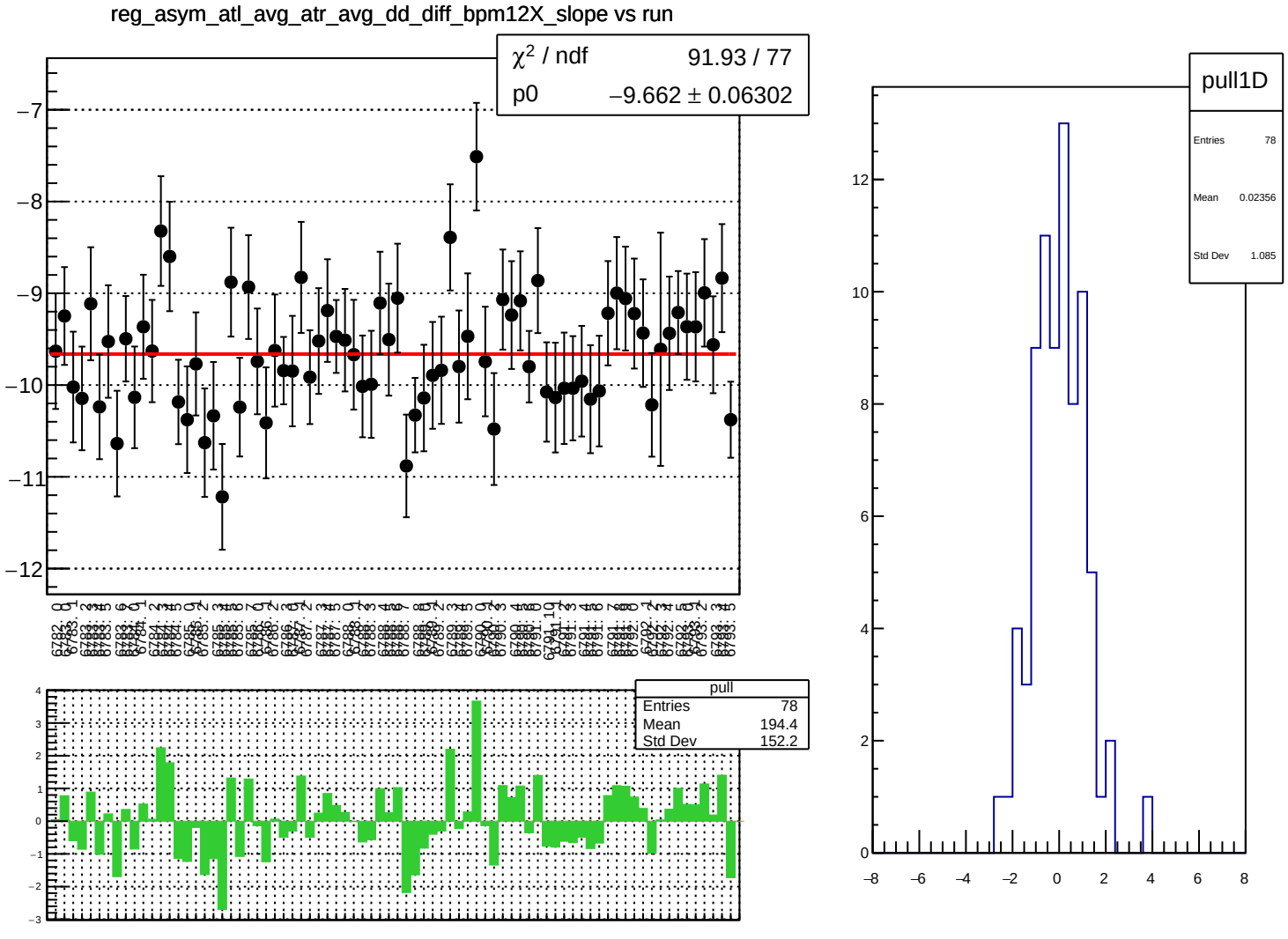

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 87.04 / 77
p0 −11.65 ± 1.436
pull
Entries 78
Mean −843.1
Std Dev 877.2
pull1D
Entries 78
Mean 0.002261
Std Dev 1.056

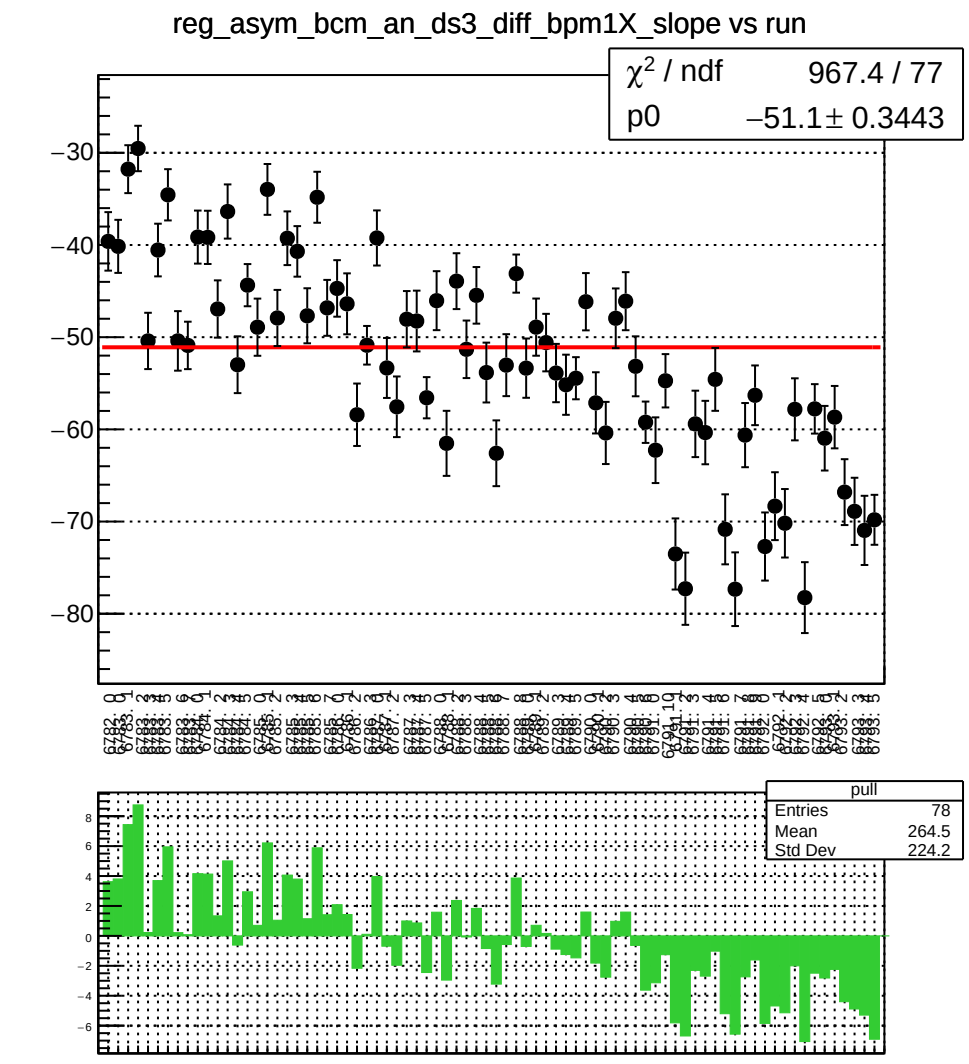

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.74 / 77
p0 −1.65 ± 0.682
pull
Entries 78
Mean −113.4
Std Dev 142.6
pull1D
Entries 78
Mean −0.03889
Std Dev 0.9583

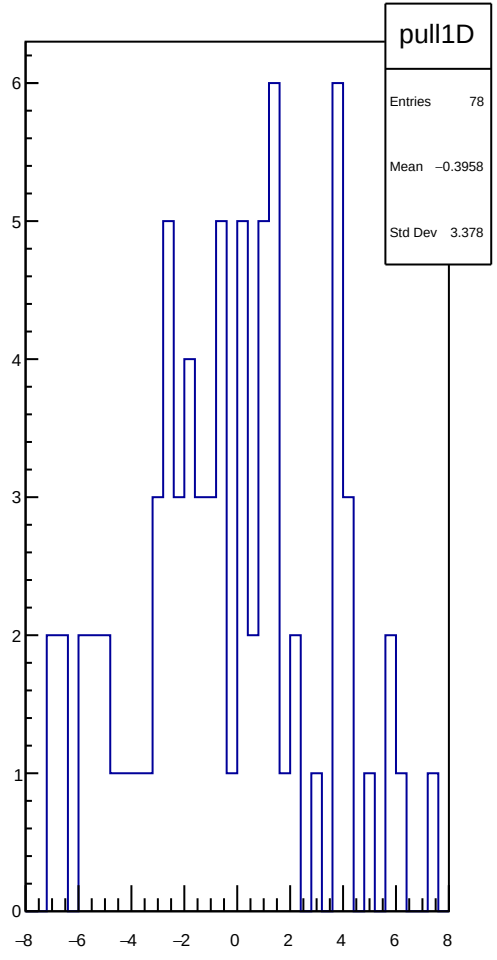

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.88 / 77
p0 −7.824 ± 1.341
pull
Entries 78
Mean −1517
Std Dev 1553

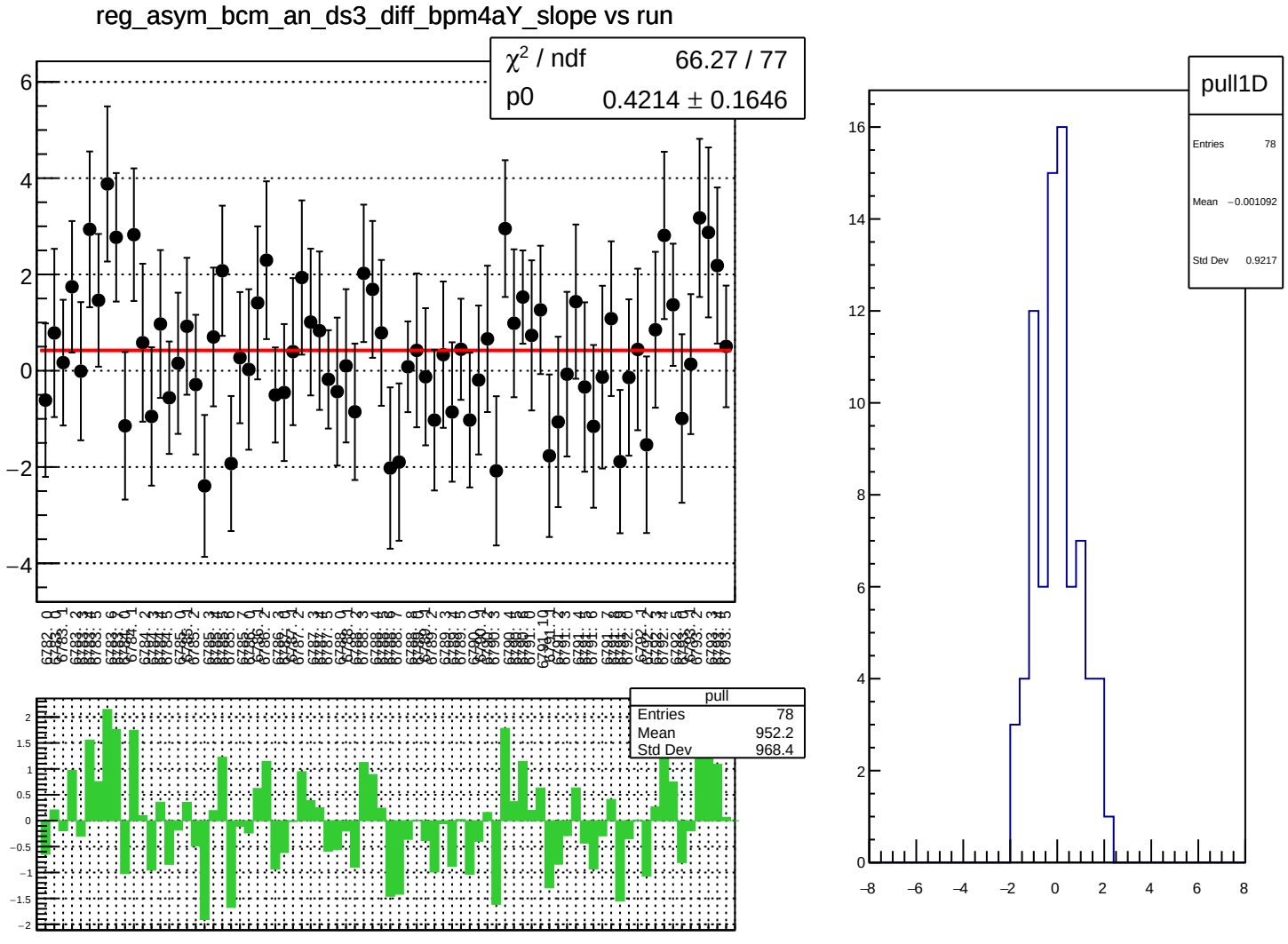

pull1D
Entries 78
Mean −0.00149
Std Dev 1.049

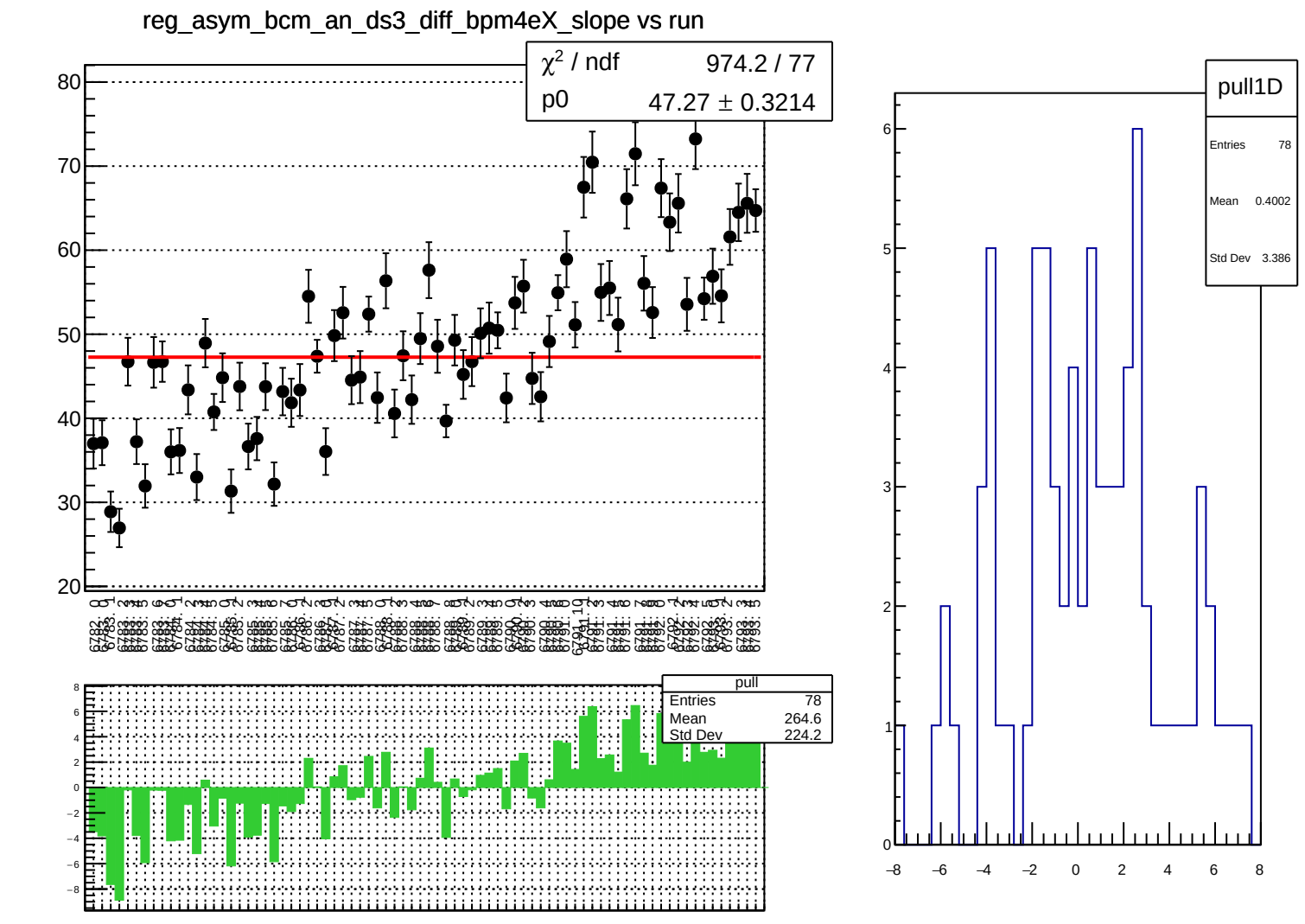

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.54 / 77
p0 8.385 ± 0.9388
pull
Entries 78
Mean −196.8
Std Dev 228.1
pull1D
Entries 78
Mean 0.03417
Std Dev 0.99

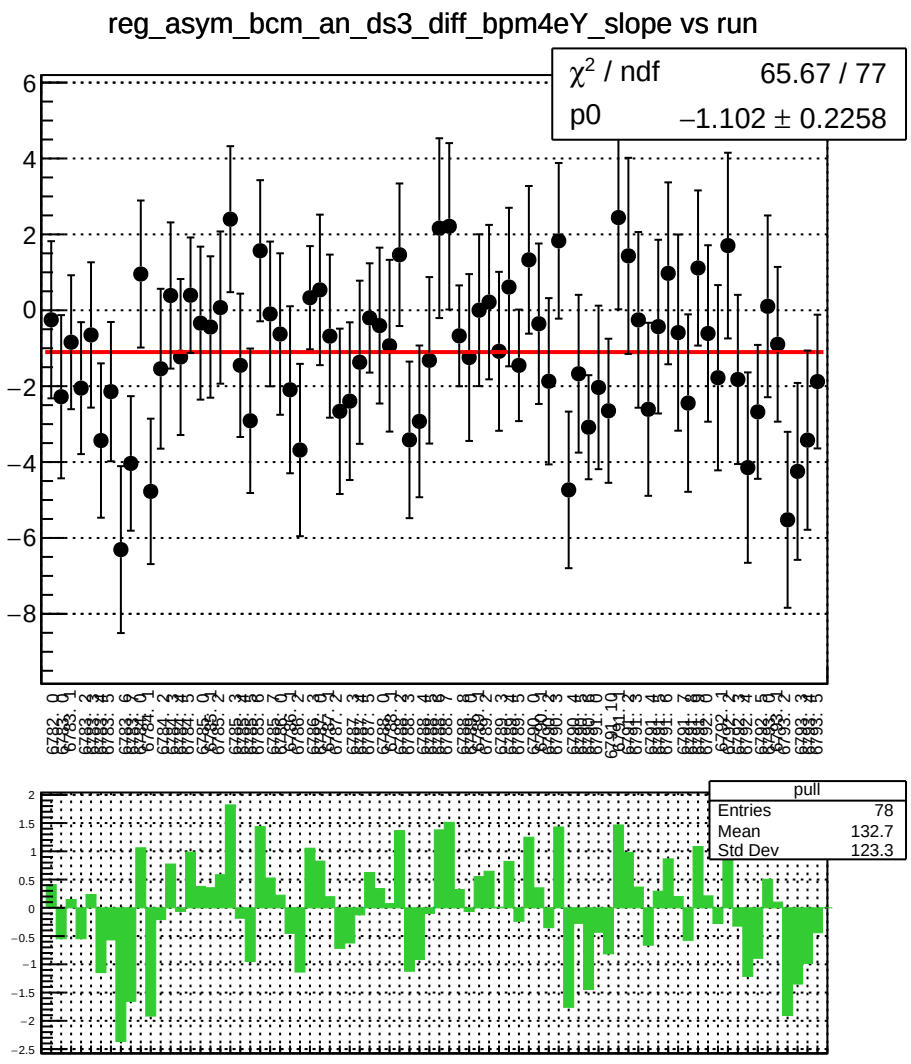

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 91.93 / 77
p0 −9.662 ± 0.06302
pull
Entries 78
Mean 194.4
Std Dev 152.2
pull1D
Entries 78
Mean 0.02356
Std Dev 1.085

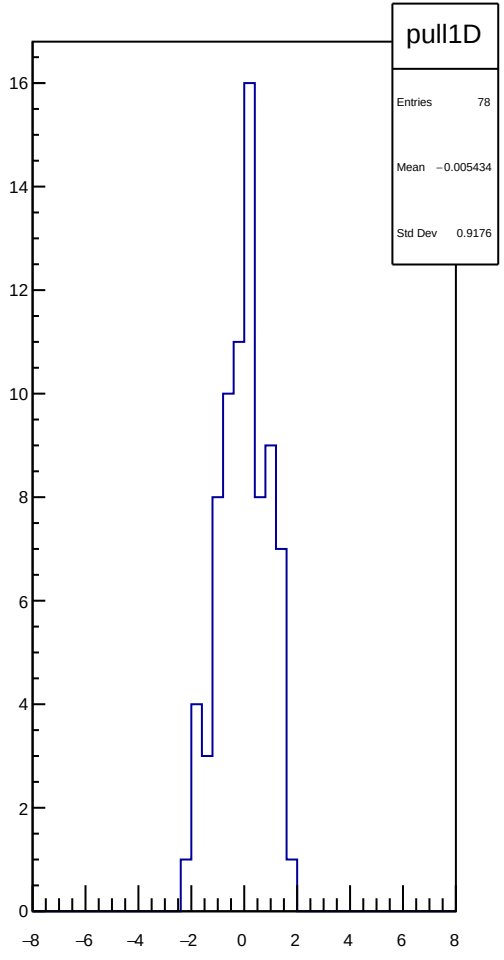

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 967.4 / 77
p0 −51.1 ± 0.3443
pull
Entries 78
Mean 264.5
Std Dev 224.2

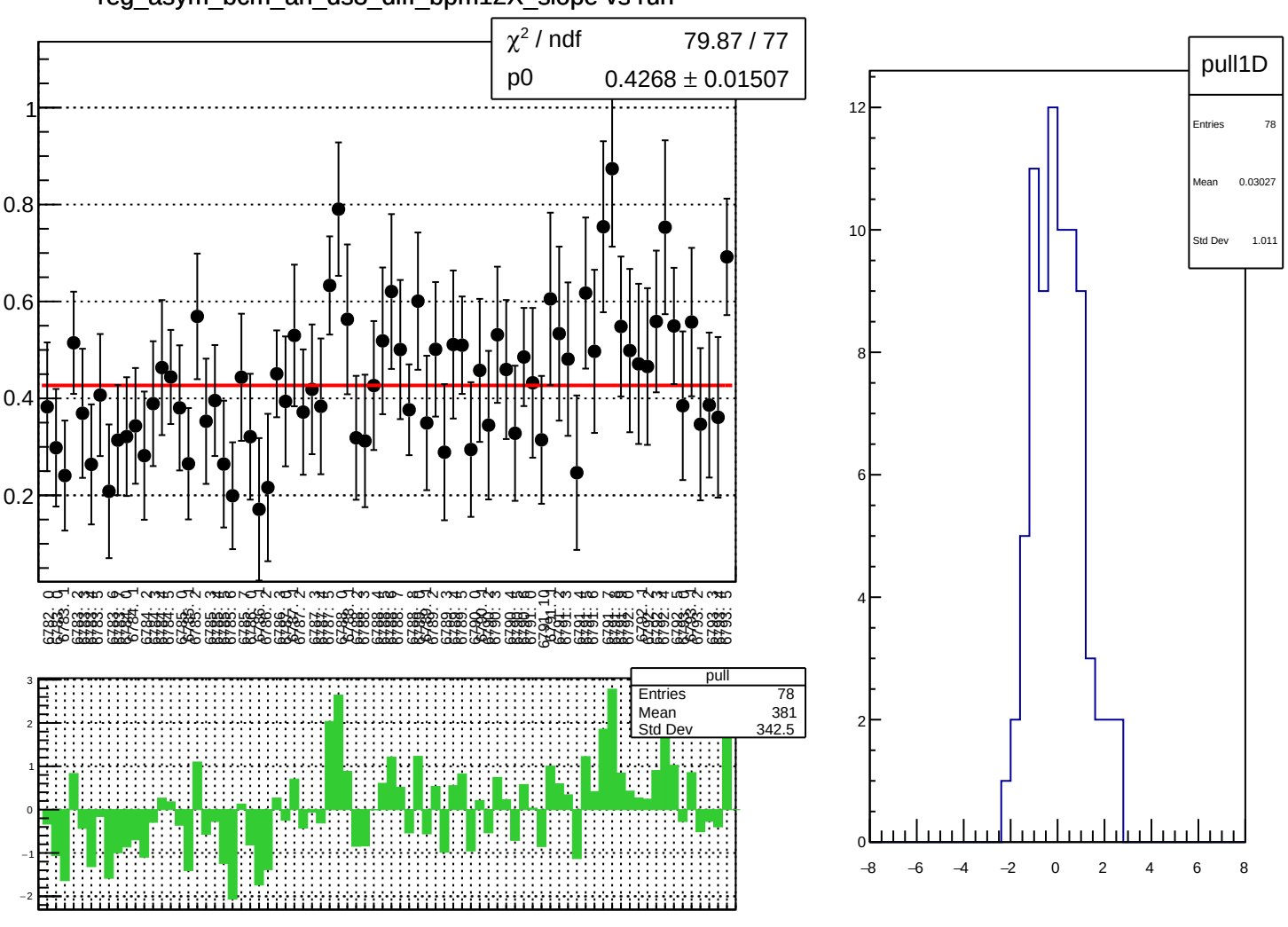

pull1D
Entries 78
Mean −0.3958
Std Dev 3.378

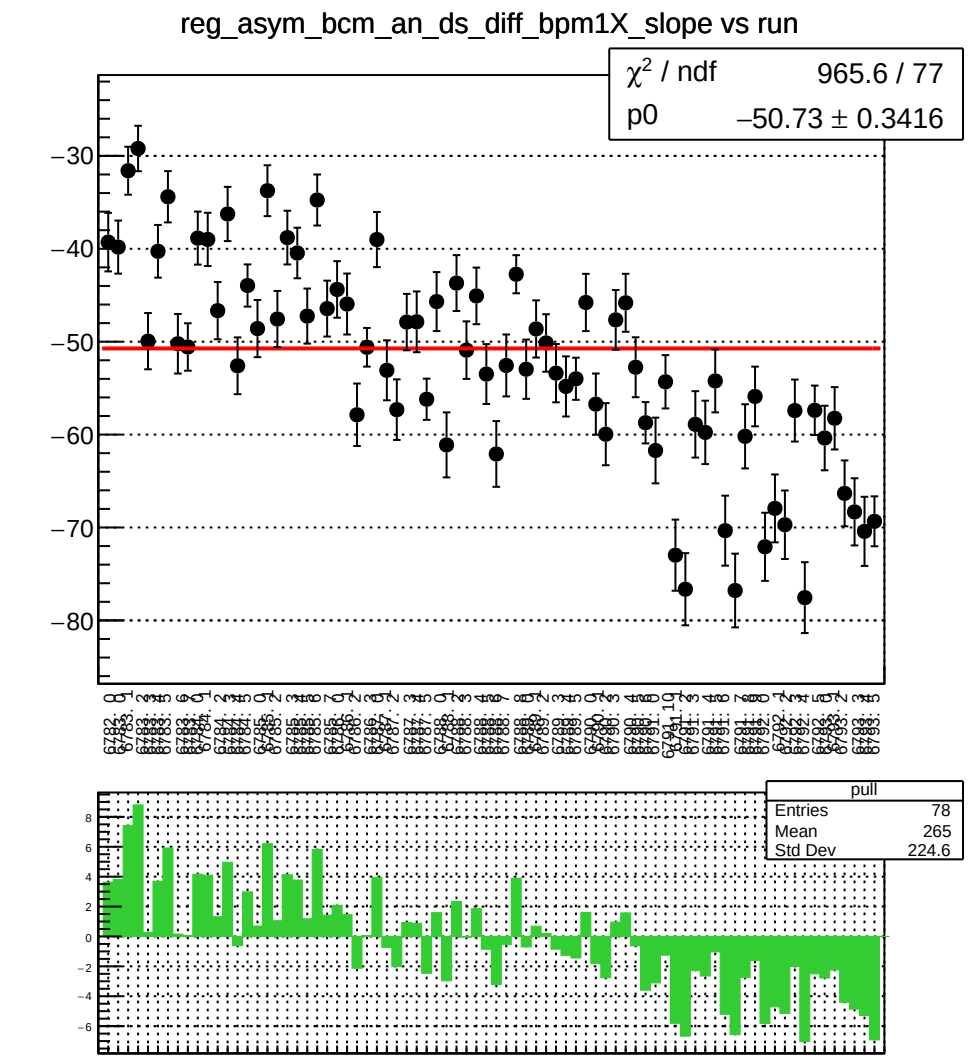

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 66.27 / 77
p0 0.4214 ± 0.1646
pull
Entries 78
Mean 952.2
Std Dev 968.4
pull1D
Entries 78
Mean −0.001092
Std Dev 0.9217

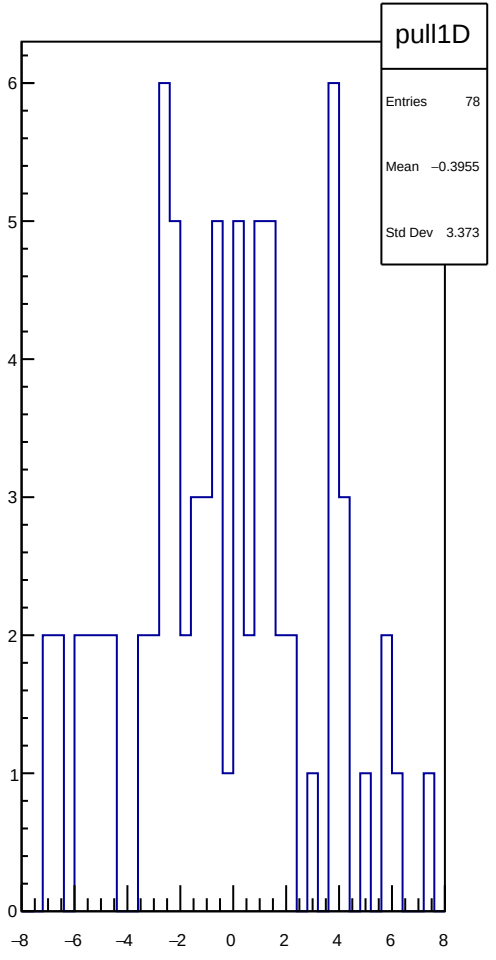

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 974.2 / 77
p0 47.27 ± 0.3214
pull
Entries 78
Mean 264.6
Std Dev 224.2
pull1D
Entries 78
Mean 0.4002
Std Dev 3.386

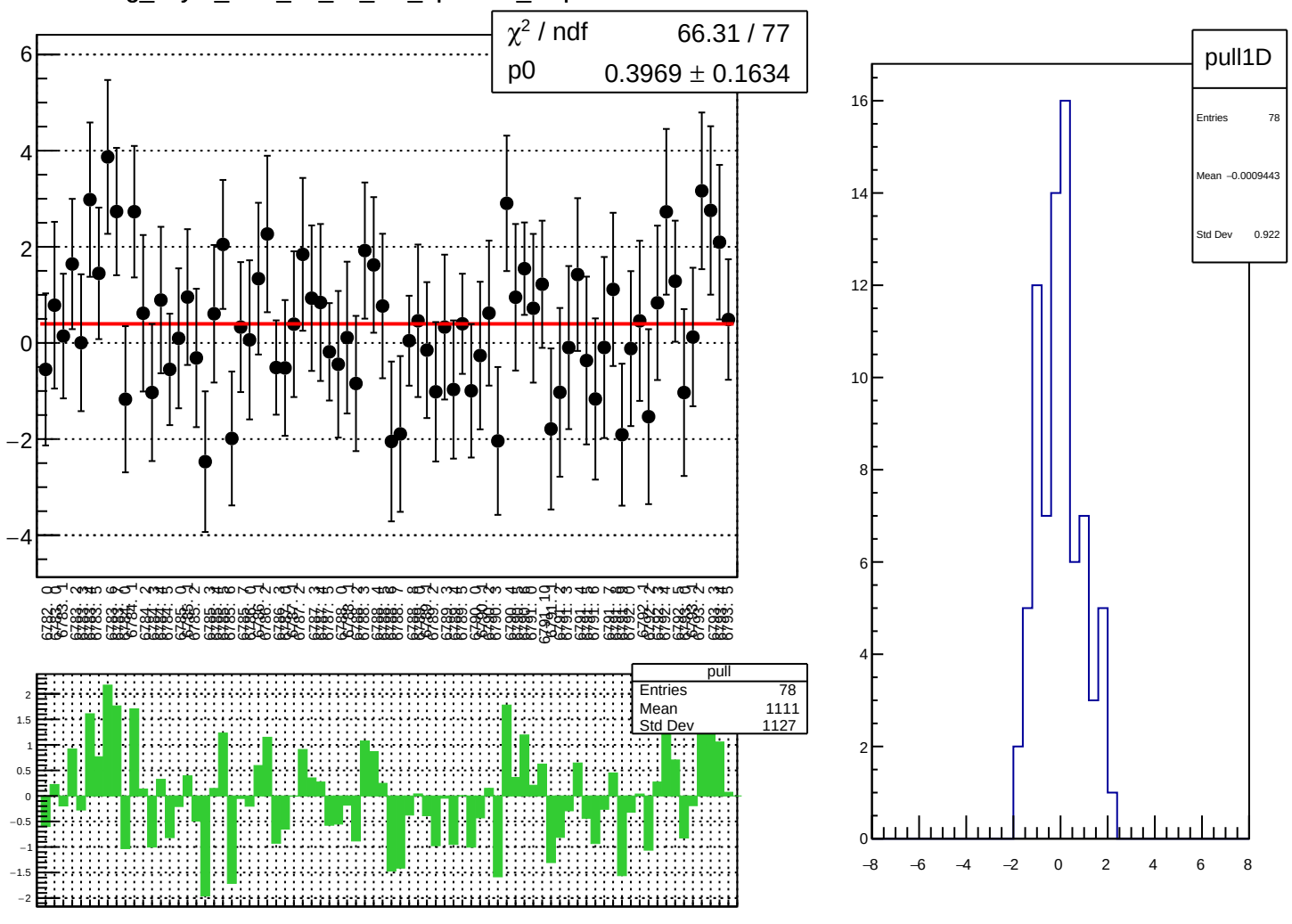

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 65.67 / 77
p0 −1.102 ± 0.2258
pull
Entries 78
Mean 132.7
Std Dev 123.3

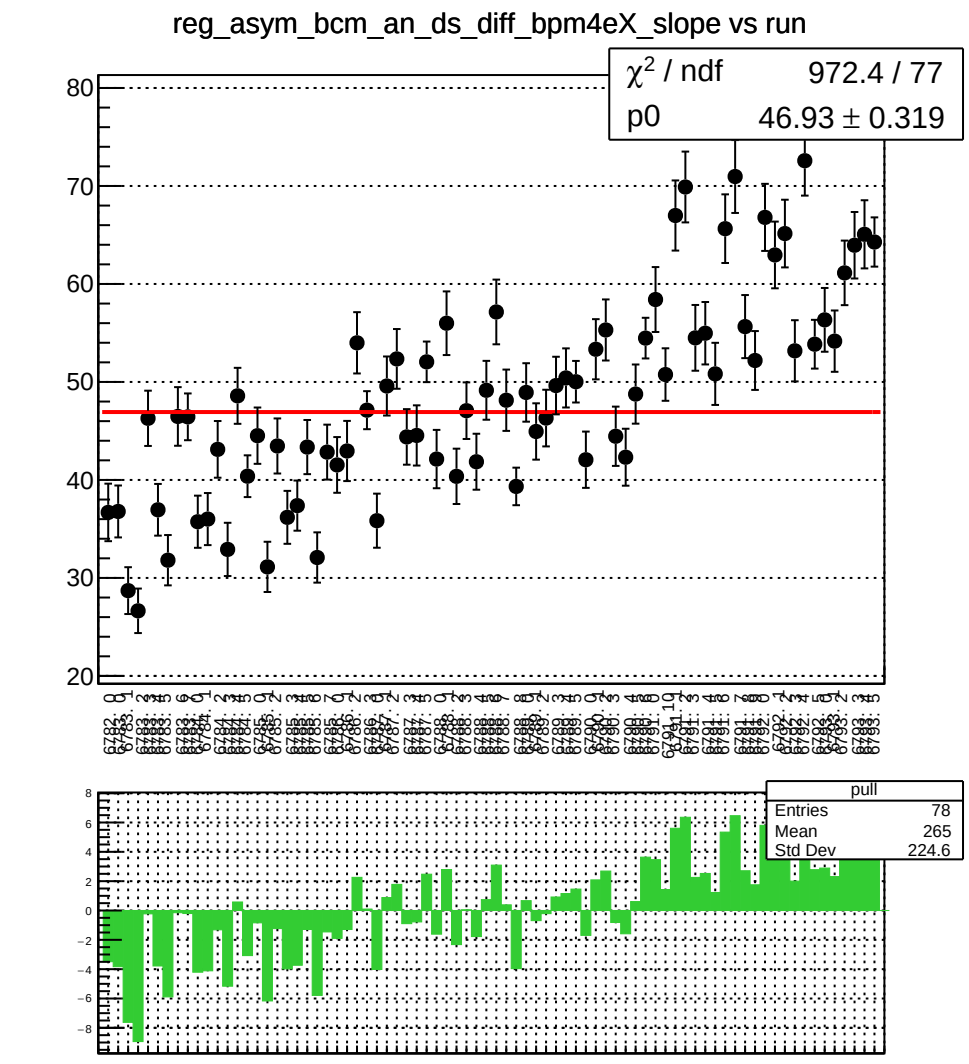

pull1D
Entries 78
Mean −0.005434
Std Dev 0.9176

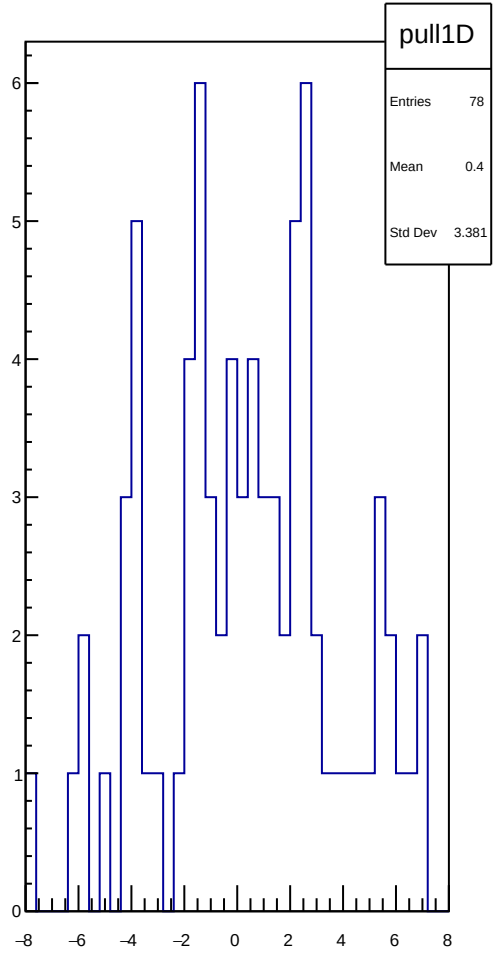

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 79.87 / 77
p0 0.4268 ± 0.01507
pull
Entries 78
Mean 381
Std Dev 342.5
pull1D
Entries 78
Mean 0.03027
Std Dev 1.011

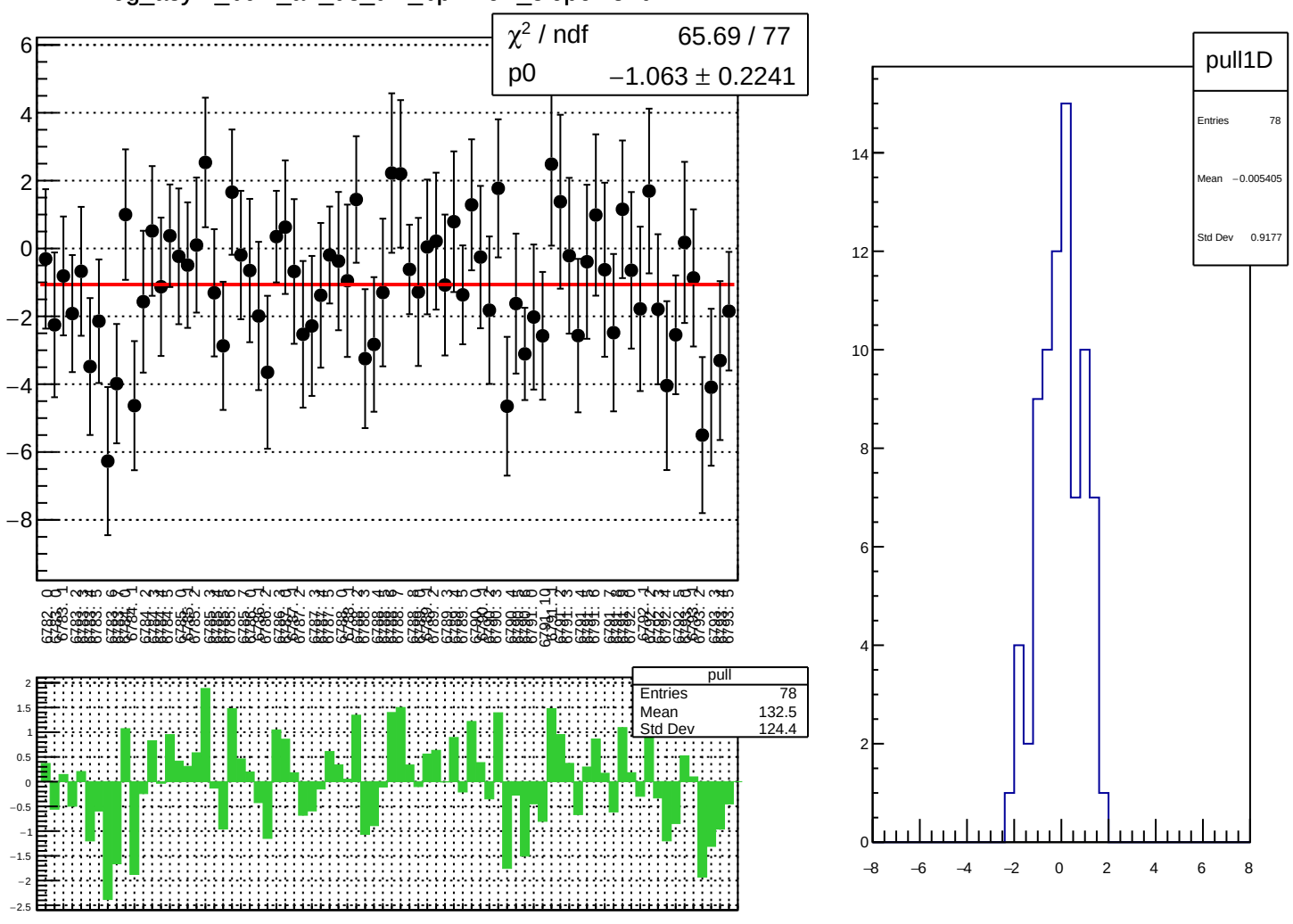

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 965.6 / 77
p0 −50.73 ± 0.3416
pull
Entries 78
Mean 265
Std Dev 224.6

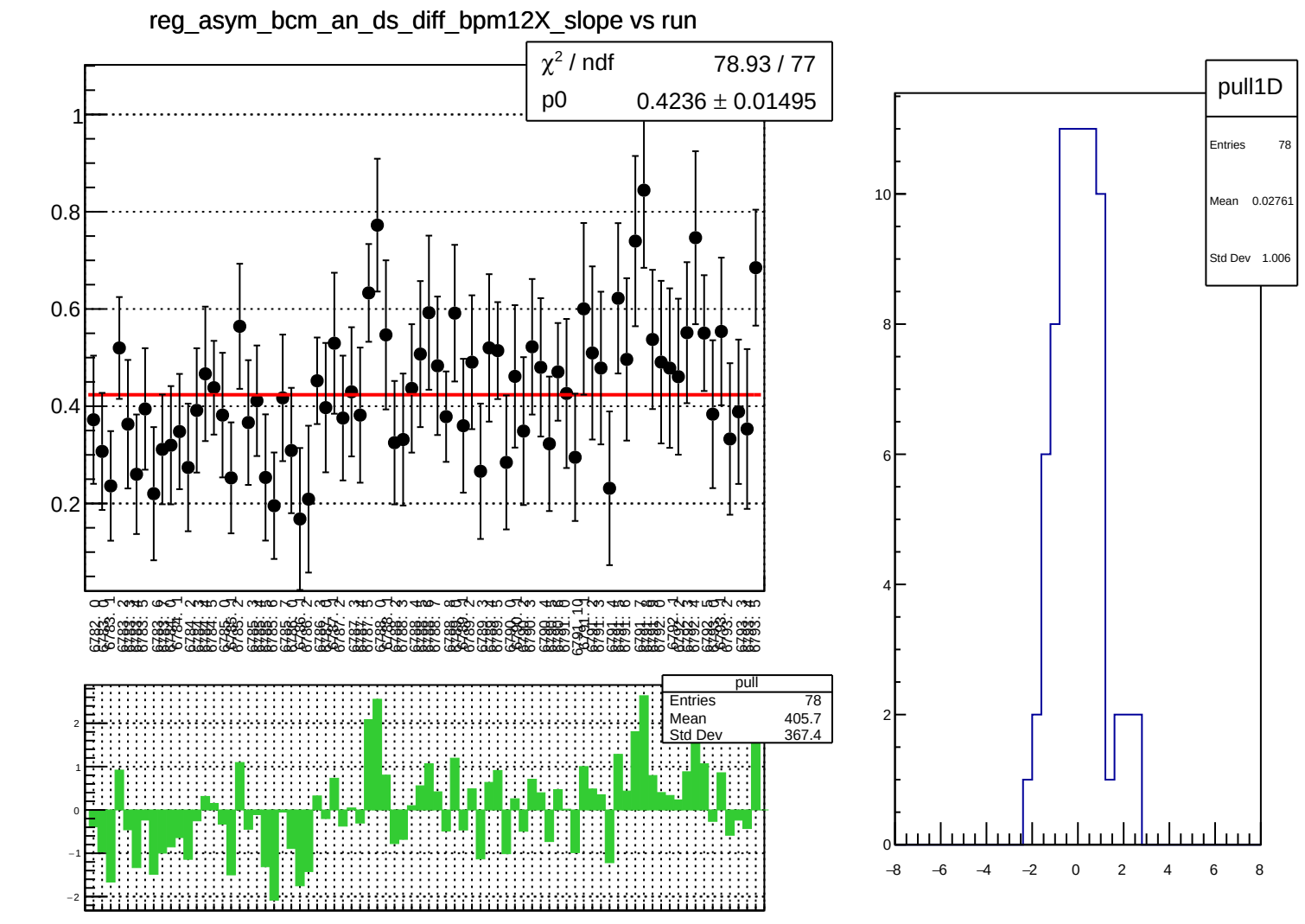

pull1D
Entries 78
Mean −0.3955
Std Dev 3.373

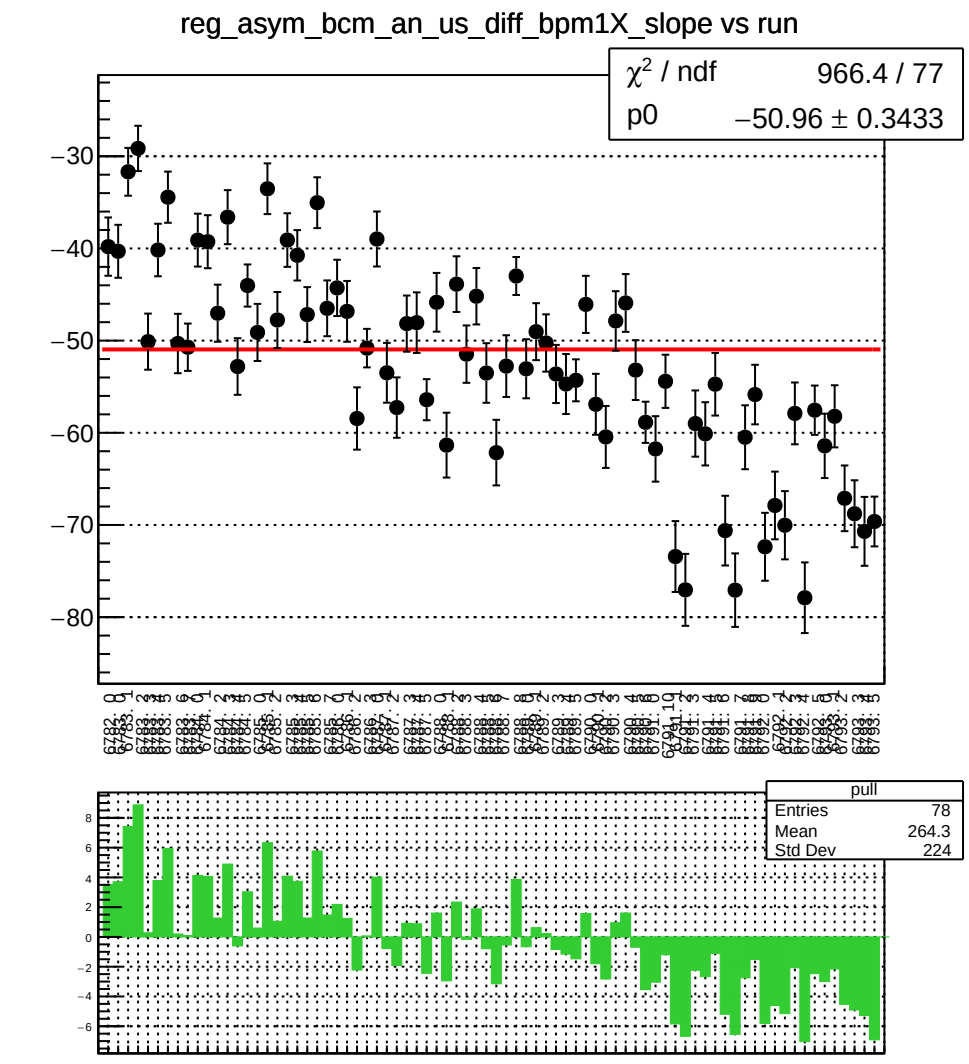

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 66.31 / 77
p0 0.3969 ± 0.1634
pull
Entries 78
Mean 1111
Std Dev 1127
pull1D
Entries 78
Mean −0.0009443
Std Dev 0.922

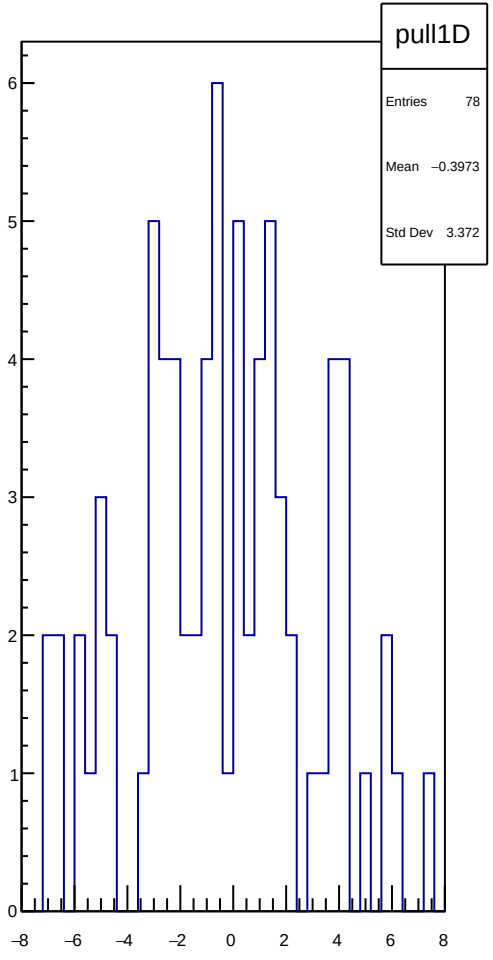

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 972.4 / 77
p0 46.93 ± 0.319
pull
Entries 78
Mean 265
Std Dev 224.6

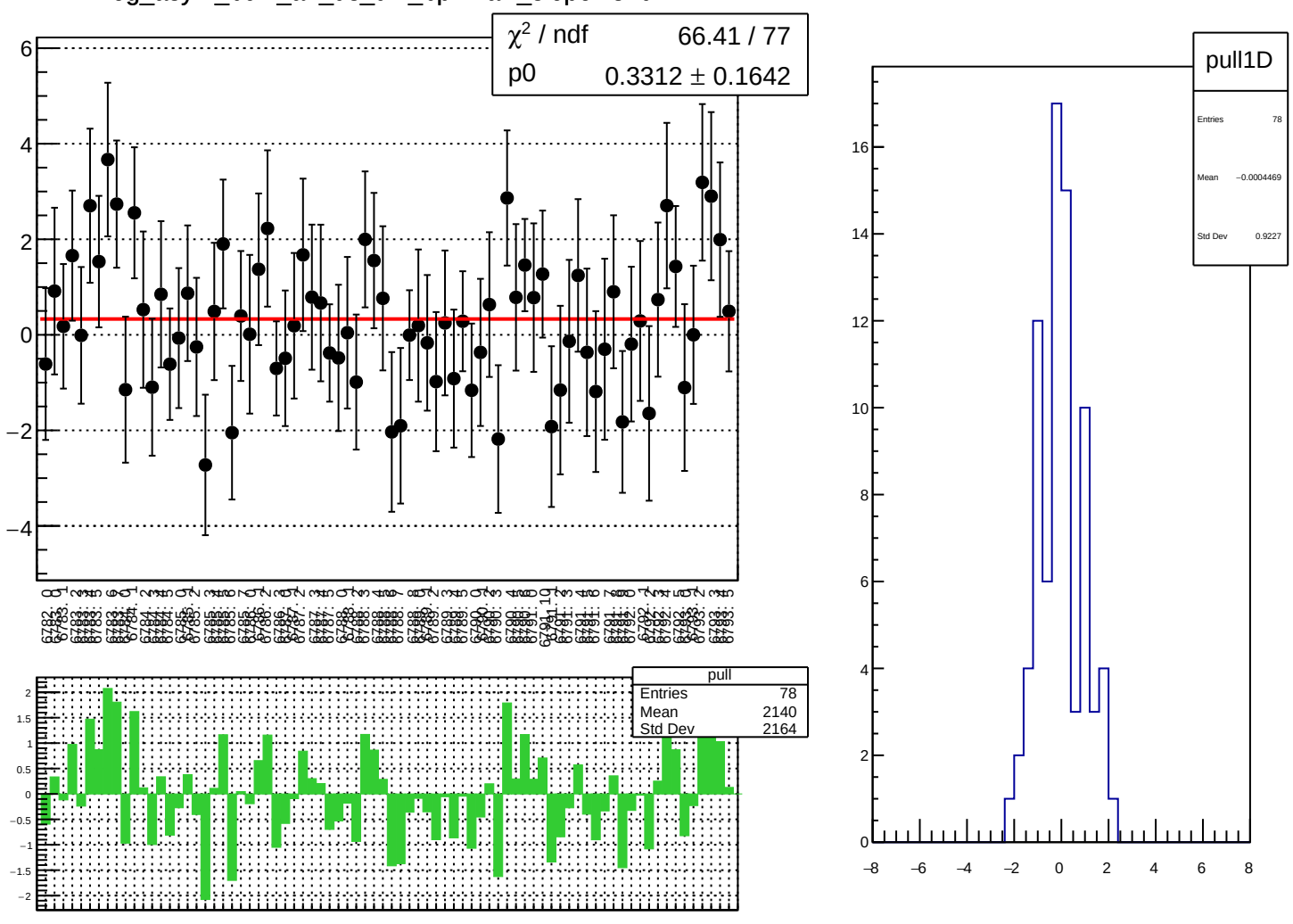

pull1D
Entries 78
Mean 0.4
Std Dev 3.381

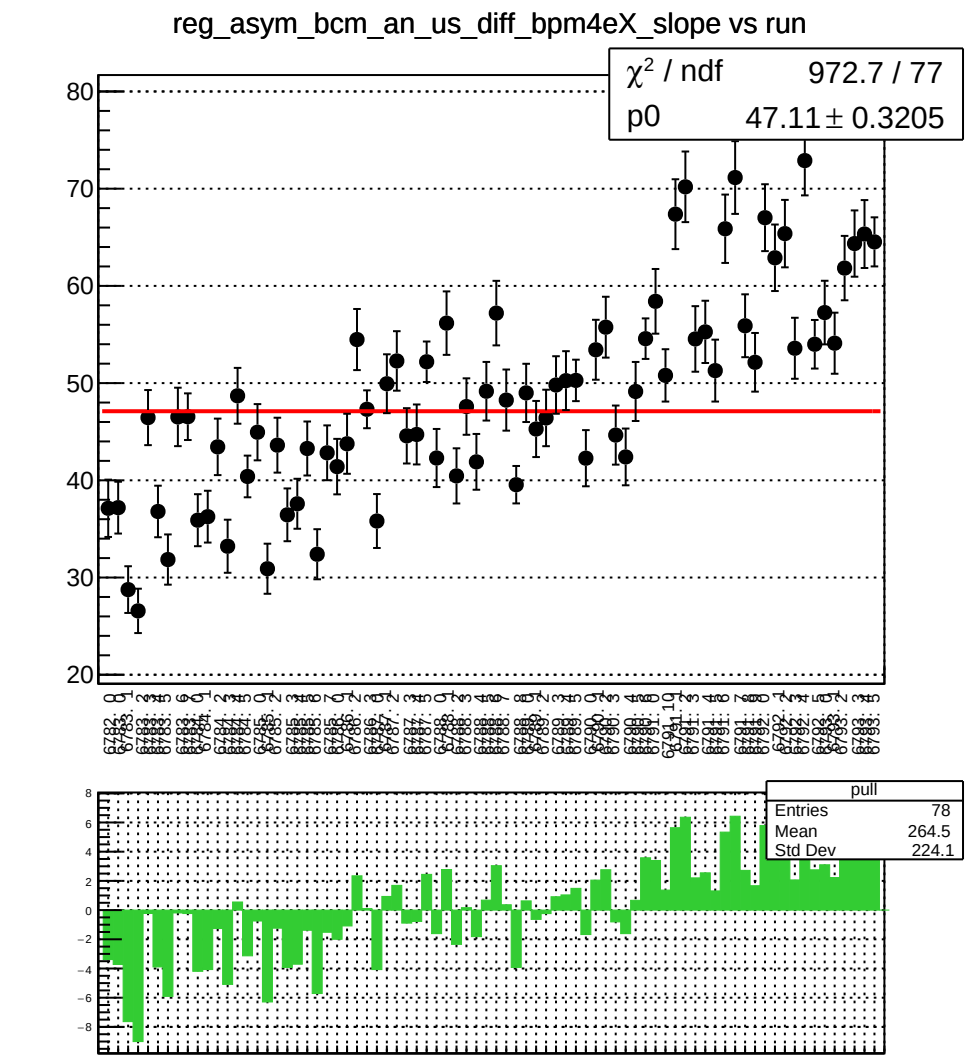

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 65.69 / 77
p0 −1.063 ± 0.2241
pull
Entries 78
Mean 132.5
Std Dev 124.4
pull1D
Entries 78
Mean −0.005405
Std Dev 0.9177

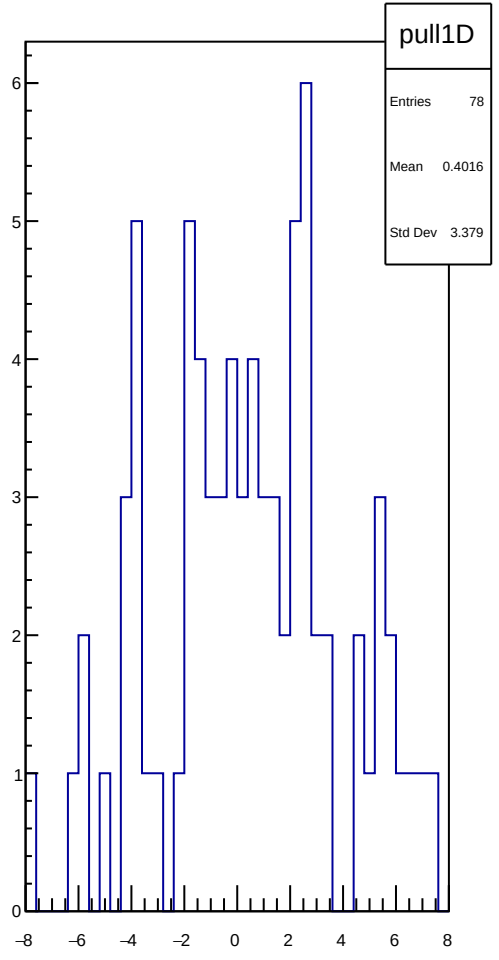

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 78.93 / 77
p0 0.4236 ± 0.01495
pull
Entries 78
Mean 405.7
Std Dev 367.4
pull1D
Entries 78
Mean 0.02761
Std Dev 1.006

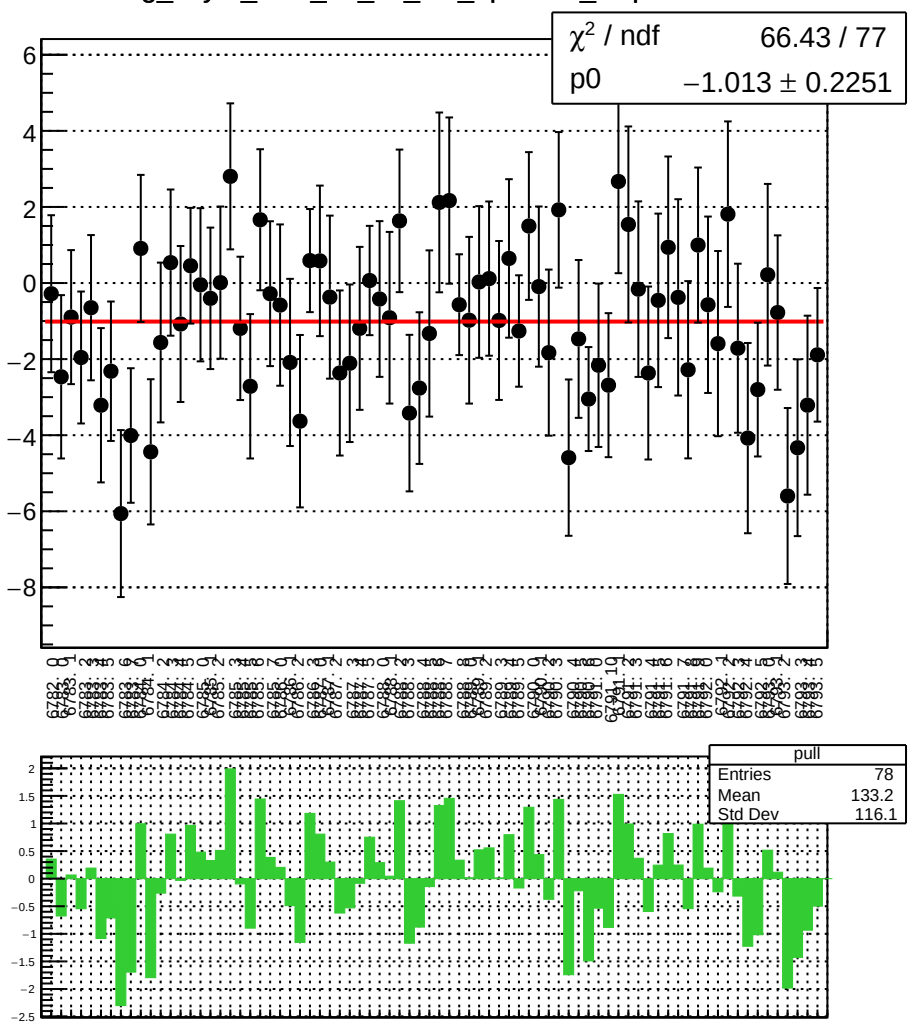

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 966.4 / 77
p0 −50.96 ± 0.3433
pull
Entries 78
Mean 264.3
Std Dev 224

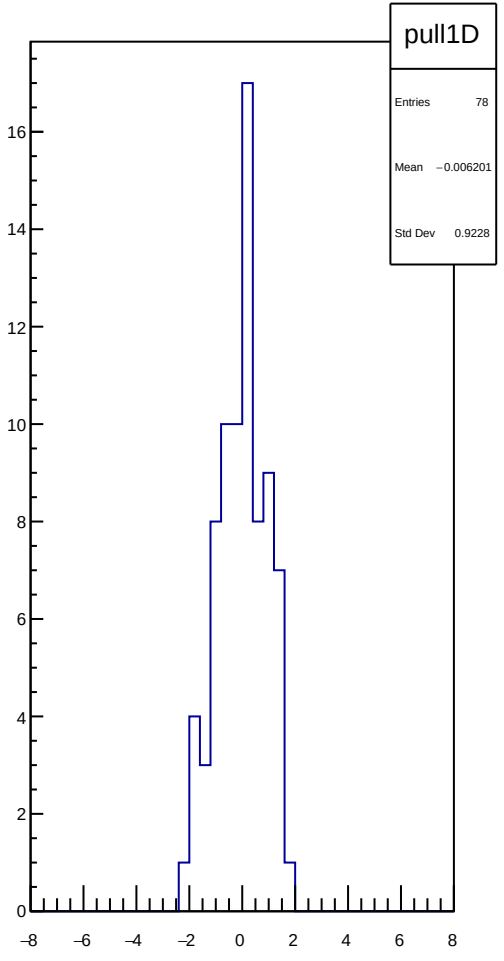

pull1D
Entries 78
Mean −0.3973
Std Dev 3.372

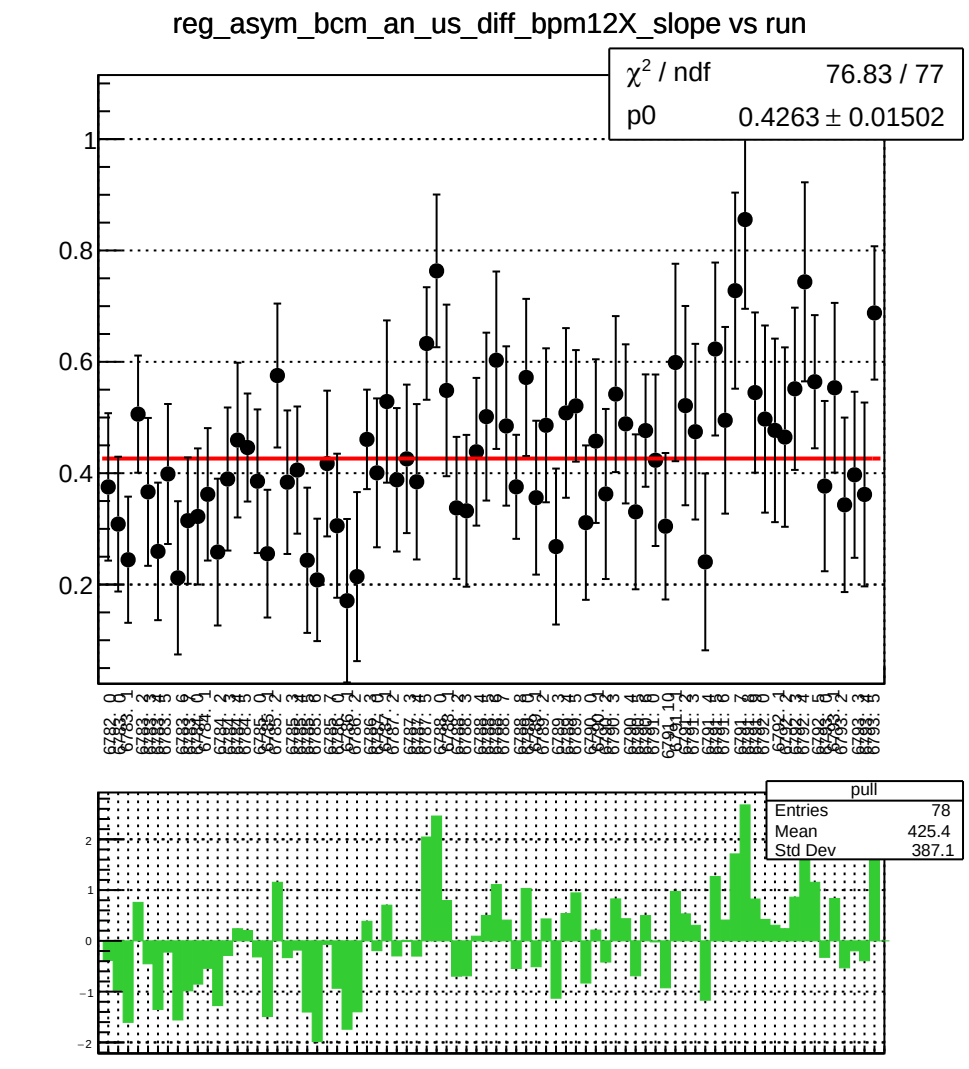

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 66.41 / 77
p0 0.3312 ± 0.1642
pull
Entries 78
Mean 2140
Std Dev 2164
pull1D
Entries 78
Mean −0.0004469
Std Dev 0.9227

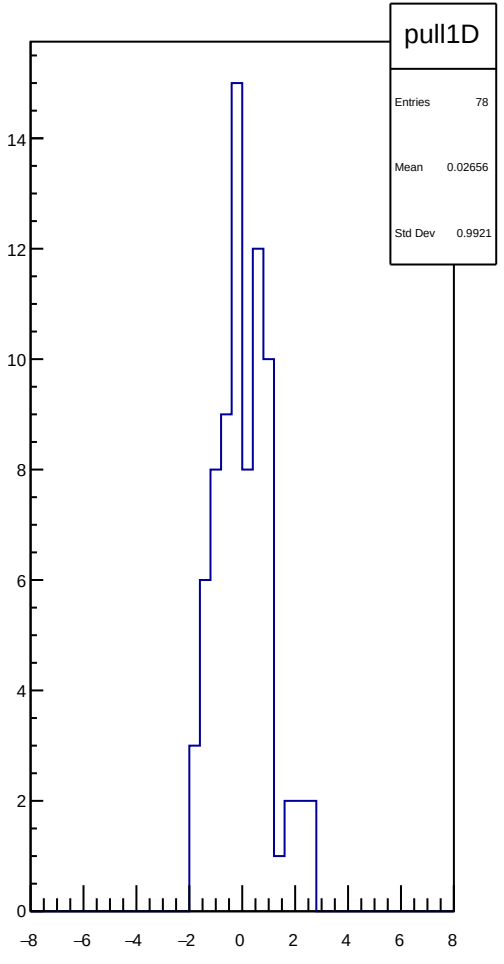

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 972.7 / 77
p0 47.11 ± 0.3205
pull
Entries 78
Mean 264.5
Std Dev 224.1

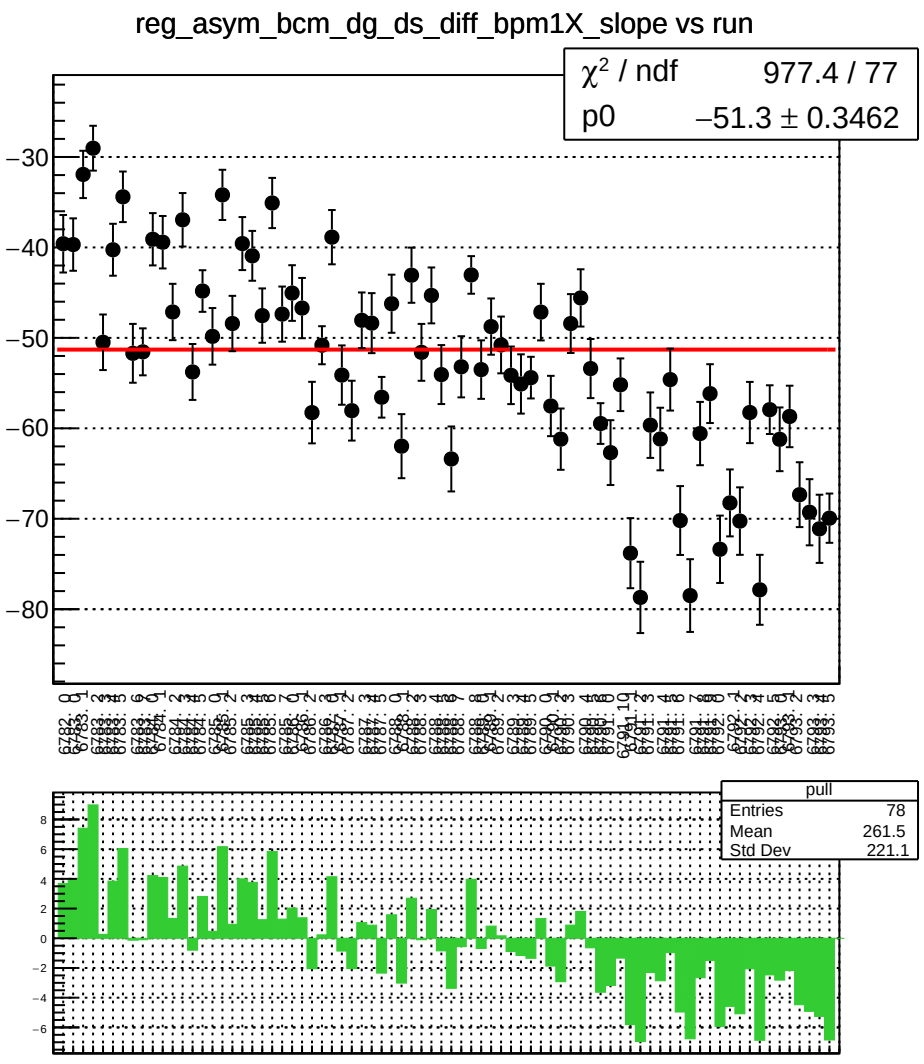

pull1D
Entries 78
Mean 0.4016
Std Dev 3.379

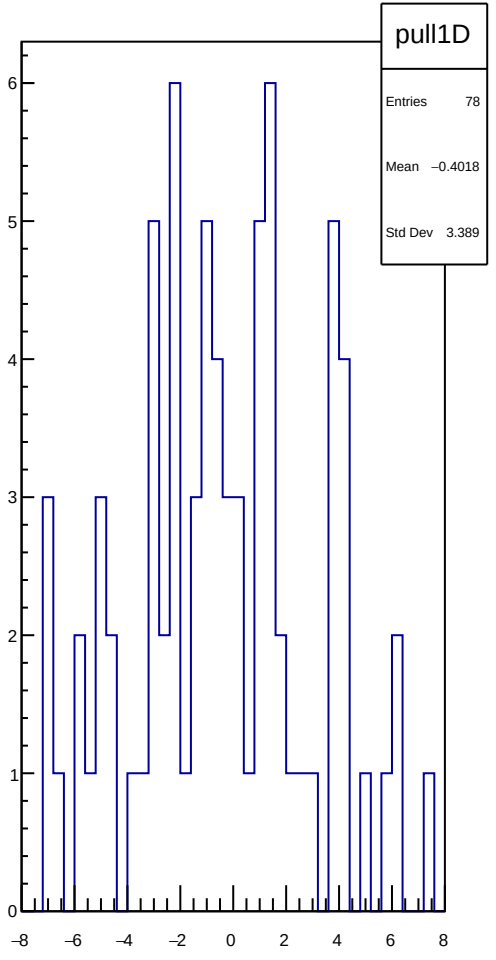

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 66.43 / 77
p0 −1.013 ± 0.2251
pull
Entries 78
Mean 133.2
Std Dev 116.1

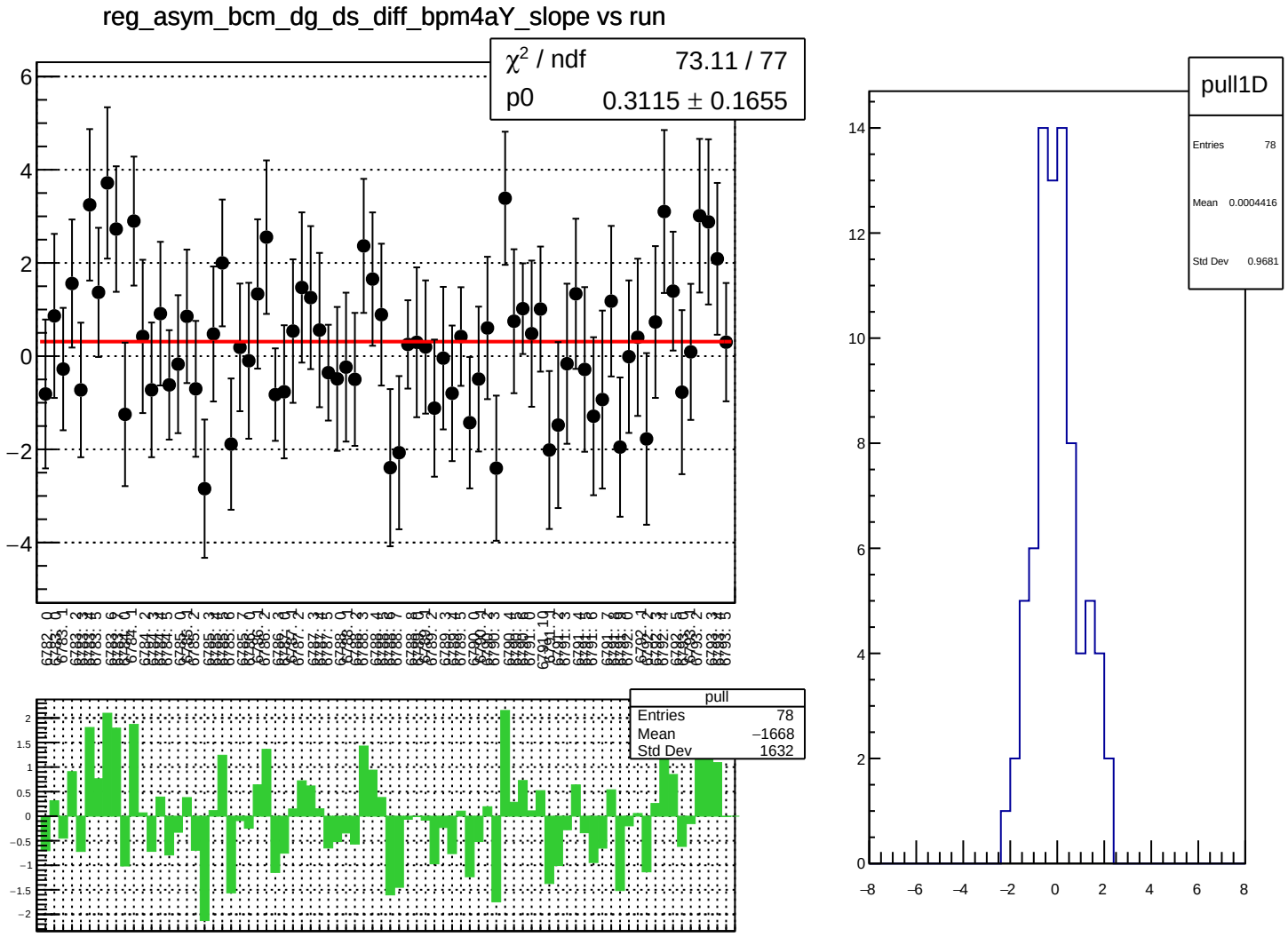

pull1D
Entries 78
Mean −0.006201
Std Dev 0.9228

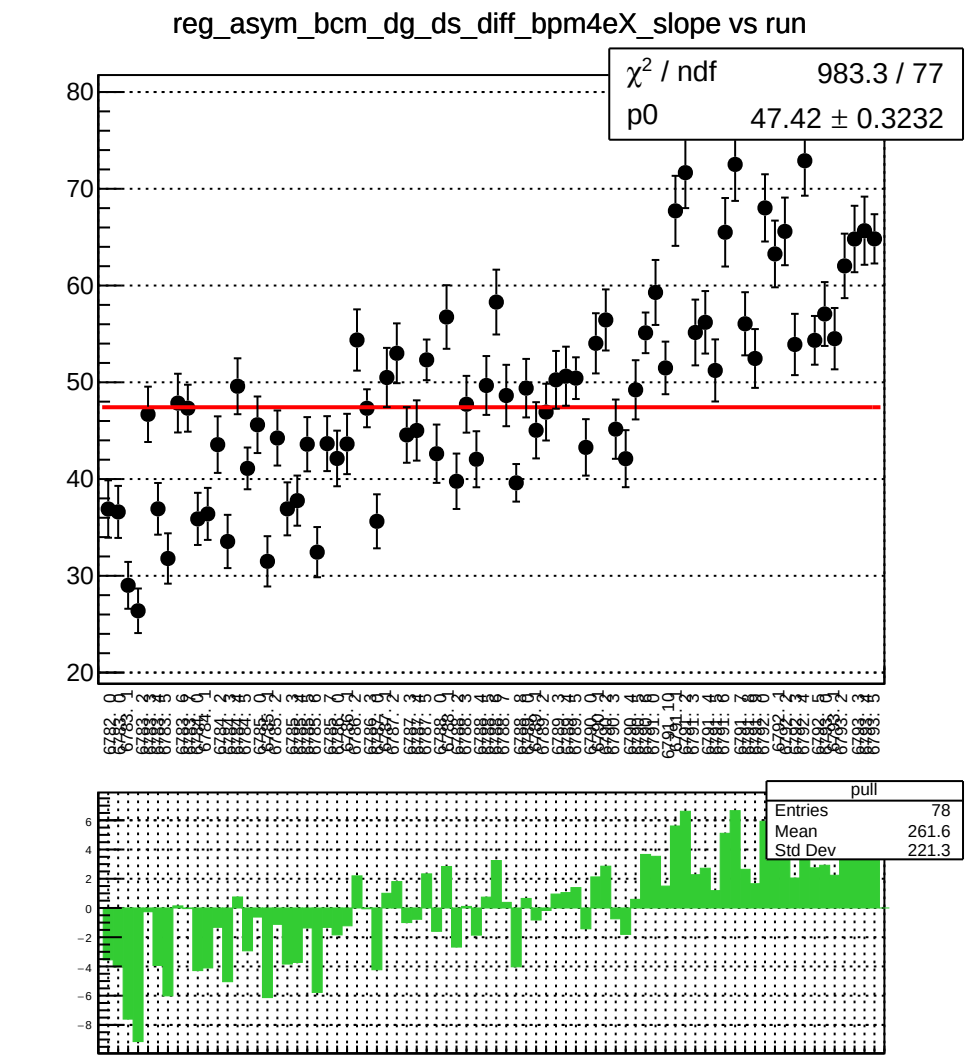

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 76.83 / 77
p0 0.4263 ± 0.01502
pull
Entries 78
Mean 425.4
Std Dev 387.1

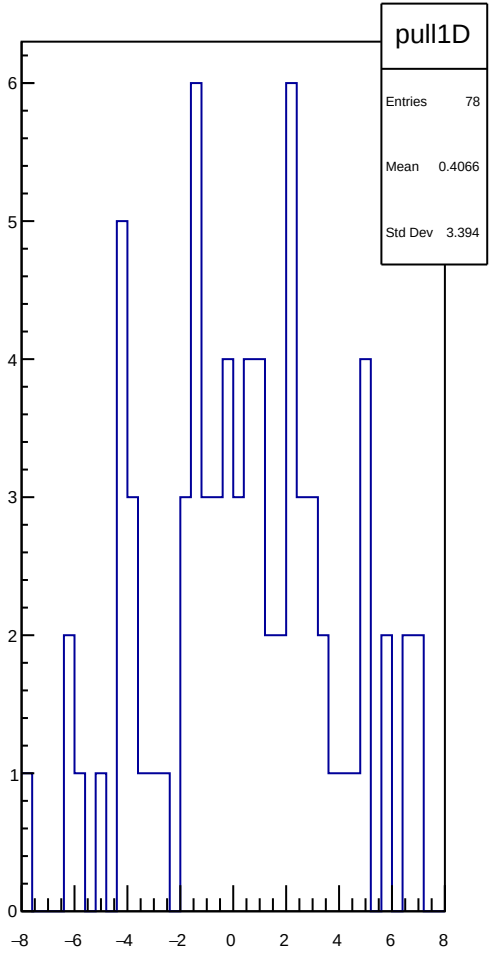

pull1D
Entries 78
Mean 0.02656
Std Dev 0.9921

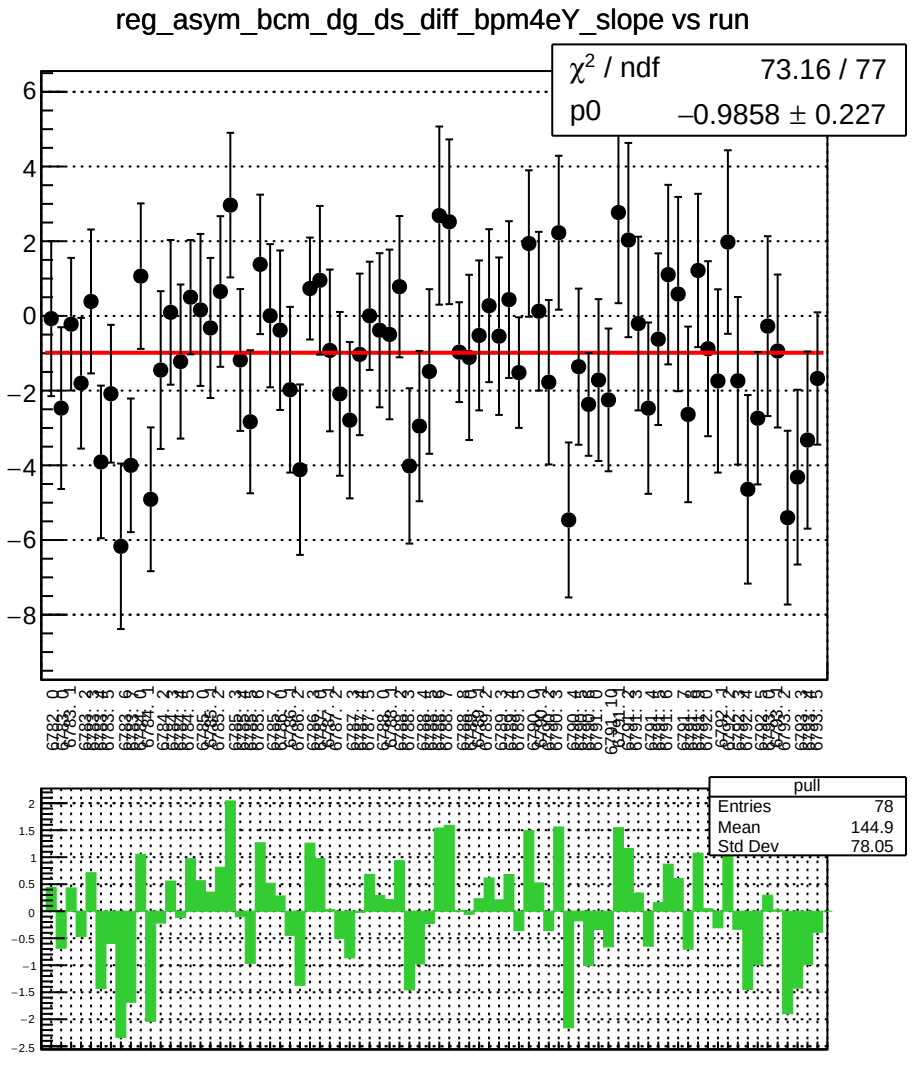

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 977.4 / 77
p0 −51.3 ± 0.3462
pull
Entries 78
Mean 261.5
Std Dev 221.1

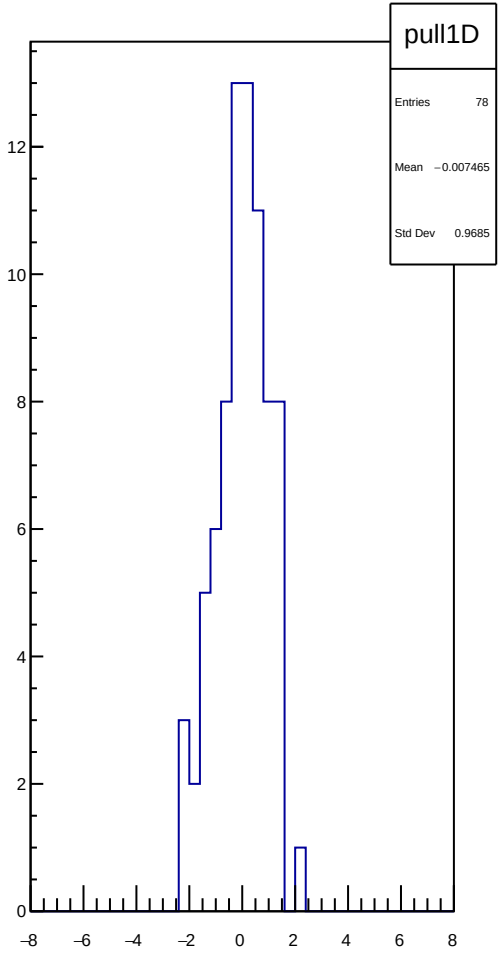

pull1D
Entries 78
Mean −0.4018
Std Dev 3.389

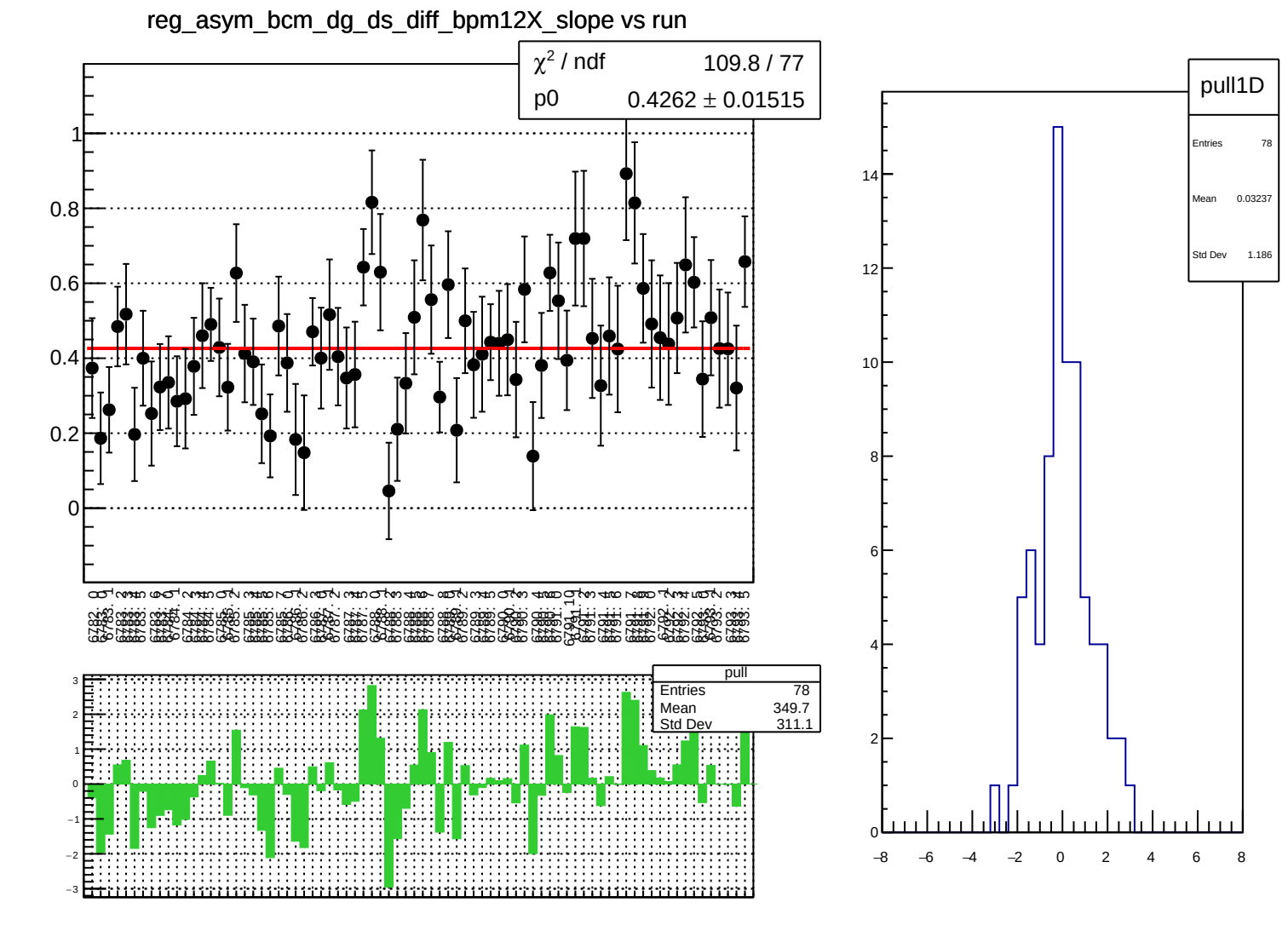

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 73.11 / 77
p0 0.3115 ± 0.1655
pull
Entries 78
Mean −1668
Std Dev 1632
pull1D
Entries 78
Mean 0.0004416
Std Dev 0.9681

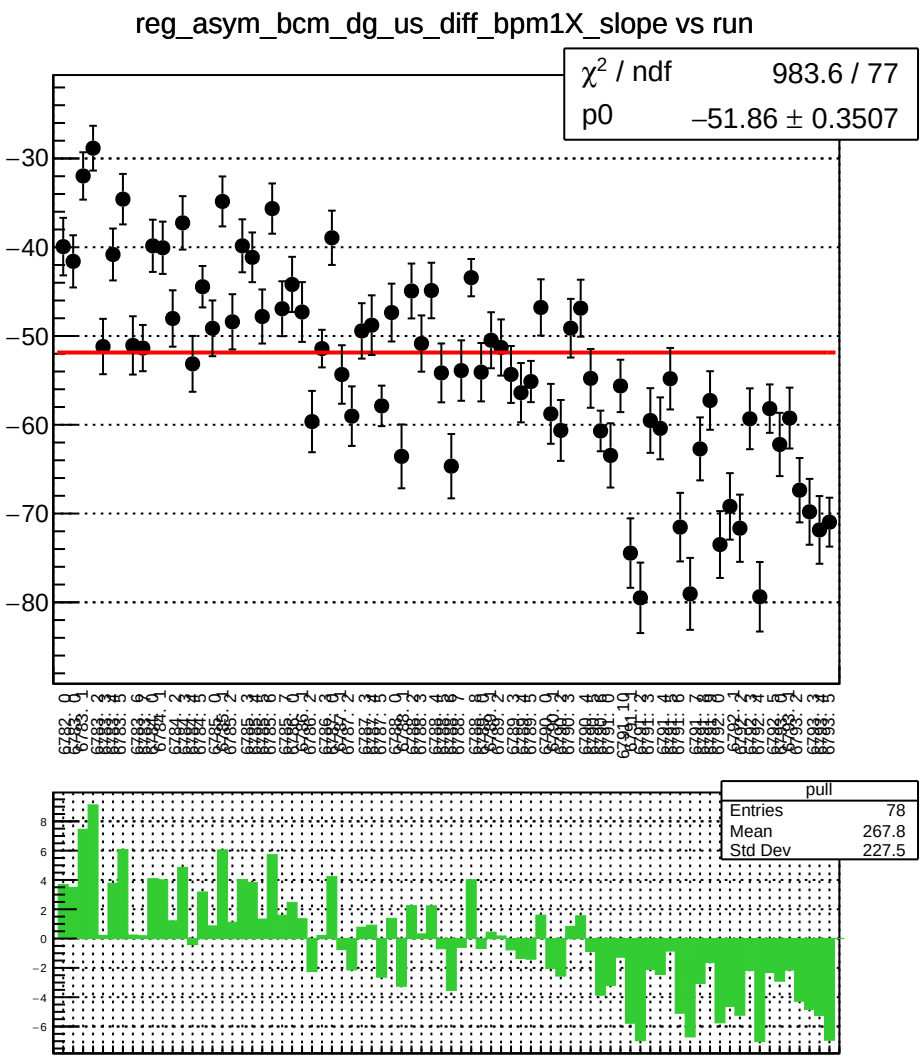

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 983.3 / 77
p0 47.42 ± 0.3232
pull
Entries 78
Mean 261.6
Std Dev 221.3

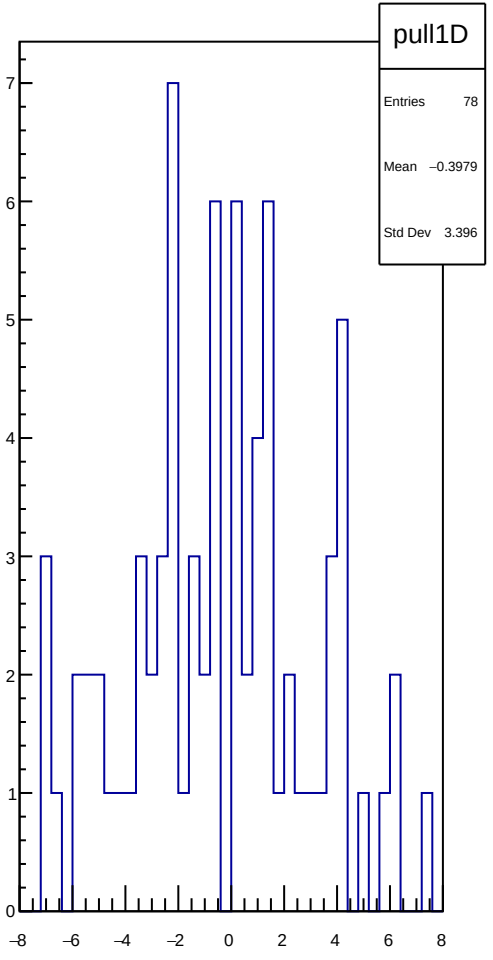

pull1D
Entries 78
Mean 0.4066
Std Dev 3.394

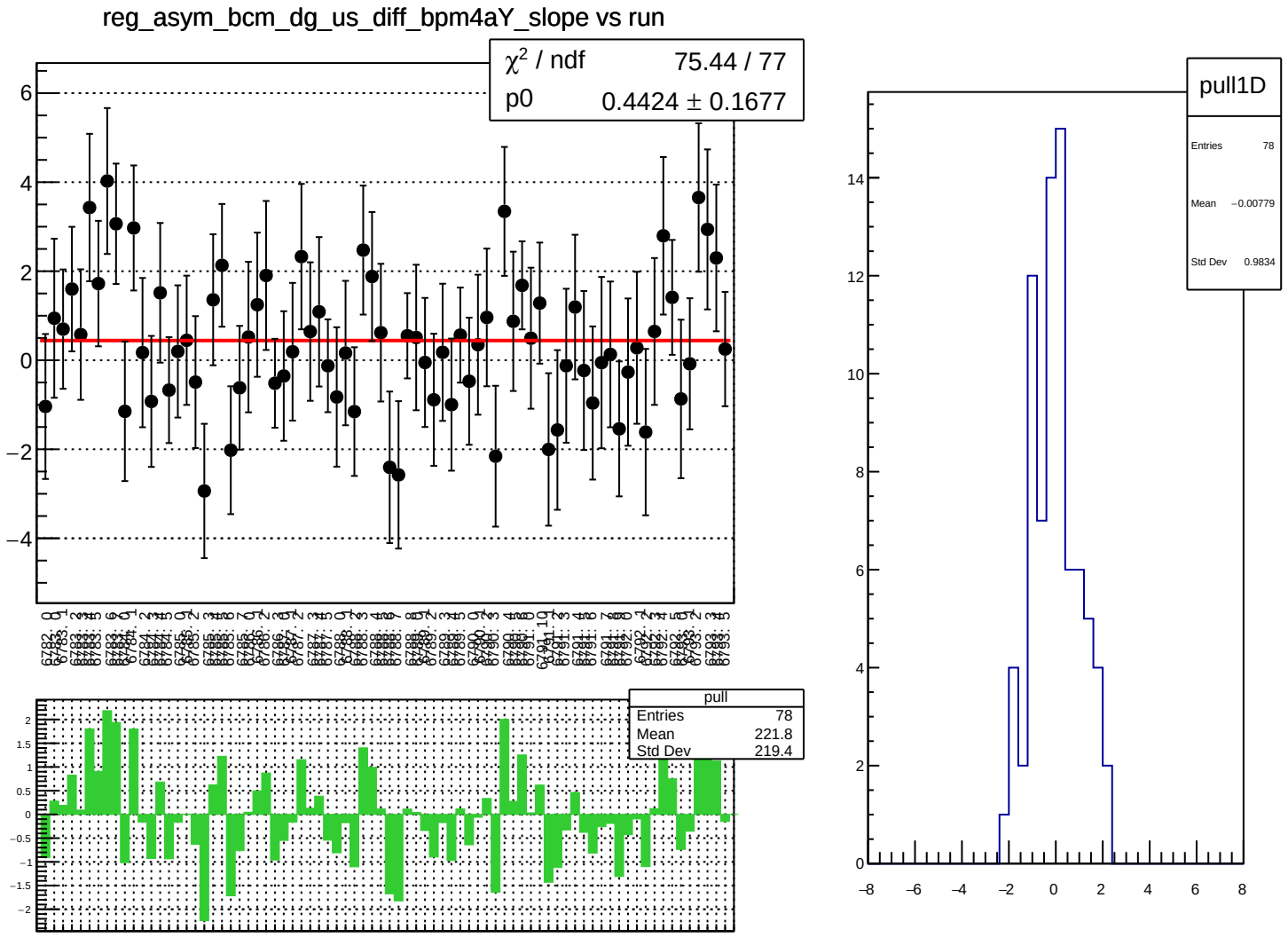

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 73.16 / 77
p0 −0.9858 ± 0.227
pull
Entries 78
Mean 144.9
Std Dev 78.05

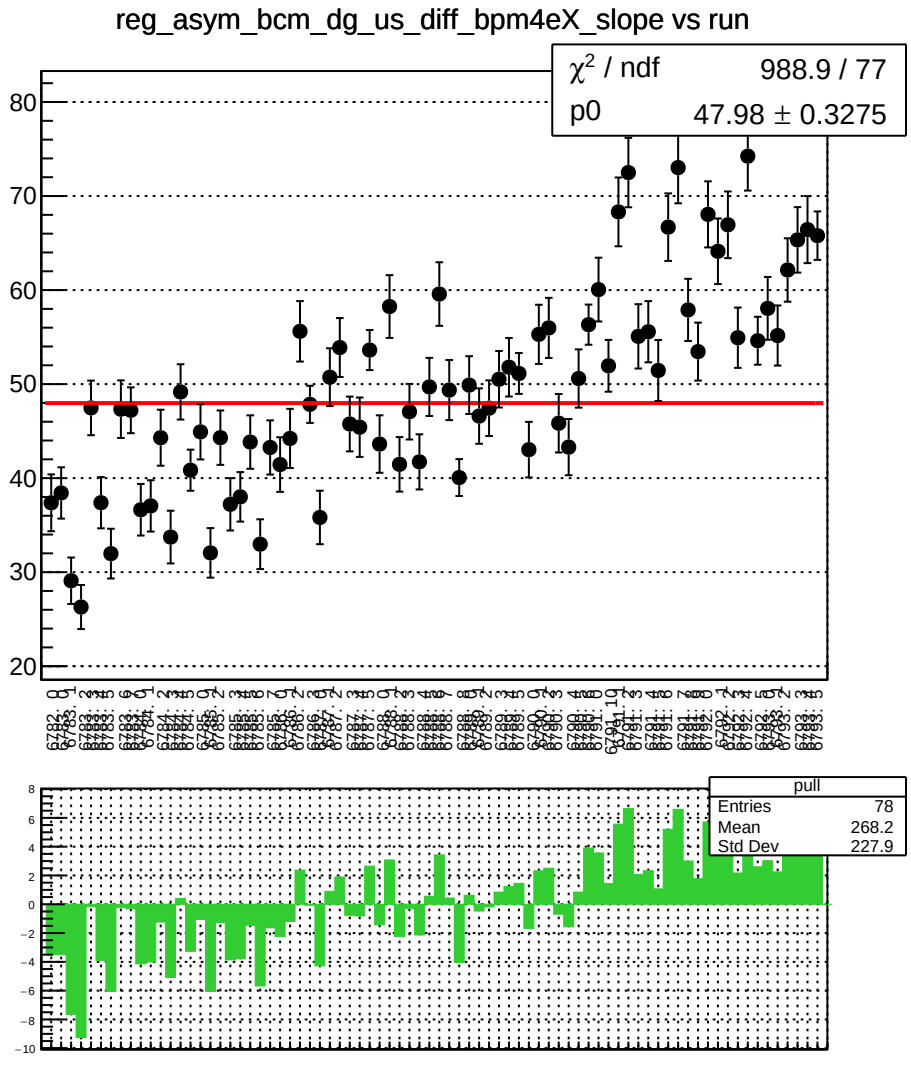

pull1D
Entries 78
Mean −0.007465
Std Dev 0.9685

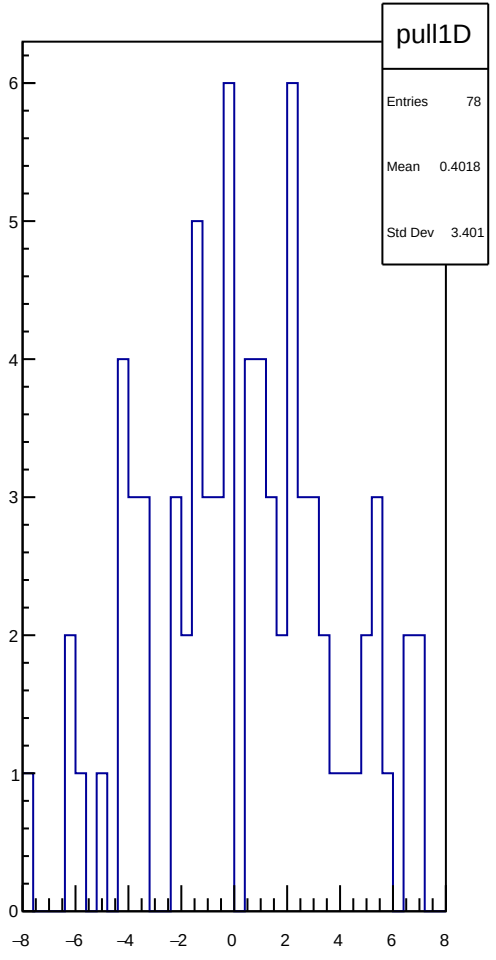

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 109.8 / 77
p0 0.4262 ± 0.01515
pull
Entries 78
Mean 349.7
Std Dev 311.1
pull1D
Entries 78
Mean 0.03237
Std Dev 1.186

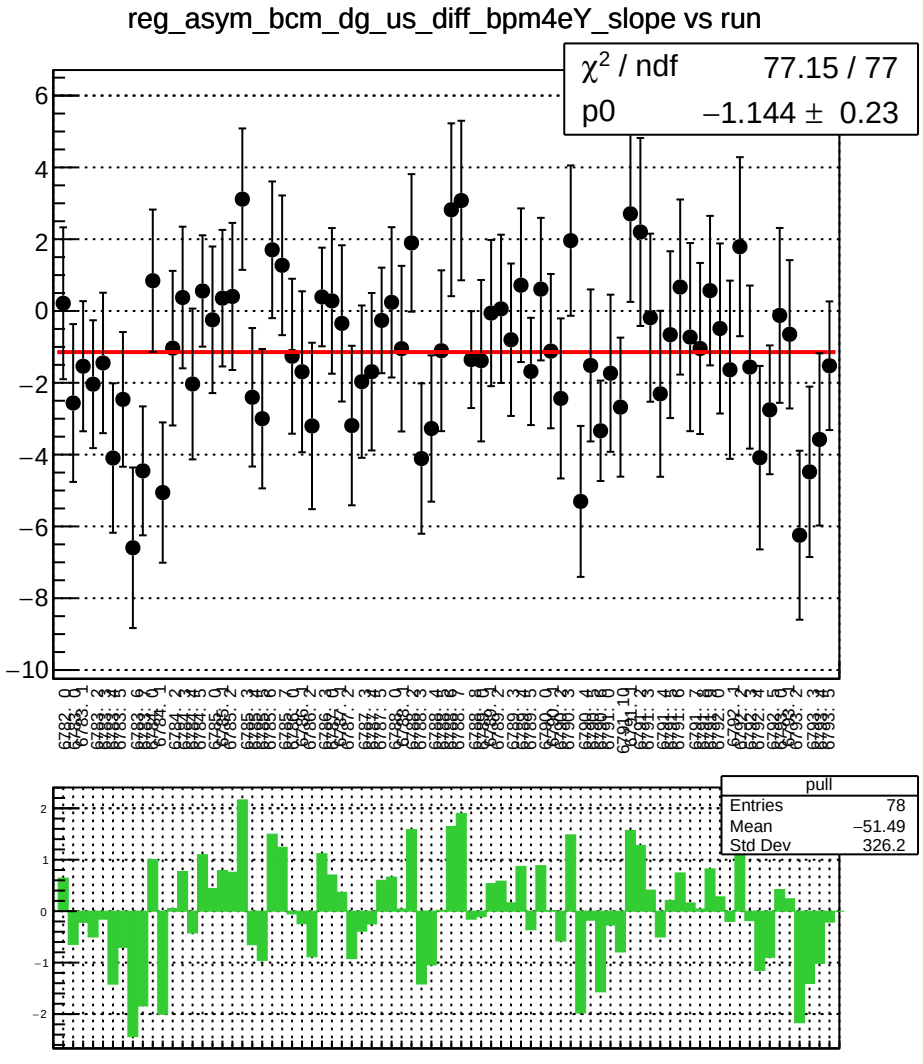

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 983.6 / 77
p0 −51.86 ± 0.3507
−30
−40
−50
−60
−70
−80
pull
Entries 78
Mean 267.8
Std Dev 227.5
8
6
4
2
0
−2
−4
−6

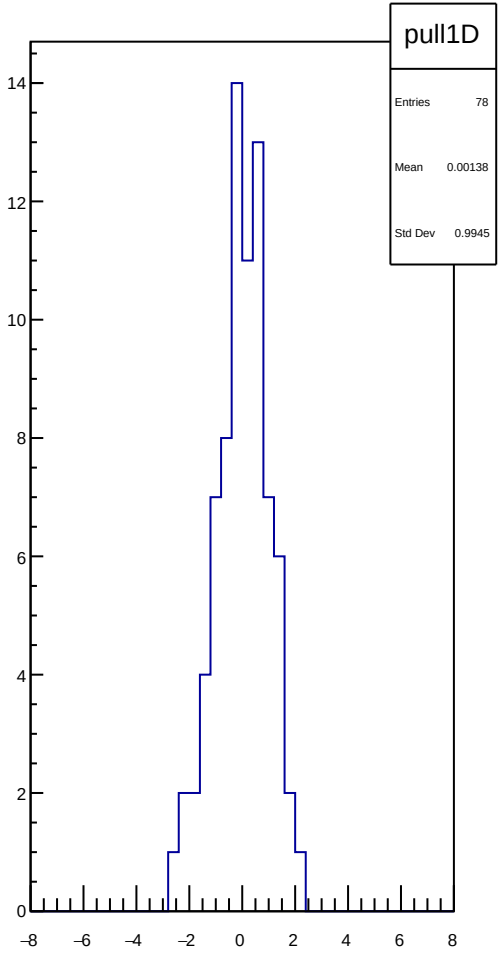

pull1D
Entries 78
Mean −0.3979
Std Dev 3.396
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

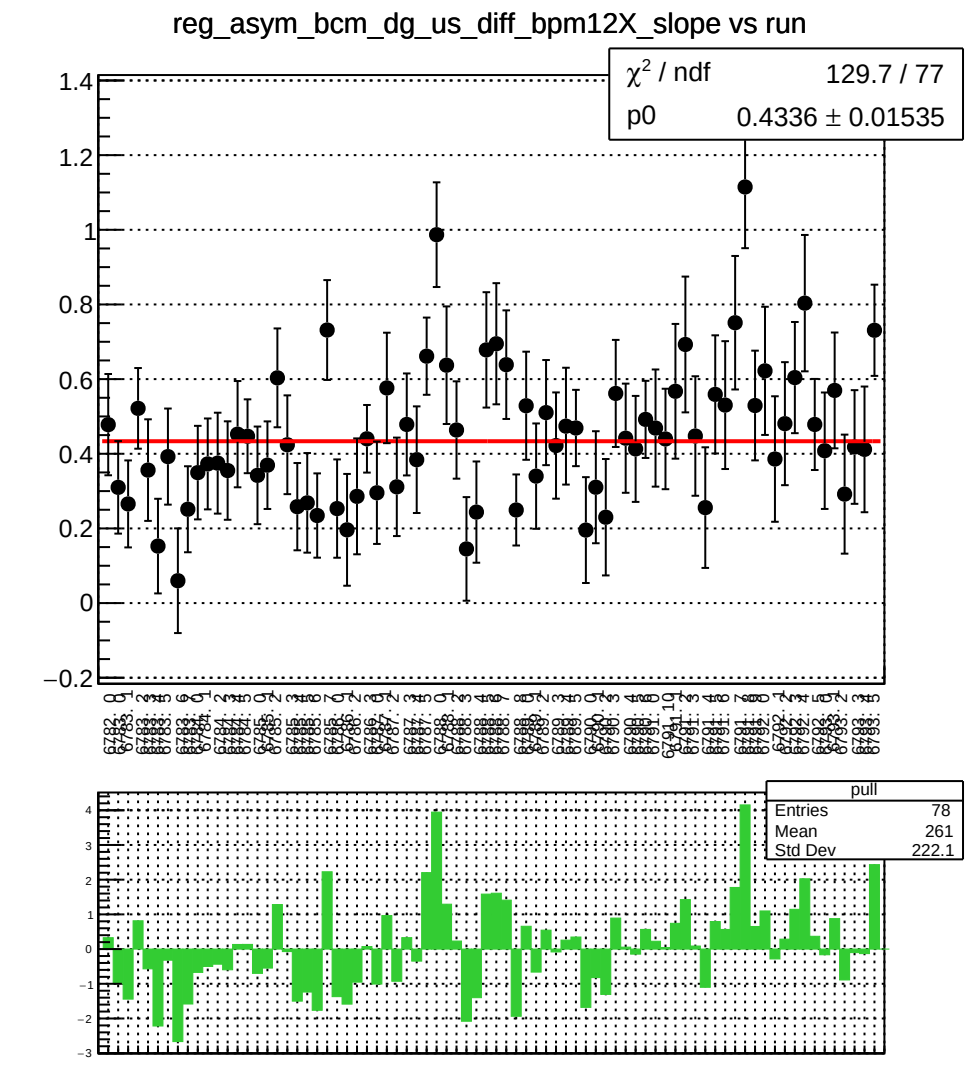

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 75.44 / 77
p0 0.4424 ± 0.1677
pull
Entries 78
Mean 221.8
Std Dev 219.4
pull1D
Entries 78
Mean −0.00779
Std Dev 0.9834

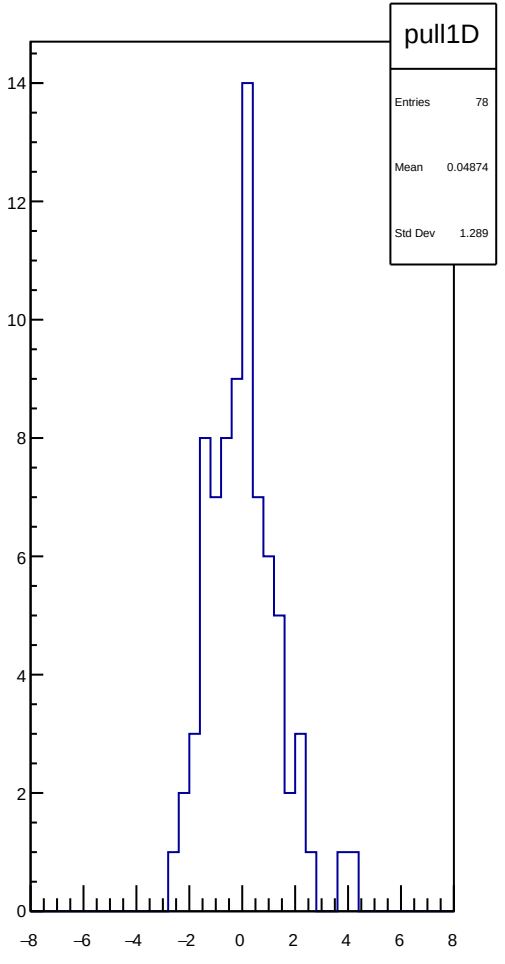

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 988.9 / 77
p0 47.98 ± 0.3275
pull
Entries 78
Mean 268.2
Std Dev 227.9

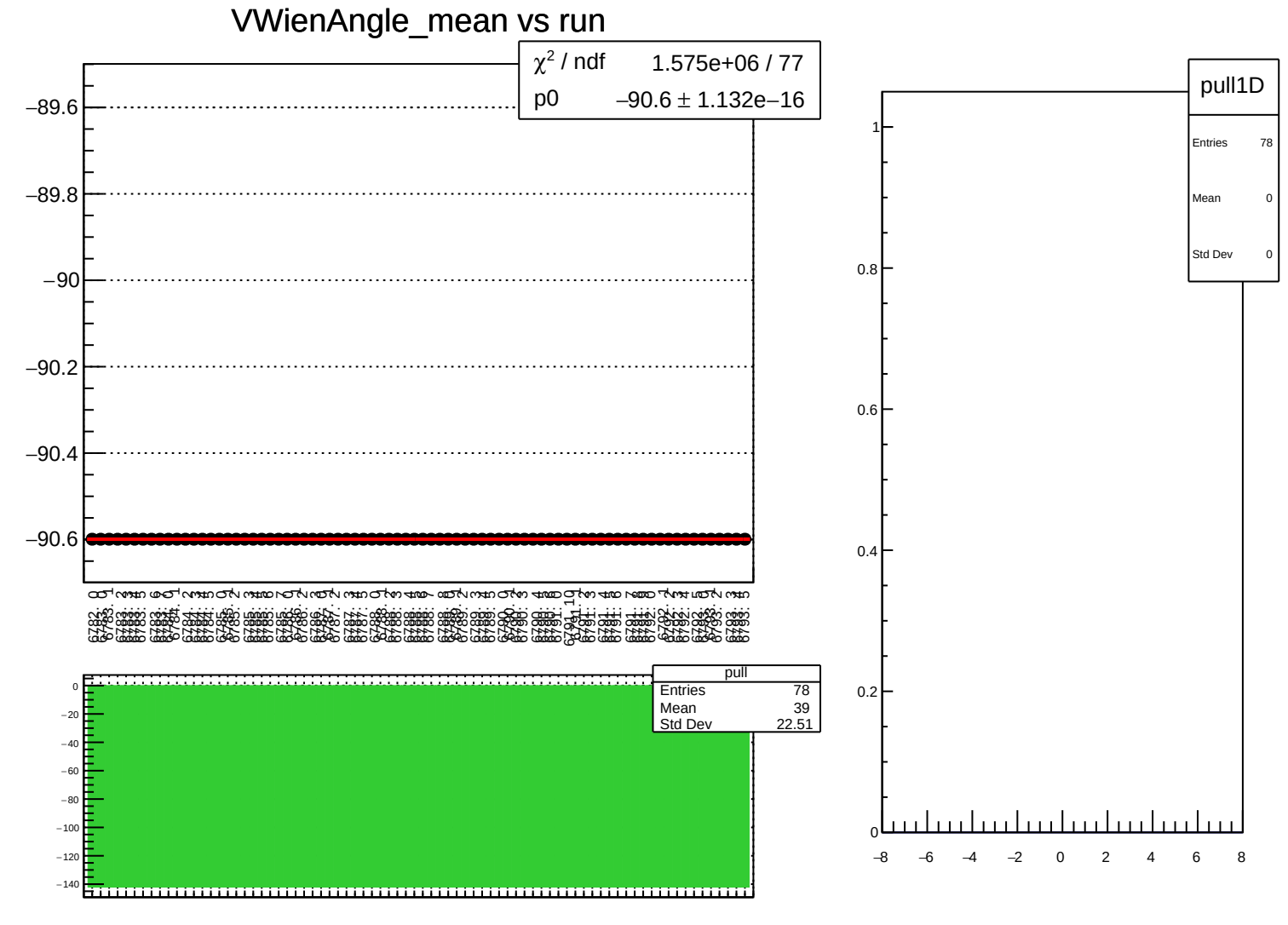

pull1D
Entries 78
Mean 0.4018
Std Dev 3.401

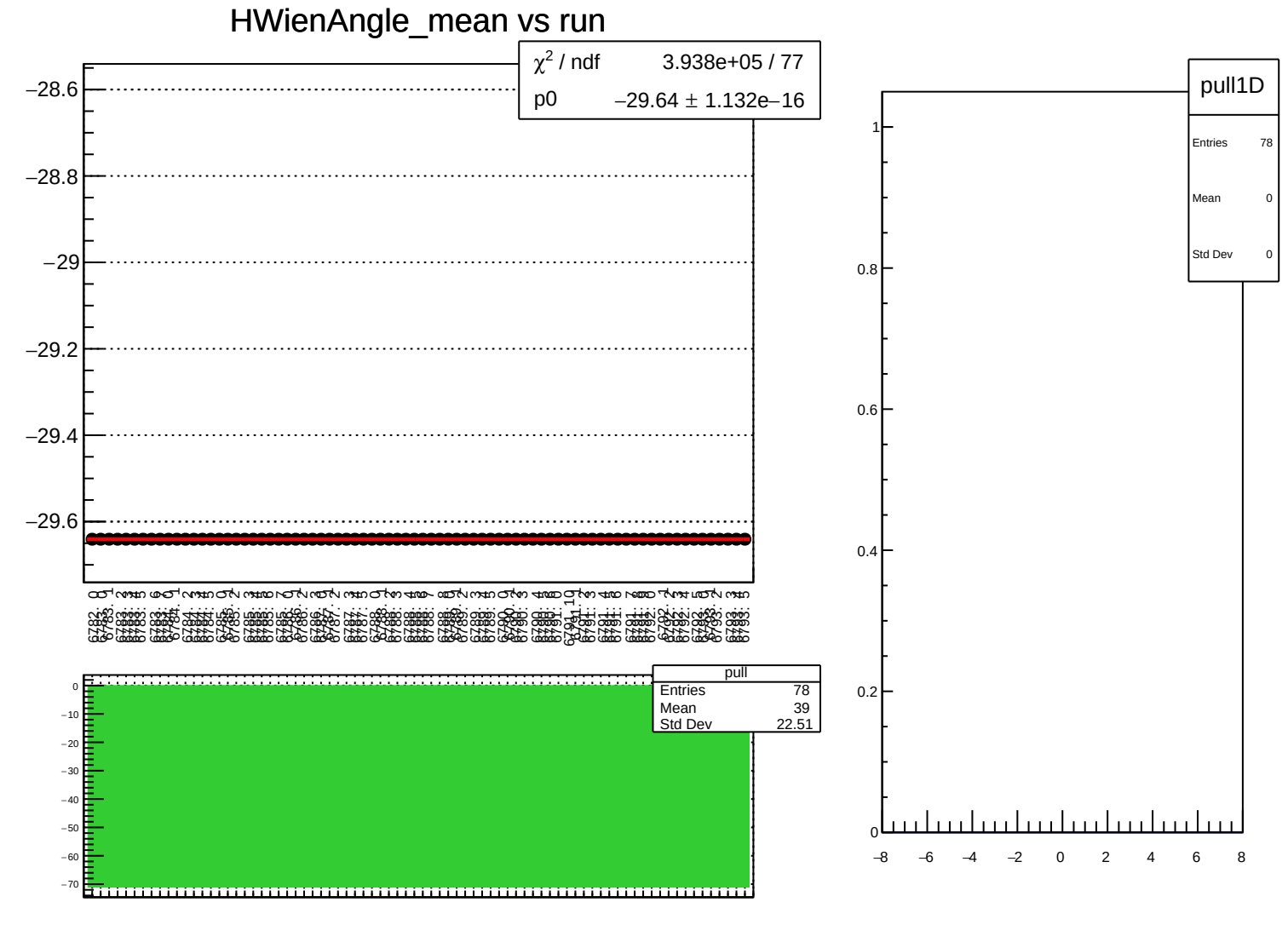

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 77.15 / 77
p0 −1.144 ± 0.23
pull
Entries 78
Mean −51.49
Std Dev 326.2

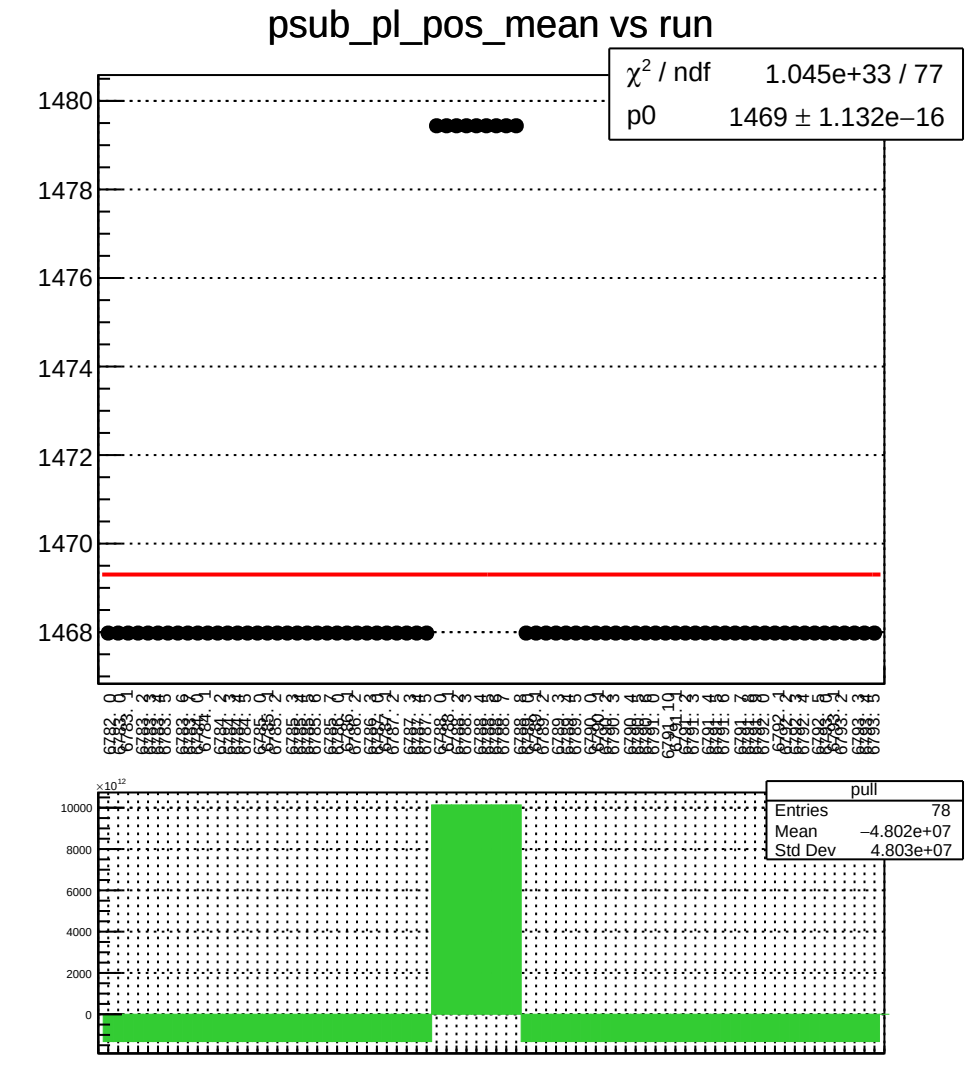

pull1D
Entries 78
Mean 0.00138
Std Dev 0.9945

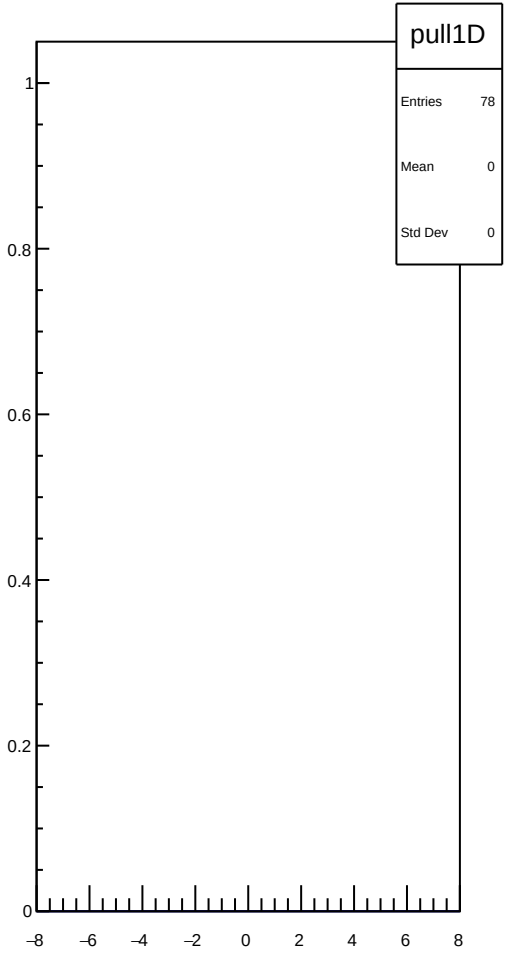

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 129.7 / 77
p0 0.4336 ± 0.01535
pull
Entries 78
Mean 261
Std Dev 222.1

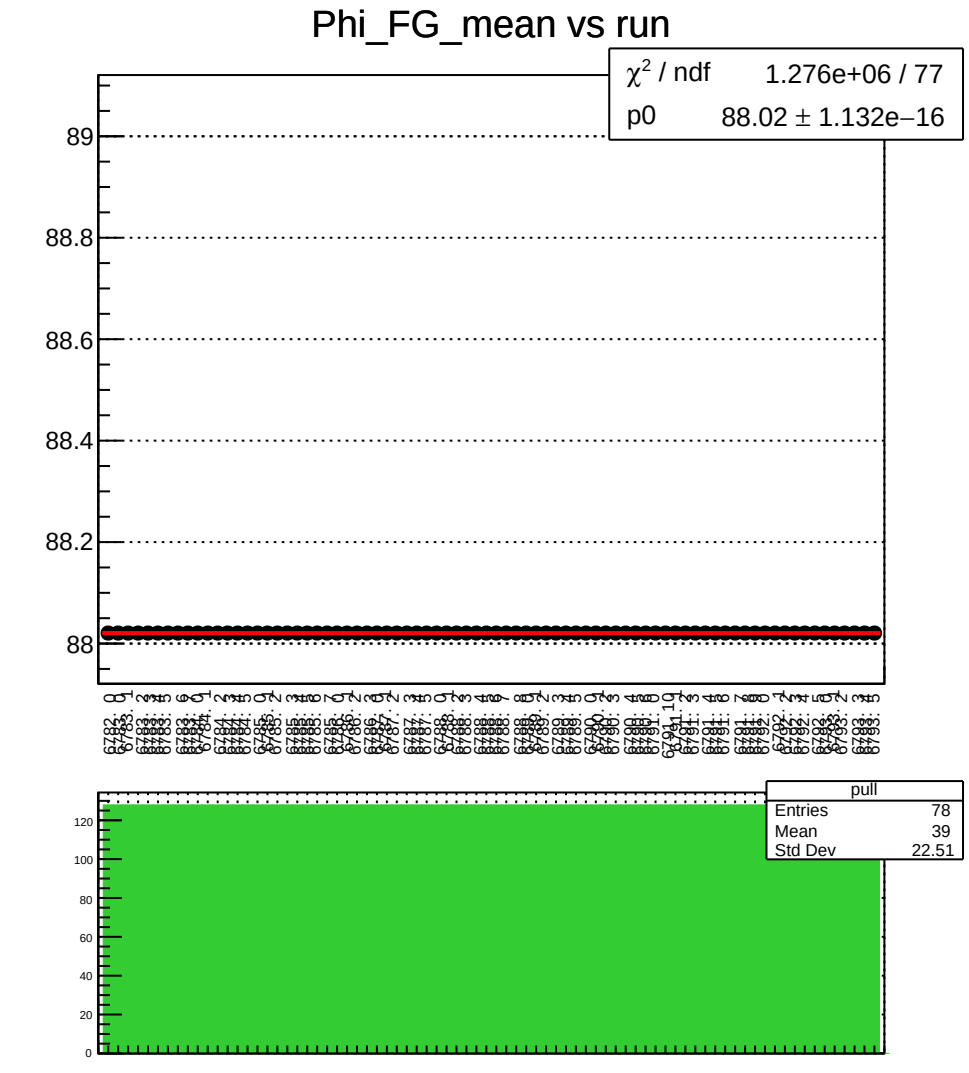

pull1D
Entries 78
Mean 0.04874
Std Dev 1.289

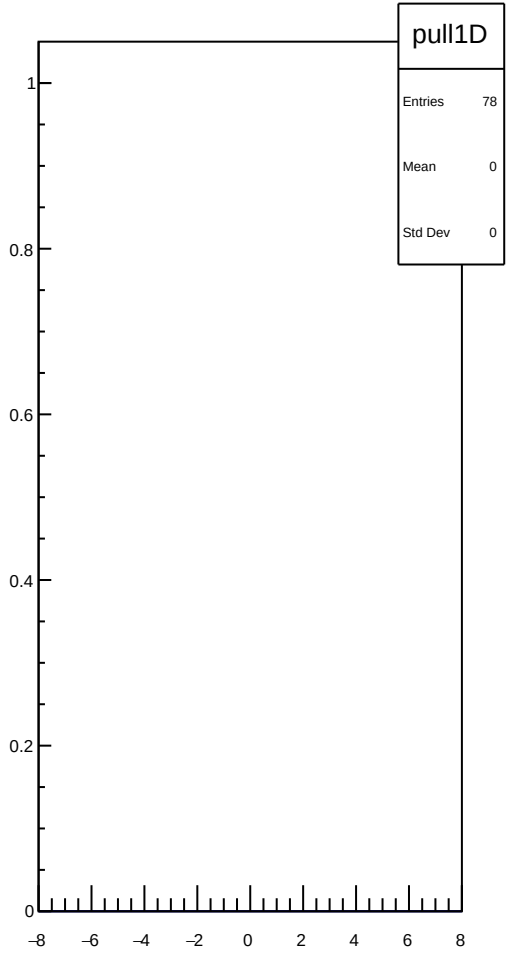

VWienAngle_mean vs run
χ² / ndf 1.575e+06 / 77
p0 −90.6 ± 1.132e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 78
Mean 39
Std Dev 22.51
0
−20
−40
−60
−80
−100
−120
−140
pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

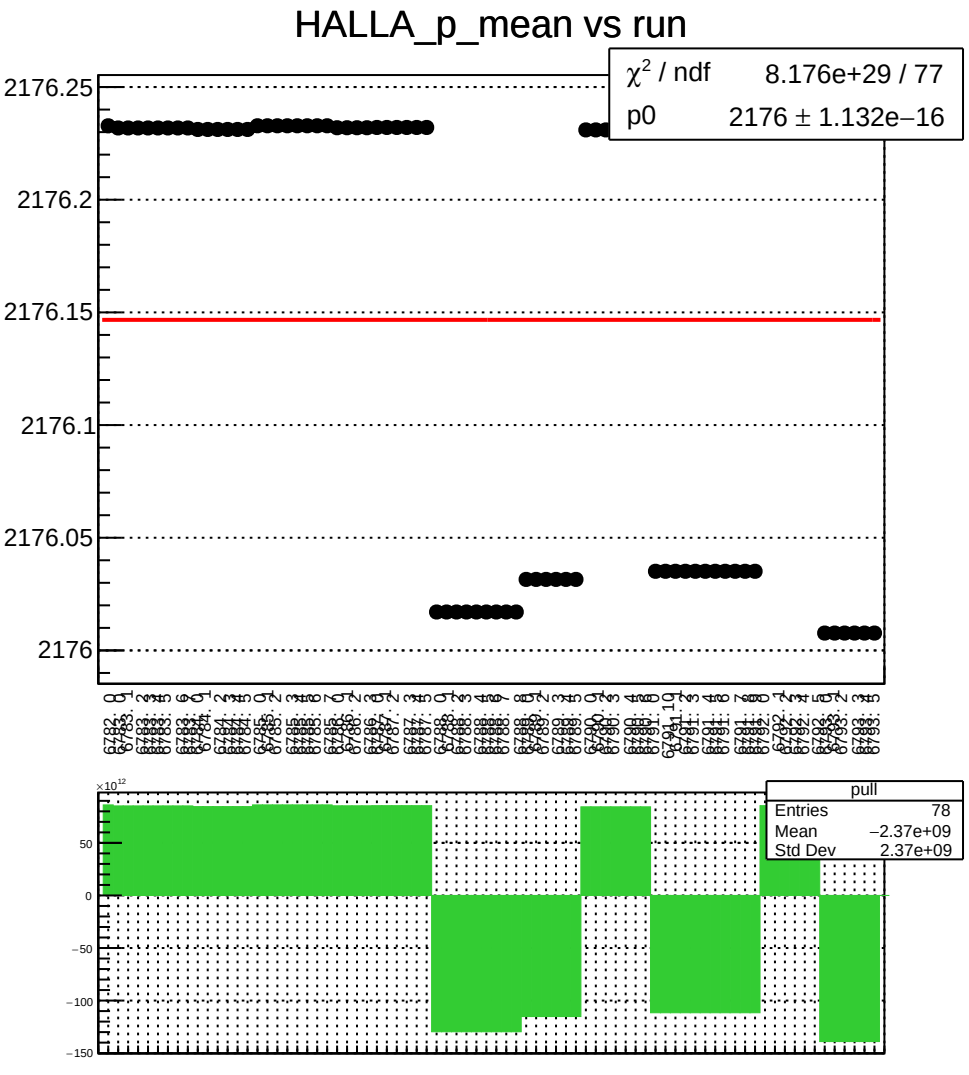

HWienAngle_mean vs run
χ² / ndf 3.938e+05 / 77
p0 −29.64 ± 1.132e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 78
Mean 39
Std Dev 22.51
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

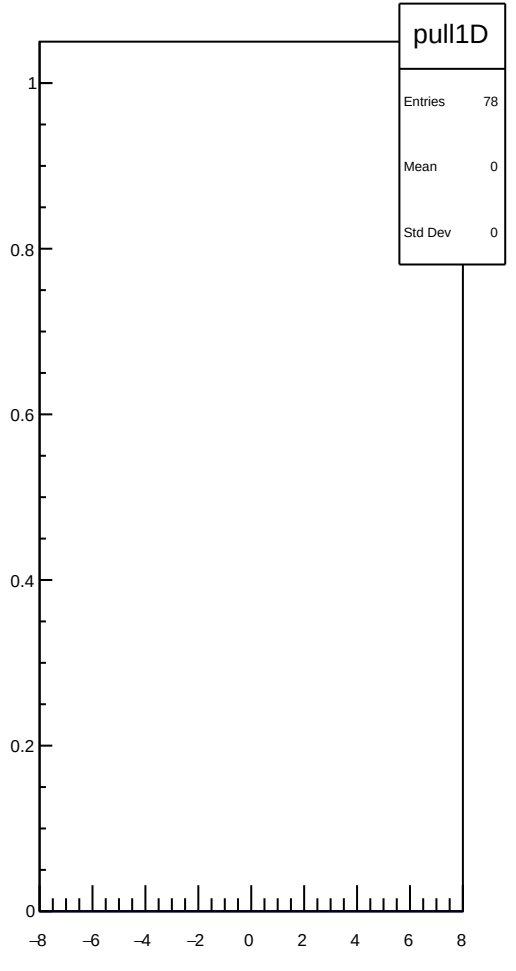

psub_pl_pos_mean vs run
χ² / ndf 1.045e+33 / 77
p0 1469 ± 1.132e−16
1480
1478
1476
1474
1472
1470
1468
pull
Entries 78
Mean −4.802e+07
Std Dev 4.803e+07
×10¹²
10000
8000
6000
4000
2000
0

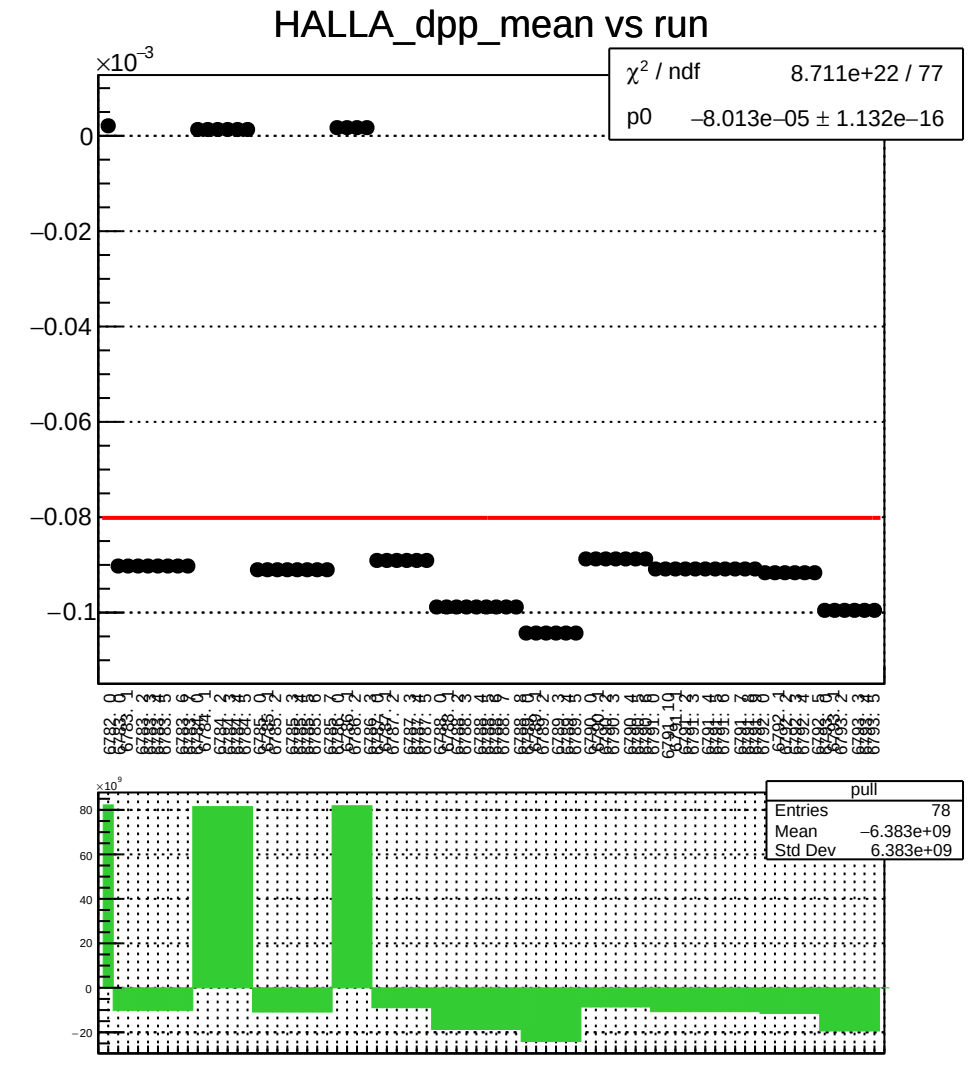

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

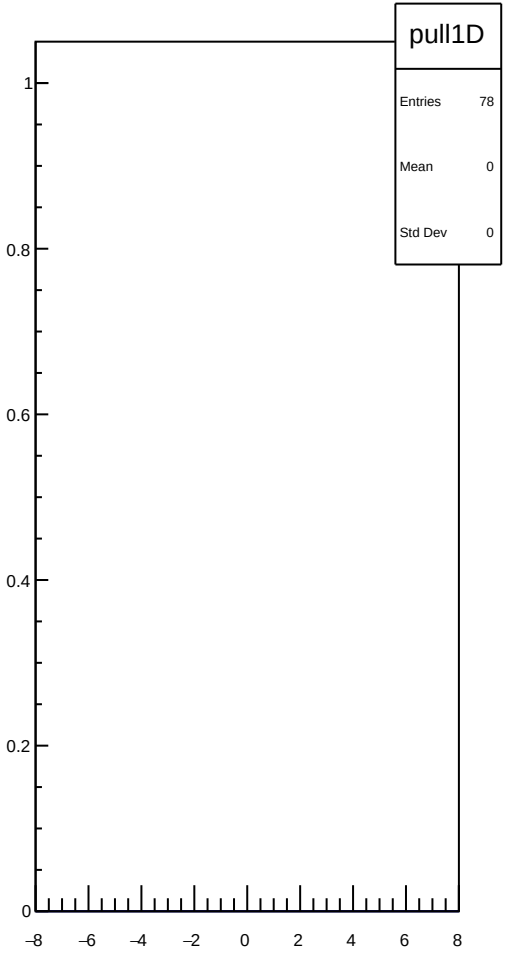

Phi_FG_mean vs run
χ² / ndf 1.276e+06 / 77
p0 88.02 ± 1.132e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 78
Mean 39
Std Dev 22.51
120
100
80
60
40
20
0


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

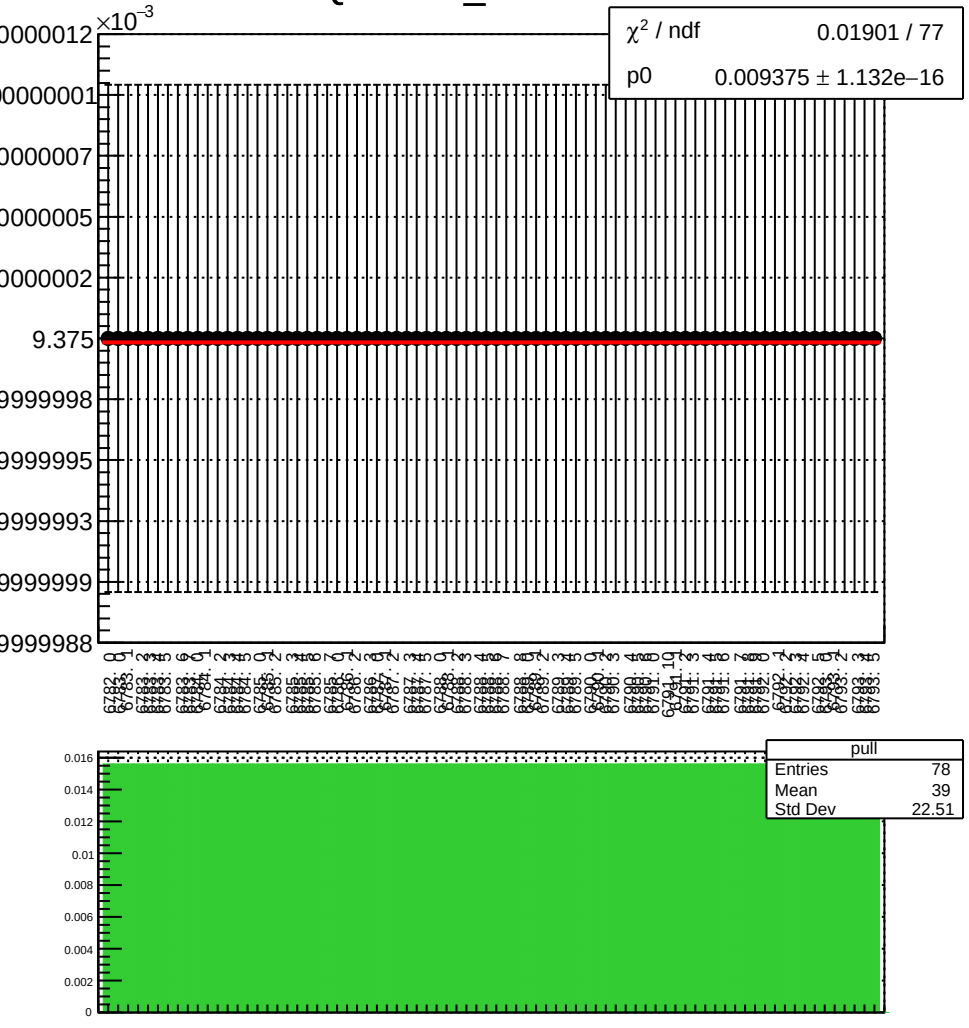

HALLA_p_mean vs run
χ² / ndf 8.176e+29 / 77
p0 2176 ± 1.132e−16
2176.25
2176.2
2176.15
2176.1
2176.05
2176
pull
Entries 78
Mean −2.37e+09
Std Dev 2.37e+09
×10¹²
50
0
−50
−100
−150

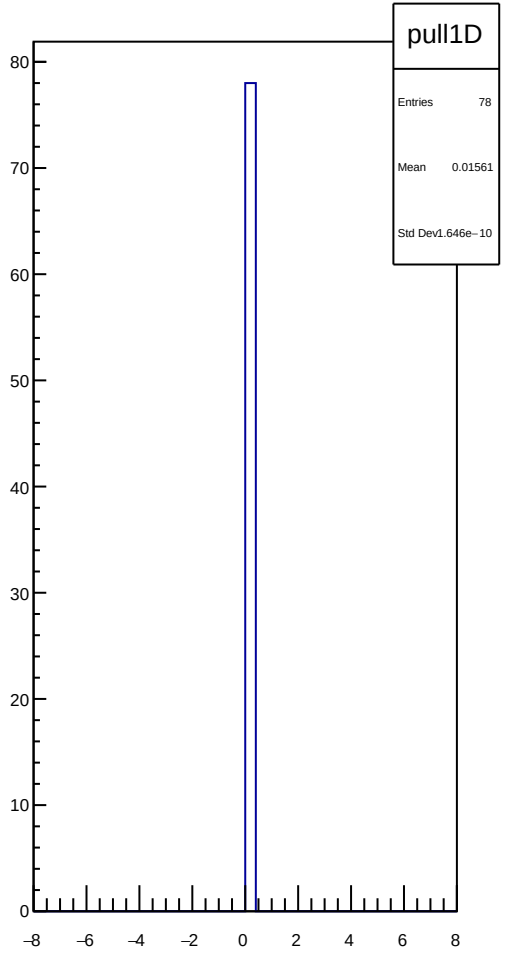

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

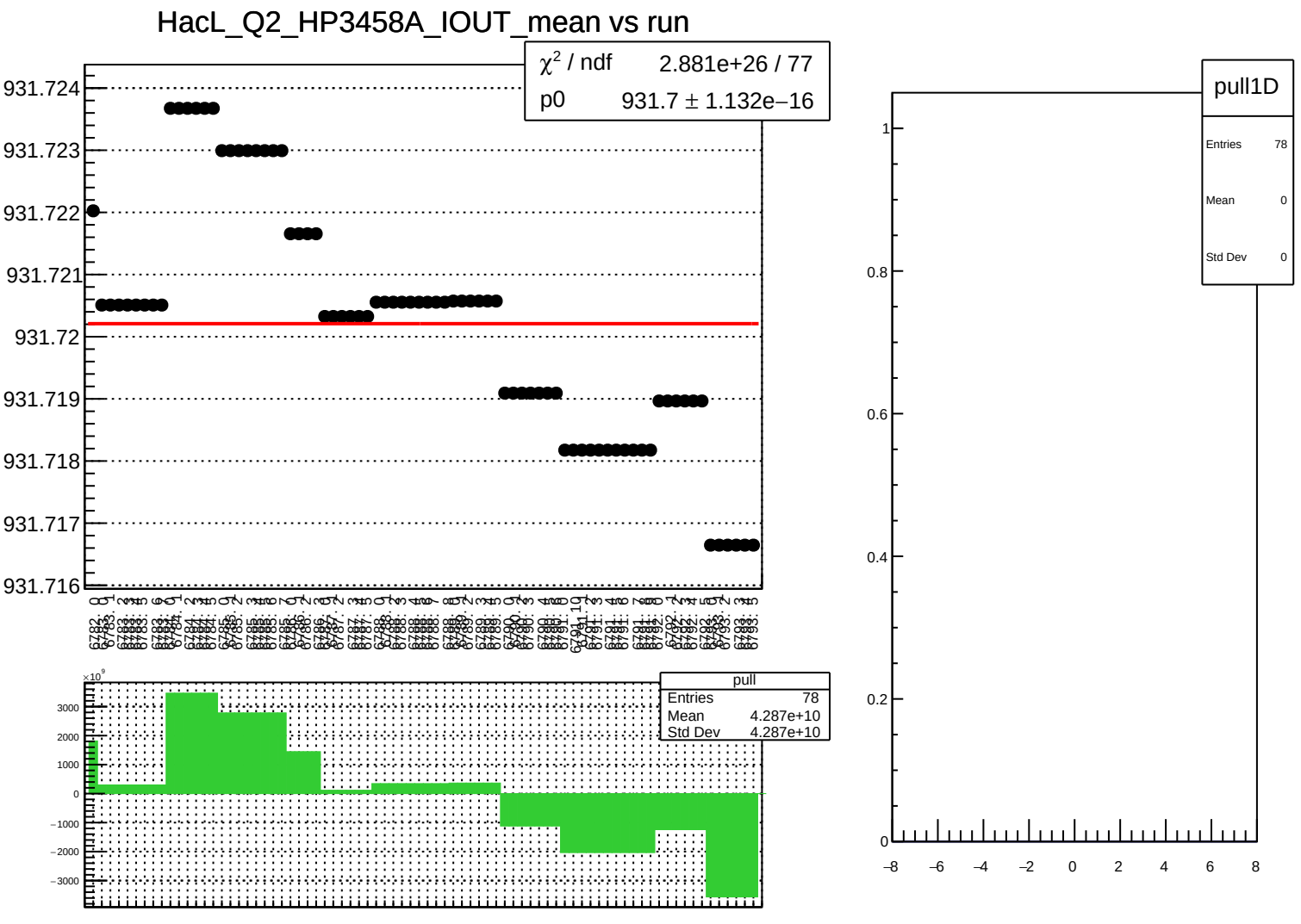

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 8.711e+22 / 77
p0 −8.013e−05 ± 1.132e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
pull
Entries 78
Mean −6.383e+09
Std Dev 6.383e+09
80
60
40
20
0
−20

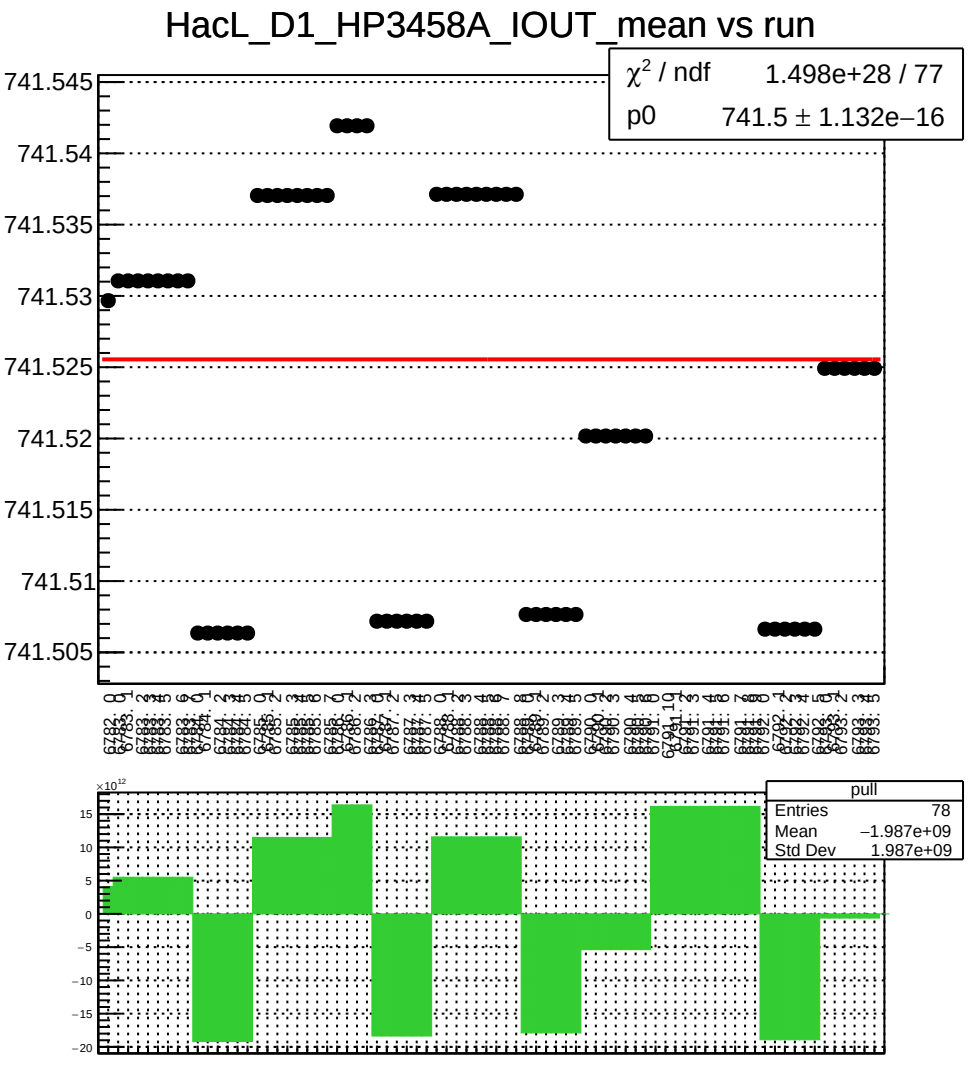

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

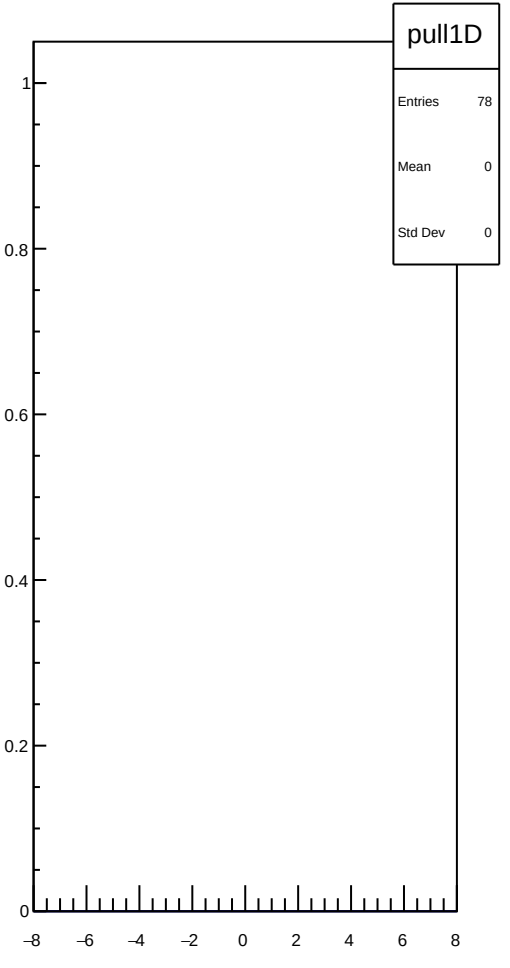
MQ171LM_mean vs run

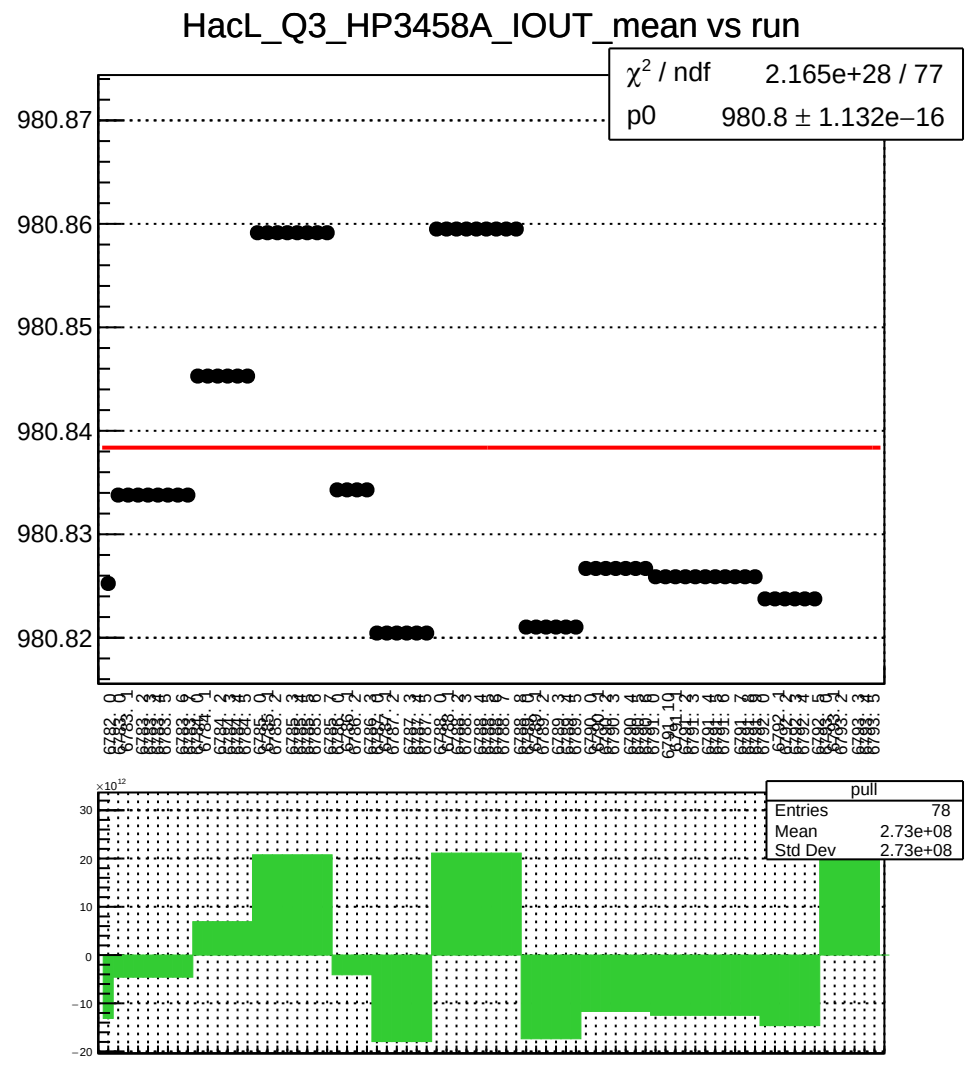


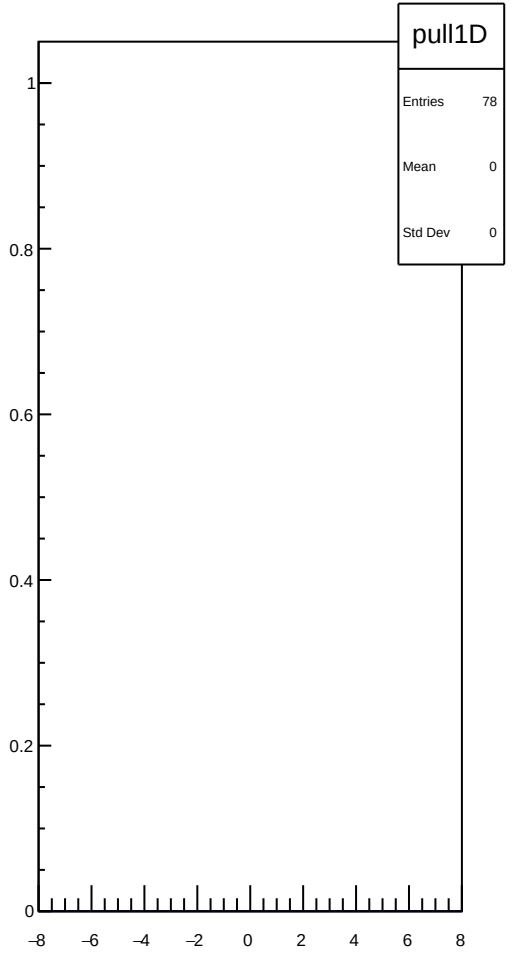


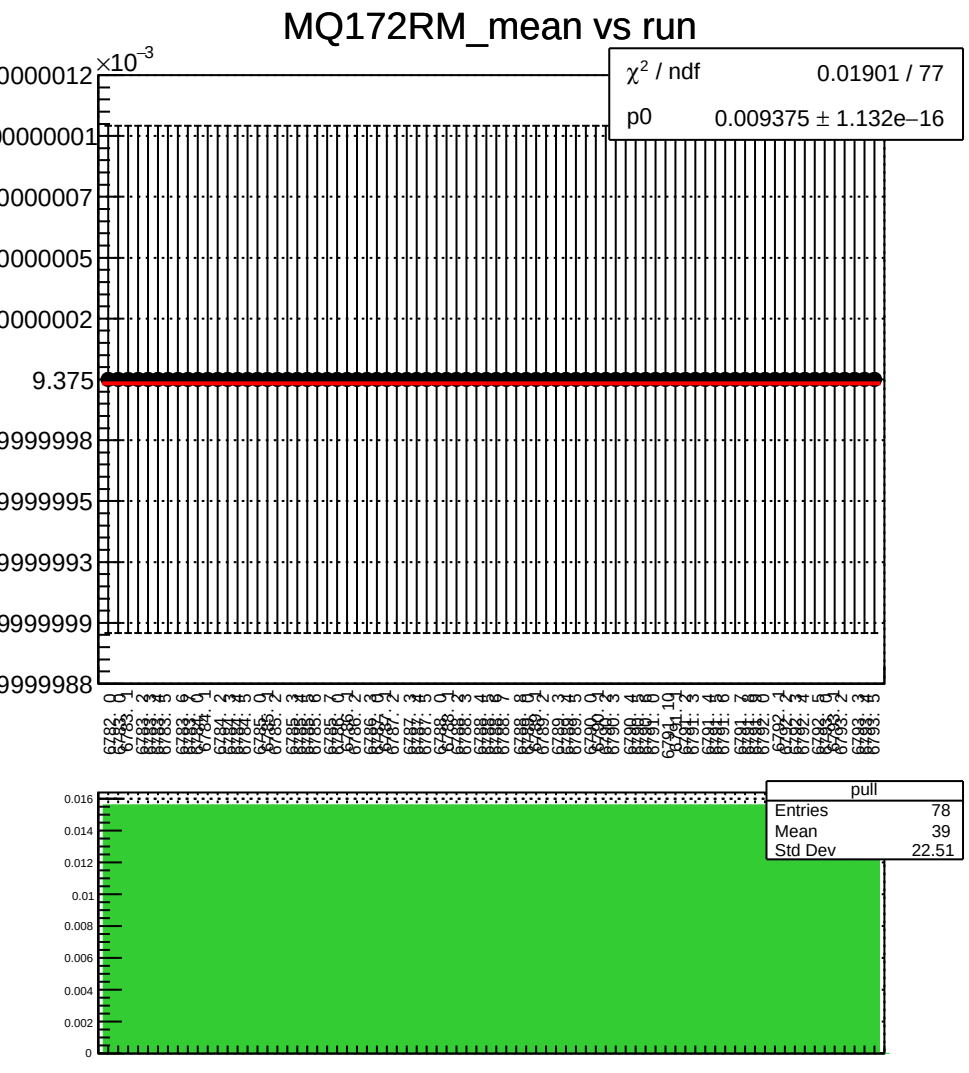

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.881e+26 / 77
p0 931.7 ± 1.132e−16
931.724
931.723
931.722
931.721
931.72
931.719
931.718
931.717
931.716
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 78
Mean 4.287e+10
Std Dev 4.287e+10
pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

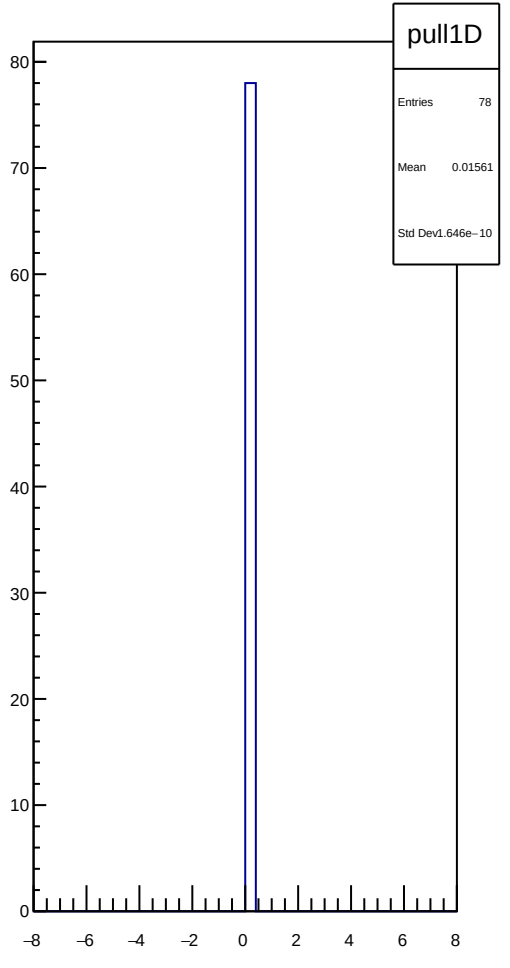

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.498e+28 / 77
p0 741.5 ± 1.132e−16
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
741.505
pull
Entries 78
Mean −1.987e+09
Std Dev 1.987e+09
×10¹²
15
10
5
0
−5
−10
−15
−20

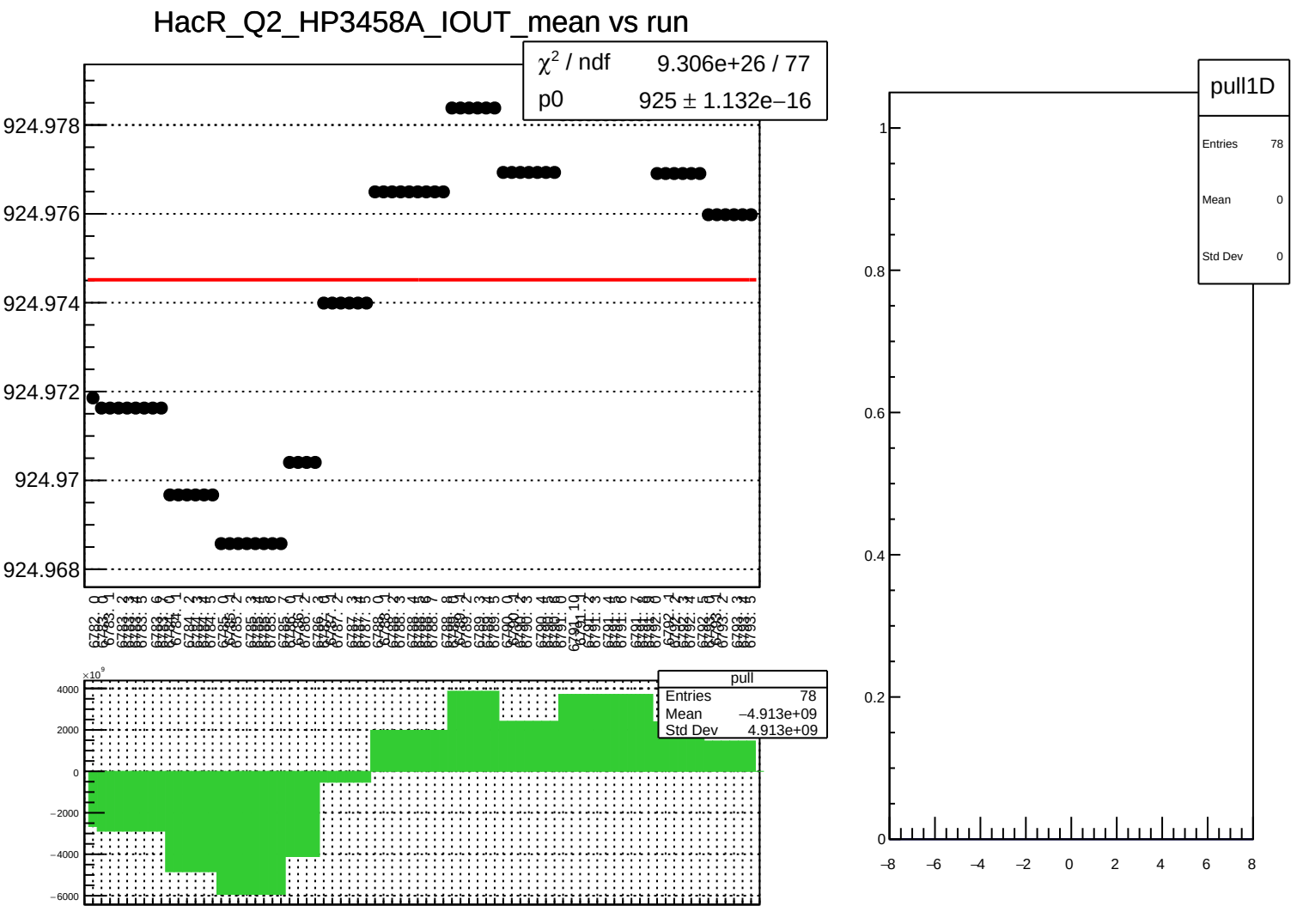

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

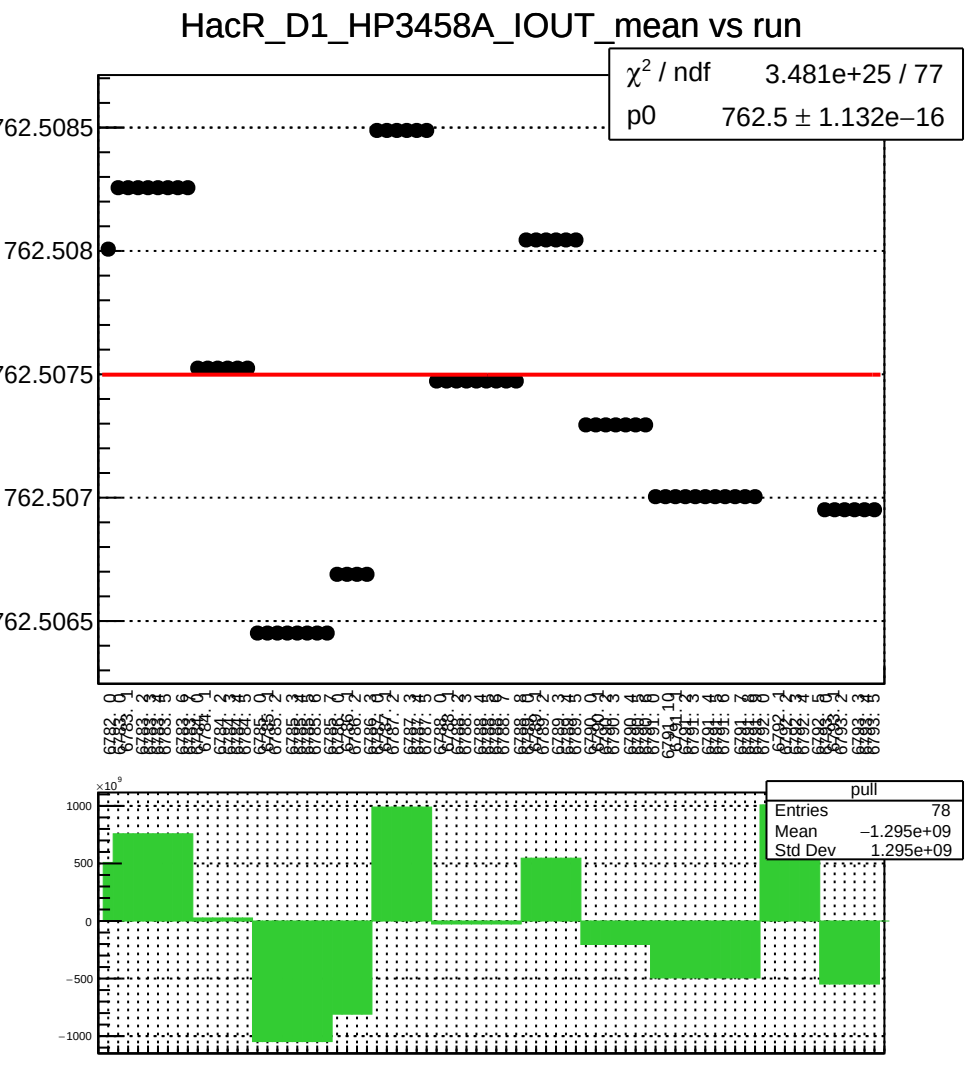

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.165e+28 / 77
p0 980.8 ± 1.132e−16
980.87
980.86
980.85
980.84
980.83
980.82
pull
Entries 78
Mean 2.73e+08
Std Dev 2.73e+08
×10¹²
30
20
10
0
−10
−20

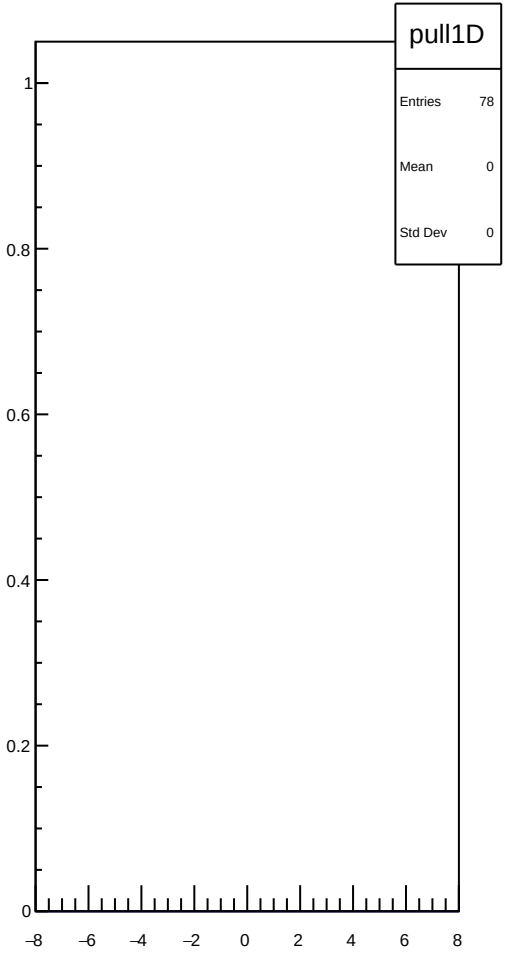

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

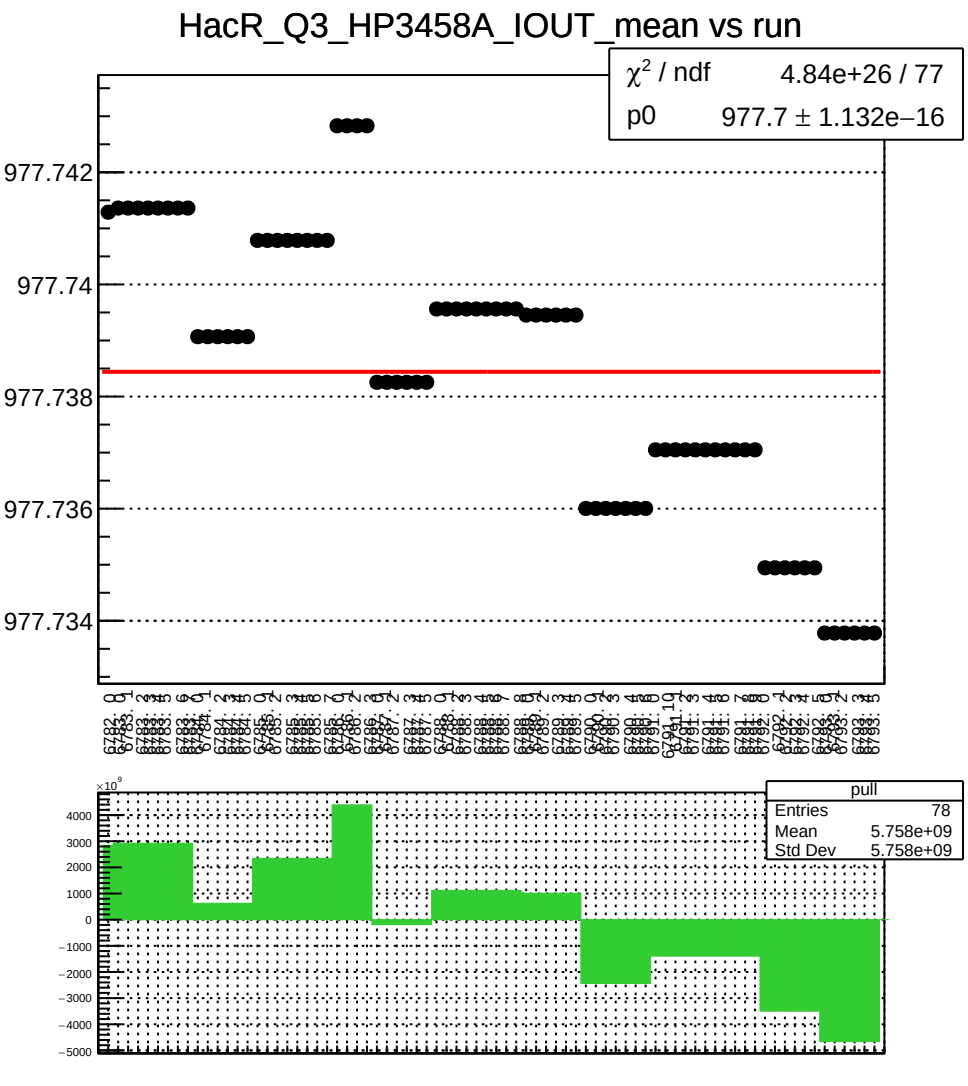

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.01901 / 77
p0 0.009375 ± 1.132e−16
9.375
pull
Entries 78
Mean 39
Std Dev 22.51

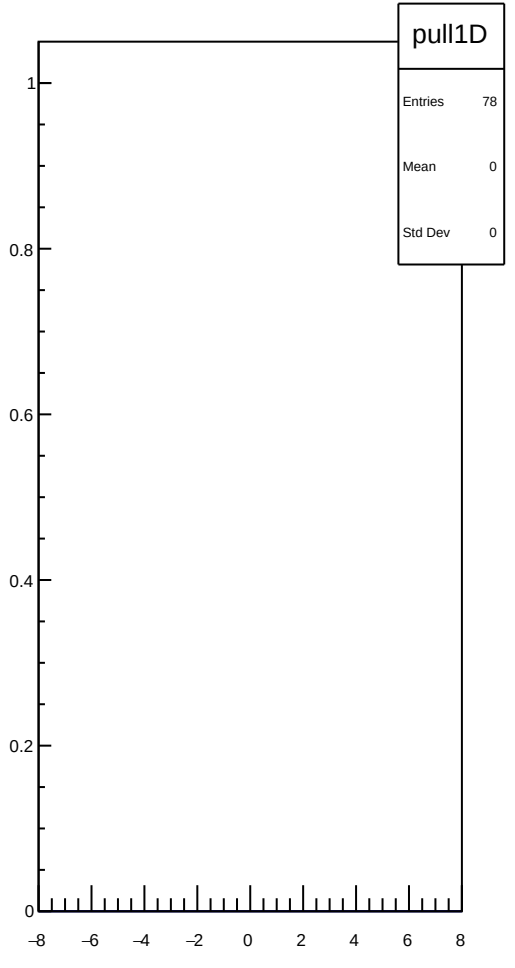

pull1D
Entries 78
Mean 0.01561
Std Dev1.646e−10

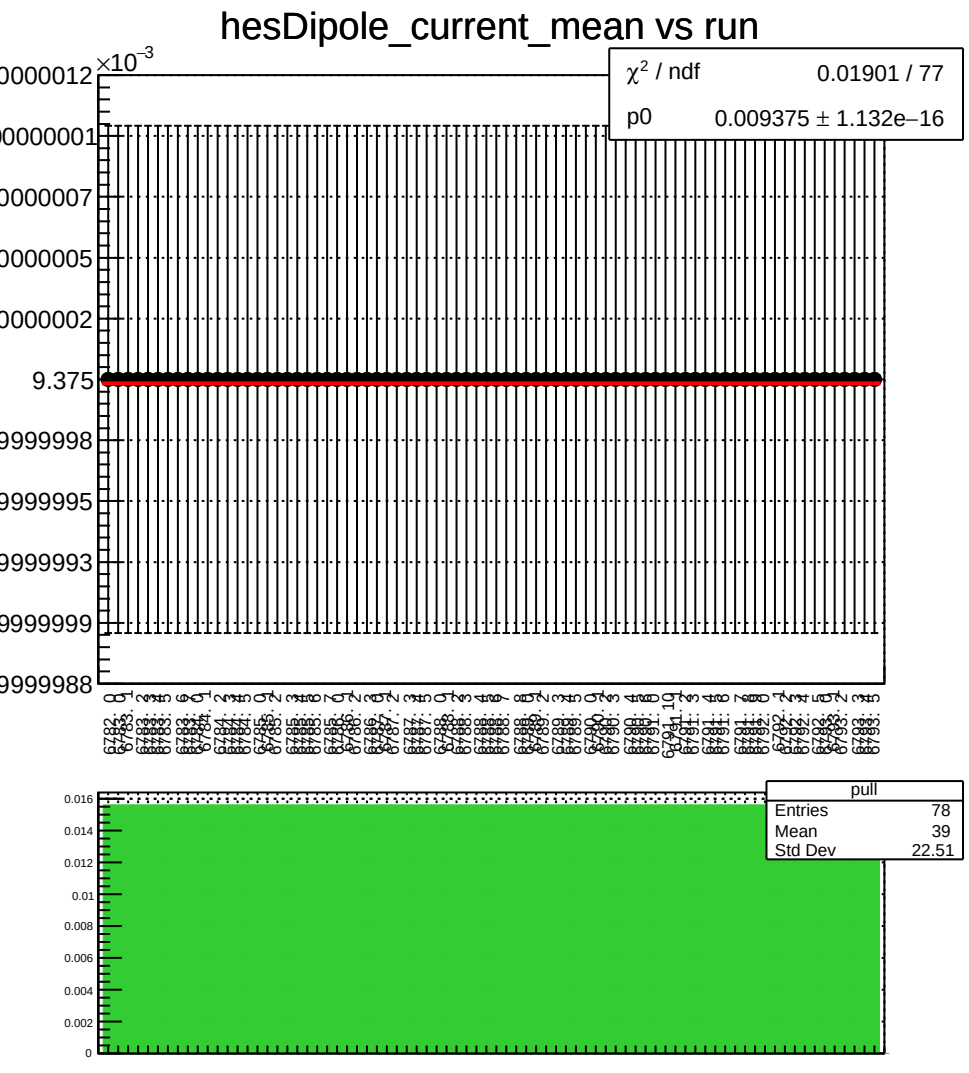

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 9.306e+26 / 77
p0 925 ± 1.132e−16
924.978
924.976
924.974
924.972
924.97
924.968
pull
Entries 78
Mean −4.913e+09
Std Dev 4.913e+09
×10⁹
4000
2000
0
−2000
−4000
−6000
pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

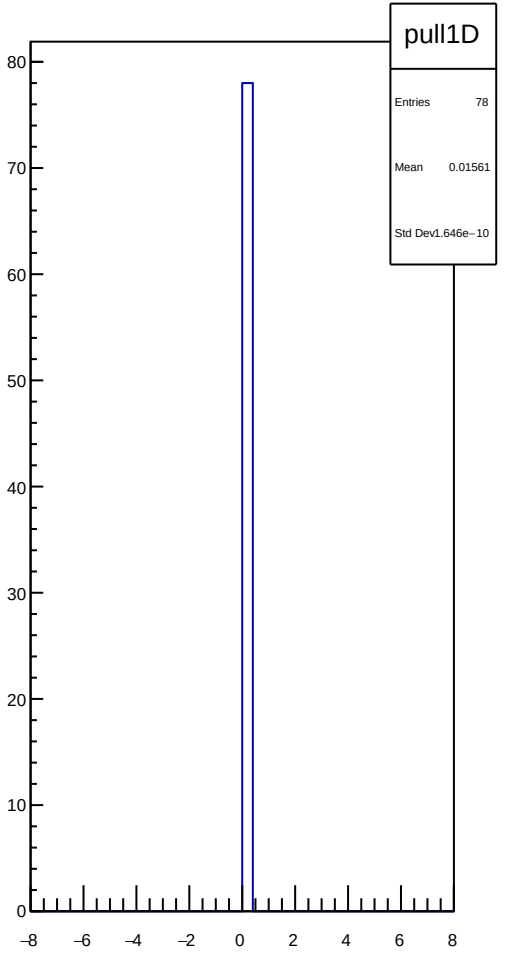

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.481e+25 / 77
p0 762.5 ± 1.132e−16
762.5085
762.508
762.5075
762.507
762.5065
×10⁹
1000
500
0
−500
−1000
pull
Entries 78
Mean −1.295e+09
Std Dev 1.295e+09

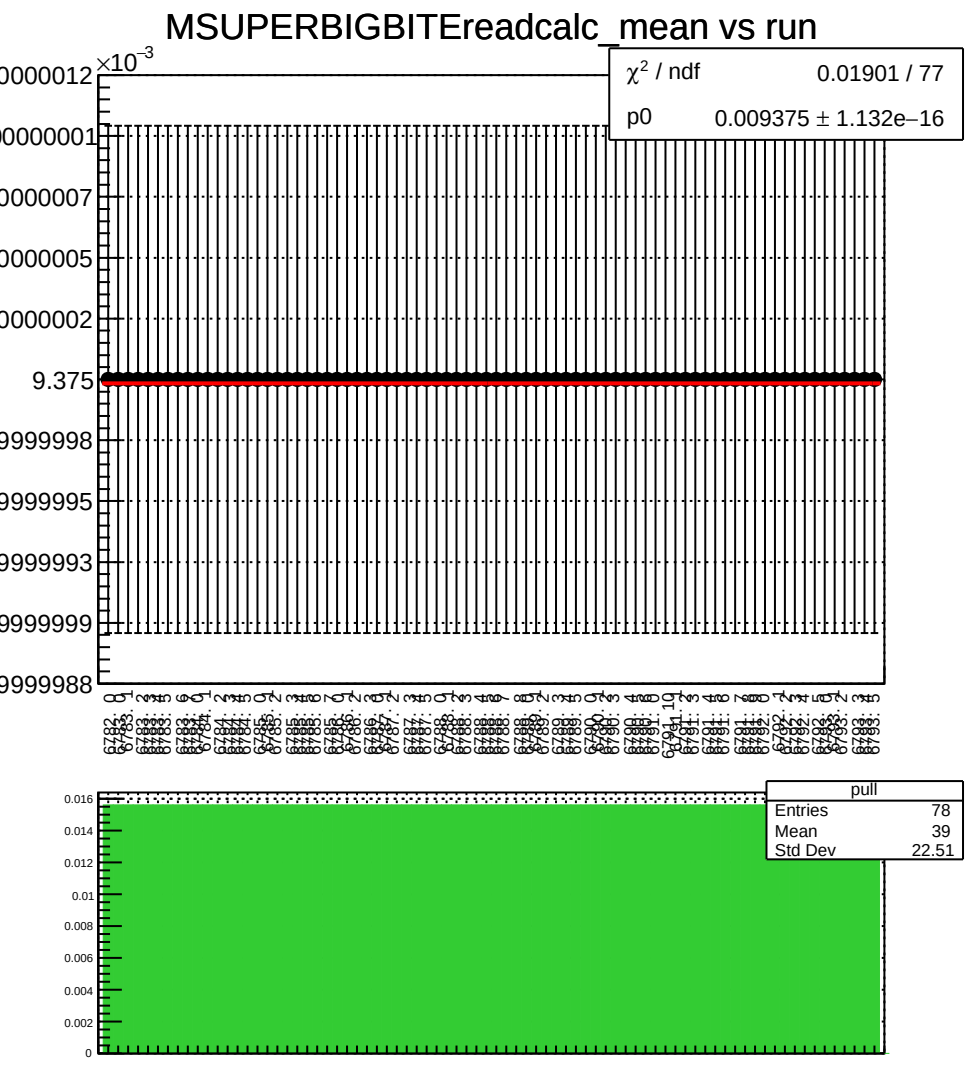

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

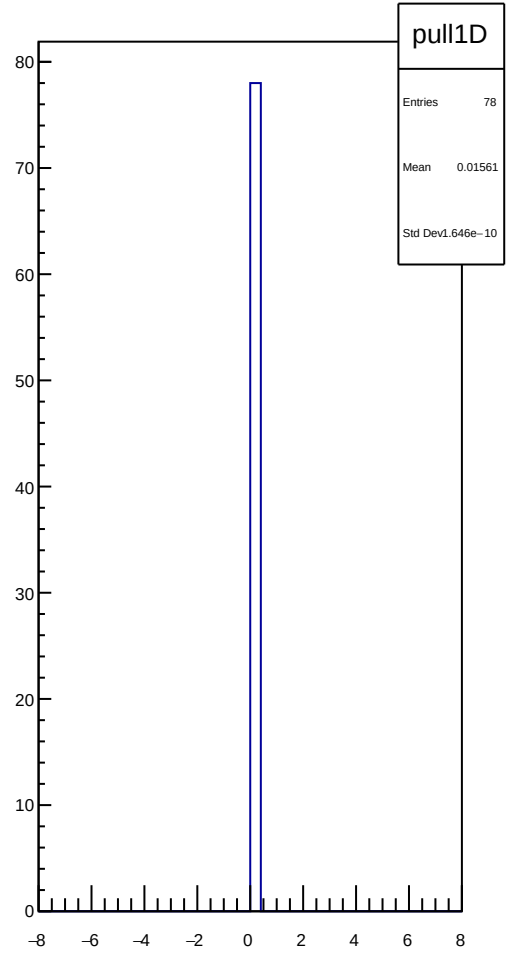

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 4.84e+26 / 77
p0 977.7 ± 1.132e−16
977.742
977.74
977.738
977.736
977.734
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 78
Mean 5.758e+09
Std Dev 5.758e+09

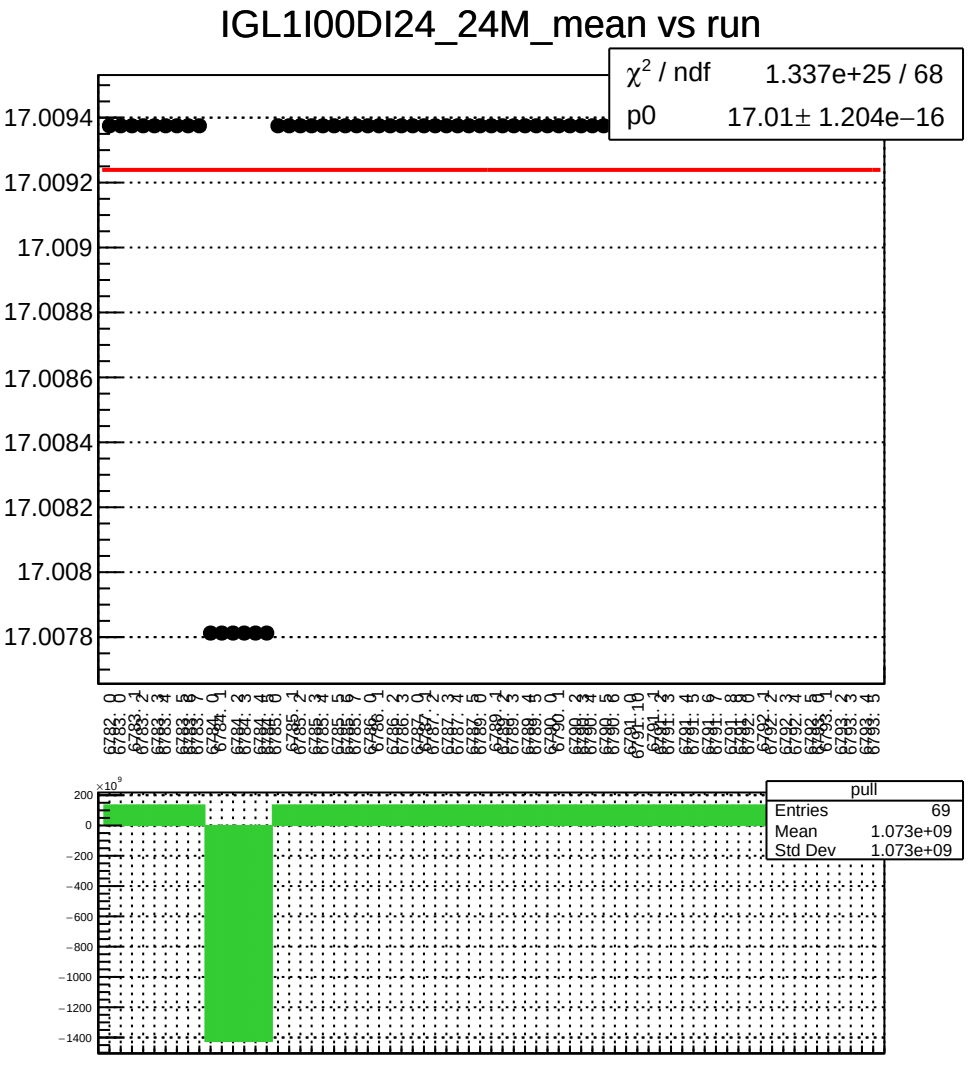

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

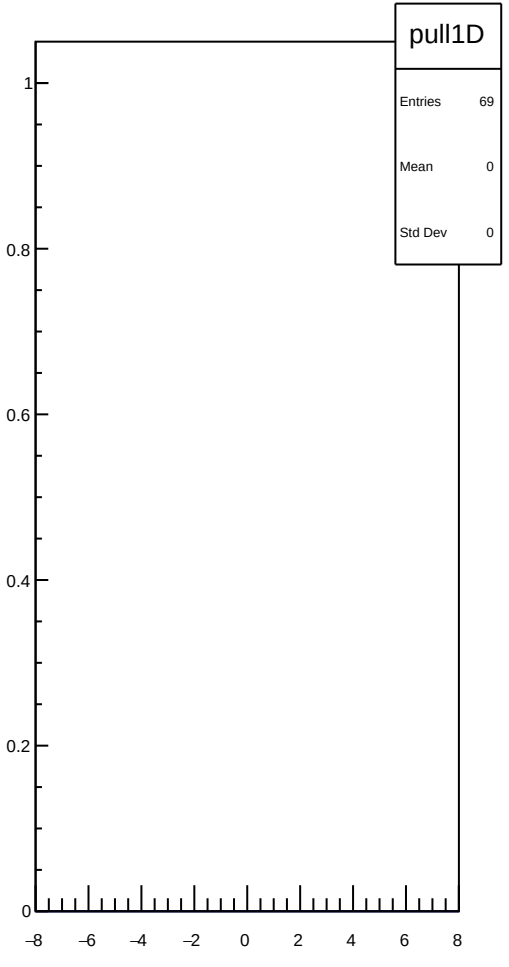

hesDipole_current_mean vs run
χ² / ndf 0.01901 / 77
p0 0.009375 ± 1.132e−16
×10⁻³
pull
Entries 78
Mean 39
Std Dev 22.51

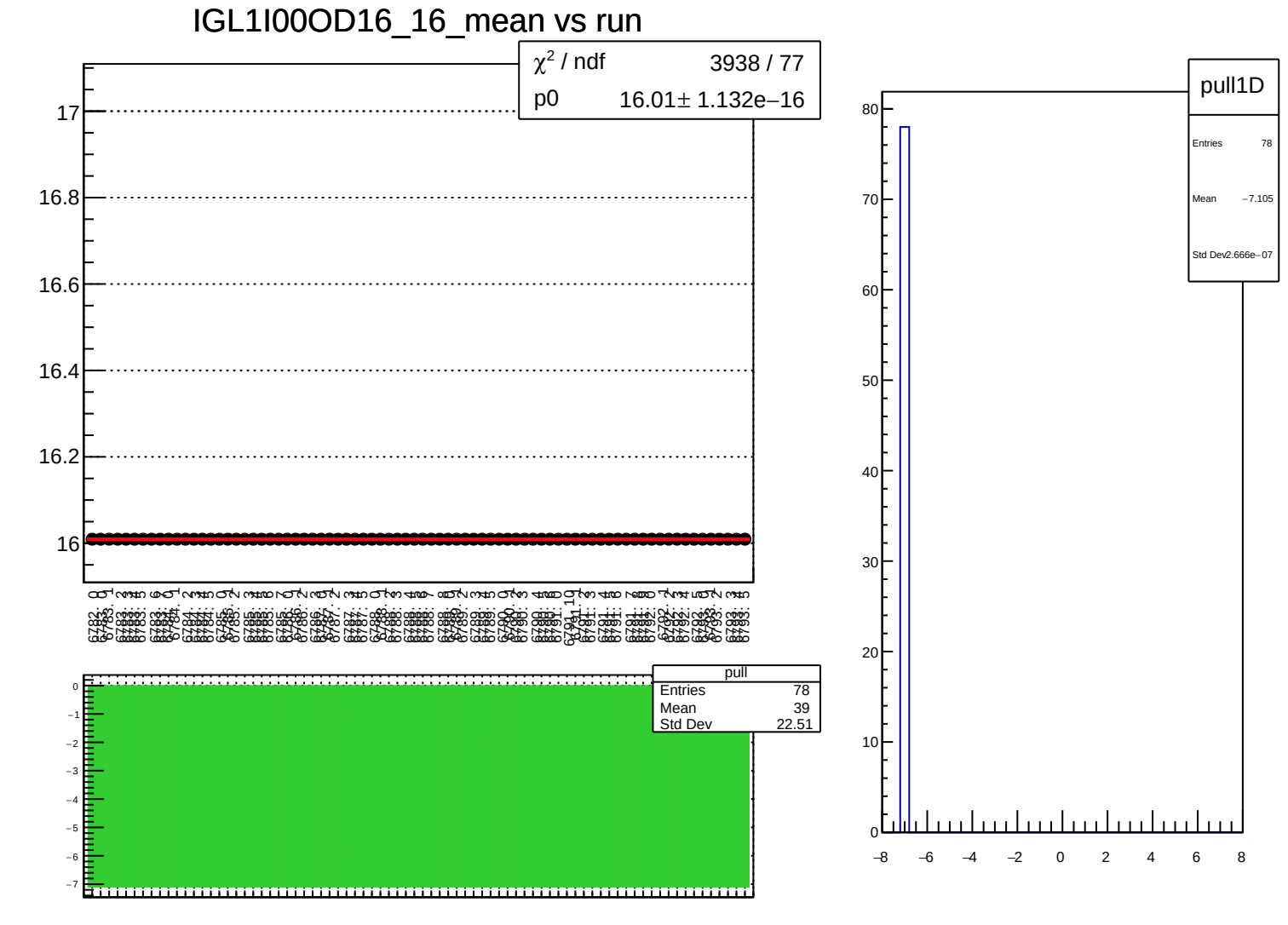

pull1D
Entries 78
Mean 0.01561
Std Dev1.646e−10

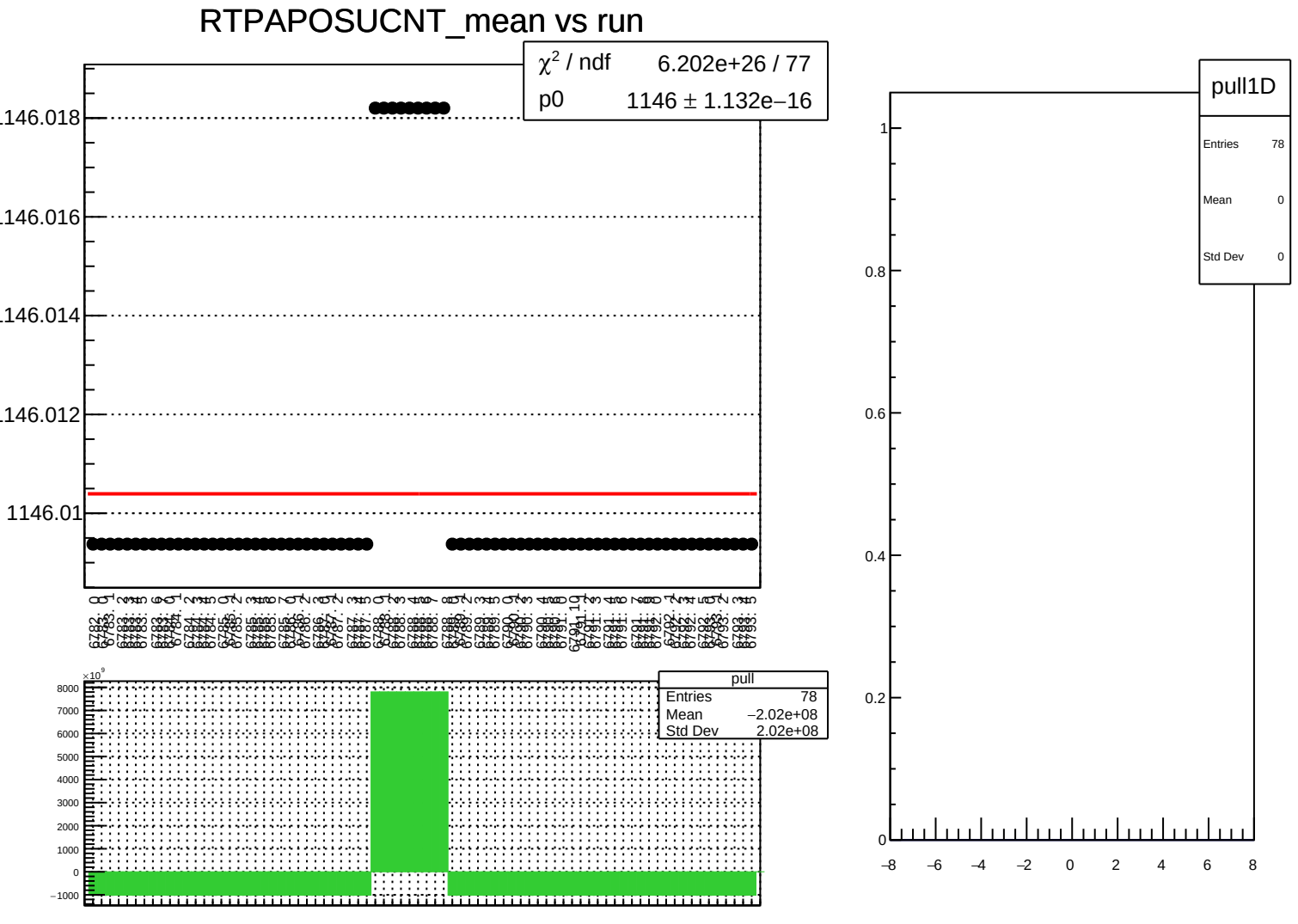

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.01901 / 77
p0 0.009375 ± 1.132e−16
×10⁻³
pull
Entries 78
Mean 39
Std Dev 22.51

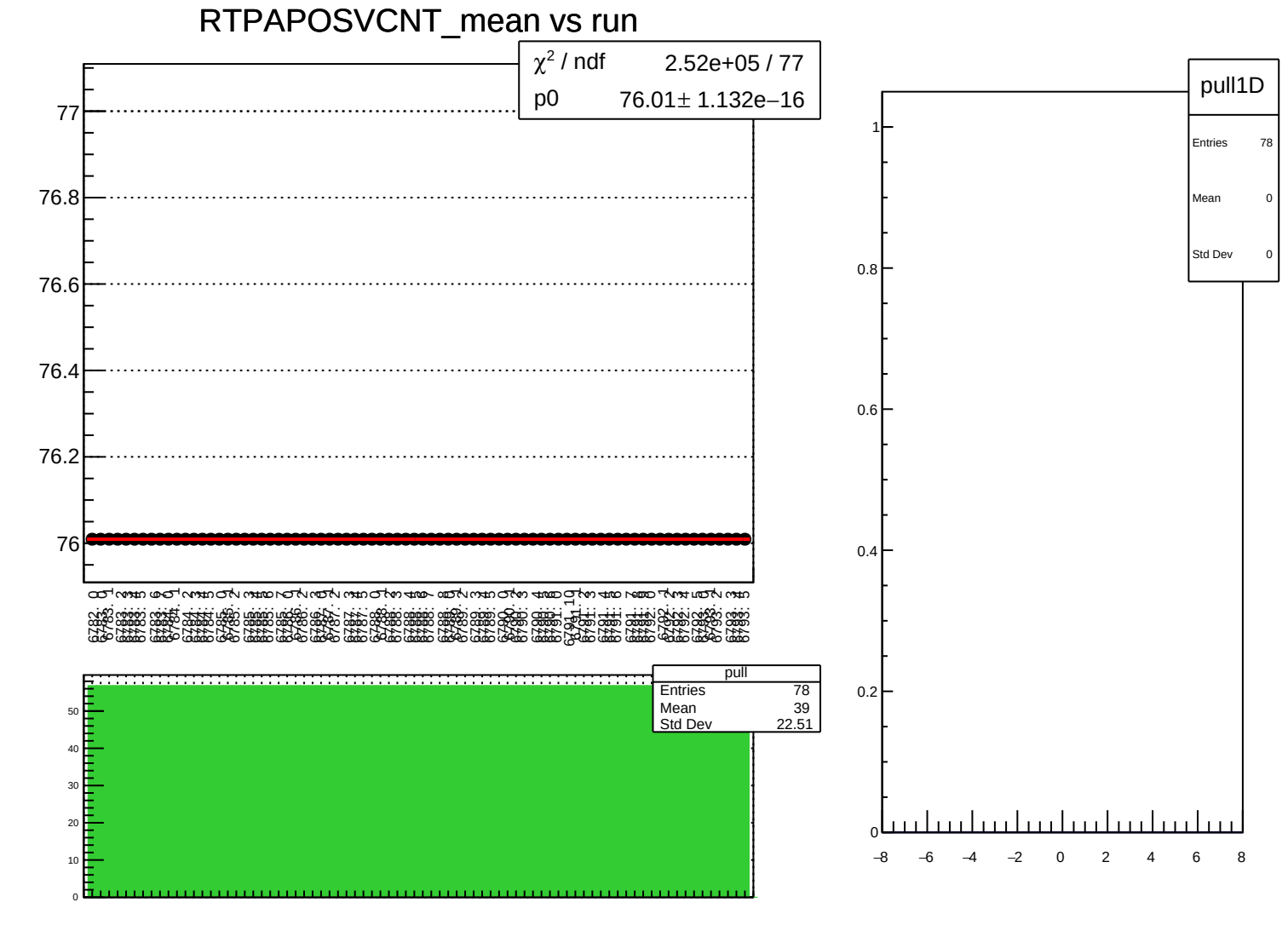

pull1D
Entries 78
Mean 0.01561
Std Dev1.646e−10


IGL1I00DI24_24M_mean vs run
χ² / ndf 1.337e+25 / 68
p0 17.01± 1.204e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 69
Mean 1.073e+09
Std Dev 1.073e+09
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400


pull1D
Entries 69
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 3938 / 77
p0 16.01± 1.132e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 78
Mean 39
Std Dev 22.51
0
−1
−2
−3
−4
−5
−6
−7
pull1D
Entries 78
Mean −7.105
Std Dev 2.666e−07
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 6.202e+26 / 77
p0 1146 ± 1.132e−16
1146.018
1146.016
1146.014
1146.012
1146.01
pull
Entries 78
Mean −2.02e+08
Std Dev 2.02e+08
×10⁹
8000
7000
6000
5000
4000
3000
2000
1000
0
−1000
pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 2.52e+05 / 77
p0 76.01± 1.132e−16
77
76.8
76.6
76.4
76.2
76
pull
Entries 78
Mean 39
Std Dev 22.51
50
40
30
20
10
0
pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8