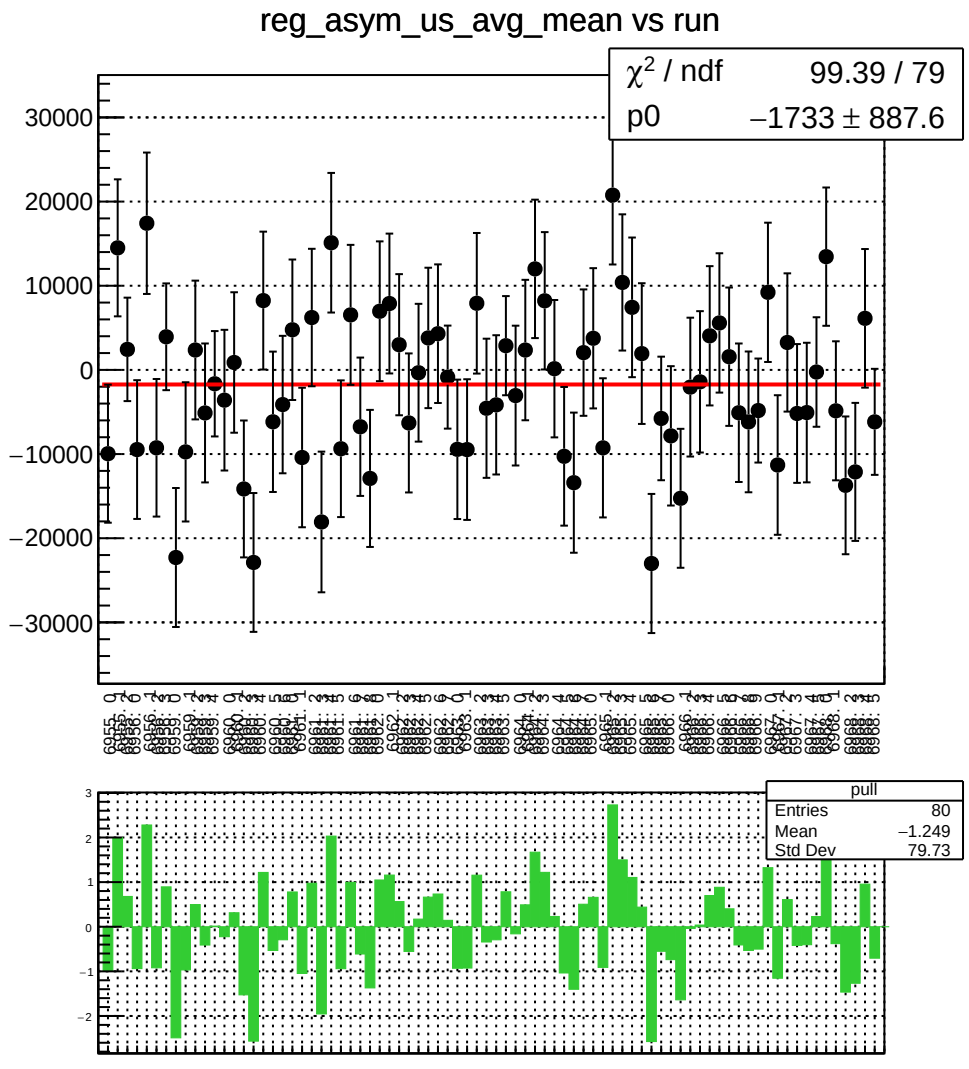
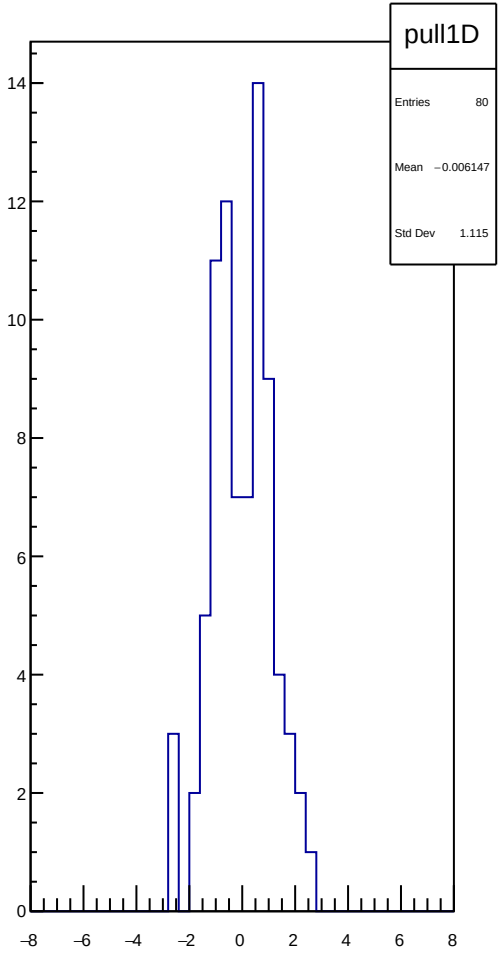
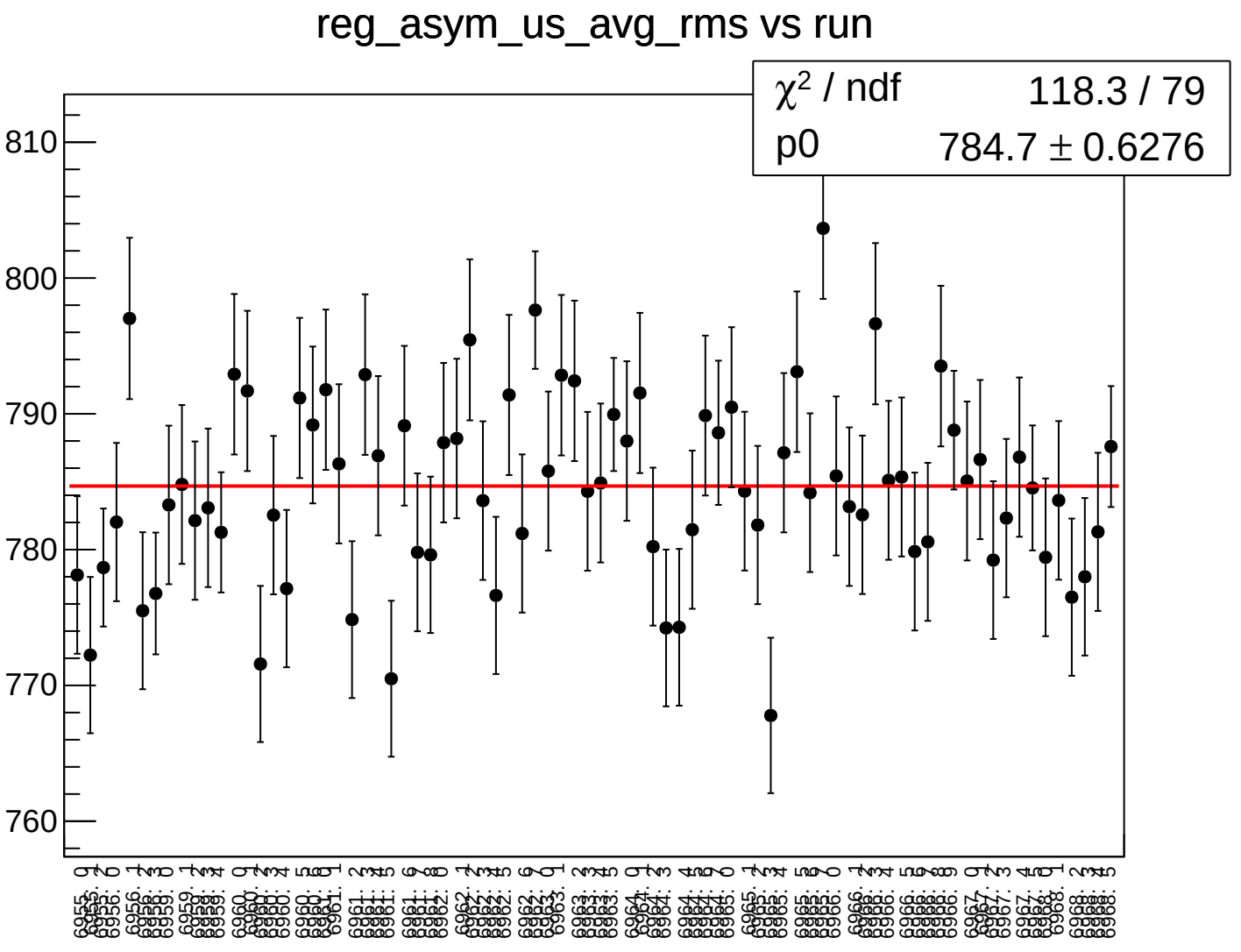
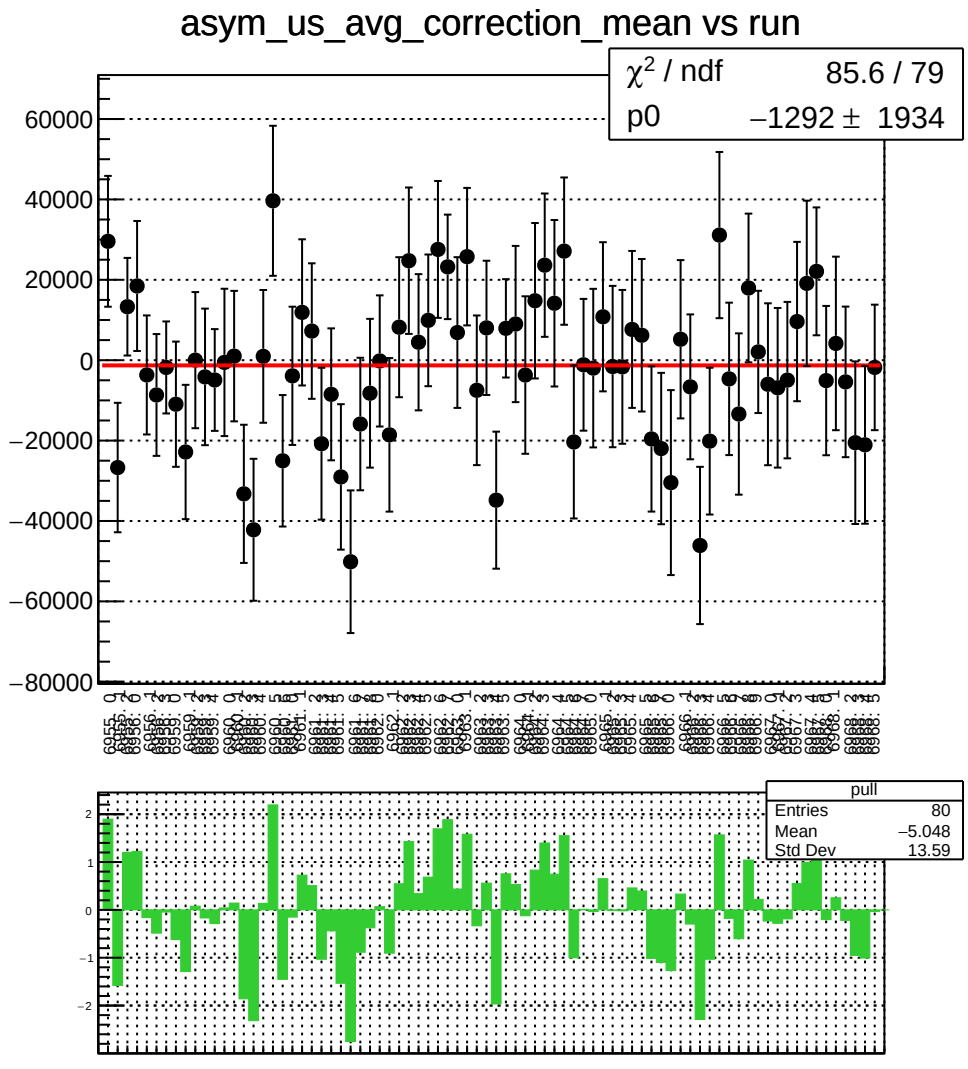
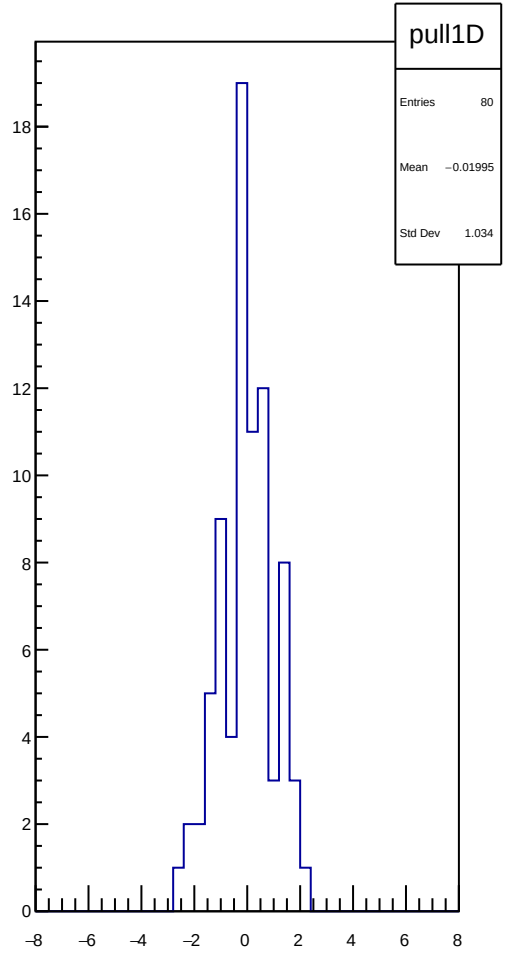
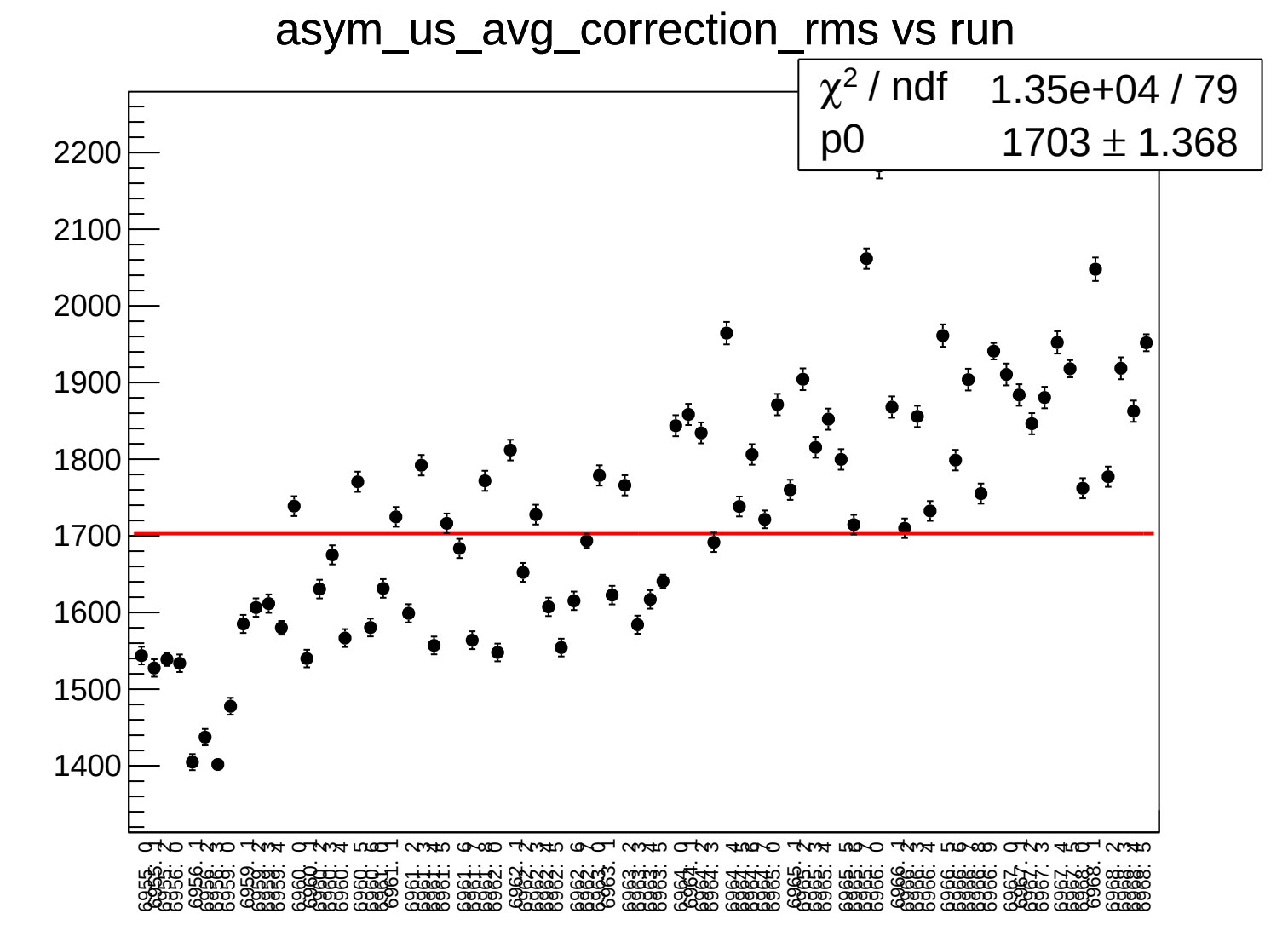

reg_asym_us_avg_mean vs run
χ² / ndf 99.39 / 79
p0 −1733 ± 887.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 80
Mean −1.249
Std Dev 79.73
3
2
1
0
−1
−2

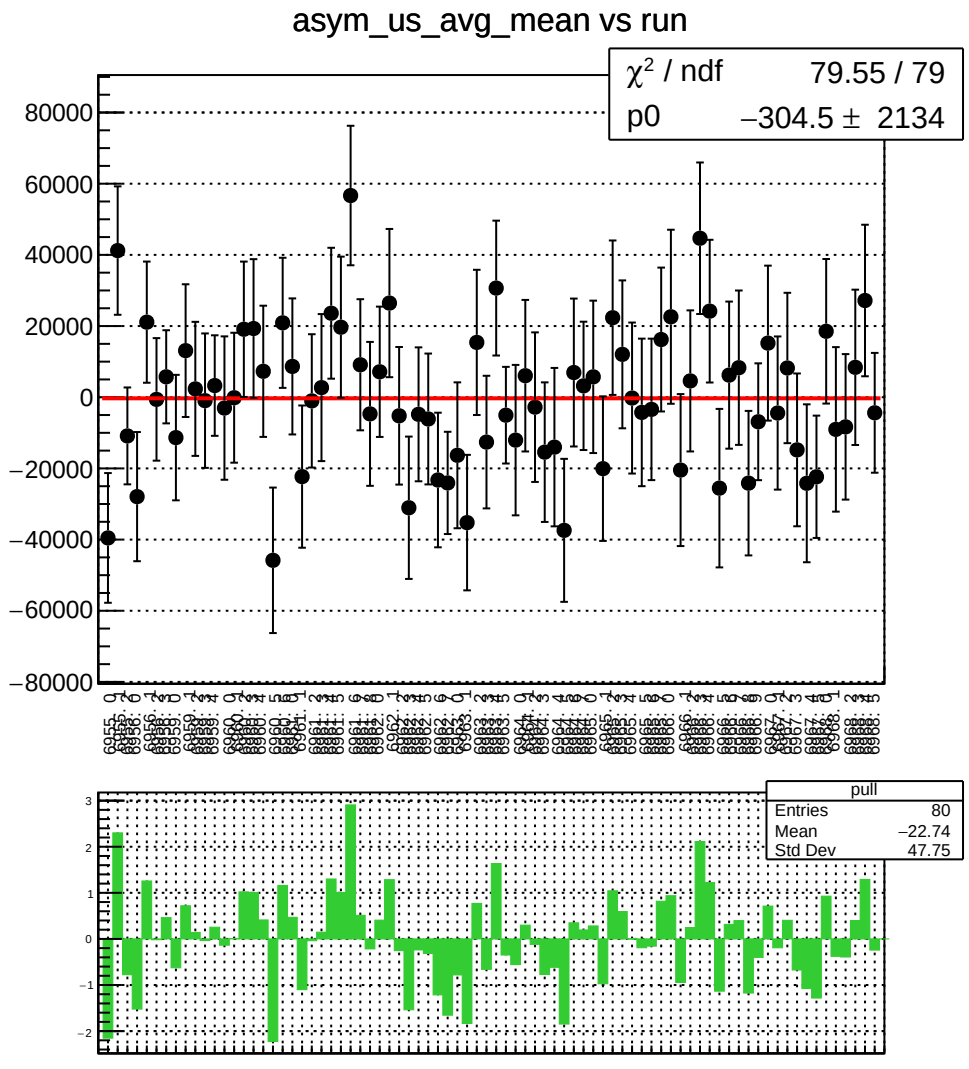

pull1D
Entries 80
Mean −0.006147
Std Dev 1.115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

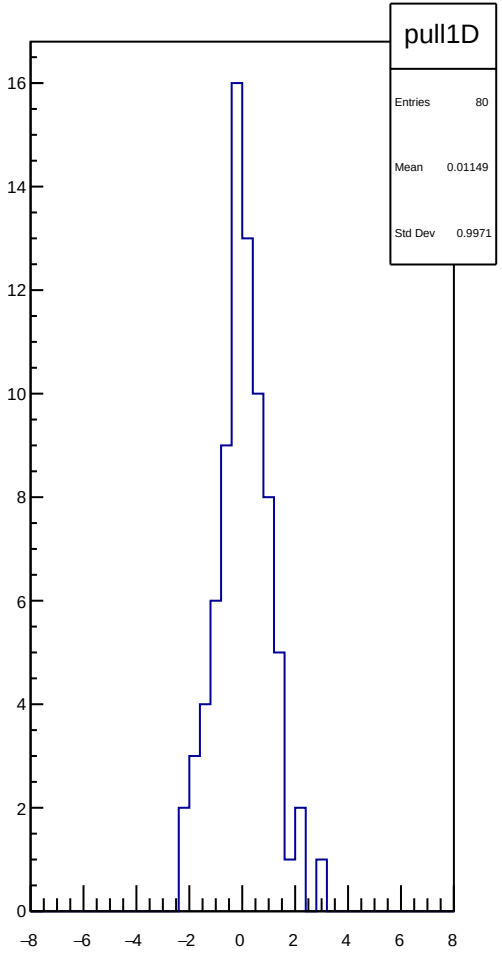

reg_asym_us_avg_rms vs run
χ² / ndf 118.3 / 79
p0 784.7 ± 0.6276
810
800
790
780
770
760

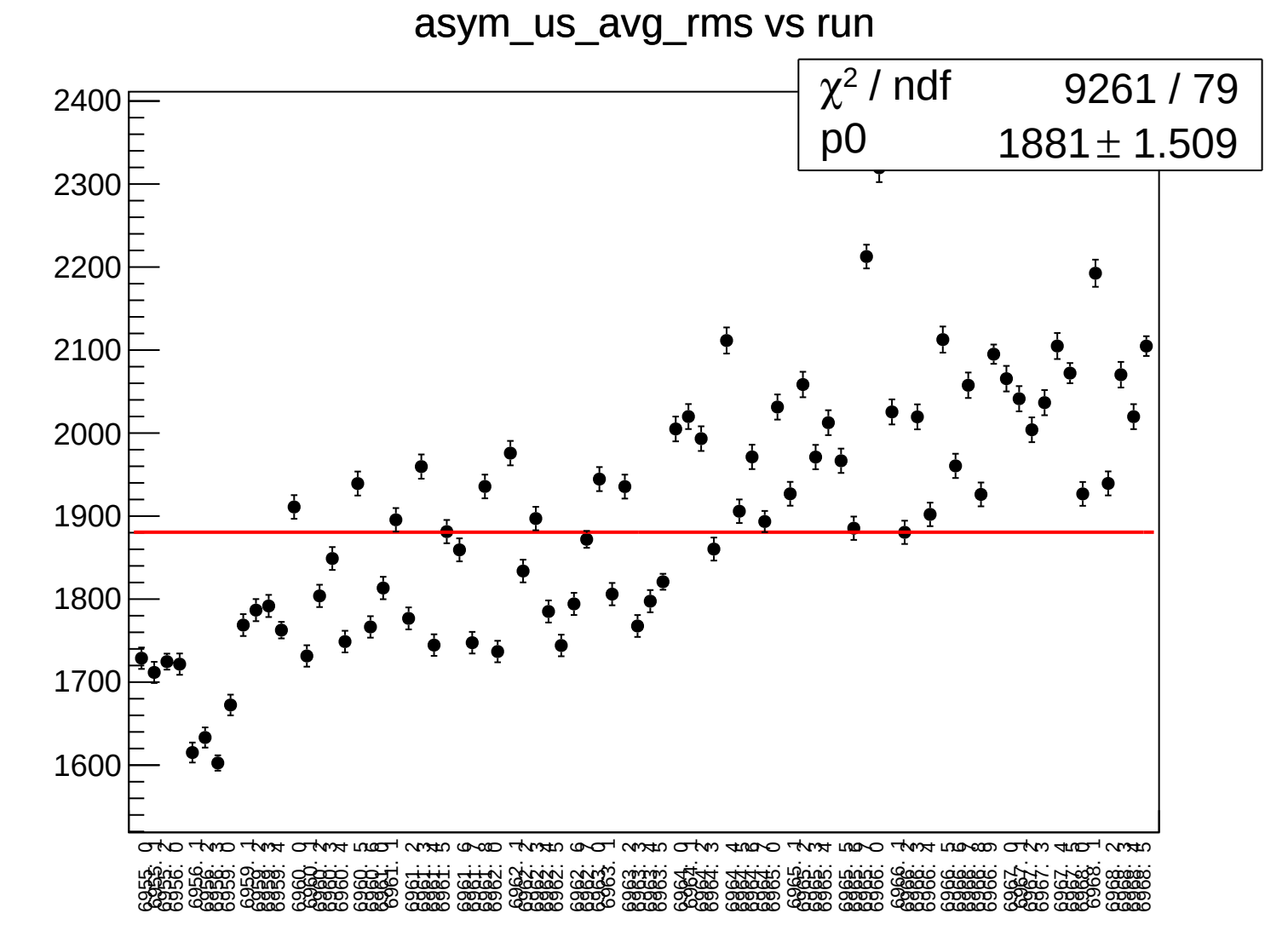

asym_us_avg_correction_mean vs run
χ² / ndf 85.6 / 79
p0 −1292 ± 1934
pull
Entries 80
Mean −5.048
Std Dev 13.59

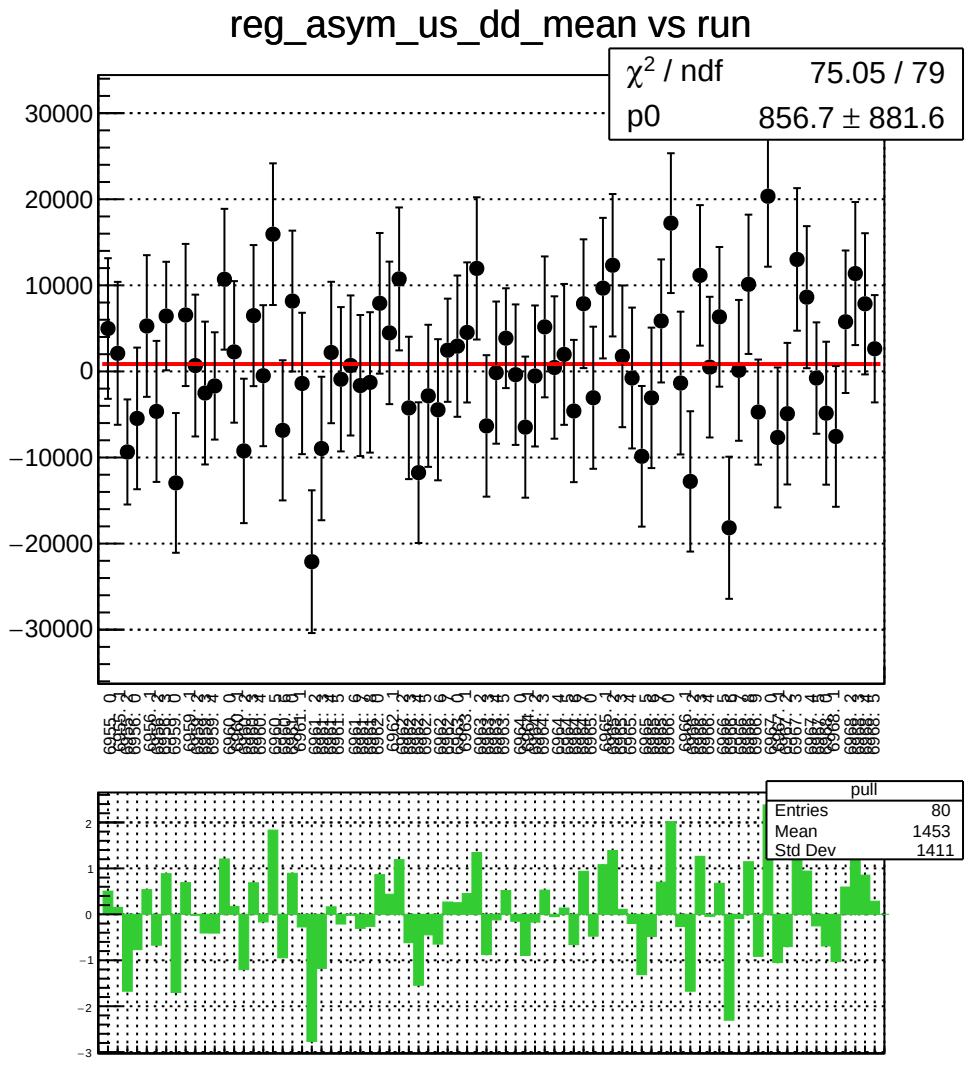

pull1D
Entries 80
Mean −0.01995
Std Dev 1.034

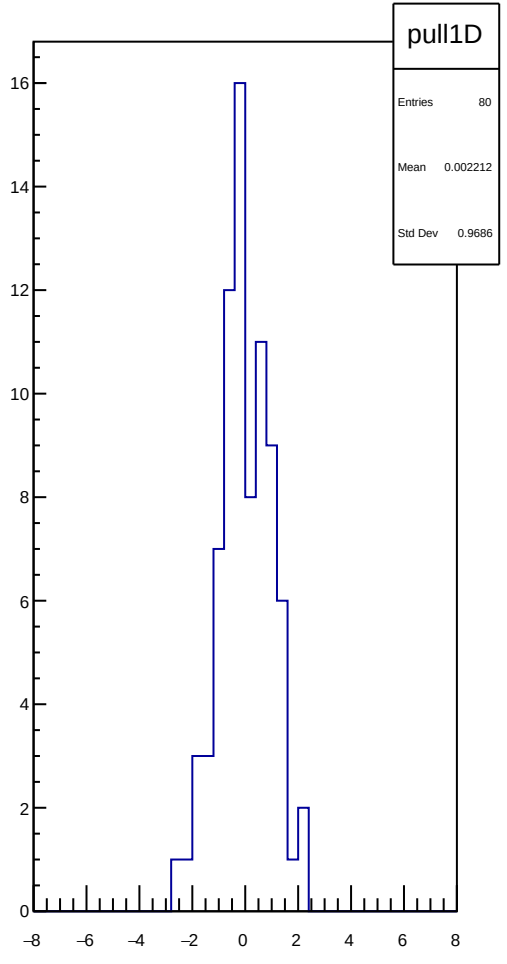

asym_us_avg_correction_rms vs run
χ² / ndf 1.35e+04 / 79
p0 1703 ± 1.368
2200
2100
2000
1900
1800
1700
1600
1500
1400

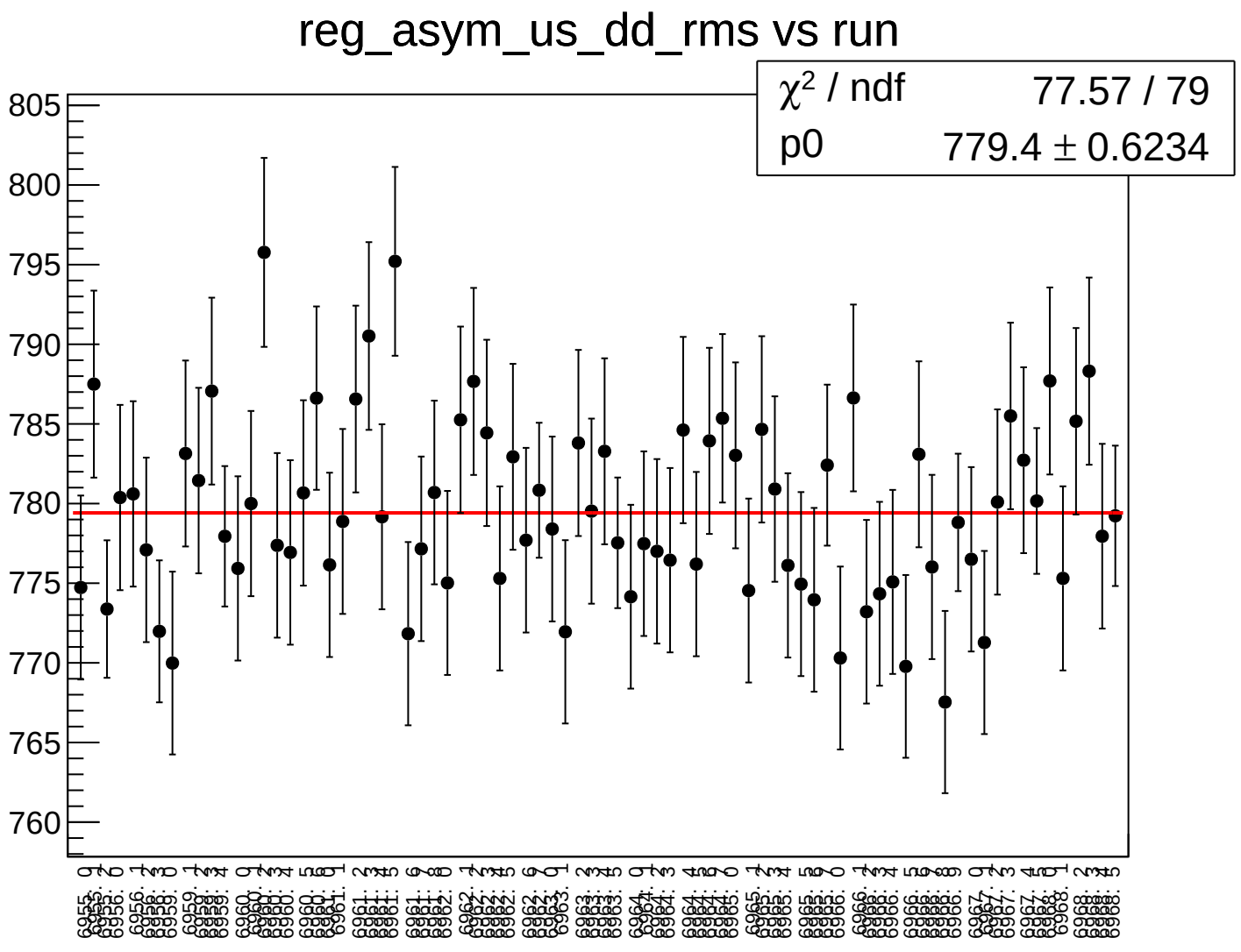

asym_us_avg_mean vs run
χ² / ndf 79.55 / 79
p0 −304.5 ± 2134
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 80
Mean −22.74
Std Dev 47.75
3
2
1
0
−1
−2

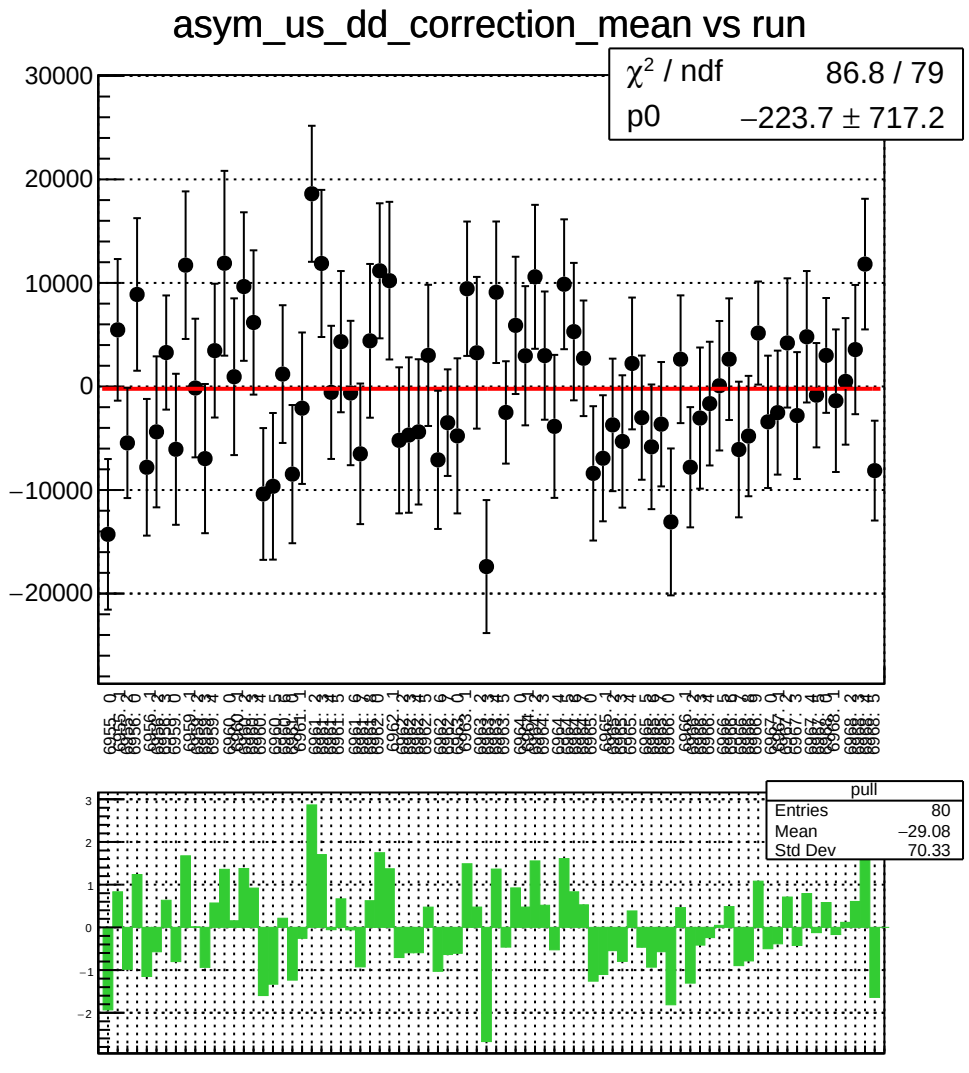

pull1D
Entries 80
Mean 0.01149
Std Dev 0.9971
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

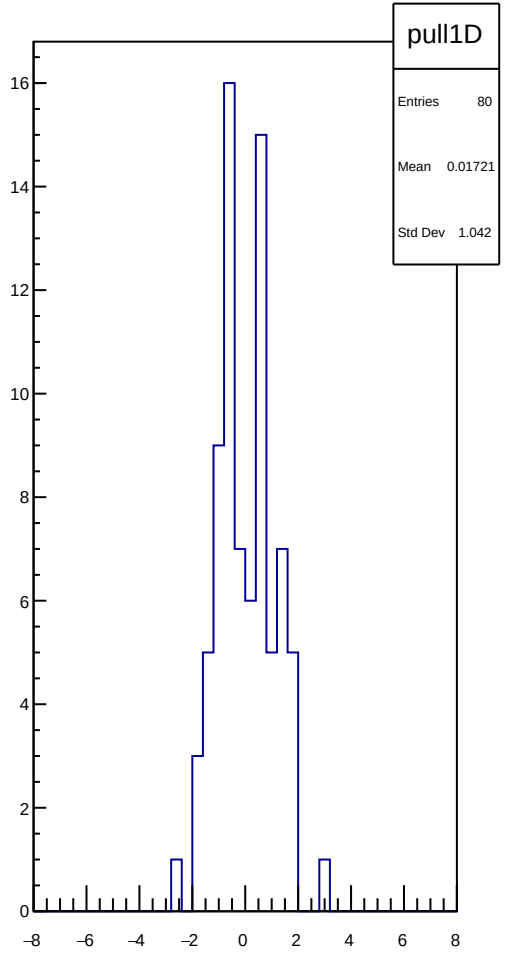

asym_us_avg_rms vs run
χ² / ndf 9261 / 79
p0 1881 ± 1.509
2400
2300
2200
2100
2000
1900
1800
1700
1600

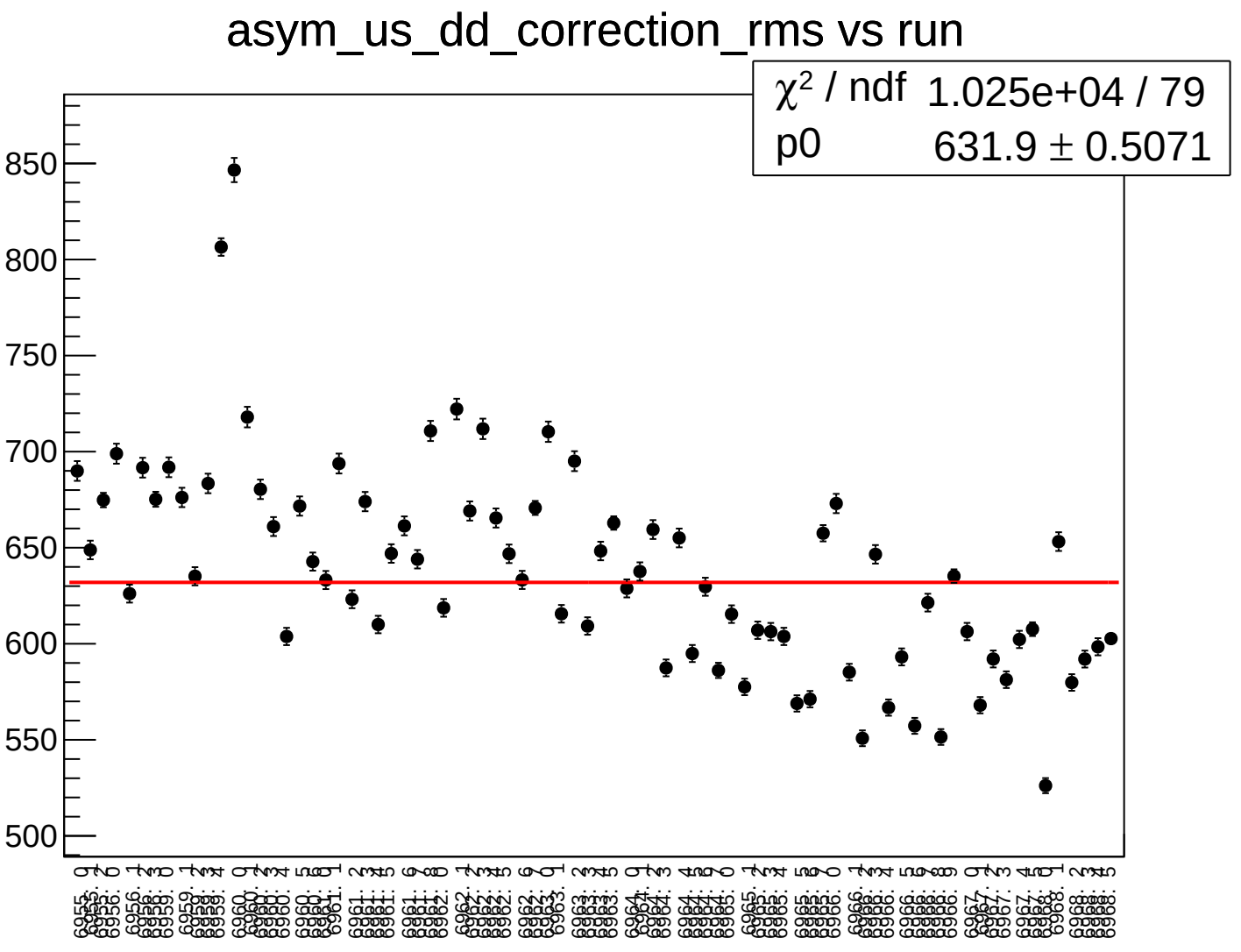

reg_asym_us_dd_mean vs run
χ² / ndf 75.05 / 79
p0 856.7 ± 881.6
pull
Entries 80
Mean 1453
Std Dev 1411

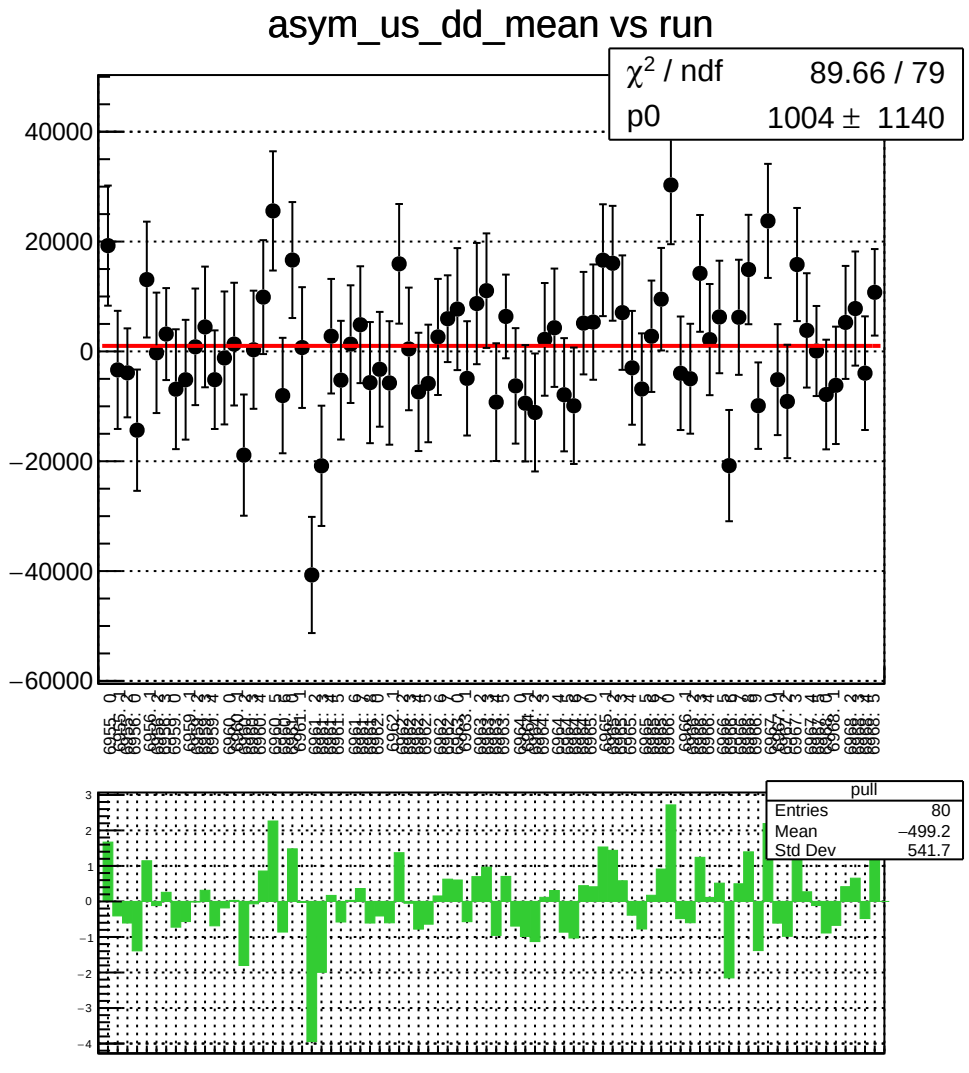

pull1D
Entries 80
Mean 0.002212
Std Dev 0.9686

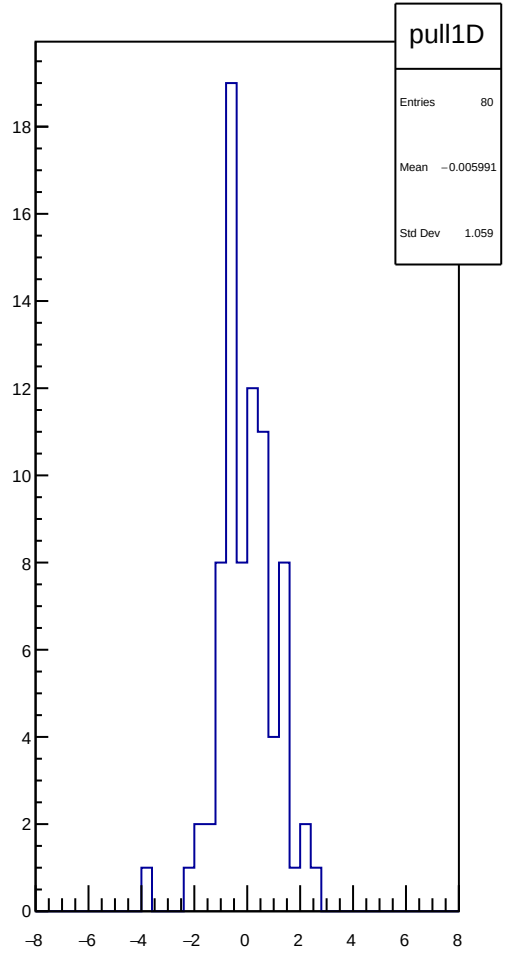

reg_asym_us_dd_rms vs run
χ² / ndf 77.57 / 79
p0 779.4 ± 0.6234
805
800
795
790
785
780
775
770
765
760

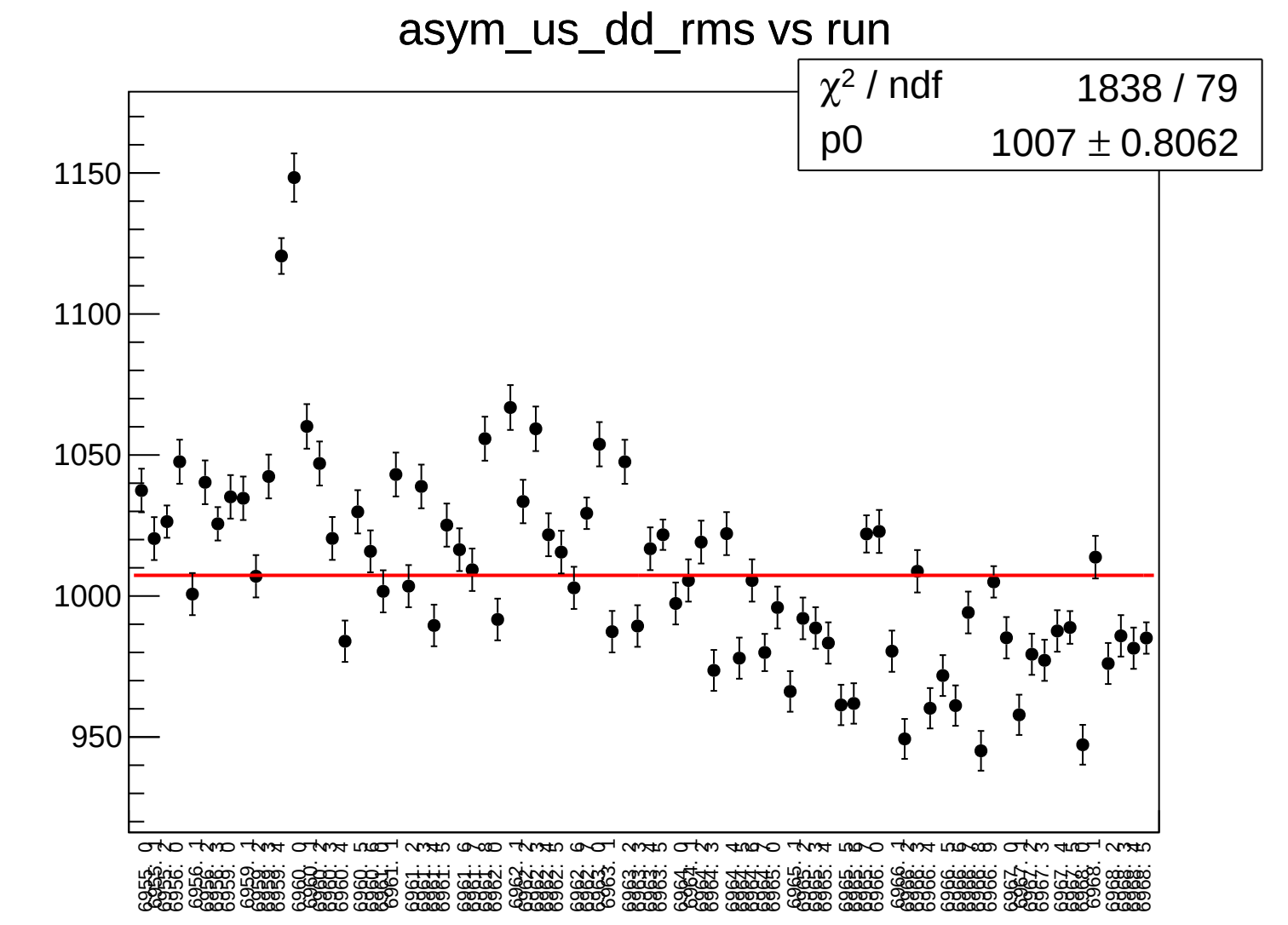

asym_us_dd_correction_mean vs run
χ² / ndf 86.8 / 79
p0 −223.7 ± 717.2
30000
20000
10000
0
−10000
−20000
pull
Entries 80
Mean −29.08
Std Dev 70.33
3
2
1
0
−1
−2

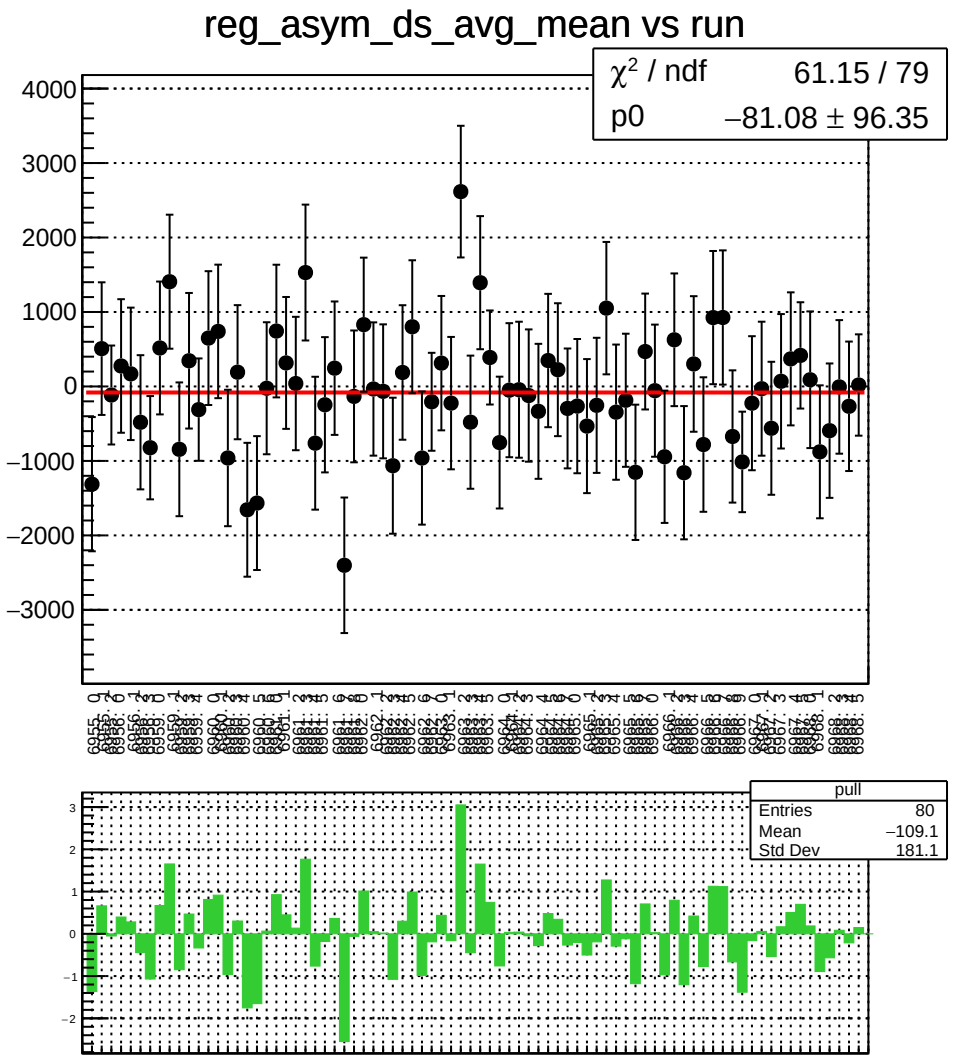

pull1D
Entries 80
Mean 0.01721
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

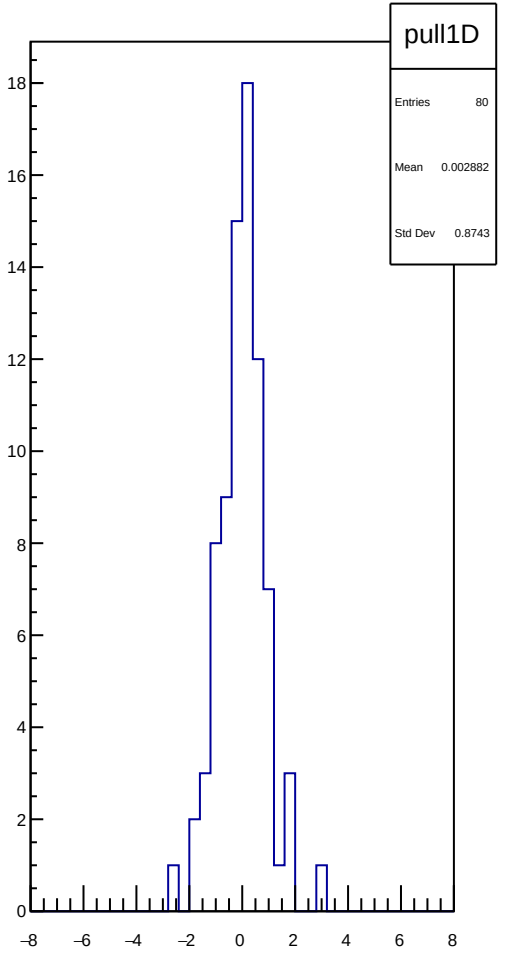

asym_us_dd_correction_rms vs run
χ² / ndf 1.025e+04 / 79
p0 631.9 ± 0.5071
850
800
750
700
650
600
550
500

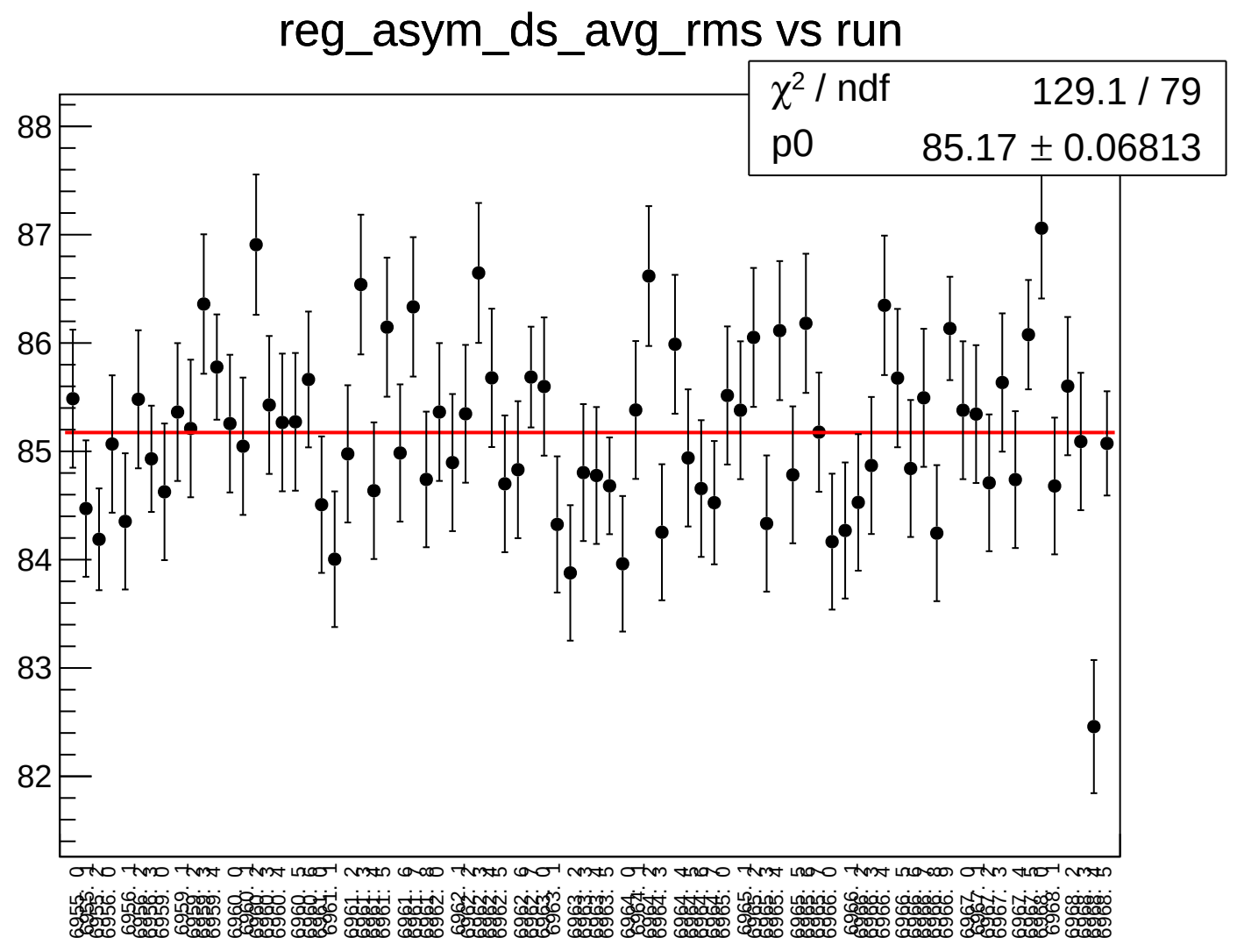

asym_us_dd_mean vs run
χ² / ndf 89.66 / 79
p0 1004 ± 1140
40000
20000
0
−20000
−40000
−60000
pull
Entries 80
Mean −499.2
Std Dev 541.7
3
2
1
0
−1
−2
−3
−4

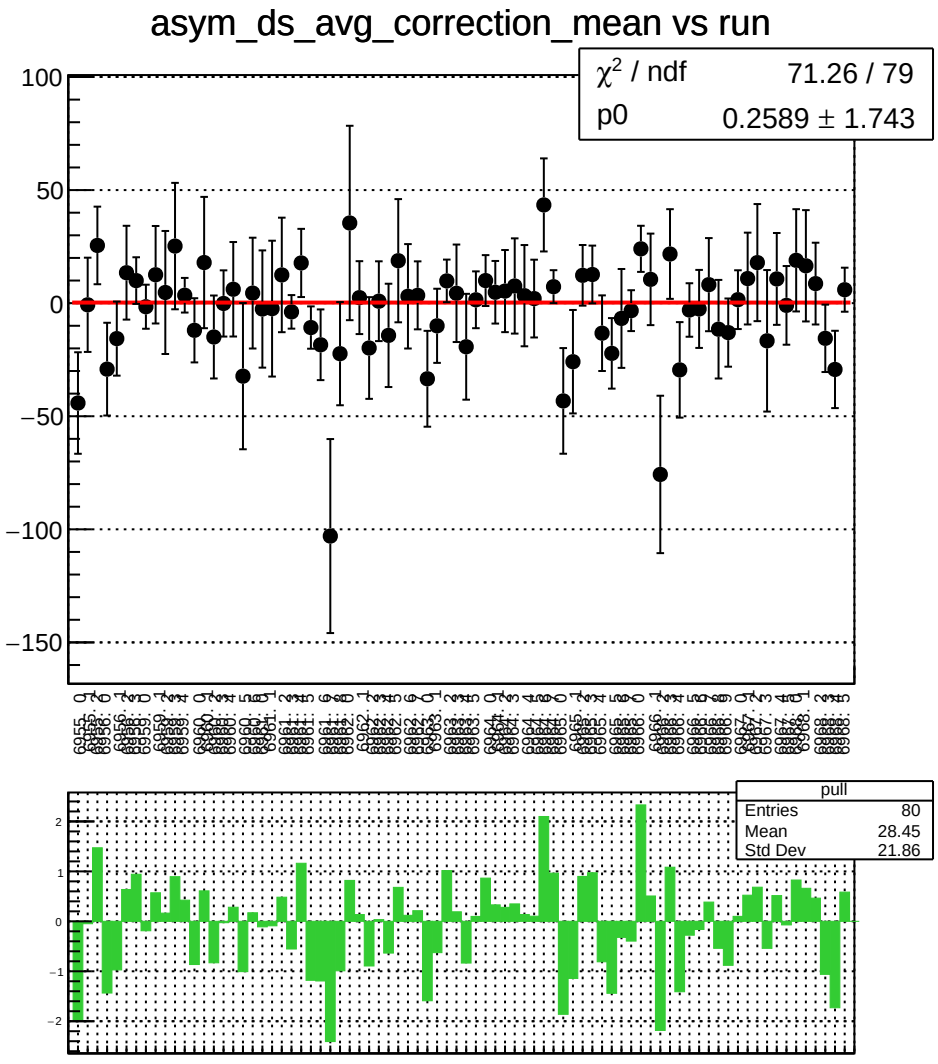

pull1D
Entries 80
Mean −0.005991
Std Dev 1.059
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

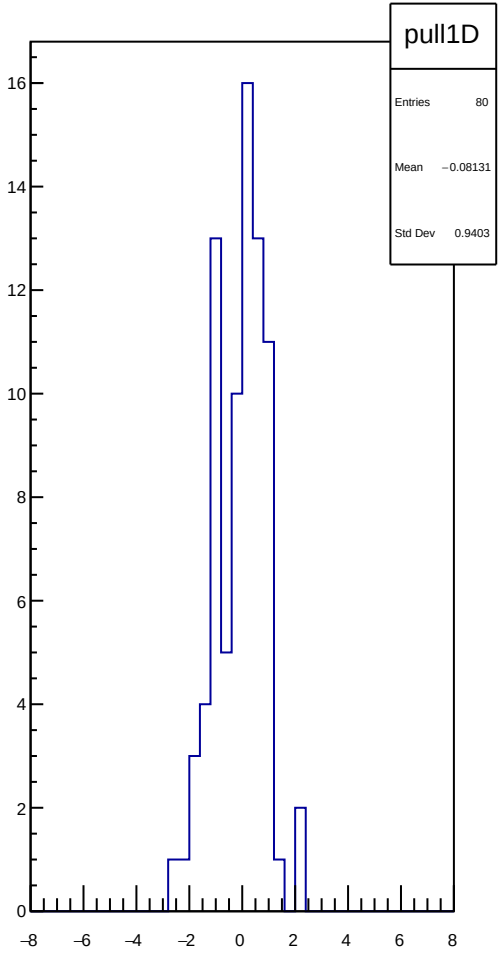

asym_us_dd_rms vs run
χ^2 / ndf 1838 / 79
p0 1007 ± 0.8062
1150
1100
1050
1000
950

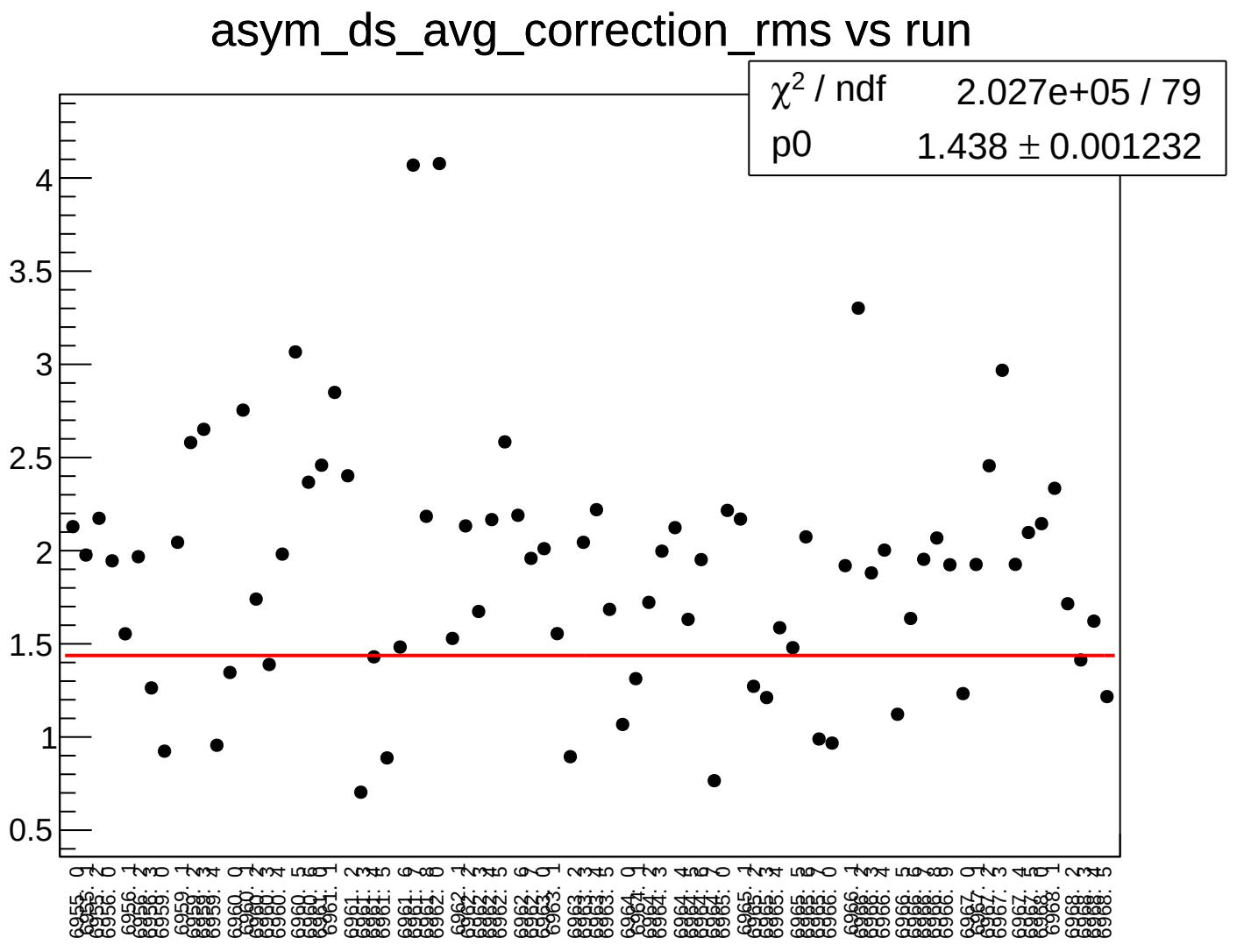

reg_asym_ds_avg_mean vs run
χ² / ndf 61.15 / 79
p0 −81.08 ± 96.35
pull
Entries 80
Mean −109.1
Std Dev 181.1

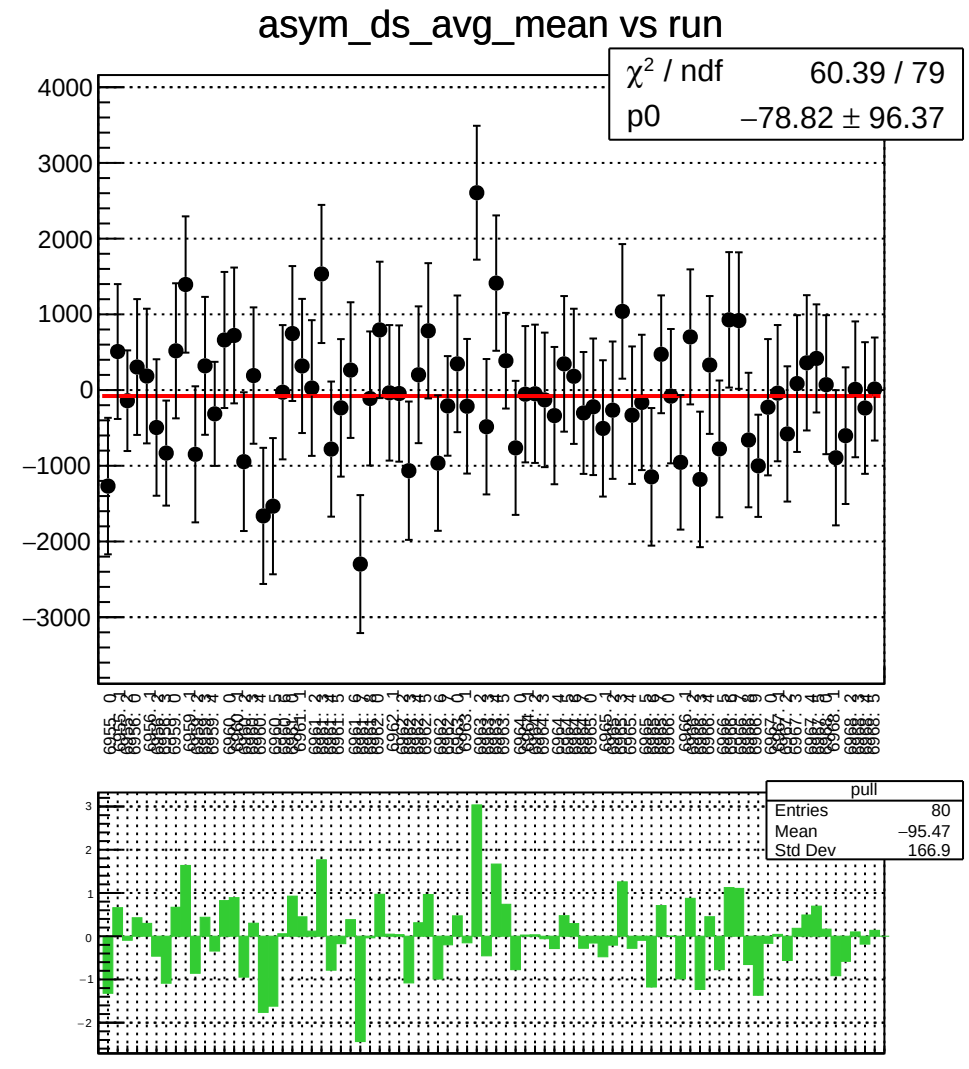

pull1D
Entries 80
Mean 0.002882
Std Dev 0.8743

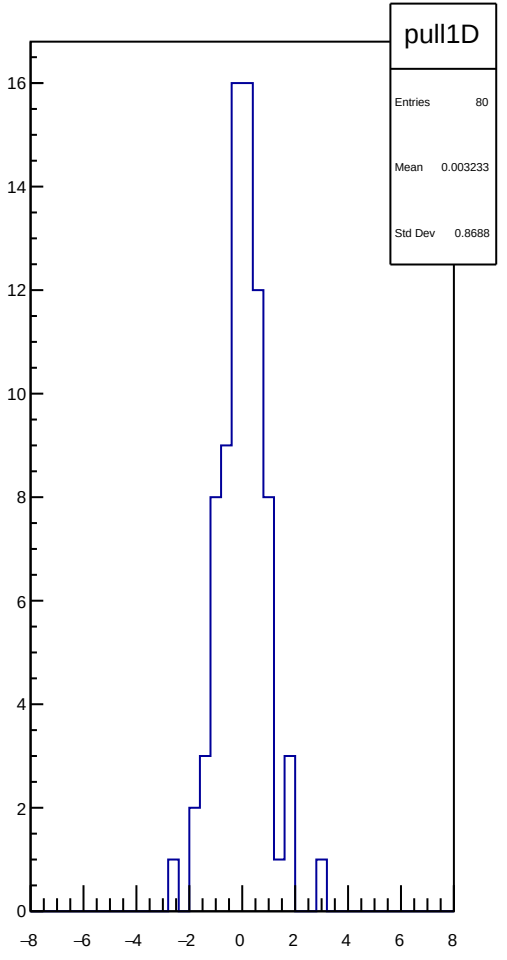

reg_asym_ds_avg_rms vs run
χ² / ndf 129.1 / 79
p0 85.17 ± 0.06813
88
87
86
85
84
83
82

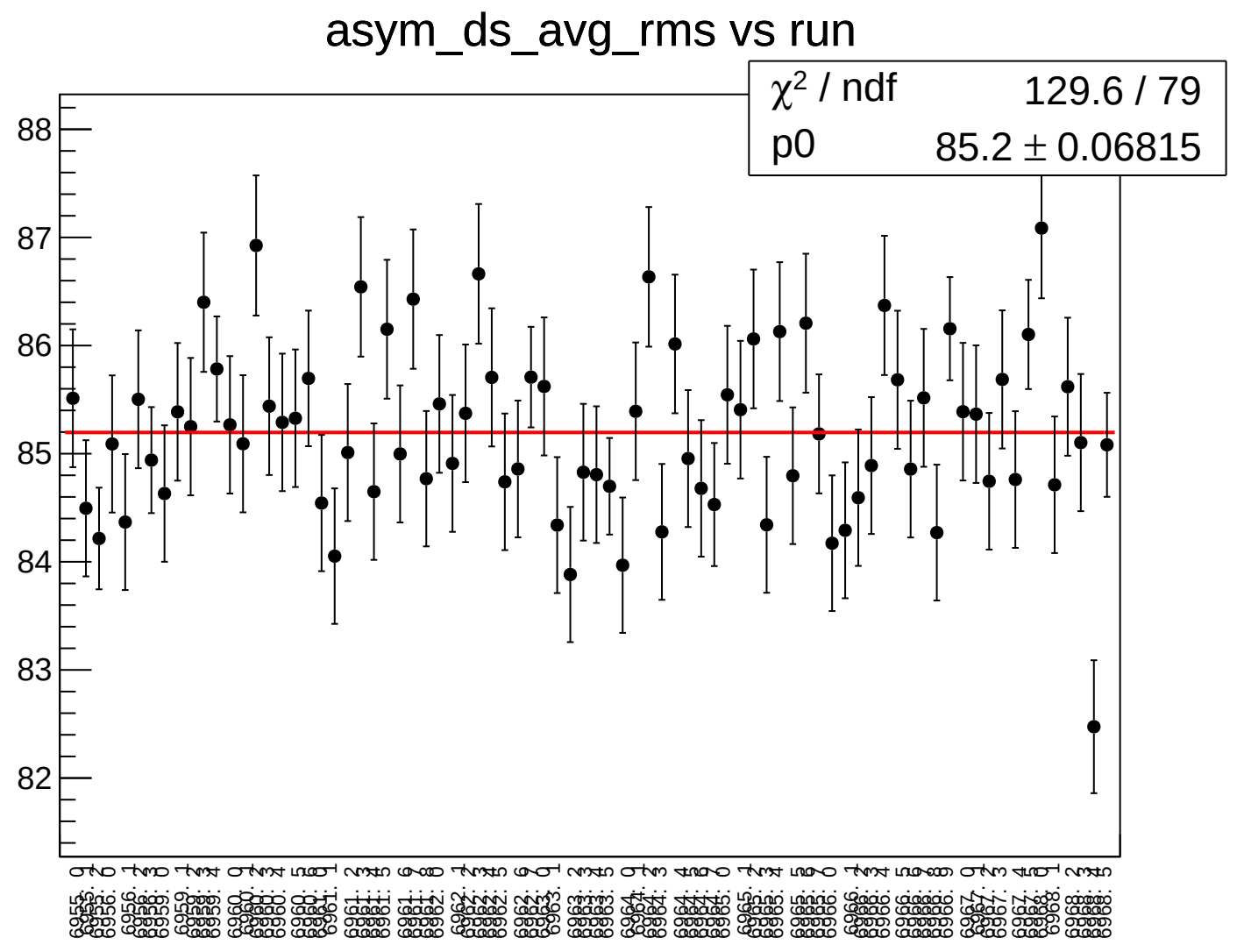

asym_ds_avg_correction_mean vs run
χ² / ndf 71.26 / 79
p0 0.2589 ± 1.743
pull
Entries 80
Mean 28.45
Std Dev 21.86

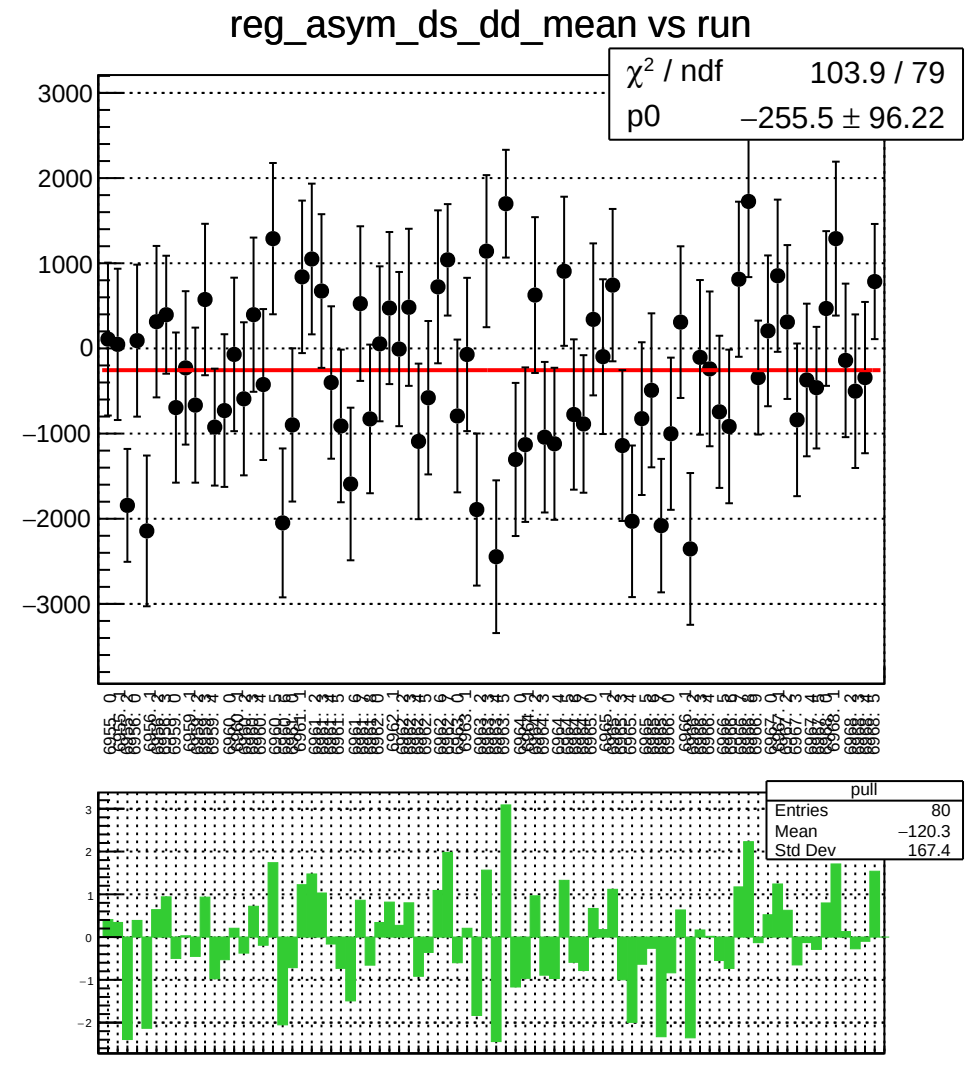

pull1D
Entries 80
Mean −0.08131
Std Dev 0.9403

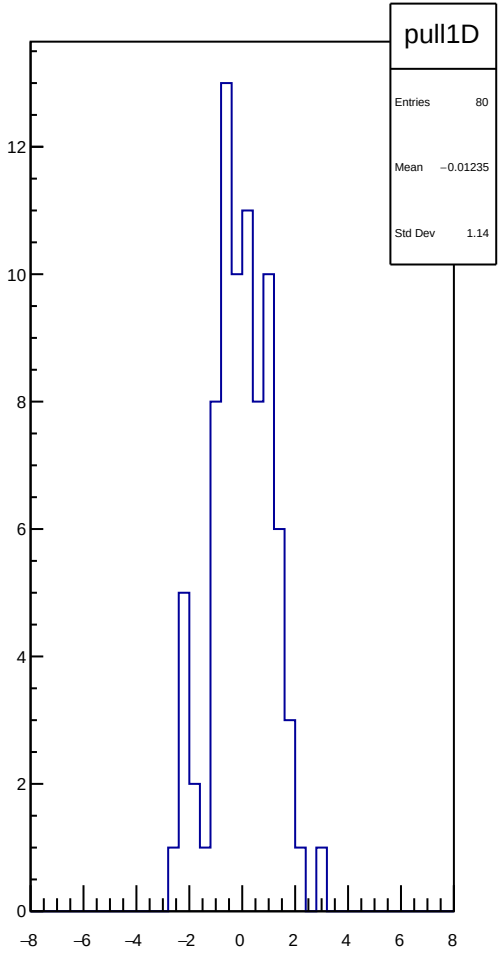

asym_ds_avg_correction_rms vs run
χ^2 / ndf 2.027e+05 / 79
p0 1.438 ± 0.001232
4
3.5
3
2.5
2
1.5
1
0.5

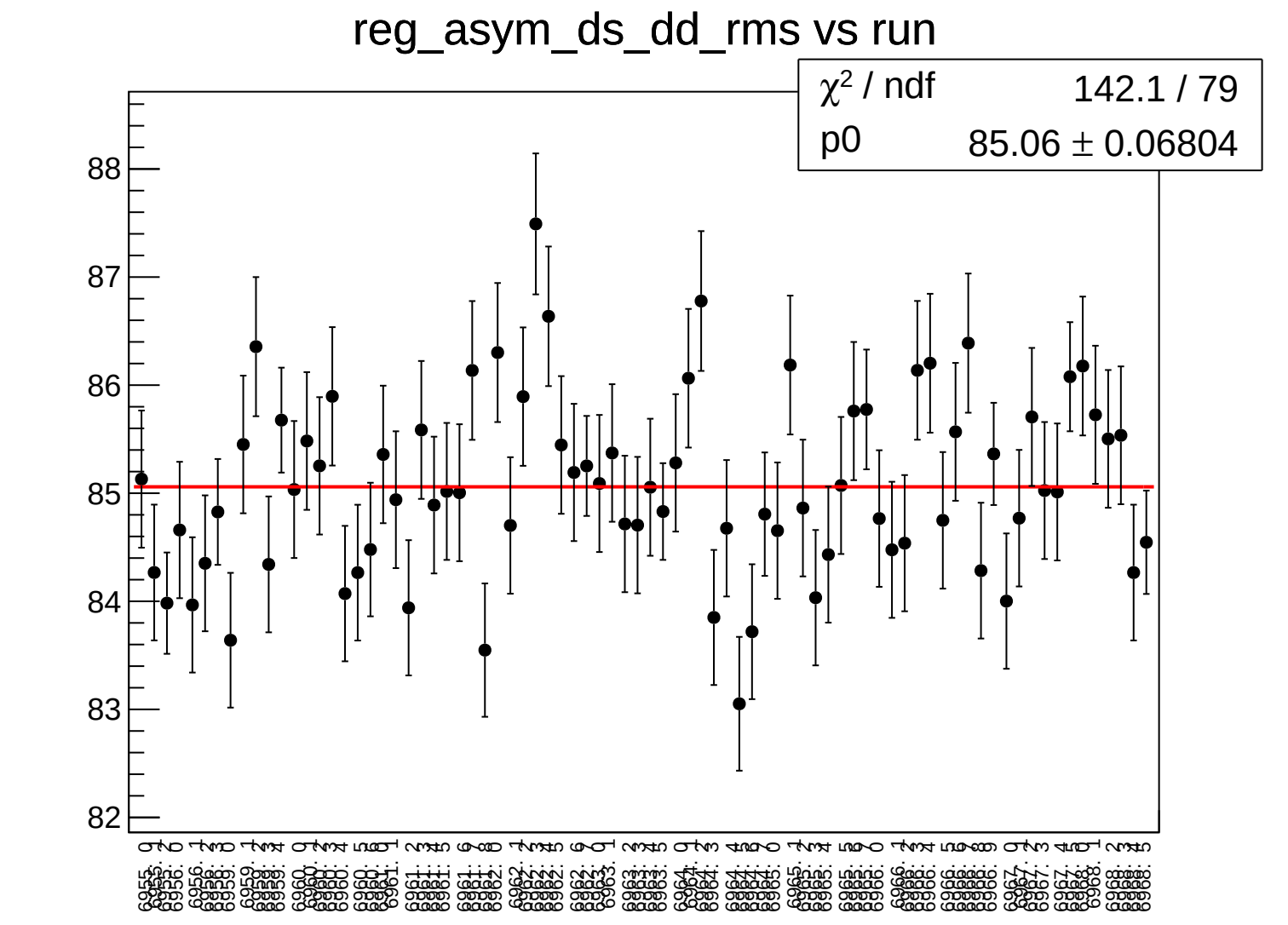

asym_ds_avg_mean vs run
χ² / ndf 60.39 / 79
p0 −78.82 ± 96.37
pull
Entries 80
Mean −95.47
Std Dev 166.9

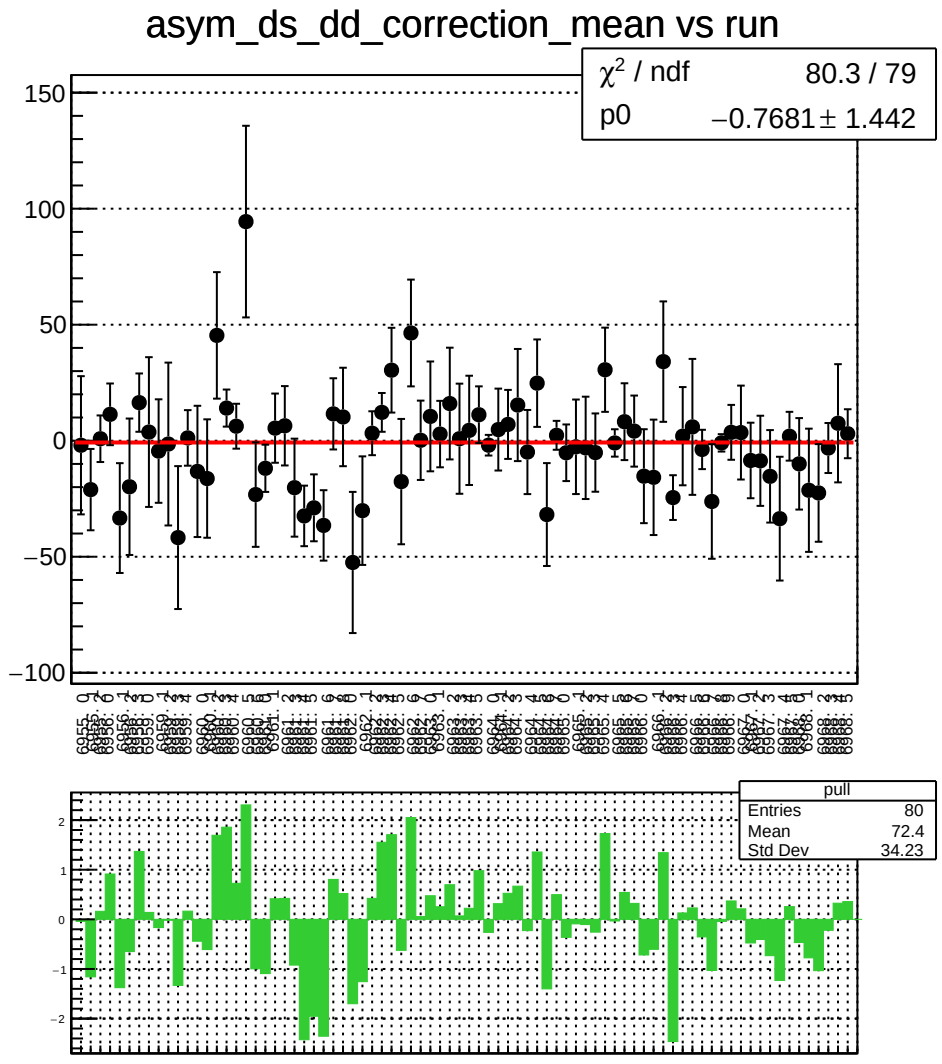

pull1D
Entries 80
Mean 0.003233
Std Dev 0.8688

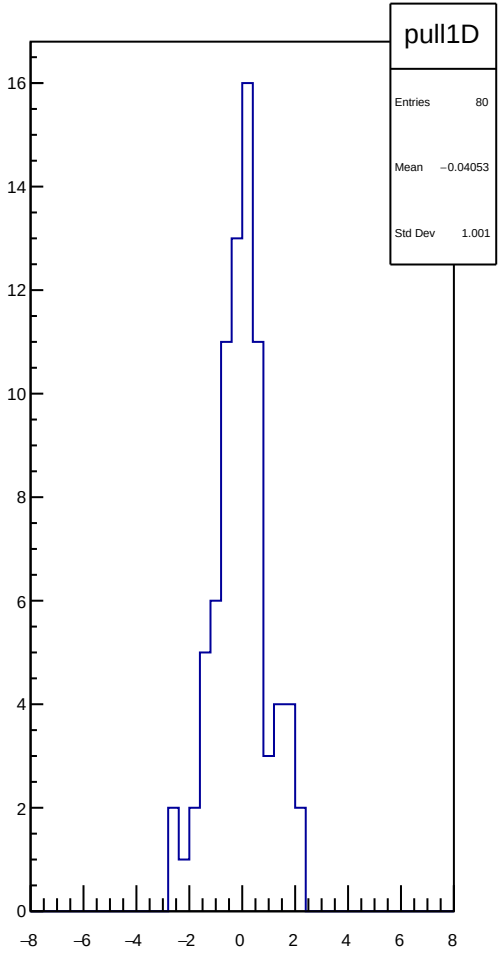

asym_ds_avg_rms vs run
χ² / ndf 129.6 / 79
p0 85.2 ± 0.06815
88
87
86
85
84
83
82

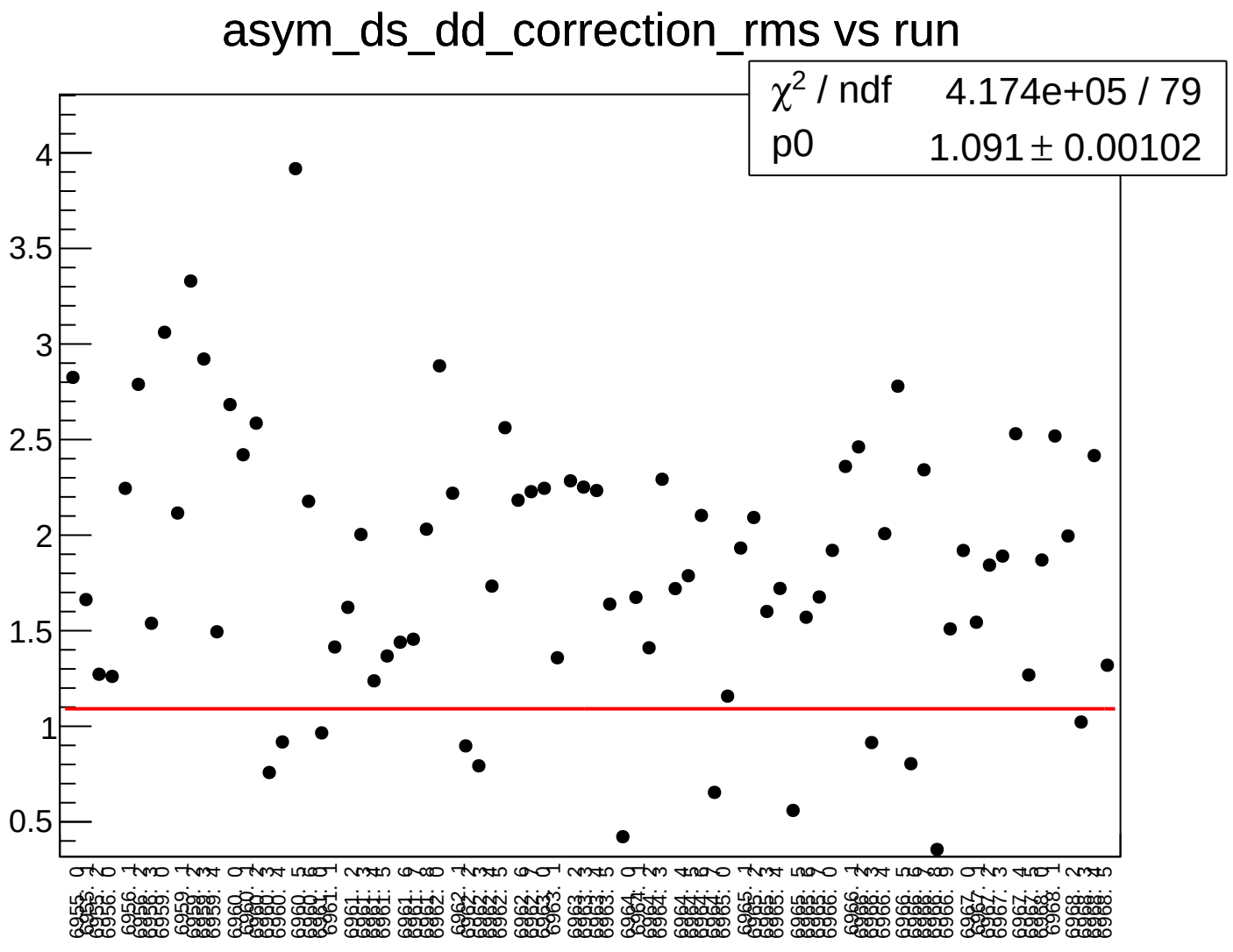

reg_asym_ds_dd_mean vs run
χ² / ndf 103.9 / 79
p0 −255.5 ± 96.22
pull
Entries 80
Mean −120.3
Std Dev 167.4

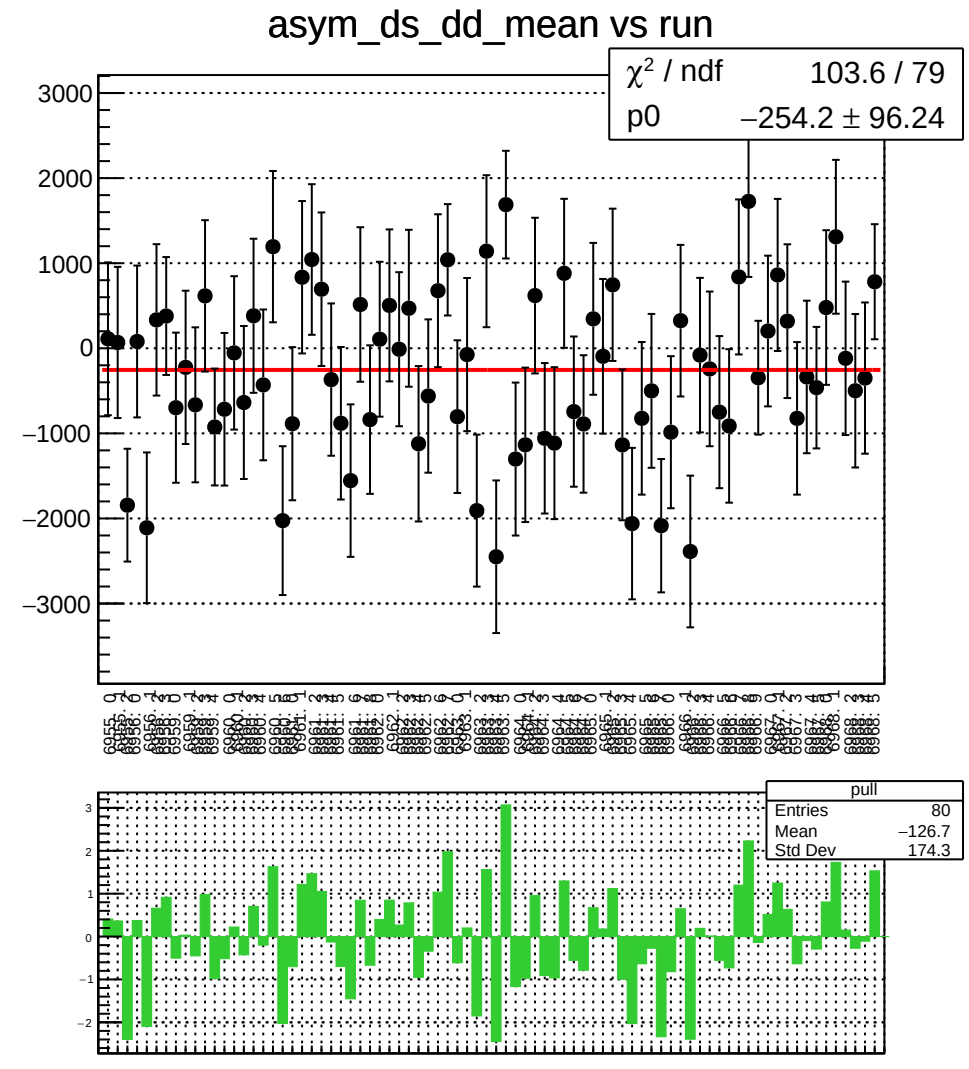

pull1D
Entries 80
Mean −0.01235
Std Dev 1.14

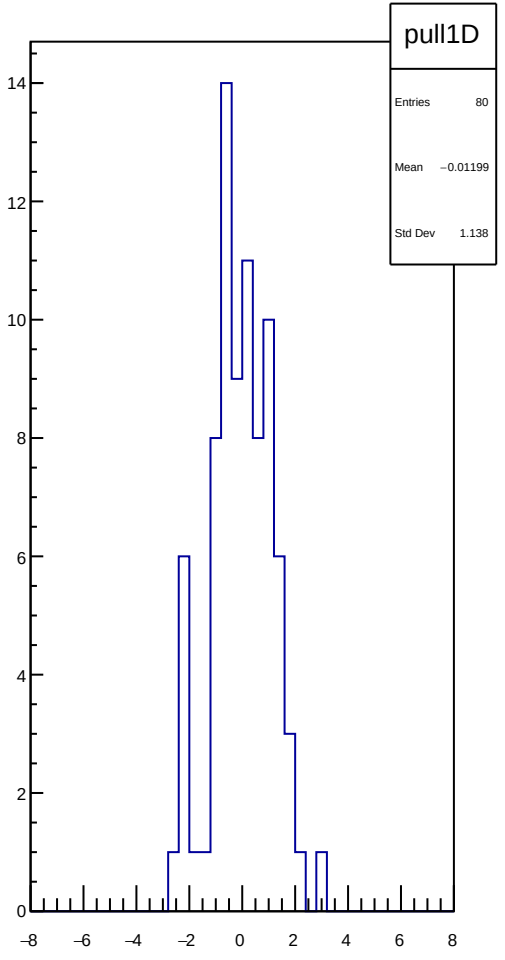

reg_asym_ds_dd_rms vs run
χ² / ndf 142.1 / 79
p0 85.06 ± 0.06804
88
87
86
85
84
83
82

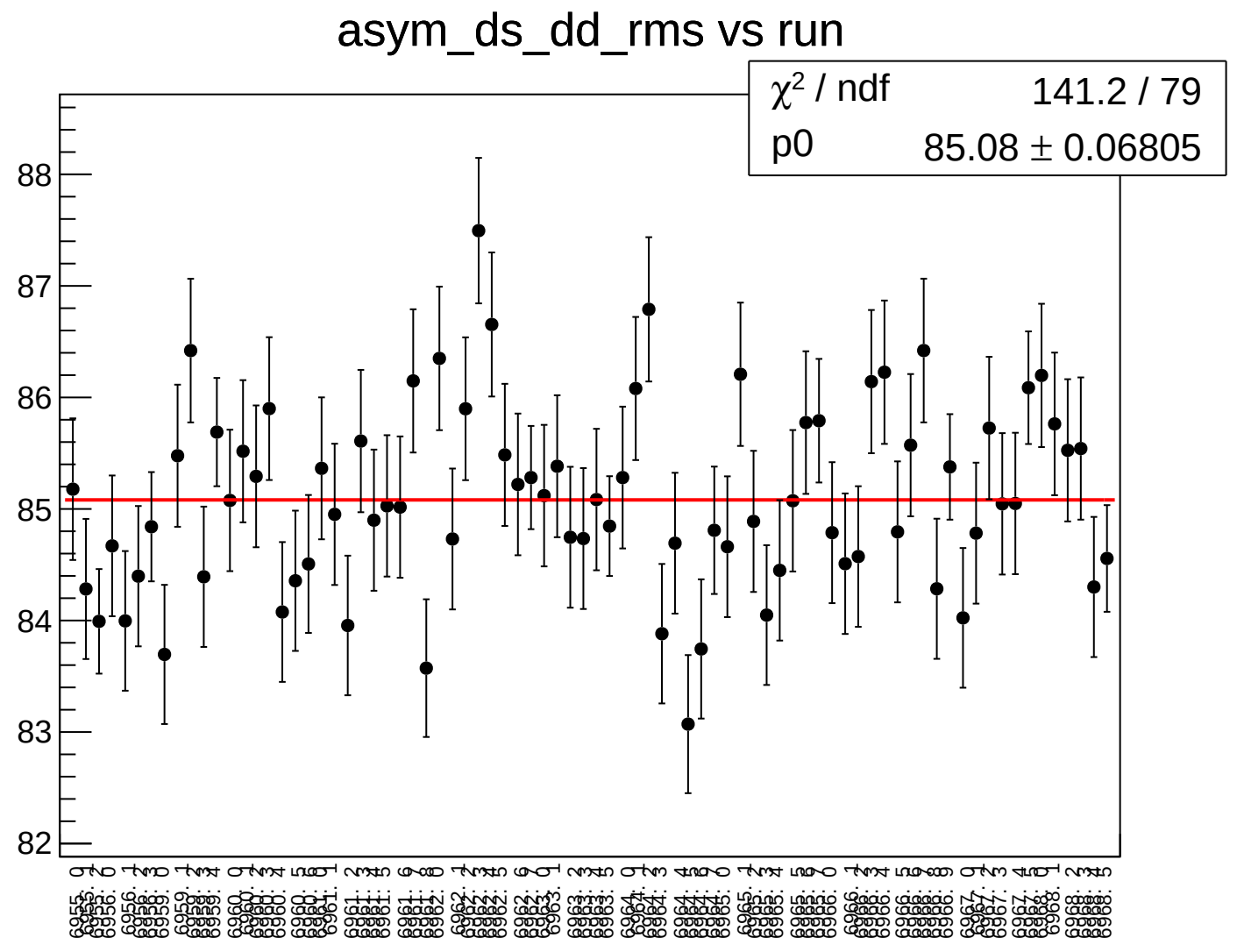

asym_ds_dd_correction_mean vs run
χ² / ndf 80.3 / 79
p0 −0.7681 ± 1.442
150
100
50
0
−50
−100
pull
Entries 80
Mean 72.4
Std Dev 34.23
2
1
0
−1
−2

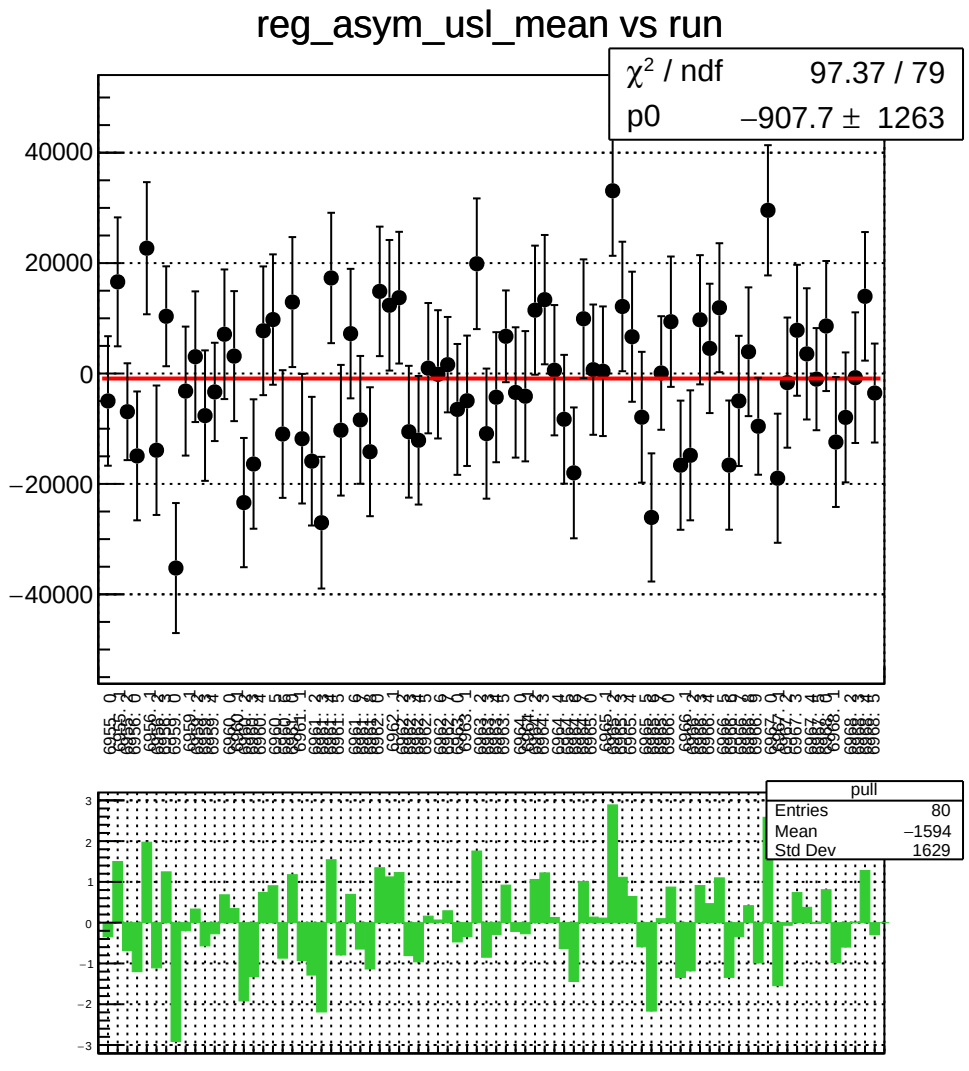

pull1D
Entries 80
Mean −0.04053
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

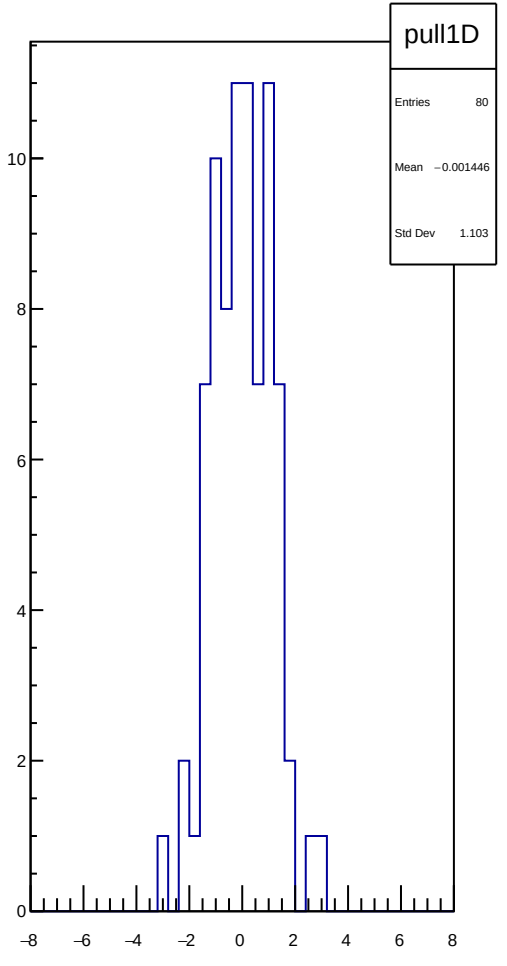

asym_ds_dd_correction_rms vs run
χ^2 / ndf 4.174e+05 / 79
p0 1.091 ± 0.00102
4
3.5
3
2.5
2
1.5
1
0.5

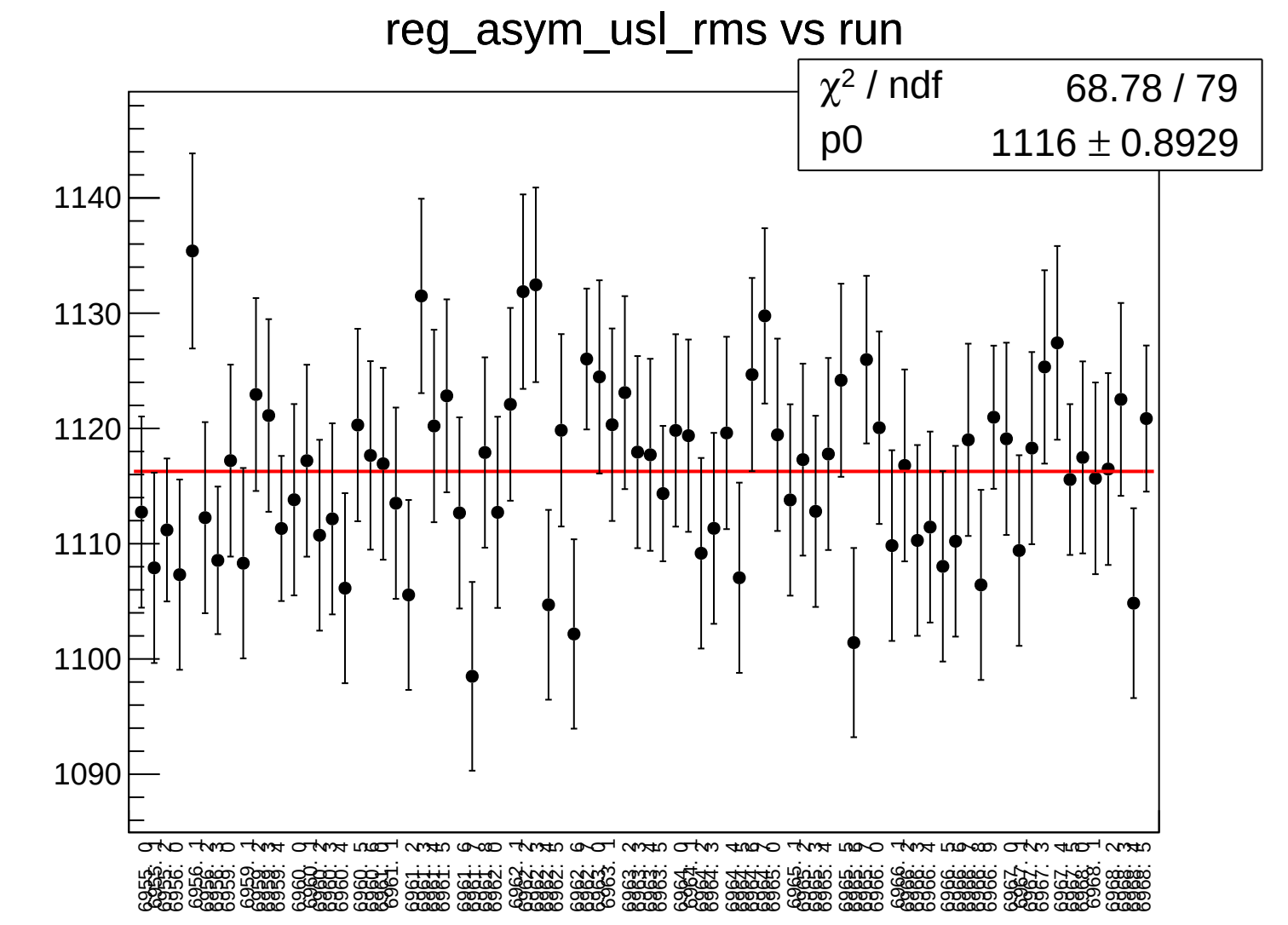

asym_ds_dd_mean vs run
χ² / ndf 103.6 / 79
p0 −254.2 ± 96.24
pull
Entries 80
Mean −126.7
Std Dev 174.3

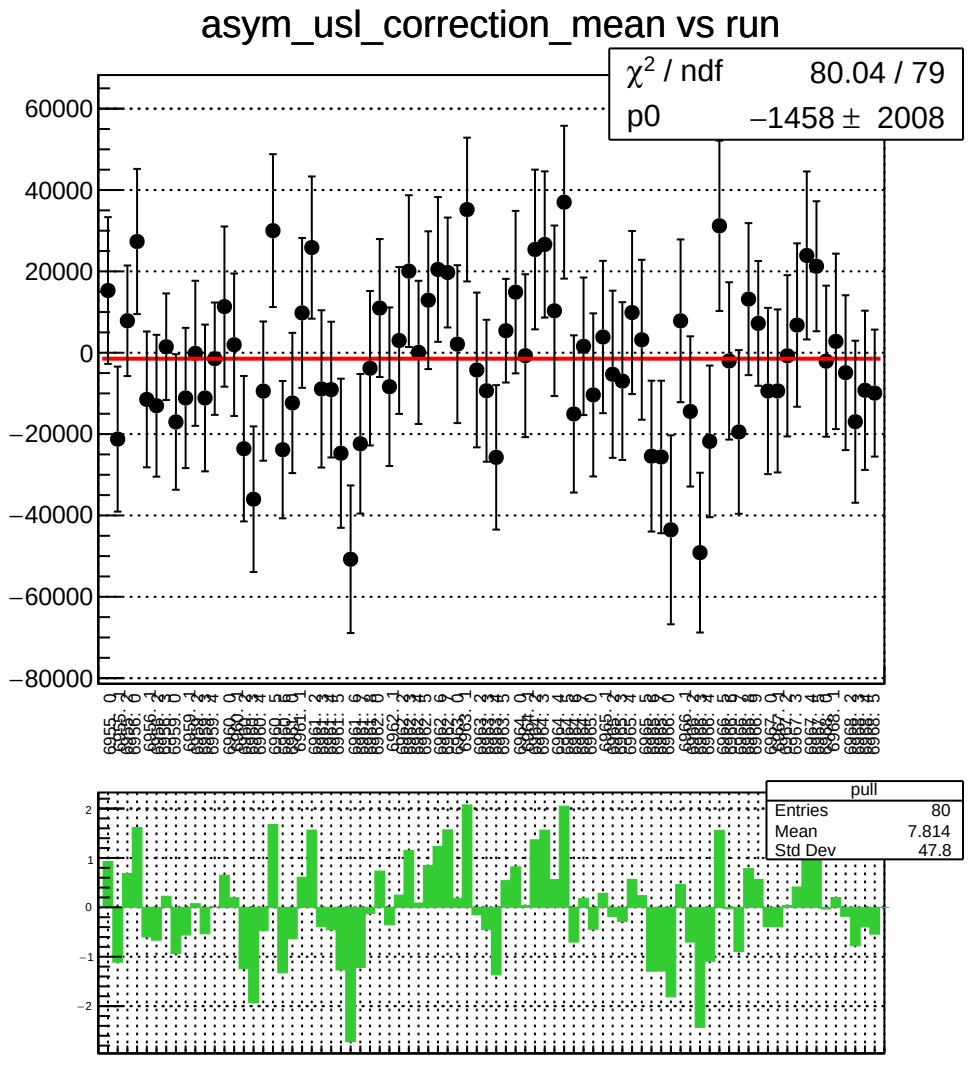

pull1D
Entries 80
Mean −0.01199
Std Dev 1.138

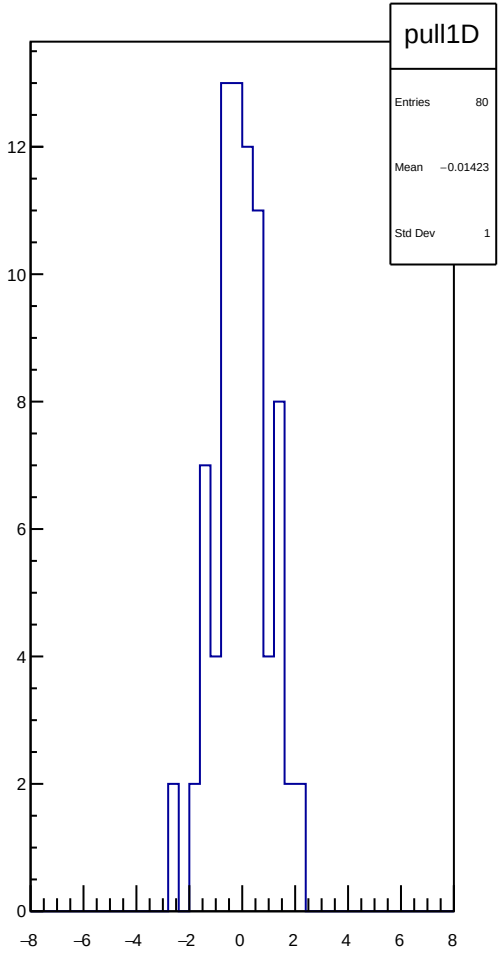

asym_ds_dd_rms vs run
χ² / ndf 141.2 / 79
p0 85.08 ± 0.06805
88
87
86
85
84
83
82

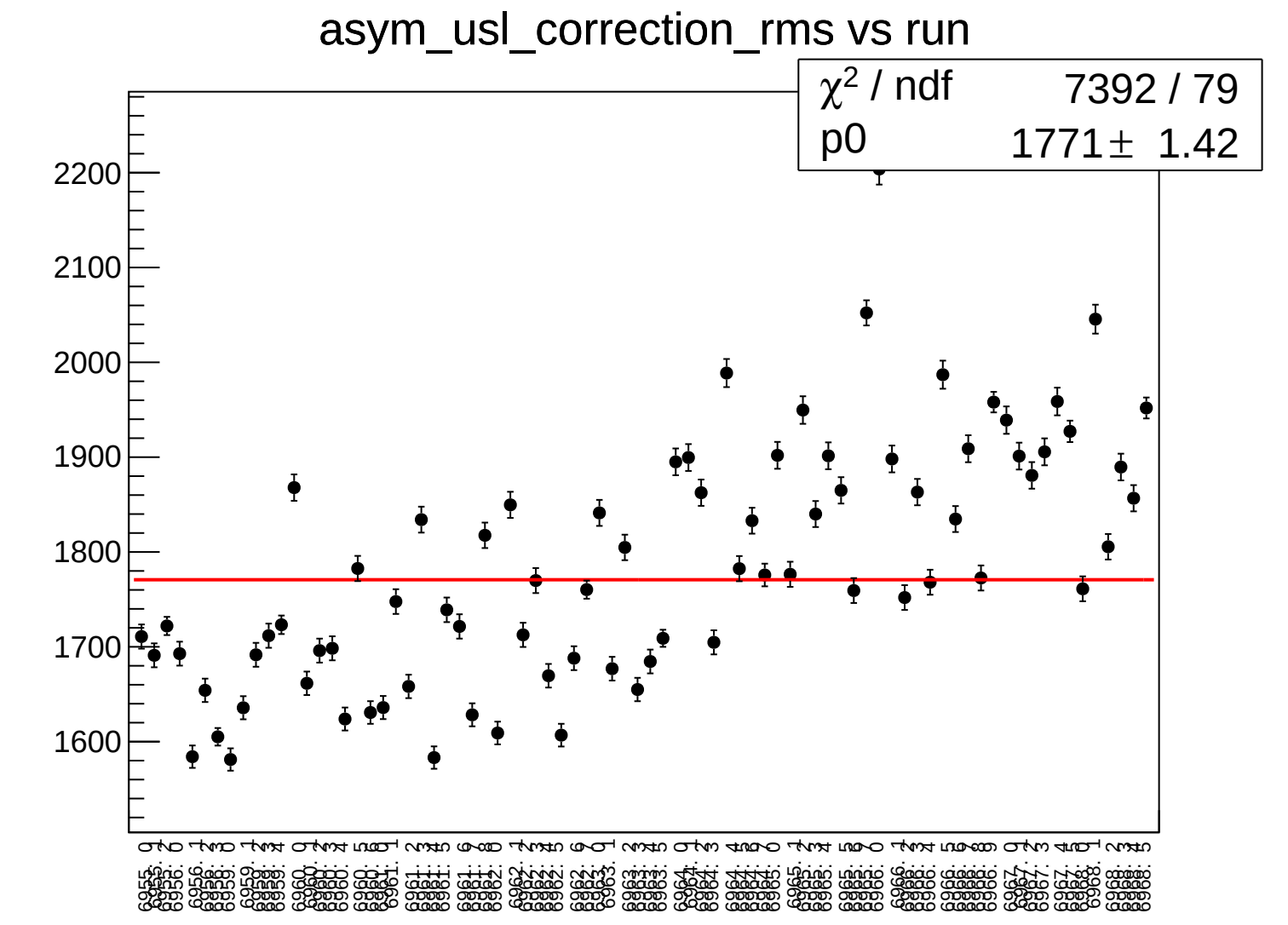

reg_asym_usl_mean vs run
χ² / ndf 97.37 / 79
p0 −907.7 ± 1263
40000
20000
0
−20000
−40000
pull
Entries 80
Mean −1594
Std Dev 1629
3
2
1
0
−1
−2
−3

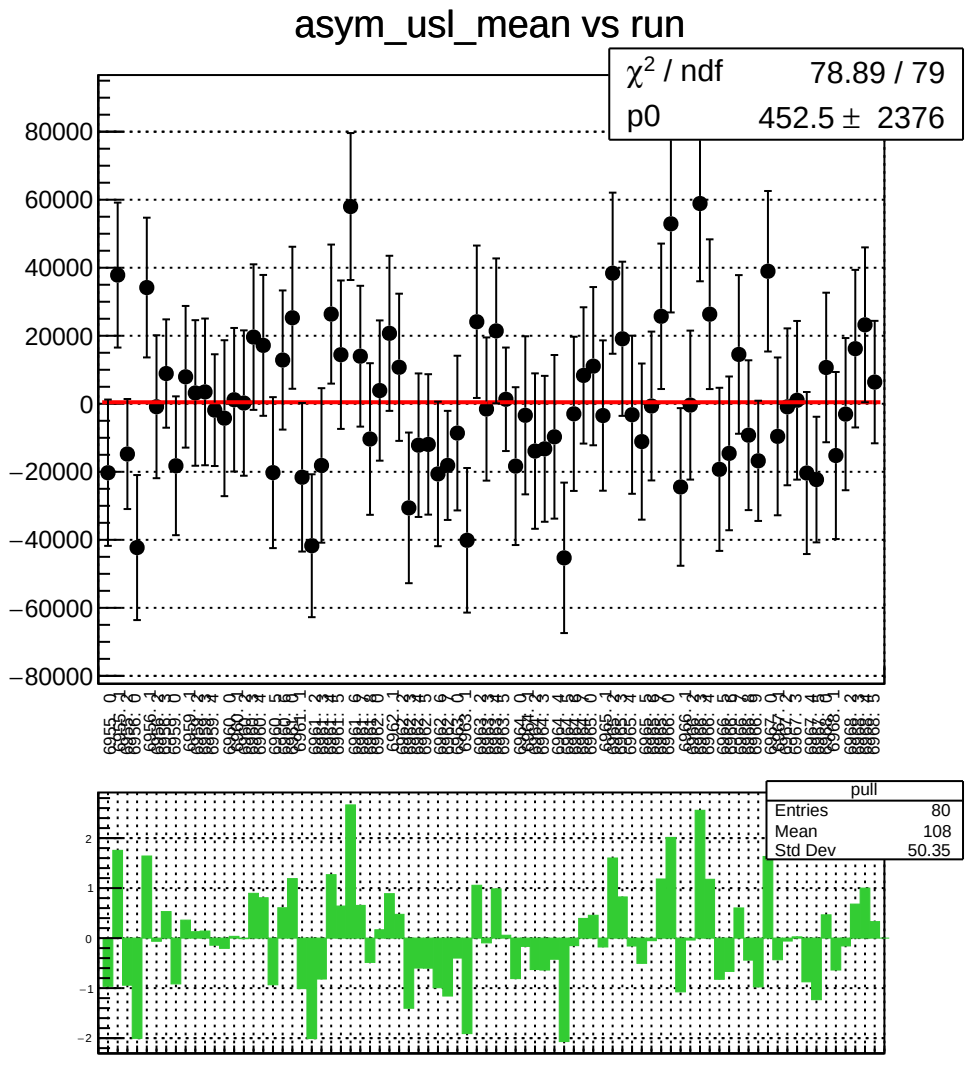

pull1D
Entries 80
Mean −0.001446
Std Dev 1.103
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

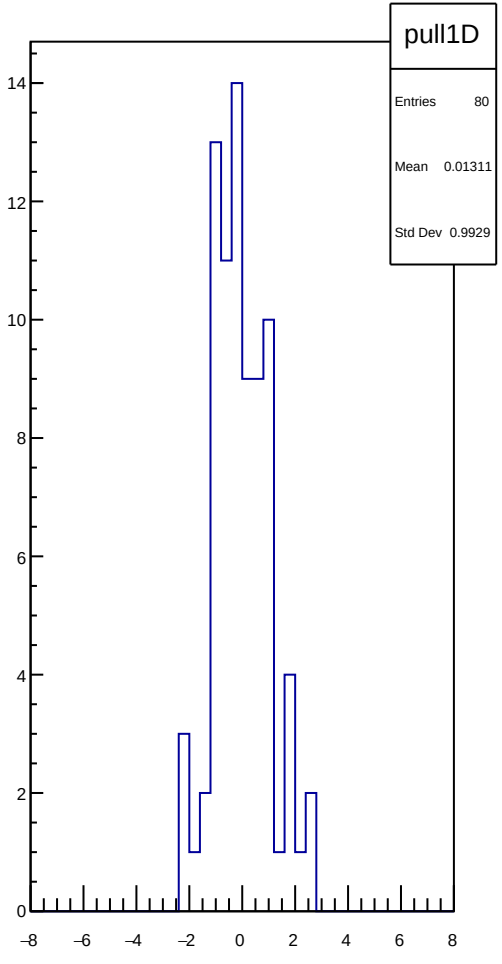

reg_asym_usl_rms vs run
χ² / ndf 68.78 / 79
p0 1116 ± 0.8929
1140
1130
1120
1110
1100
1090

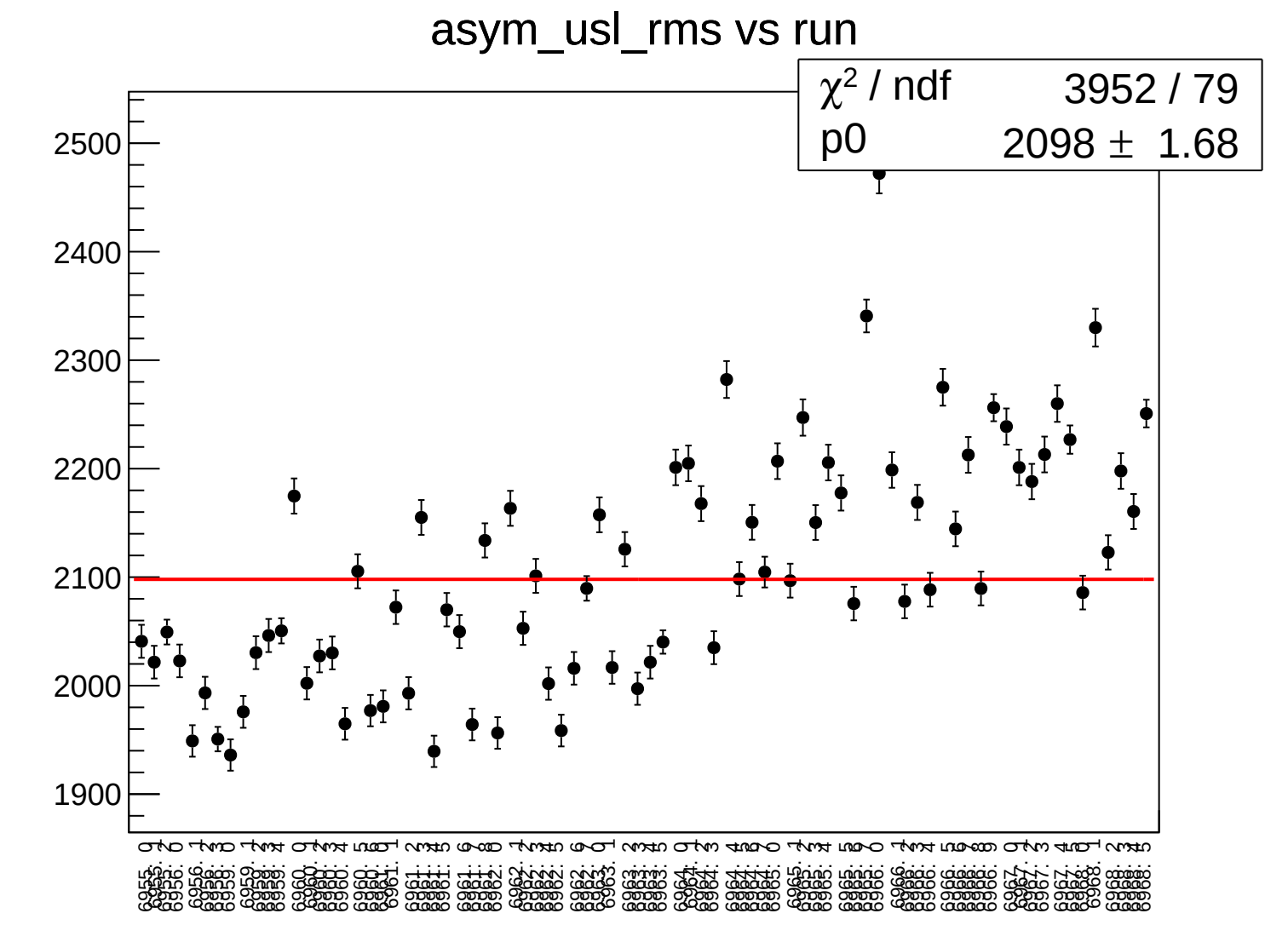

asym_usl_correction_mean vs run
χ² / ndf 80.04 / 79
p0 −1458 ± 2008
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 80
Mean 7.814
Std Dev 47.8
2
1
0
−1
−2

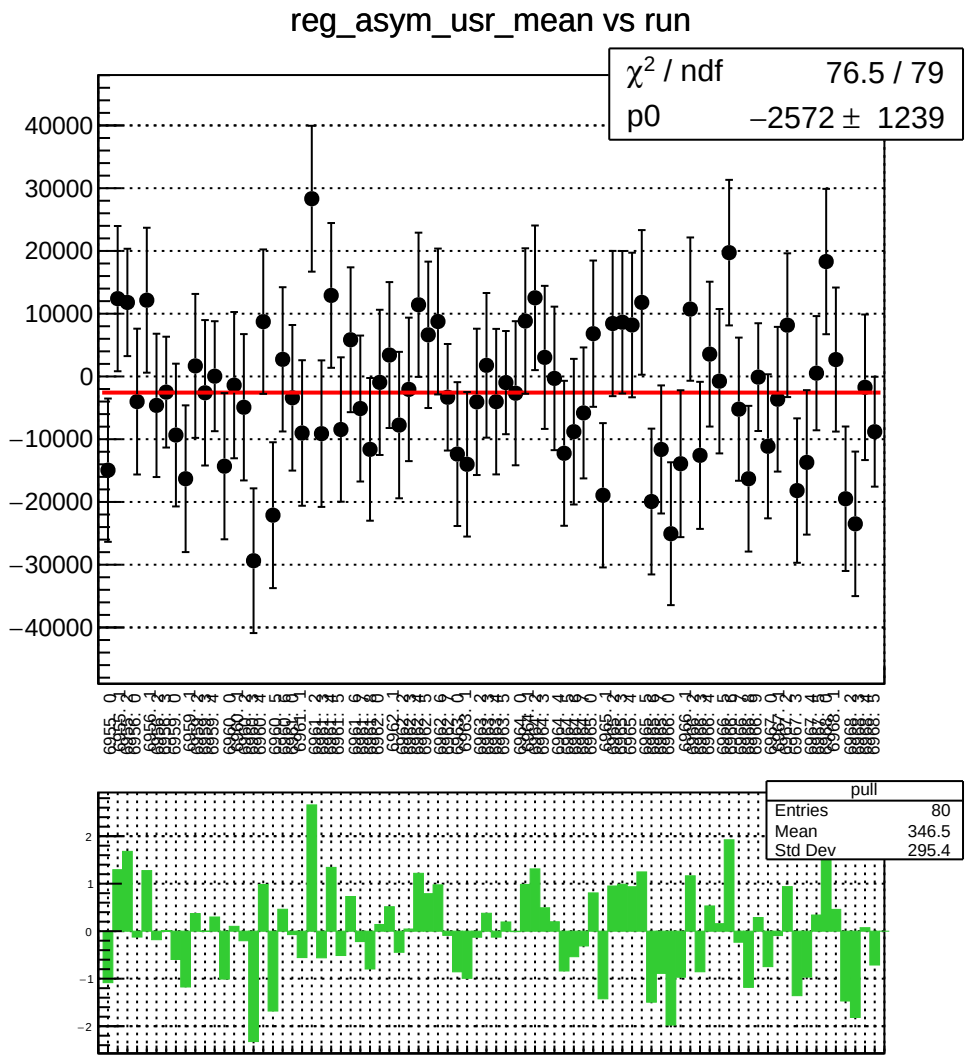

pull1D
Entries 80
Mean −0.01423
Std Dev 1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

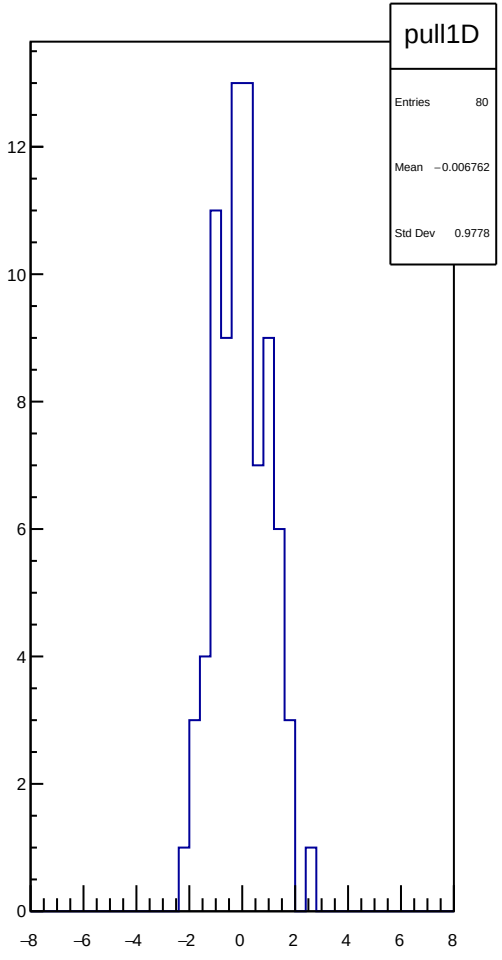

asym_usl_correction_rms vs run
χ² / ndf 7392 / 79
p0 1771 ± 1.42
2200
2100
2000
1900
1800
1700
1600

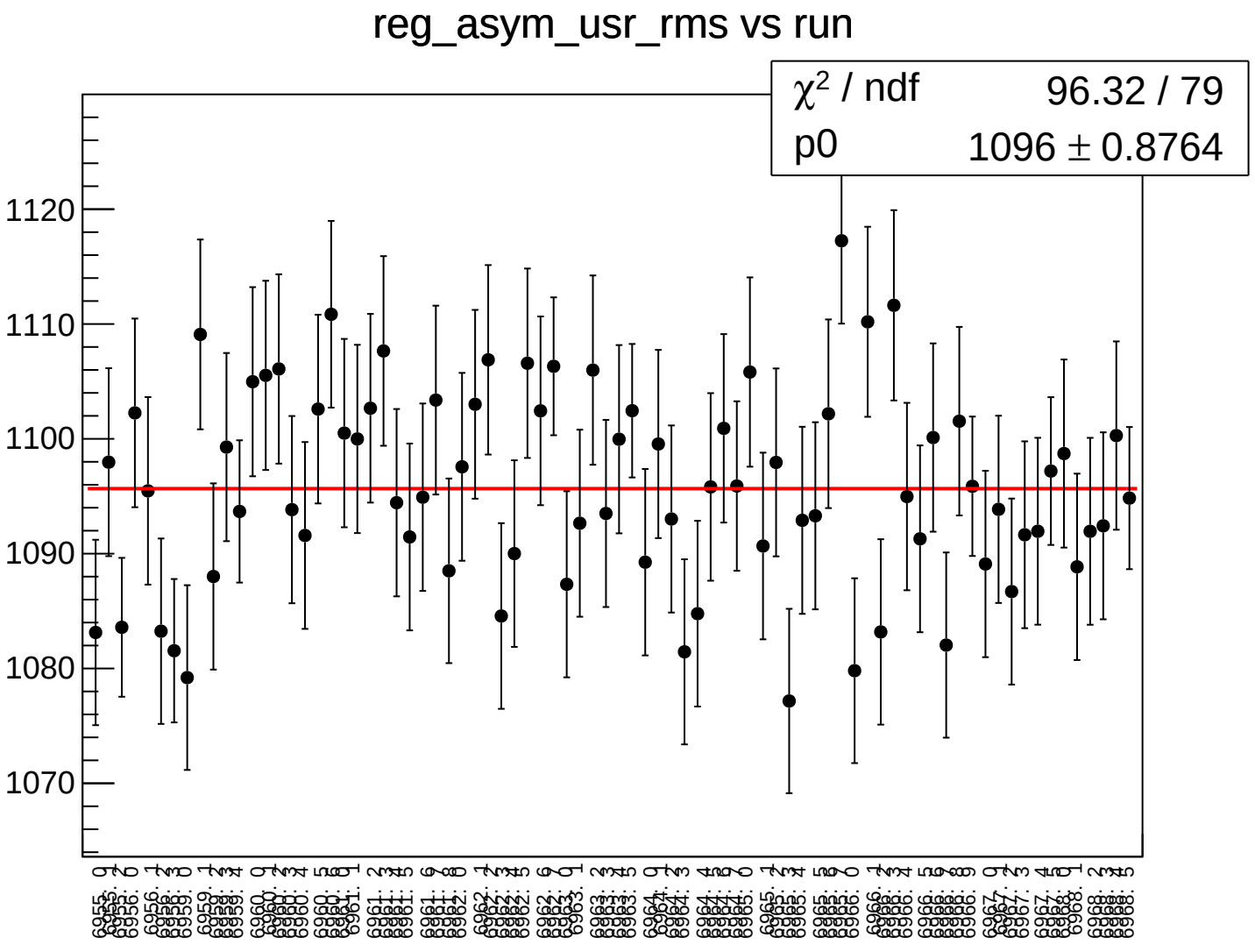

asym_usl_mean vs run
χ² / ndf 78.89 / 79
p0 452.5 ± 2376
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 80
Mean 108
Std Dev 50.35
2
1
0
−1
−2

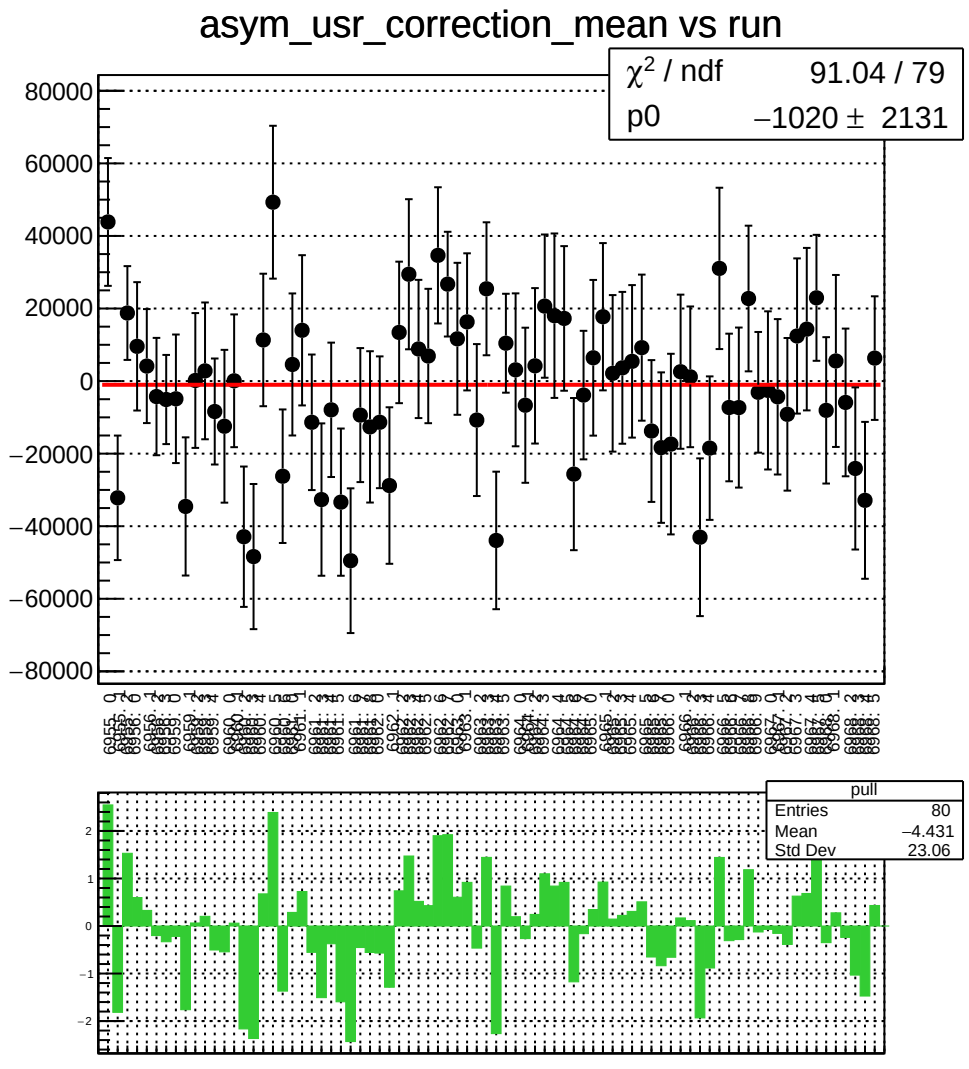

pull1D
Entries 80
Mean 0.01311
Std Dev 0.9929
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

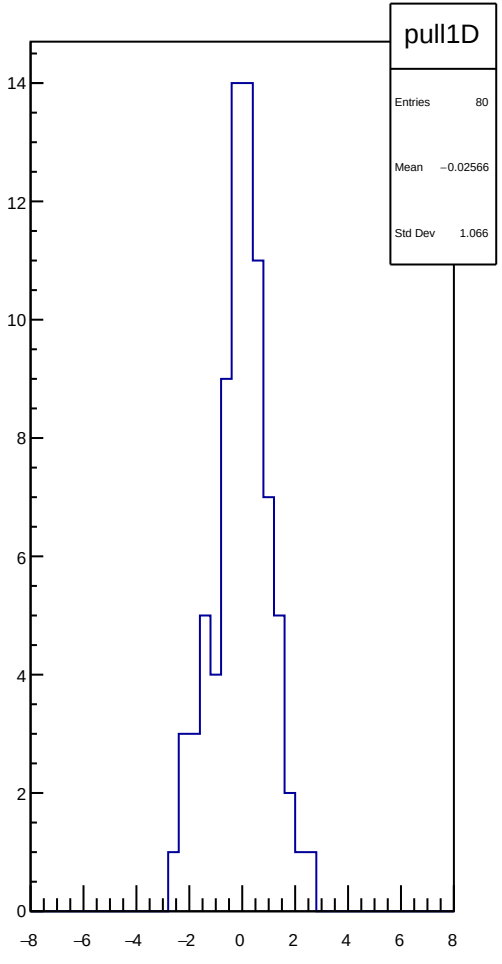

asym_usl_rms vs run
χ² / ndf 3952 / 79
p0 2098 ± 1.68
2500
2400
2300
2200
2100
2000
1900

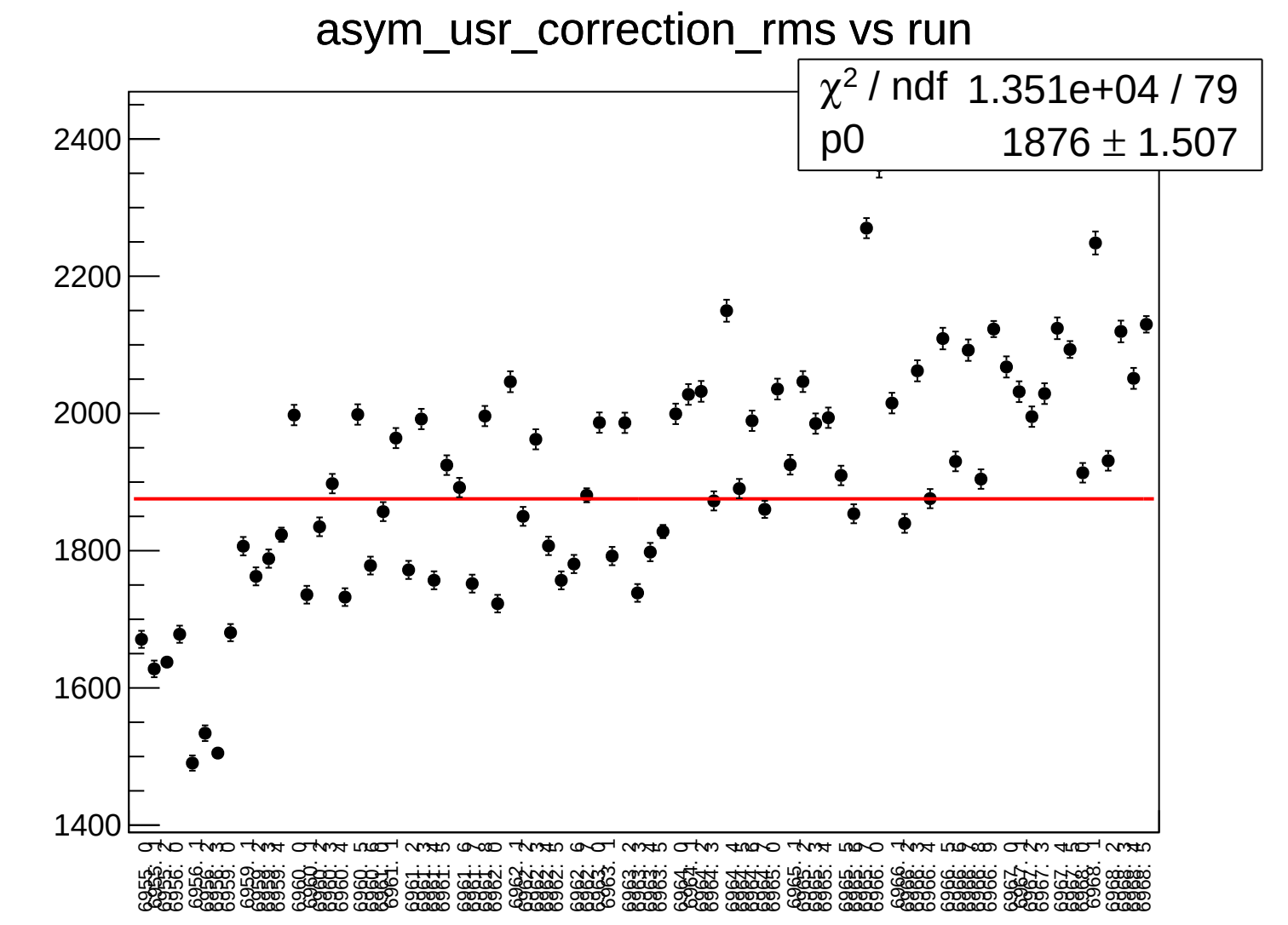

reg_asym_usr_mean vs run
χ² / ndf 76.5 / 79
p0 −2572 ± 1239
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 80
Mean 346.5
Std Dev 295.4
2
1
0
−1
−2

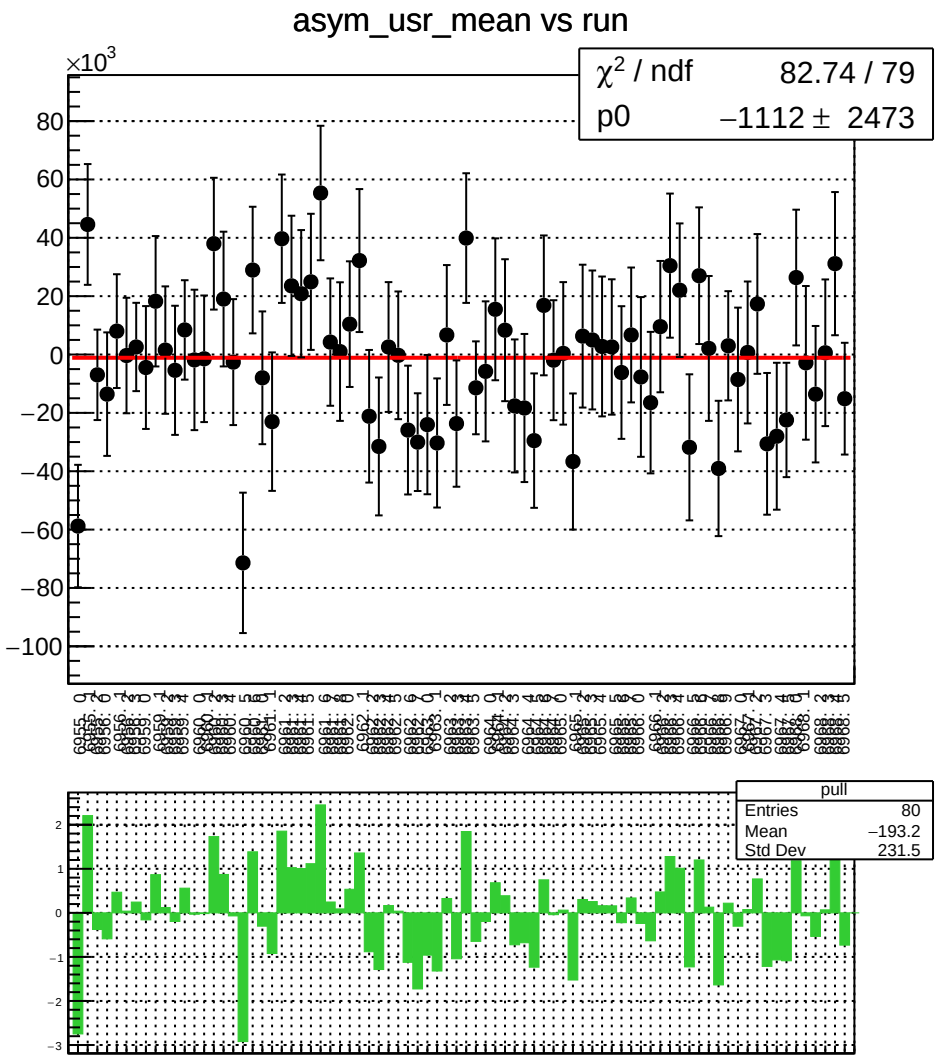

pull1D
Entries 80
Mean −0.006762
Std Dev 0.9778
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

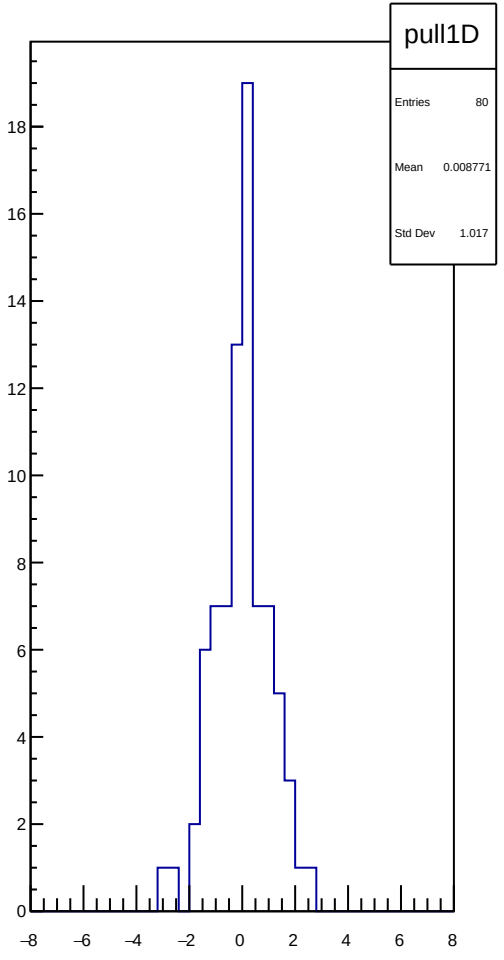

reg_asym_usr_rms vs run
χ² / ndf 96.32 / 79
p0 1096 ± 0.8764
1120
1110
1100
1090
1080
1070

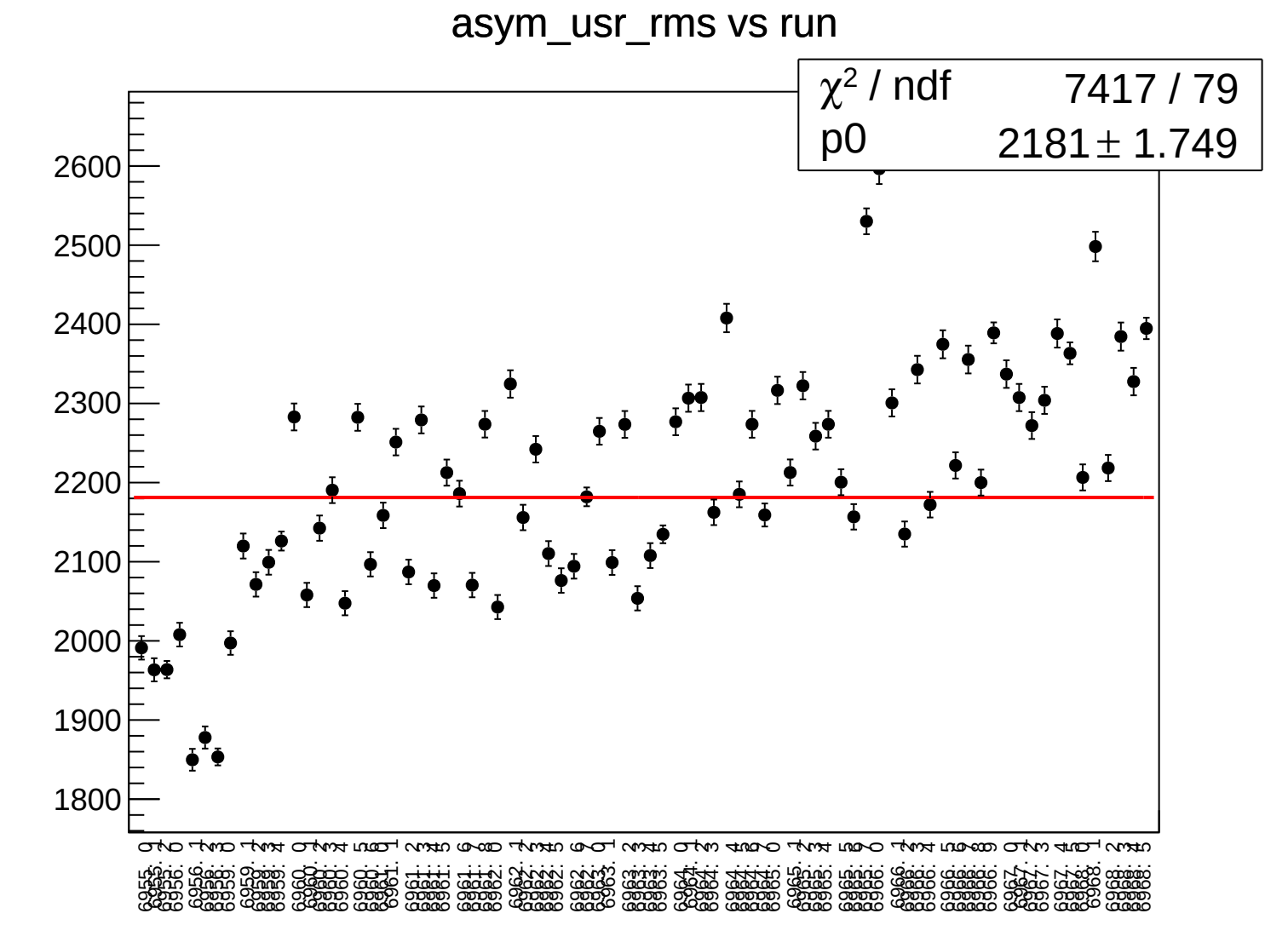

asym_usr_correction_mean vs run
χ² / ndf 91.04 / 79
p0 −1020 ± 2131
pull
Entries 80
Mean −4.431
Std Dev 23.06

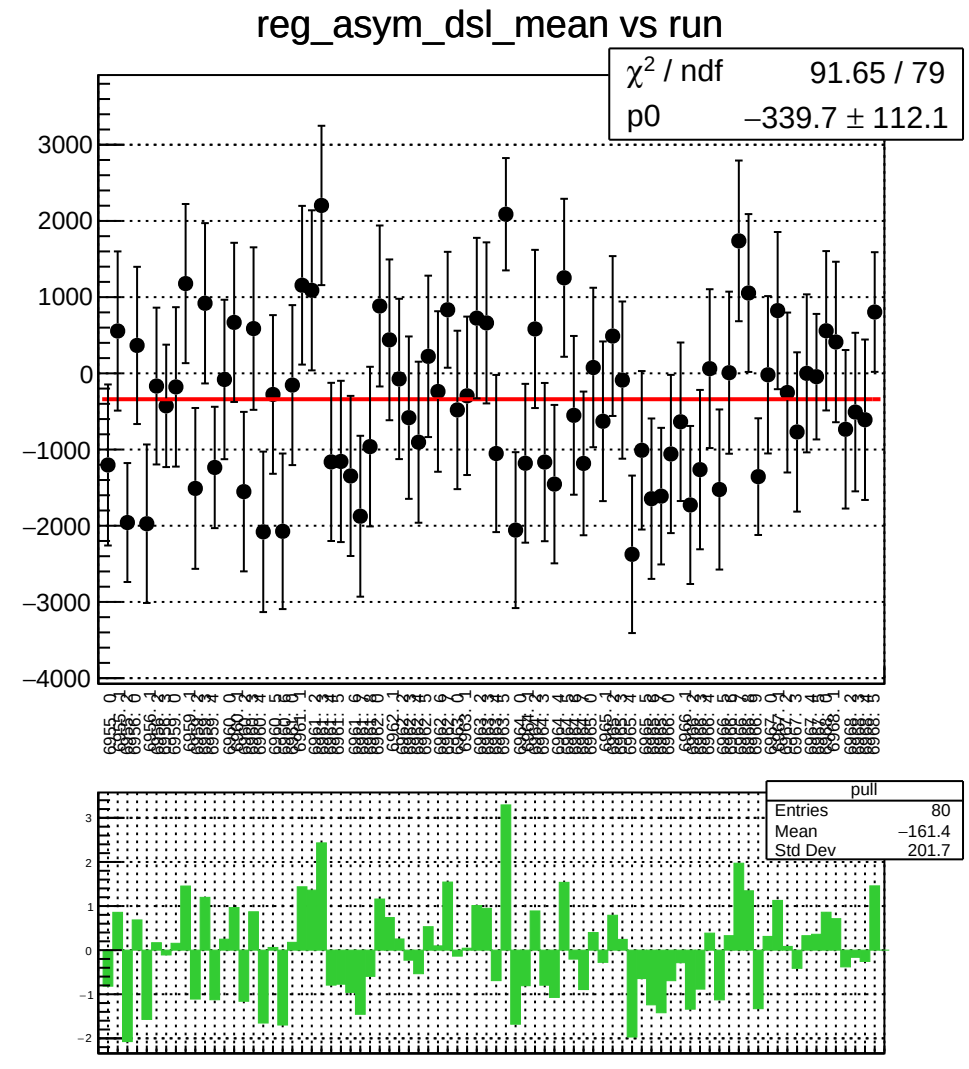

pull1D
Entries 80
Mean −0.02566
Std Dev 1.066

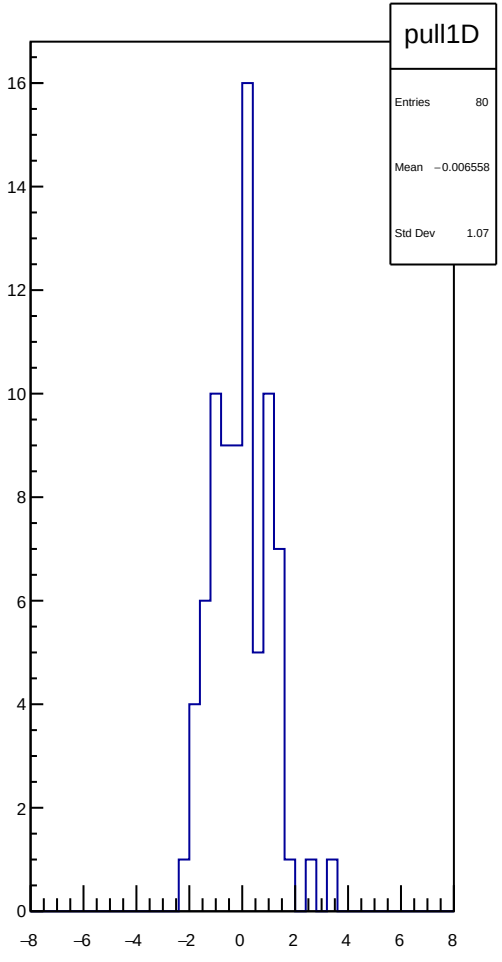

asym_usr_correction_rms vs run
χ² / ndf 1.351e+04 / 79
p0 1876 ± 1.507
2400
2200
2000
1800
1600
1400

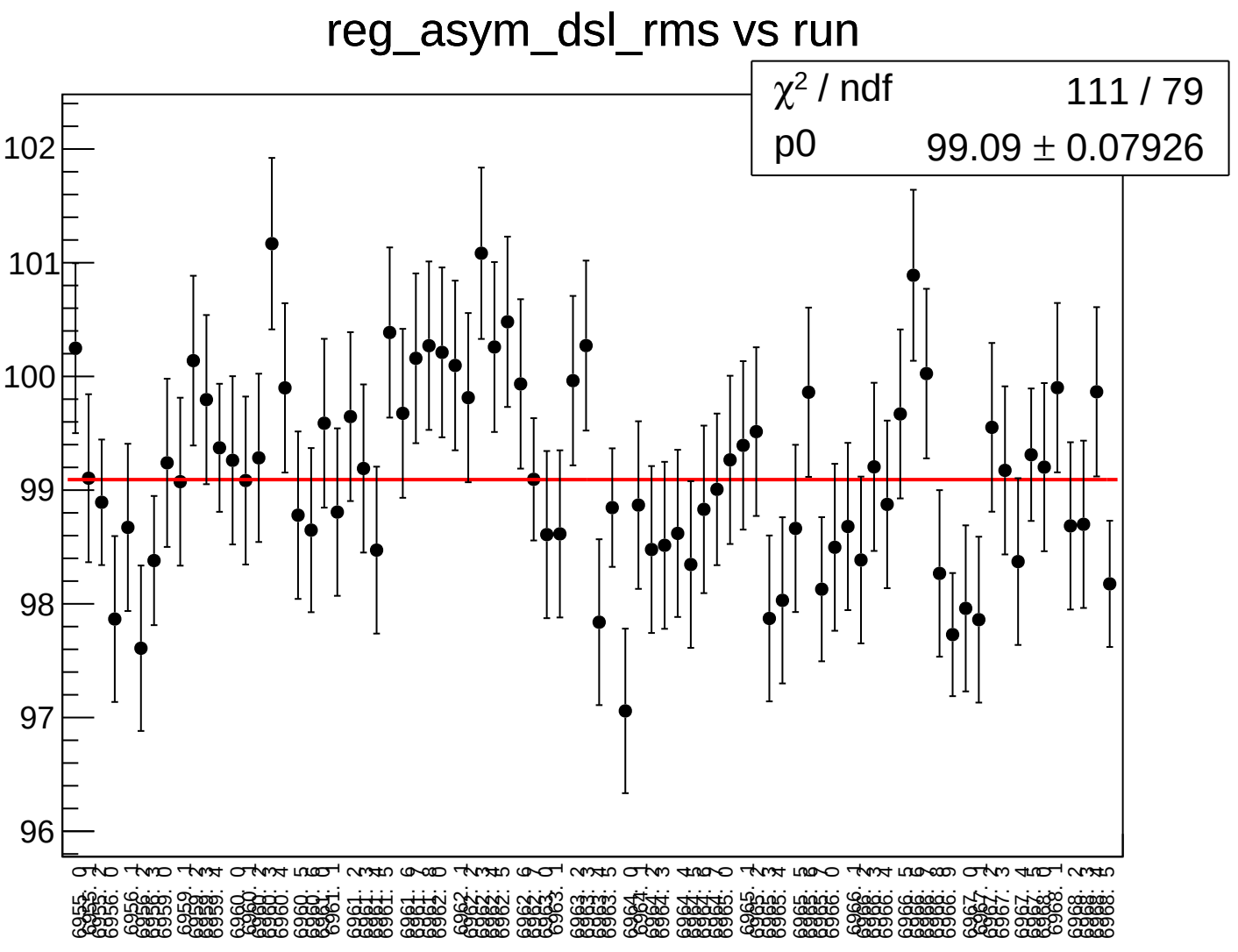

asym_usr_mean vs run
×10^3
χ² / ndf 82.74 / 79
p0 −1112 ± 2473
pull
Entries 80
Mean −193.2
Std Dev 231.5

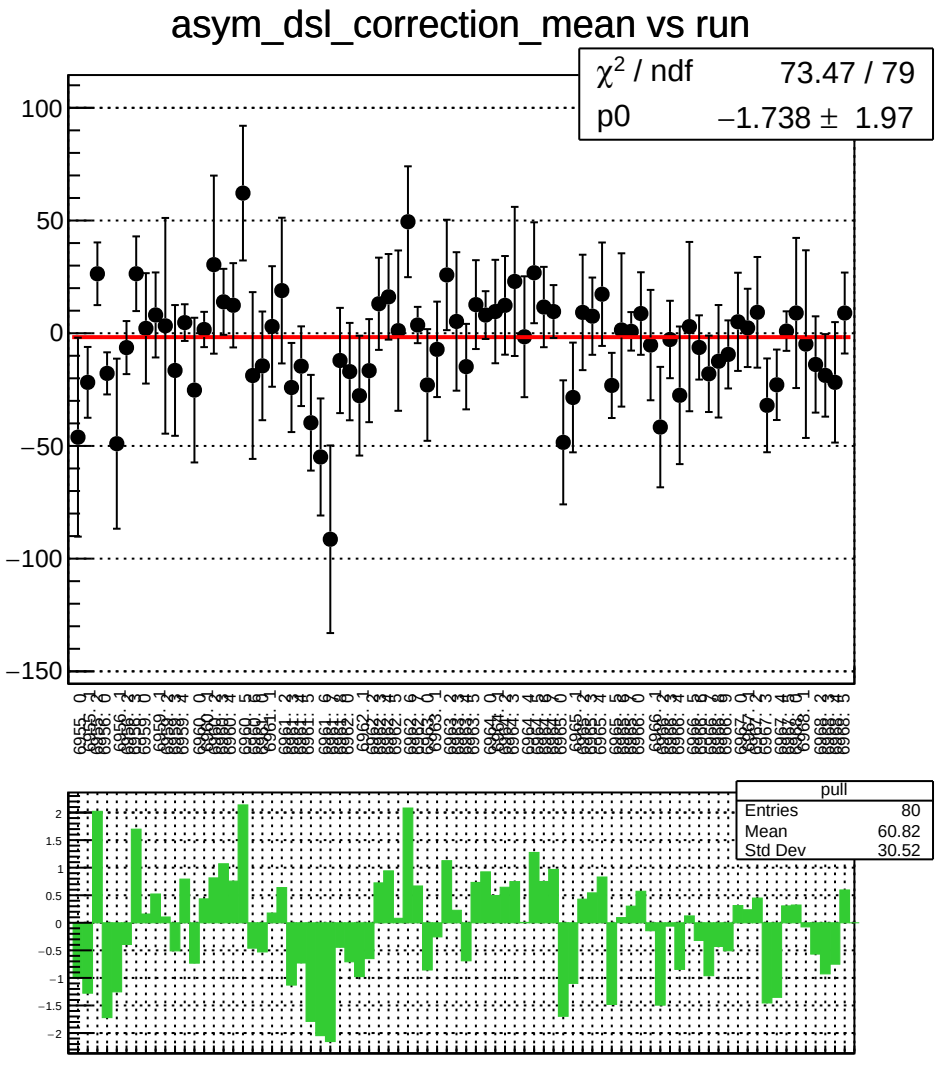

pull1D
Entries 80
Mean 0.008771
Std Dev 1.017

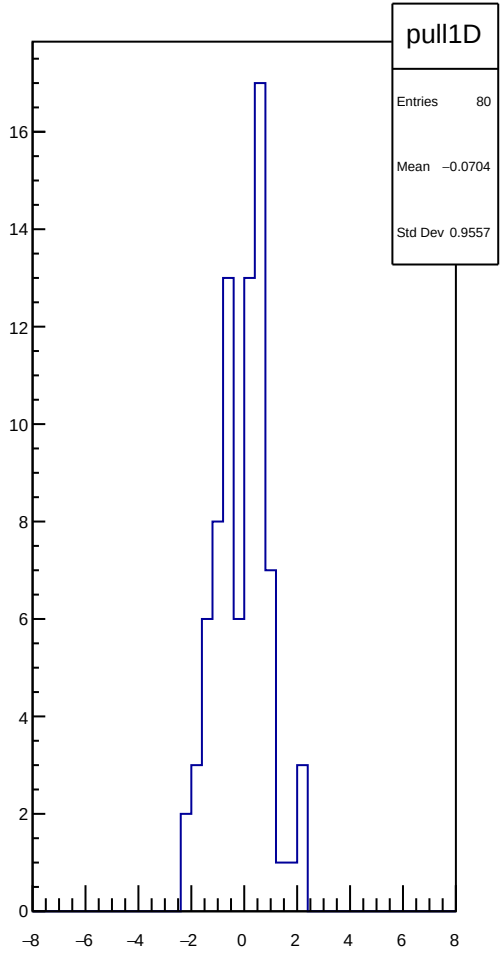

asym_usr_rms vs run
χ² / ndf 7417 / 79
p0 2181 ± 1.749
2600
2500
2400
2300
2200
2100
2000
1900
1800

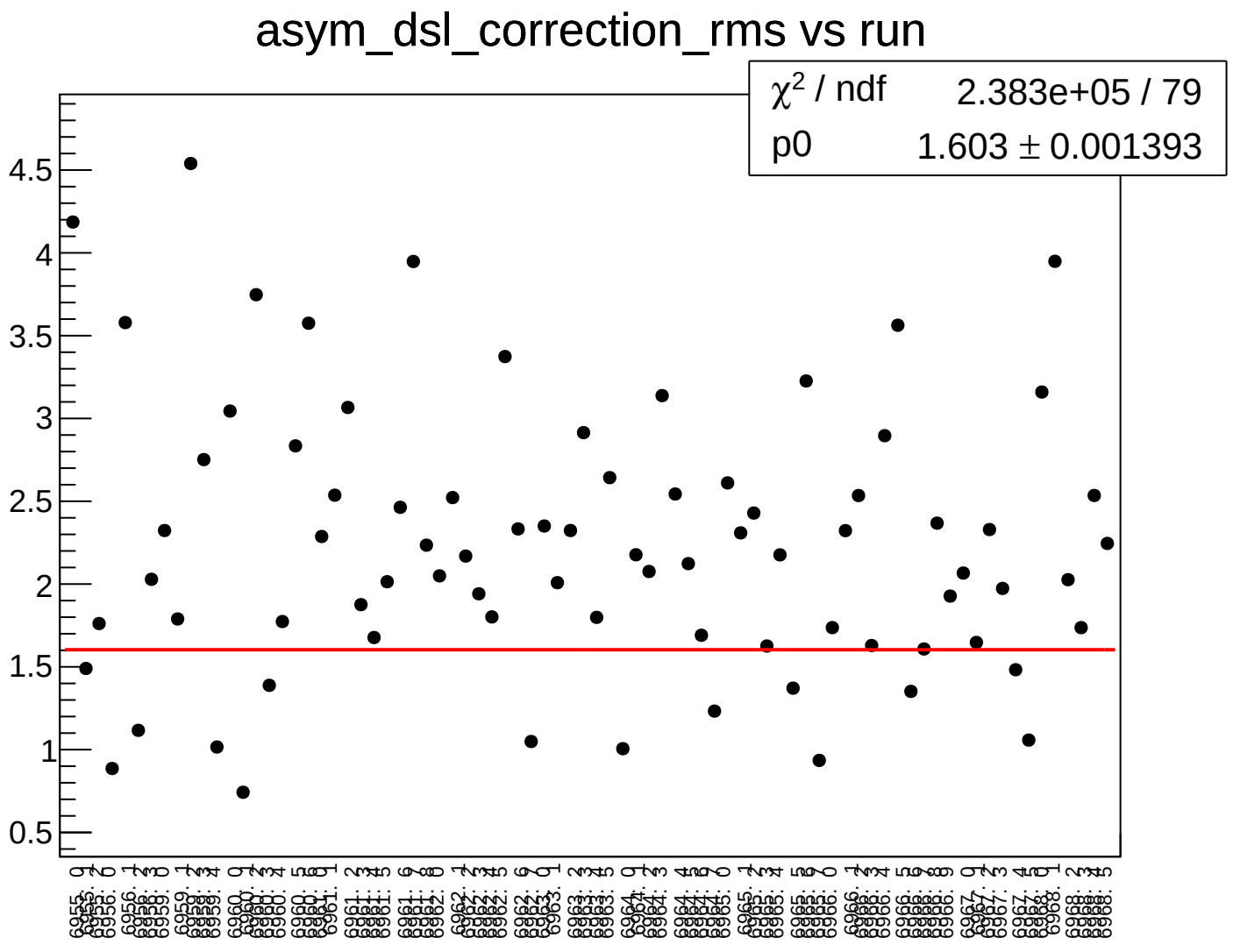

reg_asym_dsl_mean vs run
χ² / ndf 91.65 / 79
p0 −339.7 ± 112.1
pull
Entries 80
Mean −161.4
Std Dev 201.7

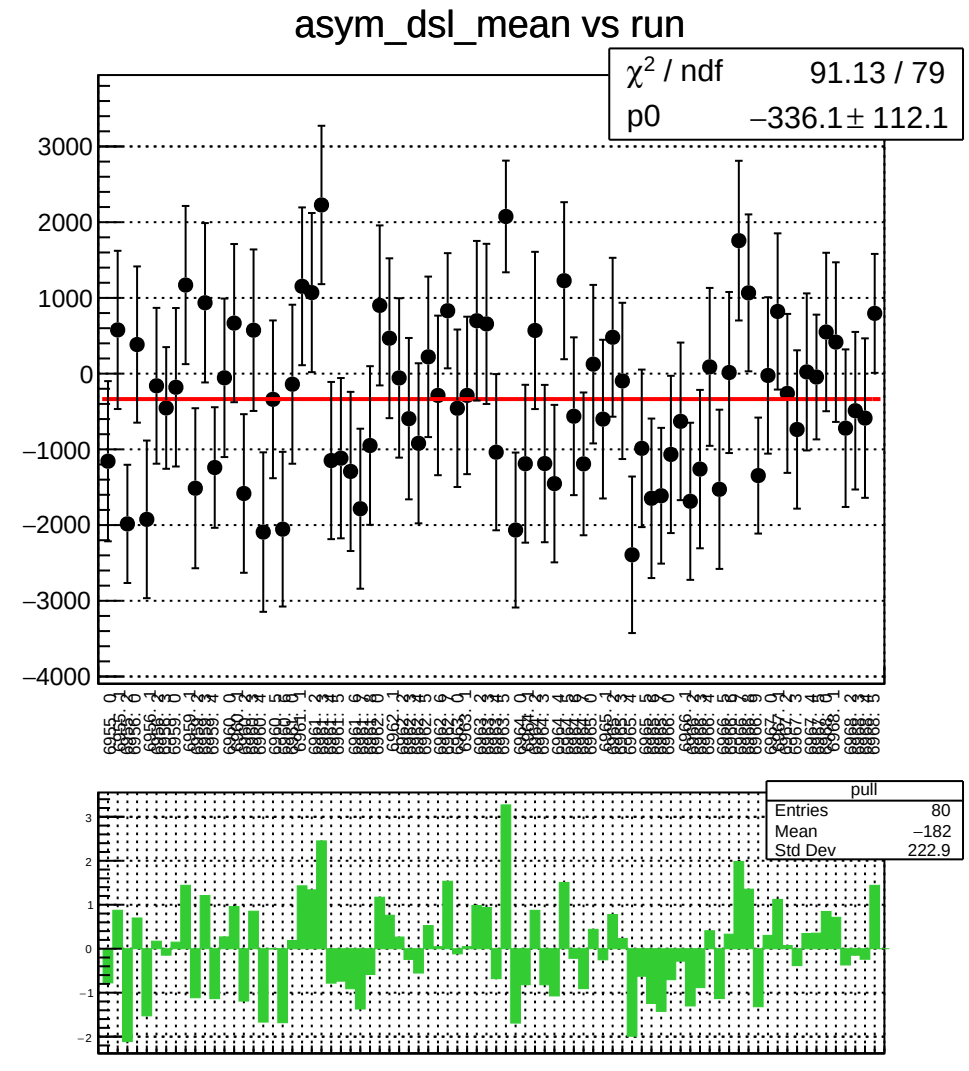

pull1D
Entries 80
Mean −0.006558
Std Dev 1.07

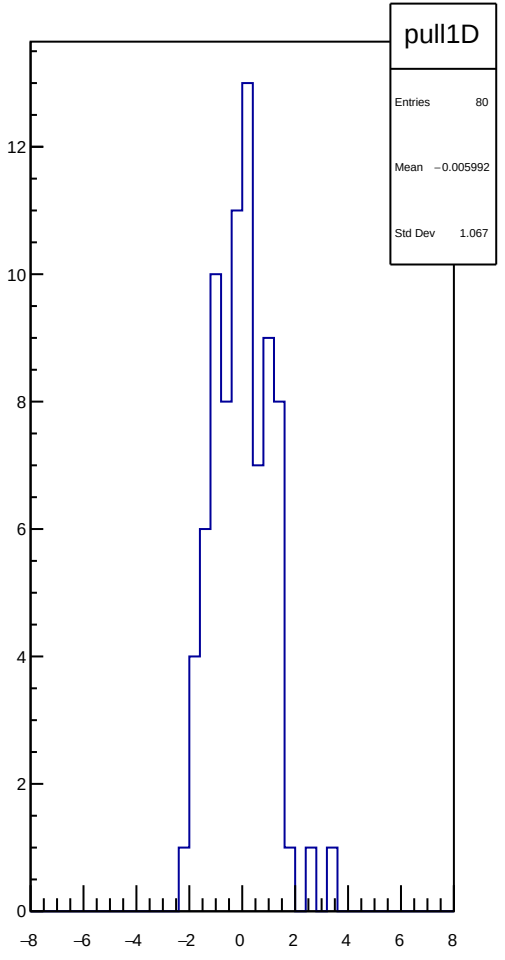

reg_asym_dsl_rms vs run
χ² / ndf 111 / 79
p0 99.09 ± 0.07926
102
101
100
99
98
97
96

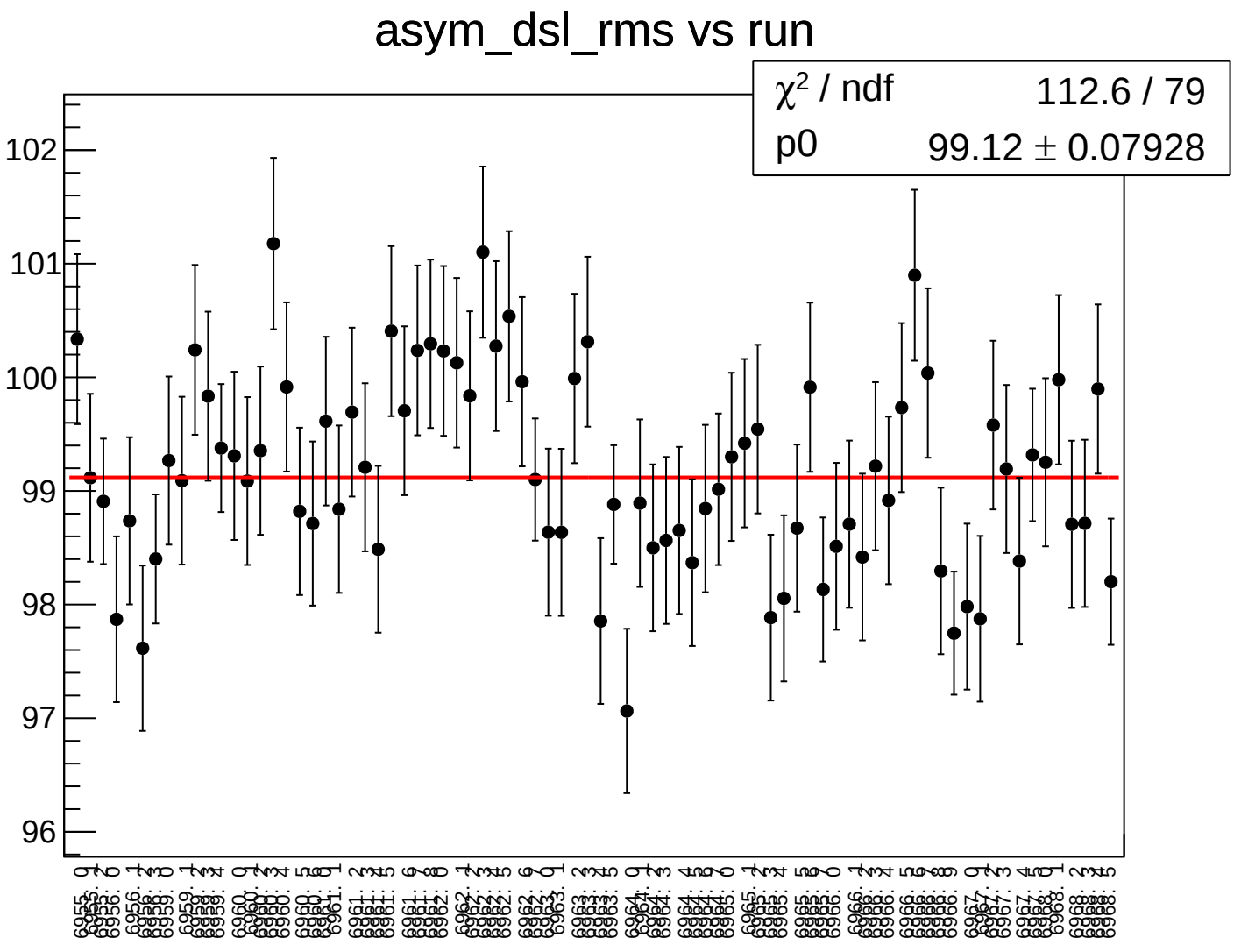

asym_dsl_correction_mean vs run
χ² / ndf 73.47 / 79
p0 −1.738 ± 1.97
100
50
0
−50
−100
−150
pull
Entries 80
Mean 60.82
Std Dev 30.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

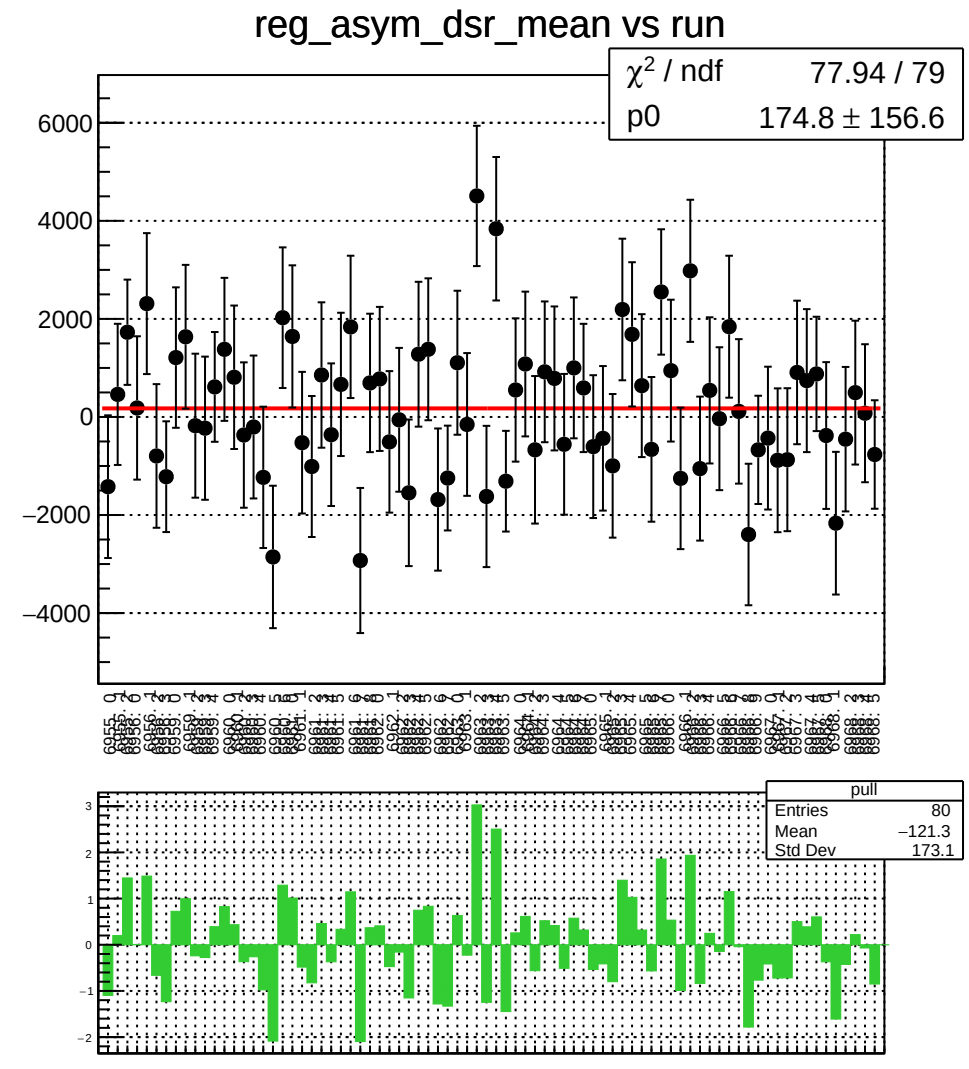

pull1D
Entries 80
Mean −0.0704
Std Dev 0.9557
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

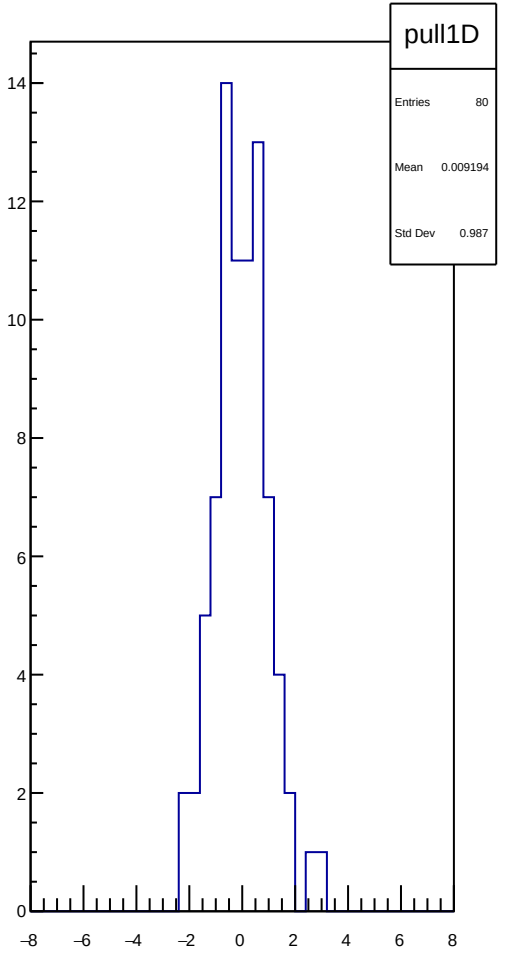

asym_dsl_correction_rms vs run
χ^2 / ndf 2.383e+05 / 79
p0 1.603 ± 0.001393
4.5
4
3.5
3
2.5
2
1.5
1
0.5

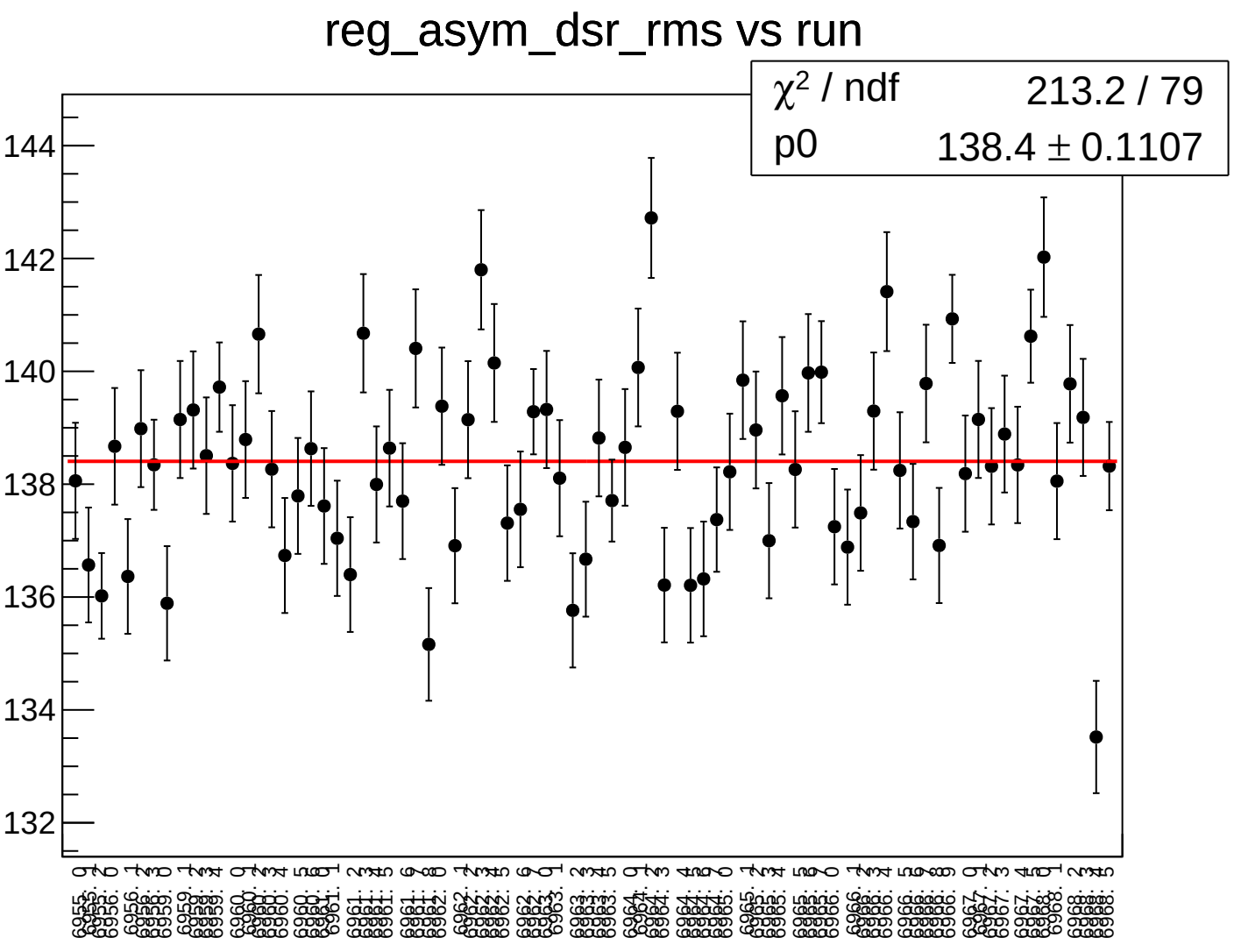

asym_dsl_mean vs run
χ² / ndf 91.13 / 79
p0 −336.1 ± 112.1
pull
Entries 80
Mean −182
Std Dev 222.9

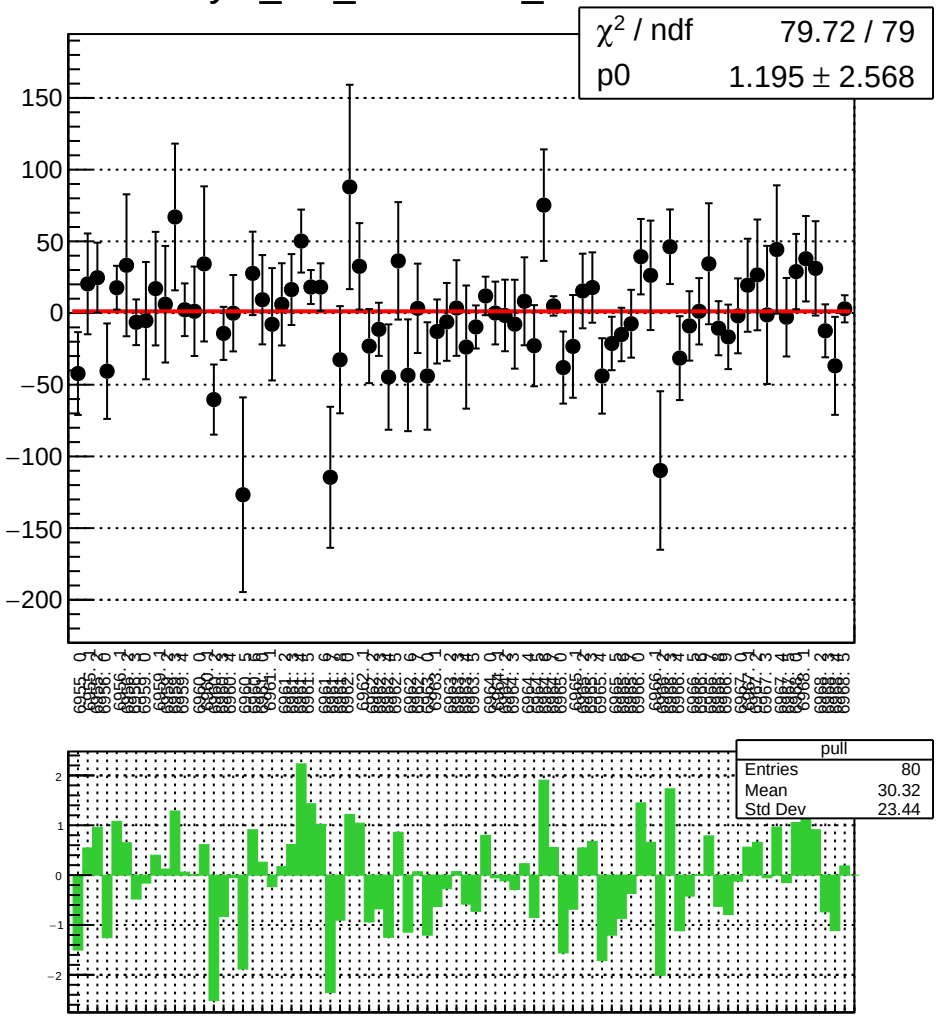

pull1D
Entries 80
Mean −0.005992
Std Dev 1.067

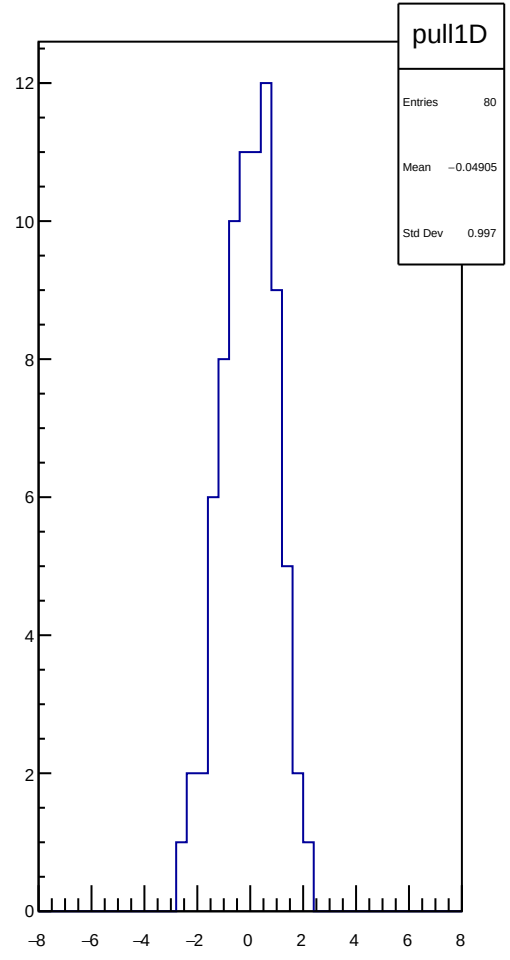

asym_dsl_rms vs run
χ² / ndf 112.6 / 79
p0 99.12 ± 0.07928
102
101
100
99
98
97
96

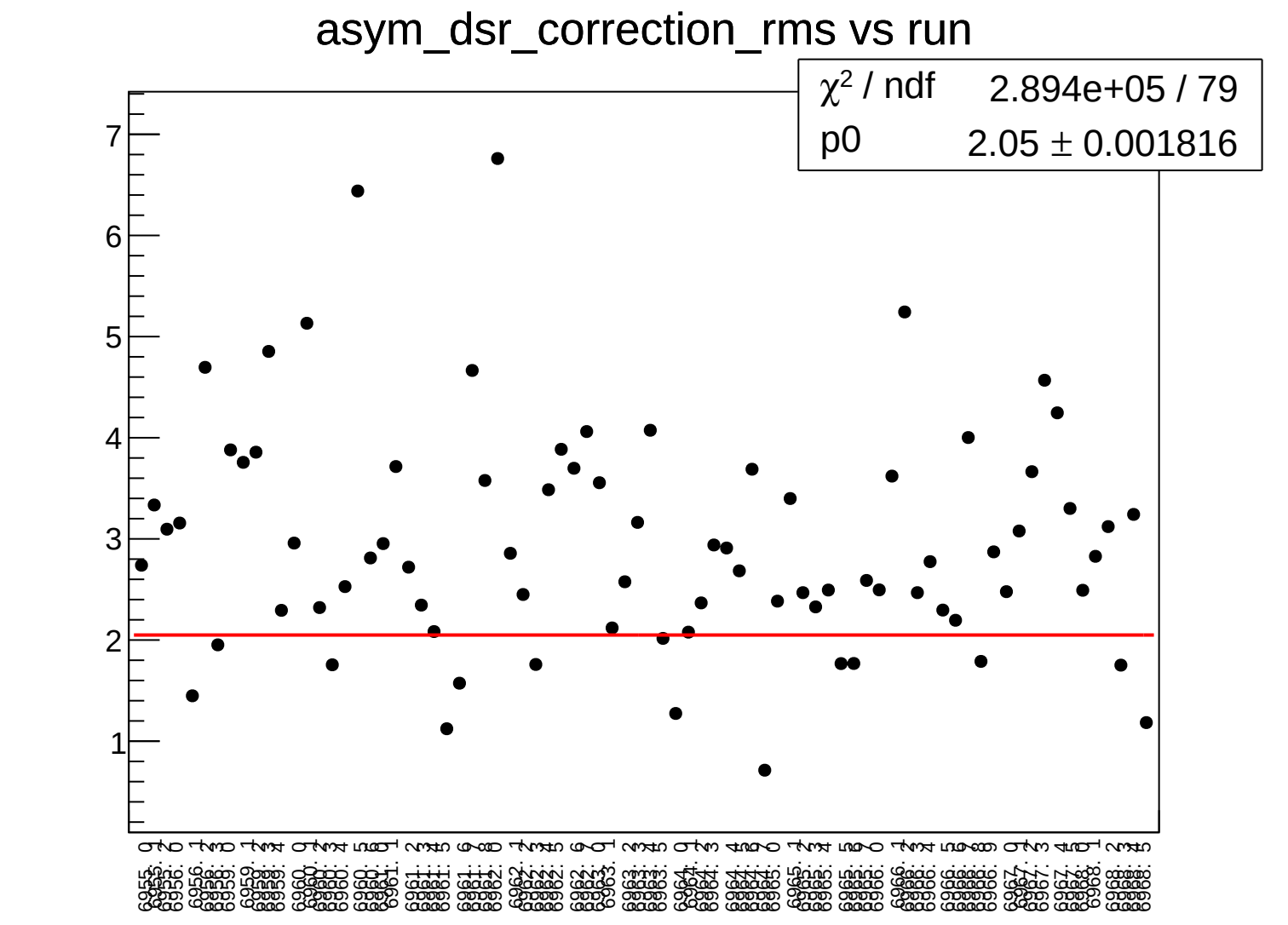

reg_asym_dsr_mean vs run
χ^2 / ndf 77.94 / 79
p0 174.8 ± 156.6
6000
4000
2000
0
−2000
−4000
pull
Entries 80
Mean −121.3
Std Dev 173.1
3
2
1
0
−1
−2

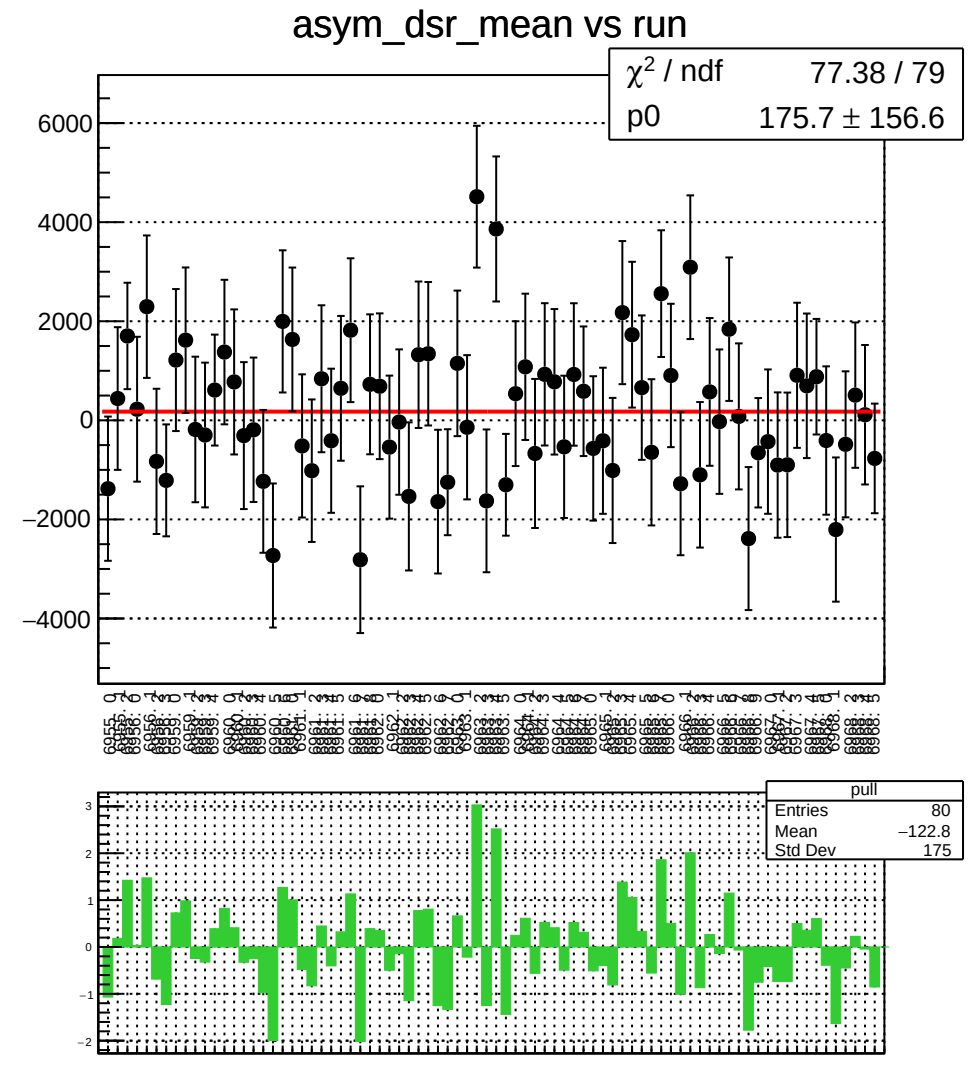

pull1D
Entries 80
Mean 0.009194
Std Dev 0.987
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

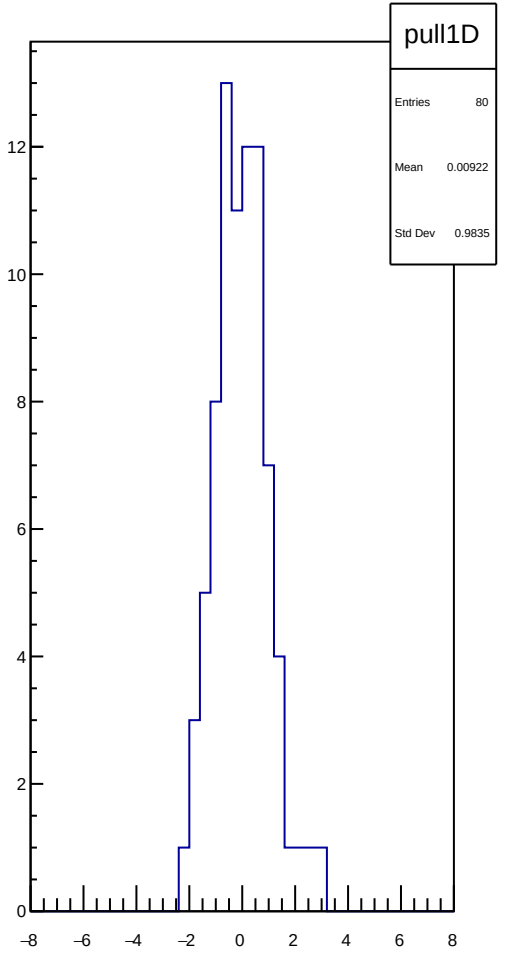

reg_asym_dsr_rms vs run
χ² / ndf 213.2 / 79
p0 138.4 ± 0.1107
144
142
140
138
136
134
132

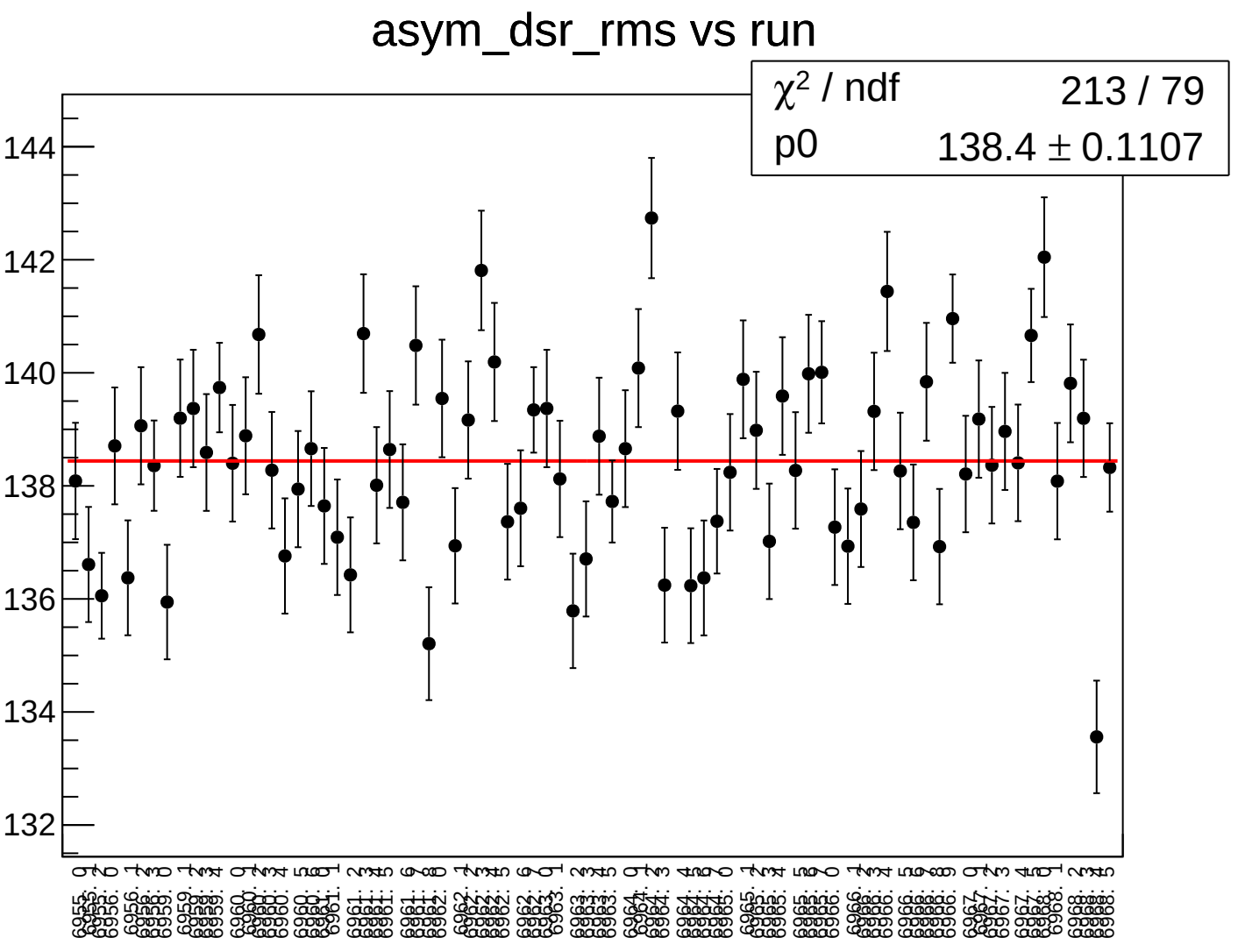

asym_dsr_correction_mean vs run
χ² / ndf 79.72 / 79
p0 1.195 ± 2.568
150
100
50
0
−50
−100
−150
−200
pull
Entries 80
Mean 30.32
Std Dev 23.44
2
1
0
−1
−2

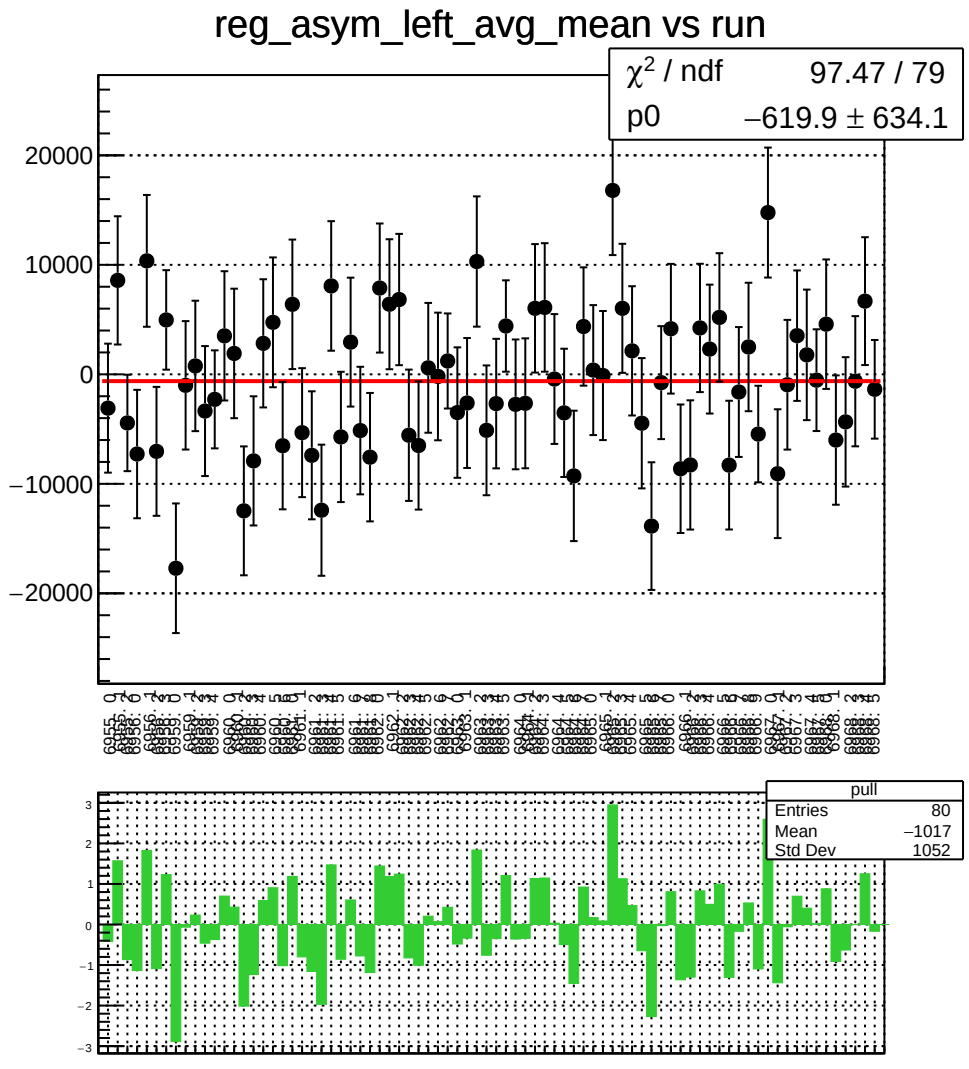

pull1D
Entries 80
Mean −0.04905
Std Dev 0.997
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

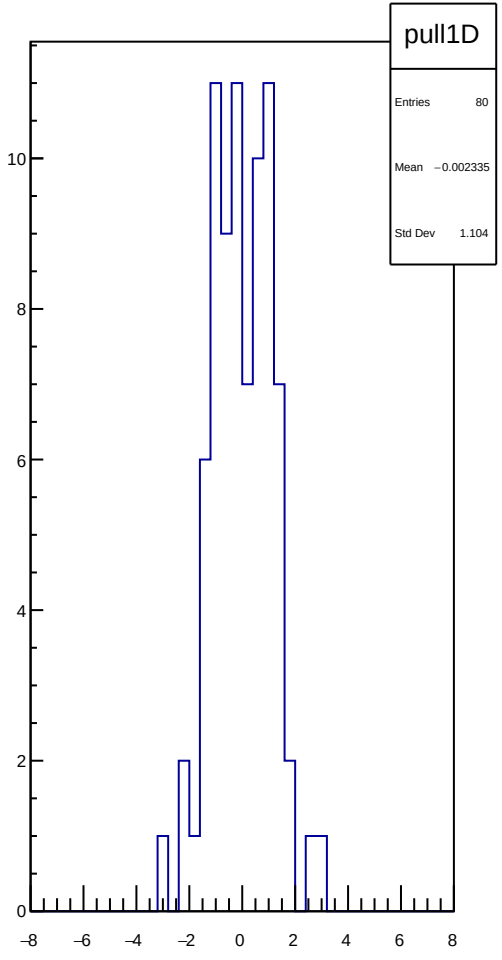

asym_dsr_correction_rms vs run
χ^2 / ndf 2.894e+05 / 79
p0 2.05 ± 0.001816
7
6
5
4
3
2
1

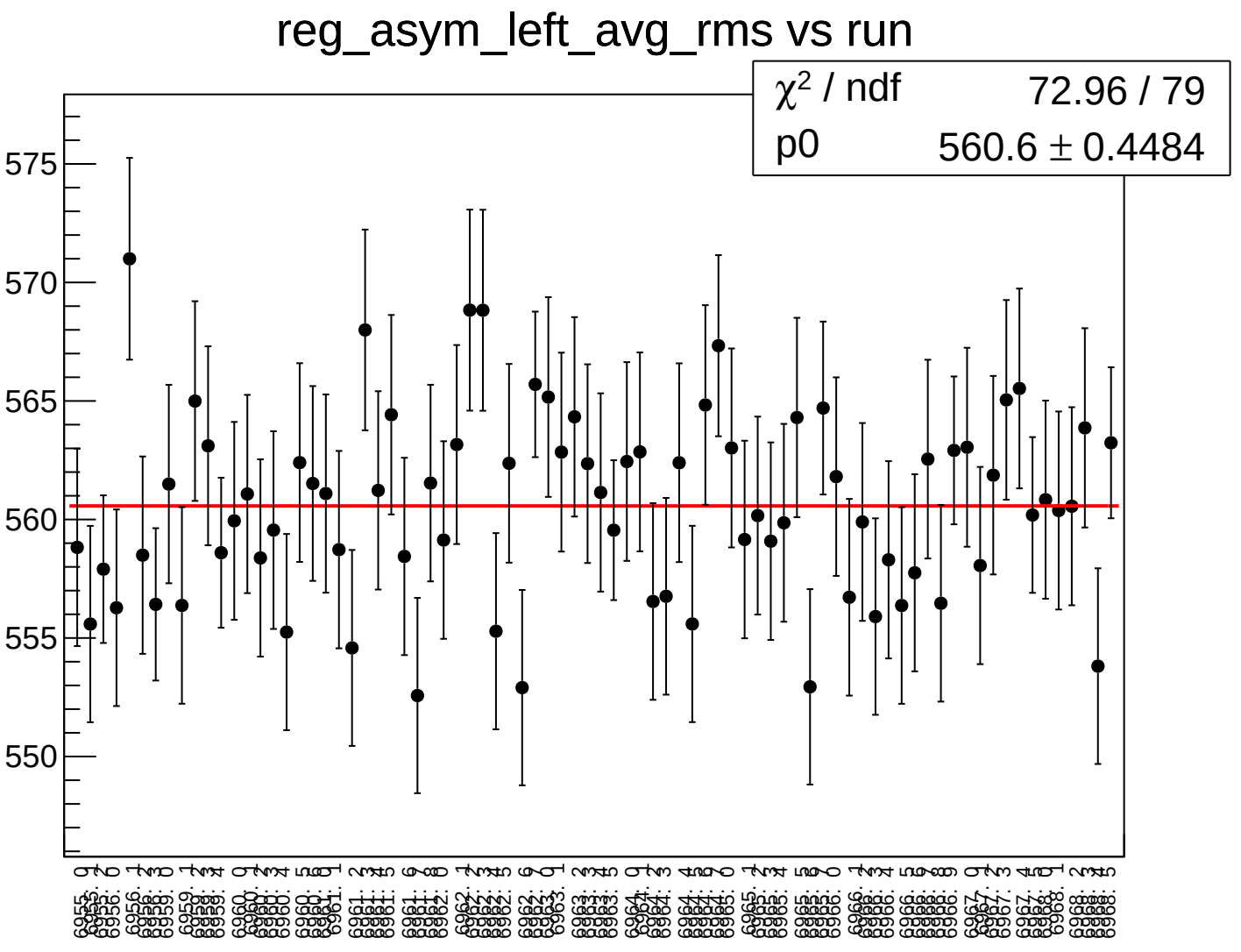

asym_dsr_mean vs run
χ² / ndf 77.38 / 79
p0 175.7 ± 156.6
6000
4000
2000
0
−2000
−4000
pull
Entries 80
Mean −122.8
Std Dev 175
3
2
1
0
−1
−2

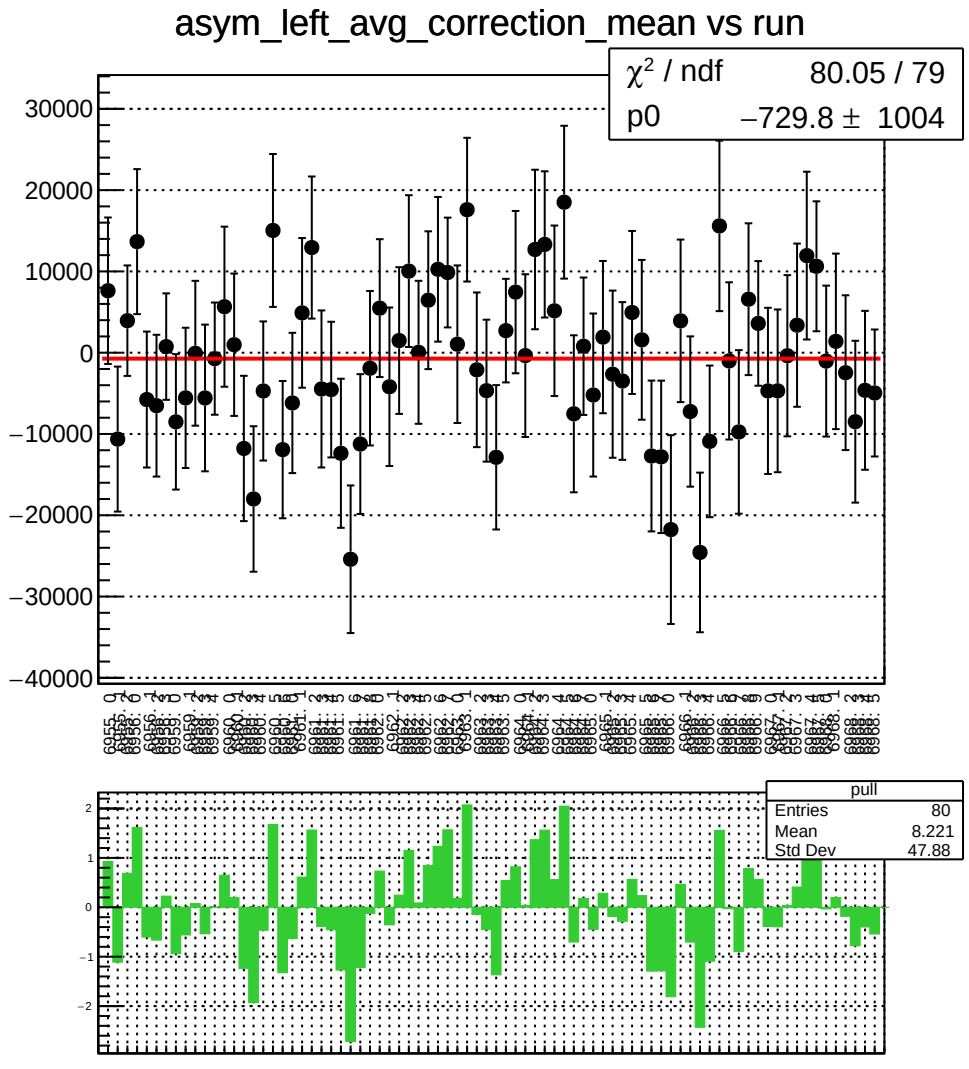

pull1D
Entries 80
Mean 0.00922
Std Dev 0.9835
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

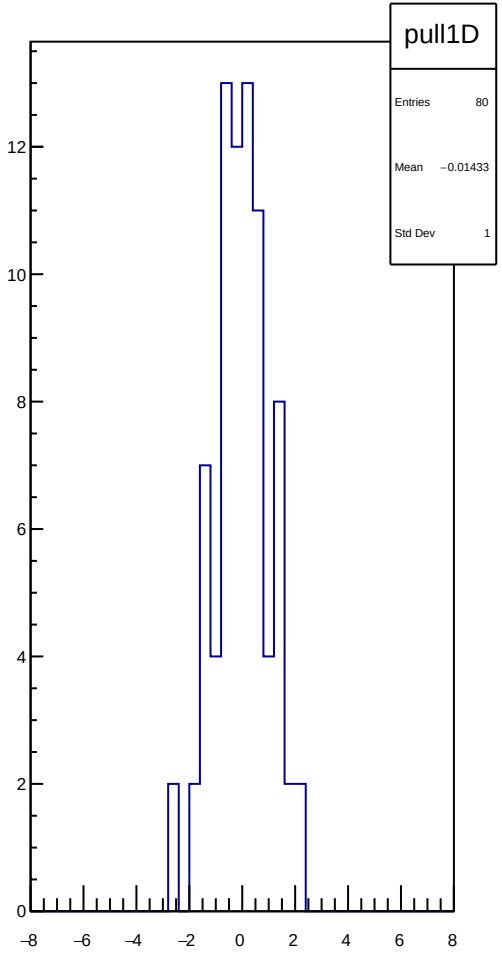

asym_dsr_rms vs run
χ² / ndf 213 / 79
p0 138.4 ± 0.1107
144
142
140
138
136
134
132

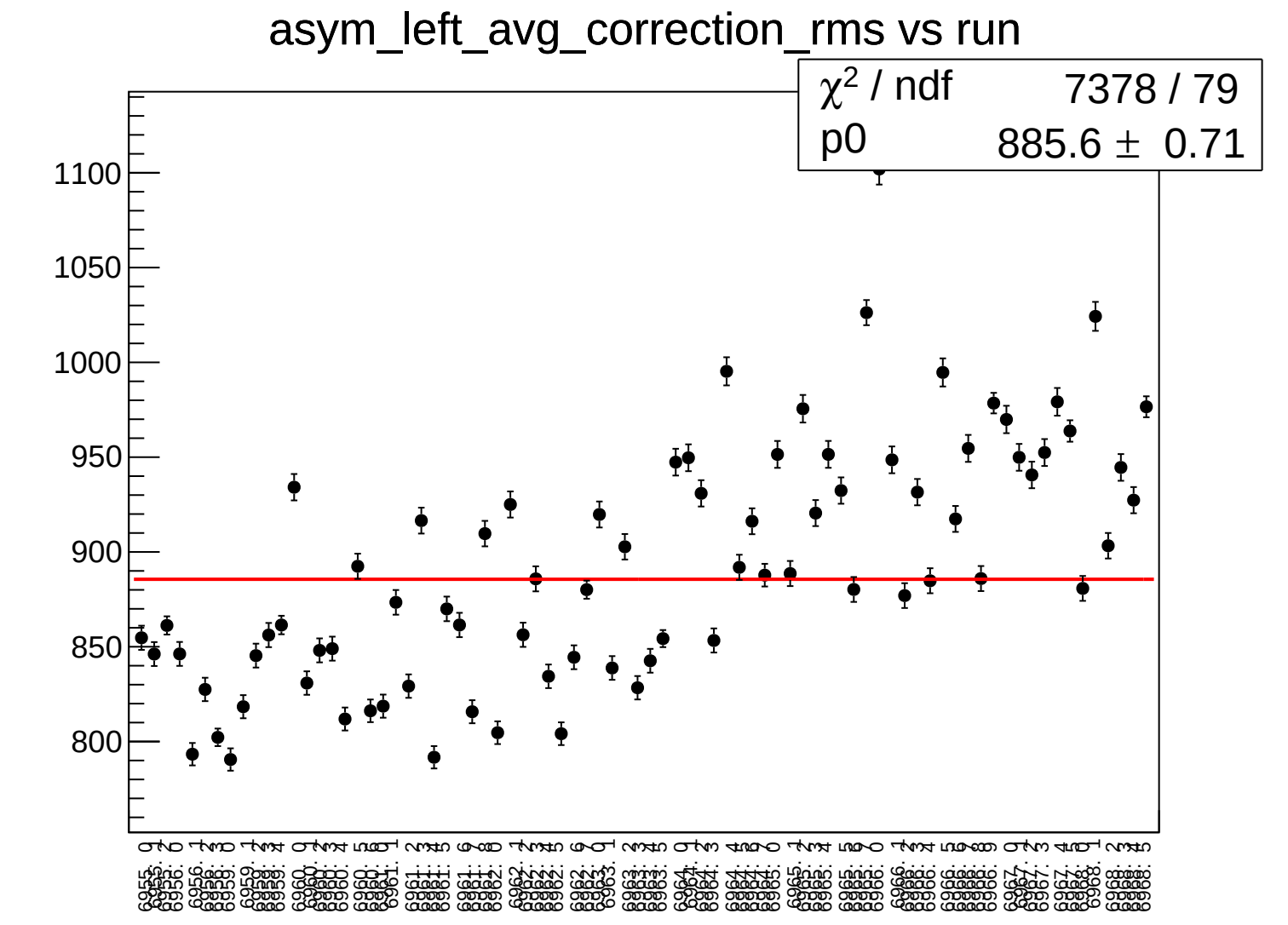

reg_asym_left_avg_mean vs run
χ² / ndf 97.47 / 79
p0 −619.9 ± 634.1
20000
10000
0
−10000
−20000
pull
Entries 80
Mean −1017
Std Dev 1052
3
2
1
0
−1
−2
−3

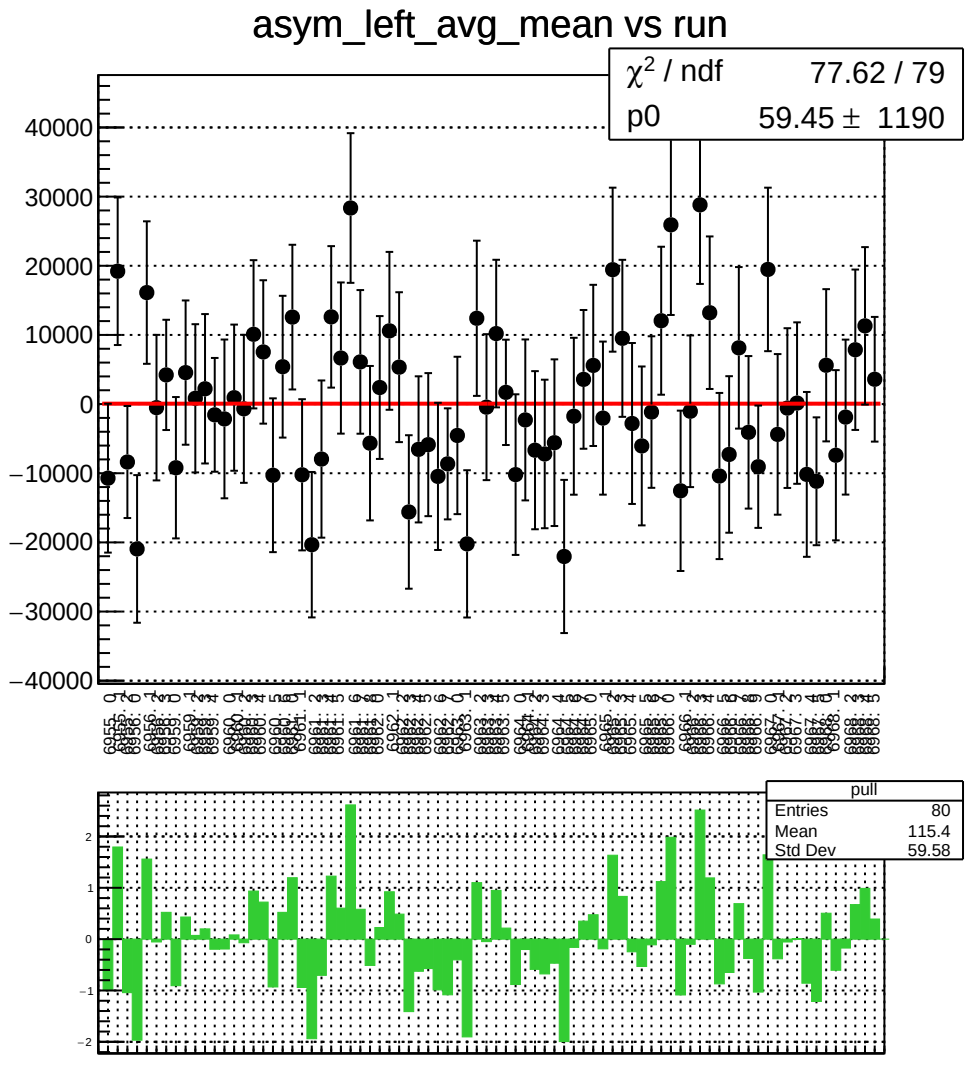

pull1D
Entries 80
Mean −0.002335
Std Dev 1.104
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

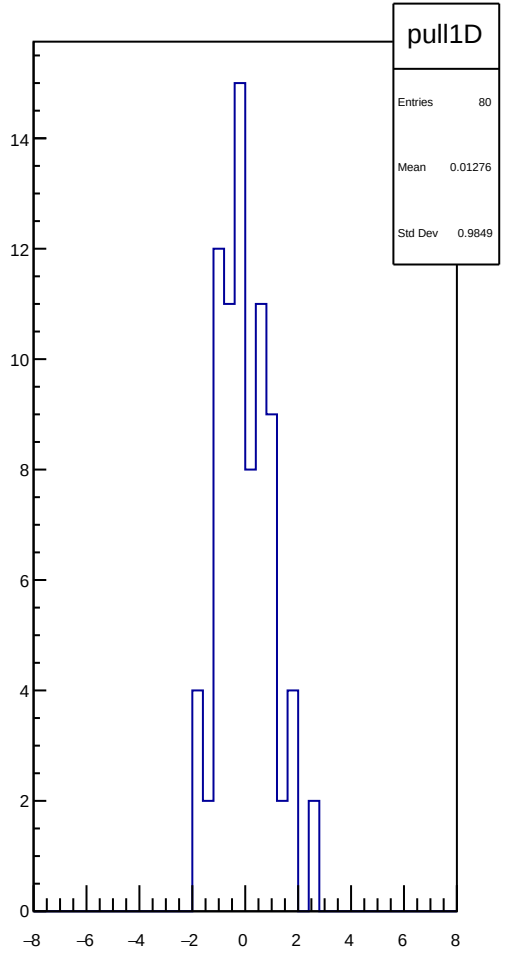

reg_asym_left_avg_rms vs run
χ² / ndf 72.96 / 79
p0 560.6 ± 0.4484
575
570
565
560
555
550

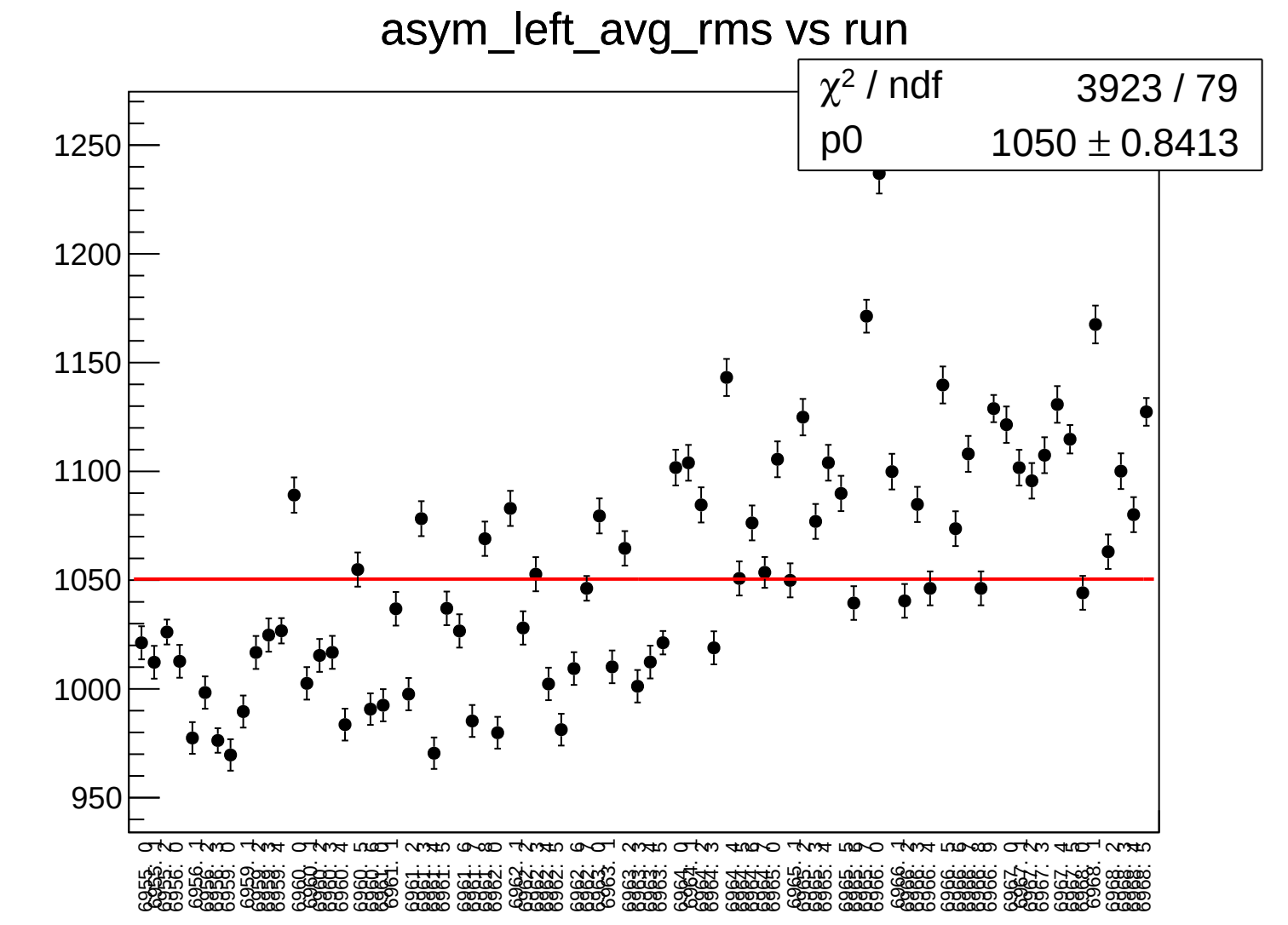

asym_left_avg_correction_mean vs run
χ² / ndf 80.05 / 79
p0 −729.8 ± 1004
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 80
Mean 8.221
Std Dev 47.88
2
1
0
−1
−2

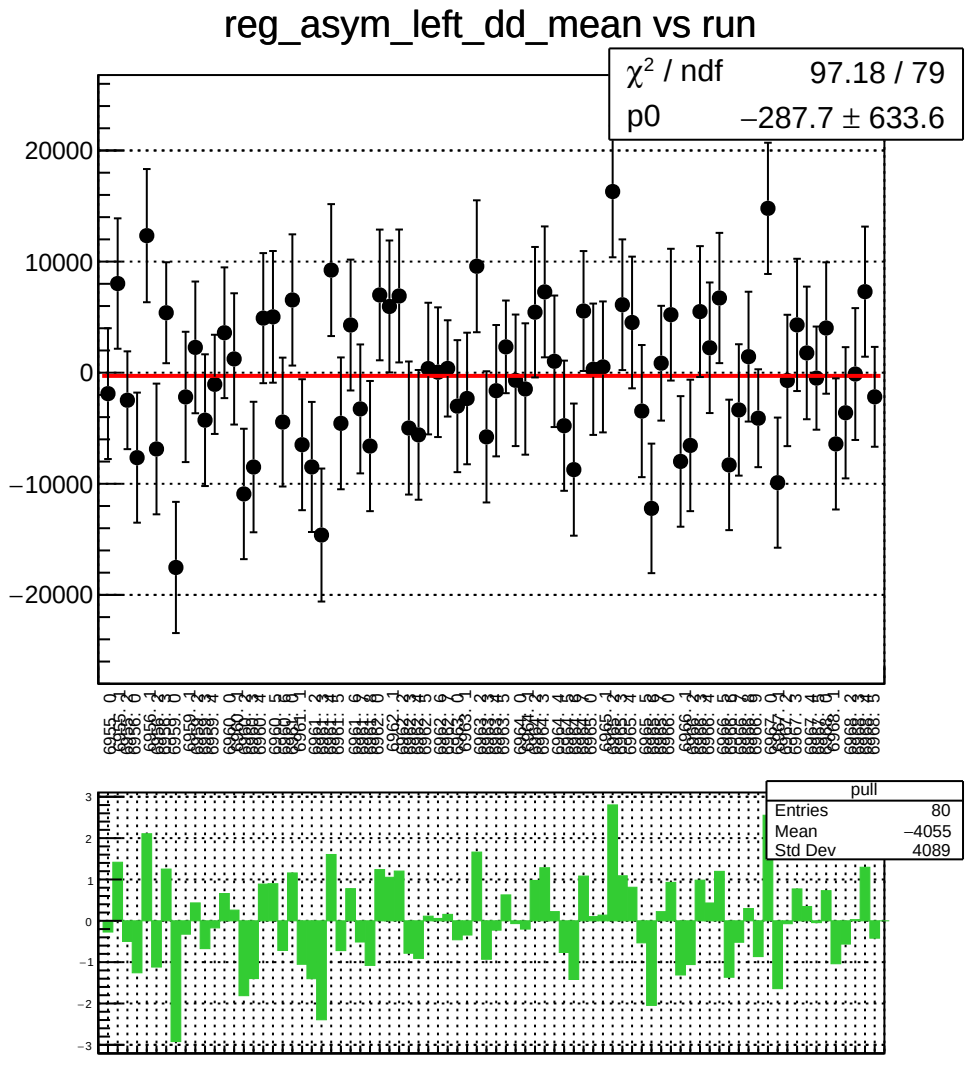

pull1D
Entries 80
Mean −0.01433
Std Dev 1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

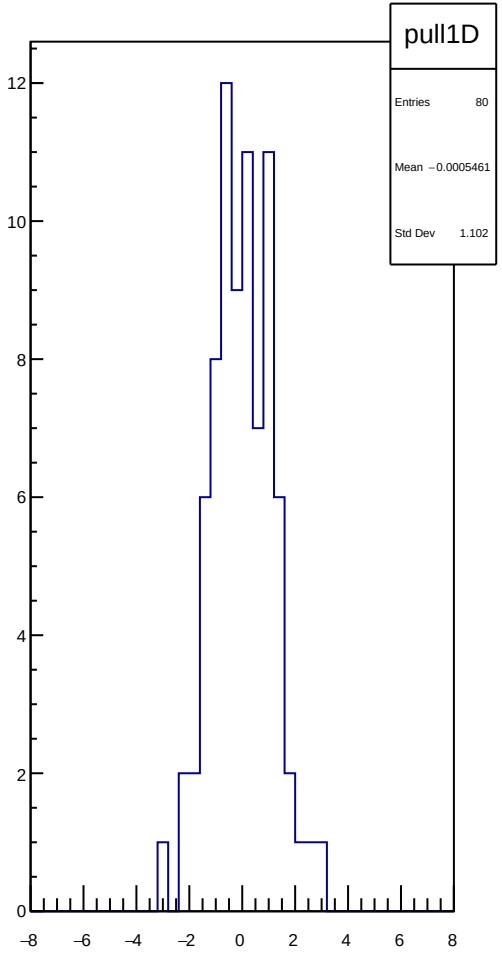

asym_left_avg_correction_rms vs run
χ² / ndf 7378 / 79
p0 885.6 ± 0.71
1100
1050
1000
950
900
850
800

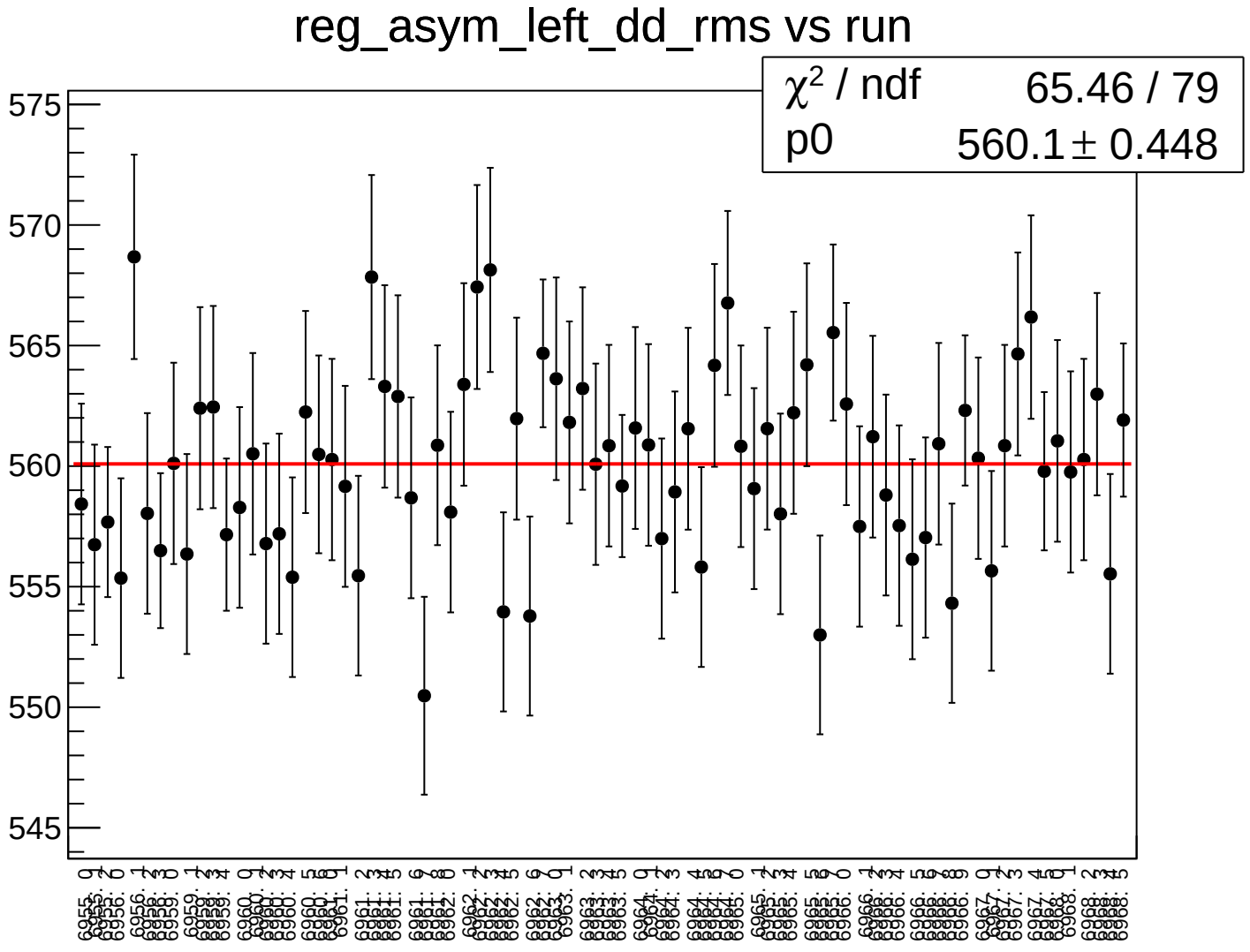

asym_left_avg_mean vs run
χ² / ndf 77.62 / 79
p0 59.45 ± 1190
pull
Entries 80
Mean 115.4
Std Dev 59.58

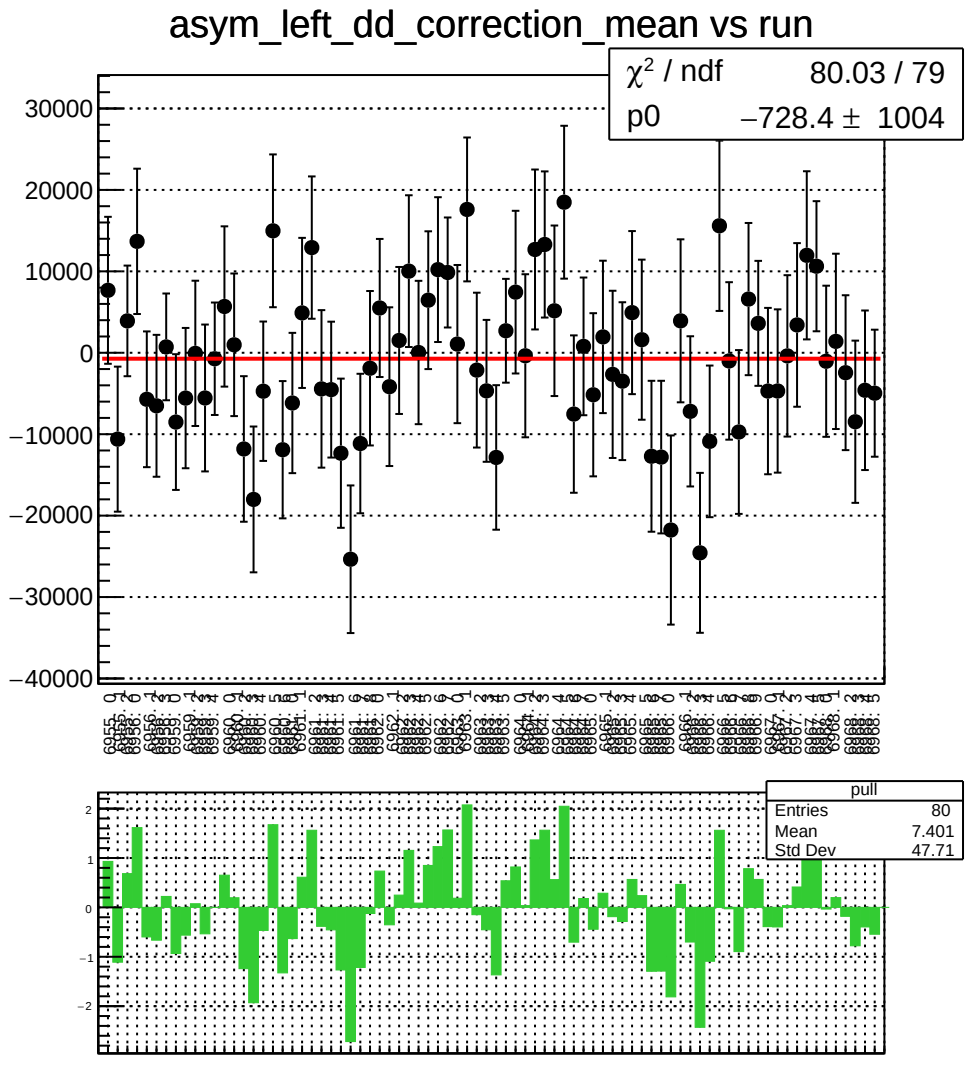

pull1D
Entries 80
Mean 0.01276
Std Dev 0.9849

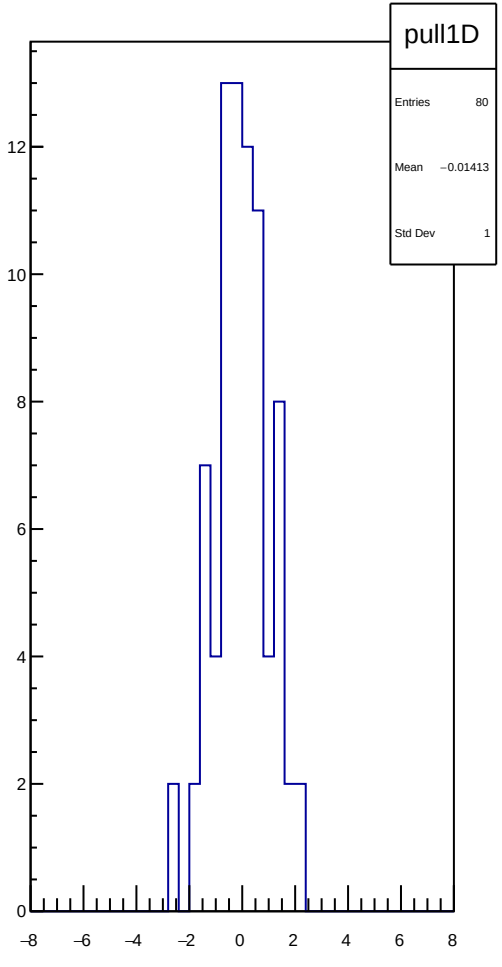

asym_left_avg_rms vs run
χ² / ndf 3923 / 79
p0 1050 ± 0.8413
1250
1200
1150
1100
1050
1000
950

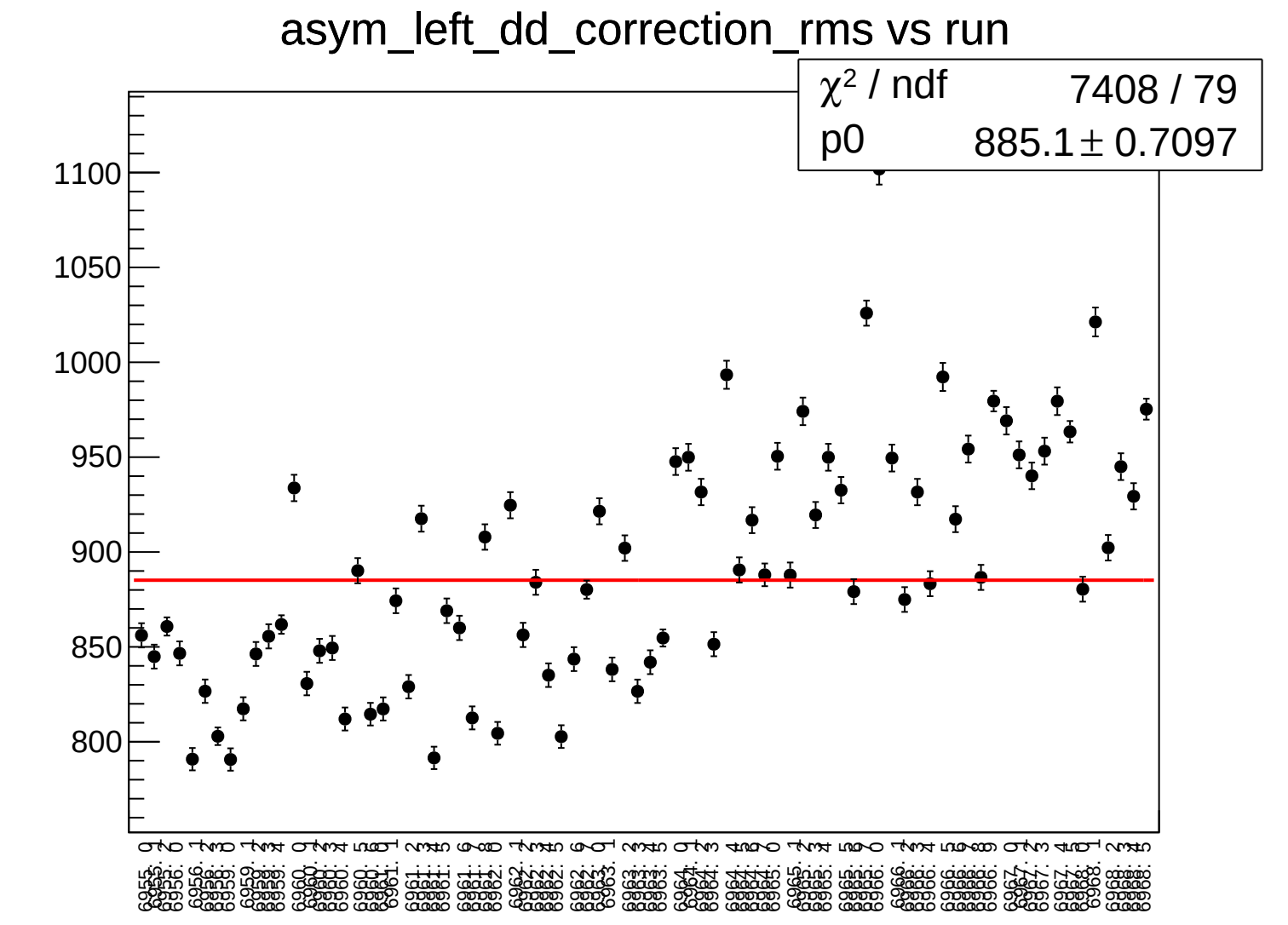

reg_asym_left_dd_mean vs run
χ² / ndf 97.18 / 79
p0 −287.7 ± 633.6
20000
10000
0
−10000
−20000
pull
Entries 80
Mean −4055
Std Dev 4089
3
2
1
0
−1
−2
−3

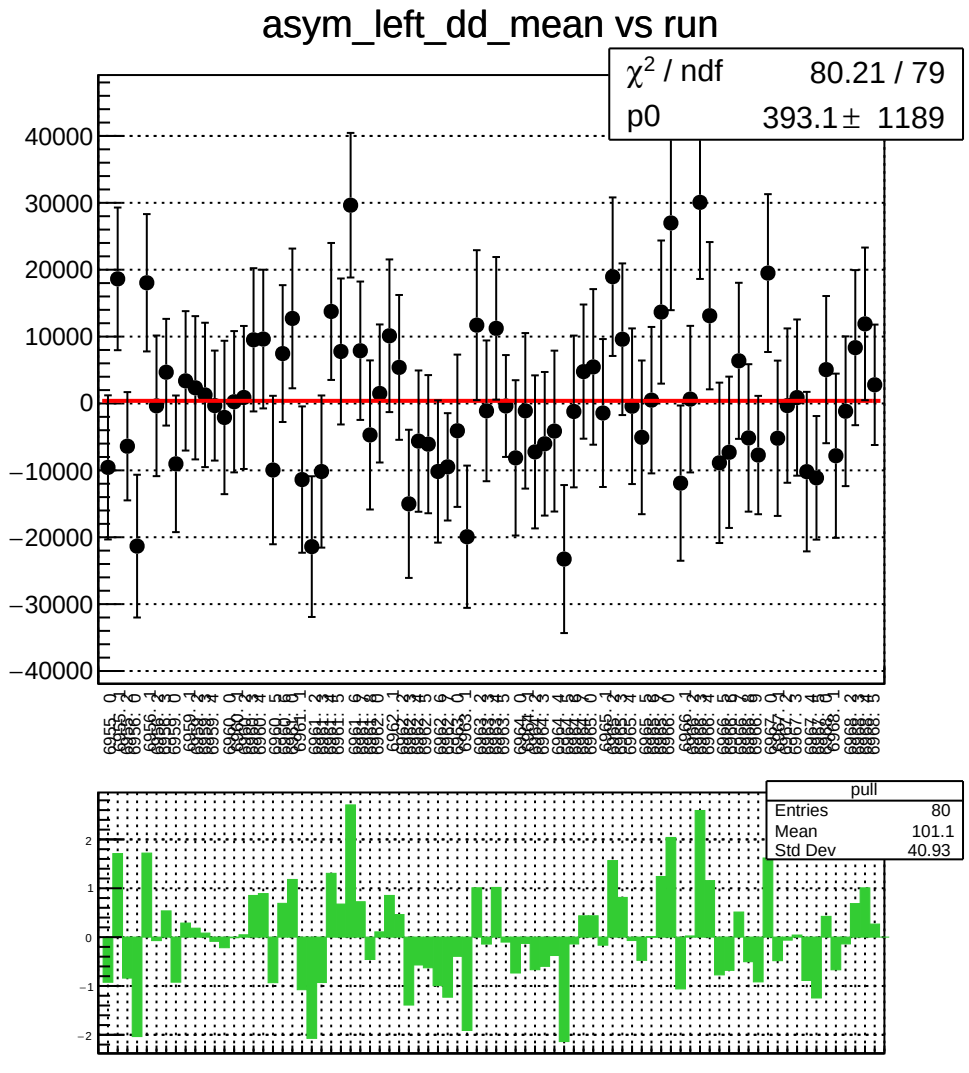

pull1D
Entries 80
Mean −0.0005461
Std Dev 1.102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

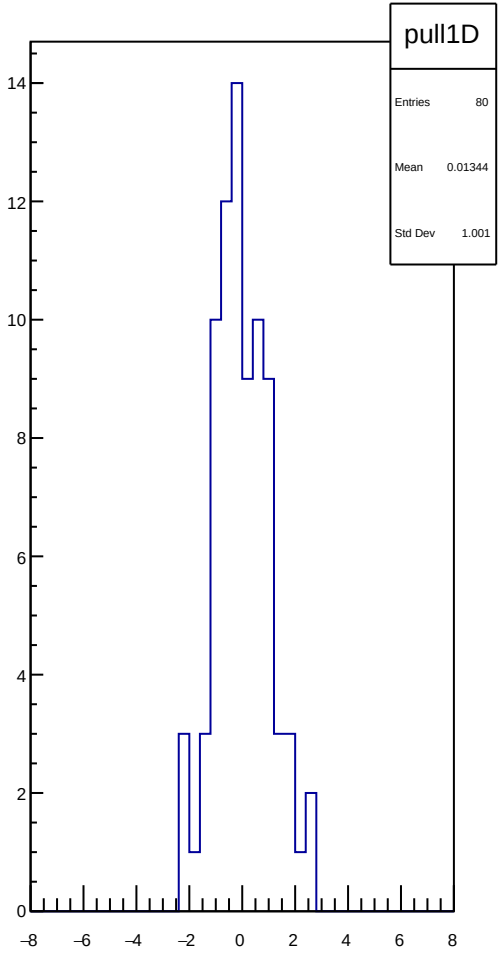

reg_asym_left_dd_rms vs run
χ^2 / ndf 65.46 / 79
p0 560.1 ± 0.448
575
570
565
560
555
550
545

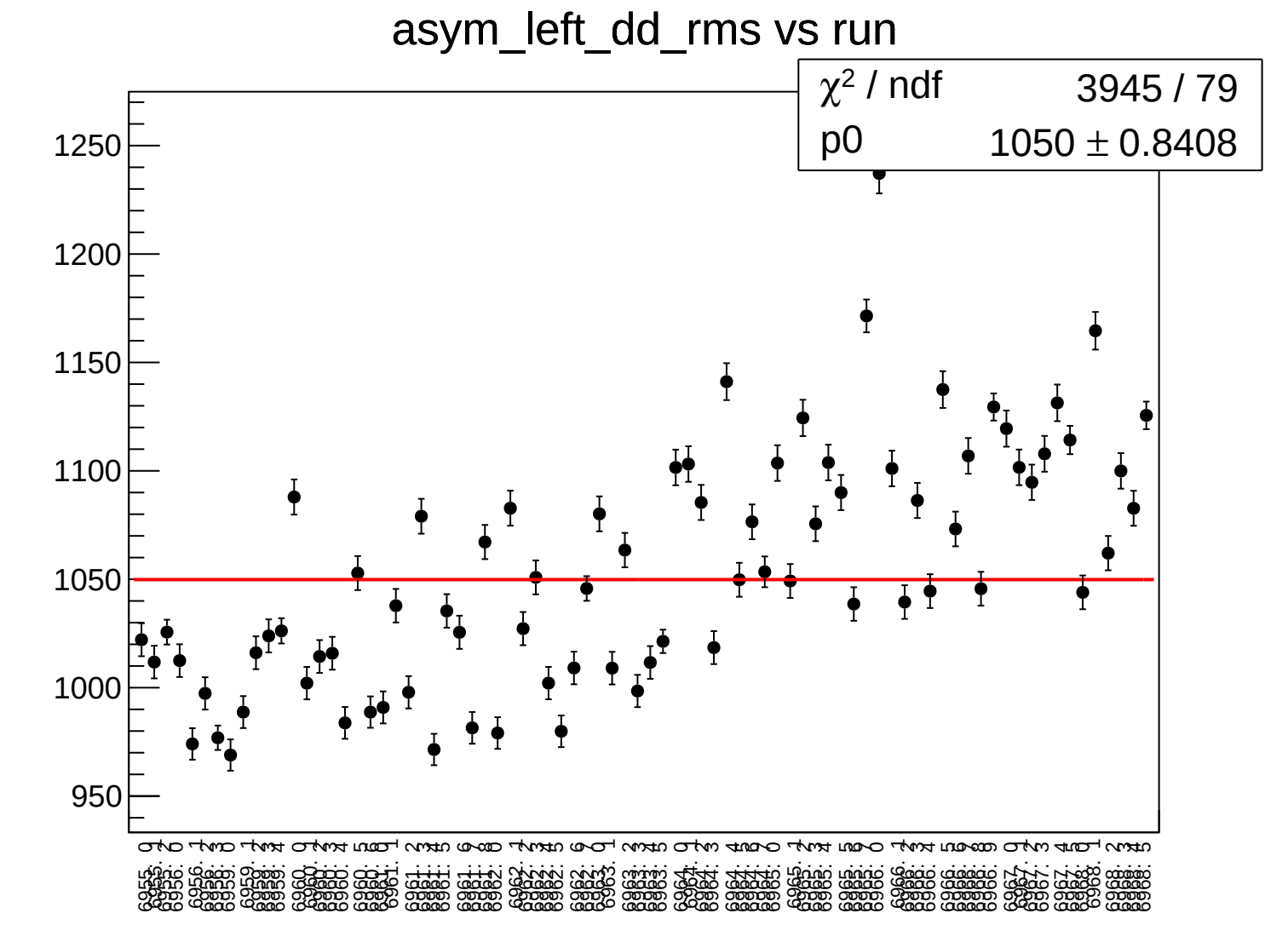

asym_left_dd_correction_mean vs run
χ² / ndf 80.03 / 79
p0 −728.4 ± 1004
pull
Entries 80
Mean 7.401
Std Dev 47.71

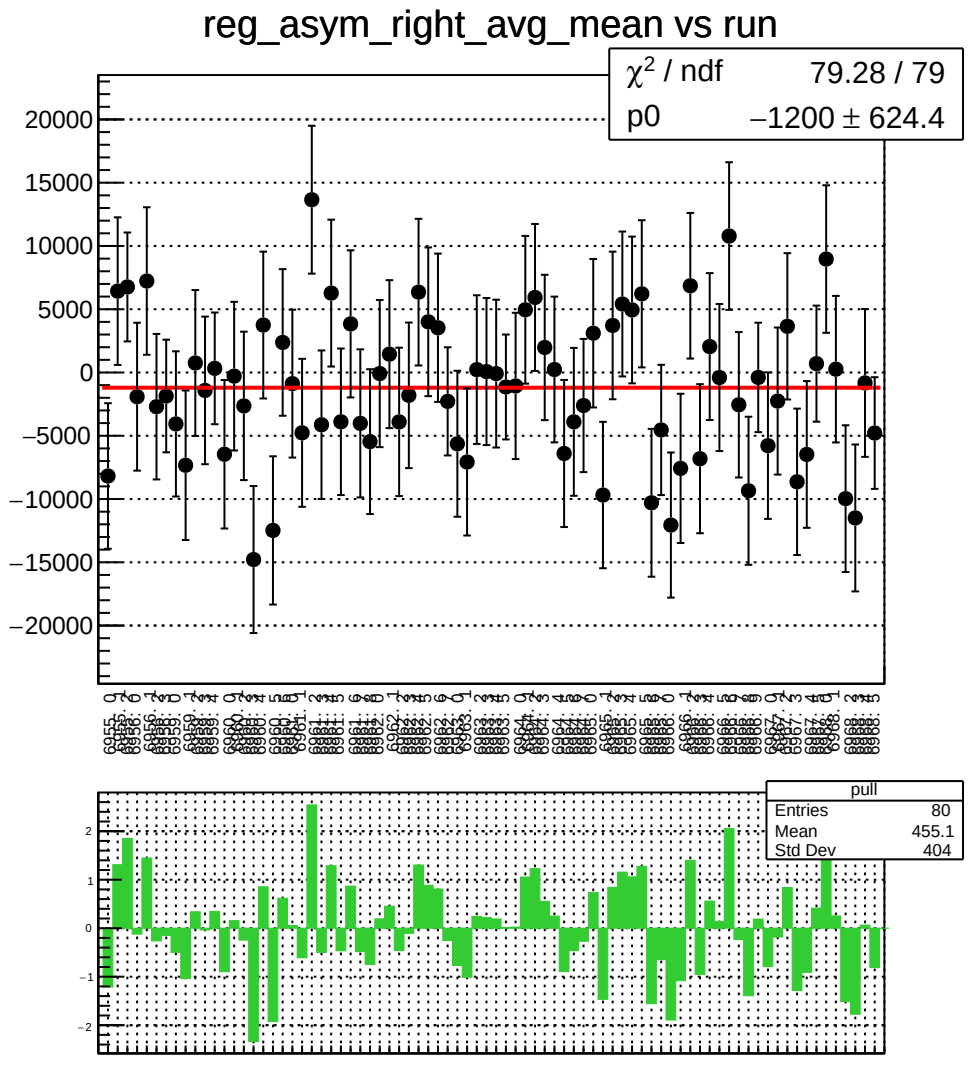

pull1D
Entries 80
Mean −0.01413
Std Dev 1

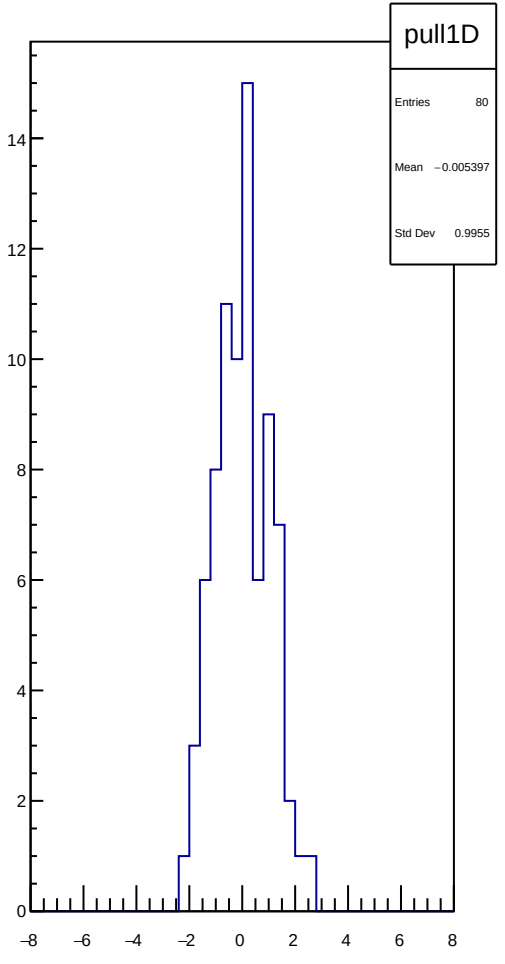

asym_left_dd_correction_rms vs run
χ² / ndf 7408 / 79
p0 885.1 ± 0.7097
1100
1050
1000
950
900
850
800

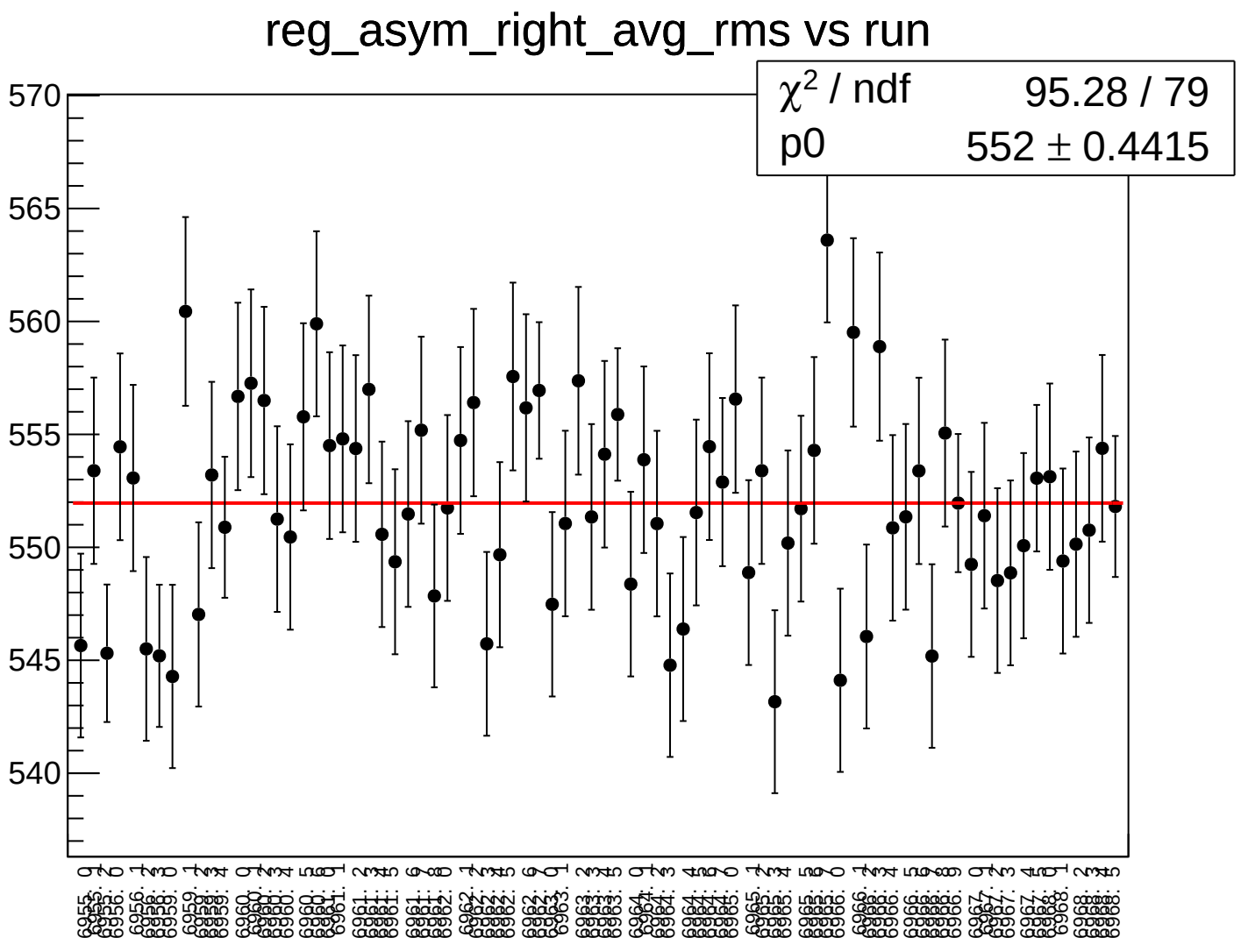

asym_left_dd_mean vs run
χ² / ndf 80.21 / 79
p0 393.1 ± 1189
pull
Entries 80
Mean 101.1
Std Dev 40.93

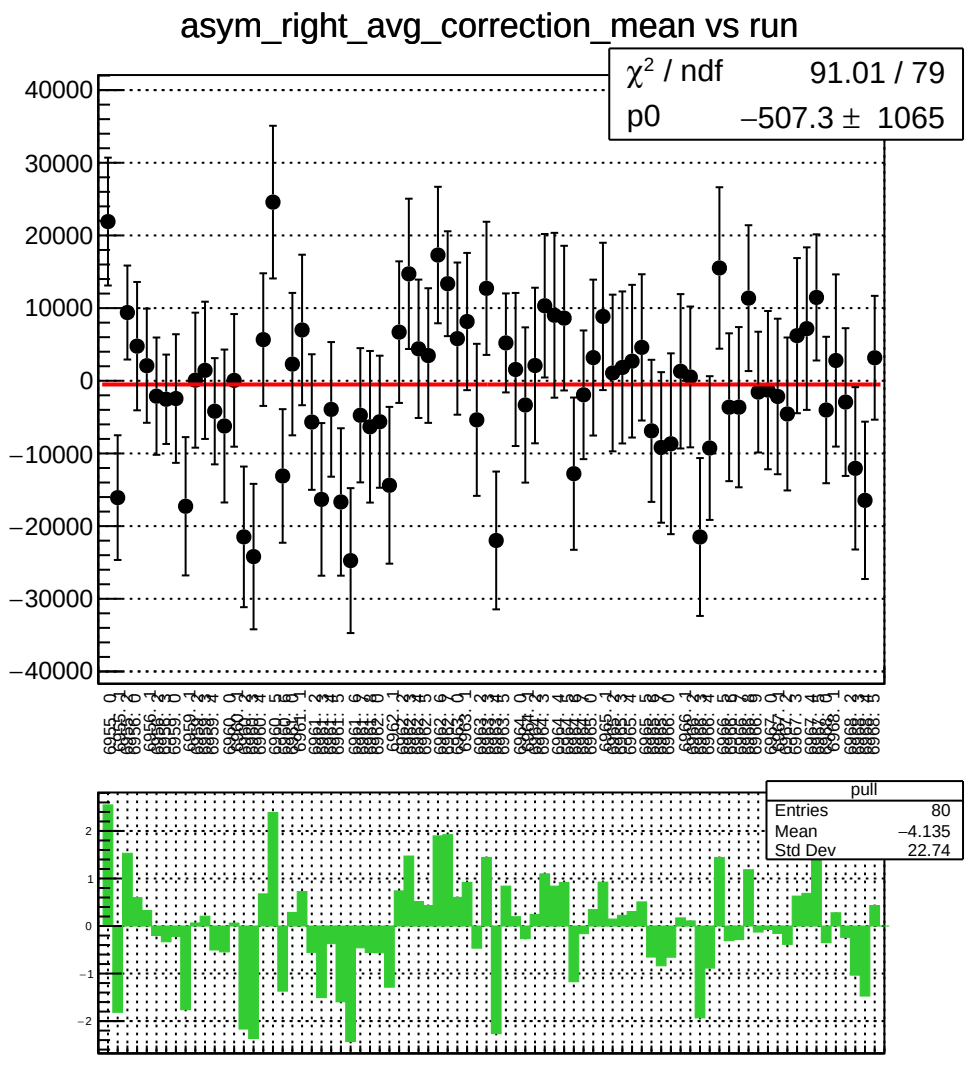

pull1D
Entries 80
Mean 0.01344
Std Dev 1.001

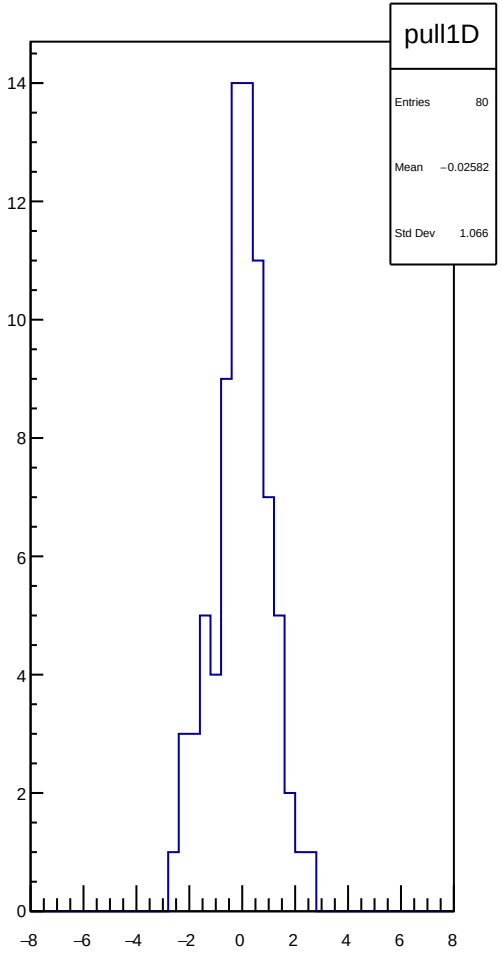

asym_left_dd_rms vs run
χ² / ndf 3945 / 79
p0 1050 ± 0.8408
1250
1200
1150
1100
1050
1000
950

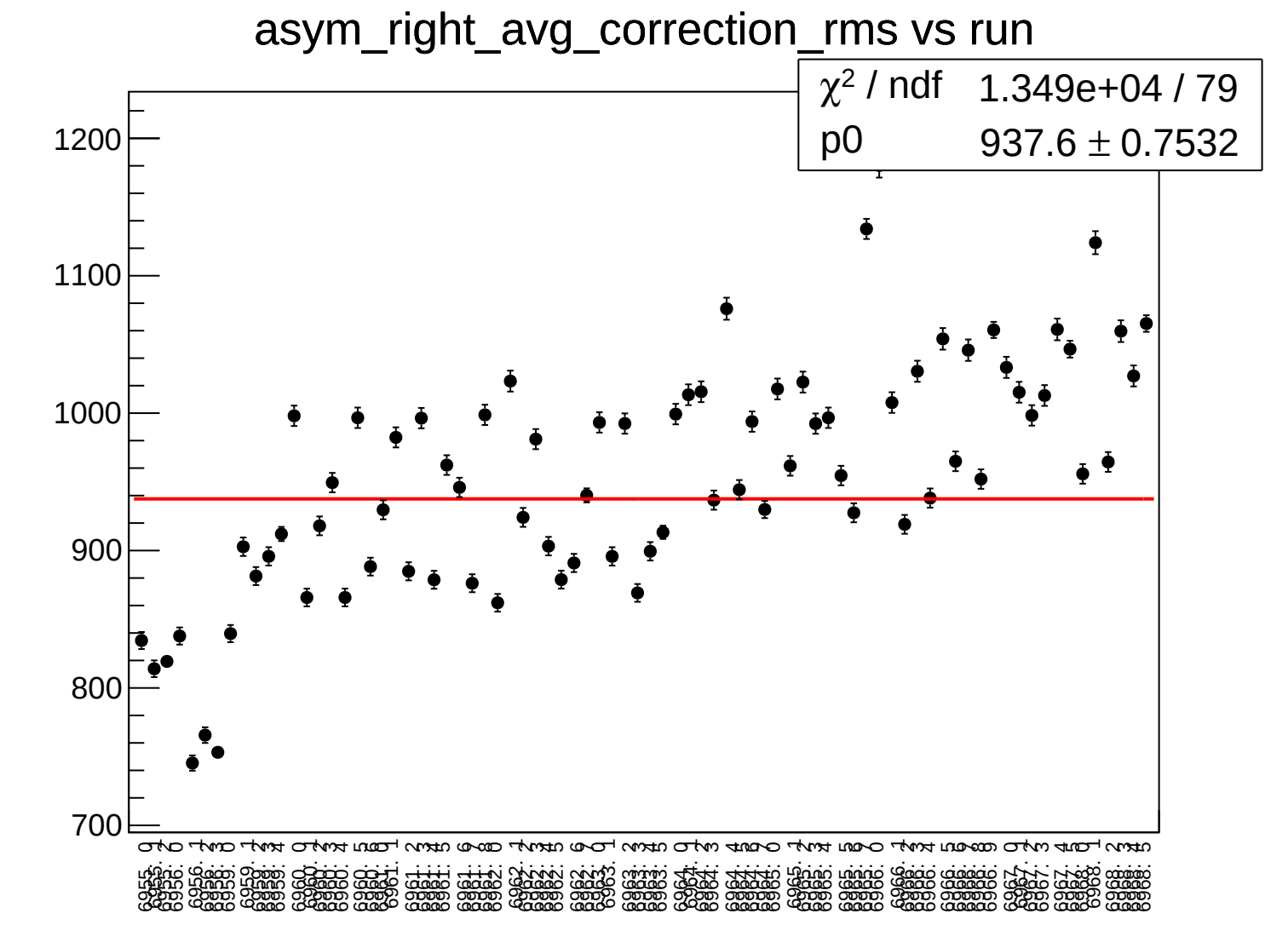

reg_asym_right_avg_mean vs run
χ² / ndf 79.28 / 79
p0 −1200 ± 624.4
pull
Entries 80
Mean 455.1
Std Dev 404

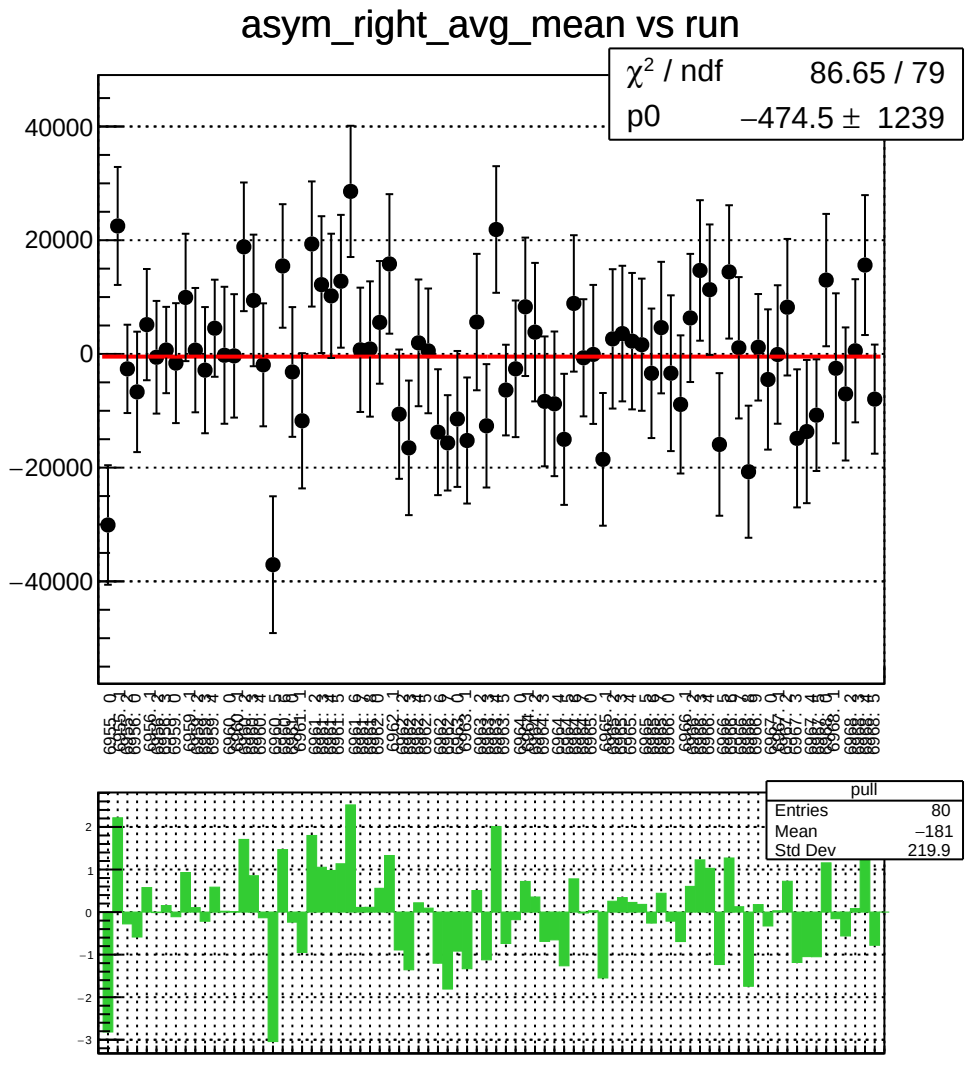

pull1D
Entries 80
Mean −0.005397
Std Dev 0.9955

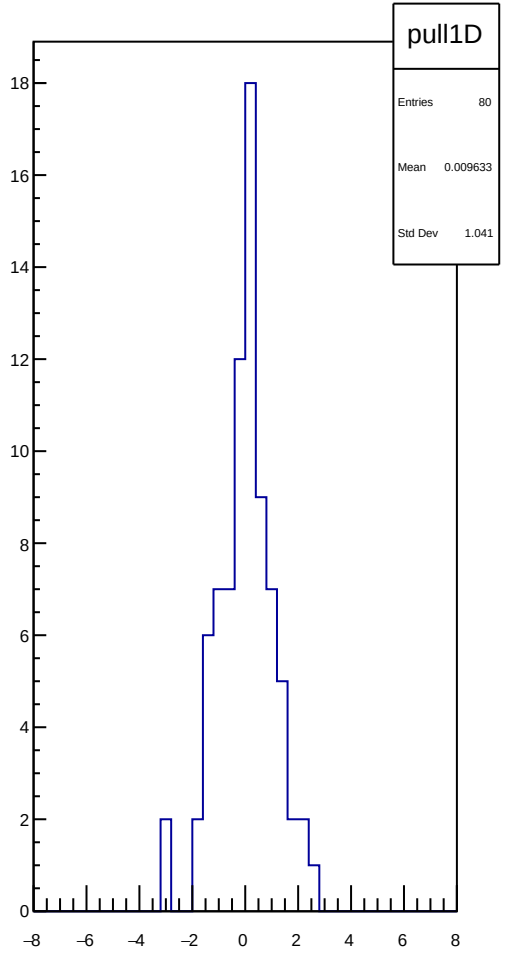

reg_asym_right_avg_rms vs run
χ^2 / ndf 95.28 / 79
p0 552 ± 0.4415
570
565
560
555
550
545
540

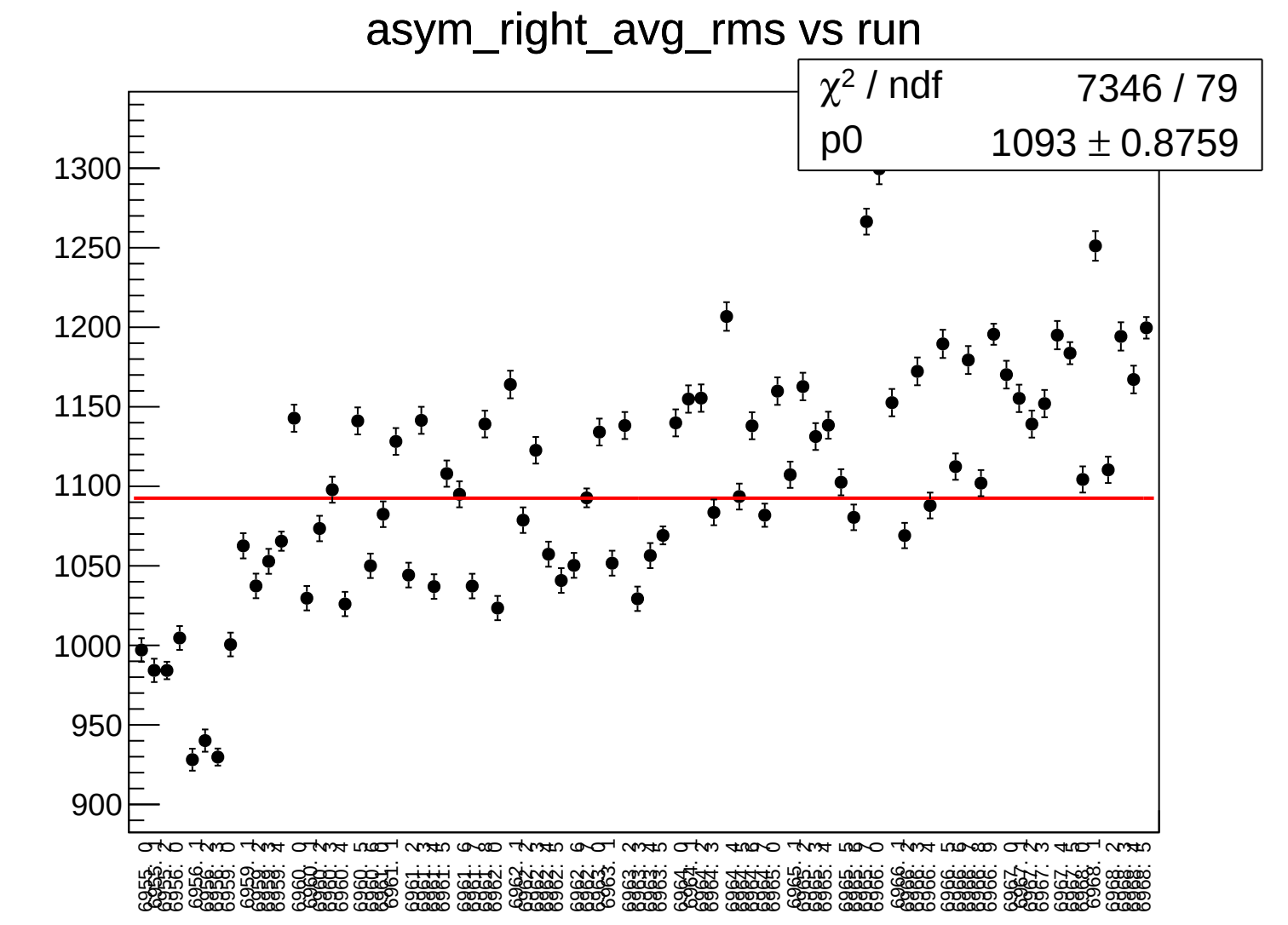

asym_right_avg_correction_mean vs run
χ² / ndf 91.01 / 79
p0 −507.3 ± 1065
pull
Entries 80
Mean −4.135
Std Dev 22.74

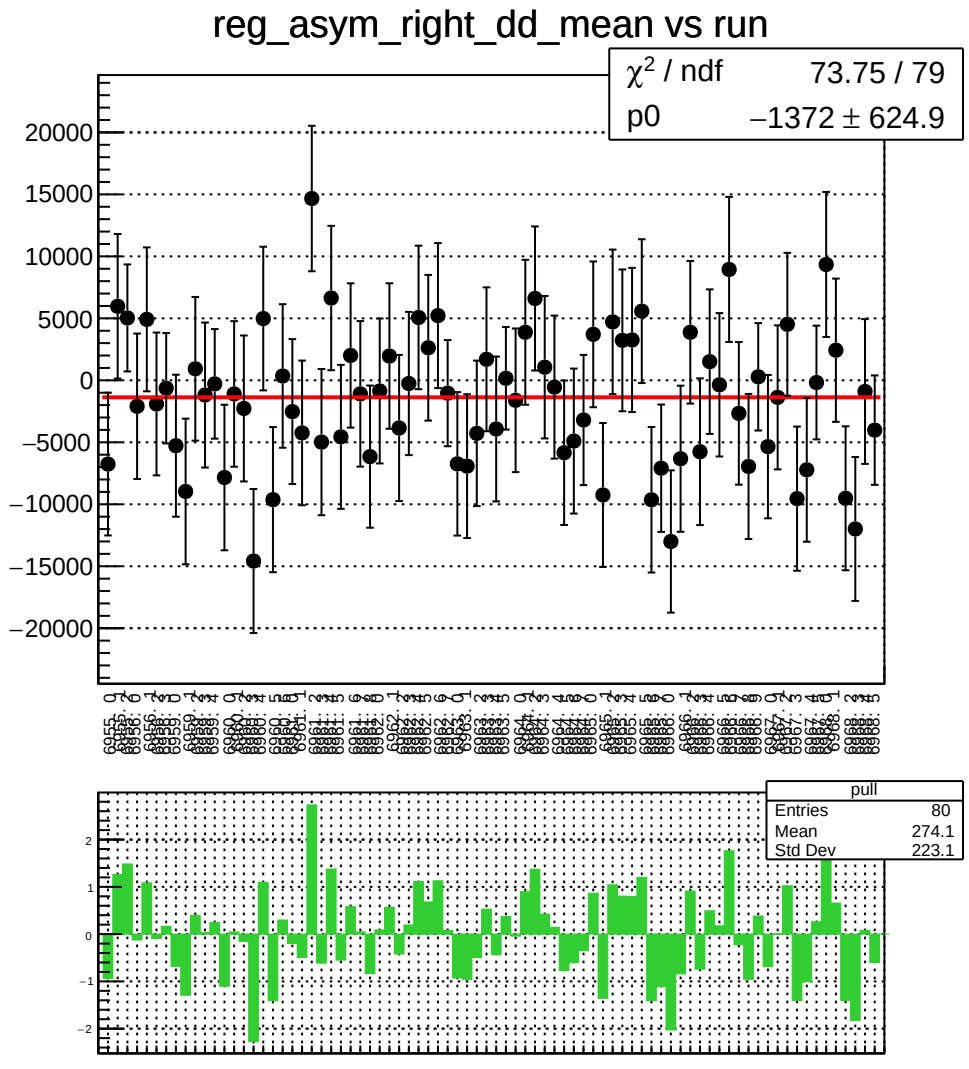

pull1D
Entries 80
Mean −0.02582
Std Dev 1.066

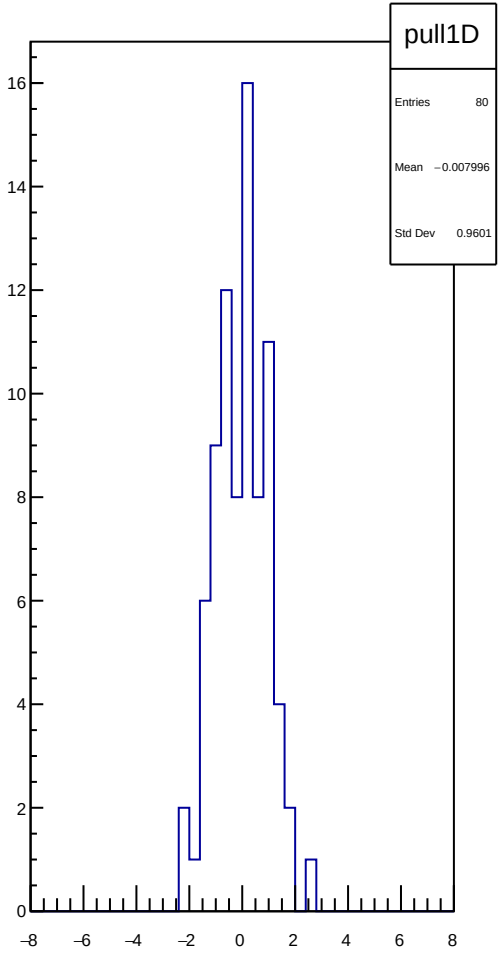

asym_right_avg_correction_rms vs run
χ² / ndf 1.349e+04 / 79
p0 937.6 ± 0.7532
1200
1100
1000
900
800
700

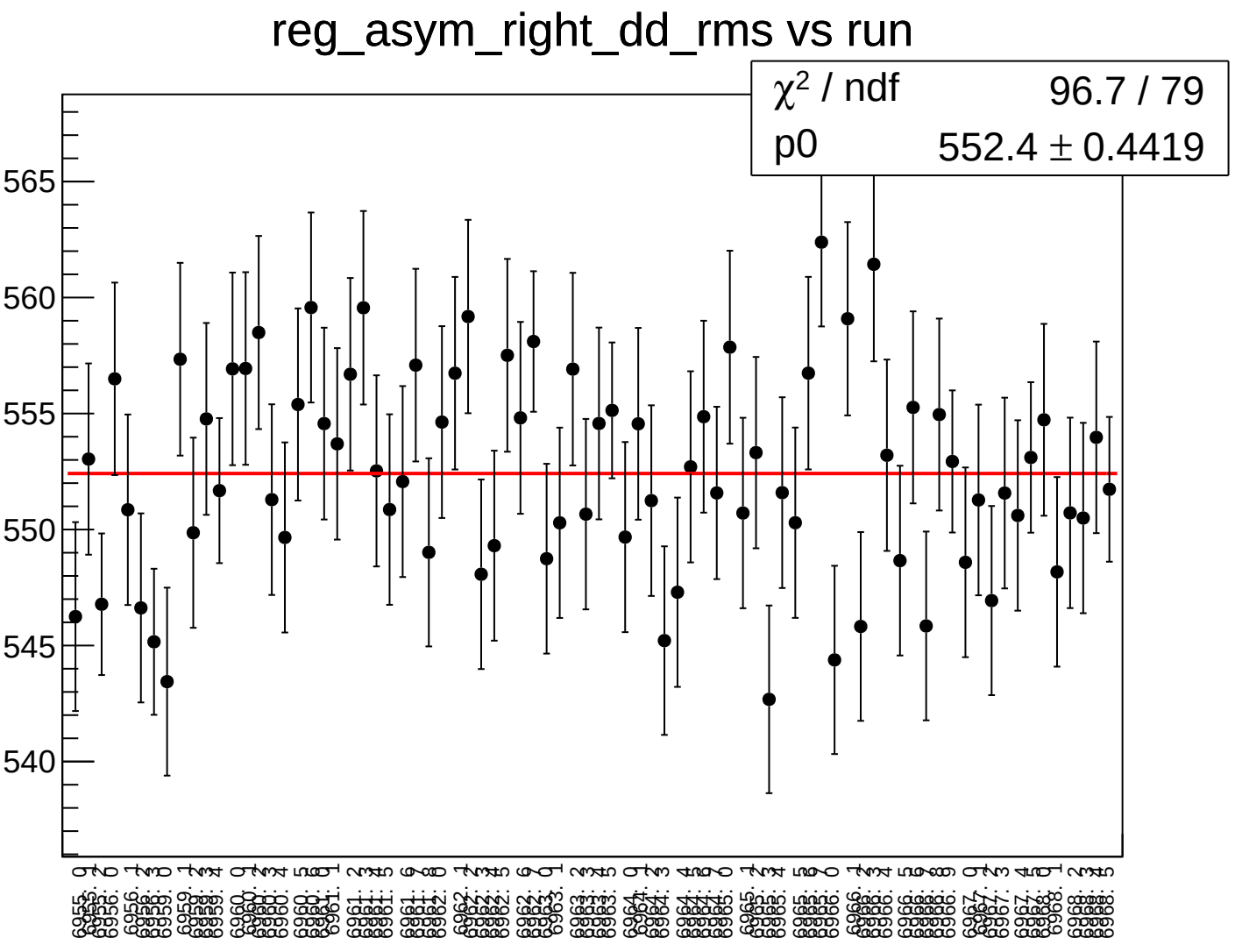

asym_right_avg_mean vs run
χ² / ndf 86.65 / 79
p0 −474.5 ± 1239
40000
20000
0
−20000
−40000
pull
Entries 80
Mean −181
Std Dev 219.9
2
1
0
−1
−2
−3

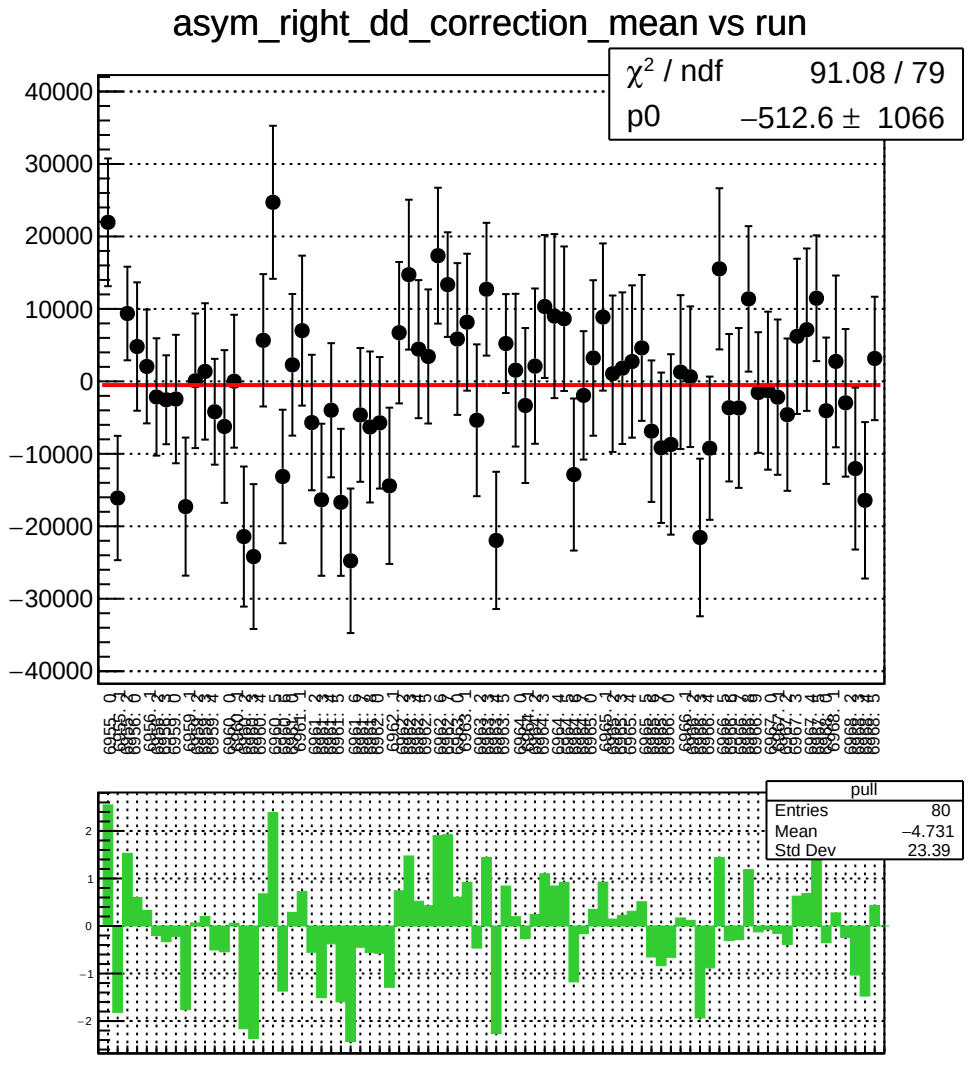

pull1D
Entries 80
Mean 0.009633
Std Dev 1.041
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

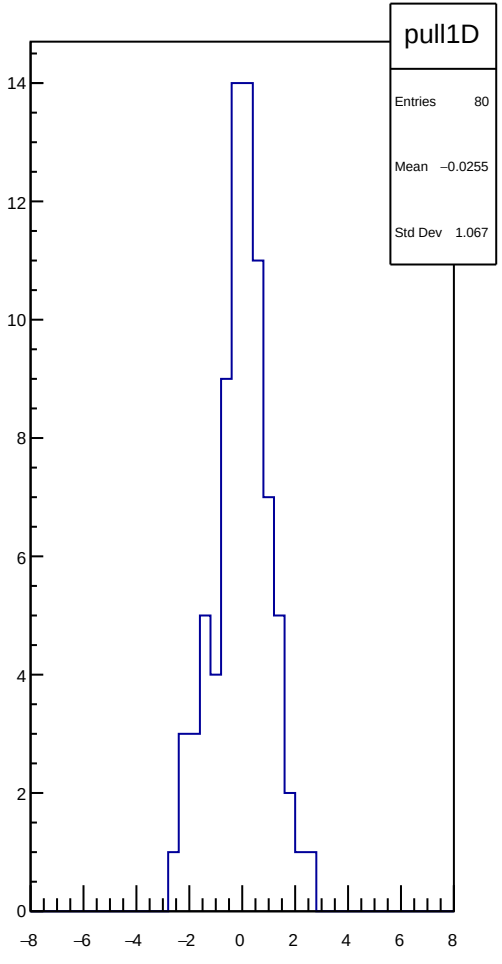

asym_right_avg_rms vs run
χ² / ndf 7346 / 79
p0 1093 ± 0.8759
1300
1250
1200
1150
1100
1050
1000
950
900

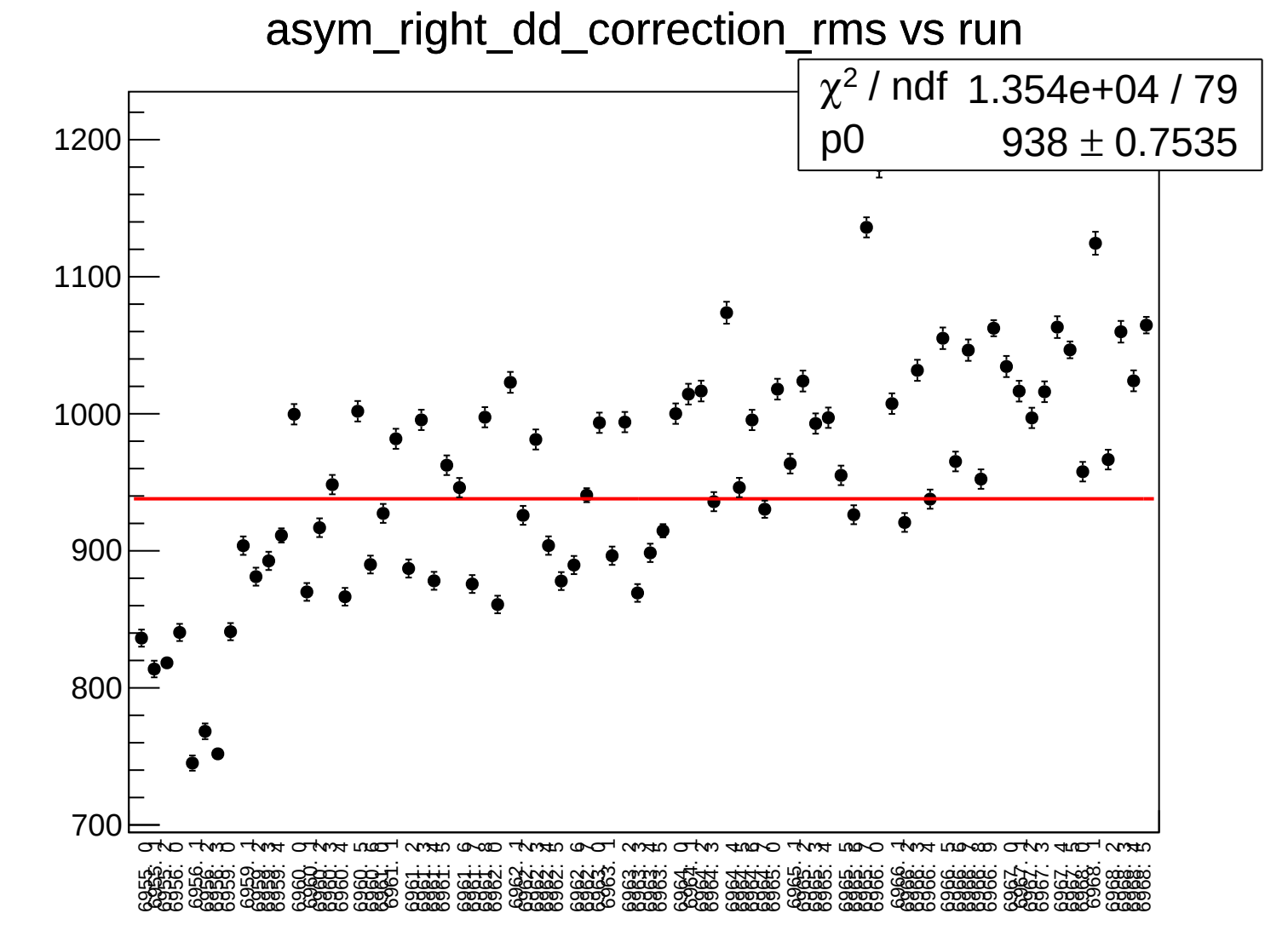

reg_asym_right_dd_mean vs run
χ² / ndf 73.75 / 79
p0 −1372 ± 624.9
pull
Entries 80
Mean 274.1
Std Dev 223.1

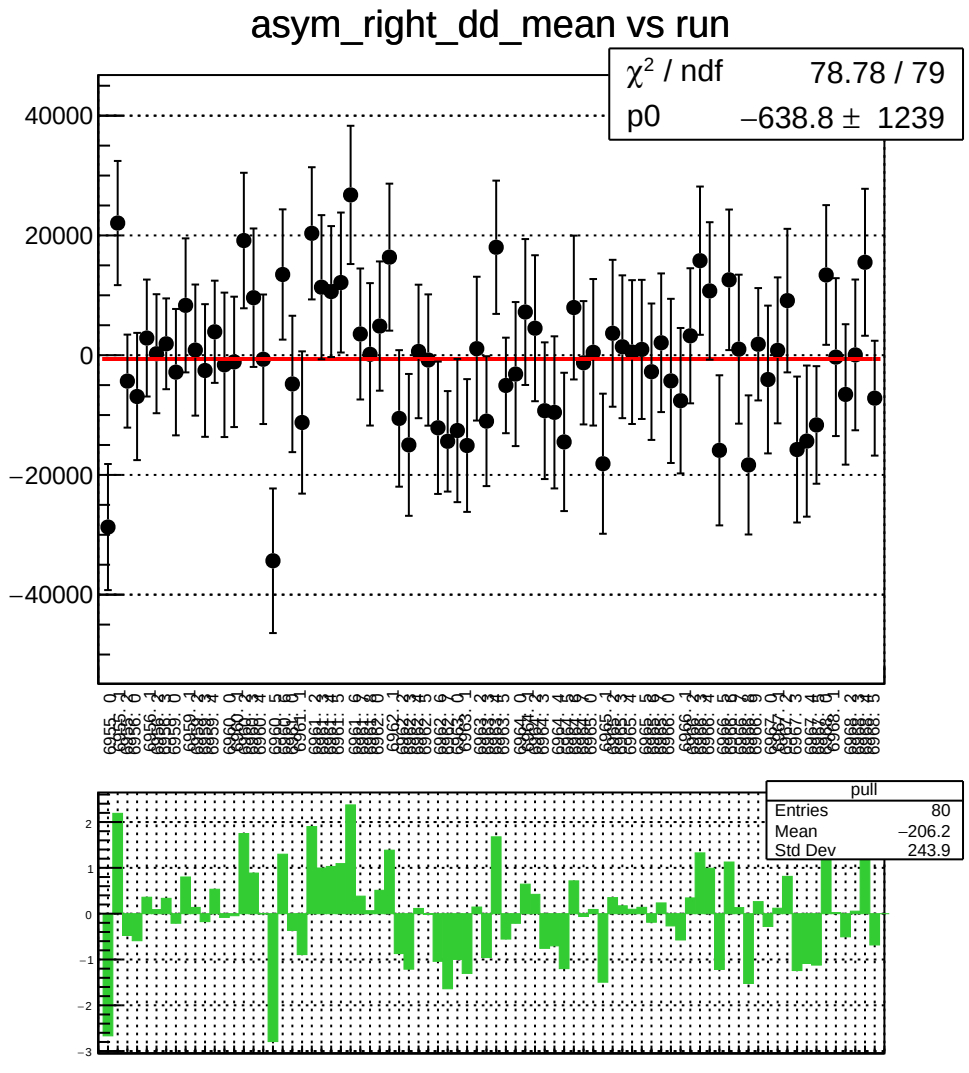

pull1D
Entries 80
Mean −0.007996
Std Dev 0.9601

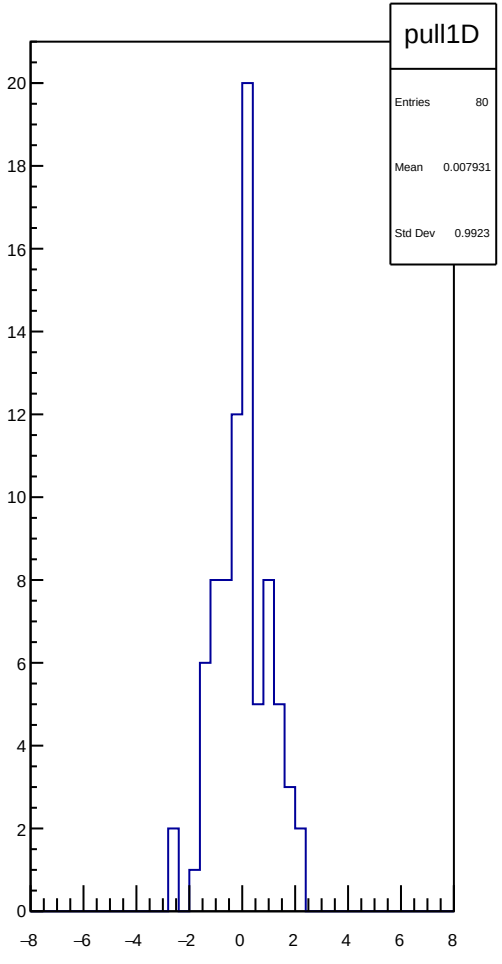

reg_asym_right_dd_rms vs run
χ² / ndf 96.7 / 79
p0 552.4 ± 0.4419
565
560
555
550
545
540

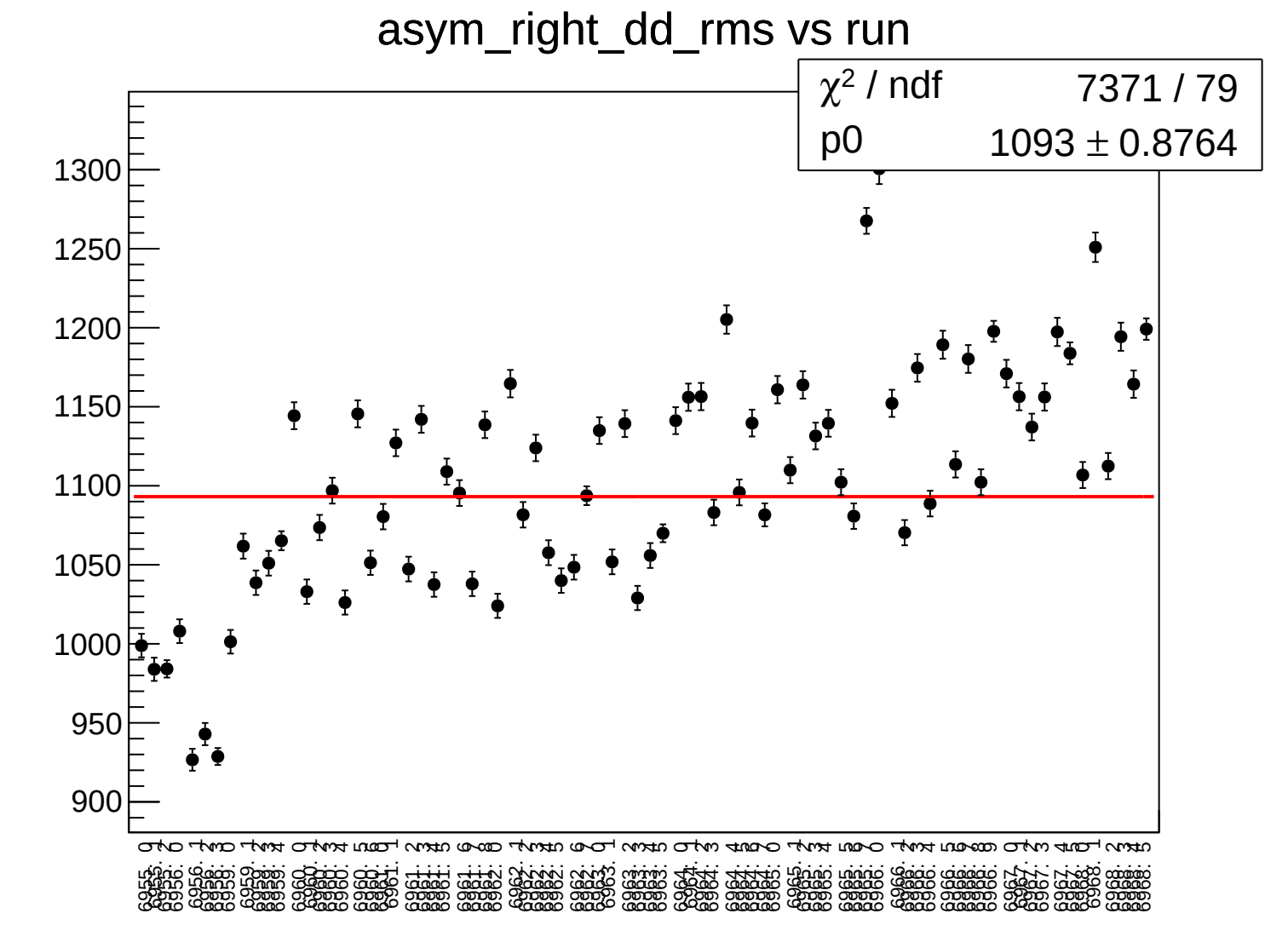

asym_right_dd_correction_mean vs run
χ² / ndf 91.08 / 79
p0 −512.6 ± 1066
pull
Entries 80
Mean −4.731
Std Dev 23.39

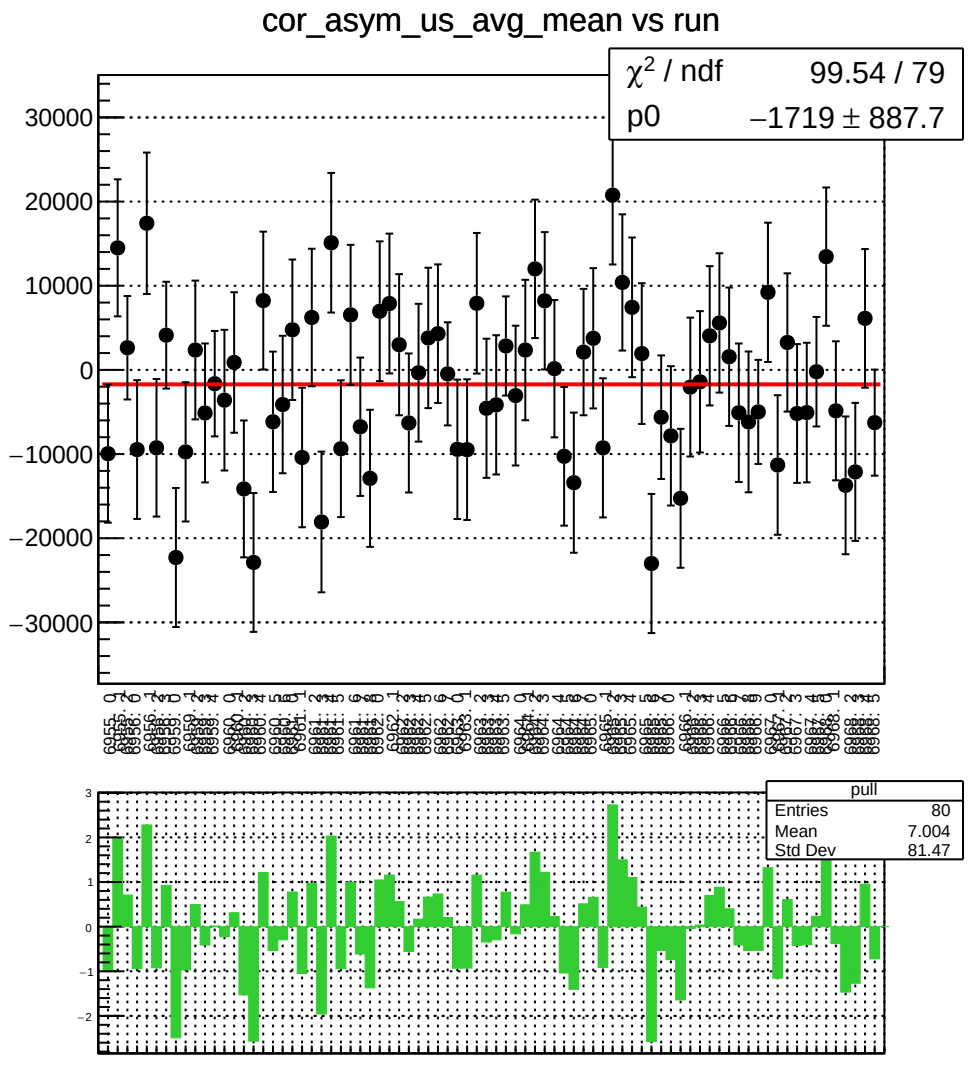

pull1D
Entries 80
Mean −0.0255
Std Dev 1.067

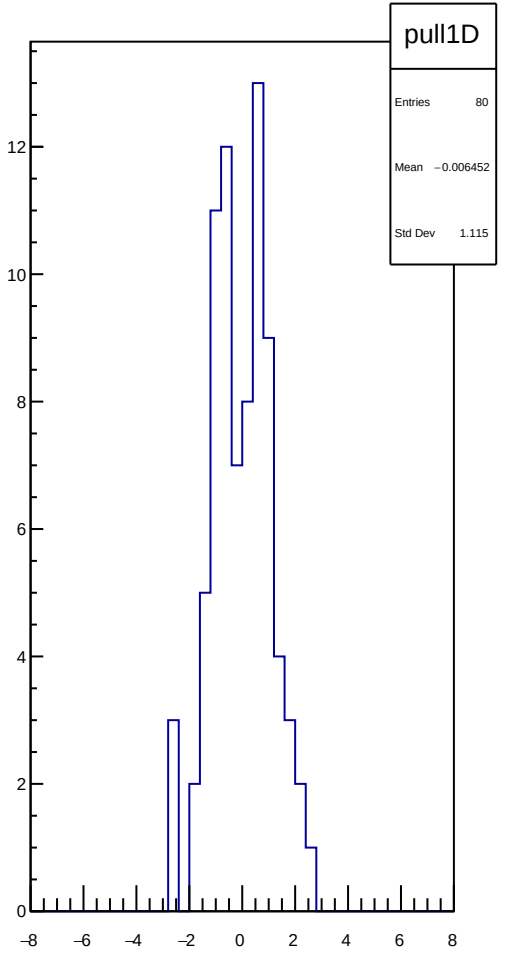

asym_right_dd_correction_rms vs run
χ² / ndf 1.354e+04 / 79
p0 938 ± 0.7535
1200
1100
1000
900
800
700

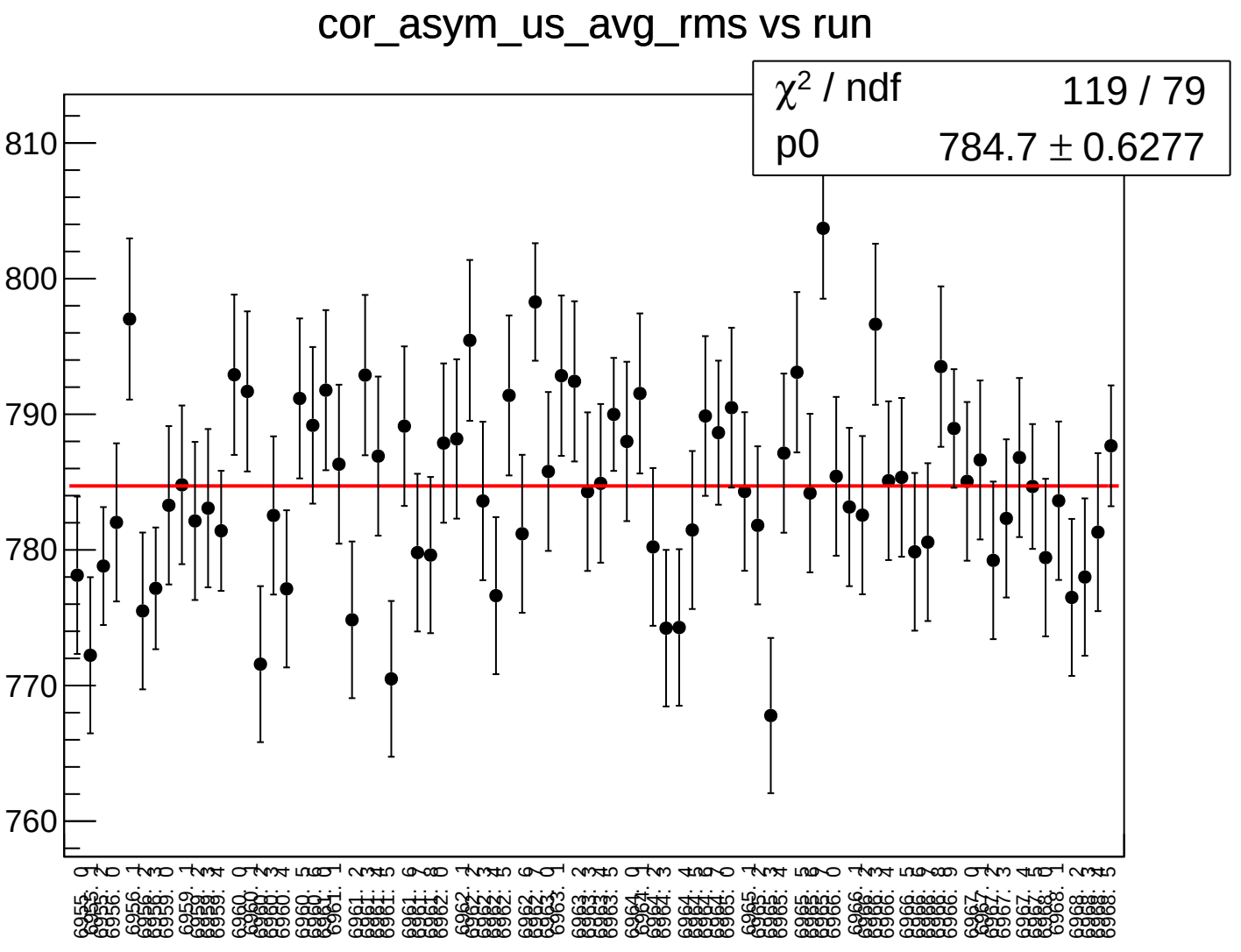

asym_right_dd_mean vs run
χ² / ndf 78.78 / 79
p0 −638.8 ± 1239
40000
20000
0
−20000
−40000
pull
Entries 80
Mean −206.2
Std Dev 243.9
2
1
0
−1
−2
−3

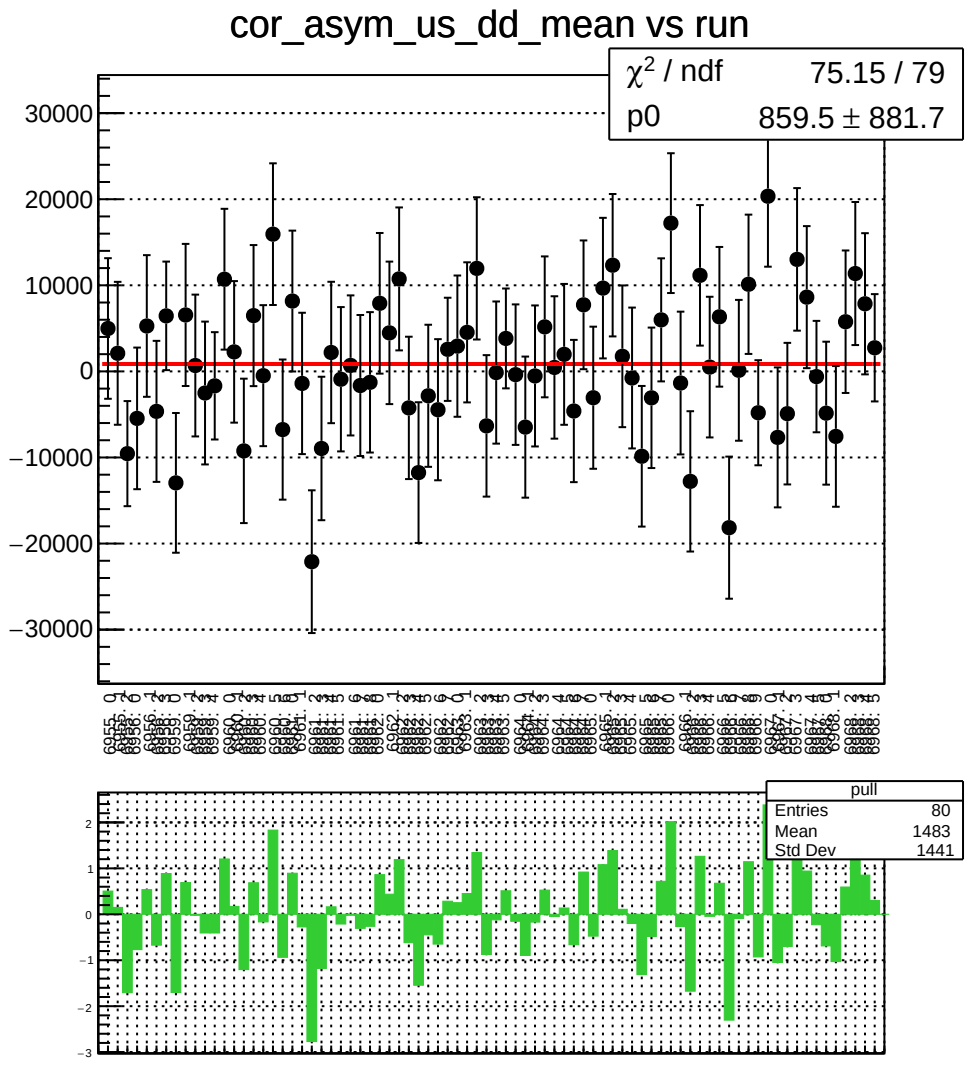

pull1D
Entries 80
Mean 0.007931
Std Dev 0.9923
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

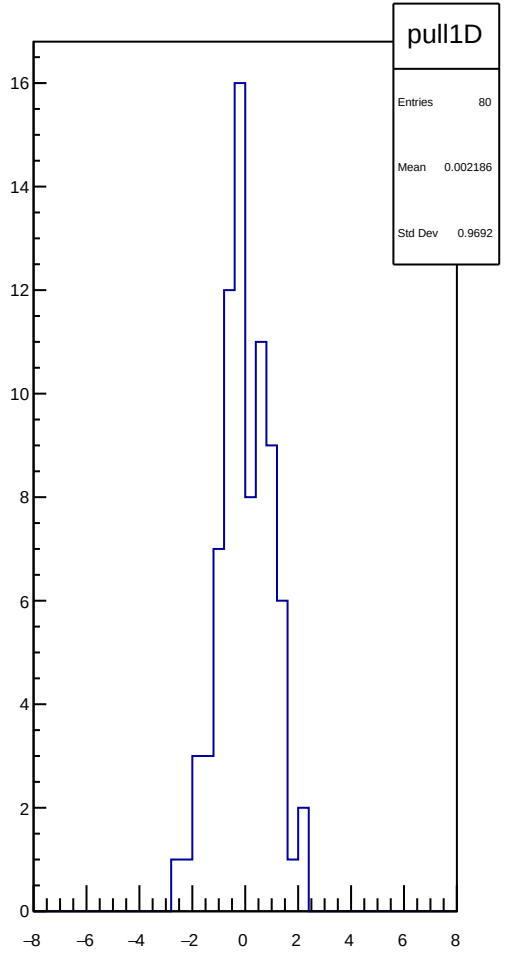

asym_right_dd_rms vs run
χ² / ndf 7371 / 79
p0 1093 ± 0.8764
1300
1250
1200
1150
1100
1050
1000
950
900

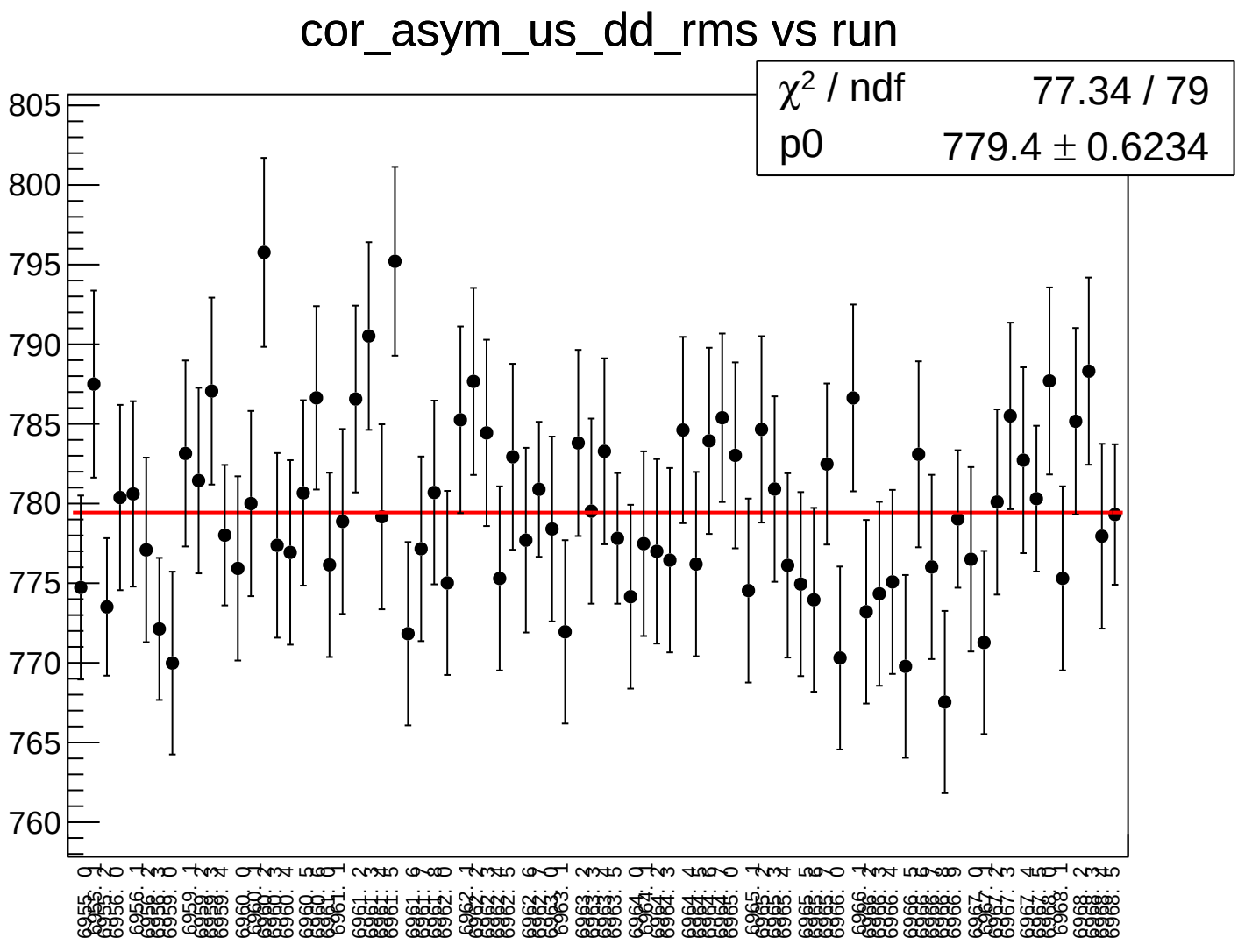

cor_asym_us_avg_mean vs run
χ² / ndf 99.54 / 79
p0 −1719 ± 887.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 80
Mean 7.004
Std Dev 81.47
3
2
1
0
−1
−2

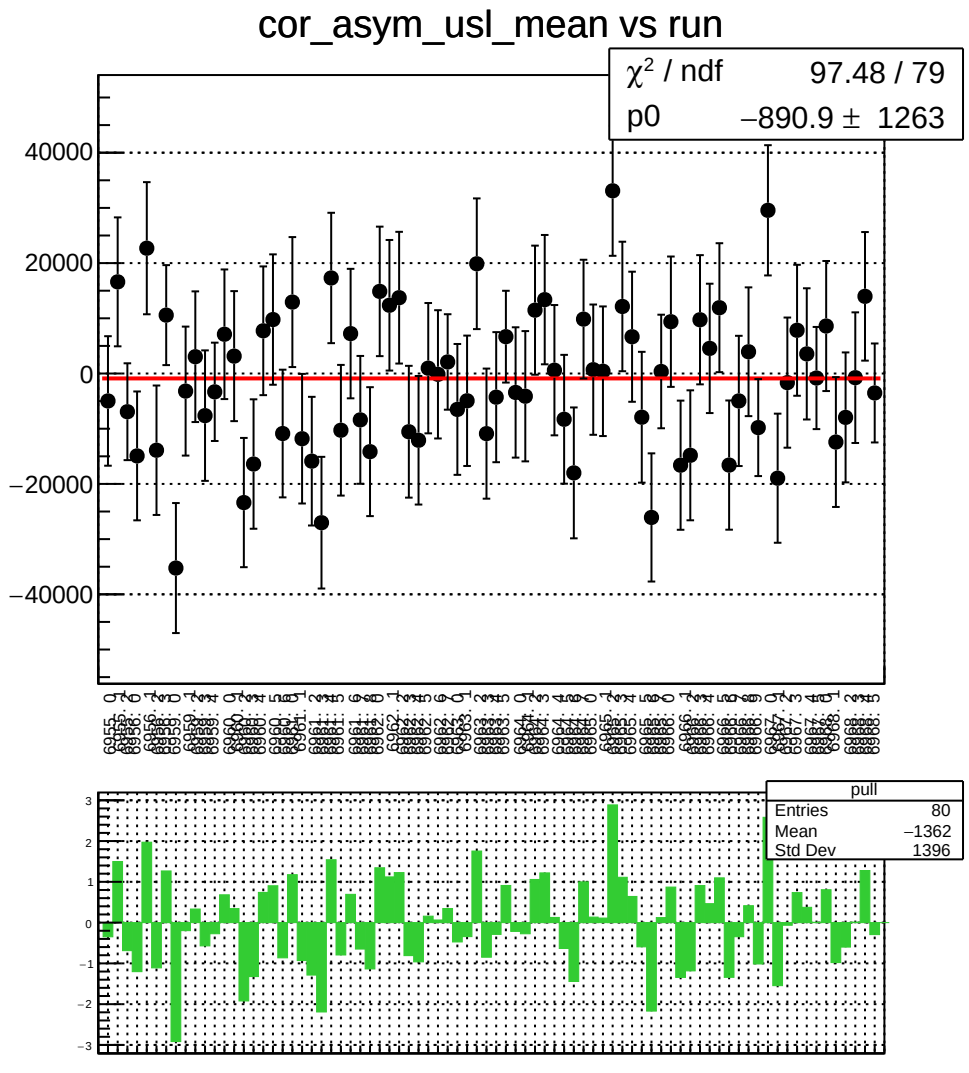

pull1D
Entries 80
Mean −0.006452
Std Dev 1.115
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

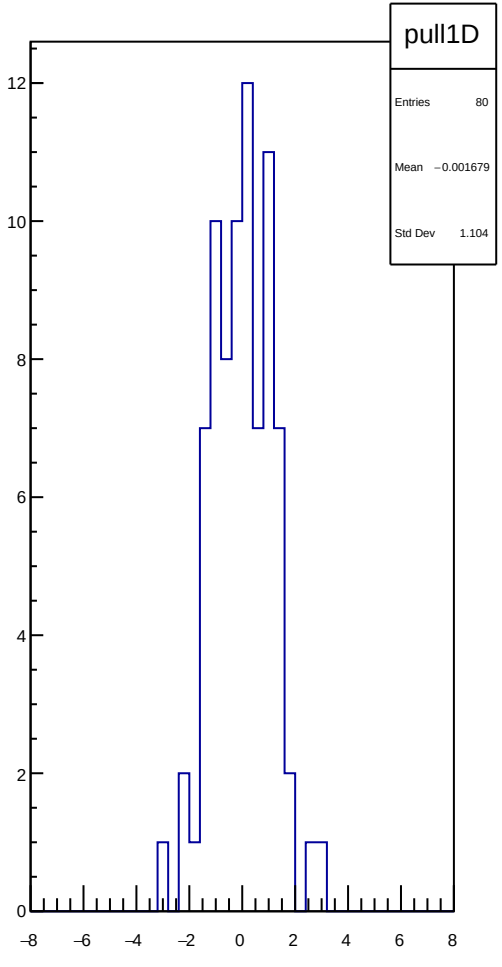

cor_asym_us_avg_rms vs run
χ² / ndf 119 / 79
p0 784.7 ± 0.6277
810
800
790
780
770
760

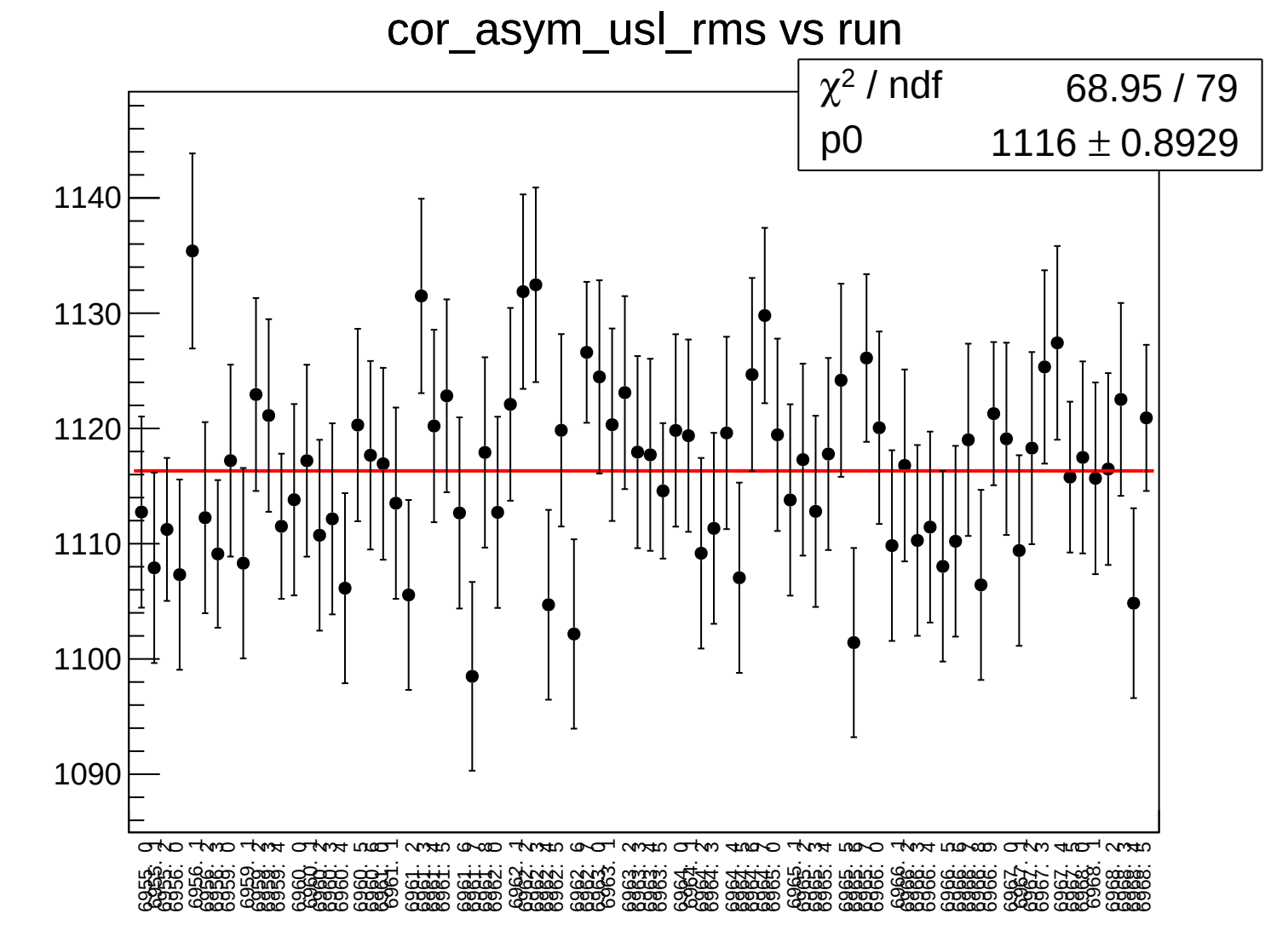

cor_asym_us_dd_mean vs run
χ² / ndf 75.15 / 79
p0 859.5 ± 881.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 80
Mean 1483
Std Dev 1441
2
1
0
−1
−2
−3

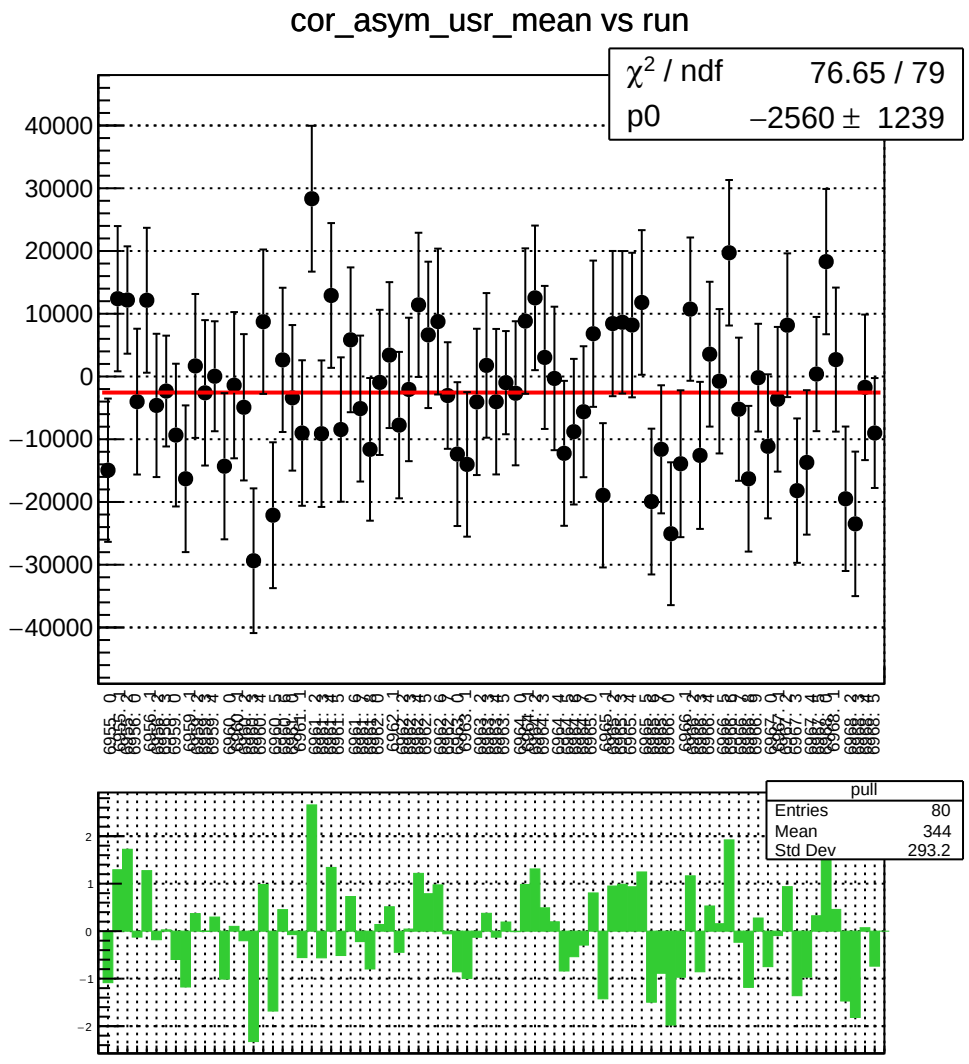

pull1D
Entries 80
Mean 0.002186
Std Dev 0.9692
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

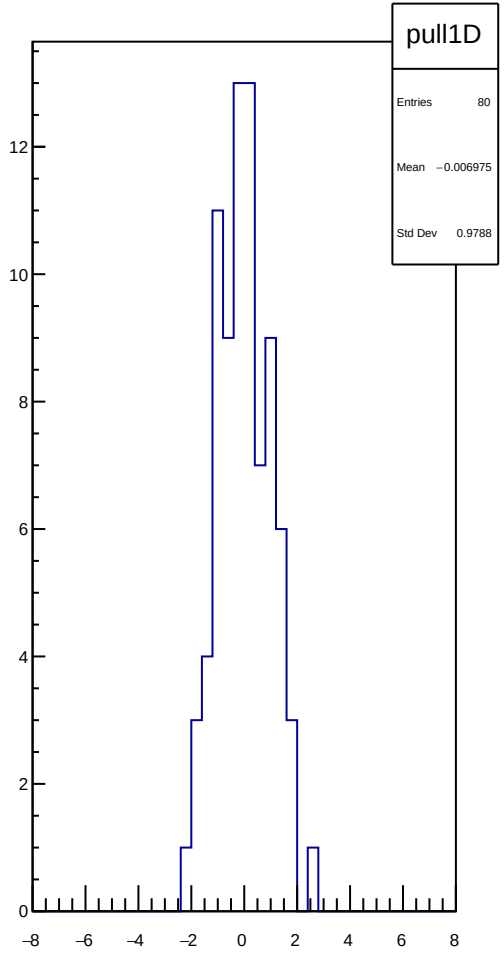

cor_asym_us_dd_rms vs run
χ² / ndf 77.34 / 79
p0 779.4 ± 0.6234
805
800
795
790
785
780
775
770
765
760

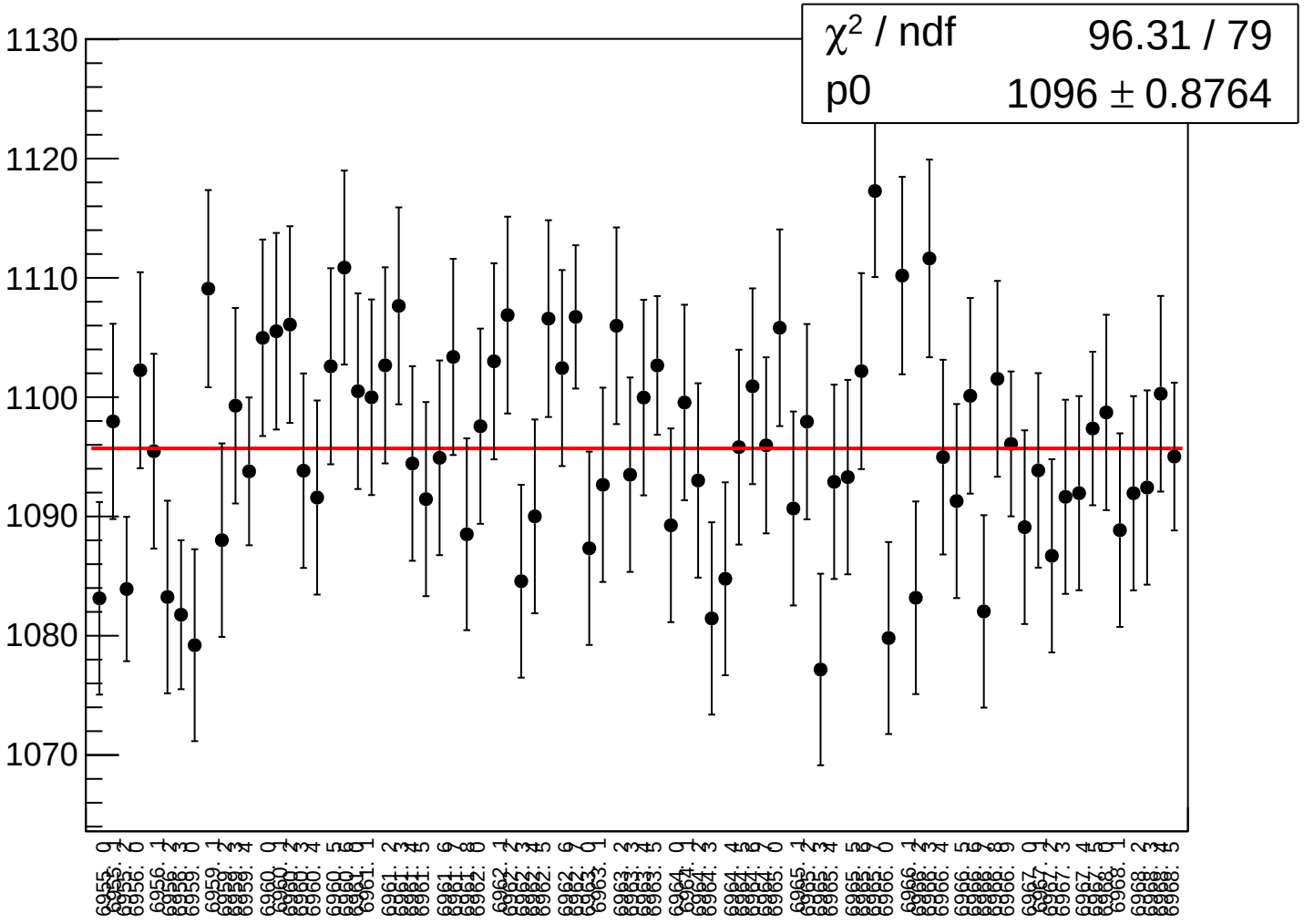

cor_asym_usl_mean vs run
χ² / ndf 97.48 / 79
p0 −890.9 ± 1263
40000
20000
0
−20000
−40000
pull
Entries 80
Mean −1362
Std Dev 1396
3
2
1
0
−1
−2
−3

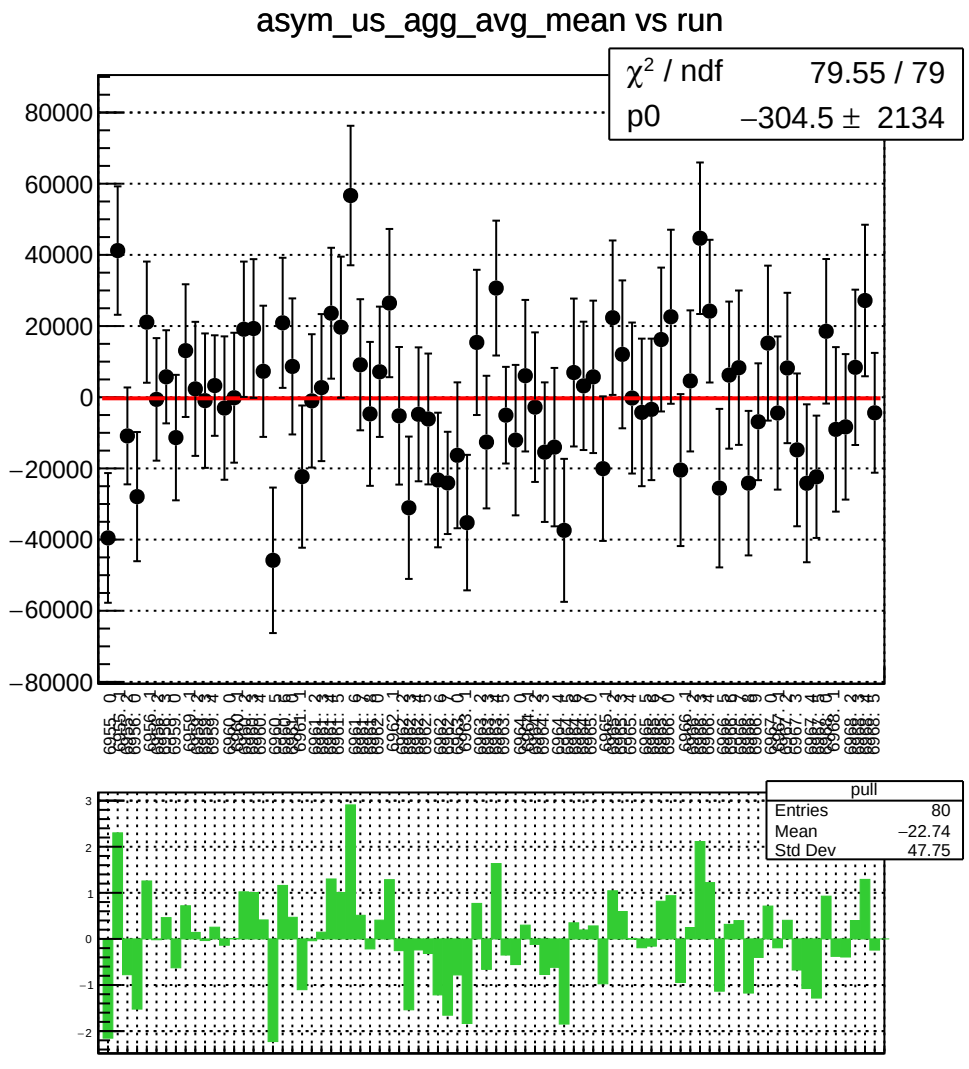

pull1D
Entries 80
Mean −0.001679
Std Dev 1.104
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

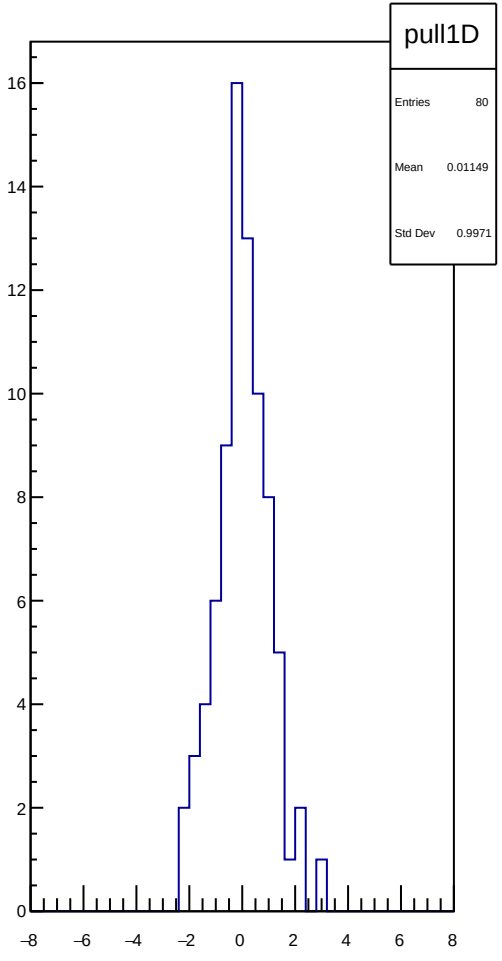

cor_asym_usl_rms vs run
χ² / ndf 68.95 / 79
p0 1116 ± 0.8929
1140
1130
1120
1110
1100
1090

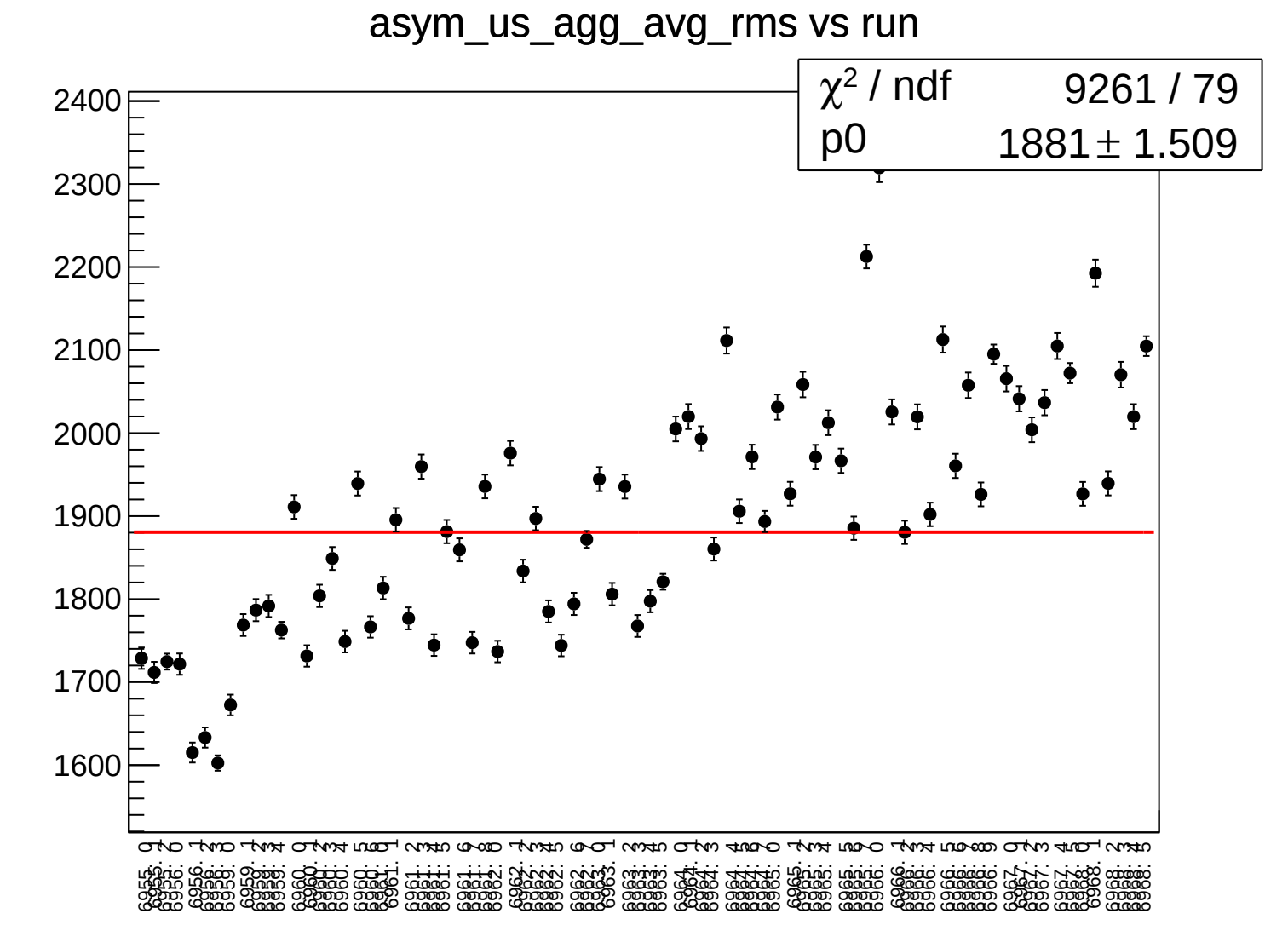

cor_asym_usr_mean vs run
χ² / ndf 76.65 / 79
p0 −2560 ± 1239
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 80
Mean 344
Std Dev 293.2
2
1
0
−1
−2

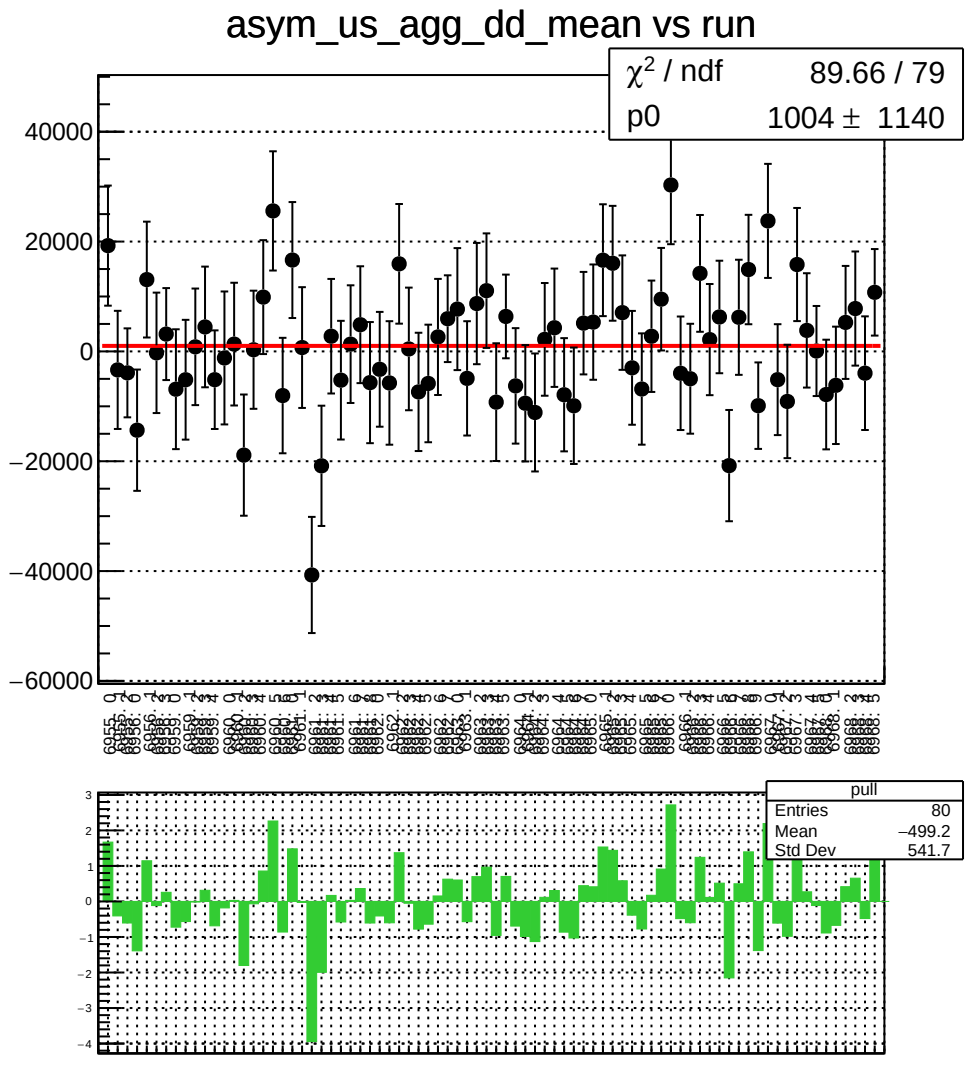

pull1D
Entries 80
Mean −0.006975
Std Dev 0.9788
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

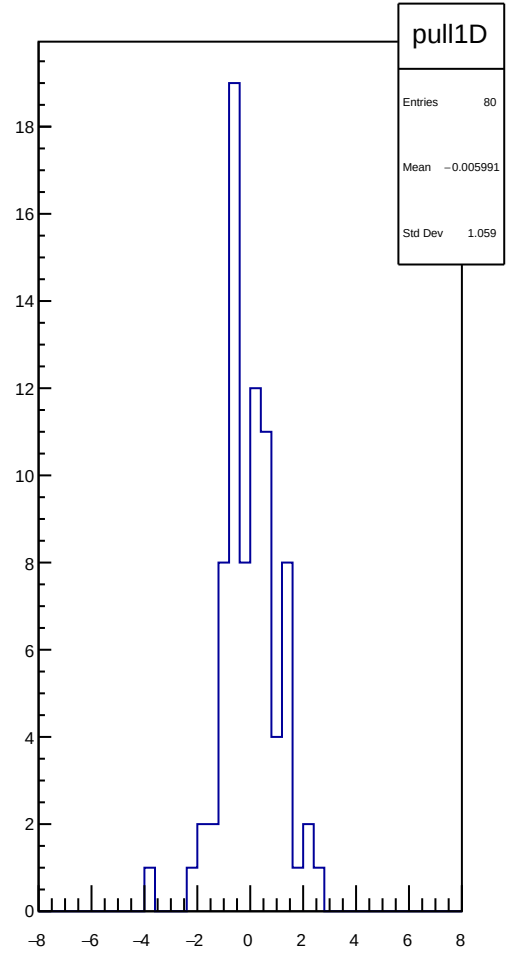

cor_asym_usr_rms vs run
χ² / ndf 96.31 / 79
p0 1096 ± 0.8764
1130
1120
1110
1100
1090
1080
1070

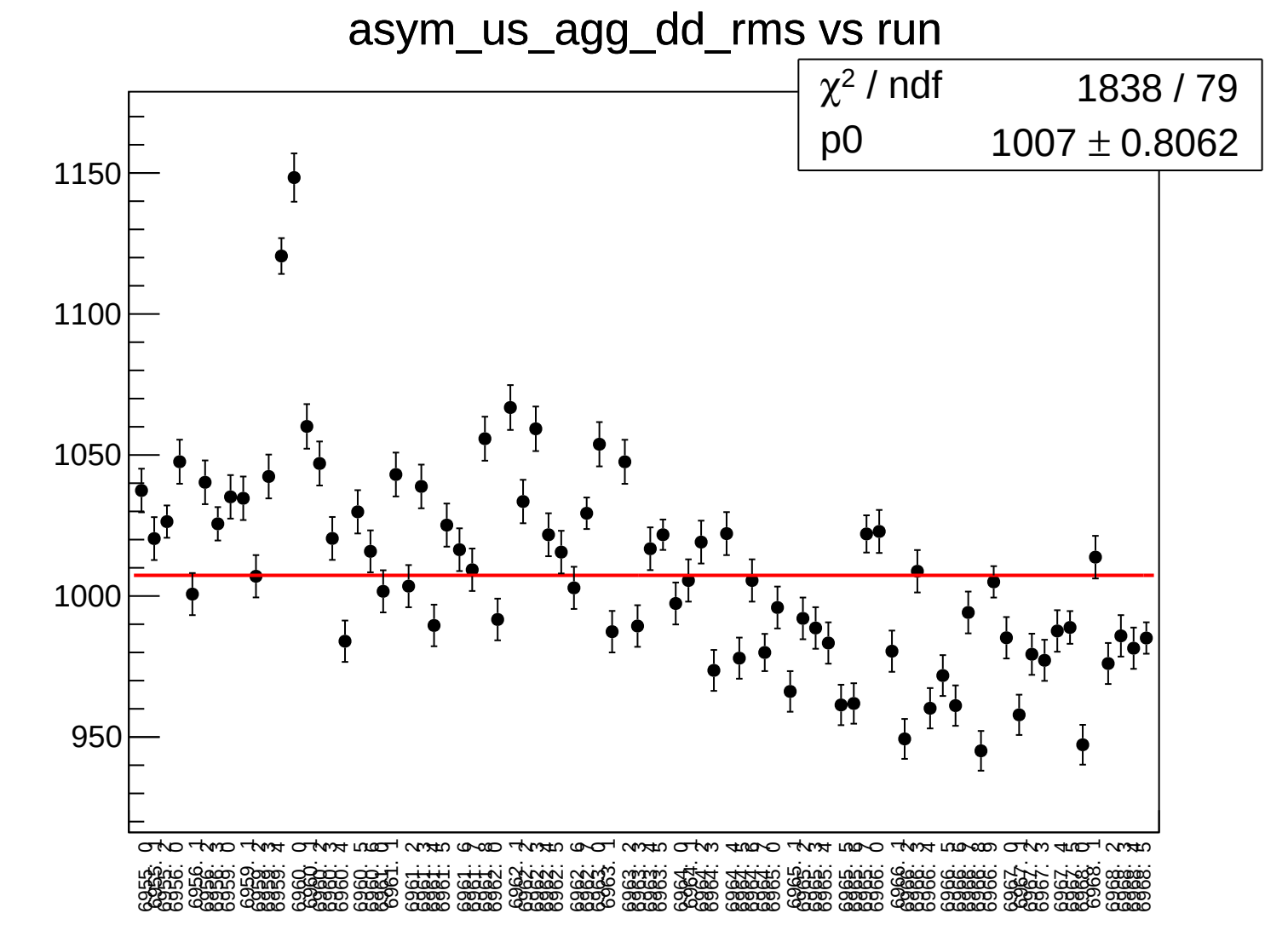

asym_us_agg_avg_mean vs run
χ² / ndf 79.55 / 79
p0 −304.5 ± 2134
pull
Entries 80
Mean −22.74
Std Dev 47.75

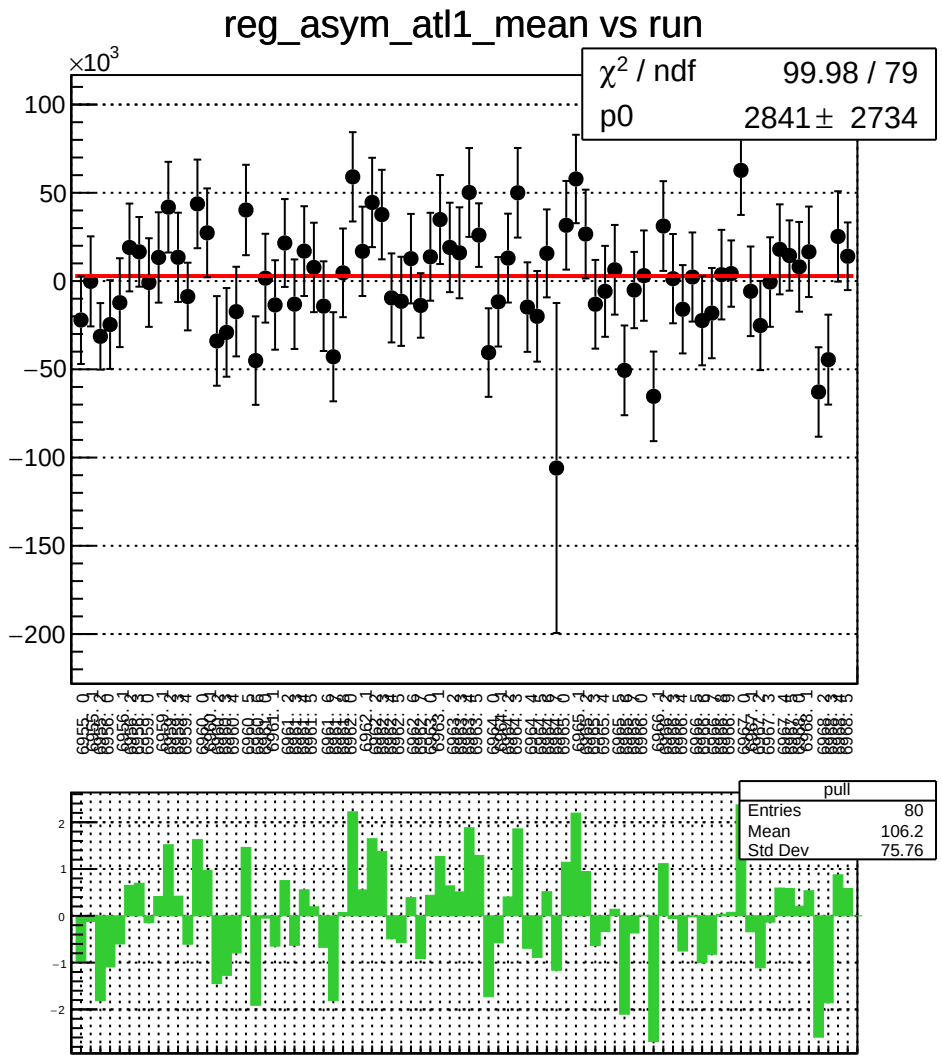

pull1D
Entries 80
Mean 0.01149
Std Dev 0.9971

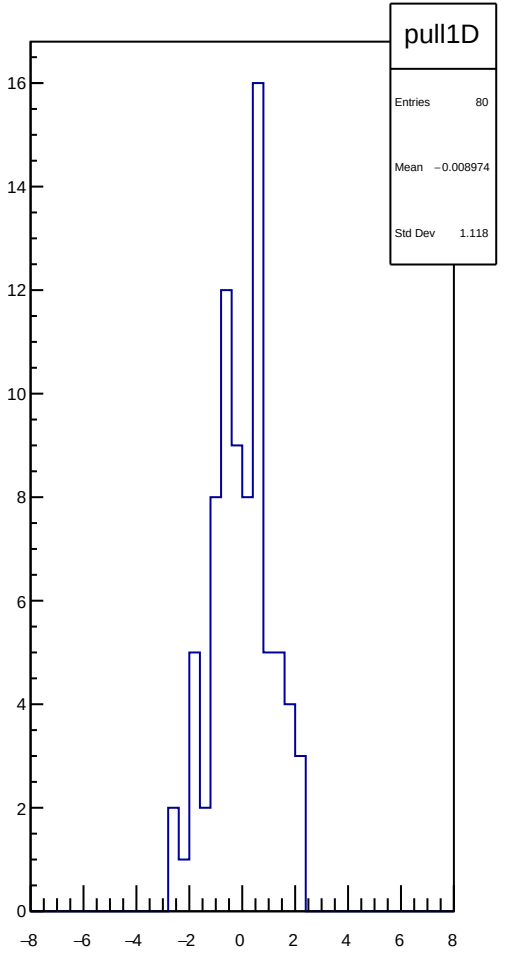

asym_us_agg_avg_rms vs run
χ² / ndf 9261 / 79
p0 1881 ± 1.509
2400
2300
2200
2100
2000
1900
1800
1700
1600

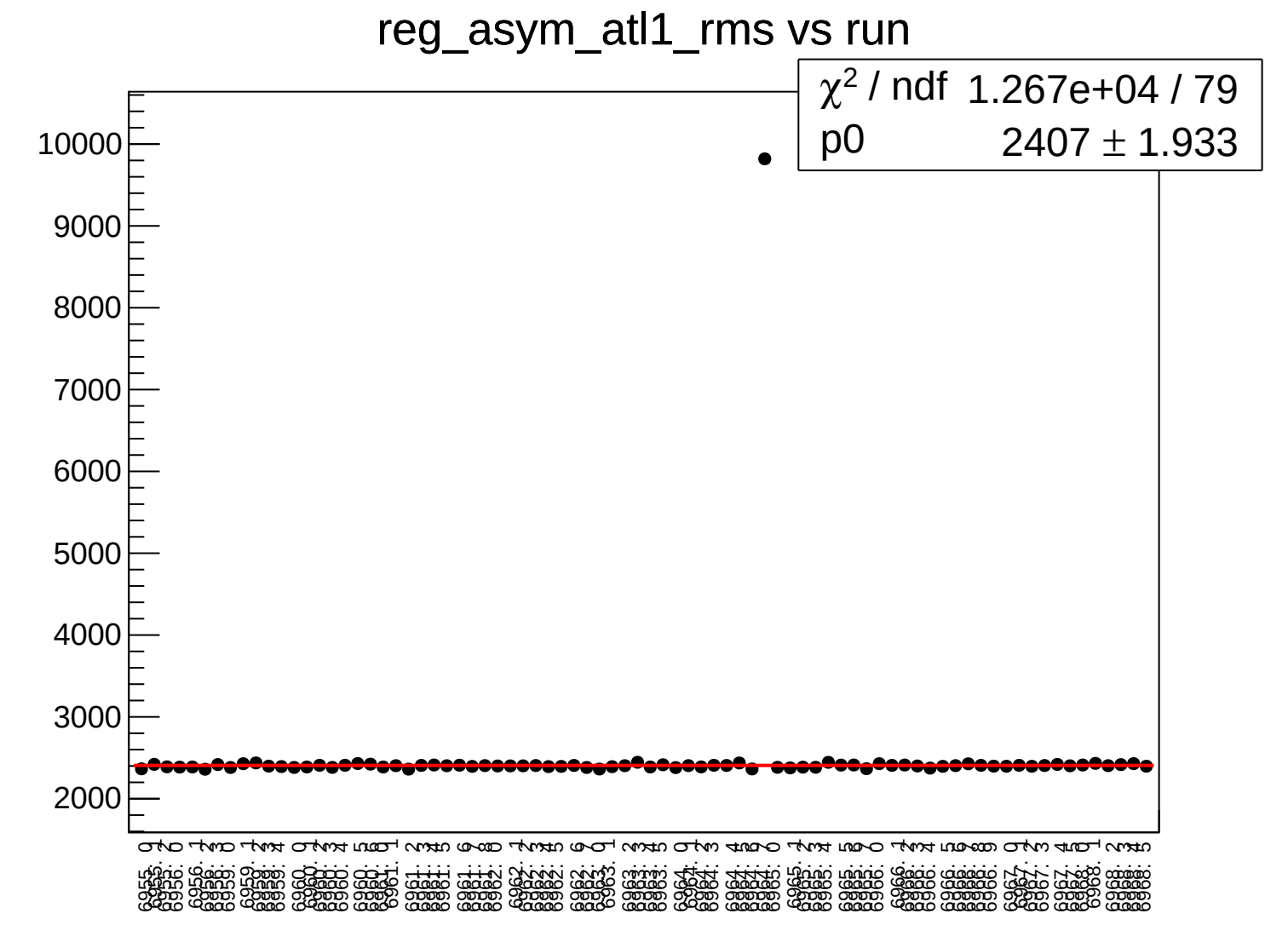

asym_us_agg_dd_mean vs run
χ² / ndf 89.66 / 79
p0 1004 ± 1140
40000
20000
0
−20000
−40000
−60000
pull
Entries 80
Mean −499.2
Std Dev 541.7
3
2
1
0
−1
−2
−3
−4

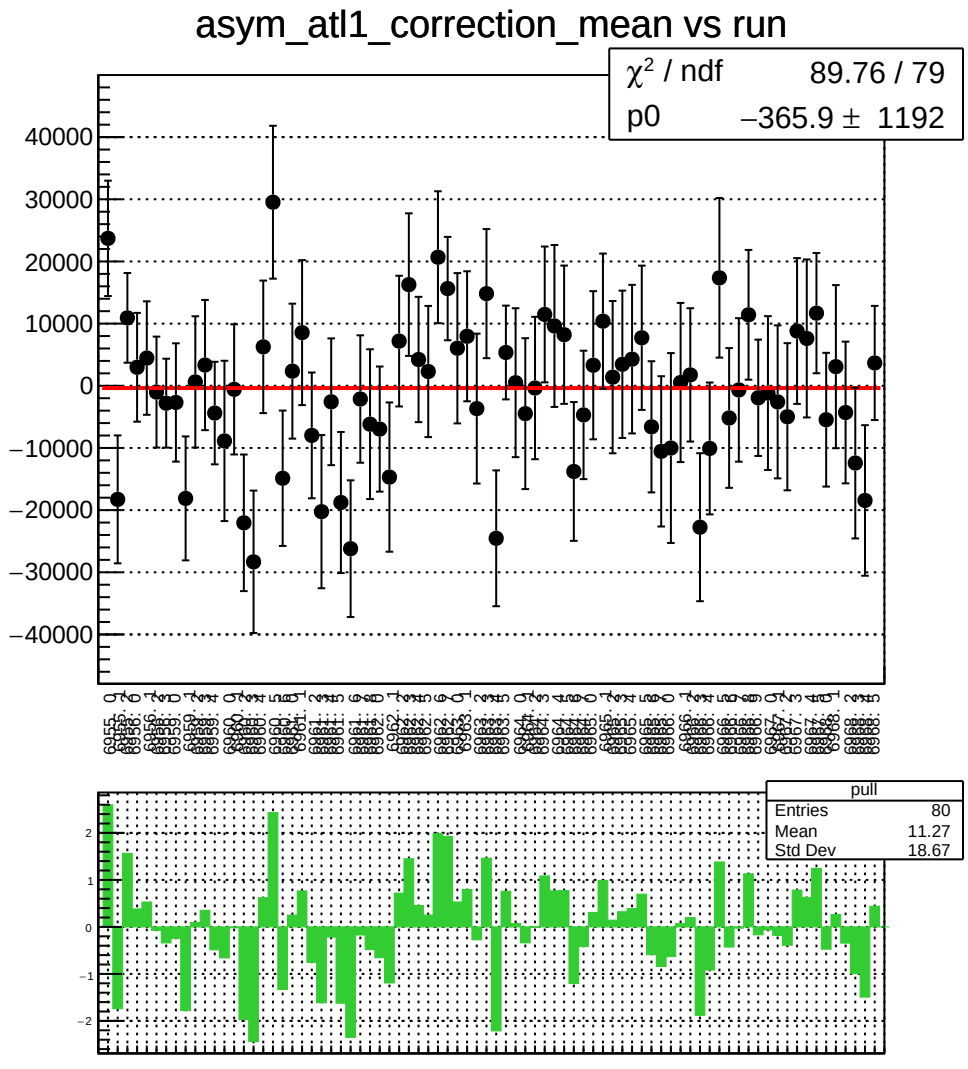

pull1D
Entries 80
Mean −0.005991
Std Dev 1.059
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

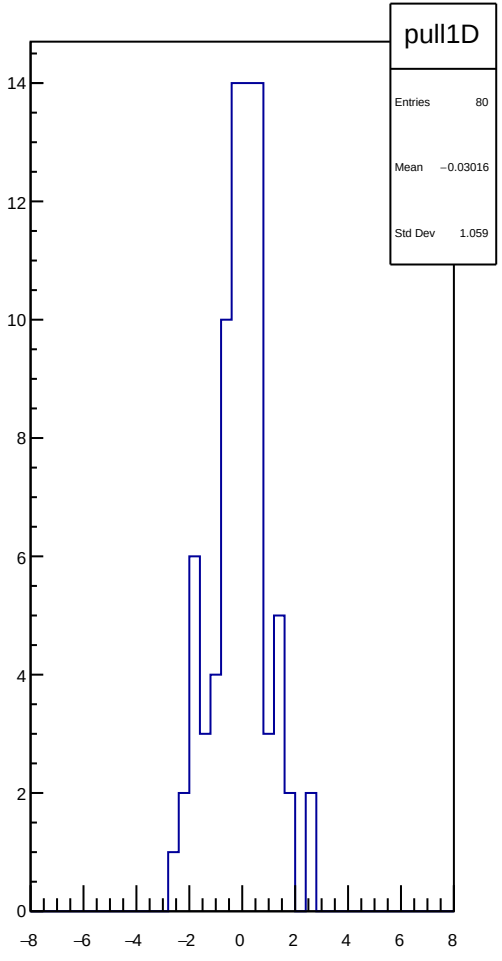

asym_us_agg_dd_rms vs run
χ^2 / ndf 1838 / 79
p0 1007 ± 0.8062
1150
1100
1050
1000
950

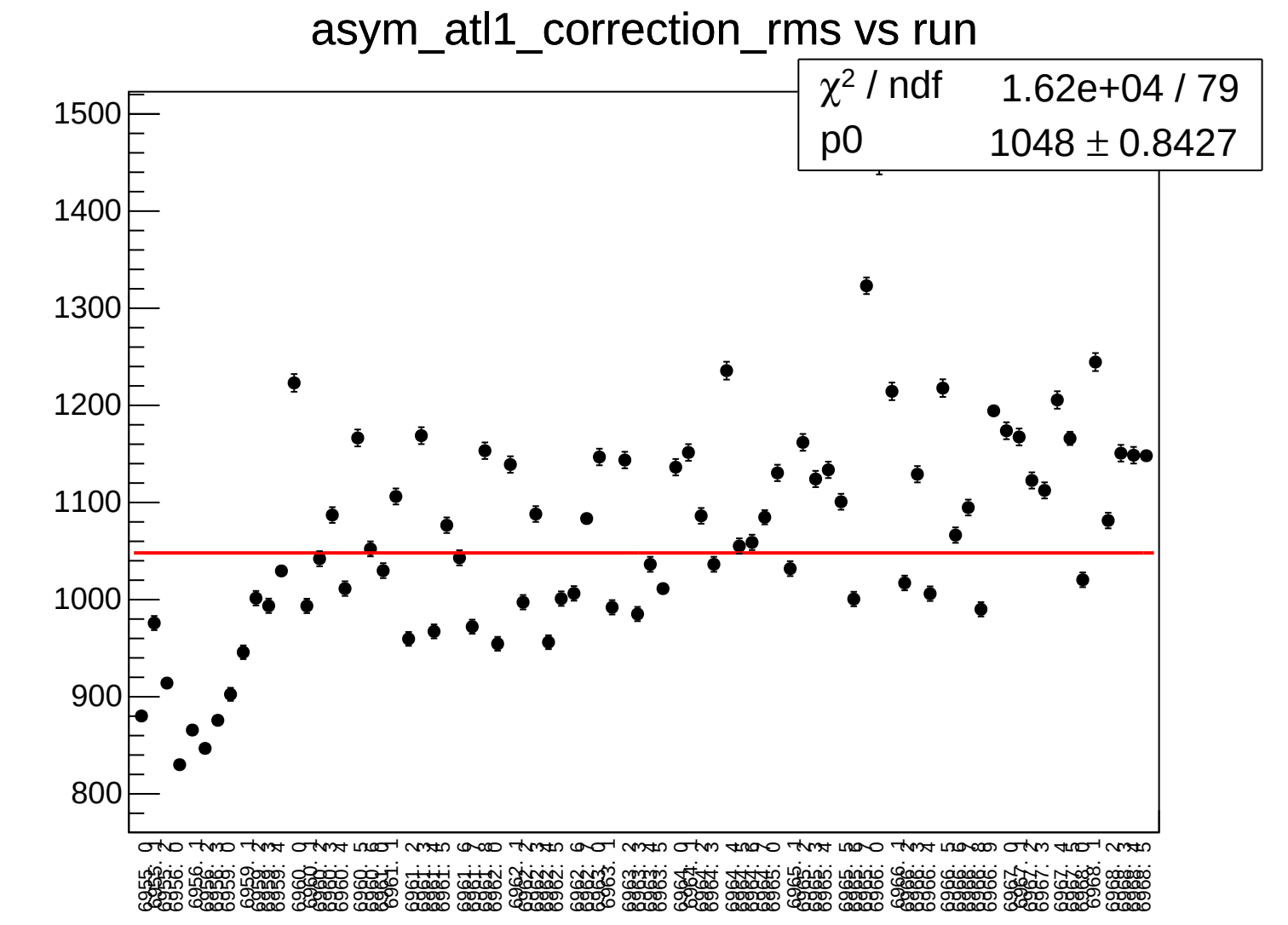

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 99.98 / 79
p0 2841 ± 2734
pull
Entries 80
Mean 106.2
Std Dev 75.76

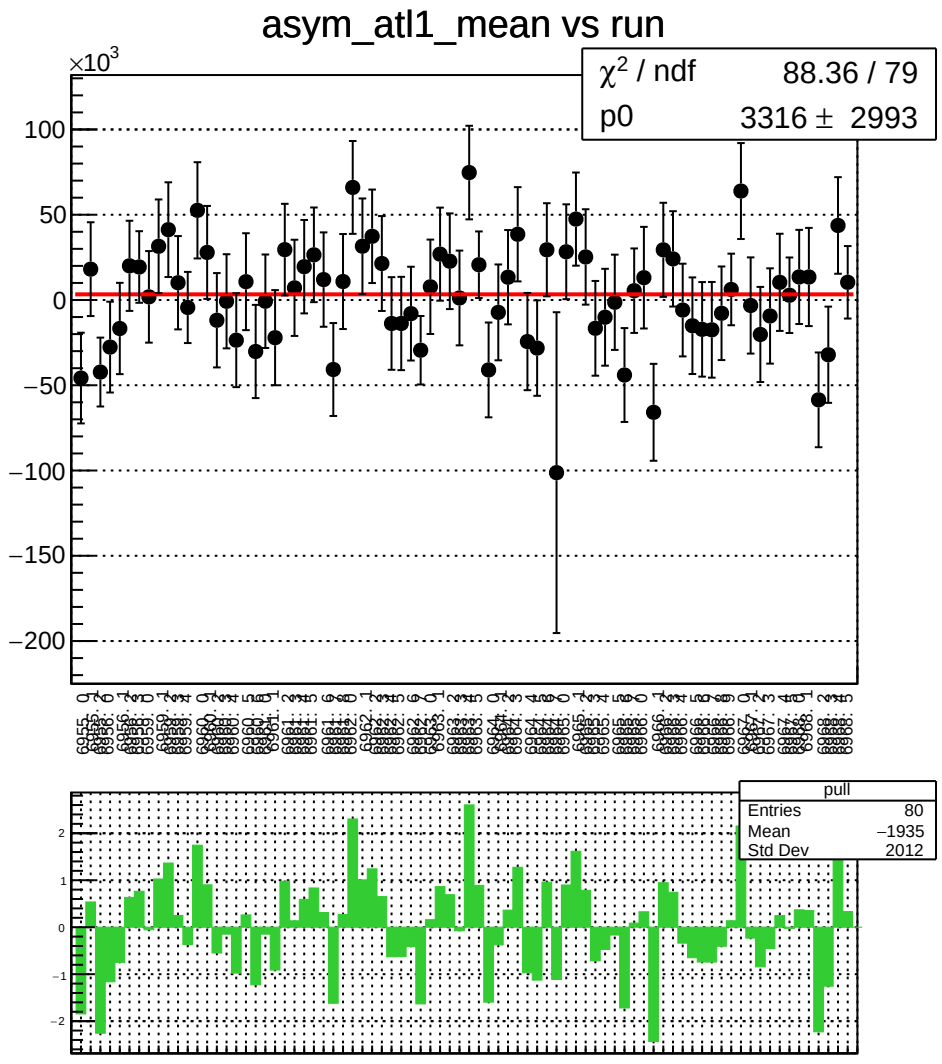

pull1D
Entries 80
Mean −0.008974
Std Dev 1.118

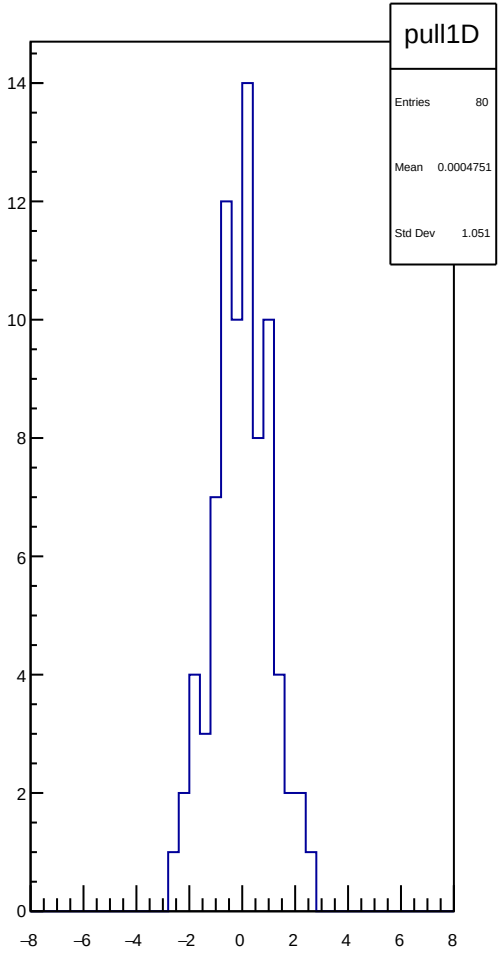

reg_asym_atl1_rms vs run
χ² / ndf 1.267e+04 / 79
p0 2407 ± 1.933
10000
9000
8000
7000
6000
5000
4000
3000
2000

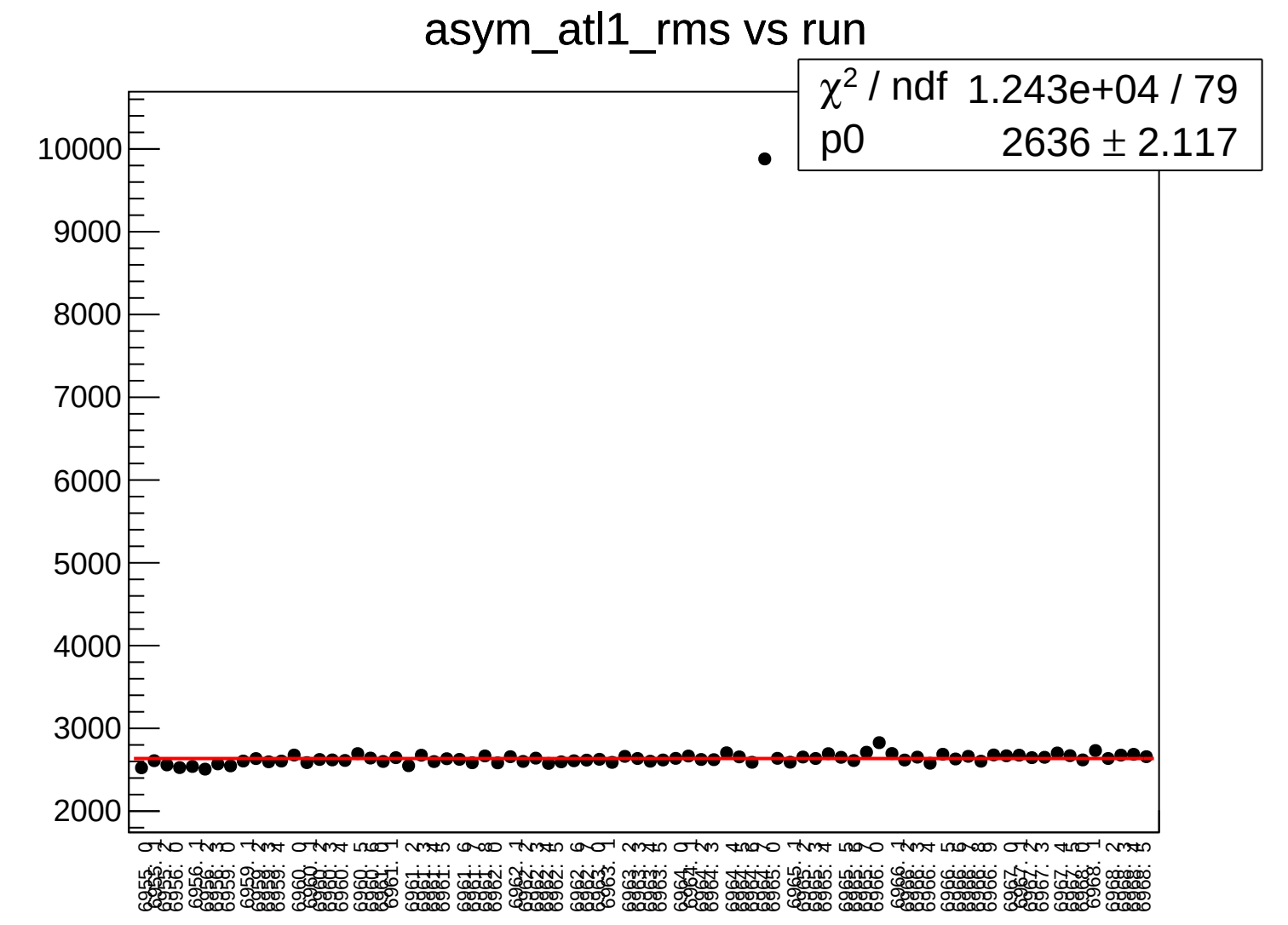

asym_atl1_correction_mean vs run
χ² / ndf 89.76 / 79
p0 −365.9 ± 1192
pull
Entries 80
Mean 11.27
Std Dev 18.67

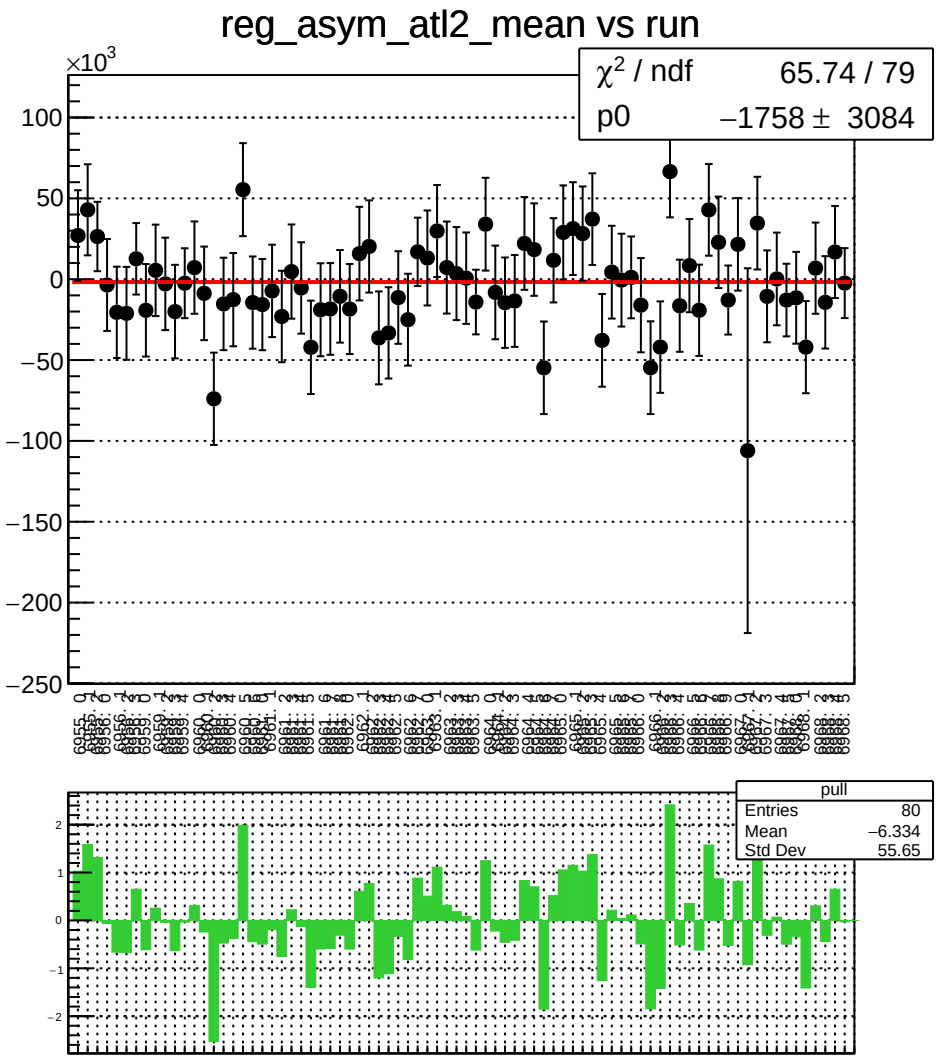

pull1D
Entries 80
Mean −0.03016
Std Dev 1.059

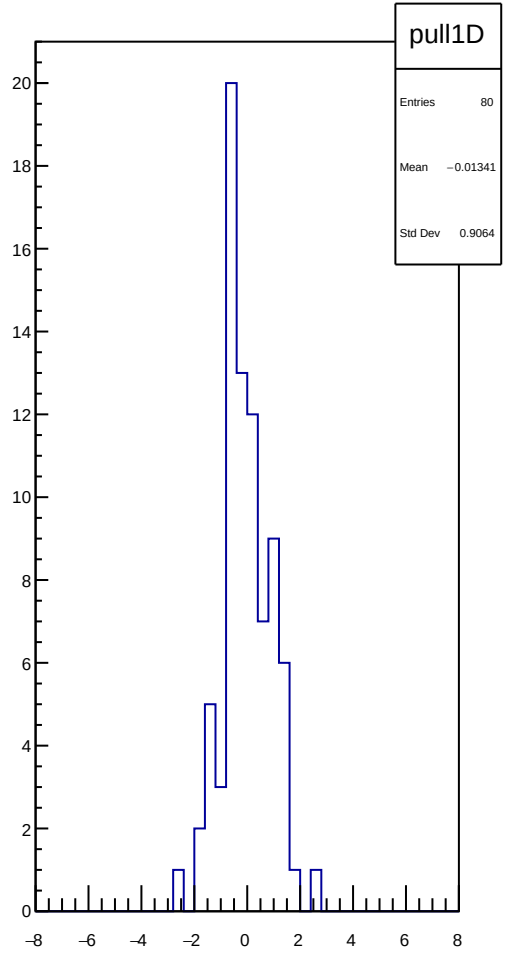

asym_atl1_correction_rms vs run
χ² / ndf 1.62e+04 / 79
p0 1048 ± 0.8427
1500
1400
1300
1200
1100
1000
900
800

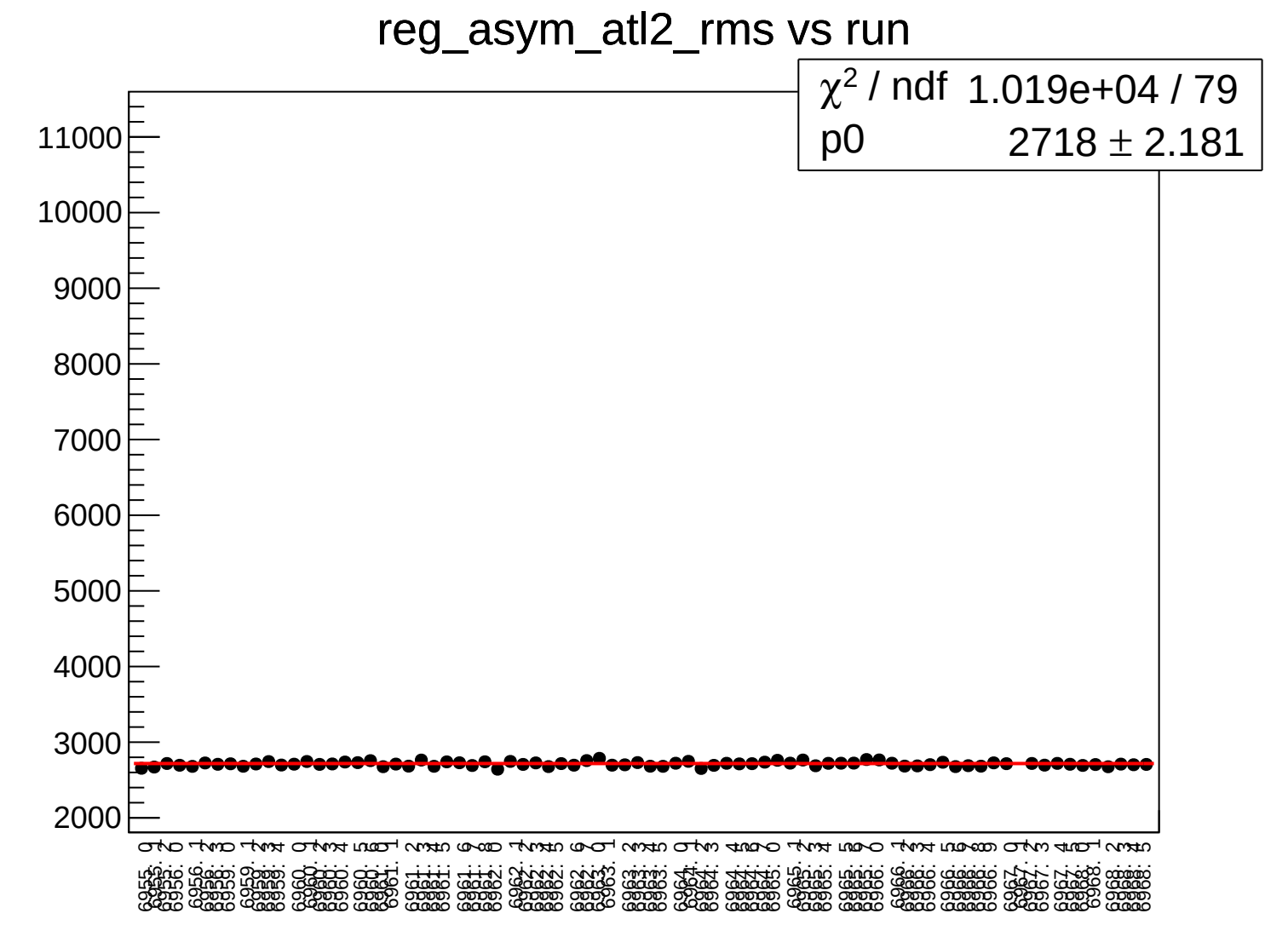

asym_atl1_mean vs run
×10^3
χ² / ndf 88.36 / 79
p0 3316 ± 2993
100
50
0
−50
−100
−150
−200
pull
Entries 80
Mean −1935
Std Dev 2012
2
1
0
−1
−2

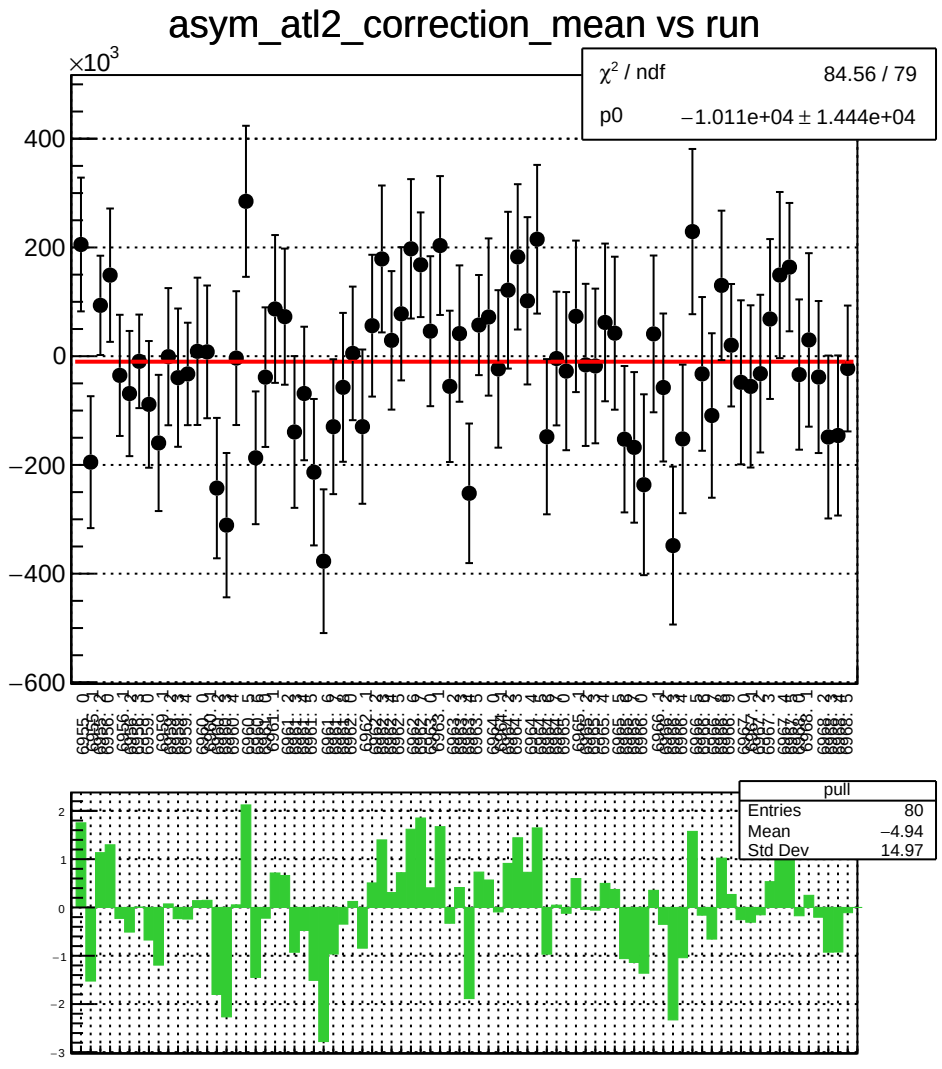

pull1D
Entries 80
Mean 0.0004751
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

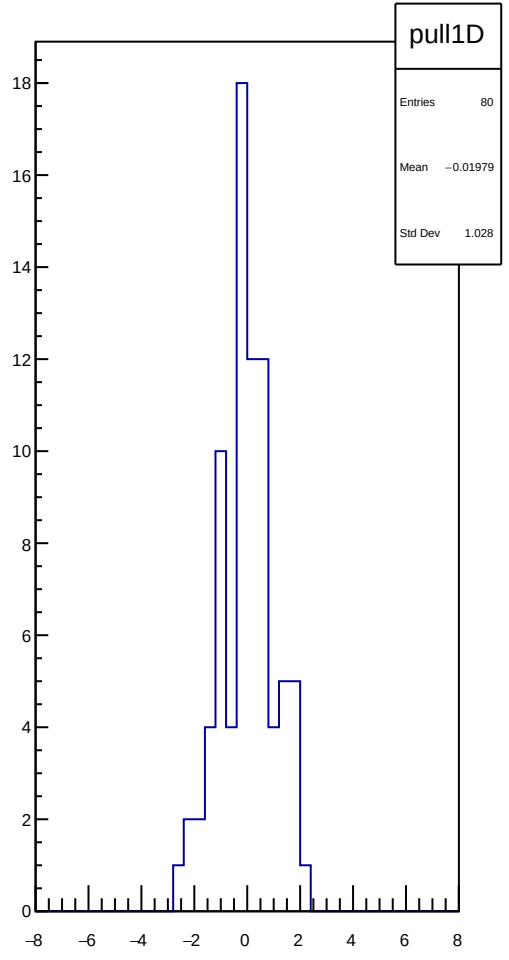

asym_atl1_rms vs run
χ^2 / ndf 1.243e+04 / 79
p0 2636 ± 2.117
10000
9000
8000
7000
6000
5000
4000
3000
2000

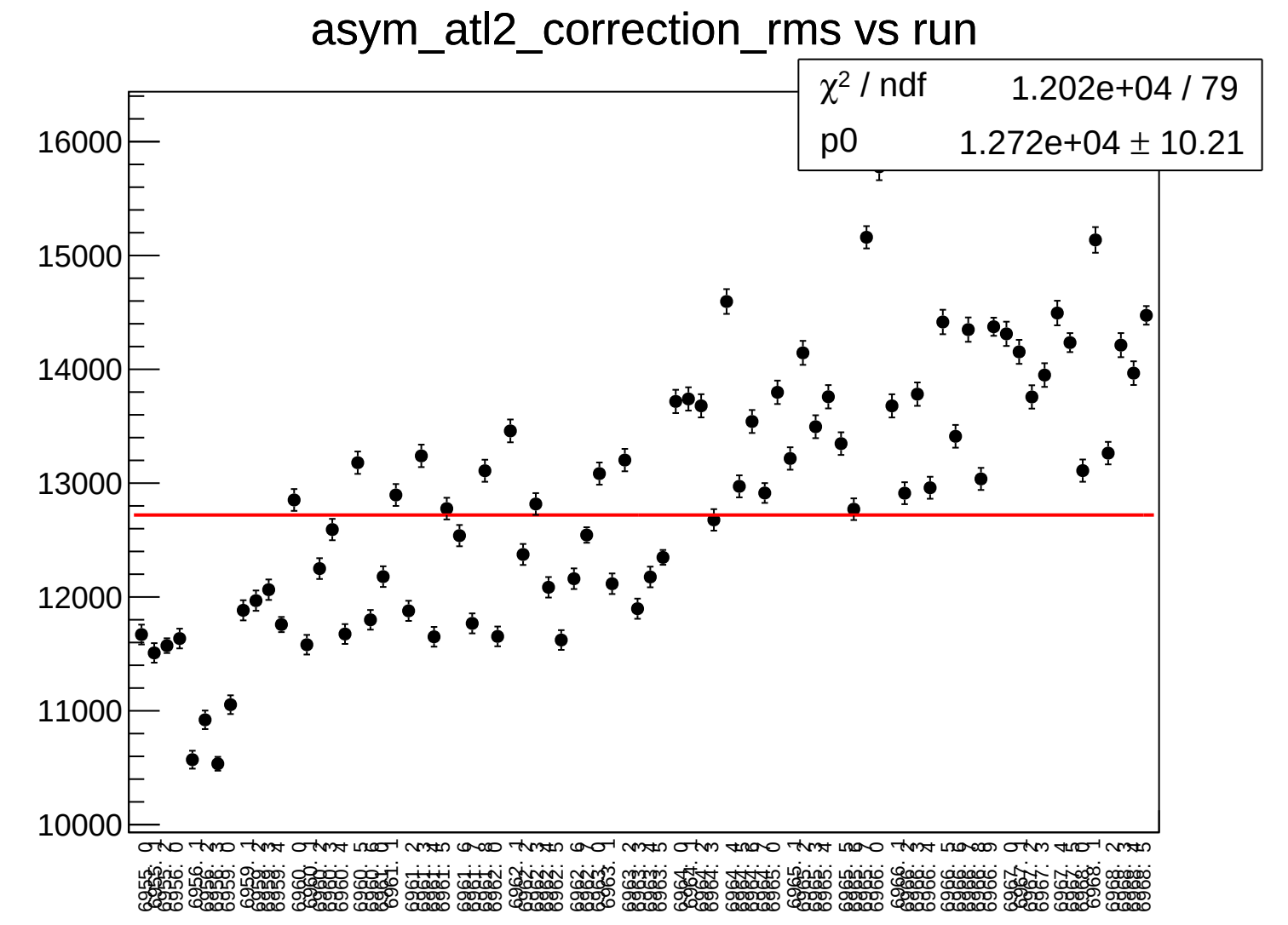

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 65.74 / 79
p0 −1758 ± 3084
pull
Entries 80
Mean −6.334
Std Dev 55.65

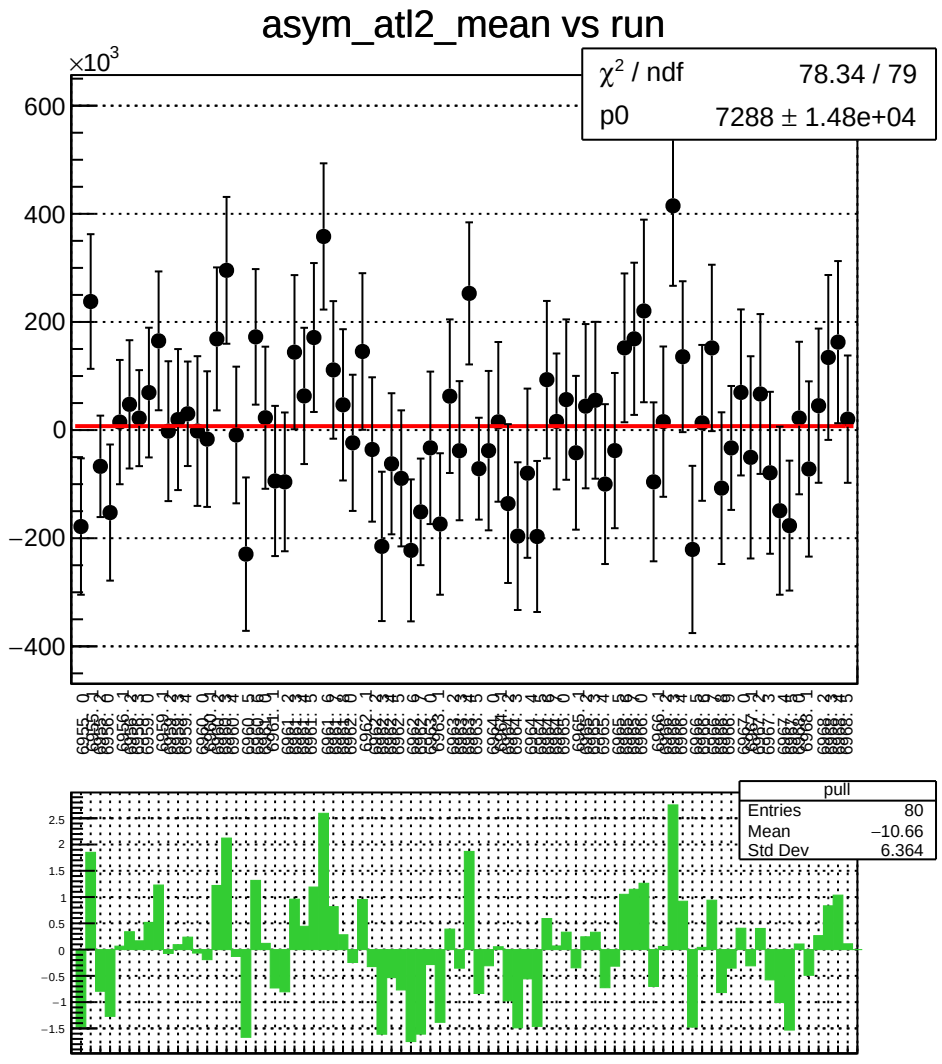

pull1D
Entries 80
Mean −0.01341
Std Dev 0.9064

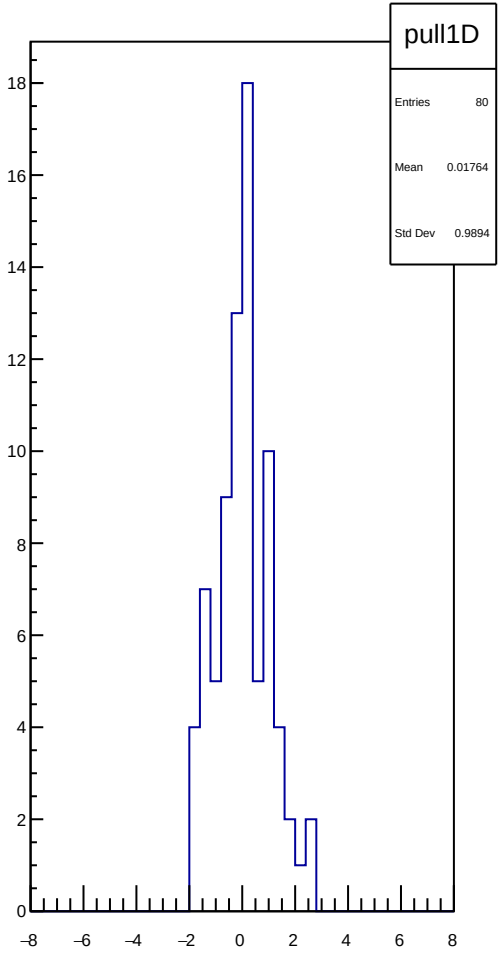

reg_asym_atl2_rms vs run
χ^2 / ndf 1.019e+04 / 79
p0 2718 ± 2.181
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

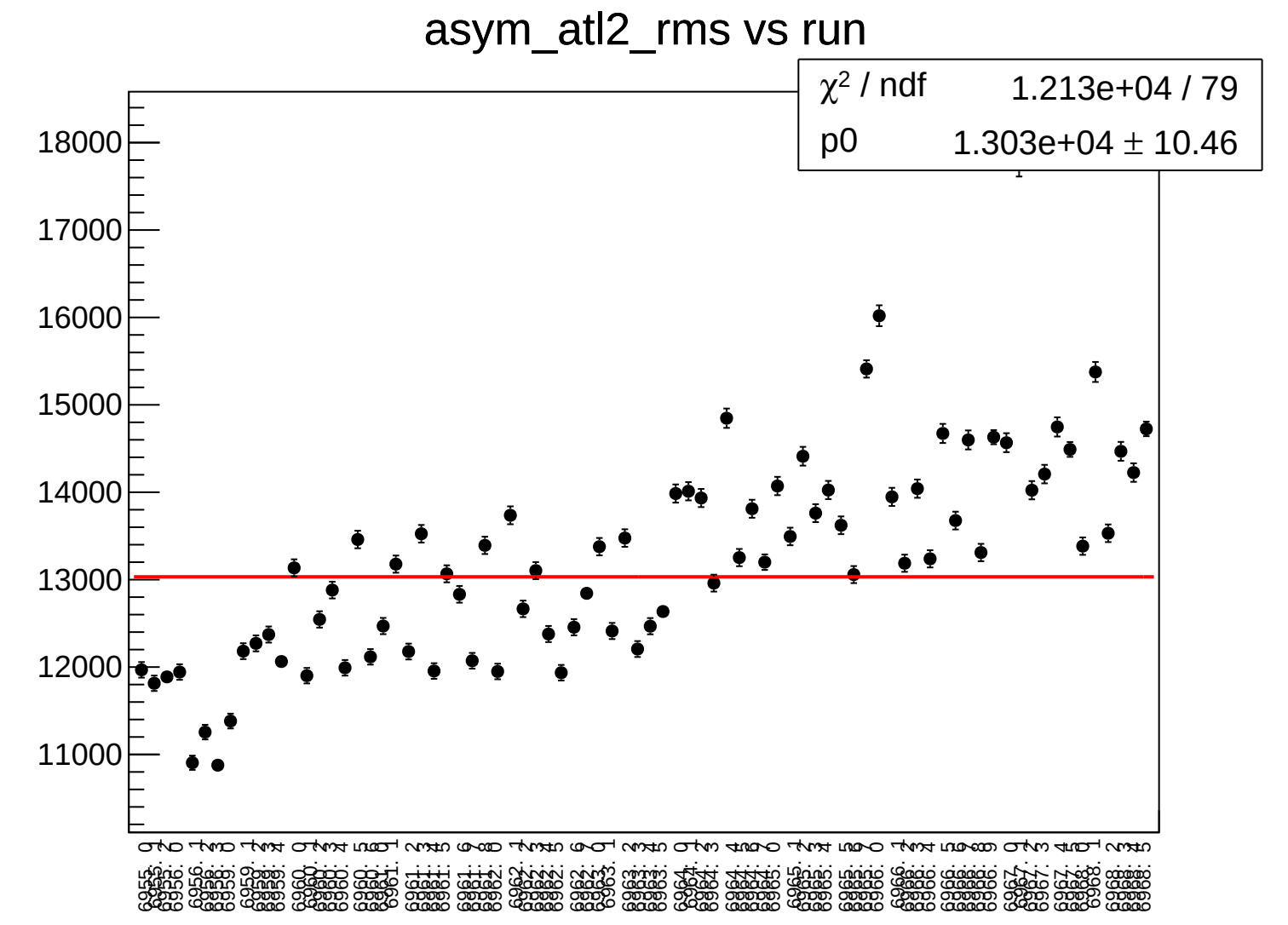

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 84.56 / 79
p0 −1.011e+04 ± 1.444e+04
pull
Entries 80
Mean −4.94
Std Dev 14.97

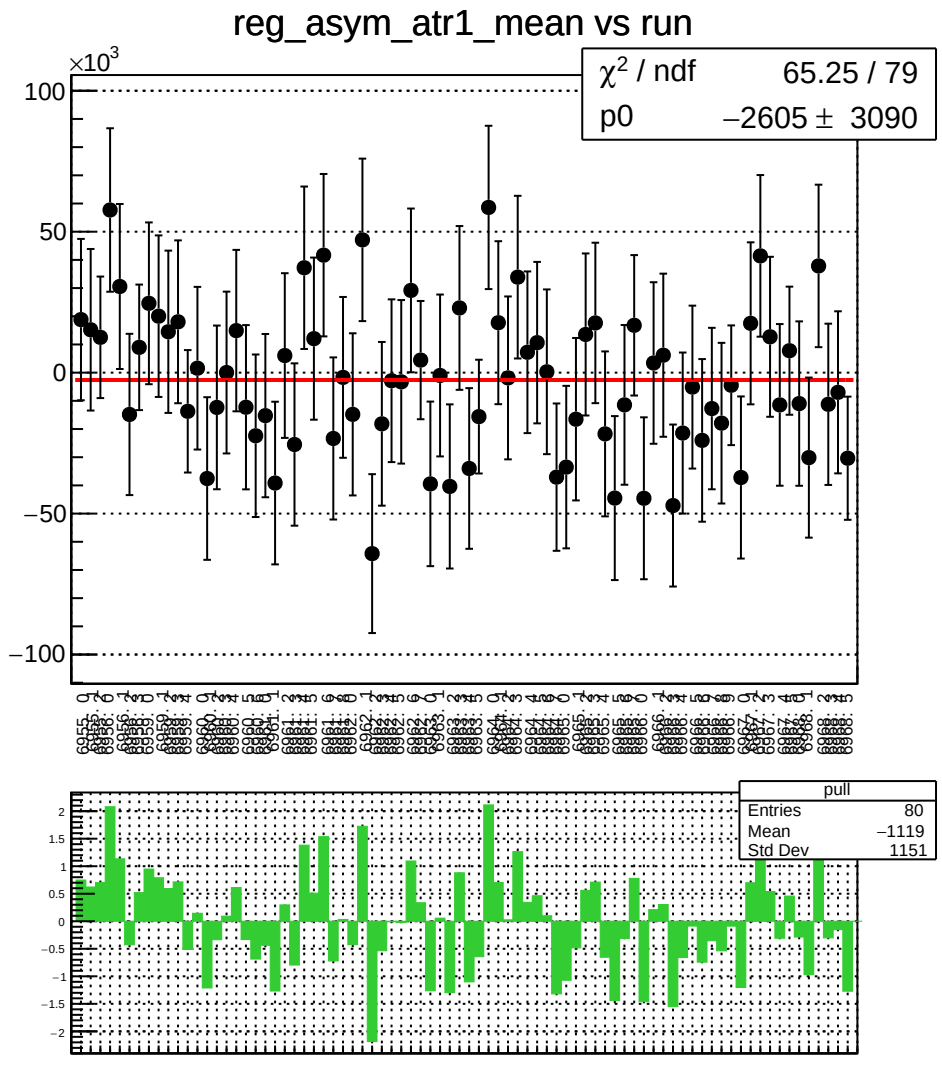

pull1D
Entries 80
Mean −0.01979
Std Dev 1.028

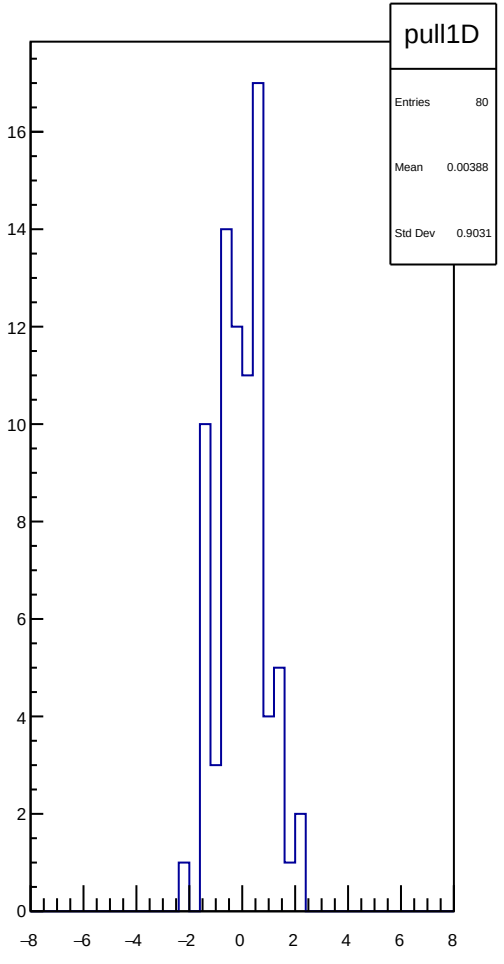

asym_atl2_correction_rms vs run
χ² / ndf 1.202e+04 / 79
p0 1.272e+04 ± 10.21
16000
15000
14000
13000
12000
11000
10000

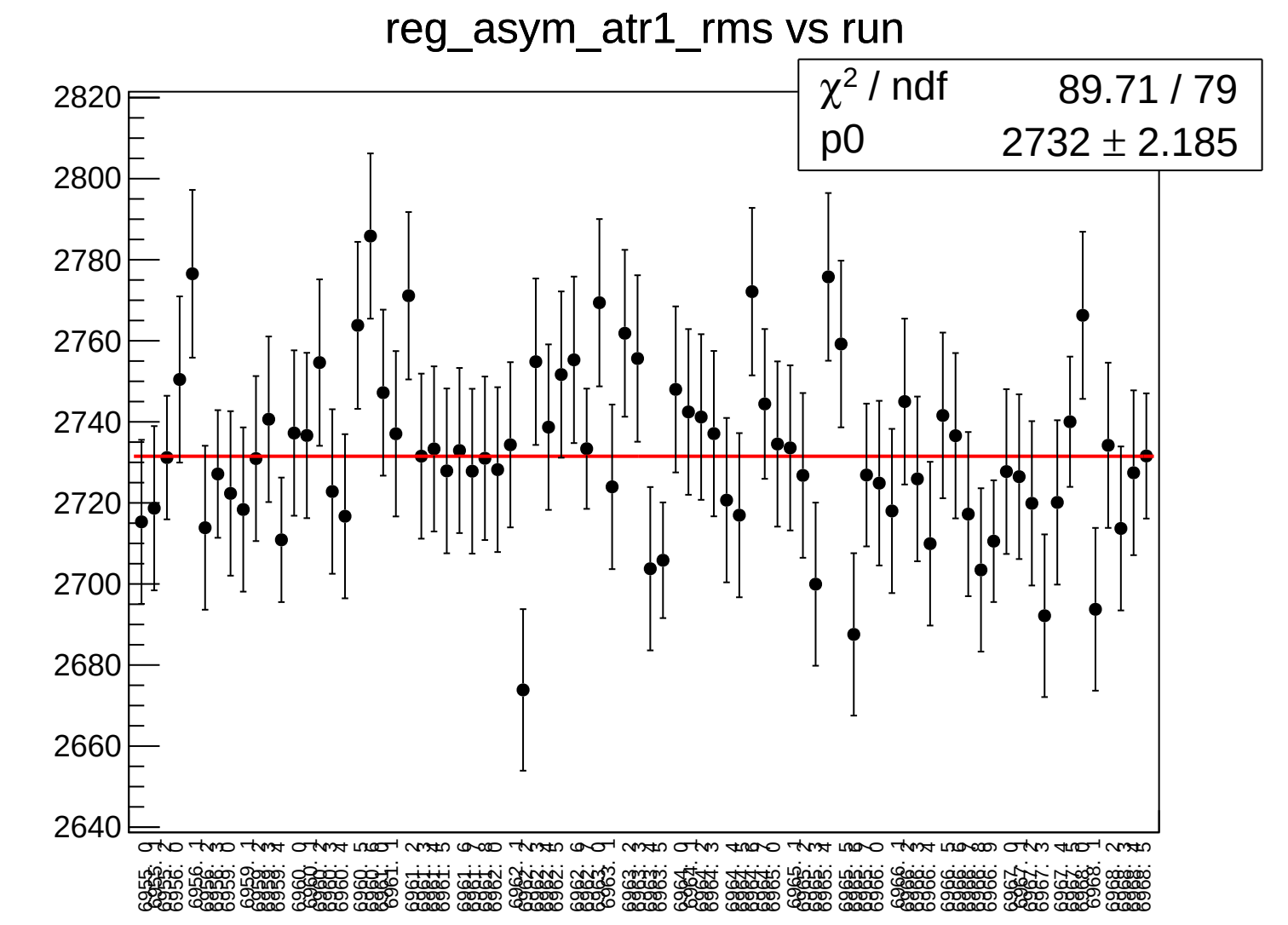

asym_atl2_mean vs run
×10^3
χ² / ndf 78.34 / 79
p0 7288 ± 1.48e+04
600
400
200
0
−200
−400
pull
Entries 80
Mean −10.66
Std Dev 6.364
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

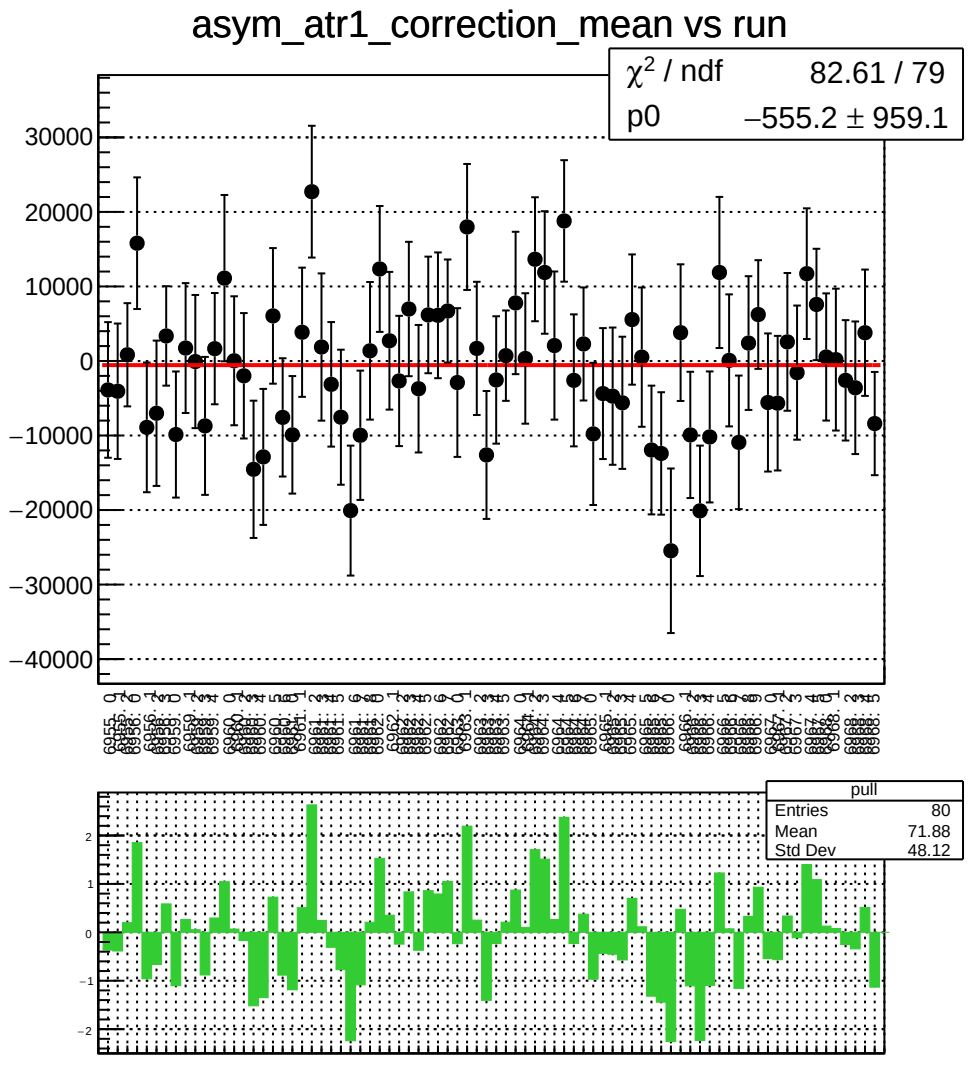

pull1D
Entries 80
Mean 0.01764
Std Dev 0.9894
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

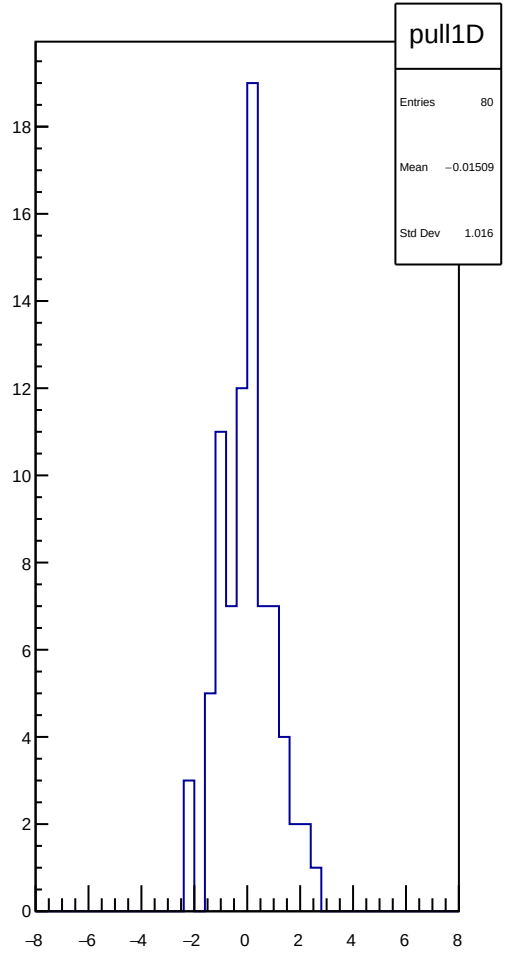

asym_atl2_rms vs run
χ² / ndf 1.213e+04 / 79
p0 1.303e+04 ± 10.46
18000
17000
16000
15000
14000
13000
12000
11000

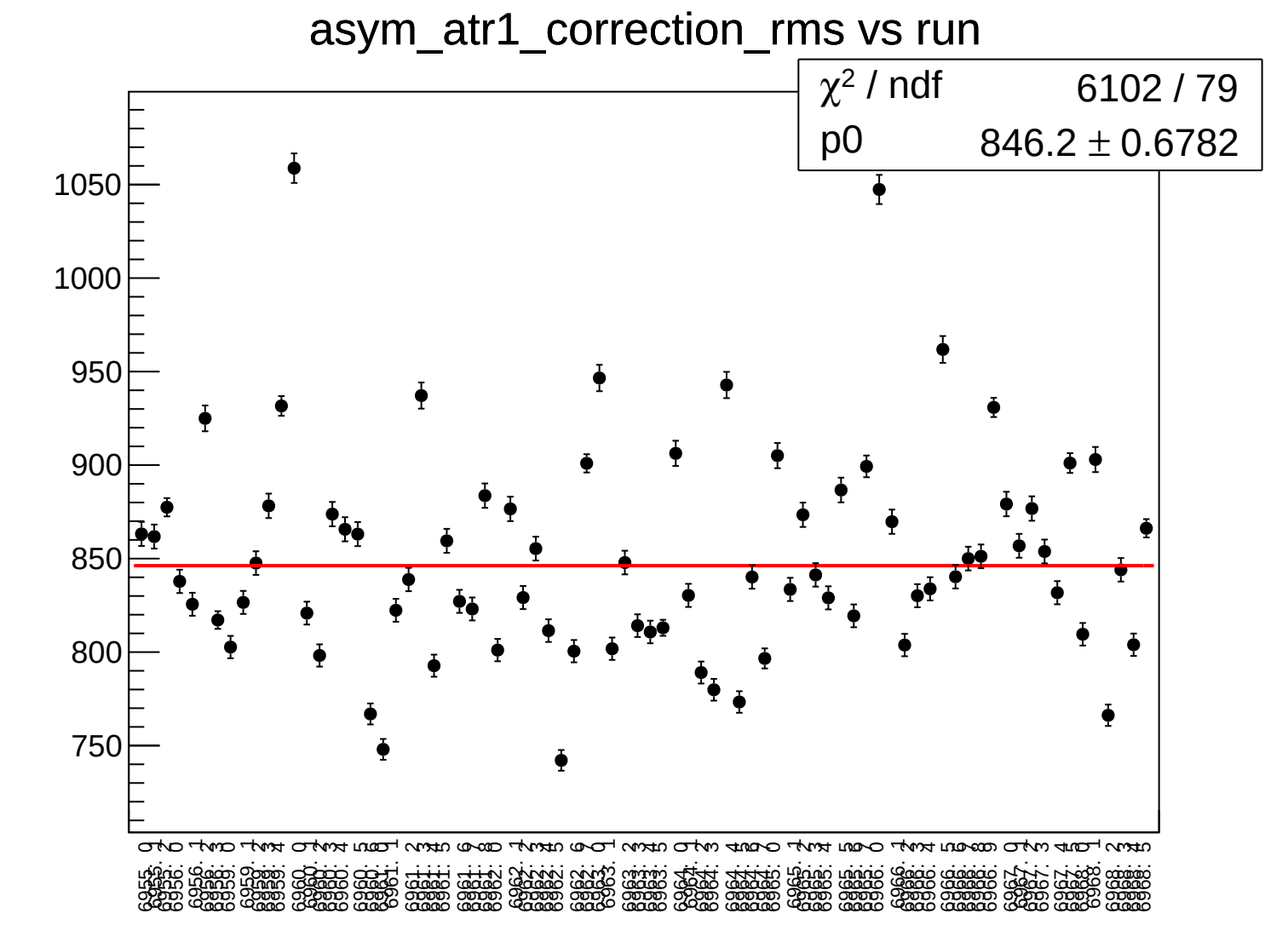

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 65.25 / 79
p0 −2605 ± 3090
100
50
0
−50
−100
pull
Entries 80
Mean −1119
Std Dev 1151
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

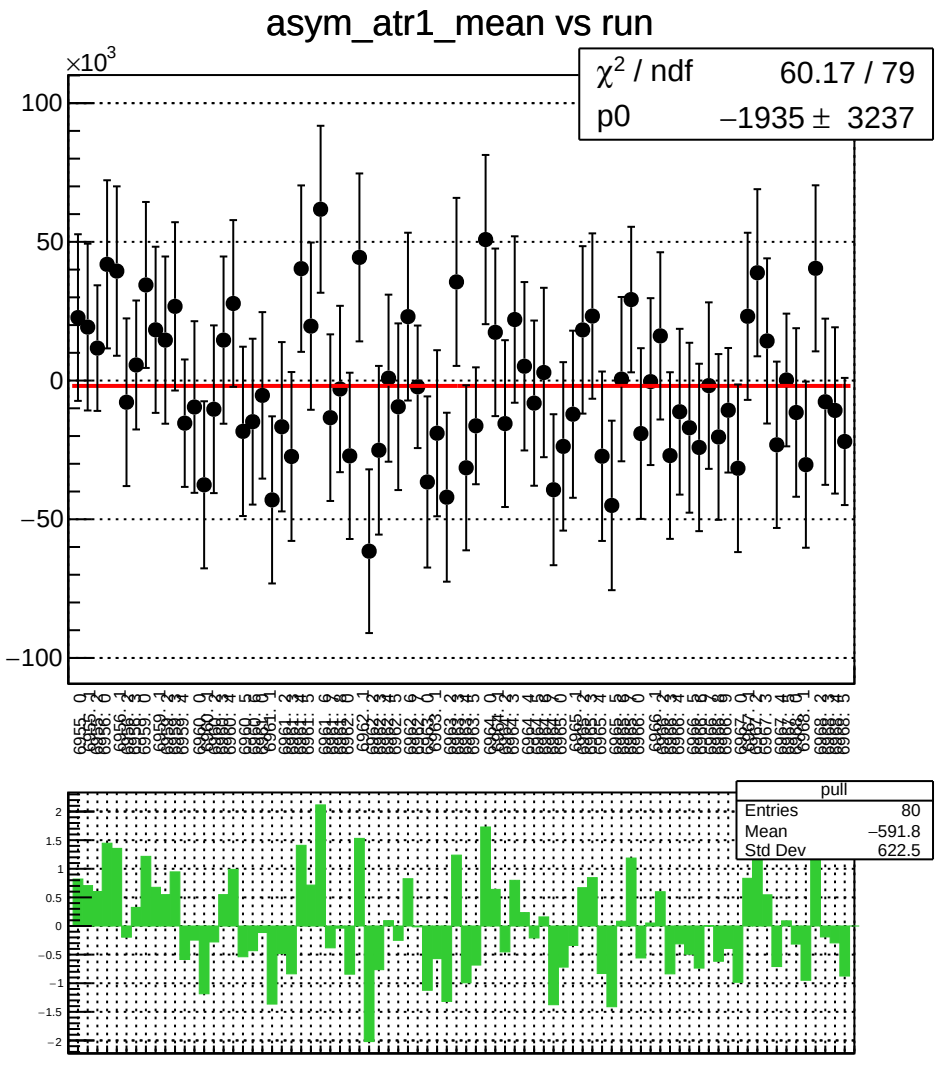

pull1D
Entries 80
Mean 0.00388
Std Dev 0.9031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

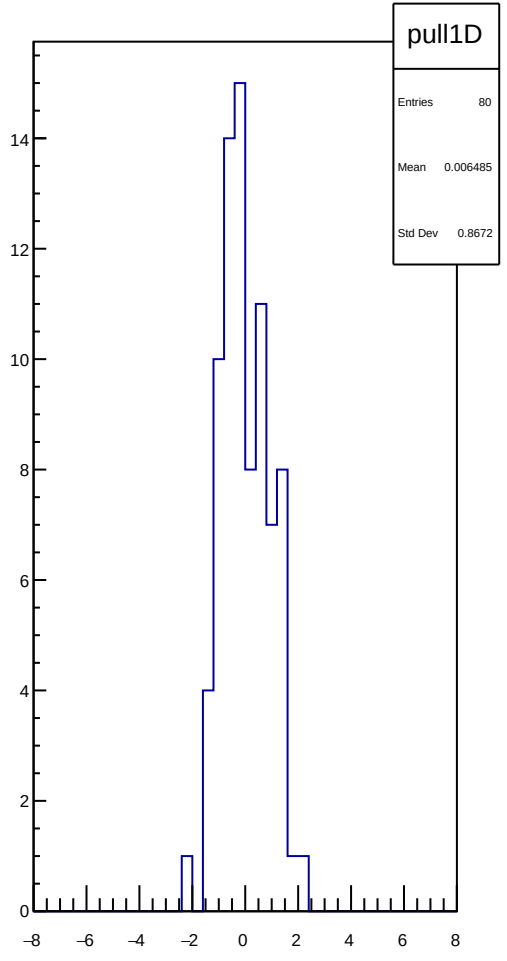

reg_asym_atr1_rms vs run
χ² / ndf 89.71 / 79
p0 2732 ± 2.185
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640

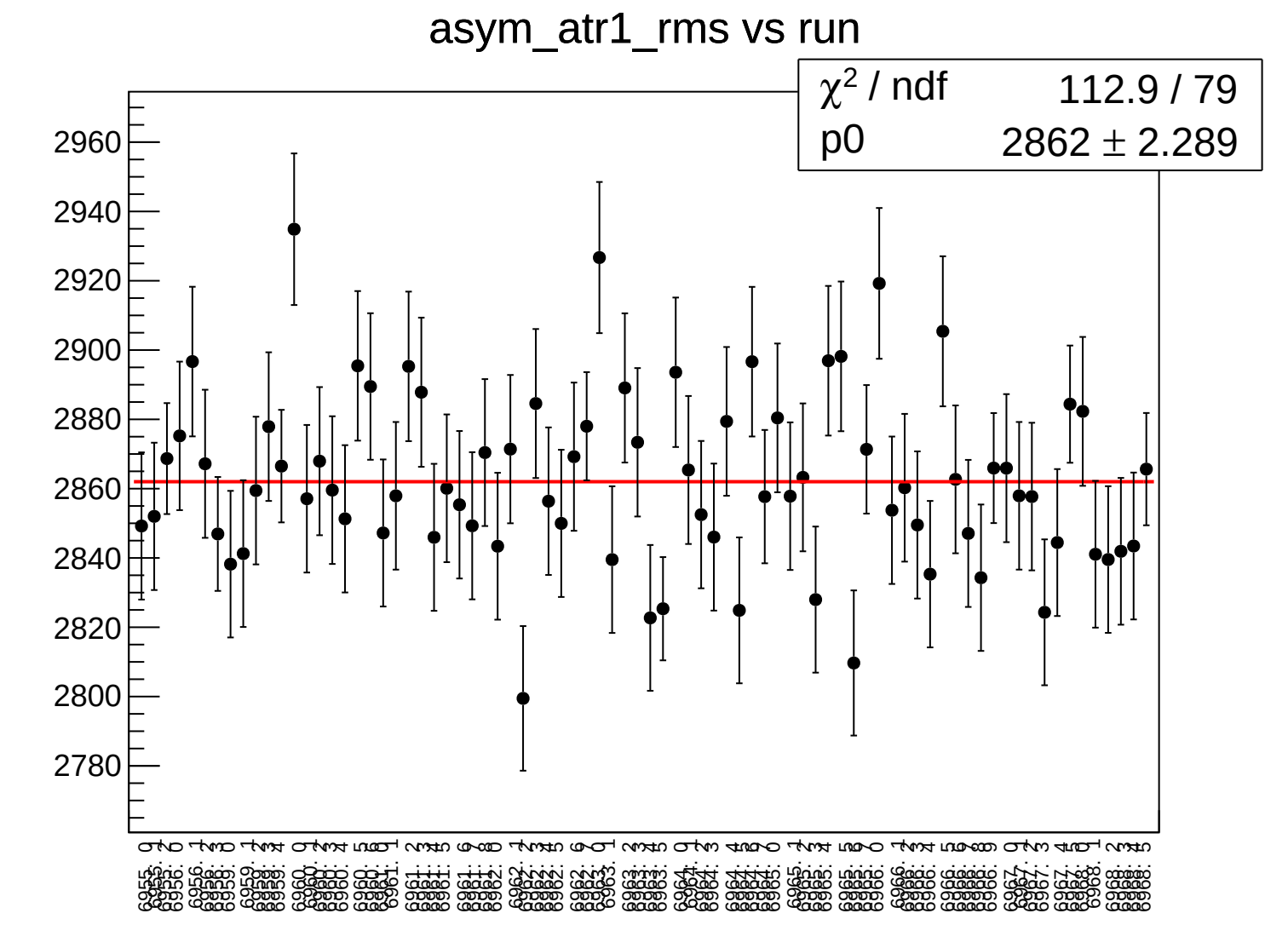

asym_atr1_correction_mean vs run
χ² / ndf 82.61 / 79
p0 −555.2 ± 959.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 80
Mean 71.88
Std Dev 48.12
2
1
0
−1
−2

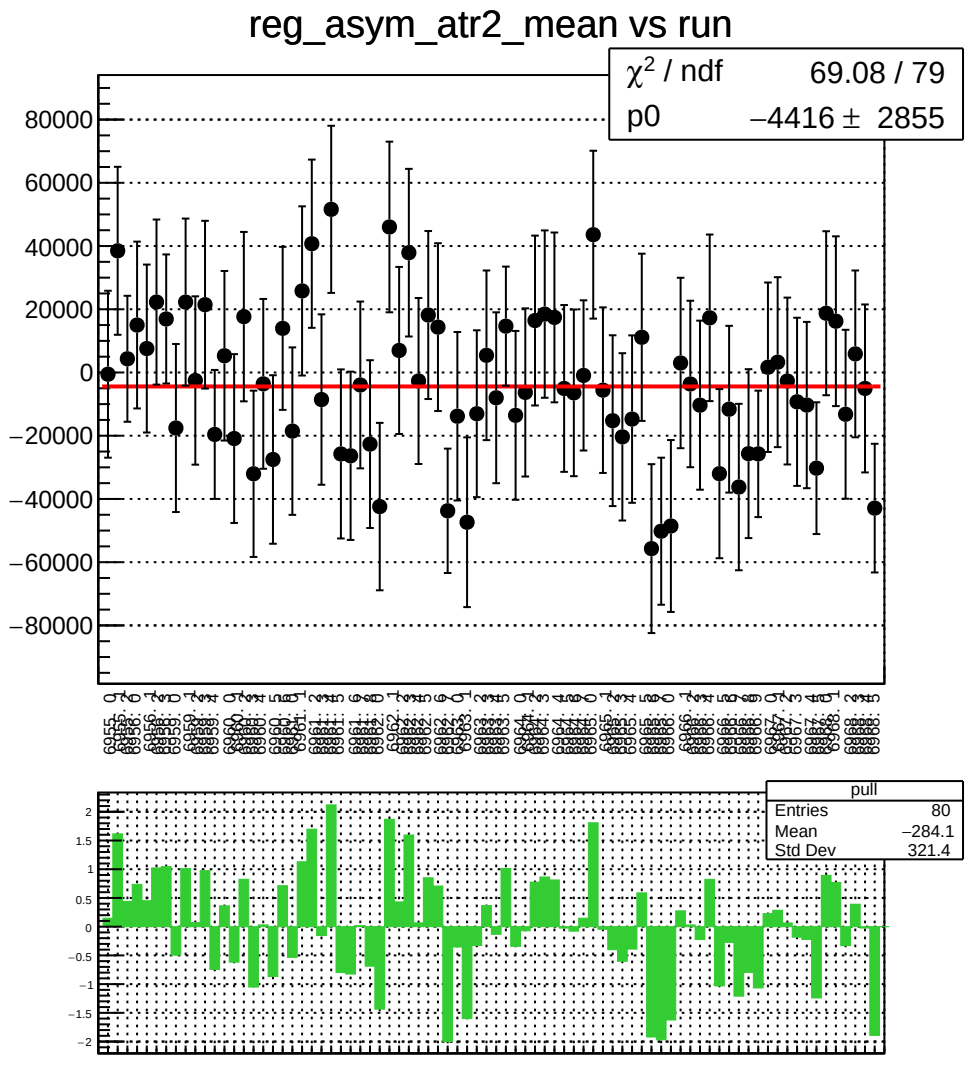

pull1D
Entries 80
Mean −0.01509
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

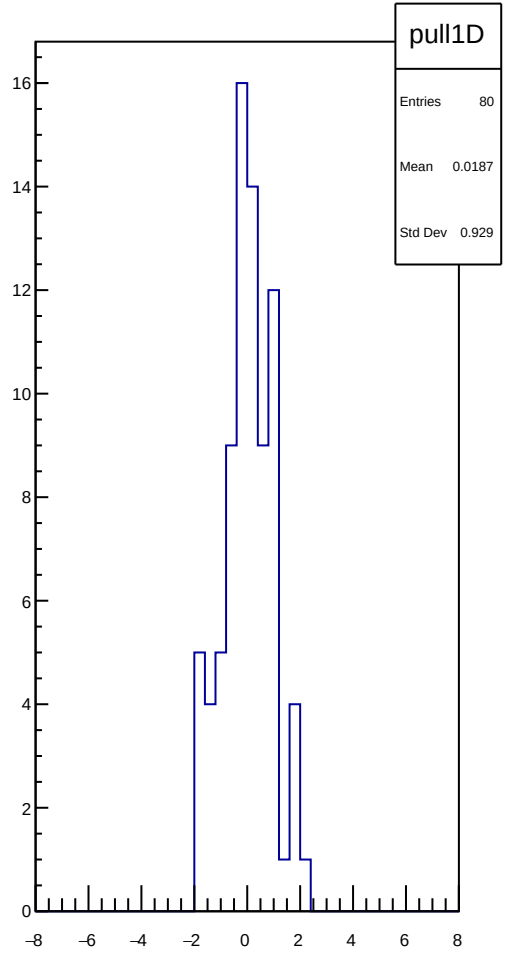

asym_atr1_correction_rms vs run
χ² / ndf 6102 / 79
p0 846.2 ± 0.6782
1050
1000
950
900
850
800
750

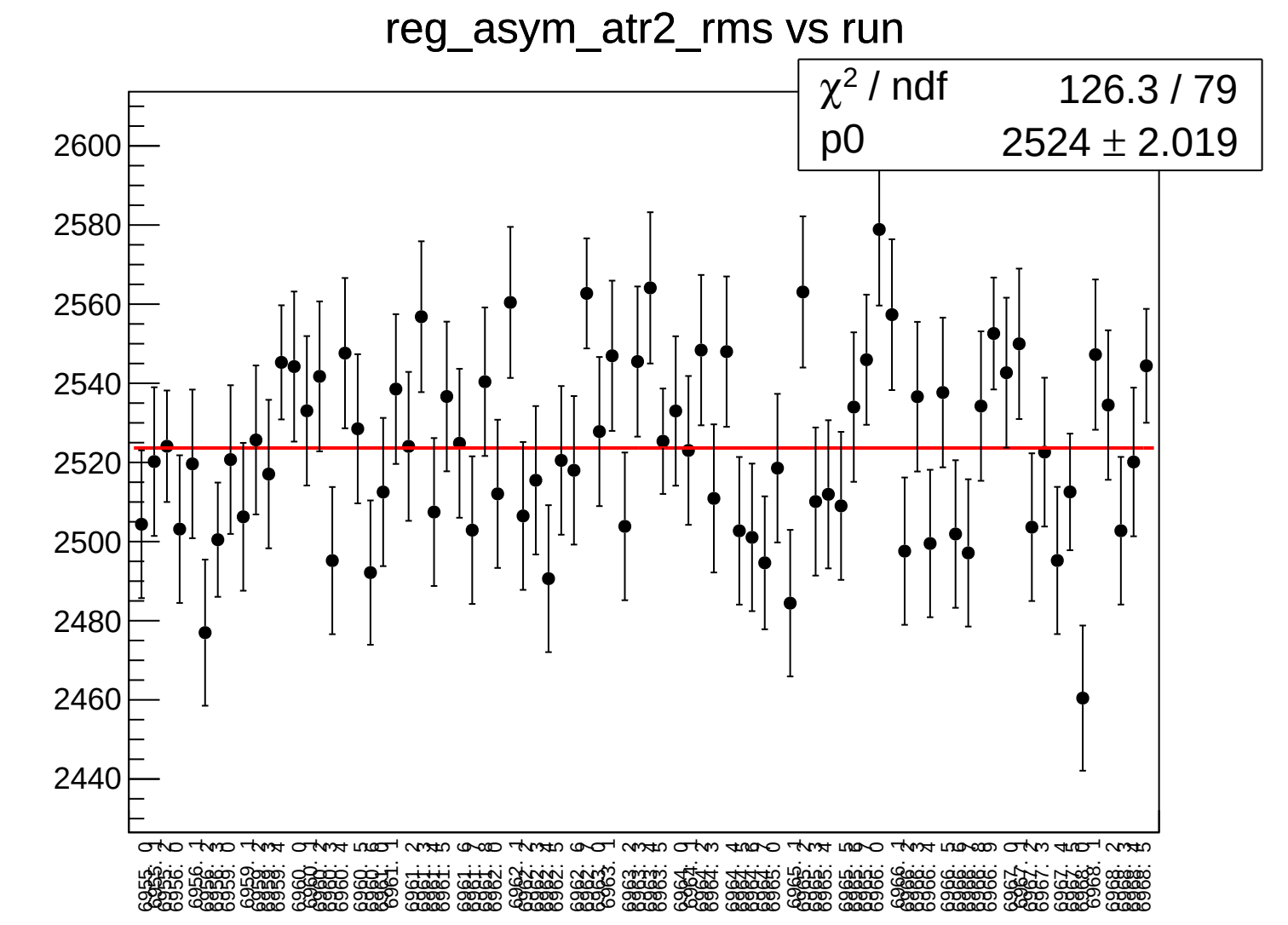

asym_atr1_mean vs run
×10^3
χ² / ndf 60.17 / 79
p0 −1935 ± 3237
100
50
0
−50
−100
pull
Entries 80
Mean −591.8
Std Dev 622.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

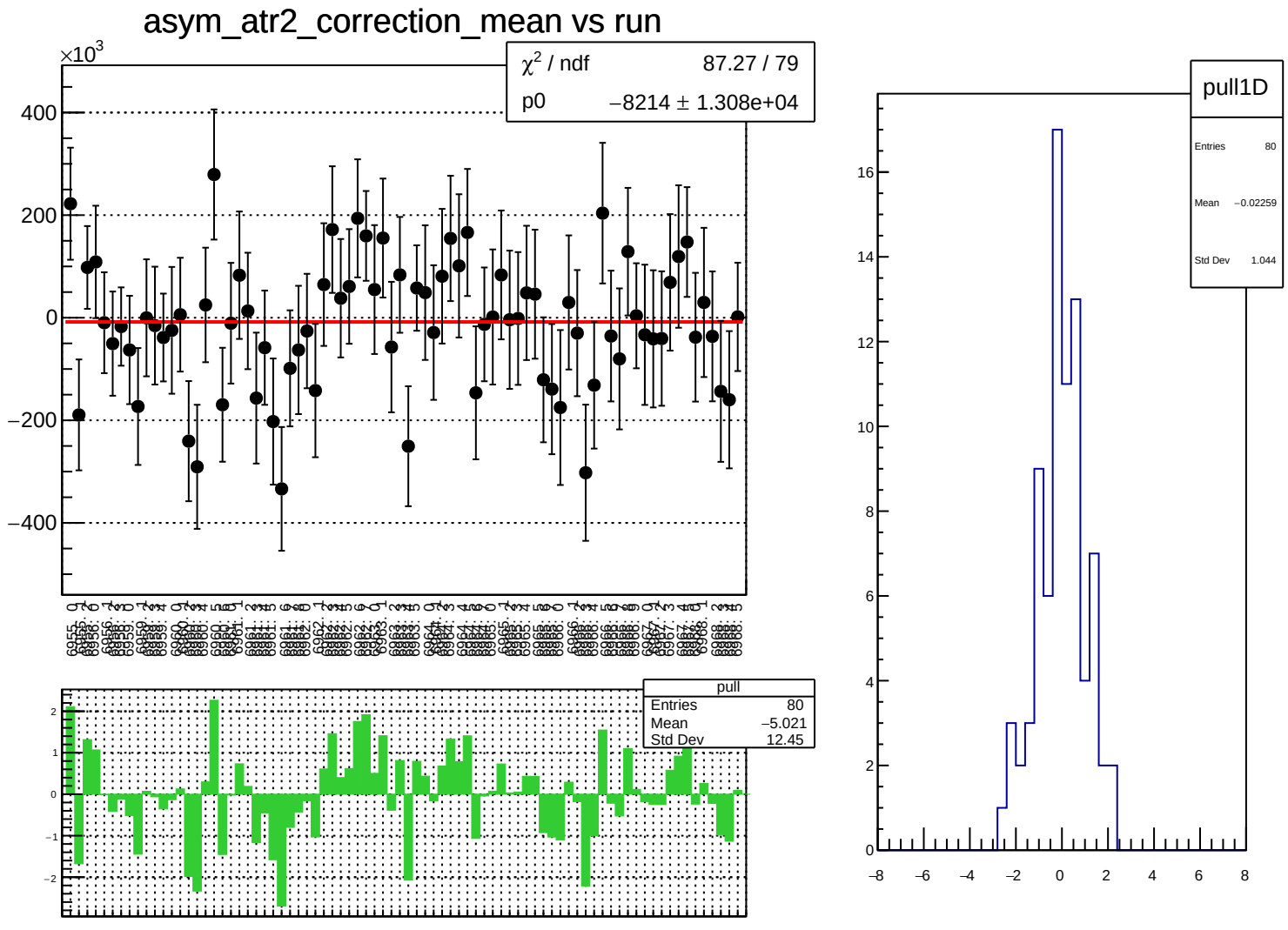

pull1D
Entries 80
Mean 0.006485
Std Dev 0.8672
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_rms vs run
χ^2 / ndf 112.9 / 79
p0 2862 ± 2.289
2960
2940
2920
2900
2880
2860
2840
2820
2800
2780

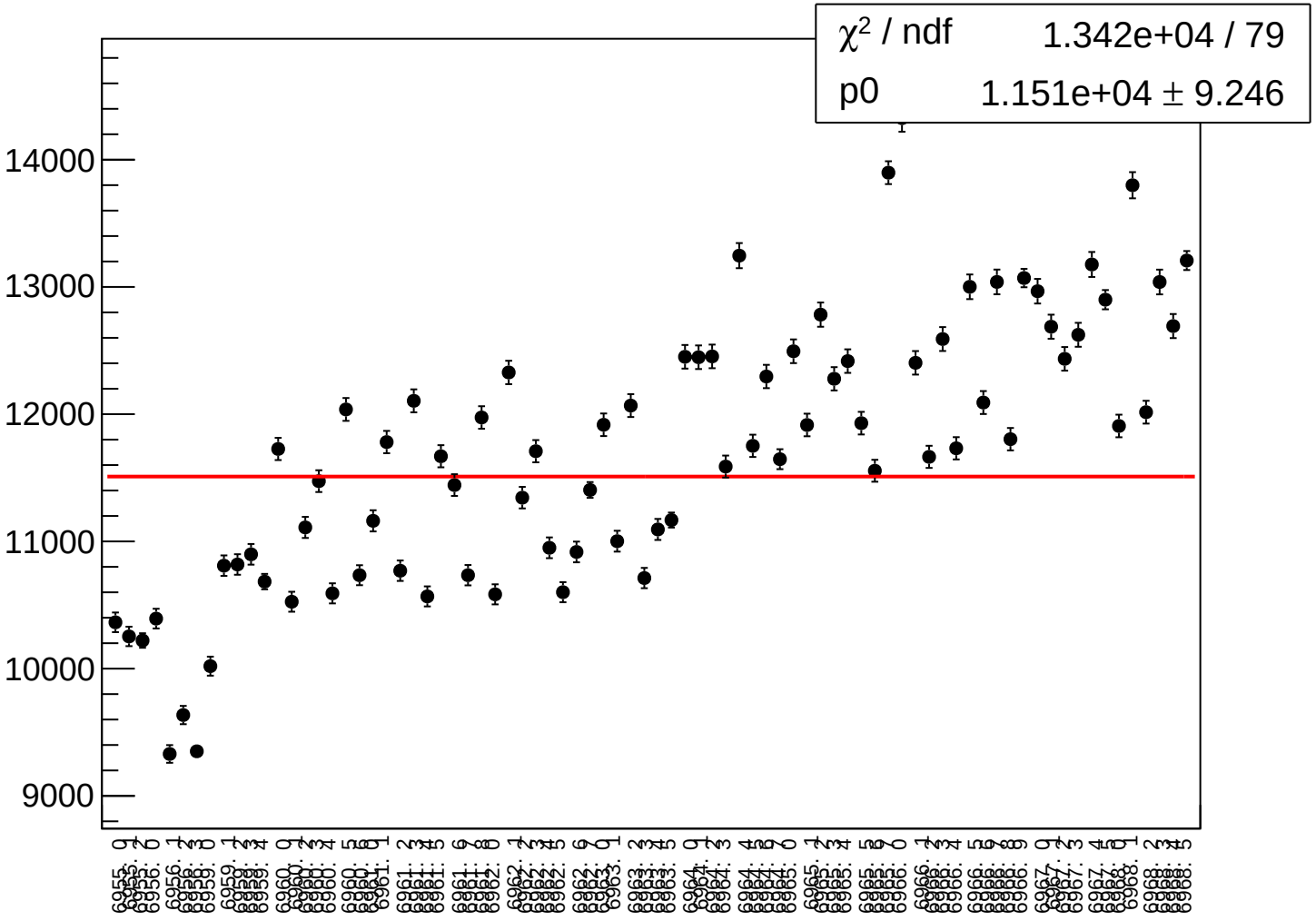

reg_asym_atr2_mean vs run
χ^2 / ndf 69.08 / 79
p0 −4416 ± 2855
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 80
Mean −284.1
Std Dev 321.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

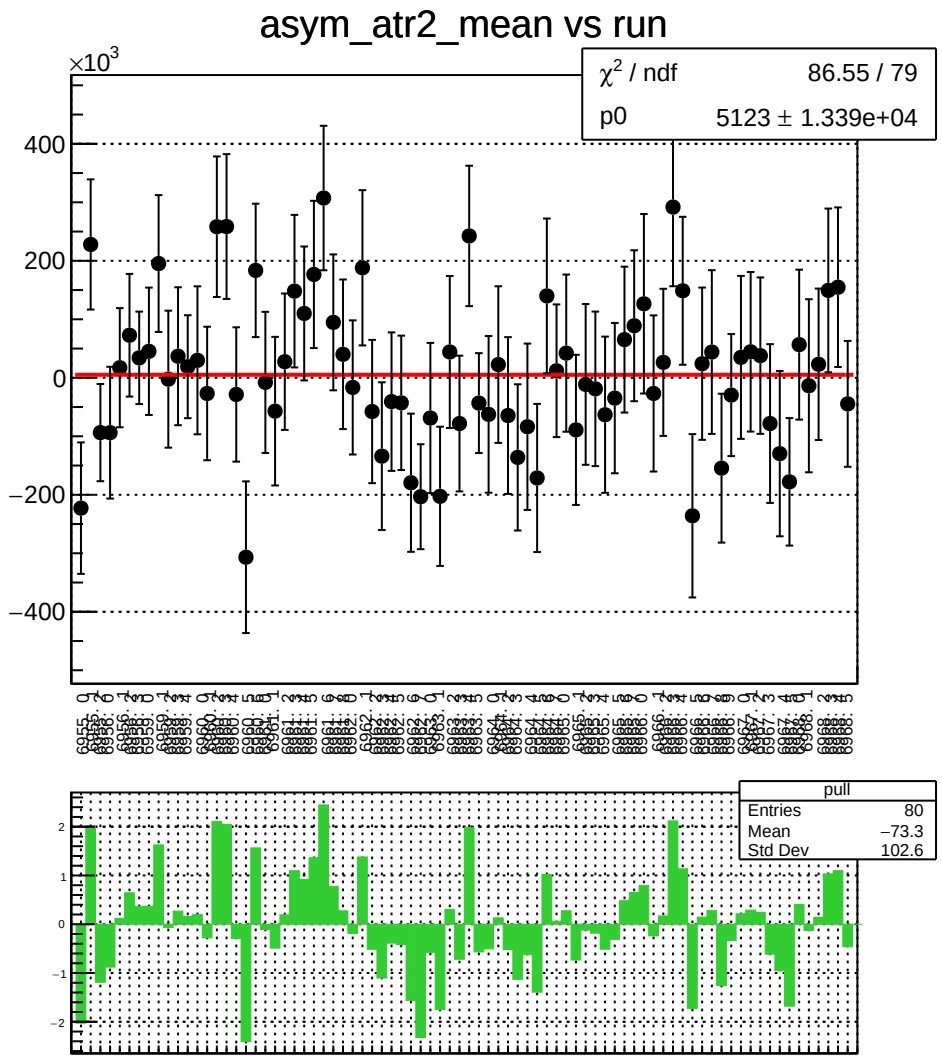

pull1D
Entries 80
Mean 0.0187
Std Dev 0.929
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

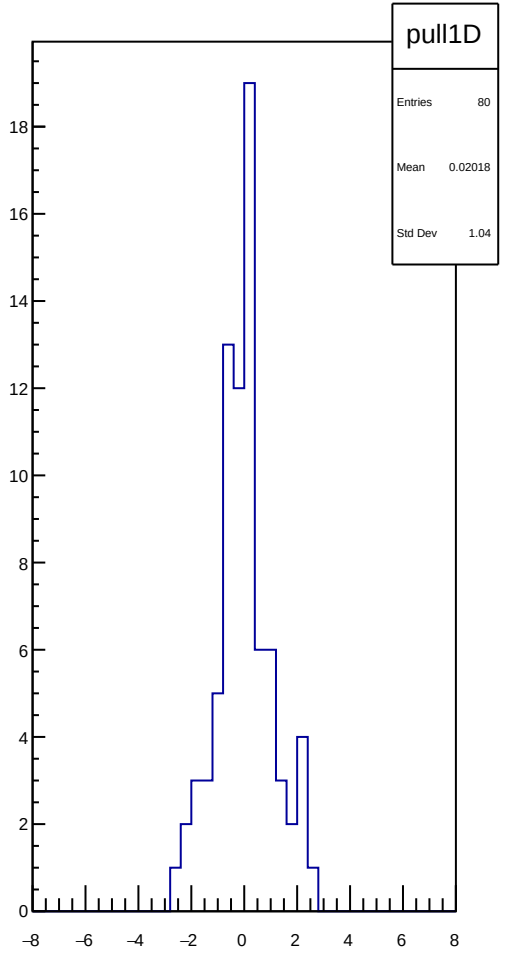

reg_asym_atr2_rms vs run
χ^2 / ndf 126.3 / 79
p0 2524 ± 2.019
2600
2580
2560
2540
2520
2500
2480
2460
2440

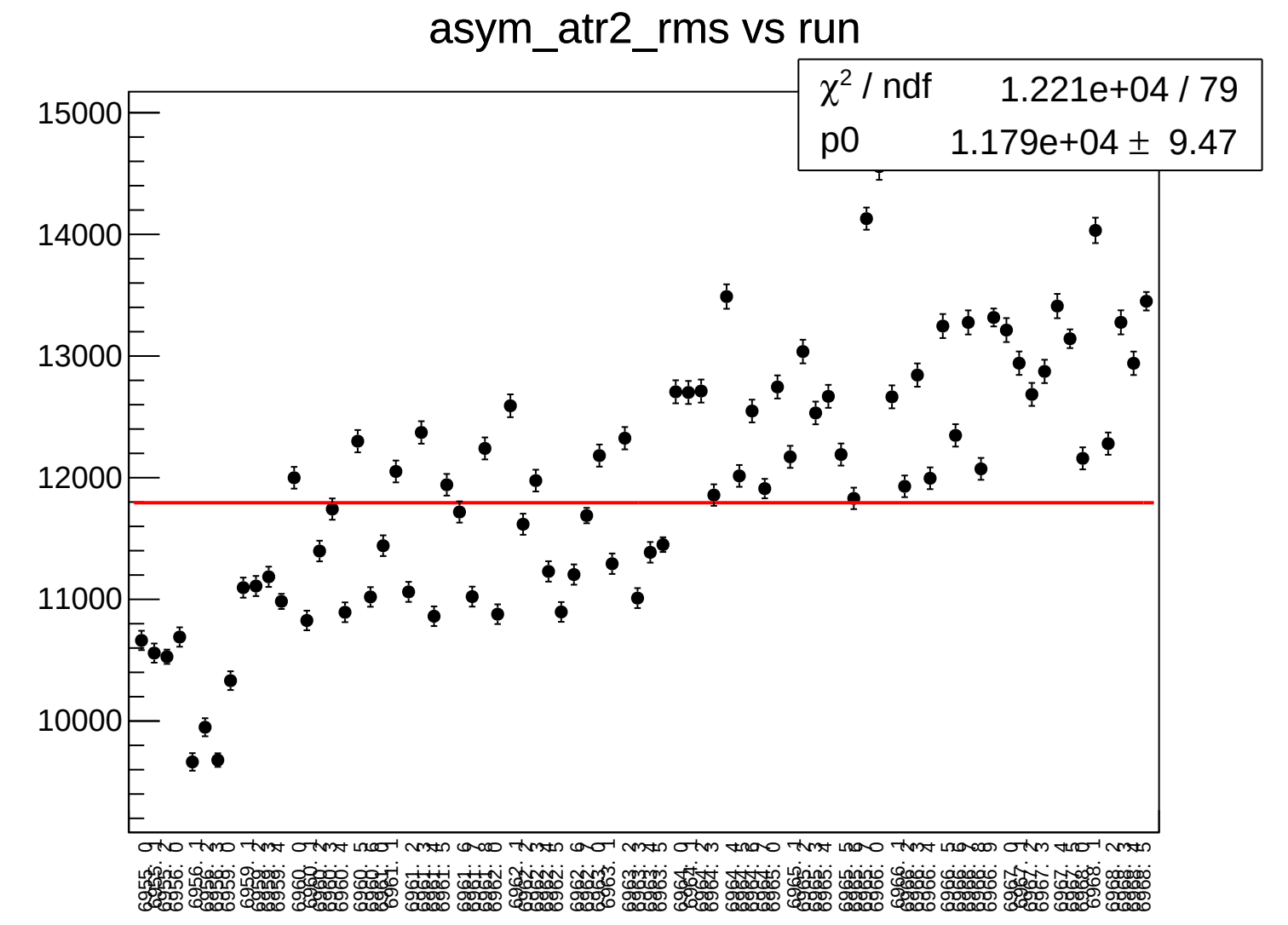

asym_atr2_correction_mean vs run
×10^3
400
200
0
−200
−400
χ² / ndf 87.27 / 79
p0 −8214 ± 1.308e+04
pull
Entries 80
Mean −5.021
Std Dev 12.45
2
1
0
−1
−2
pull1D
Entries 80
Mean −0.02259
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

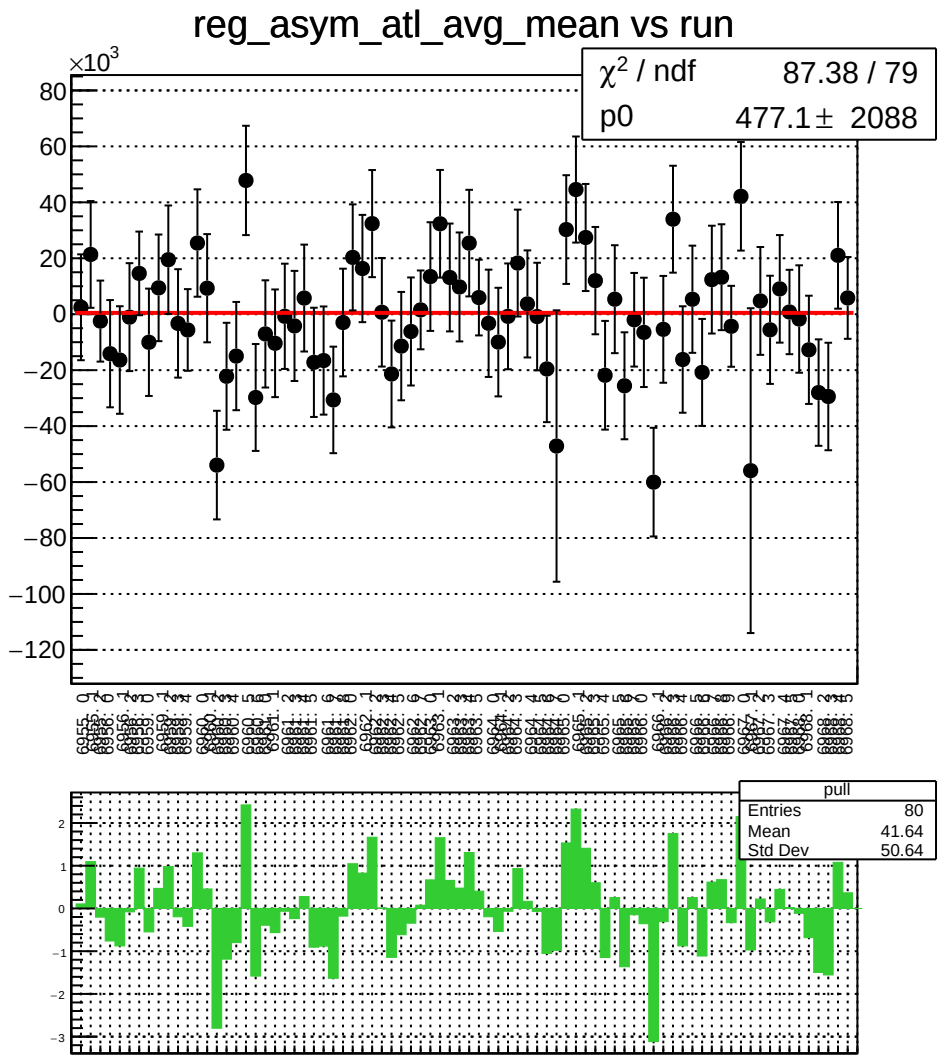
asym_atr2_correction_rms vs run

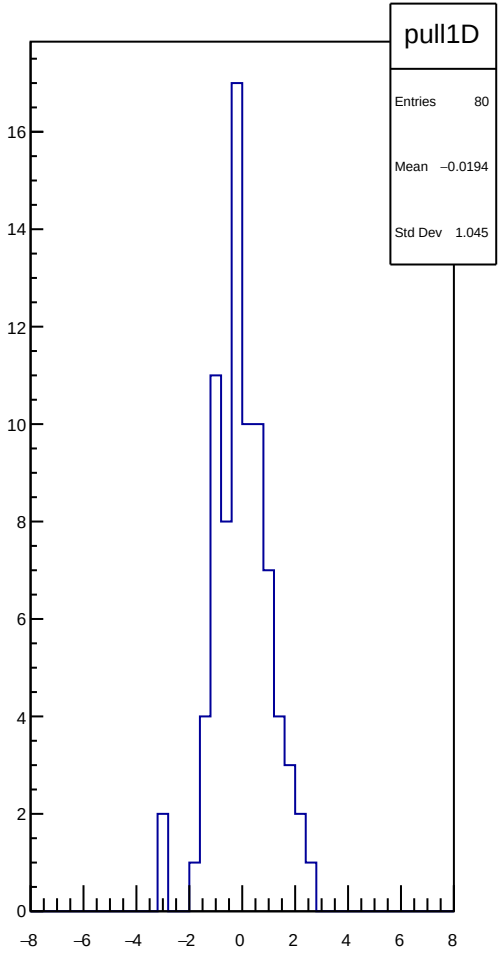


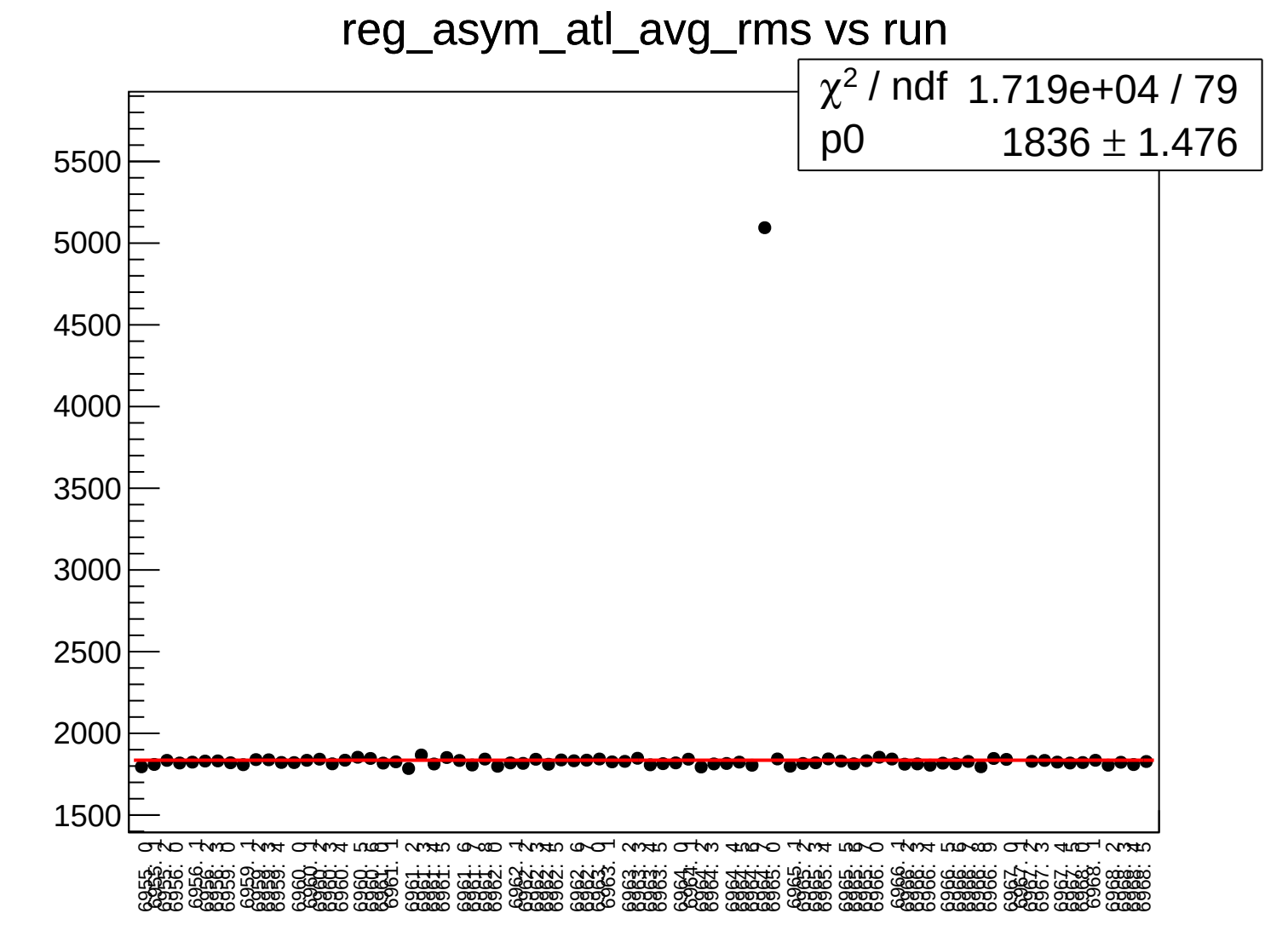

asym_atr2_mean vs run
×10^3
χ² / ndf 86.55 / 79
p0 5123 ± 1.339e+04
400
200
0
−200
−400
pull
Entries 80
Mean −73.3
Std Dev 102.6
2
1
0
−1
−2

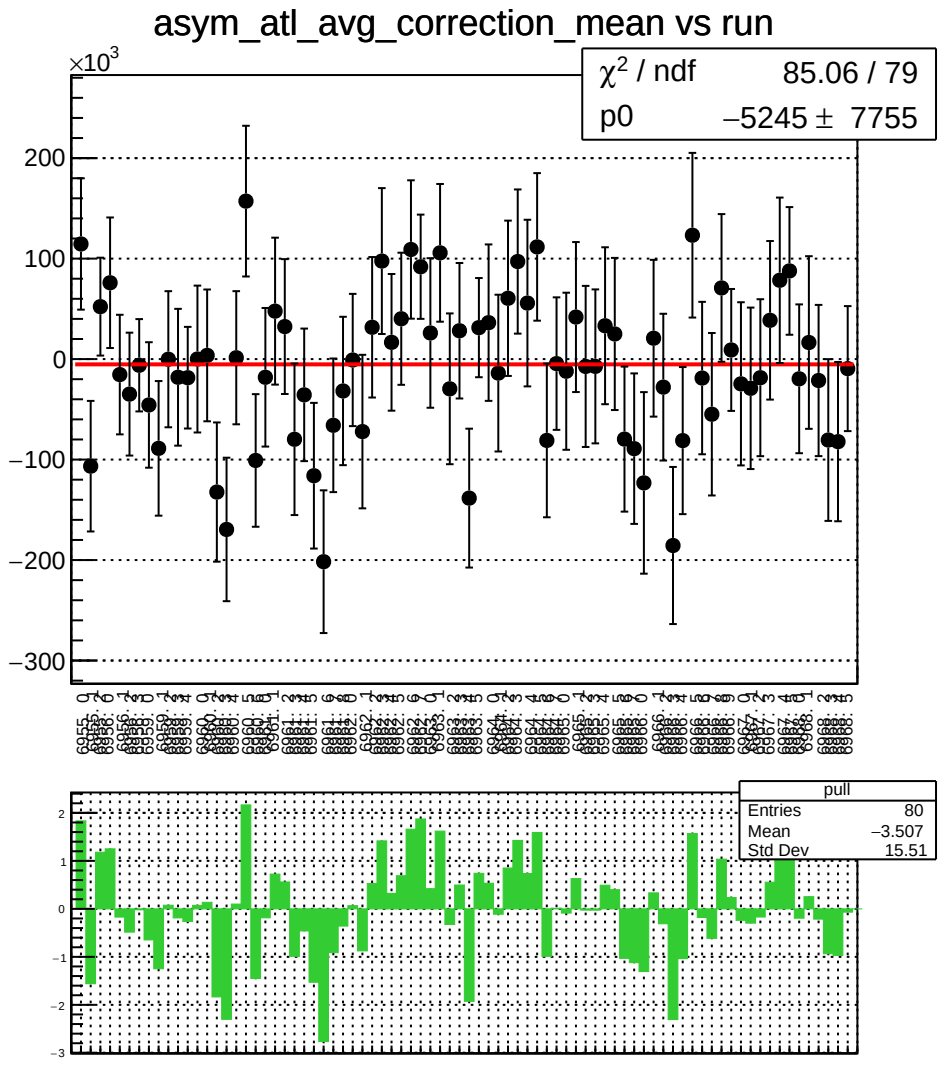

pull1D
Entries 80
Mean 0.02018
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

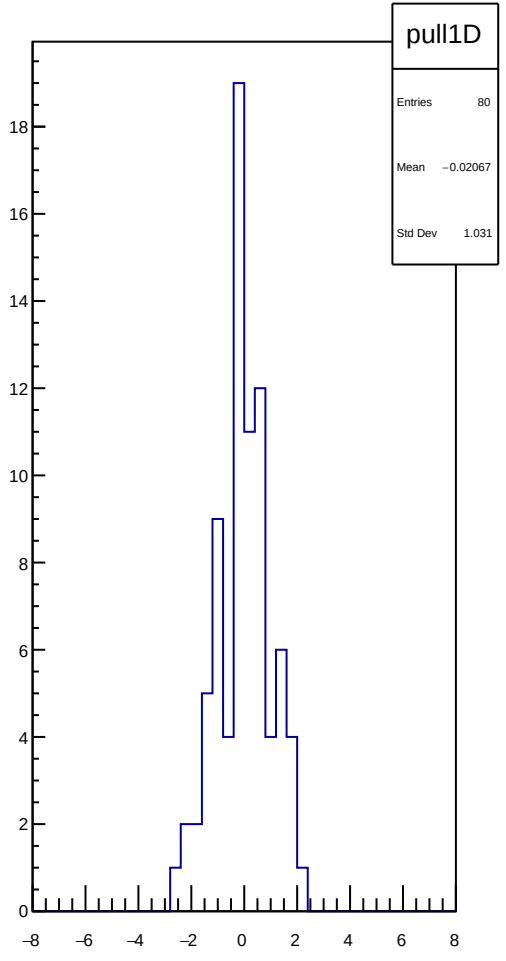

asym_atr2_rms vs run
χ^2 / ndf 1.221e+04 / 79
p0 1.179e+04 ± 9.47
15000
14000
13000
12000
11000
10000

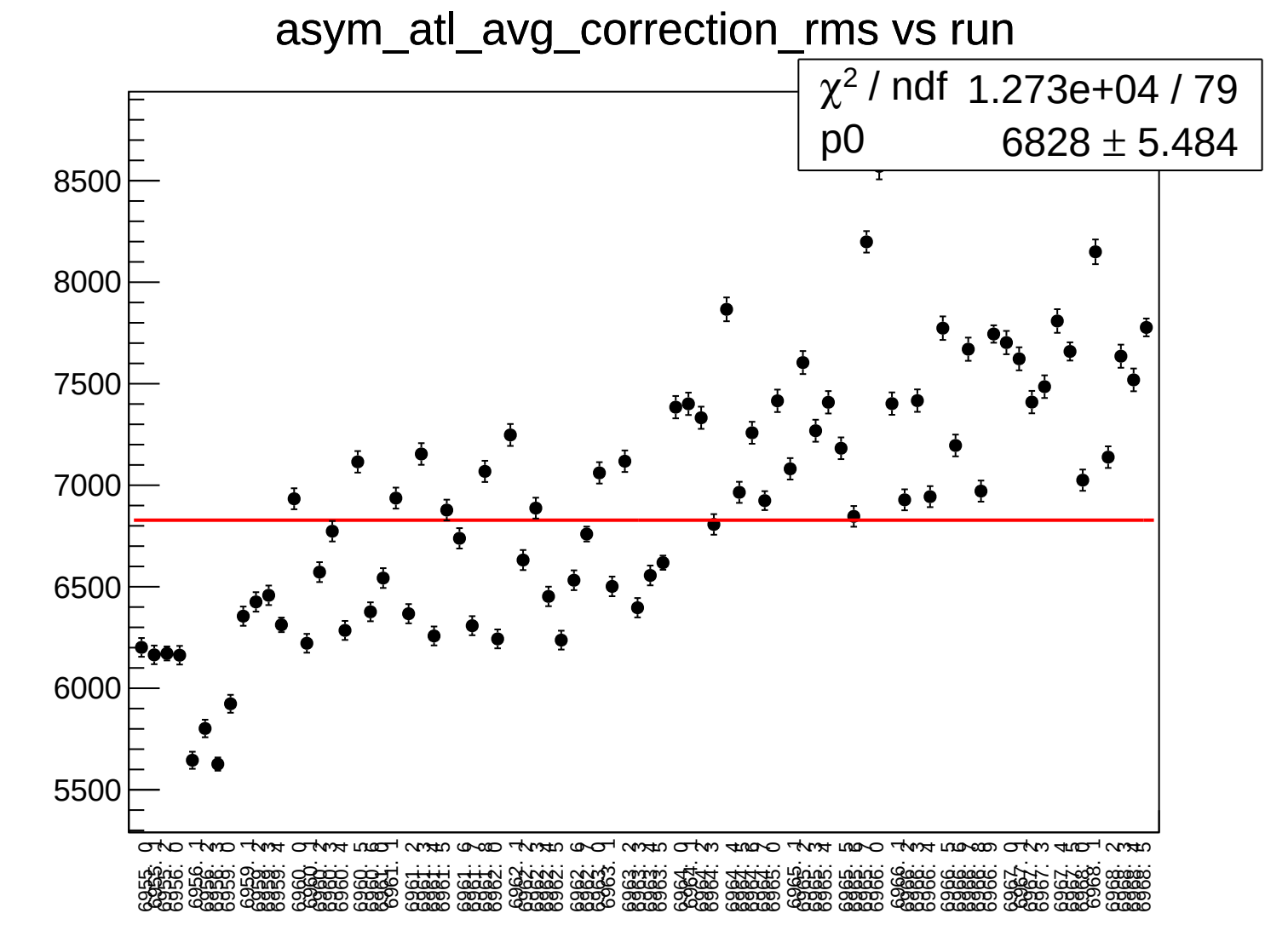

reg_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 87.38 / 79
p0 477.1± 2088
pull
Entries 80
Mean 41.64
Std Dev 50.64

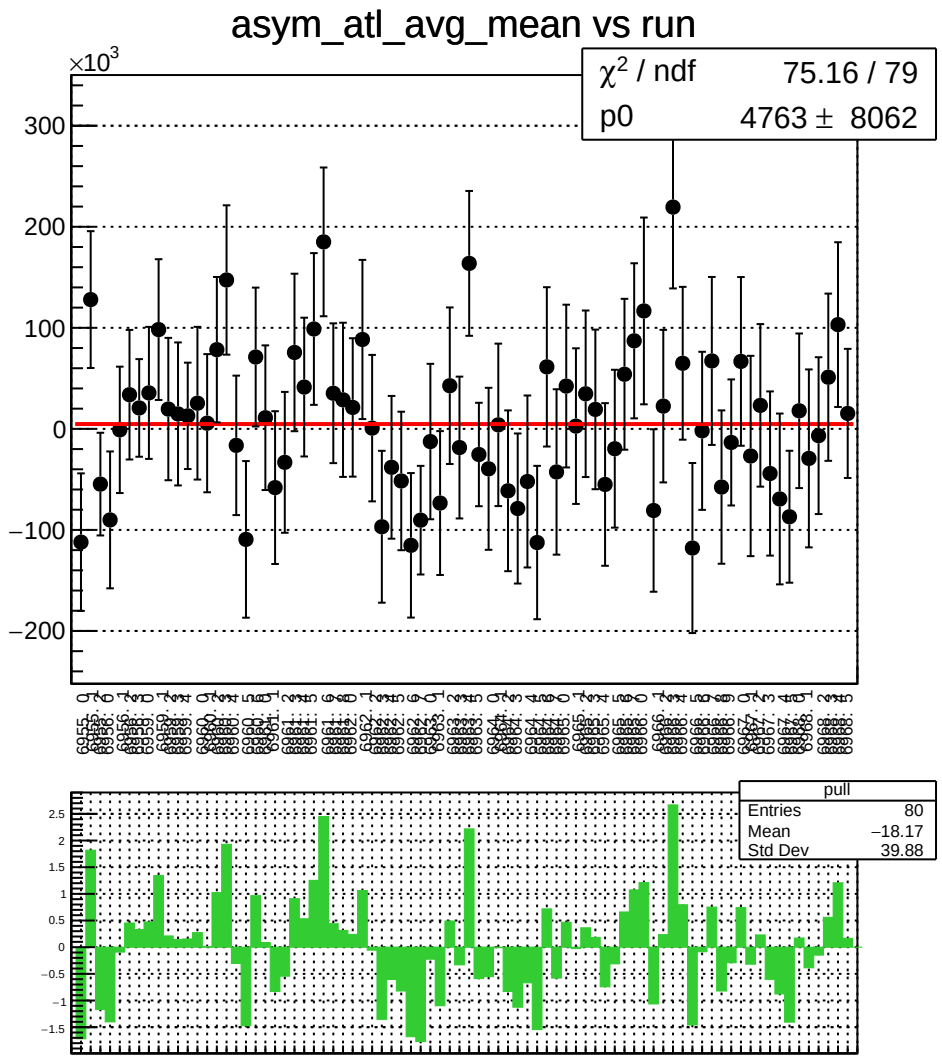

pull1D
Entries 80
Mean −0.0194
Std Dev 1.045

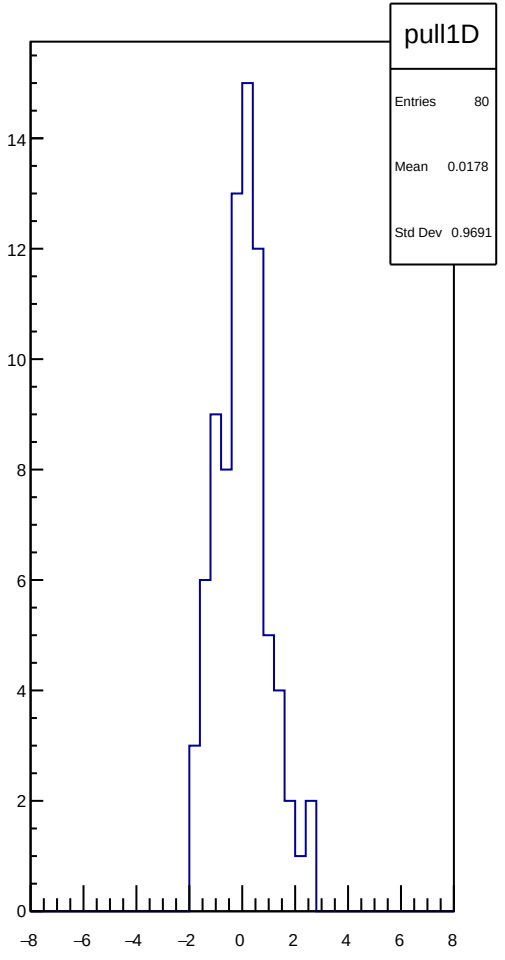

reg_asym_atl_avg_rms vs run
χ^2 / ndf 1.719e+04 / 79
p0 1836 ± 1.476
5500
5000
4500
4000
3500
3000
2500
2000
1500

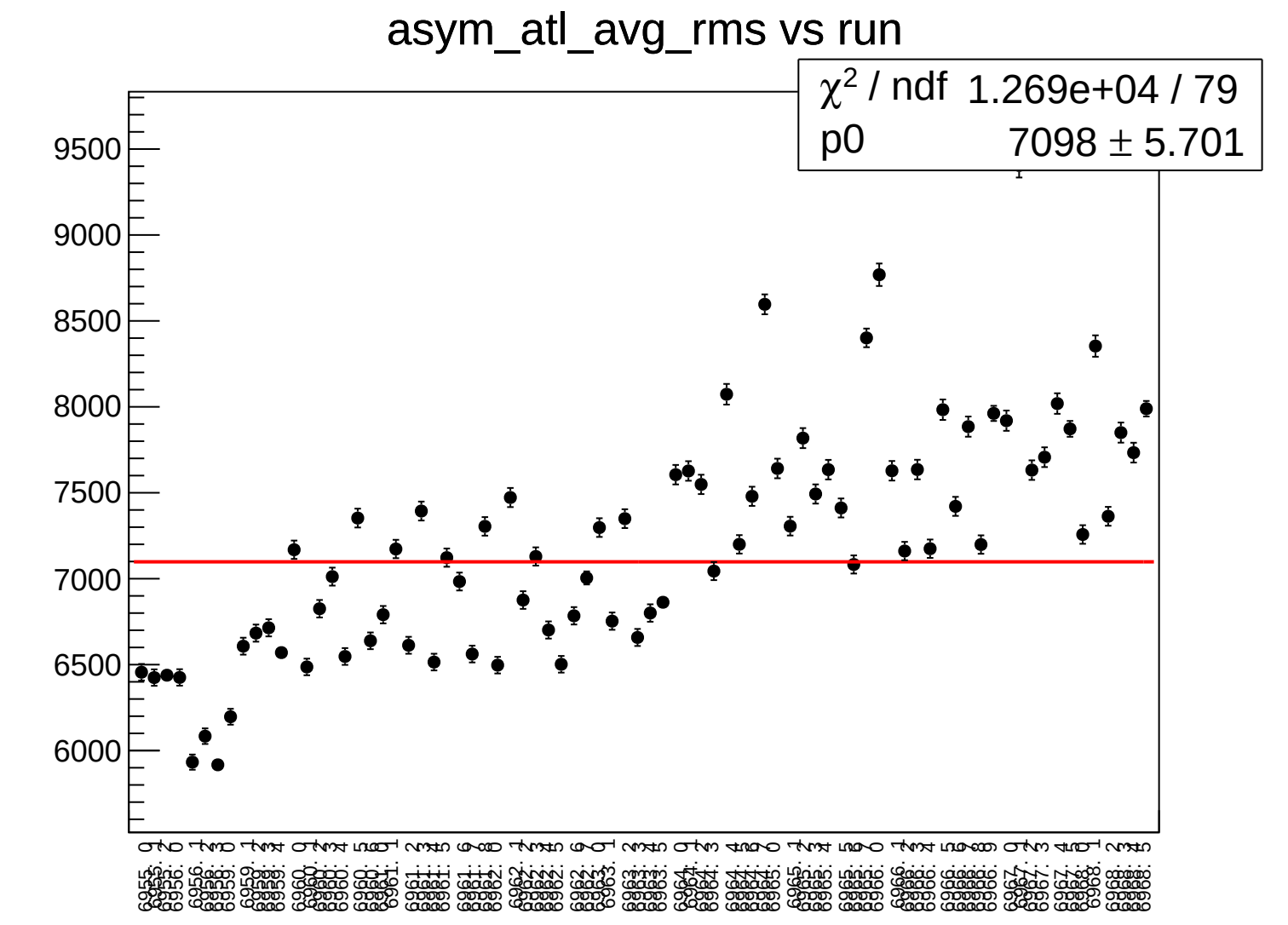

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 85.06 / 79
p0 −5245 ± 7755
200
100
0
−100
−200
−300
pull
Entries 80
Mean −3.507
Std Dev 15.51
2
1
0
−1
−2
−3

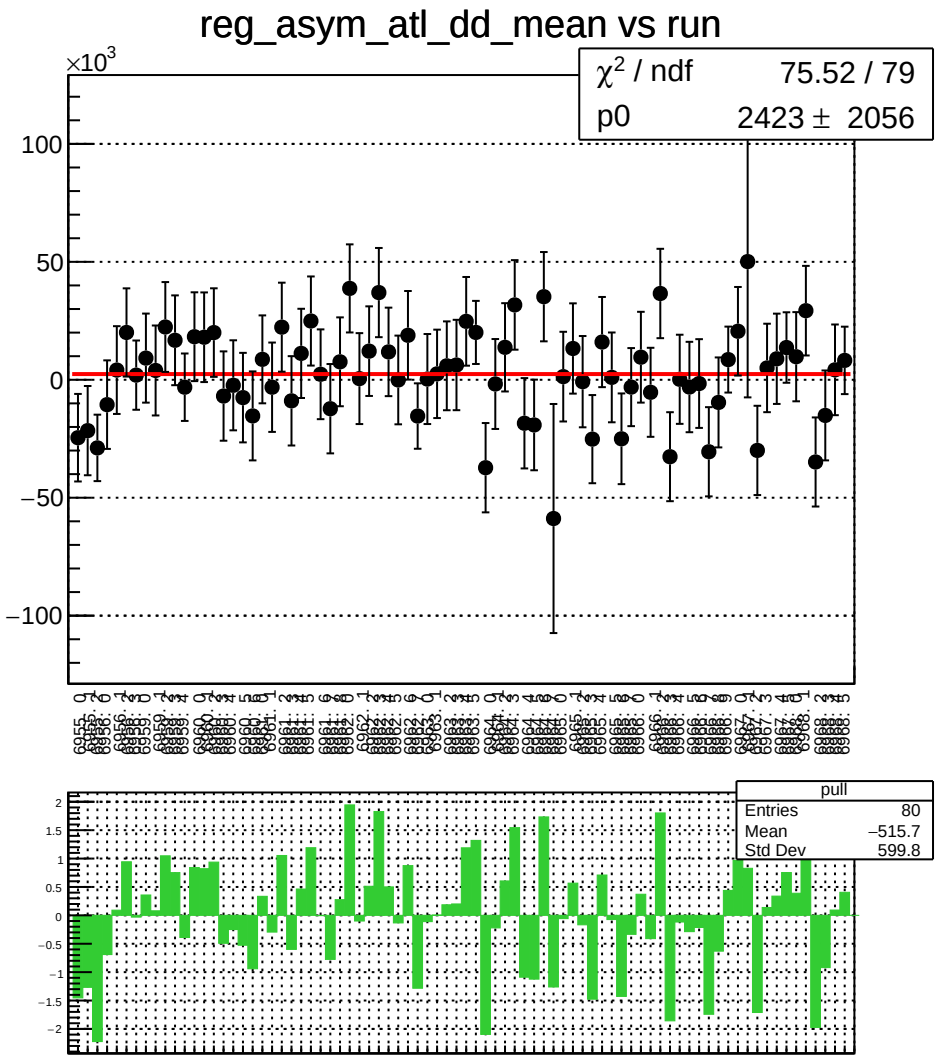

pull1D
Entries 80
Mean −0.02067
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

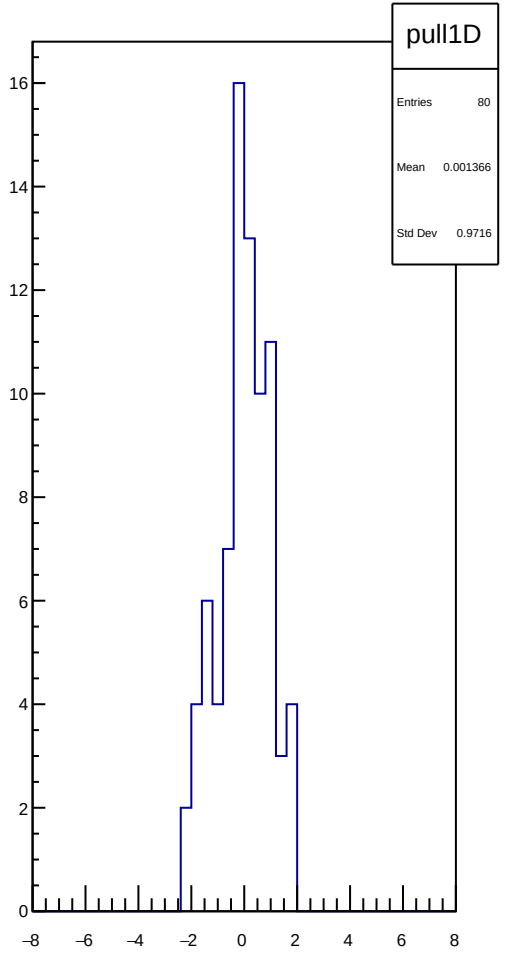

asym_atl_avg_correction_rms vs run
χ² / ndf 1.273e+04 / 79
p0 6828 ± 5.484
8500
8000
7500
7000
6500
6000
5500

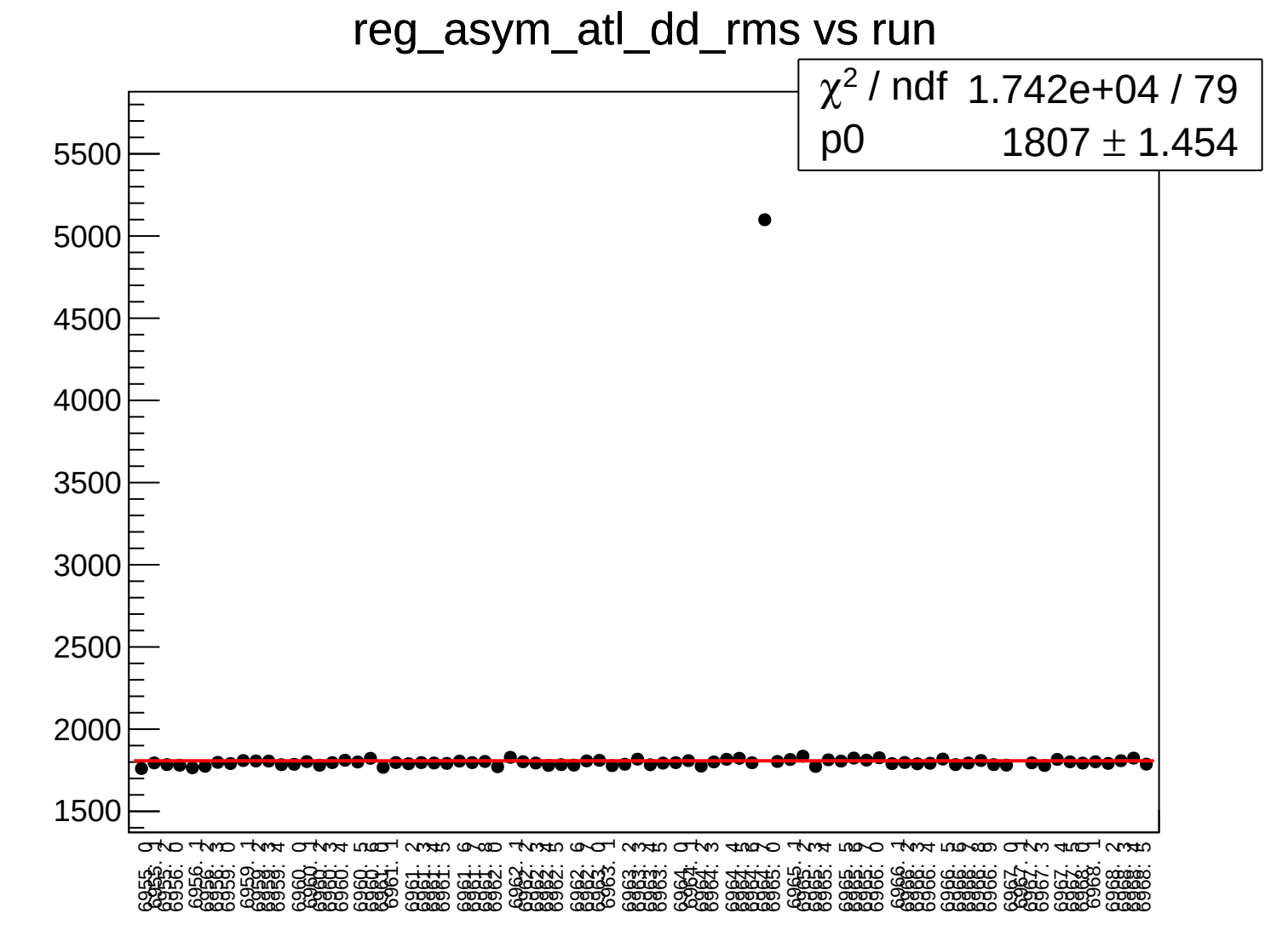

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 75.16 / 79
p0 4763 ± 8062
300
200
100
0
−100
−200
pull
Entries 80
Mean −18.17
Std Dev 39.88
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

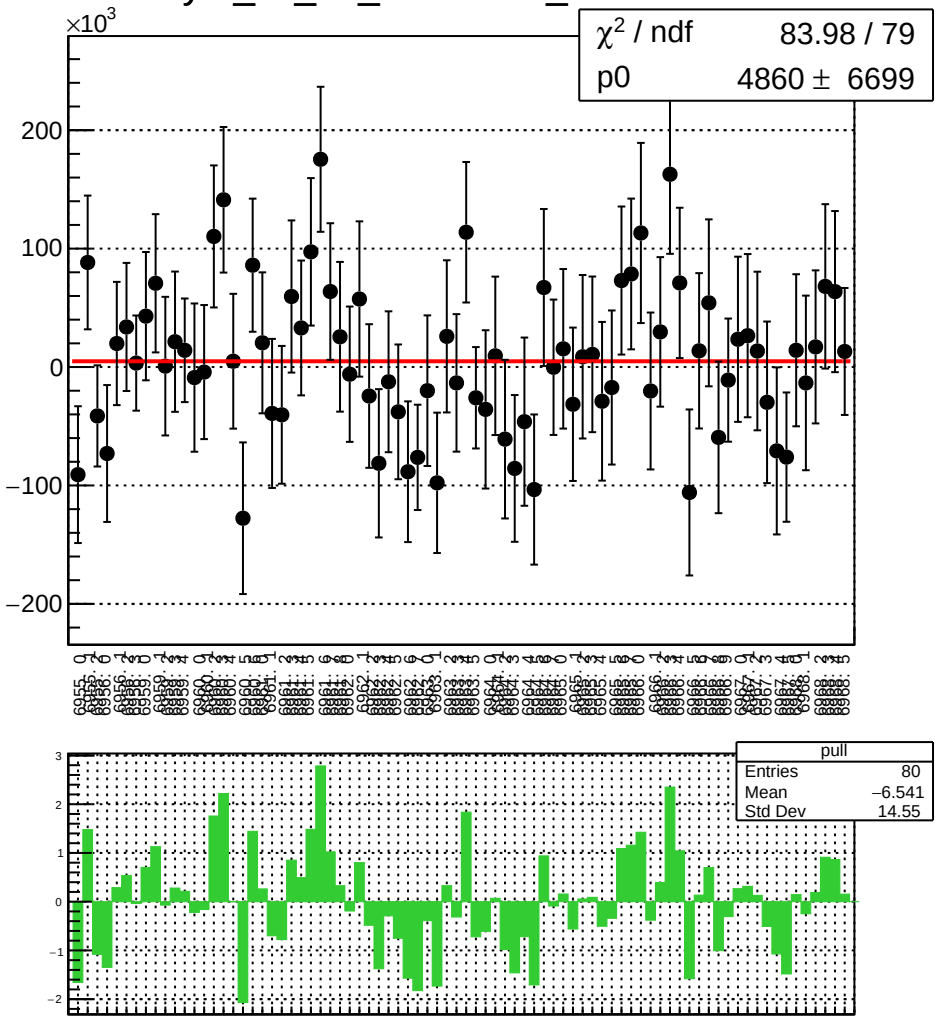

pull1D
Entries 80
Mean 0.0178
Std Dev 0.9691
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

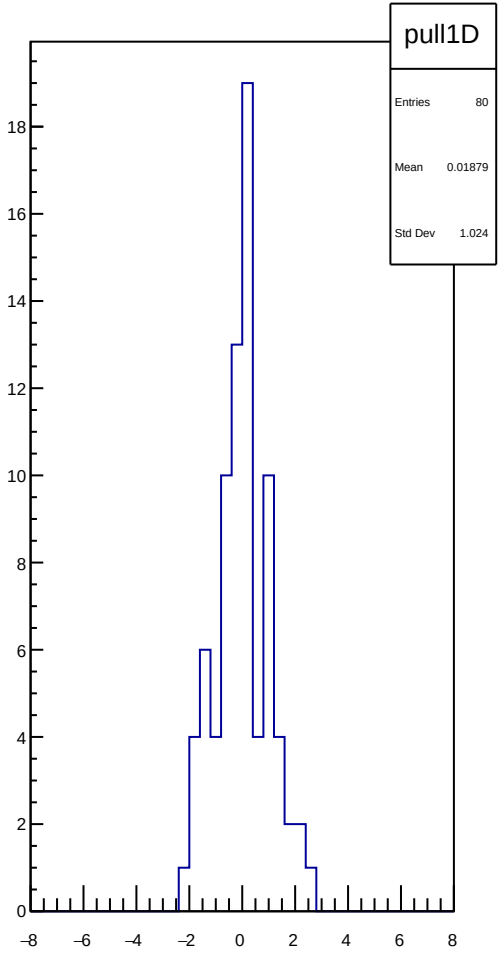

asym_atl_avg_rms vs run
χ² / ndf 1.269e+04 / 79
p0 7098 ± 5.701
9500
9000
8500
8000
7500
7000
6500
6000

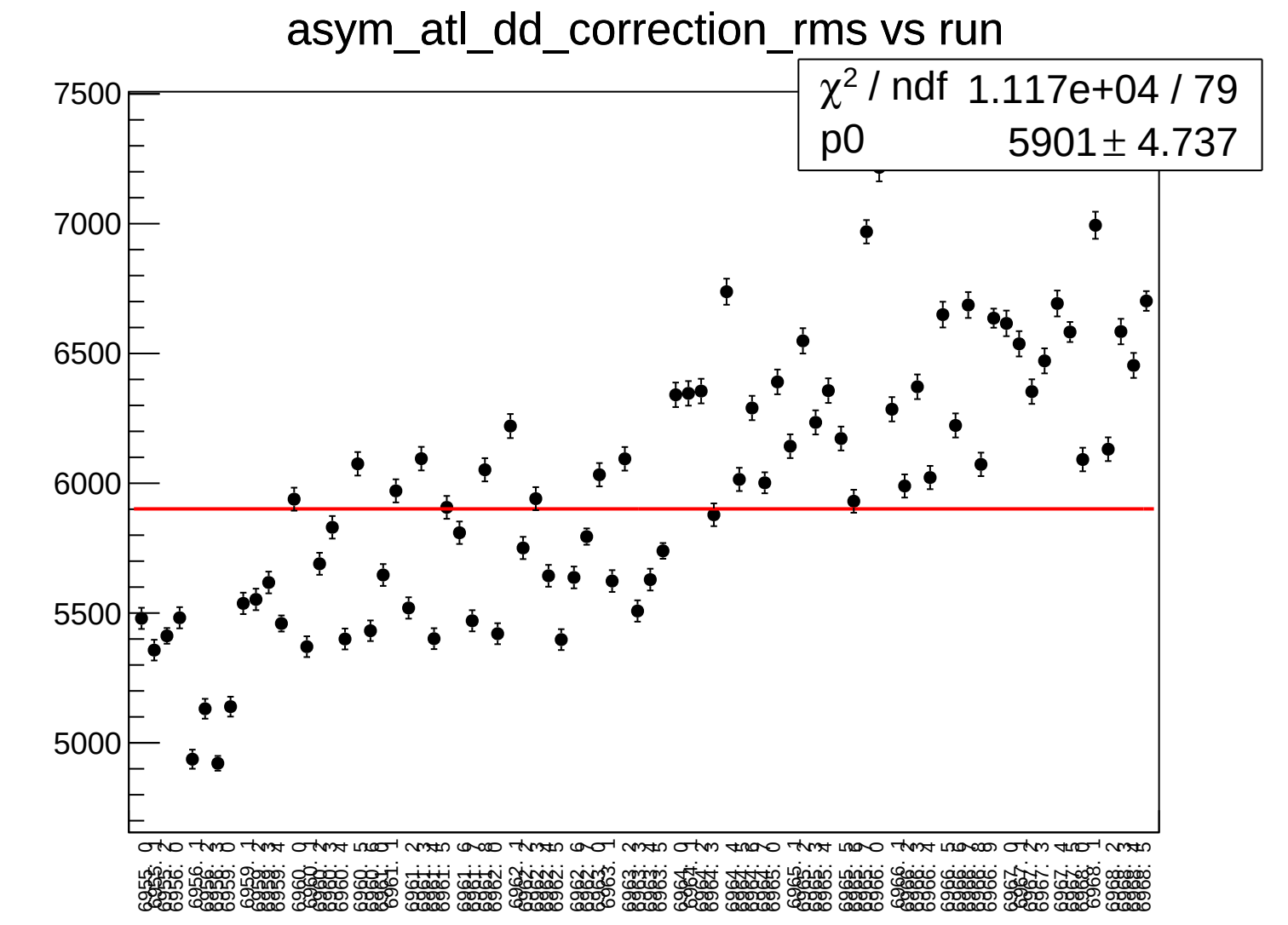

reg_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 75.52 / 79
p0 2423 ± 2056
100
50
0
−50
−100
pull
Entries 80
Mean −515.7
Std Dev 599.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

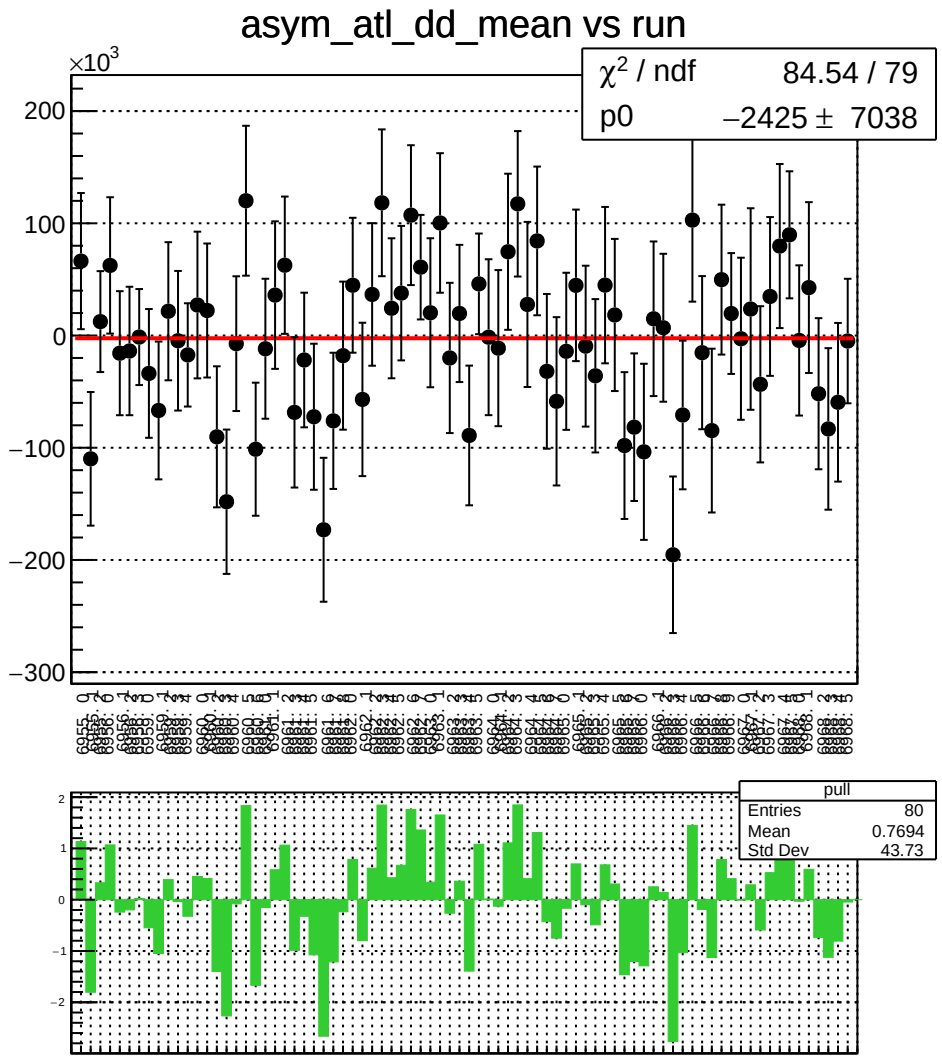

pull1D
Entries 80
Mean 0.001366
Std Dev 0.9716
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

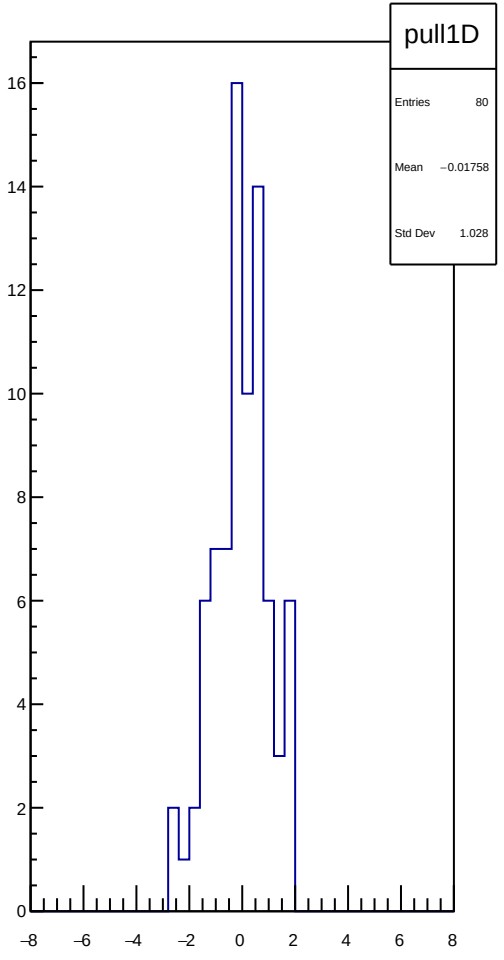

reg_asym_atl_dd_rms vs run
χ² / ndf 1.742e+04 / 79
p0 1807 ± 1.454
5500
5000
4500
4000
3500
3000
2500
2000
1500

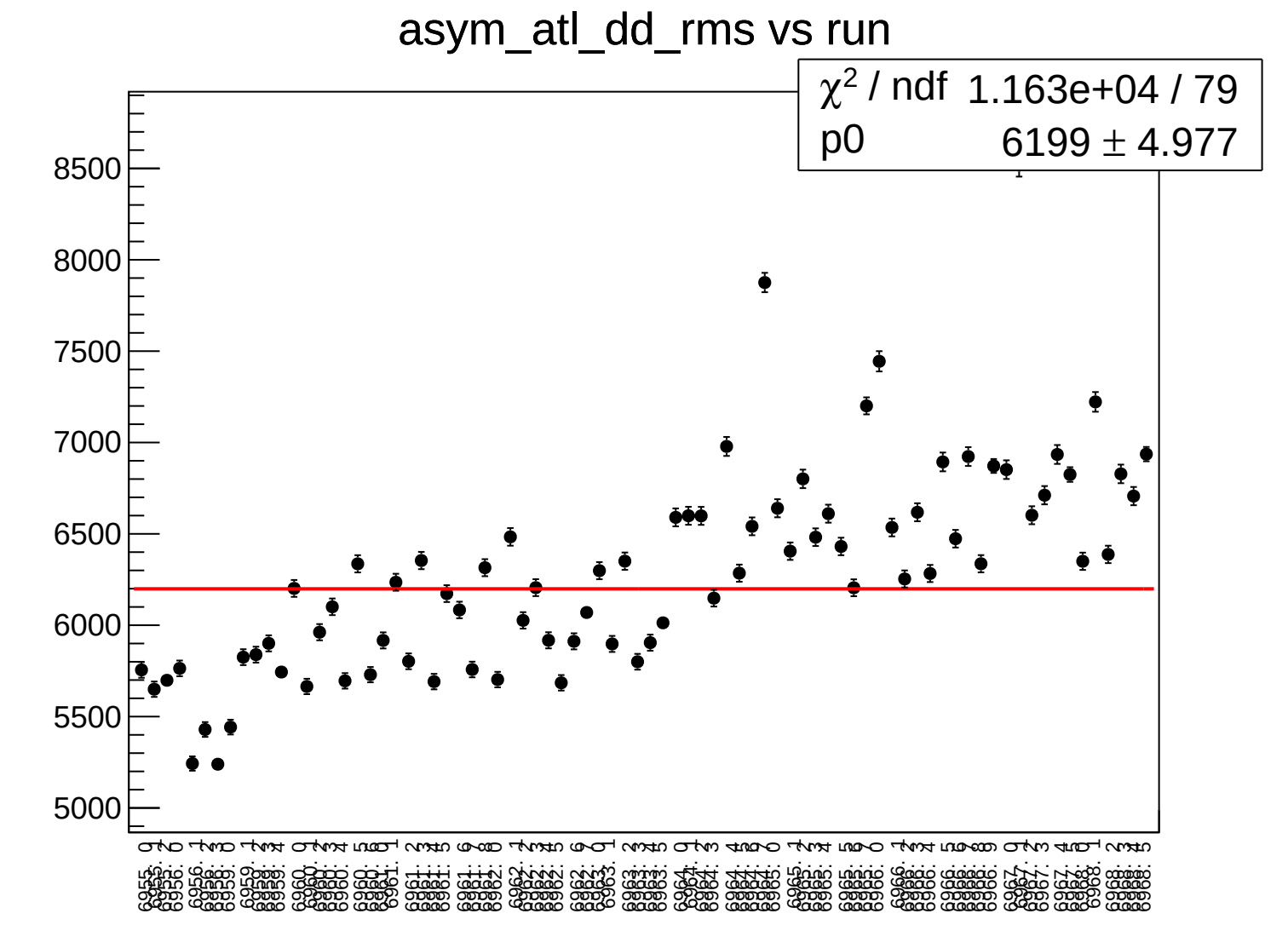

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 83.98 / 79
p0 4860 ± 6699
200
100
0
−100
−200
pull
Entries 80
Mean −6.541
Std Dev 14.55
3
2
1
0
−1
−2

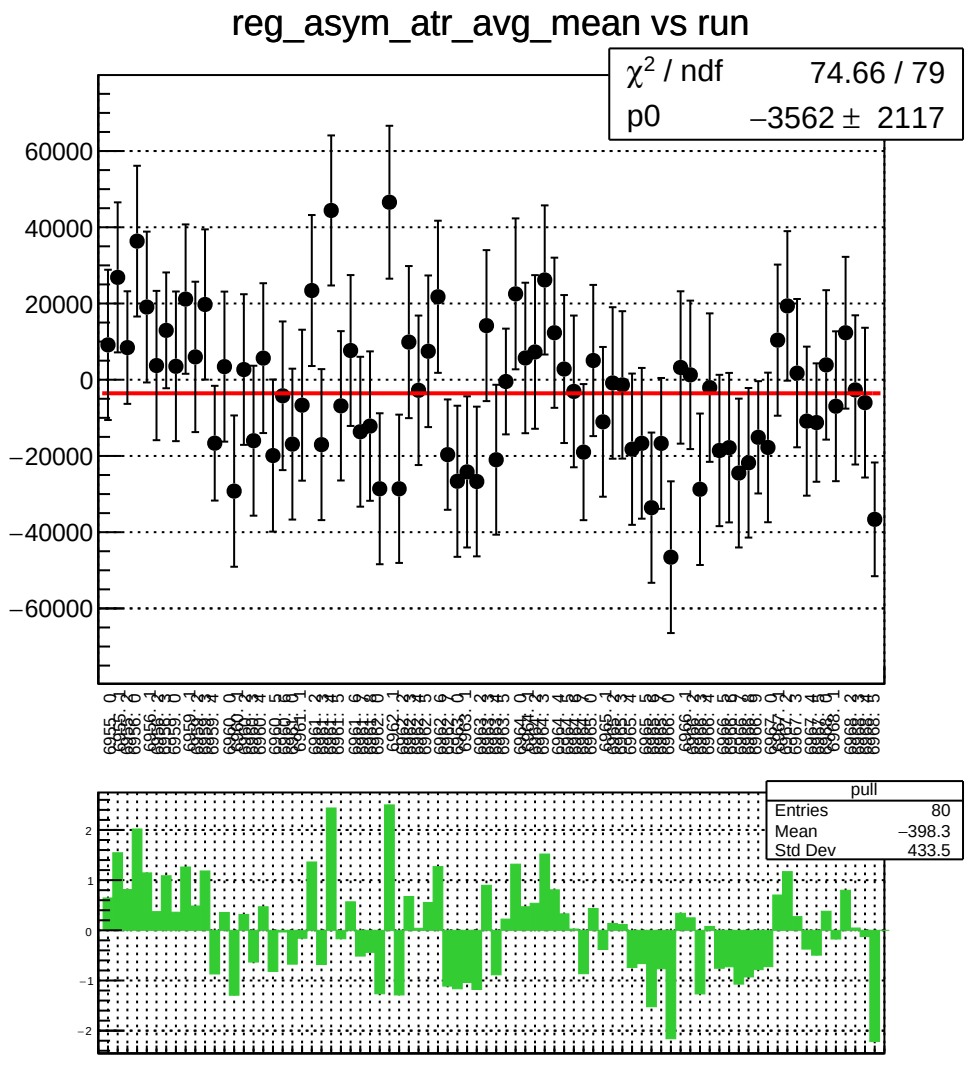

pull1D
Entries 80
Mean 0.01879
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

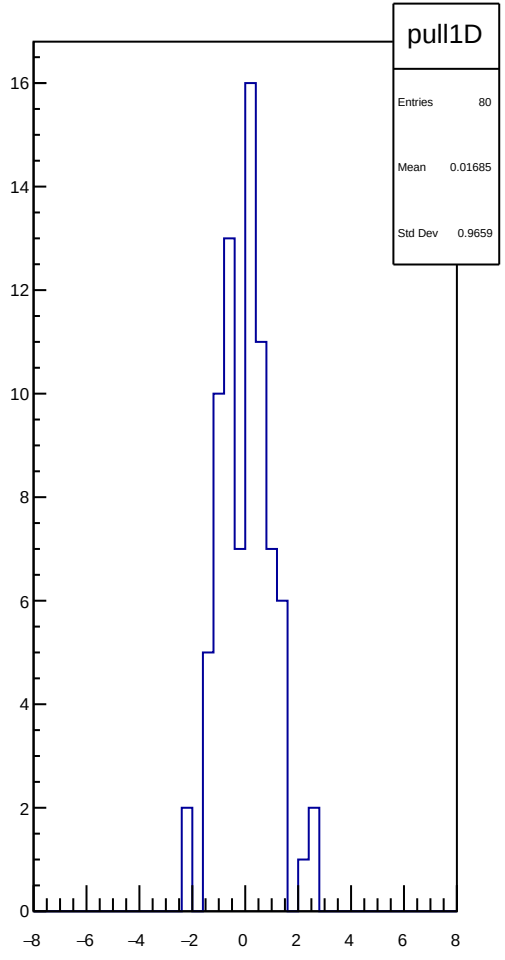

asym_atl_dd_correction_rms vs run
χ² / ndf 1.117e+04 / 79
p0 5901 ± 4.737
7500
7000
6500
6000
5500
5000

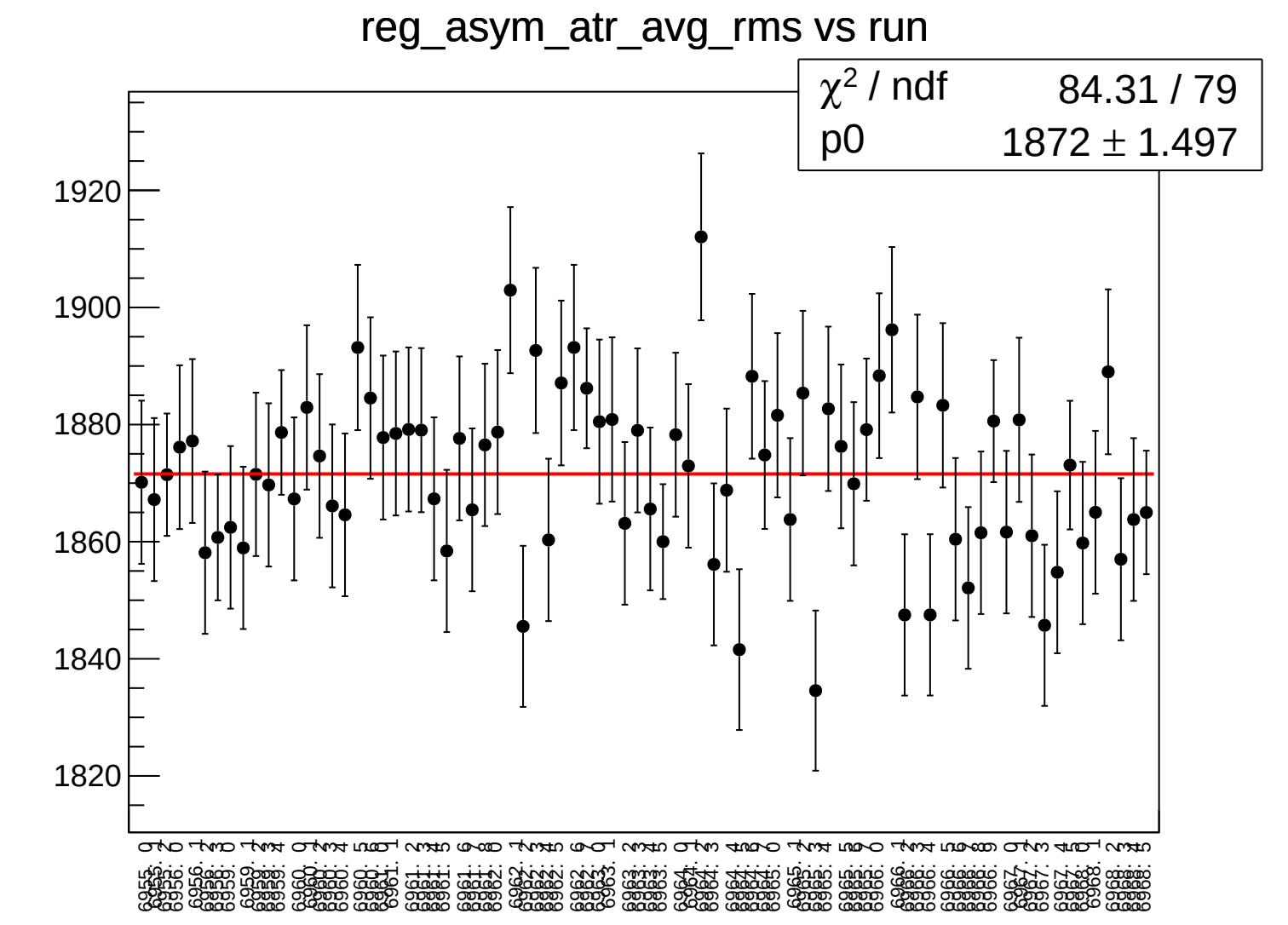

asym_atl_dd_mean vs run
×10^3
χ² / ndf 84.54 / 79
p0 −2425 ± 7038
200
100
0
−100
−200
−300
pull
Entries 80
Mean 0.7694
Std Dev 43.73
2
1
0
−1
−2

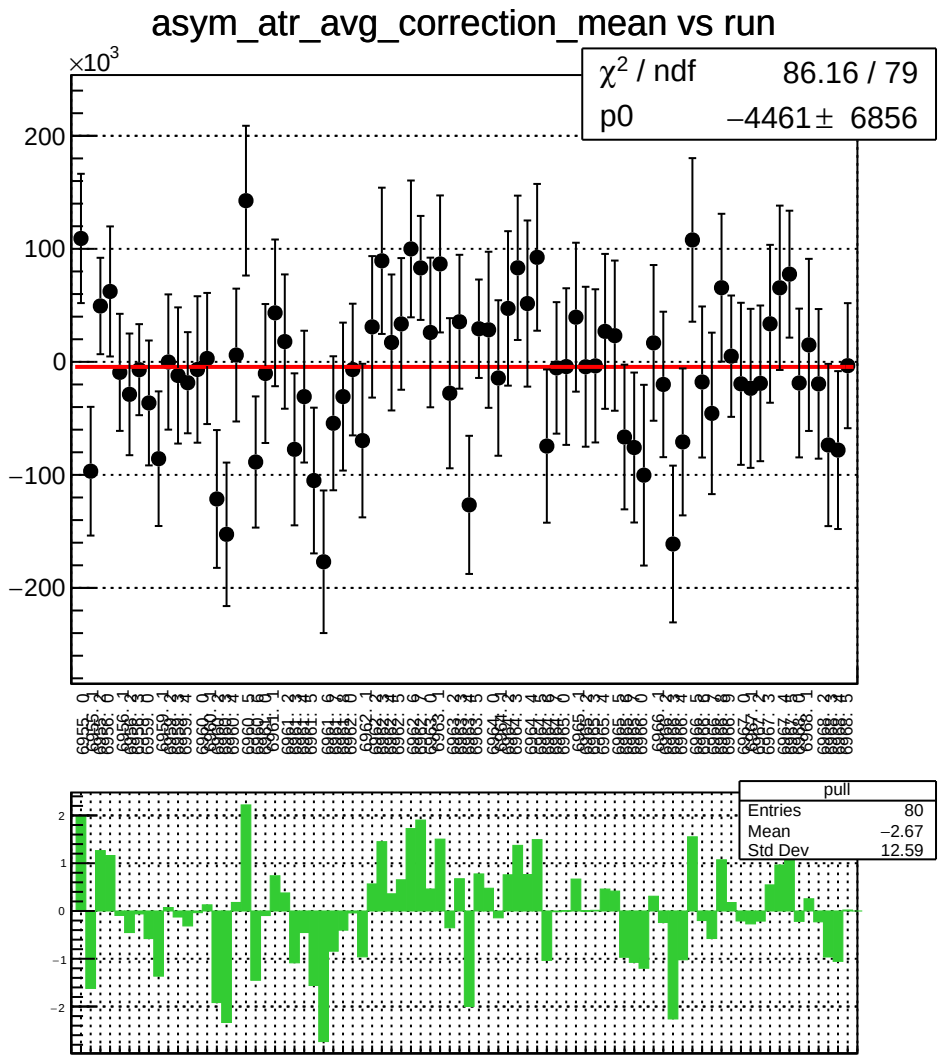

pull1D
Entries 80
Mean −0.01758
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

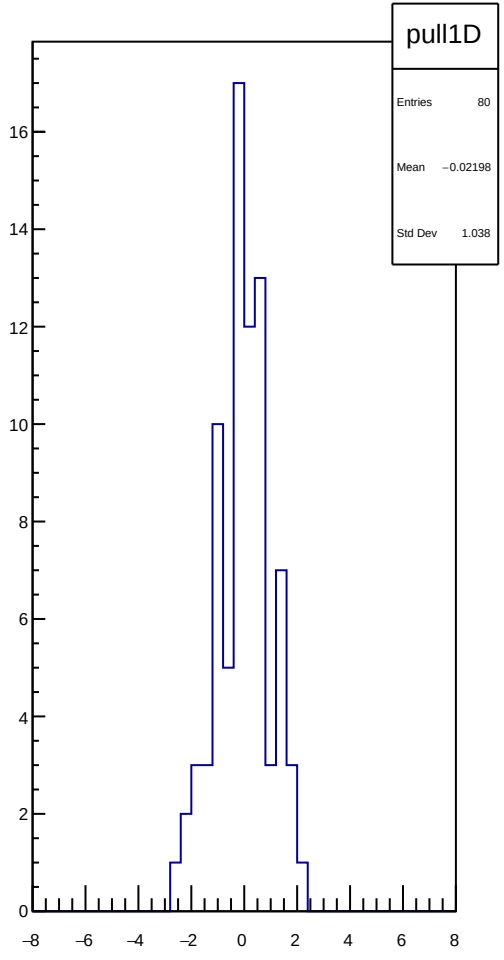

asym_atl_dd_rms vs run
χ^2 / ndf 1.163e+04 / 79
p0 6199 ± 4.977
8500
8000
7500
7000
6500
6000
5500
5000

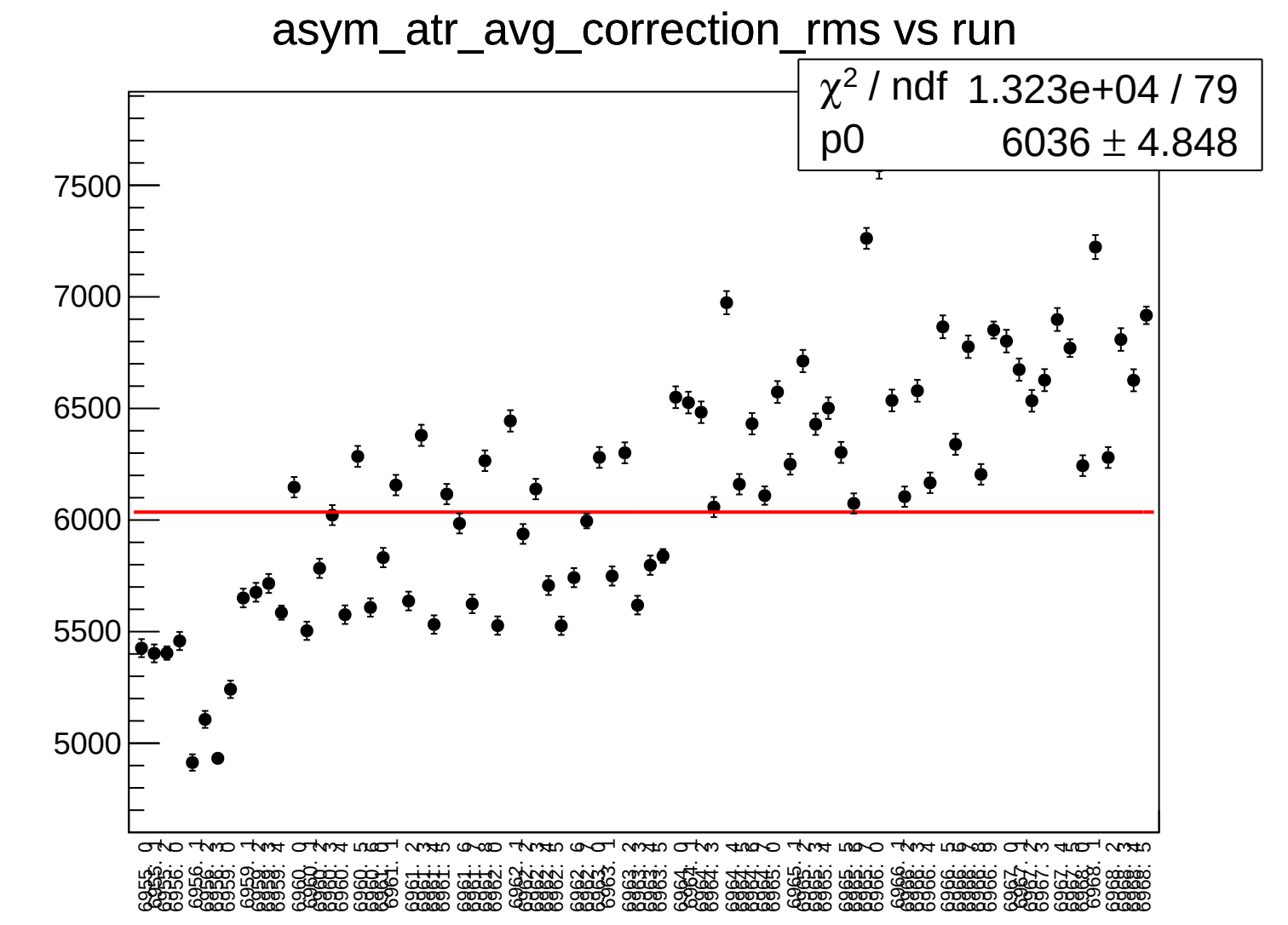

reg_asym_atr_avg_mean vs run
χ² / ndf 74.66 / 79
p0 −3562 ± 2117
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 80
Mean −398.3
Std Dev 433.5
2
1
0
−1
−2

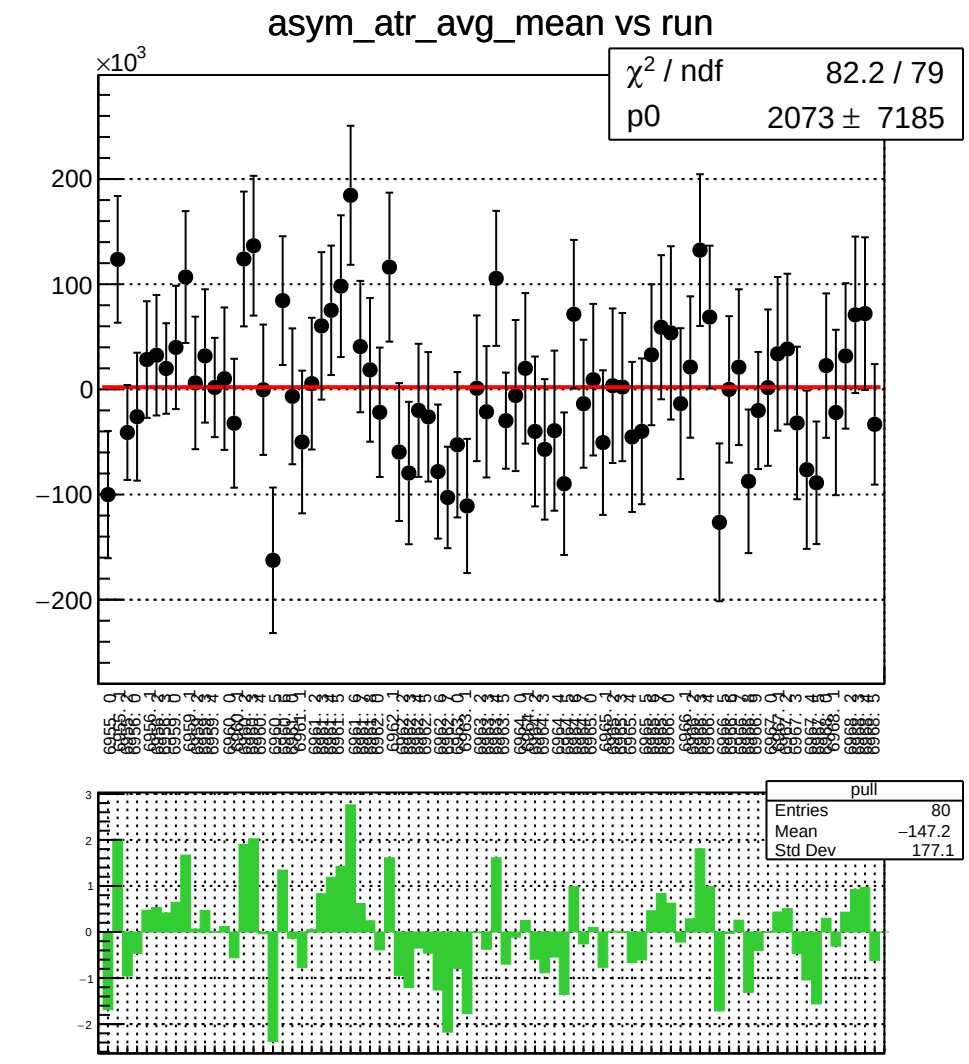

pull1D
Entries 80
Mean 0.01685
Std Dev 0.9659
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

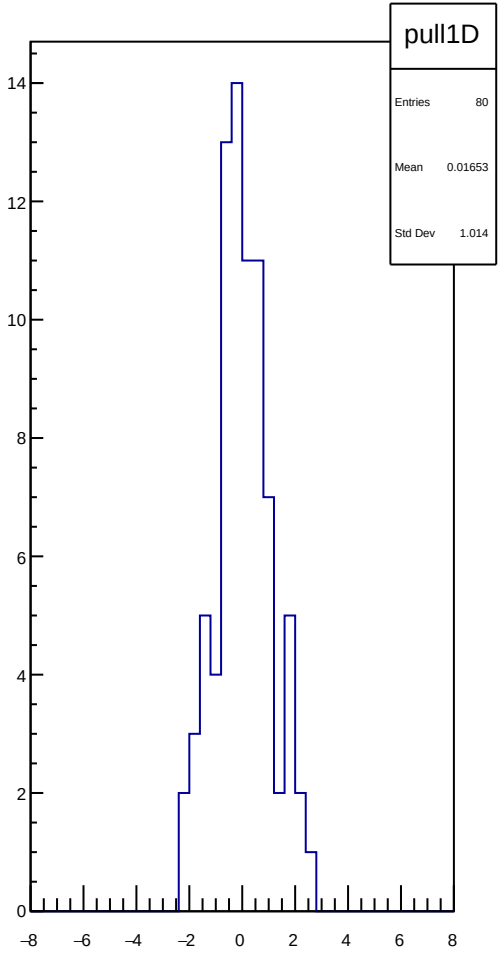

reg_asym_atr_avg_rms vs run
χ^2 / ndf 84.31 / 79
p0 1872 ± 1.497
1920
1900
1880
1860
1840
1820

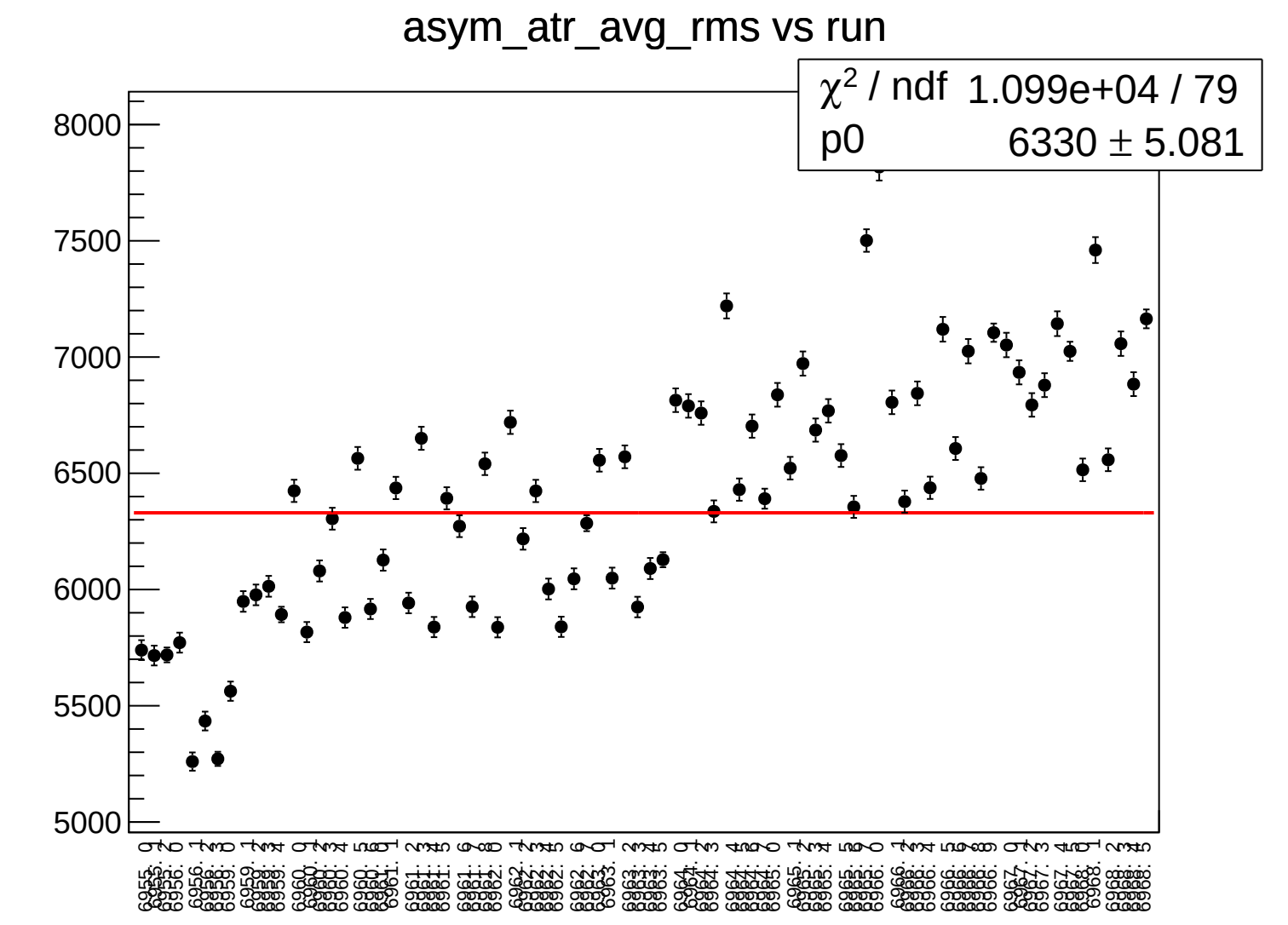

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 86.16 / 79
p0 −4461 ± 6856
200
100
0
−100
−200
pull
Entries 80
Mean −2.67
Std Dev 12.59
2
1
0
−1
−2

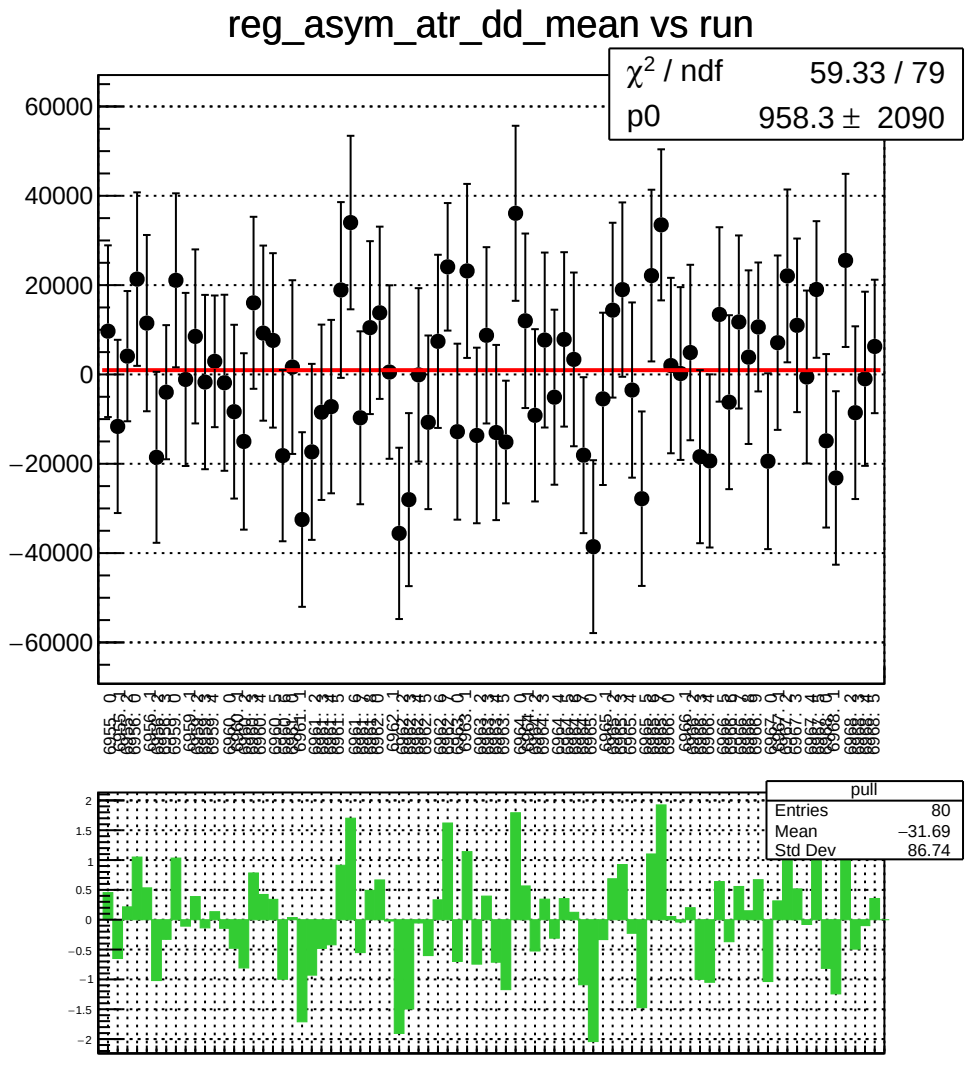

pull1D
Entries 80
Mean −0.02198
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

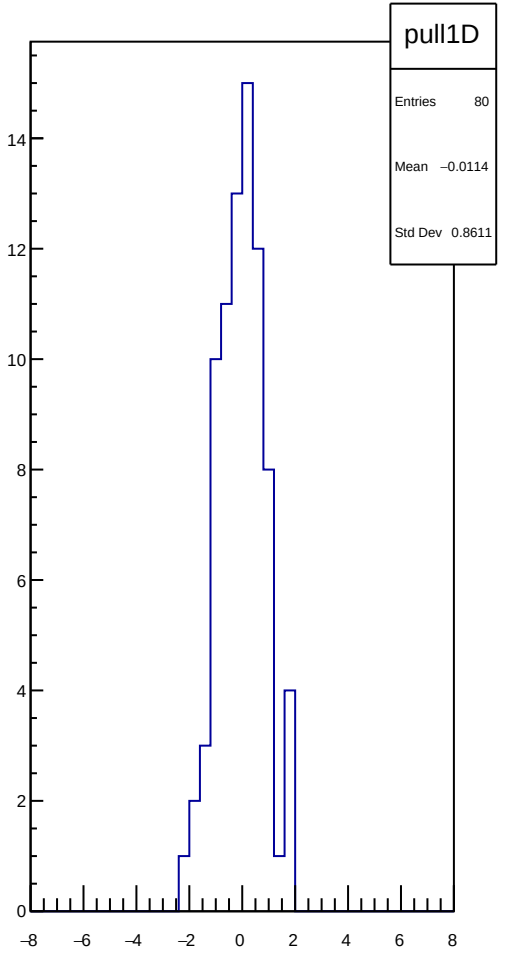

asym_atr_avg_correction_rms vs run
χ^2 / ndf 1.323e+04 / 79
p0 6036 ± 4.848
7500
7000
6500
6000
5500
5000

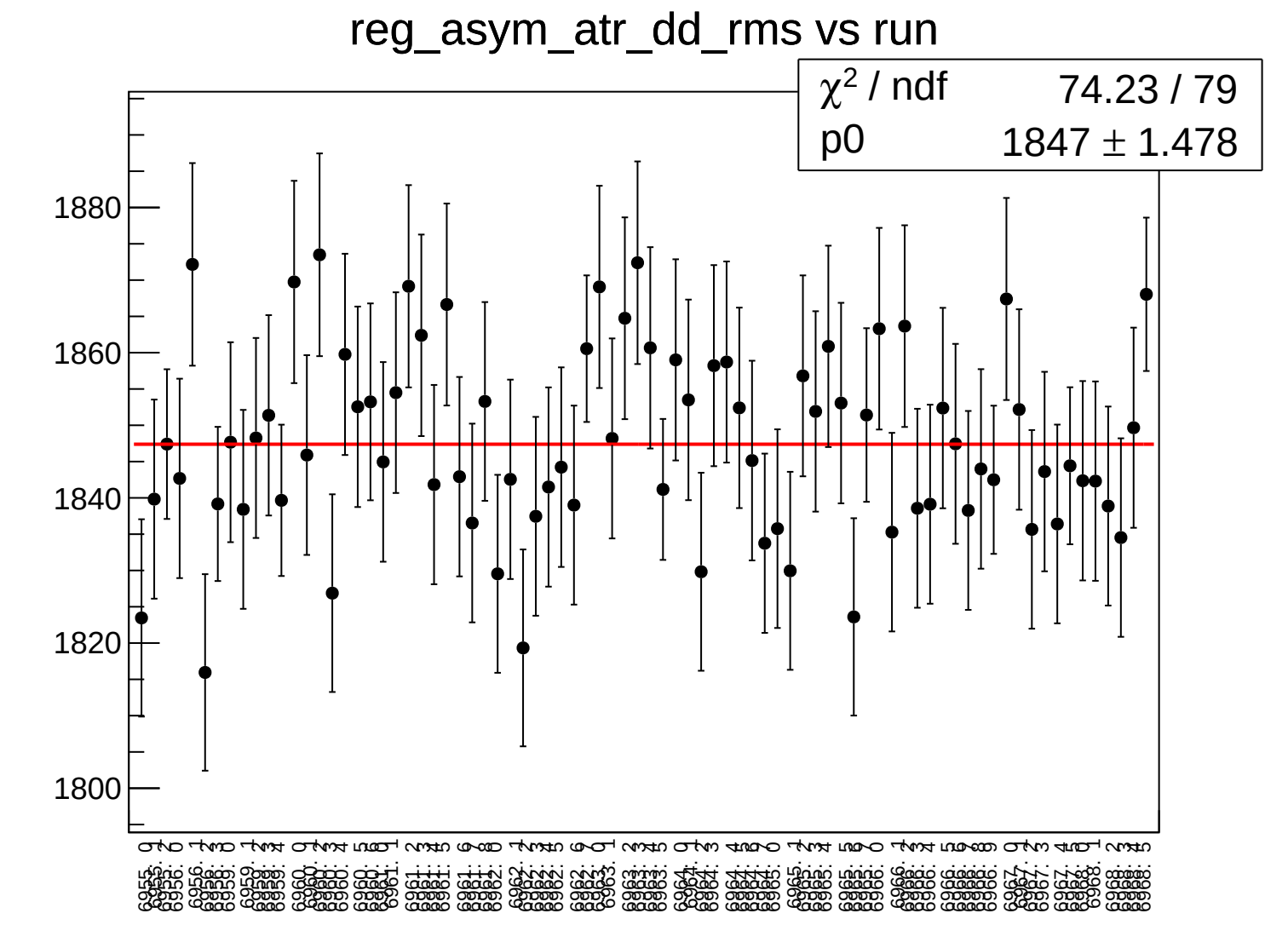

asym_atr_avg_mean vs run
×10^3
χ² / ndf 82.2 / 79
p0 2073 ± 7185
200
100
0
−100
−200
pull
Entries 80
Mean −147.2
Std Dev 177.1
3
2
1
0
−1
−2

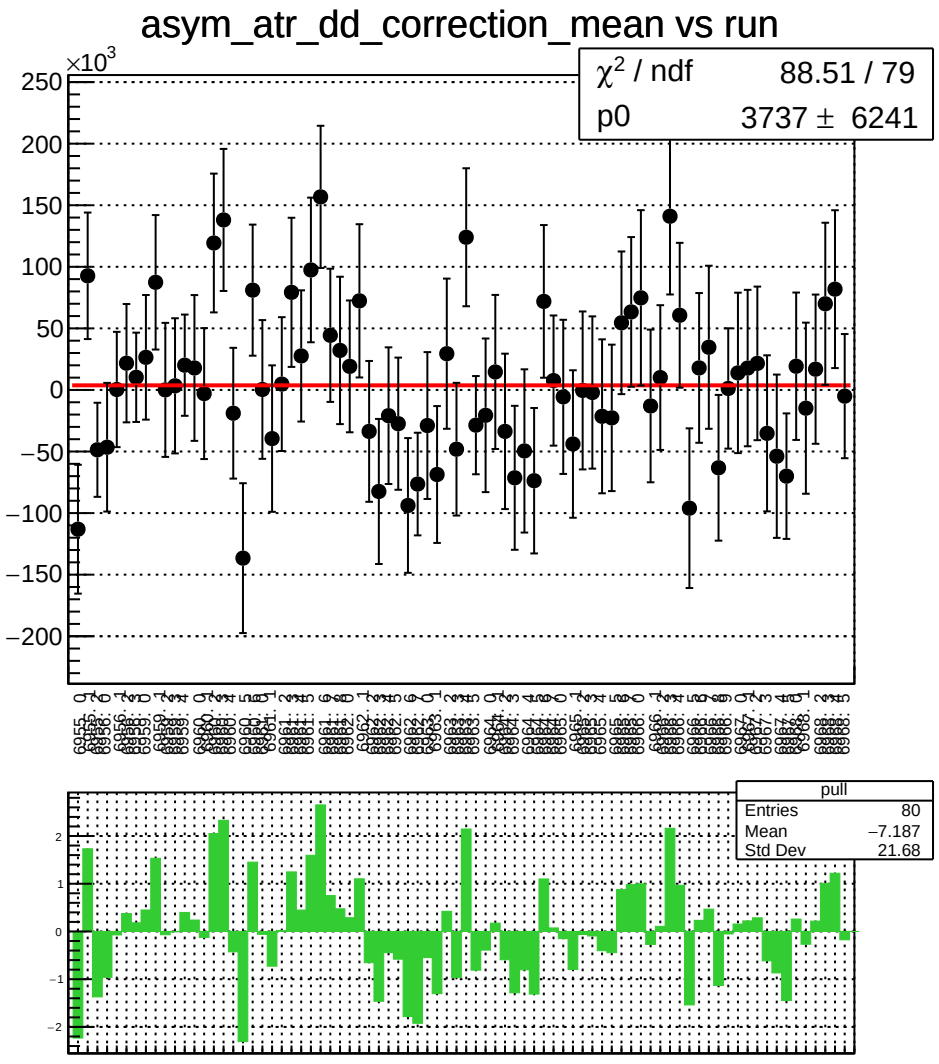

pull1D
Entries 80
Mean 0.01653
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

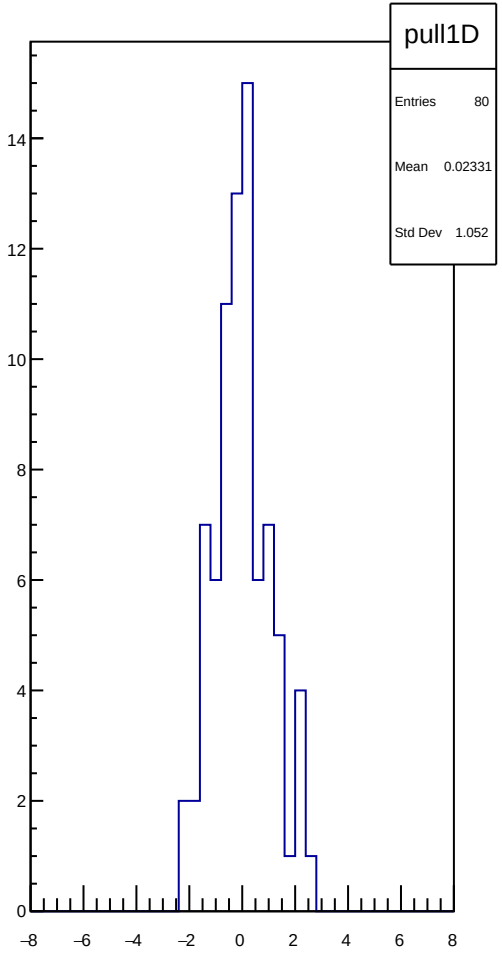

asym_atr_avg_rms vs run
χ² / ndf 1.099e+04 / 79
p0 6330 ± 5.081
8000
7500
7000
6500
6000
5500
5000

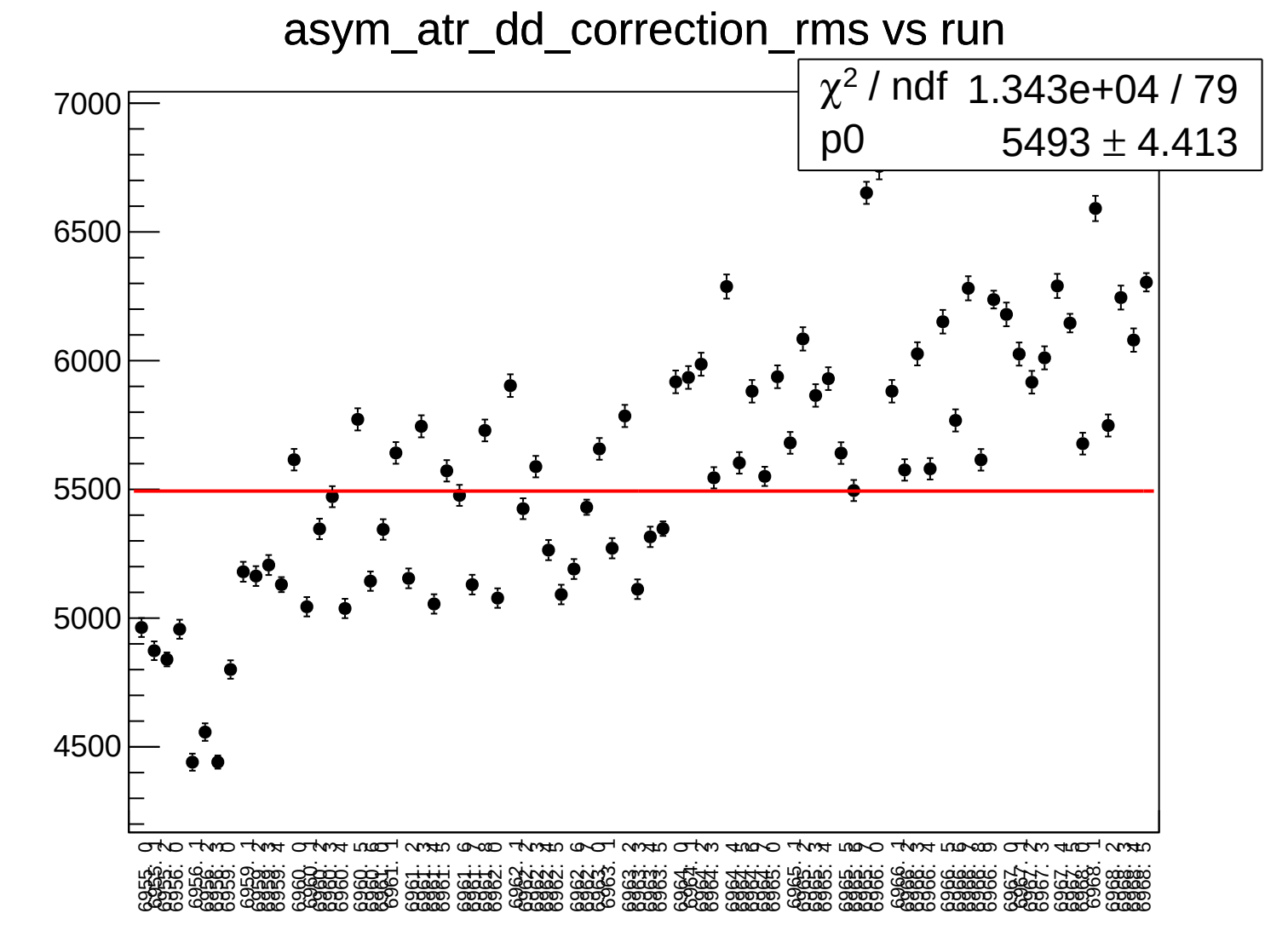

reg_asym_atr_dd_mean vs run
χ² / ndf 59.33 / 79
p0 958.3 ± 2090
pull
Entries 80
Mean −31.69
Std Dev 86.74

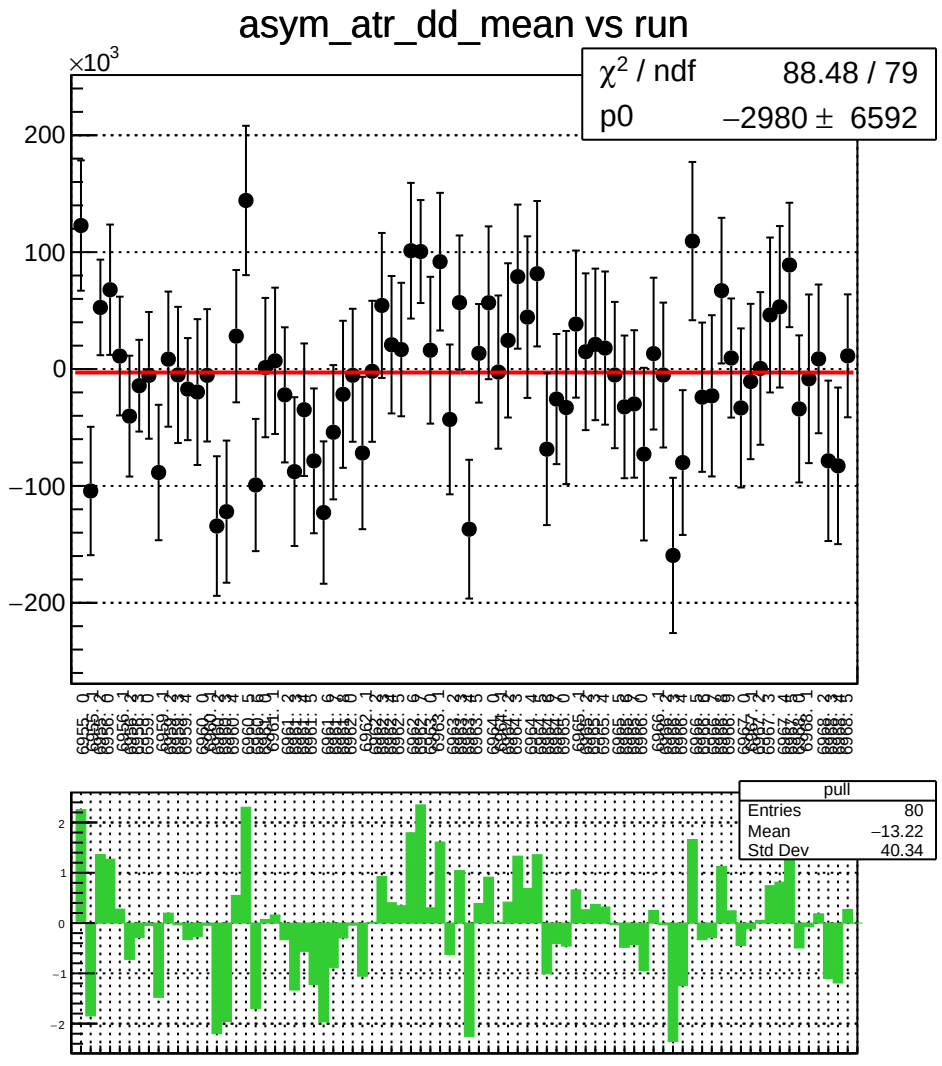

pull1D
Entries 80
Mean −0.0114
Std Dev 0.8611

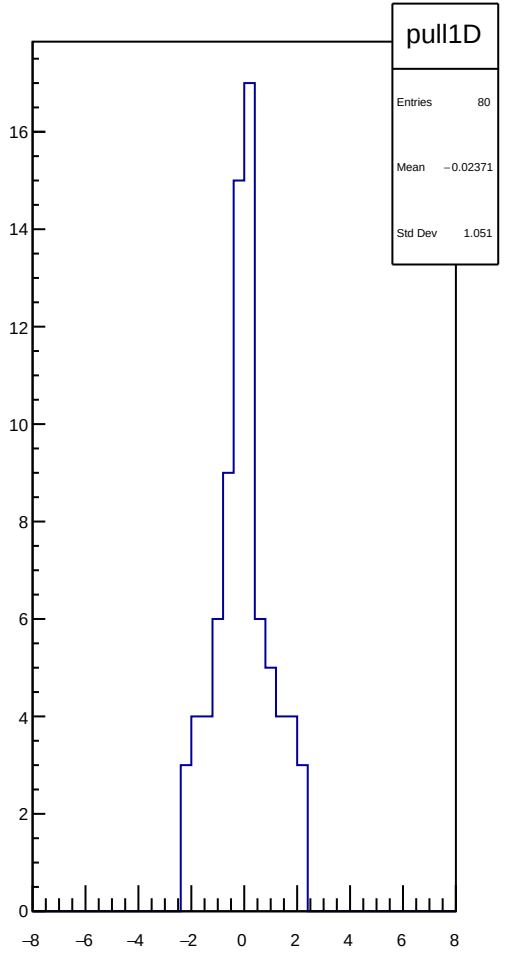

reg_asym_atr_dd_rms vs run
χ^2 / ndf 74.23 / 79
p0 1847 ± 1.478
1880
1860
1840
1820
1800

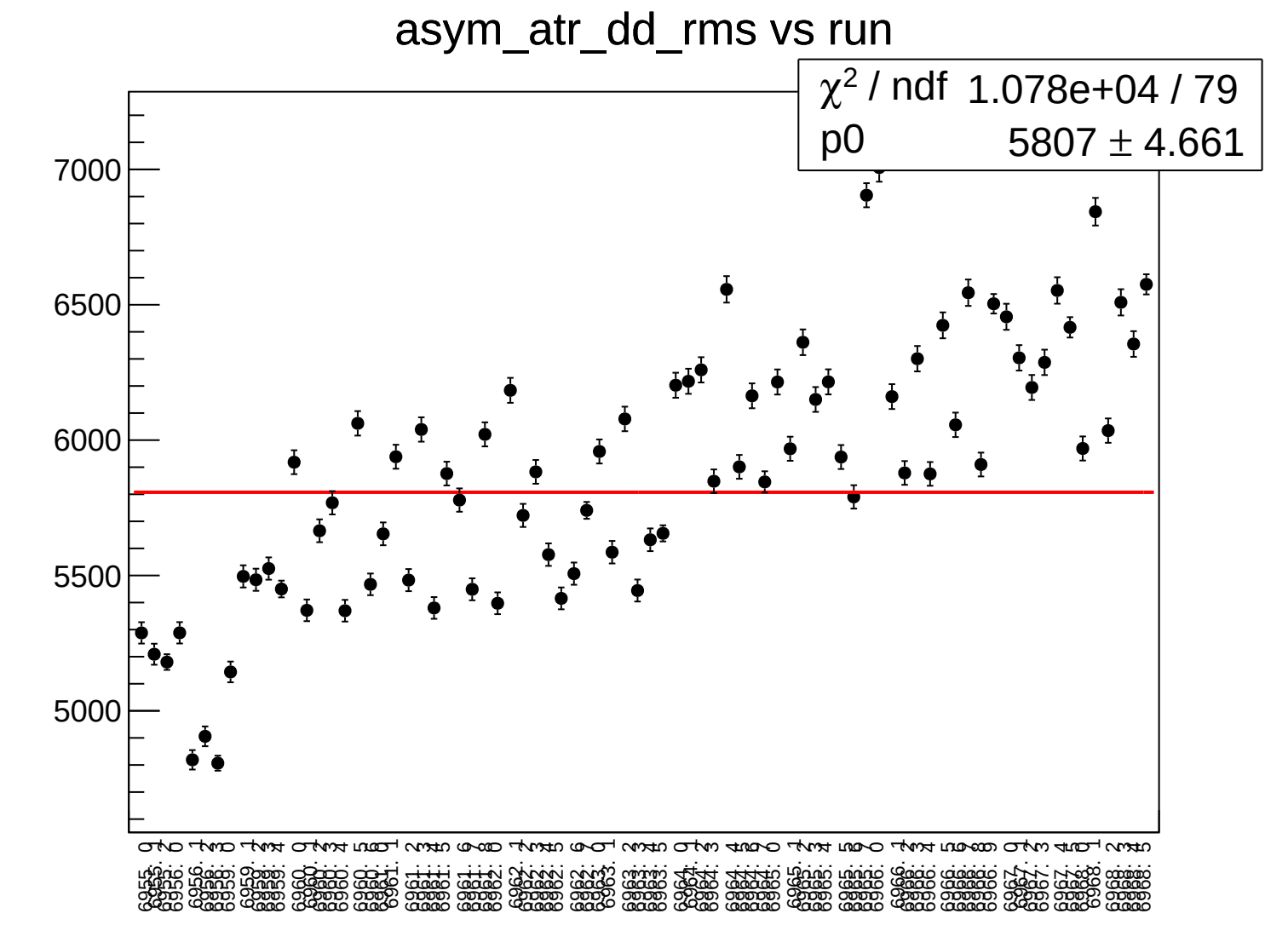

asym_atr_dd_correction_mean vs run
χ² / ndf 88.51 / 79
p0 3737 ± 6241
pull
Entries 80
Mean −7.187
Std Dev 21.68

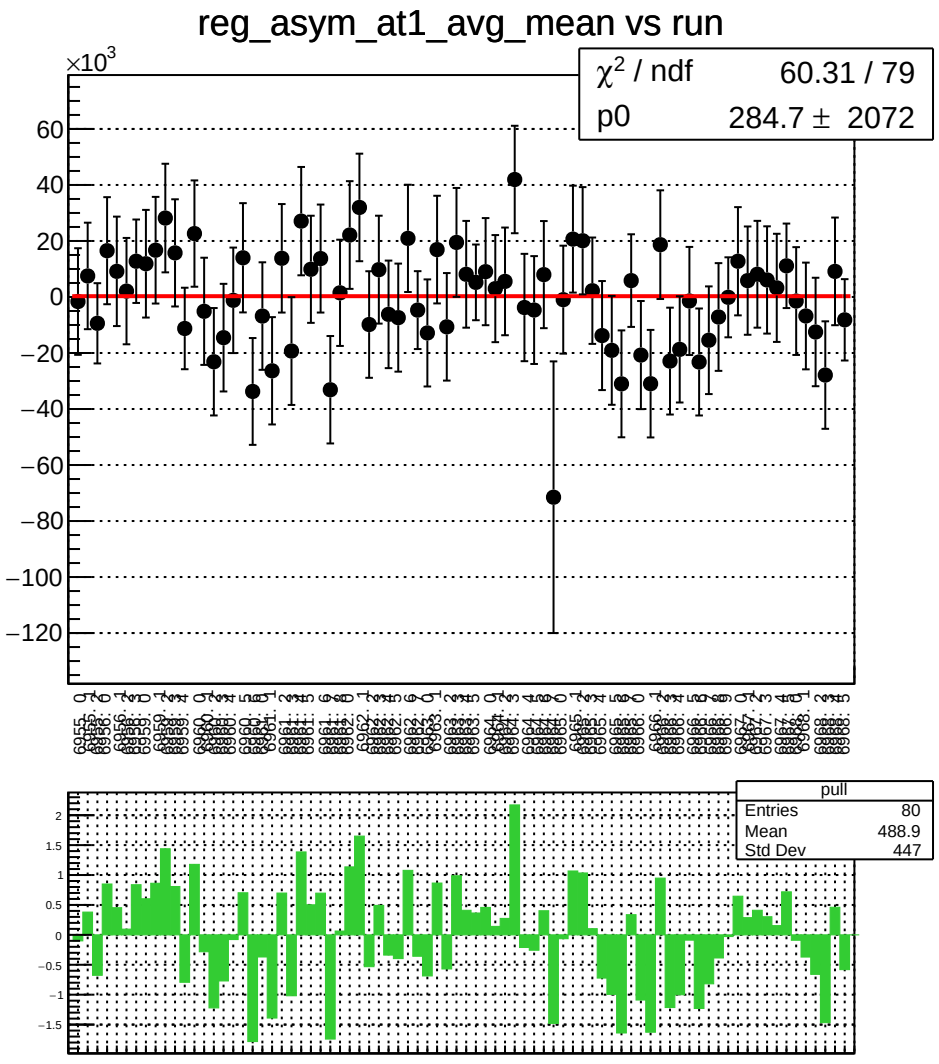

pull1D
Entries 80
Mean 0.02331
Std Dev 1.052

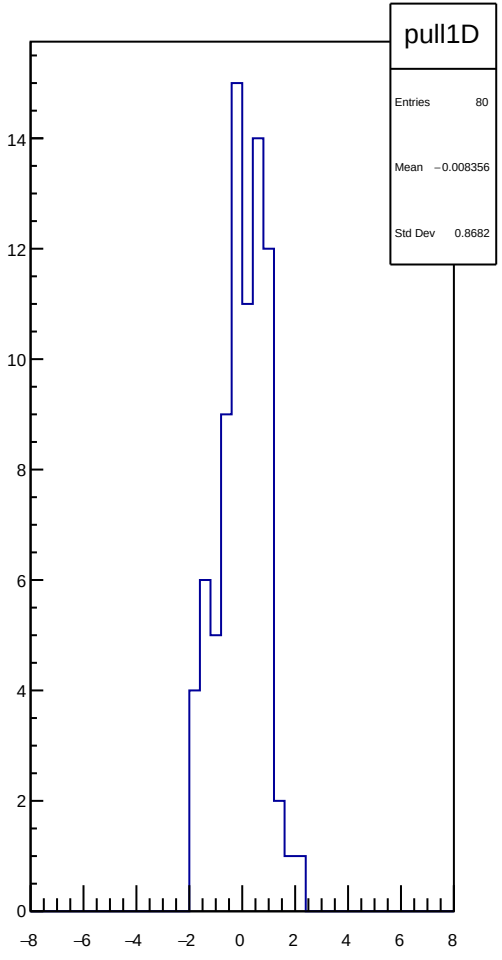

asym_atr_dd_correction_rms vs run
χ² / ndf 1.343e+04 / 79
p0 5493 ± 4.413
7000
6500
6000
5500
5000
4500

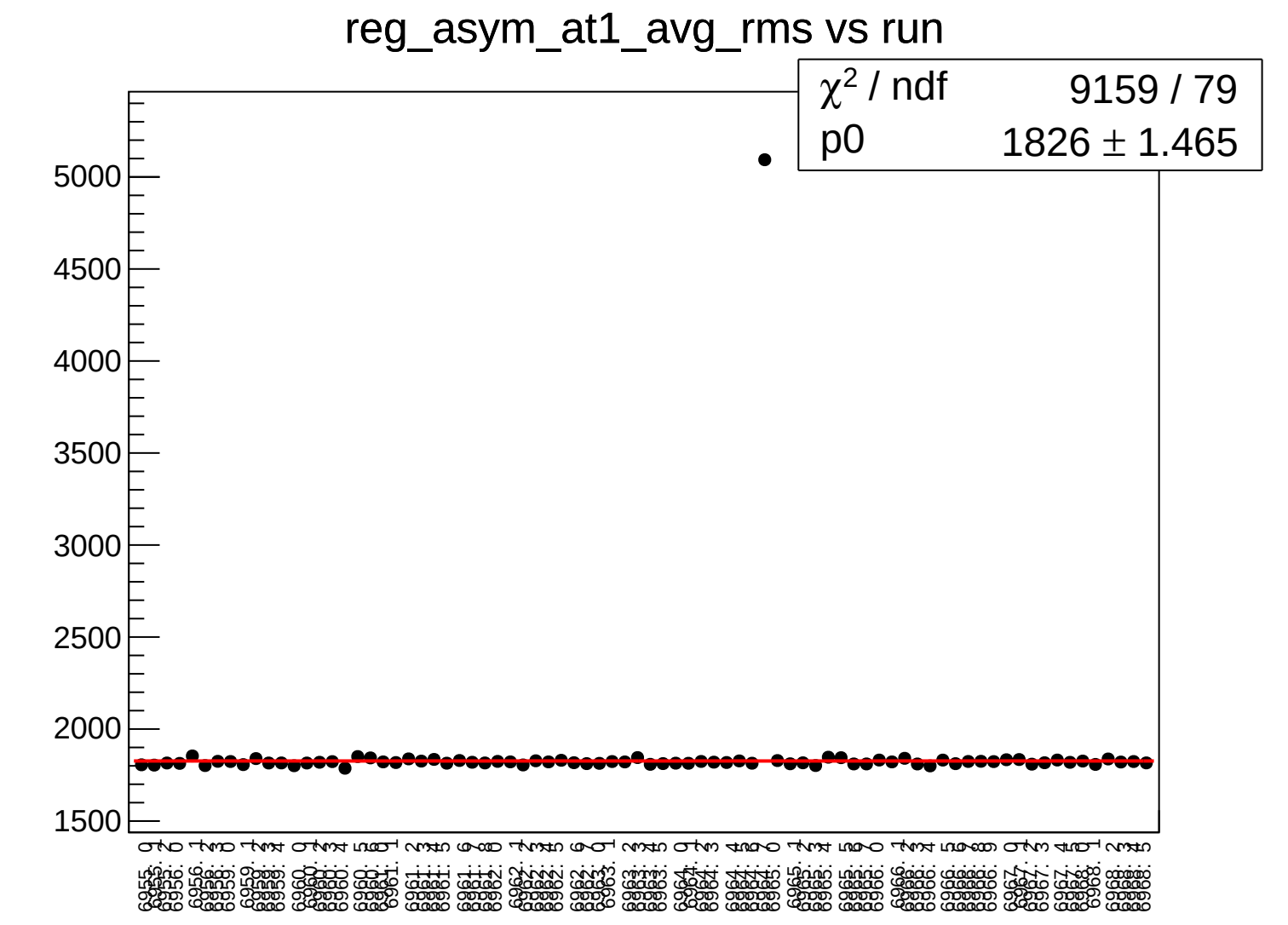

asym_atr_dd_mean vs run
×10^3
χ² / ndf 88.48 / 79
p0 −2980 ± 6592
200
100
0
−100
−200
pull
Entries 80
Mean −13.22
Std Dev 40.34
2
1
0
−1
−2

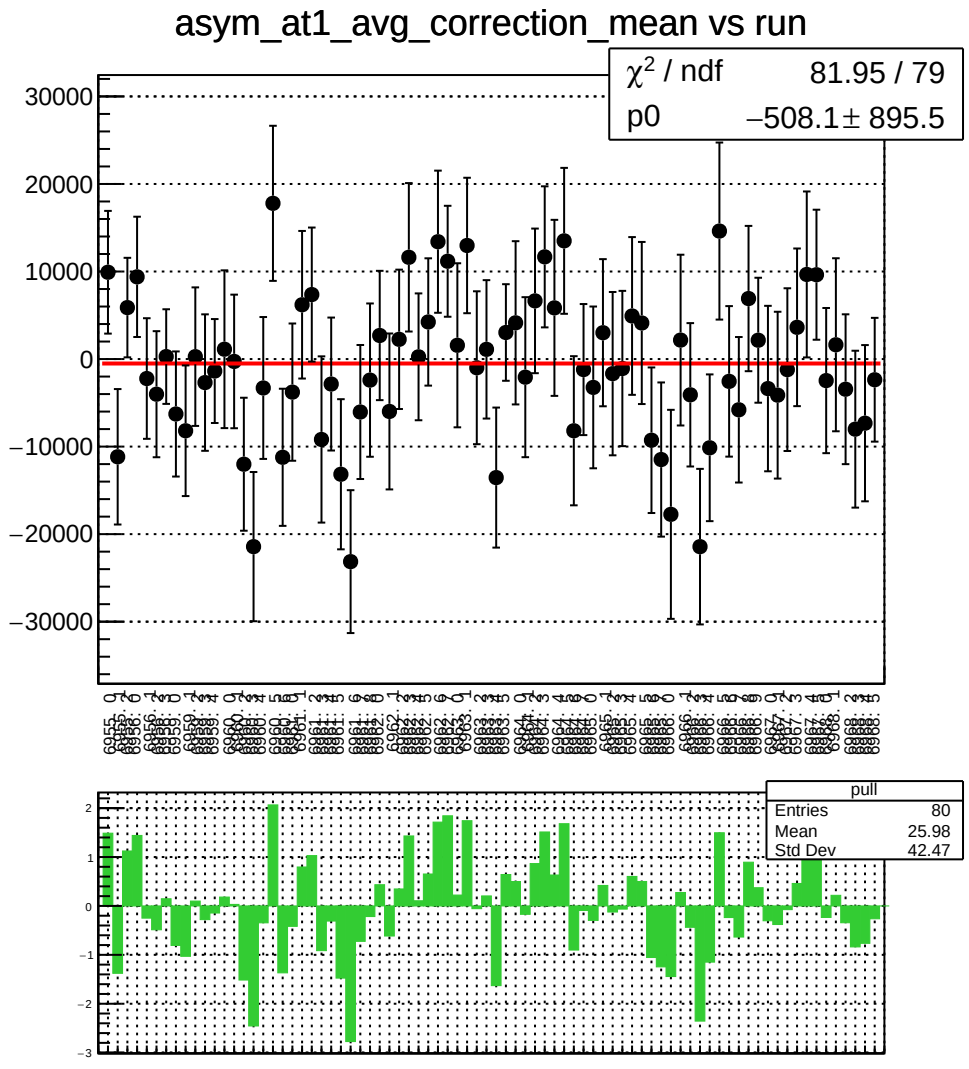

pull1D
Entries 80
Mean −0.02371
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

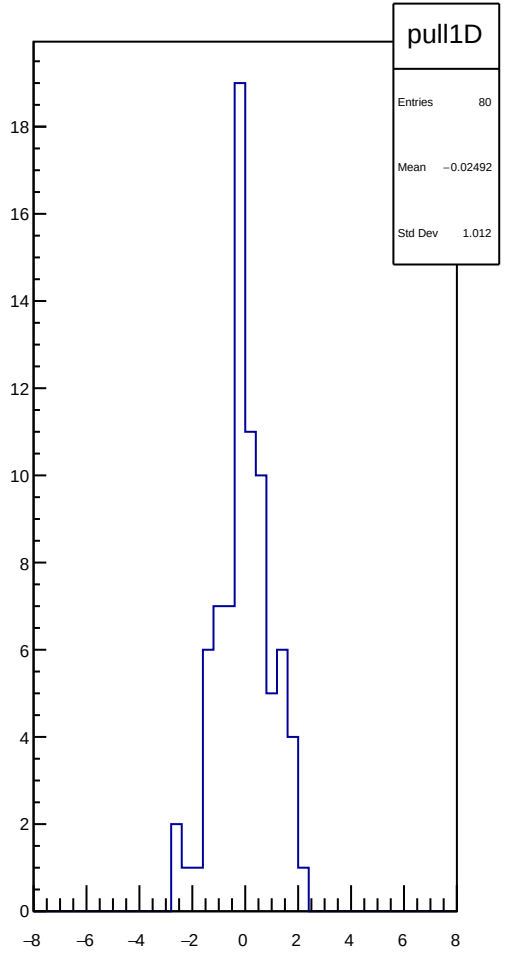

asym_atr_dd_rms vs run
χ² / ndf 1.078e+04 / 79
p0 5807 ± 4.661
7000
6500
6000
5500
5000

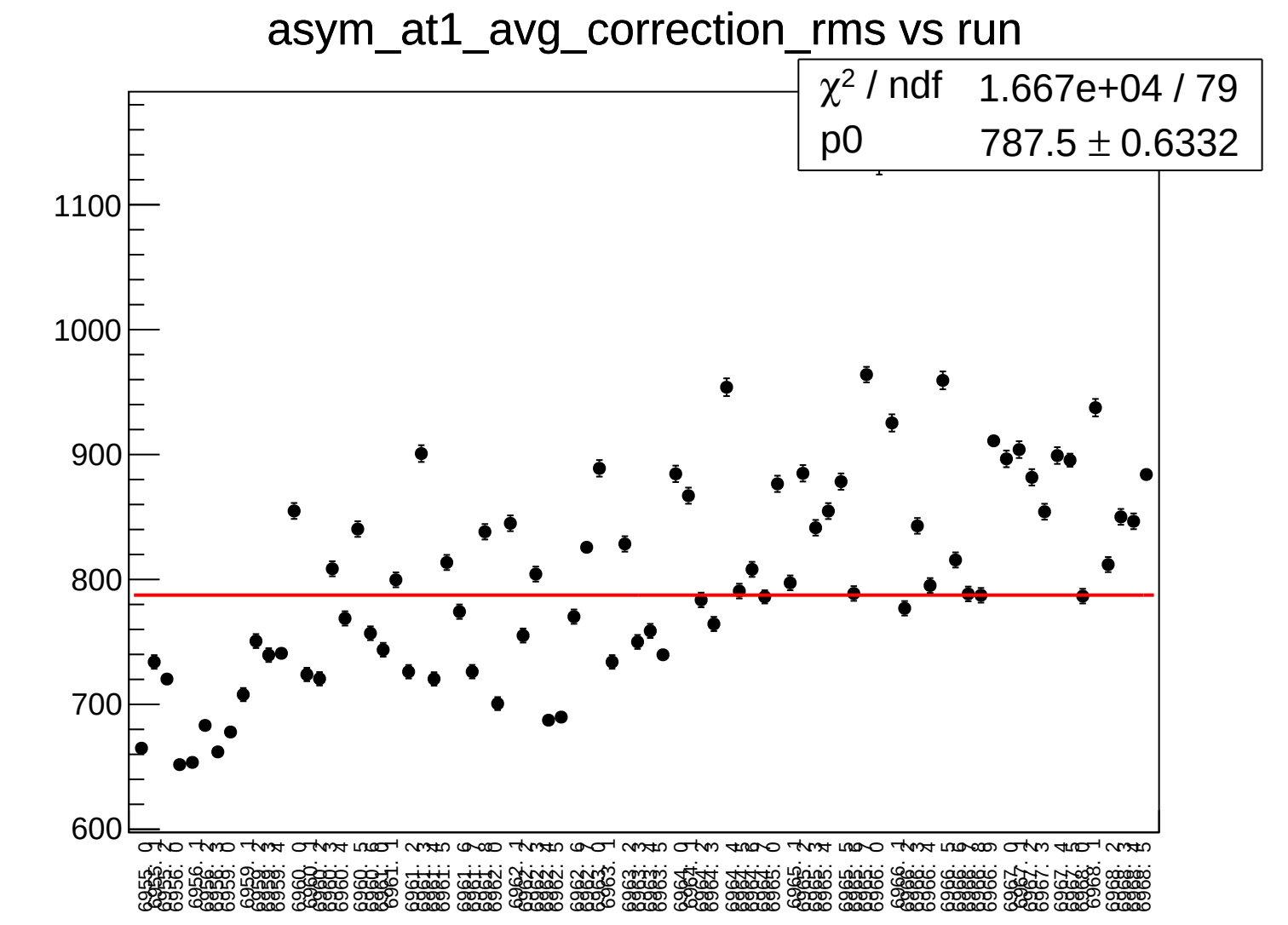

reg_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 60.31 / 79
p0 284.7 ± 2072
pull
Entries 80
Mean 488.9
Std Dev 447

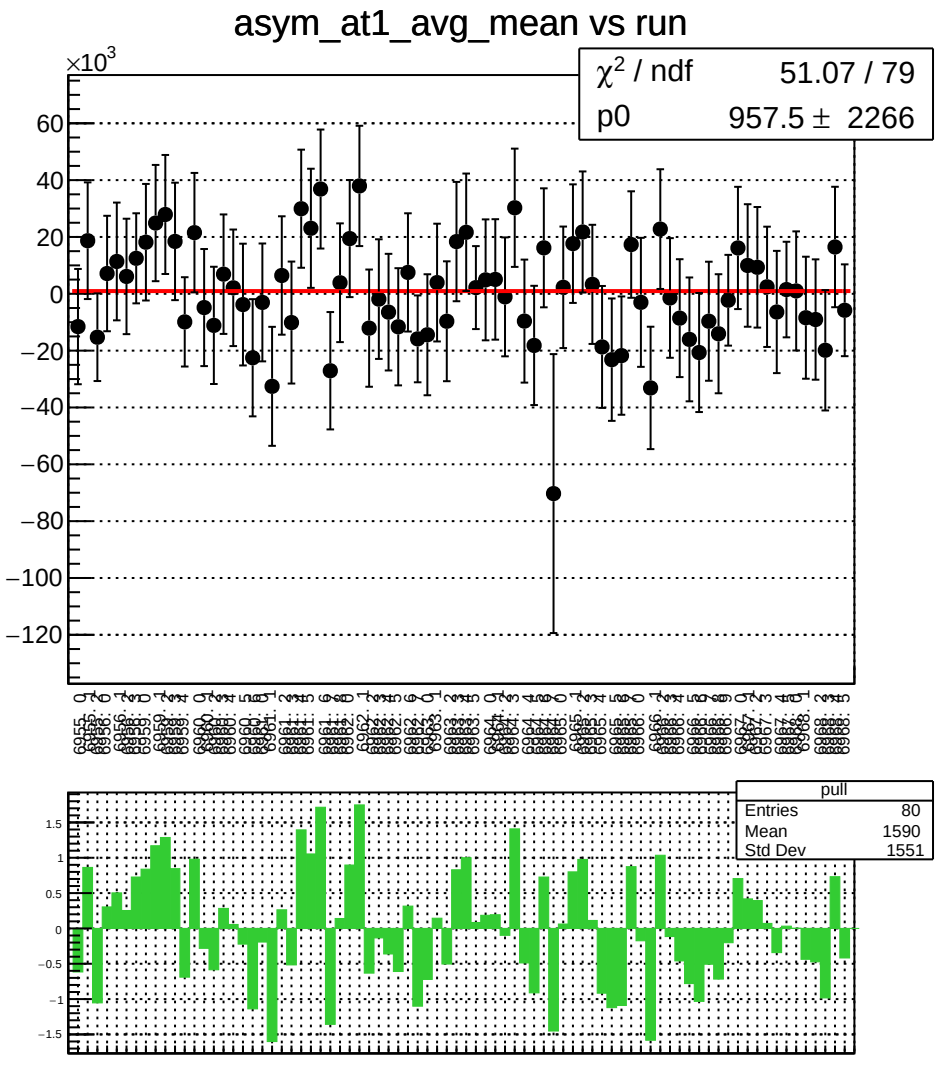

pull1D
Entries 80
Mean −0.008356
Std Dev 0.8682

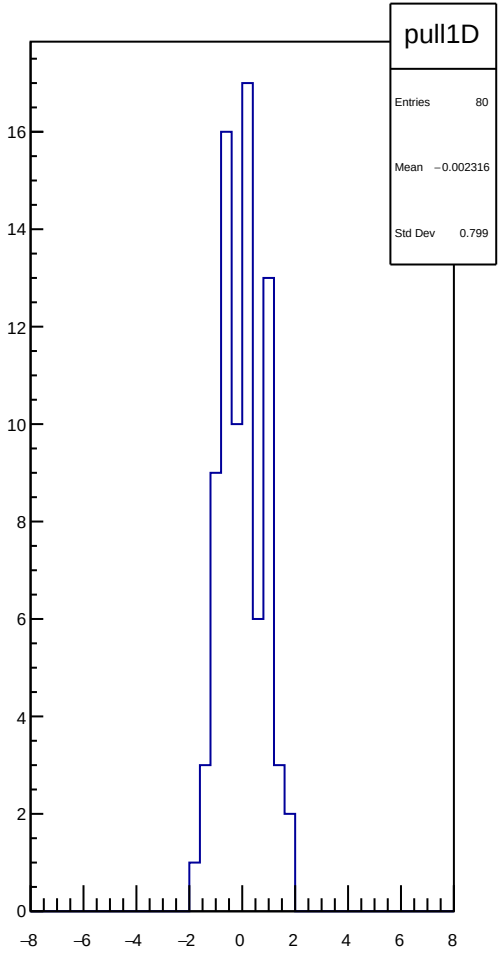

reg_asym_at1_avg_rms vs run
χ^2 / ndf 9159 / 79
p0 1826 ± 1.465
5000
4500
4000
3500
3000
2500
2000
1500

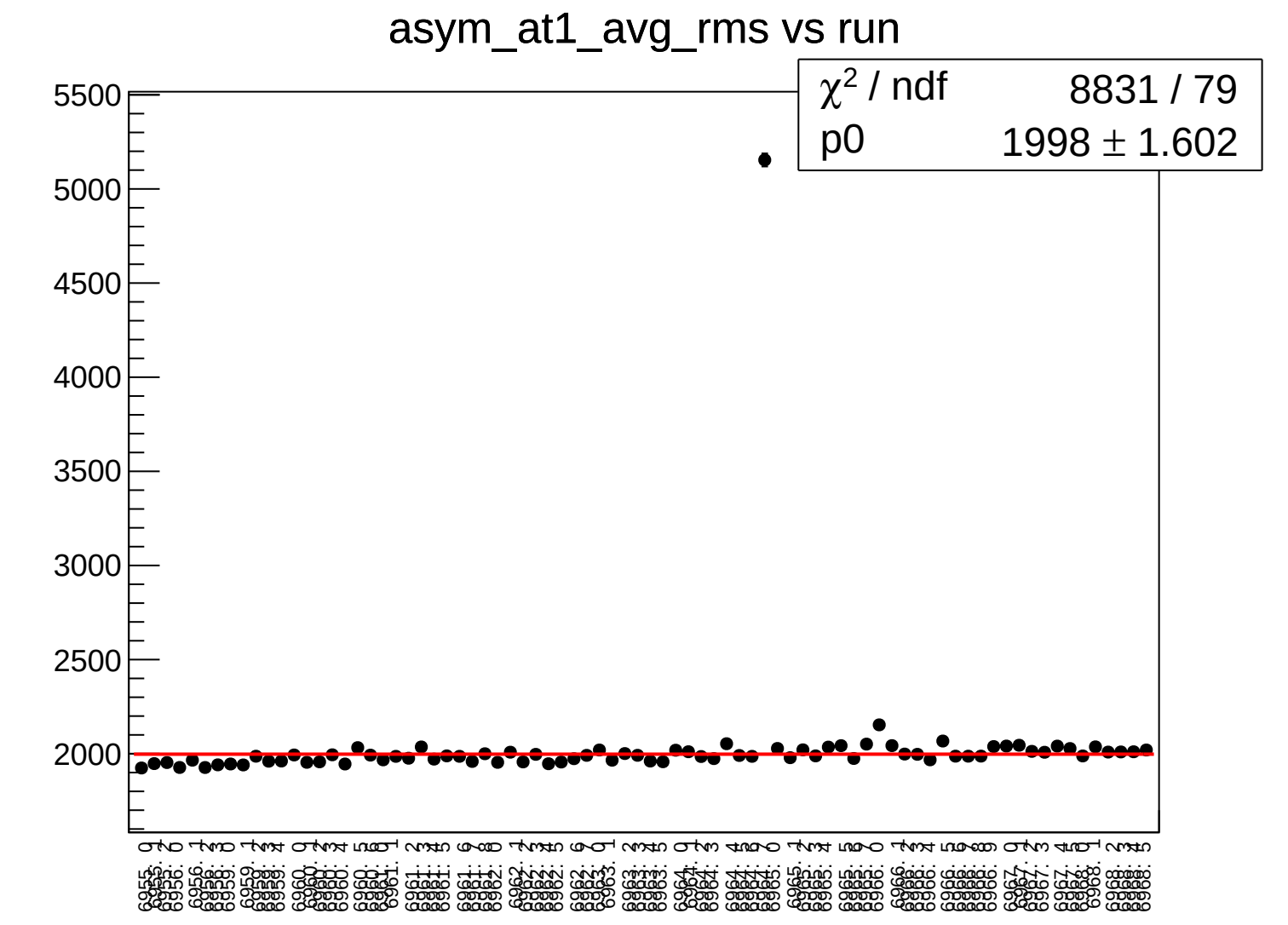

asym_at1_avg_correction_mean vs run
χ² / ndf 81.95 / 79
p0 −508.1± 895.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 80
Mean 25.98
Std Dev 42.47
2
1
0
−1
−2
−3

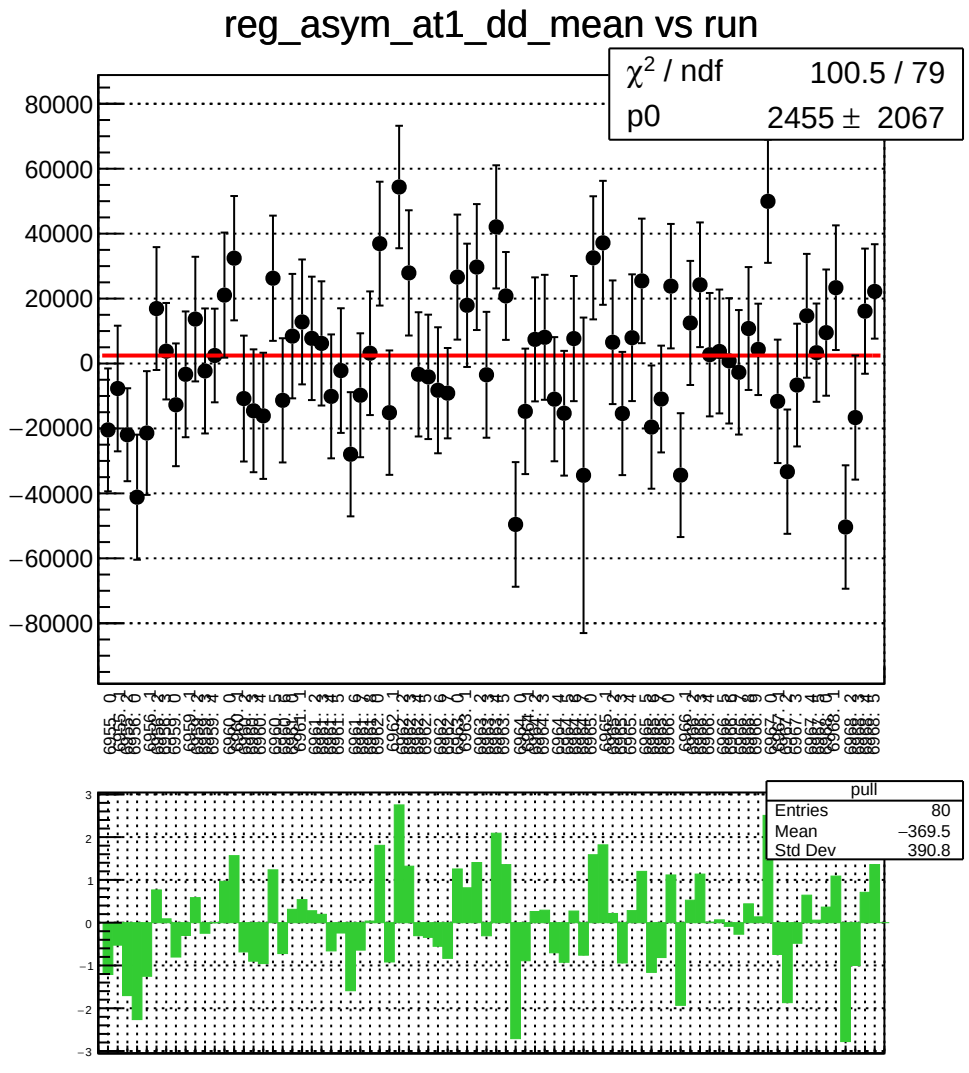

pull1D
Entries 80
Mean −0.02492
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

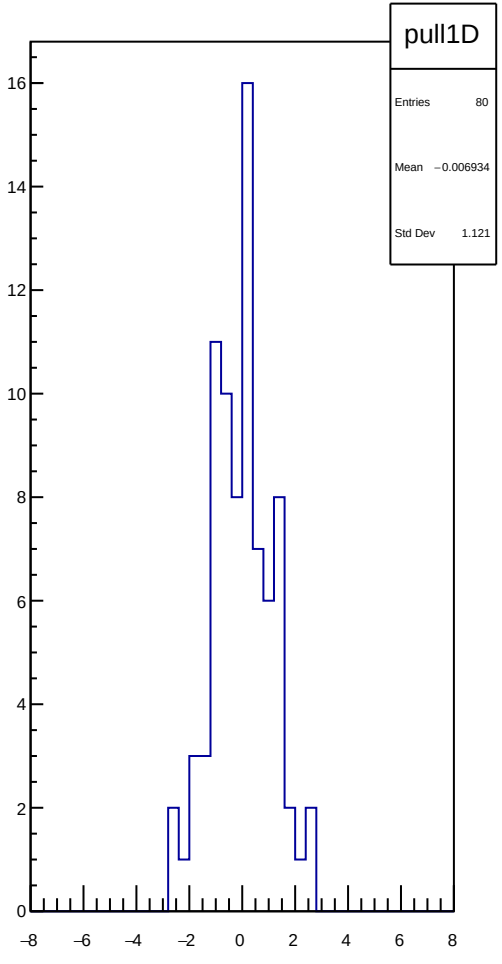

asym_at1_avg_correction_rms vs run
χ^2 / ndf 1.667e+04 / 79
p0 787.5 ± 0.6332
1100
1000
900
800
700
600

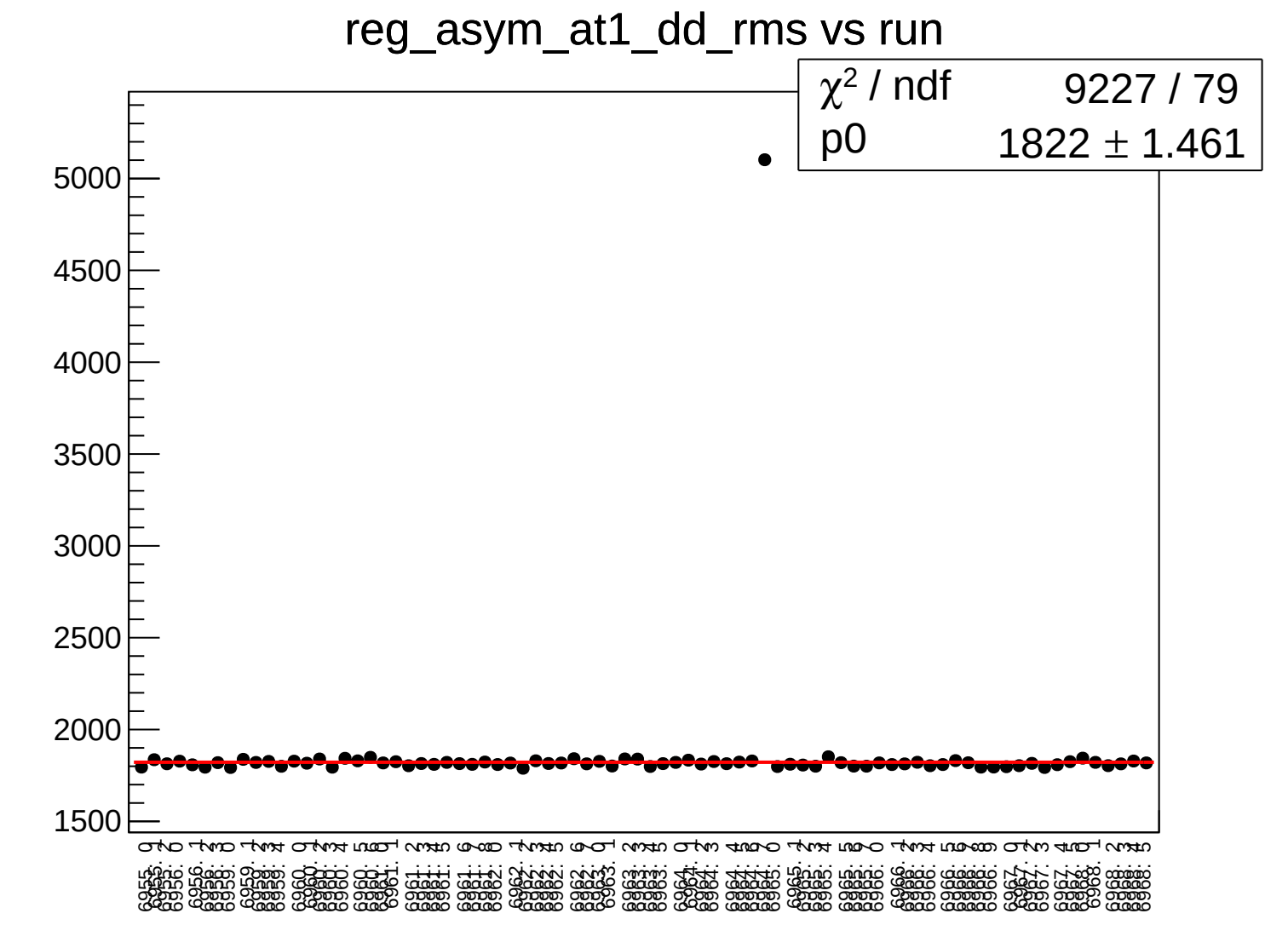

asym_at1_avg_mean vs run
×10^3
χ² / ndf 51.07 / 79
p0 957.5 ± 2266
pull
Entries 80
Mean 1590
Std Dev 1551

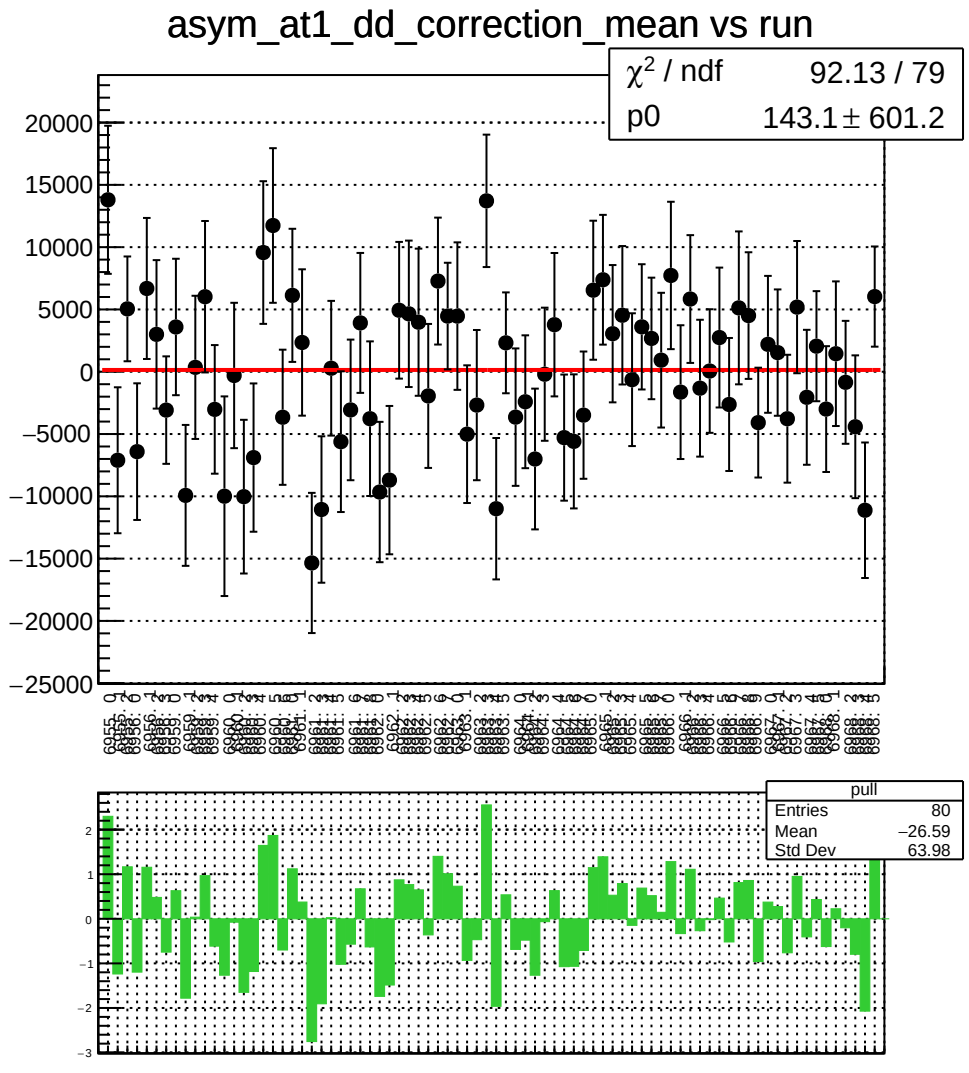

pull1D
Entries 80
Mean −0.002316
Std Dev 0.799

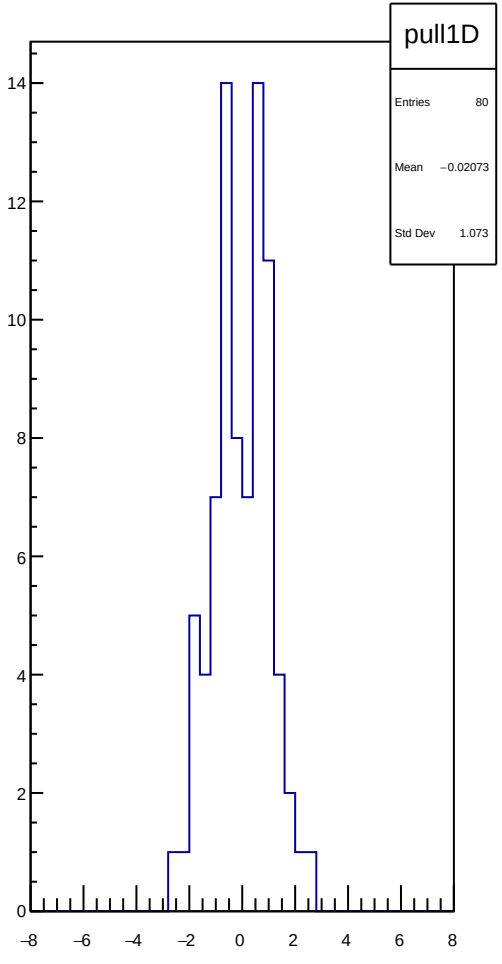

asym_at1_avg_rms vs run
χ^2 / ndf 8831 / 79
p0 1998 ± 1.602
5500
5000
4500
4000
3500
3000
2500
2000

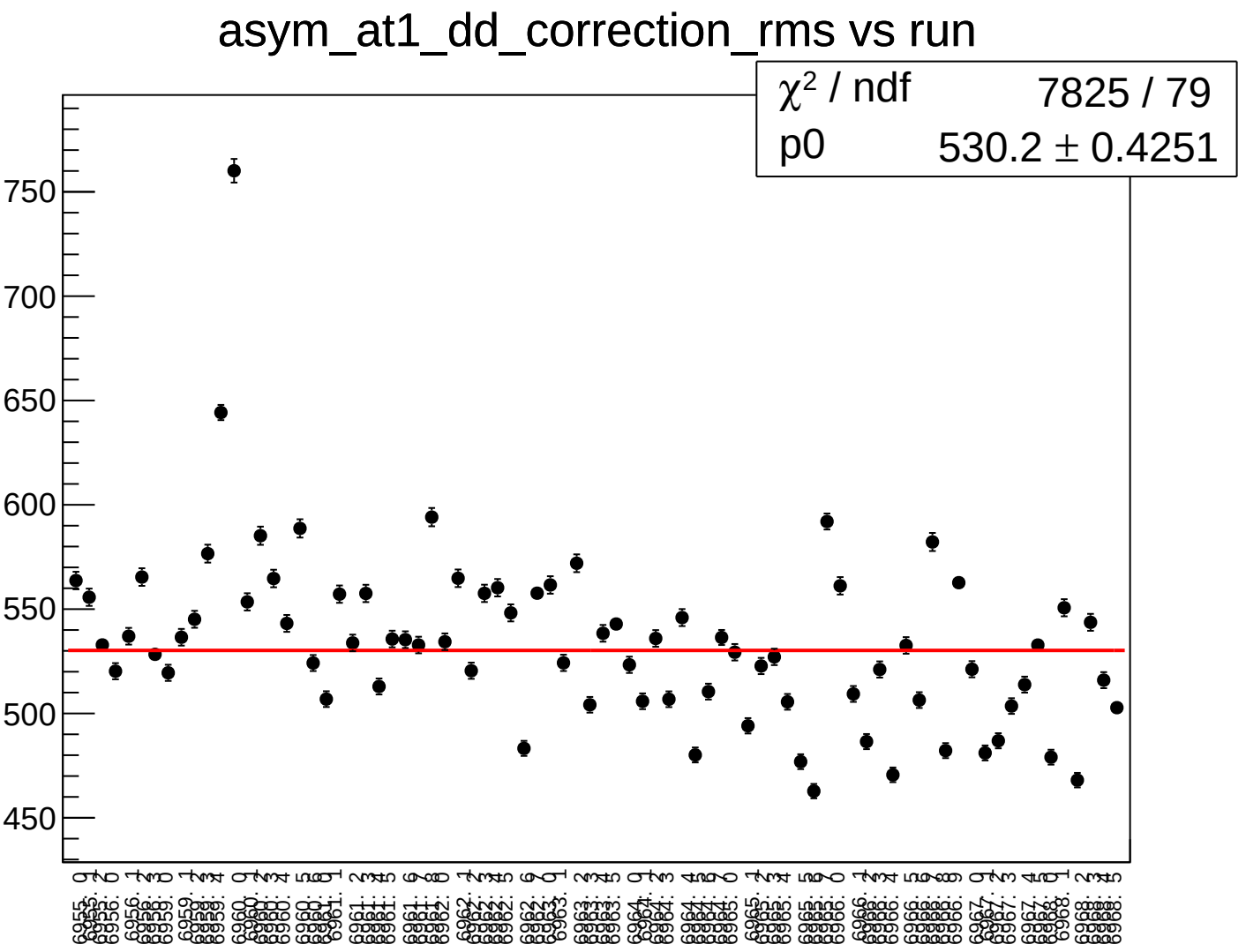

reg_asym_at1_dd_mean vs run
χ² / ndf 100.5 / 79
p0 2455 ± 2067
pull
Entries 80
Mean −369.5
Std Dev 390.8

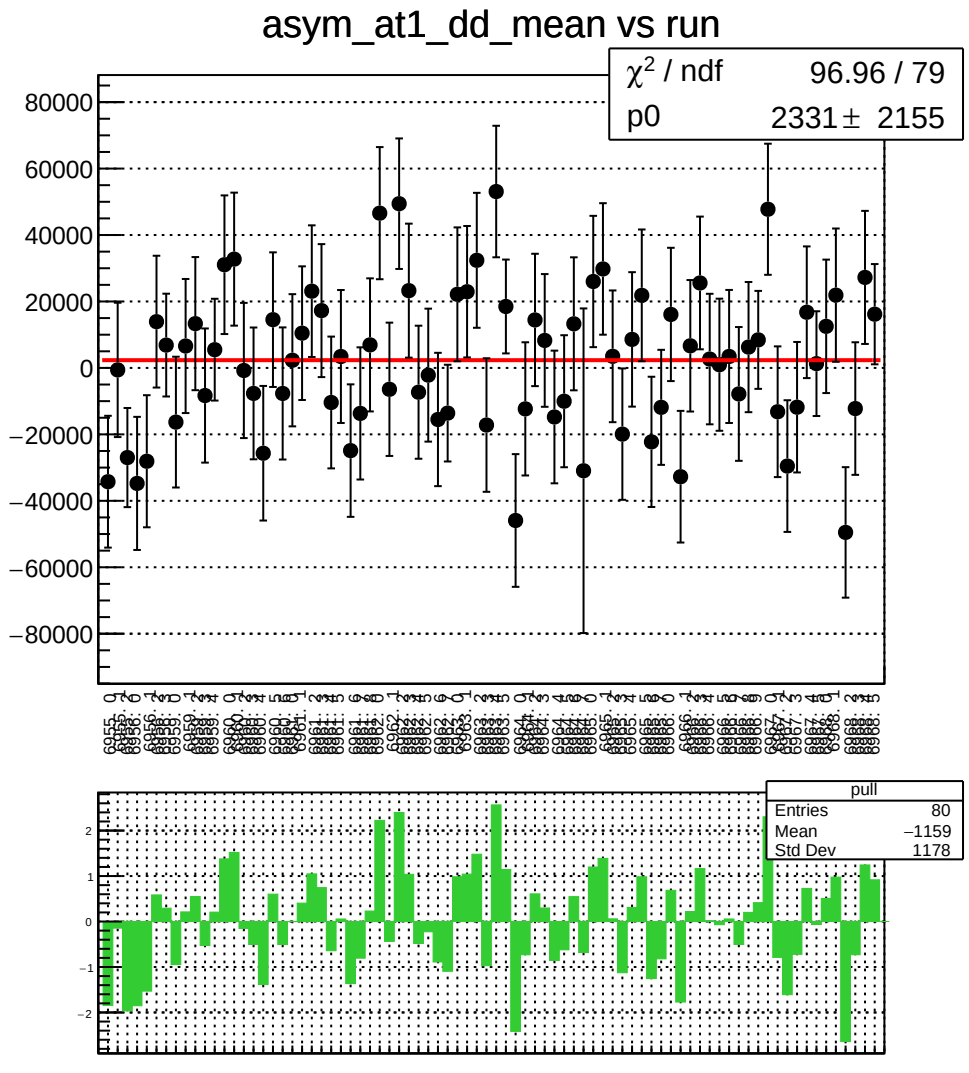

pull1D
Entries 80
Mean −0.006934
Std Dev 1.121

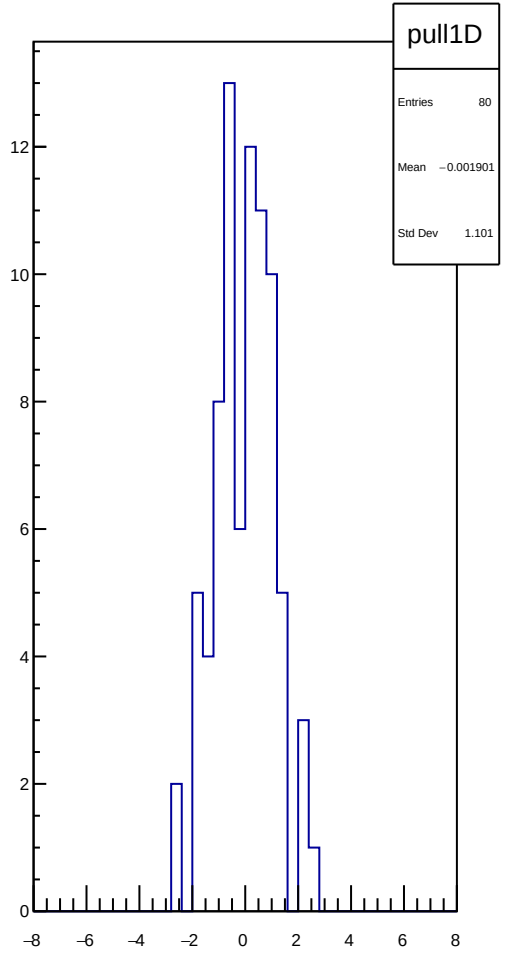

reg_asym_at1_dd_rms vs run
χ^2 / ndf 9227 / 79
p0 1822 ± 1.461
5000
4500
4000
3500
3000
2500
2000
1500

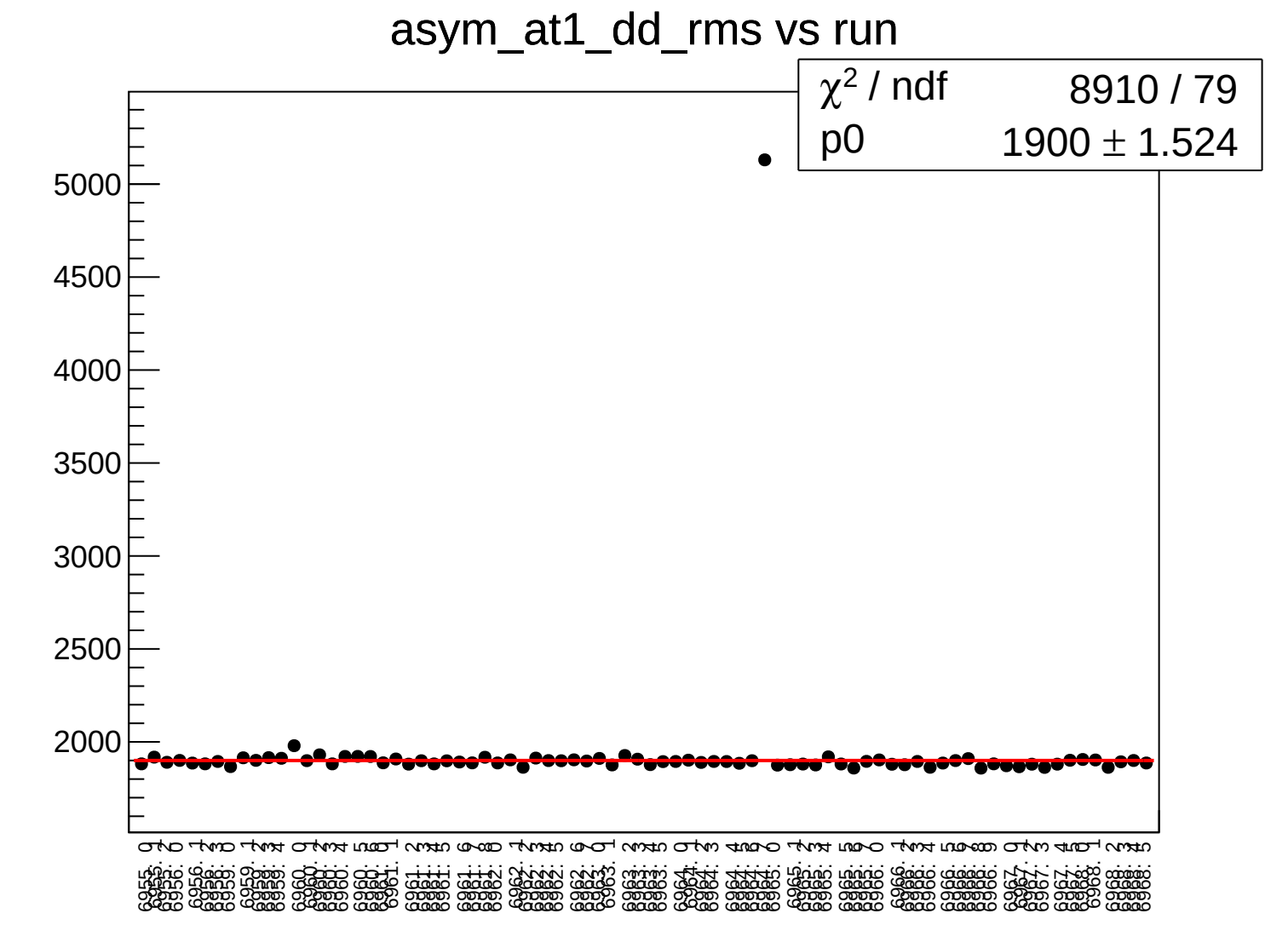

asym_at1_dd_correction_mean vs run
χ² / ndf 92.13 / 79
p0 143.1 ± 601.2
pull
Entries 80
Mean −26.59
Std Dev 63.98

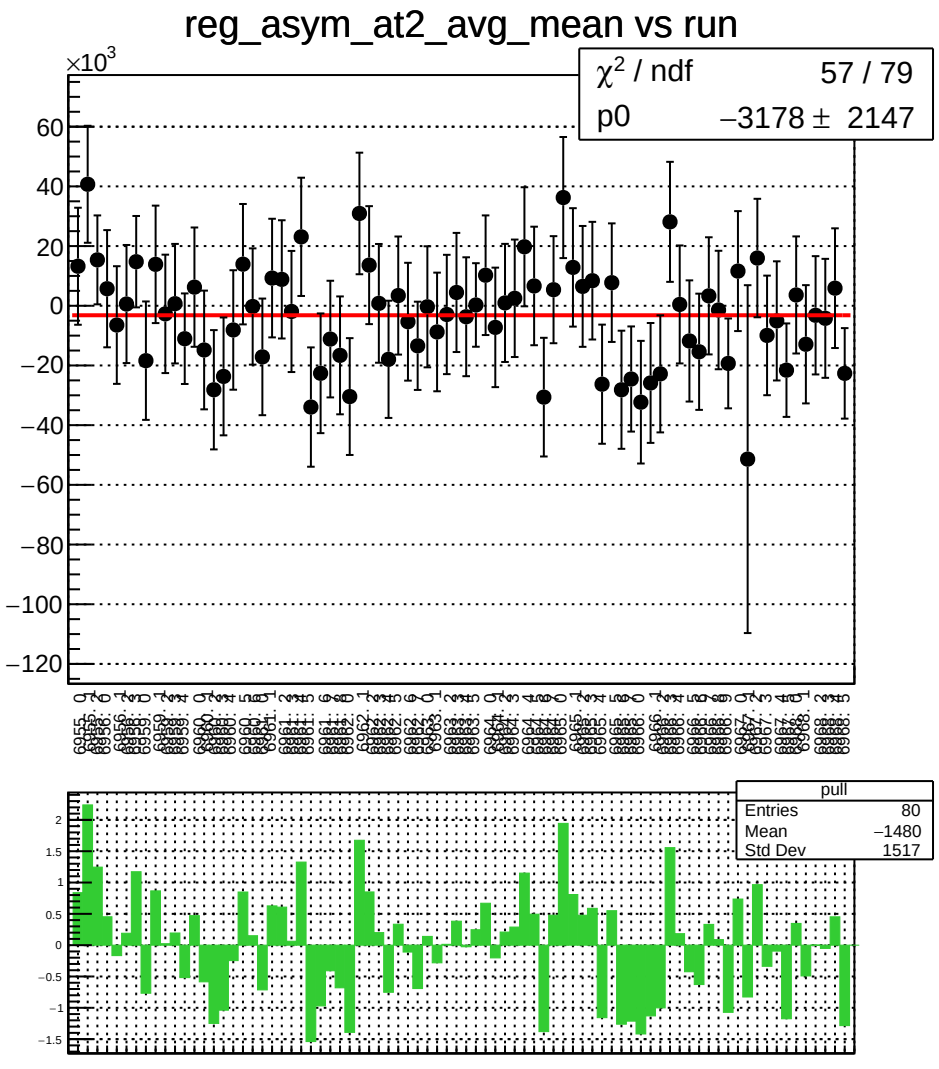

pull1D
Entries 80
Mean −0.02073
Std Dev 1.073

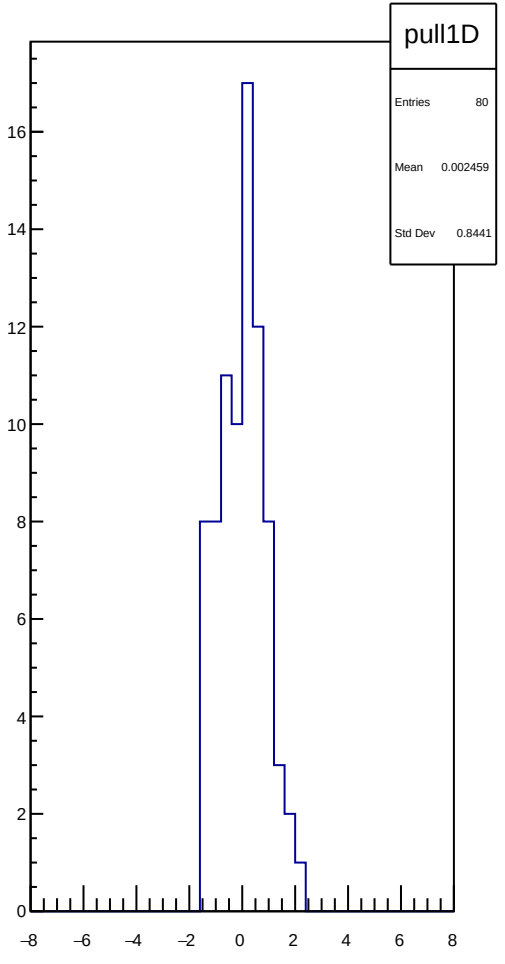

asym_at1_dd_correction_rms vs run
χ² / ndf 7825 / 79
p0 530.2 ± 0.4251
750
700
650
600
550
500
450

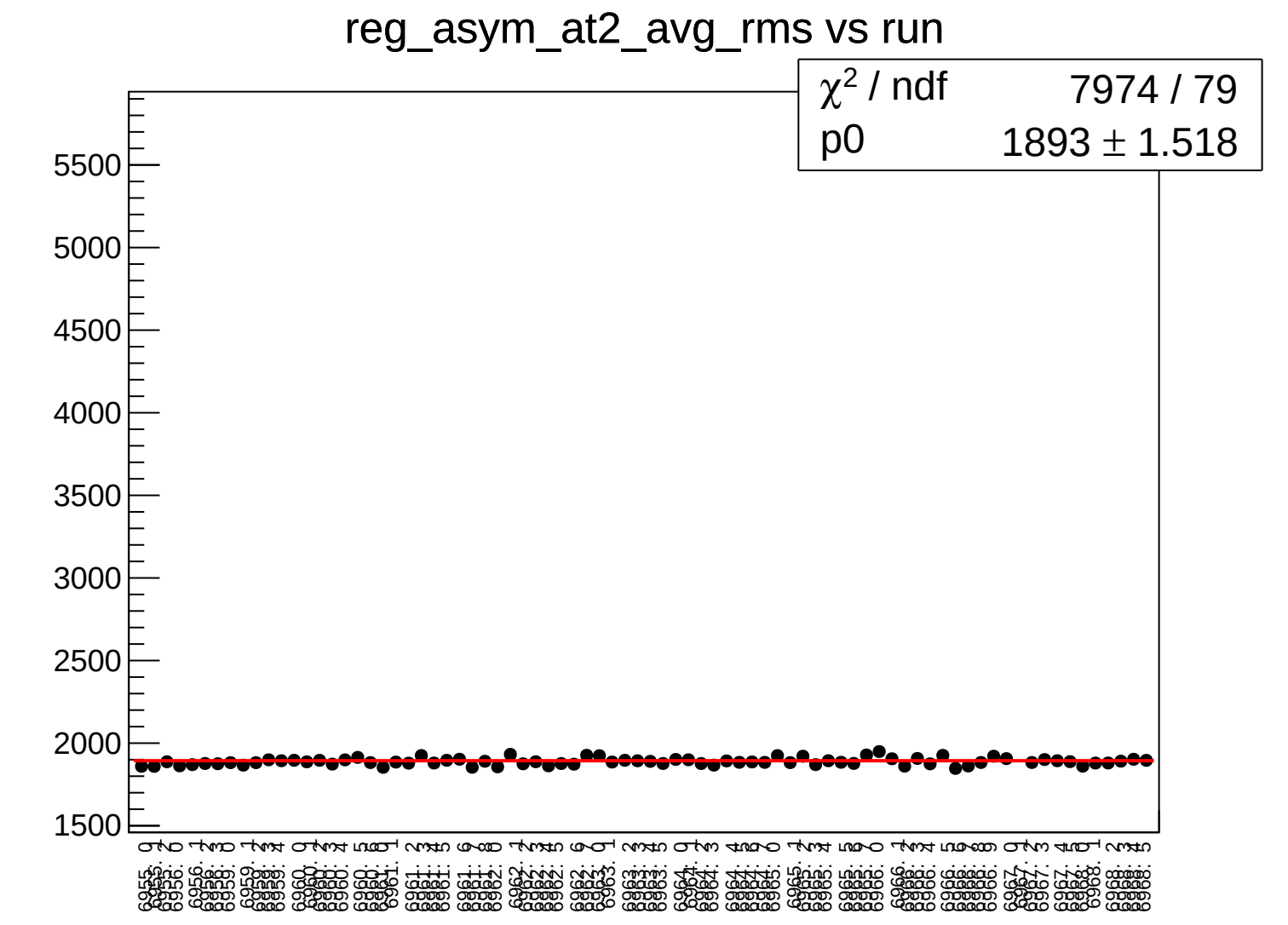

asym_at1_dd_mean vs run
χ² / ndf 96.96 / 79
p0 2331 ± 2155
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 80
Mean −1159
Std Dev 1178
2
1
0
−1
−2

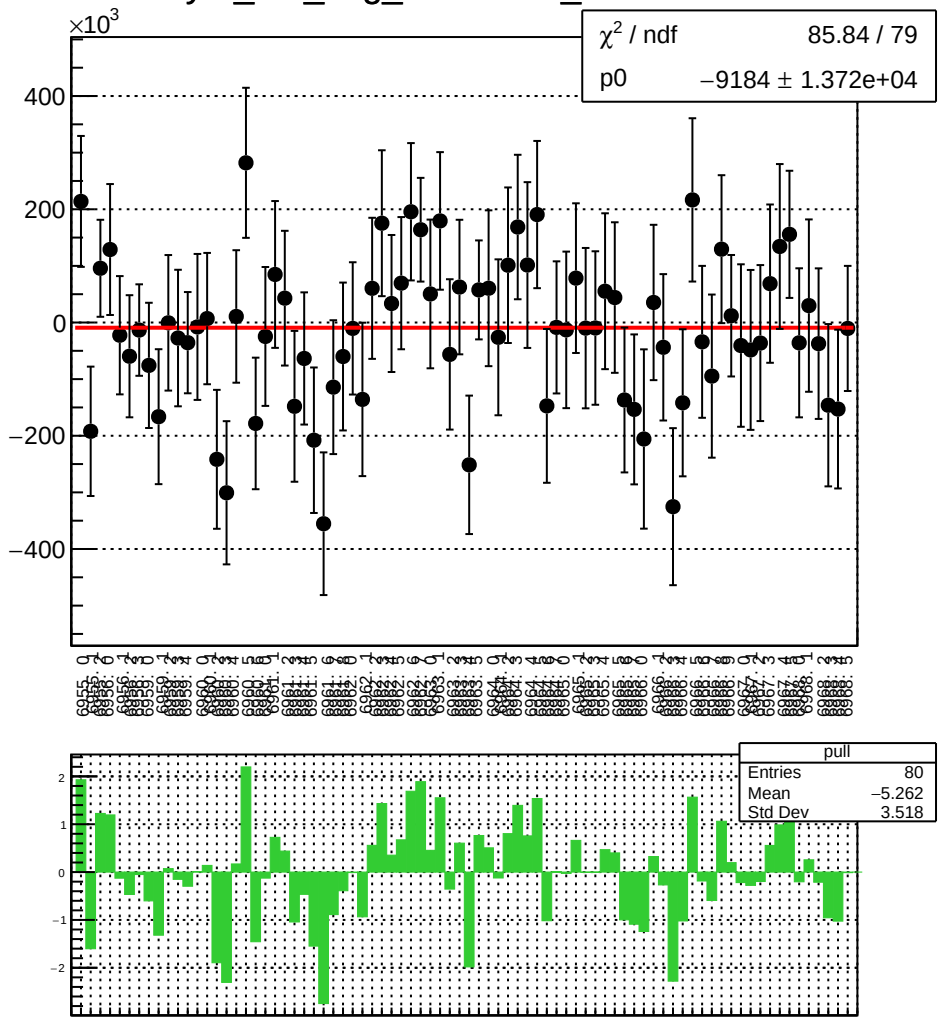

pull1D
Entries 80
Mean −0.001901
Std Dev 1.101
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

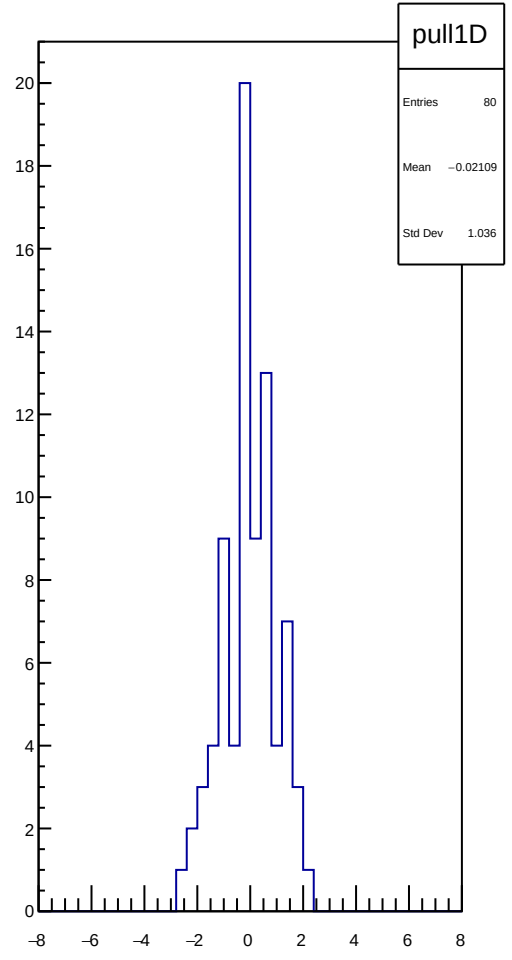

asym_at1_dd_rms vs run
χ^2 / ndf 8910 / 79
p0 1900 ± 1.524
5000
4500
4000
3500
3000
2500
2000


reg_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 57 / 79
p0 −3178 ± 2147
pull
Entries 80
Mean −1480
Std Dev 1517

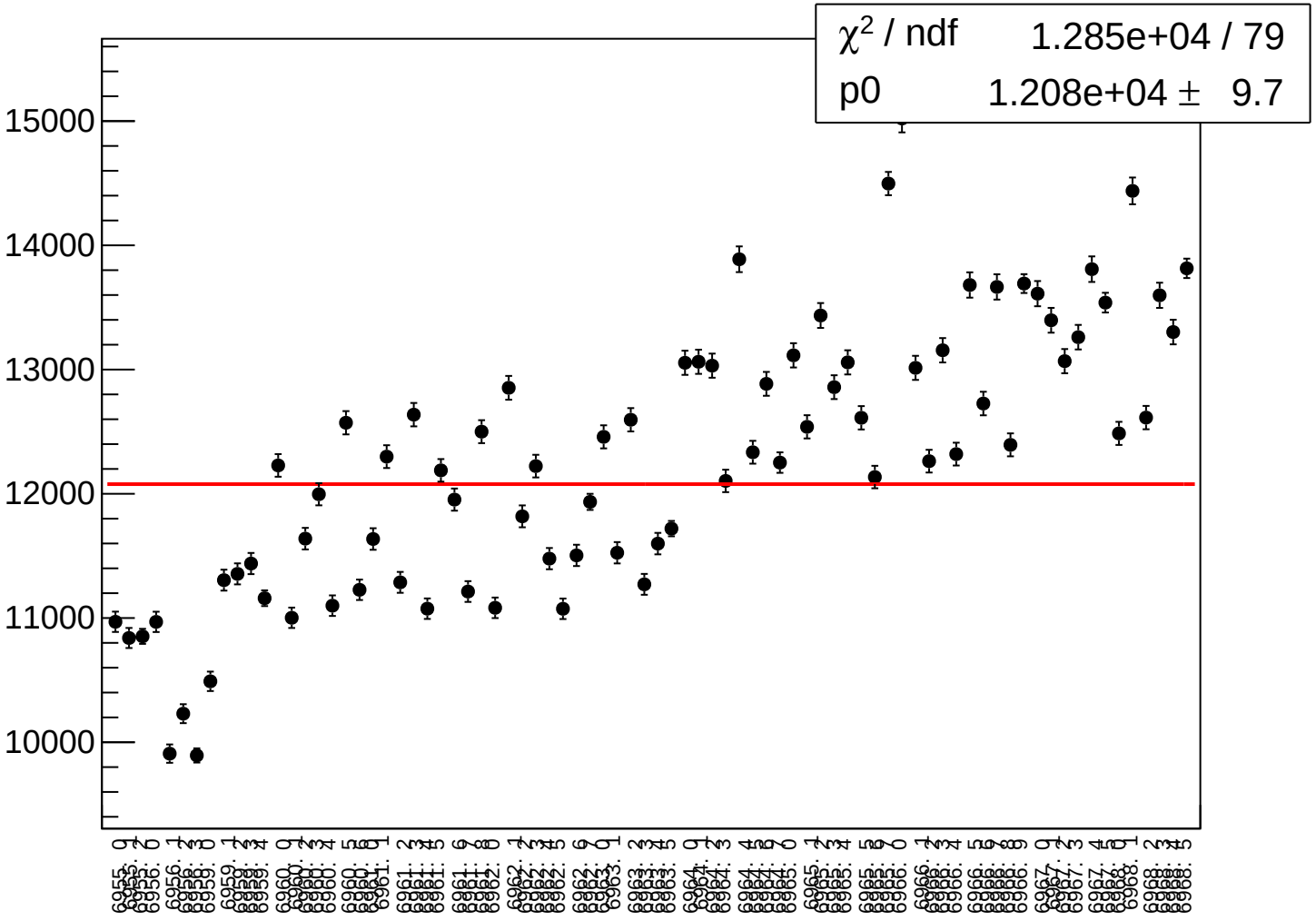

pull1D
Entries 80
Mean 0.002459
Std Dev 0.8441

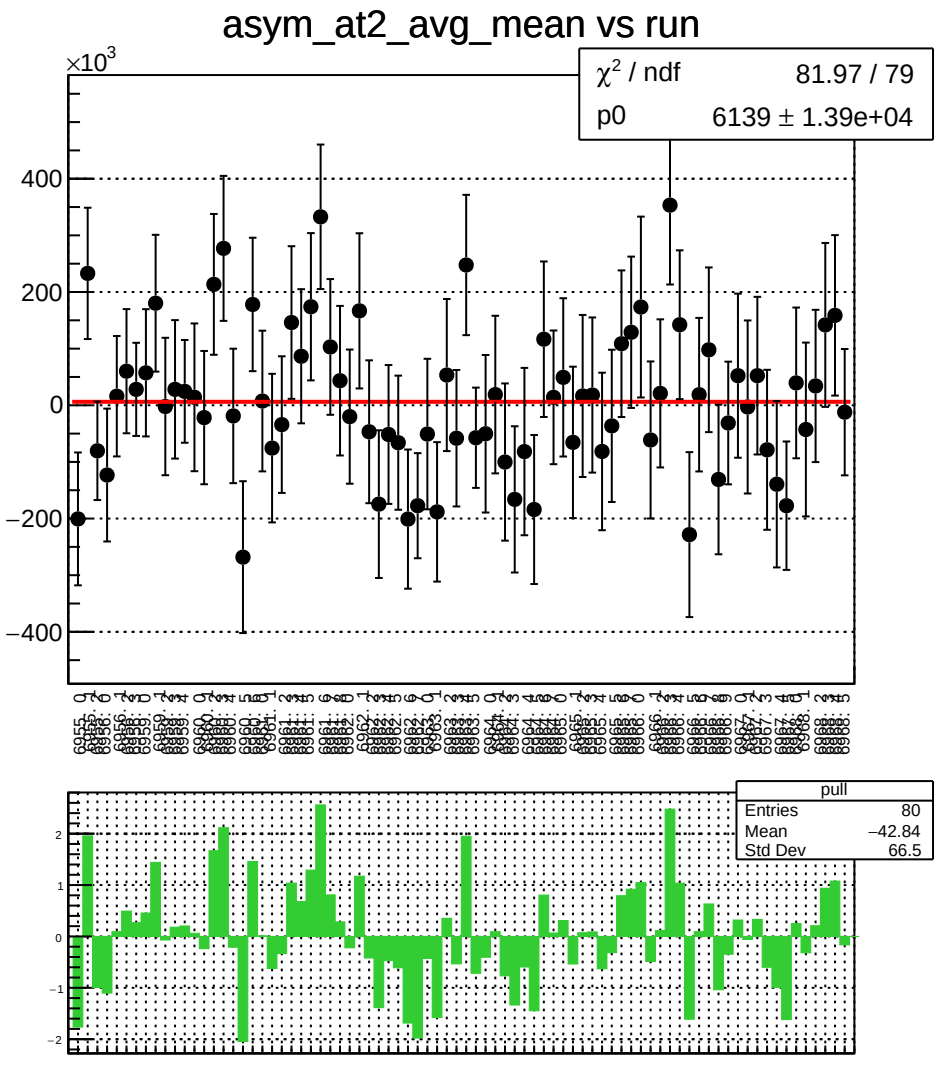

reg_asym_at2_avg_rms vs run
χ^2 / ndf 7974 / 79
p0 1893 ± 1.518
5500
5000
4500
4000
3500
3000
2500
2000
1500

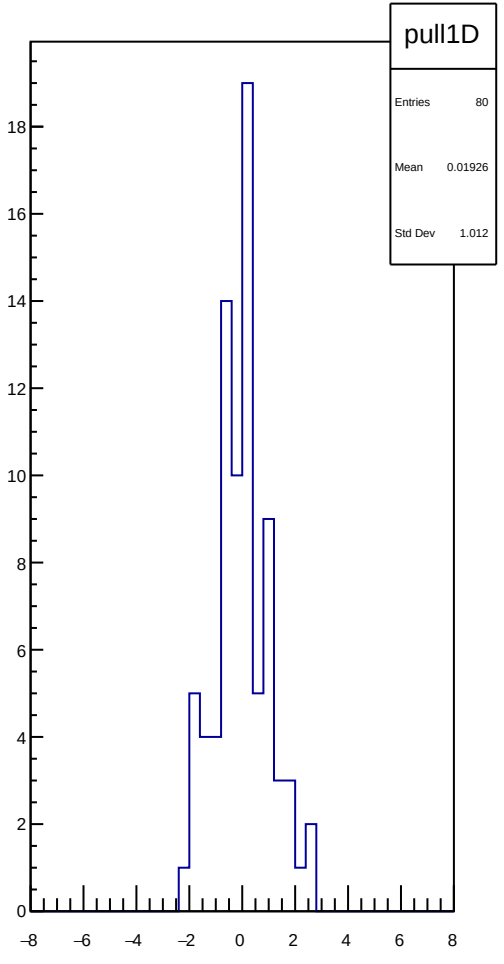

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 85.84 / 79
p0 −9184 ± 1.372e+04
400
200
0
−200
−400
pull
Entries 80
Mean −5.262
Std Dev 3.518
2
1
0
−1
−2

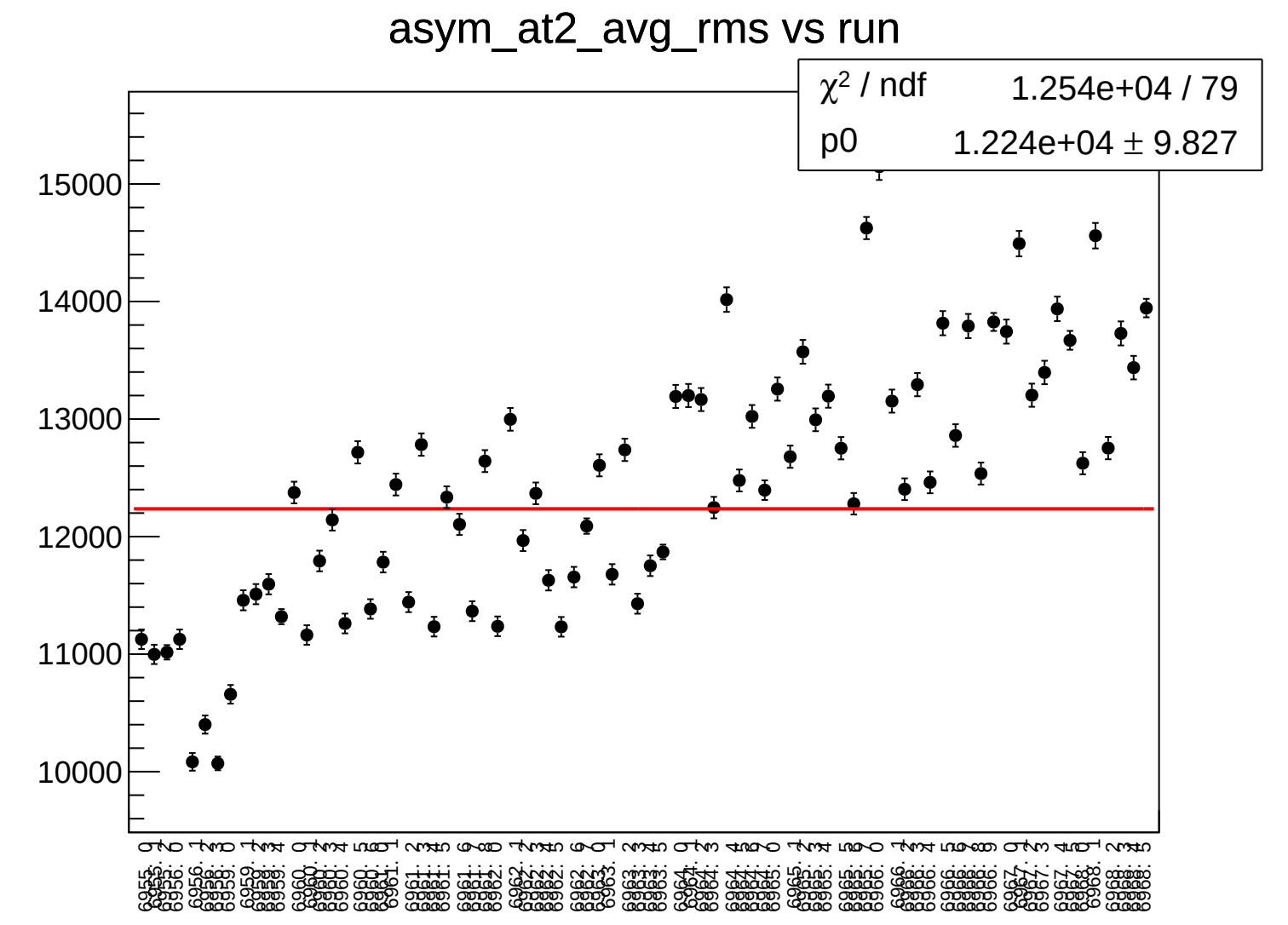

pull1D
Entries 80
Mean −0.02109
Std Dev 1.036
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

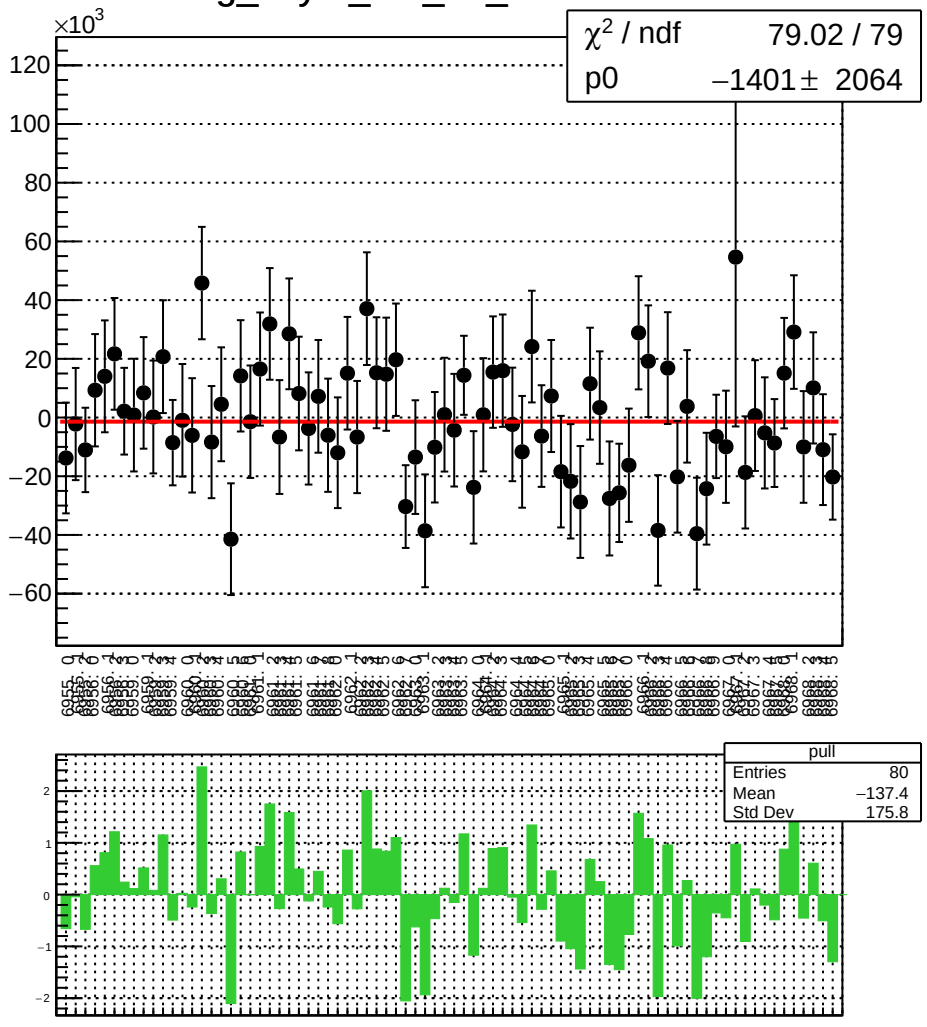
asym_at2_avg_correction_rms vs run

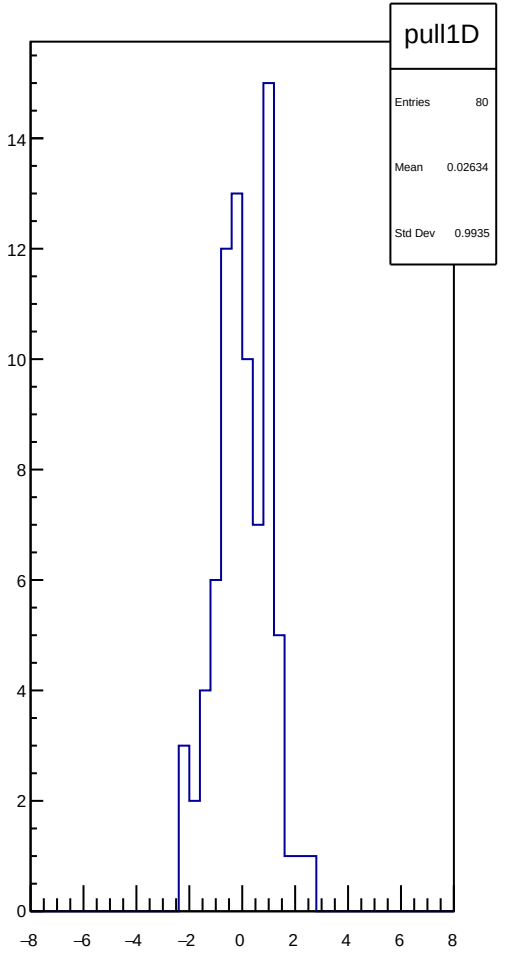


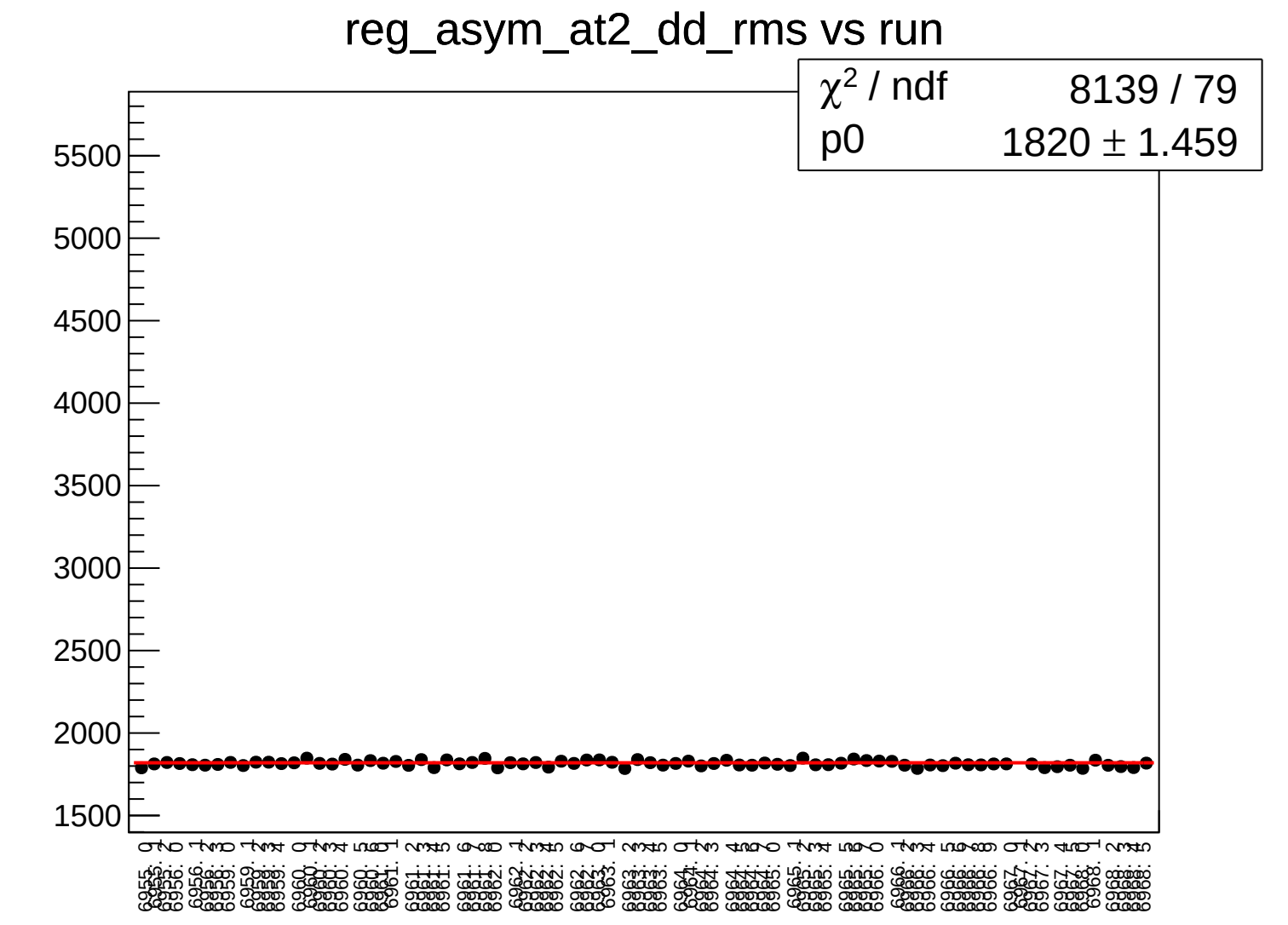

asym_at2_avg_mean vs run
×10^3
χ² / ndf 81.97 / 79
p0 6139 ± 1.39e+04
400
200
0
−200
−400
pull
Entries 80
Mean −42.84
Std Dev 66.5
2
1
0
−1
−2

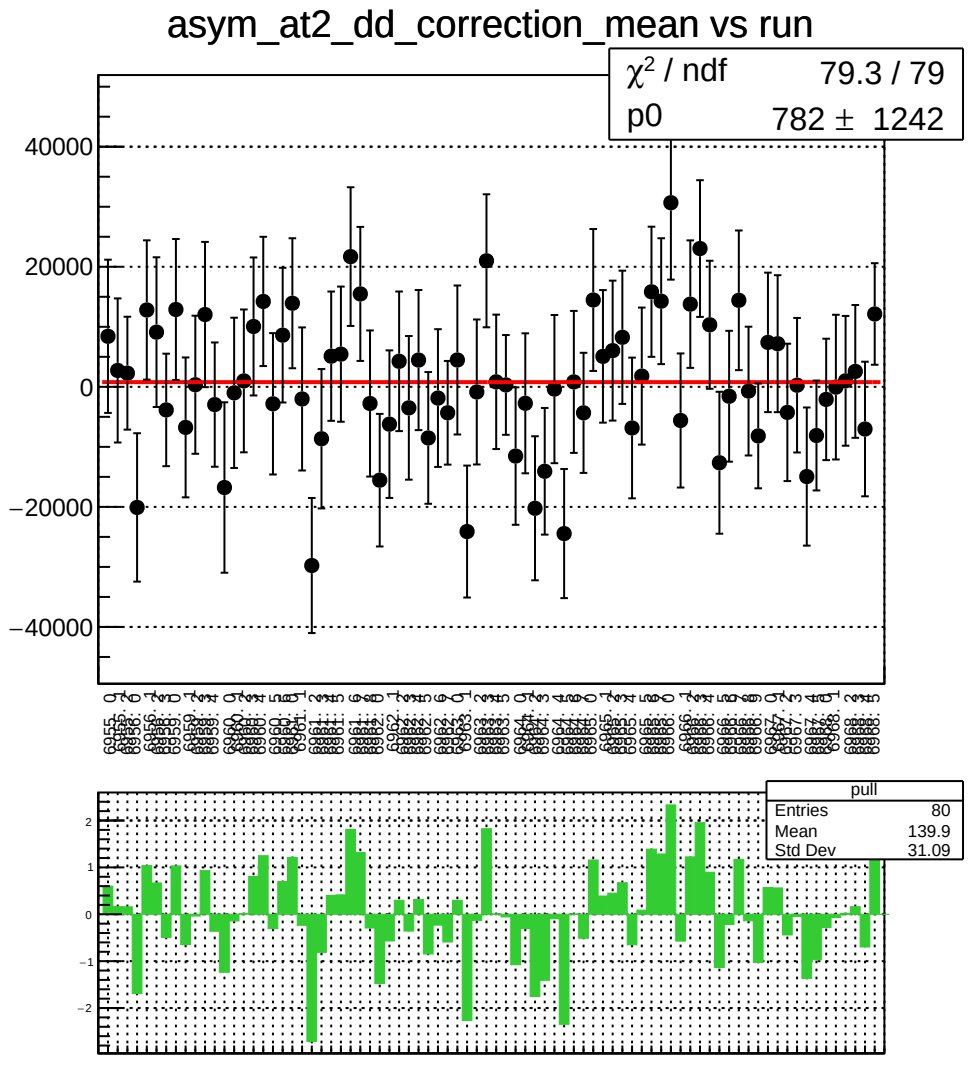

pull1D
Entries 80
Mean 0.01926
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

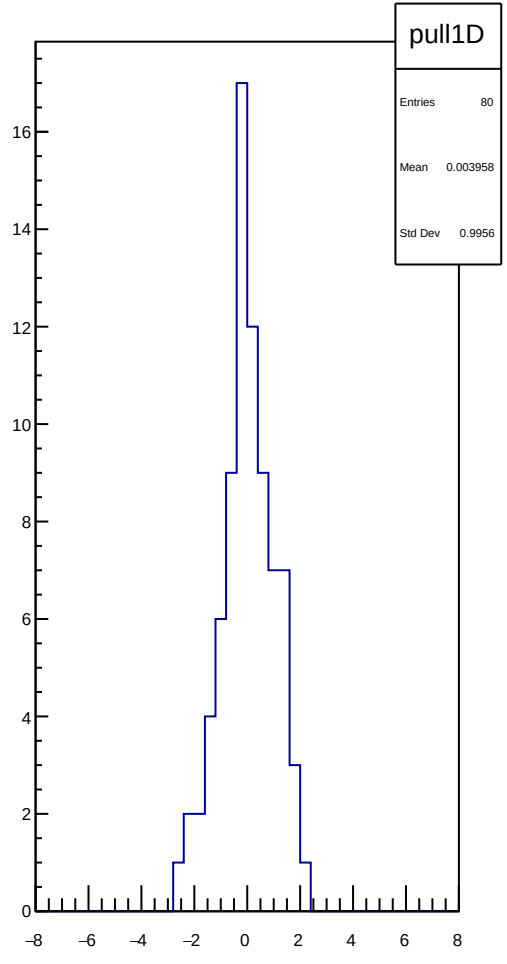

asym_at2_avg_rms vs run
χ² / ndf 1.254e+04 / 79
p0 1.224e+04 ± 9.827
15000
14000
13000
12000
11000
10000

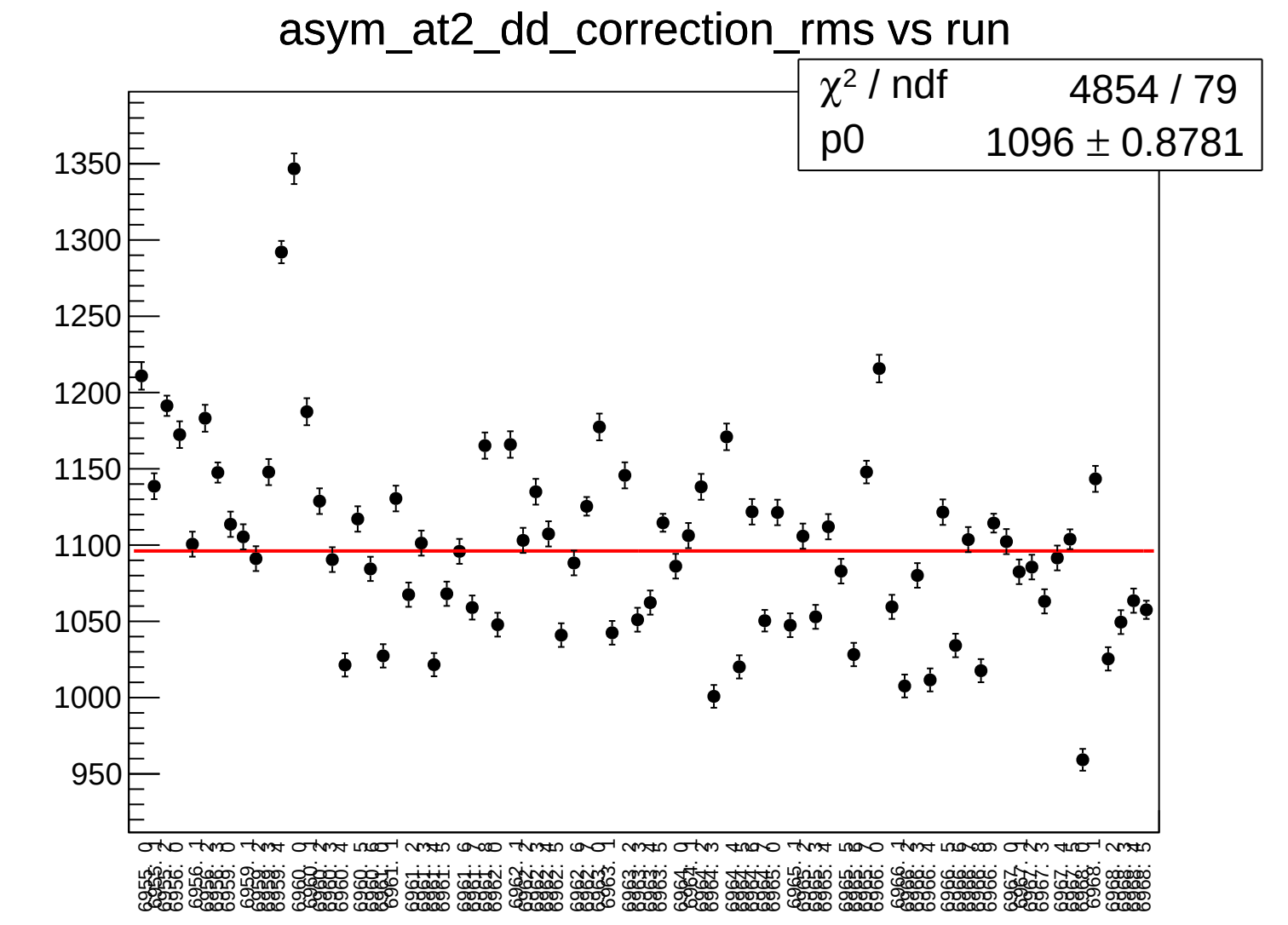

reg_asym_at2_dd_mean vs run
×10^3
χ² / ndf 79.02 / 79
p0 −1401 ± 2064
pull
Entries 80
Mean −137.4
Std Dev 175.8

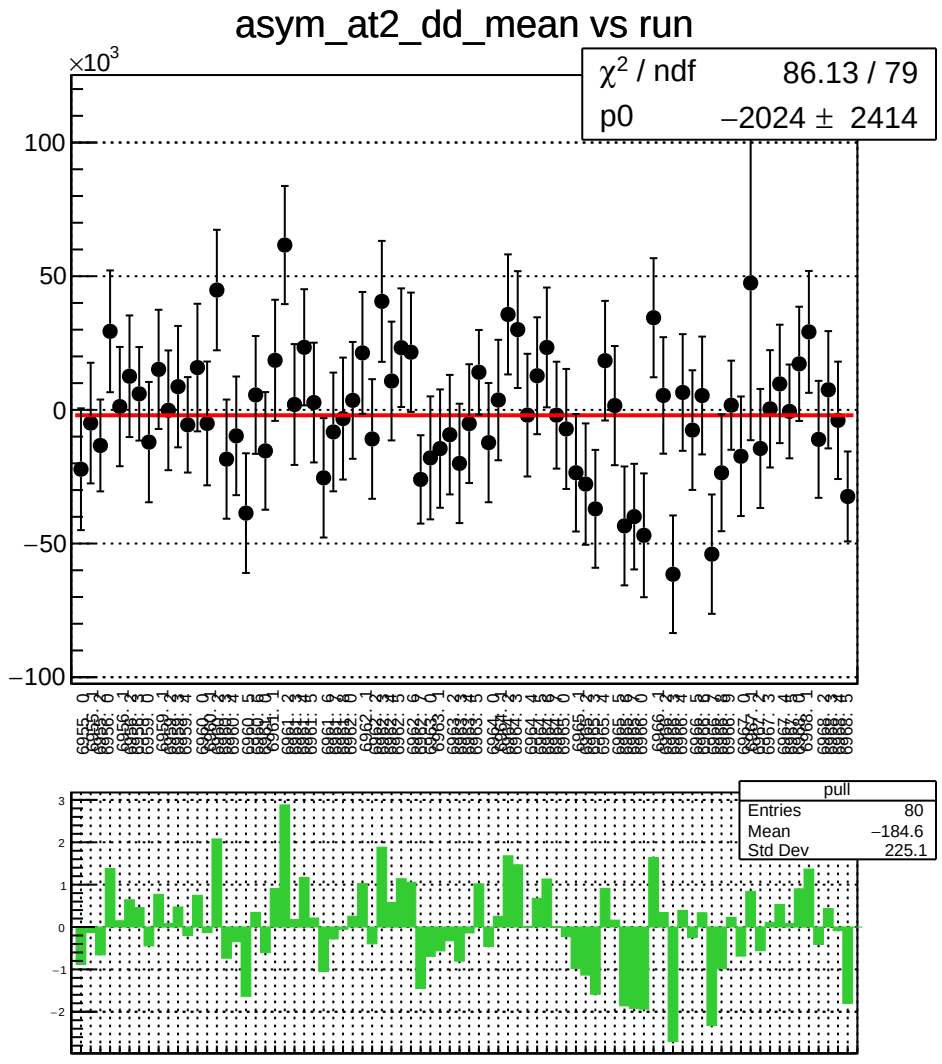

pull1D
Entries 80
Mean 0.02634
Std Dev 0.9935

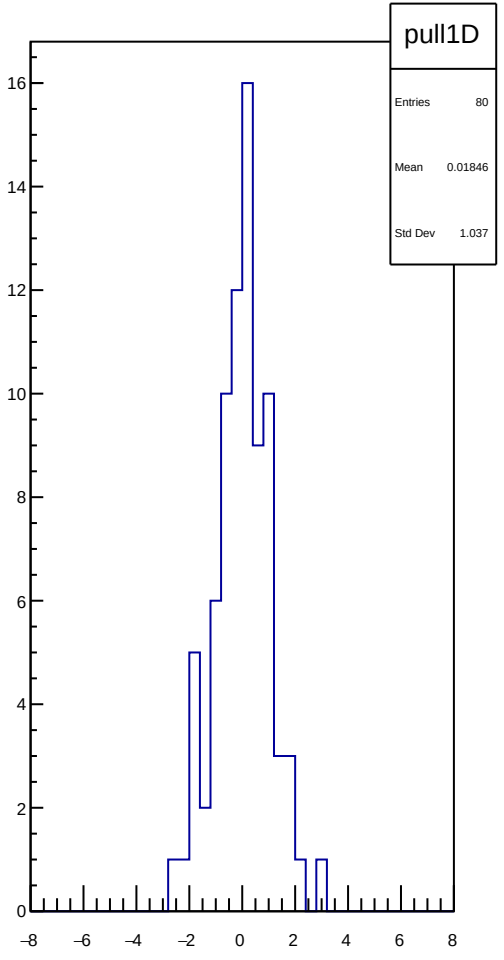

reg_asym_at2_dd_rms vs run
χ^2 / ndf 8139 / 79
p0 1820 ± 1.459
5500
5000
4500
4000
3500
3000
2500
2000
1500

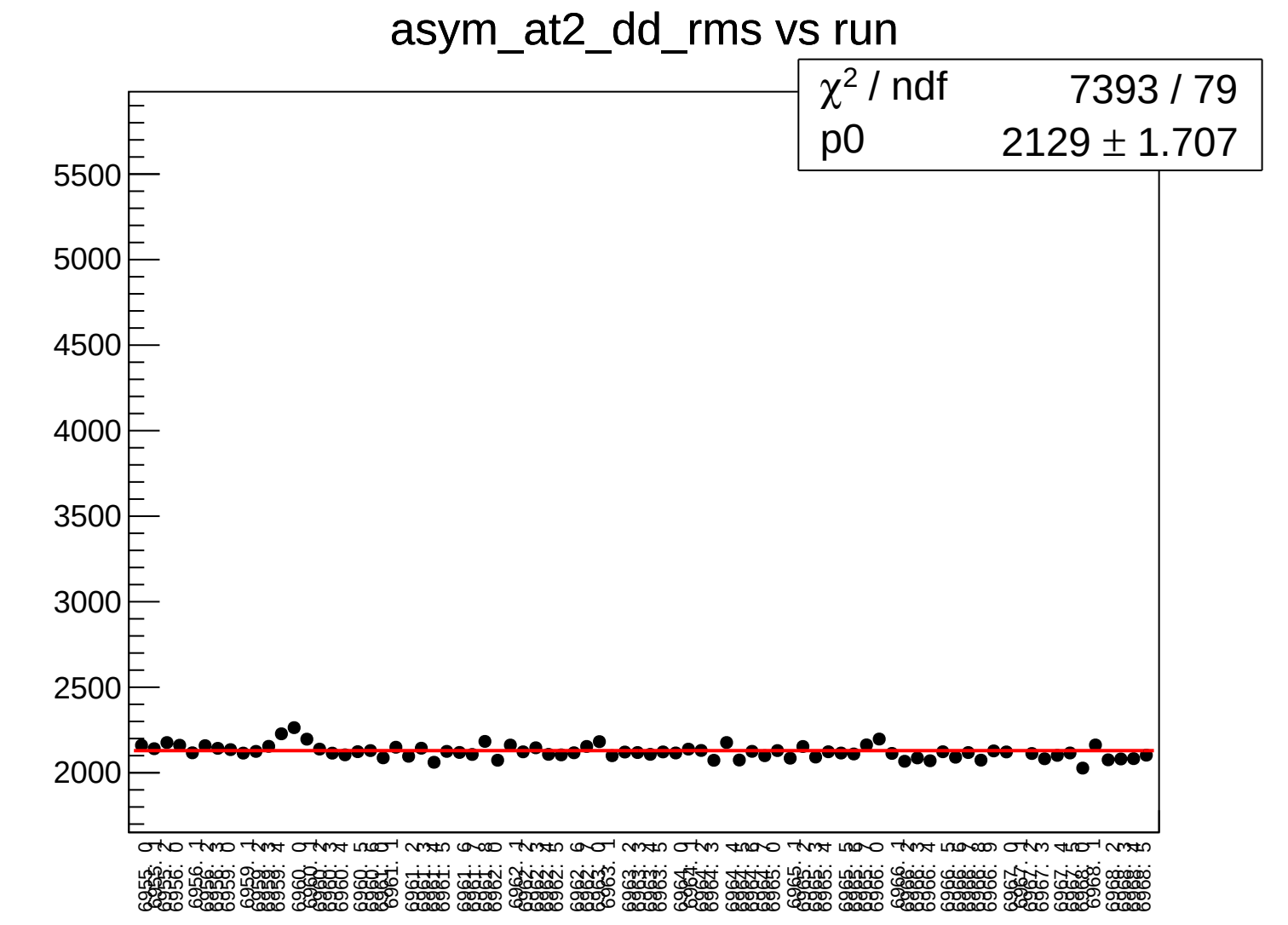

asym_at2_dd_correction_mean vs run
χ² / ndf 79.3 / 79
p0 782 ± 1242
40000
20000
0
−20000
−40000
pull
Entries 80
Mean 139.9
Std Dev 31.09
2
1
0
−1
−2

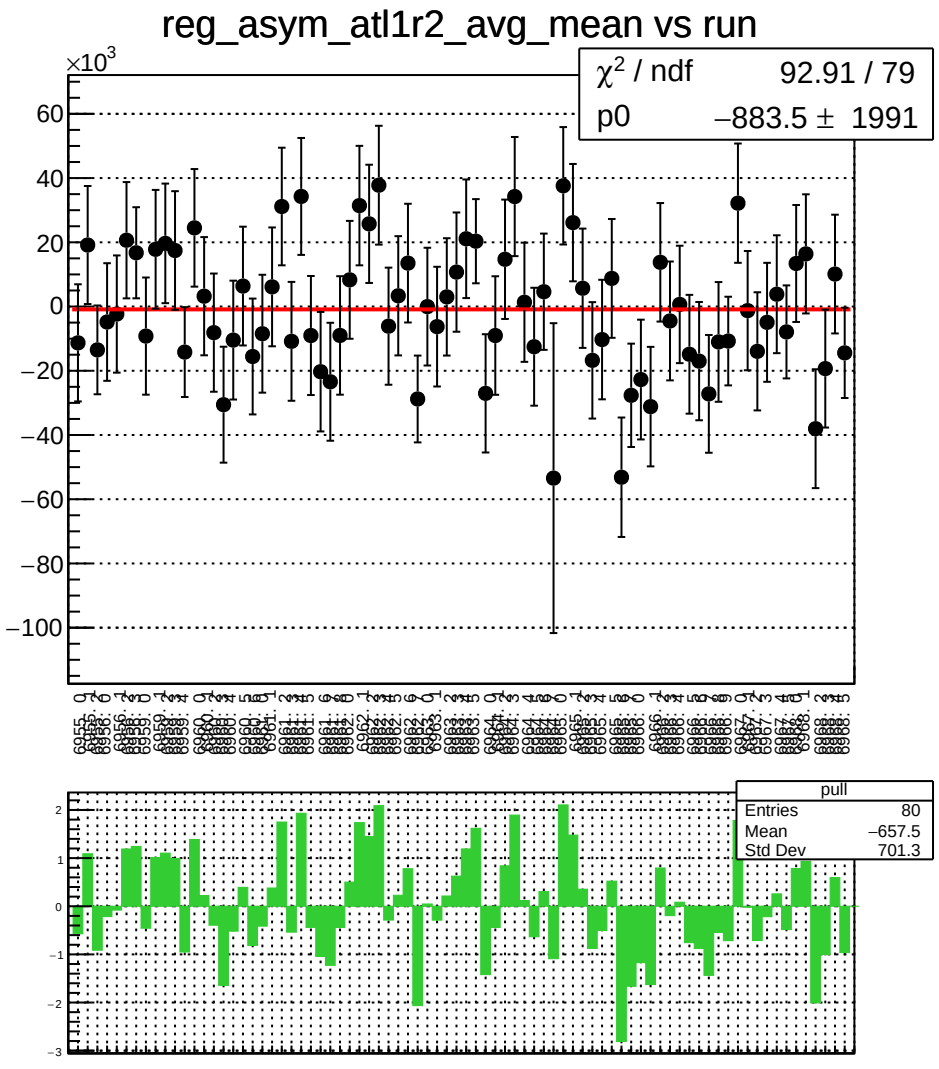

pull1D
Entries 80
Mean 0.003958
Std Dev 0.9956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

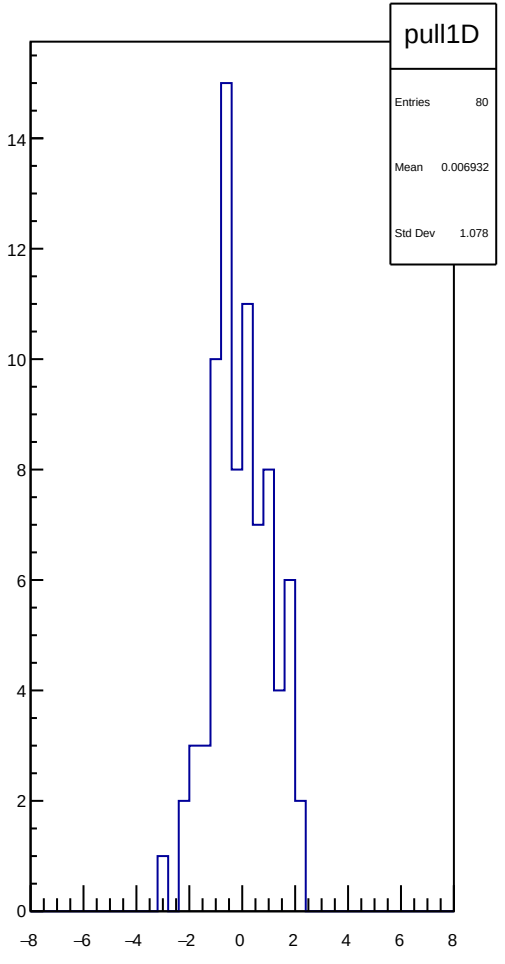

asym_at2_dd_correction_rms vs run
χ² / ndf 4854 / 79
p0 1096 ± 0.8781
1350
1300
1250
1200
1150
1100
1050
1000
950

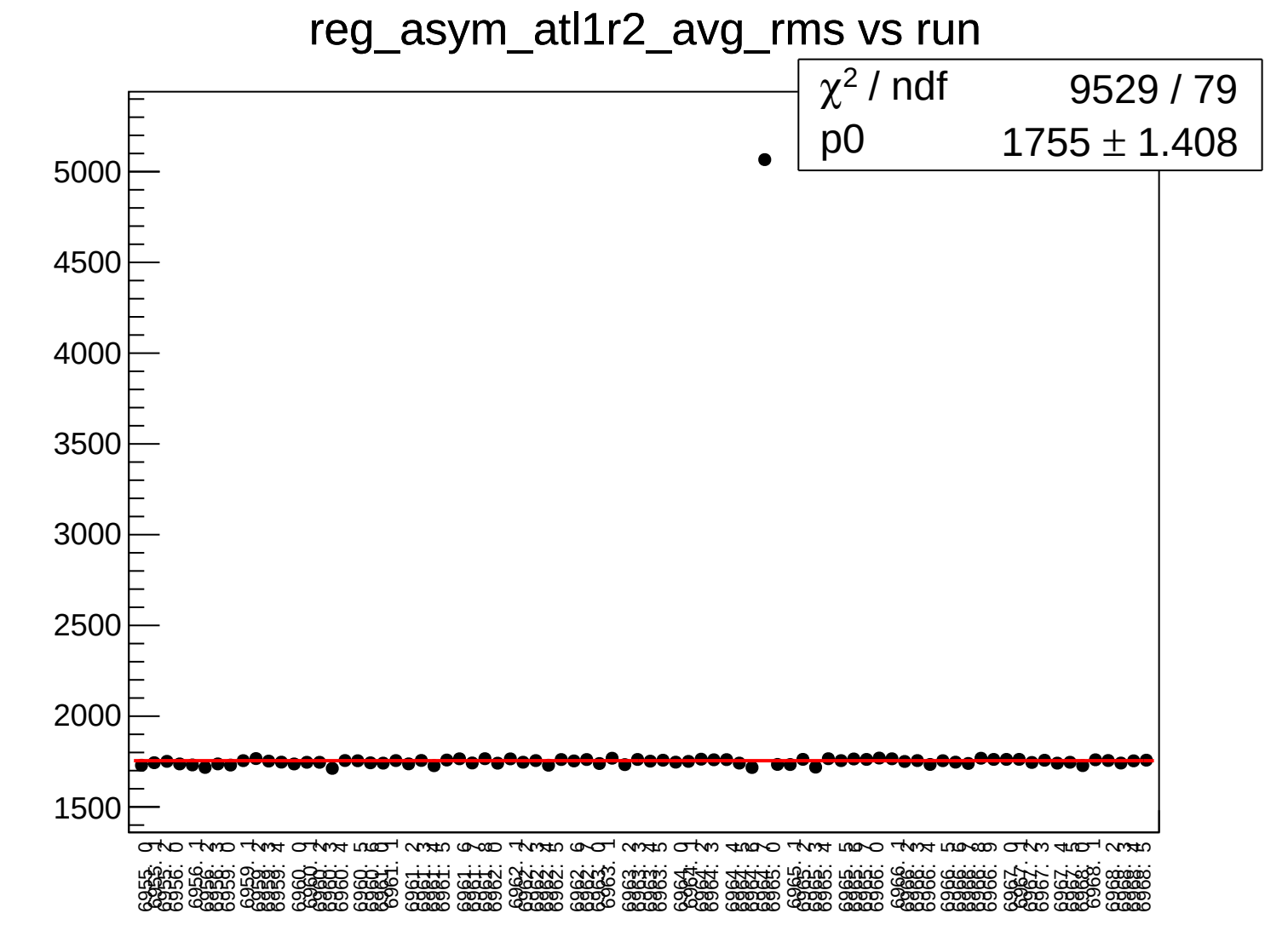

asym_at2_dd_mean vs run
×10^3
χ² / ndf 86.13 / 79
p0 −2024 ± 2414
100
50
0
−50
−100
pull
Entries 80
Mean −184.6
Std Dev 225.1
3
2
1
0
−1
−2

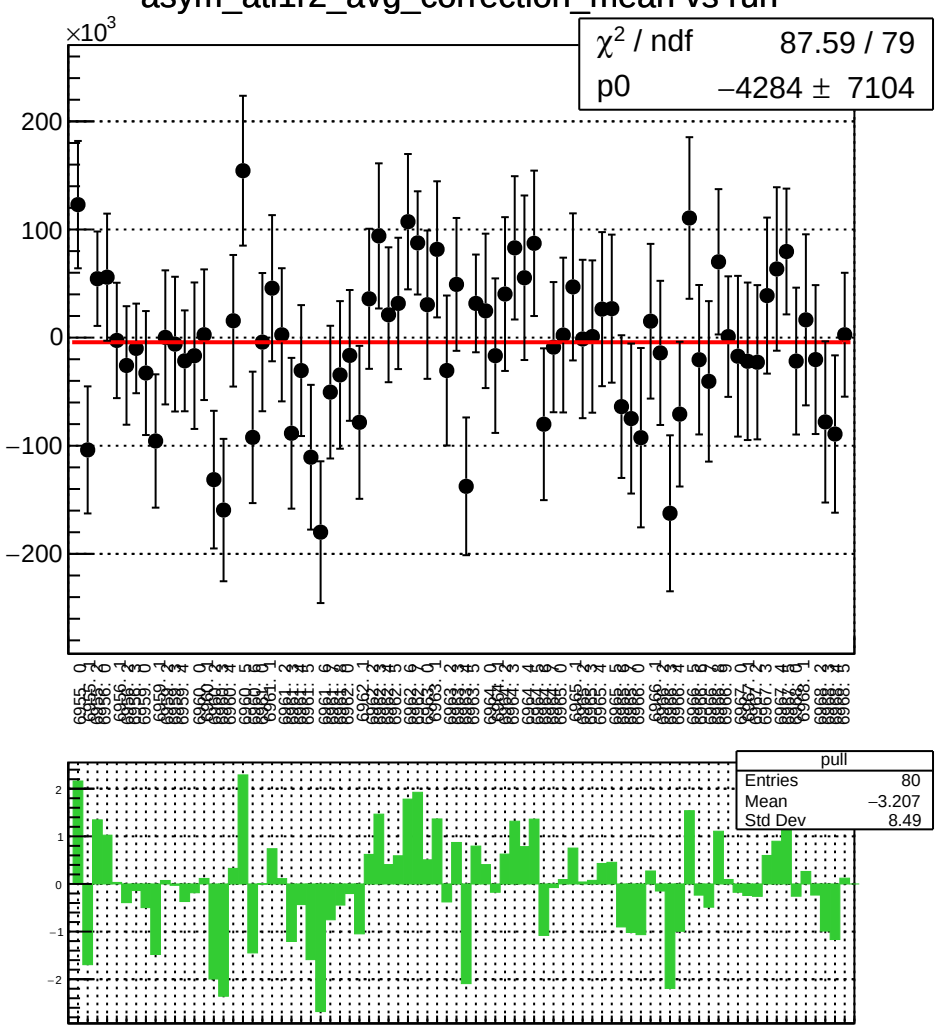

pull1D
Entries 80
Mean 0.01846
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

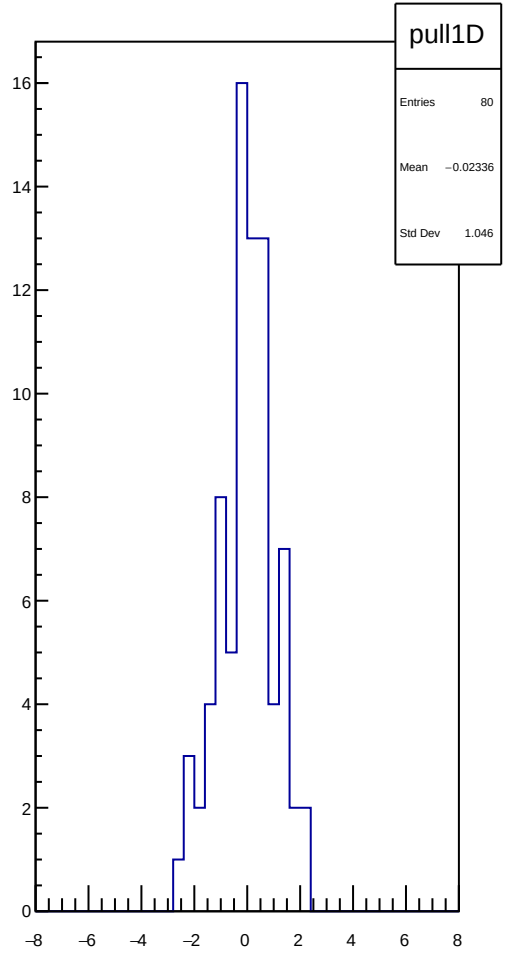

asym_at2_dd_rms vs run
χ^2 / ndf 7393 / 79
p0 2129 ± 1.707
5500
5000
4500
4000
3500
3000
2500
2000

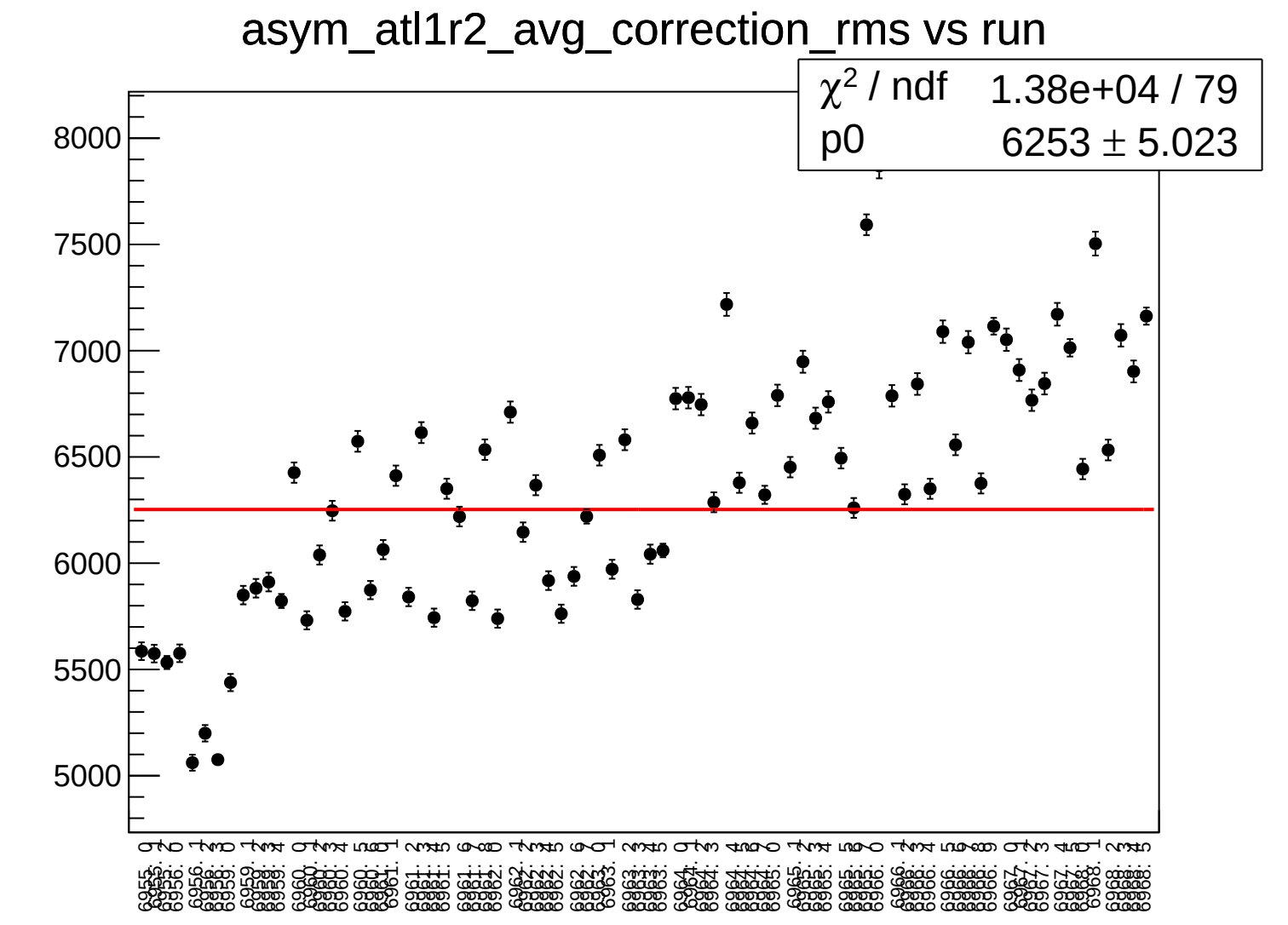

reg_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 92.91 / 79
p0 −883.5 ± 1991
pull
Entries 80
Mean −657.5
Std Dev 701.3

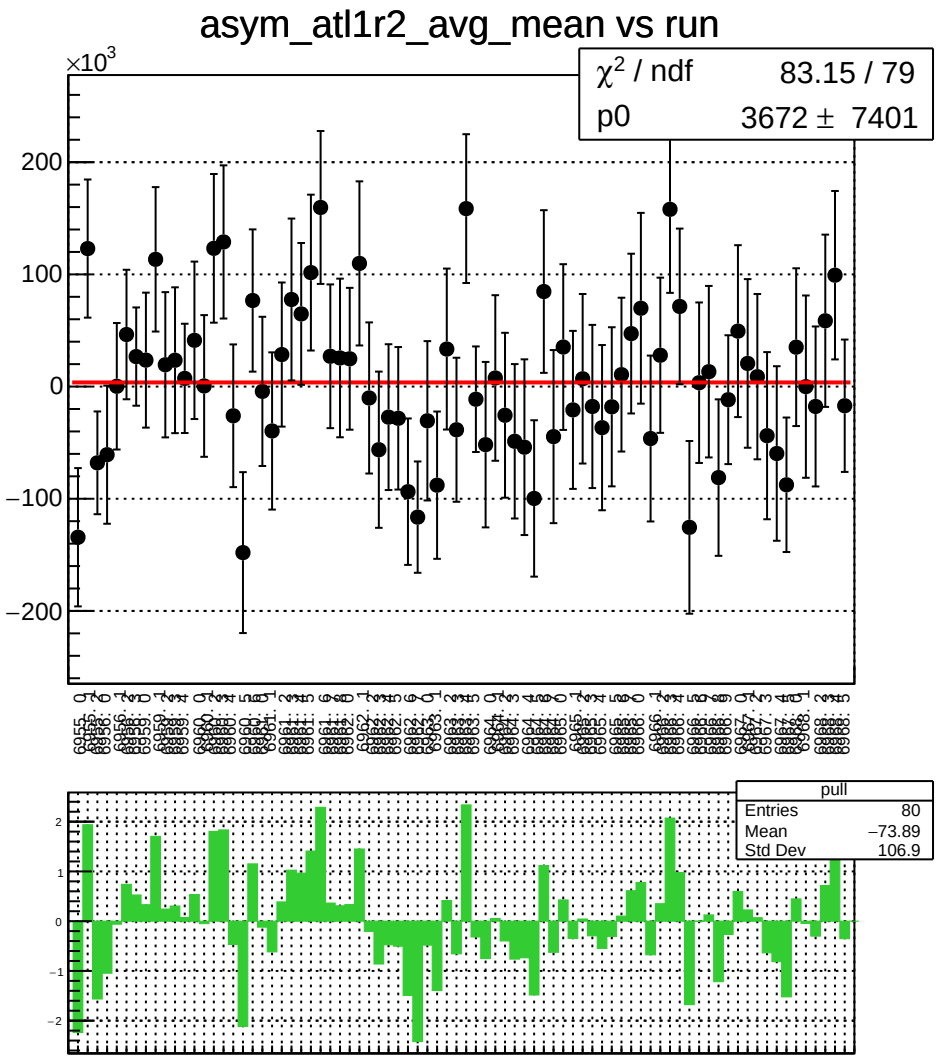

pull1D
Entries 80
Mean 0.006932
Std Dev 1.078

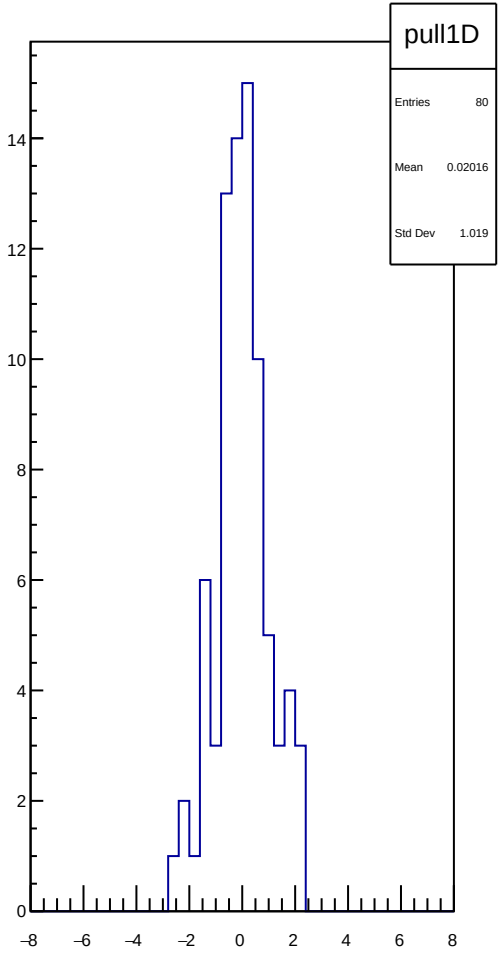

reg_asym_atl1r2_avg_rms vs run
χ^2 / ndf 9529 / 79
p0 1755 ± 1.408
5000
4500
4000
3500
3000
2500
2000
1500

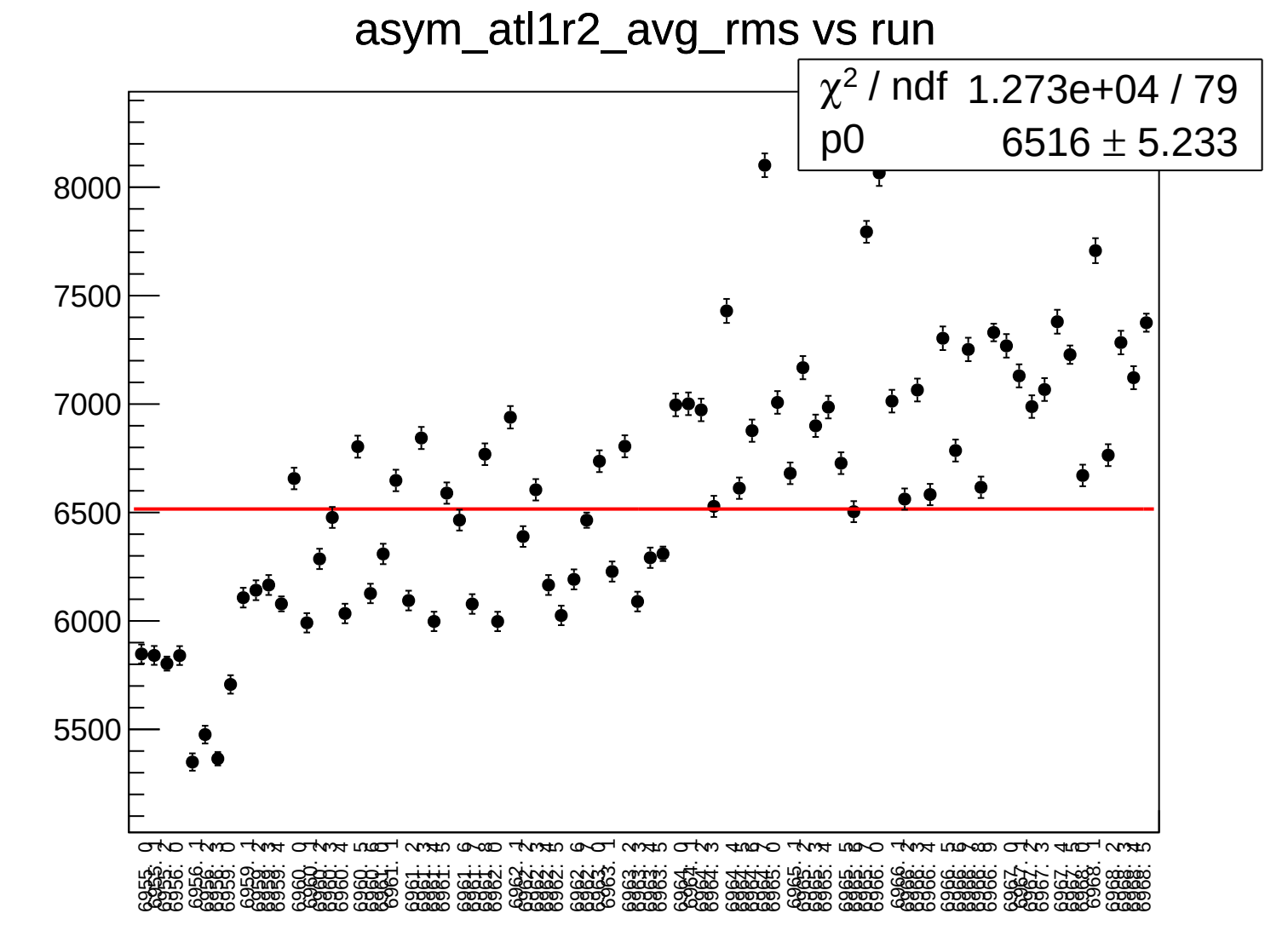

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 87.59 / 79
p0 −4284 ± 7104
200
100
0
−100
−200
pull
Entries 80
Mean −3.207
Std Dev 8.49
2
1
0
−1
−2

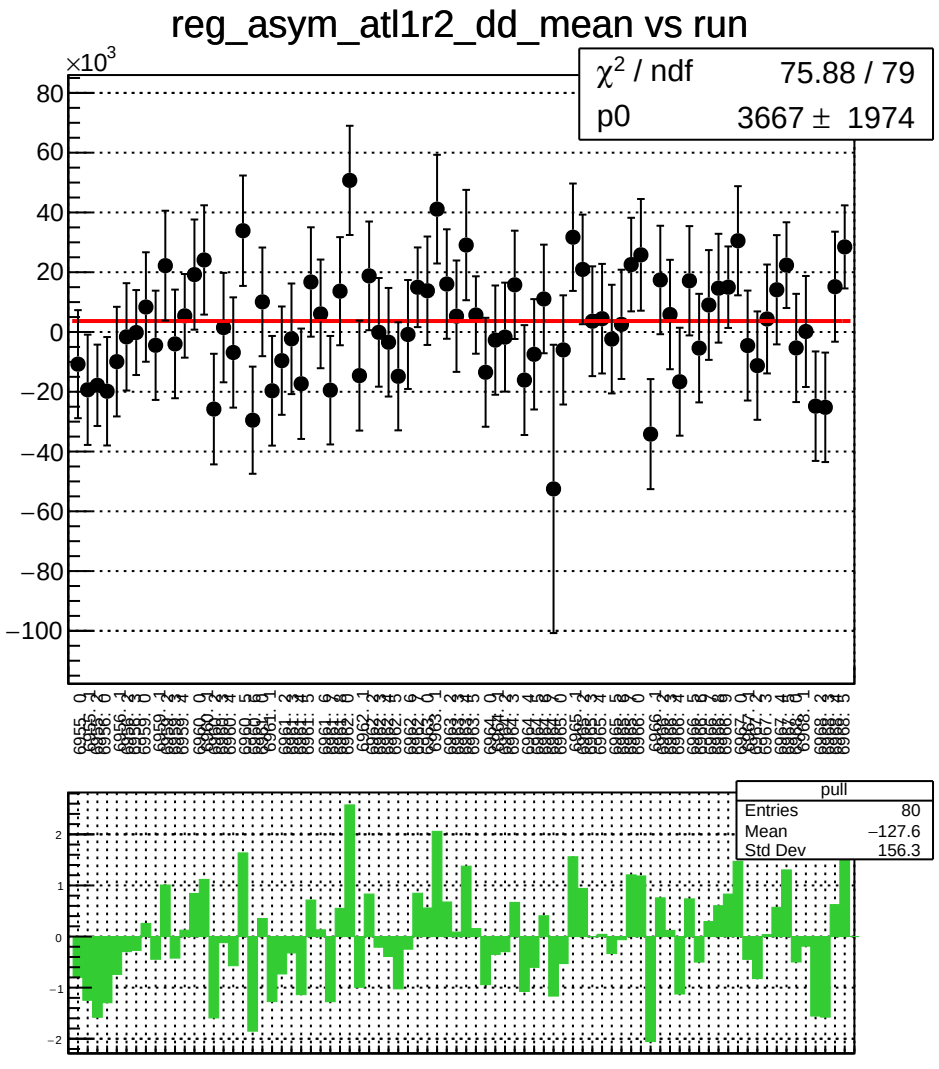

pull1D
Entries 80
Mean −0.02336
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

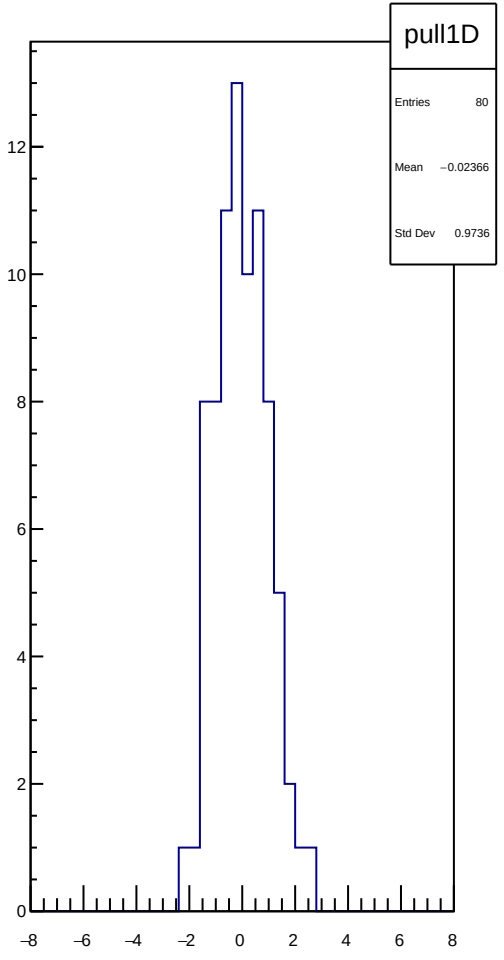

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 1.38e+04 / 79
p0 6253 ± 5.023
8000
7500
7000
6500
6000
5500
5000

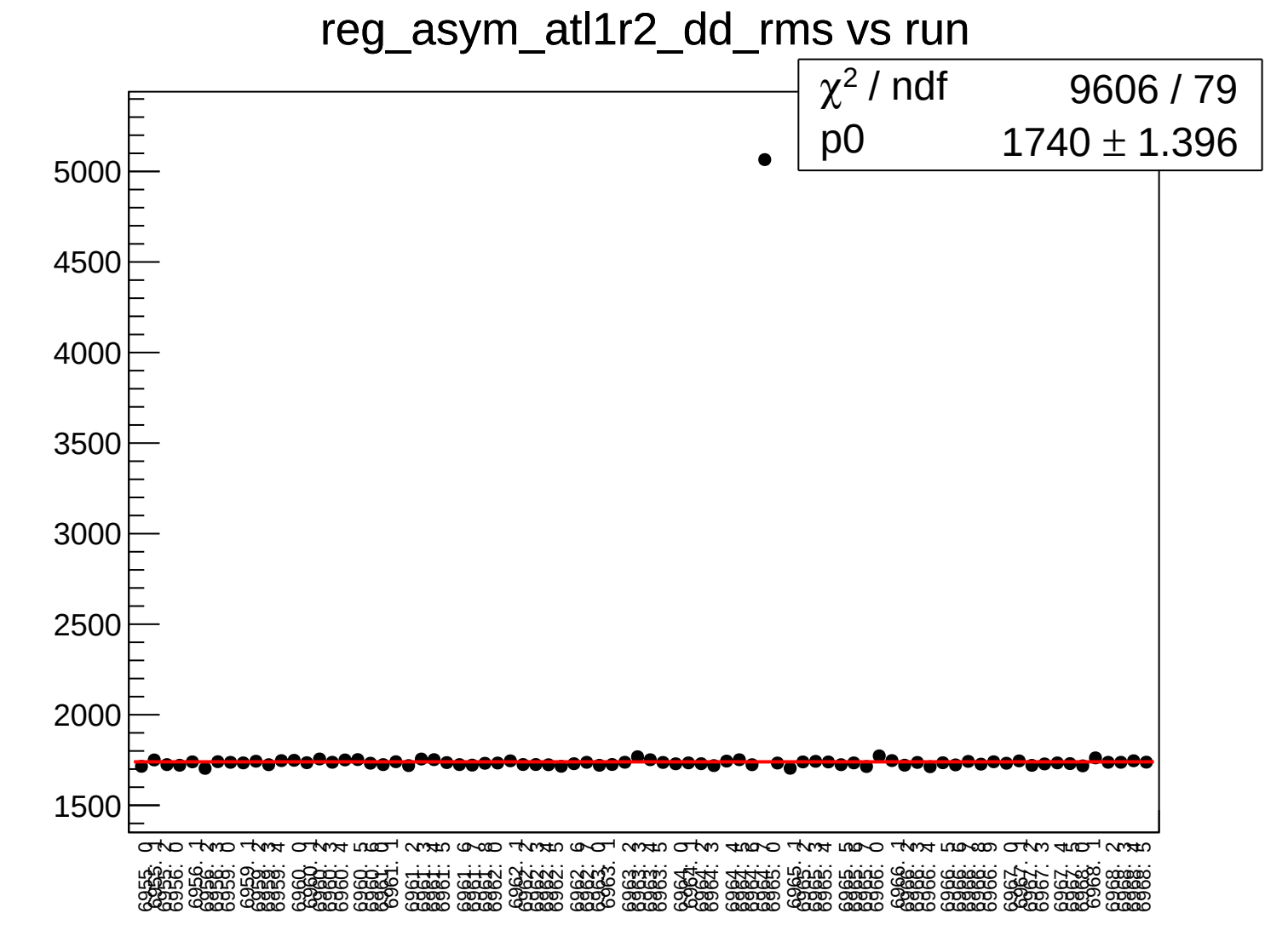

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 83.15 / 79
p0 3672 ± 7401
200
100
0
−100
−200
pull
Entries 80
Mean −73.89
Std Dev 106.9
2
1
0
−1
−2

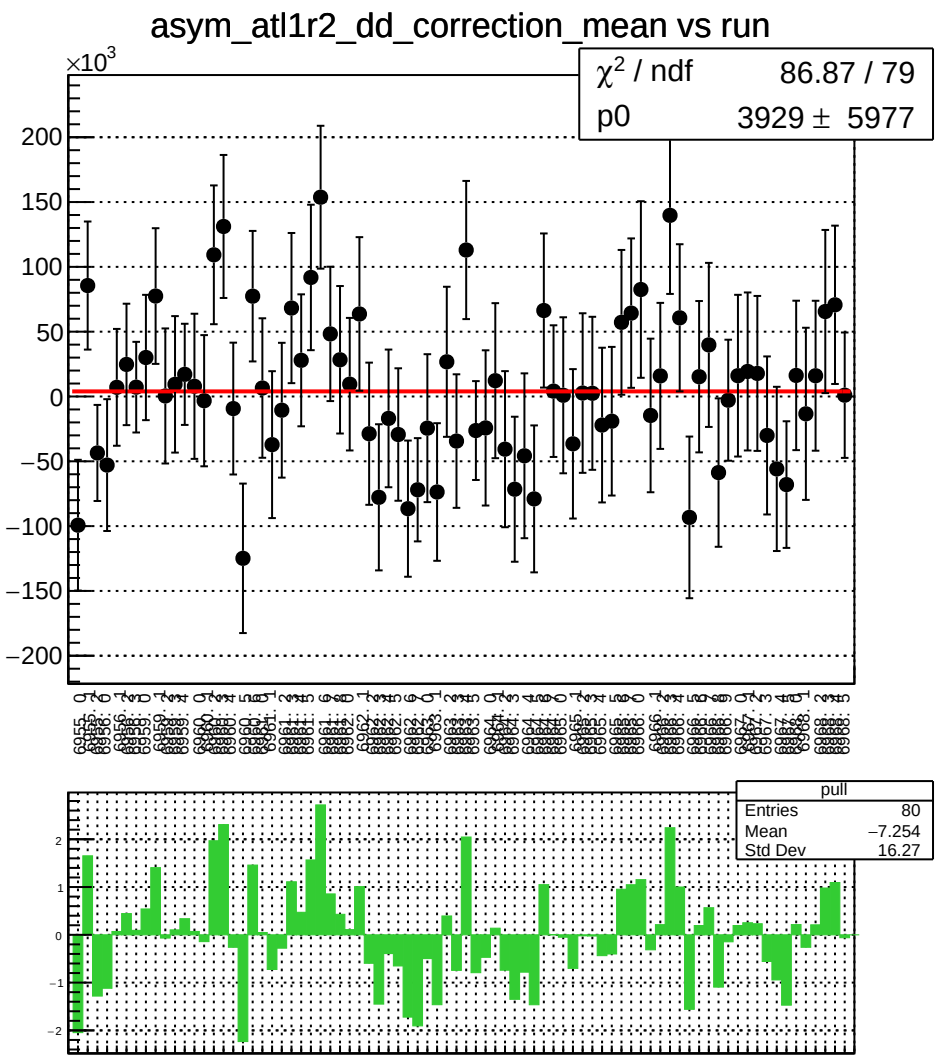

pull1D
Entries 80
Mean 0.02016
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

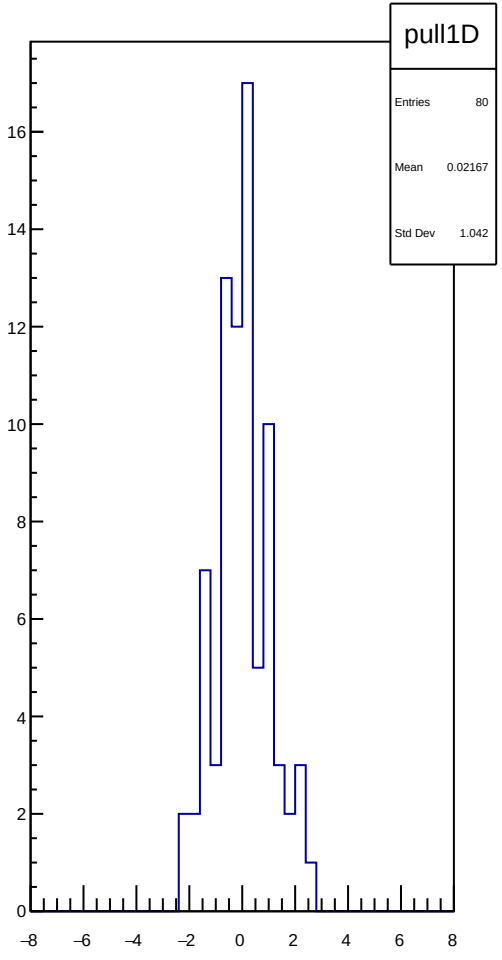

asym_atl1r2_avg_rms vs run
χ² / ndf 1.273e+04 / 79
p0 6516 ± 5.233
8000
7500
7000
6500
6000
5500

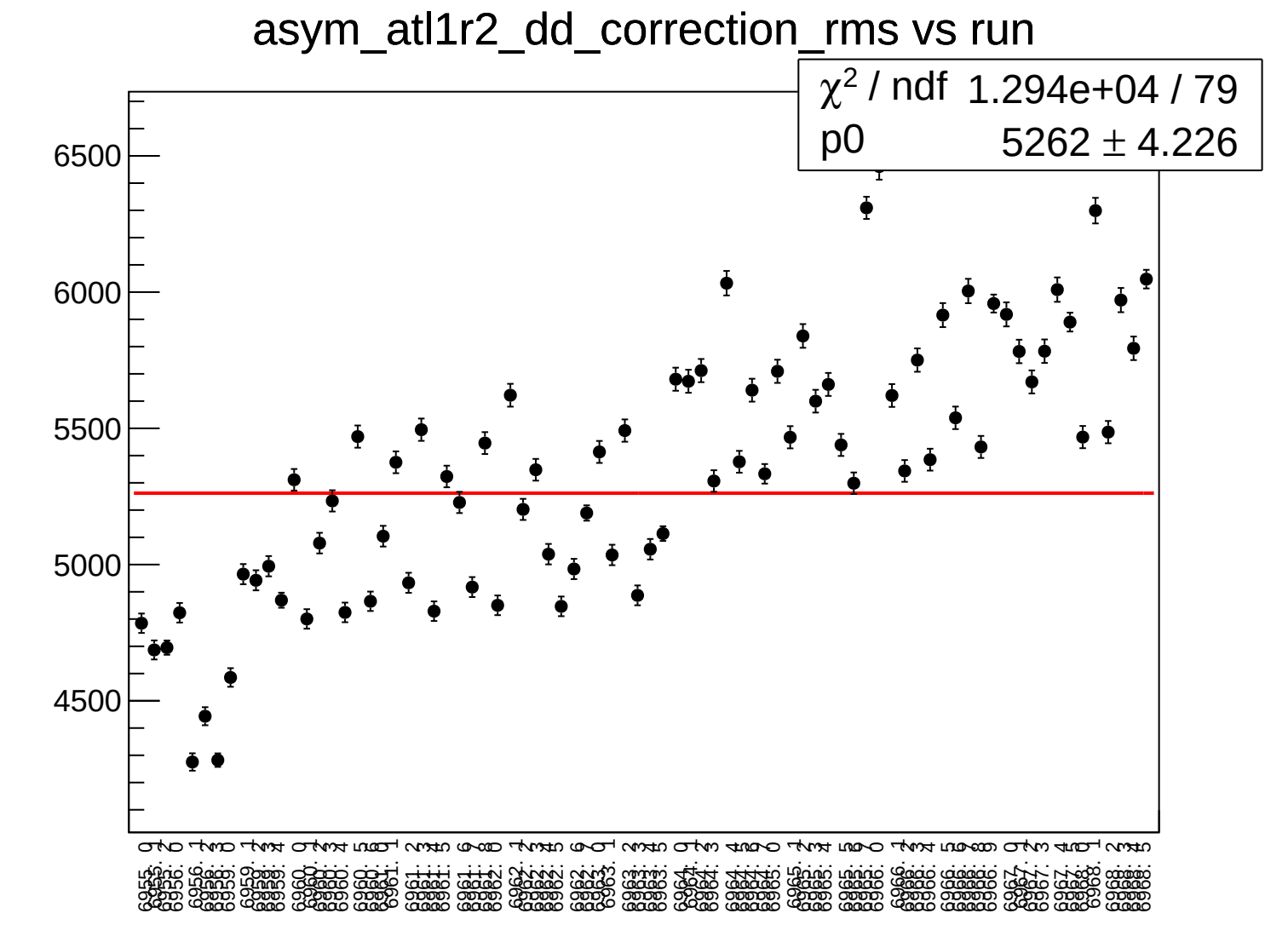

reg_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 75.88 / 79
p0 3667 ± 1974
pull
Entries 80
Mean −127.6
Std Dev 156.3

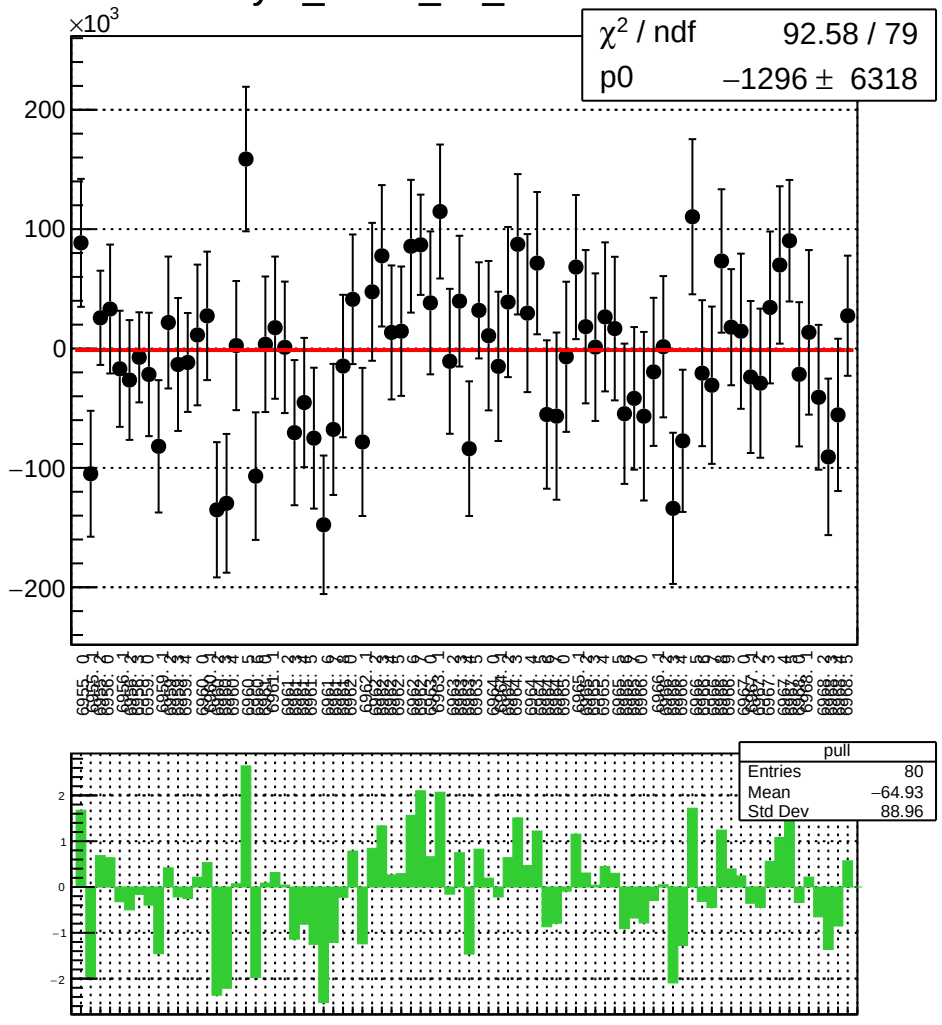

pull1D
Entries 80
Mean −0.02366
Std Dev 0.9736

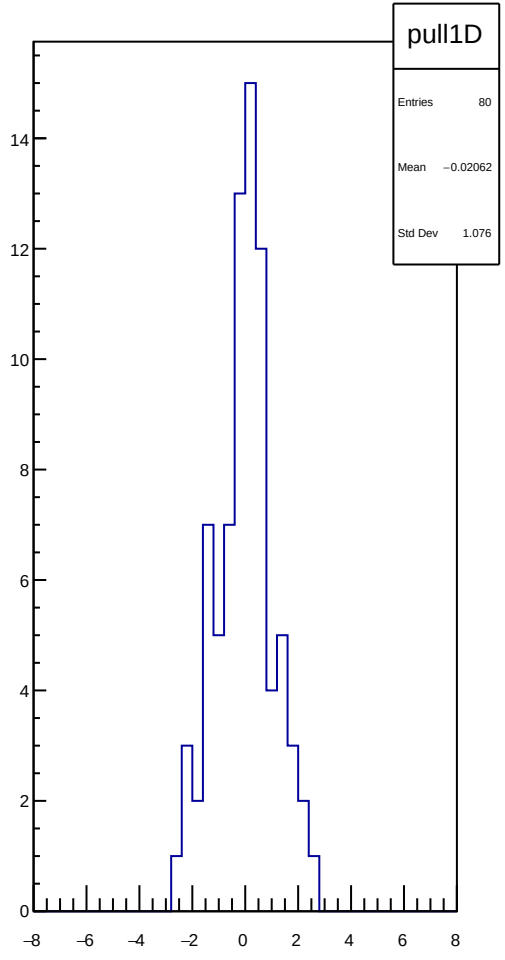

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 9606 / 79
p0 1740 ± 1.396
5000
4500
4000
3500
3000
2500
2000
1500

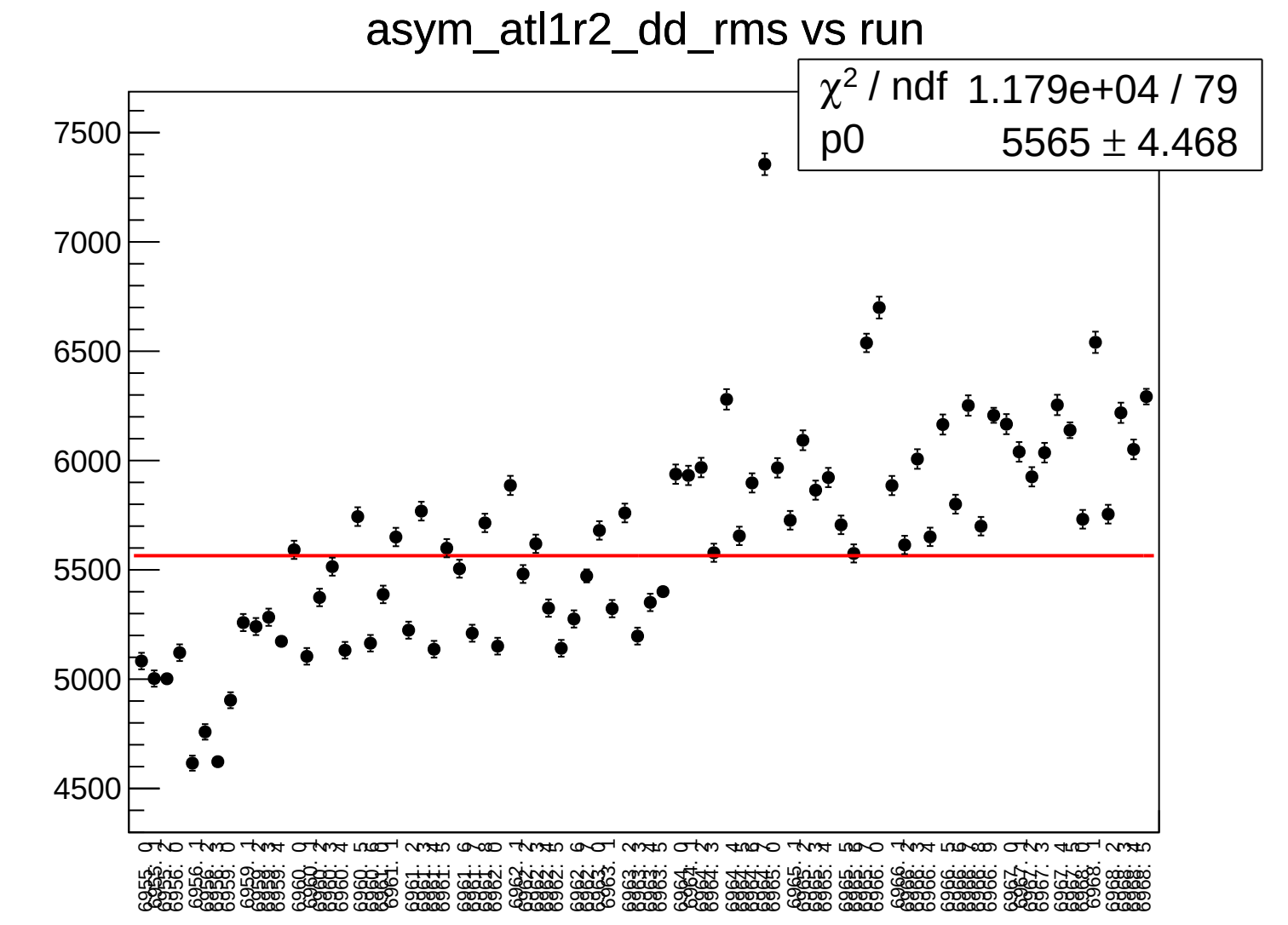

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 86.87 / 79
p0 3929 ± 5977
pull
Entries 80
Mean −7.254
Std Dev 16.27

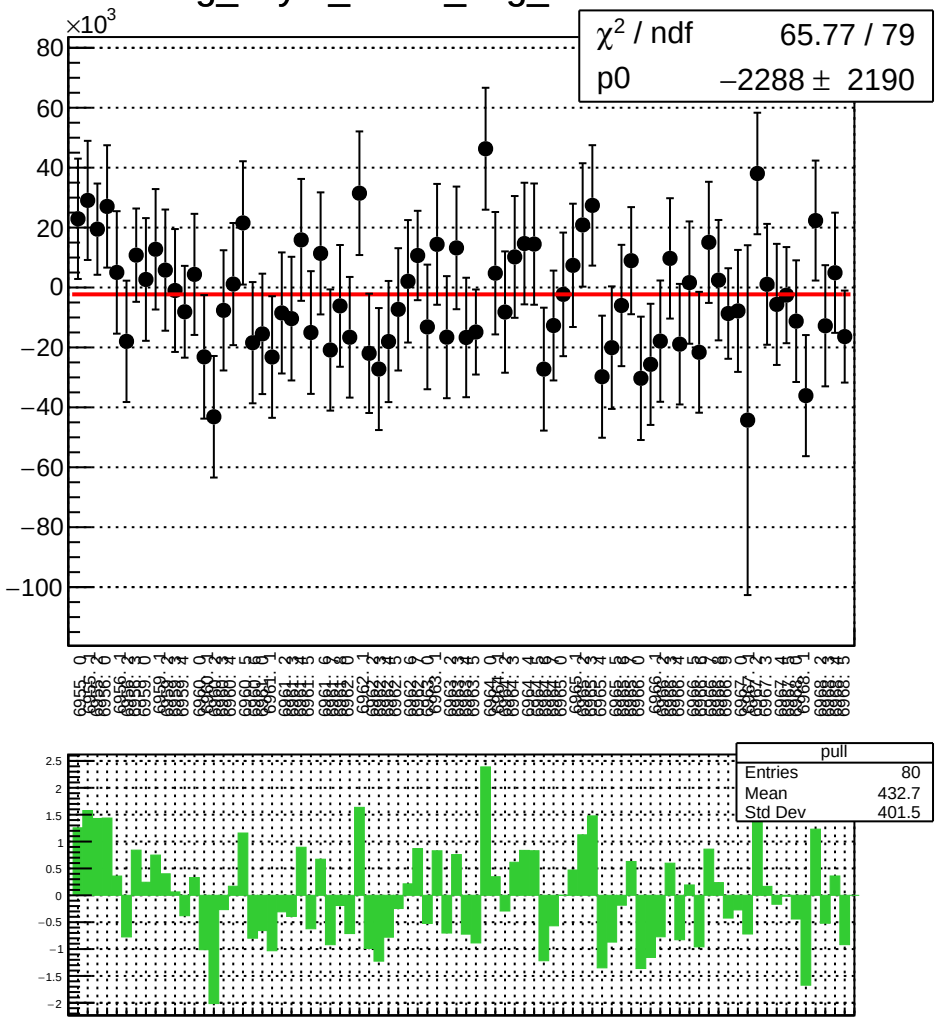

pull1D
Entries 80
Mean 0.02167
Std Dev 1.042

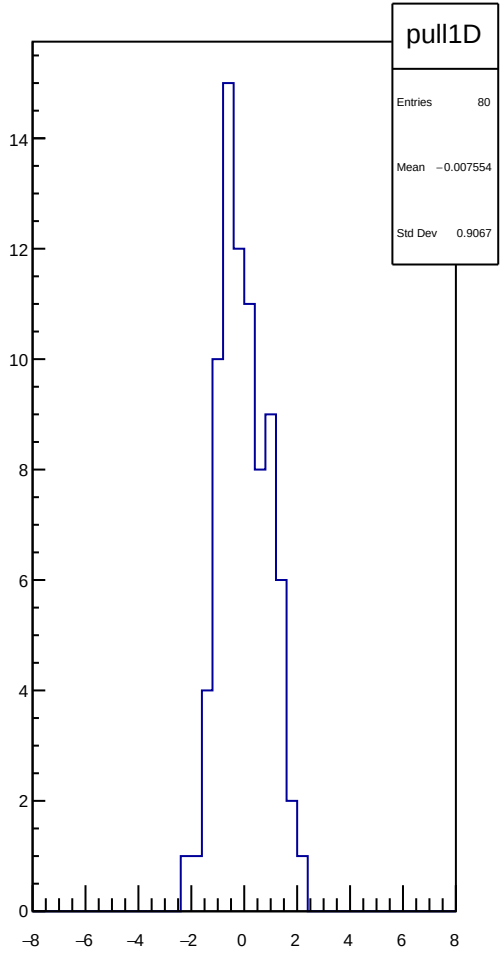

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 1.294e+04 / 79
p0 5262 ± 4.226
6500
6000
5500
5000
4500

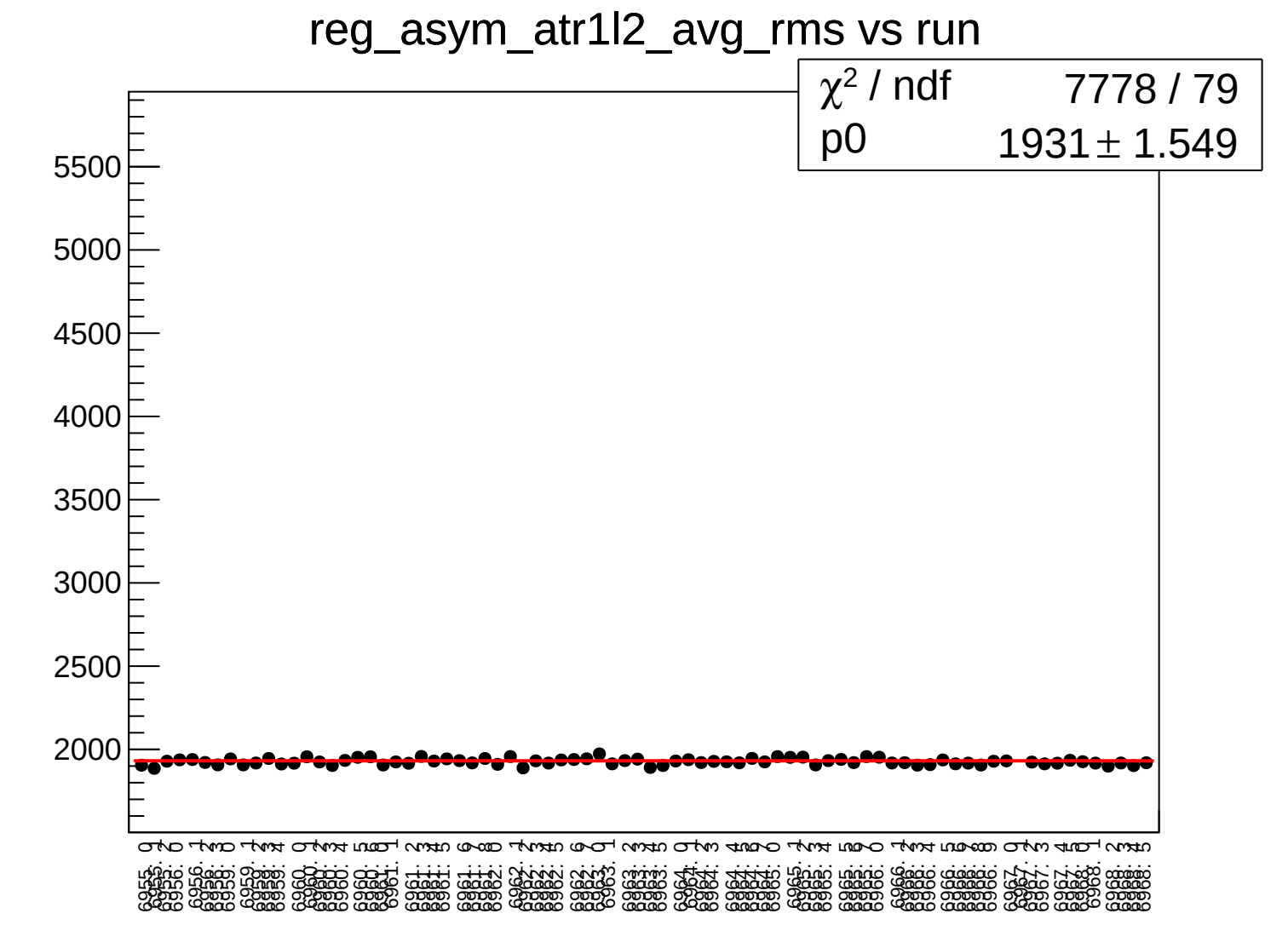

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 92.58 / 79
p0 −1296 ± 6318
200
100
0
−100
−200
pull
Entries 80
Mean −64.93
Std Dev 88.96
2
1
0
−1
−2

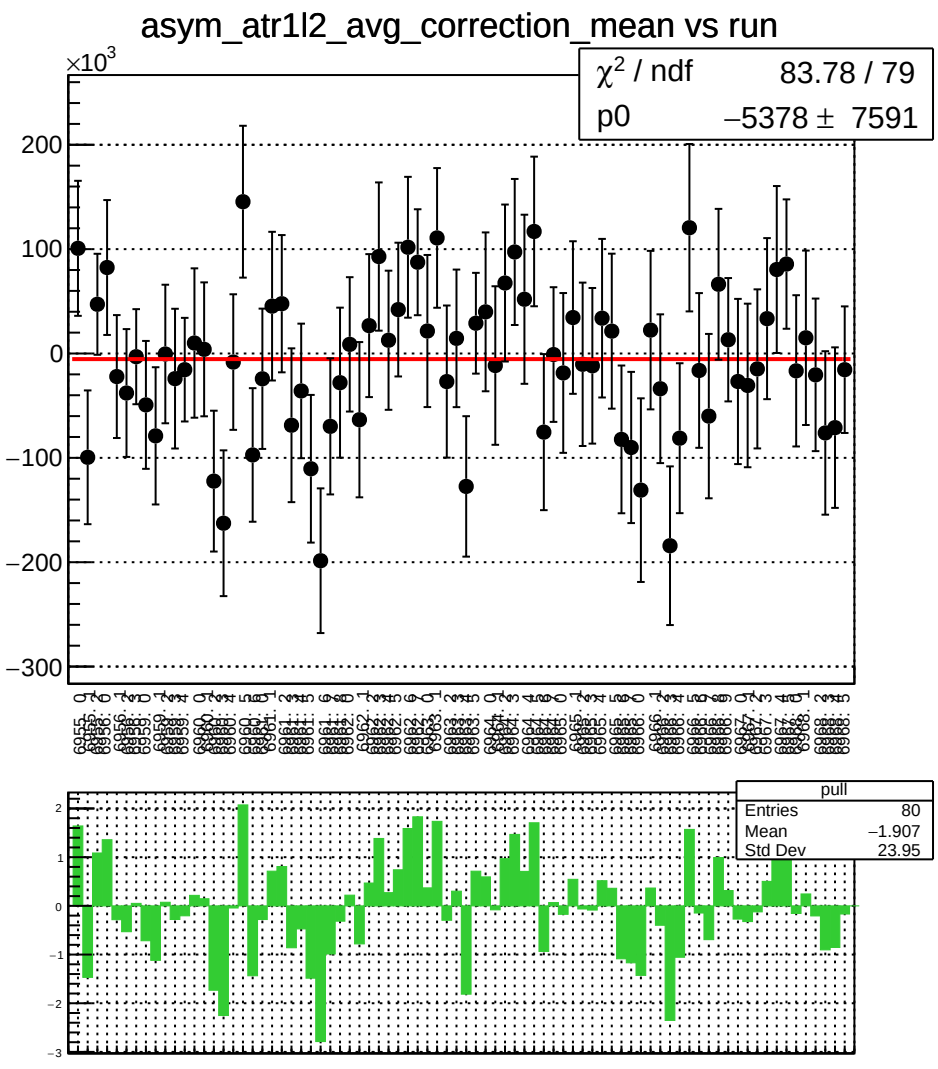

pull1D
Entries 80
Mean −0.02062
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

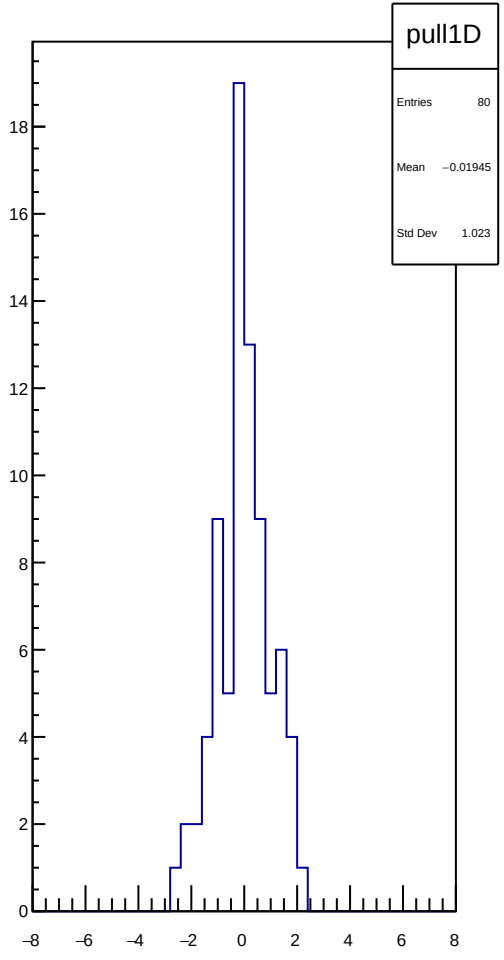

asym_atl1r2_dd_rms vs run
χ^2 / ndf 1.179e+04 / 79
p0 5565 ± 4.468
7500
7000
6500
6000
5500
5000
4500

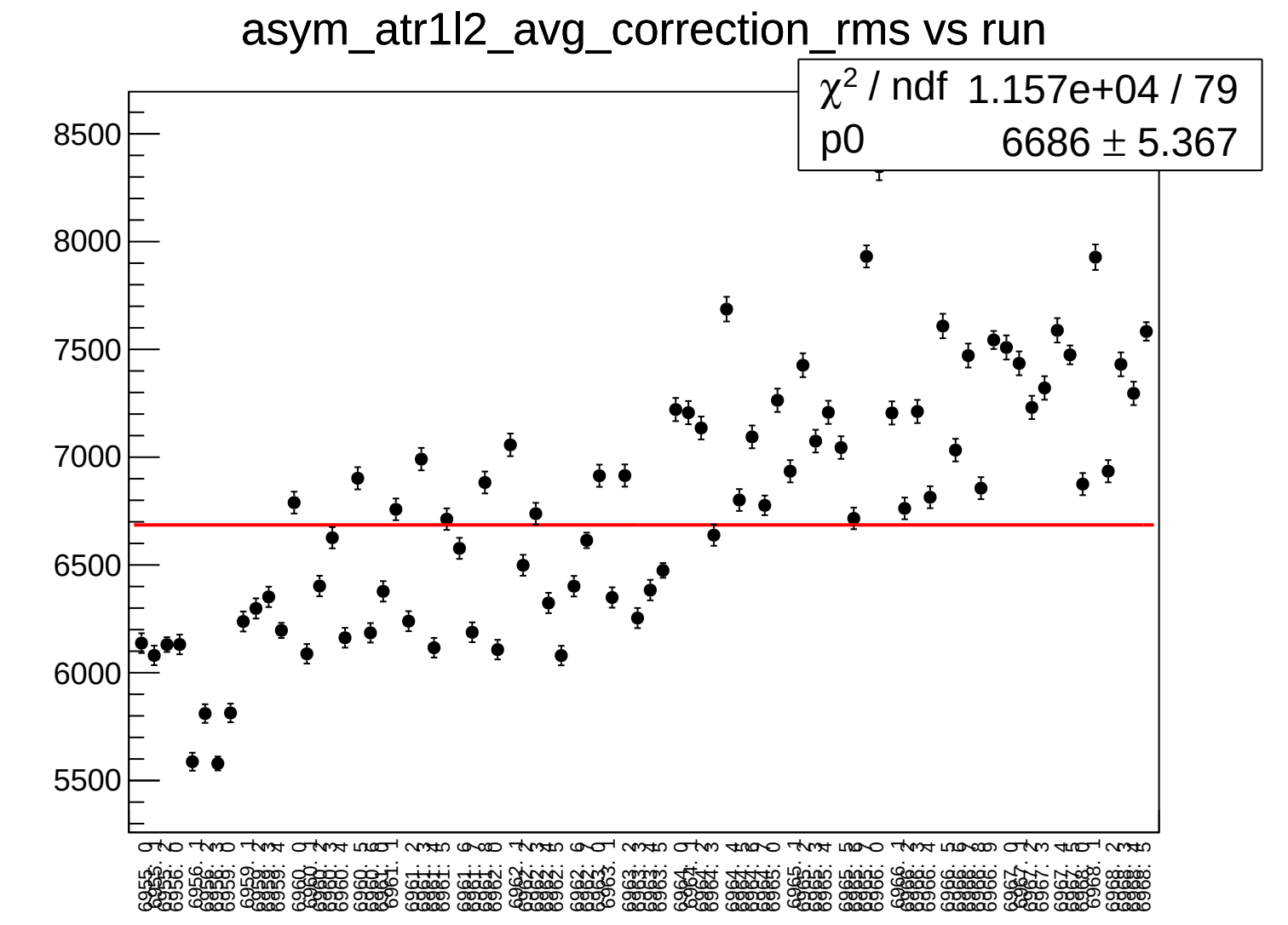

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 65.77 / 79
p0 −2288 ± 2190
pull
Entries 80
Mean 432.7
Std Dev 401.5

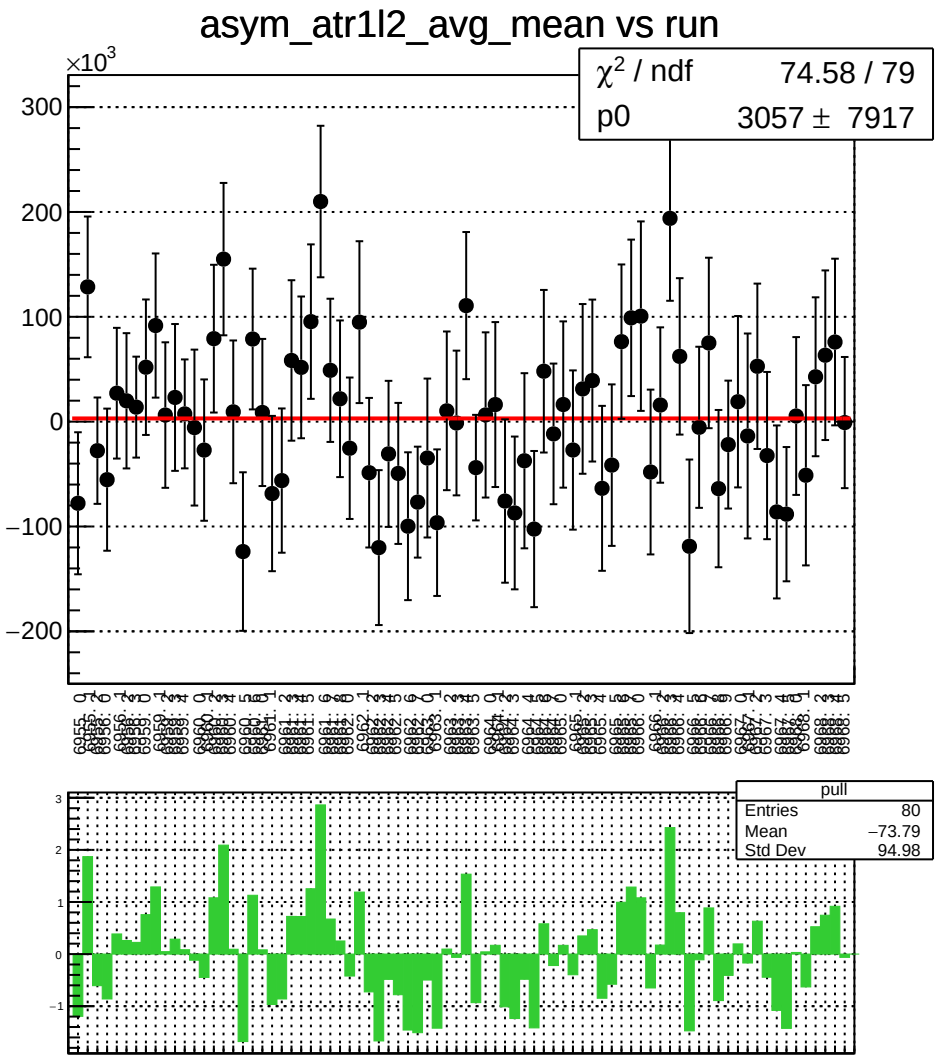

pull1D
Entries 80
Mean −0.007554
Std Dev 0.9067

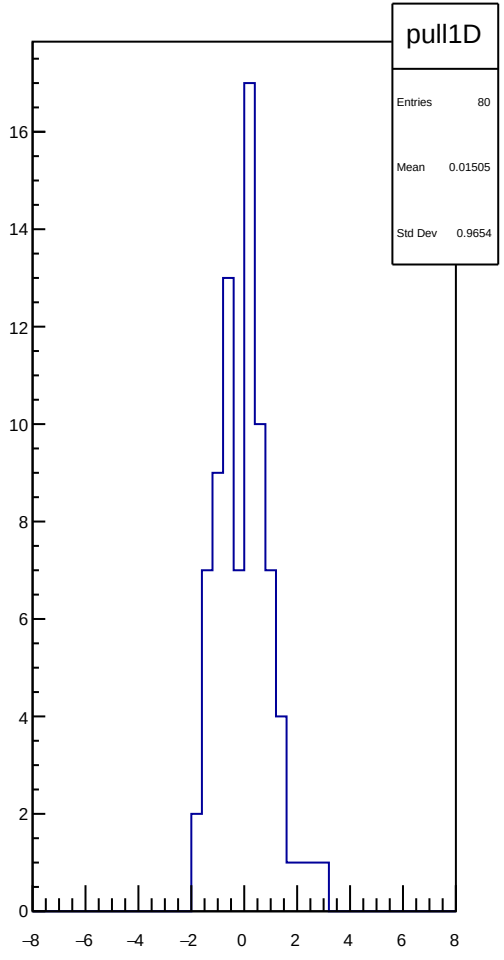

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 7778 / 79
p0 1931 ± 1.549
5500
5000
4500
4000
3500
3000
2500
2000

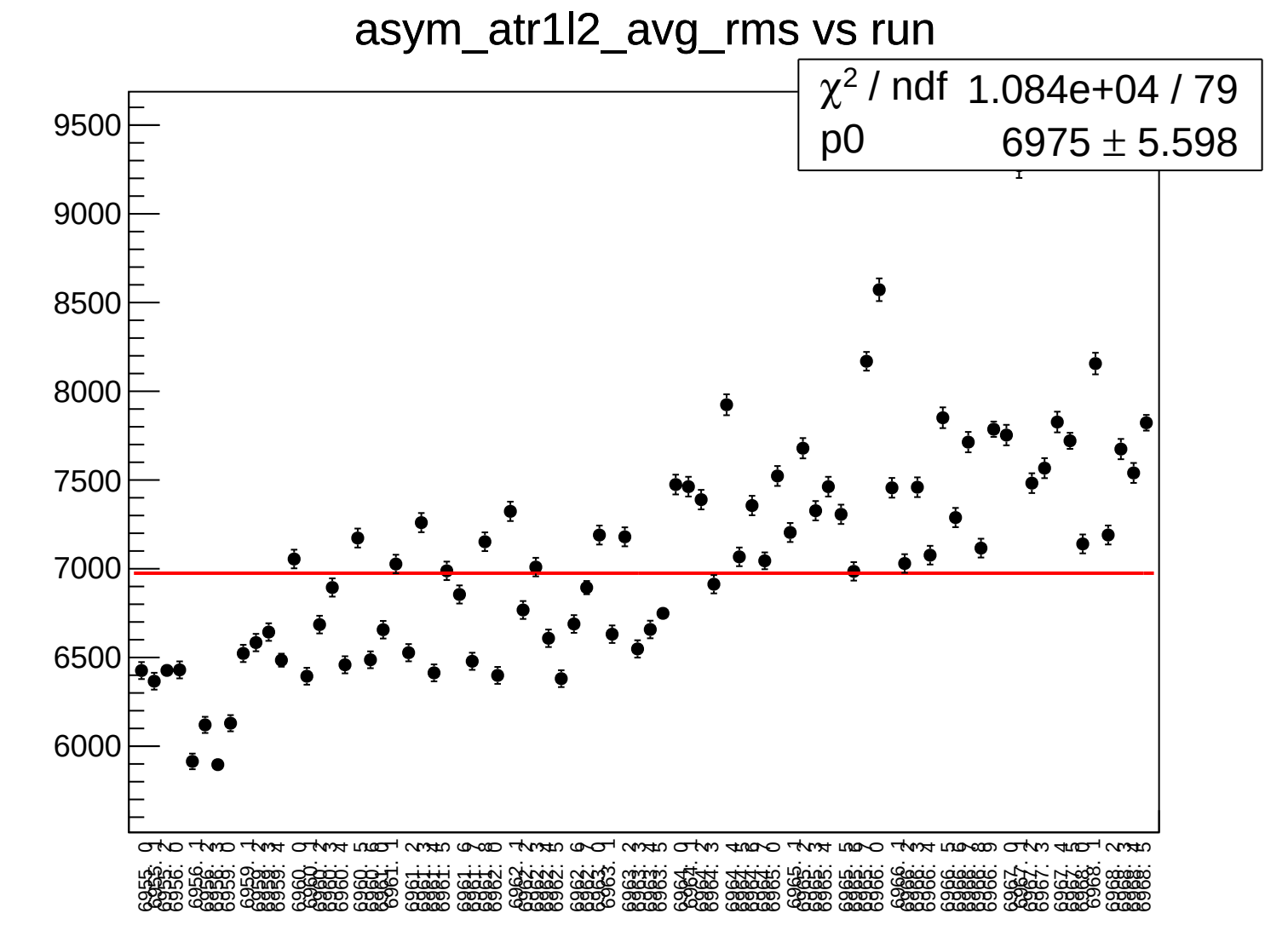

asym_atr1l2_avg_correction_mean vs run
χ² / ndf 83.78 / 79
p0 −5378 ± 7591
×10³
200
100
0
−100
−200
−300
pull
Entries 80
Mean −1.907
Std Dev 23.95
2
1
0
−1
−2
−3

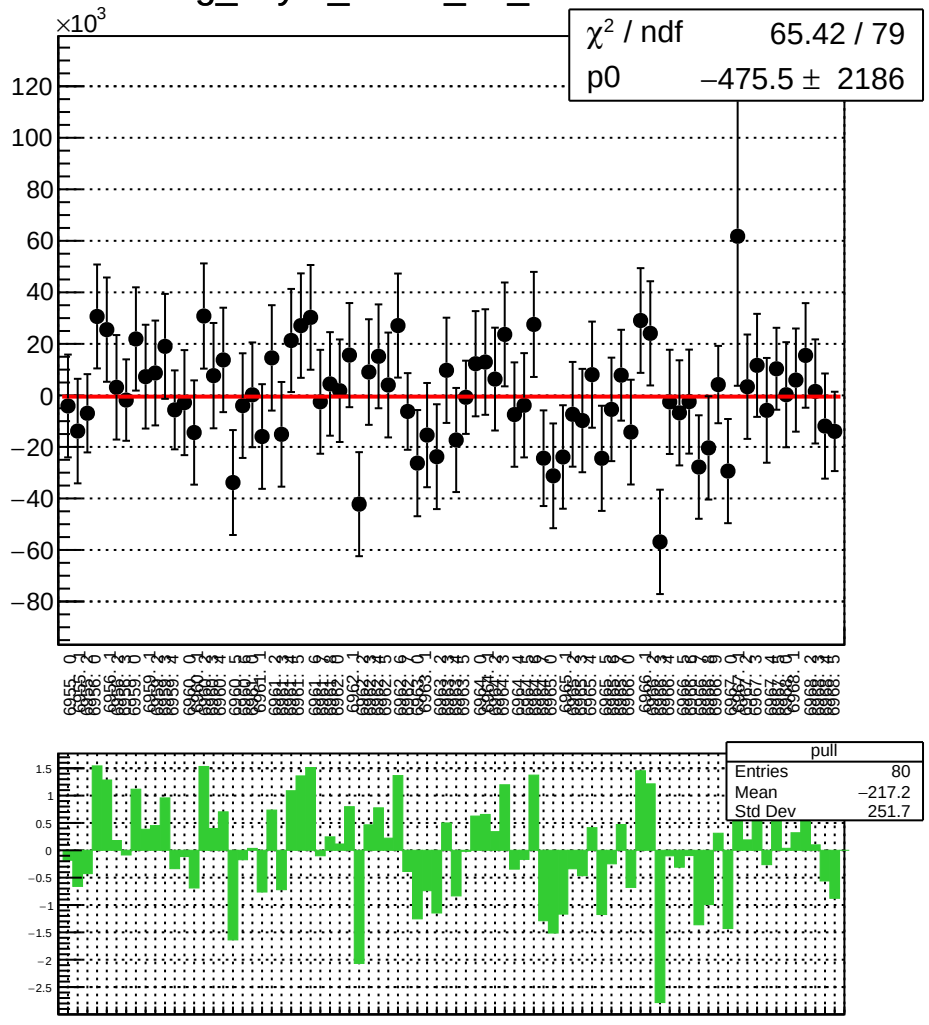

pull1D
Entries 80
Mean −0.01945
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

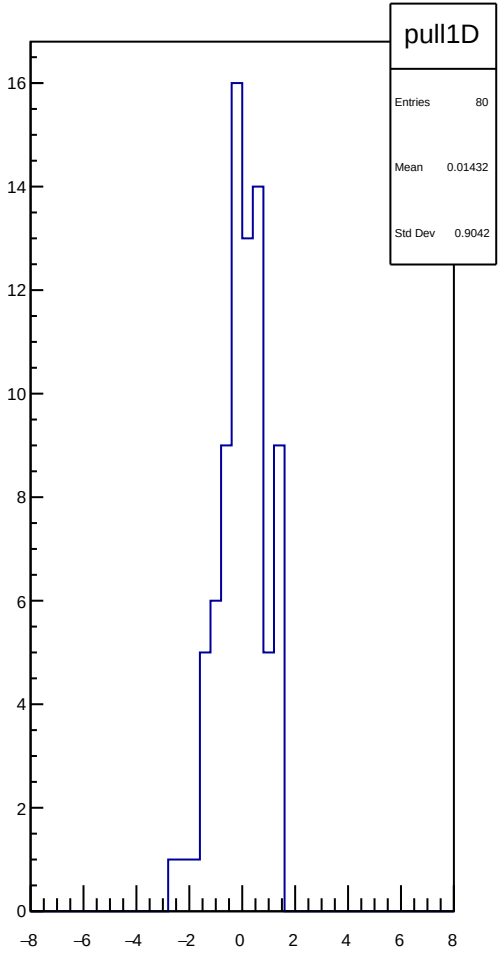

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 1.157e+04 / 79
p0 6686 ± 5.367
8500
8000
7500
7000
6500
6000
5500

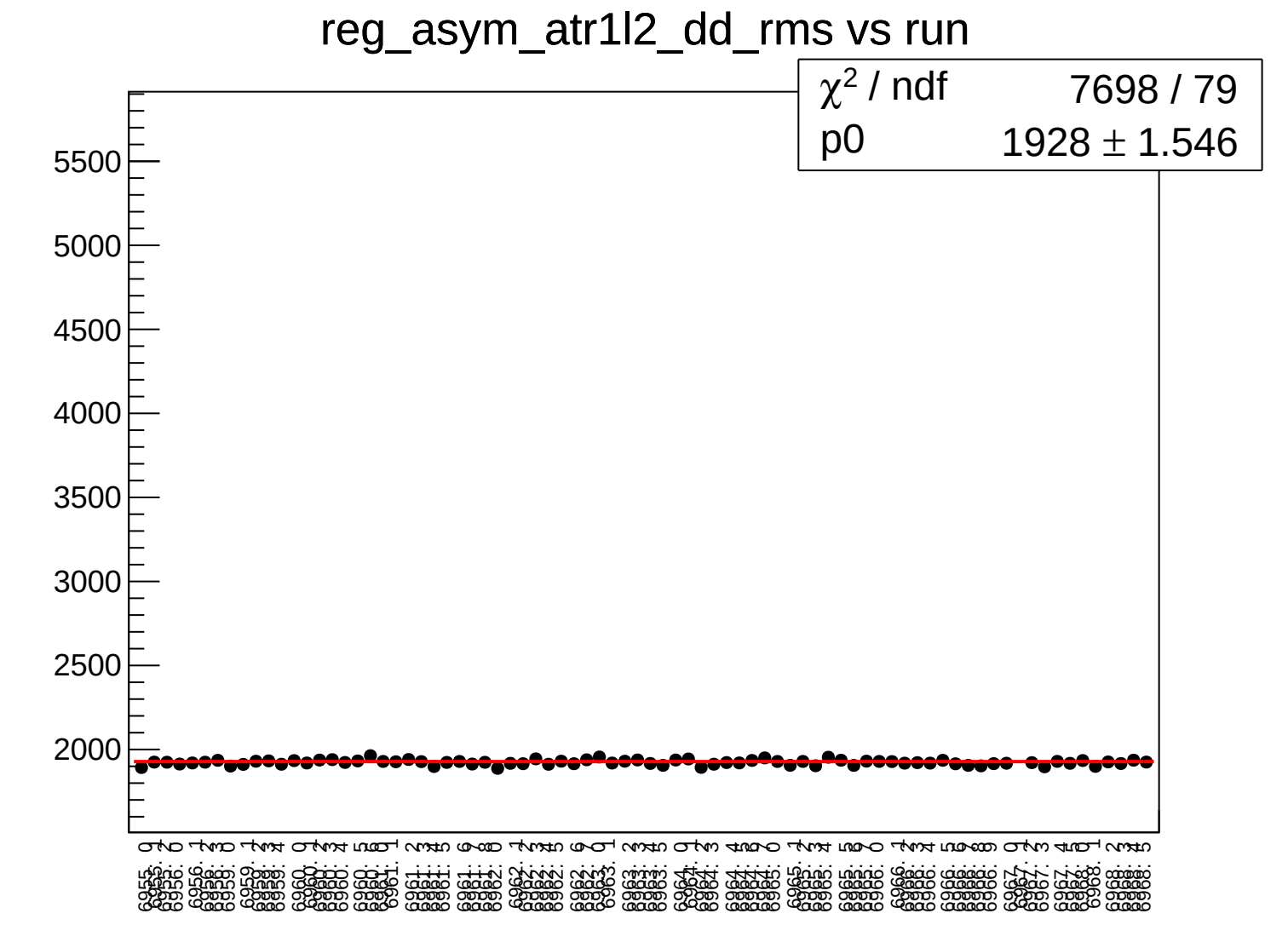

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 74.58 / 79
p0 3057 ± 7917
300
200
100
0
−100
−200
pull
Entries 80
Mean −73.79
Std Dev 94.98
3
2
1
0
−1

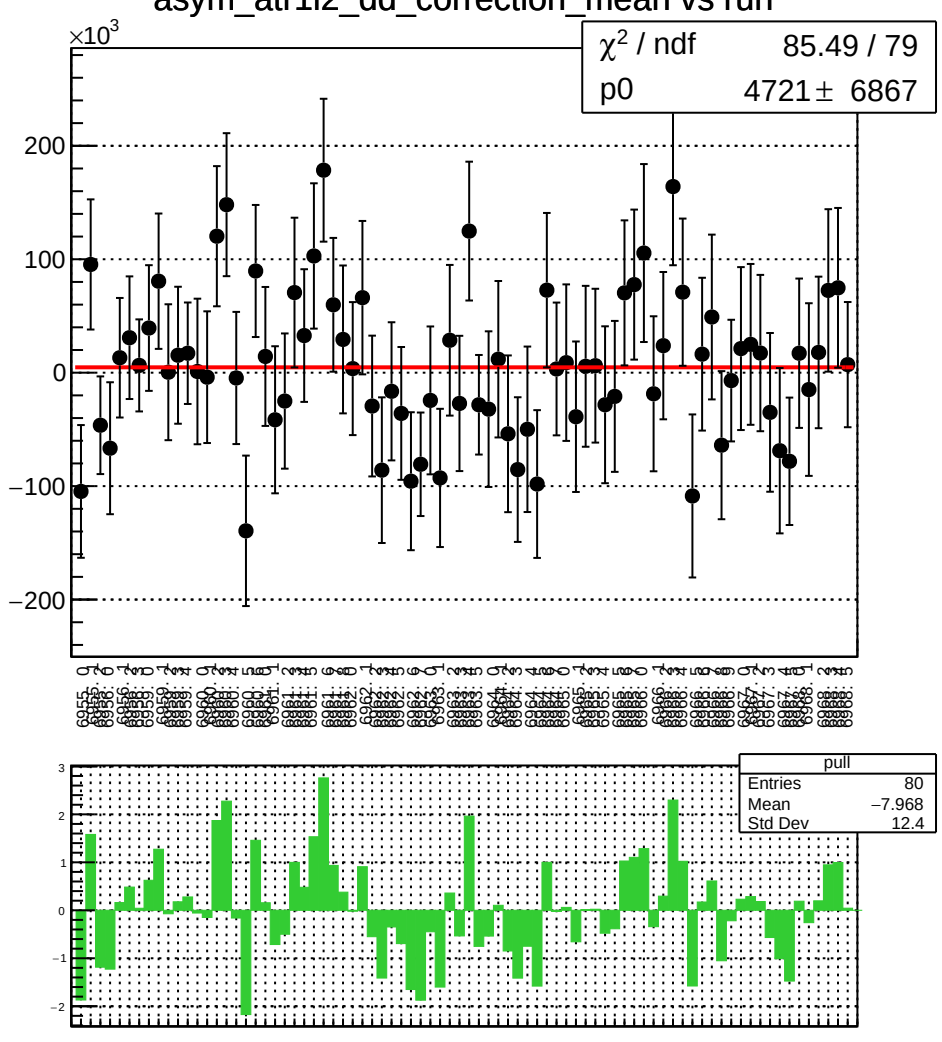

pull1D
Entries 80
Mean 0.01505
Std Dev 0.9654
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

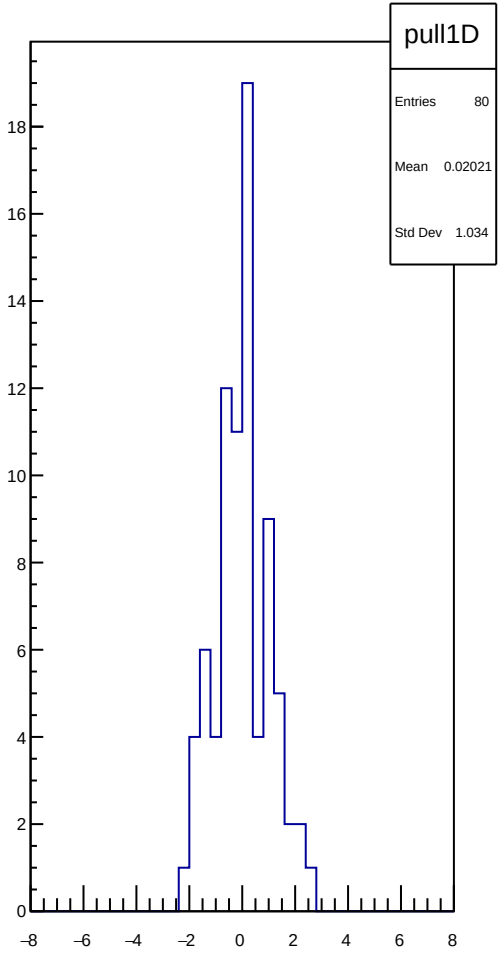

asym_atr1l2_avg_rms vs run
χ² / ndf 1.084e+04 / 79
p0 6975 ± 5.598
9500
9000
8500
8000
7500
7000
6500
6000

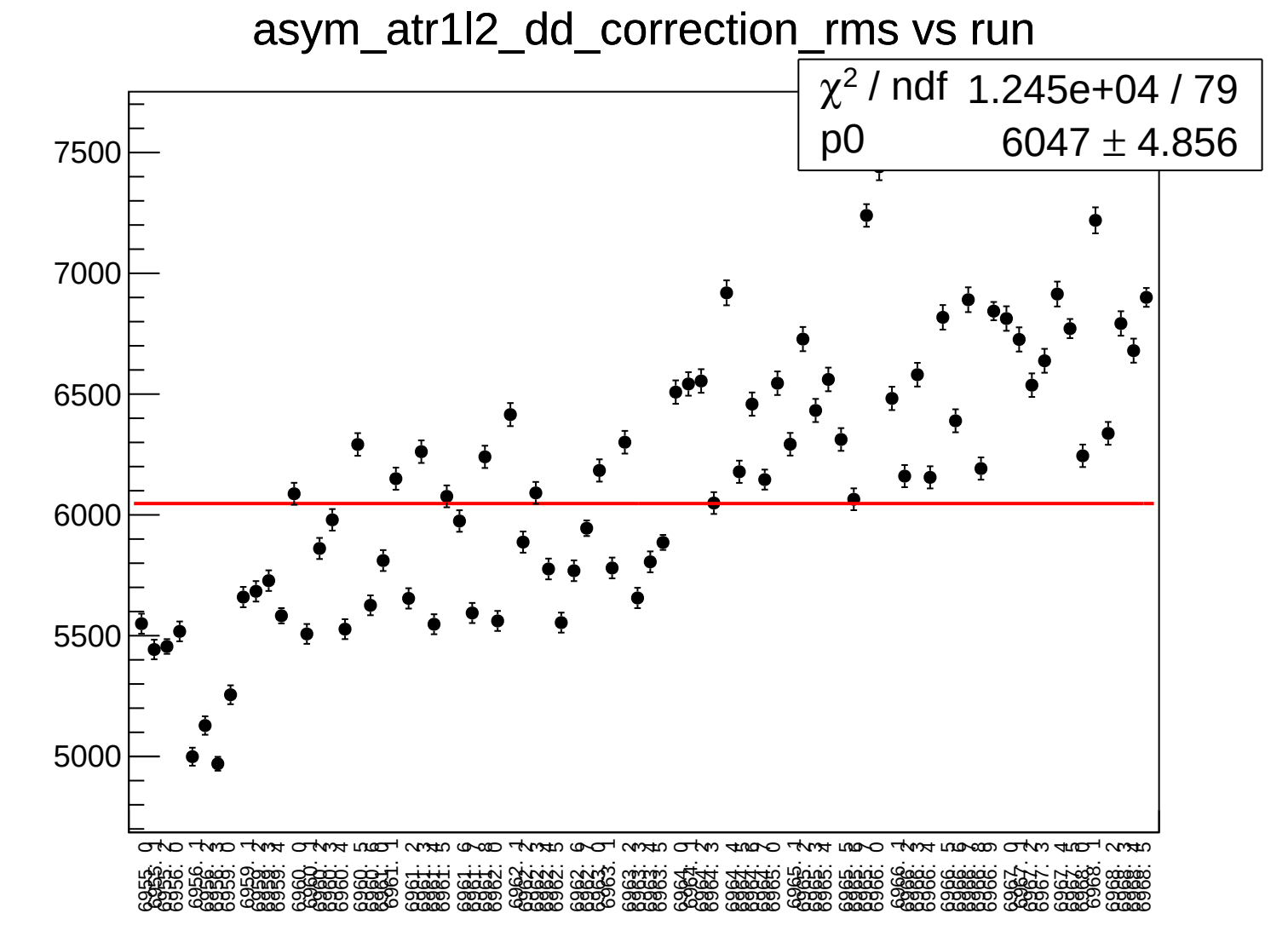

reg_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 65.42 / 79
p0 −475.5 ± 2186
pull
Entries 80
Mean −217.2
Std Dev 251.7

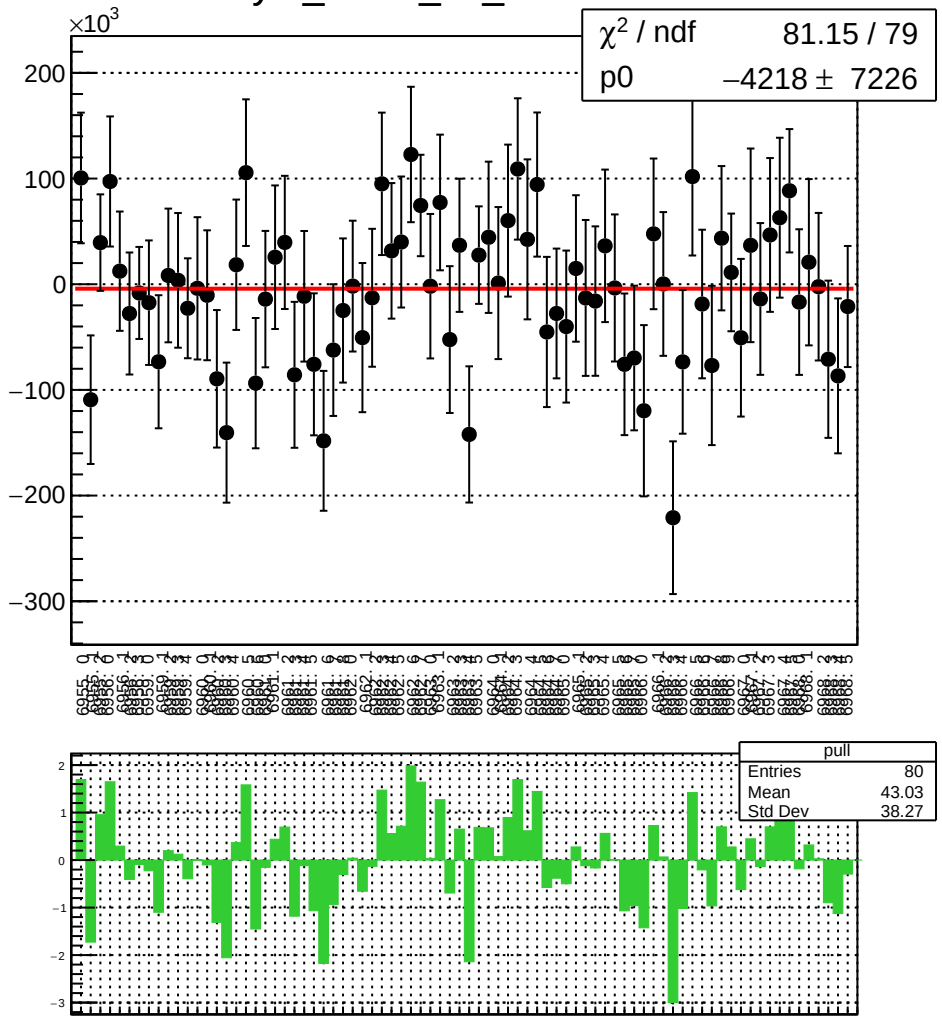

pull1D
Entries 80
Mean 0.01432
Std Dev 0.9042

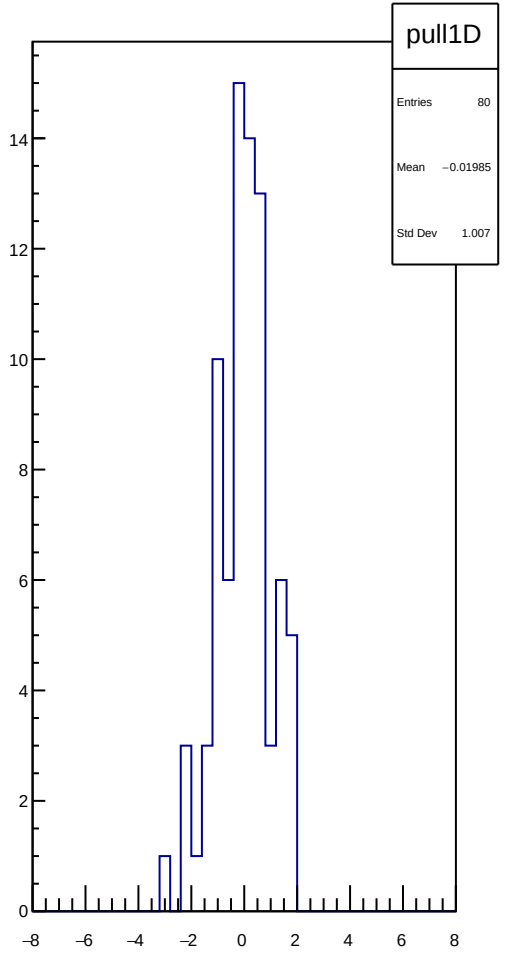

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 7698 / 79
p0 1928 ± 1.546
5500
5000
4500
4000
3500
3000
2500
2000

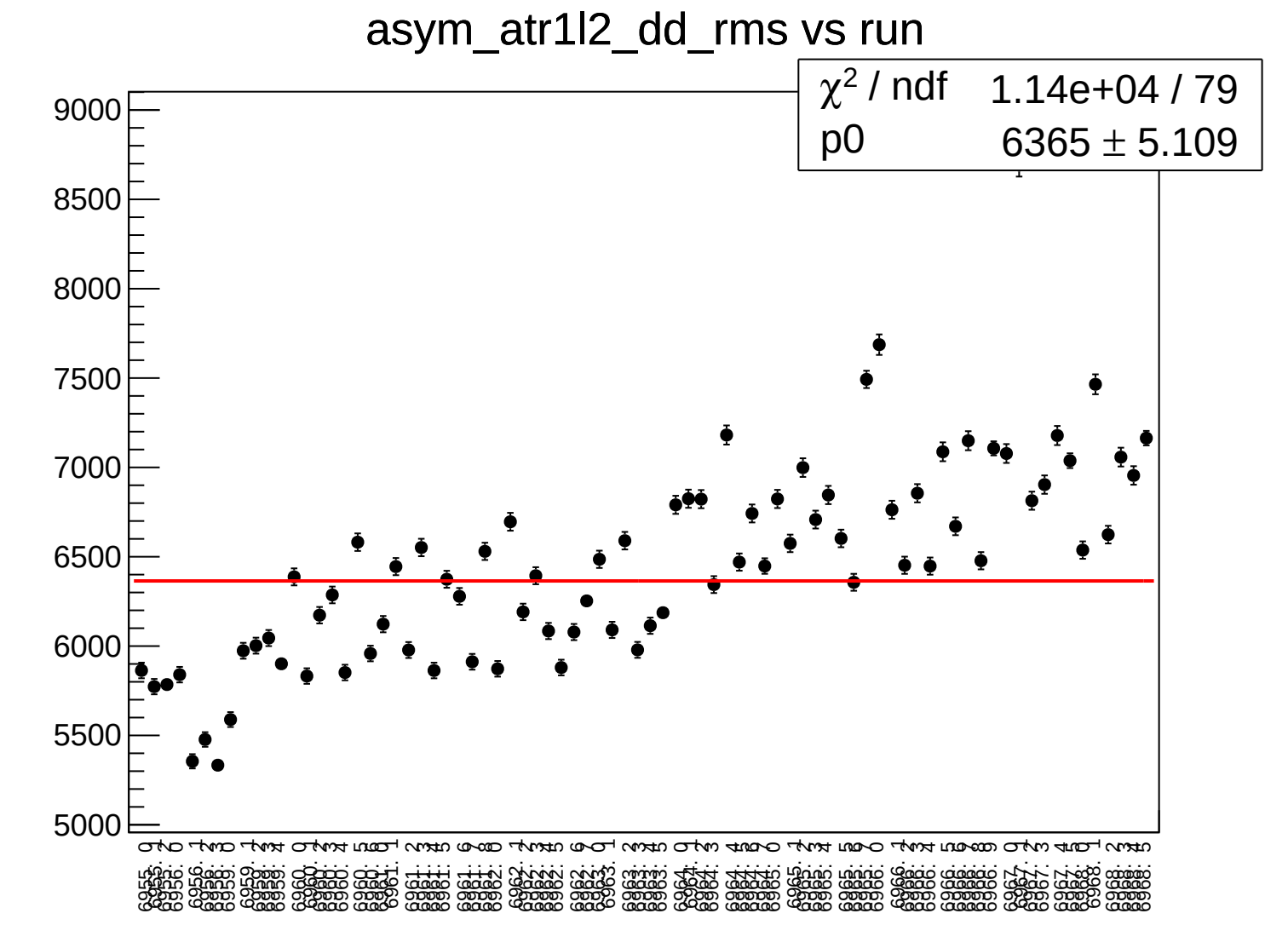

asym_atr1l2_dd_correction_mean vs run
×10^3
χ^2 / ndf 85.49 / 79
p0 4721 ± 6867
200
100
0
−100
−200
pull
Entries 80
Mean −7.968
Std Dev 12.4
3
2
1
0
−1
−2

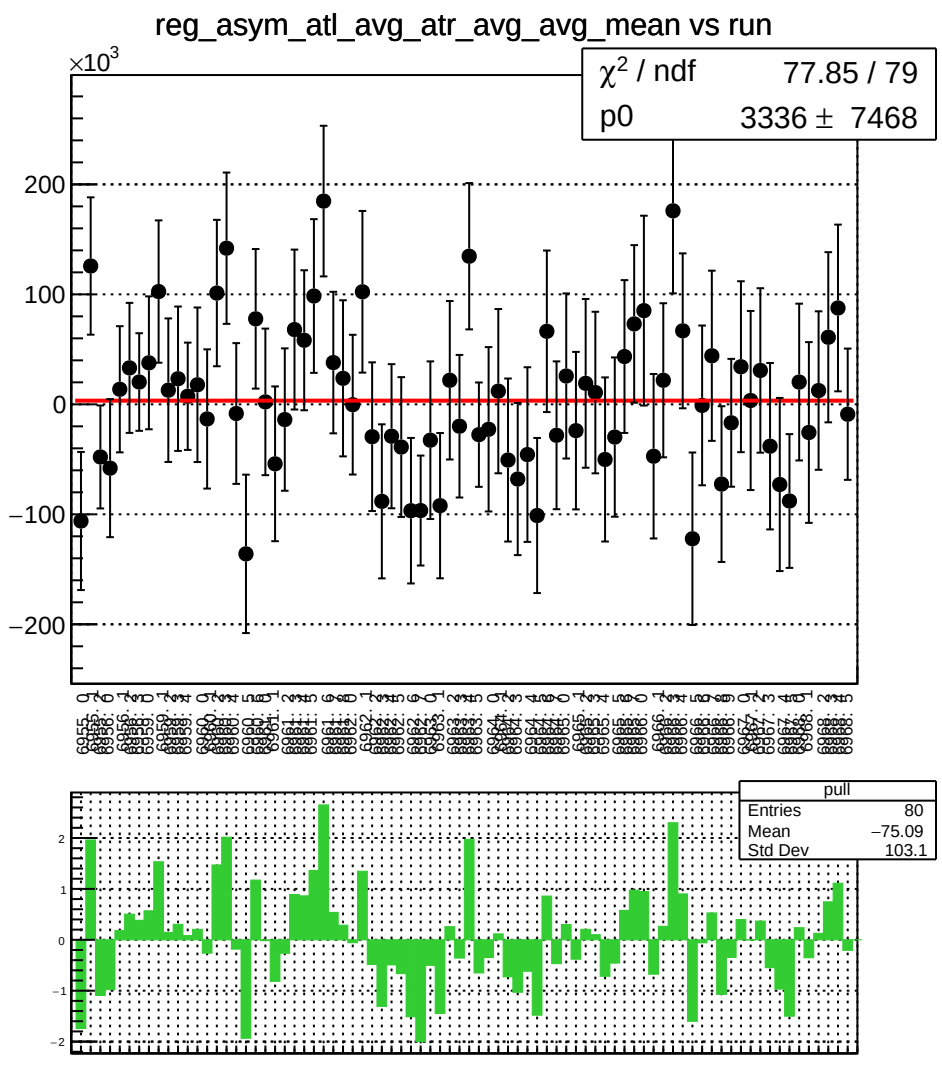

pull1D
Entries 80
Mean 0.02021
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

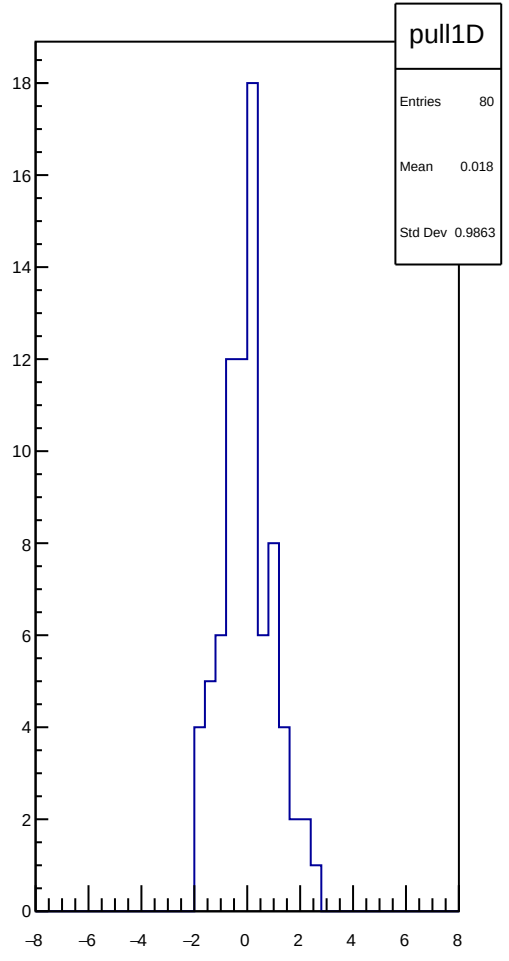

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 1.245e+04 / 79
p0 6047 ± 4.856
7500
7000
6500
6000
5500
5000

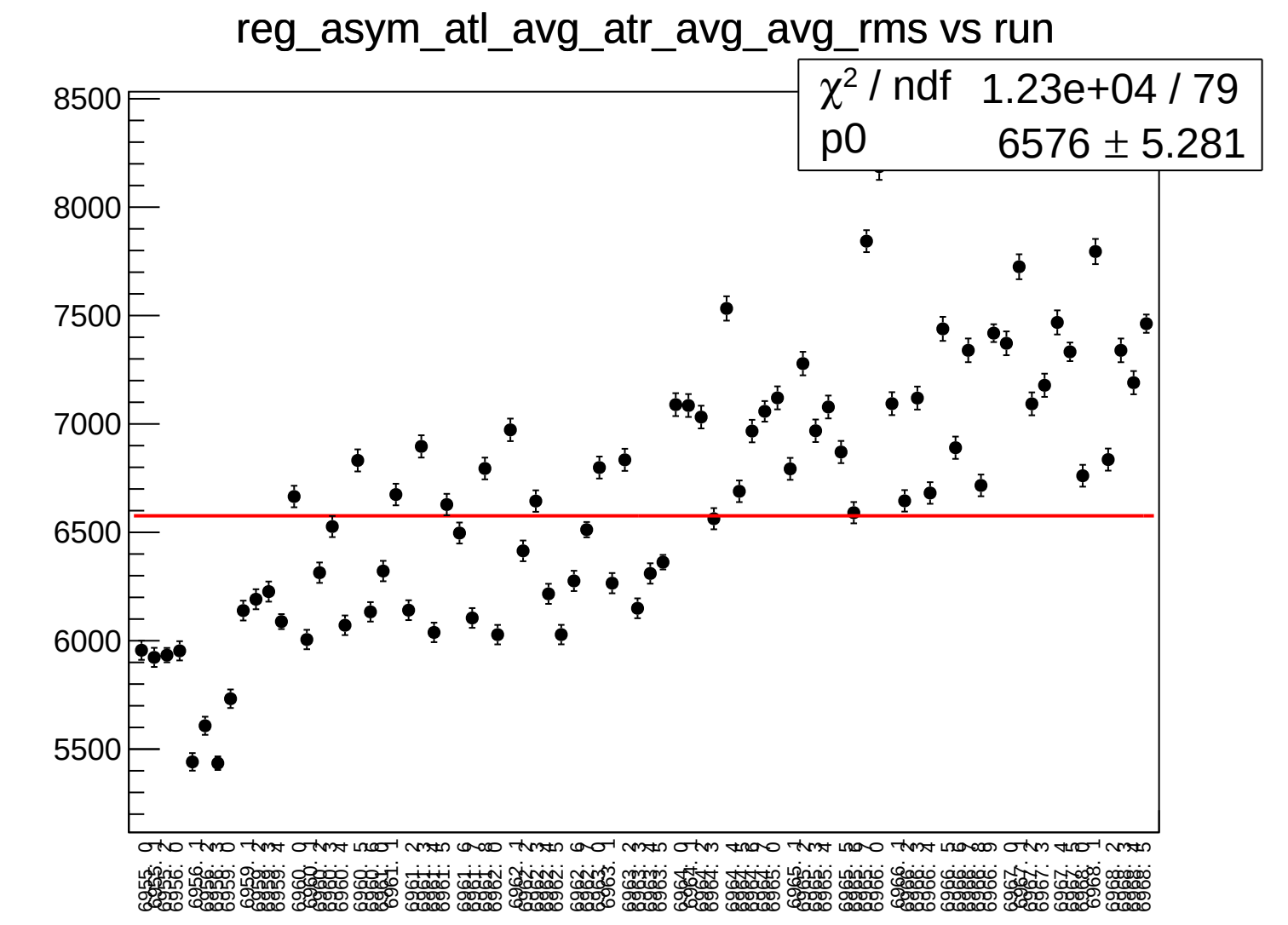

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 81.15 / 79
p0 −4218 ± 7226
200
100
0
−100
−200
−300
pull
Entries 80
Mean 43.03
Std Dev 38.27
2
1
0
−1
−2
−3

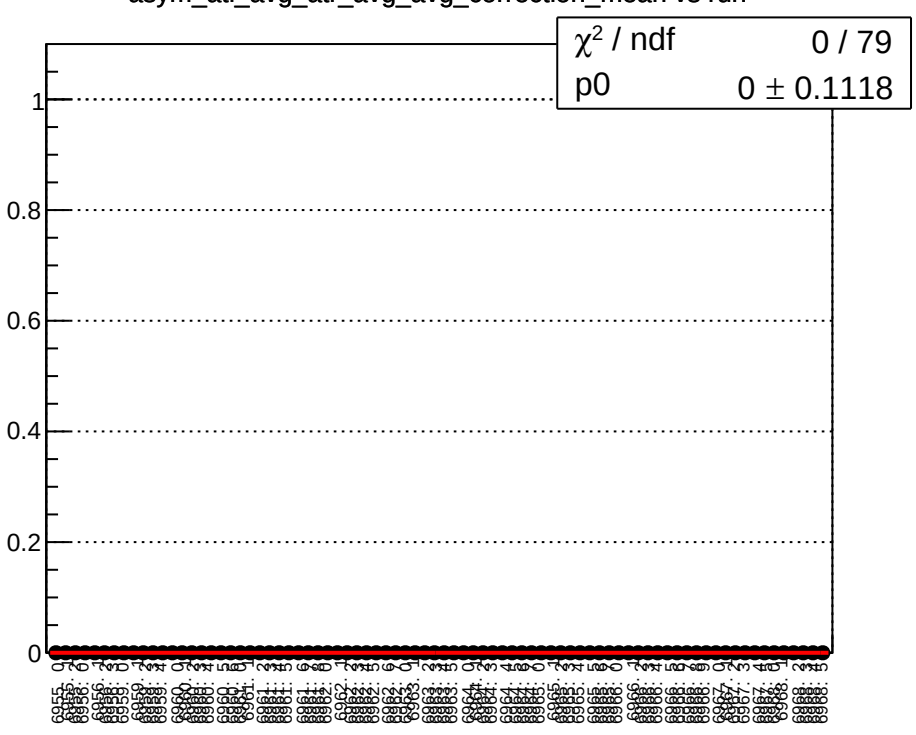

pull1D
Entries 80
Mean −0.01985
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

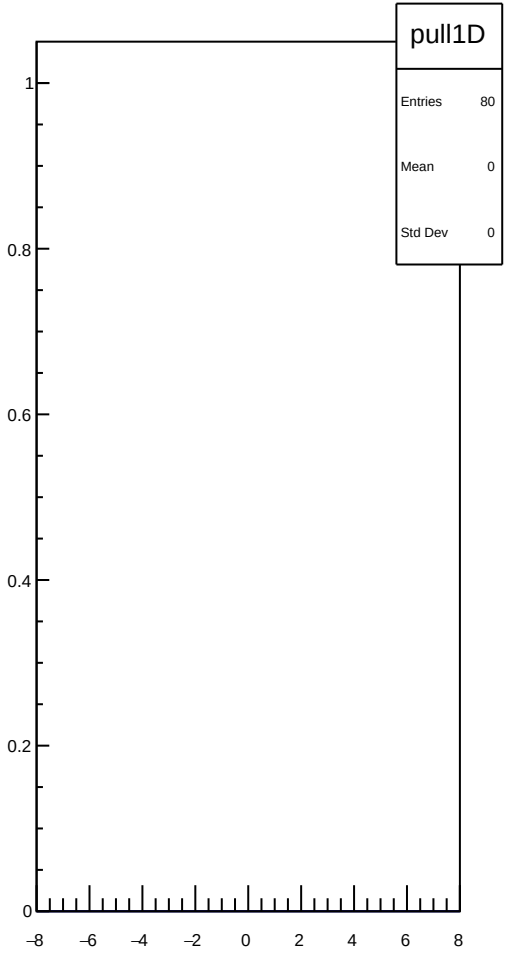

asym_atr1l2_dd_rms vs run
χ^2 / ndf 1.14e+04 / 79
p0 6365 ± 5.109
9000
8500
8000
7500
7000
6500
6000
5500
5000

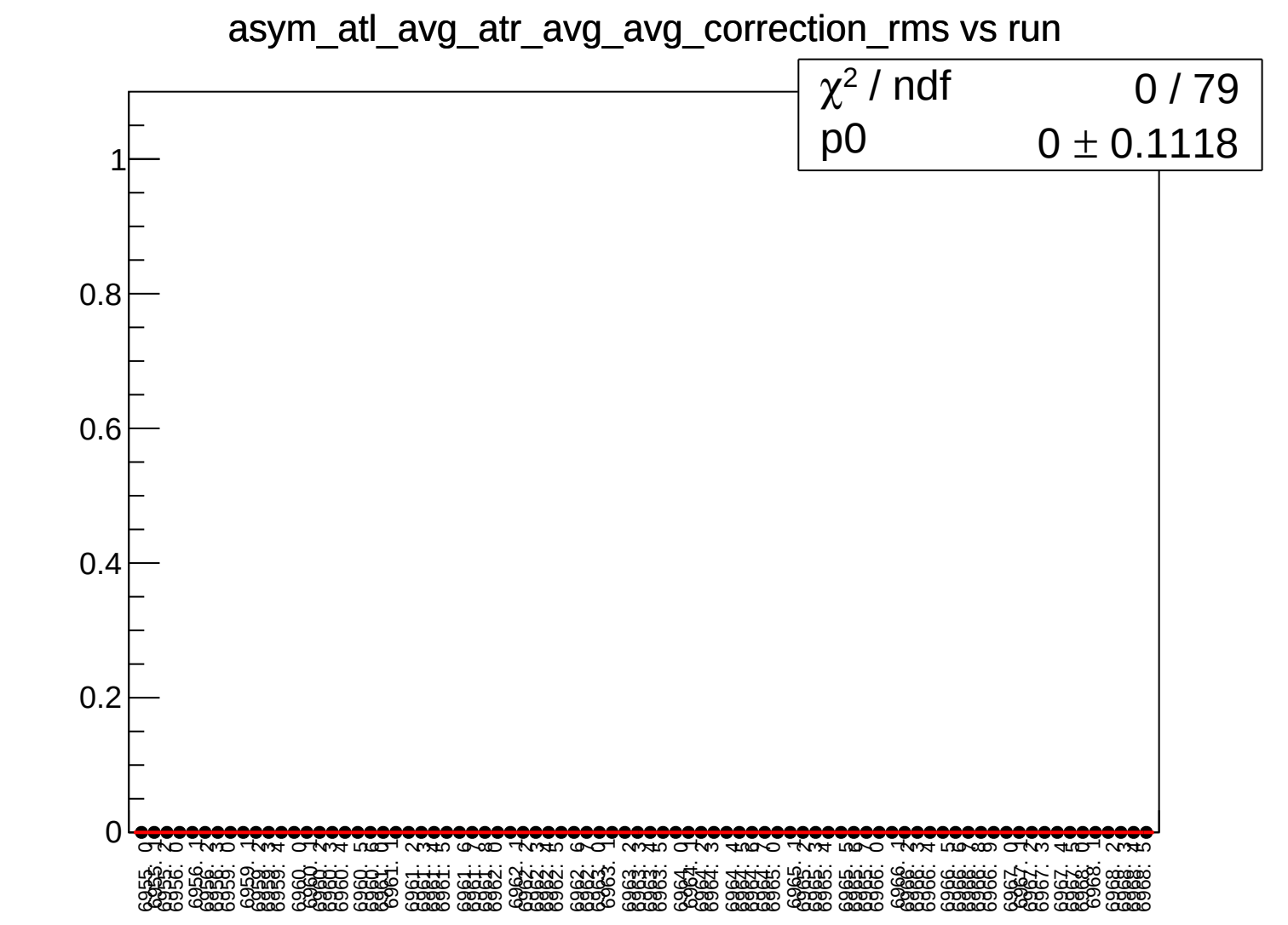

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 77.85 / 79
p0 3336 ± 7468
200
100
0
−100
−200
pull
Entries 80
Mean −75.09
Std Dev 103.1
2
1
0
−1
−2

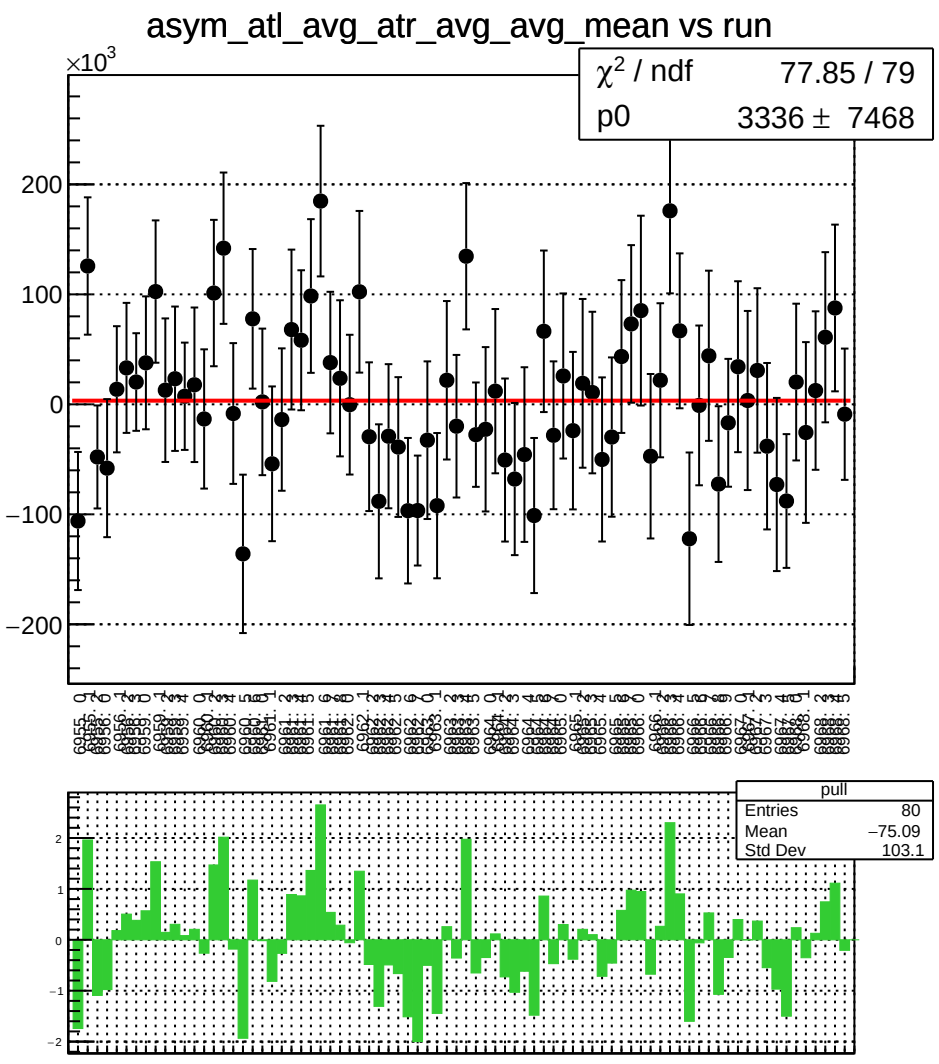

pull1D
Entries 80
Mean 0.018
Std Dev 0.9863
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

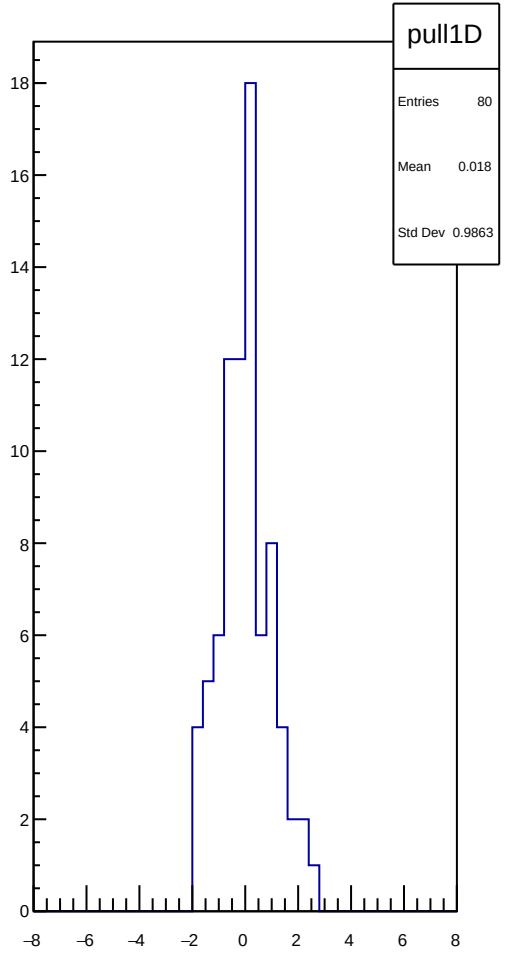

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.23e+04 / 79
p0 6576 ± 5.281
8500
8000
7500
7000
6500
6000
5500

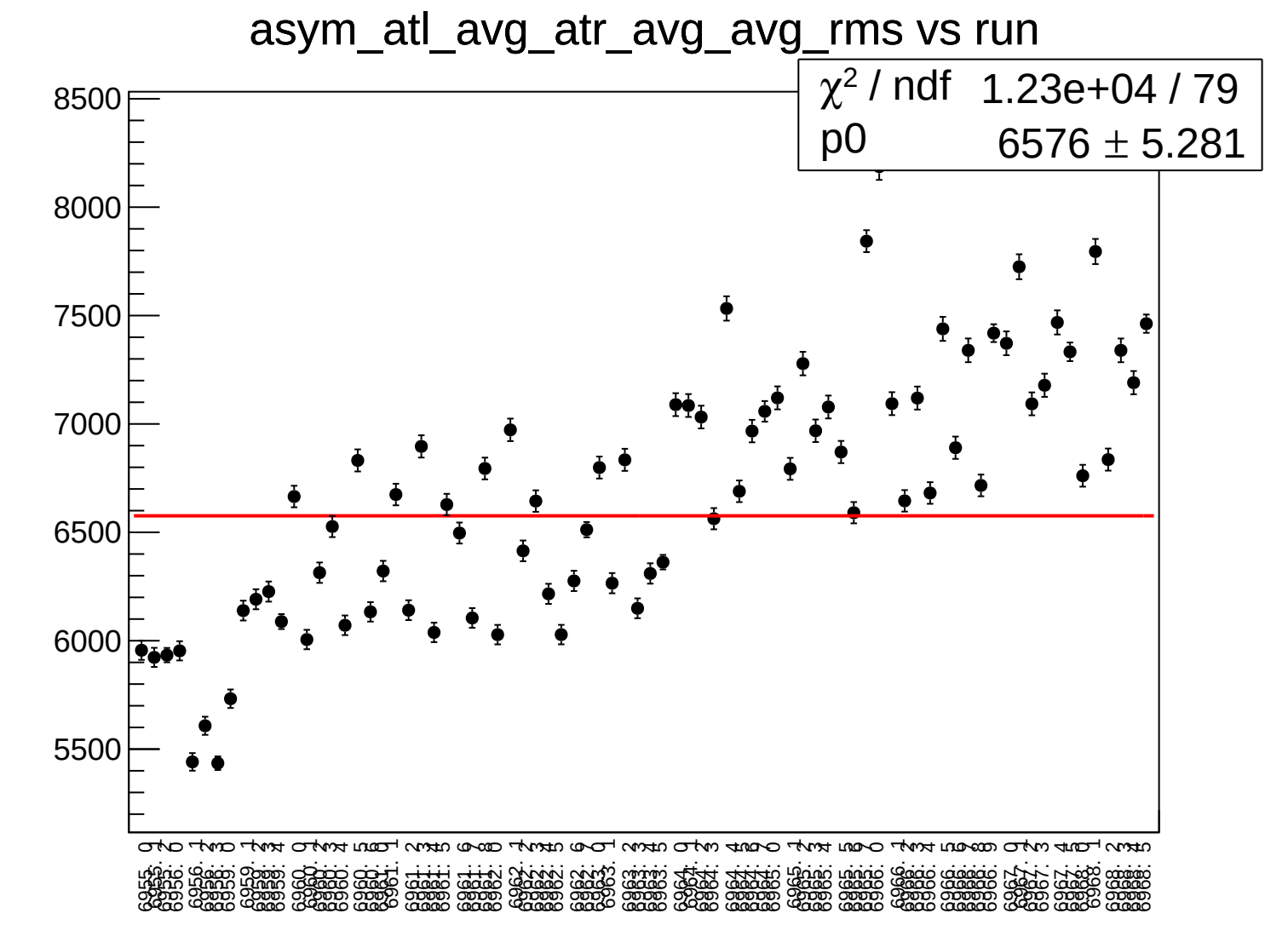

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 79
p0 0 ± 0.1118
1
0.8
0.6
0.4
0.2
0

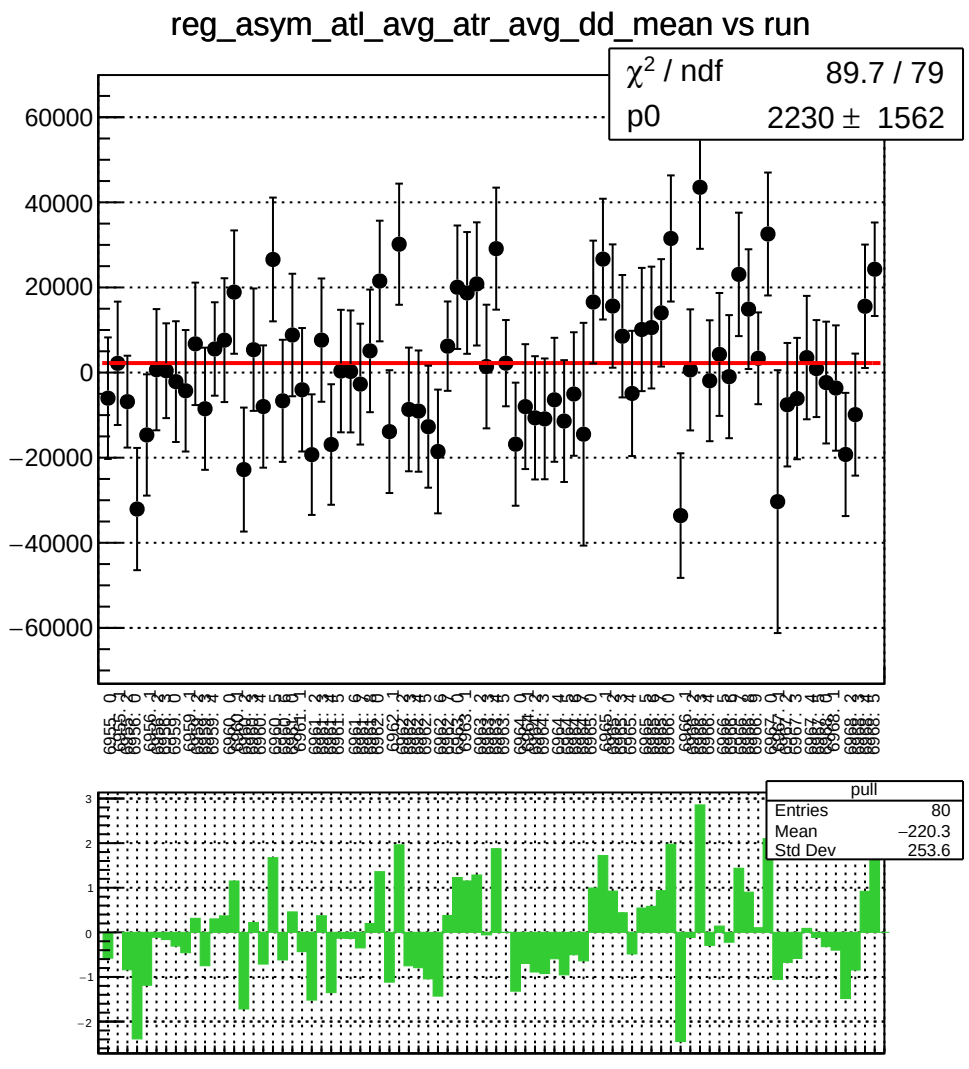

pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

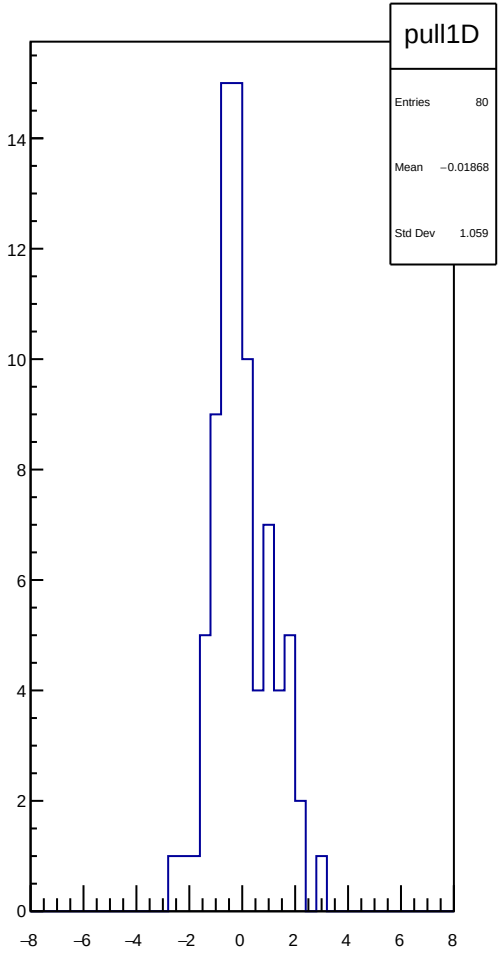

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 79
p0 0 ± 0.1118
1
0.8
0.6
0.4
0.2
0

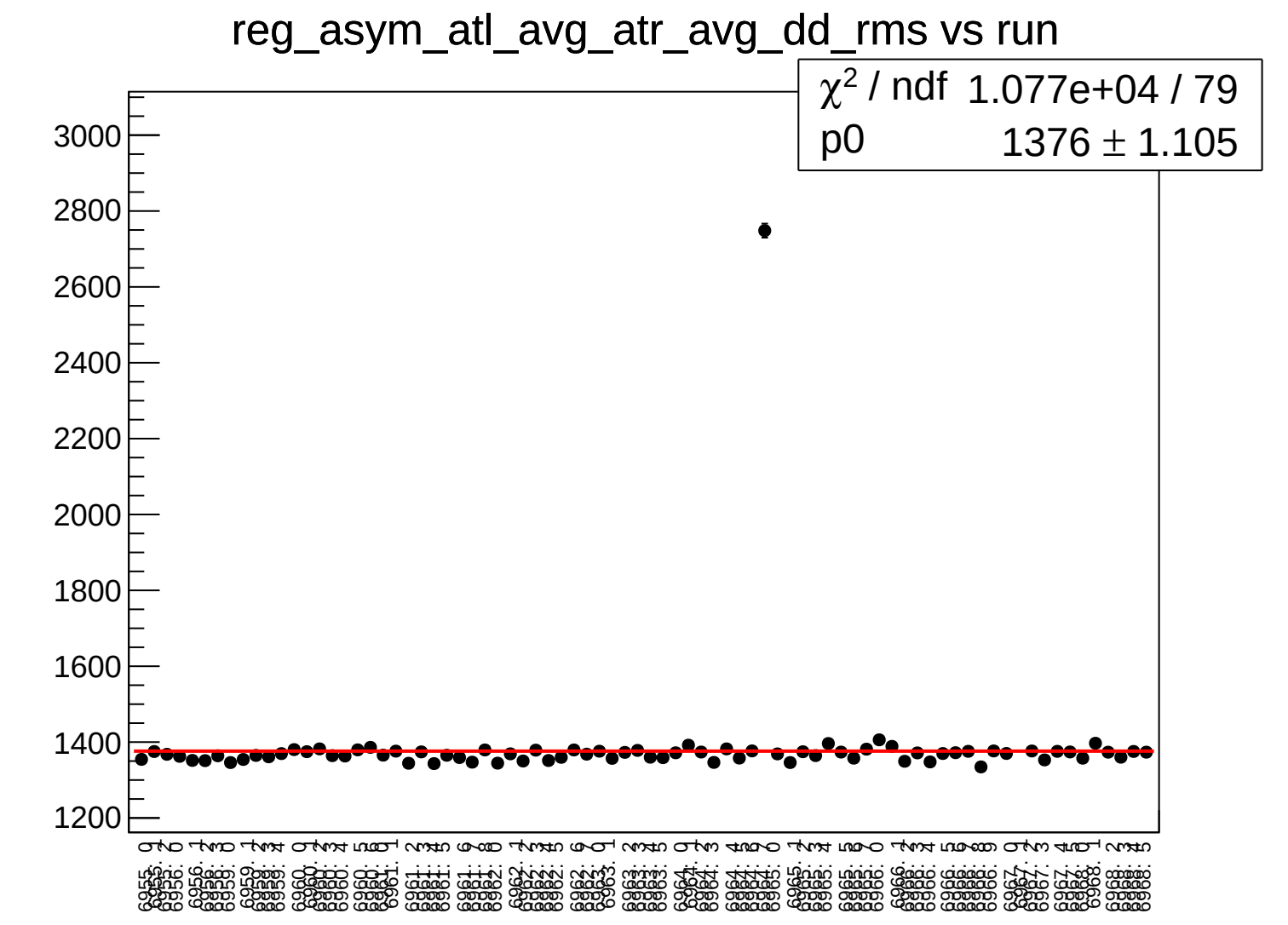

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 77.85 / 79
p0 3336 ± 7468
200
100
0
−100
−200
pull
Entries 80
Mean −75.09
Std Dev 103.1
2
1
0
−1
−2

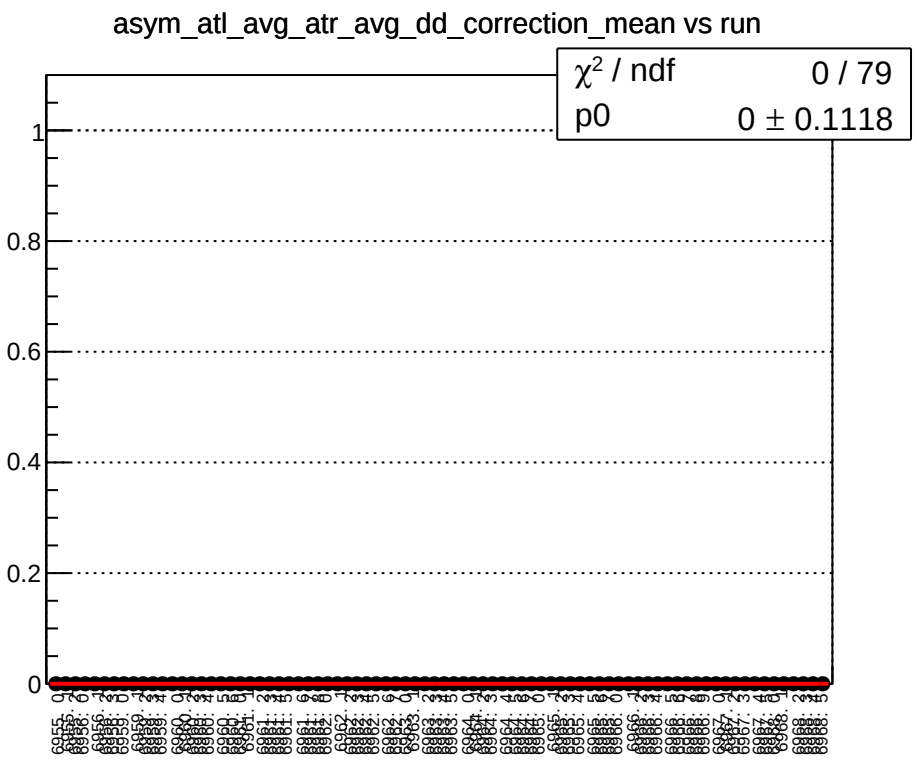

pull1D
Entries 80
Mean 0.018
Std Dev 0.9863
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

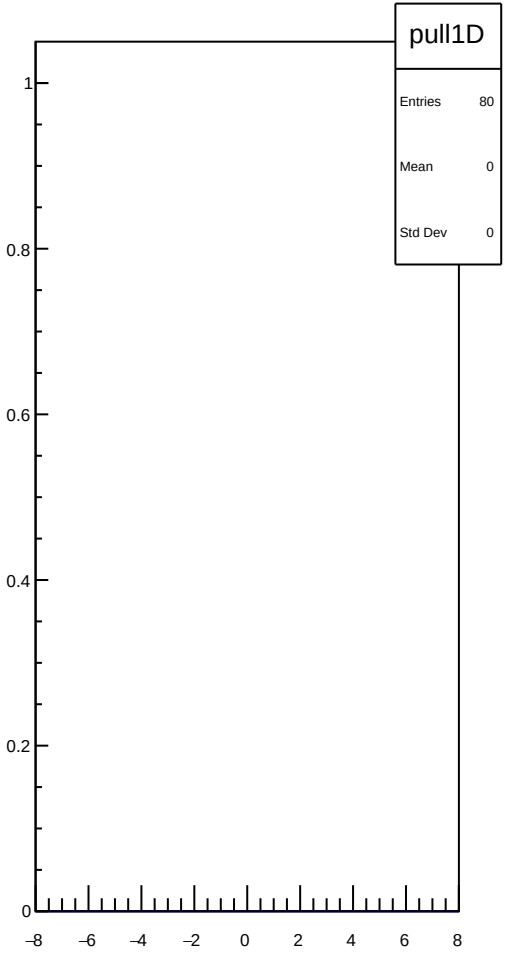

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.23e+04 / 79
p0 6576 ± 5.281
8500
8000
7500
7000
6500
6000
5500

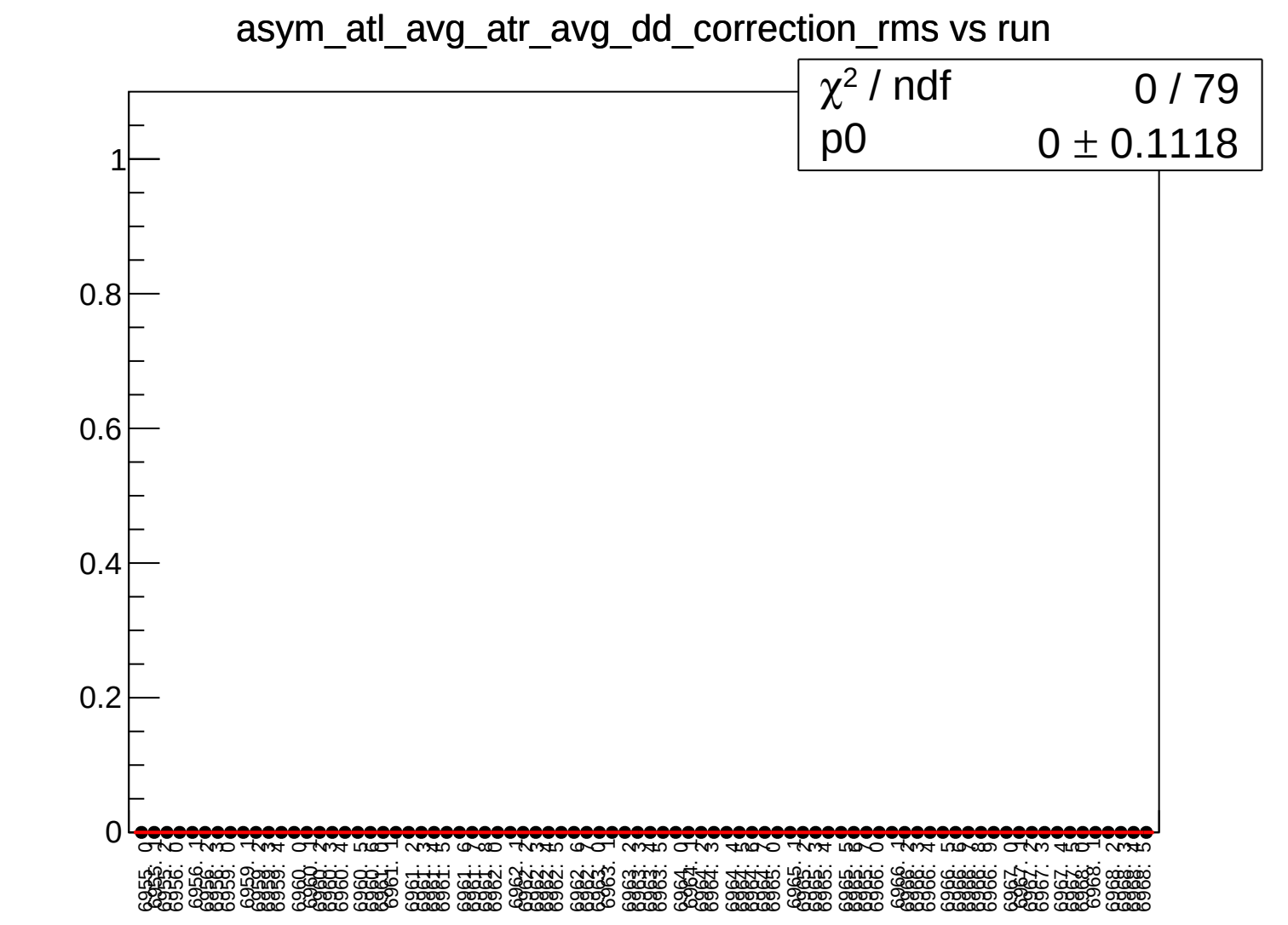

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 89.7 / 79
p0 2230 ± 1562
pull
Entries 80
Mean −220.3
Std Dev 253.6

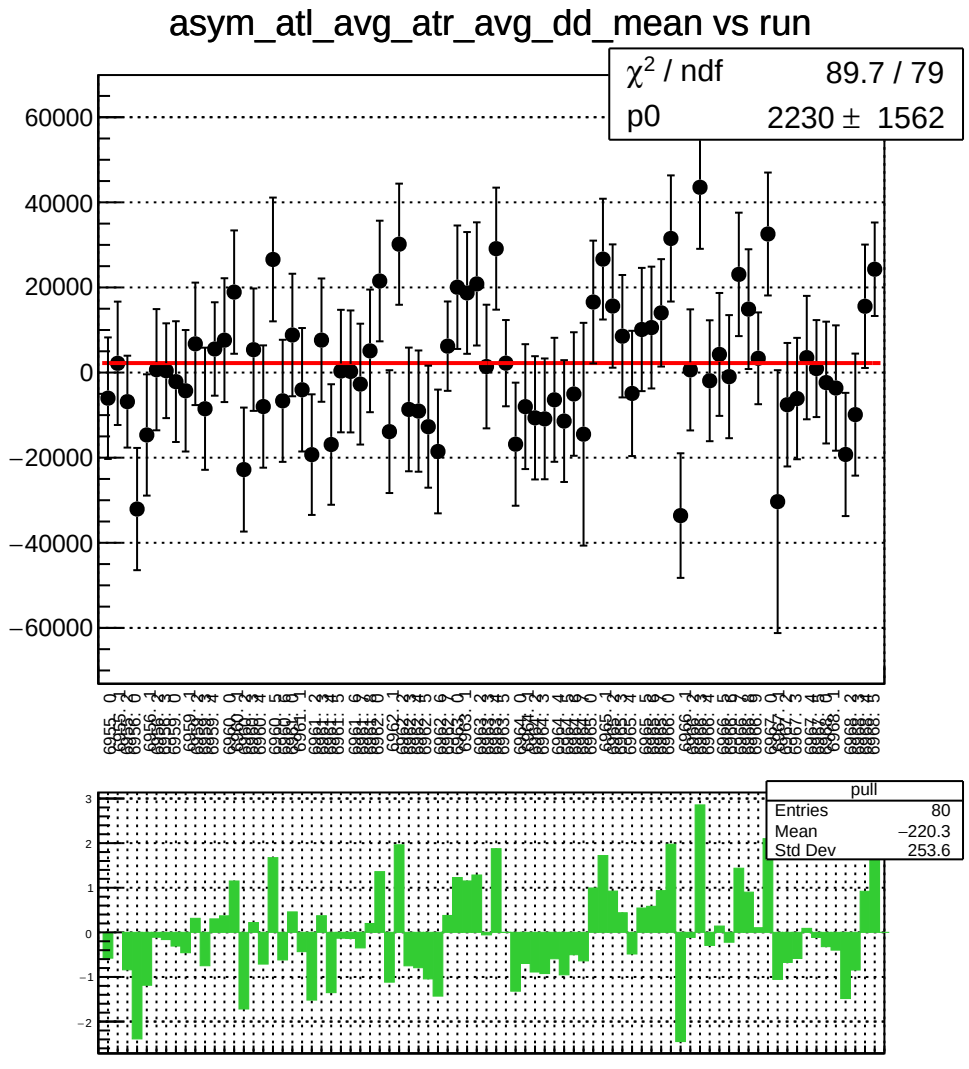

pull1D
Entries 80
Mean −0.01868
Std Dev 1.059

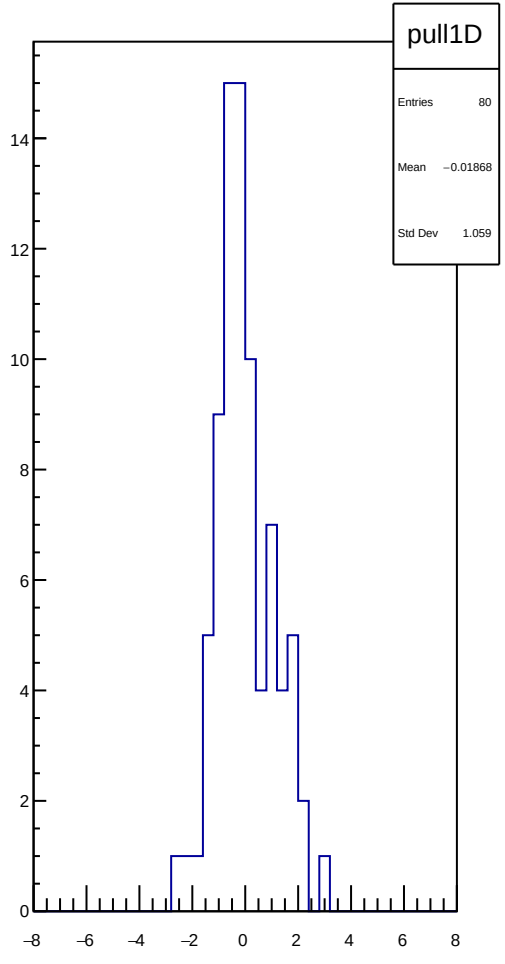

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.077e+04 / 79
p0 1376 ± 1.105
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

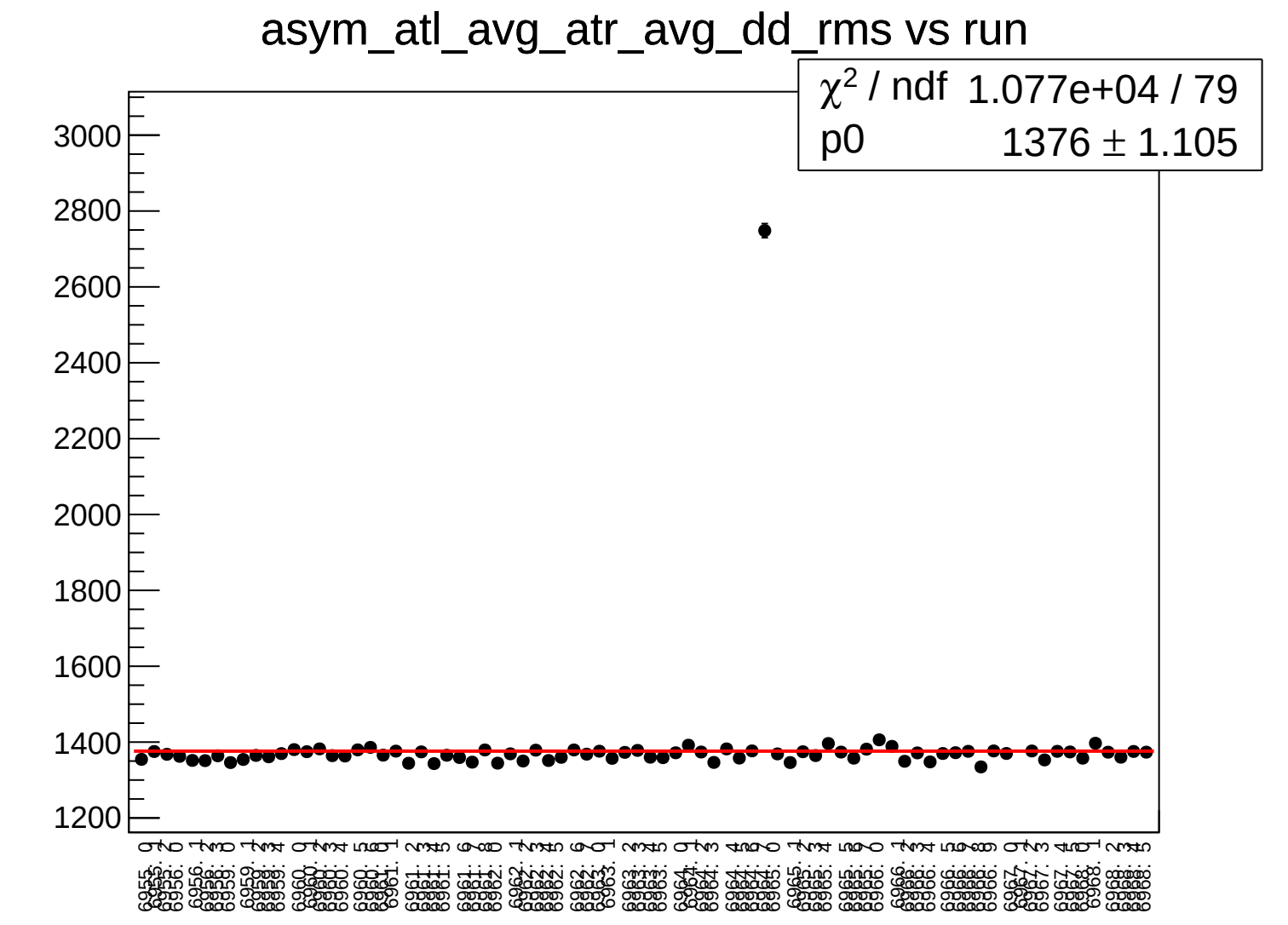

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 79
p0 0 ± 0.1118
1
0.8
0.6
0.4
0.2
0

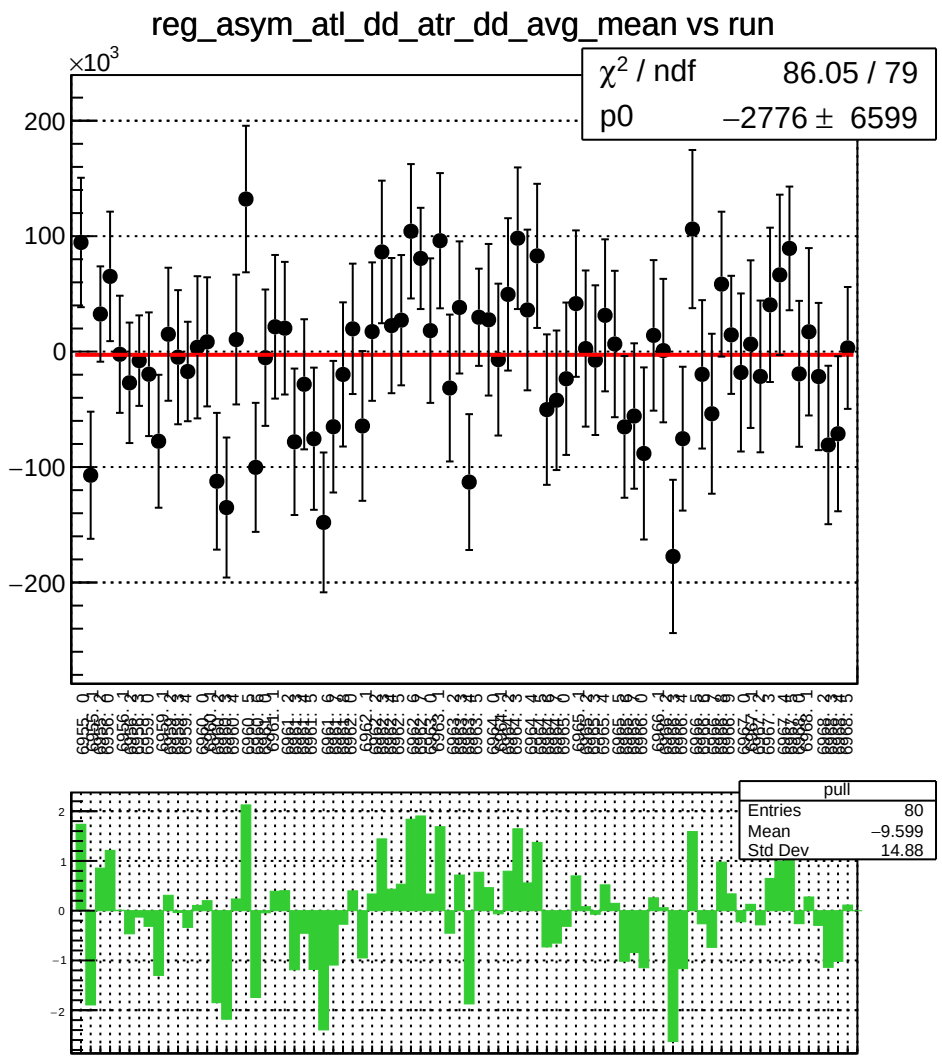

pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

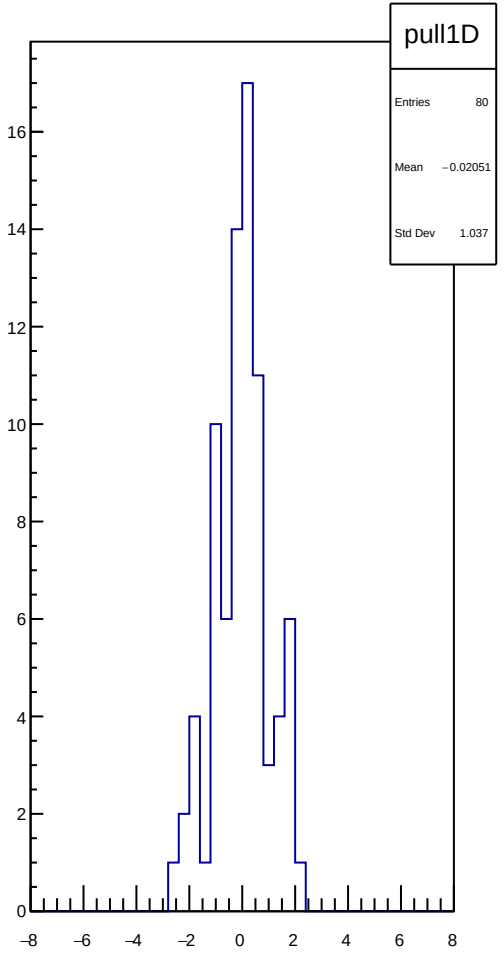

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 79
p0 0 ± 0.1118
1
0.8
0.6
0.4
0.2
0

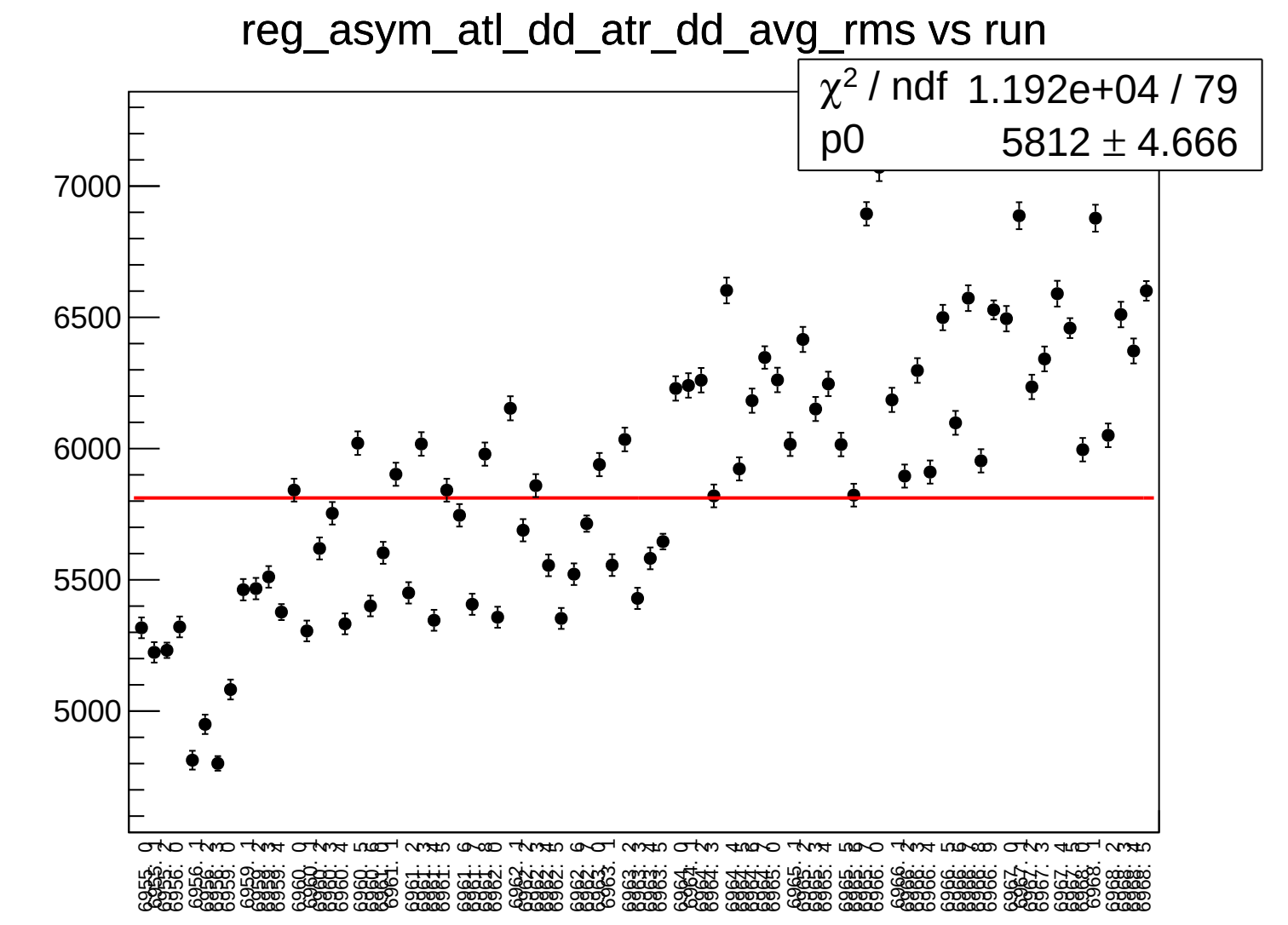

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 89.7 / 79
p0 2230 ± 1562
pull
Entries 80
Mean −220.3
Std Dev 253.6

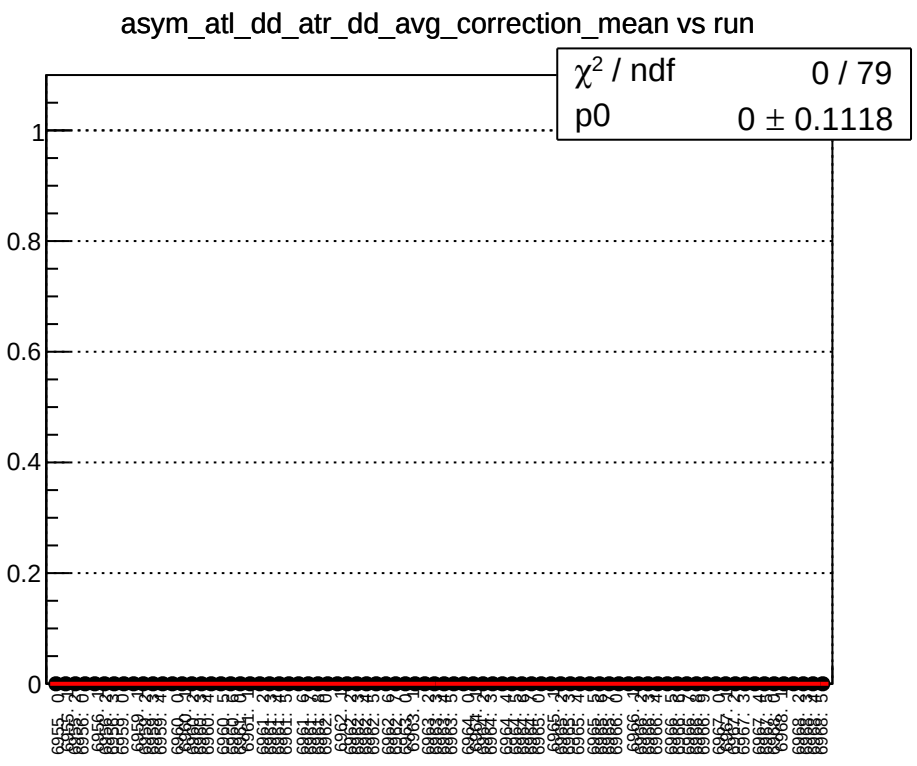

pull1D
Entries 80
Mean −0.01868
Std Dev 1.059

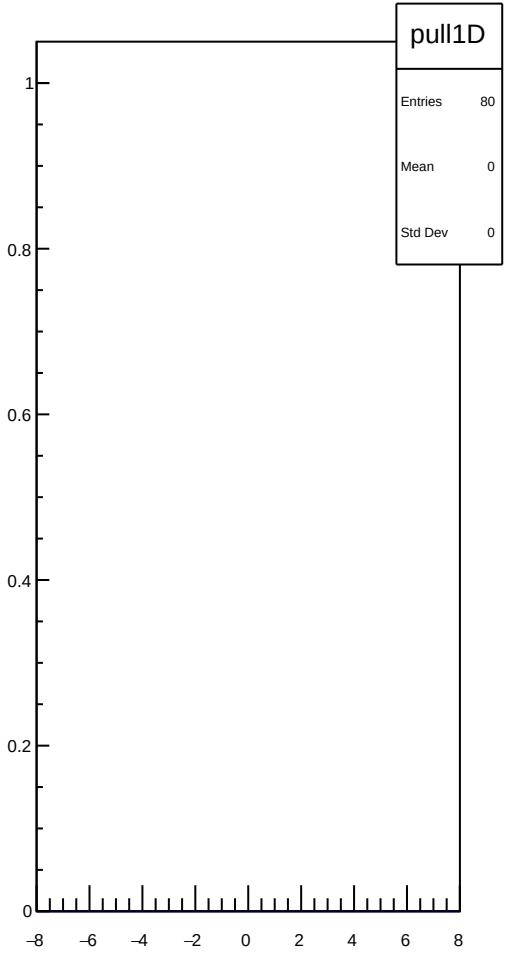

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.077e+04 / 79
p0 1376 ± 1.105
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

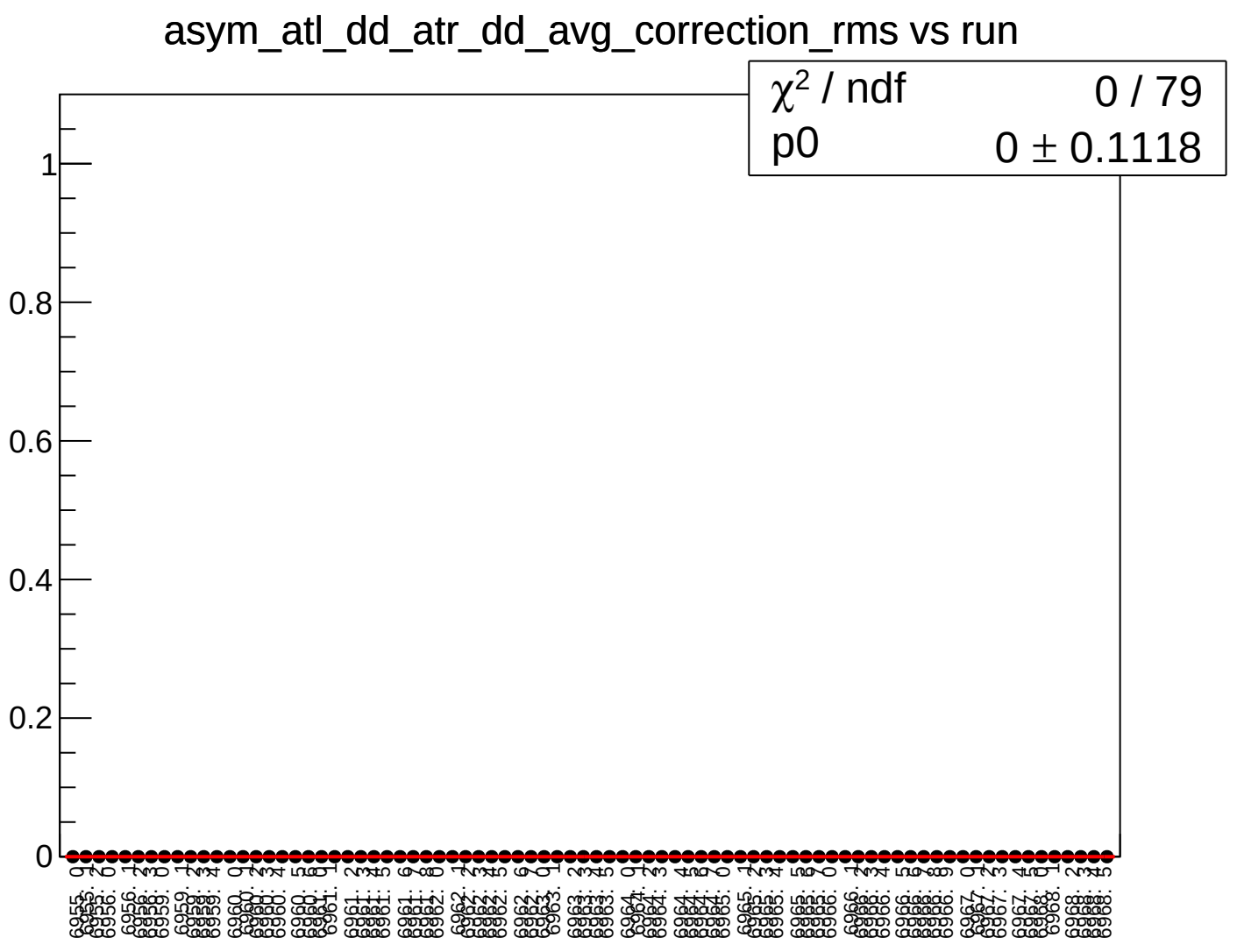

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 86.05 / 79
p0 −2776 ± 6599
200
100
0
−100
−200
pull
Entries 80
Mean −9.599
Std Dev 14.88
2
1
0
−1
−2

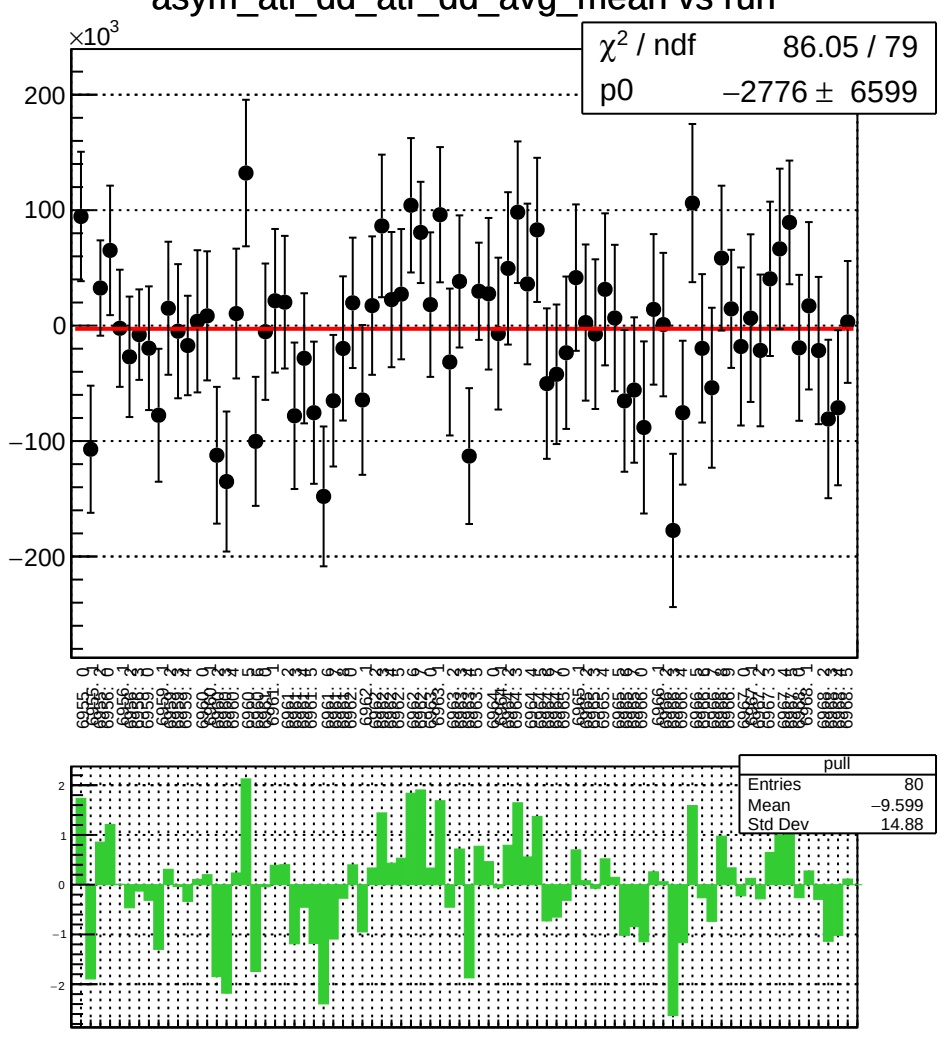

pull1D
Entries 80
Mean −0.02051
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

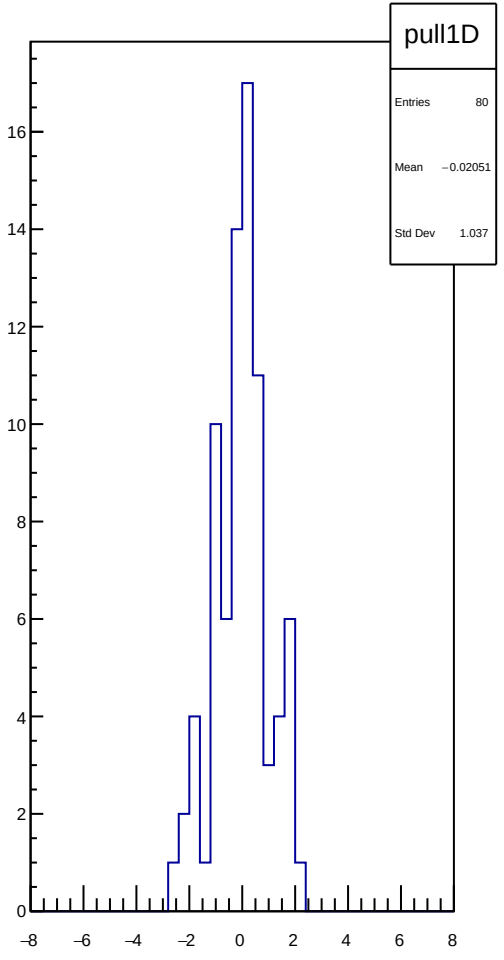

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 1.192e+04 / 79
p0 5812 ± 4.666
7000
6500
6000
5500
5000

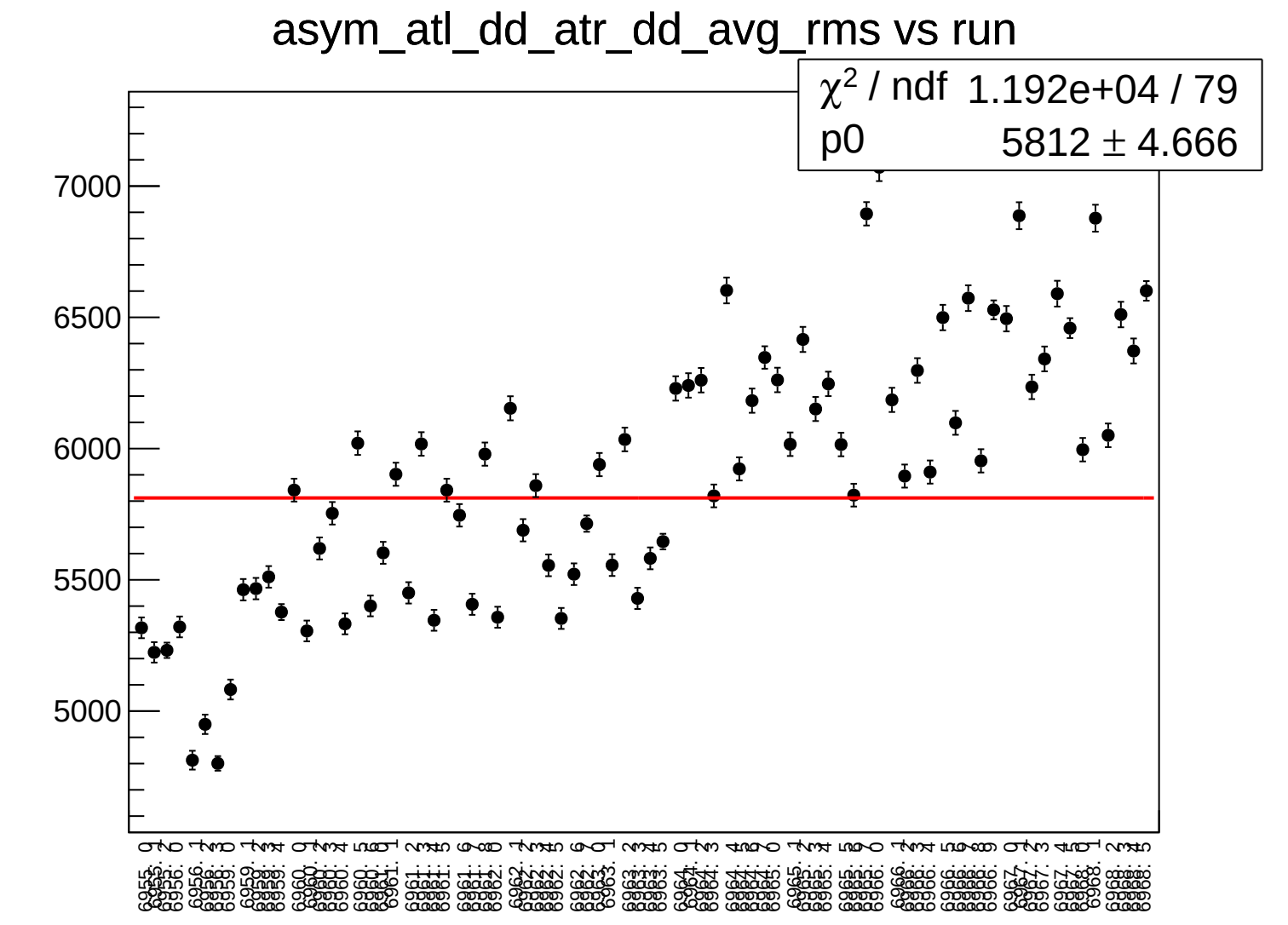

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 79
p0 0 ± 0.1118
1
0.8
0.6
0.4
0.2
0

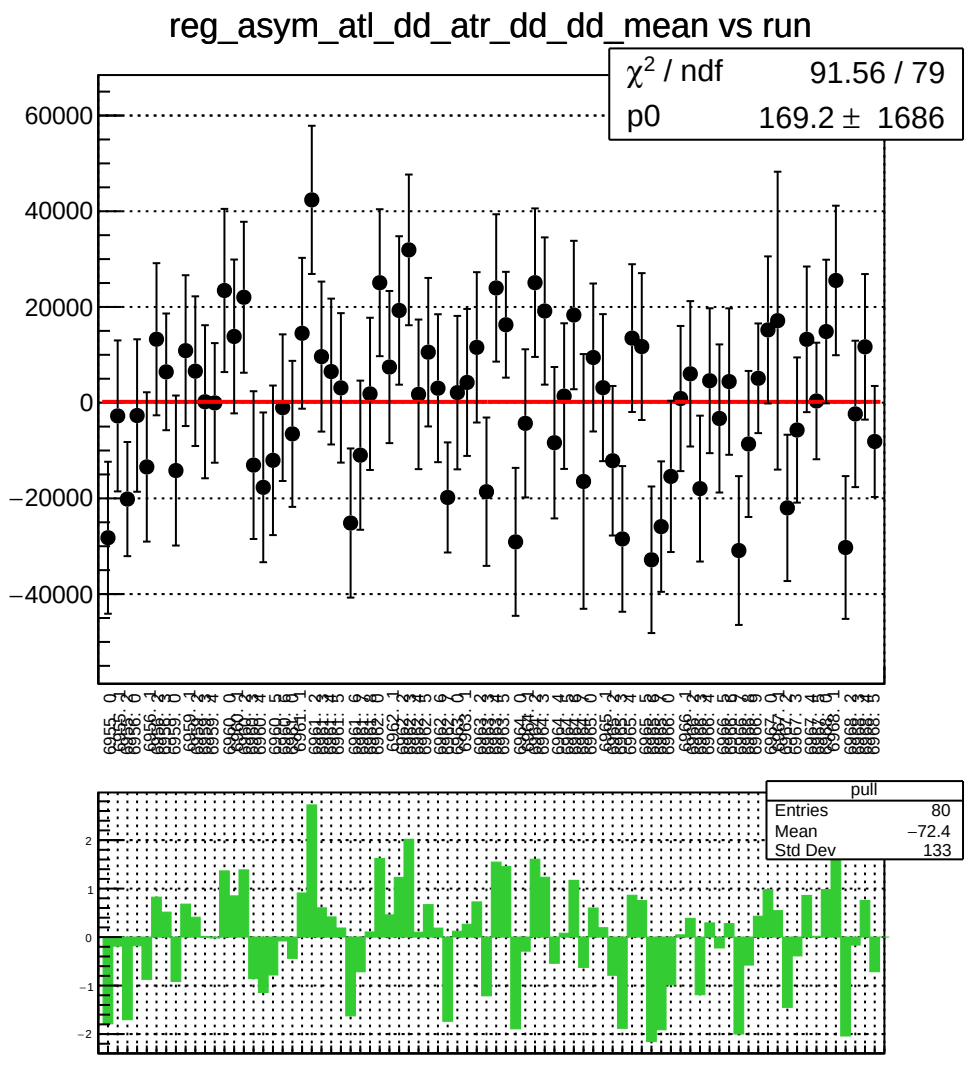

pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

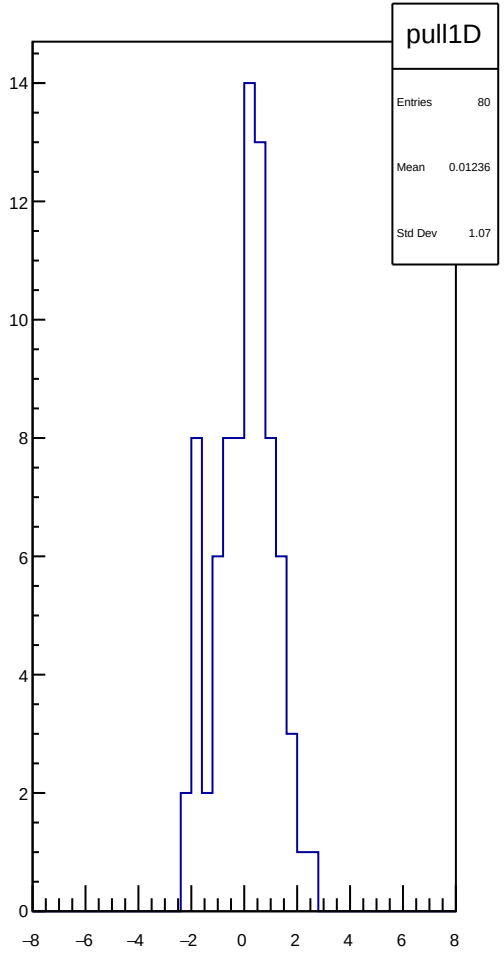

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 79
p0 0 ± 0.1118
1
0.8
0.6
0.4
0.2
0

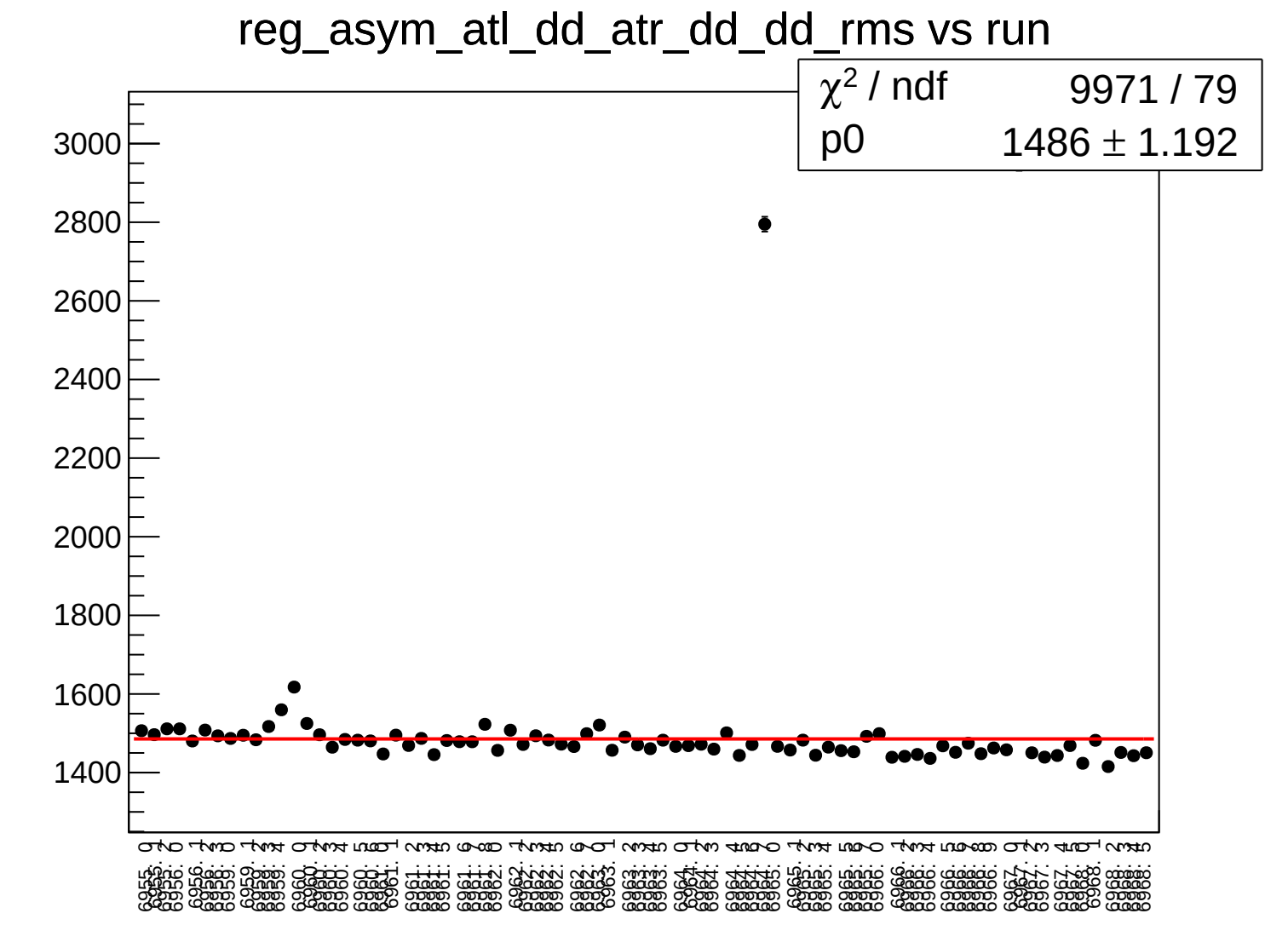

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 86.05 / 79
p0 −2776 ± 6599
200
100
0
−100
−200
pull
Entries 80
Mean −9.599
Std Dev 14.88
2
1
0
−1
−2

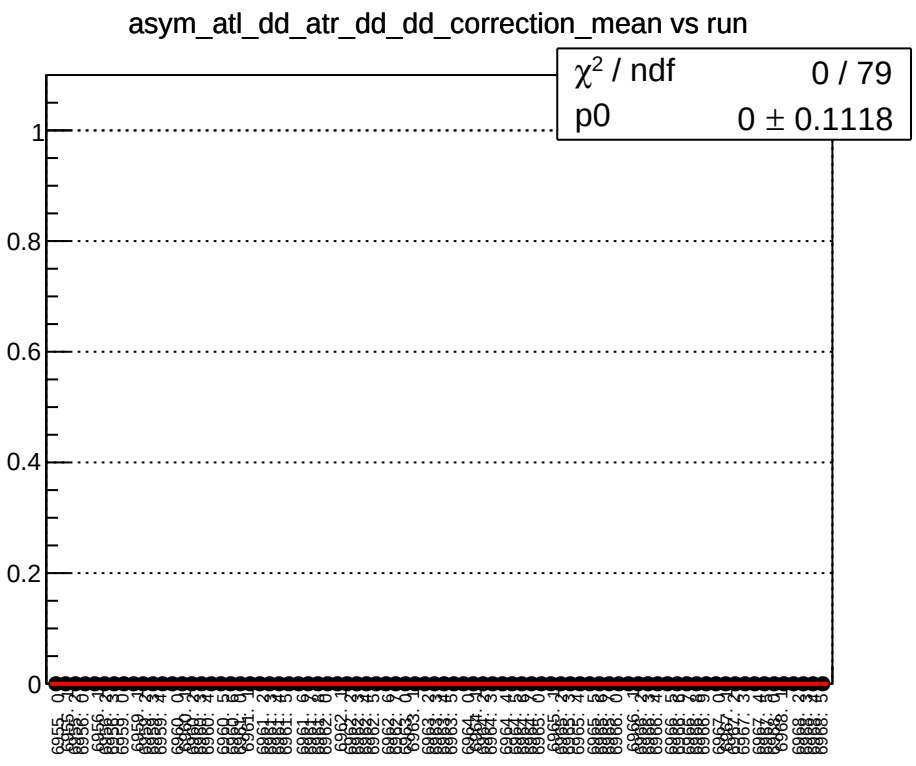

pull1D
Entries 80
Mean −0.02051
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

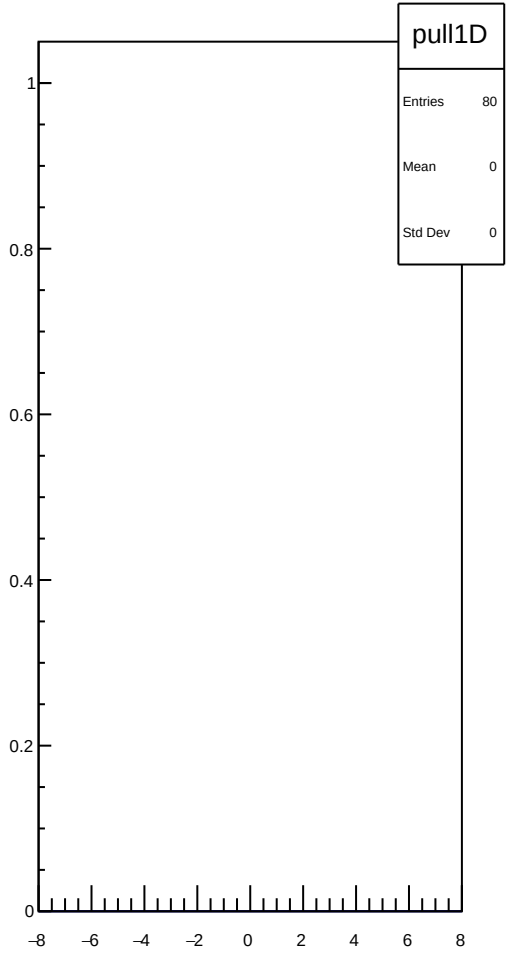

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.192e+04 / 79
p0 5812 ± 4.666
7000
6500
6000
5500
5000

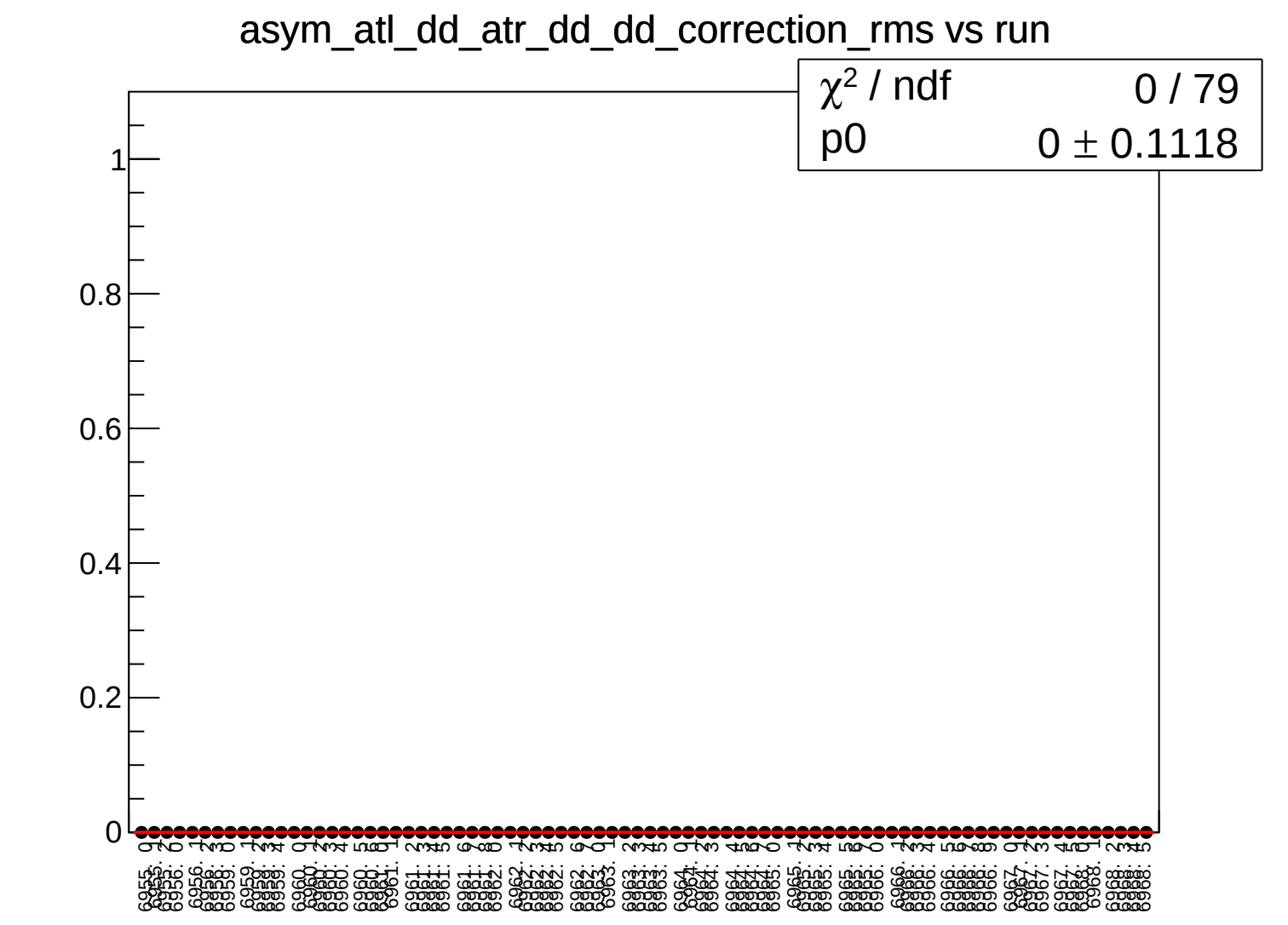

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 91.56 / 79
p0 169.2 ± 1686
60000
40000
20000
0
−20000
−40000
pull
Entries 80
Mean −72.4
Std Dev 133
2
1
0
−1
−2

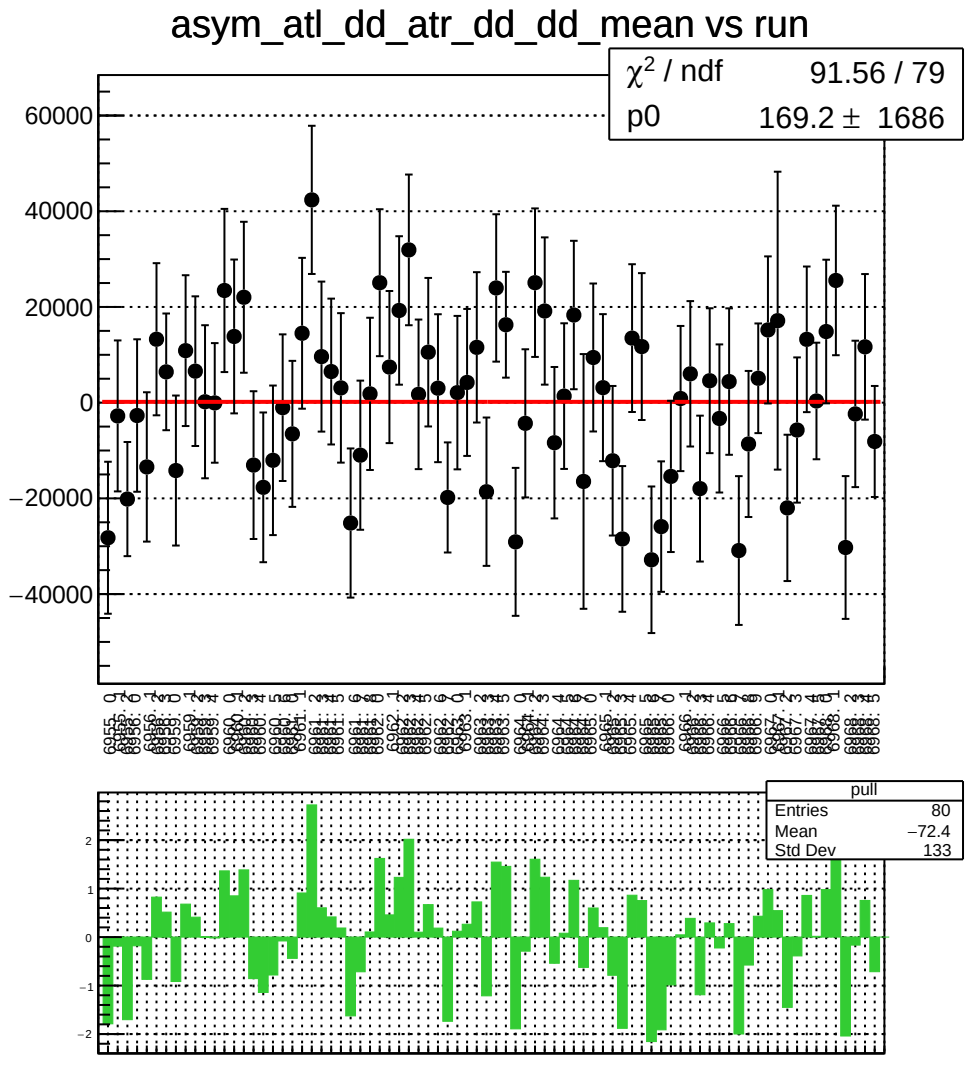

pull1D
Entries 80
Mean 0.01236
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

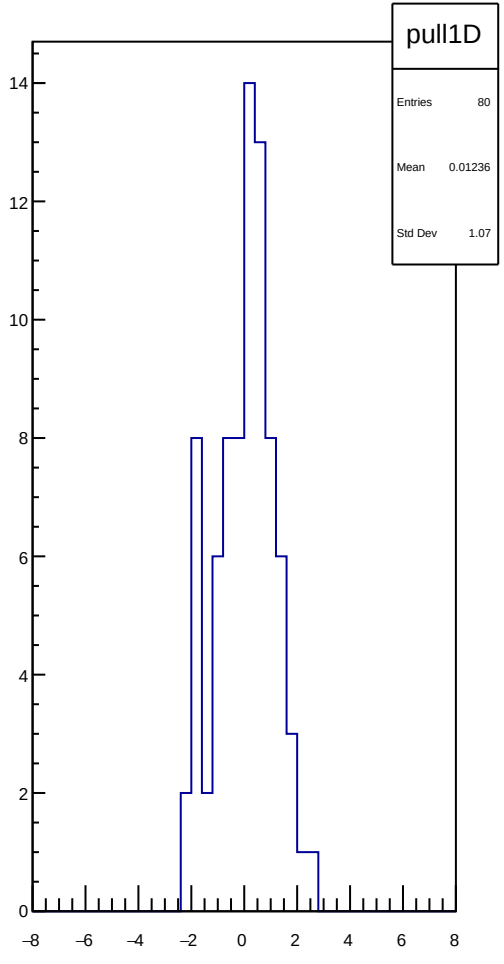

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 9971 / 79
p0 1486 ± 1.192
3000
2800
2600
2400
2200
2000
1800
1600
1400

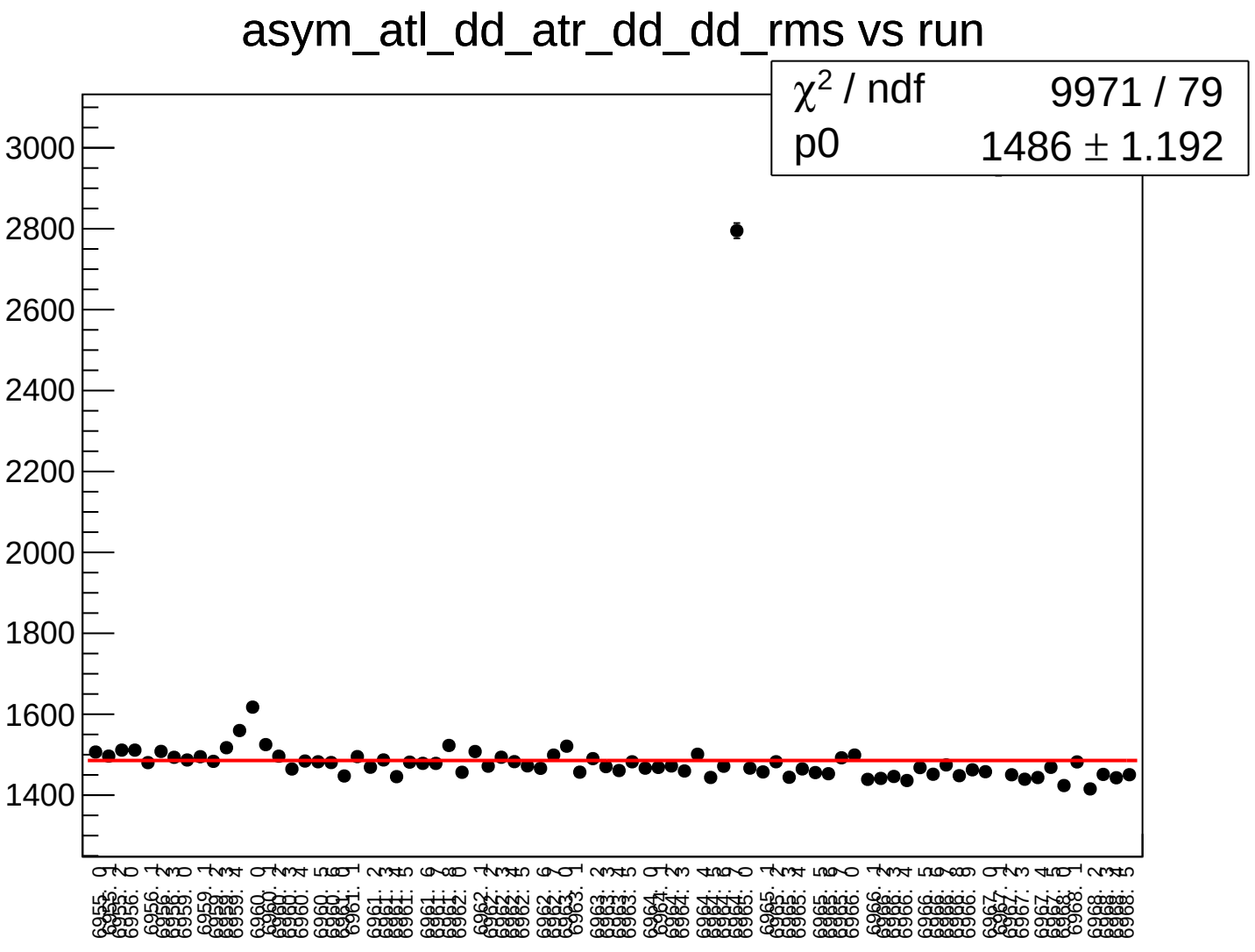

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 79
p0 0 ± 0.1118
1
0.8
0.6
0.4
0.2
0

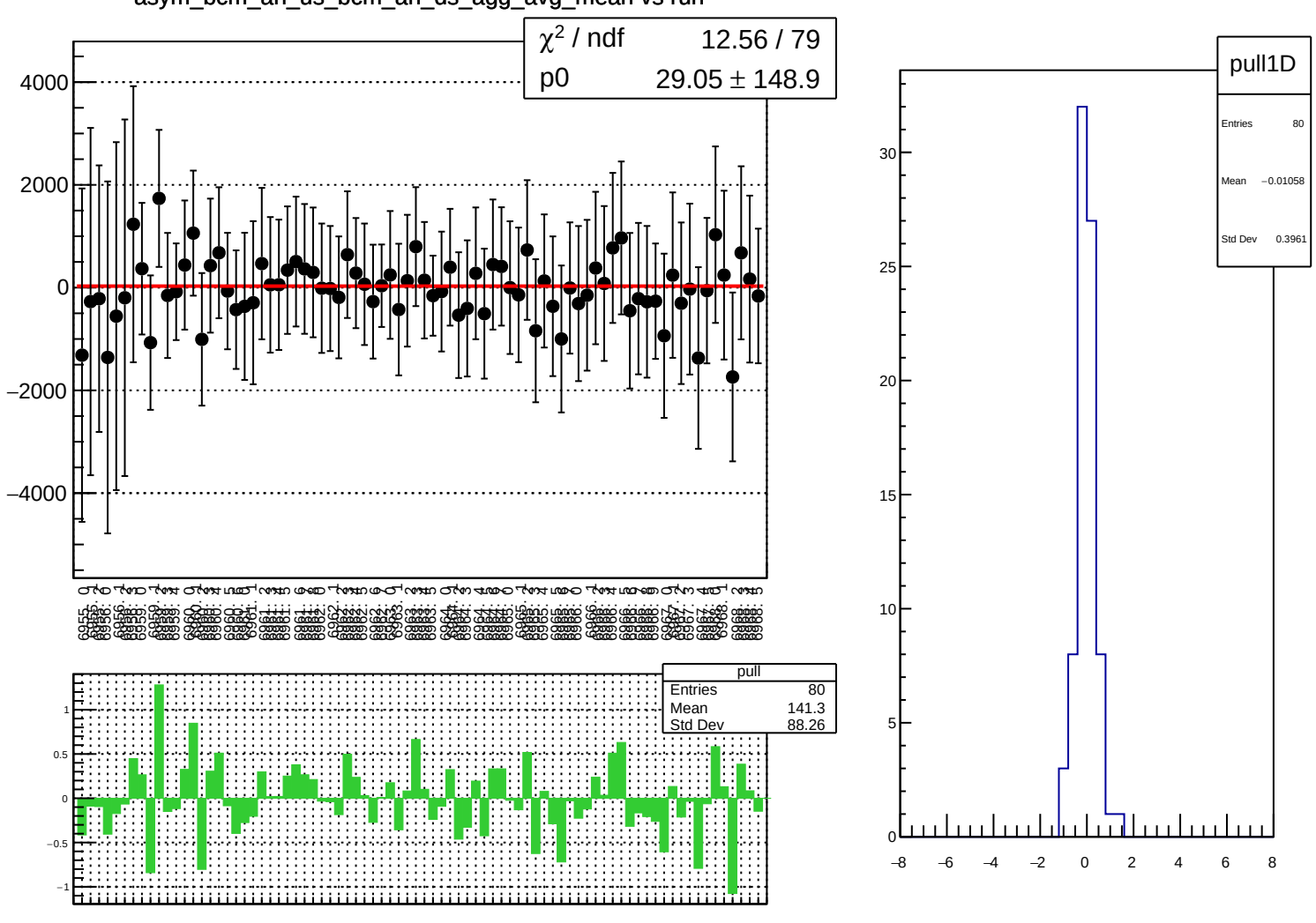

pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

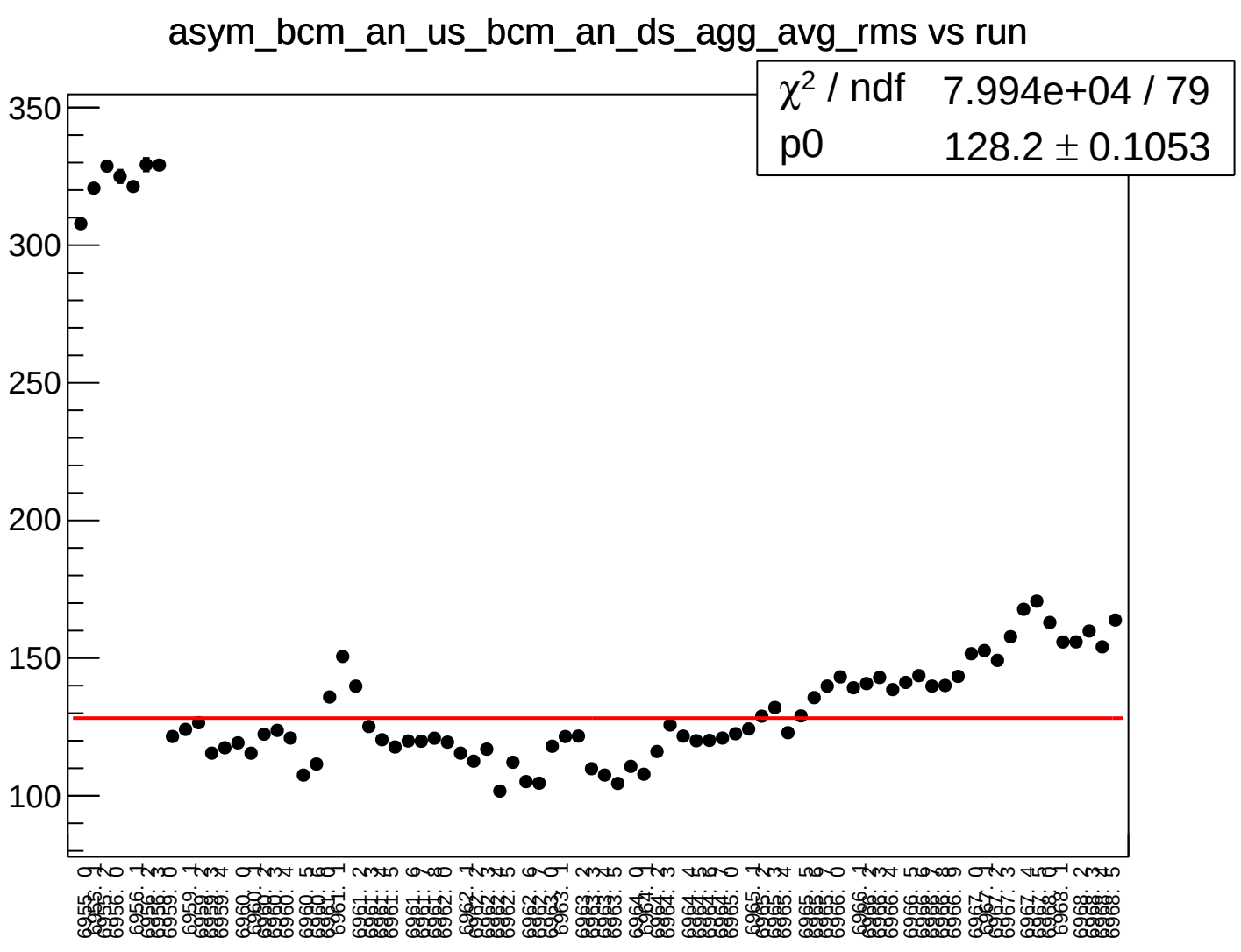

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 79
p0 0 ± 0.1118
1
0.8
0.6
0.4
0.2
0

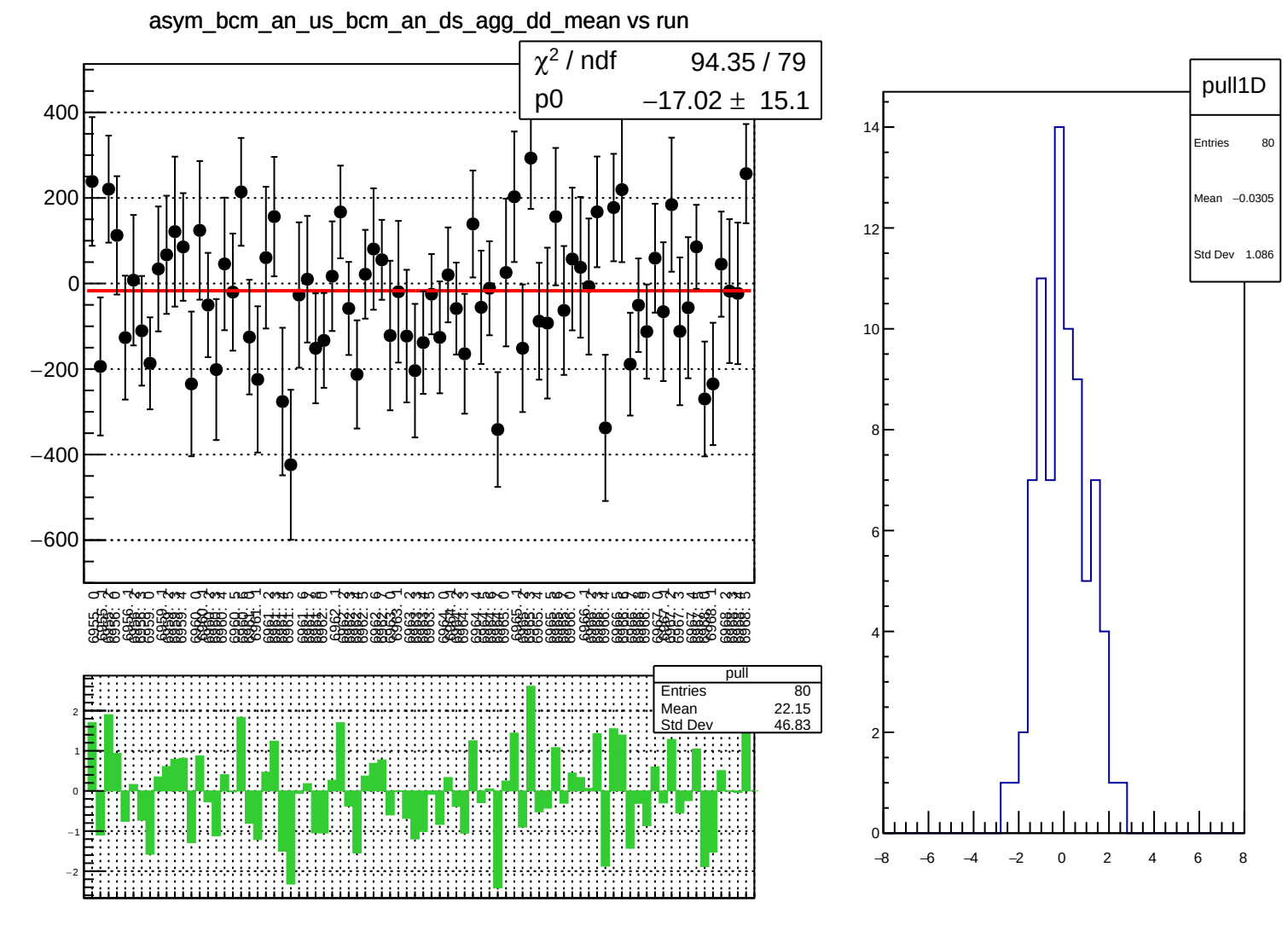

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 91.56 / 79
p0 169.2 ± 1686
60000
40000
20000
0
−20000
−40000
pull
Entries 80
Mean −72.4
Std Dev 133
2
1
0
−1
−2

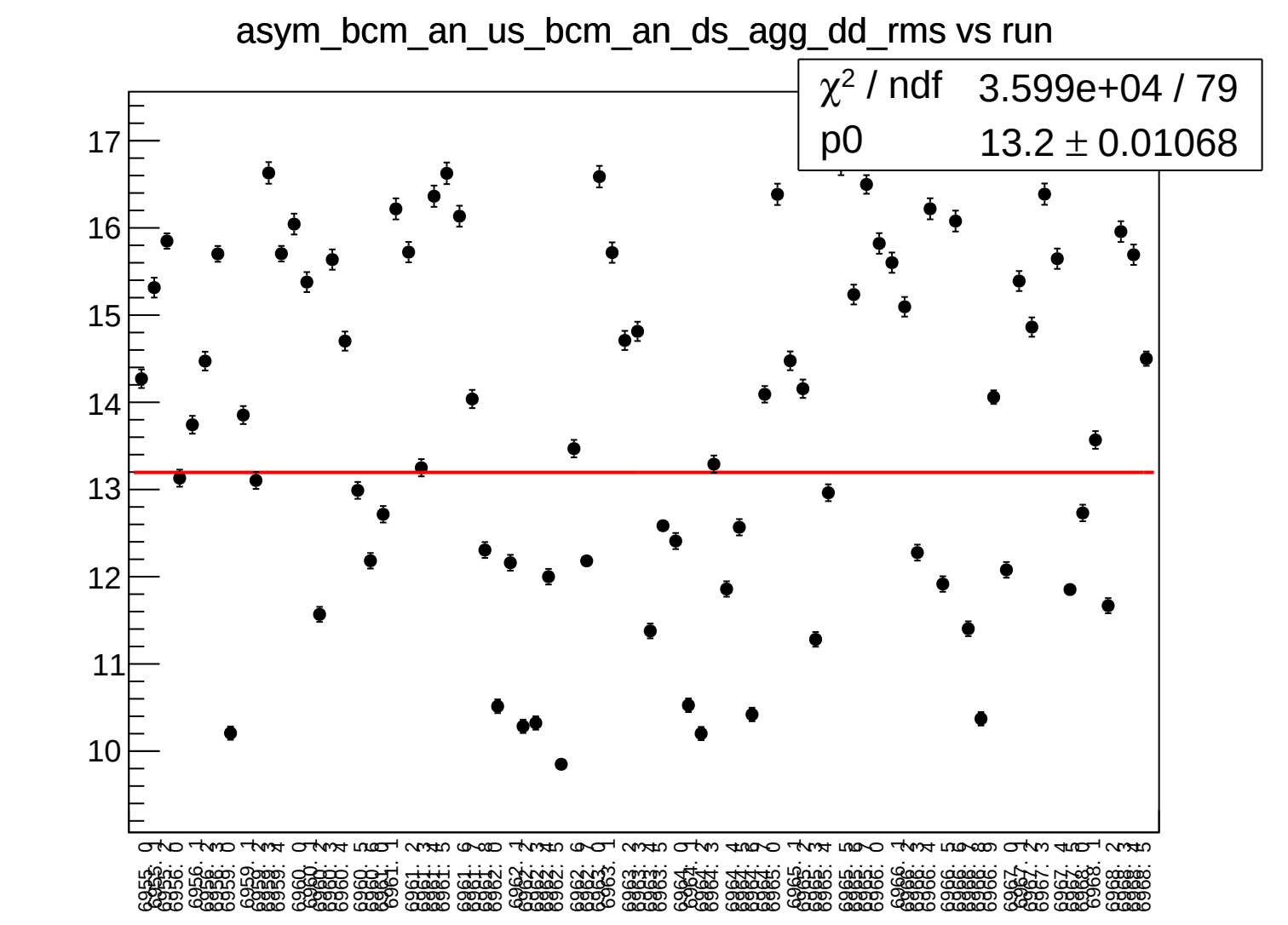

pull1D
Entries 80
Mean 0.01236
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

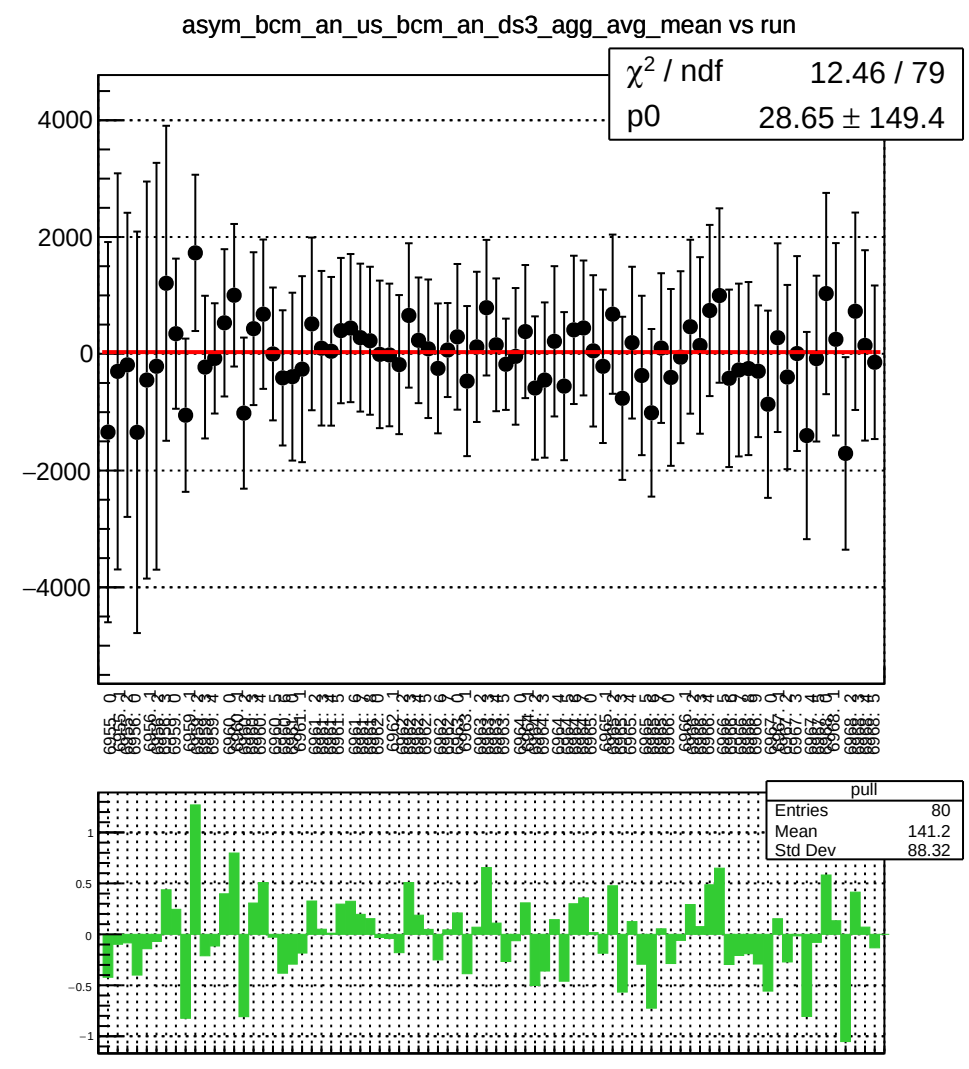

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 9971 / 79
p0 1486 ± 1.192
3000
2800
2600
2400
2200
2000
1800
1600
1400

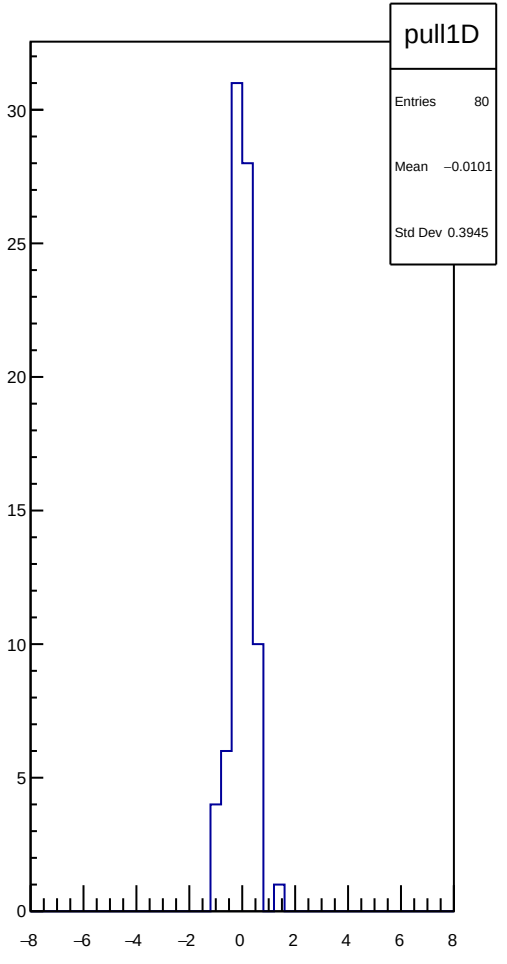

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.56 / 79
p0 29.05 ± 148.9
4000
2000
0
−2000
−4000
pull
Entries 80
Mean 141.3
Std Dev 88.26
1
0.5
0
−0.5
−1
pull1D
Entries 80
Mean −0.01058
Std Dev 0.3961
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

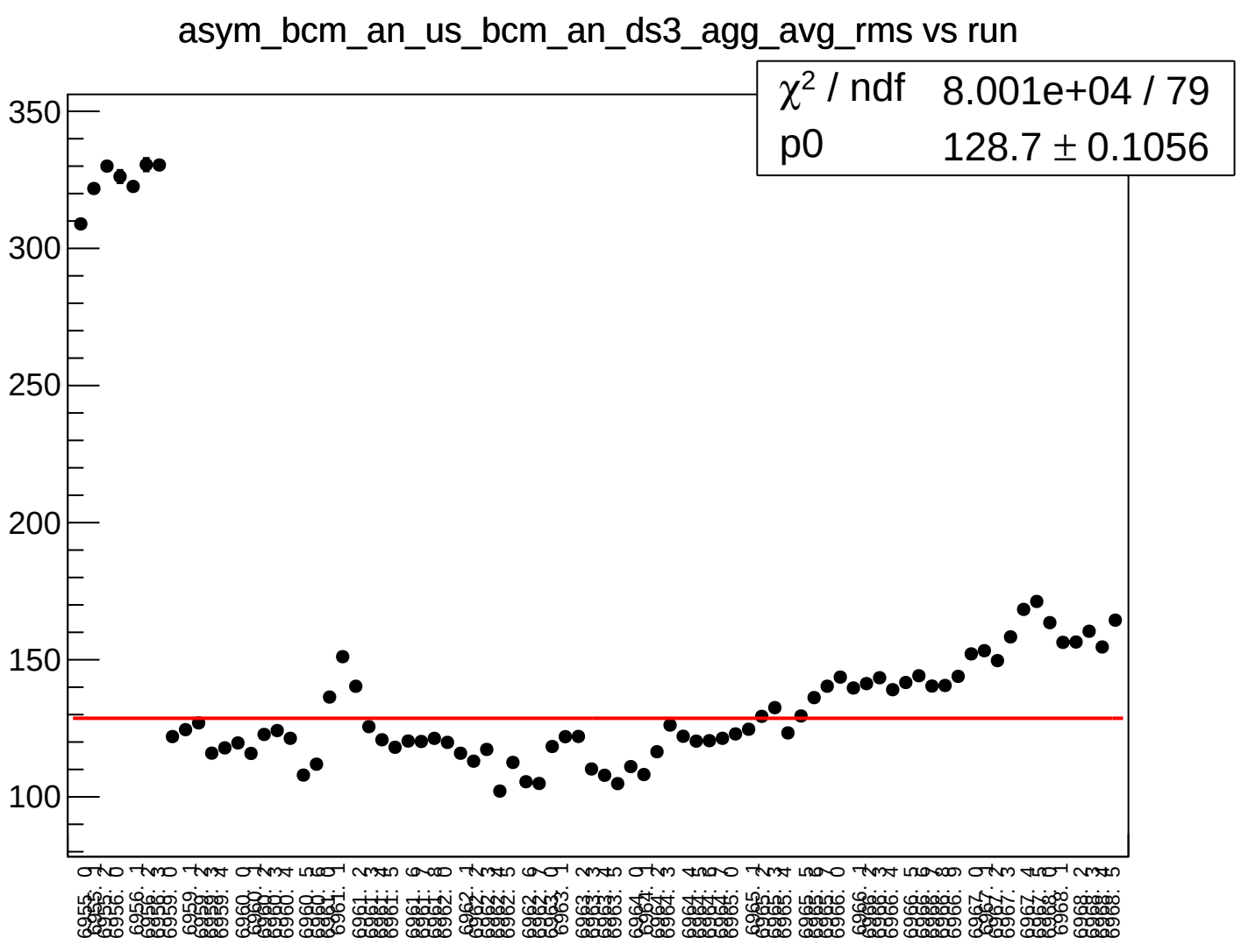

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7.994e+04 / 79
p0 128.2 ± 0.1053
350
300
250
200
150
100

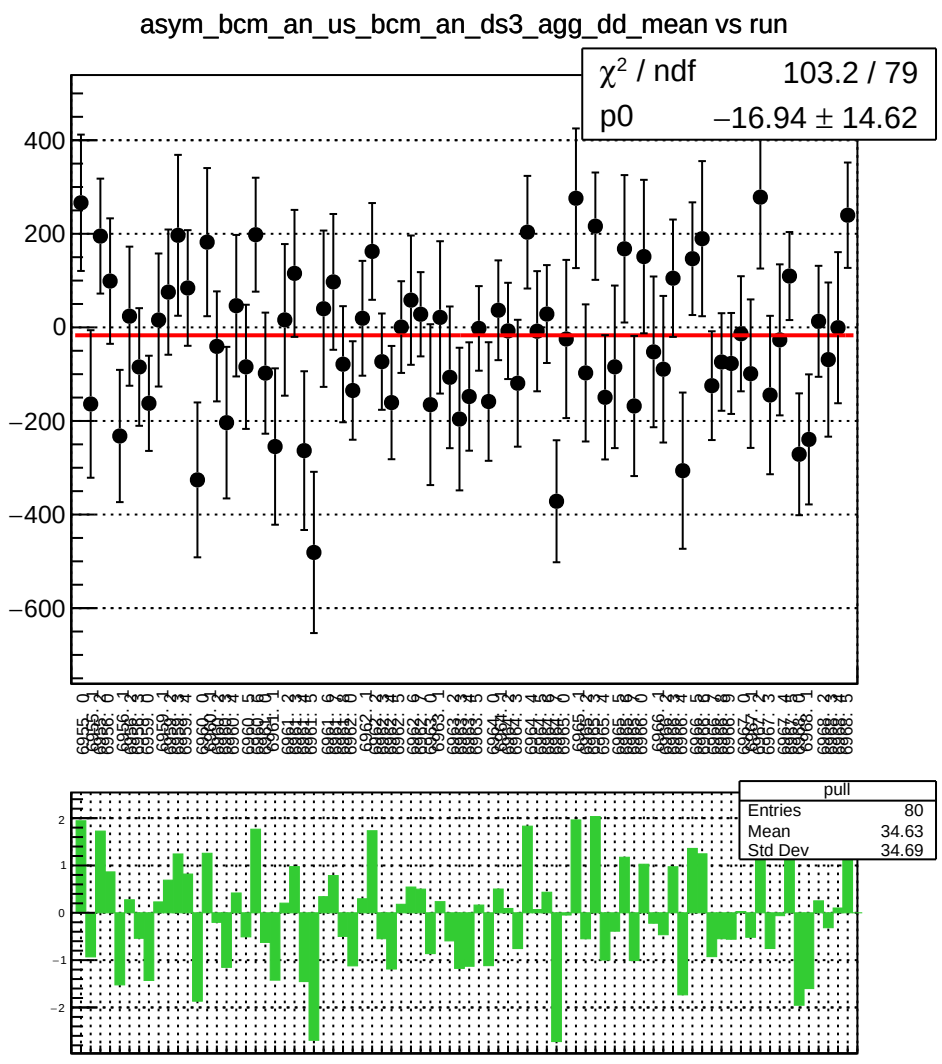

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 94.35 / 79
p0 −17.02 ± 15.1
400
200
0
−200
−400
−600
pull
Entries 80
Mean 22.15
Std Dev 46.83
2
1
0
−1
−2
pull1D
Entries 80
Mean −0.0305
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

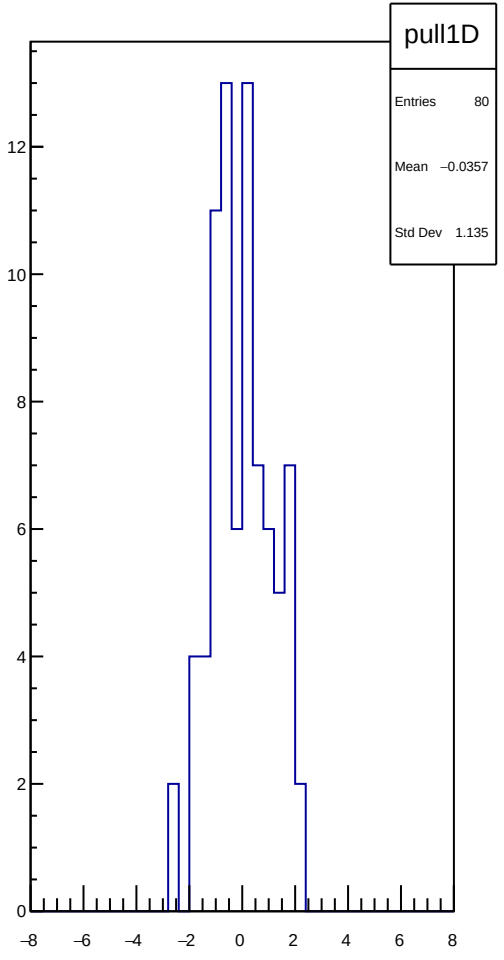

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3.599e+04 / 79
p0 13.2 ± 0.01068
17
16
15
14
13
12
11
10

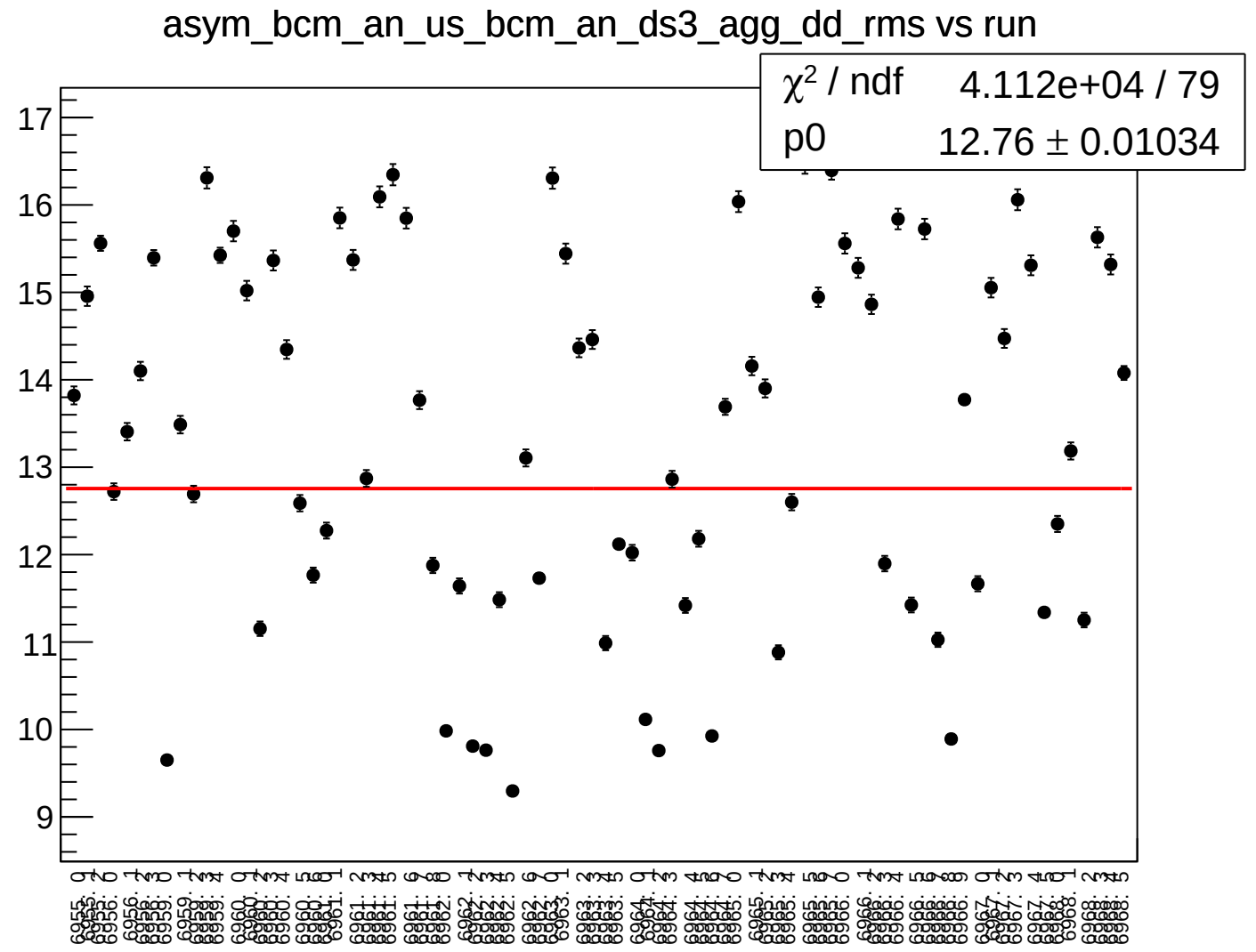

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 12.46 / 79
p0 28.65 ± 149.4
4000
2000
0
−2000
−4000
pull
Entries 80
Mean 141.2
Std Dev 88.32
1
0.5
0
−0.5
−1

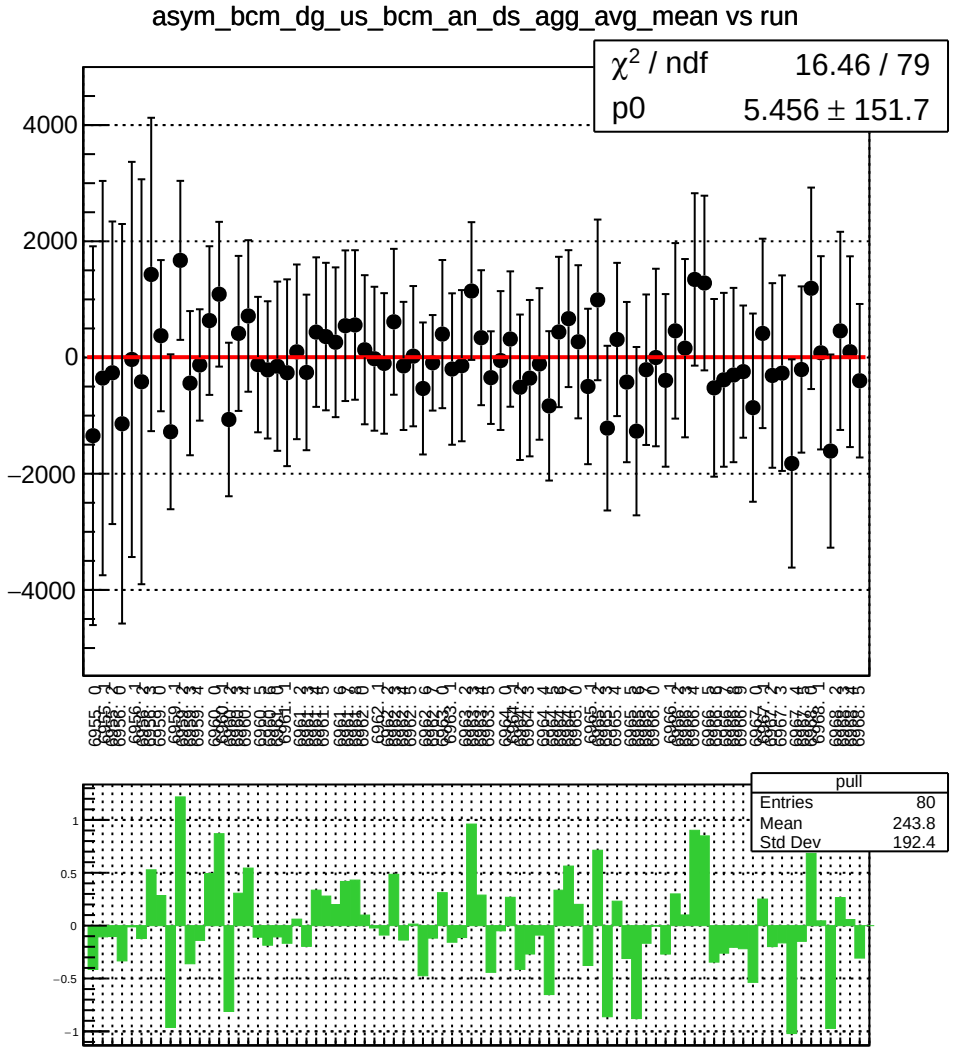

pull1D
Entries 80
Mean −0.0101
Std Dev 0.3945
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

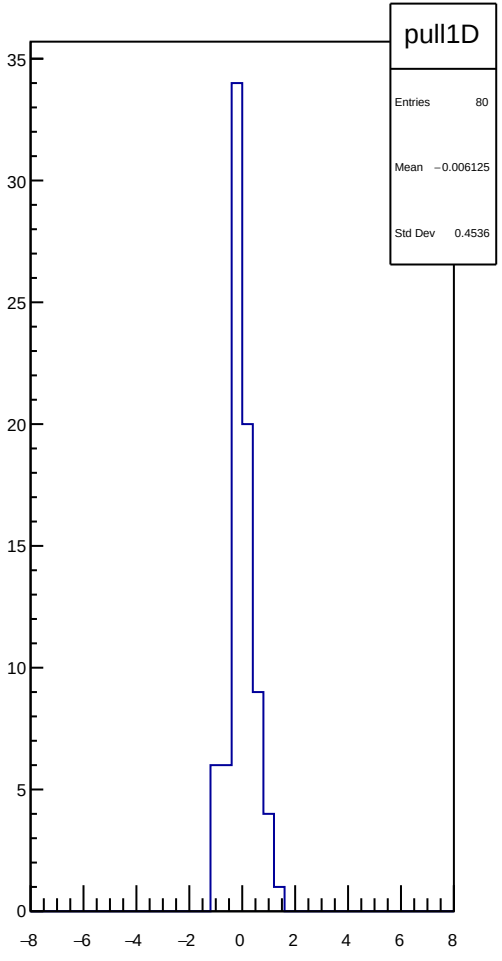

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 8.001e+04 / 79
p0 128.7 ± 0.1056
350
300
250
200
150
100


asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 103.2 / 79
p0 −16.94 ± 14.62
pull
Entries 80
Mean 34.63
Std Dev 34.69


pull1D
Entries 80
Mean −0.0357
Std Dev 1.135


asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 4.112e+04 / 79
p0 12.76 ± 0.01034
17
16
15
14
13
12
11
10
9


asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 16.46 / 79
p0 5.456 ± 151.7
4000
2000
0
−2000
−4000
pull
Entries 80
Mean 243.8
Std Dev 192.4
1
0.5
0
−0.5
−1


pull1D
Entries 80
Mean −0.006125
Std Dev 0.4536
35
30
25
20
15
10
5
0
−8
−6
−4
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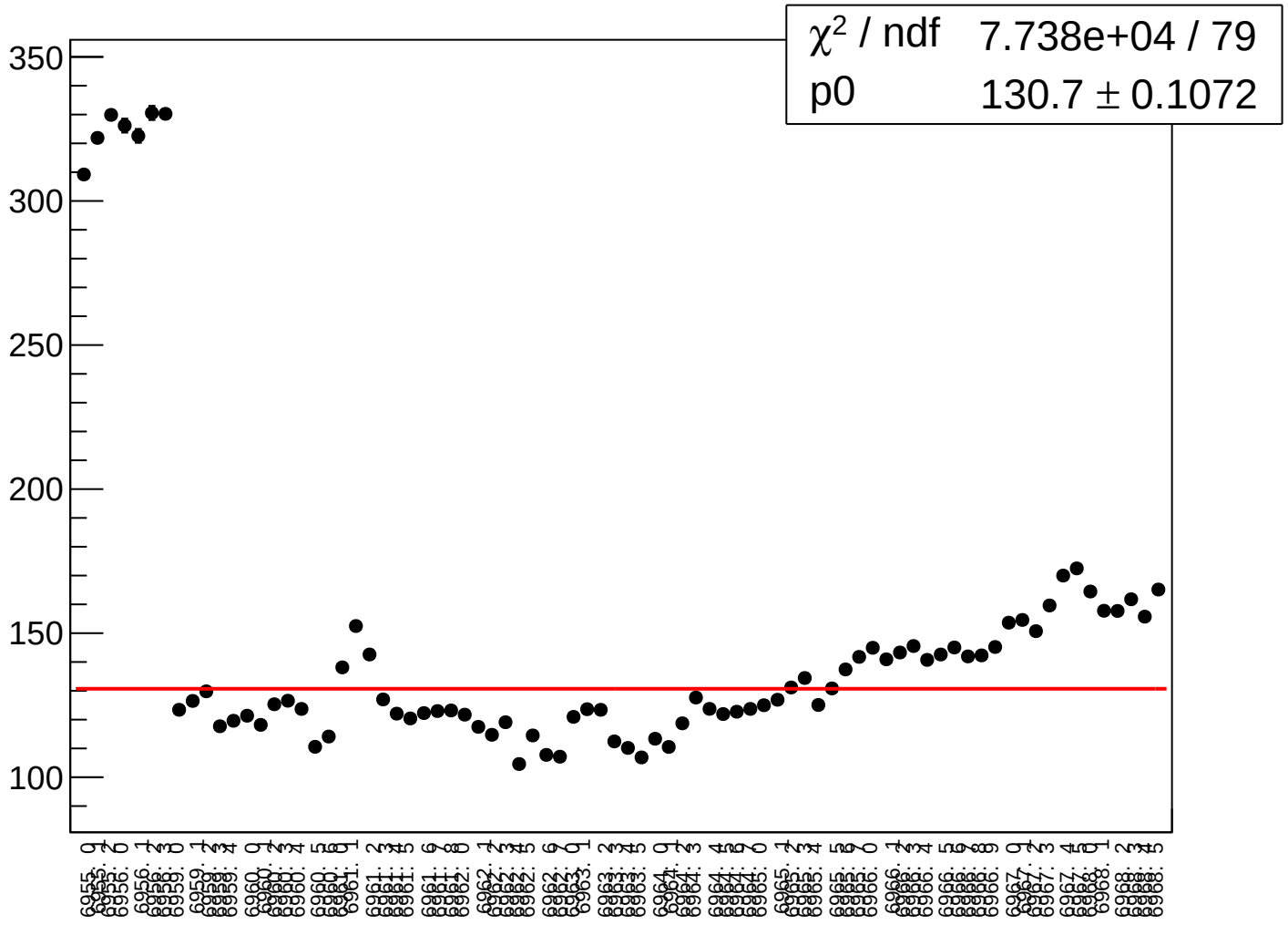
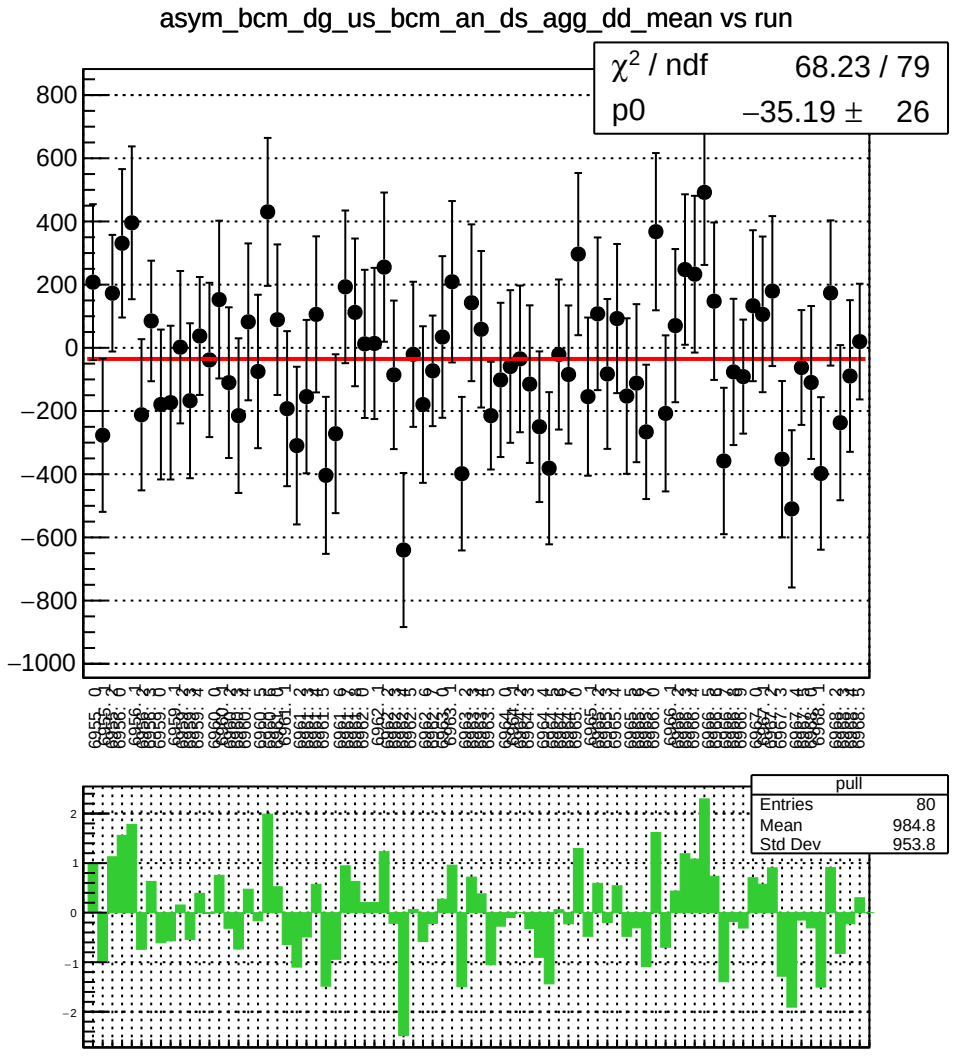
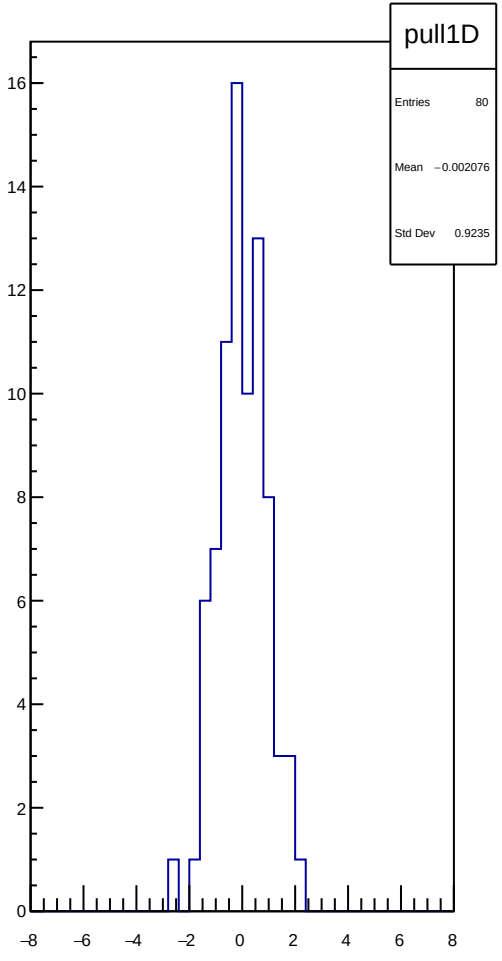
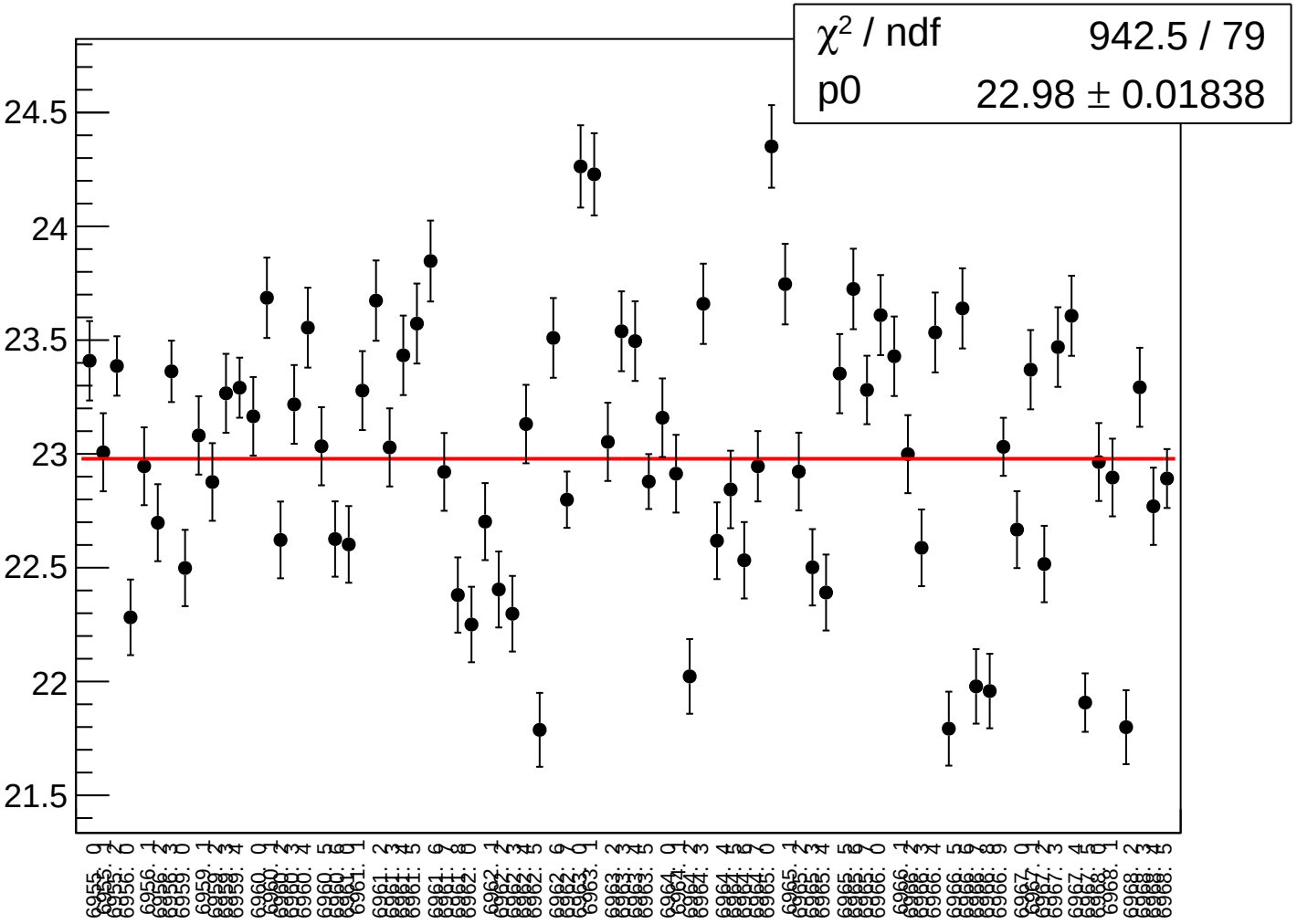
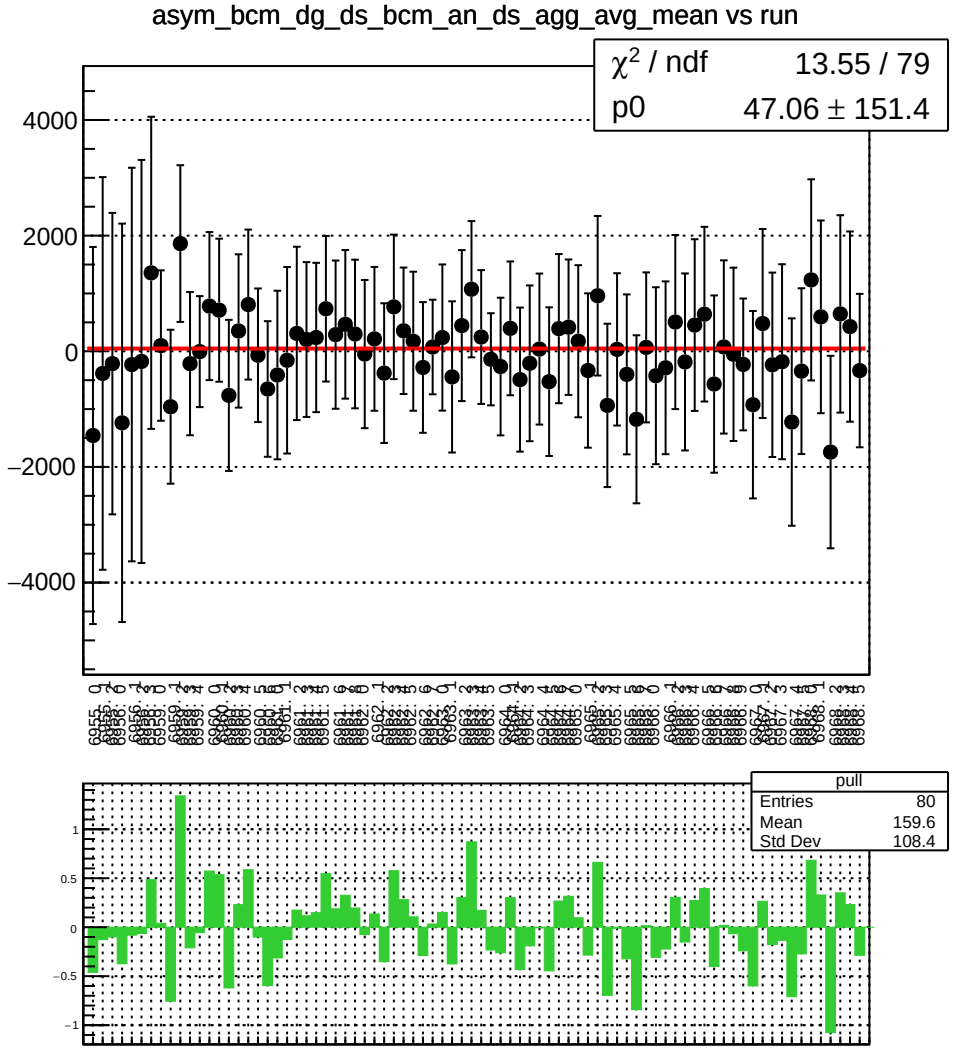
0
2
4
6
8

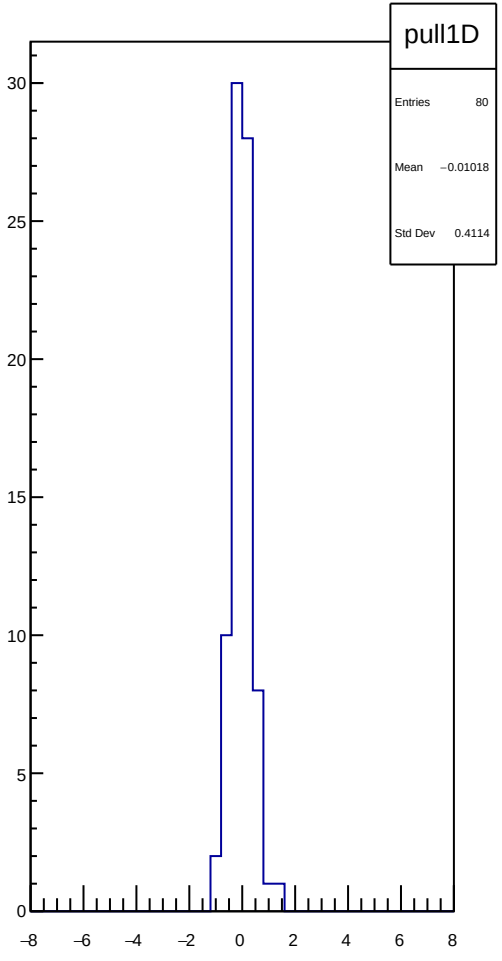

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7.738e+04 / 79
p0 130.7 ± 0.1072
350
300
250
200
150
100

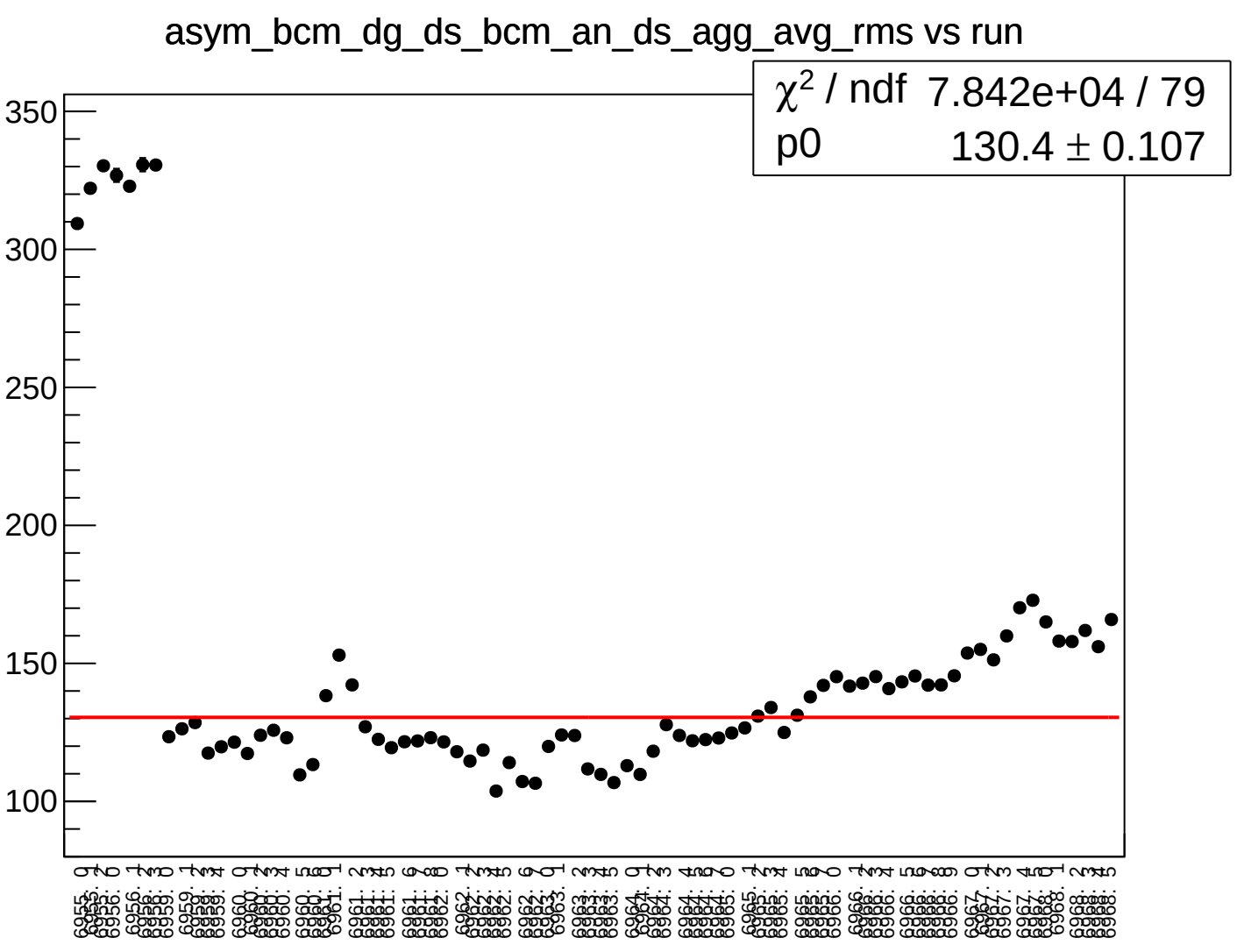

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 68.23 / 79
p0 −35.19 ± 26
pull
Entries 80
Mean 984.8
Std Dev 953.8

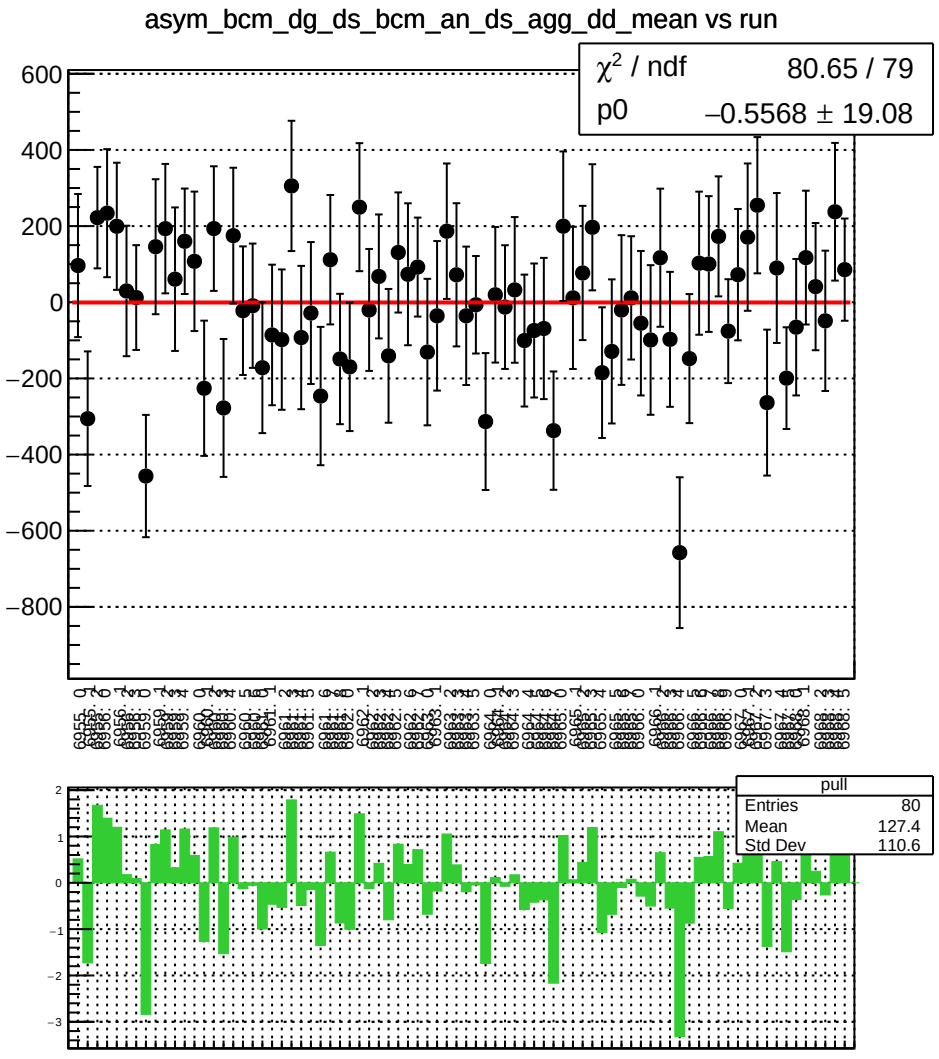

pull1D
Entries 80
Mean −0.002076
Std Dev 0.9235

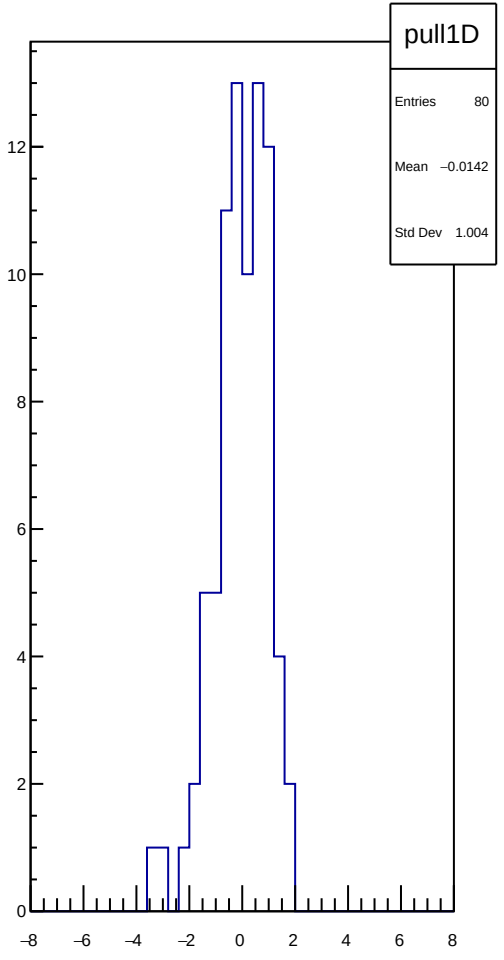

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 942.5 / 79
p0 22.98 ± 0.01838
24.5
24
23.5
23
22.5
22
21.5

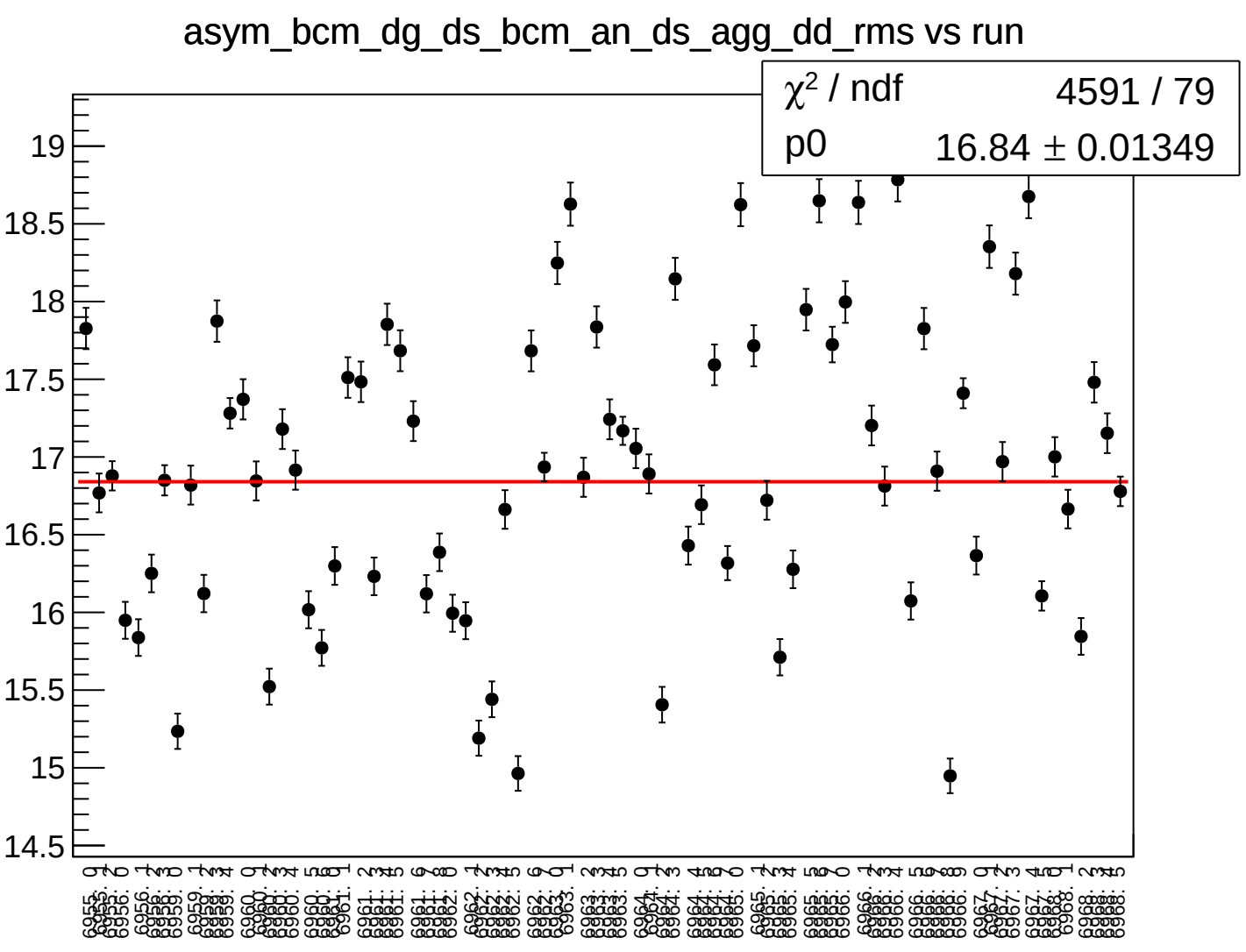

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.55 / 79
p0 47.06 ± 151.4
4000
2000
0
−2000
−4000
pull
Entries 80
Mean 159.6
Std Dev 108.4
1
0.5
0
−0.5
−1

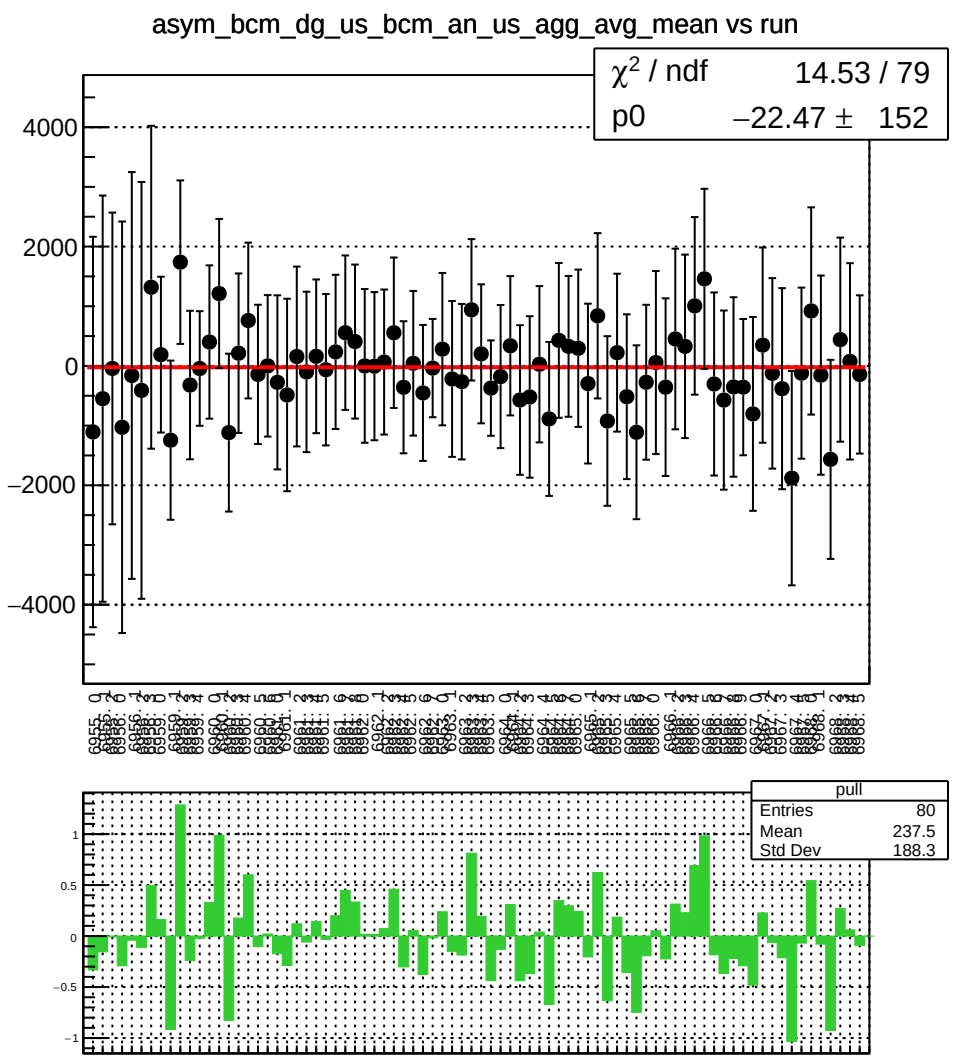

pull1D
Entries 80
Mean −0.01018
Std Dev 0.4114
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

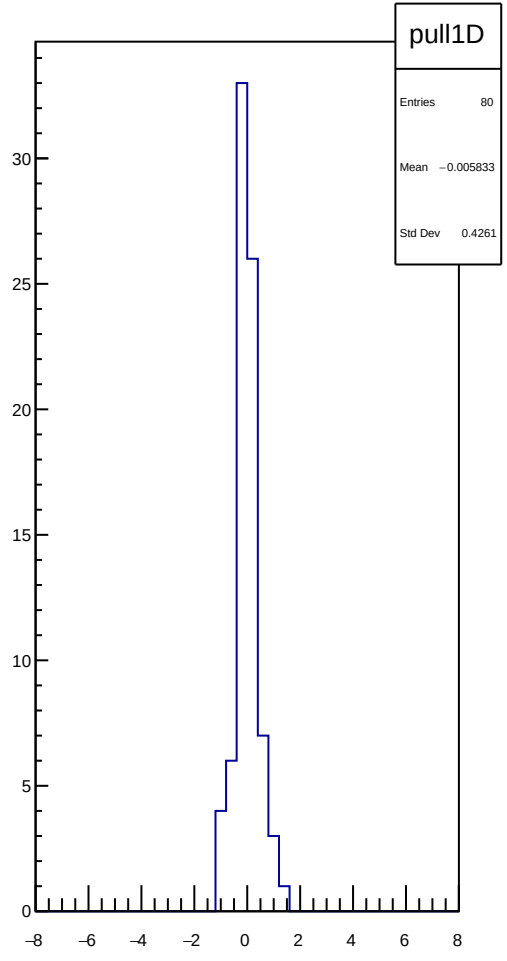

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7.842e+04 / 79
p0 130.4 ± 0.107
350
300
250
200
150
100


asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 80.65 / 79
p0 −0.5568 ± 19.08
pull
Entries 80
Mean 127.4
Std Dev 110.6


pull1D
Entries 80
Mean −0.0142
Std Dev 1.004


asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4591 / 79
p0 16.84 ± 0.01349
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 14.53 / 79
p0 −22.47 ± 152
4000
2000
0
−2000
−4000
pull
Entries 80
Mean 237.5
Std Dev 188.3
1
0.5
0
−0.5
−1


pull1D
Entries 80
Mean −0.005833
Std Dev 0.4261
30
25
20
15
10
5
0
−8
−6
−4
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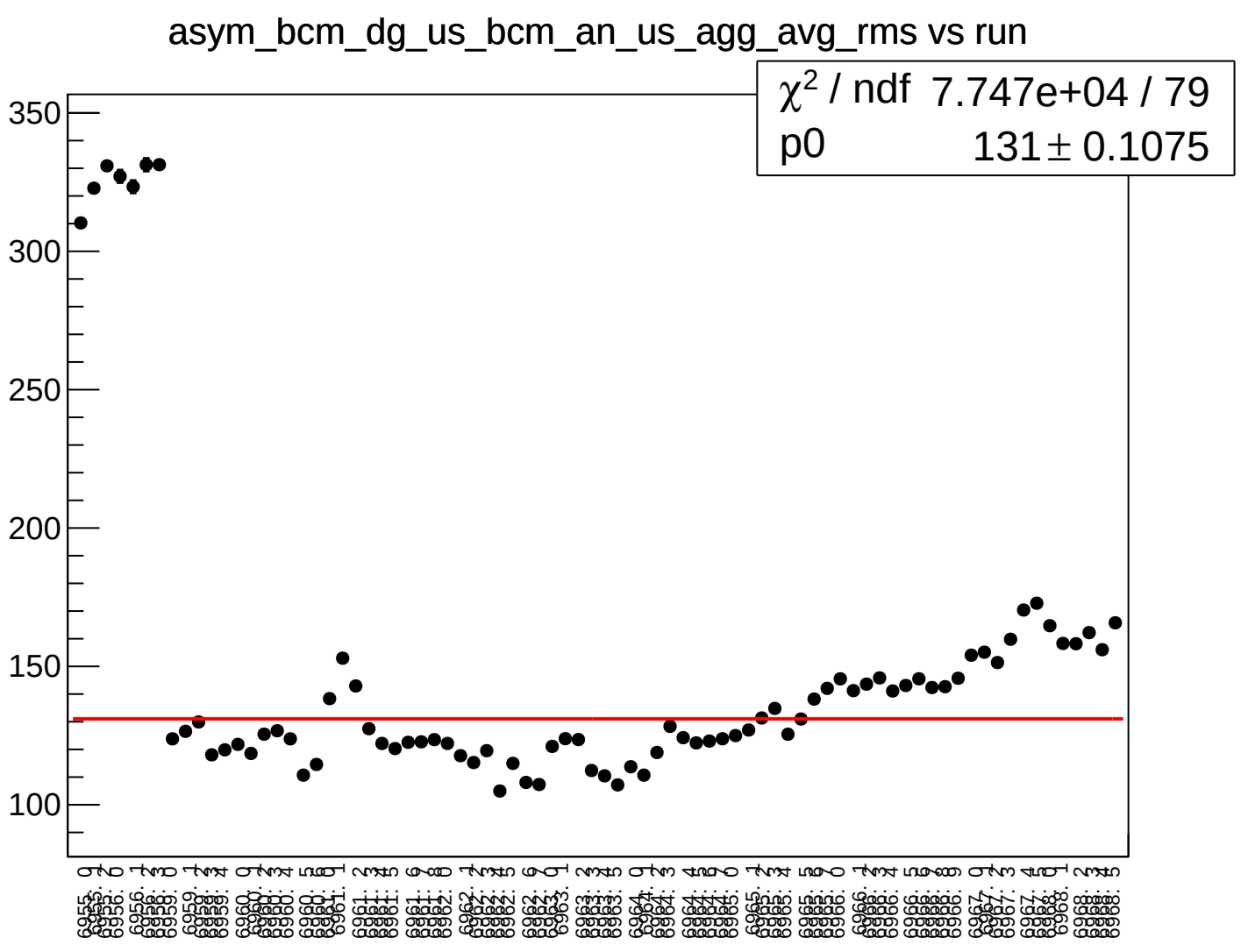
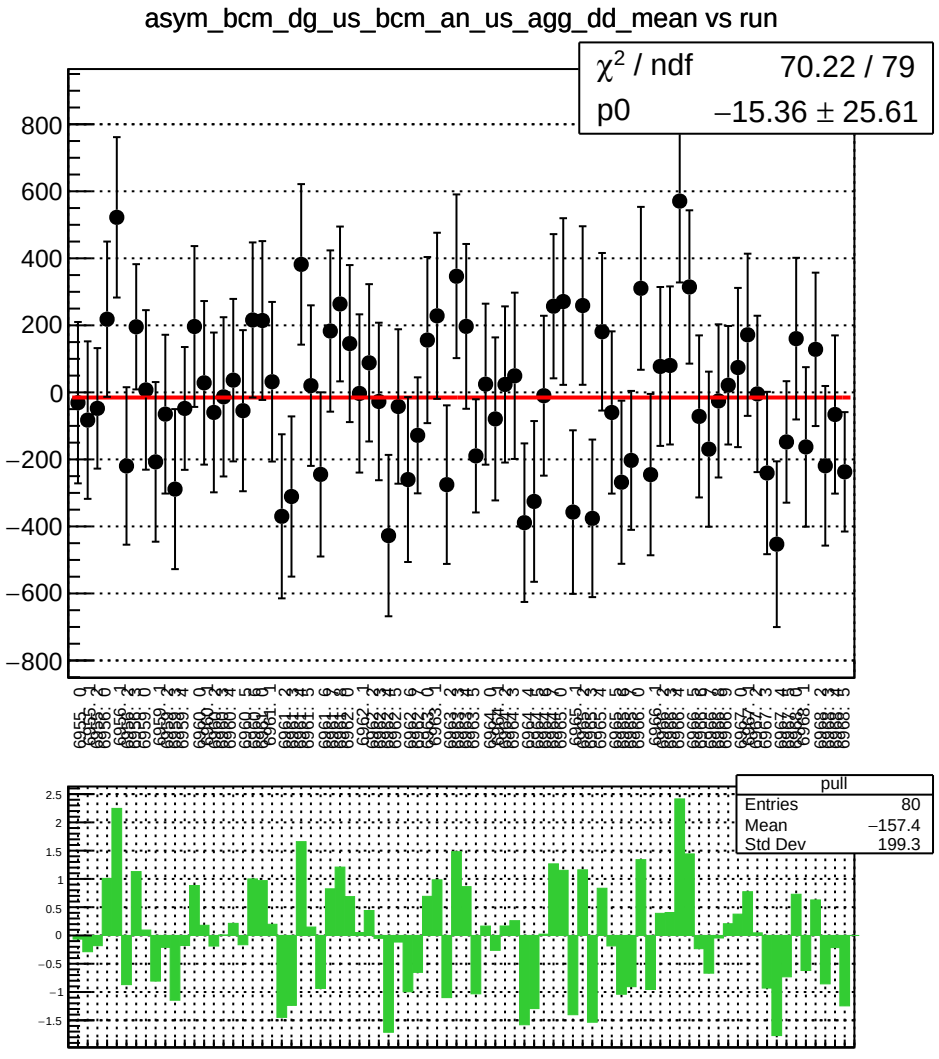
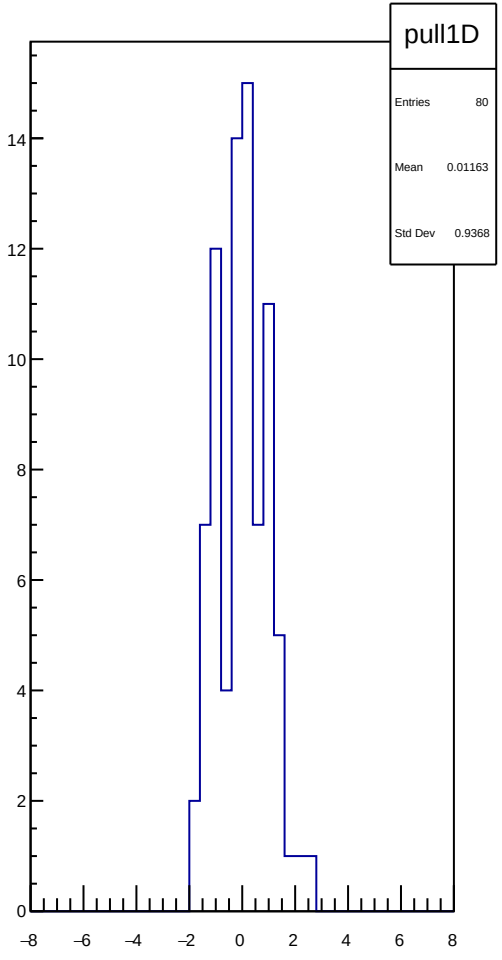
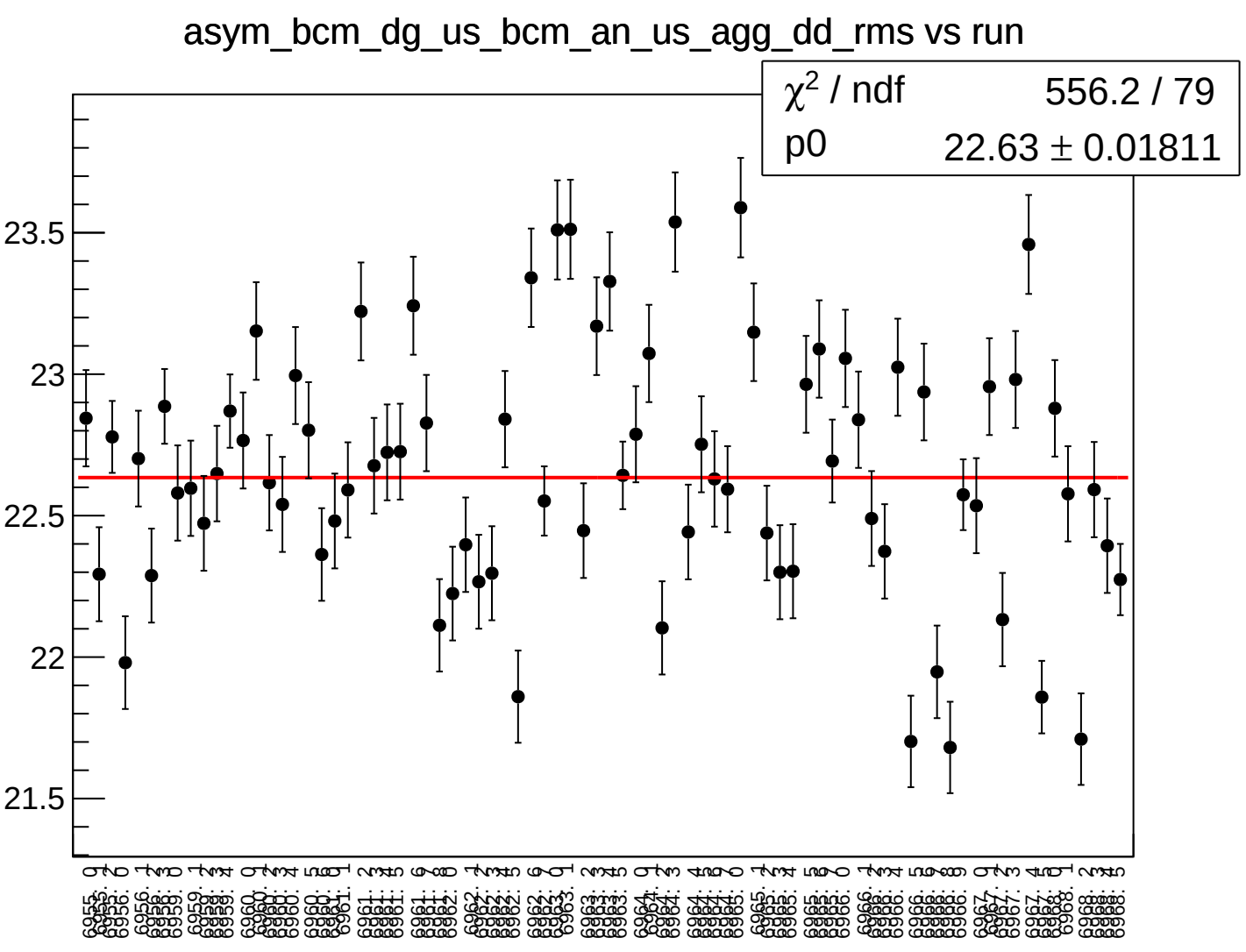
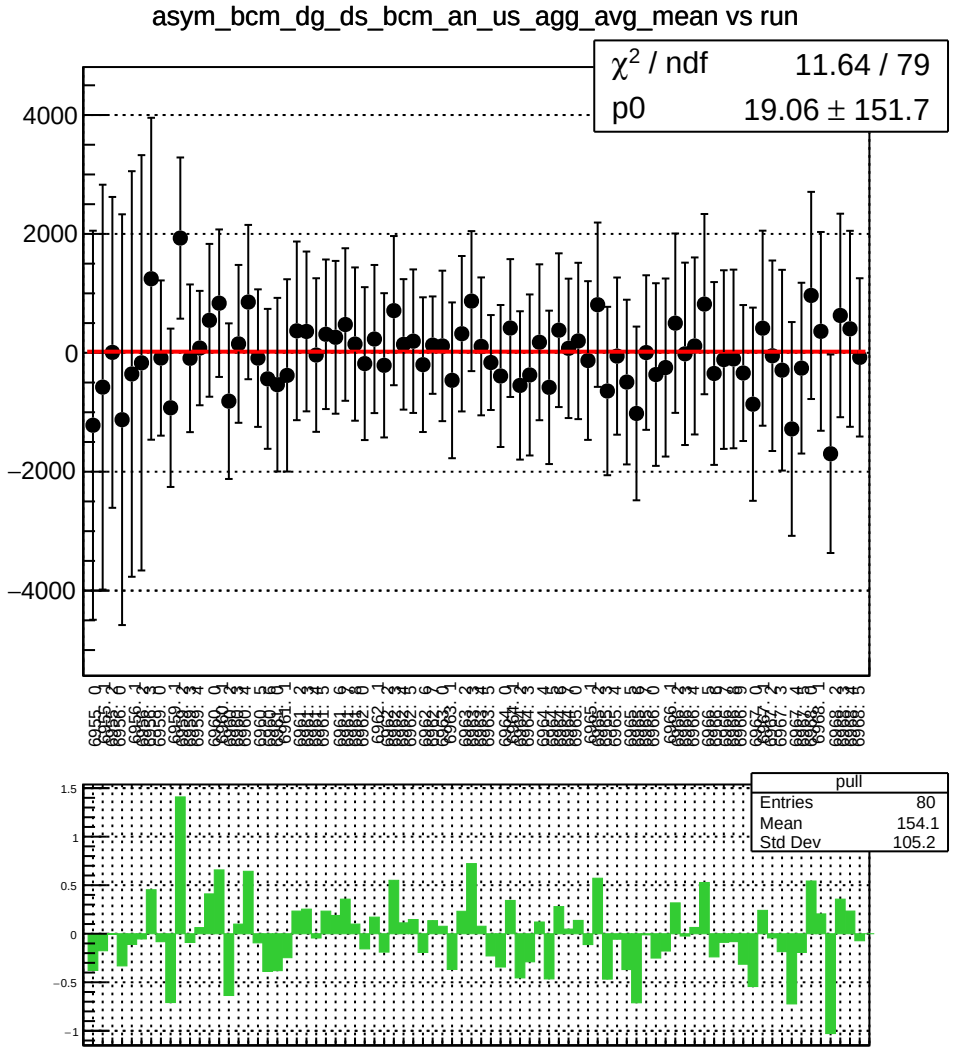
0
2
4
6
8

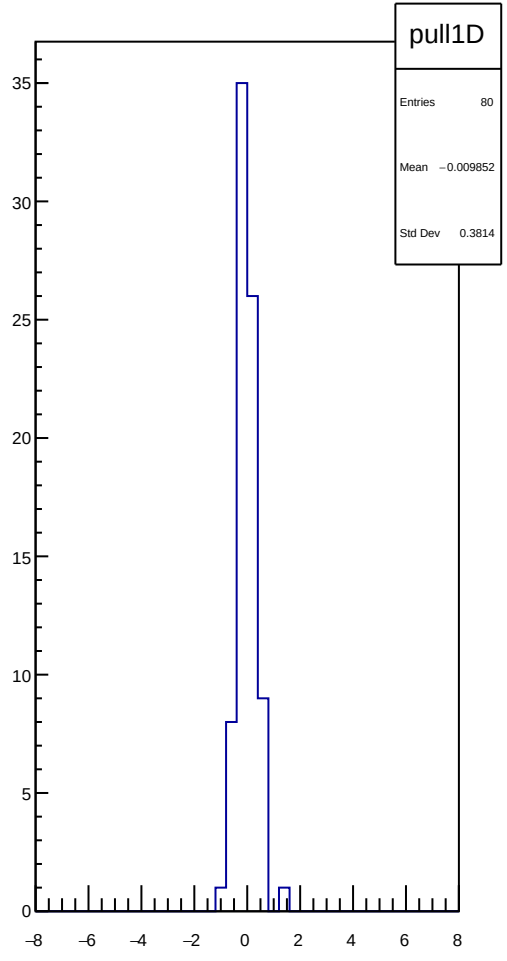

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7.747e+04 / 79
p0 131 ± 0.1075
350
300
250
200
150
100

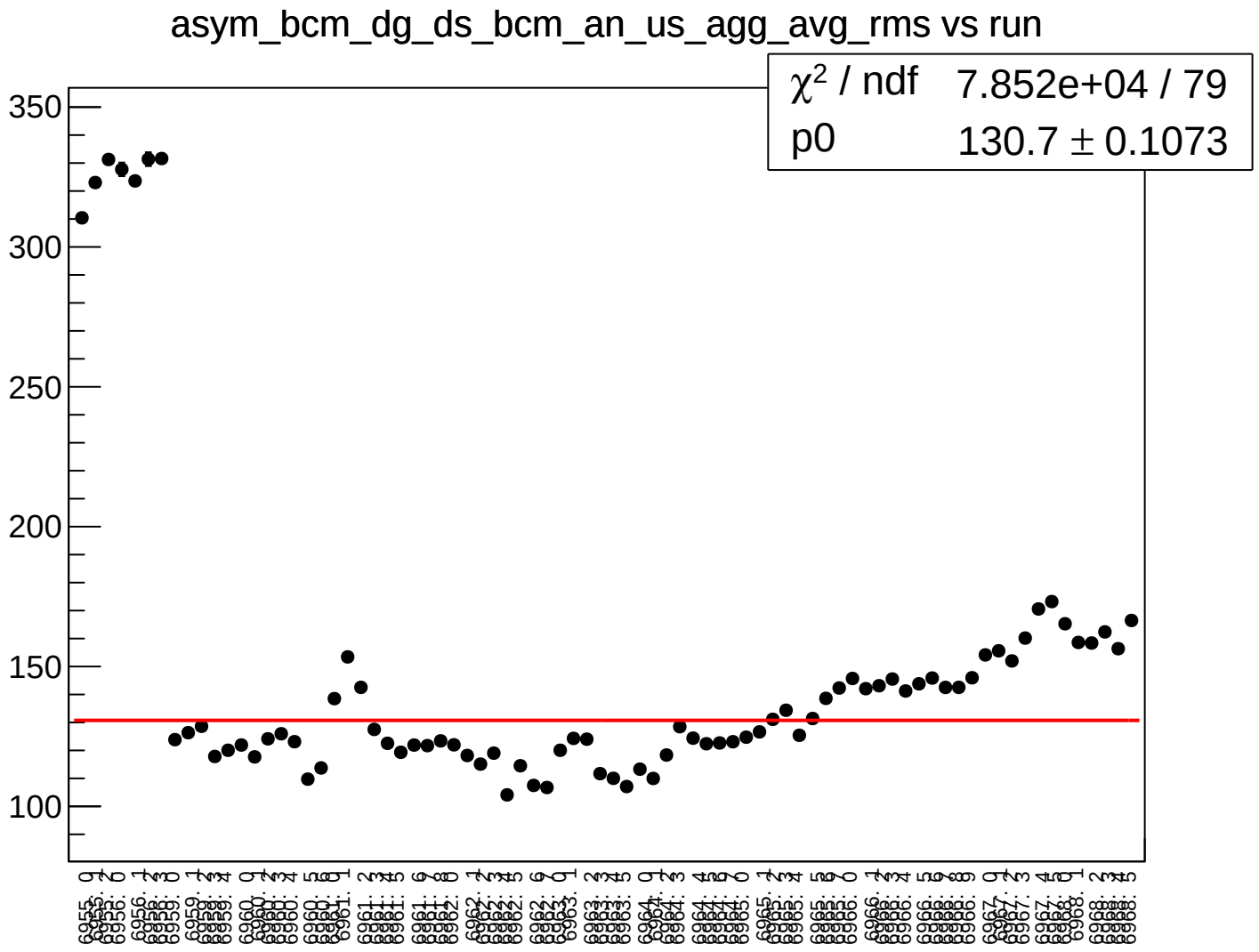

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 70.22 / 79
p0 −15.36 ± 25.61
pull
Entries 80
Mean −157.4
Std Dev 199.3

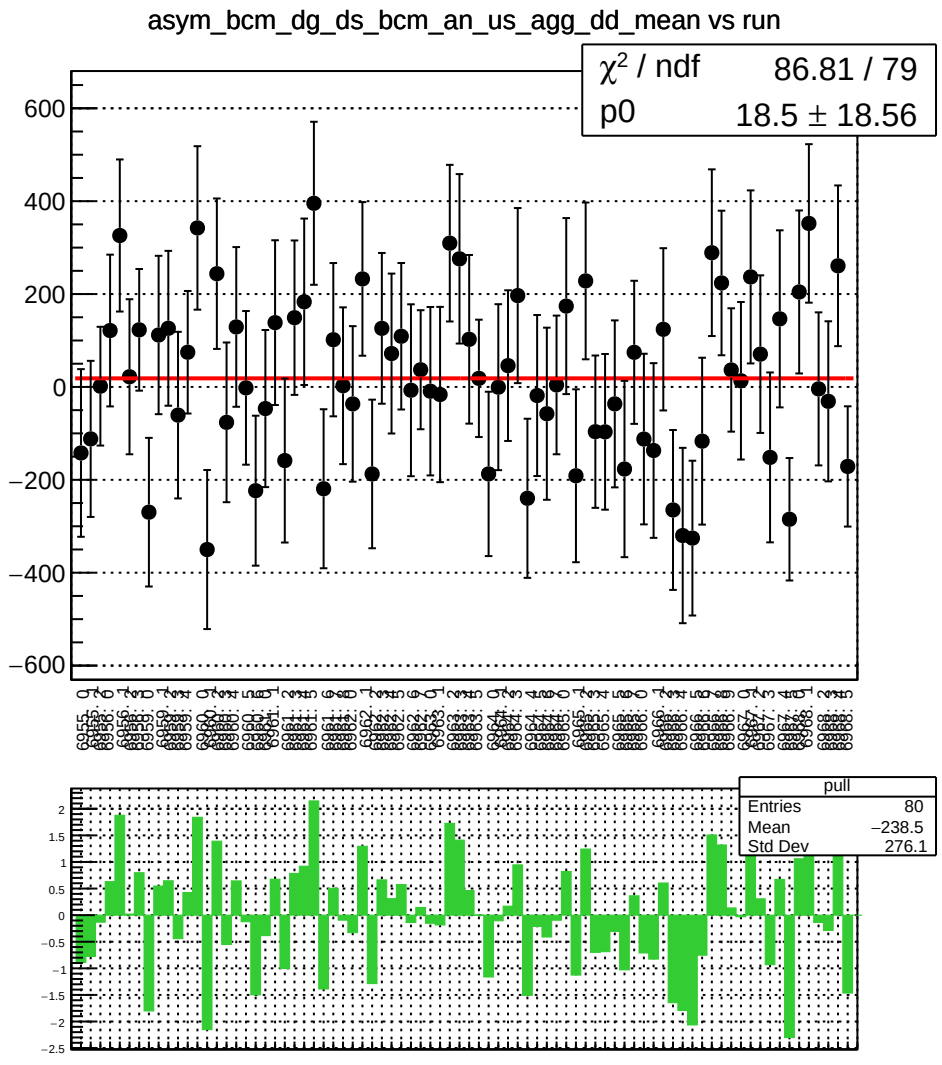

pull1D
Entries 80
Mean 0.01163
Std Dev 0.9368

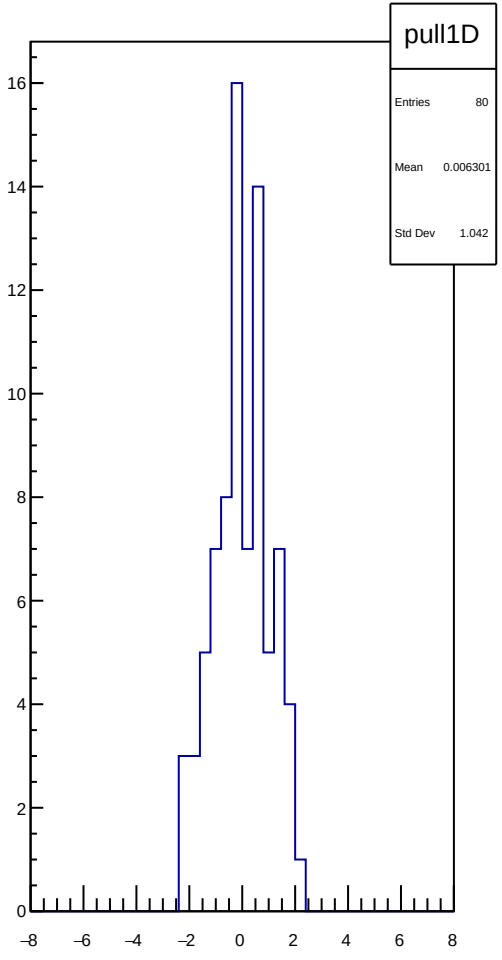

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 556.2 / 79
p0 22.63 ± 0.01811
23.5
23
22.5
22
21.5

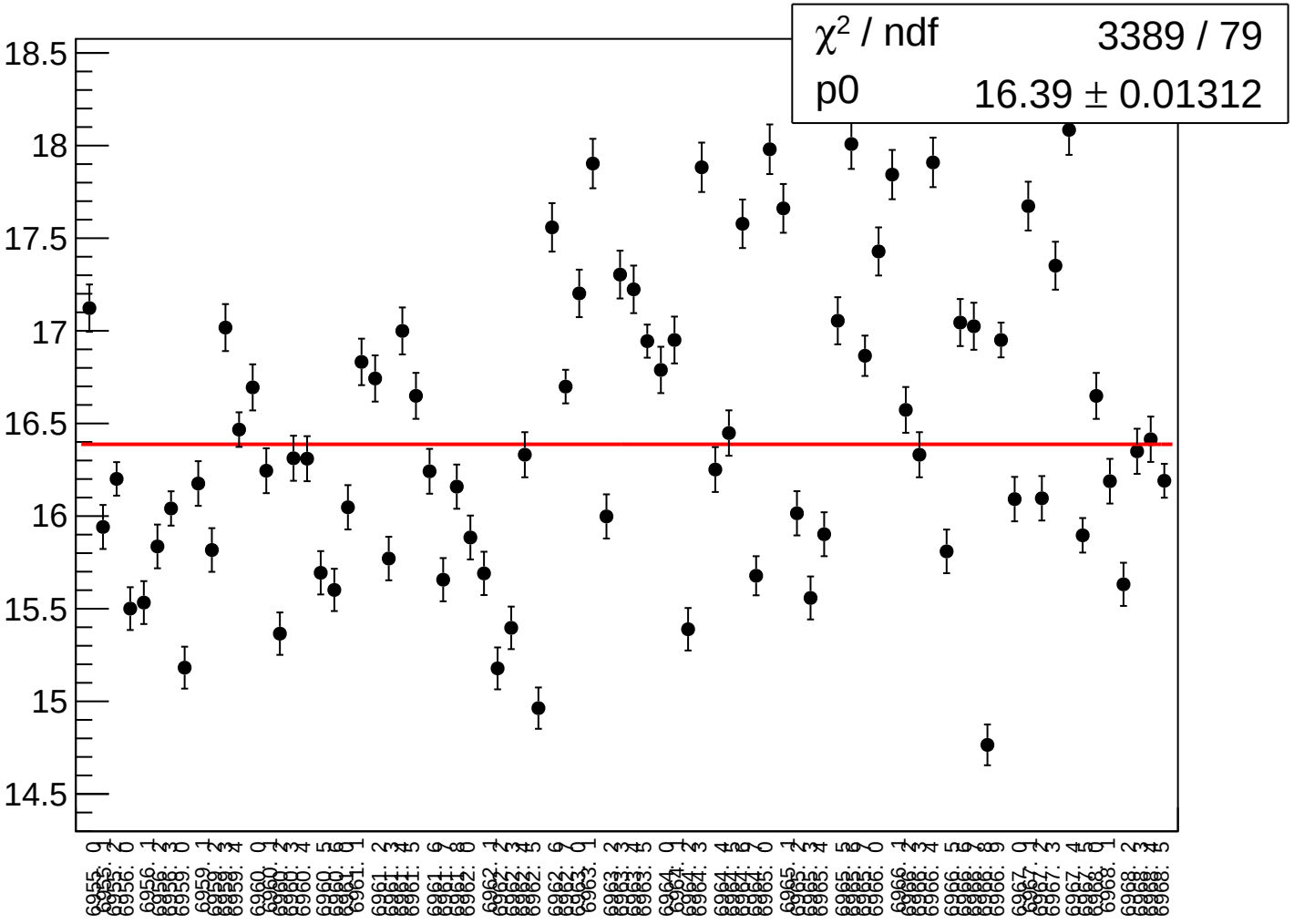

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 11.64 / 79
p0 19.06 ± 151.7
4000
2000
0
−2000
−4000
pull
Entries 80
Mean 154.1
Std Dev 105.2
1.5
1
0.5
0
−0.5
−1

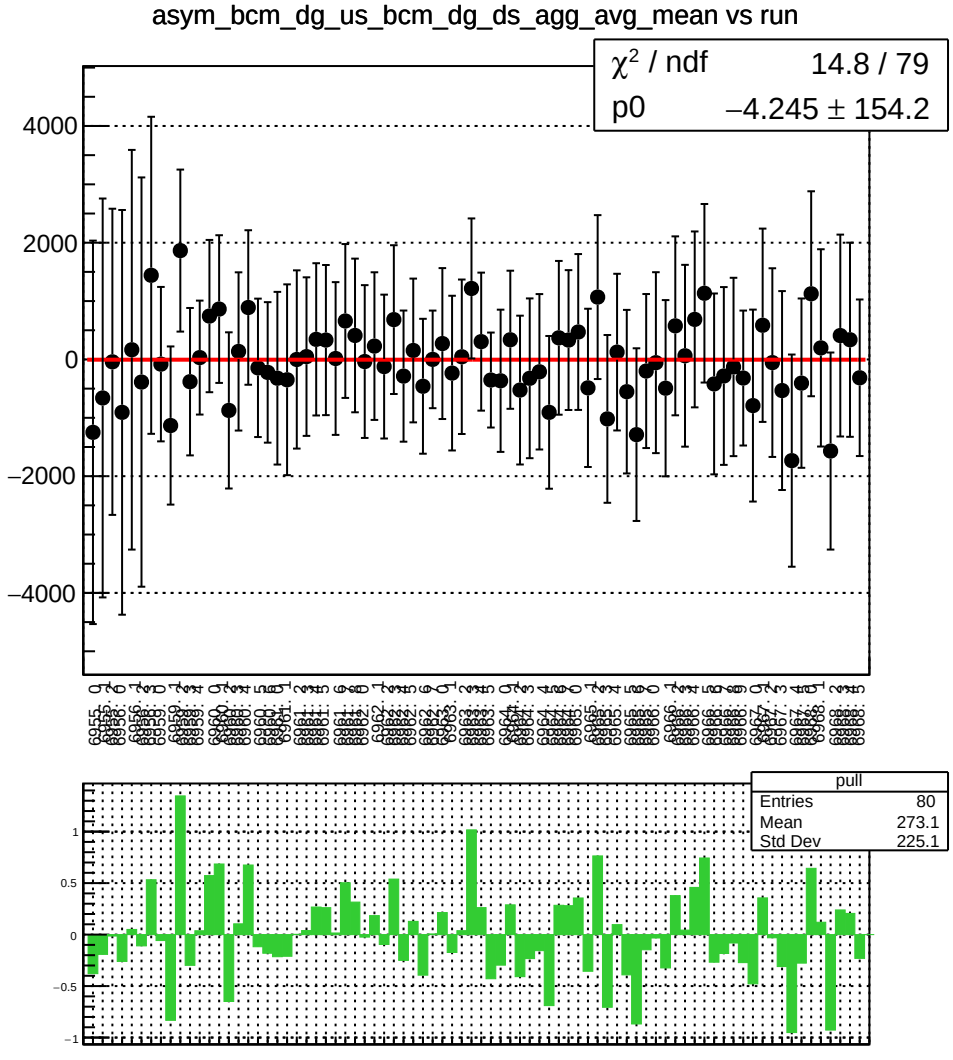

pull1D
Entries 80
Mean −0.009852
Std Dev 0.3814
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

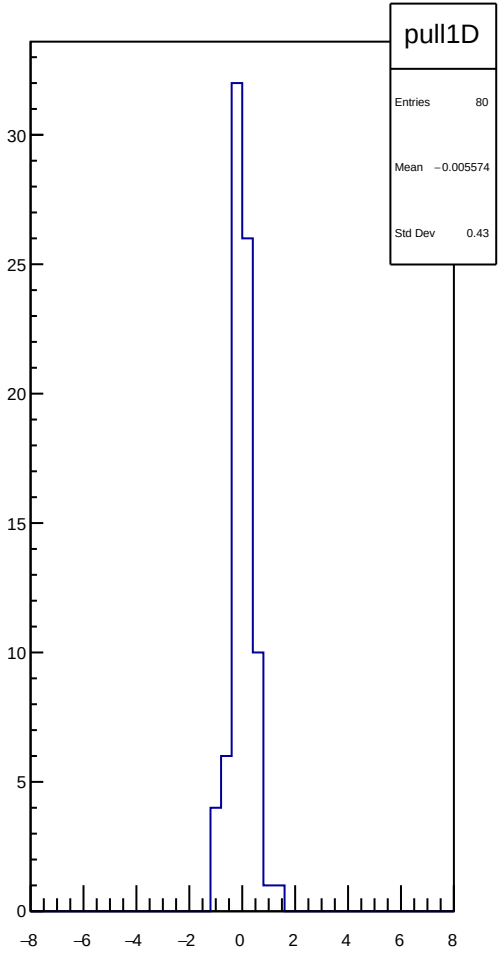

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7.852e+04 / 79
p0 130.7 ± 0.1073
350
300
250
200
150
100

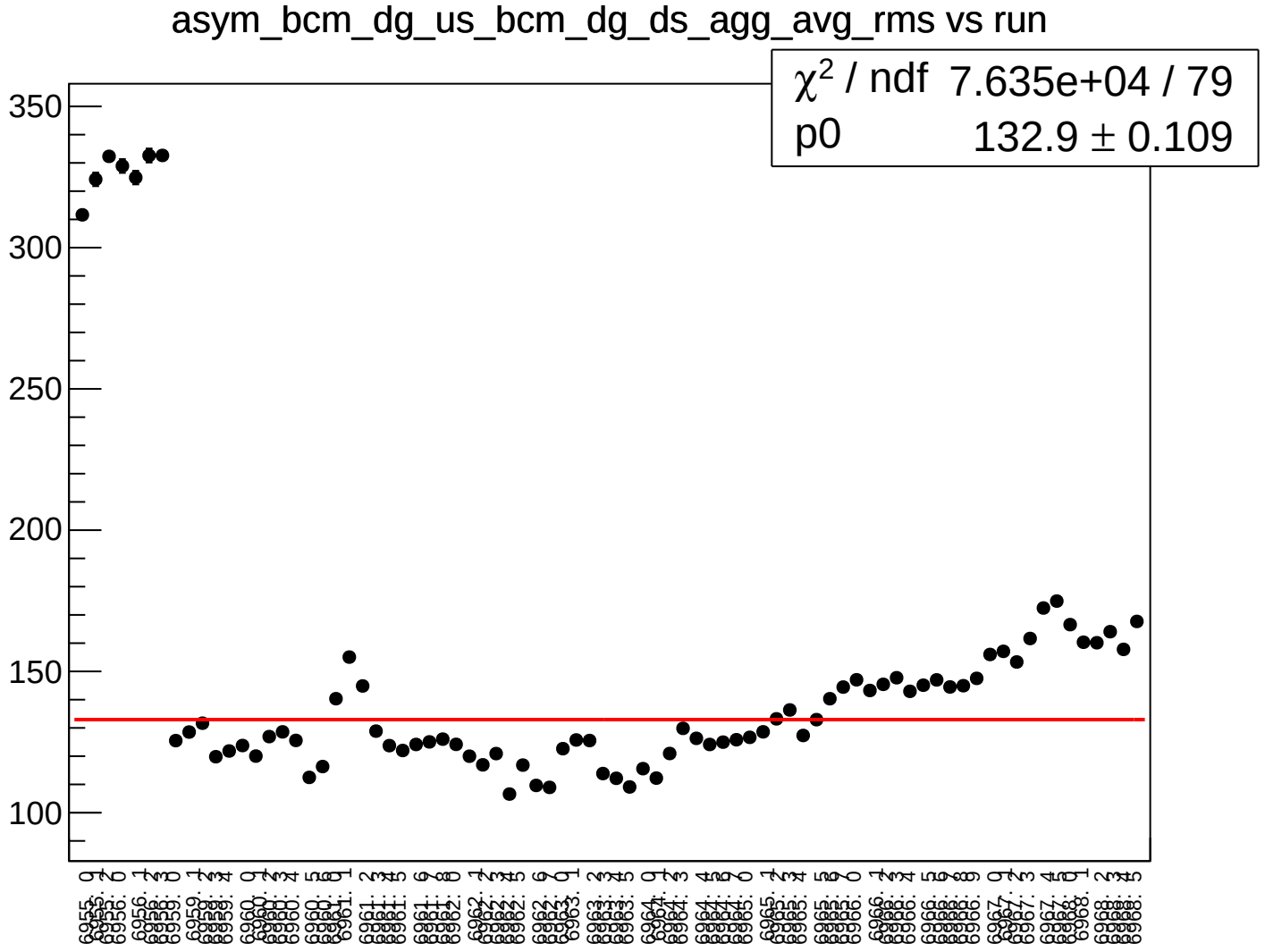

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 86.81 / 79
p0 18.5 ± 18.56
pull
Entries 80
Mean −238.5
Std Dev 276.1

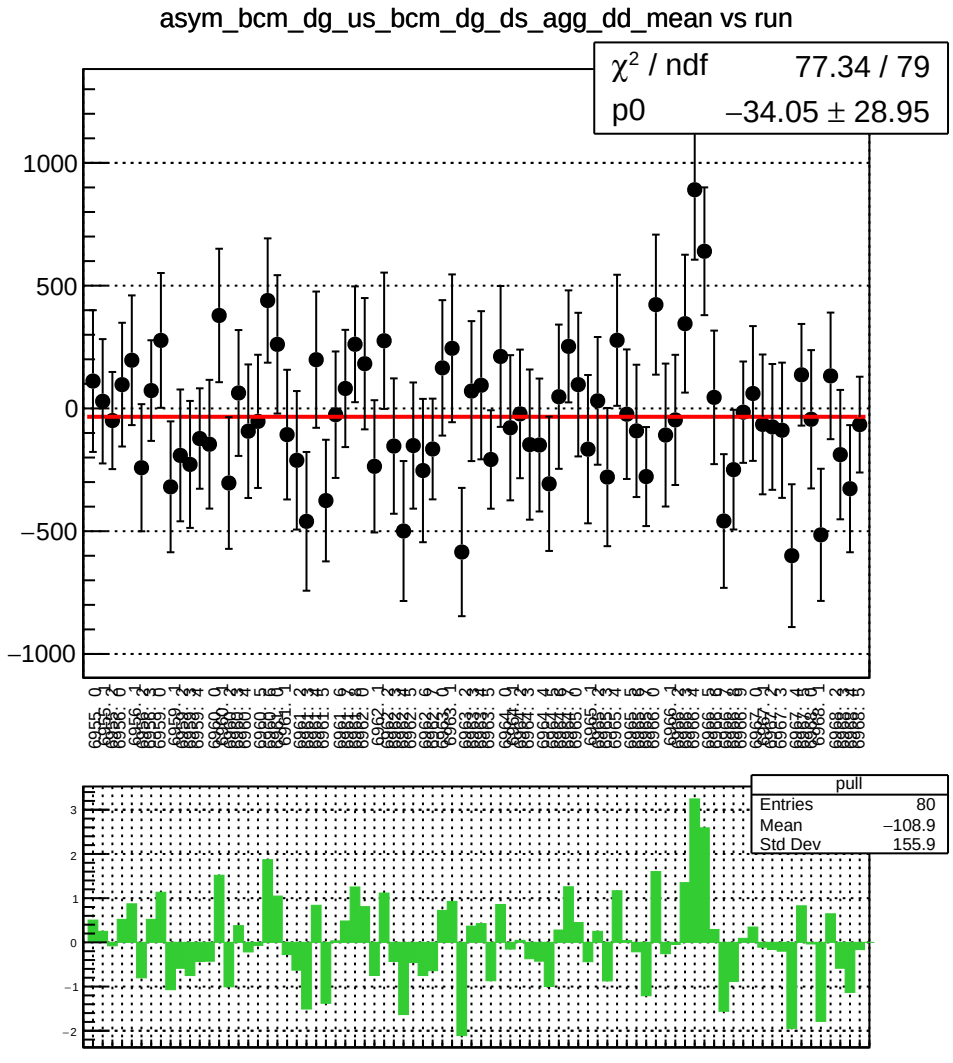

pull1D
Entries 80
Mean 0.006301
Std Dev 1.042

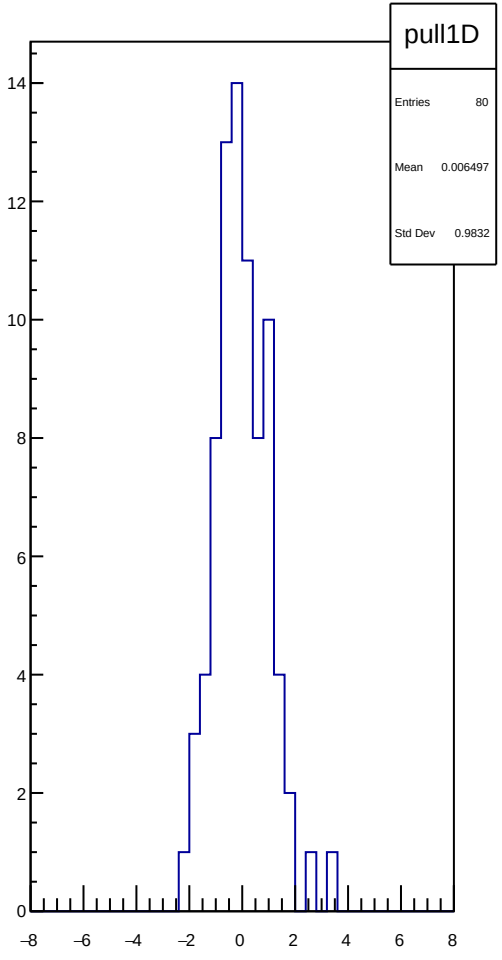

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3389 / 79
p0 16.39 ± 0.01312
18.5
18
17.5
17
16.5
16
15.5
15
14.5

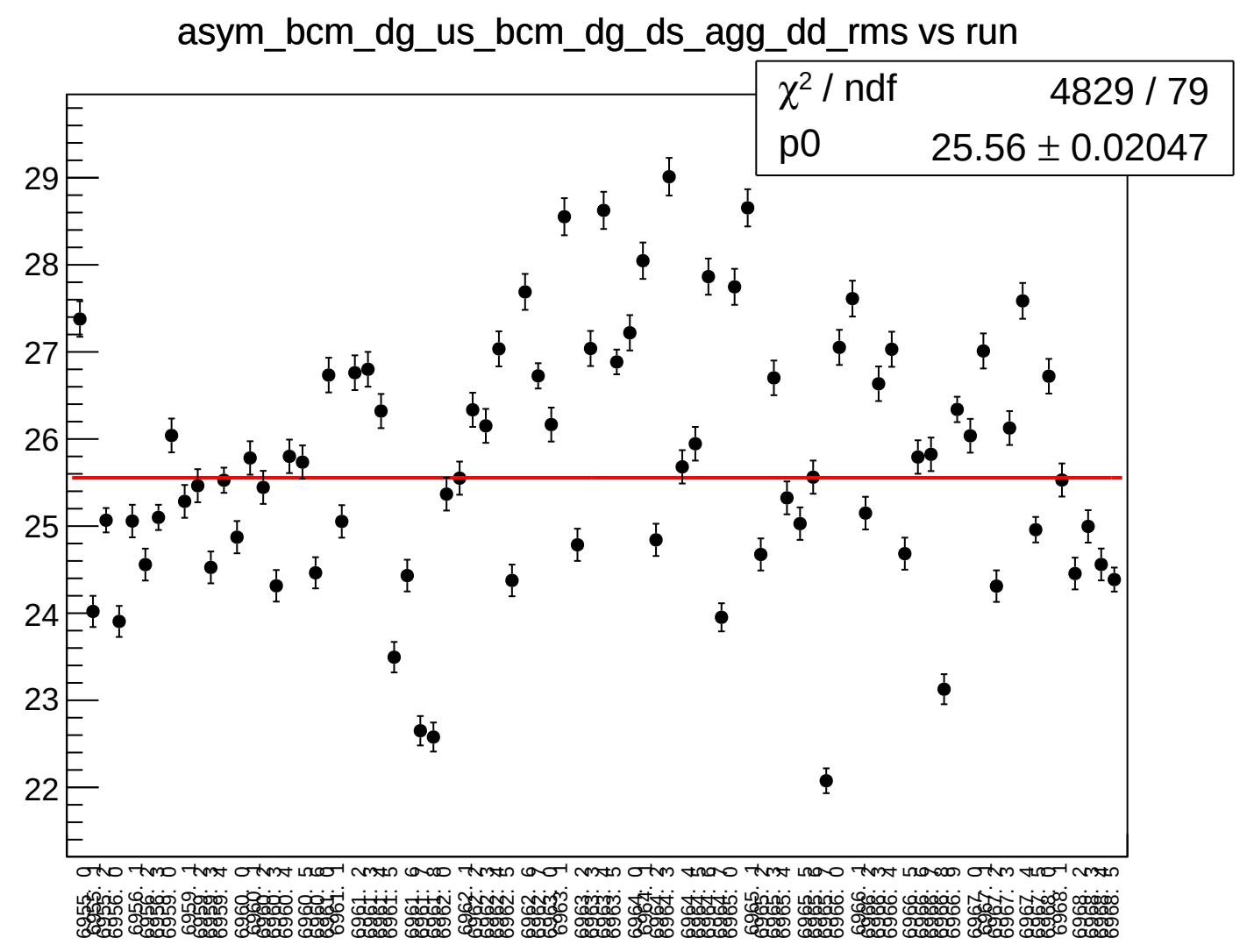

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 14.8 / 79
p0 −4.245 ± 154.2
4000
2000
0
−2000
−4000
pull
Entries 80
Mean 273.1
Std Dev 225.1
1
0.5
0
−0.5
−1

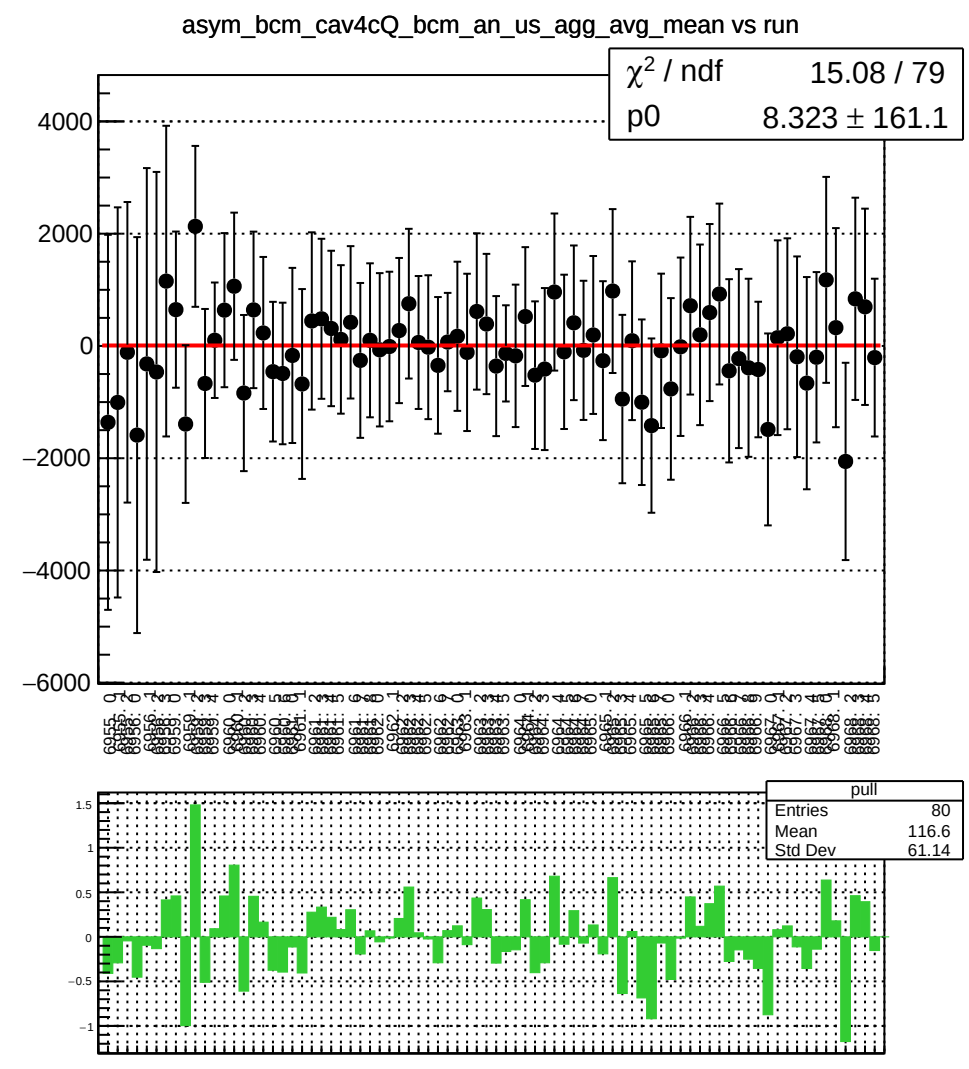

pull1D
Entries 80
Mean −0.005574
Std Dev 0.43
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

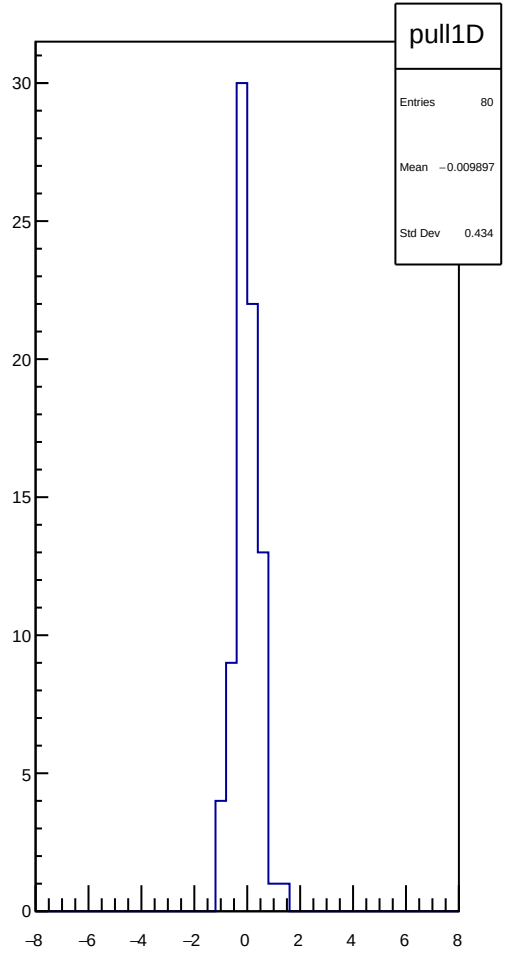

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 7.635e+04 / 79
p0 132.9 ± 0.109
350
300
250
200
150
100

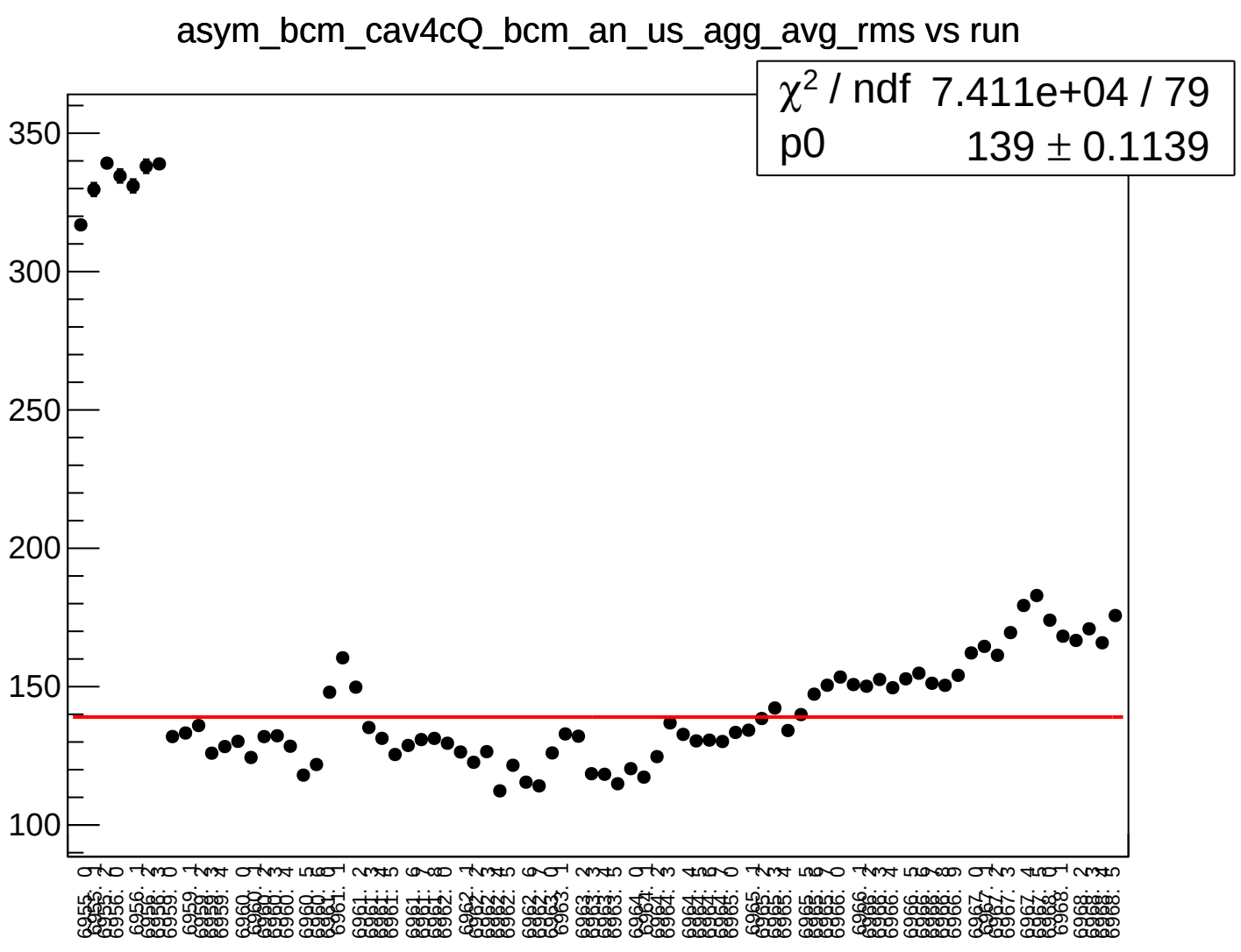

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 77.34 / 79
p0 −34.05 ± 28.95
1000
500
0
−500
−1000
pull
Entries 80
Mean −108.9
Std Dev 155.9
3
2
1
0
−1
−2

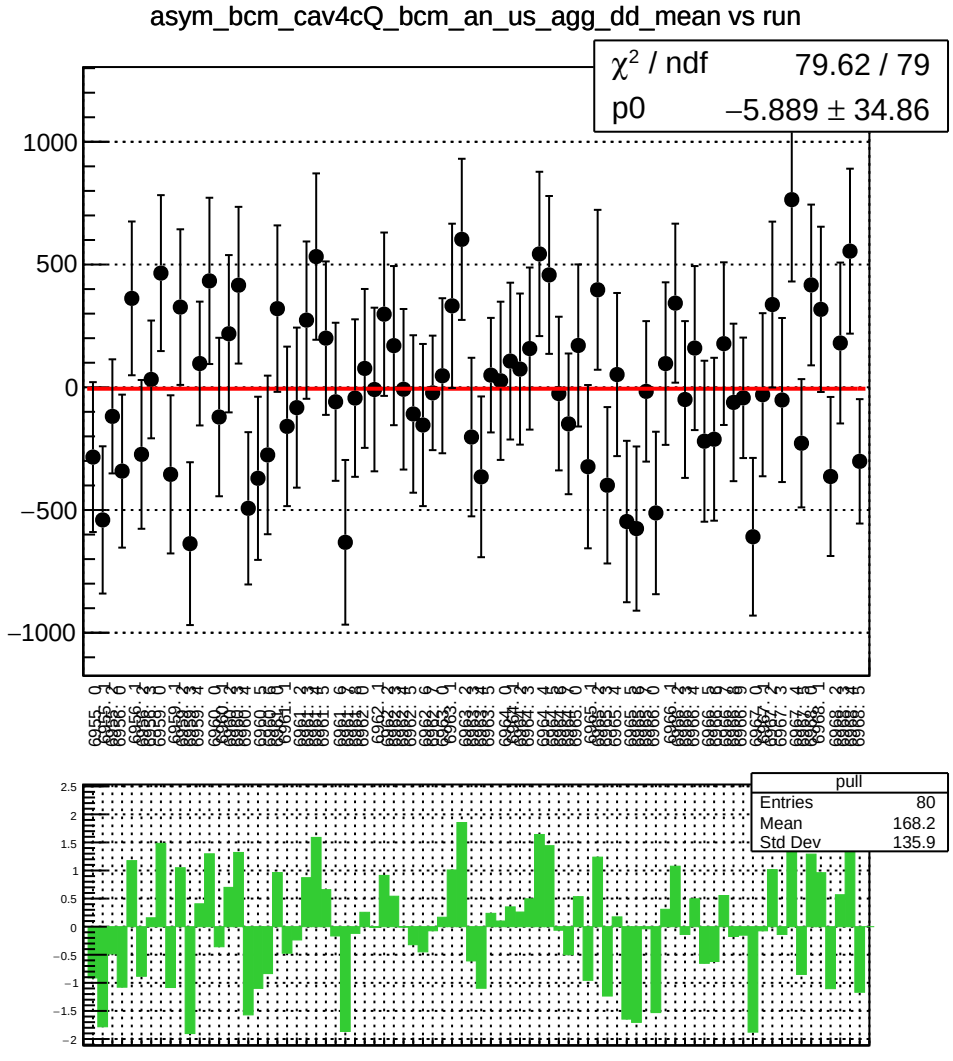

pull1D
Entries 80
Mean 0.006497
Std Dev 0.9832
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

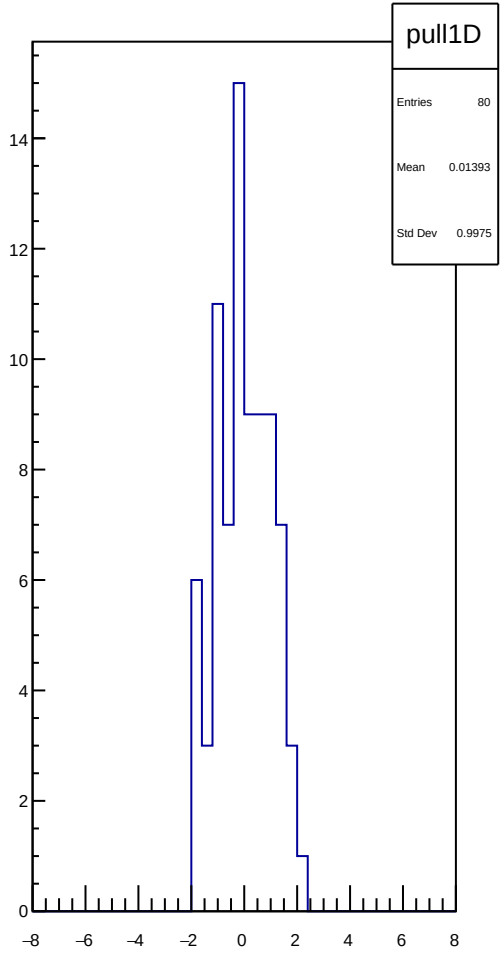

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4829 / 79
p0 25.56 ± 0.02047
29
28
27
26
25
24
23
22

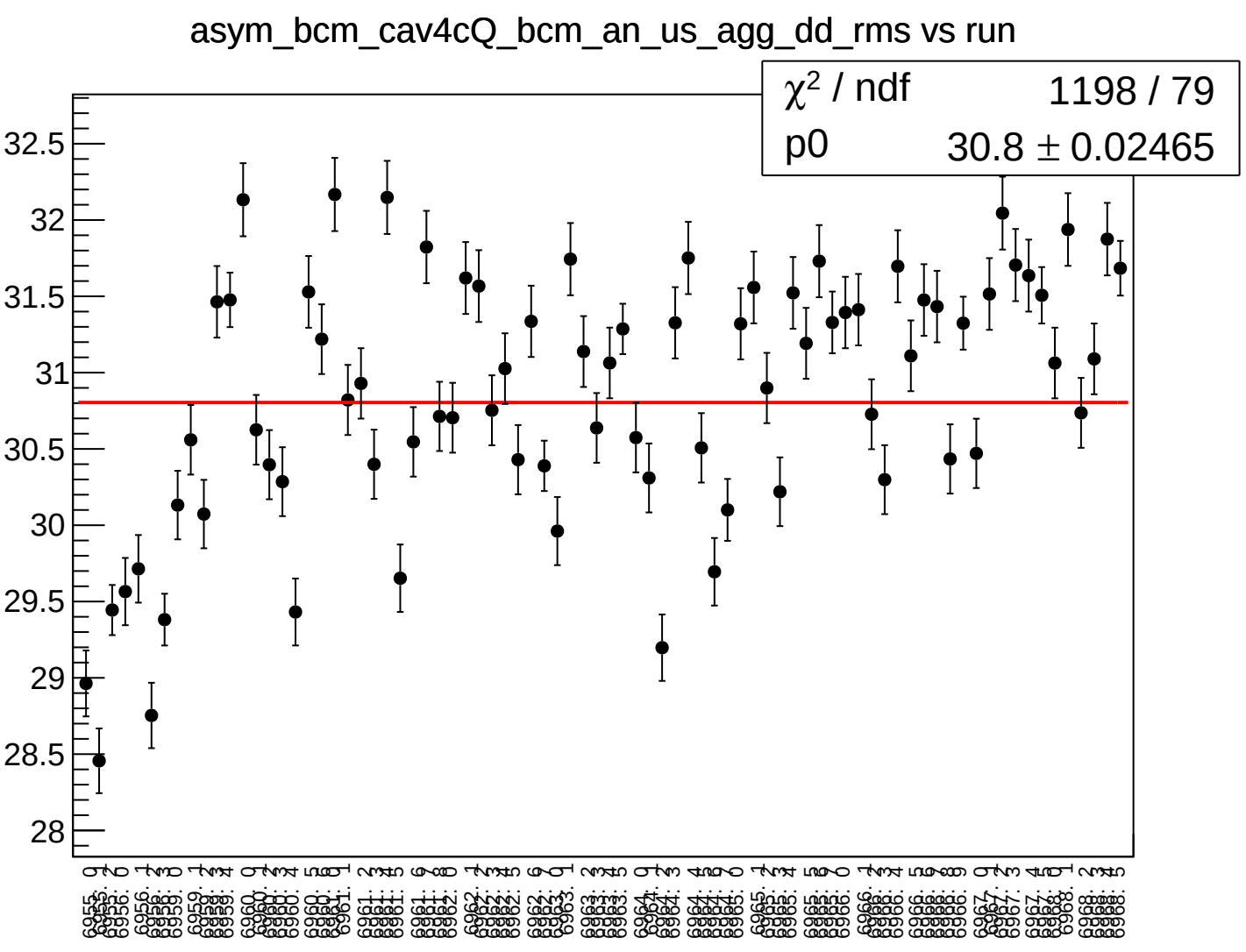

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.08 / 79
p0 8.323 ± 161.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 80
Mean 116.6
Std Dev 61.14
1.5
1
0.5
0
−0.5
−1

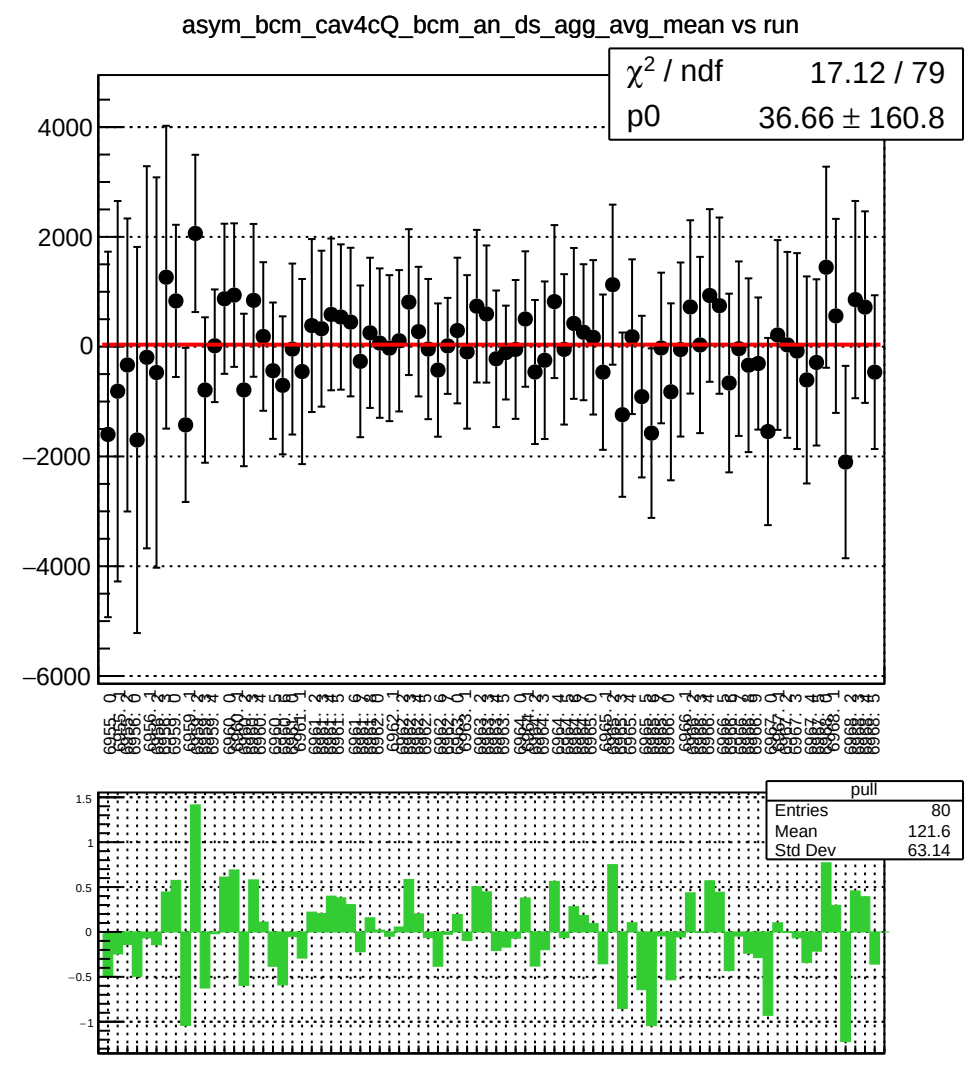

pull1D
Entries 80
Mean −0.009897
Std Dev 0.434
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

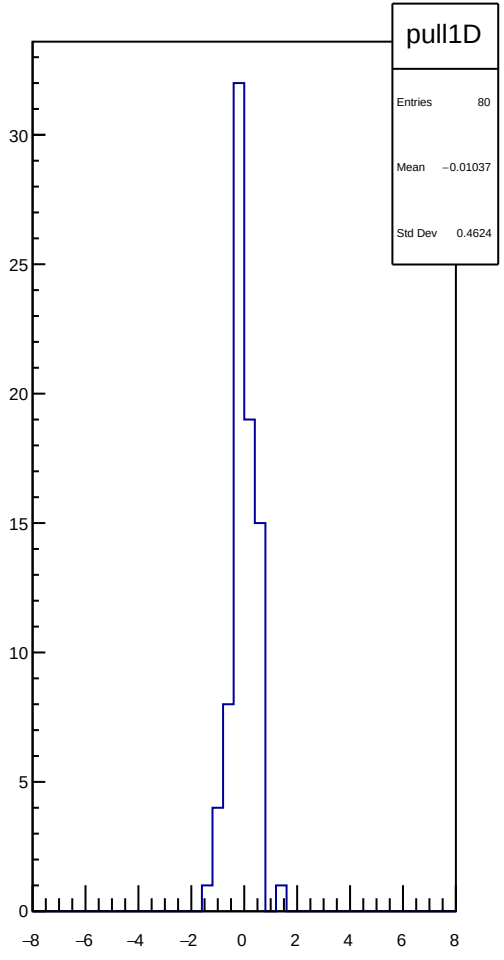

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7.411e+04 / 79
p0 139 ± 0.1139
350
300
250
200
150
100

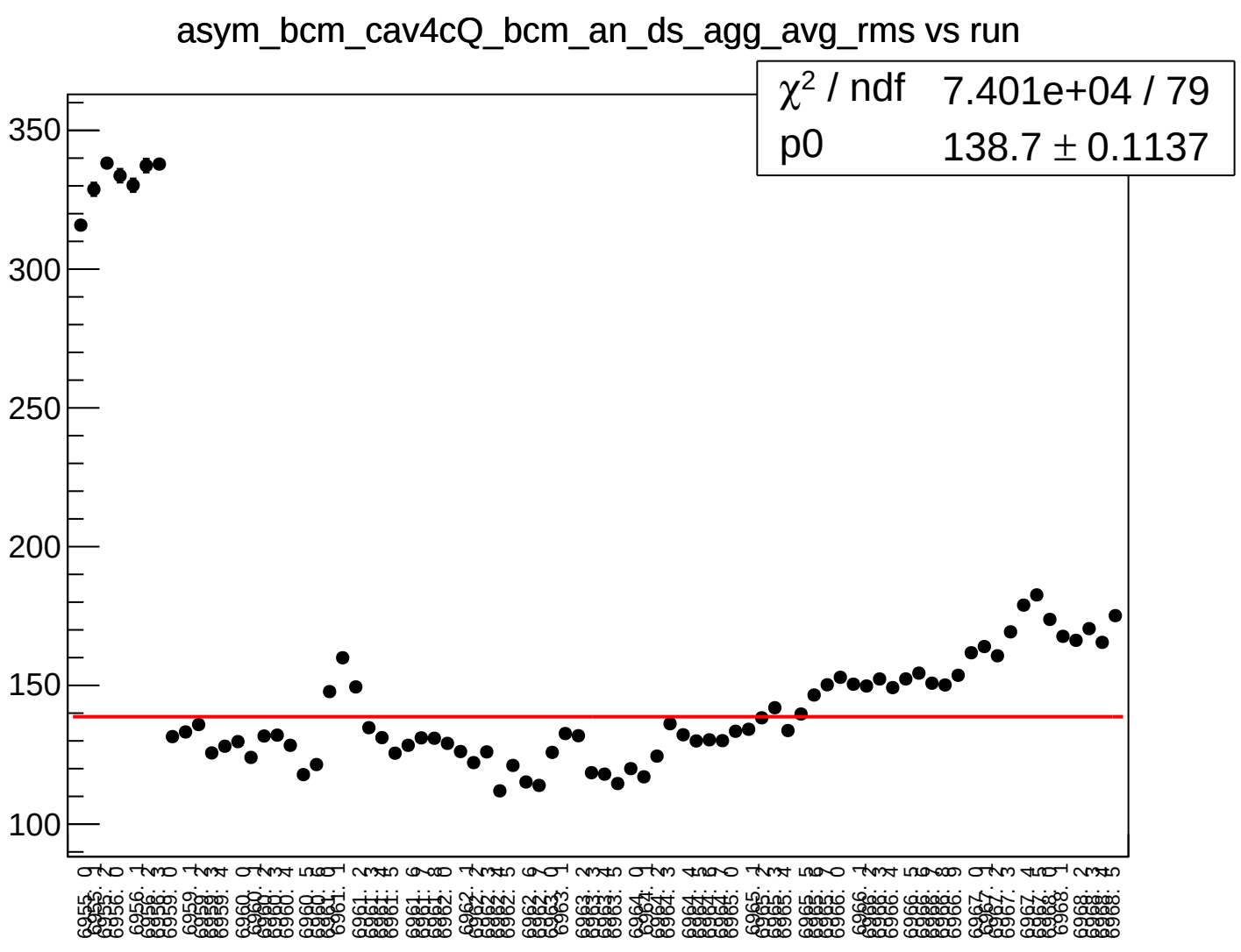

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 79.62 / 79
p0 −5.889 ± 34.86
1000
500
0
−500
−1000
pull
Entries 80
Mean 168.2
Std Dev 135.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

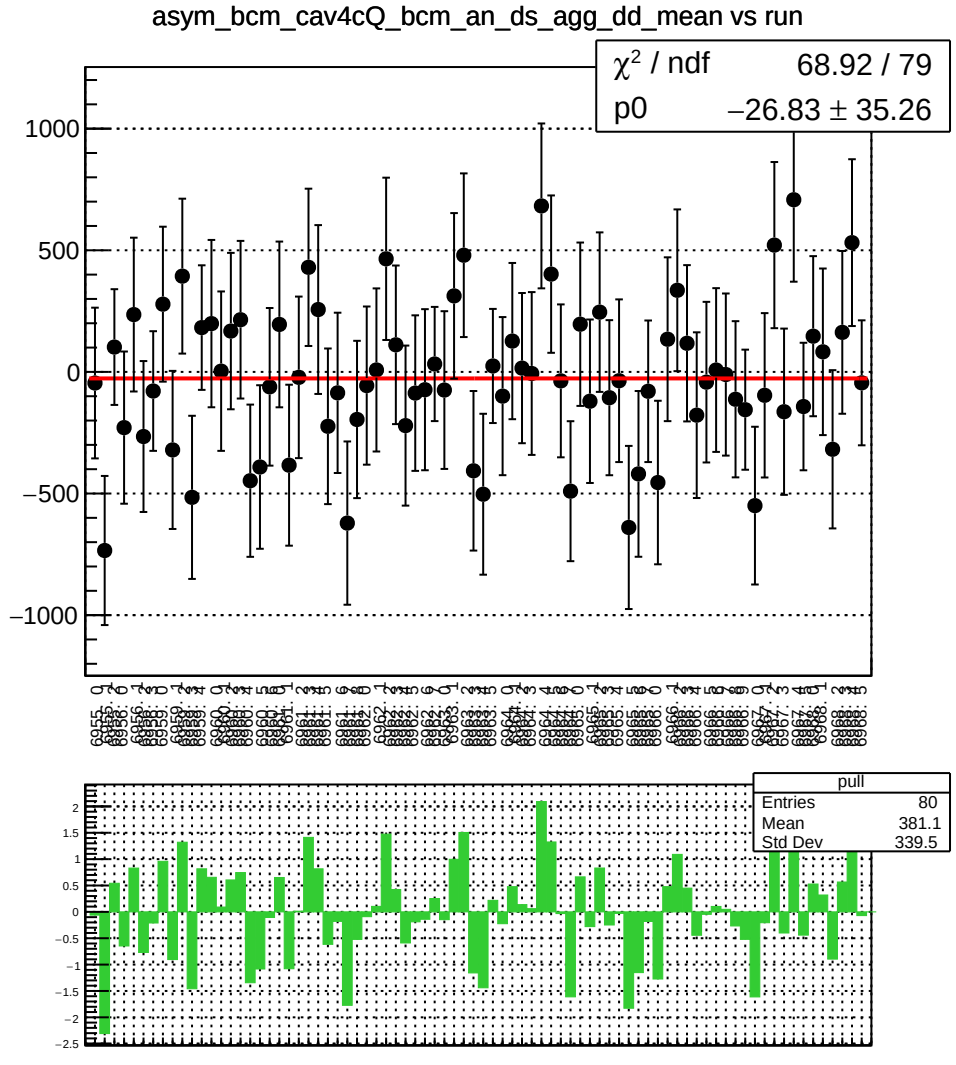

pull1D
Entries 80
Mean 0.01393
Std Dev 0.9975
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

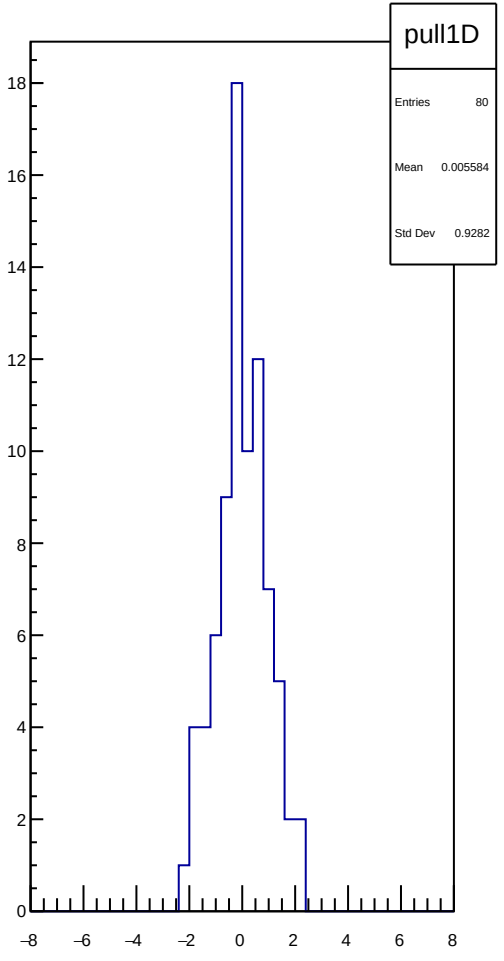

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1198 / 79
p0 30.8 ± 0.02465
32.5
32
31.5
31
30.5
30
29.5
29
28.5
28

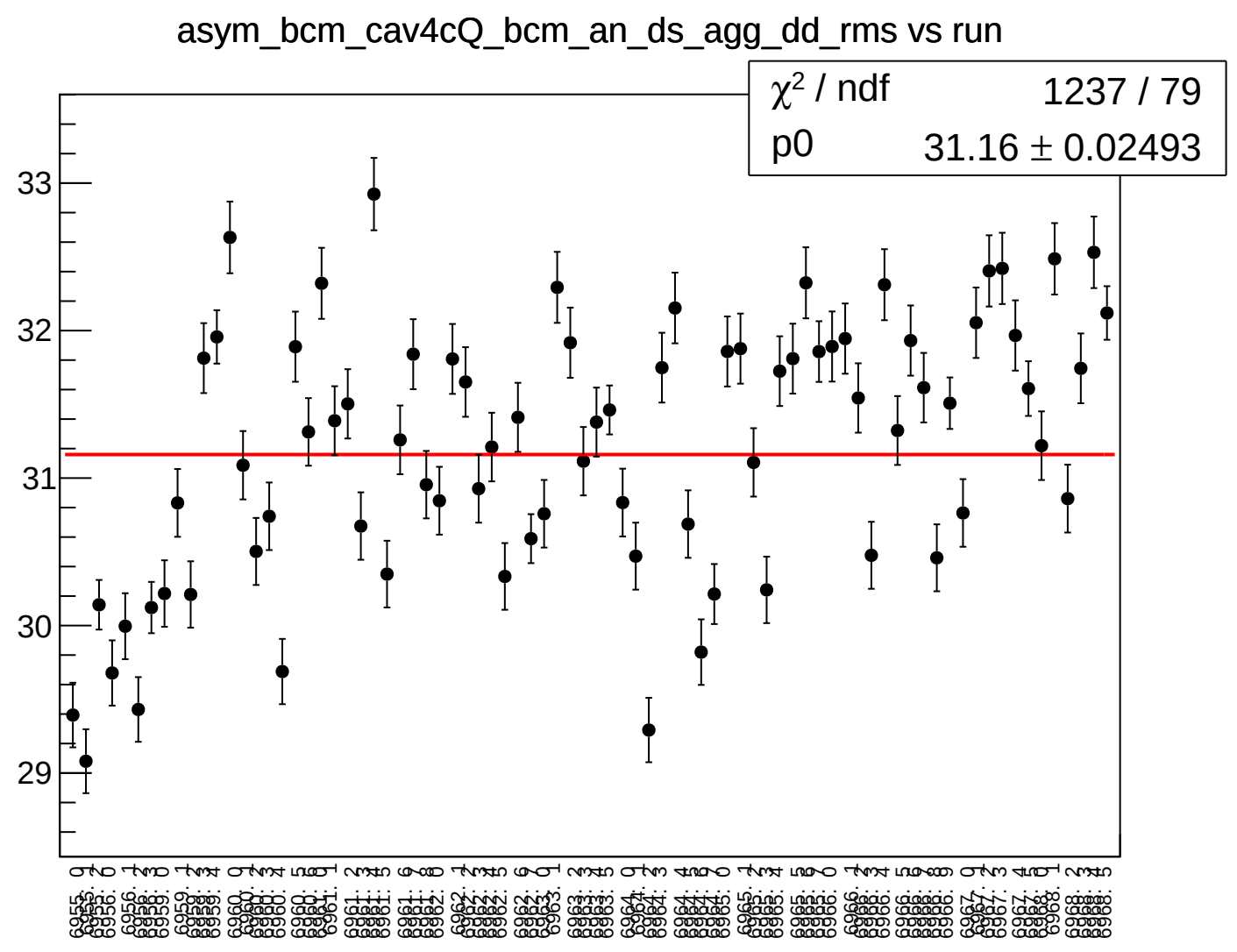

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.12 / 79
p0 36.66 ± 160.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 80
Mean 121.6
Std Dev 63.14
1.5
1
0.5
0
−0.5
−1

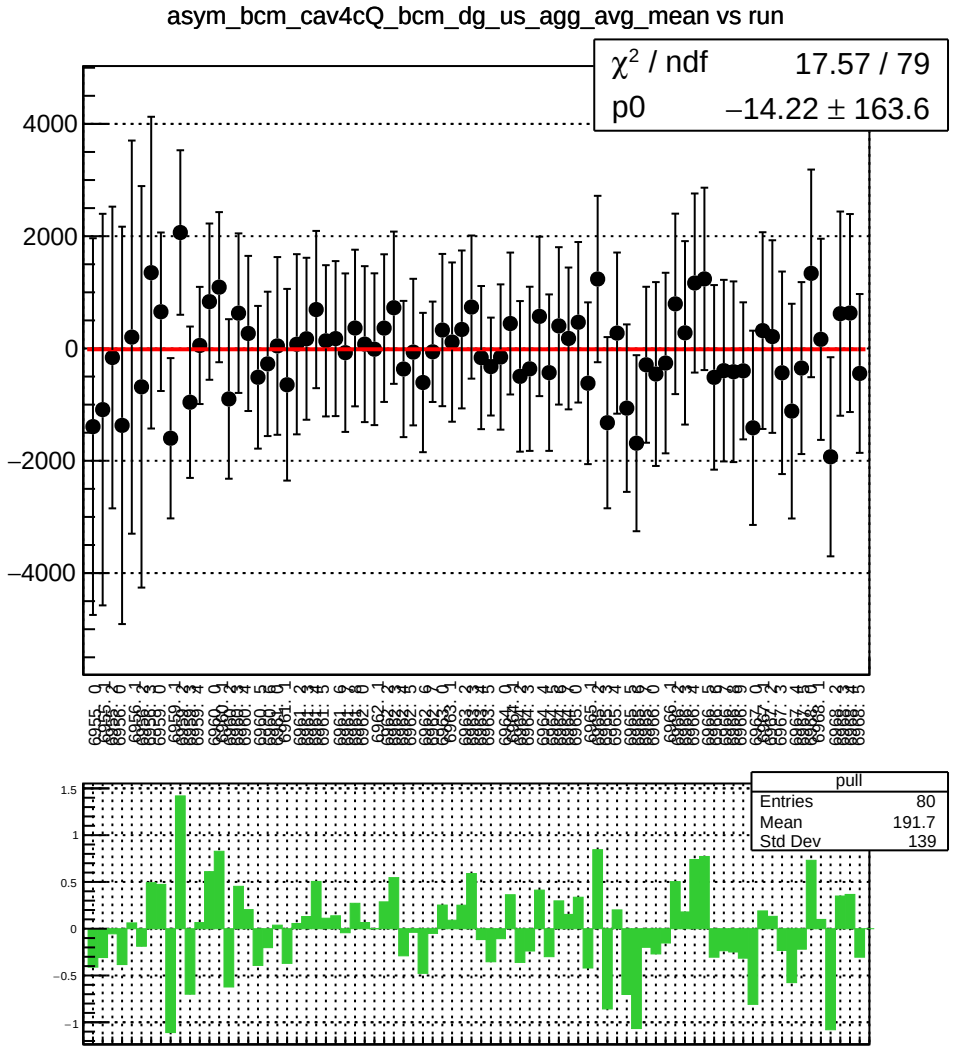

pull1D
Entries 80
Mean −0.01037
Std Dev 0.4624
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

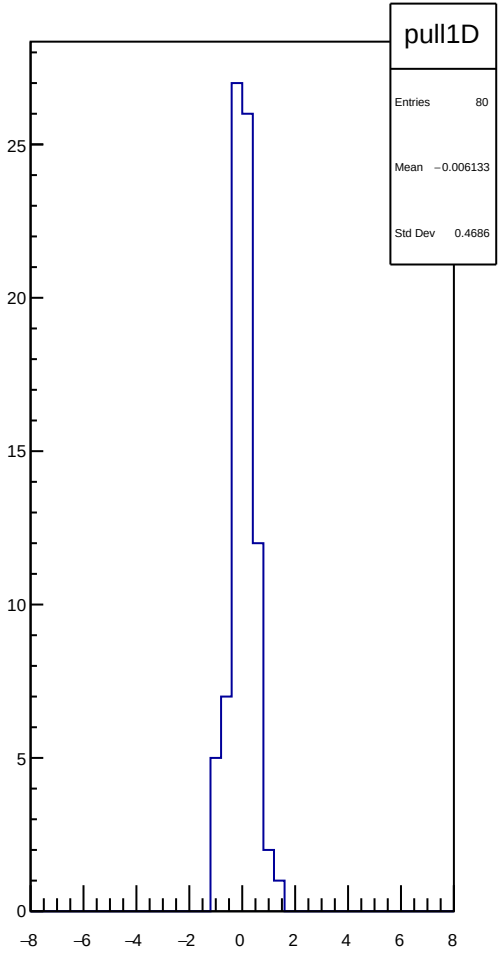

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7.401e+04 / 79
p0 138.7 ± 0.1137
350
300
250
200
150
100

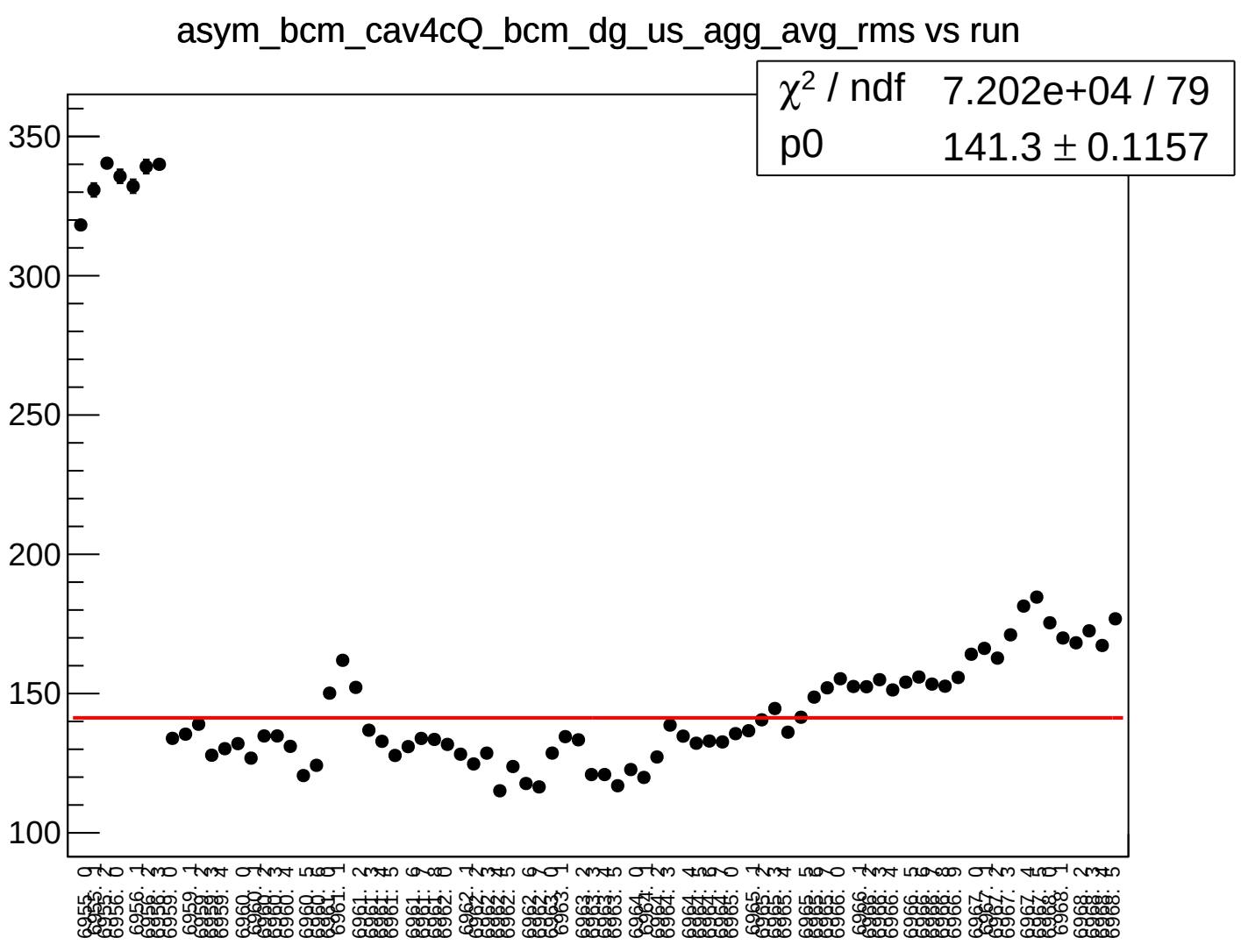

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 68.92 / 79
p0 −26.83 ± 35.26
1000
500
0
−500
−1000
pull
Entries 80
Mean 381.1
Std Dev 339.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

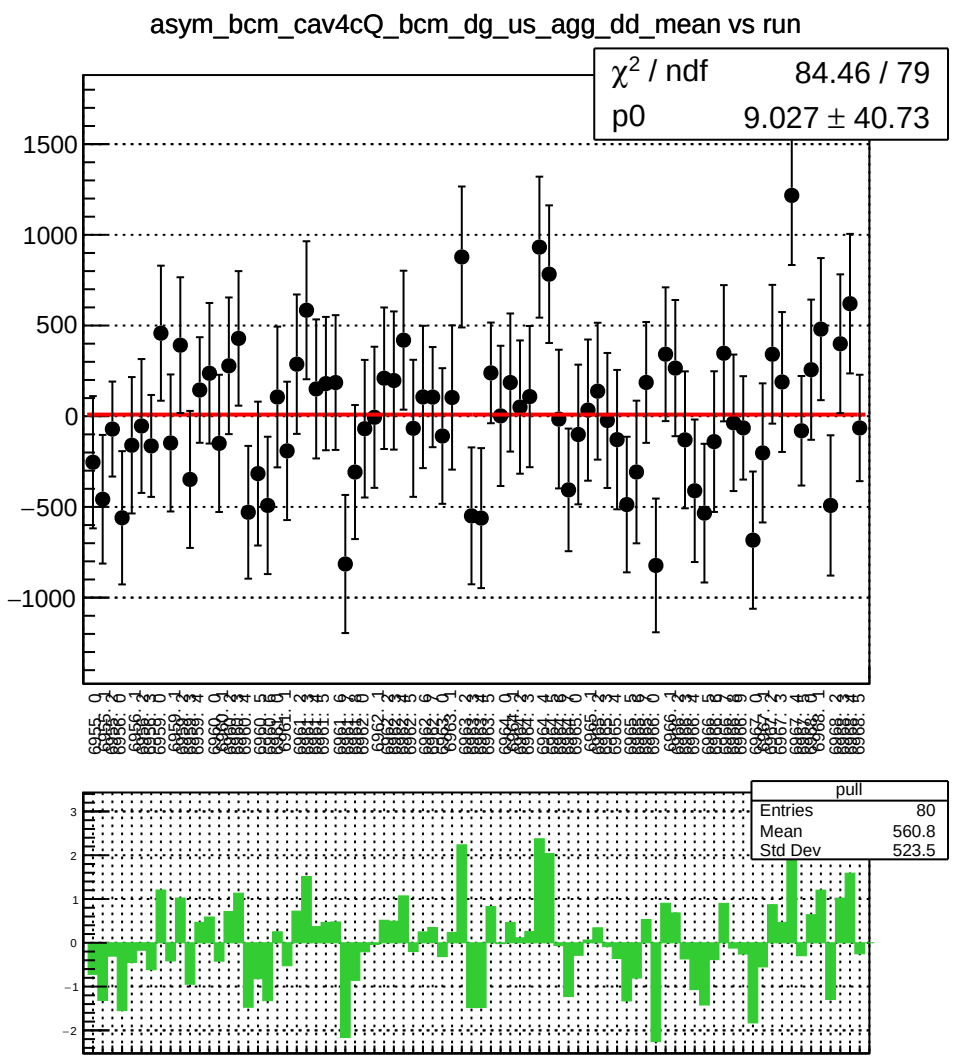

pull1D
Entries 80
Mean 0.005584
Std Dev 0.9282
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

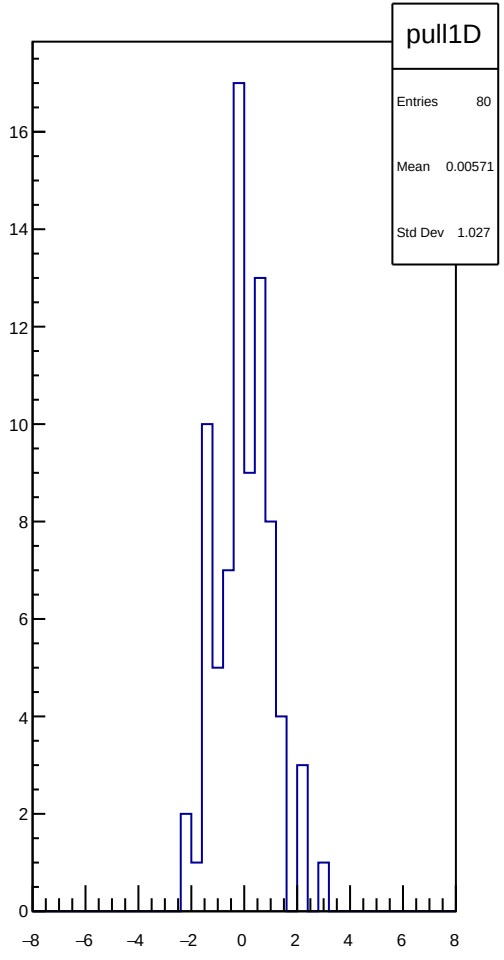

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1237 / 79
p0 31.16 ± 0.02493
33
32
31
30
29

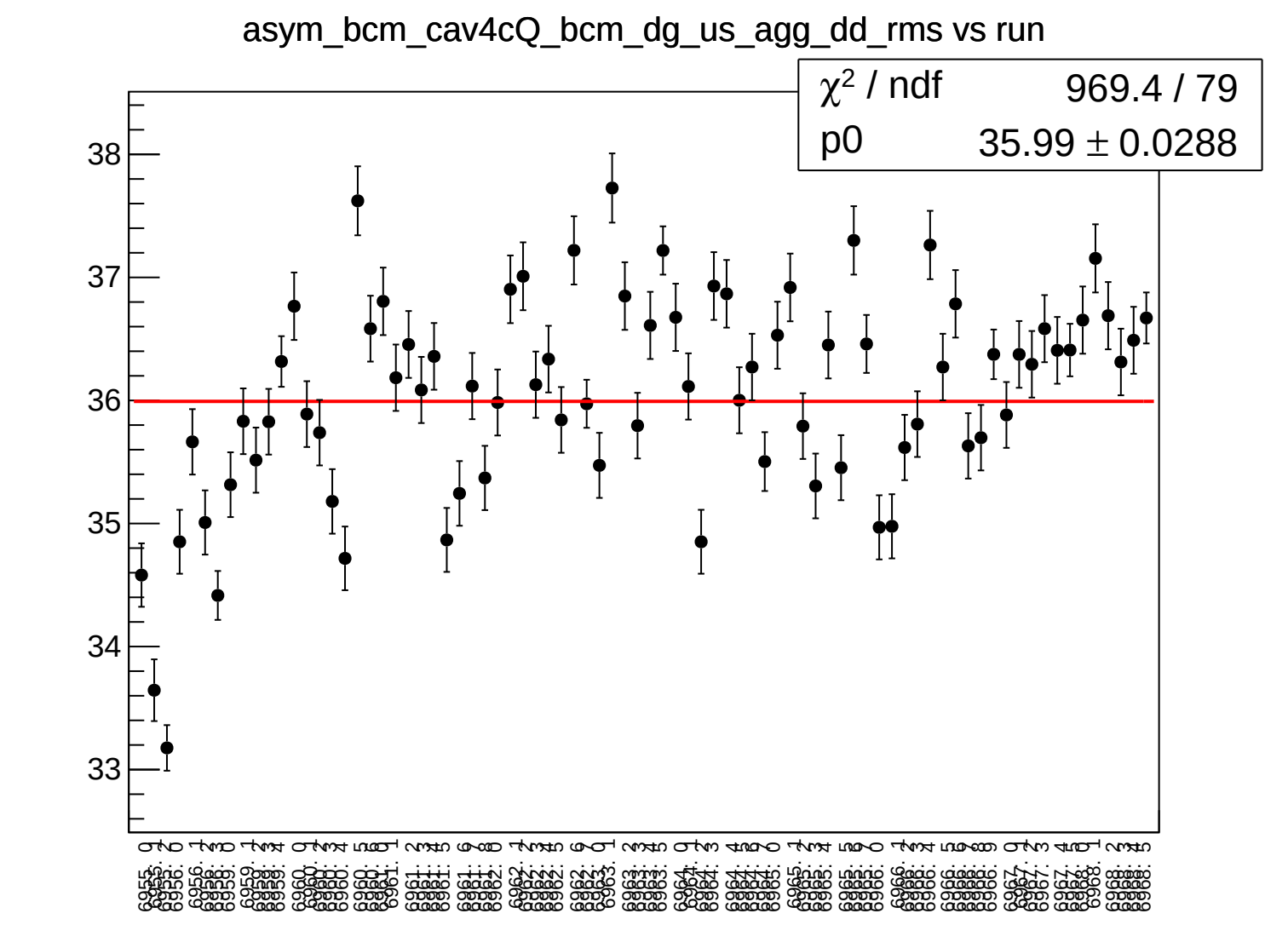

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 17.57 / 79
p0 −14.22 ± 163.6
4000
2000
0
−2000
−4000
pull
Entries 80
Mean 191.7
Std Dev 139
1.5
1
0.5
0
−0.5
−1

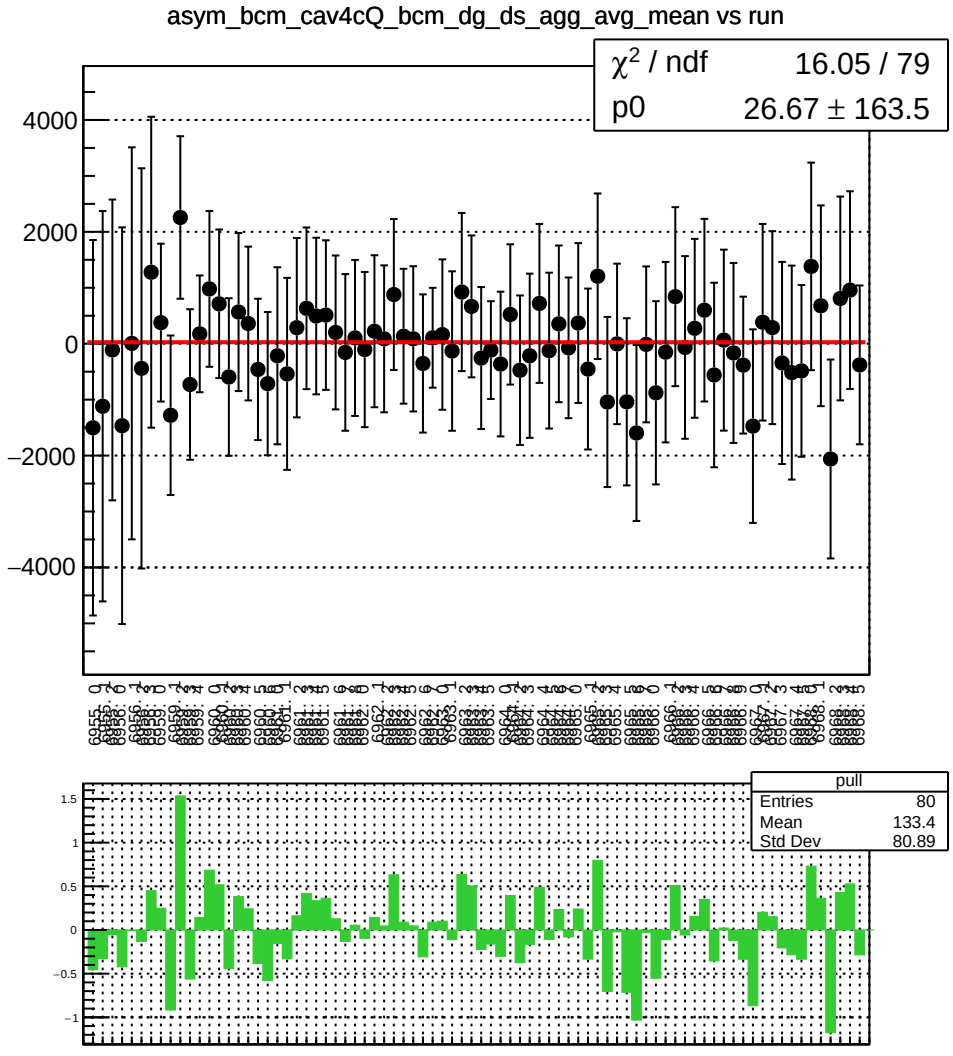

pull1D
Entries 80
Mean −0.006133
Std Dev 0.4686
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

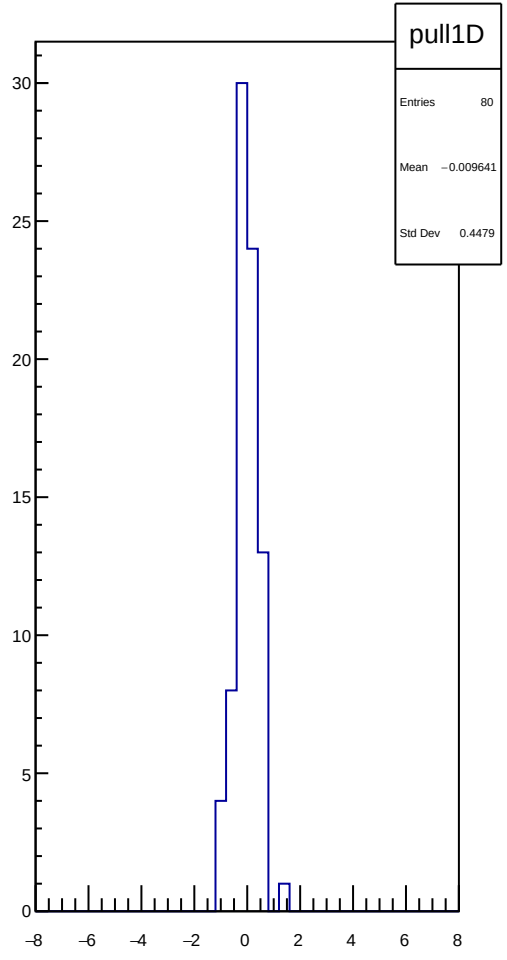

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 7.202e+04 / 79
p0 141.3 ± 0.1157
350
300
250
200
150
100

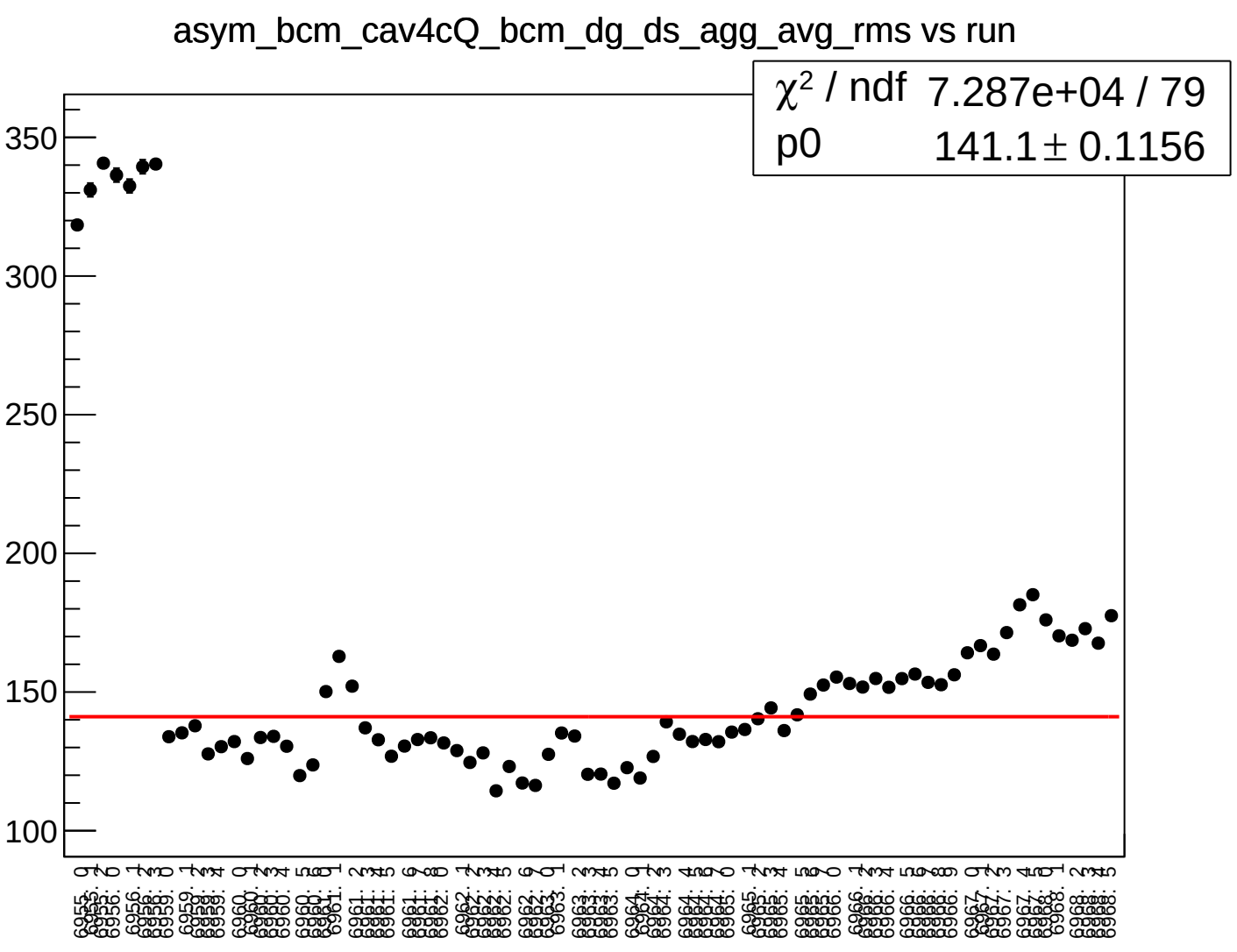

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 84.46 / 79
p0 9.027 ± 40.73
1500
1000
500
0
−500
−1000
pull
Entries 80
Mean 560.8
Std Dev 523.5
3
2
1
0
−1
−2

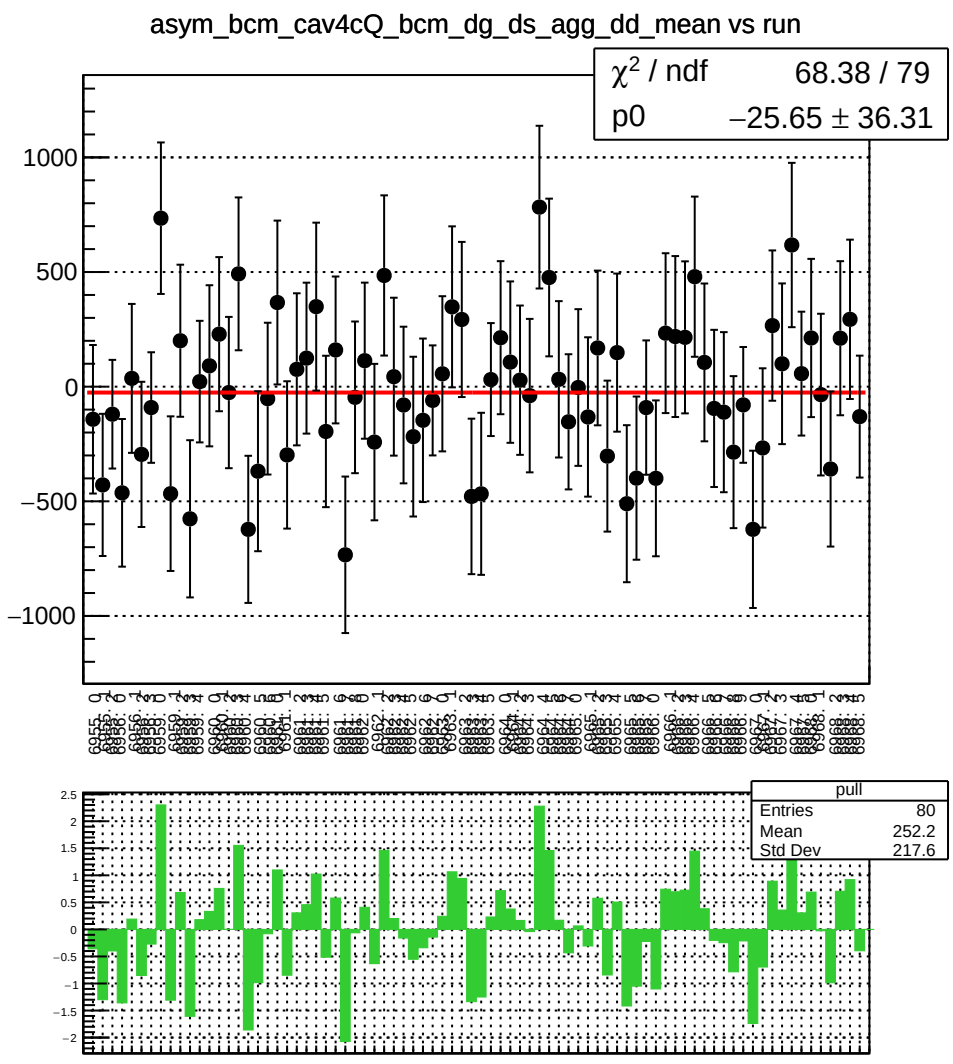

pull1D
Entries 80
Mean 0.00571
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

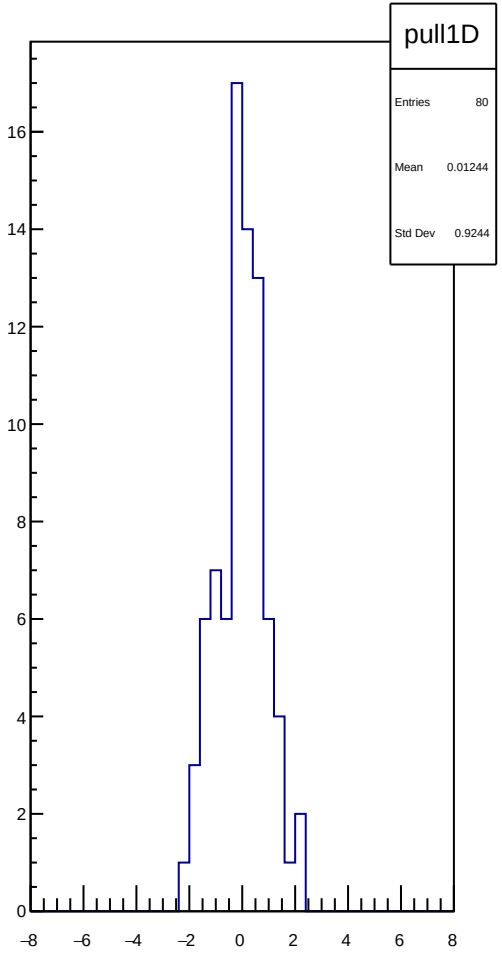

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 969.4 / 79
p0 35.99 ± 0.0288
38
37
36
35
34
33

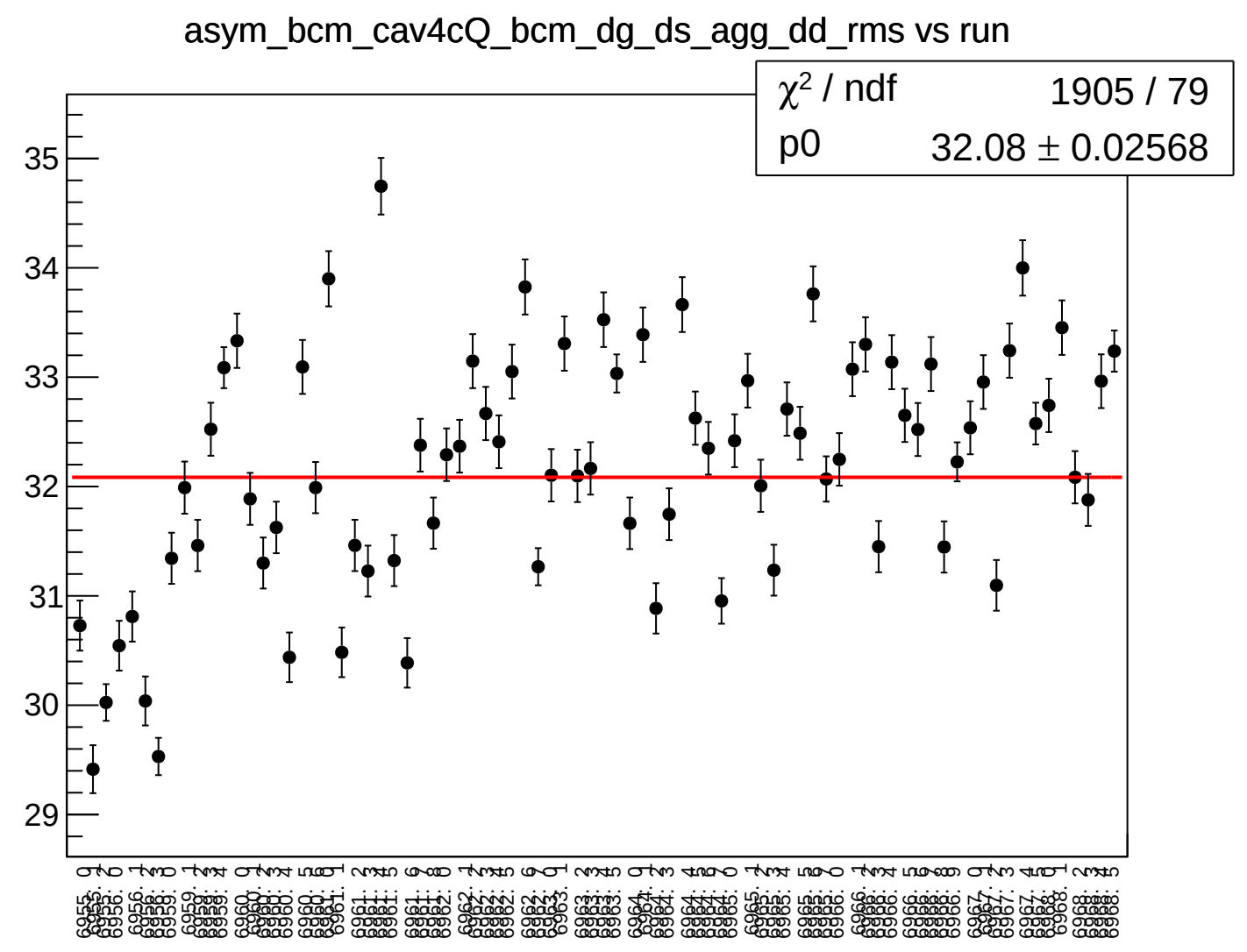

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 16.05 / 79
p0 26.67 ± 163.5
4000
2000
0
−2000
−4000
pull
Entries 80
Mean 133.4
Std Dev 80.89
1.5
1
0.5
0
−0.5
−1

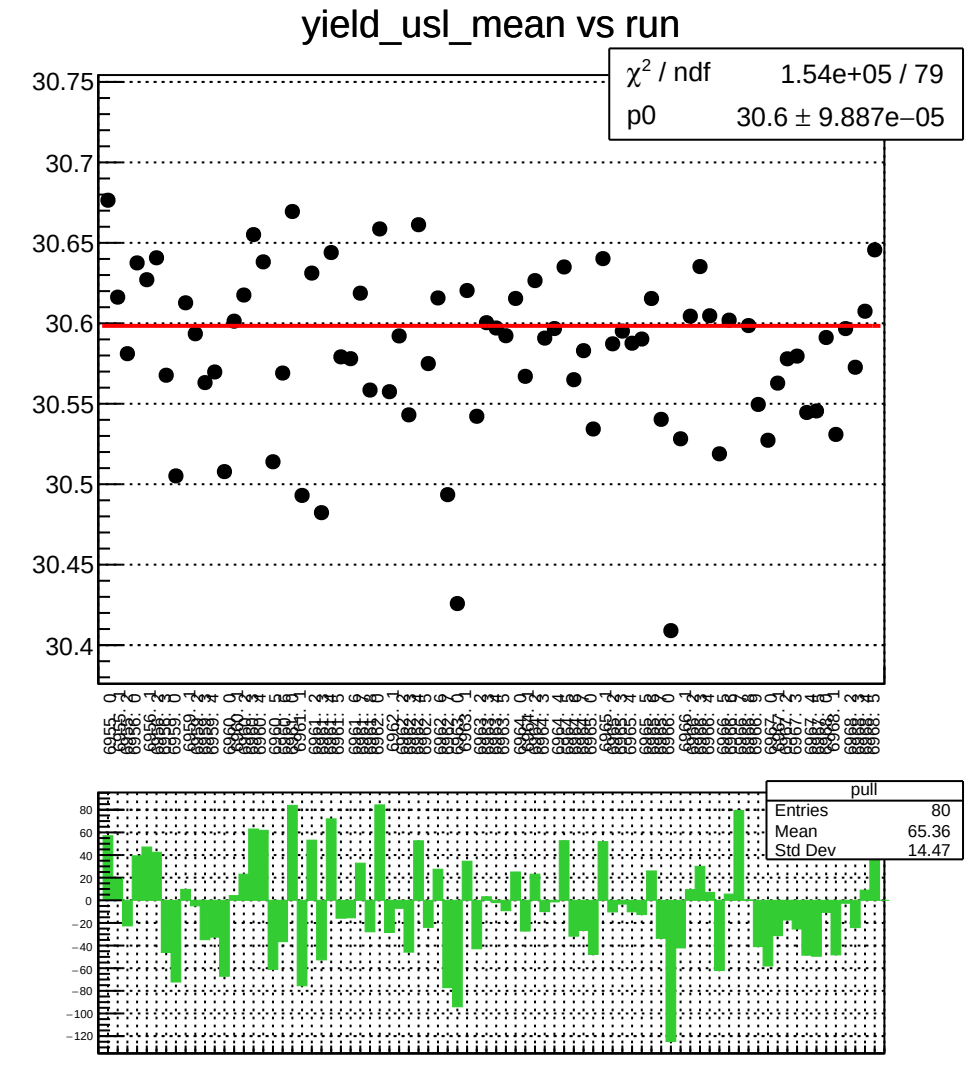

pull1D
Entries 80
Mean −0.009641
Std Dev 0.4479
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

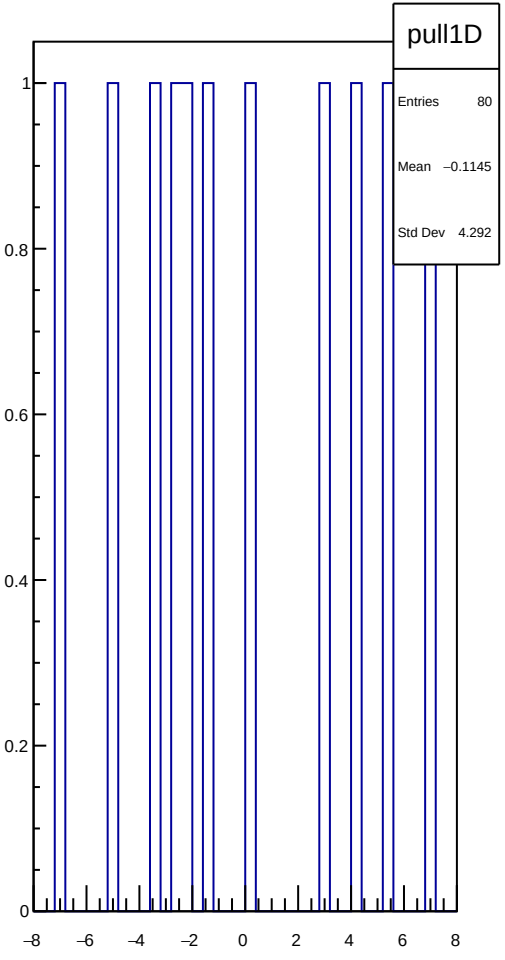

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 7.287e+04 / 79
p0 141.1 ± 0.1156
350
300
250
200
150
100

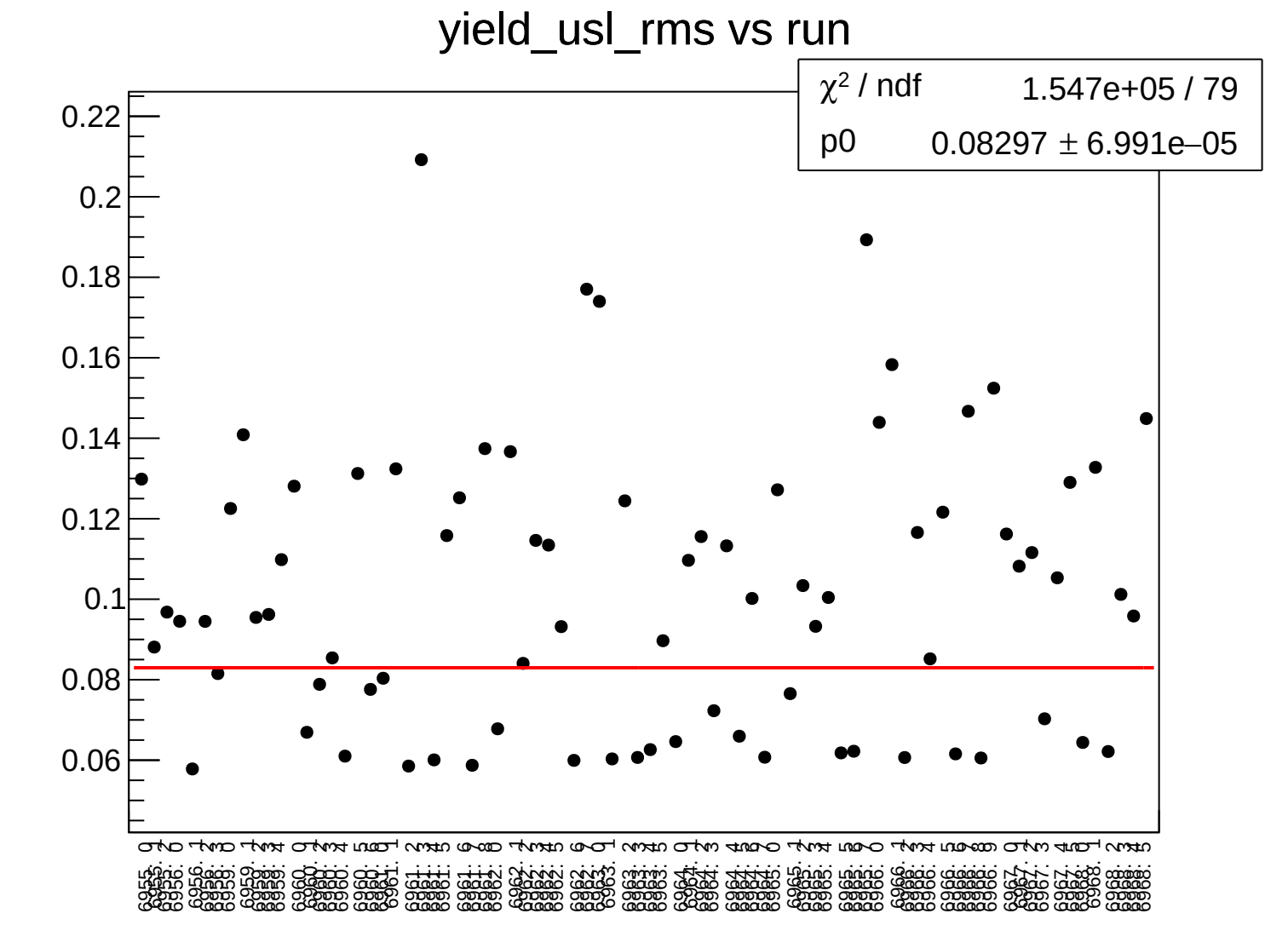

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 68.38 / 79
p0 −25.65 ± 36.31
pull
Entries 80
Mean 252.2
Std Dev 217.6

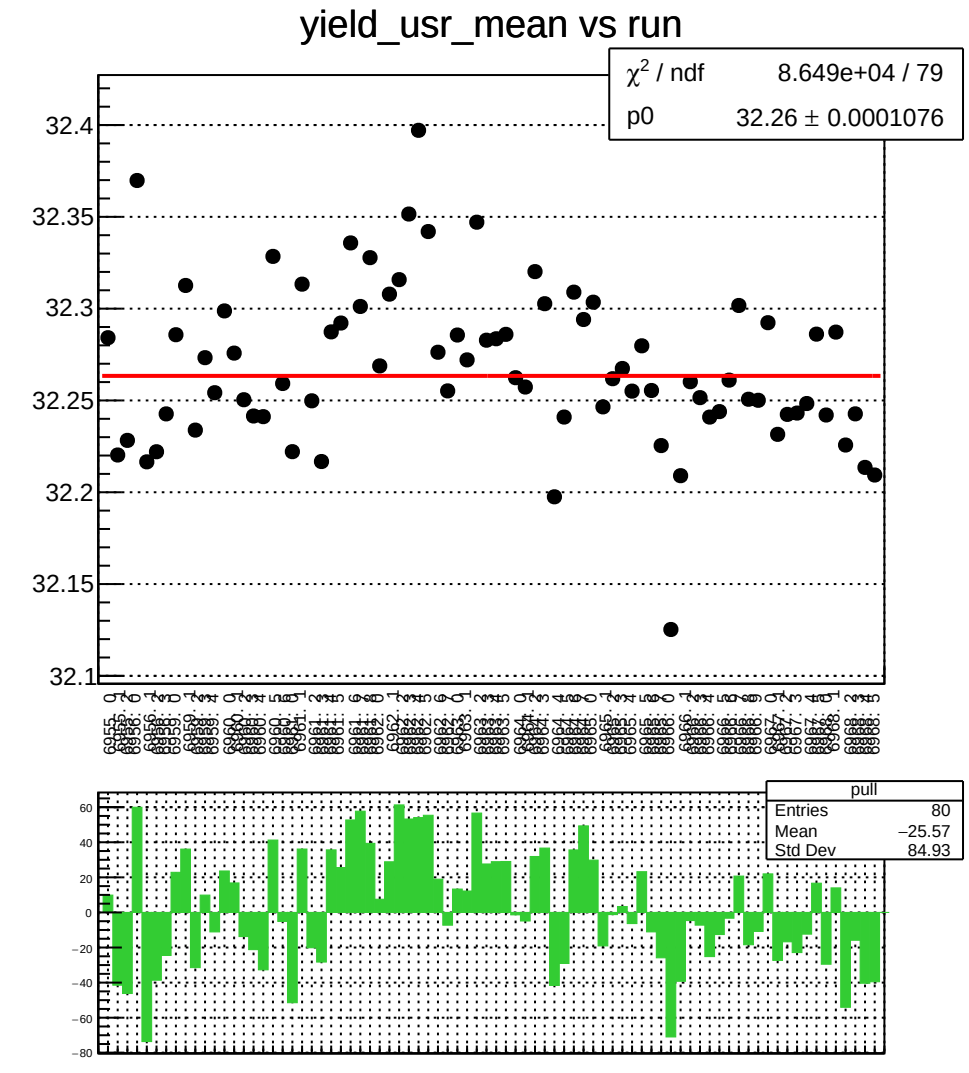

pull1D
Entries 80
Mean 0.01244
Std Dev 0.9244

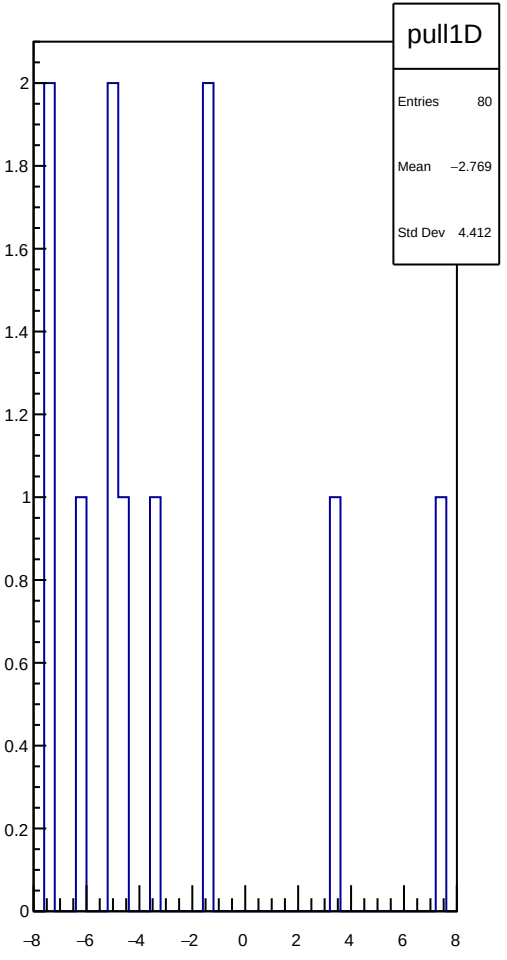

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1905 / 79
p0 32.08 ± 0.02568
35
34
33
32
31
30
29

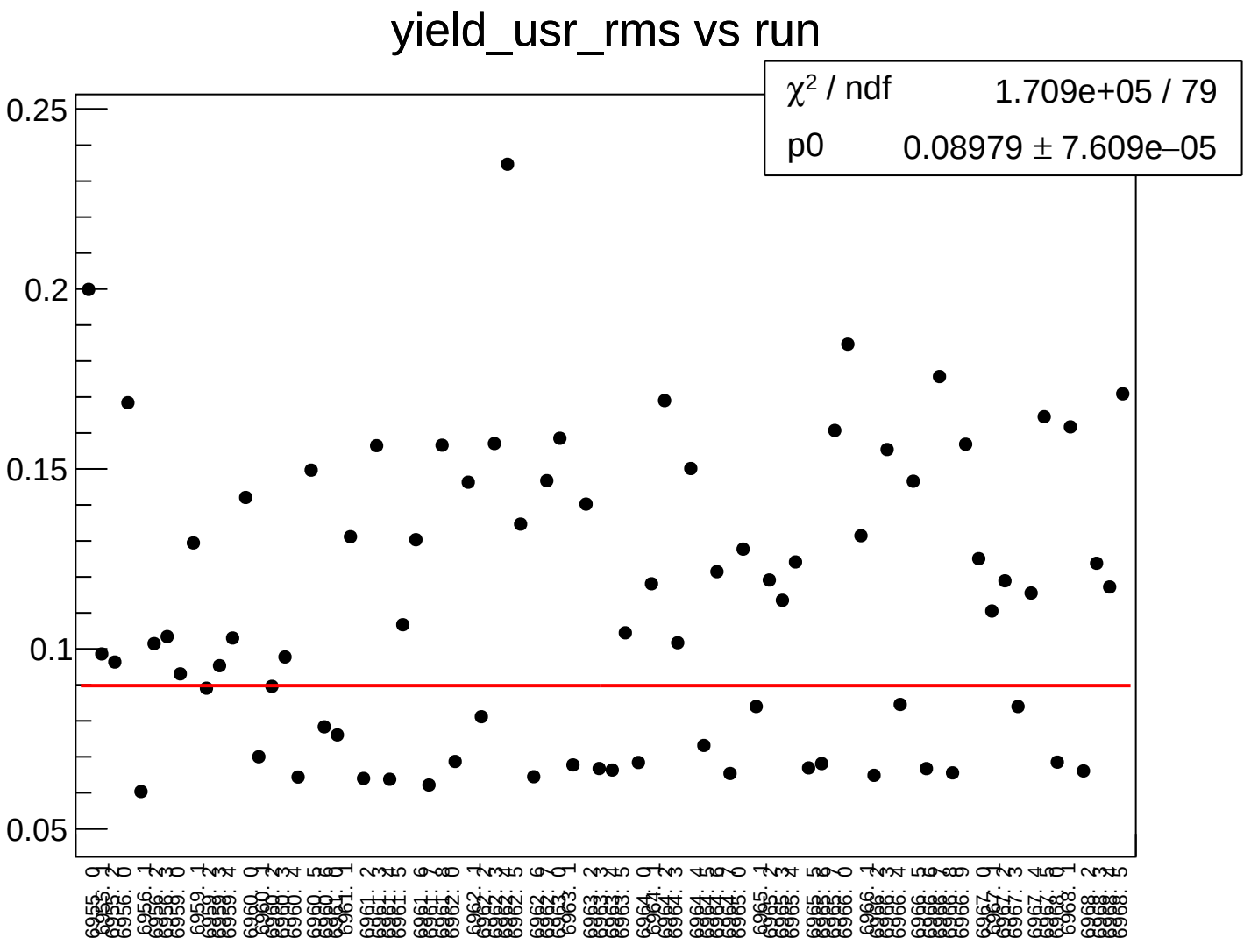

yield_usl_mean vs run
χ² / ndf 1.54e+05 / 79
p0 30.6 ± 9.887e−05
30.75
30.7
30.65
30.6
30.55
30.5
30.45
30.4
pull
Entries 80
Mean 65.36
Std Dev 14.47
80
60
40
20
0
−20
−40
−60
−80
−100
−120

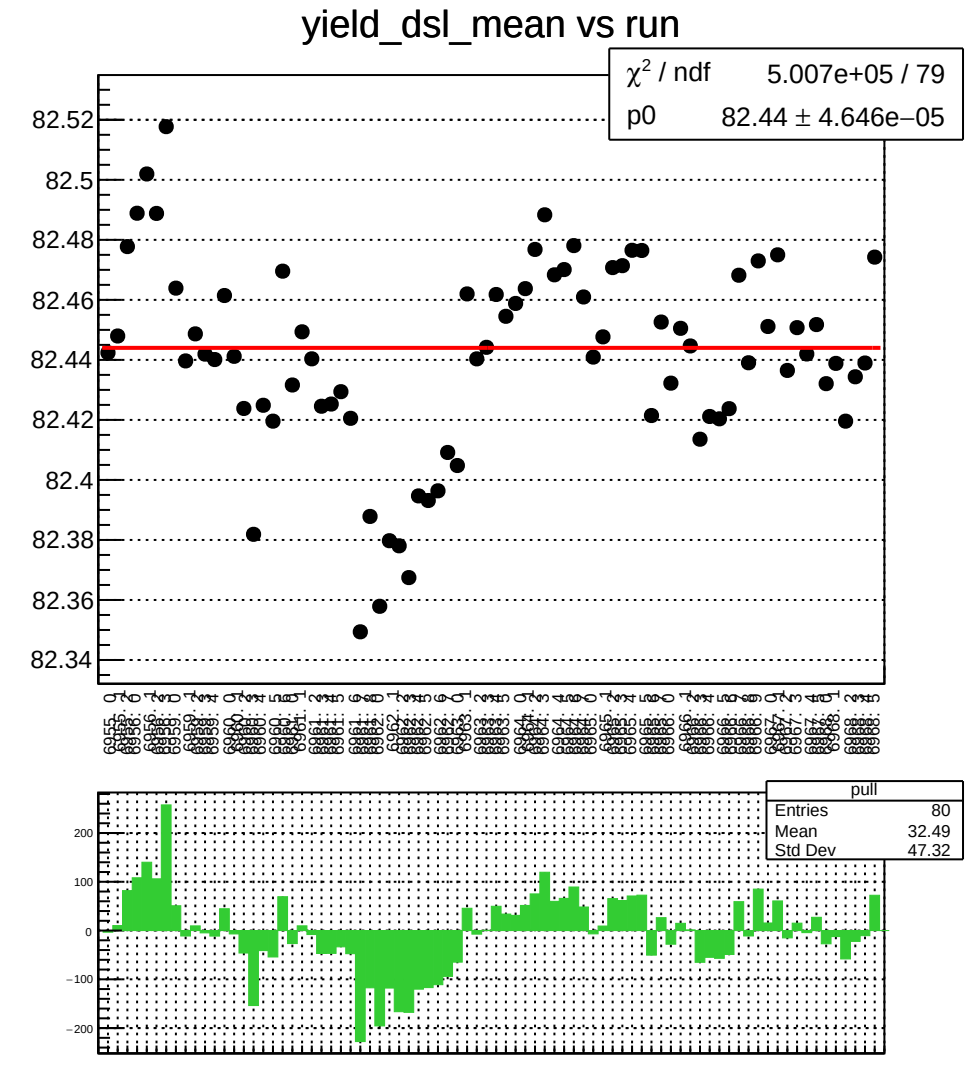

pull1D
Entries 80
Mean −0.1145
Std Dev 4.292
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

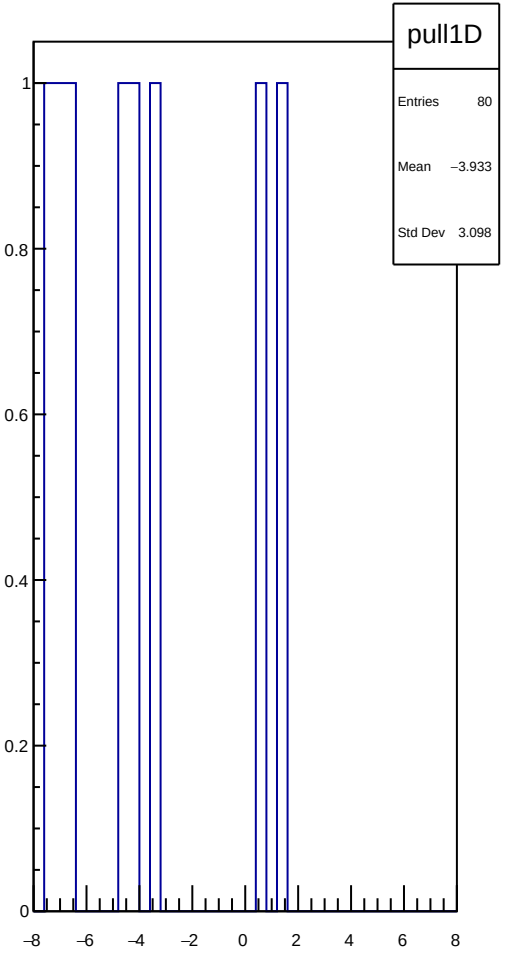

yield_usl_rms vs run
χ² / ndf 1.547e+05 / 79
p0 0.08297 ± 6.991e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

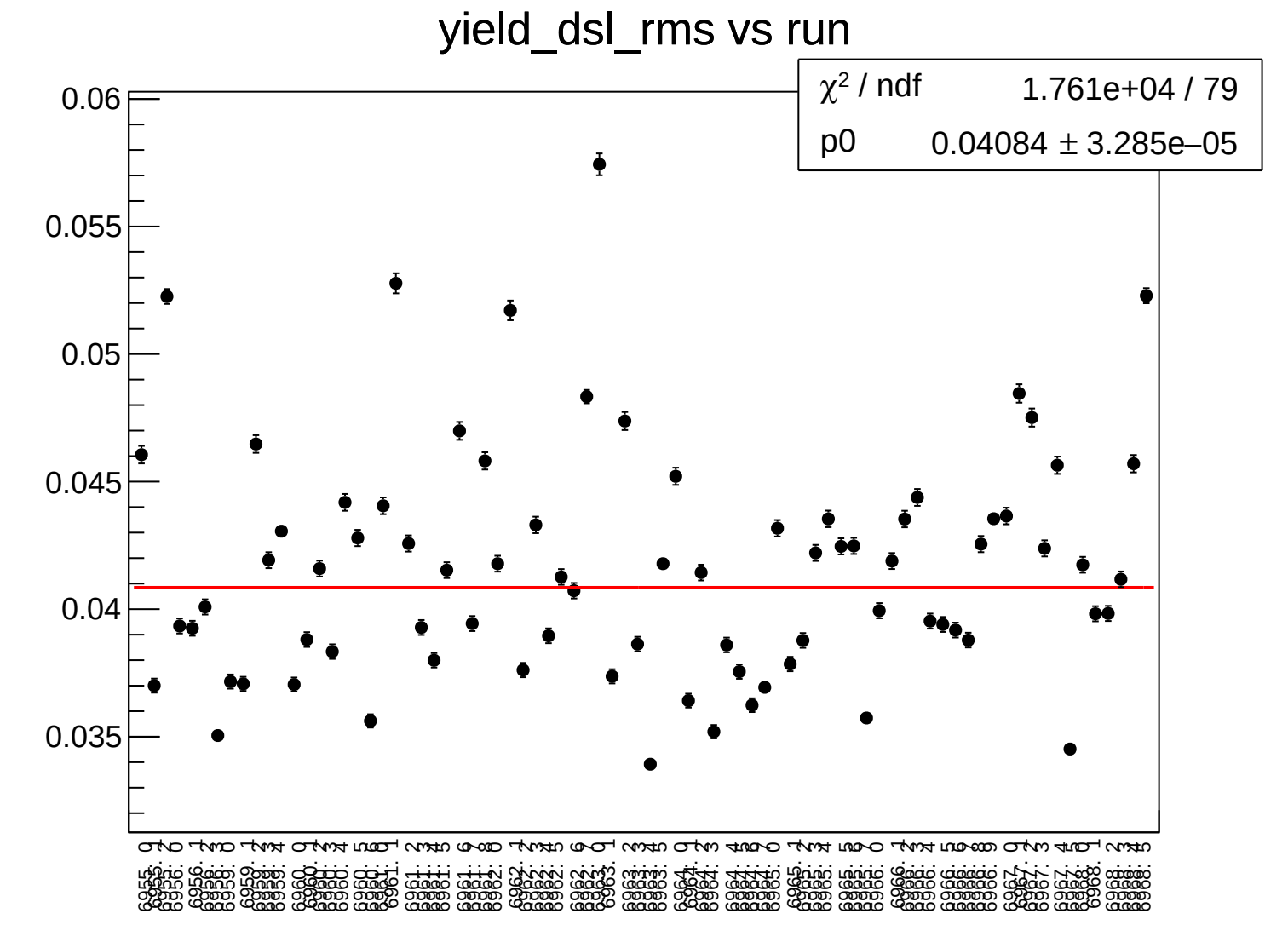

yield_usr_mean vs run
χ² / ndf 8.649e+04 / 79
p0 32.26 ± 0.0001076
32.4
32.35
32.3
32.25
32.2
32.15
32.1
pull
Entries 80
Mean −25.57
Std Dev 84.93
60
40
20
0
−20
−40
−60
−80

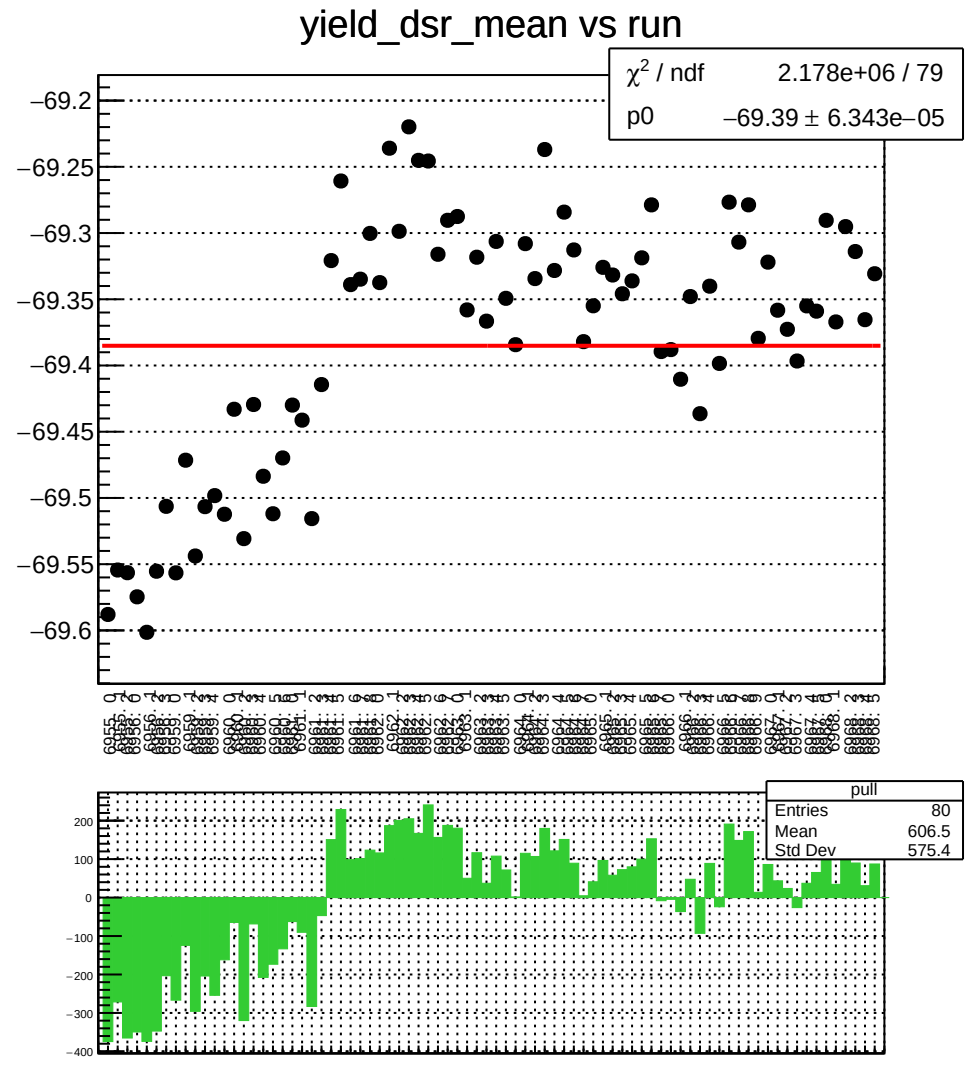

pull1D
Entries 80
Mean −2.769
Std Dev 4.412
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

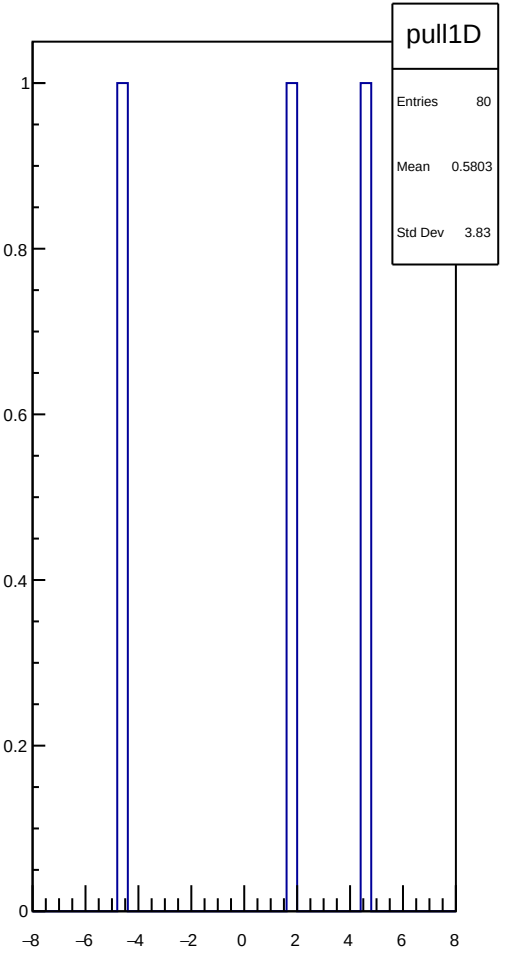

yield_usr_rms vs run
χ² / ndf 1.709e+05 / 79
p0 0.08979 ± 7.609e−05
0.25
0.2
0.15
0.1
0.05

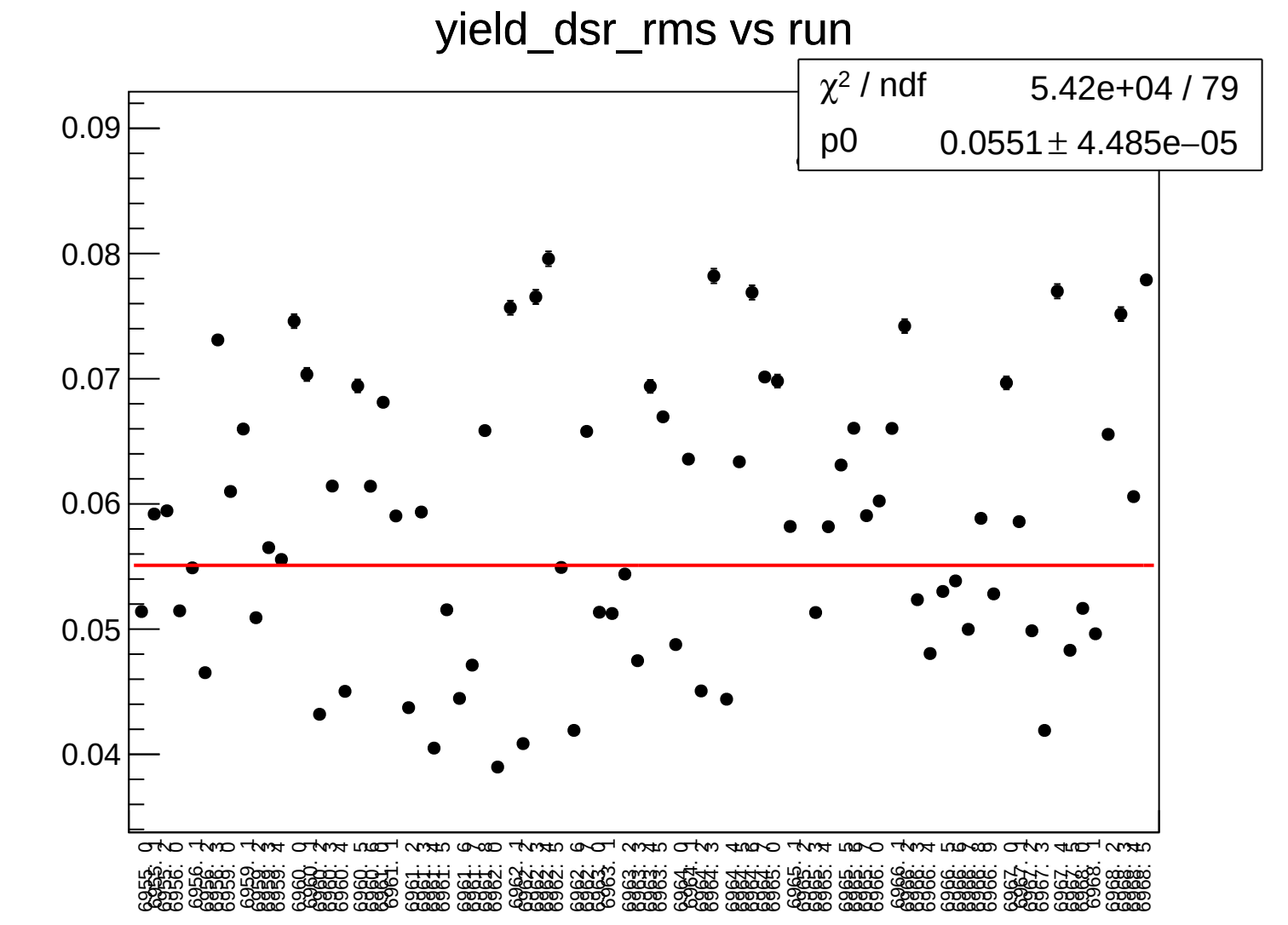

yield_dsl_mean vs run
χ² / ndf 5.007e+05 / 79
p0 82.44 ± 4.646e−05
82.52
82.5
82.48
82.46
82.44
82.42
82.4
82.38
82.36
82.34
pull
Entries 80
Mean 32.49
Std Dev 47.32
200
100
0
−100
−200

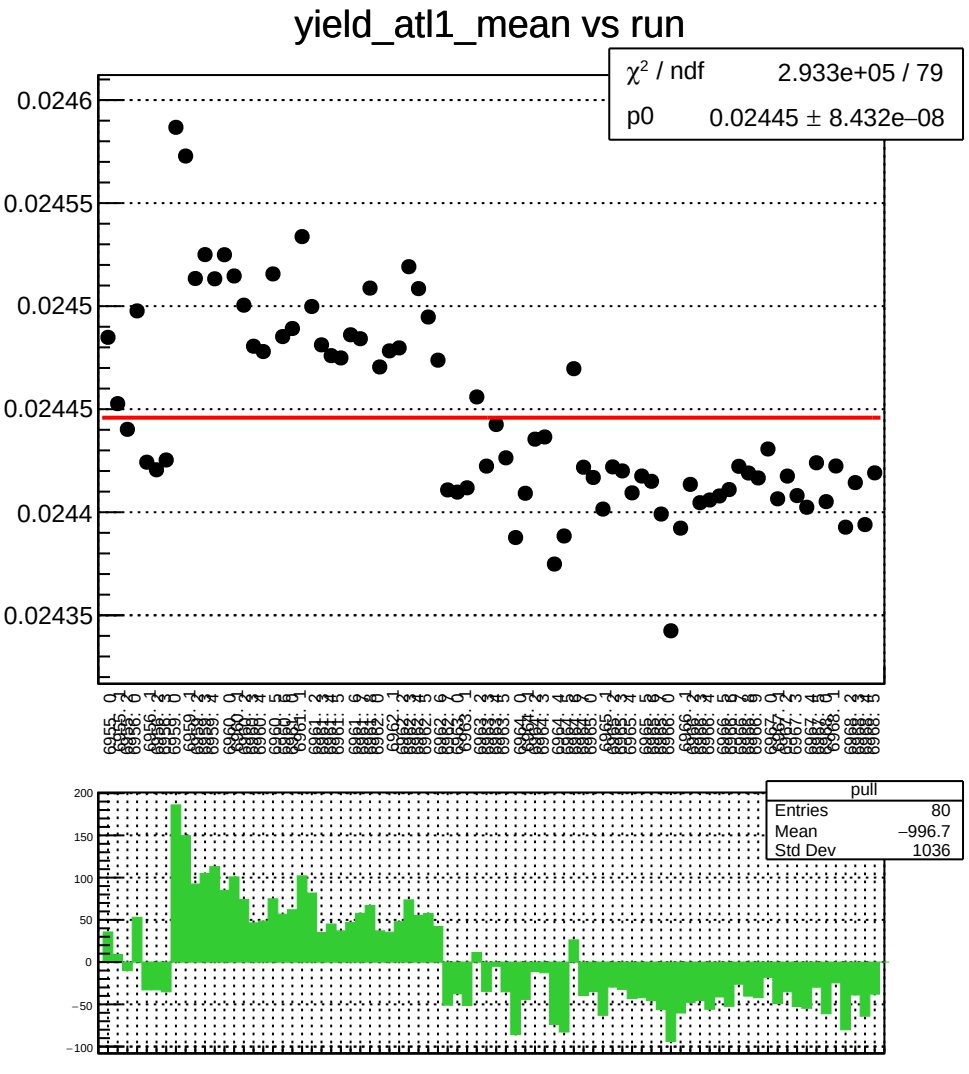

pull1D
Entries 80
Mean −3.933
Std Dev 3.098
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

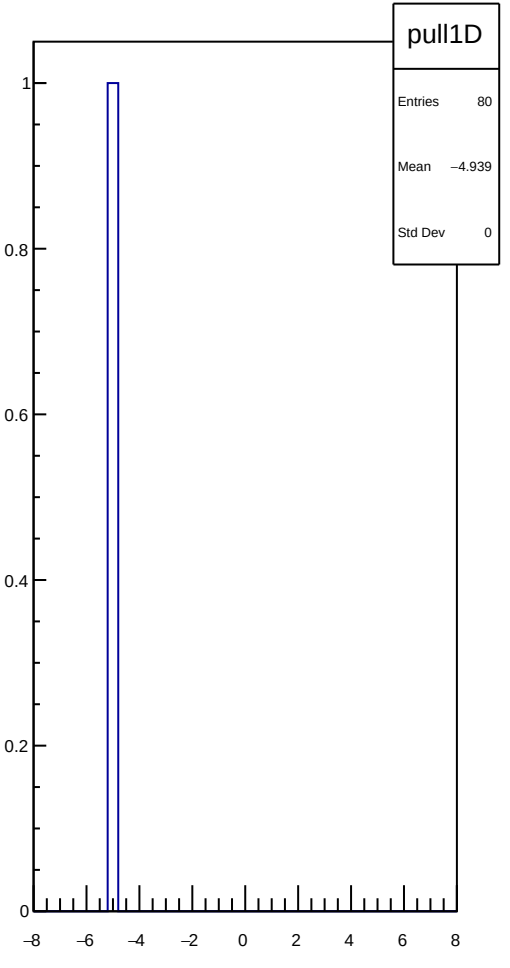

yield_dsl_rms vs run
χ² / ndf 1.761e+04 / 79
p0 0.04084 ± 3.285e−05
0.06
0.055
0.05
0.045
0.04
0.035

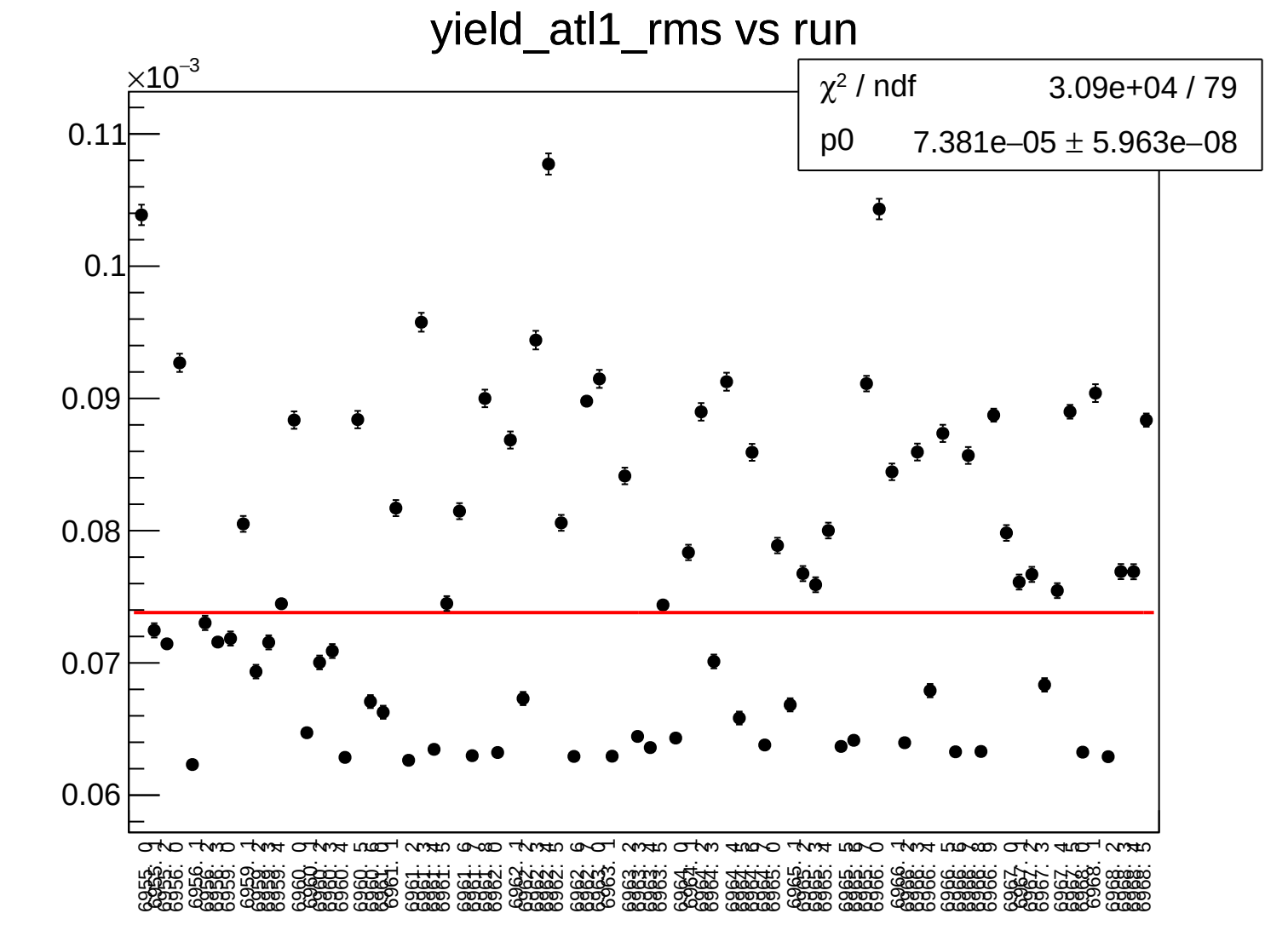

yield_dsr_mean vs run
χ² / ndf 2.178e+06 / 79
p0 −69.39 ± 6.343e−05
−69.2
−69.25
−69.3
−69.35
−69.4
−69.45
−69.5
−69.55
−69.6
pull
Entries 80
Mean 606.5
Std Dev 575.4
200
100
0
−100
−200
−300
−400

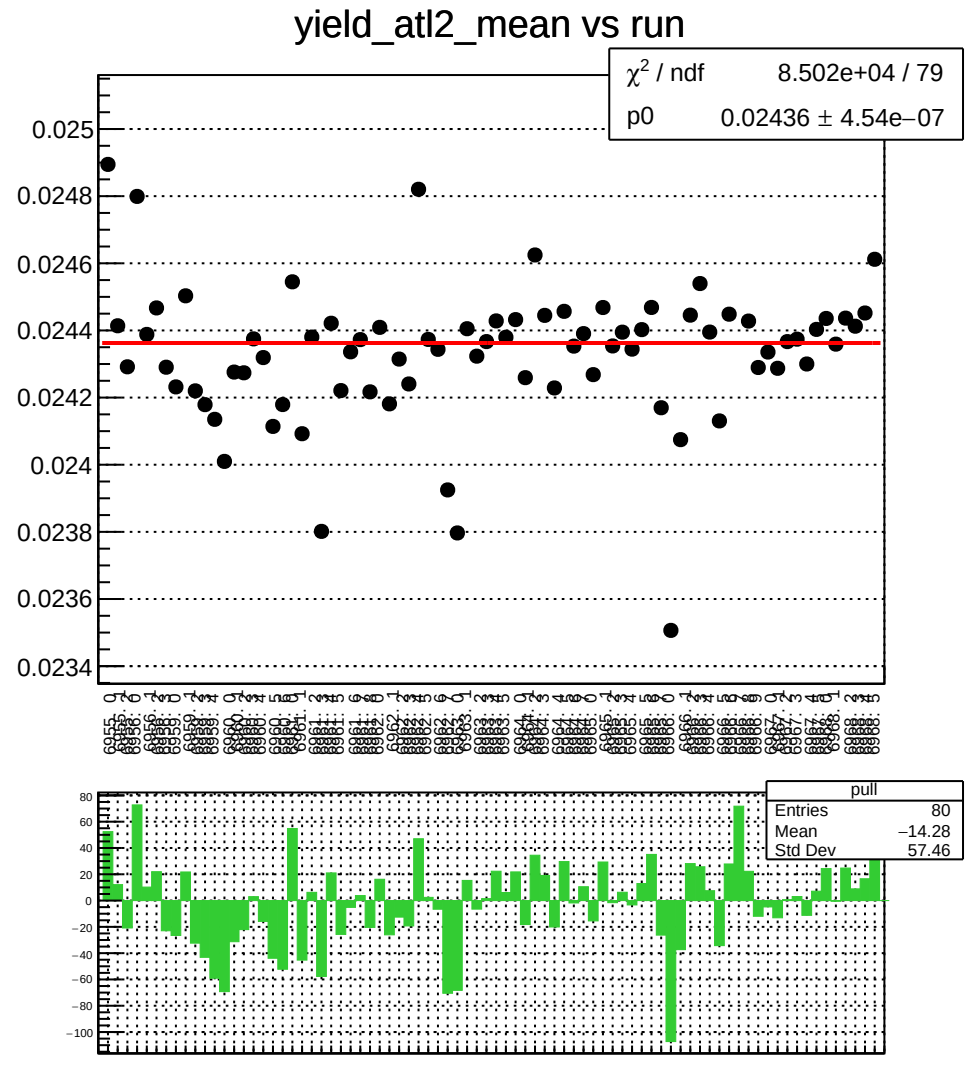

pull1D
Entries 80
Mean 0.5803
Std Dev 3.83
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

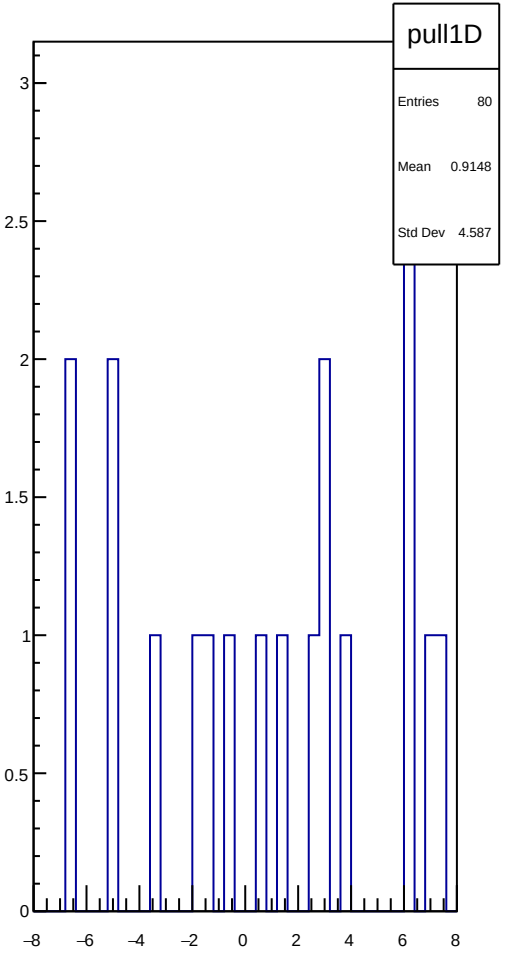

yield_dsr_rms vs run
χ² / ndf 5.42e+04 / 79
p0 0.0551 ± 4.485e−05
0.09
0.08
0.07
0.06
0.05
0.04

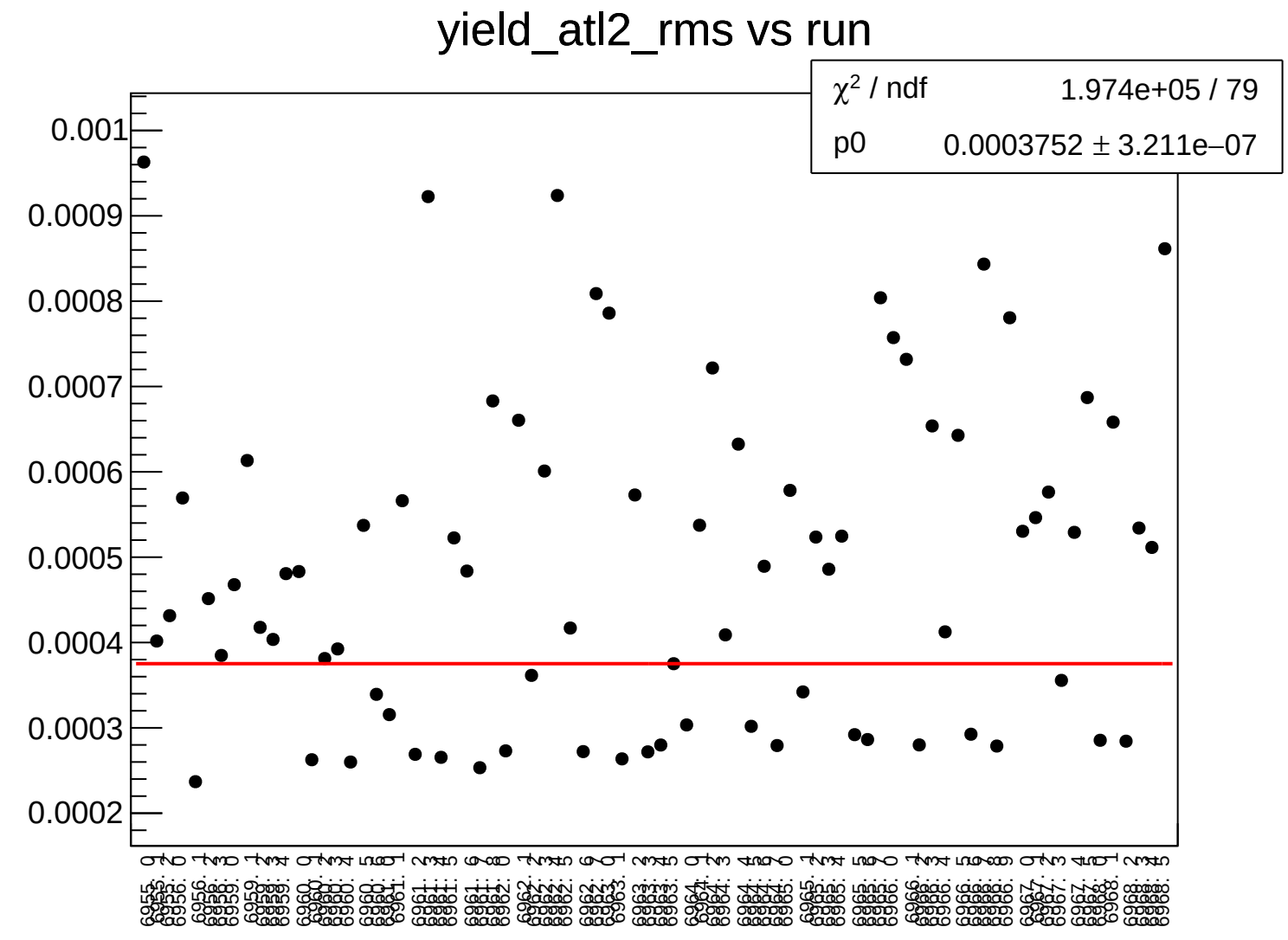

yield_atl1_mean vs run
χ² / ndf 2.933e+05 / 79
p0 0.02445 ± 8.432e−08
0.0246
0.02455
0.0245
0.02445
0.0244
0.02435
pull
Entries 80
Mean −996.7
Std Dev 1036
200
150
100
50
0
−50
−100

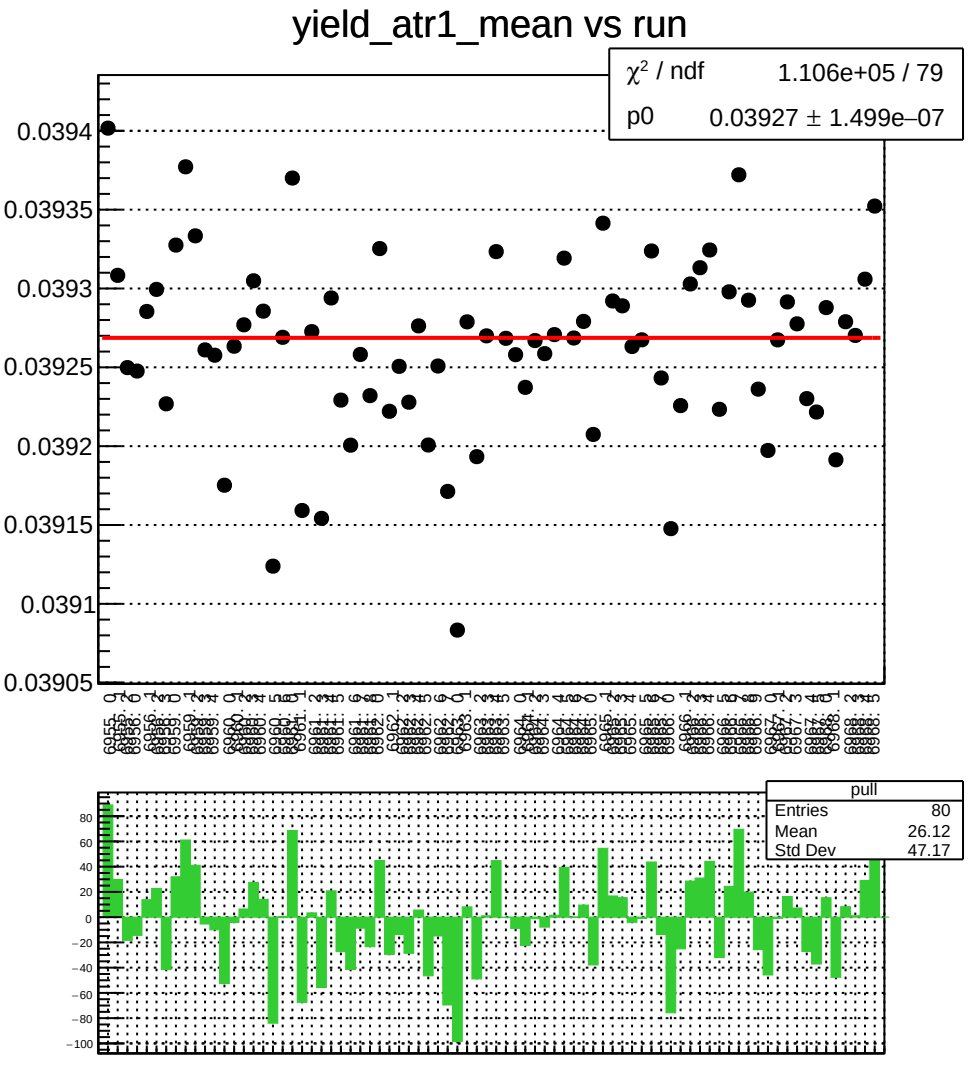

pull1D
Entries 80
Mean −4.939
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

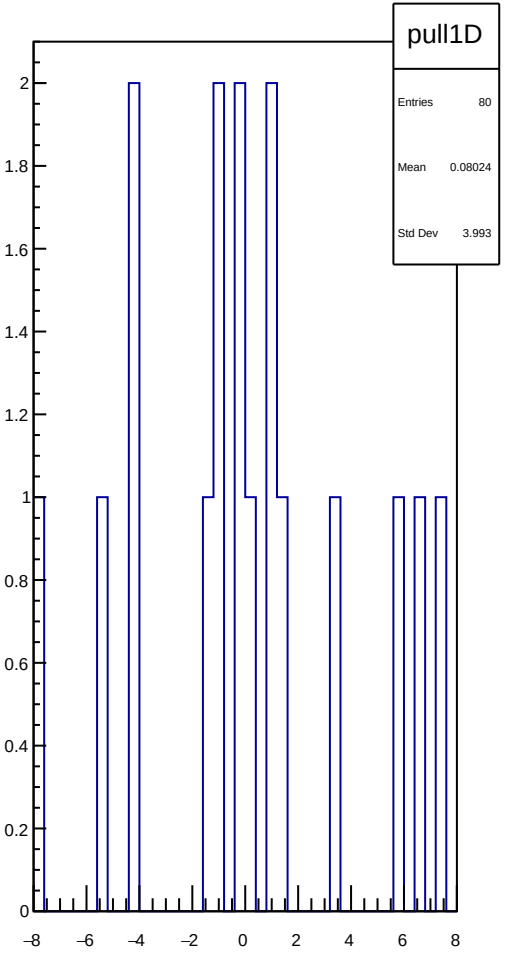

yield_atl1_rms vs run
×10⁻³
χ² / ndf 3.09e+04 / 79
p0 7.381e−05 ± 5.963e−08
0.11
0.1
0.09
0.08
0.07
0.06

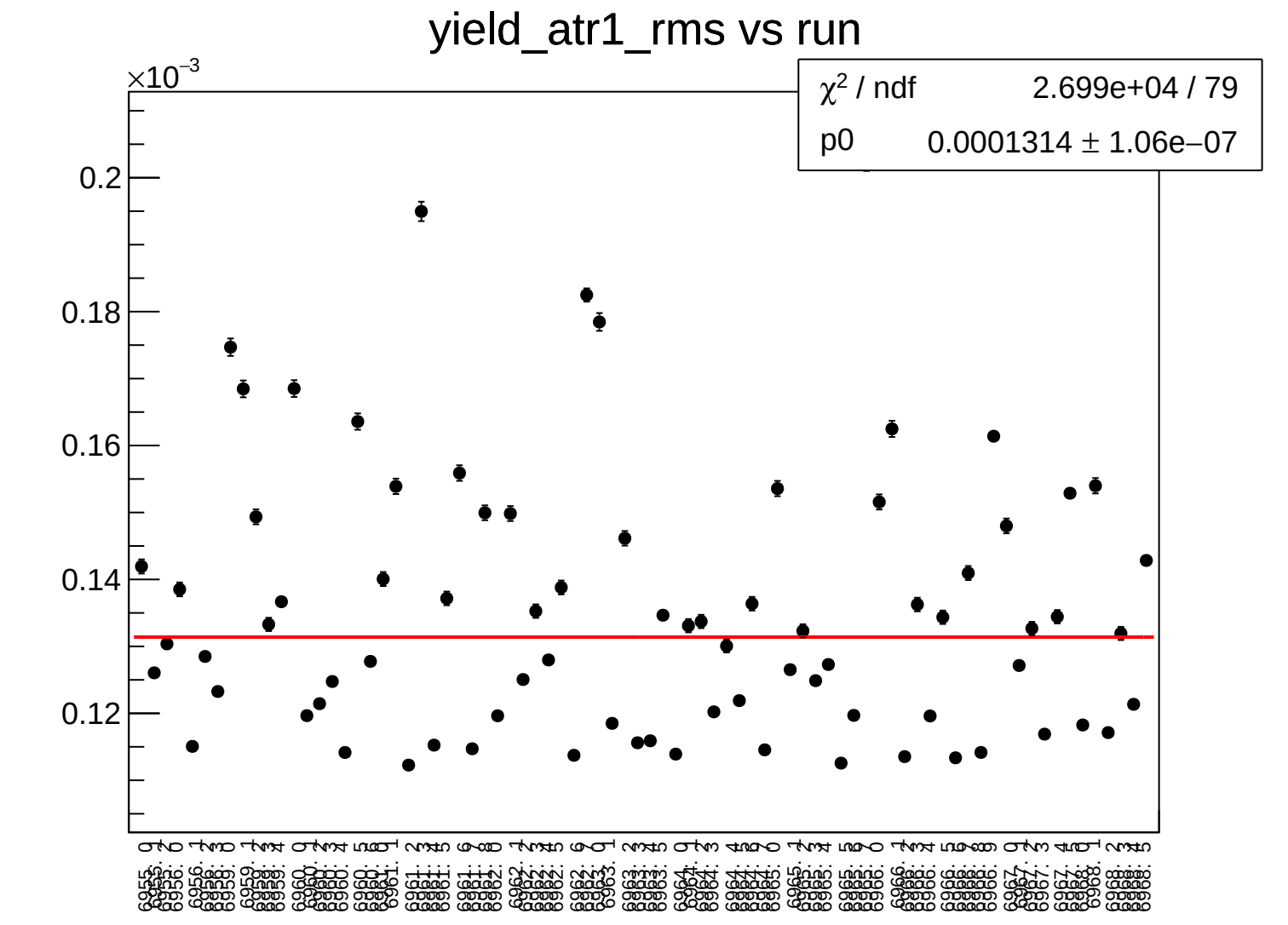

yield_atl2_mean vs run
χ² / ndf 8.502e+04 / 79
p0 0.02436 ± 4.54e−07
0.025
0.0248
0.0246
0.0244
0.0242
0.024
0.0238
0.0236
0.0234
pull
Entries 80
Mean −14.28
Std Dev 57.46
80
60
40
20
0
−20
−40
−60
−80
−100

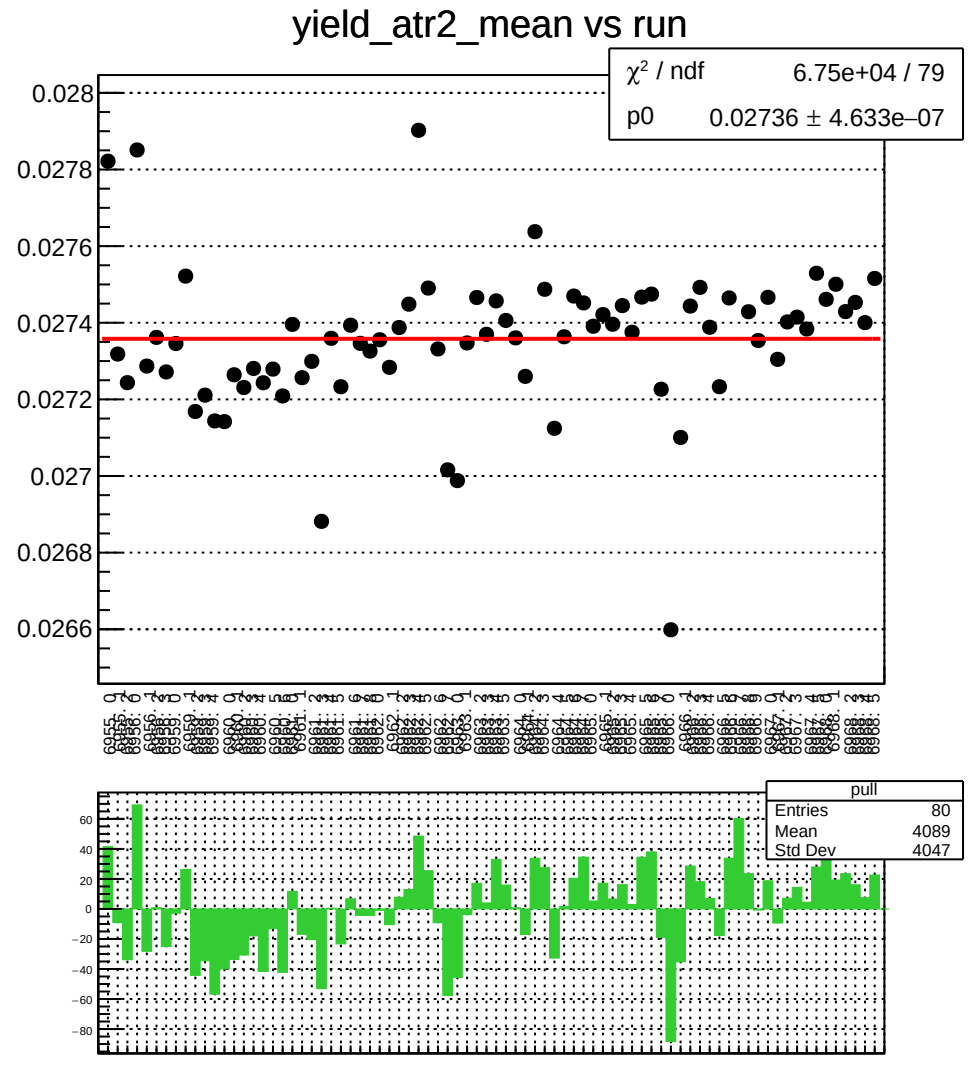

pull1D
Entries 80
Mean 0.9148
Std Dev 4.587
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

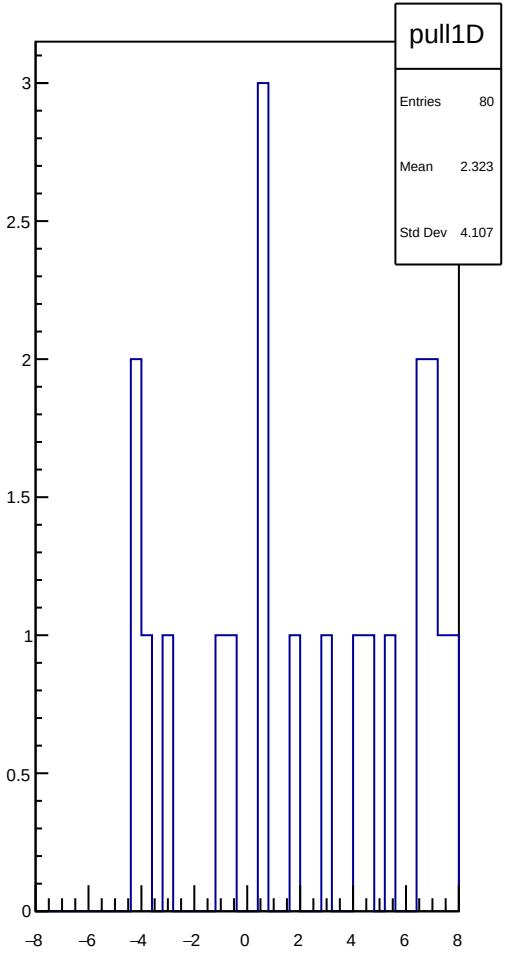

yield_atl2_rms vs run
χ² / ndf 1.974e+05 / 79
p0 0.0003752 ± 3.211e−07
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002

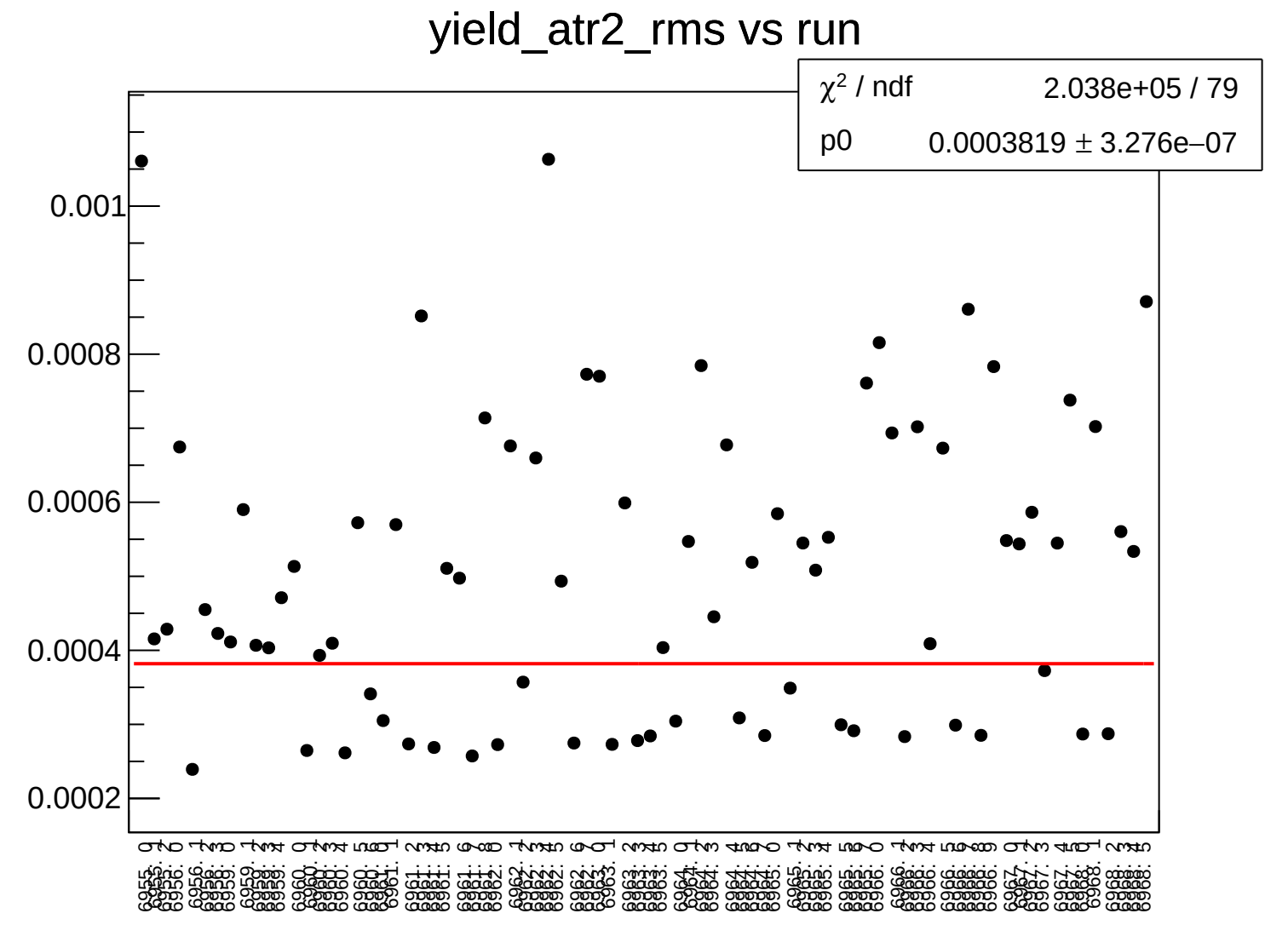

yield_atr1_mean vs run
χ² / ndf 1.106e+05 / 79
p0 0.03927 ± 1.499e−07
0.0394
0.03935
0.0393
0.03925
0.0392
0.03915
0.0391
0.03905
pull
Entries 80
Mean 26.12
Std Dev 47.17
80
60
40
20
0
−20
−40
−60
−80
−100

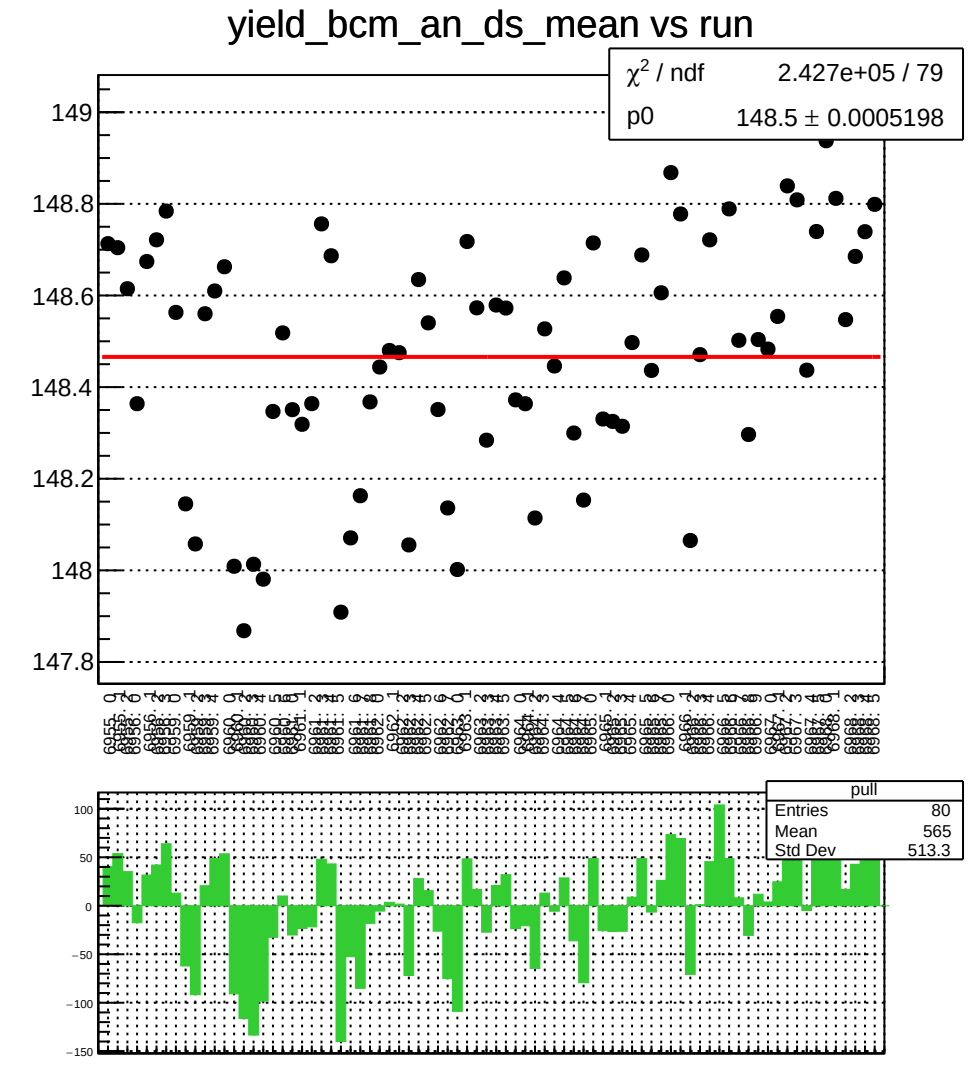

pull1D
Entries 80
Mean 0.08024
Std Dev 3.993
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

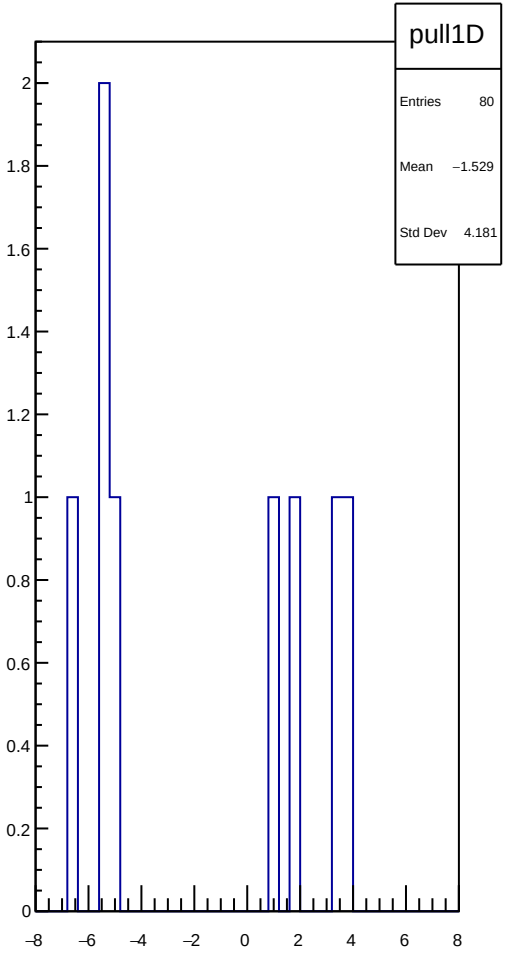

yield_atr1_rms vs run
×10⁻³
χ² / ndf 2.699e+04 / 79
p0 0.0001314 ± 1.06e−07
0.2
0.18
0.16
0.14
0.12

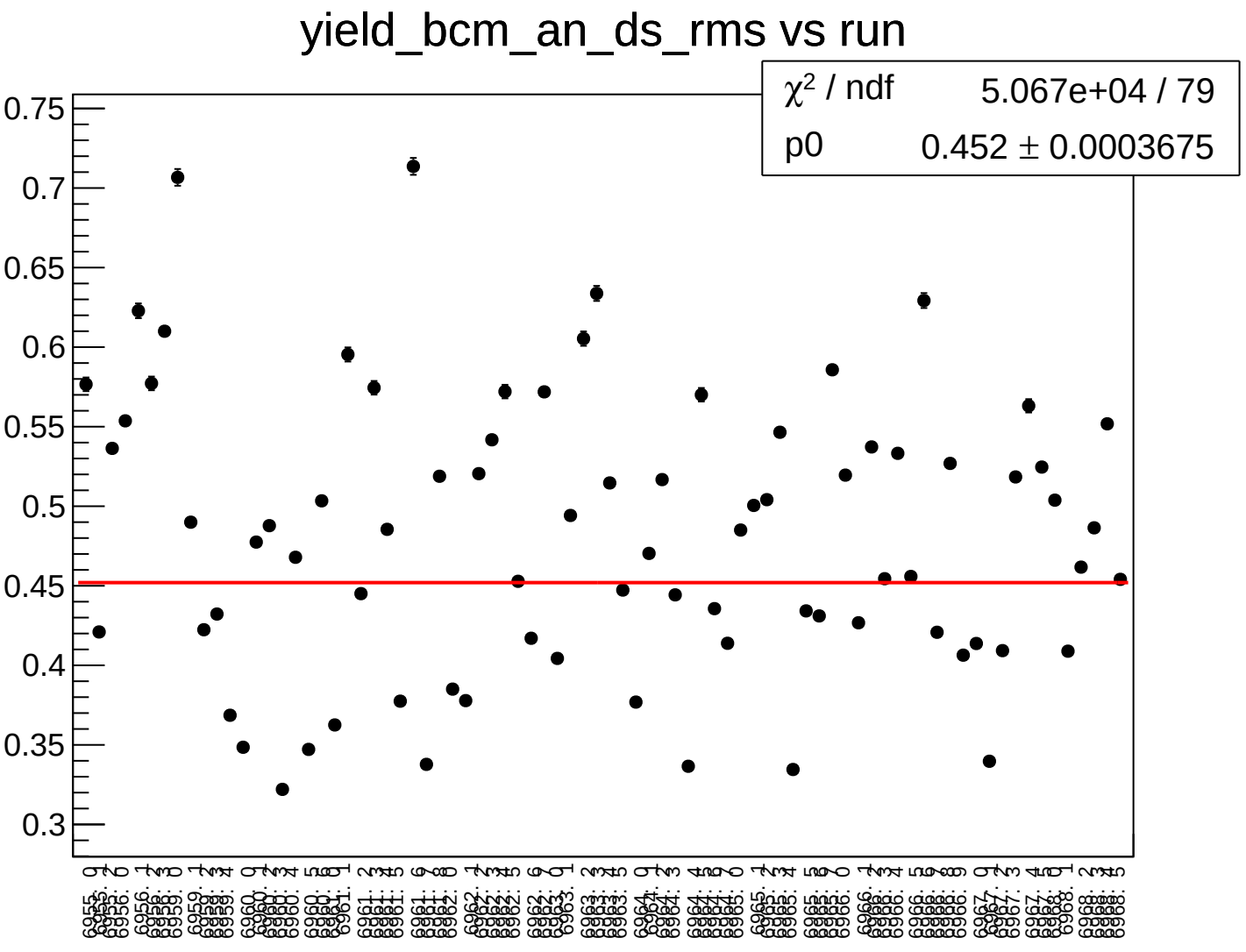

yield_atr2_mean vs run
χ² / ndf 6.75e+04 / 79
p0 0.02736 ± 4.633e−07
0.028
0.0278
0.0276
0.0274
0.0272
0.027
0.0268
0.0266
pull
Entries 80
Mean 4089
Std Dev 4047
60
40
20
0
−20
−40
−60
−80

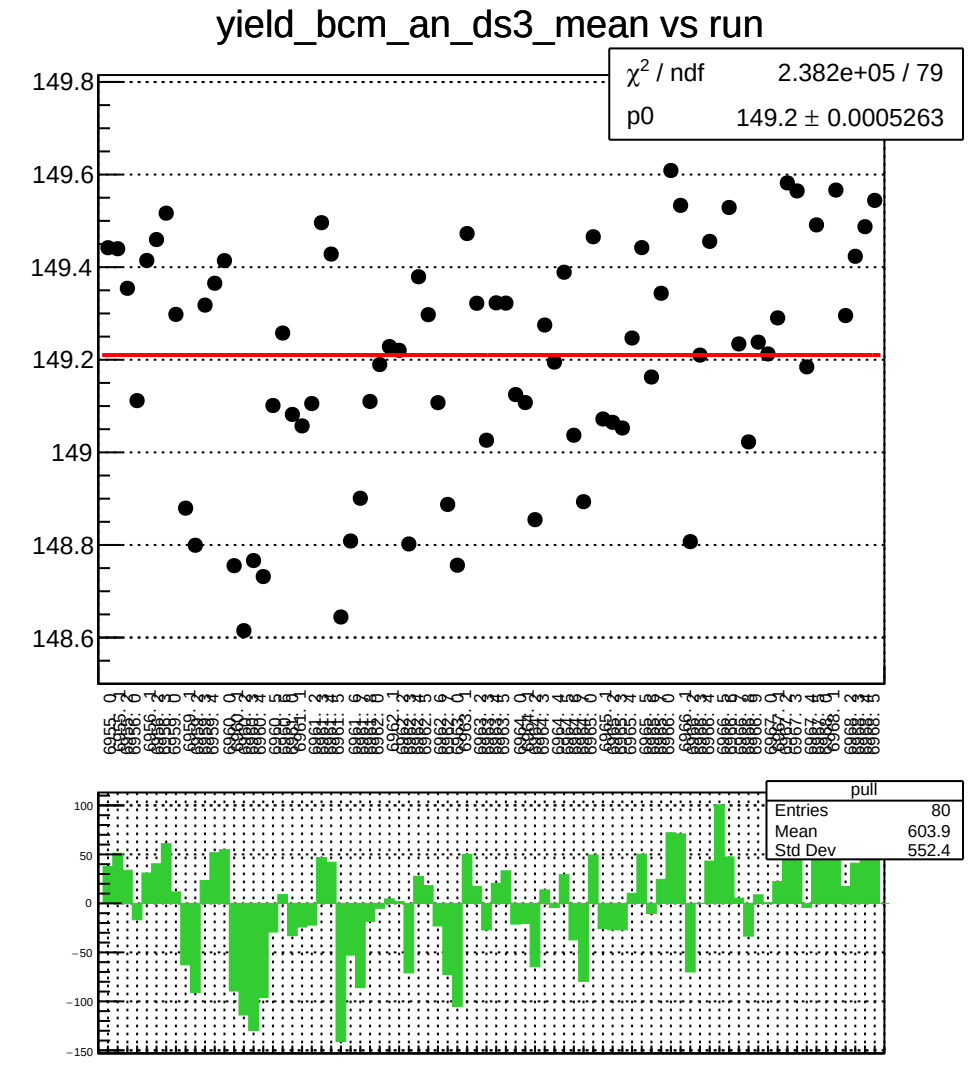

pull1D
Entries 80
Mean 2.323
Std Dev 4.107
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

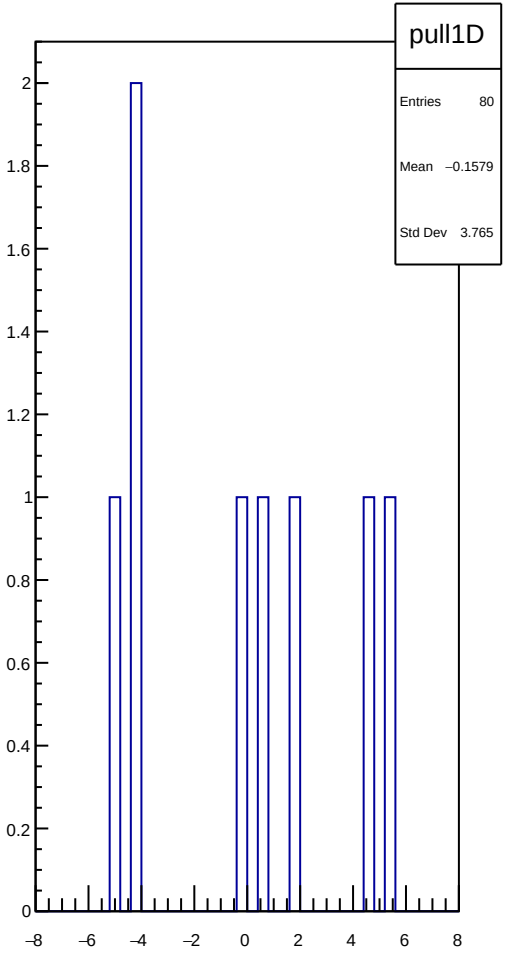

yield_atr2_rms vs run
χ² / ndf 2.038e+05 / 79
p0 0.0003819 ± 3.276e−07
0.001
0.0008
0.0006
0.0004
0.0002

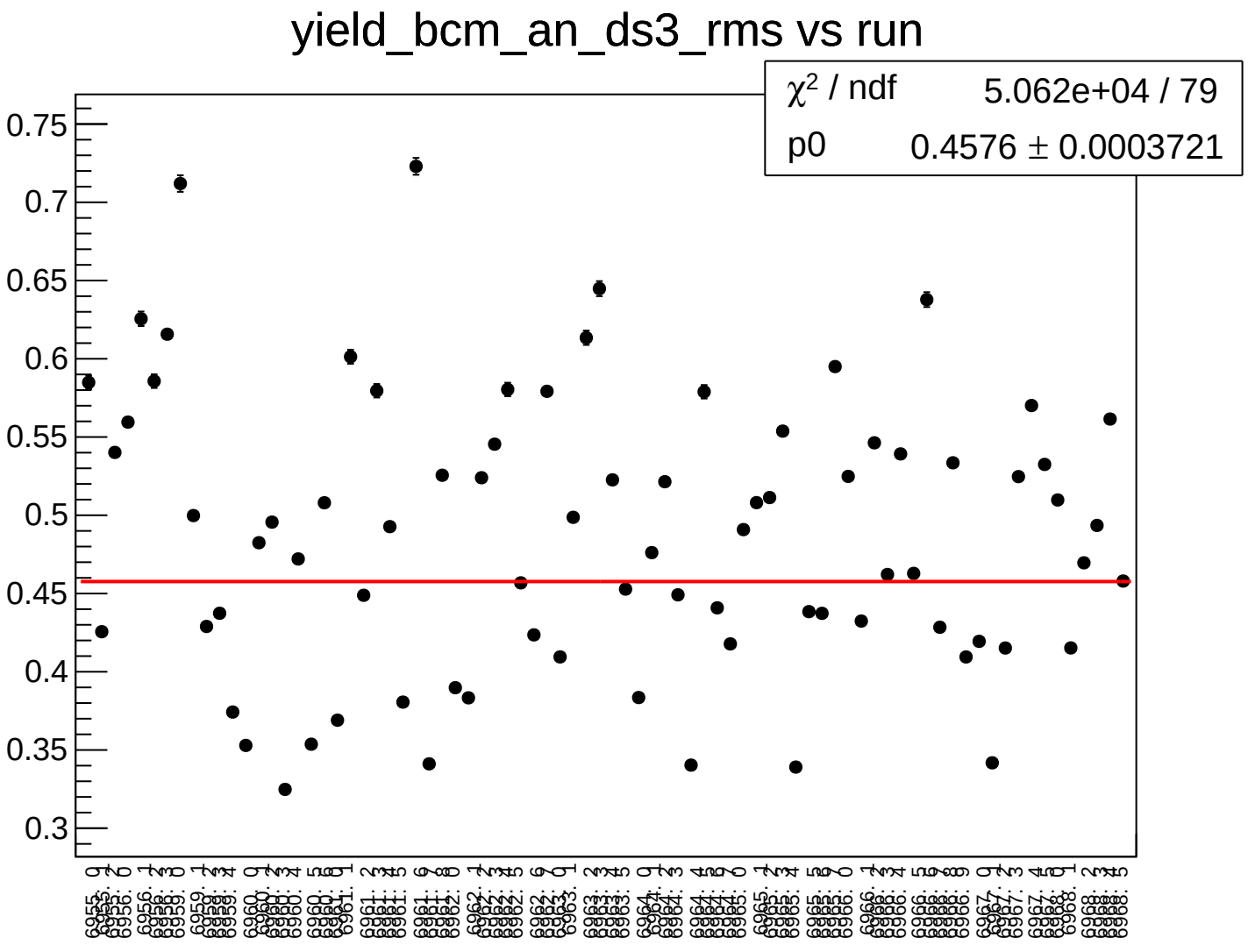

yield_bcm_an_ds_mean vs run
χ² / ndf 2.427e+05 / 79
p0 148.5 ± 0.0005198
149
148.8
148.6
148.4
148.2
148
147.8
pull
Entries 80
Mean 565
Std Dev 513.3
100
50
0
−50
−100
−150

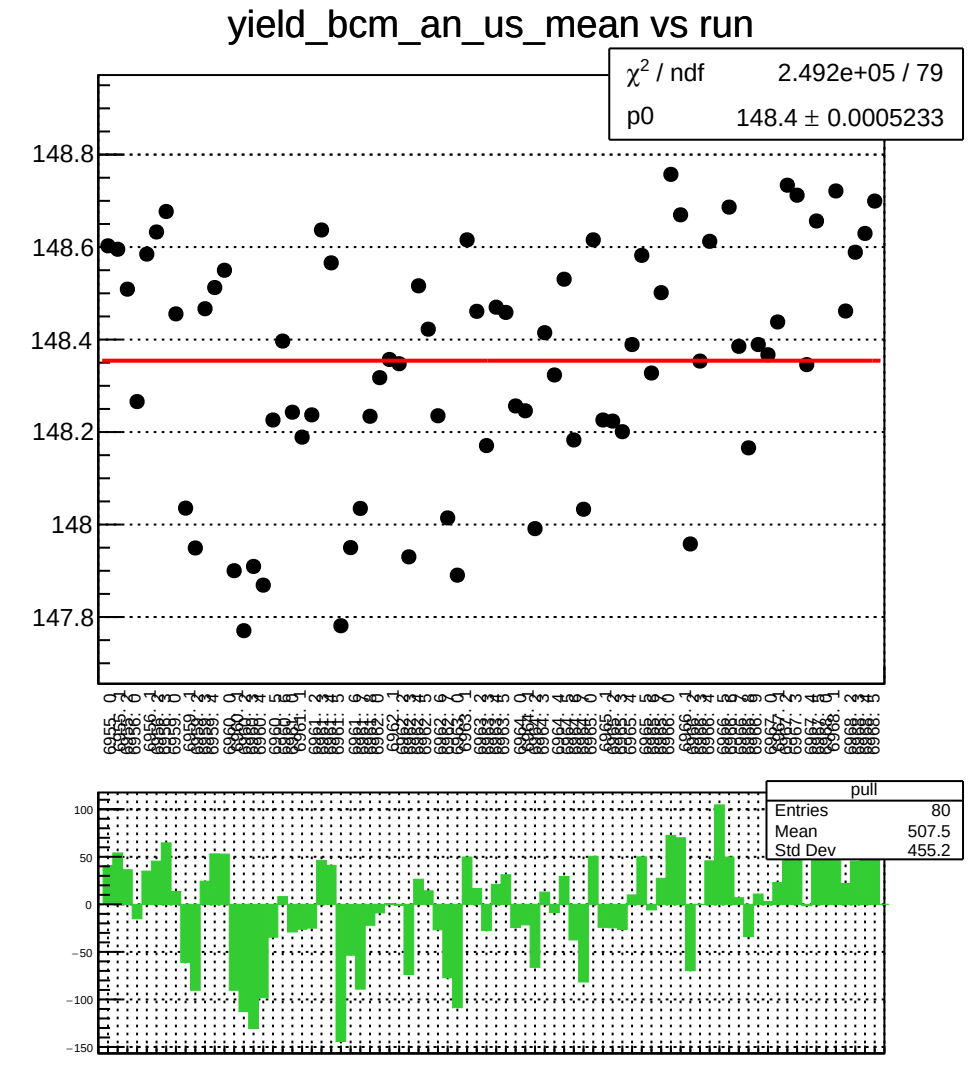

pull1D
Entries 80
Mean −1.529
Std Dev 4.181
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

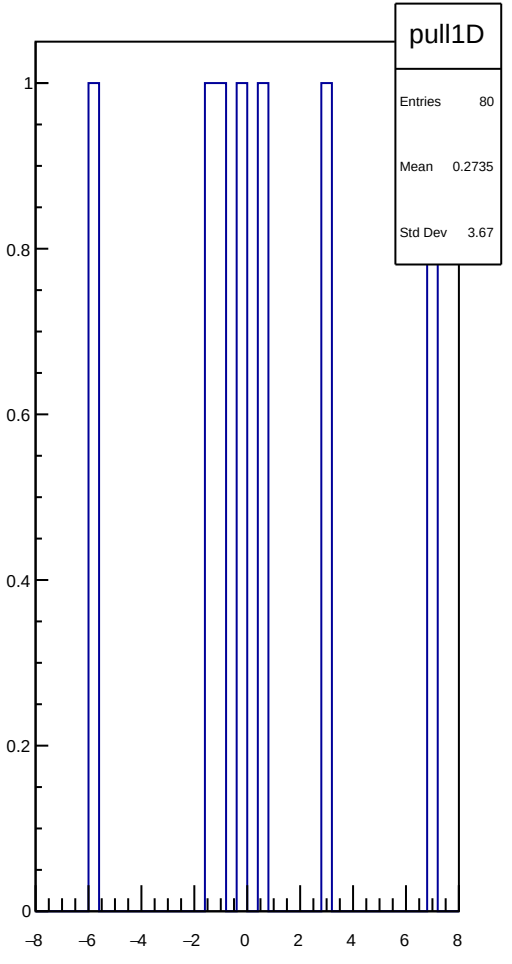

yield_bcm_an_ds_rms vs run
χ² / ndf 5.067e+04 / 79
p0 0.452 ± 0.0003675
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

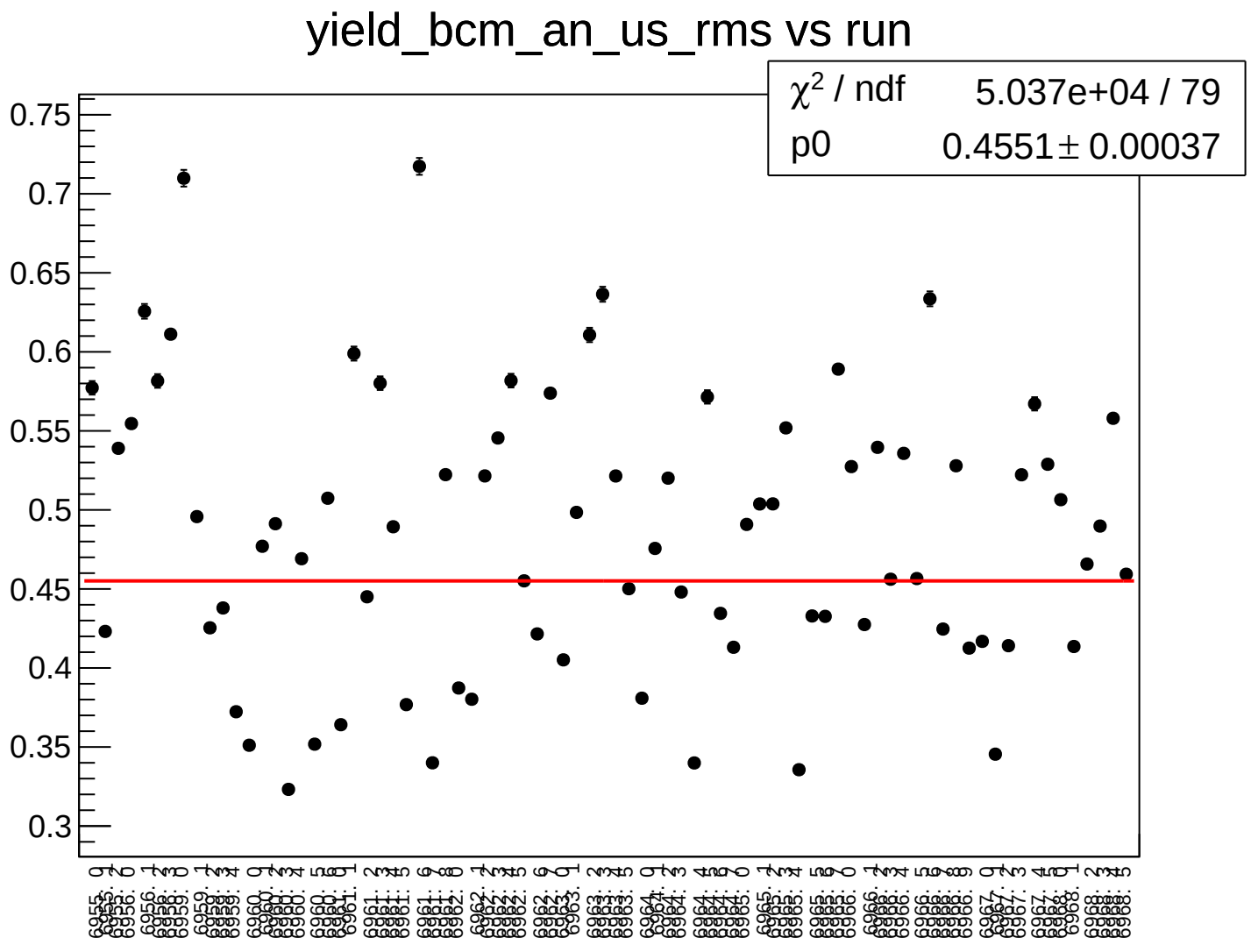

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.382e+05 / 79
p0 149.2 ± 0.0005263
149.8
149.6
149.4
149.2
149
148.8
148.6
pull
Entries 80
Mean 603.9
Std Dev 552.4
100
50
0
−50
−100
−150

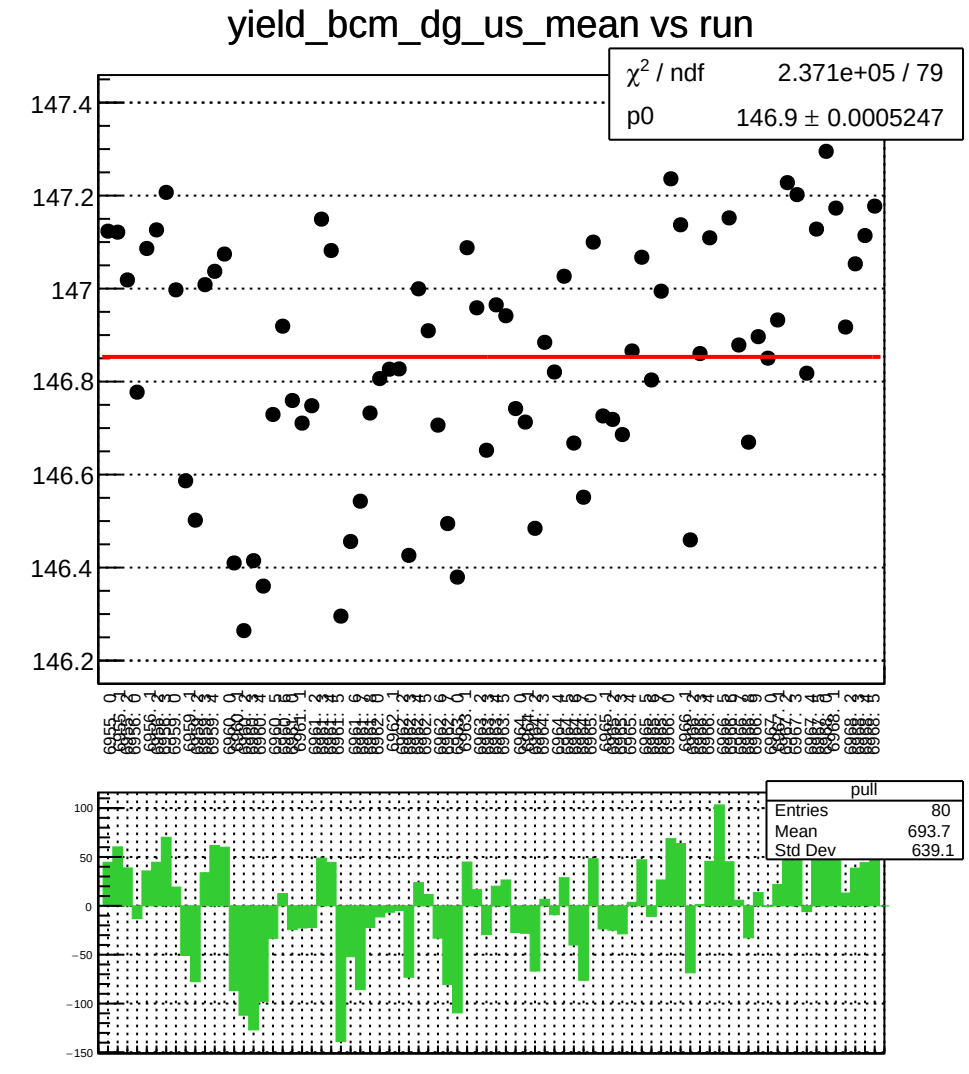

pull1D
Entries 80
Mean −0.1579
Std Dev 3.765
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

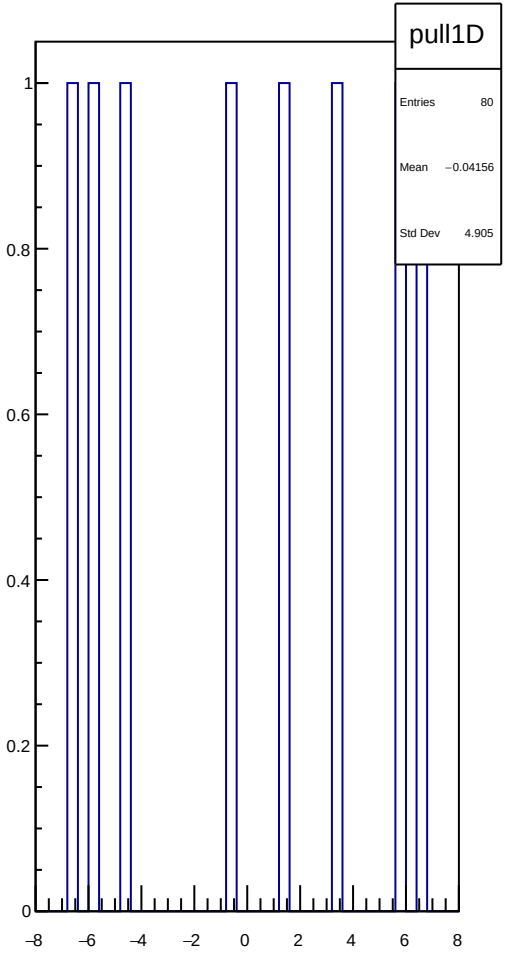

yield_bcm_an_ds3_rms vs run
χ² / ndf 5.062e+04 / 79
p0 0.4576 ± 0.0003721
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

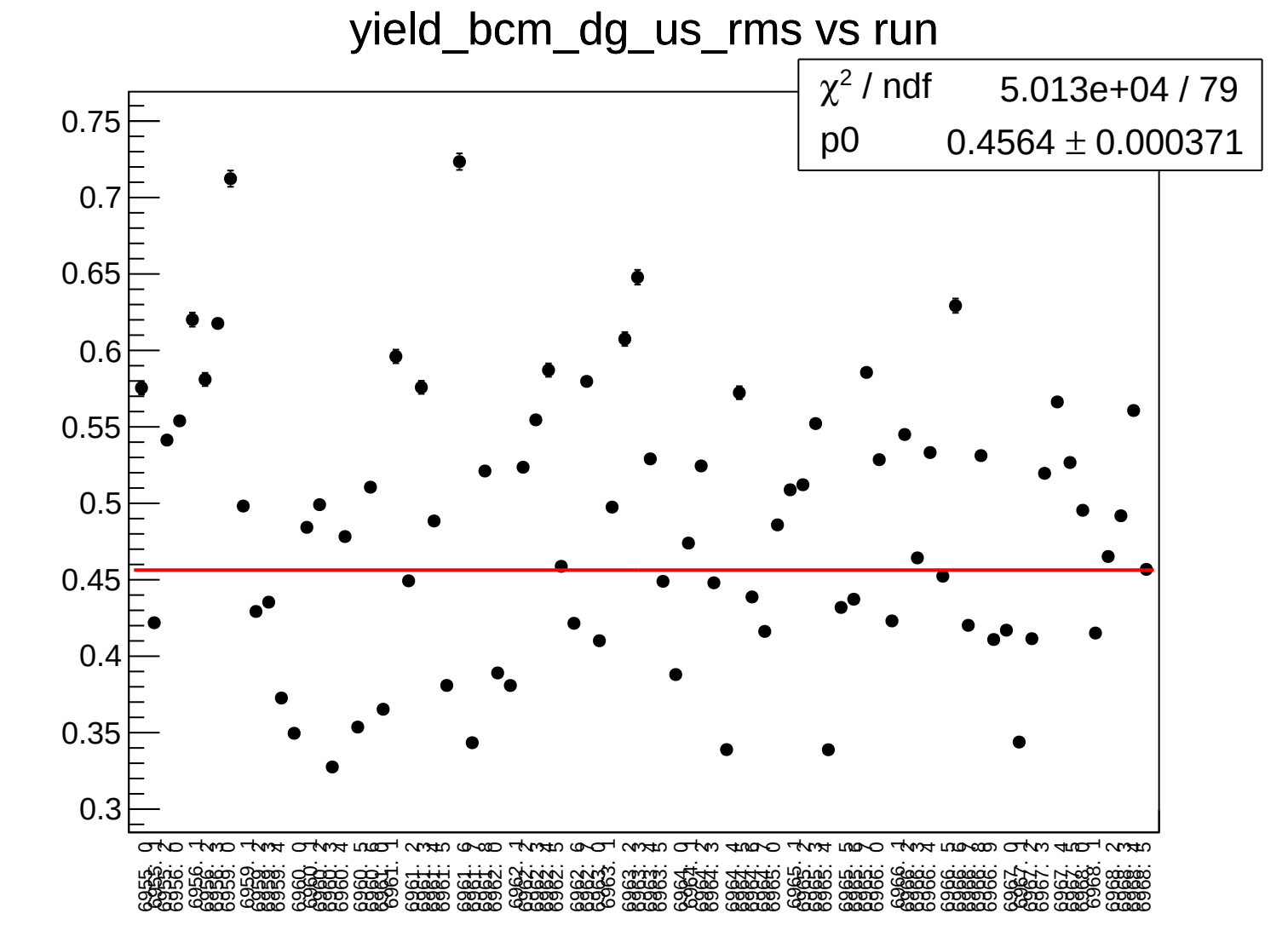

yield_bcm_an_us_mean vs run
χ² / ndf 2.492e+05 / 79
p0 148.4 ± 0.0005233
148.8
148.6
148.4
148.2
148
147.8
pull
Entries 80
Mean 507.5
Std Dev 455.2
100
50
0
−50
−100
−150

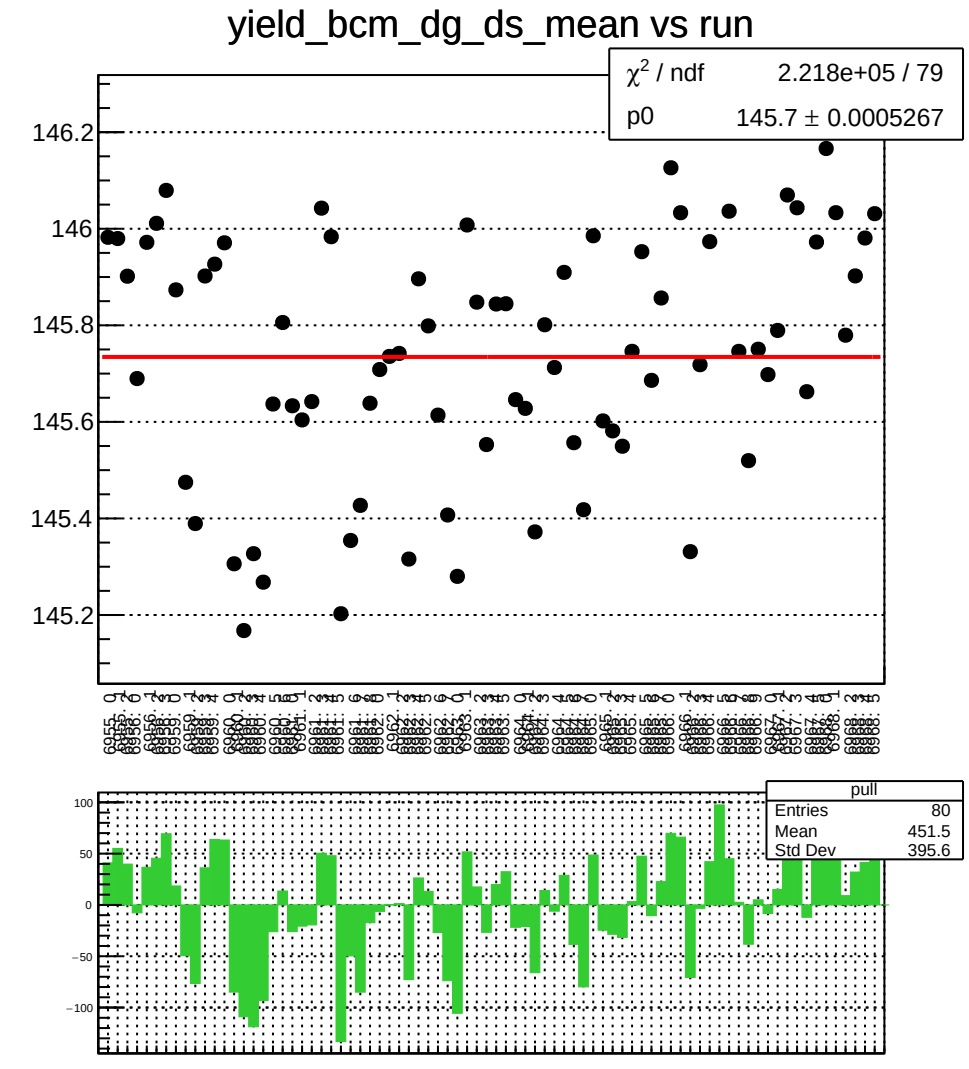

pull1D
Entries 80
Mean 0.2735
Std Dev 3.67
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

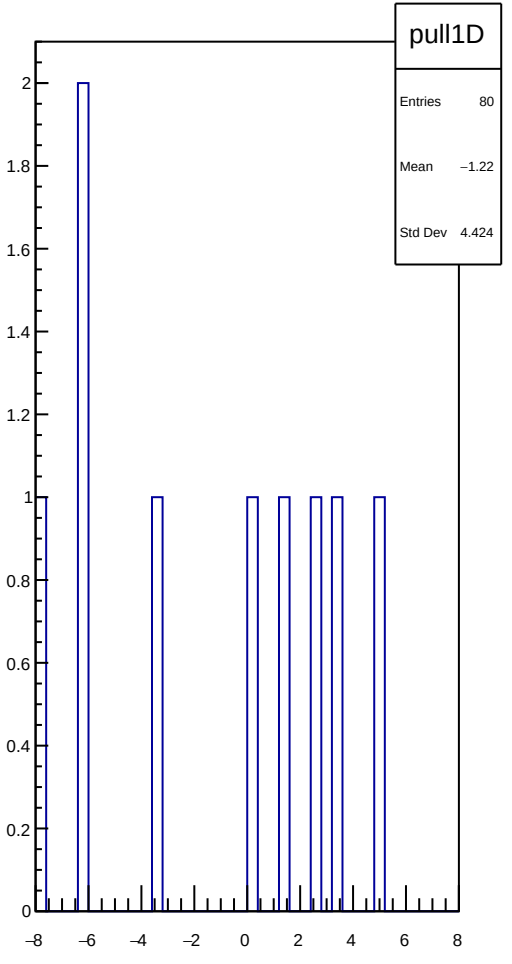

yield_bcm_an_us_rms vs run
χ² / ndf 5.037e+04 / 79
p0 0.4551 ± 0.00037
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

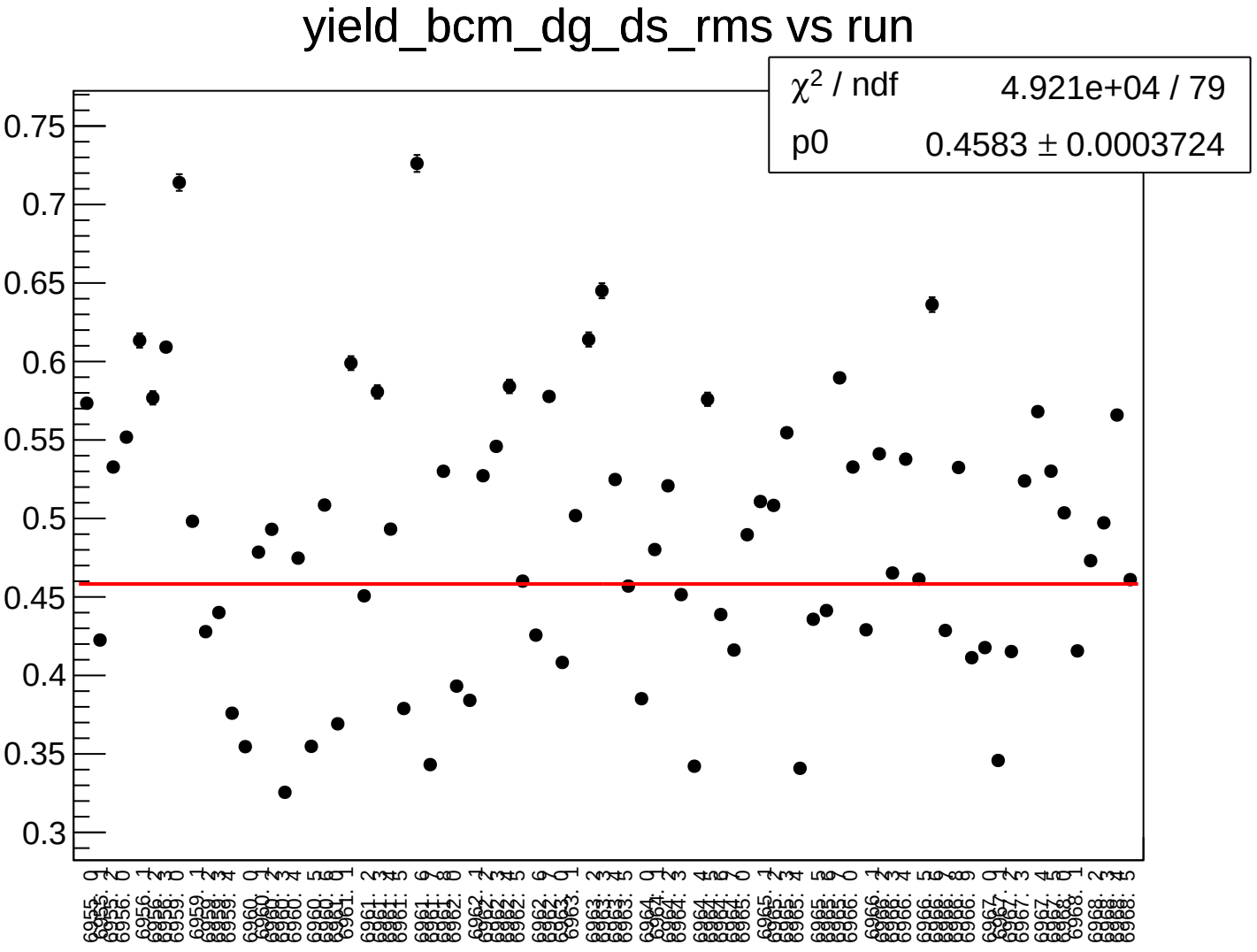

yield_bcm_dg_us_mean vs run
χ² / ndf 2.371e+05 / 79
p0 146.9 ± 0.0005247
147.4
147.2
147
146.8
146.6
146.4
146.2
pull
Entries 80
Mean 693.7
Std Dev 639.1
100
50
0
−50
−100
−150

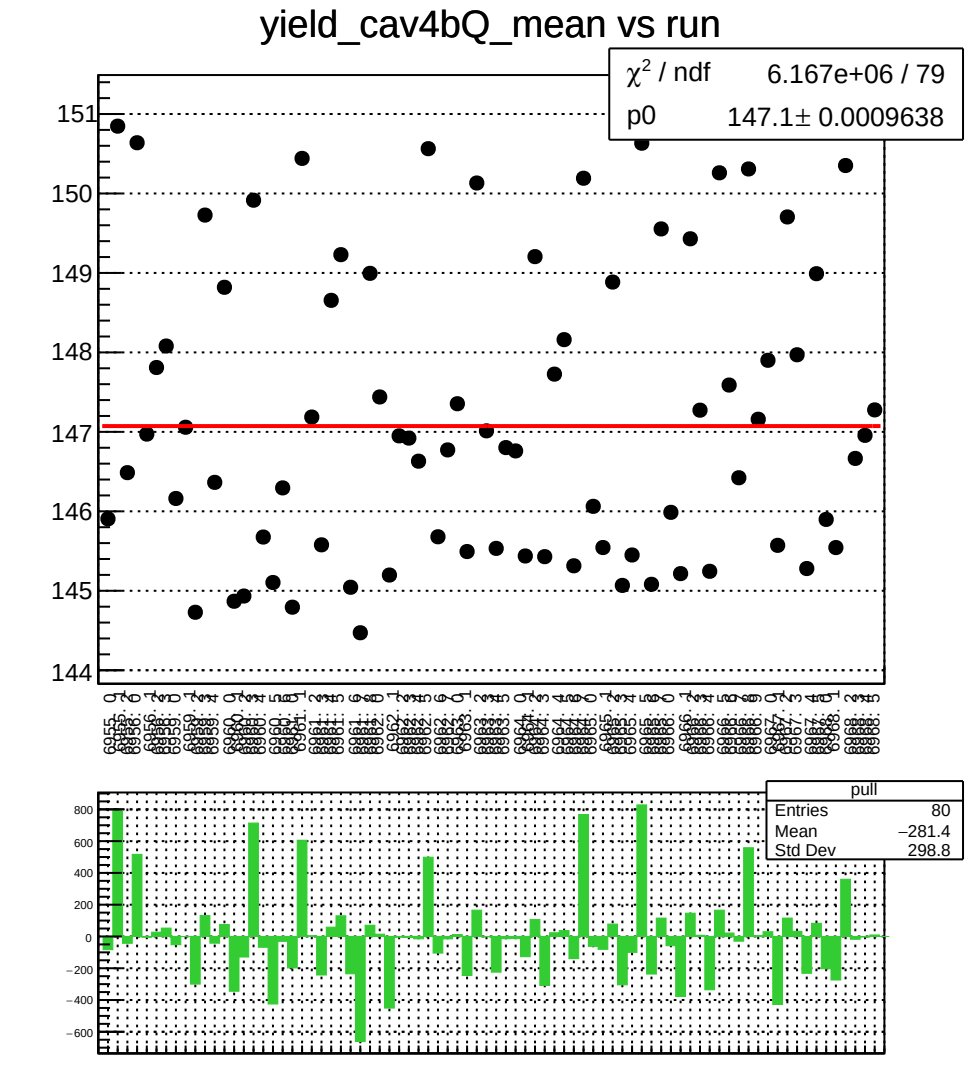

pull1D
Entries 80
Mean −0.04156
Std Dev 4.905
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

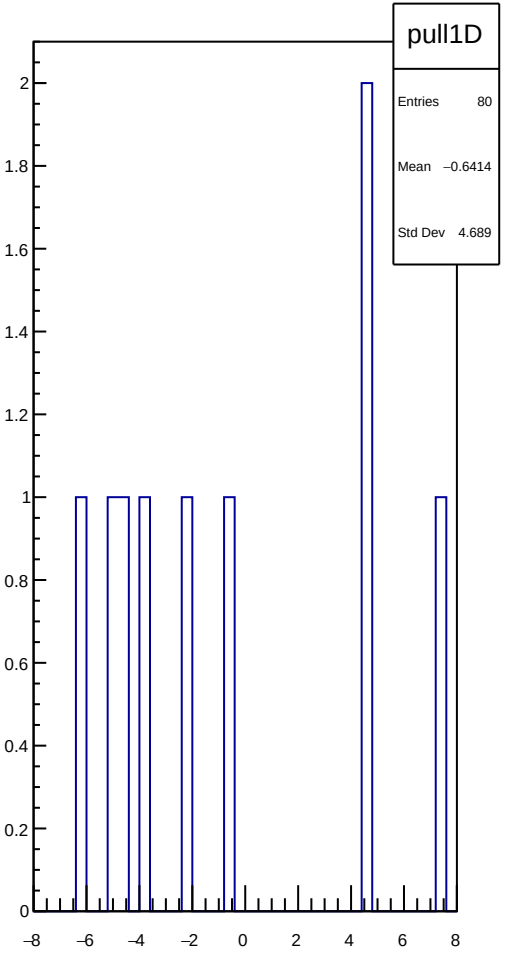

yield_bcm_dg_us_rms vs run
χ² / ndf 5.013e+04 / 79
p0 0.4564 ± 0.000371
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

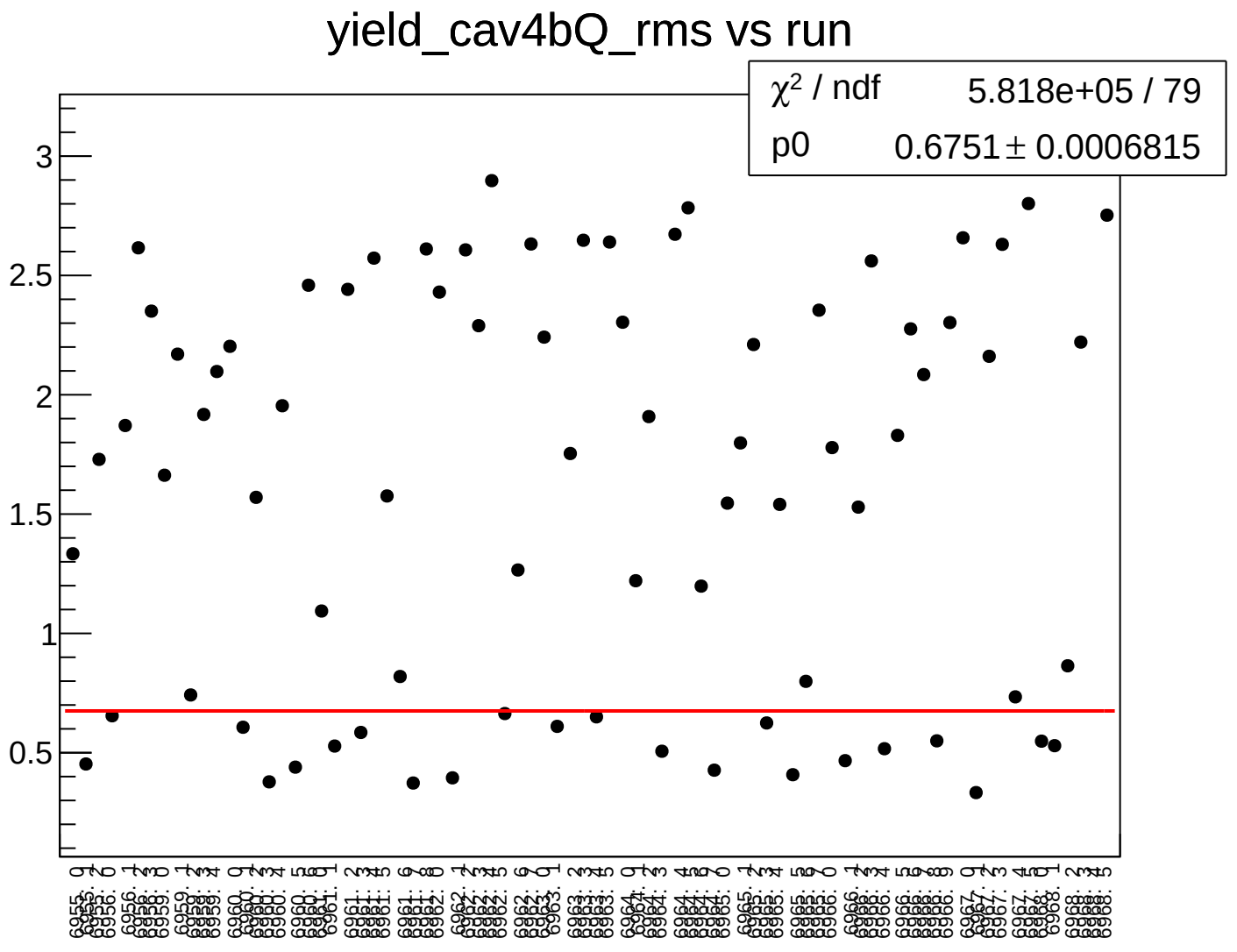

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.218e+05 / 79
p0 145.7 ± 0.0005267
146.2
146
145.8
145.6
145.4
145.2
pull
Entries 80
Mean 451.5
Std Dev 395.6
100
50
0
−50
−100

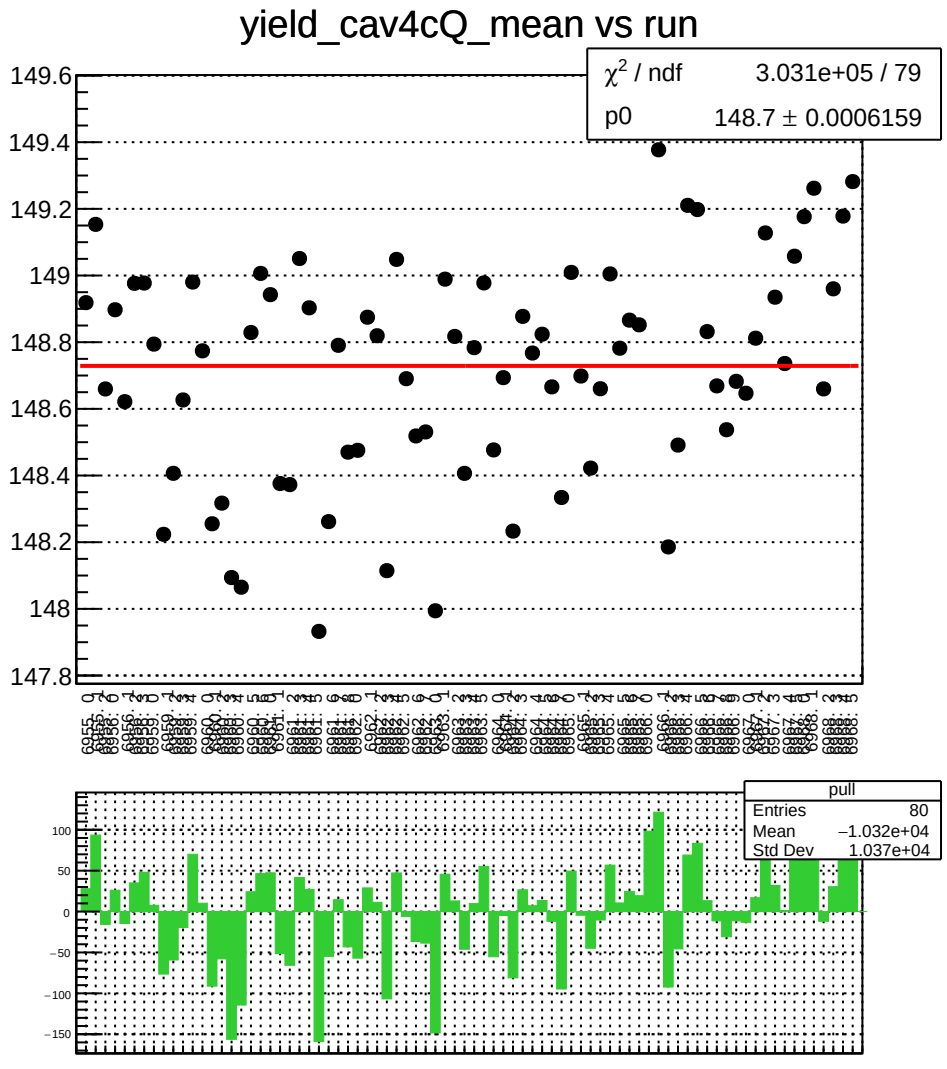

pull1D
Entries 80
Mean −1.22
Std Dev 4.424
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

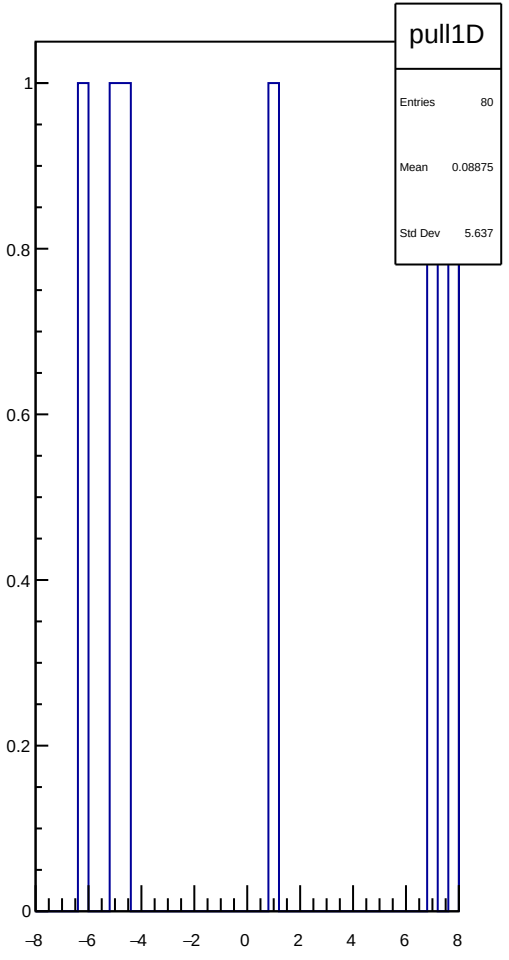

yield_bcm_dg_ds_rms vs run
χ² / ndf 4.921e+04 / 79
p0 0.4583 ± 0.0003724
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

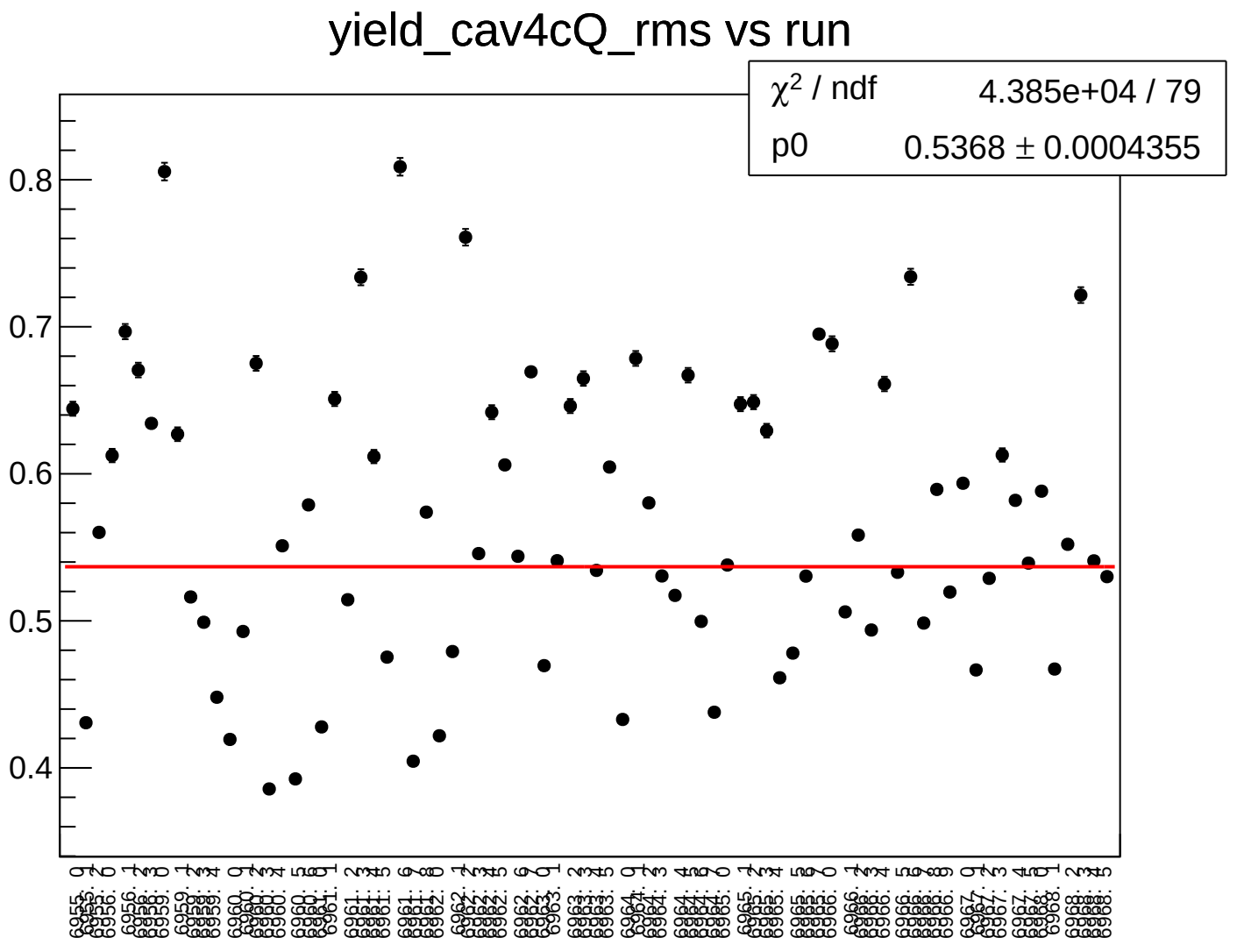

yield_cav4bQ_mean vs run
χ² / ndf 6.167e+06 / 79
p0 147.1± 0.0009638
pull
Entries 80
Mean −281.4
Std Dev 298.8

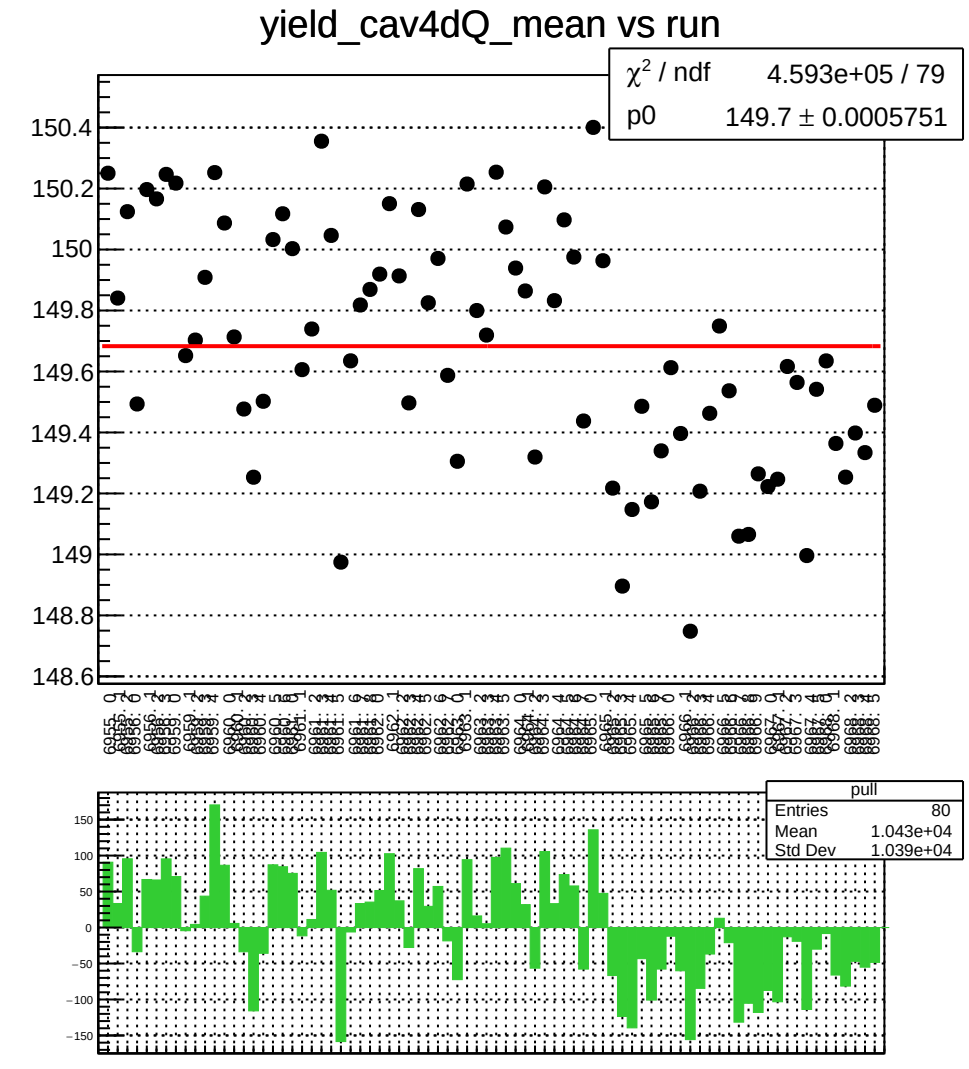

pull1D
Entries 80
Mean −0.6414
Std Dev 4.689

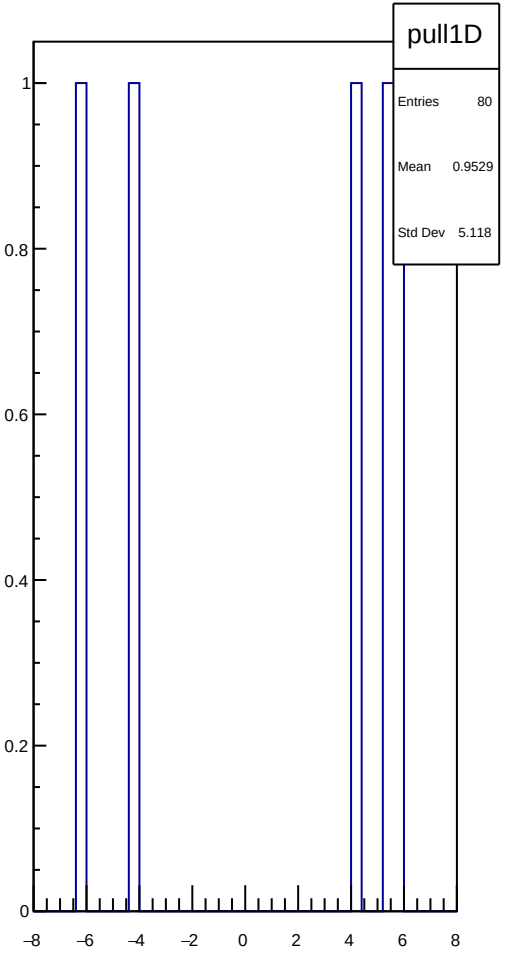

yield_cav4bQ_rms vs run
χ² / ndf 5.818e+05 / 79
p0 0.6751 ± 0.0006815
3
2.5
2
1.5
1
0.5

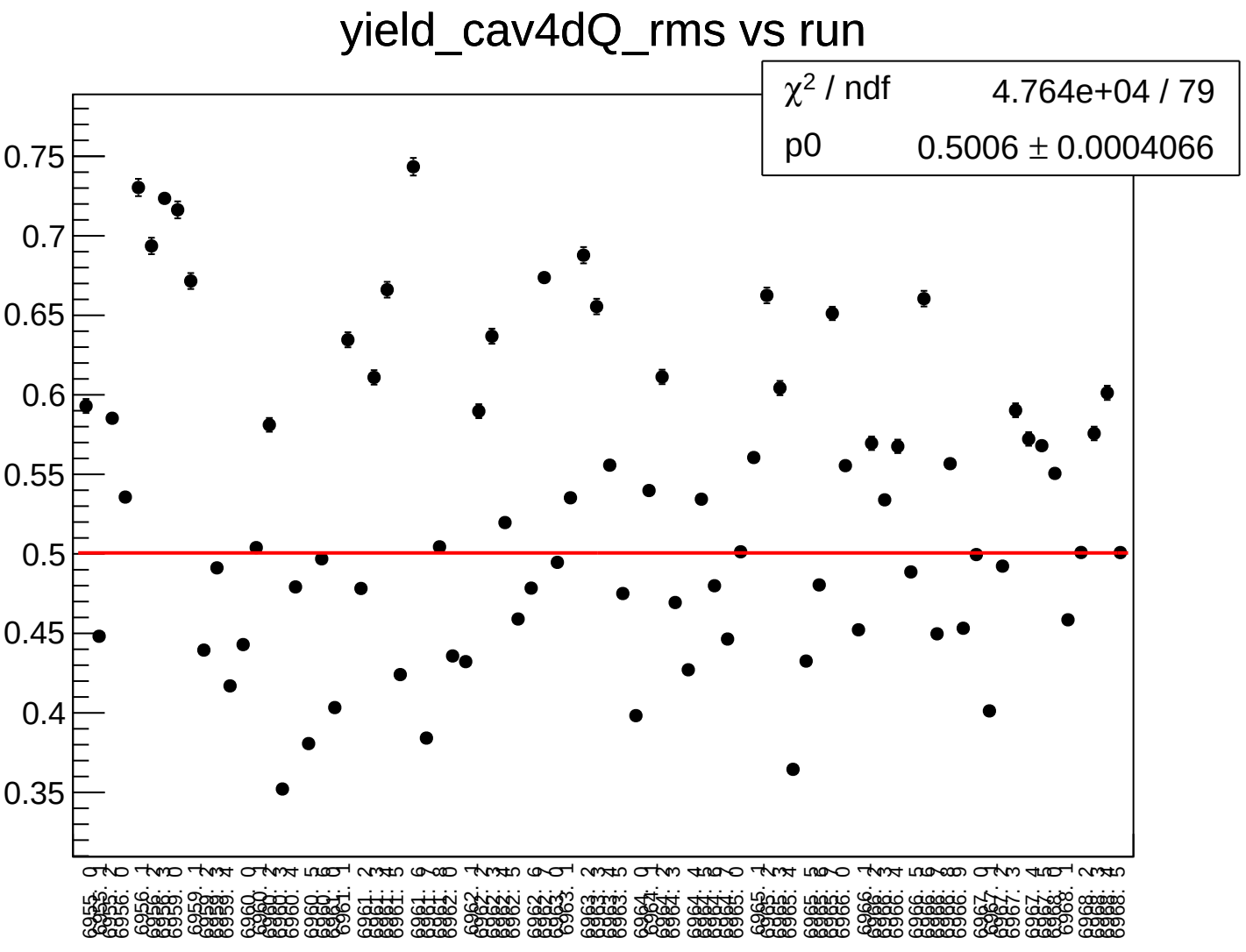

yield_cav4cQ_mean vs run
χ² / ndf 3.031e+05 / 79
p0 148.7 ± 0.0006159
149.6
149.4
149.2
149
148.8
148.6
148.4
148.2
148
147.8
pull
Entries 80
Mean −1.032e+04
Std Dev 1.037e+04
100
50
0
−50
−100
−150

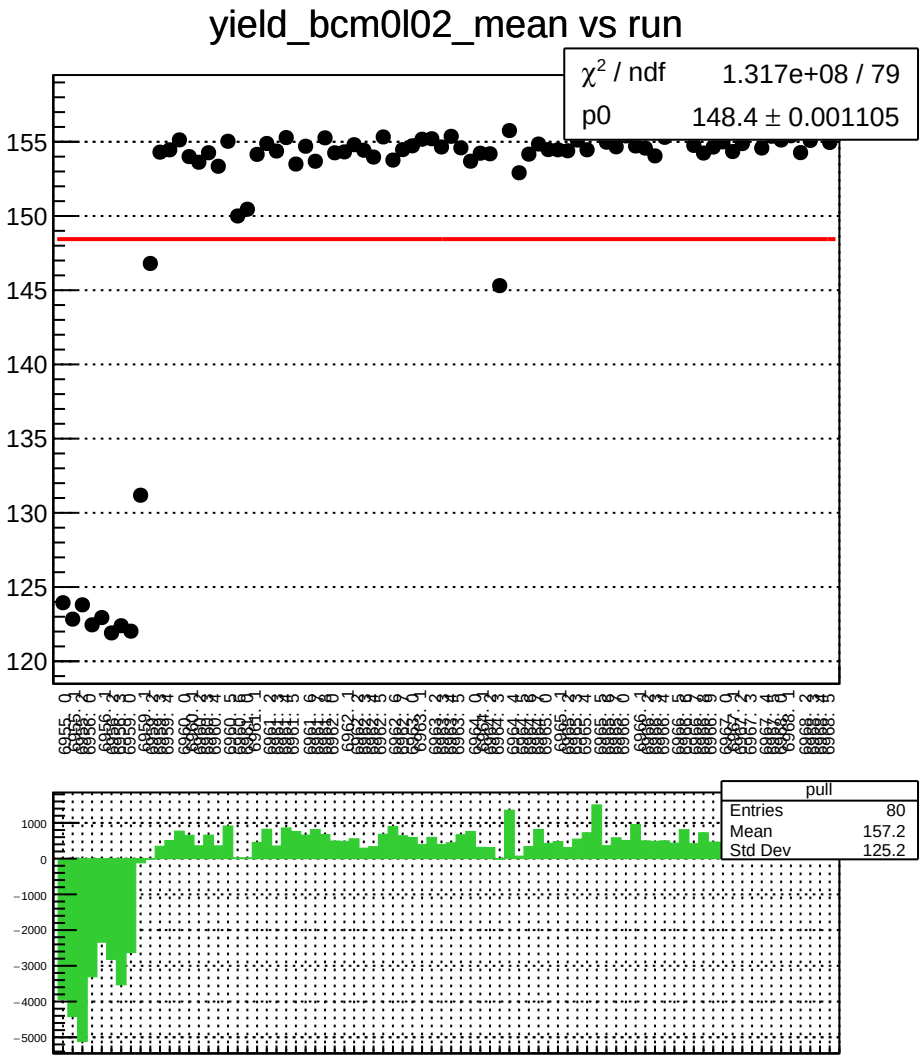

pull1D
Entries 80
Mean 0.08875
Std Dev 5.637
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

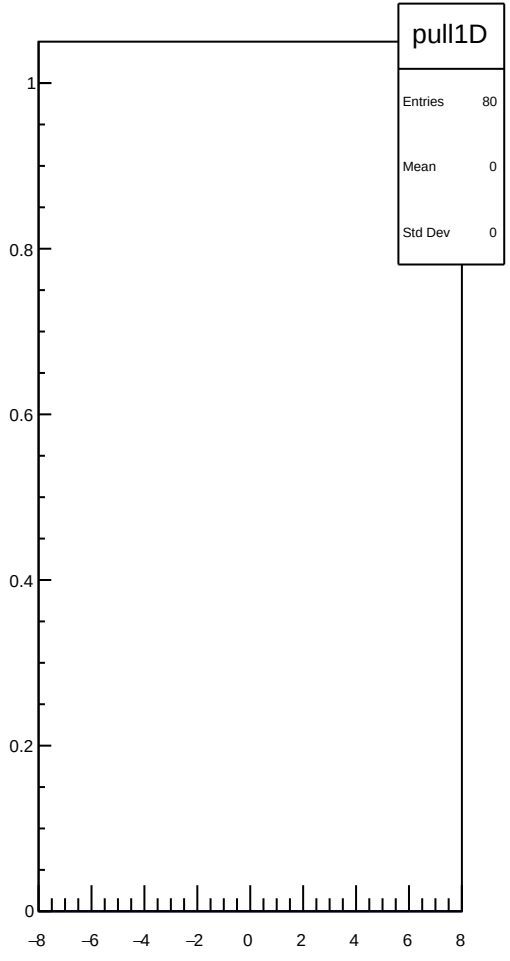

yield_cav4cQ_rms vs run
χ2 / ndf 4.385e+04 / 79
p0 0.5368 ± 0.0004355
0.8
0.7
0.6
0.5
0.4

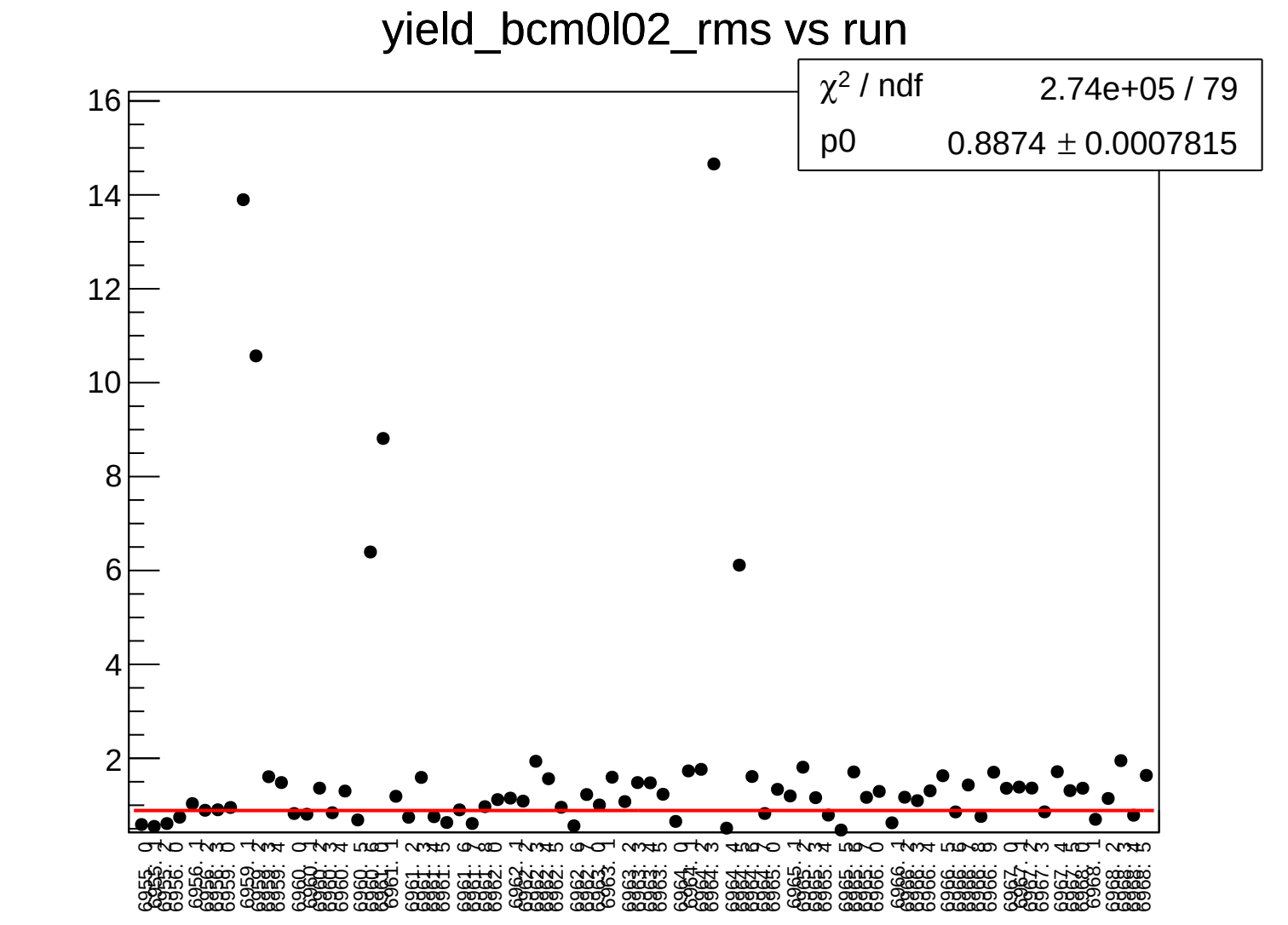

yield_cav4dQ_mean vs run
χ² / ndf 4.593e+05 / 79
p0 149.7 ± 0.0005751
150.4
150.2
150
149.8
149.6
149.4
149.2
149
148.8
148.6
pull
Entries 80
Mean 1.043e+04
Std Dev 1.039e+04
150
100
50
0
−50
−100
−150

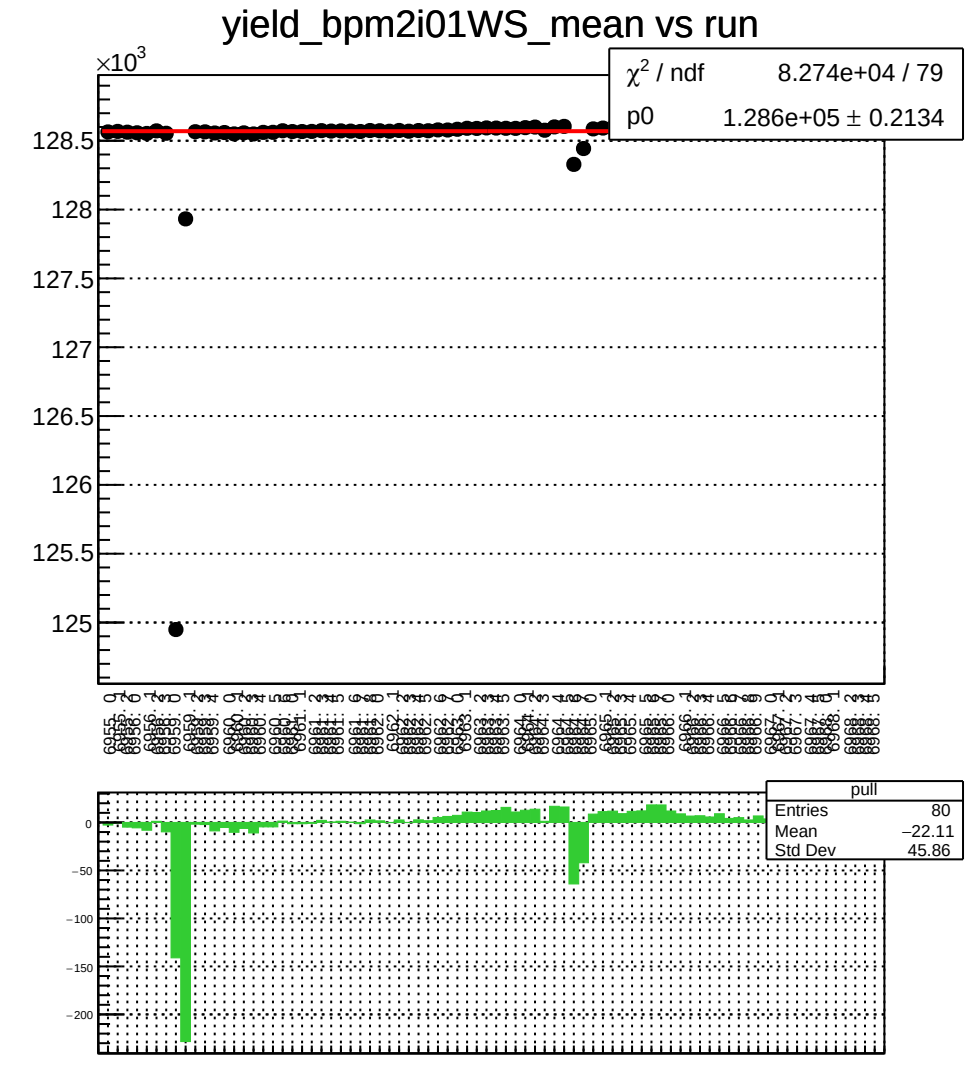

pull1D
Entries 80
Mean 0.9529
Std Dev 5.118
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

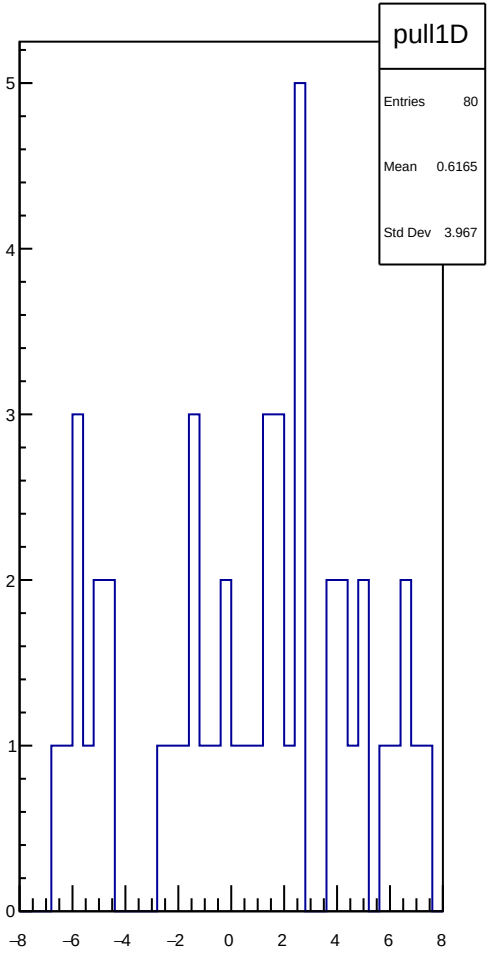

yield_cav4dQ_rms vs run
χ² / ndf 4.764e+04 / 79
p0 0.5006 ± 0.0004066
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35

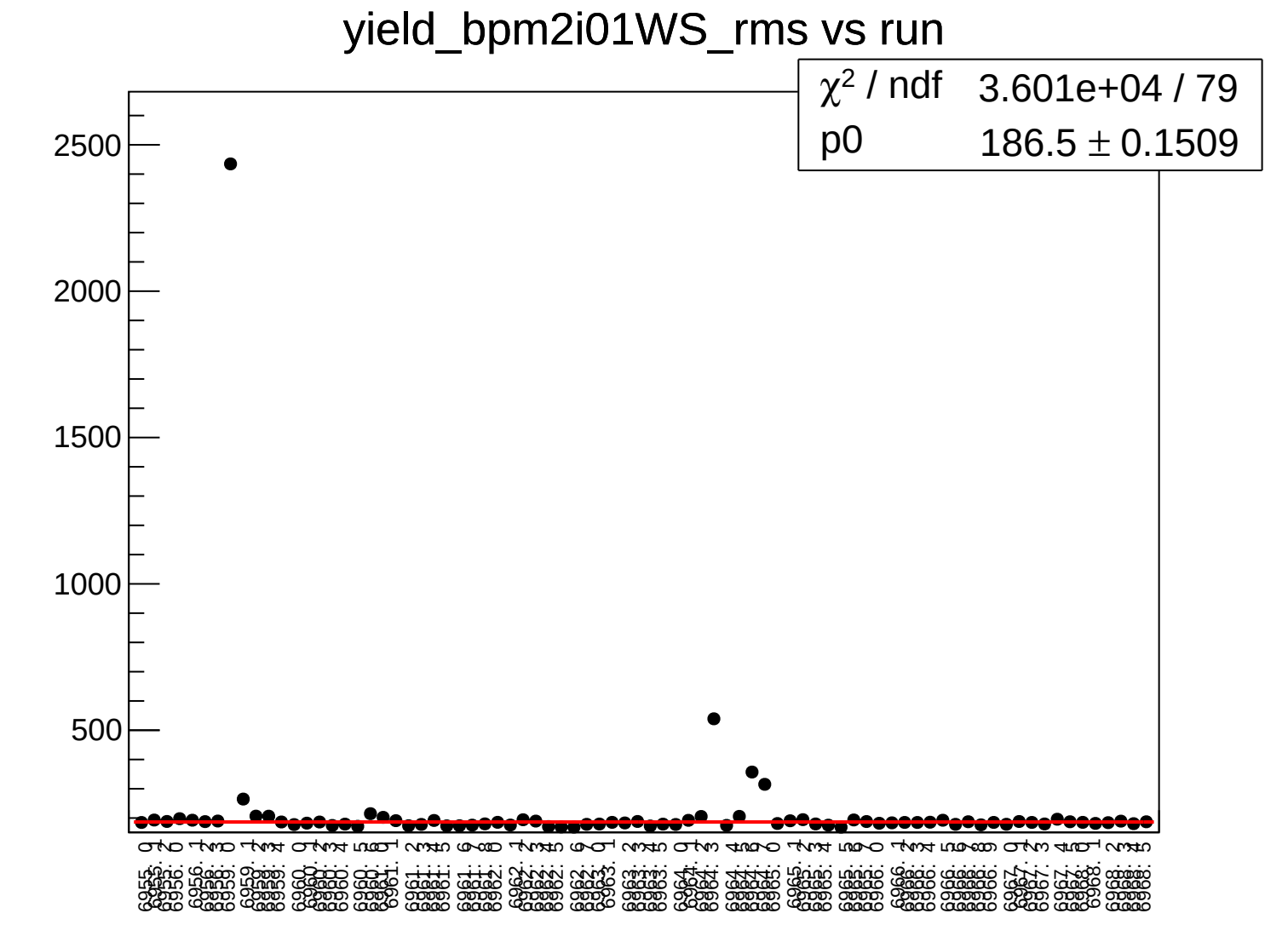

yield_bcm0l02_mean vs run
χ² / ndf 1.317e+08 / 79
p0 148.4 ± 0.001105
155
150
145
140
135
130
125
120
pull
Entries 80
Mean 157.2
Std Dev 125.2
1000
0
−1000
−2000
−3000
−4000
−5000

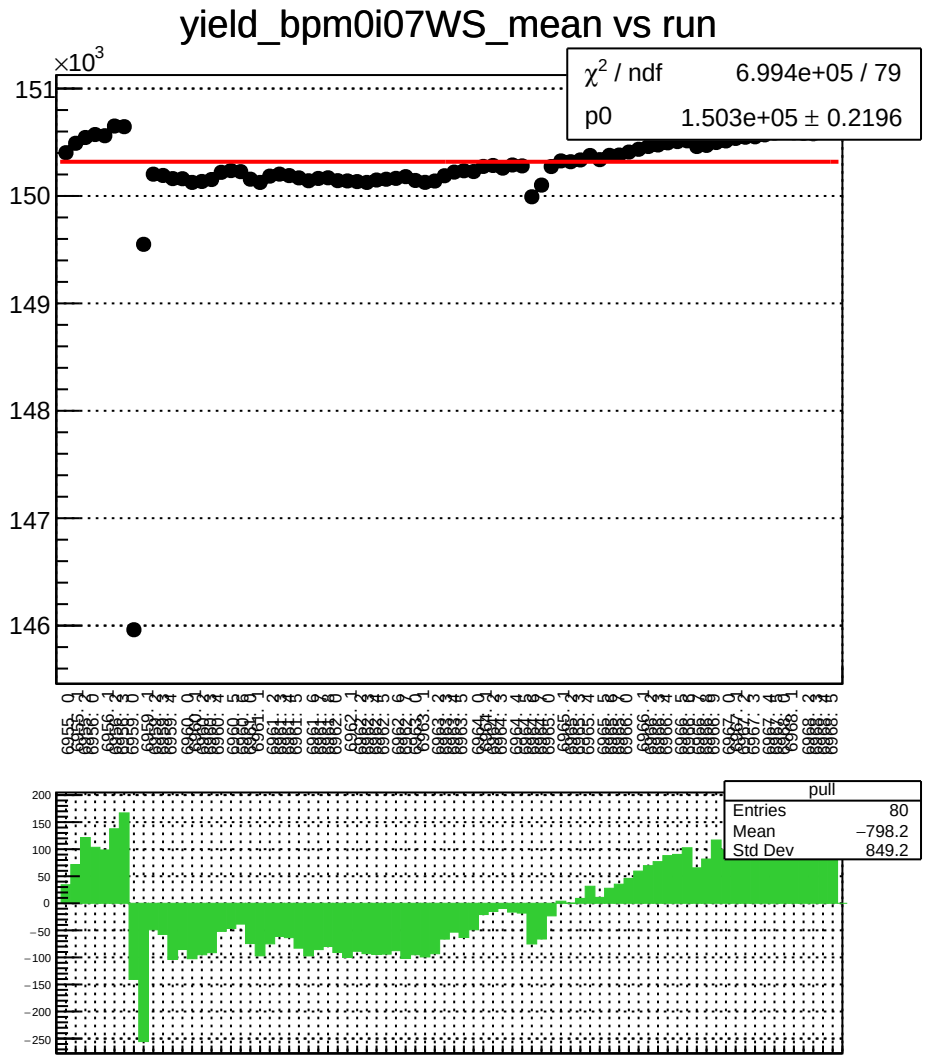

pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

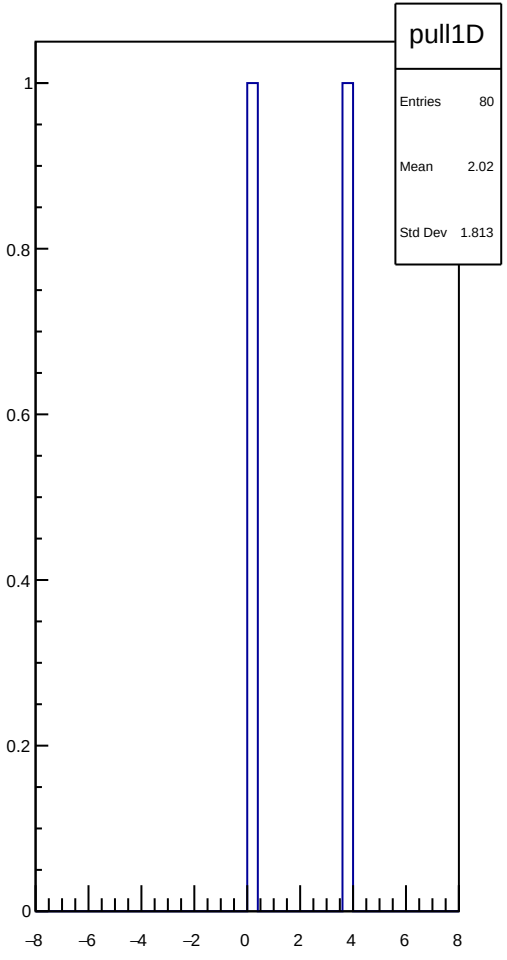

yield_bcm0l02_rms vs run
χ² / ndf 2.74e+05 / 79
p0 0.8874 ± 0.0007815
16
14
12
10
8
6
4
2

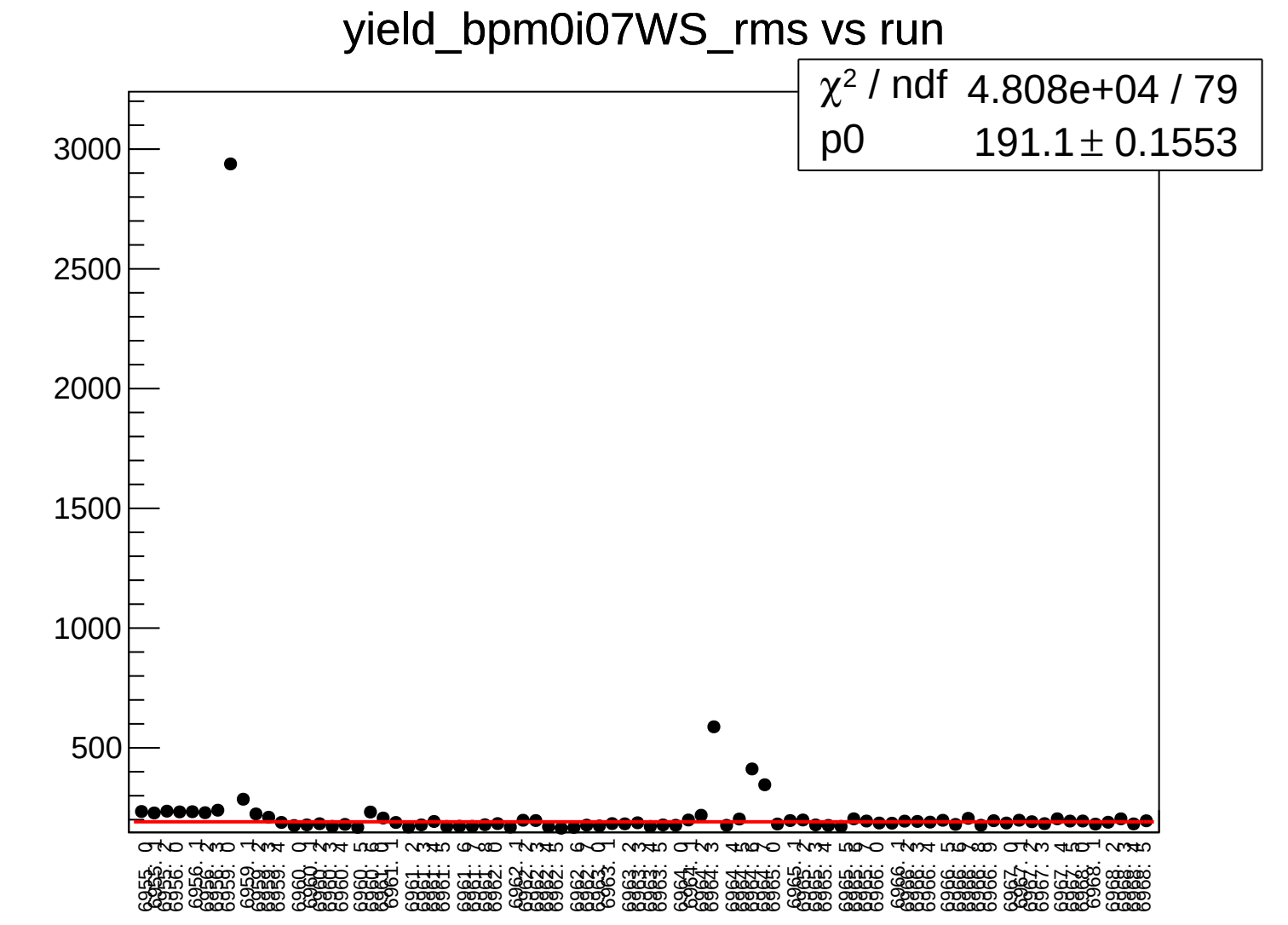

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 8.274e+04 / 79
p0 1.286e+05 ± 0.2134
128.5
128
127.5
127
126.5
126
125.5
125
pull
Entries 80
Mean −22.11
Std Dev 45.86
0
−50
−100
−150
−200

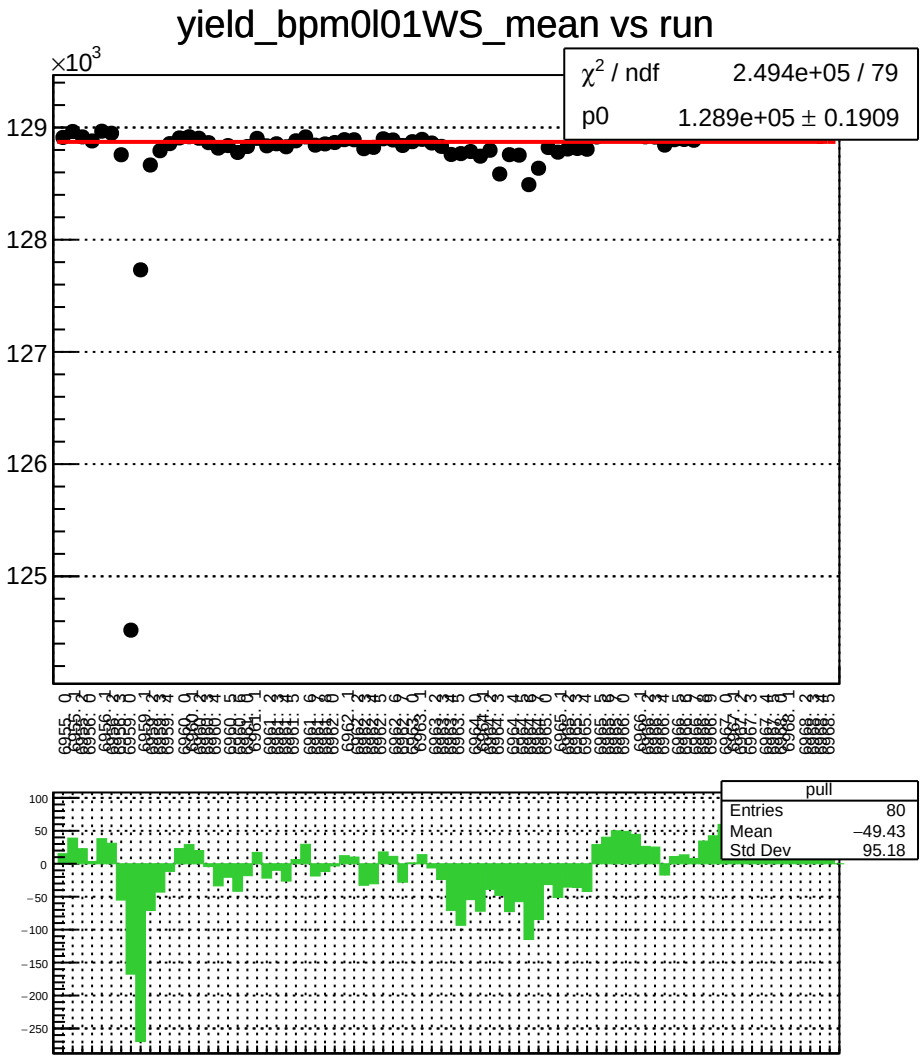

pull1D
Entries 80
Mean 0.6165
Std Dev 3.967
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

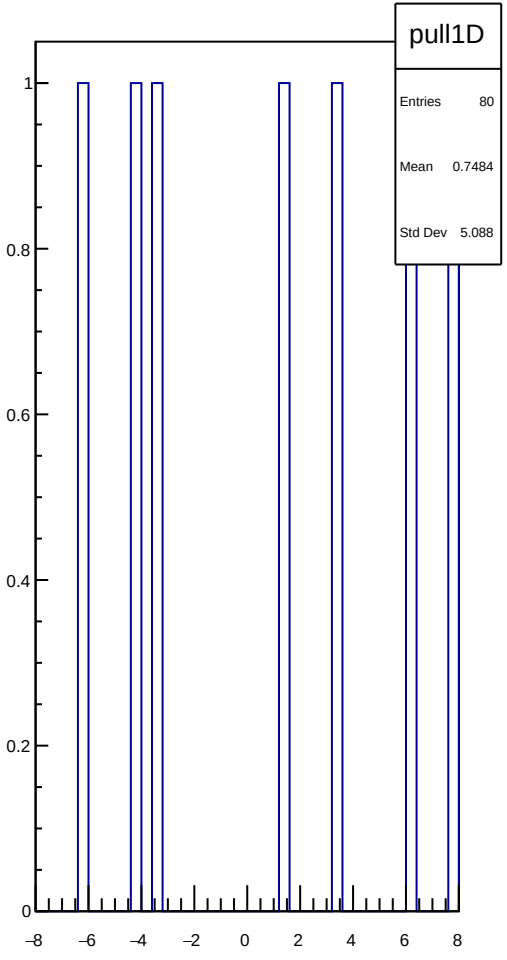

yield_bpm2i01WS_rms vs run
χ² / ndf 3.601e+04 / 79
p0 186.5 ± 0.1509
2500
2000
1500
1000
500

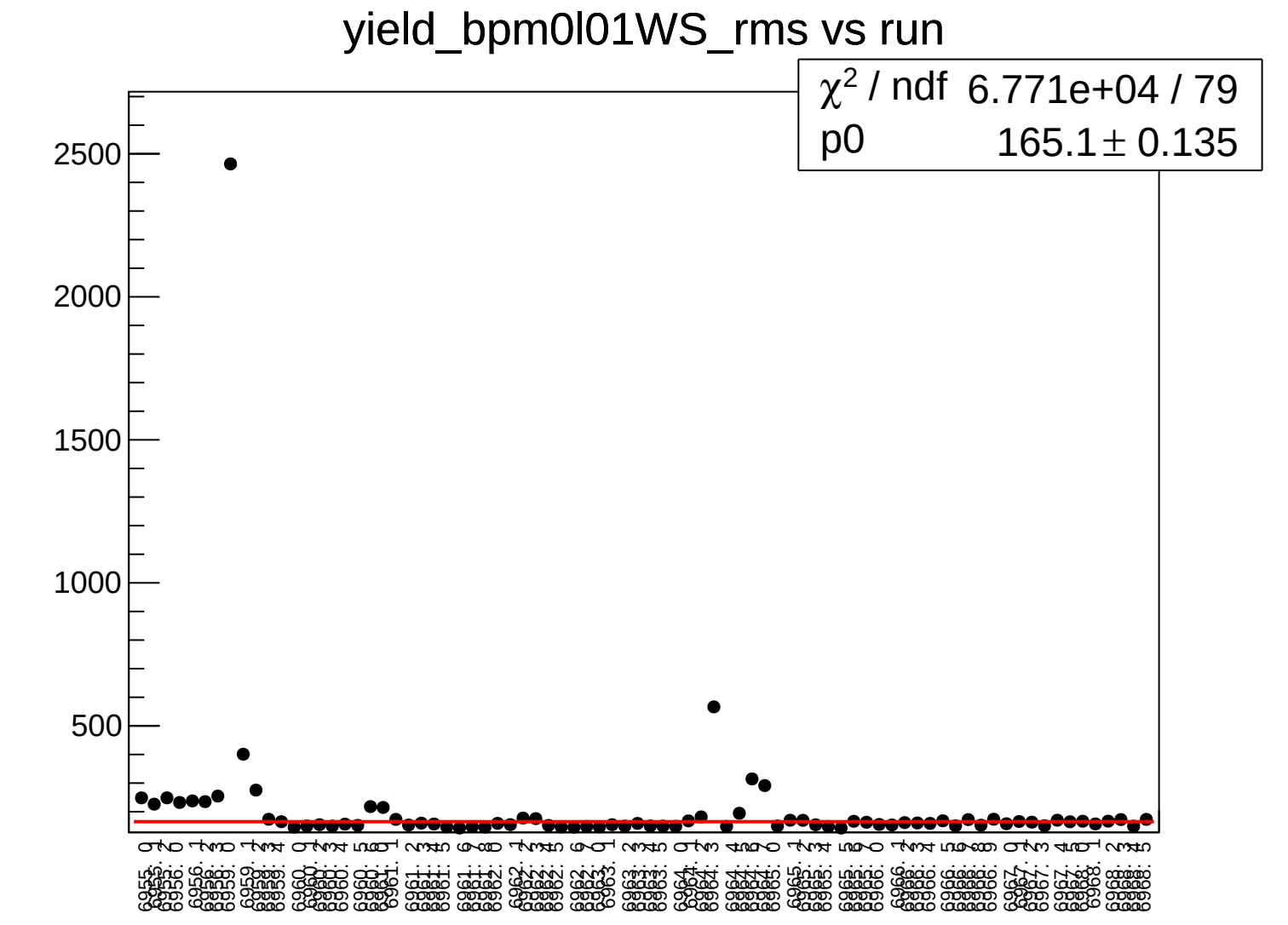

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 6.994e+05 / 79
p0 1.503e+05 ± 0.2196
151
150
149
148
147
146
pull
Entries 80
Mean −798.2
Std Dev 849.2
200
150
100
50
0
−50
−100
−150
−200
−250

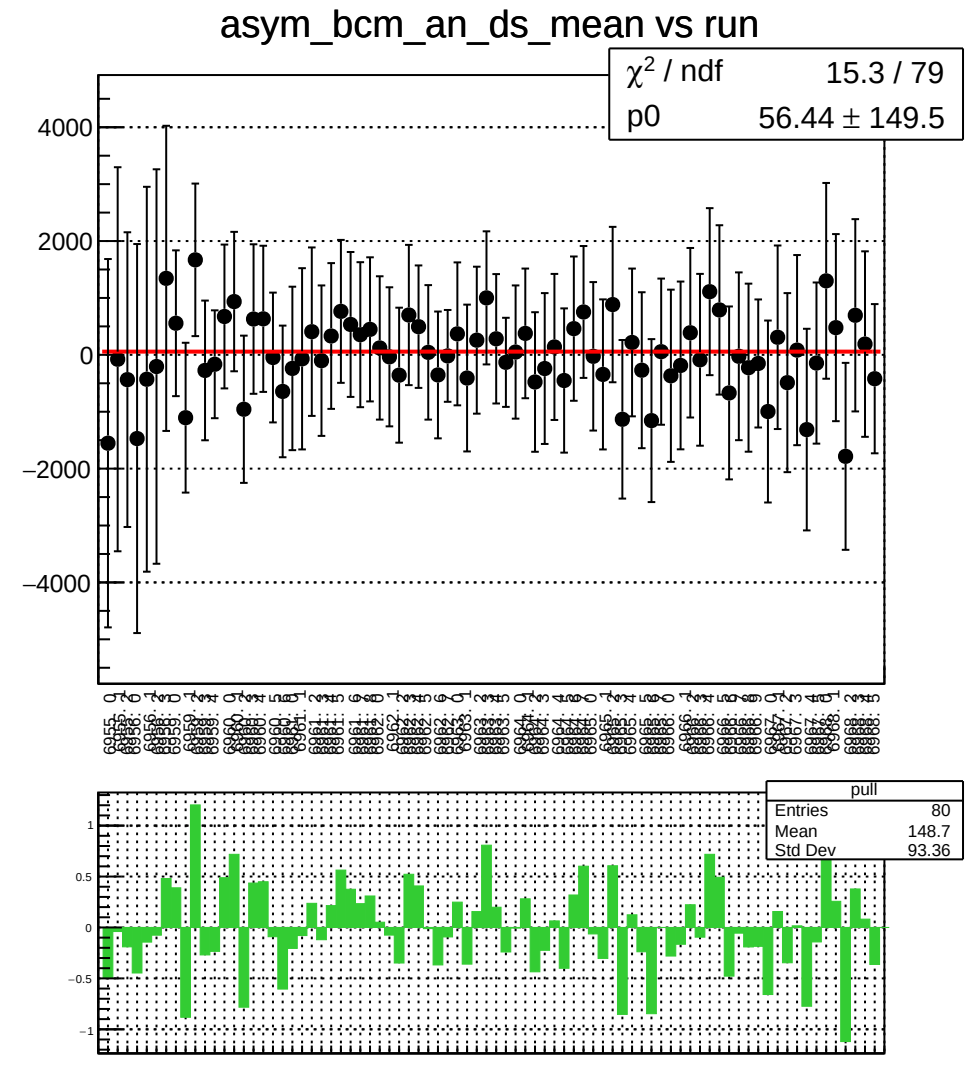

pull1D
Entries 80
Mean 2.02
Std Dev 1.813
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

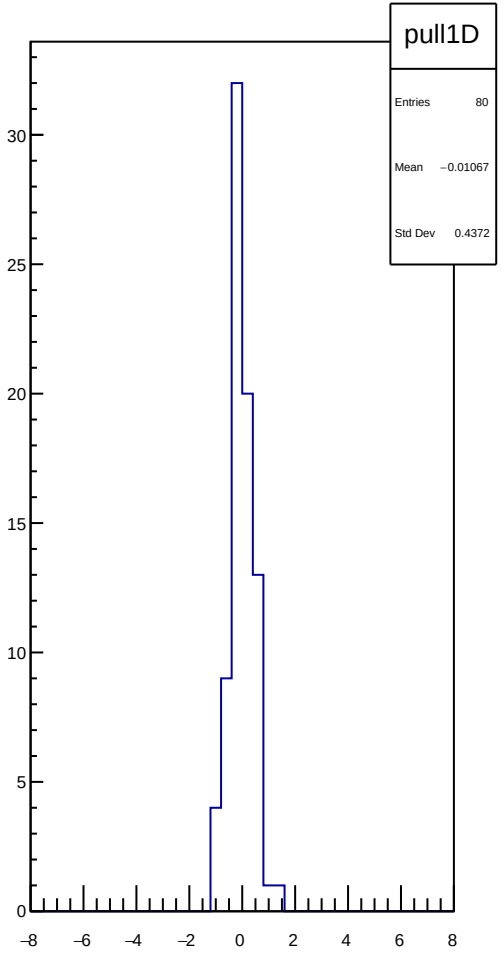

yield_bpm0i07WS_rms vs run
χ² / ndf 4.808e+04 / 79
p0 191.1 ± 0.1553
3000
2500
2000
1500
1000
500

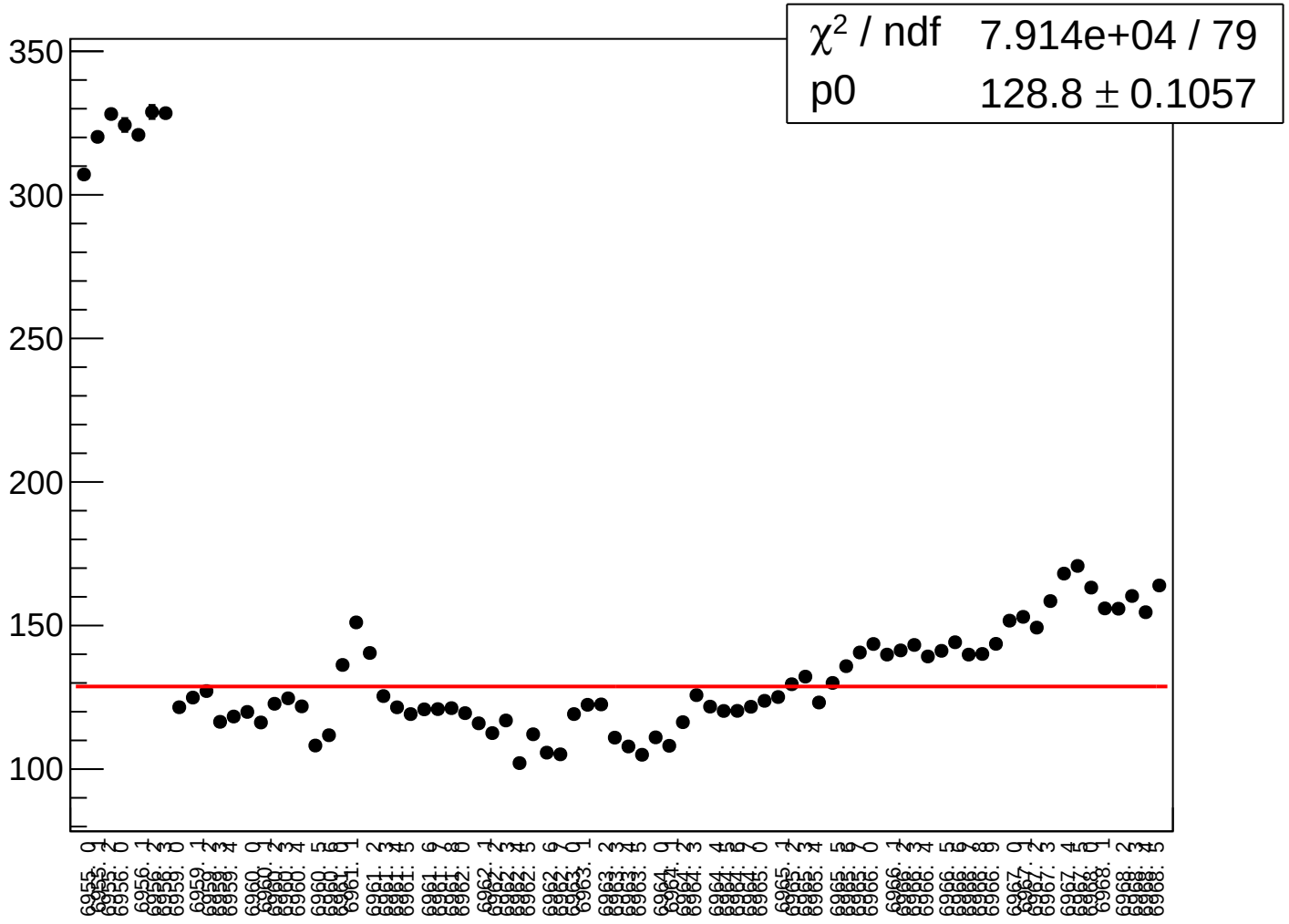

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.494e+05 / 79
p0 1.289e+05 ± 0.1909
129
128
127
126
125
pull
Entries 80
Mean −49.43
Std Dev 95.18
100
50
0
−50
−100
−150
−200
−250

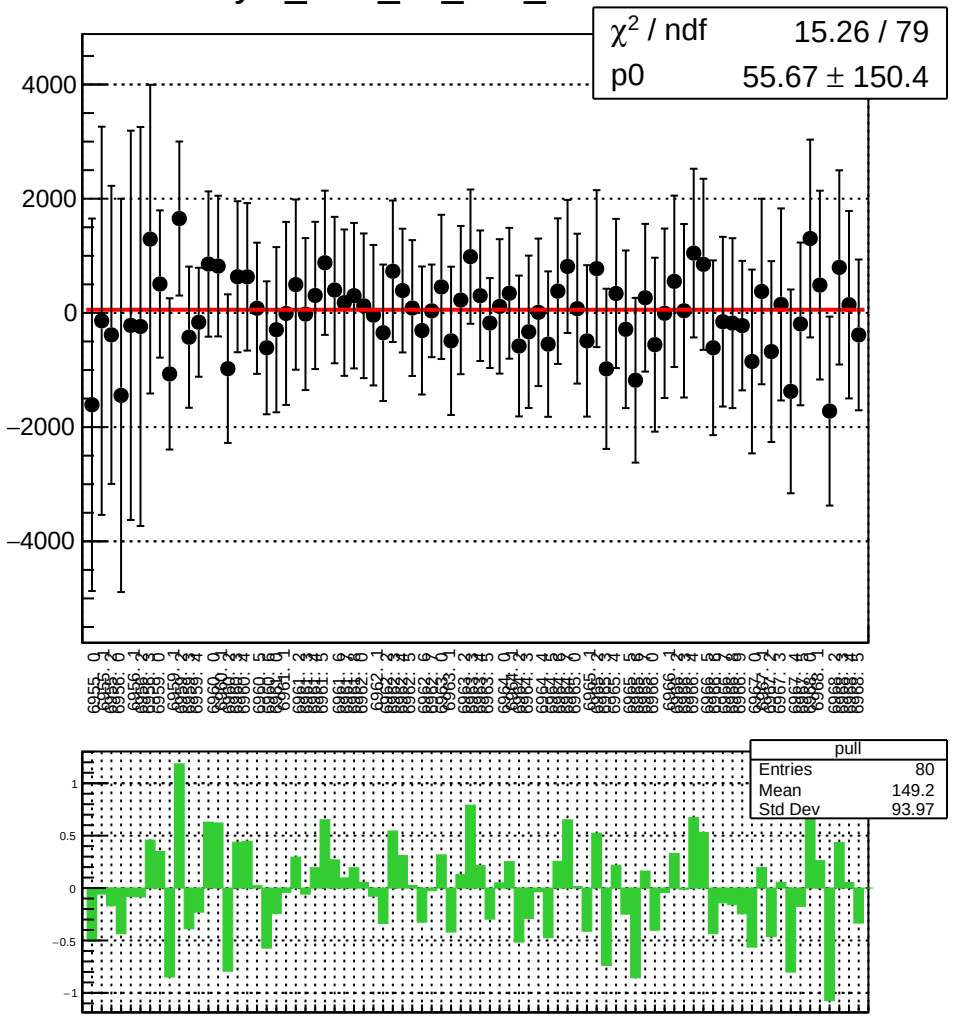

pull1D
Entries 80
Mean 0.7484
Std Dev 5.088
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

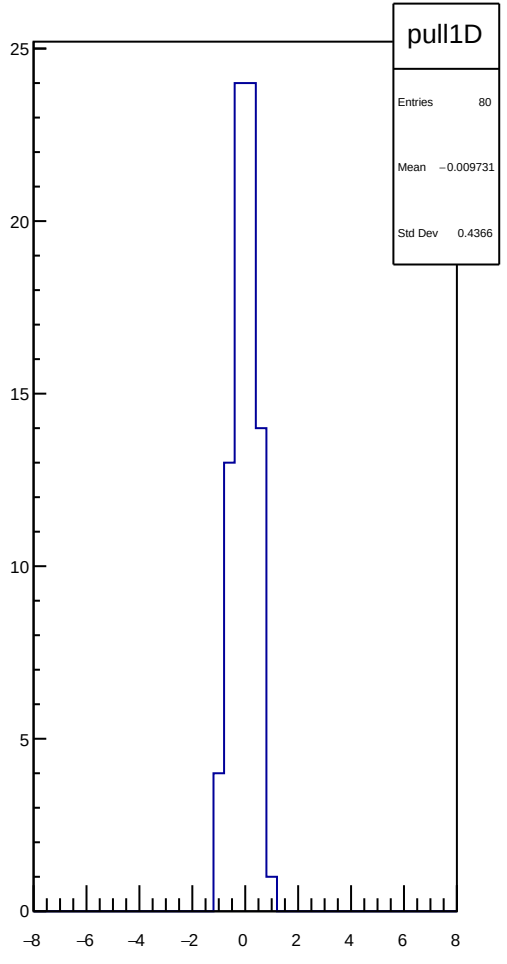

yield_bpm0l01WS_rms vs run
χ² / ndf 6.771e+04 / 79
p0 165.1 ± 0.135
2500
2000
1500
1000
500

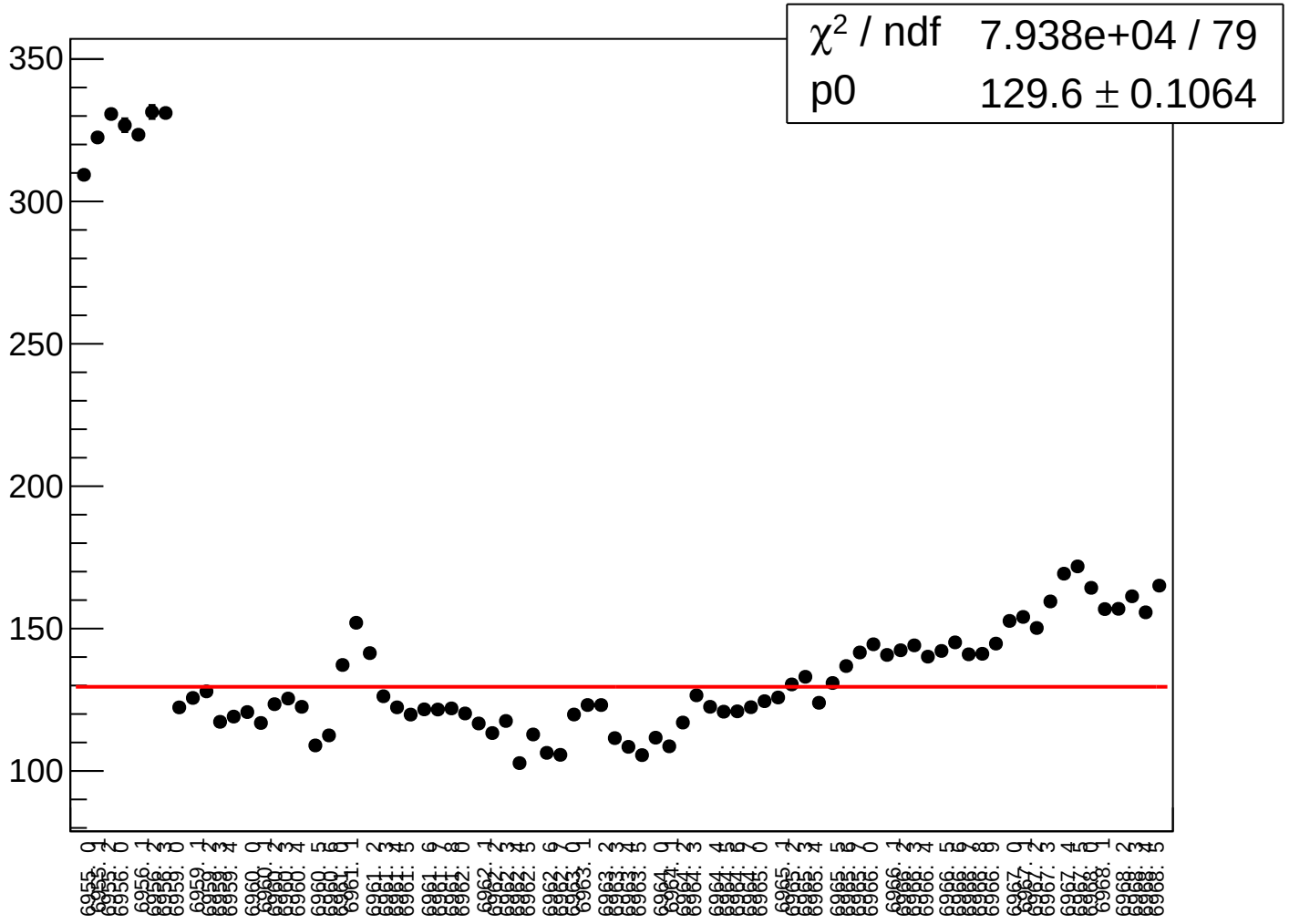

asym_bcm_an_ds_mean vs run
χ² / ndf 15.3 / 79
p0 56.44 ± 149.5
4000
2000
0
−2000
−4000
pull
Entries 80
Mean 148.7
Std Dev 93.36
1
0.5
0
−0.5
−1

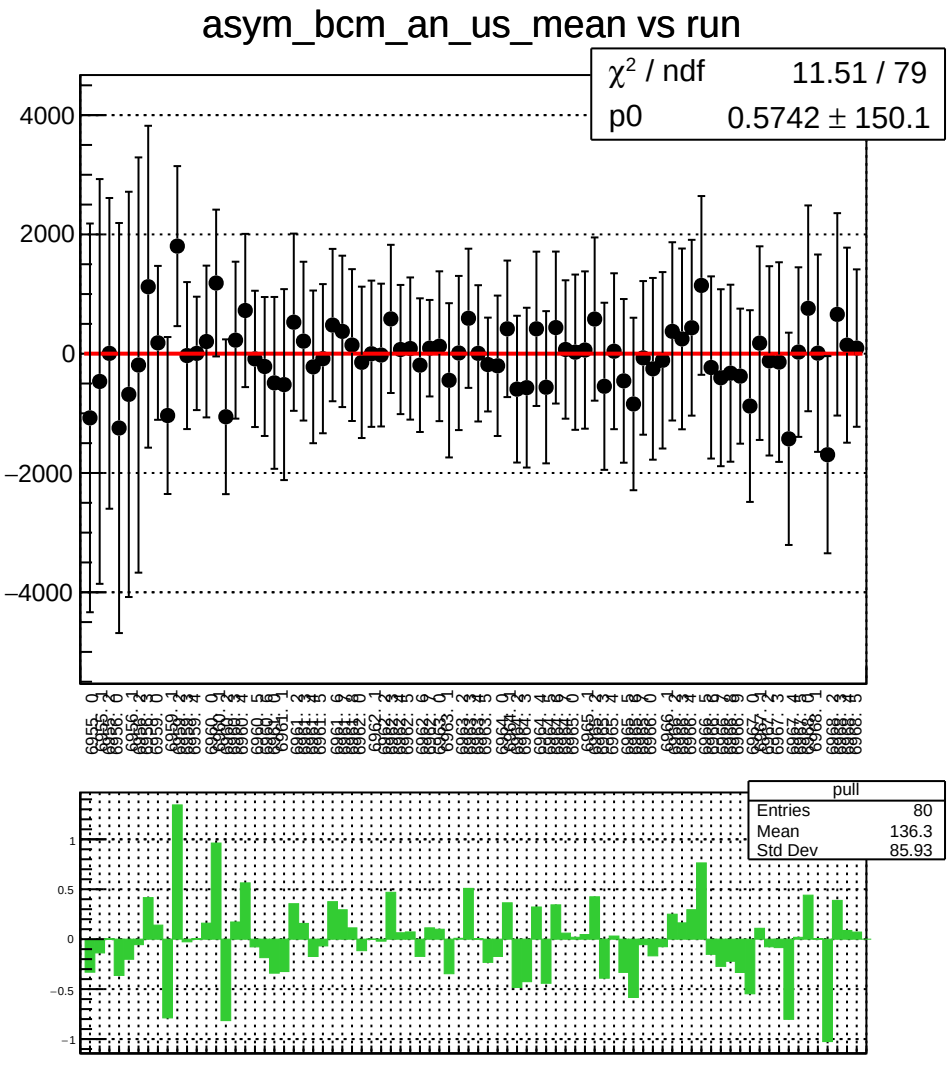

pull1D
Entries 80
Mean −0.01067
Std Dev 0.4372
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

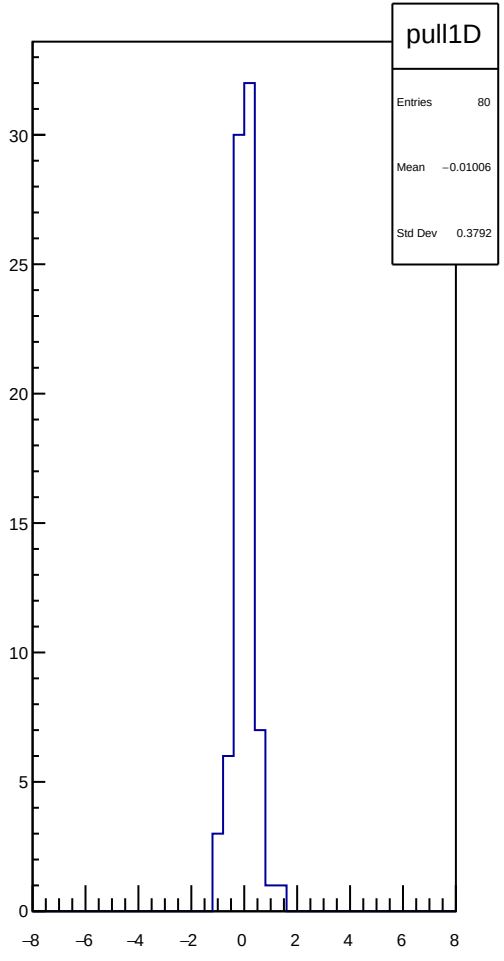

asym_bcm_an_ds_rms vs run
χ² / ndf 7.914e+04 / 79
p0 128.8 ± 0.1057
350
300
250
200
150
100

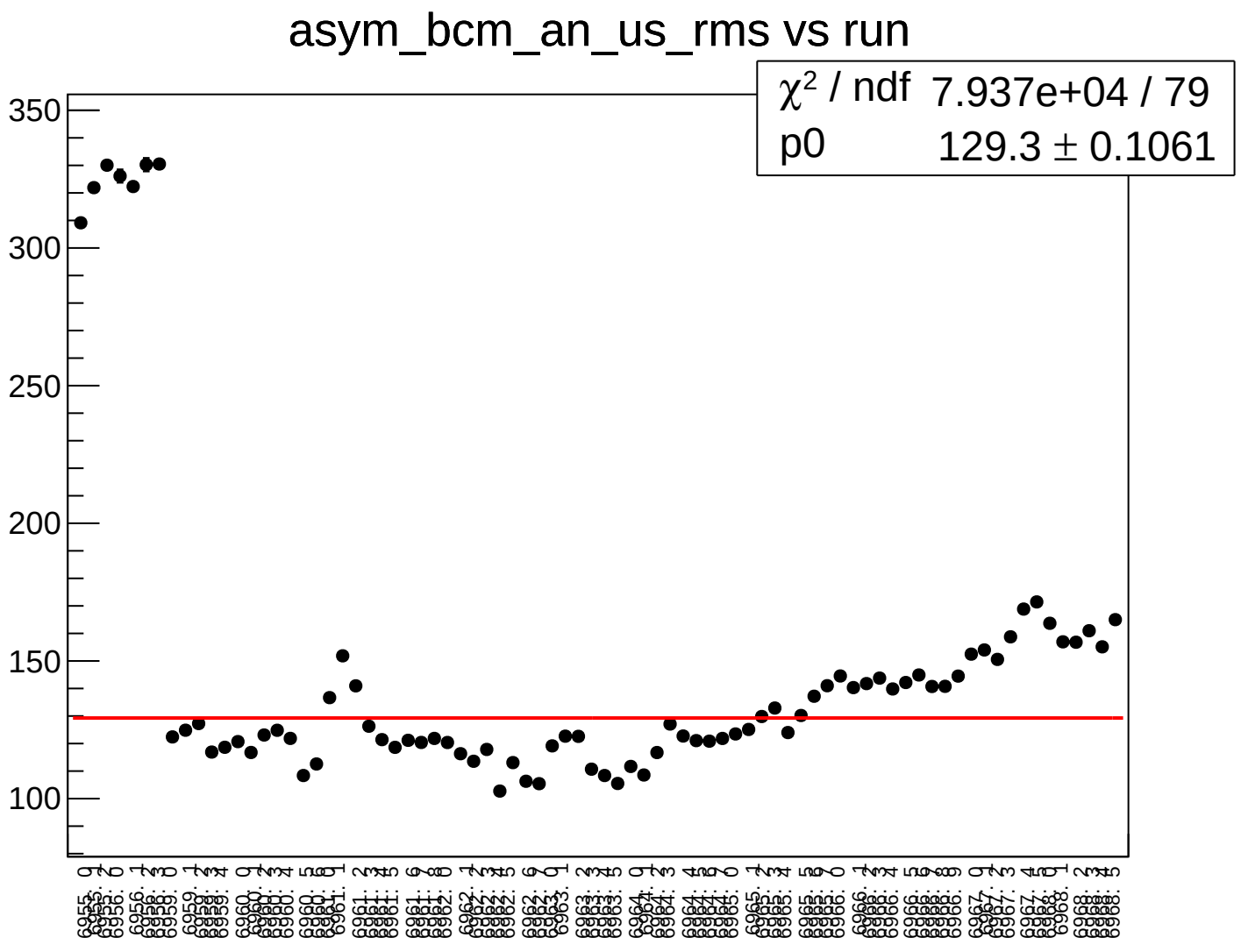

asym_bcm_an_ds3_mean vs run
χ² / ndf 15.26 / 79
p0 55.67 ± 150.4
4000
2000
0
−2000
−4000
pull
Entries 80
Mean 149.2
Std Dev 93.97
1
0.5
0
−0.5
−1

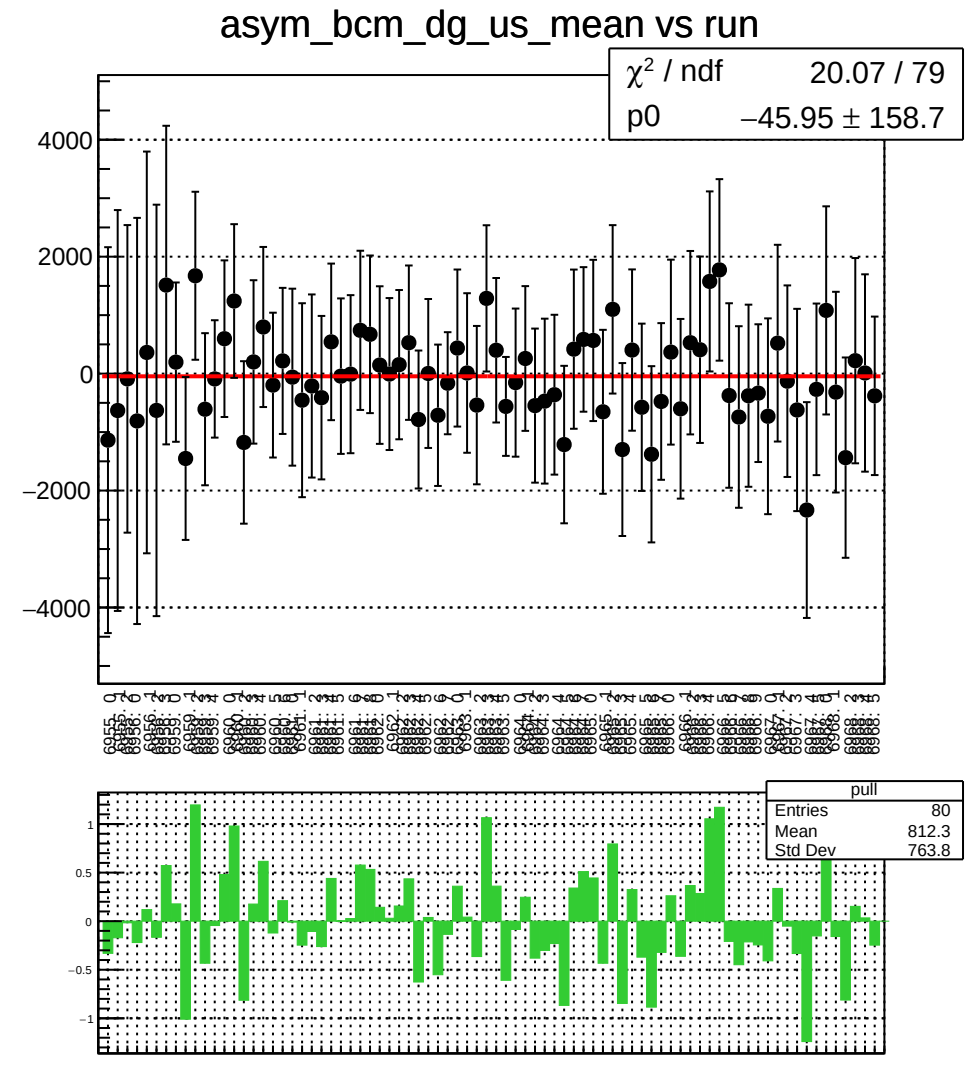

pull1D
Entries 80
Mean −0.009731
Std Dev 0.4366
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

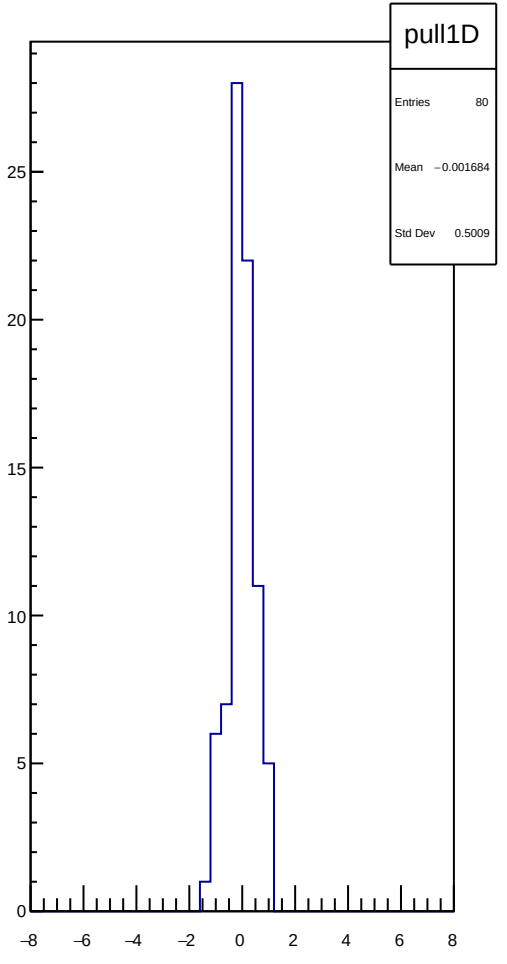

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 7.938e+04 / 79
p0 129.6 ± 0.1064
350
300
250
200
150
100

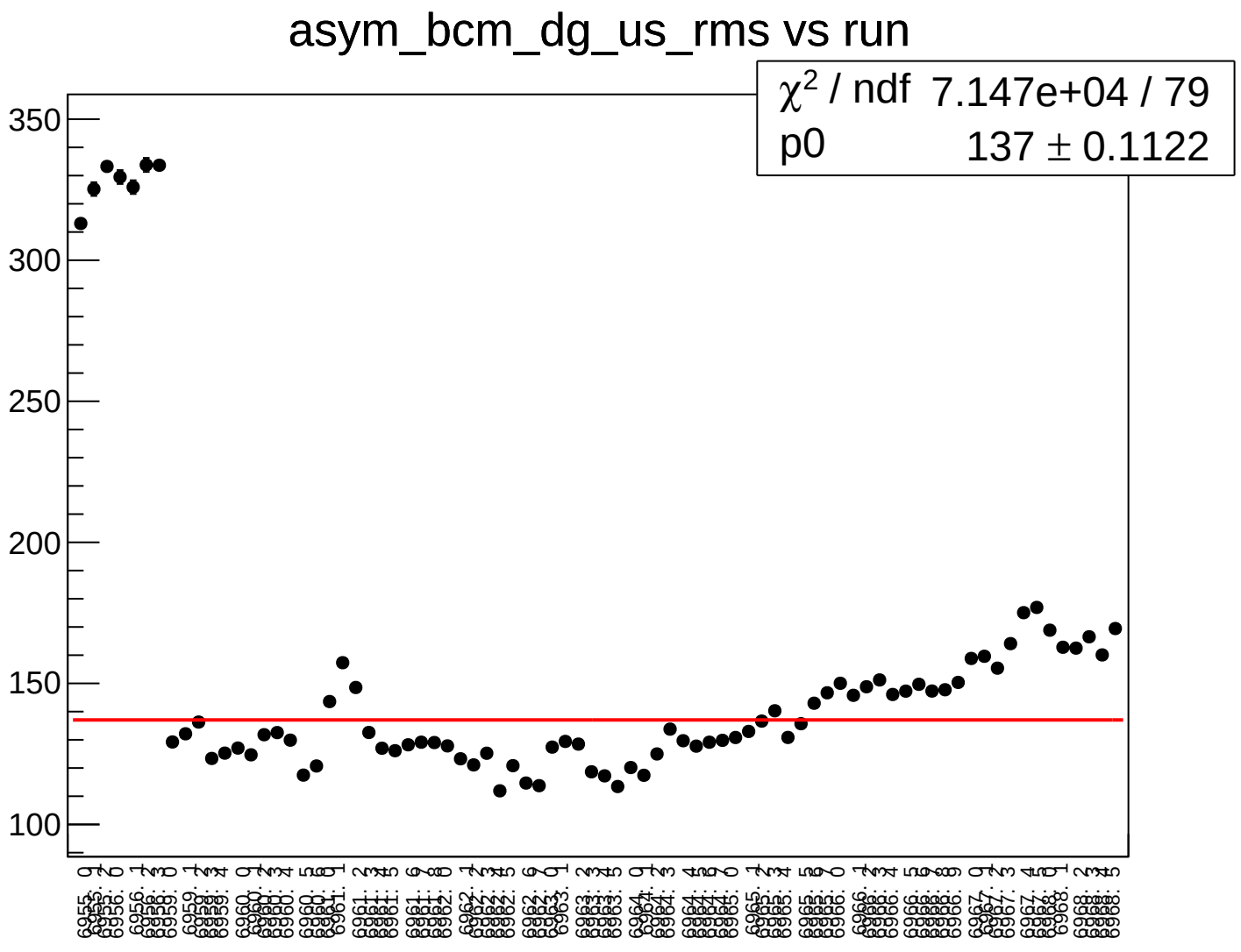

asym_bcm_an_us_mean vs run
χ² / ndf 11.51 / 79
p0 0.5742 ± 150.1
4000
2000
0
−2000
−4000
pull
Entries 80
Mean 136.3
Std Dev 85.93
1
0.5
0
−0.5
−1

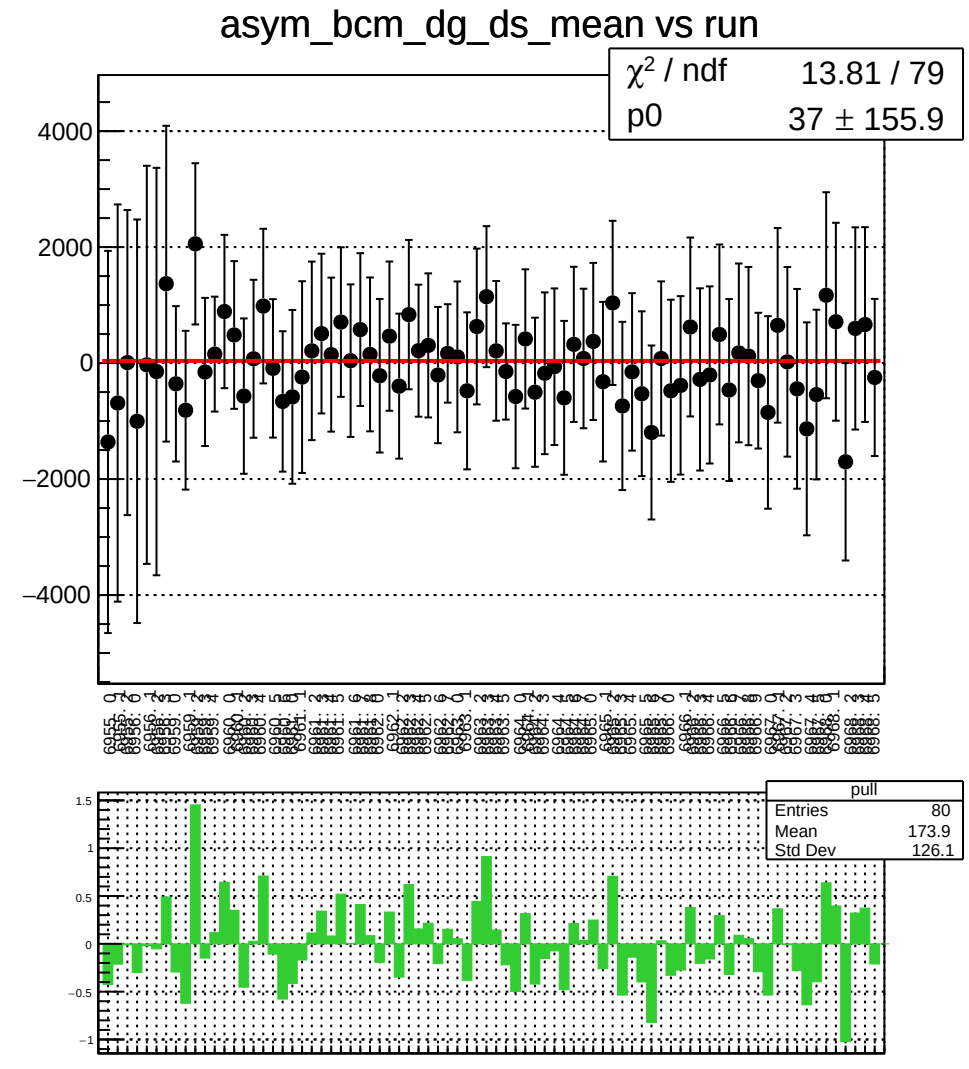

pull1D
Entries 80
Mean −0.01006
Std Dev 0.3792
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

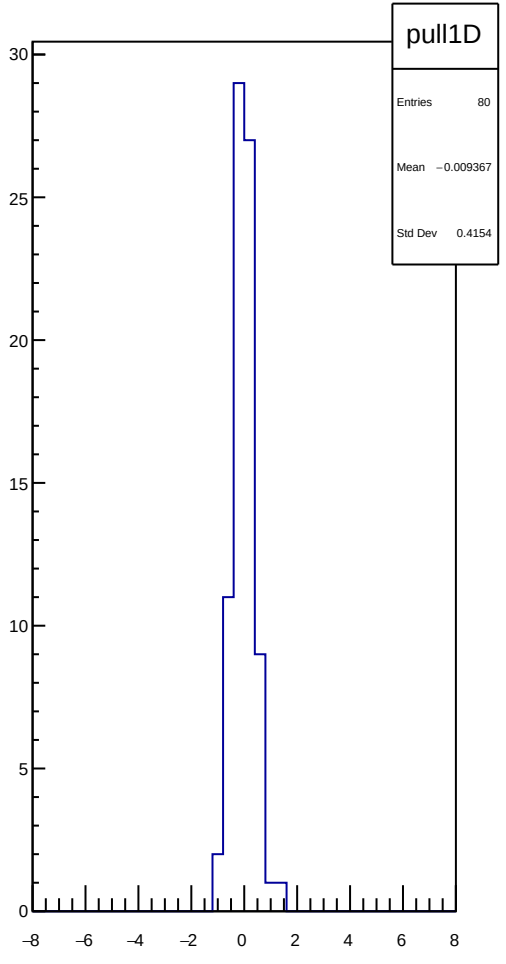

asym_bcm_an_us_rms vs run
χ² / ndf 7.937e+04 / 79
p0 129.3 ± 0.1061
350
300
250
200
150
100

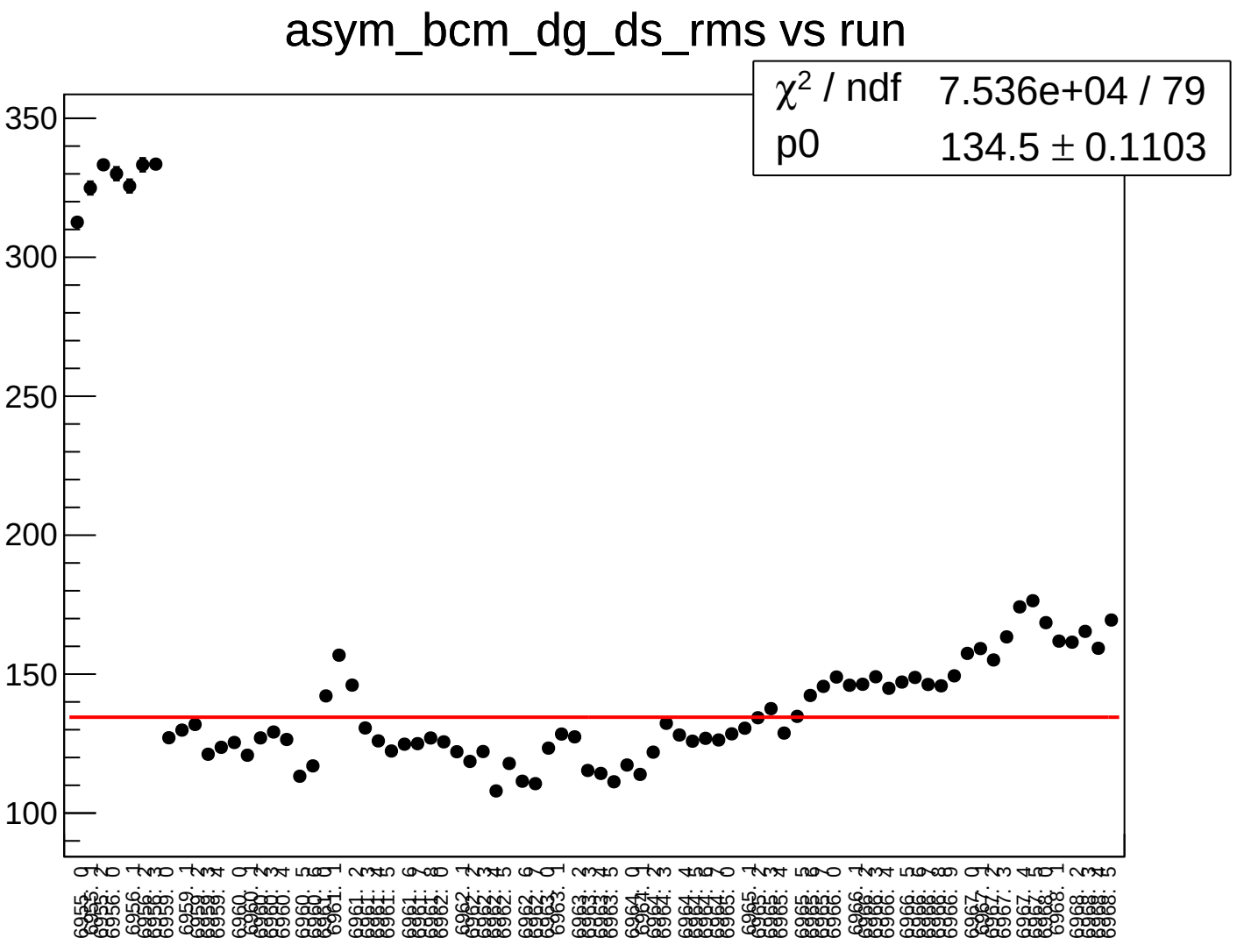

asym_bcm_dg_us_mean vs run
χ² / ndf 20.07 / 79
p0 −45.95 ± 158.7
4000
2000
0
−2000
−4000
pull
Entries 80
Mean 812.3
Std Dev 763.8
1
0.5
0
−0.5
−1

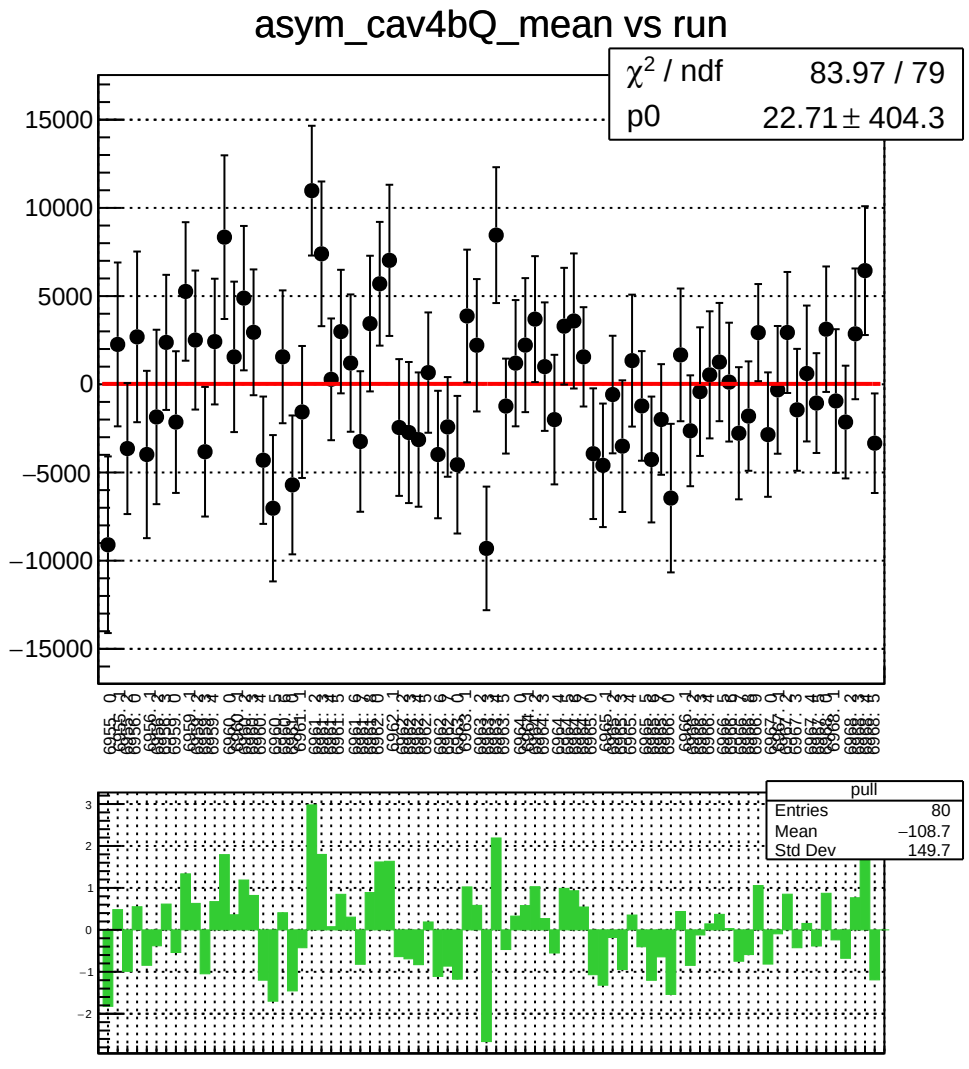

pull1D
Entries 80
Mean −0.001684
Std Dev 0.5009
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

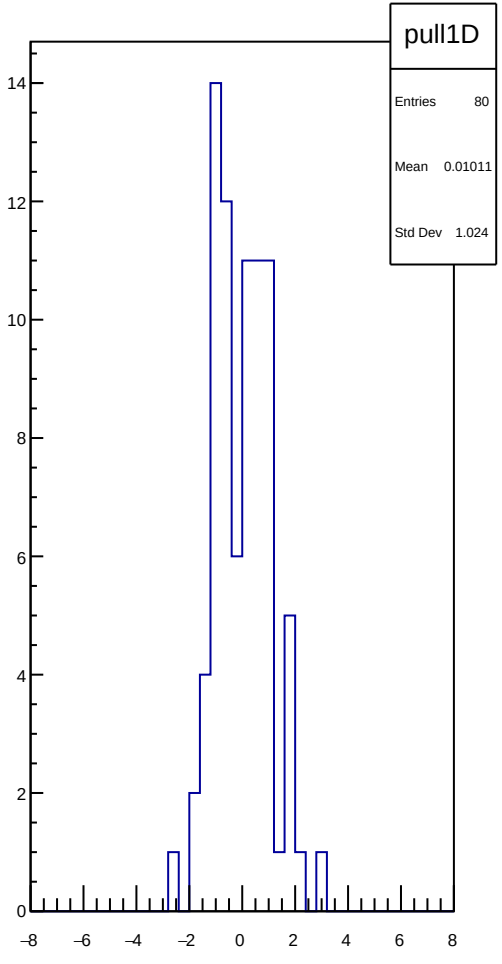

asym_bcm_dg_us_rms vs run
χ^2 / ndf 7.147e+04 / 79
p0 137 ± 0.1122
350
300
250
200
150
100

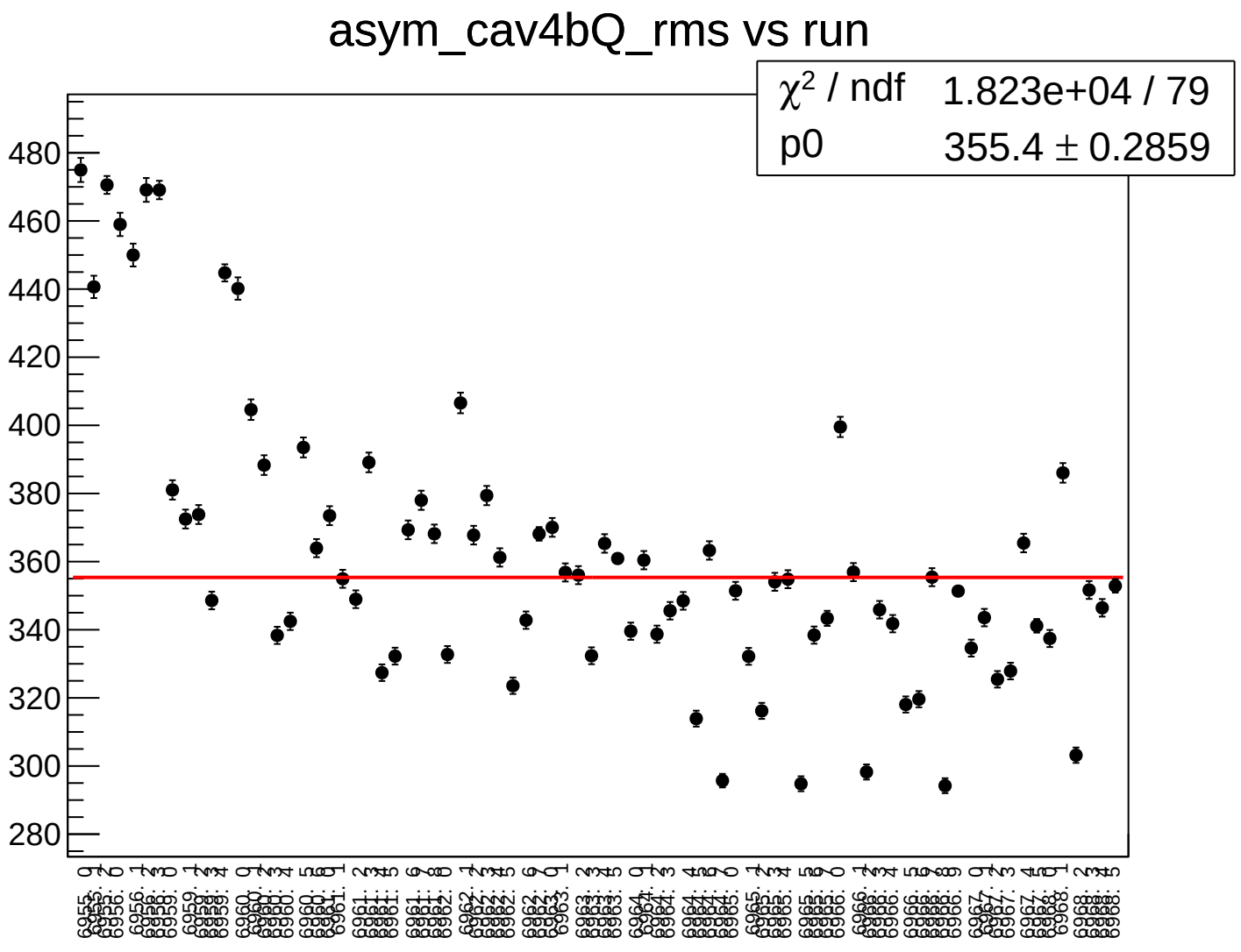

asym_bcm_dg_ds_mean vs run
χ² / ndf 13.81 / 79
p0 37 ± 155.9
4000
2000
0
−2000
−4000
pull
Entries 80
Mean 173.9
Std Dev 126.1
1.5
1
0.5
0
−0.5
−1

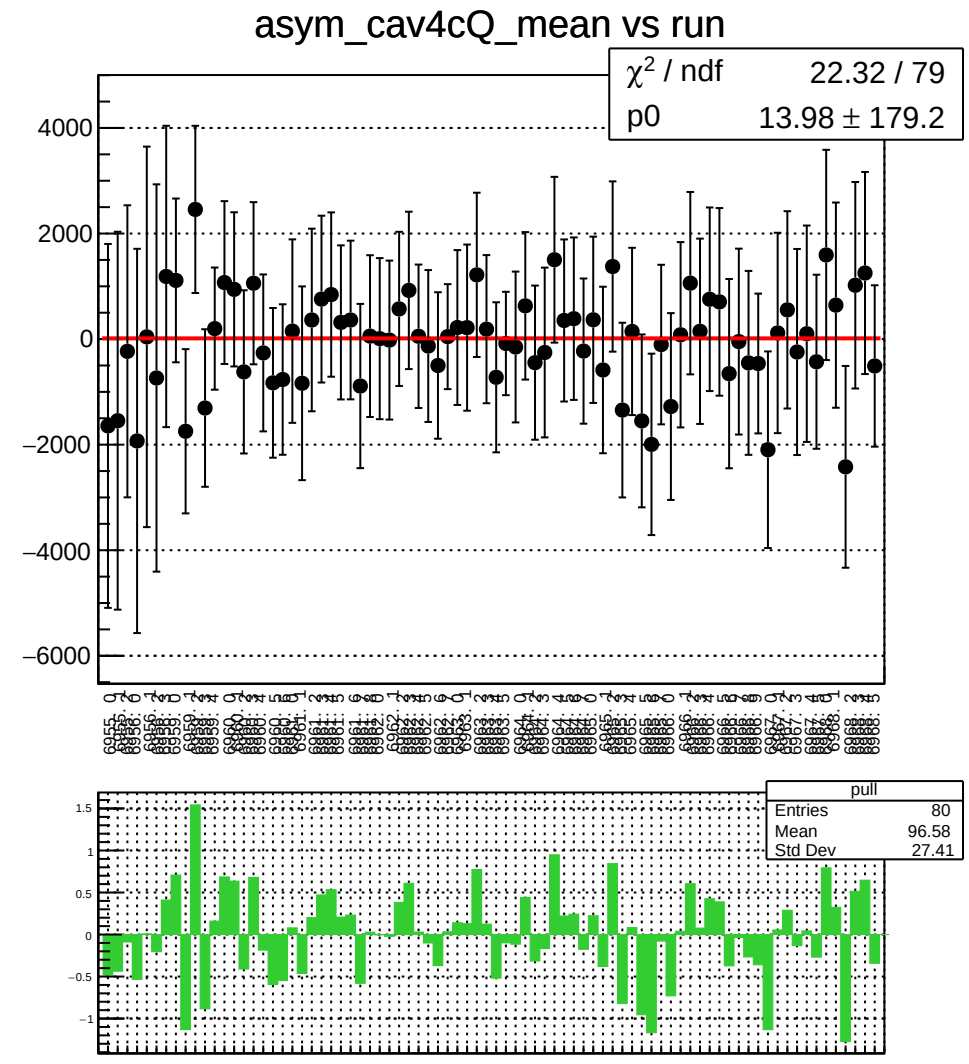

pull1D
Entries 80
Mean −0.009367
Std Dev 0.4154
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

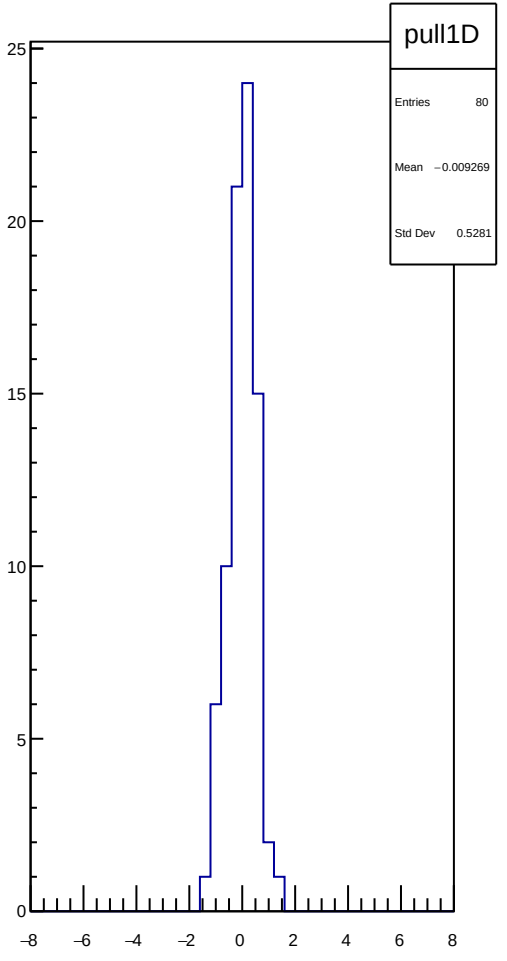

asym_bcm_dg_ds_rms vs run
χ² / ndf 7.536e+04 / 79
p0 134.5 ± 0.1103
350
300
250
200
150
100

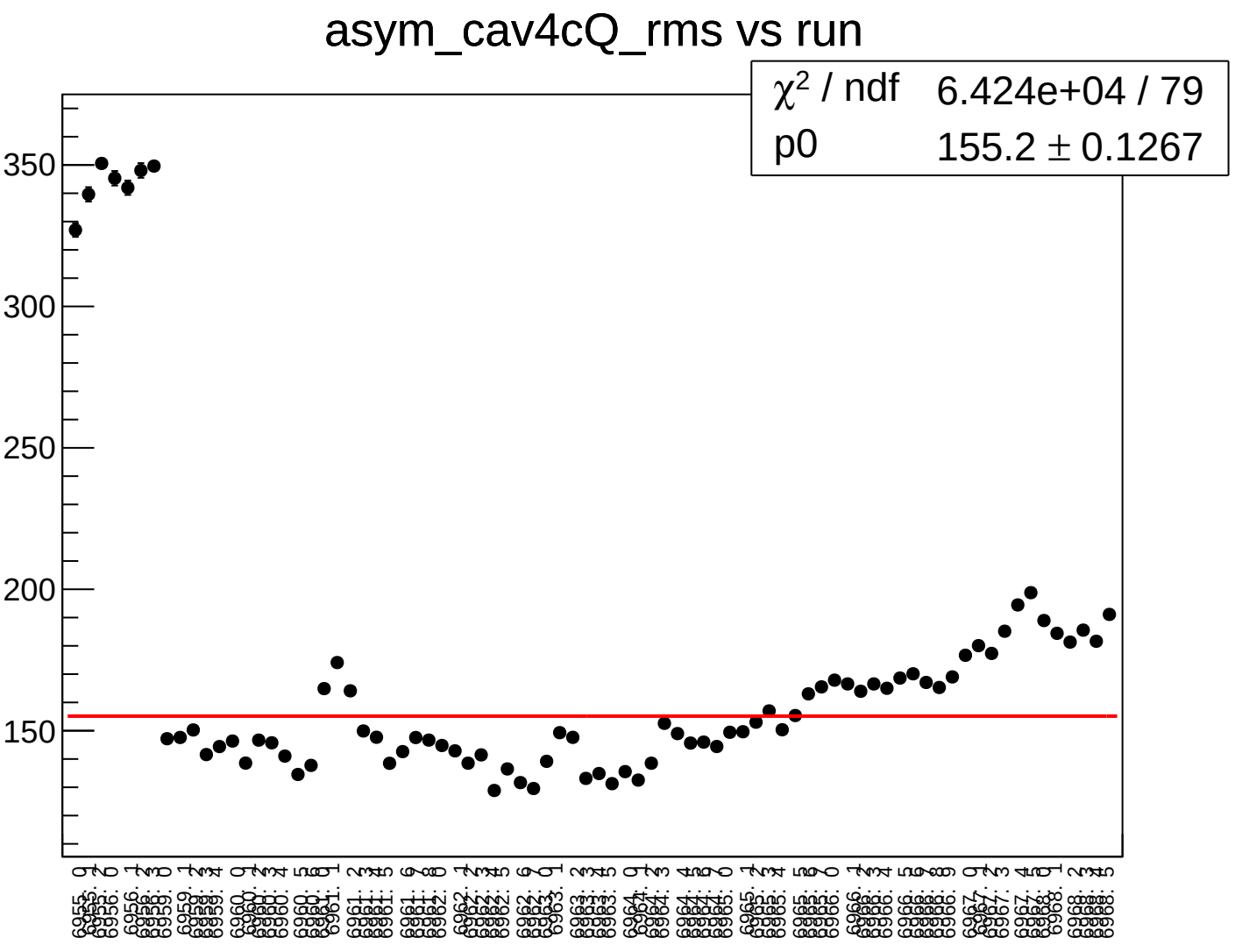

asym_cav4bQ_mean vs run
χ² / ndf 83.97 / 79
p0 22.71 ± 404.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 80
Mean −108.7
Std Dev 149.7
3
2
1
0
−1
−2

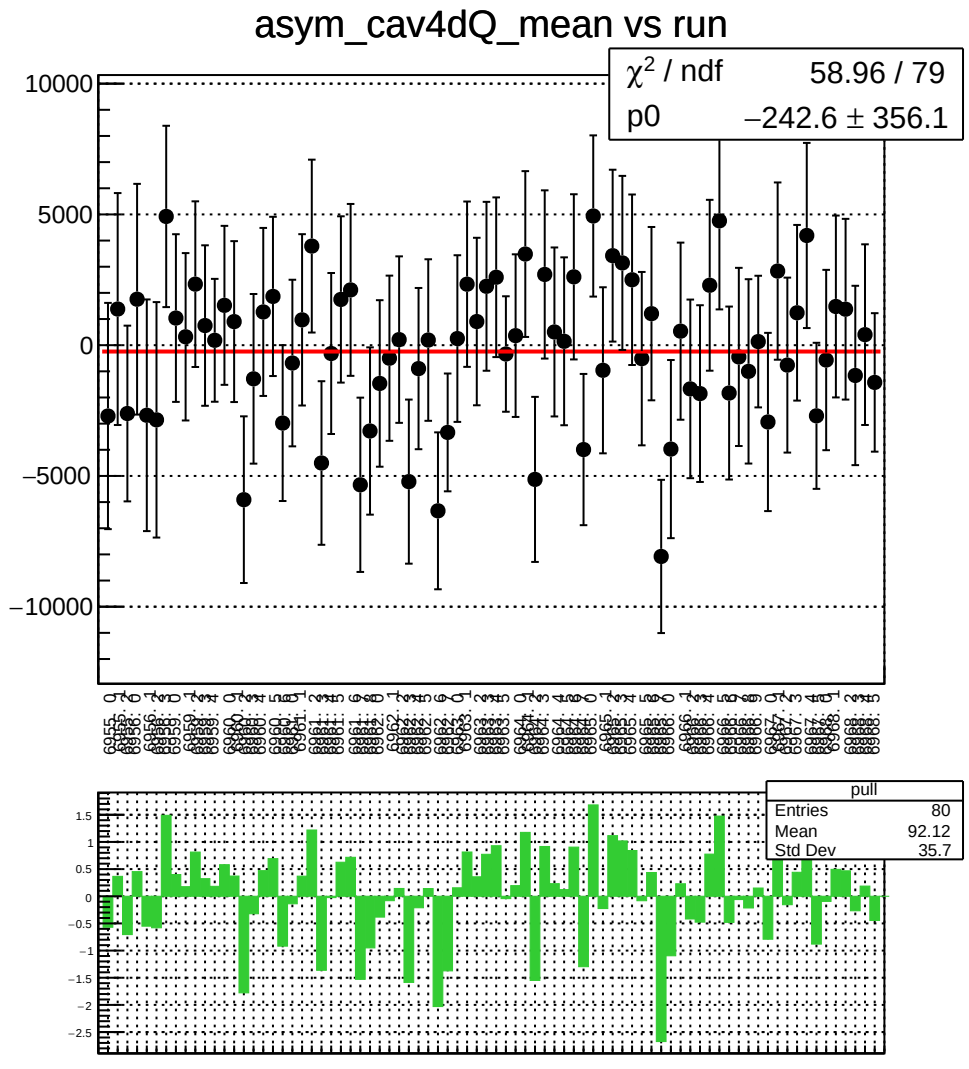

pull1D
Entries 80
Mean 0.01011
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

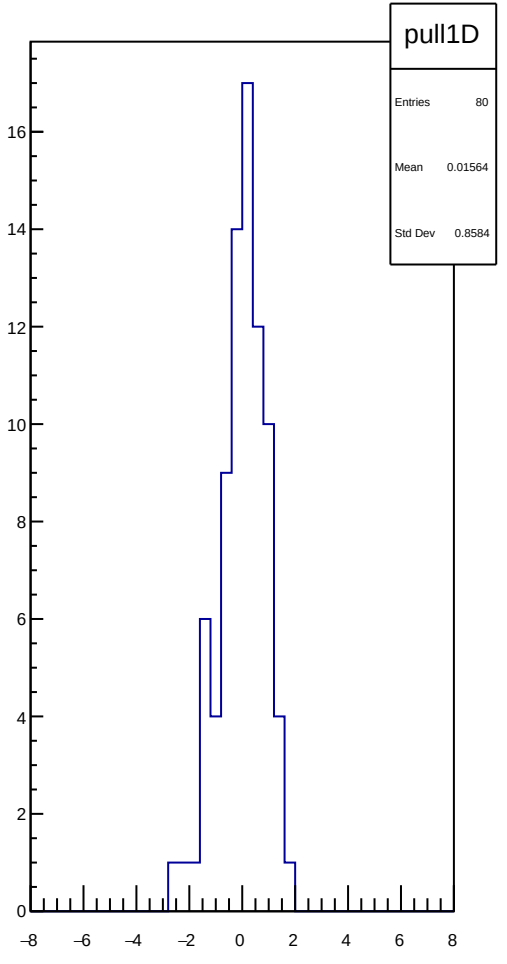

asym_cav4bQ_rms vs run
χ^2 / ndf 1.823e+04 / 79
p0 355.4 ± 0.2859
480
460
440
420
400
380
360
340
320
300
280

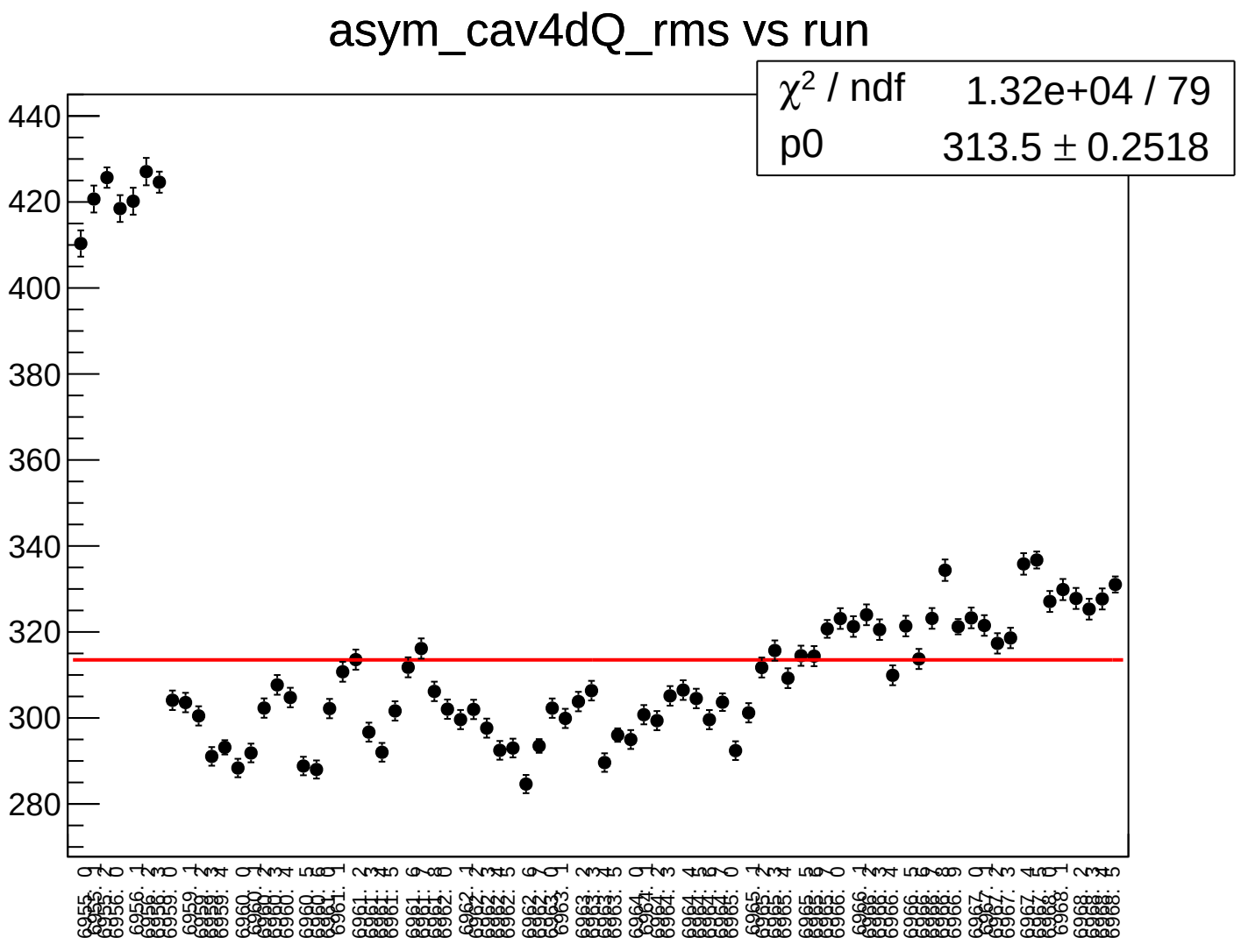

asym_cav4cQ_mean vs run
χ² / ndf 22.32 / 79
p0 13.98 ± 179.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 80
Mean 96.58
Std Dev 27.41
1.5
1
0.5
0
−0.5
−1

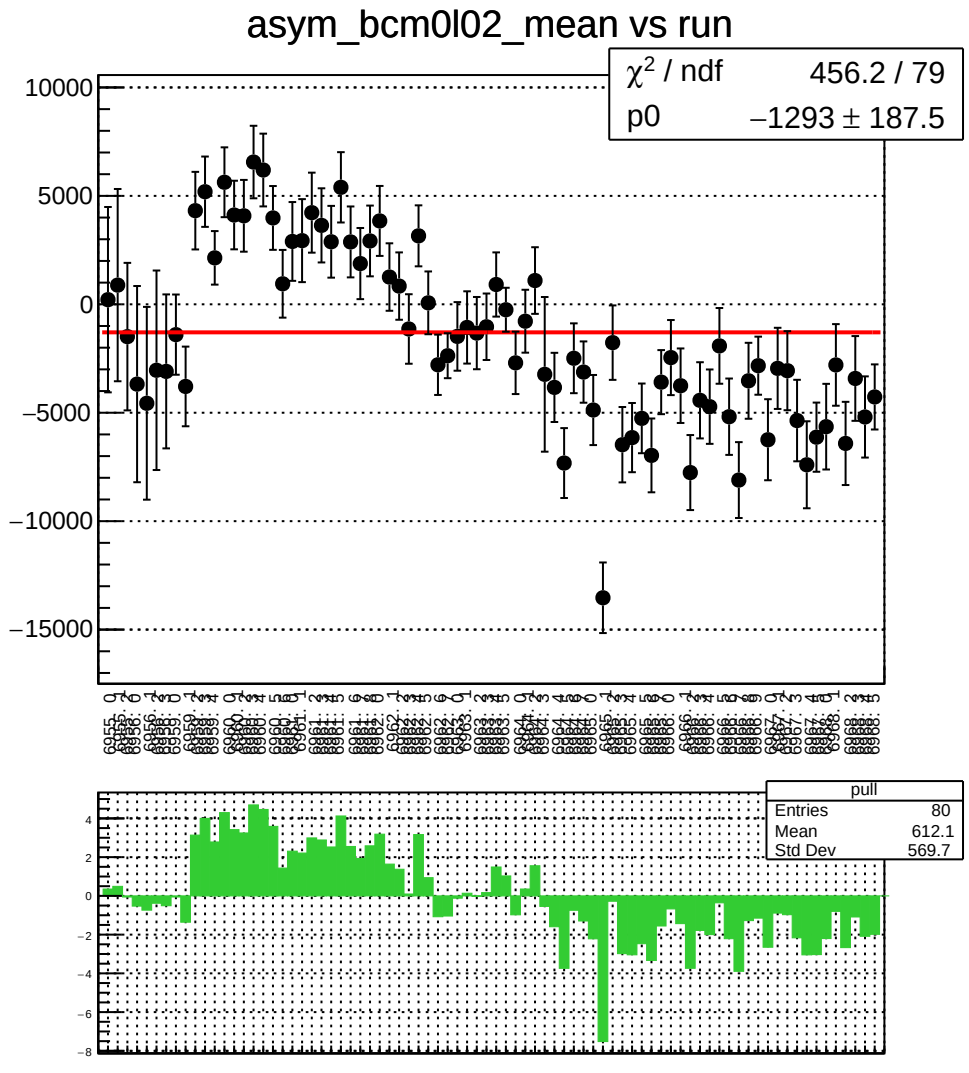

pull1D
Entries 80
Mean −0.009269
Std Dev 0.5281
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

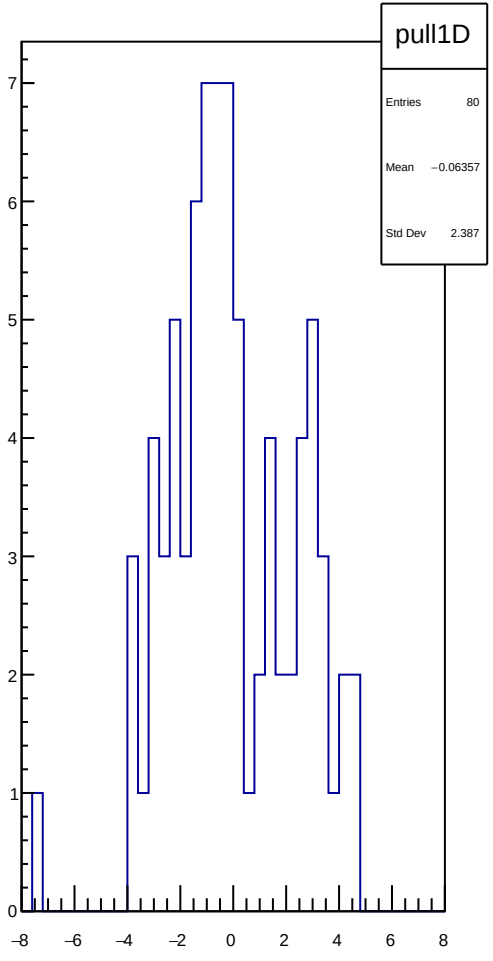

asym_cav4cQ_rms vs run
χ² / ndf 6.424e+04 / 79
p0 155.2 ± 0.1267
350
300
250
200
150

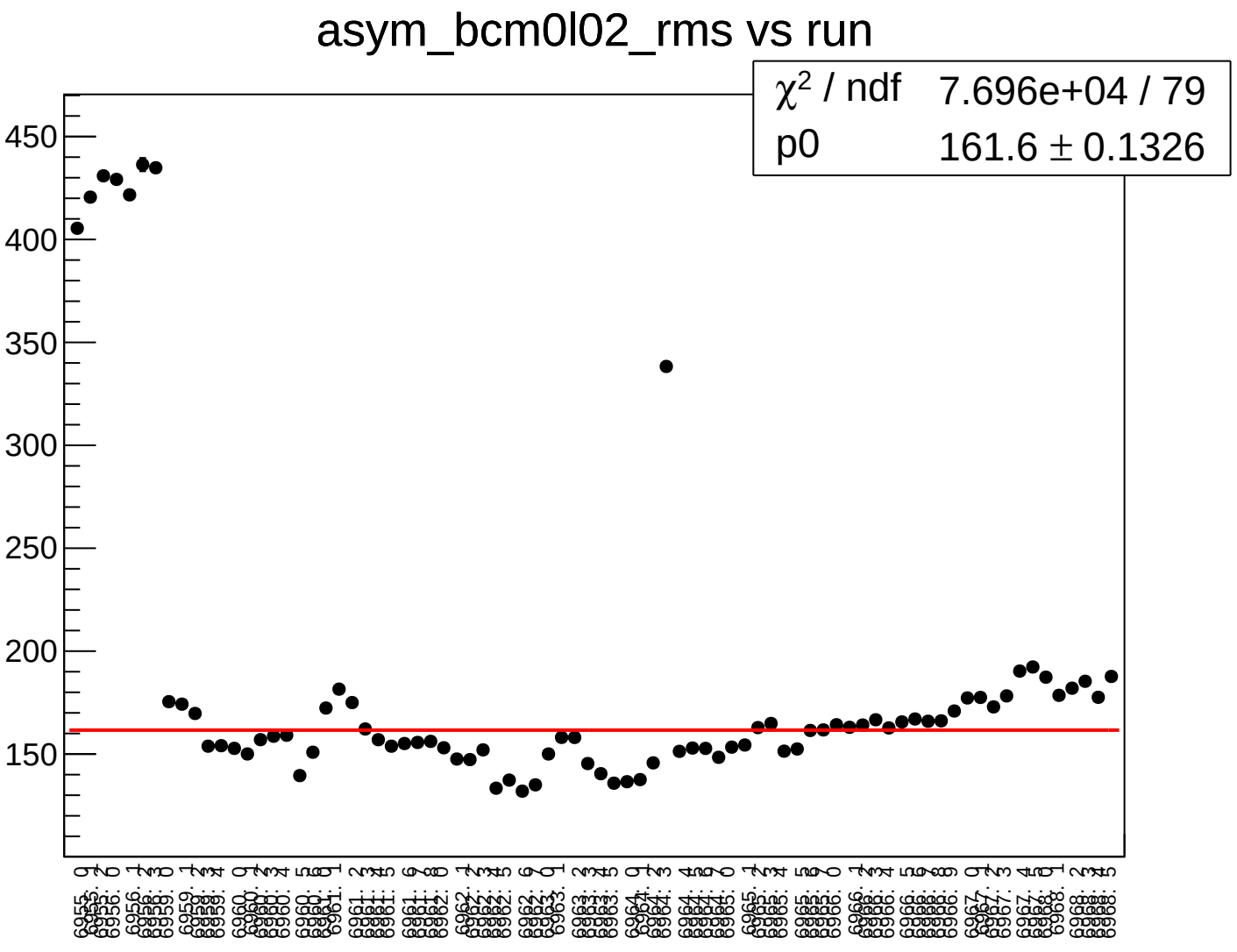

asym_cav4dQ_mean vs run
χ² / ndf 58.96 / 79
p0 −242.6 ± 356.1
10000
5000
0
−5000
−10000
pull
Entries 80
Mean 92.12
Std Dev 35.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

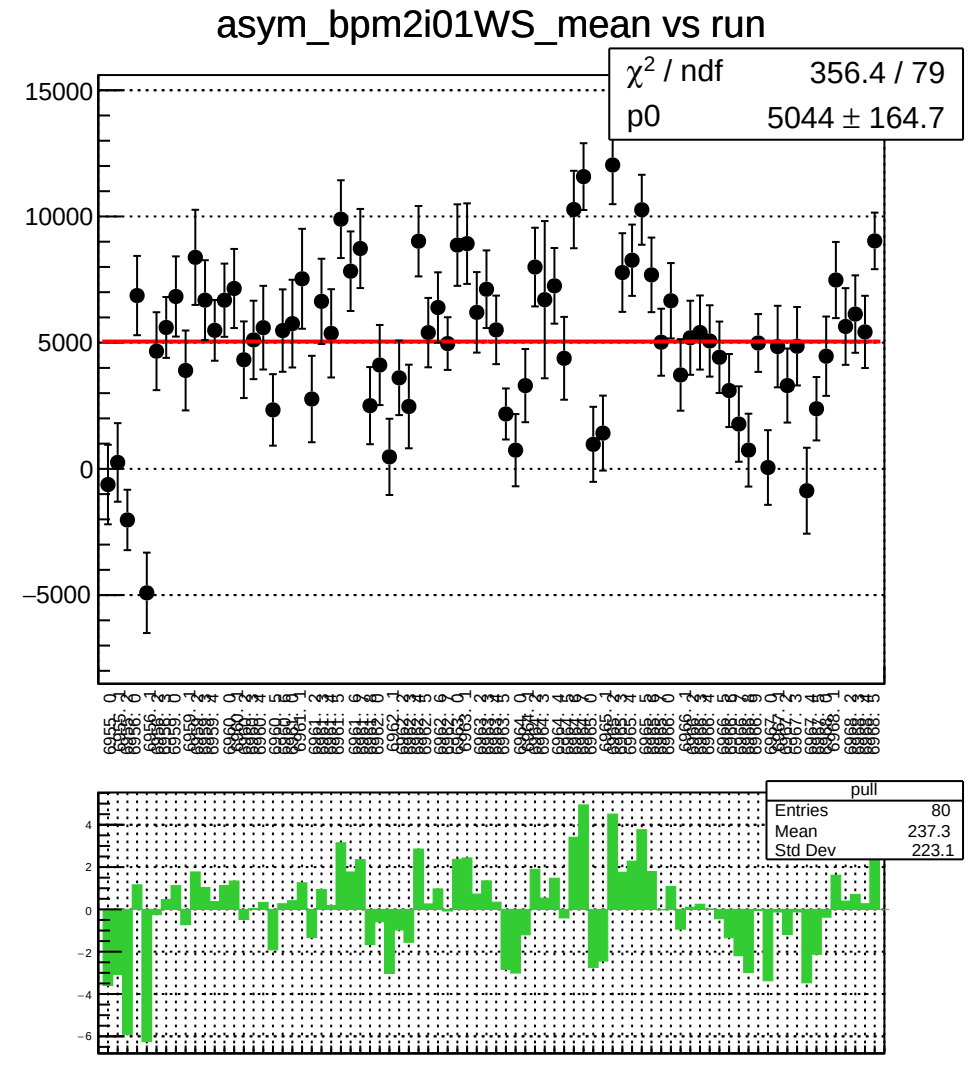

pull1D
Entries 80
Mean 0.01564
Std Dev 0.8584
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

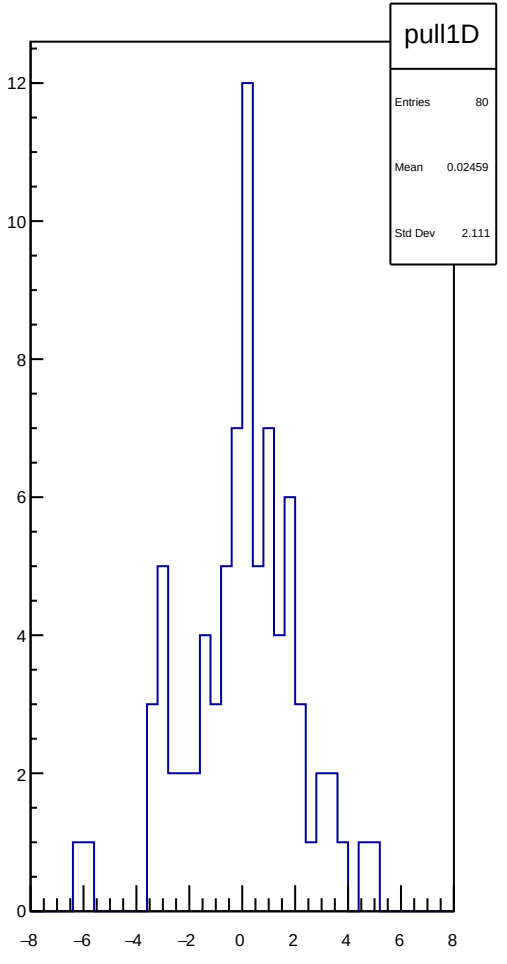

asym_cav4dQ_rms vs run
χ^2 / ndf 1.32e+04 / 79
p0 313.5 ± 0.2518
440
420
400
380
360
340
320
300
280

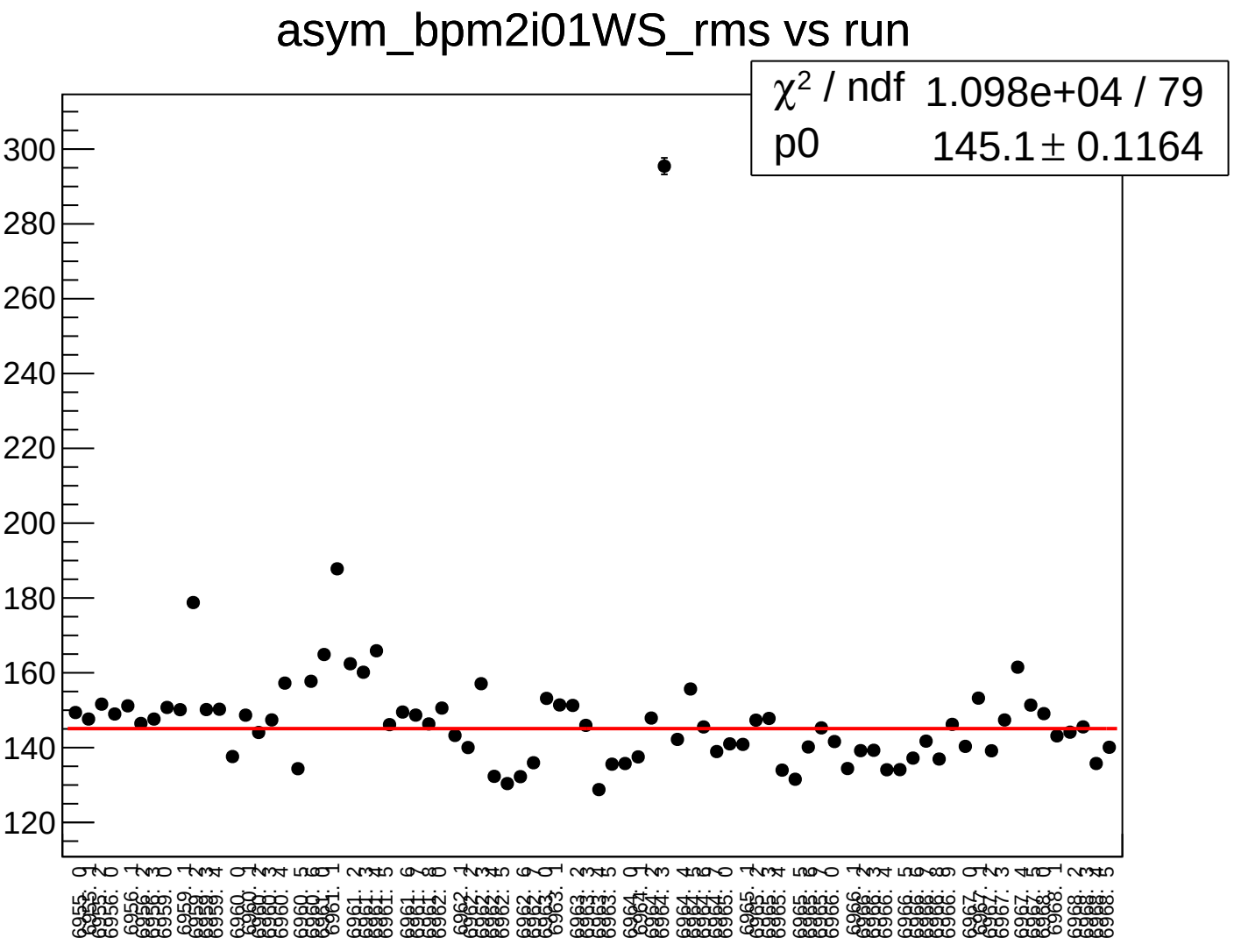

asym_bcm0l02_mean vs run
χ² / ndf 456.2 / 79
p0 −1293 ± 187.5
pull
Entries 80
Mean 612.1
Std Dev 569.7

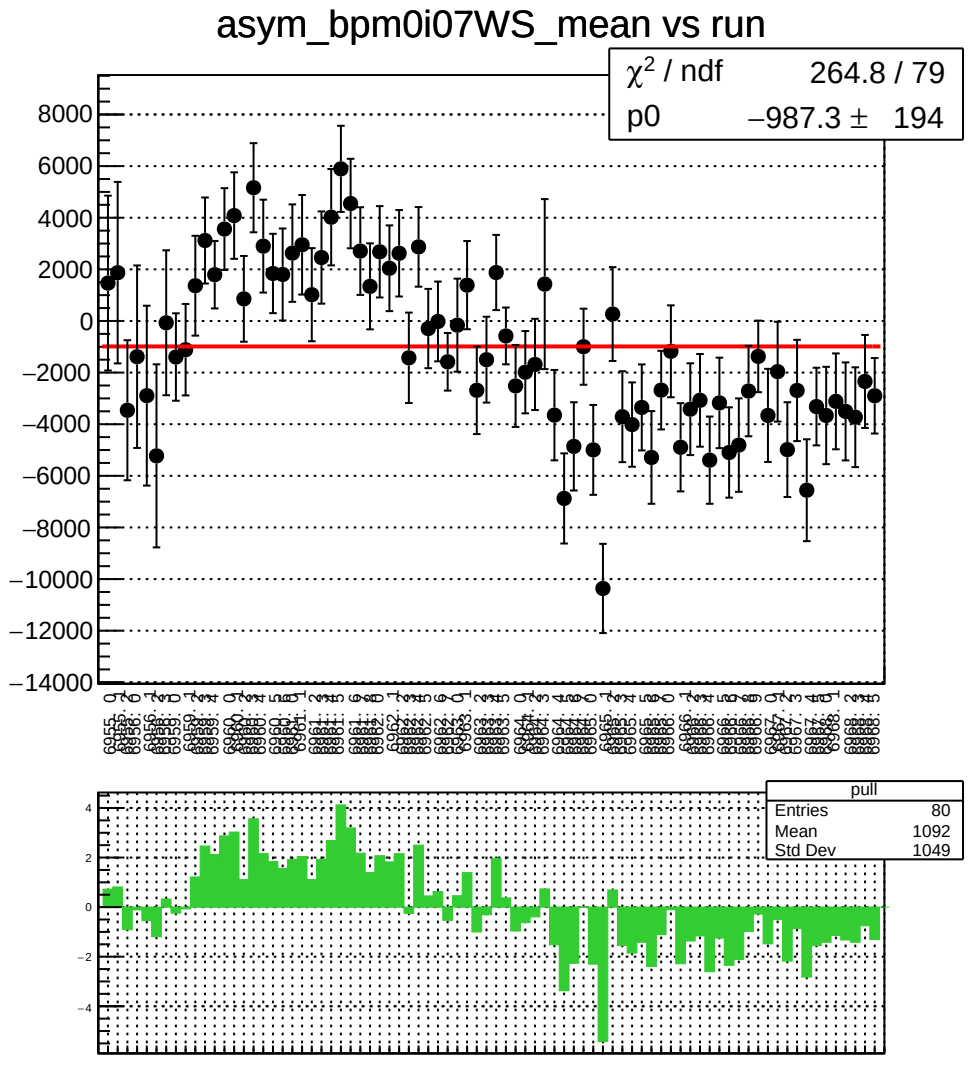

pull1D
Entries 80
Mean −0.06357
Std Dev 2.387

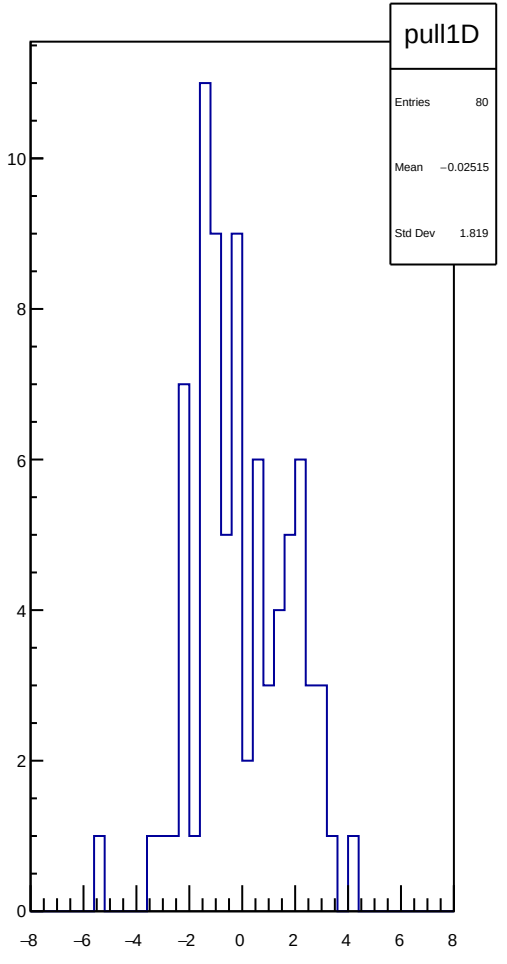

asym_bcm0l02_rms vs run
χ² / ndf 7.696e+04 / 79
p0 161.6 ± 0.1326
450
400
350
300
250
200
150

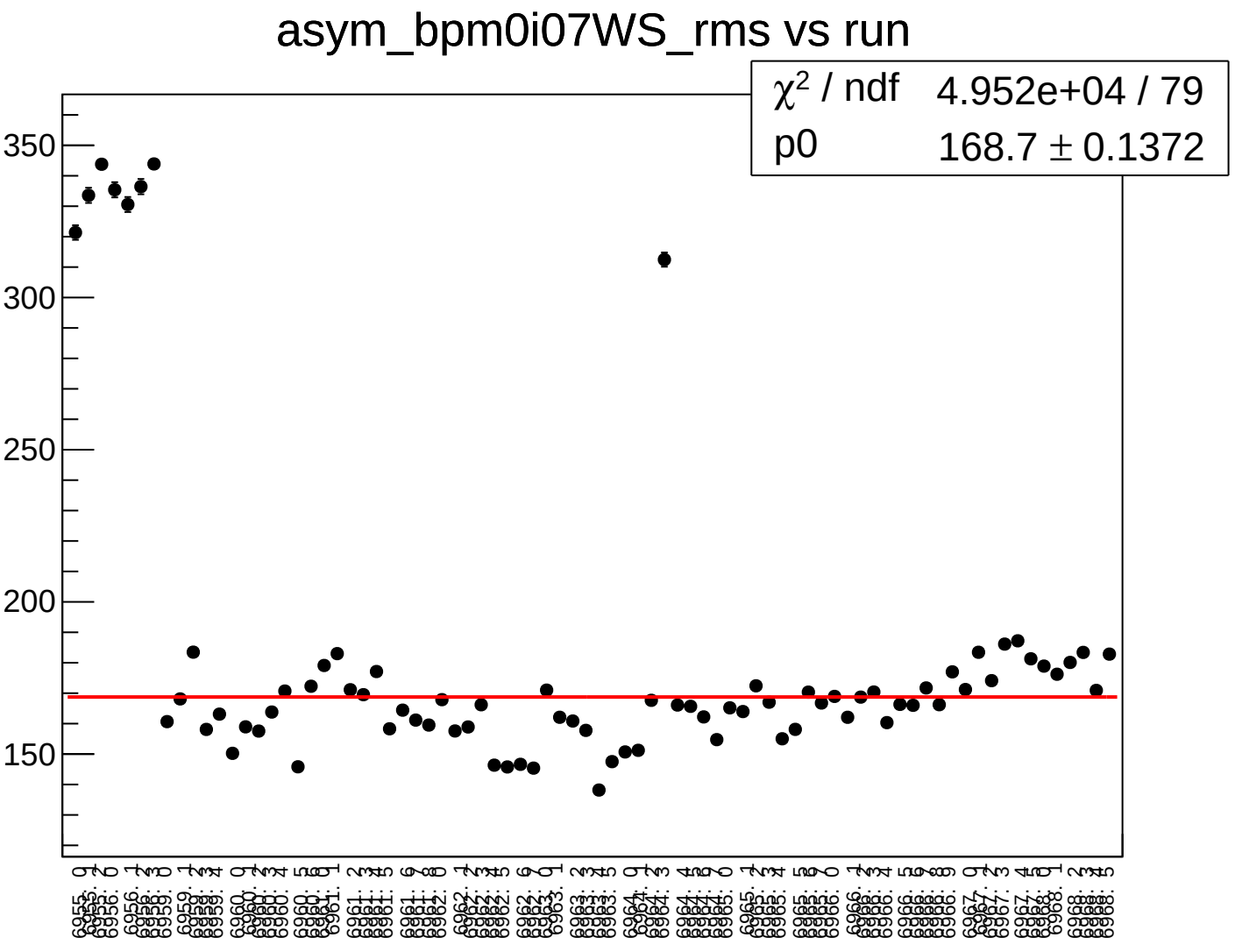

asym_bpm2i01WS_mean vs run
χ² / ndf 356.4 / 79
p0 5044 ± 164.7
15000
10000
5000
0
−5000
pull
Entries 80
Mean 237.3
Std Dev 223.1
4
2
0
−2
−4
−6

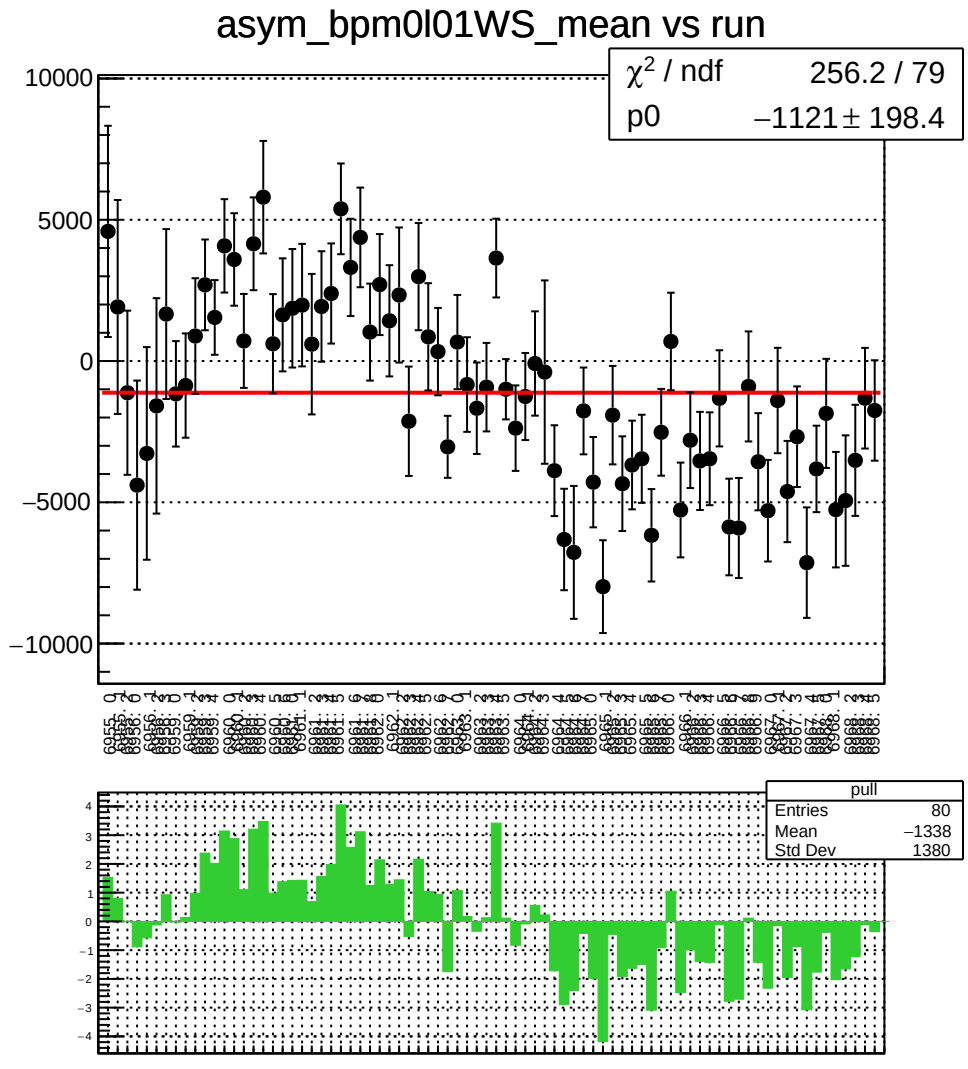

pull1D
Entries 80
Mean 0.02459
Std Dev 2.111
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

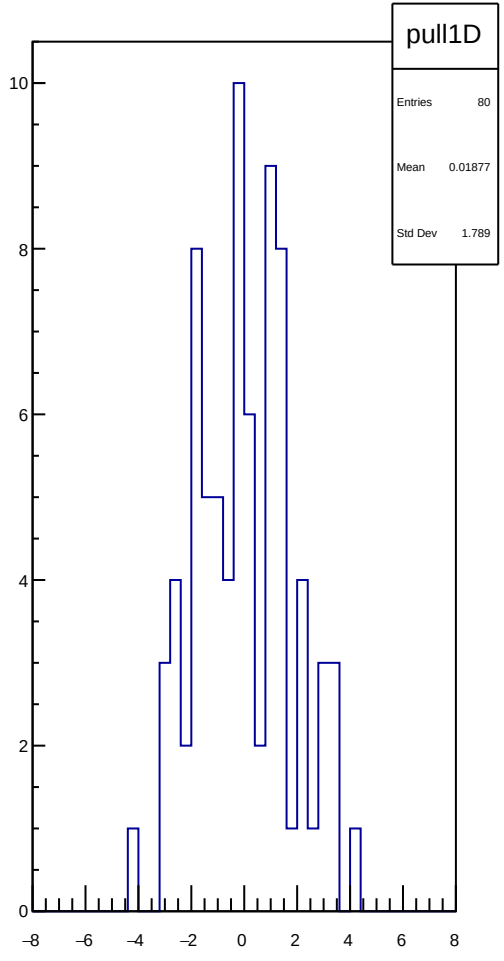

asym_bpm2i01WS_rms vs run
χ² / ndf 1.098e+04 / 79
p0 145.1 ± 0.1164
300
280
260
240
220
200
180
160
140
120

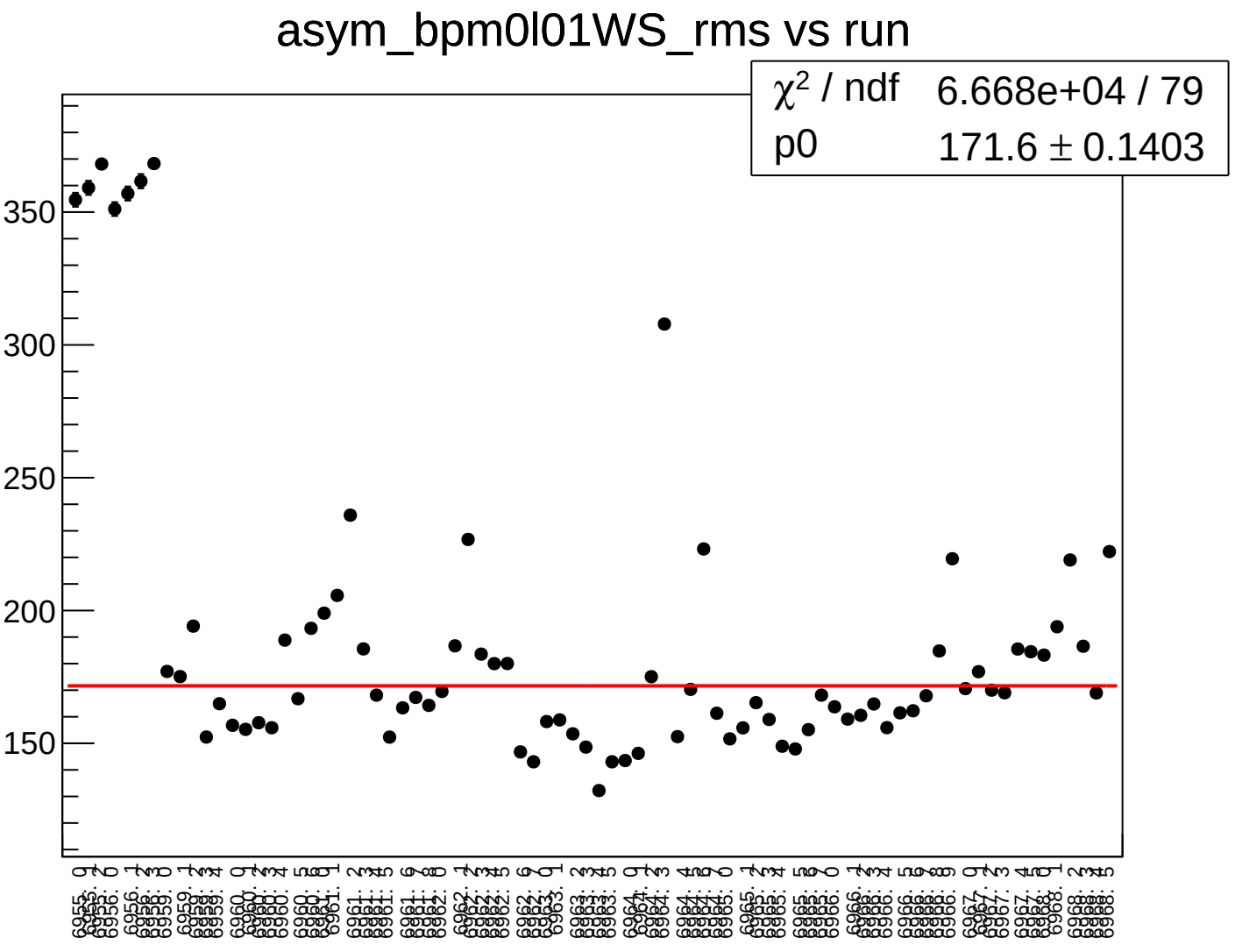

asym_bpm0i07WS_mean vs run
χ² / ndf 264.8 / 79
p0 −987.3 ± 194
pull
Entries 80
Mean 1092
Std Dev 1049

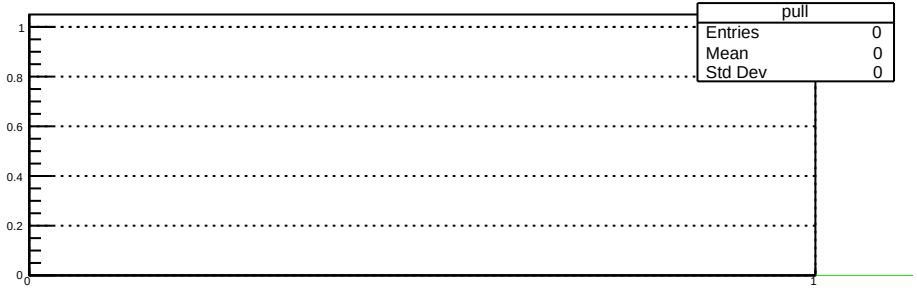

pull1D
Entries 80
Mean −0.02515
Std Dev 1.819

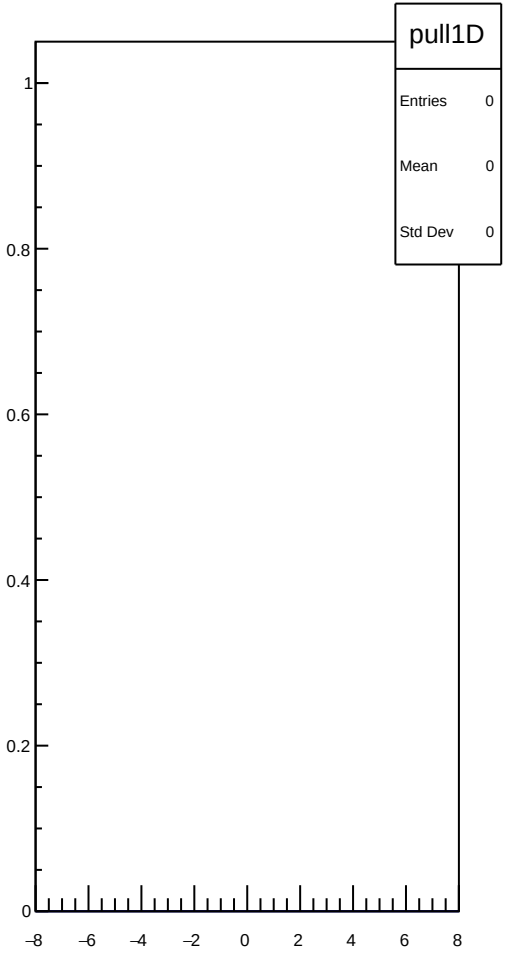

asym_bpm0i07WS_rms vs run
χ² / ndf 4.952e+04 / 79
p0 168.7 ± 0.1372
350
300
250
200
150

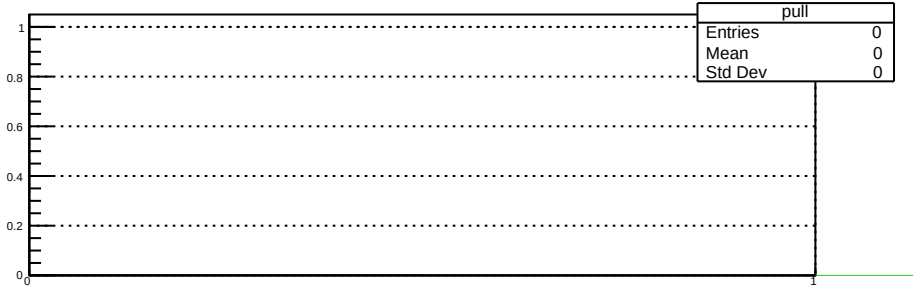

asym_bpm0l01WS_mean vs run
χ² / ndf 256.2 / 79
p0 −1121 ± 198.4
10000
5000
0
−5000
−10000
pull
Entries 80
Mean −1338
Std Dev 1380
4
3
2
1
0
−1
−2
−3
−4

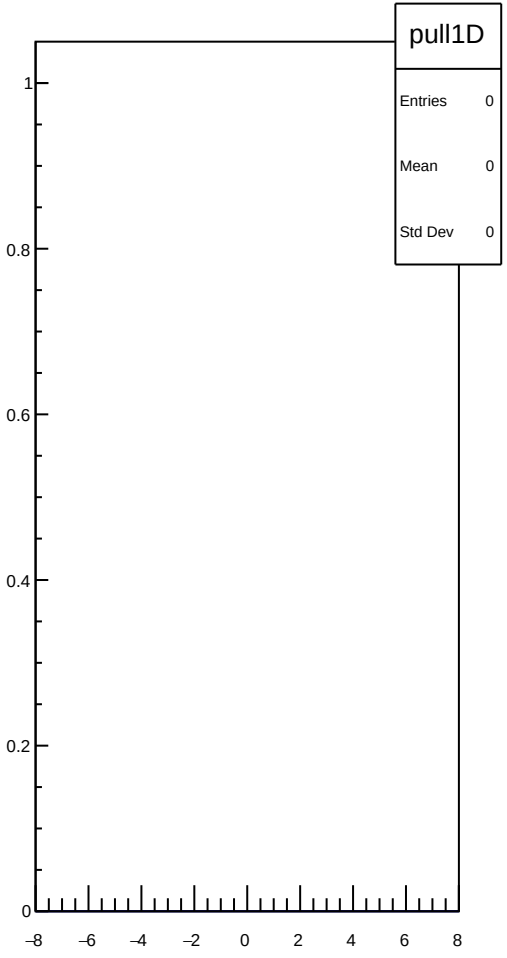

pull1D
Entries 80
Mean 0.01877
Std Dev 1.789
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

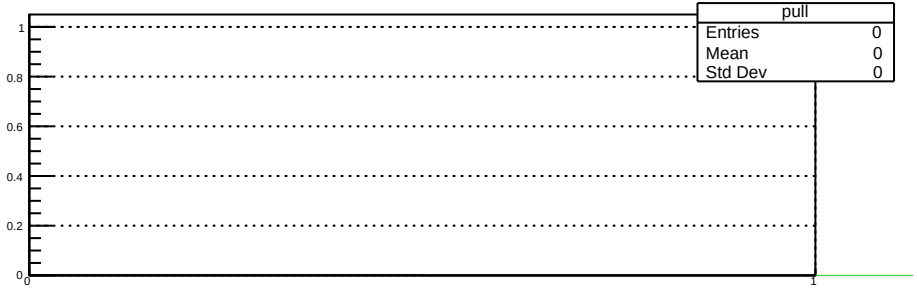

asym_bpm0l01WS_rms vs run
χ² / ndf 6.668e+04 / 79
p0 171.6 ± 0.1403
350
300
250
200
150

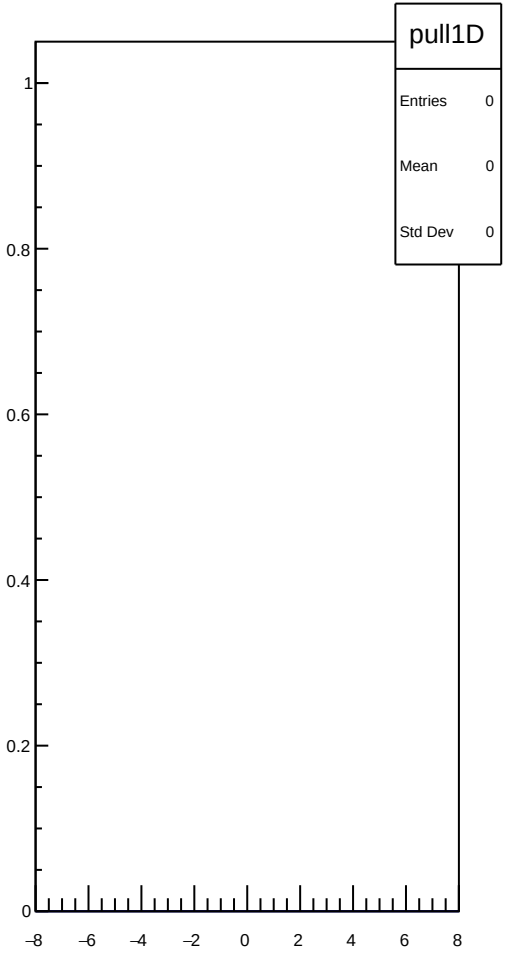

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

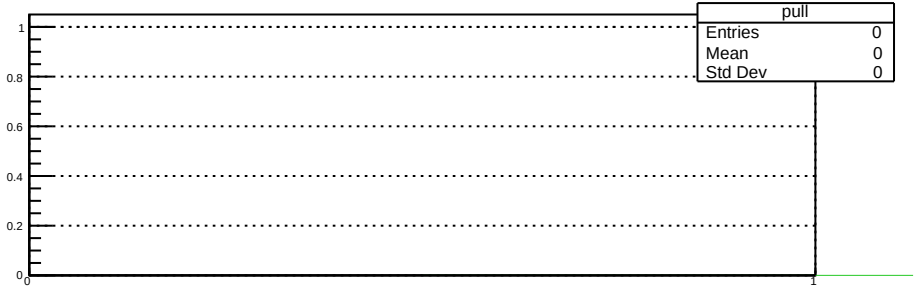

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

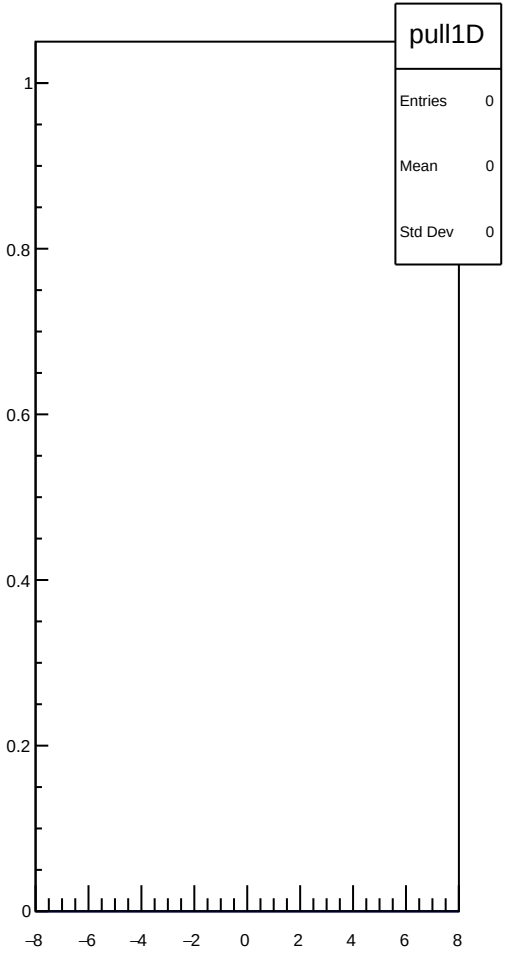

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

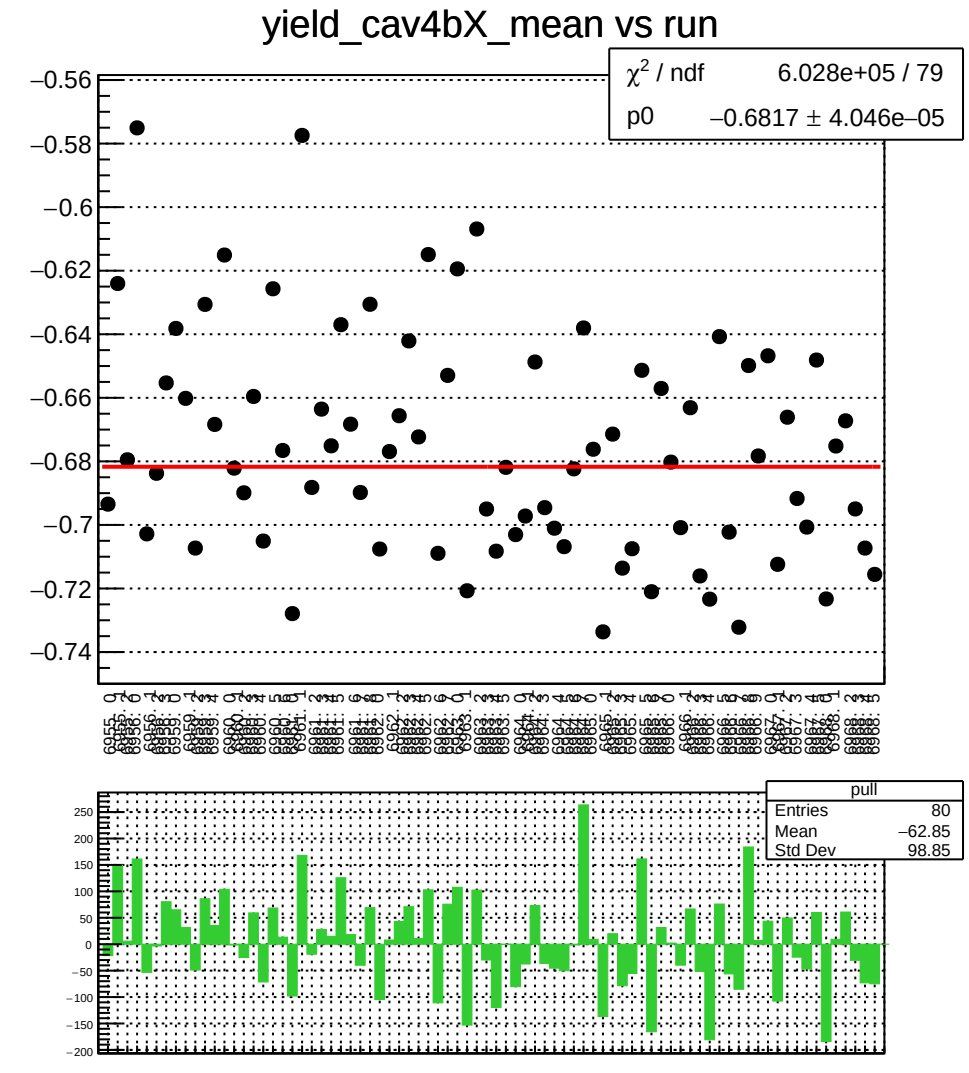

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

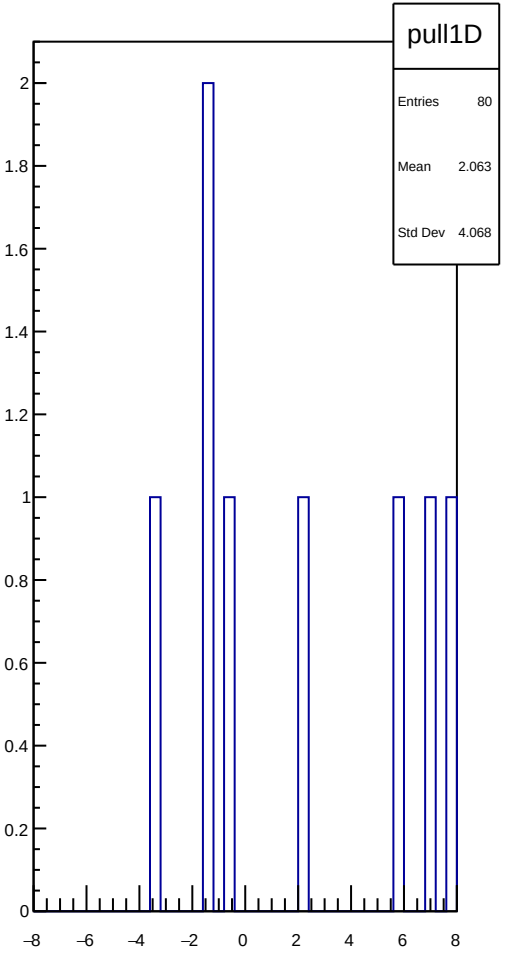

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

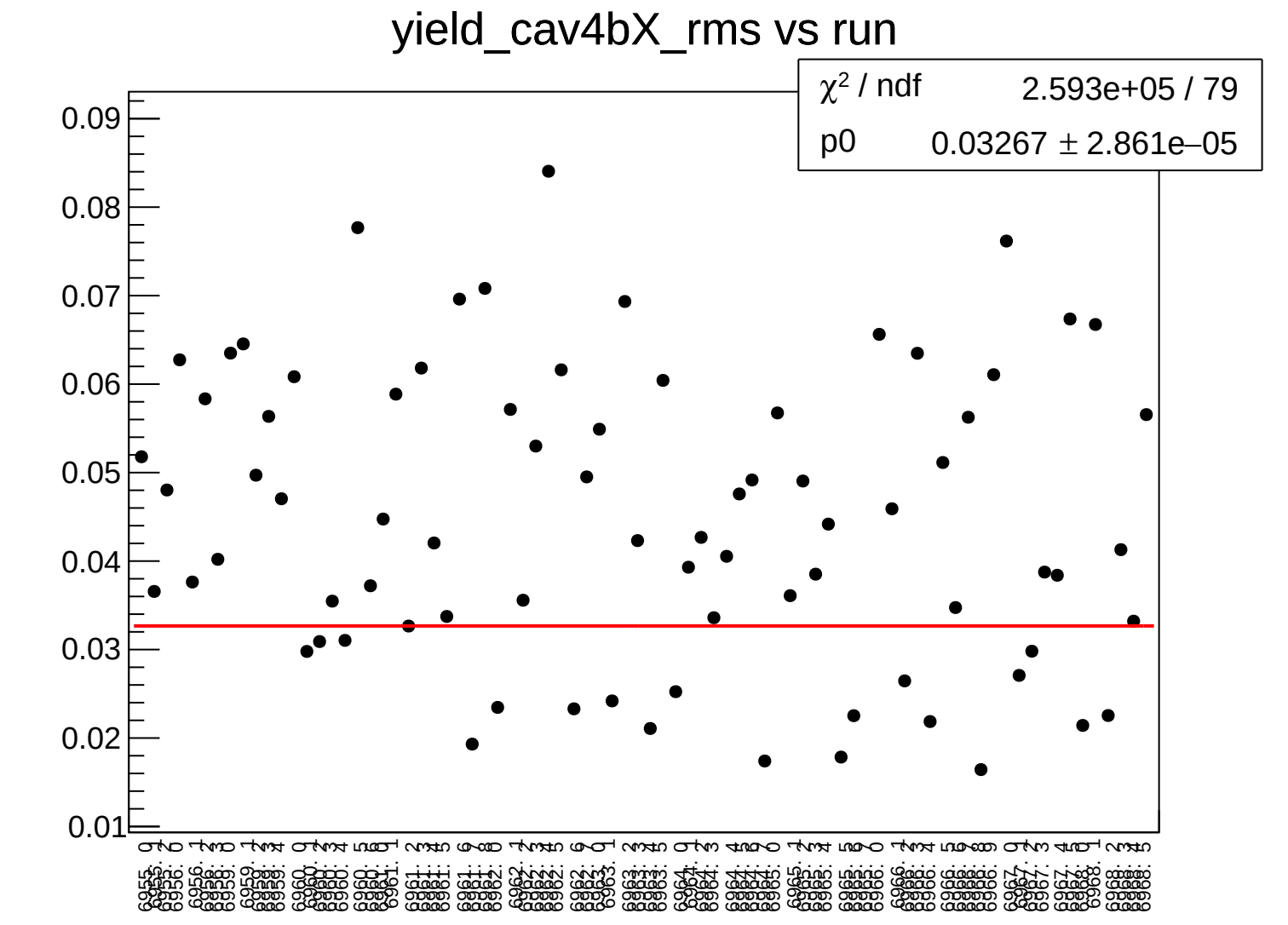

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

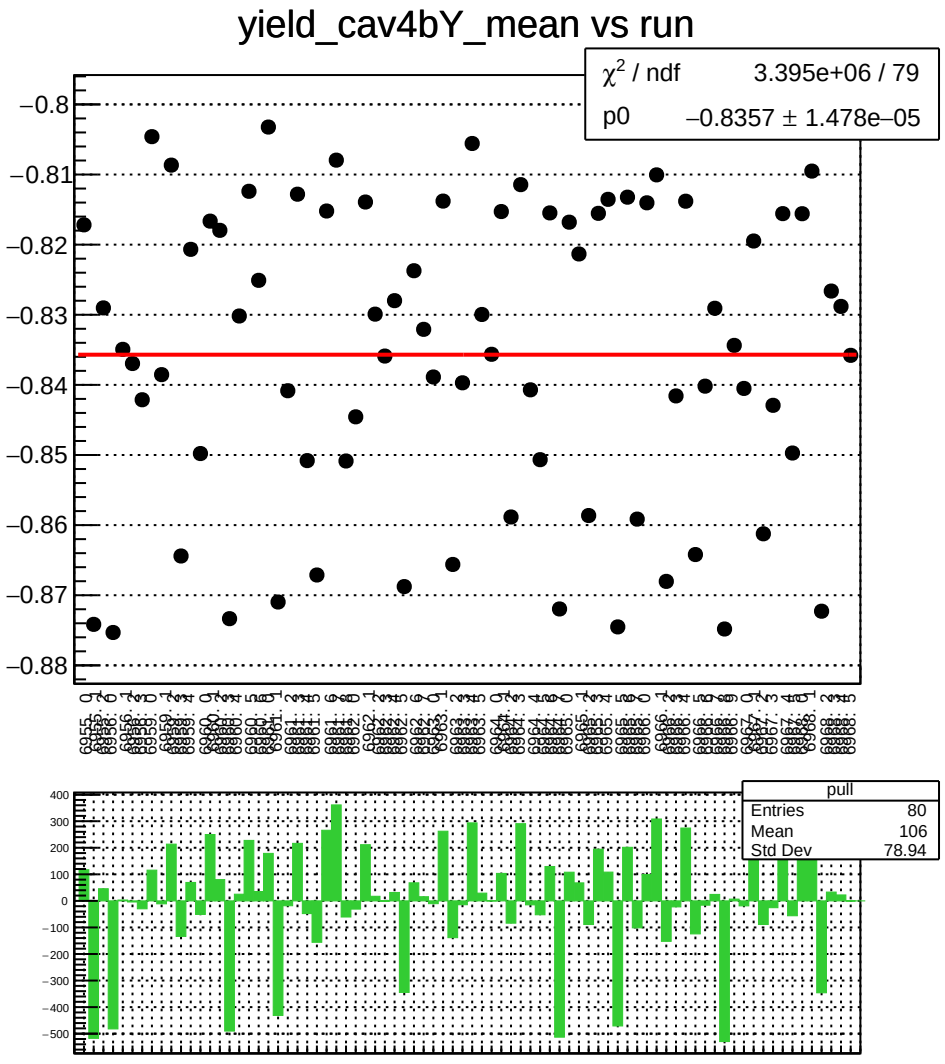

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

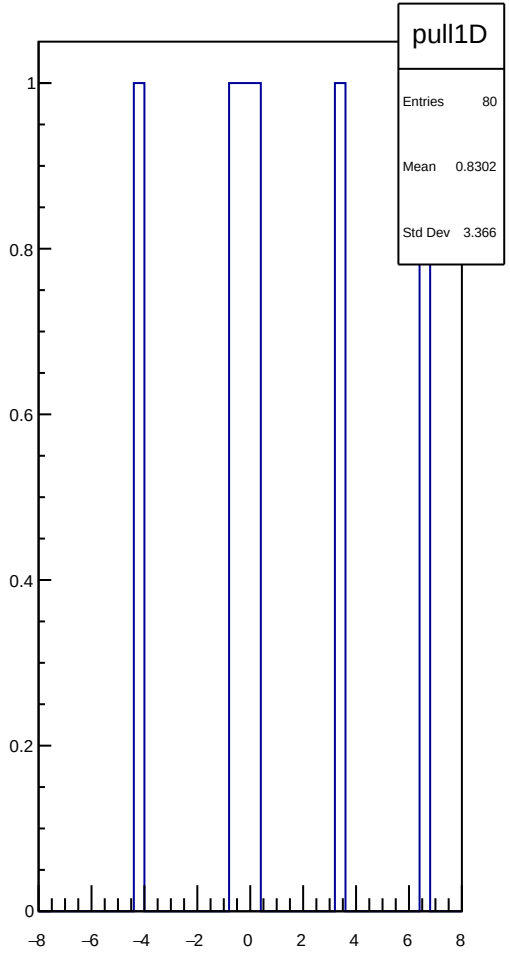

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

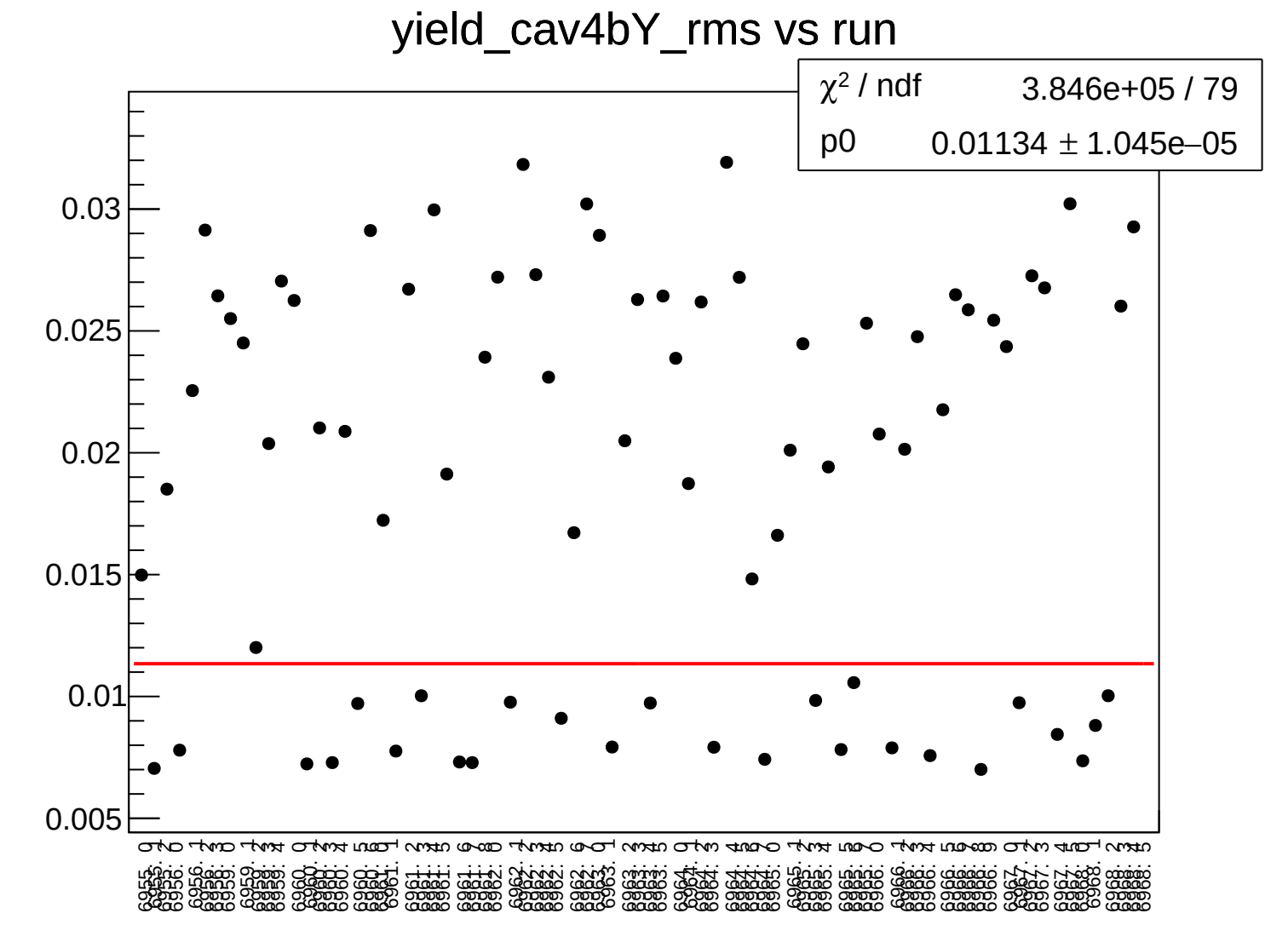

yield_cav4bX_mean vs run
χ² / ndf 6.028e+05 / 79
p0 −0.6817 ± 4.046e−05
pull
Entries 80
Mean −62.85
Std Dev 98.85

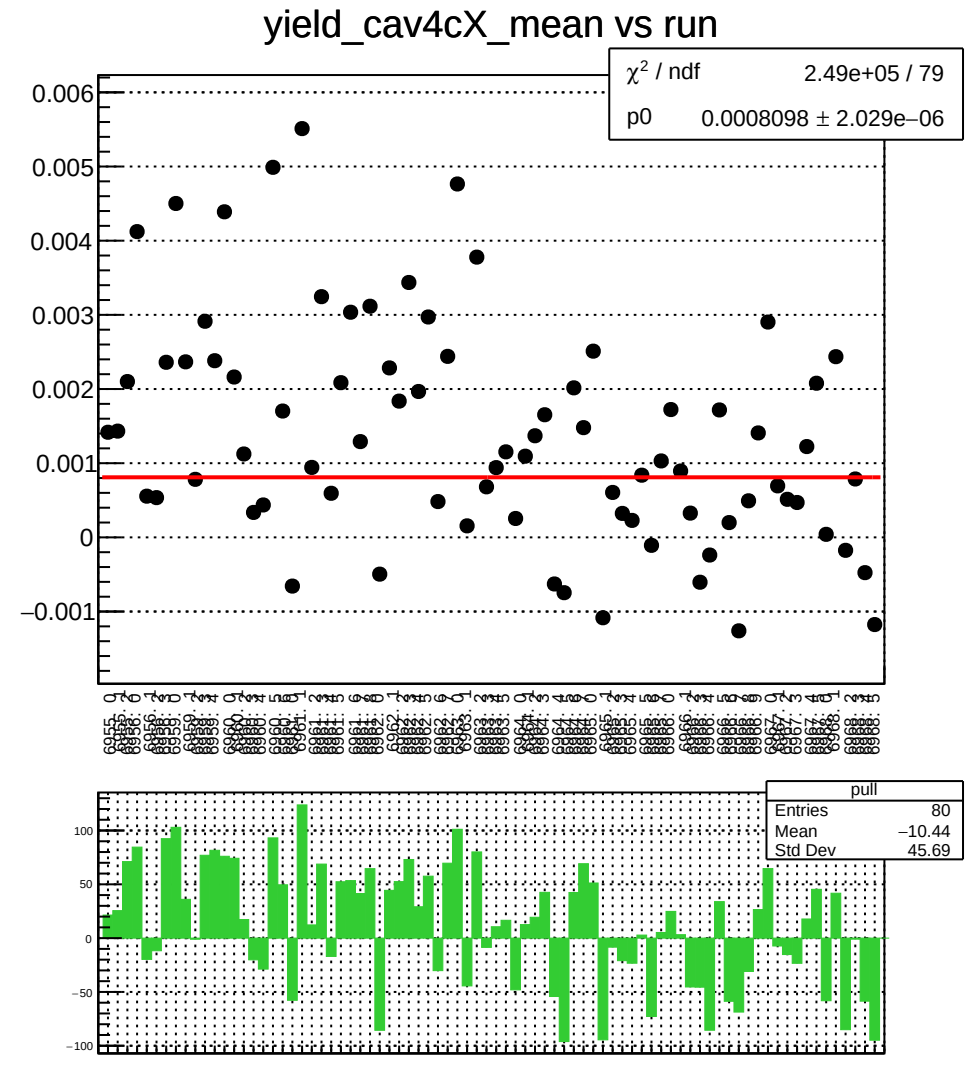

pull1D
Entries 80
Mean 2.063
Std Dev 4.068

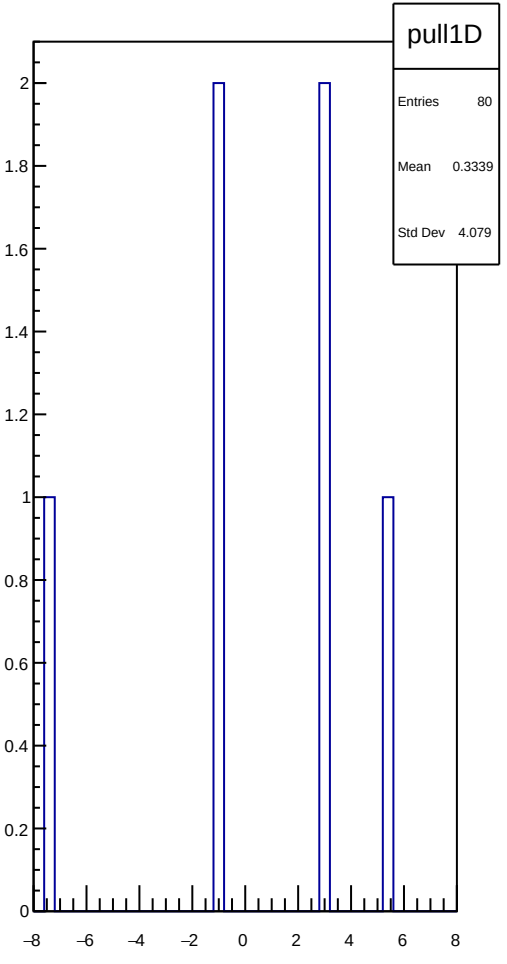

yield_cav4bX_rms vs run
χ² / ndf 2.593e+05 / 79
p0 0.03267 ± 2.861e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

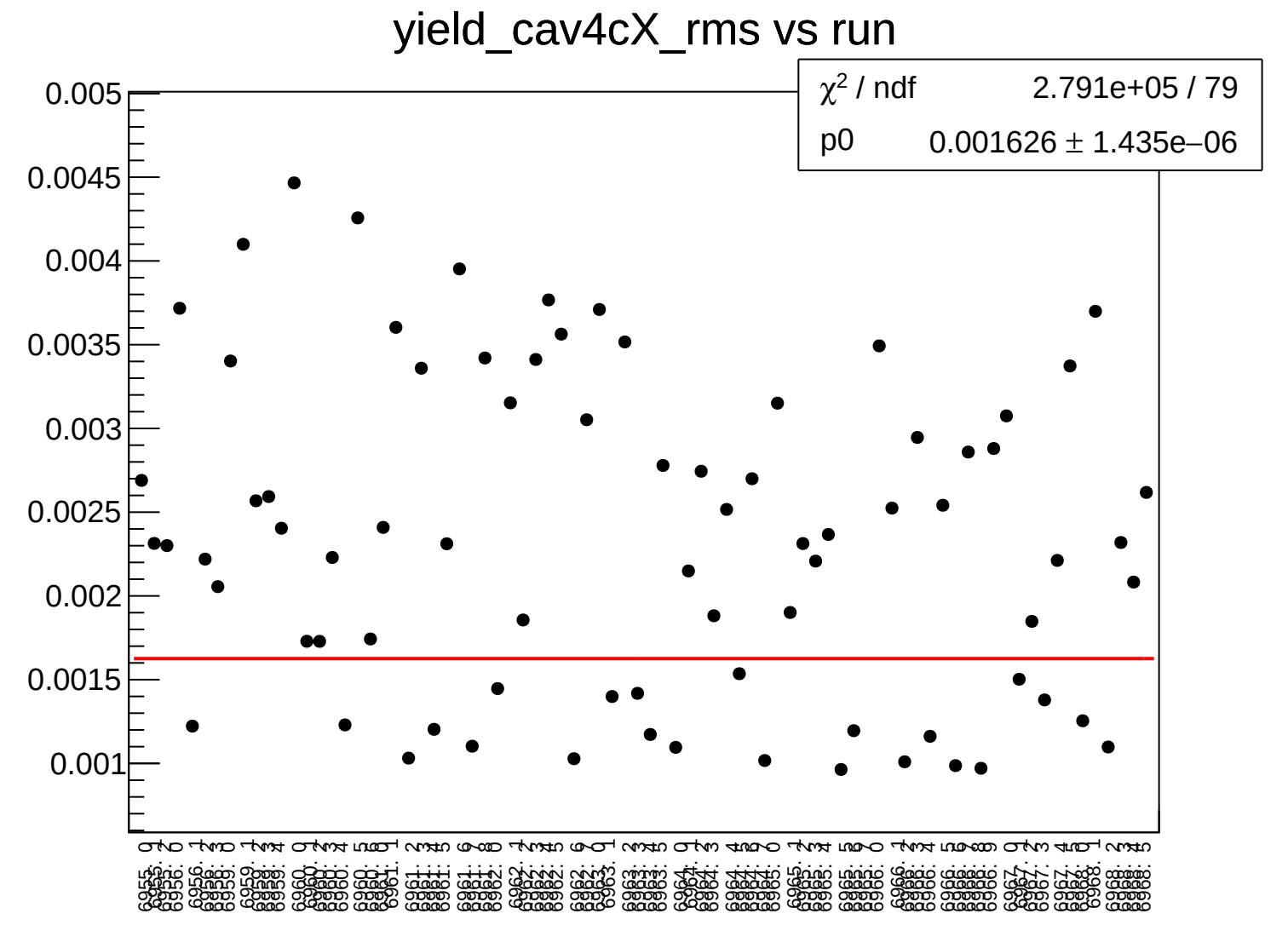

yield_cav4bY_mean vs run
χ² / ndf 3.395e+06 / 79
p0 −0.8357 ± 1.478e−05
pull
Entries 80
Mean 106
Std Dev 78.94

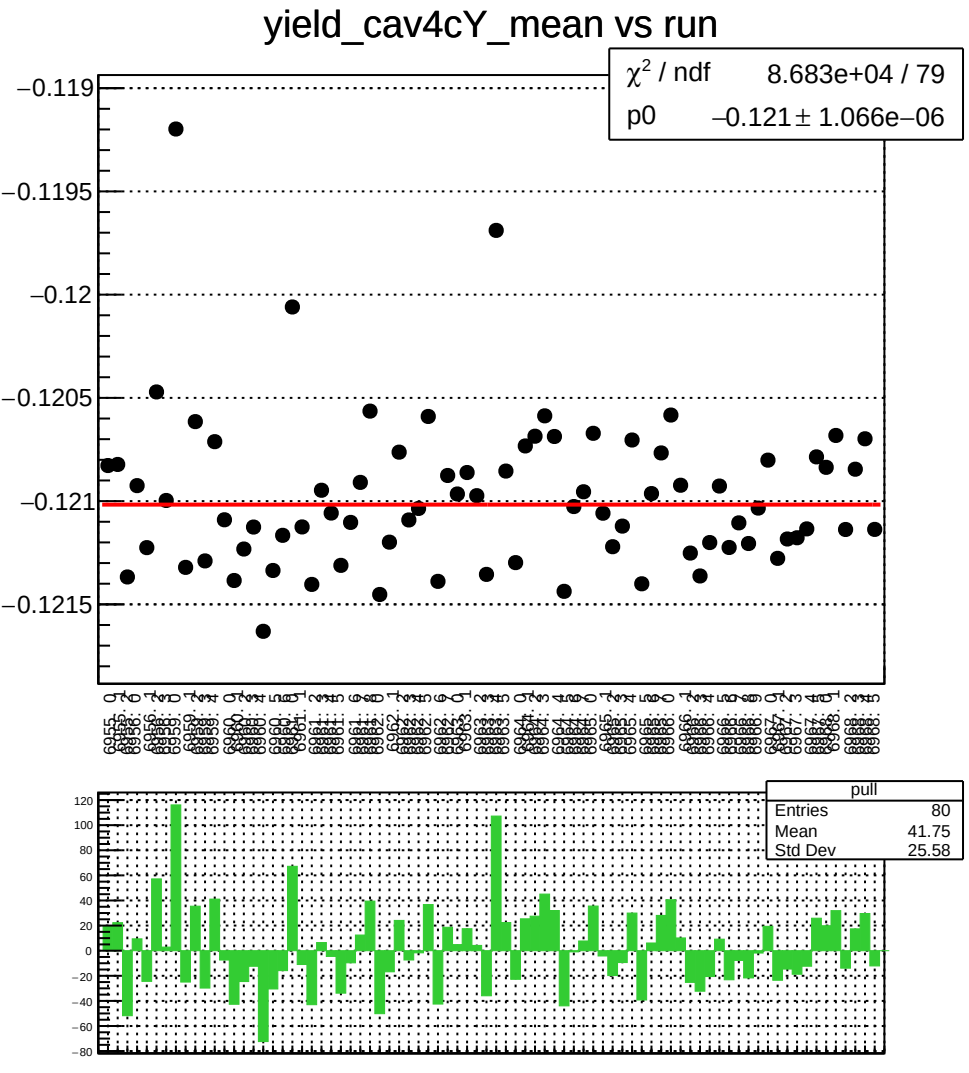

pull1D
Entries 80
Mean 0.8302
Std Dev 3.366

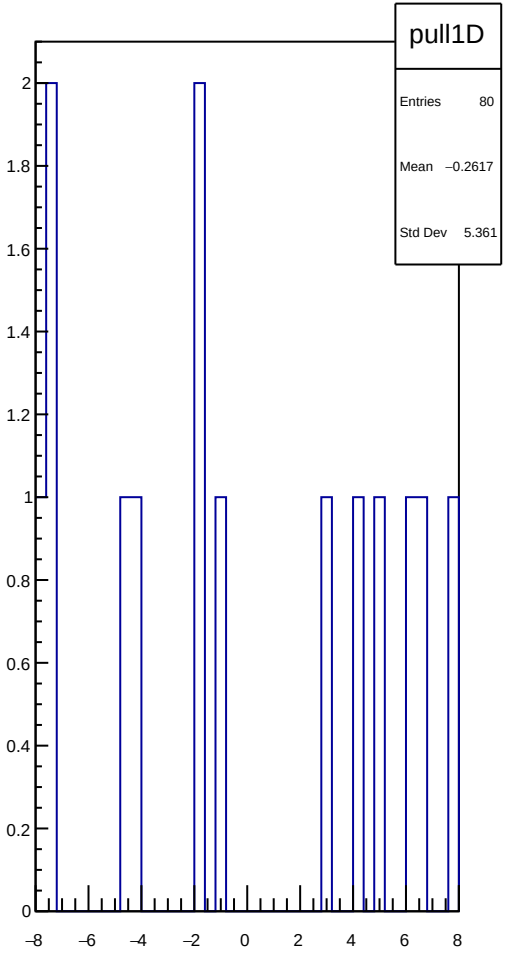

yield_cav4bY_rms vs run
χ² / ndf 3.846e+05 / 79
p0 0.01134 ± 1.045e−05
0.03
0.025
0.02
0.015
0.01
0.005

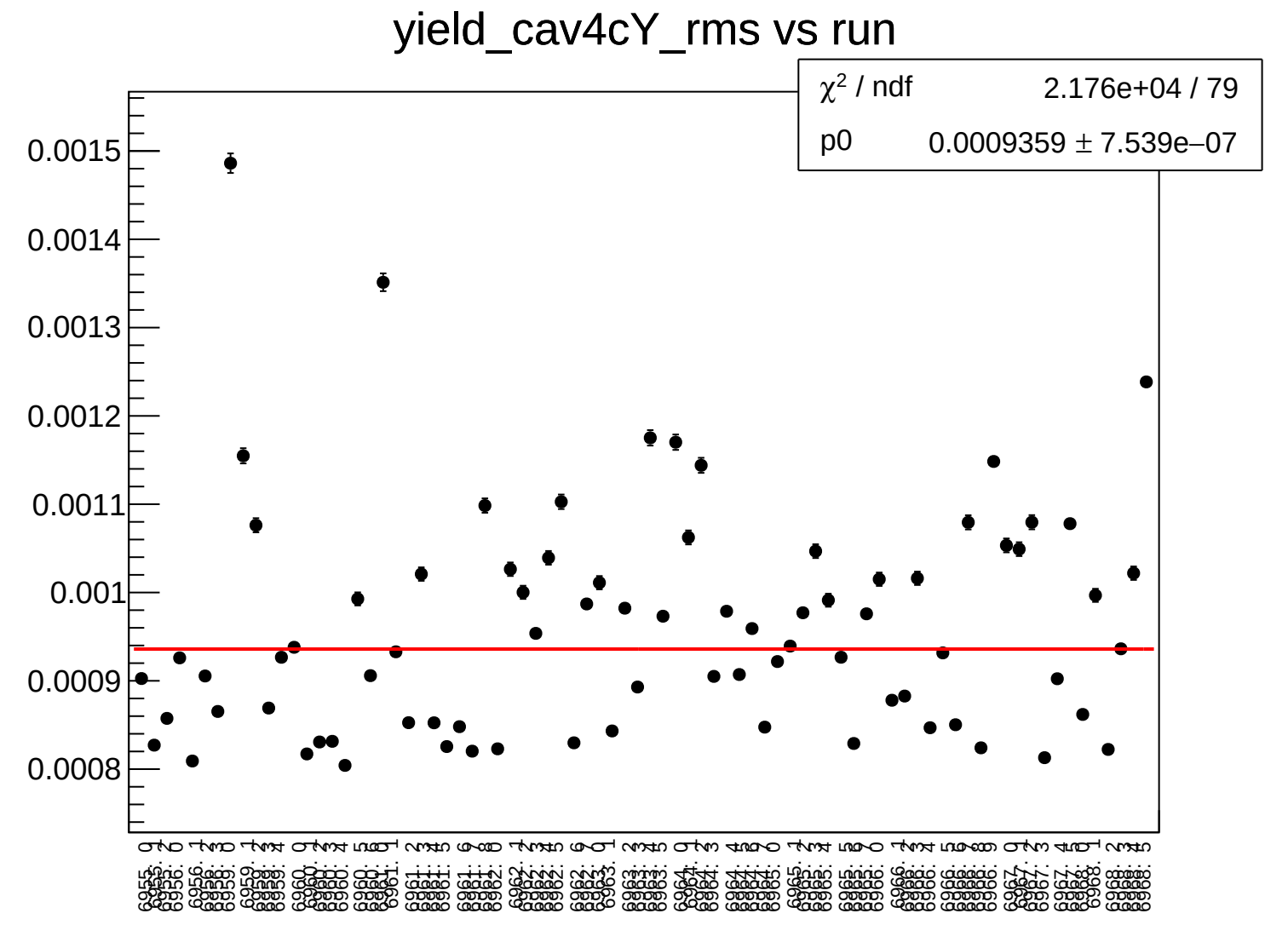

yield_cav4cX_mean vs run
χ² / ndf 2.49e+05 / 79
p0 0.0008098 ± 2.029e−06
0.006
0.005
0.004
0.003
0.002
0.001
0
−0.001
pull
Entries 80
Mean −10.44
Std Dev 45.69
100
50
0
−50
−100

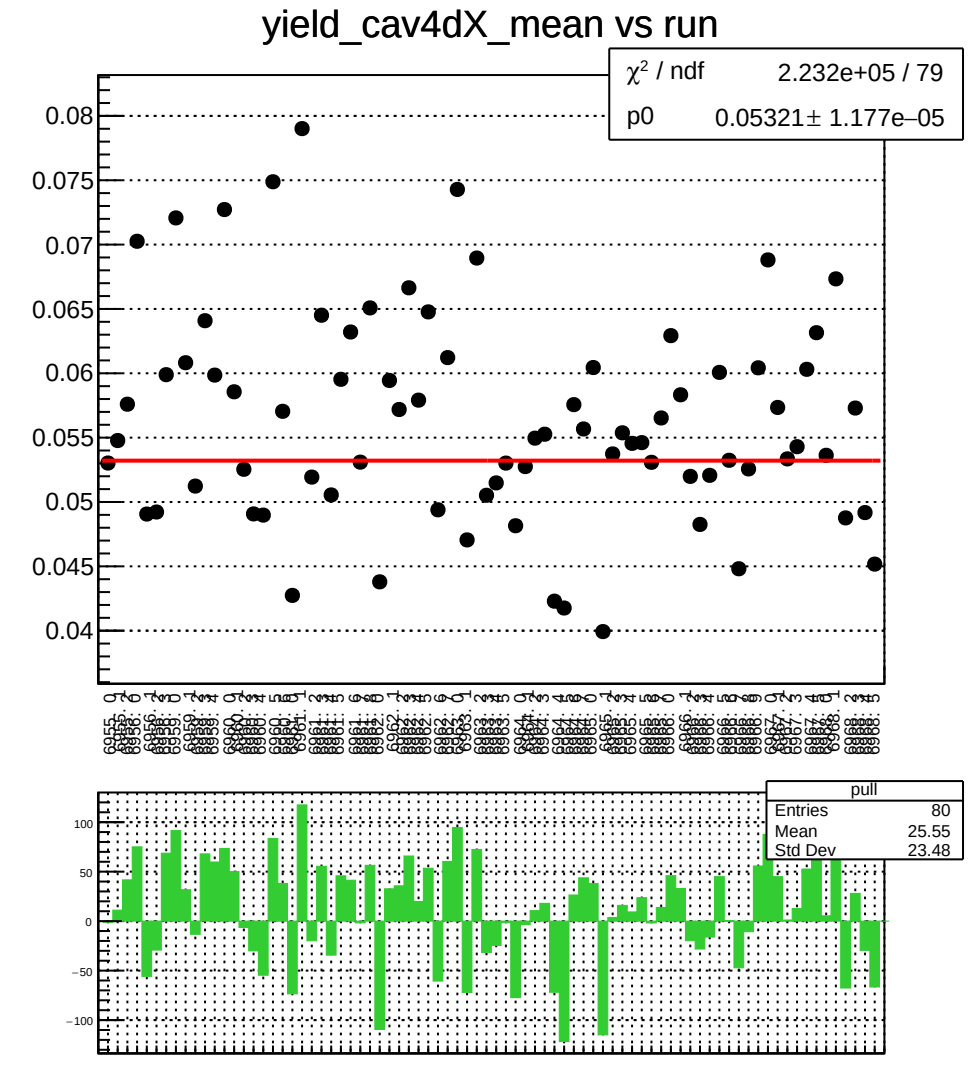

pull1D
Entries 80
Mean 0.3339
Std Dev 4.079
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

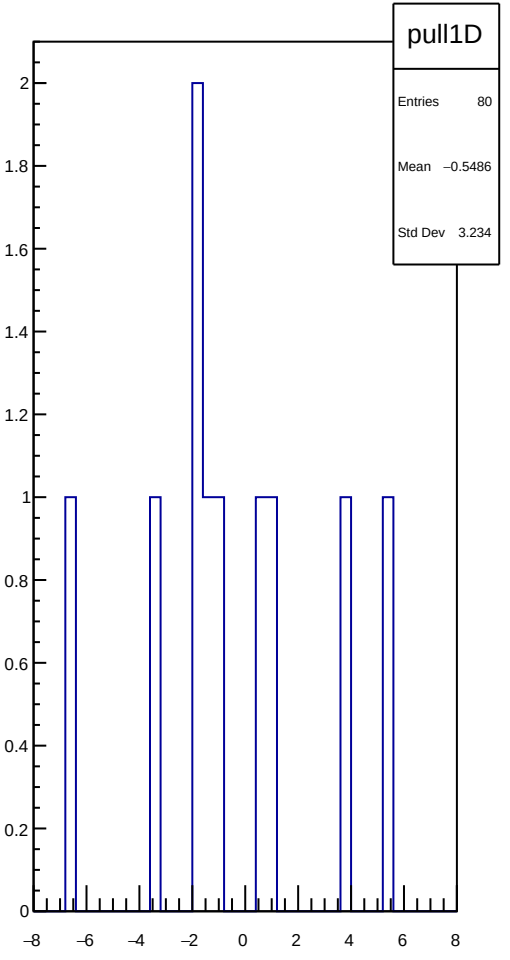

yield_cav4cX_rms vs run
χ² / ndf 2.791e+05 / 79
p0 0.001626 ± 1.435e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

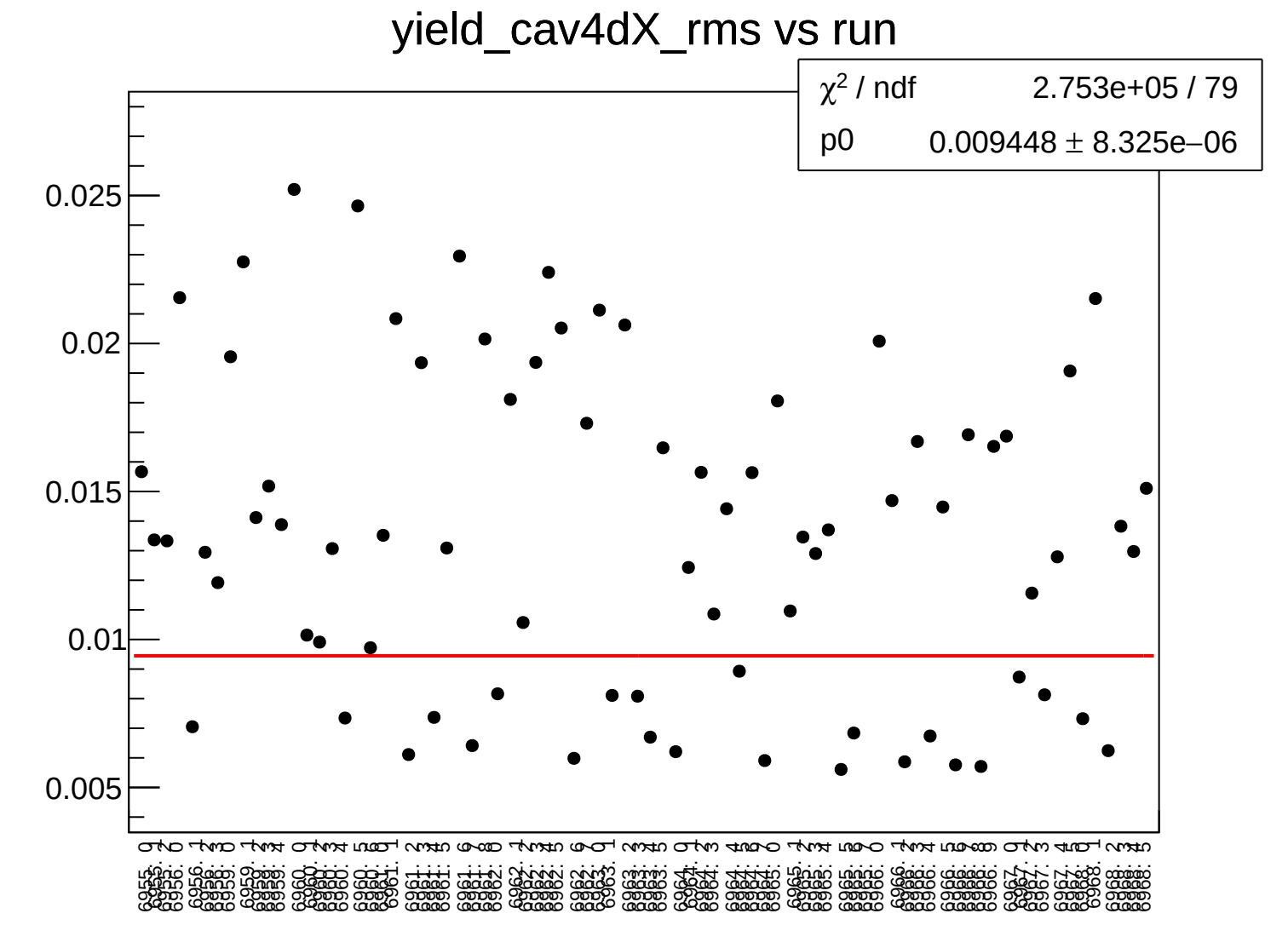

yield_cav4cY_mean vs run
χ² / ndf 8.683e+04 / 79
p0 −0.121 ± 1.066e−06
−0.119
−0.1195
−0.12
−0.1205
−0.121
−0.1215
pull
Entries 80
Mean 41.75
Std Dev 25.58
120
100
80
60
40
20
0
−20
−40
−60
−80

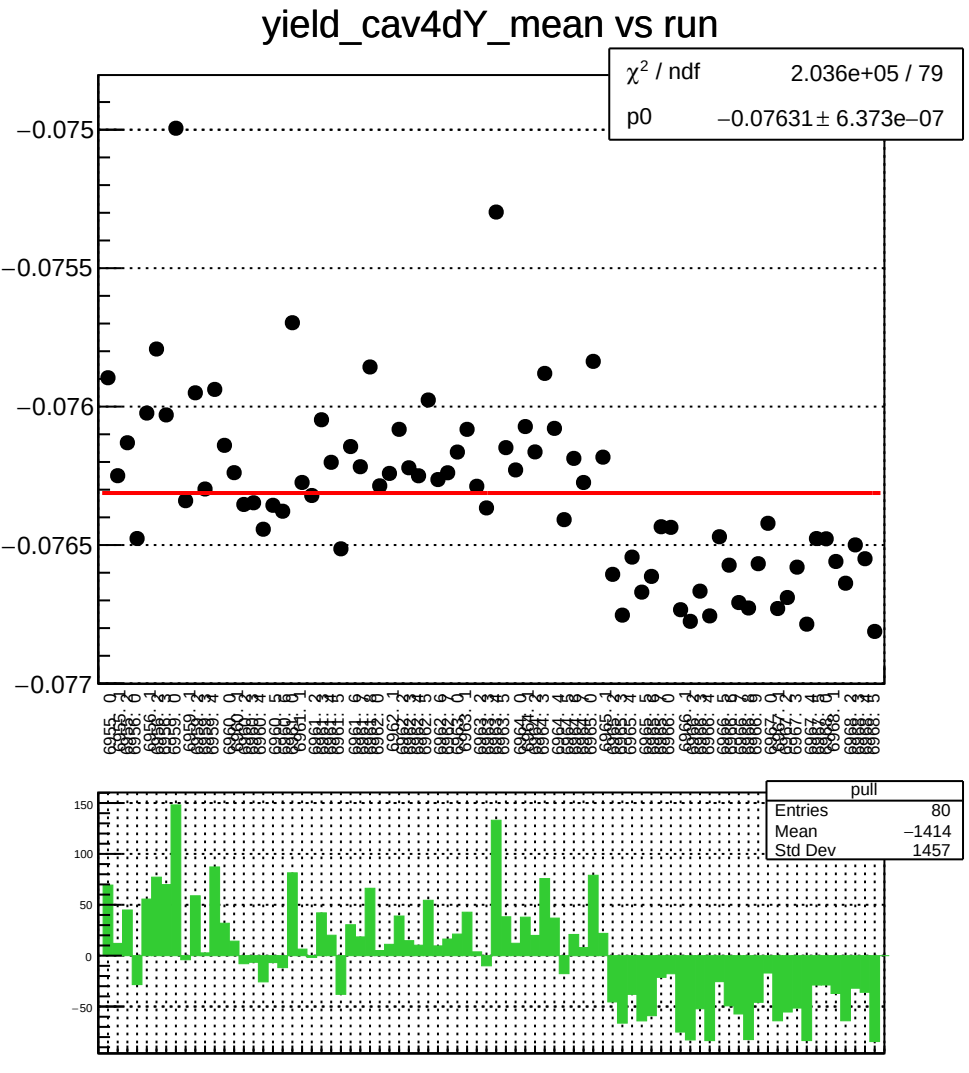

pull1D
Entries 80
Mean −0.2617
Std Dev 5.361
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

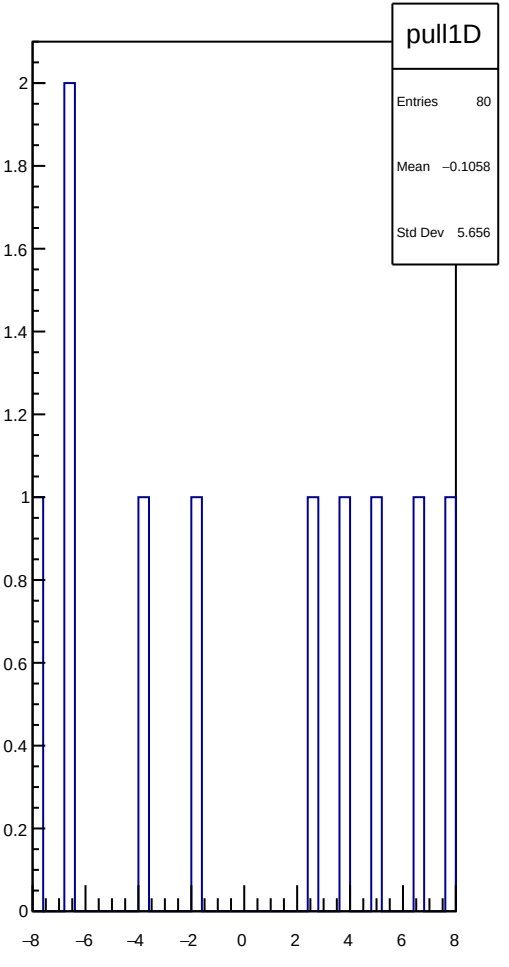

yield_cav4cY_rms vs run
χ² / ndf 2.176e+04 / 79
p0 0.0009359 ± 7.539e−07
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008

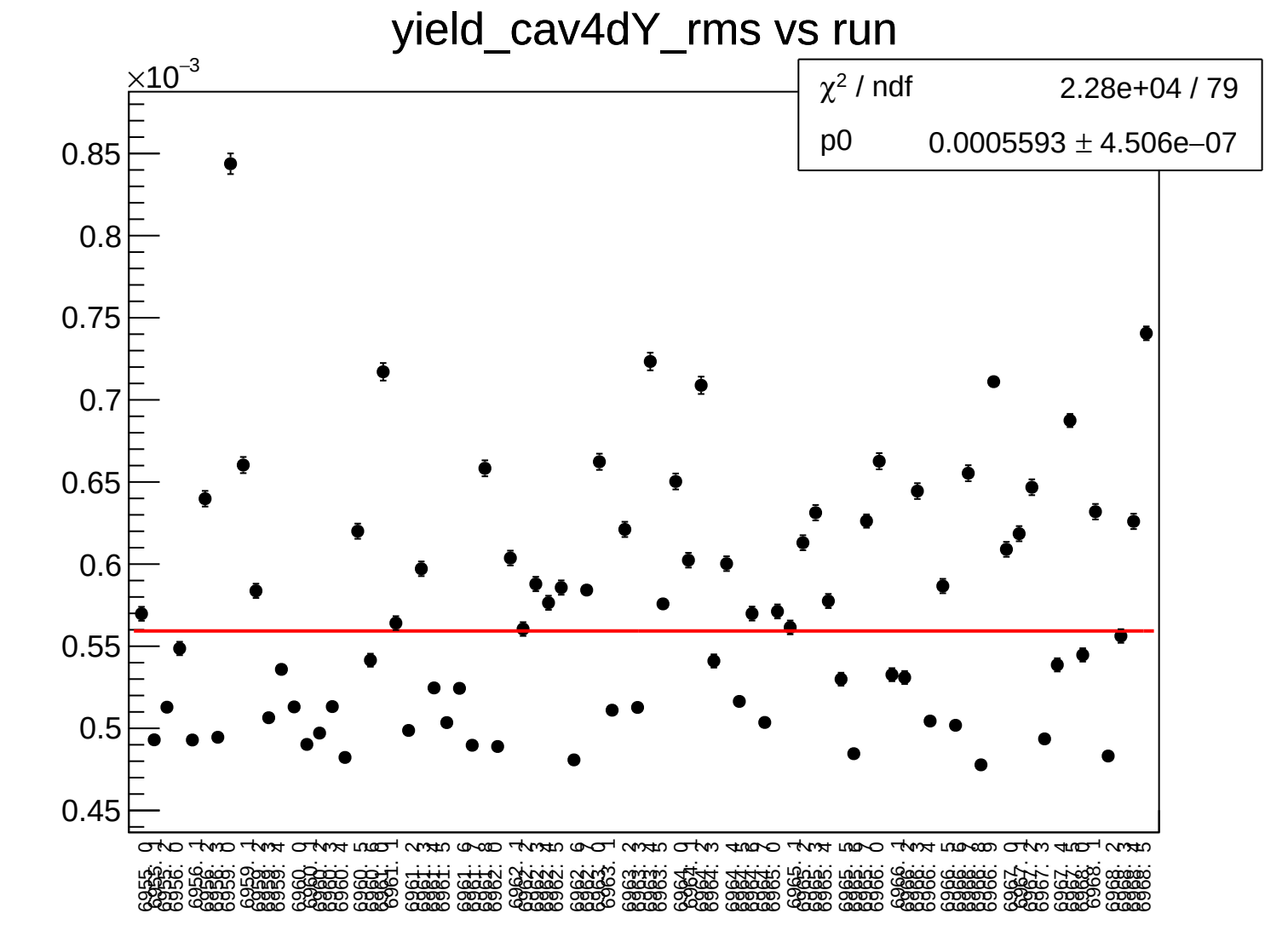

yield_cav4dX_mean vs run
χ² / ndf 2.232e+05 / 79
p0 0.05321± 1.177e−05
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
pull
Entries 80
Mean 25.55
Std Dev 23.48
100
50
0
−50
−100

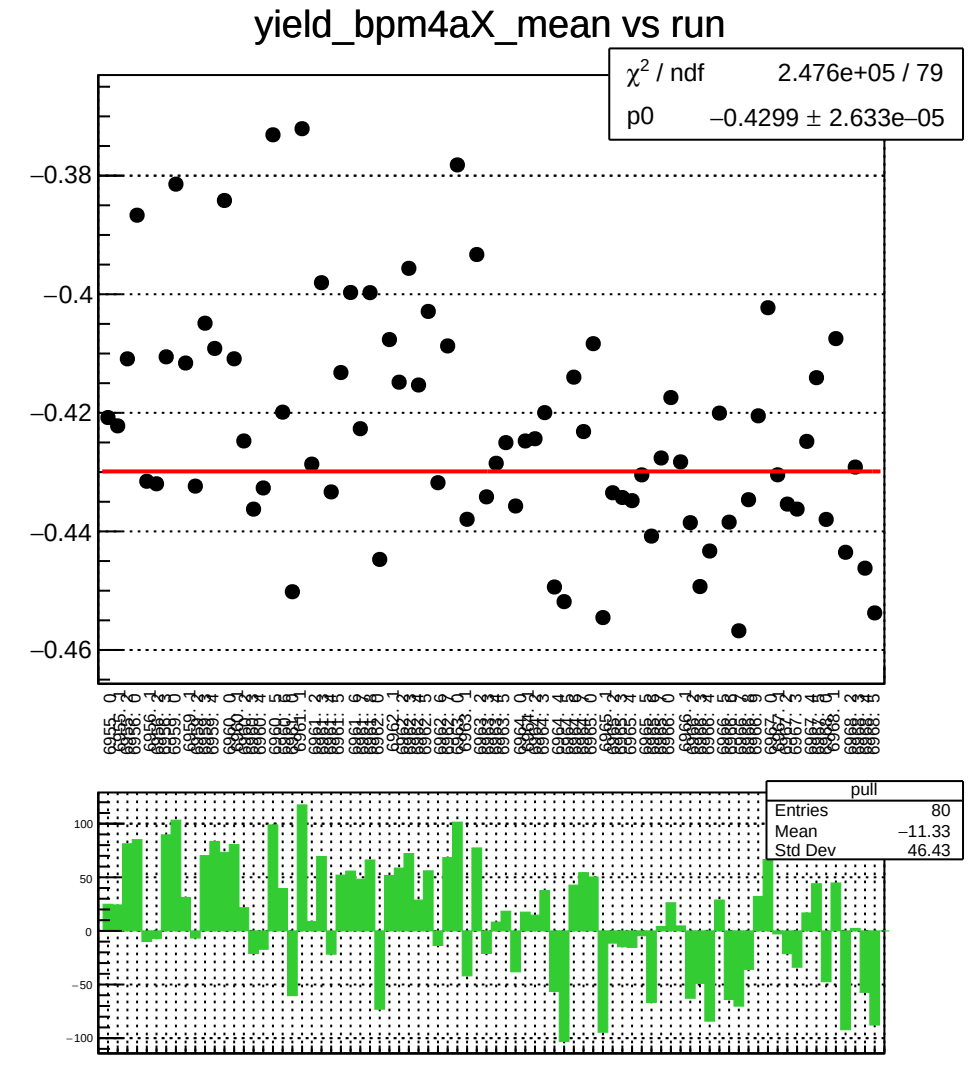

pull1D
Entries 80
Mean −0.5486
Std Dev 3.234
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

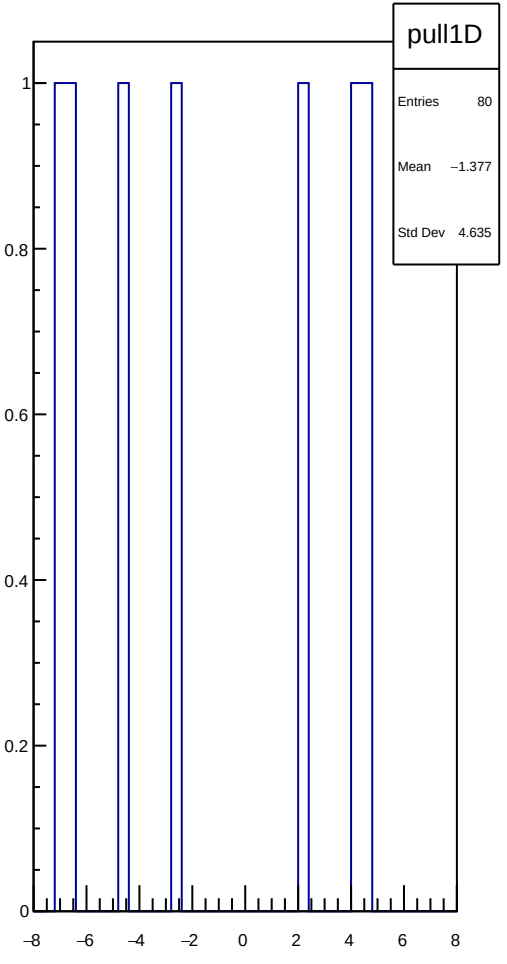

yield_cav4dX_rms vs run
χ² / ndf 2.753e+05 / 79
p0 0.009448 ± 8.325e−06
0.025
0.02
0.015
0.01
0.005

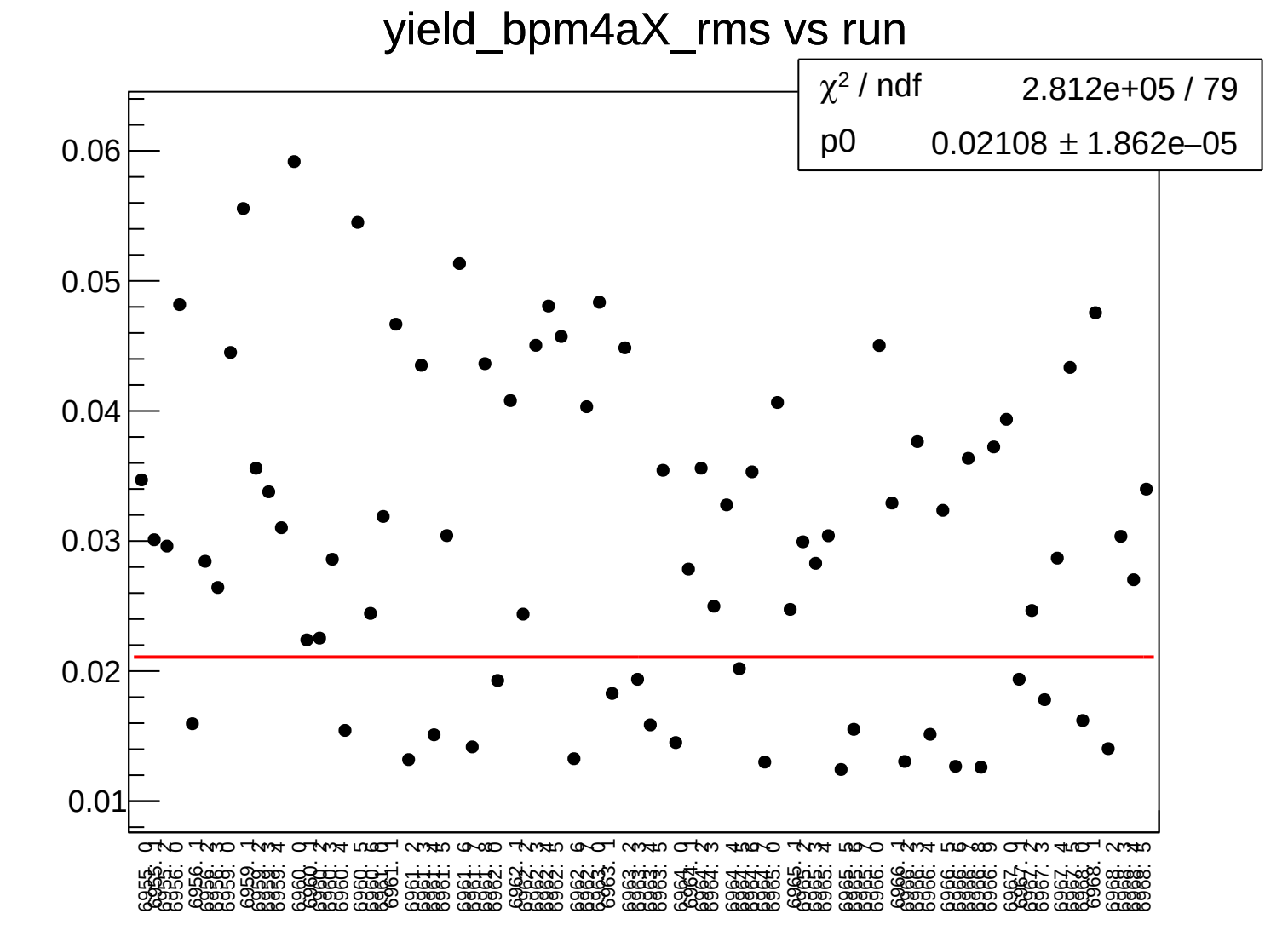

yield_cav4dY_mean vs run
χ² / ndf 2.036e+05 / 79
p0 −0.07631 ± 6.373e−07
−0.075
−0.0755
−0.076
−0.0765
−0.077
pull
Entries 80
Mean −1414
Std Dev 1457
150
100
50
0
−50

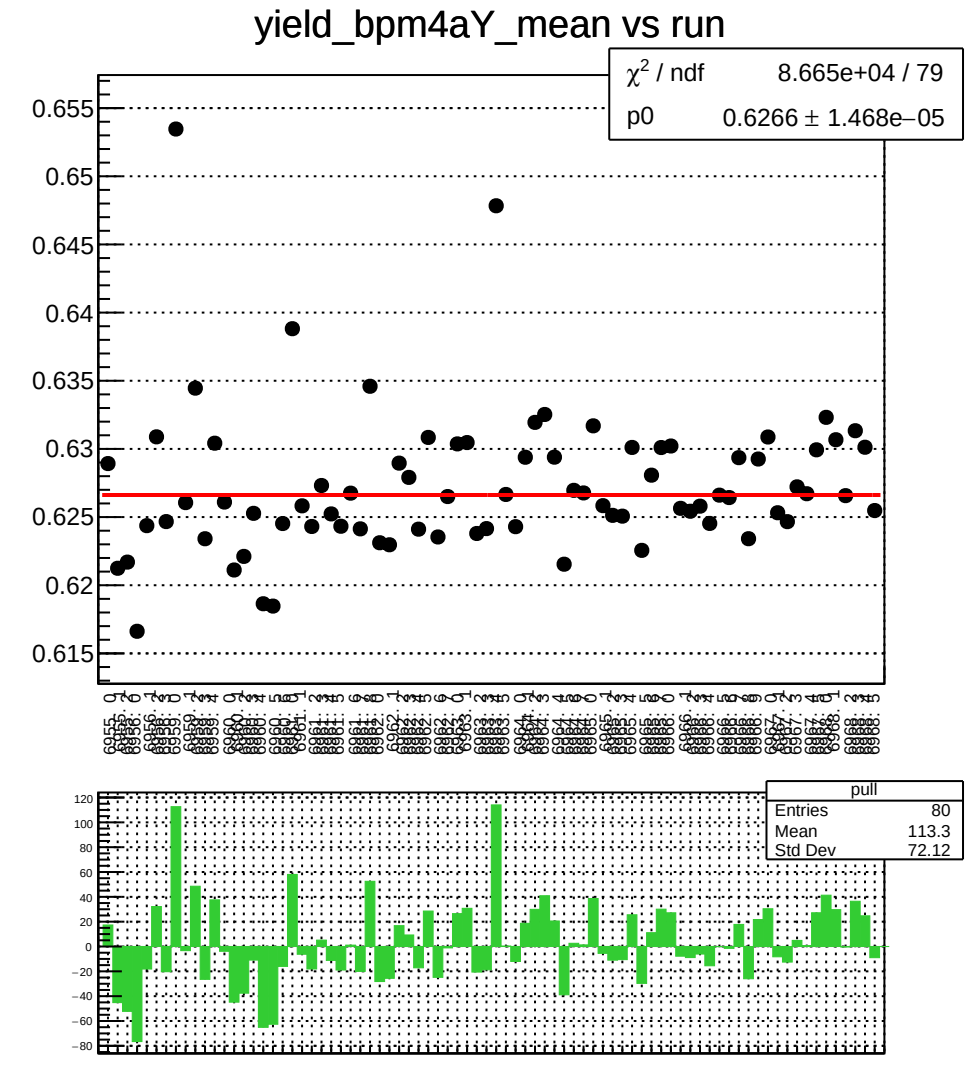

pull1D
Entries 80
Mean −0.1058
Std Dev 5.656
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

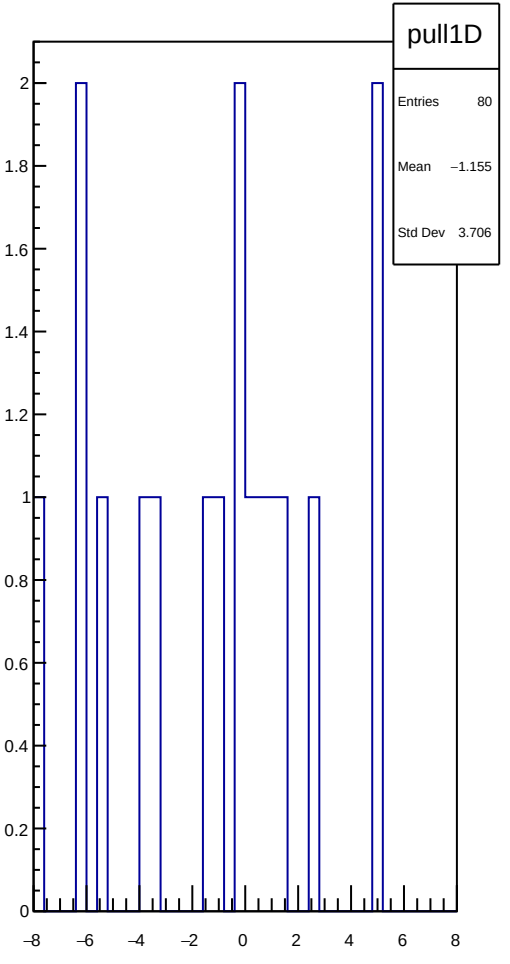

yield_cav4dY_rms vs run
×10⁻³
χ² / ndf 2.28e+04 / 79
p0 0.0005593 ± 4.506e−07
0.85
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

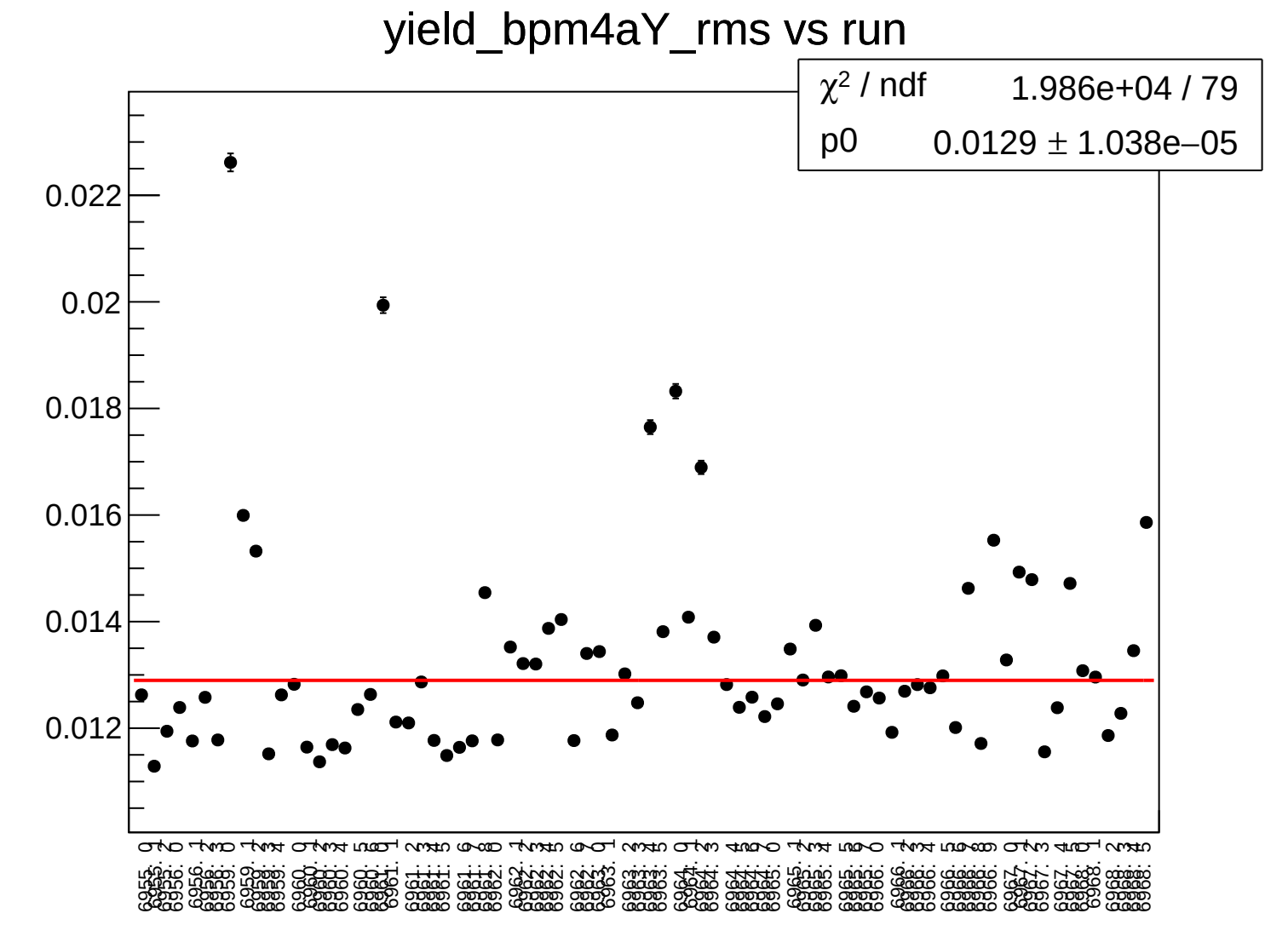

yield_bpm4aX_mean vs run
χ² / ndf 2.476e+05 / 79
p0 −0.4299 ± 2.633e−05
−0.38
−0.4
−0.42
−0.44
−0.46
pull
Entries 80
Mean −11.33
Std Dev 46.43
100
50
0
−50
−100

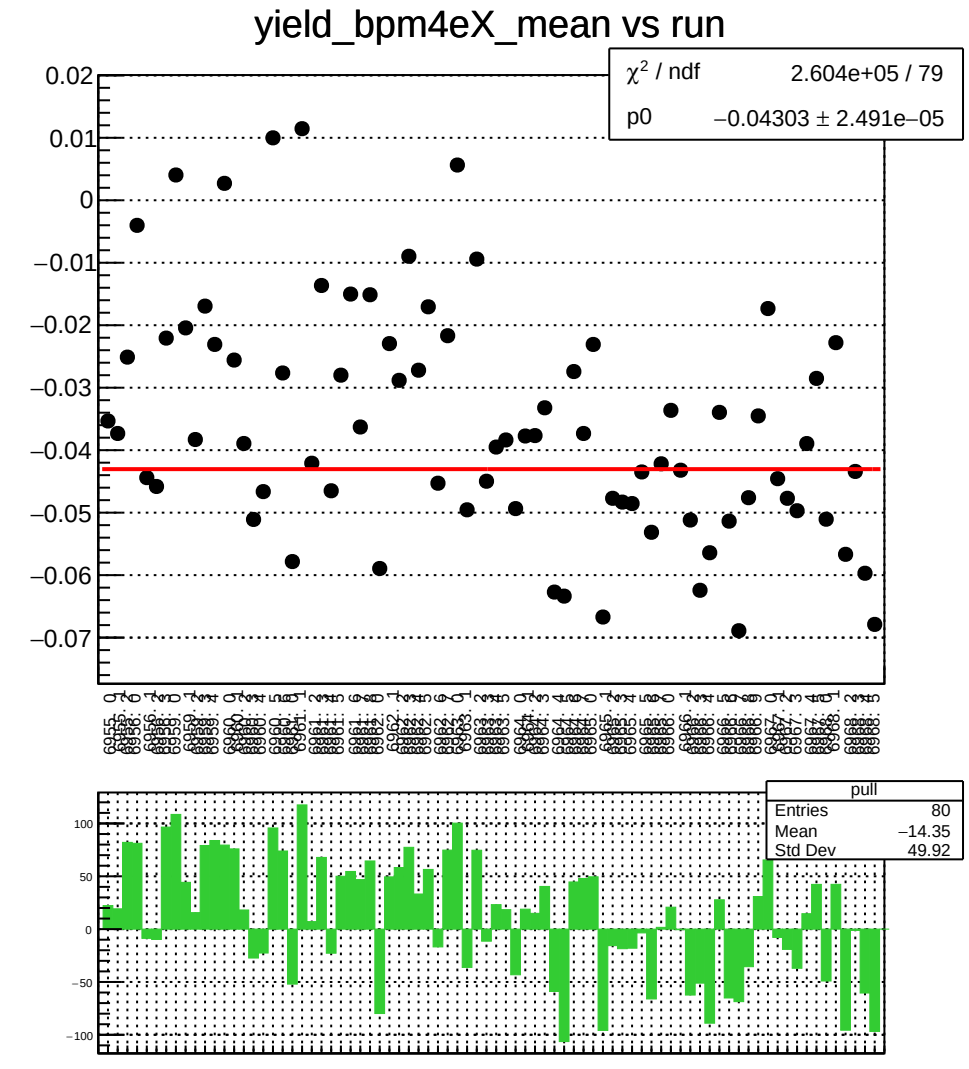

pull1D
Entries 80
Mean −1.377
Std Dev 4.635
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

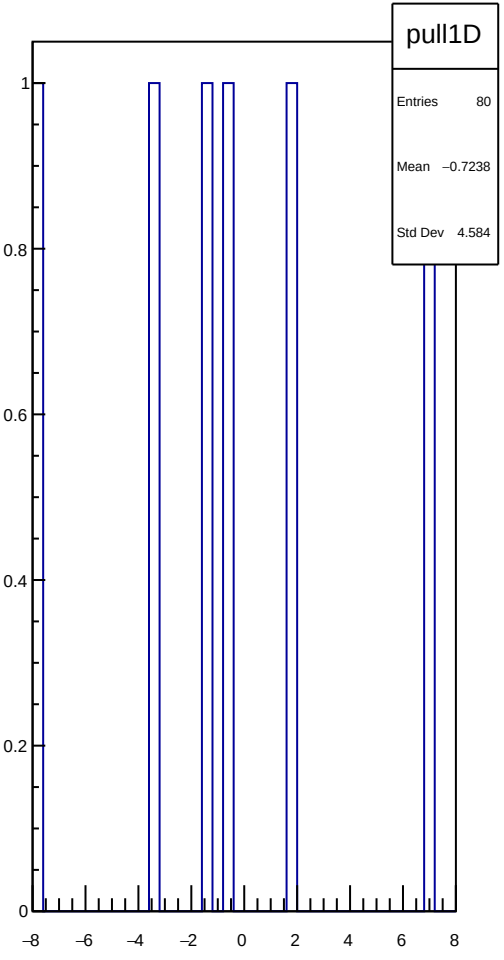

yield_bpm4aX_rms vs run
χ² / ndf 2.812e+05 / 79
p0 0.02108 ± 1.862e–05
0.06
0.05
0.04
0.03
0.02
0.01

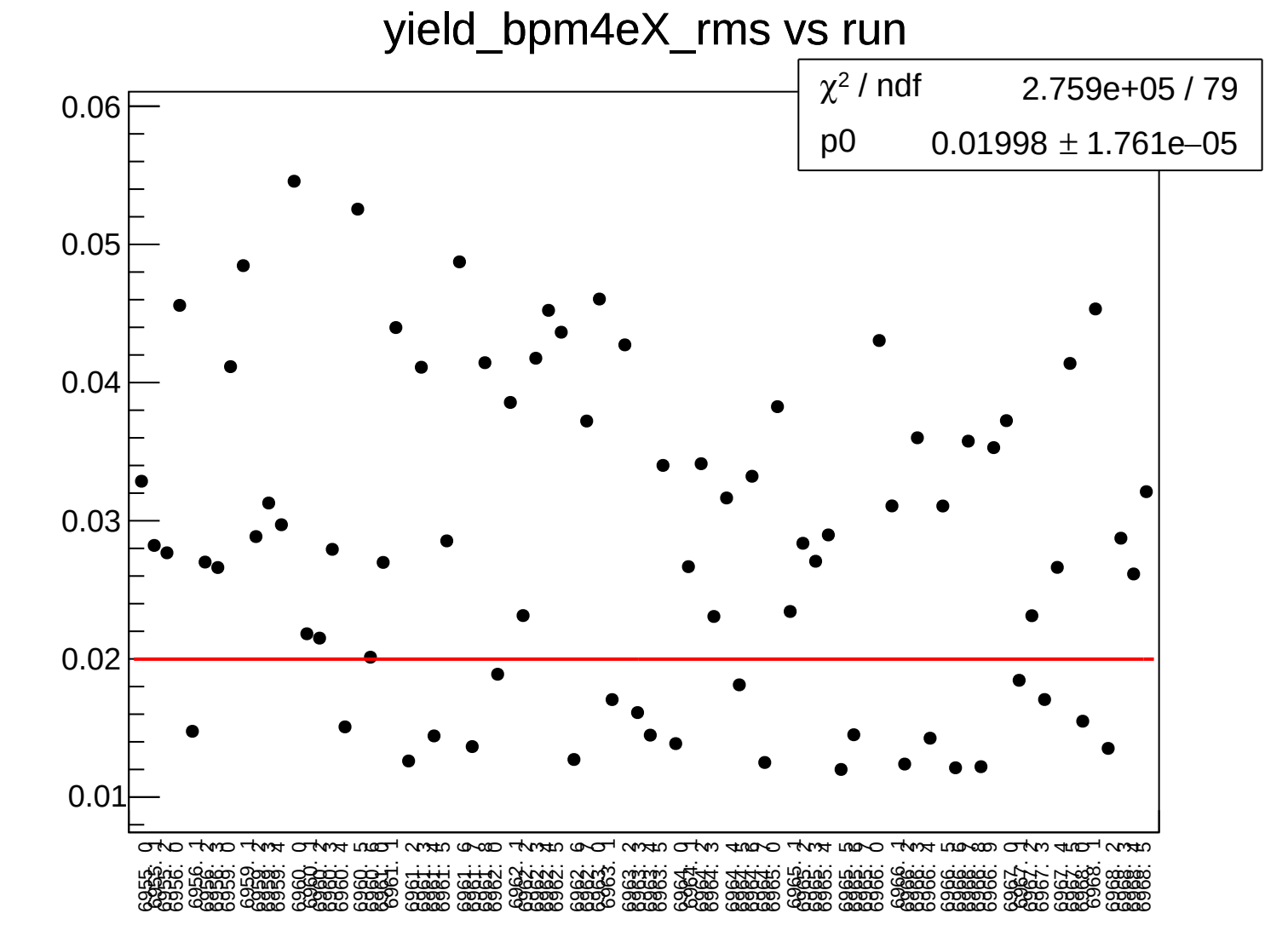

yield_bpm4aY_mean vs run
χ² / ndf 8.665e+04 / 79
p0 0.6266 ± 1.468e−05
0.655
0.65
0.645
0.64
0.635
0.63
0.625
0.62
0.615
pull
Entries 80
Mean 113.3
Std Dev 72.12
120
100
80
60
40
20
0
−20
−40
−60
−80

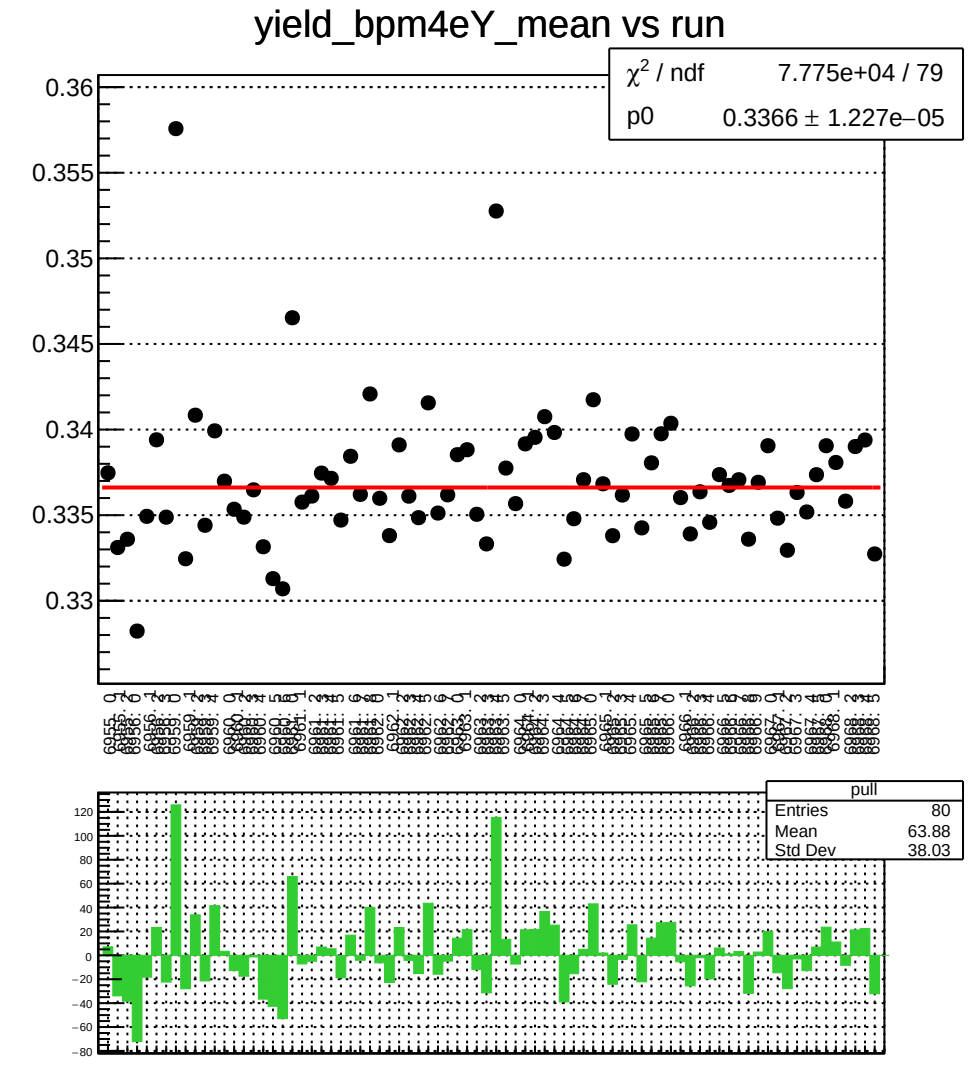

pull1D
Entries 80
Mean −1.155
Std Dev 3.706
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

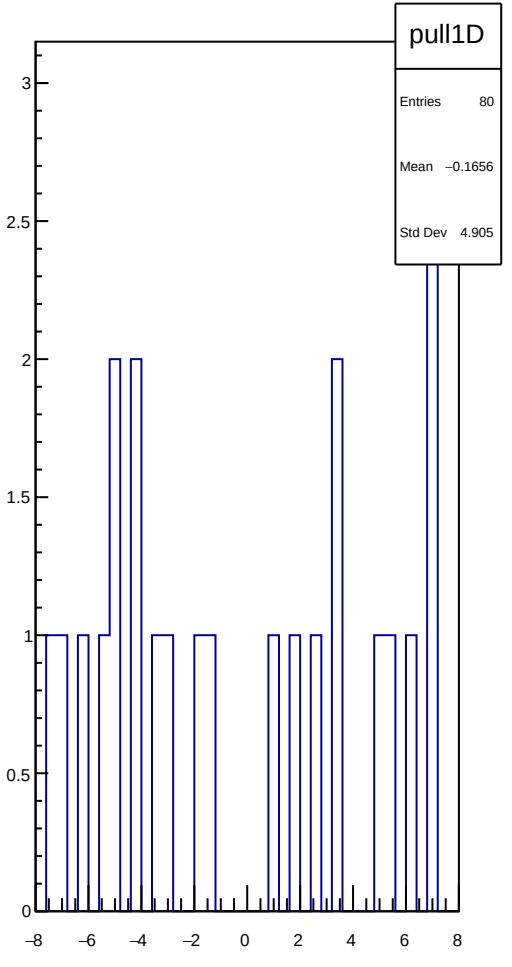

yield_bpm4aY_rms vs run
χ² / ndf 1.986e+04 / 79
p0 0.0129 ± 1.038e−05
0.022
0.02
0.018
0.016
0.014
0.012

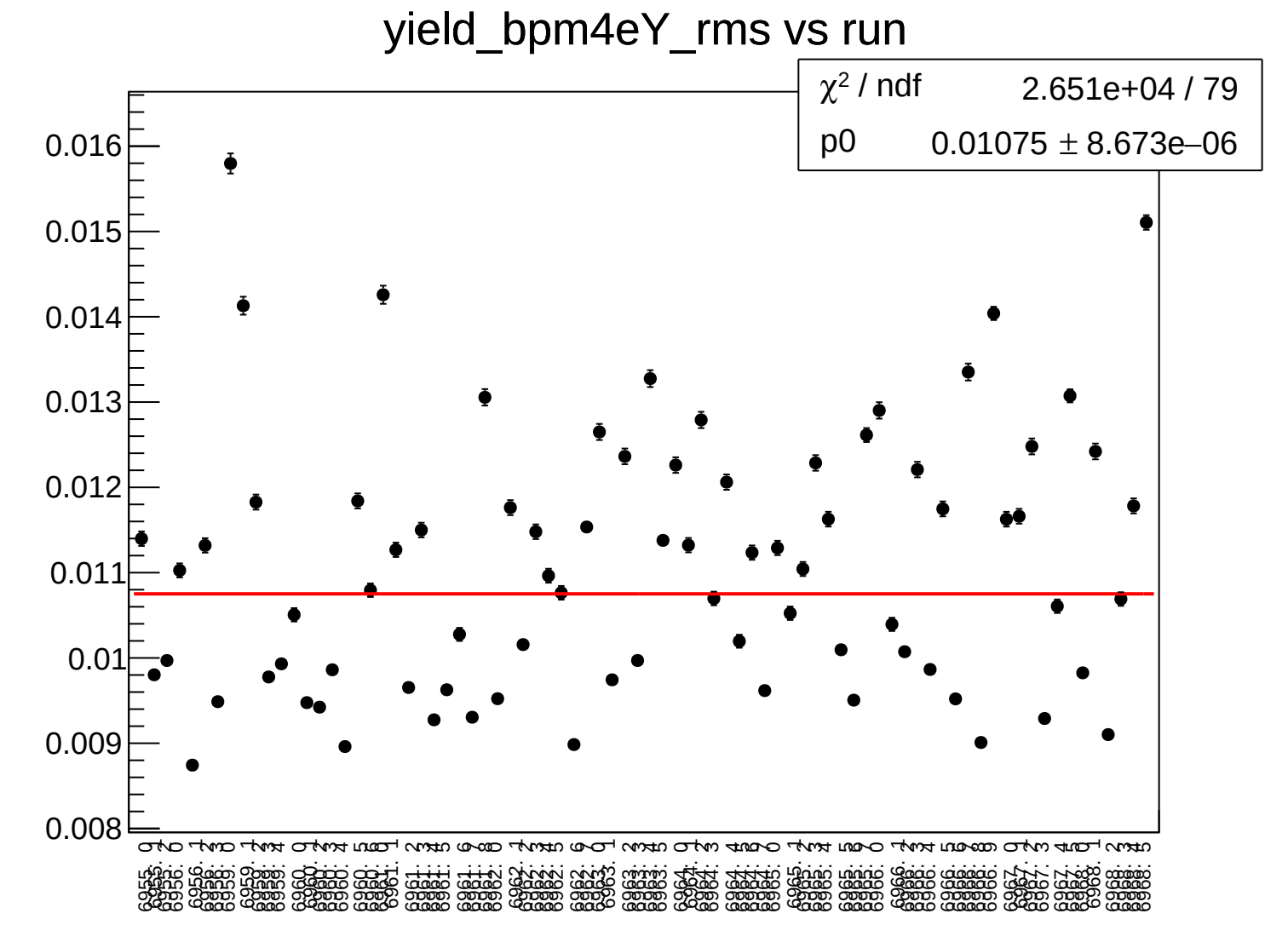

yield_bpm4eX_mean vs run
χ² / ndf 2.604e+05 / 79
p0 −0.04303 ± 2.491e−05
pull
Entries 80
Mean −14.35
Std Dev 49.92

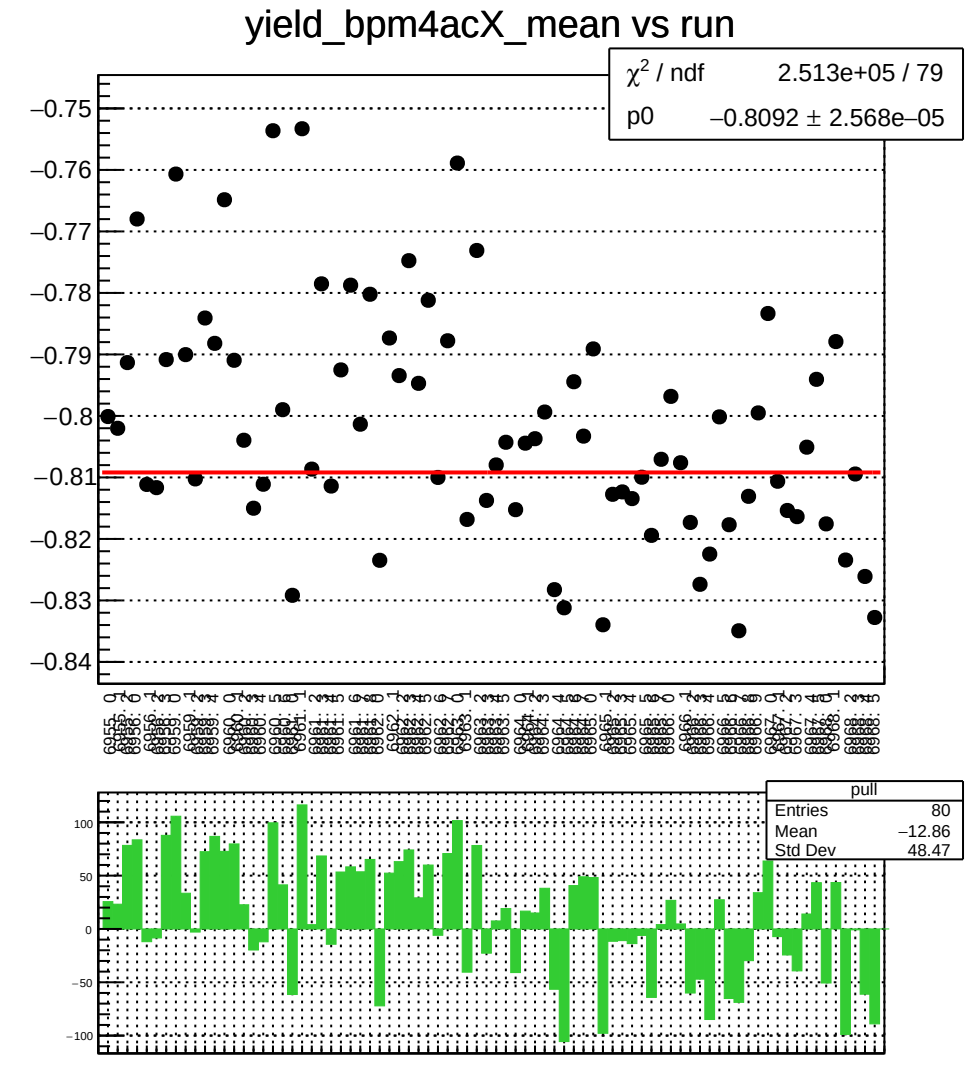

pull1D
Entries 80
Mean −0.7238
Std Dev 4.584

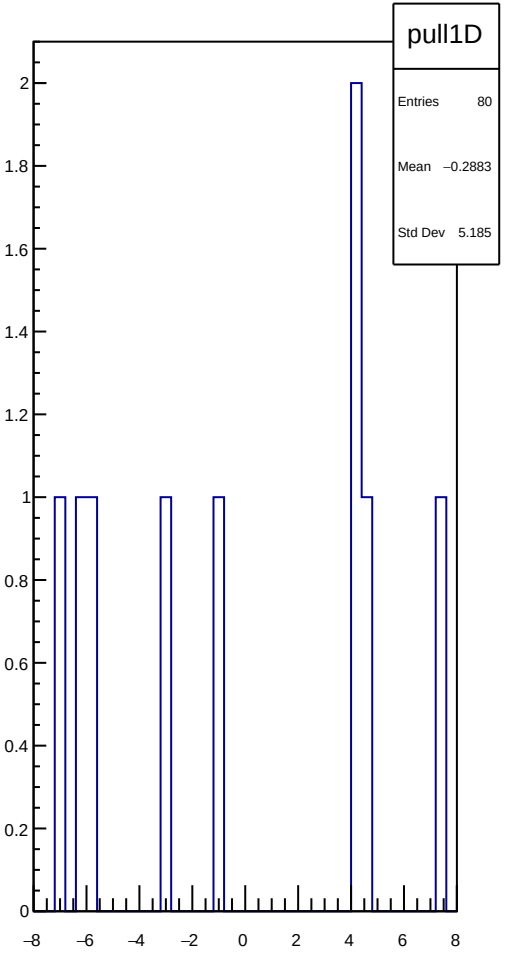

yield_bpm4eX_rms vs run
χ² / ndf 2.759e+05 / 79
p0 0.01998 ± 1.761e−05
0.06
0.05
0.04
0.03
0.02
0.01

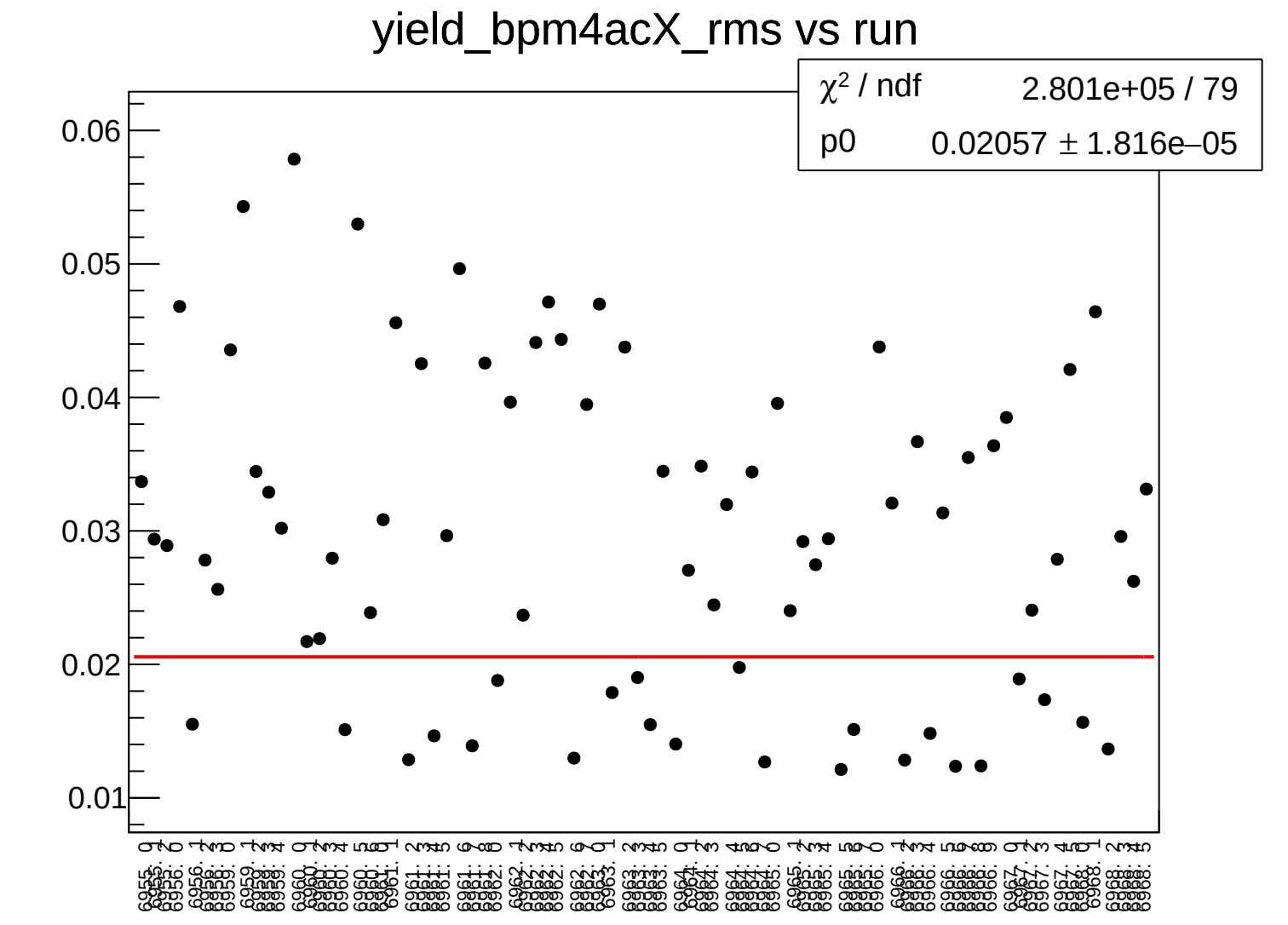

yield_bpm4eY_mean vs run
χ² / ndf 7.775e+04 / 79
p0 0.3366 ± 1.227e−05
0.36
0.355
0.35
0.345
0.34
0.335
0.33
pull
Entries 80
Mean 63.88
Std Dev 38.03
120
100
80
60
40
20
0
−20
−40
−60
−80

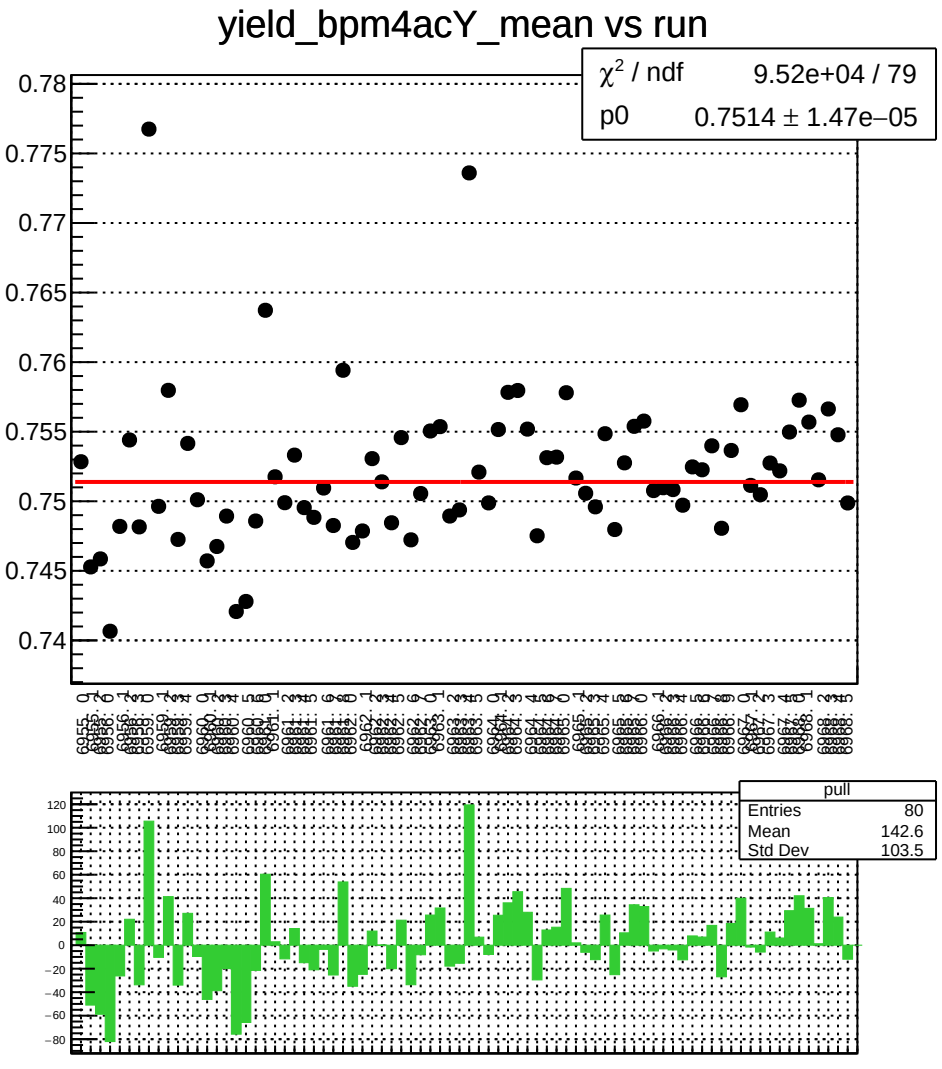

pull1D
Entries 80
Mean −0.1656
Std Dev 4.905
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

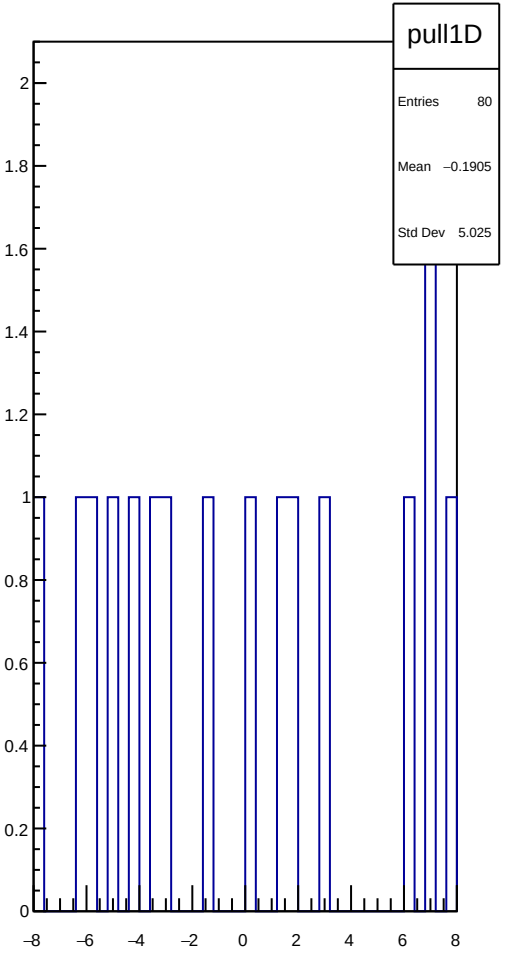

yield_bpm4eY_rms vs run
χ² / ndf 2.651e+04 / 79
p0 0.01075 ± 8.673e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

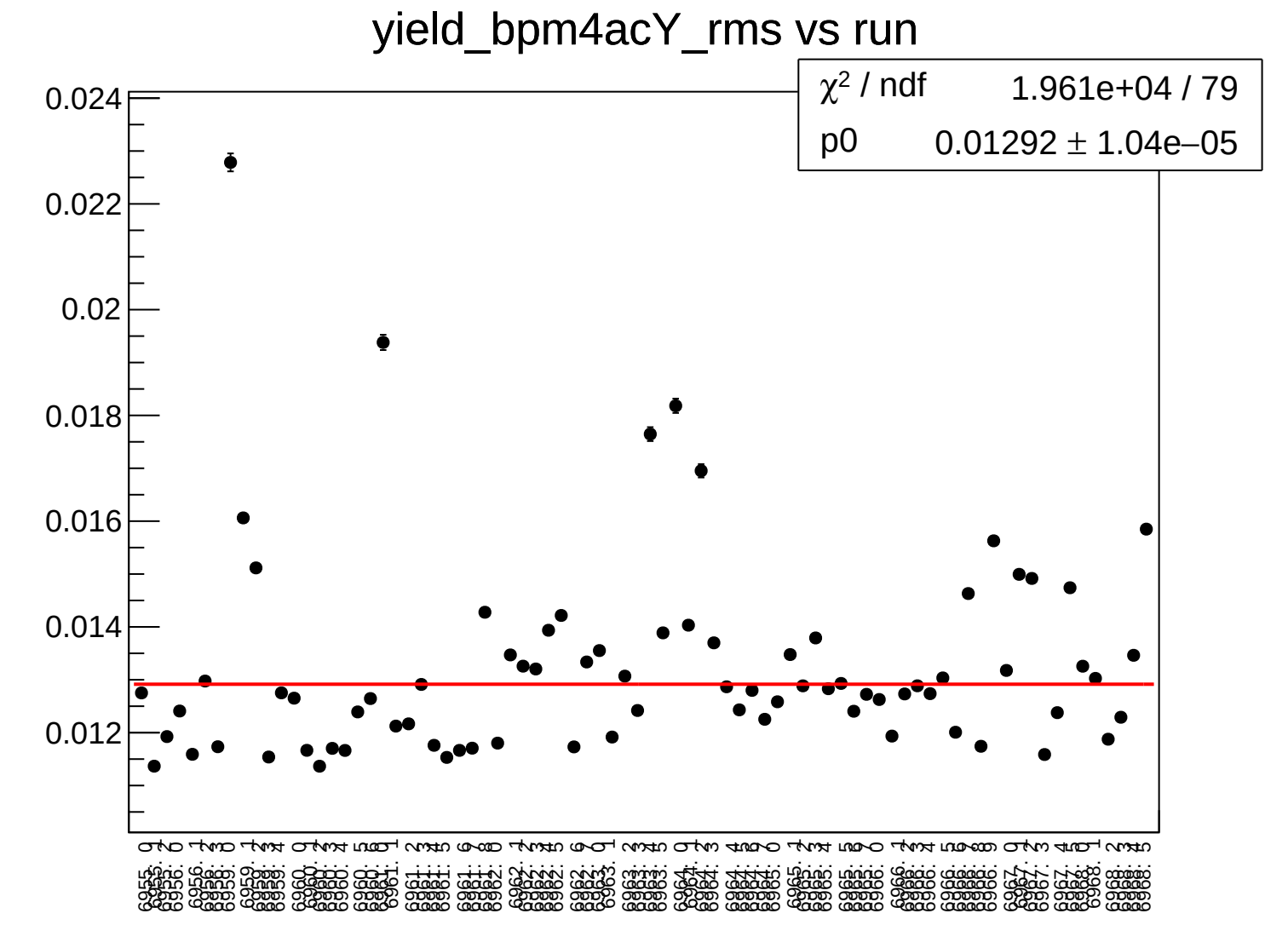

yield_bpm4acX_mean vs run
χ² / ndf 2.513e+05 / 79
p0 −0.8092 ± 2.568e−05
pull
Entries 80
Mean −12.86
Std Dev 48.47

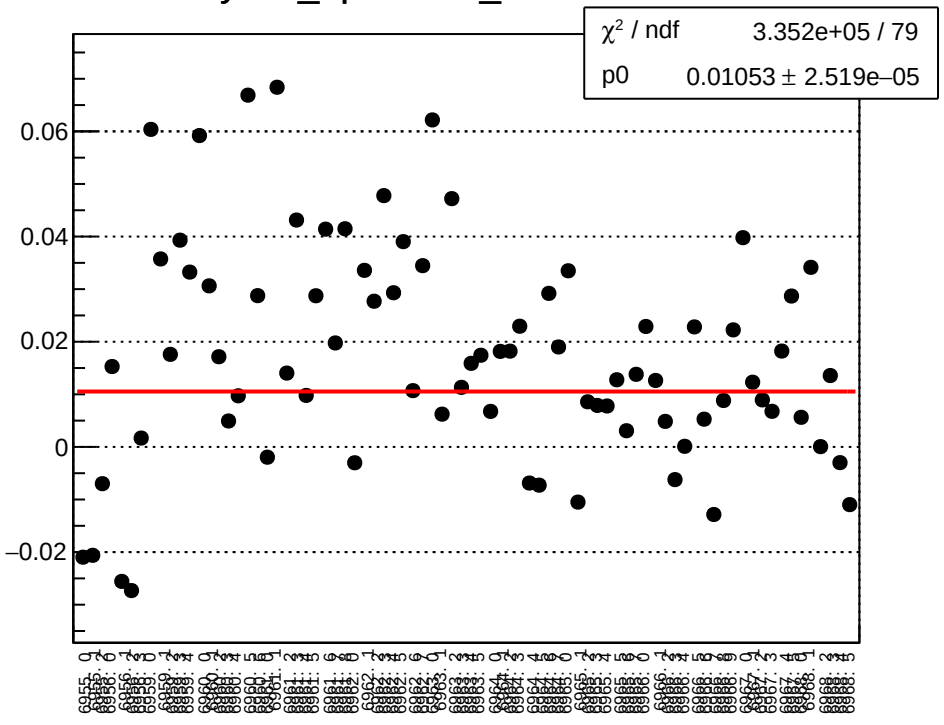

pull1D
Entries 80
Mean −0.2883
Std Dev 5.185

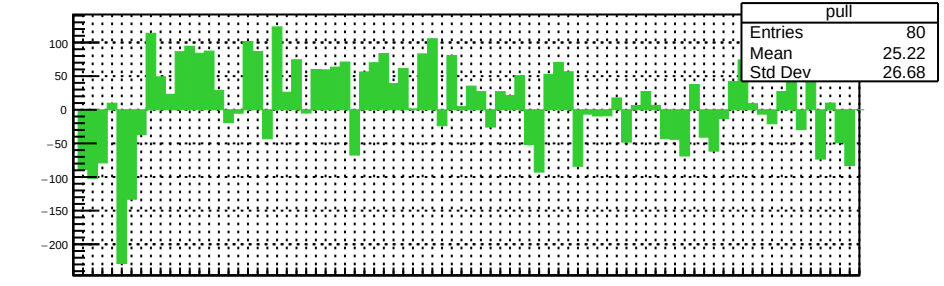

yield_bpm4acX_rms vs run
χ² / ndf 2.801e+05 / 79
p0 0.02057 ± 1.816e−05
0.06
0.05
0.04
0.03
0.02
0.01

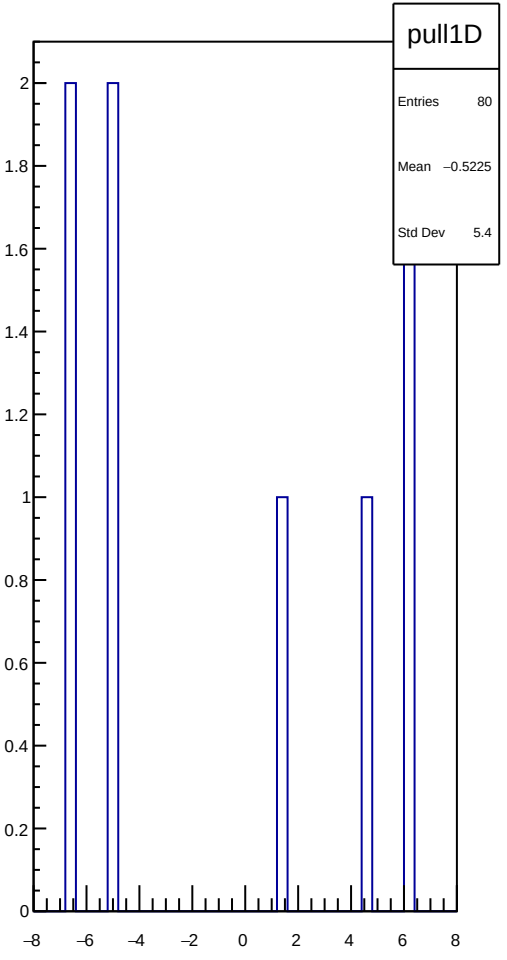

yield_bpm4acY_mean vs run
χ² / ndf 9.52e+04 / 79
p0 0.7514 ± 1.47e−05
0.78
0.775
0.77
0.765
0.76
0.755
0.75
0.745
0.74
pull
Entries 80
Mean 142.6
Std Dev 103.5
120
100
80
60
40
20
0
−20
−40
−60
−80

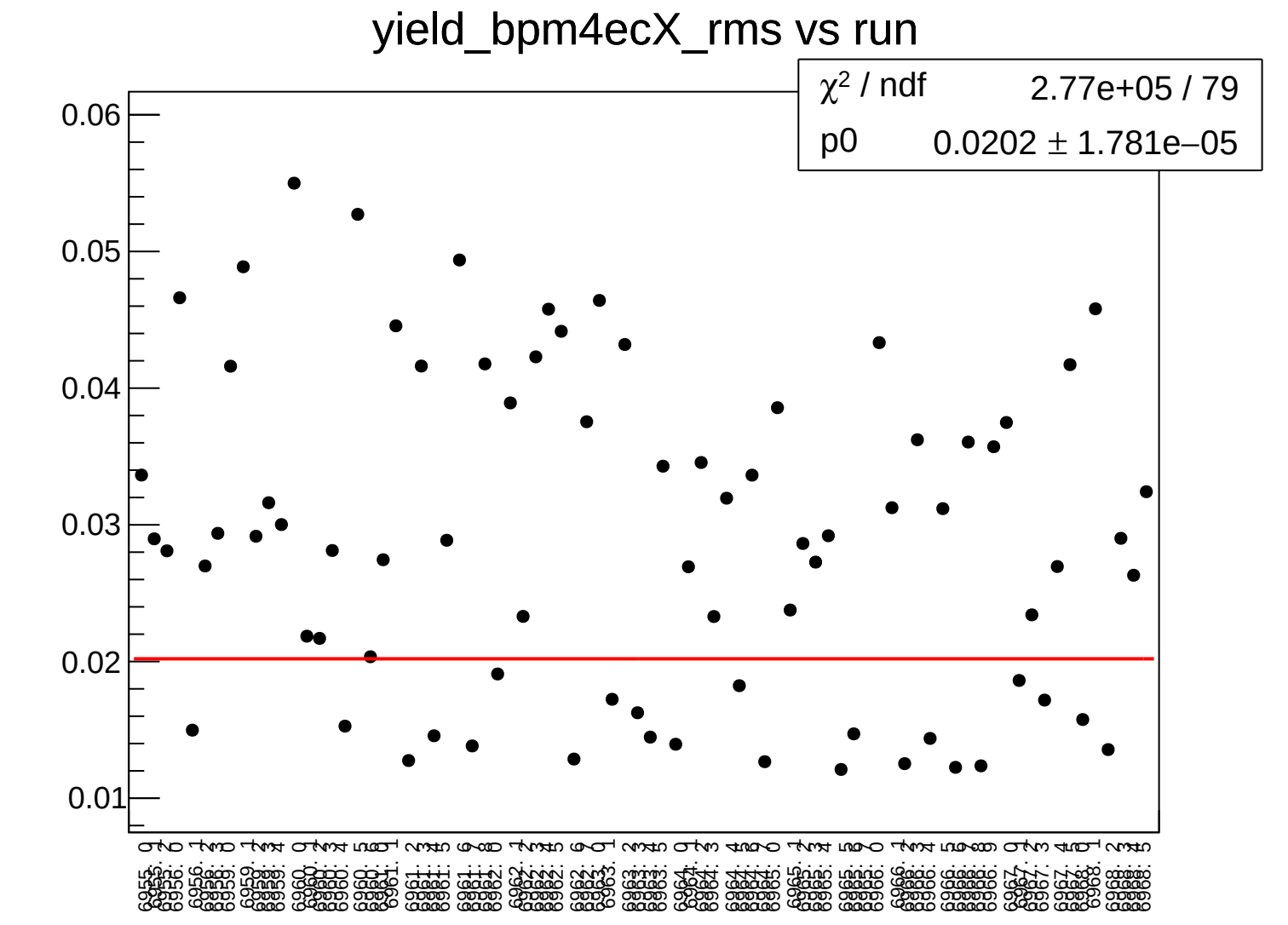

pull1D
Entries 80
Mean −0.1905
Std Dev 5.025
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

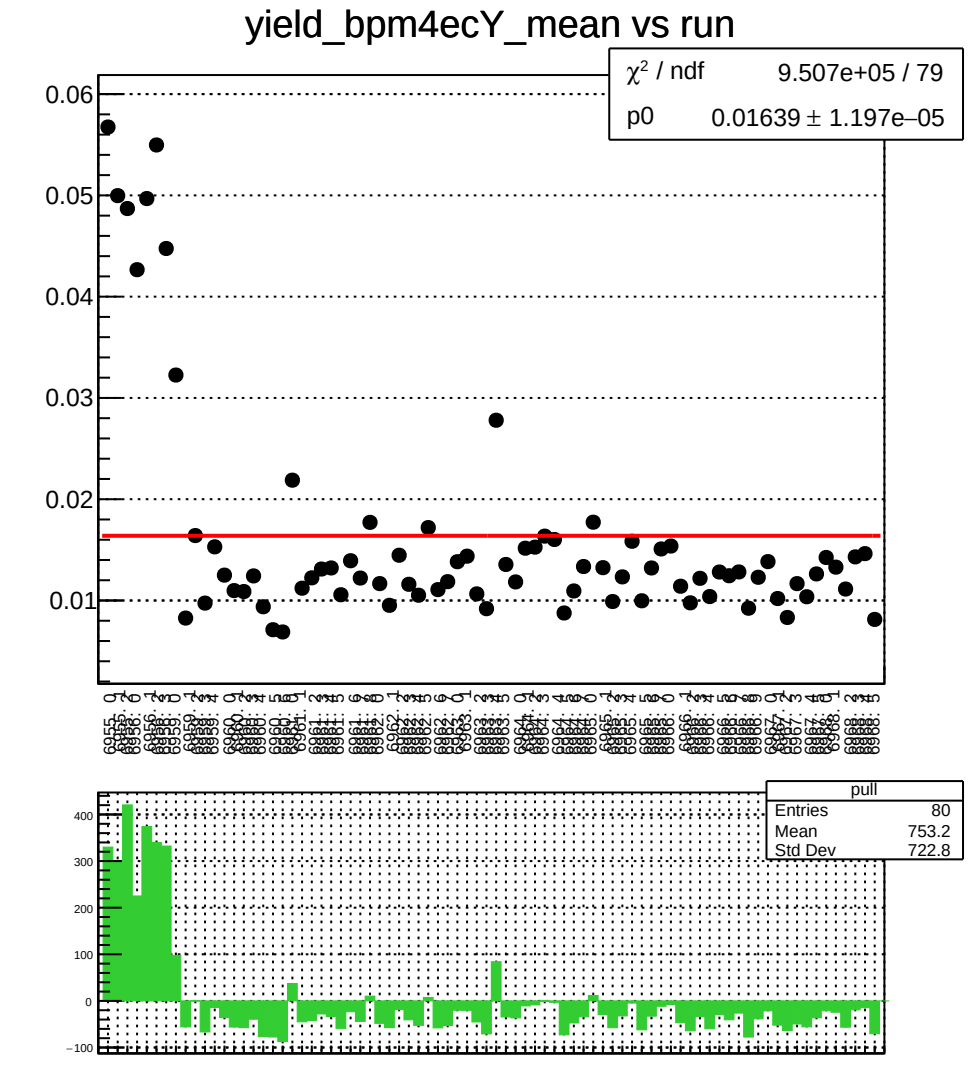

yield_bpm4acY_rms vs run
χ² / ndf 1.961e+04 / 79
p0 0.01292 ± 1.04e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012

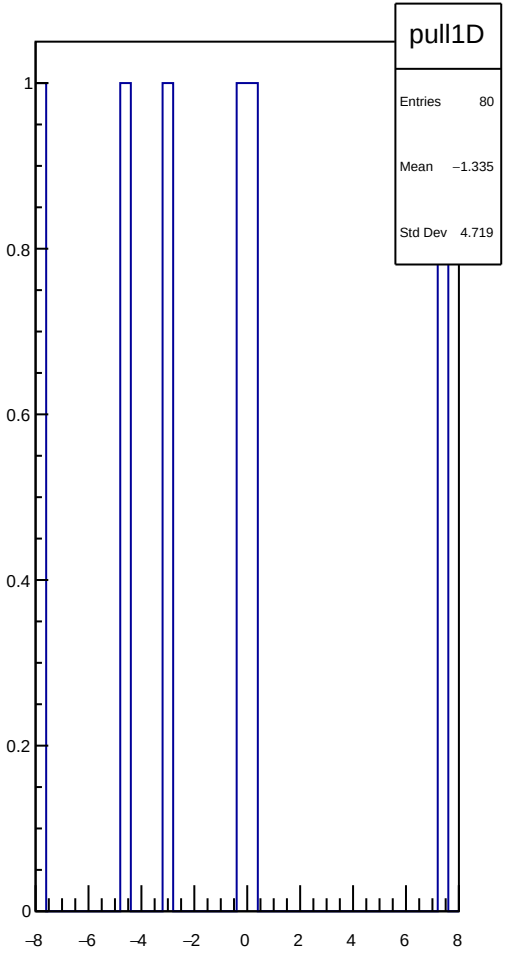

yield_bpm4ecX_mean vs run
χ² / ndf 3.352e+05 / 79
p0 0.01053 ± 2.519e–05
0.06
0.04
0.02
0
–0.02

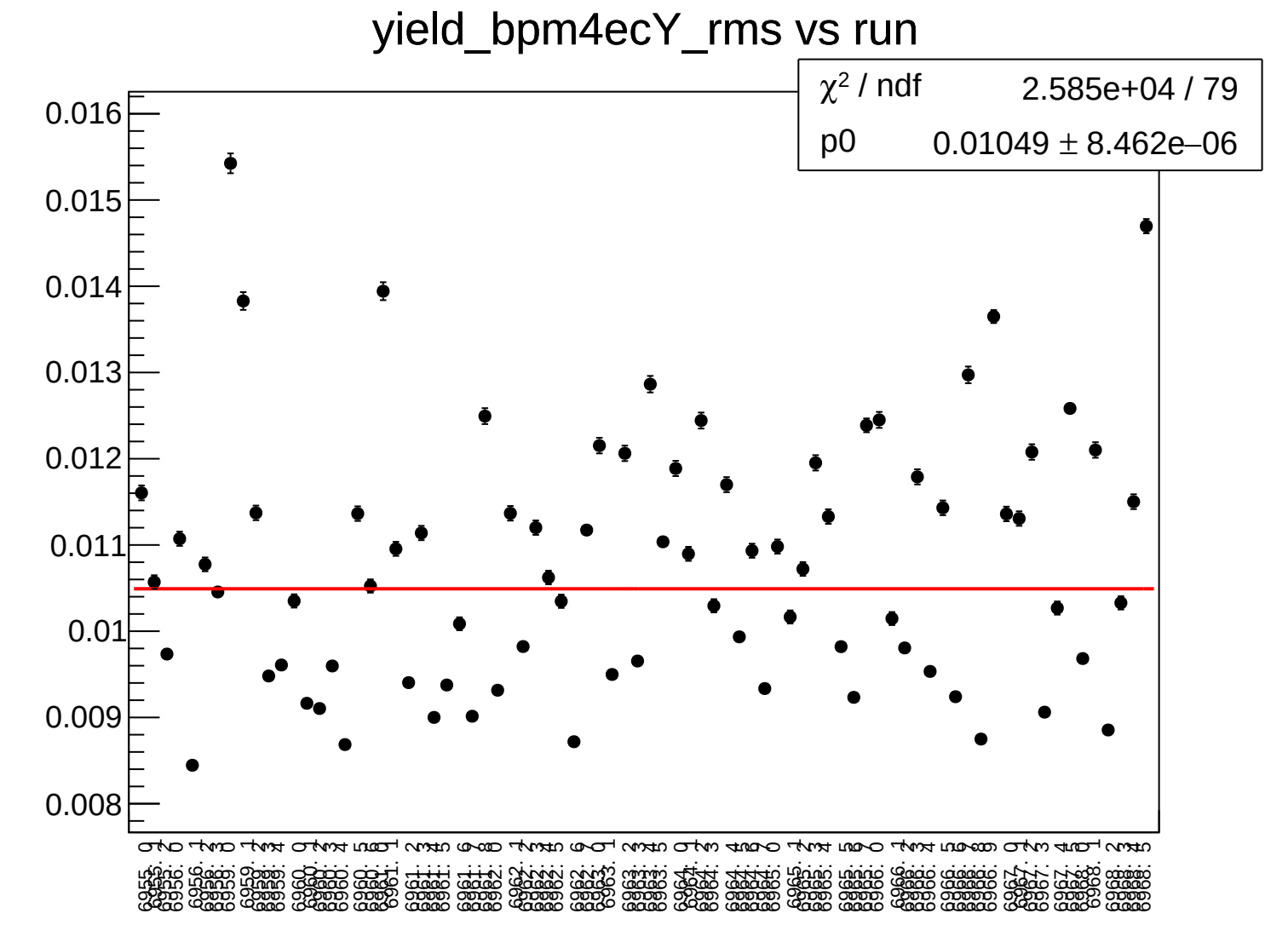

pull
Entries 80
Mean 25.22
Std Dev 26.68
100
50
0
–50
–100
–150
–200

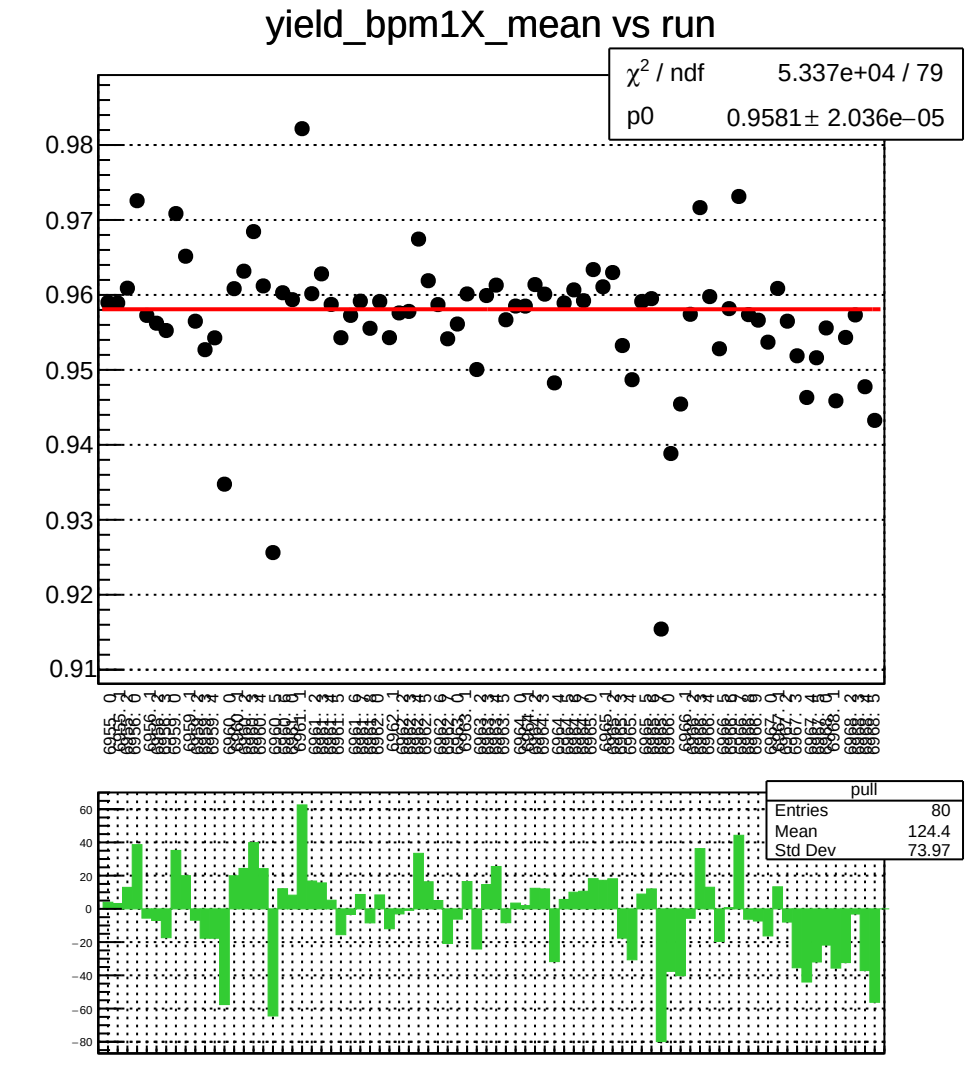

pull1D
Entries 80
Mean –0.5225
Std Dev 5.4
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

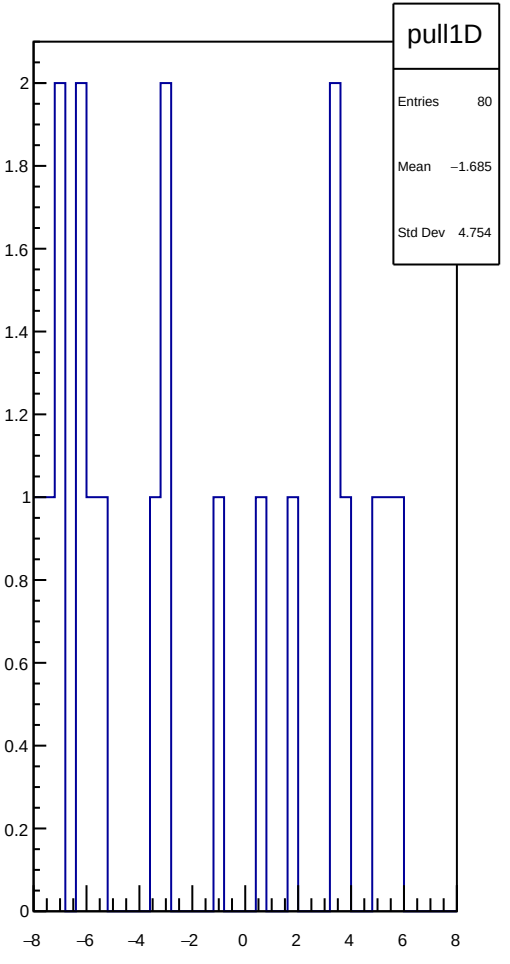

yield_bpm4ecX_rms vs run
χ² / ndf 2.77e+05 / 79
p0 0.0202 ± 1.781e−05
0.06
0.05
0.04
0.03
0.02
0.01

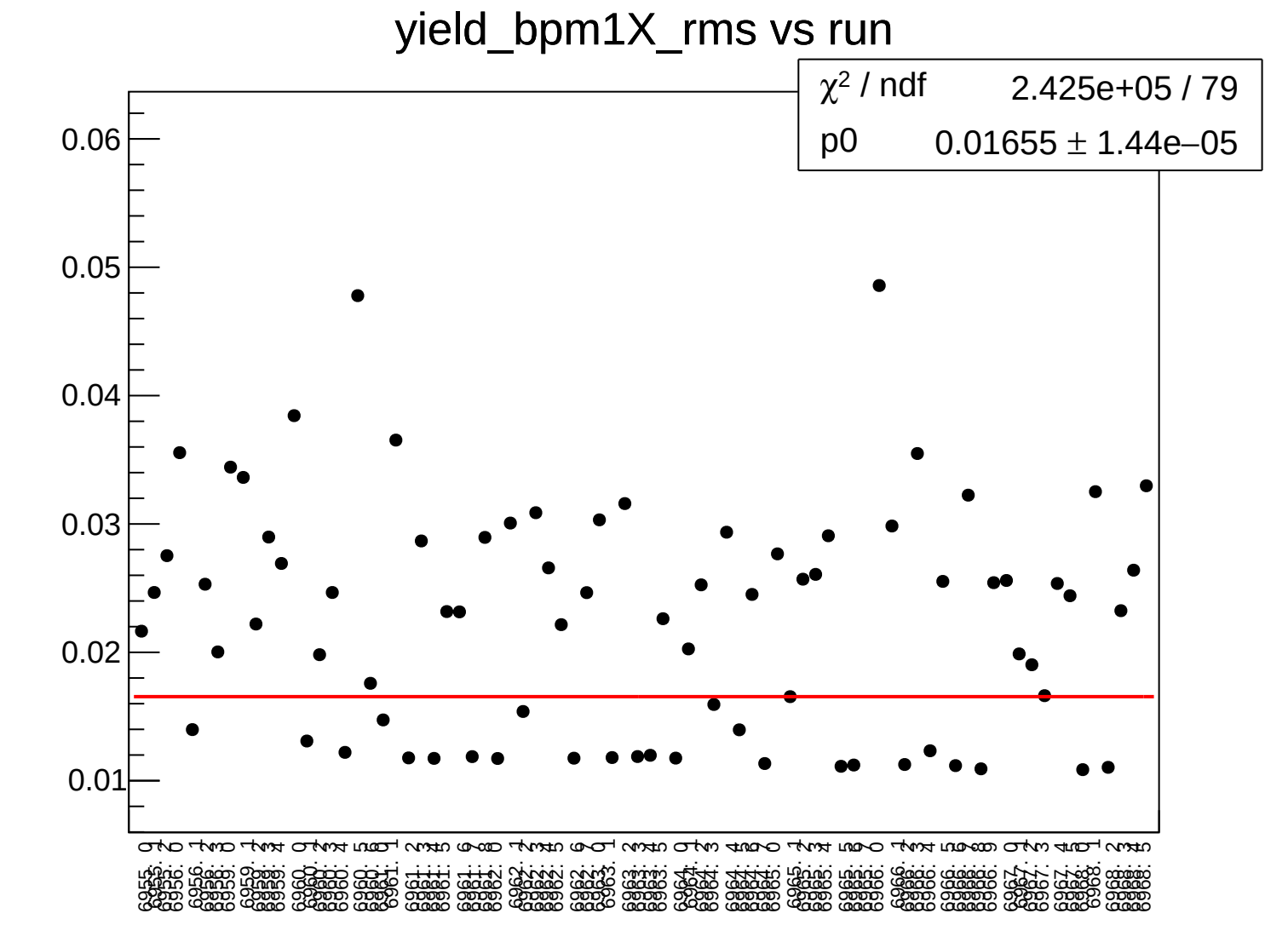

yield_bpm4ecY_mean vs run
χ² / ndf 9.507e+05 / 79
p0 0.01639 ± 1.197e−05
0.06
0.05
0.04
0.03
0.02
0.01
pull
Entries 80
Mean 753.2
Std Dev 722.8
400
300
200
100
0
−100

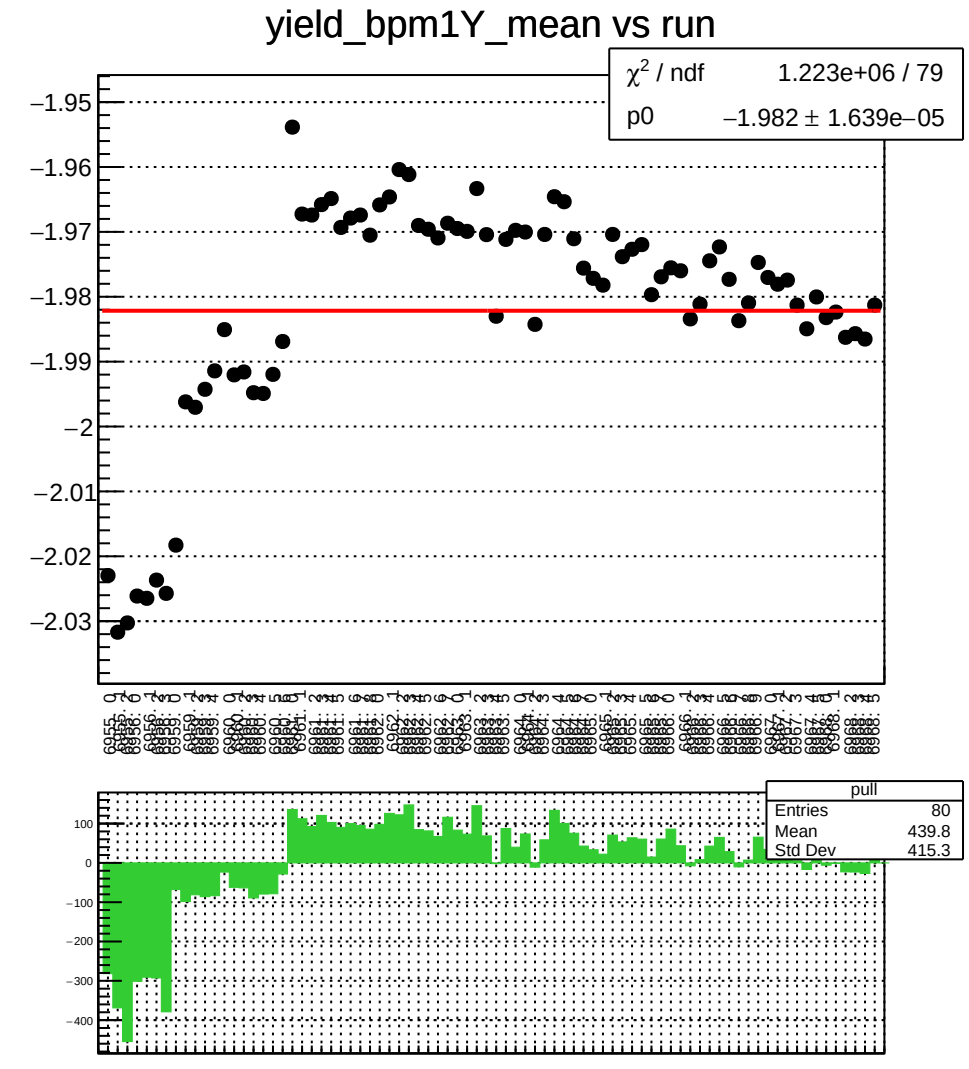

pull1D
Entries 80
Mean −1.335
Std Dev 4.719
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

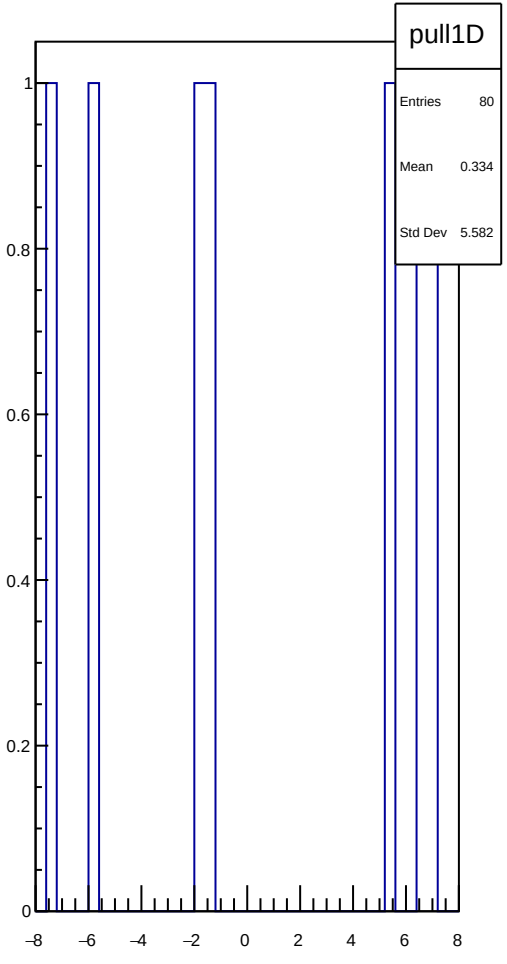

yield_bpm4ecY_rms vs run
χ² / ndf 2.585e+04 / 79
p0 0.01049 ± 8.462e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

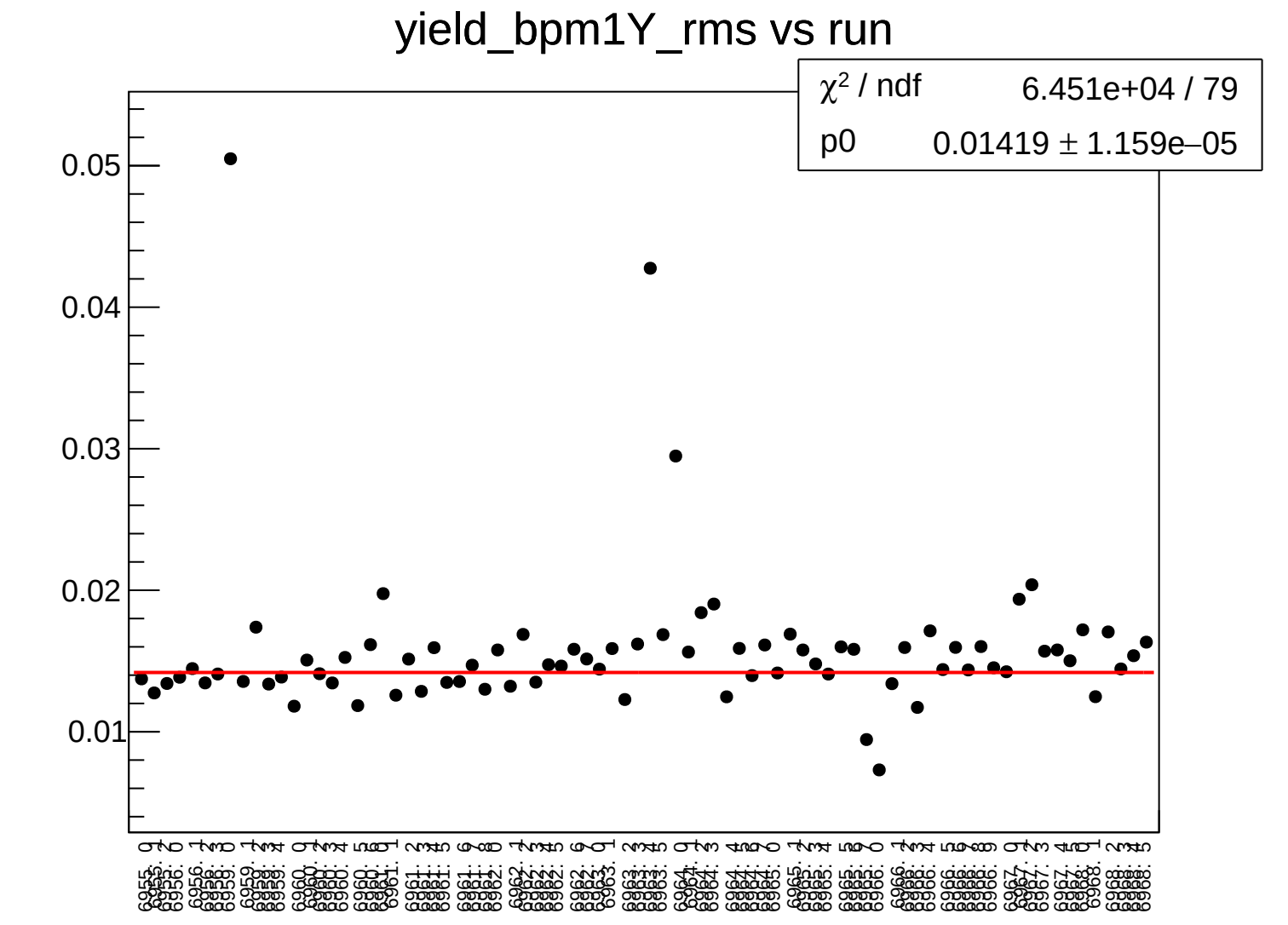

yield_bpm1X_mean vs run
χ² / ndf 5.337e+04 / 79
p0 0.9581 ± 2.036e−05
0.98
0.97
0.96
0.95
0.94
0.93
0.92
0.91
pull
Entries 80
Mean 124.4
Std Dev 73.97
60
40
20
0
−20
−40
−60
−80

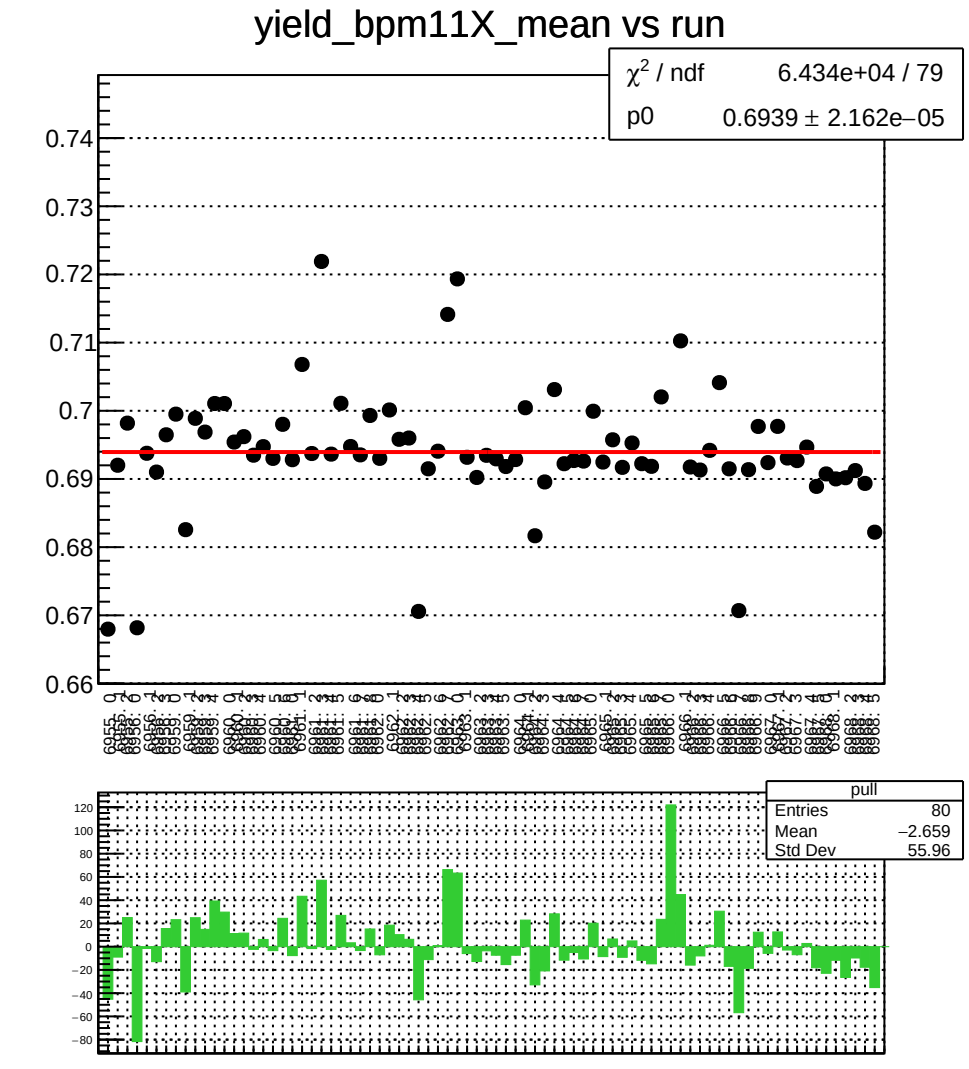

pull1D
Entries 80
Mean −1.685
Std Dev 4.754
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

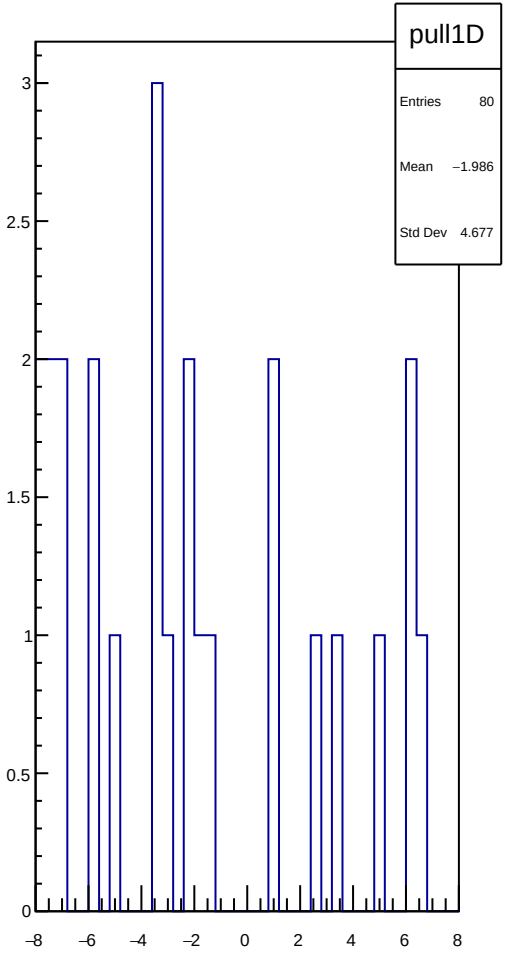

yield_bpm1X_rms vs run
χ² / ndf 2.425e+05 / 79
p0 0.01655 ± 1.44e−05
0.06
0.05
0.04
0.03
0.02
0.01

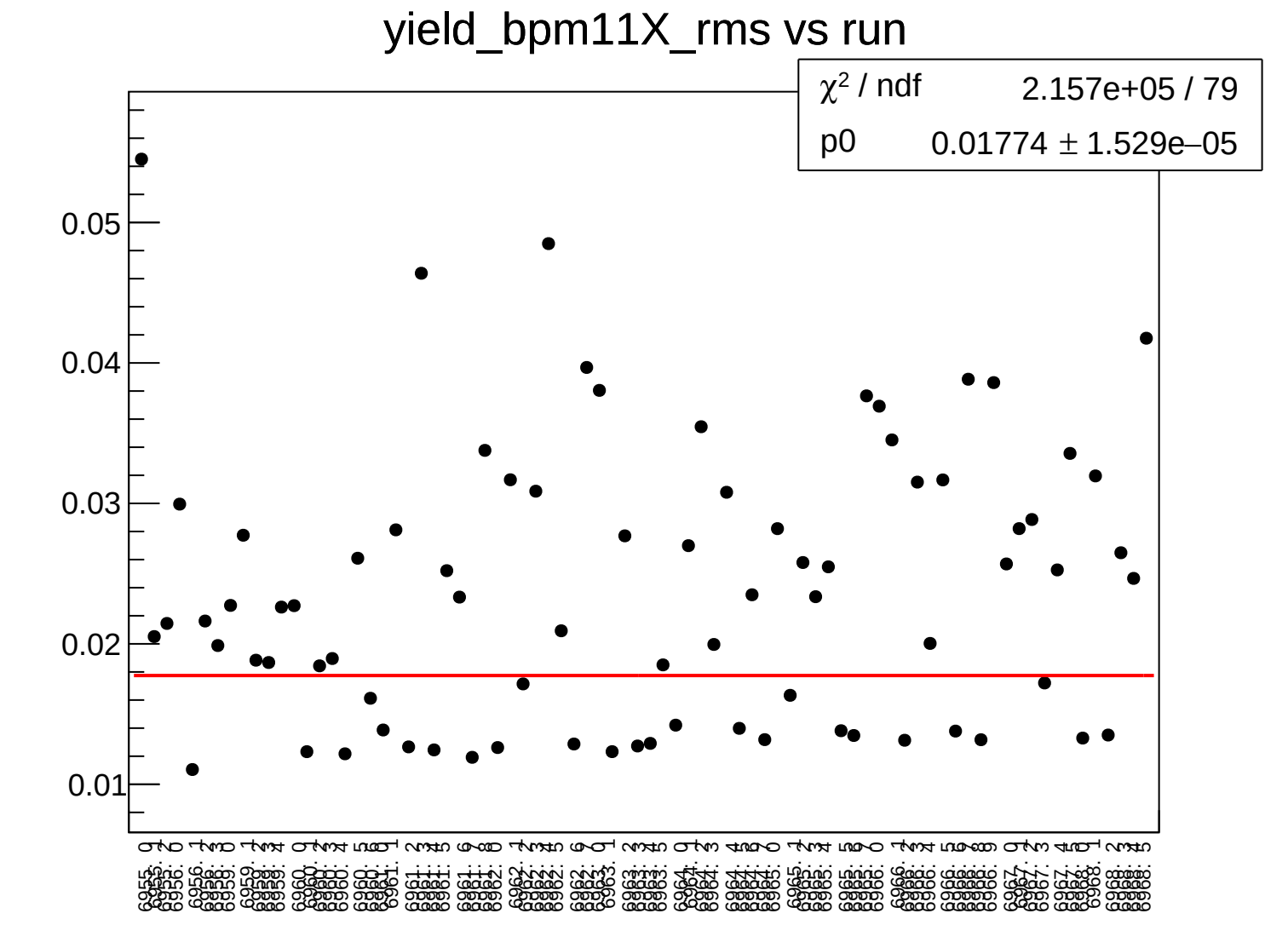

yield_bpm1Y_mean vs run
χ² / ndf 1.223e+06 / 79
p0 −1.982 ± 1.639e−05
−1.95
−1.96
−1.97
−1.98
−1.99
−2
−2.01
−2.02
−2.03
pull
Entries 80
Mean 439.8
Std Dev 415.3
100
0
−100
−200
−300
−400

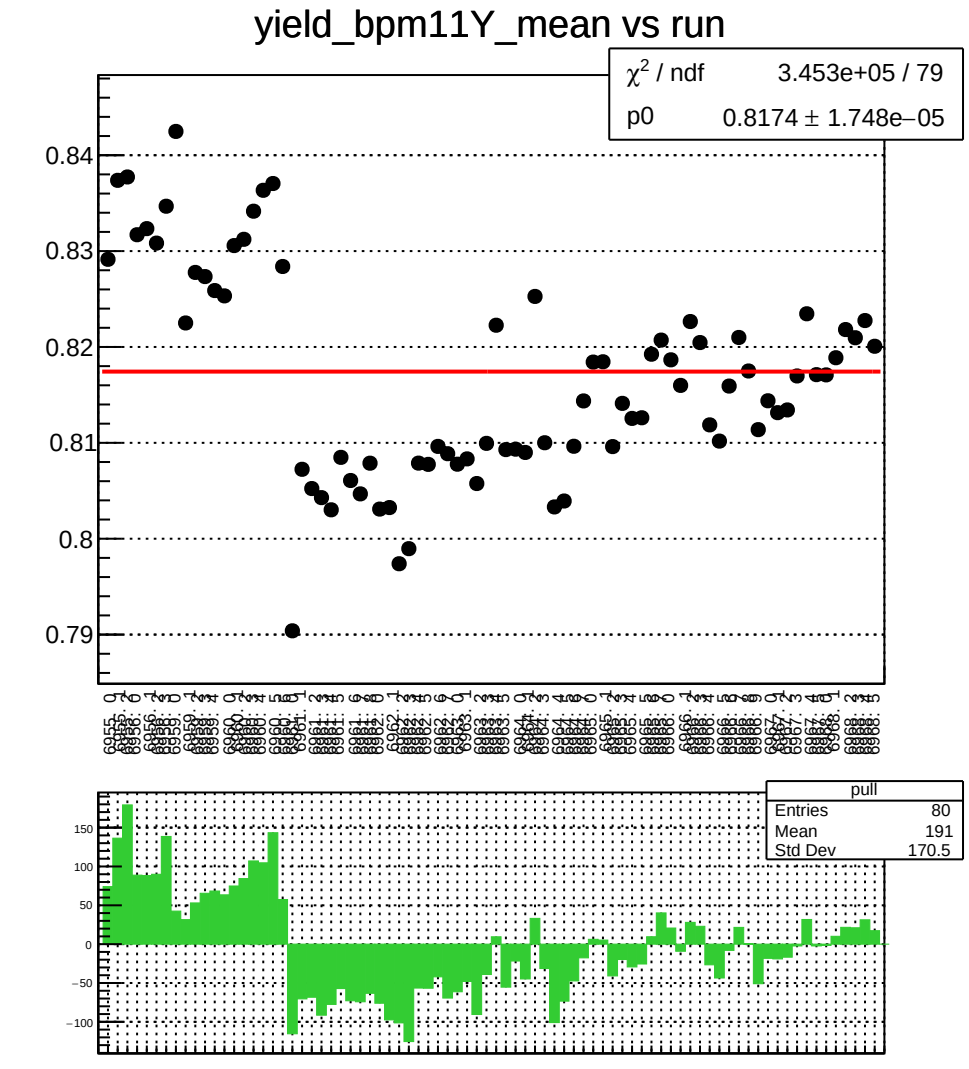

pull1D
Entries 80
Mean 0.334
Std Dev 5.582
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

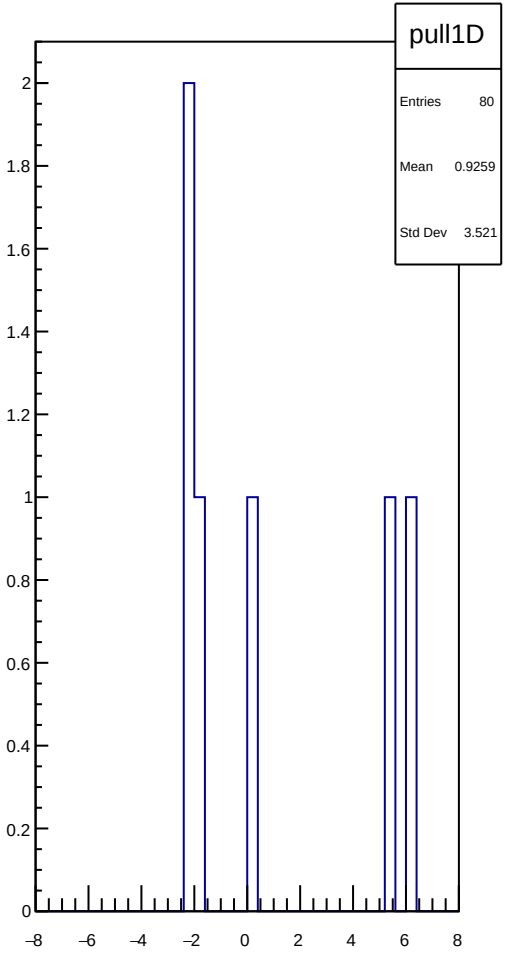

yield_bpm1Y_rms vs run
χ² / ndf 6.451e+04 / 79
p0 0.01419 ± 1.159e–05
0.05
0.04
0.03
0.02
0.01

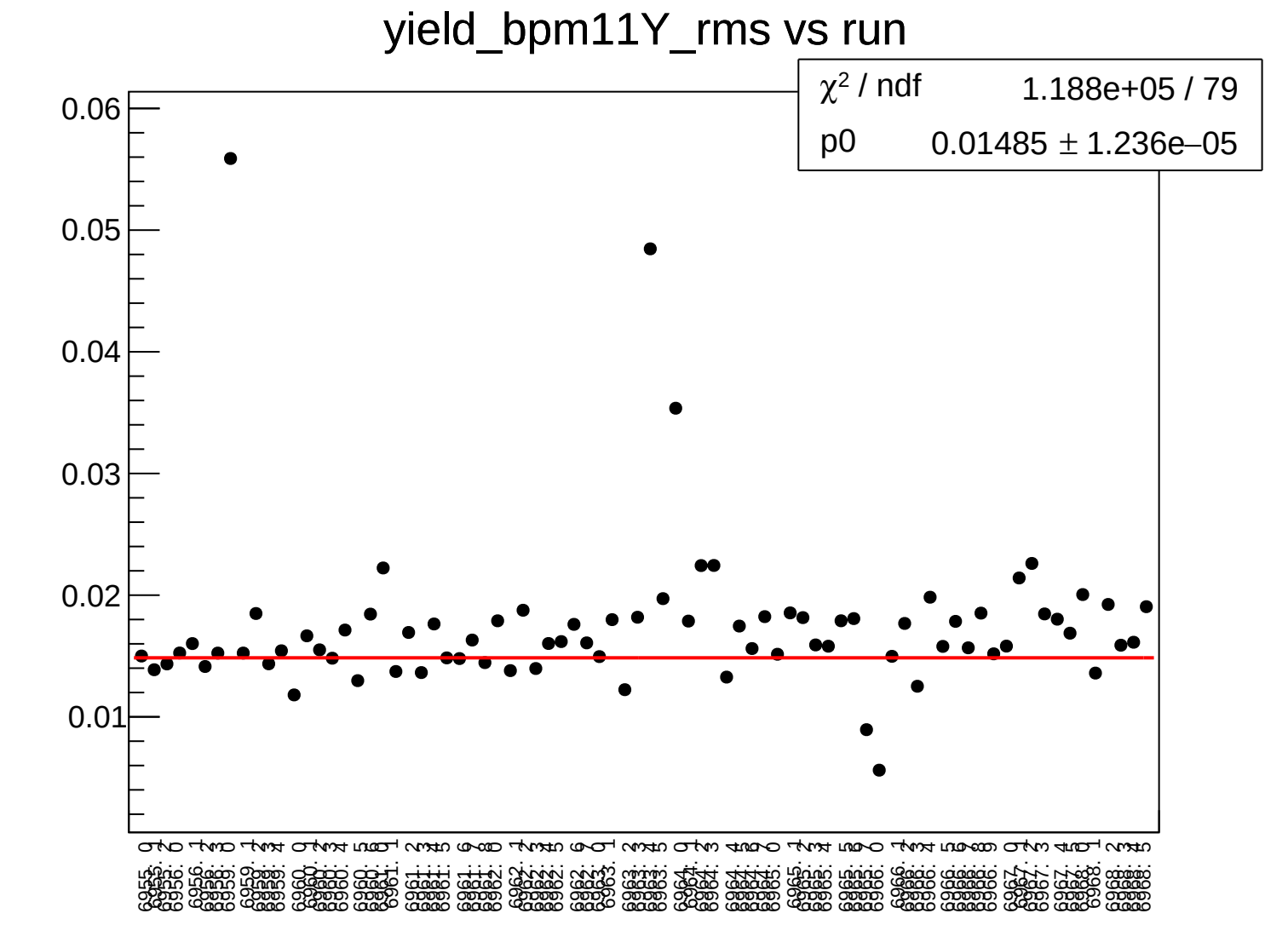

yield_bpm11X_mean vs run
χ² / ndf 6.434e+04 / 79
p0 0.6939 ± 2.162e−05
0.74
0.73
0.72
0.71
0.7
0.69
0.68
0.67
0.66
pull
Entries 80
Mean −2.659
Std Dev 55.96
120
100
80
60
40
20
0
−20
−40
−60
−80

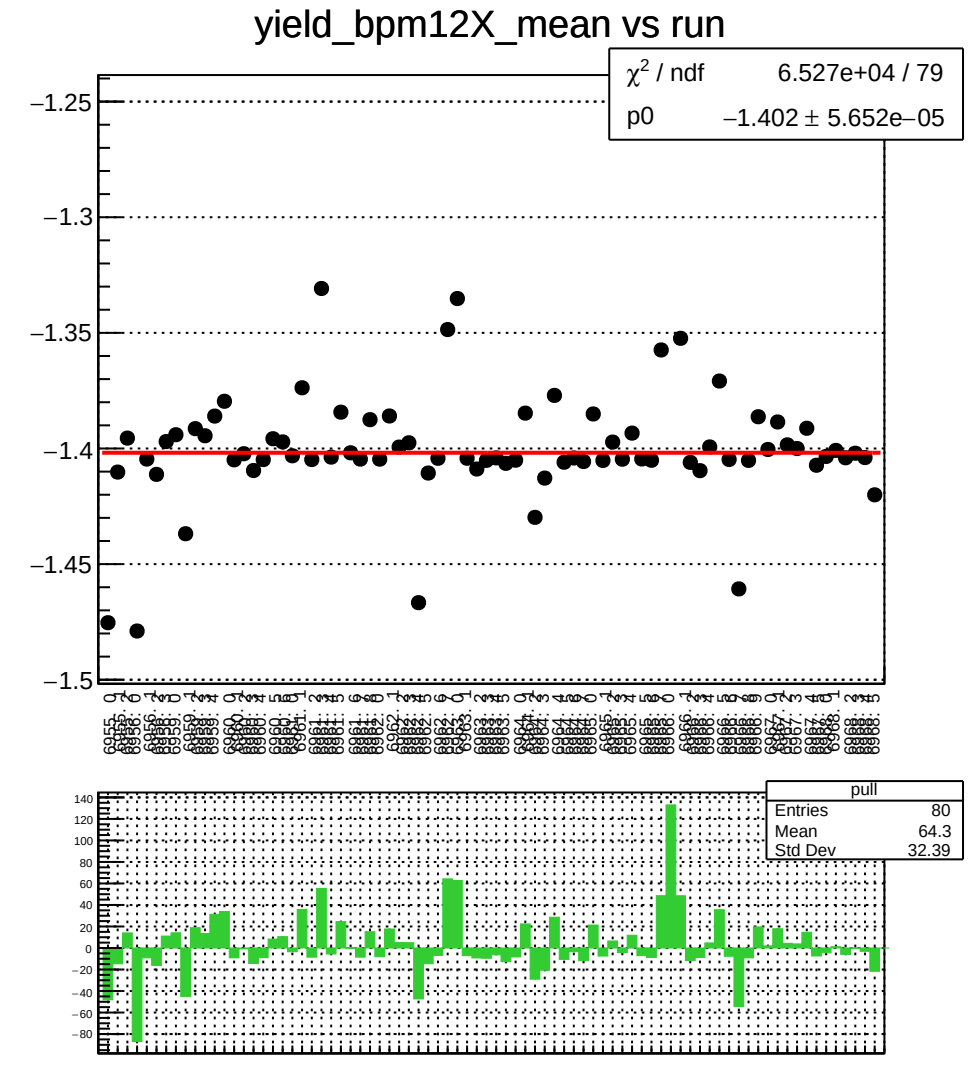

pull1D
Entries 80
Mean −1.986
Std Dev 4.677
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

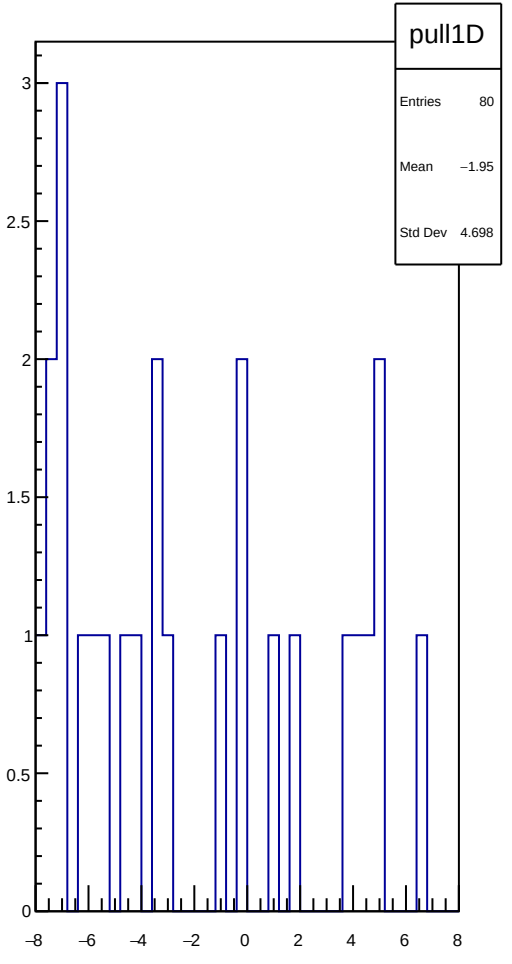

yield_bpm11X_rms vs run
χ² / ndf 2.157e+05 / 79
p0 0.01774 ± 1.529e–05
0.05
0.04
0.03
0.02
0.01

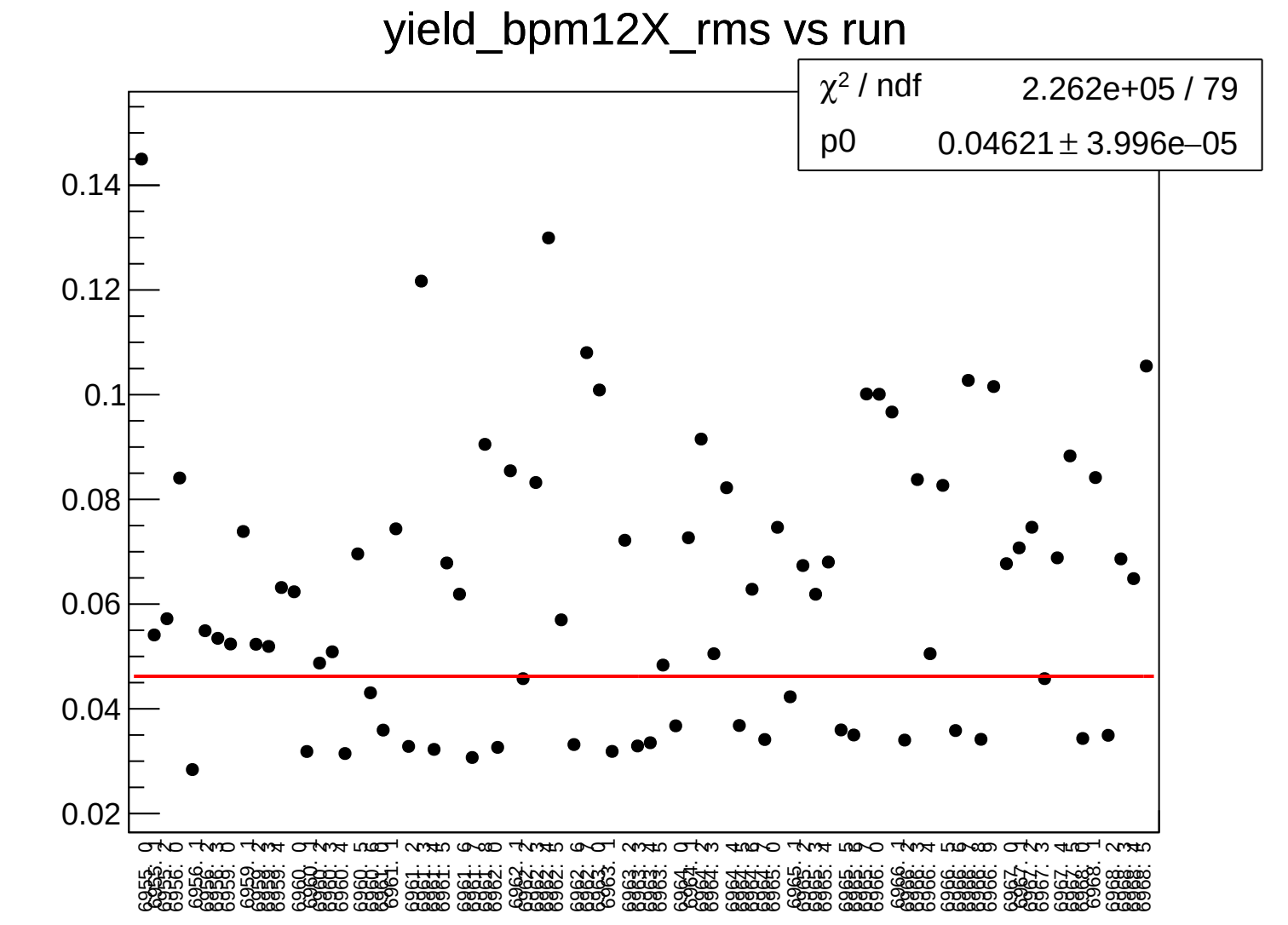

yield_bpm11Y_mean vs run
χ² / ndf 3.453e+05 / 79
p0 0.8174 ± 1.748e−05
0.84
0.83
0.82
0.81
0.8
0.79
pull
Entries 80
Mean 191
Std Dev 170.5
150
100
50
0
−50
−100

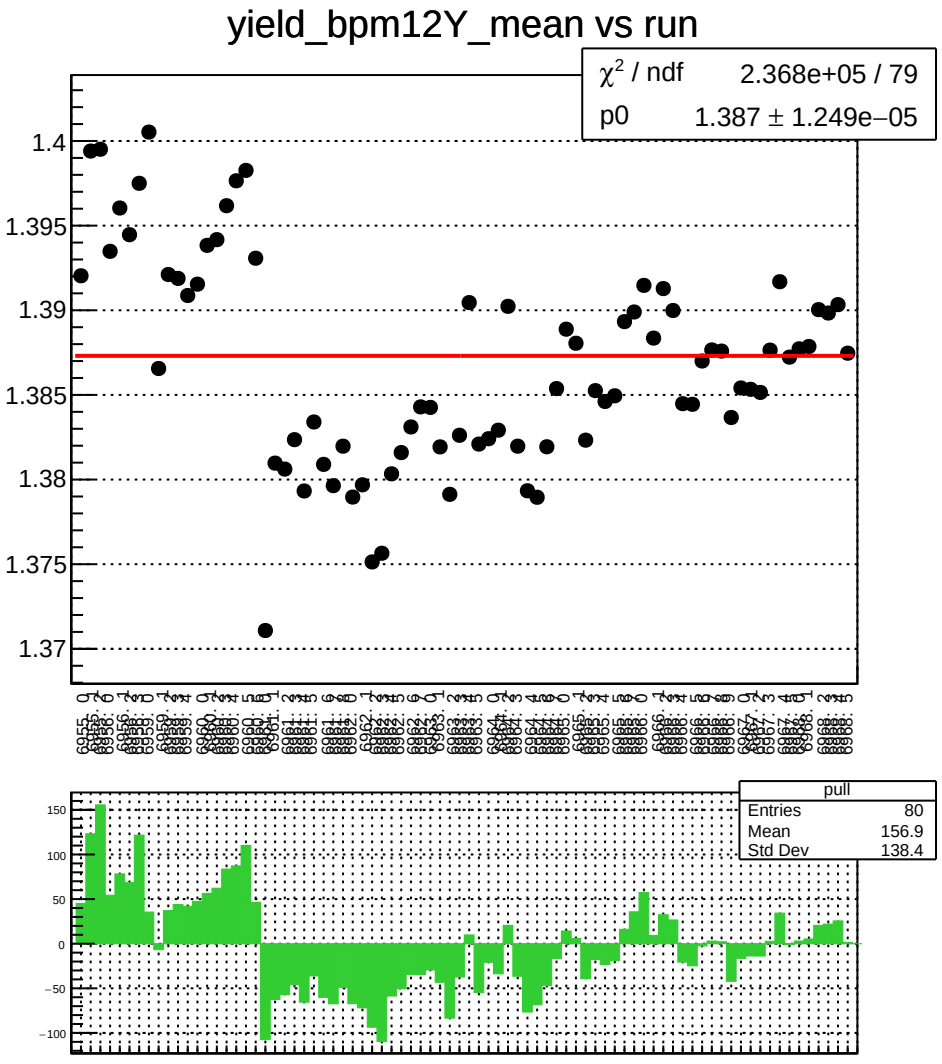

pull1D
Entries 80
Mean 0.9259
Std Dev 3.521
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

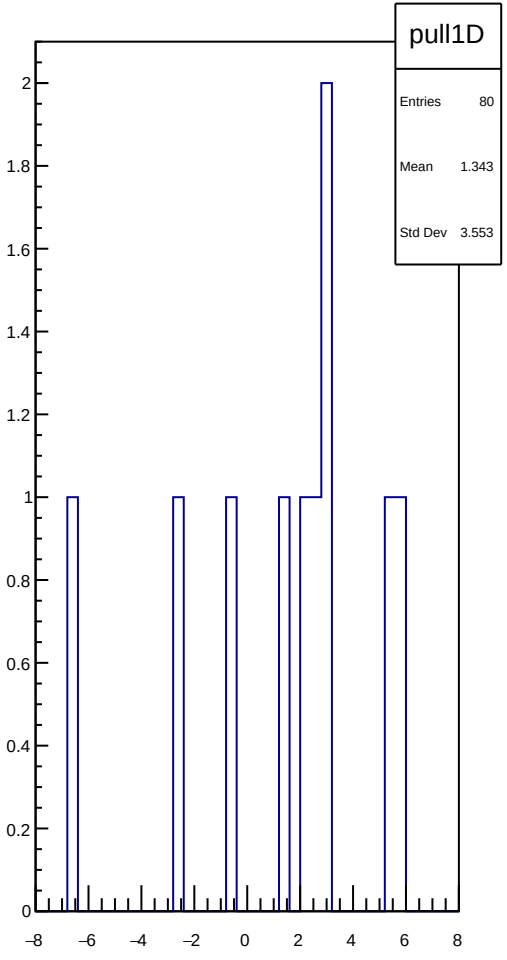

yield_bpm11Y_rms vs run
χ² / ndf 1.188e+05 / 79
p0 0.01485 ± 1.236e−05
0.06
0.05
0.04
0.03
0.02
0.01

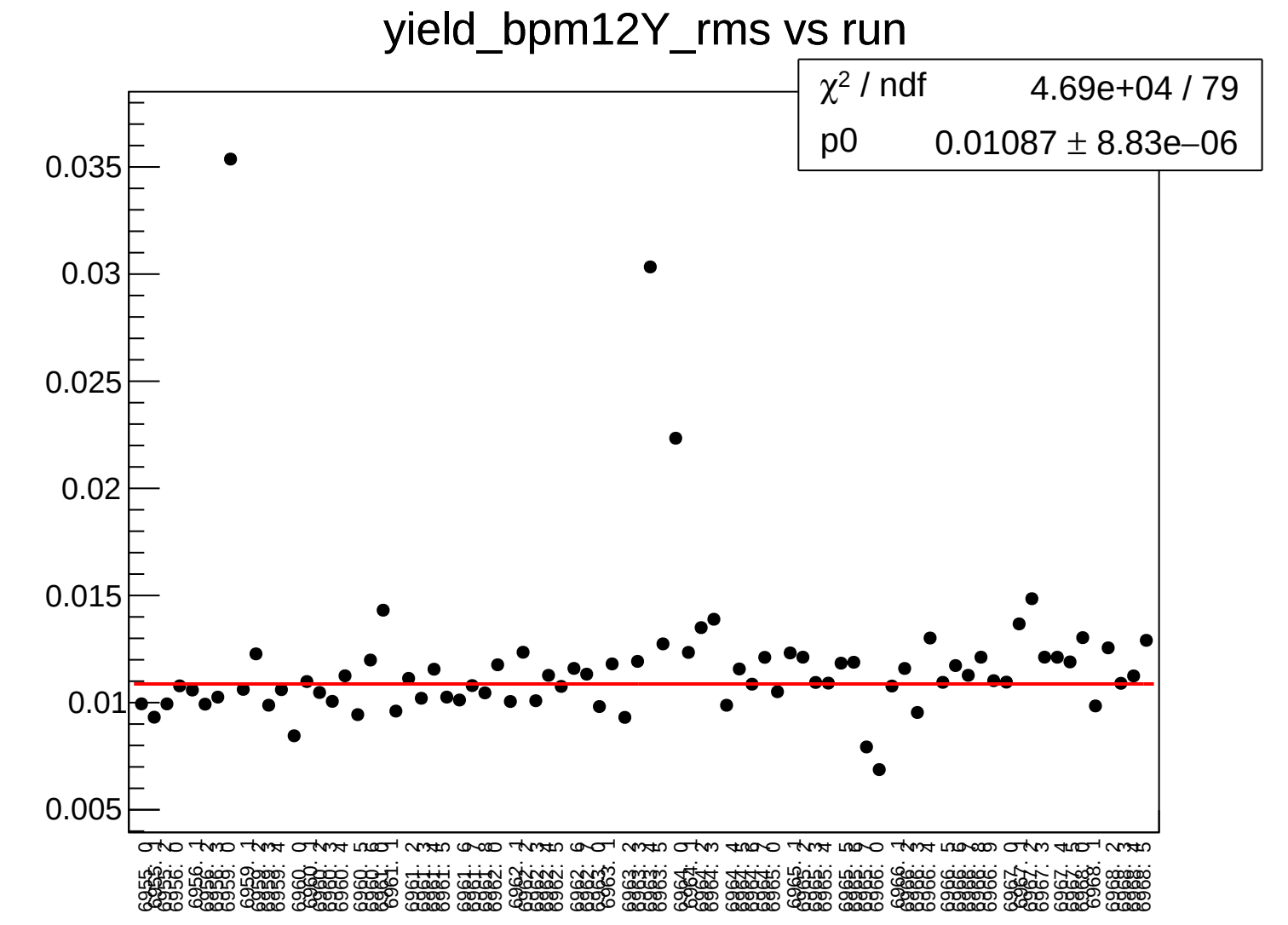

yield_bpm12X_mean vs run
χ² / ndf 6.527e+04 / 79
p0 −1.402 ± 5.652e−05
−1.25
−1.3
−1.35
−1.4
−1.45
−1.5
pull
Entries 80
Mean 64.3
Std Dev 32.39
140
120
100
80
60
40
20
0
−20
−40
−60
−80

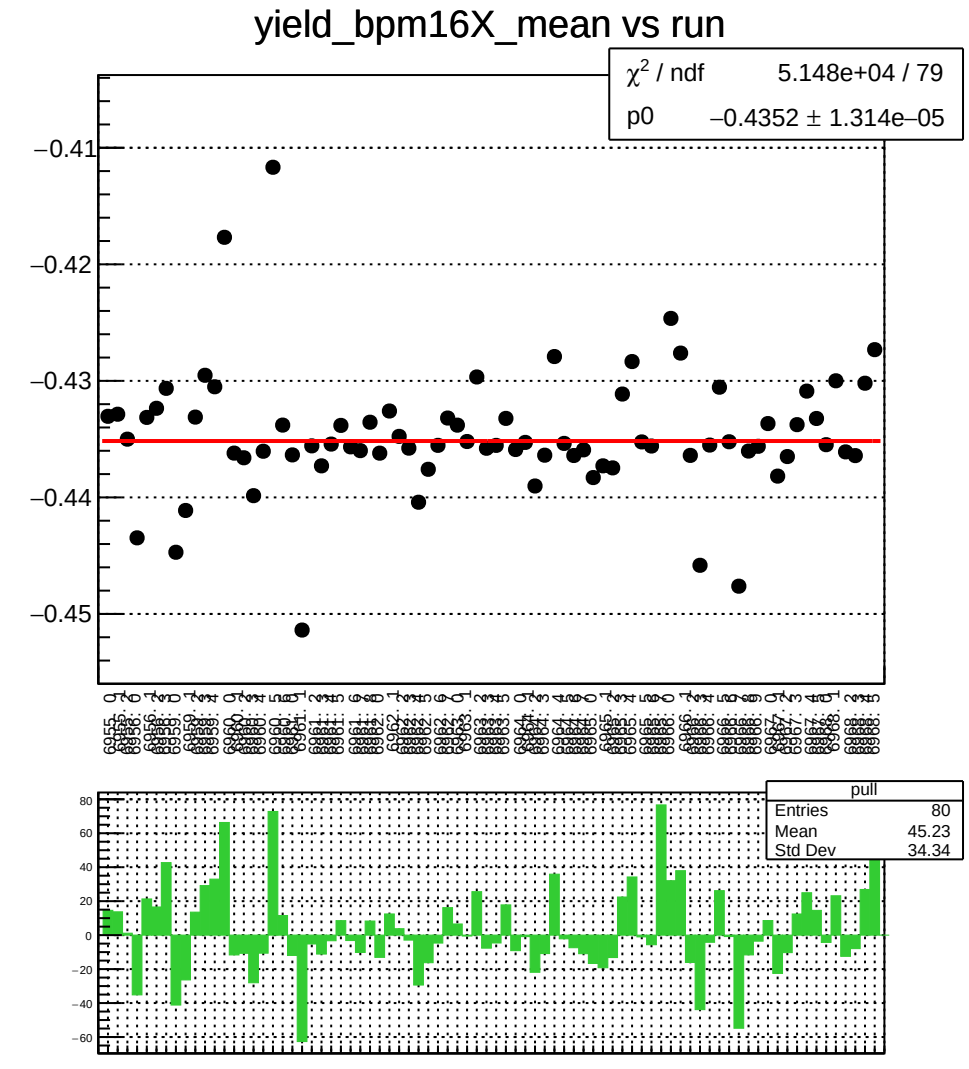

pull1D
Entries 80
Mean −1.95
Std Dev 4.698
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

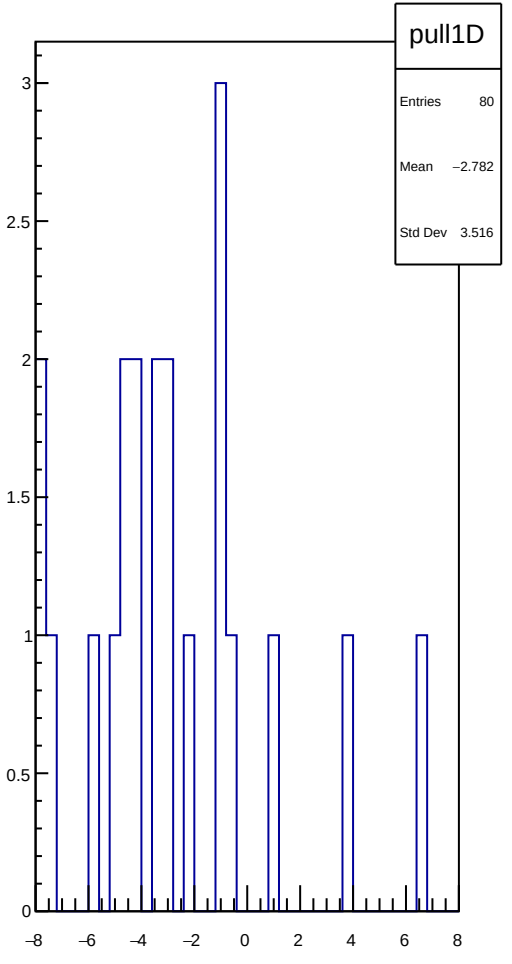

yield_bpm12X_rms vs run
χ² / ndf 2.262e+05 / 79
p0 0.04621 ± 3.996e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

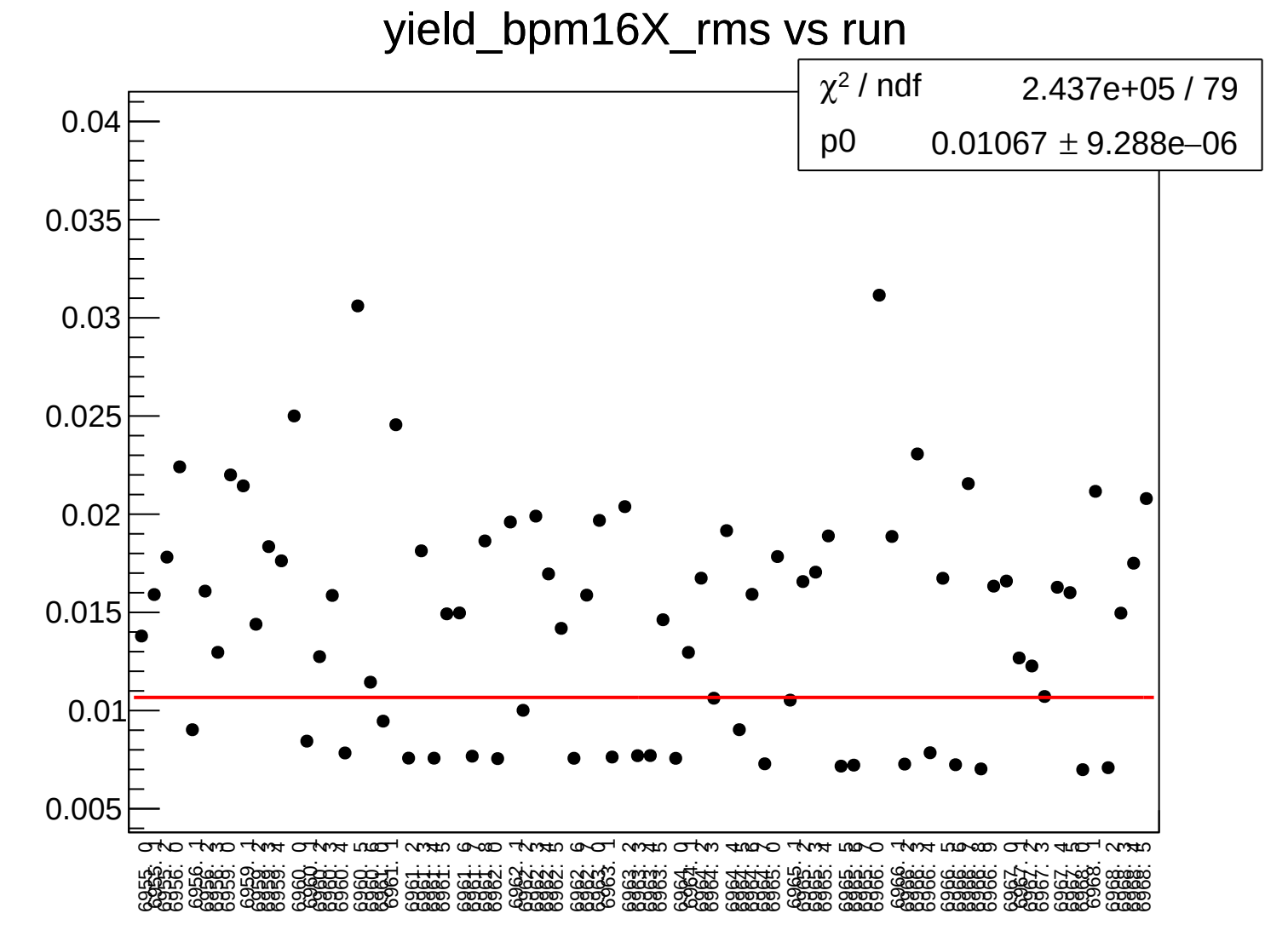

yield_bpm12Y_mean vs run
χ² / ndf 2.368e+05 / 79
p0 1.387 ± 1.249e−05
1.4
1.395
1.39
1.385
1.38
1.375
1.37
pull
Entries 80
Mean 156.9
Std Dev 138.4
150
100
50
0
−50
−100

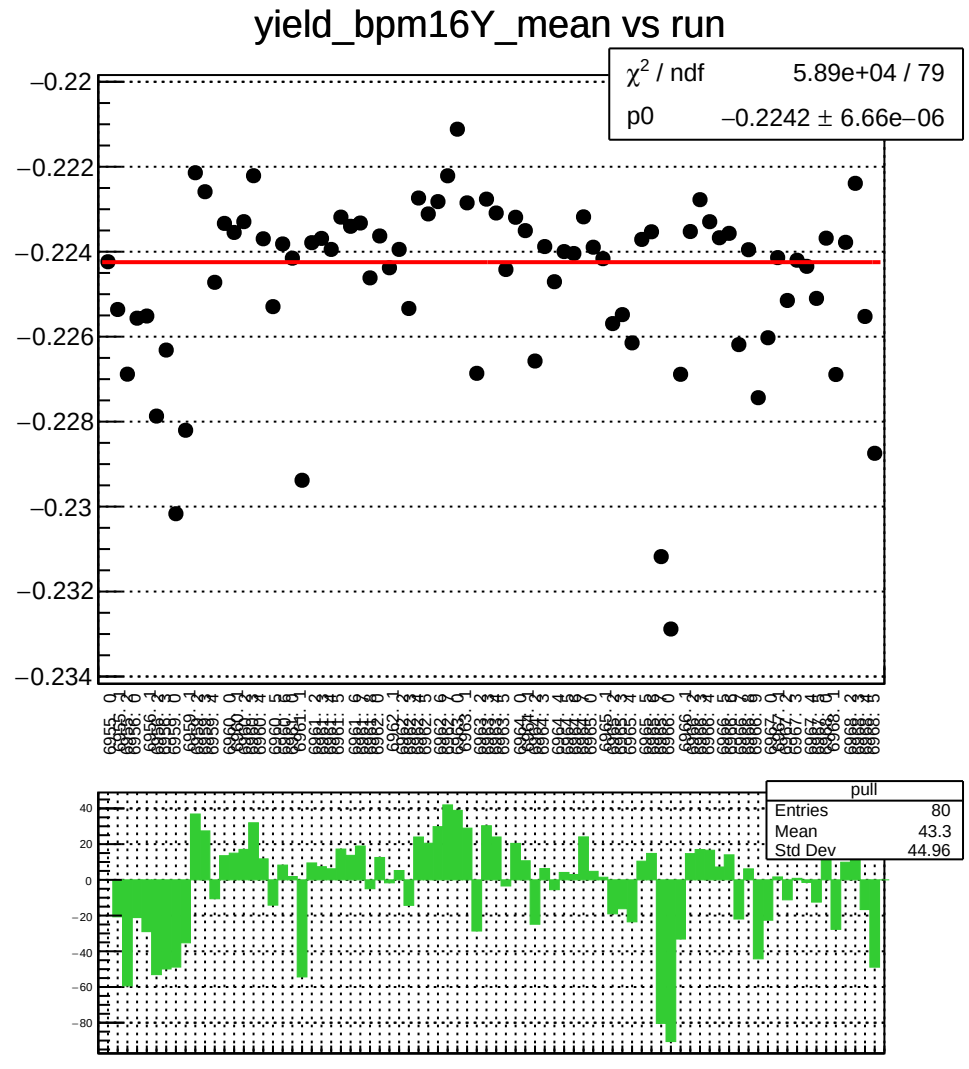

pull1D
Entries 80
Mean 1.343
Std Dev 3.553
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

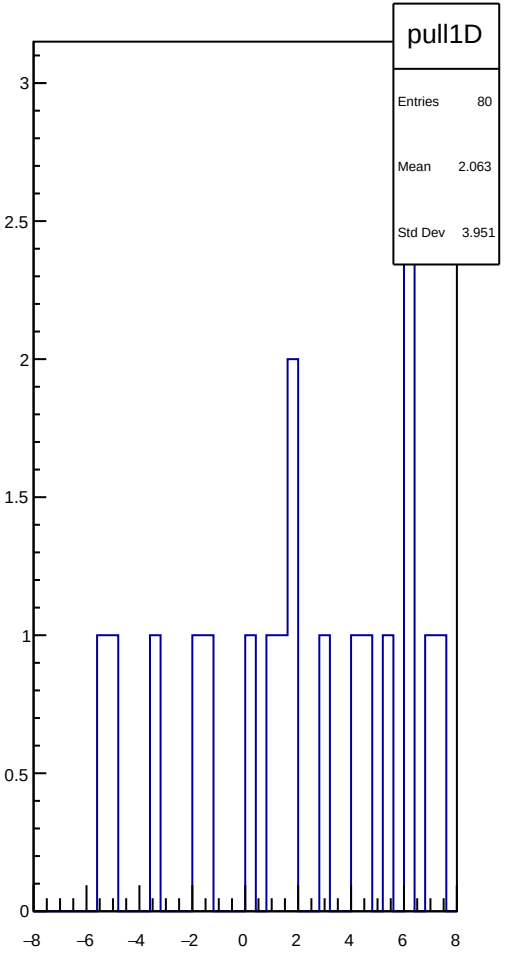

yield_bpm12Y_rms vs run
χ² / ndf 4.69e+04 / 79
p0 0.01087 ± 8.83e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

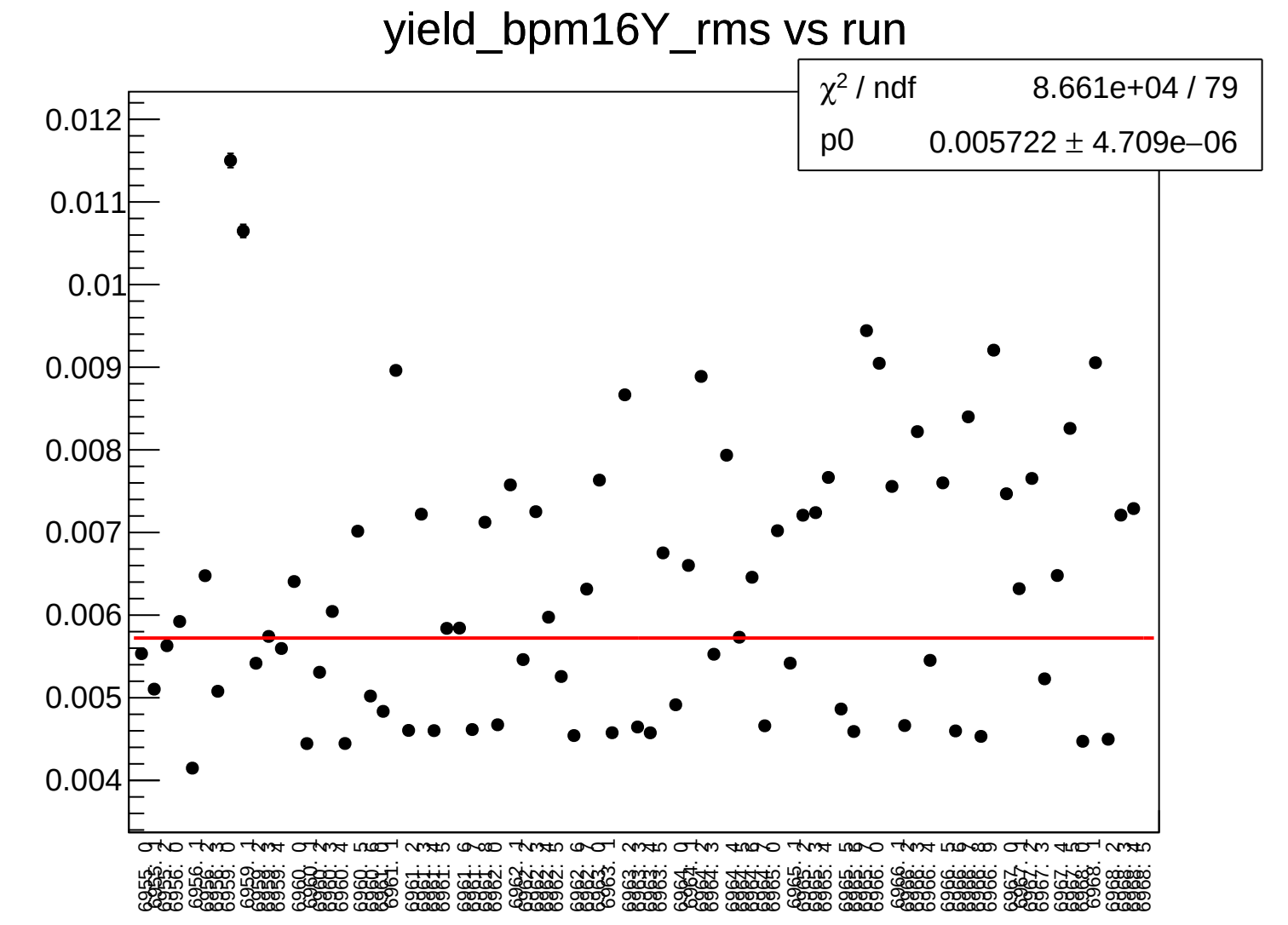

yield_bpm16X_mean vs run
χ² / ndf 5.148e+04 / 79
p0 −0.4352 ± 1.314e−05
−0.41
−0.42
−0.43
−0.44
−0.45
pull
Entries 80
Mean 45.23
Std Dev 34.34
80
60
40
20
0
−20
−40
−60

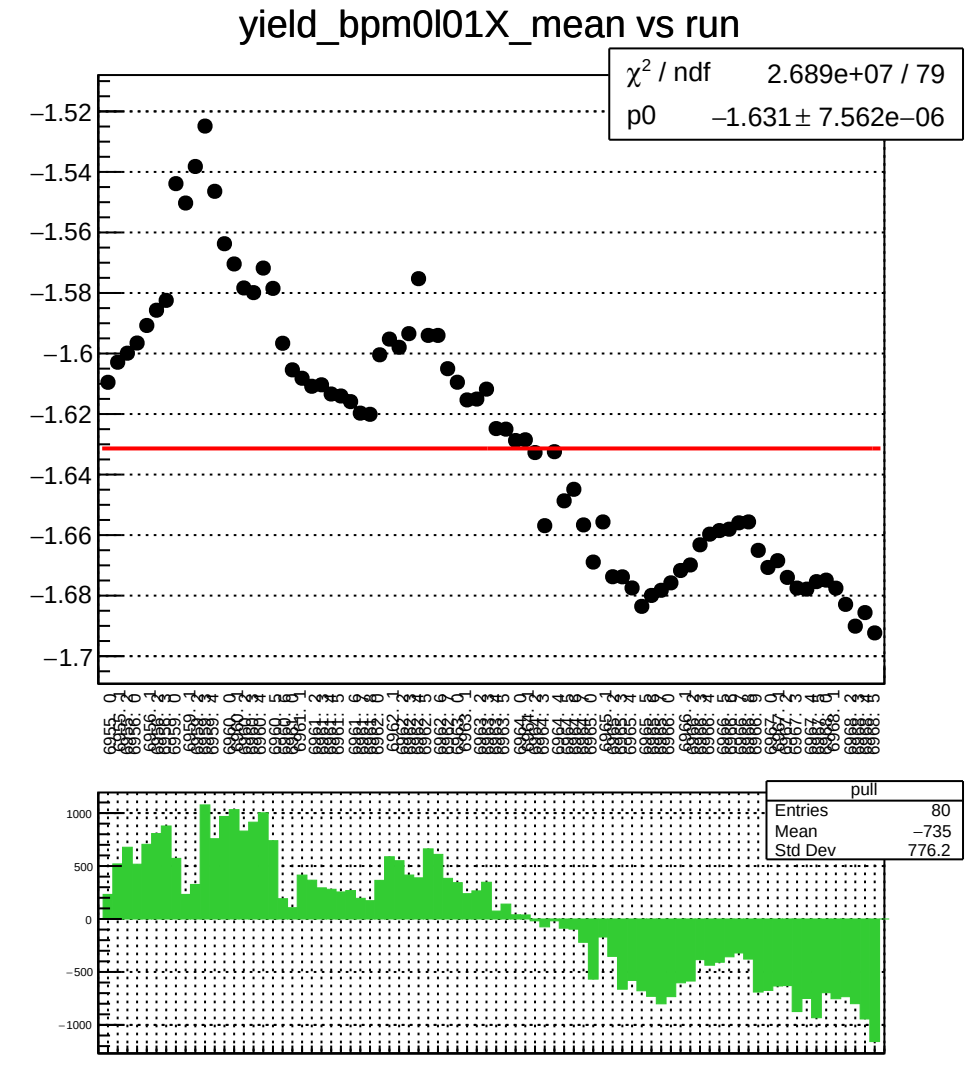

pull1D
Entries 80
Mean −2.782
Std Dev 3.516
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

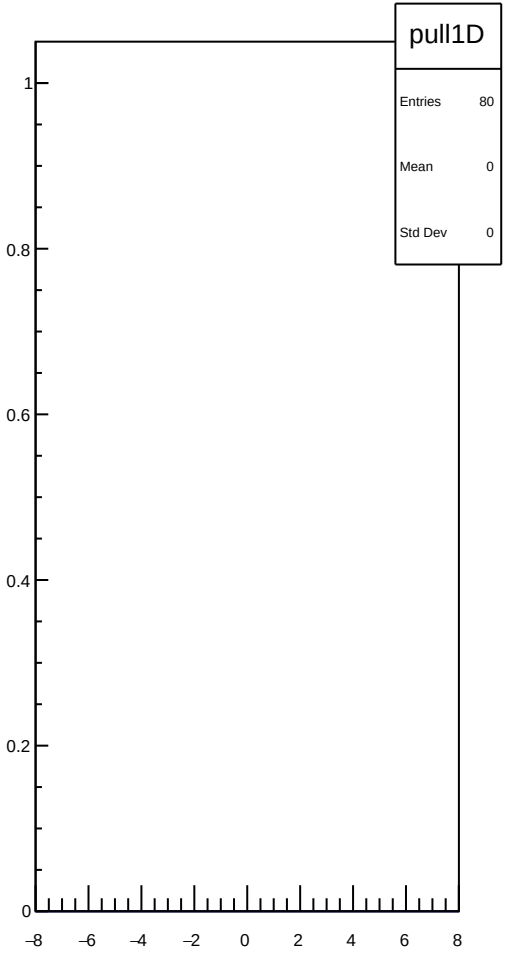

yield_bpm16X_rms vs run
χ² / ndf 2.437e+05 / 79
p0 0.01067 ± 9.288e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

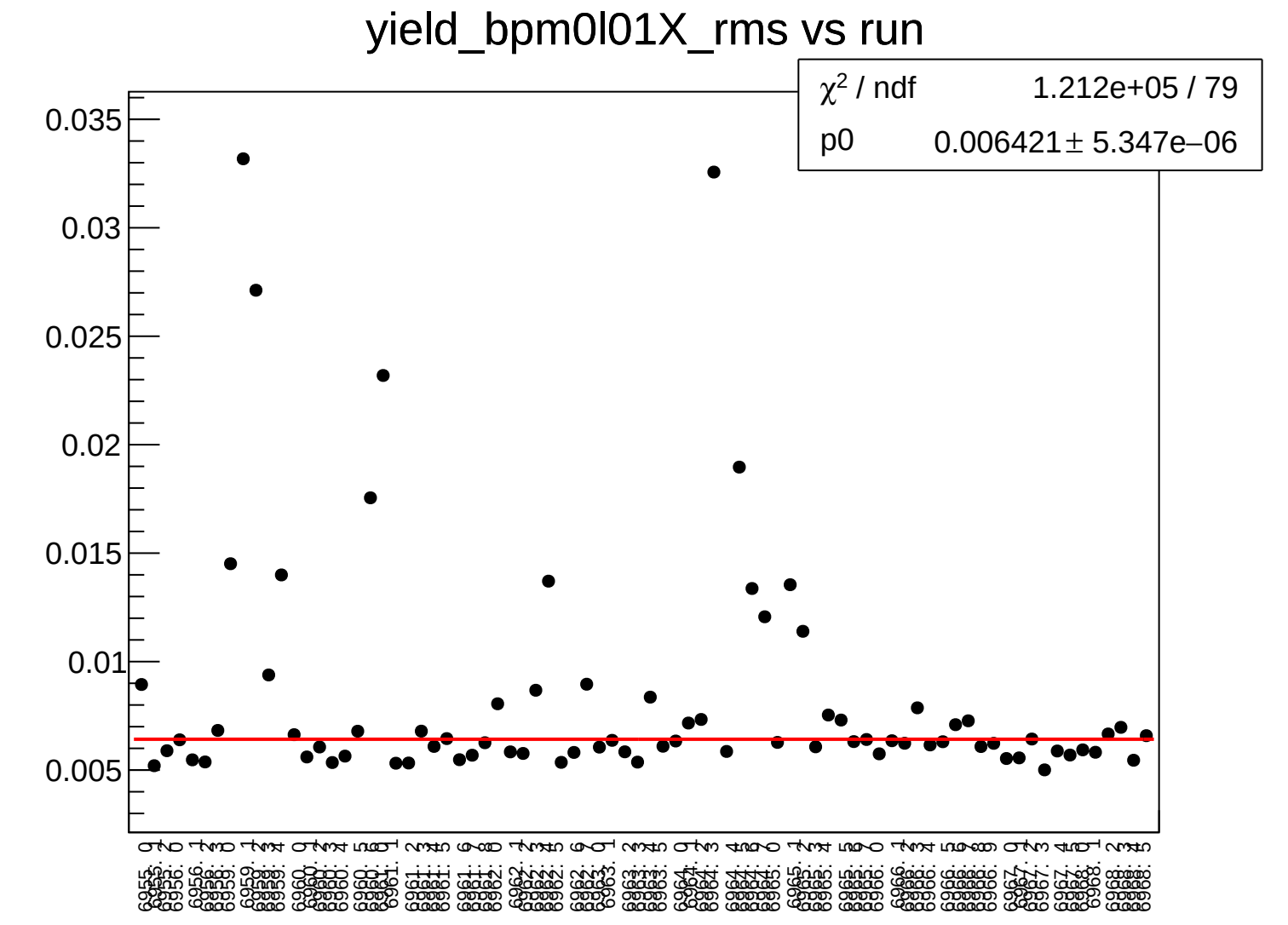

yield_bpm16Y_mean vs run
χ² / ndf 5.89e+04 / 79
p0 −0.2242 ± 6.66e−06
−0.22
−0.222
−0.224
−0.226
−0.228
−0.23
−0.232
−0.234
pull
Entries 80
Mean 43.3
Std Dev 44.96
40
20
0
−20
−40
−60
−80

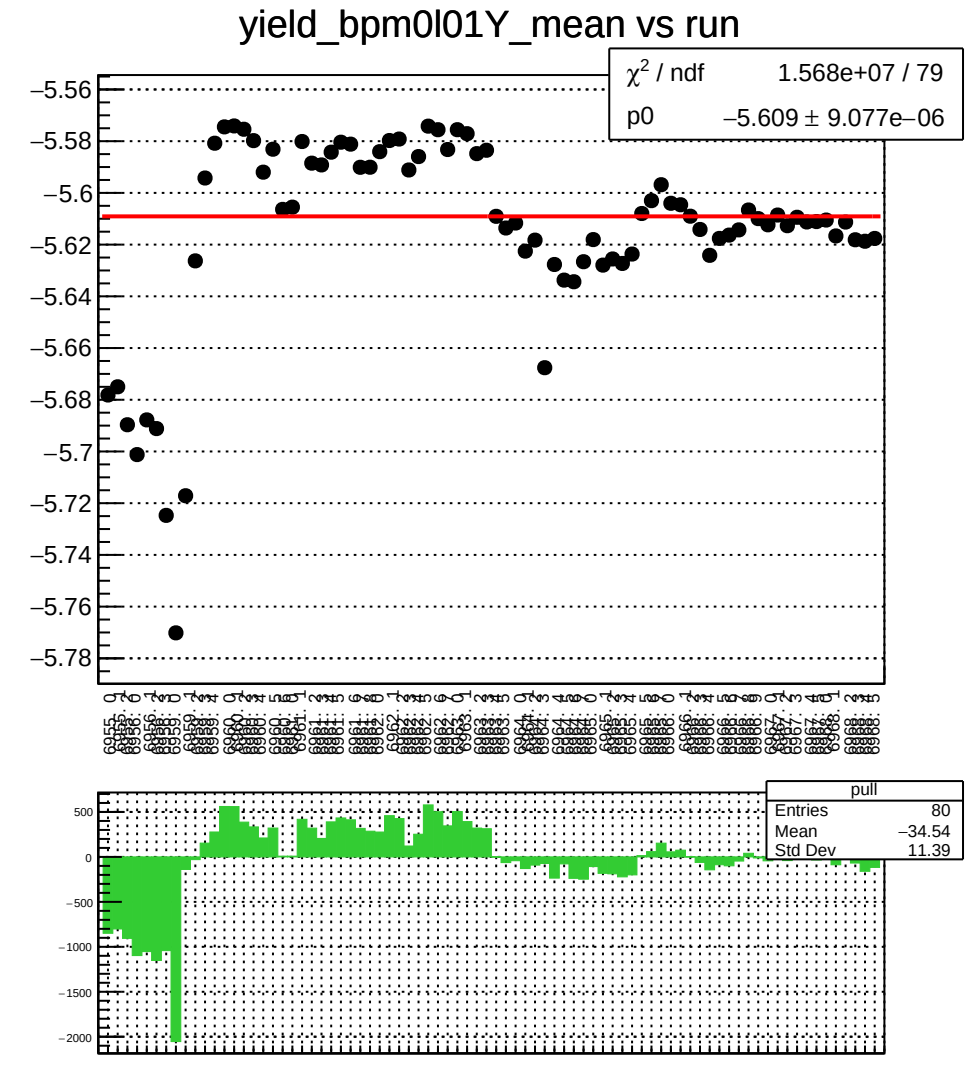

pull1D
Entries 80
Mean 2.063
Std Dev 3.951
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

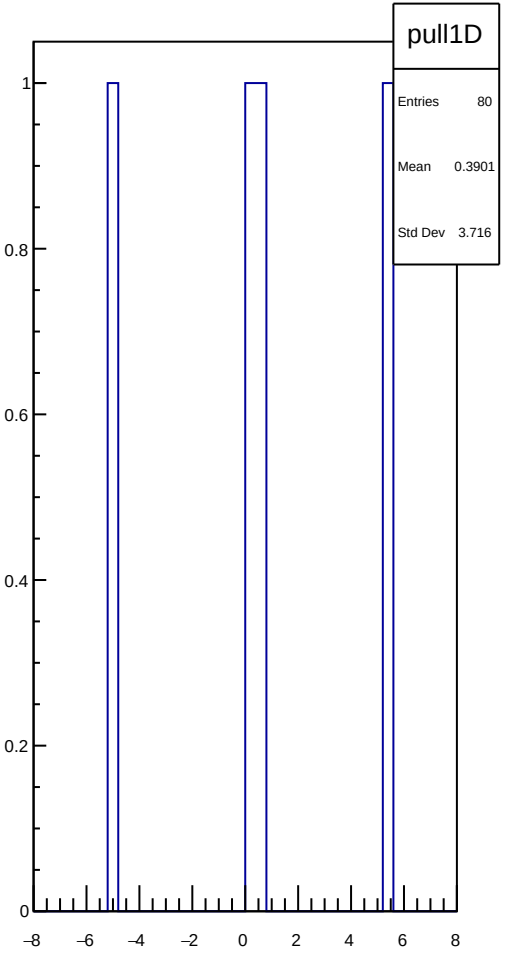

yield_bpm16Y_rms vs run
χ² / ndf 8.661e+04 / 79
p0 0.005722 ± 4.709e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

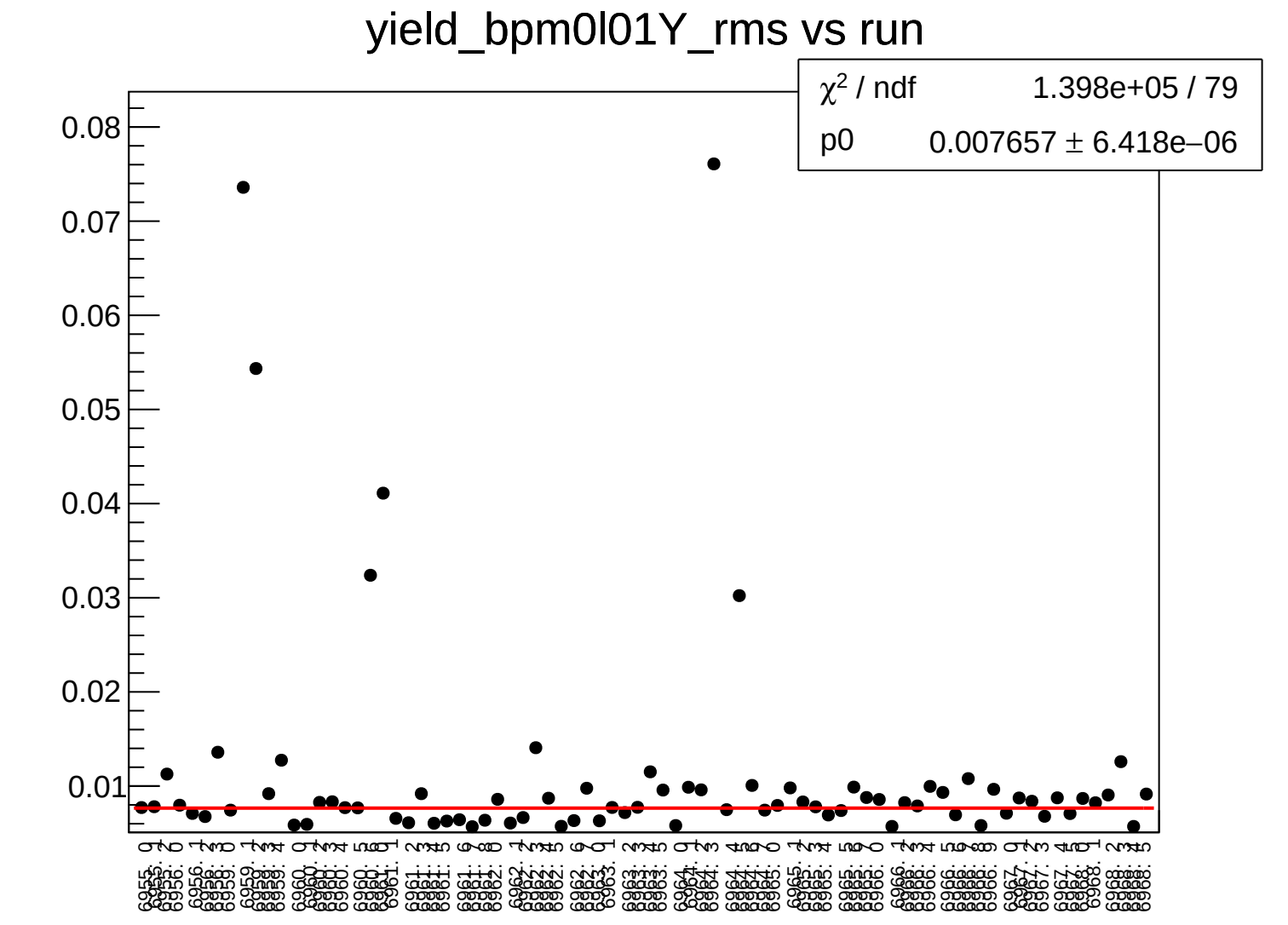

yield_bpm0l01X_mean vs run
χ² / ndf 2.689e+07 / 79
p0 −1.631 ± 7.562e−06
−1.52
−1.54
−1.56
−1.58
−1.6
−1.62
−1.64
−1.66
−1.68
−1.7
pull
Entries 80
Mean −735
Std Dev 776.2
1000
500
0
−500
−1000

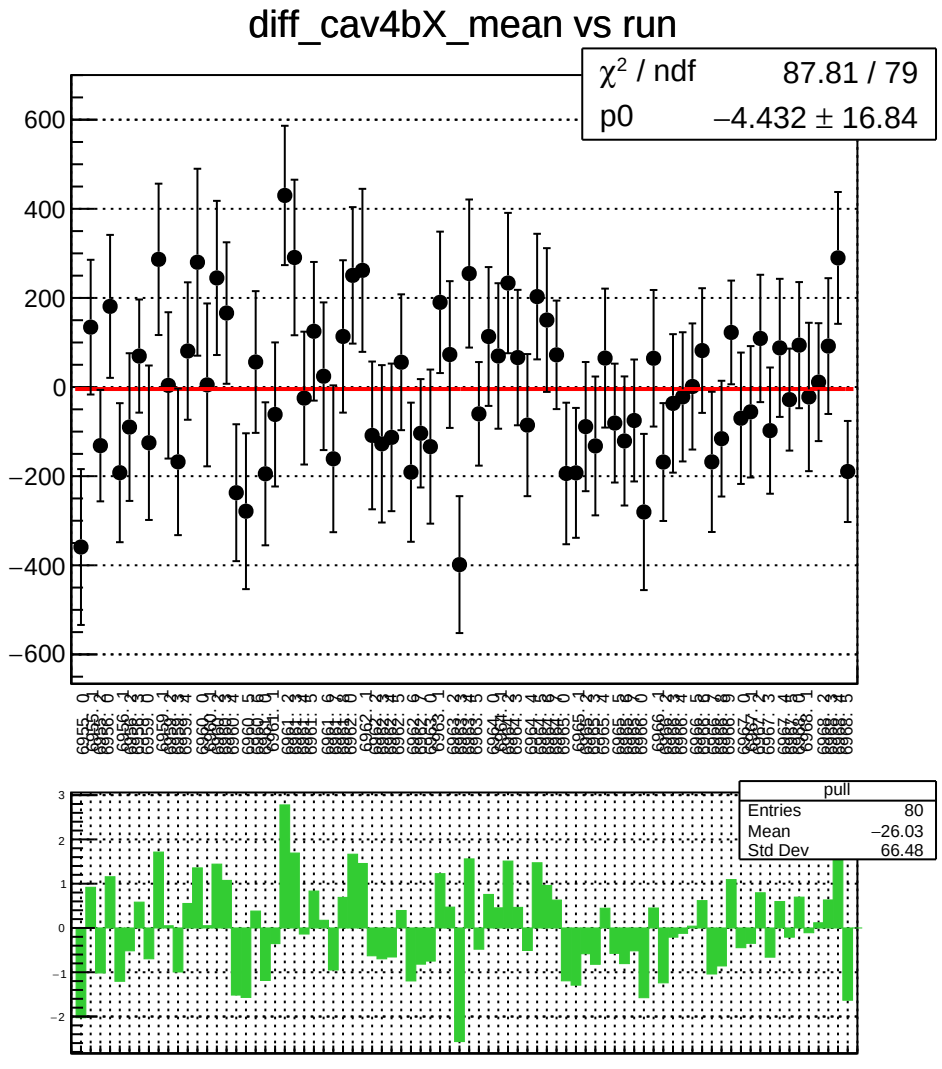

pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

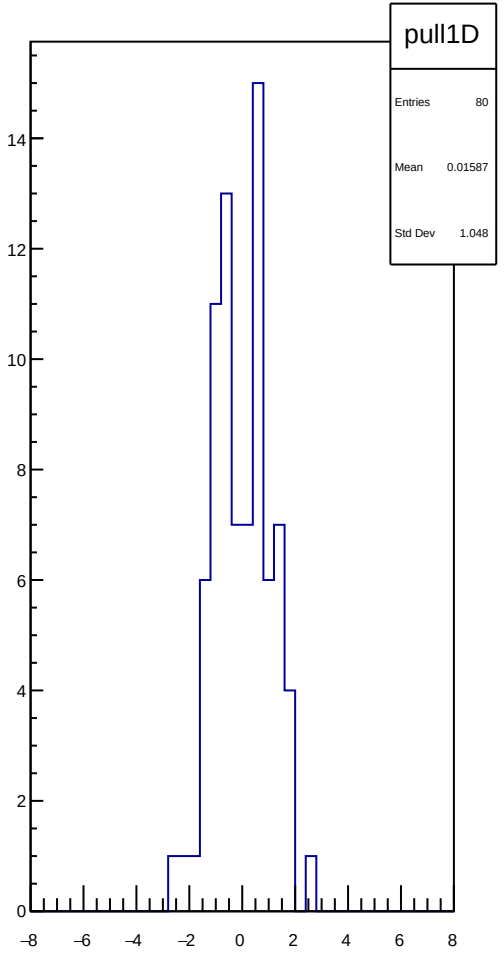

yield_bpm0l01X_rms vs run
χ² / ndf 1.212e+05 / 79
p0 0.006421 ± 5.347e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

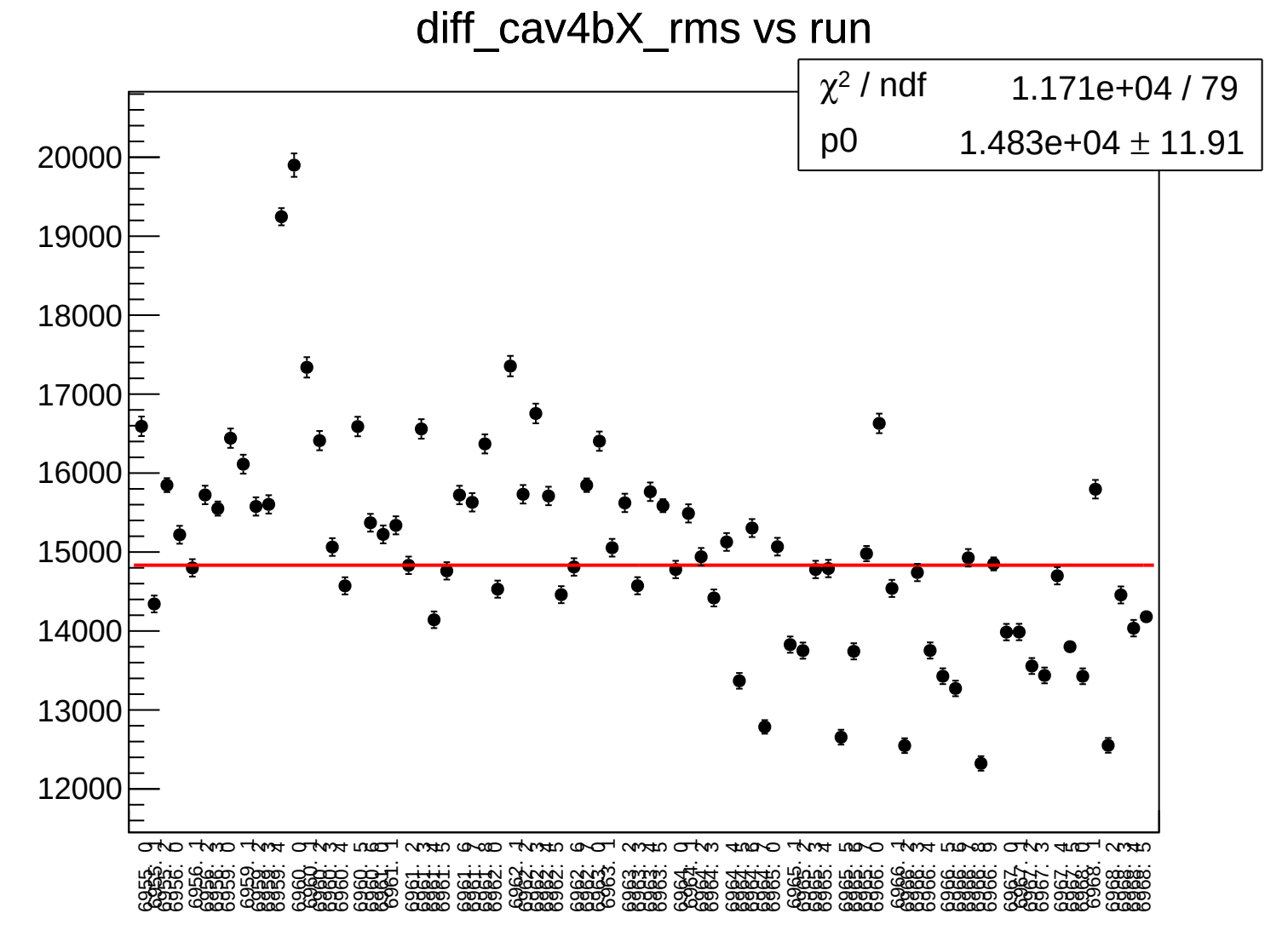

yield_bpm0l01Y_mean vs run
χ² / ndf 1.568e+07 / 79
p0 −5.609 ± 9.077e−06
pull
Entries 80
Mean −34.54
Std Dev 11.39

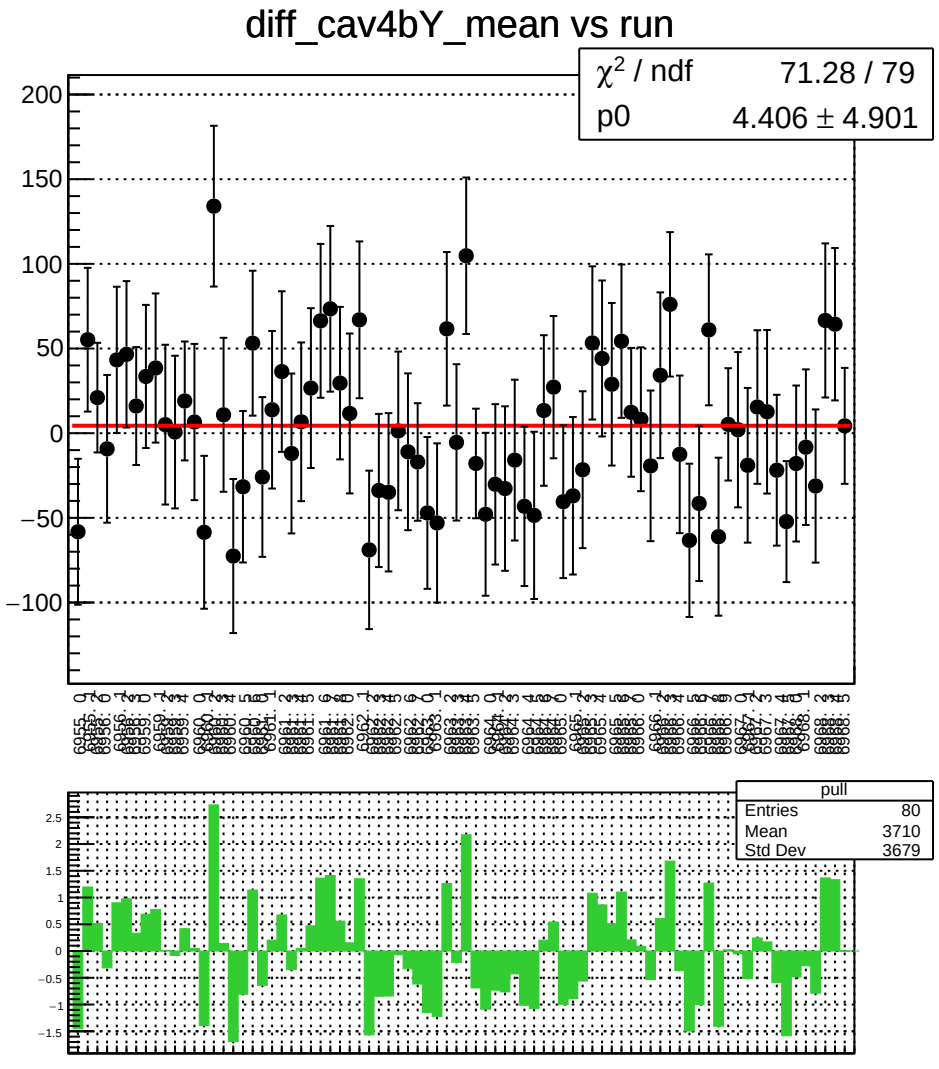

pull1D
Entries 80
Mean 0.3901
Std Dev 3.716

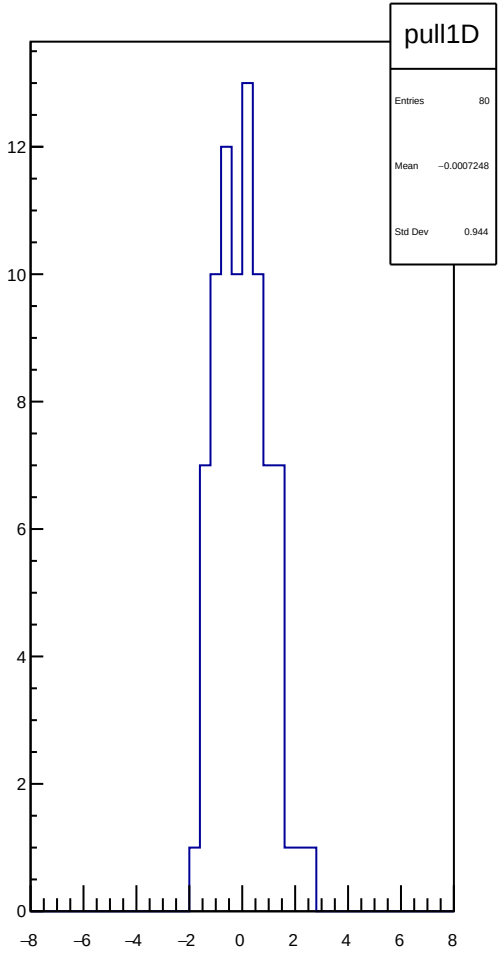

yield_bpm0l01Y_rms vs run
χ² / ndf 1.398e+05 / 79
p0 0.007657 ± 6.418e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

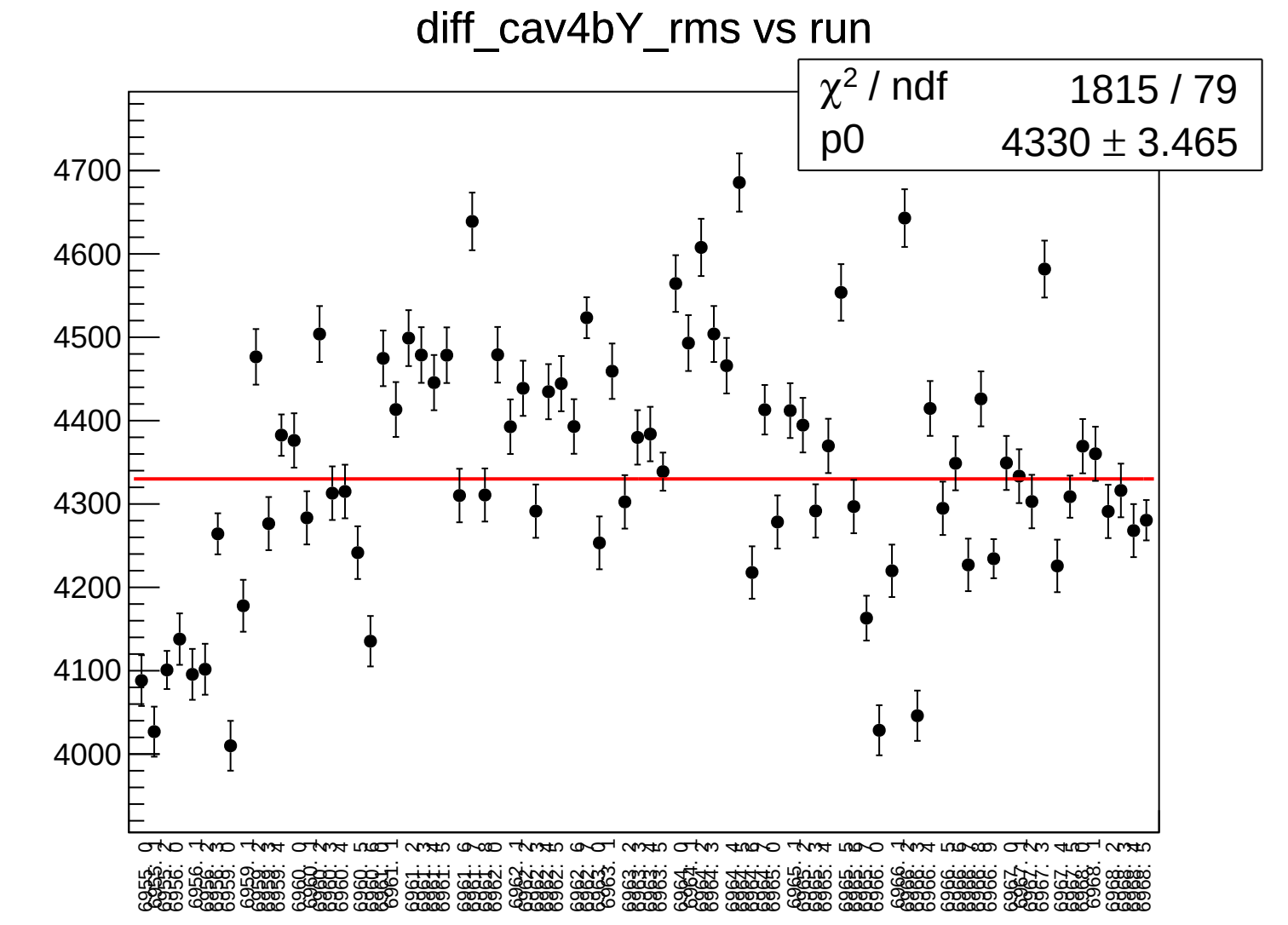

diff_cav4bX_mean vs run
χ² / ndf 87.81 / 79
p0 −4.432 ± 16.84
pull
Entries 80
Mean −26.03
Std Dev 66.48

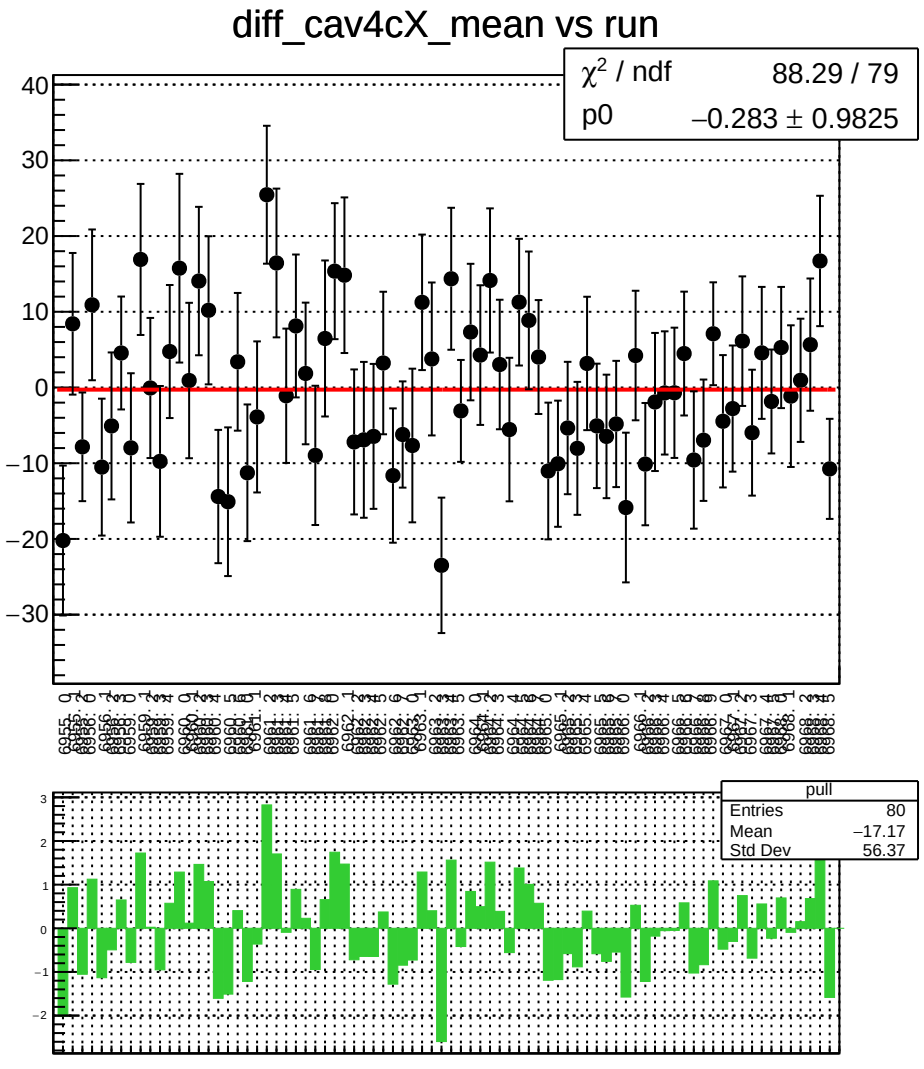

pull1D
Entries 80
Mean 0.01587
Std Dev 1.048

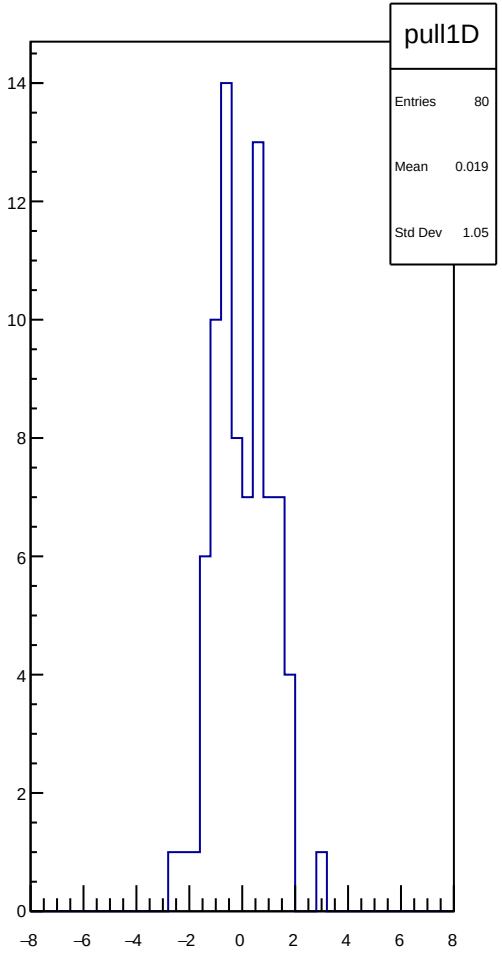

diff_cav4bX_rms vs run
χ² / ndf 1.171e+04 / 79
p0 1.483e+04 ± 11.91
20000
19000
18000
17000
16000
15000
14000
13000
12000

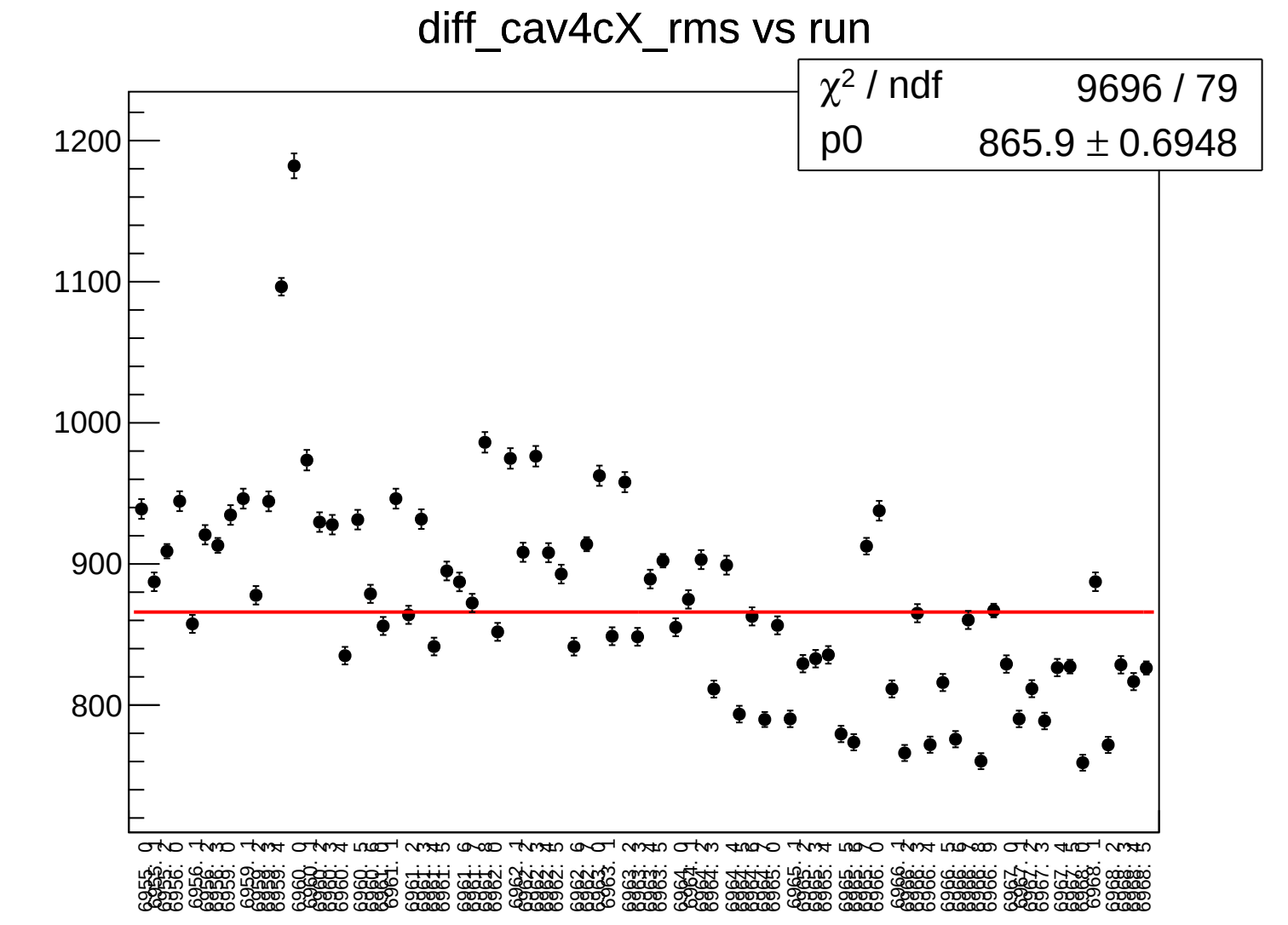

diff_cav4bY_mean vs run
χ^2 / ndf 71.28 / 79
p0 4.406 ± 4.901
pull
Entries 80
Mean 3710
Std Dev 3679

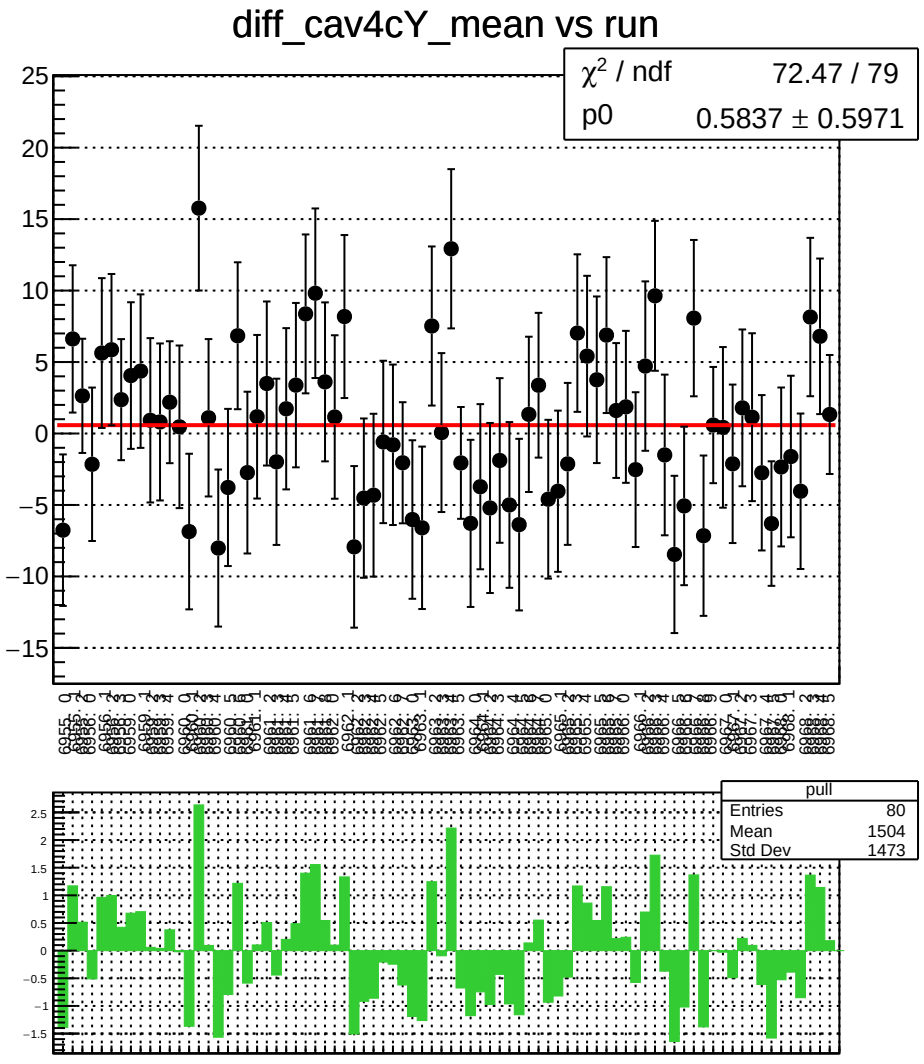

pull1D
Entries 80
Mean −0.0007248
Std Dev 0.944

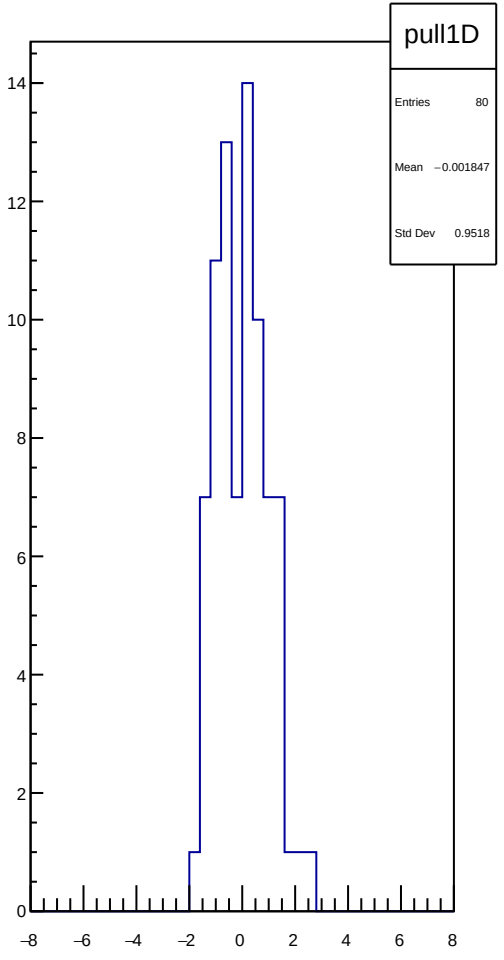

diff_cav4bY_rms vs run
χ² / ndf 1815 / 79
p0 4330 ± 3.465
4700
4600
4500
4400
4300
4200
4100
4000

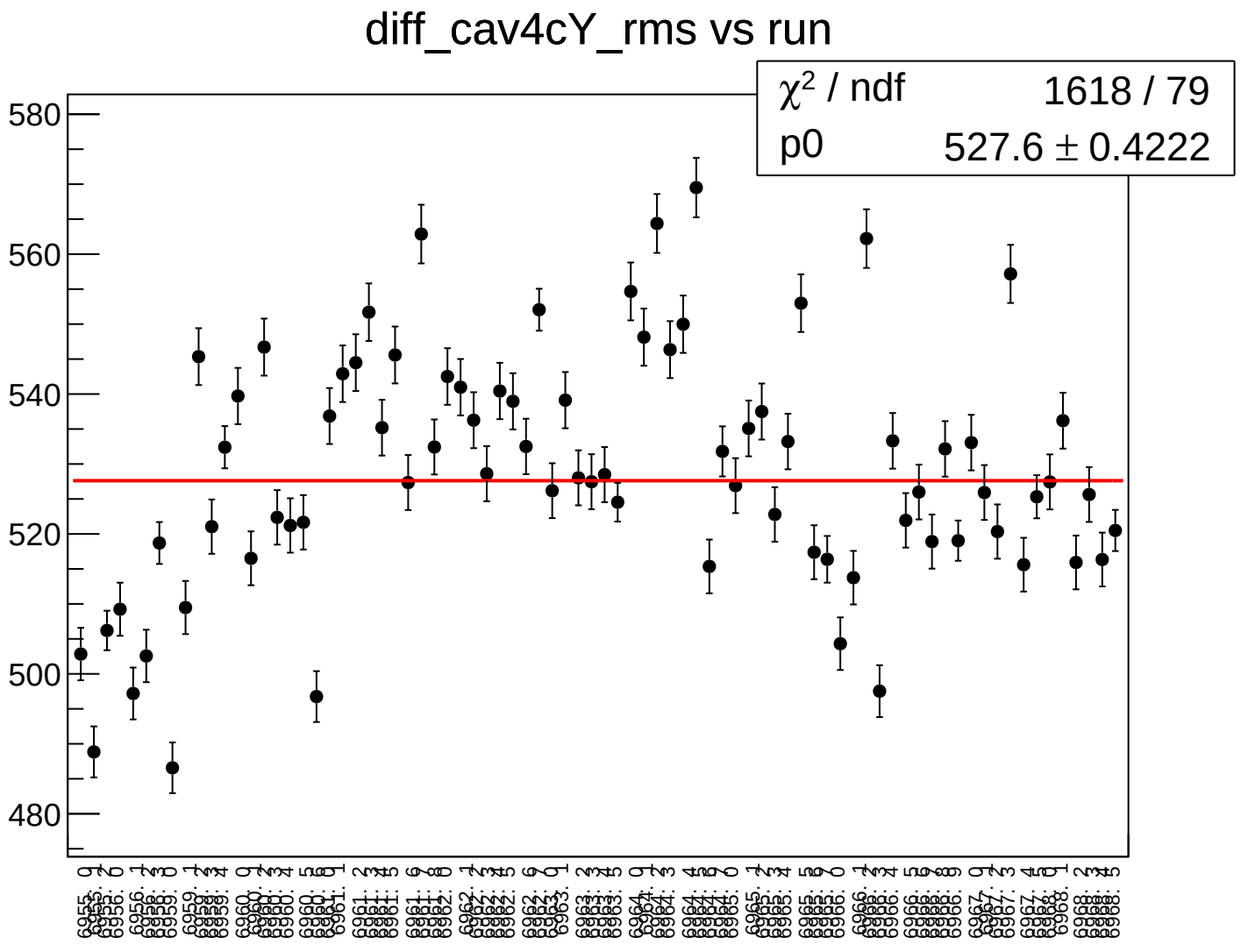

diff_cav4cX_mean vs run
χ² / ndf 88.29 / 79
p0 −0.283 ± 0.9825
pull
Entries 80
Mean −17.17
Std Dev 56.37

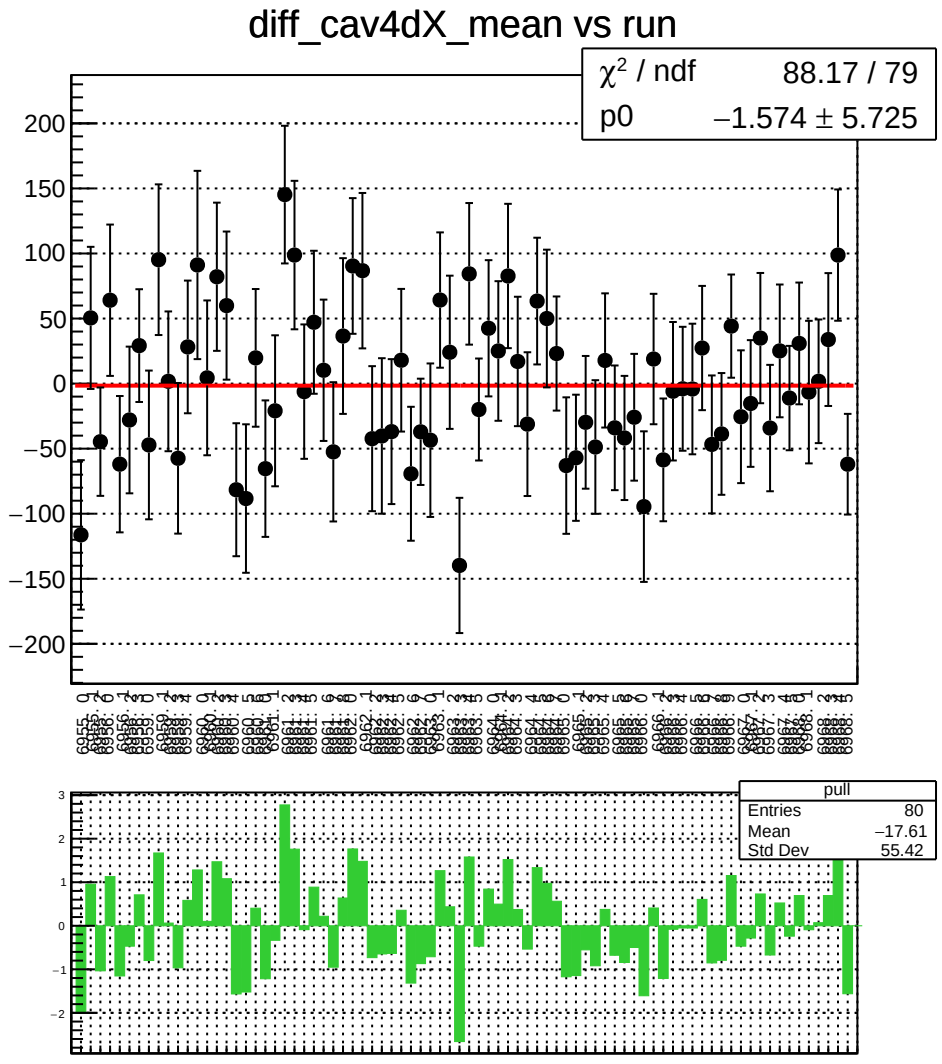

pull1D
Entries 80
Mean 0.019
Std Dev 1.05

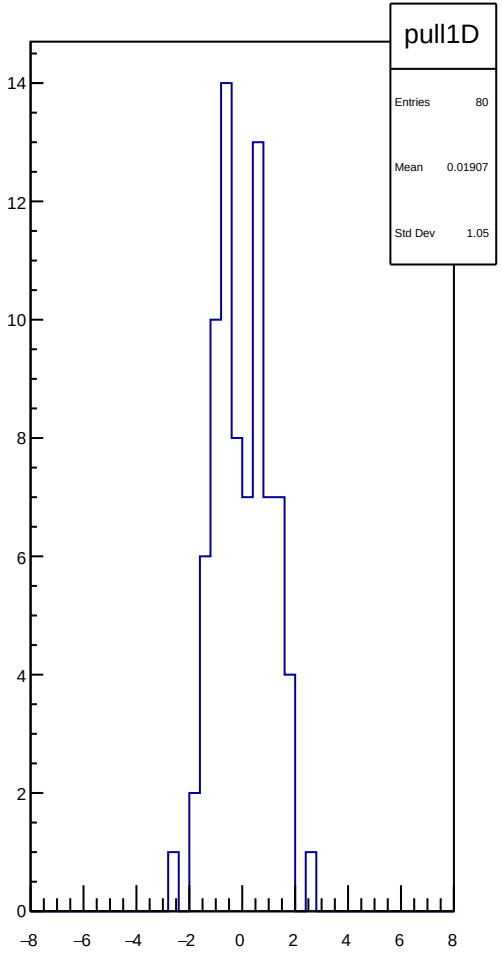

diff_cav4cX_rms vs run
χ² / ndf 9696 / 79
p0 865.9 ± 0.6948
1200
1100
1000
900
800

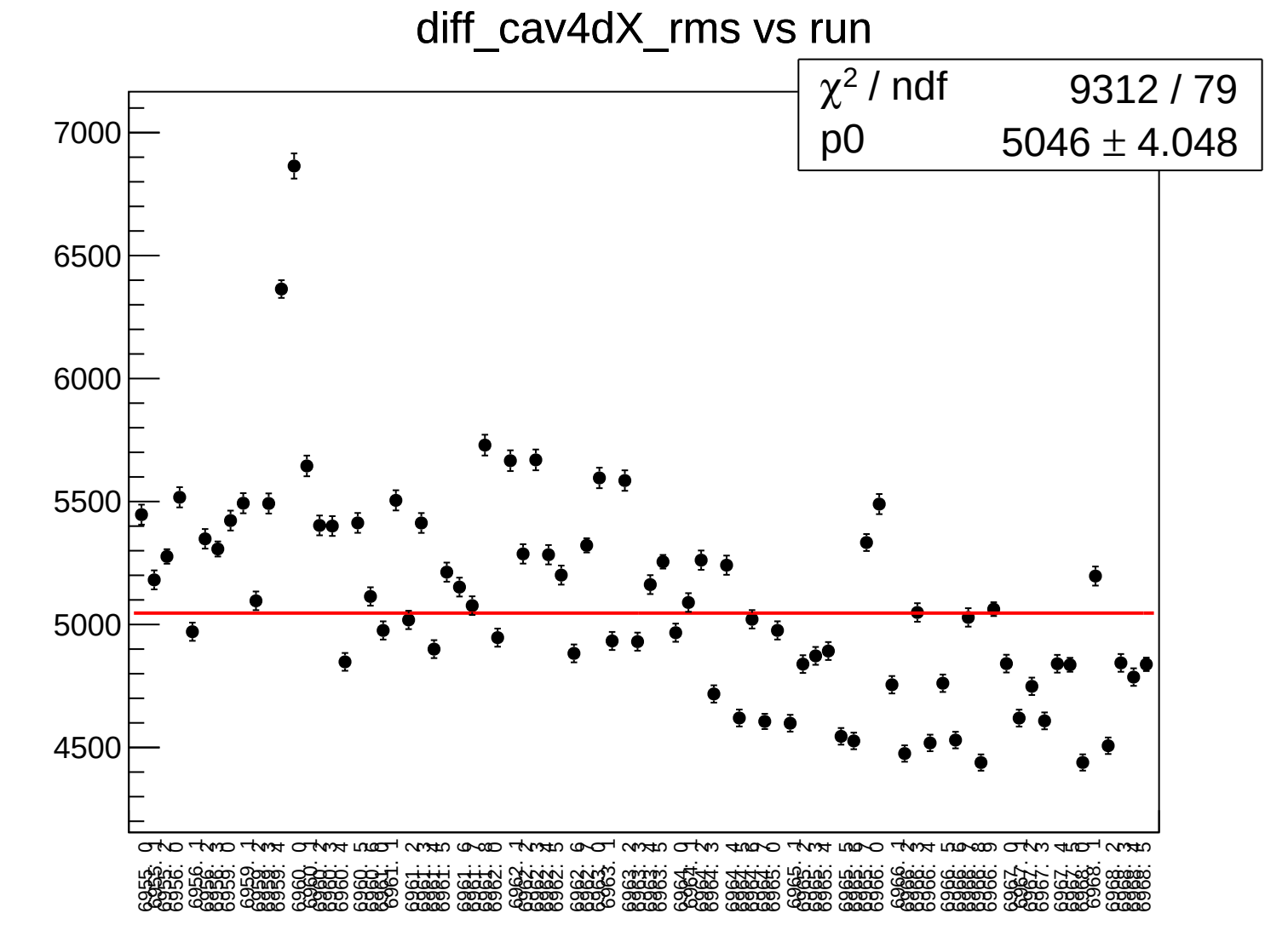

diff_cav4cY_mean vs run
χ² / ndf 72.47 / 79
p0 0.5837 ± 0.5971
pull
Entries 80
Mean 1504
Std Dev 1473

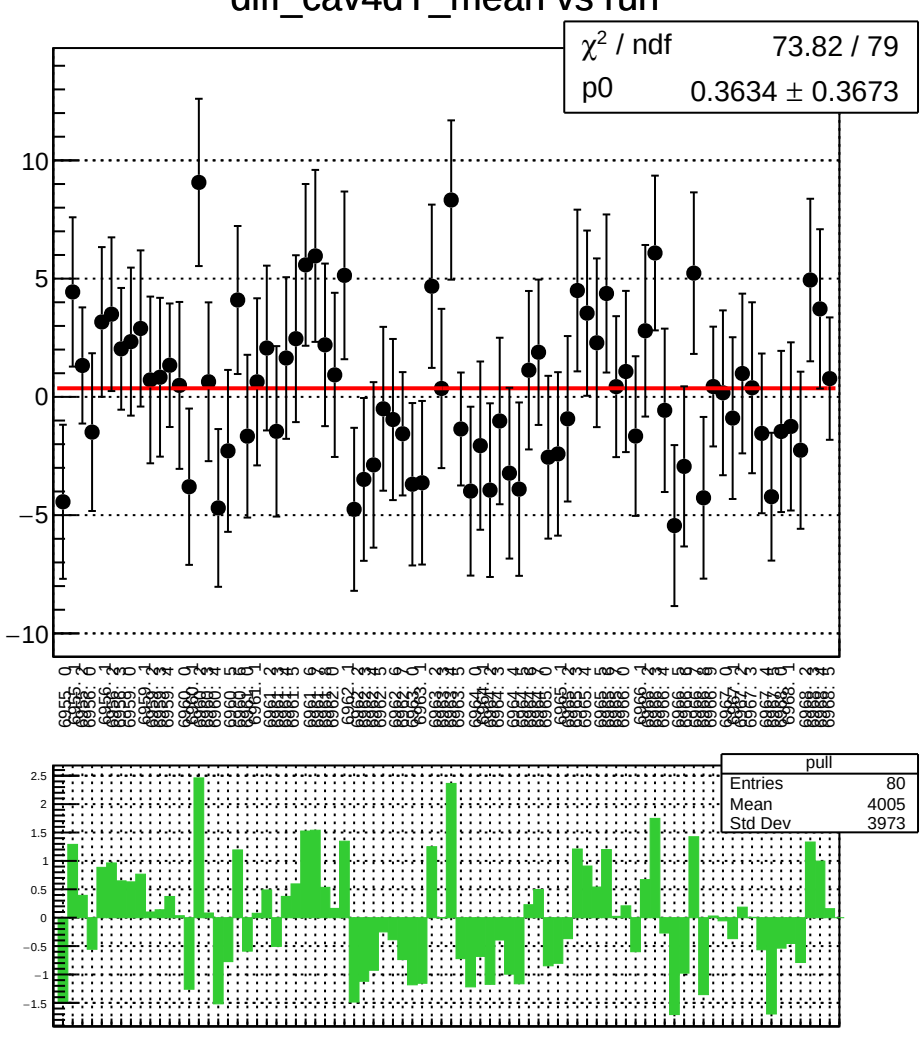

pull1D
Entries 80
Mean −0.001847
Std Dev 0.9518

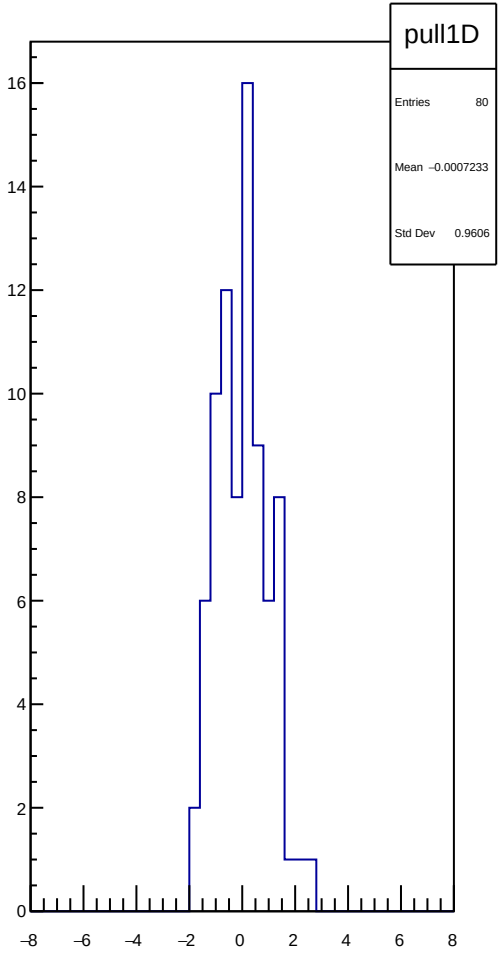

diff_cav4cY_rms vs run
χ² / ndf 1618 / 79
p0 527.6 ± 0.4222
580
560
540
520
500
480

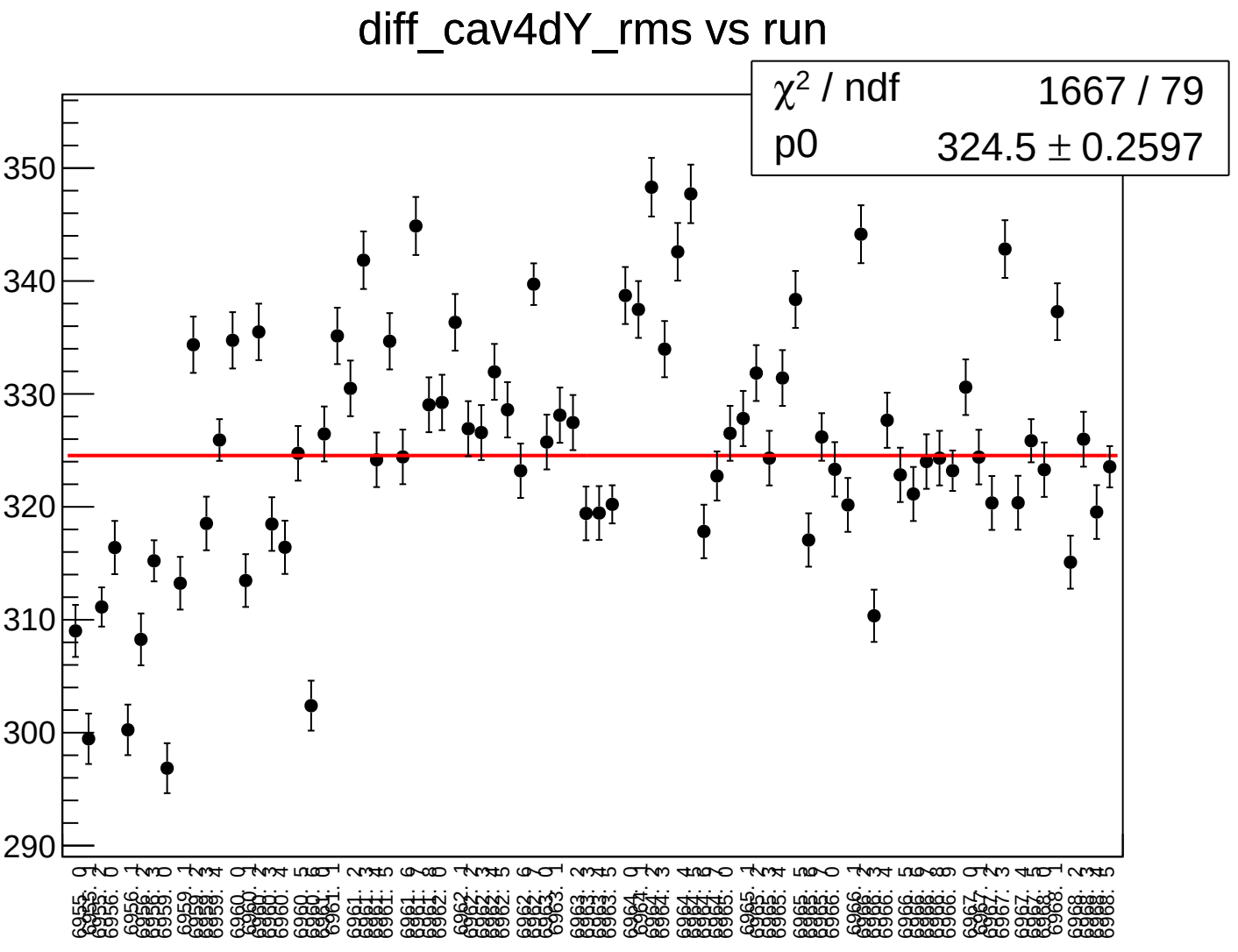

diff_cav4dX_mean vs run
χ² / ndf 88.17 / 79
p0 −1.574 ± 5.725
pull
Entries 80
Mean −17.61
Std Dev 55.42

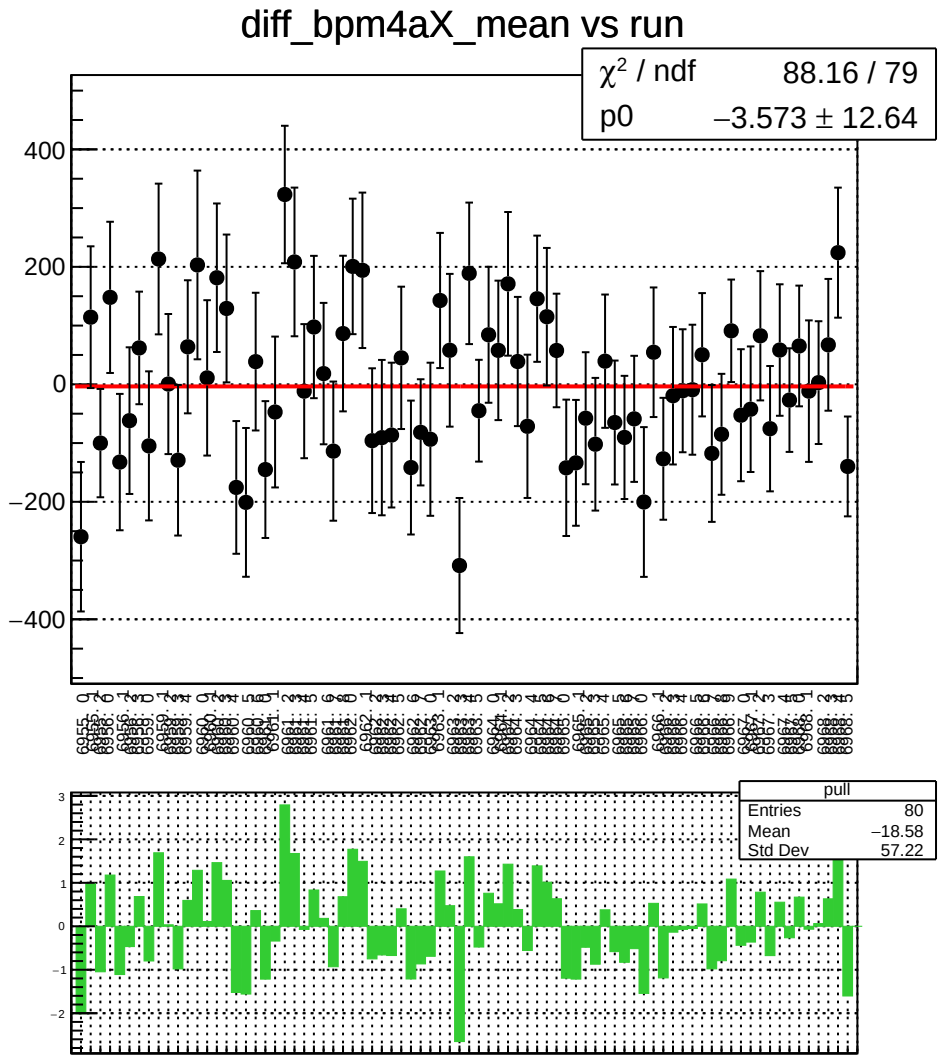

pull1D
Entries 80
Mean 0.01907
Std Dev 1.05

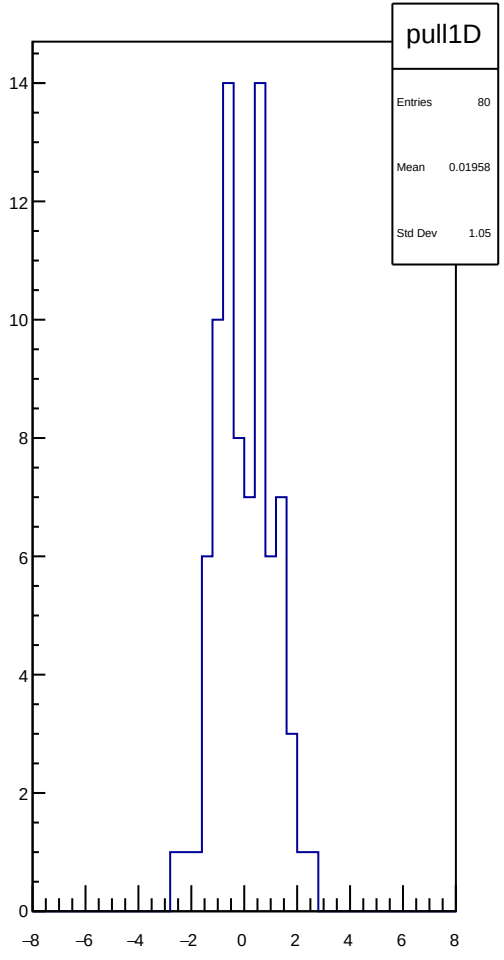

diff_cav4dX_rms vs run
χ² / ndf 9312 / 79
p0 5046 ± 4.048
7000
6500
6000
5500
5000
4500

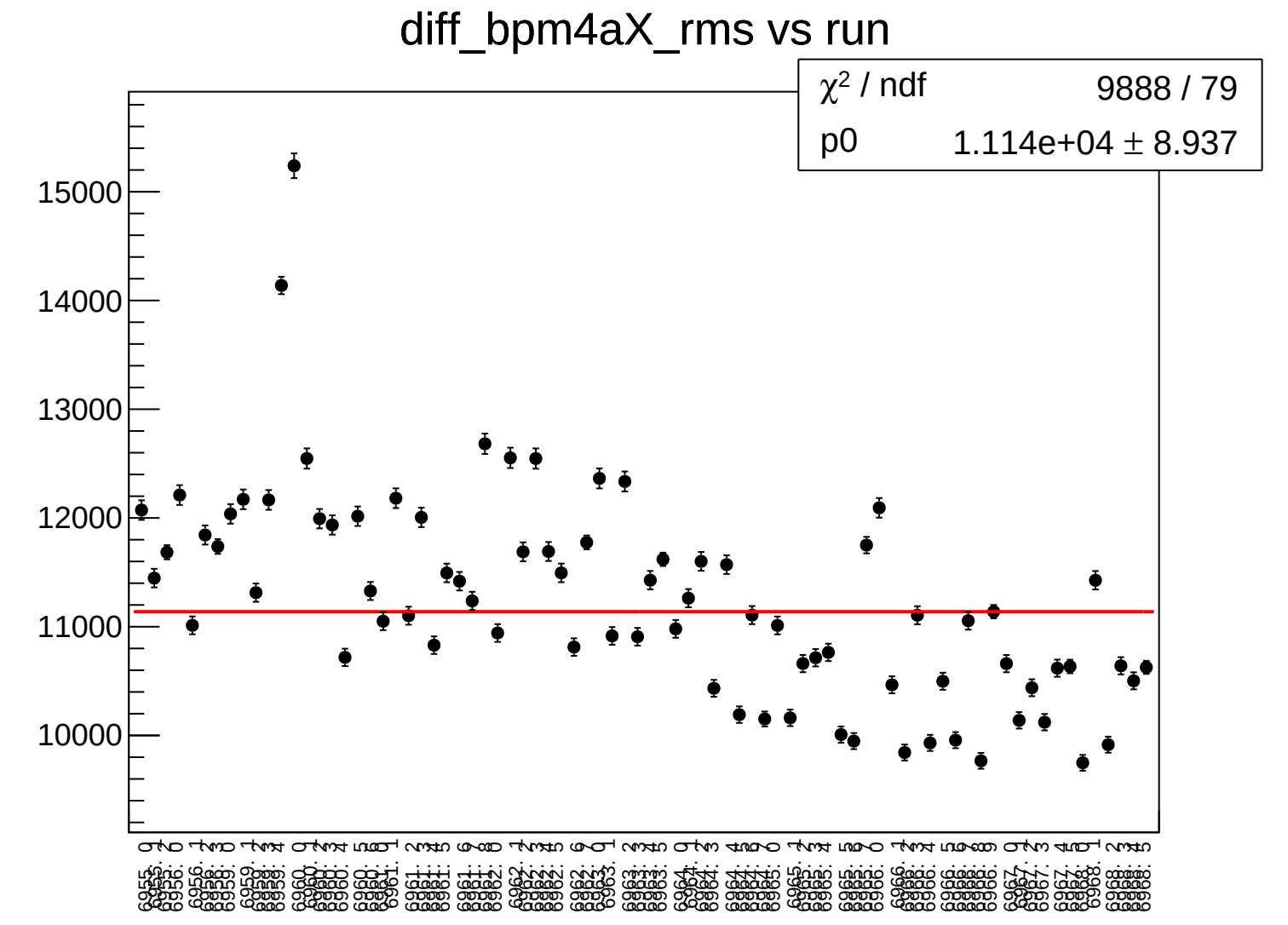

diff_cav4dY_mean vs run
χ² / ndf 73.82 / 79
p0 0.3634 ± 0.3673
pull
Entries 80
Mean 4005
Std Dev 3973

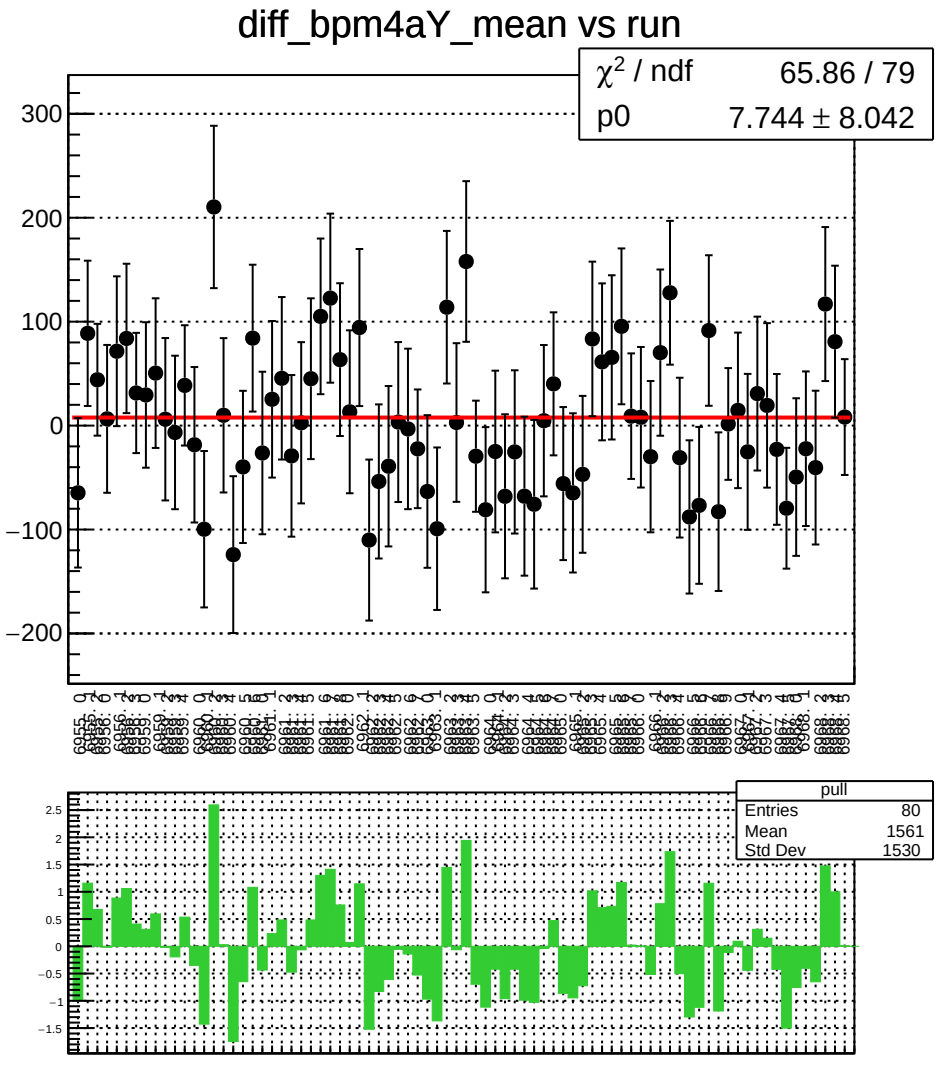

pull1D
Entries 80
Mean −0.0007233
Std Dev 0.9606

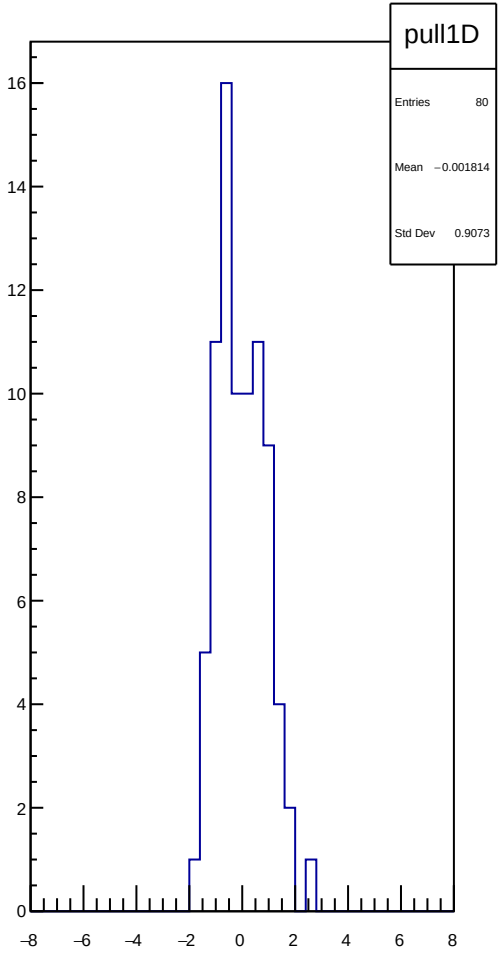

diff_cav4dY_rms vs run
χ² / ndf 1667 / 79
p0 324.5 ± 0.2597
350
340
330
320
310
300
290

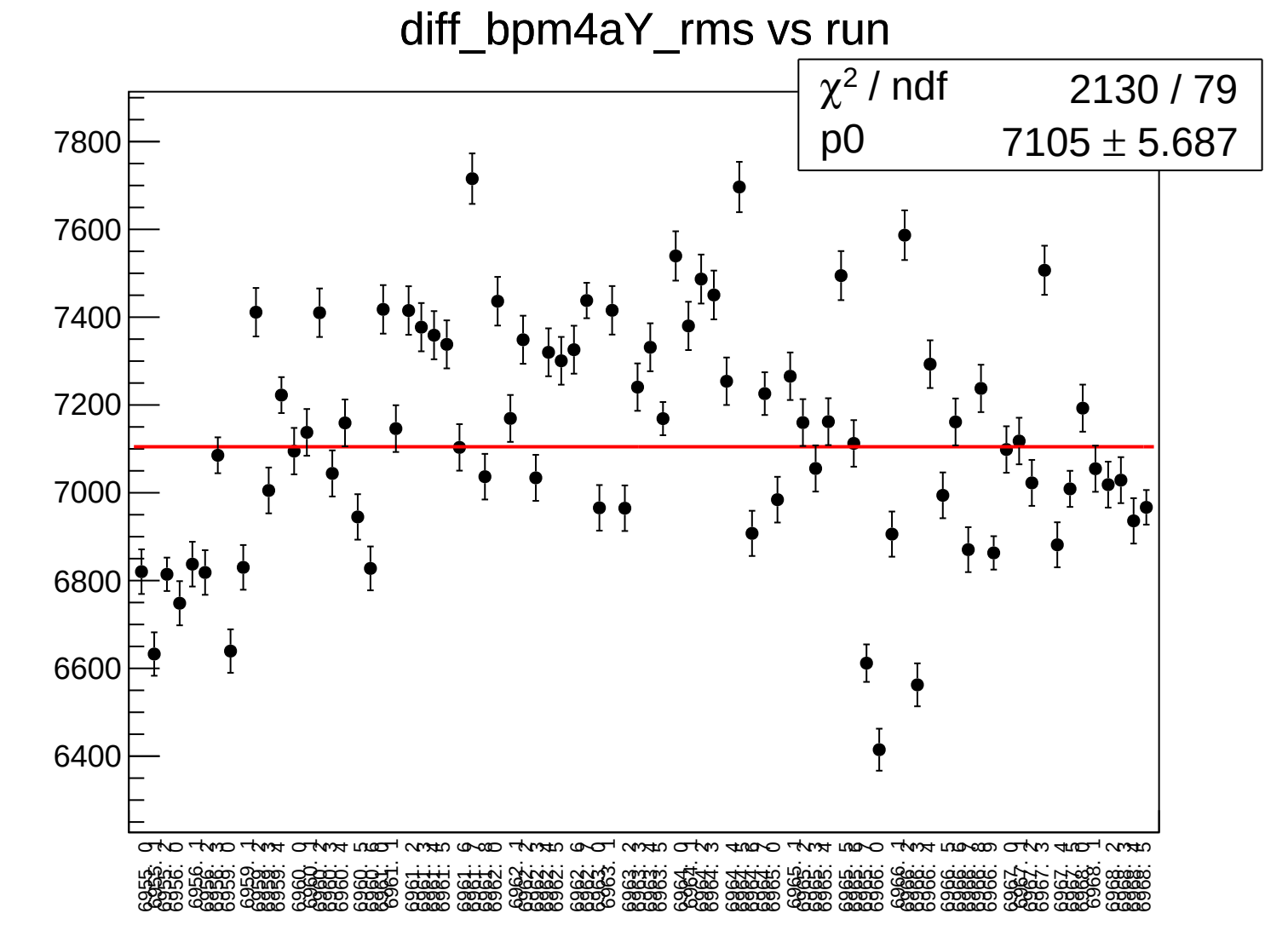

diff_bpm4aX_mean vs run
χ² / ndf 88.16 / 79
p0 −3.573 ± 12.64
400
200
0
−200
−400
pull
Entries 80
Mean −18.58
Std Dev 57.22
3
2
1
0
−1
−2

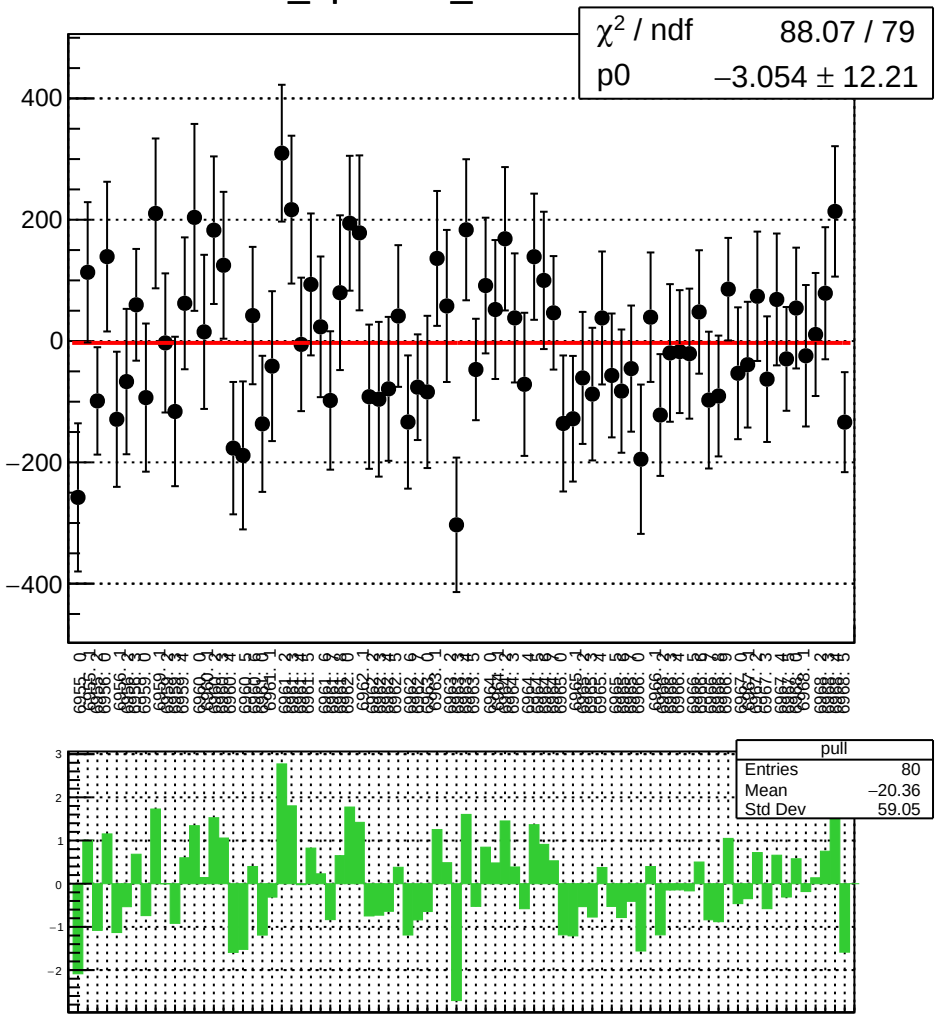

pull1D
Entries 80
Mean 0.01958
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

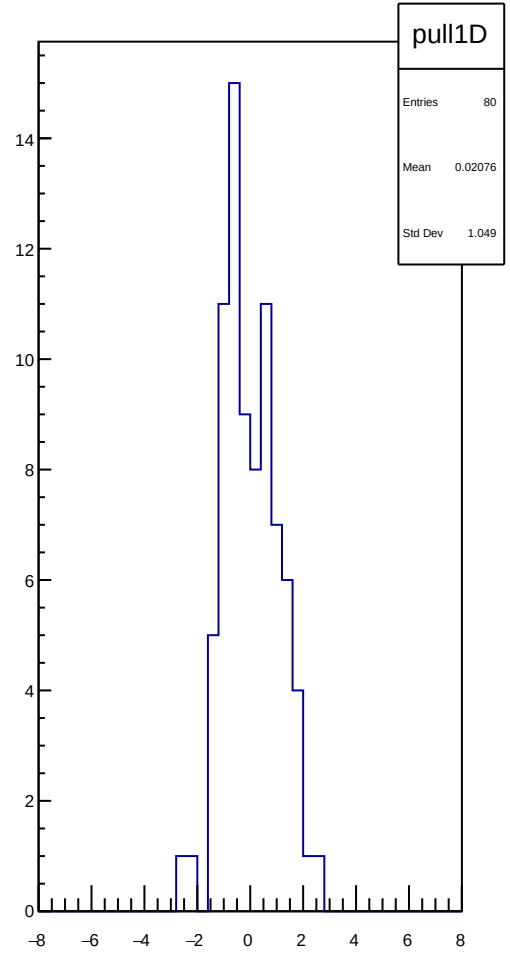

diff_bpm4aX_rms vs run
χ² / ndf 9888 / 79
p0 1.114e+04 ± 8.937
15000
14000
13000
12000
11000
10000


diff_bpm4aY_mean vs run
χ² / ndf 65.86 / 79
p0 7.744 ± 8.042
300
200
100
0
−100
−200
pull
Entries 80
Mean 1561
Std Dev 1530
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

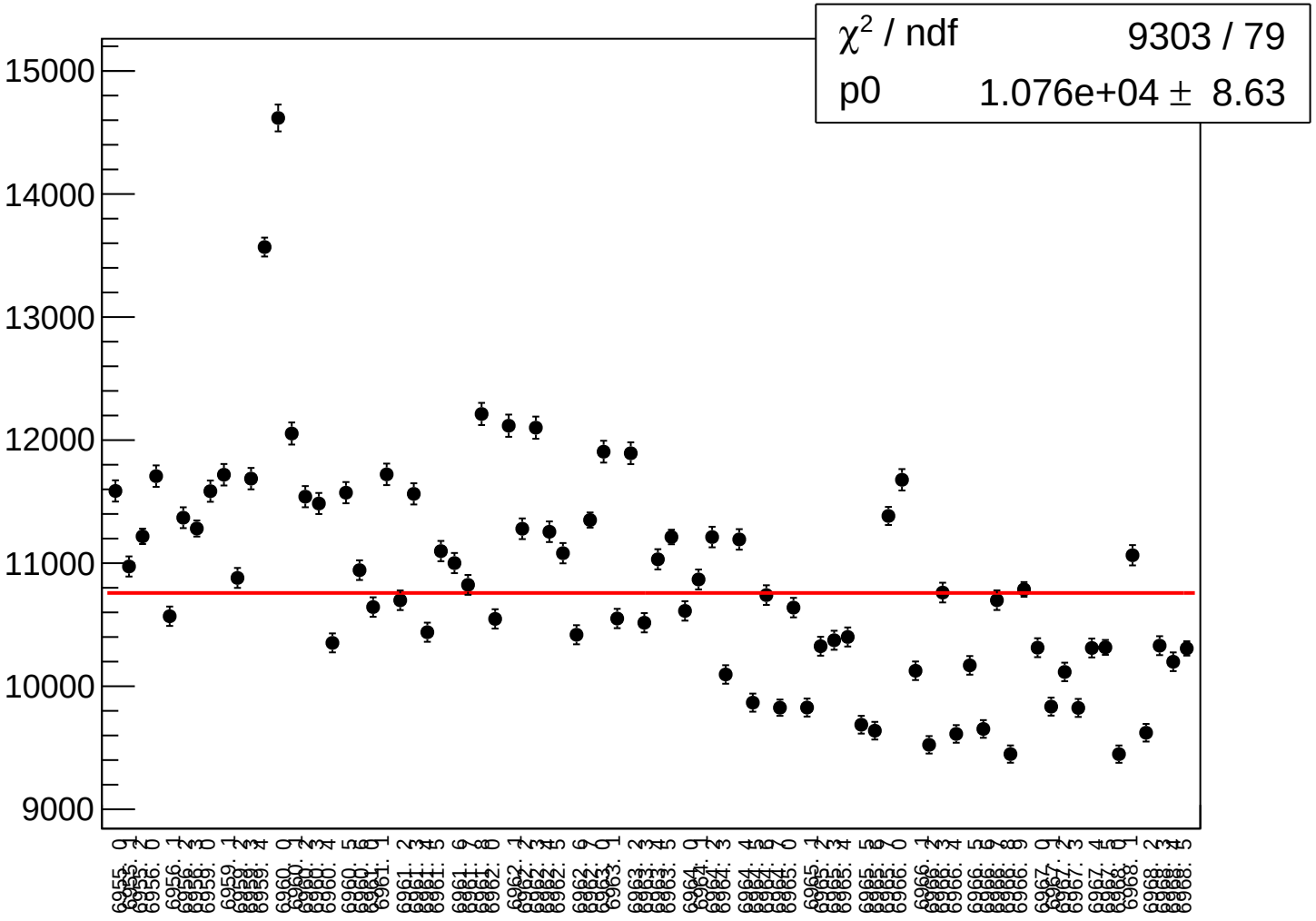

pull1D
Entries 80
Mean −0.001814
Std Dev 0.9073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

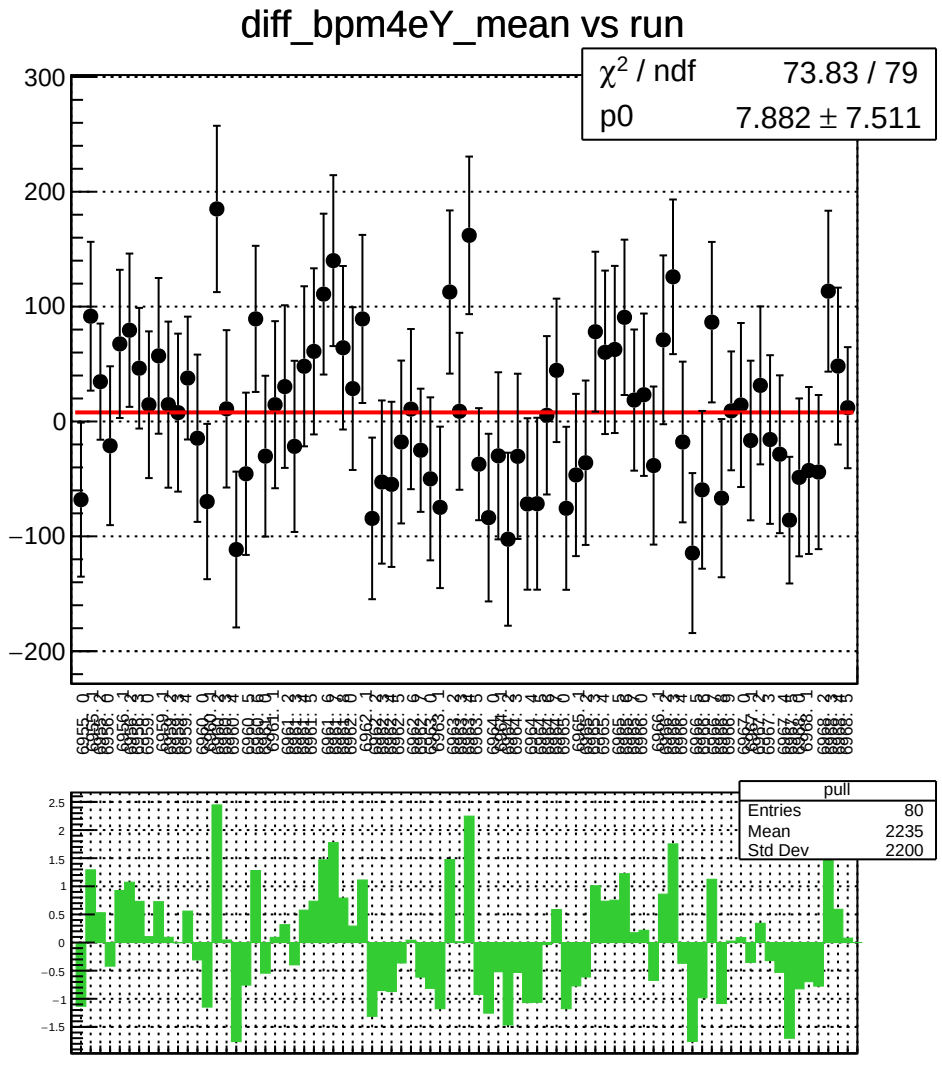

diff_bpm4aY_rms vs run
χ^2 / ndf 2130 / 79
p0 7105 ± 5.687
7800
7600
7400
7200
7000
6800
6600
6400

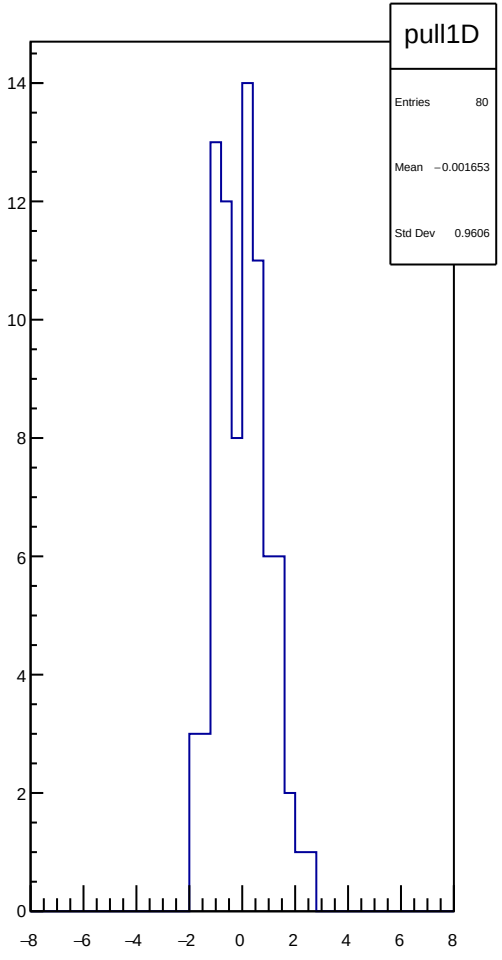

diff_bpm4eX_mean vs run
χ² / ndf 88.07 / 79
p0 −3.054 ± 12.21
400
200
0
−200
−400
pull
Entries 80
Mean −20.36
Std Dev 59.05
3
2
1
0
−1
−2

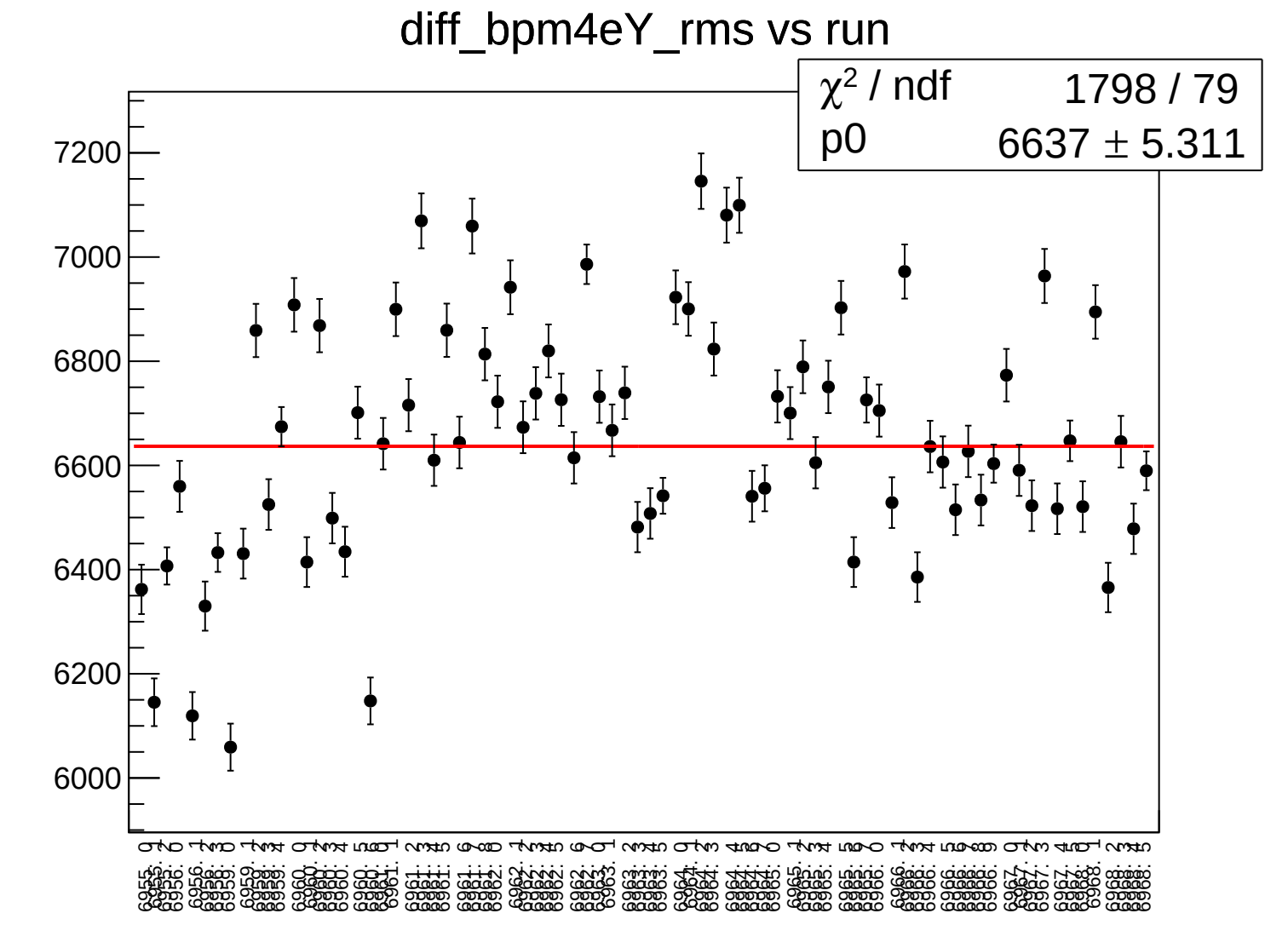

pull1D
Entries 80
Mean 0.02076
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

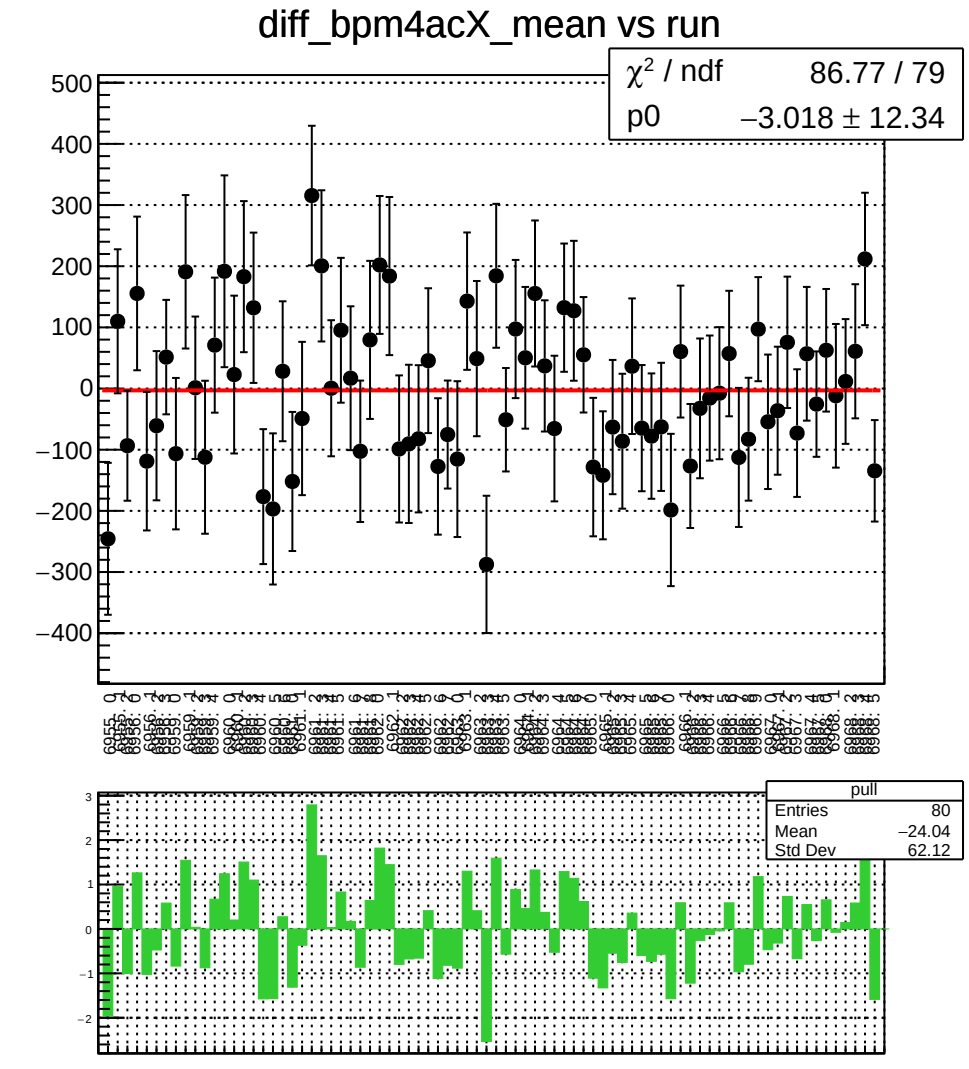
diff_bpm4eX_rms vs run

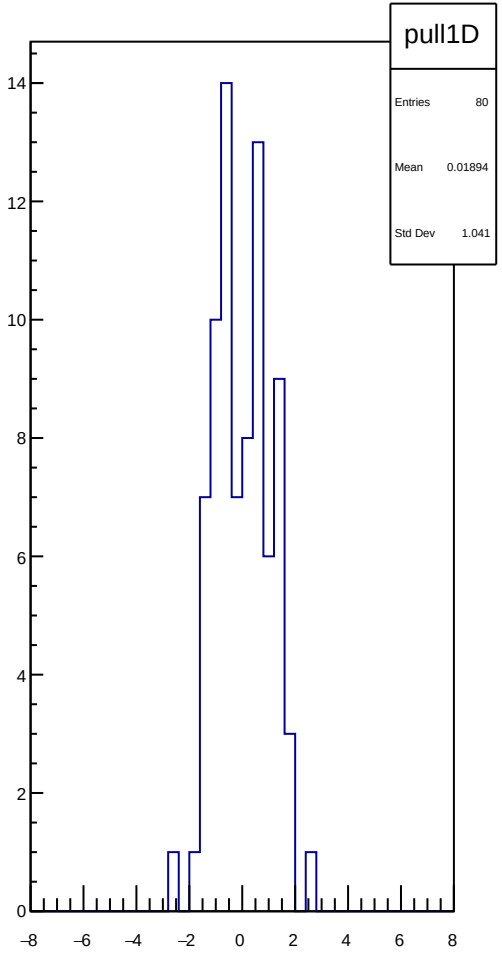


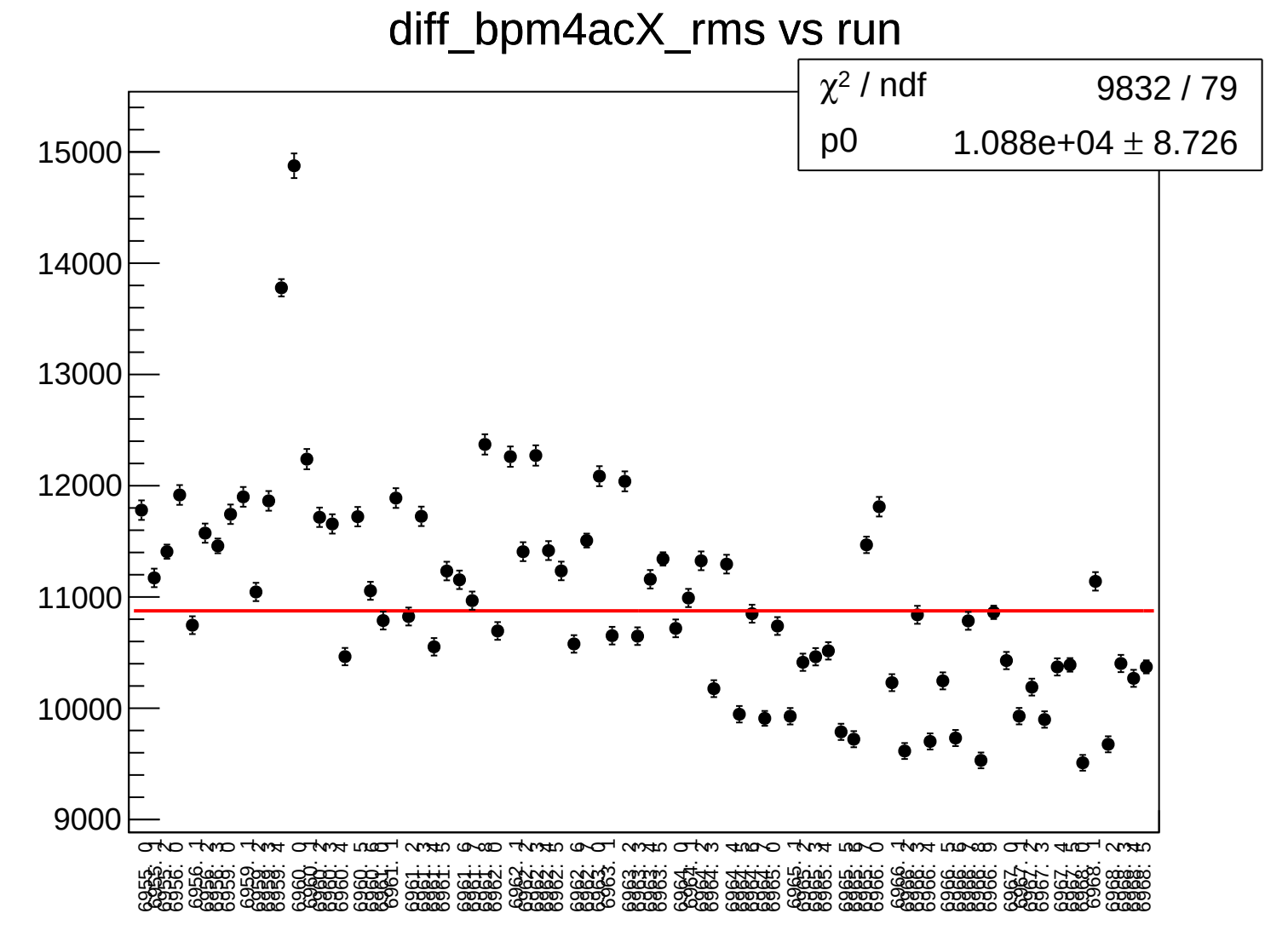

diff_bpm4eY_mean vs run
χ² / ndf 73.83 / 79
p0 7.882 ± 7.511
pull
Entries 80
Mean 2235
Std Dev 2200

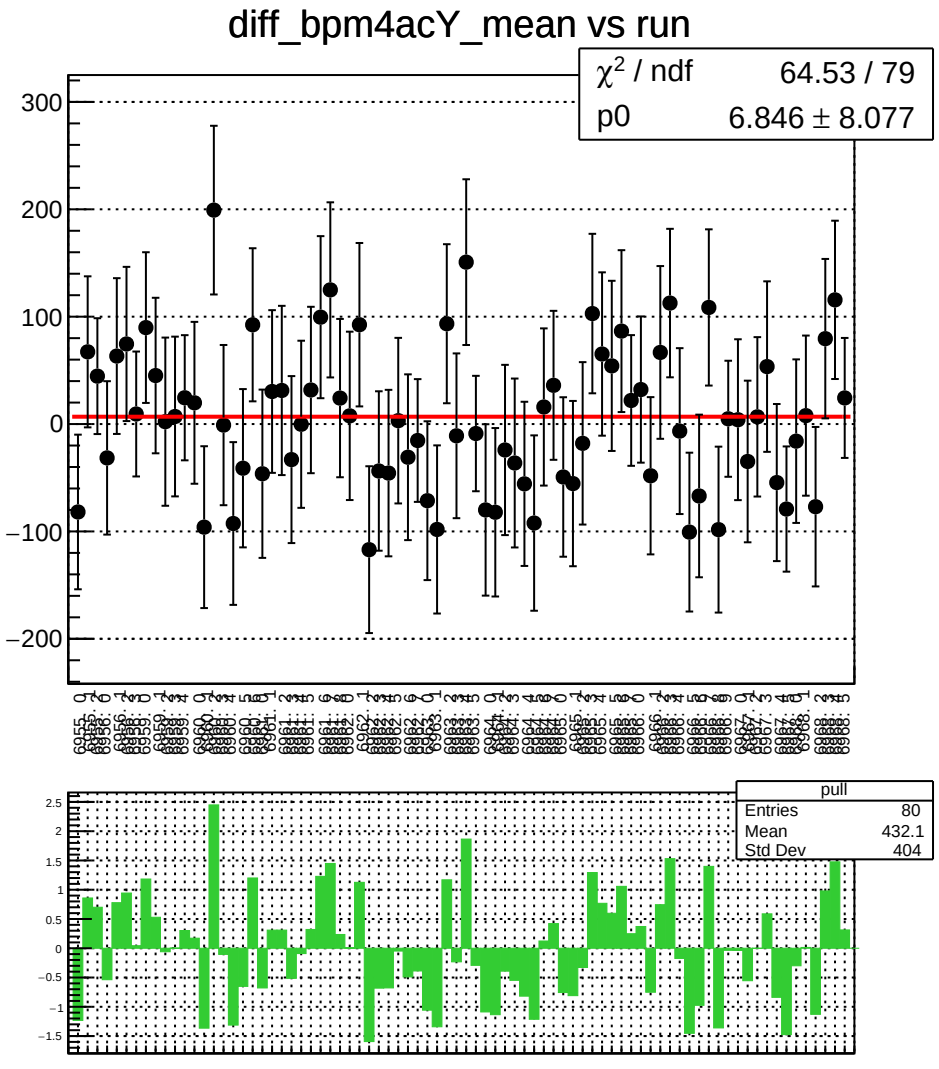

pull1D
Entries 80
Mean −0.001653
Std Dev 0.9606

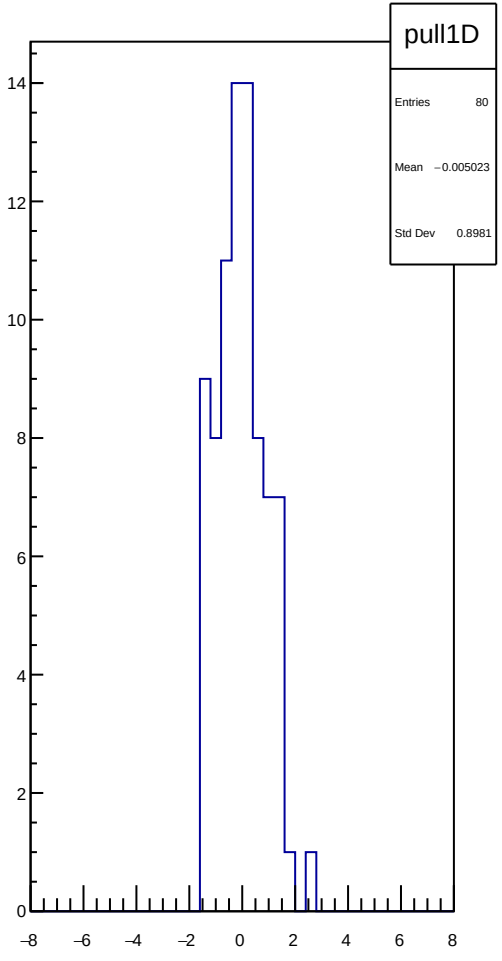

diff_bpm4eY_rms vs run
χ² / ndf 1798 / 79
p0 6637 ± 5.311
7200
7000
6800
6600
6400
6200
6000

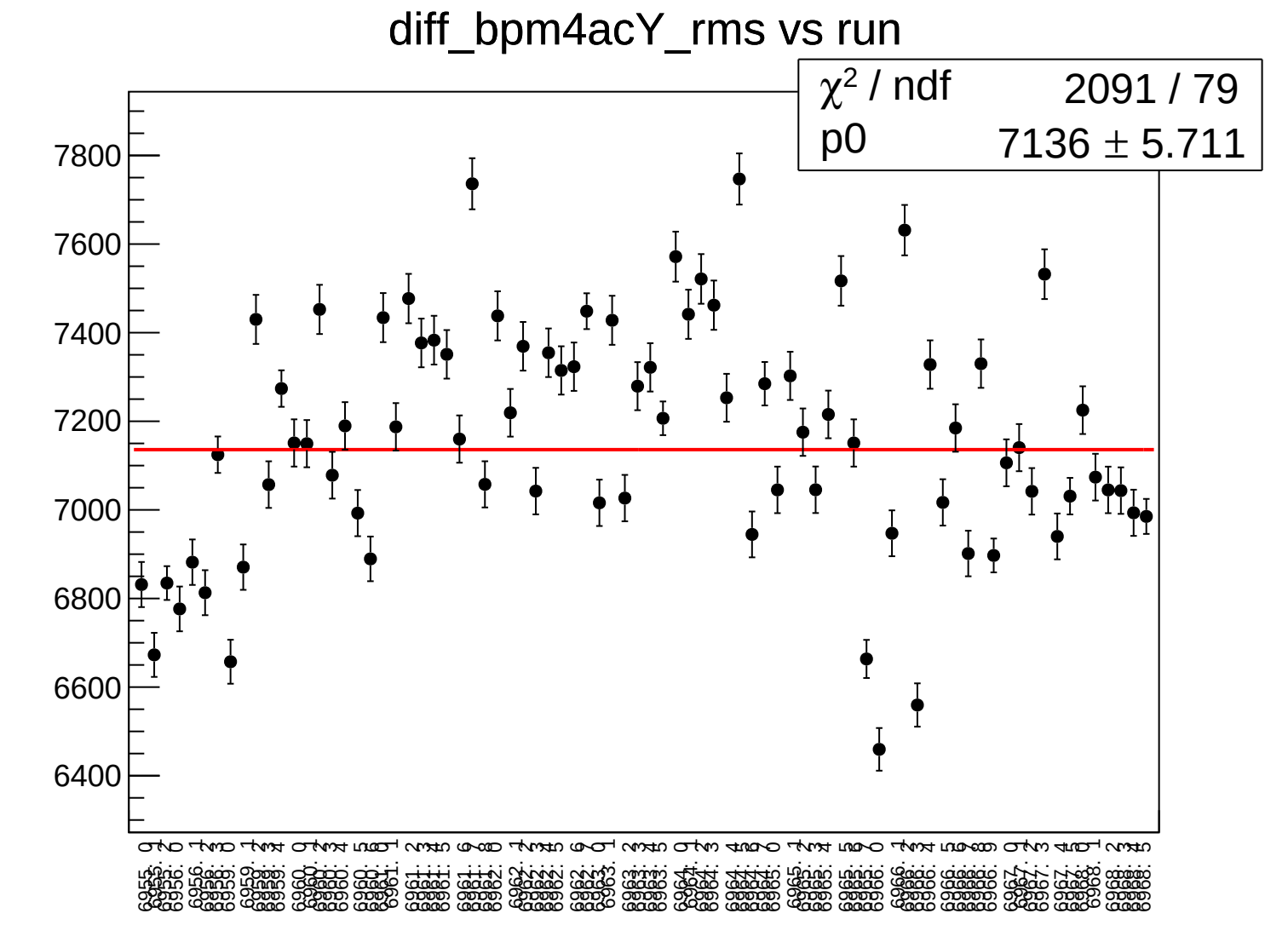

diff_bpm4acX_mean vs run
χ² / ndf 86.77 / 79
p0 −3.018 ± 12.34
pull
Entries 80
Mean −24.04
Std Dev 62.12

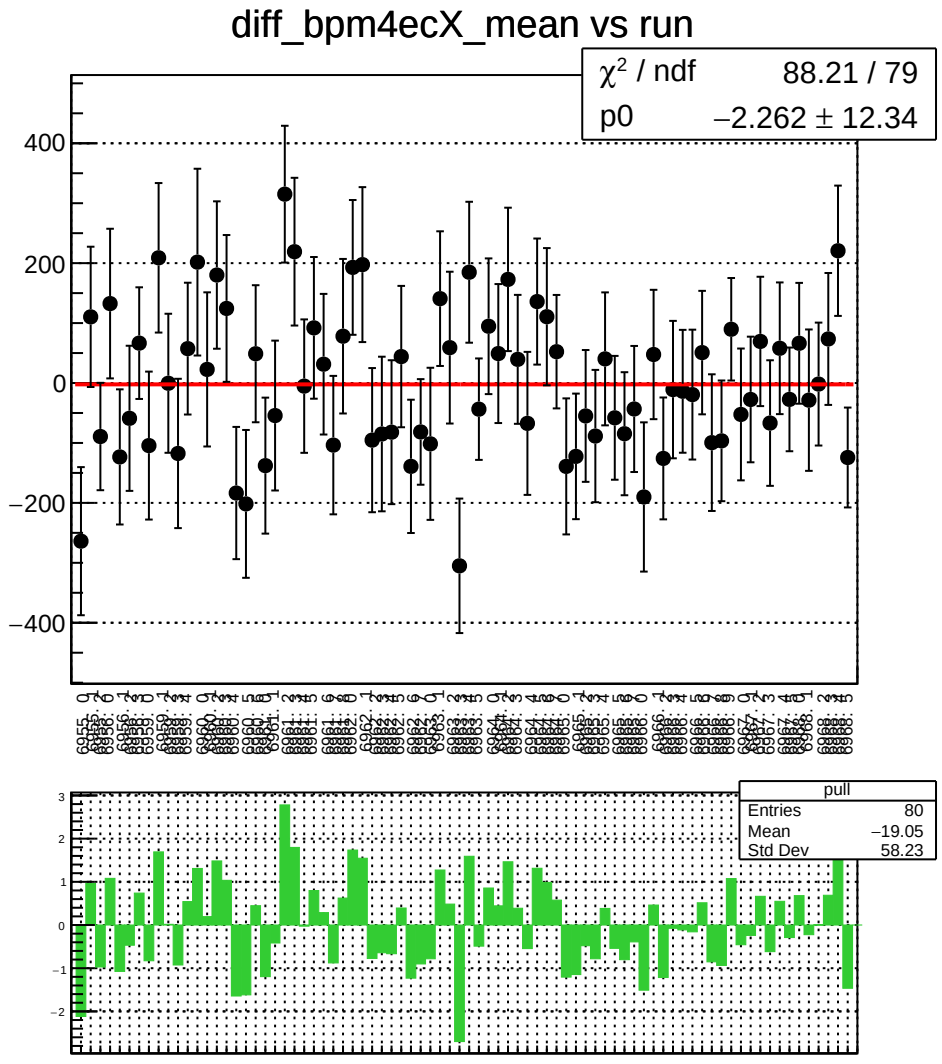

pull1D
Entries 80
Mean 0.01894
Std Dev 1.041

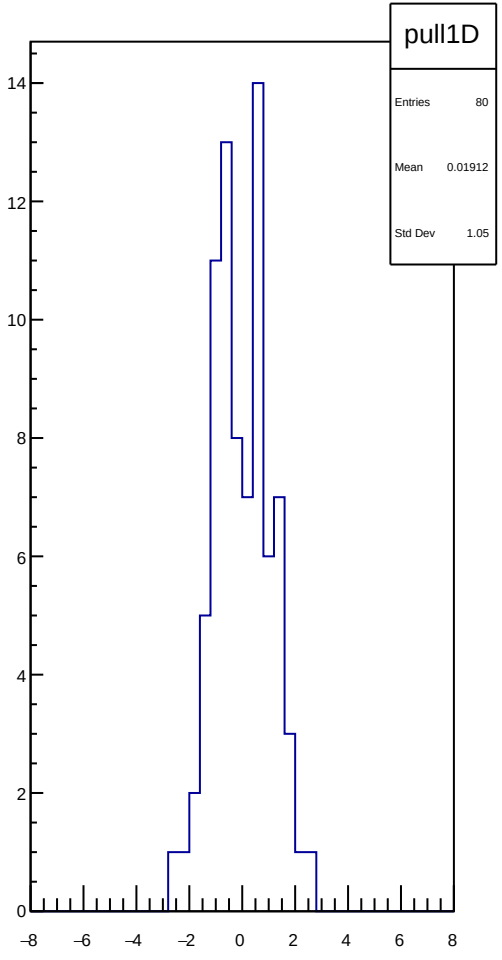

diff_bpm4acX_rms vs run
χ² / ndf 9832 / 79
p0 1.088e+04 ± 8.726
15000
14000
13000
12000
11000
10000
9000

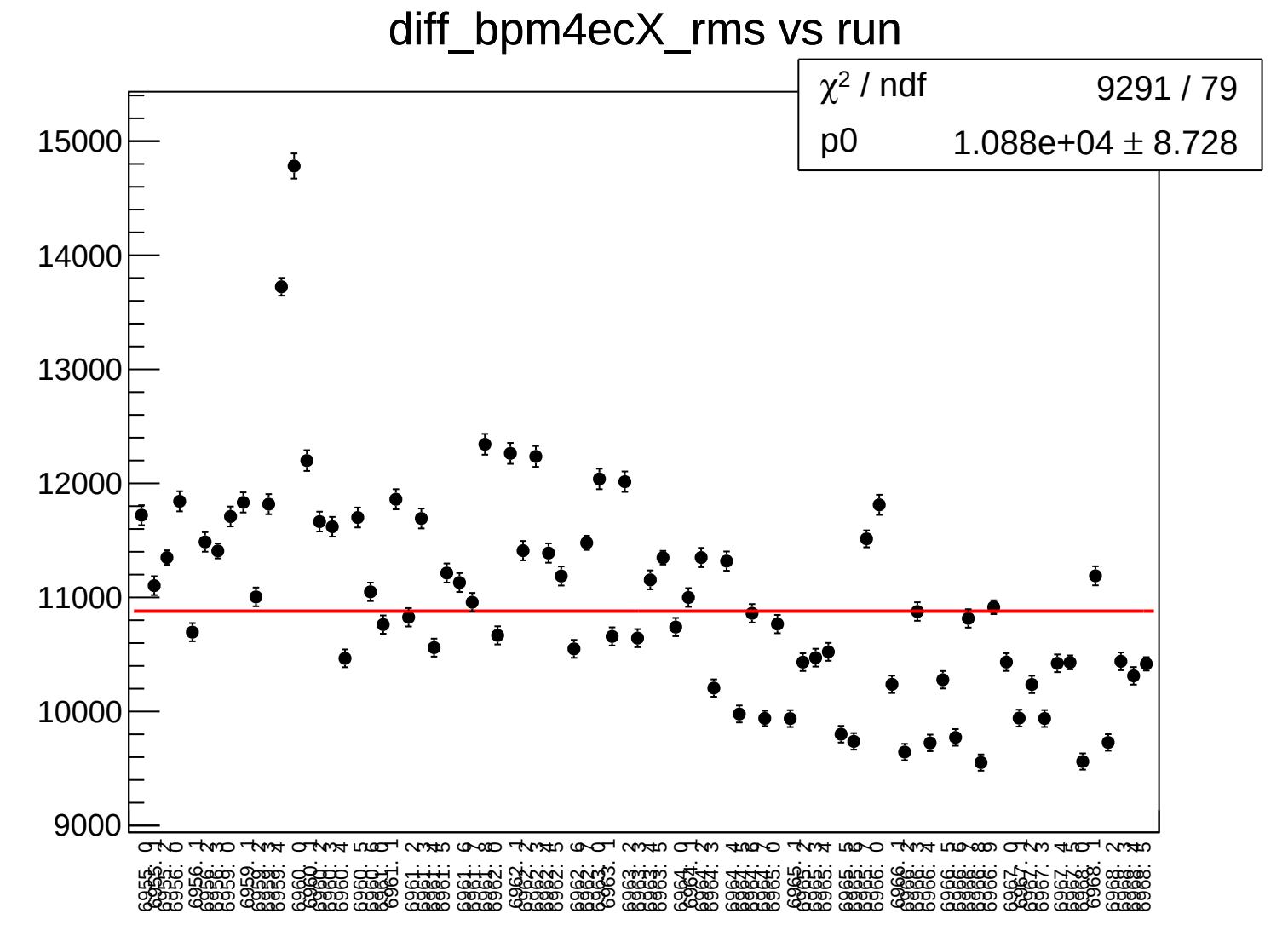

diff_bpm4acY_mean vs run
χ^2 / ndf 64.53 / 79
p0 6.846 ± 8.077
pull
Entries 80
Mean 432.1
Std Dev 404

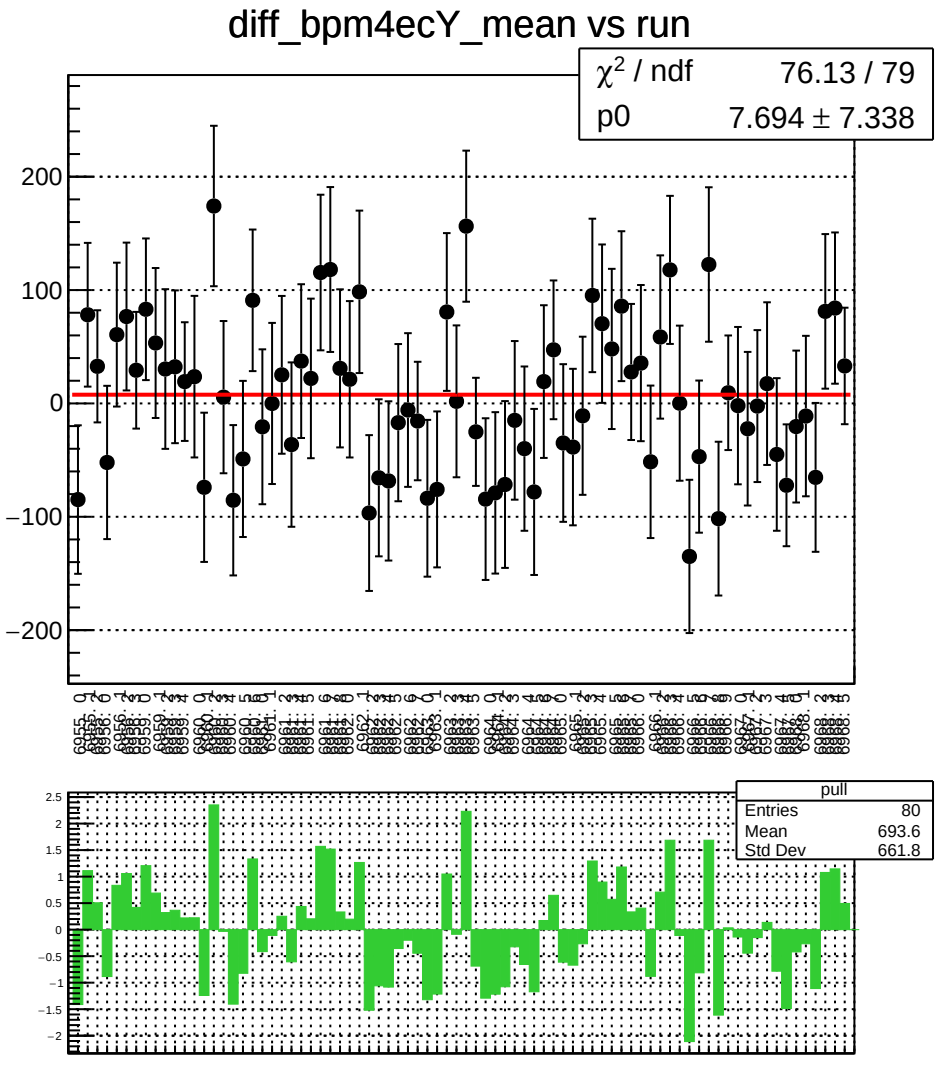

pull1D
Entries 80
Mean −0.005023
Std Dev 0.8981

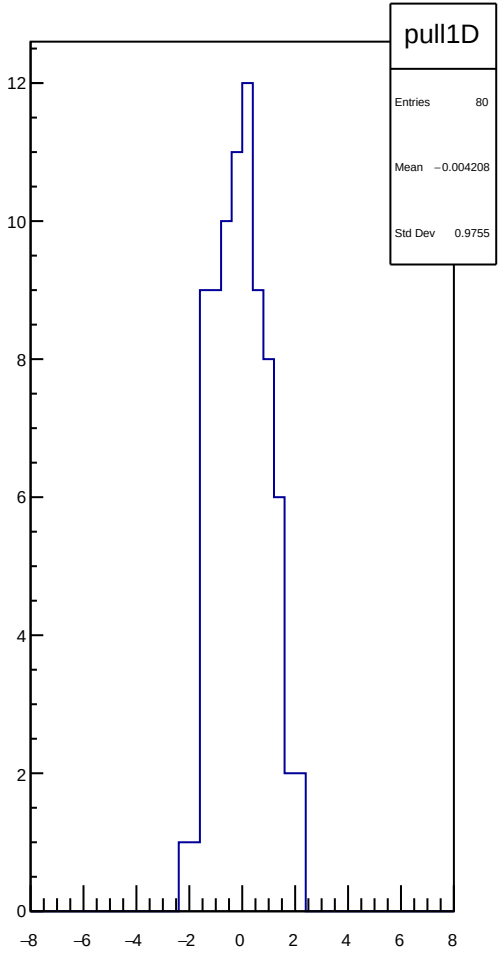

diff_bpm4acY_rms vs run
χ² / ndf 2091 / 79
p0 7136 ± 5.711
7800
7600
7400
7200
7000
6800
6600
6400

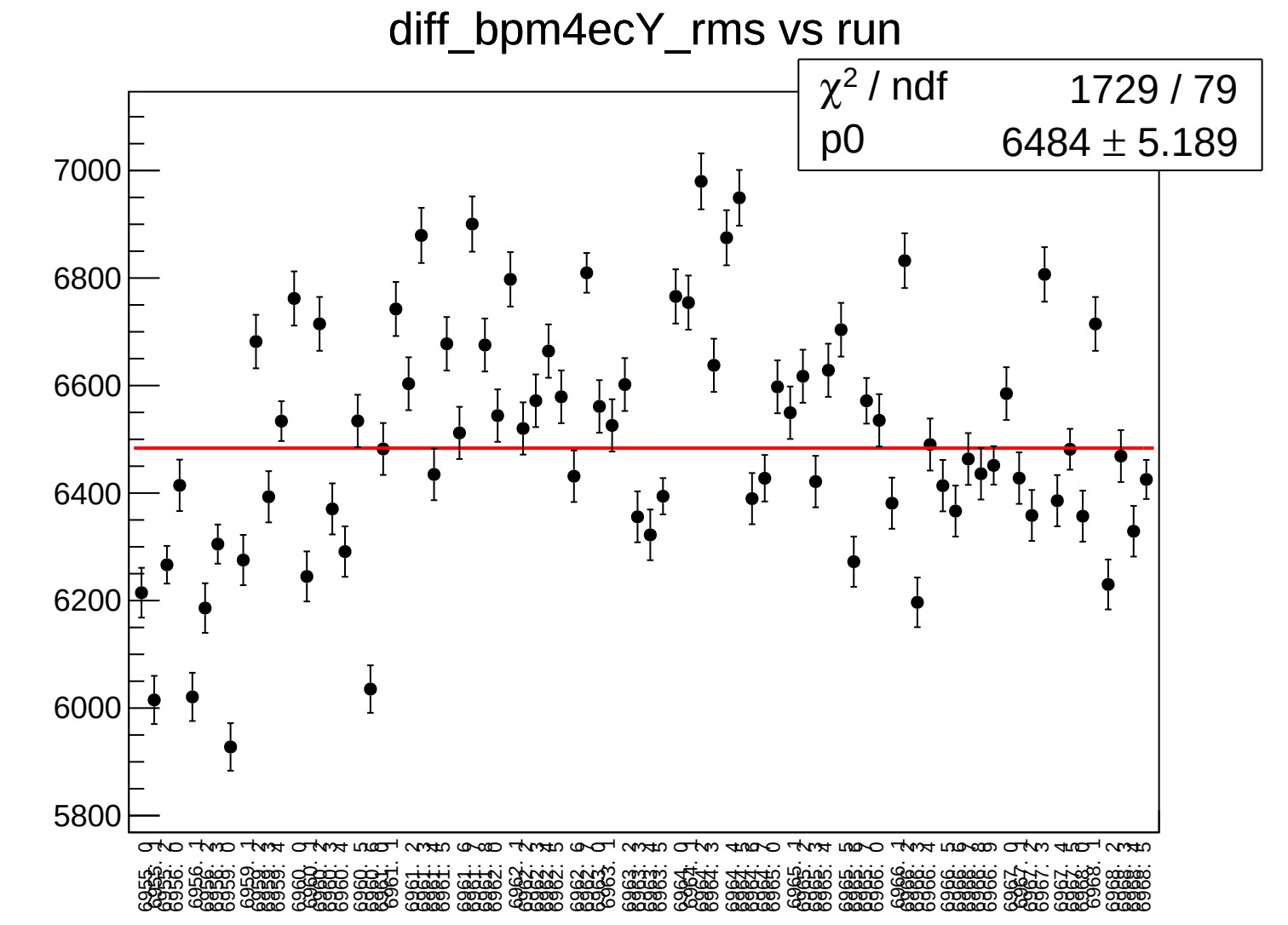

diff_bpm4ecX_mean vs run
χ² / ndf 88.21 / 79
p0 −2.262 ± 12.34
400
200
0
−200
−400
pull
Entries 80
Mean −19.05
Std Dev 58.23
3
2
1
0
−1
−2

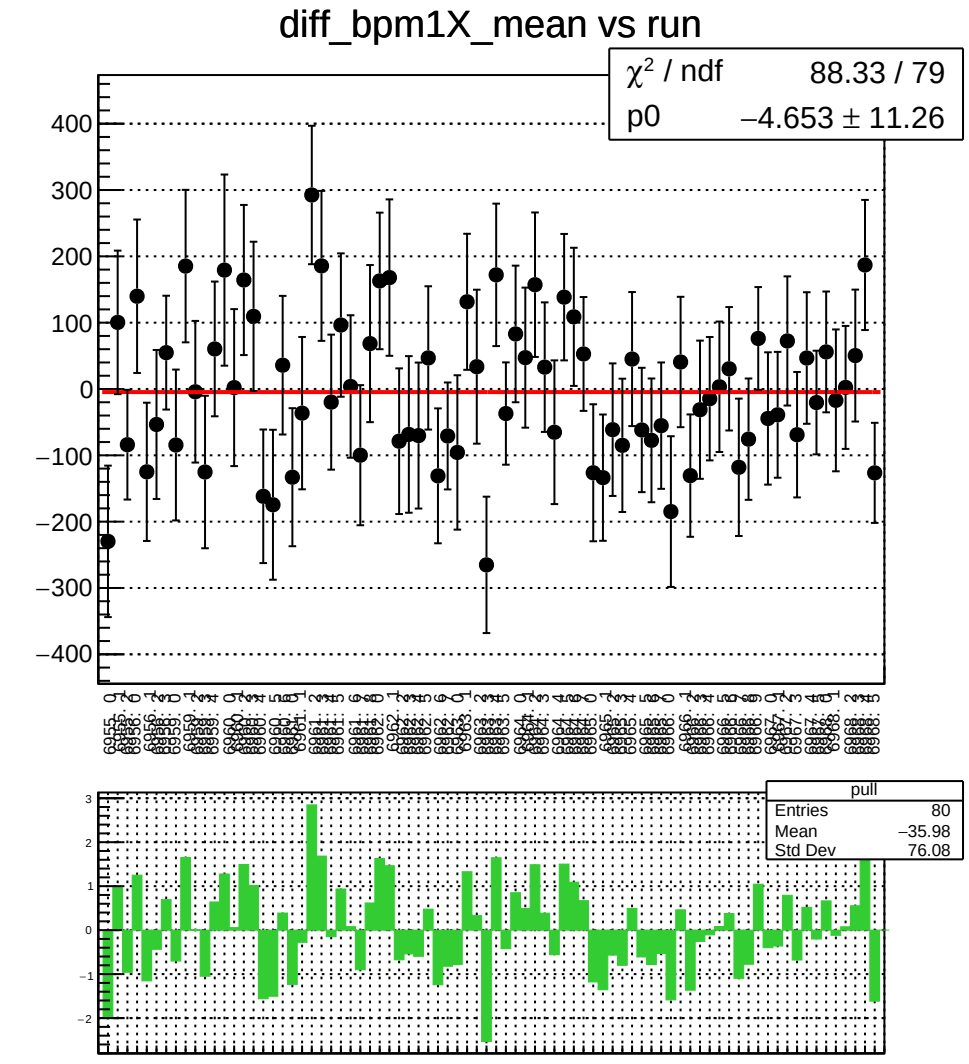

pull1D
Entries 80
Mean 0.01912
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

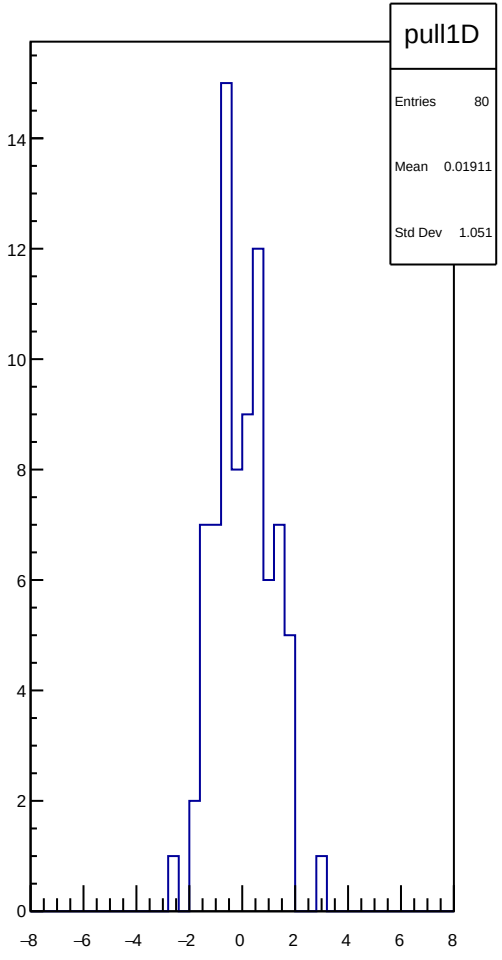

diff_bpm4ecX_rms vs run
χ² / ndf 9291 / 79
p0 1.088e+04 ± 8.728
15000
14000
13000
12000
11000
10000
9000

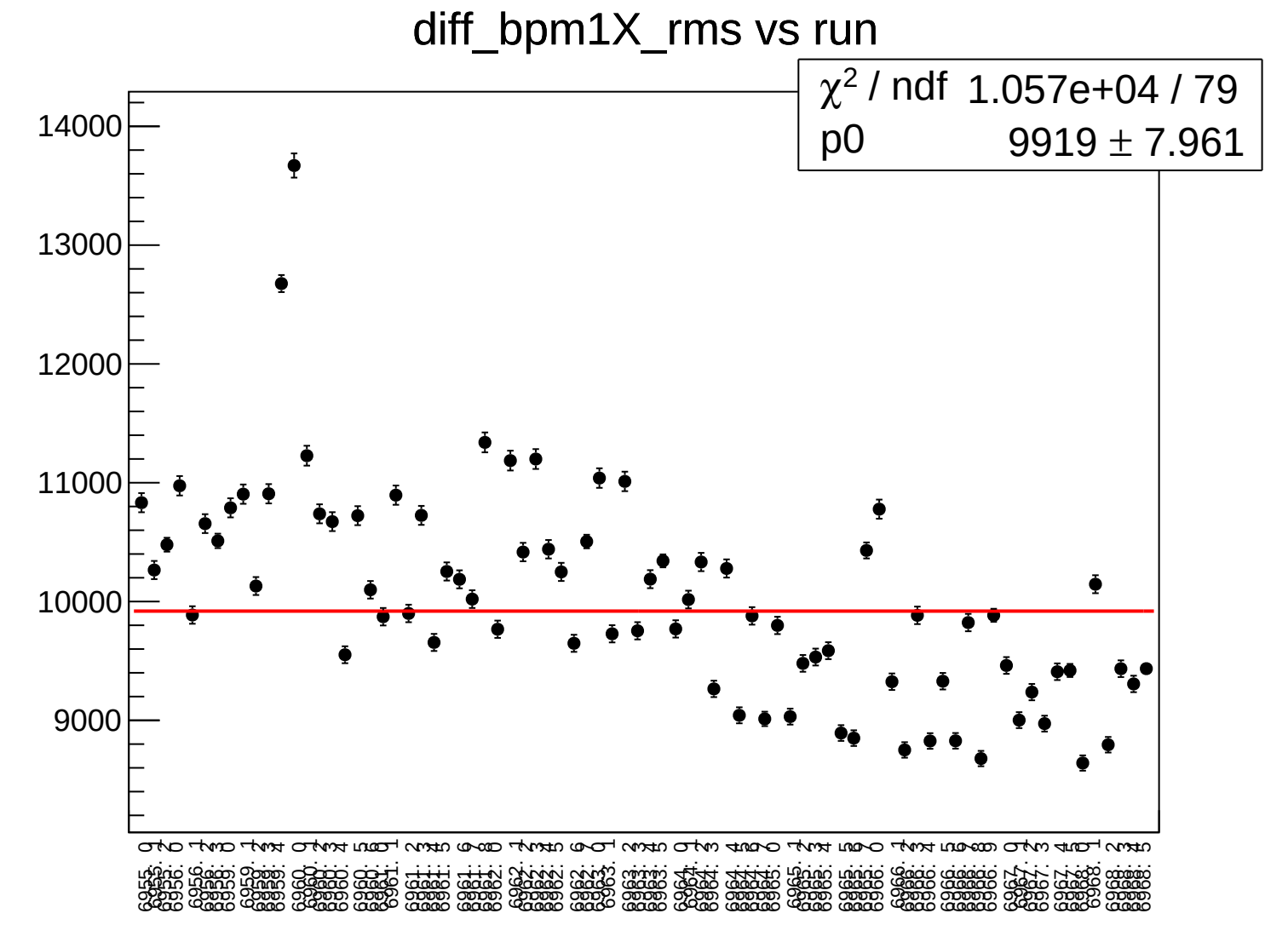

diff_bpm4ecY_mean vs run
χ² / ndf 76.13 / 79
p0 7.694 ± 7.338
200
100
0
−100
−200
pull
Entries 80
Mean 693.6
Std Dev 661.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

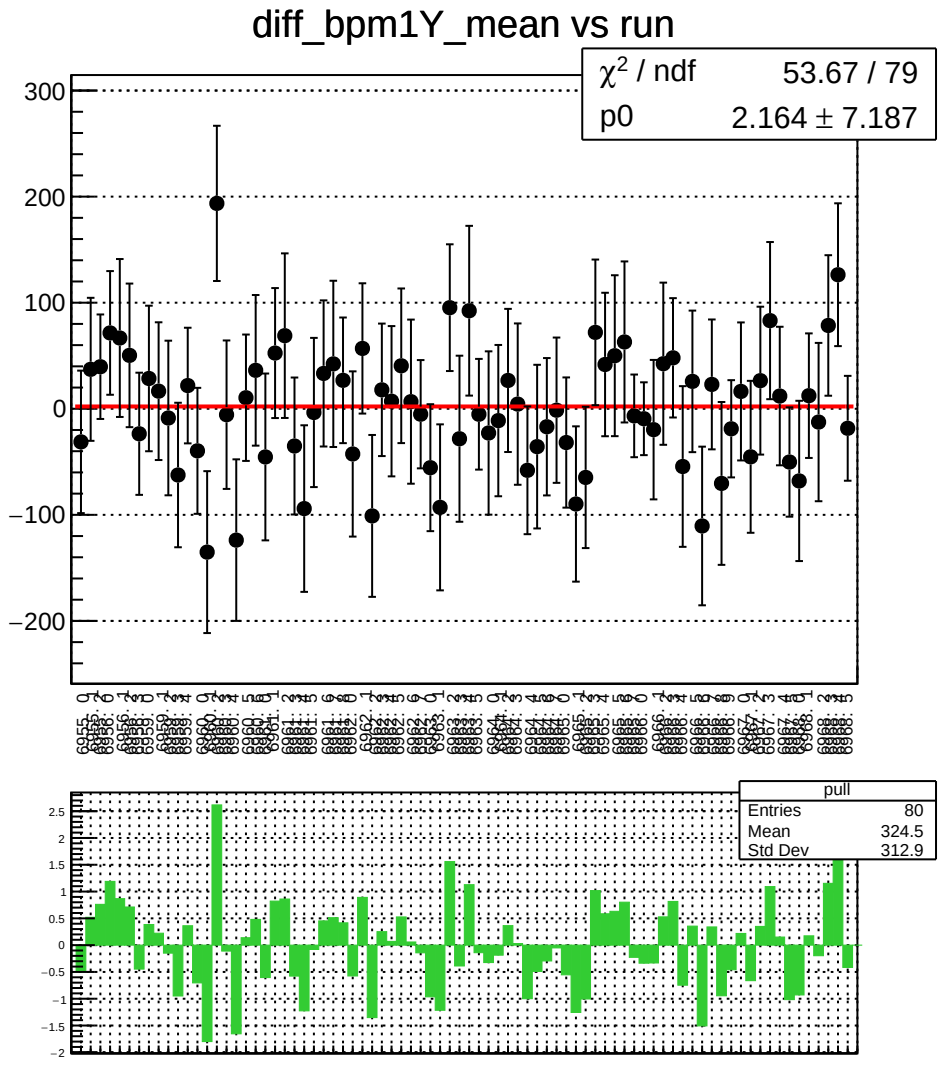

pull1D
Entries 80
Mean −0.004208
Std Dev 0.9755
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

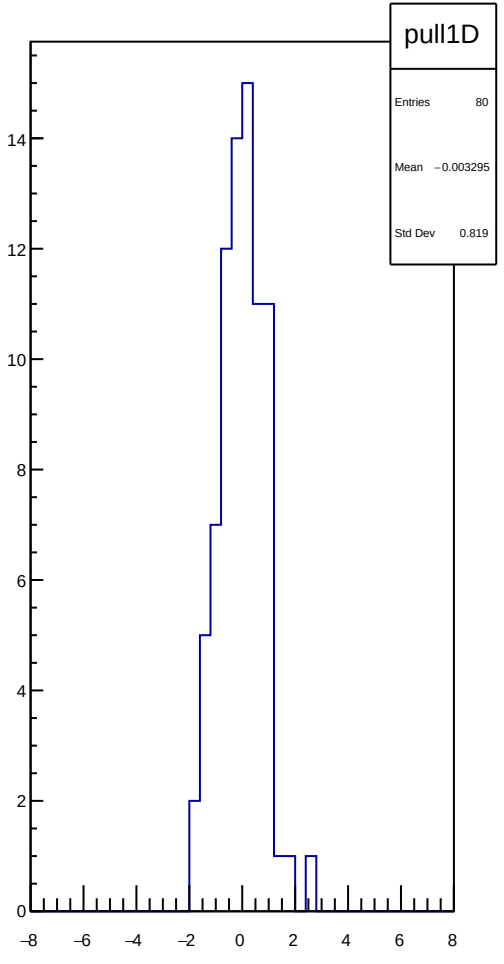

diff_bpm4ecY_rms vs run
χ^2 / ndf 1729 / 79
p0 6484 ± 5.189
7000
6800
6600
6400
6200
6000
5800

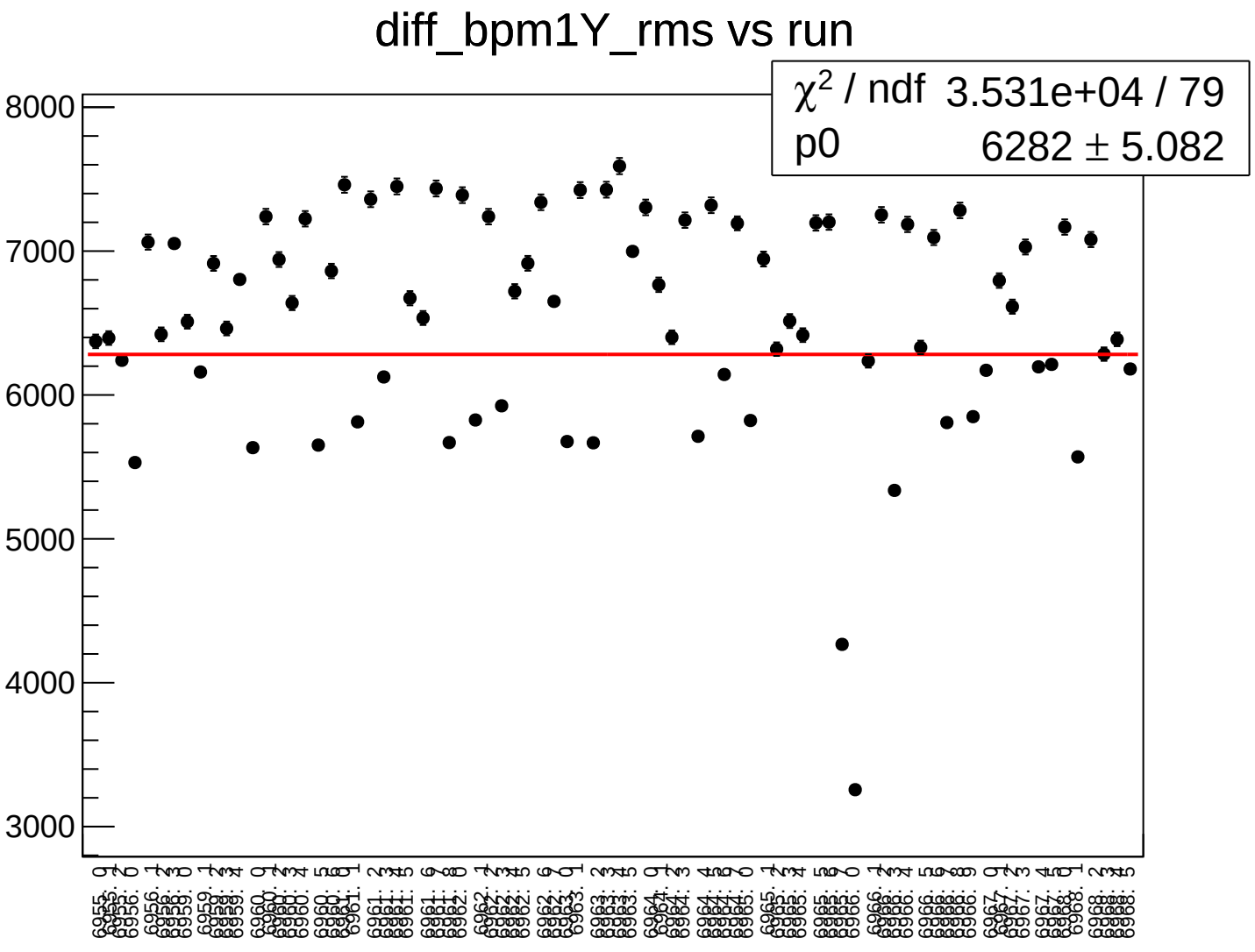

diff_bpm1X_mean vs run
χ² / ndf 88.33 / 79
p0 −4.653 ± 11.26
pull
Entries 80
Mean −35.98
Std Dev 76.08

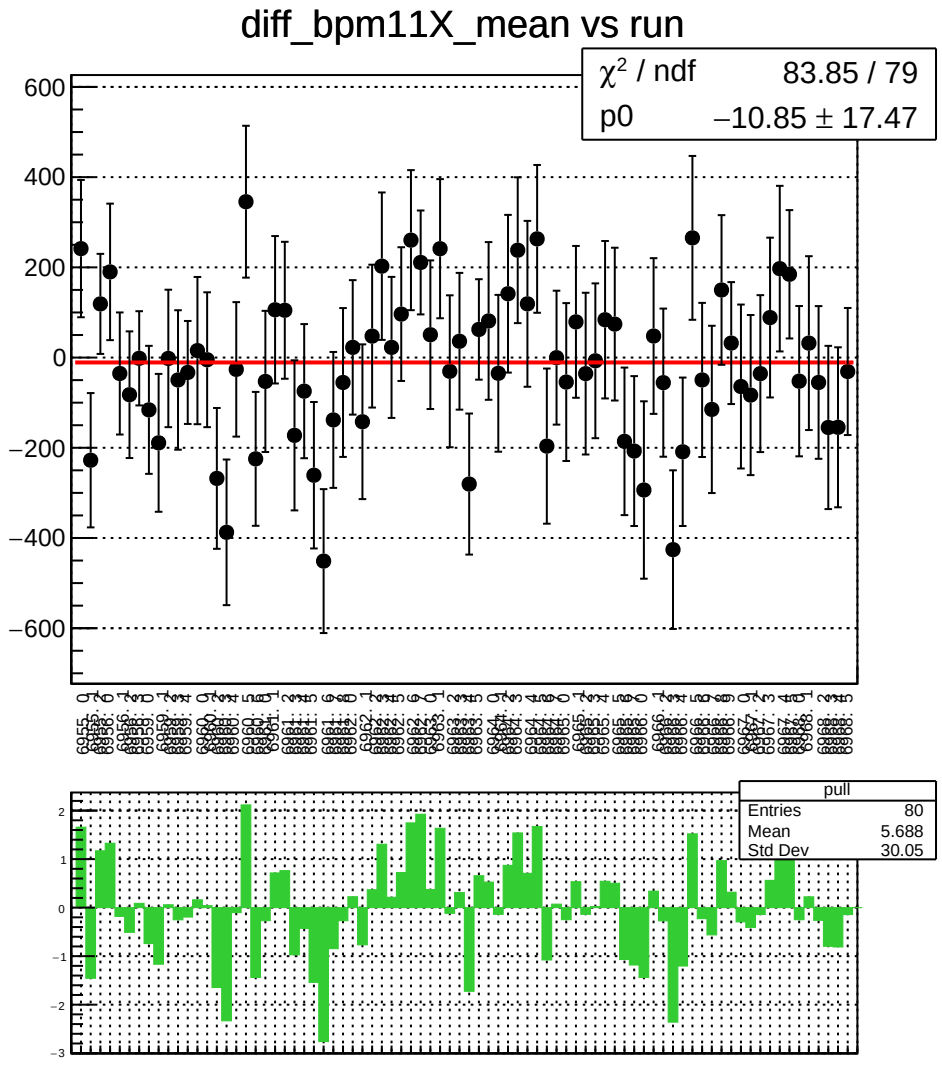

pull1D
Entries 80
Mean 0.01911
Std Dev 1.051

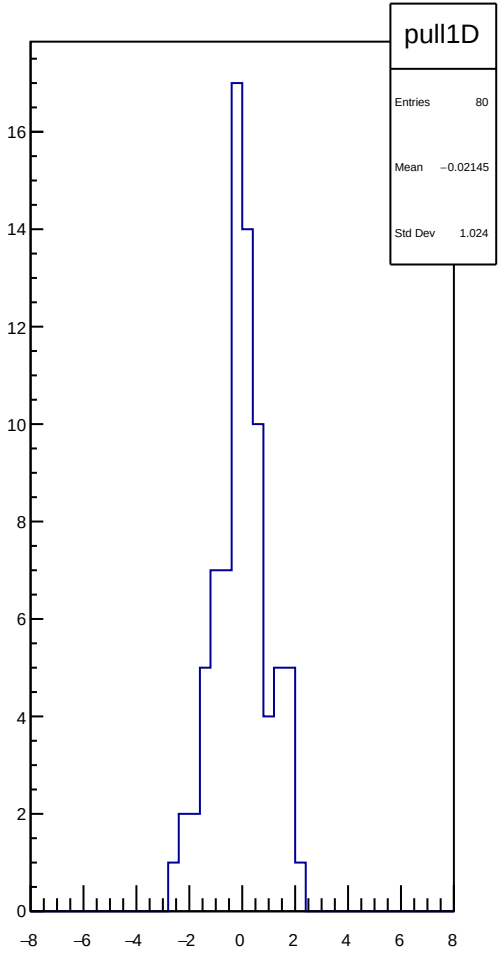

diff_bpm1X_rms vs run
χ² / ndf 1.057e+04 / 79
p0 9919 ± 7.961
14000
13000
12000
11000
10000
9000

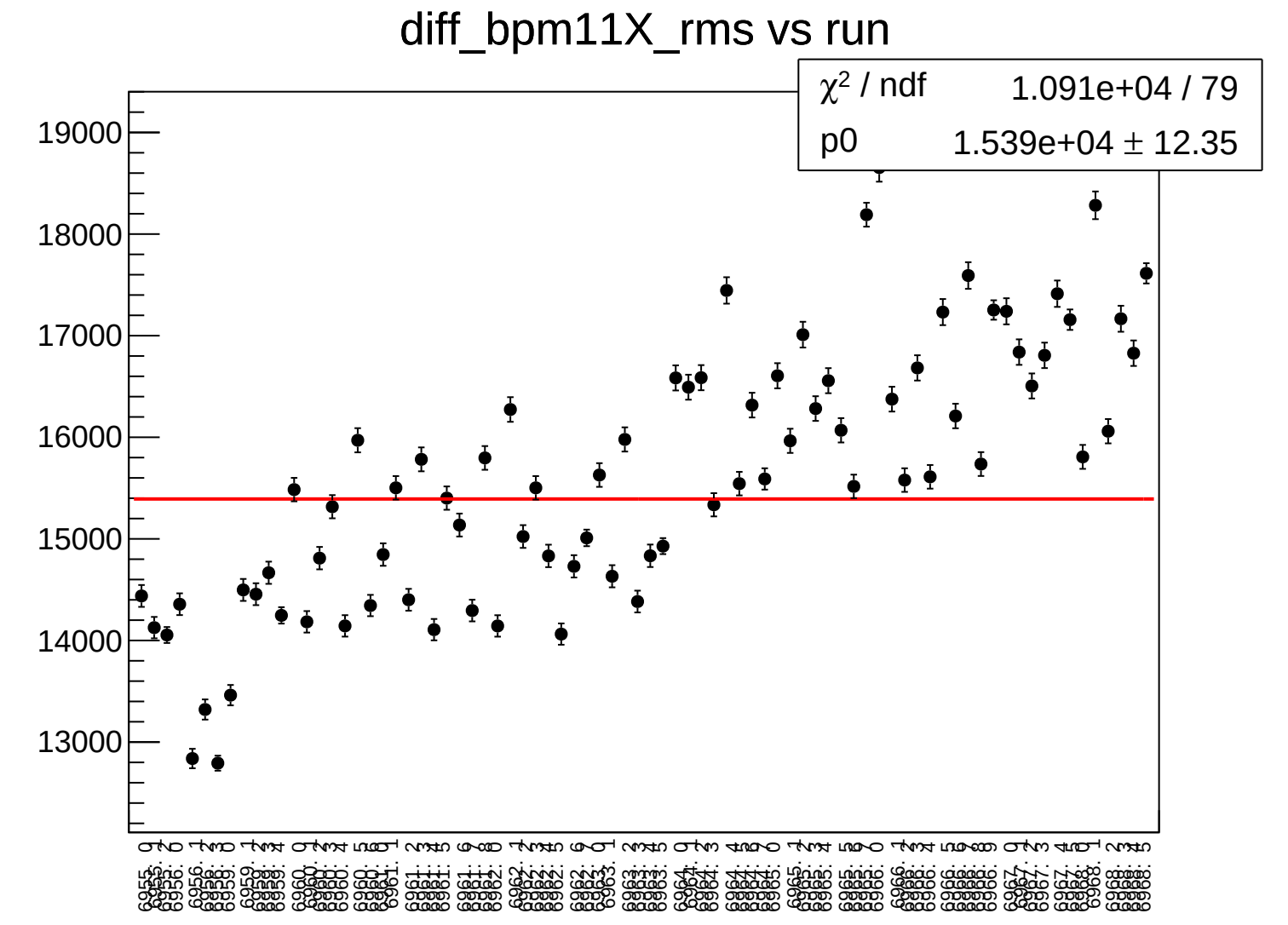

diff_bpm1Y_mean vs run
χ² / ndf 53.67 / 79
p0 2.164 ± 7.187
300
200
100
0
−100
−200
pull
Entries 80
Mean 324.5
Std Dev 312.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

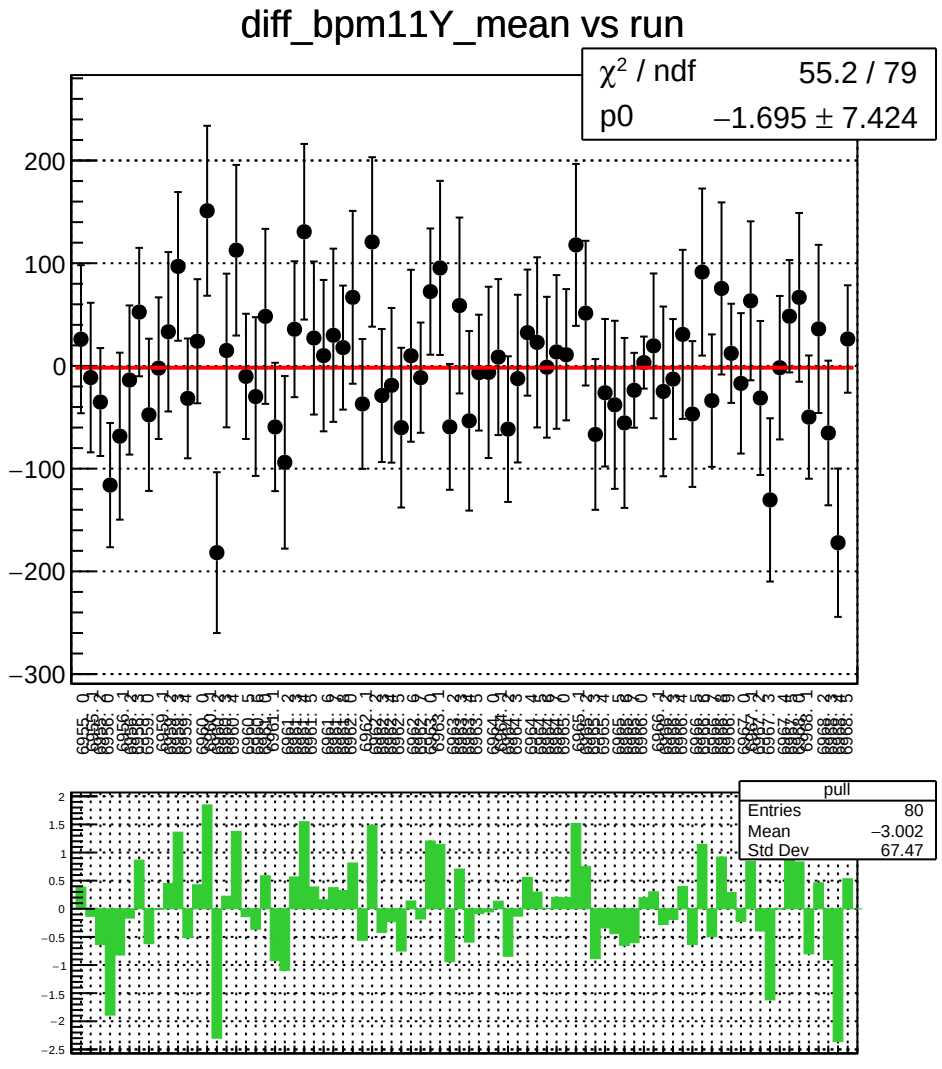

pull1D
Entries 80
Mean −0.003295
Std Dev 0.819
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

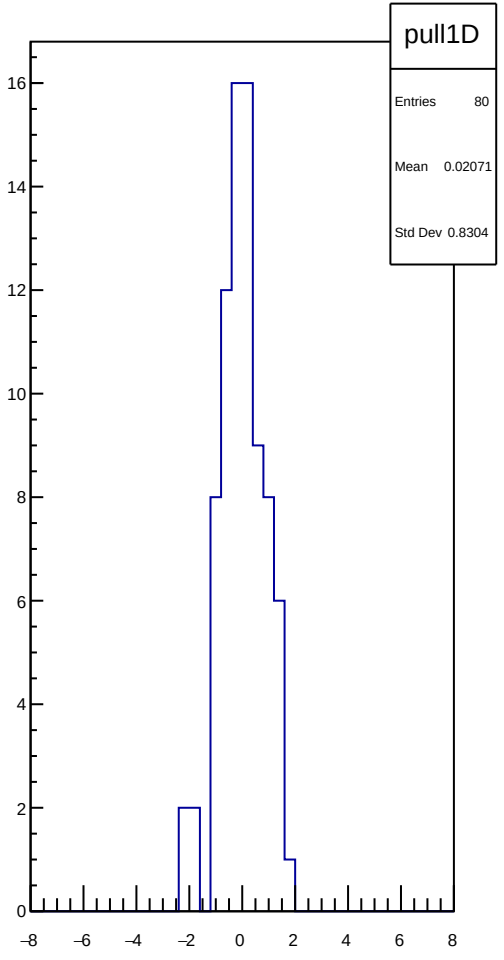

diff_bpm1Y_rms vs run
χ² / ndf 3.531e+04 / 79
p0 6282 ± 5.082
8000
7000
6000
5000
4000
3000

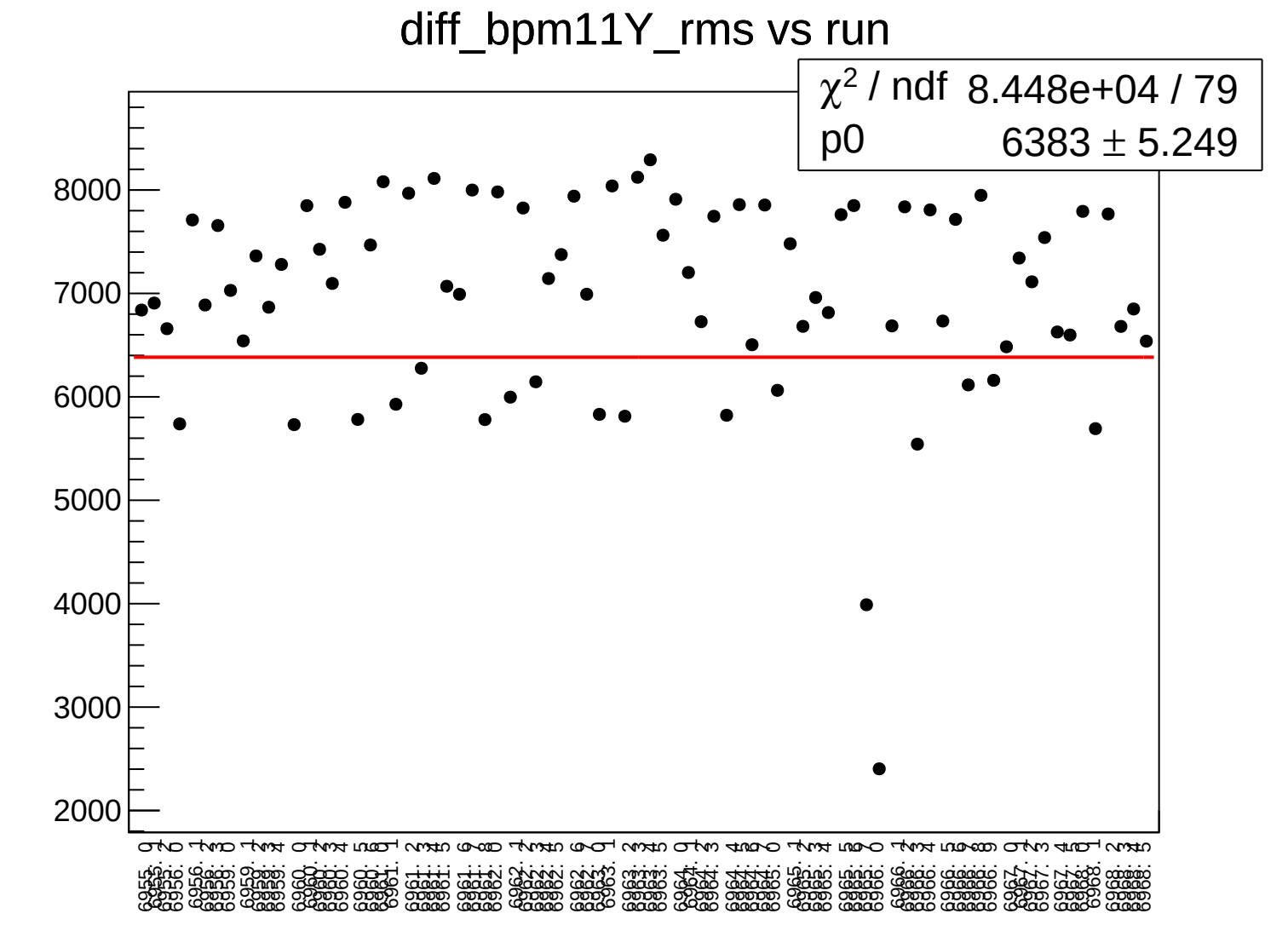

diff_bpm11X_mean vs run
χ² / ndf 83.85 / 79
p0 −10.85 ± 17.47
pull
Entries 80
Mean 5.688
Std Dev 30.05

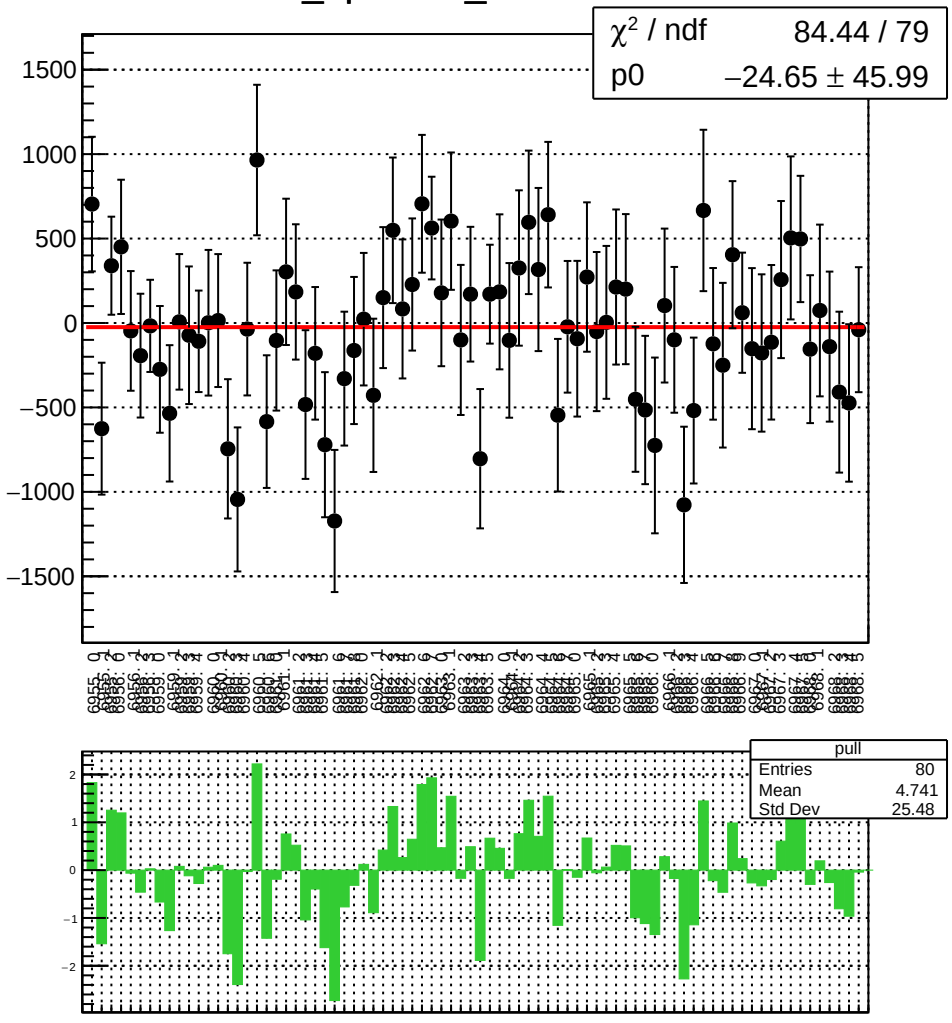

pull1D
Entries 80
Mean −0.02145
Std Dev 1.024

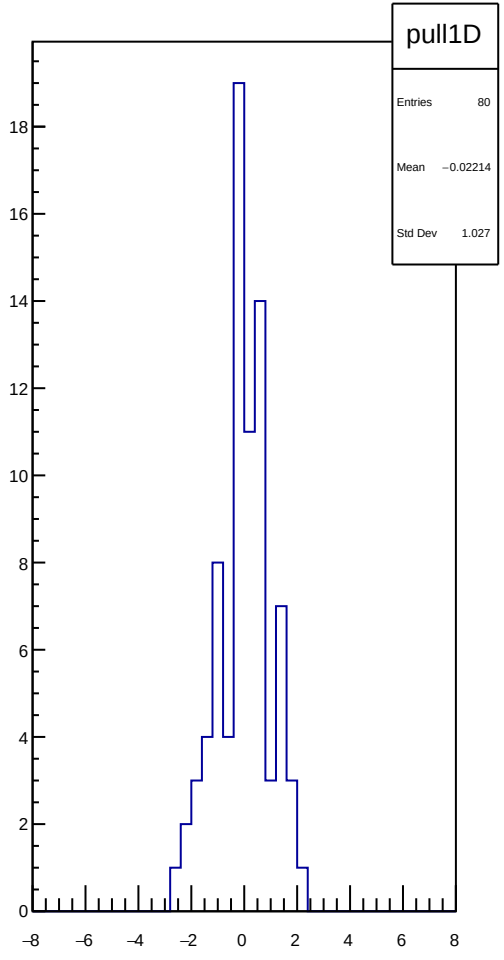

diff_bpm11X_rms vs run
χ² / ndf 1.091e+04 / 79
p0 1.539e+04 ± 12.35
19000
18000
17000
16000
15000
14000
13000

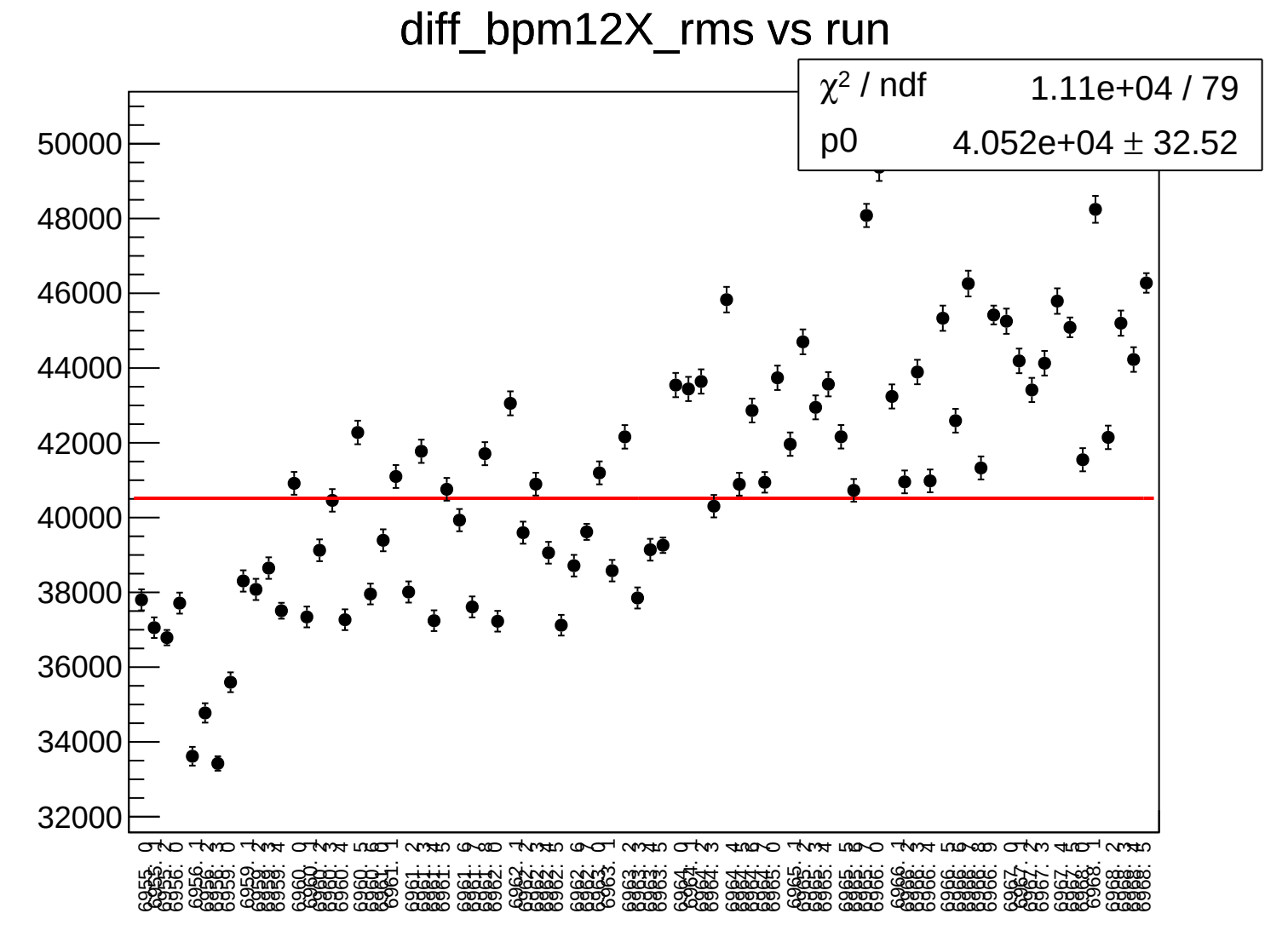

diff_bpm11Y_mean vs run
χ² / ndf 55.2 / 79
p0 −1.695 ± 7.424
pull
Entries 80
Mean −3.002
Std Dev 67.47

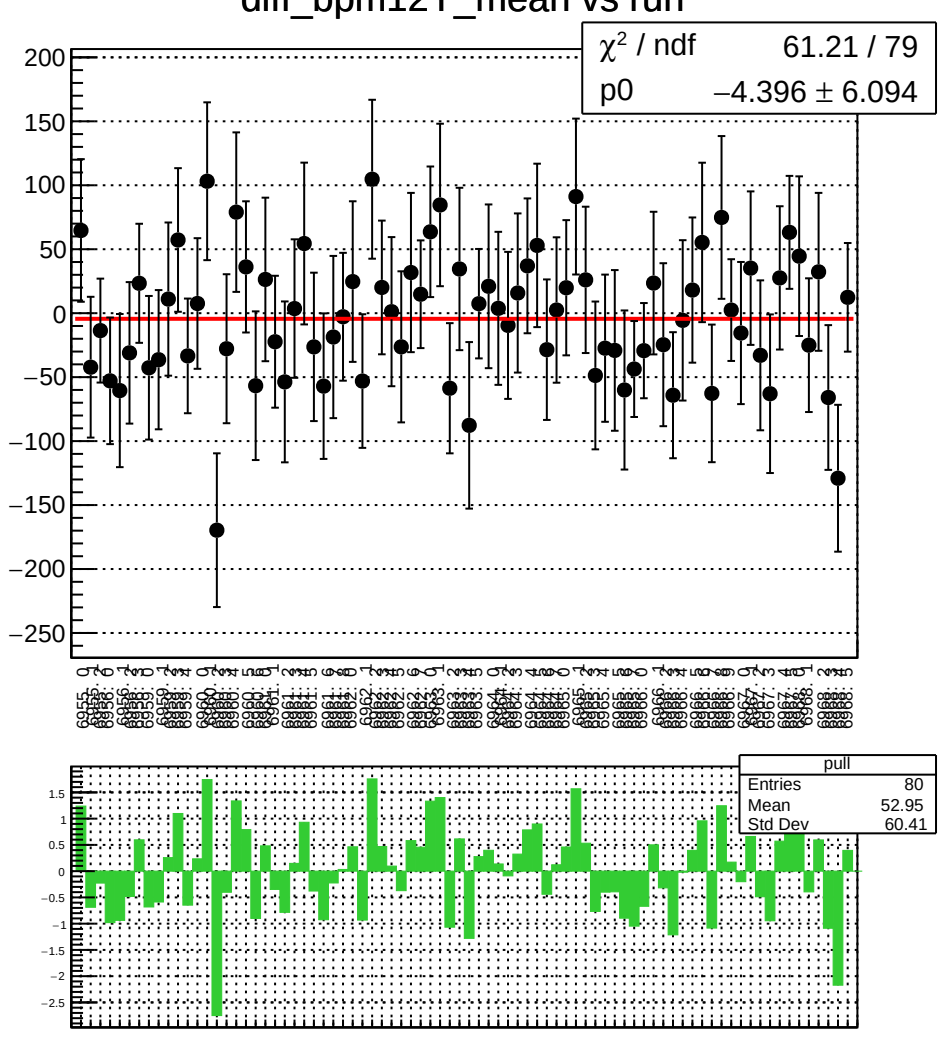

pull1D
Entries 80
Mean 0.02071
Std Dev 0.8304

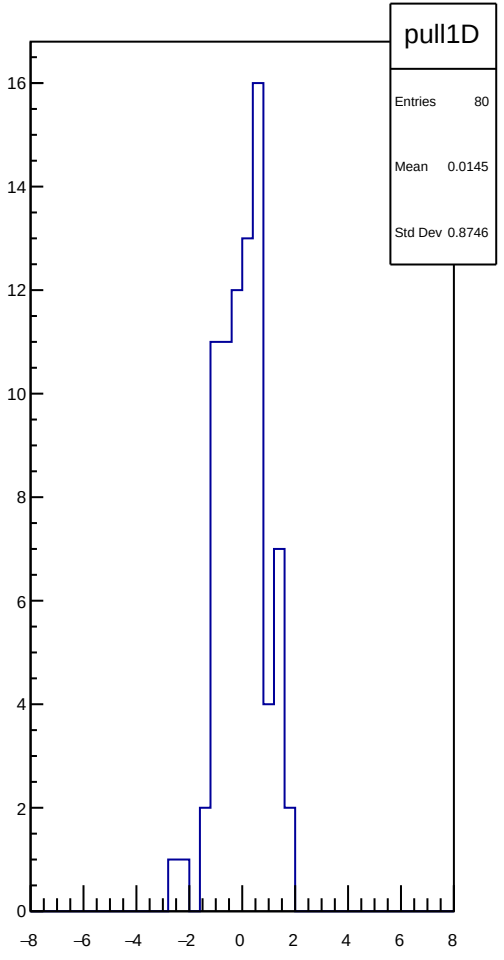

diff_bpm11Y_rms vs run
χ² / ndf 8.448e+04 / 79
p0 6383 ± 5.249
8000
7000
6000
5000
4000
3000
2000

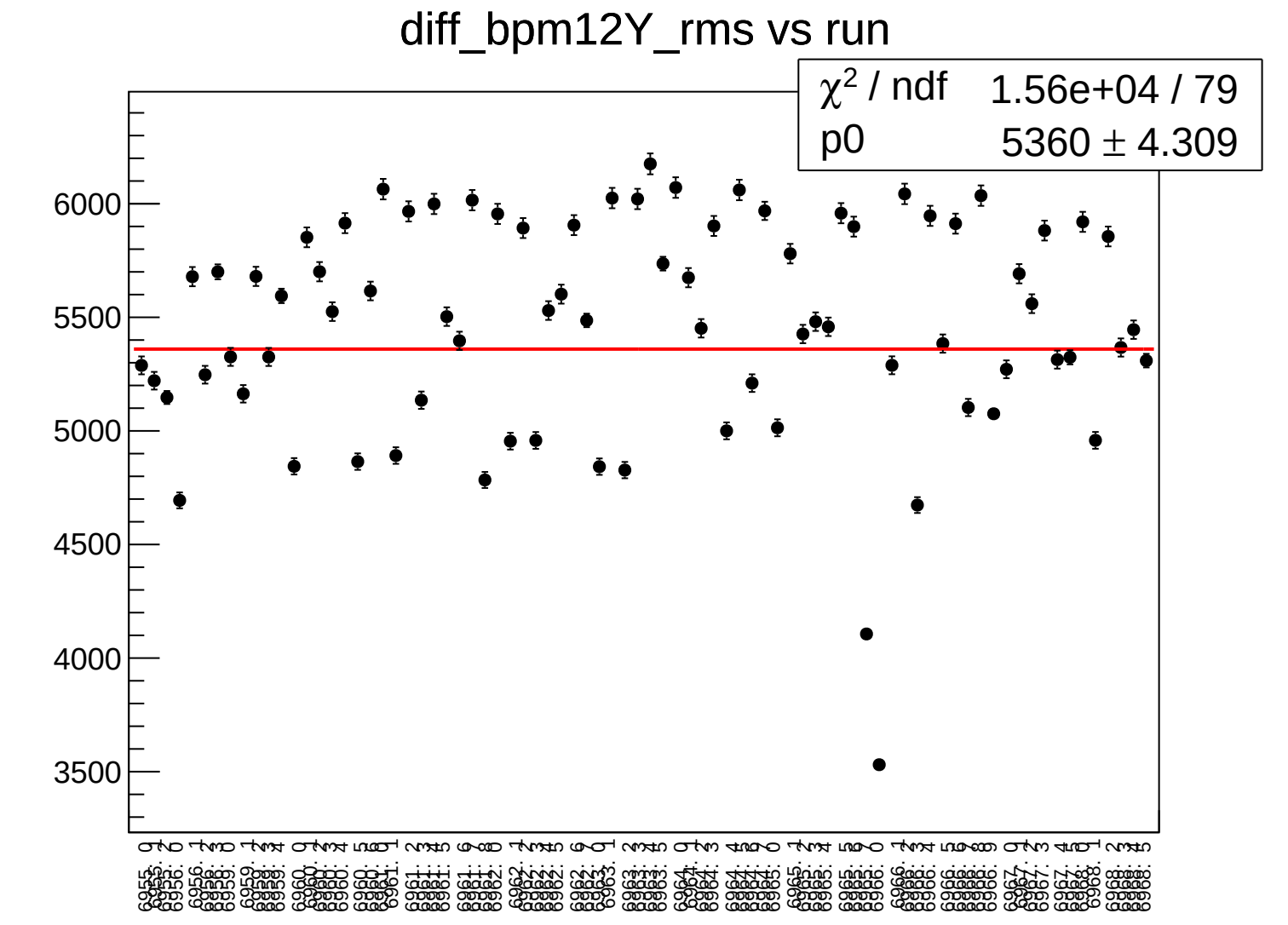

diff_bpm12X_mean vs run
χ² / ndf 84.44 / 79
p0 −24.65 ± 45.99
pull
Entries 80
Mean 4.741
Std Dev 25.48

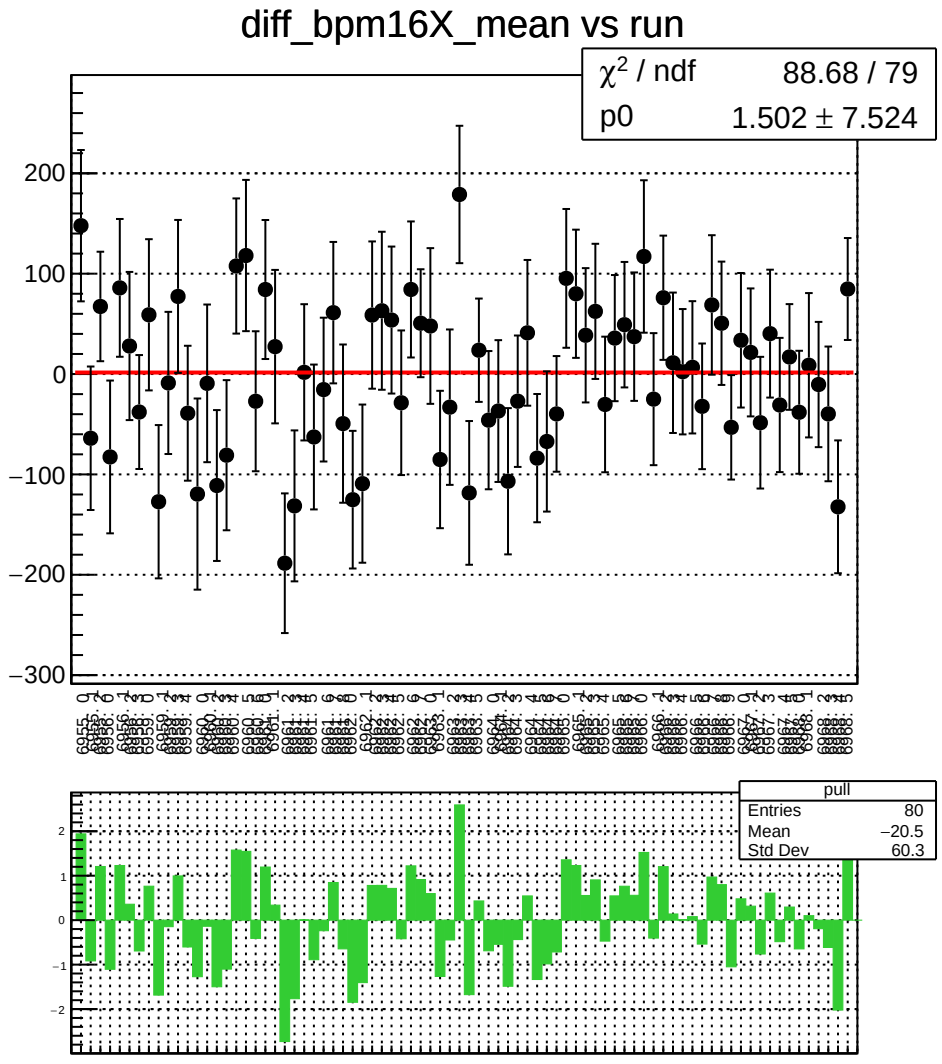

pull1D
Entries 80
Mean −0.02214
Std Dev 1.027

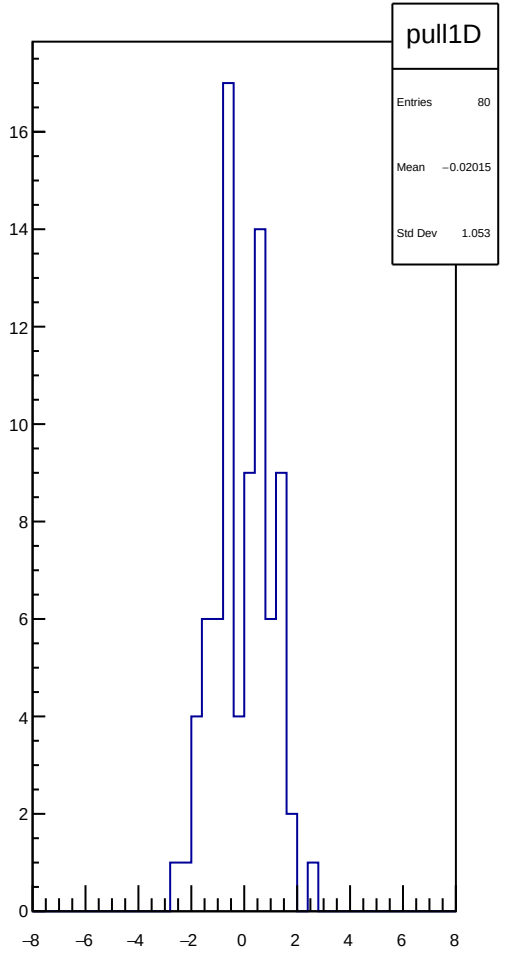

diff_bpm12X_rms vs run
χ² / ndf 1.11e+04 / 79
p0 4.052e+04 ± 32.52
50000
48000
46000
44000
42000
40000
38000
36000
34000
32000

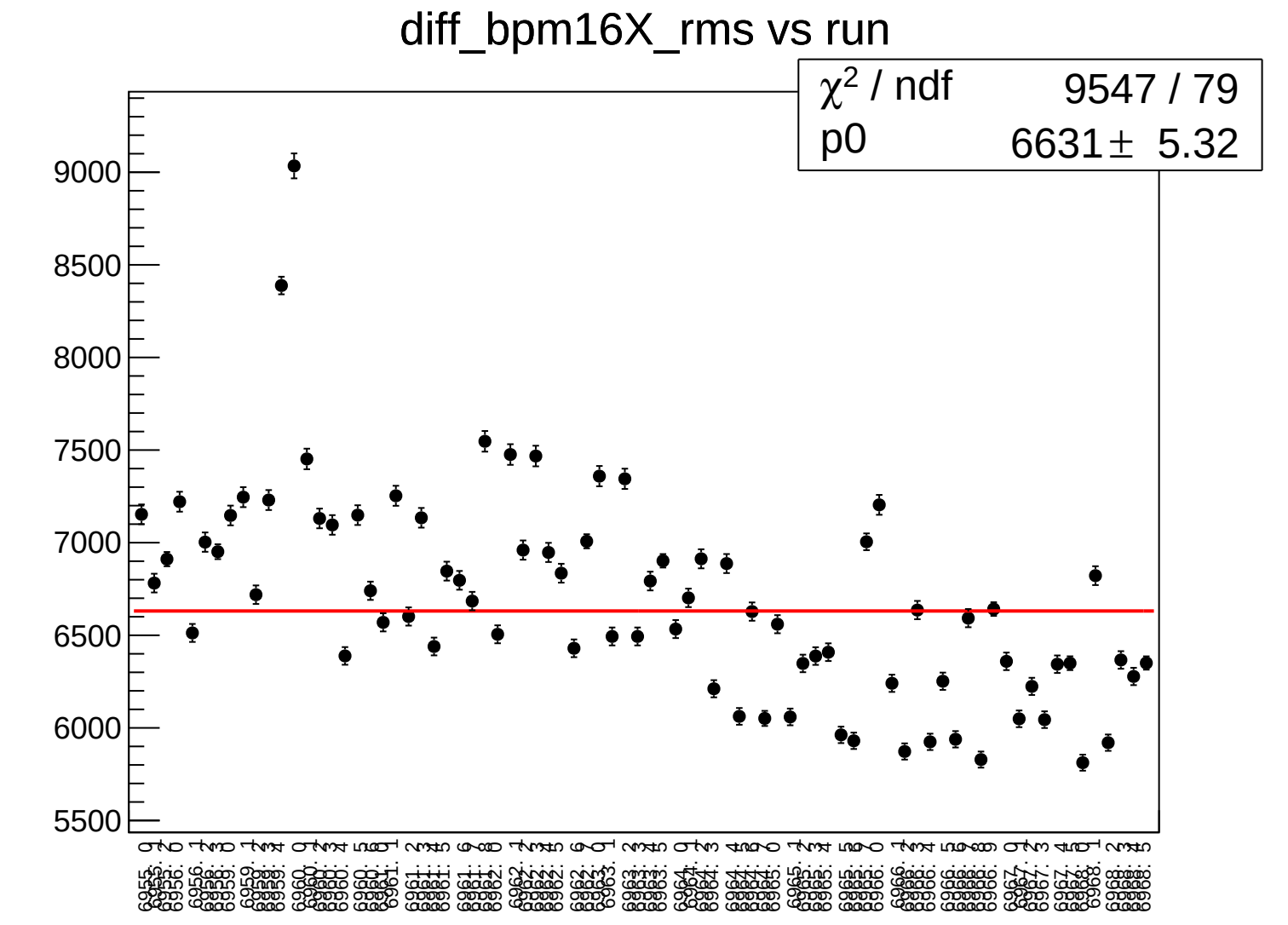

diff_bpm12Y_mean vs run
χ² / ndf 61.21 / 79
p0 −4.396 ± 6.094
pull
Entries 80
Mean 52.95
Std Dev 60.41

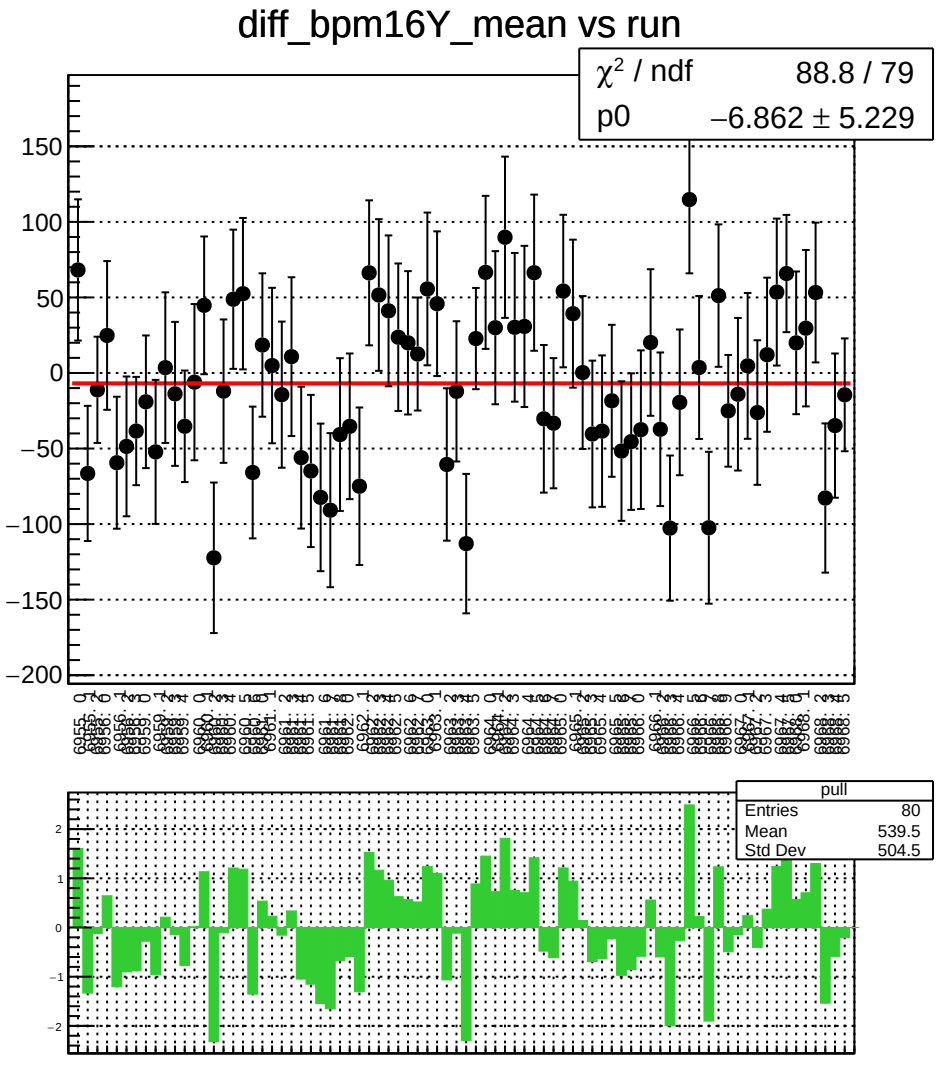

pull1D
Entries 80
Mean 0.0145
Std Dev 0.8746

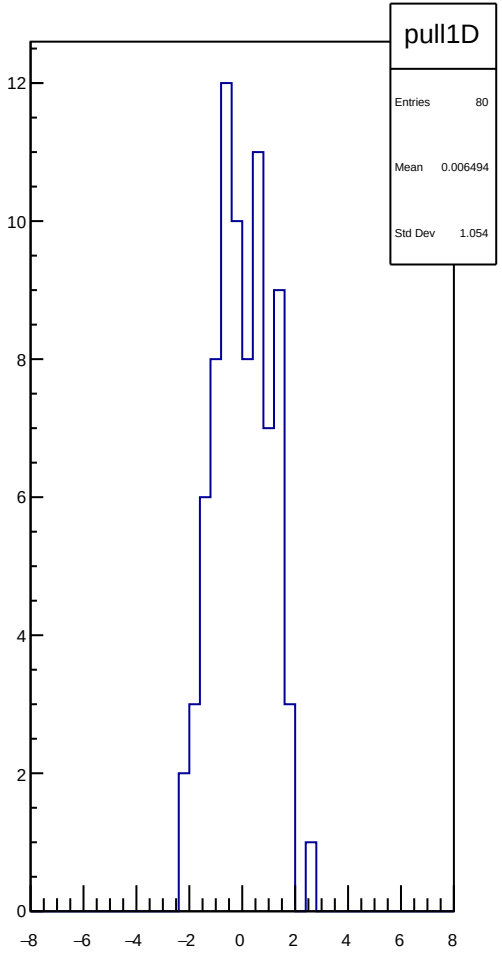

diff_bpm12Y_rms vs run
χ² / ndf 1.56e+04 / 79
p0 5360 ± 4.309
6000
5500
5000
4500
4000
3500

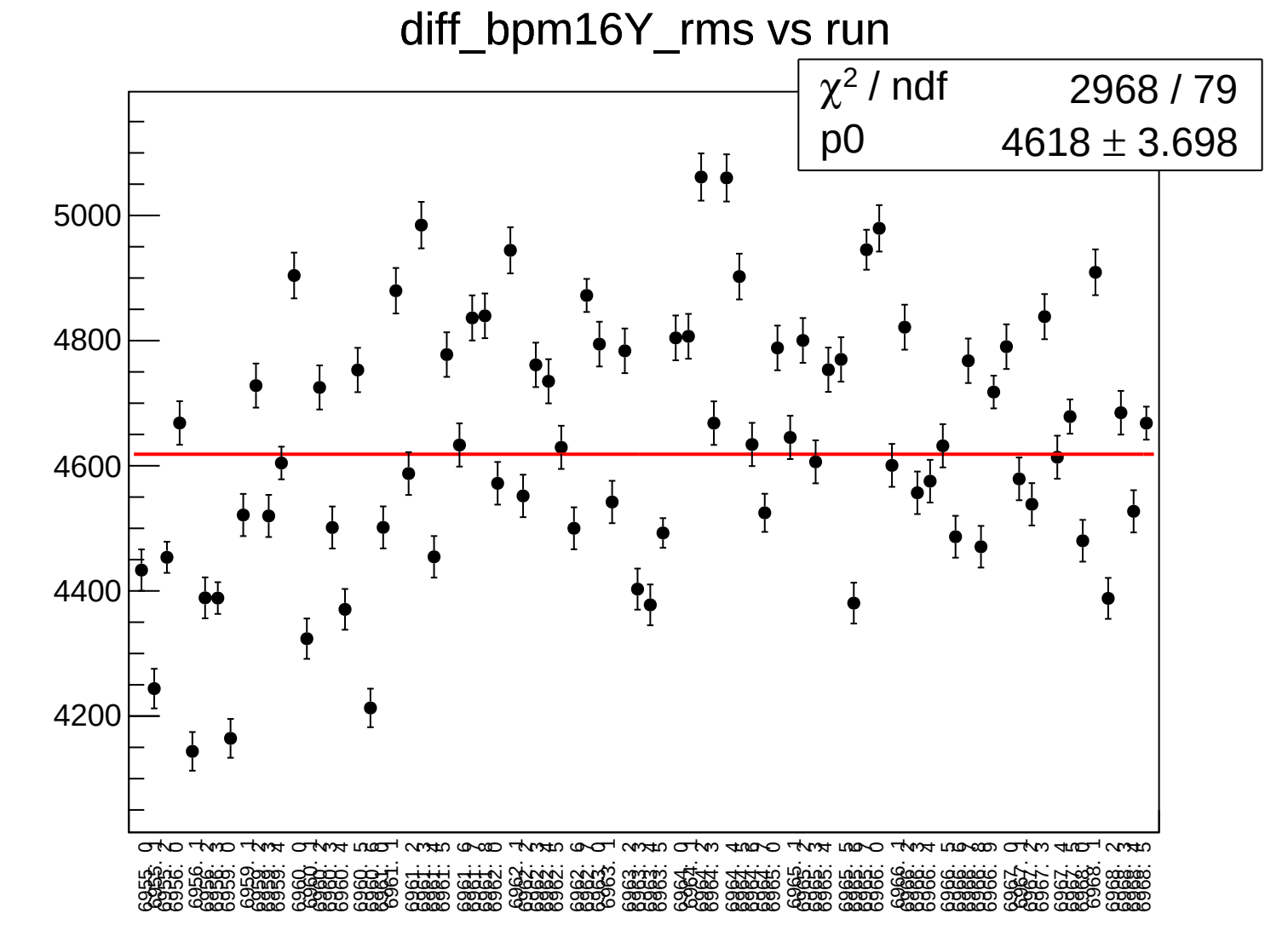

diff_bpm16X_mean vs run
χ² / ndf 88.68 / 79
p0 1.502 ± 7.524
200
100
0
−100
−200
−300
pull
Entries 80
Mean −20.5
Std Dev 60.3
2
1
0
−1
−2

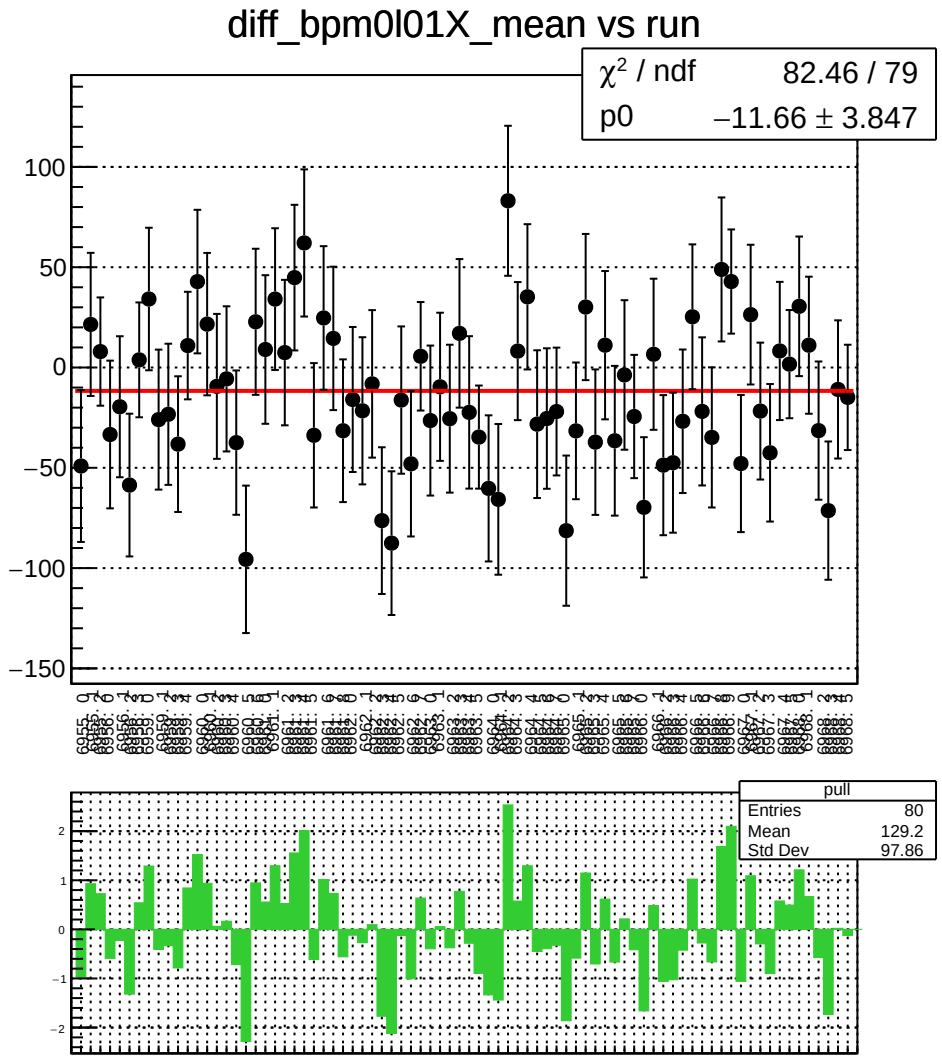

pull1D
Entries 80
Mean −0.02015
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

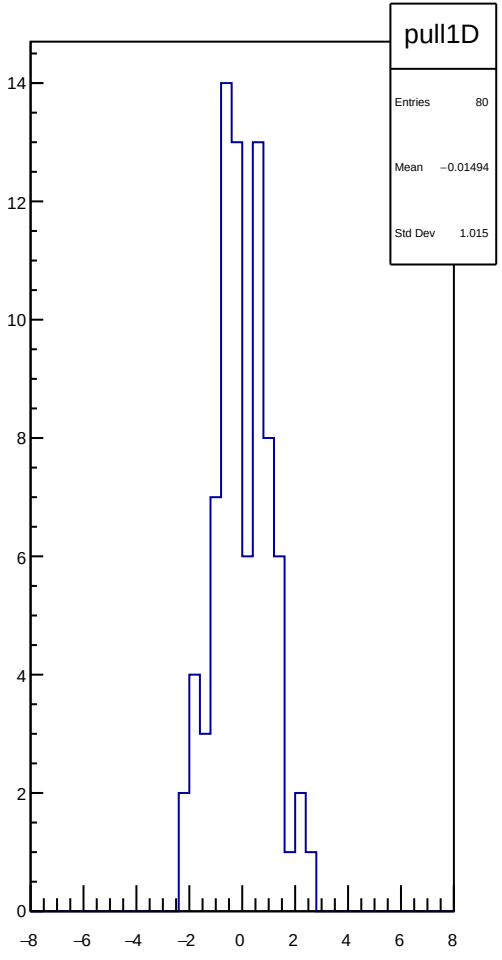

diff_bpm16X_rms vs run
χ² / ndf 9547 / 79
p0 6631 ± 5.32
9000
8500
8000
7500
7000
6500
6000
5500

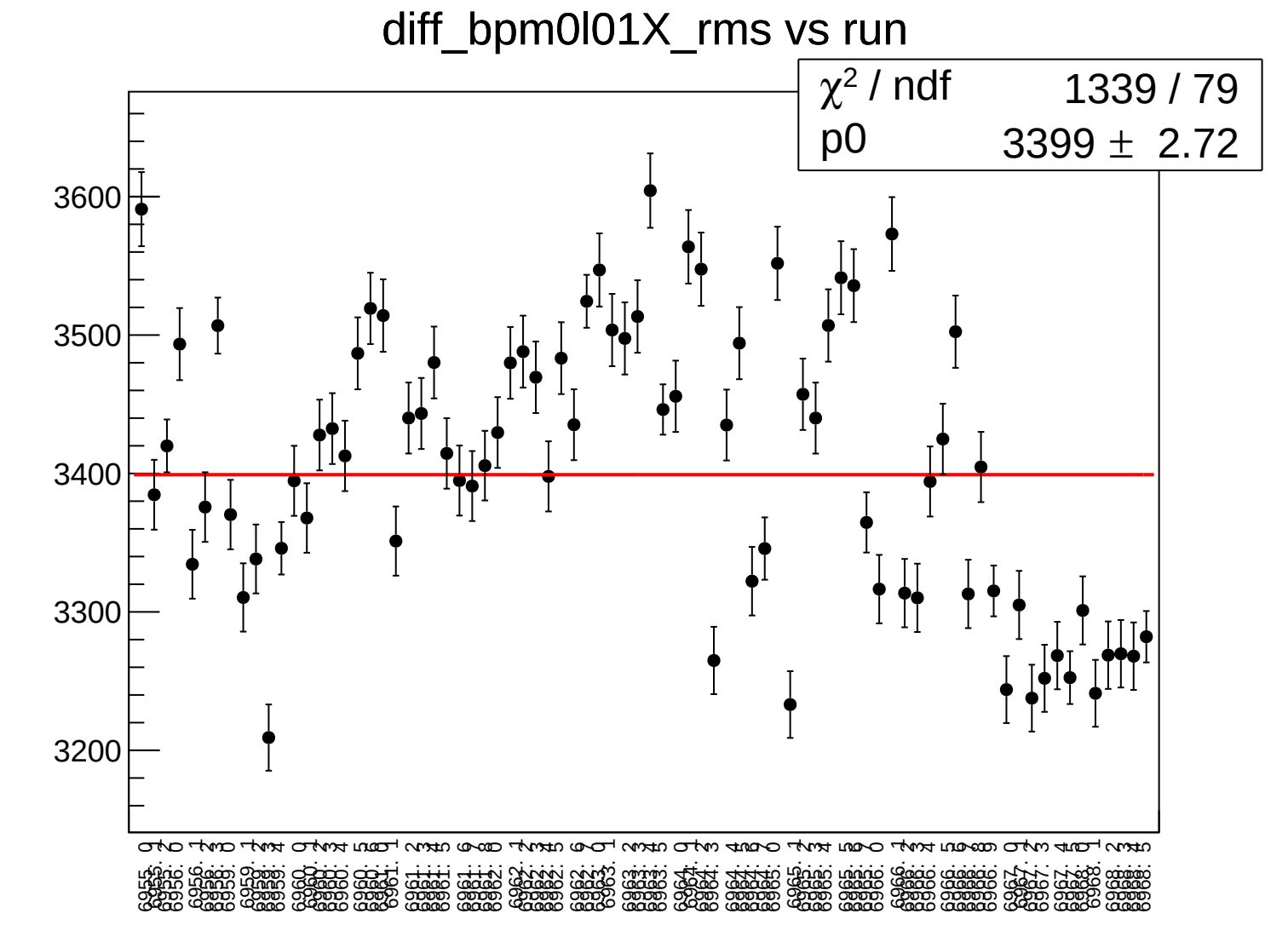

diff_bpm16Y_mean vs run
χ² / ndf 88.8 / 79
p0 −6.862 ± 5.229
pull
Entries 80
Mean 539.5
Std Dev 504.5

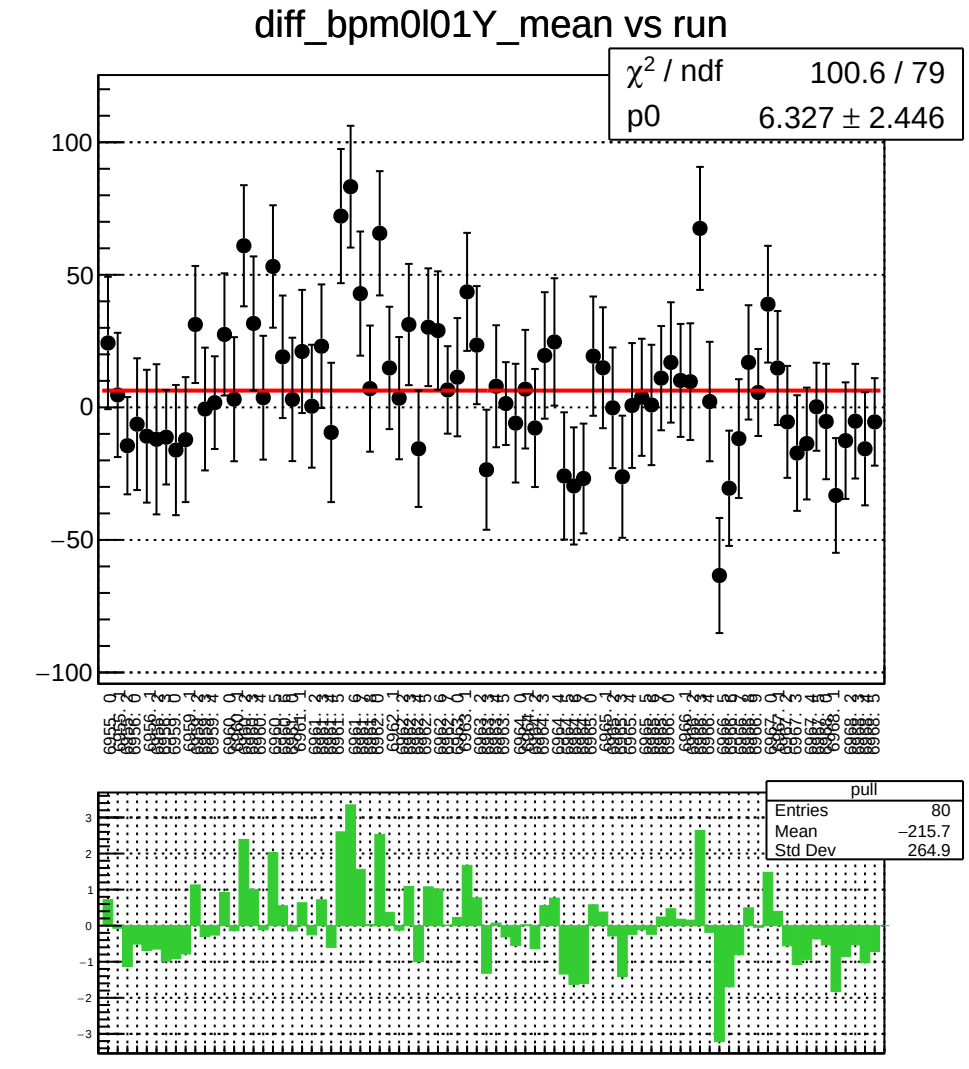

pull1D
Entries 80
Mean 0.006494
Std Dev 1.054

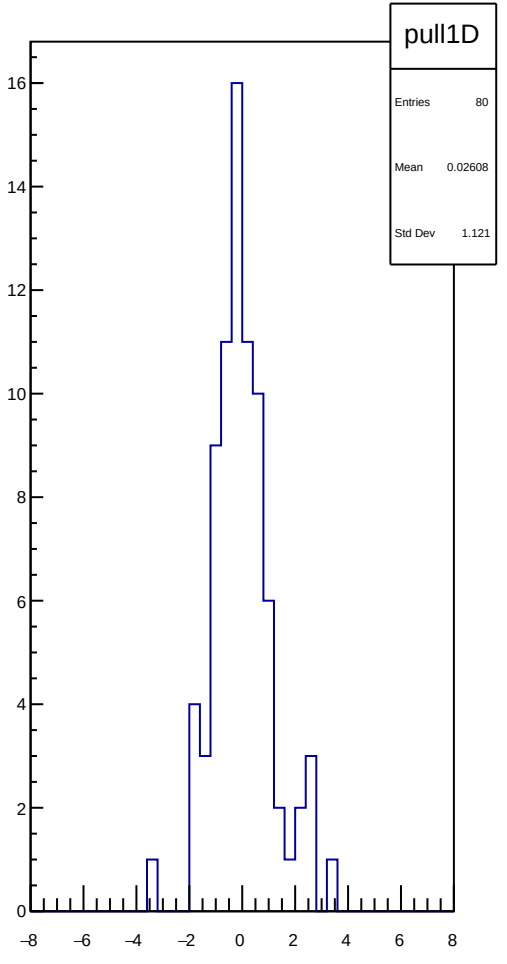

diff_bpm16Y_rms vs run
χ^2 / ndf 2968 / 79
p0 4618 ± 3.698
5000
4800
4600
4400
4200

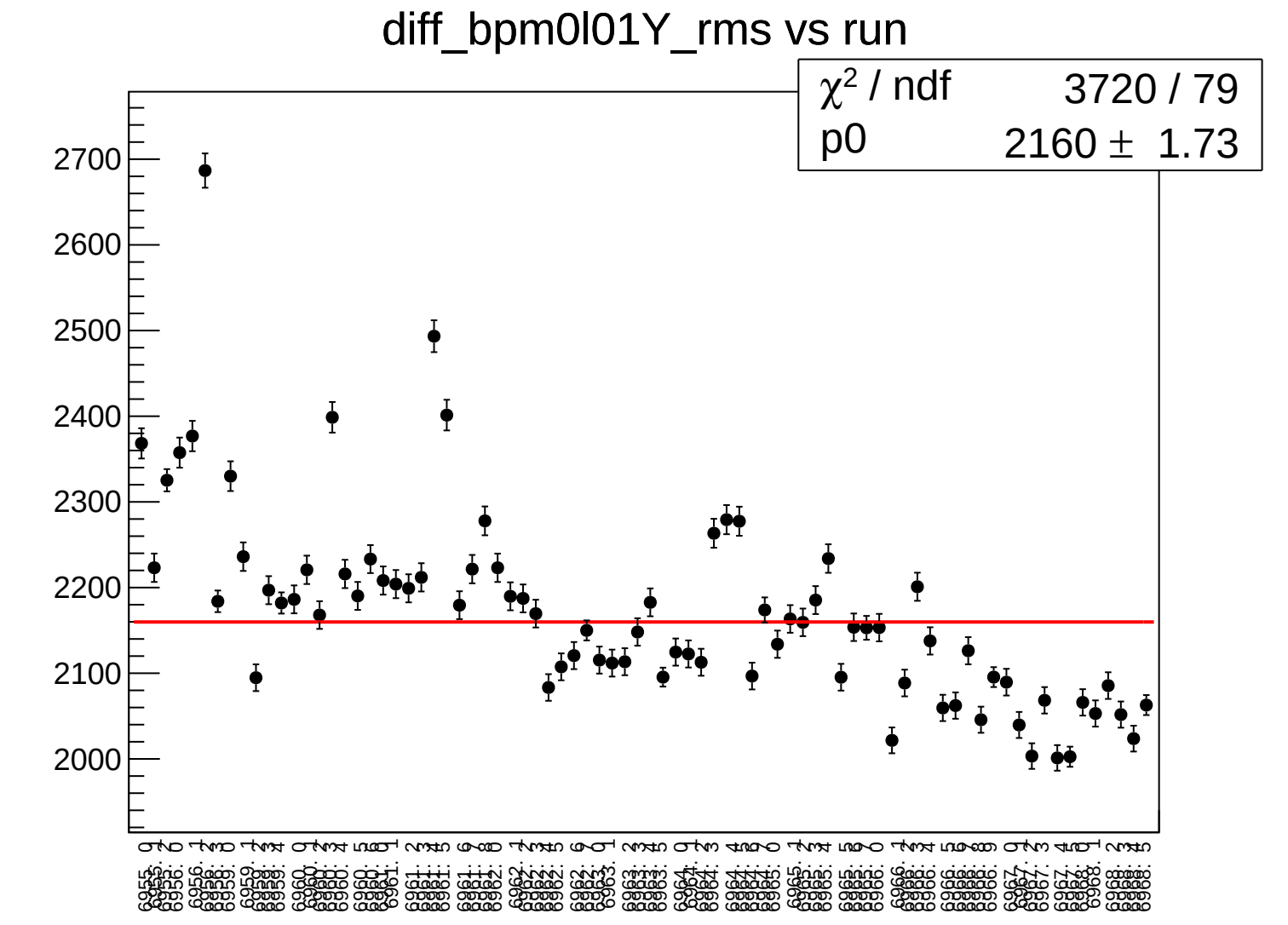

diff_bpm0l01X_mean vs run
χ² / ndf 82.46 / 79
p0 −11.66 ± 3.847
pull
Entries 80
Mean 129.2
Std Dev 97.86

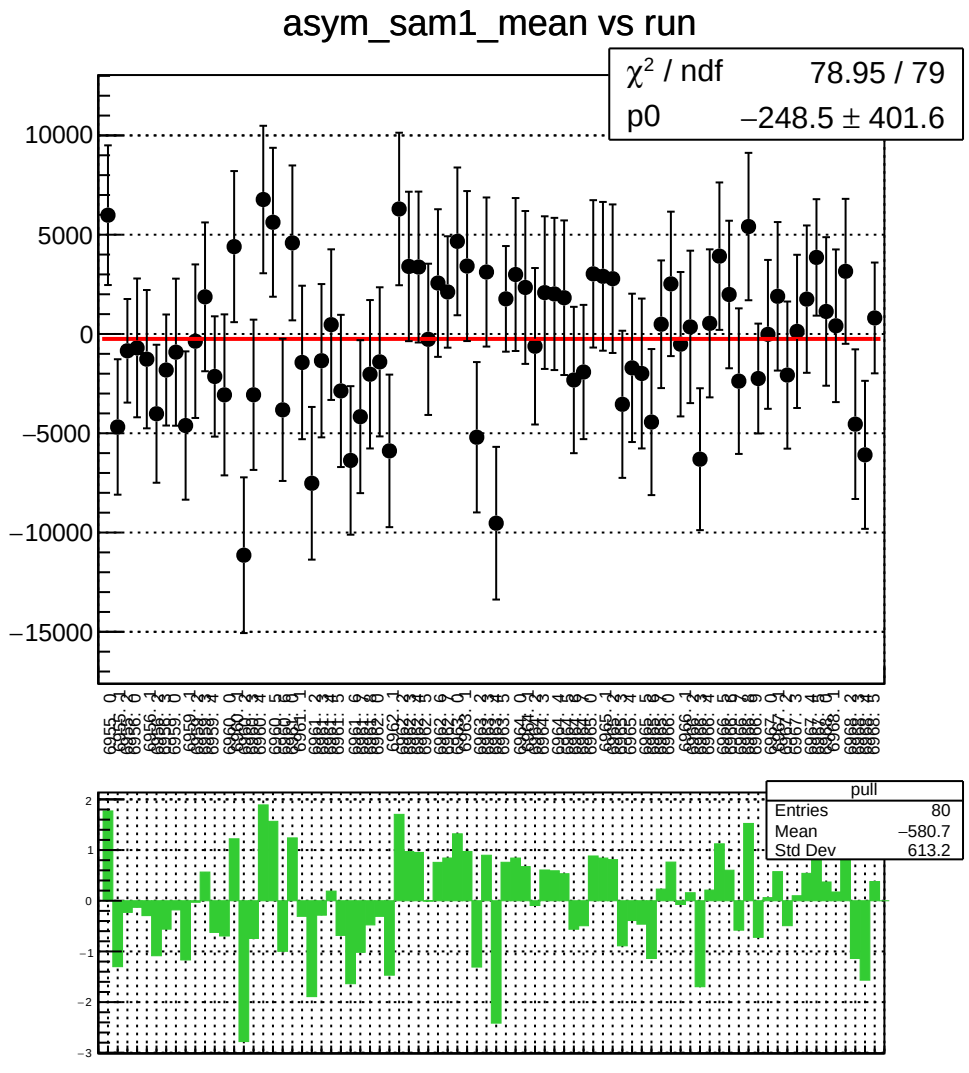

pull1D
Entries 80
Mean −0.01494
Std Dev 1.015

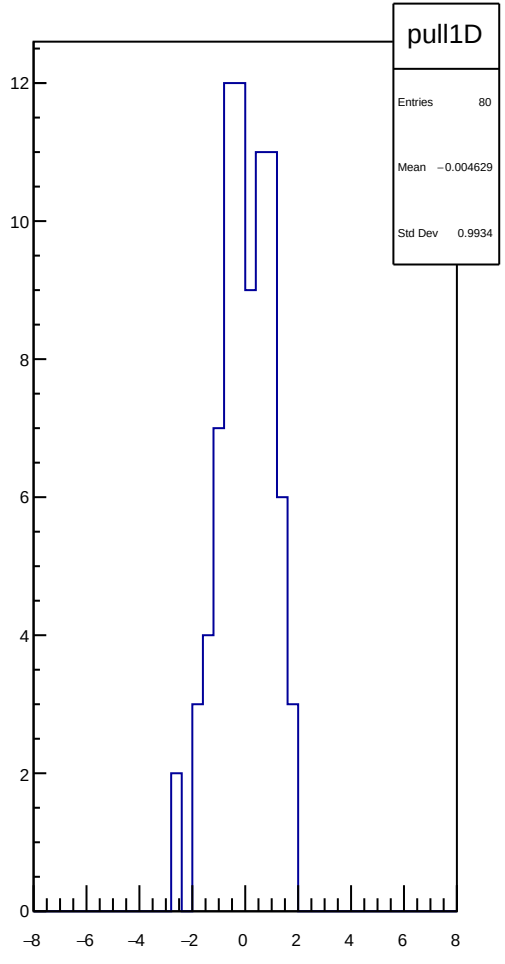

diff_bpm0l01X_rms vs run
χ² / ndf 1339 / 79
p0 3399 ± 2.72
3600
3500
3400
3300
3200

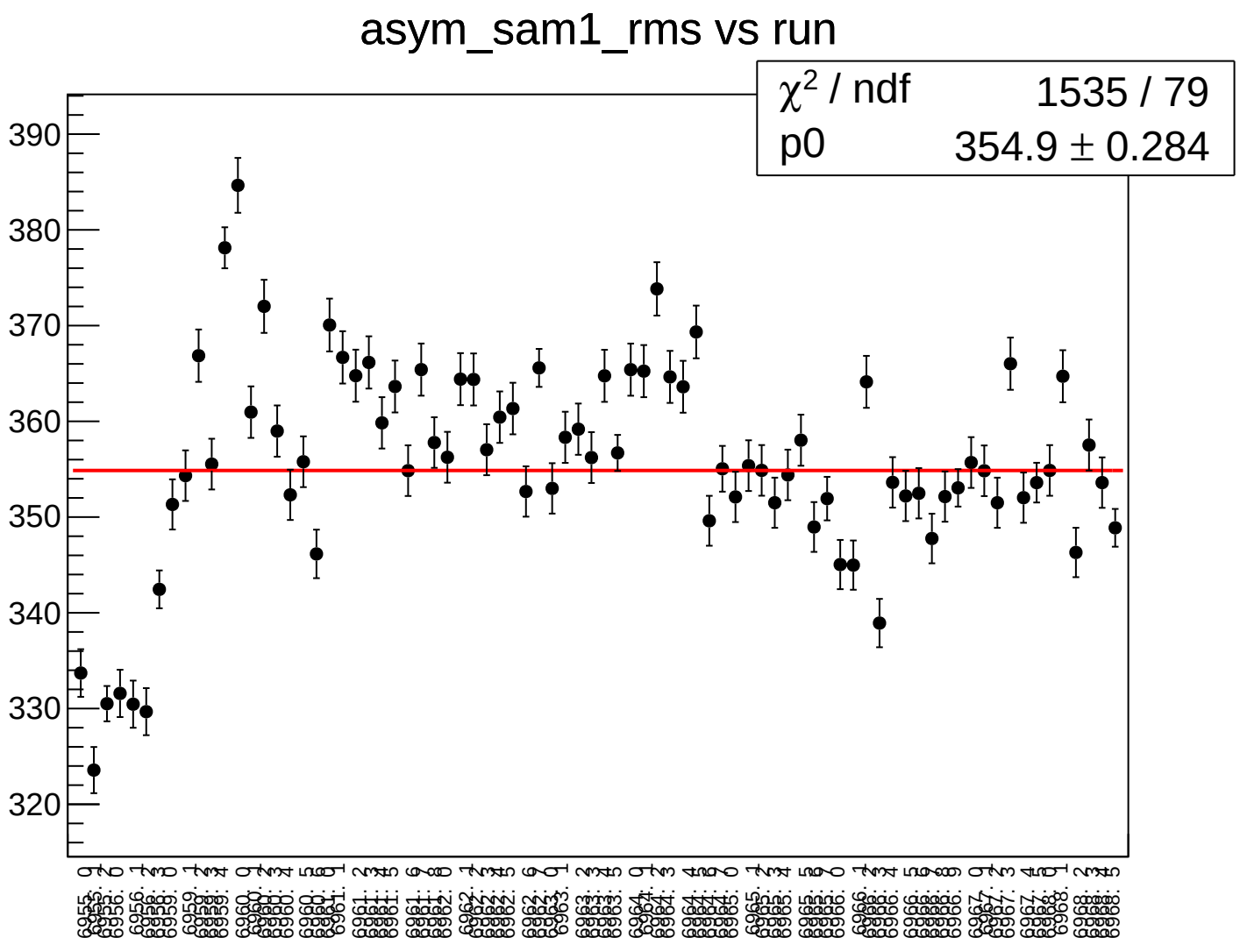

diff_bpm0l01Y_mean vs run
χ² / ndf 100.6 / 79
p0 6.327 ± 2.446
100
50
0
−50
−100
pull
Entries 80
Mean −215.7
Std Dev 264.9
3
2
1
0
−1
−2
−3

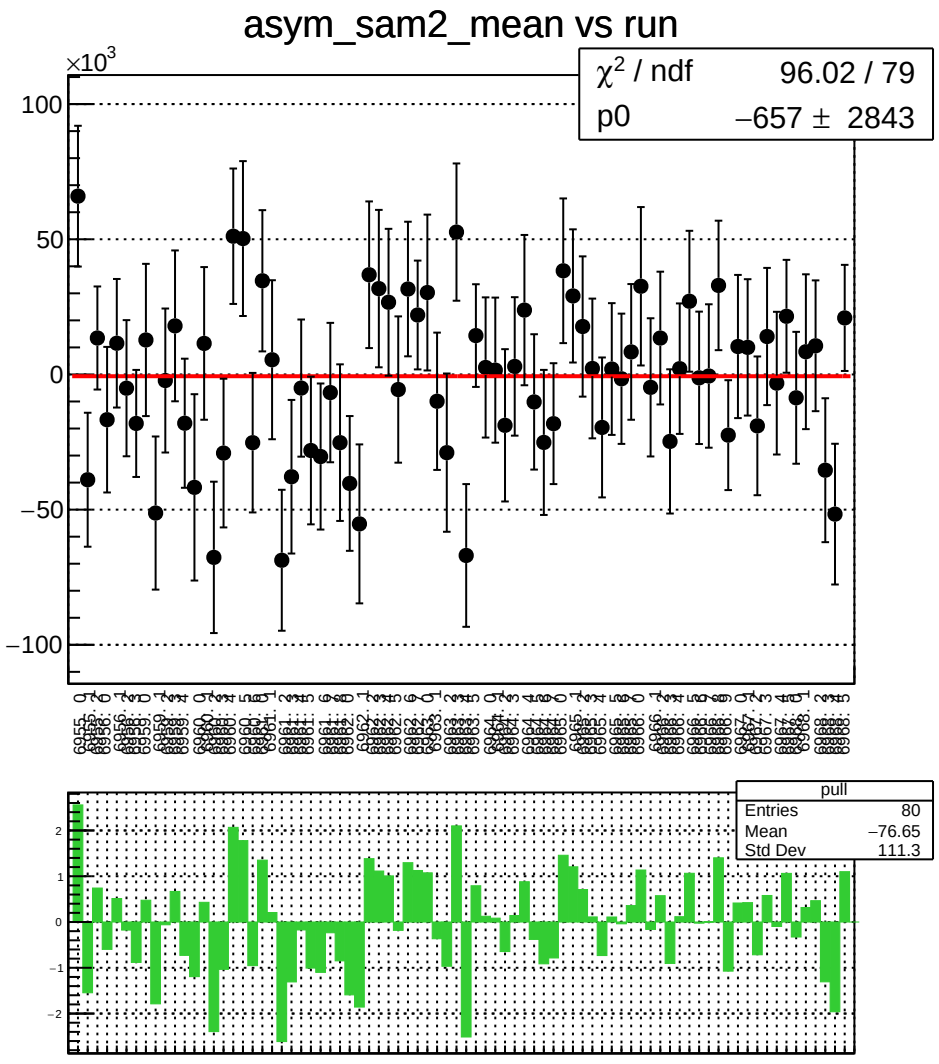

pull1D
Entries 80
Mean 0.02608
Std Dev 1.121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

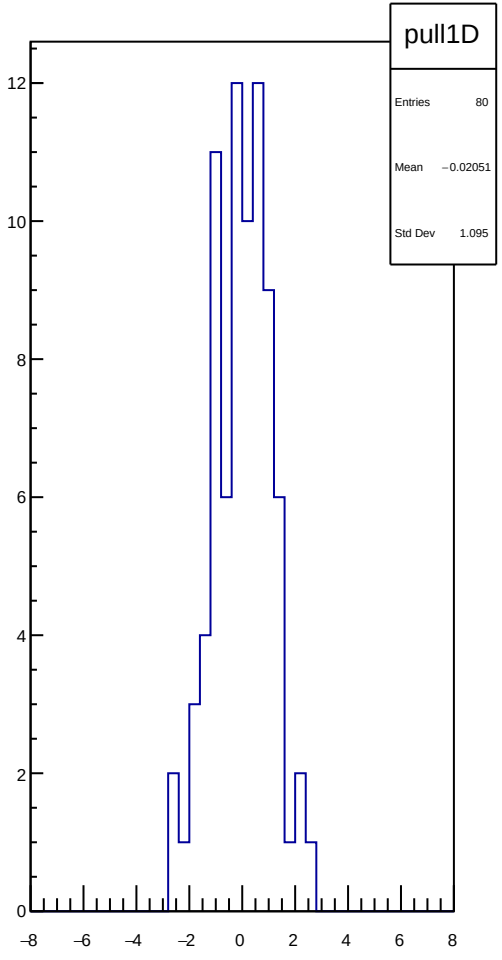

diff_bpm0l01Y_rms vs run
χ² / ndf 3720 / 79
p0 2160 ± 1.73
2700
2600
2500
2400
2300
2200
2100
2000

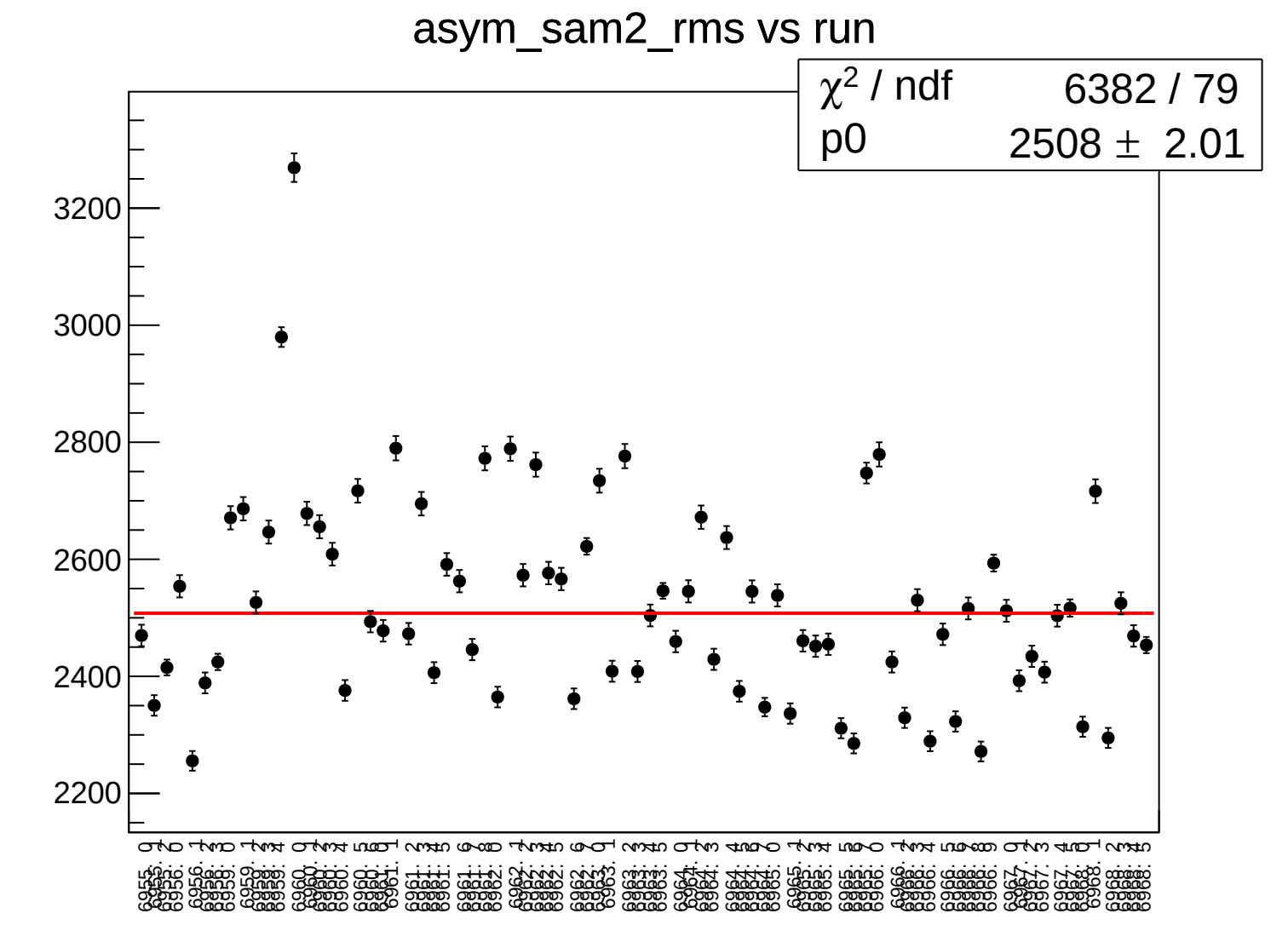

asym_sam1_mean vs run
χ² / ndf 78.95 / 79
p0 −248.5 ± 401.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 80
Mean −580.7
Std Dev 613.2
2
1
0
−1
−2
−3

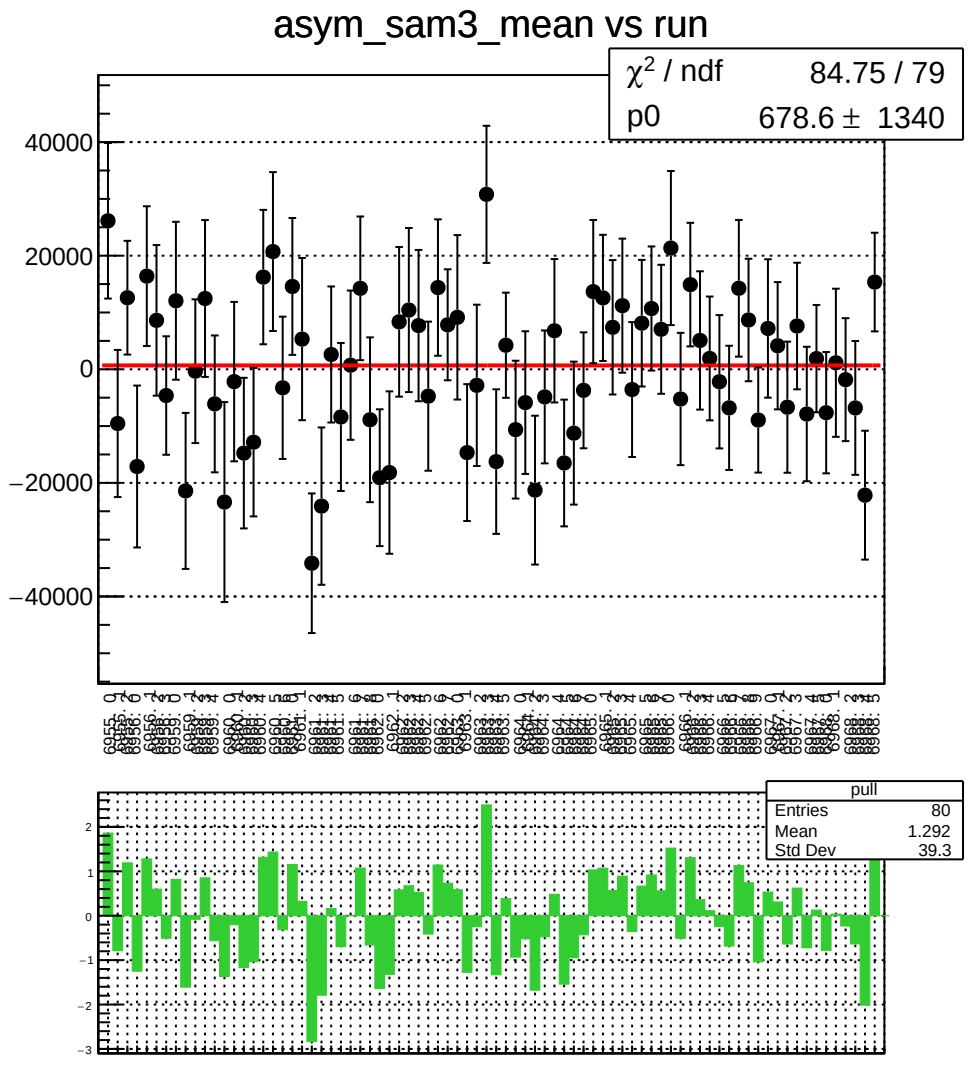

pull1D
Entries 80
Mean −0.004629
Std Dev 0.9934
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

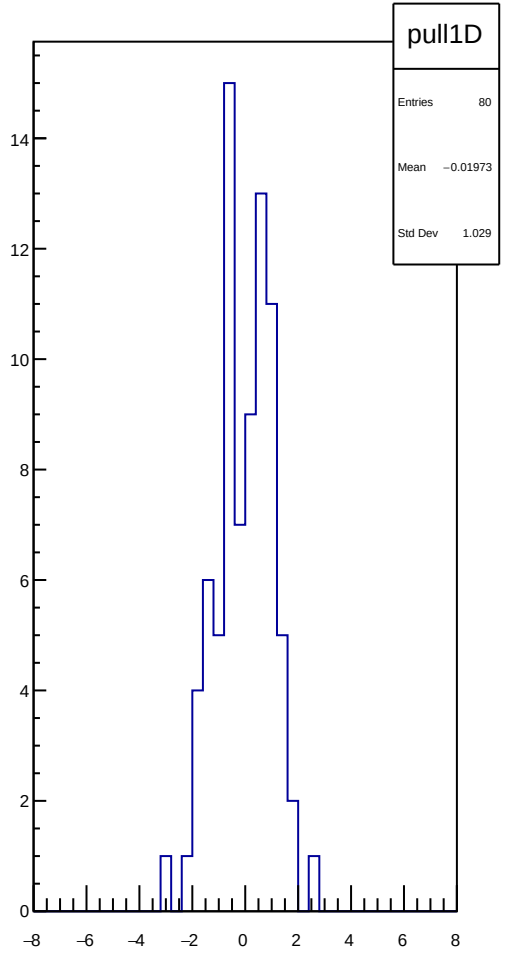

asym_sam1_rms vs run
χ² / ndf 1535 / 79
p0 354.9 ± 0.284
390
380
370
360
350
340
330
320

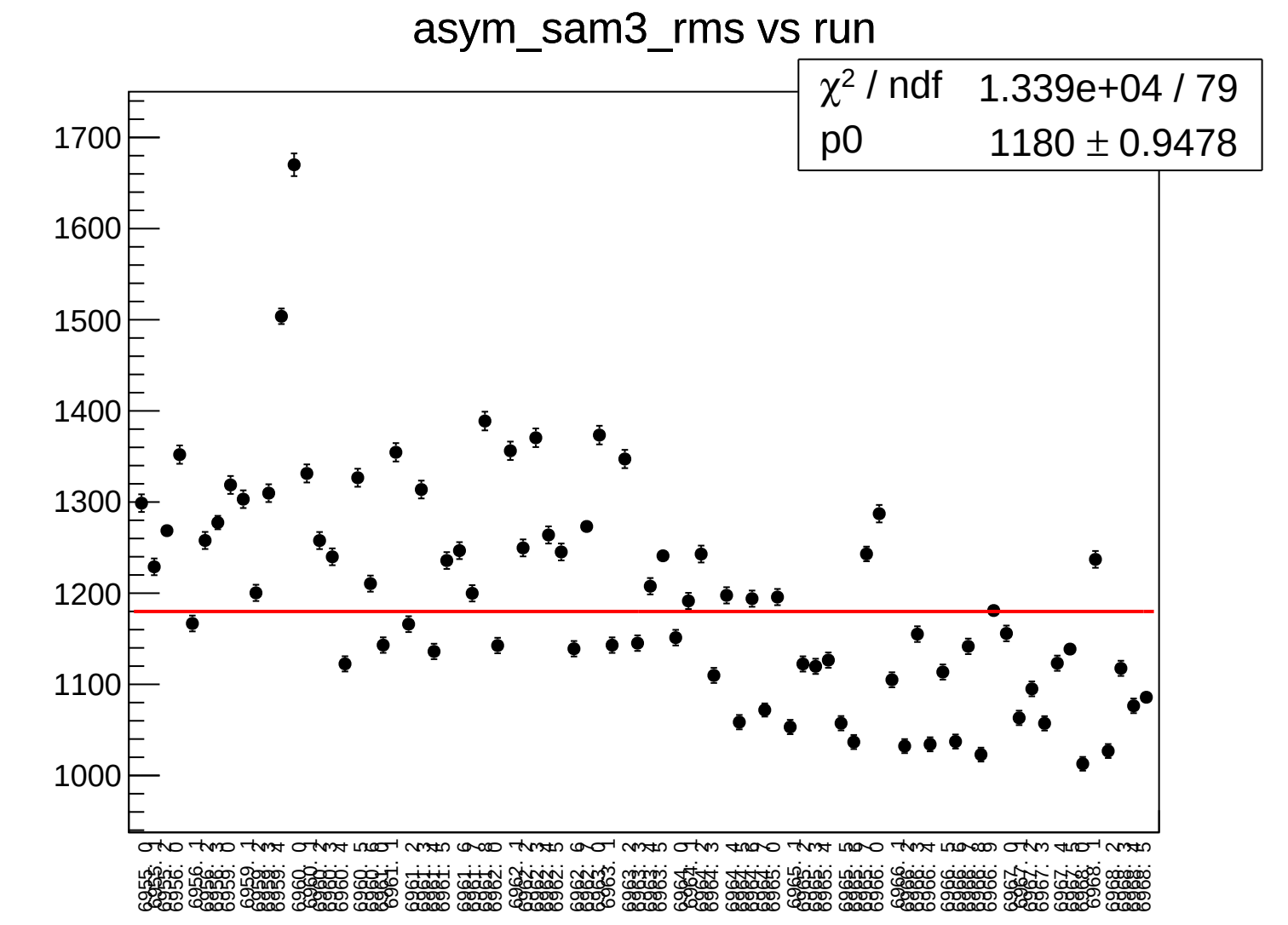

asym_sam2_mean vs run
×10^3
χ² / ndf 96.02 / 79
p0 −657 ± 2843
100
50
0
−50
−100
pull
Entries 80
Mean −76.65
Std Dev 111.3
2
1
0
−1
−2

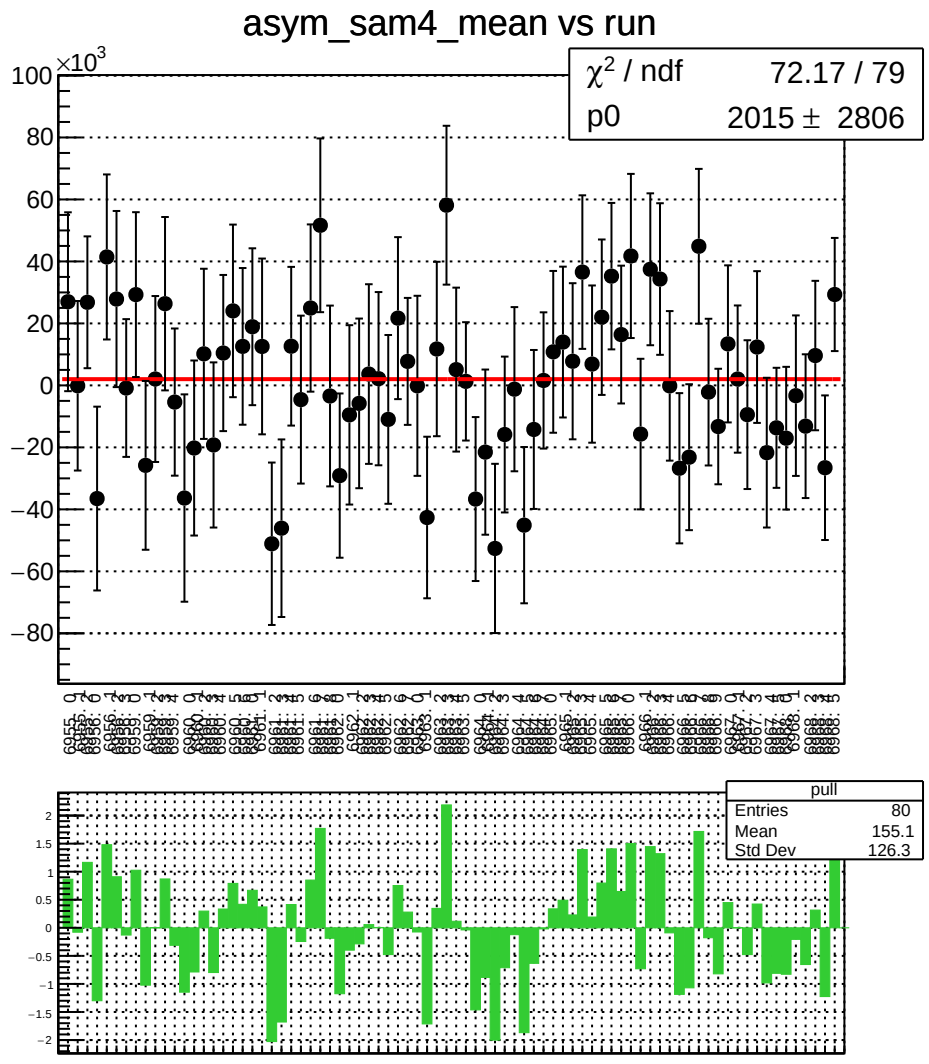

pull1D
Entries 80
Mean −0.02051
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

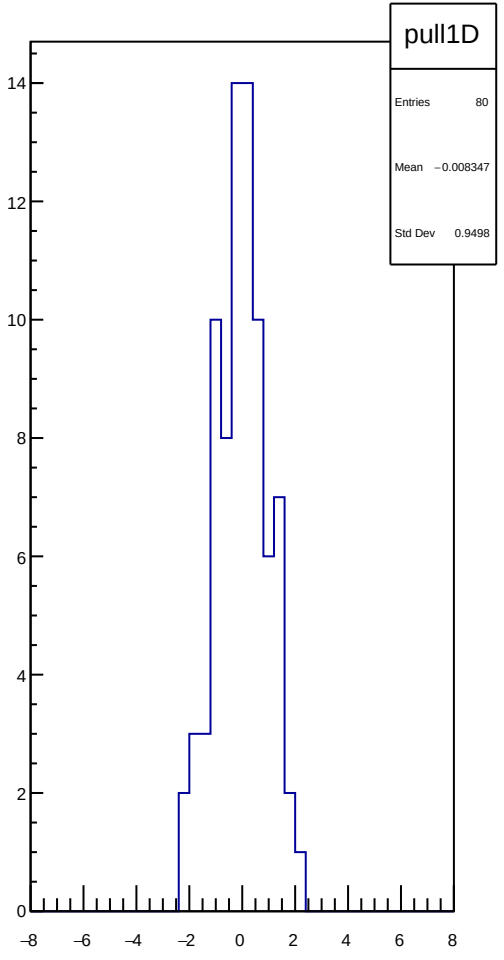

asym_sam2_rms vs run
χ² / ndf 6382 / 79
p0 2508 ± 2.01
3200
3000
2800
2600
2400
2200

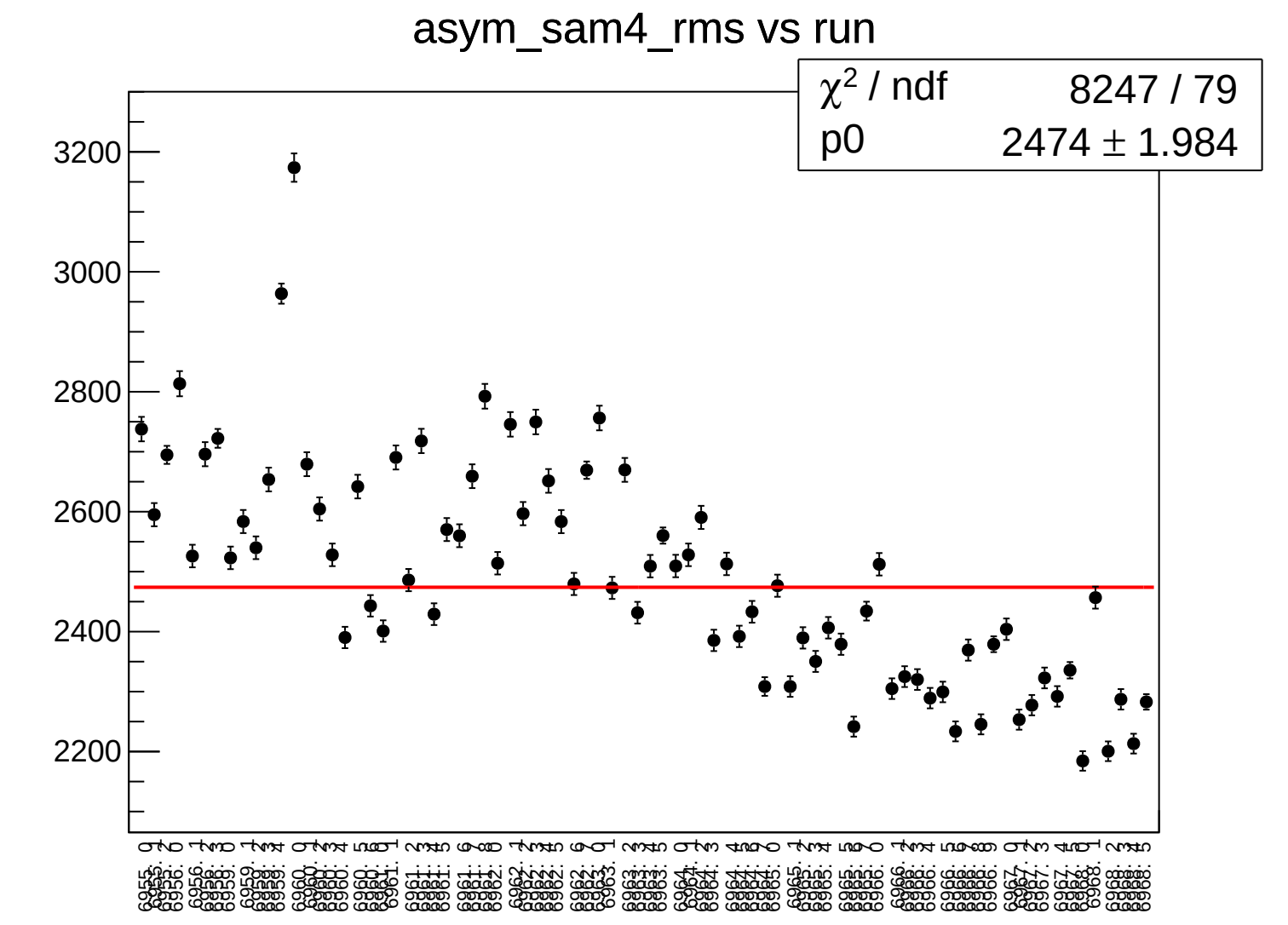

asym_sam3_mean vs run
χ² / ndf 84.75 / 79
p0 678.6 ± 1340
40000
20000
0
−20000
−40000
pull
Entries 80
Mean 1.292
Std Dev 39.3
2
1
0
−1
−2
−3

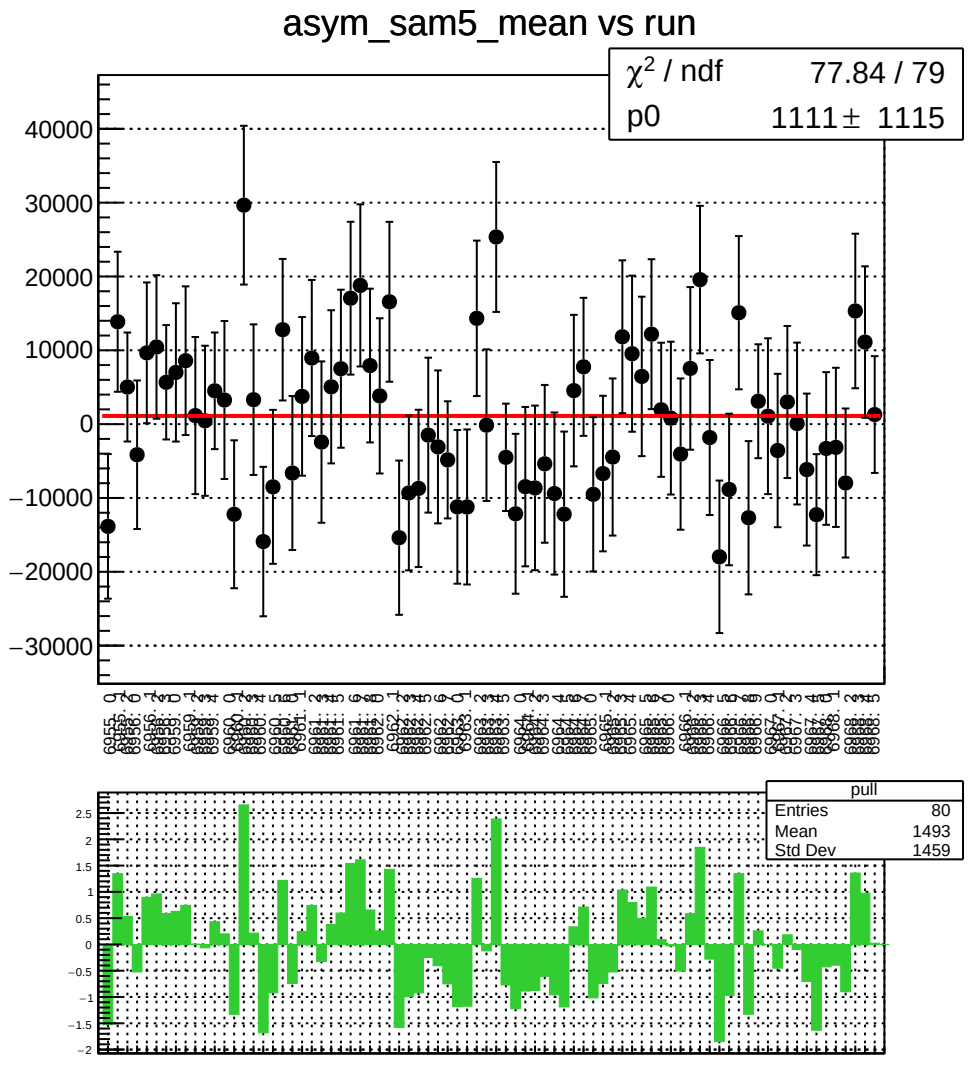

pull1D
Entries 80
Mean −0.01973
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

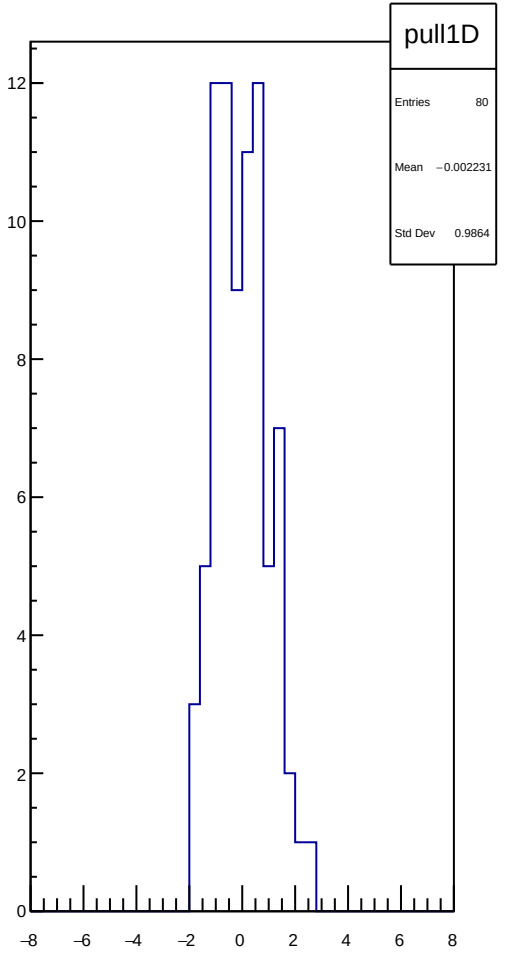

asym_sam3_rms vs run
χ² / ndf 1.339e+04 / 79
p0 1180 ± 0.9478
1700
1600
1500
1400
1300
1200
1100
1000

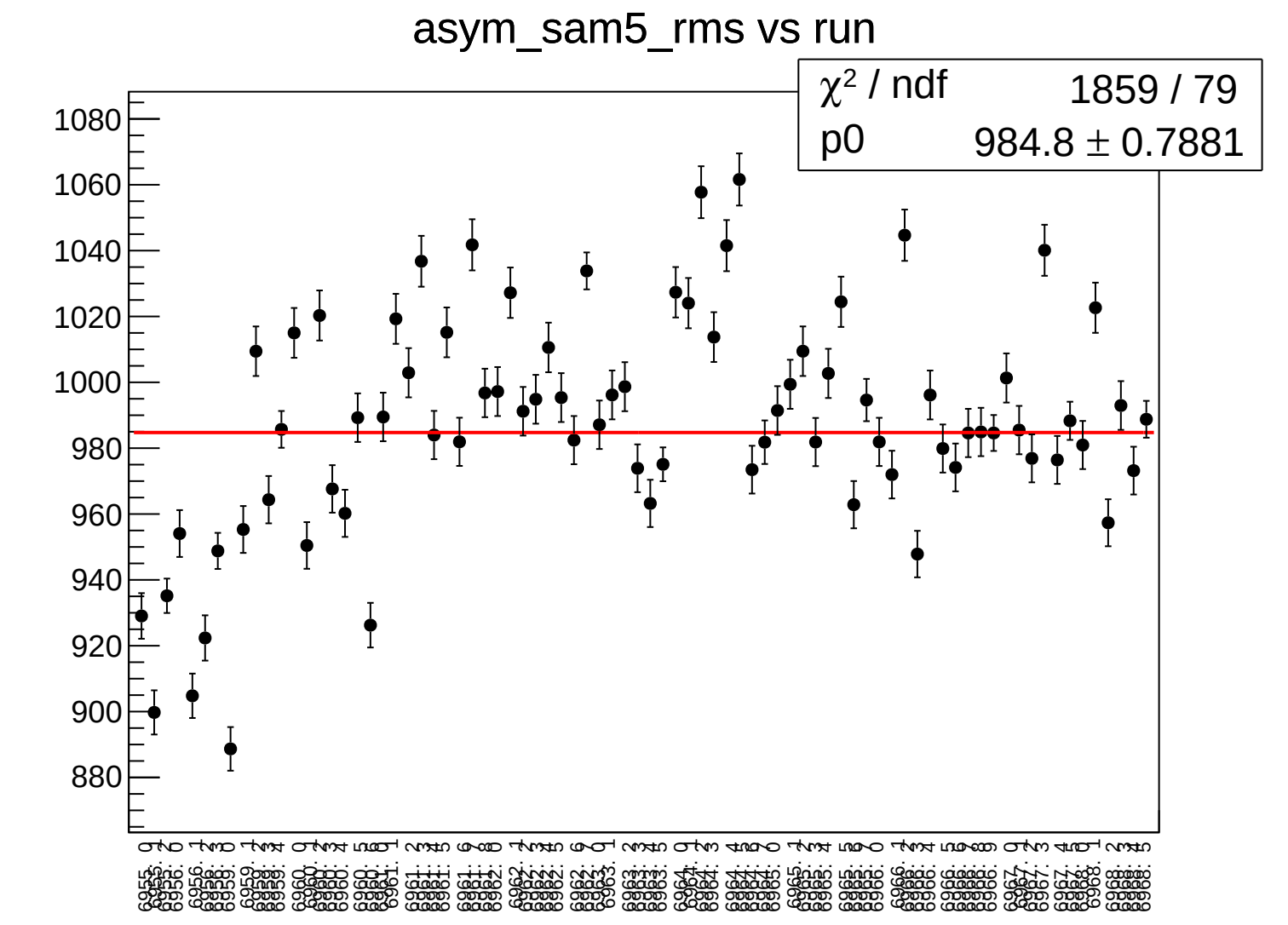

asym_sam4_mean vs run
χ² / ndf 72.17 / 79
p0 2015 ± 2806
×10³
pull
Entries 80
Mean 155.1
Std Dev 126.3

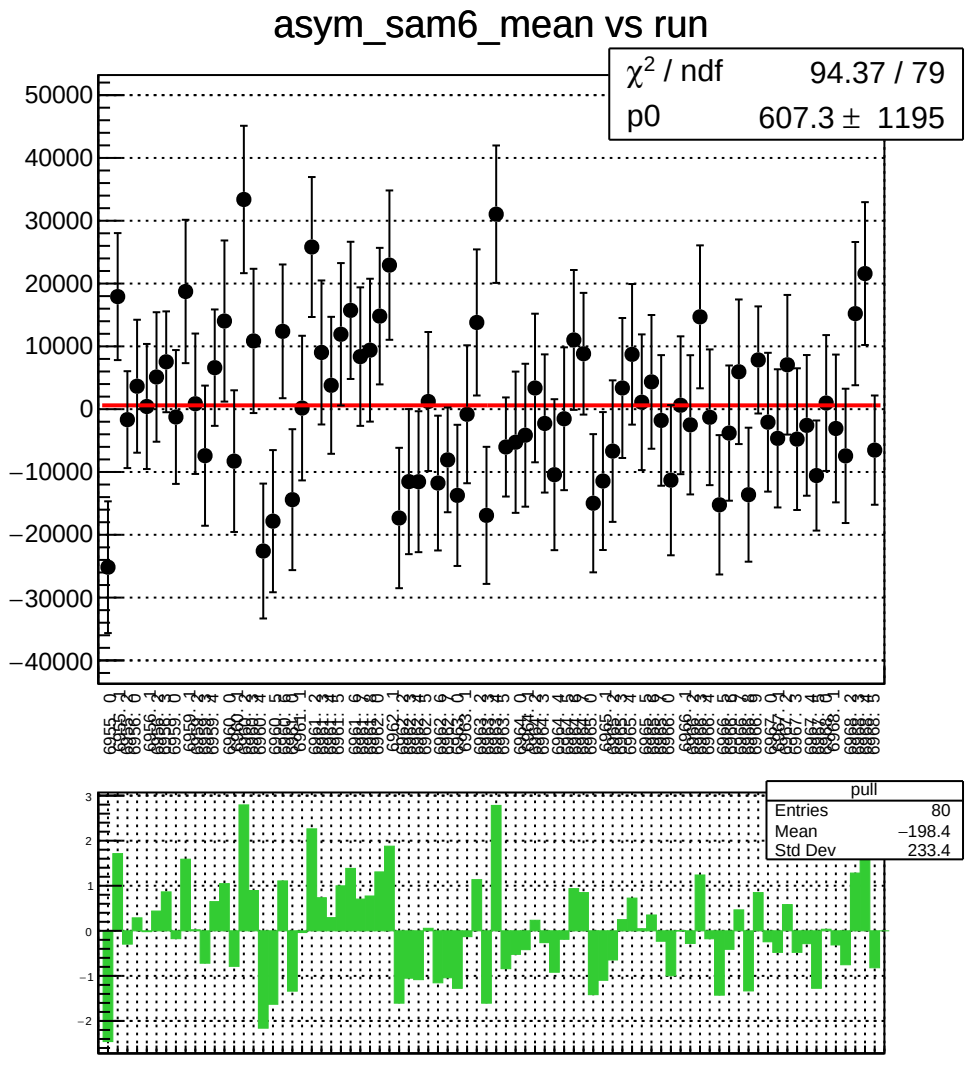

pull1D
Entries 80
Mean −0.008347
Std Dev 0.9498

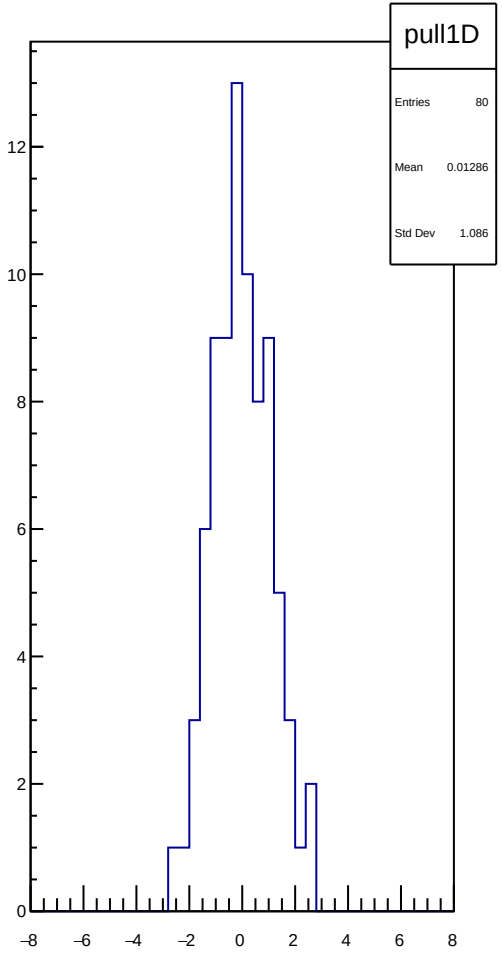

asym_sam4_rms vs run
χ^2 / ndf 8247 / 79
p0 2474 ± 1.984
3200
3000
2800
2600
2400
2200

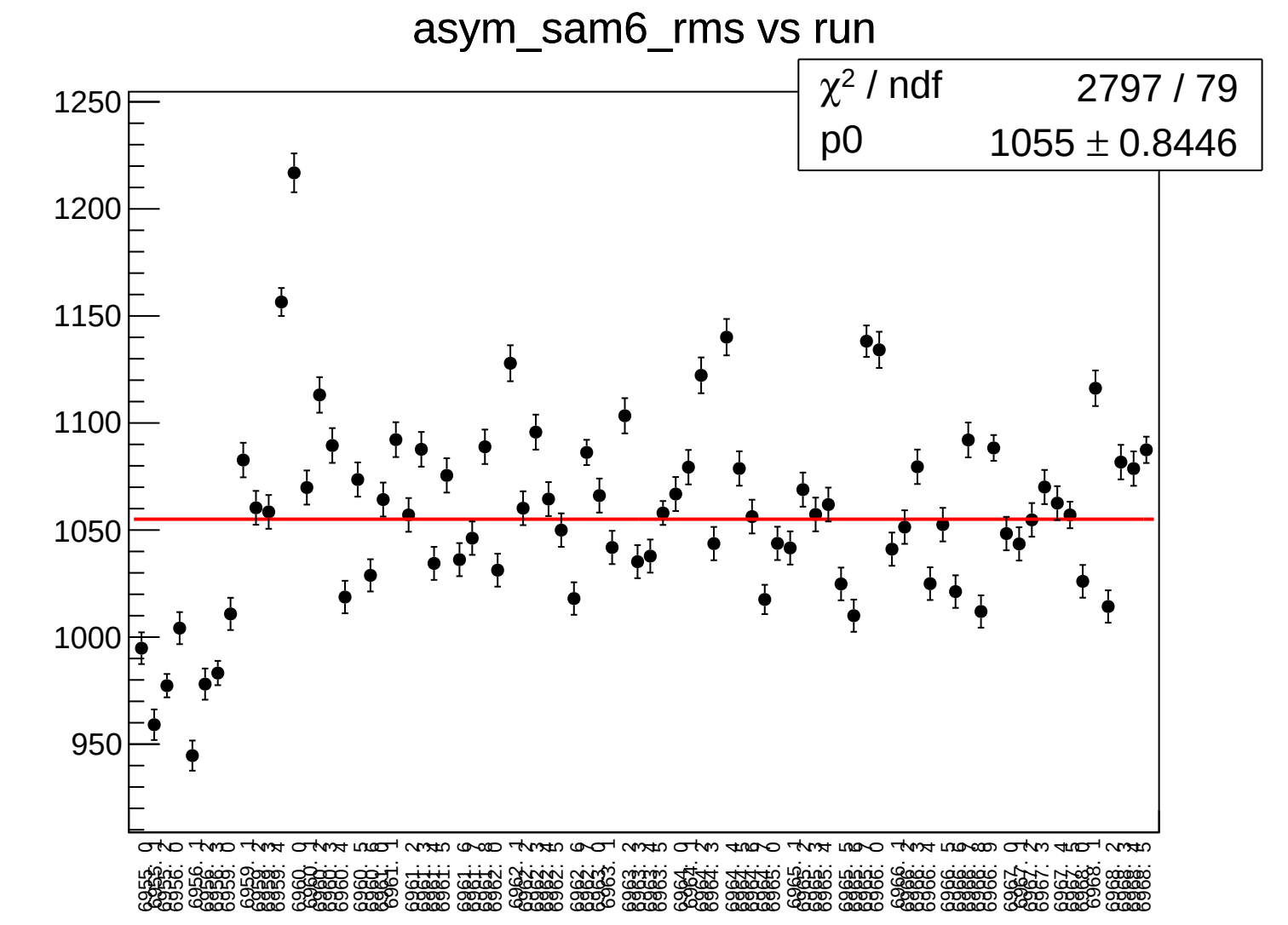

asym_sam5_mean vs run
χ^2 / ndf 77.84 / 79
p0 1111 ± 1115
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 80
Mean 1493
Std Dev 1459
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

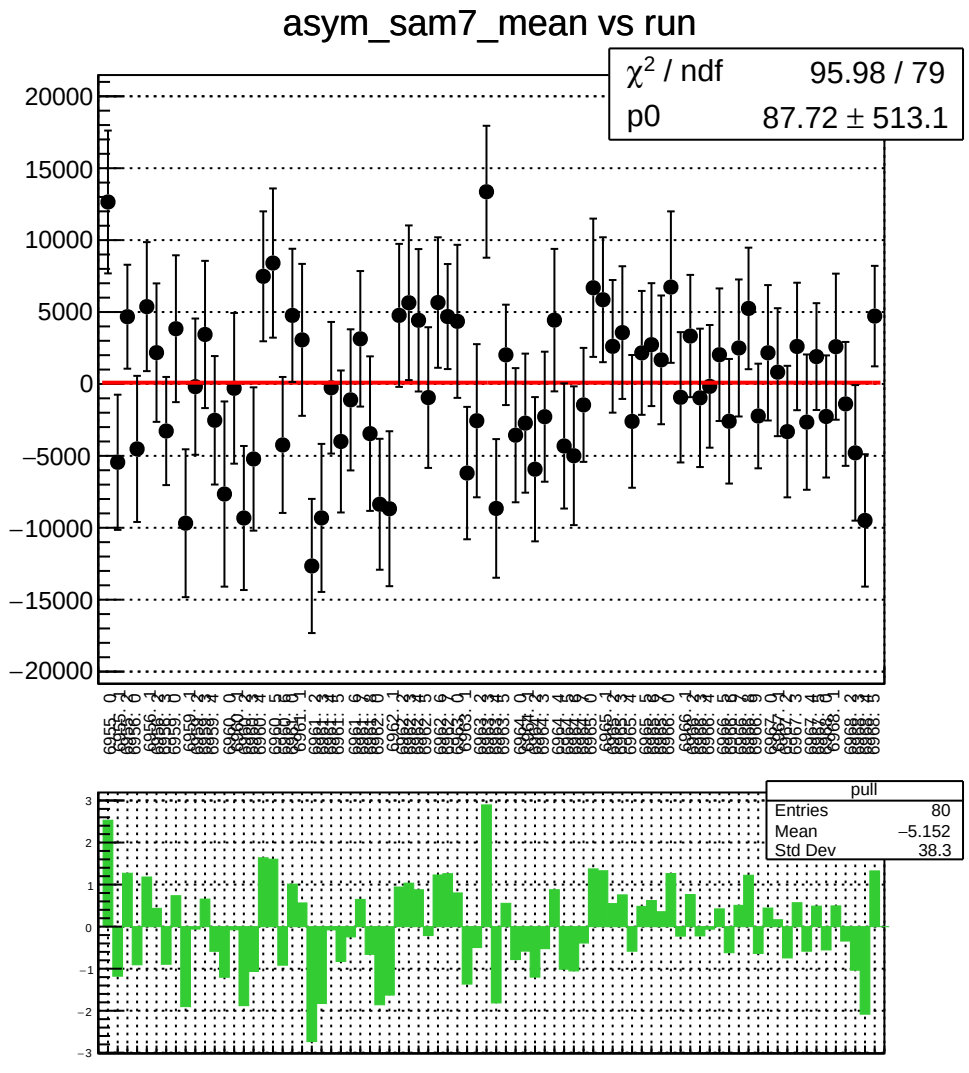

pull1D
Entries 80
Mean −0.002231
Std Dev 0.9864
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

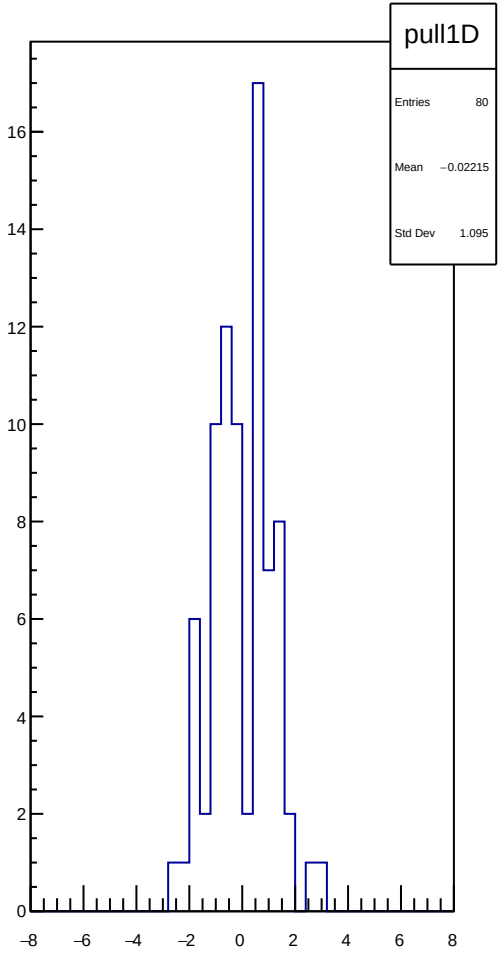

asym_sam5_rms vs run
χ² / ndf 1859 / 79
p0 984.8 ± 0.7881
1080
1060
1040
1020
1000
980
960
940
920
900
880

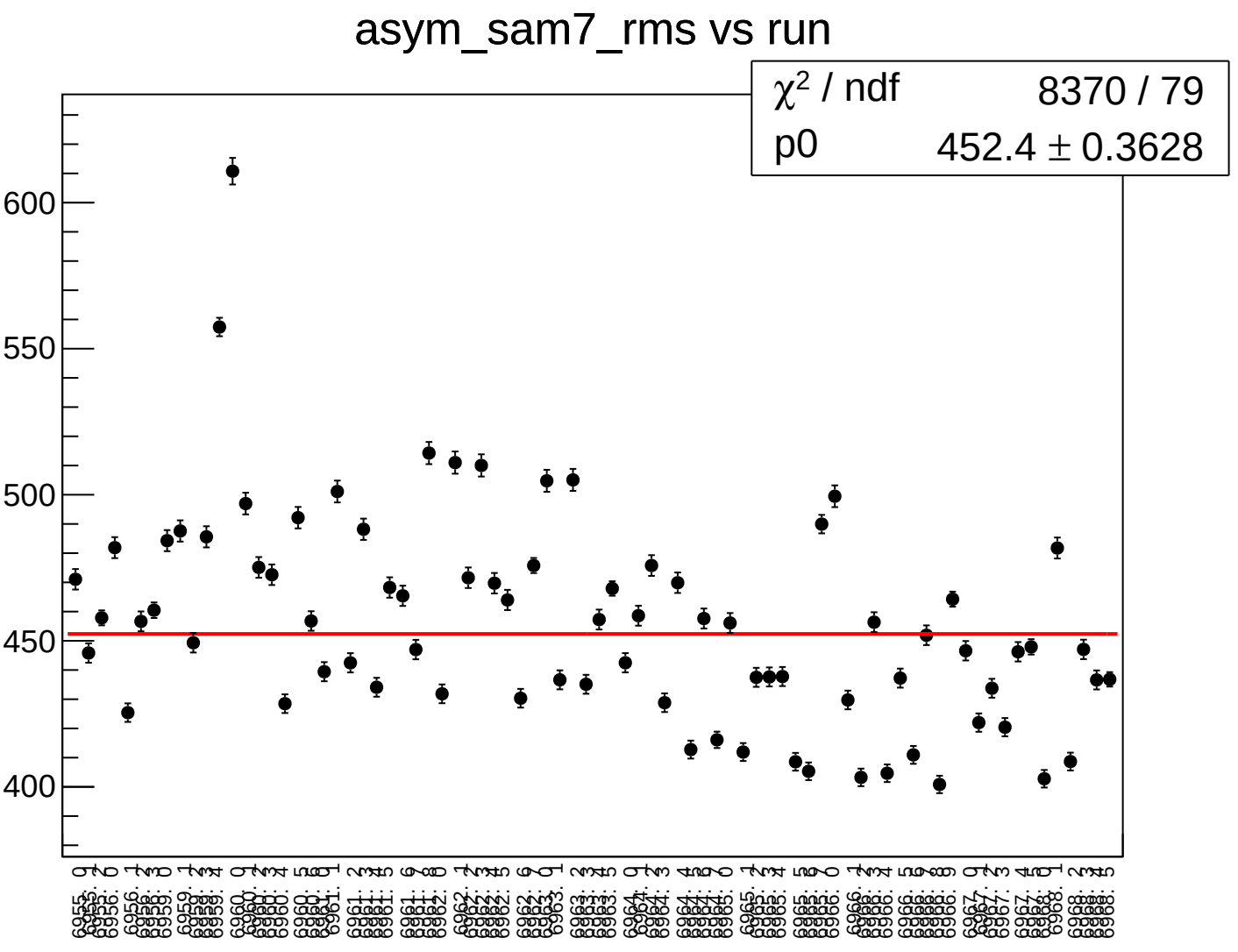

asym_sam6_mean vs run
χ² / ndf 94.37 / 79
p0 607.3 ± 1195
pull
Entries 80
Mean −198.4
Std Dev 233.4

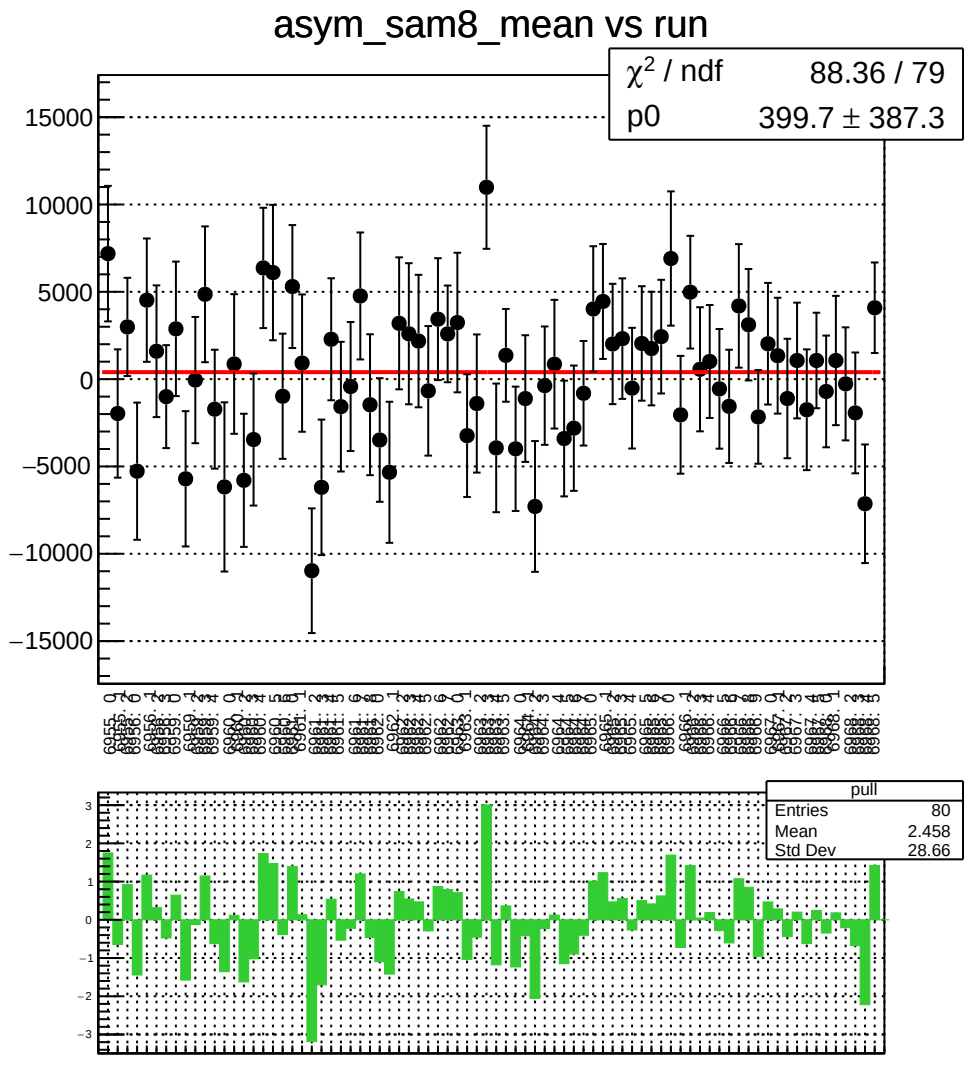

pull1D
Entries 80
Mean 0.01286
Std Dev 1.086

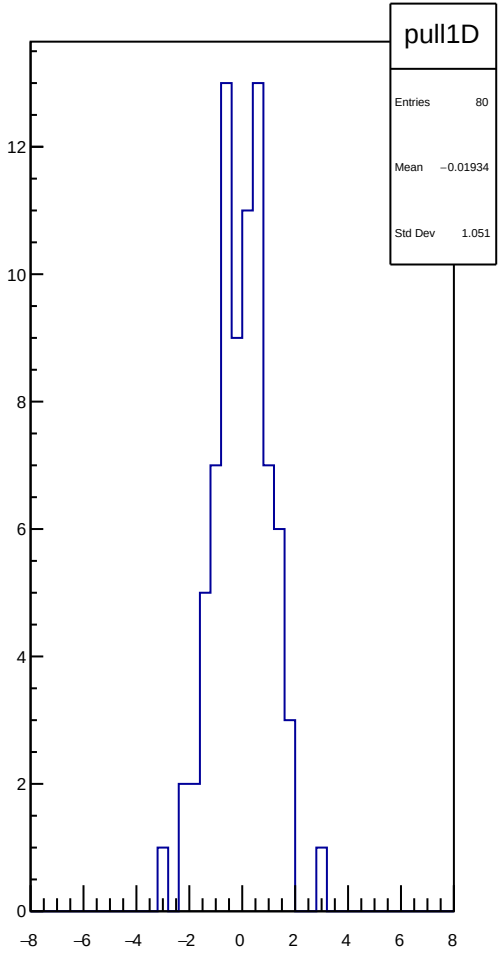

asym_sam6_rms vs run
χ² / ndf 2797 / 79
p0 1055 ± 0.8446
1250
1200
1150
1100
1050
1000
950

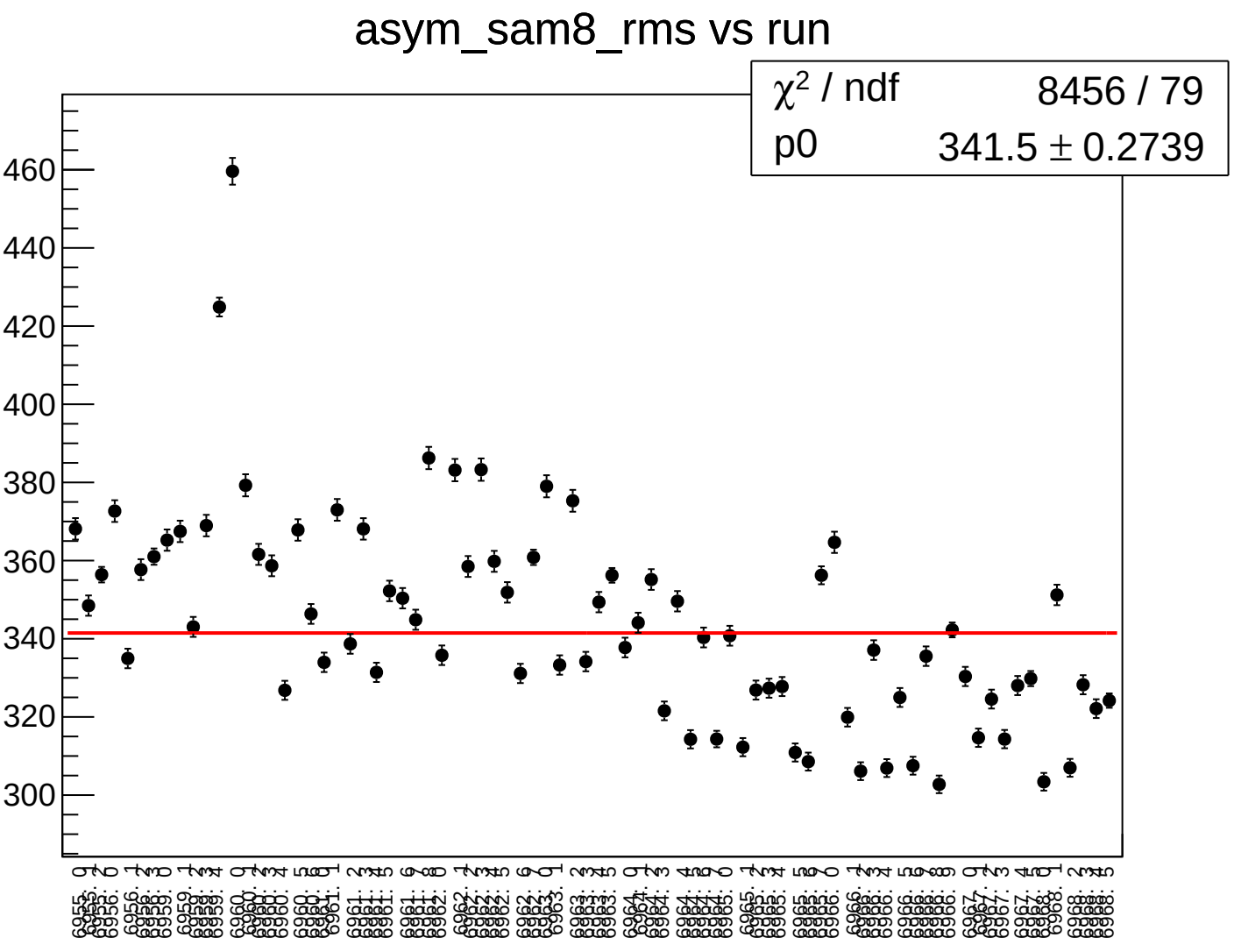

asym_sam7_mean vs run
χ² / ndf 95.98 / 79
p0 87.72 ± 513.1
pull
Entries 80
Mean −5.152
Std Dev 38.3

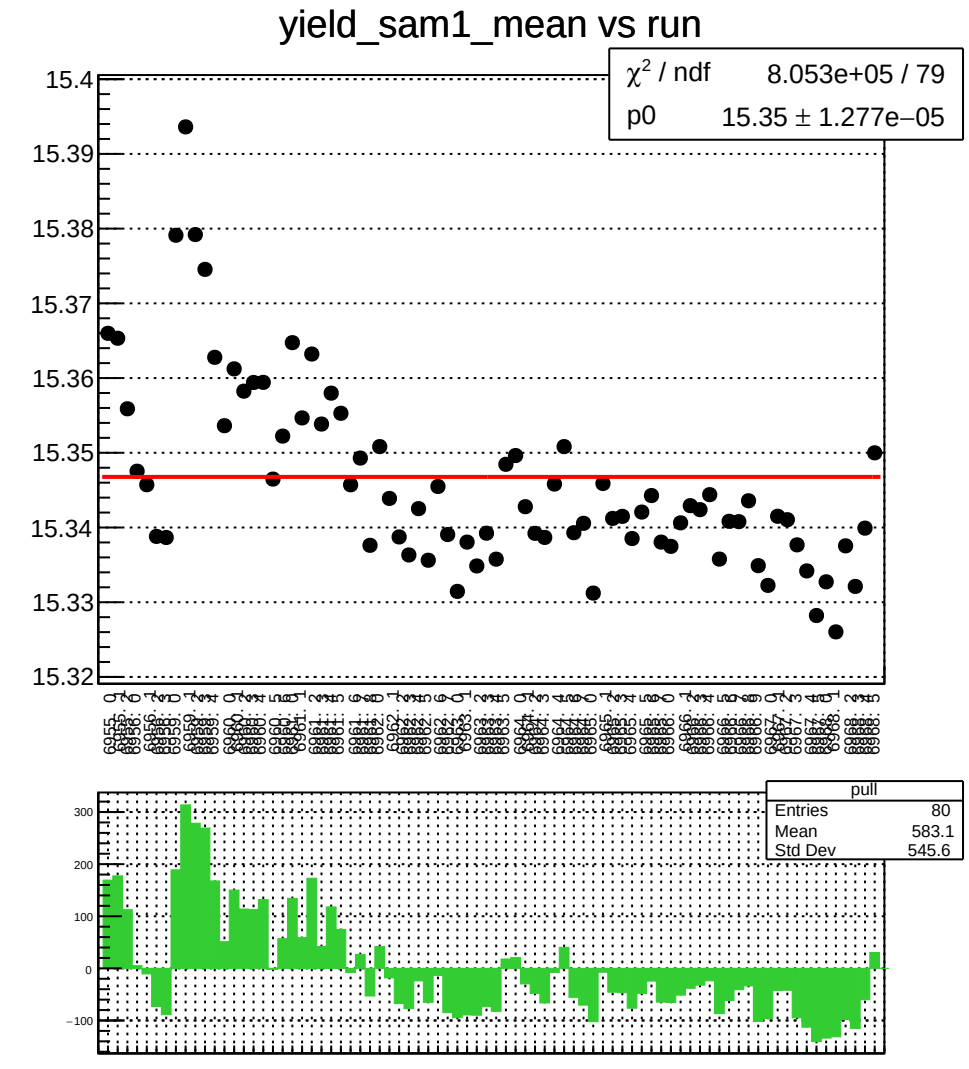

pull1D
Entries 80
Mean −0.02215
Std Dev 1.095

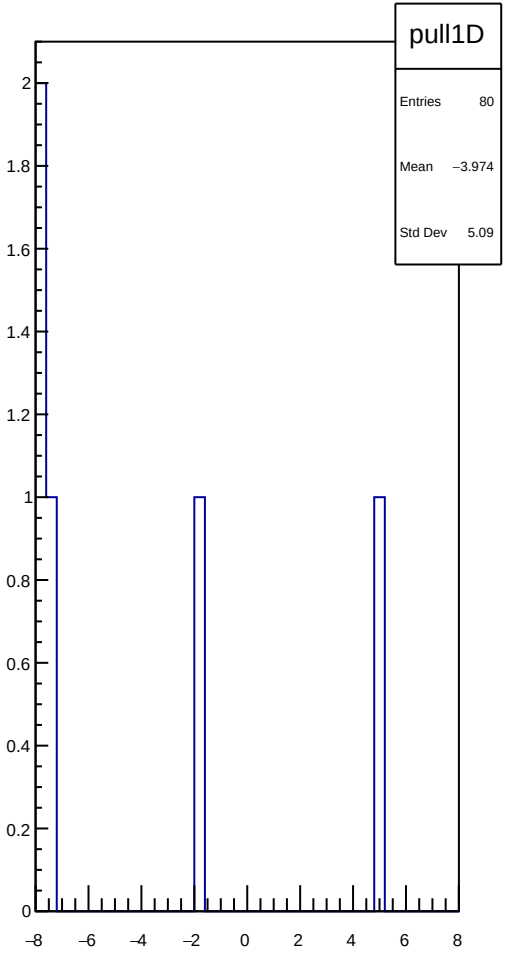

asym_sam7_rms vs run
χ^2 / ndf 8370 / 79
p0 452.4 ± 0.3628
600
550
500
450
400

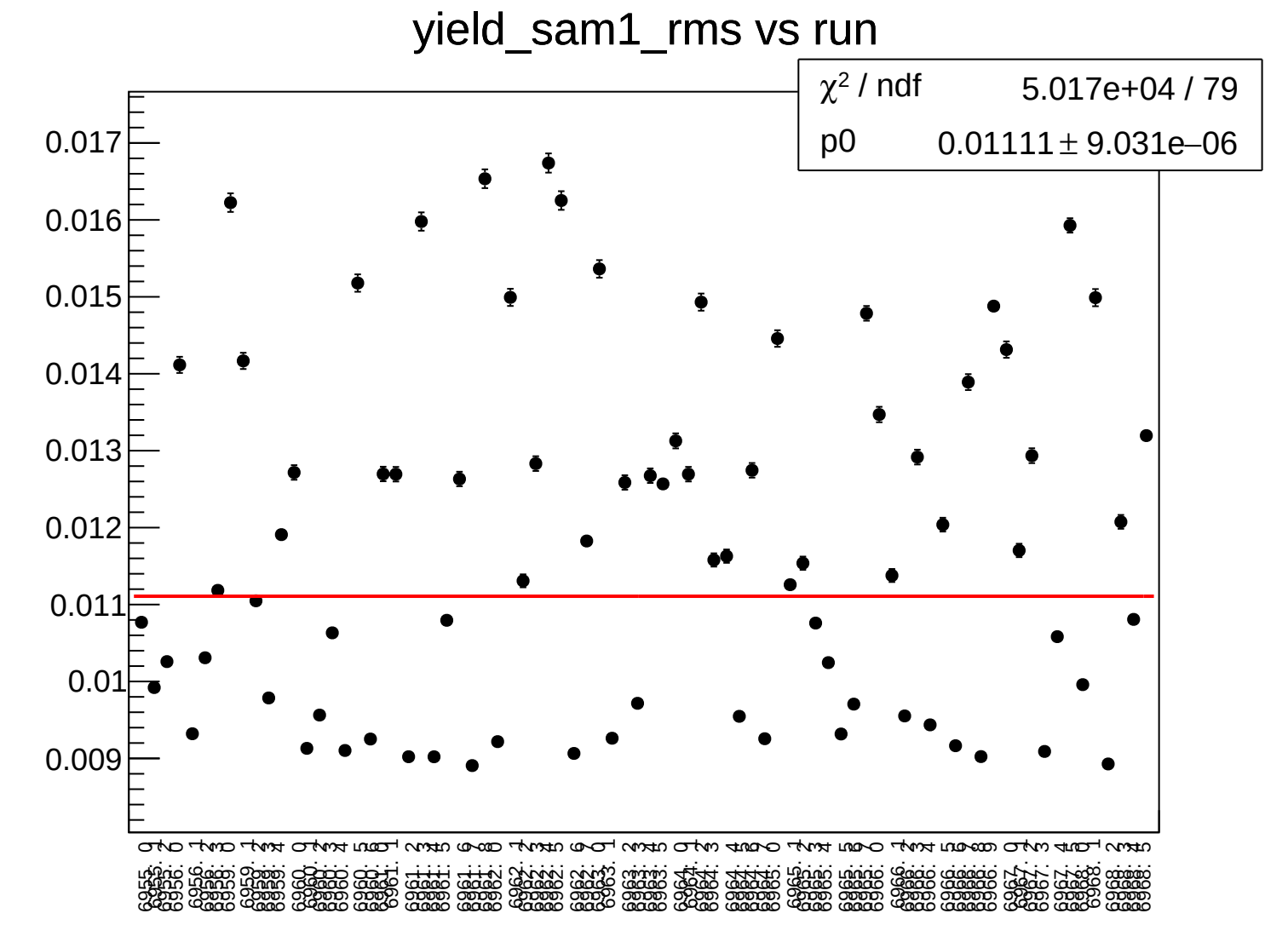

asym_sam8_mean vs run
χ² / ndf 88.36 / 79
p0 399.7 ± 387.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 80
Mean 2.458
Std Dev 28.66
3
2
1
0
−1
−2
−3

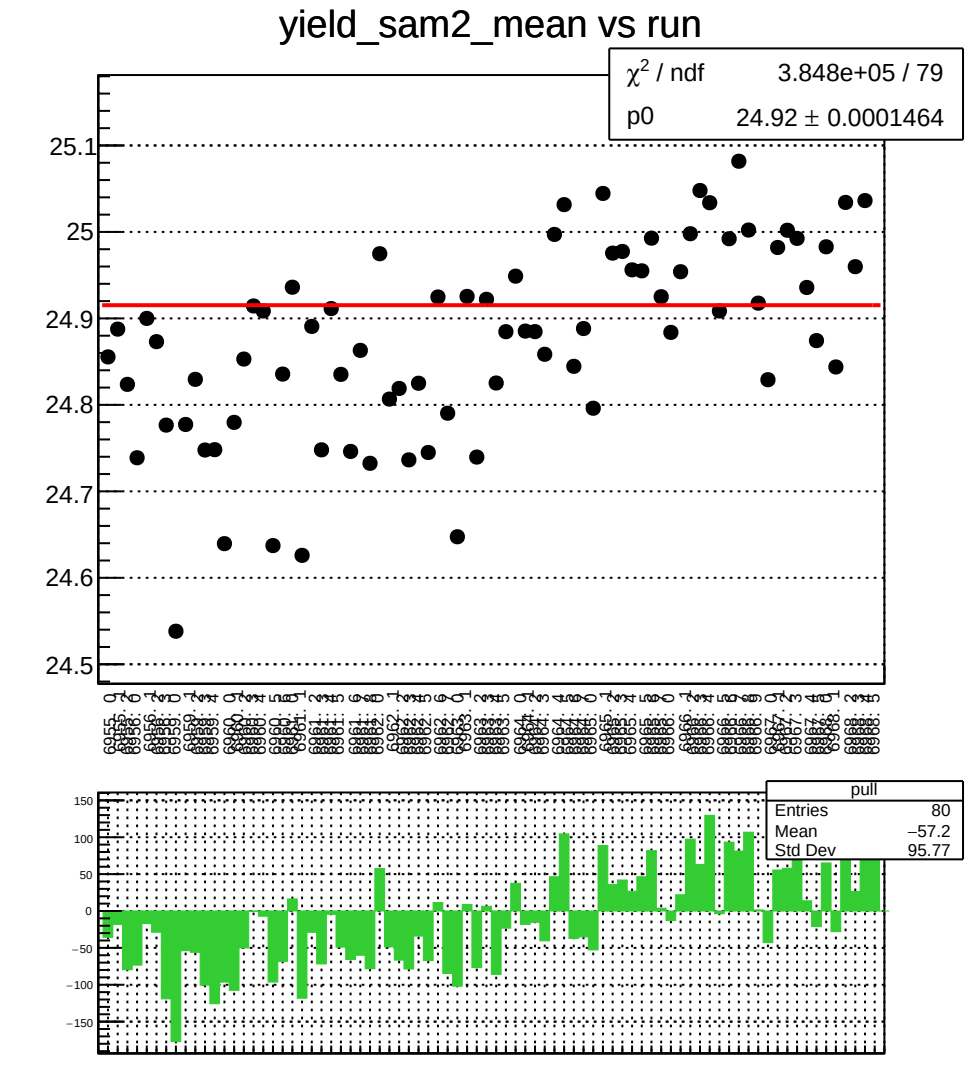

pull1D
Entries 80
Mean −0.01934
Std Dev 1.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

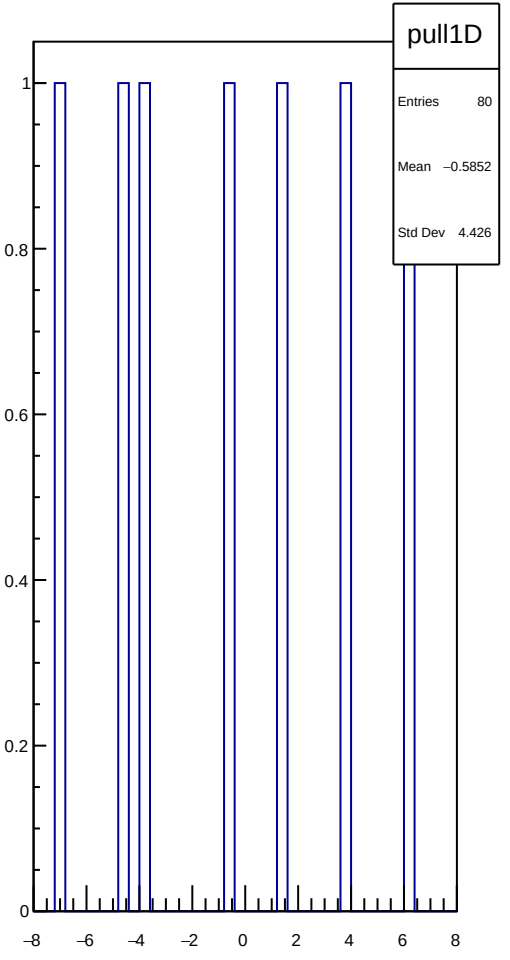

asym_sam8_rms vs run
χ² / ndf 8456 / 79
p0 341.5 ± 0.2739
460
440
420
400
380
360
340
320
300

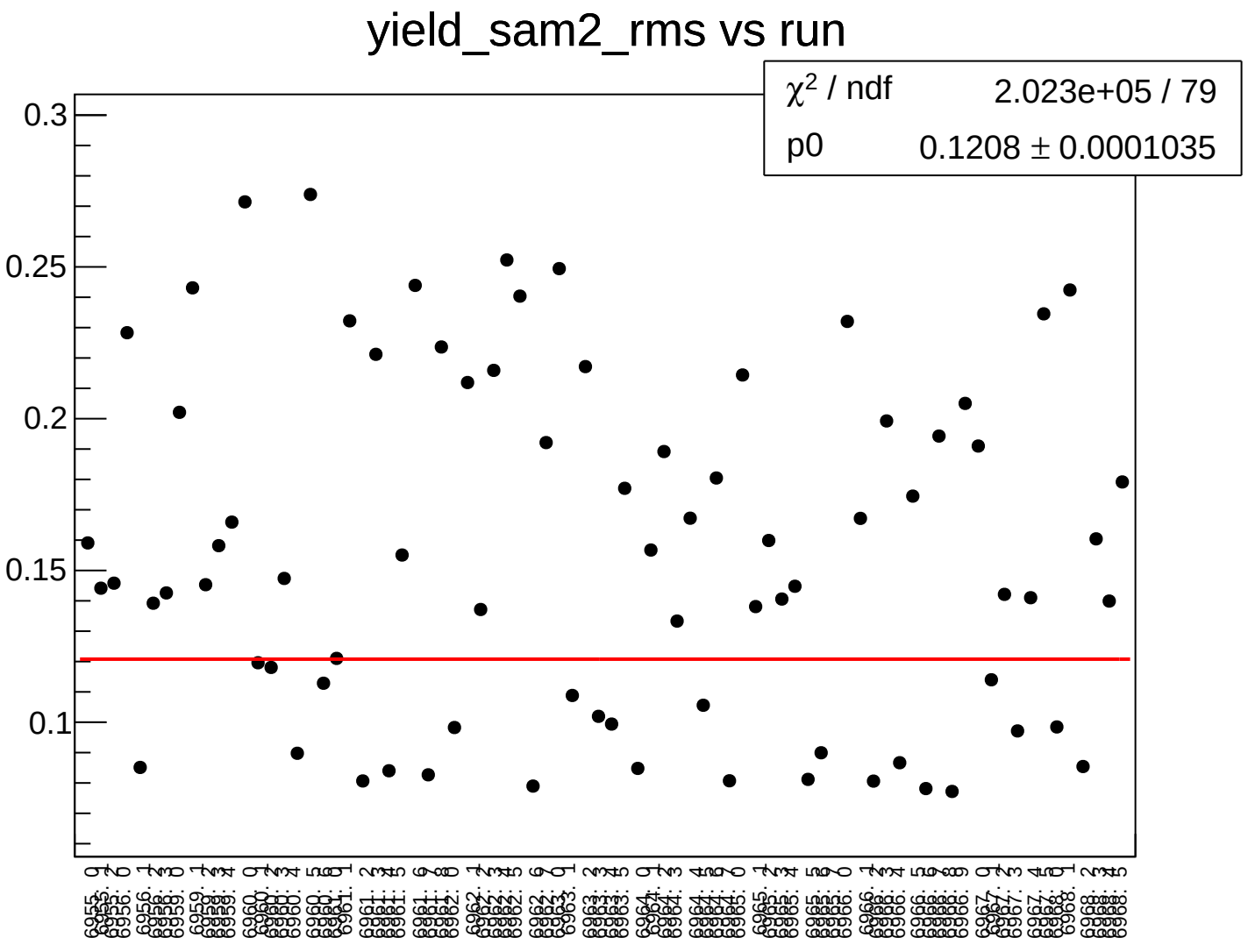

yield_sam1_mean vs run
χ² / ndf 8.053e+05 / 79
p0 15.35 ± 1.277e−05
15.4
15.39
15.38
15.37
15.36
15.35
15.34
15.33
15.32
pull
Entries 80
Mean 583.1
Std Dev 545.6
300
200
100
0
−100

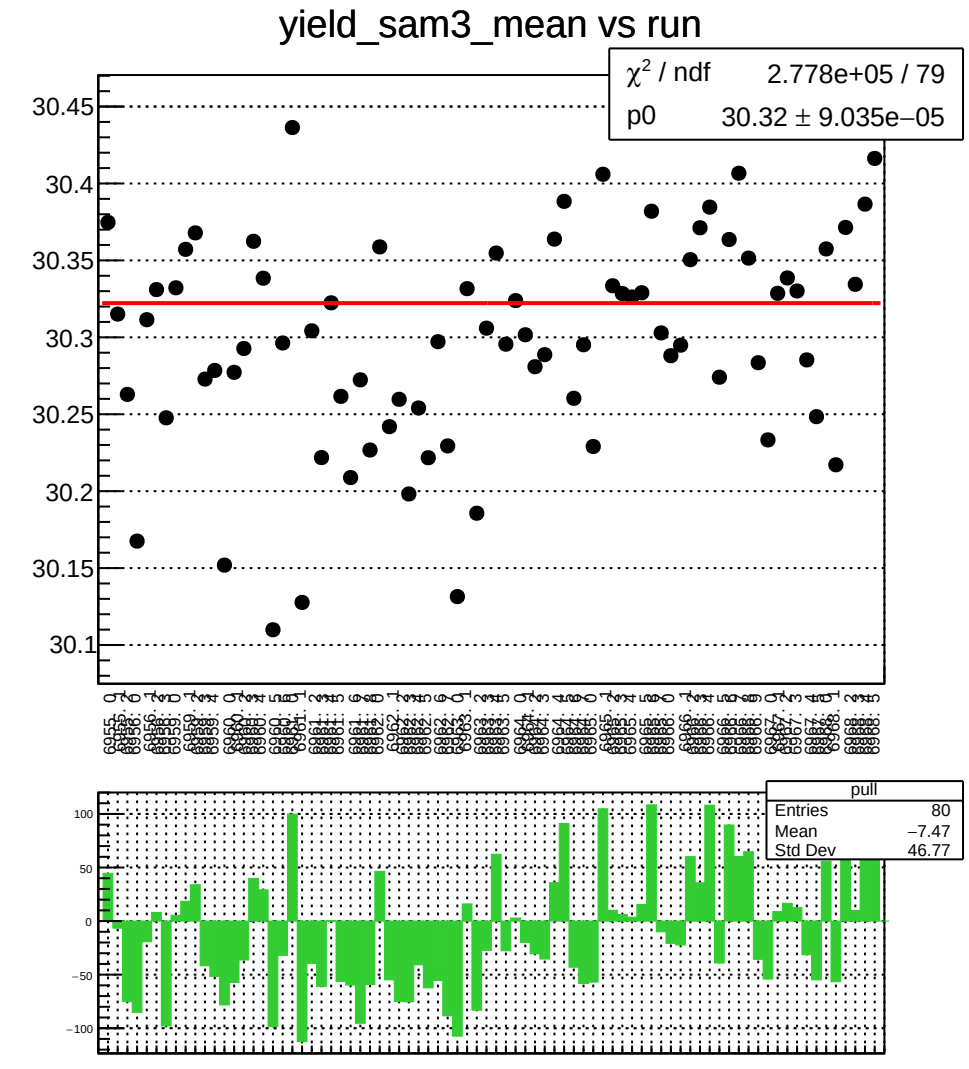

pull1D
Entries 80
Mean −3.974
Std Dev 5.09
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

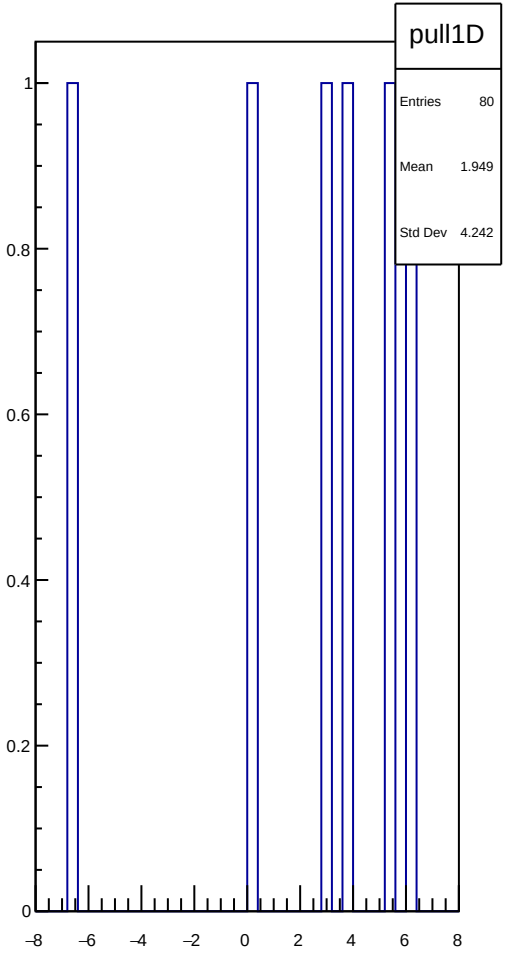

yield_sam1_rms vs run
χ² / ndf 5.017e+04 / 79
p0 0.01111 ± 9.031e–06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

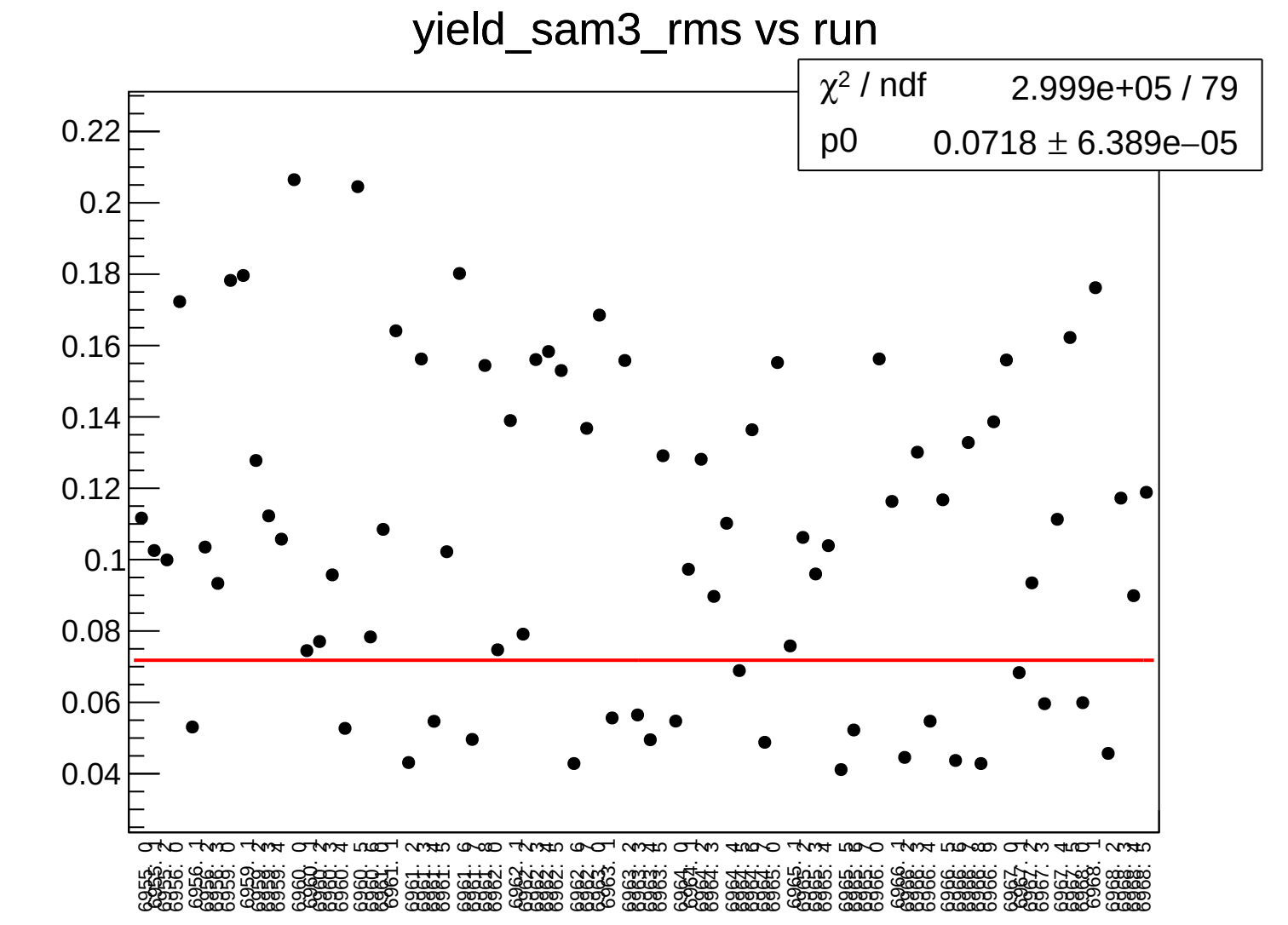

yield_sam2_mean vs run
χ² / ndf 3.848e+05 / 79
p0 24.92 ± 0.0001464
25.1
25
24.9
24.8
24.7
24.6
24.5
pull
Entries 80
Mean −57.2
Std Dev 95.77
150
100
50
0
−50
−100
−150

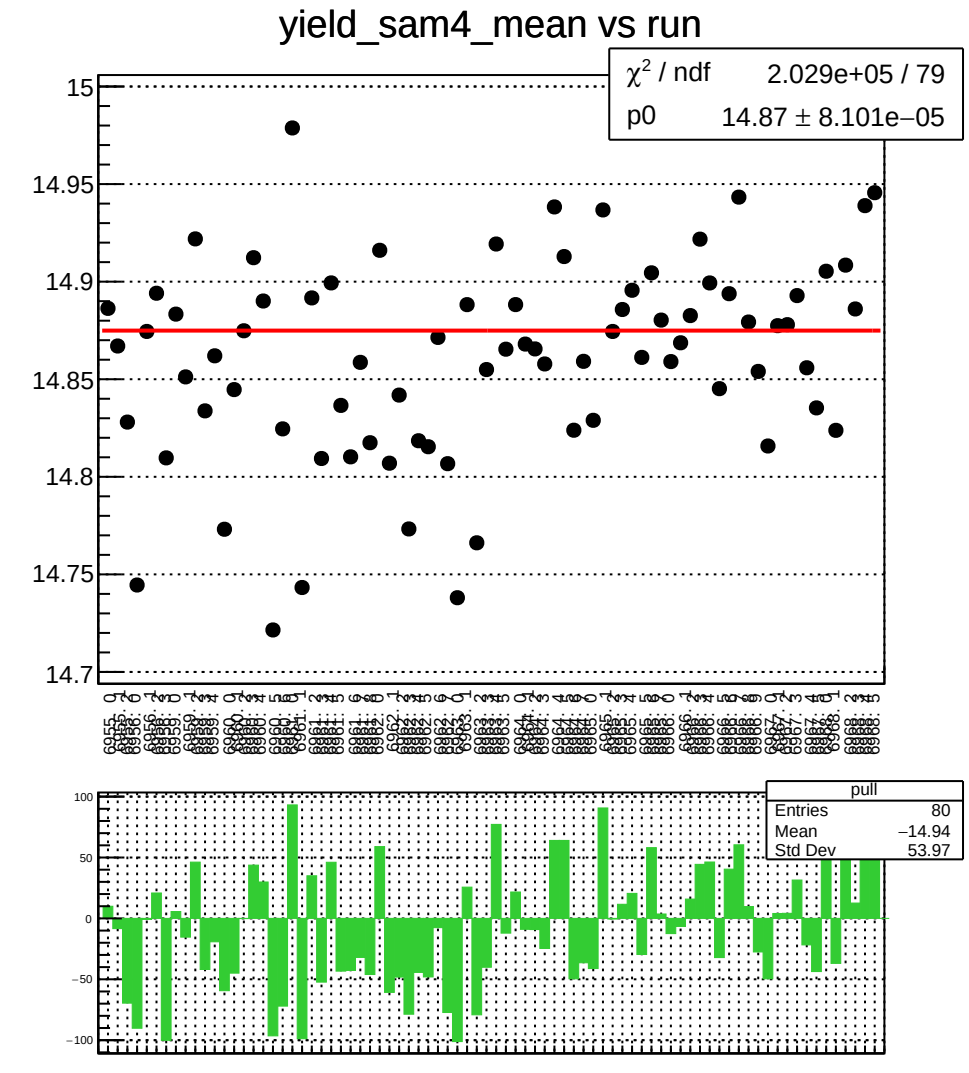

pull1D
Entries 80
Mean −0.5852
Std Dev 4.426
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

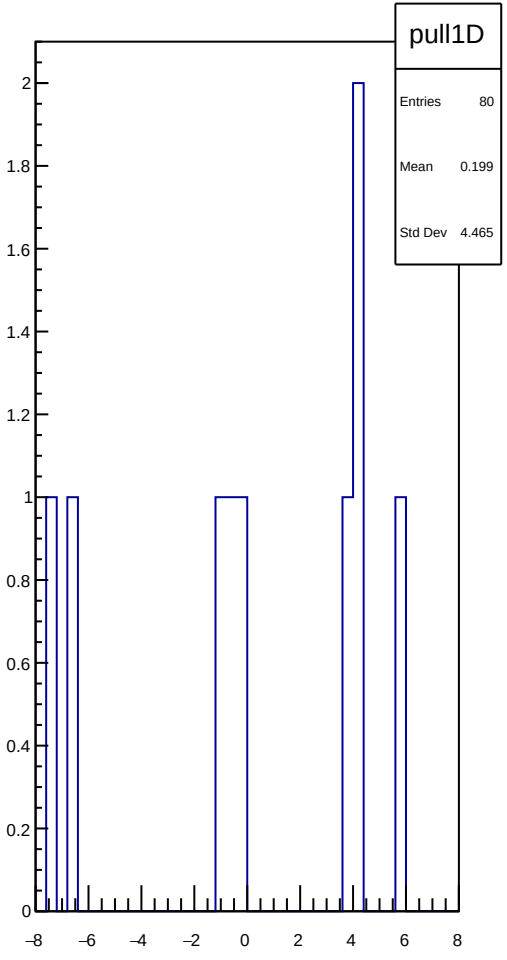

yield_sam2_rms vs run
χ² / ndf 2.023e+05 / 79
p0 0.1208 ± 0.0001035
0.3
0.25
0.2
0.15
0.1


yield_sam3_mean vs run
χ² / ndf 2.778e+05 / 79
p0 30.32 ± 9.035e−05
30.45
30.4
30.35
30.3
30.25
30.2
30.15
30.1
pull
Entries 80
Mean −7.47
Std Dev 46.77
100
50
0
−50
−100


pull1D
Entries 80
Mean 1.949
Std Dev 4.242
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 2.999e+05 / 79
p0 0.0718 ± 6.389e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04


yield_sam4_mean vs run
χ² / ndf 2.029e+05 / 79
p0 14.87 ± 8.101e−05
15
14.95
14.9
14.85
14.8
14.75
14.7
pull
Entries 80
Mean −14.94
Std Dev 53.97
100
50
0
−50
−100


pull1D
Entries 80
Mean 0.199
Std Dev 4.465
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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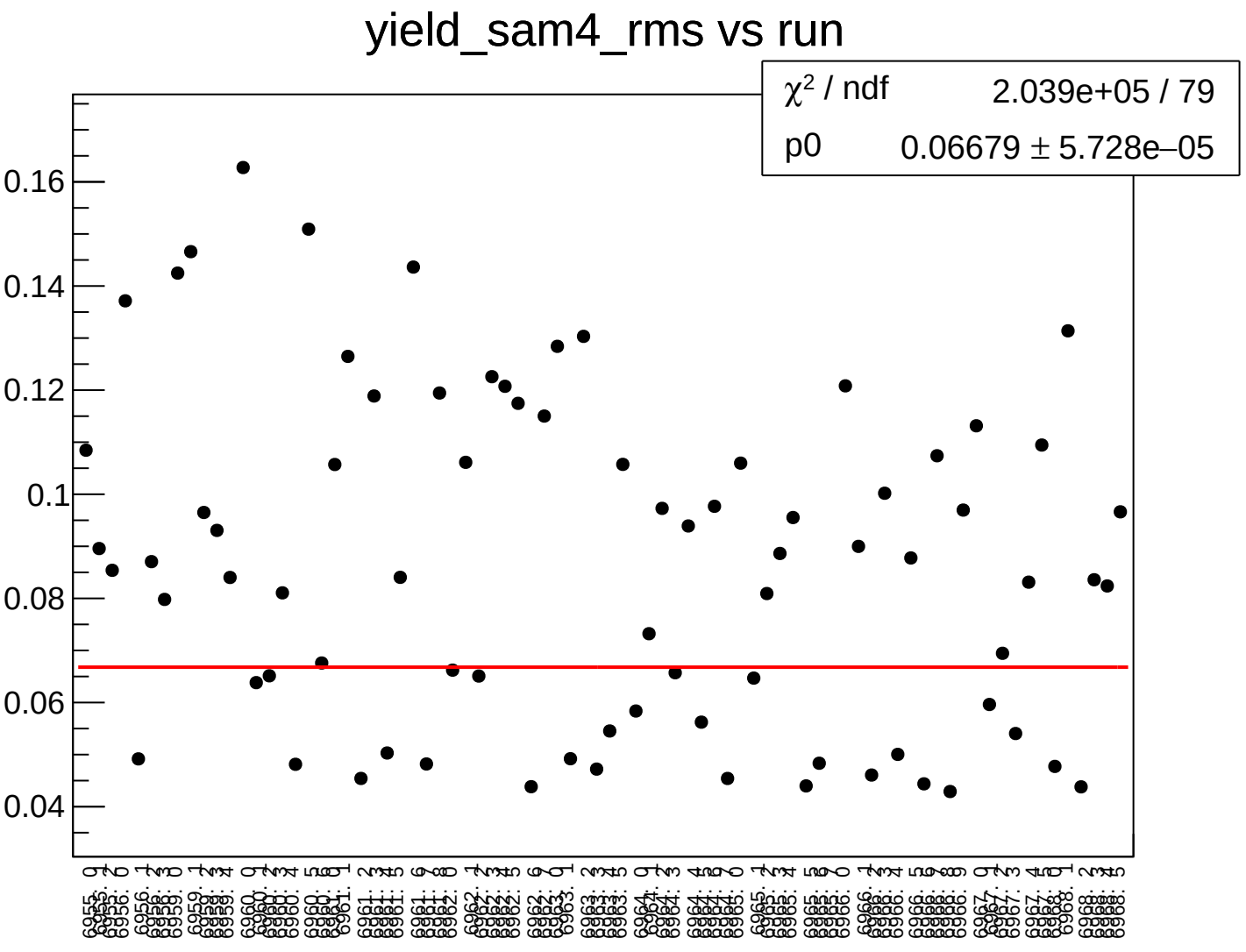
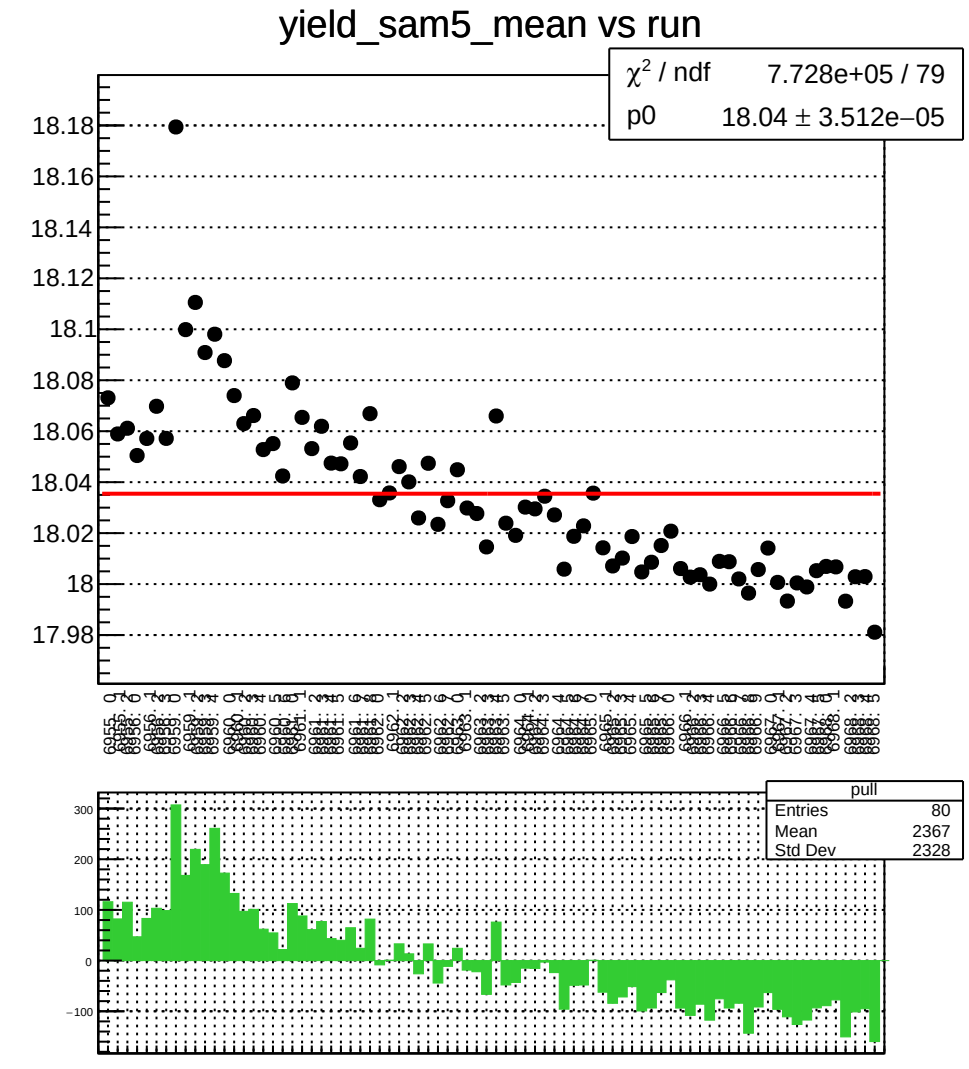
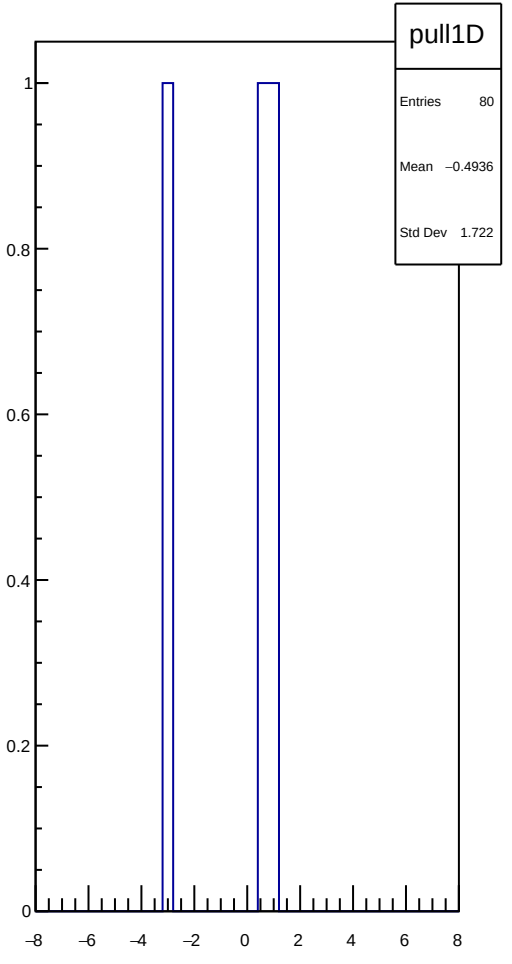
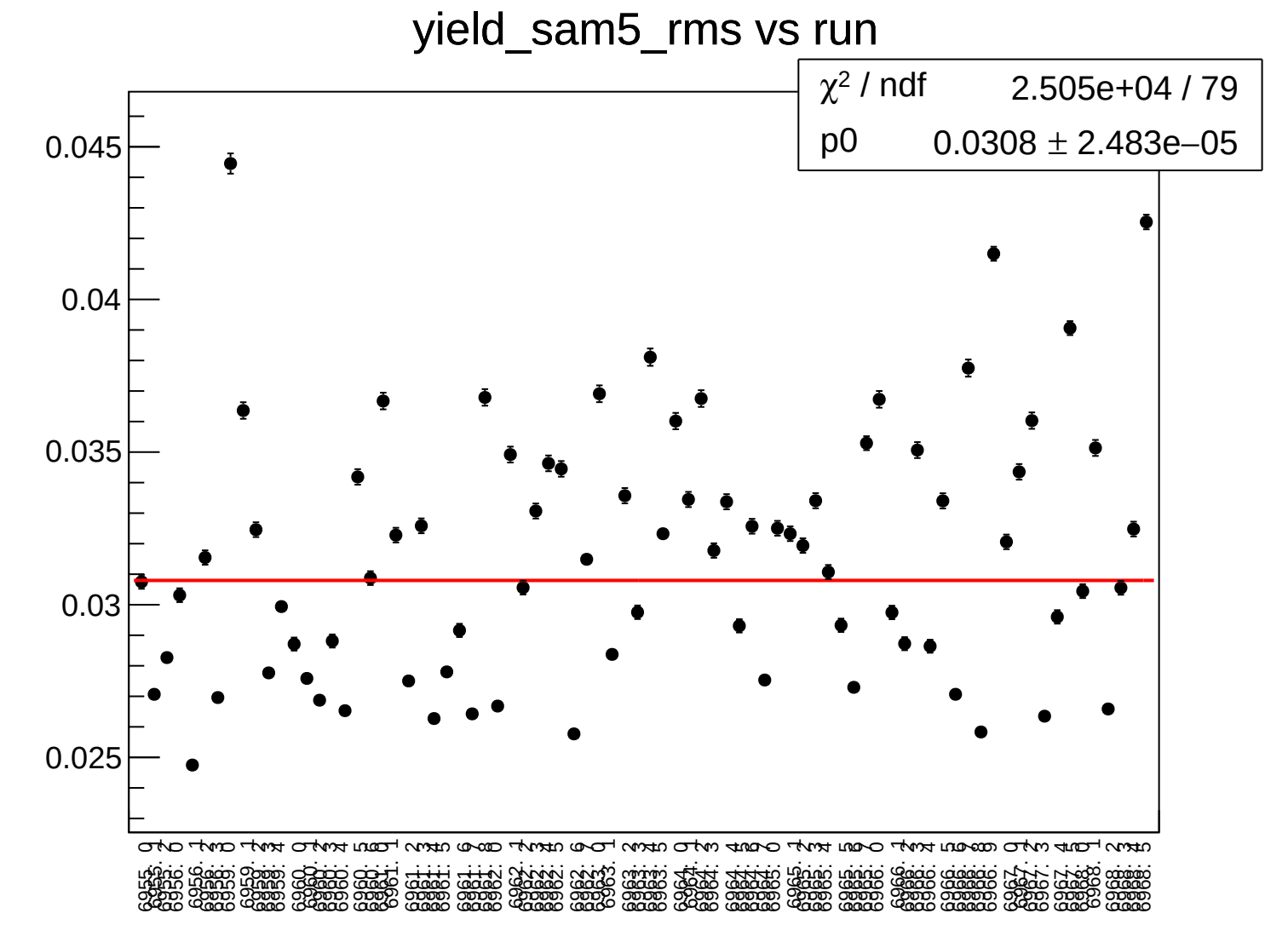
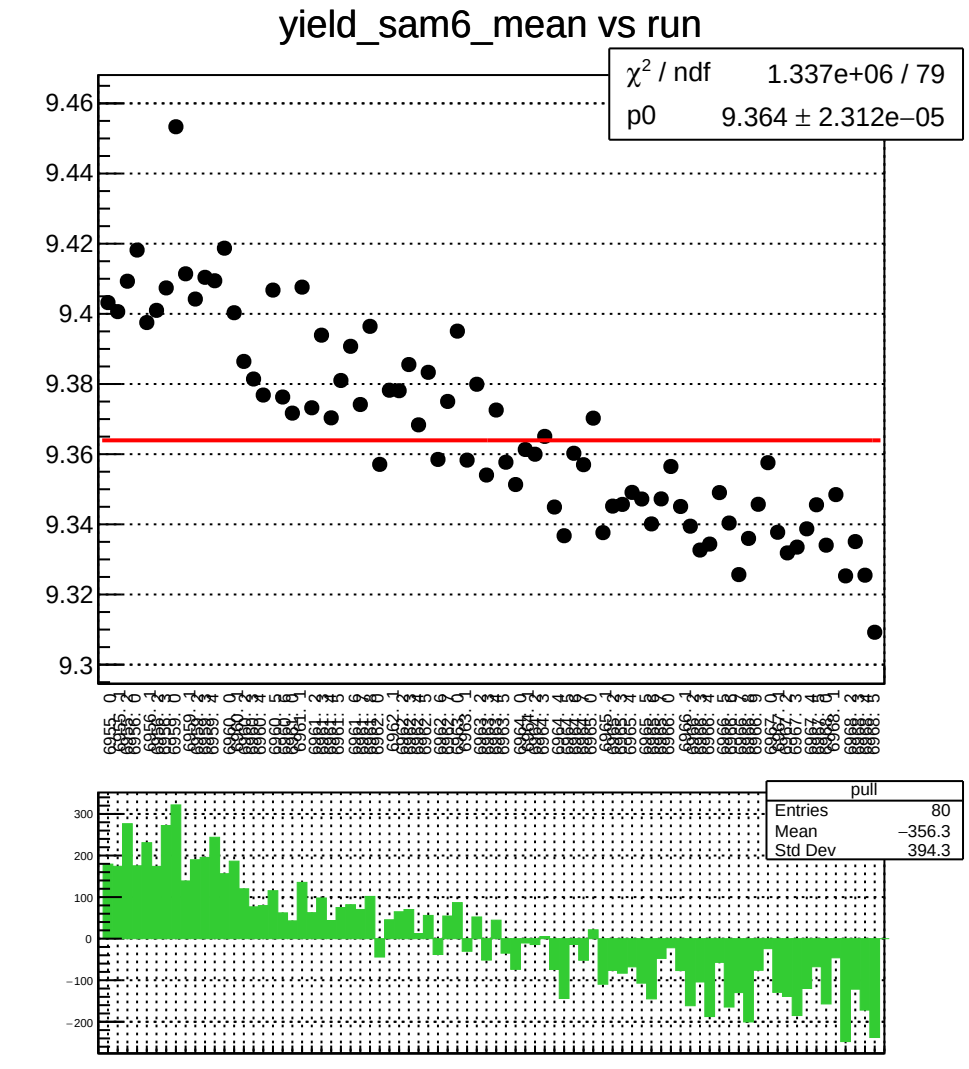
0
2
4
6
8

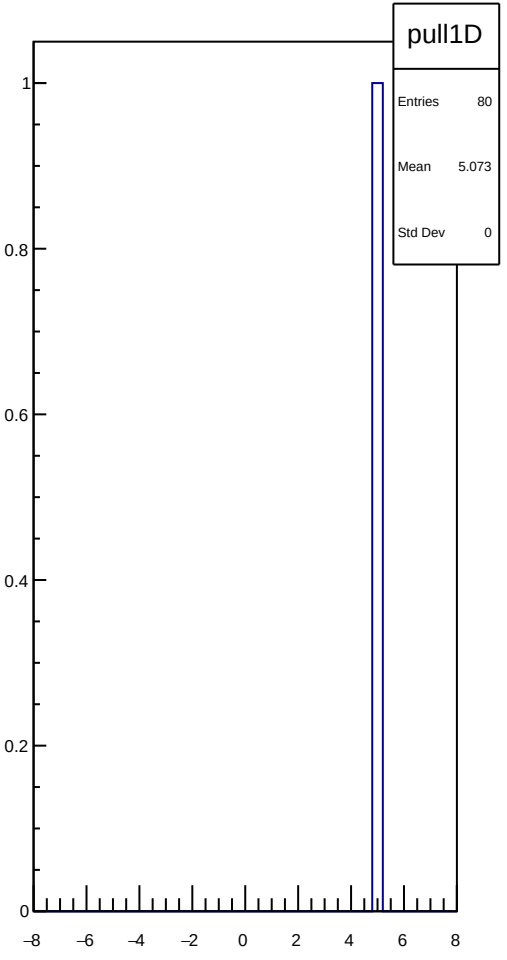

yield_sam4_rms vs run
χ² / ndf 2.039e+05 / 79
p0 0.06679 ± 5.728e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

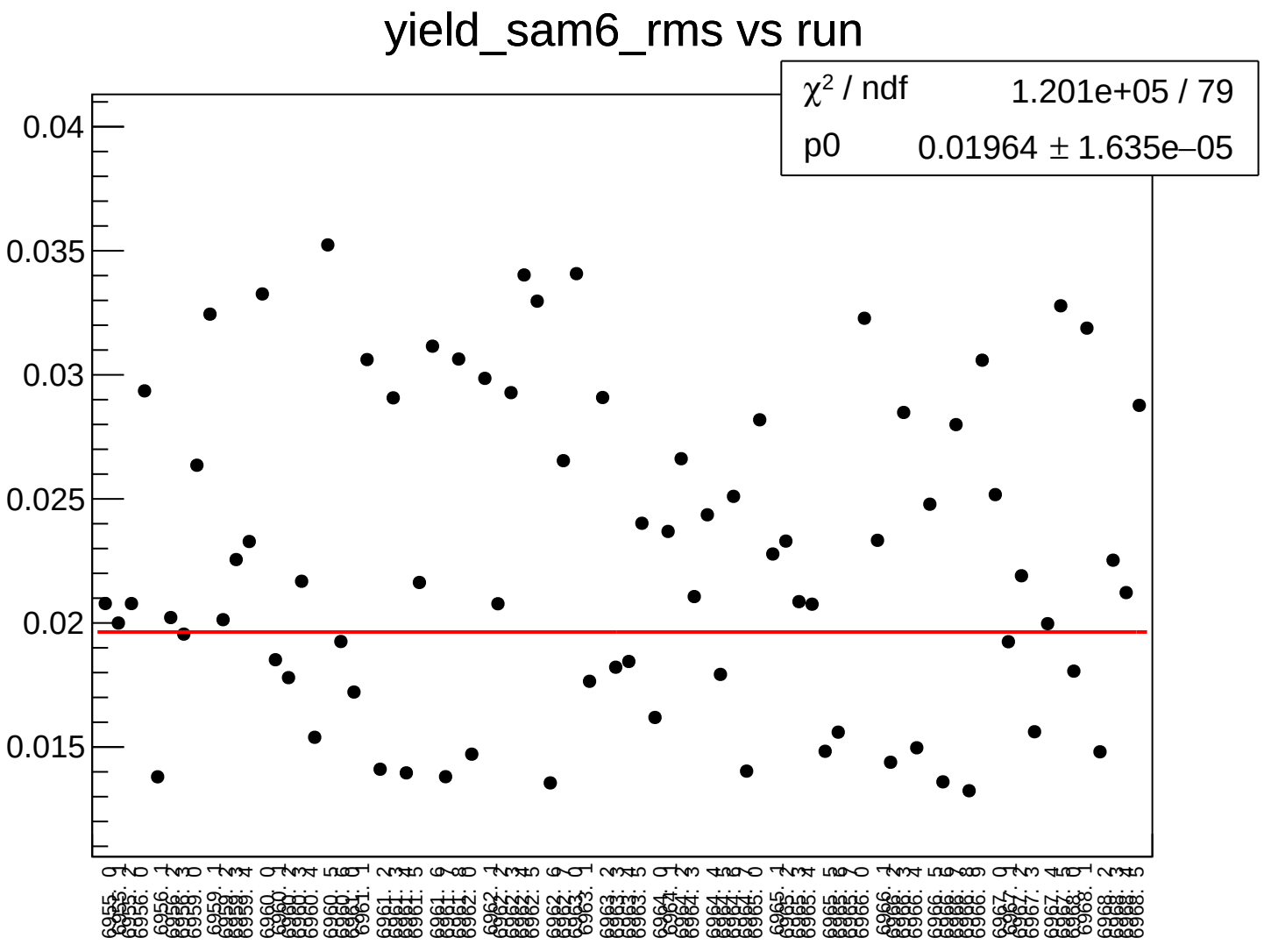

yield_sam5_mean vs run
χ² / ndf 7.728e+05 / 79
p0 18.04 ± 3.512e−05
18.18
18.16
18.14
18.12
18.1
18.08
18.06
18.04
18.02
18
17.98
pull
Entries 80
Mean 2367
Std Dev 2328
300
200
100
0
−100

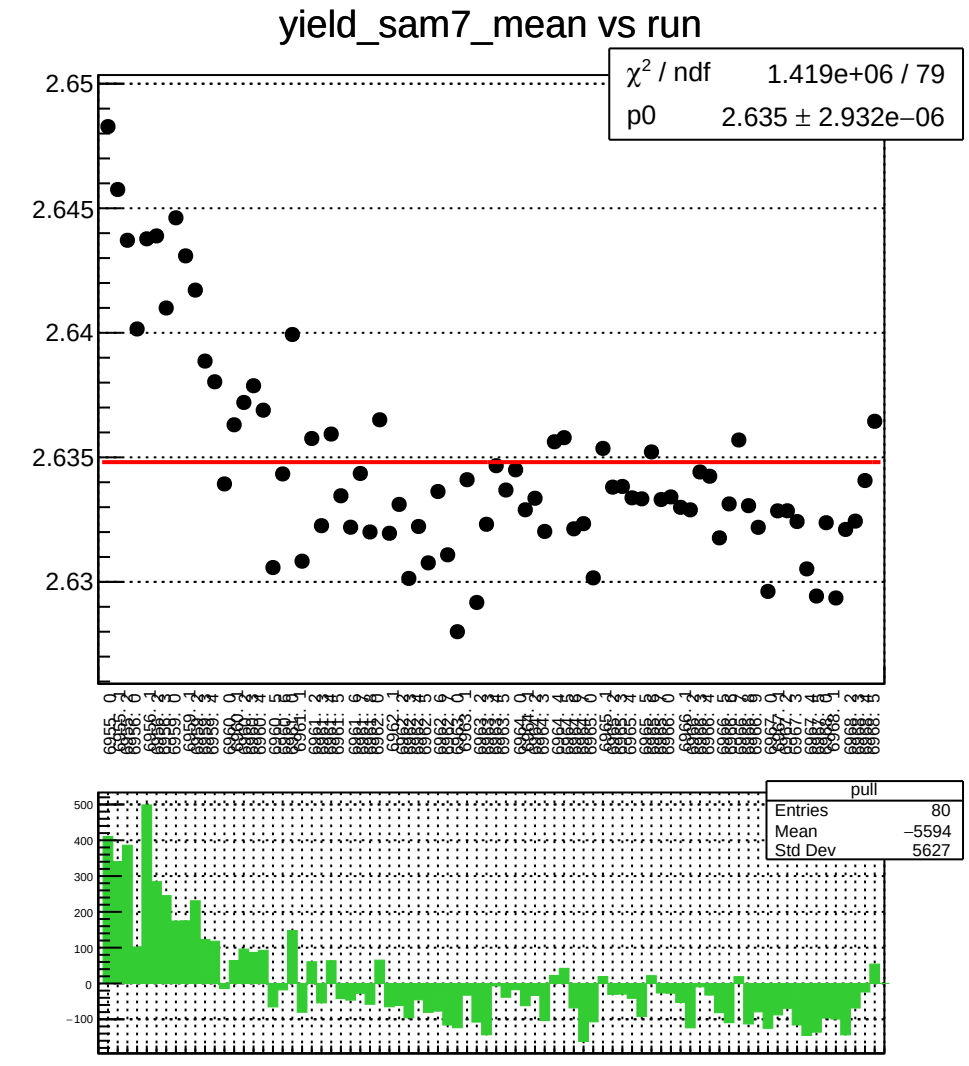

pull1D
Entries 80
Mean −0.4936
Std Dev 1.722
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

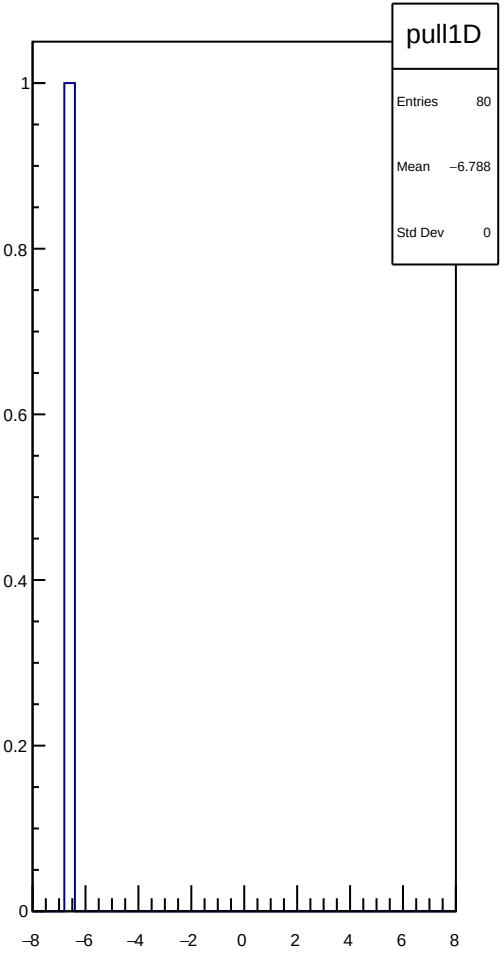

yield_sam5_rms vs run
χ² / ndf 2.505e+04 / 79
p0 0.0308 ± 2.483e−05
0.045
0.04
0.035
0.03
0.025

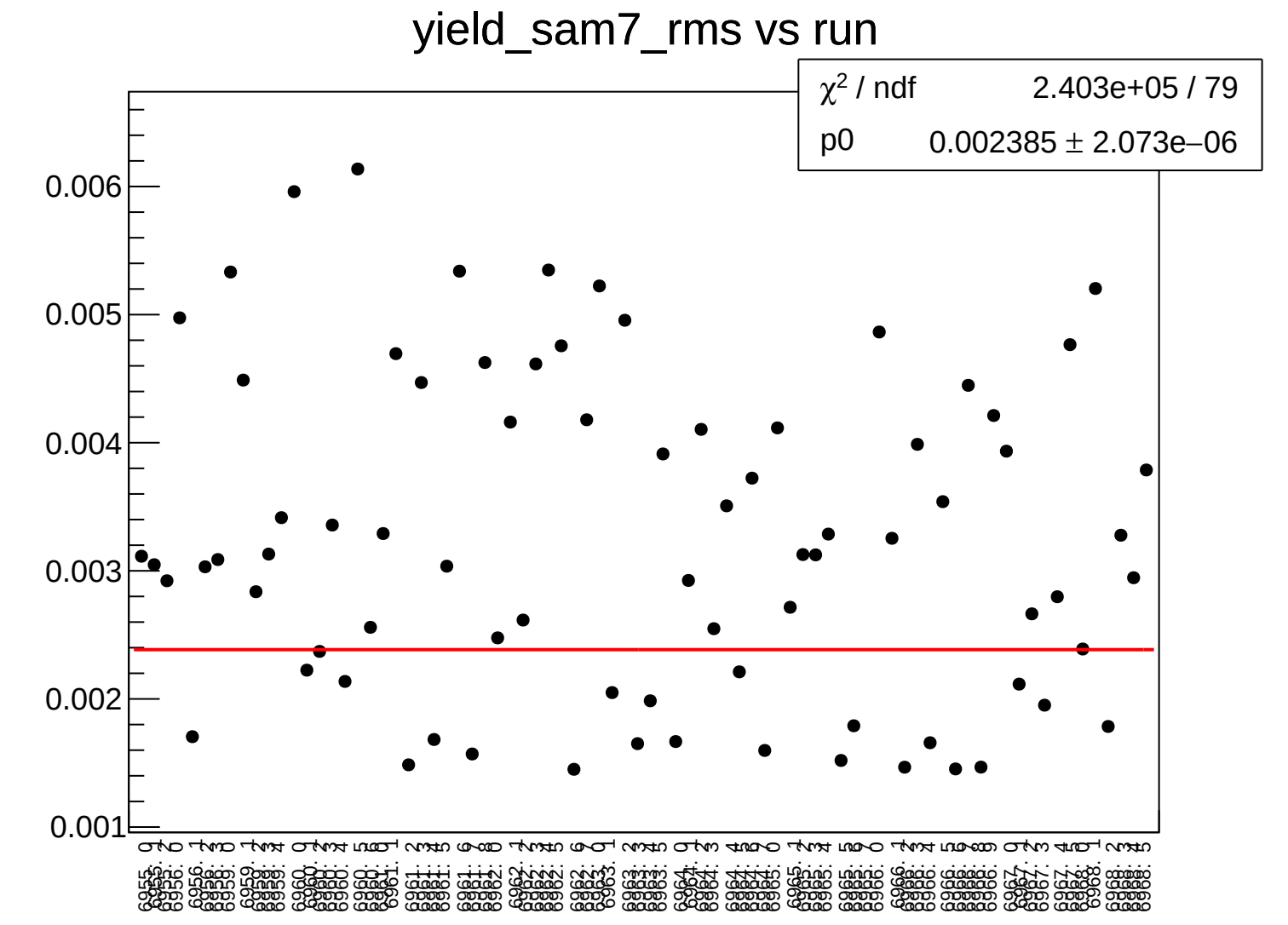

yield_sam6_mean vs run
χ² / ndf 1.337e+06 / 79
p0 9.364 ± 2.312e−05
9.46
9.44
9.42
9.4
9.38
9.36
9.34
9.32
9.3
pull
Entries 80
Mean −356.3
Std Dev 394.3
300
200
100
0
−100
−200

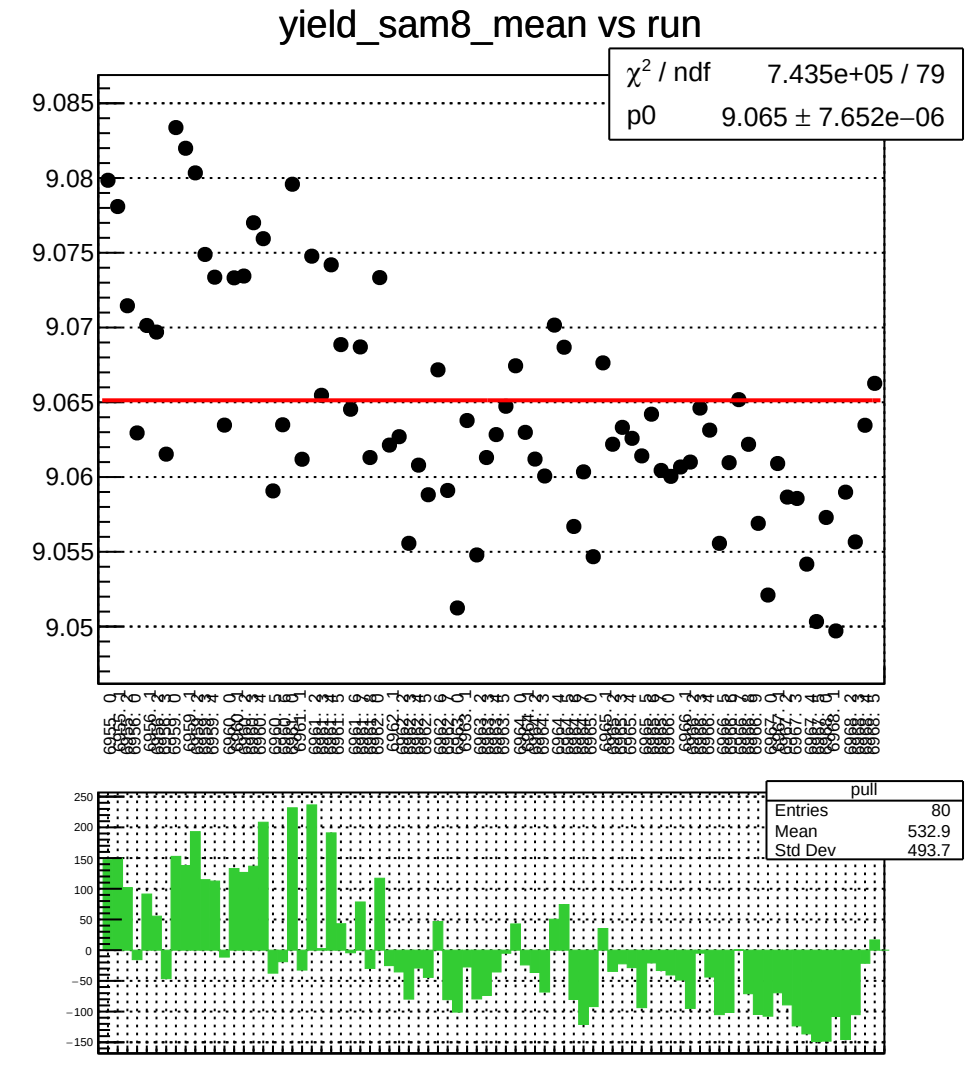

pull1D
Entries 80
Mean 5.073
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

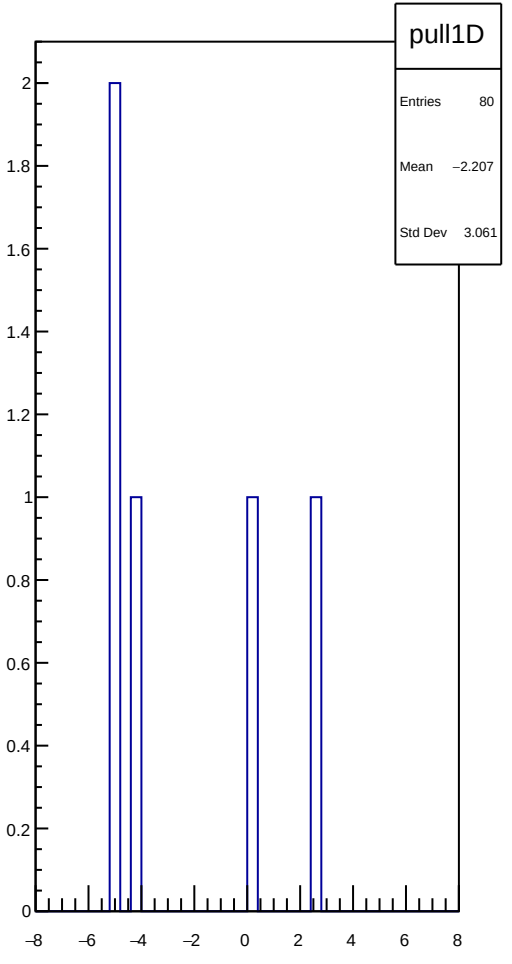

yield_sam6_rms vs run
χ² / ndf 1.201e+05 / 79
p0 0.01964 ± 1.635e−05
0.04
0.035
0.03
0.025
0.02
0.015

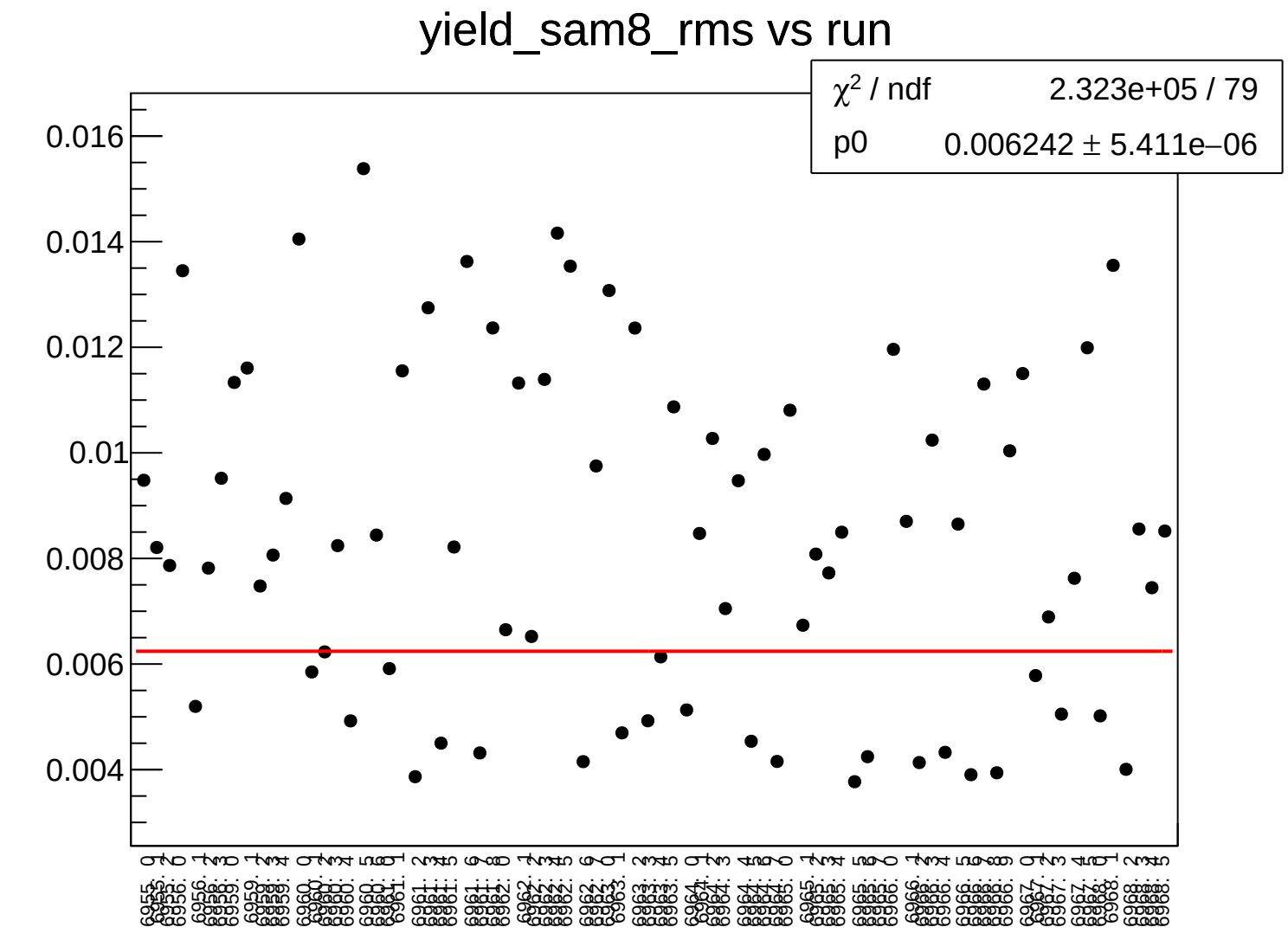

yield_sam7_mean vs run
χ² / ndf 1.419e+06 / 79
p0 2.635 ± 2.932e−06
2.65
2.645
2.64
2.635
2.63
pull
Entries 80
Mean −5594
Std Dev 5627
500
400
300
200
100
0
−100

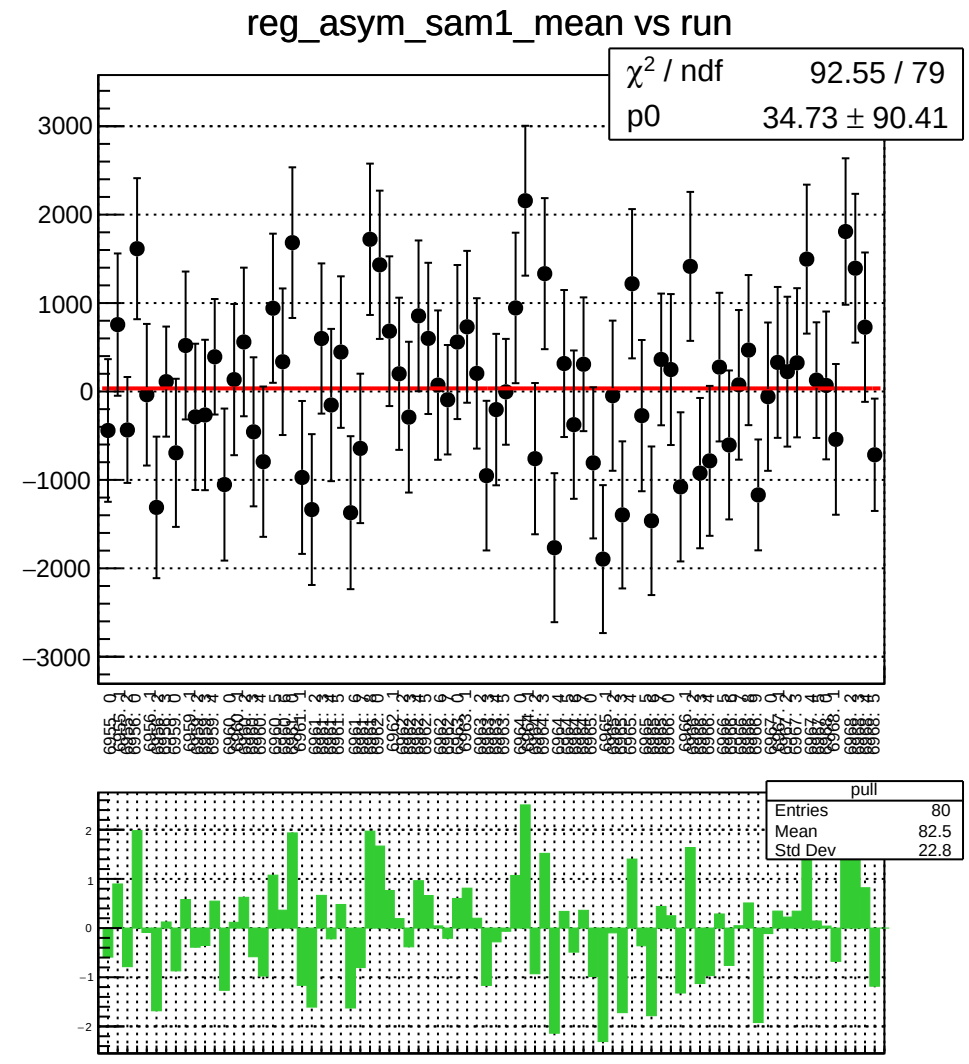

pull1D
Entries 80
Mean −6.788
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

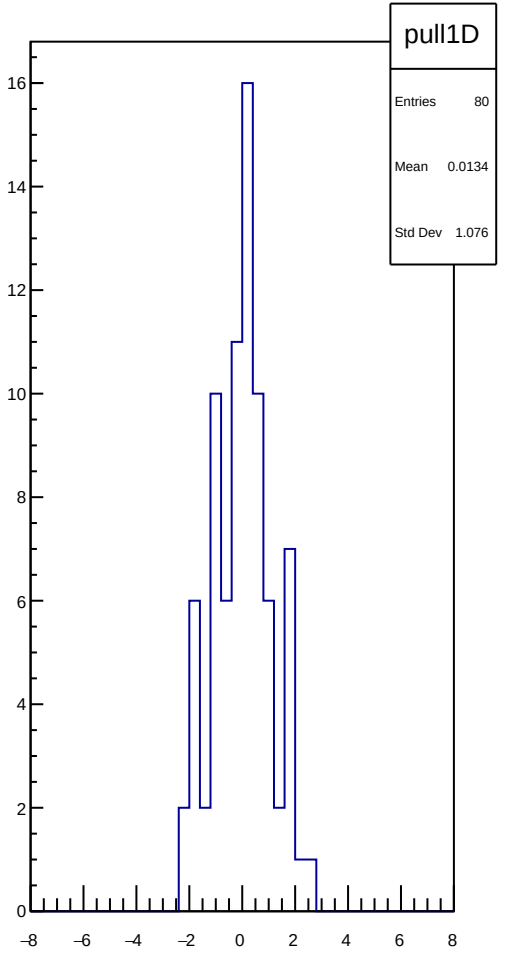

yield_sam7_rms vs run
χ² / ndf 2.403e+05 / 79
p0 0.002385 ± 2.073e−06
0.006
0.005
0.004
0.003
0.002
0.001

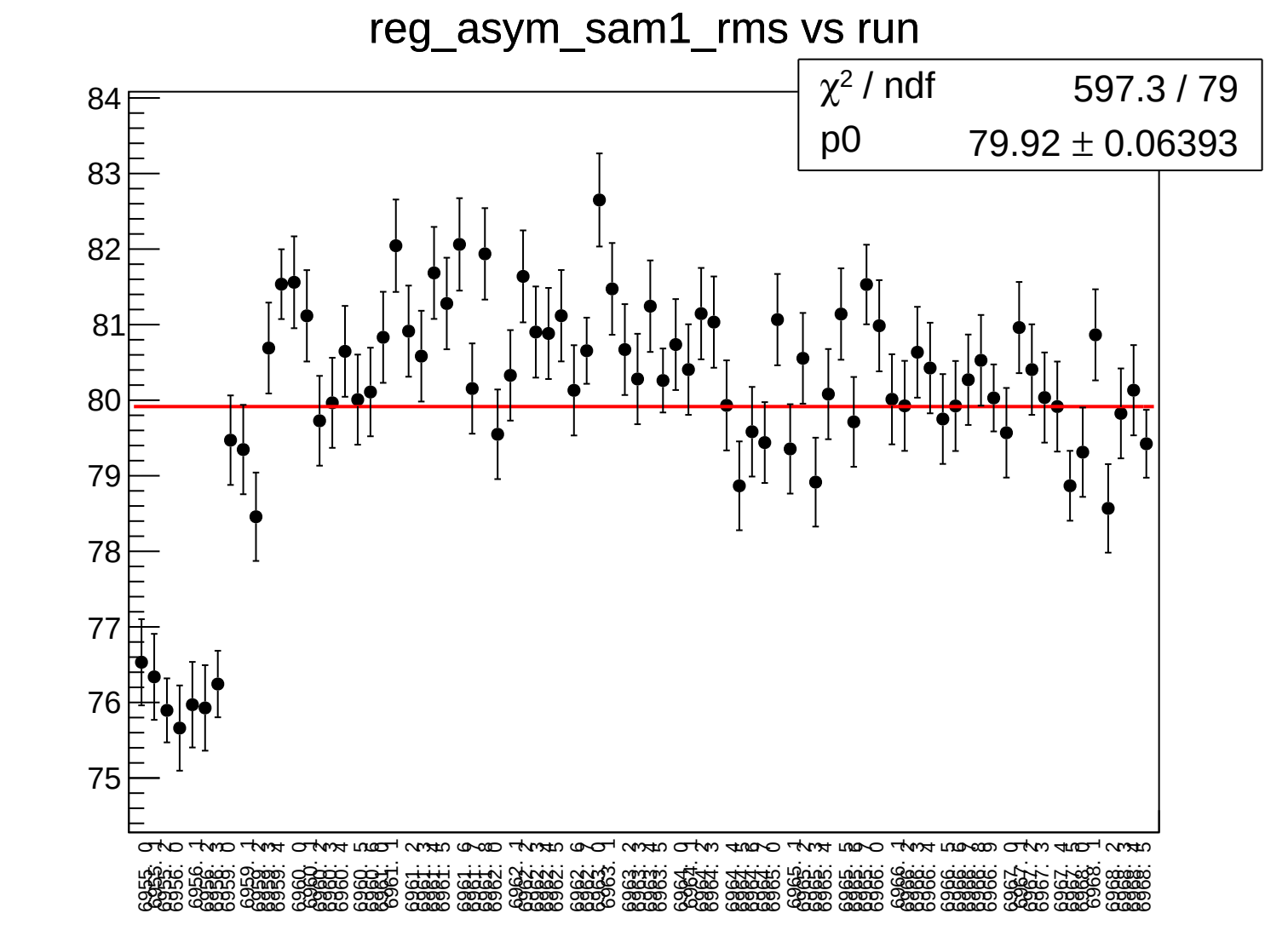

yield_sam8_mean vs run
χ² / ndf 7.435e+05 / 79
p0 9.065 ± 7.652e−06
9.085
9.08
9.075
9.07
9.065
9.06
9.055
9.05
pull
Entries 80
Mean 532.9
Std Dev 493.7
250
200
150
100
50
0
−50
−100
−150

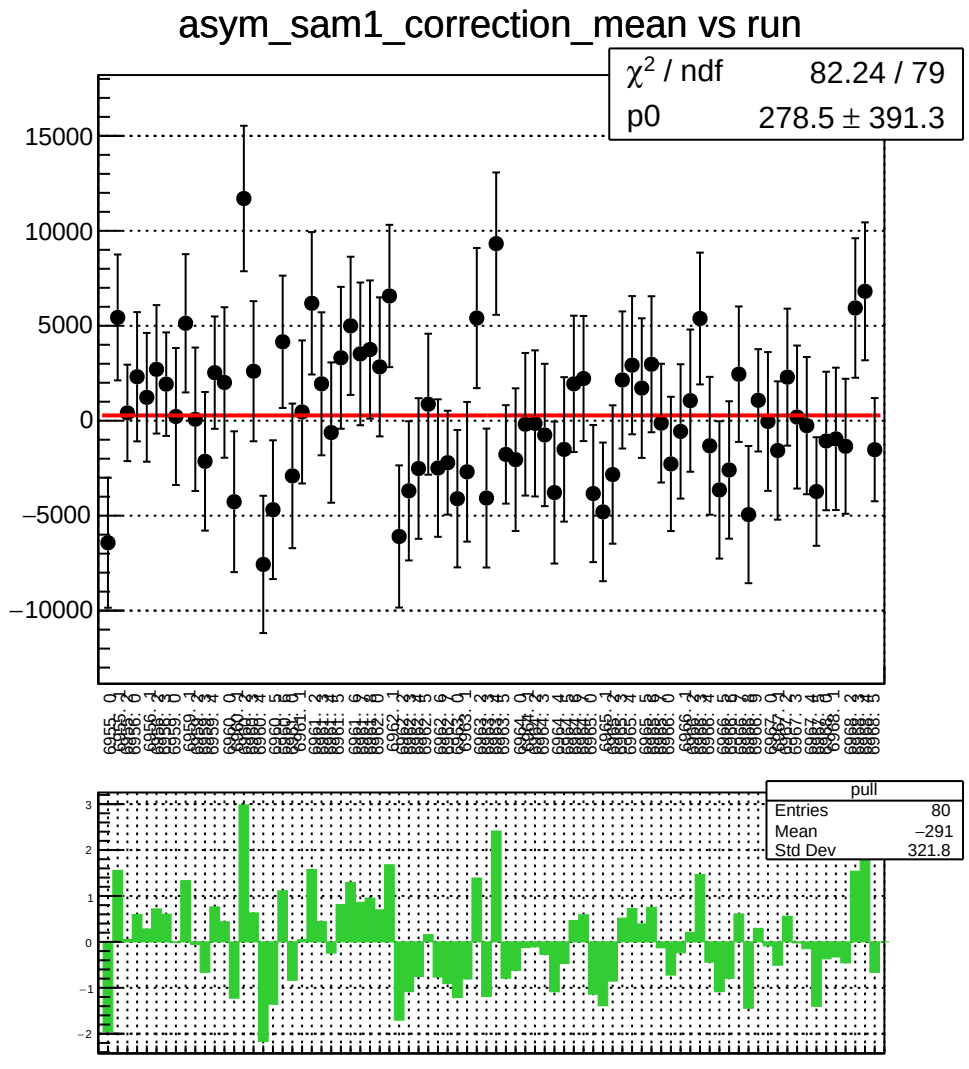

pull1D
Entries 80
Mean −2.207
Std Dev 3.061
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

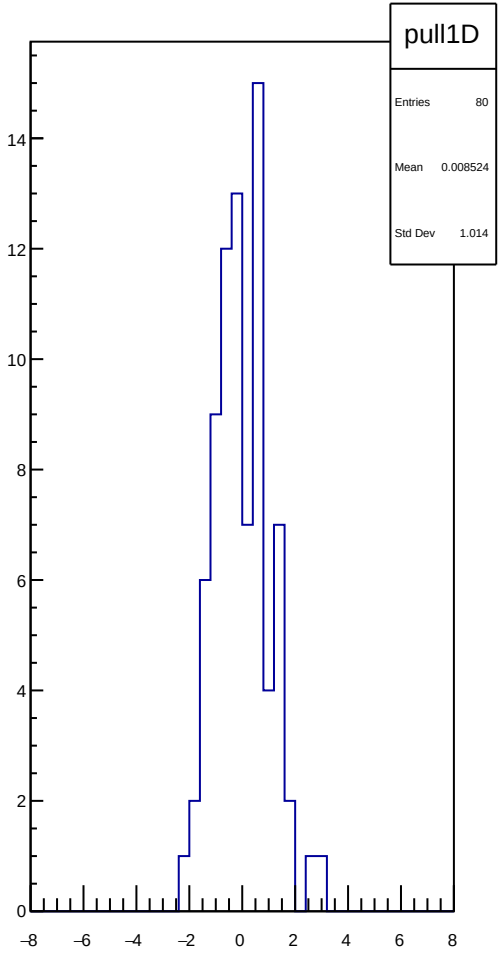

yield_sam8_rms vs run
χ^2 / ndf 2.323e+05 / 79
p0 0.006242 ± 5.411e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

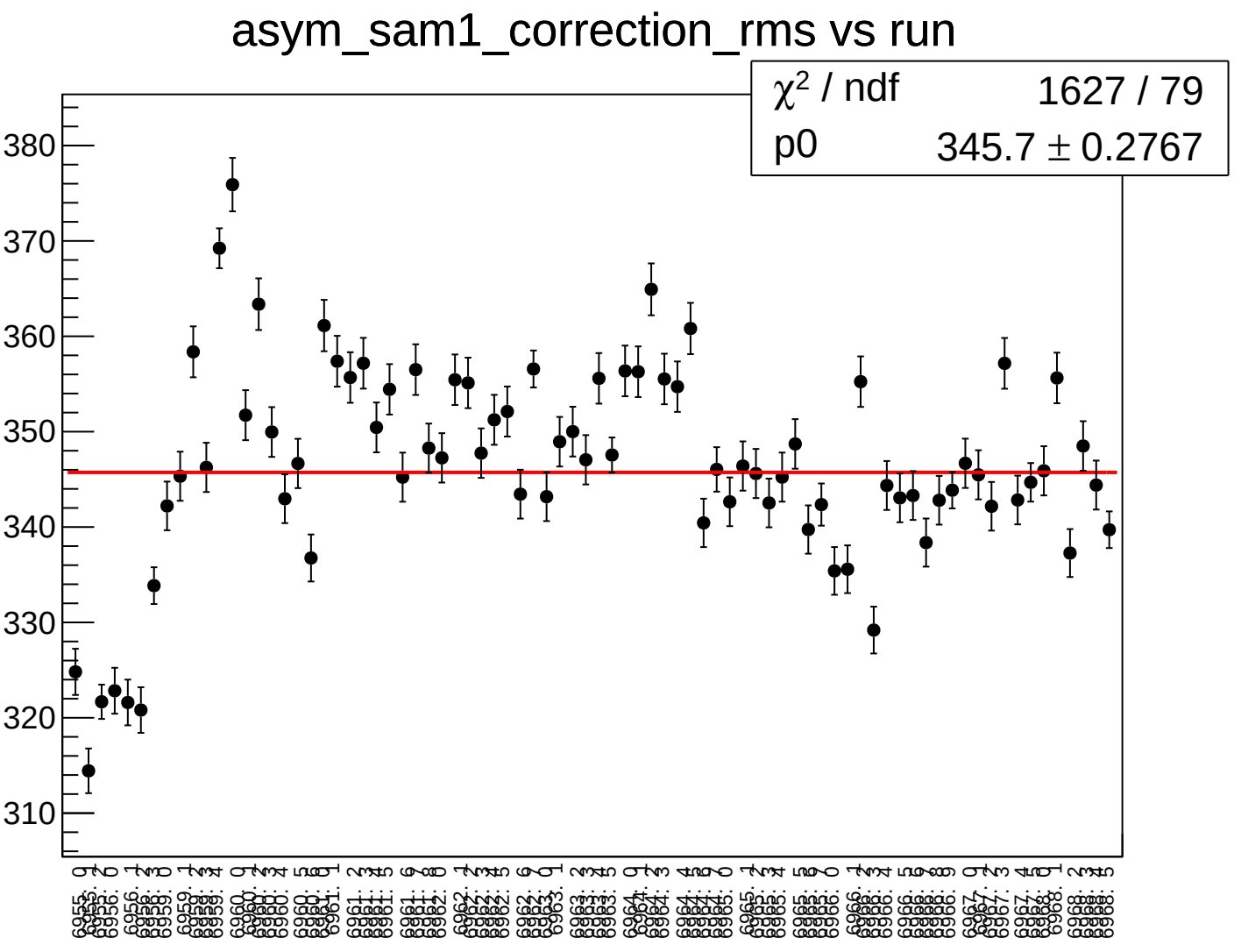

reg_asym_sam1_mean vs run
χ² / ndf 92.55 / 79
p0 34.73 ± 90.41
pull
Entries 80
Mean 82.5
Std Dev 22.8

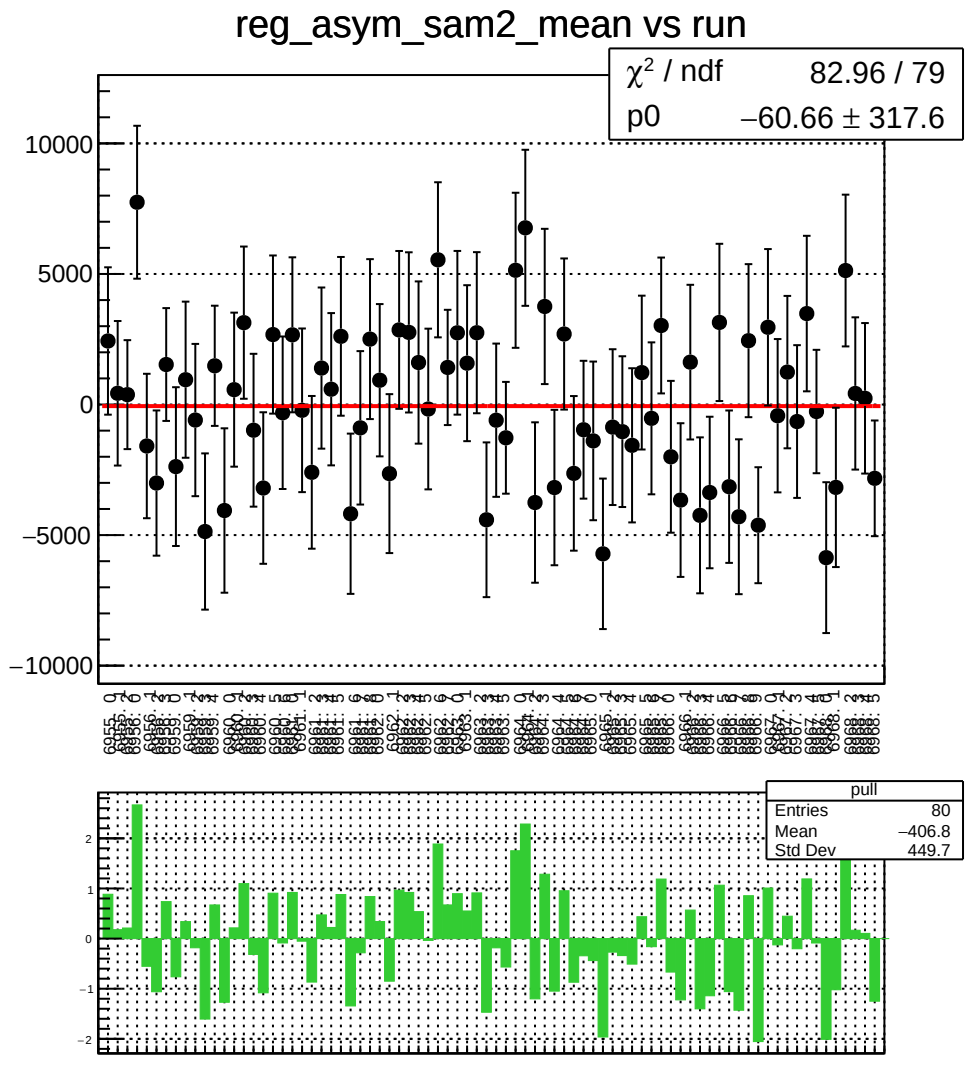

pull1D
Entries 80
Mean 0.0134
Std Dev 1.076

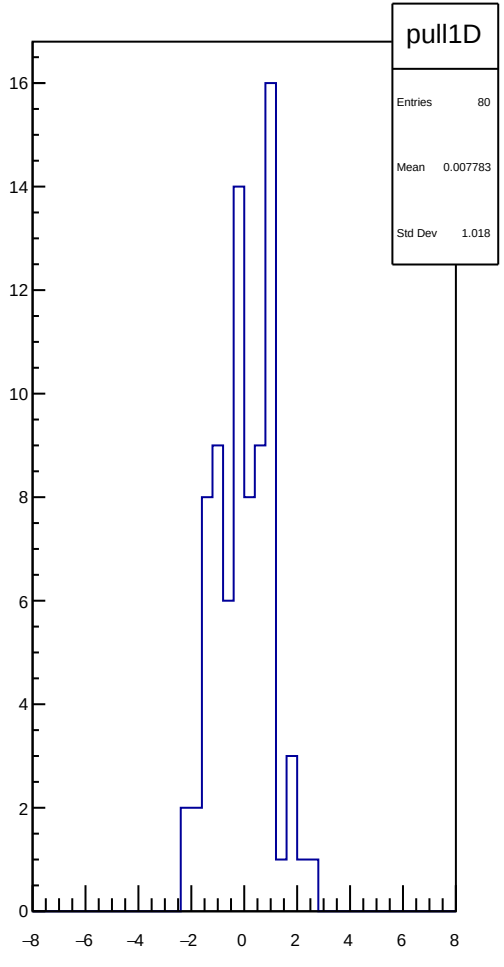

reg_asym_sam1_rms vs run
χ² / ndf 597.3 / 79
p0 79.92 ± 0.06393
84
83
82
81
80
79
78
77
76
75

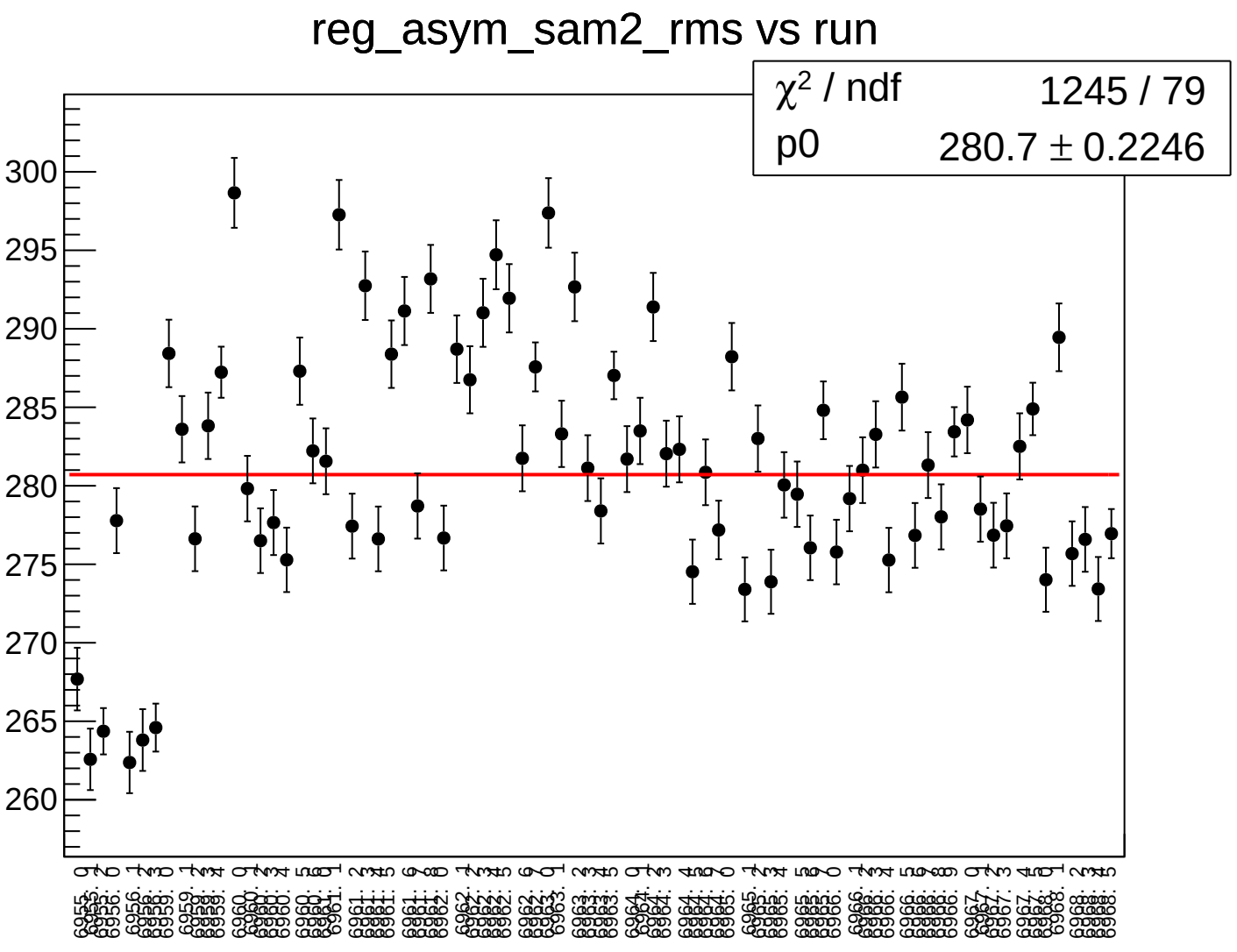

asym_sam1_correction_mean vs run
χ² / ndf 82.24 / 79
p0 278.5 ± 391.3
15000
10000
5000
0
−5000
−10000
pull
Entries 80
Mean −291
Std Dev 321.8
3
2
1
0
−1
−2

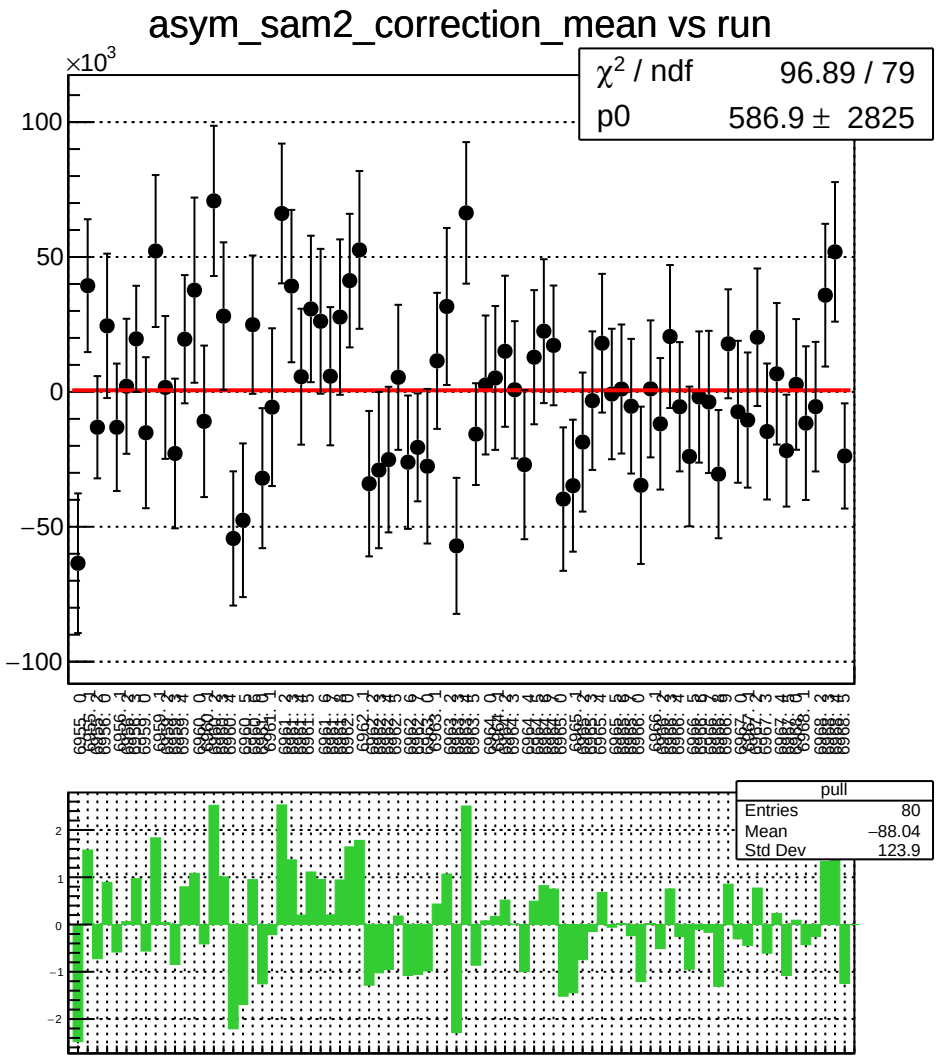

pull1D
Entries 80
Mean 0.008524
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

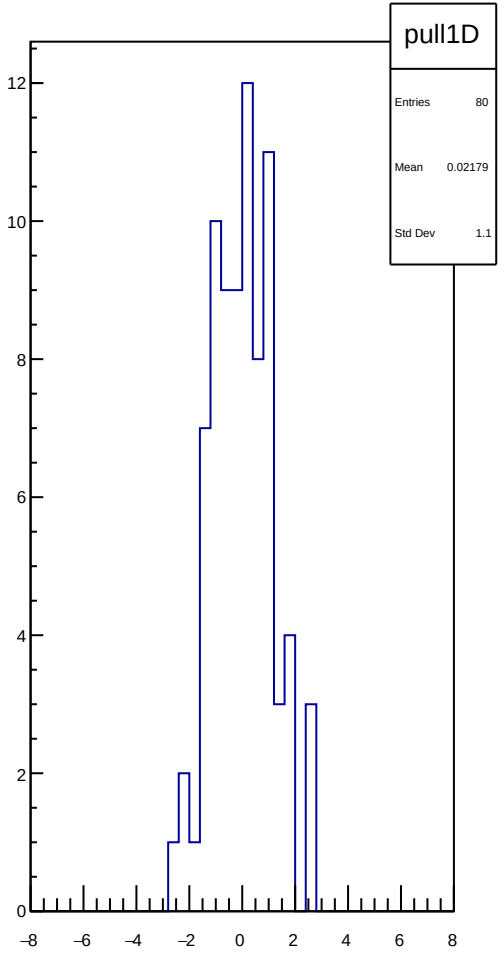

asym_sam1_correction_rms vs run
χ² / ndf 1627 / 79
p0 345.7 ± 0.2767
380
370
360
350
340
330
320
310


reg_asym_sam2_mean vs run
χ² / ndf 82.96 / 79
p0 −60.66 ± 317.6
10000
5000
0
−5000
−10000
pull
Entries 80
Mean −406.8
Std Dev 449.7
2
1
0
−1
−2

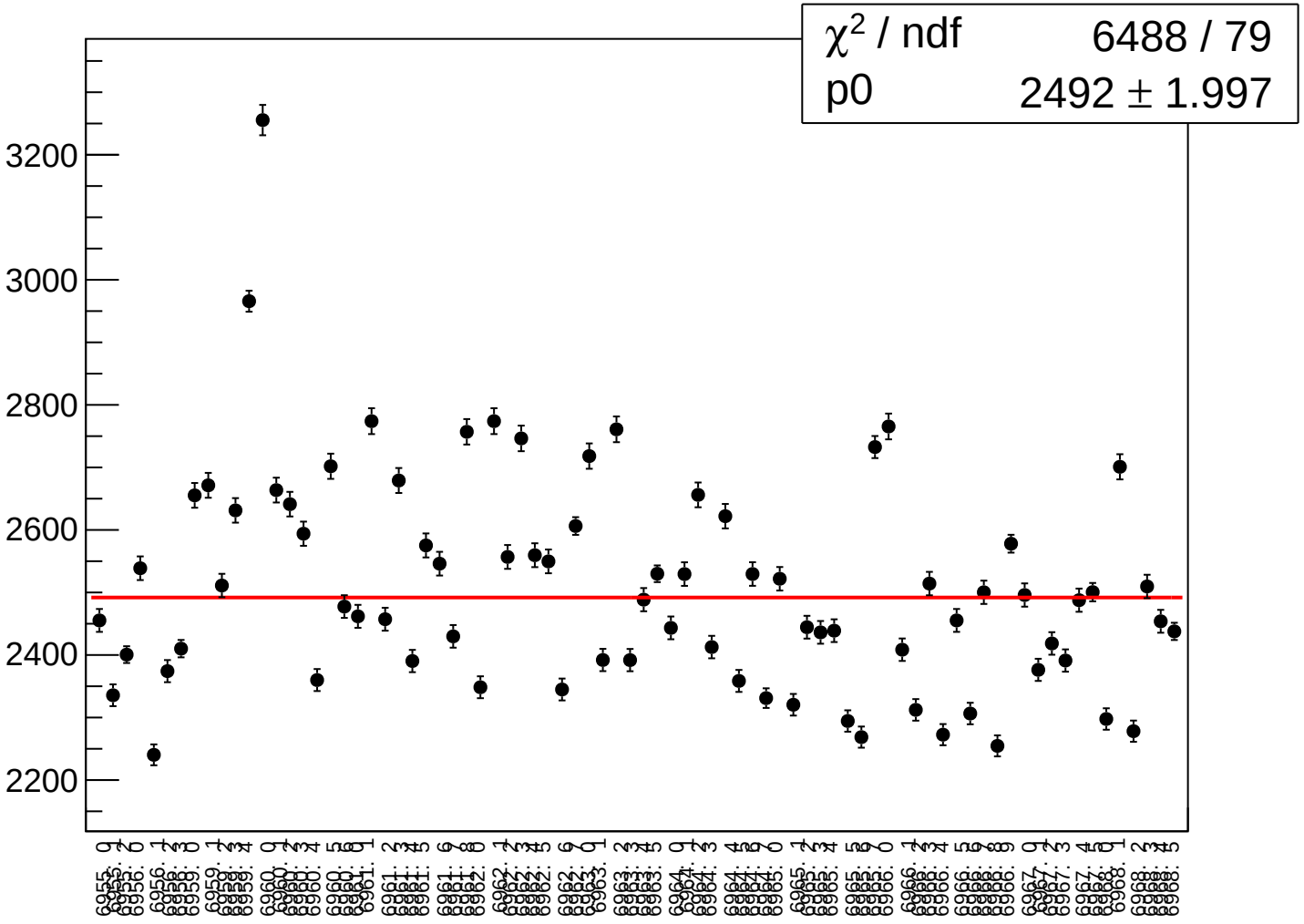

pull1D
Entries 80
Mean 0.007783
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

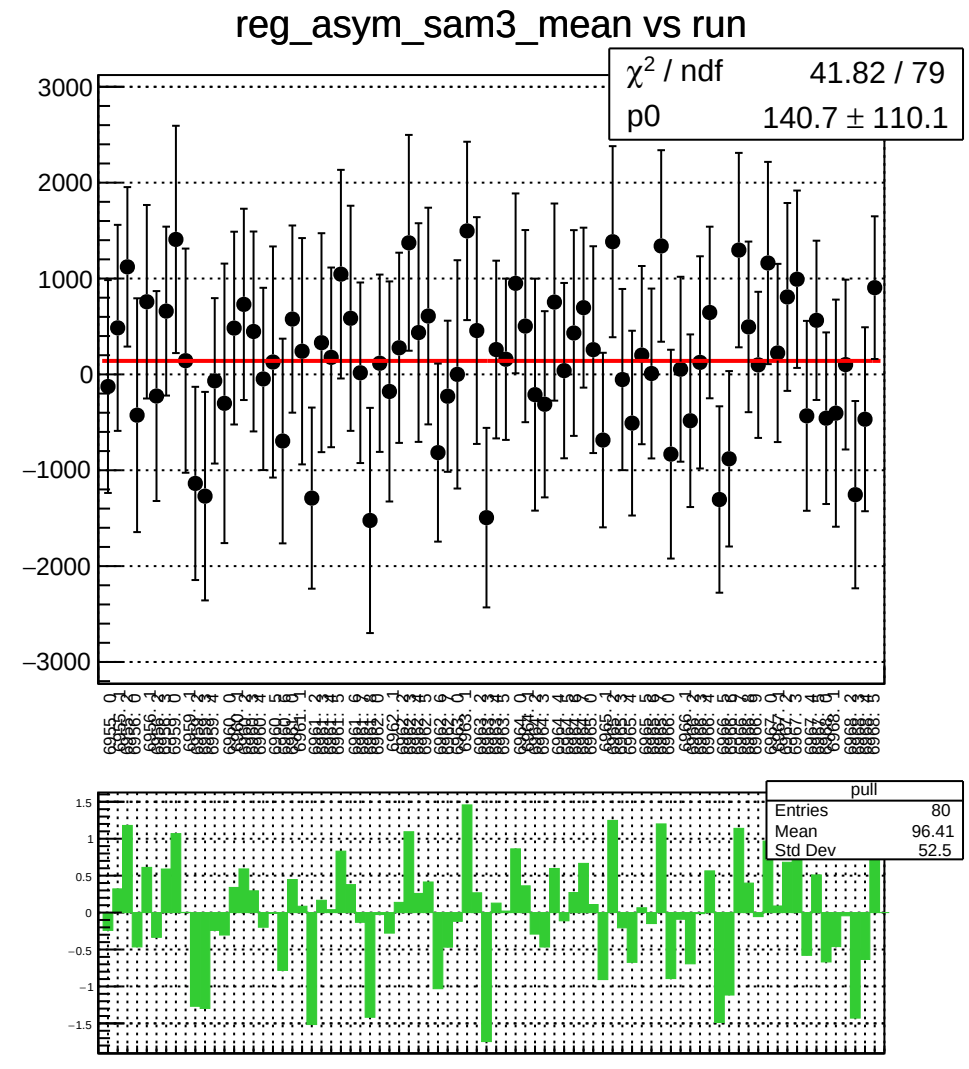

reg_asym_sam2_rms vs run
χ² / ndf 1245 / 79
p0 280.7 ± 0.2246
300
295
290
285
280
275
270
265
260

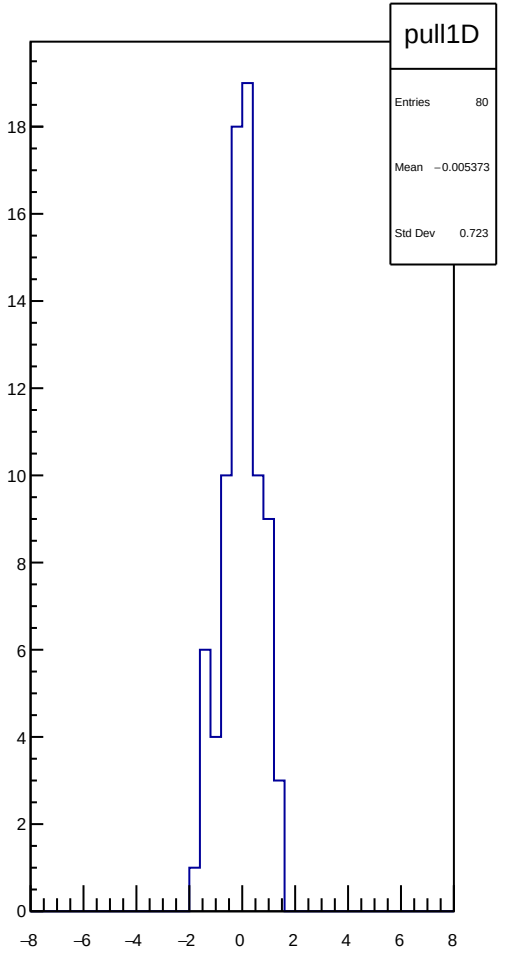

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 96.89 / 79
p0 586.9 ± 2825
100
50
0
−50
−100
pull
Entries 80
Mean −88.04
Std Dev 123.9
2
1
0
−1
−2

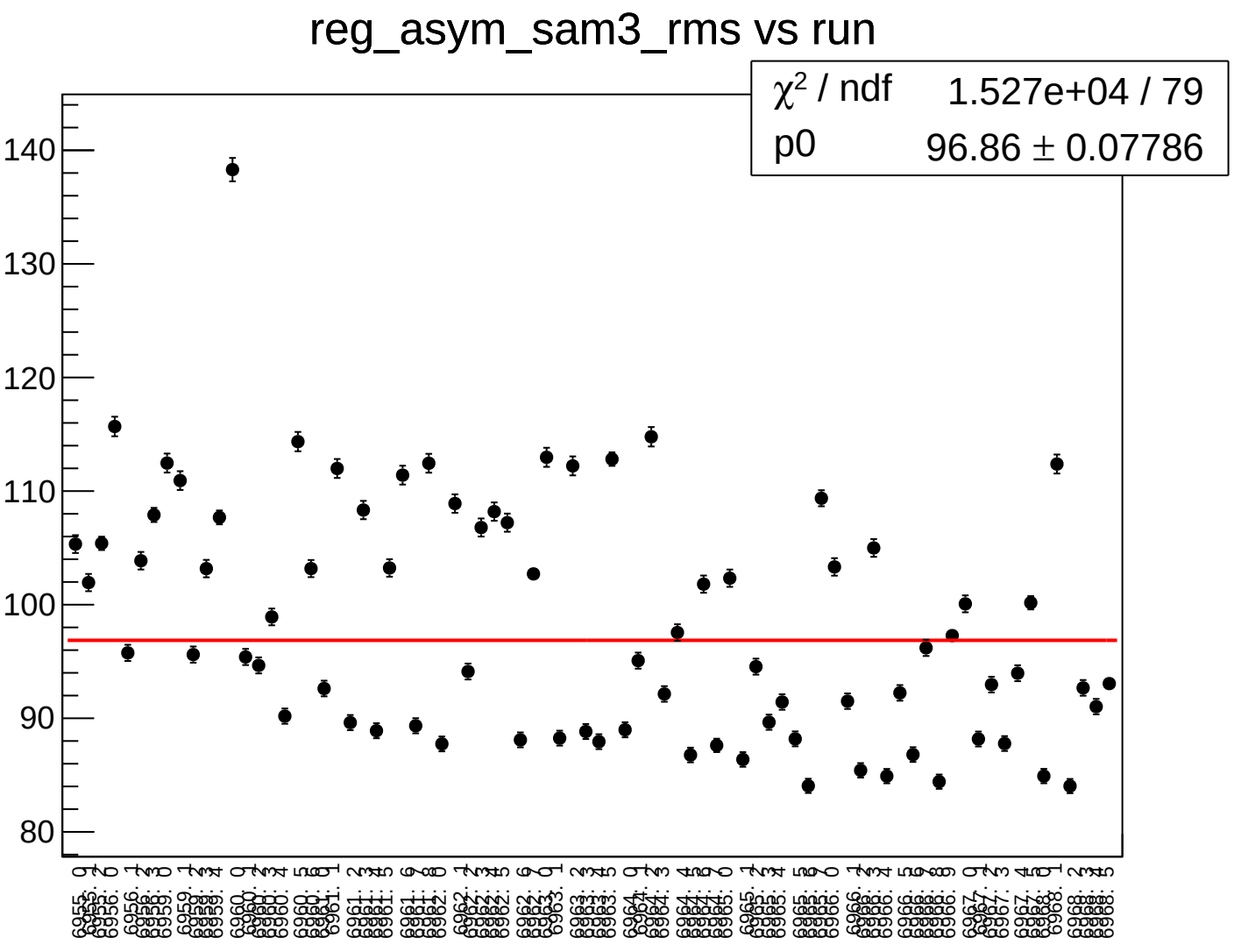

pull1D
Entries 80
Mean 0.02179
Std Dev 1.1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

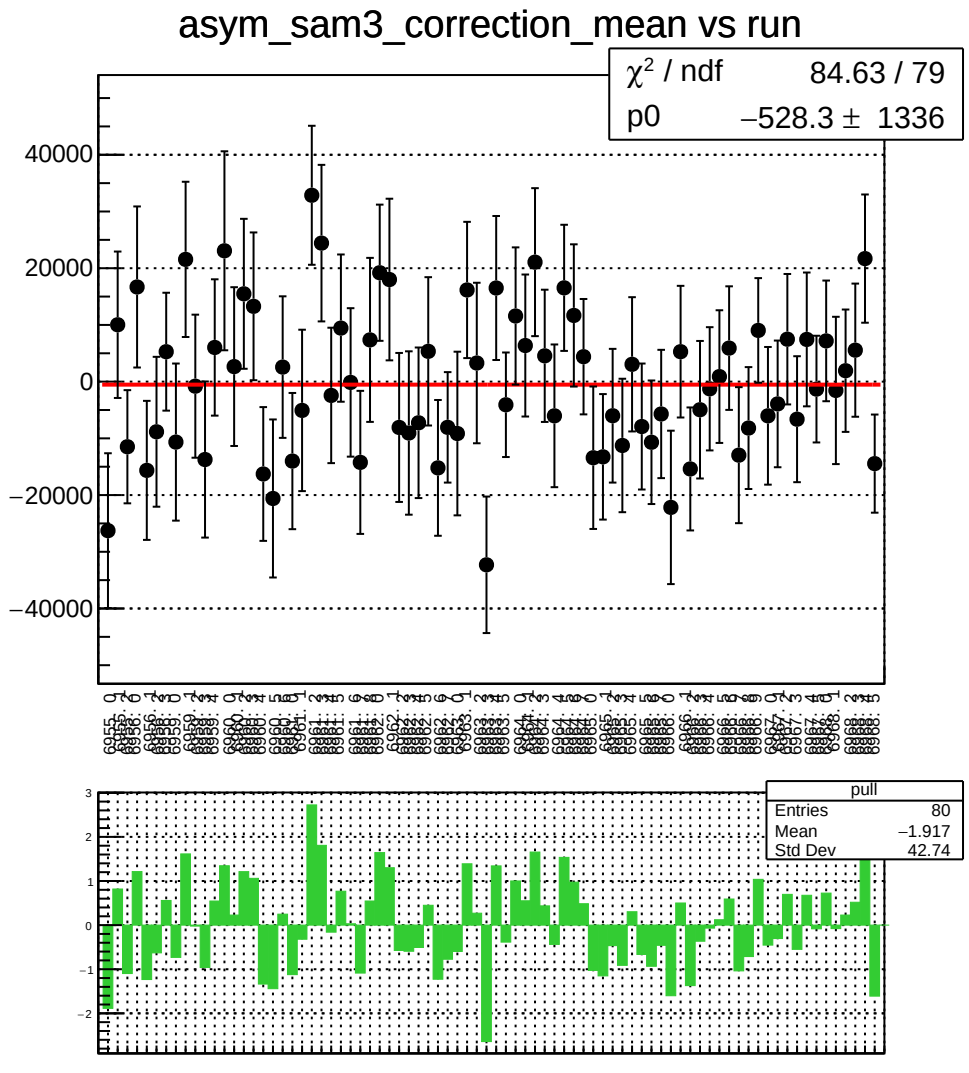
asym_sam2_correction_rms vs run

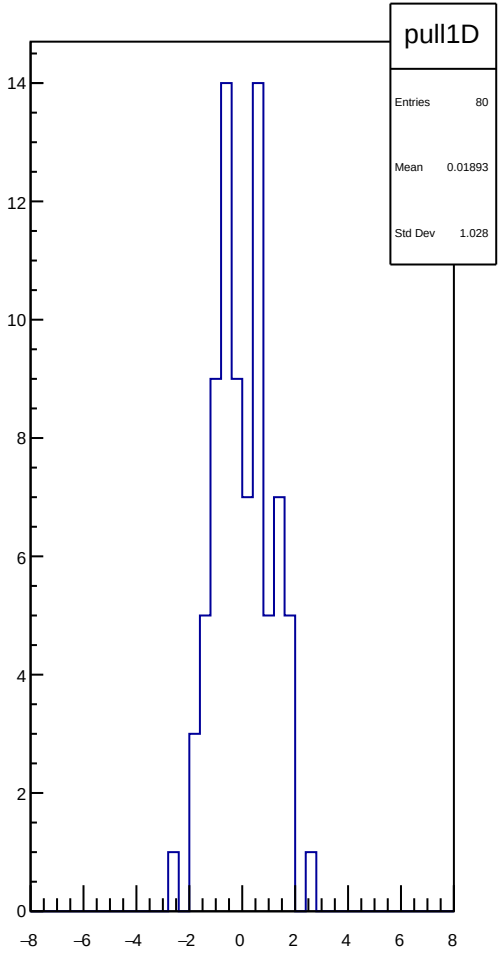


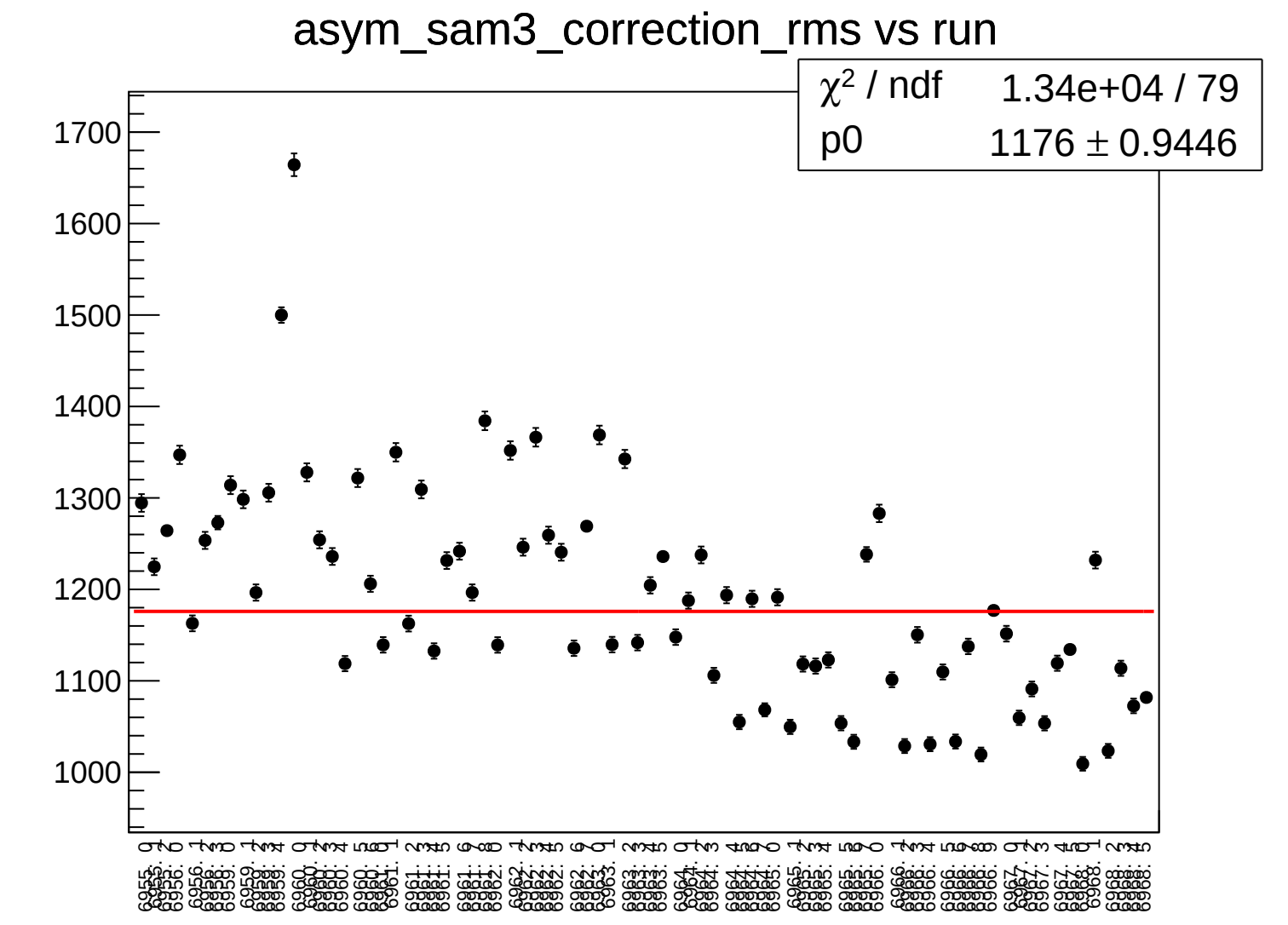

reg_asym_sam3_mean vs run
χ² / ndf 41.82 / 79
p0 140.7 ± 110.1
pull
Entries 80
Mean 96.41
Std Dev 52.5

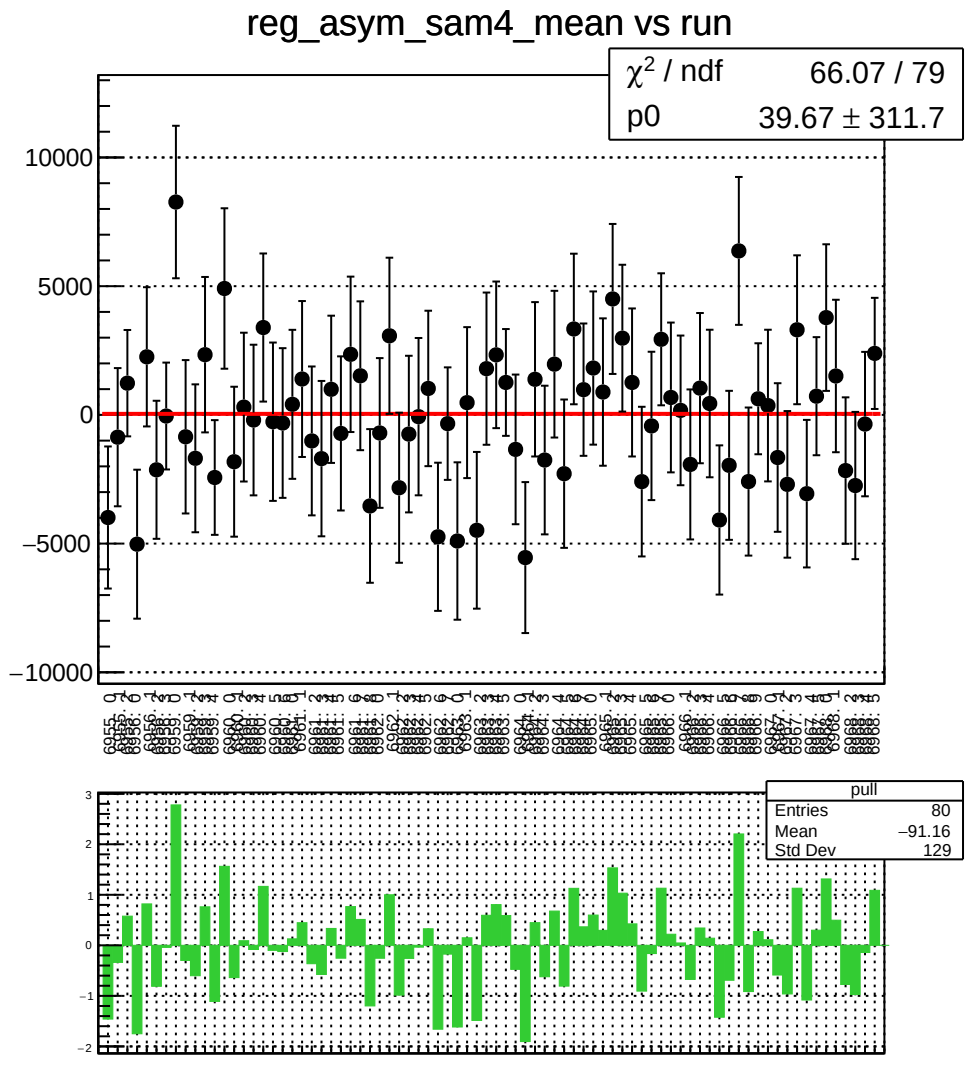

pull1D
Entries 80
Mean −0.005373
Std Dev 0.723

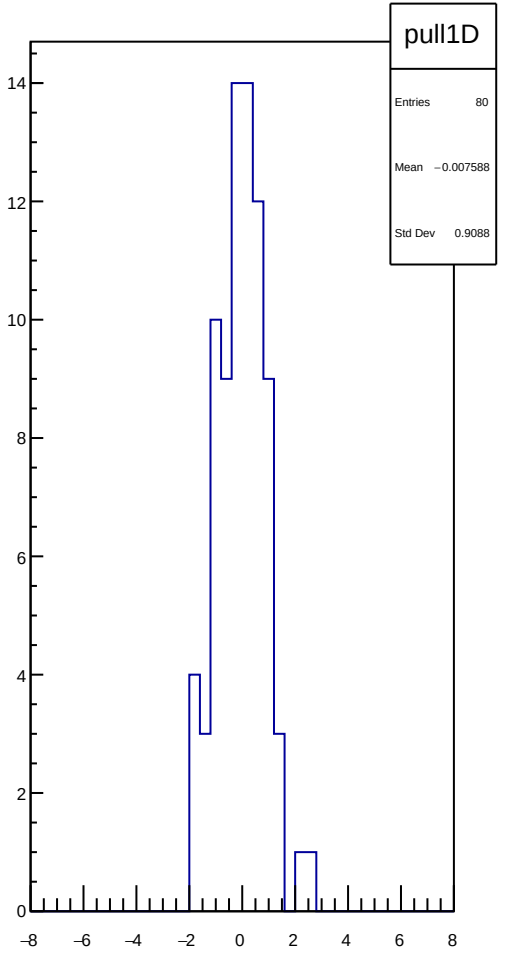

reg_asym_sam3_rms vs run
χ² / ndf 1.527e+04 / 79
p0 96.86 ± 0.07786
140
130
120
110
100
90
80

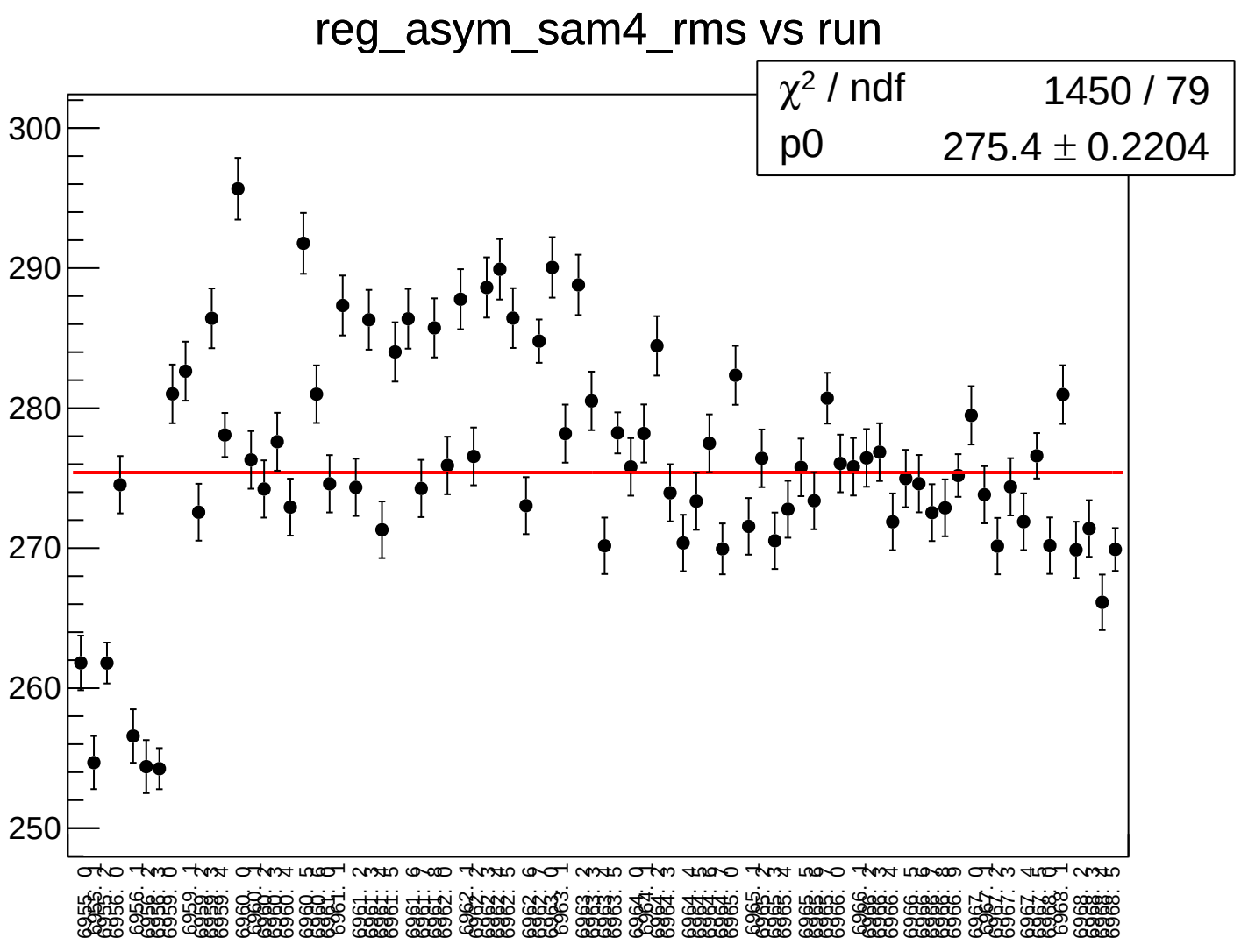

asym_sam3_correction_mean vs run
χ² / ndf 84.63 / 79
p0 −528.3 ± 1336
40000
20000
0
−20000
−40000
pull
Entries 80
Mean −1.917
Std Dev 42.74
3
2
1
0
−1
−2

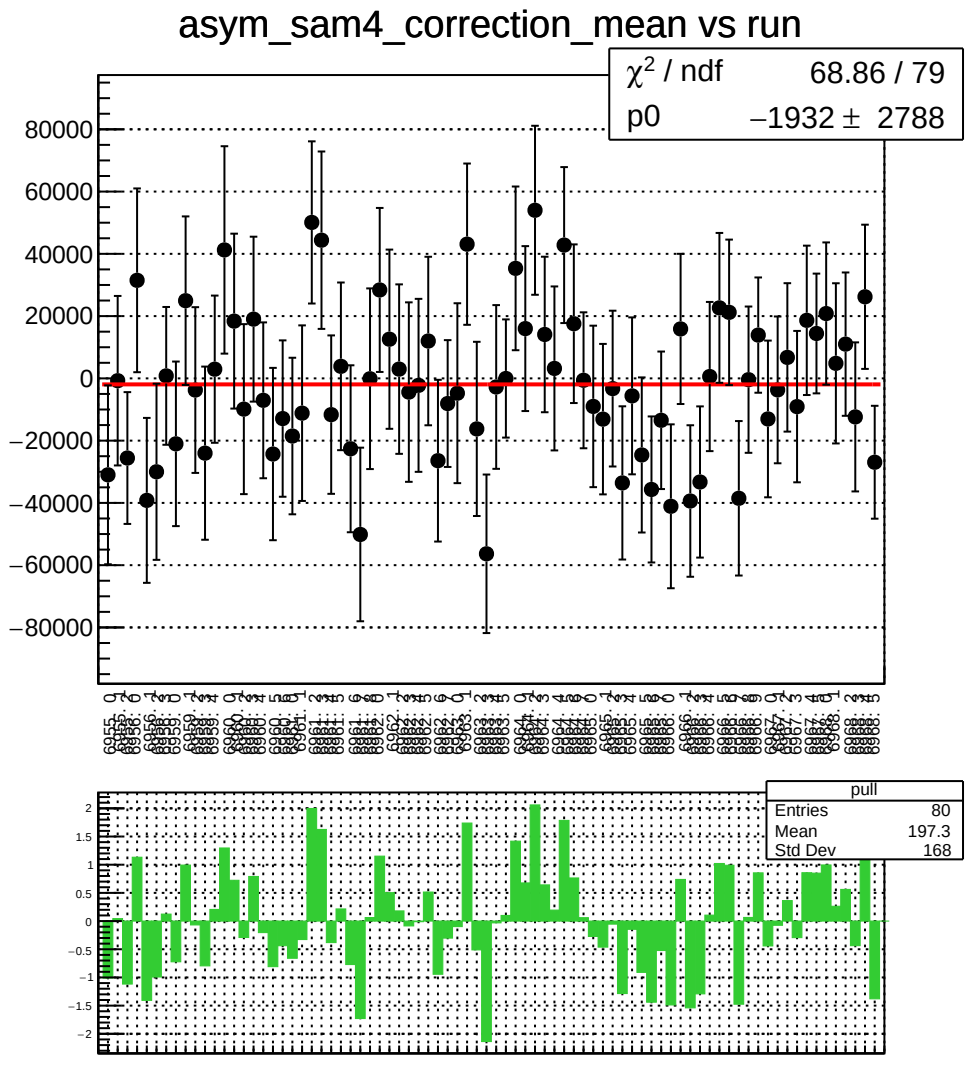

pull1D
Entries 80
Mean 0.01893
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

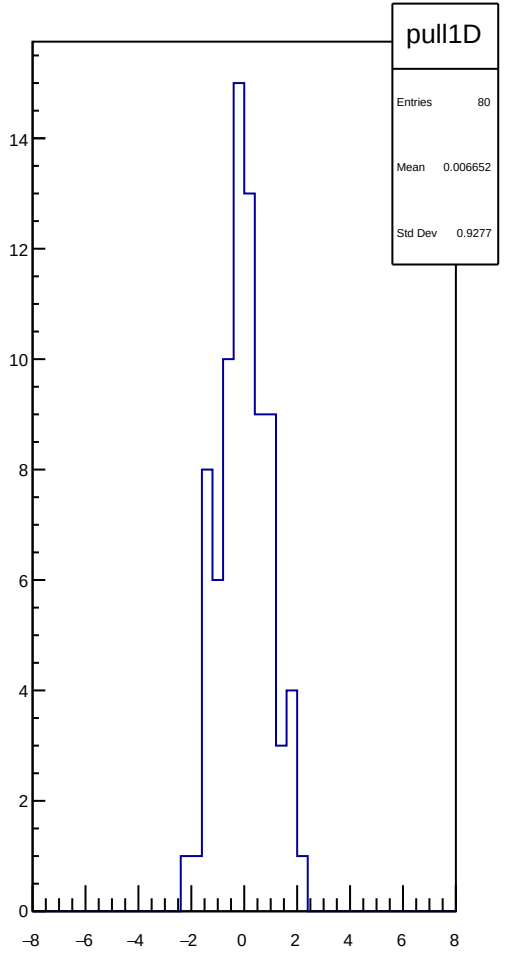

asym_sam3_correction_rms vs run
χ² / ndf 1.34e+04 / 79
p0 1176 ± 0.9446
1700
1600
1500
1400
1300
1200
1100
1000

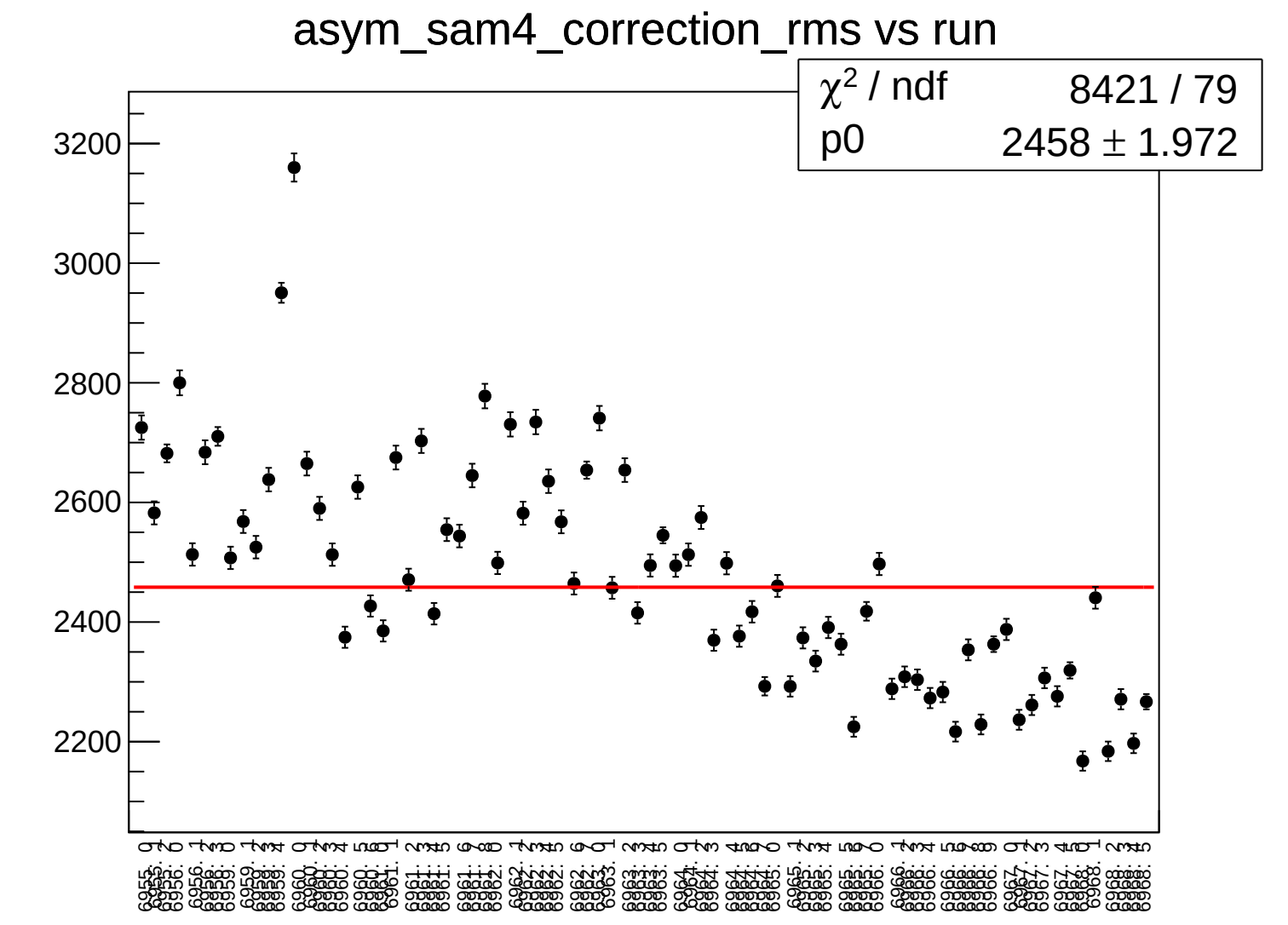

reg_asym_sam4_mean vs run
χ² / ndf 66.07 / 79
p0 39.67 ± 311.7
10000
5000
0
−5000
−10000
pull
Entries 80
Mean −91.16
Std Dev 129
3
2
1
0
−1
−2

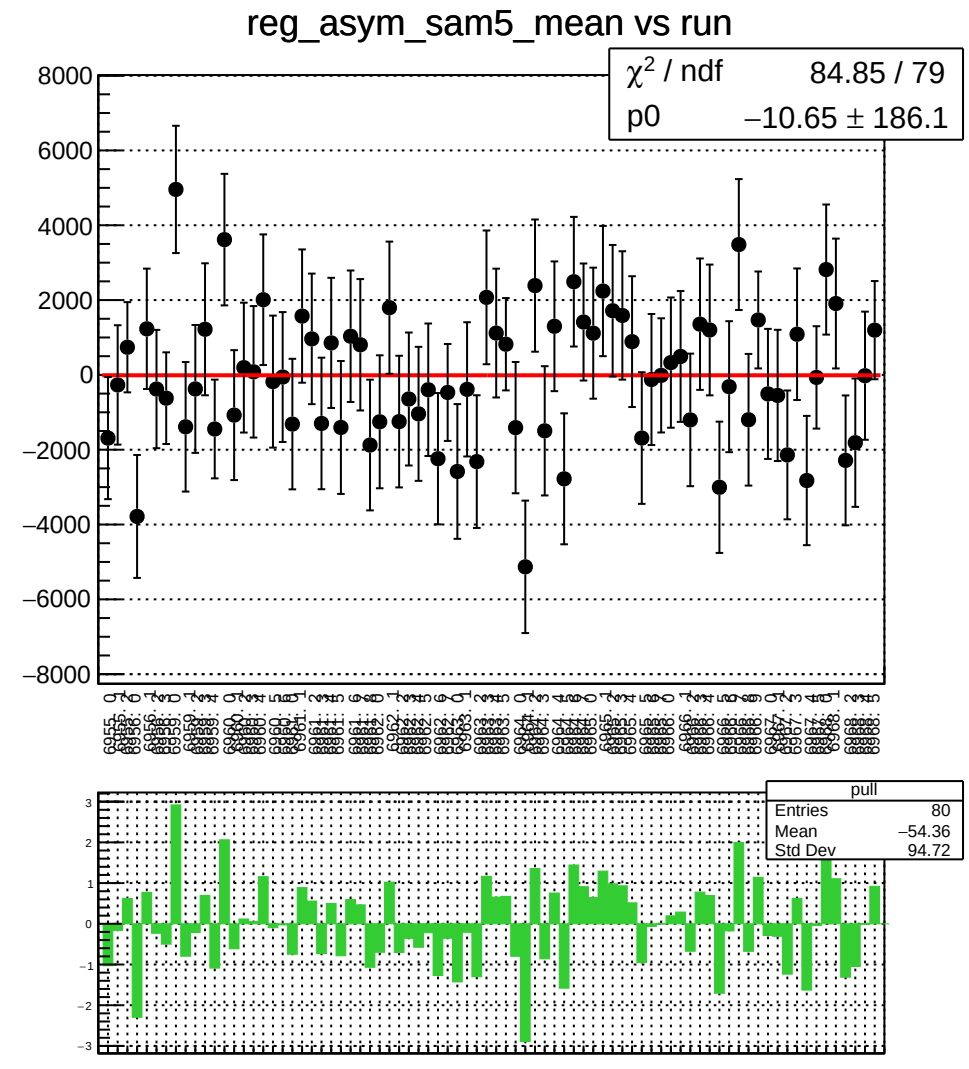

pull1D
Entries 80
Mean −0.007588
Std Dev 0.9088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

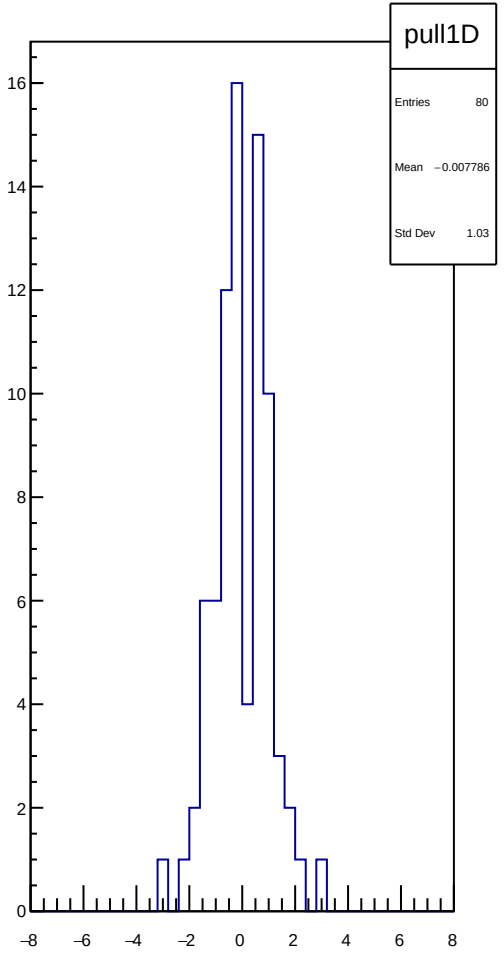

reg_asym_sam4_rms vs run
χ² / ndf 1450 / 79
p0 275.4 ± 0.2204
300
290
280
270
260
250

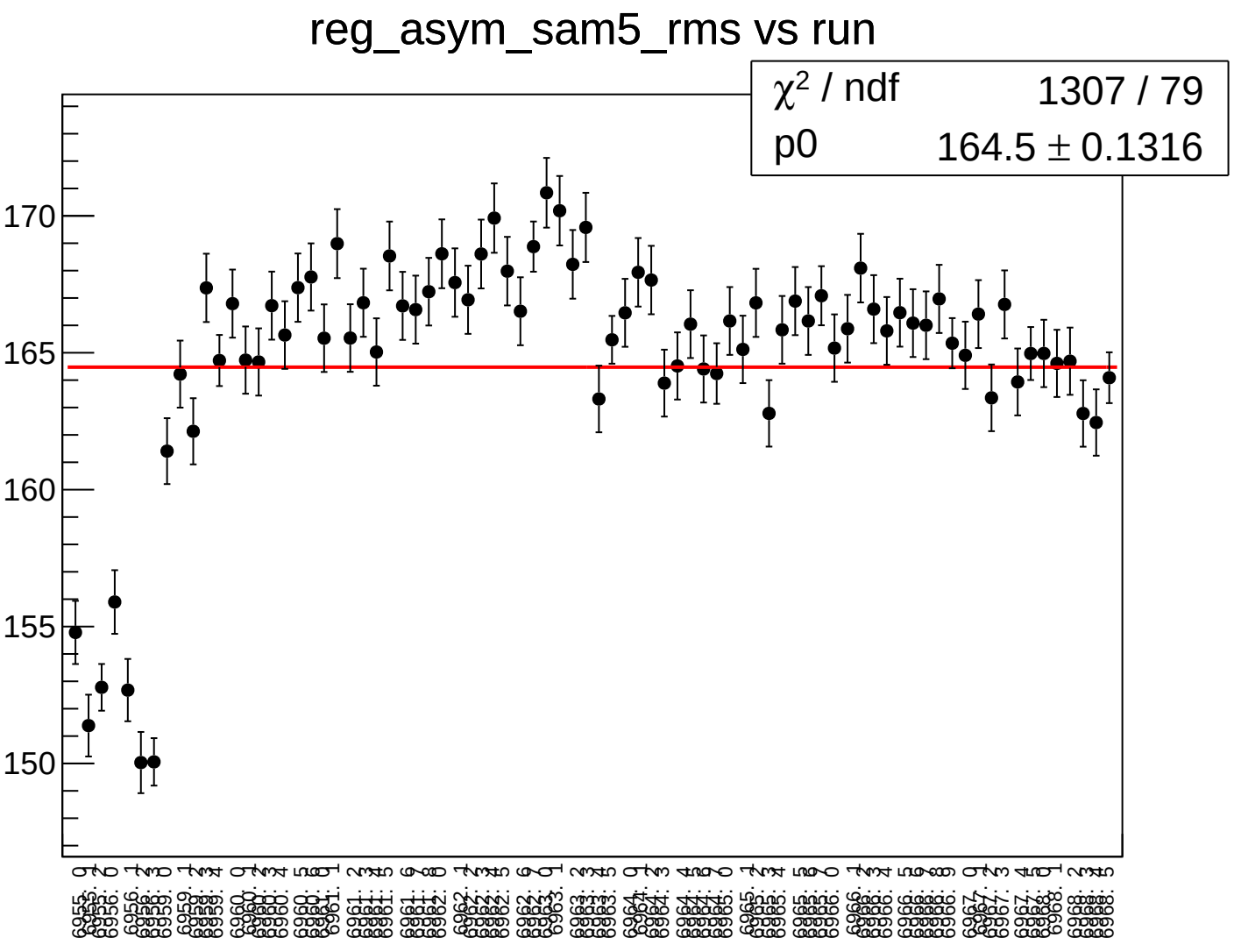

asym_sam4_correction_mean vs run
χ² / ndf 68.86 / 79
p0 −1932 ± 2788
pull
Entries 80
Mean 197.3
Std Dev 168

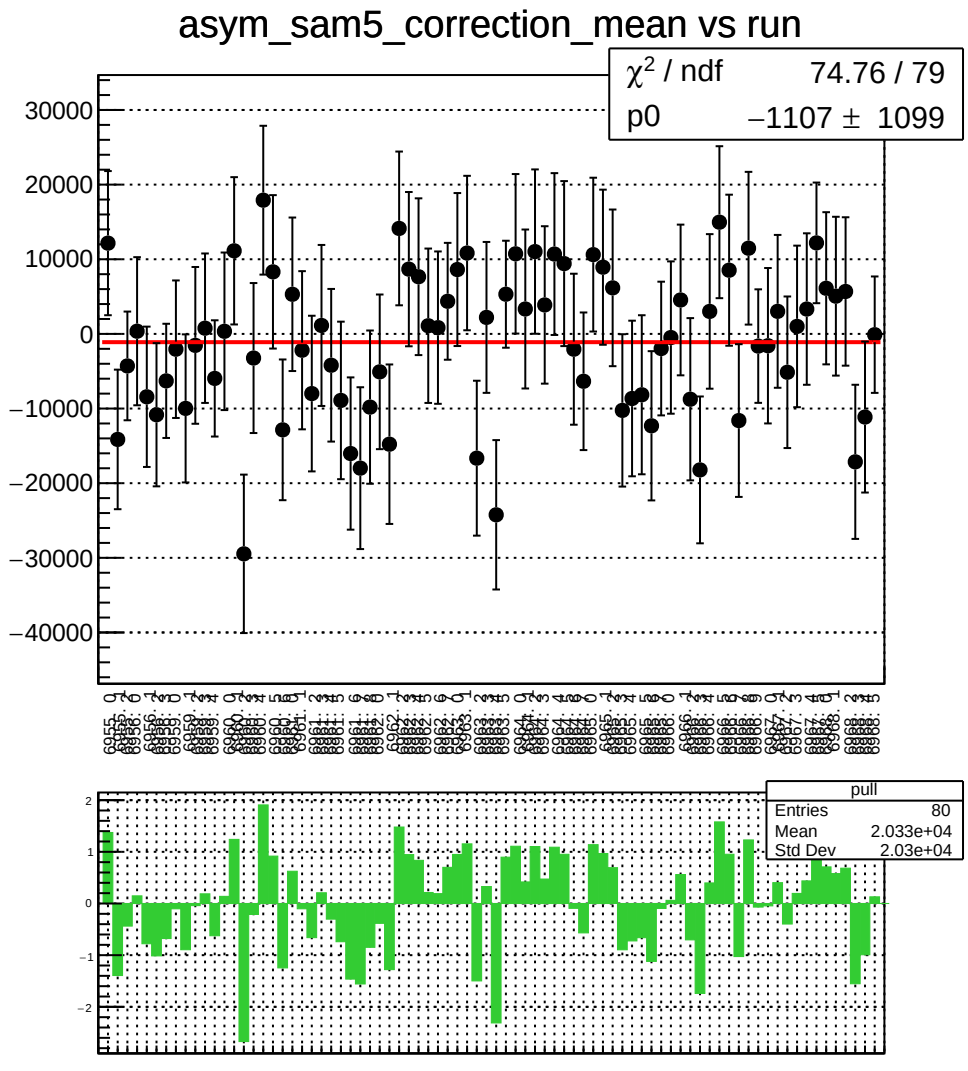

pull1D
Entries 80
Mean 0.006652
Std Dev 0.9277

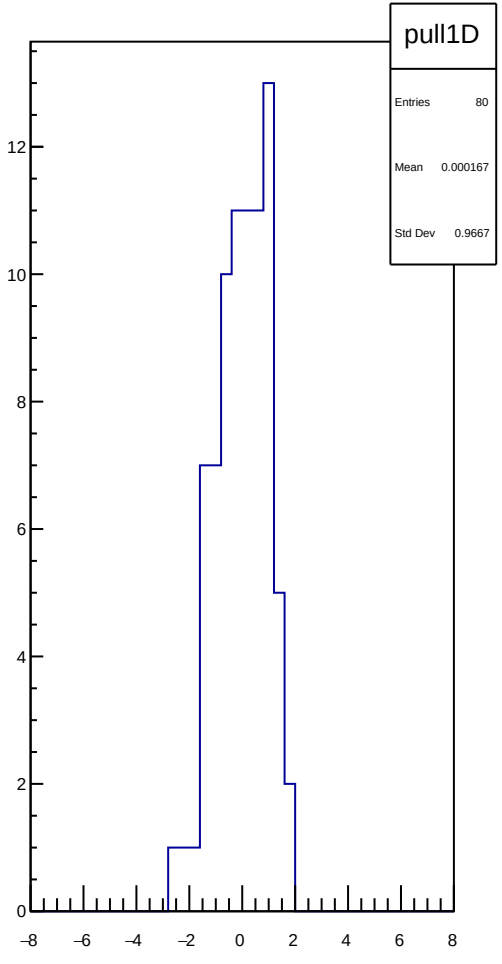

asym_sam4_correction_rms vs run
χ² / ndf 8421 / 79
p0 2458 ± 1.972
3200
3000
2800
2600
2400
2200

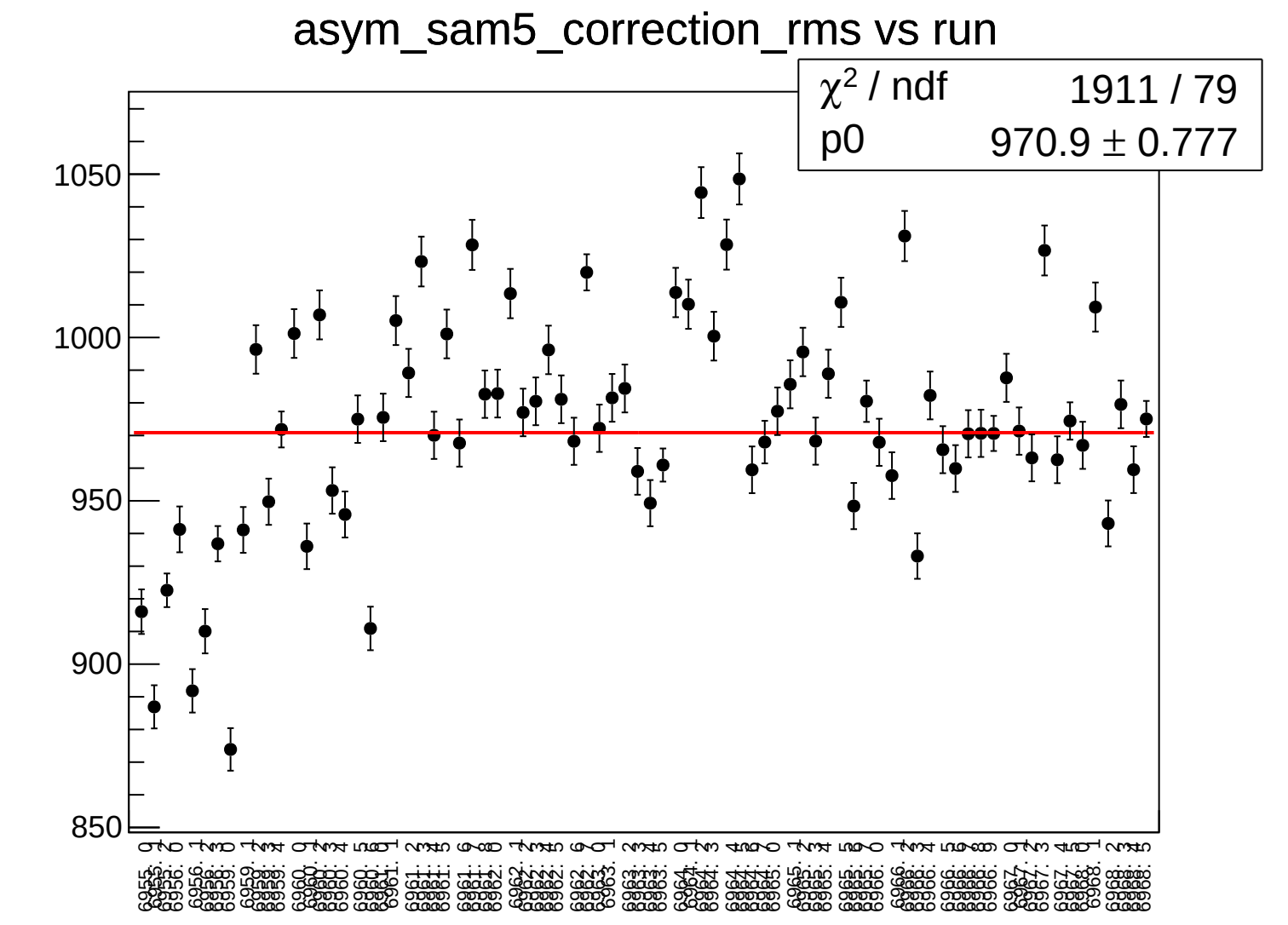

reg_asym_sam5_mean vs run
χ² / ndf 84.85 / 79
p0 −10.65 ± 186.1
pull
Entries 80
Mean −54.36
Std Dev 94.72

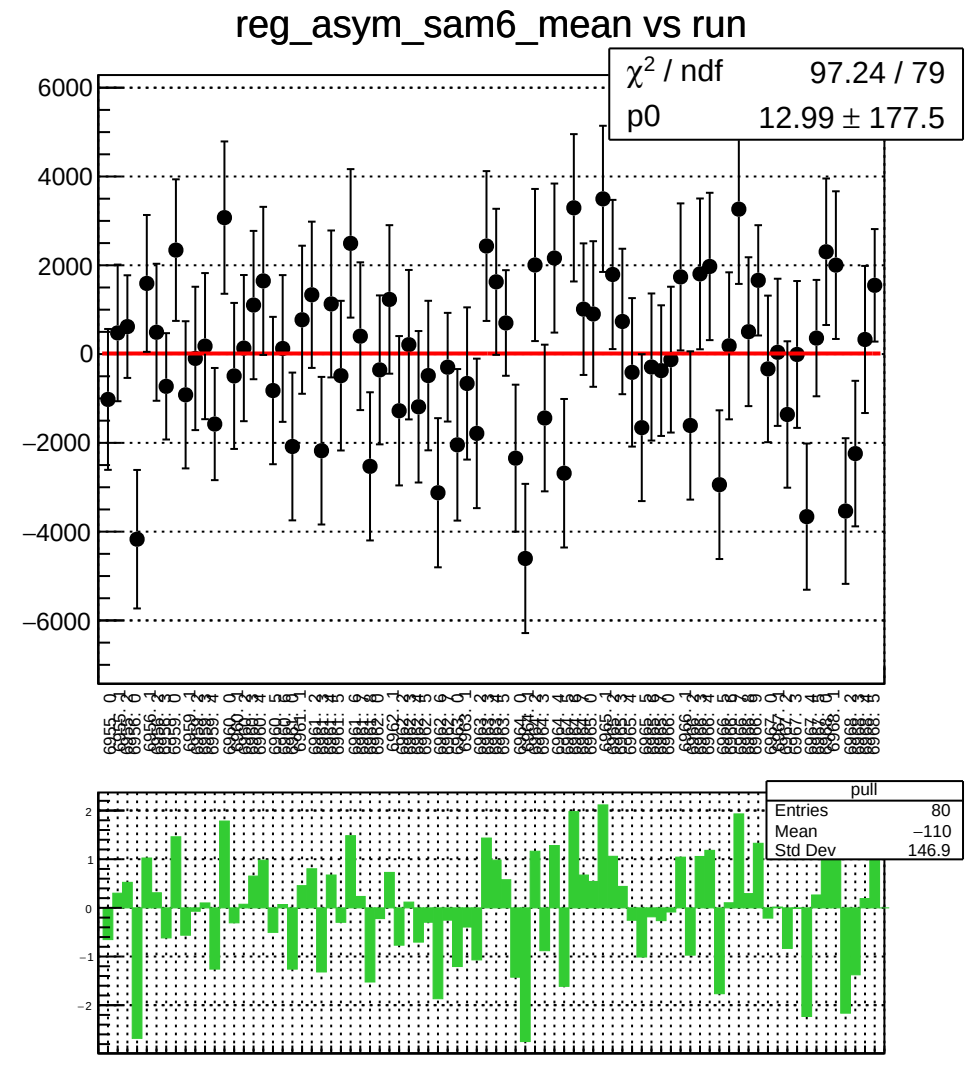

pull1D
Entries 80
Mean −0.007786
Std Dev 1.03

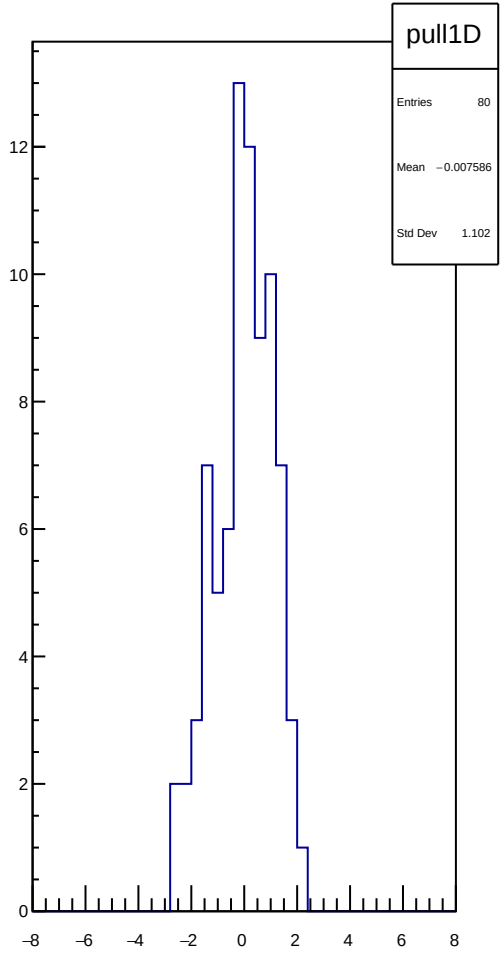

reg_asym_sam5_rms vs run
χ² / ndf 1307 / 79
p0 164.5 ± 0.1316
170
165
160
155
150

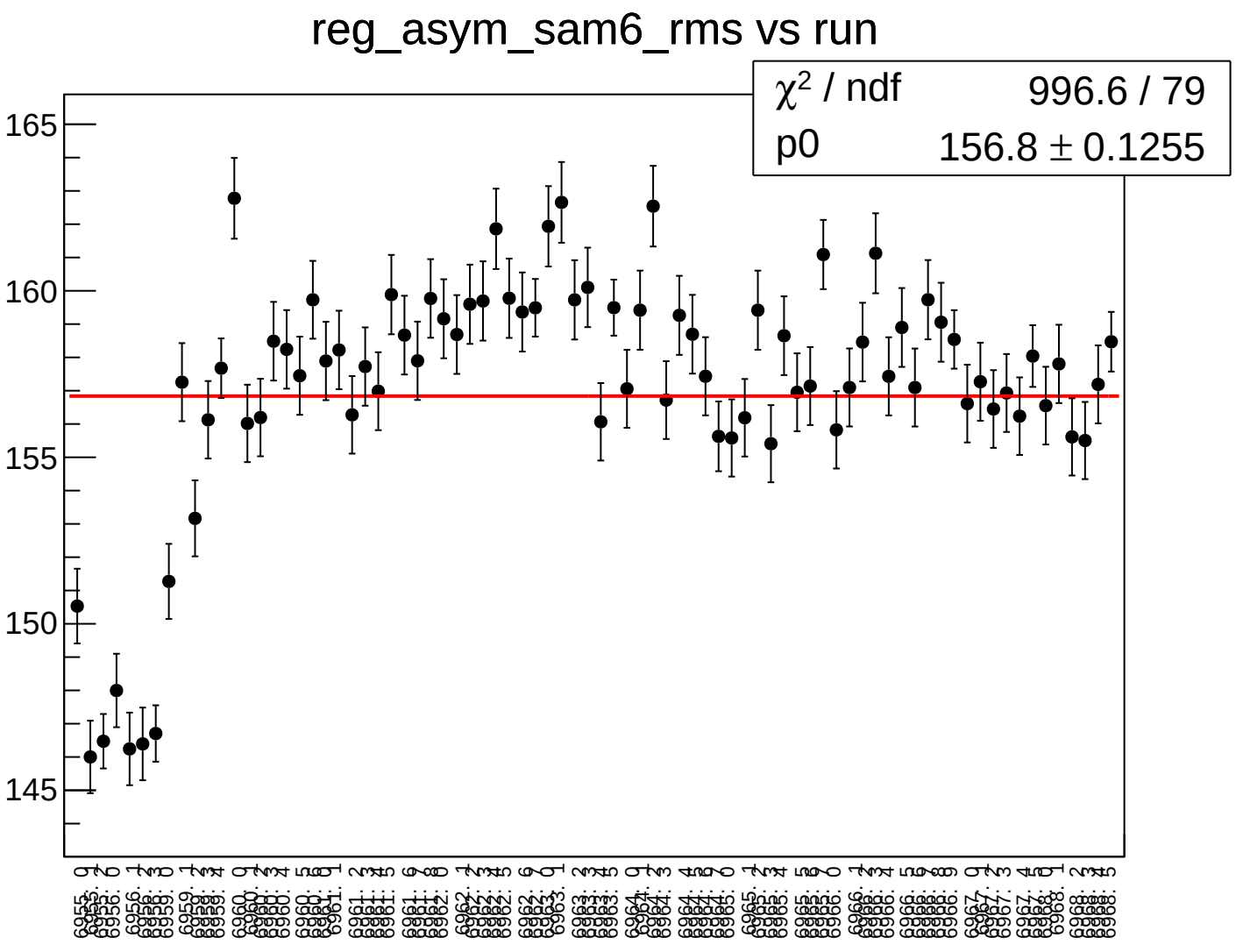

asym_sam5_correction_mean vs run
χ² / ndf 74.76 / 79
p0 −1107 ± 1099
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 80
Mean 2.033e+04
Std Dev 2.03e+04
2
1
0
−1
−2

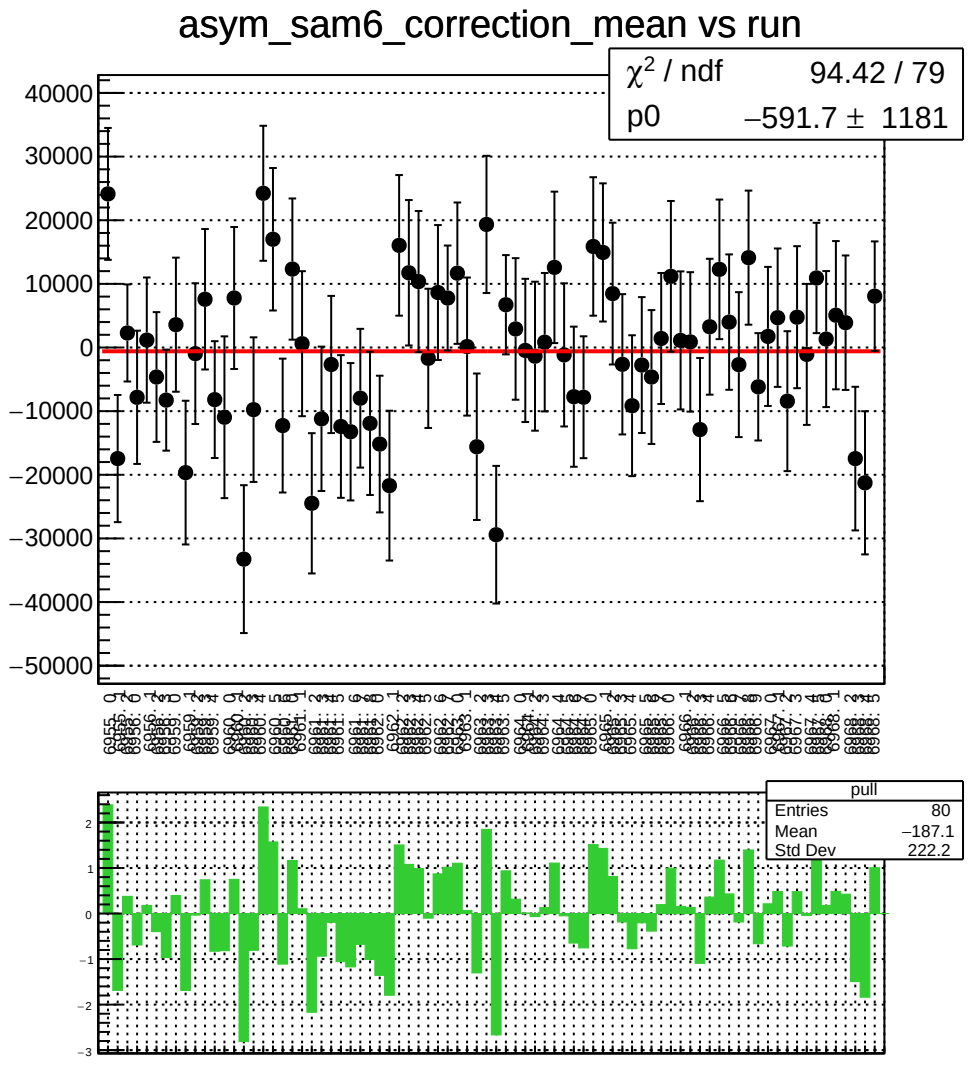

pull1D
Entries 80
Mean 0.000167
Std Dev 0.9667
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

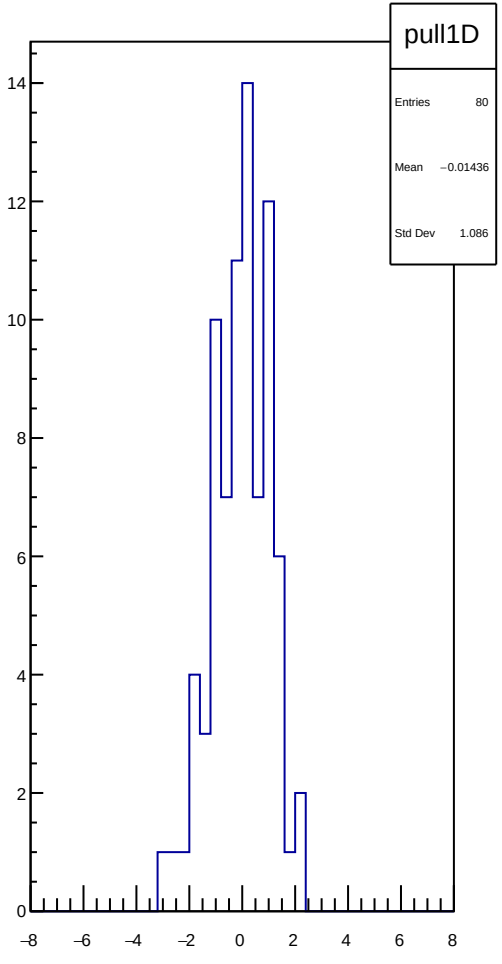

asym_sam5_correction_rms vs run
χ² / ndf 1911 / 79
p0 970.9 ± 0.777
1050
1000
950
900
850

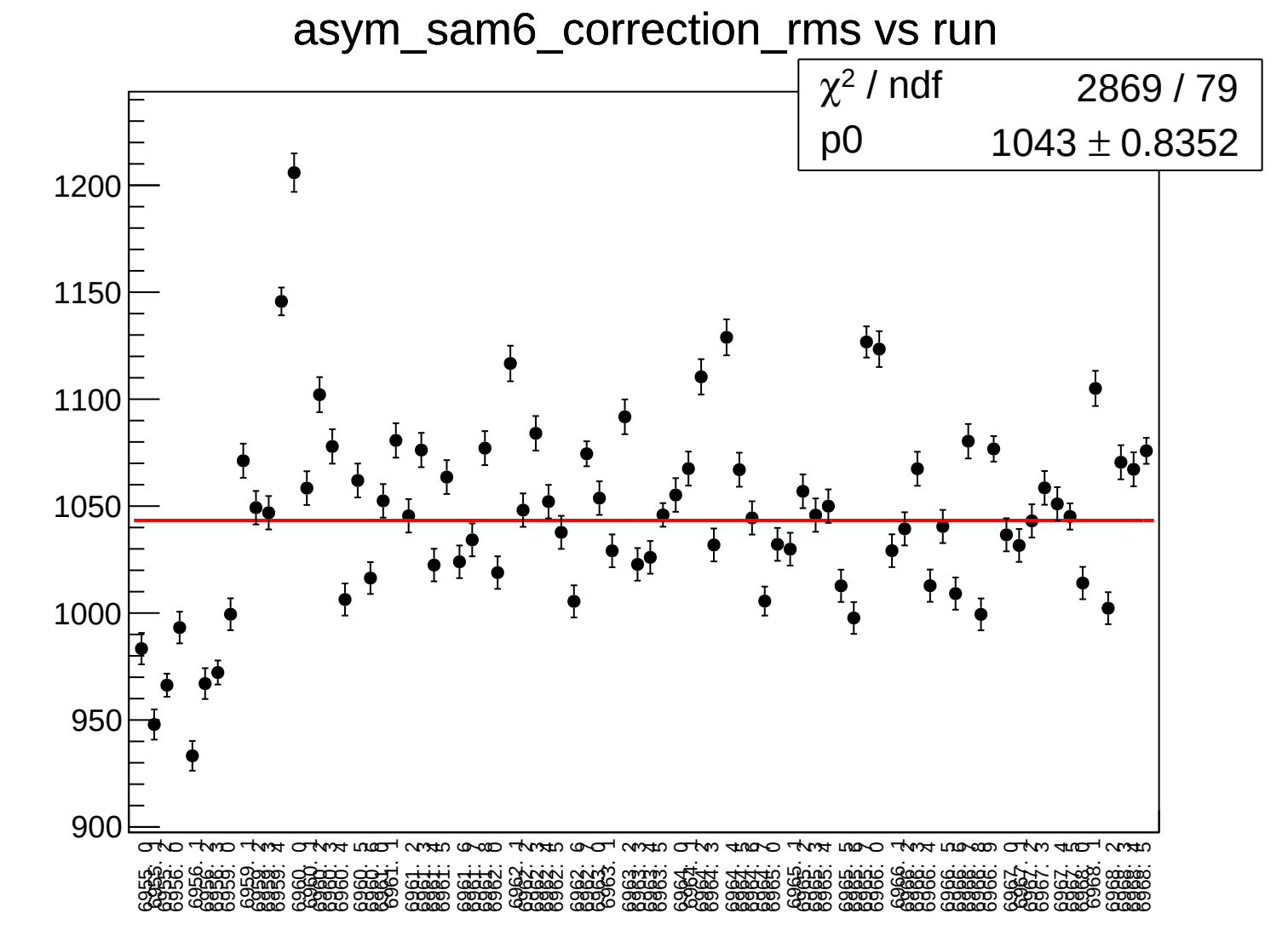

reg_asym_sam6_mean vs run
χ^2 / ndf 97.24 / 79
p0 12.99 ± 177.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 80
Mean −110
Std Dev 146.9
2
1
0
−1
−2

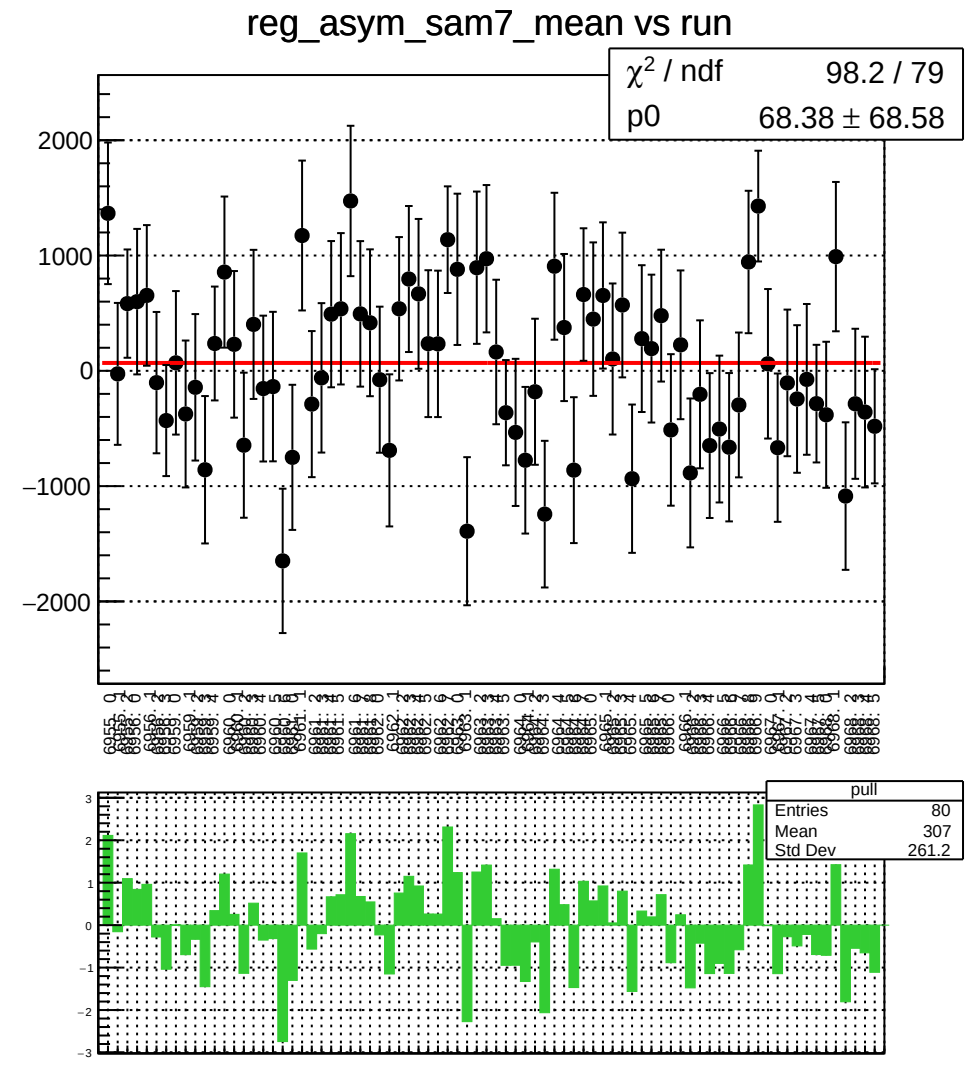

pull1D
Entries 80
Mean −0.007586
Std Dev 1.102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

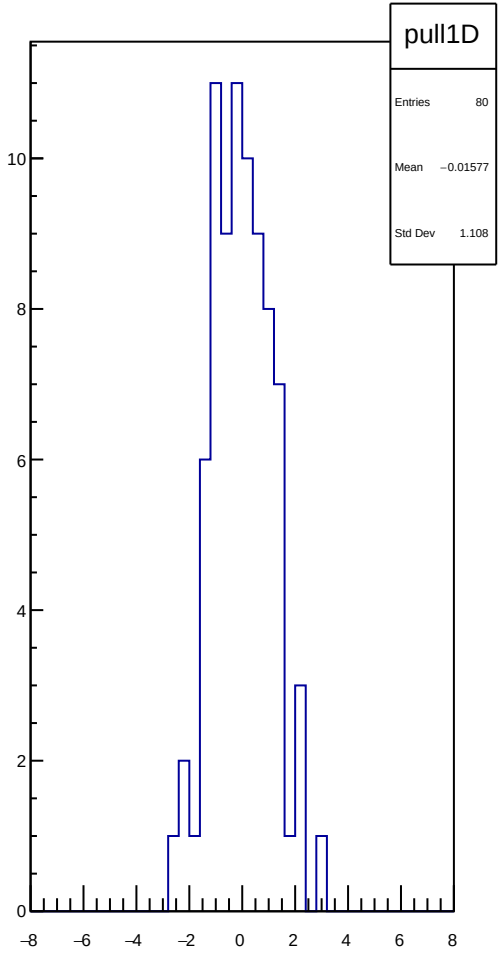

reg_asym_sam6_rms vs run
χ² / ndf 996.6 / 79
p0 156.8 ± 0.1255
165
160
155
150
145

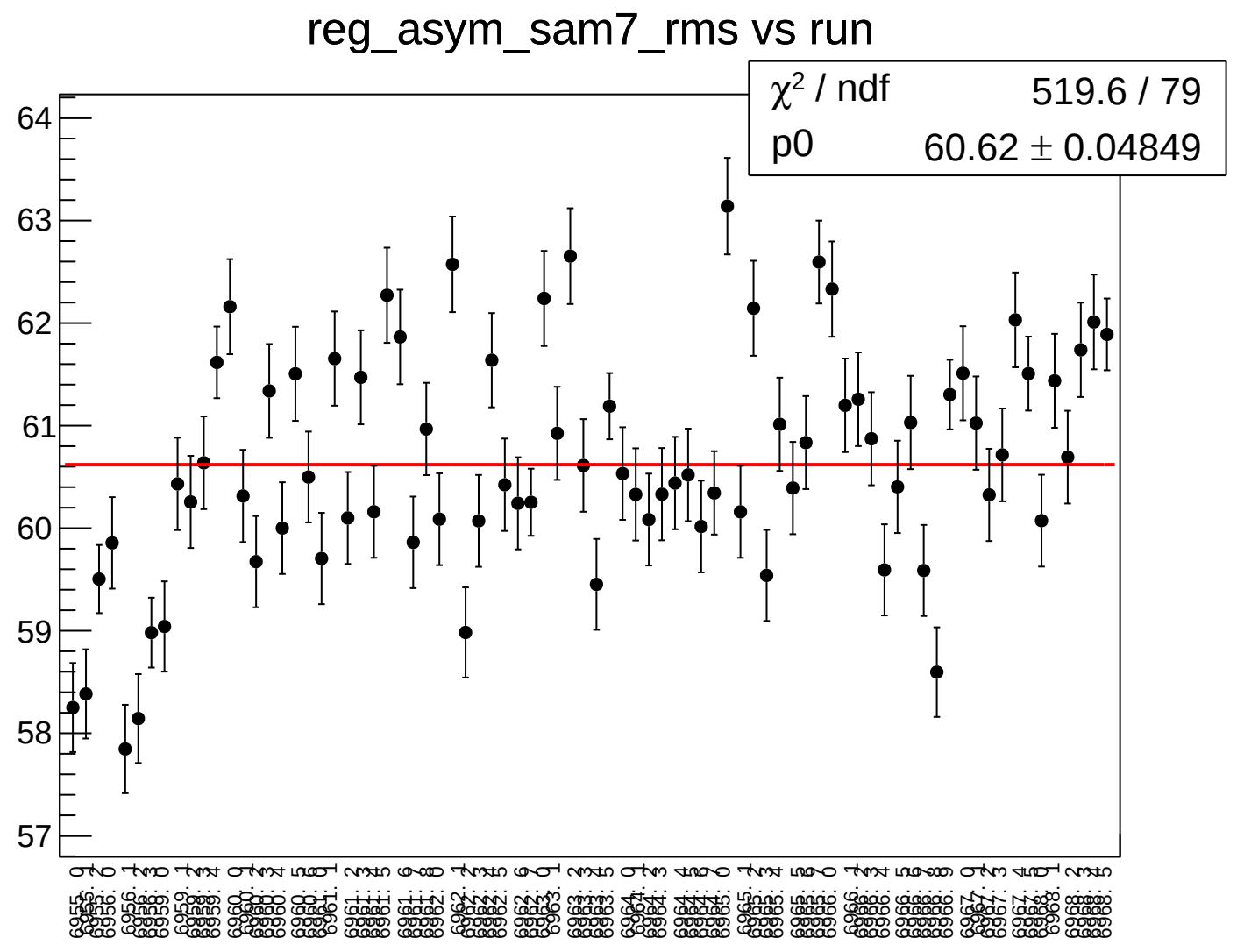

asym_sam6_correction_mean vs run
χ² / ndf 94.42 / 79
p0 −591.7 ± 1181
pull
Entries 80
Mean −187.1
Std Dev 222.2

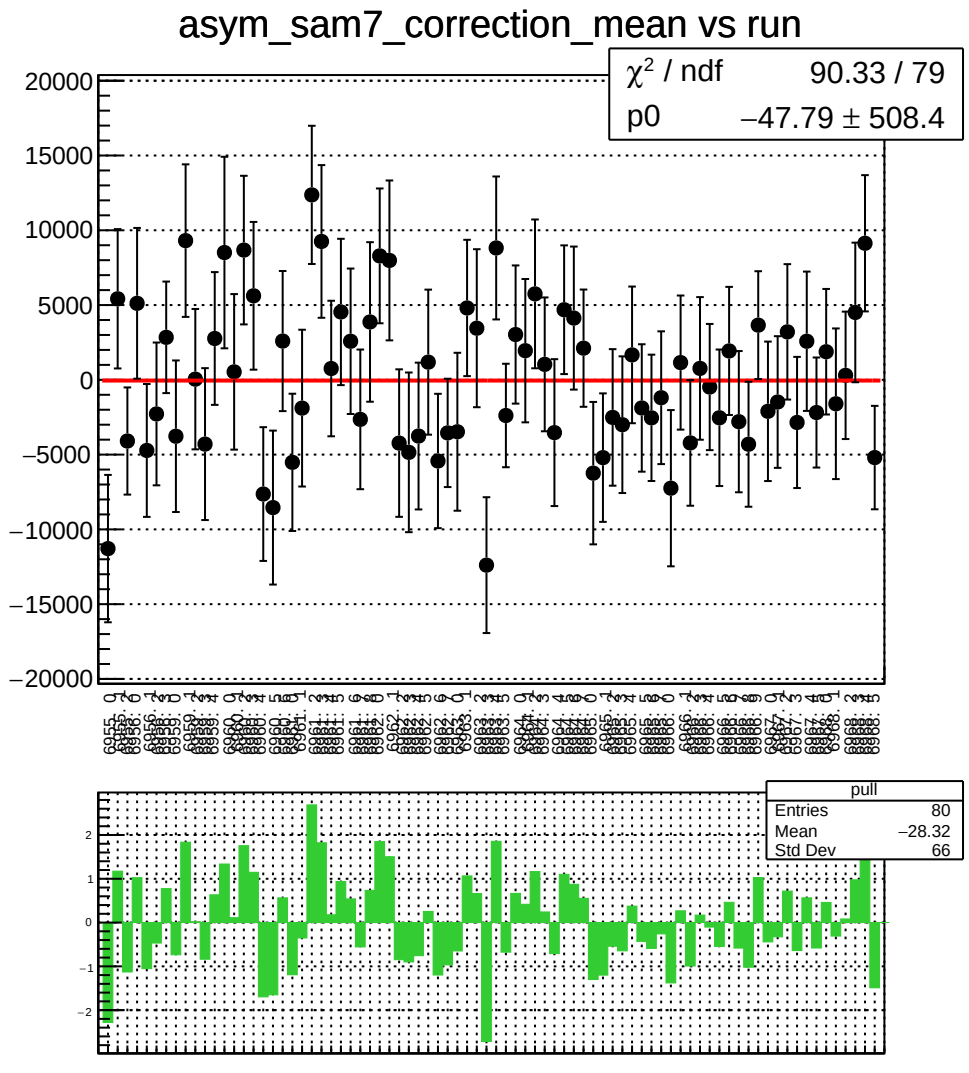

pull1D
Entries 80
Mean −0.01436
Std Dev 1.086

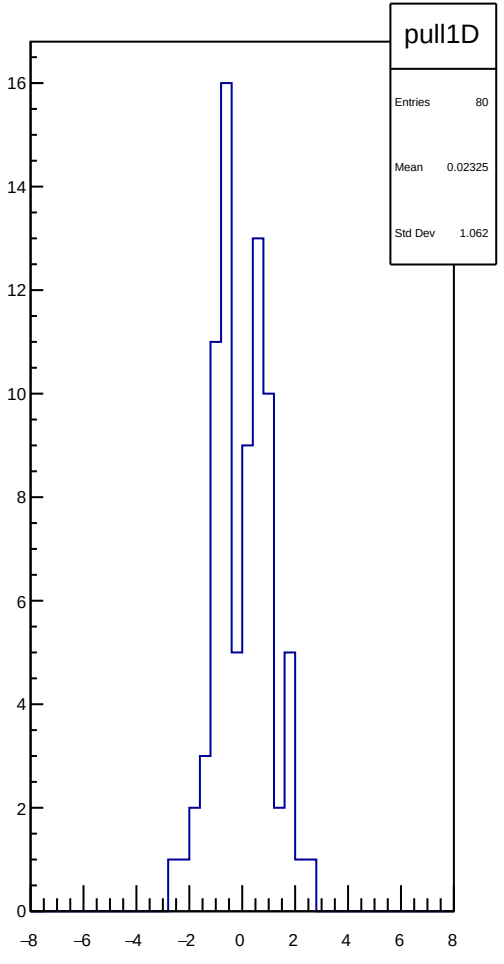

asym_sam6_correction_rms vs run
χ² / ndf 2869 / 79
p0 1043 ± 0.8352
1200
1150
1100
1050
1000
950
900

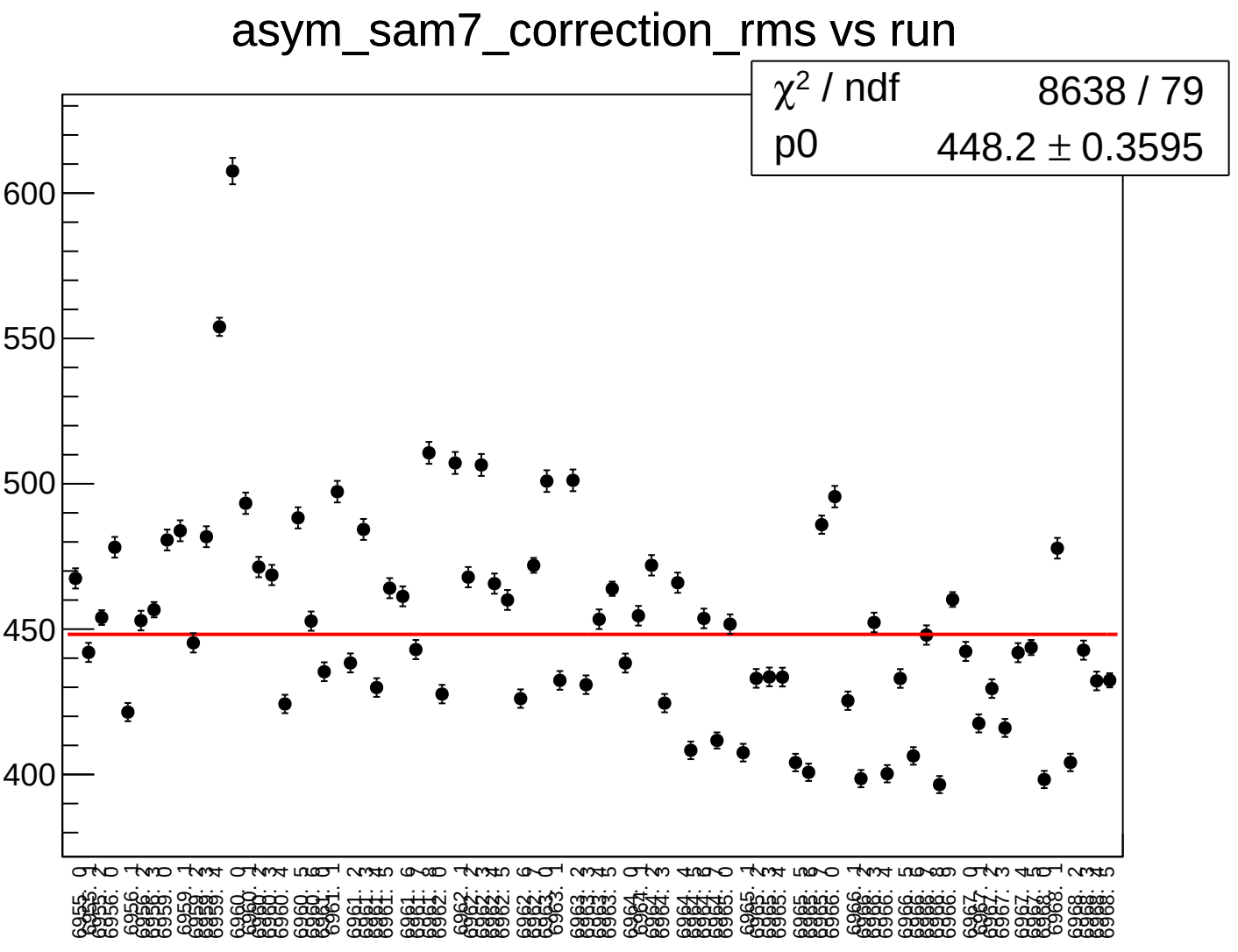

reg_asym_sam7_mean vs run
χ² / ndf 98.2 / 79
p0 68.38 ± 68.58
2000
1000
0
−1000
−2000
pull
Entries 80
Mean 307
Std Dev 261.2
3
2
1
0
−1
−2
−3

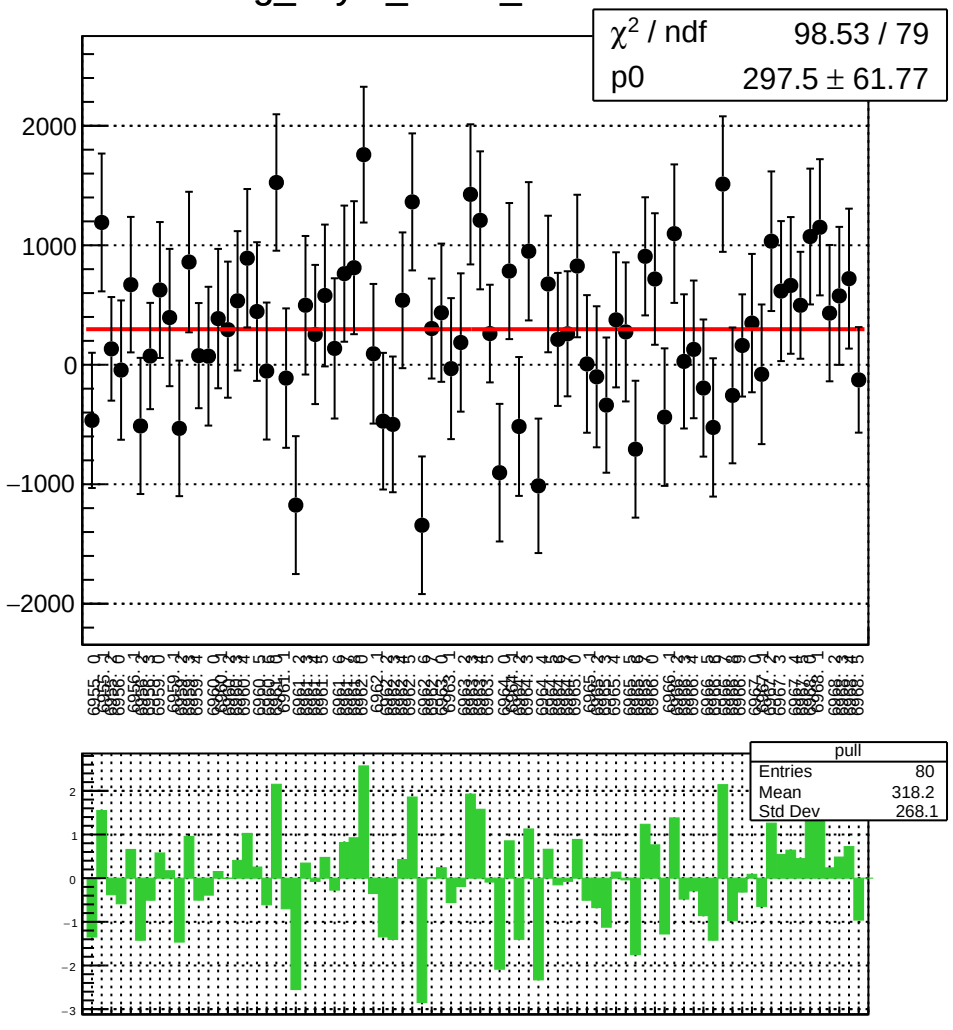

pull1D
Entries 80
Mean −0.01577
Std Dev 1.108
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

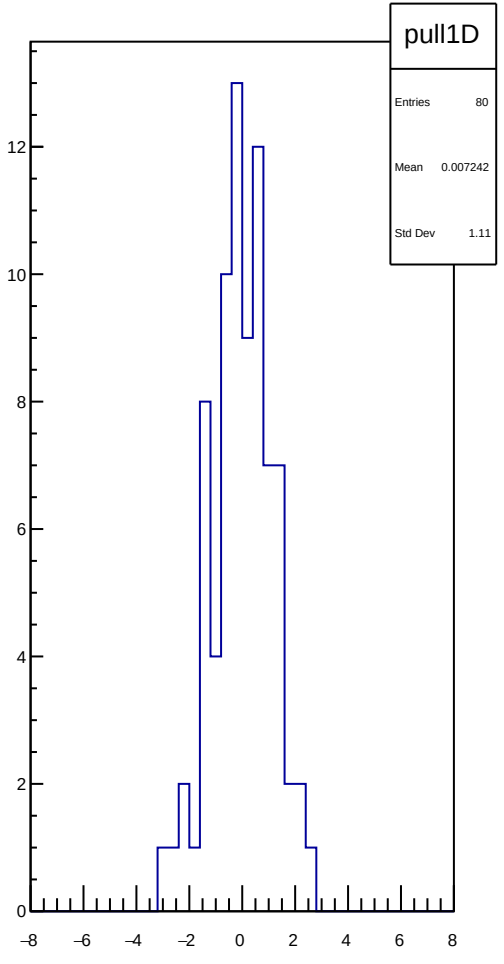

reg_asym_sam7_rms vs run
χ² / ndf 519.6 / 79
p0 60.62 ± 0.04849
64
63
62
61
60
59
58
57

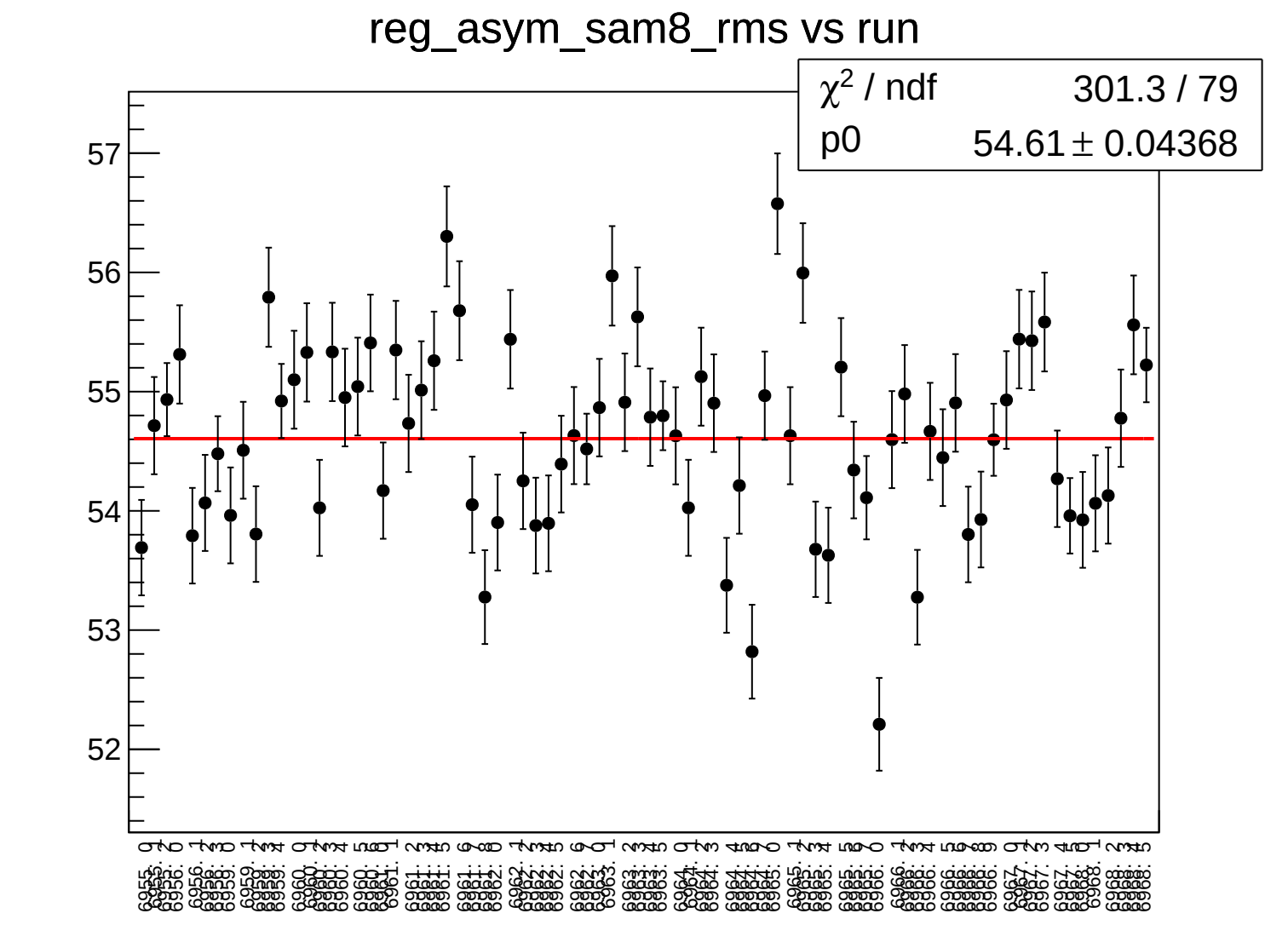

asym_sam7_correction_mean vs run
χ² / ndf 90.33 / 79
p0 −47.79 ± 508.4
pull
Entries 80
Mean −28.32
Std Dev 66

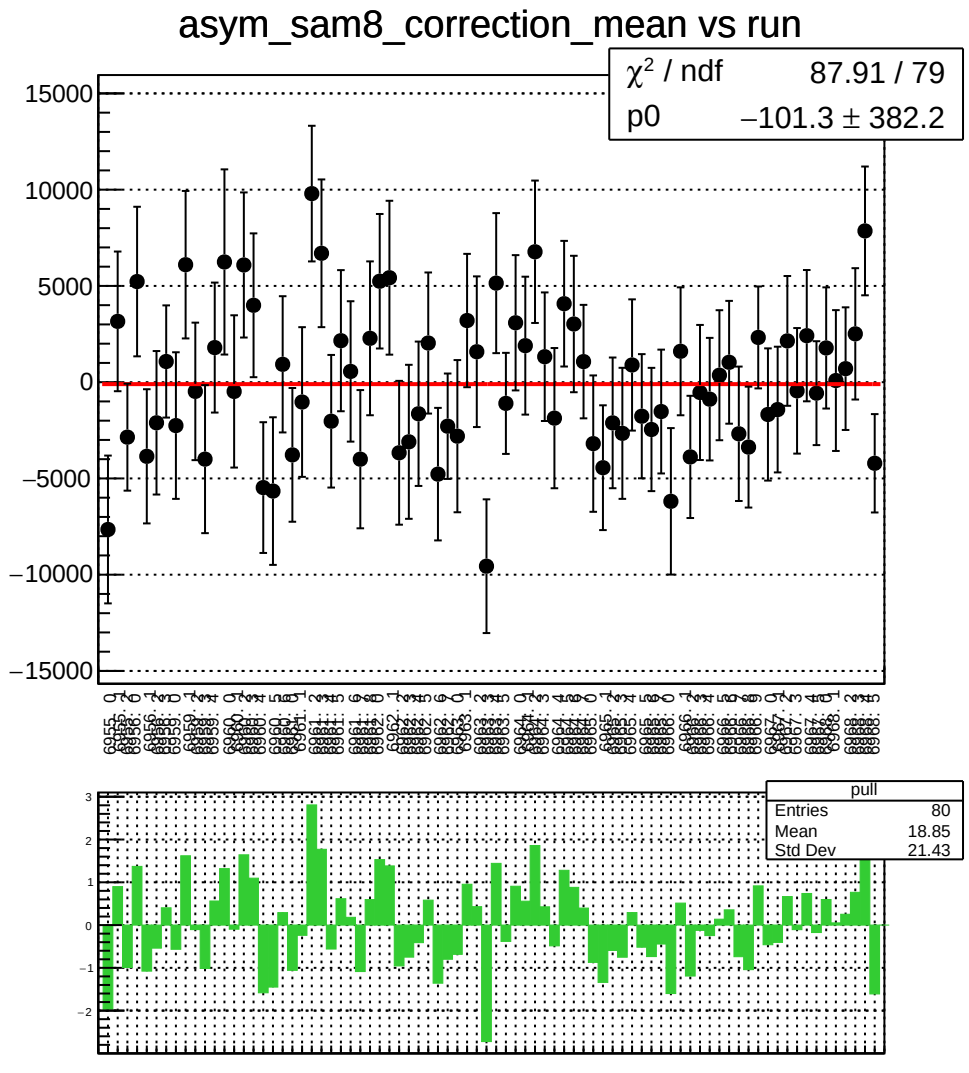

pull1D
Entries 80
Mean 0.02325
Std Dev 1.062

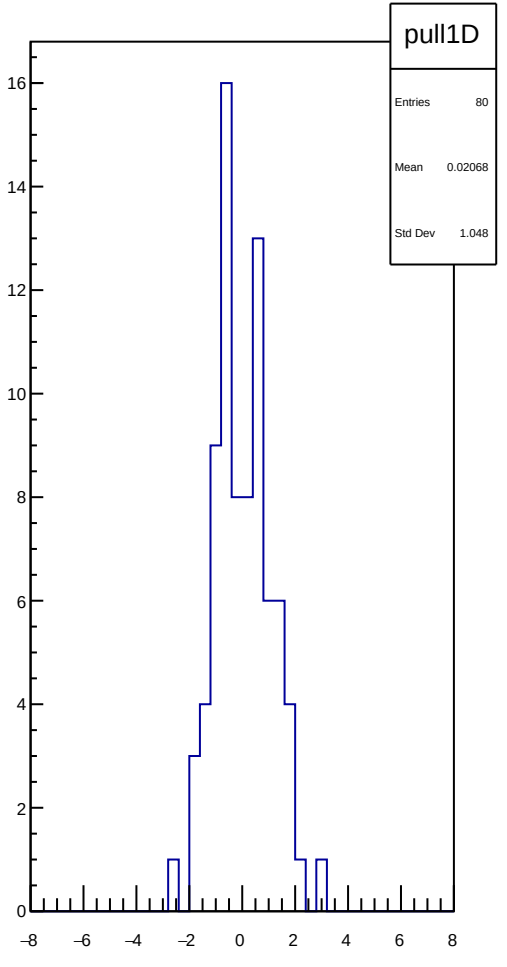

asym_sam7_correction_rms vs run
χ^2 / ndf 8638 / 79
p0 448.2 ± 0.3595
600
550
500
450
400

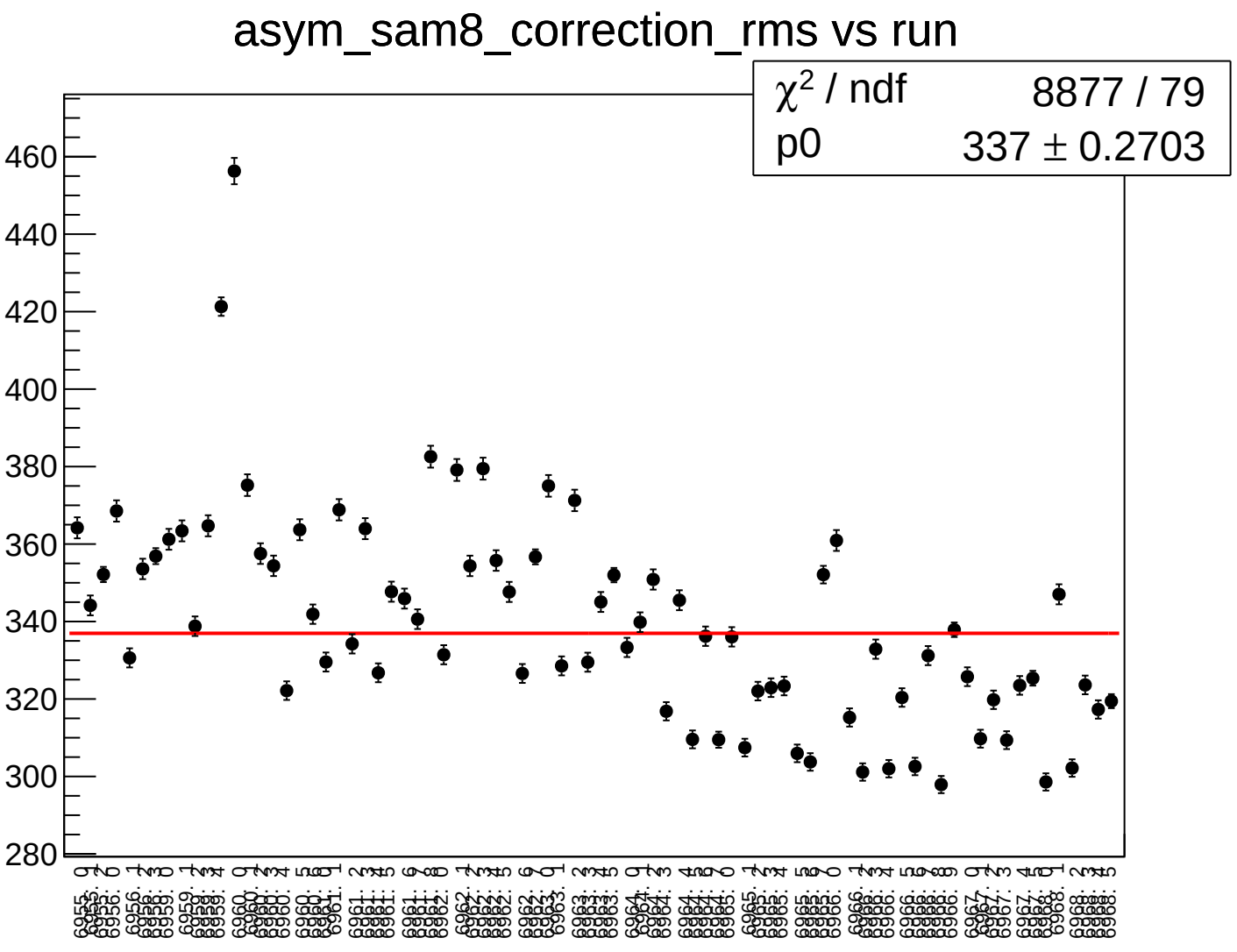

reg_asym_sam8_mean vs run
χ² / ndf 98.53 / 79
p0 297.5 ± 61.77
2000
1000
0
−1000
−2000
pull
Entries 80
Mean 318.2
Std Dev 268.1
2
1
0
−1
−2
−3

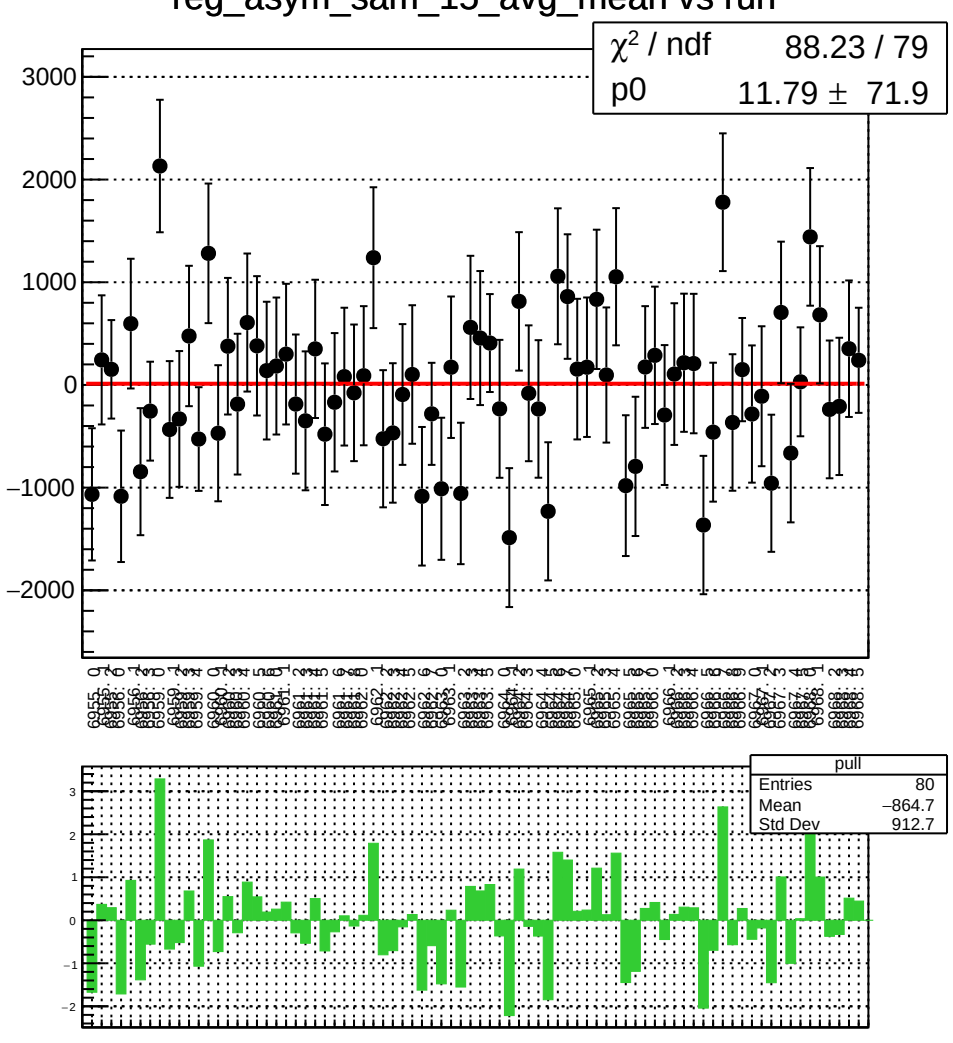

pull1D
Entries 80
Mean 0.007242
Std Dev 1.11
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

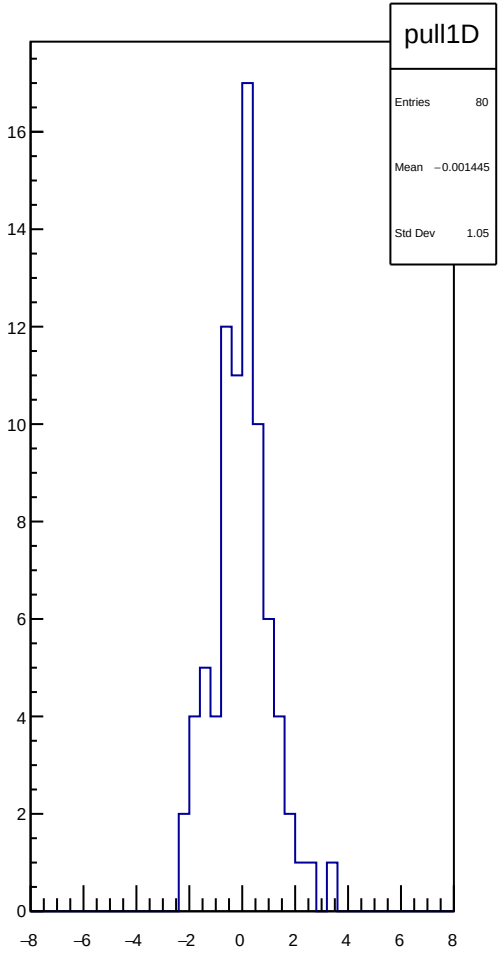

reg_asym_sam8_rms vs run
χ² / ndf 301.3 / 79
p0 54.61 ± 0.04368
57
56
55
54
53
52

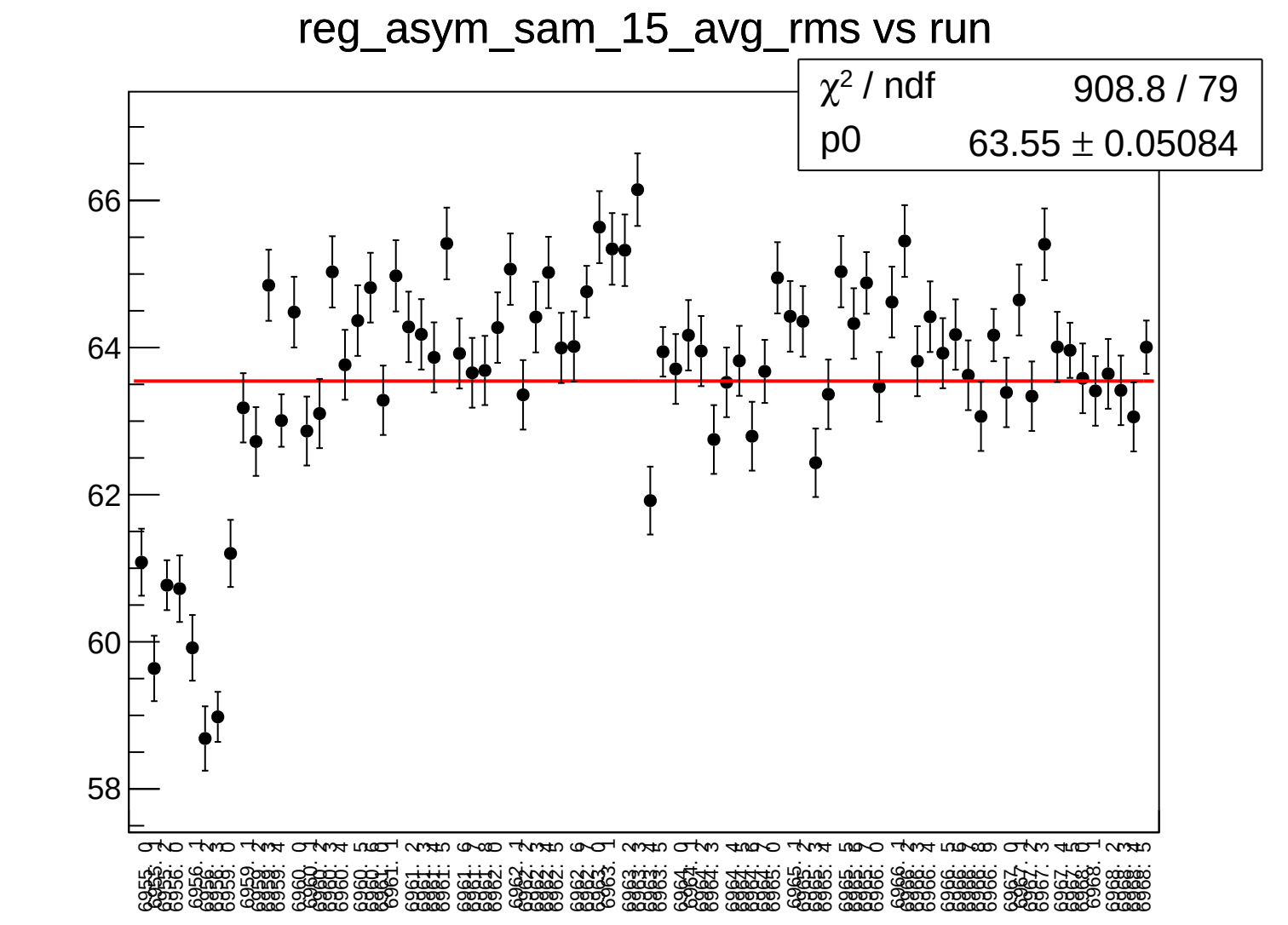

asym_sam8_correction_mean vs run
χ² / ndf 87.91 / 79
p0 −101.3 ± 382.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 80
Mean 18.85
Std Dev 21.43
3
2
1
0
−1
−2

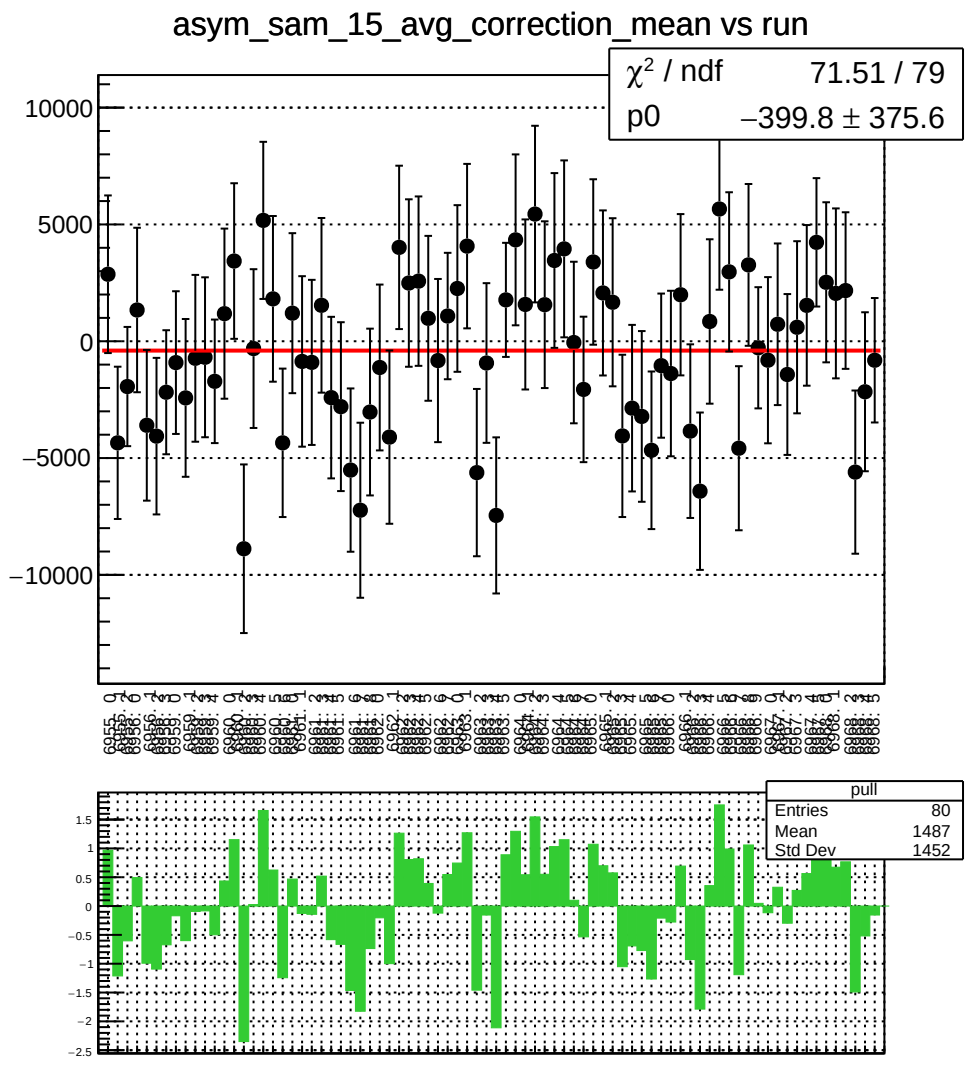

pull1D
Entries 80
Mean 0.02068
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

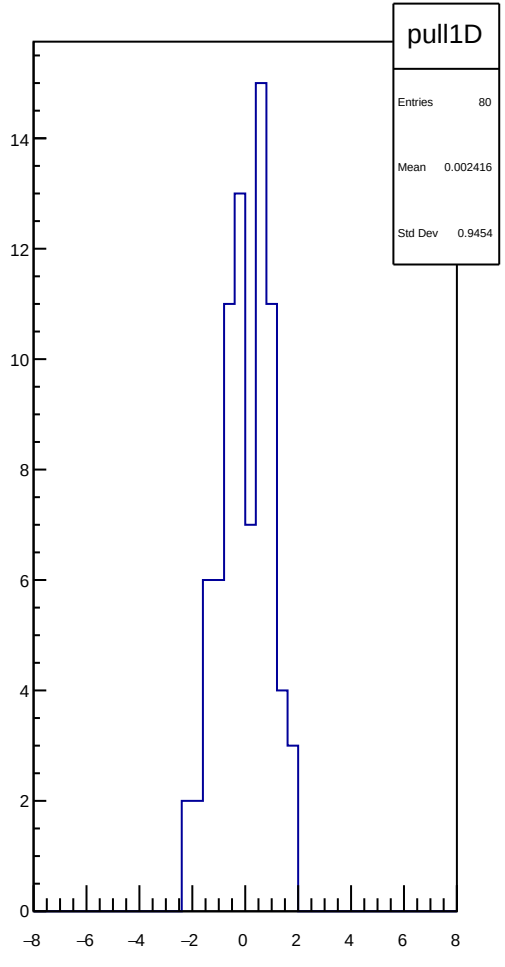

asym_sam8_correction_rms vs run
χ² / ndf 8877 / 79
p0 337 ± 0.2703
460
440
420
400
380
360
340
320
300
280

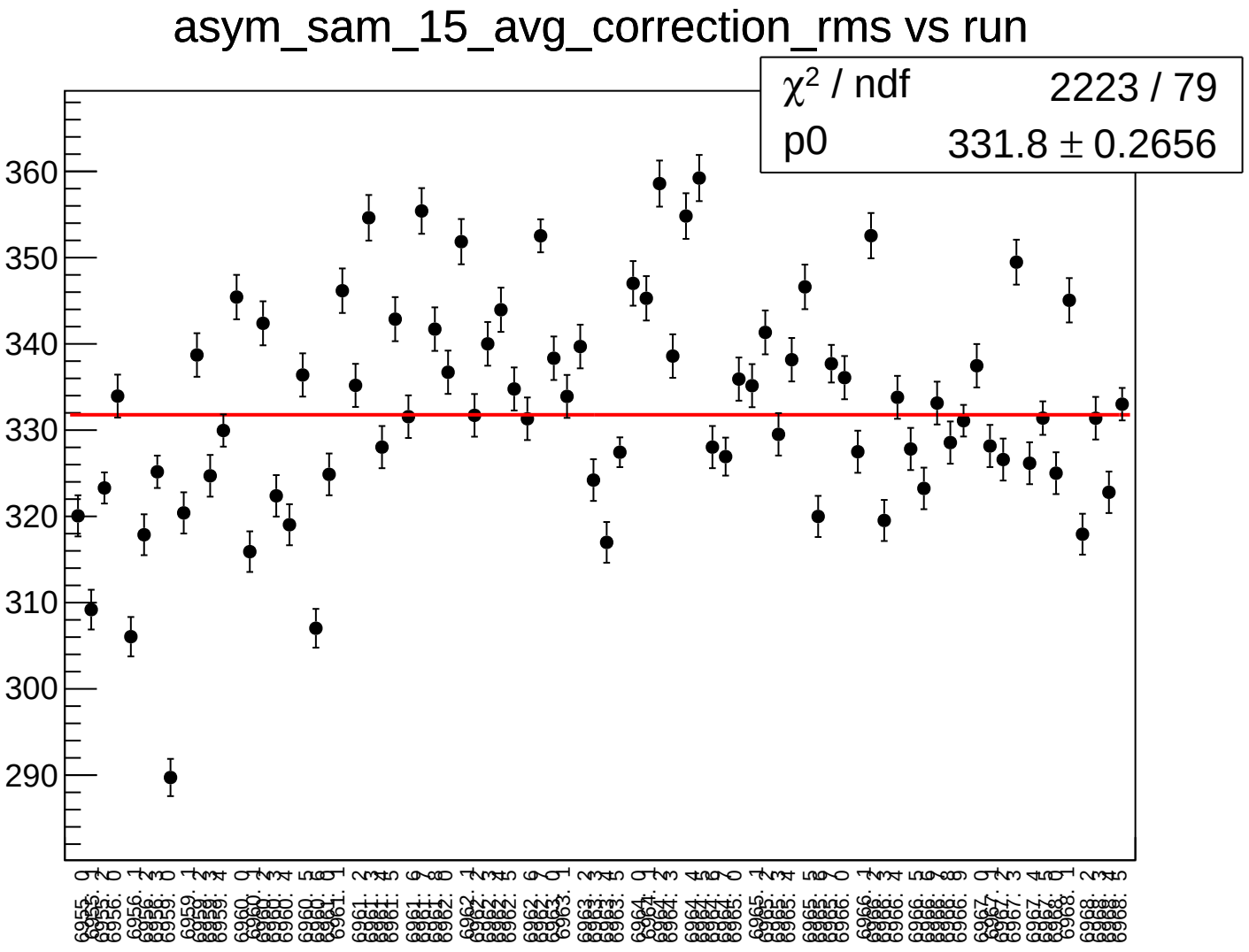

reg_asym_sam_15_avg_mean vs run
χ² / ndf 88.23 / 79
p0 11.79 ± 71.9
pull
Entries 80
Mean −864.7
Std Dev 912.7

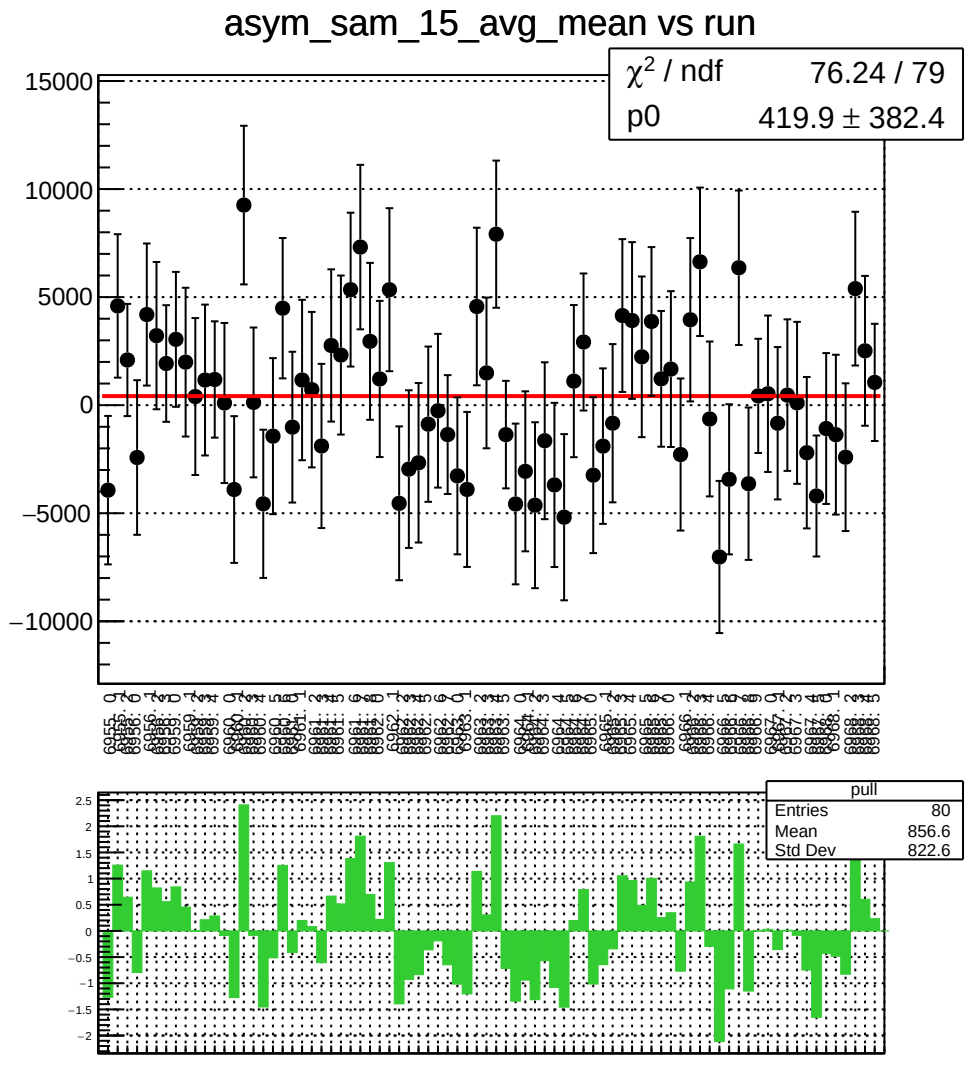

pull1D
Entries 80
Mean −0.001445
Std Dev 1.05

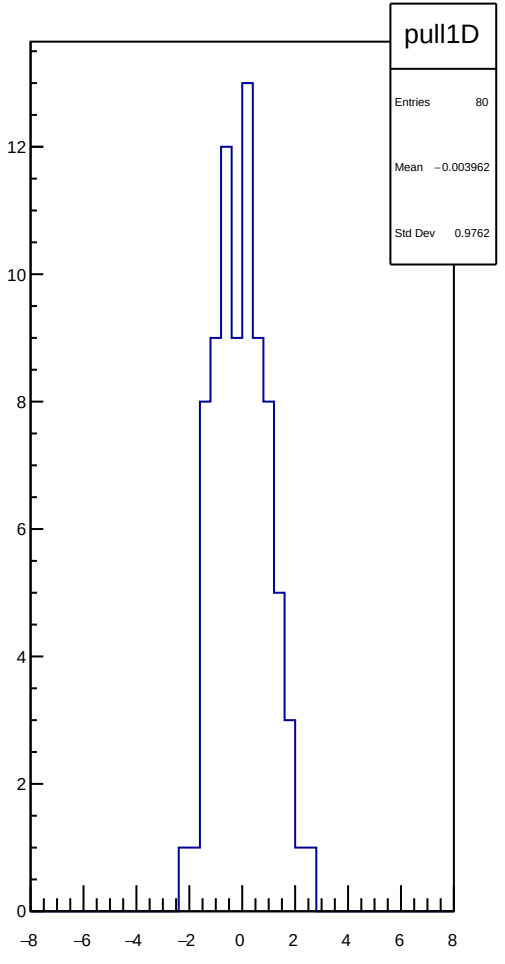

reg_asym_sam_15_avg_rms vs run
χ² / ndf 908.8 / 79
p0 63.55 ± 0.05084
66
64
62
60
58

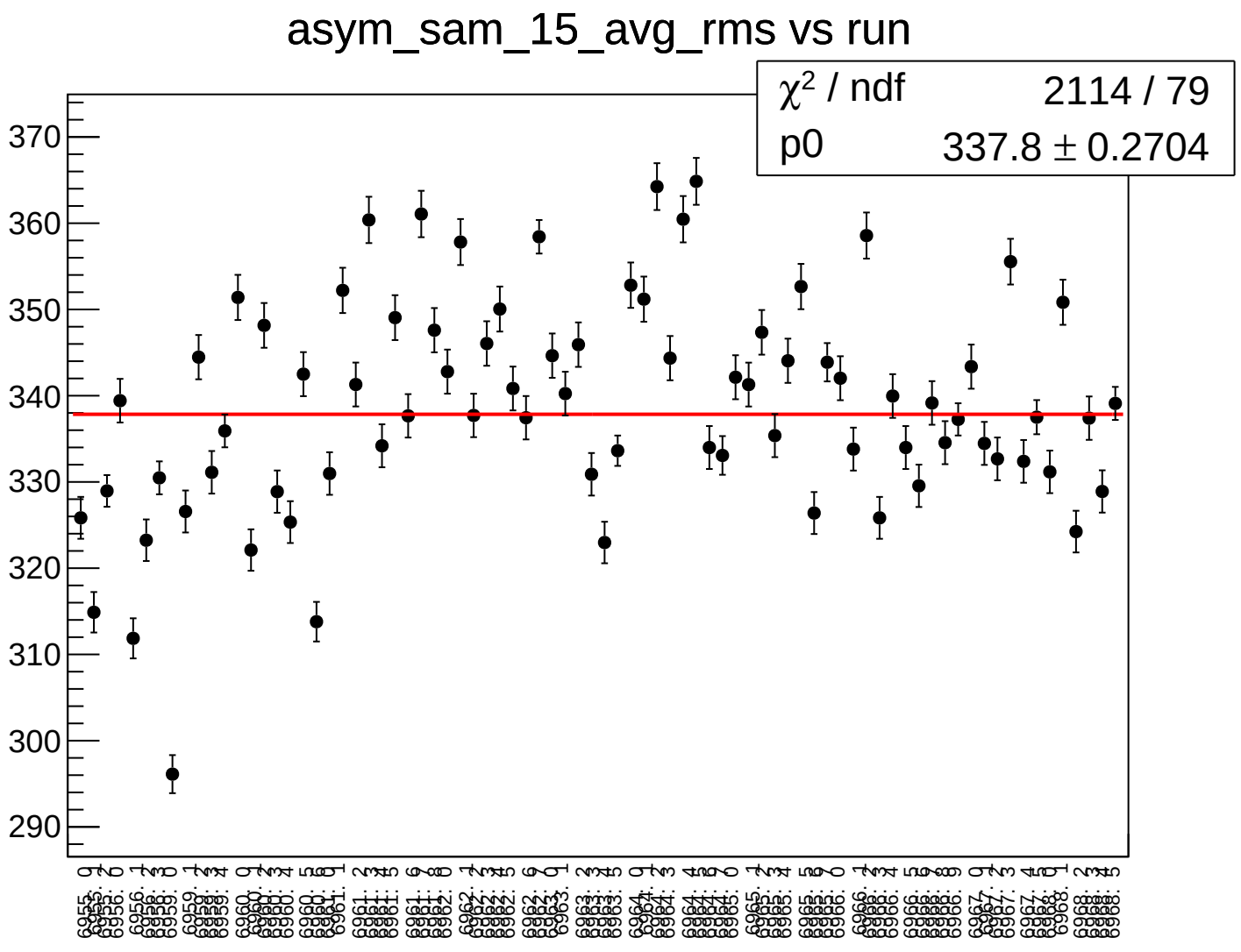

asym_sam_15_avg_correction_mean vs run
χ² / ndf 71.51 / 79
p0 −399.8 ± 375.6
10000
5000
0
−5000
−10000
pull
Entries 80
Mean 1487
Std Dev 1452
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

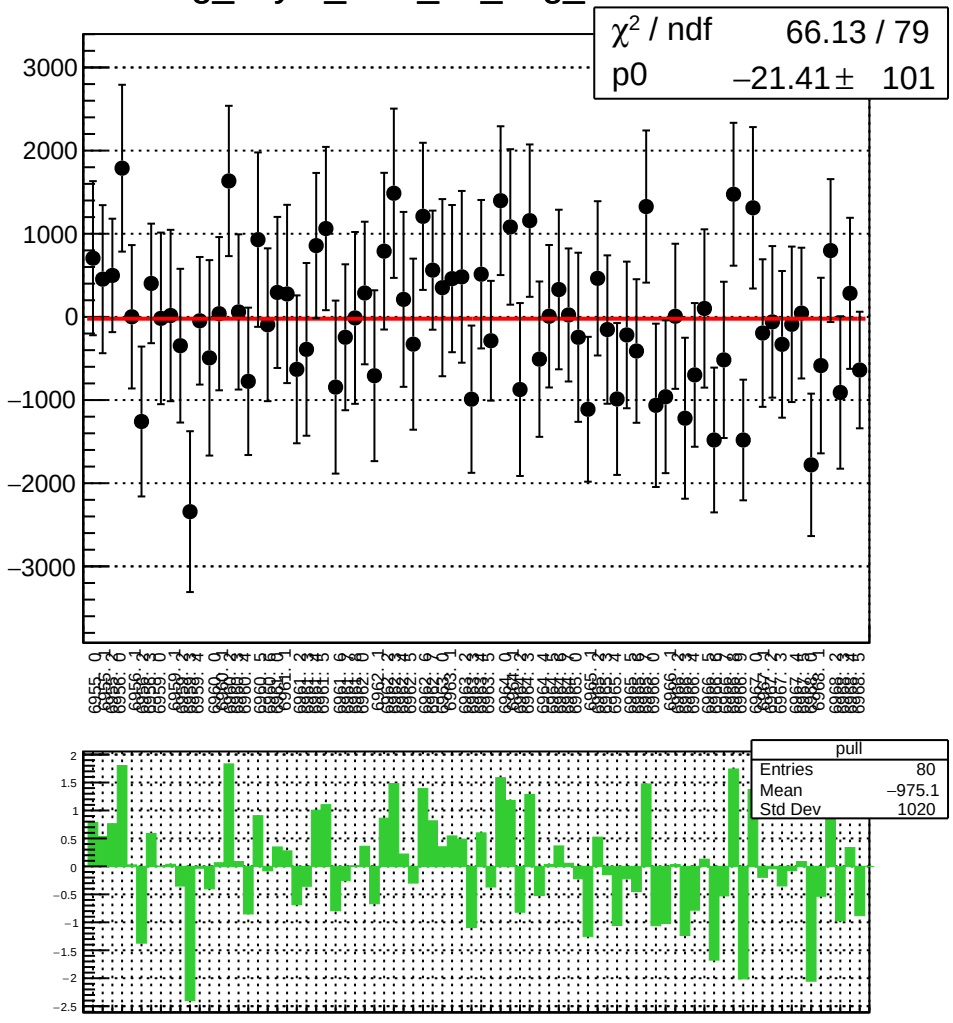

pull1D
Entries 80
Mean 0.002416
Std Dev 0.9454
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

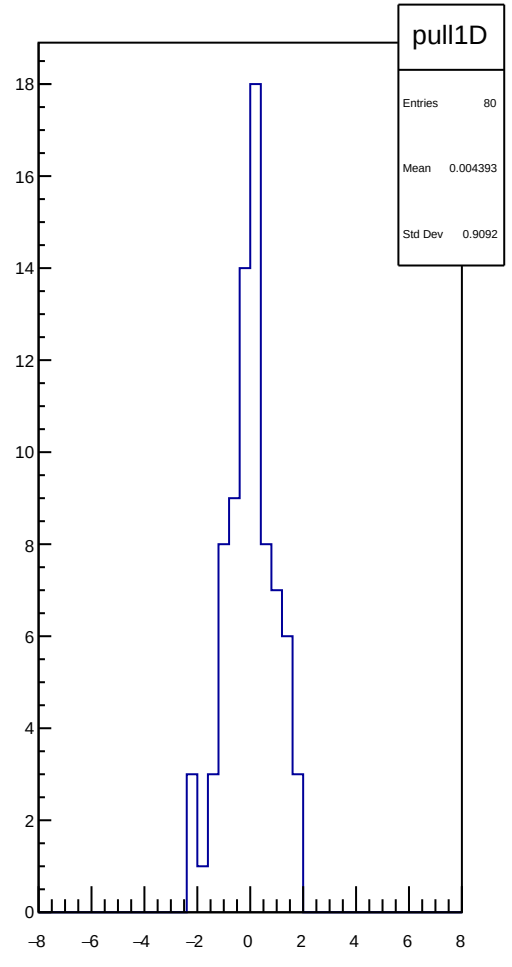

asym_sam_15_avg_correction_rms vs run
χ^2 / ndf 2223 / 79
p0 331.8 ± 0.2656
360
350
340
330
320
310
300
290

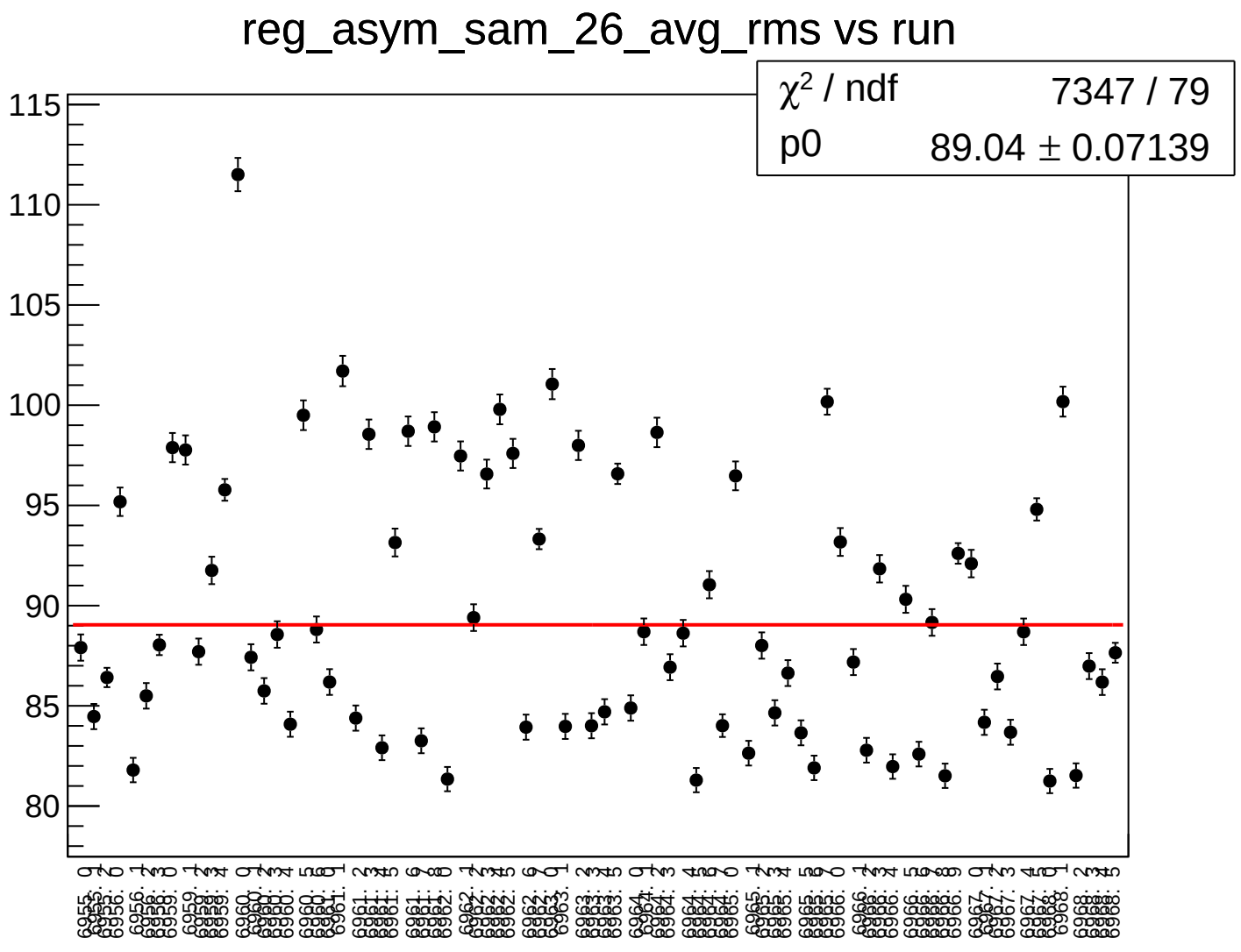

asym_sam_15_avg_mean vs run
χ² / ndf 76.24 / 79
p0 419.9 ± 382.4
15000
10000
5000
0
−5000
−10000
pull
Entries 80
Mean 856.6
Std Dev 822.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

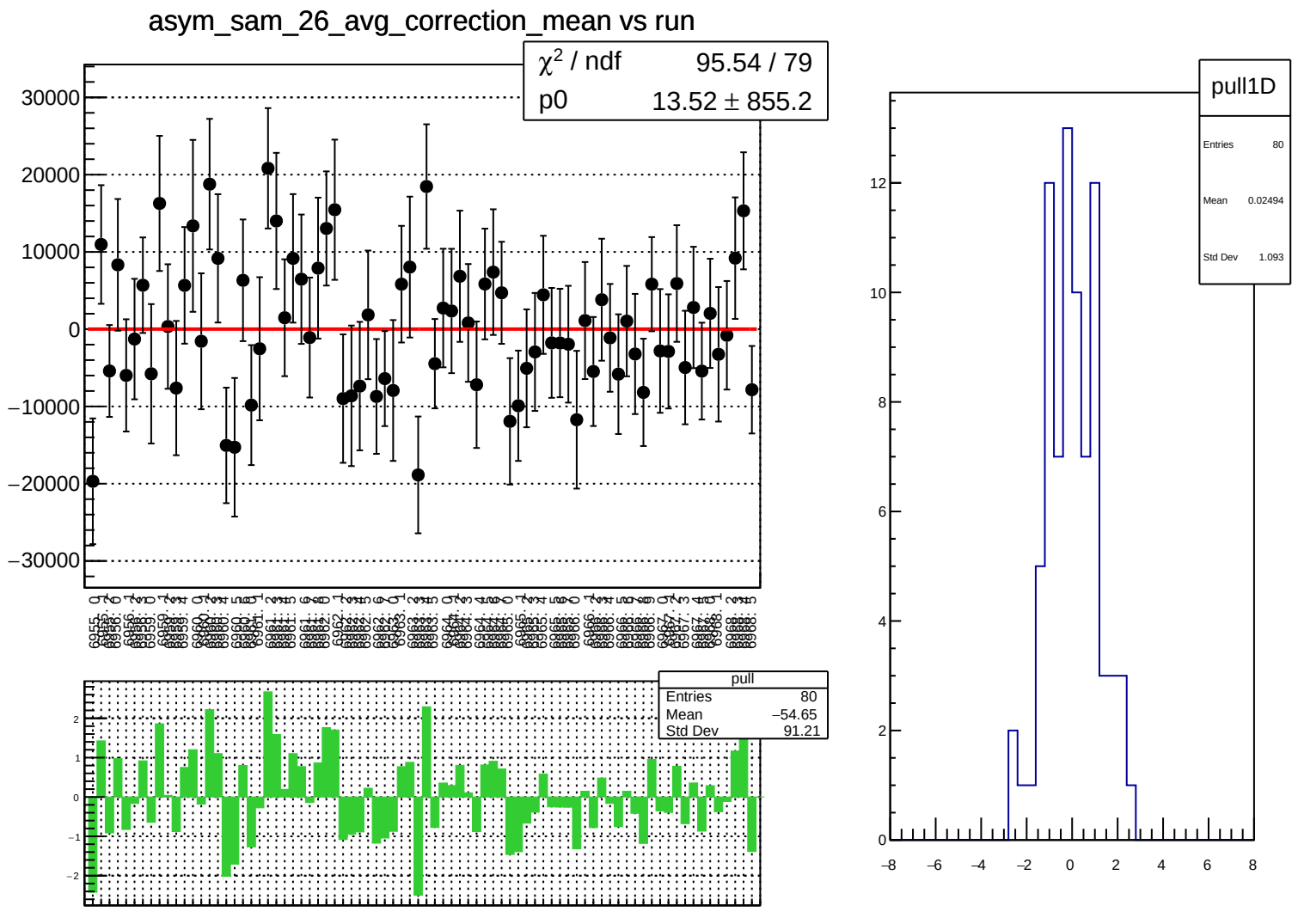

pull1D
Entries 80
Mean −0.003962
Std Dev 0.9762
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

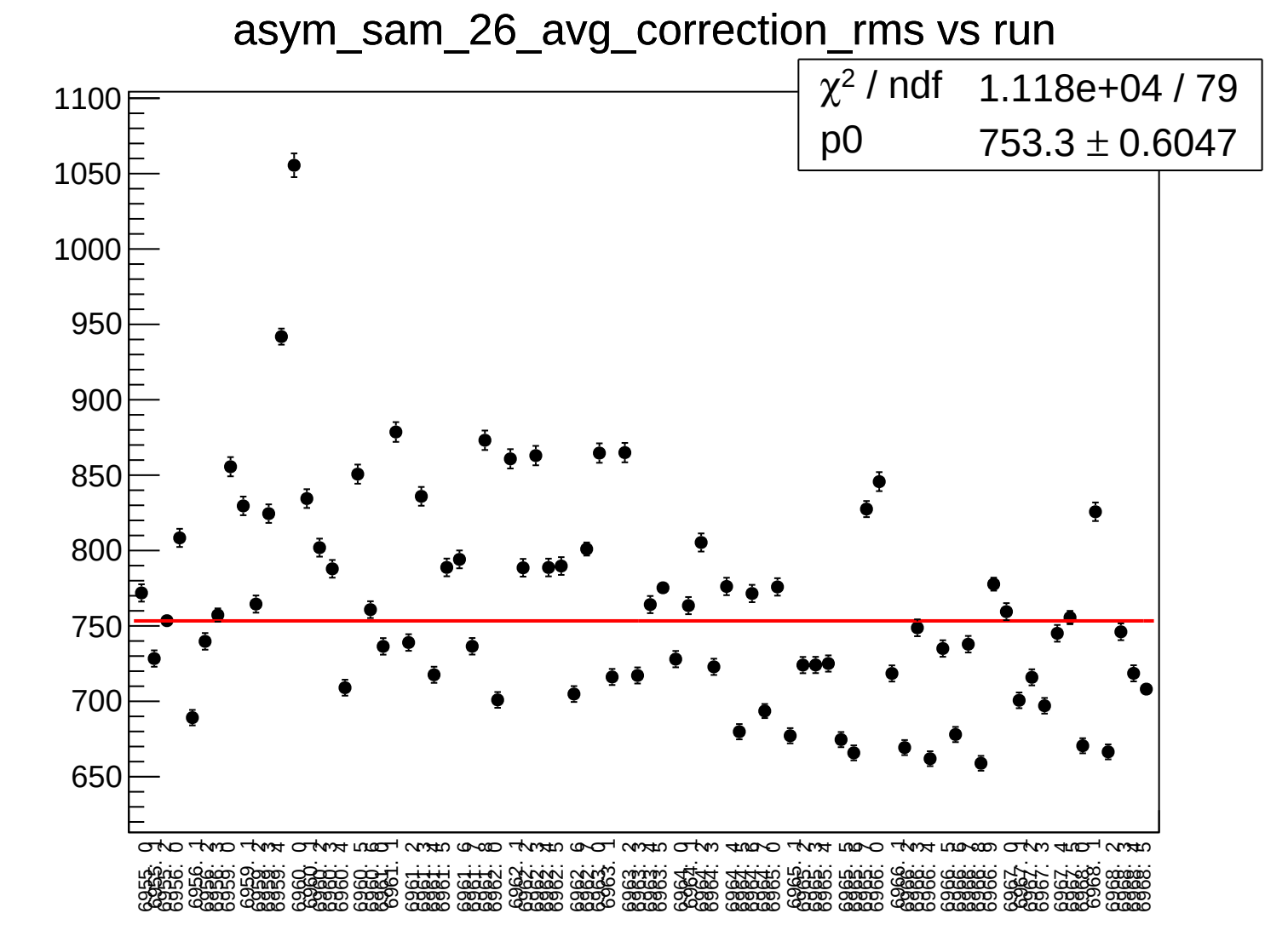

asym_sam_15_avg_rms vs run
χ² / ndf 2114 / 79
p0 337.8 ± 0.2704
370
360
350
340
330
320
310
300
290

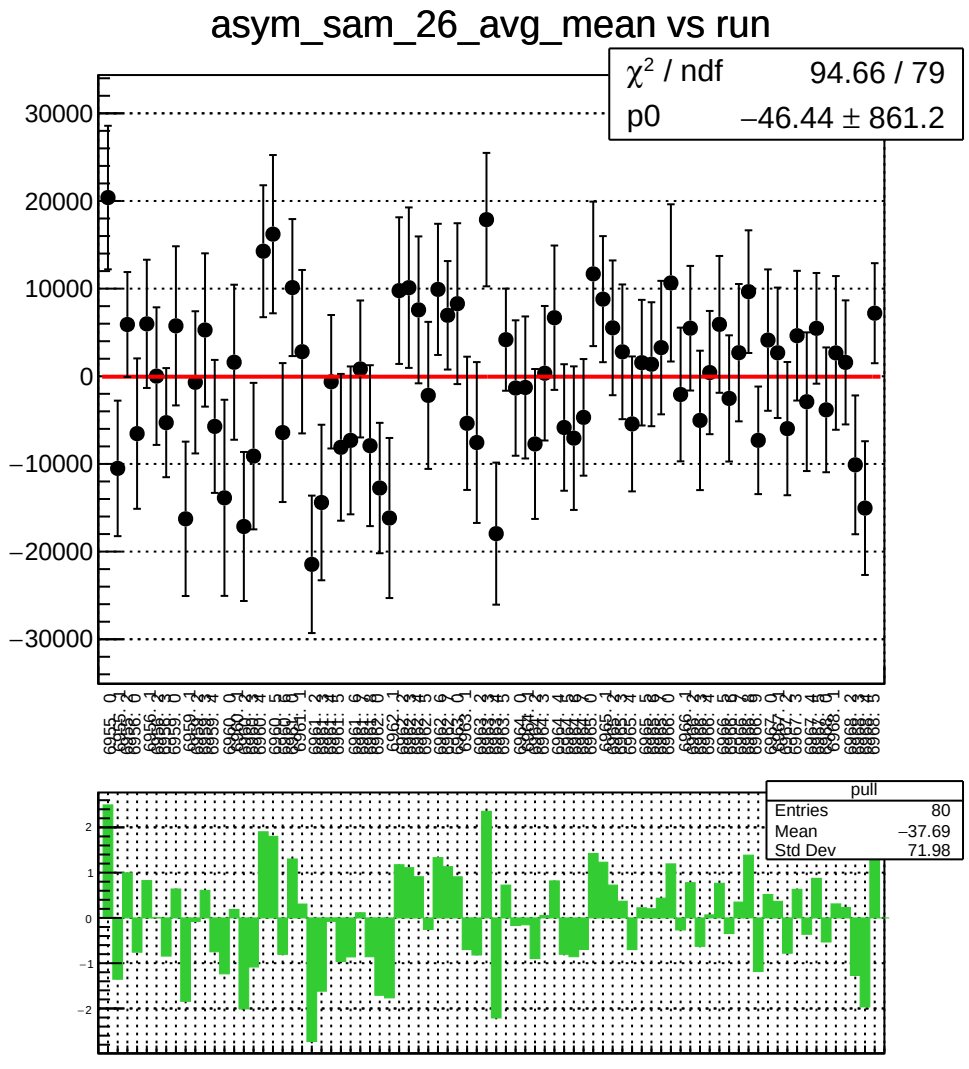

reg_asym_sam_26_avg_mean vs run
χ² / ndf 66.13 / 79
p0 −21.41 ± 101
pull
Entries 80
Mean −975.1
Std Dev 1020

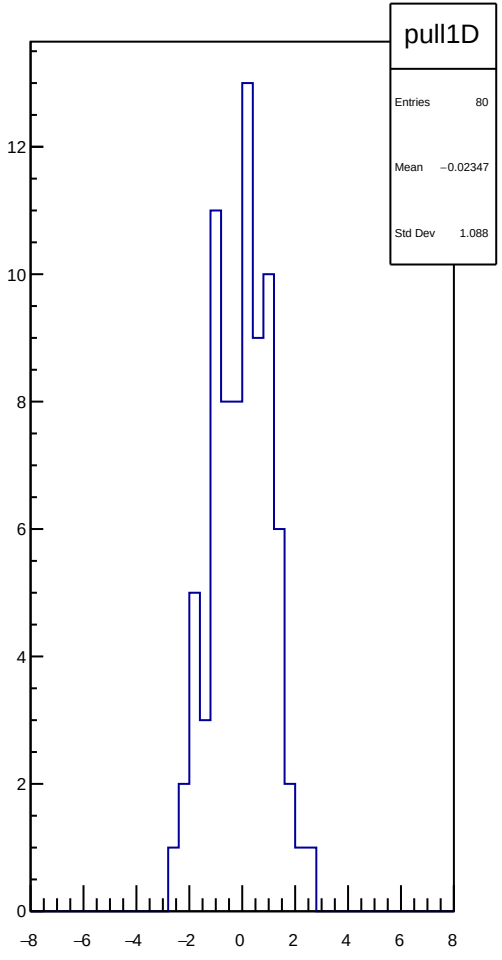

pull1D
Entries 80
Mean 0.004393
Std Dev 0.9092

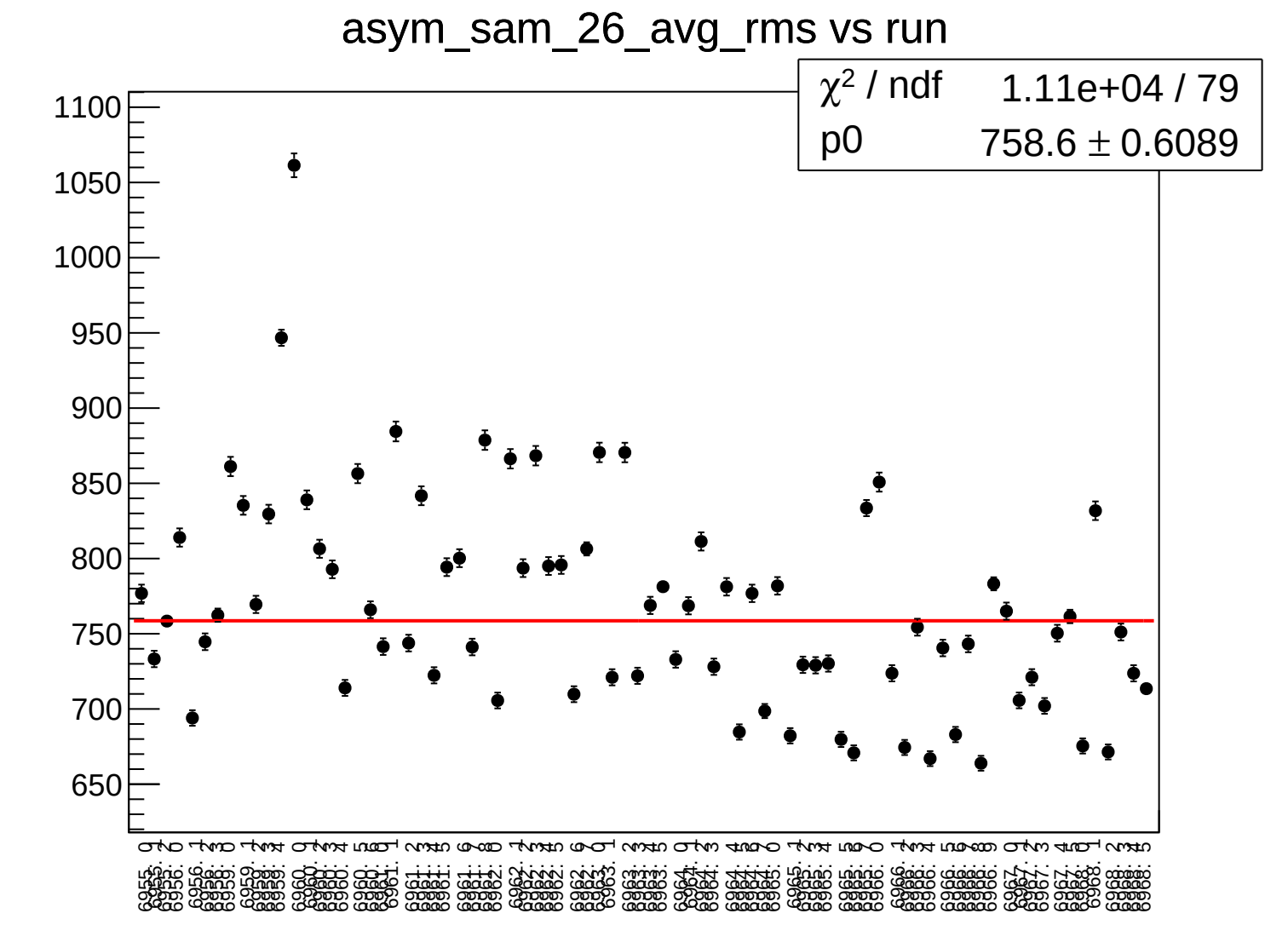

reg_asym_sam_26_avg_rms vs run
χ² / ndf 7347 / 79
p0 89.04 ± 0.07139
115
110
105
100
95
90
85
80

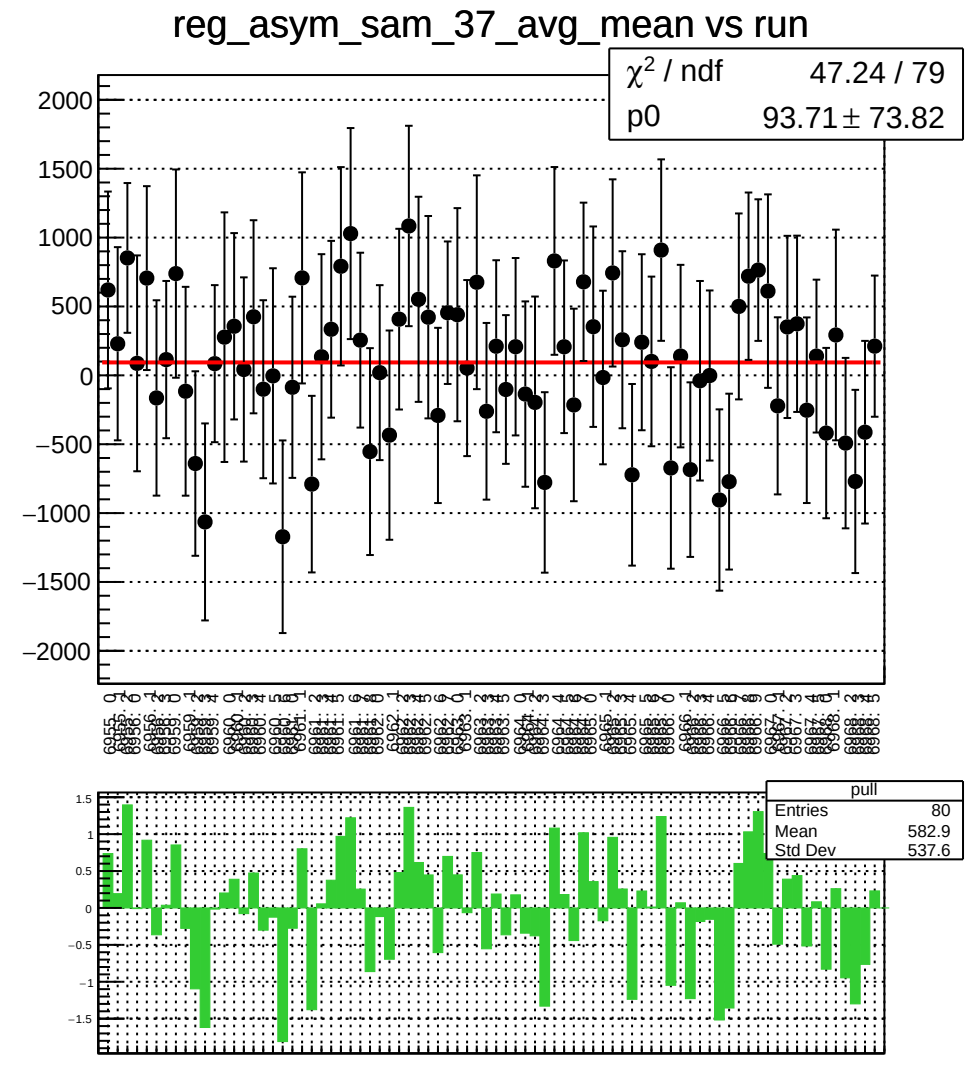

asym_sam_26_avg_correction_mean vs run
χ² / ndf 95.54 / 79
p0 13.52 ± 855.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 80
Mean −54.65
Std Dev 91.21
2
1
0
−1
−2
pull1D
Entries 80
Mean 0.02494
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

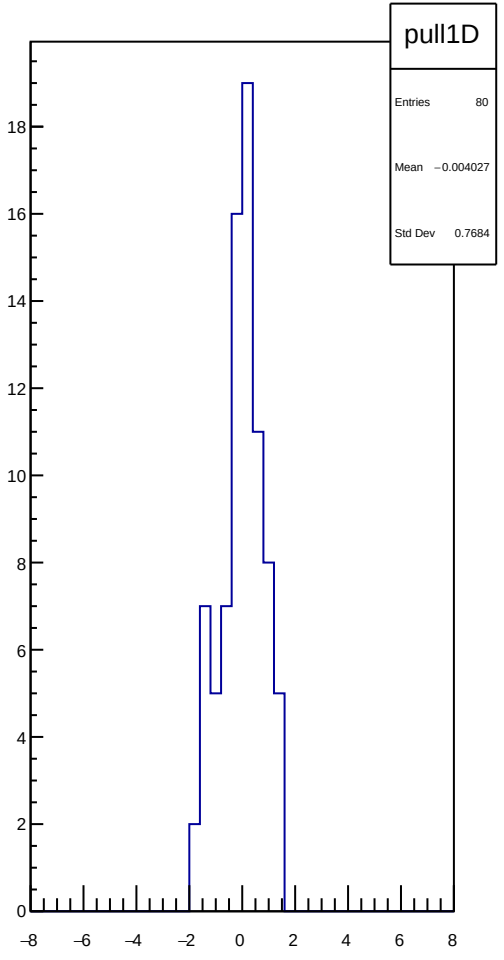

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1.118e+04 / 79
p0 753.3 ± 0.6047
1100
1050
1000
950
900
850
800
750
700
650

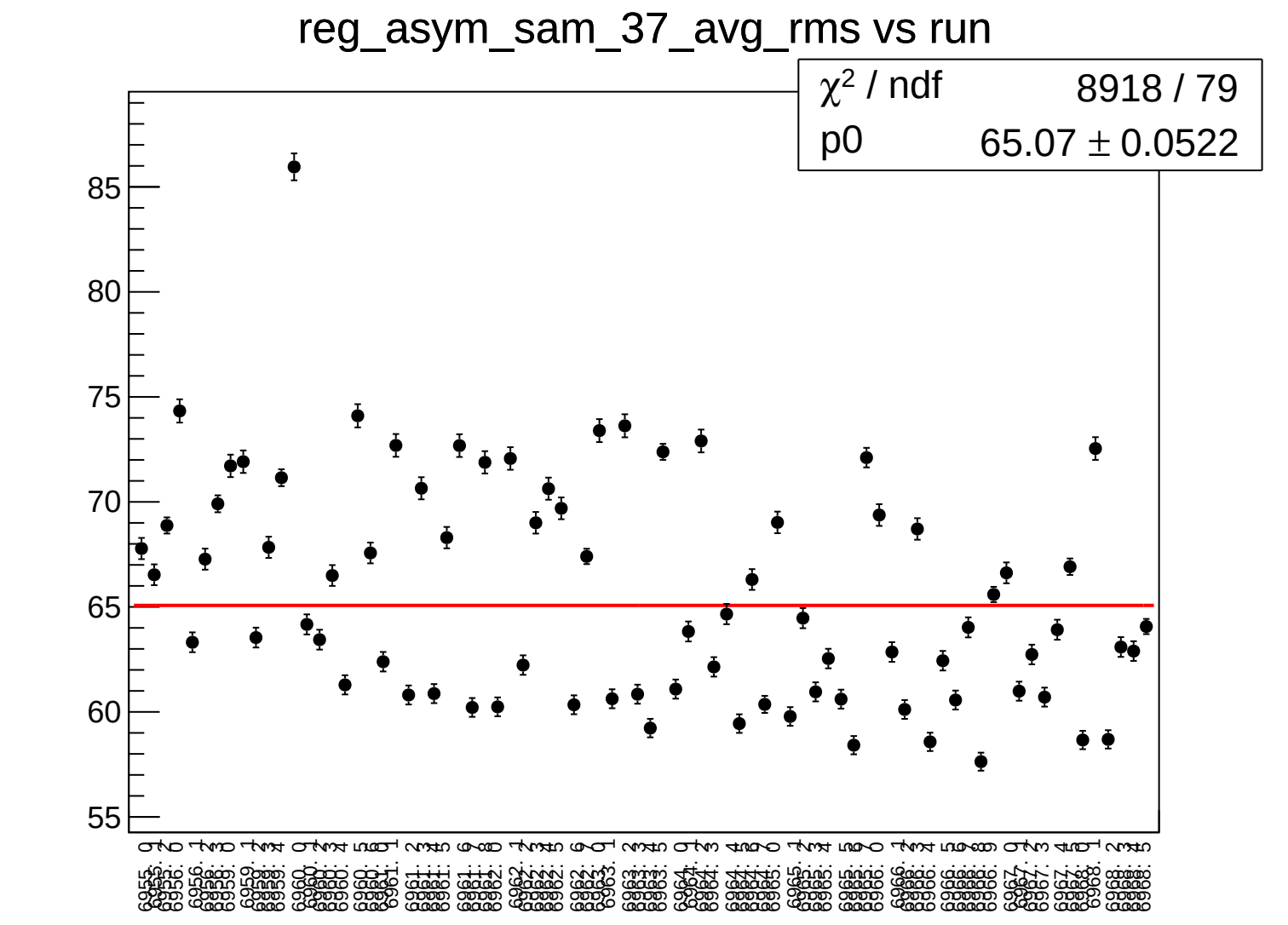

asym_sam_26_avg_mean vs run
χ² / ndf 94.66 / 79
p0 −46.44 ± 861.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 80
Mean −37.69
Std Dev 71.98
2
1
0
−1
−2

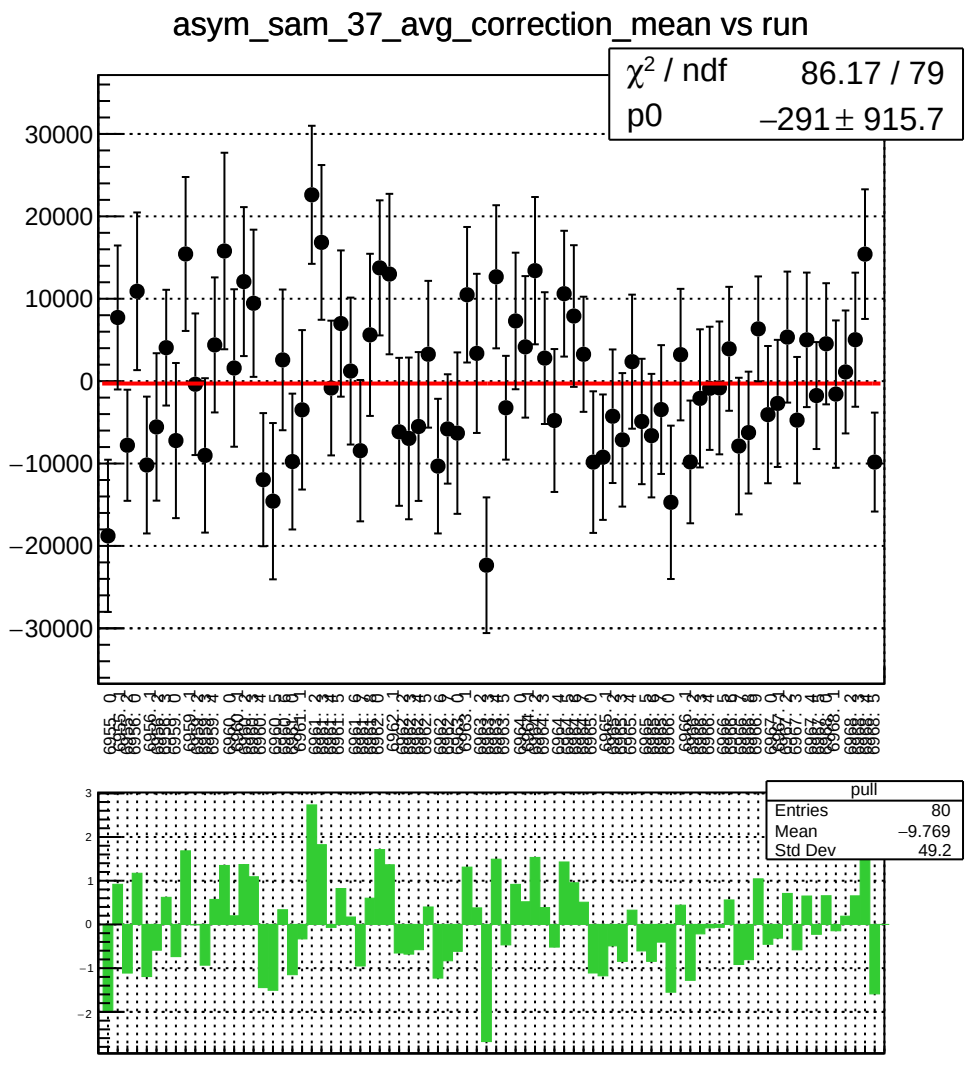

pull1D
Entries 80
Mean −0.02347
Std Dev 1.088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

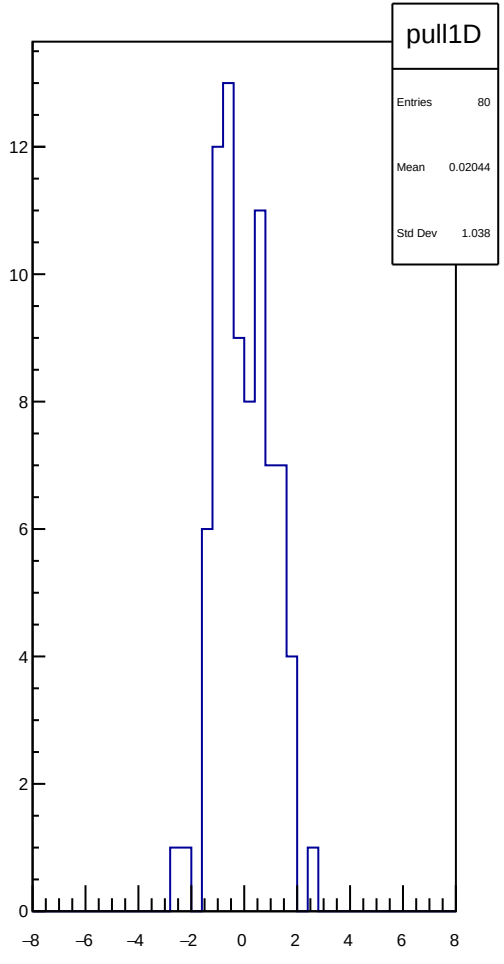

asym_sam_26_avg_rms vs run
χ² / ndf 1.11e+04 / 79
p0 758.6 ± 0.6089
1100
1050
1000
950
900
850
800
750
700
650

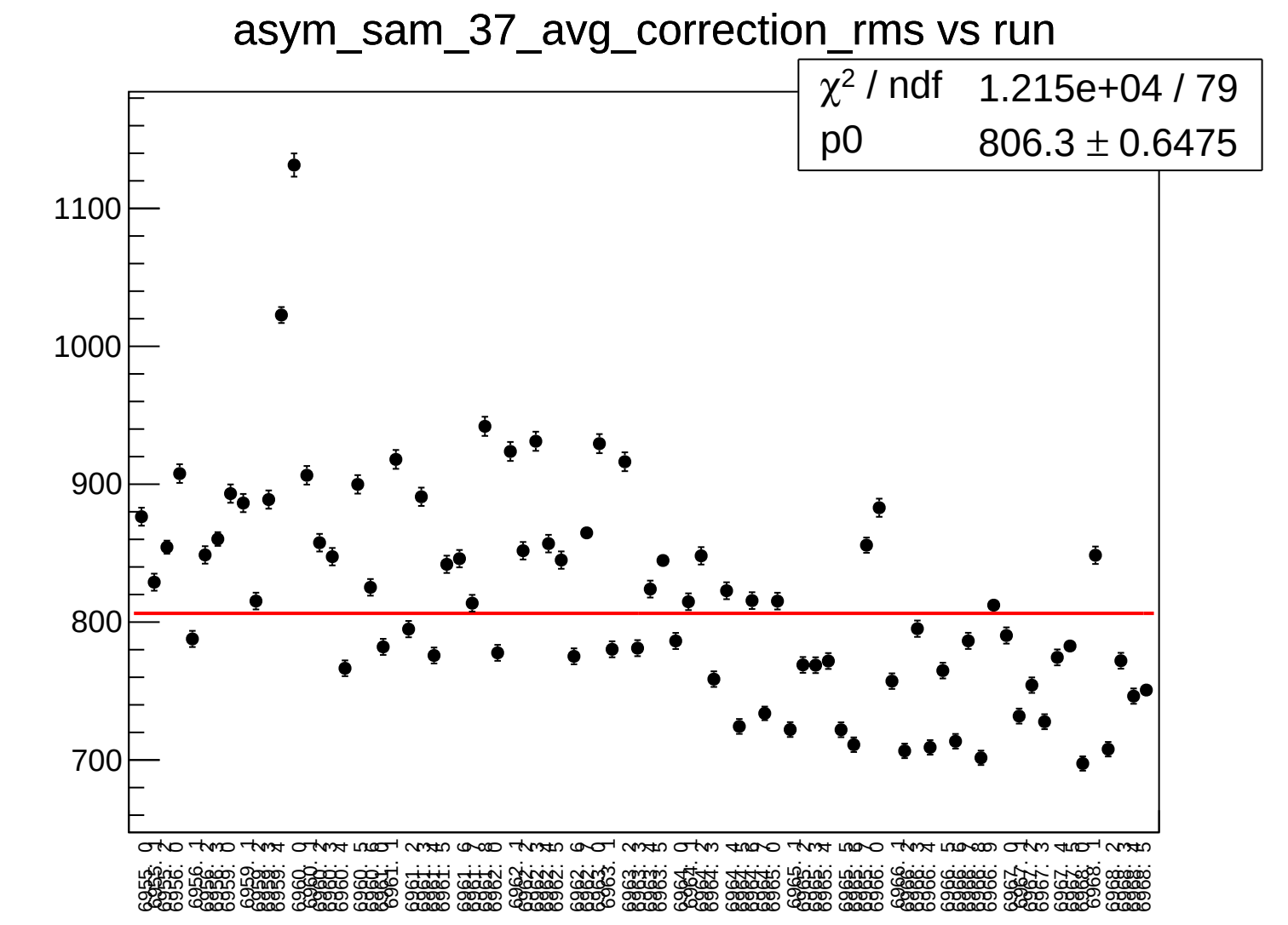

reg_asym_sam_37_avg_mean vs run
χ² / ndf 47.24 / 79
p0 93.71 ± 73.82
pull
Entries 80
Mean 582.9
Std Dev 537.6

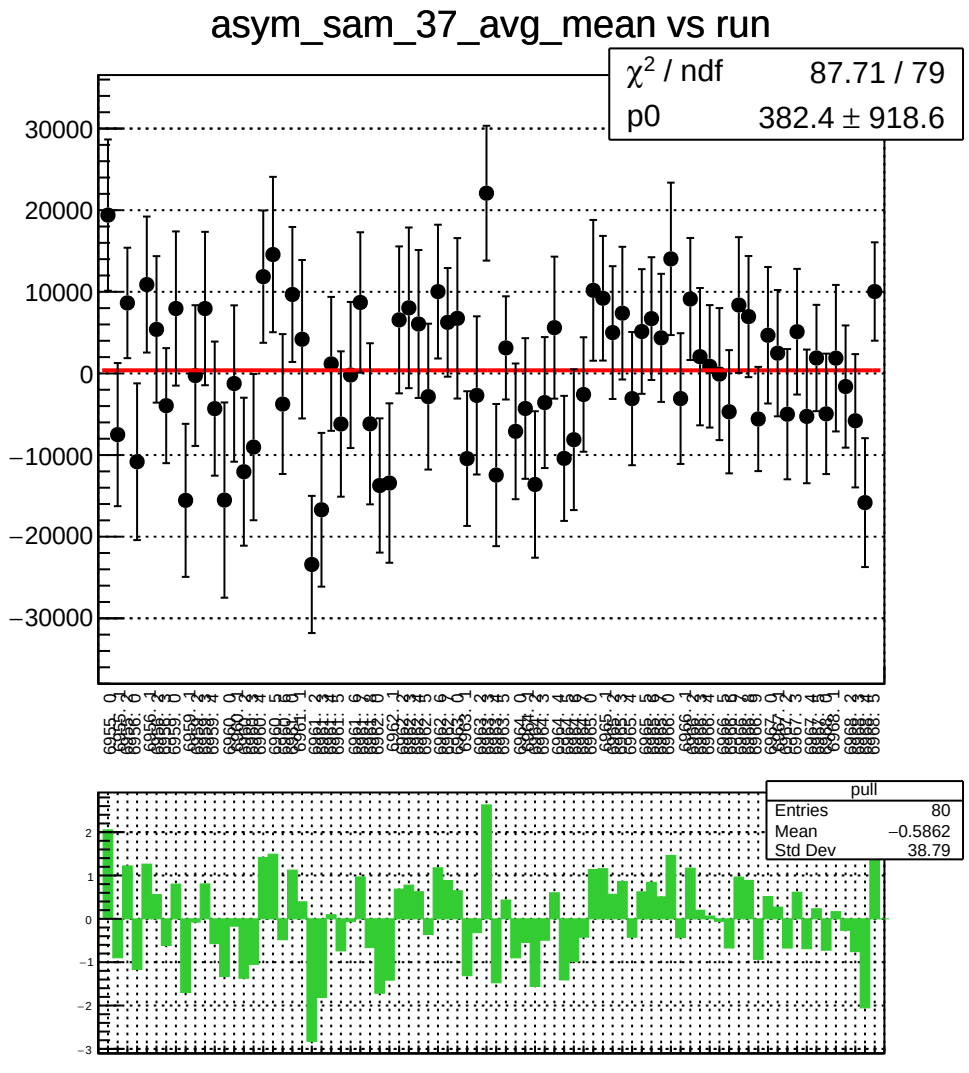

pull1D
Entries 80
Mean −0.004027
Std Dev 0.7684

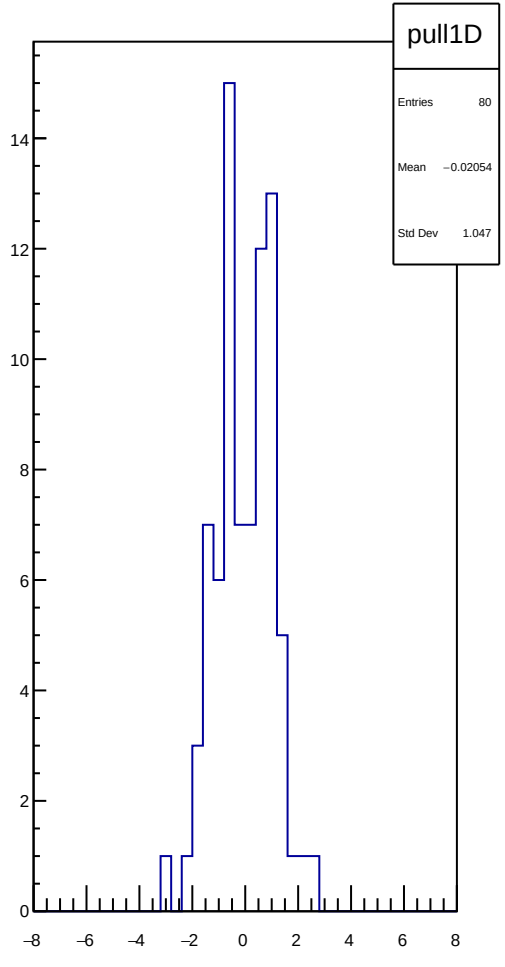

reg_asym_sam_37_avg_rms vs run
χ² / ndf 8918 / 79
p0 65.07 ± 0.0522
85
80
75
70
65
60
55

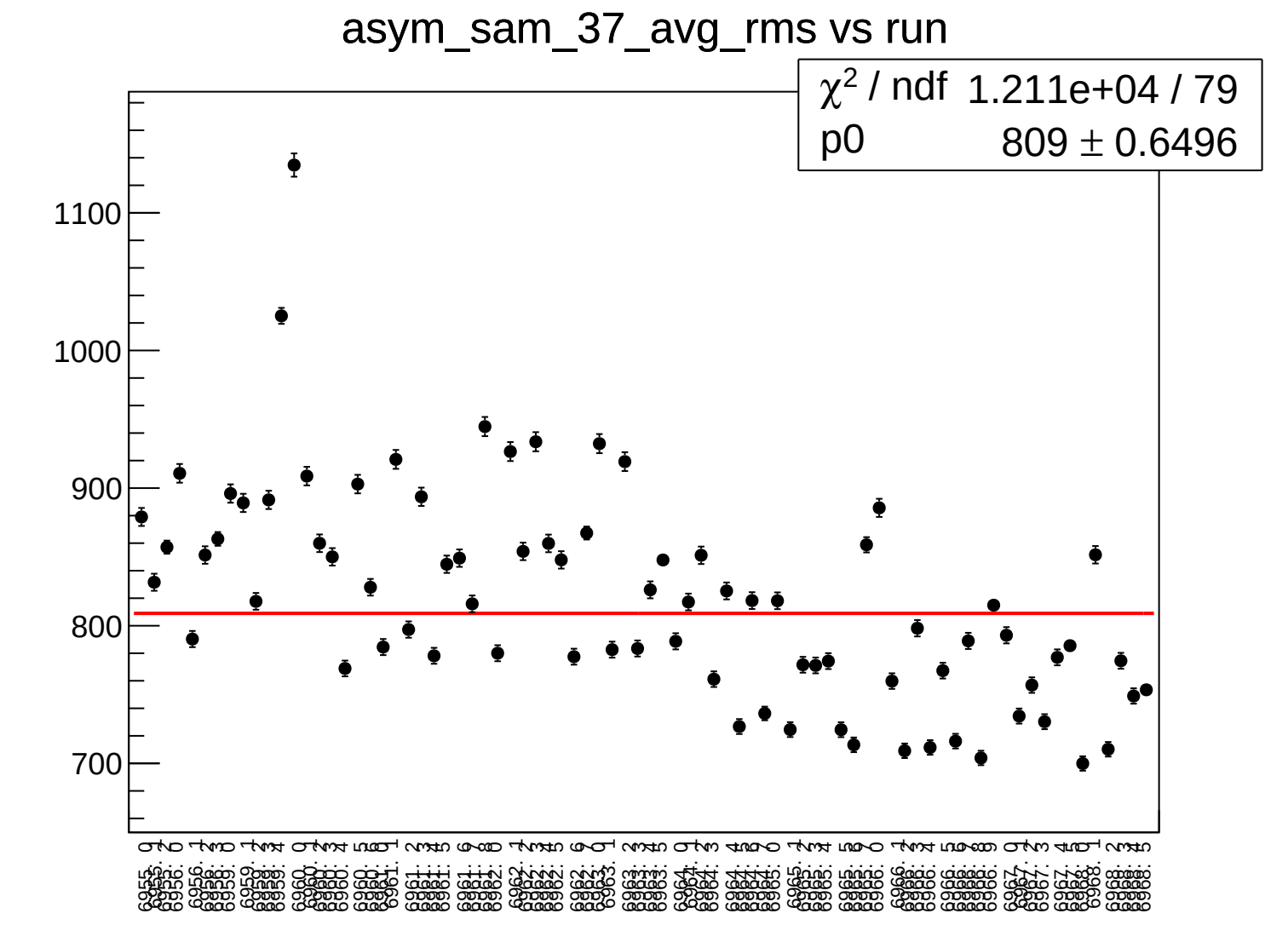

asym_sam_37_avg_correction_mean vs run
χ² / ndf 86.17 / 79
p0 −291 ± 915.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 80
Mean −9.769
Std Dev 49.2
3
2
1
0
−1
−2

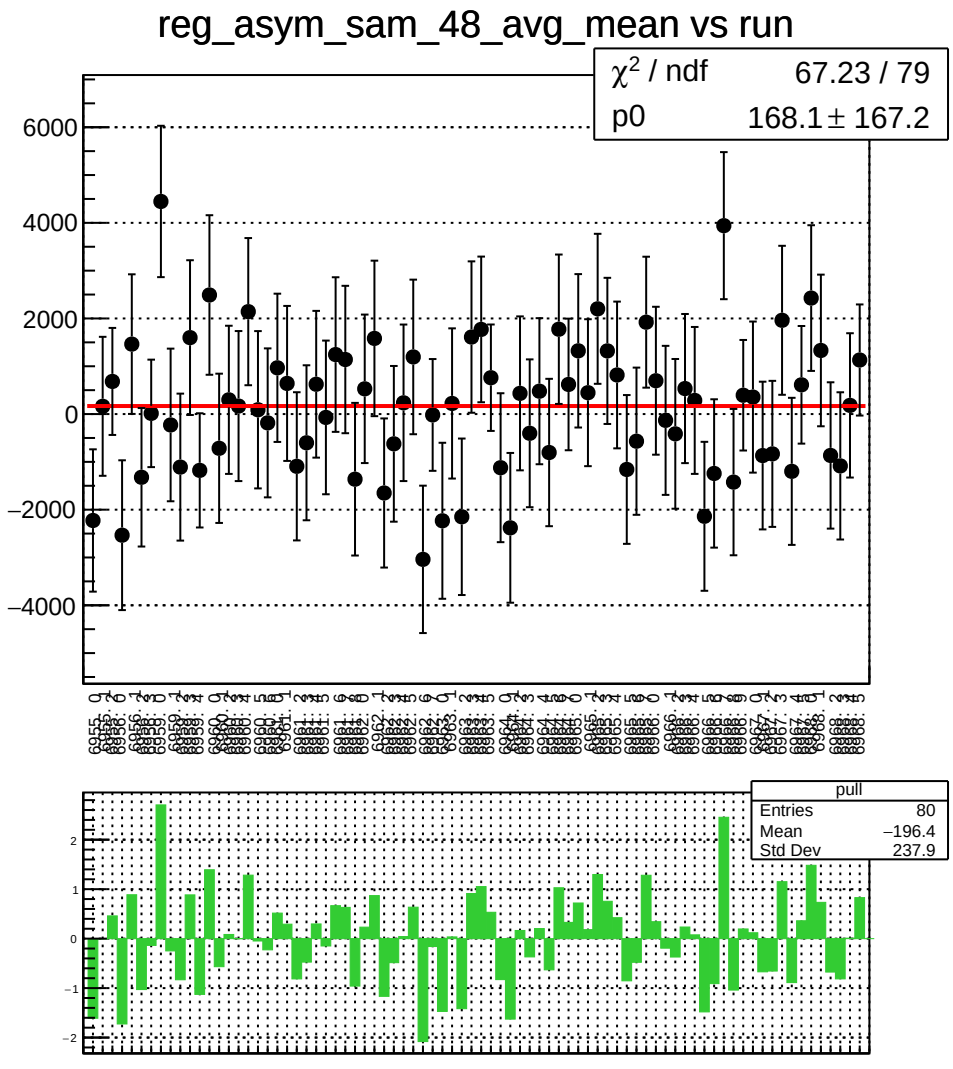

pull1D
Entries 80
Mean 0.02044
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

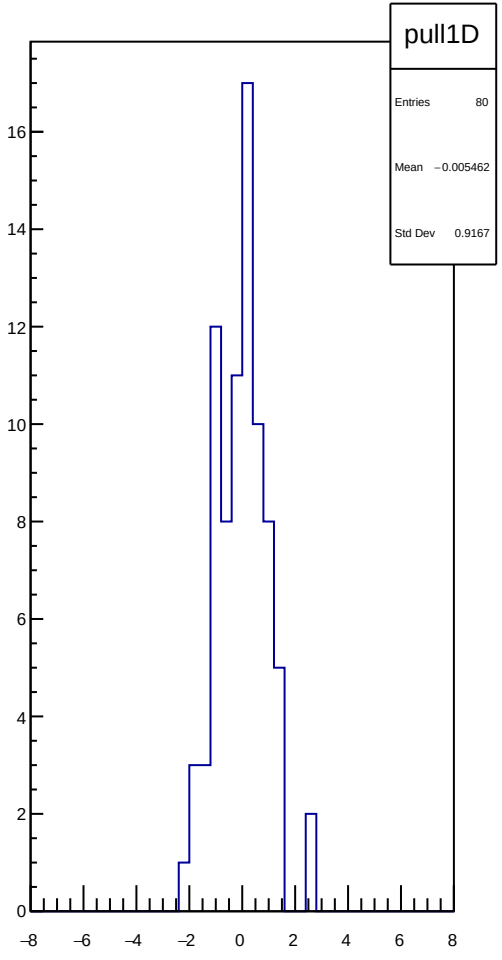

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1.215e+04 / 79
p0 806.3 ± 0.6475
1100
1000
900
800
700

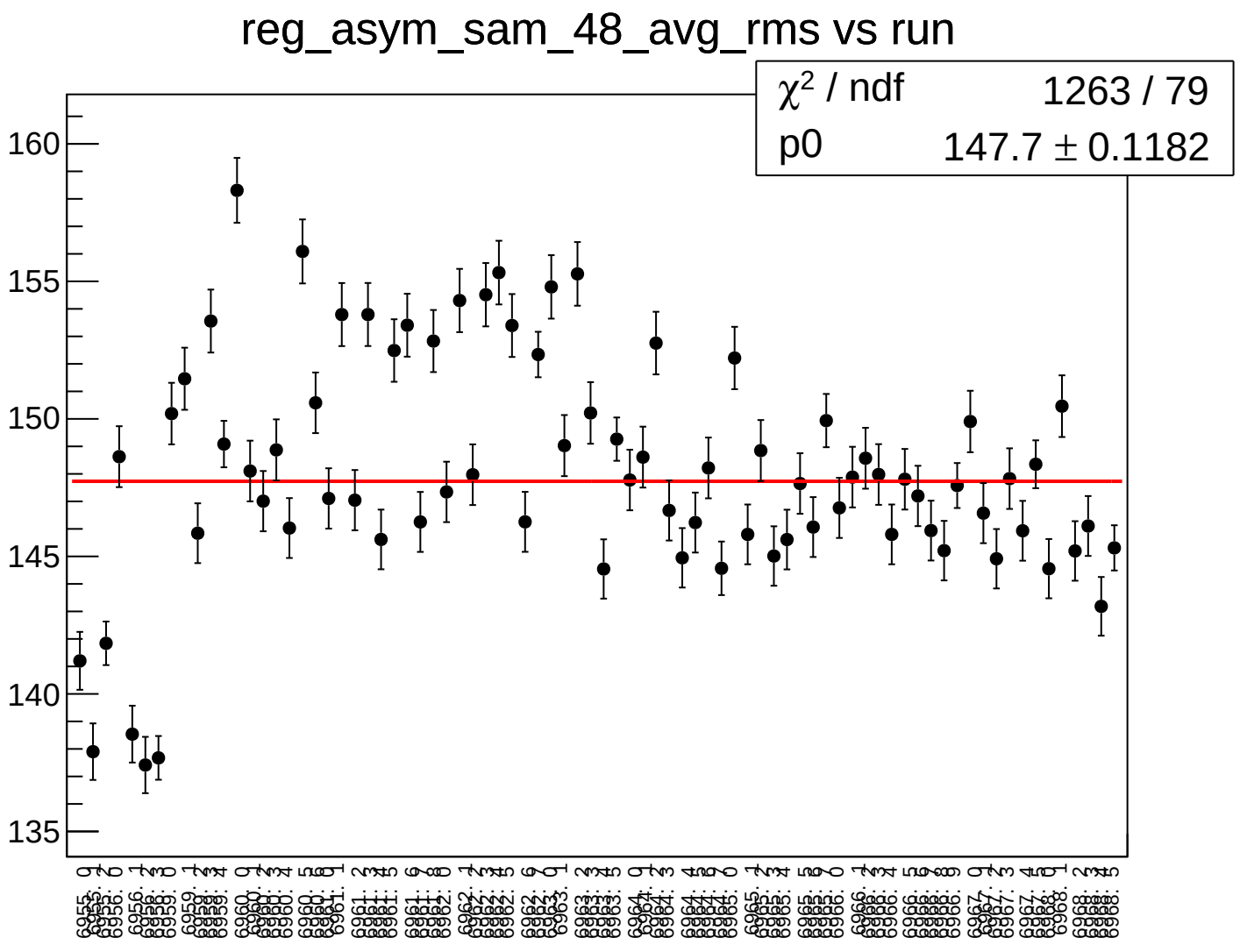

asym_sam_37_avg_mean vs run
χ² / ndf 87.71 / 79
p0 382.4 ± 918.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 80
Mean −0.5862
Std Dev 38.79
2
1
0
−1
−2
−3

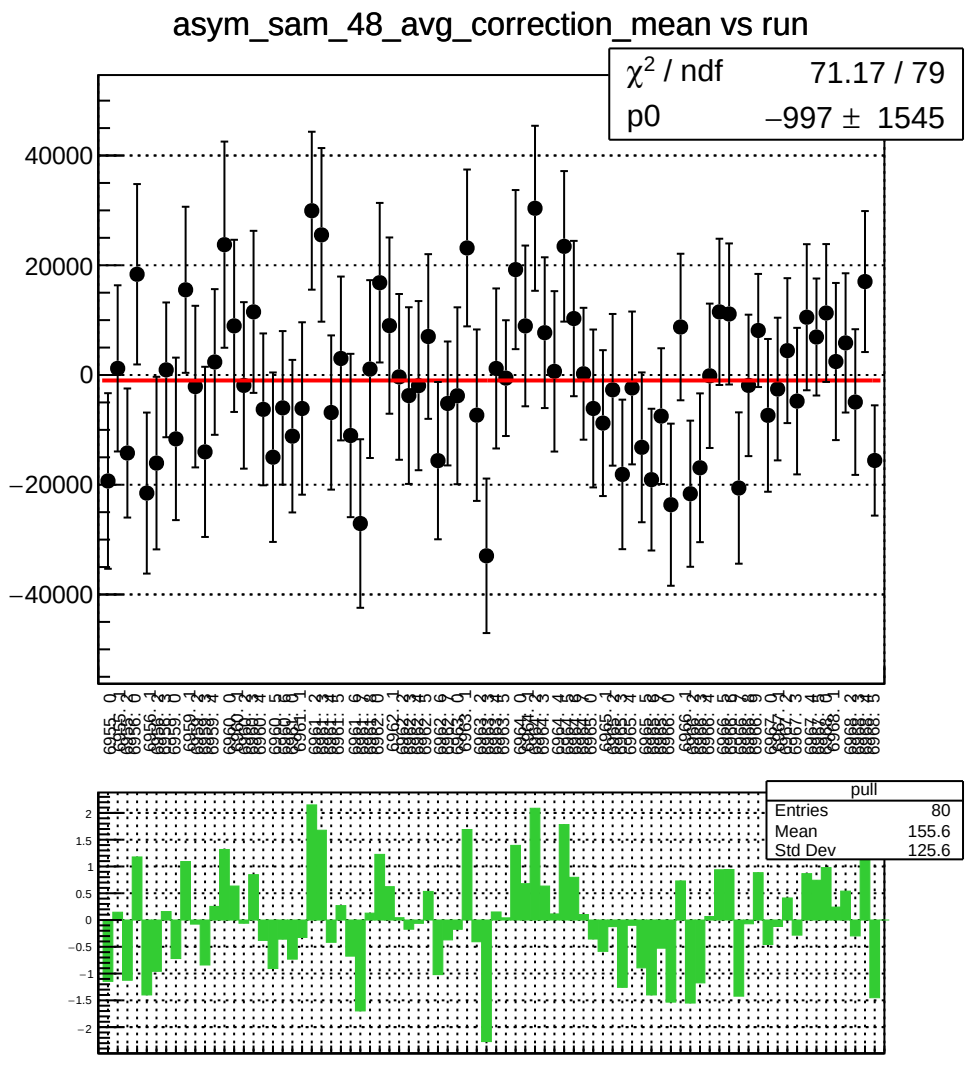

pull1D
Entries 80
Mean −0.02054
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

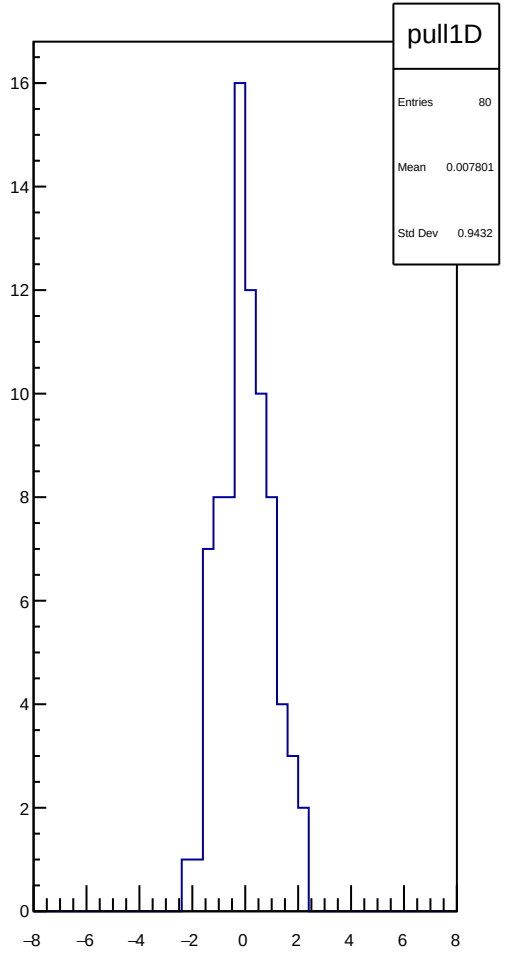

asym_sam_37_avg_rms vs run
χ² / ndf 1.211e+04 / 79
p0 809 ± 0.6496
1100
1000
900
800
700

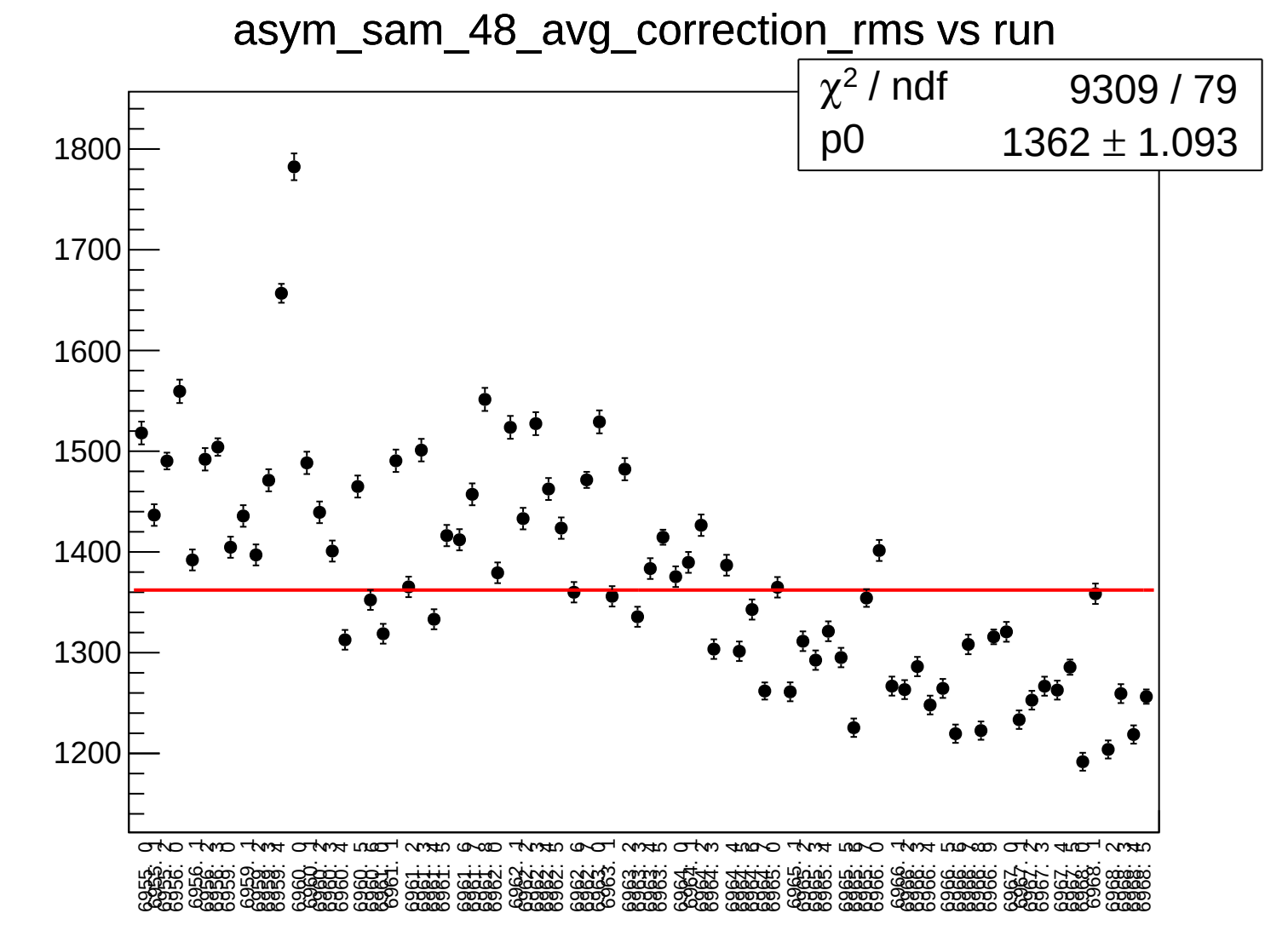

reg_asym_sam_48_avg_mean vs run
χ² / ndf 67.23 / 79
p0 168.1 ± 167.2
pull
Entries 80
Mean −196.4
Std Dev 237.9

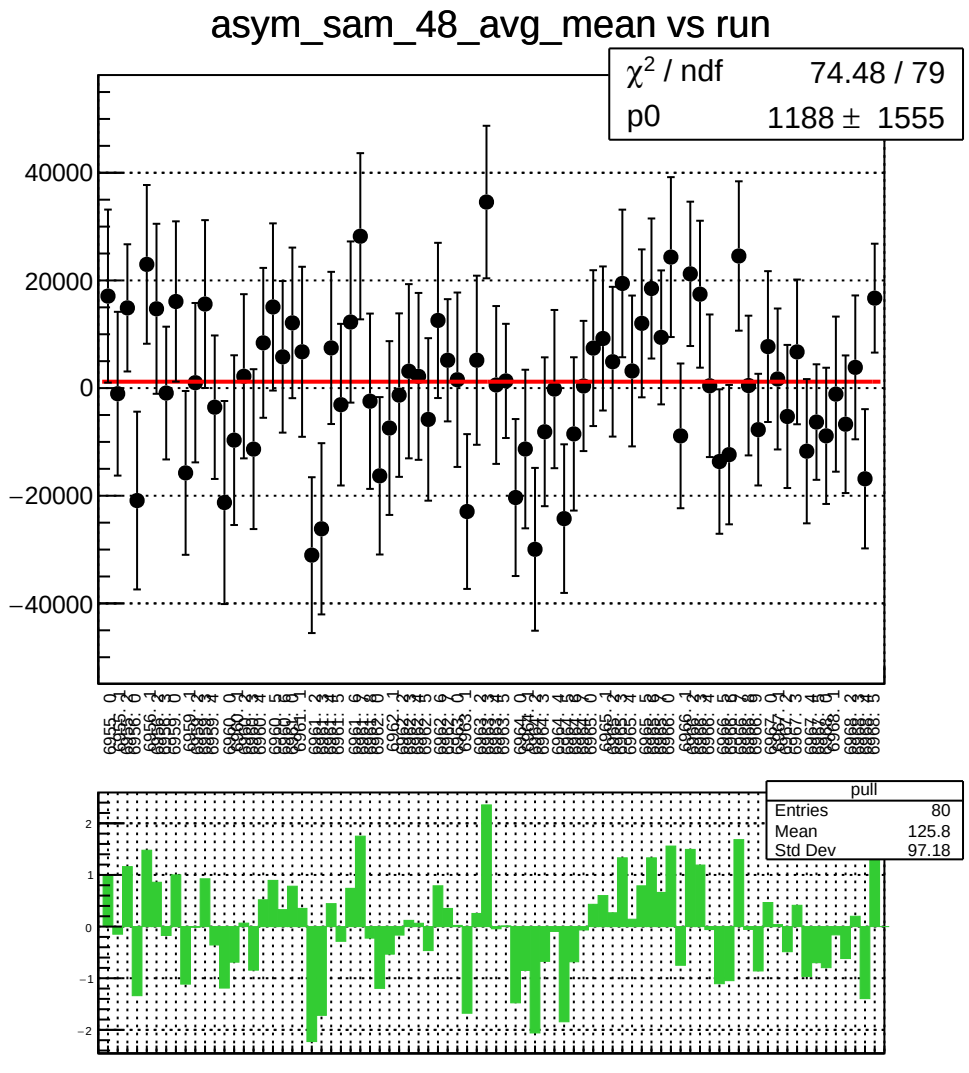

pull1D
Entries 80
Mean −0.005462
Std Dev 0.9167

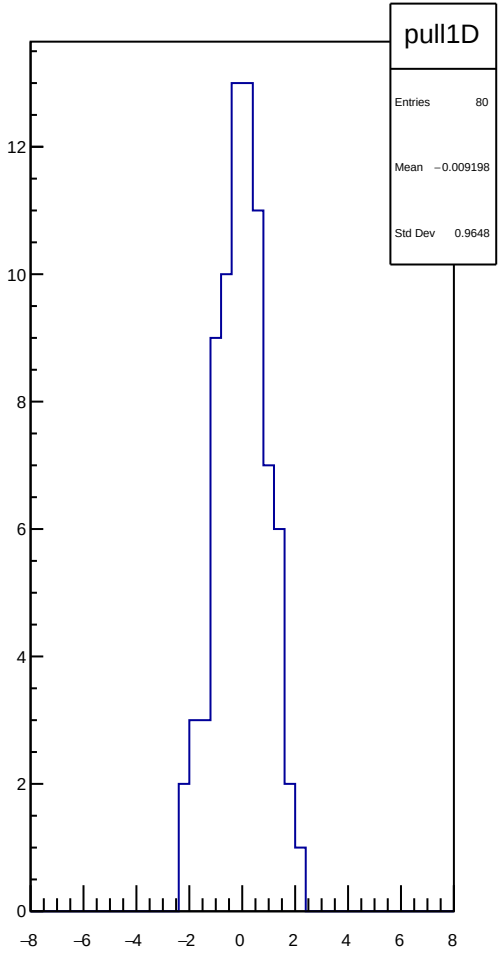

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1263 / 79
p0 147.7 ± 0.1182
160
155
150
145
140
135

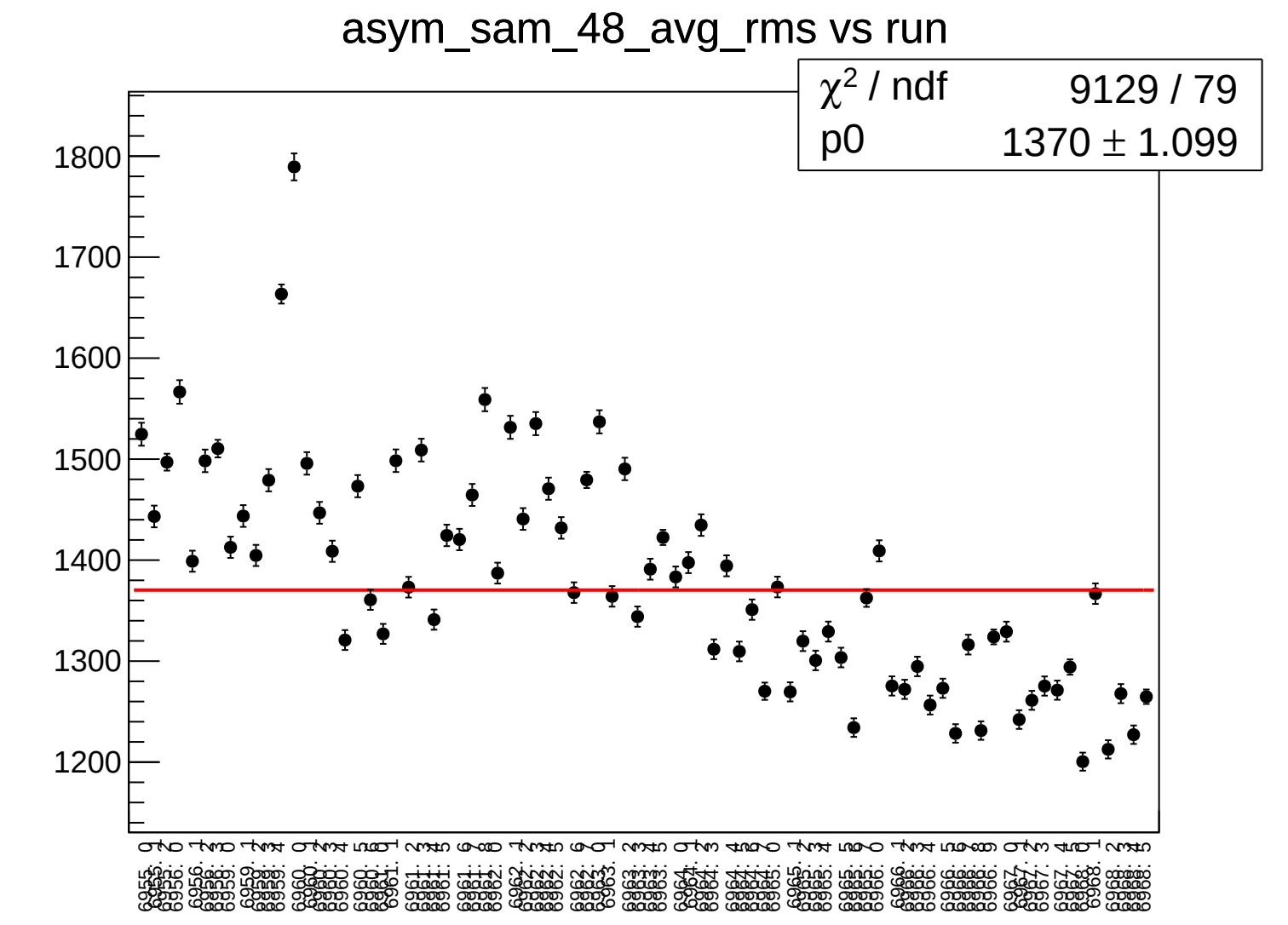

asym_sam_48_avg_correction_mean vs run
χ² / ndf 71.17 / 79
p0 −997 ± 1545
40000
20000
0
−20000
−40000
pull
Entries 80
Mean 155.6
Std Dev 125.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

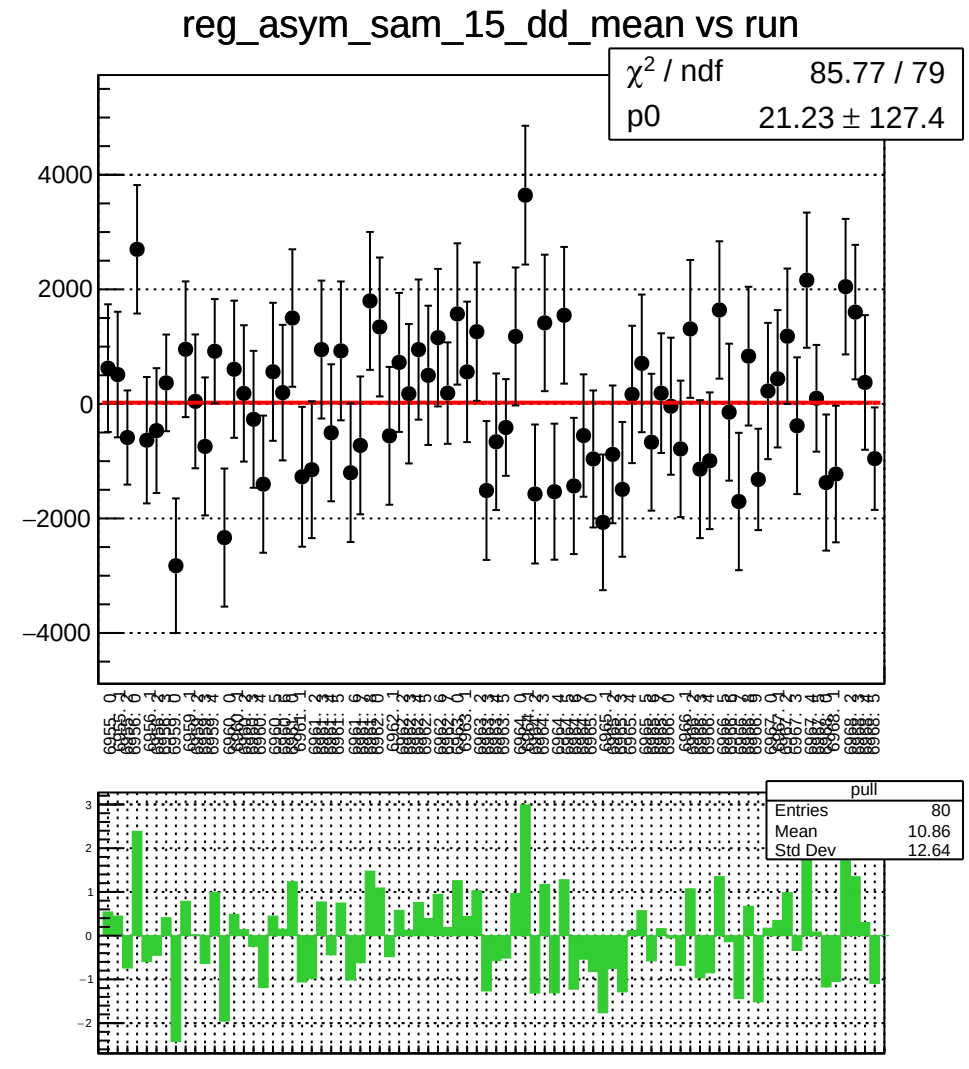

pull1D
Entries 80
Mean 0.007801
Std Dev 0.9432
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

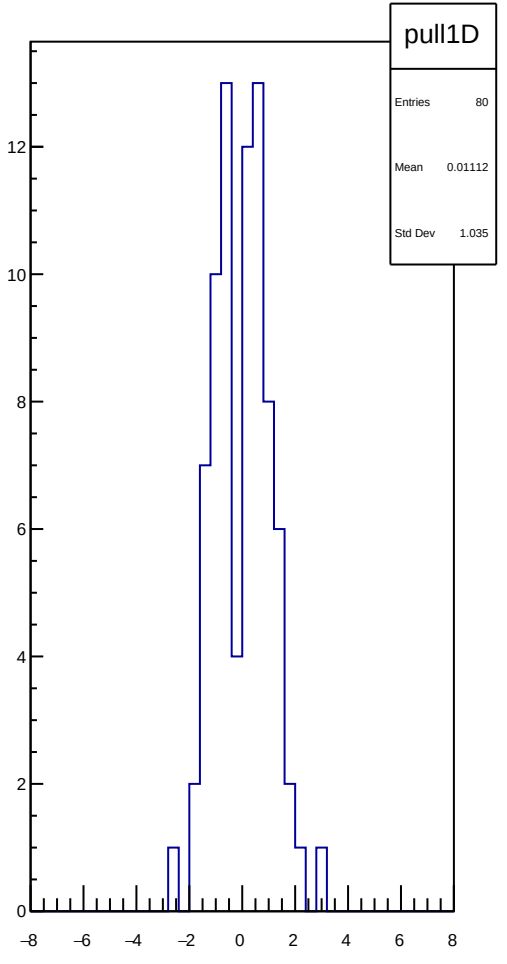

asym_sam_48_avg_correction_rms vs run
χ^2 / ndf 9309 / 79
p0 1362 ± 1.093
1800
1700
1600
1500
1400
1300
1200

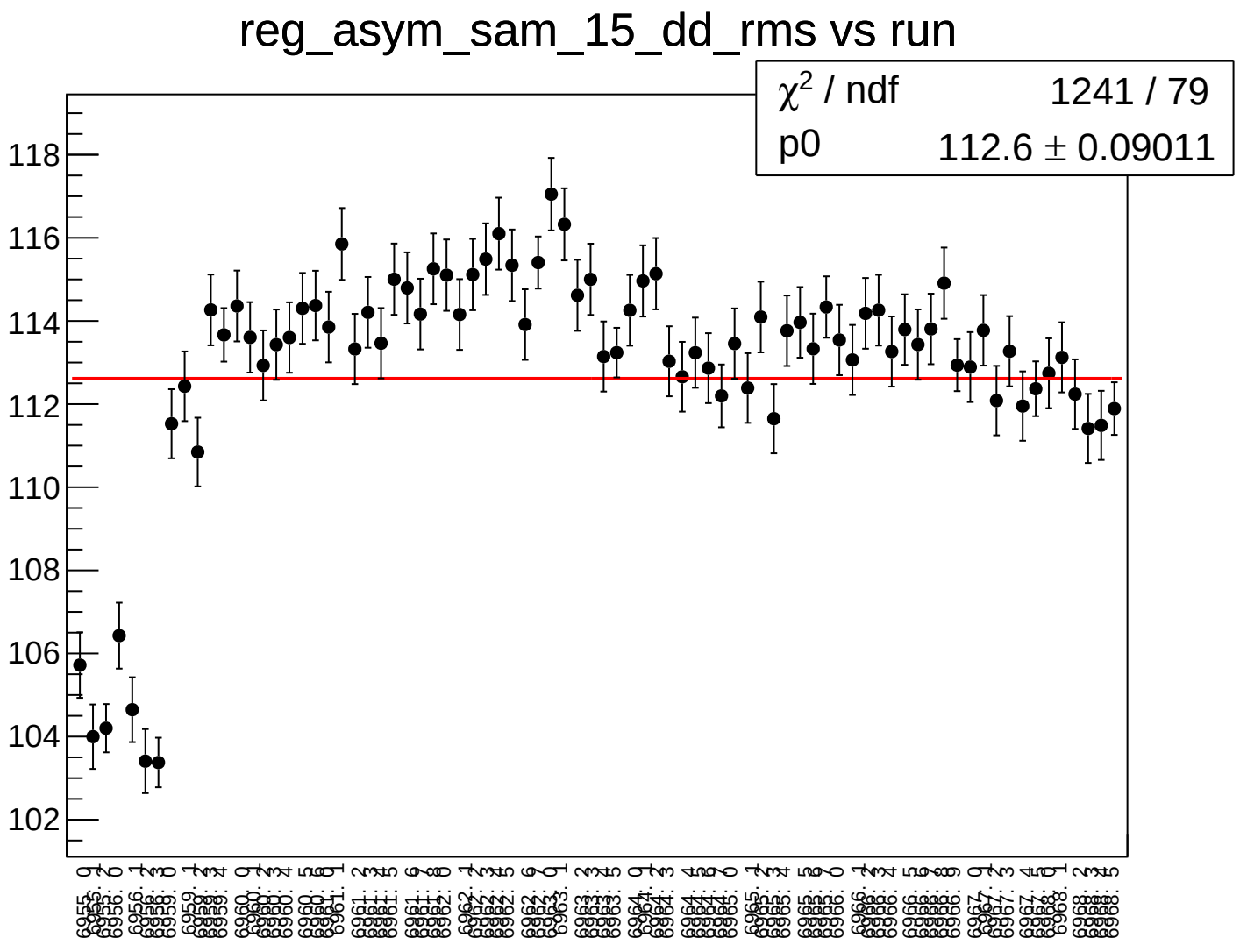

asym_sam_48_avg_mean vs run
χ² / ndf 74.48 / 79
p0 1188 ± 1555
40000
20000
0
−20000
−40000
pull
Entries 80
Mean 125.8
Std Dev 97.18
2
1
0
−1
−2

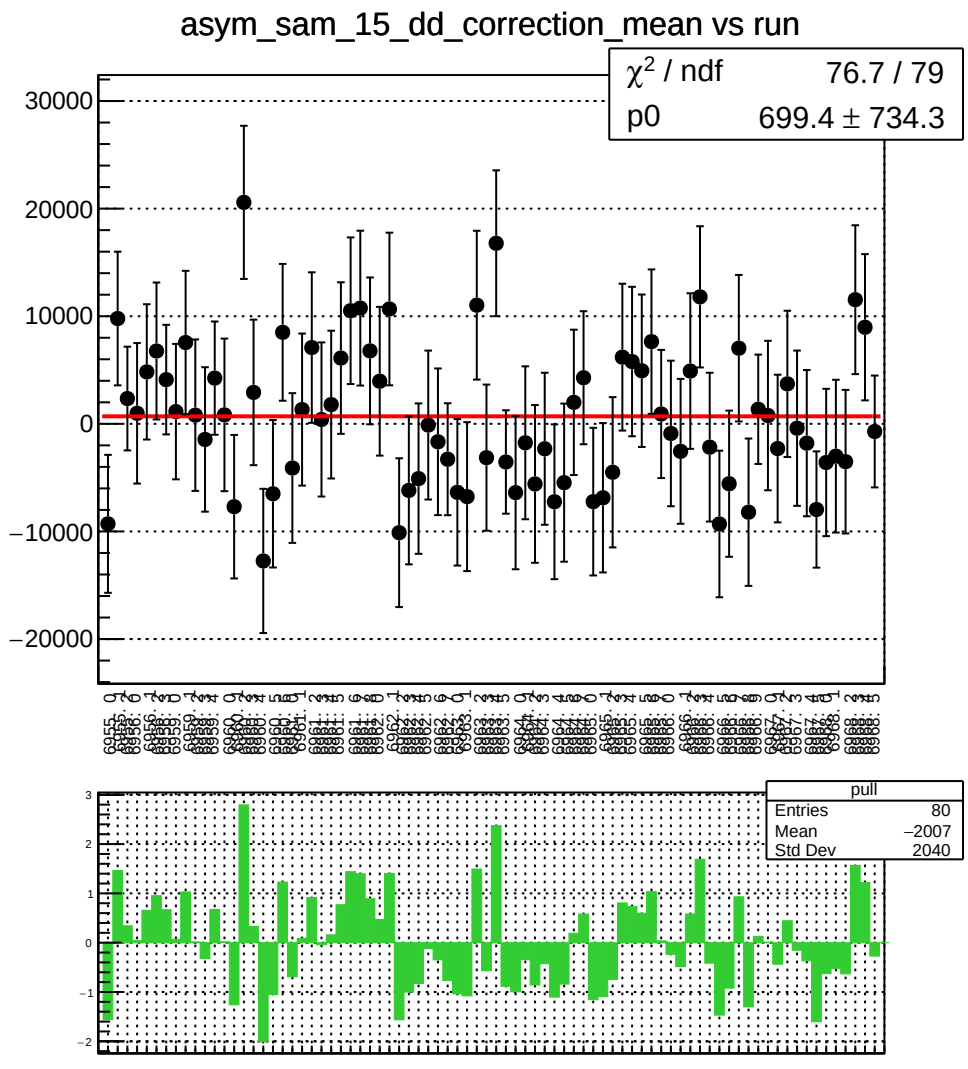

pull1D
Entries 80
Mean −0.009198
Std Dev 0.9648
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

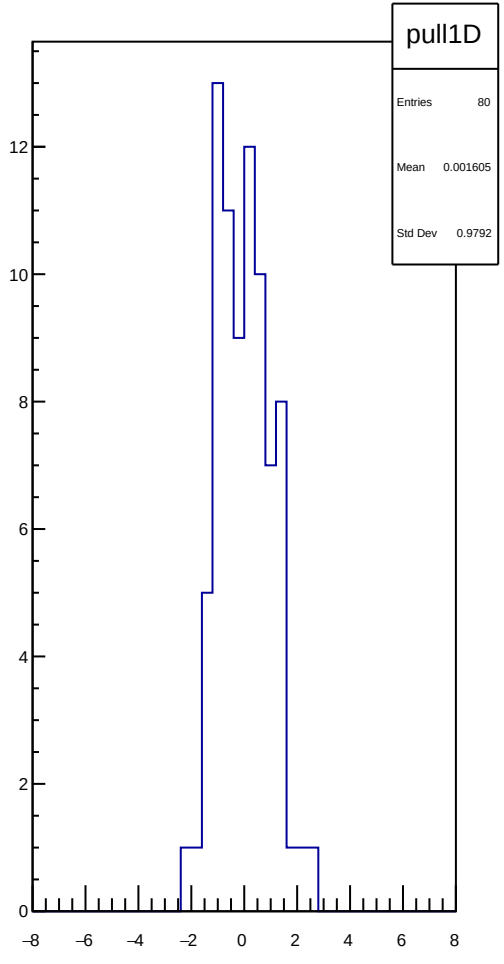

asym_sam_48_avg_rms vs run
χ^2 / ndf 9129 / 79
p0 1370 ± 1.099
1800
1700
1600
1500
1400
1300
1200

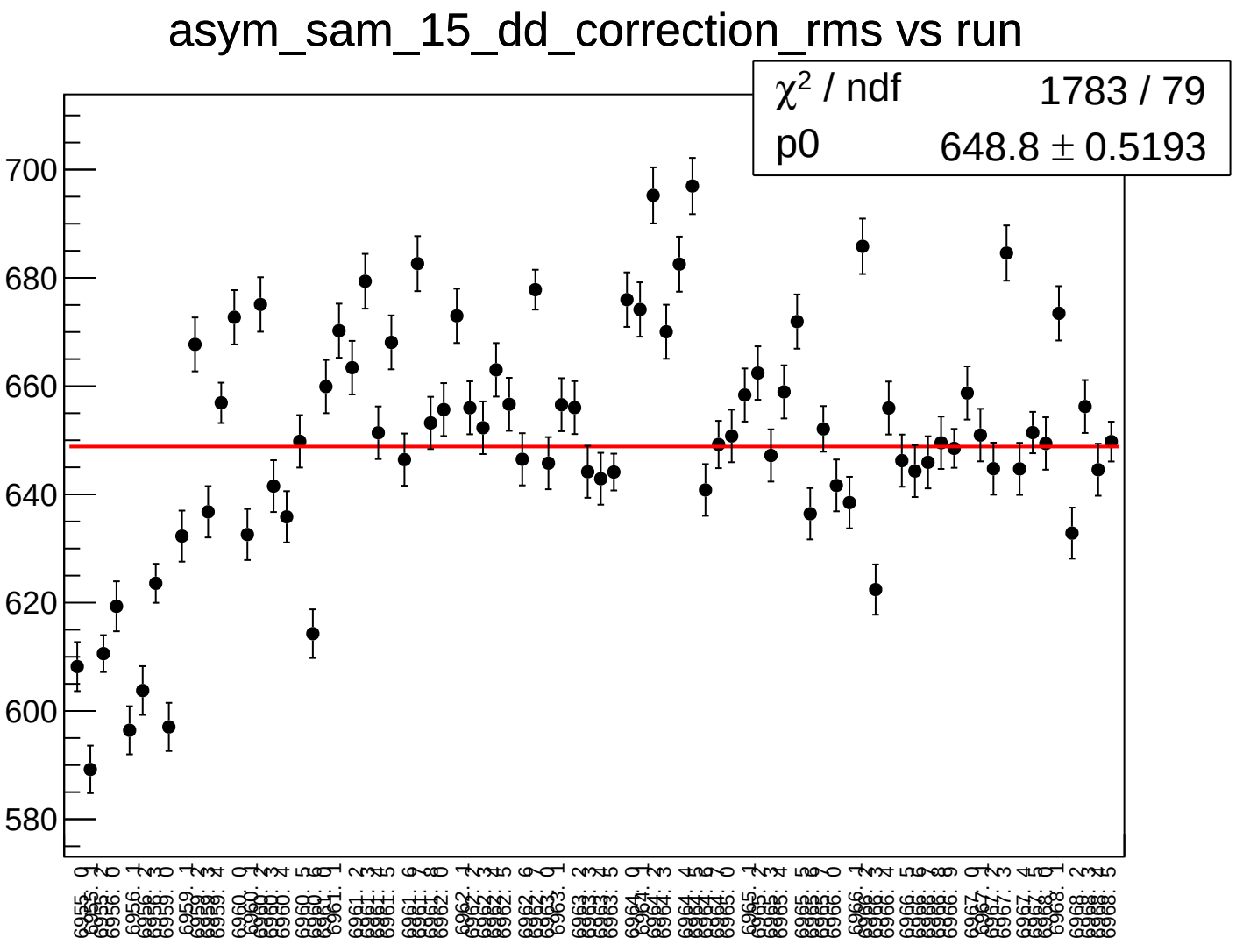

reg_asym_sam_15_dd_mean vs run
χ² / ndf 85.77 / 79
p0 21.23 ± 127.4
4000
2000
0
−2000
−4000
pull
Entries 80
Mean 10.86
Std Dev 12.64
3
2
1
0
−1
−2

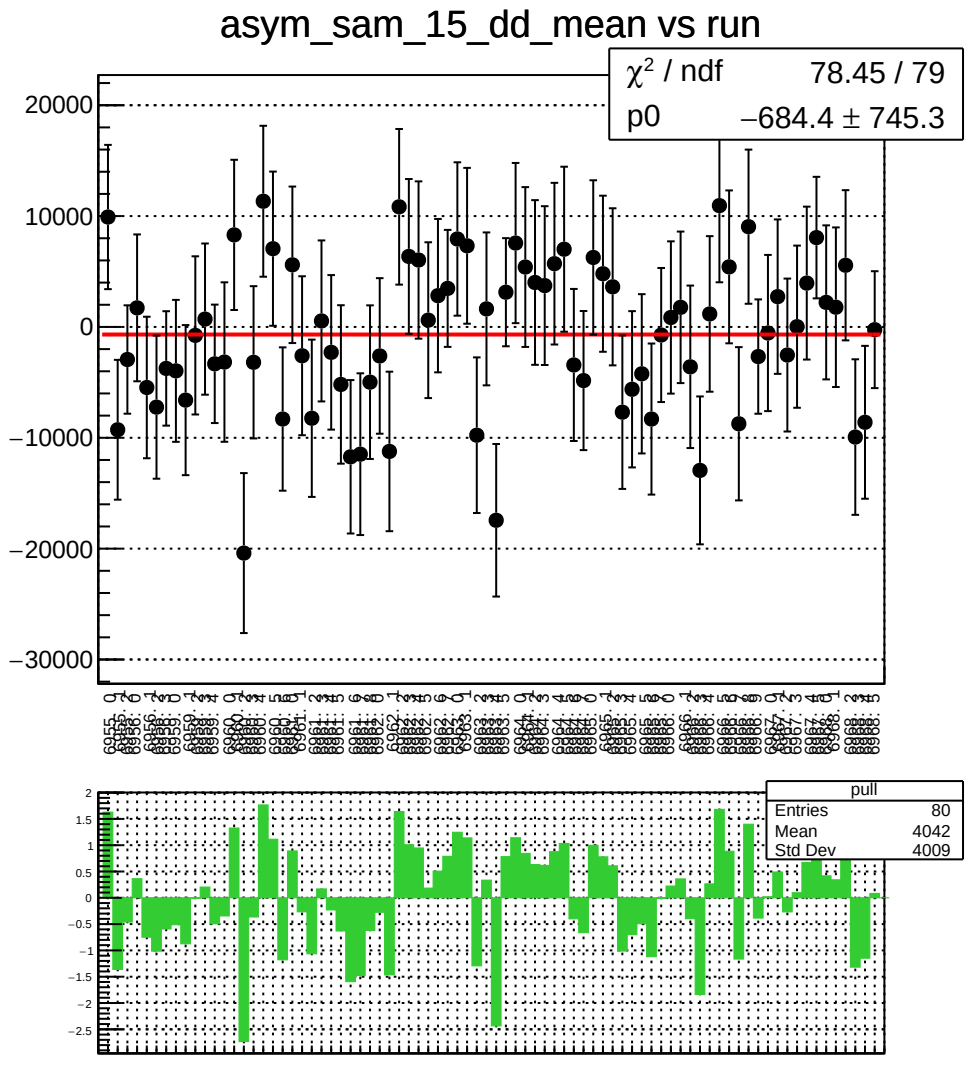

pull1D
Entries 80
Mean 0.01112
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

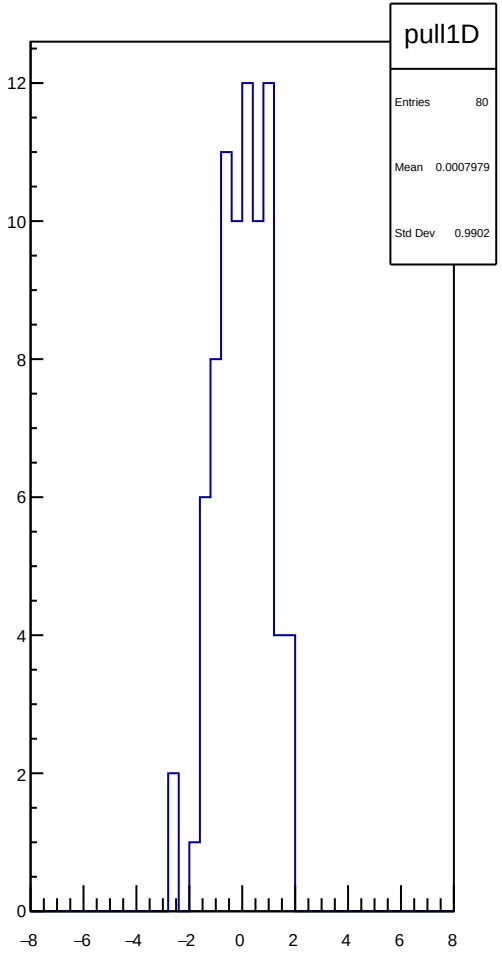

reg_asym_sam_15_dd_rms vs run
χ² / ndf 1241 / 79
p0 112.6 ± 0.09011
118
116
114
112
110
108
106
104
102

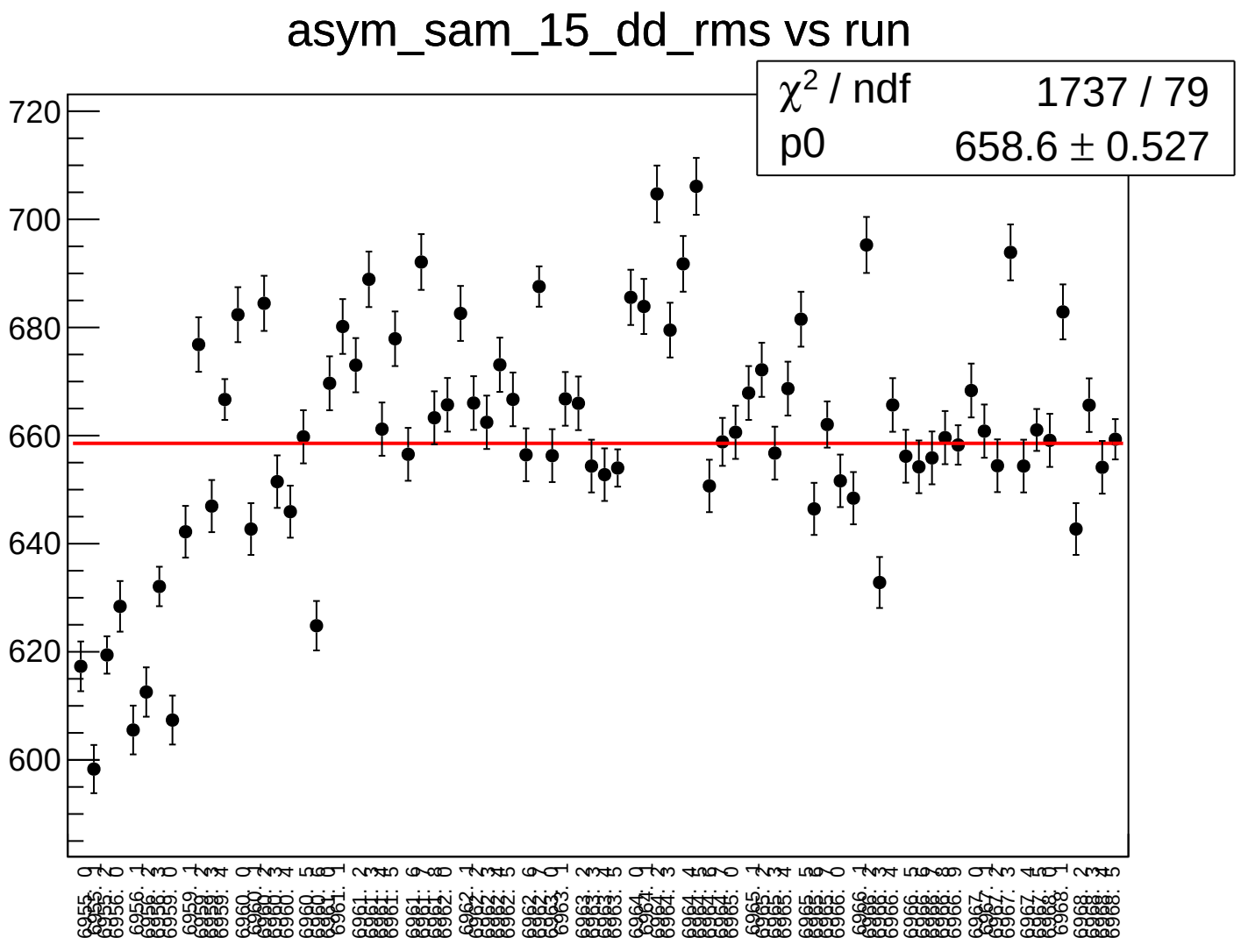

asym_sam_15_dd_correction_mean vs run
χ² / ndf 76.7 / 79
p0 699.4 ± 734.3
30000
20000
10000
0
−10000
−20000
pull
Entries 80
Mean −2007
Std Dev 2040
3
2
1
0
−1
−2

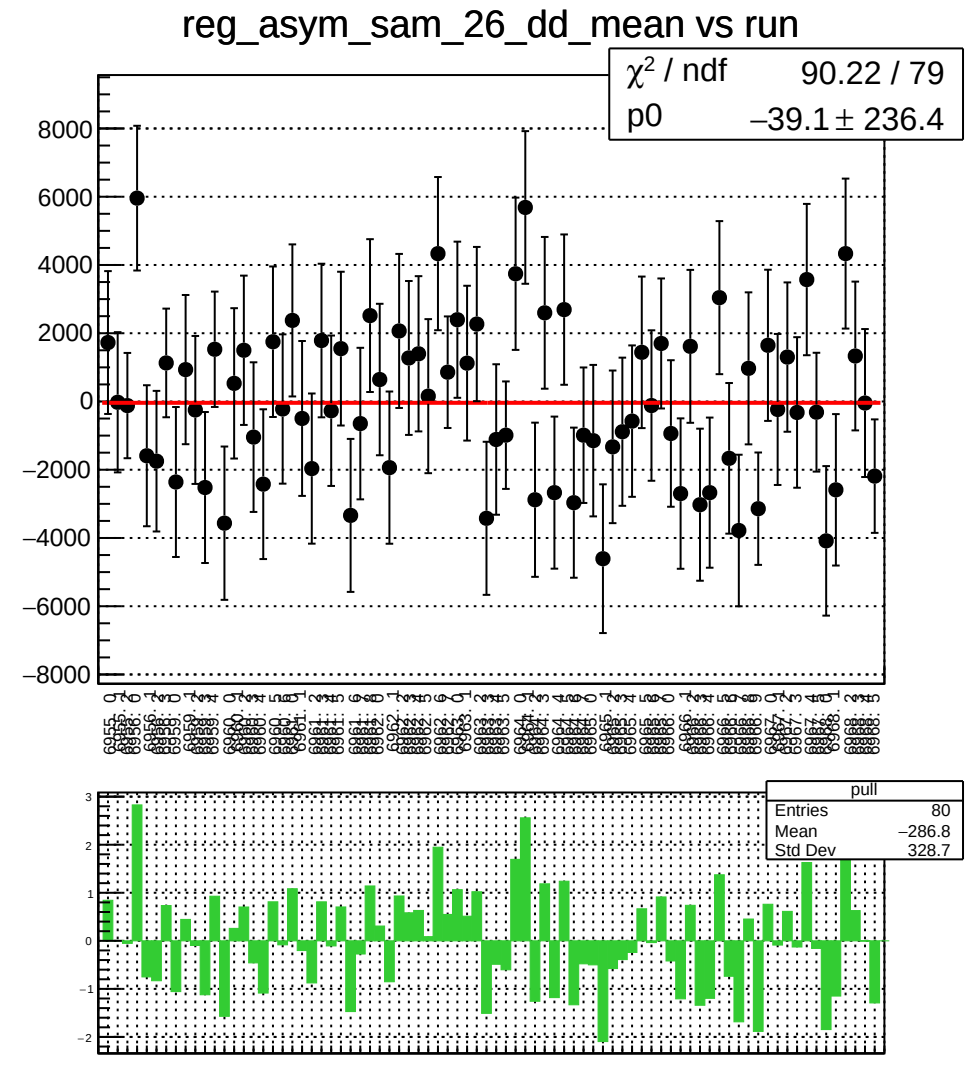

pull1D
Entries 80
Mean 0.001605
Std Dev 0.9792
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

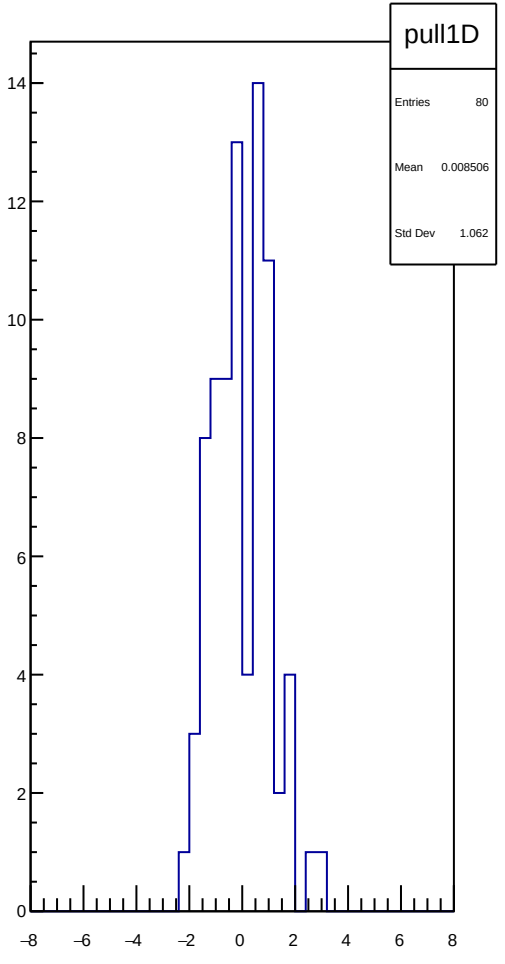

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1783 / 79
p0 648.8 ± 0.5193
700
680
660
640
620
600
580

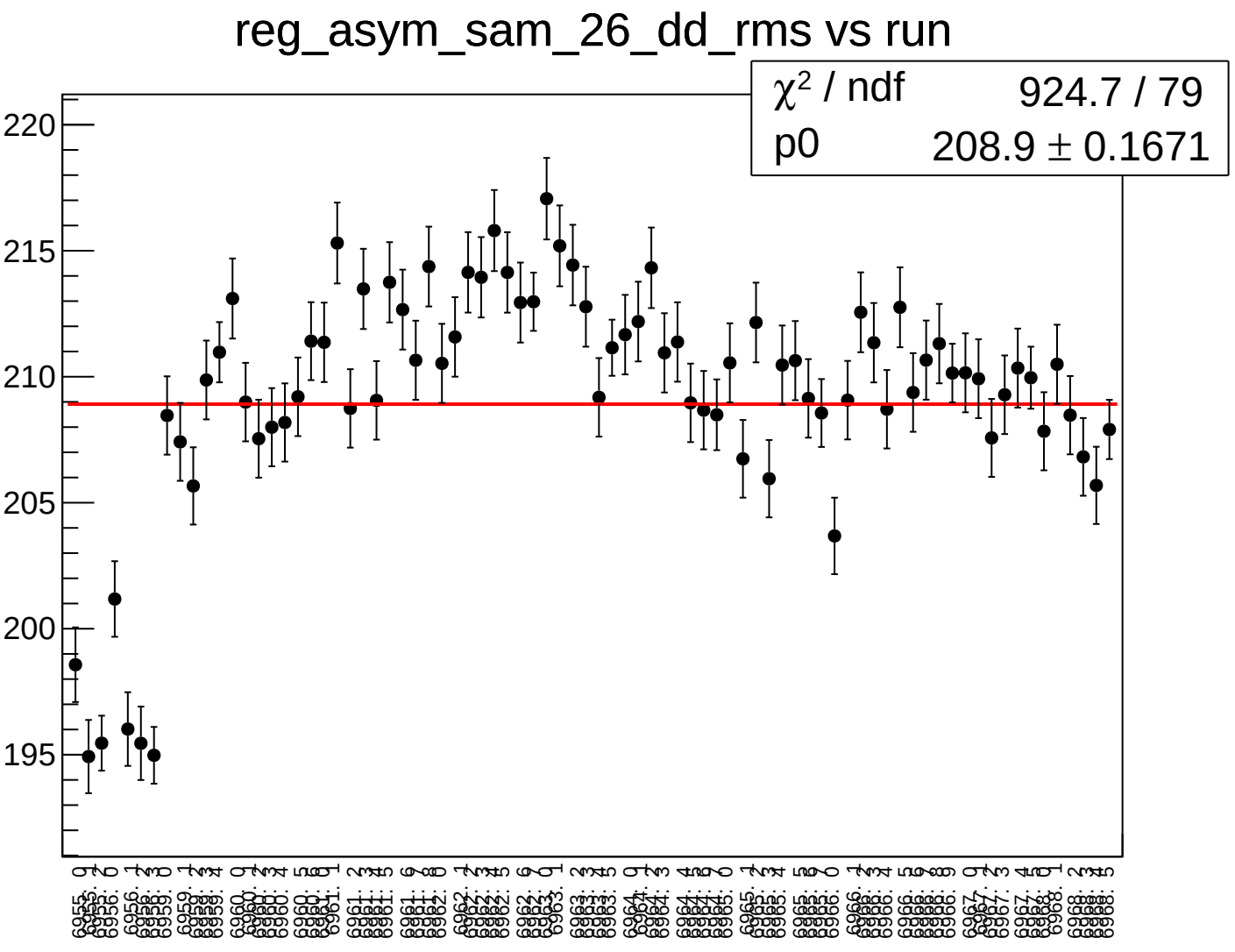

asym_sam_15_dd_mean vs run
χ² / ndf 78.45 / 79
p0 −684.4 ± 745.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 80
Mean 4042
Std Dev 4009
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

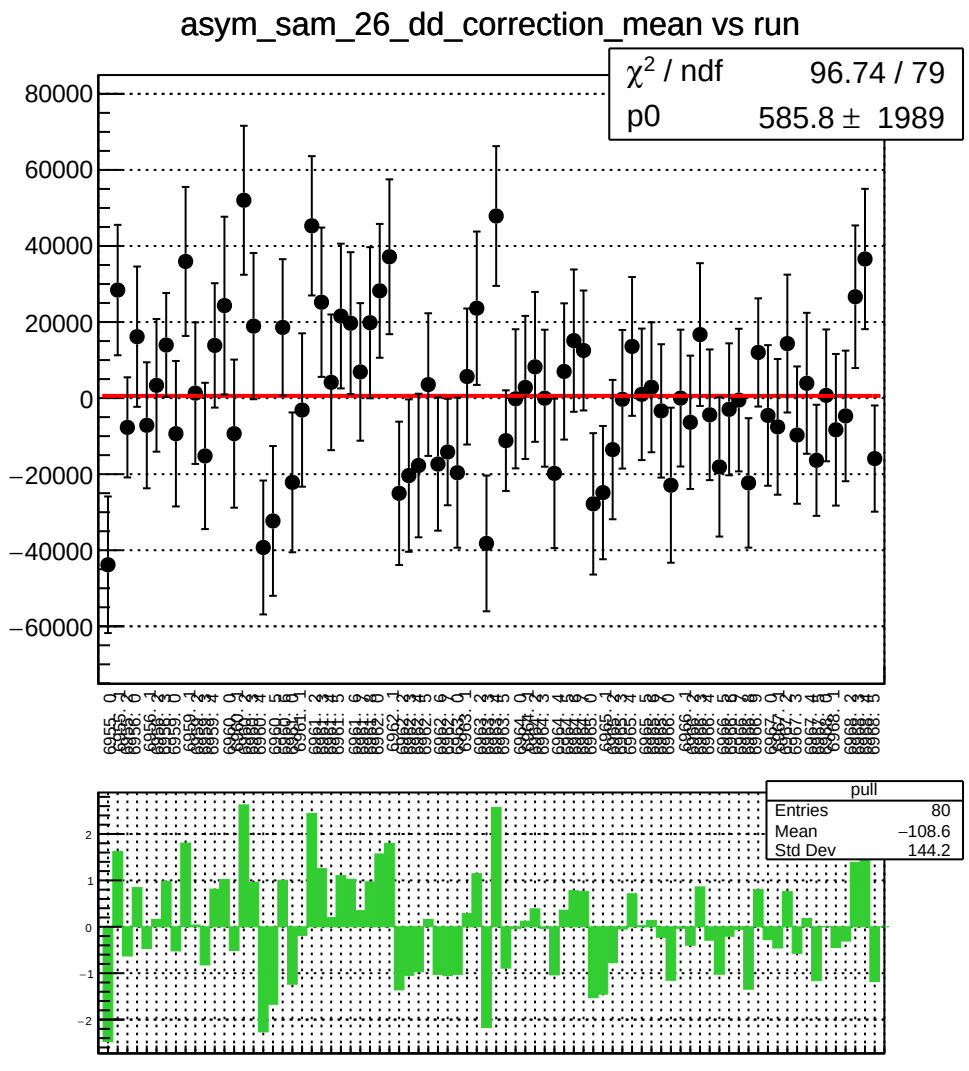

pull1D
Entries 80
Mean 0.0007979
Std Dev 0.9902
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

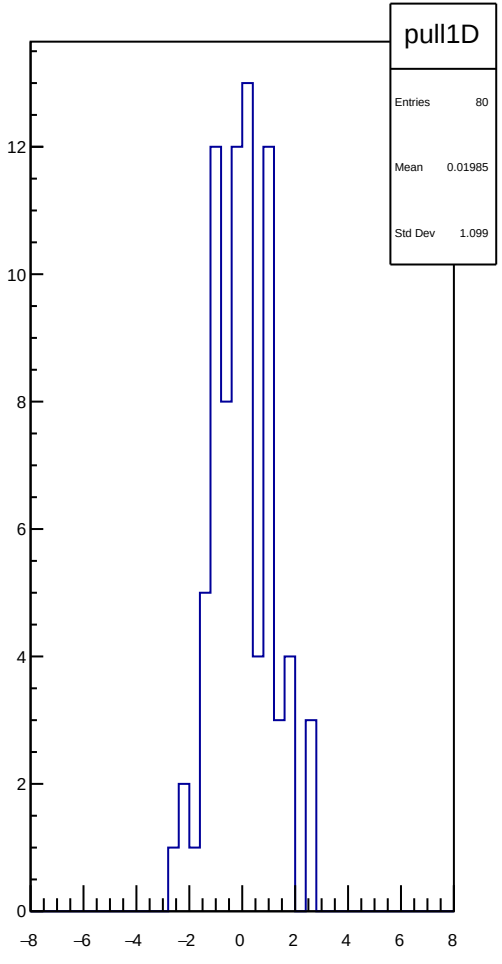

asym_sam_15_dd_rms vs run
χ² / ndf 1737 / 79
p0 658.6 ± 0.527
720
700
680
660
640
620
600


reg_asym_sam_26_dd_mean vs run
χ² / ndf 90.22 / 79
p0 −39.1 ± 236.4
pull
Entries 80
Mean −286.8
Std Dev 328.7

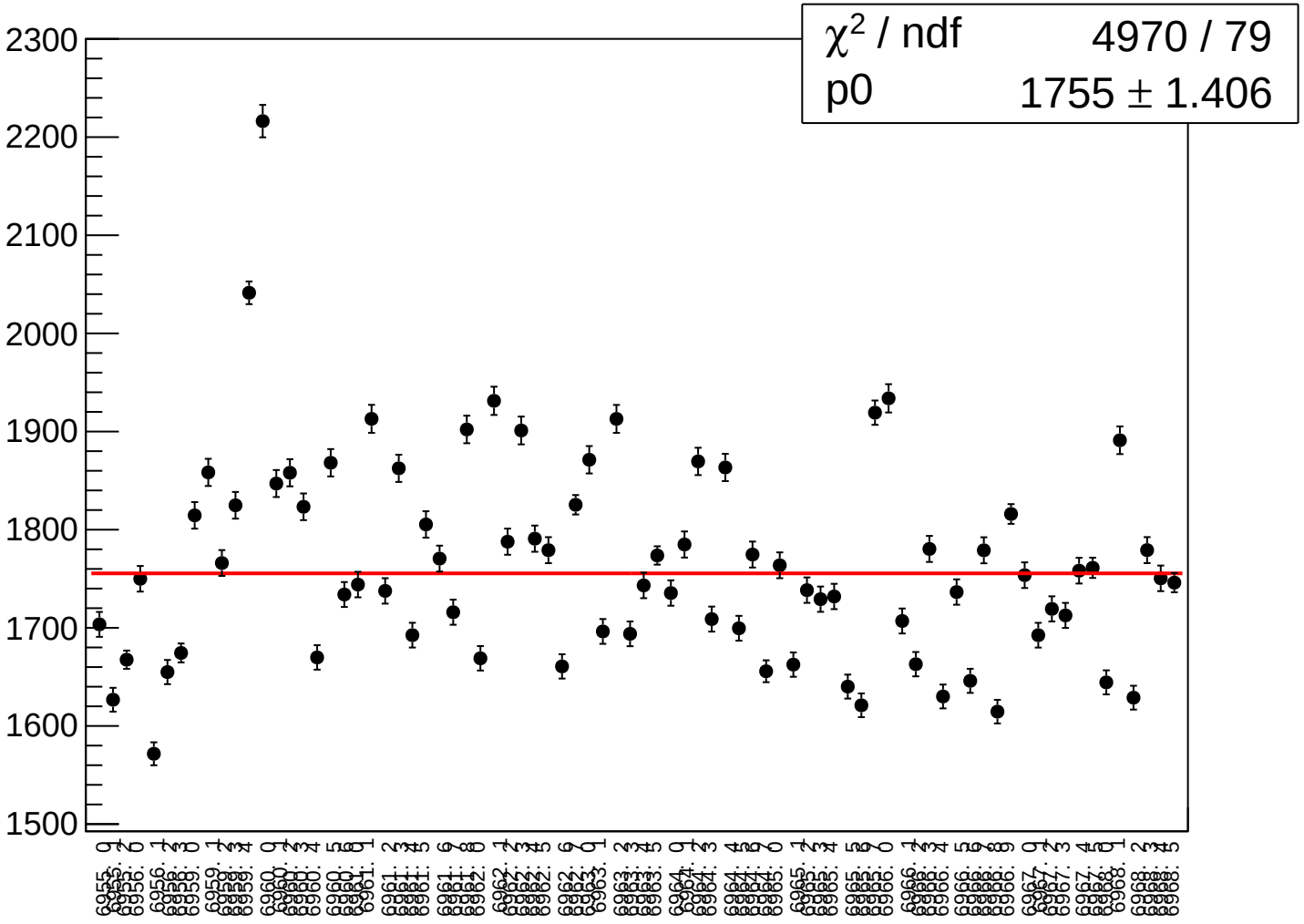

pull1D
Entries 80
Mean 0.008506
Std Dev 1.062

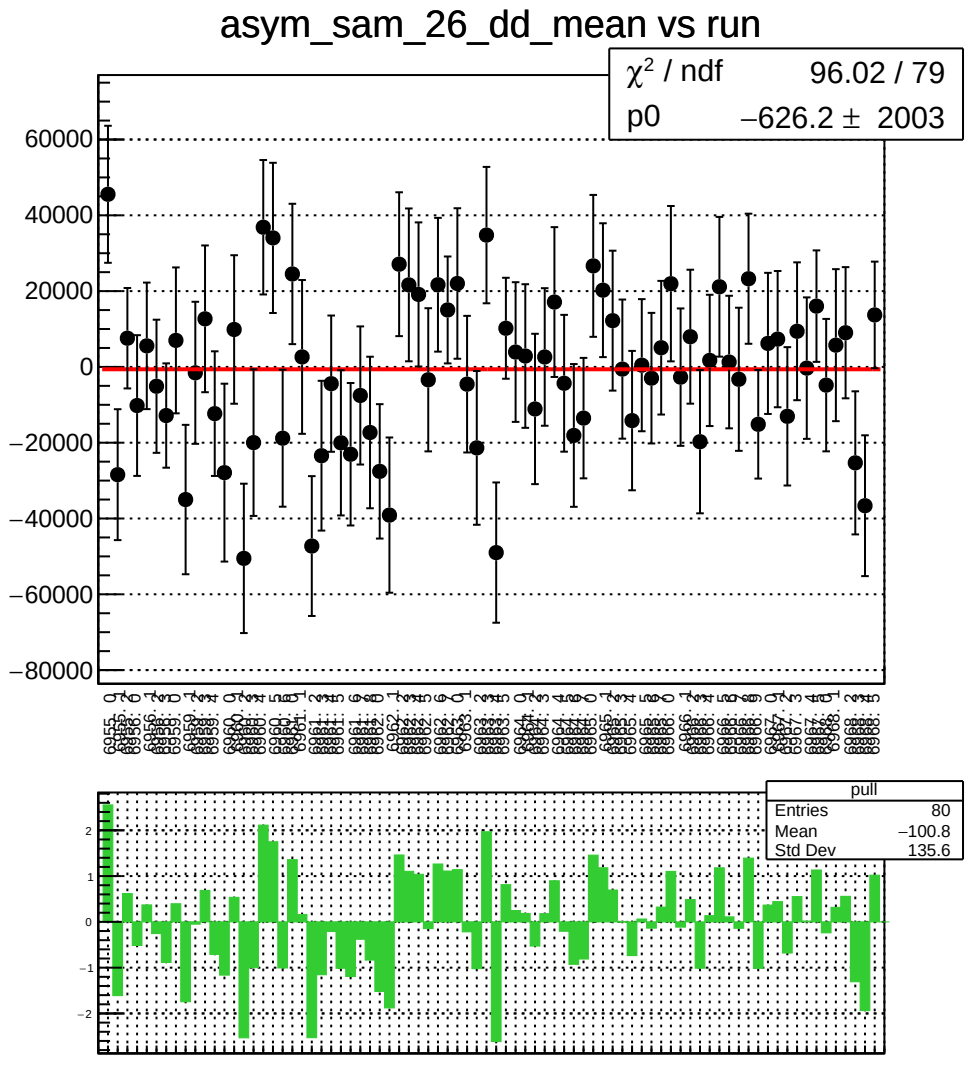

reg_asym_sam_26_dd_rms vs run
χ² / ndf 924.7 / 79
p0 208.9 ± 0.1671
220
215
210
205
200
195

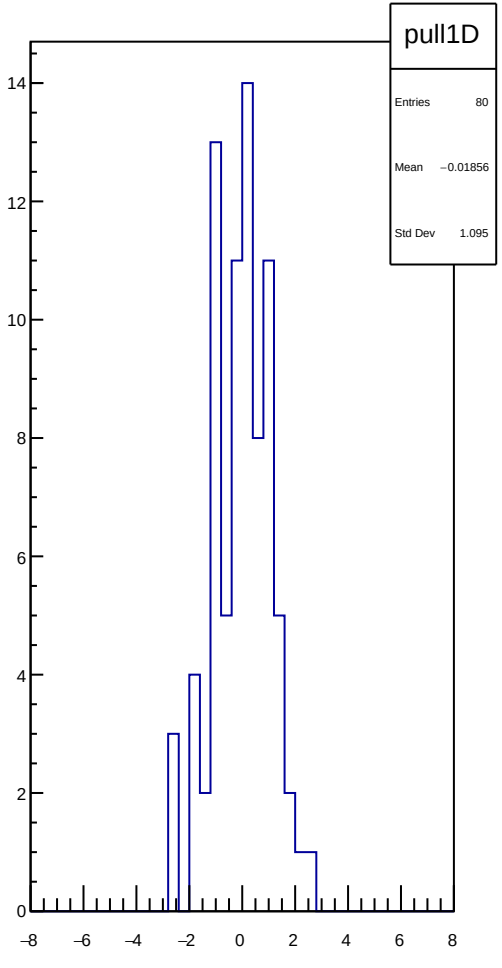

asym_sam_26_dd_correction_mean vs run
χ² / ndf 96.74 / 79
p0 585.8 ± 1989
pull
Entries 80
Mean −108.6
Std Dev 144.2

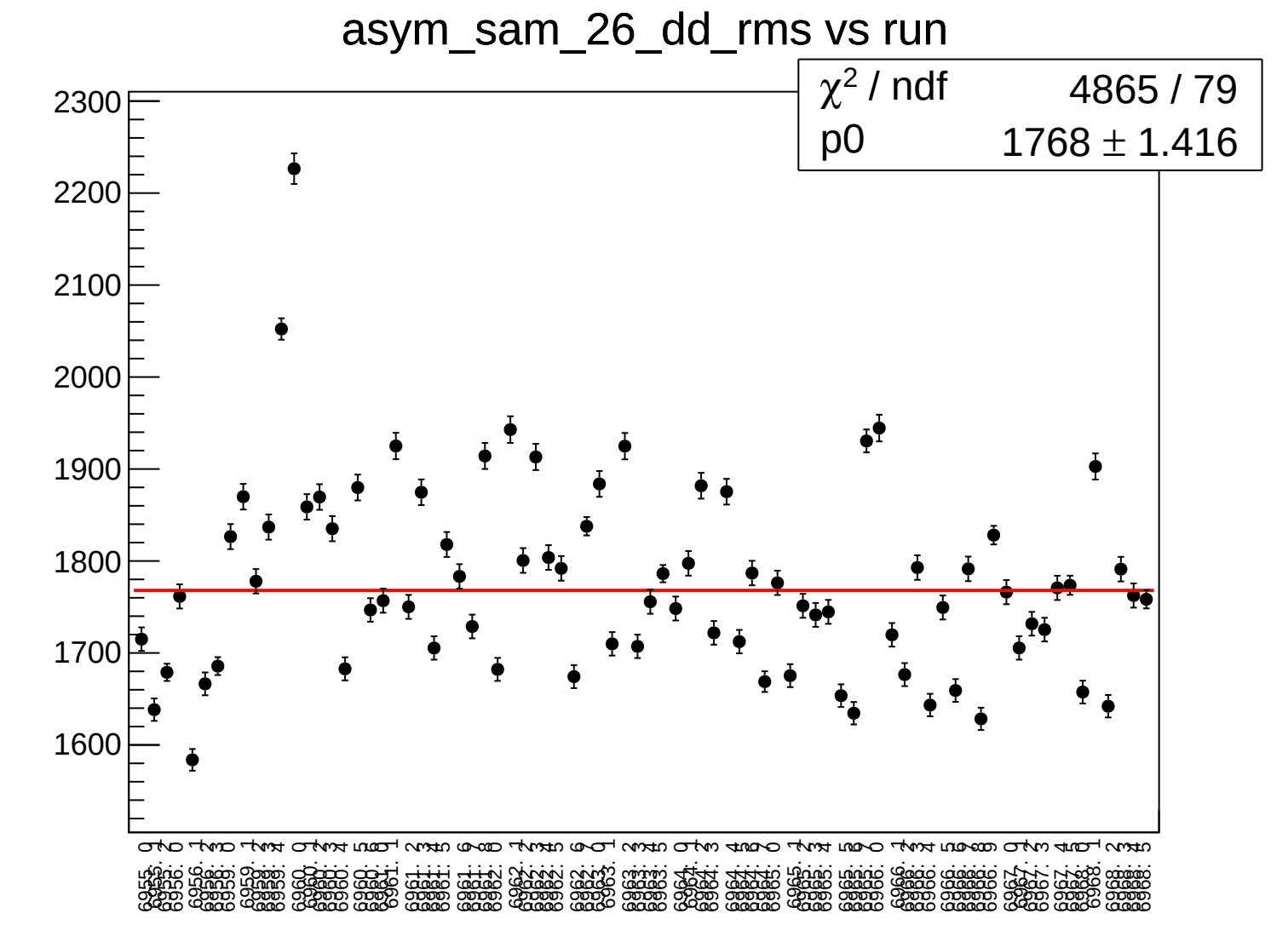

pull1D
Entries 80
Mean 0.01985
Std Dev 1.099

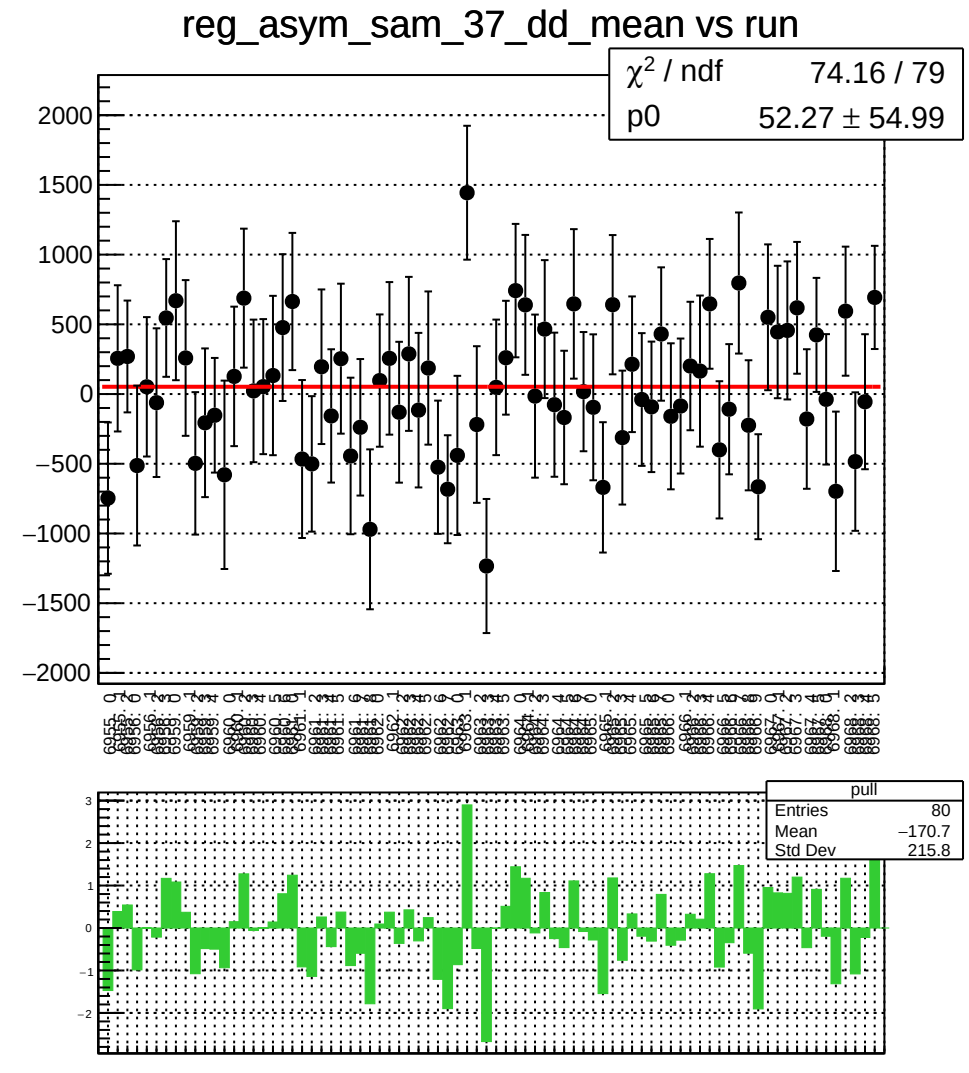
asym_sam_26_dd_correction_rms vs run

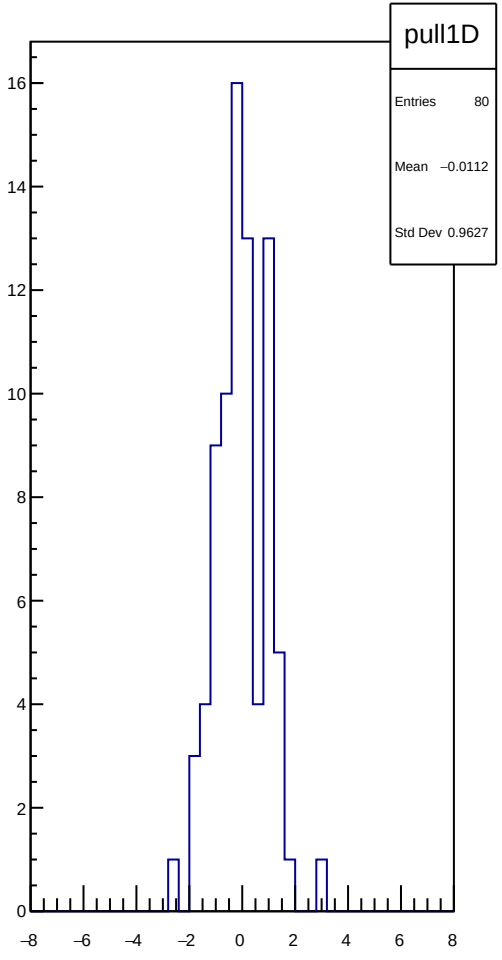


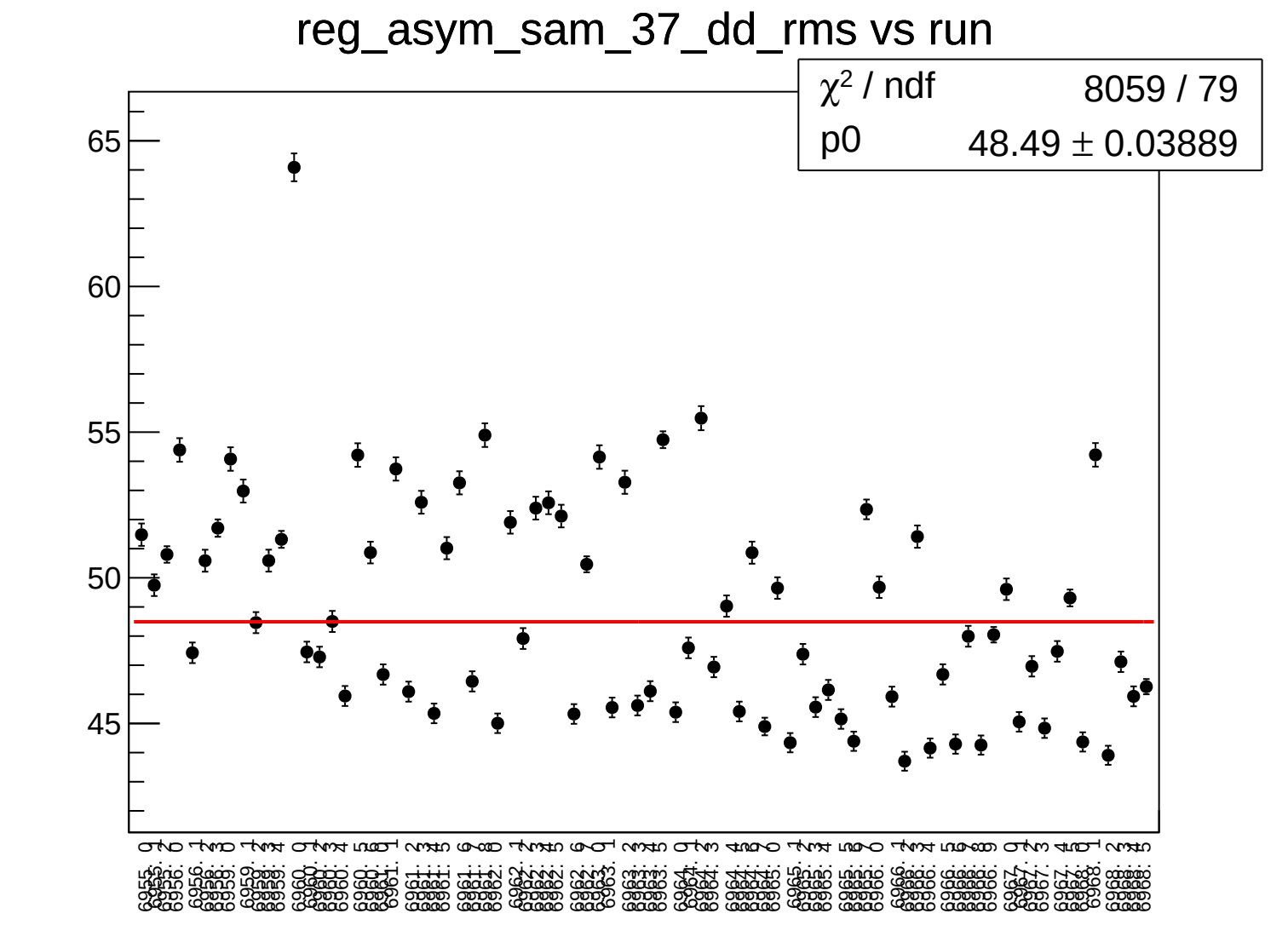

asym_sam_26_dd_mean vs run
χ² / ndf 96.02 / 79
p0 −626.2 ± 2003
pull
Entries 80
Mean −100.8
Std Dev 135.6

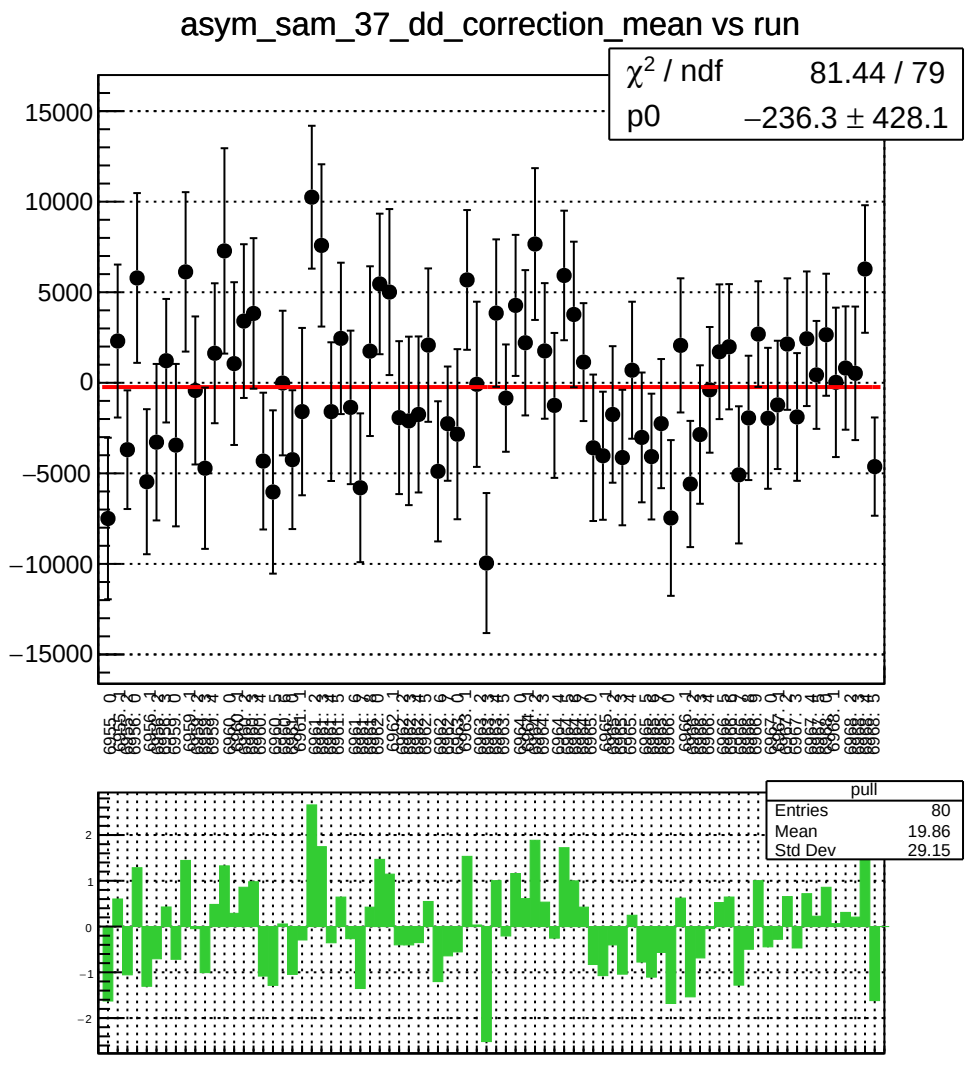

pull1D
Entries 80
Mean −0.01856
Std Dev 1.095

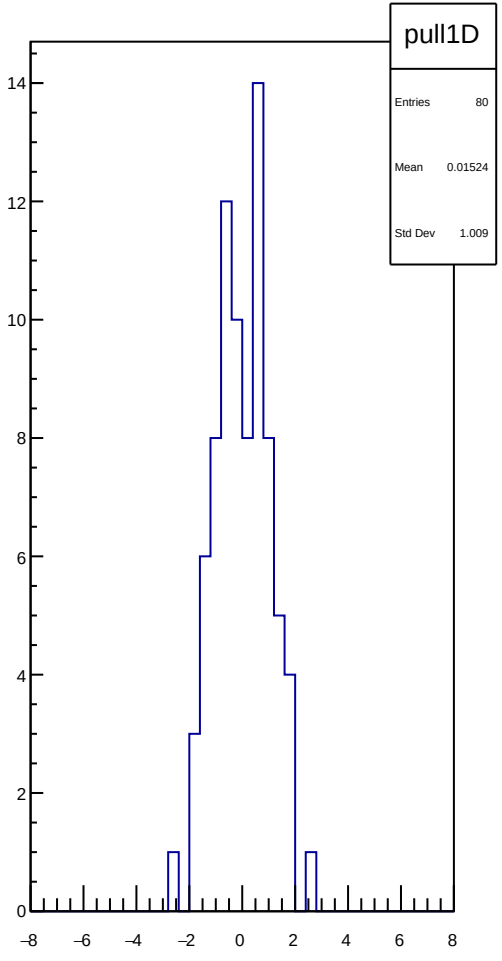

asym_sam_26_dd_rms vs run
χ² / ndf 4865 / 79
p0 1768 ± 1.416
2300
2200
2100
2000
1900
1800
1700
1600

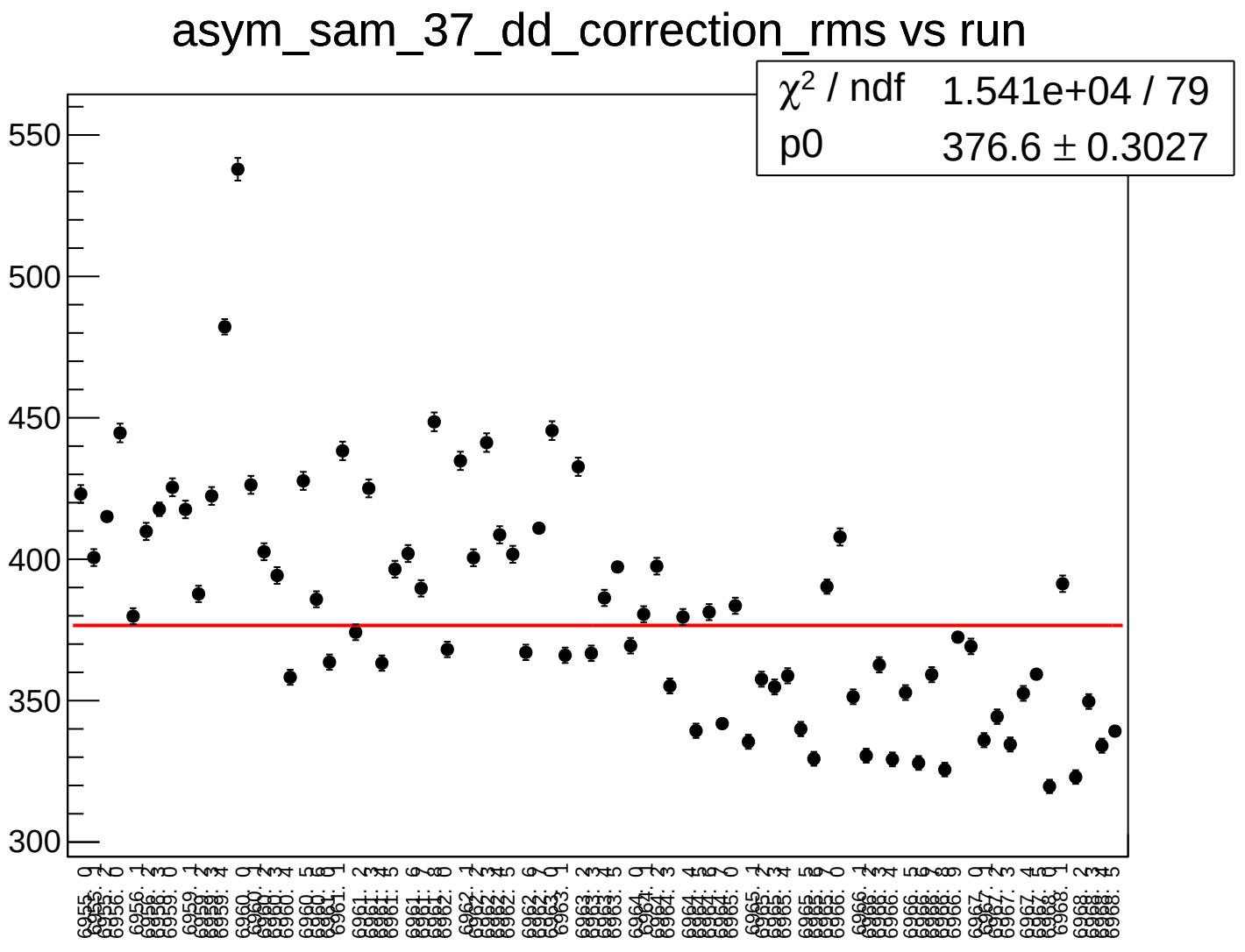

reg_asym_sam_37_dd_mean vs run
χ² / ndf 74.16 / 79
p0 52.27 ± 54.99
pull
Entries 80
Mean −170.7
Std Dev 215.8

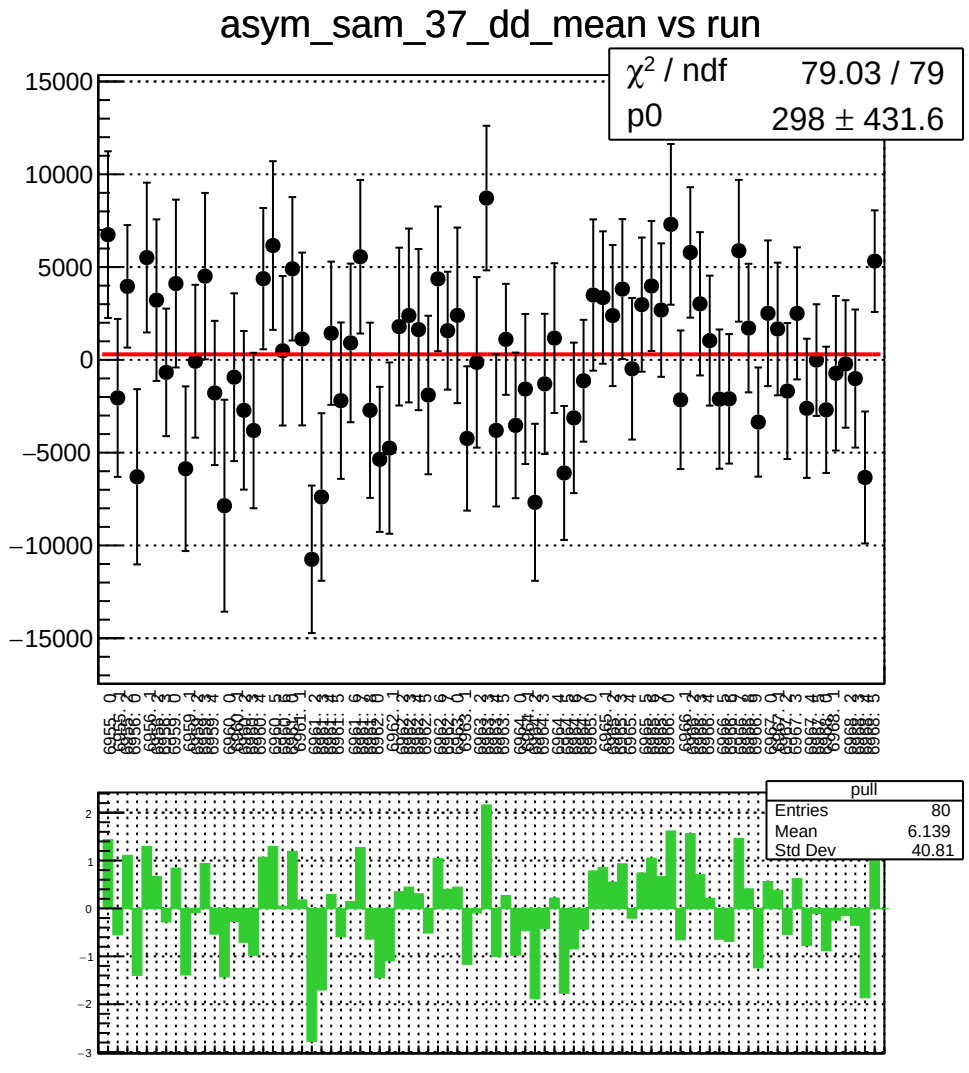

pull1D
Entries 80
Mean −0.0112
Std Dev 0.9627

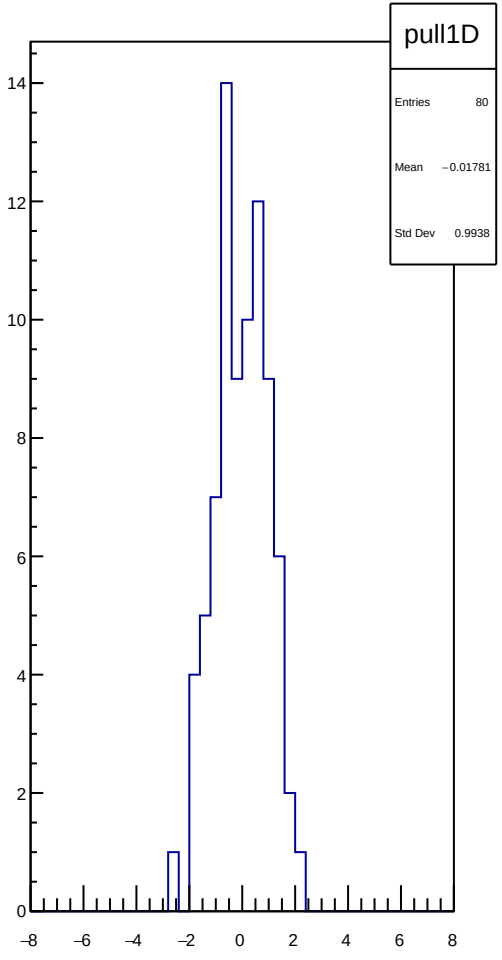

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 8059 / 79
p0 48.49 ± 0.03889
65
60
55
50
45

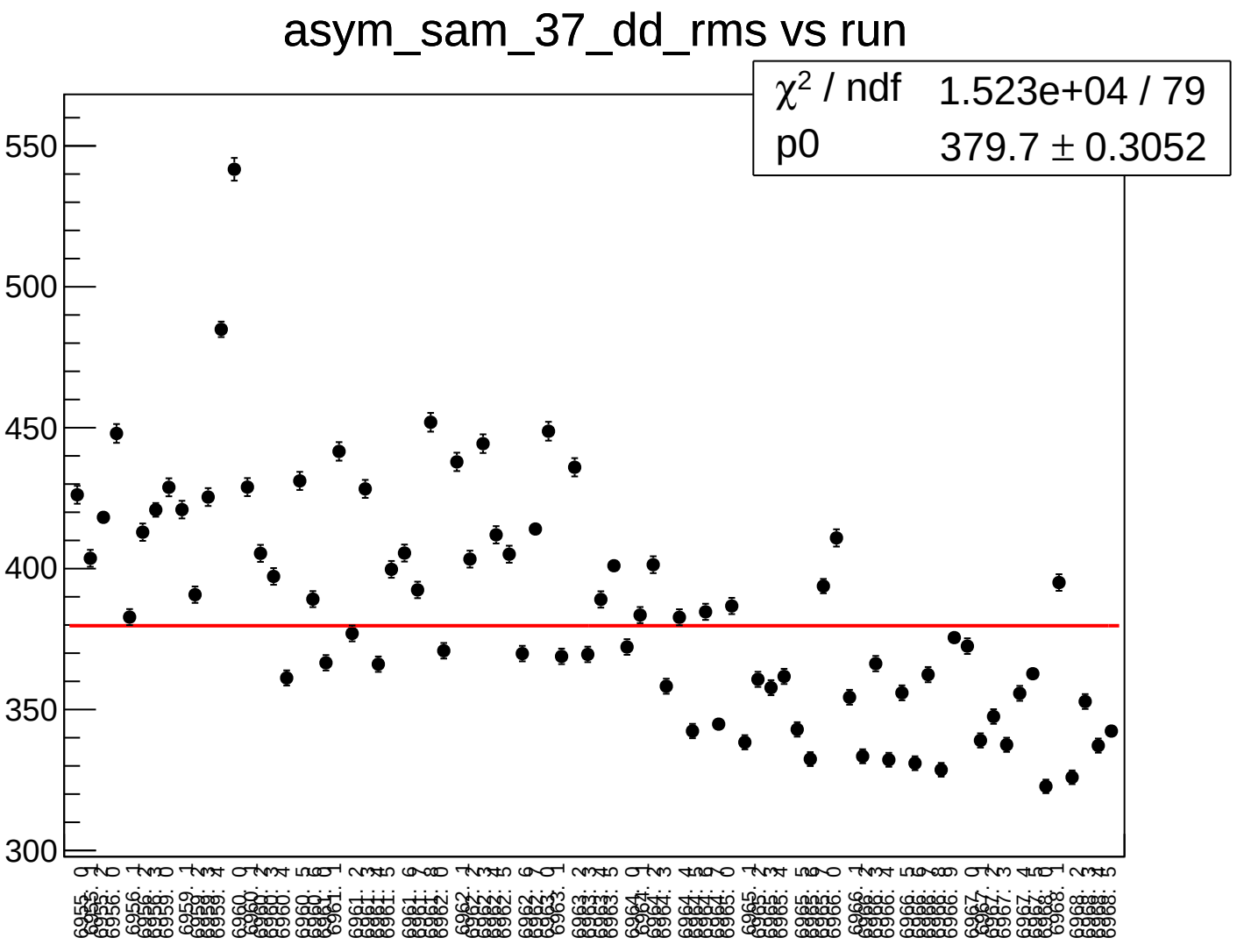

asym_sam_37_dd_correction_mean vs run
χ² / ndf 81.44 / 79
p0 −236.3 ± 428.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 80
Mean 19.86
Std Dev 29.15
2
1
0
−1
−2

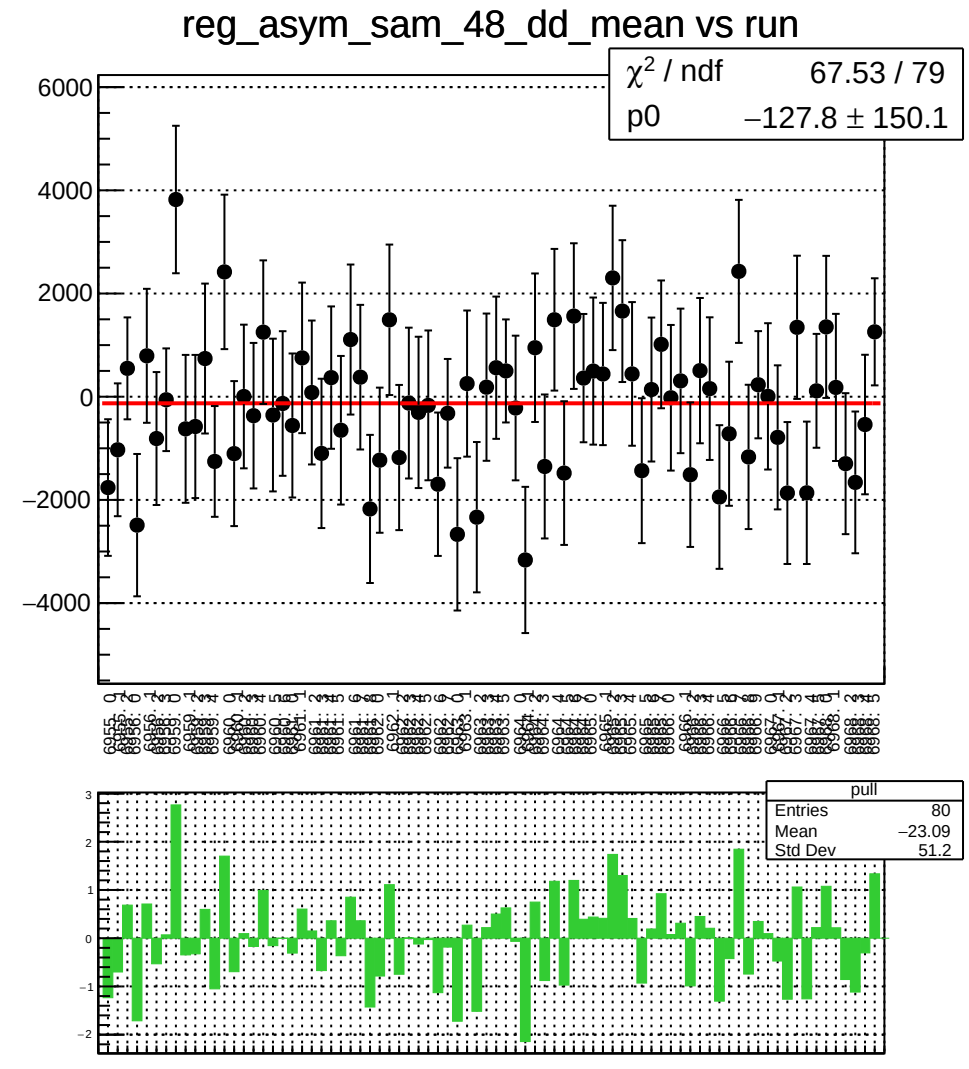

pull1D
Entries 80
Mean 0.01524
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

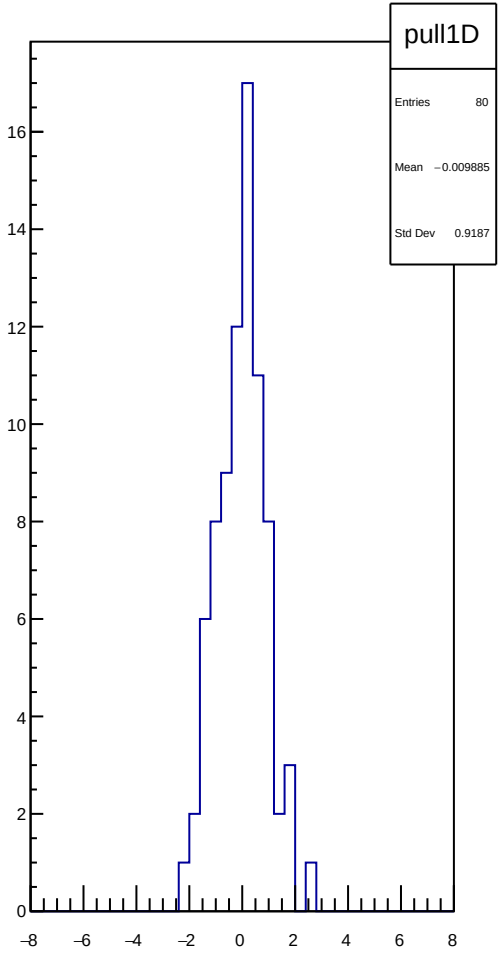

asym_sam_37_dd_correction_rms vs run
χ² / ndf 1.541e+04 / 79
p0 376.6 ± 0.3027
550
500
450
400
350
300

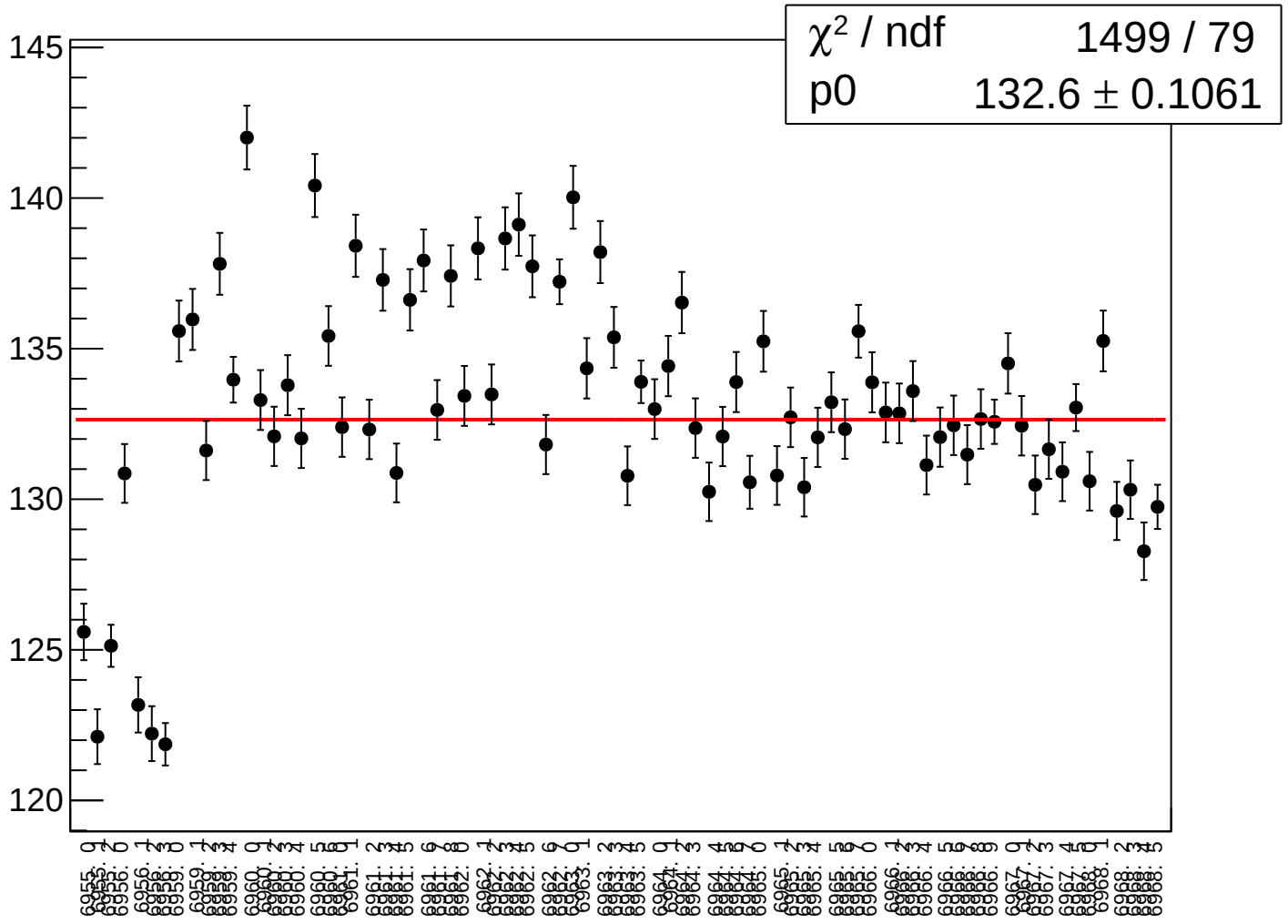

asym_sam_37_dd_mean vs run
χ² / ndf 79.03 / 79
p0 298 ± 431.6
pull
Entries 80
Mean 6.139
Std Dev 40.81

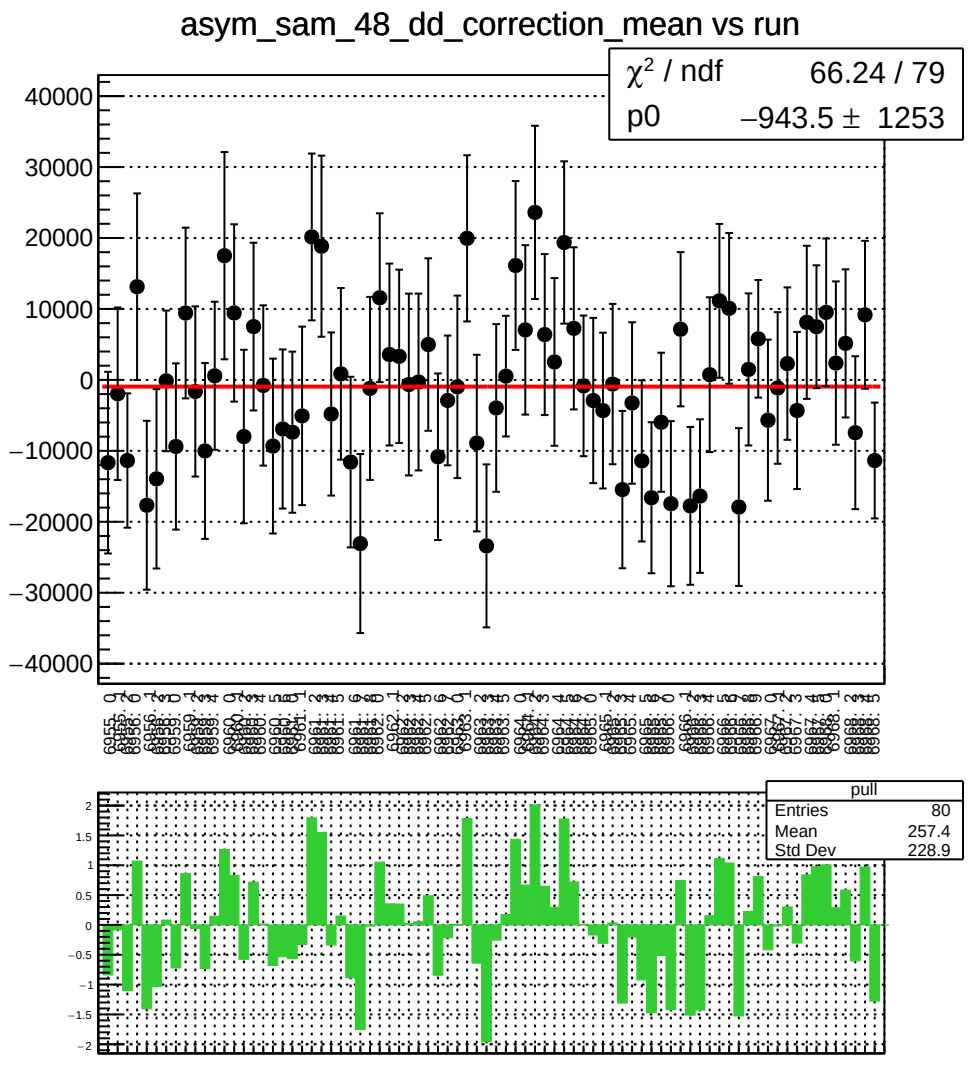

pull1D
Entries 80
Mean −0.01781
Std Dev 0.9938

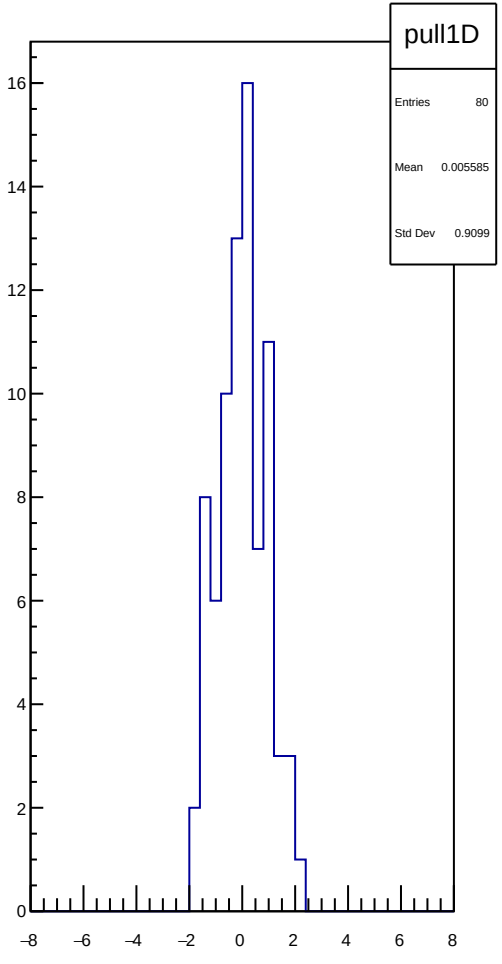

asym_sam_37_dd_rms vs run
χ² / ndf 1.523e+04 / 79
p0 379.7 ± 0.3052
550
500
450
400
350
300

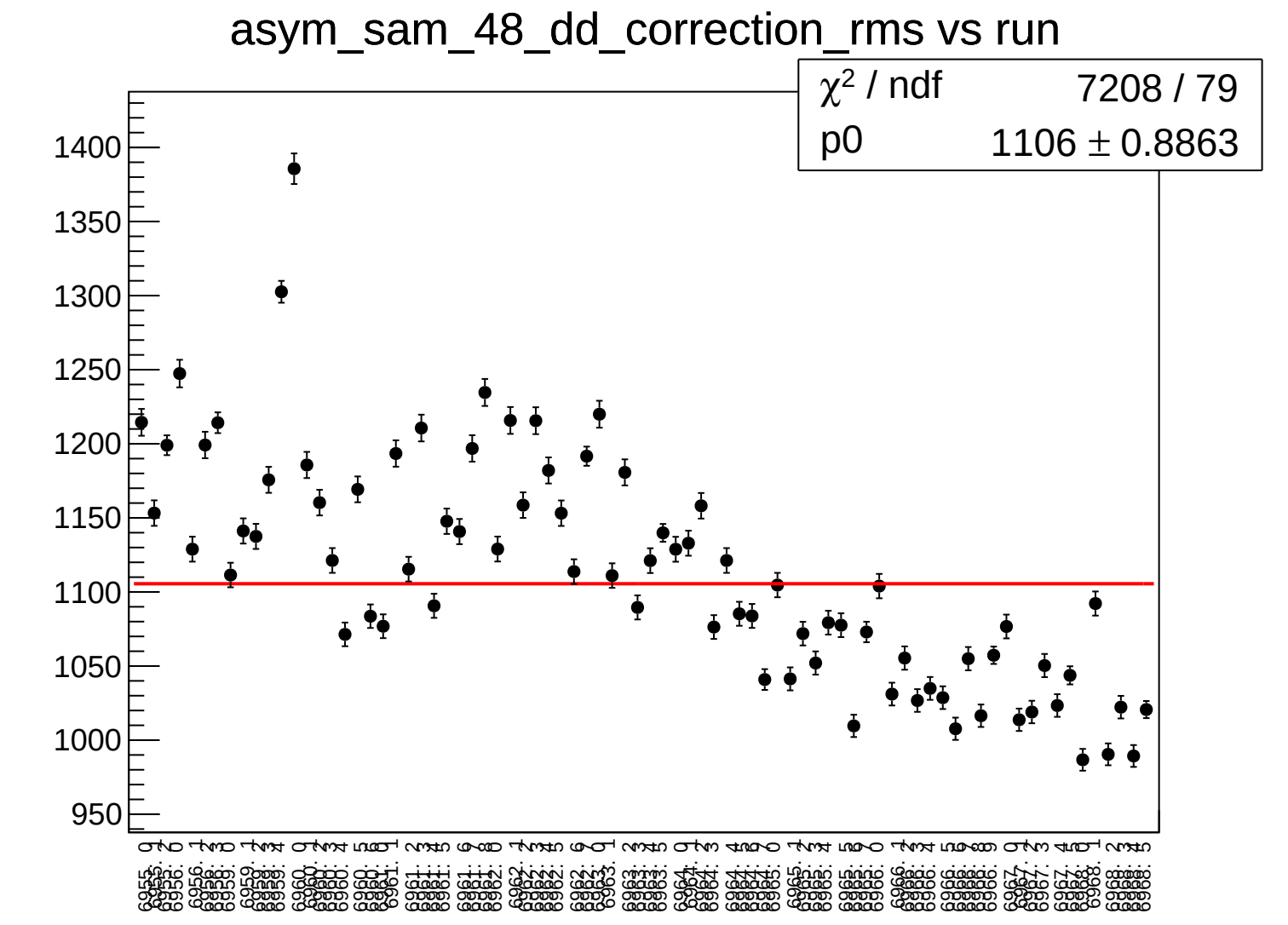

reg_asym_sam_48_dd_mean vs run
χ² / ndf 67.53 / 79
p0 −127.8 ± 150.1
6000
4000
2000
0
−2000
−4000
pull
Entries 80
Mean −23.09
Std Dev 51.2
3
2
1
0
−1
−2

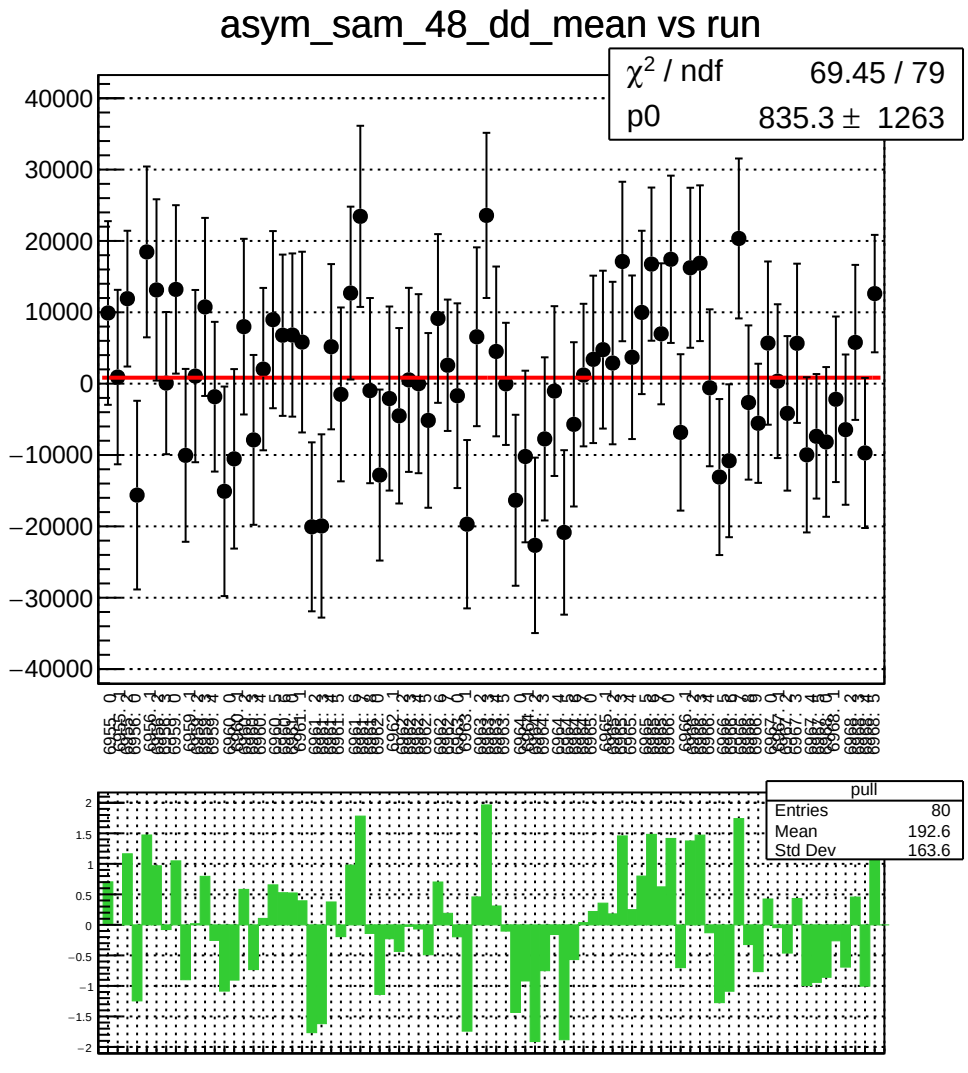

pull1D
Entries 80
Mean −0.009885
Std Dev 0.9187
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

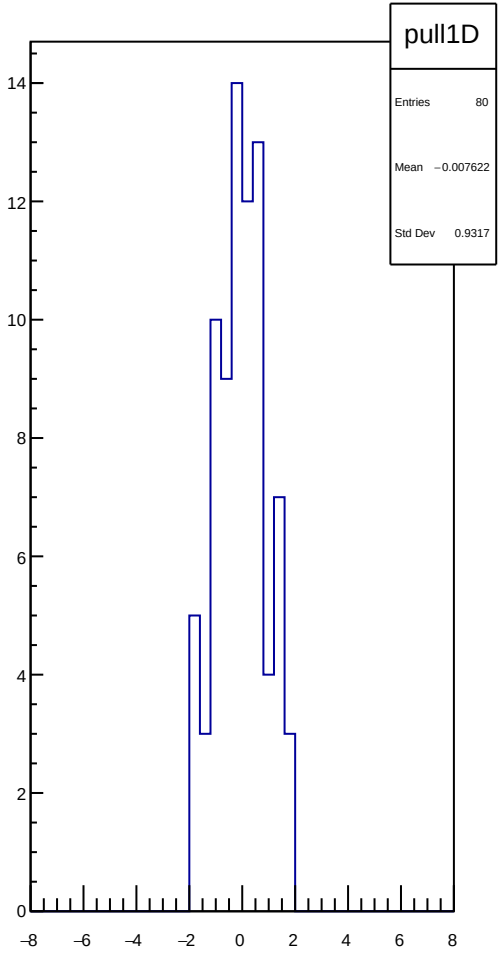

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1499 / 79
p0 132.6 ± 0.1061
145
140
135
130
125
120

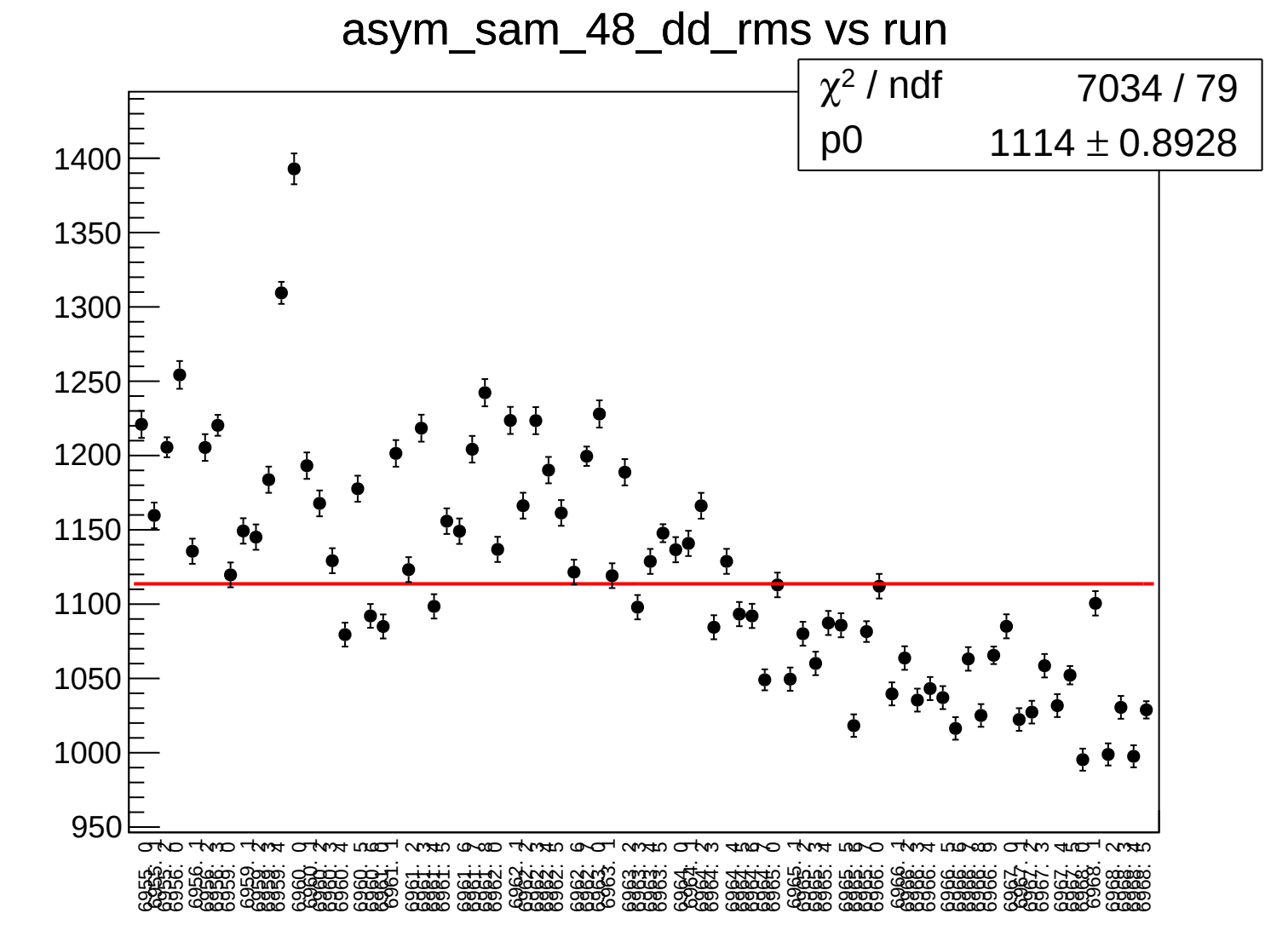

asym_sam_48_dd_correction_mean vs run
χ² / ndf 66.24 / 79
p0 −943.5 ± 1253
pull
Entries 80
Mean 257.4
Std Dev 228.9

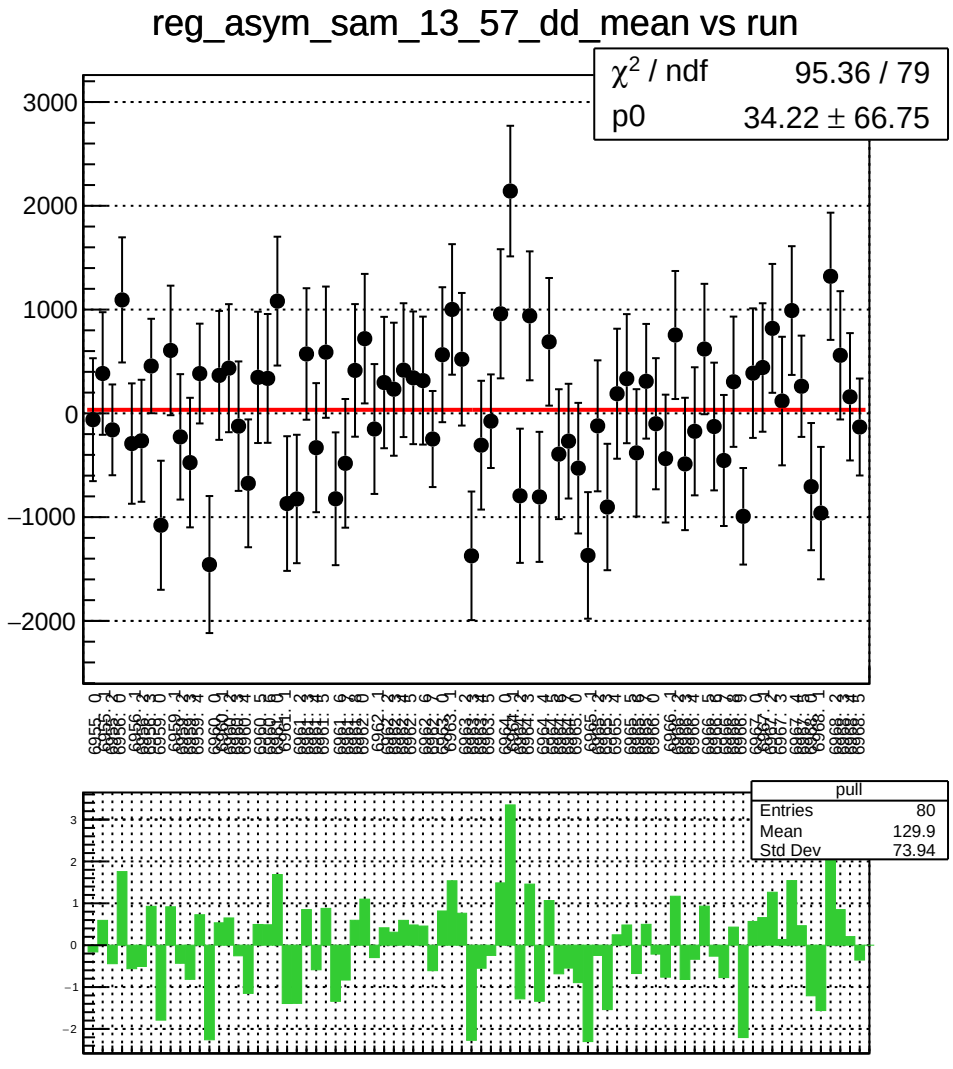

pull1D
Entries 80
Mean 0.005585
Std Dev 0.9099

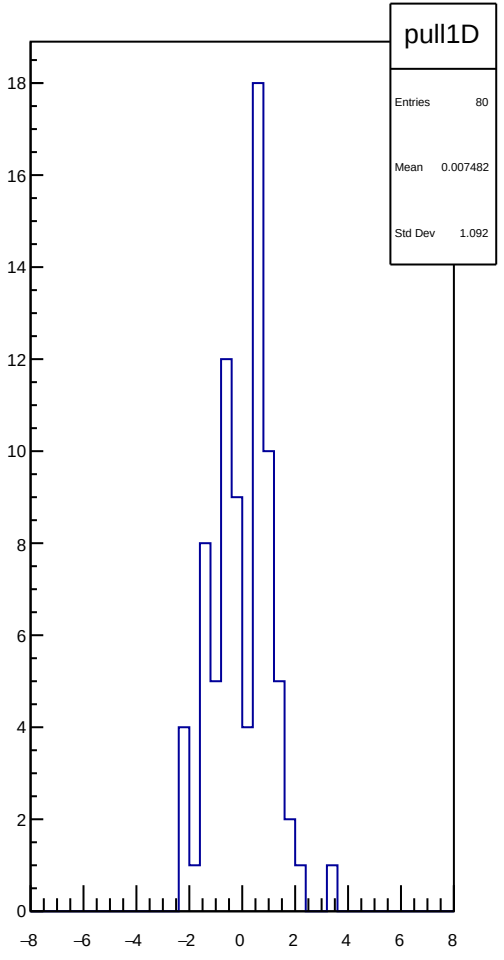

asym_sam_48_dd_correction_rms vs run
χ² / ndf 7208 / 79
p0 1106 ± 0.8863
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

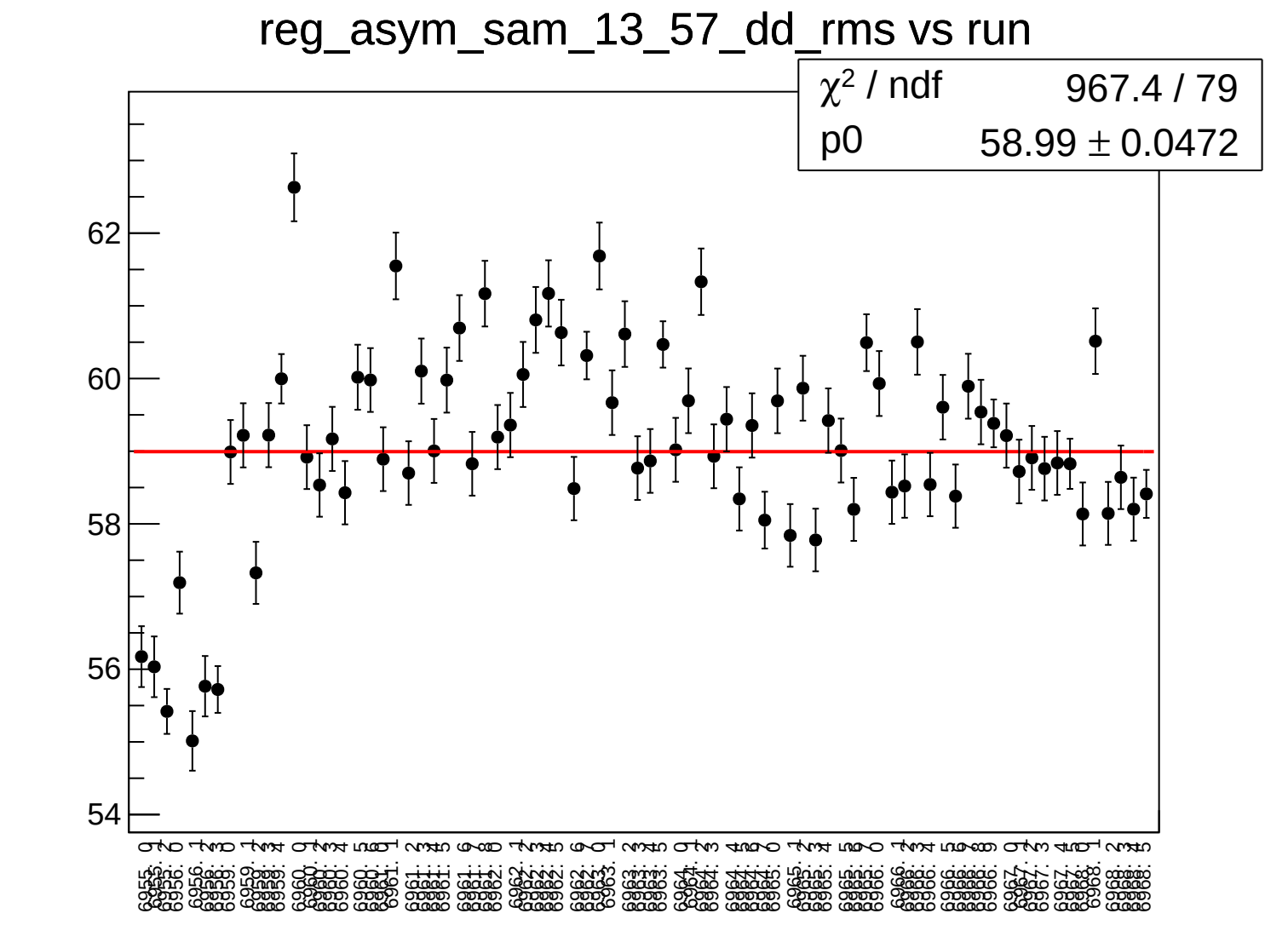

asym_sam_48_dd_mean vs run
χ² / ndf 69.45 / 79
p0 835.3 ± 1263
pull
Entries 80
Mean 192.6
Std Dev 163.6

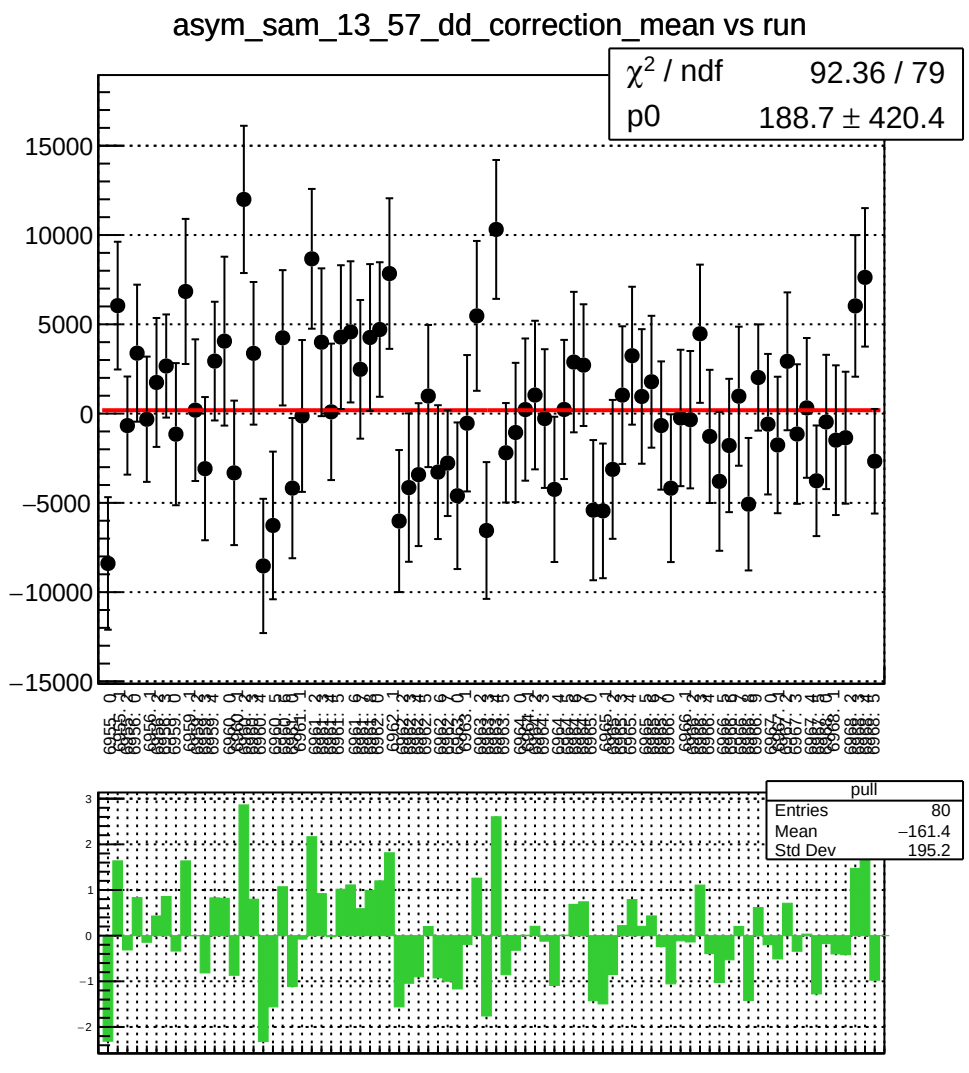

pull1D
Entries 80
Mean −0.007622
Std Dev 0.9317

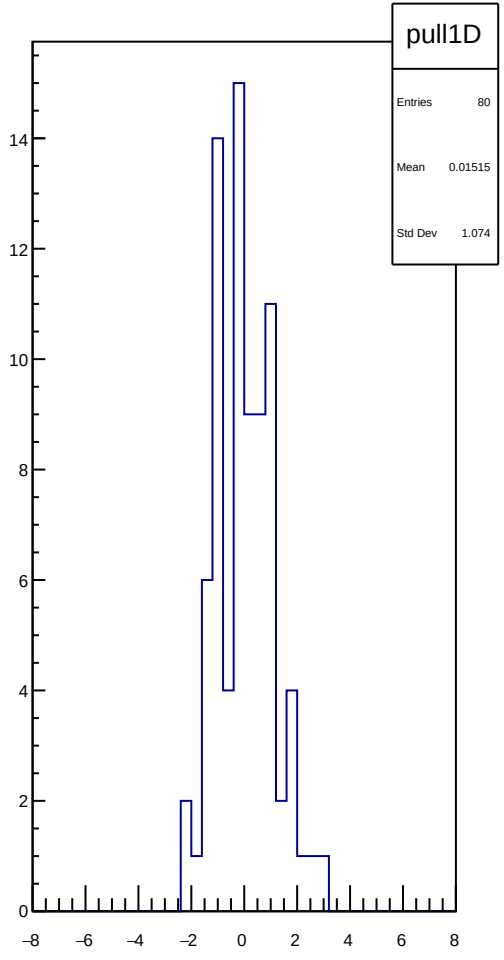

asym_sam_48_dd_rms vs run
χ² / ndf 7034 / 79
p0 1114 ± 0.8928
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

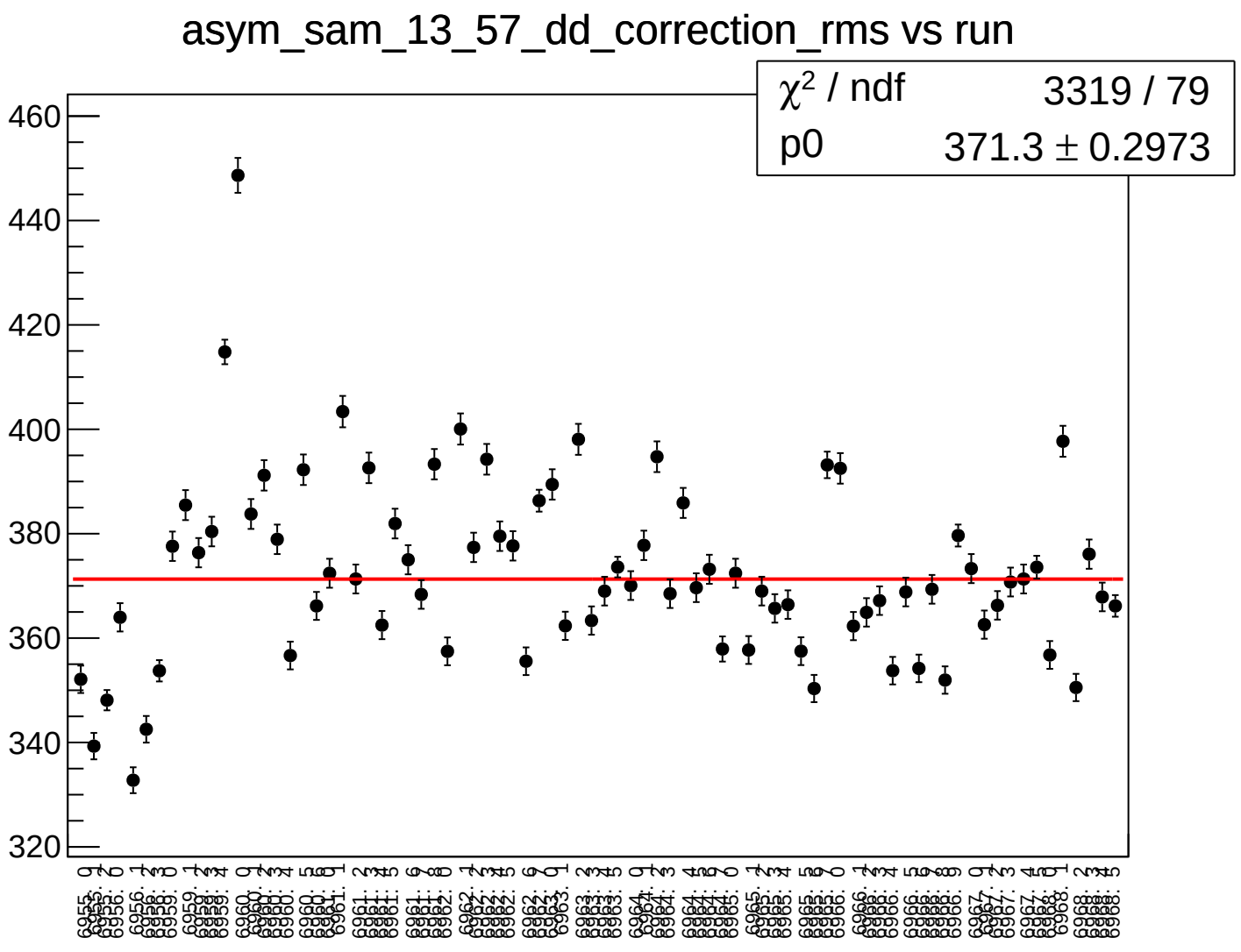

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 95.36 / 79
p0 34.22 ± 66.75
pull
Entries 80
Mean 129.9
Std Dev 73.94

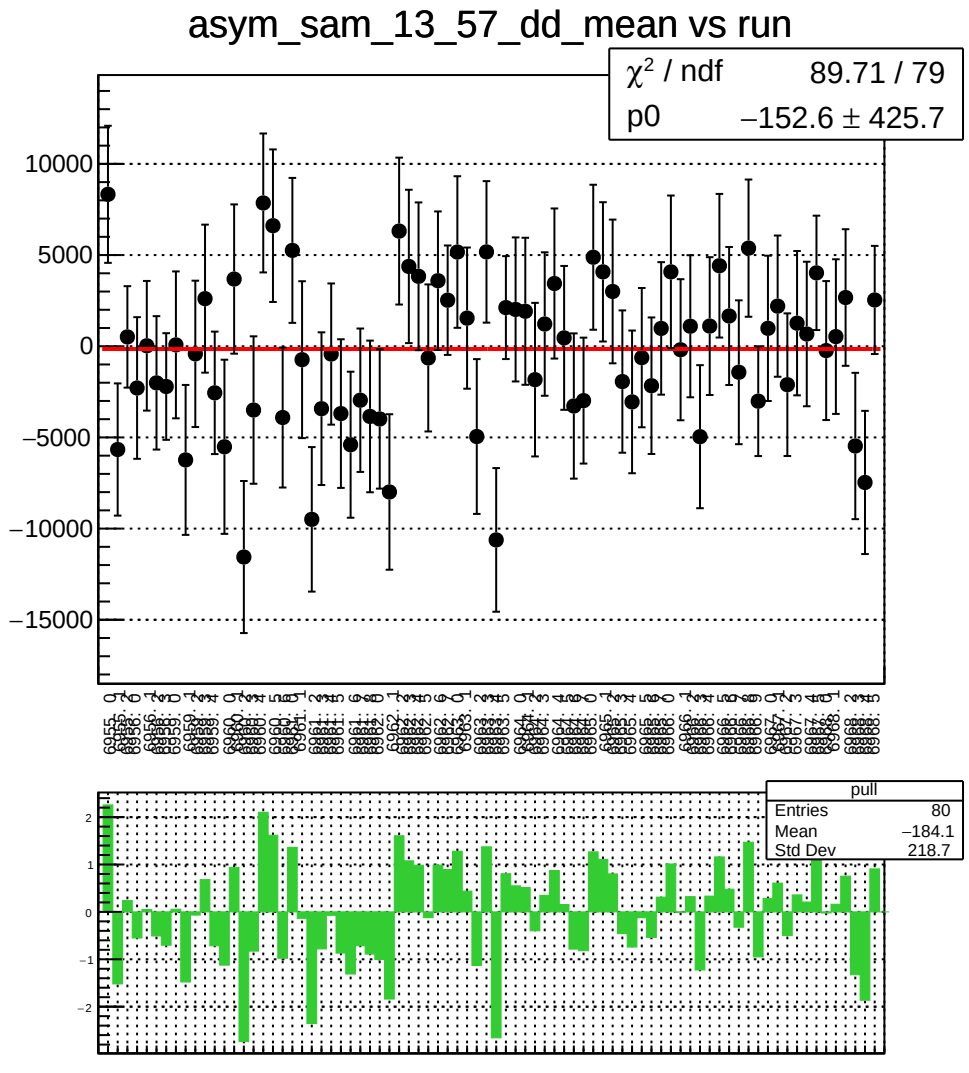

pull1D
Entries 80
Mean 0.007482
Std Dev 1.092

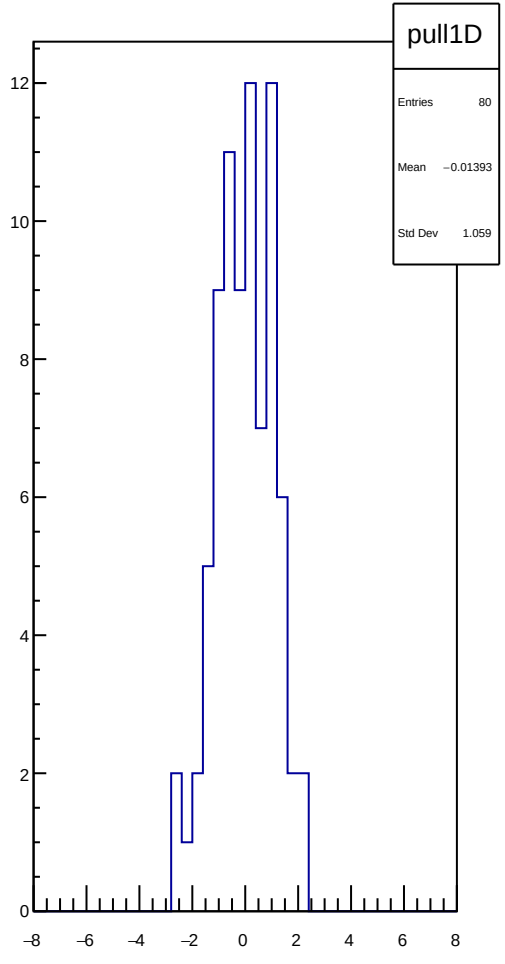

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 967.4 / 79
p0 58.99 ± 0.0472
62
60
58
56
54

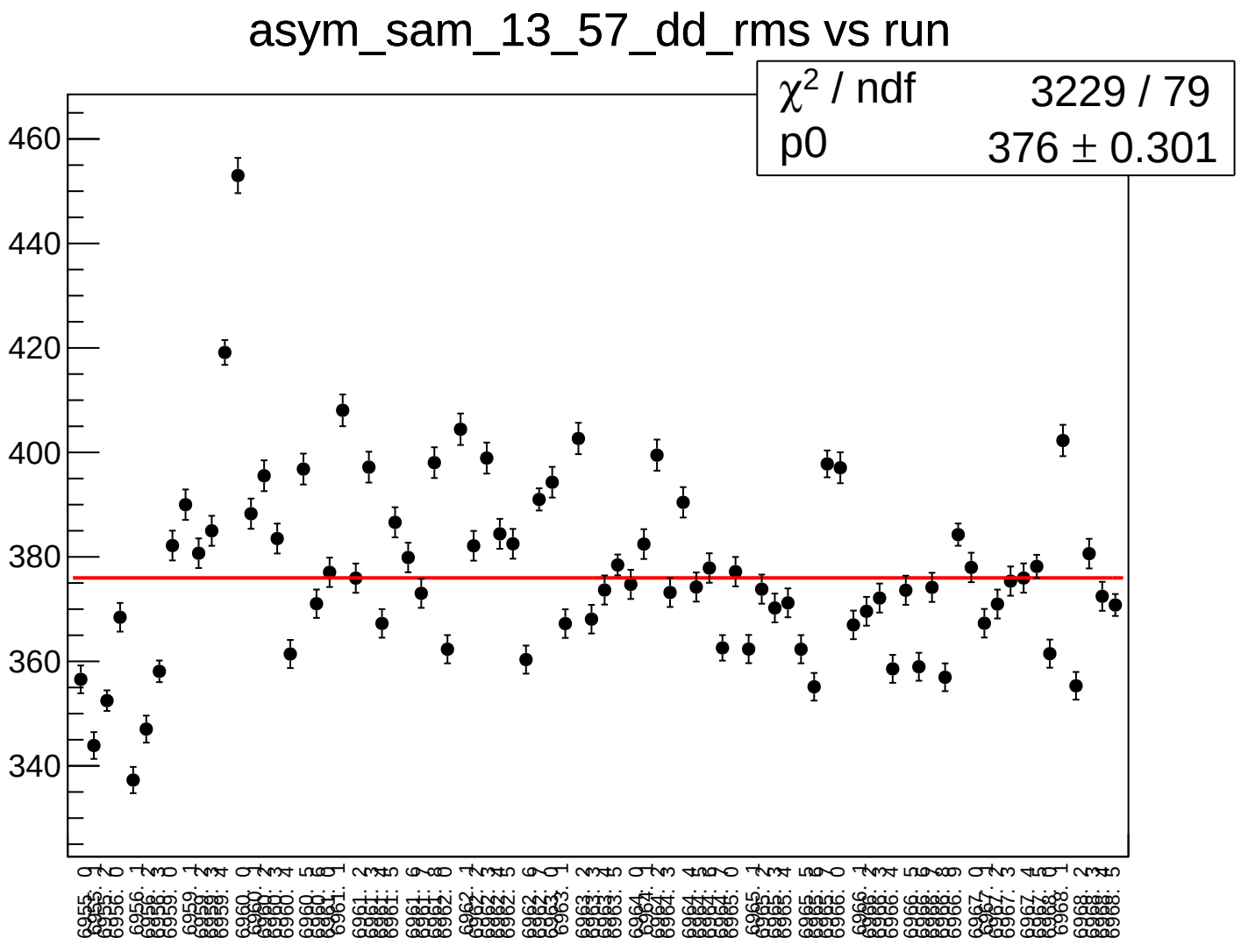

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 92.36 / 79
p0 188.7 ± 420.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 80
Mean −161.4
Std Dev 195.2
3
2
1
0
−1
−2

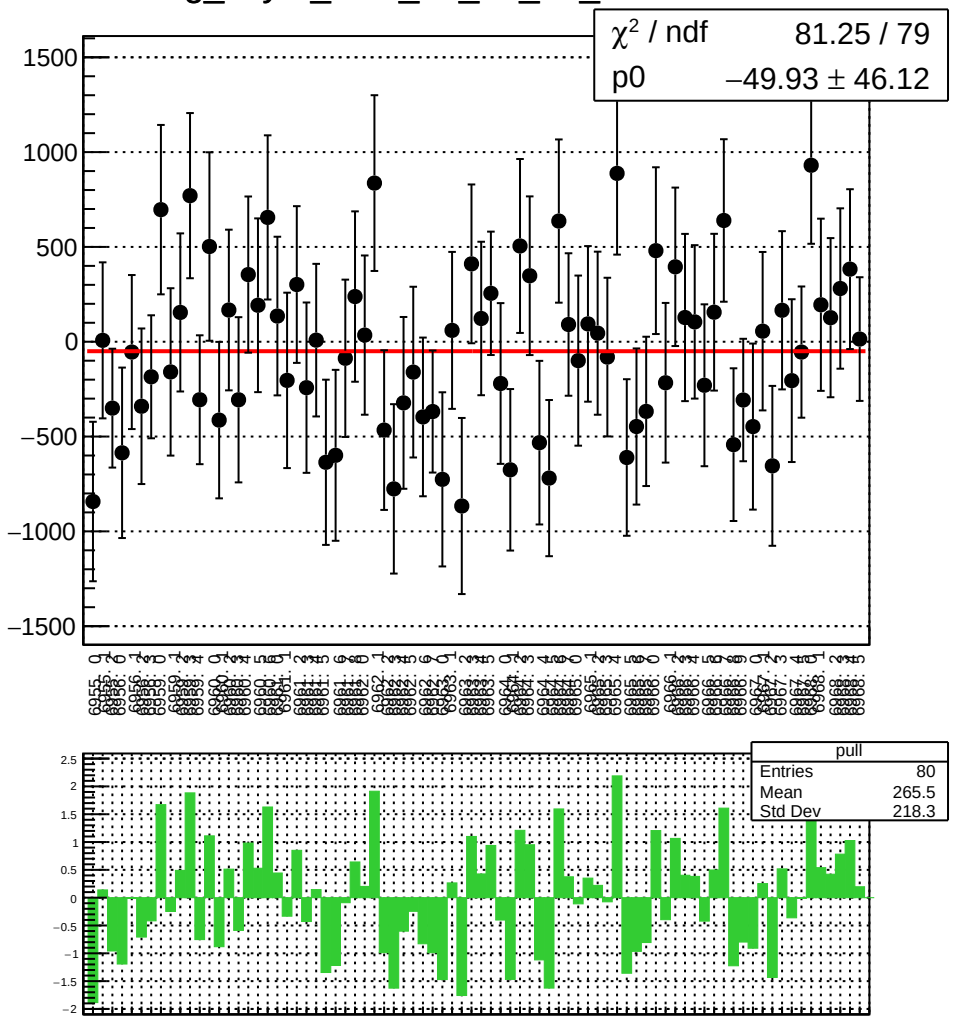

pull1D
Entries 80
Mean 0.01515
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

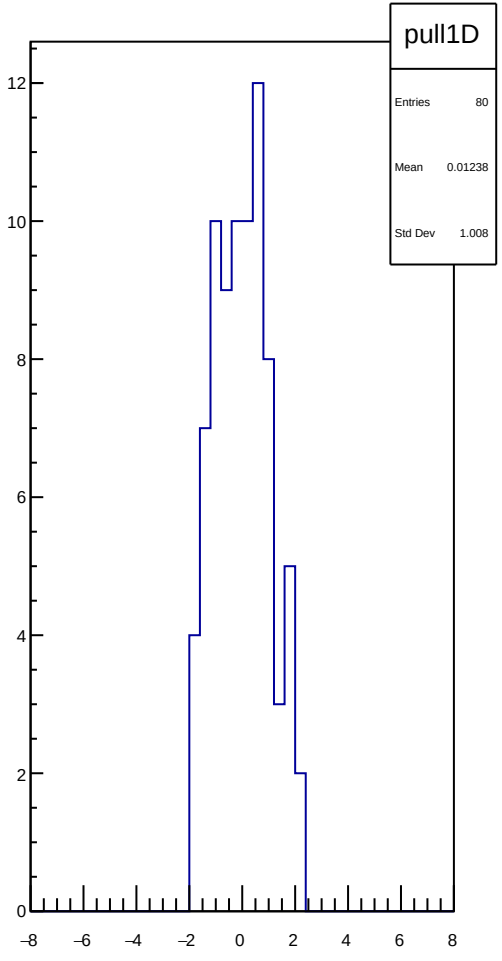

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 3319 / 79
p0 371.3 ± 0.2973
460
440
420
400
380
360
340
320

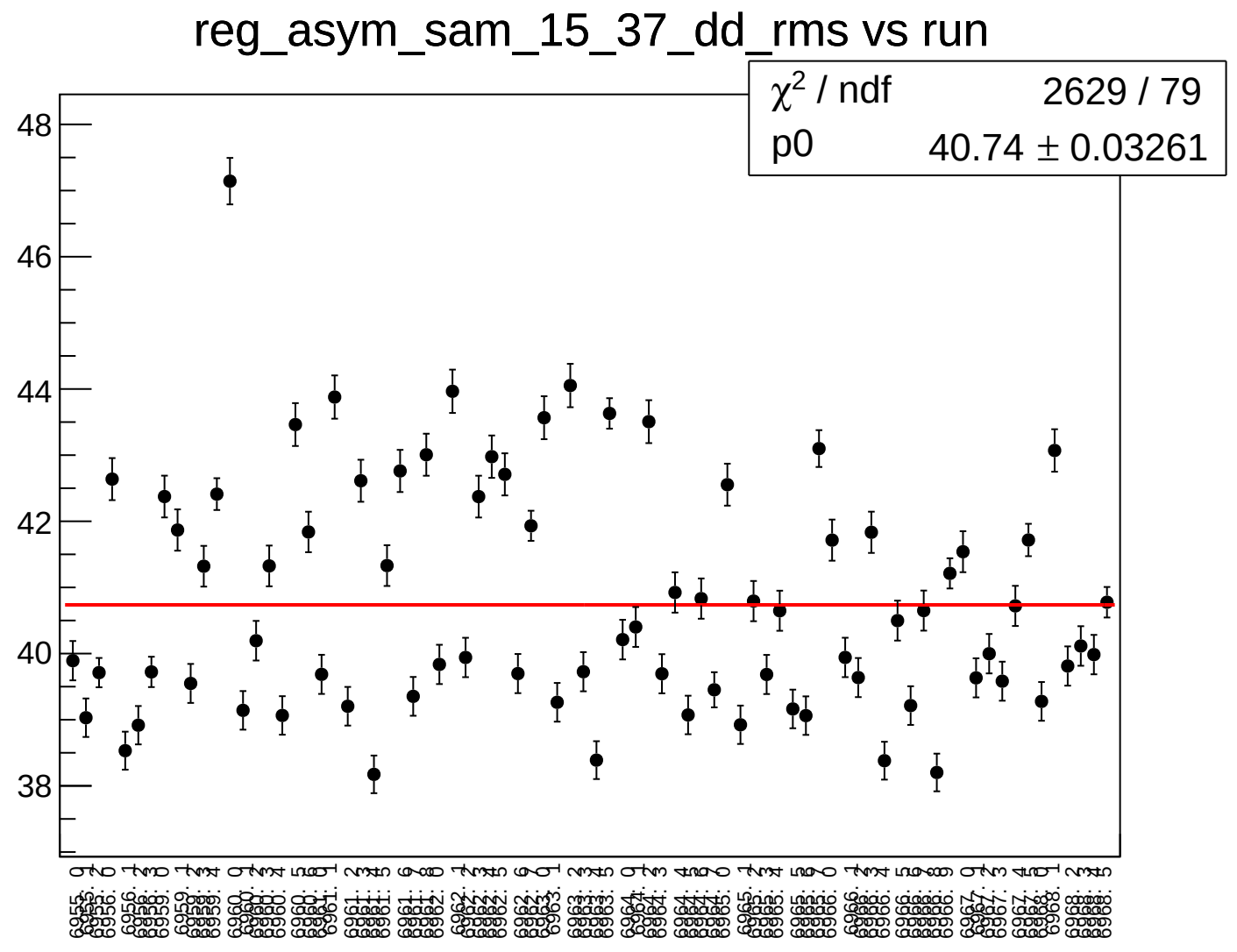

asym_sam_13_57_dd_mean vs run
χ² / ndf 89.71 / 79
p0 −152.6 ± 425.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 80
Mean −184.1
Std Dev 218.7
2
1
0
−1
−2

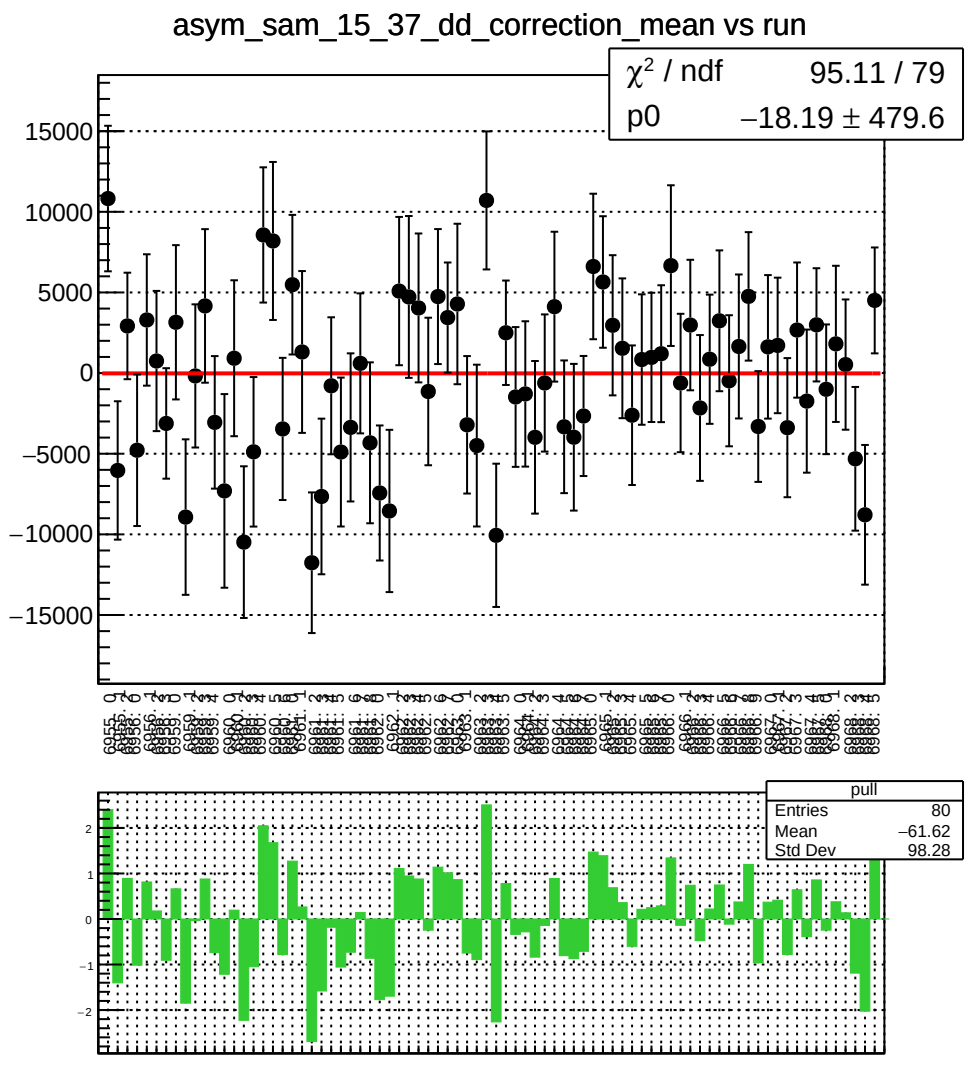

pull1D
Entries 80
Mean −0.01393
Std Dev 1.059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

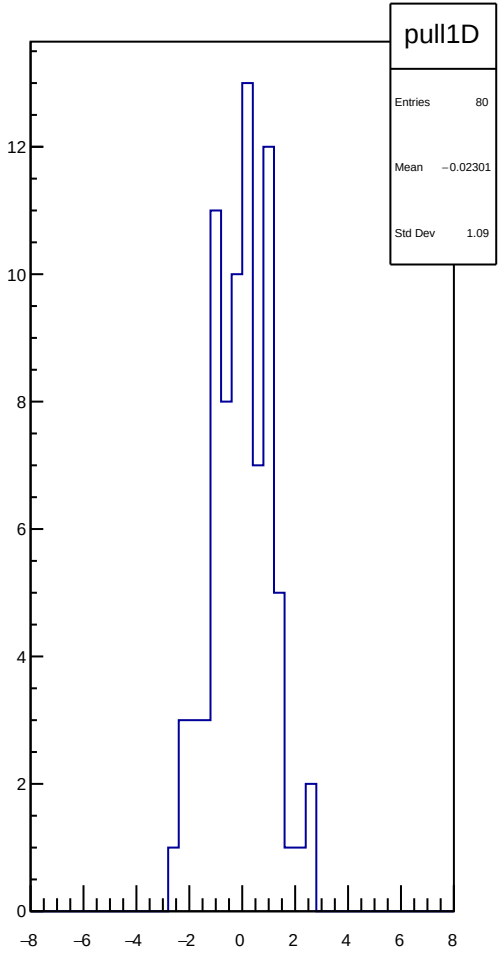

asym_sam_13_57_dd_rms vs run
χ² / ndf 3229 / 79
p0 376 ± 0.301
460
440
420
400
380
360
340

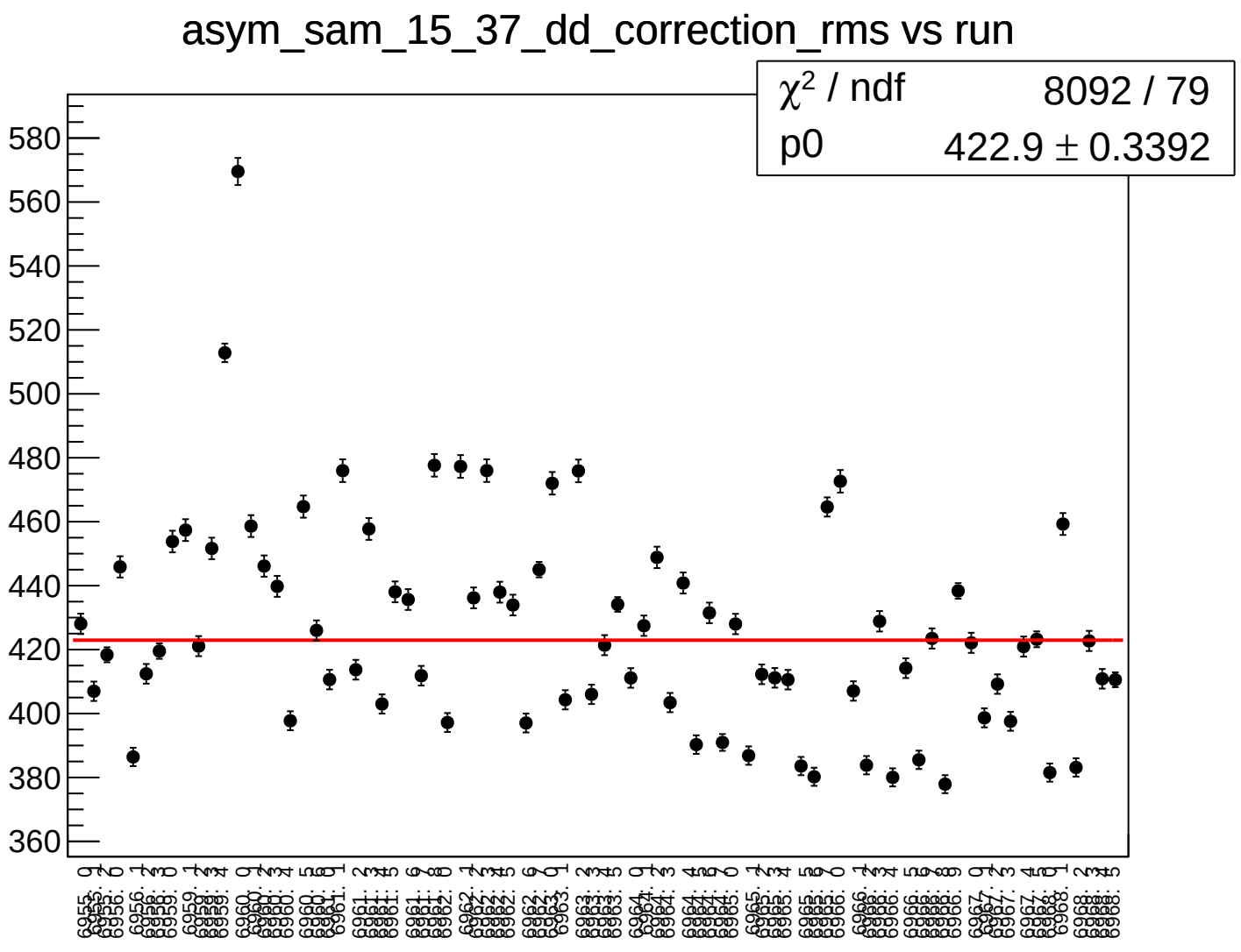

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 81.25 / 79
p0 −49.93 ± 46.12
pull
Entries 80
Mean 265.5
Std Dev 218.3

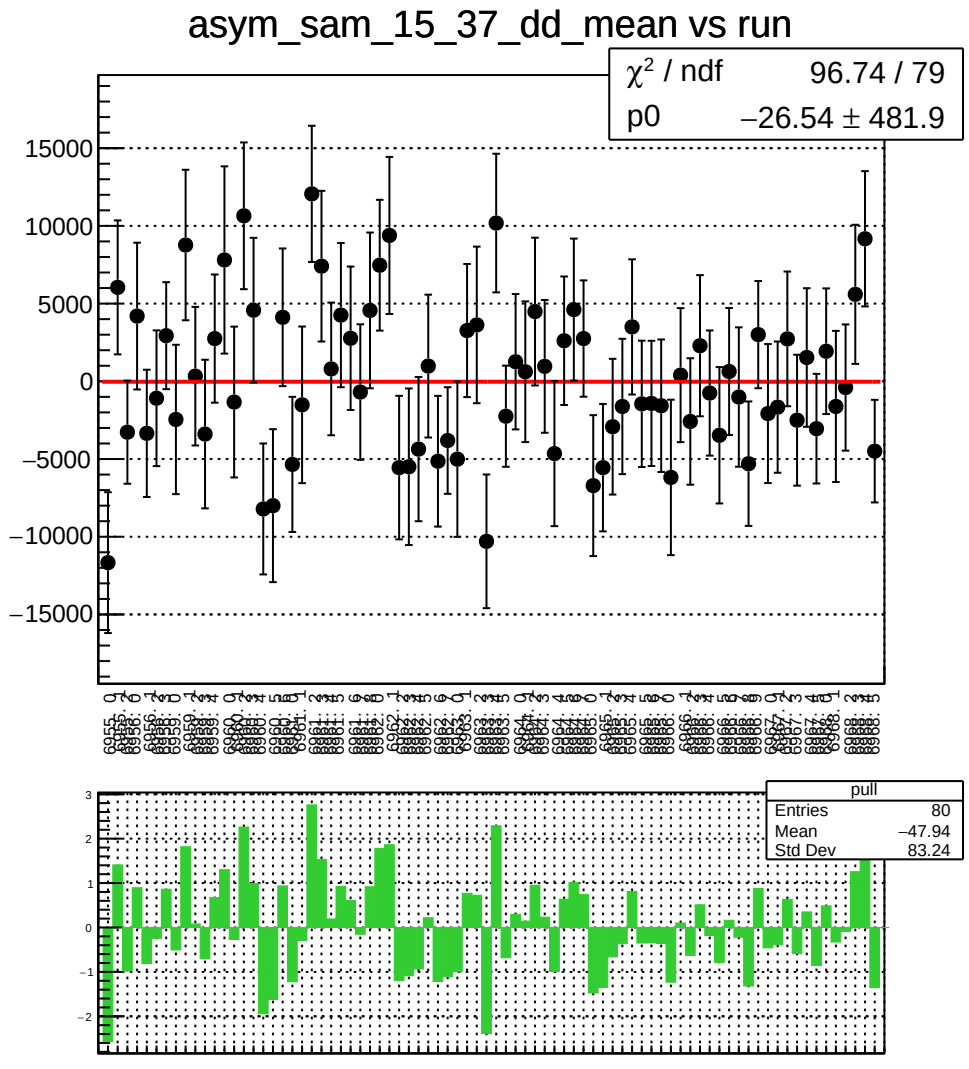

pull1D
Entries 80
Mean 0.01238
Std Dev 1.008

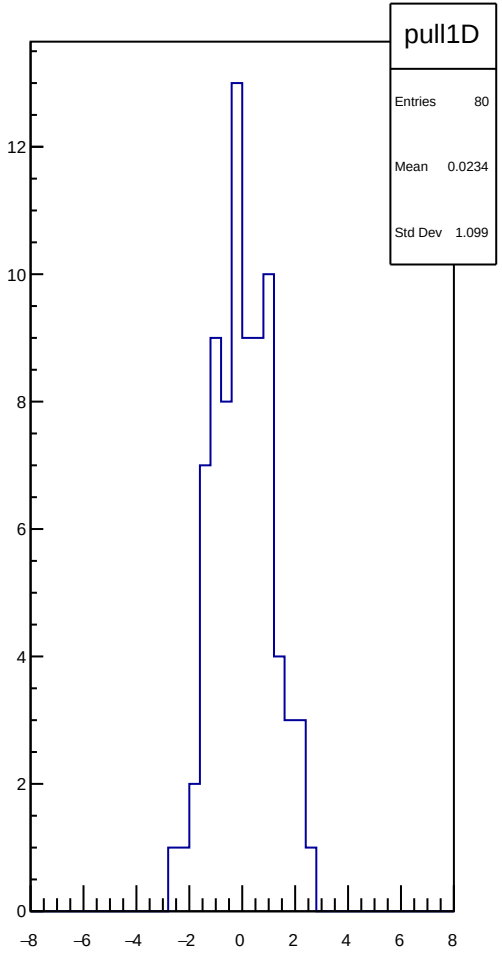

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2629 / 79
p0 40.74 ± 0.03261
48
46
44
42
40
38

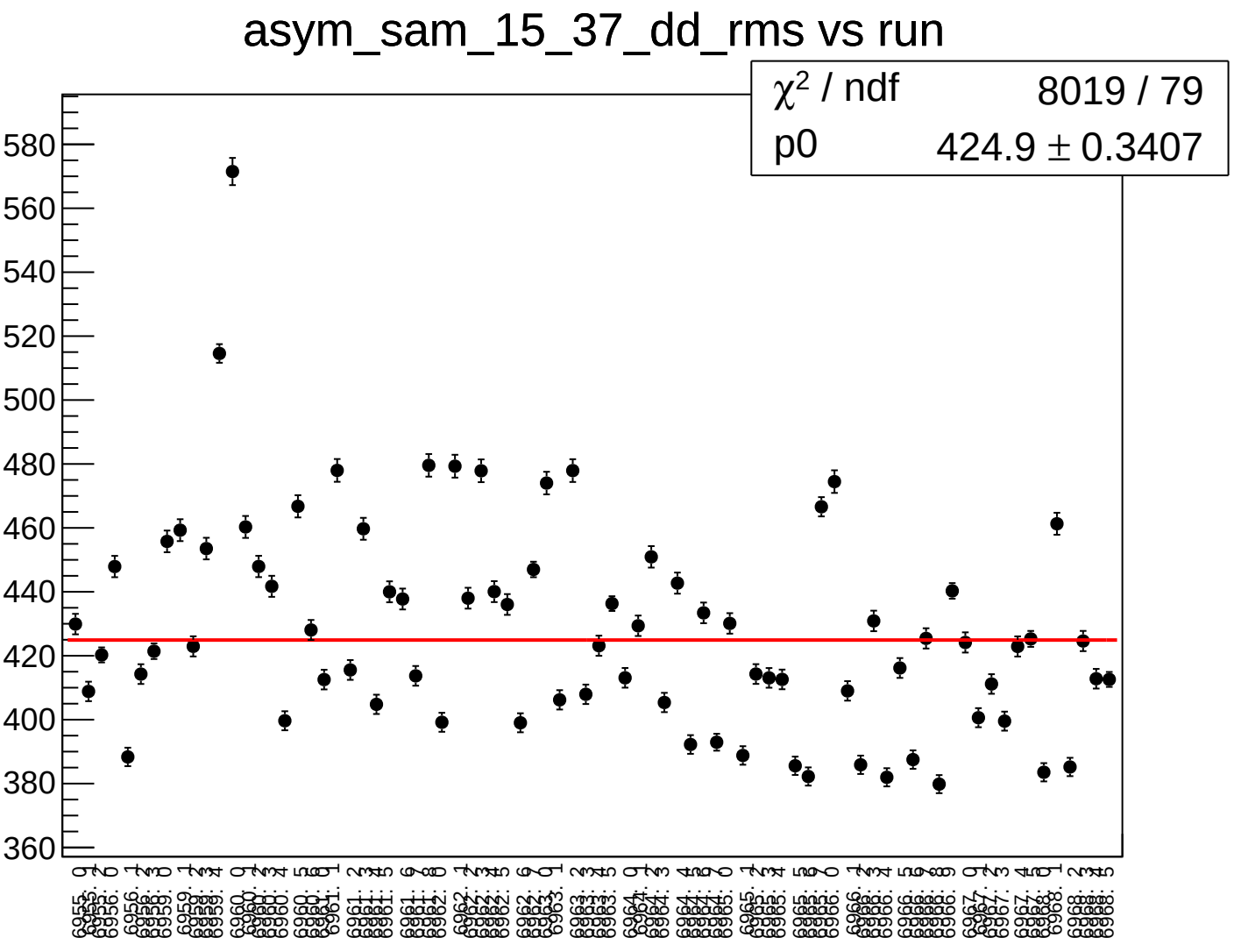

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 95.11 / 79
p0 −18.19 ± 479.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 80
Mean −61.62
Std Dev 98.28
2
1
0
−1
−2

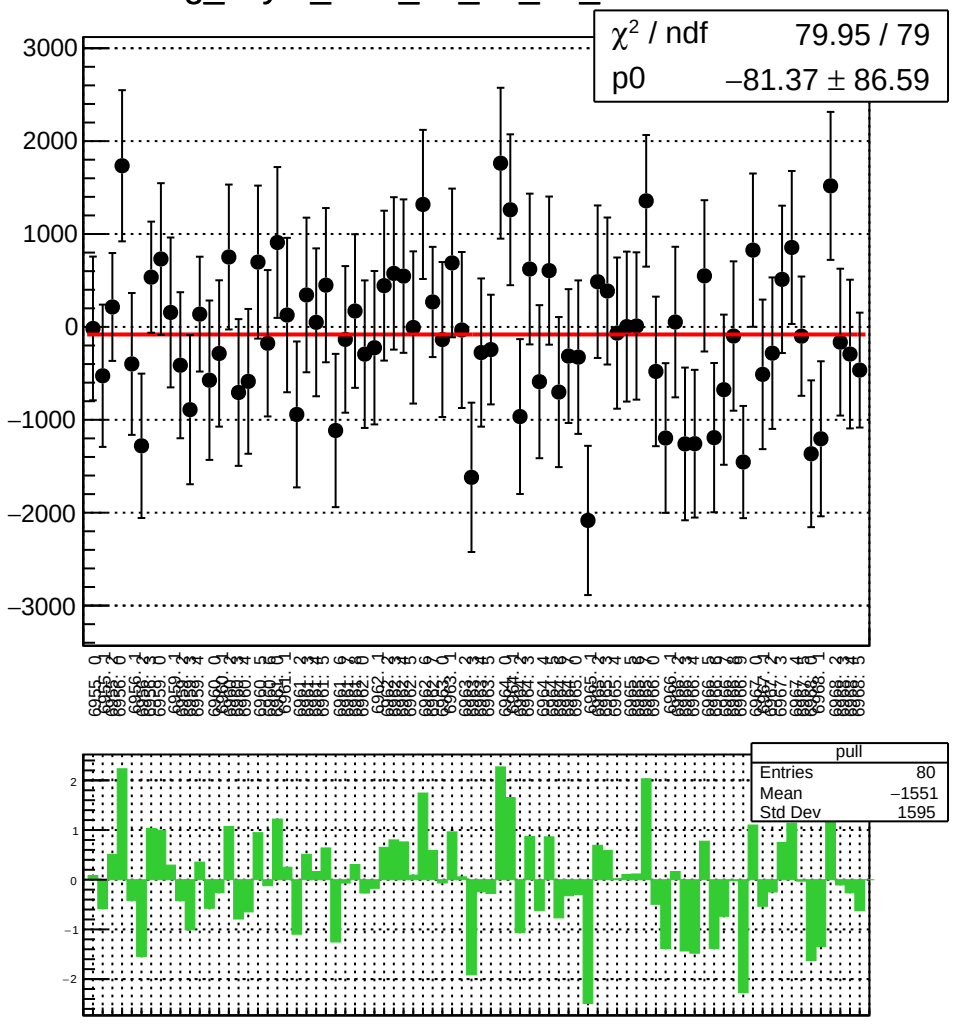

pull1D
Entries 80
Mean −0.02301
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

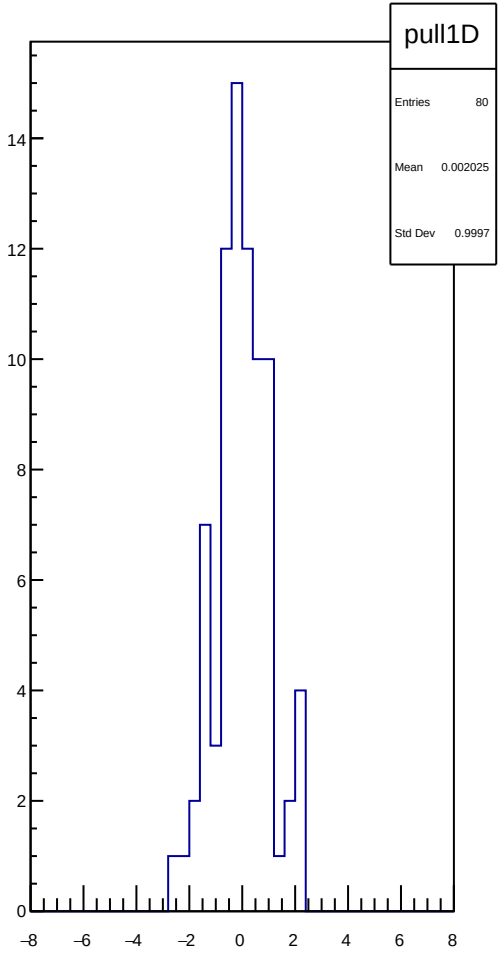

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 8092 / 79
p0 422.9 ± 0.3392
580
560
540
520
500
480
460
440
420
400
380
360

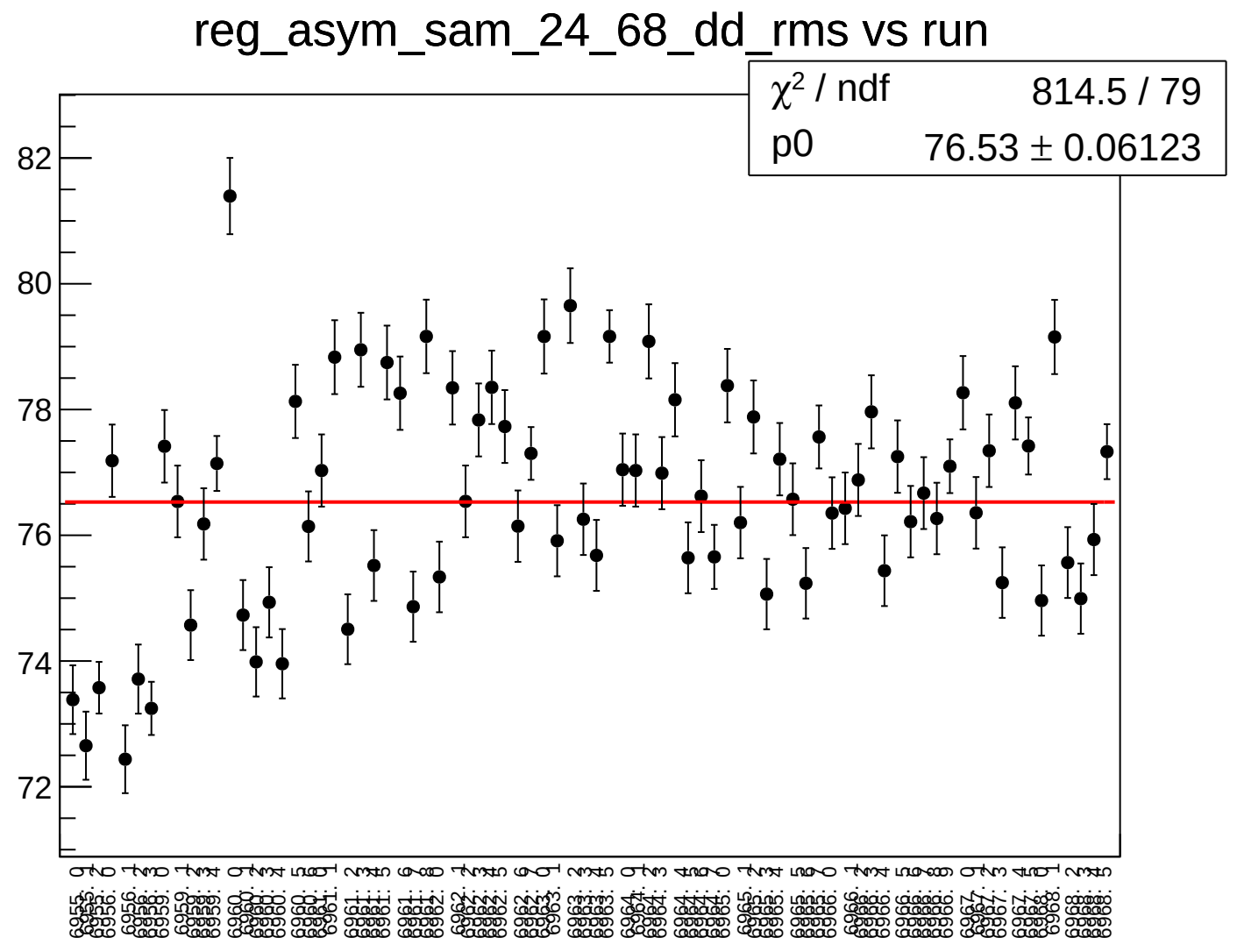

asym_sam_15_37_dd_mean vs run
χ² / ndf 96.74 / 79
p0 −26.54 ± 481.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 80
Mean −47.94
Std Dev 83.24
3
2
1
0
−1
−2

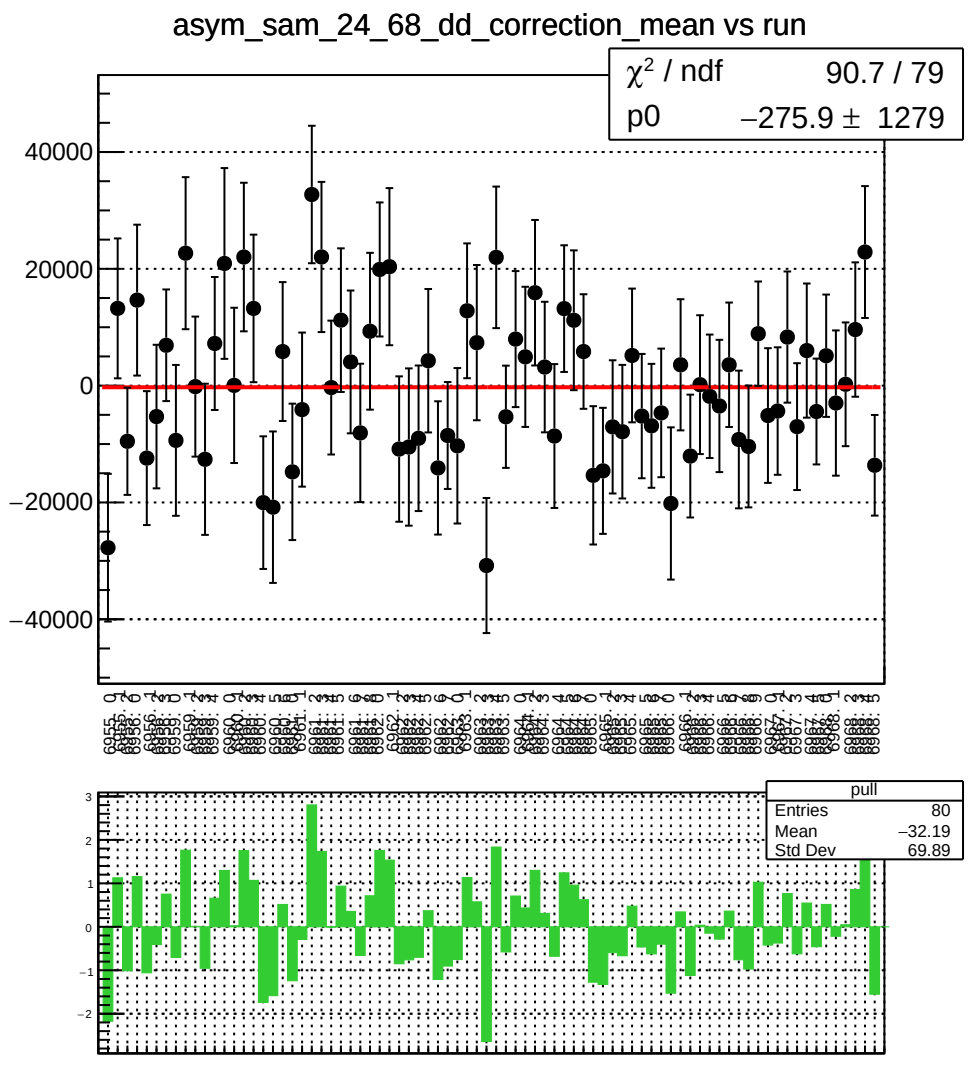

pull1D
Entries 80
Mean 0.0234
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

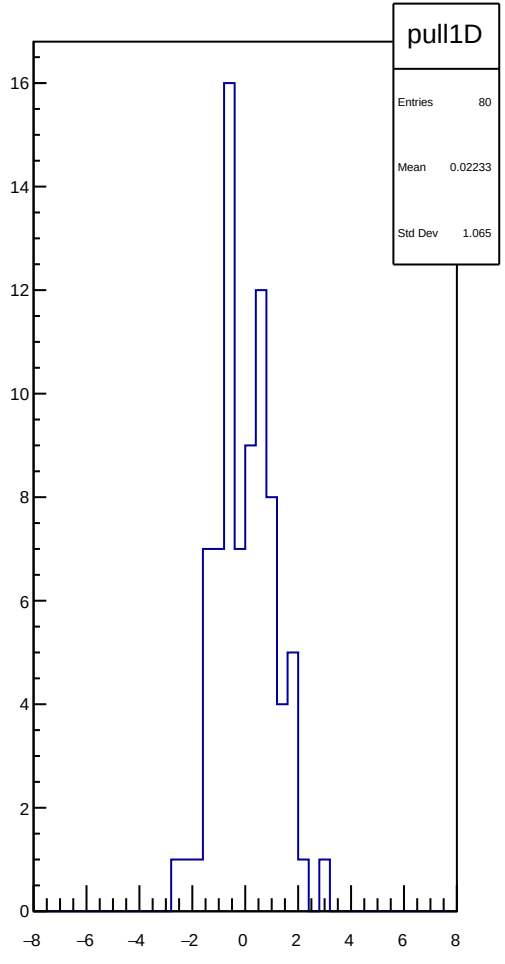

asym_sam_15_37_dd_rms vs run
χ² / ndf 8019 / 79
p0 424.9 ± 0.3407
580
560
540
520
500
480
460
440
420
400
380
360

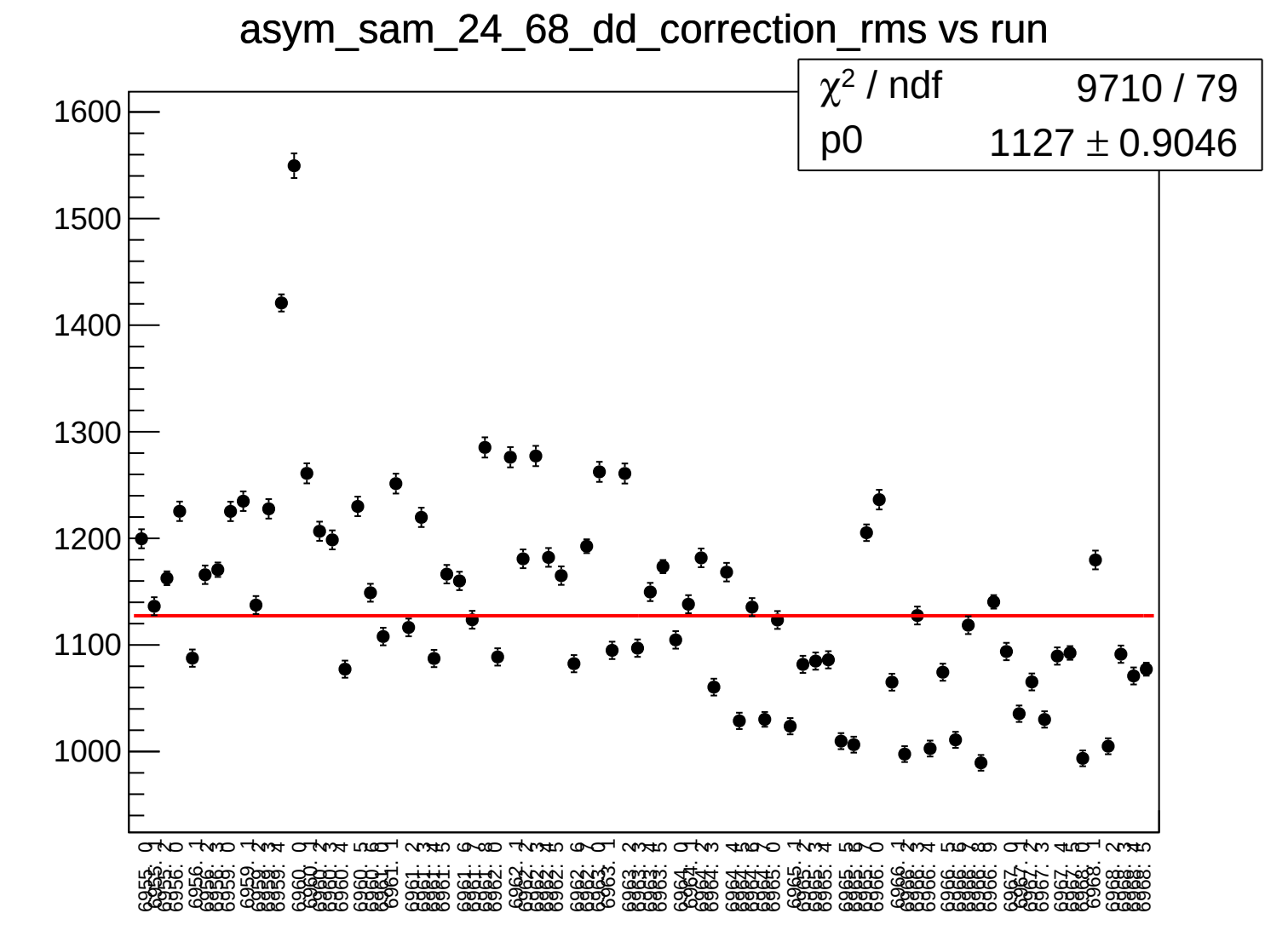

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 79.95 / 79
p0 −81.37 ± 86.59
pull
Entries 80
Mean −1551
Std Dev 1595

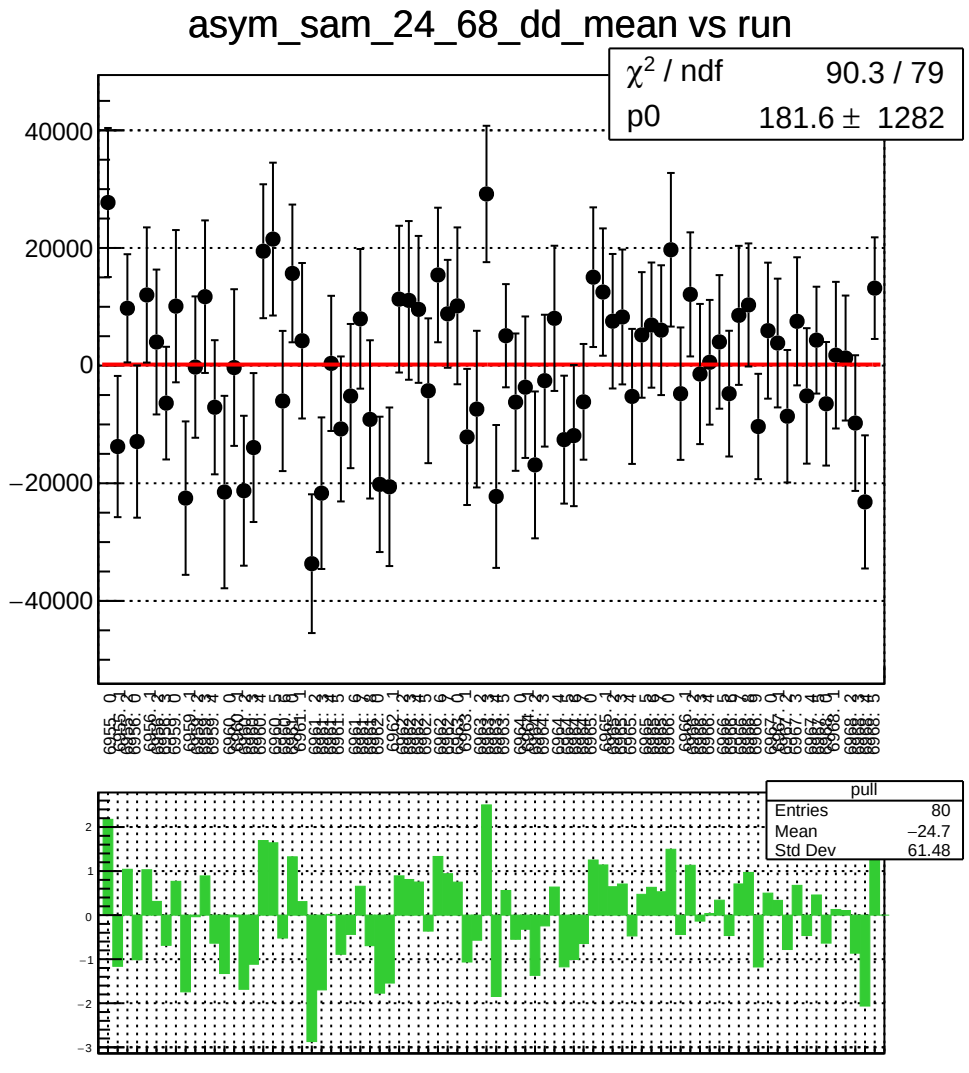

pull1D
Entries 80
Mean 0.002025
Std Dev 0.9997

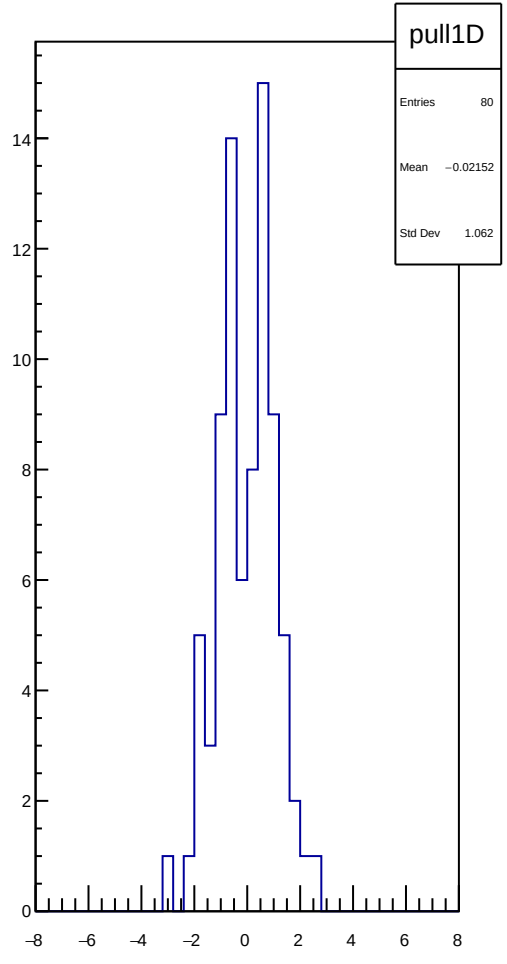

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 814.5 / 79
p0 76.53 ± 0.06123
82
80
78
76
74
72

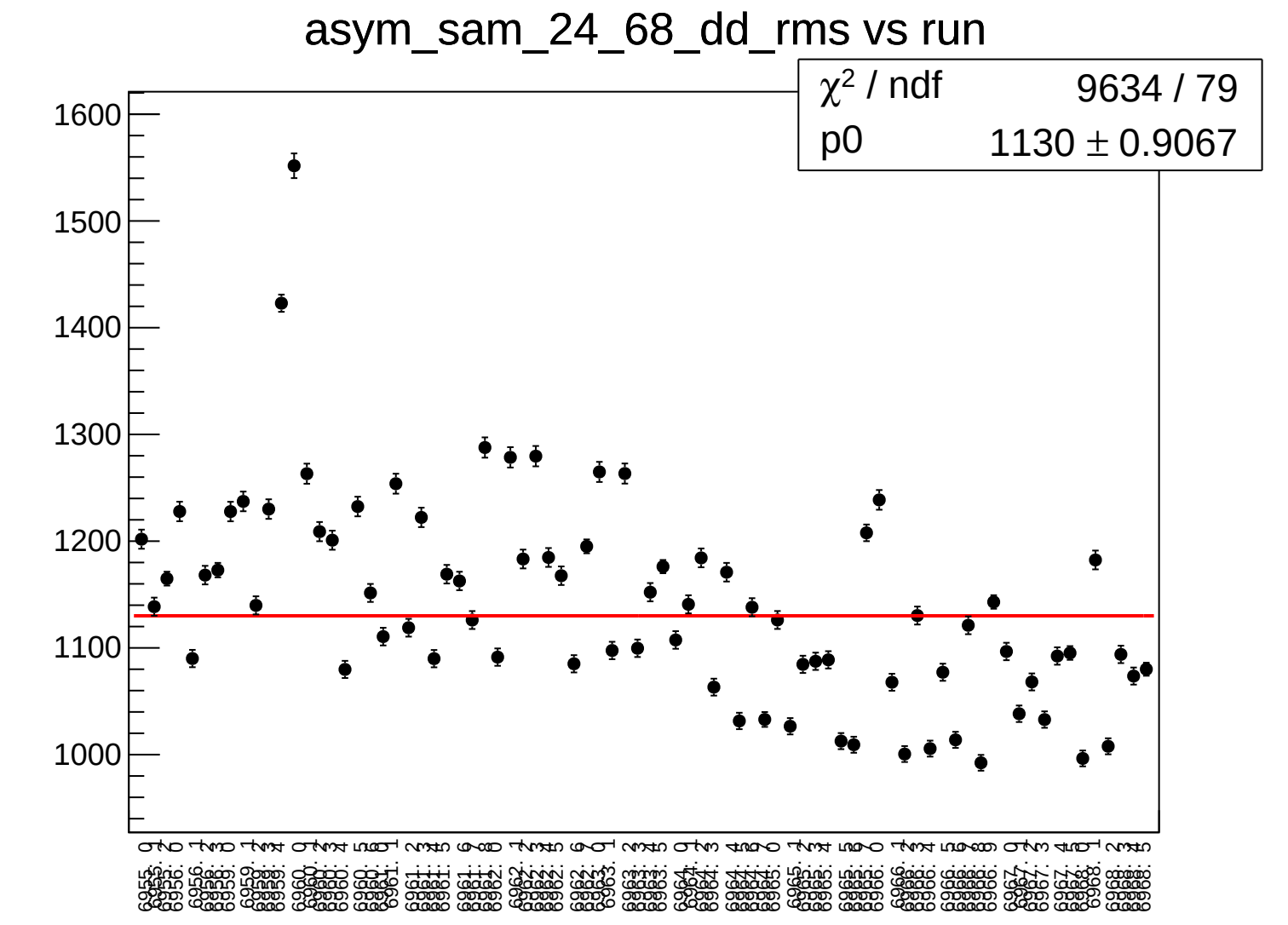

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 90.7 / 79
p0 −275.9 ± 1279
40000
20000
0
−20000
−40000
pull
Entries 80
Mean −32.19
Std Dev 69.89
3
2
1
0
−1
−2

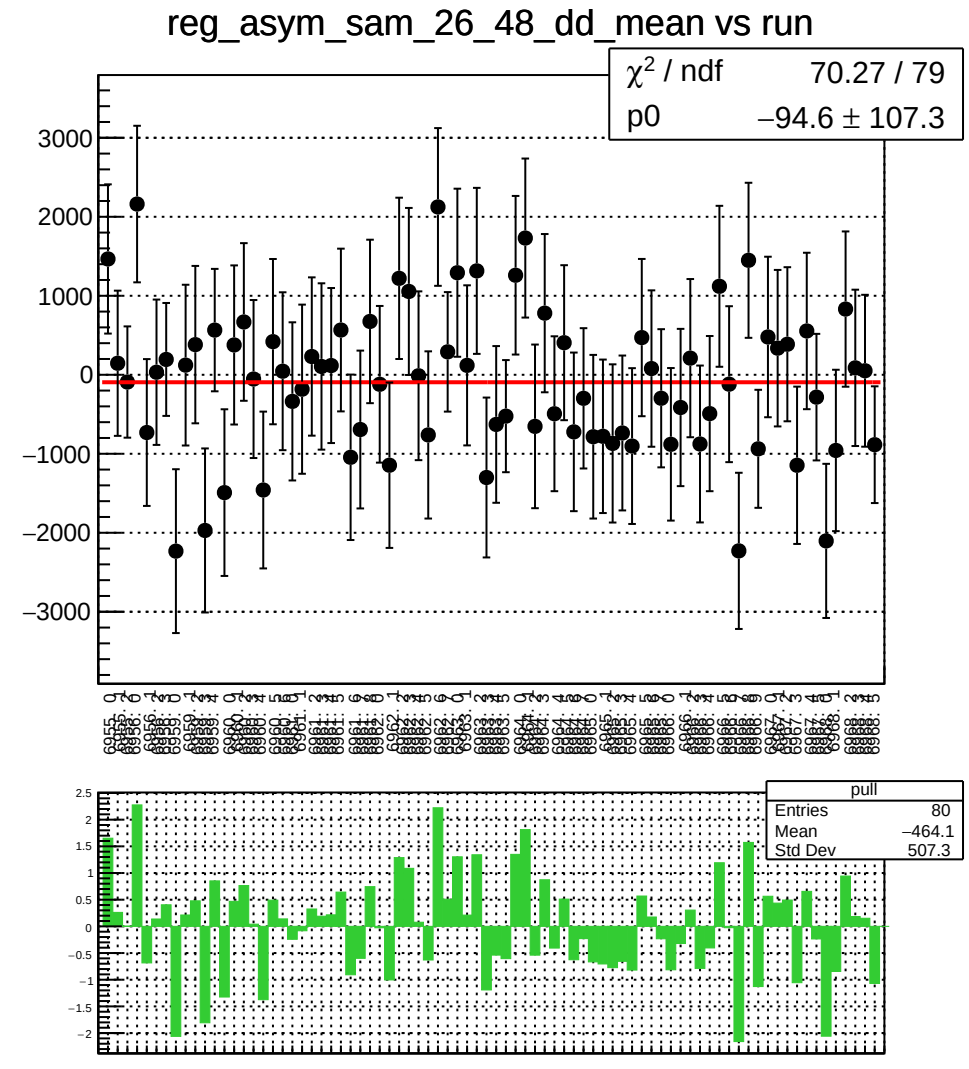

pull1D
Entries 80
Mean 0.02233
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

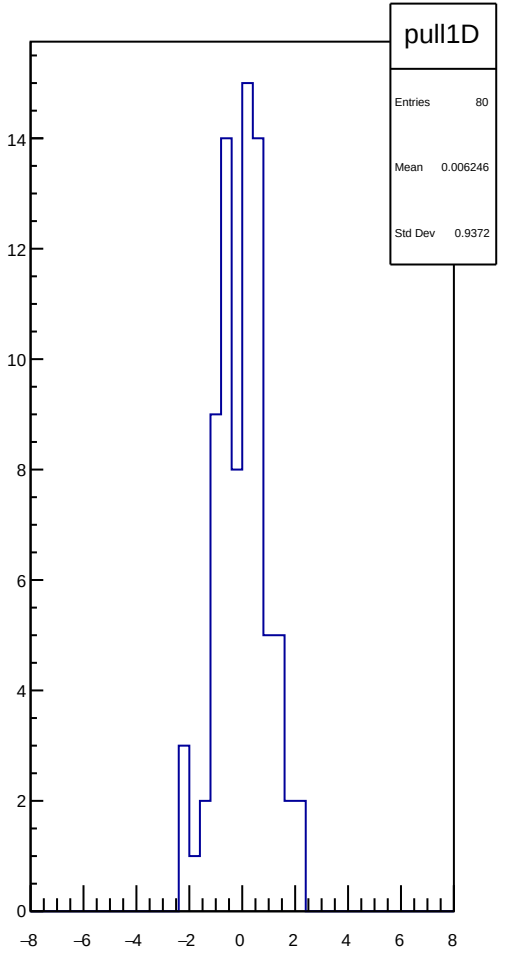

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 9710 / 79
p0 1127 ± 0.9046
1600
1500
1400
1300
1200
1100
1000

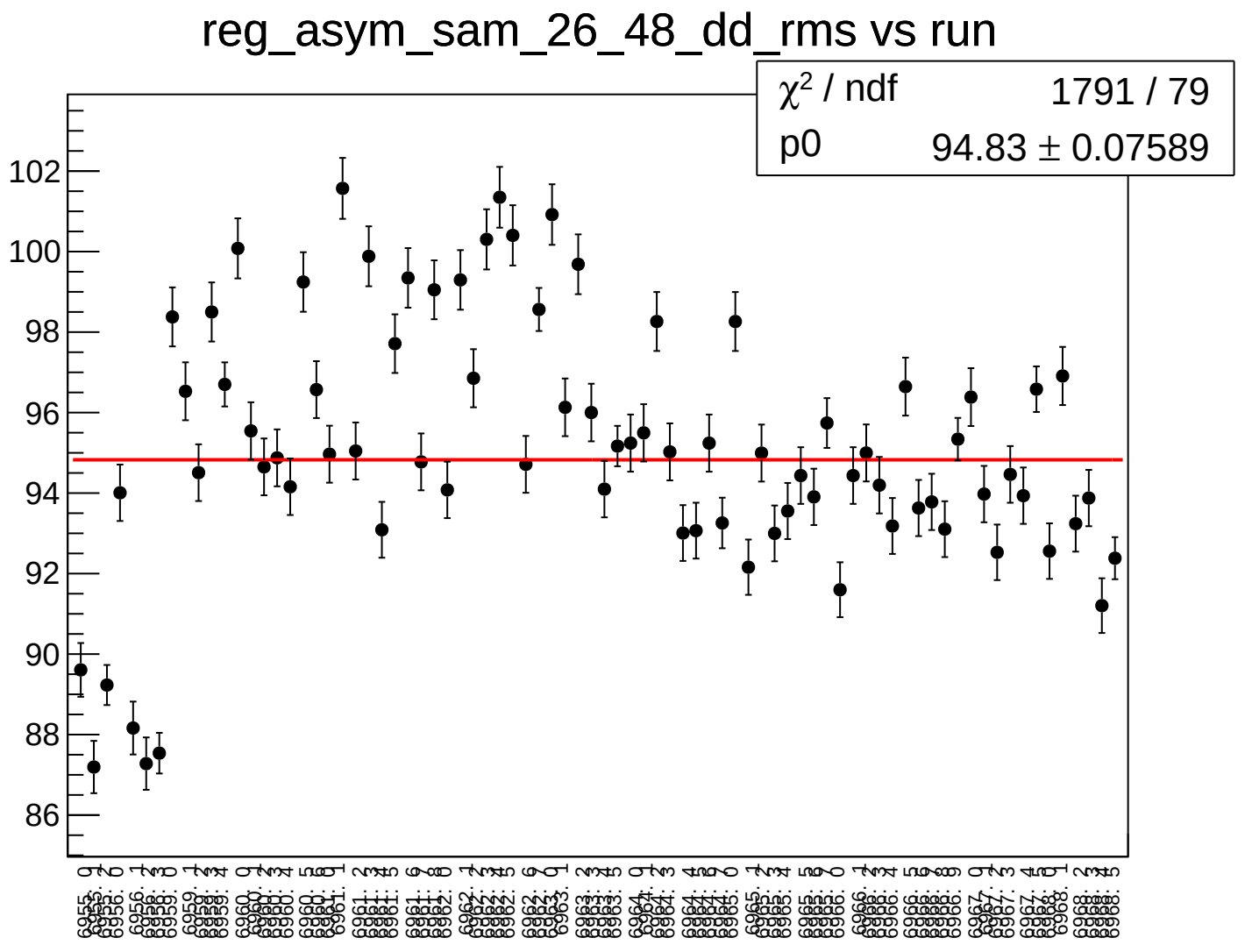

asym_sam_24_68_dd_mean vs run
χ² / ndf 90.3 / 79
p0 181.6 ± 1282
40000
20000
0
−20000
−40000
pull
Entries 80
Mean −24.7
Std Dev 61.48
2
1
0
−1
−2
−3

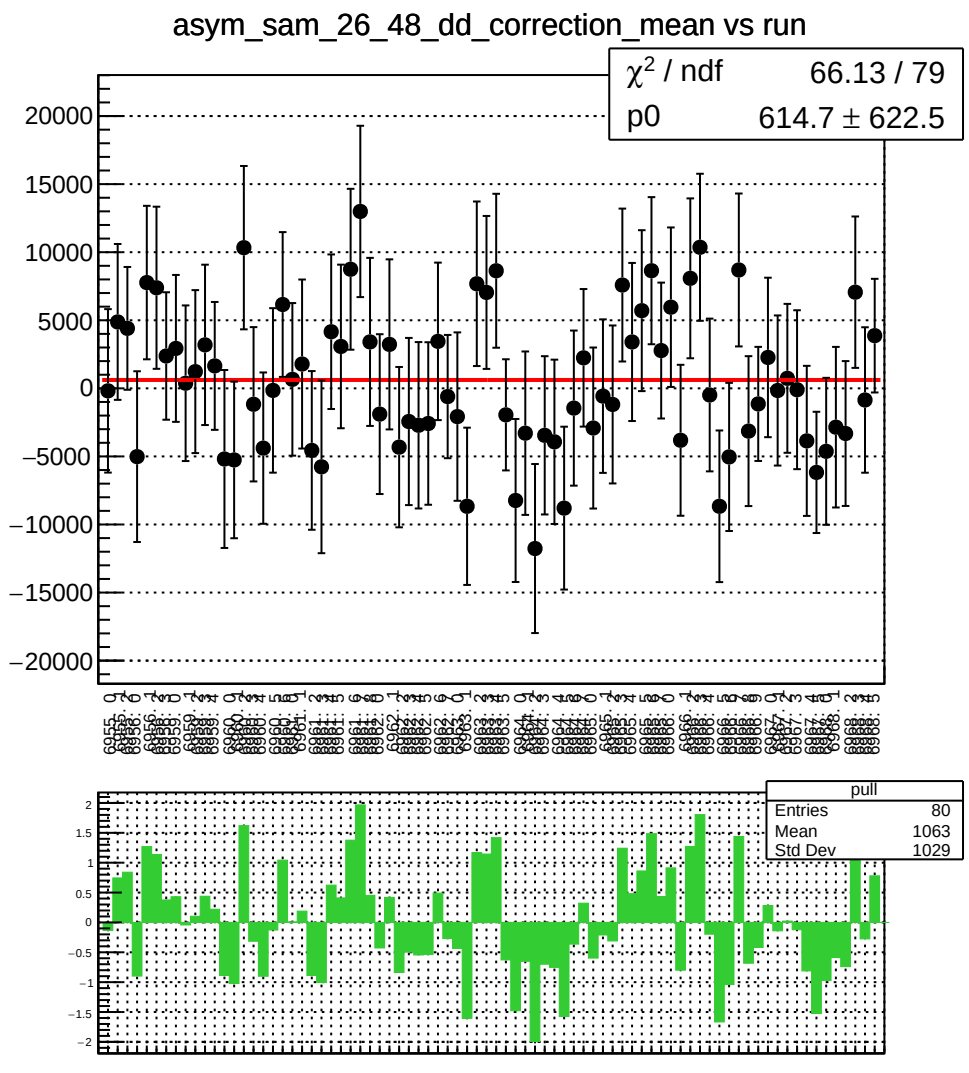

pull1D
Entries 80
Mean −0.02152
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

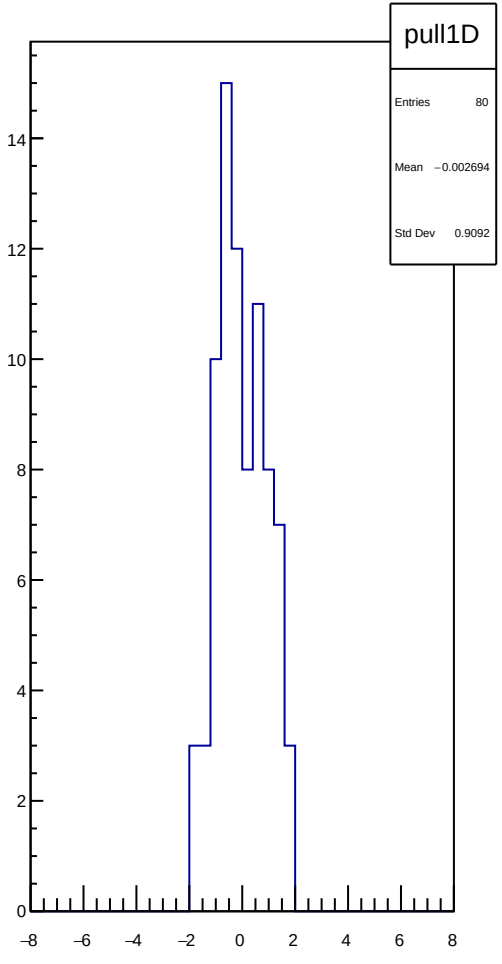

asym_sam_24_68_dd_rms vs run
χ² / ndf 9634 / 79
p0 1130 ± 0.9067
1600
1500
1400
1300
1200
1100
1000

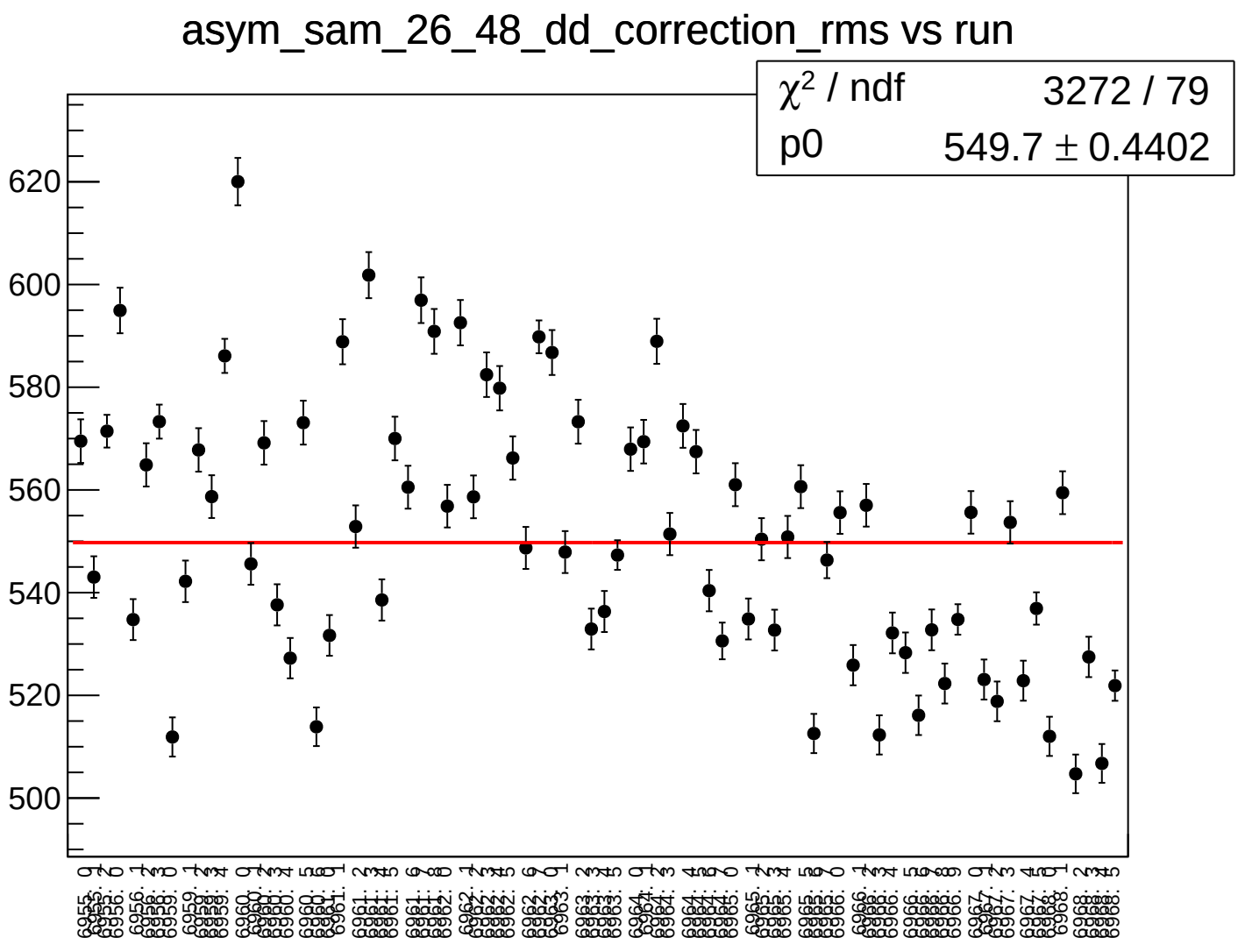

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 70.27 / 79
p0 −94.6 ± 107.3
pull
Entries 80
Mean −464.1
Std Dev 507.3

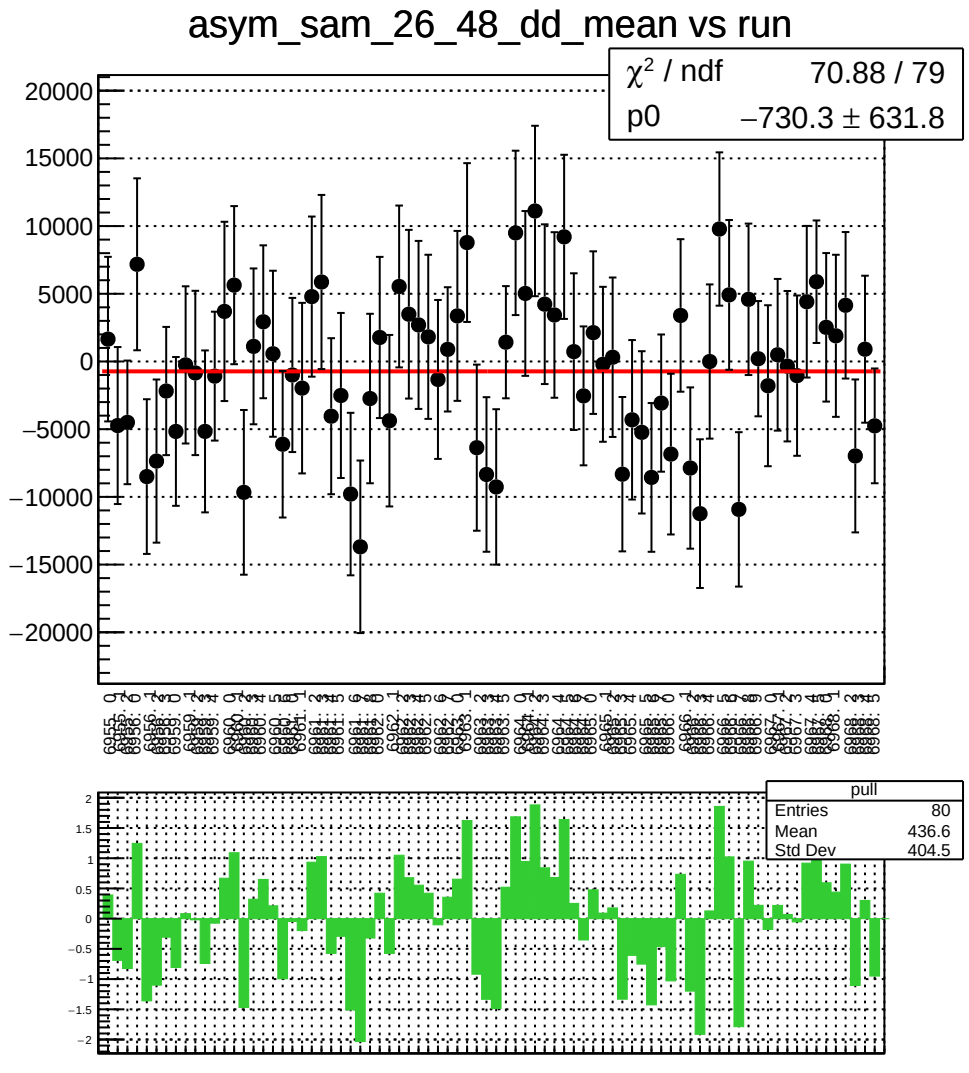

pull1D
Entries 80
Mean 0.006246
Std Dev 0.9372

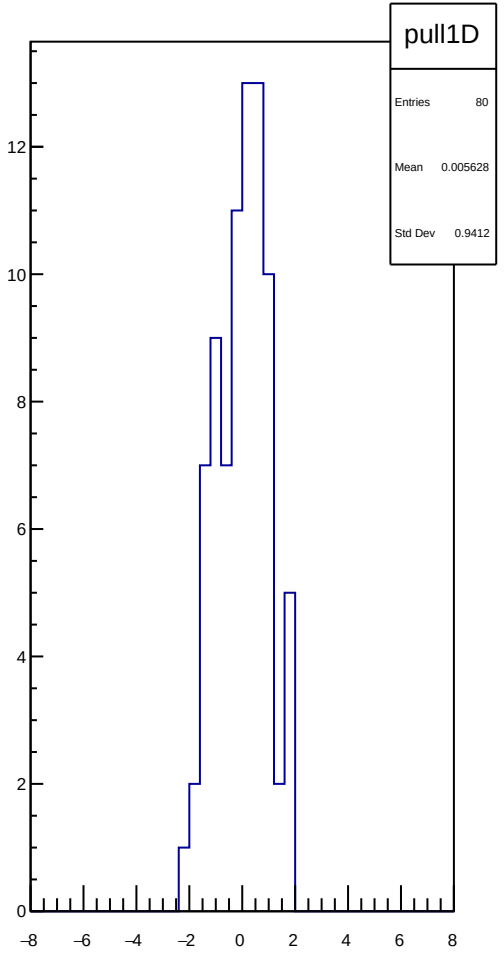

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1791 / 79
p0 94.83 ± 0.07589
102
100
98
96
94
92
90
88
86

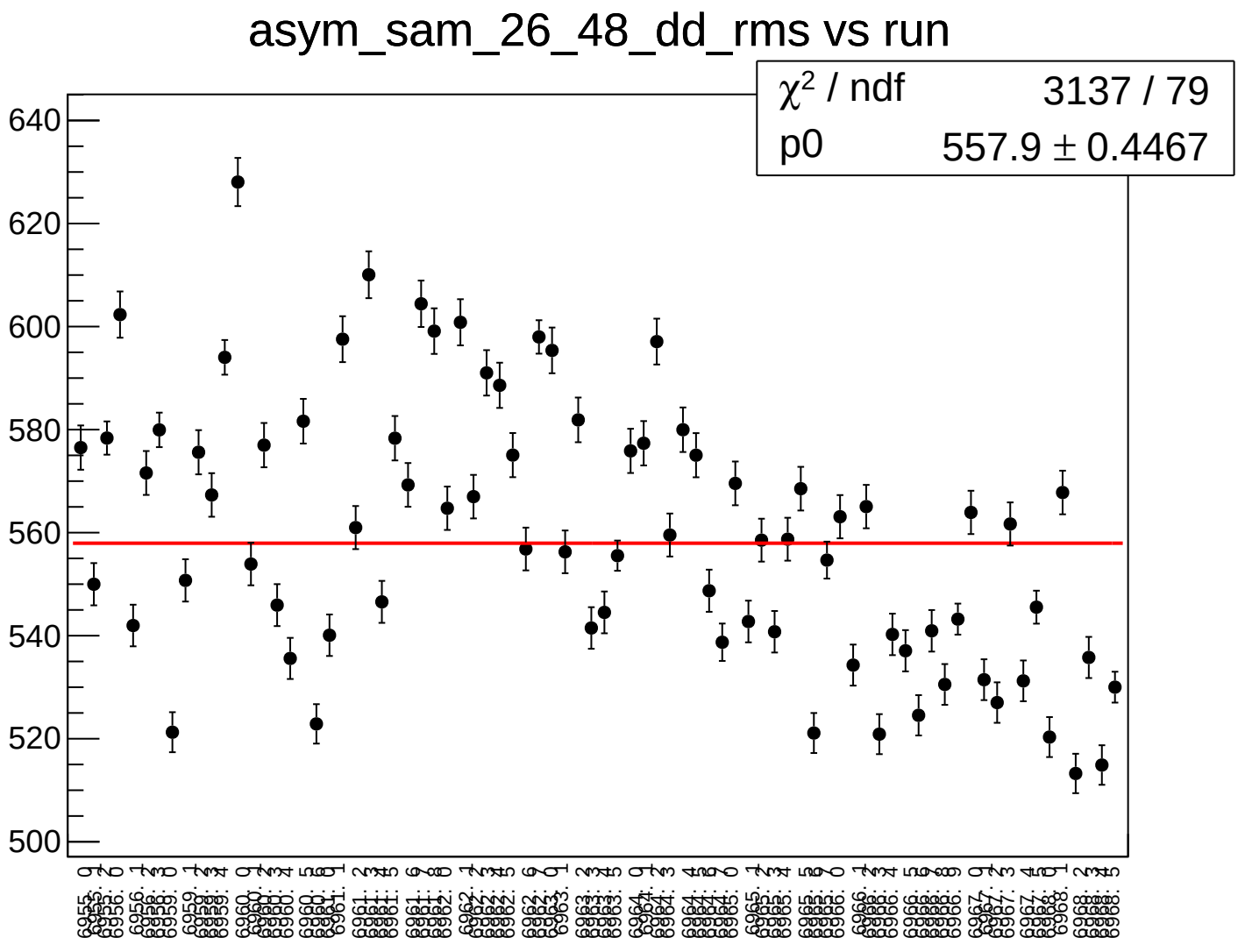

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 66.13 / 79
p0 614.7 ± 622.5
pull
Entries 80
Mean 1063
Std Dev 1029

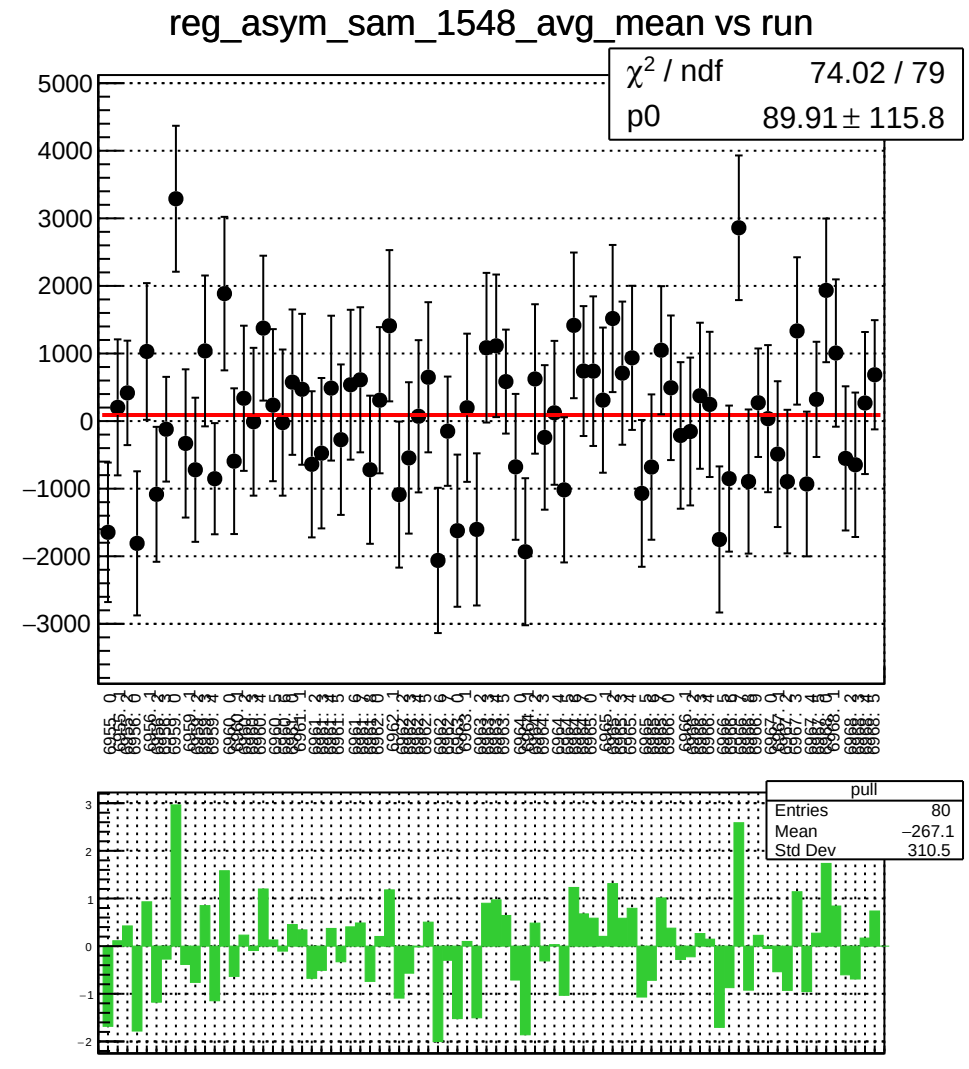

pull1D
Entries 80
Mean −0.002694
Std Dev 0.9092

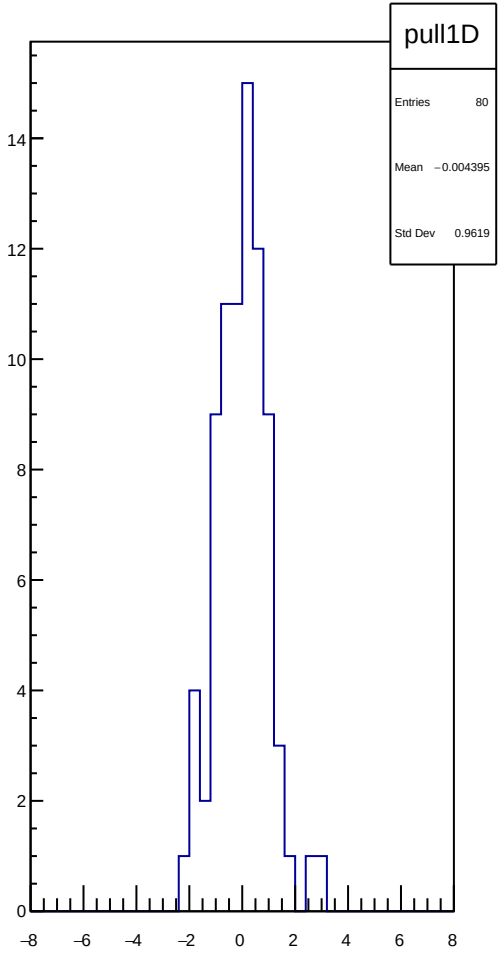

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 3272 / 79
p0 549.7 ± 0.4402
620
600
580
560
540
520
500

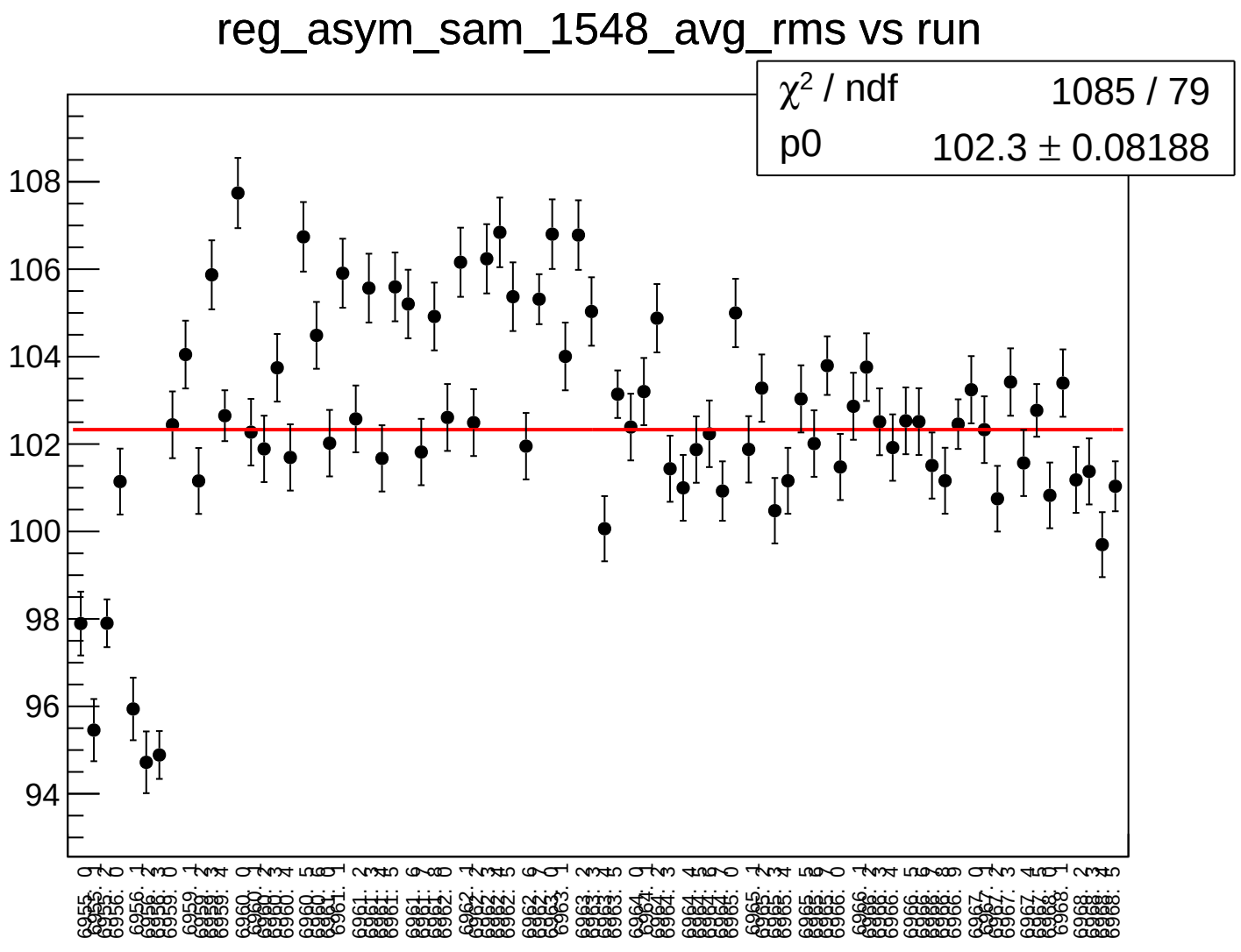

asym_sam_26_48_dd_mean vs run
χ² / ndf 70.88 / 79
p0 −730.3 ± 631.8
pull
Entries 80
Mean 436.6
Std Dev 404.5

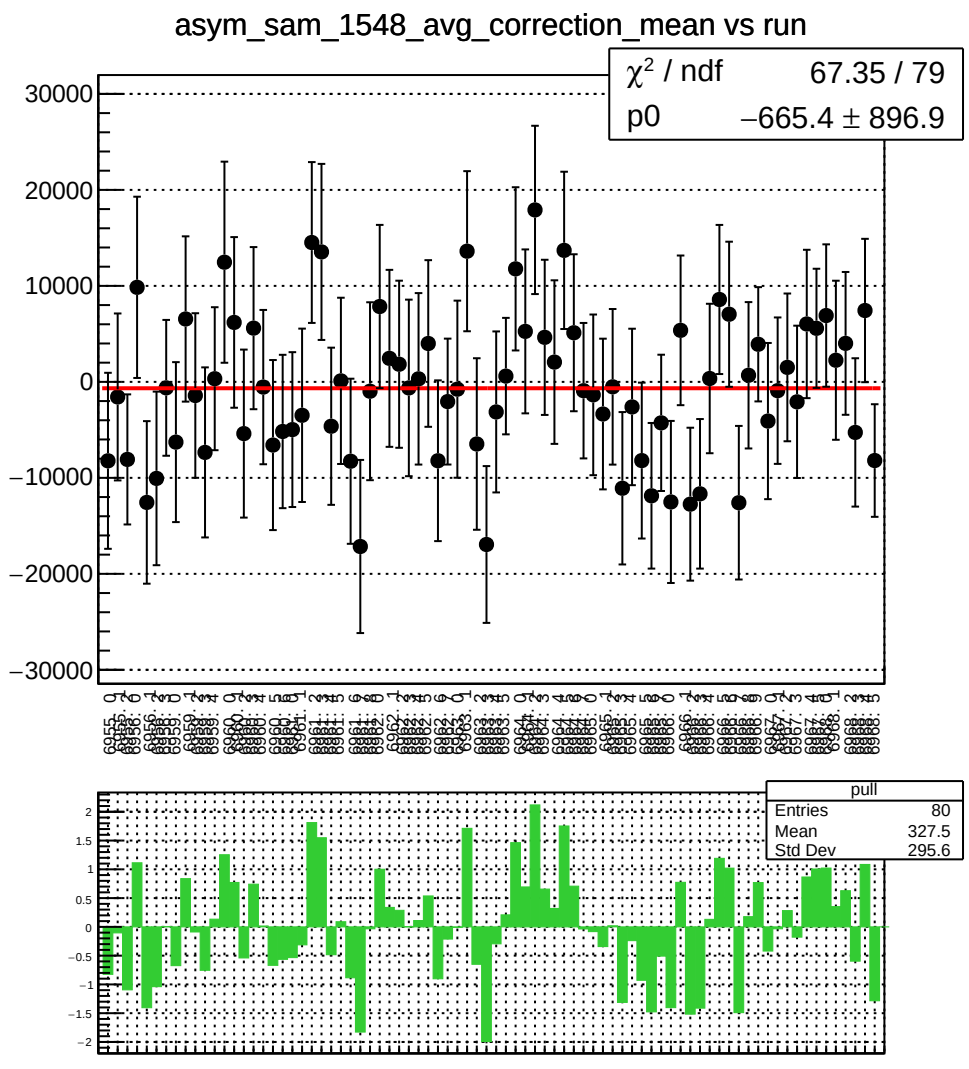

pull1D
Entries 80
Mean 0.005628
Std Dev 0.9412

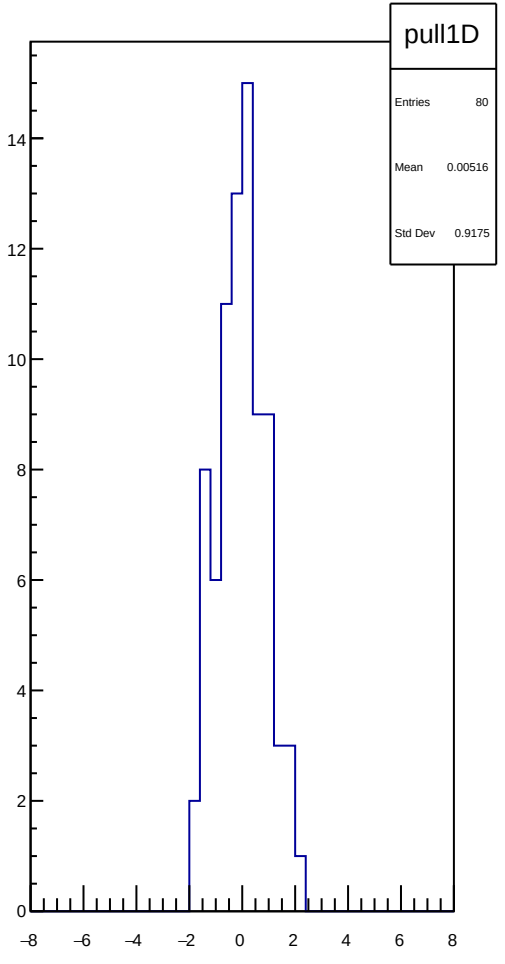

asym_sam_26_48_dd_rms vs run
χ² / ndf 3137 / 79
p0 557.9 ± 0.4467
640
620
600
580
560
540
520
500

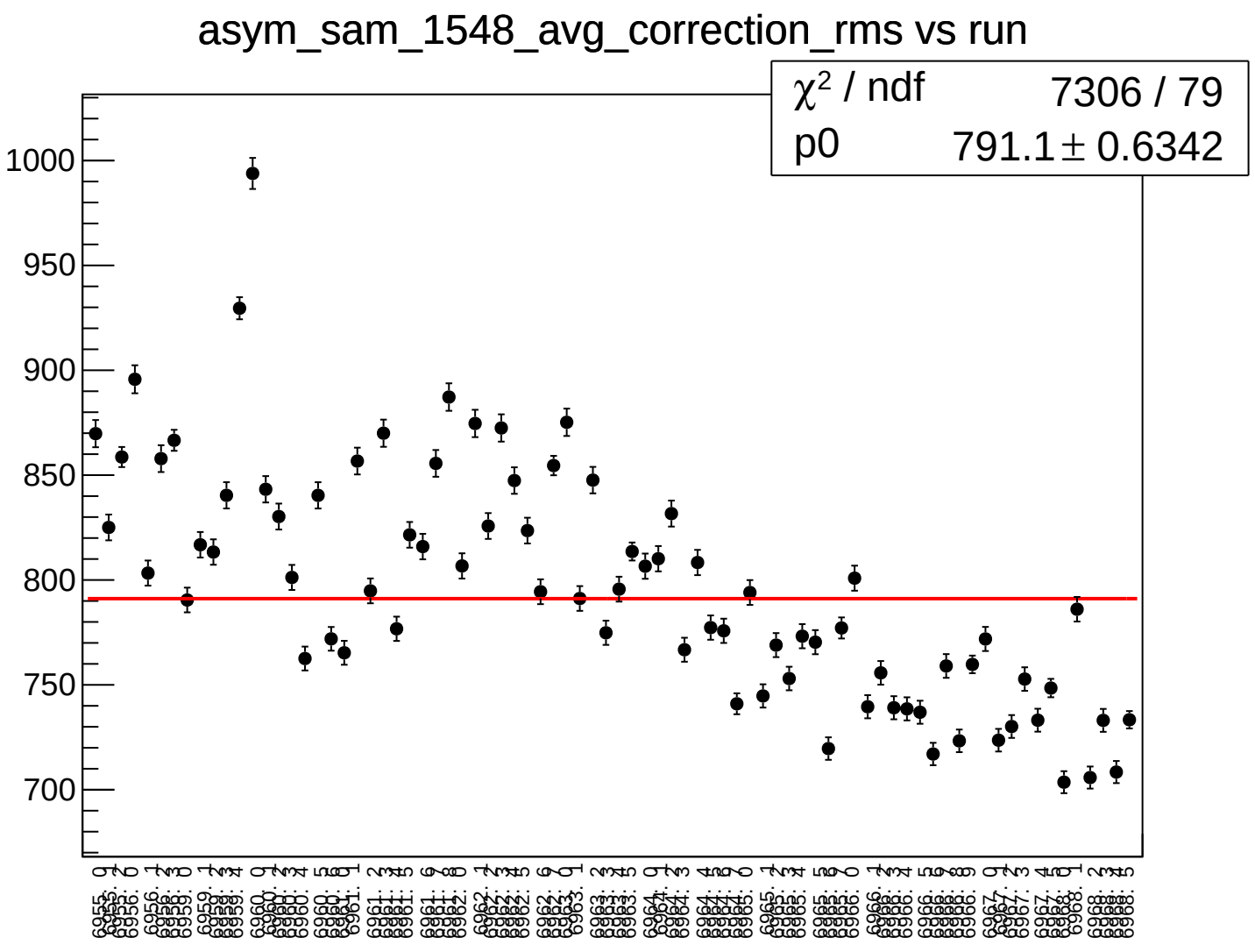

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 74.02 / 79
p0 89.91 ± 115.8
pull
Entries 80
Mean −267.1
Std Dev 310.5

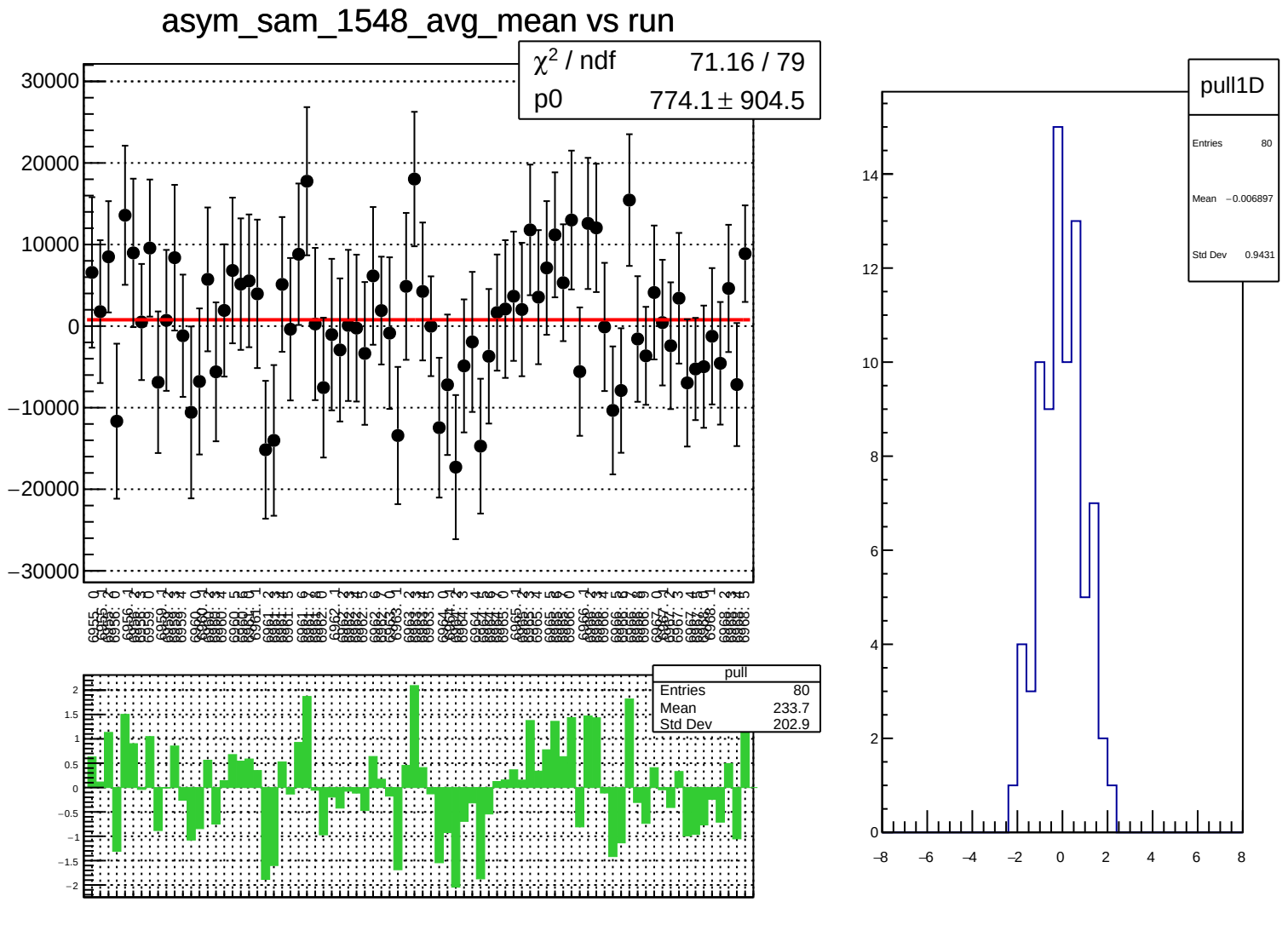

pull1D
Entries 80
Mean −0.004395
Std Dev 0.9619

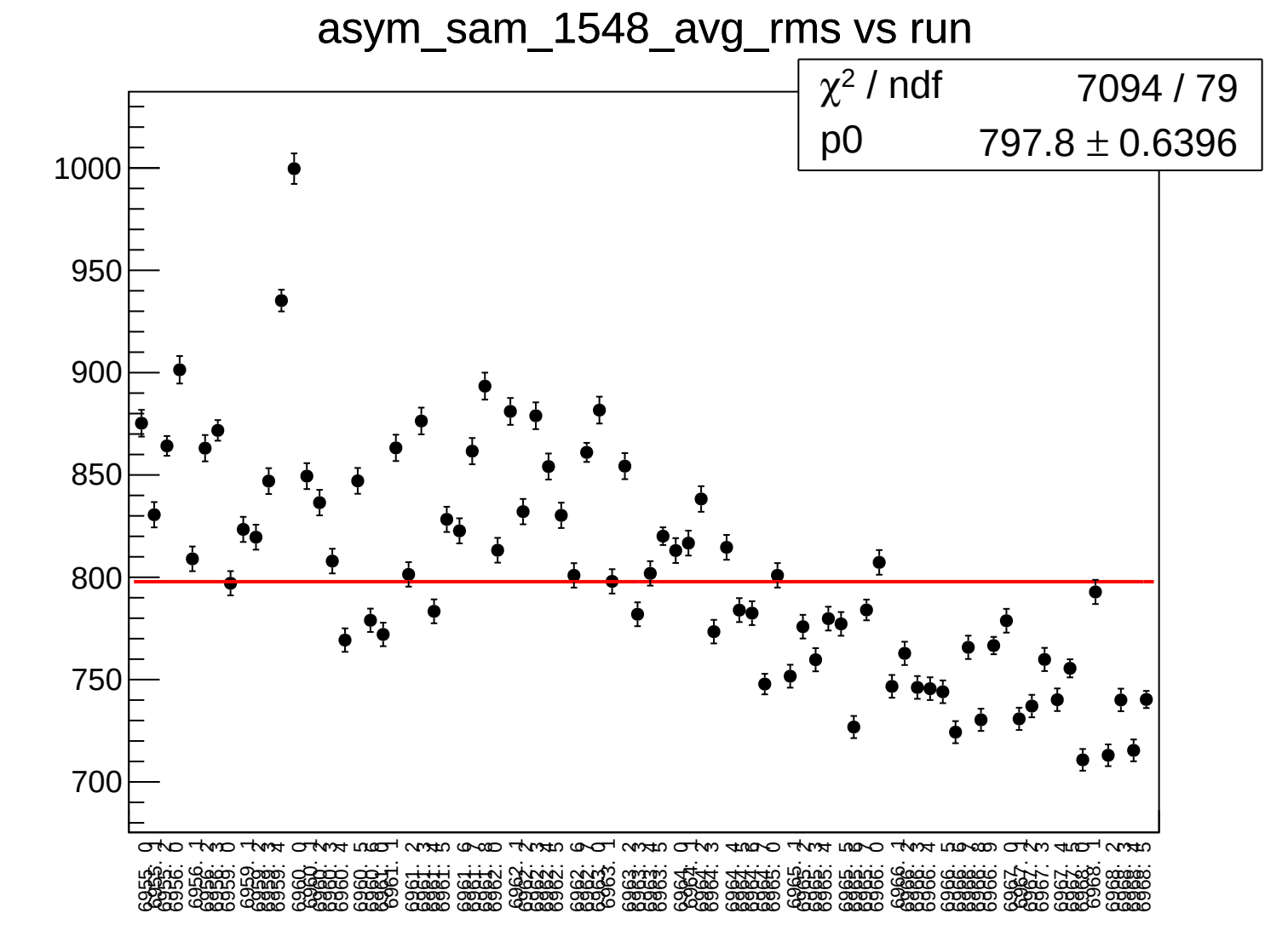

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 1085 / 79
p0 102.3 ± 0.08188
108
106
104
102
100
98
96
94

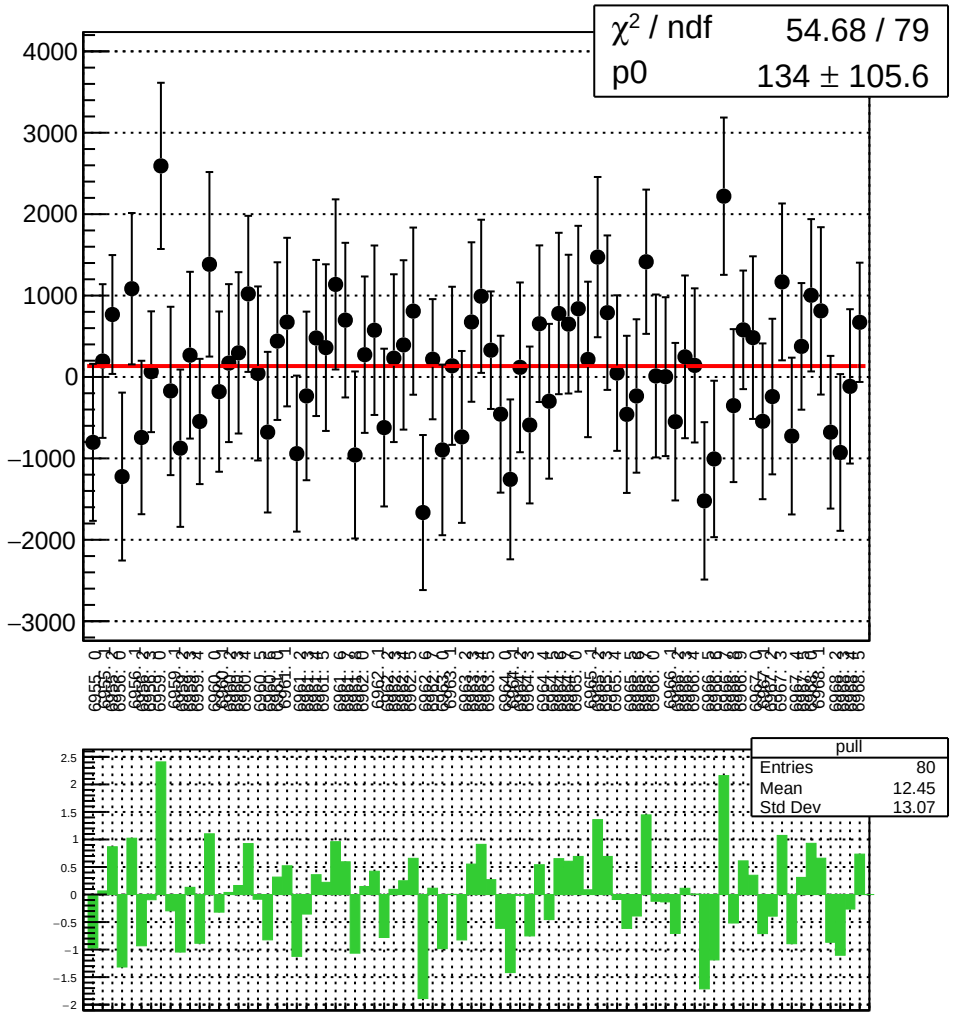

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 67.35 / 79
p0 −665.4 ± 896.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 80
Mean 327.5
Std Dev 295.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

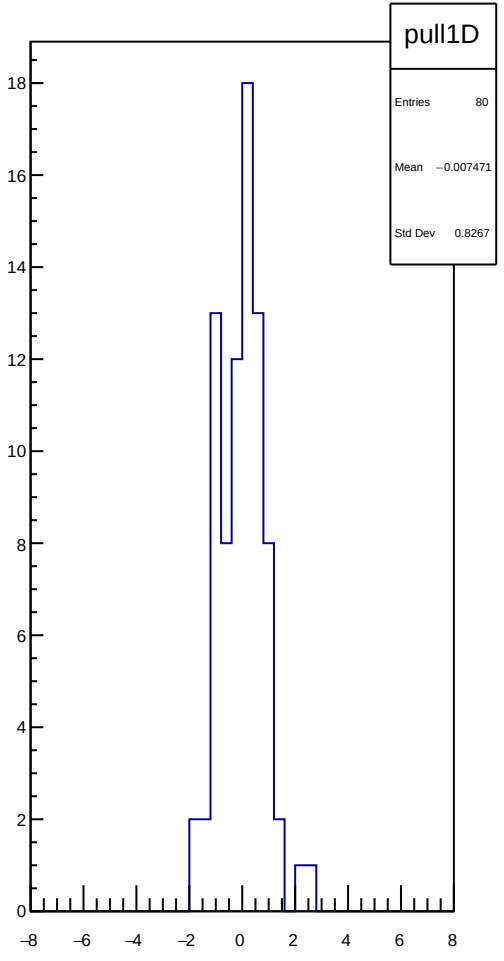

pull1D
Entries 80
Mean 0.00516
Std Dev 0.9175
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

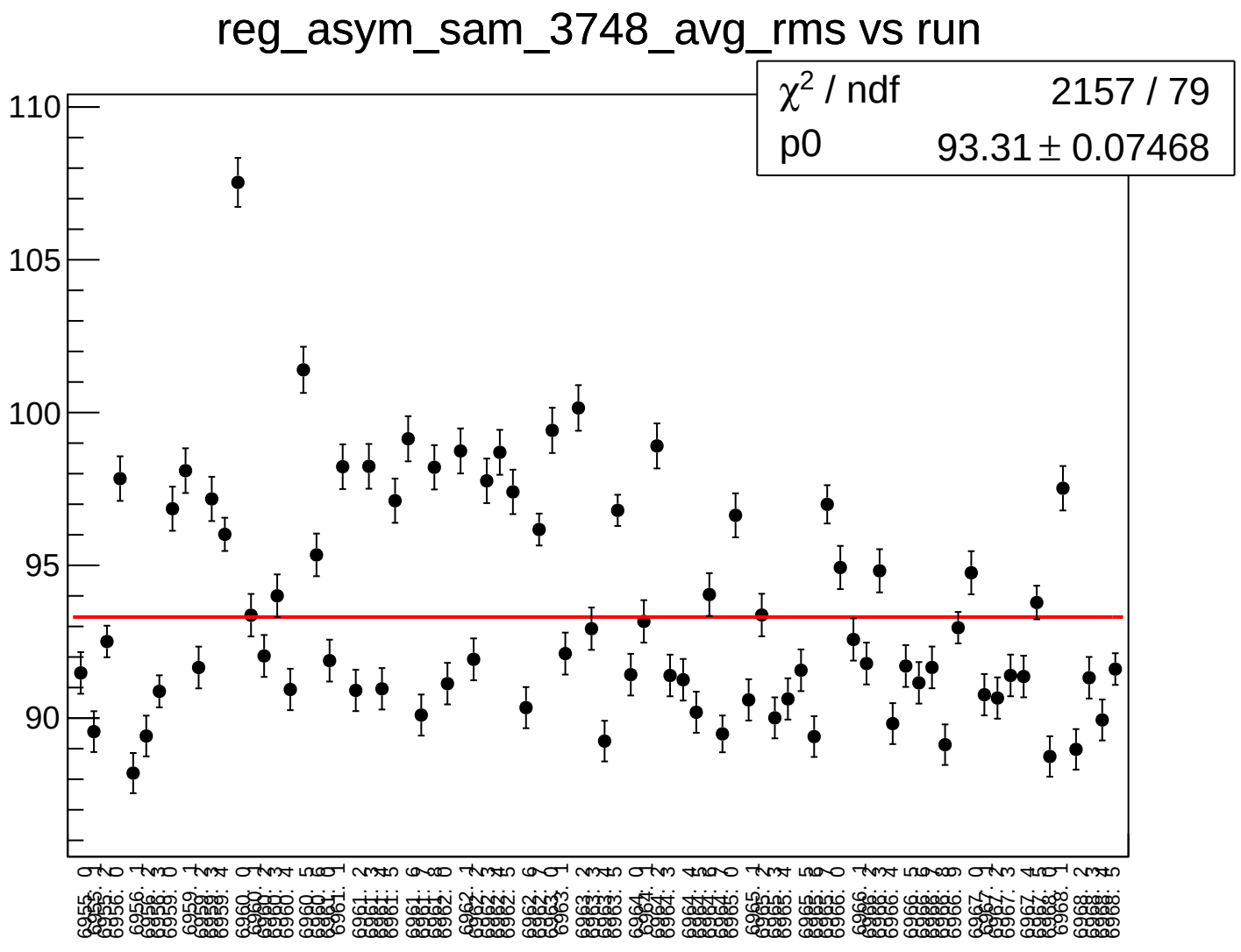

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 7306 / 79
p0 791.1 ± 0.6342
1000
950
900
850
800
750
700

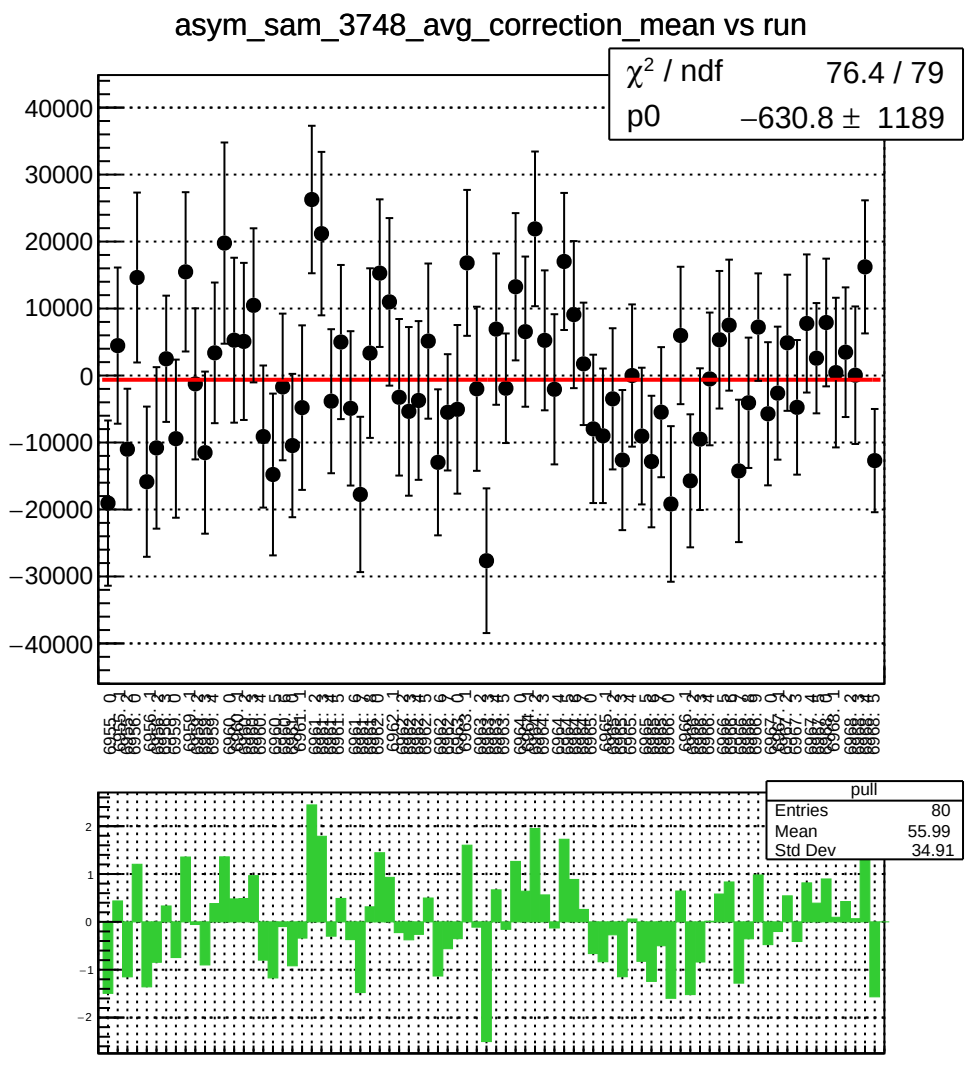

asym_sam_1548_avg_mean vs run
χ² / ndf 71.16 / 79
p0 774.1 ± 904.5
pull
Entries 80
Mean 233.7
Std Dev 202.9
pull1D
Entries 80
Mean −0.006897
Std Dev 0.9431

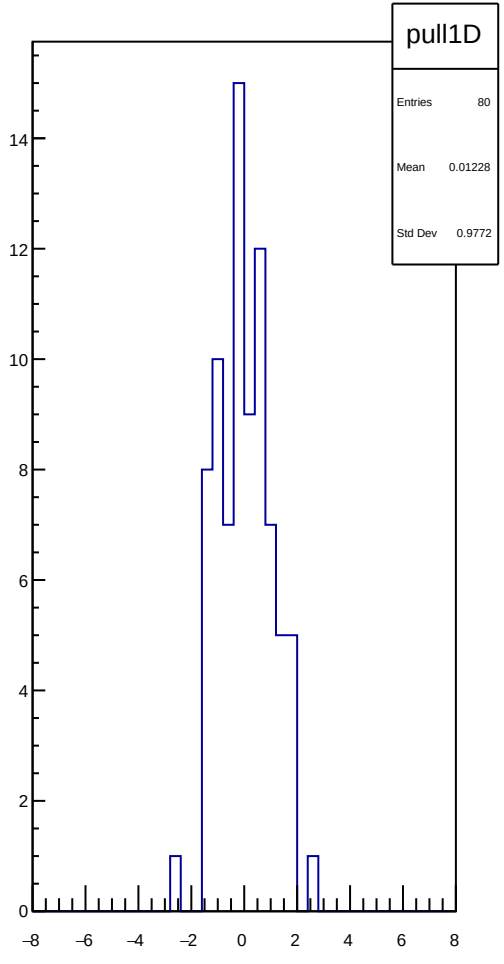

asym_sam_1548_avg_rms vs run
χ² / ndf 7094 / 79
p0 797.8 ± 0.6396
1000
950
900
850
800
750
700

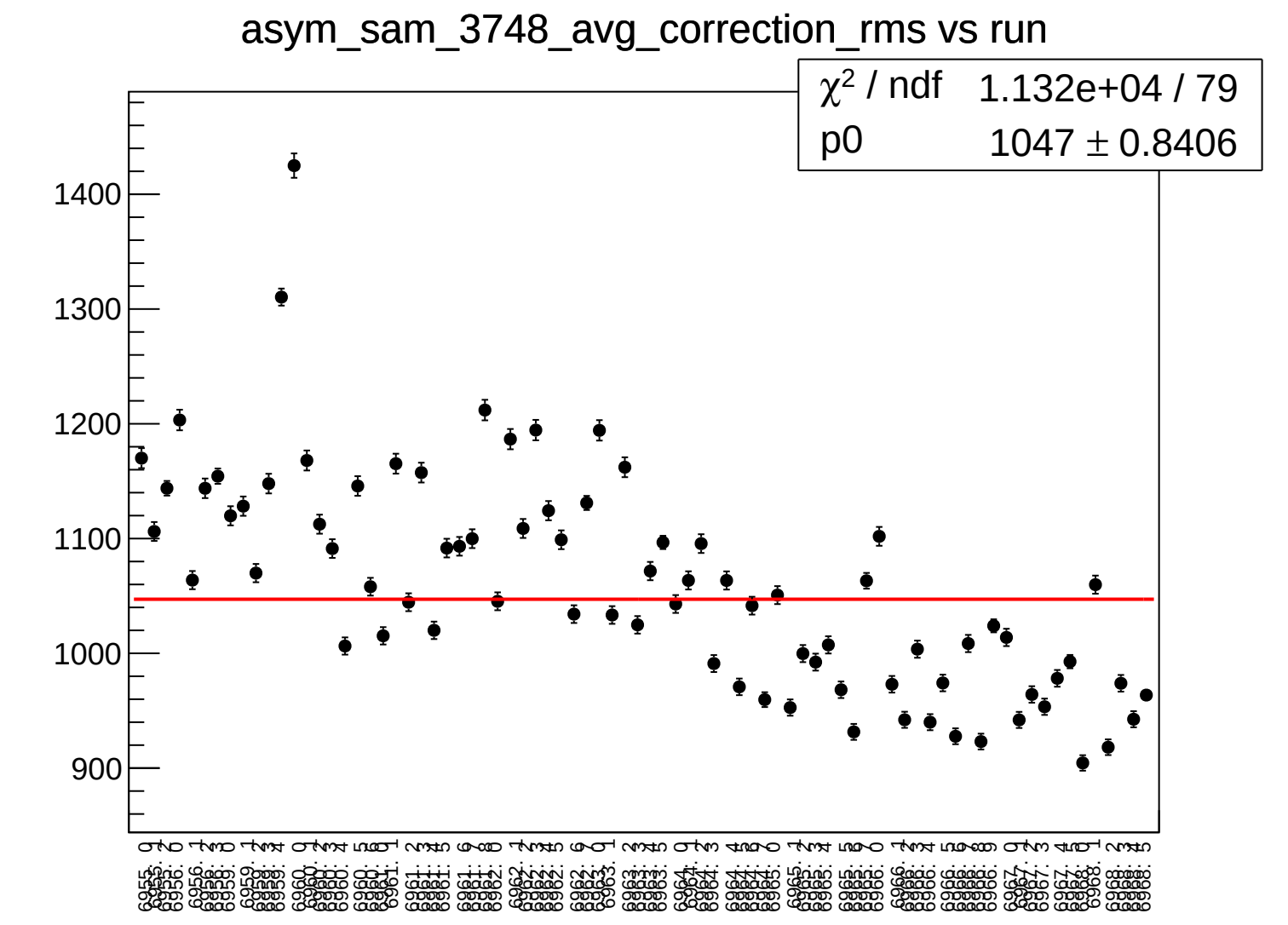

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 54.68 / 79
p0 134 ± 105.6
pull
Entries 80
Mean 12.45
Std Dev 13.07

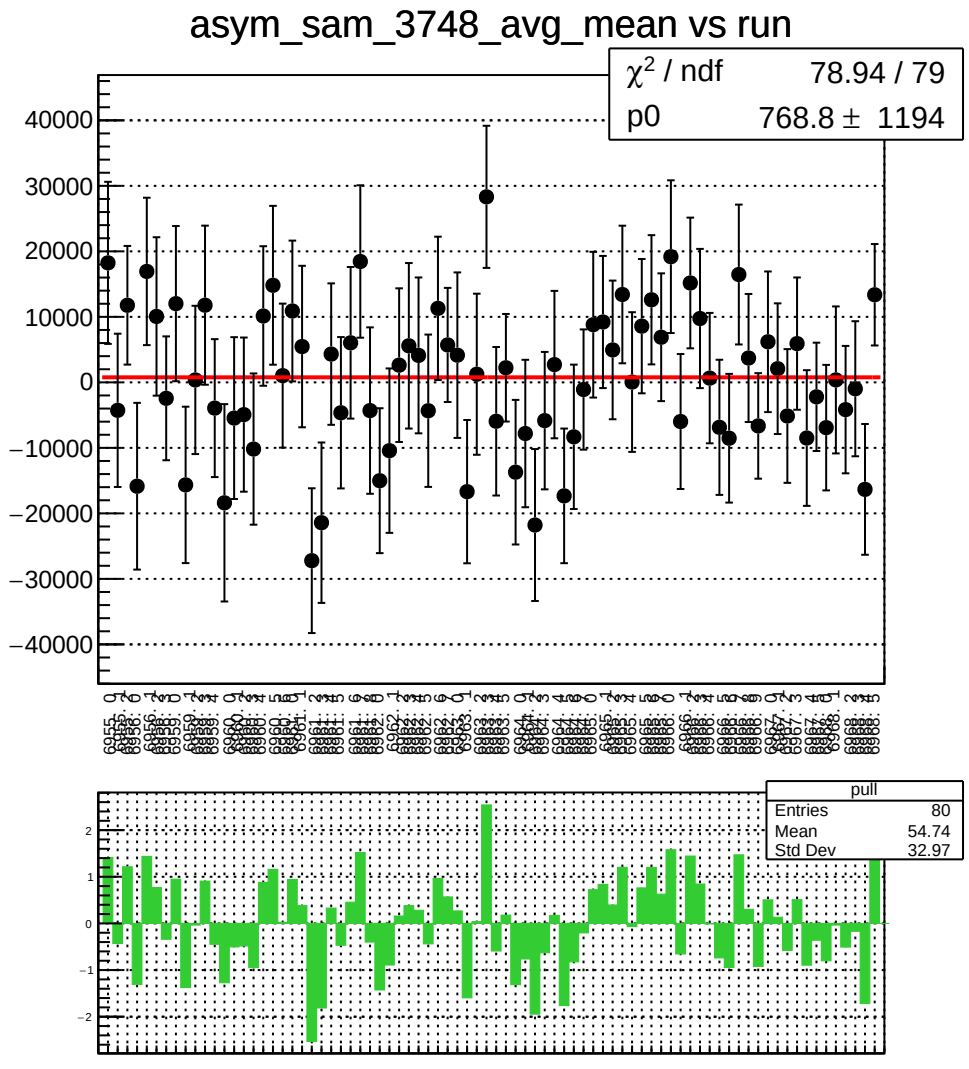

pull1D
Entries 80
Mean −0.007471
Std Dev 0.8267

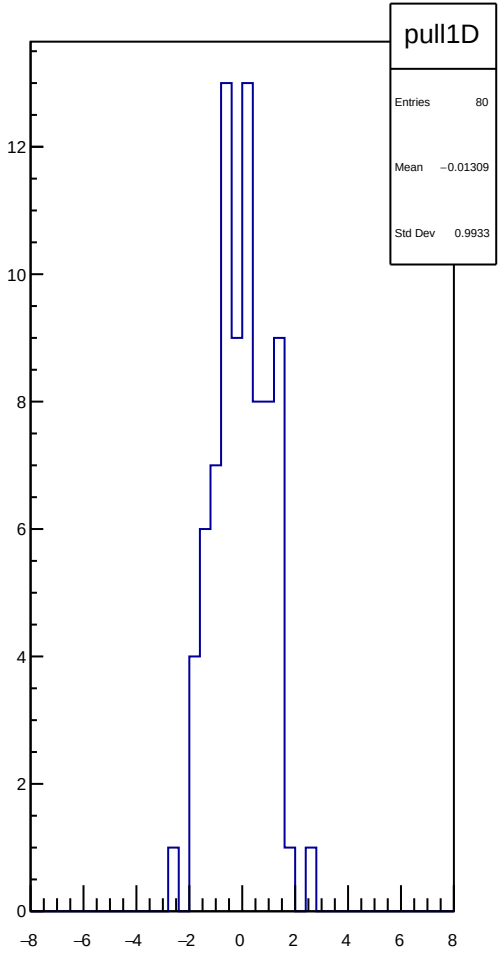

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 2157 / 79
p0 93.31 ± 0.07468
110
105
100
95
90

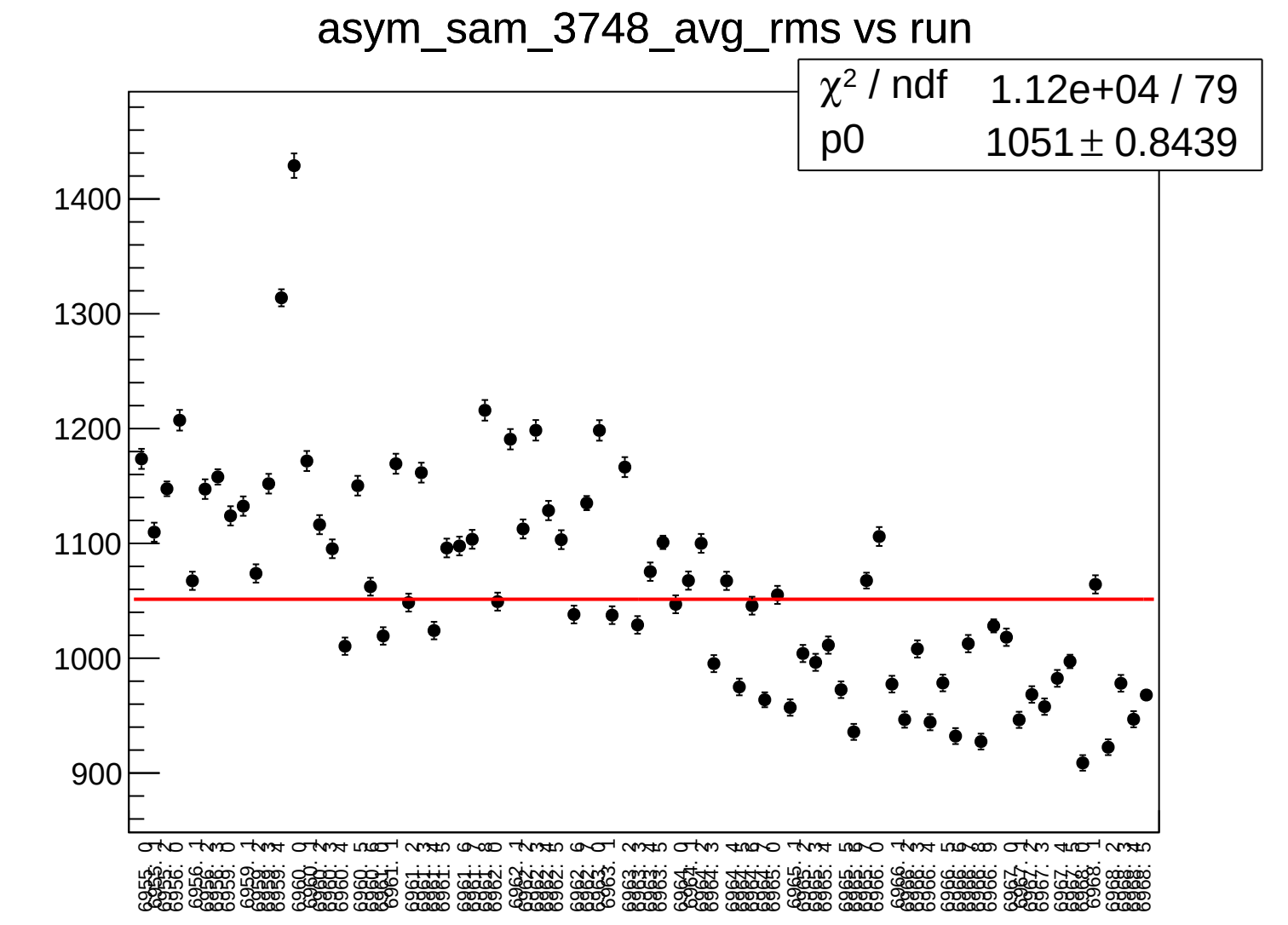

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 76.4 / 79
p0 −630.8 ± 1189
pull
Entries 80
Mean 55.99
Std Dev 34.91

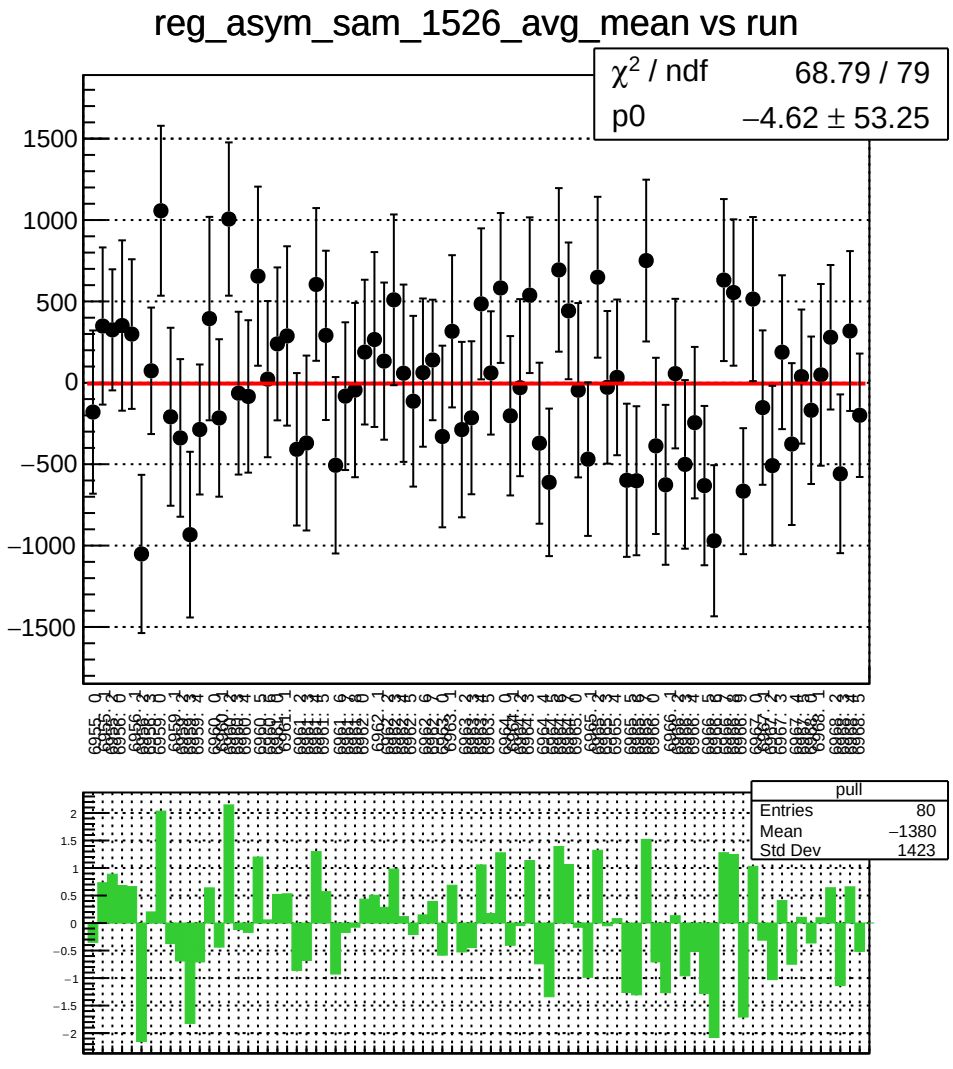

pull1D
Entries 80
Mean 0.01228
Std Dev 0.9772

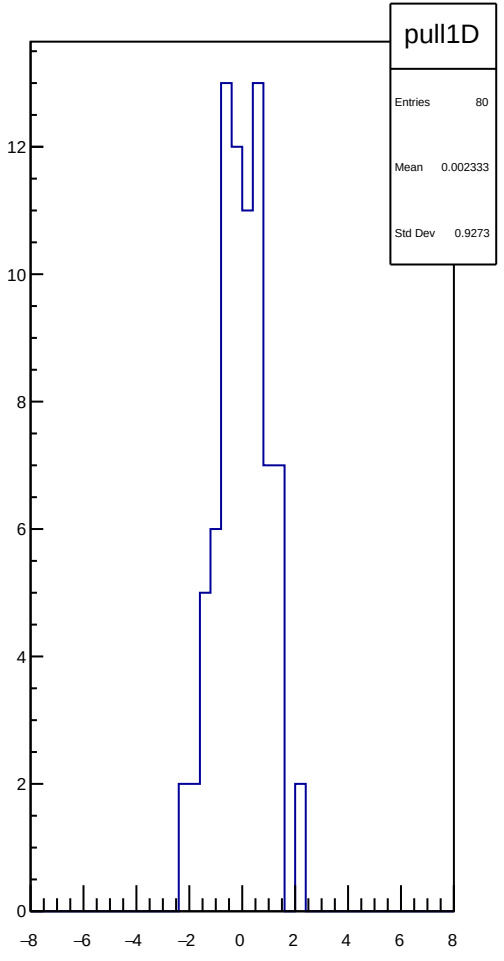

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 1.132e+04 / 79
p0 1047 ± 0.8406
1400
1300
1200
1100
1000
900

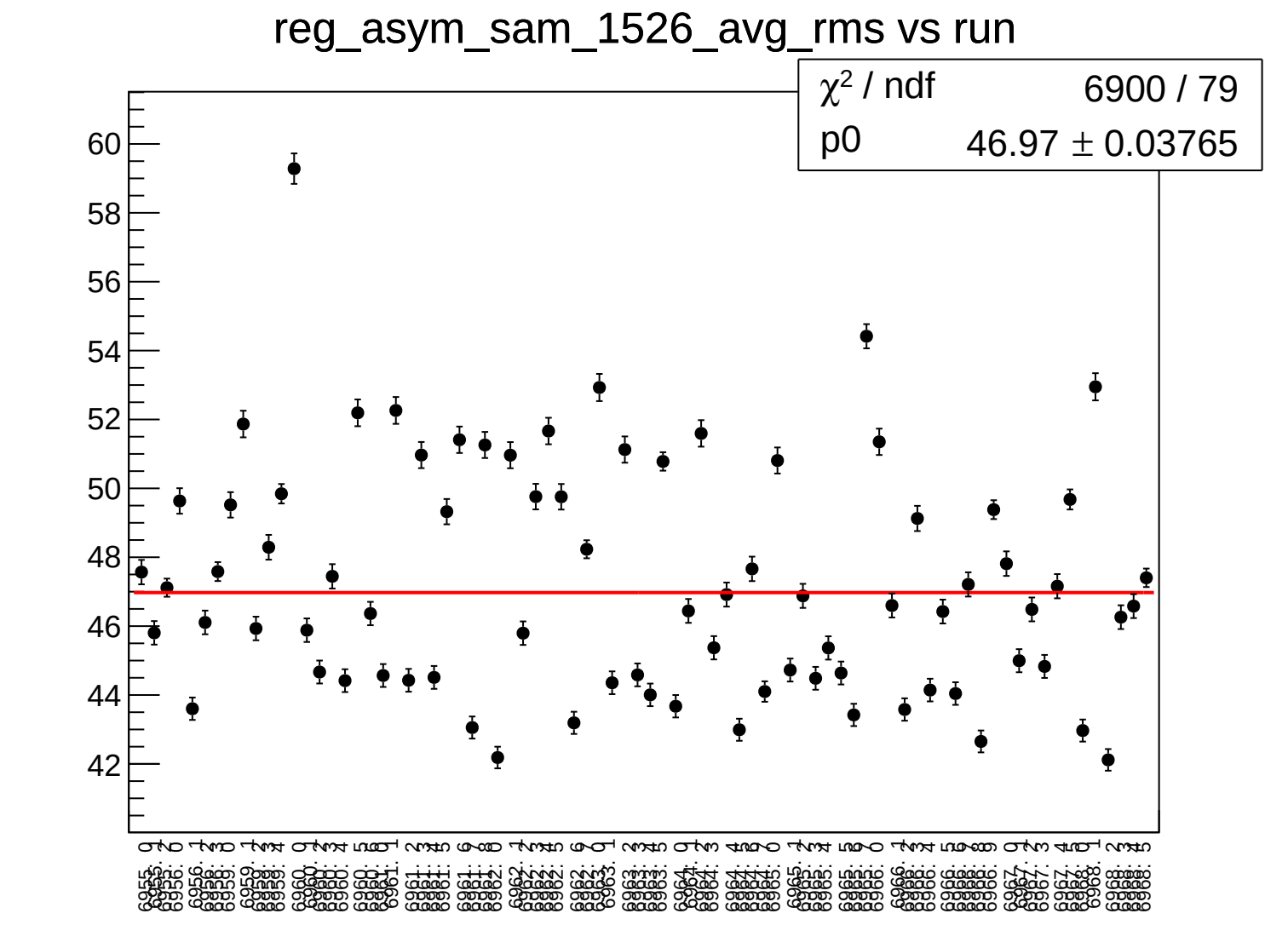

asym_sam_3748_avg_mean vs run
χ² / ndf 78.94 / 79
p0 768.8 ± 1194
pull
Entries 80
Mean 54.74
Std Dev 32.97

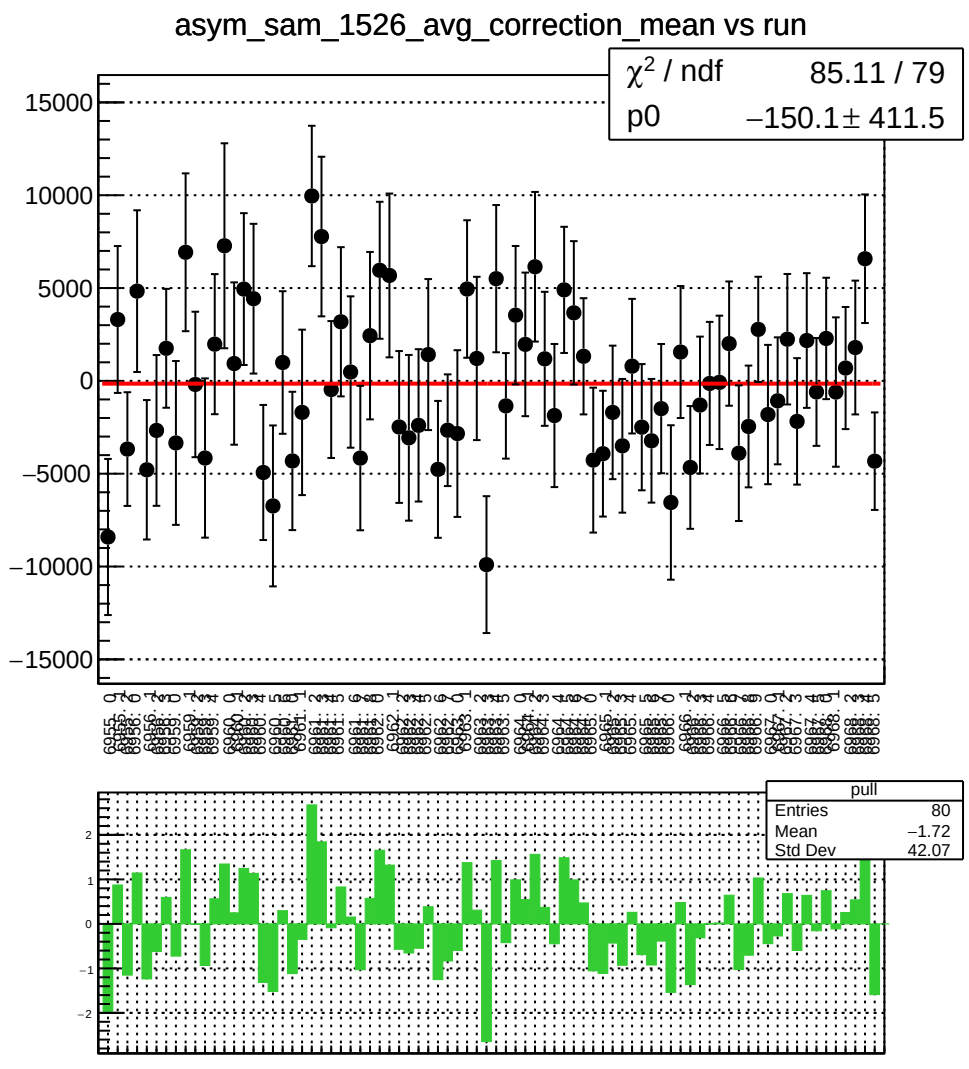

pull1D
Entries 80
Mean −0.01309
Std Dev 0.9933

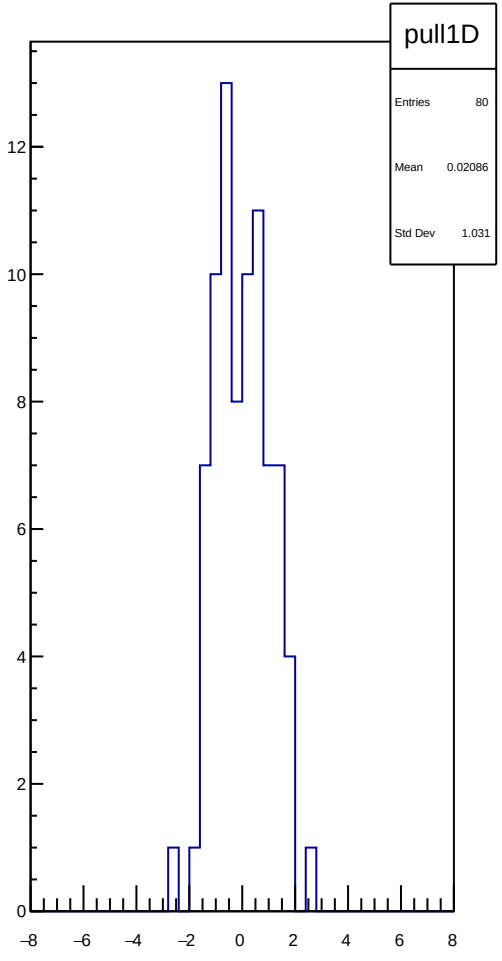

asym_sam_3748_avg_rms vs run
χ² / ndf 1.12e+04 / 79
p0 1051 ± 0.8439
1400
1300
1200
1100
1000
900

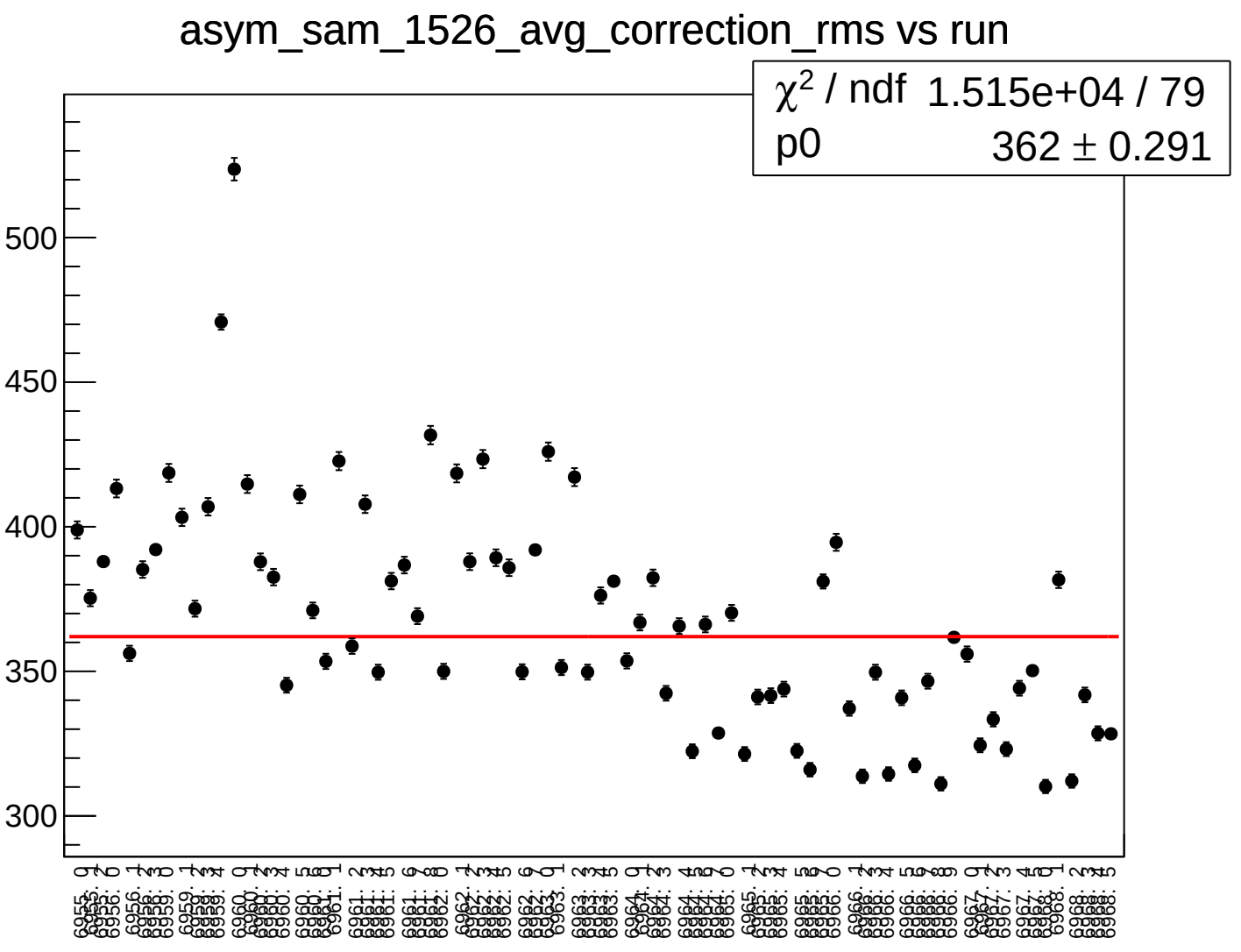

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 68.79 / 79
p0 −4.62 ± 53.25
pull
Entries 80
Mean −1380
Std Dev 1423

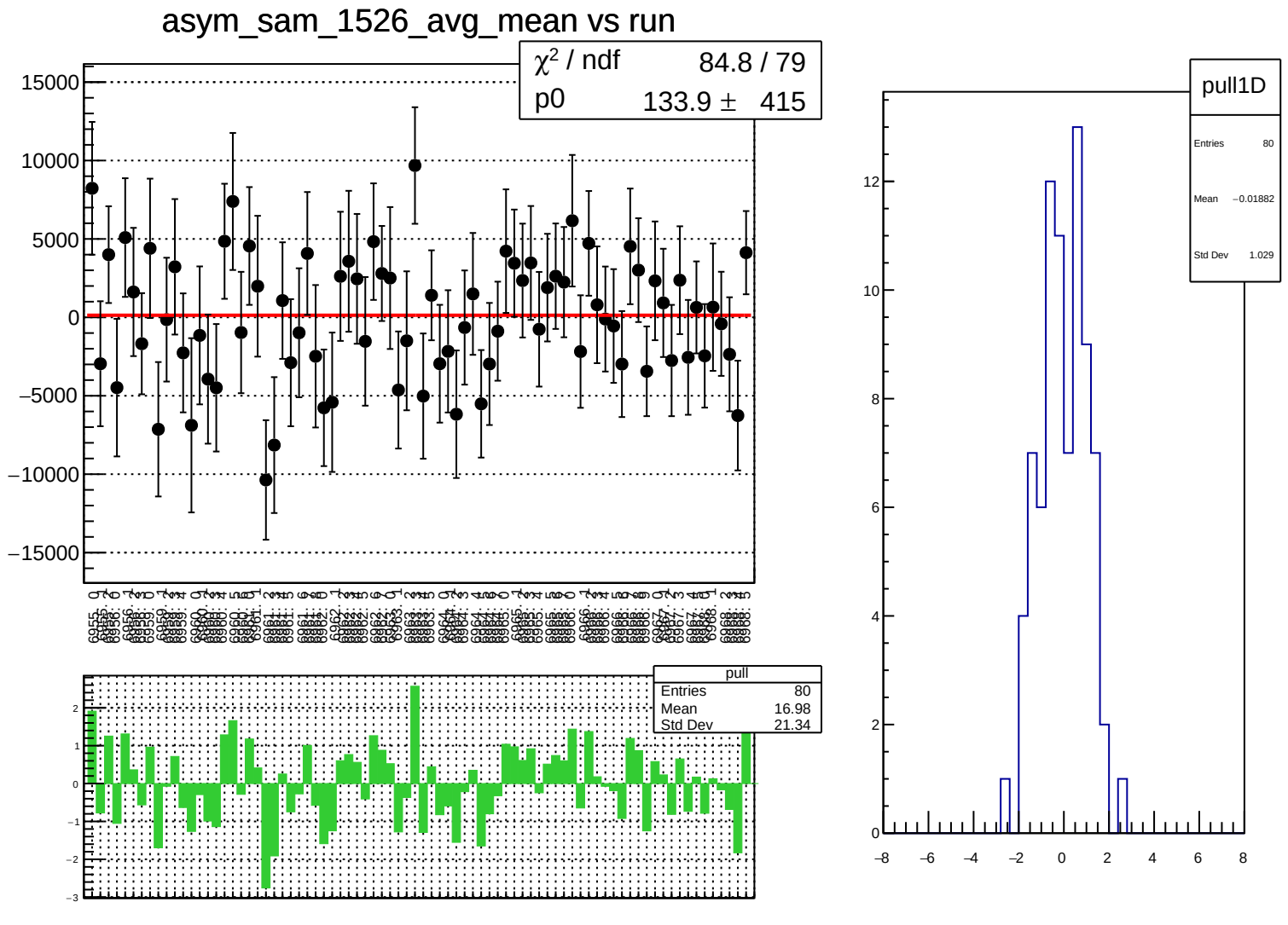

pull1D
Entries 80
Mean 0.002333
Std Dev 0.9273

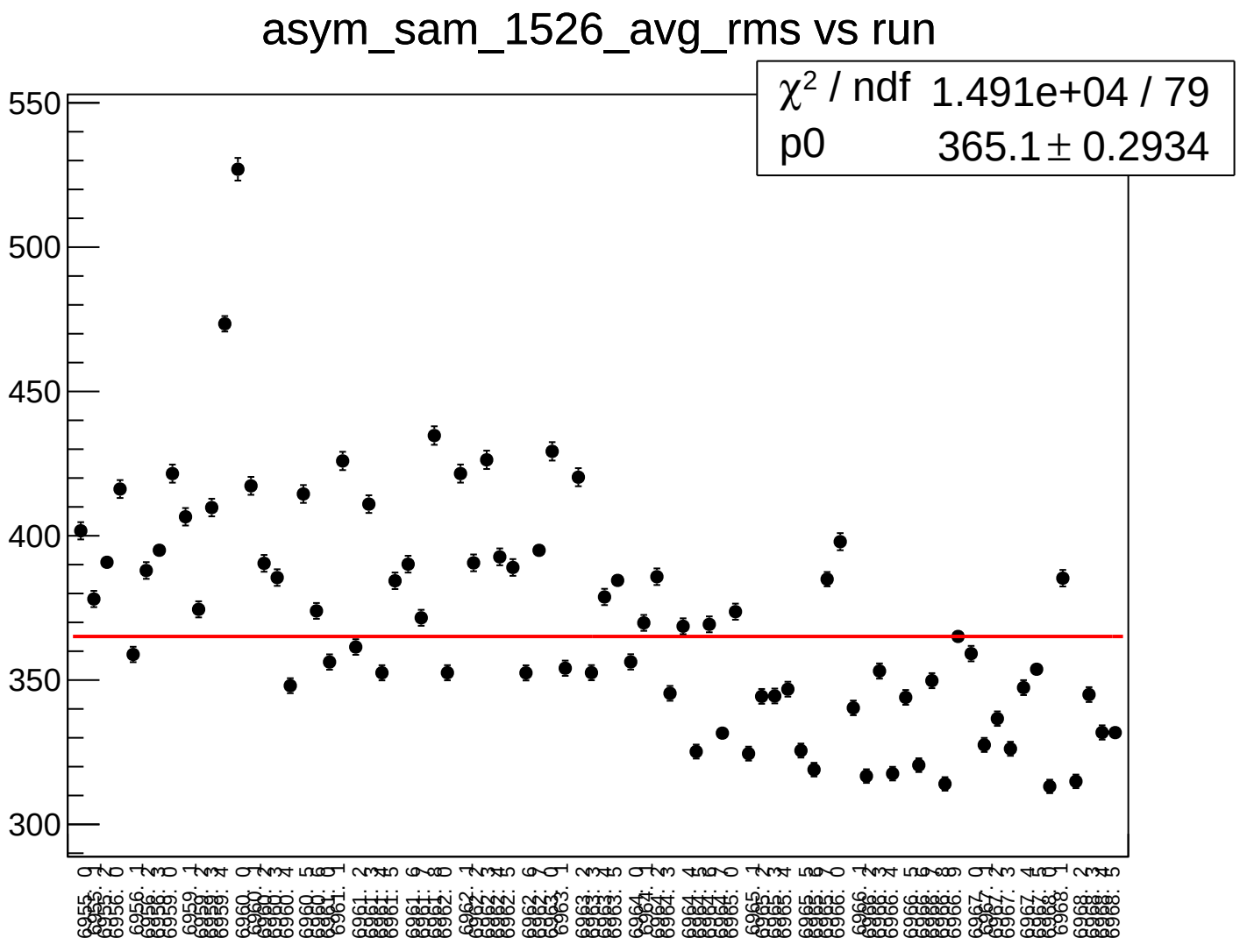

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 6900 / 79
p0 46.97 ± 0.03765
60
58
56
54
52
50
48
46
44
42

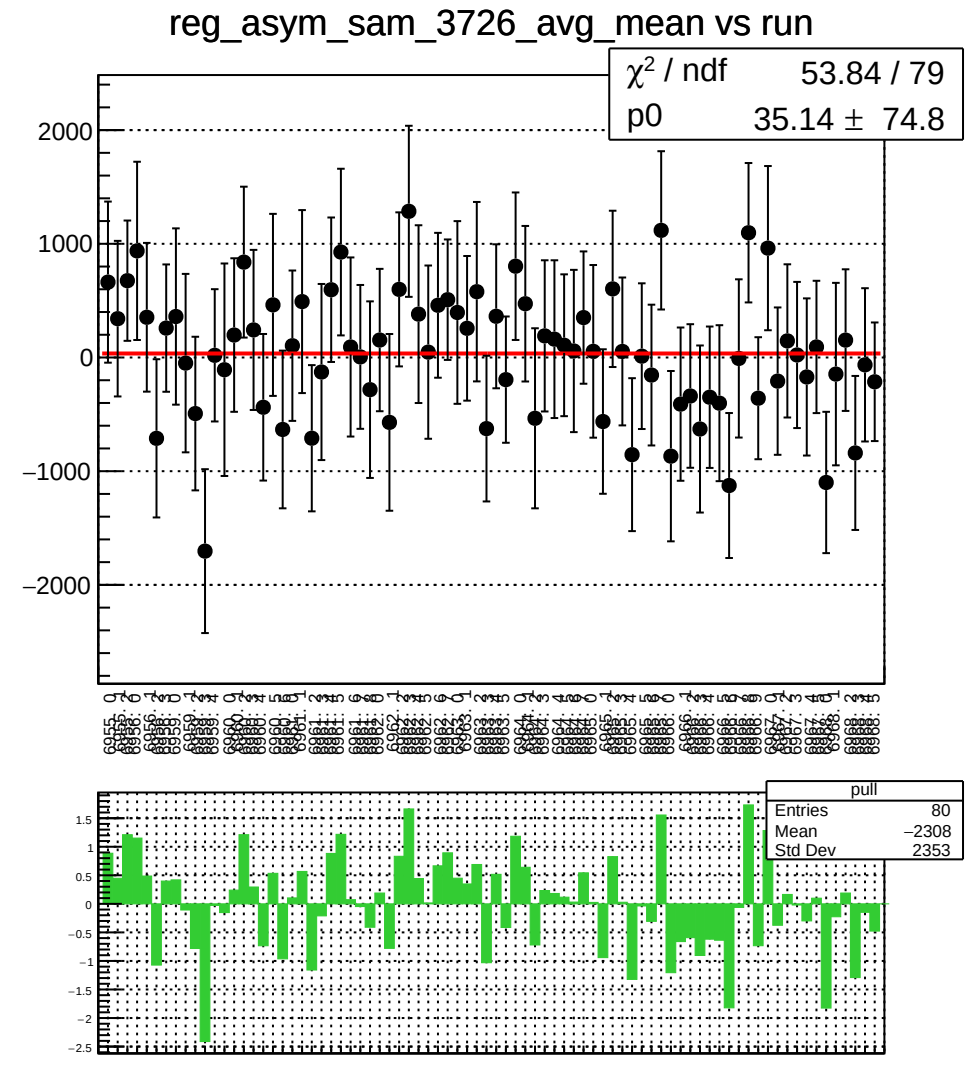

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 85.11 / 79
p0 −150.1 ± 411.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 80
Mean −1.72
Std Dev 42.07
2
1
0
−1
−2

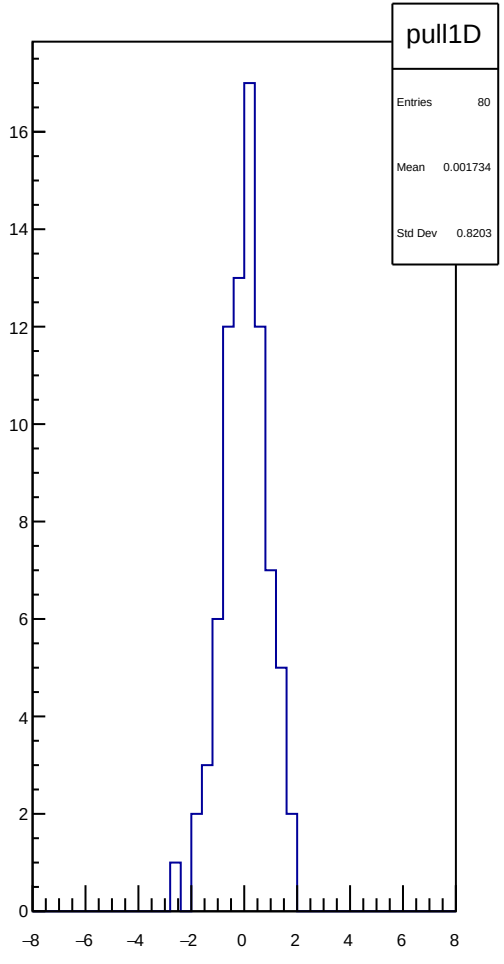

pull1D
Entries 80
Mean 0.02086
Std Dev 1.031
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

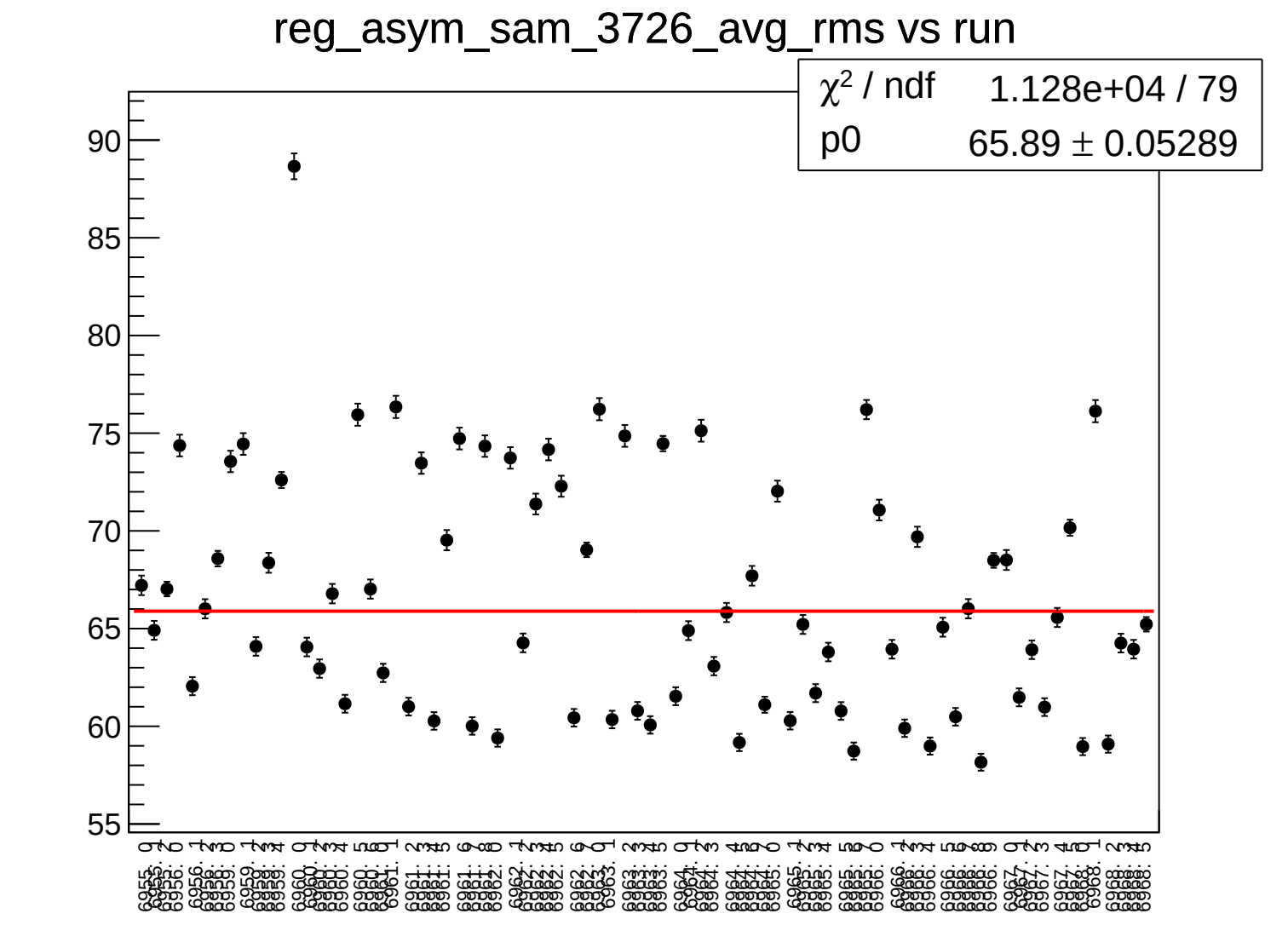

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 1.515e+04 / 79
p0 362 ± 0.291
500
450
400
350
300

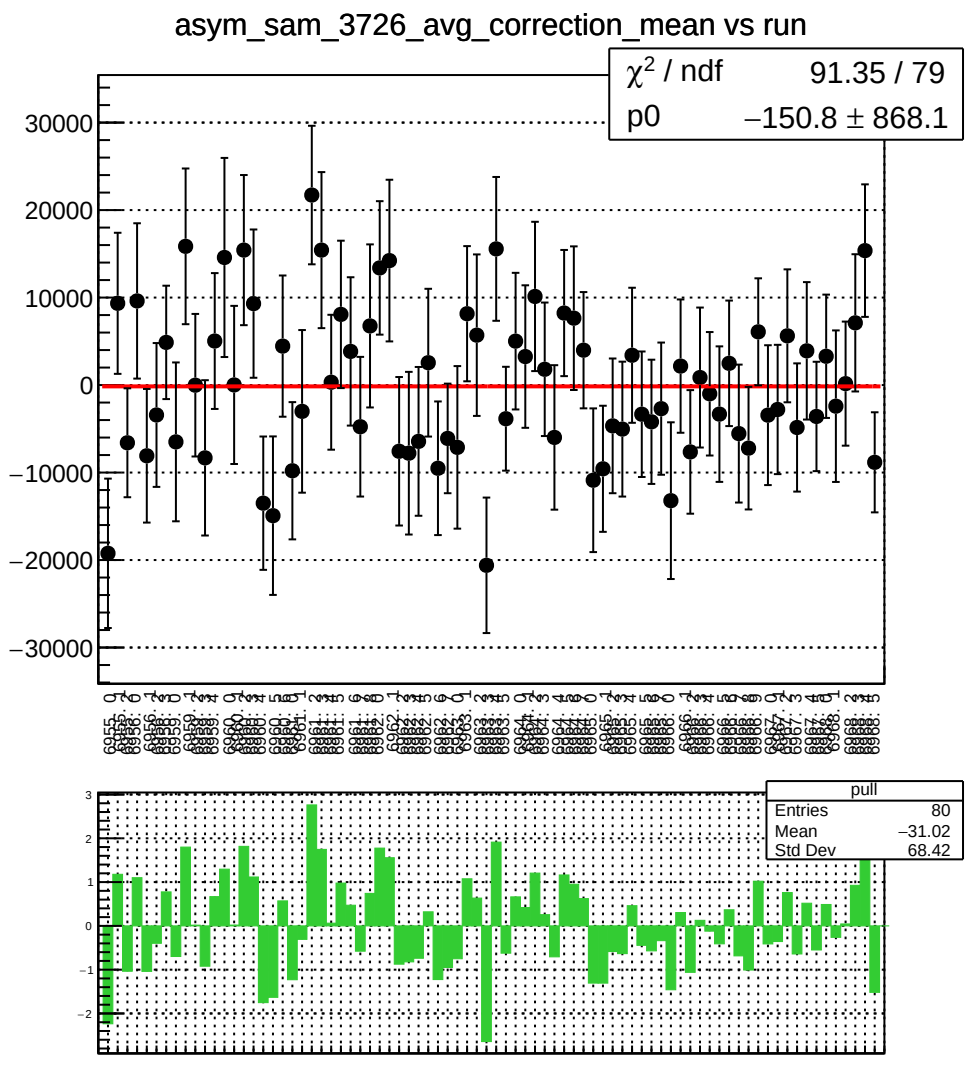

asym_sam_1526_avg_mean vs run
χ² / ndf 84.8 / 79
p0 133.9 ± 415
pull
Entries 80
Mean 16.98
Std Dev 21.34
pull1D
Entries 80
Mean −0.01882
Std Dev 1.029

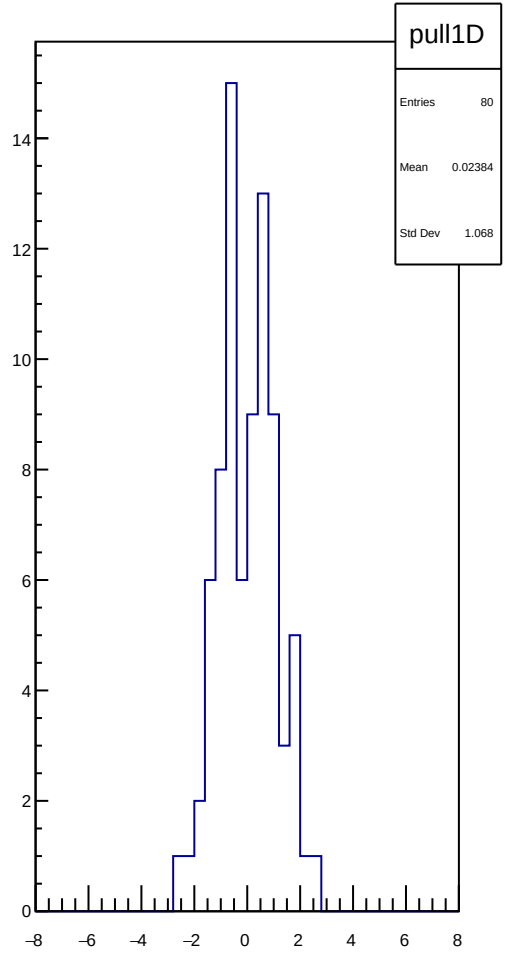

asym_sam_1526_avg_rms vs run
χ² / ndf 1.491e+04 / 79
p0 365.1 ± 0.2934
550
500
450
400
350
300

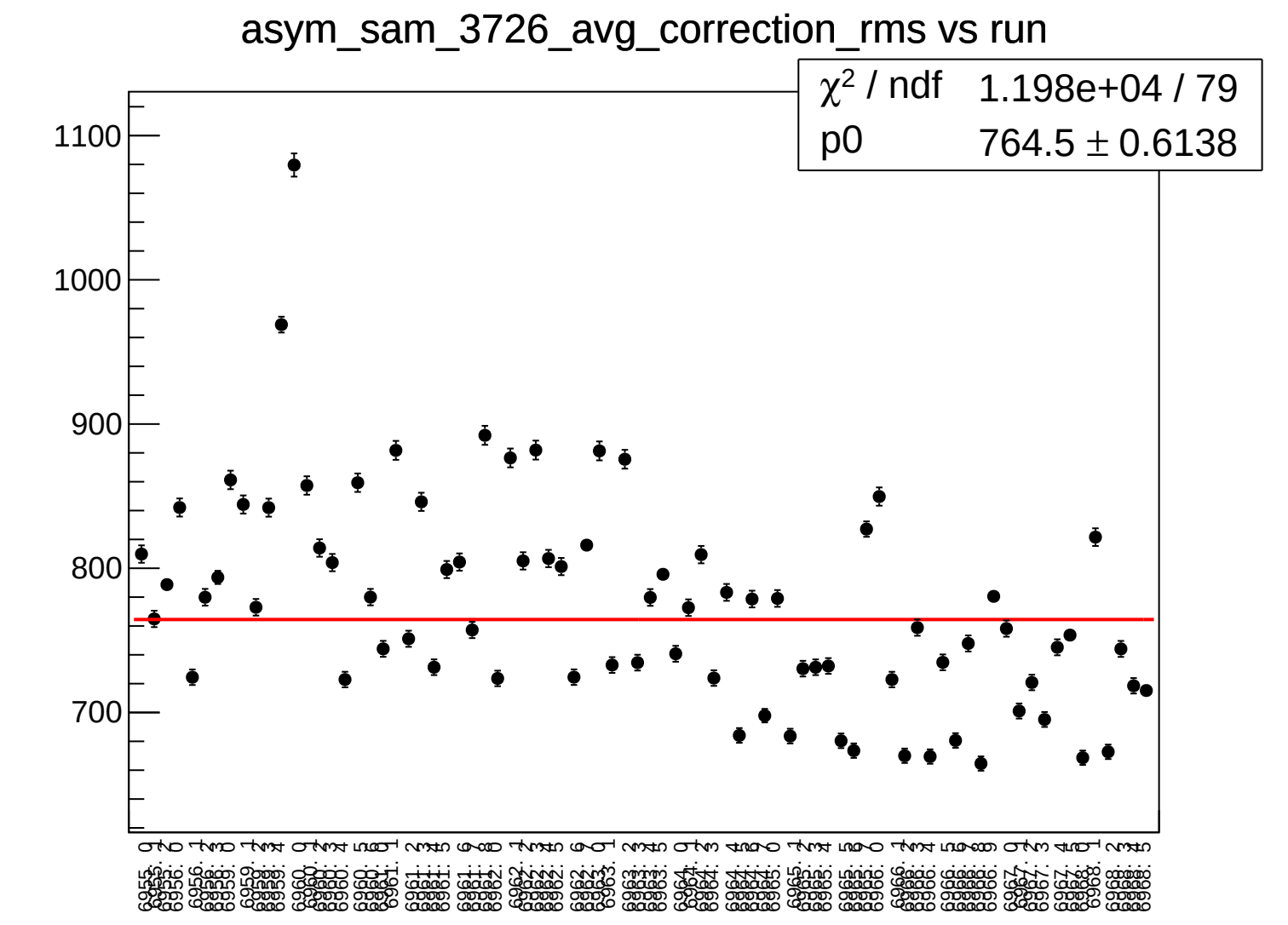

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 53.84 / 79
p0 35.14 ± 74.8
pull
Entries 80
Mean −2308
Std Dev 2353

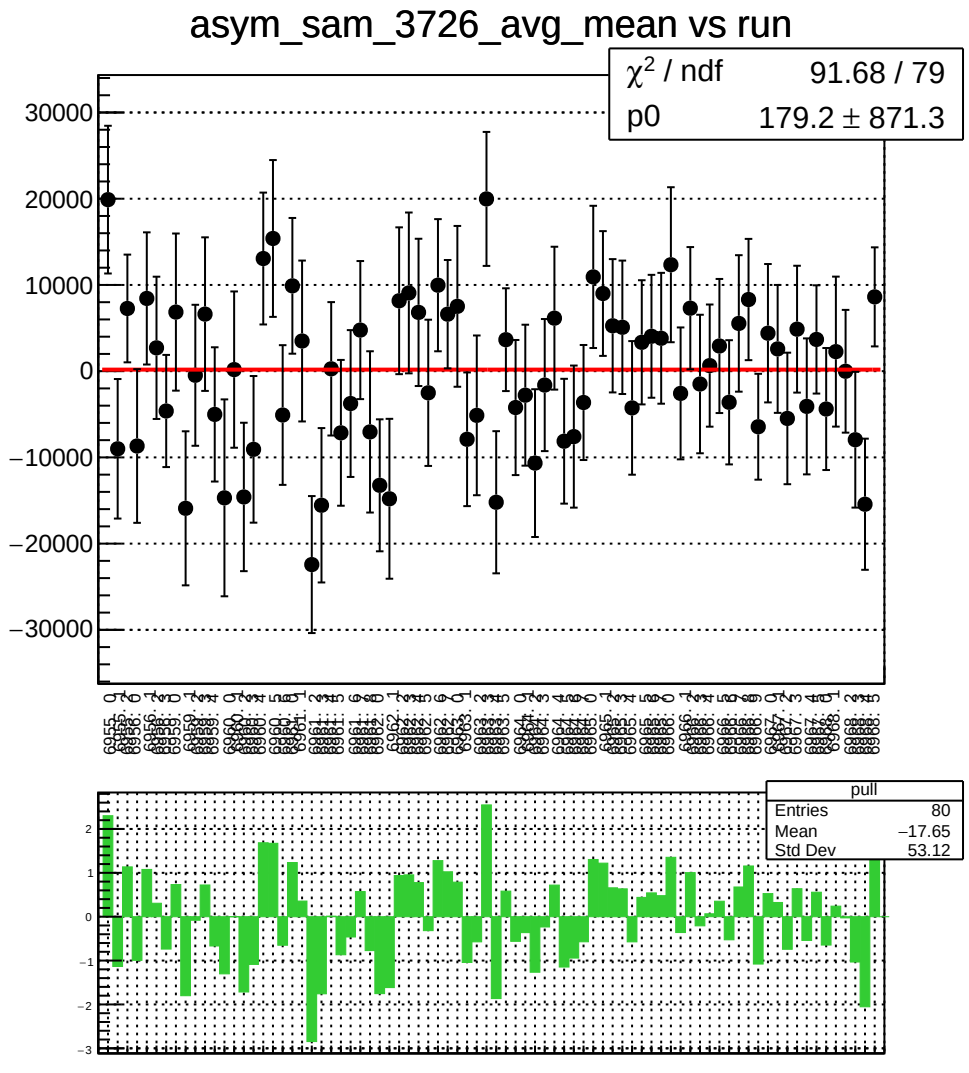

pull1D
Entries 80
Mean 0.001734
Std Dev 0.8203

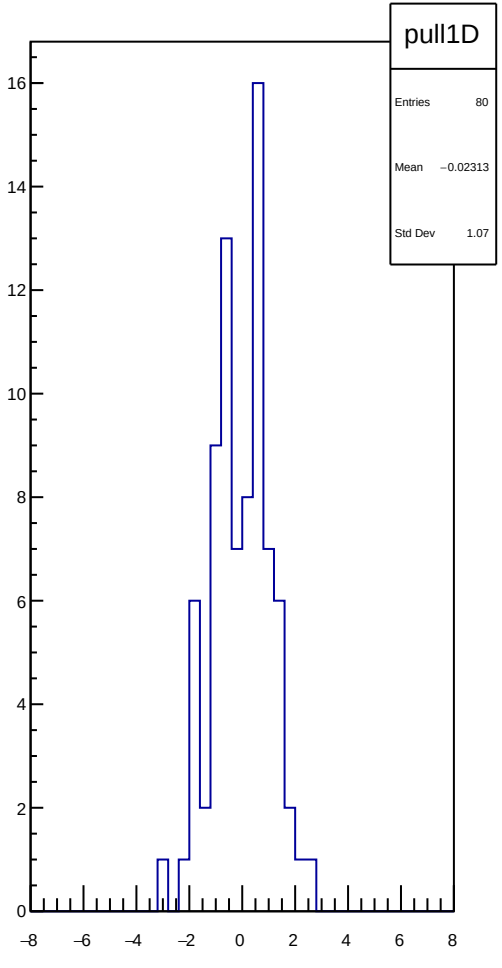

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.128e+04 / 79
p0 65.89 ± 0.05289
90
85
80
75
70
65
60
55

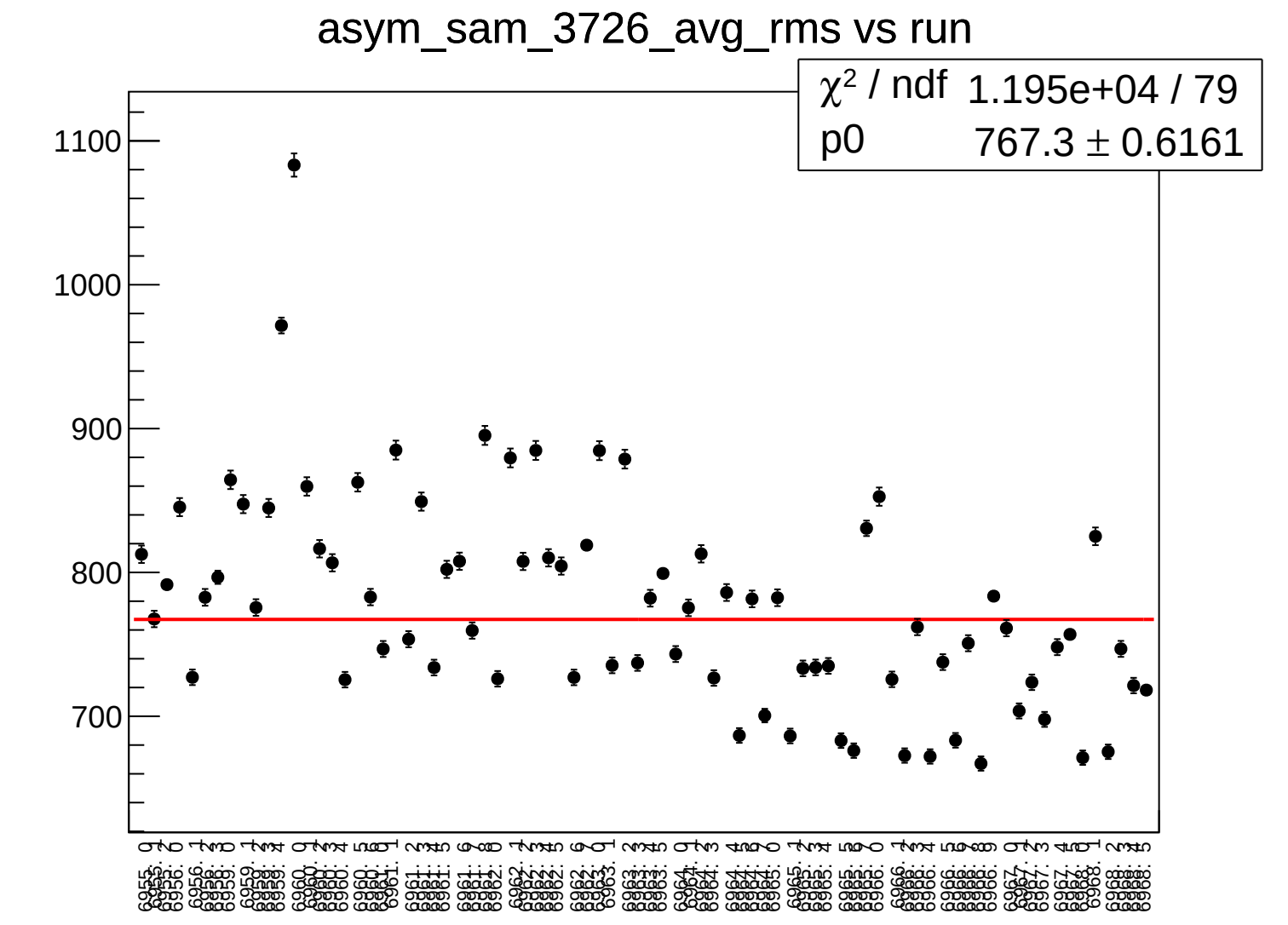

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 91.35 / 79
p0 −150.8 ± 868.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 80
Mean −31.02
Std Dev 68.42
3
2
1
0
−1
−2

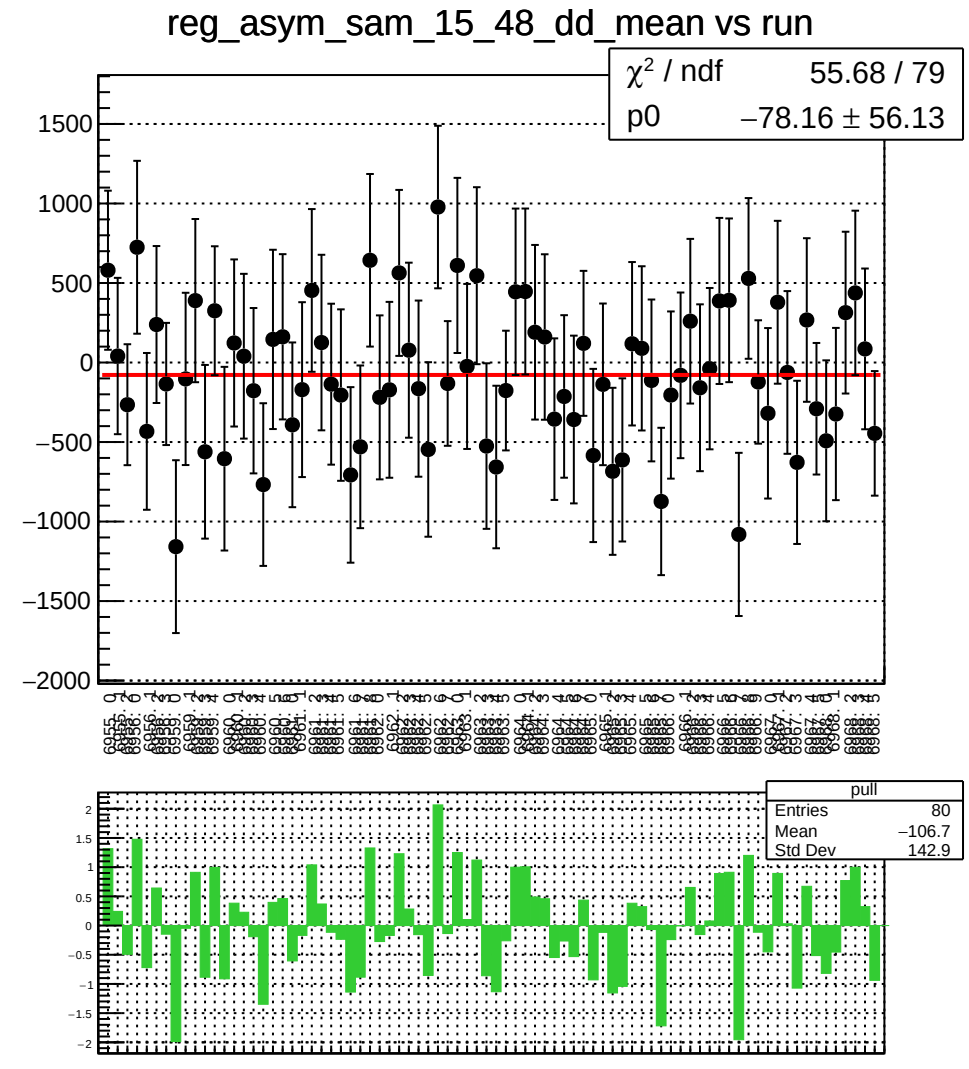

pull1D
Entries 80
Mean 0.02384
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

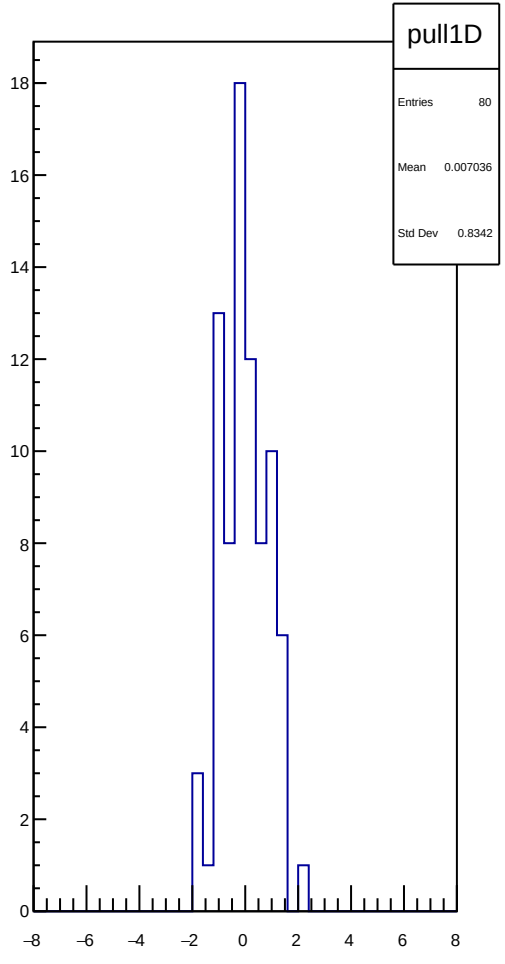

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 1.198e+04 / 79
p0 764.5 ± 0.6138
1100
1000
900
800
700

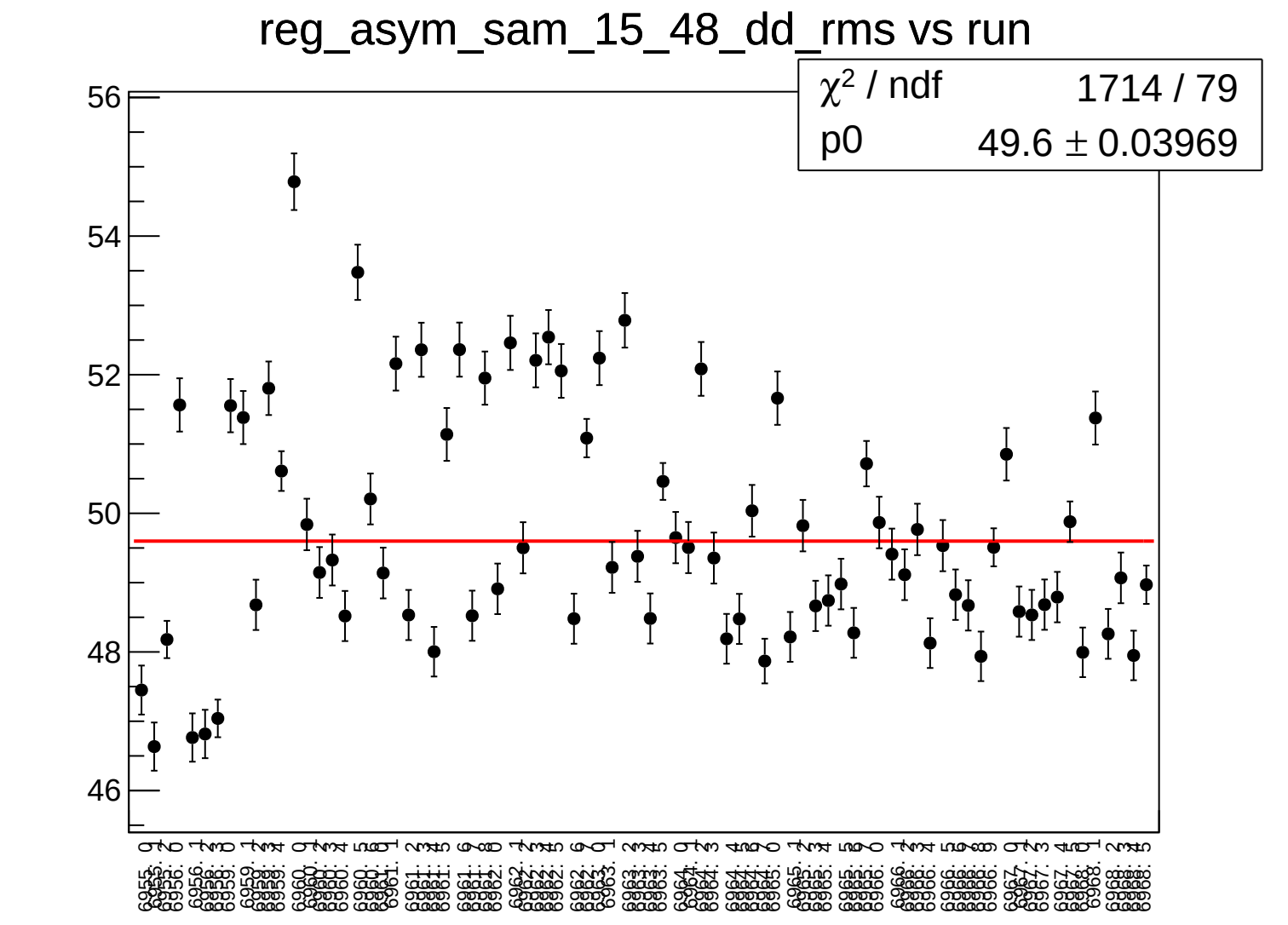

asym_sam_3726_avg_mean vs run
χ^2 / ndf 91.68 / 79
p0 179.2 ± 871.3
pull
Entries 80
Mean −17.65
Std Dev 53.12

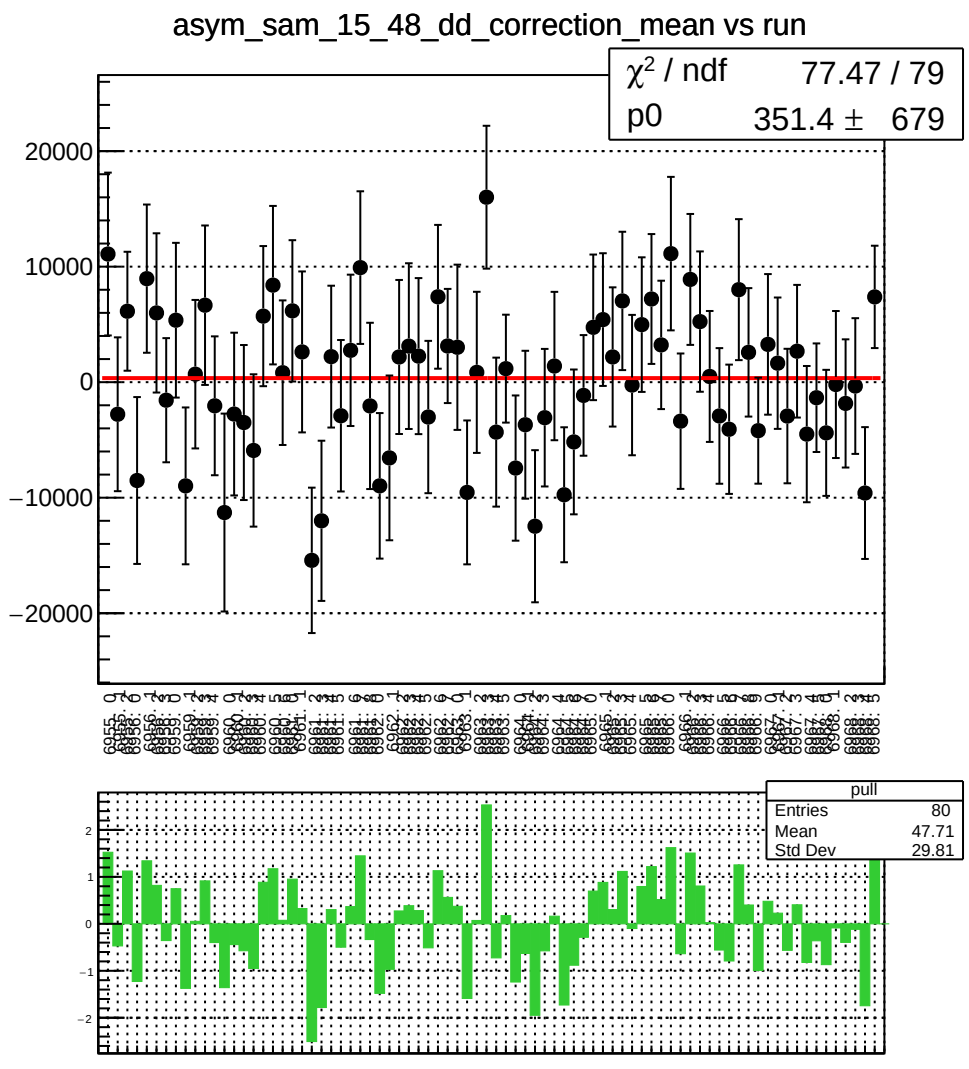

pull1D
Entries 80
Mean −0.02313
Std Dev 1.07

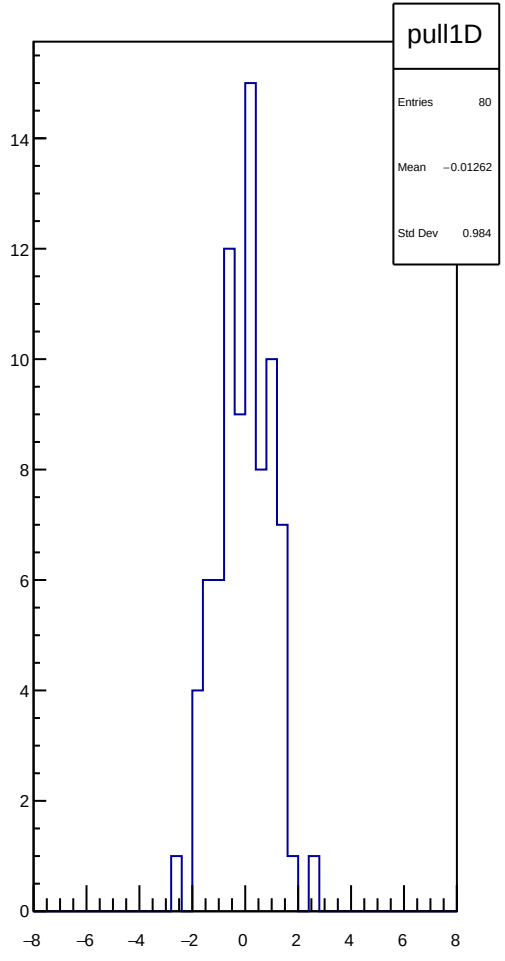

asym_sam_3726_avg_rms vs run
χ² / ndf 1.195e+04 / 79
p0 767.3 ± 0.6161
1100
1000
900
800
700

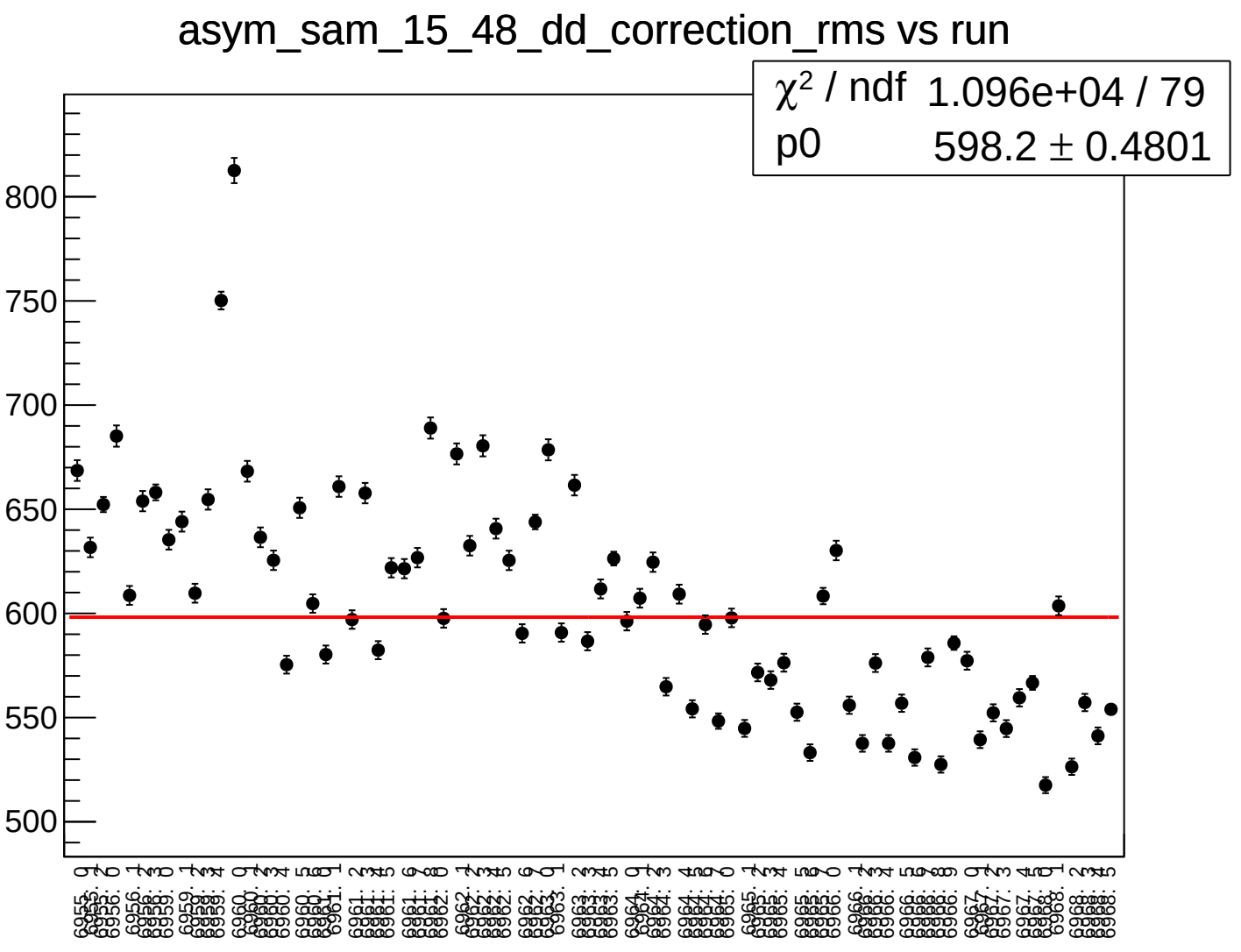

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 55.68 / 79
p0 −78.16 ± 56.13
pull
Entries 80
Mean −106.7
Std Dev 142.9

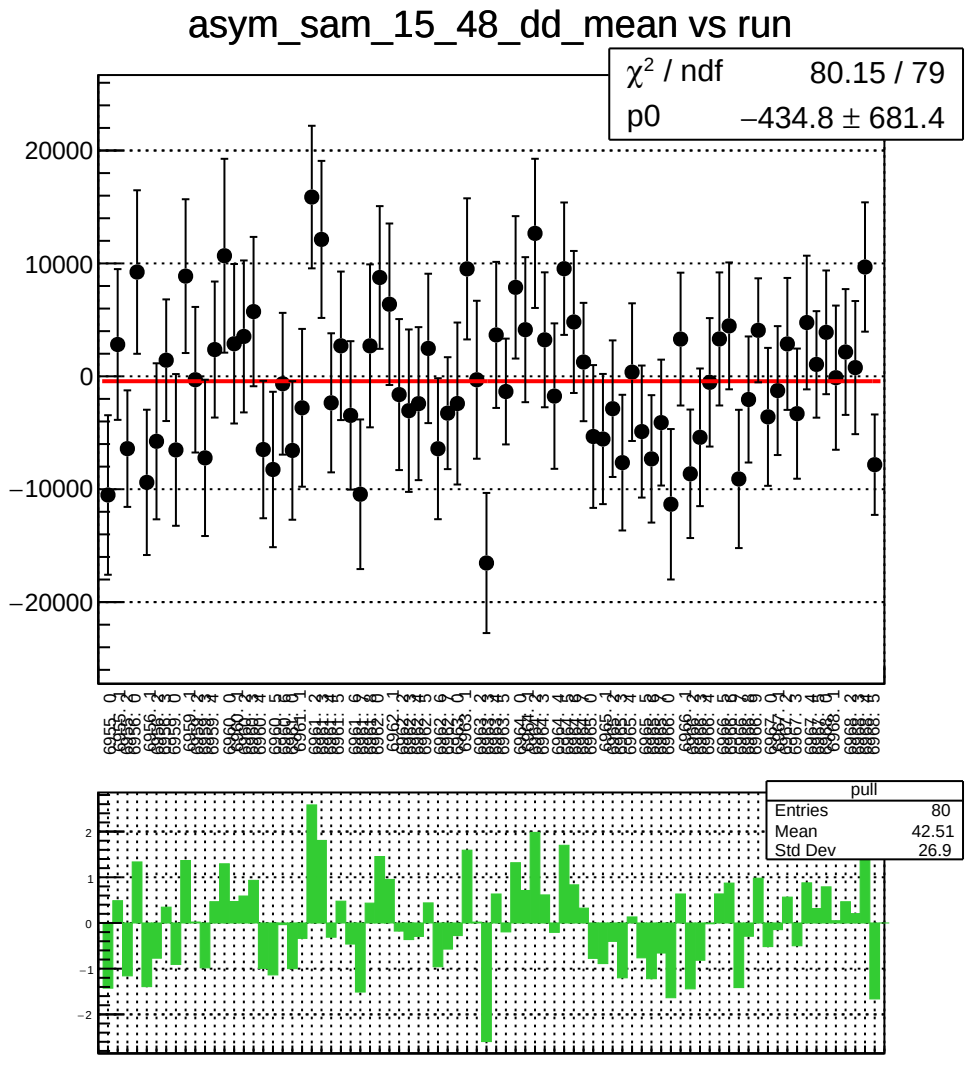

pull1D
Entries 80
Mean 0.007036
Std Dev 0.8342

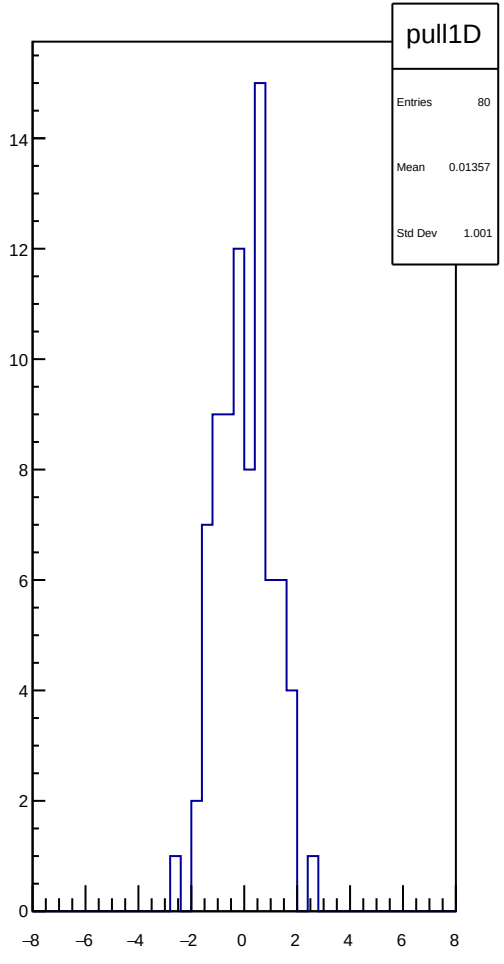

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1714 / 79
p0 49.6 ± 0.03969
56
54
52
50
48
46


asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 77.47 / 79
p0 351.4 ± 679
20000
10000
0
−10000
−20000
pull
Entries 80
Mean 47.71
Std Dev 29.81
2
1
0
−1
−2

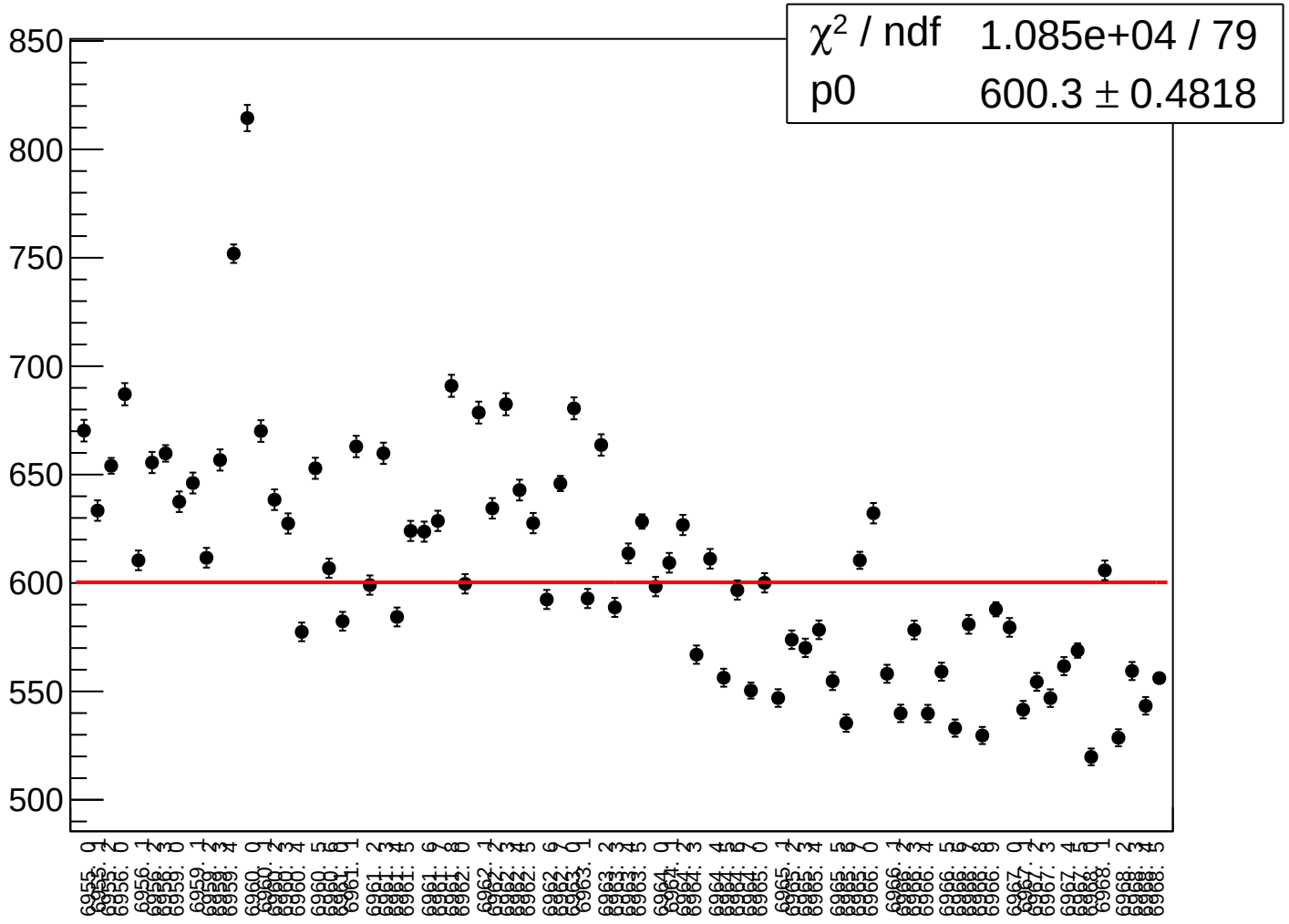

pull1D
Entries 80
Mean −0.01262
Std Dev 0.984
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

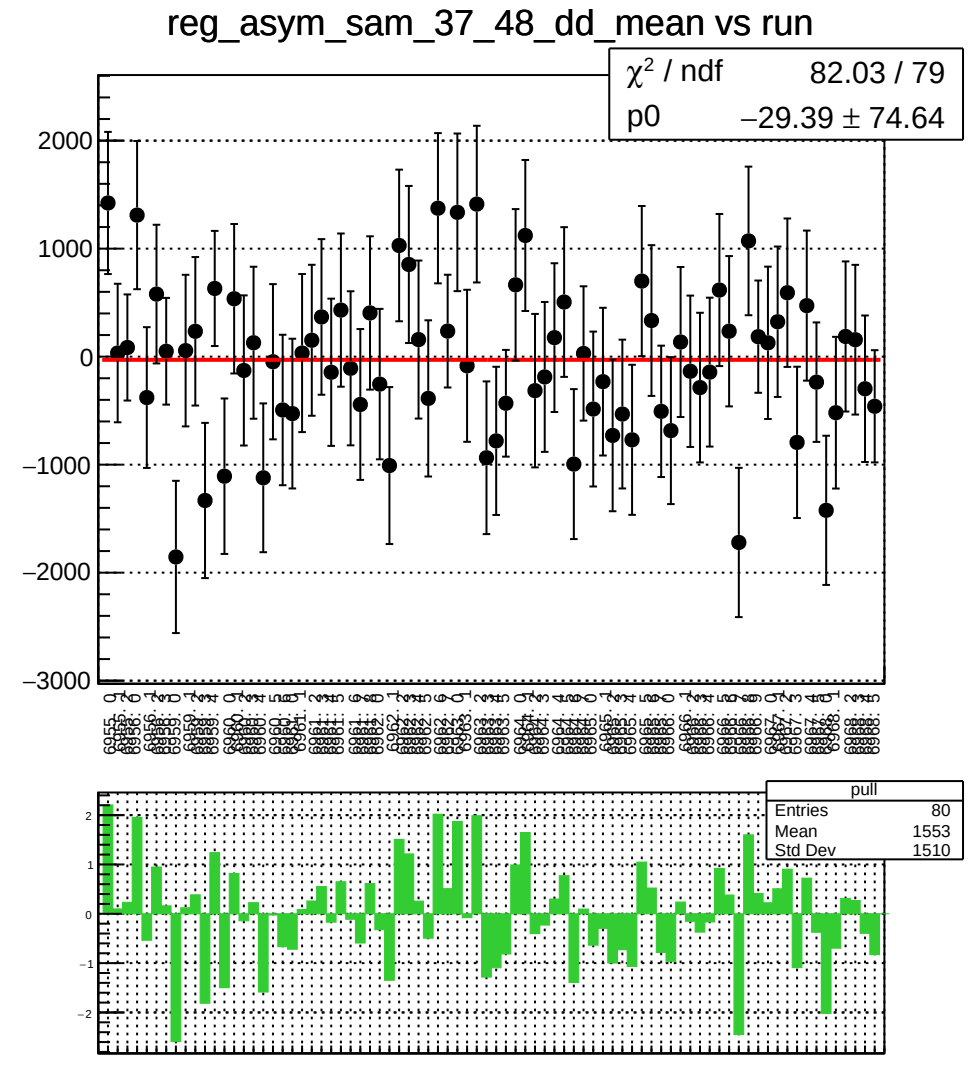

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 1.096e+04 / 79
p0 598.2 ± 0.4801
800
750
700
650
600
550
500

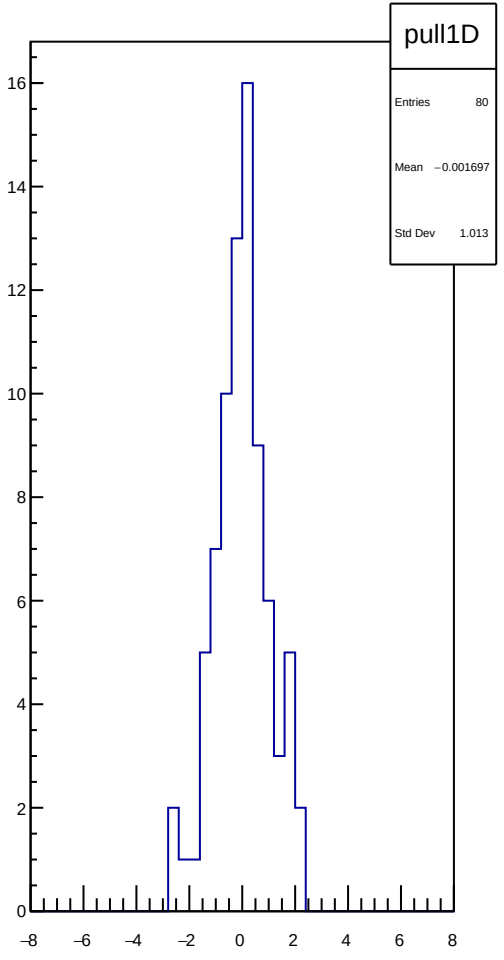

asym_sam_15_48_dd_mean vs run
χ² / ndf 80.15 / 79
p0 −434.8 ± 681.4
20000
10000
0
−10000
−20000
pull
Entries 80
Mean 42.51
Std Dev 26.9
2
1
0
−1
−2

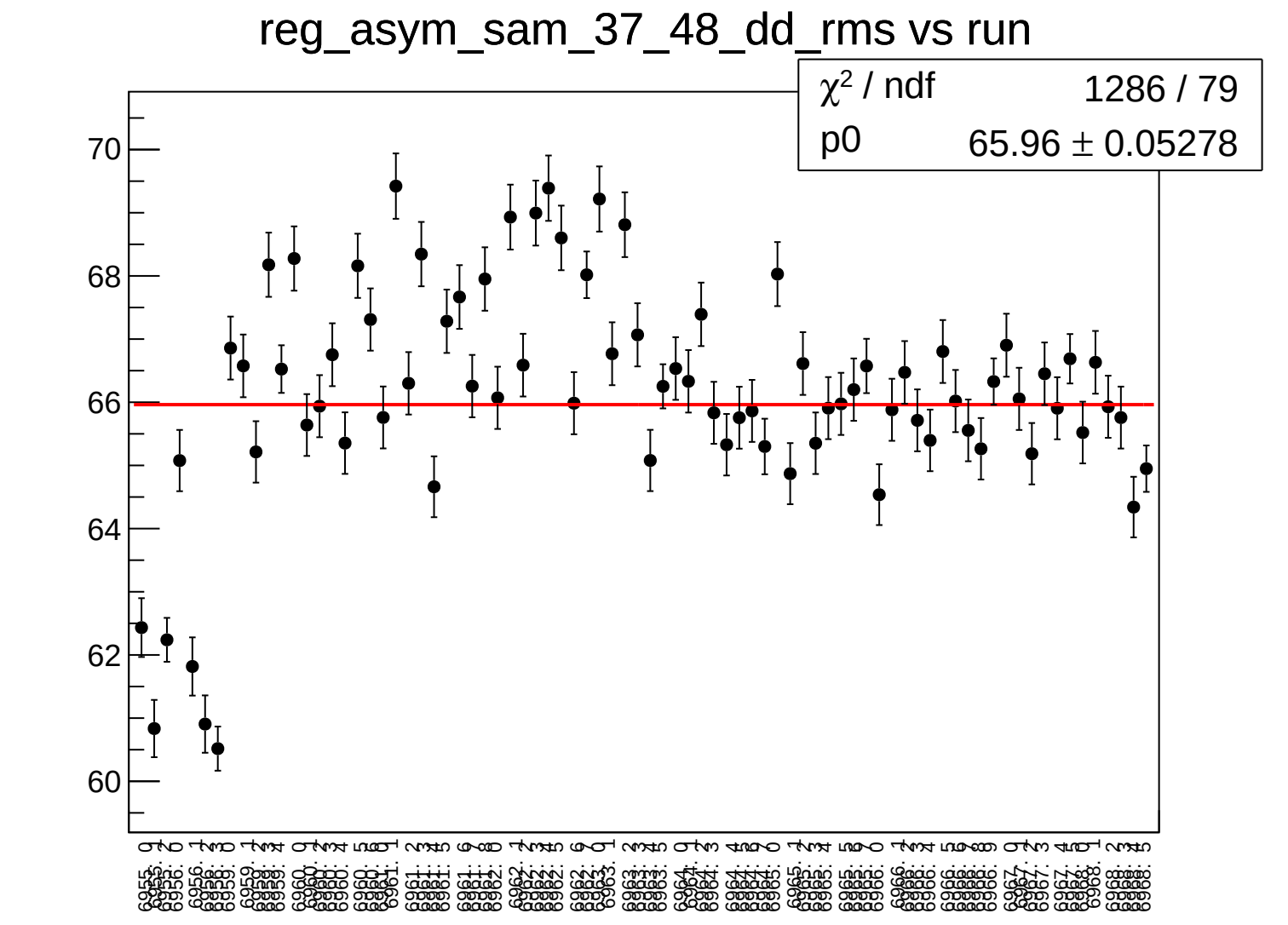

pull1D
Entries 80
Mean 0.01357
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

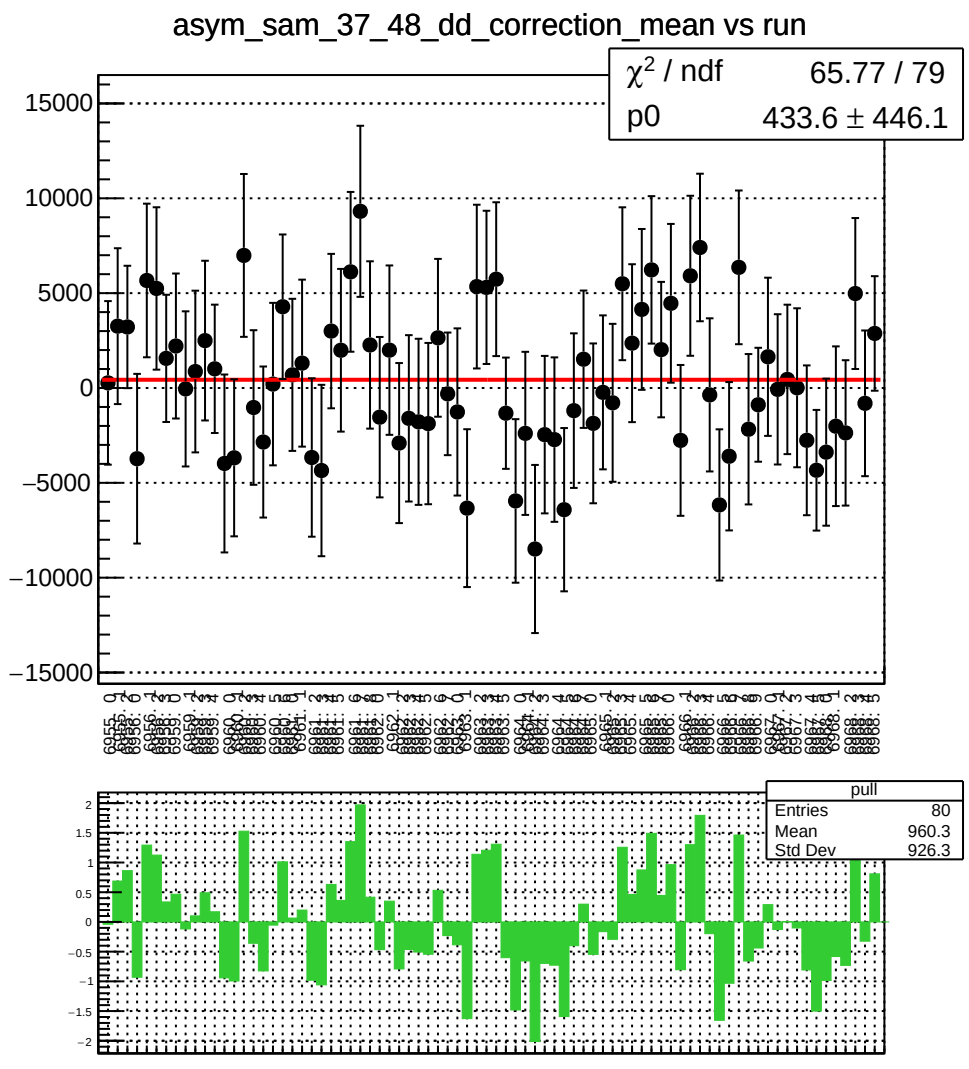
asym_sam_15_48_dd_rms vs run

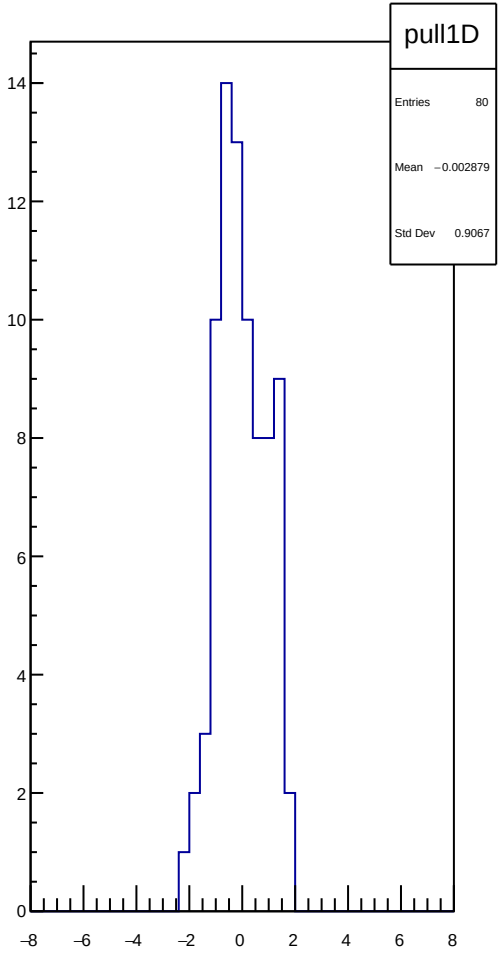


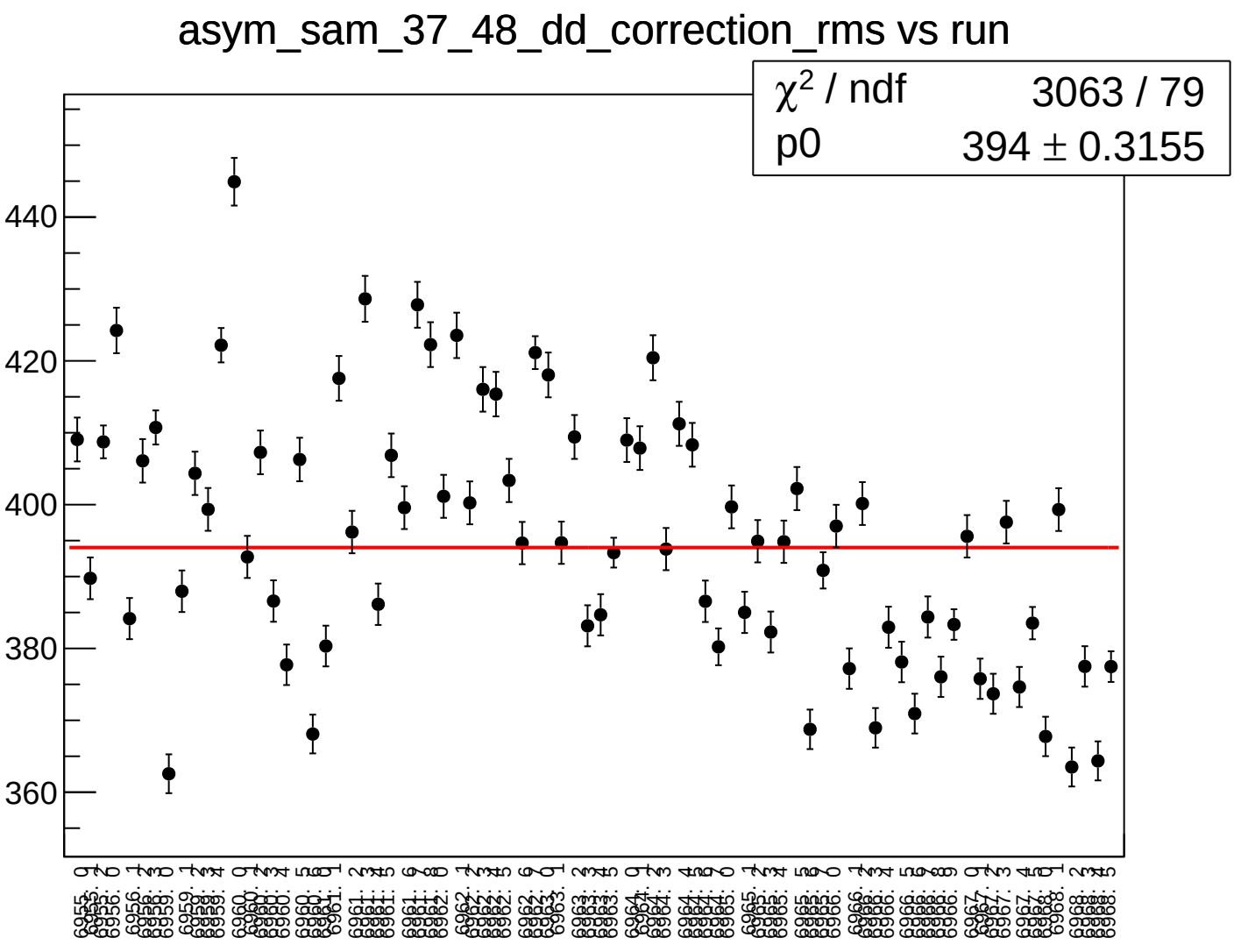

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 82.03 / 79
p0 −29.39 ± 74.64
pull
Entries 80
Mean 1553
Std Dev 1510

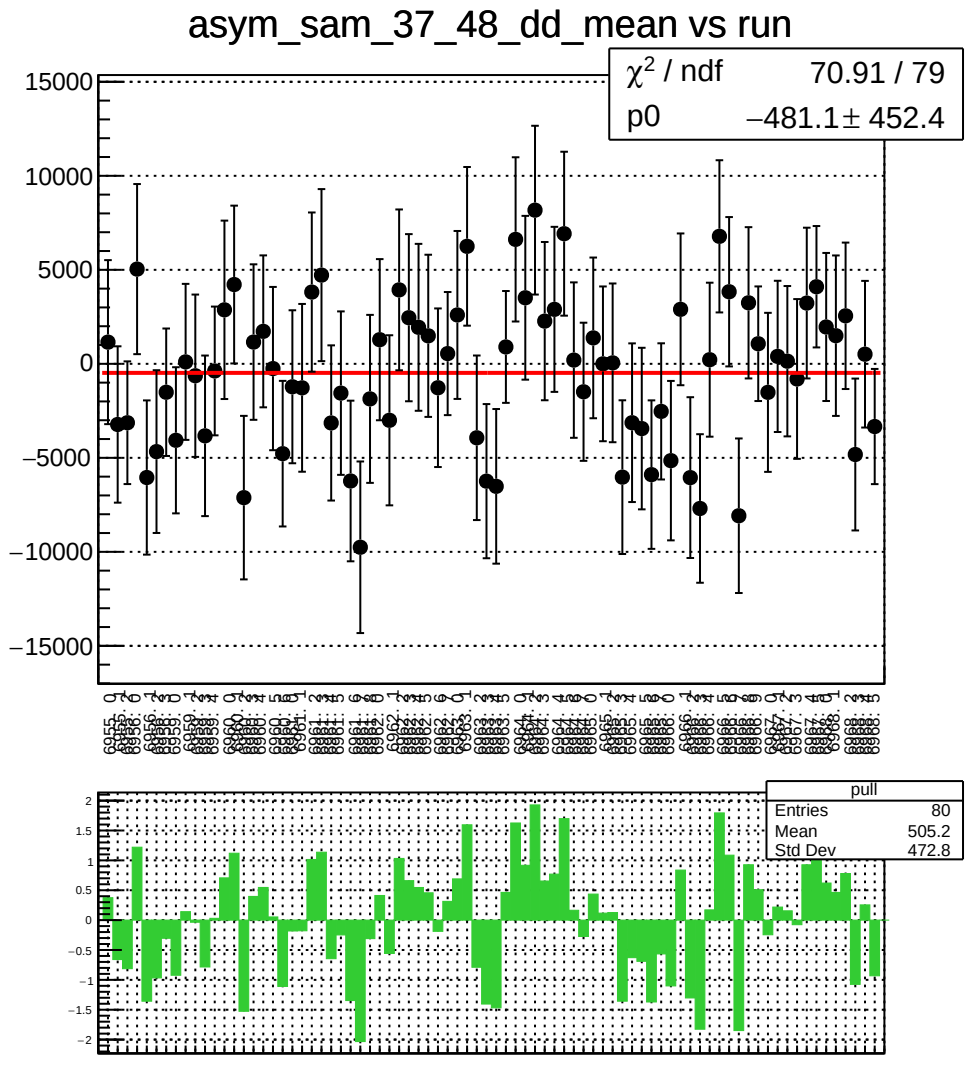

pull1D
Entries 80
Mean −0.001697
Std Dev 1.013

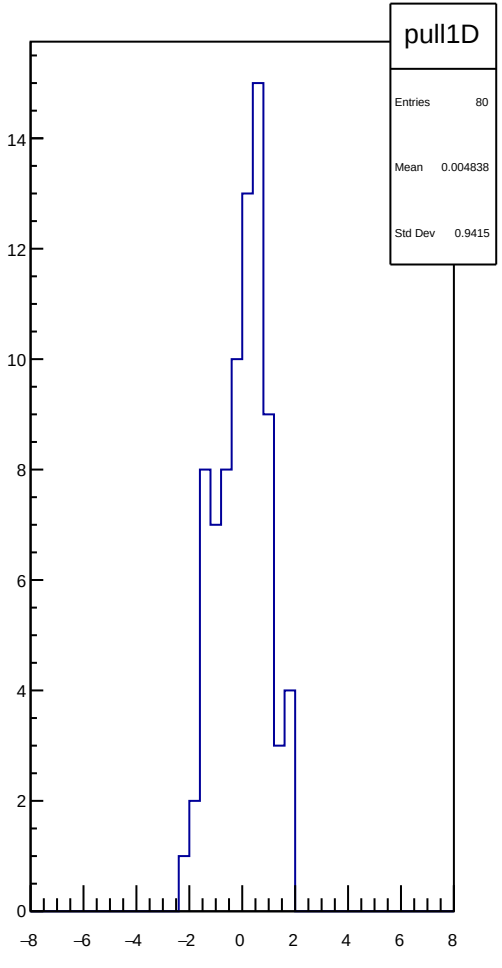

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1286 / 79
p0 65.96 ± 0.05278
70
68
66
64
62
60

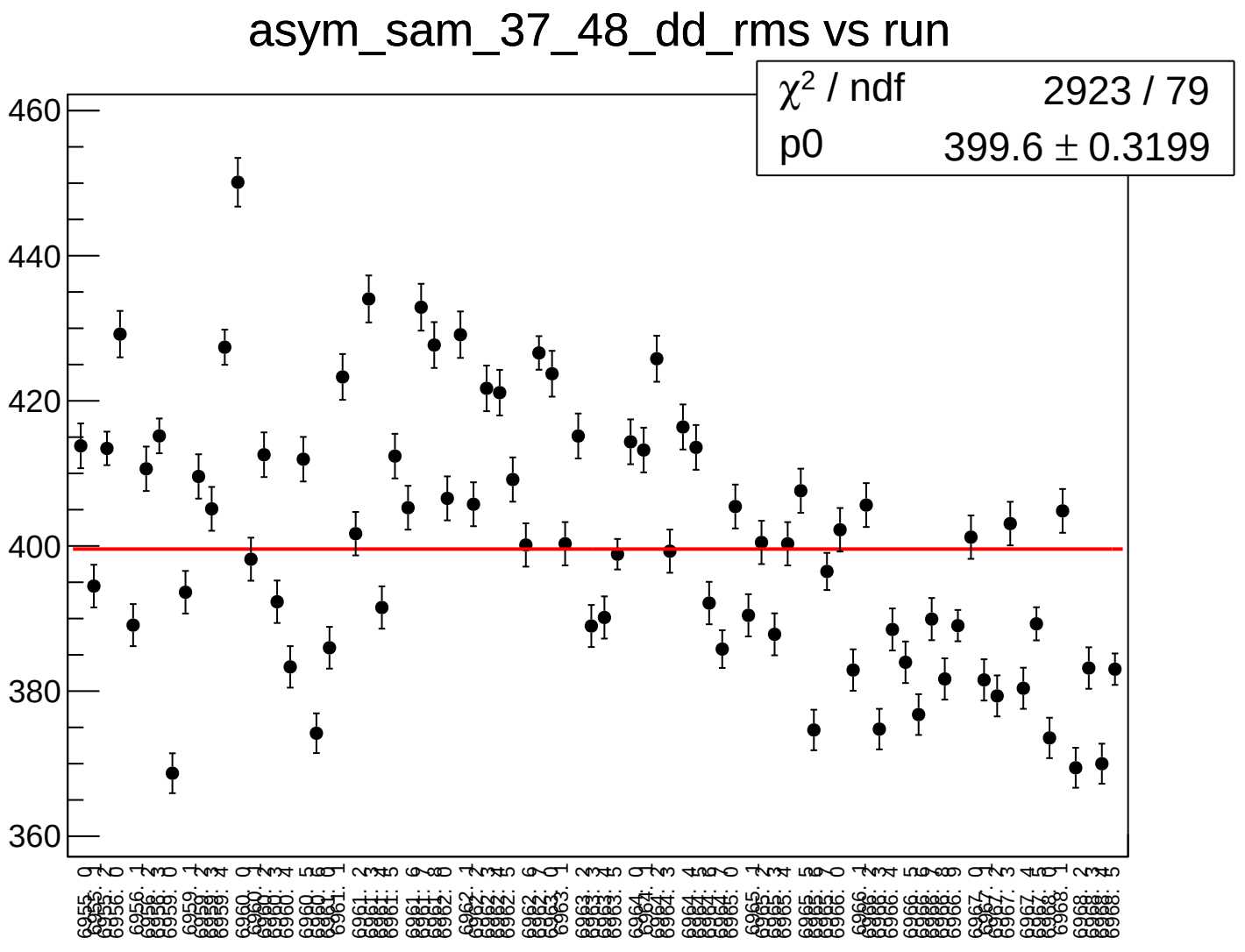

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 65.77 / 79
p0 433.6 ± 446.1
pull
Entries 80
Mean 960.3
Std Dev 926.3

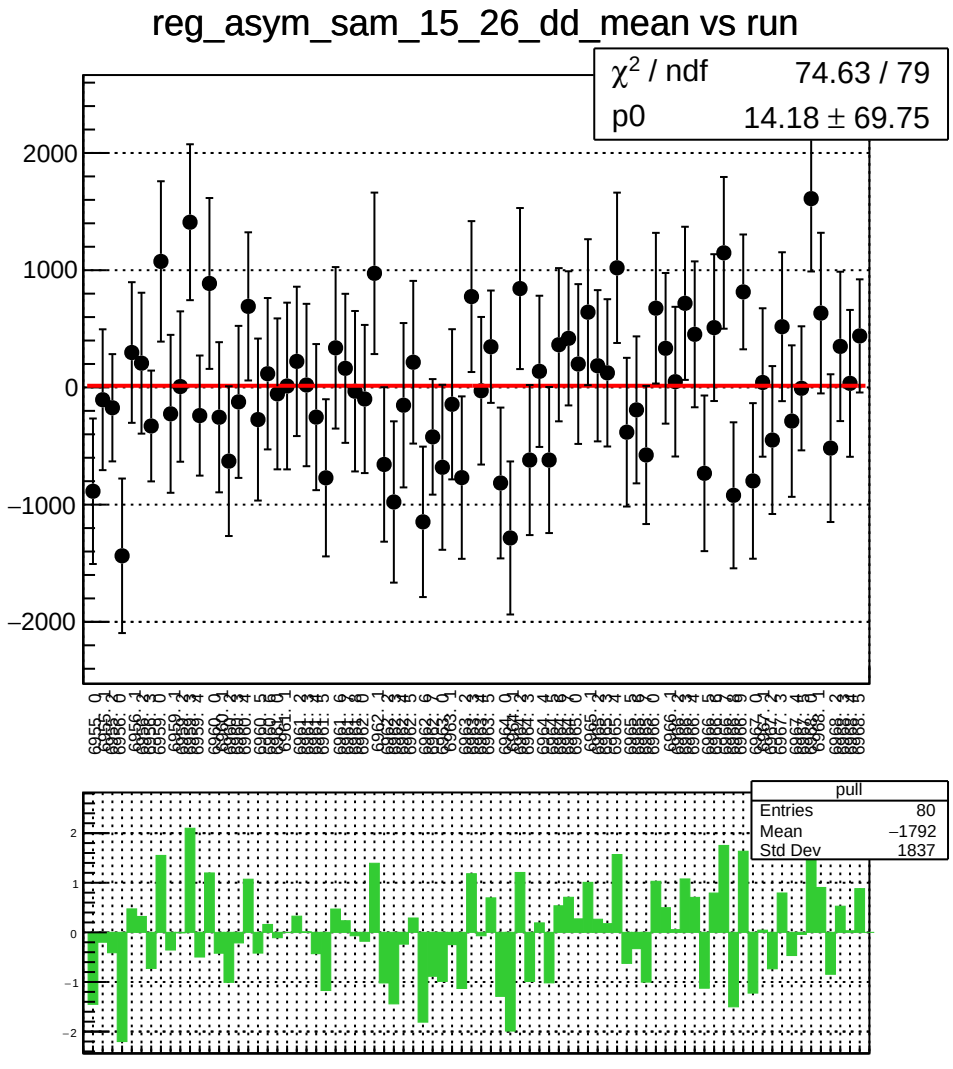

pull1D
Entries 80
Mean −0.002879
Std Dev 0.9067

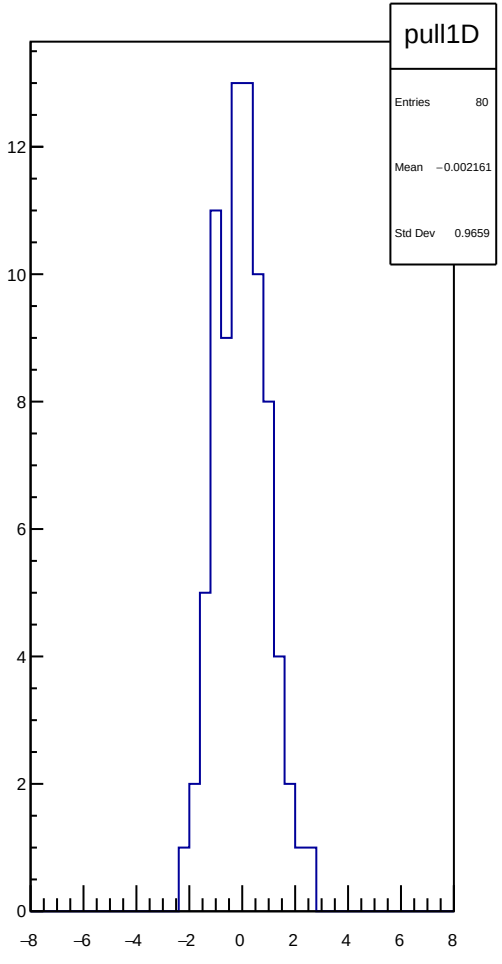

asym_sam_37_48_dd_correction_rms vs run
χ^2 / ndf 3063 / 79
p0 394 ± 0.3155
440
420
400
380
360

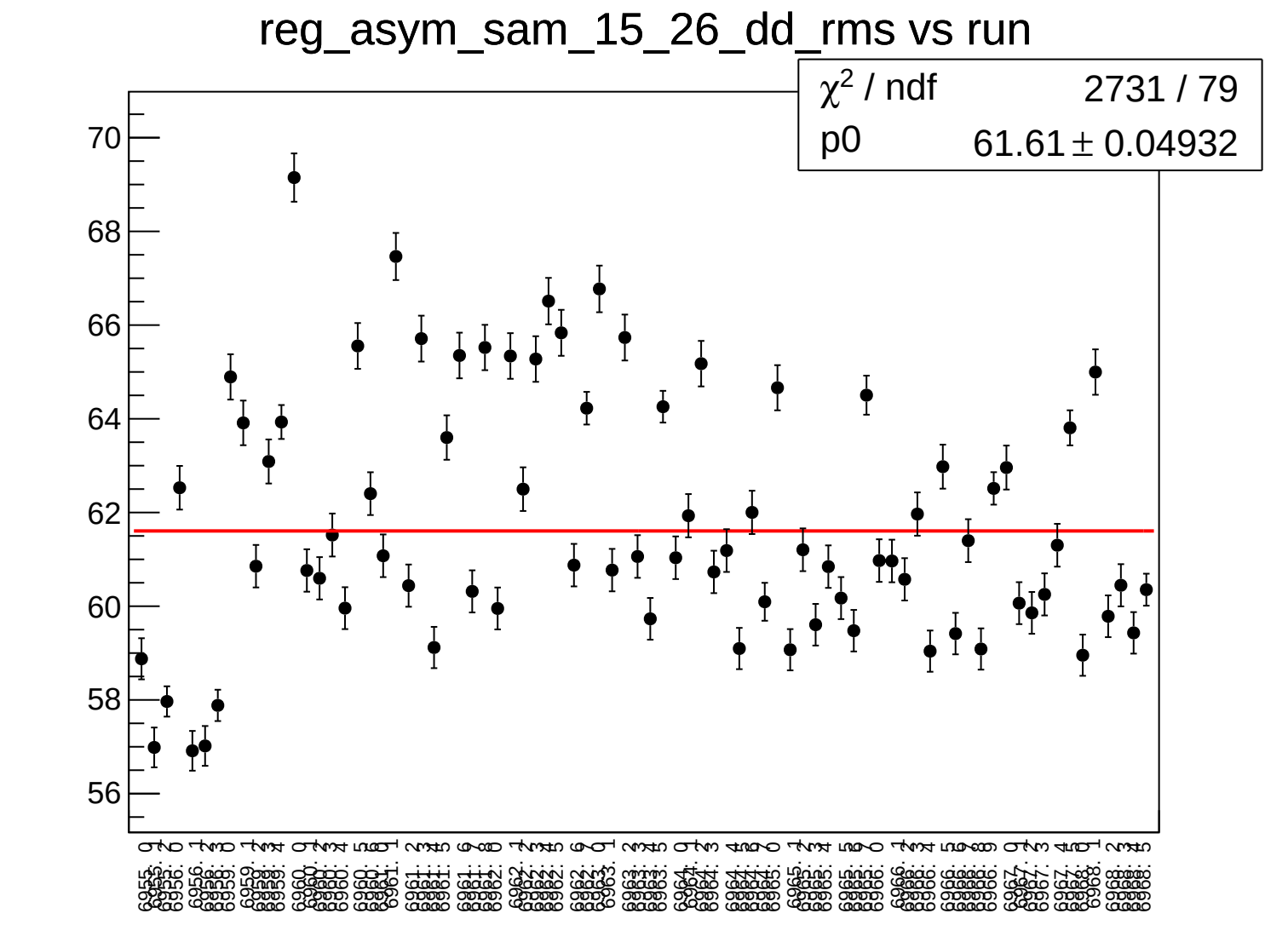

asym_sam_37_48_dd_mean vs run
χ² / ndf 70.91 / 79
p0 −481.1 ± 452.4
pull
Entries 80
Mean 505.2
Std Dev 472.8

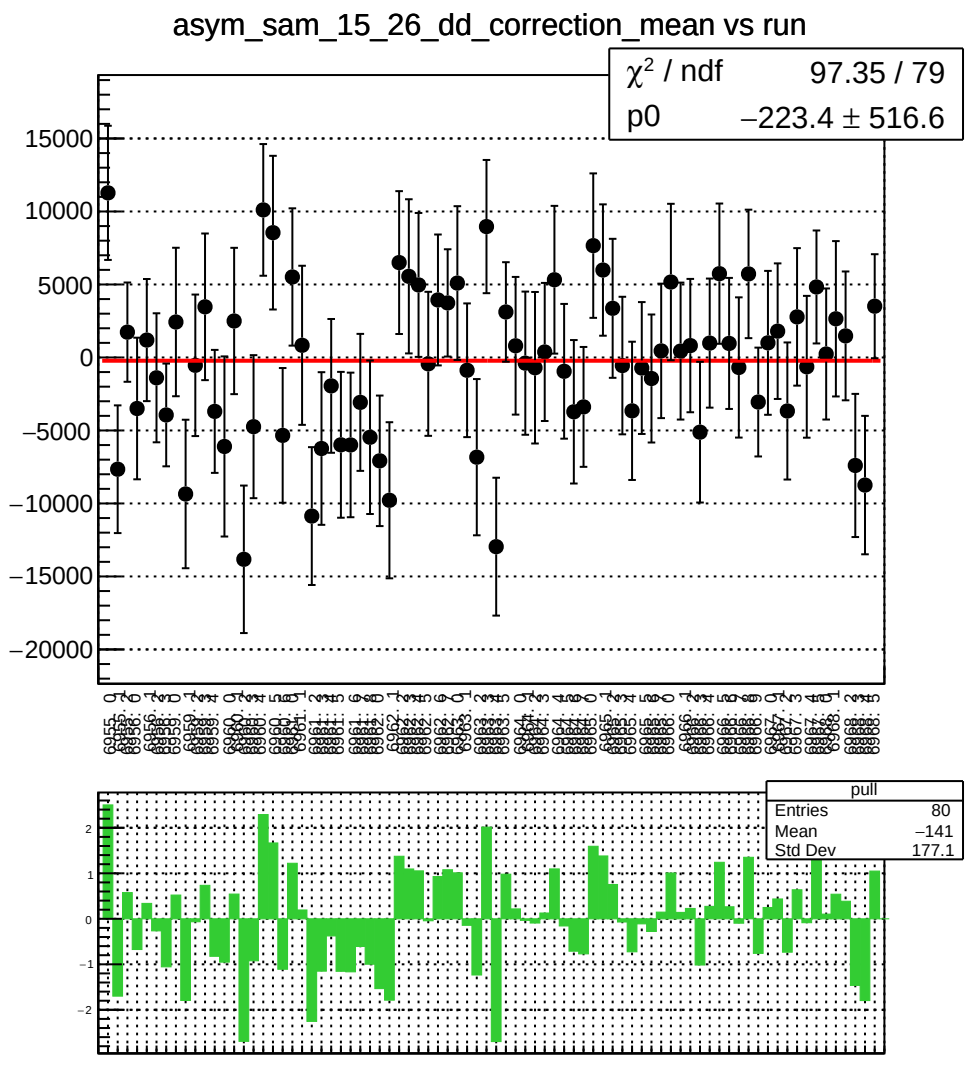

pull1D
Entries 80
Mean 0.004838
Std Dev 0.9415

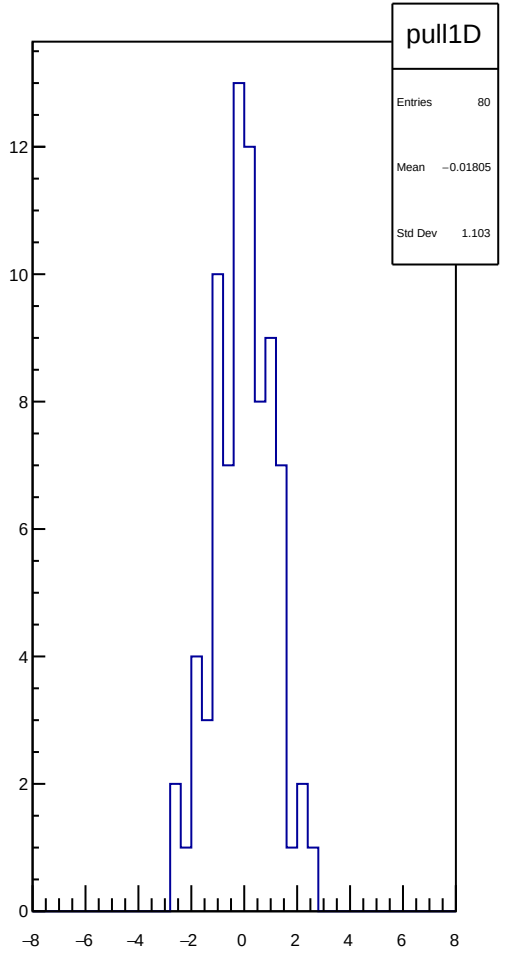

asym_sam_37_48_dd_rms vs run
χ² / ndf 2923 / 79
p0 399.6 ± 0.3199
460
440
420
400
380
360

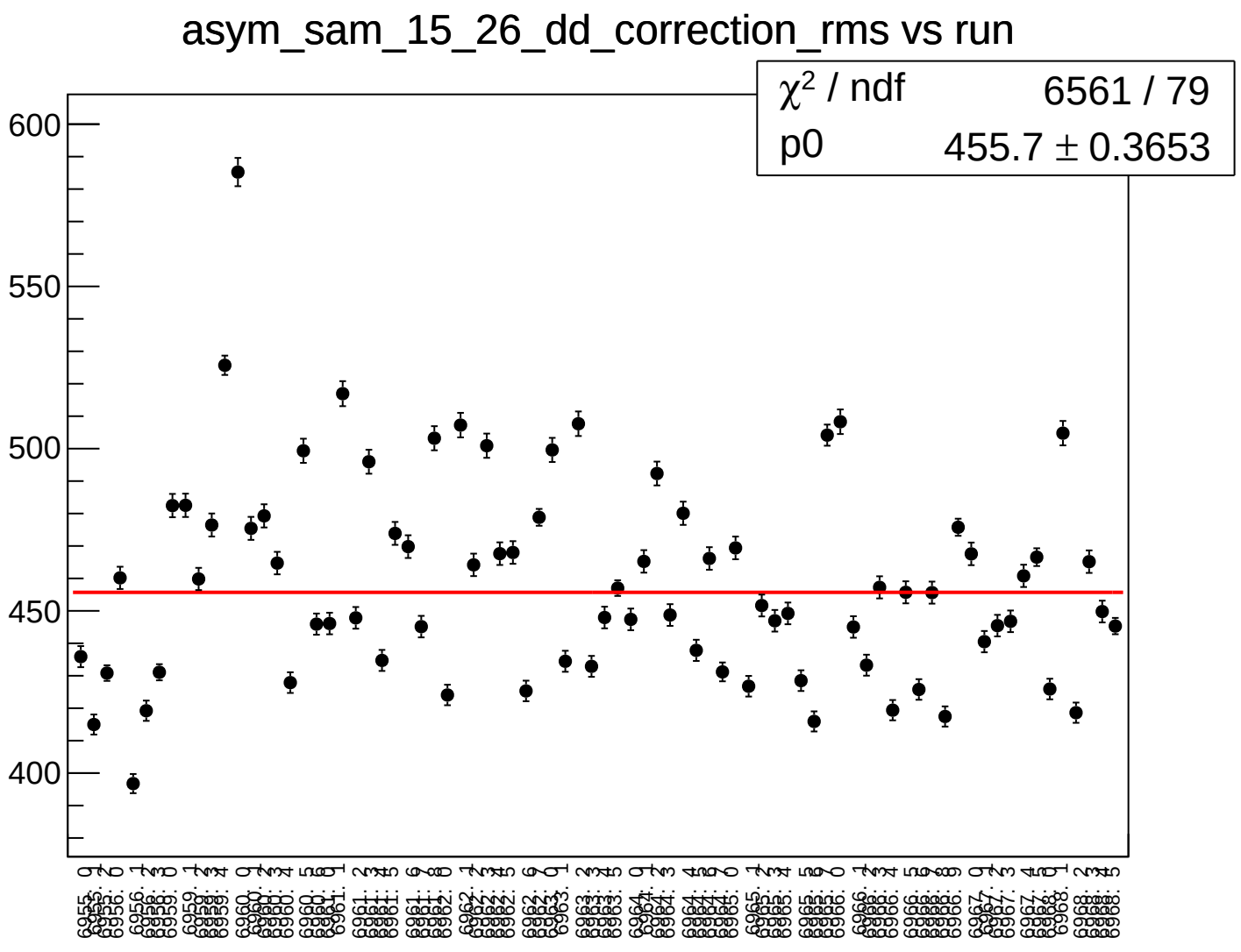

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 74.63 / 79
p0 14.18 ± 69.75
2000
1000
0
−1000
−2000
pull
Entries 80
Mean −1792
Std Dev 1837
2
1
0
−1
−2

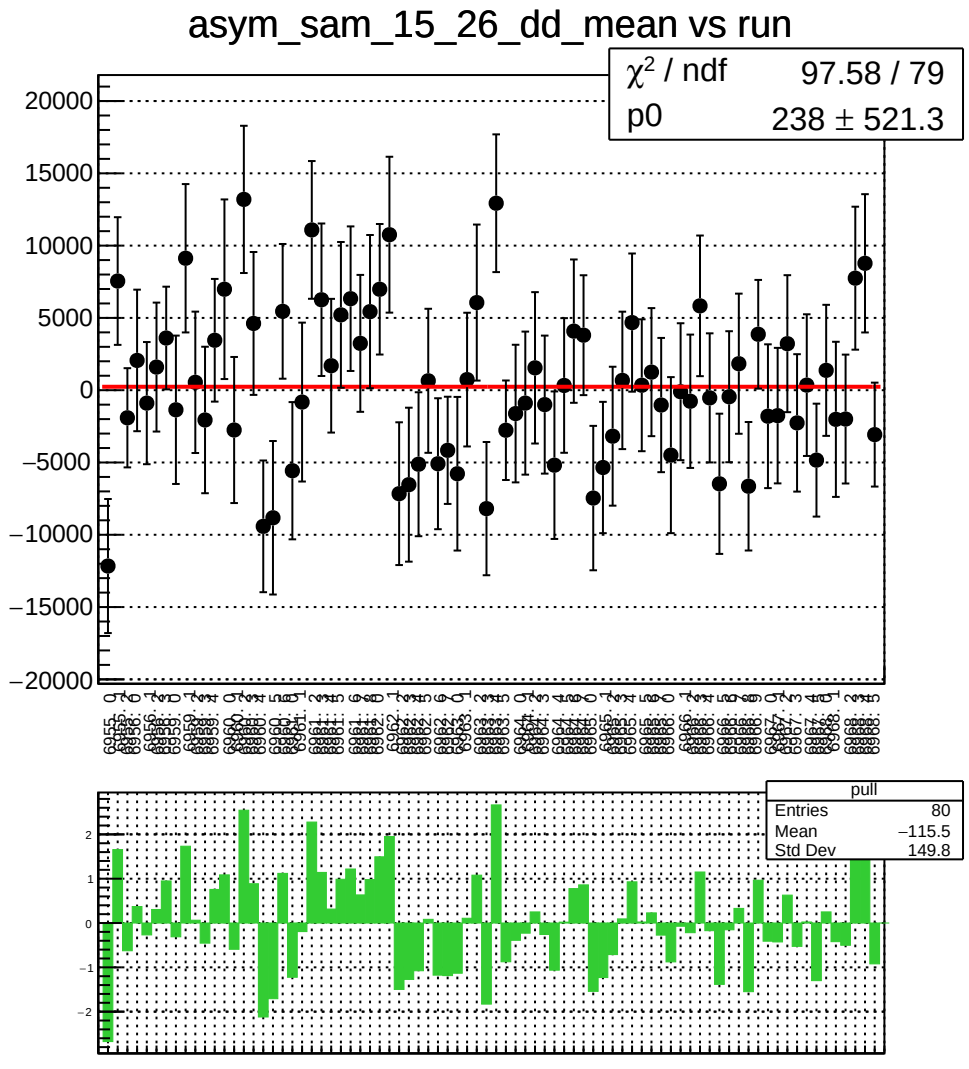

pull1D
Entries 80
Mean −0.002161
Std Dev 0.9659
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

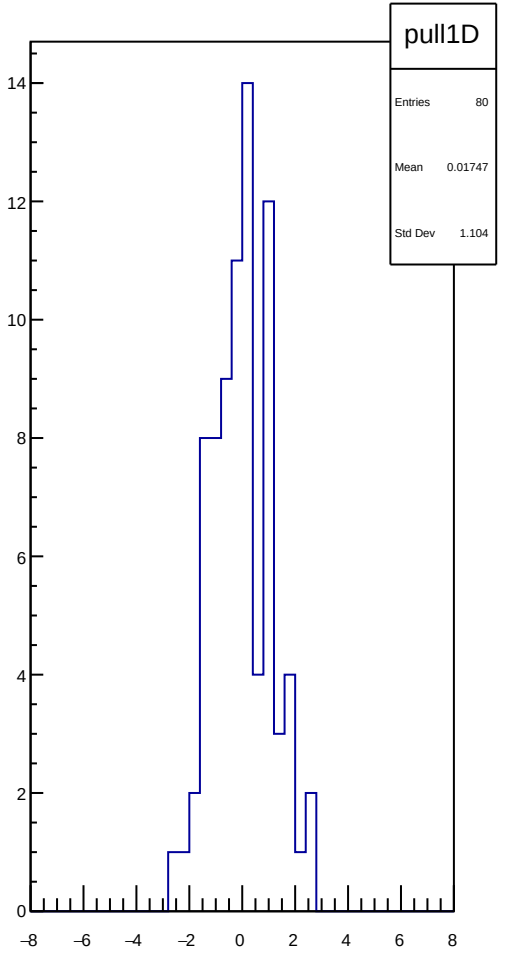

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2731 / 79
p0 61.61 ± 0.04932
70
68
66
64
62
60
58
56

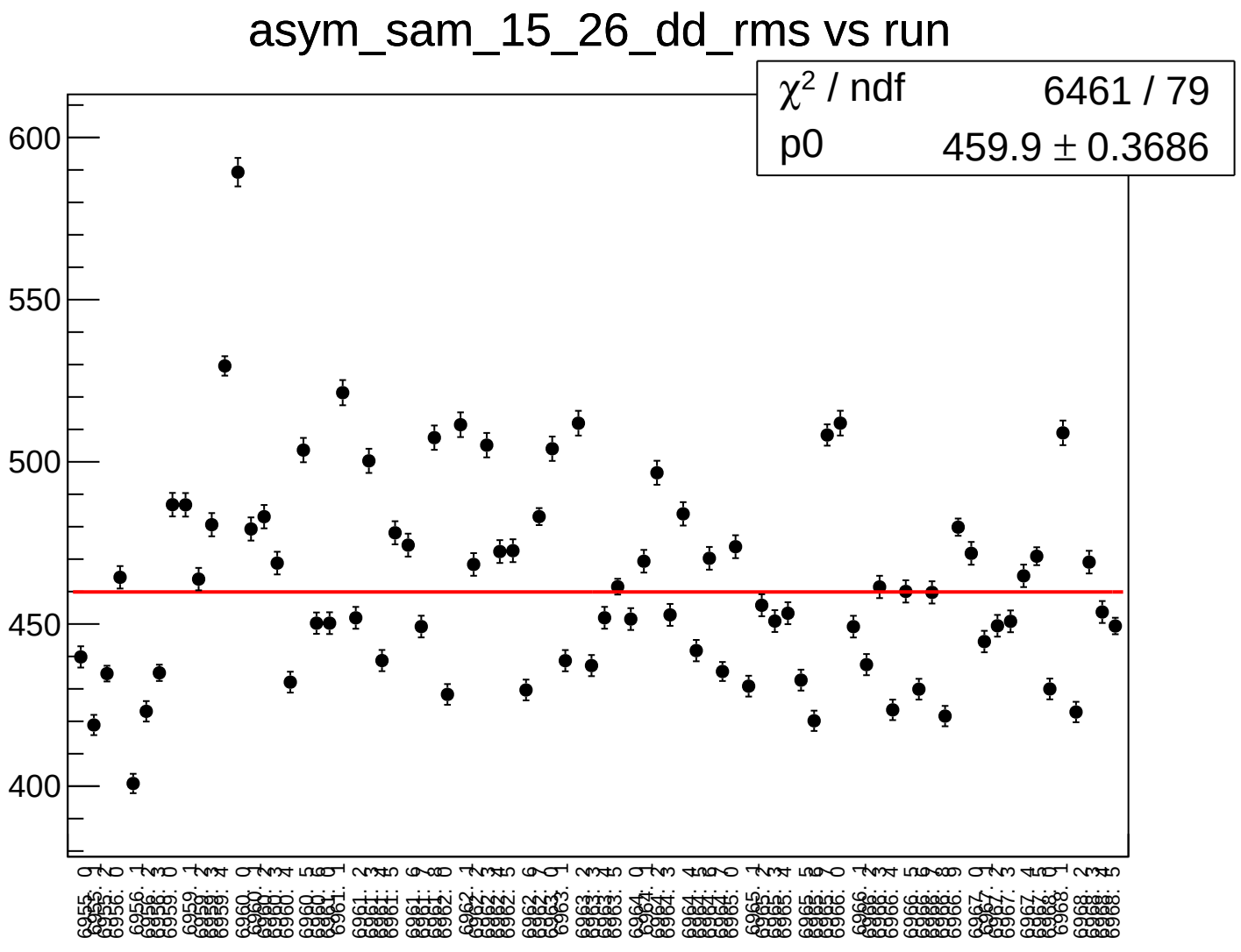

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 97.35 / 79
p0 −223.4 ± 516.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 80
Mean −141
Std Dev 177.1
2
1
0
−1
−2

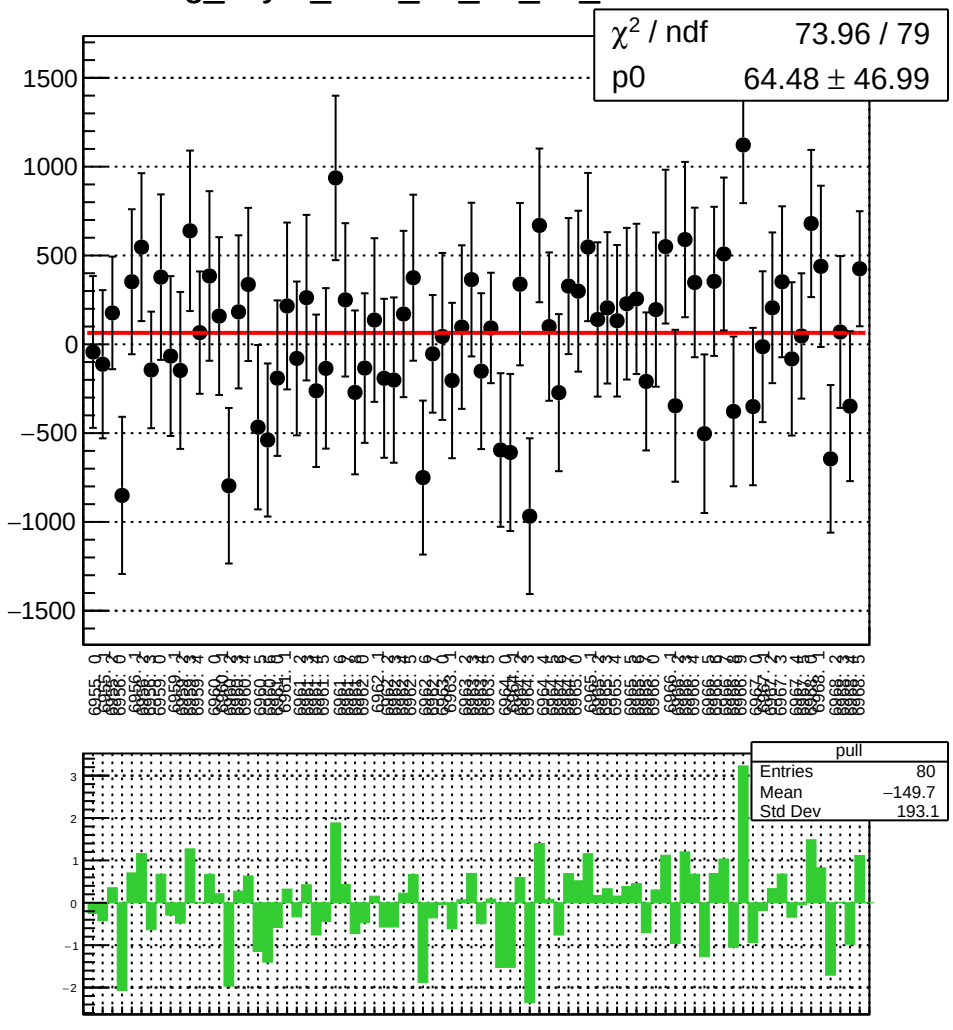

pull1D
Entries 80
Mean −0.01805
Std Dev 1.103
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

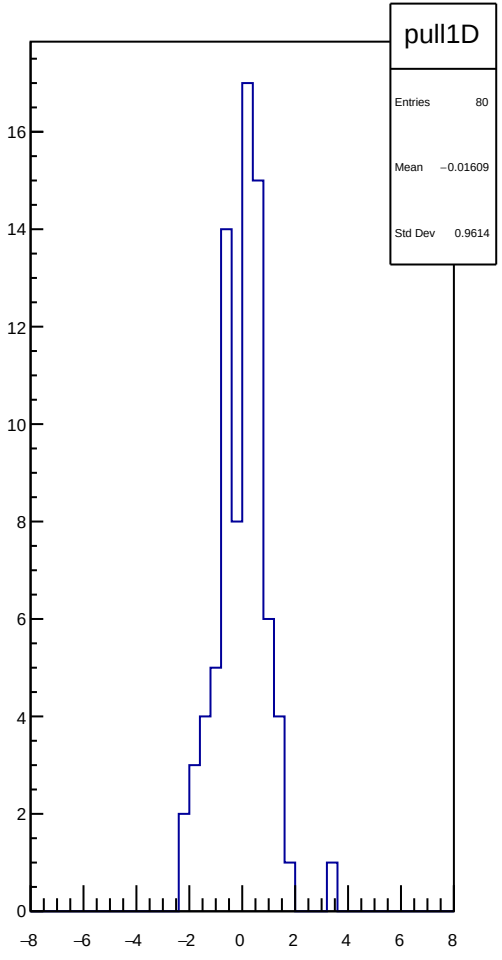

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 6561 / 79
p0 455.7 ± 0.3653
600
550
500
450
400

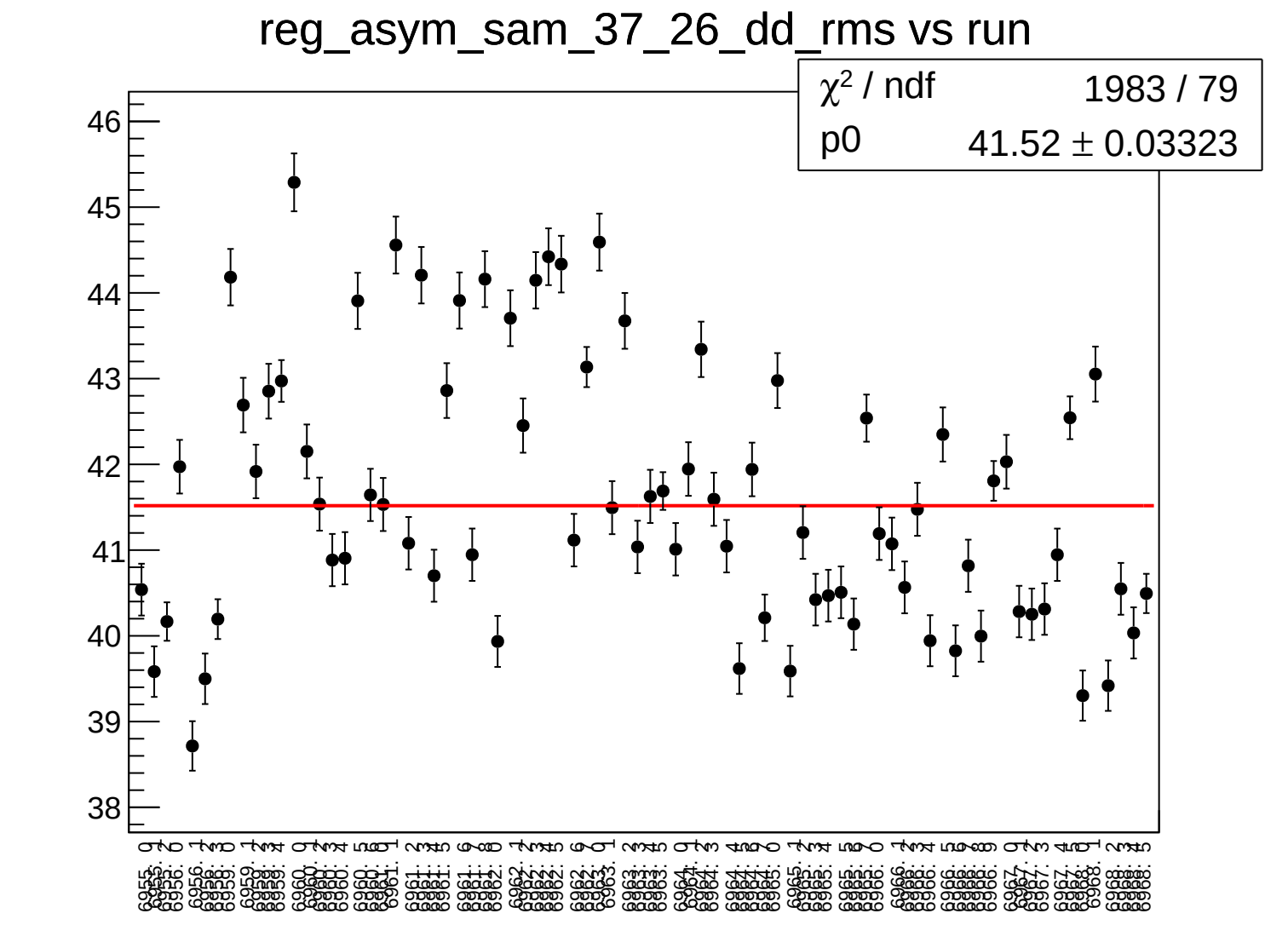

asym_sam_15_26_dd_mean vs run
χ² / ndf 97.58 / 79
p0 238 ± 521.3
pull
Entries 80
Mean −115.5
Std Dev 149.8

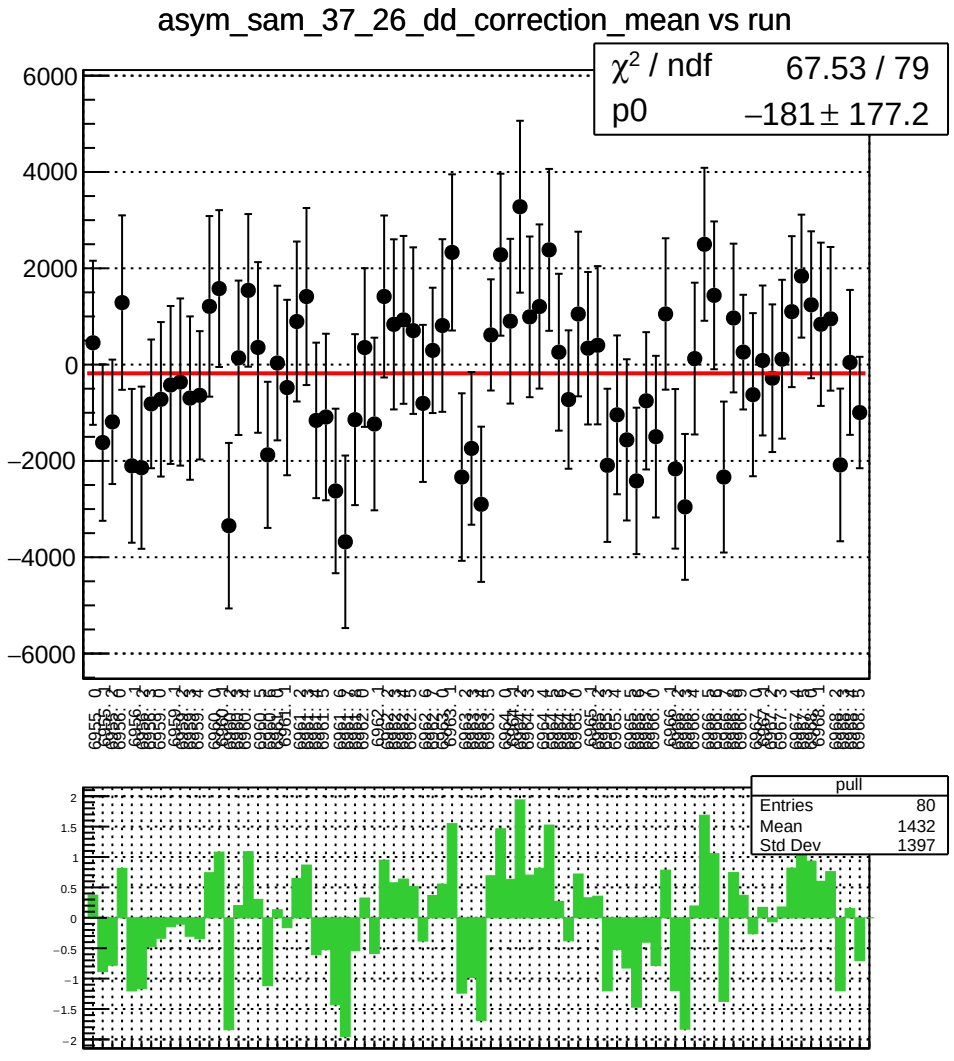

pull1D
Entries 80
Mean 0.01747
Std Dev 1.104

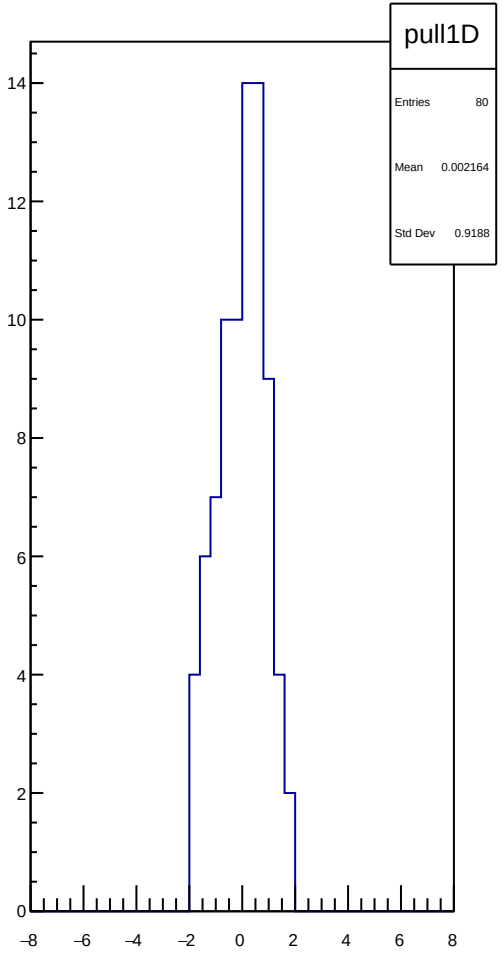

asym_sam_15_26_dd_rms vs run
χ² / ndf 6461 / 79
p0 459.9 ± 0.3686
600
550
500
450
400

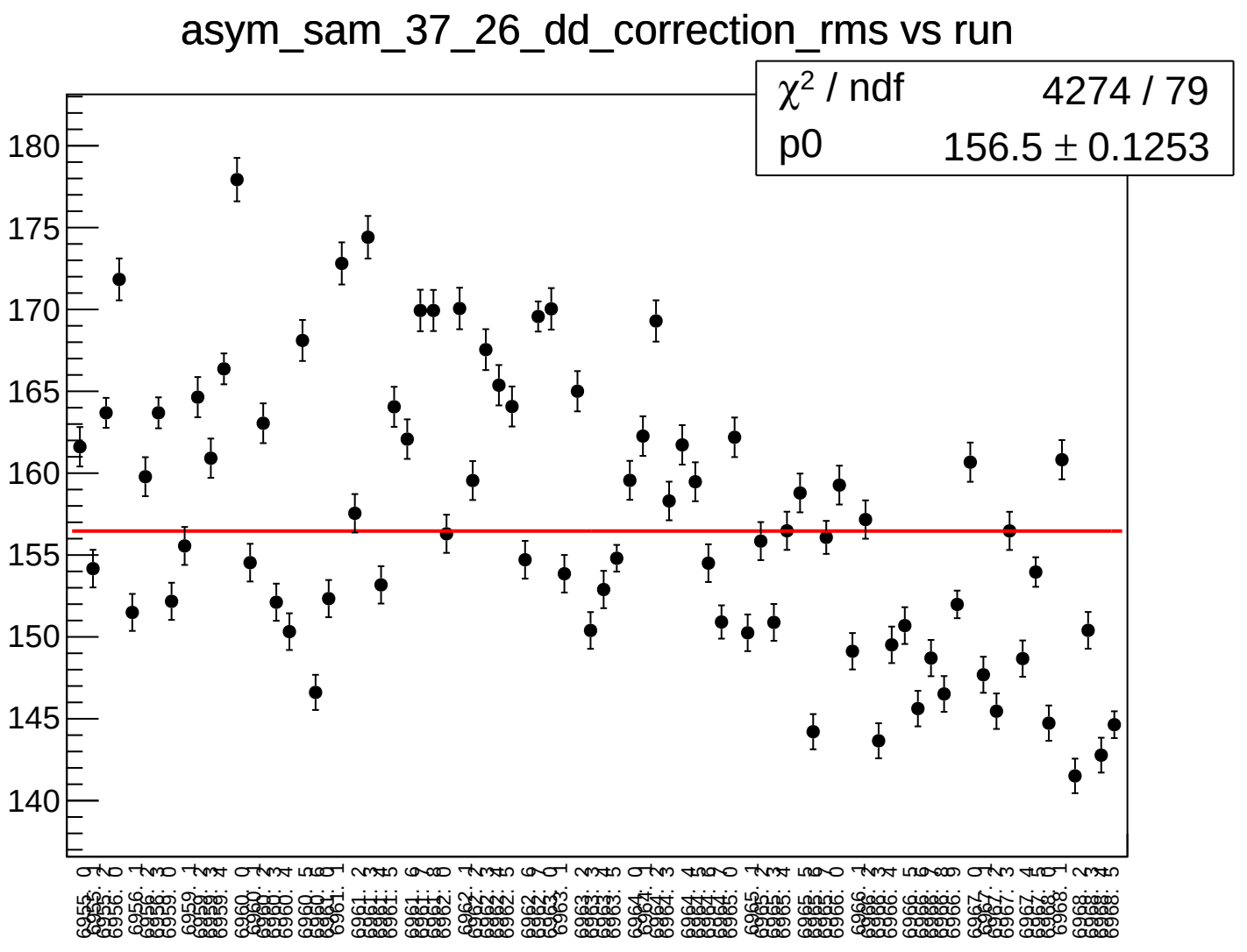

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 73.96 / 79
p0 64.48 ± 46.99
pull
Entries 80
Mean −149.7
Std Dev 193.1

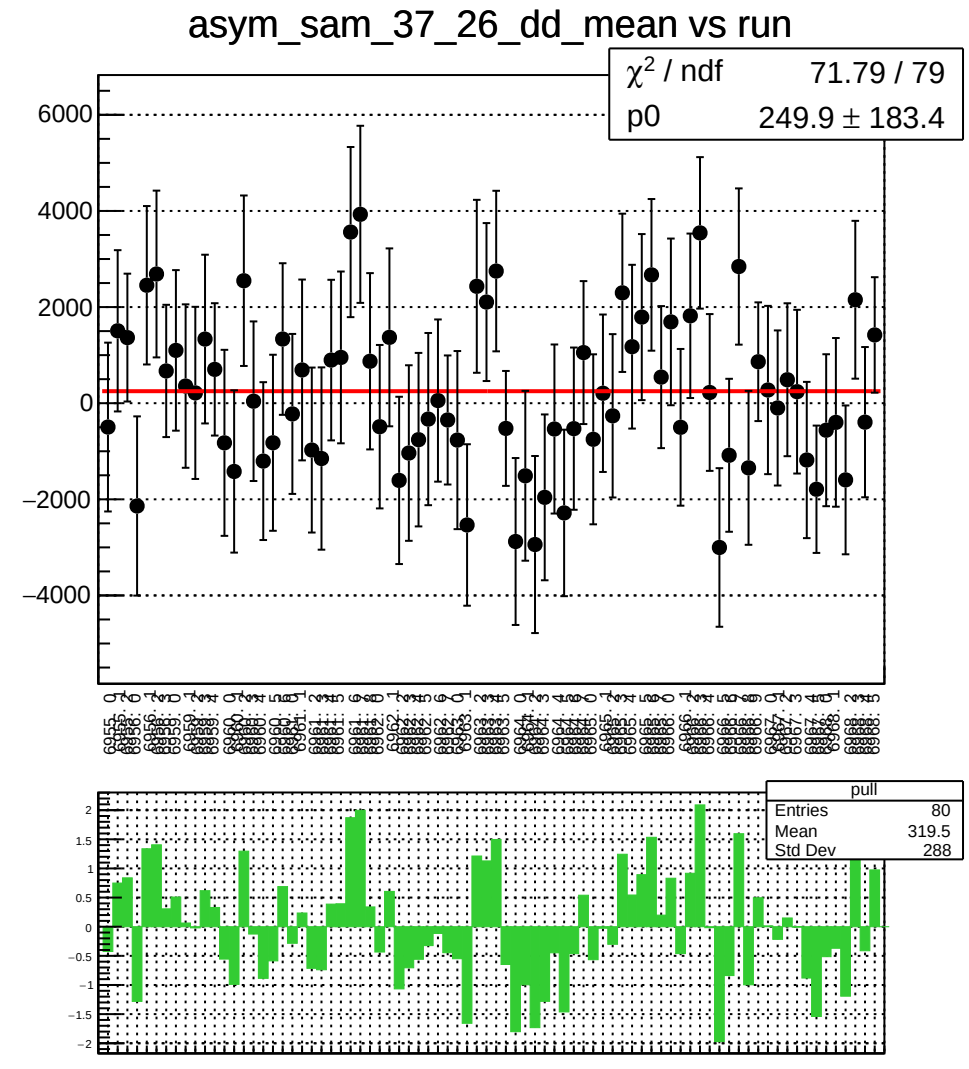

pull1D
Entries 80
Mean −0.01609
Std Dev 0.9614

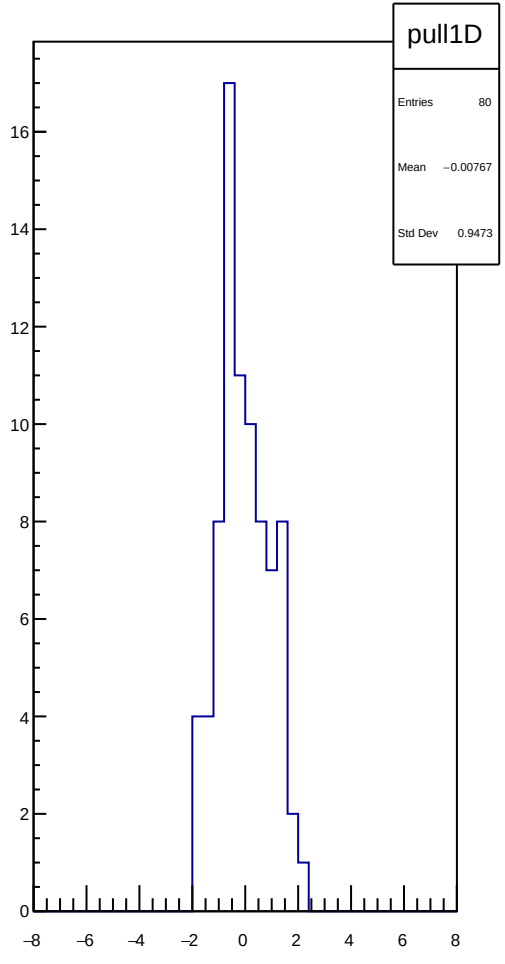

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1983 / 79
p0 41.52 ± 0.03323
46
45
44
43
42
41
40
39
38

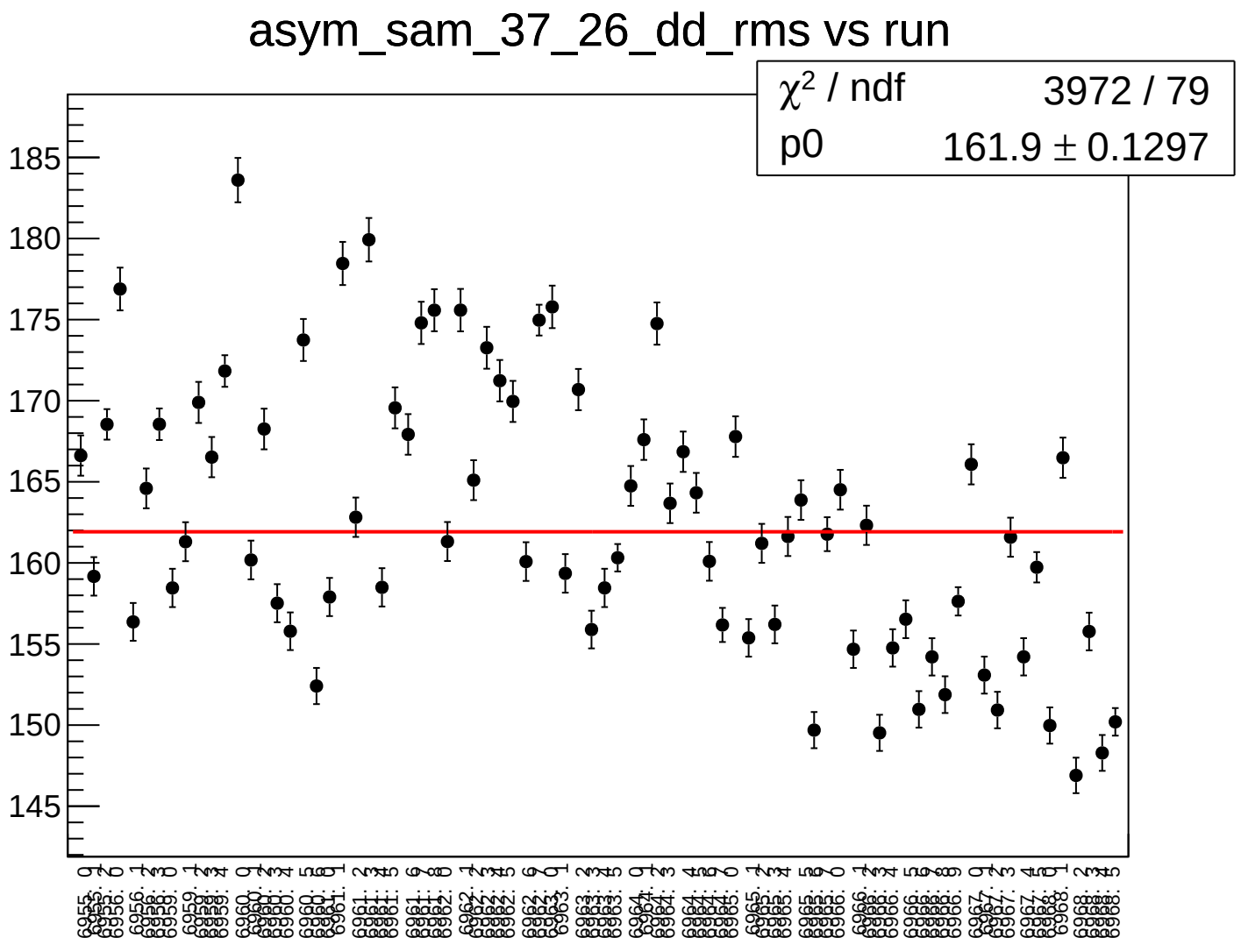

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 67.53 / 79
p0 −181 ± 177.2
pull
Entries 80
Mean 1432
Std Dev 1397

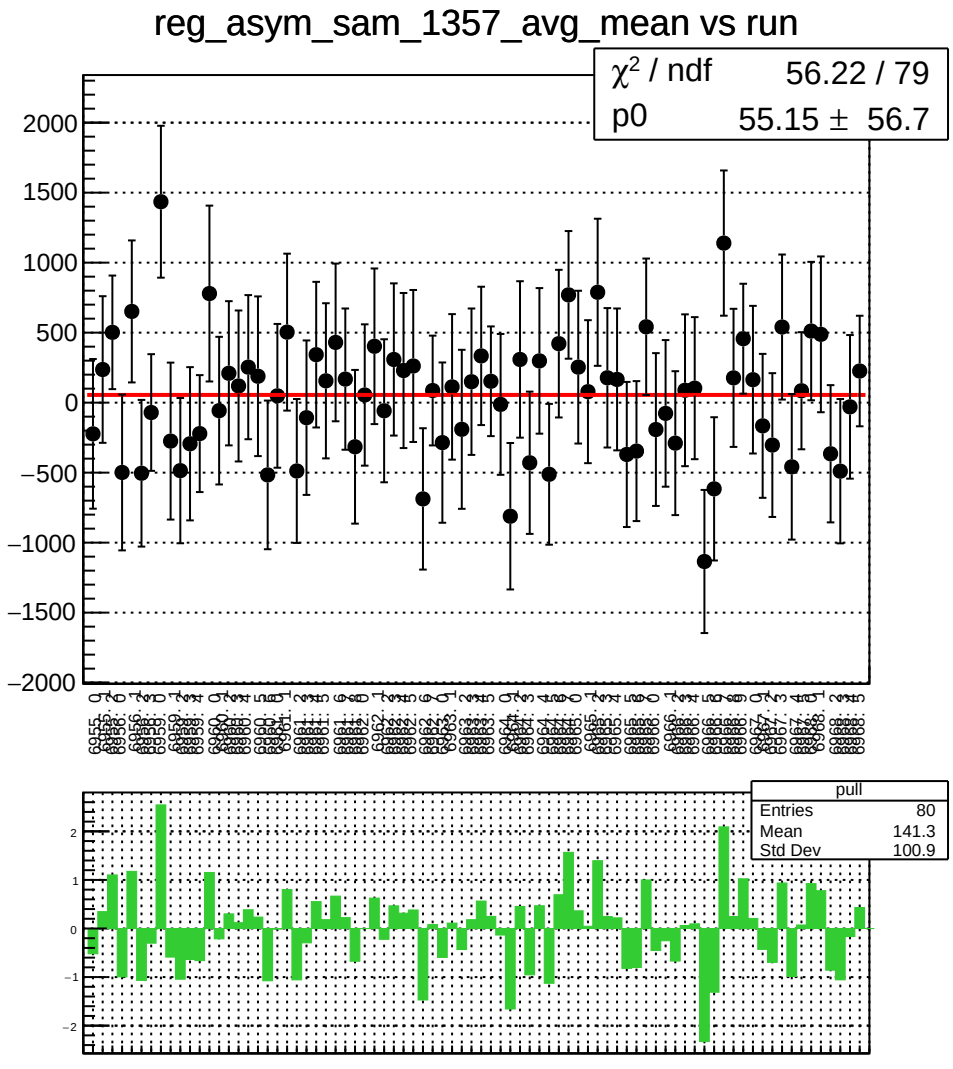

pull1D
Entries 80
Mean 0.002164
Std Dev 0.9188

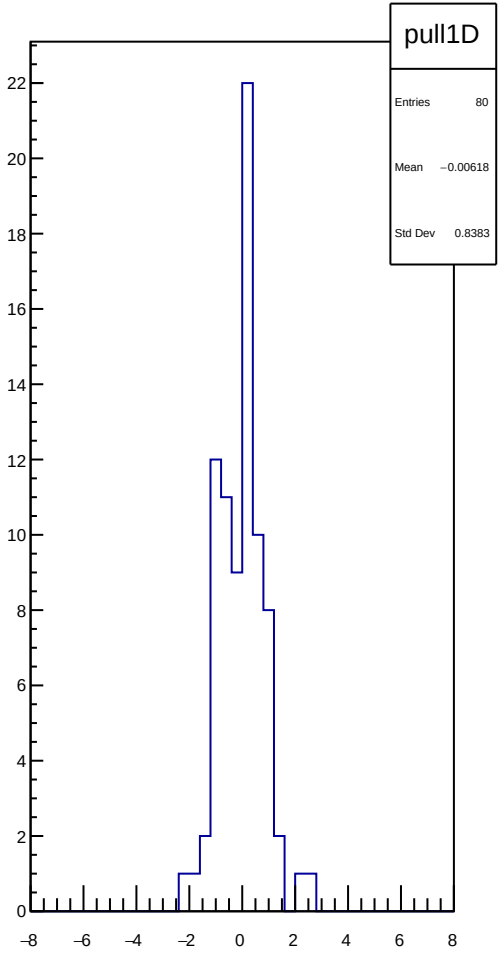

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 4274 / 79
p0 156.5 ± 0.1253
180
175
170
165
160
155
150
145
140

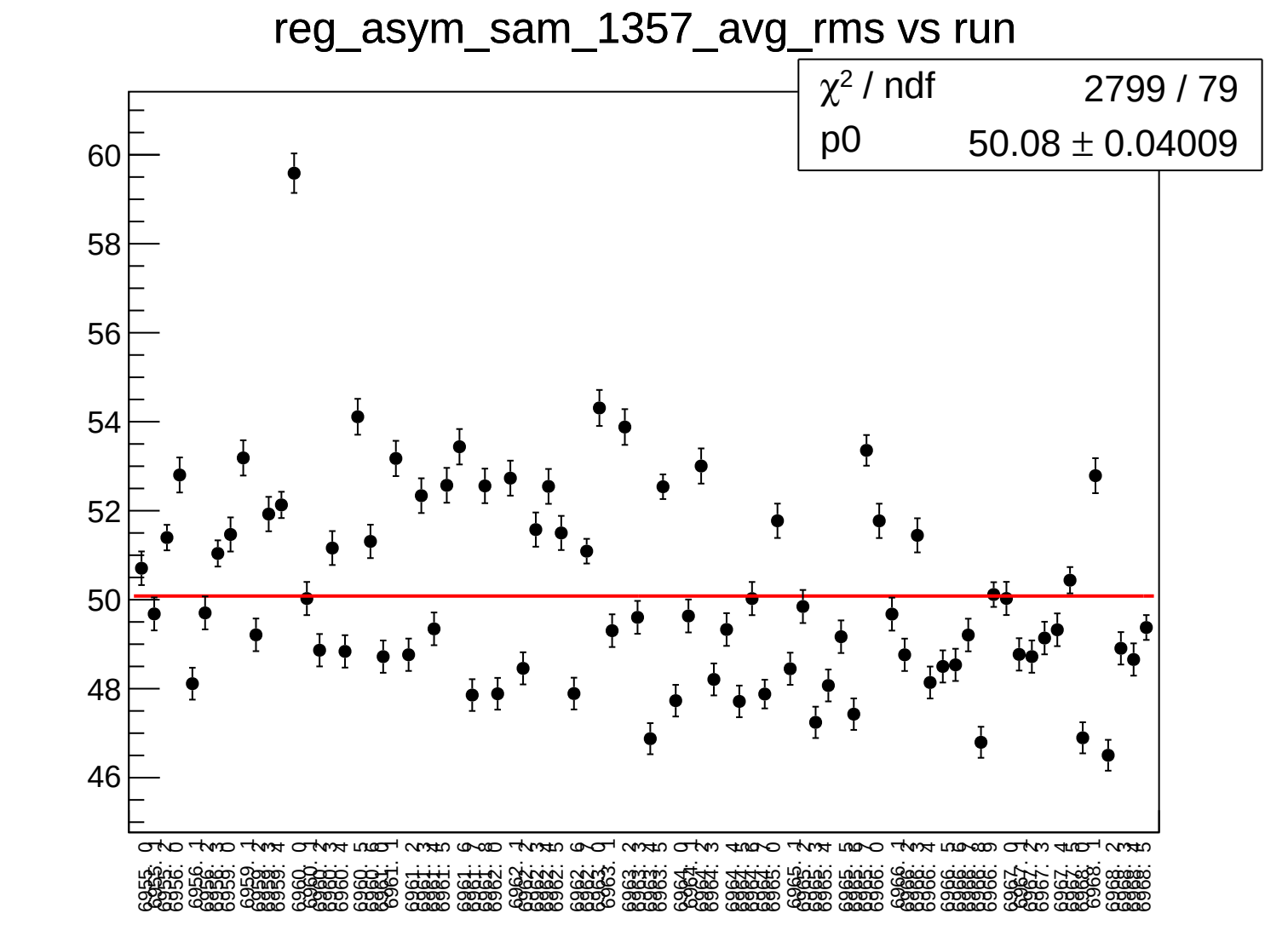

asym_sam_37_26_dd_mean vs run
χ² / ndf 71.79 / 79
p0 249.9 ± 183.4
pull
Entries 80
Mean 319.5
Std Dev 288

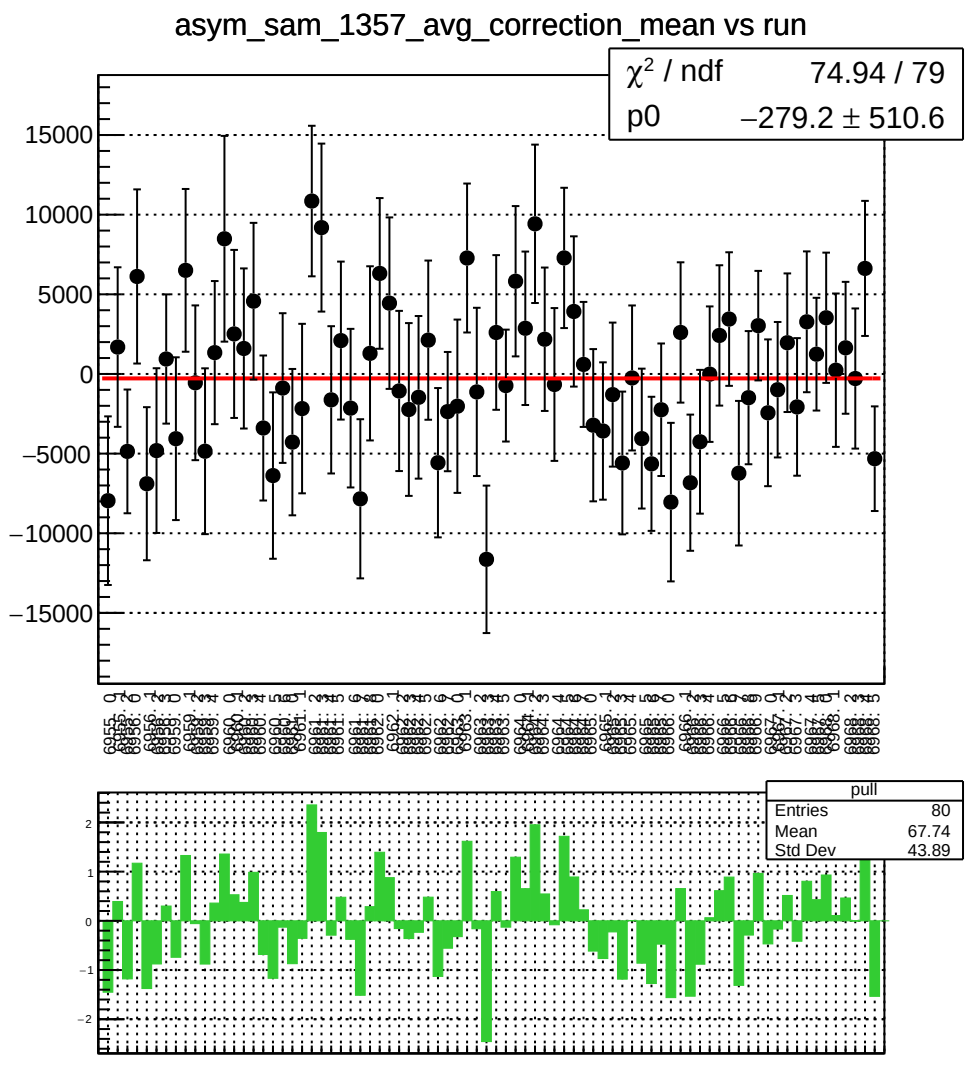

pull1D
Entries 80
Mean −0.00767
Std Dev 0.9473

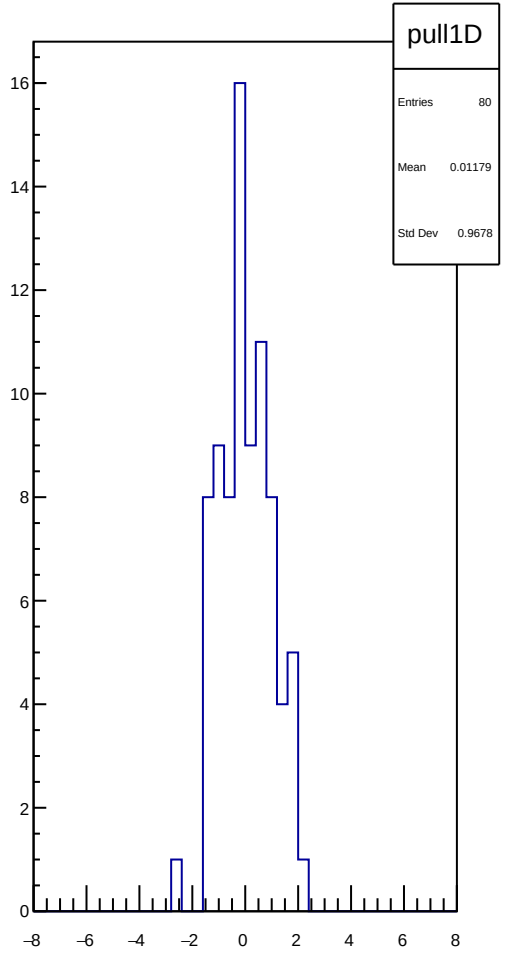

asym_sam_37_26_dd_rms vs run
χ² / ndf 3972 / 79
p0 161.9 ± 0.1297
185
180
175
170
165
160
155
150
145

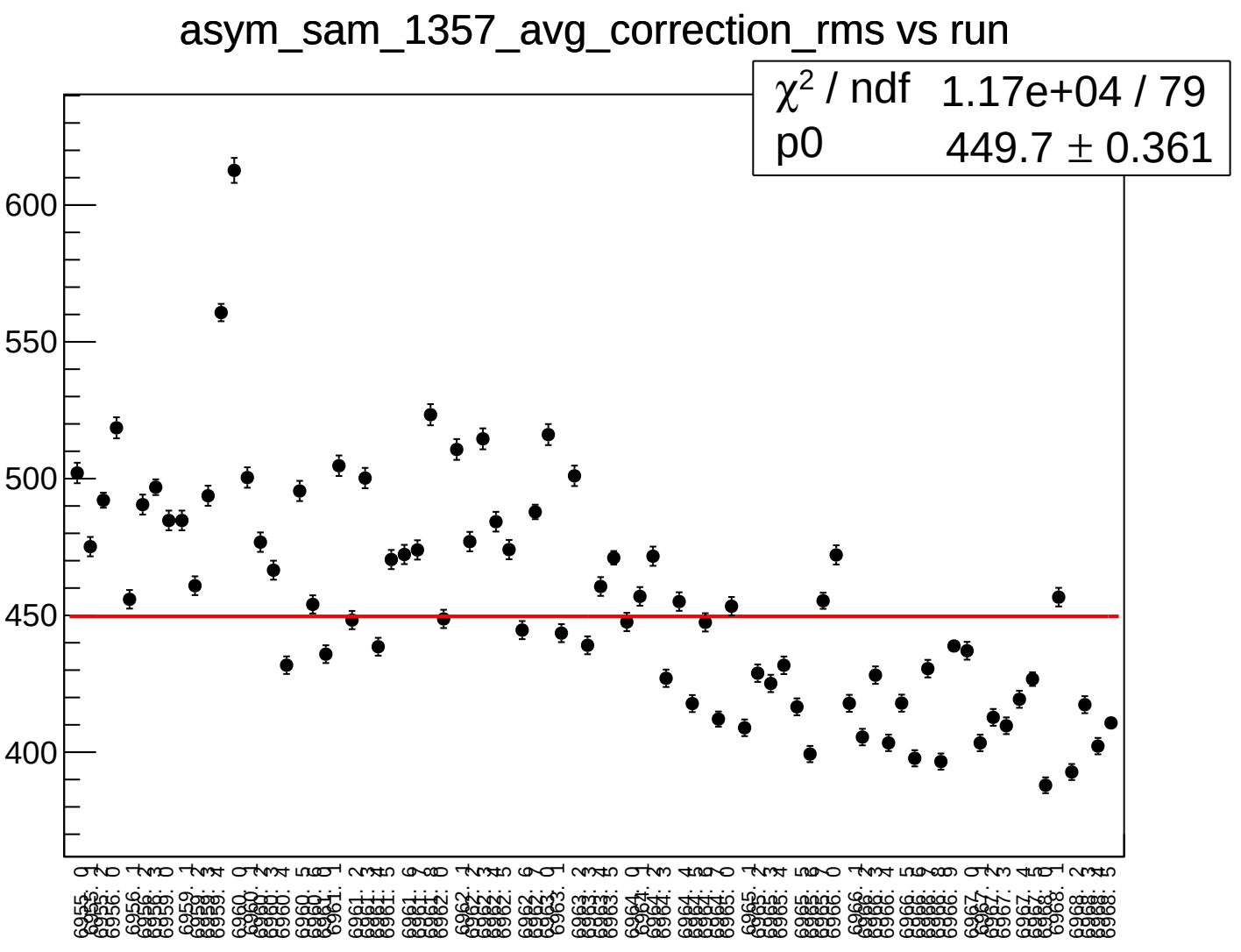

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 56.22 / 79
p0 55.15 ± 56.7
pull
Entries 80
Mean 141.3
Std Dev 100.9

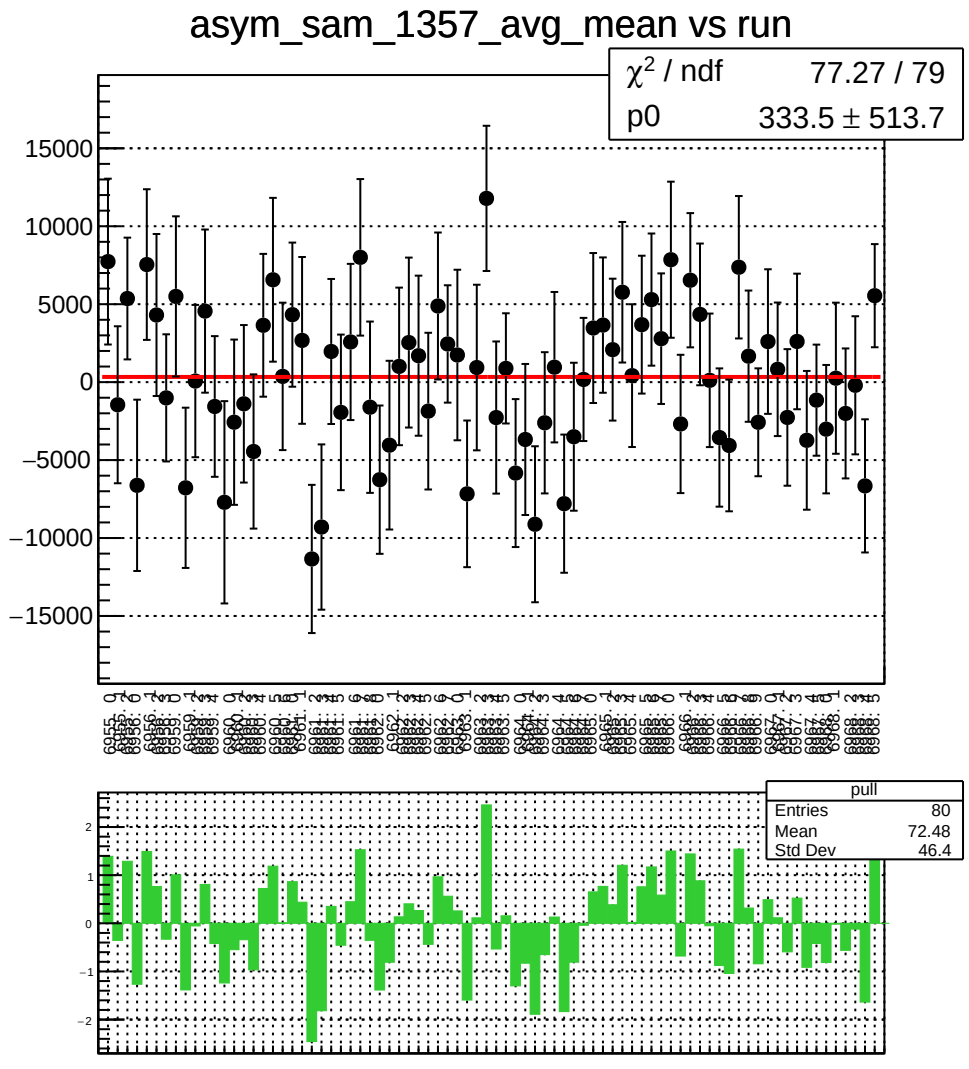

pull1D
Entries 80
Mean −0.00618
Std Dev 0.8383

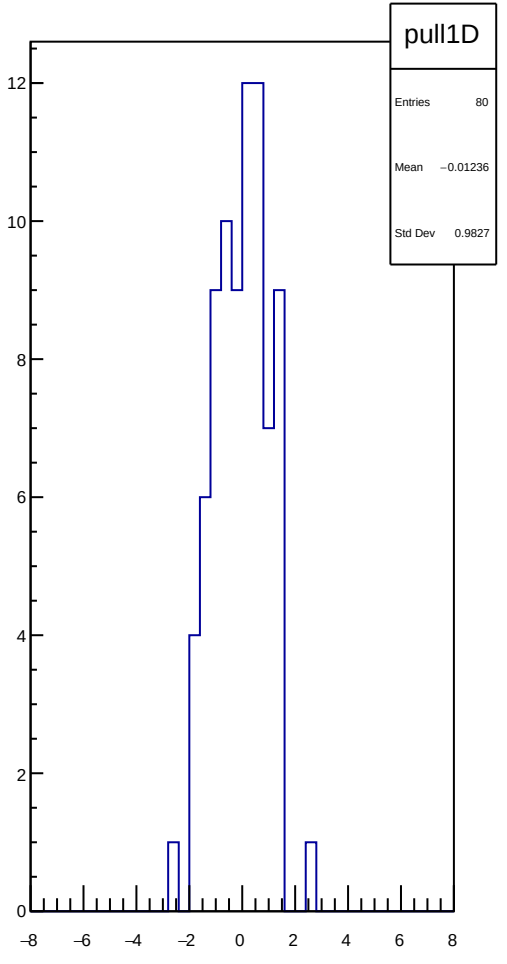

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 2799 / 79
p0 50.08 ± 0.04009
60
58
56
54
52
50
48
46

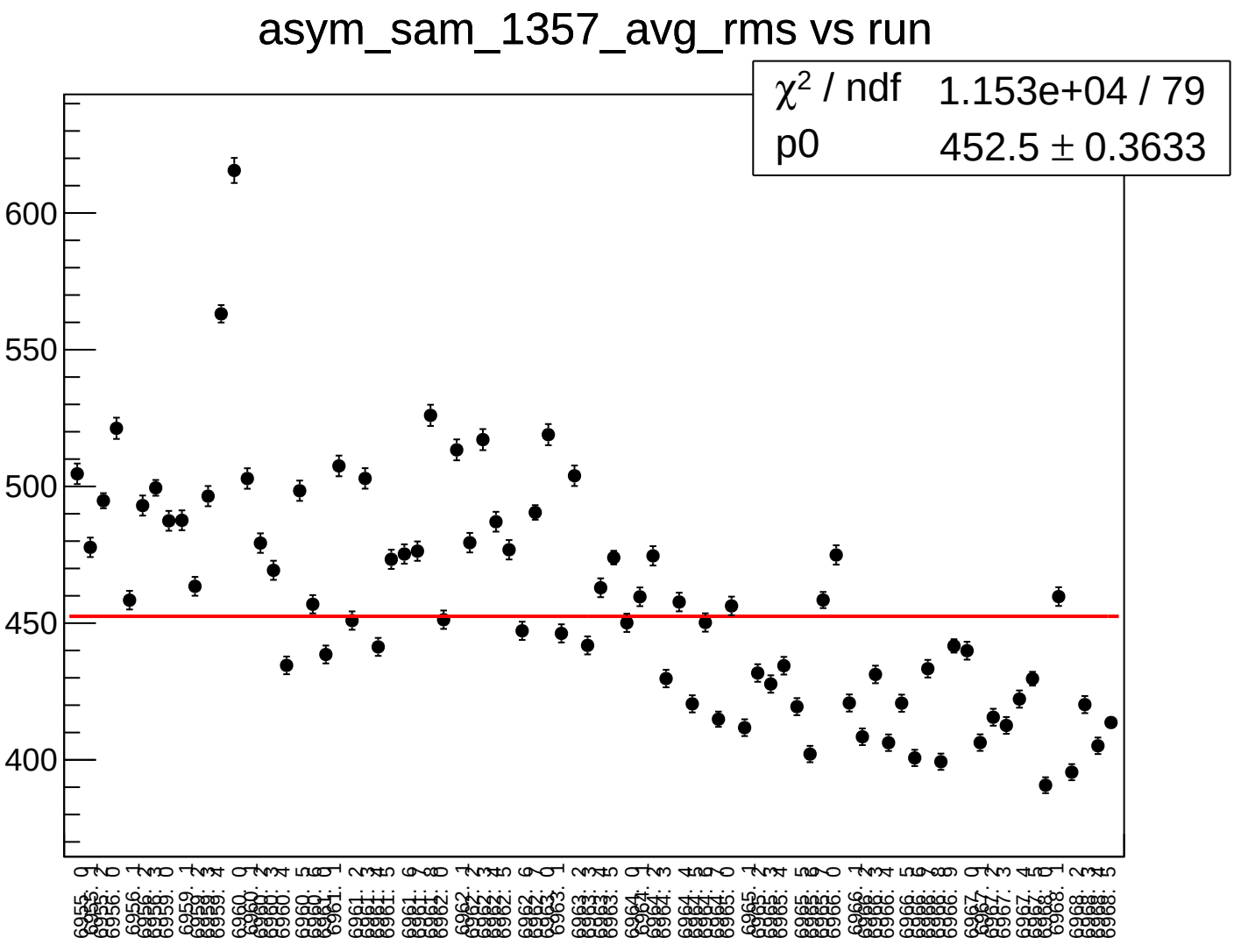

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 74.94 / 79
p0 −279.2 ± 510.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 80
Mean 67.74
Std Dev 43.89
2
1
0
−1
−2

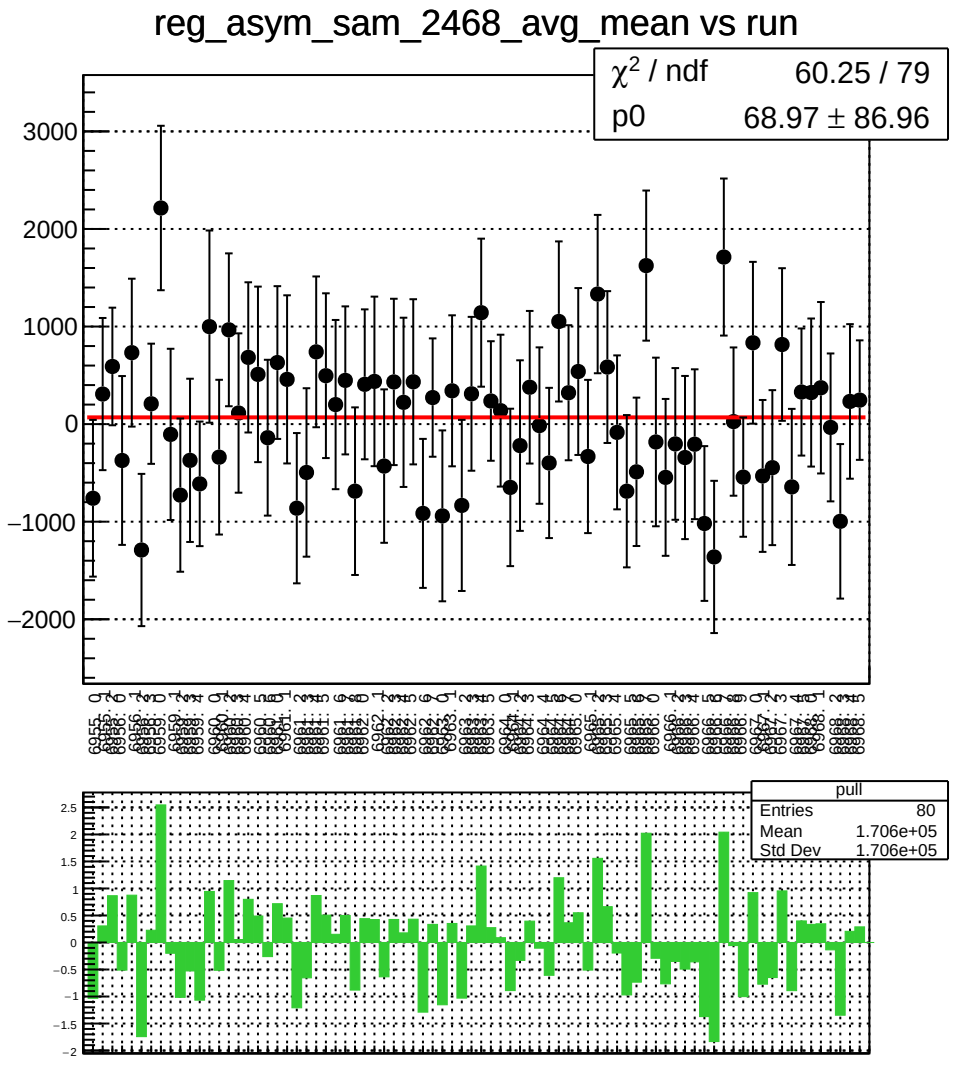

pull1D
Entries 80
Mean 0.01179
Std Dev 0.9678
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

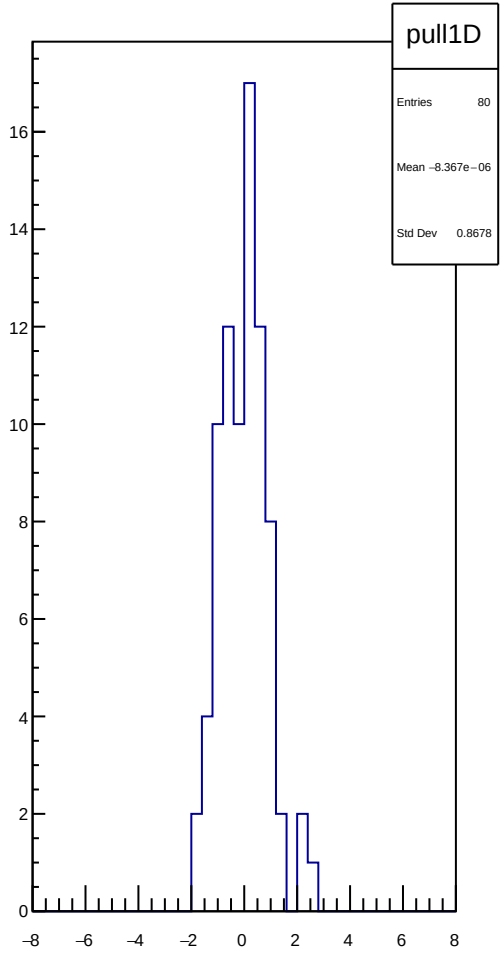

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 1.17e+04 / 79
p0 449.7 ± 0.361
600
550
500
450
400

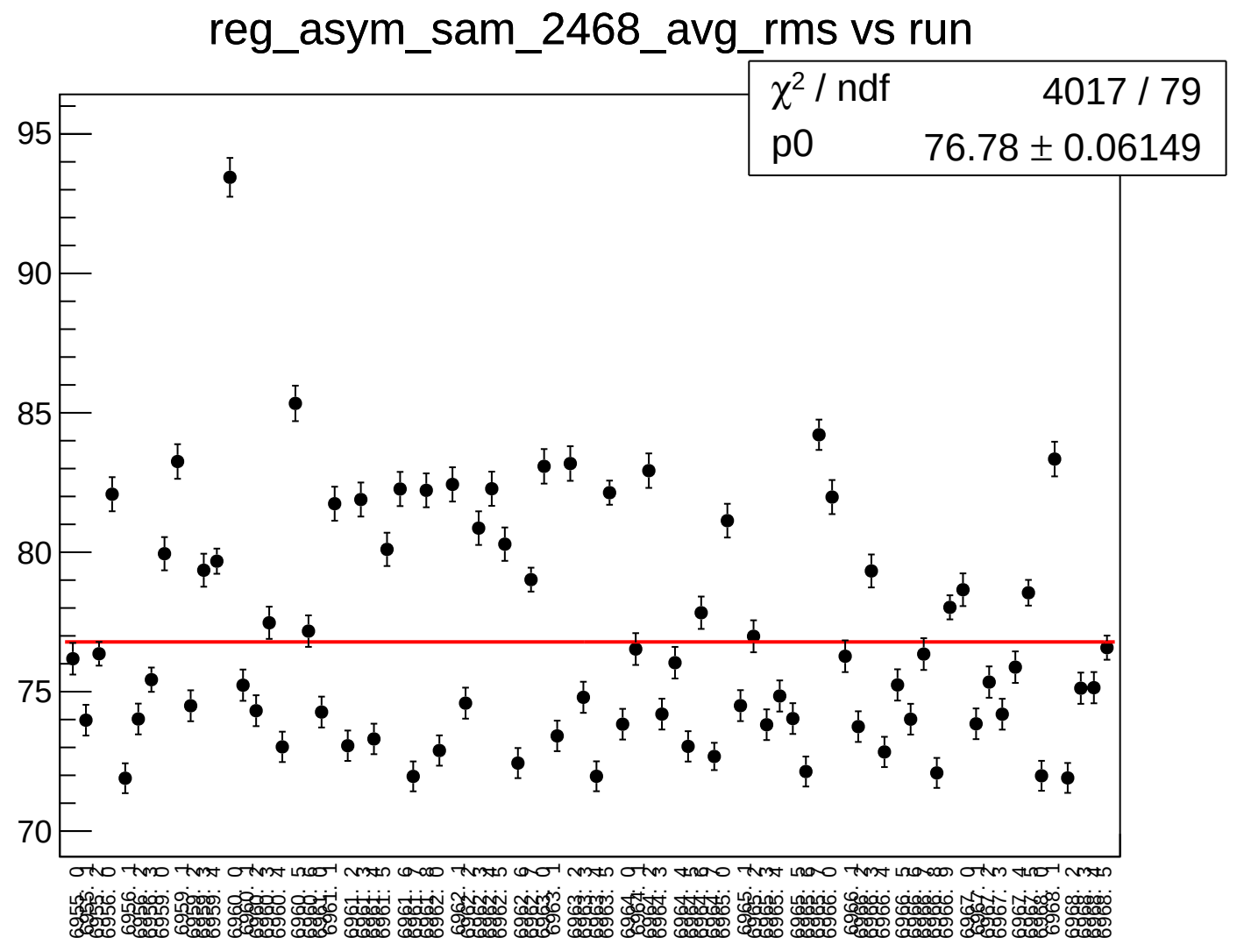

asym_sam_1357_avg_mean vs run
χ² / ndf 77.27 / 79
p0 333.5 ± 513.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 80
Mean 72.48
Std Dev 46.4
2
1
0
−1
−2

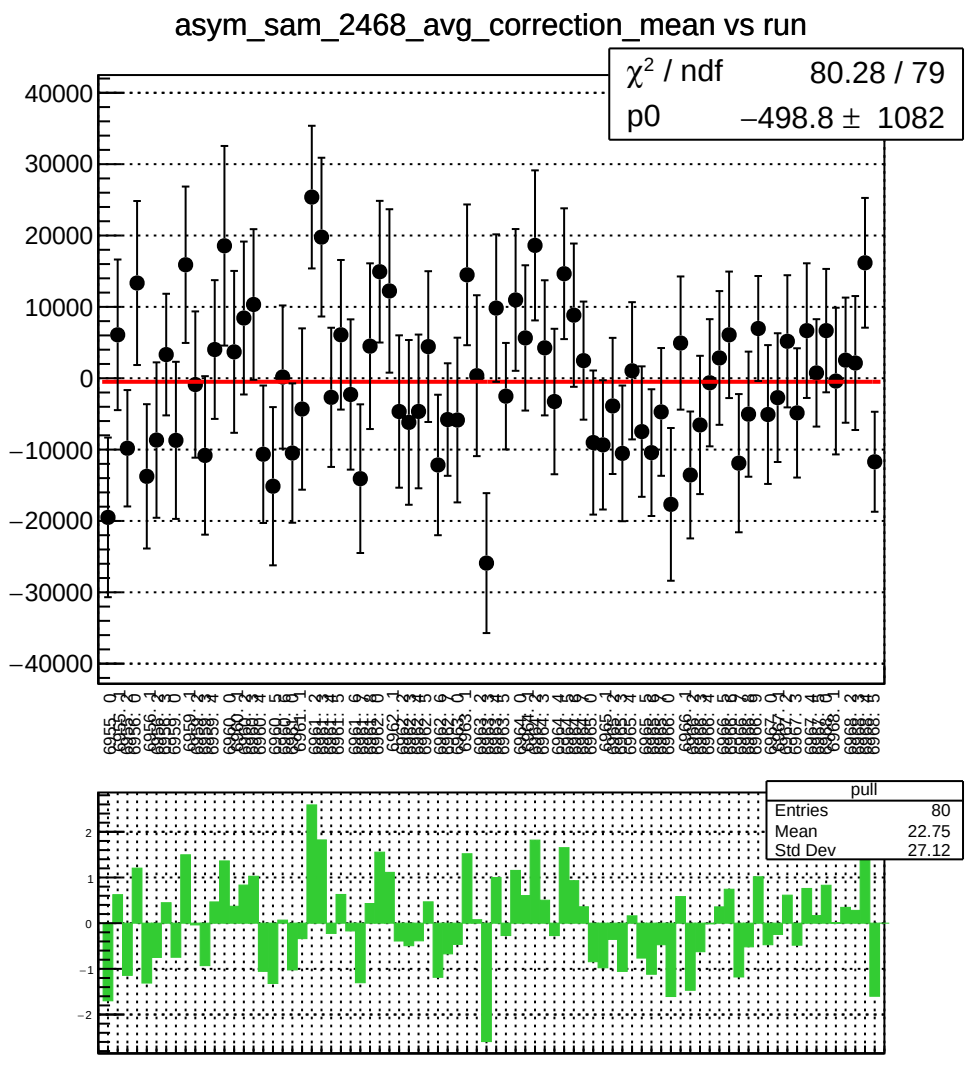

pull1D
Entries 80
Mean −0.01236
Std Dev 0.9827
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

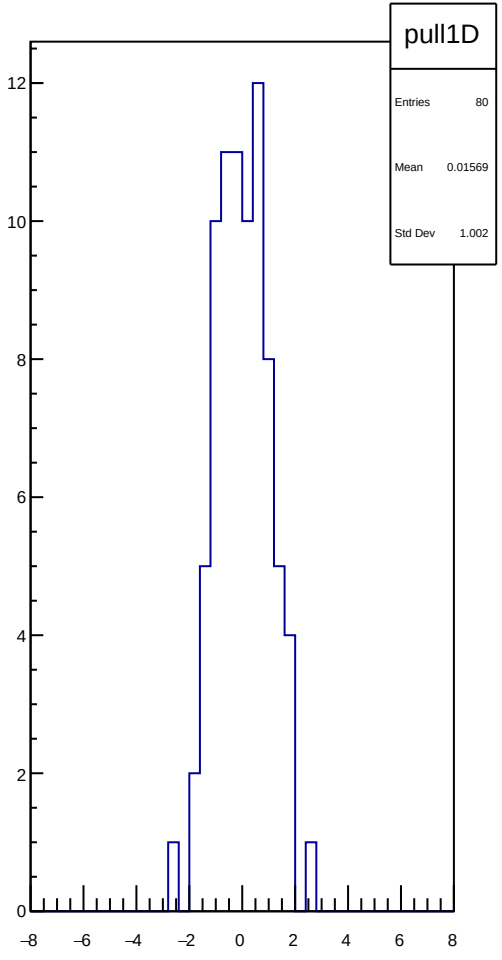

asym_sam_1357_avg_rms vs run
χ² / ndf 1.153e+04 / 79
p0 452.5 ± 0.3633
600
550
500
450
400

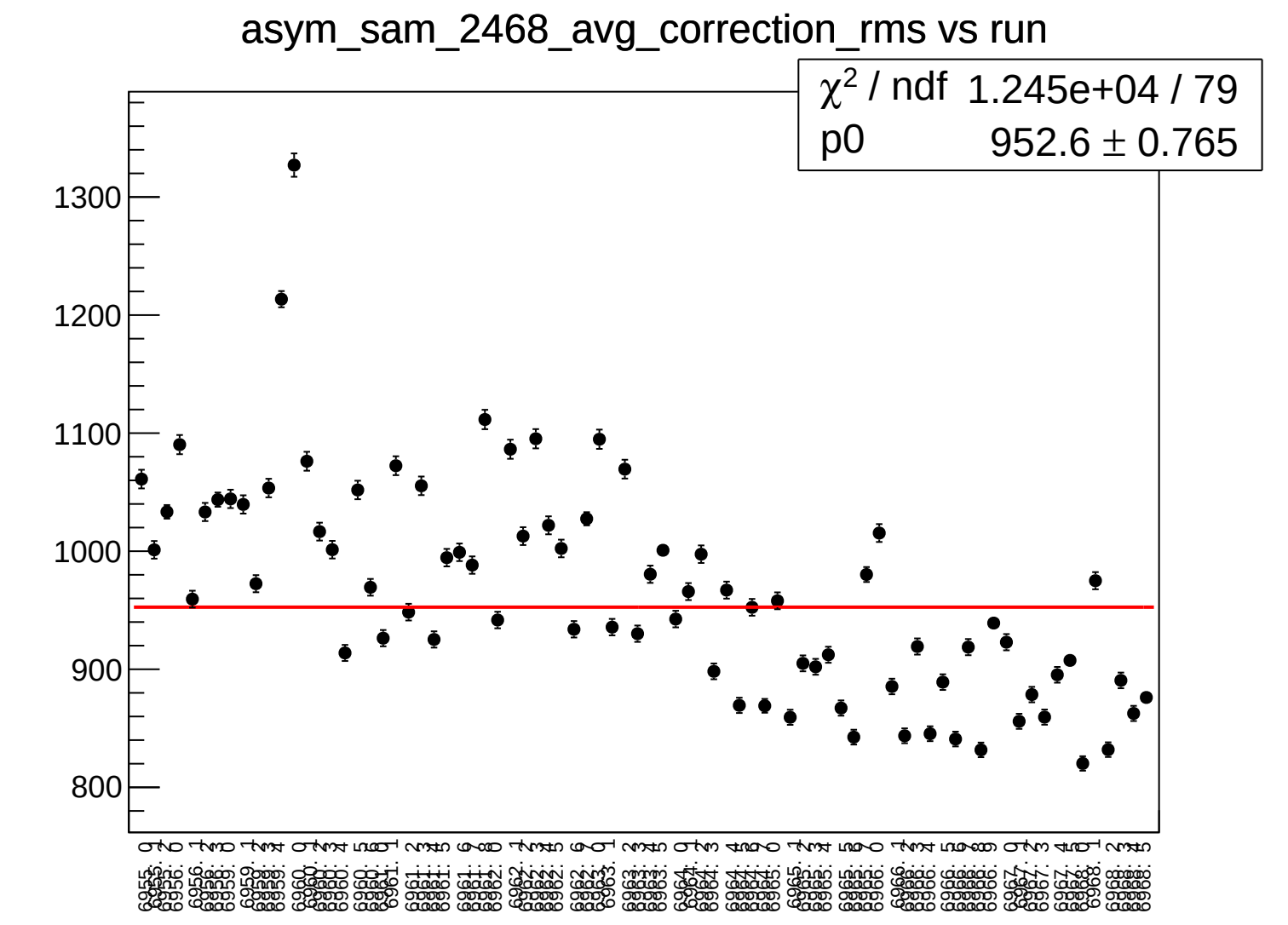

reg_asym_sam_2468_avg_mean vs run
χ^2 / ndf 60.25 / 79
p0 68.97 ± 86.96
3000
2000
1000
0
−1000
−2000
pull
Entries 80
Mean 1.706e+05
Std Dev 1.706e+05
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

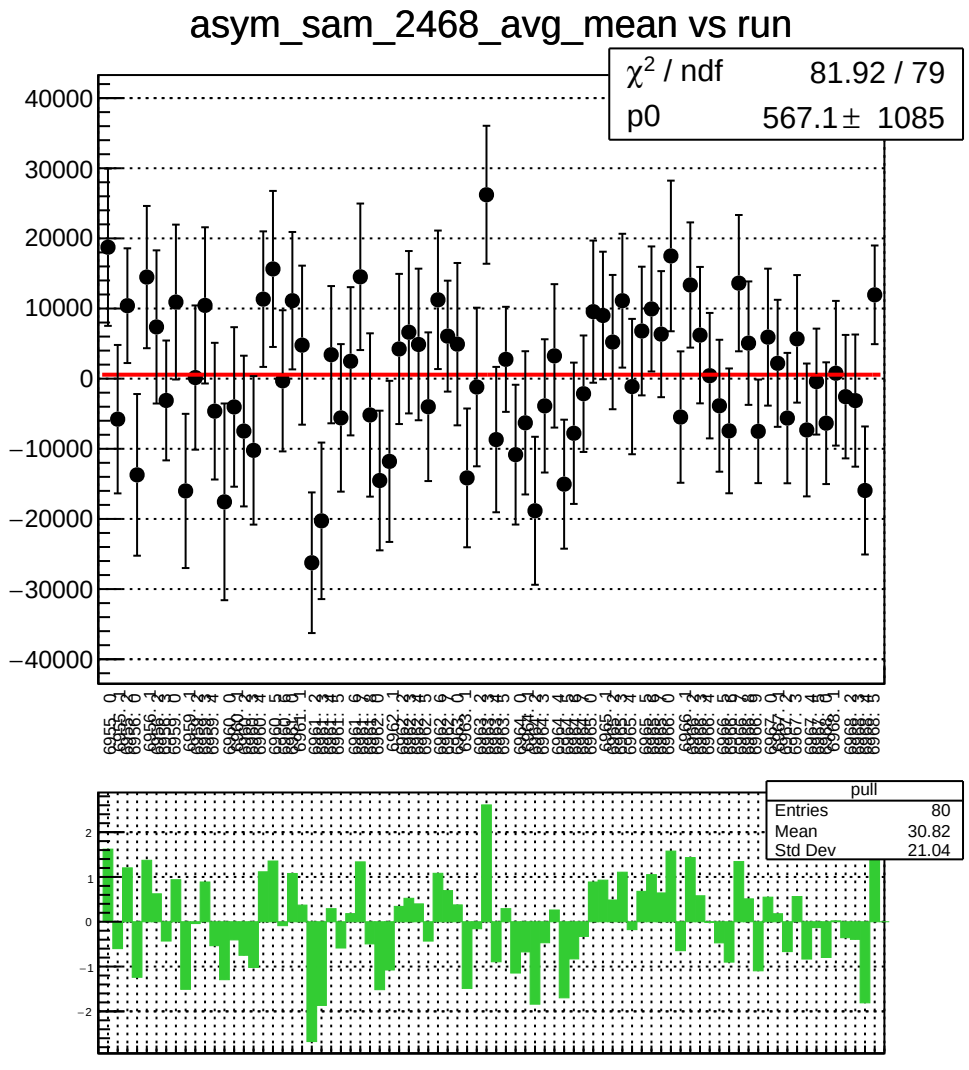

pull1D
Entries 80
Mean −8.367e−06
Std Dev 0.8678
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

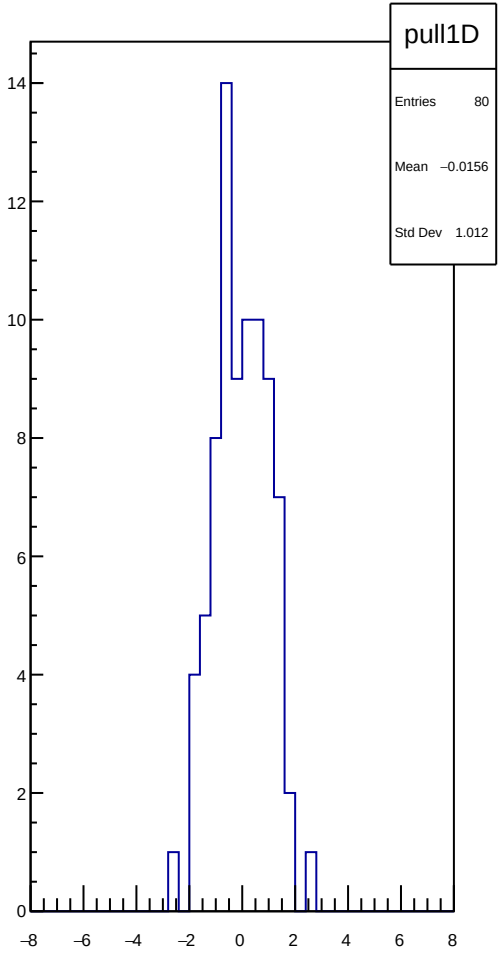

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 4017 / 79
p0 76.78 ± 0.06149
95
90
85
80
75
70

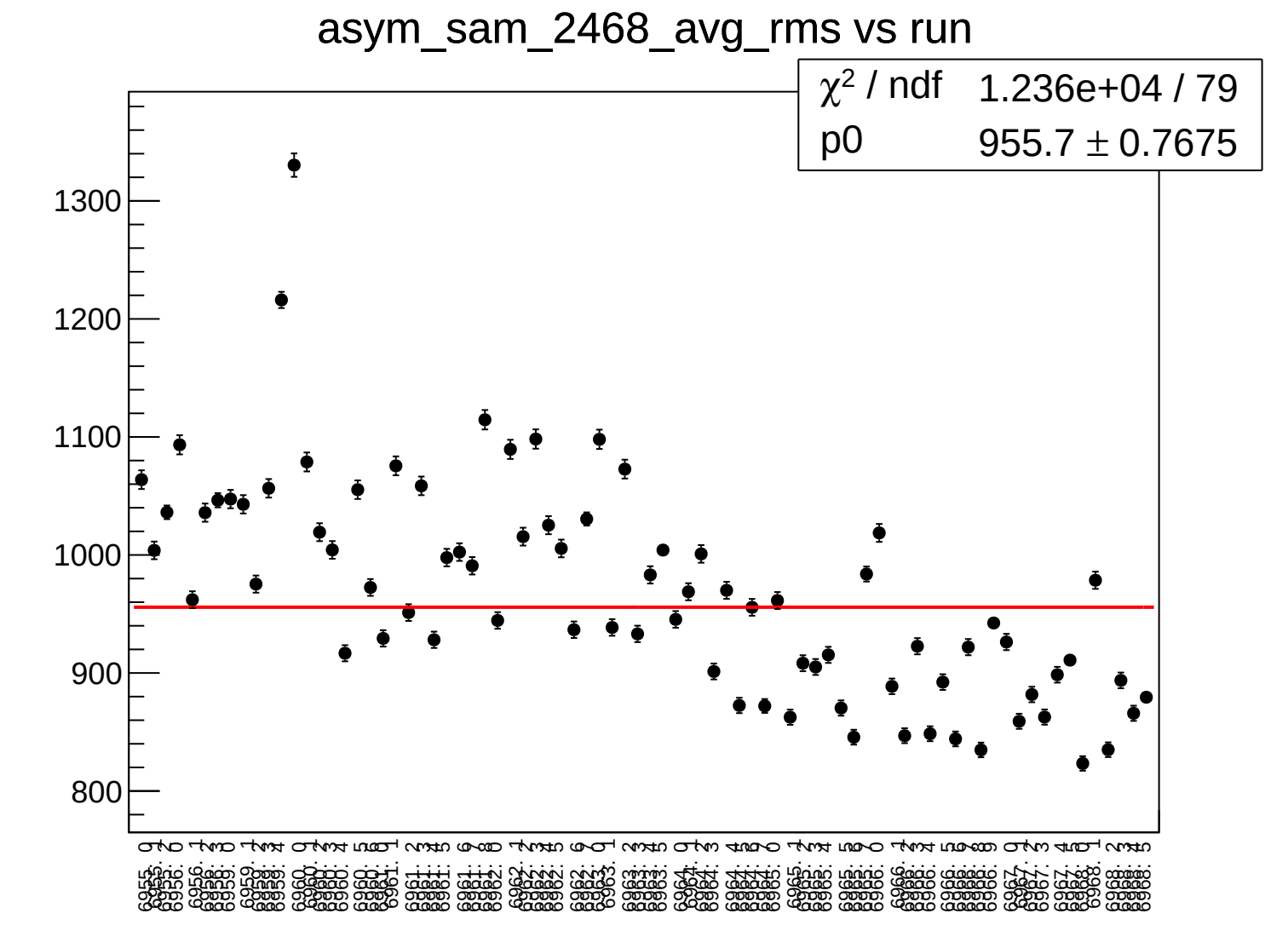

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 80.28 / 79
p0 −498.8 ± 1082
pull
Entries 80
Mean 22.75
Std Dev 27.12

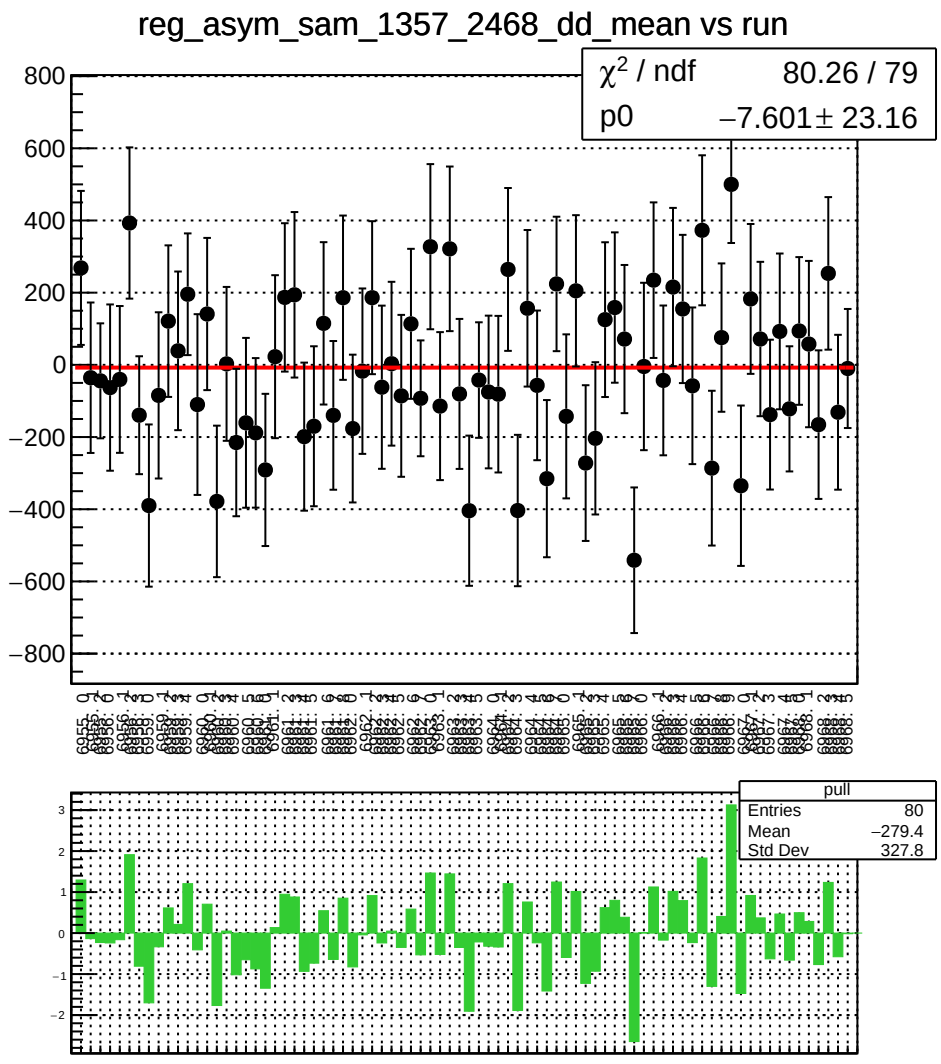

pull1D
Entries 80
Mean 0.01569
Std Dev 1.002

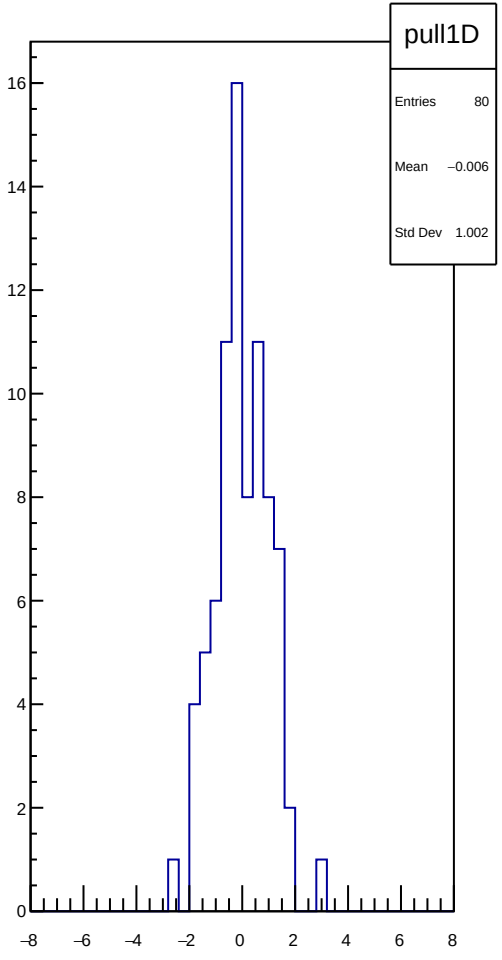

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 1.245e+04 / 79
p0 952.6 ± 0.765
1300
1200
1100
1000
900
800

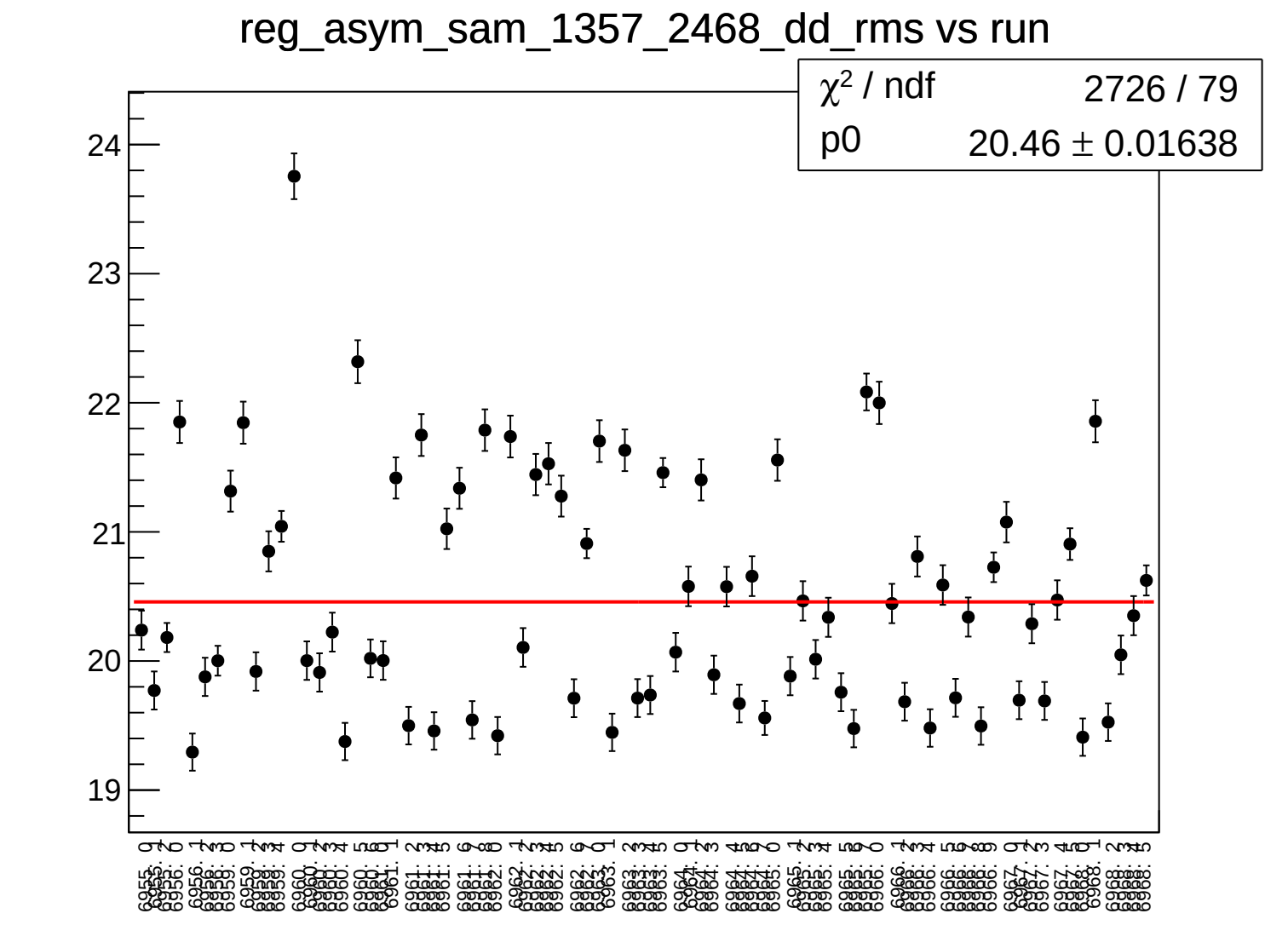

asym_sam_2468_avg_mean vs run
χ² / ndf 81.92 / 79
p0 567.1 ± 1085
pull
Entries 80
Mean 30.82
Std Dev 21.04

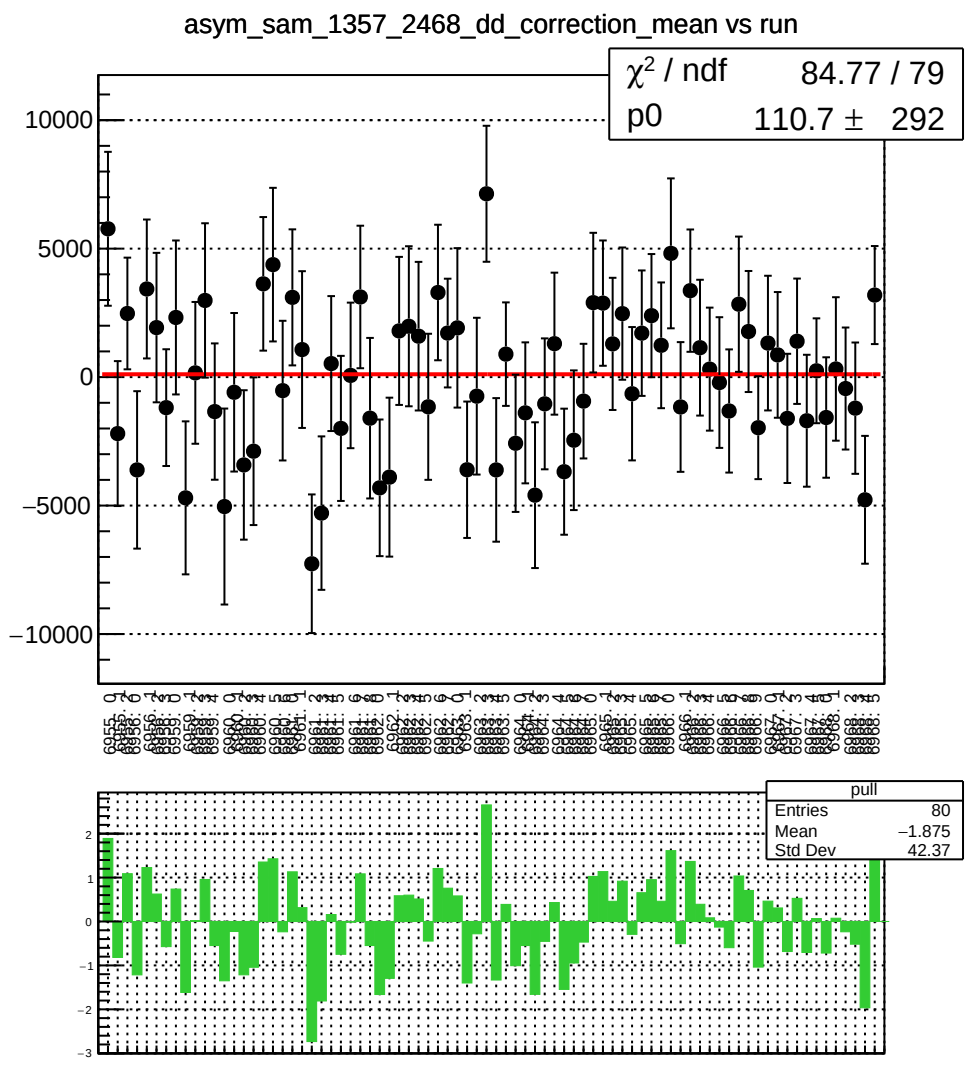

pull1D
Entries 80
Mean −0.0156
Std Dev 1.012

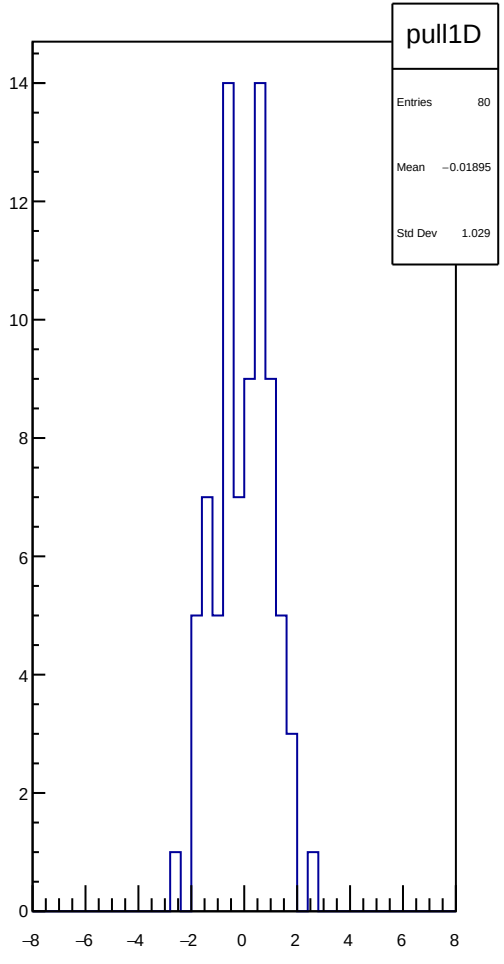

asym_sam_2468_avg_rms vs run
χ² / ndf 1.236e+04 / 79
p0 955.7 ± 0.7675
1300
1200
1100
1000
900
800

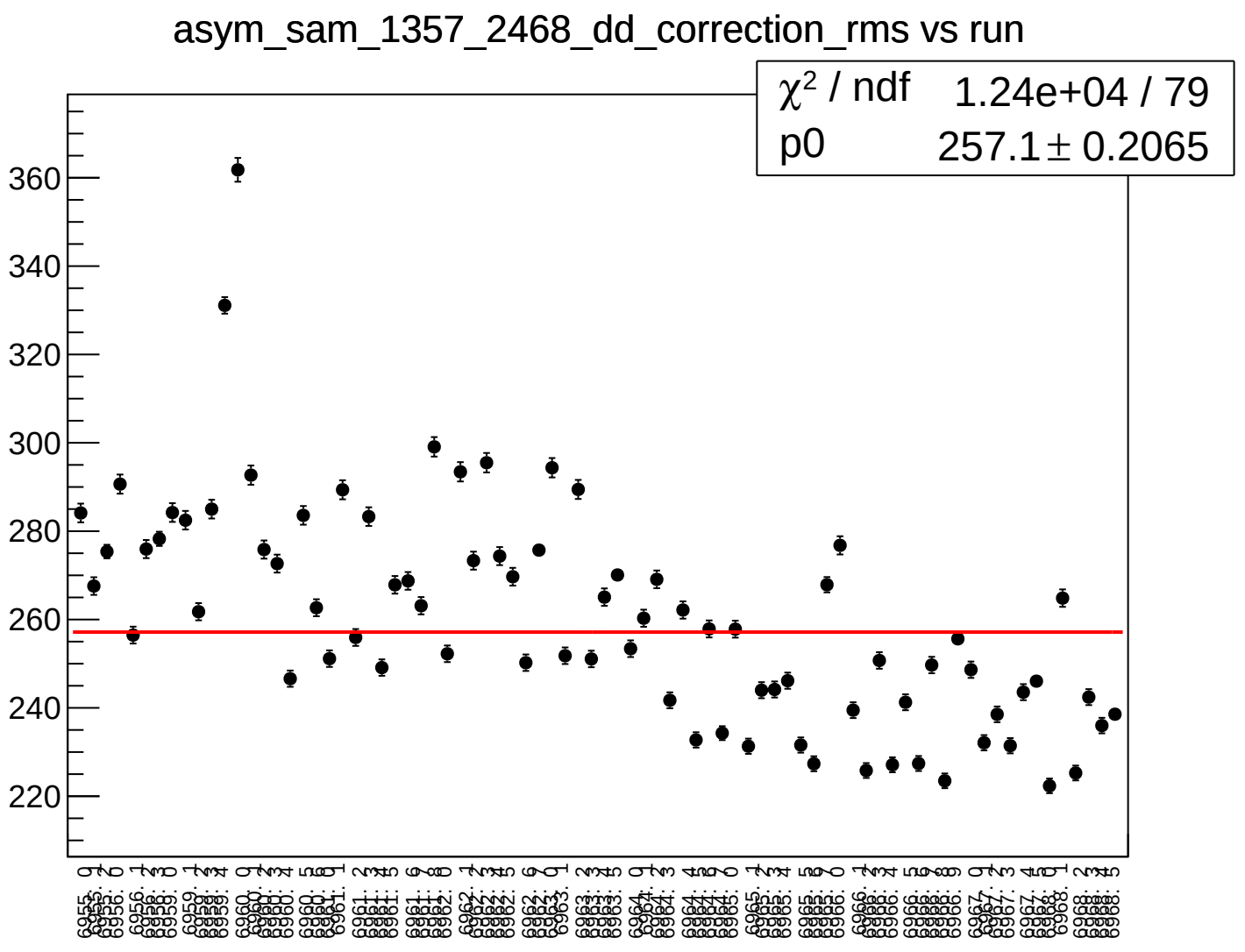

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 80.26 / 79
p0 −7.601 ± 23.16
pull
Entries 80
Mean −279.4
Std Dev 327.8

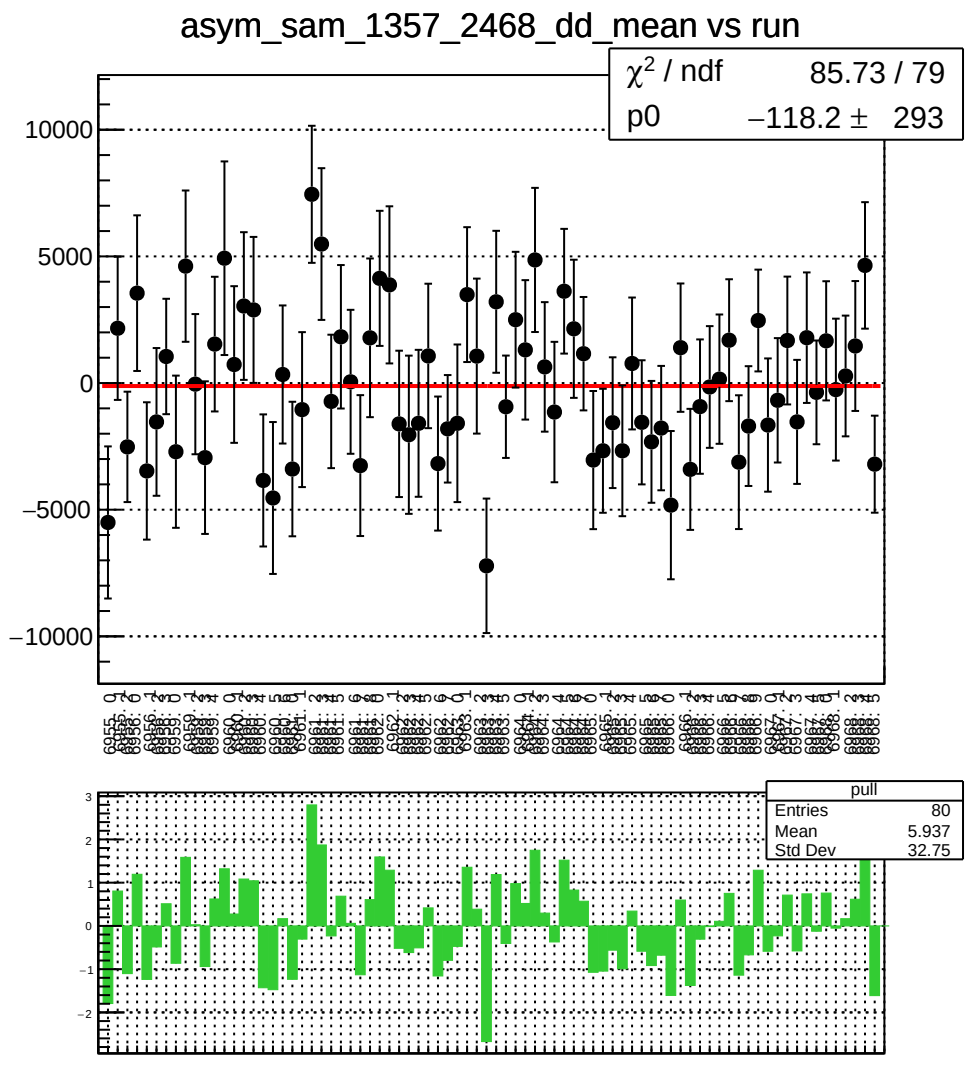

pull1D
Entries 80
Mean −0.006
Std Dev 1.002

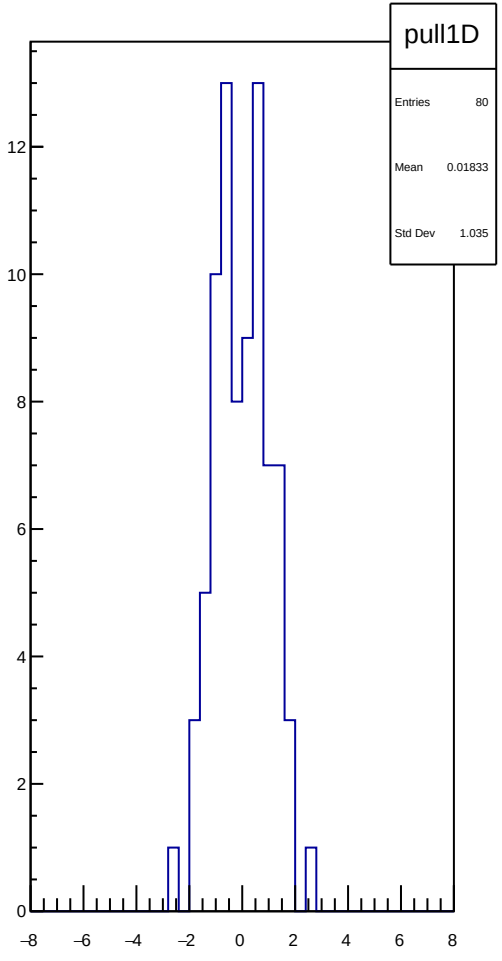

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2726 / 79
p0 20.46 ± 0.01638
24
23
22
21
20
19

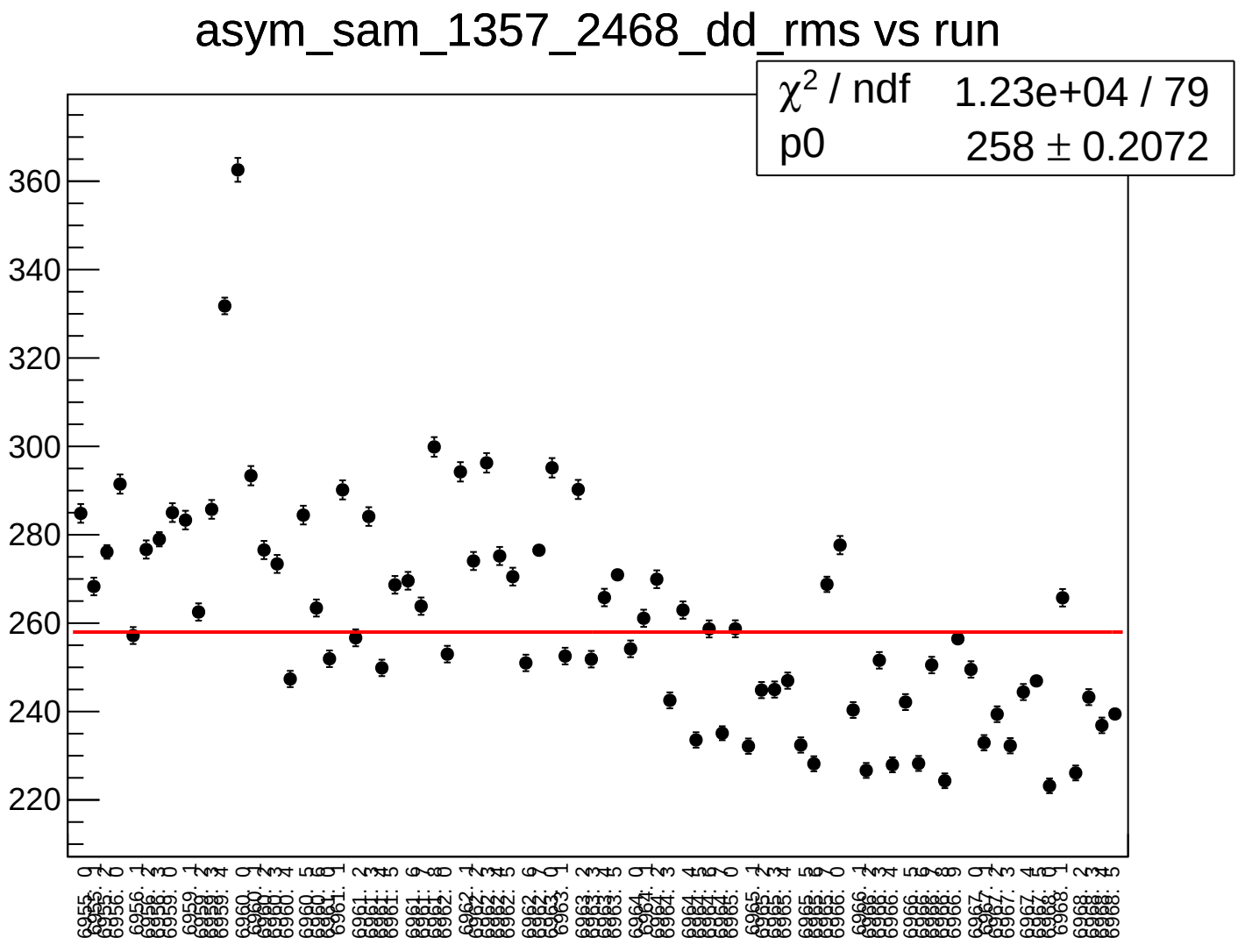

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 84.77 / 79
p0 110.7 ± 292
10000
5000
0
−5000
−10000
pull
Entries 80
Mean −1.875
Std Dev 42.37
2
1
0
−1
−2
−3

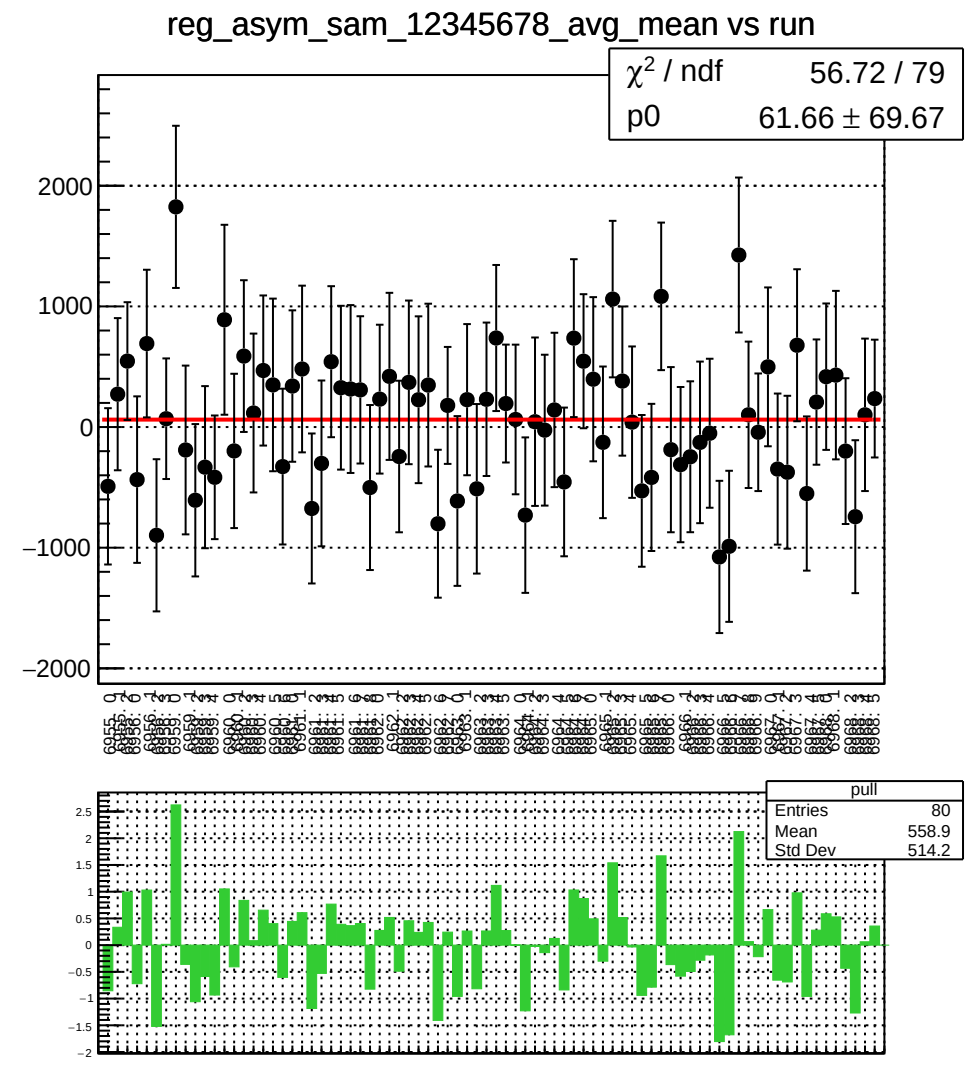

pull1D
Entries 80
Mean −0.01895
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

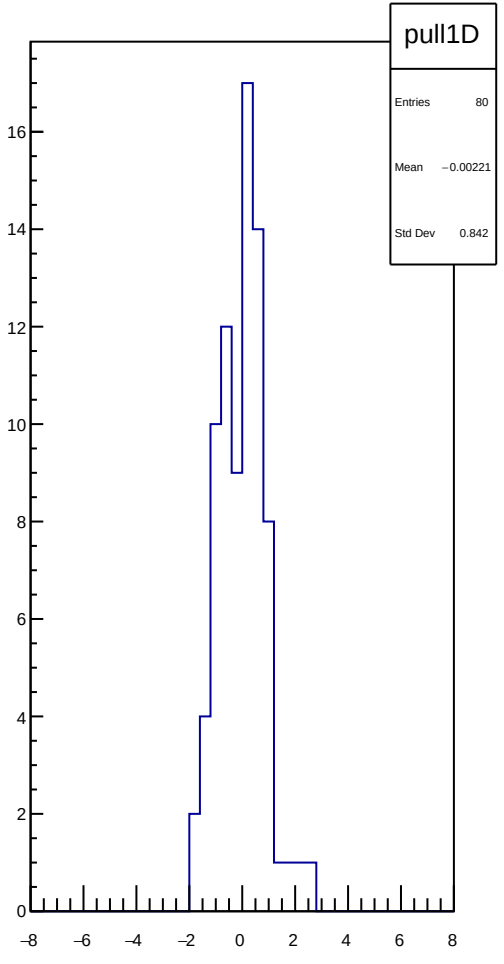

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1.24e+04 / 79
p0 257.1 ± 0.2065
360
340
320
300
280
260
240
220

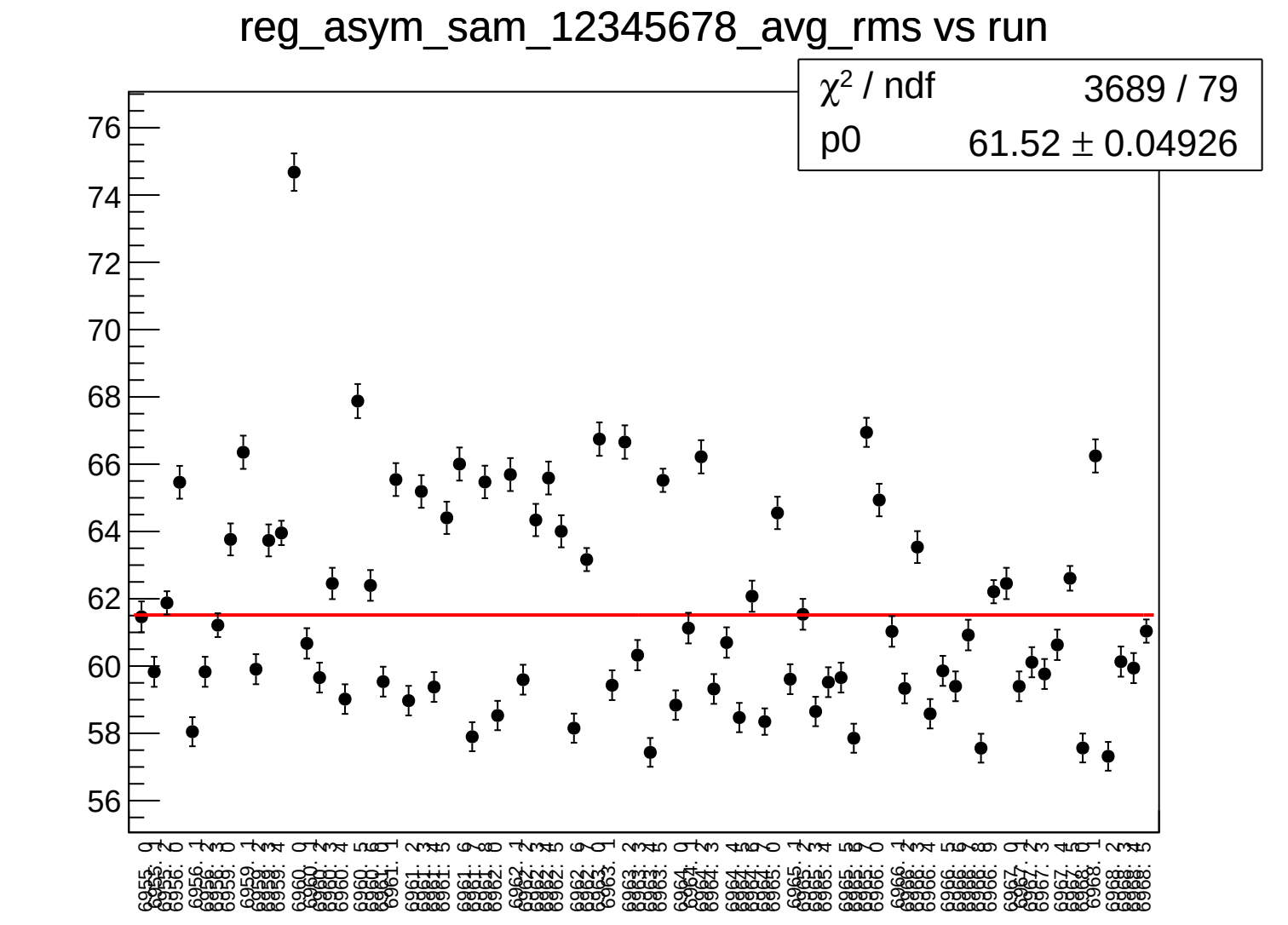

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 85.73 / 79
p0 −118.2 ± 293
10000
5000
0
−5000
−10000
pull
Entries 80
Mean 5.937
Std Dev 32.75
3
2
1
0
−1
−2

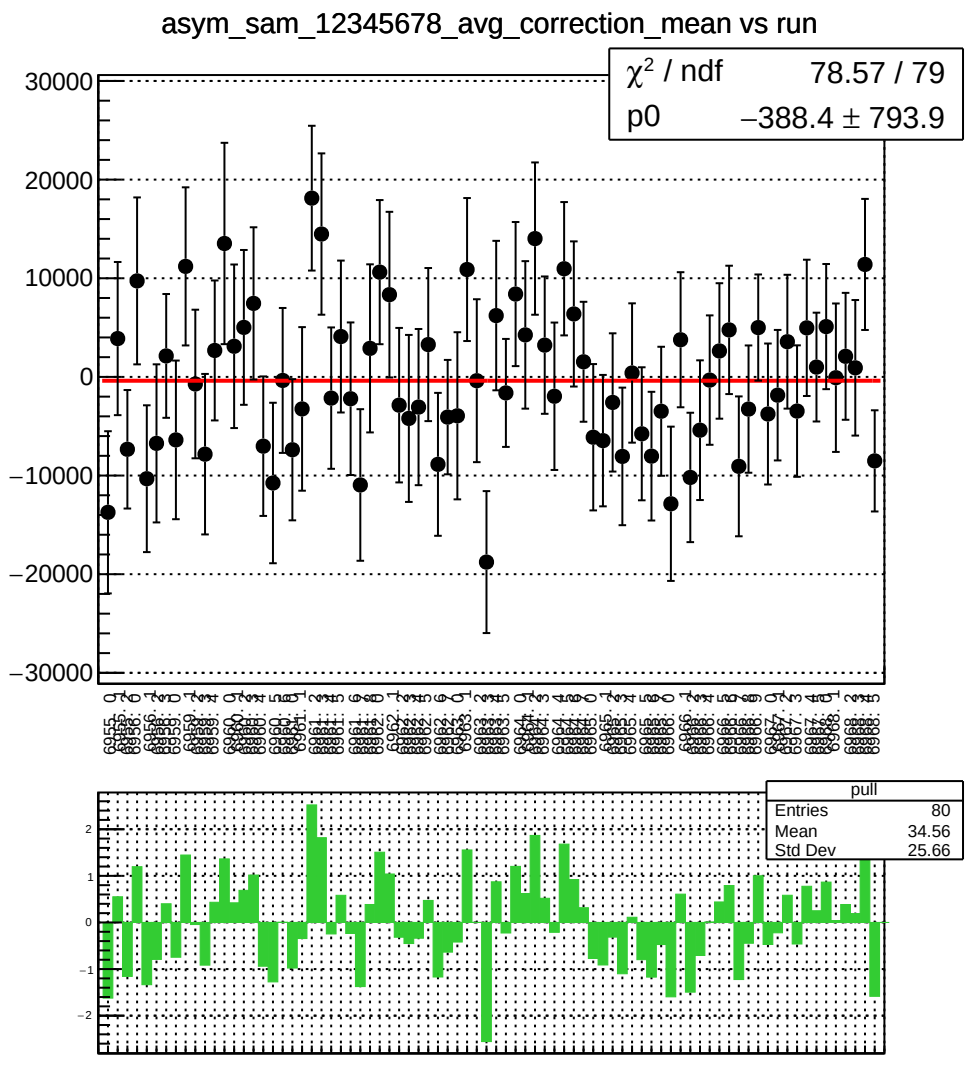

pull1D
Entries 80
Mean 0.01833
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

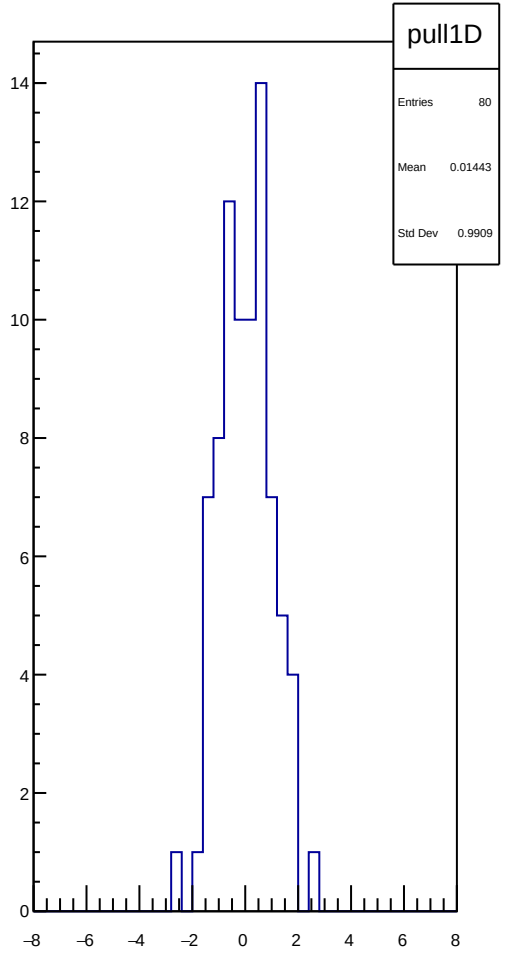

asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 1.23e+04 / 79
p0 258 ± 0.2072
360
340
320
300
280
260
240
220

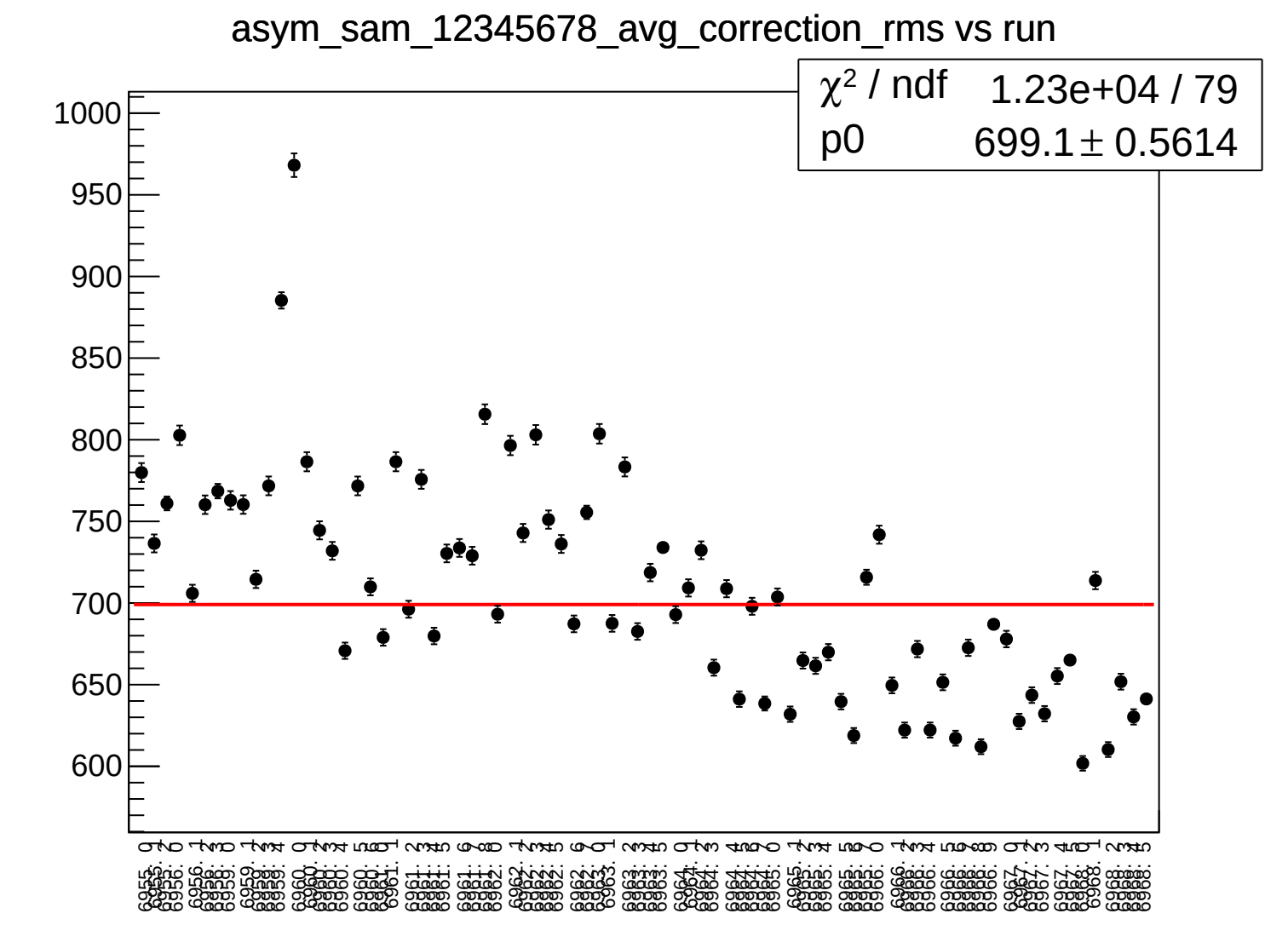

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 56.72 / 79
p0 61.66 ± 69.67
2000
1000
0
−1000
−2000
pull
Entries 80
Mean 558.9
Std Dev 514.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

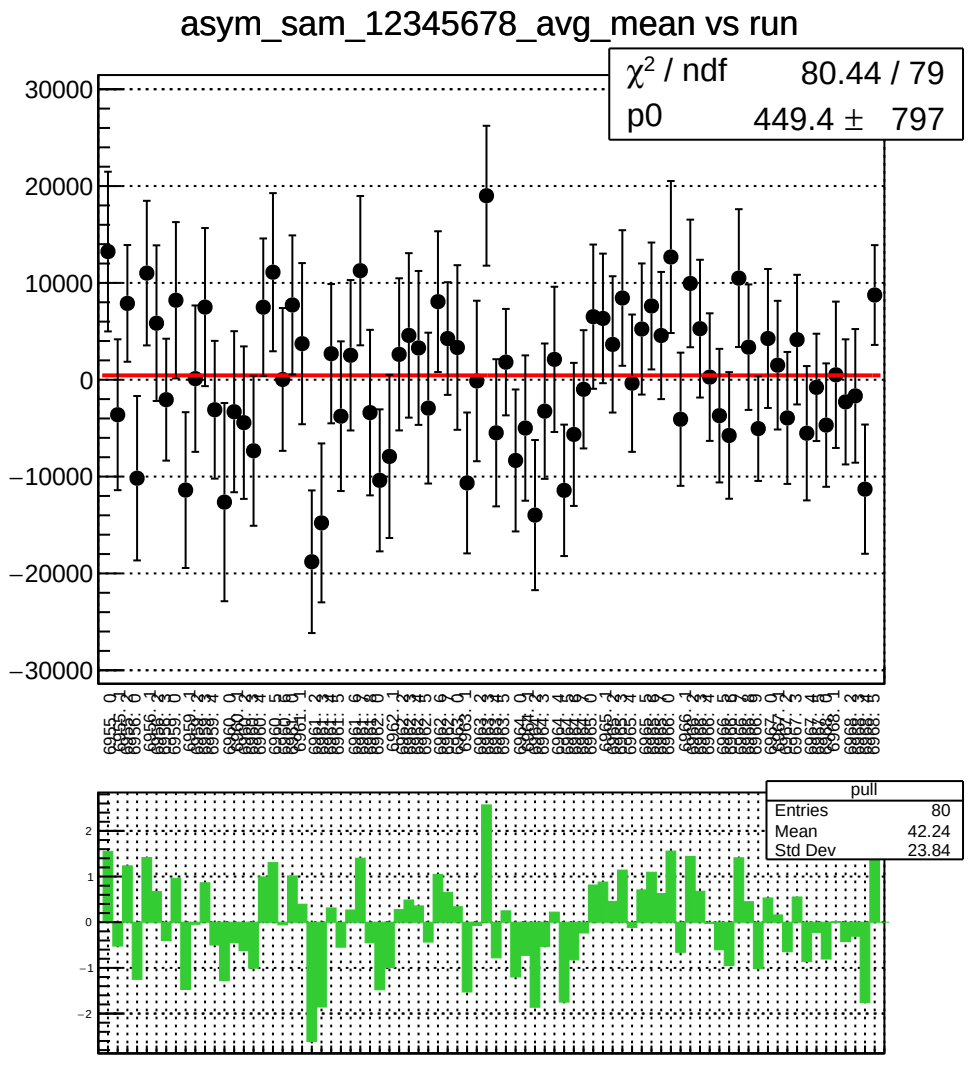

pull1D
Entries 80
Mean −0.00221
Std Dev 0.842
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

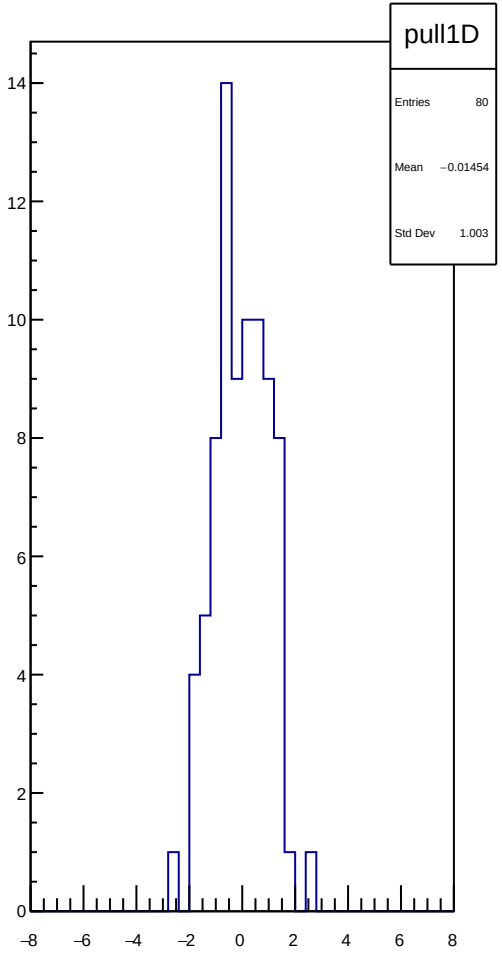

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 3689 / 79
p0 61.52 ± 0.04926
76
74
72
70
68
66
64
62
60
58
56

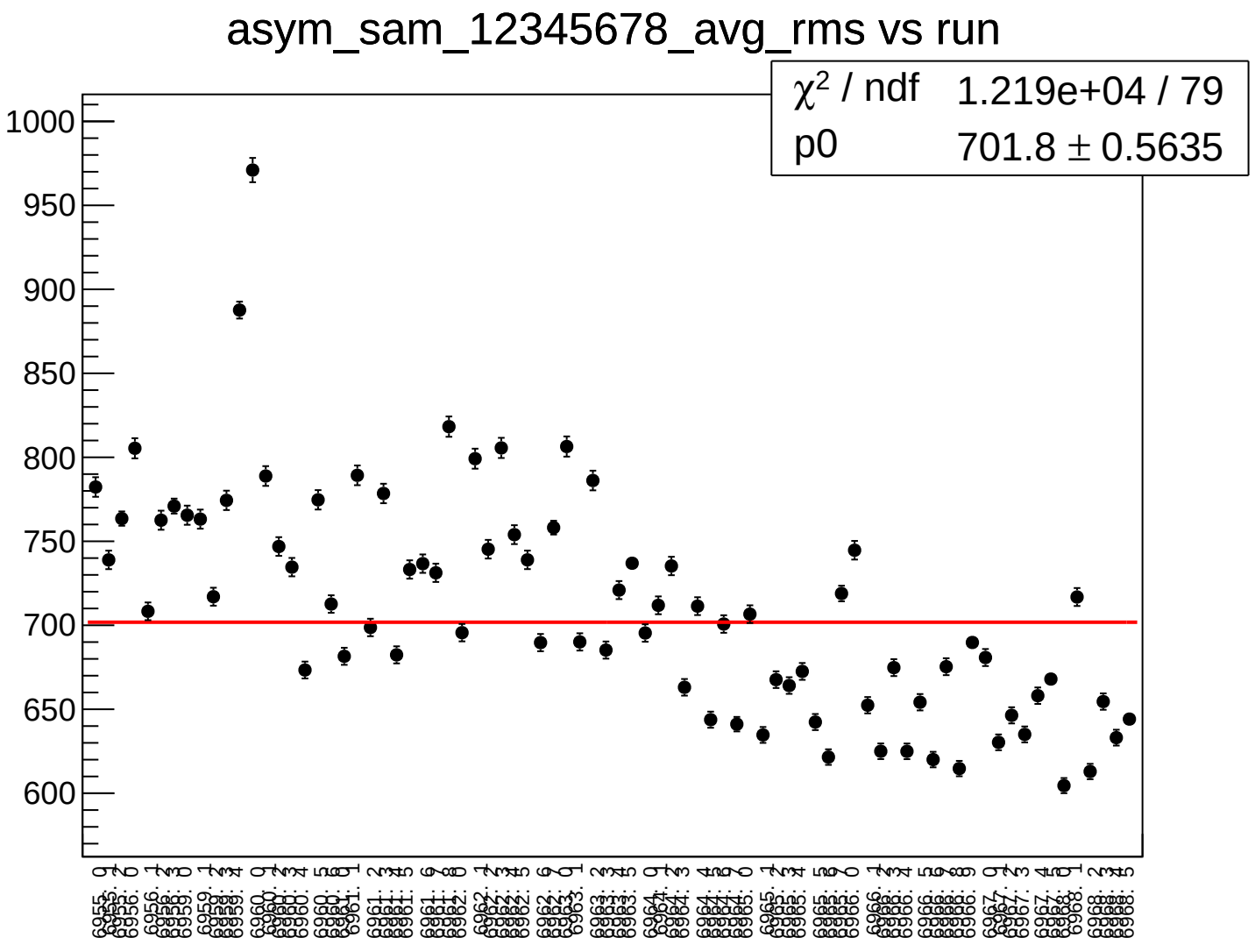

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 78.57 / 79
p0 −388.4 ± 793.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 80
Mean 34.56
Std Dev 25.66
2
1
0
−1
−2

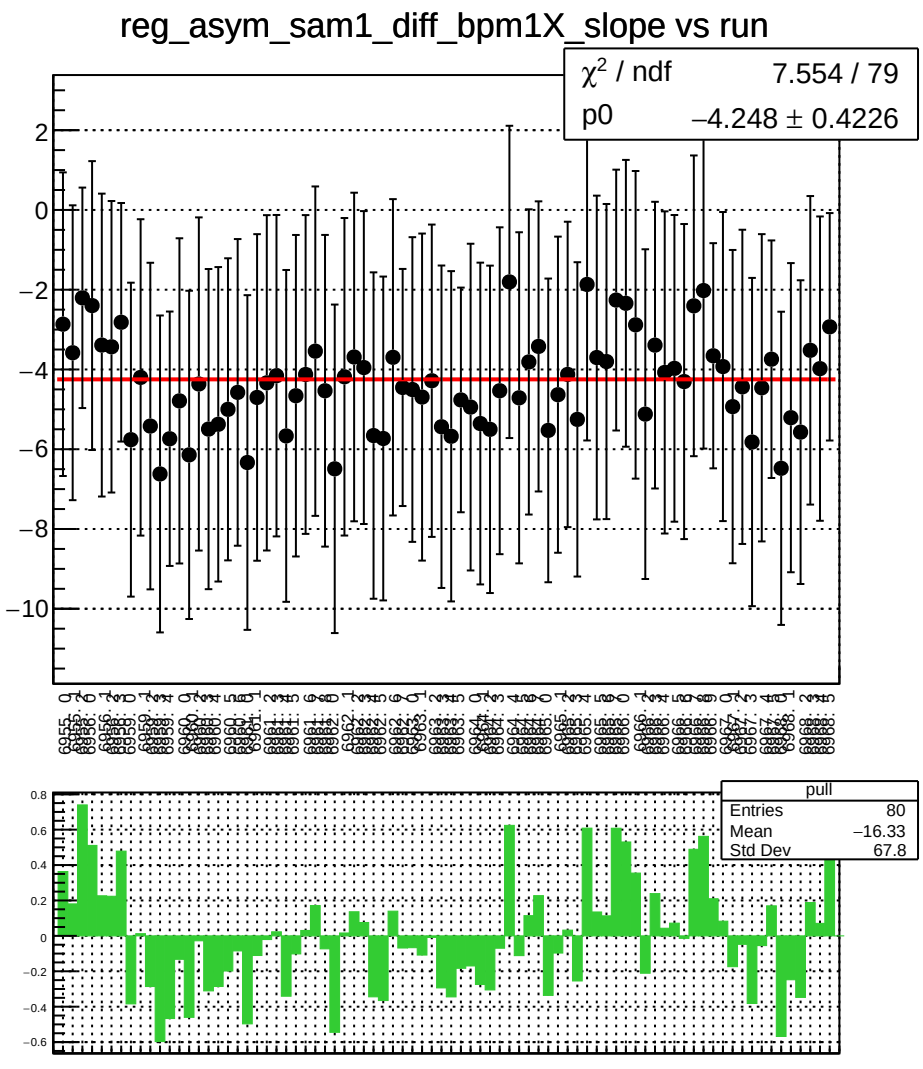

pull1D
Entries 80
Mean 0.01443
Std Dev 0.9909
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

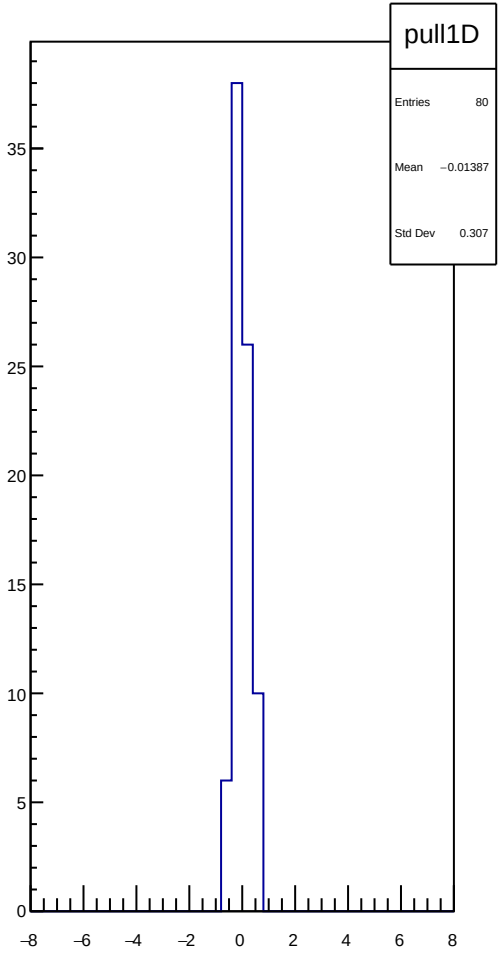

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 1.23e+04 / 79
p0 699.1 ± 0.5614
1000
950
900
850
800
750
700
650
600

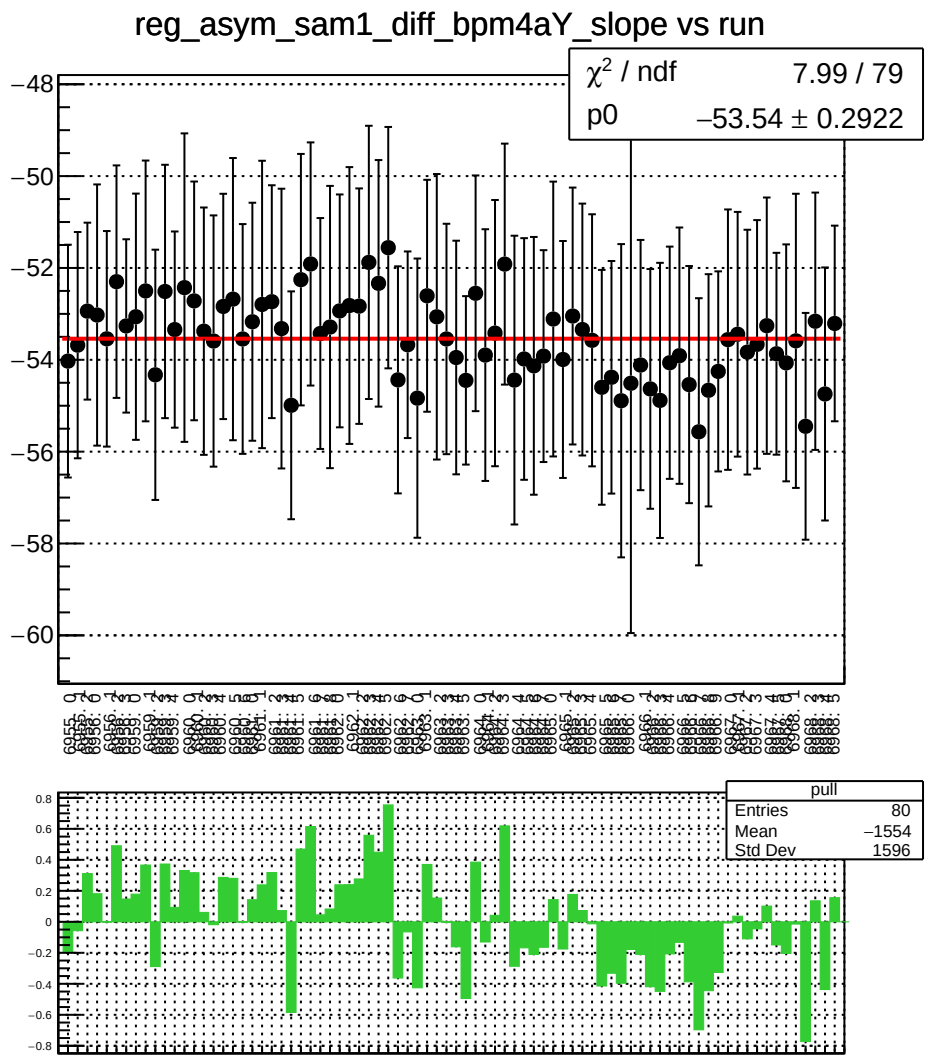

asym_sam_12345678_avg_mean vs run
χ² / ndf 80.44 / 79
p0 449.4 ± 797
pull
Entries 80
Mean 42.24
Std Dev 23.84

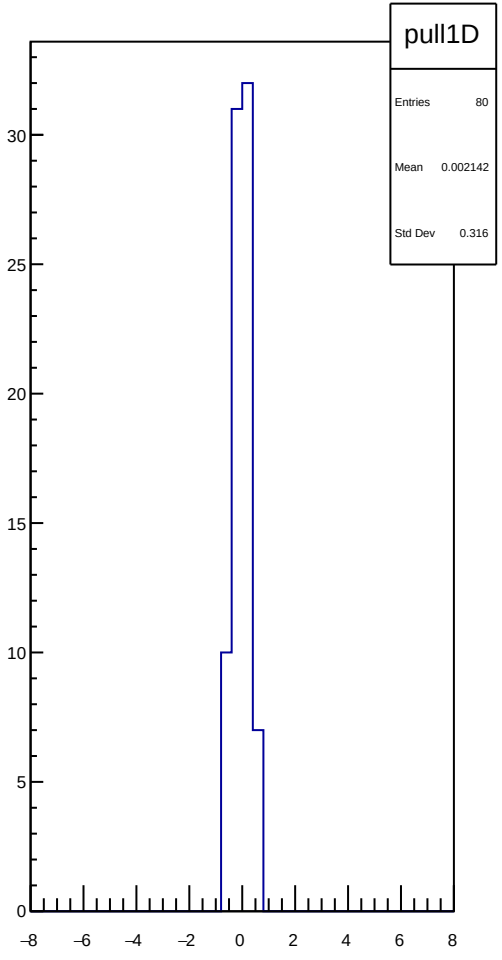

pull1D
Entries 80
Mean −0.01454
Std Dev 1.003

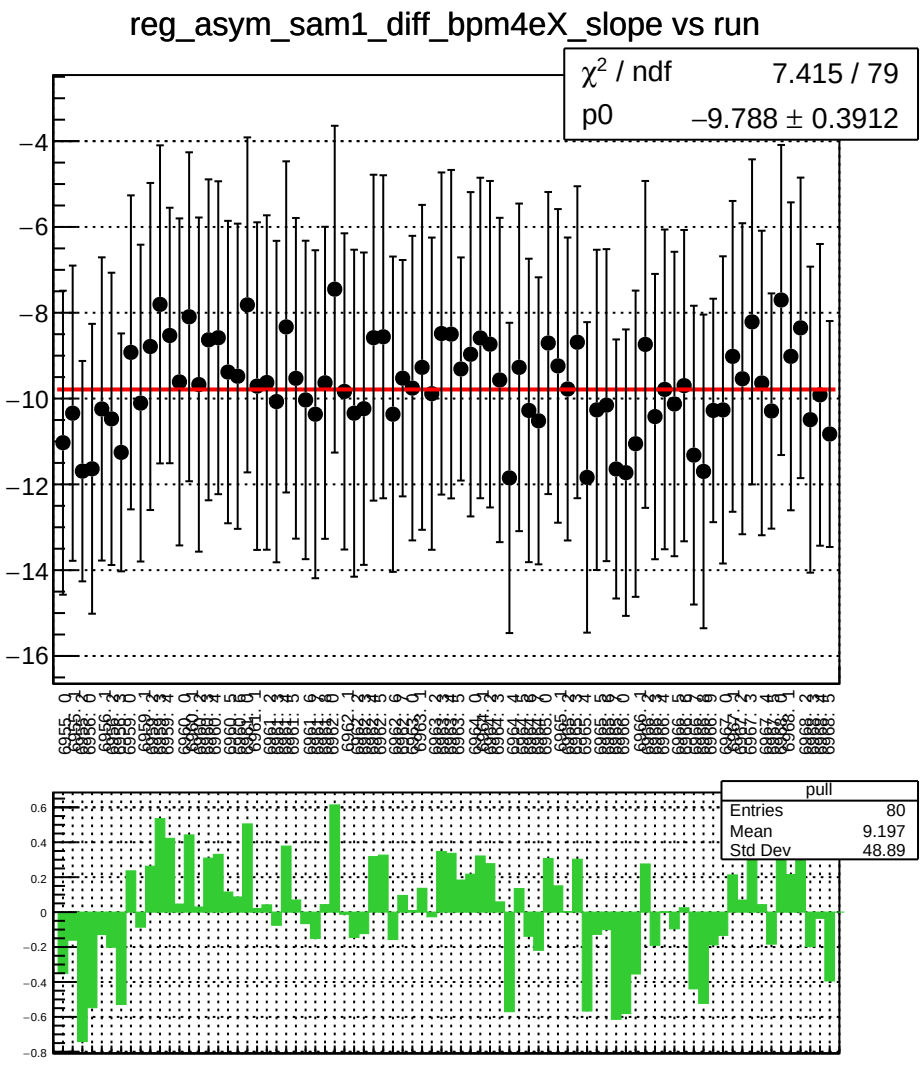

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.219e+04 / 79
p0 701.8 ± 0.5635
1000
950
900
850
800
750
700
650
600

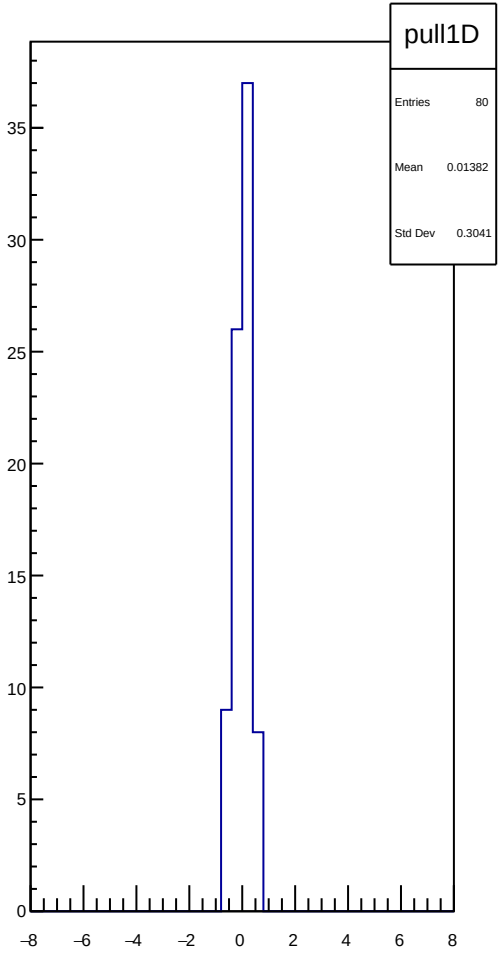

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 7.554 / 79
p0 −4.248 ± 0.4226
pull
Entries 80
Mean −16.33
Std Dev 67.8

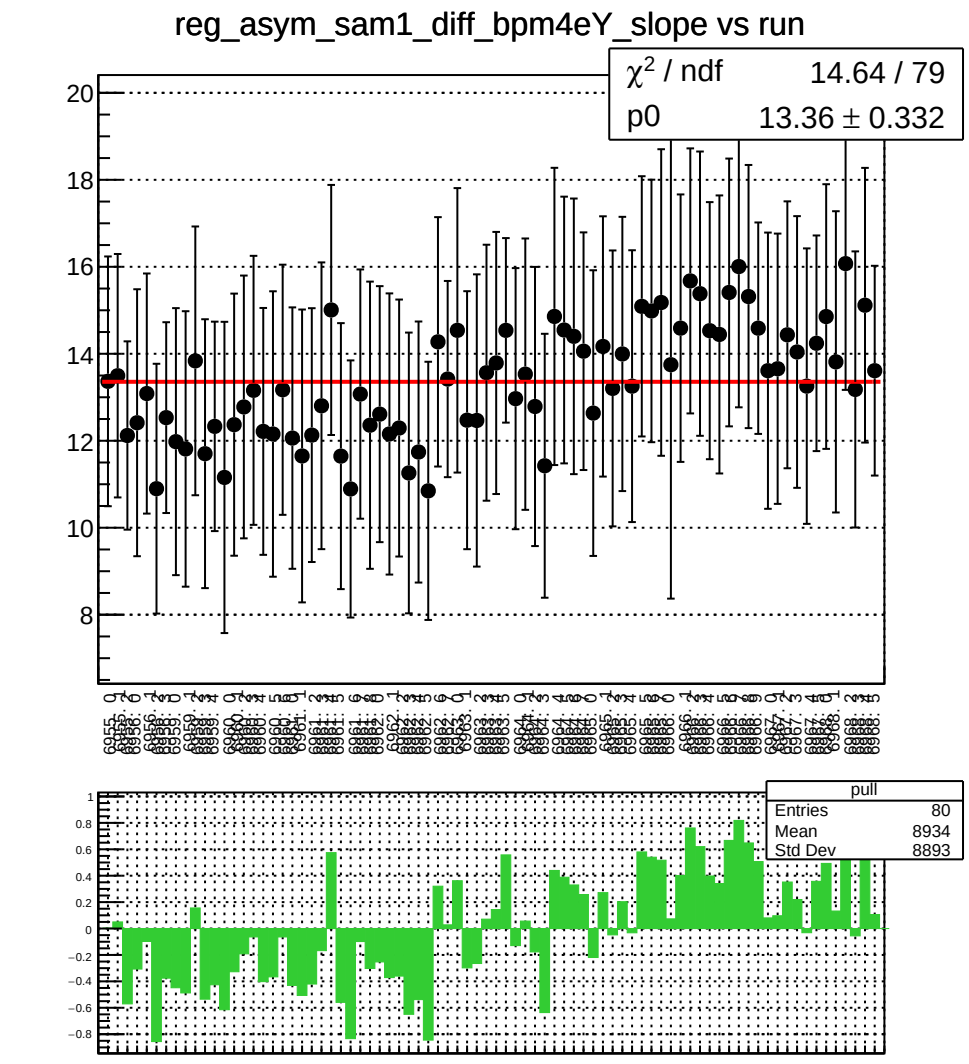

pull1D
Entries 80
Mean −0.01387
Std Dev 0.307

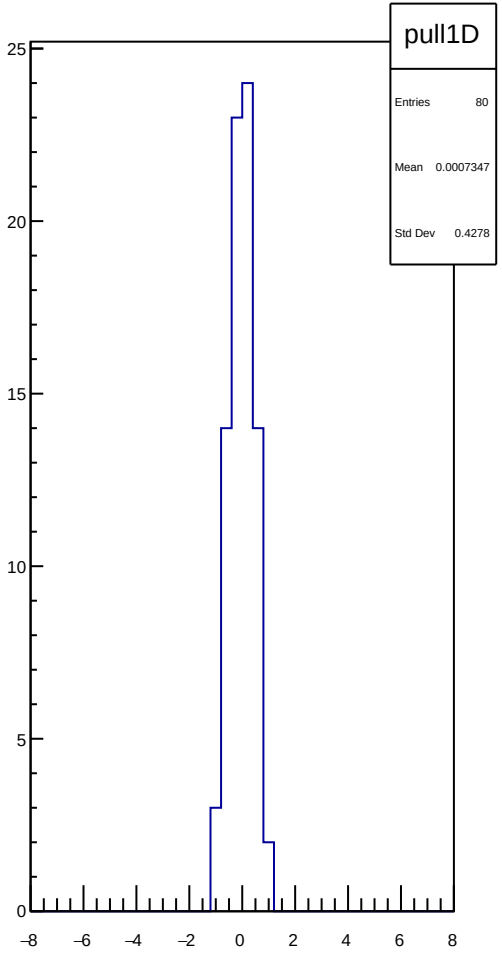

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 7.99 / 79
p0 −53.54 ± 0.2922
pull
Entries 80
Mean −1554
Std Dev 1596

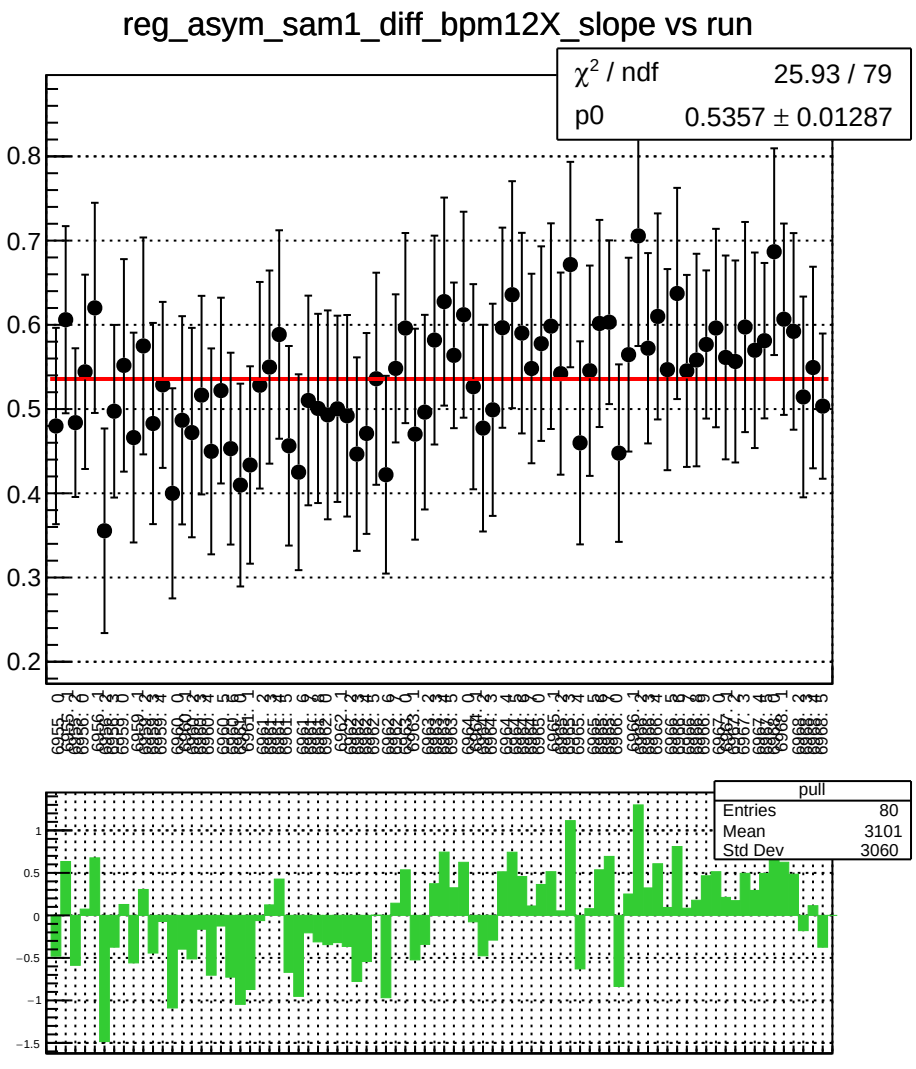

pull1D
Entries 80
Mean 0.002142
Std Dev 0.316

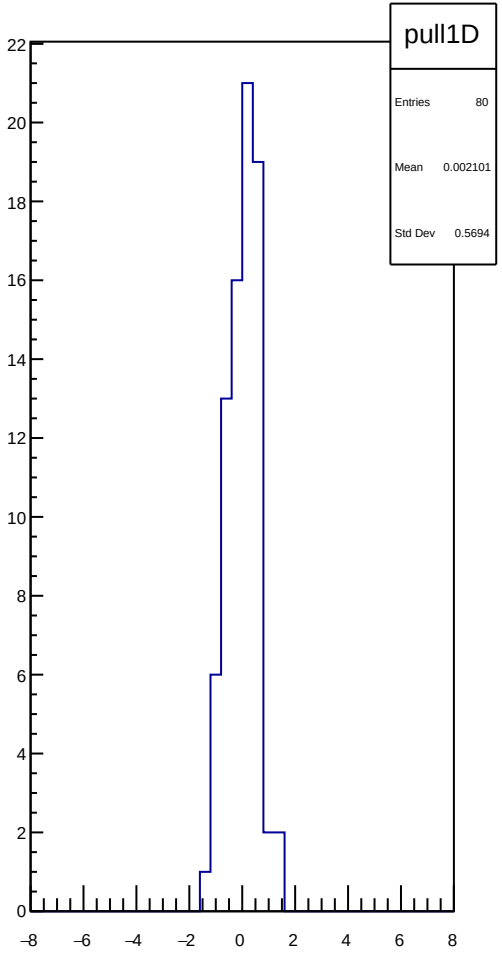

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 7.415 / 79
p0 −9.788 ± 0.3912
pull
Entries 80
Mean 9.197
Std Dev 48.89

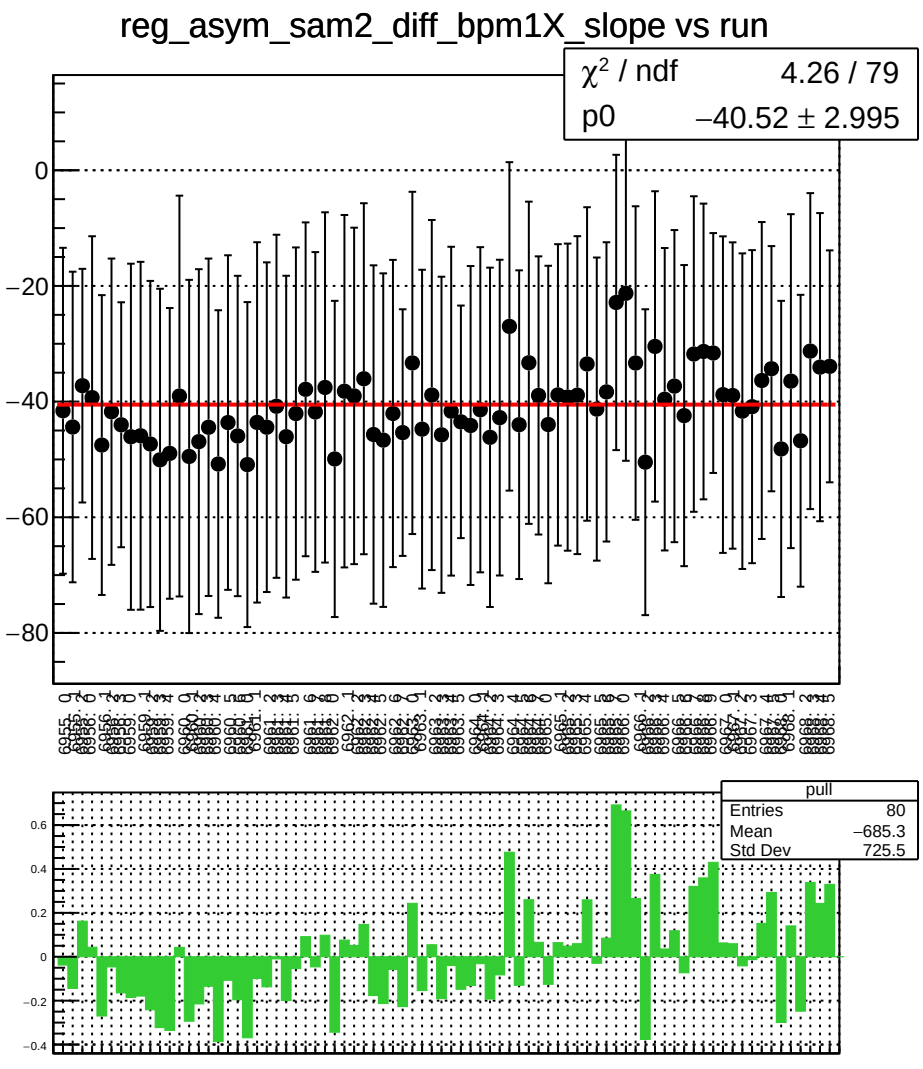

pull1D
Entries 80
Mean 0.01382
Std Dev 0.3041

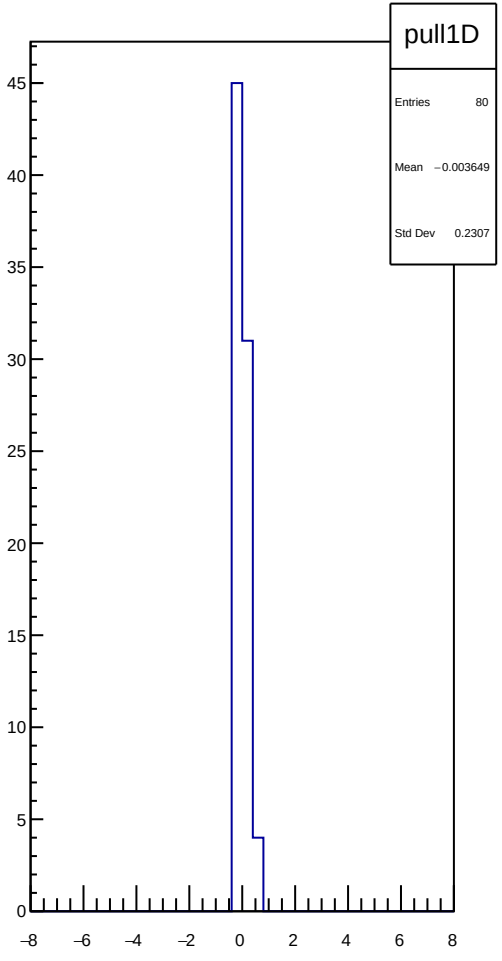

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 14.64 / 79
p0 13.36 ± 0.332
pull
Entries 80
Mean 8934
Std Dev 8893

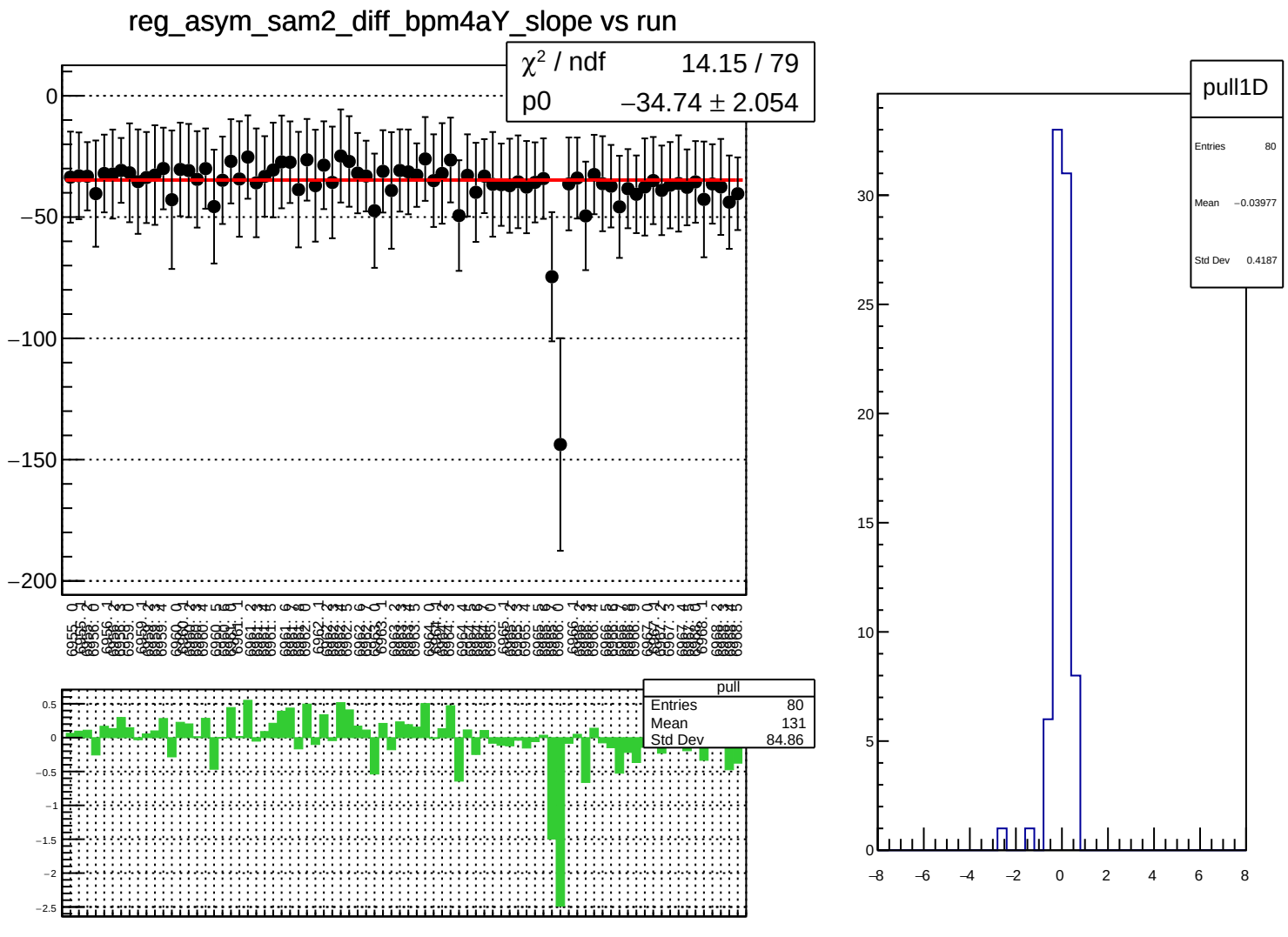

pull1D
Entries 80
Mean 0.0007347
Std Dev 0.4278

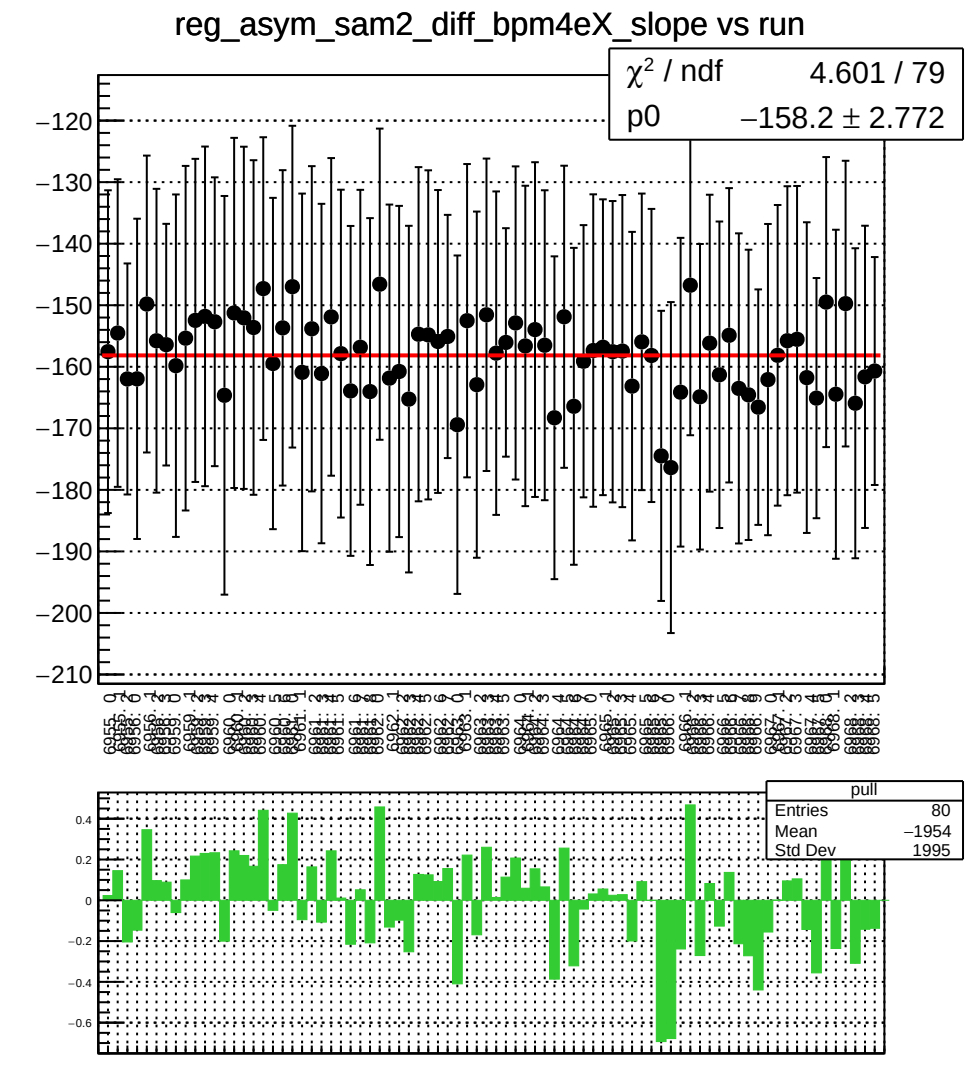

reg_asym_sam1_diff_bpm12X_slope vs run
χ^2 / ndf 25.93 / 79
p0 0.5357 ± 0.01287
pull
Entries 80
Mean 3101
Std Dev 3060

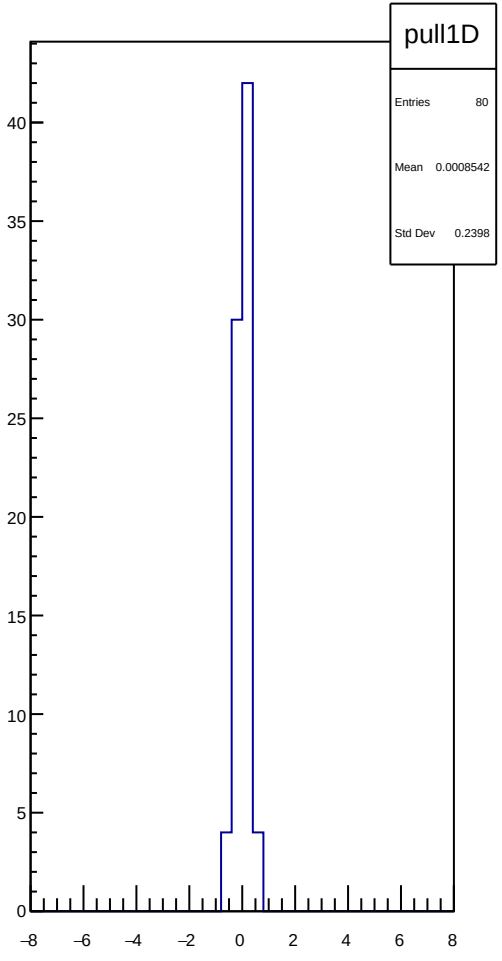

pull1D
Entries 80
Mean 0.002101
Std Dev 0.5694

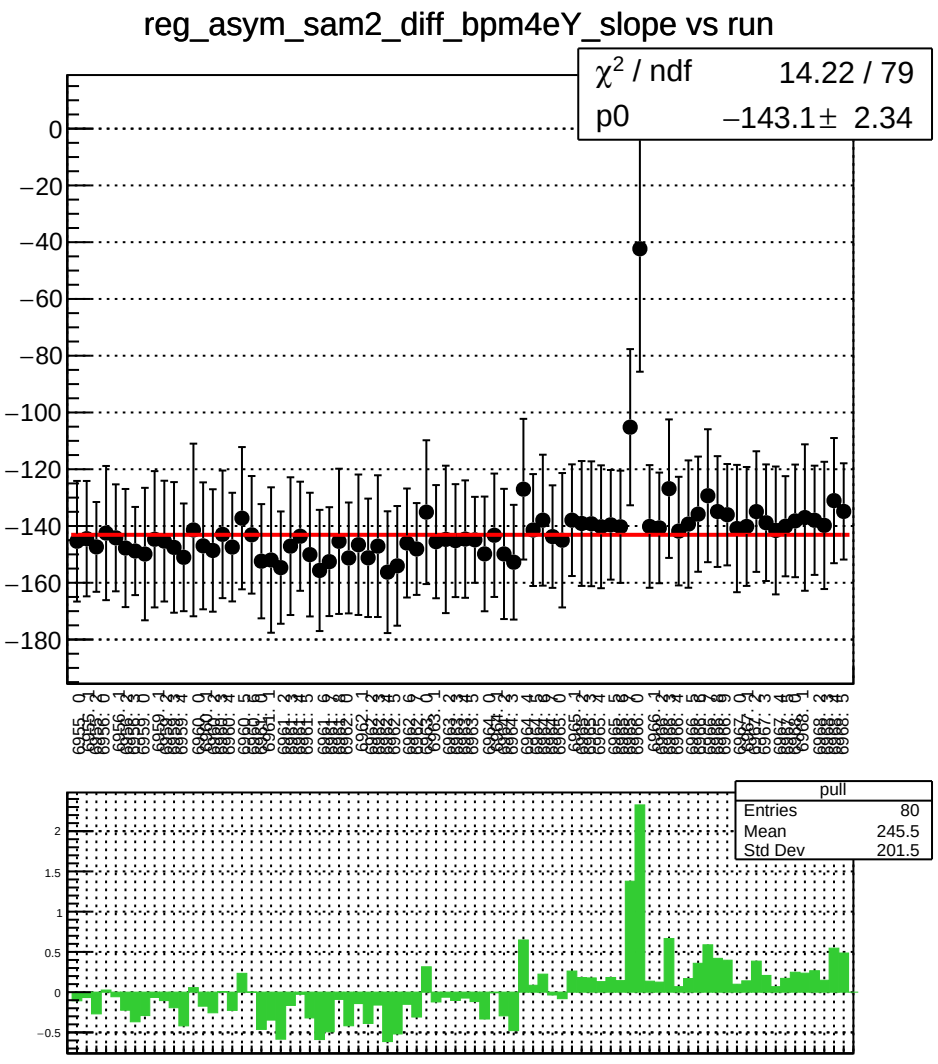

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 4.26 / 79
p0 −40.52 ± 2.995
pull
Entries 80
Mean −685.3
Std Dev 725.5

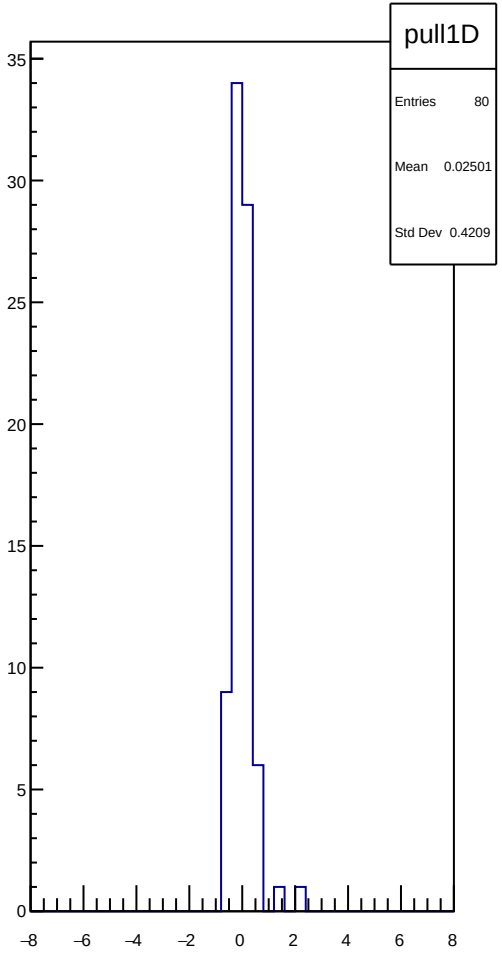

pull1D
Entries 80
Mean −0.003649
Std Dev 0.2307

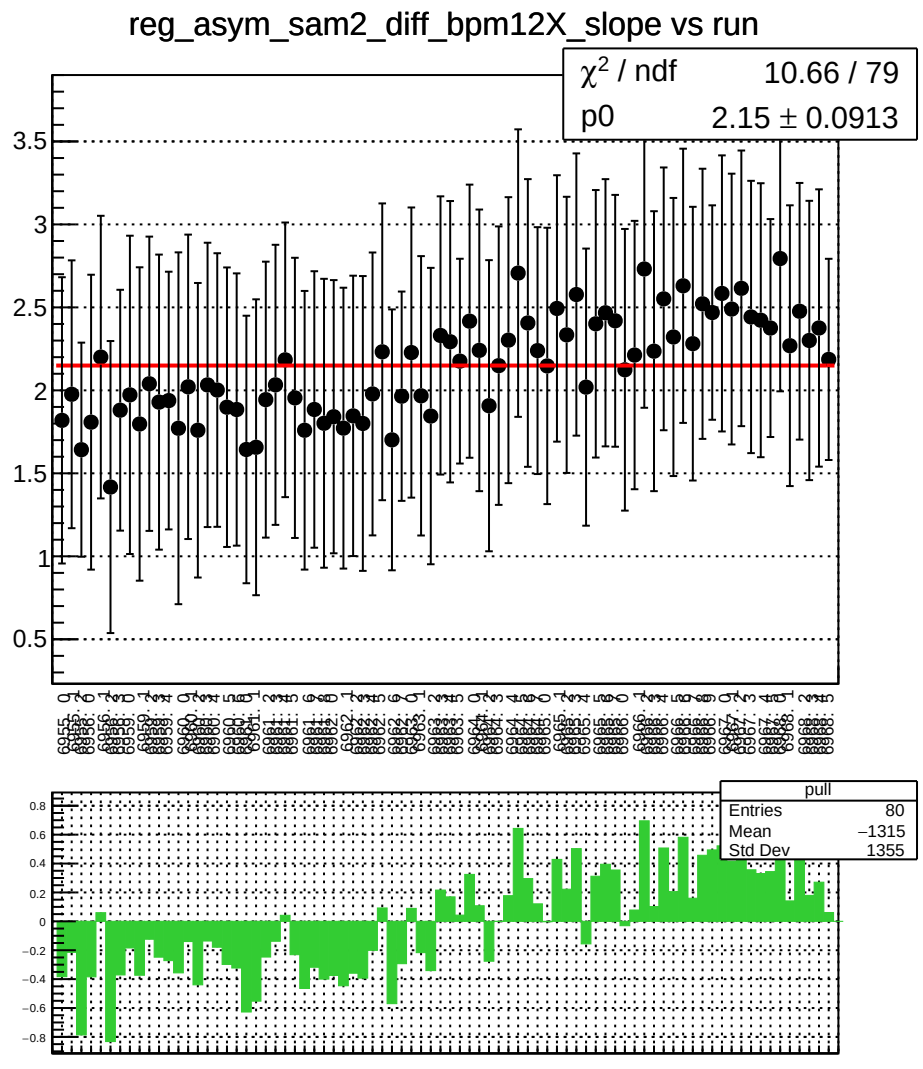

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 14.15 / 79
p0 −34.74 ± 2.054
pull
Entries 80
Mean 131
Std Dev 84.86
pull1D
Entries 80
Mean −0.03977
Std Dev 0.4187

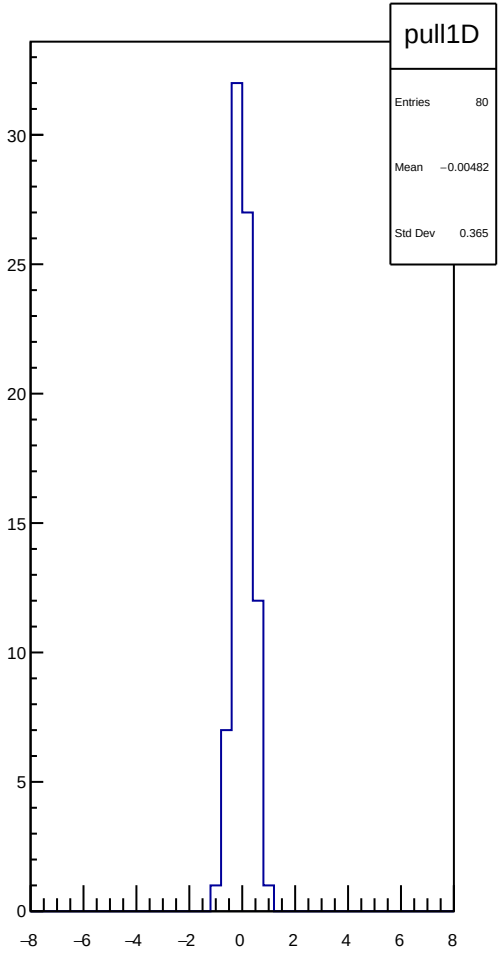

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 4.601 / 79
p0 −158.2 ± 2.772
pull
Entries 80
Mean −1954
Std Dev 1995

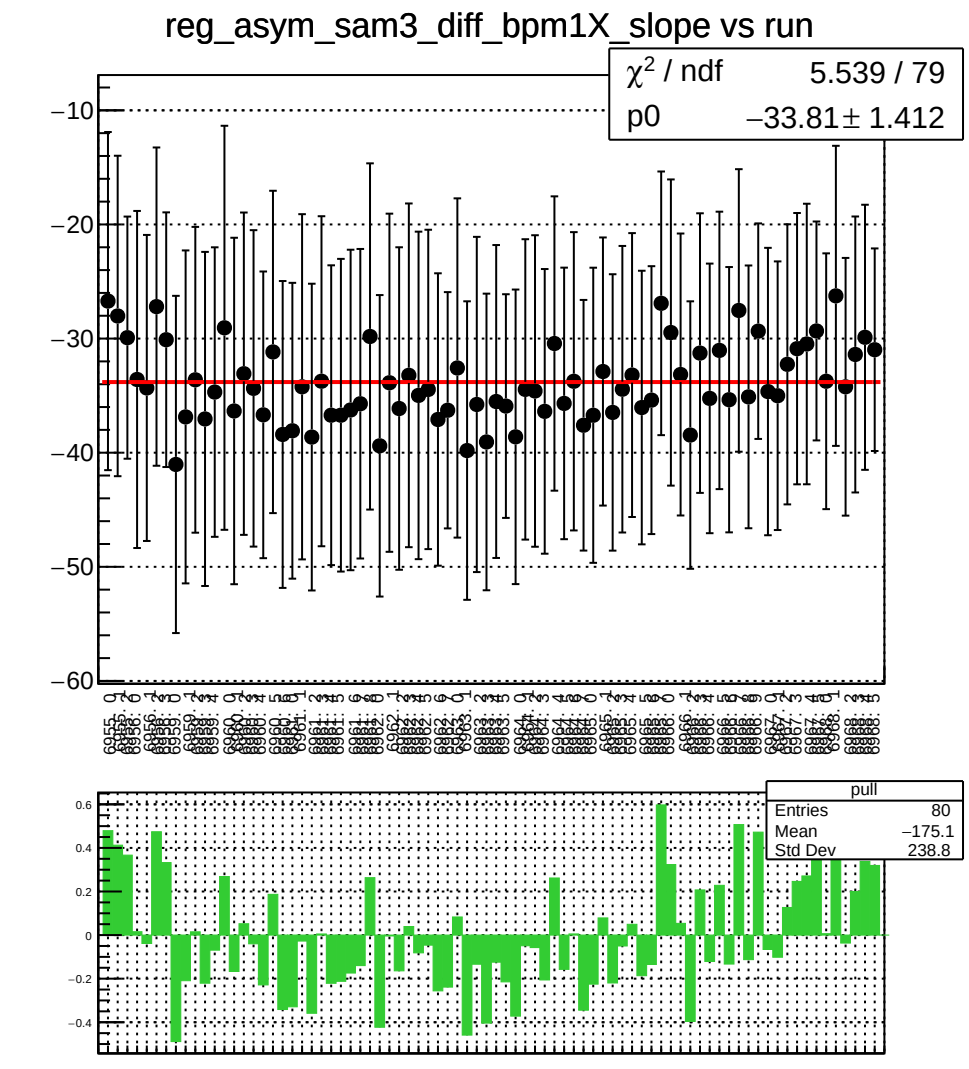

pull1D
Entries 80
Mean 0.0008542
Std Dev 0.2398

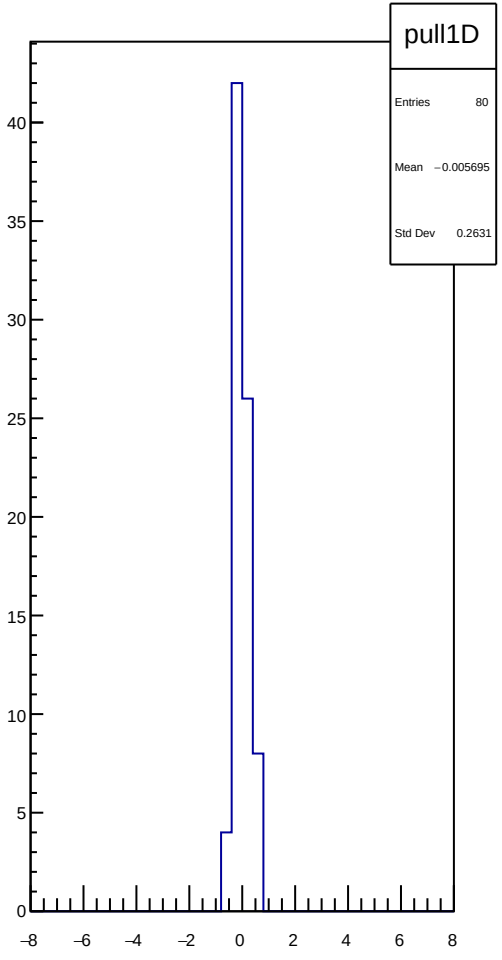

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 14.22 / 79
p0 −143.1± 2.34
pull
Entries 80
Mean 245.5
Std Dev 201.5

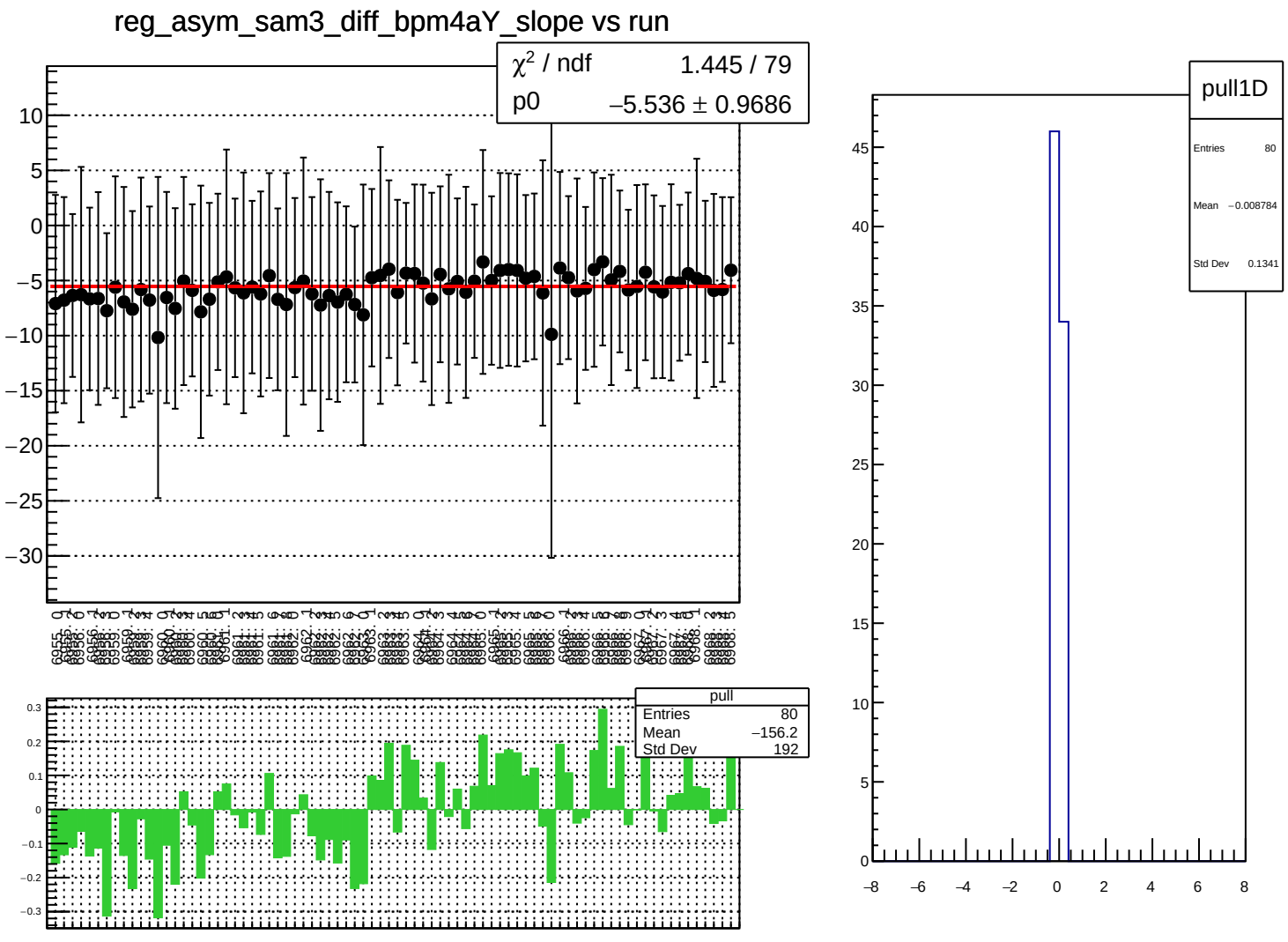

pull1D
Entries 80
Mean 0.02501
Std Dev 0.4209

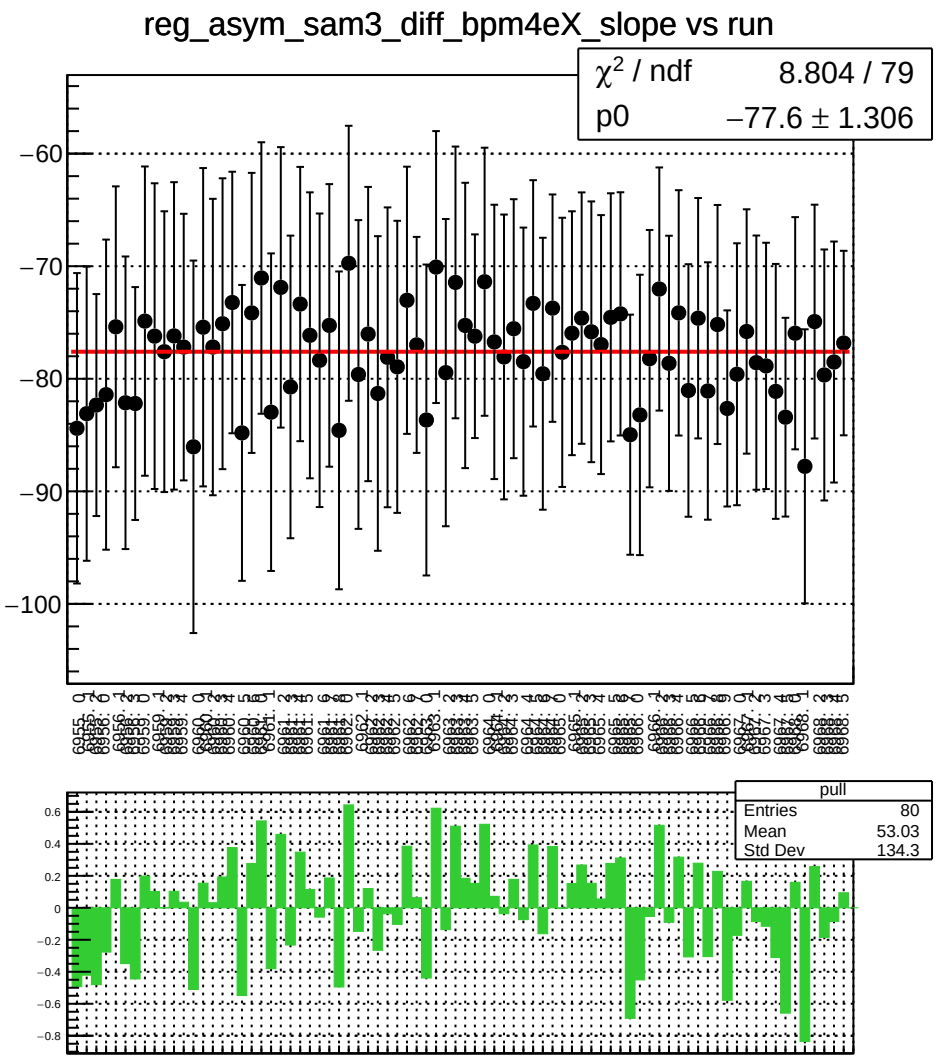

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 10.66 / 79
p0 2.15 ± 0.0913
pull
Entries 80
Mean −1315
Std Dev 1355

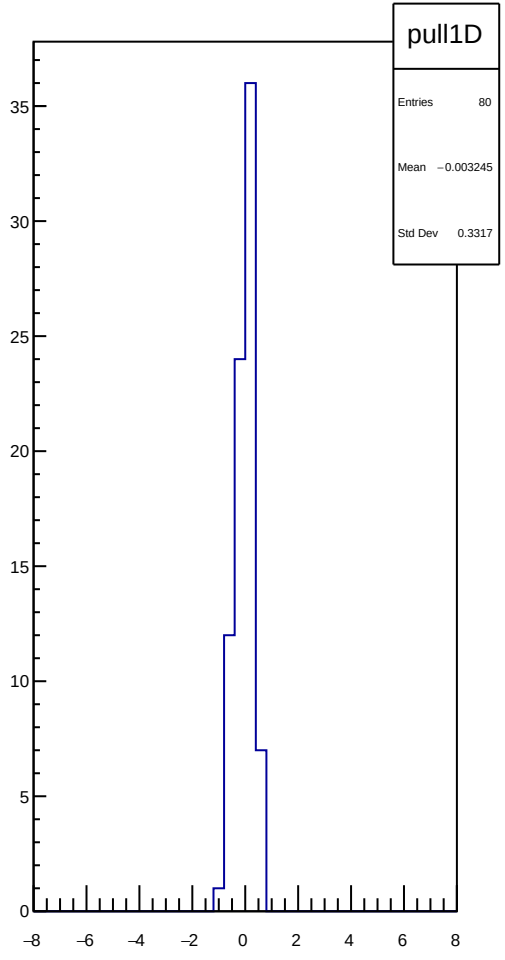

pull1D
Entries 80
Mean −0.00482
Std Dev 0.365

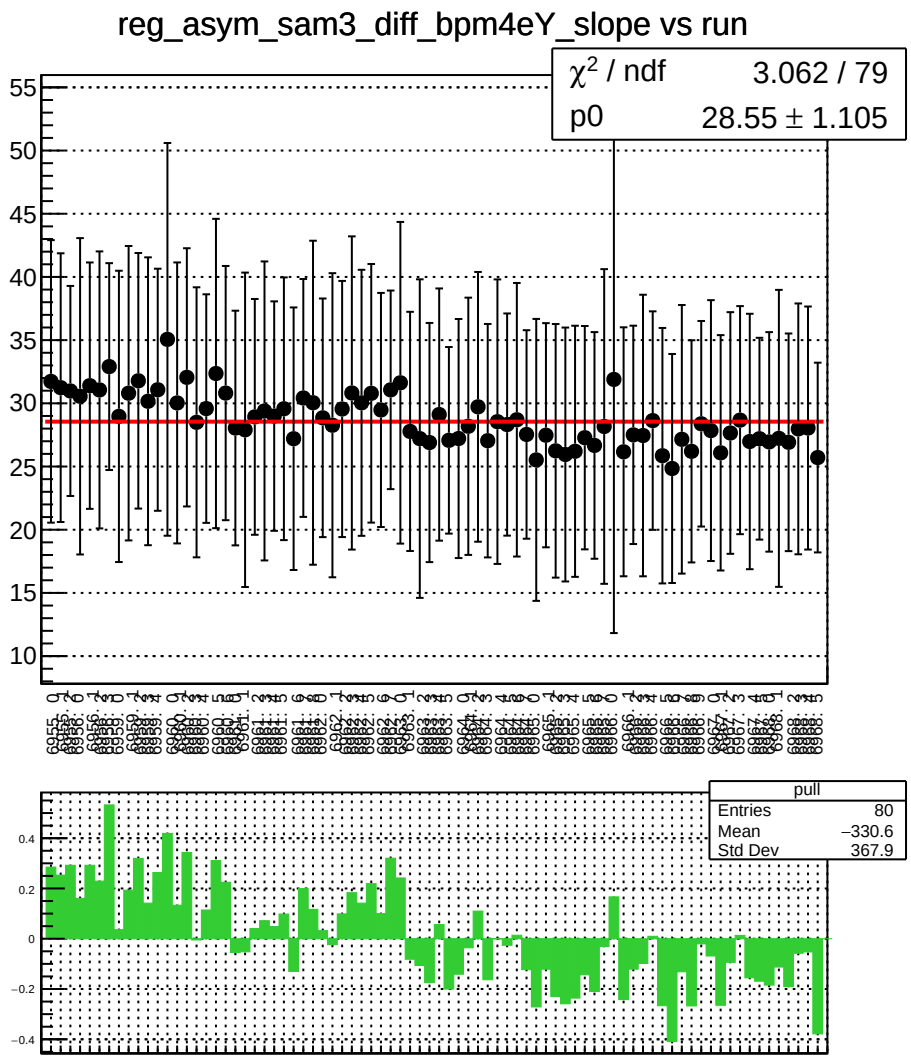

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 5.539 / 79
p0 −33.81 ± 1.412
pull
Entries 80
Mean −175.1
Std Dev 238.8

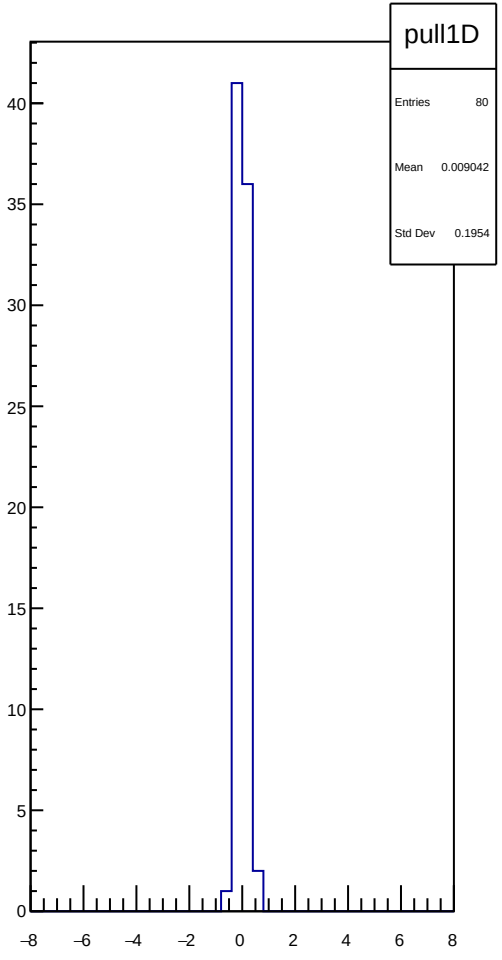

pull1D
Entries 80
Mean −0.005695
Std Dev 0.2631

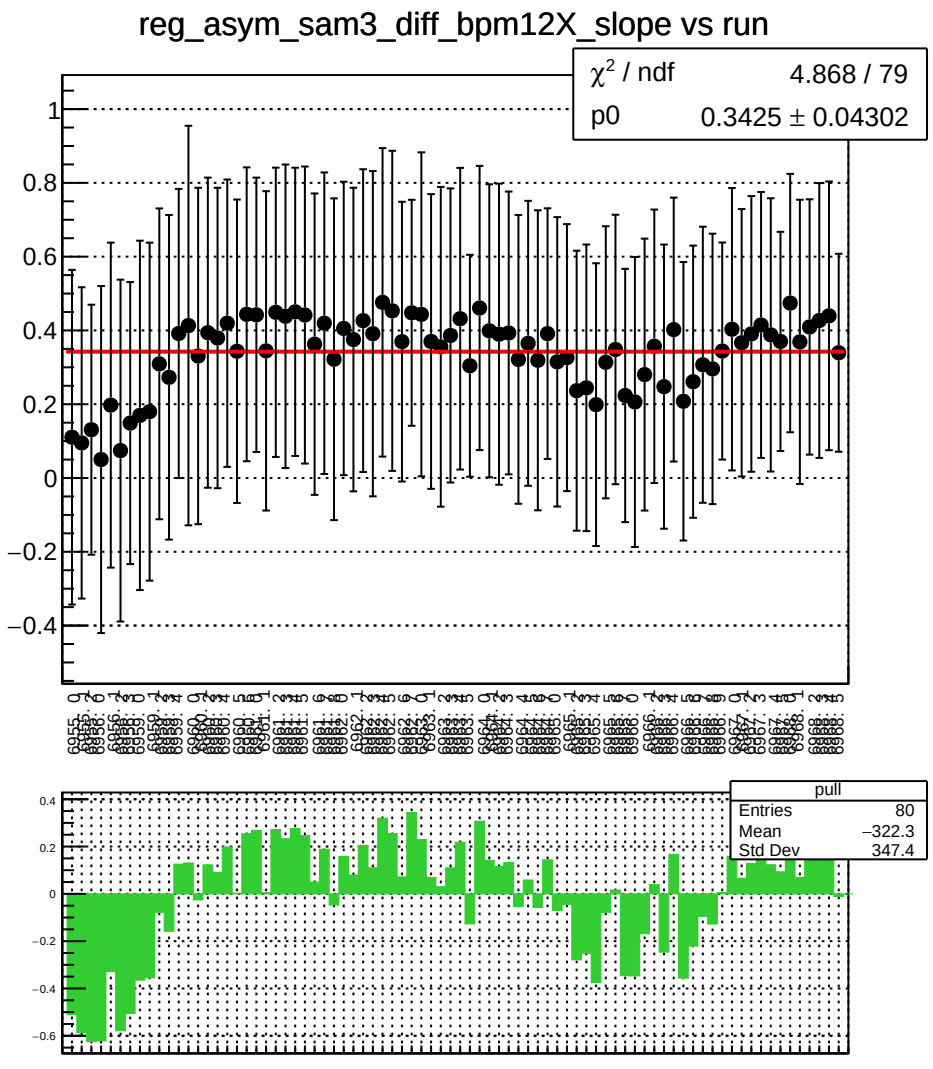

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.445 / 79
p0 −5.536 ± 0.9686
pull
Entries 80
Mean −156.2
Std Dev 192
pull1D
Entries 80
Mean −0.008784
Std Dev 0.1341

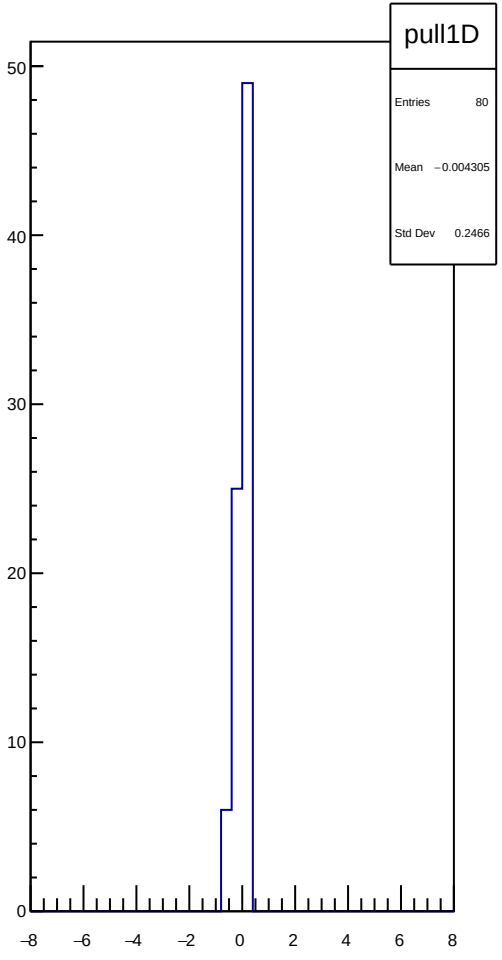

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 8.804 / 79
p0 −77.6 ± 1.306
−60
−70
−80
−90
−100
pull
Entries 80
Mean 53.03
Std Dev 134.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

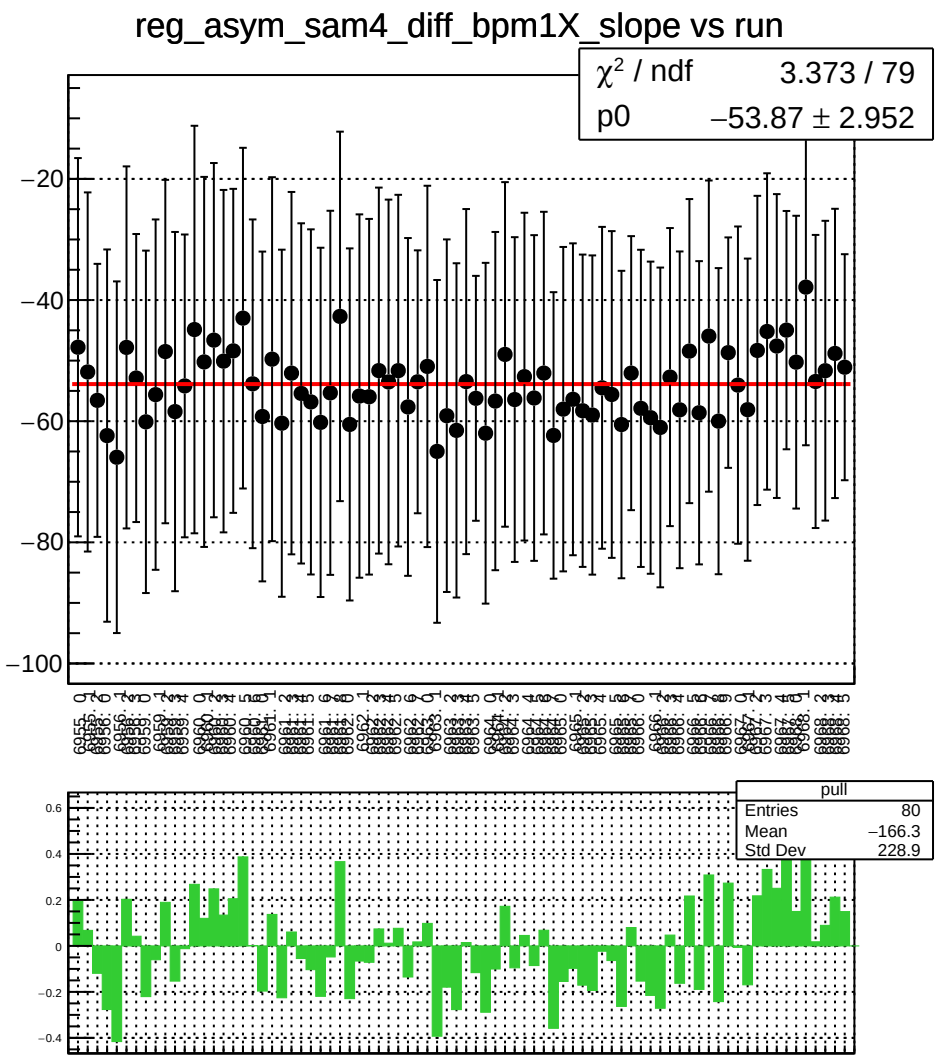

pull1D
Entries 80
Mean −0.003245
Std Dev 0.3317
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

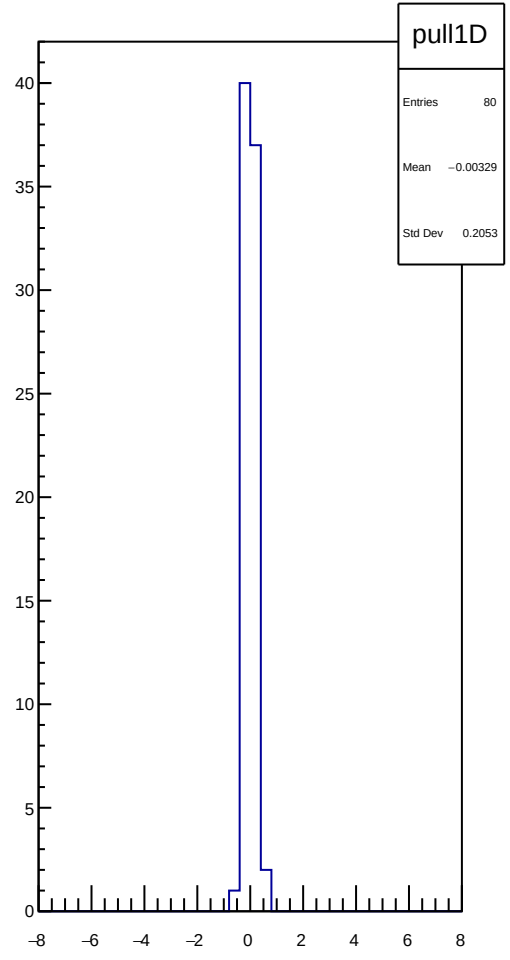

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 3.062 / 79
p0 28.55 ± 1.105
pull
Entries 80
Mean −330.6
Std Dev 367.9

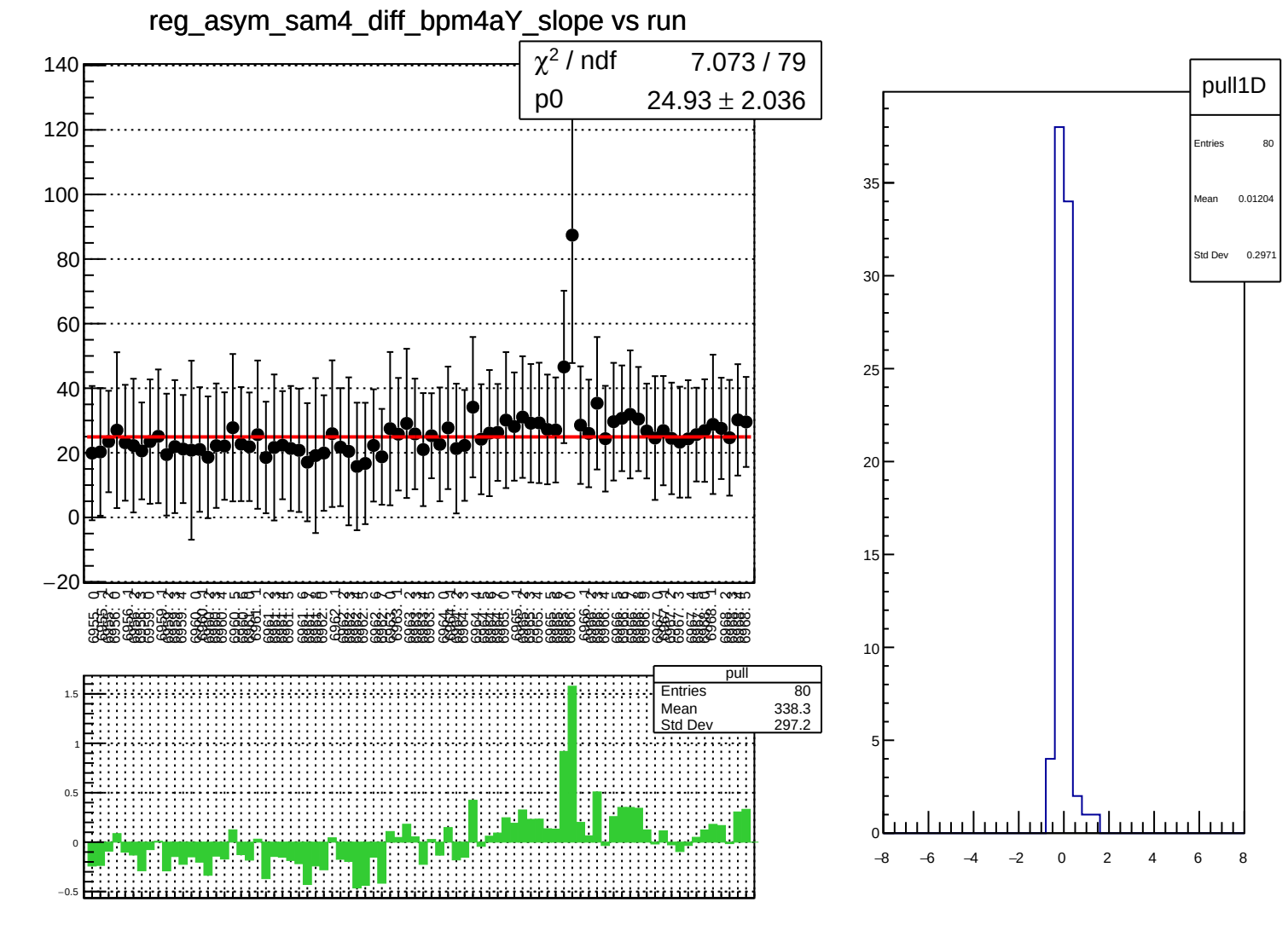

pull1D
Entries 80
Mean 0.009042
Std Dev 0.1954

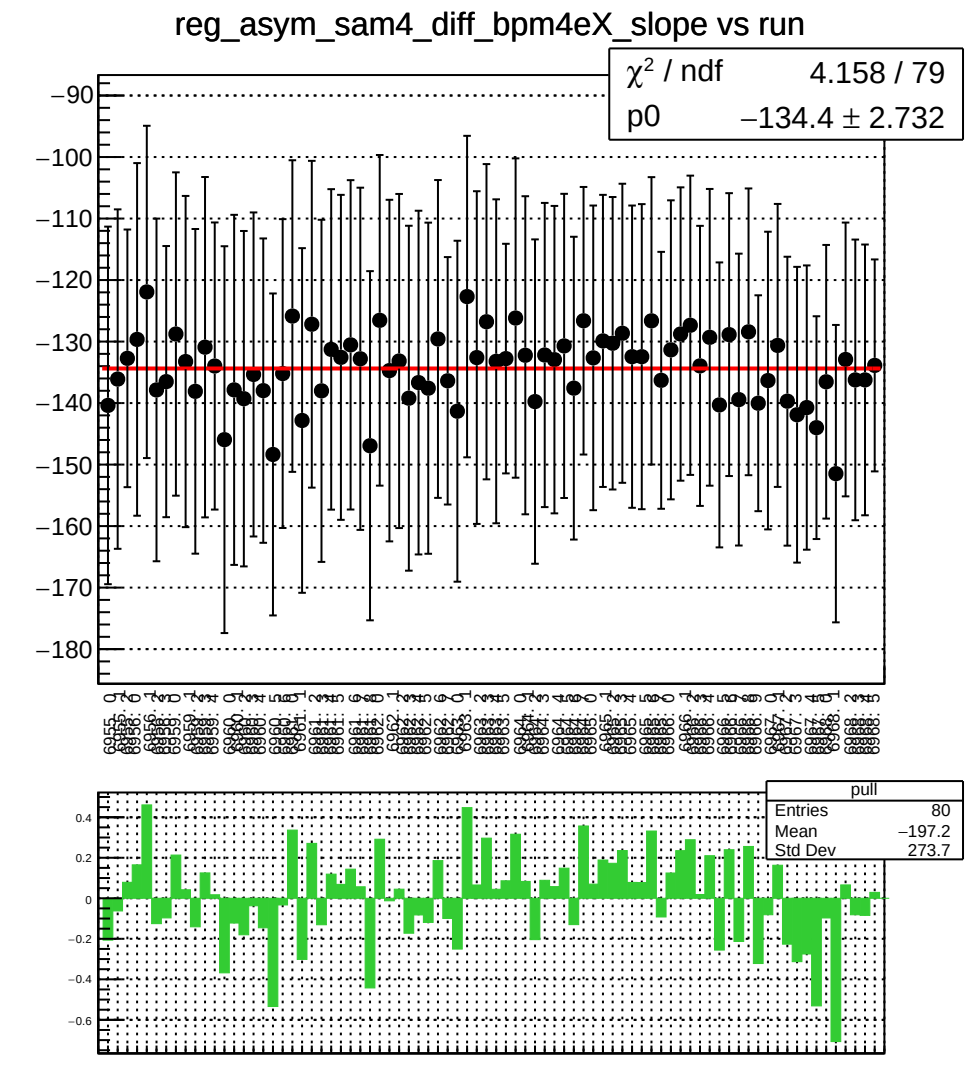

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 4.868 / 79
p0 0.3425 ± 0.04302
pull
Entries 80
Mean −322.3
Std Dev 347.4

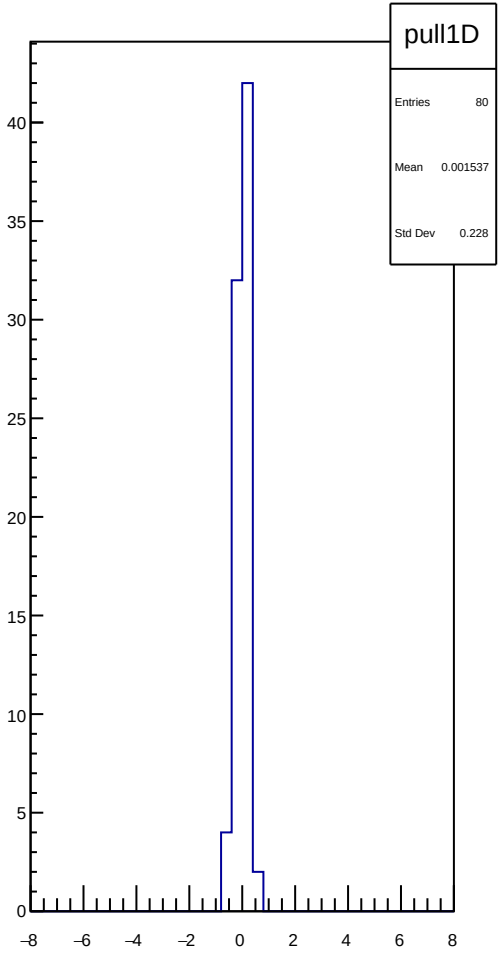

pull1D
Entries 80
Mean −0.004305
Std Dev 0.2466

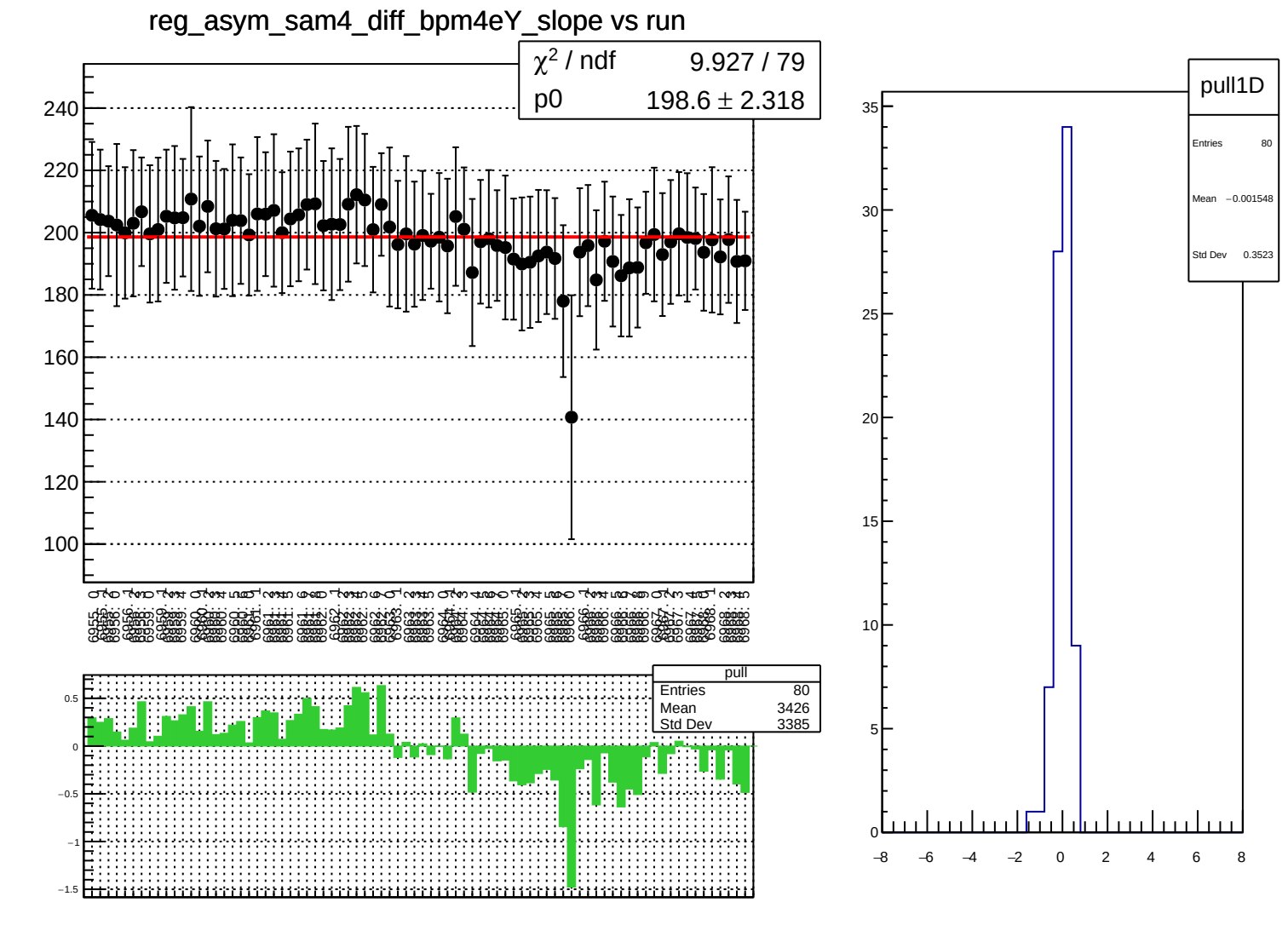

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 3.373 / 79
p0 −53.87 ± 2.952
pull
Entries 80
Mean −166.3
Std Dev 228.9

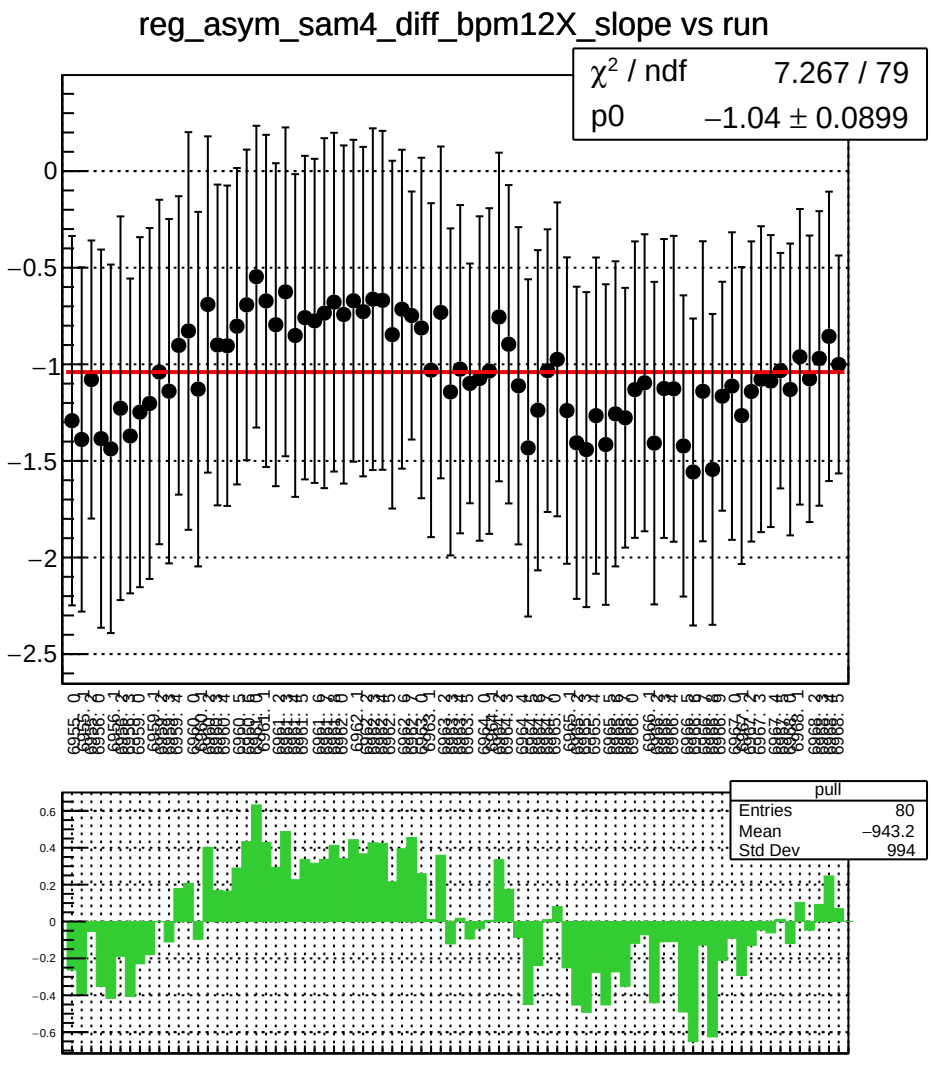

pull1D
Entries 80
Mean −0.00329
Std Dev 0.2053

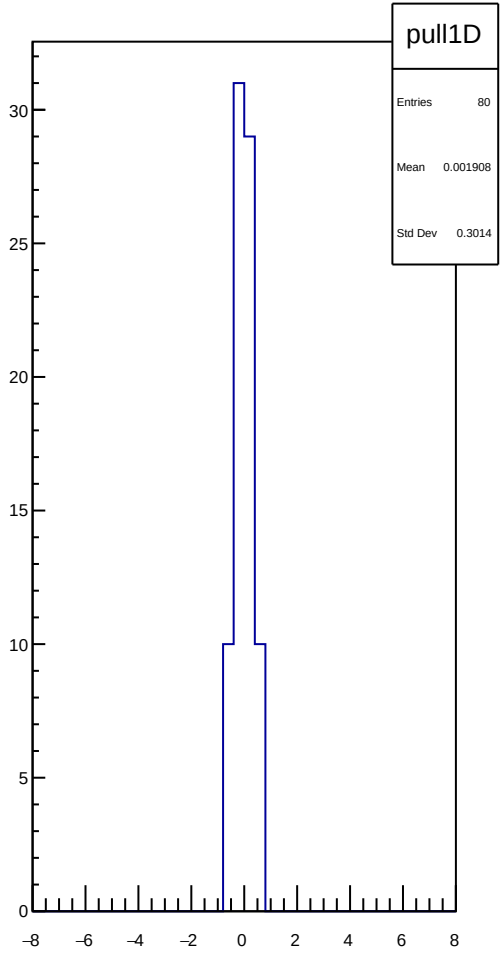

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 7.073 / 79
p0 24.93 ± 2.036
pull
Entries 80
Mean 338.3
Std Dev 297.2
pull1D
Entries 80
Mean 0.01204
Std Dev 0.2971

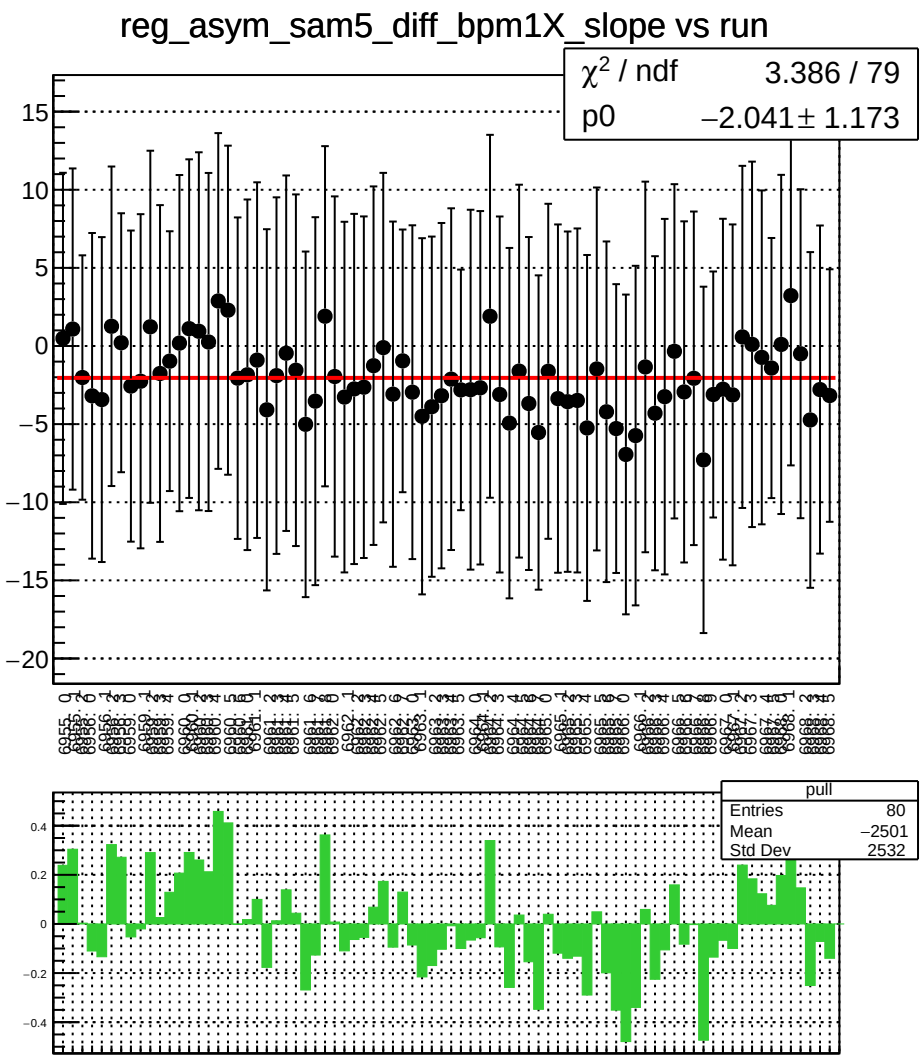

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 4.158 / 79
p0 −134.4 ± 2.732
pull
Entries 80
Mean −197.2
Std Dev 273.7

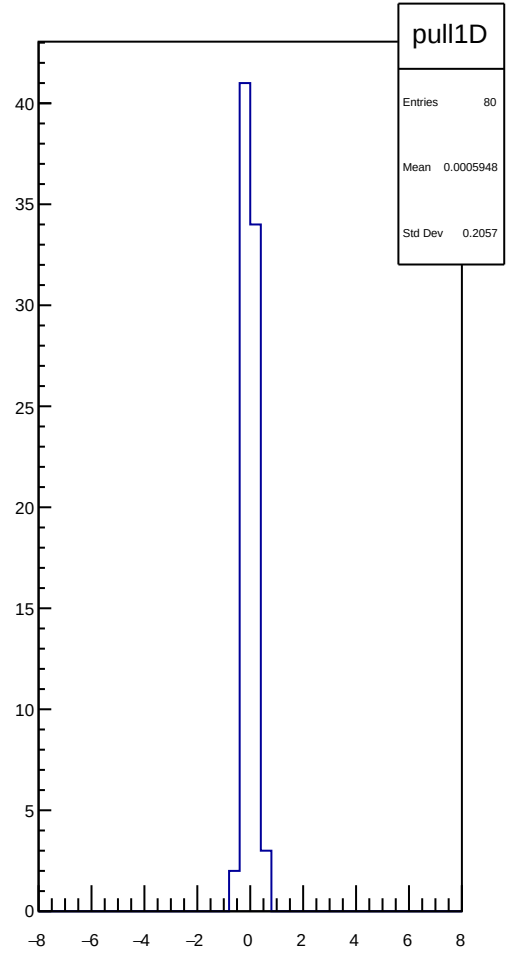

pull1D
Entries 80
Mean 0.001537
Std Dev 0.228

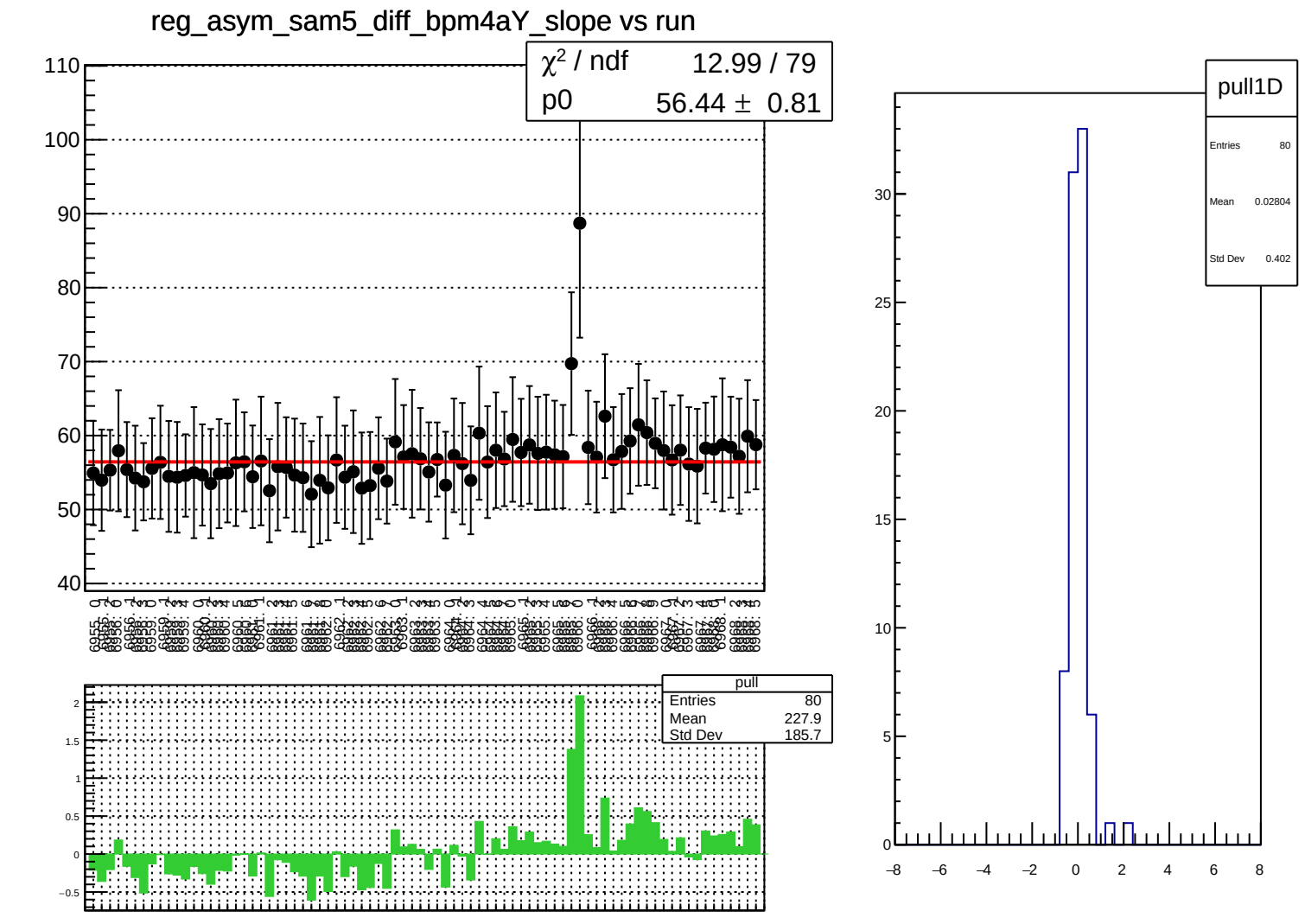

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 9.927 / 79
p0 198.6 ± 2.318
pull
Entries 80
Mean 3426
Std Dev 3385
pull1D
Entries 80
Mean −0.001548
Std Dev 0.3523

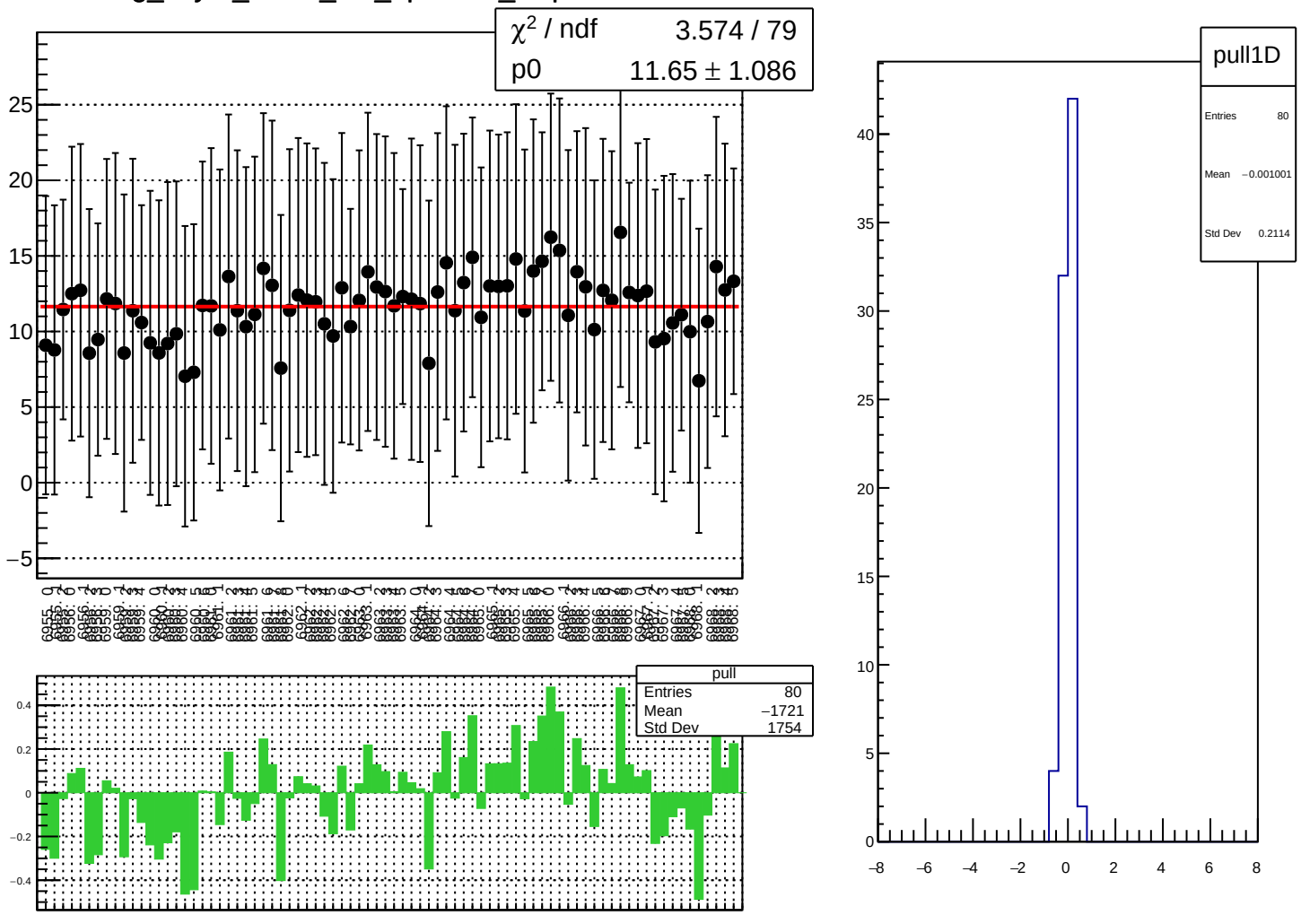

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 7.267 / 79
p0 −1.04 ± 0.0899
pull
Entries 80
Mean −943.2
Std Dev 994

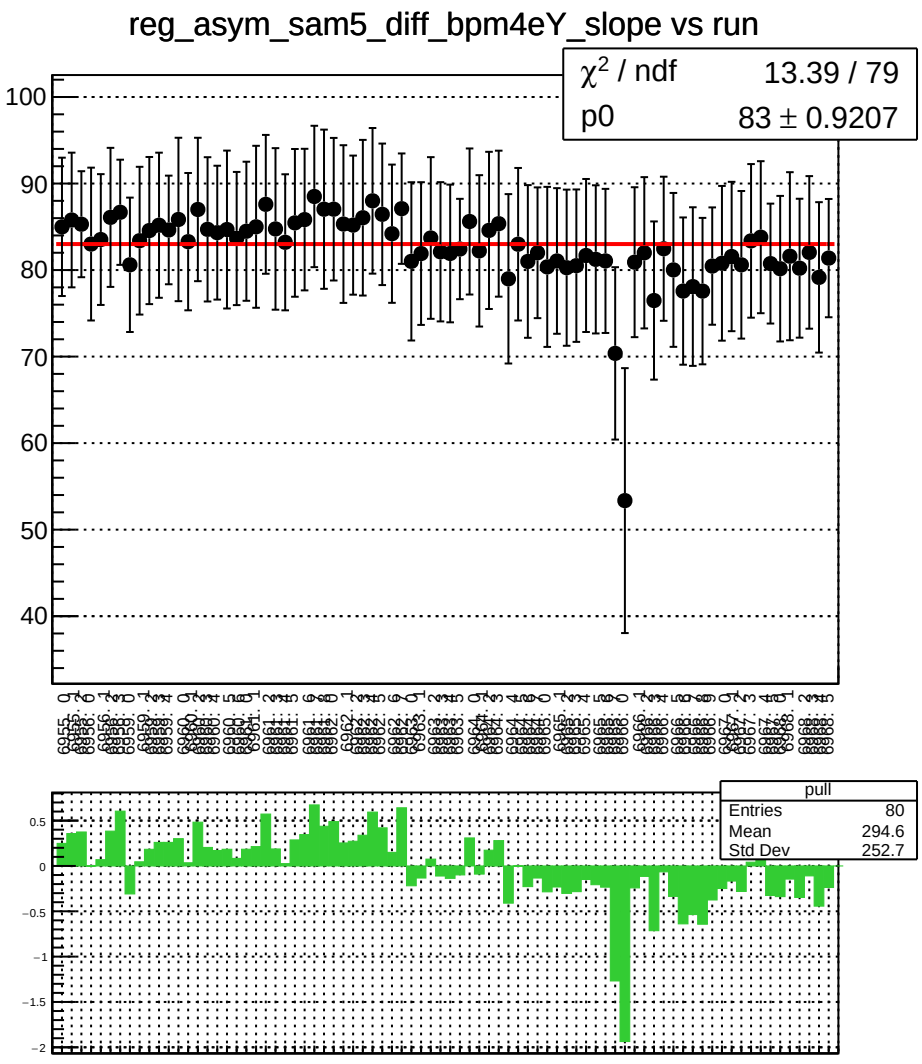

pull1D
Entries 80
Mean 0.001908
Std Dev 0.3014

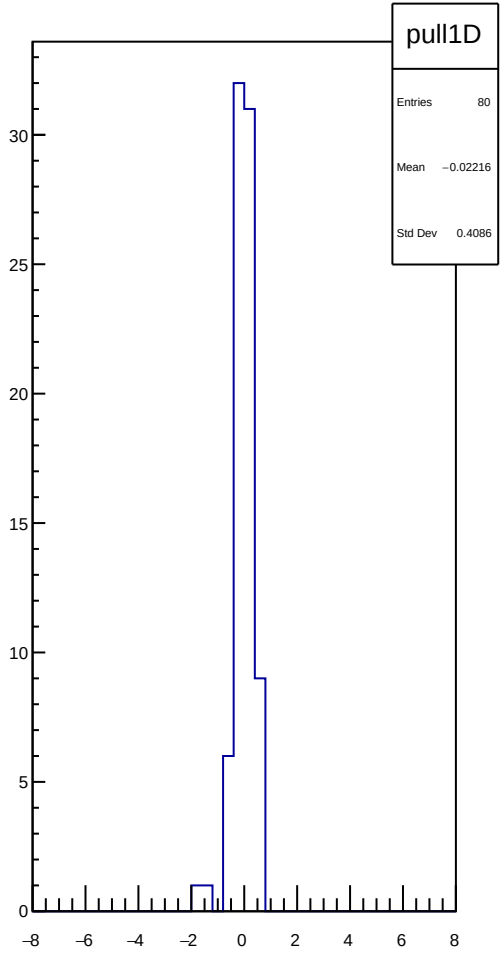

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 3.386 / 79
p0 −2.041 ± 1.173
pull
Entries 80
Mean −2501
Std Dev 2532

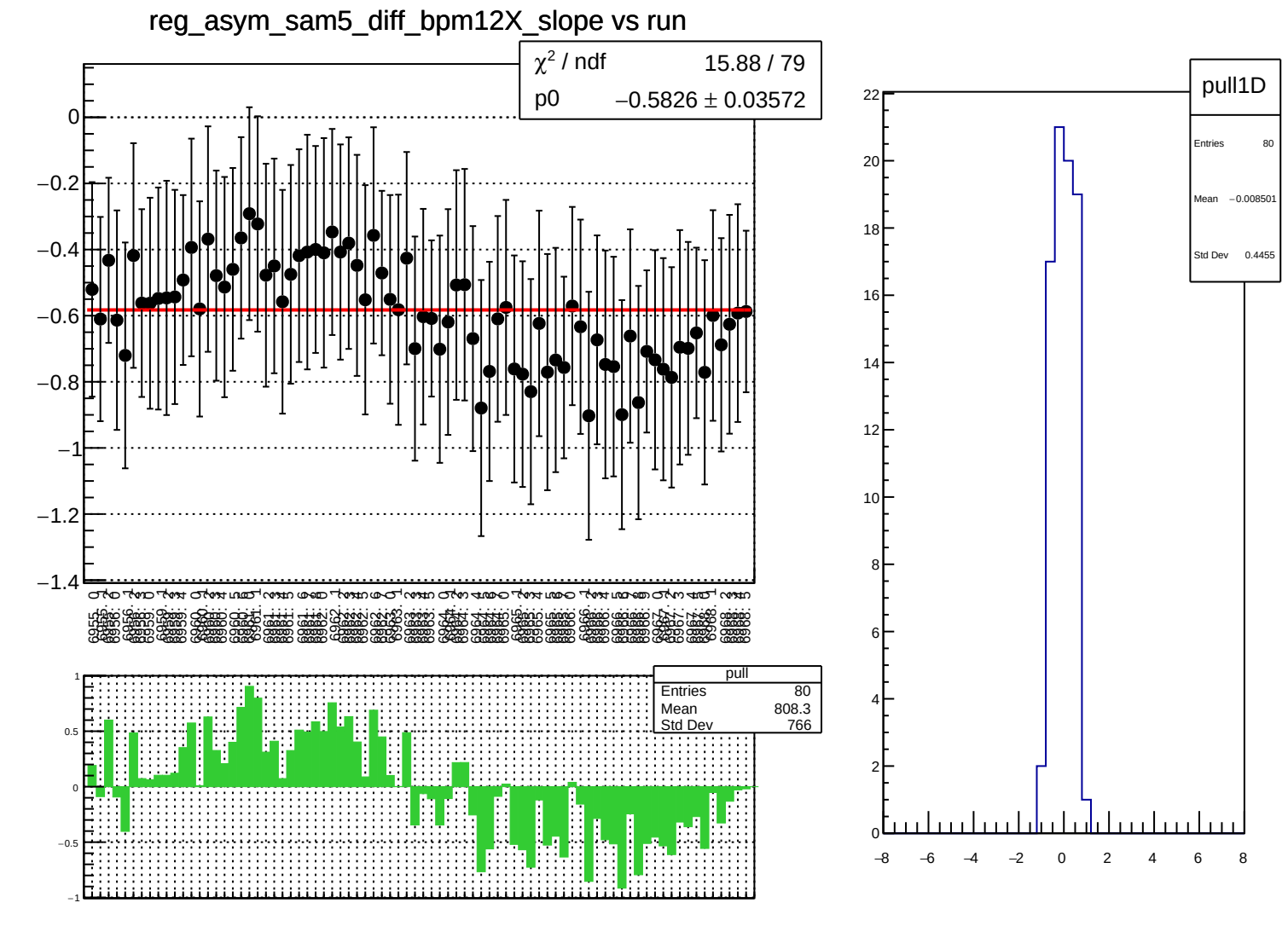

pull1D
Entries 80
Mean 0.0005948
Std Dev 0.2057

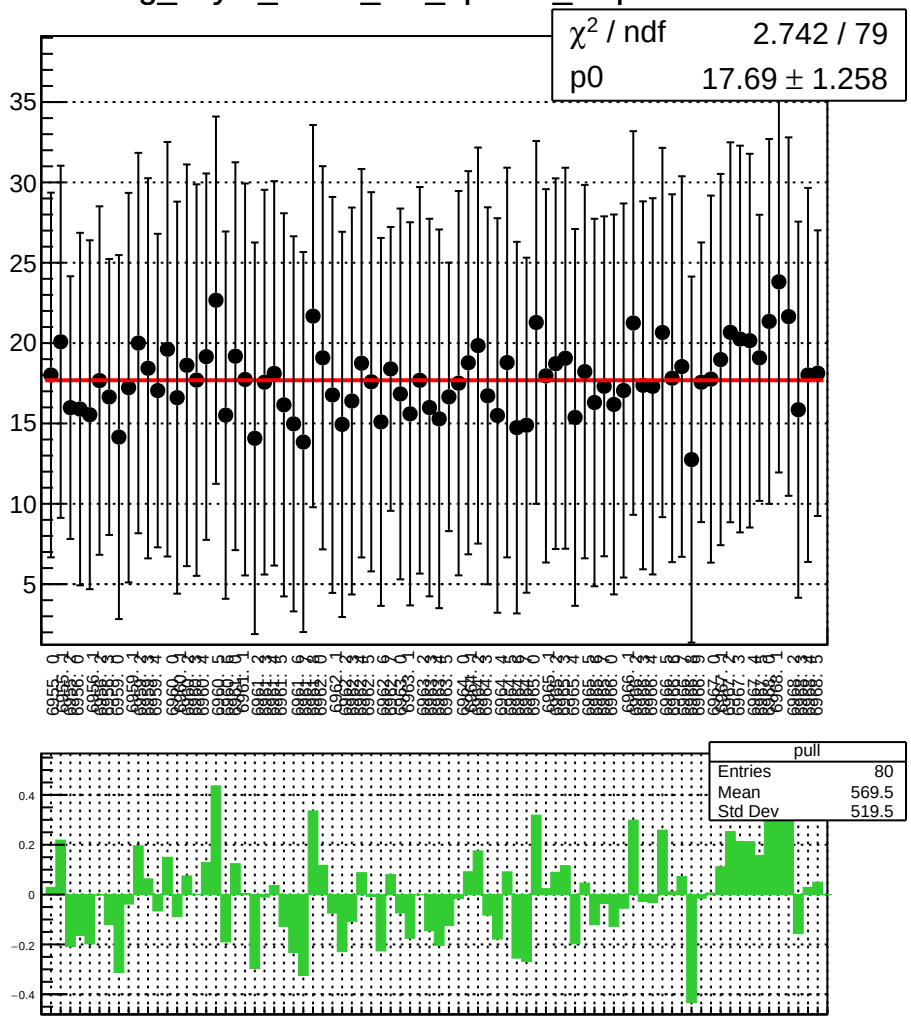

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 12.99 / 79
p0 56.44 ± 0.81
pull
Entries 80
Mean 227.9
Std Dev 185.7
pull1D
Entries 80
Mean 0.02804
Std Dev 0.402

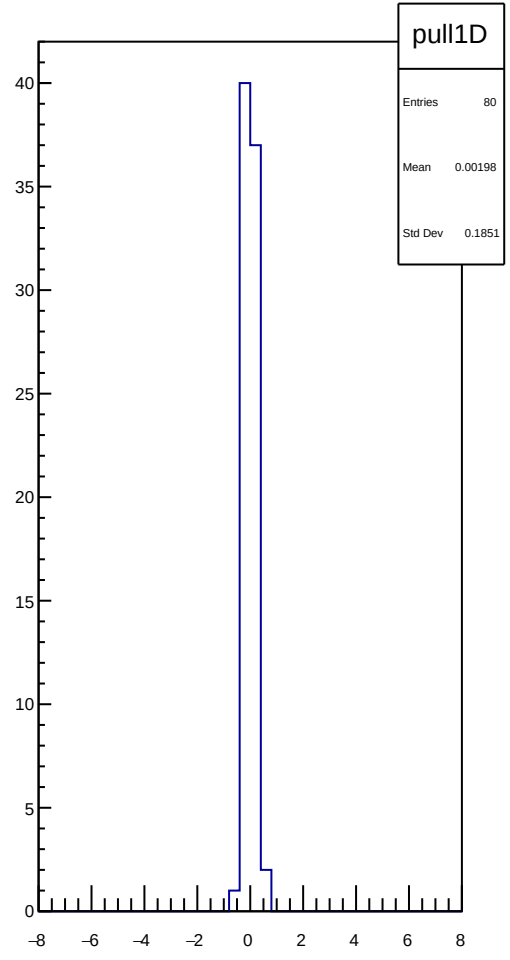

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 3.574 / 79
p0 11.65 ± 1.086
pull
Entries 80
Mean −1721
Std Dev 1754
pull1D
Entries 80
Mean −0.001001
Std Dev 0.2114

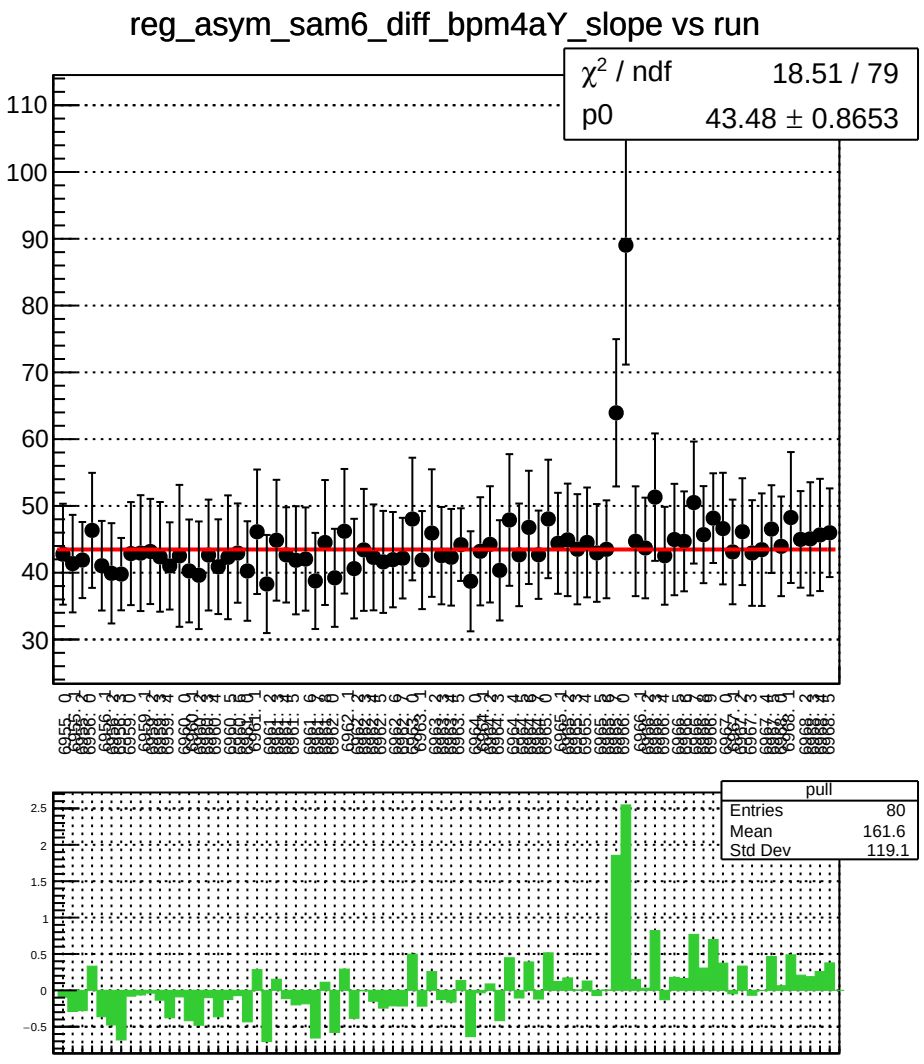

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 13.39 / 79
p0 83 ± 0.9207
pull
Entries 80
Mean 294.6
Std Dev 252.7

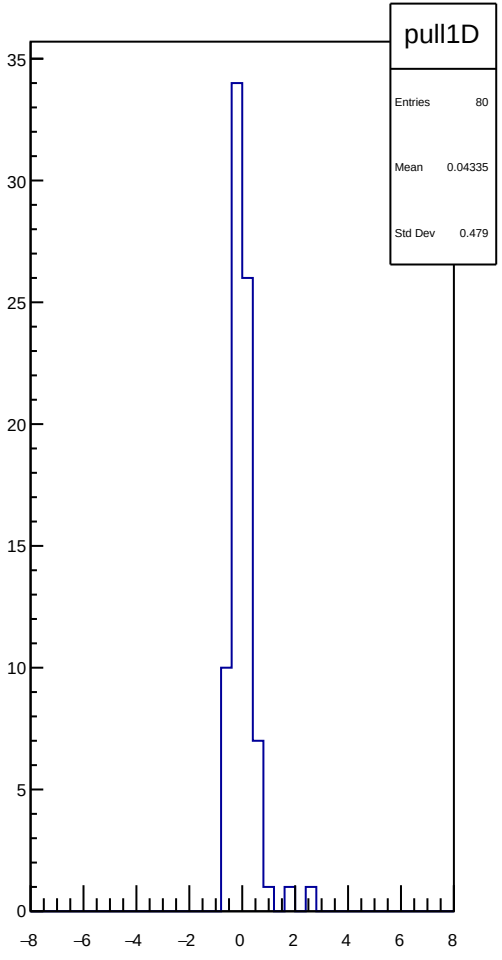

pull1D
Entries 80
Mean −0.02216
Std Dev 0.4086

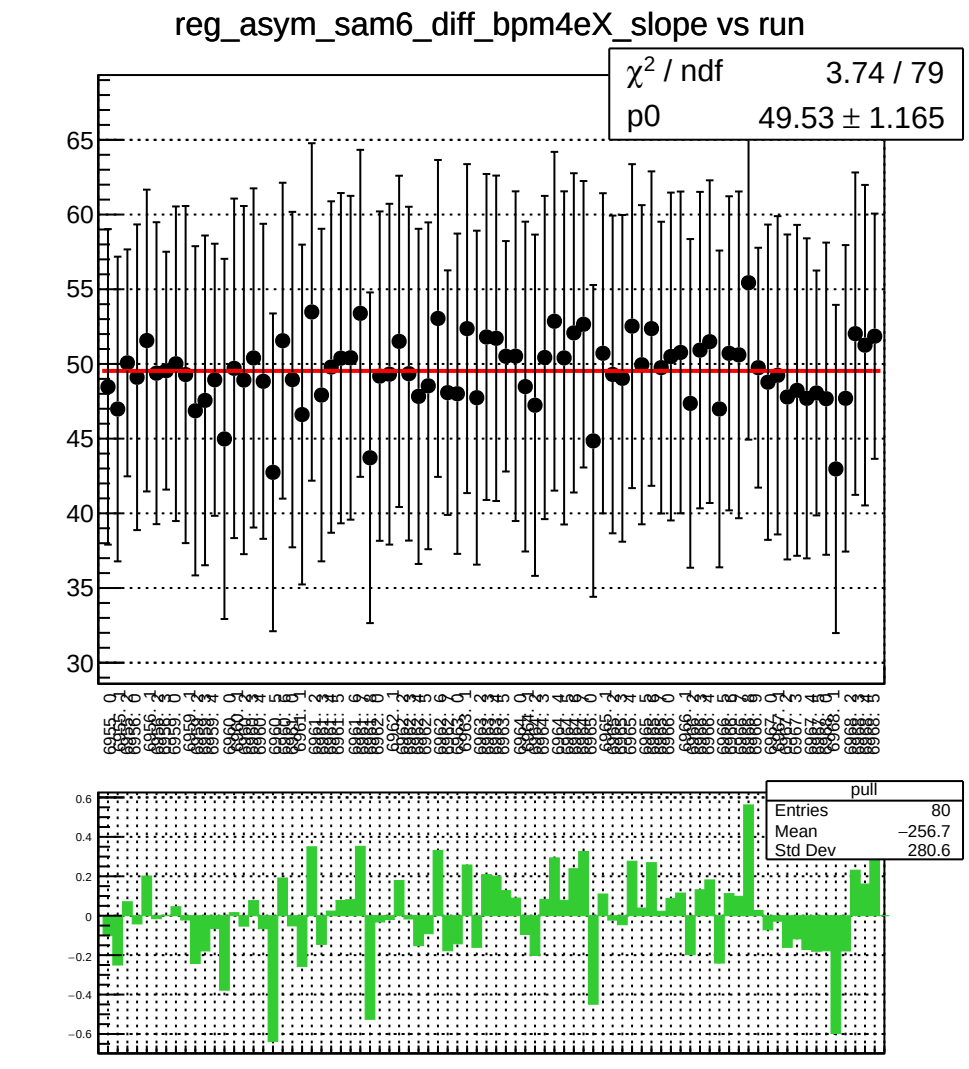

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 15.88 / 79
p0 −0.5826 ± 0.03572
pull
Entries 80
Mean 808.3
Std Dev 766
pull1D
Entries 80
Mean −0.008501
Std Dev 0.4455

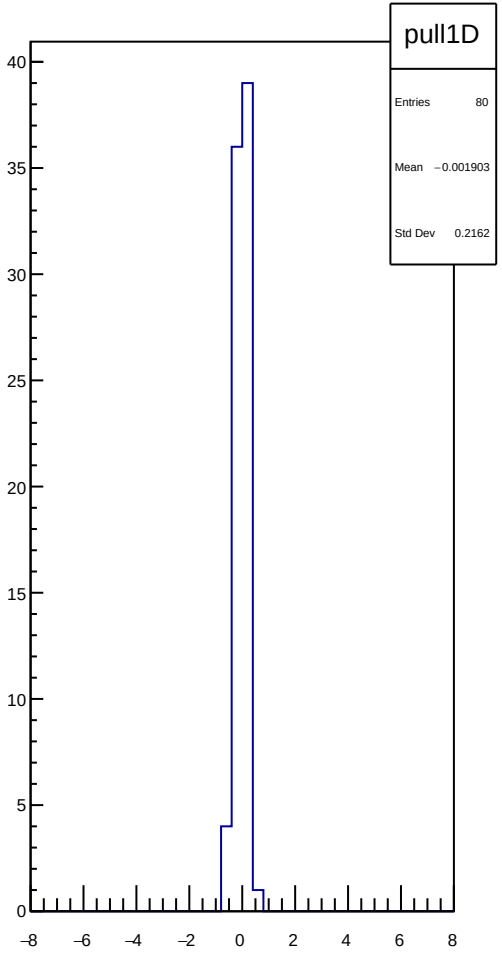

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 2.742 / 79
p0 17.69 ± 1.258
pull
Entries 80
Mean 569.5
Std Dev 519.5

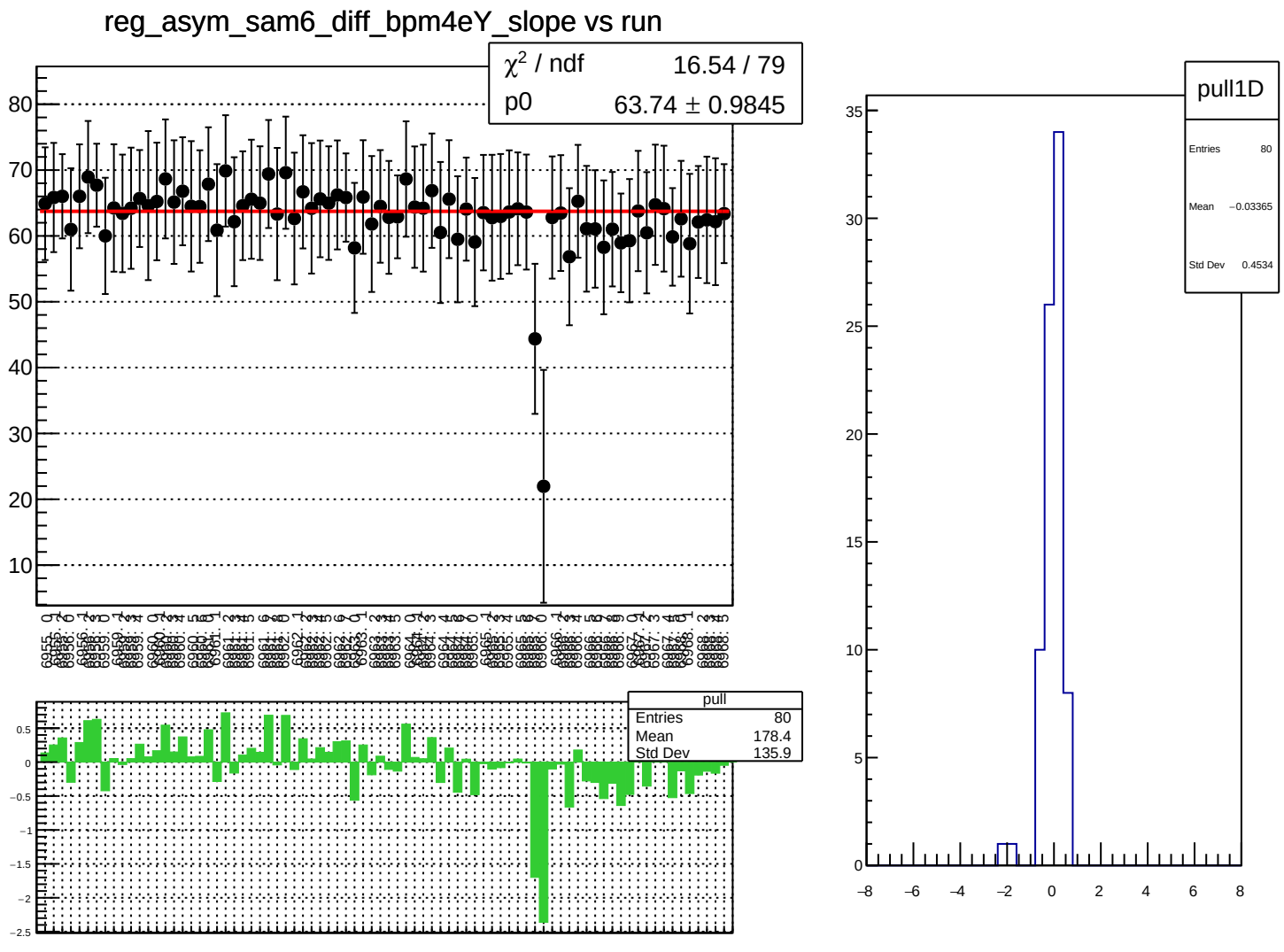

pull1D
Entries 80
Mean 0.00198
Std Dev 0.1851

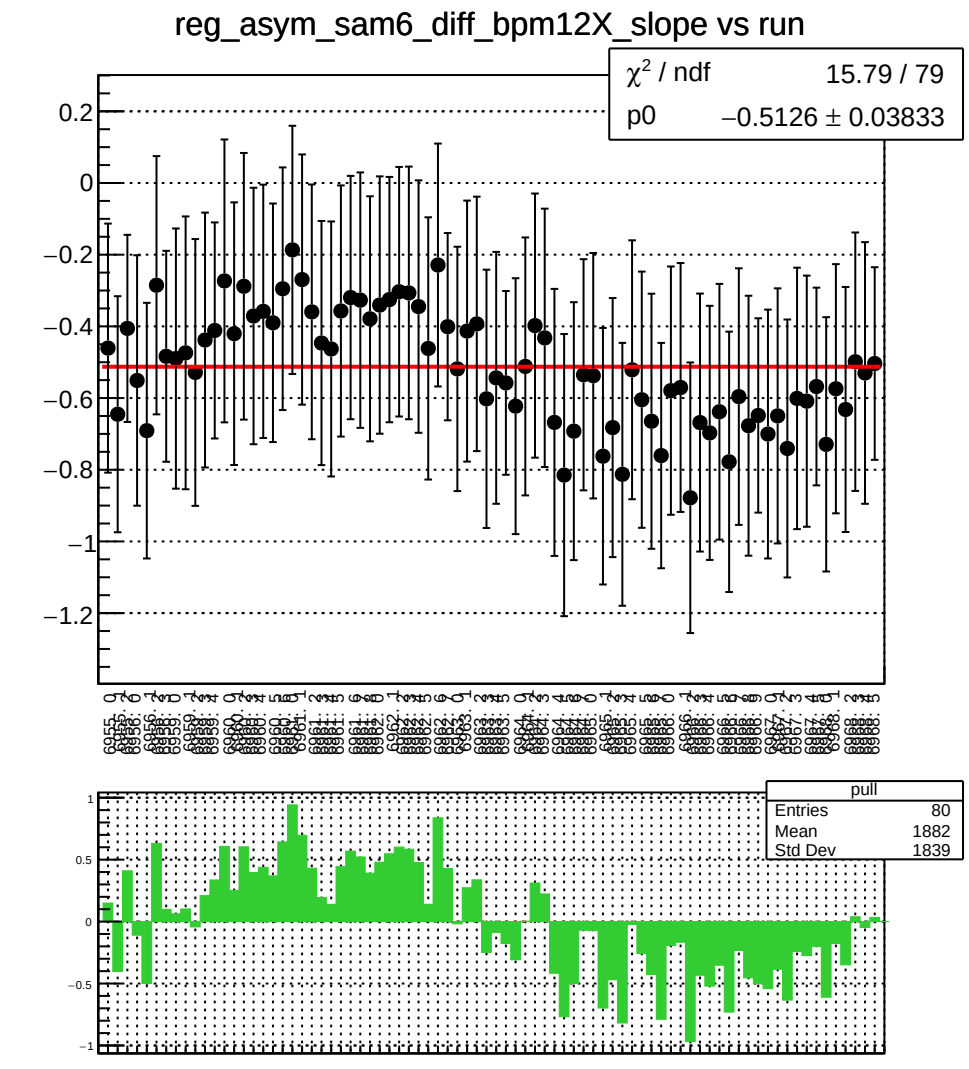

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 18.51 / 79
p0 43.48 ± 0.8653
pull
Entries 80
Mean 161.6
Std Dev 119.1

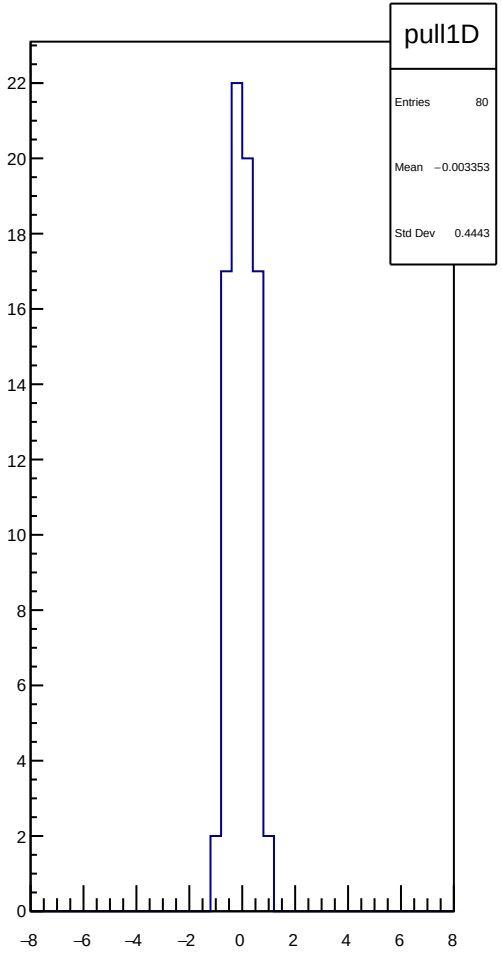

pull1D
Entries 80
Mean 0.04335
Std Dev 0.479

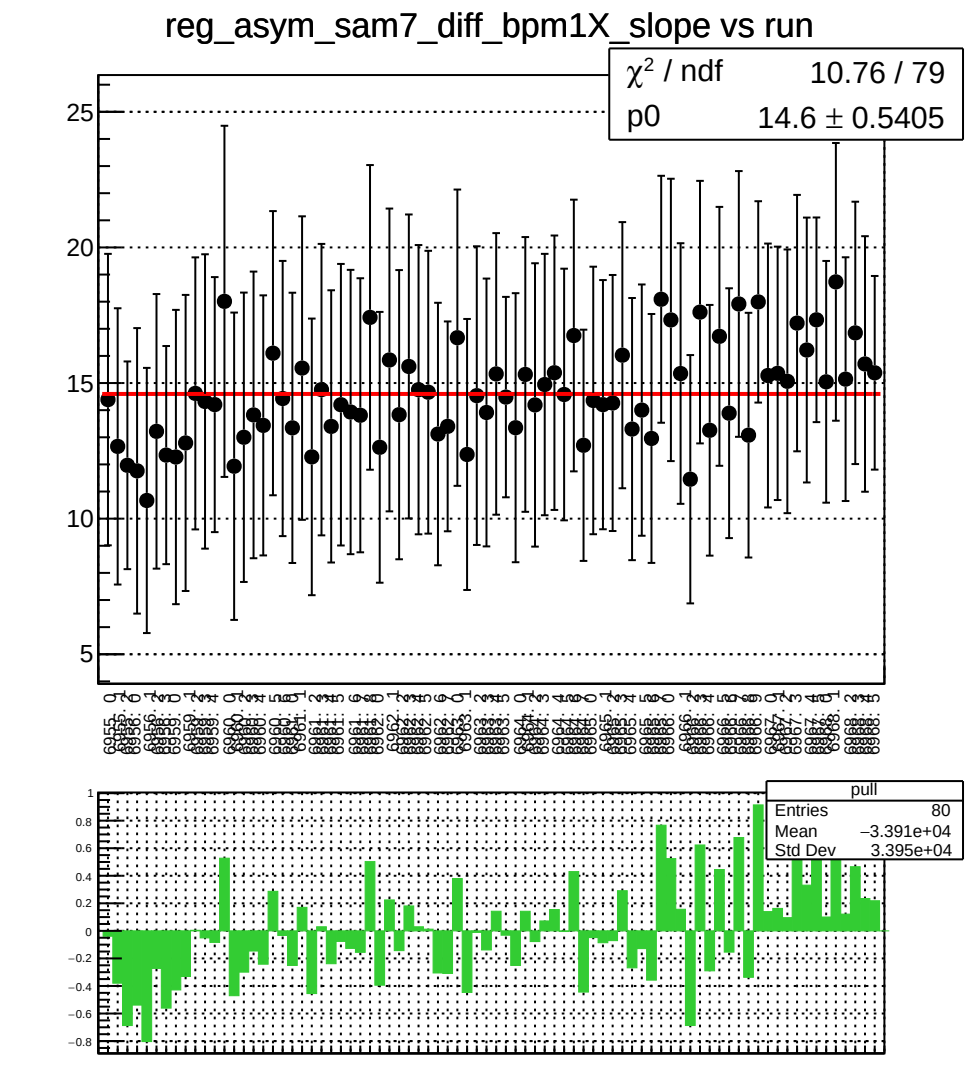

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 3.74 / 79
p0 49.53 ± 1.165
pull
Entries 80
Mean −256.7
Std Dev 280.6

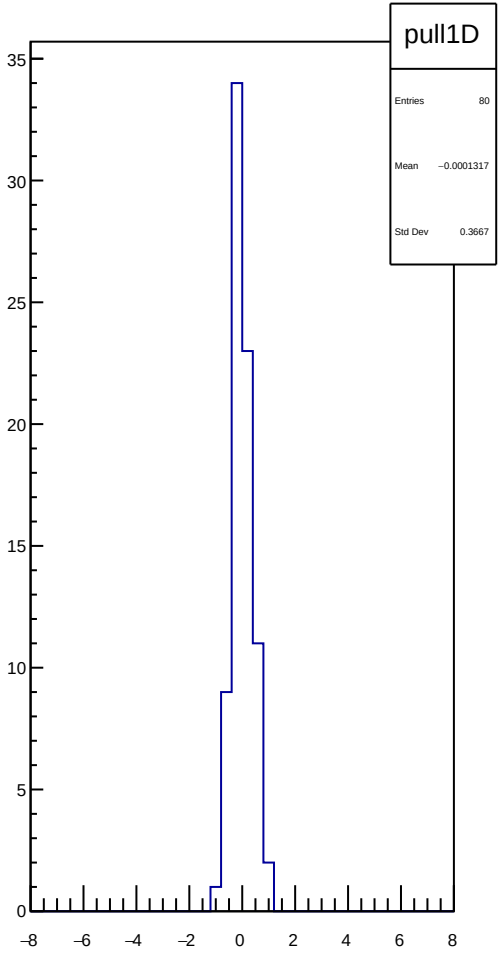

pull1D
Entries 80
Mean −0.001903
Std Dev 0.2162

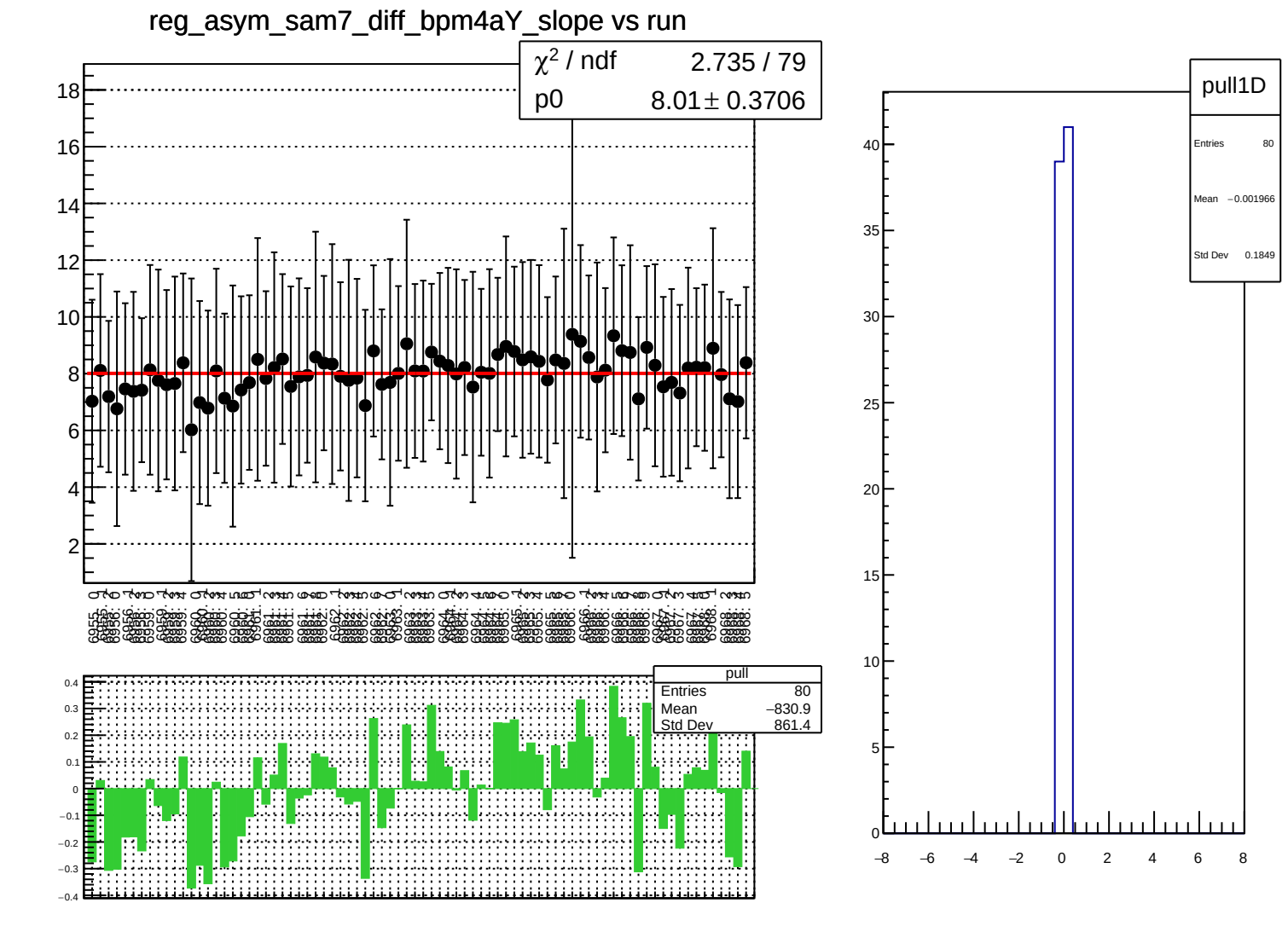

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 16.54 / 79
p0 63.74 ± 0.9845
pull
Entries 80
Mean 178.4
Std Dev 135.9
pull1D
Entries 80
Mean −0.03365
Std Dev 0.4534

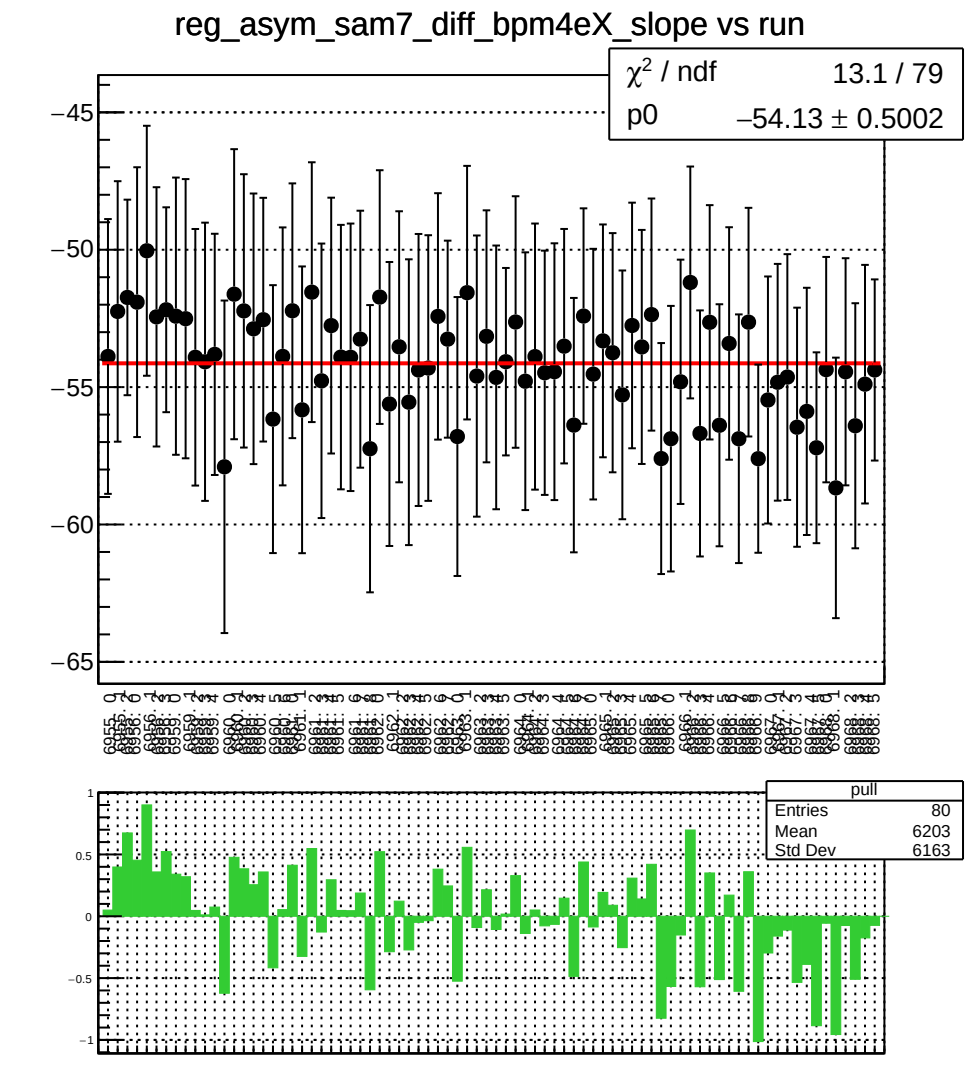

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 15.79 / 79
p0 −0.5126 ± 0.03833
pull
Entries 80
Mean 1882
Std Dev 1839

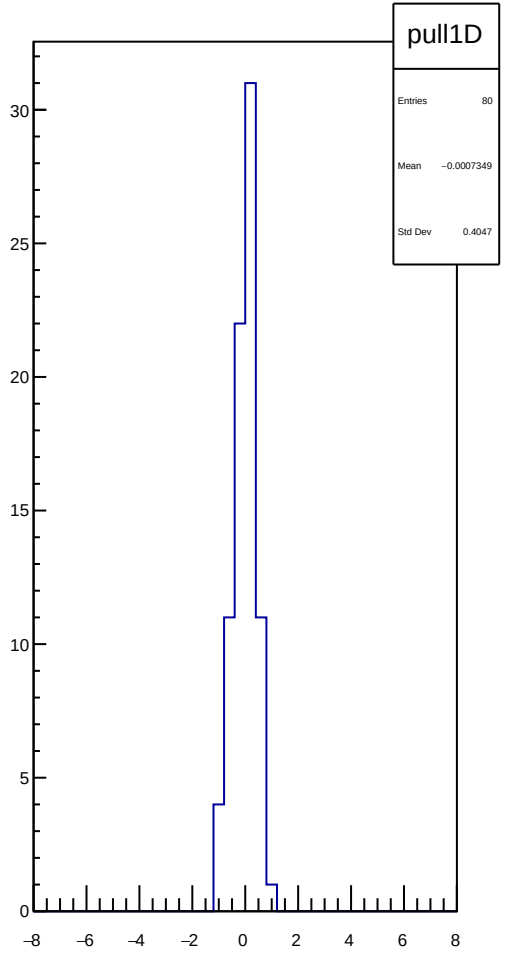

pull1D
Entries 80
Mean −0.003353
Std Dev 0.4443

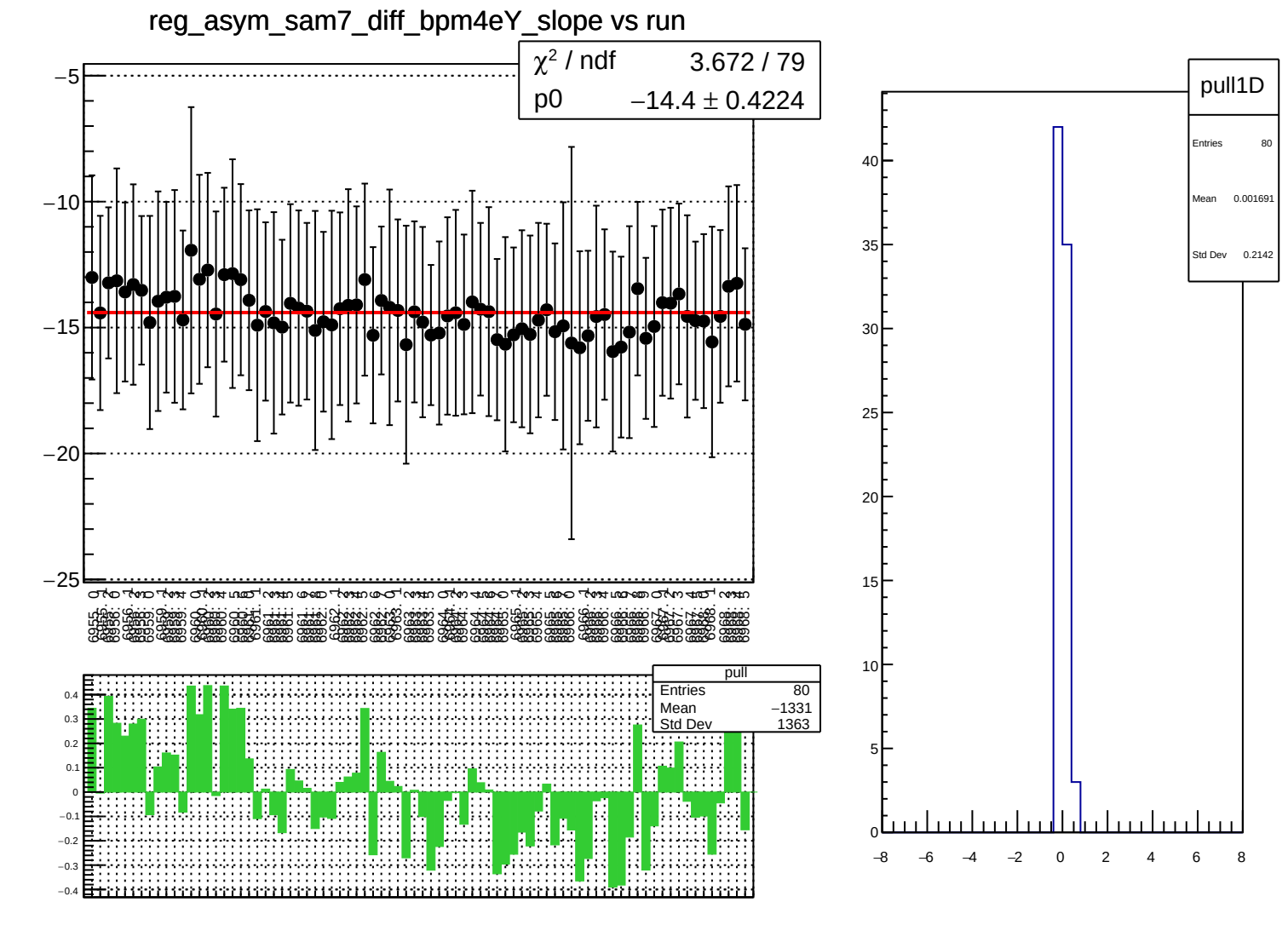

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 10.76 / 79
p0 14.6 ± 0.5405
pull
Entries 80
Mean −3.391e+04
Std Dev 3.395e+04

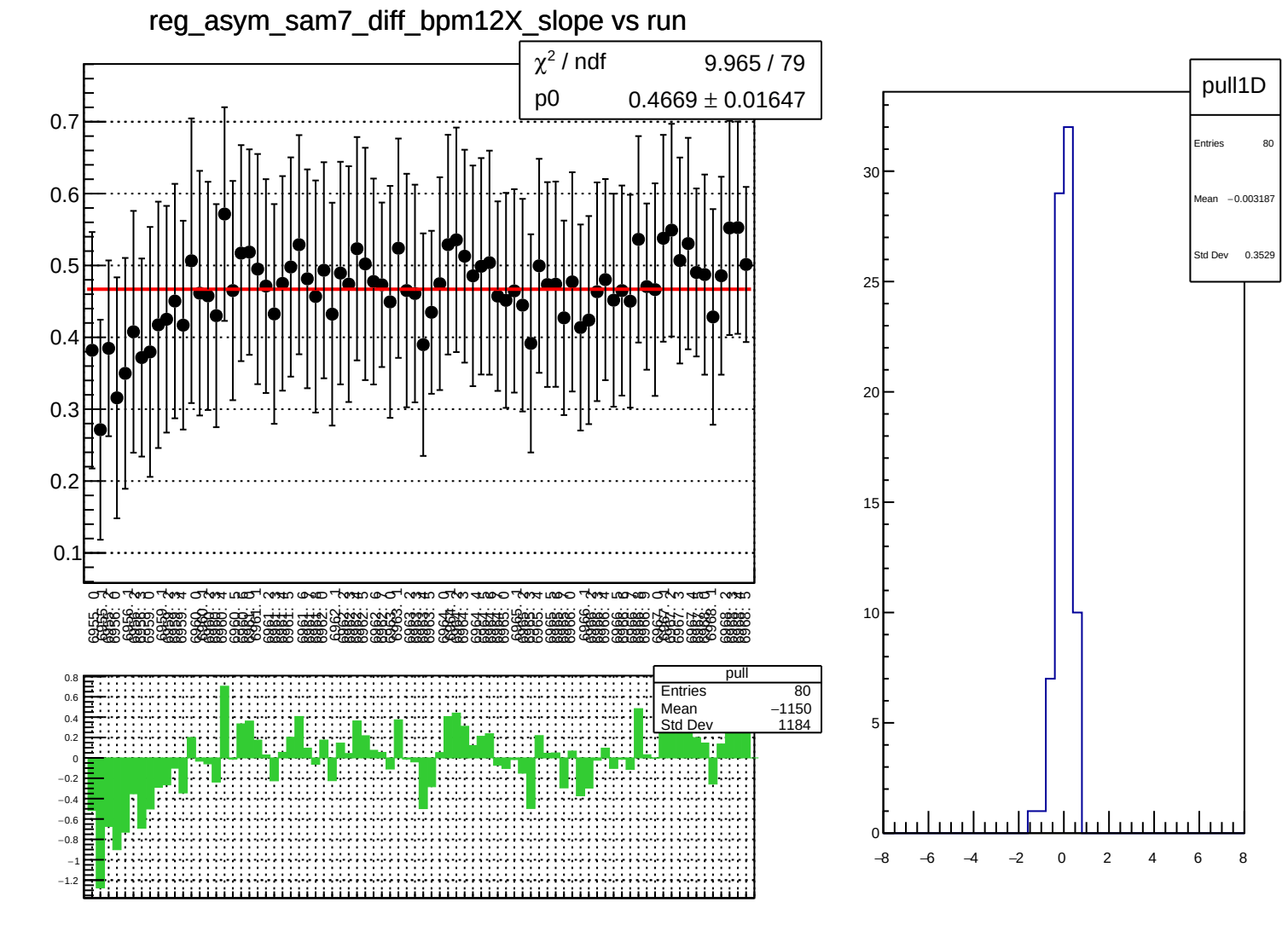

pull1D
Entries 80
Mean −0.0001317
Std Dev 0.3667

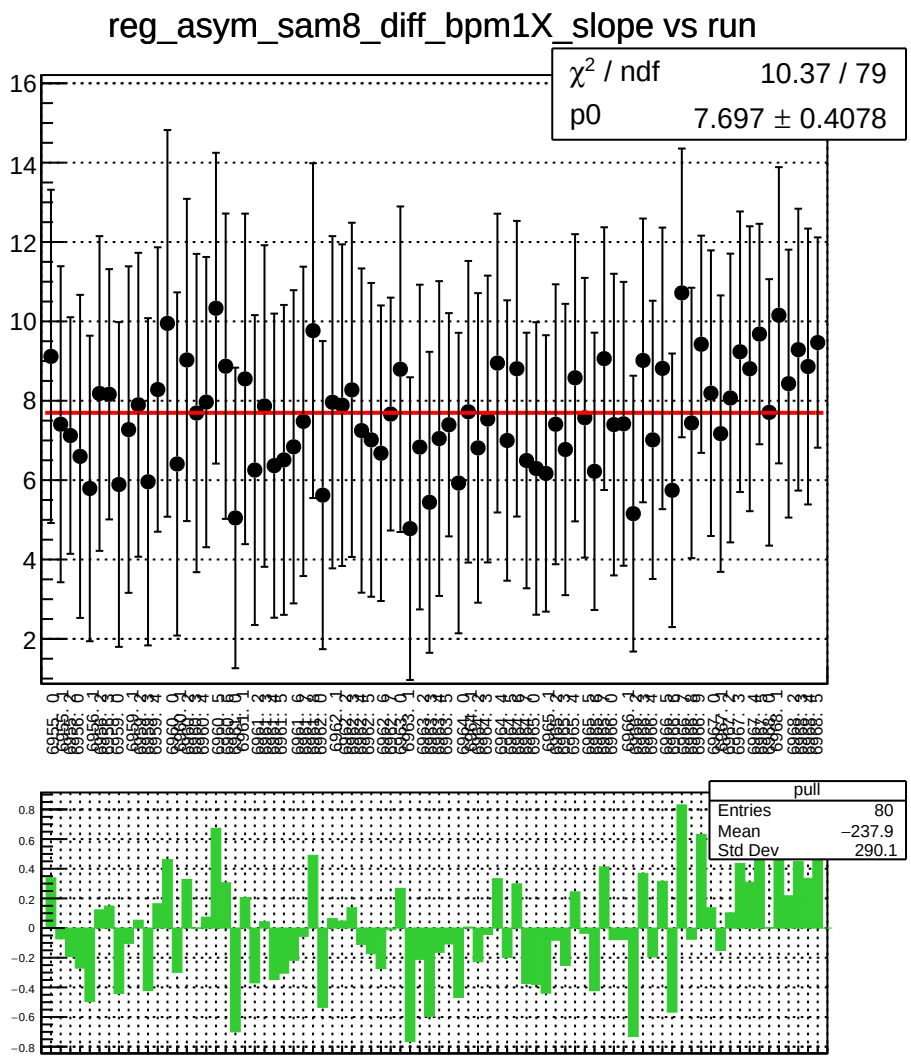

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 2.735 / 79
p0 8.01 ± 0.3706
pull
Entries 80
Mean −830.9
Std Dev 861.4
pull1D
Entries 80
Mean −0.001966
Std Dev 0.1849

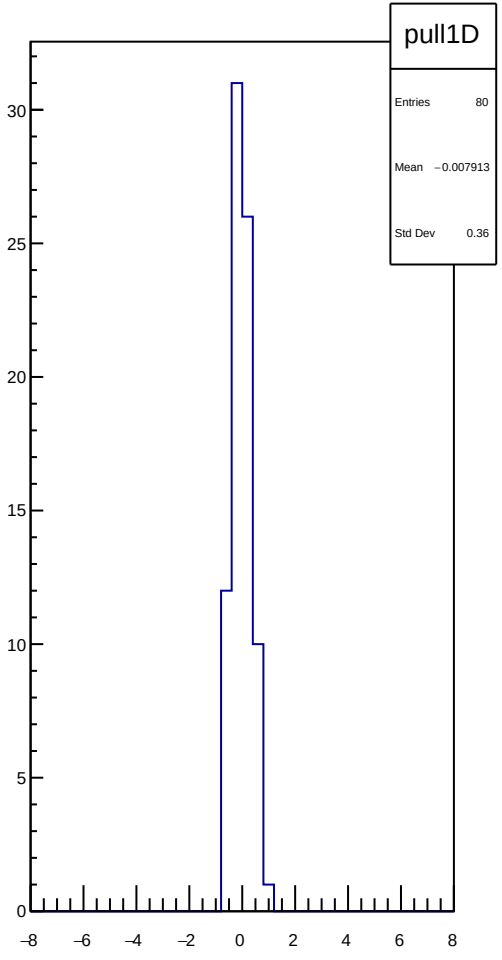

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 13.1 / 79
p0 −54.13 ± 0.5002
pull
Entries 80
Mean 6203
Std Dev 6163

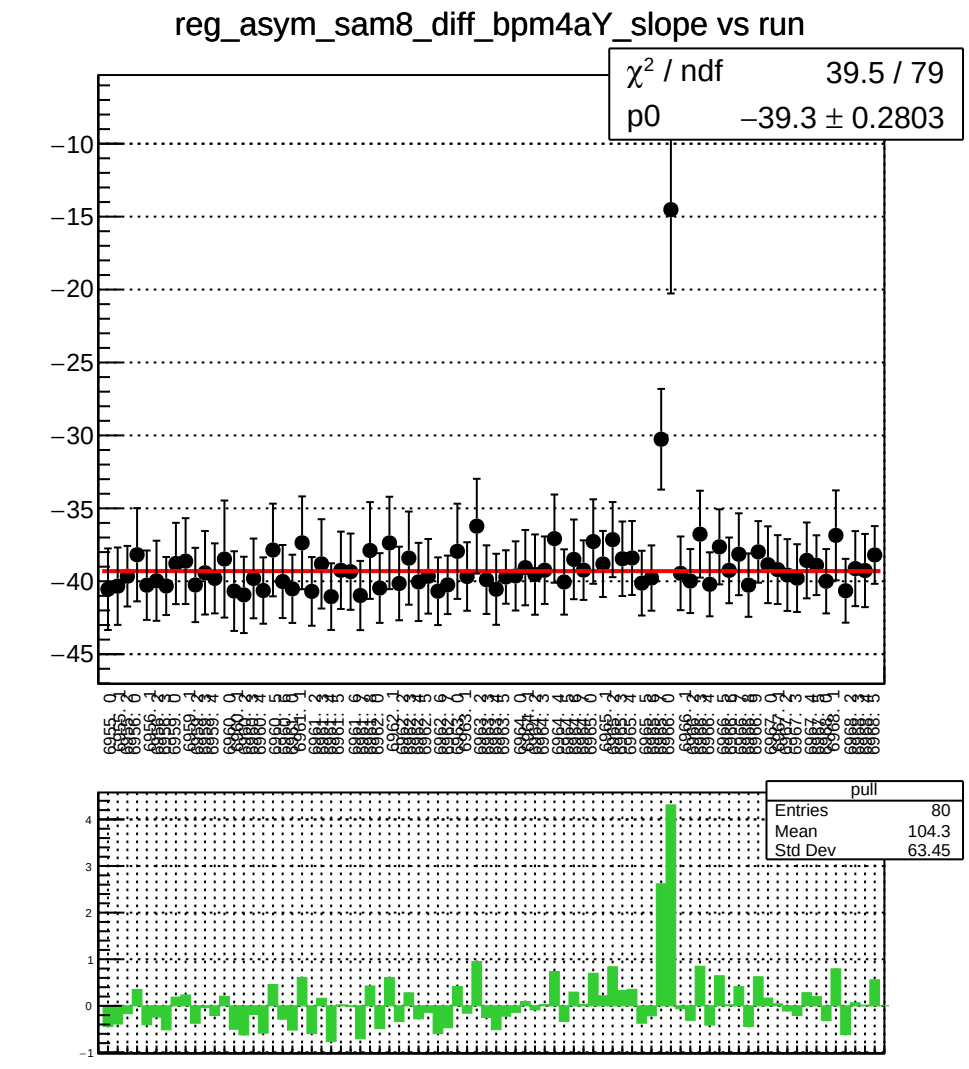

pull1D
Entries 80
Mean −0.0007349
Std Dev 0.4047

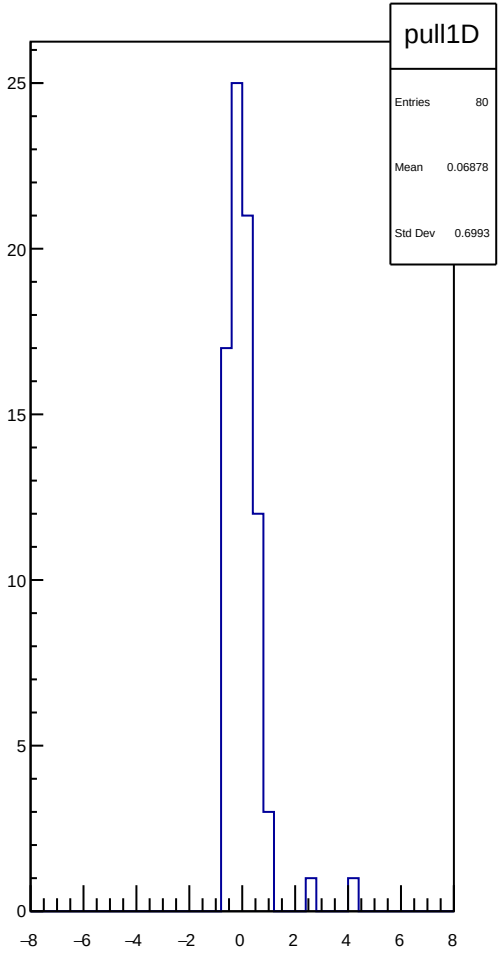

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 3.672 / 79
p0 −14.4 ± 0.4224
pull
Entries 80
Mean −1331
Std Dev 1363
pull1D
Entries 80
Mean 0.001691
Std Dev 0.2142

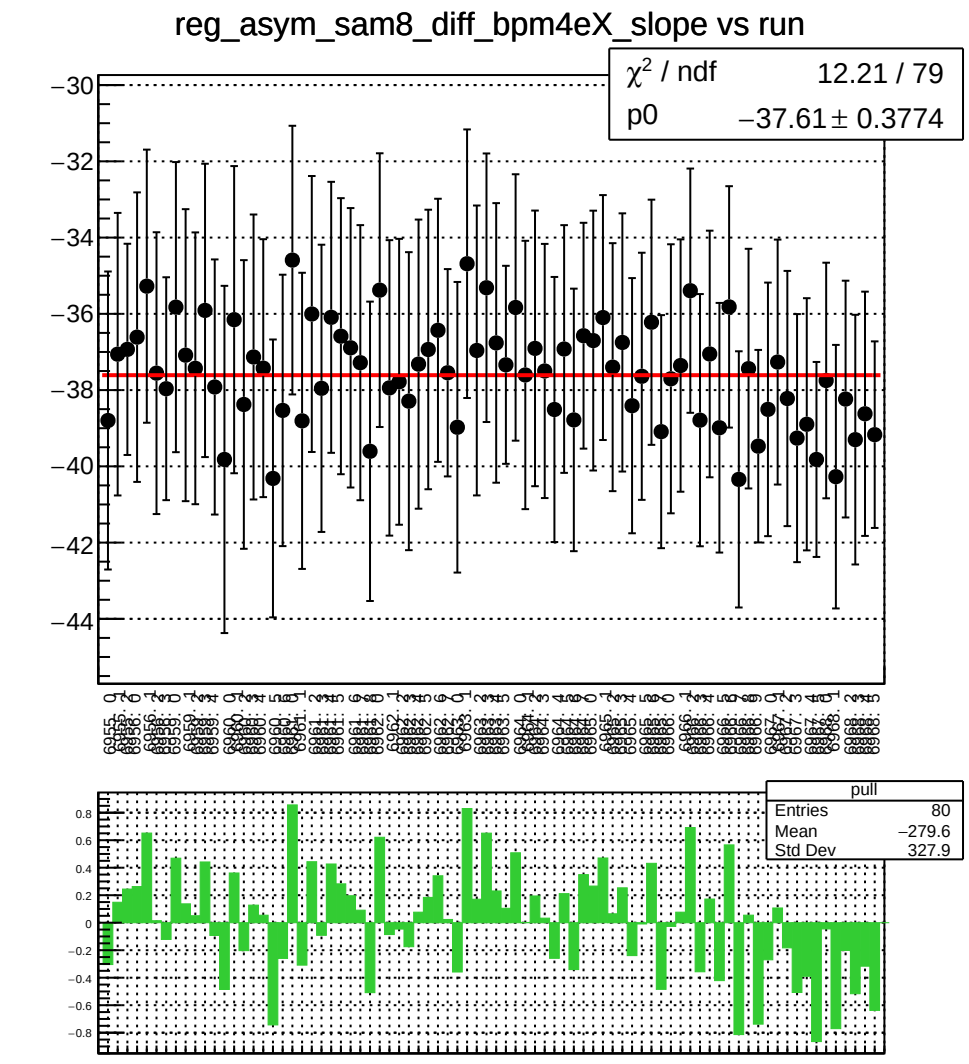

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 9.965 / 79
p0 0.4669 ± 0.01647
pull
Entries 80
Mean −1150
Std Dev 1184
pull1D
Entries 80
Mean −0.003187
Std Dev 0.3529

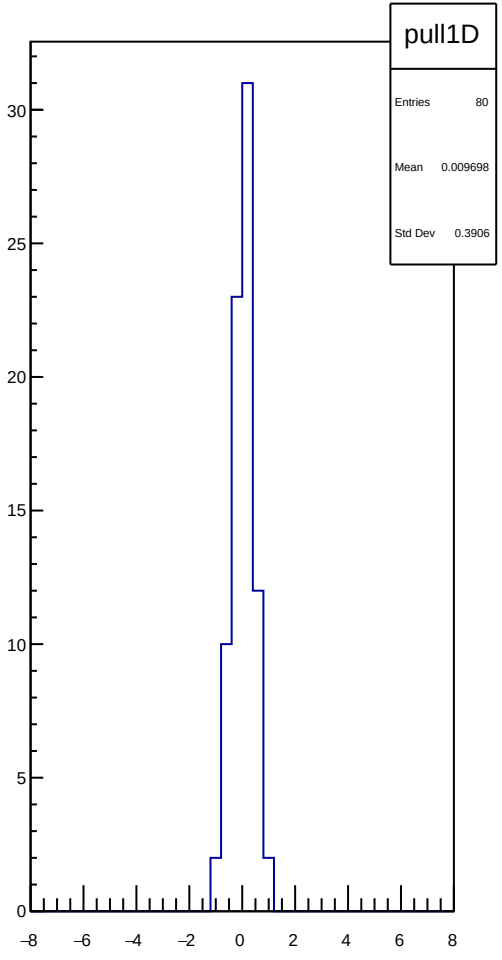

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 10.37 / 79
p0 7.697 ± 0.4078
pull
Entries 80
Mean −237.9
Std Dev 290.1

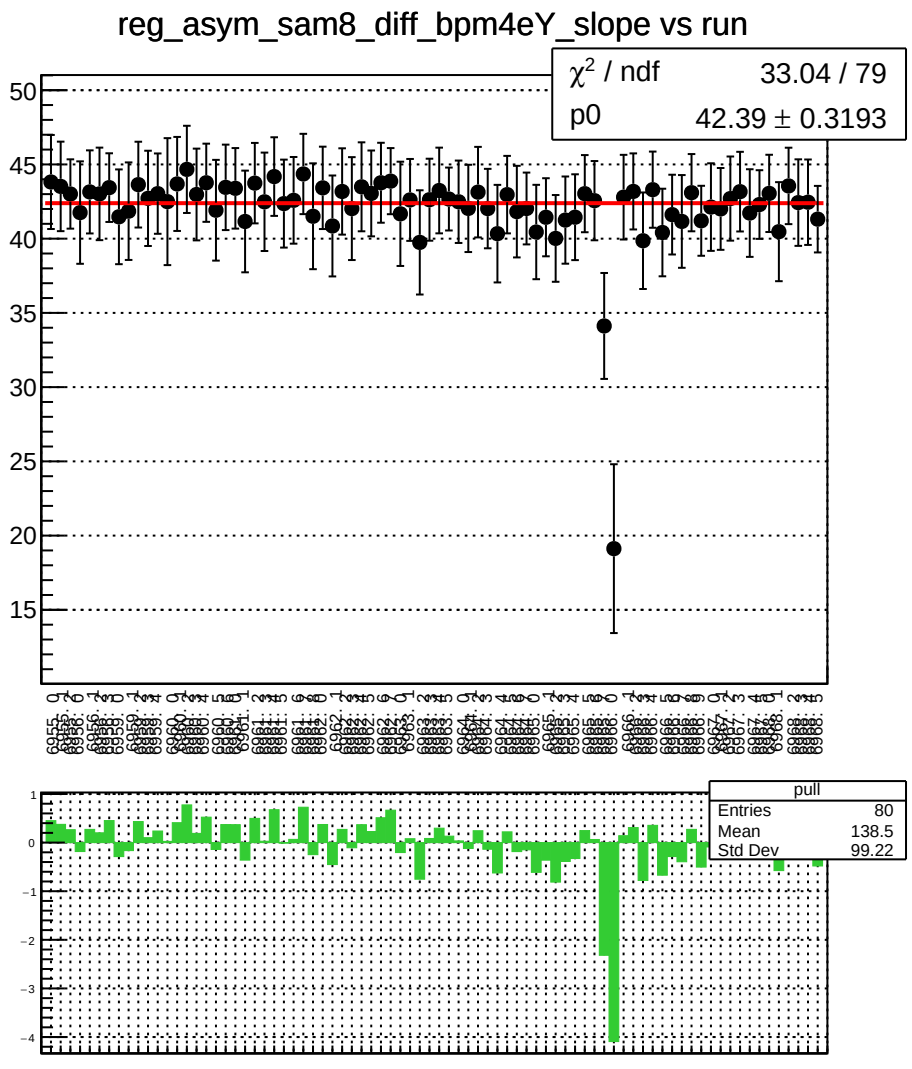

pull1D
Entries 80
Mean −0.007913
Std Dev 0.36

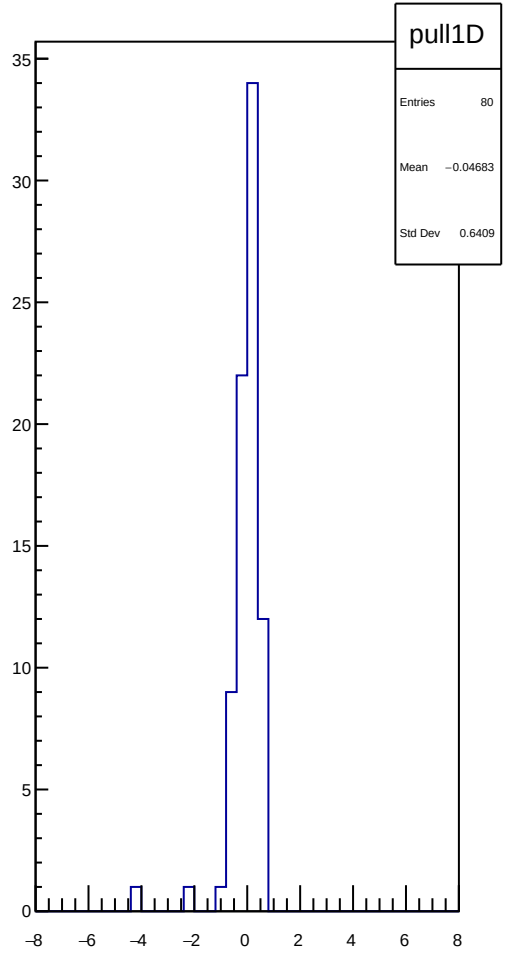

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 39.5 / 79
p0 −39.3 ± 0.2803
pull
Entries 80
Mean 104.3
Std Dev 63.45

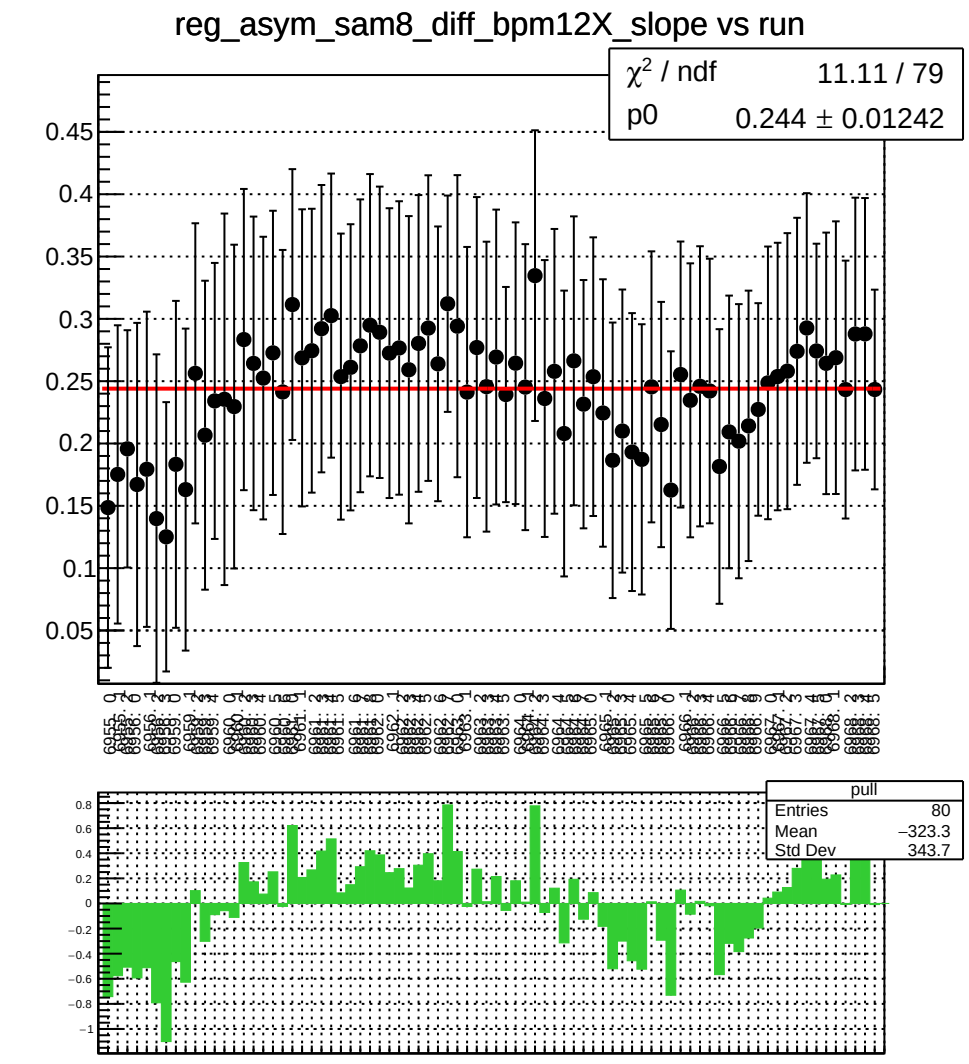

pull1D
Entries 80
Mean 0.06878
Std Dev 0.6993

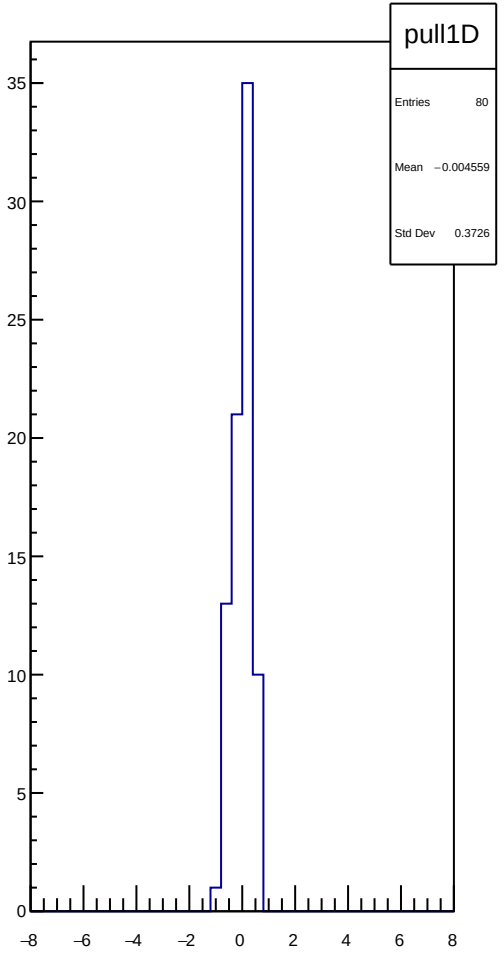

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 12.21 / 79
p0 −37.61 ± 0.3774
pull
Entries 80
Mean −279.6
Std Dev 327.9

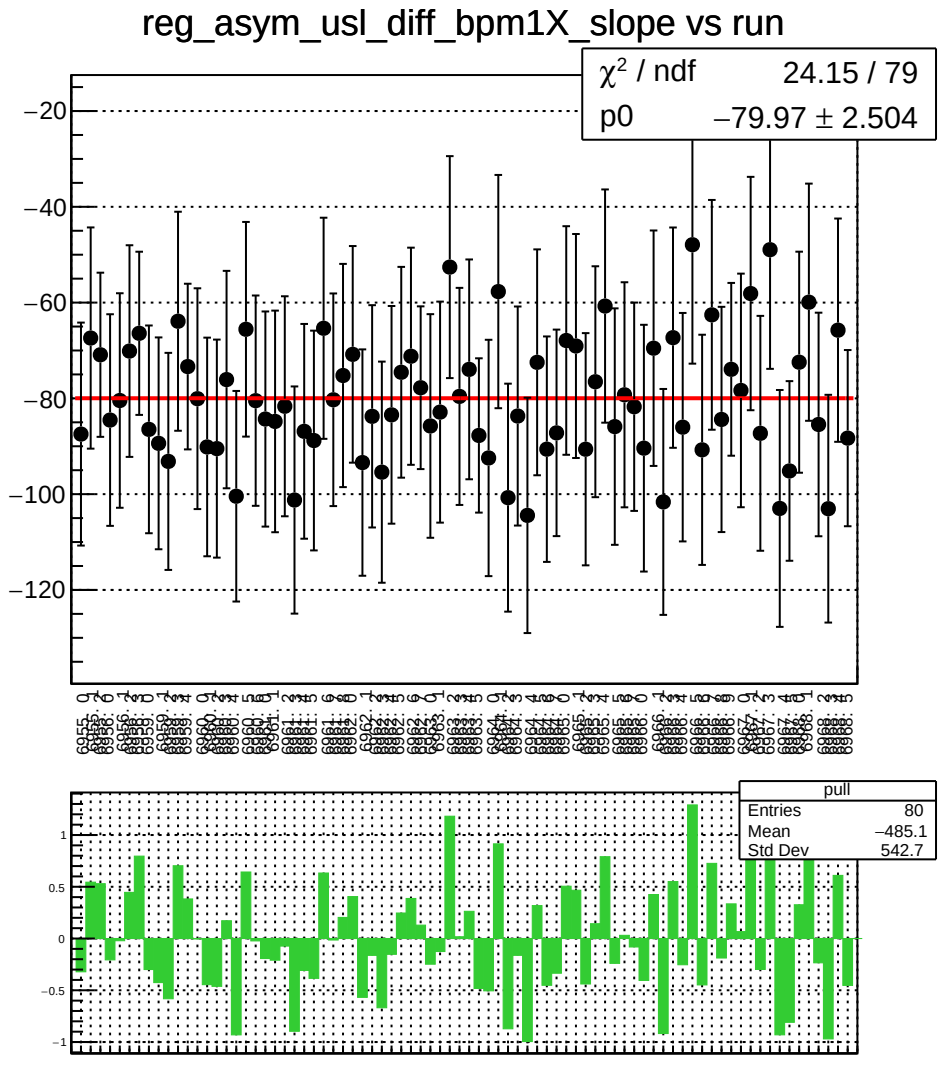

pull1D
Entries 80
Mean 0.009698
Std Dev 0.3906

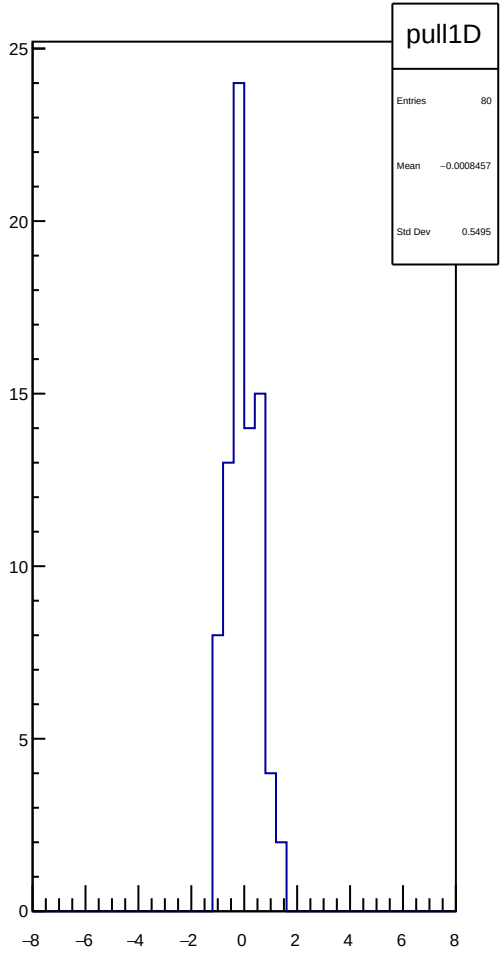

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 33.04 / 79
p0 42.39 ± 0.3193
pull
Entries 80
Mean 138.5
Std Dev 99.22

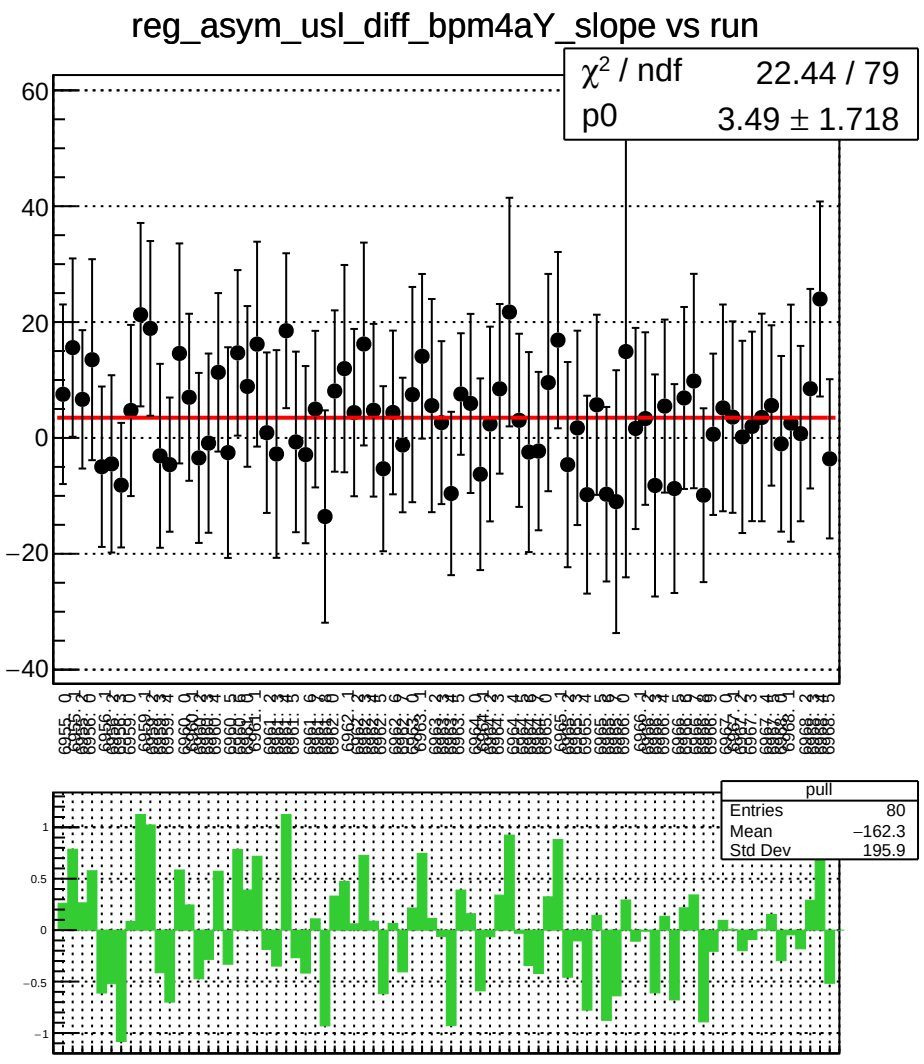

pull1D
Entries 80
Mean −0.04683
Std Dev 0.6409

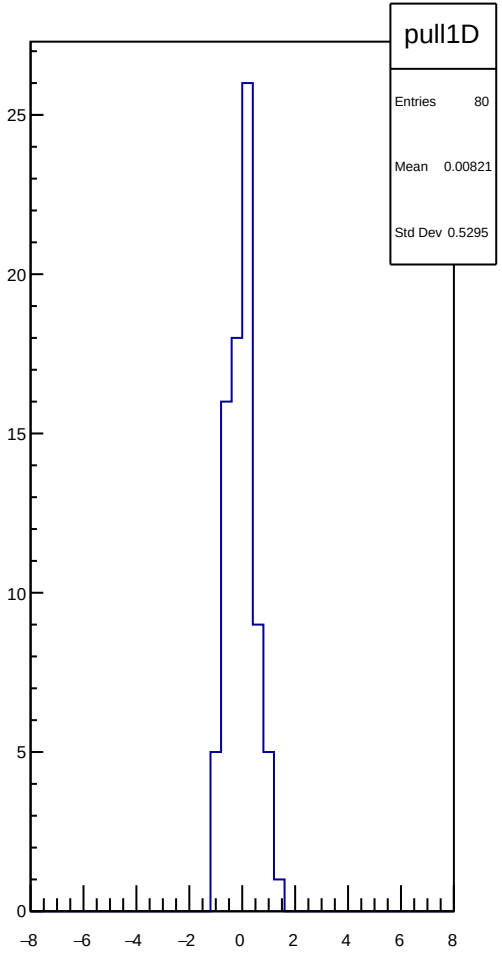

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 11.11 / 79
p0 0.244 ± 0.01242
pull
Entries 80
Mean −323.3
Std Dev 343.7

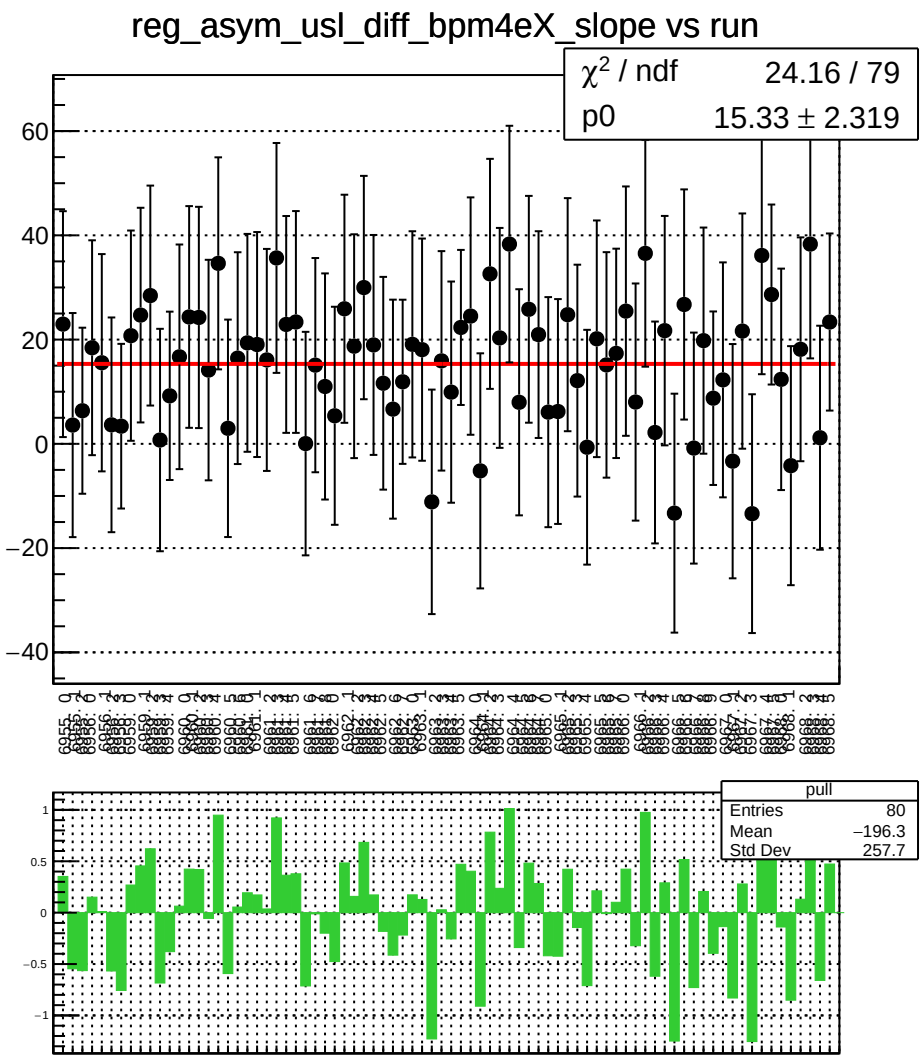

pull1D
Entries 80
Mean −0.004559
Std Dev 0.3726

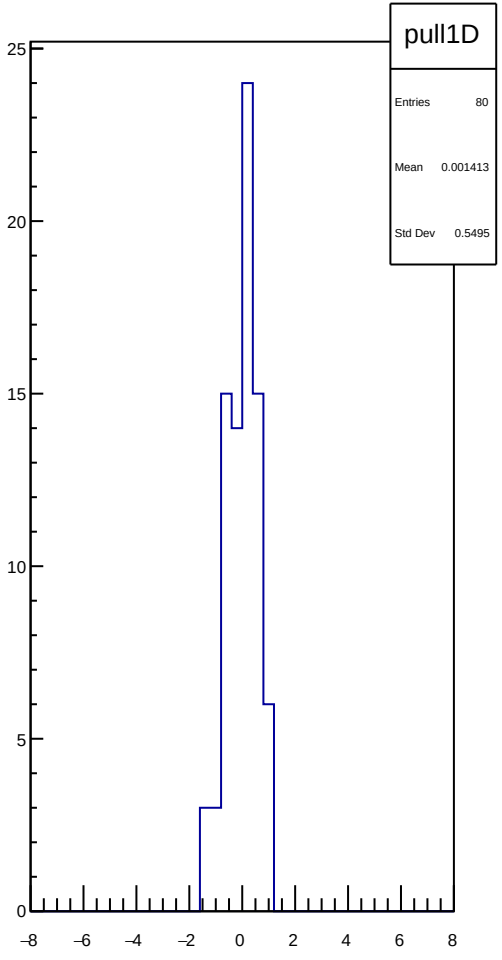

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 24.15 / 79
p0 −79.97 ± 2.504
−20
−40
−60
−80
−100
−120
pull
Entries 80
Mean −485.1
Std Dev 542.7
1
0.5
0
−0.5
−1

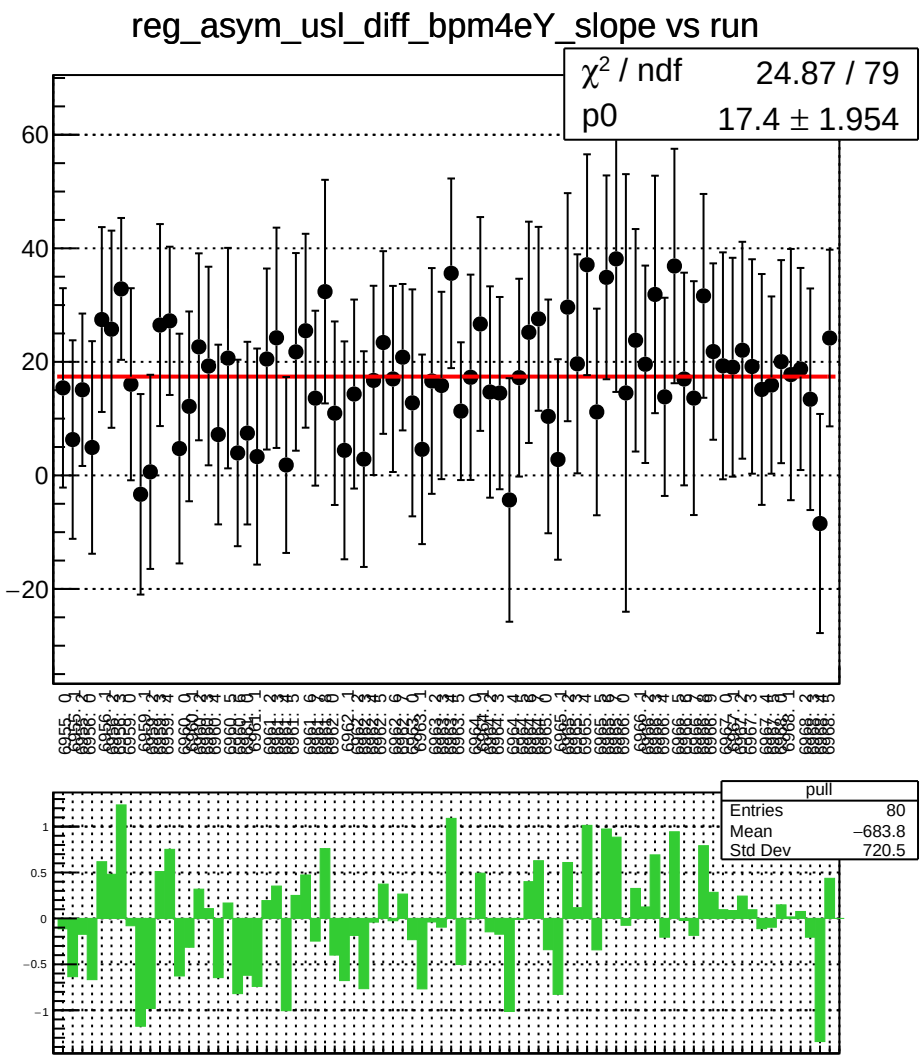

pull1D
Entries 80
Mean −0.0008457
Std Dev 0.5495
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

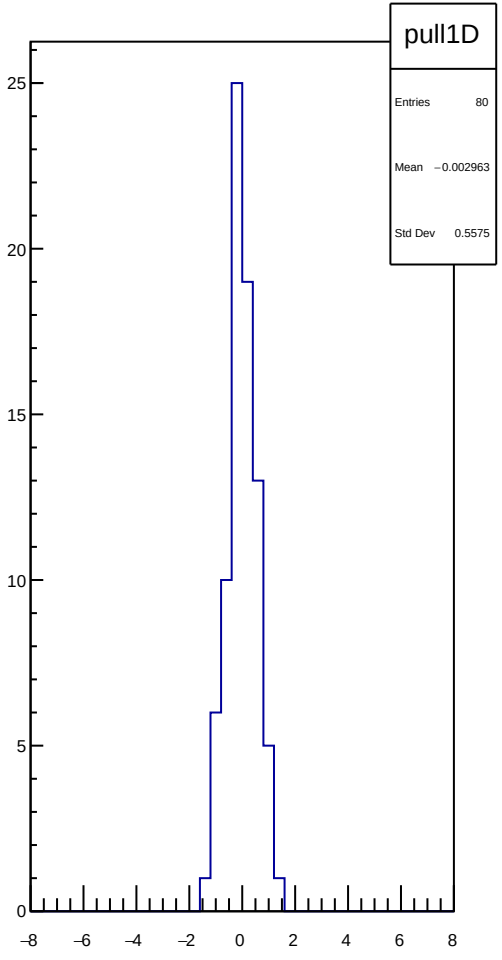

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 22.44 / 79
p0 3.49 ± 1.718
pull
Entries 80
Mean −162.3
Std Dev 195.9

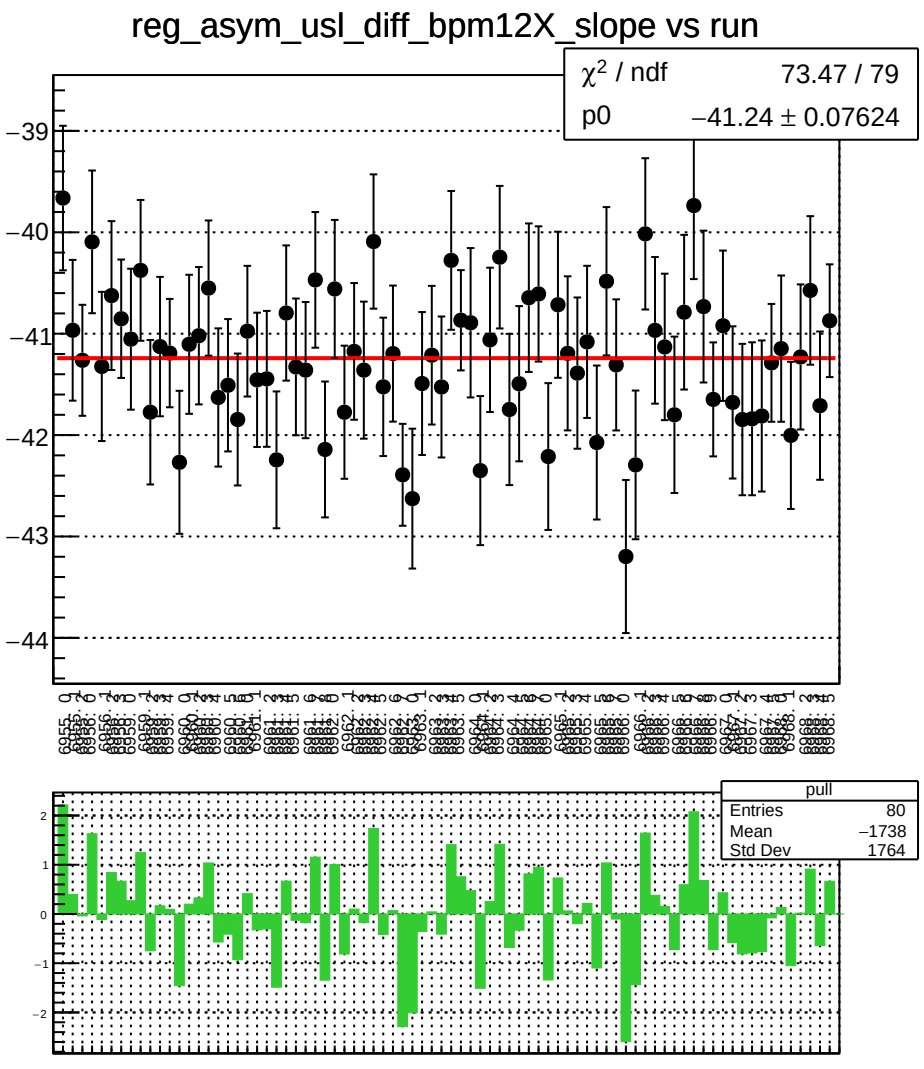

pull1D
Entries 80
Mean 0.00821
Std Dev 0.5295

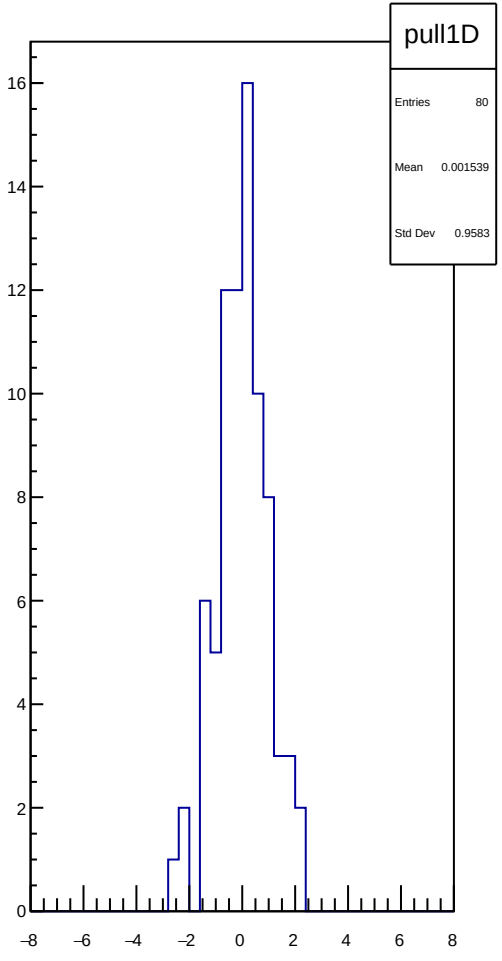

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 24.16 / 79
p0 15.33 ± 2.319
pull
Entries 80
Mean −196.3
Std Dev 257.7

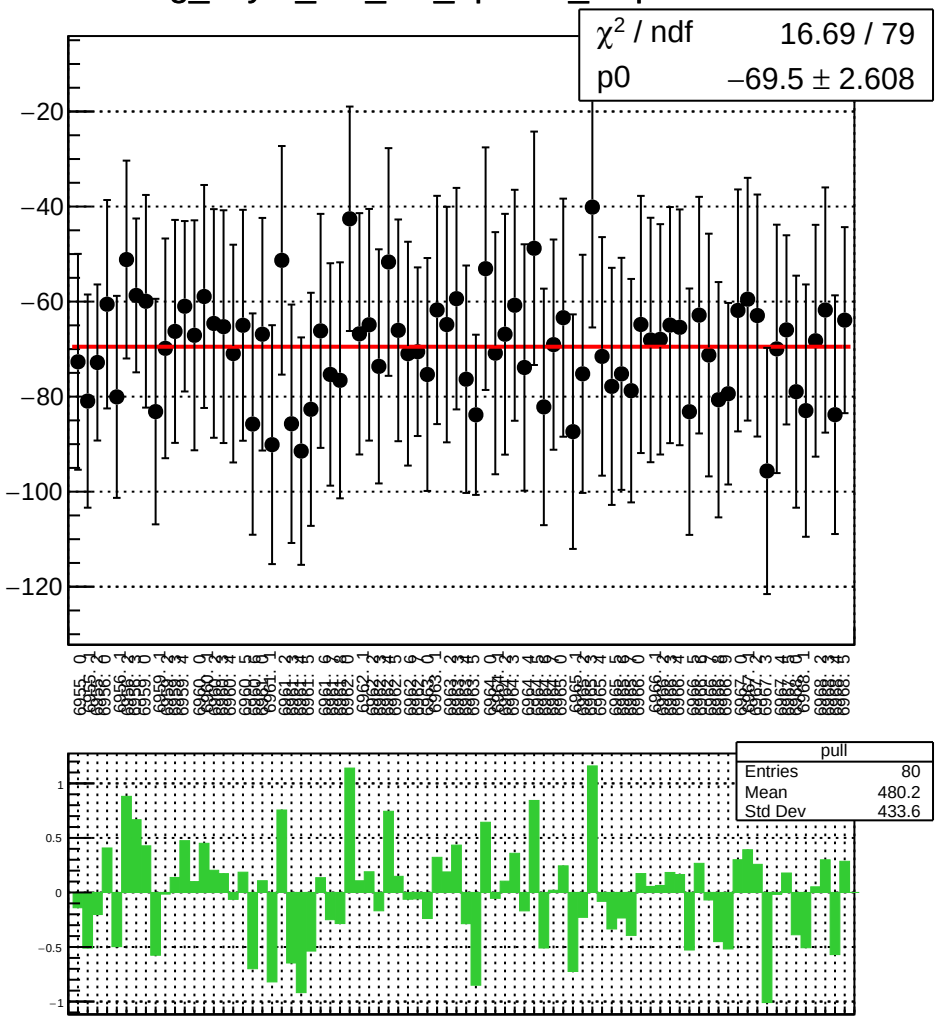

pull1D
Entries 80
Mean 0.001413
Std Dev 0.5495

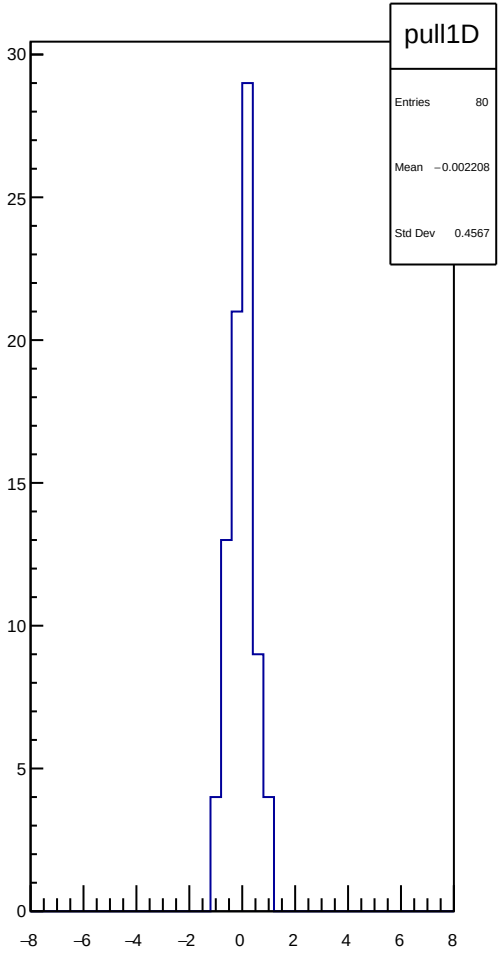

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 24.87 / 79
p0 17.4 ± 1.954
pull
Entries 80
Mean −683.8
Std Dev 720.5

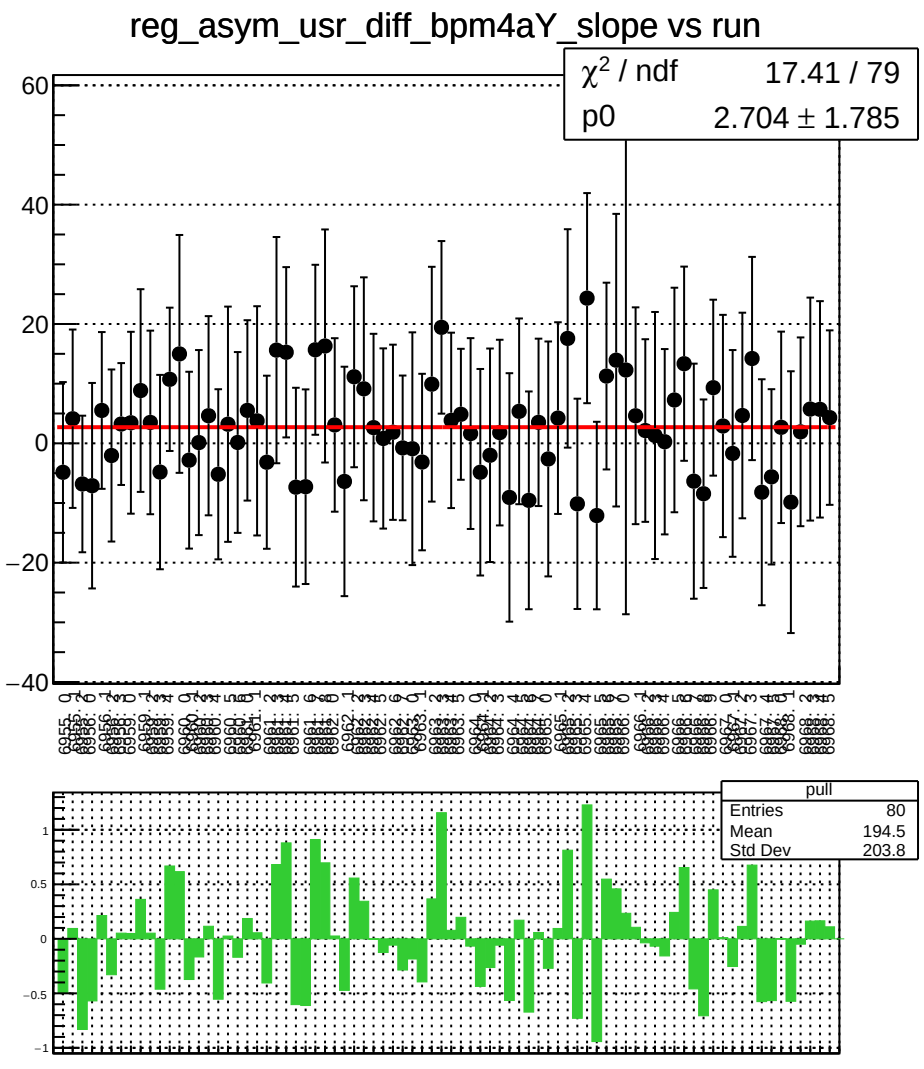

pull1D
Entries 80
Mean −0.002963
Std Dev 0.5575

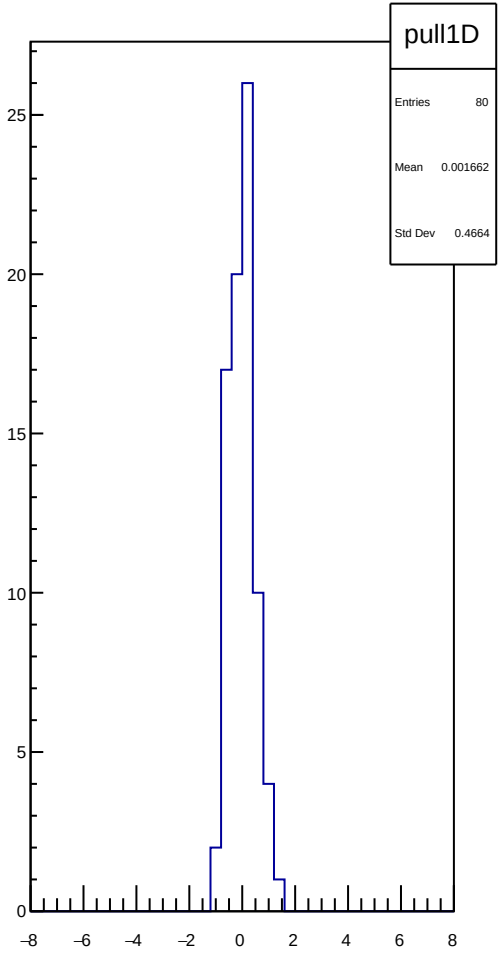

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 73.47 / 79
p0 −41.24 ± 0.07624
pull
Entries 80
Mean −1738
Std Dev 1764

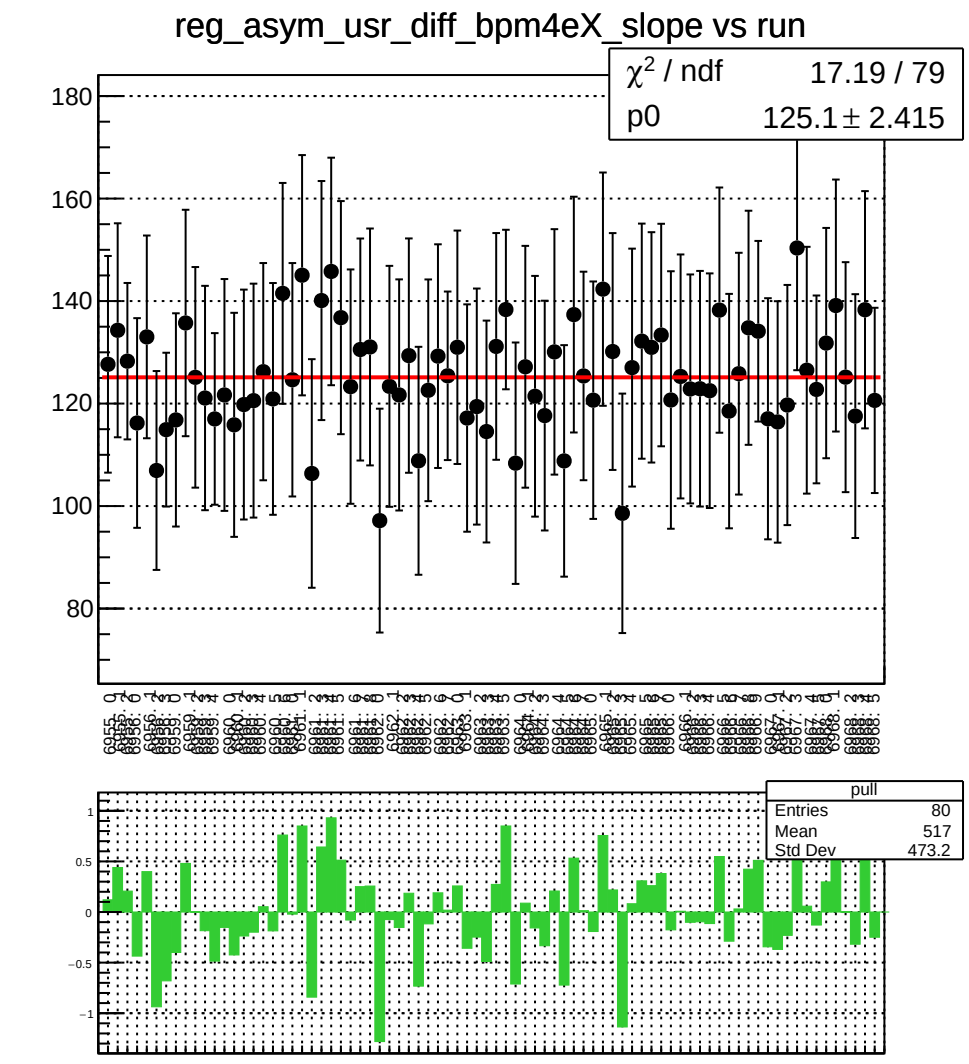

pull1D
Entries 80
Mean 0.001539
Std Dev 0.9583

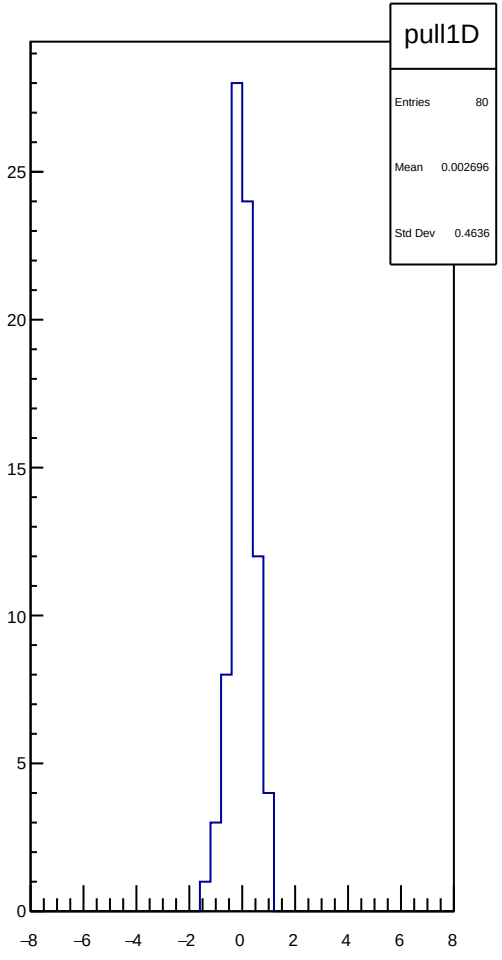

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 16.69 / 79
p0 −69.5 ± 2.608
pull
Entries 80
Mean 480.2
Std Dev 433.6

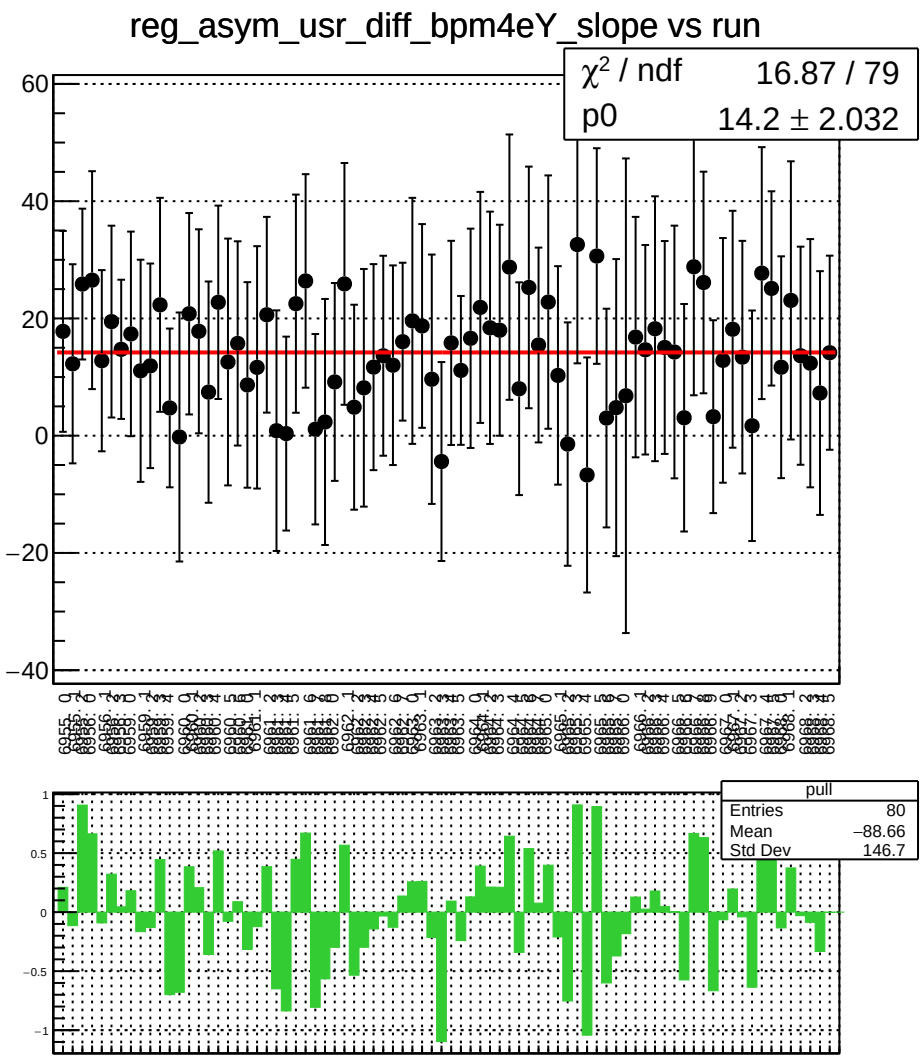

pull1D
Entries 80
Mean −0.002208
Std Dev 0.4567

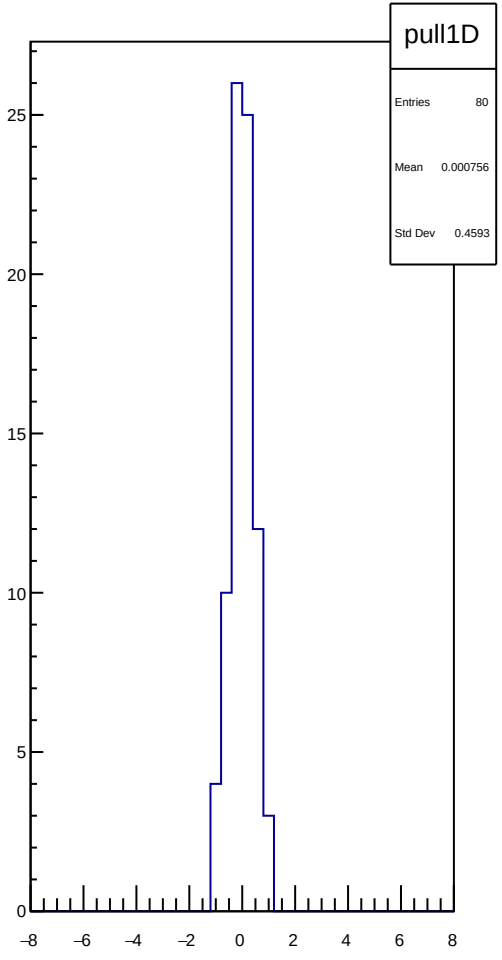

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 17.41 / 79
p0 2.704 ± 1.785
pull
Entries 80
Mean 194.5
Std Dev 203.8

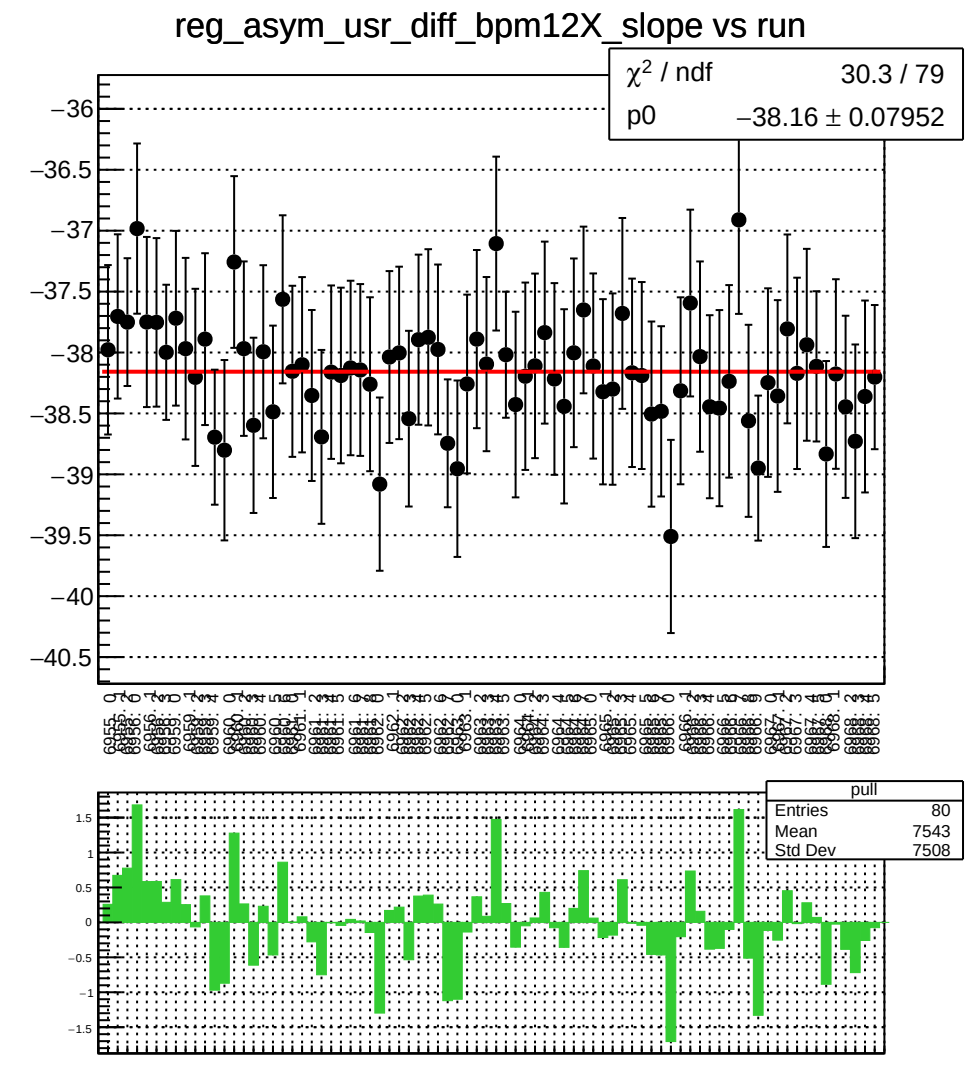

pull1D
Entries 80
Mean 0.001662
Std Dev 0.4664

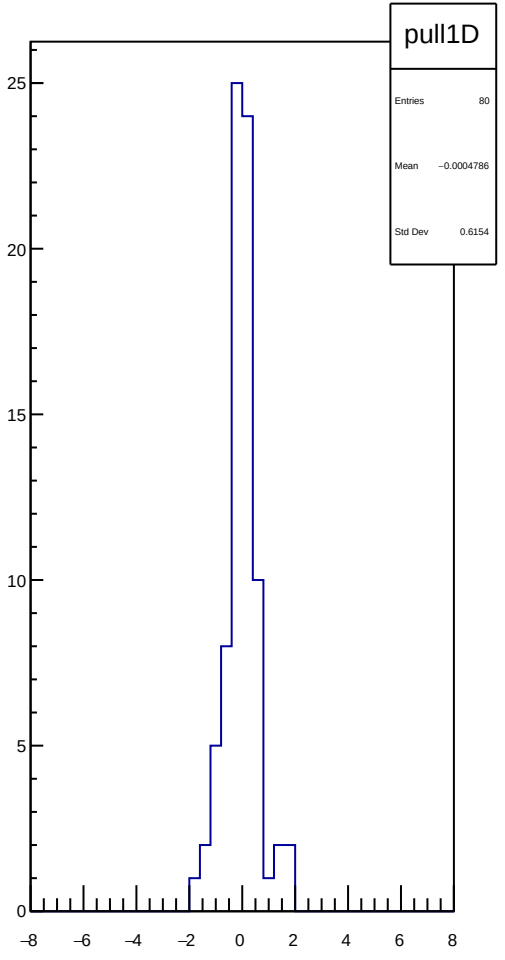

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 17.19 / 79
p0 125.1 ± 2.415
pull
Entries 80
Mean 517
Std Dev 473.2

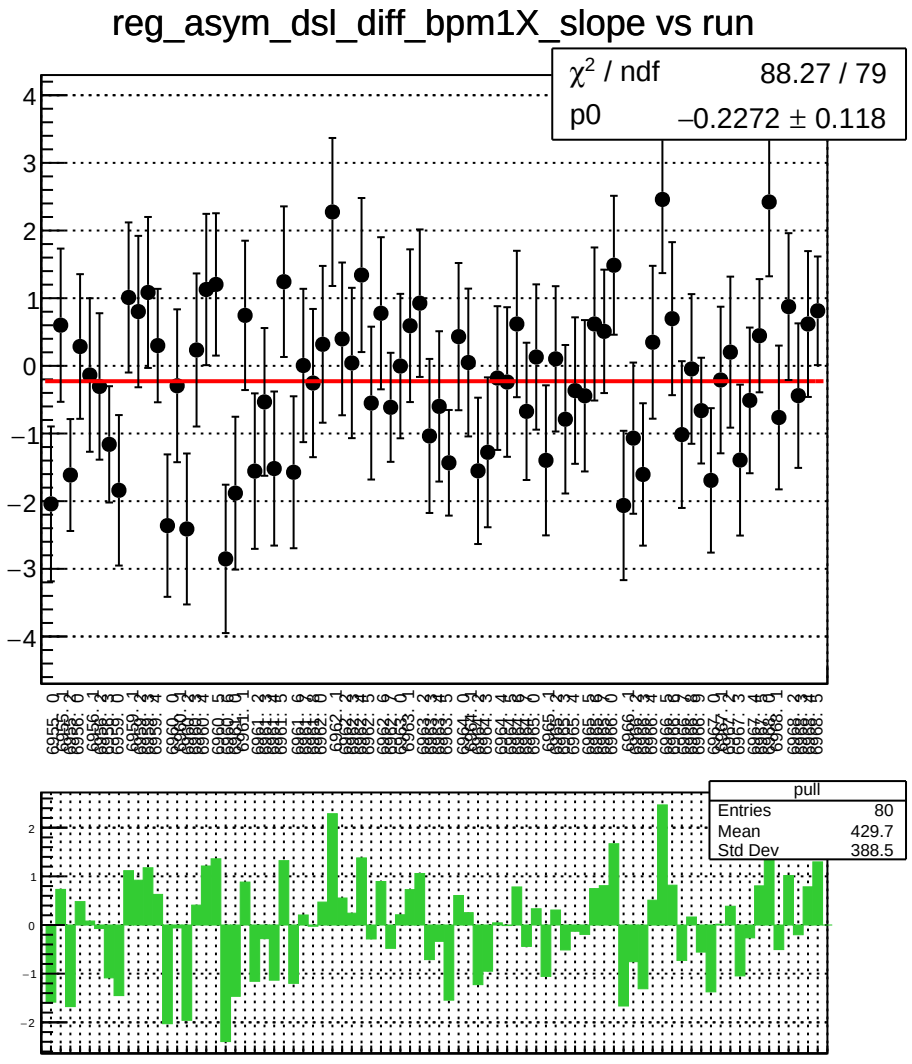

pull1D
Entries 80
Mean 0.002696
Std Dev 0.4636

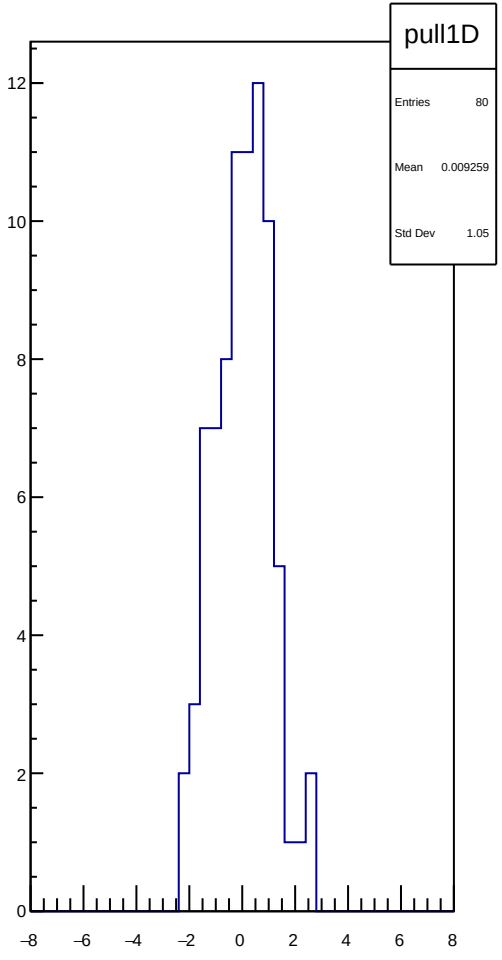

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 16.87 / 79
p0 14.2 ± 2.032
pull
Entries 80
Mean −88.66
Std Dev 146.7

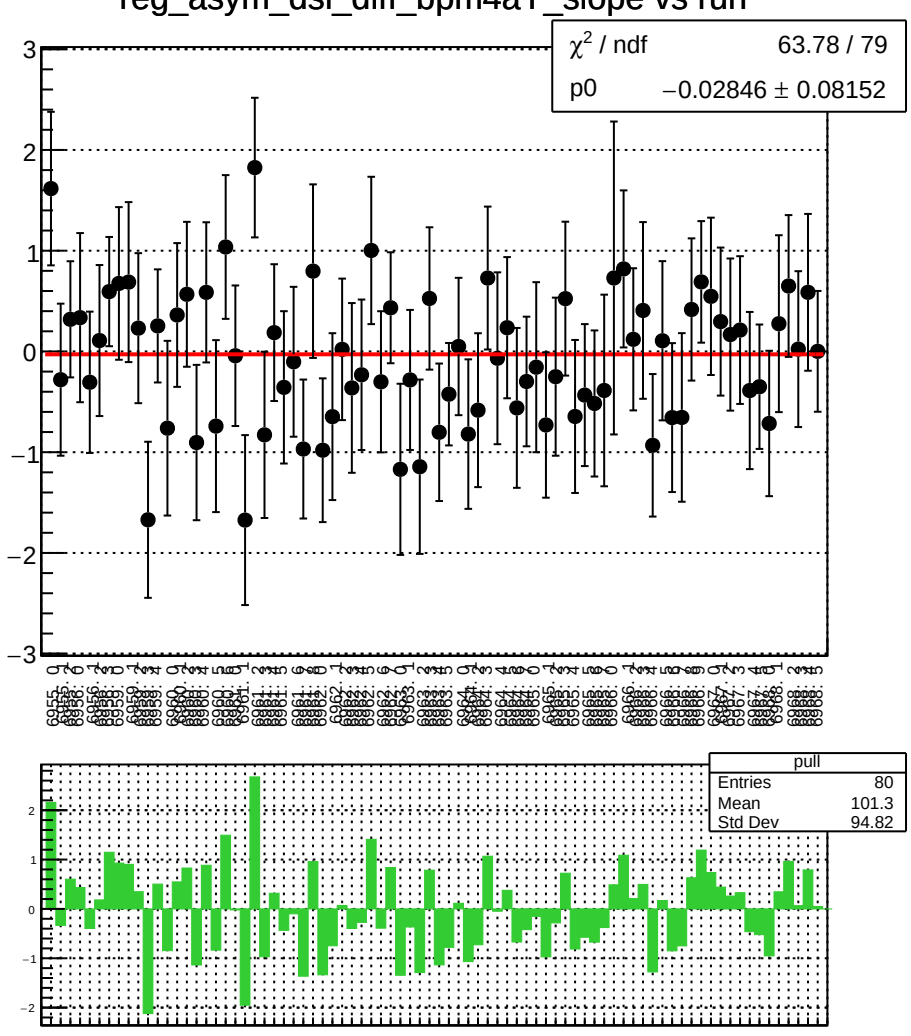

pull1D
Entries 80
Mean 0.000756
Std Dev 0.4593

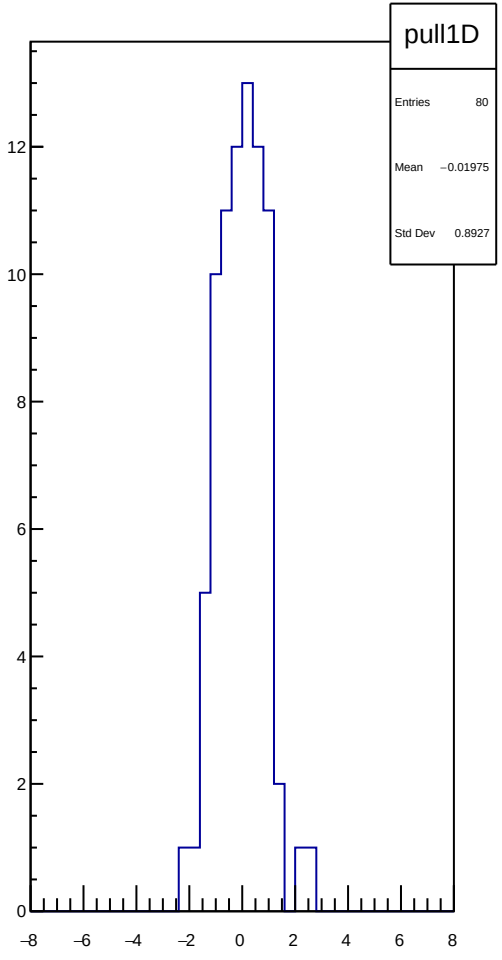

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 30.3 / 79
p0 −38.16 ± 0.07952
pull
Entries 80
Mean 7543
Std Dev 7508

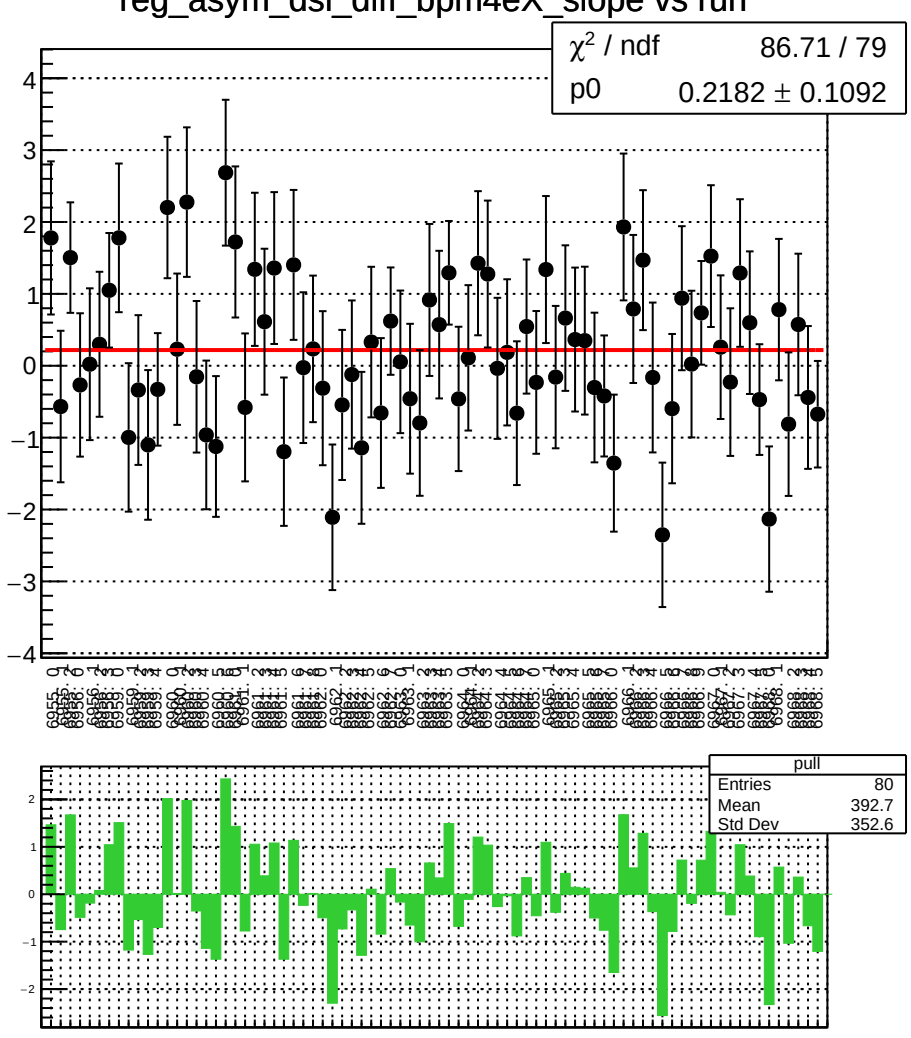

pull1D
Entries 80
Mean −0.0004786
Std Dev 0.6154

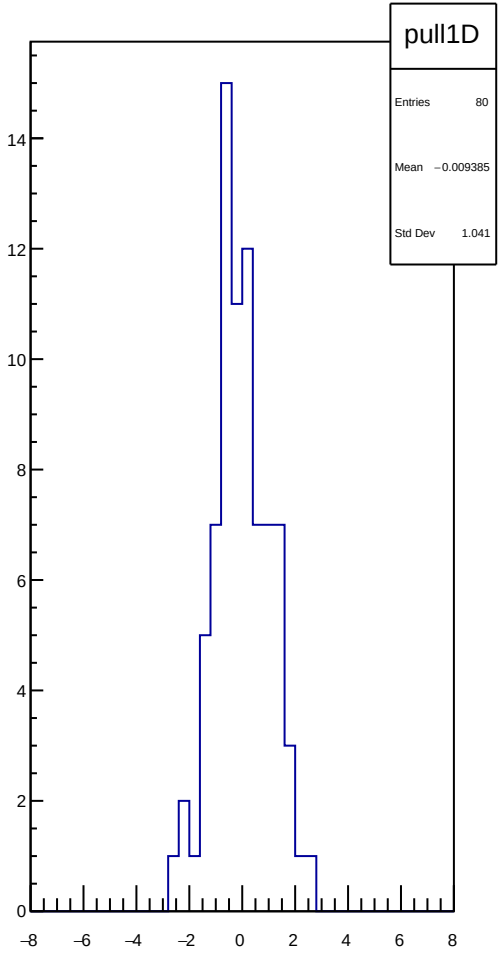

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 88.27 / 79
p0 −0.2272 ± 0.118
pull
Entries 80
Mean 429.7
Std Dev 388.5

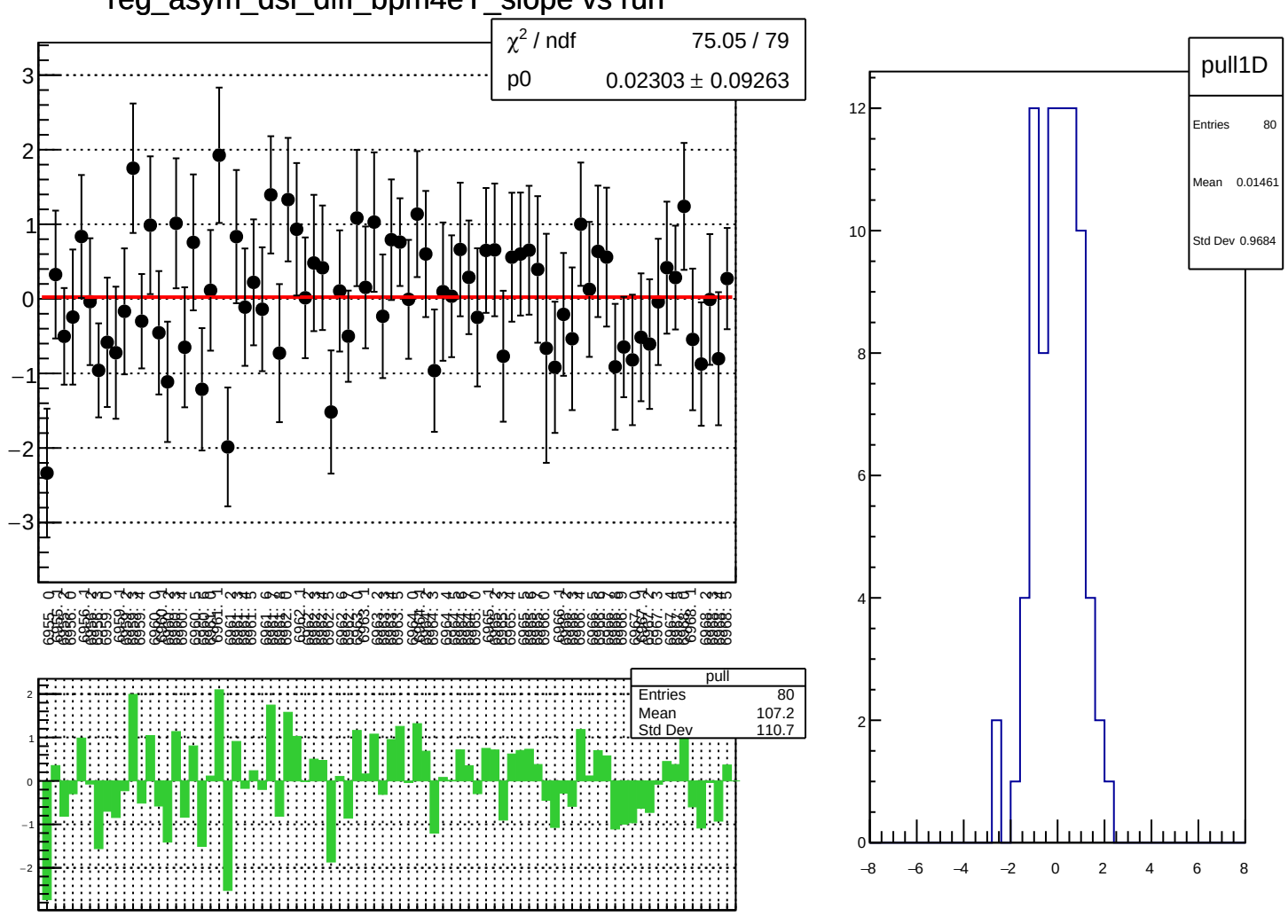

pull1D
Entries 80
Mean 0.009259
Std Dev 1.05

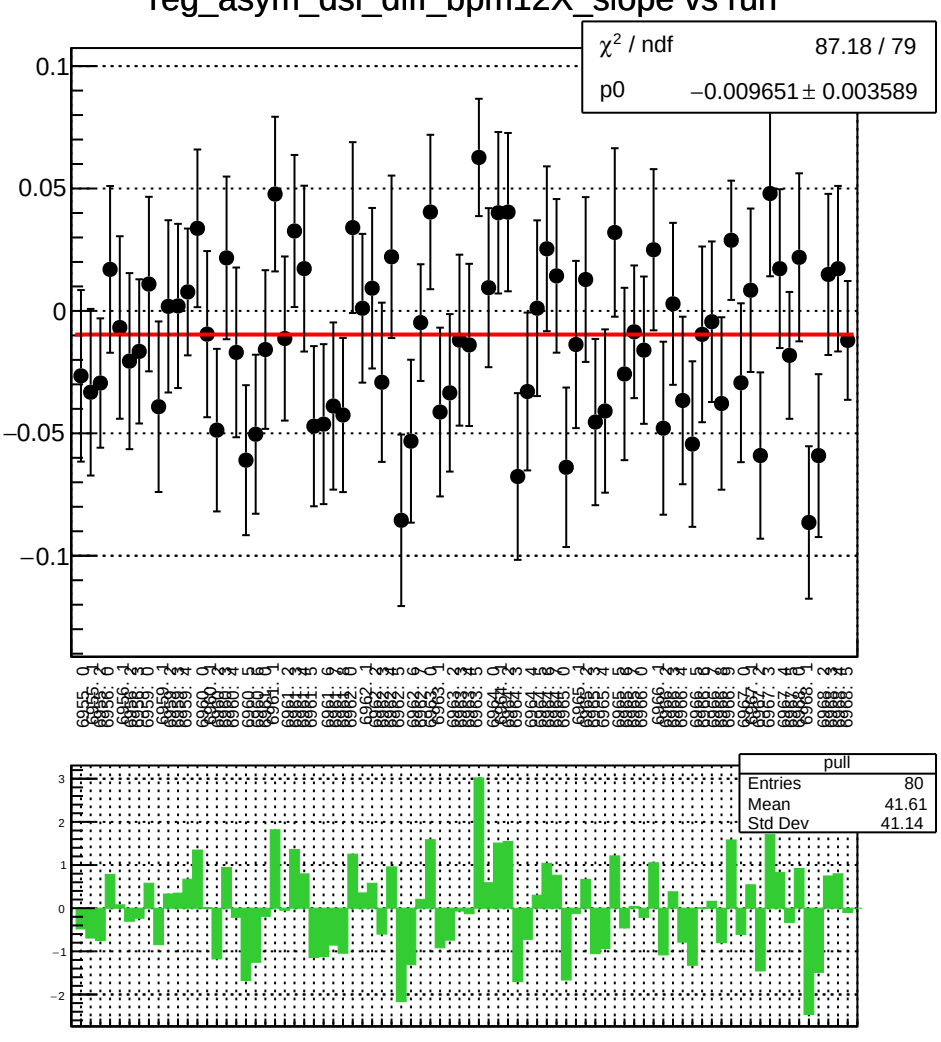

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 63.78 / 79
p0 −0.02846 ± 0.08152
pull
Entries 80
Mean 101.3
Std Dev 94.82

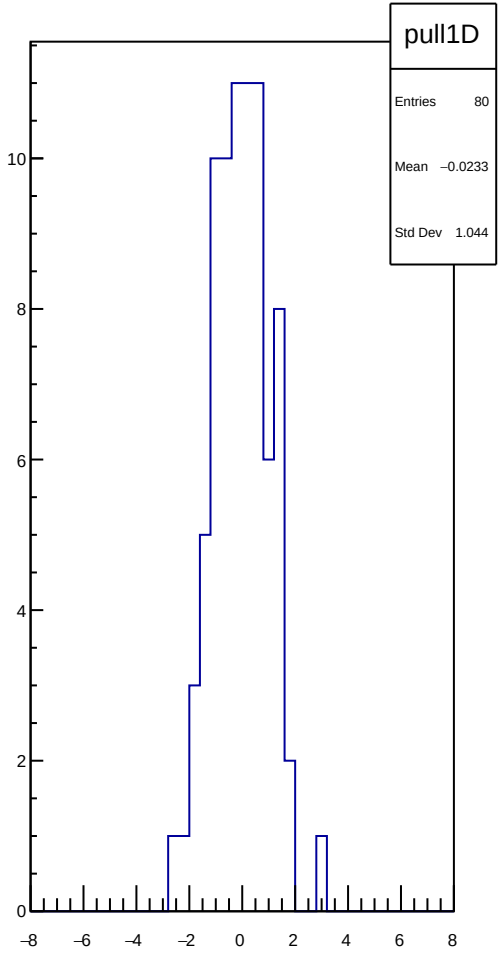

pull1D
Entries 80
Mean −0.01975
Std Dev 0.8927

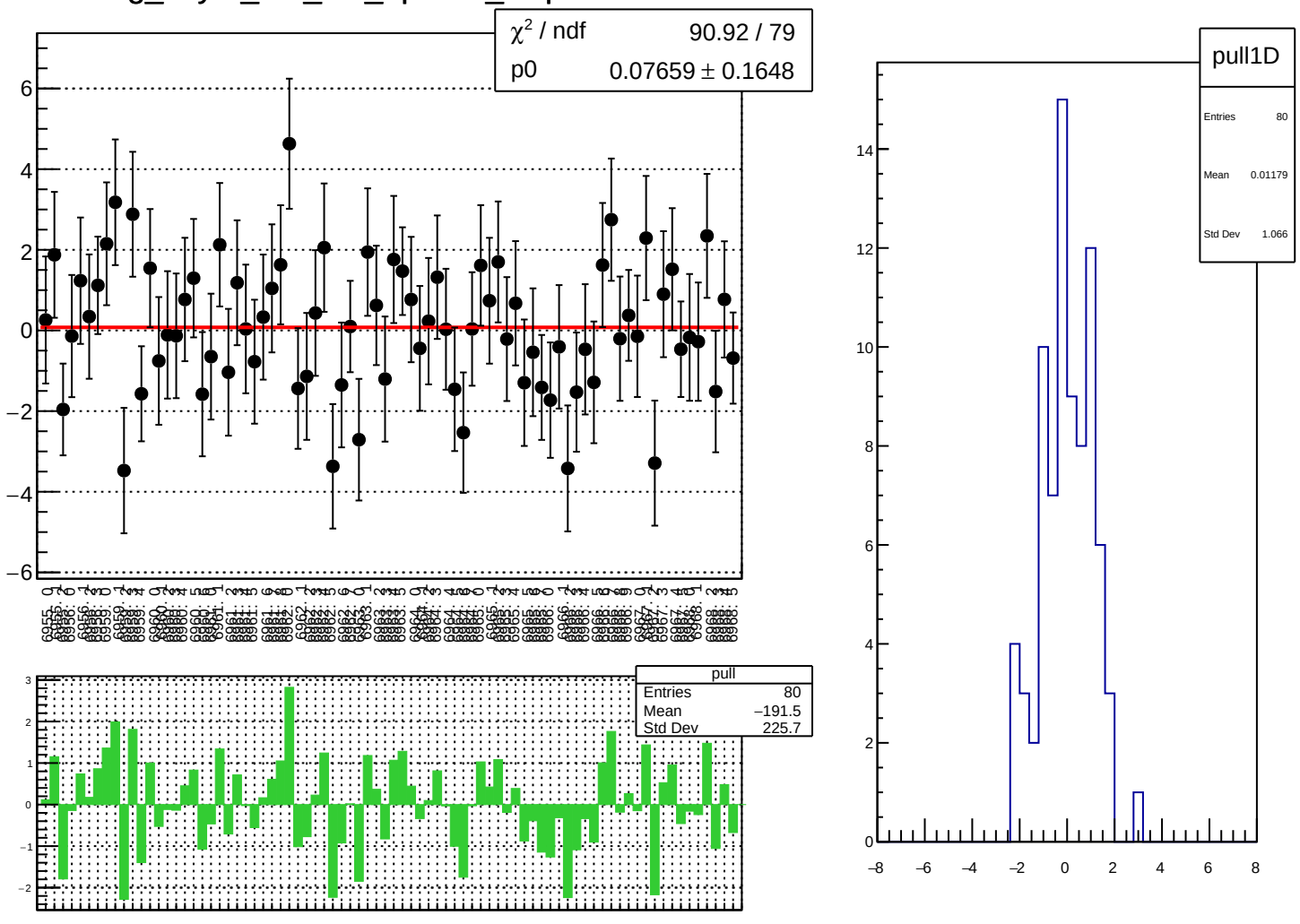

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 86.71 / 79
p0 0.2182 ± 0.1092
pull
Entries 80
Mean 392.7
Std Dev 352.6

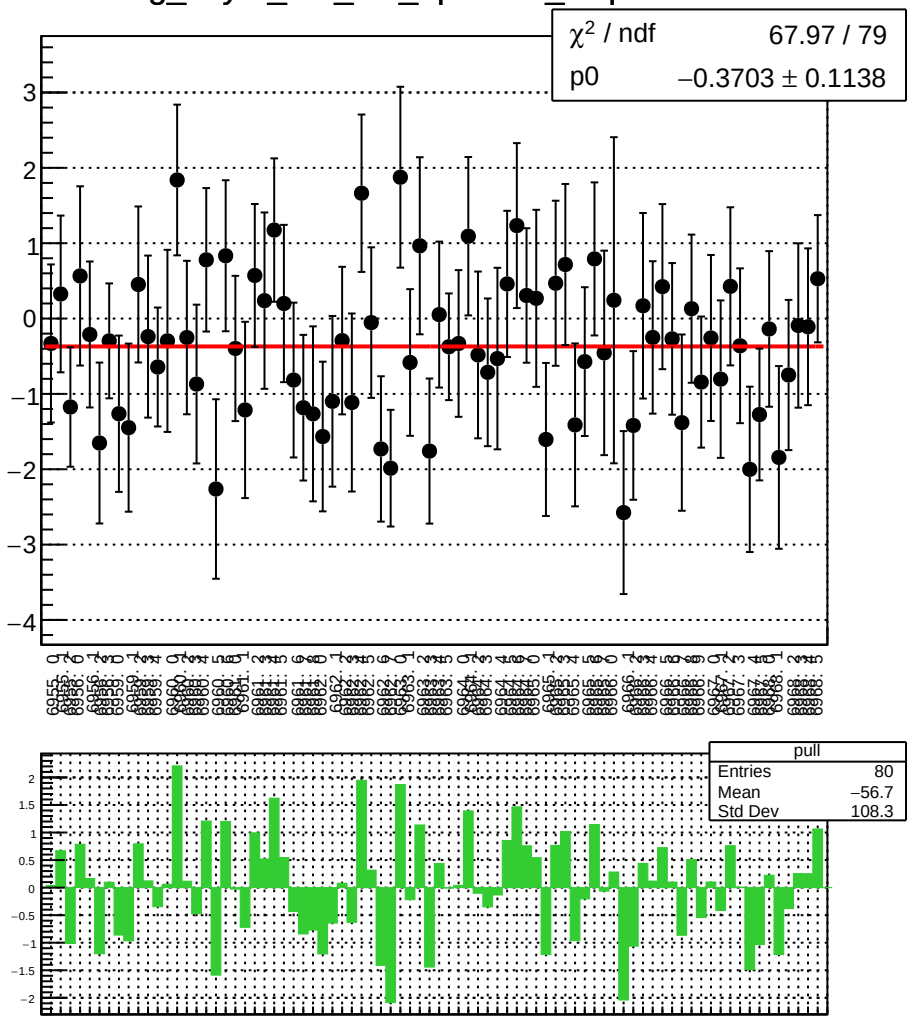

pull1D
Entries 80
Mean −0.009385
Std Dev 1.041

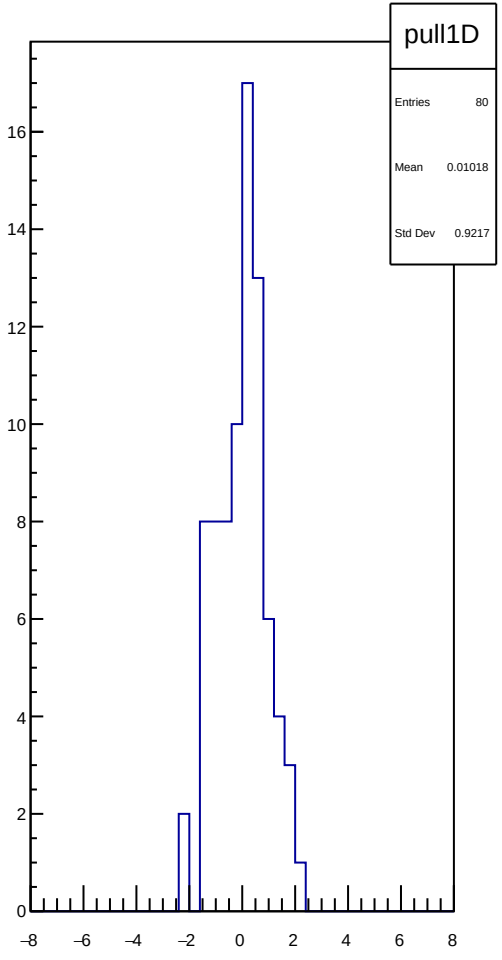

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 75.05 / 79
p0 0.02303 ± 0.09263
pull
Entries 80
Mean 107.2
Std Dev 110.7
pull1D
Entries 80
Mean 0.01461
Std Dev 0.9684

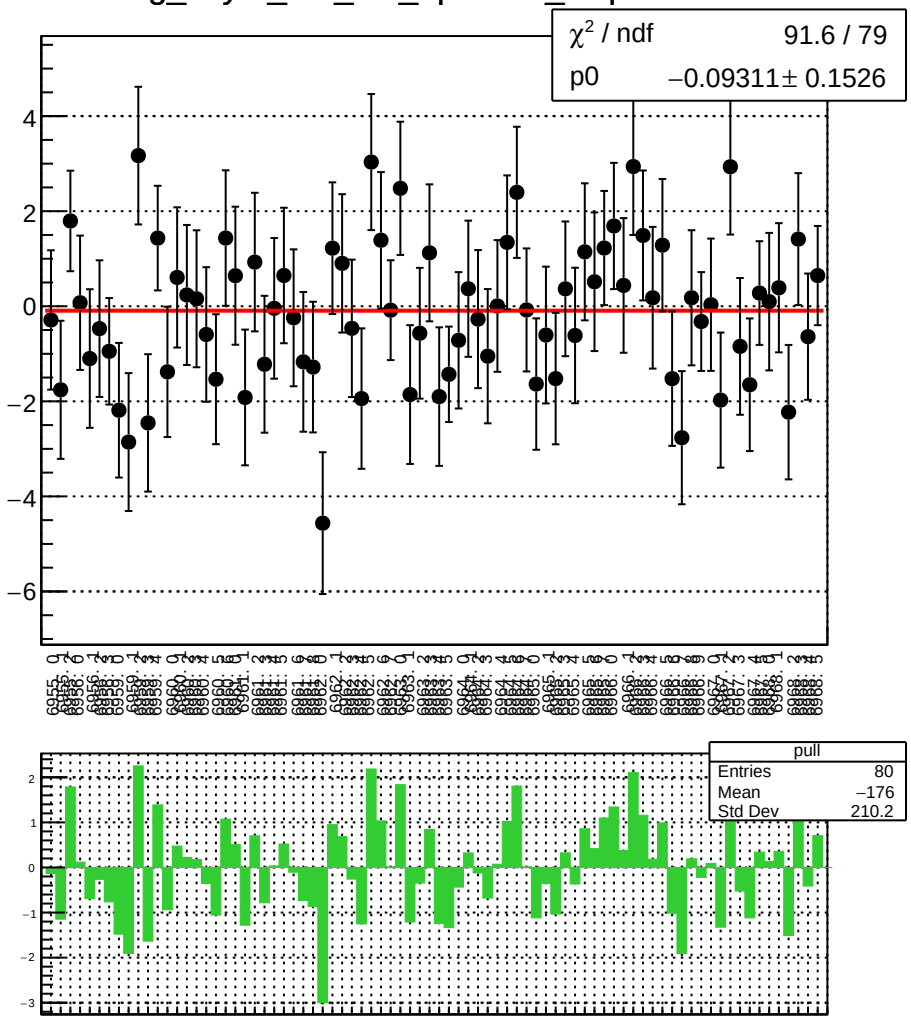

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 87.18 / 79
p0 −0.009651 ± 0.003589
0.1
0.05
0
−0.05
−0.1
pull
Entries 80
Mean 41.61
Std Dev 41.14
3
2
1
0
−1
−2

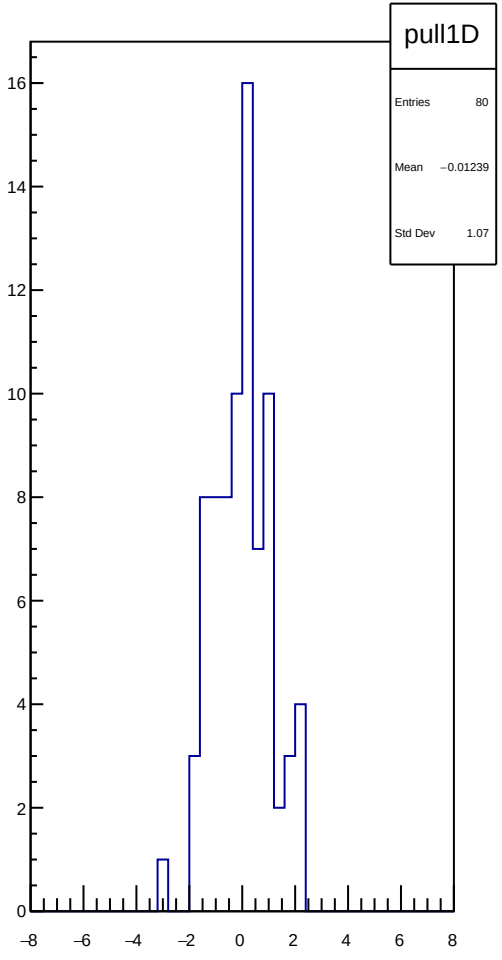

pull1D
Entries 80
Mean −0.0233
Std Dev 1.044
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

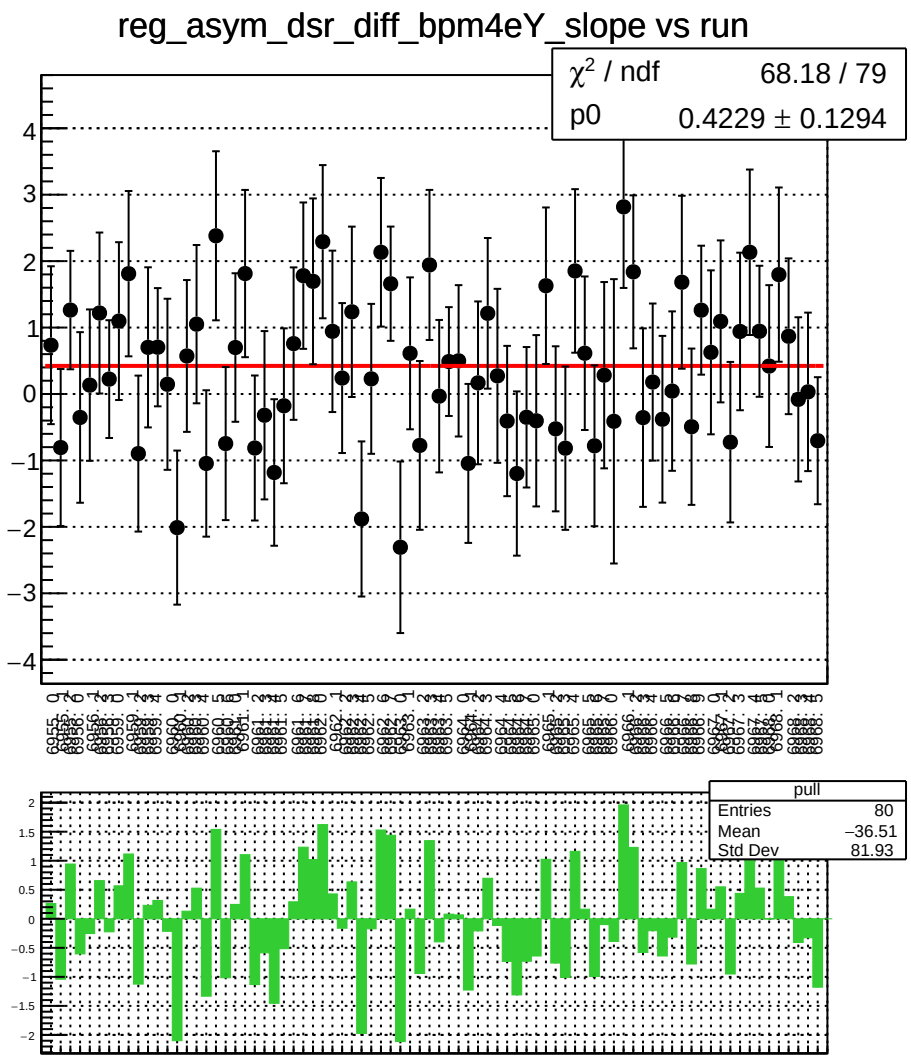

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 90.92 / 79
p0 0.07659 ± 0.1648
pull
Entries 80
Mean −191.5
Std Dev 225.7
pull1D
Entries 80
Mean 0.01179
Std Dev 1.066

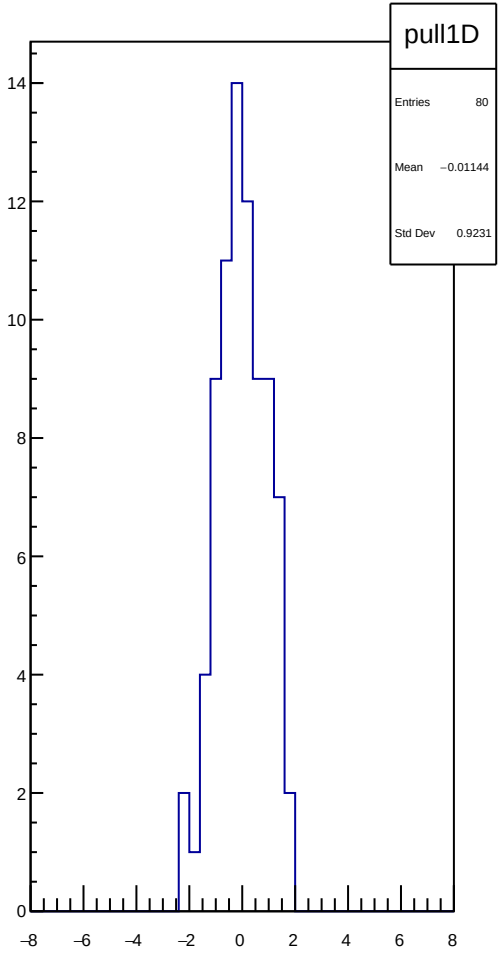

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 67.97 / 79
p0 −0.3703 ± 0.1138
pull
Entries 80
Mean −56.7
Std Dev 108.3

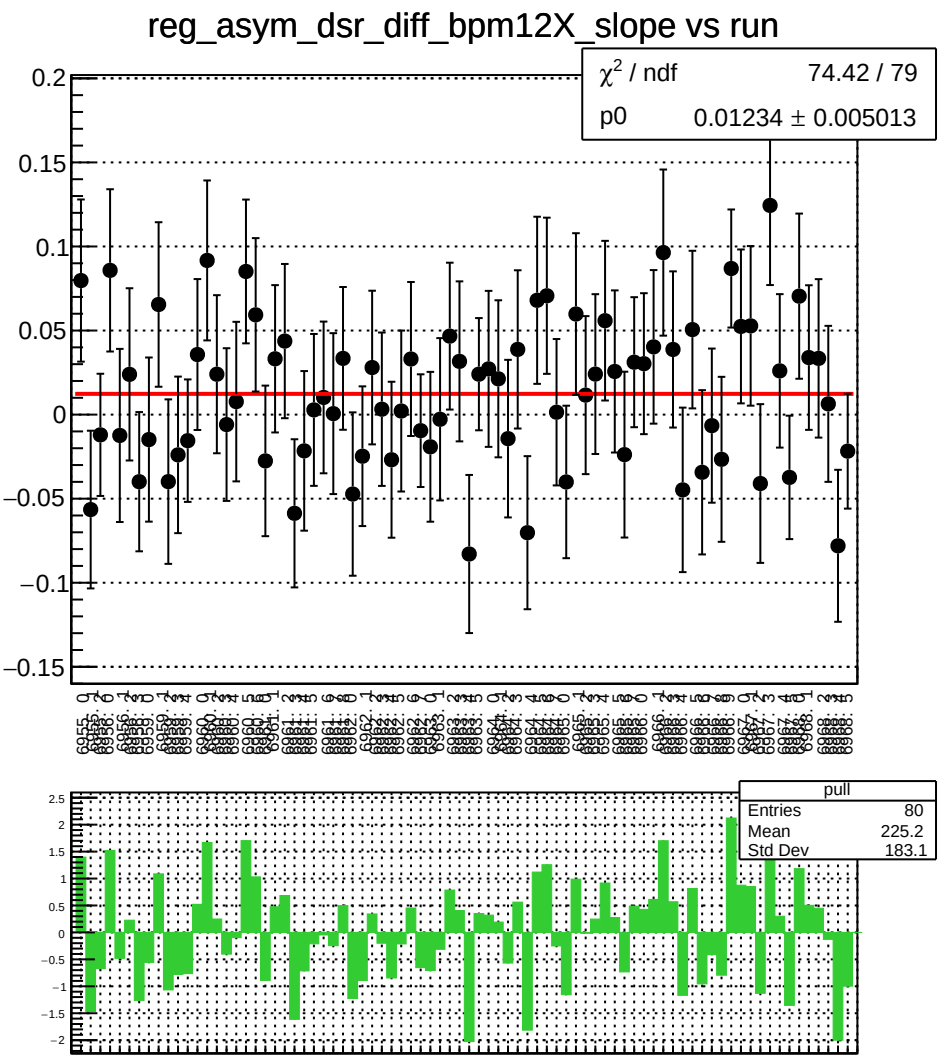

pull1D
Entries 80
Mean 0.01018
Std Dev 0.9217

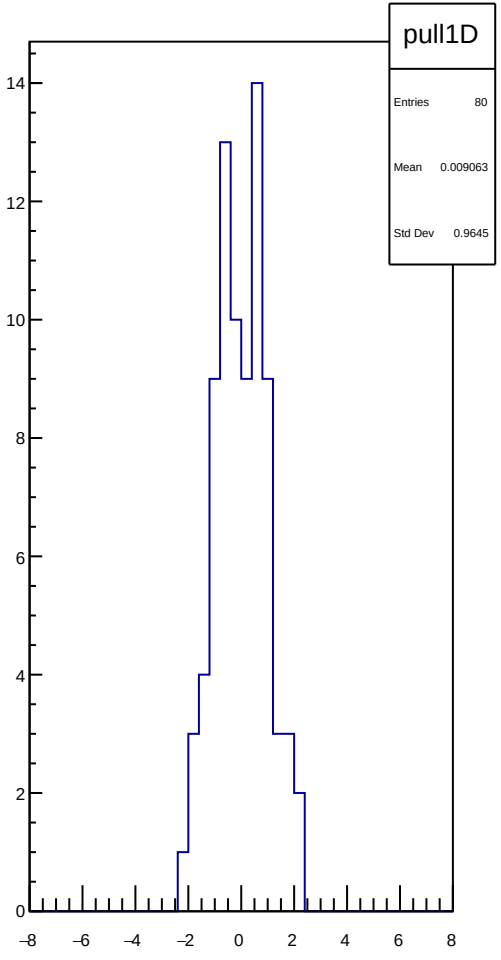

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 91.6 / 79
p0 −0.09311 ± 0.1526
pull
Entries 80
Mean −176
Std Dev 210.2

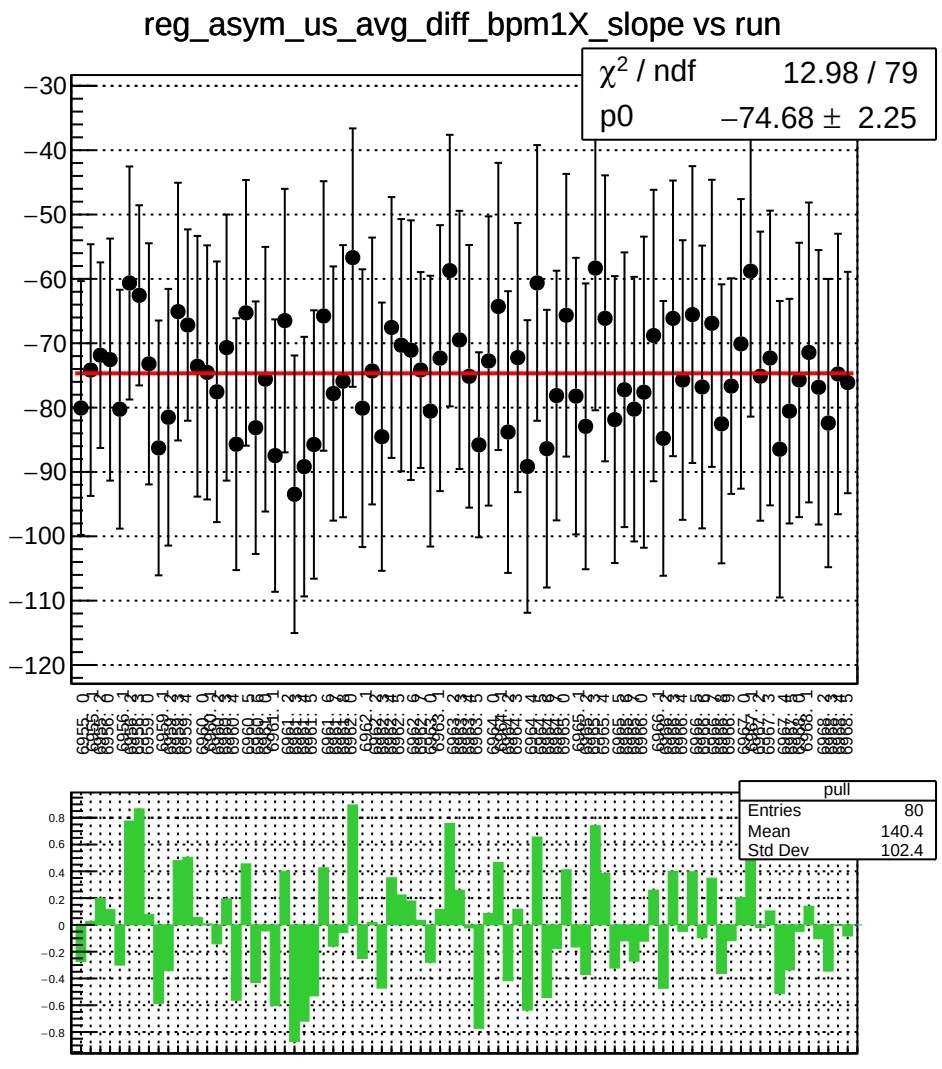

pull1D
Entries 80
Mean −0.01239
Std Dev 1.07

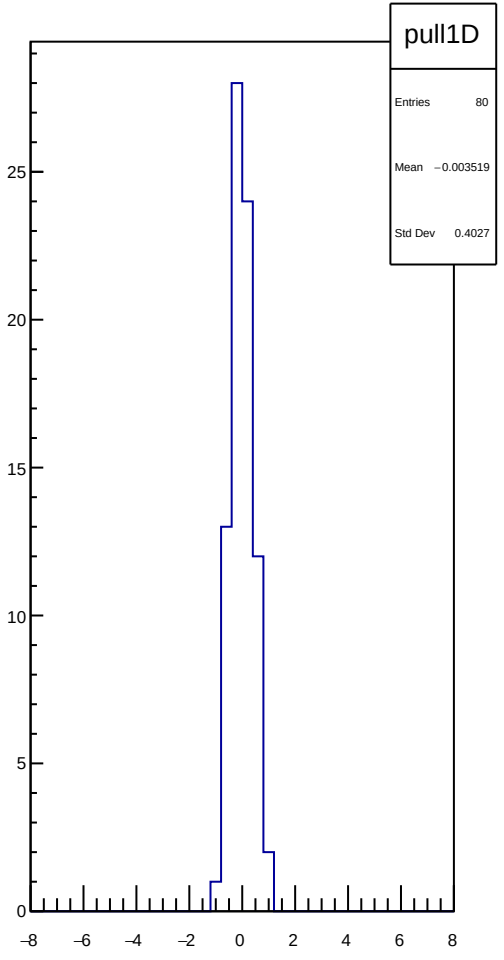

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 68.18 / 79
p0 0.4229 ± 0.1294
pull
Entries 80
Mean −36.51
Std Dev 81.93

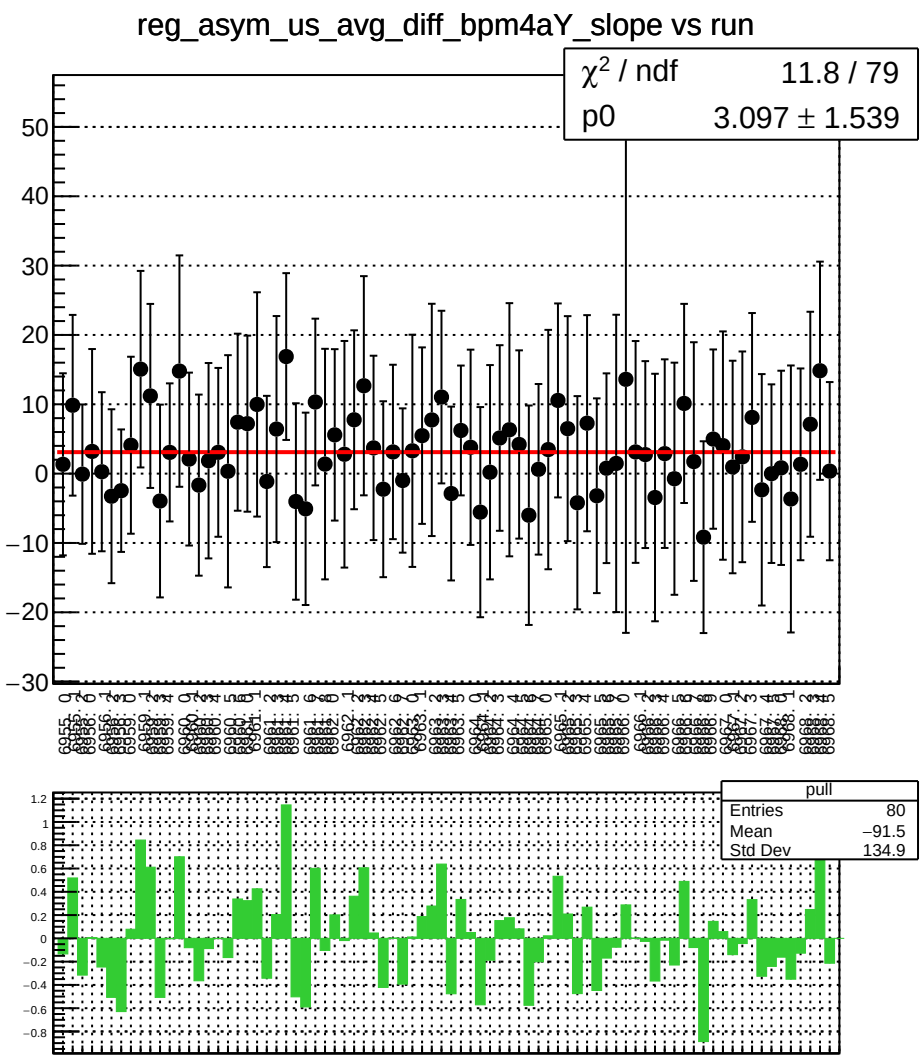

pull1D
Entries 80
Mean −0.01144
Std Dev 0.9231

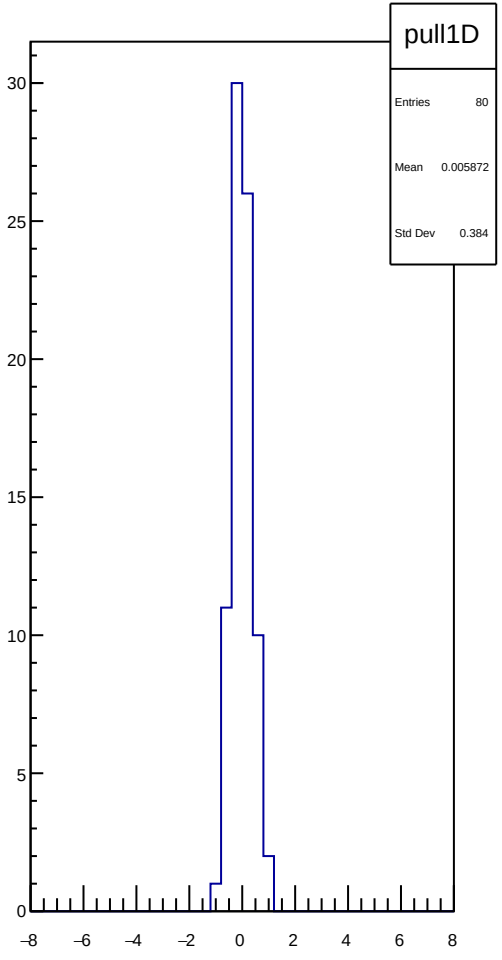

reg_asym_dsr_diff_bpm12X_slope vs run
χ^2 / ndf 74.42 / 79
p0 0.01234 ± 0.005013
pull
Entries 80
Mean 225.2
Std Dev 183.1

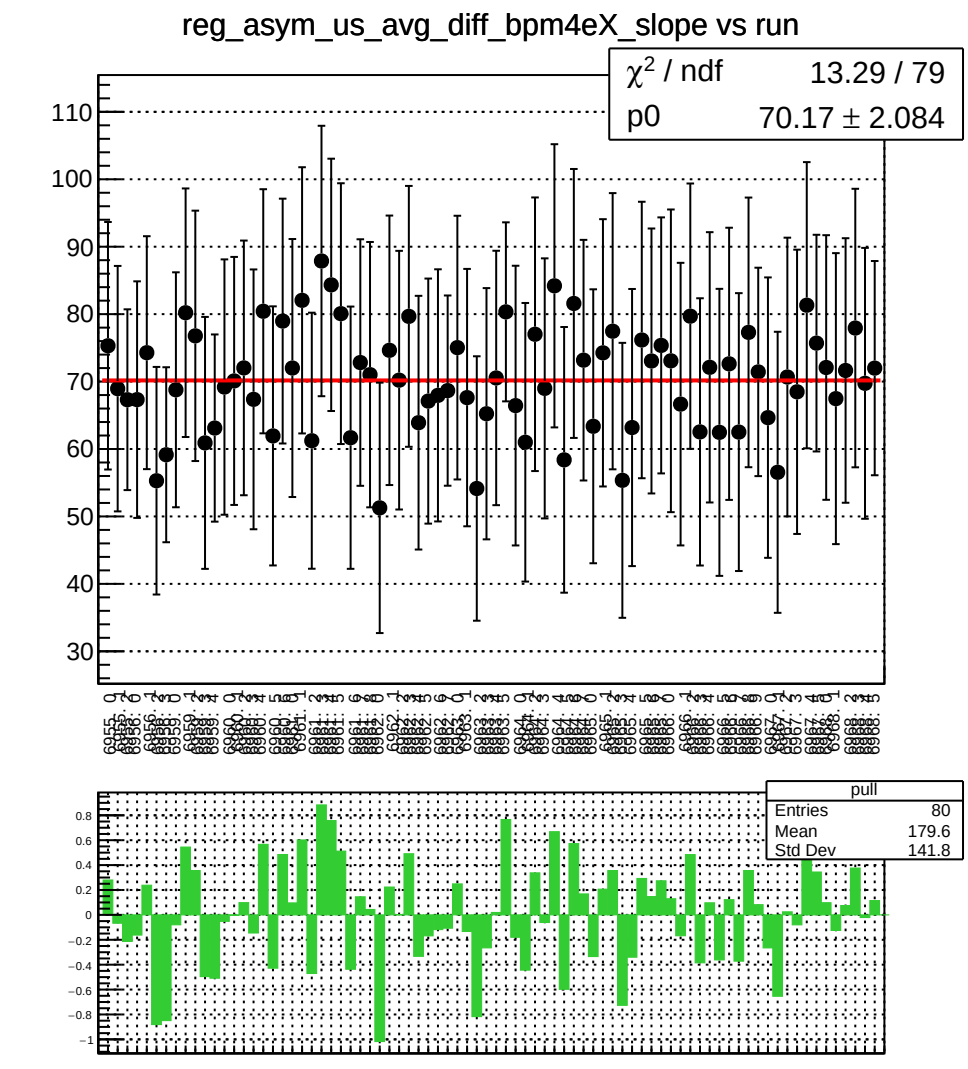

pull1D
Entries 80
Mean 0.009063
Std Dev 0.9645

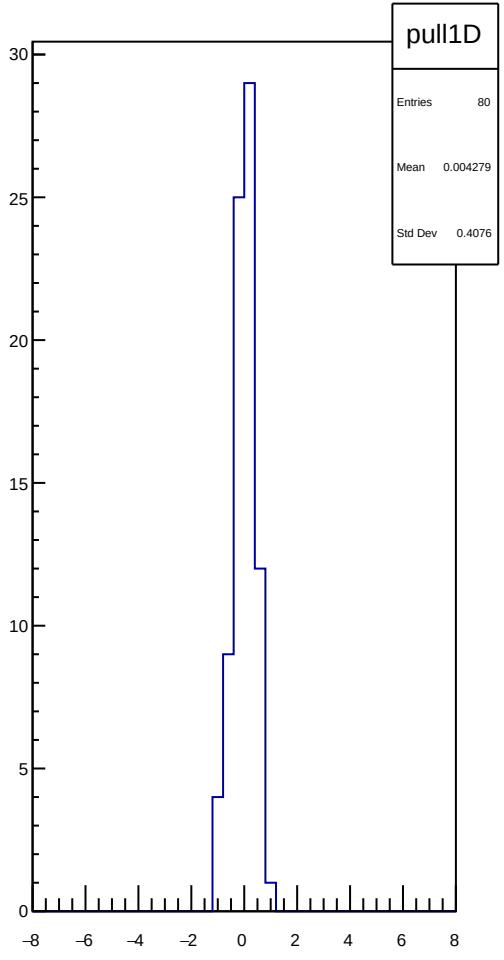

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 12.98 / 79
p0 −74.68 ± 2.25
pull
Entries 80
Mean 140.4
Std Dev 102.4

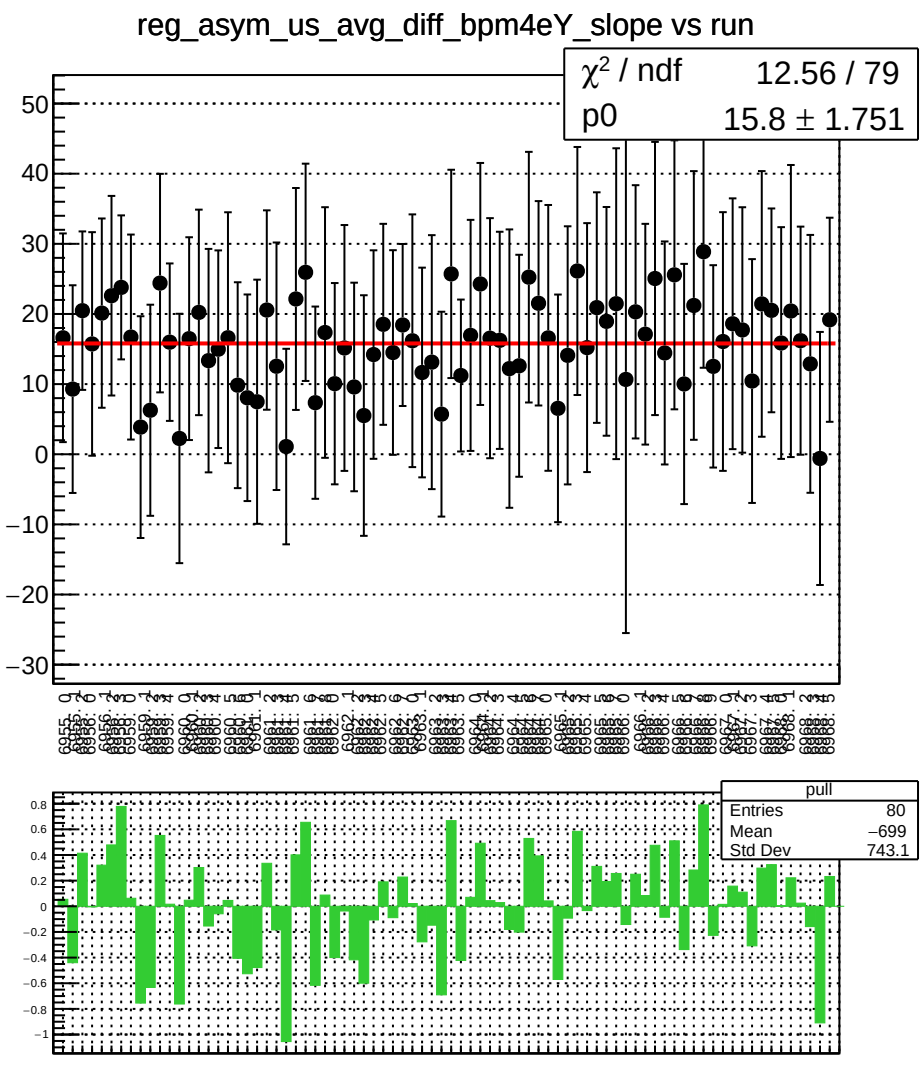

pull1D
Entries 80
Mean −0.003519
Std Dev 0.4027

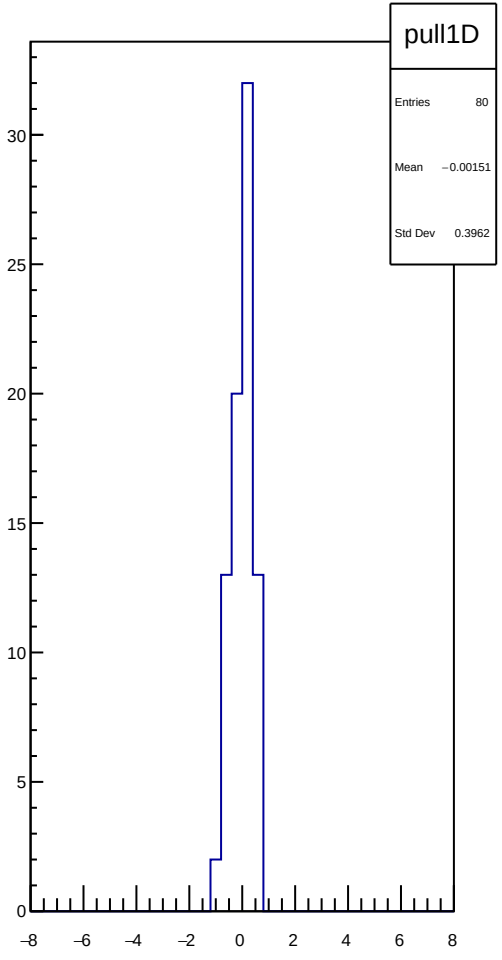

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.8 / 79
p0 3.097 ± 1.539
pull
Entries 80
Mean −91.5
Std Dev 134.9

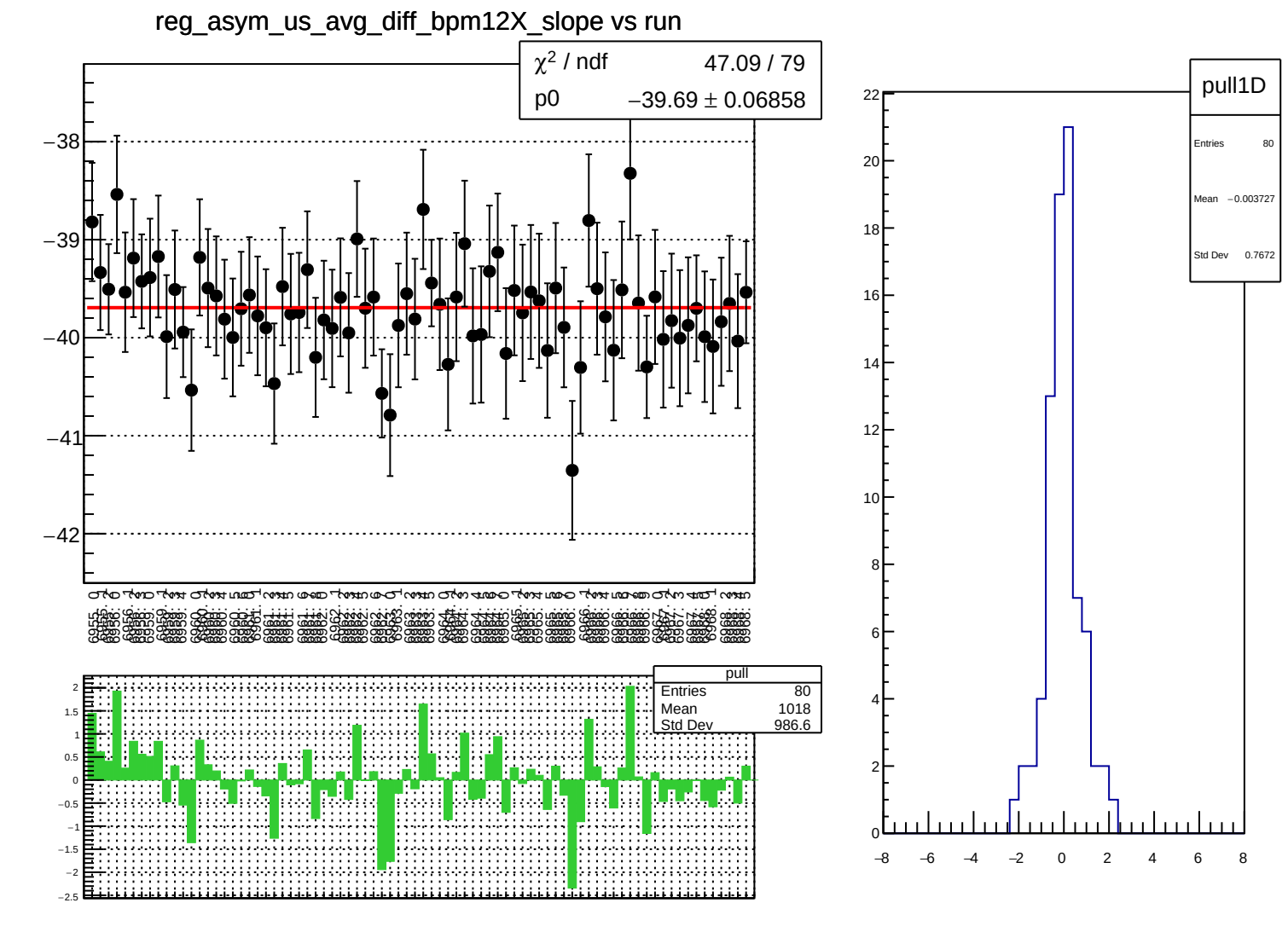

pull1D
Entries 80
Mean 0.005872
Std Dev 0.384

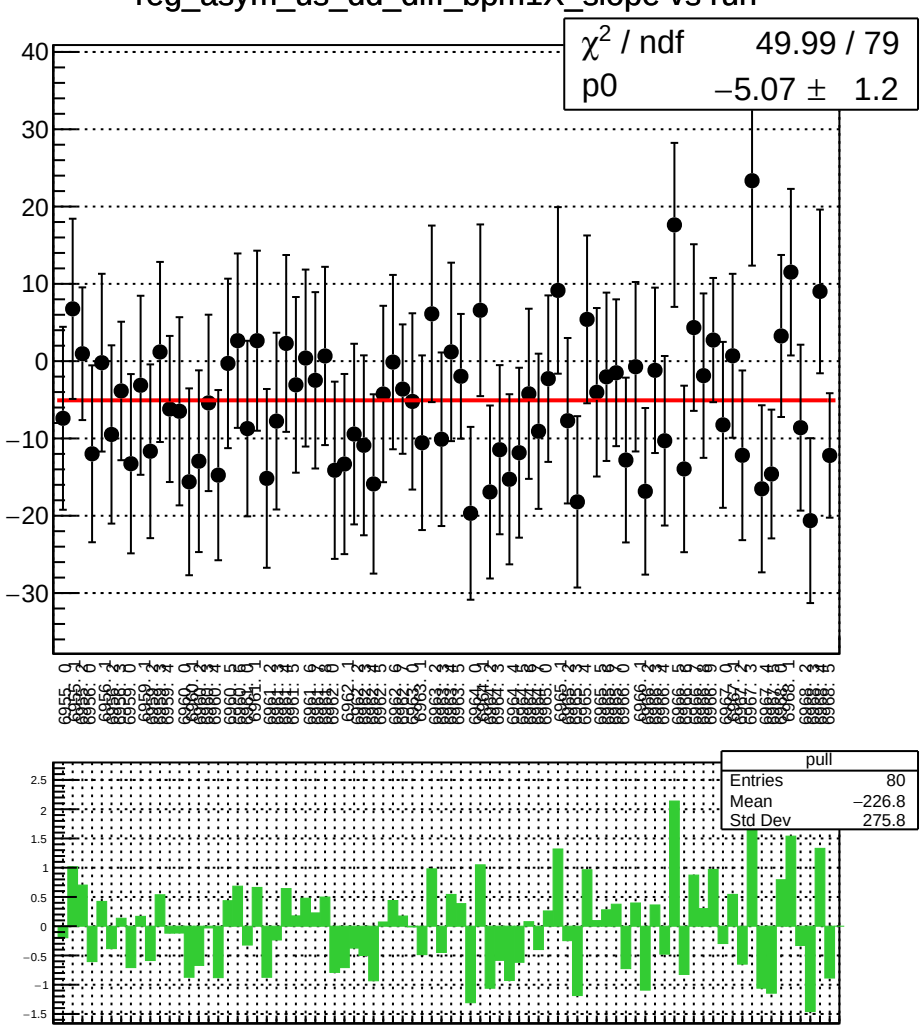

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.29 / 79
p0 70.17 ± 2.084
pull
Entries 80
Mean 179.6
Std Dev 141.8

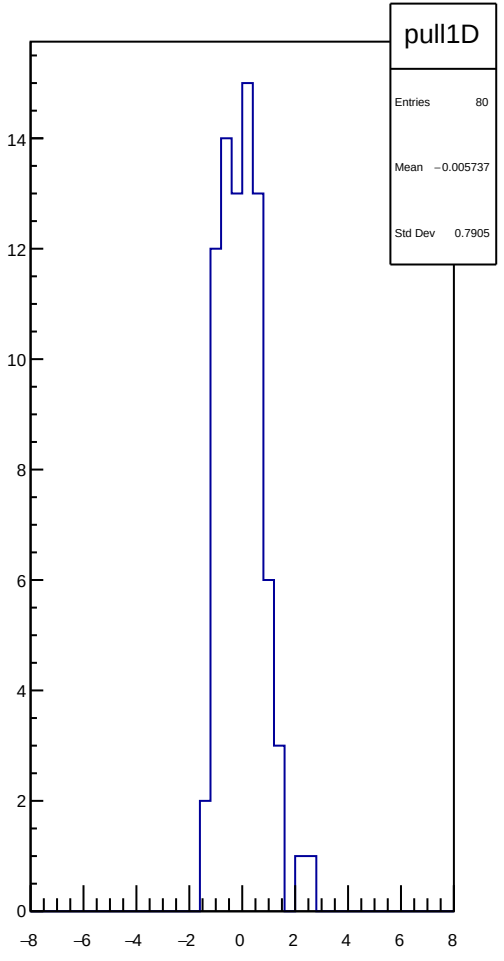

pull1D
Entries 80
Mean 0.004279
Std Dev 0.4076

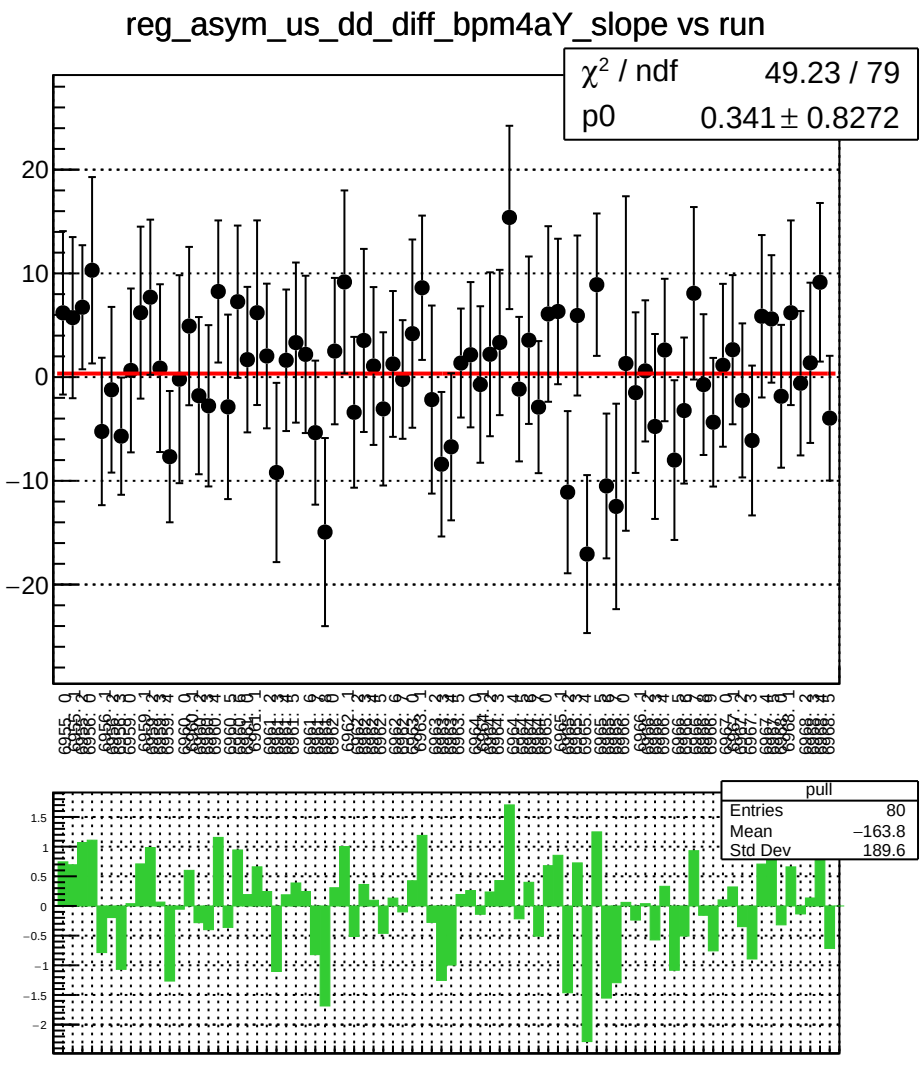

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.56 / 79
p0 15.8 ± 1.751
pull
Entries 80
Mean −699
Std Dev 743.1

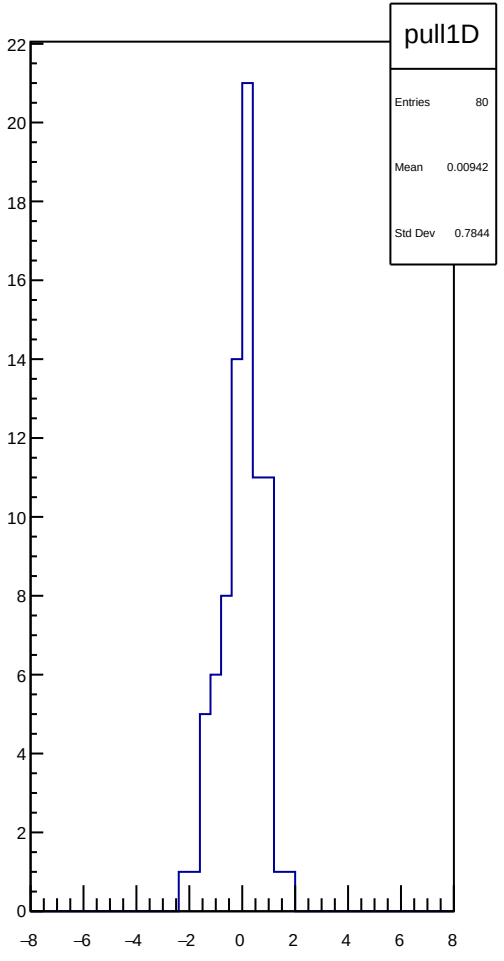

pull1D
Entries 80
Mean −0.00151
Std Dev 0.3962

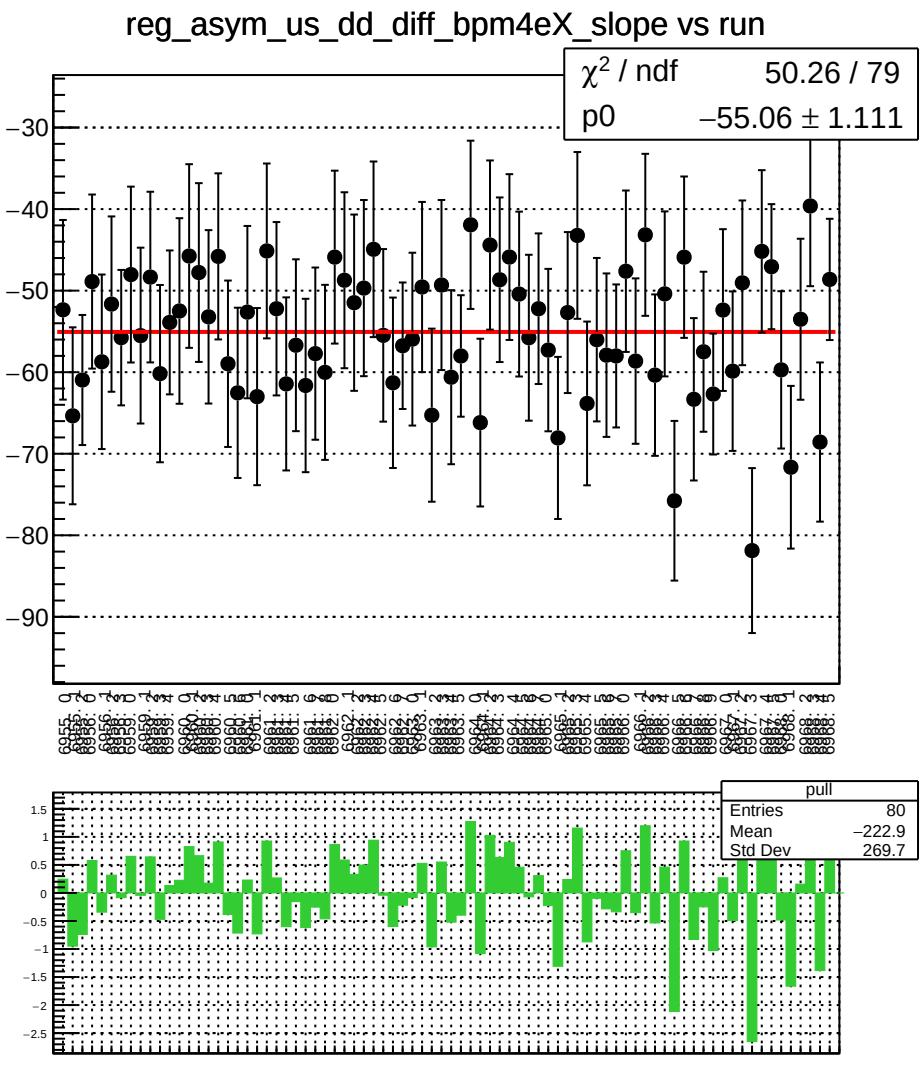

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 47.09 / 79
p0 −39.69 ± 0.06858
pull
Entries 80
Mean 1018
Std Dev 986.6
pull1D
Entries 80
Mean −0.003727
Std Dev 0.7672

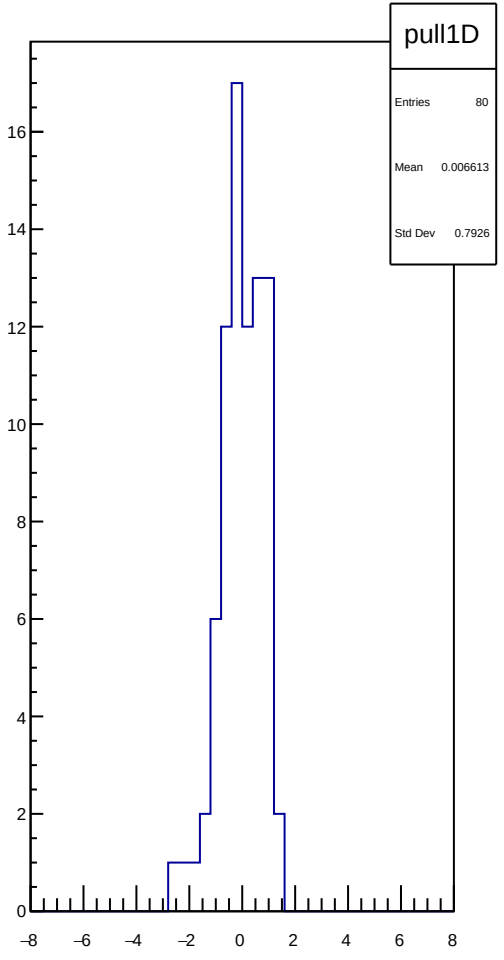

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 49.99 / 79
p0 −5.07 ± 1.2
pull
Entries 80
Mean −226.8
Std Dev 275.8

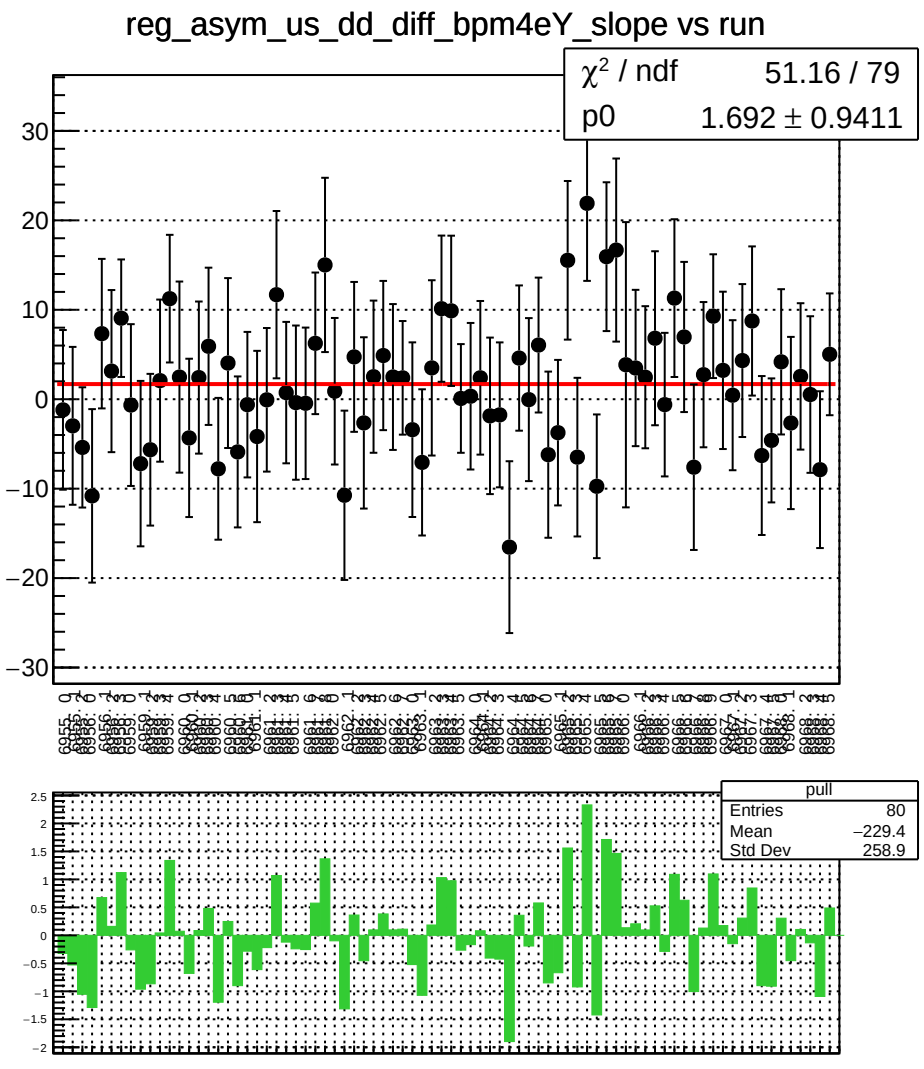

pull1D
Entries 80
Mean −0.005737
Std Dev 0.7905

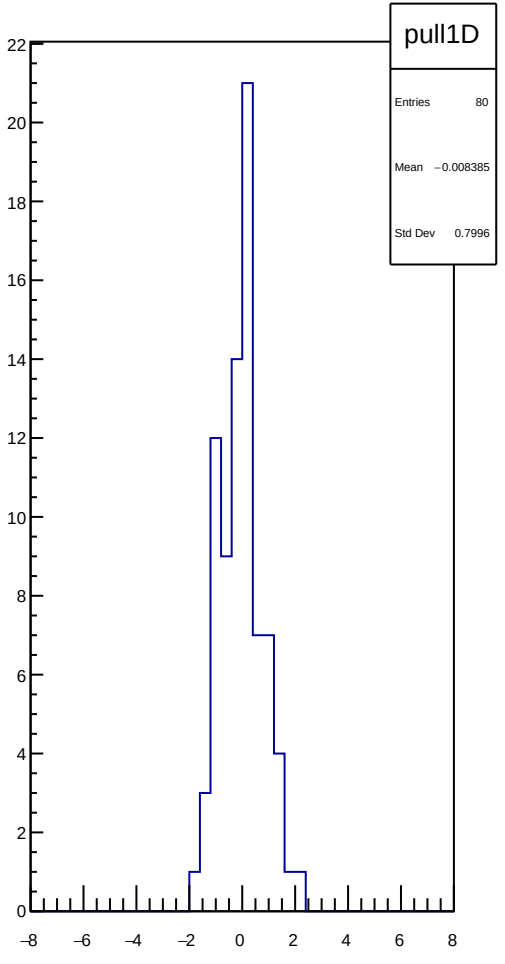

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.23 / 79
p0 0.341 ± 0.8272
pull
Entries 80
Mean −163.8
Std Dev 189.6

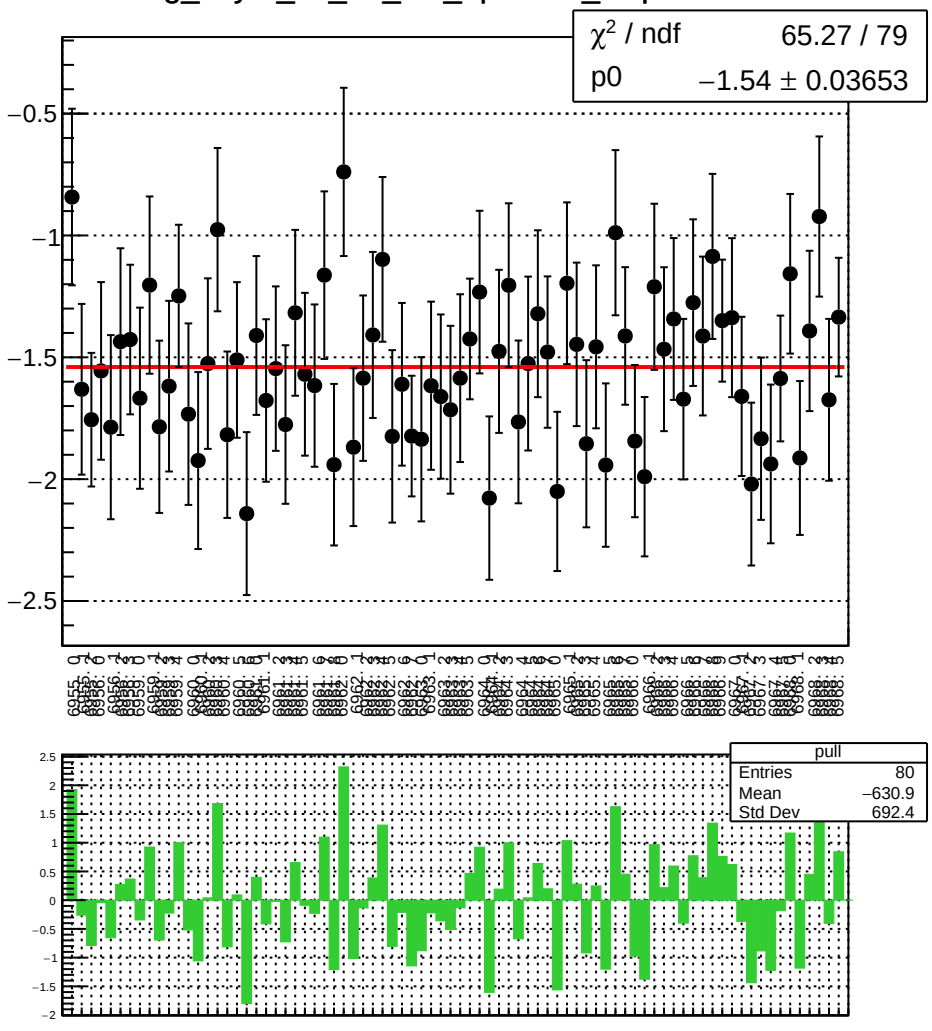

pull1D
Entries 80
Mean 0.00942
Std Dev 0.7844

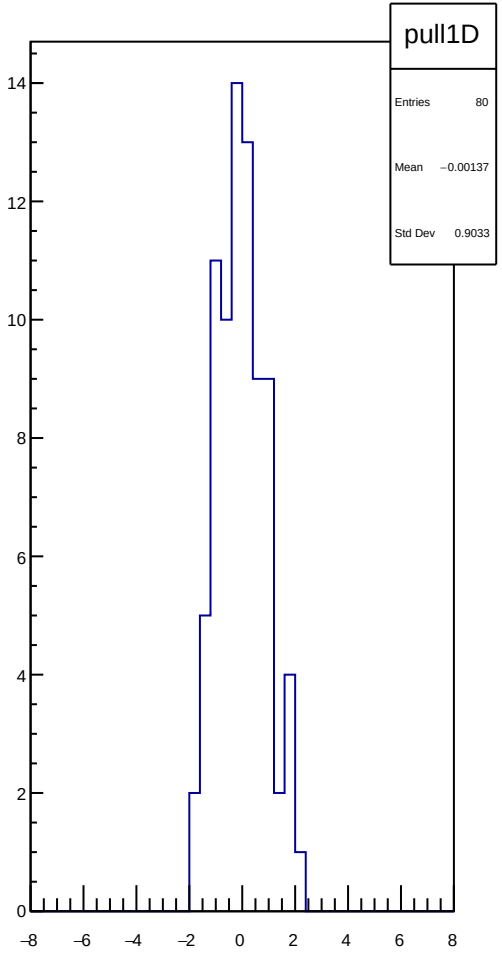

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.26 / 79
p0 −55.06 ± 1.111
pull
Entries 80
Mean −222.9
Std Dev 269.7

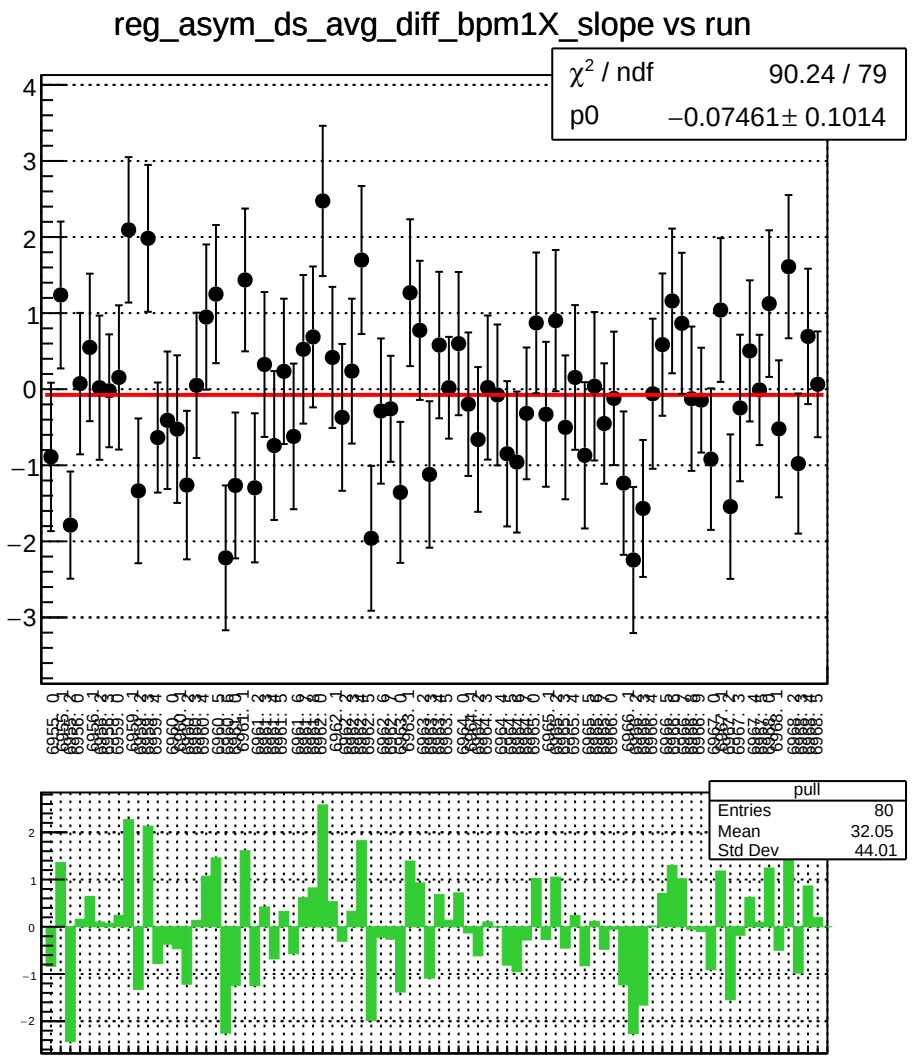

pull1D
Entries 80
Mean 0.006613
Std Dev 0.7926

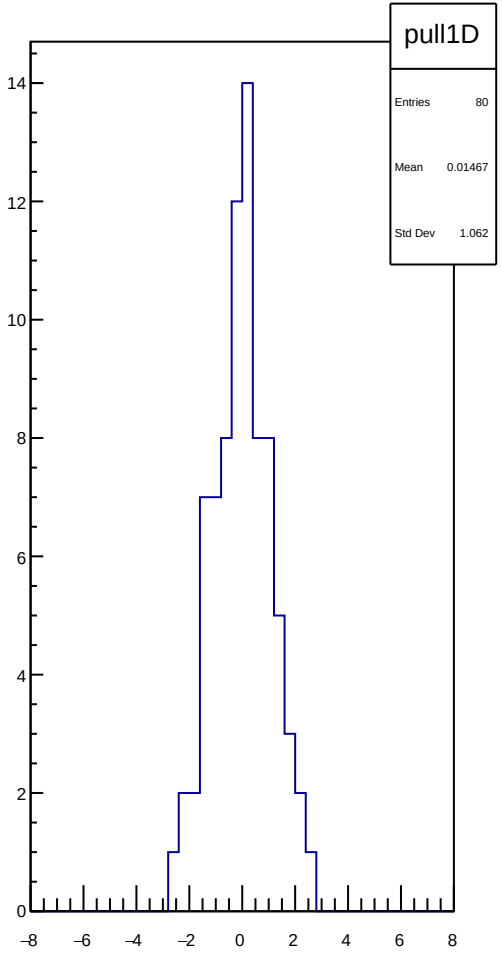

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.16 / 79
p0 1.692 ± 0.9411
pull
Entries 80
Mean −229.4
Std Dev 258.9

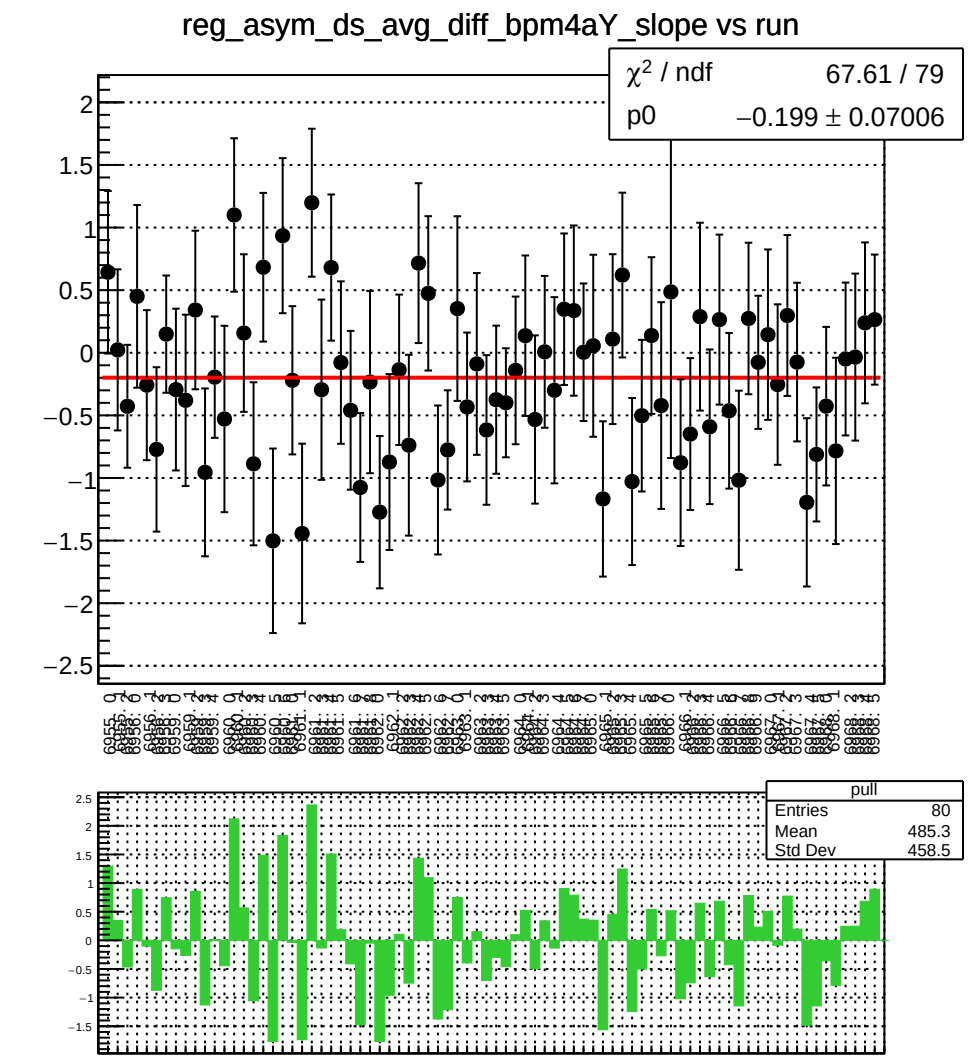

pull1D
Entries 80
Mean −0.008385
Std Dev 0.7996

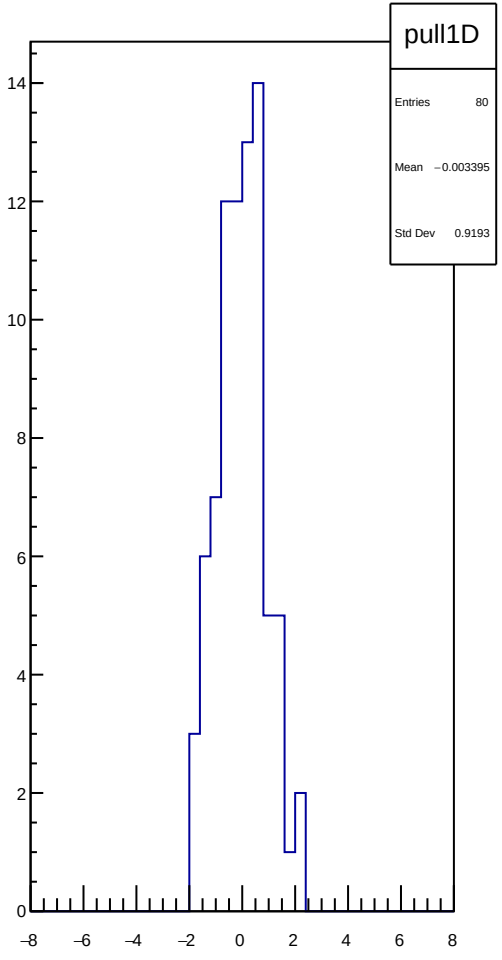

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 65.27 / 79
p0 −1.54 ± 0.03653
pull
Entries 80
Mean −630.9
Std Dev 692.4

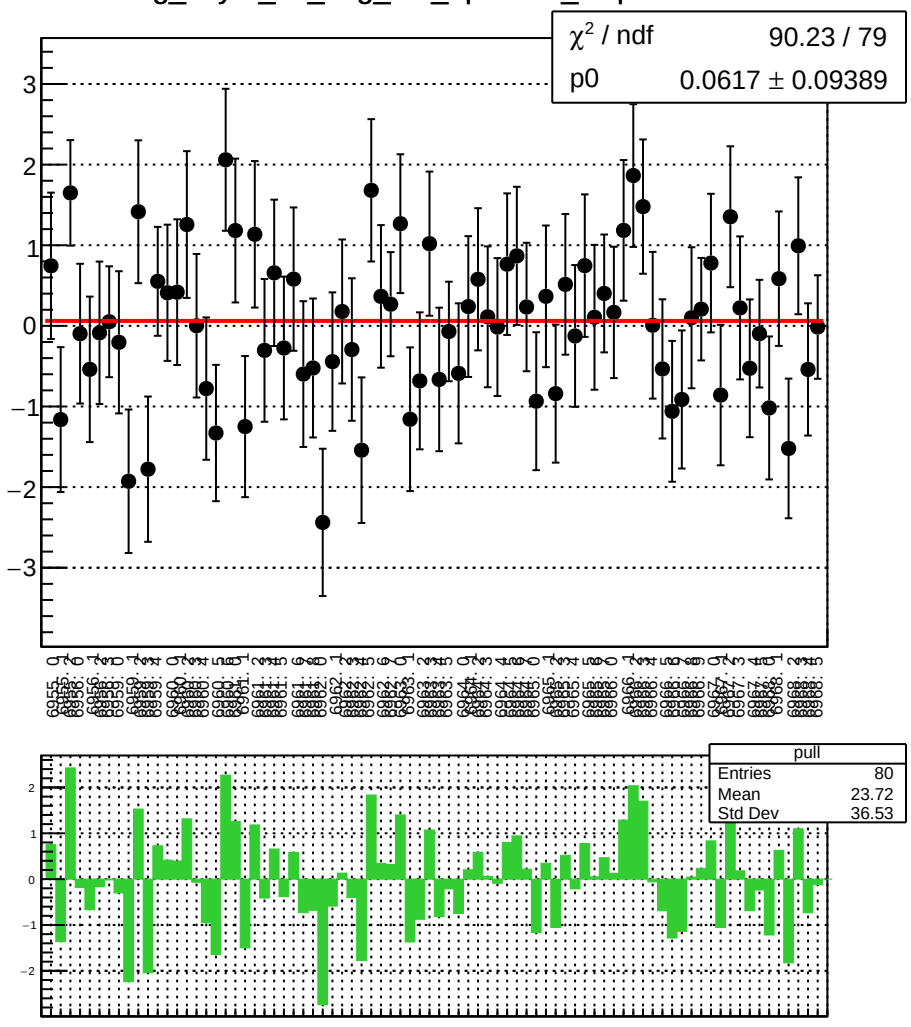

pull1D
Entries 80
Mean −0.00137
Std Dev 0.9033

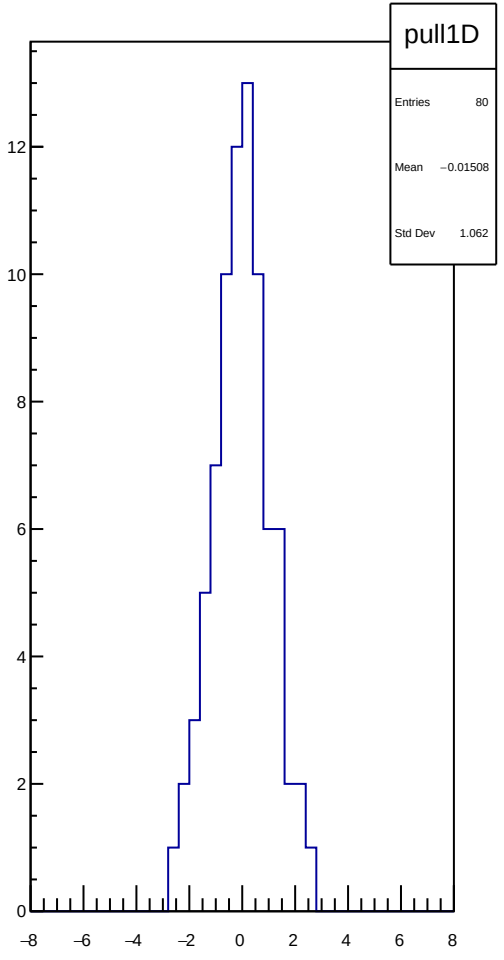

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 90.24 / 79
p0 −0.07461± 0.1014
pull
Entries 80
Mean 32.05
Std Dev 44.01

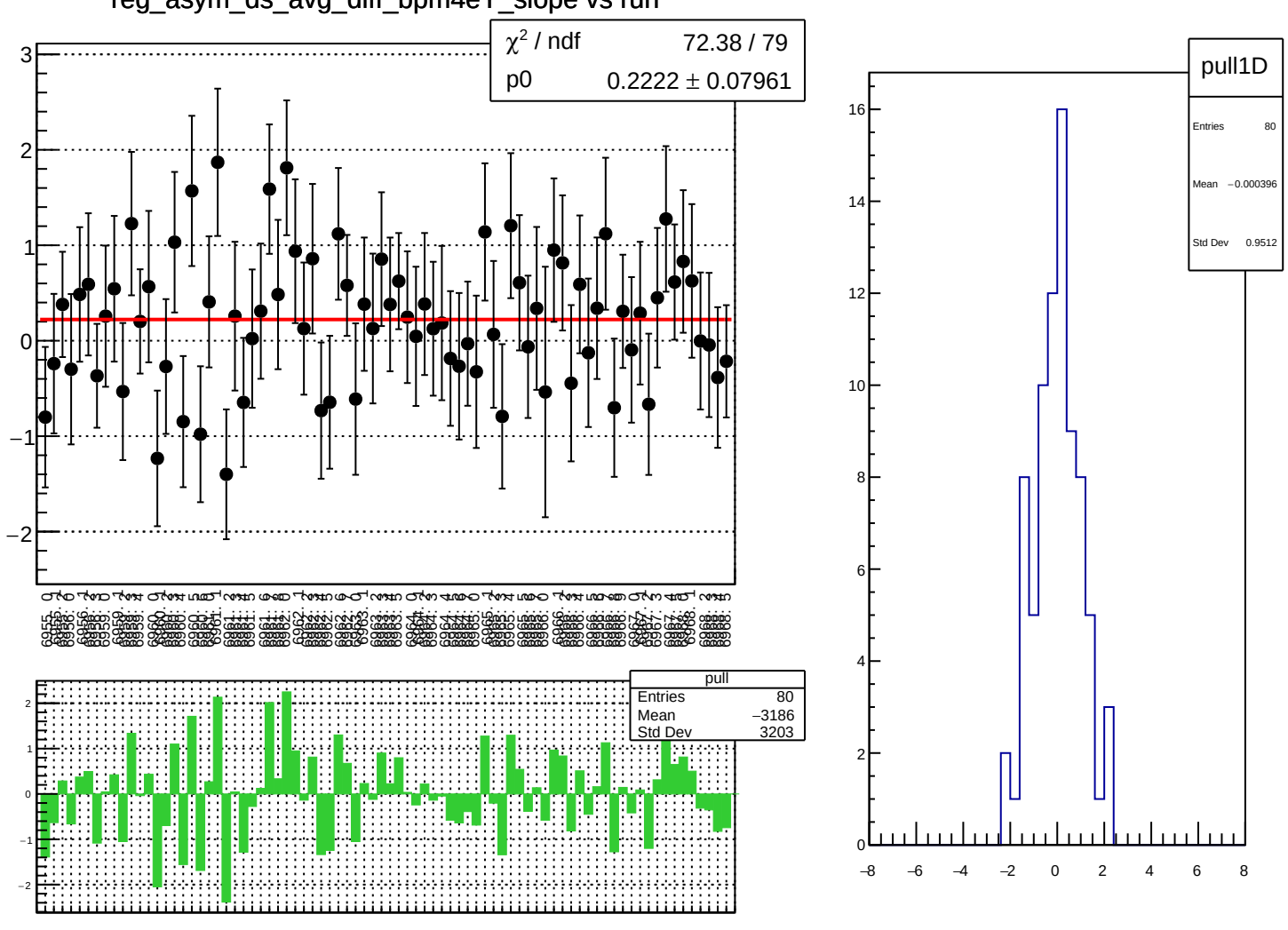

pull1D
Entries 80
Mean 0.01467
Std Dev 1.062

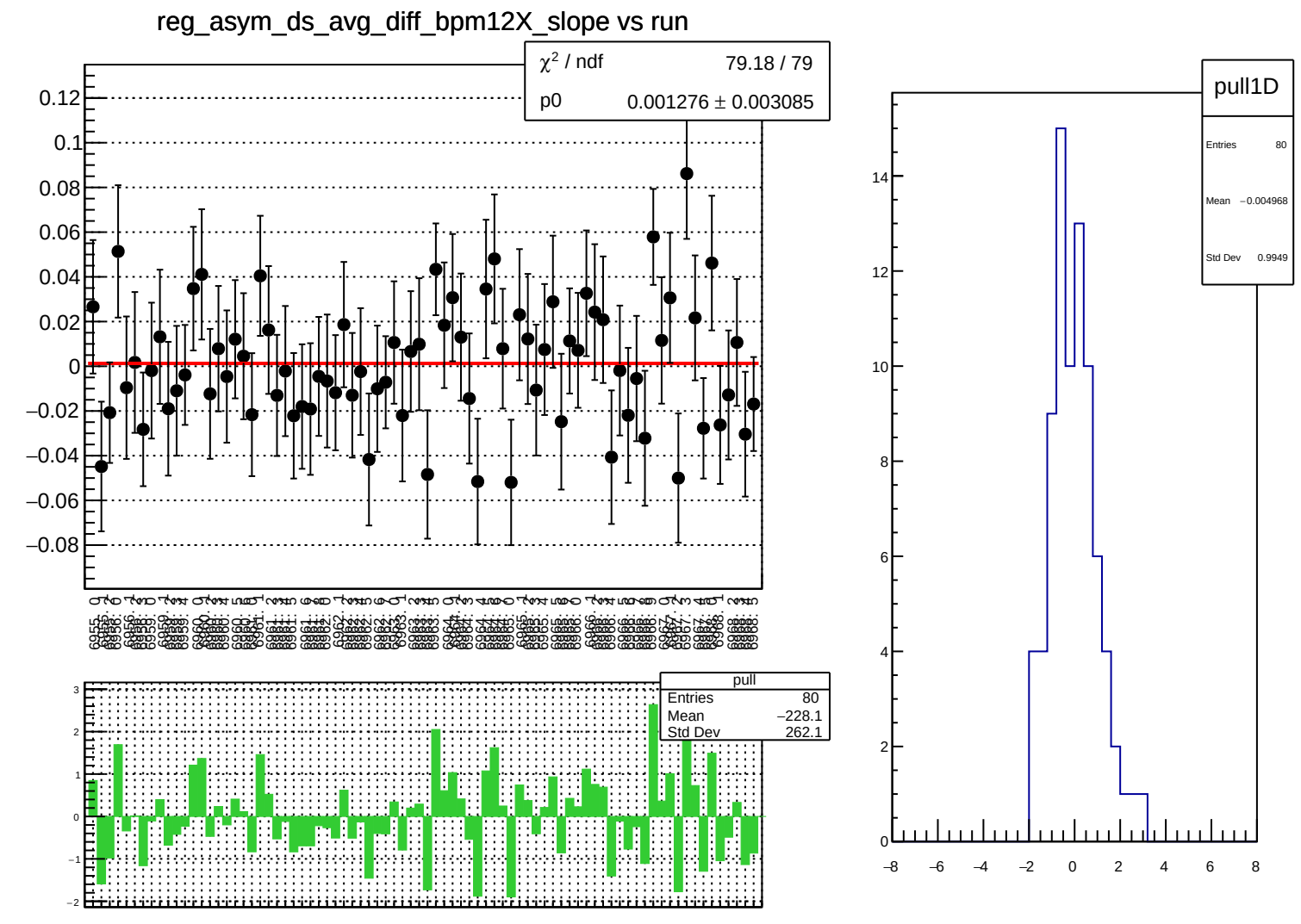

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 67.61 / 79
p0 −0.199 ± 0.07006
pull
Entries 80
Mean 485.3
Std Dev 458.5

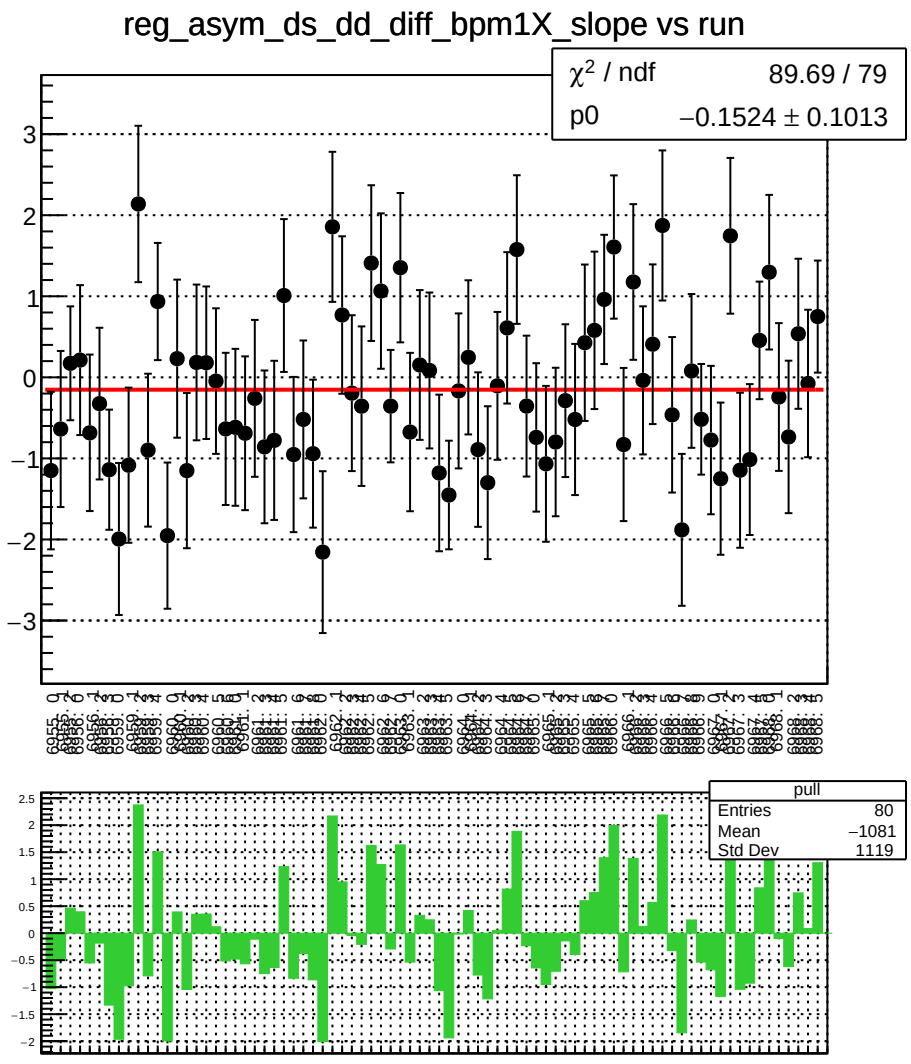

pull1D
Entries 80
Mean −0.003395
Std Dev 0.9193

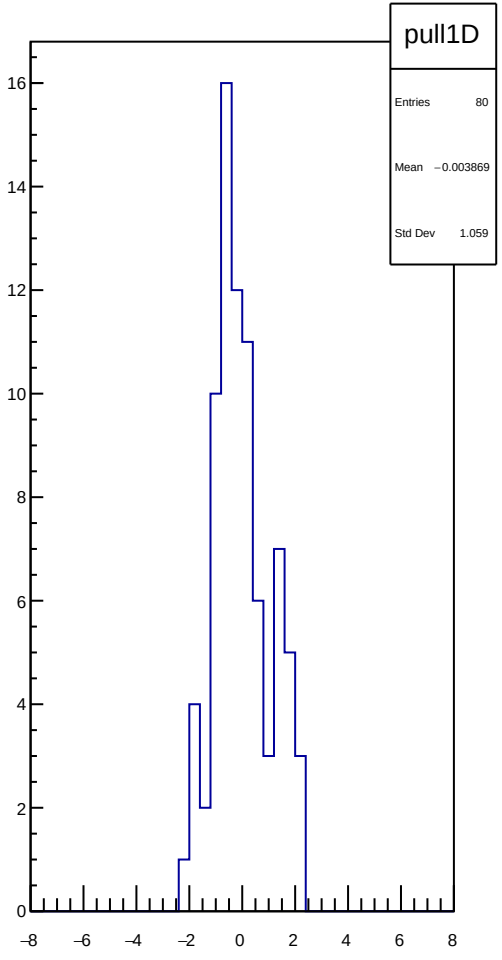

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 90.23 / 79
p0 0.0617 ± 0.09389
pull
Entries 80
Mean 23.72
Std Dev 36.53

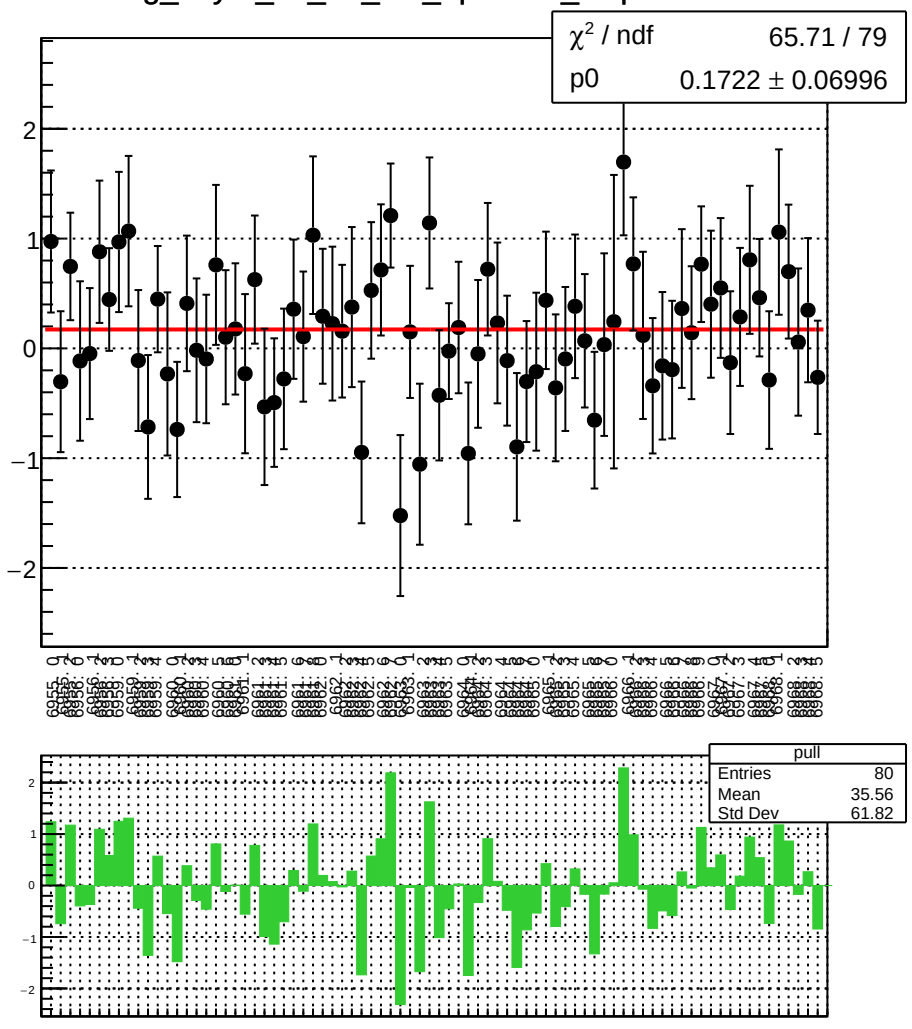

pull1D
Entries 80
Mean −0.01508
Std Dev 1.062

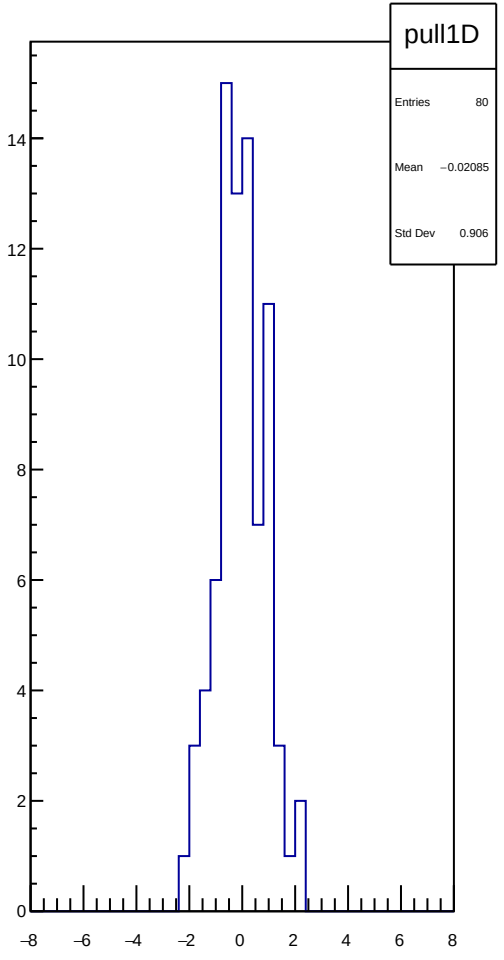

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 72.38 / 79
p0 0.2222 ± 0.07961
pull
Entries 80
Mean −3186
Std Dev 3203
pull1D
Entries 80
Mean −0.000396
Std Dev 0.9512

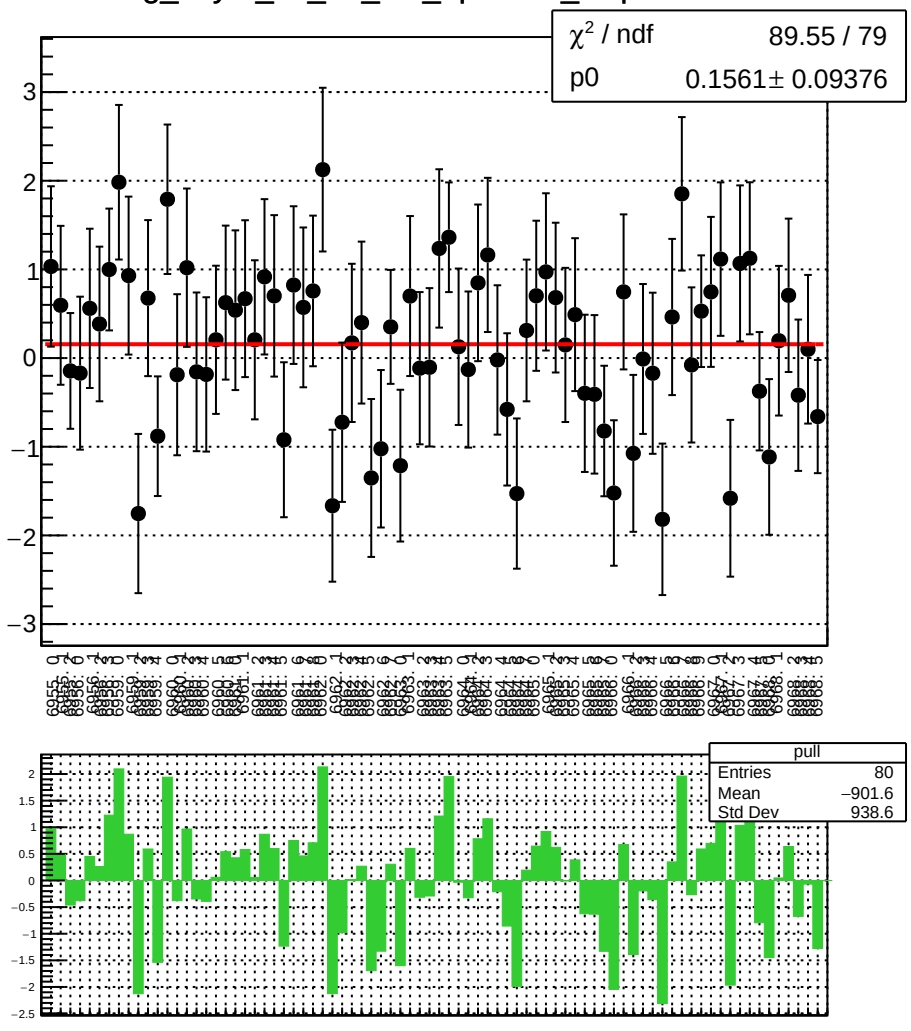

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 79.18 / 79
p0 0.001276 ± 0.003085
pull
Entries 80
Mean −228.1
Std Dev 262.1
pull1D
Entries 80
Mean −0.004968
Std Dev 0.9949

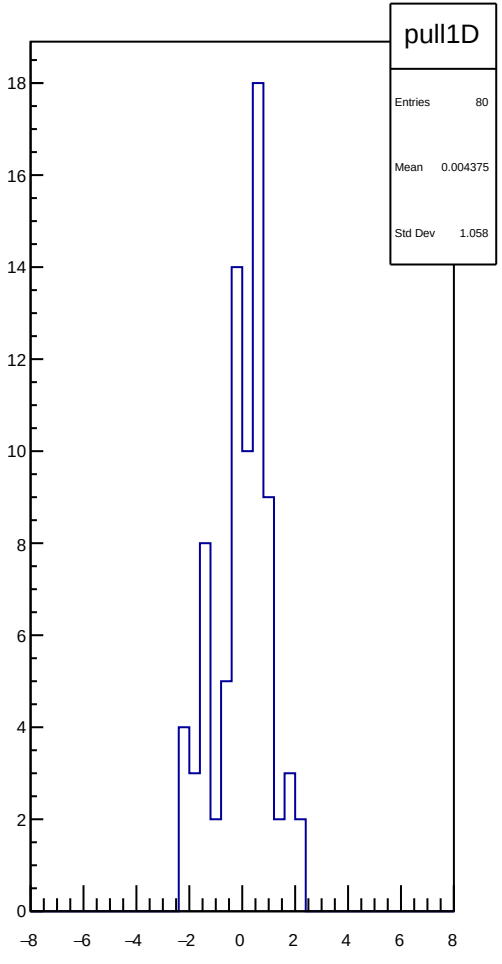

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 89.69 / 79
p0 −0.1524 ± 0.1013
pull
Entries 80
Mean −1081
Std Dev 1119

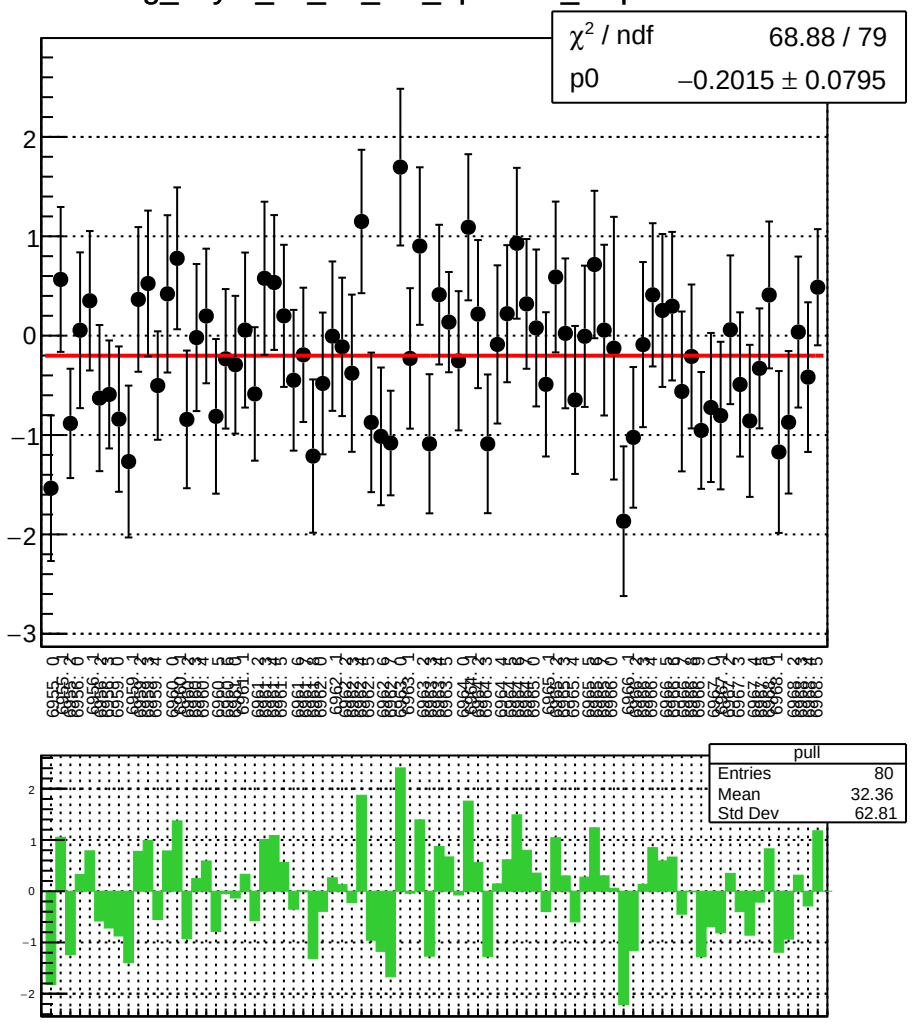

pull1D
Entries 80
Mean −0.003869
Std Dev 1.059

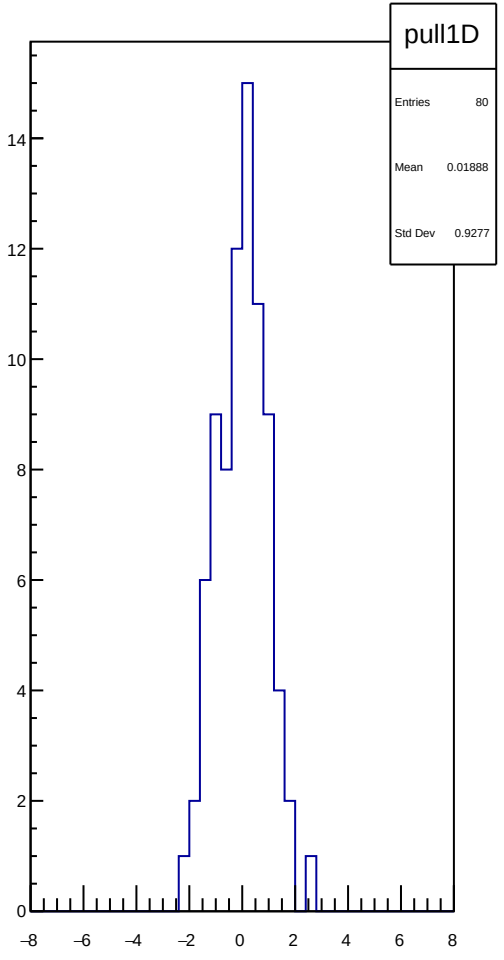

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.71 / 79
p0 0.1722 ± 0.06996
pull
Entries 80
Mean 35.56
Std Dev 61.82

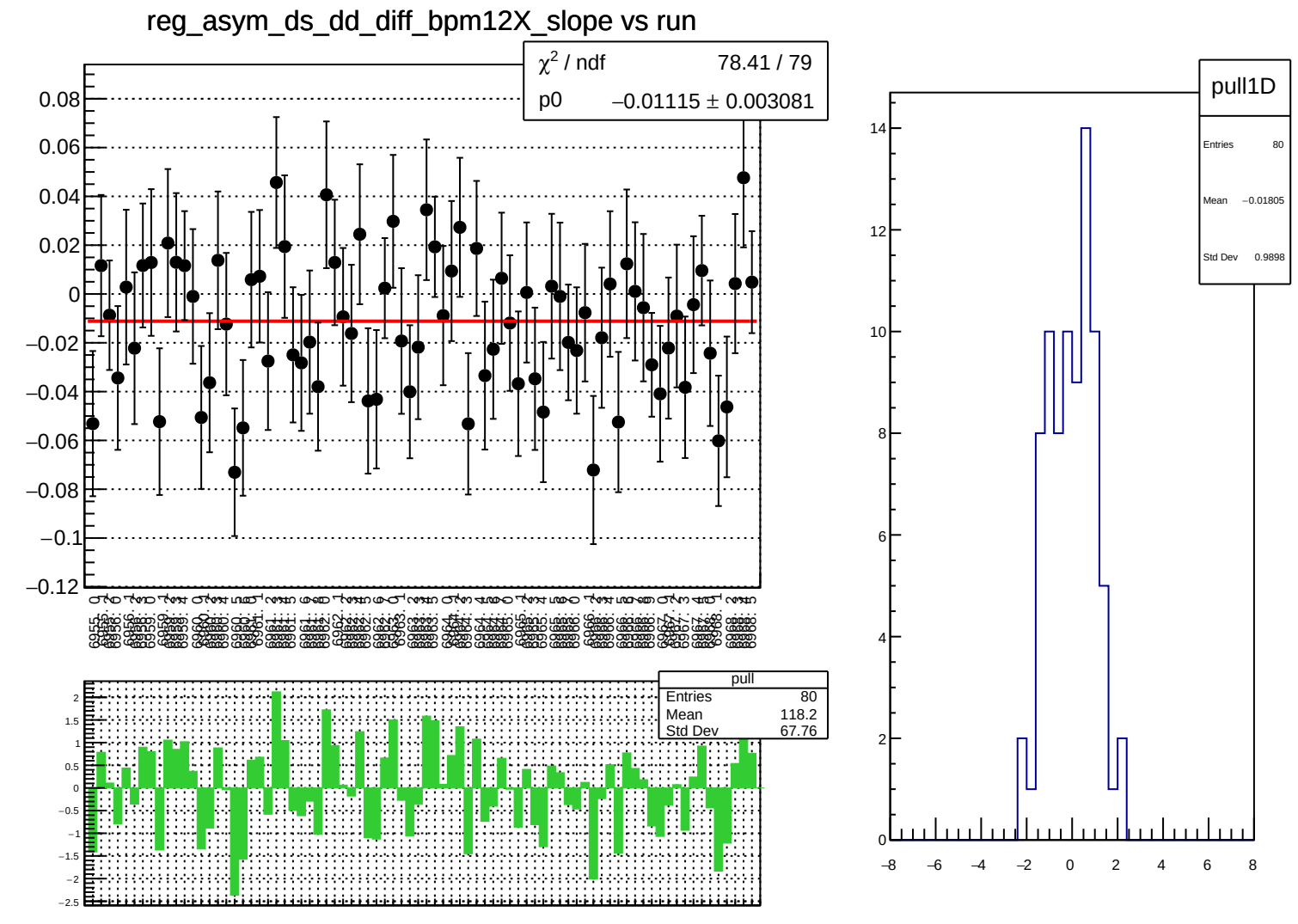

pull1D
Entries 80
Mean −0.02085
Std Dev 0.906

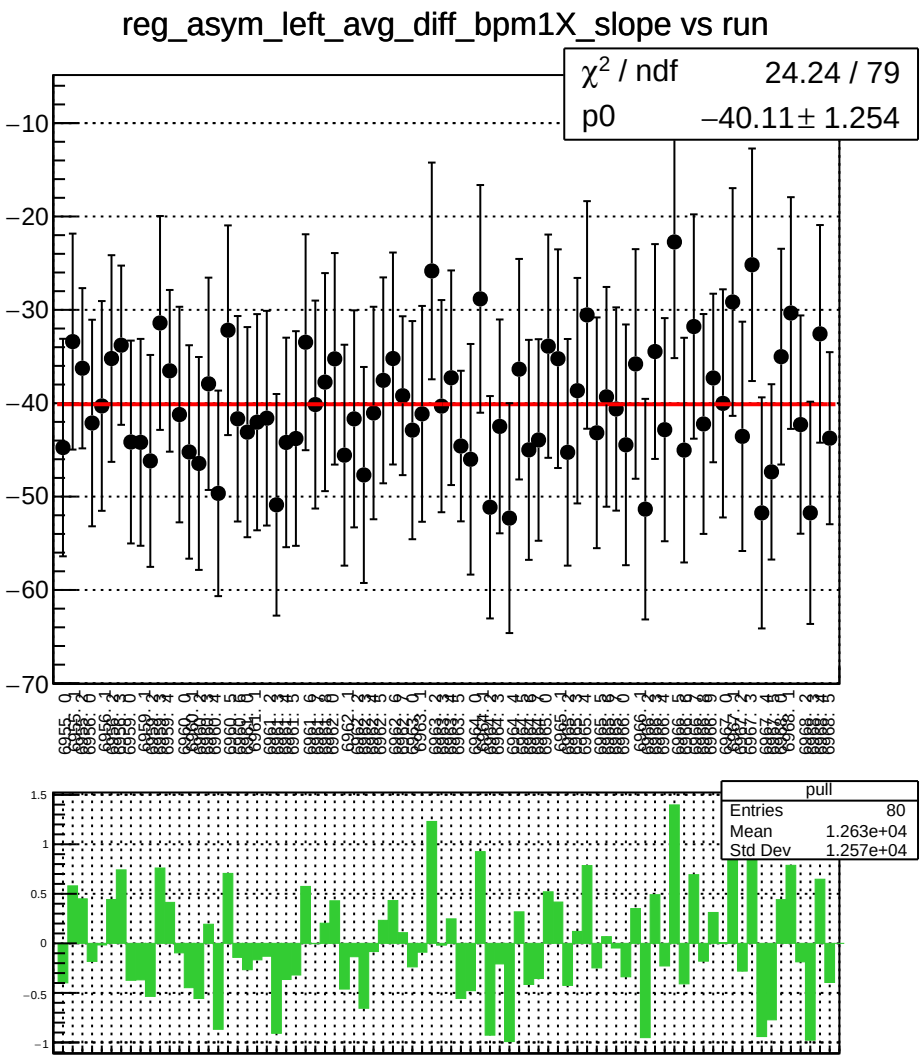

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 89.55 / 79
p0 0.1561± 0.09376
pull
Entries 80
Mean −901.6
Std Dev 938.6

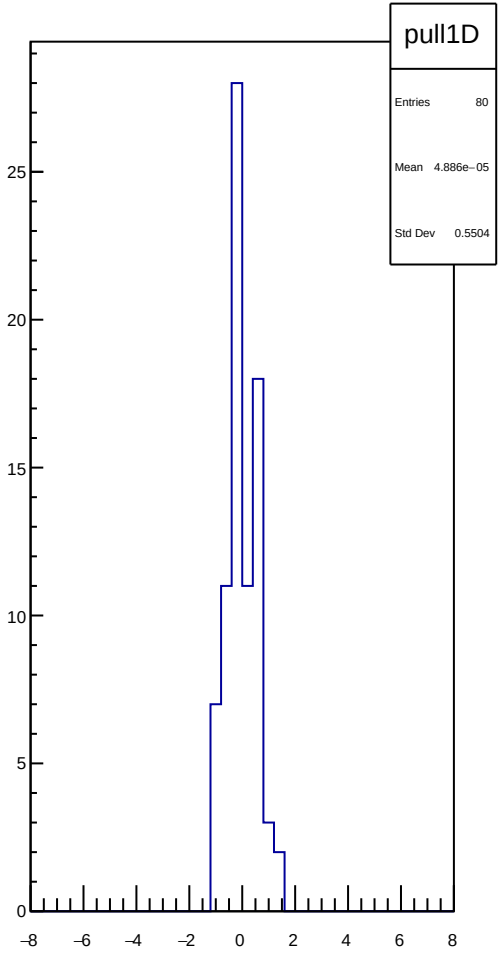

pull1D
Entries 80
Mean 0.004375
Std Dev 1.058

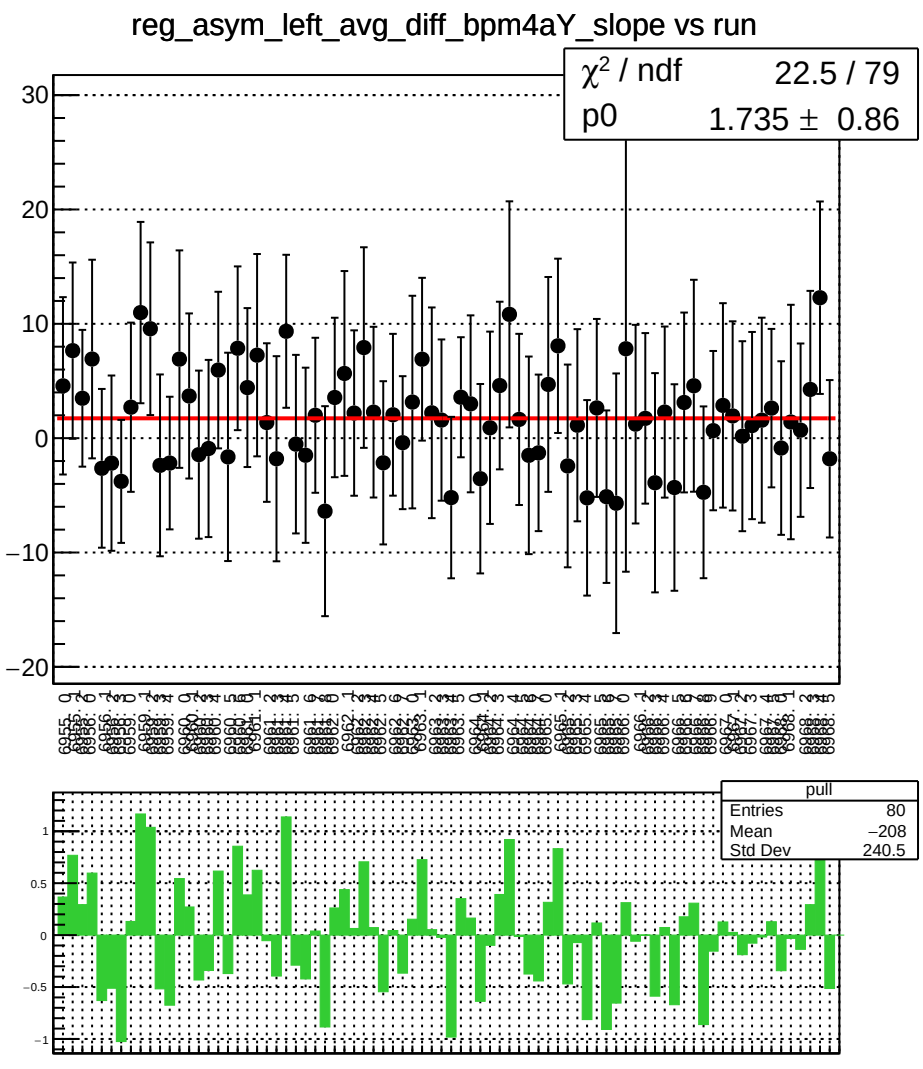

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 68.88 / 79
p0 −0.2015 ± 0.0795
pull
Entries 80
Mean 32.36
Std Dev 62.81

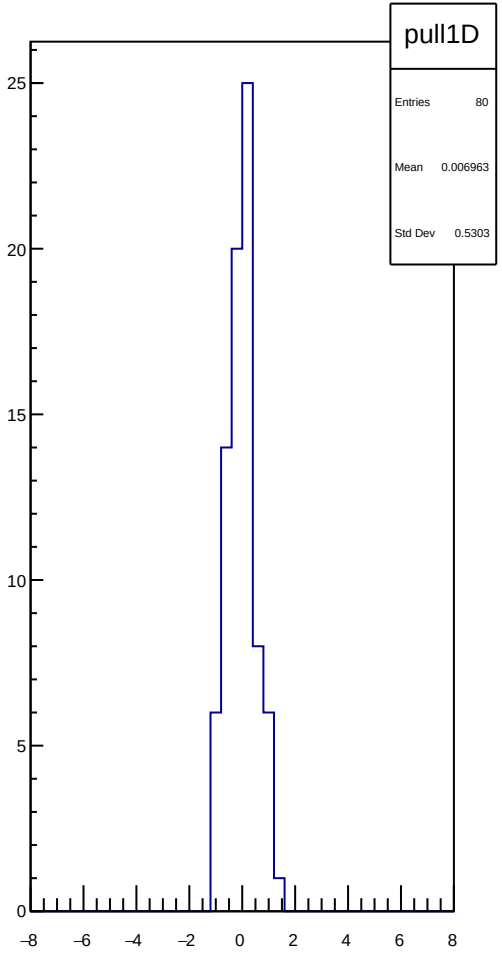

pull1D
Entries 80
Mean 0.01888
Std Dev 0.9277

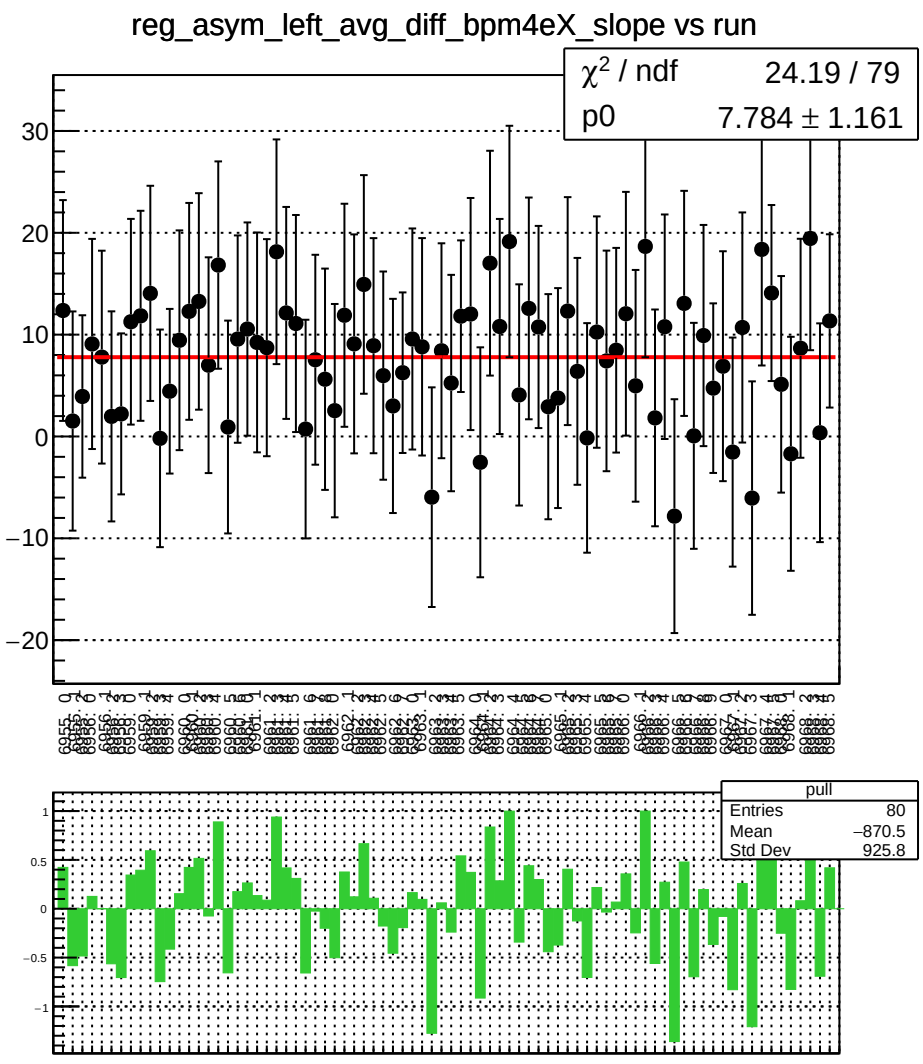

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 78.41 / 79
p0 −0.01115 ± 0.003081
pull
Entries 80
Mean 118.2
Std Dev 67.76
pull1D
Entries 80
Mean −0.01805
Std Dev 0.9898

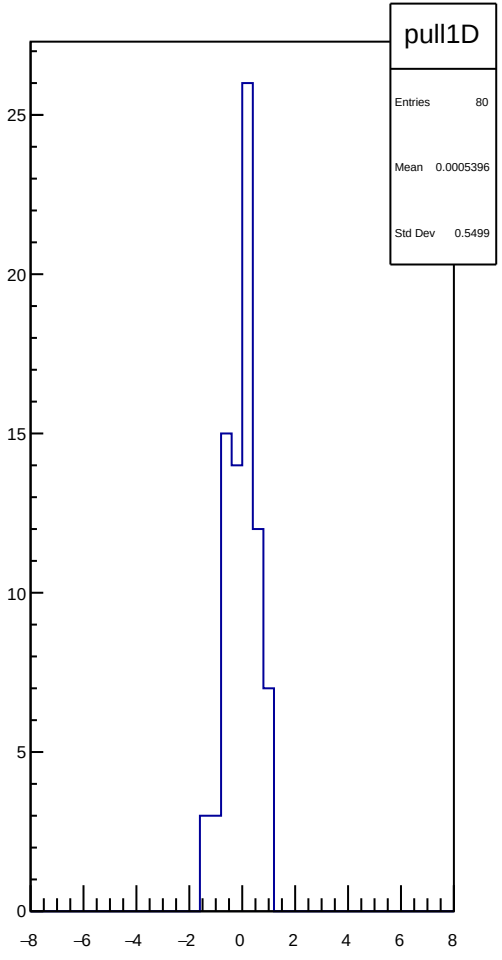

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 24.24 / 79
p0 −40.11 ± 1.254
pull
Entries 80
Mean 1.263e+04
Std Dev 1.257e+04

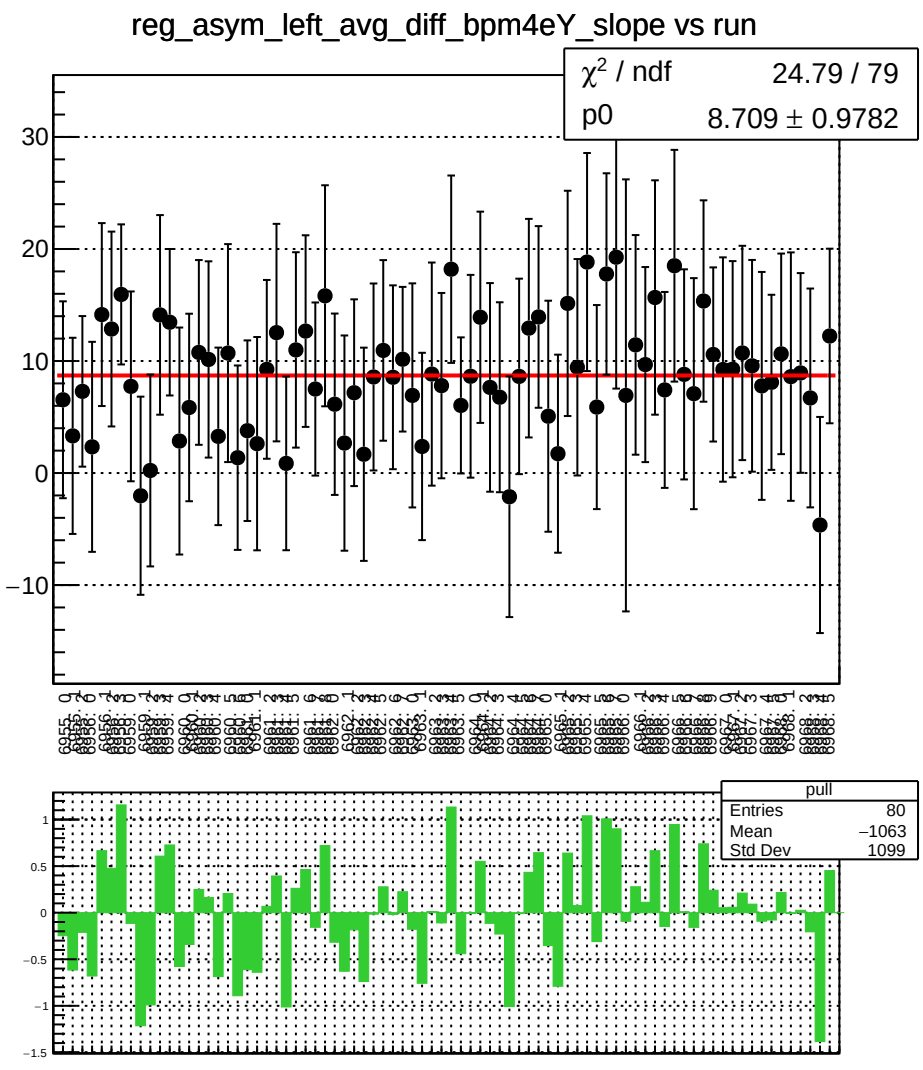

pull1D
Entries 80
Mean 4.886e−05
Std Dev 0.5504

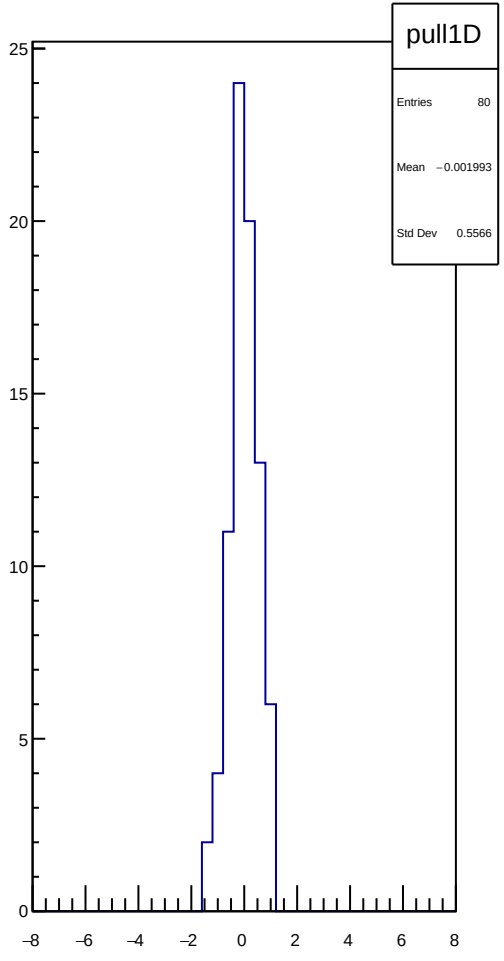

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.5 / 79
p0 1.735 ± 0.86
pull
Entries 80
Mean −208
Std Dev 240.5

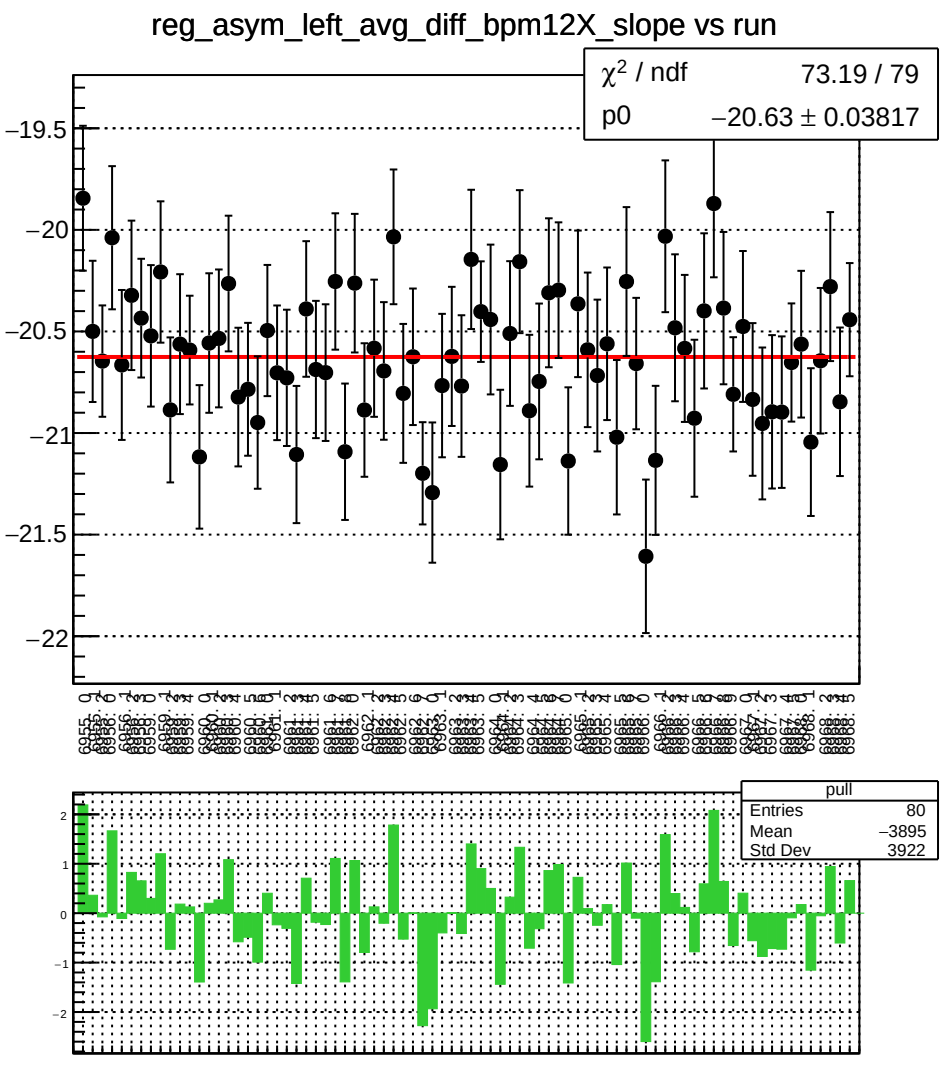

pull1D
Entries 80
Mean 0.006963
Std Dev 0.5303

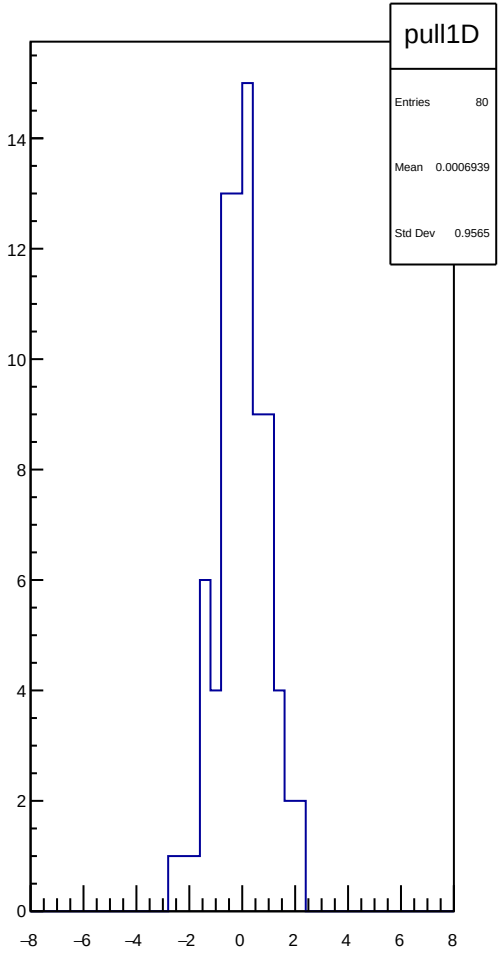

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.19 / 79
p0 7.784 ± 1.161
pull
Entries 80
Mean −870.5
Std Dev 925.8

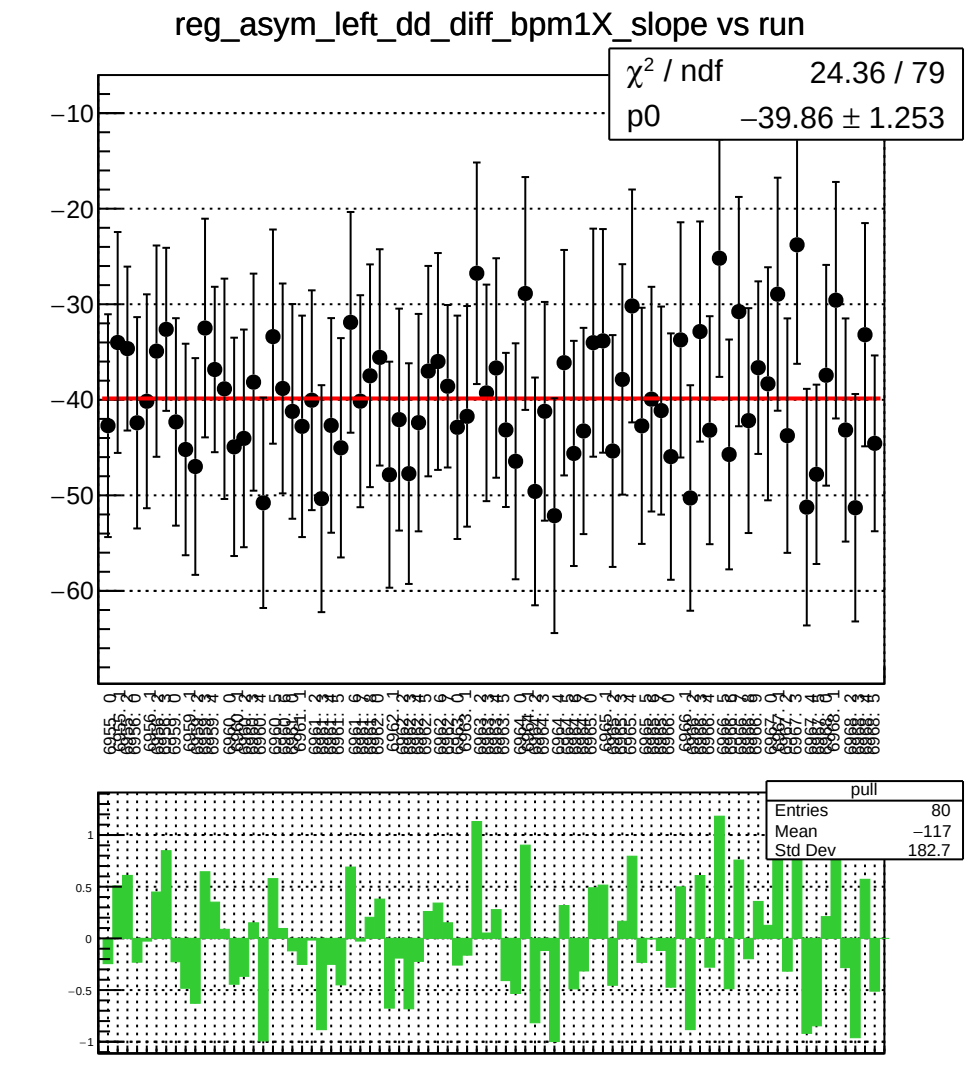

pull1D
Entries 80
Mean 0.0005396
Std Dev 0.5499

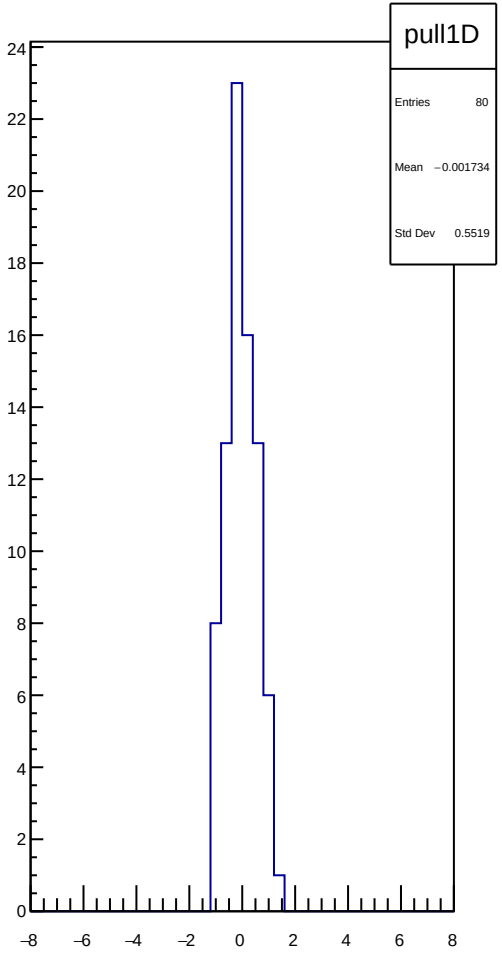

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.79 / 79
p0 8.709 ± 0.9782
pull
Entries 80
Mean −1063
Std Dev 1099

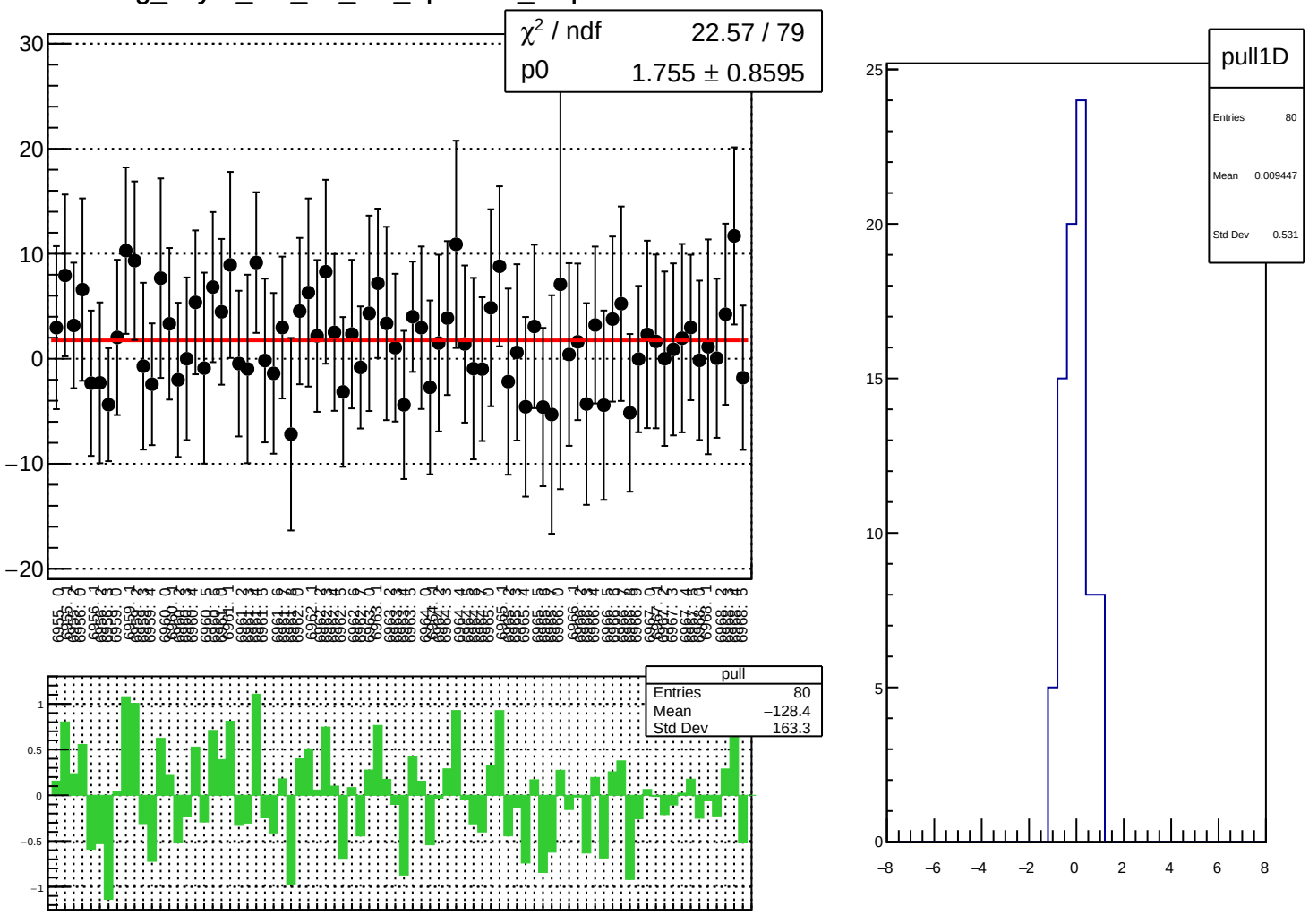

pull1D
Entries 80
Mean −0.001993
Std Dev 0.5566

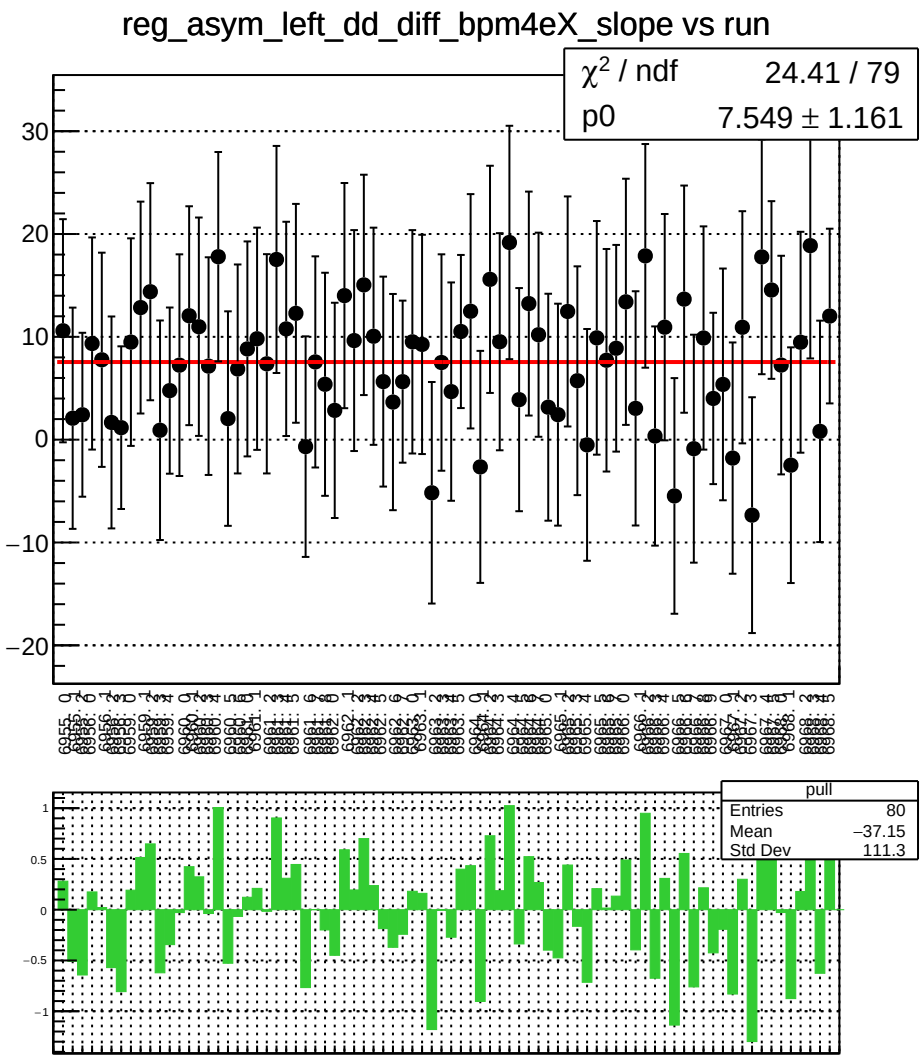

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 73.19 / 79
p0 −20.63 ± 0.03817
pull
Entries 80
Mean −3895
Std Dev 3922

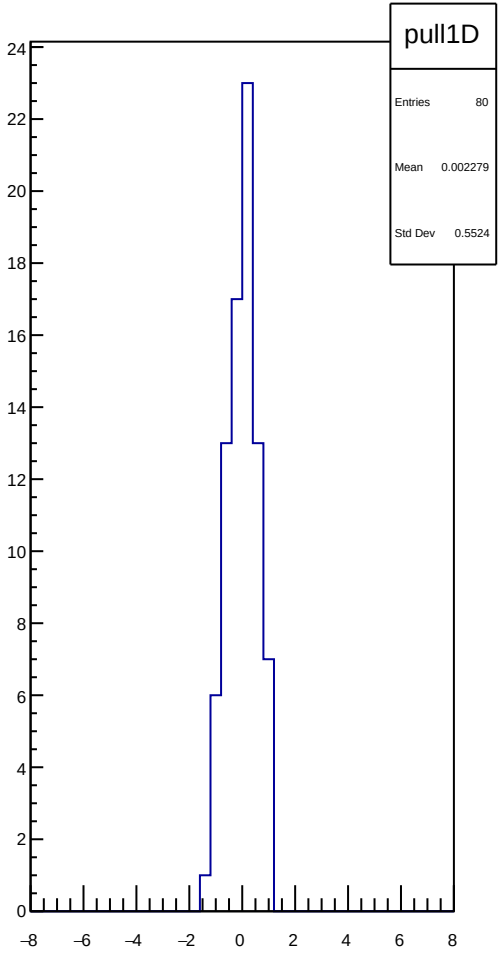

pull1D
Entries 80
Mean 0.0006939
Std Dev 0.9565

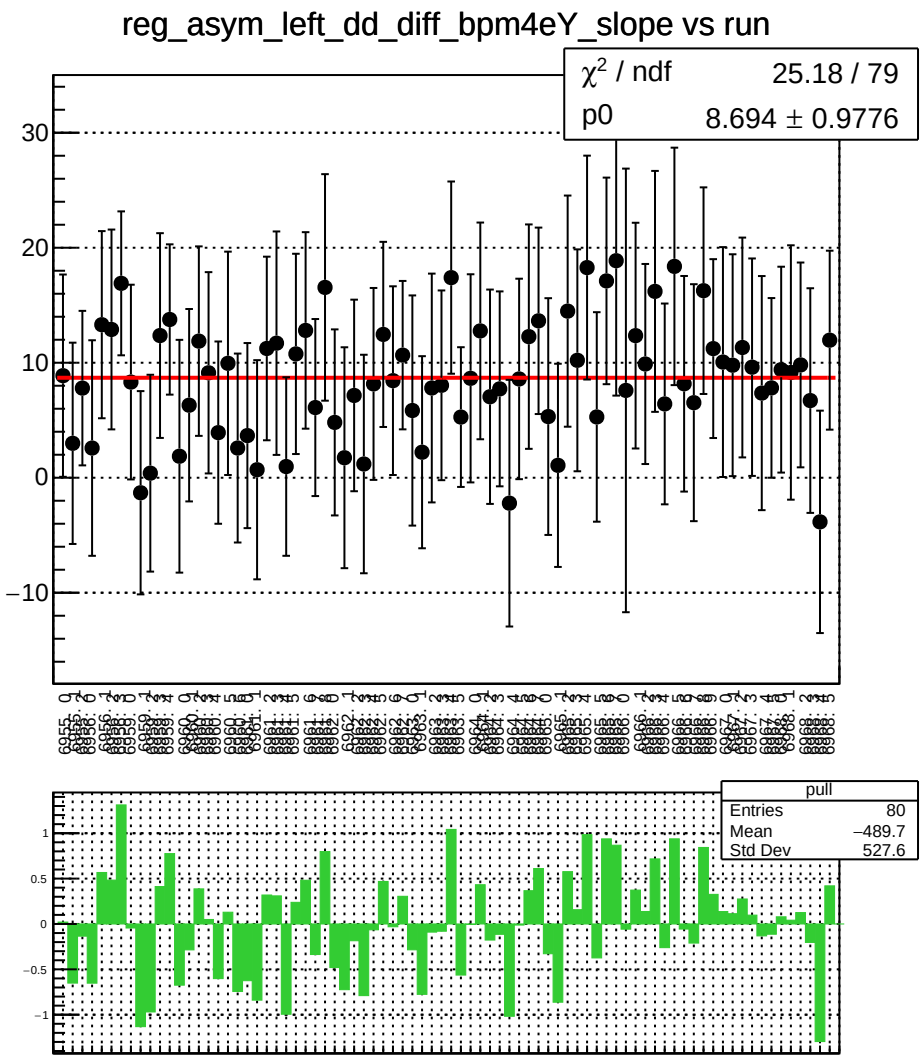

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 24.36 / 79
p0 −39.86 ± 1.253
pull
Entries 80
Mean −117
Std Dev 182.7

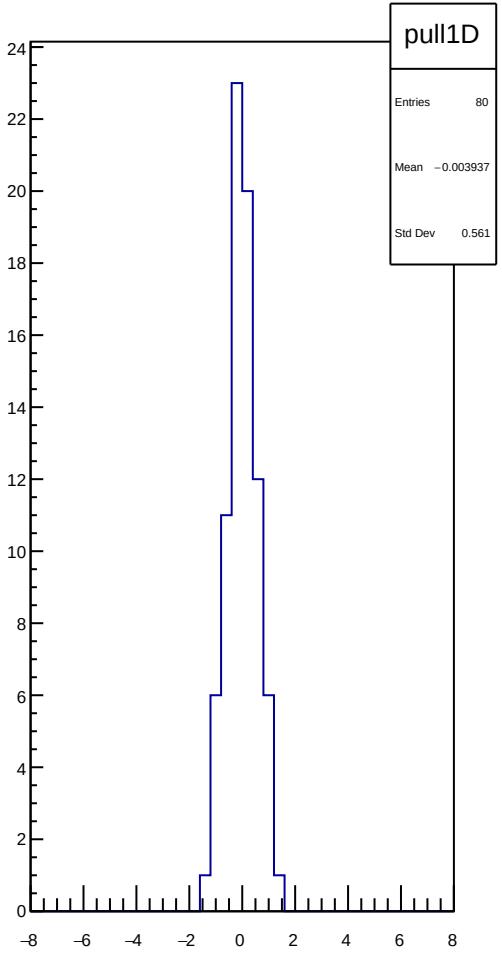

pull1D
Entries 80
Mean −0.001734
Std Dev 0.5519

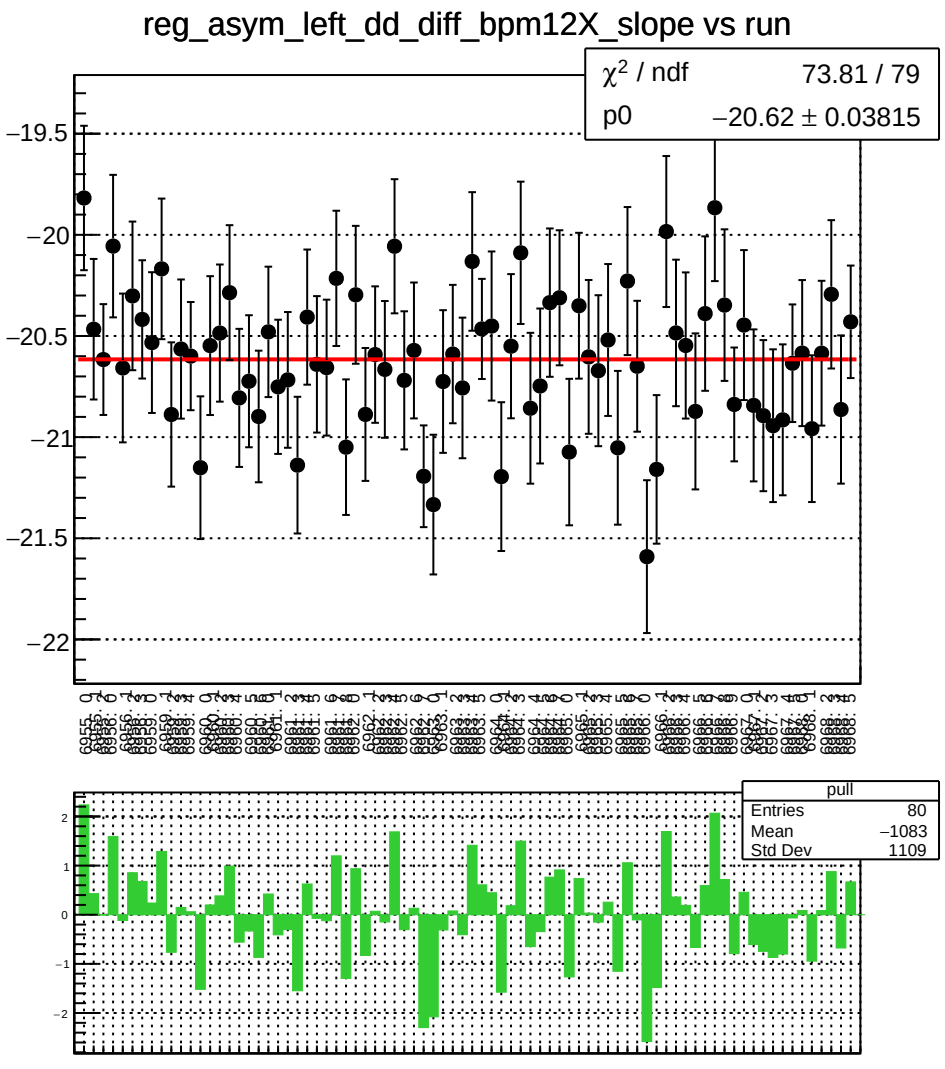

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.57 / 79
p0 1.755 ± 0.8595
pull
Entries 80
Mean −128.4
Std Dev 163.3
pull1D
Entries 80
Mean 0.009447
Std Dev 0.531

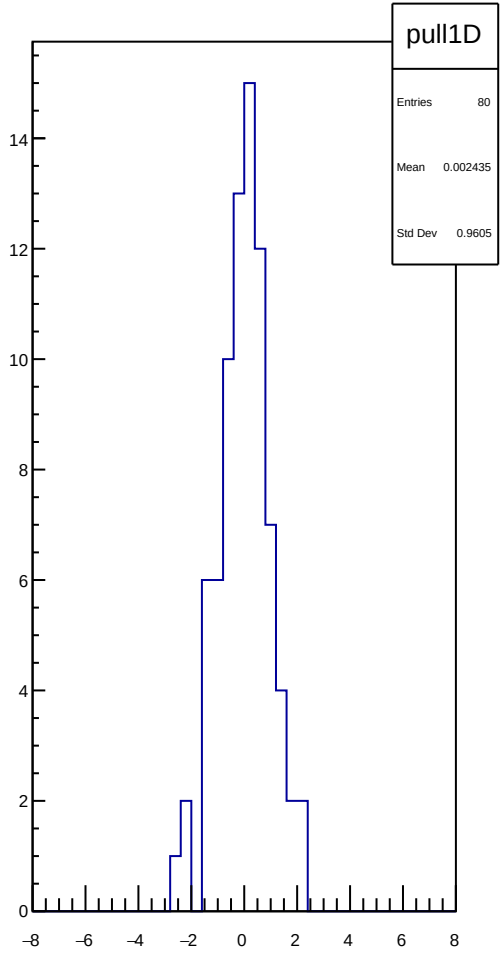

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.41 / 79
p0 7.549 ± 1.161
pull
Entries 80
Mean −37.15
Std Dev 111.3

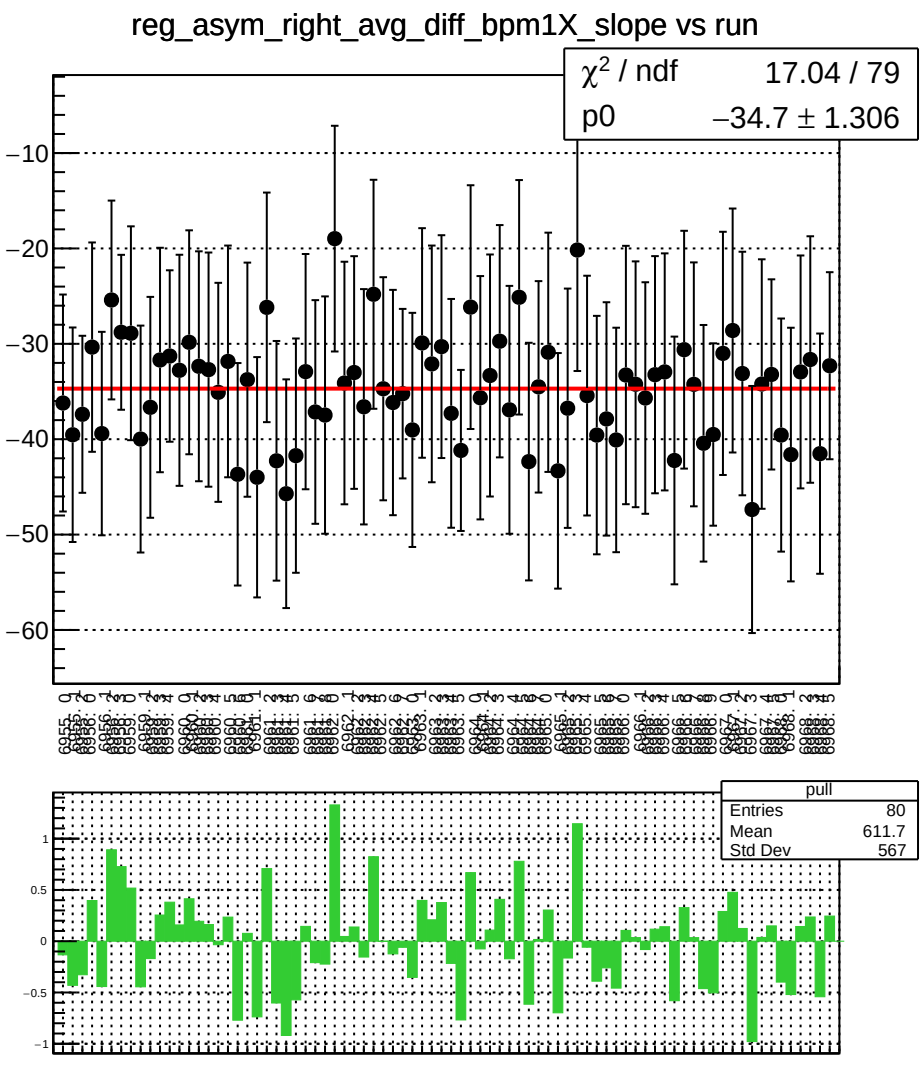

pull1D
Entries 80
Mean 0.002279
Std Dev 0.5524

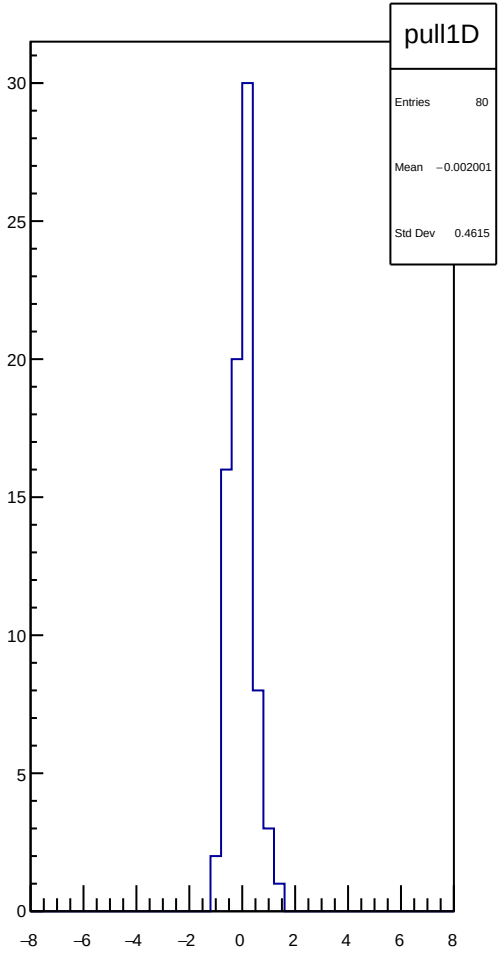

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.18 / 79
p0 8.694 ± 0.9776
pull
Entries 80
Mean −489.7
Std Dev 527.6

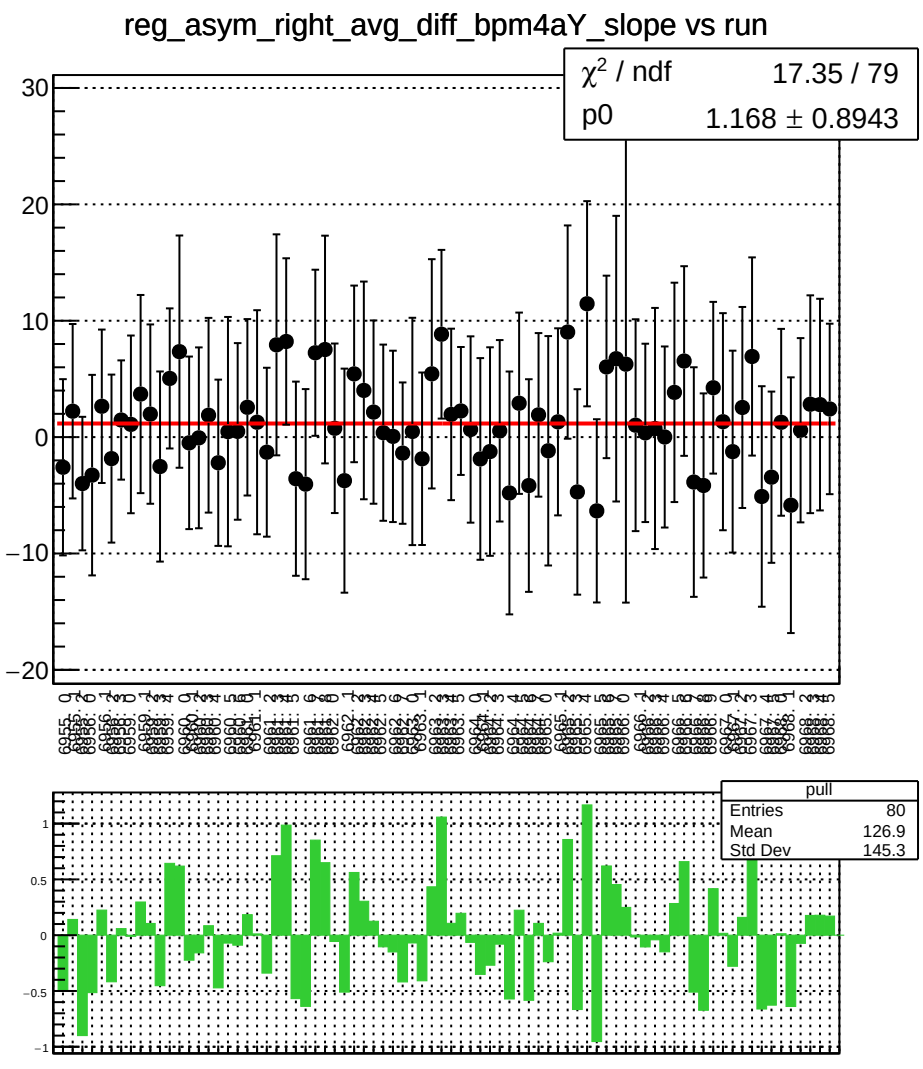

pull1D
Entries 80
Mean −0.003937
Std Dev 0.561

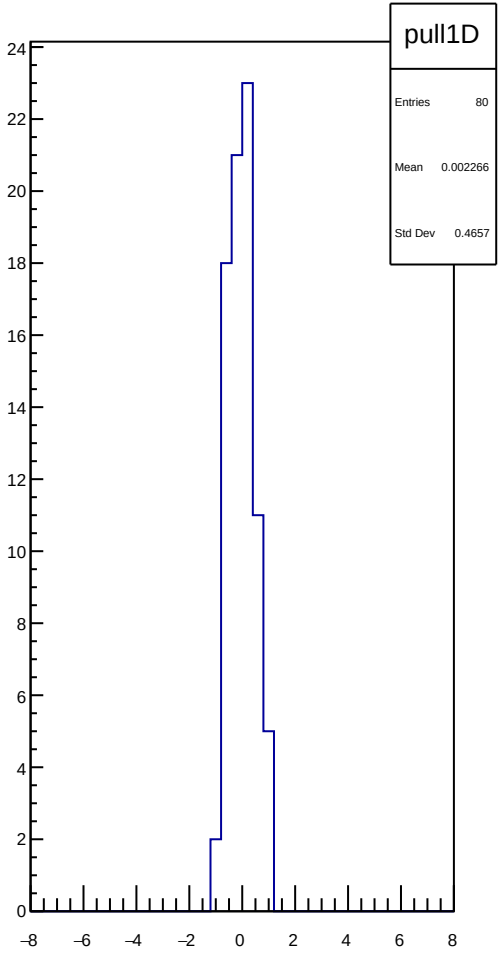

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 73.81 / 79
p0 −20.62 ± 0.03815
−19.5
−20
−20.5
−21
−21.5
−22
pull
Entries 80
Mean −1083
Std Dev 1109
2
1
0
−1
−2

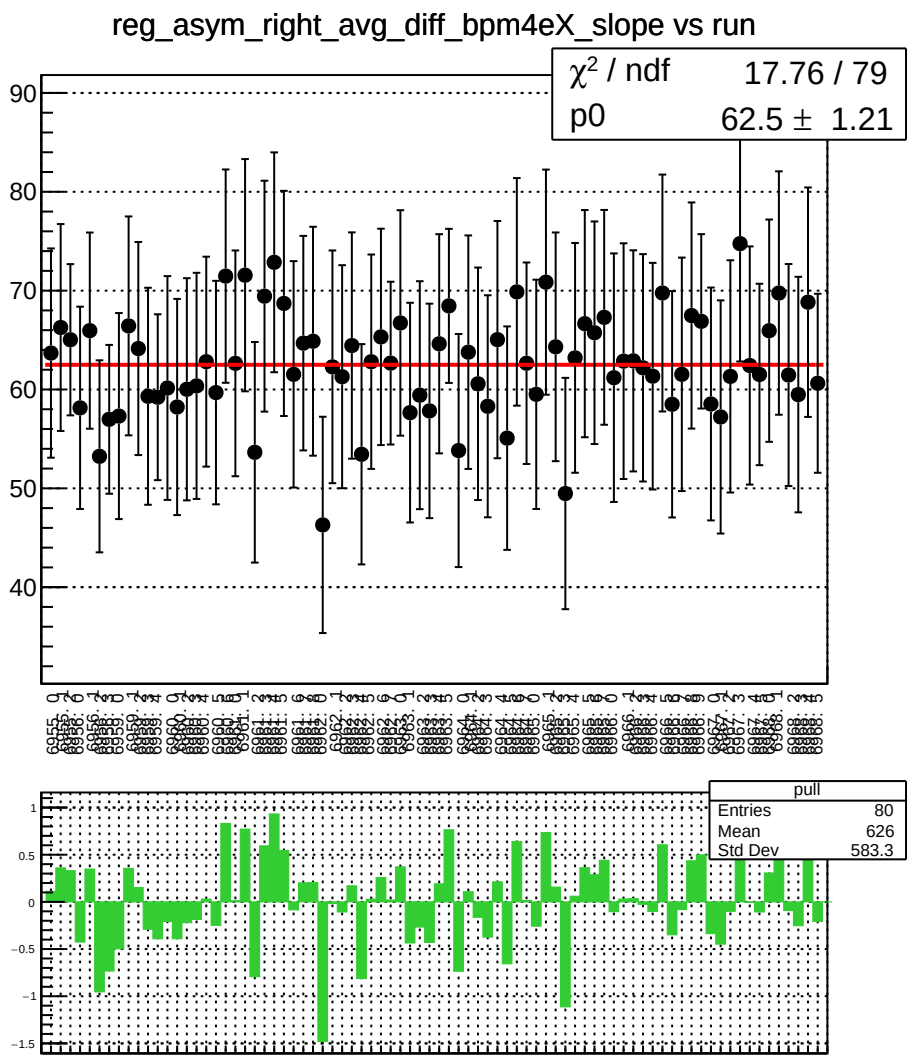

pull1D
Entries 80
Mean 0.002435
Std Dev 0.9605
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

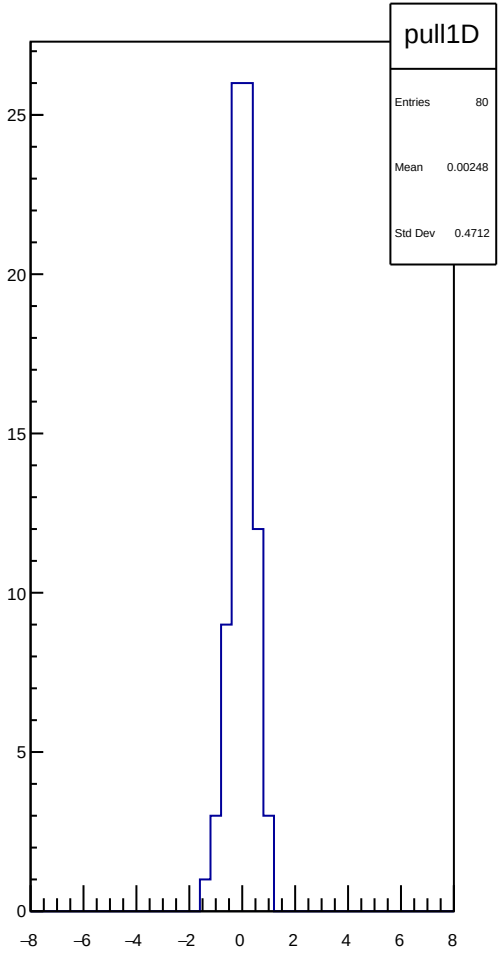

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 17.04 / 79
p0 −34.7 ± 1.306
pull
Entries 80
Mean 611.7
Std Dev 567

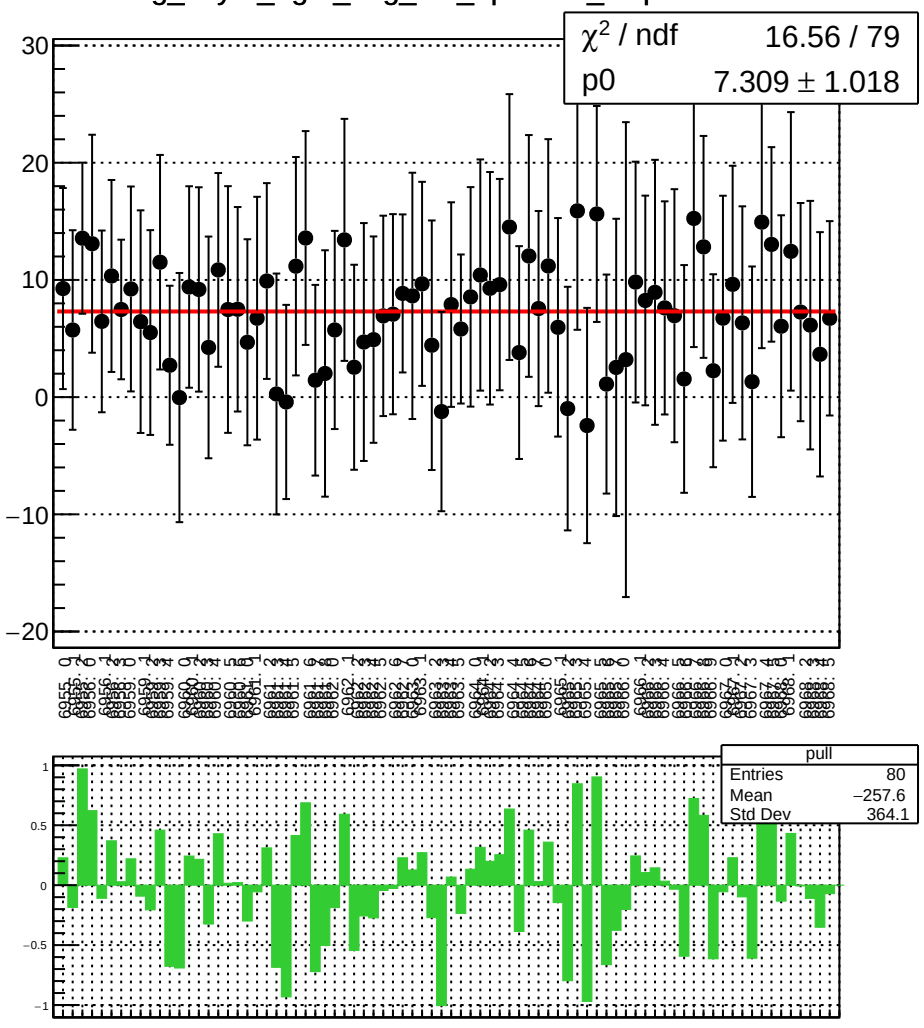

pull1D
Entries 80
Mean −0.002001
Std Dev 0.4615

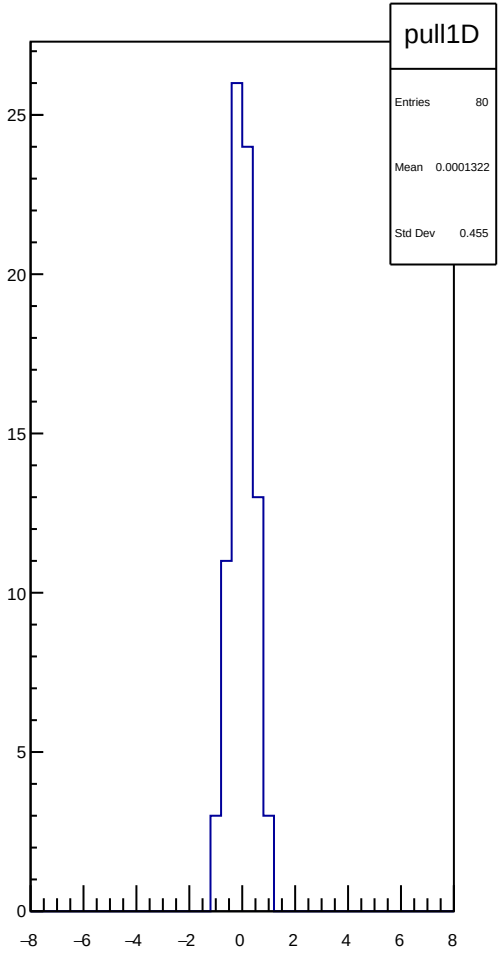

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.35 / 79
p0 1.168 ± 0.8943
pull
Entries 80
Mean 126.9
Std Dev 145.3

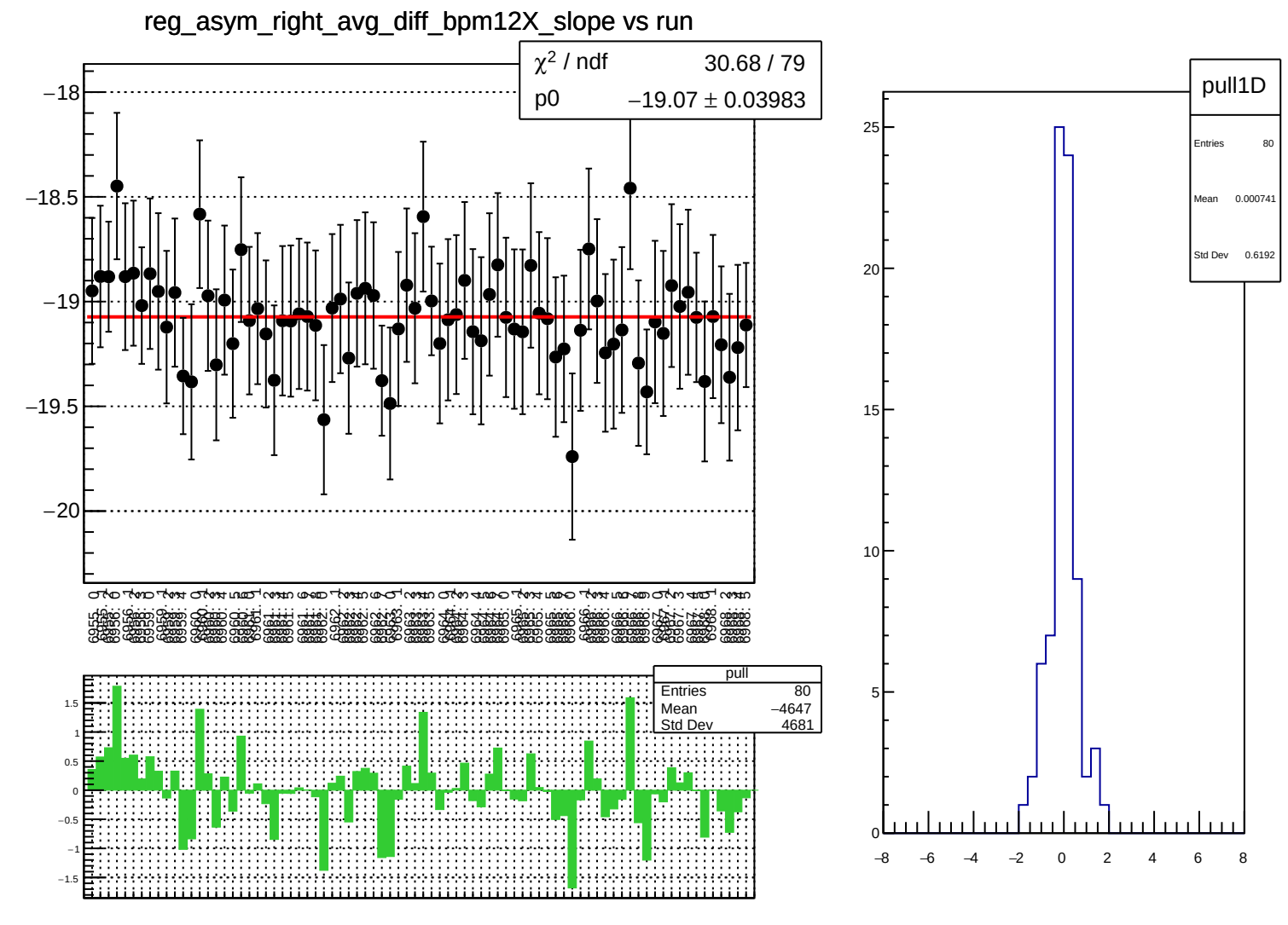

pull1D
Entries 80
Mean 0.002266
Std Dev 0.4657

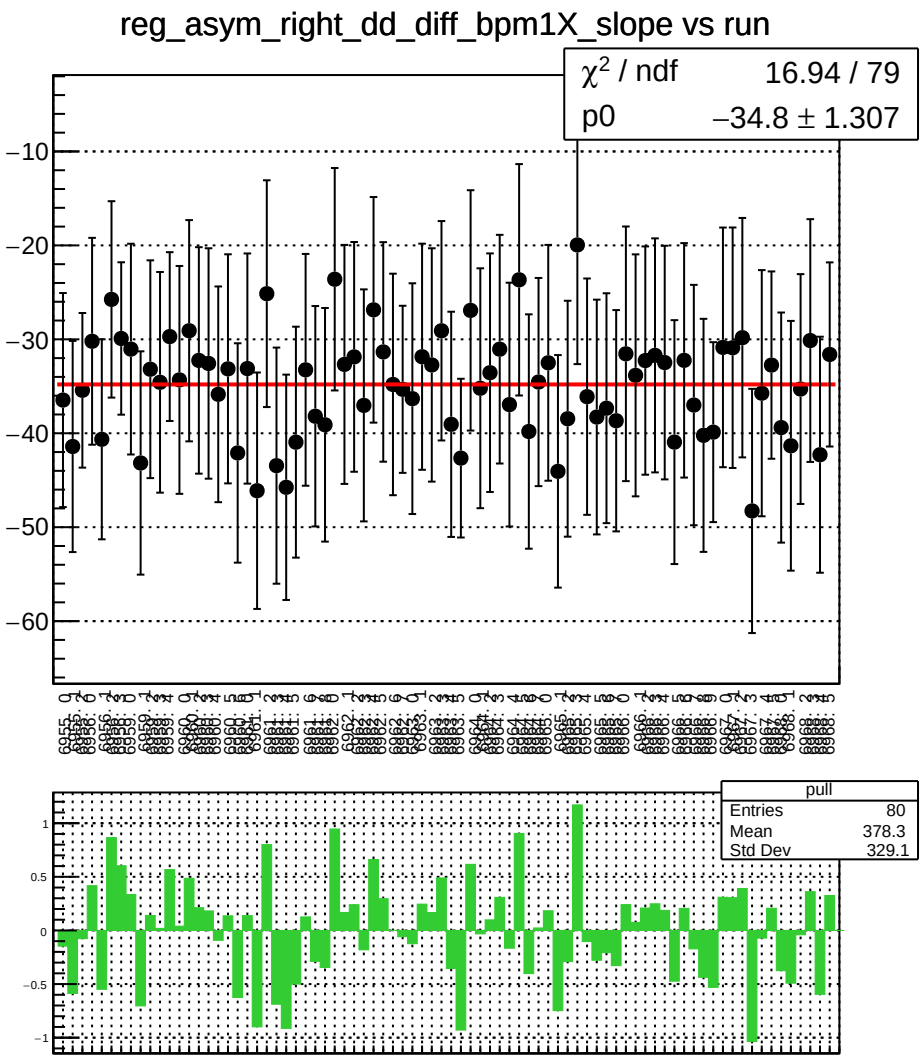

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.76 / 79
p0 62.5 ± 1.21
pull
Entries 80
Mean 626
Std Dev 583.3

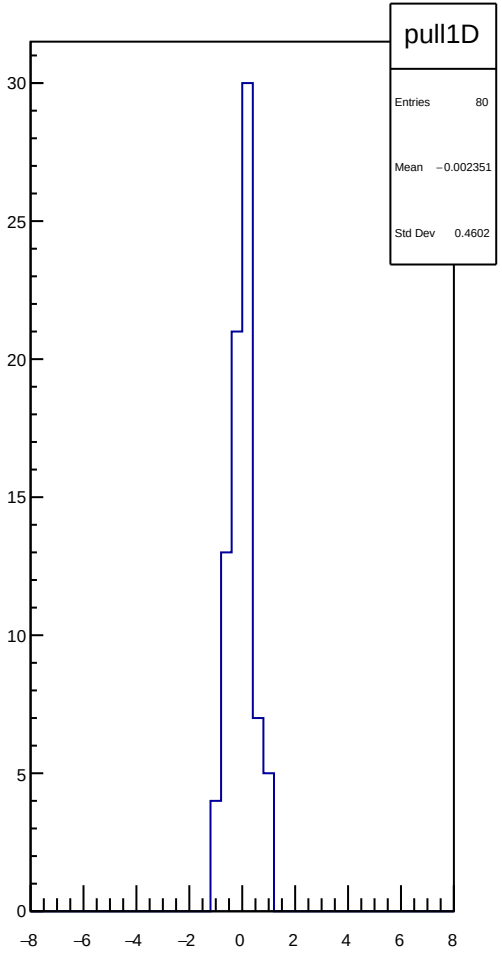

pull1D
Entries 80
Mean 0.00248
Std Dev 0.4712

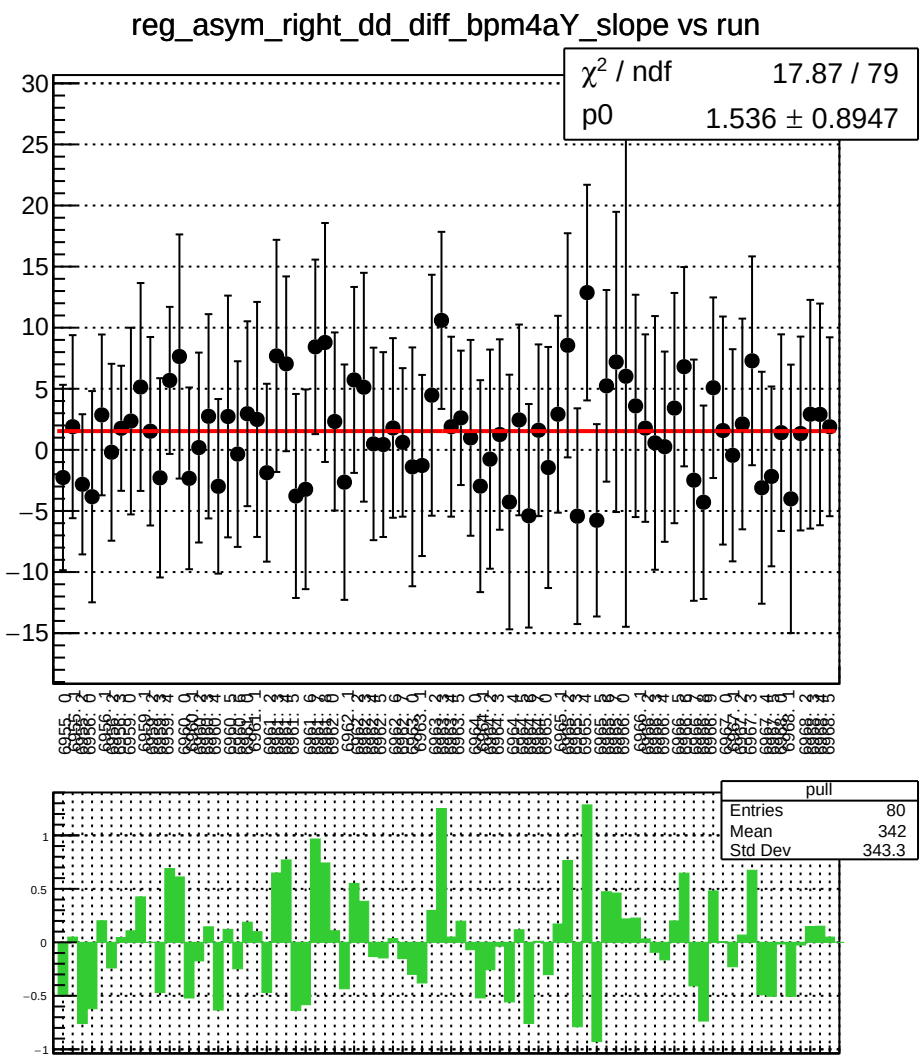

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.56 / 79
p0 7.309 ± 1.018
pull
Entries 80
Mean −257.6
Std Dev 364.1

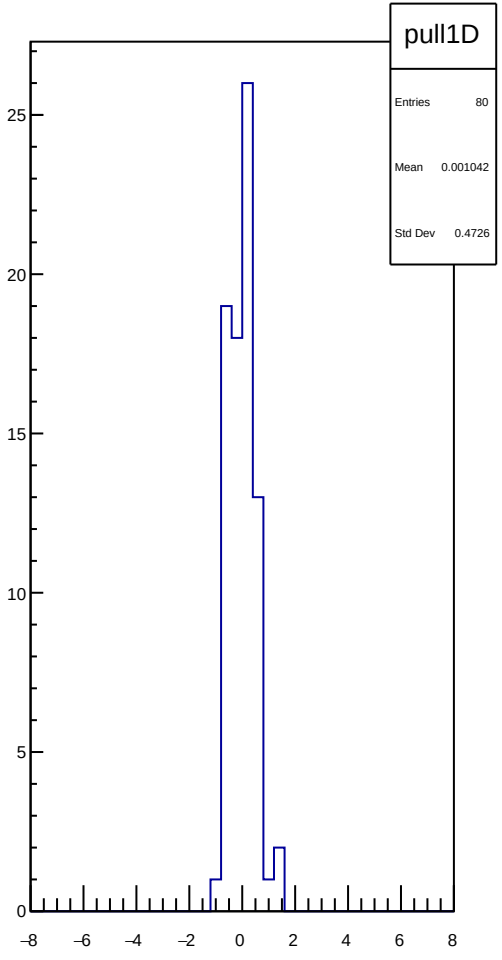

pull1D
Entries 80
Mean 0.0001322
Std Dev 0.455

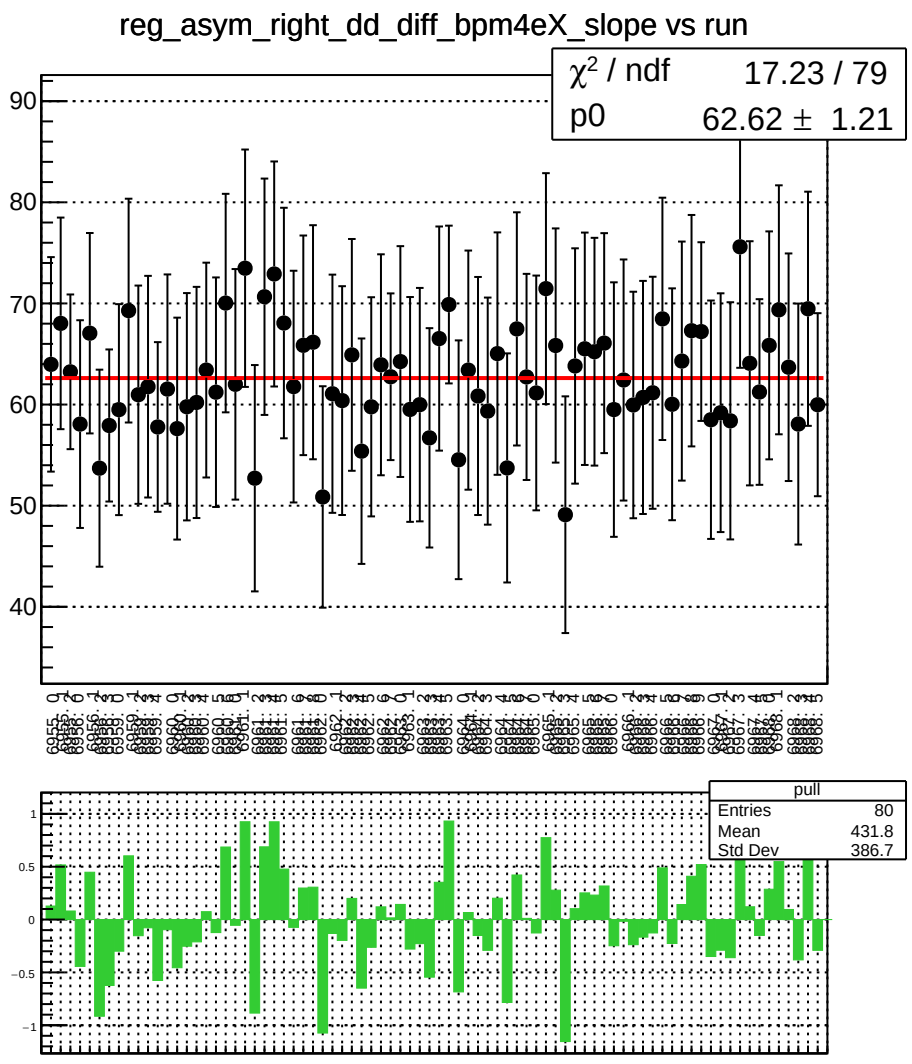

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 30.68 / 79
p0 −19.07 ± 0.03983
−18
−18.5
−19
−19.5
−20
pull
Entries 80
Mean −4647
Std Dev 4681
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 80
Mean 0.000741
Std Dev 0.6192
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

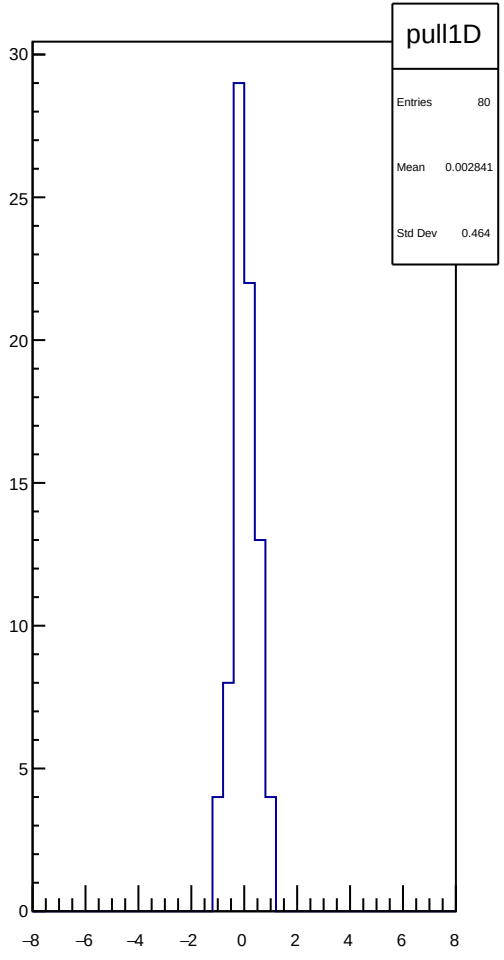

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 16.94 / 79
p0 −34.8 ± 1.307
pull
Entries 80
Mean 378.3
Std Dev 329.1

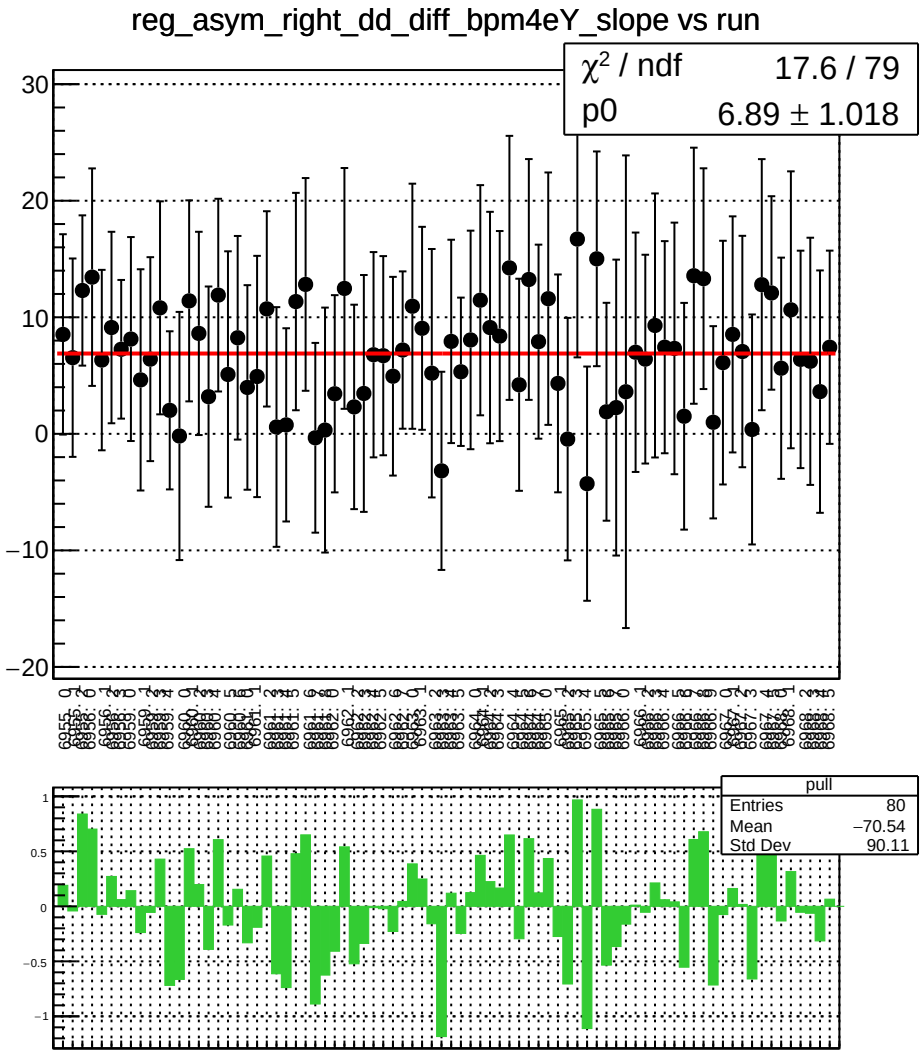

pull1D
Entries 80
Mean −0.002351
Std Dev 0.4602

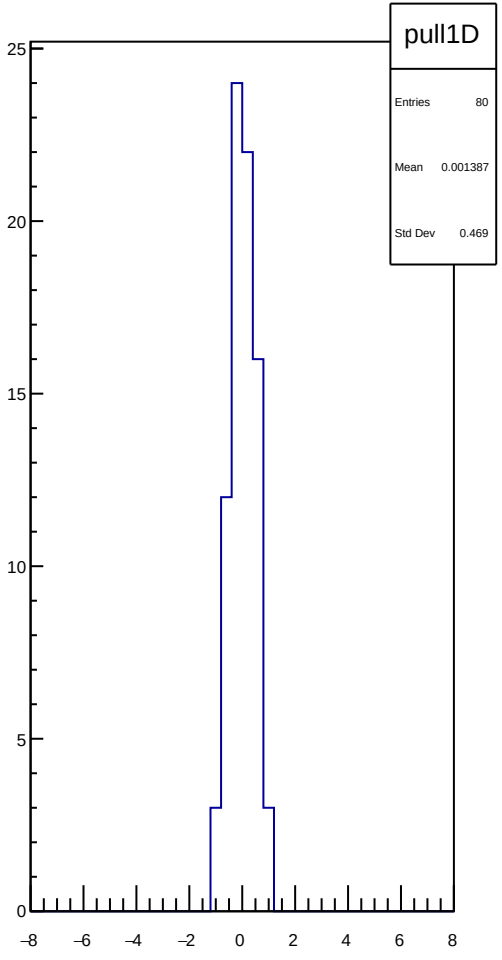

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.87 / 79
p0 1.536 ± 0.8947
pull
Entries 80
Mean 342
Std Dev 343.3

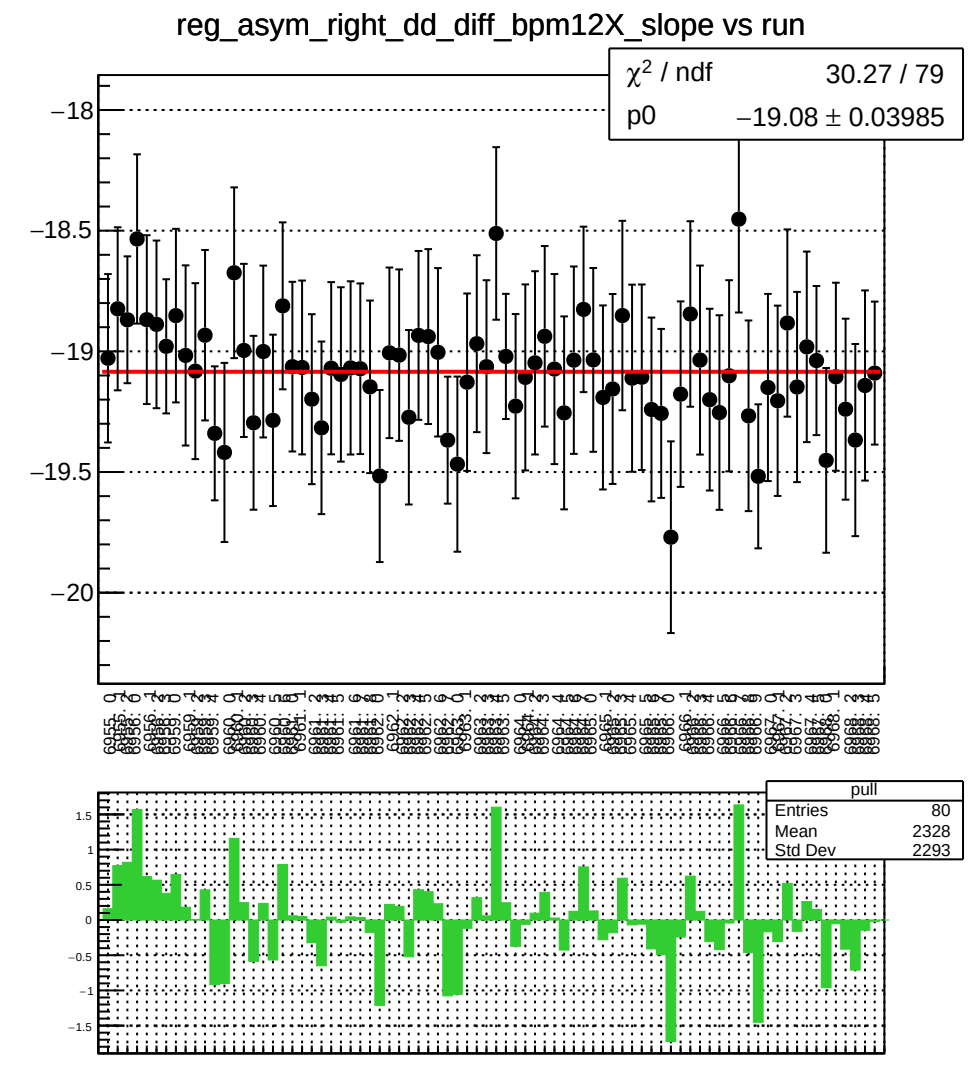

pull1D
Entries 80
Mean 0.001042
Std Dev 0.4726

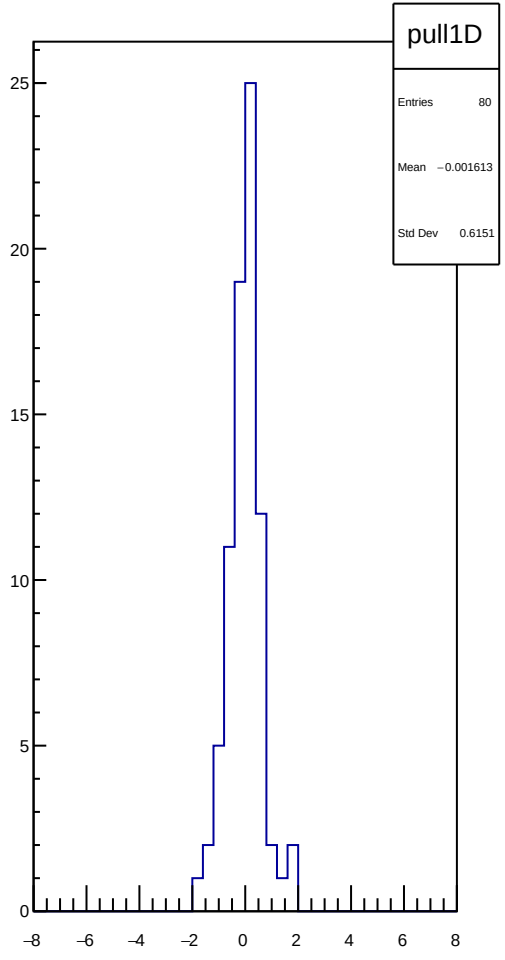

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.23 / 79
p0 62.62 ± 1.21
pull
Entries 80
Mean 431.8
Std Dev 386.7

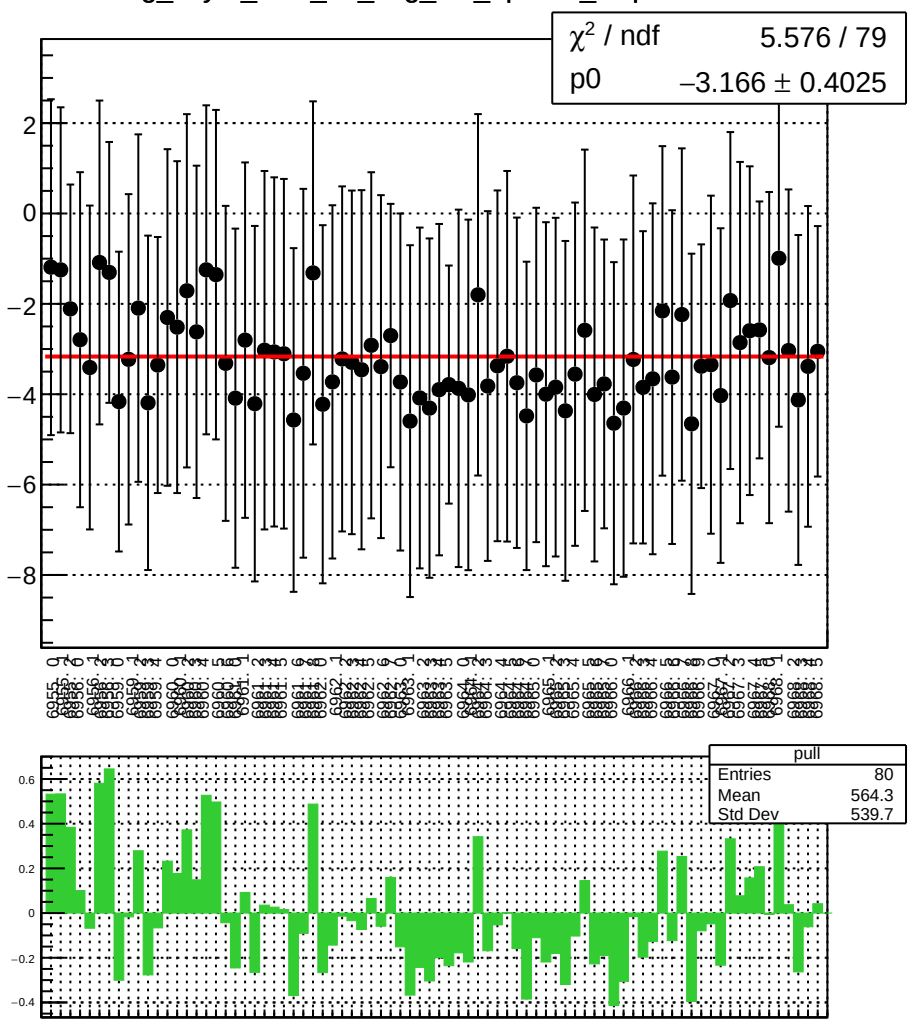

pull1D
Entries 80
Mean 0.002841
Std Dev 0.464

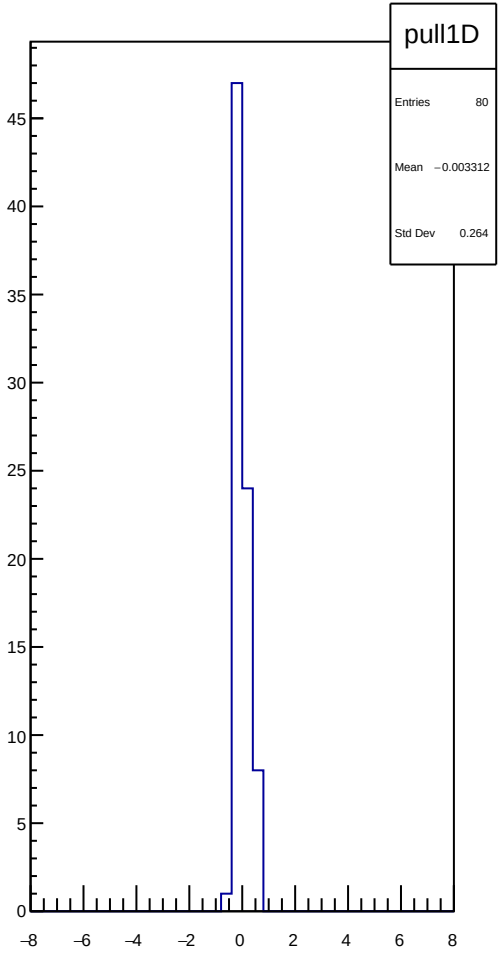

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.6 / 79
p0 6.89 ± 1.018
pull
Entries 80
Mean −70.54
Std Dev 90.11

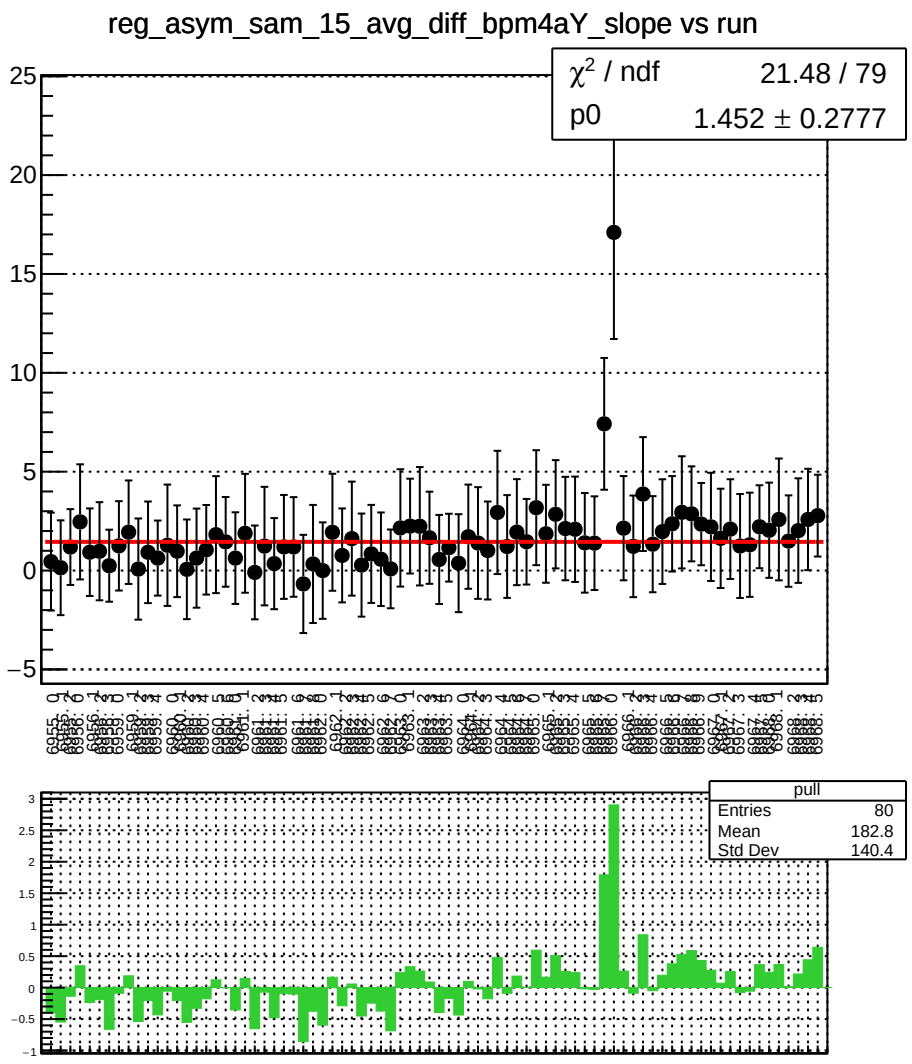

pull1D
Entries 80
Mean 0.001387
Std Dev 0.469

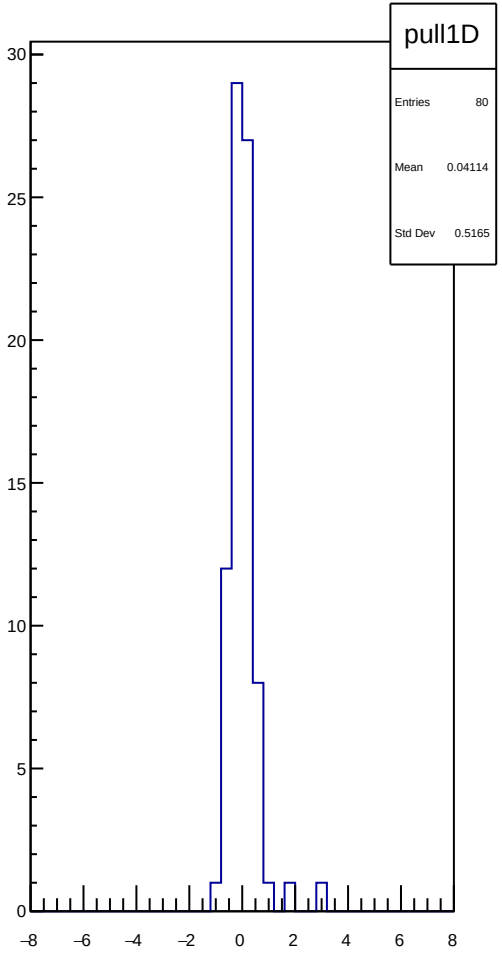

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 30.27 / 79
p0 −19.08 ± 0.03985
−18
−18.5
−19
−19.5
−20
pull
Entries 80
Mean 2328
Std Dev 2293
1.5
1
0.5
0
−0.5
−1
−1.5

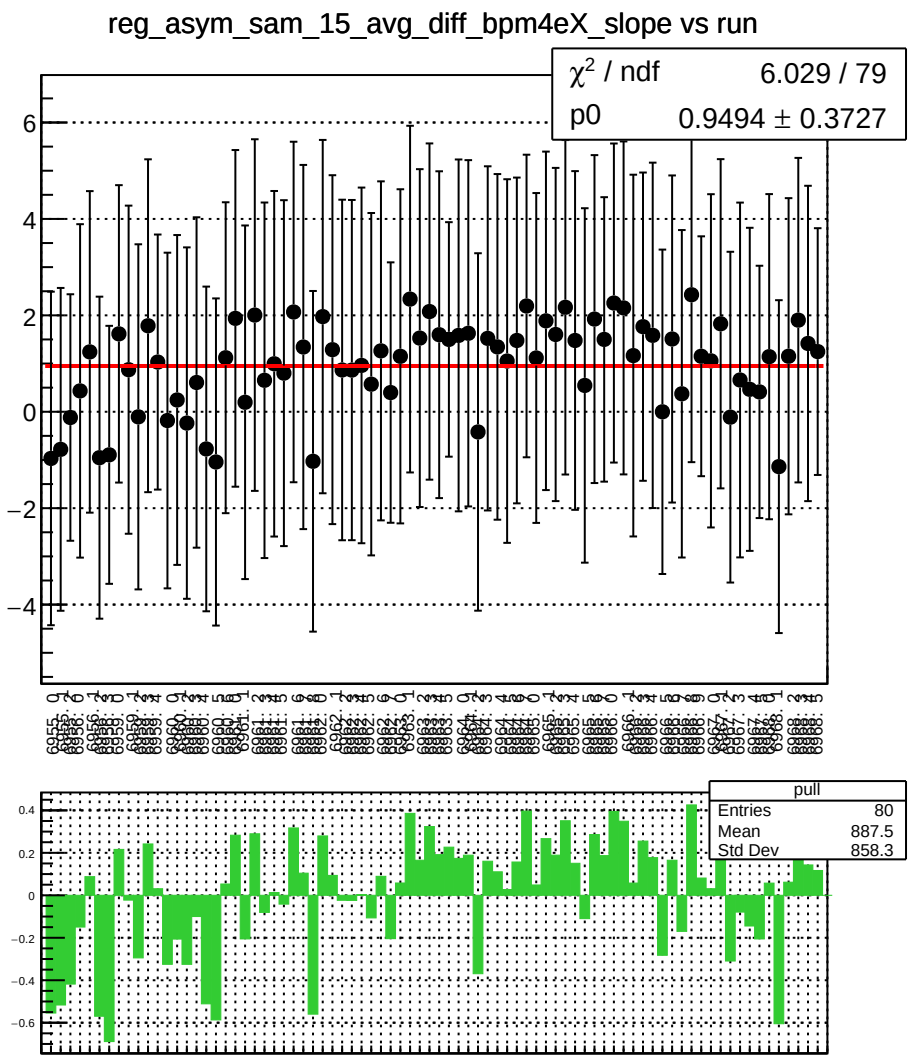

pull1D
Entries 80
Mean −0.001613
Std Dev 0.6151
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

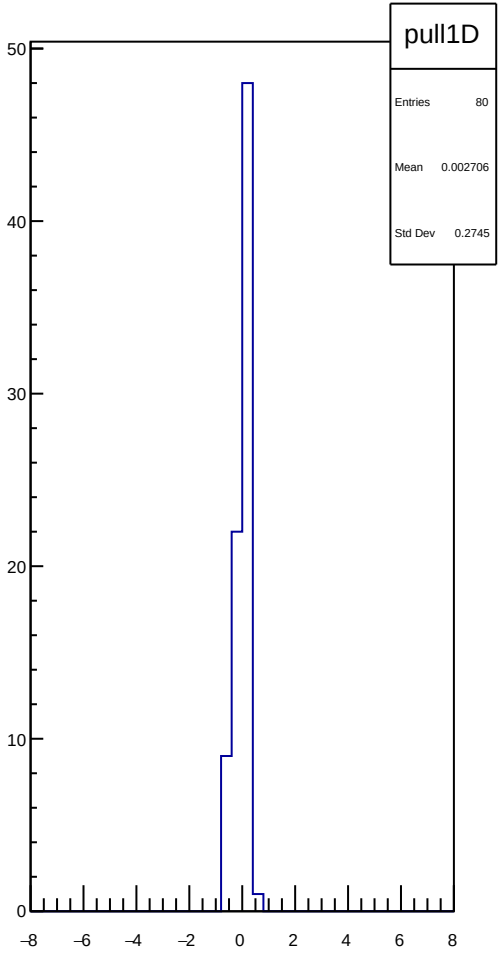

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 5.576 / 79
p0 −3.166 ± 0.4025
pull
Entries 80
Mean 564.3
Std Dev 539.7

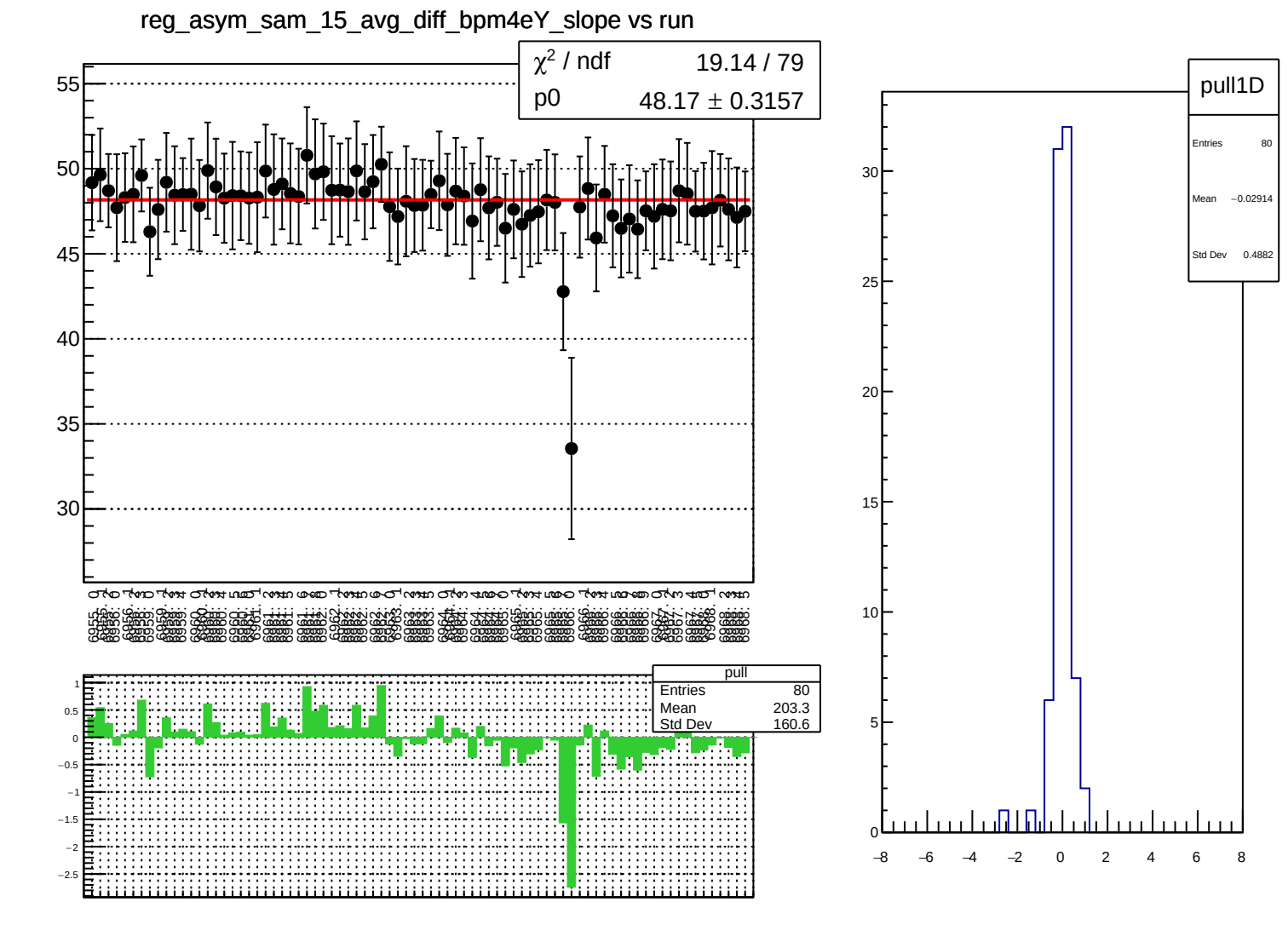

pull1D
Entries 80
Mean −0.003312
Std Dev 0.264

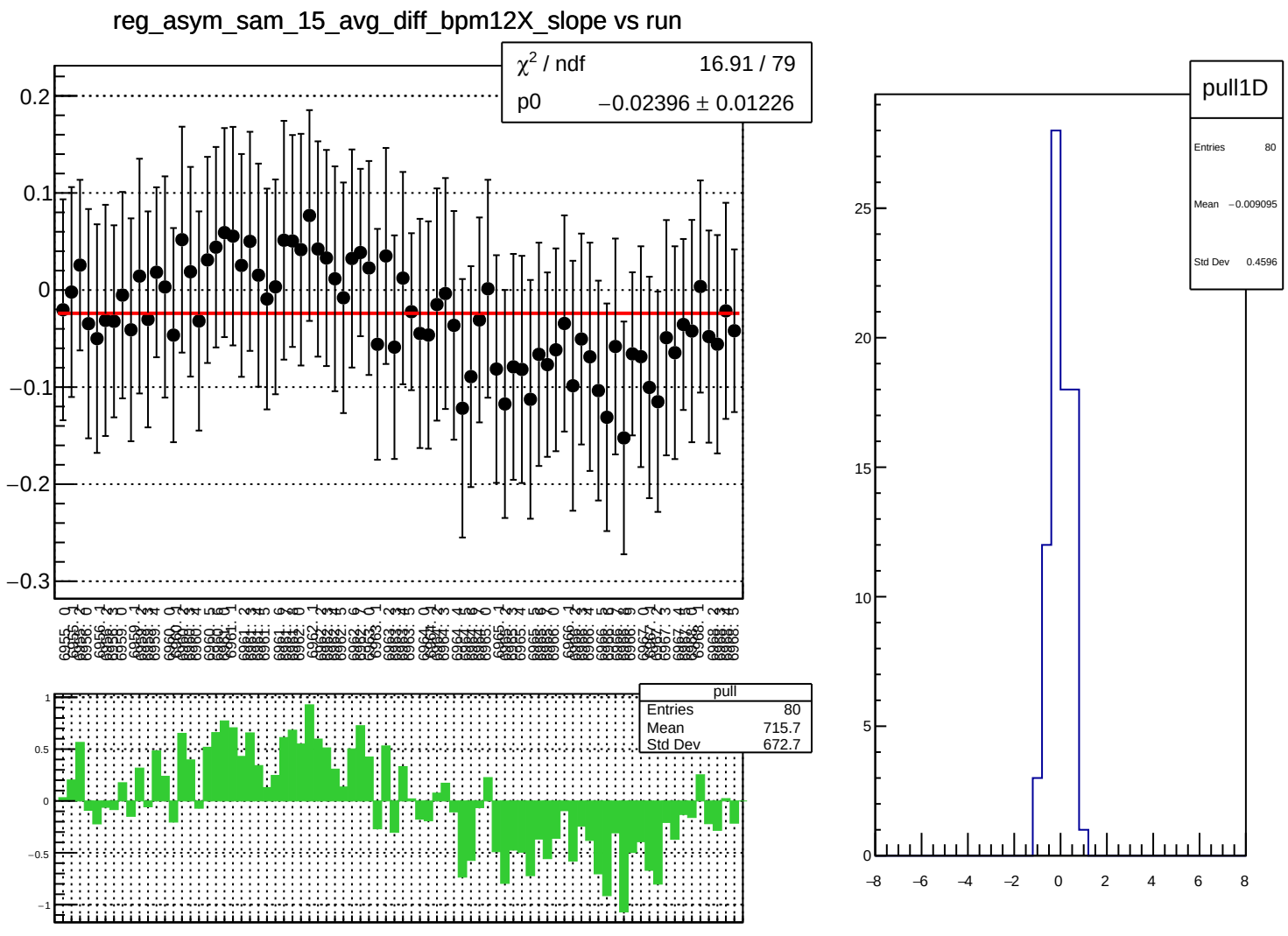

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.48 / 79
p0 1.452 ± 0.2777
pull
Entries 80
Mean 182.8
Std Dev 140.4

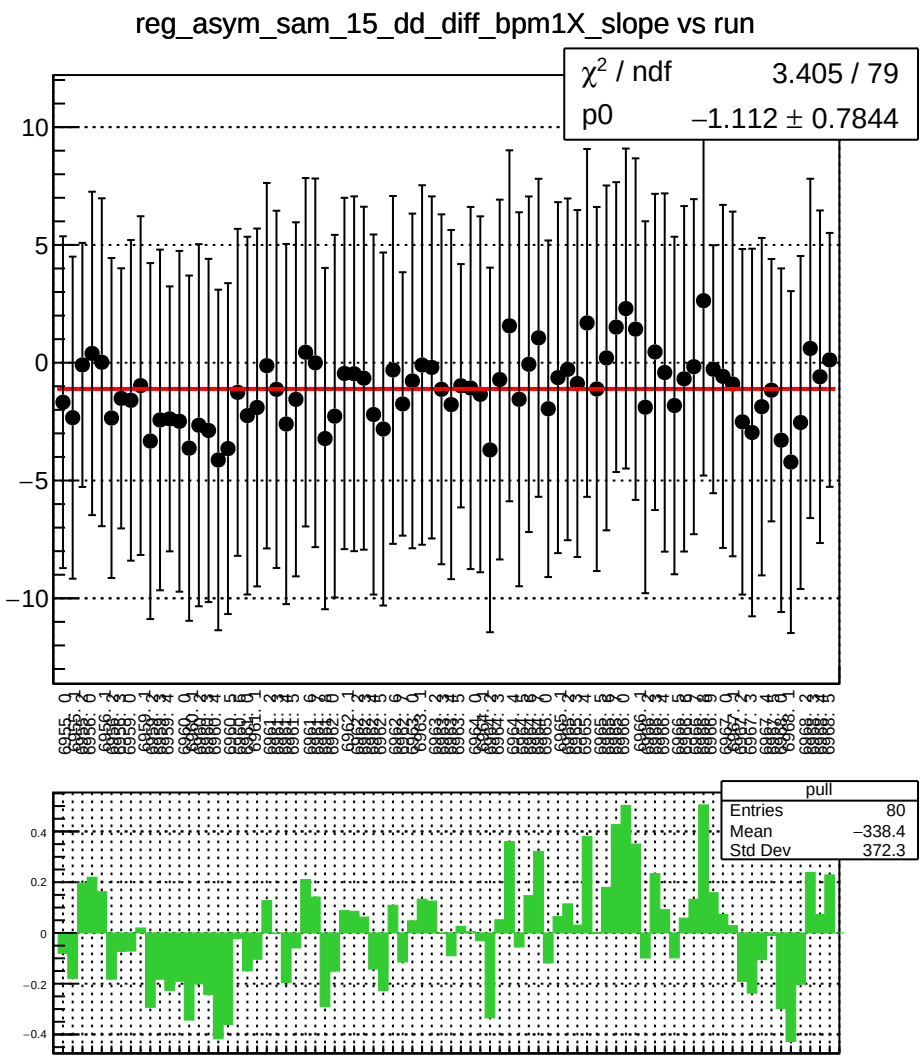

pull1D
Entries 80
Mean 0.04114
Std Dev 0.5165

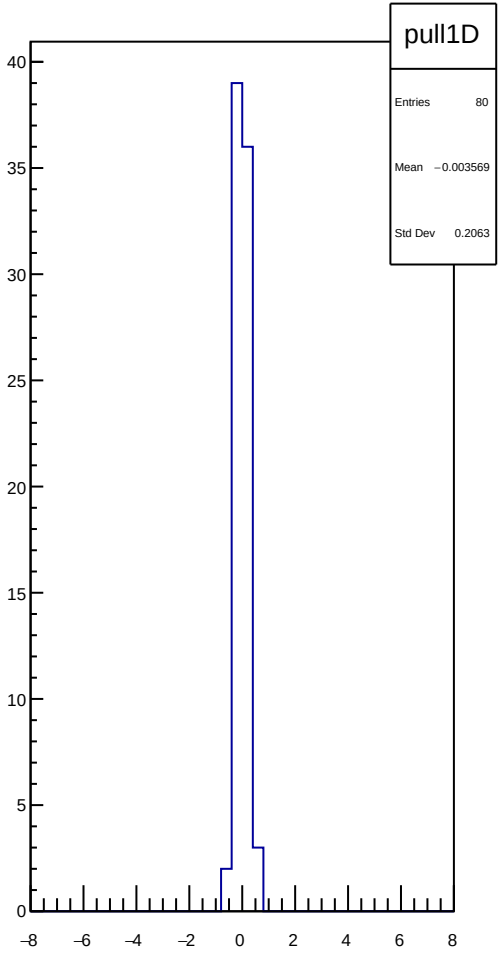

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.029 / 79
p0 0.9494 ± 0.3727
pull
Entries 80
Mean 887.5
Std Dev 858.3

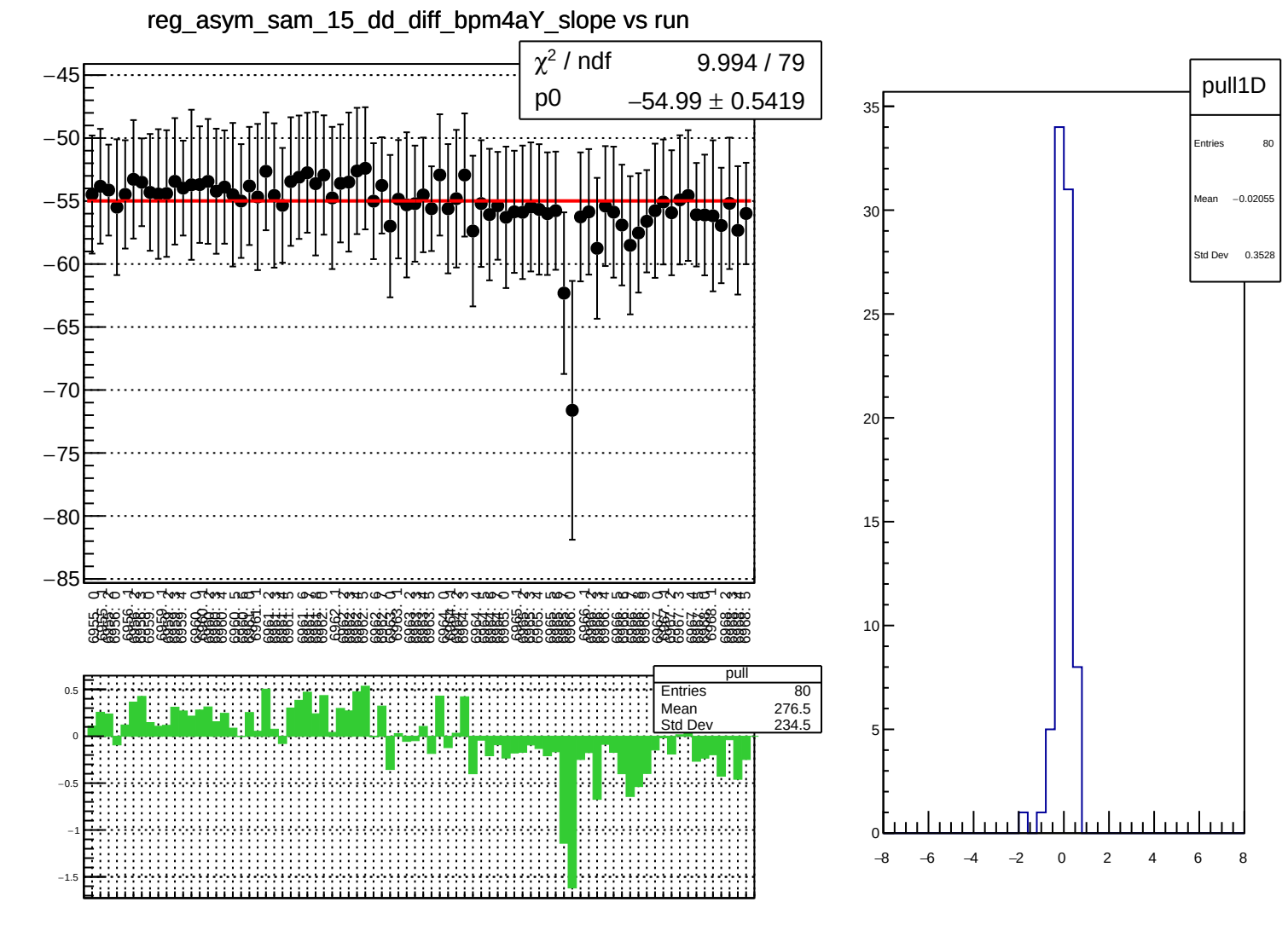

pull1D
Entries 80
Mean 0.002706
Std Dev 0.2745

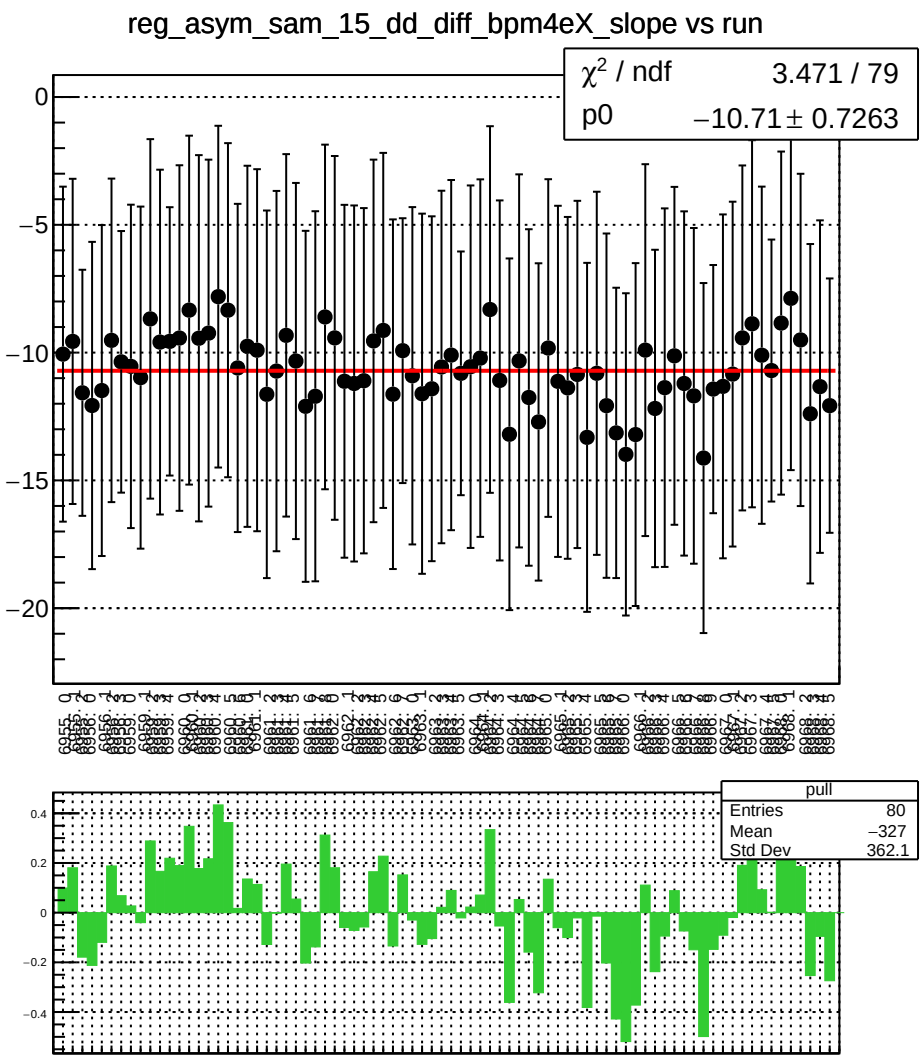

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.14 / 79
p0 48.17 ± 0.3157
pull
Entries 80
Mean 203.3
Std Dev 160.6
pull1D
Entries 80
Mean −0.02914
Std Dev 0.4882

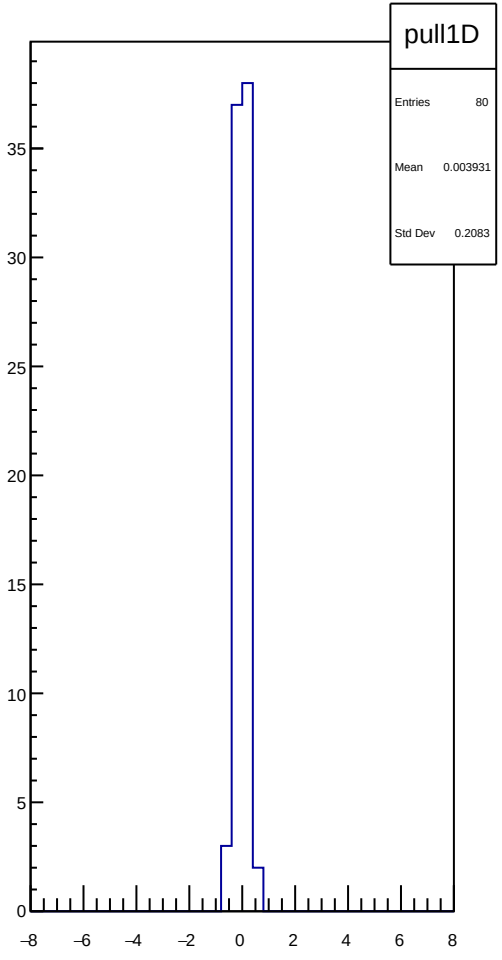

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 16.91 / 79
p0 −0.02396 ± 0.01226
pull
Entries 80
Mean 715.7
Std Dev 672.7
pull1D
Entries 80
Mean −0.009095
Std Dev 0.4596

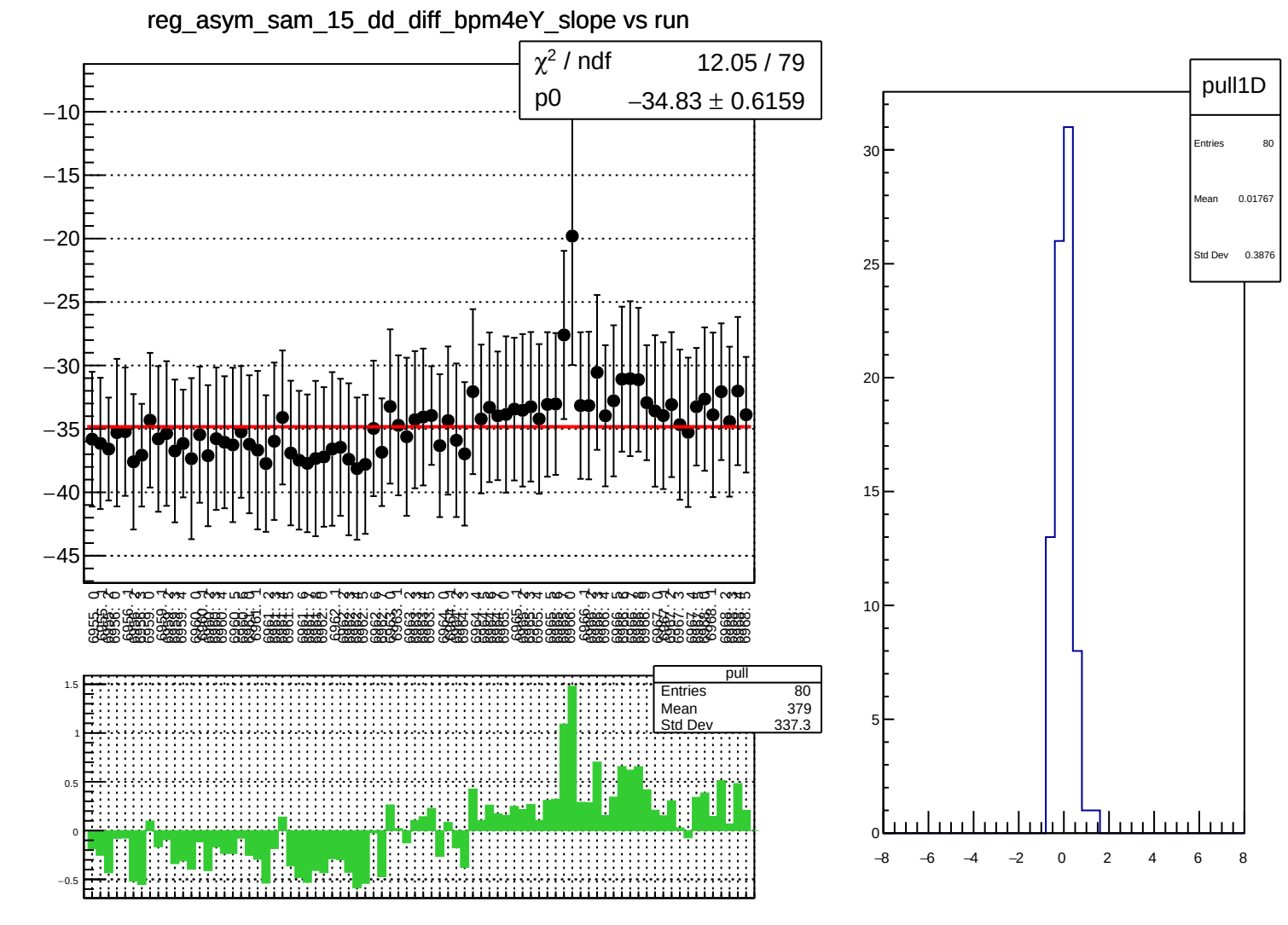

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 3.405 / 79
p0 −1.112 ± 0.7844
pull
Entries 80
Mean −338.4
Std Dev 372.3

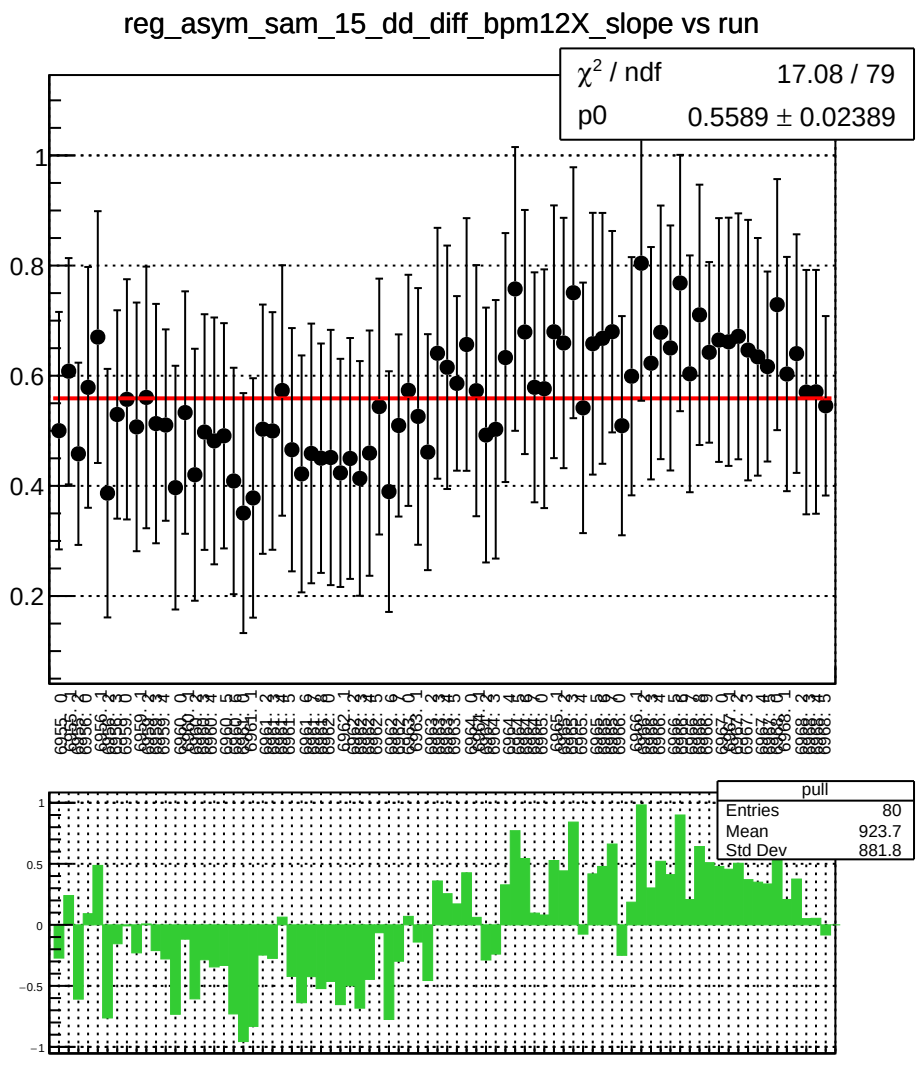

pull1D
Entries 80
Mean −0.003569
Std Dev 0.2063

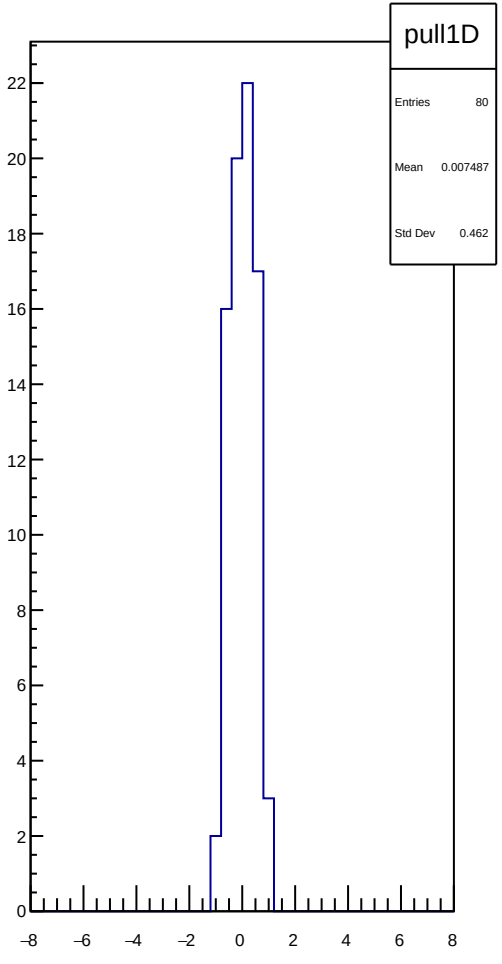

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.994 / 79
p0 −54.99 ± 0.5419
pull
Entries 80
Mean 276.5
Std Dev 234.5
pull1D
Entries 80
Mean −0.02055
Std Dev 0.3528

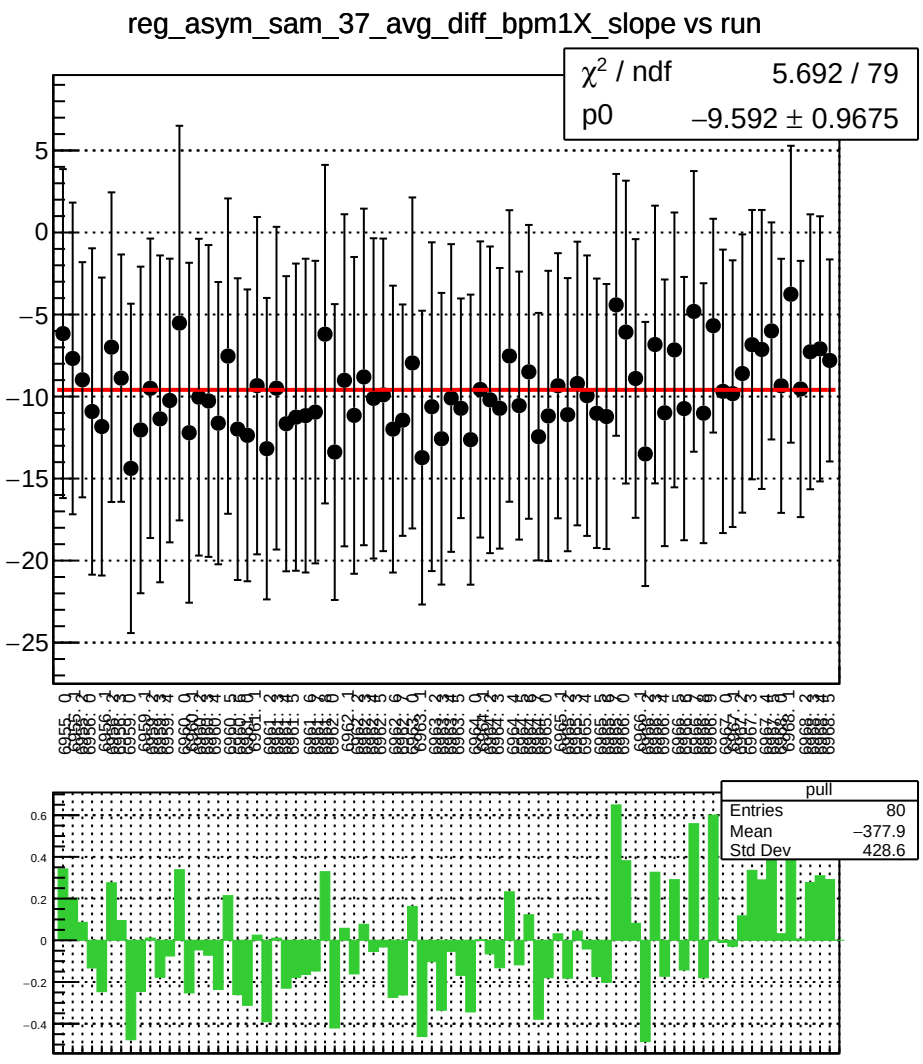

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.471 / 79
p0 −10.71 ± 0.7263
pull
Entries 80
Mean −327
Std Dev 362.1

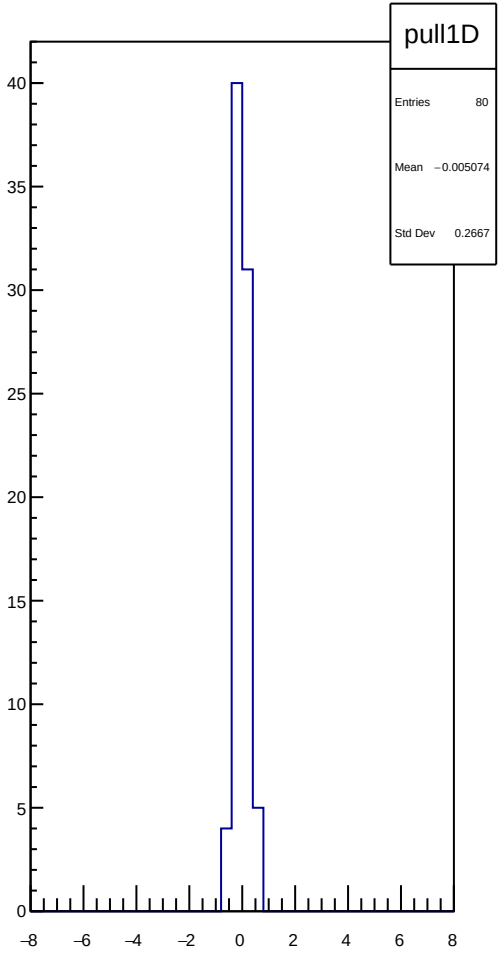

pull1D
Entries 80
Mean 0.003931
Std Dev 0.2083

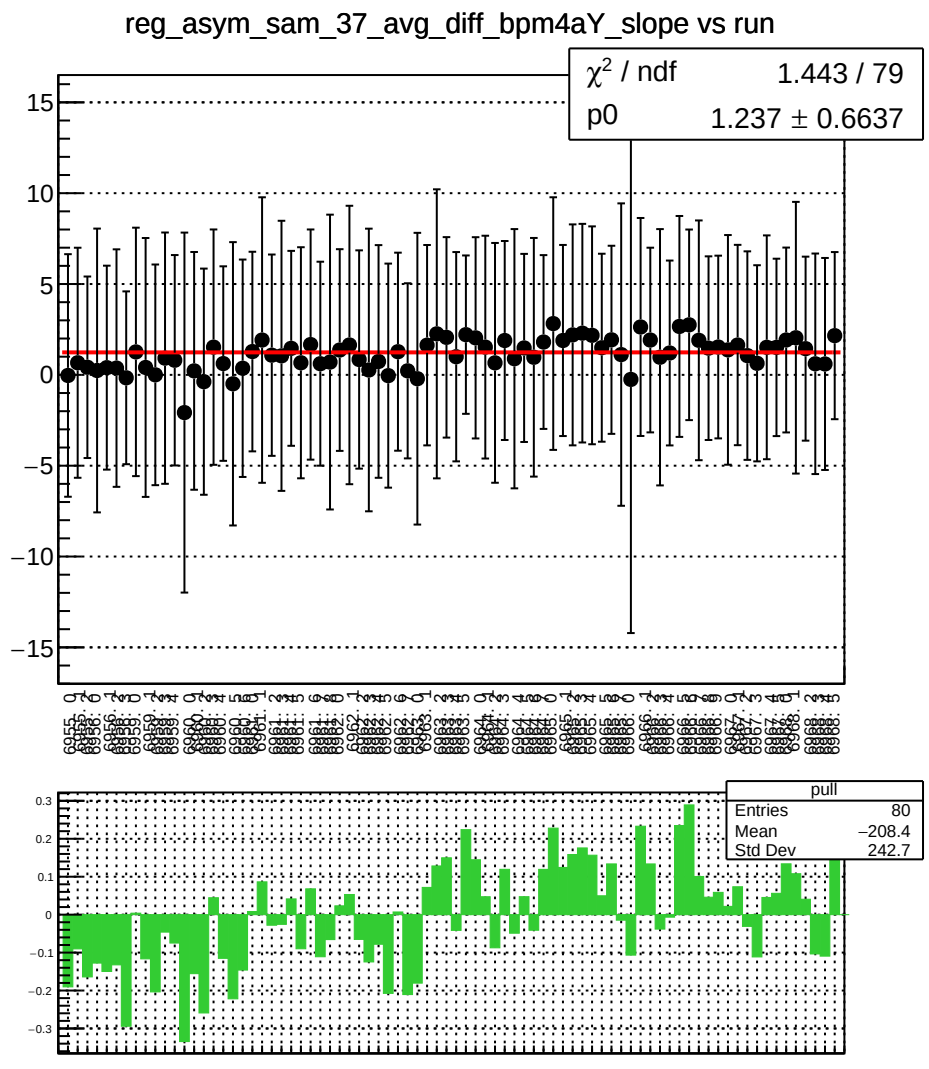

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.05 / 79
p0 −34.83 ± 0.6159
pull
Entries 80
Mean 379
Std Dev 337.3
pull1D
Entries 80
Mean 0.01767
Std Dev 0.3876

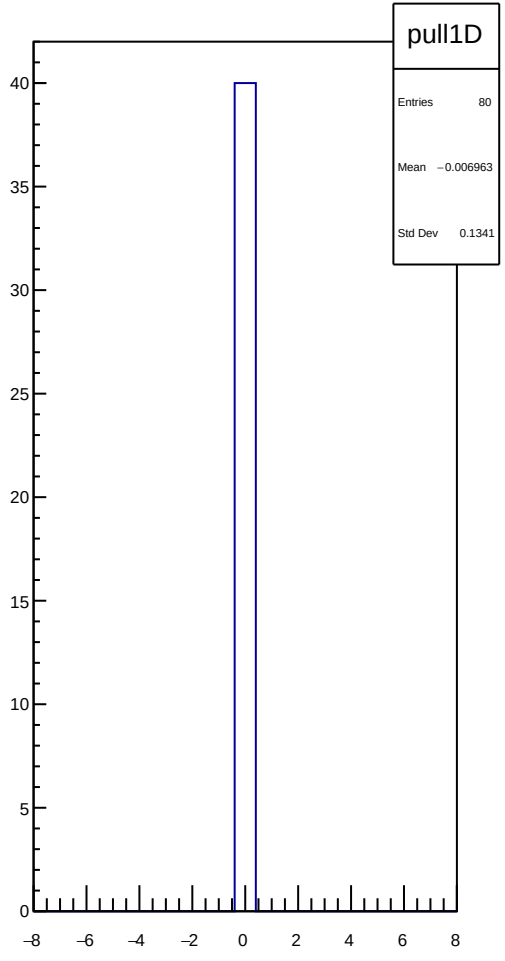

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 17.08 / 79
p0 0.5589 ± 0.02389
pull
Entries 80
Mean 923.7
Std Dev 881.8

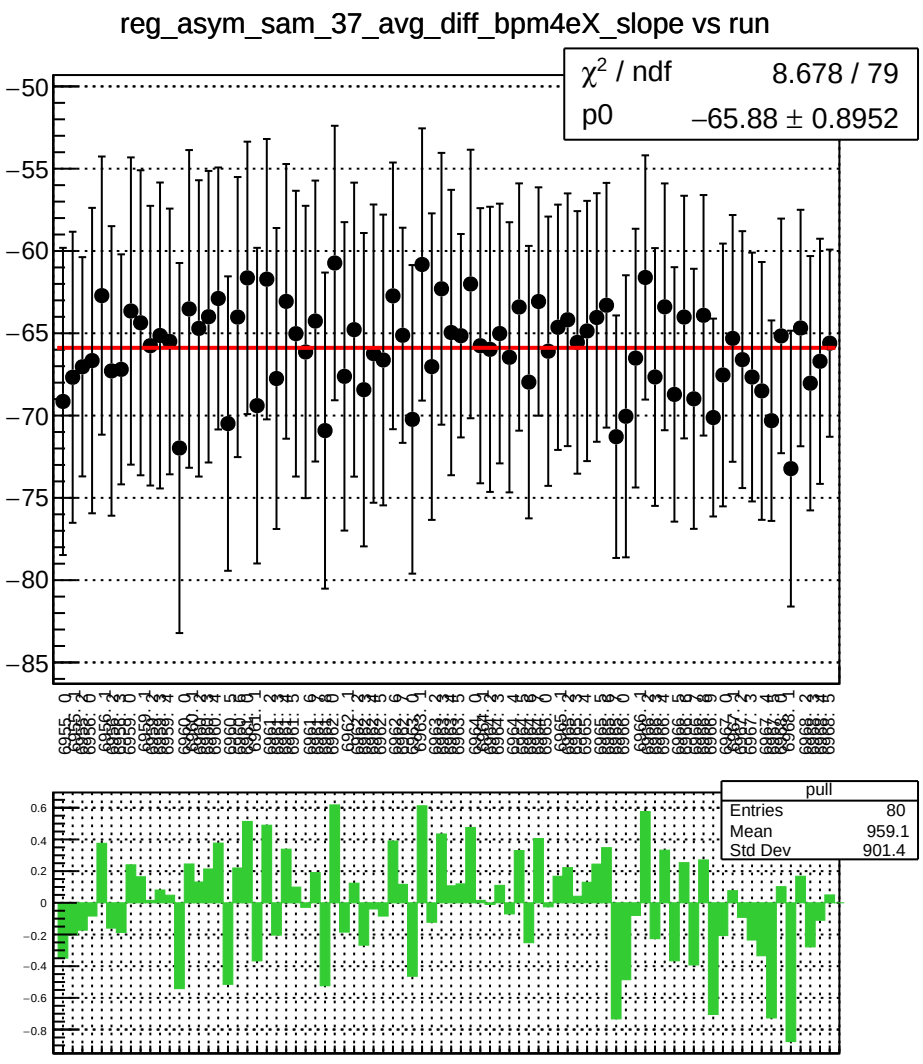

pull1D
Entries 80
Mean 0.007487
Std Dev 0.462

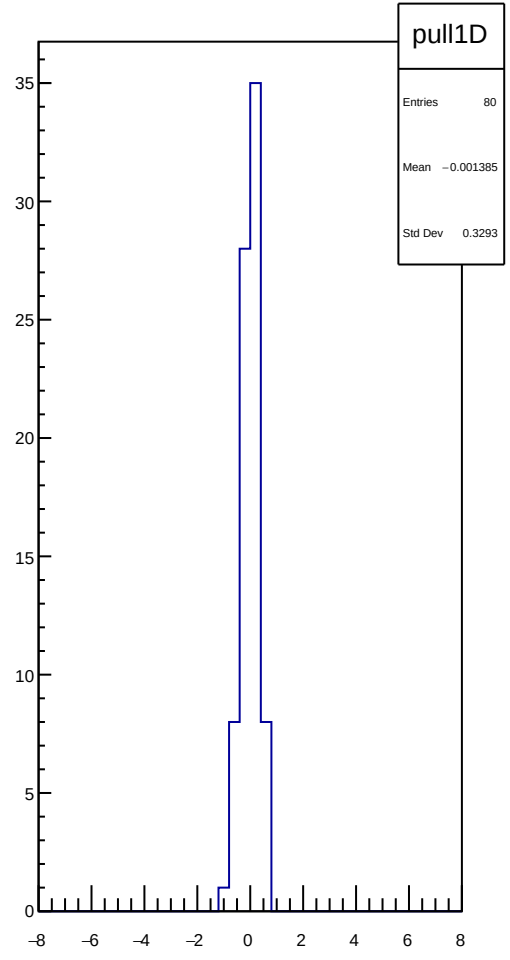

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 5.692 / 79
p0 −9.592 ± 0.9675
pull
Entries 80
Mean −377.9
Std Dev 428.6

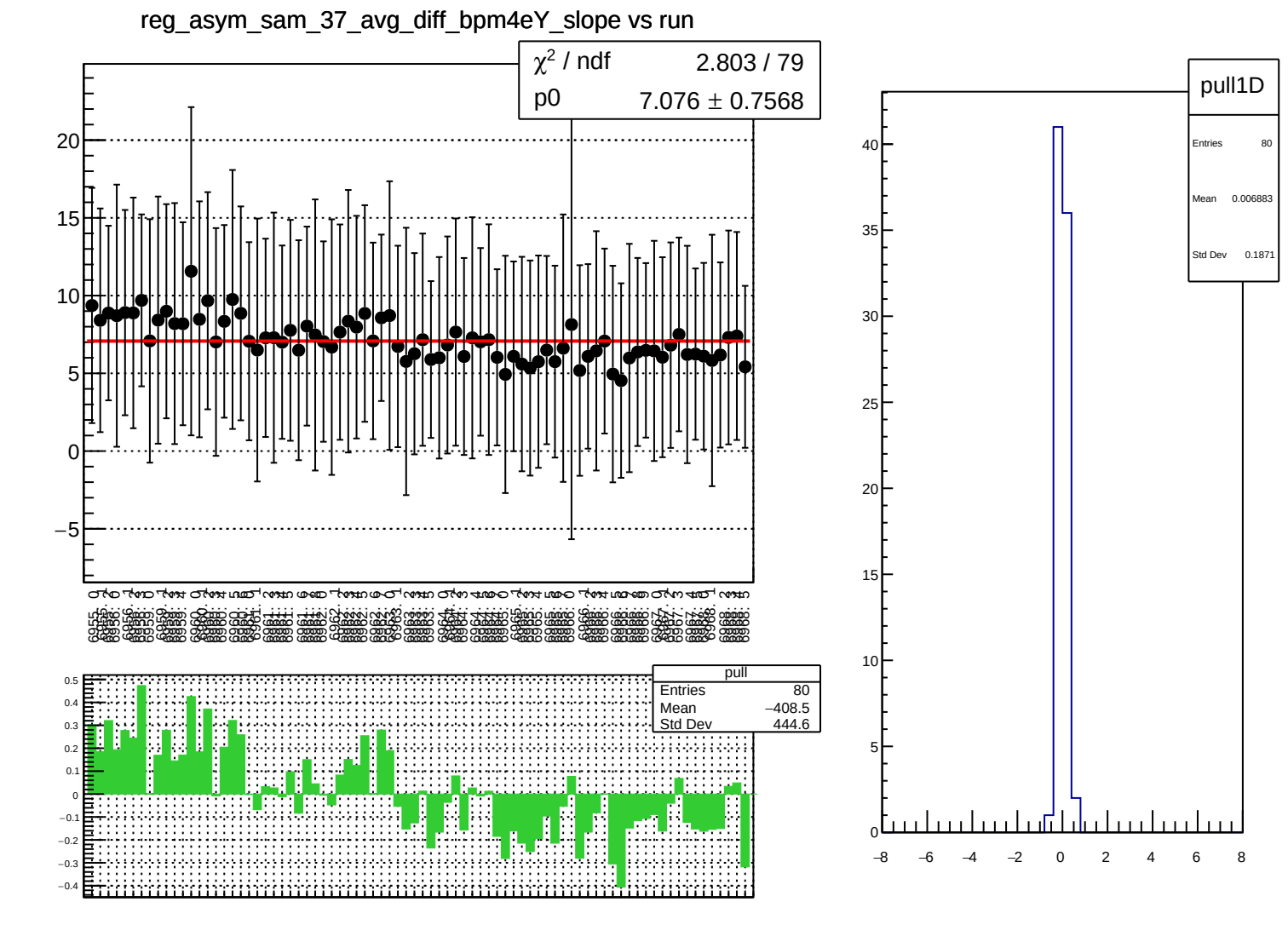

pull1D
Entries 80
Mean −0.005074
Std Dev 0.2667

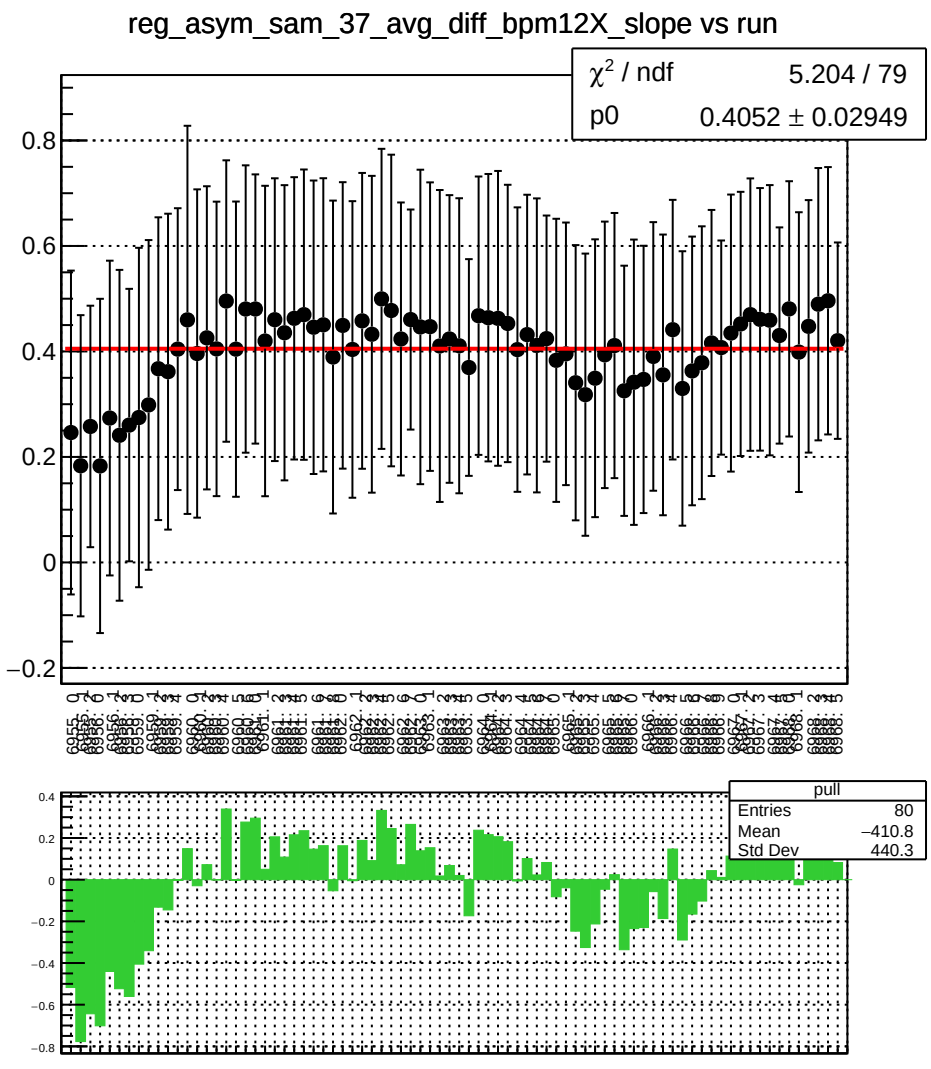

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.443 / 79
p0 1.237 ± 0.6637
pull
Entries 80
Mean −208.4
Std Dev 242.7

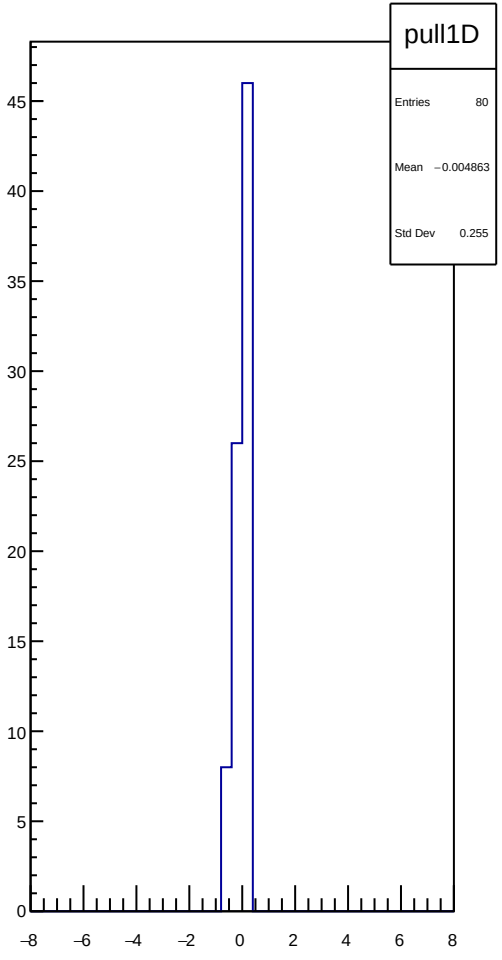

pull1D
Entries 80
Mean −0.006963
Std Dev 0.1341

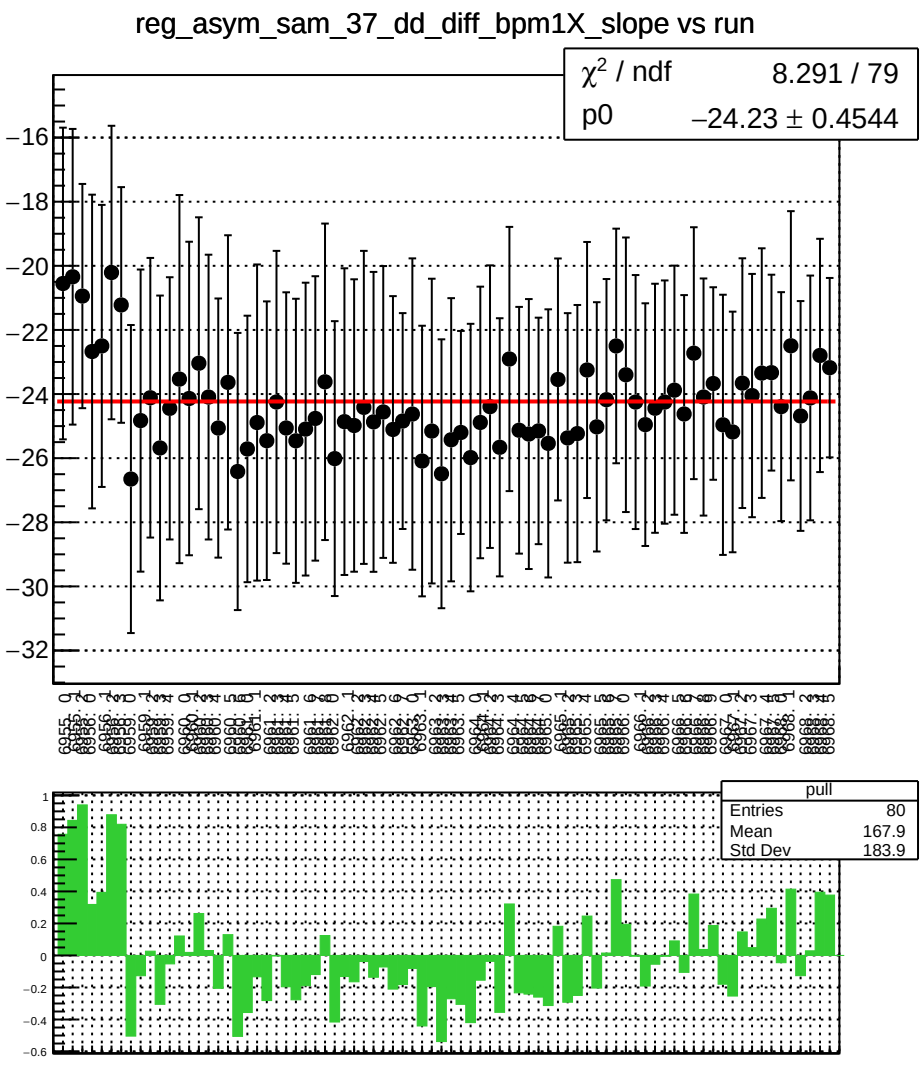

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.678 / 79
p0 −65.88 ± 0.8952
pull
Entries 80
Mean 959.1
Std Dev 901.4

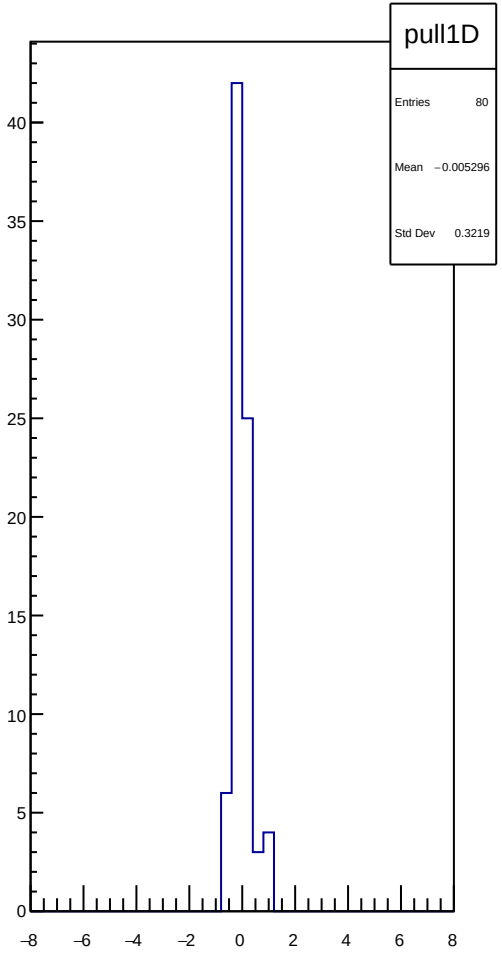

pull1D
Entries 80
Mean −0.001385
Std Dev 0.3293

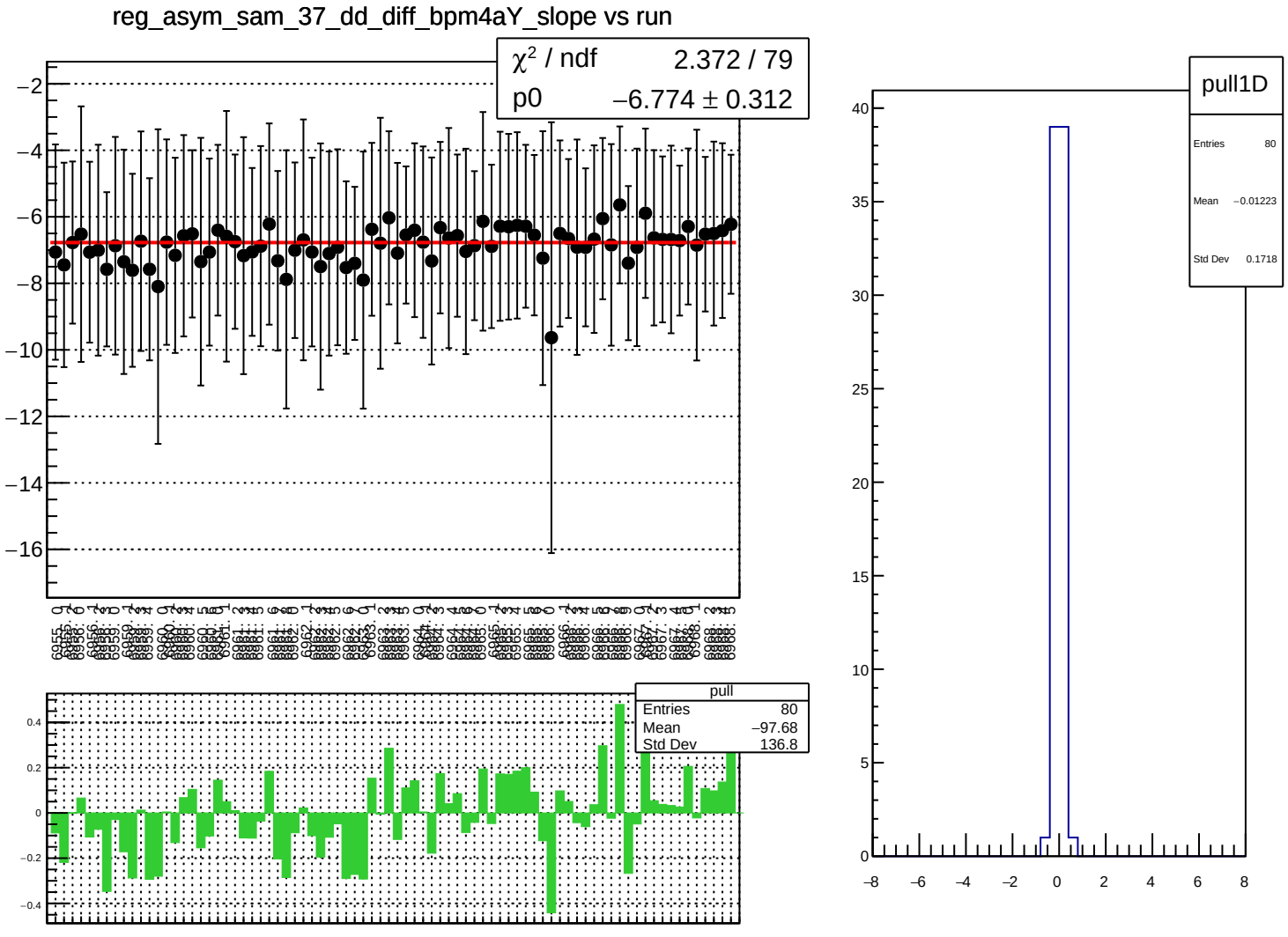

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.803 / 79
p0 7.076 ± 0.7568
pull
Entries 80
Mean −408.5
Std Dev 444.6
pull1D
Entries 80
Mean 0.006883
Std Dev 0.1871

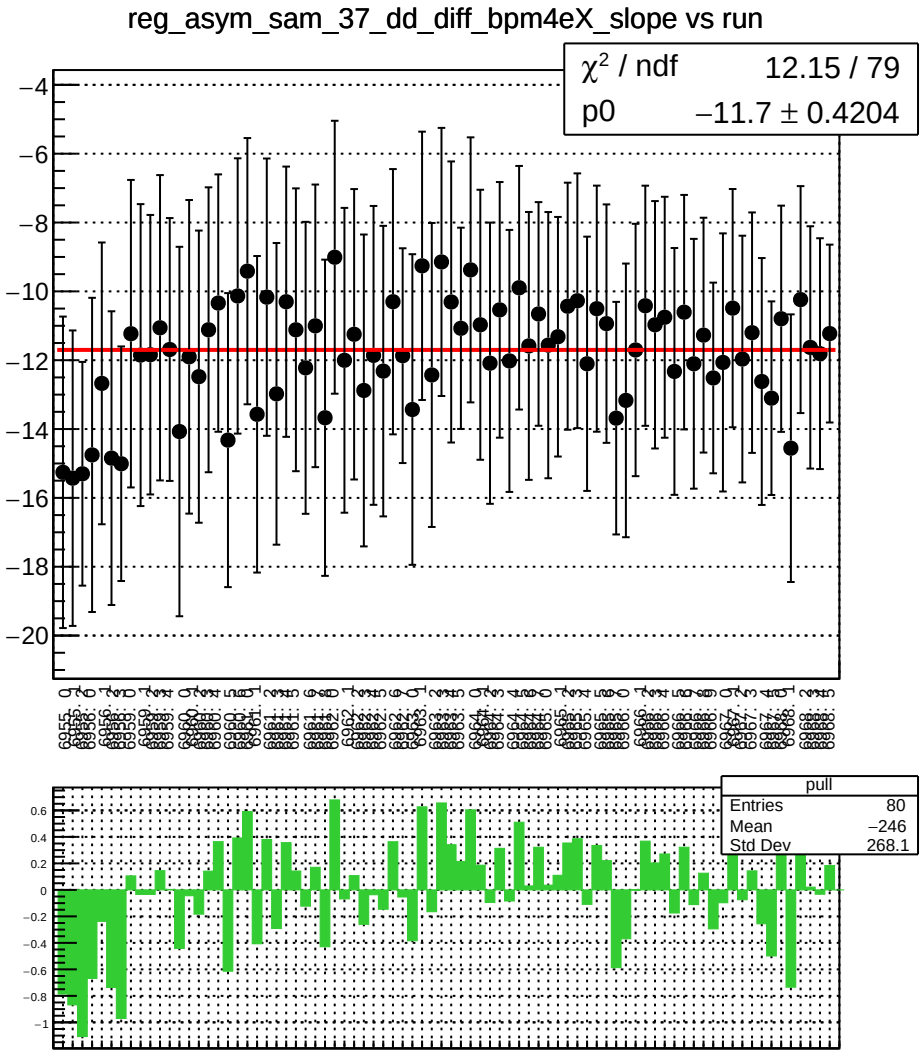

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 5.204 / 79
p0 0.4052 ± 0.02949
pull
Entries 80
Mean −410.8
Std Dev 440.3

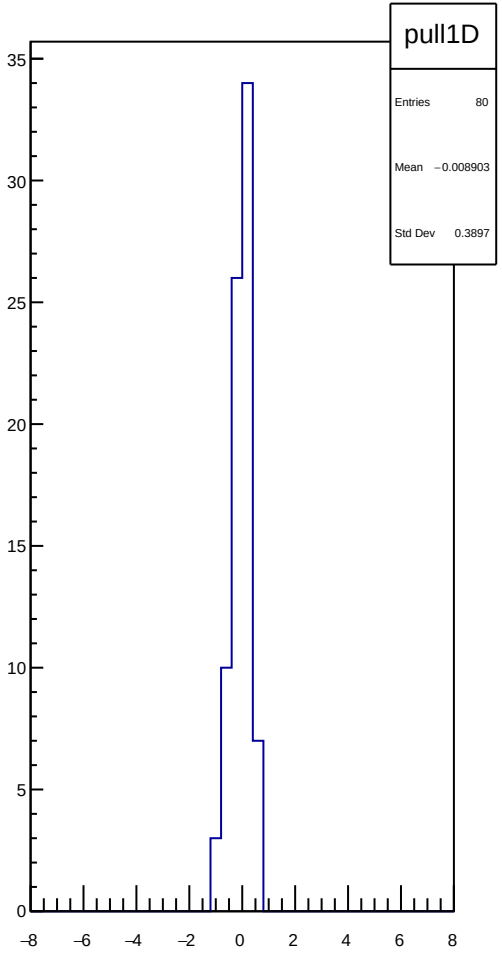

pull1D
Entries 80
Mean −0.004863
Std Dev 0.255

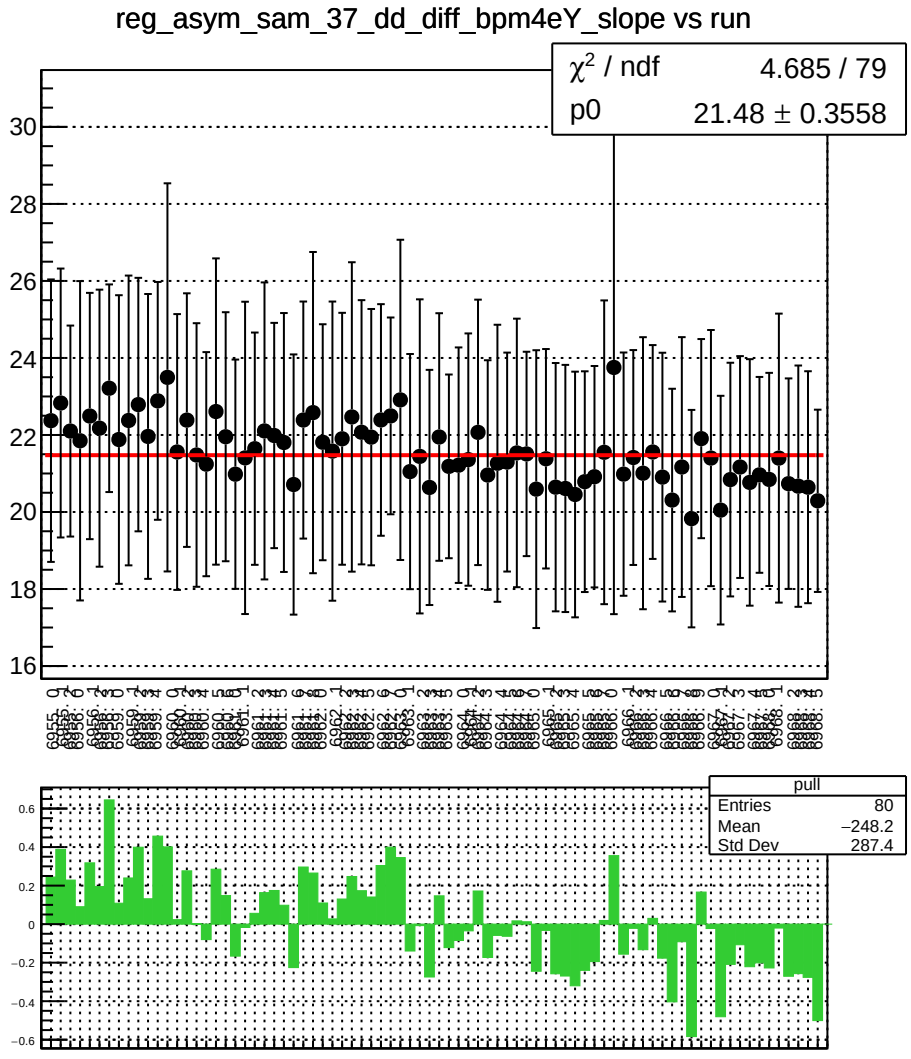

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 8.291 / 79
p0 −24.23 ± 0.4544
pull
Entries 80
Mean 167.9
Std Dev 183.9

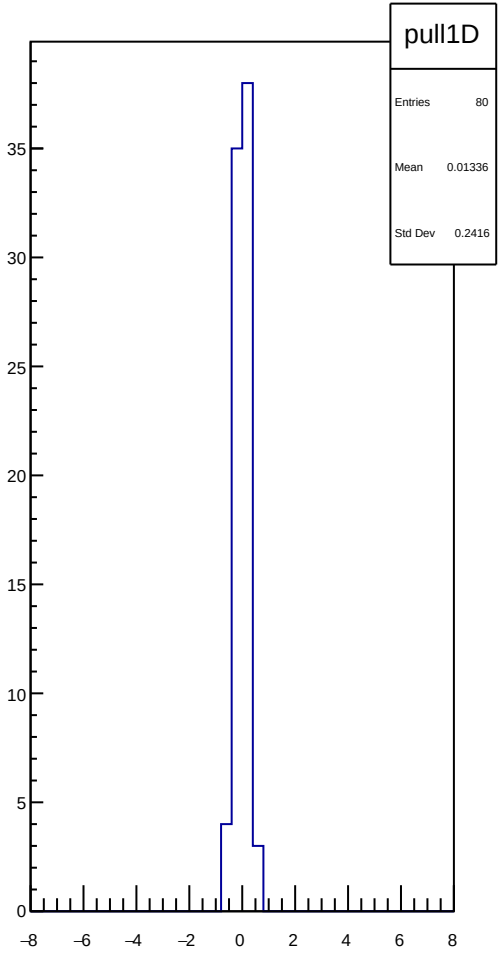

pull1D
Entries 80
Mean −0.005296
Std Dev 0.3219

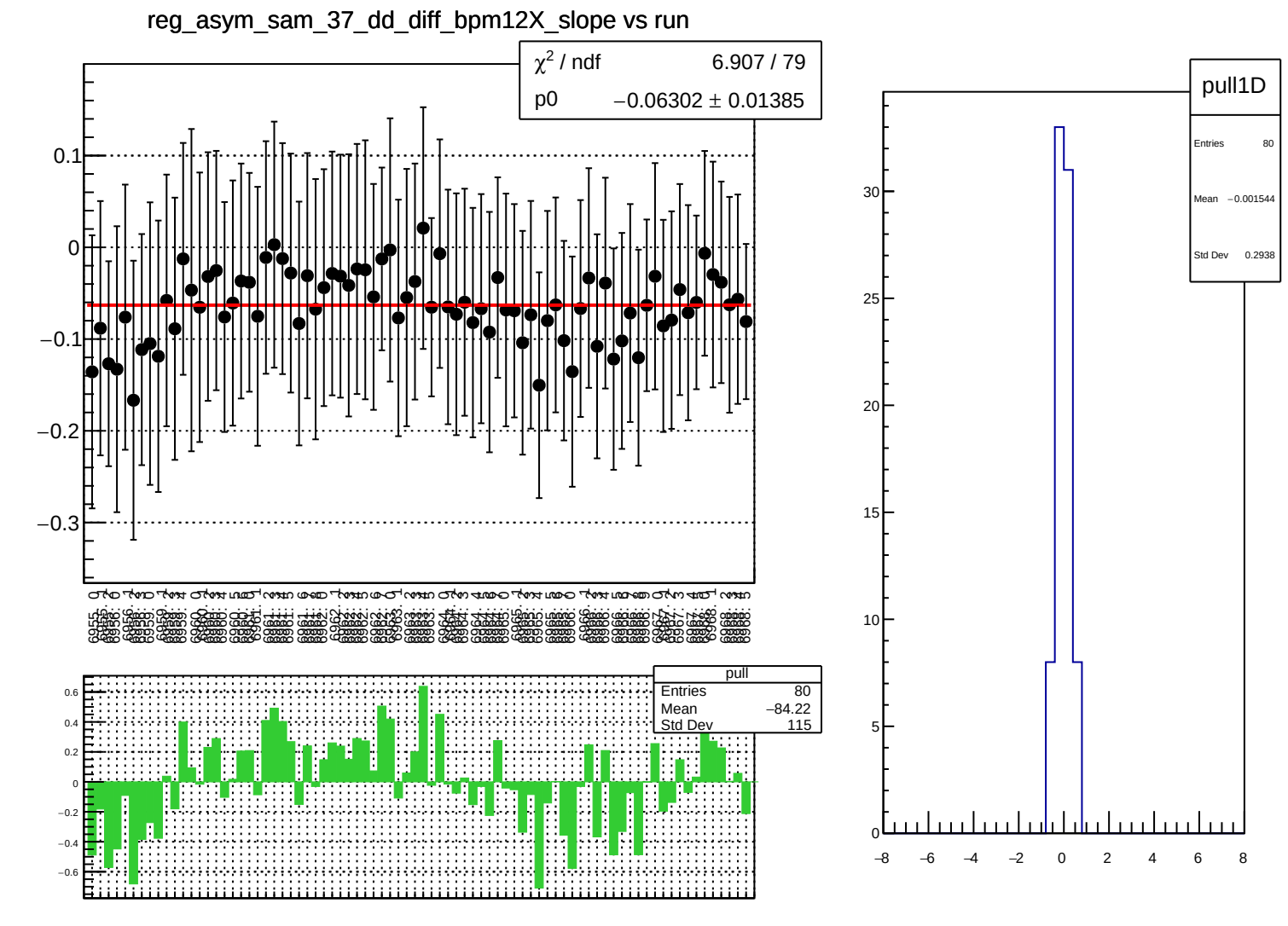

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.372 / 79
p0 −6.774 ± 0.312
pull
Entries 80
Mean −97.68
Std Dev 136.8
pull1D
Entries 80
Mean −0.01223
Std Dev 0.1718

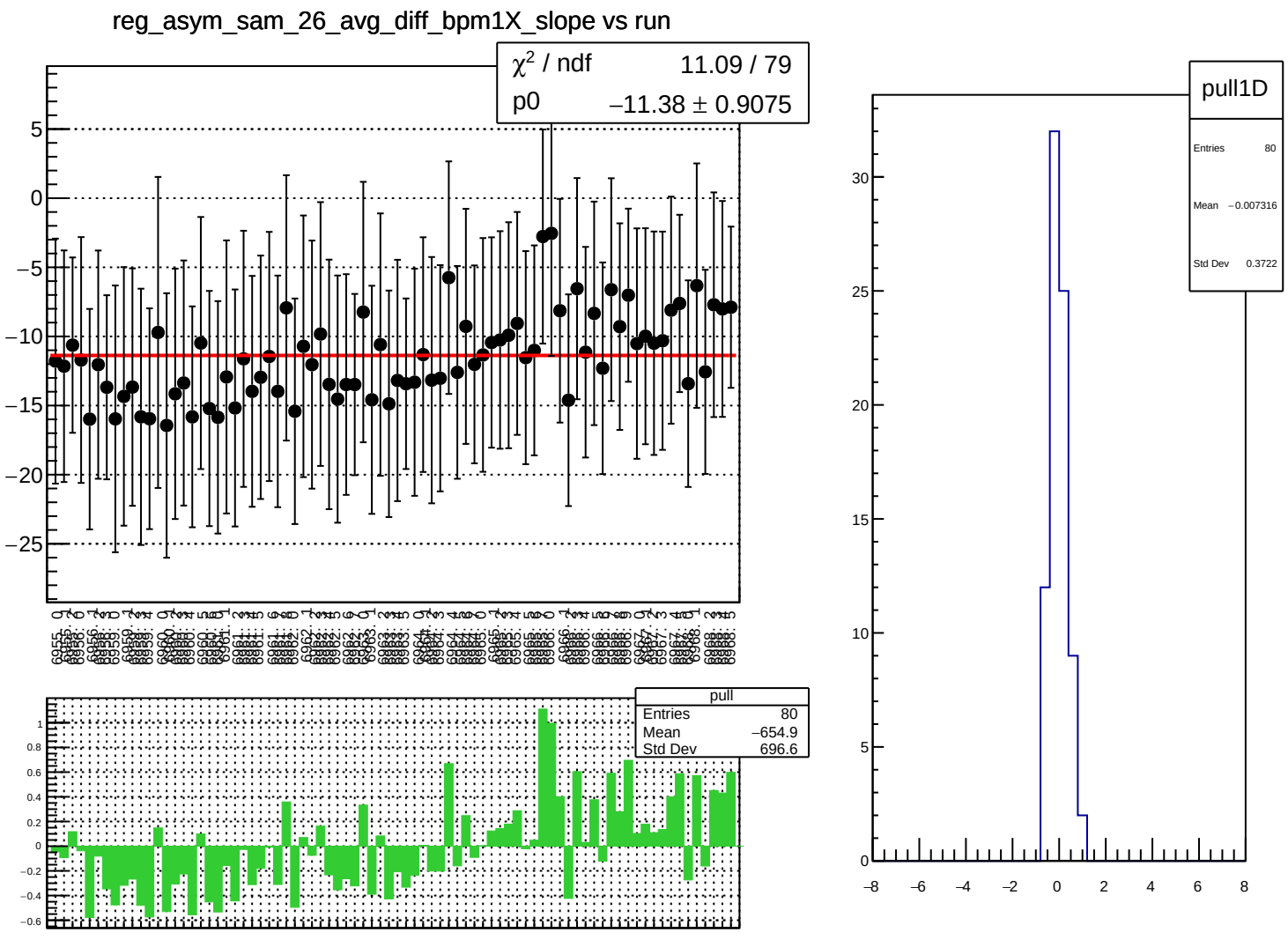

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.15 / 79
p0 −11.7 ± 0.4204
pull
Entries 80
Mean −246
Std Dev 268.1

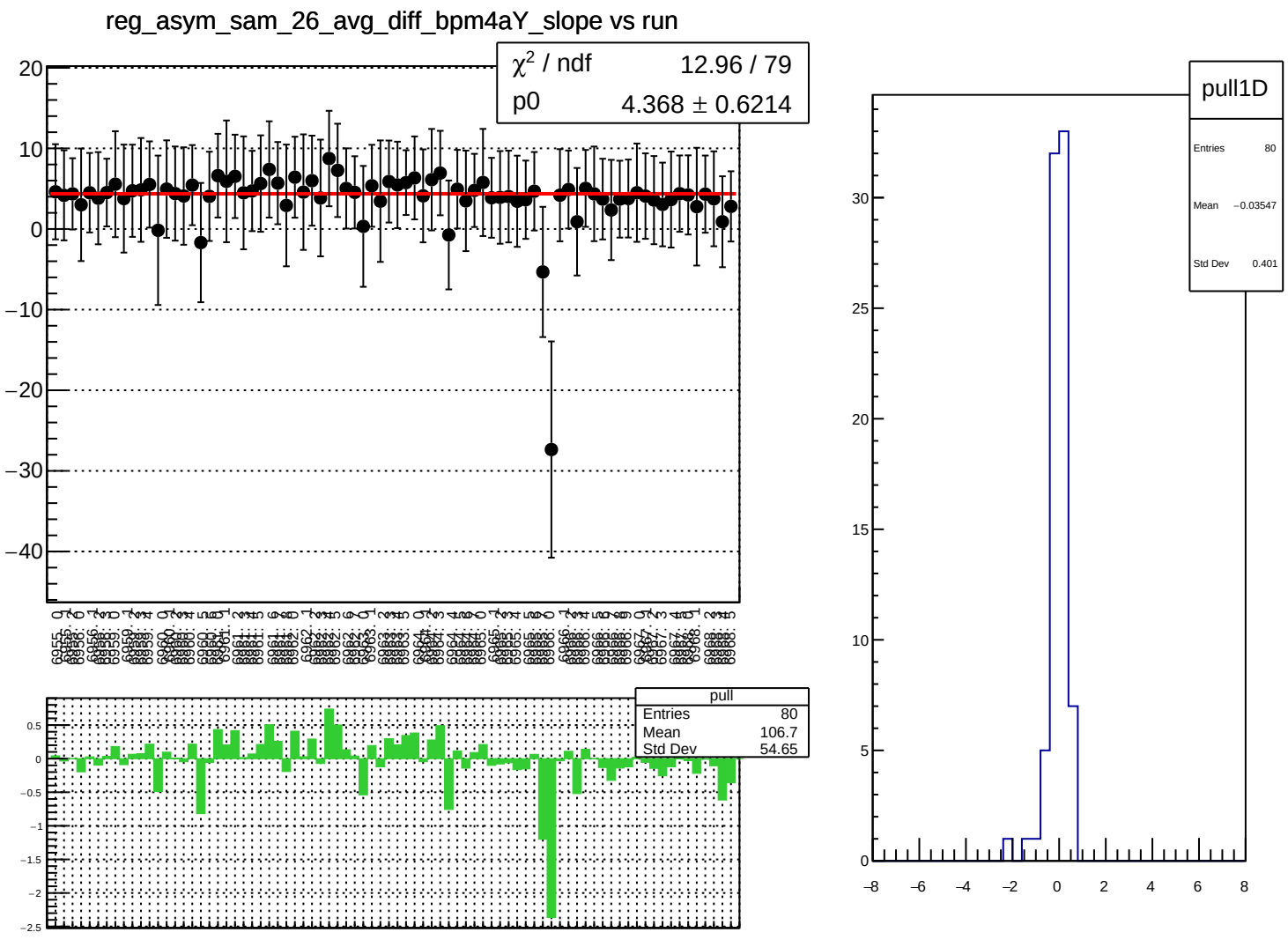

pull1D
Entries 80
Mean −0.008903
Std Dev 0.3897

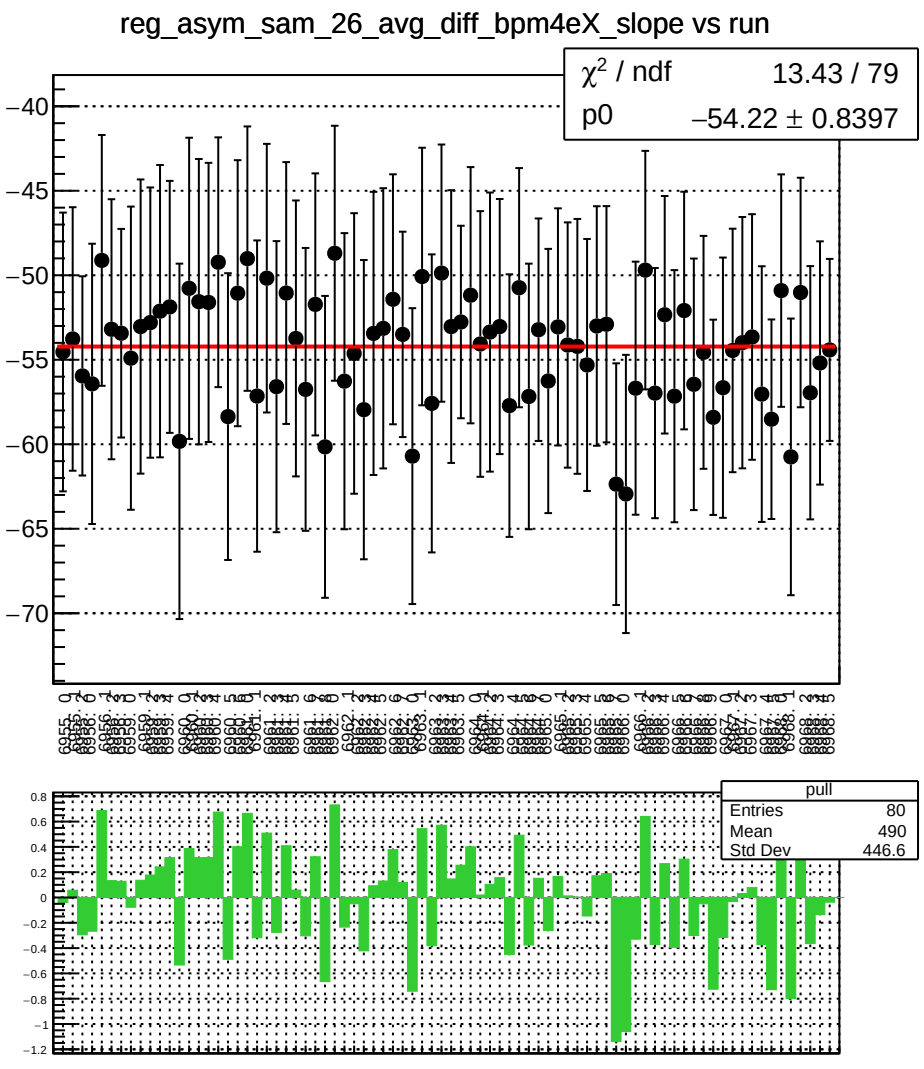

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.685 / 79
p0 21.48 ± 0.3558
pull
Entries 80
Mean −248.2
Std Dev 287.4

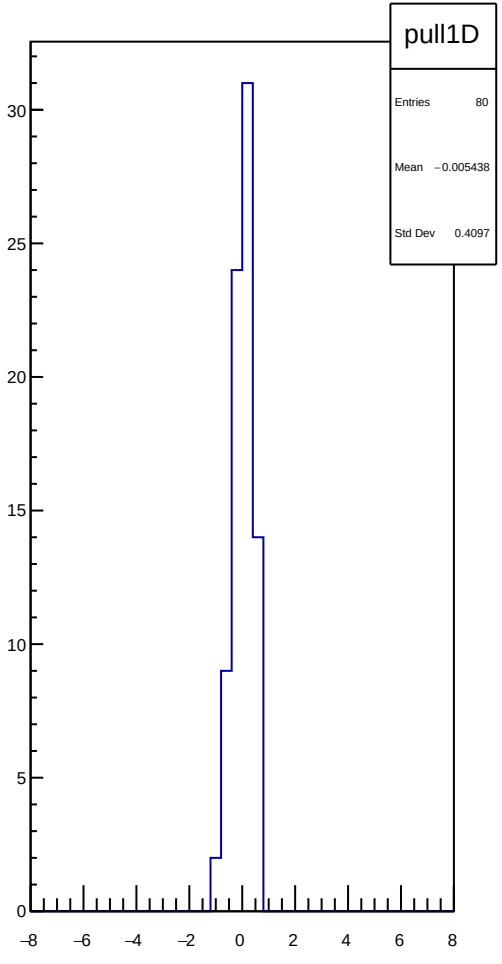

pull1D
Entries 80
Mean 0.01336
Std Dev 0.2416

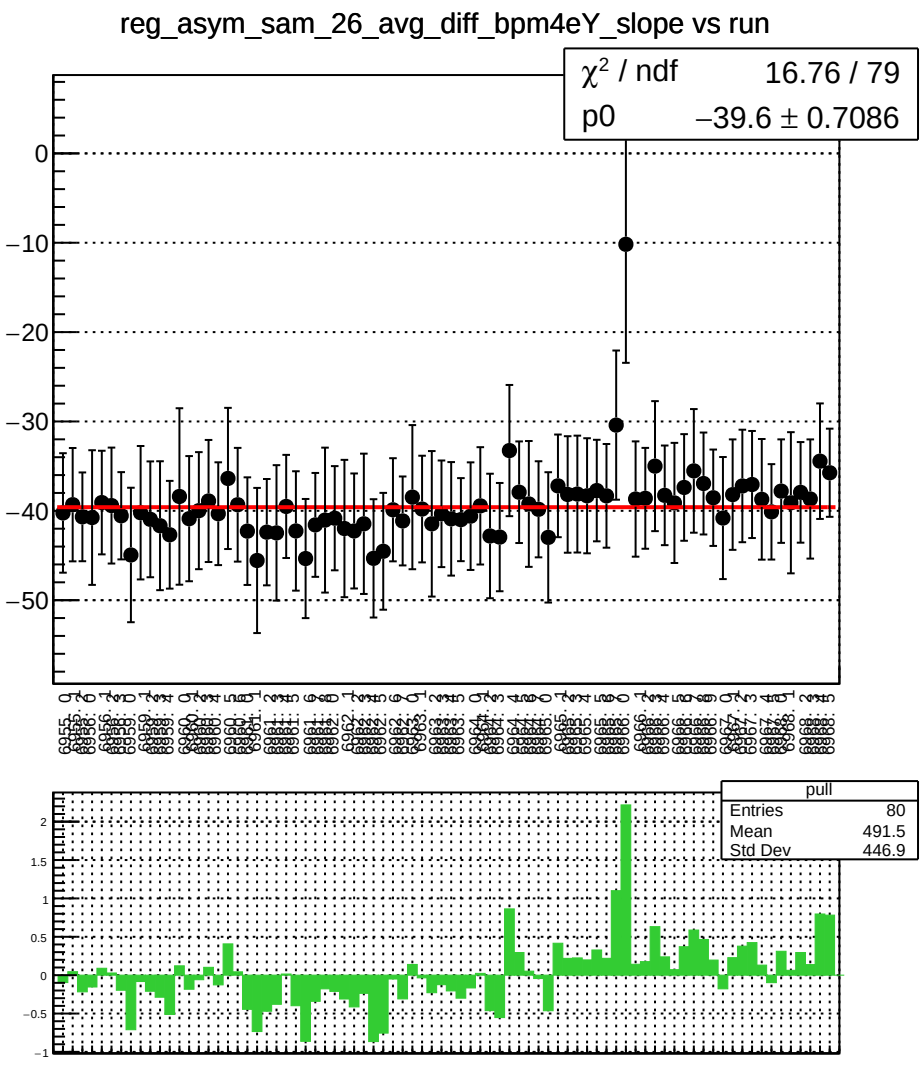

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 6.907 / 79
p0 −0.06302 ± 0.01385
pull
Entries 80
Mean −84.22
Std Dev 115
pull1D
Entries 80
Mean −0.001544
Std Dev 0.2938

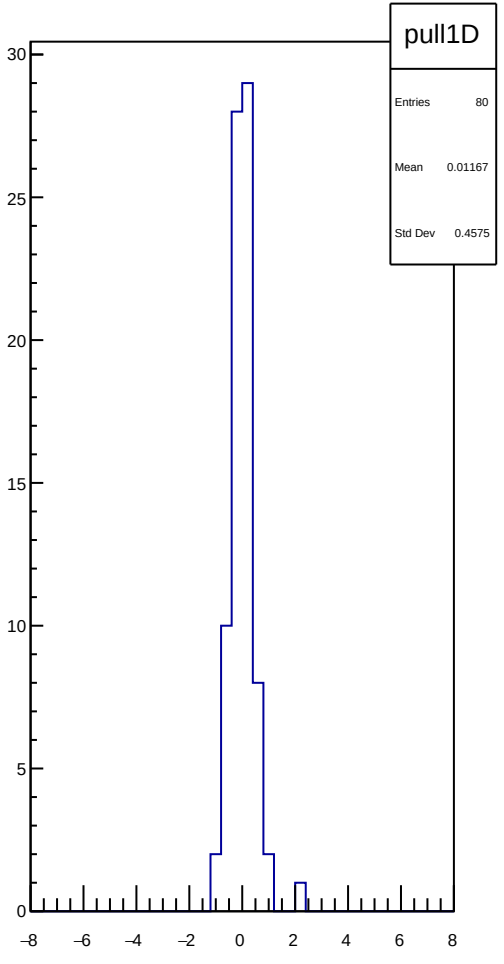

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 11.09 / 79
p0 −11.38 ± 0.9075
pull
Entries 80
Mean −654.9
Std Dev 696.6
pull1D
Entries 80
Mean −0.007316
Std Dev 0.3722

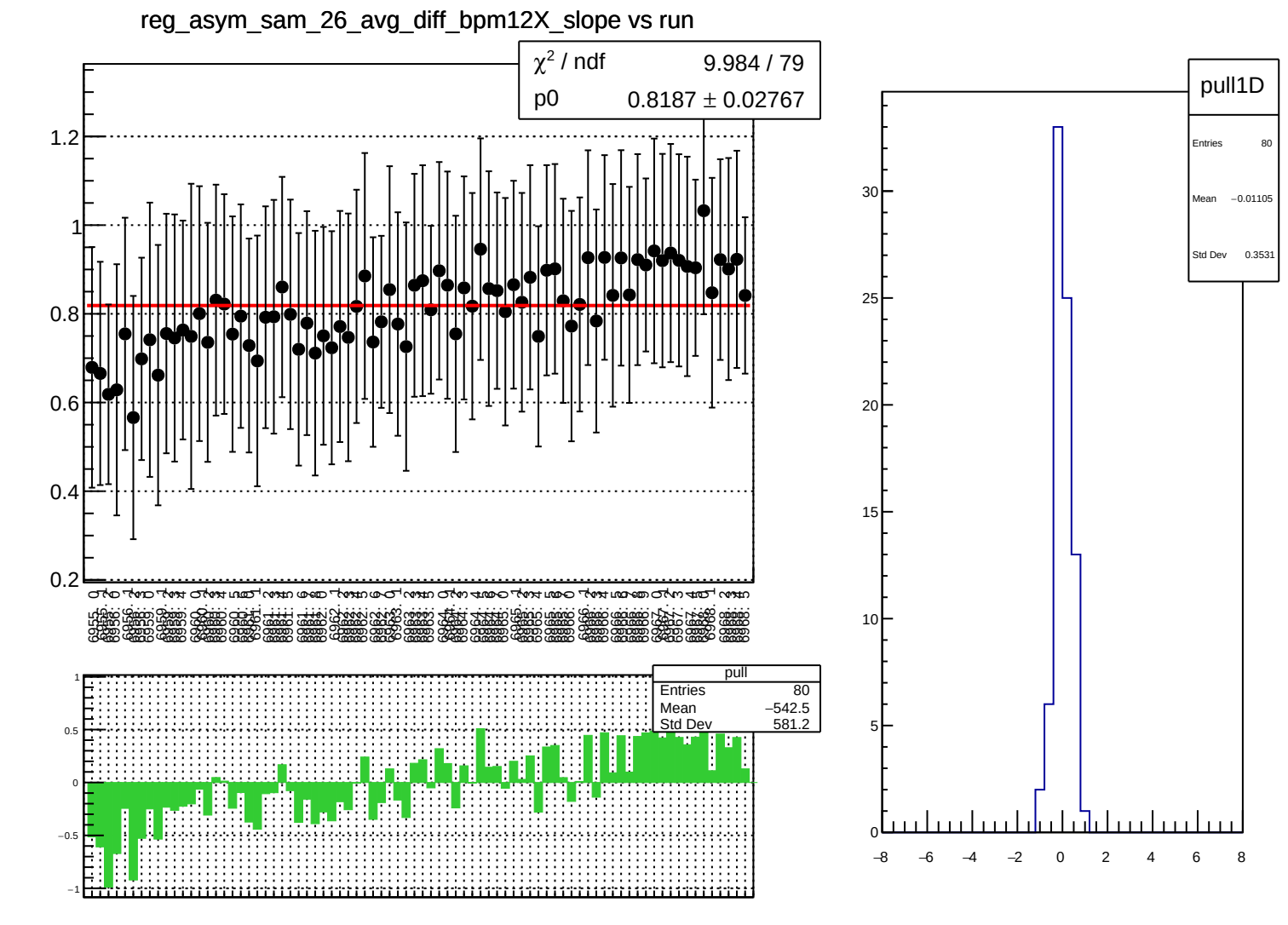

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.96 / 79
p0 4.368 ± 0.6214
pull
Entries 80
Mean 106.7
Std Dev 54.65
pull1D
Entries 80
Mean −0.03547
Std Dev 0.401

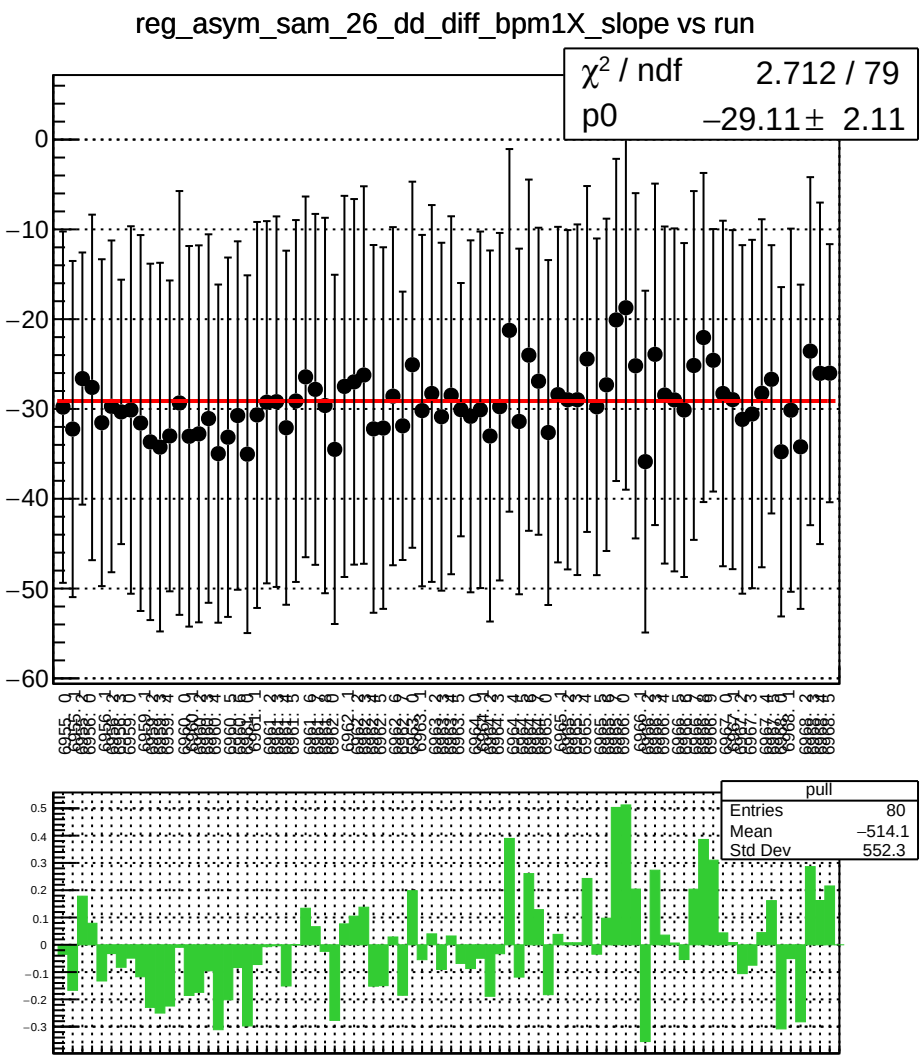

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.43 / 79
p0 −54.22 ± 0.8397
pull
Entries 80
Mean 490
Std Dev 446.6

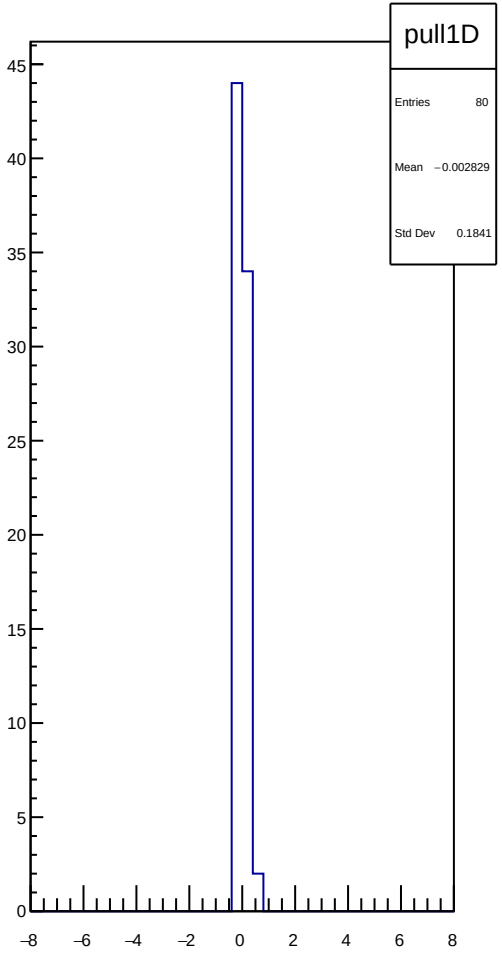

pull1D
Entries 80
Mean −0.005438
Std Dev 0.4097

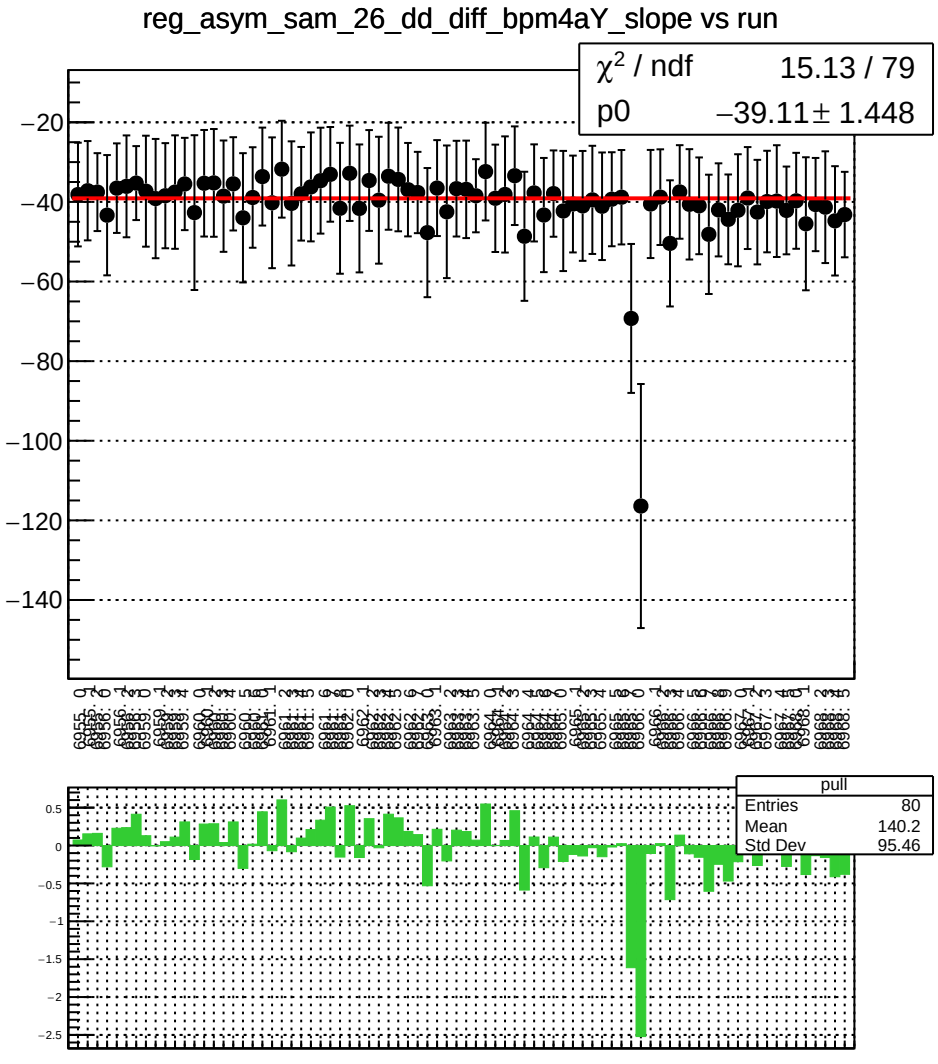

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.76 / 79
p0 −39.6 ± 0.7086
pull
Entries 80
Mean 491.5
Std Dev 446.9

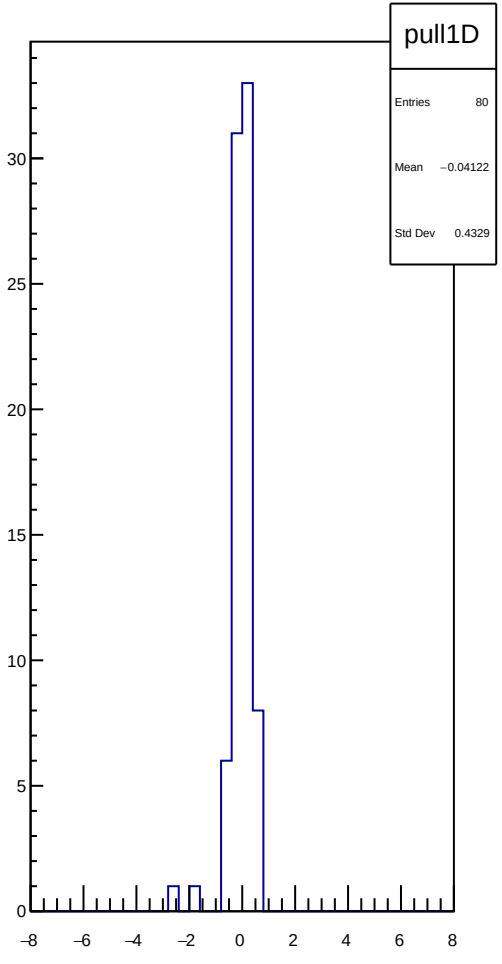

pull1D
Entries 80
Mean 0.01167
Std Dev 0.4575

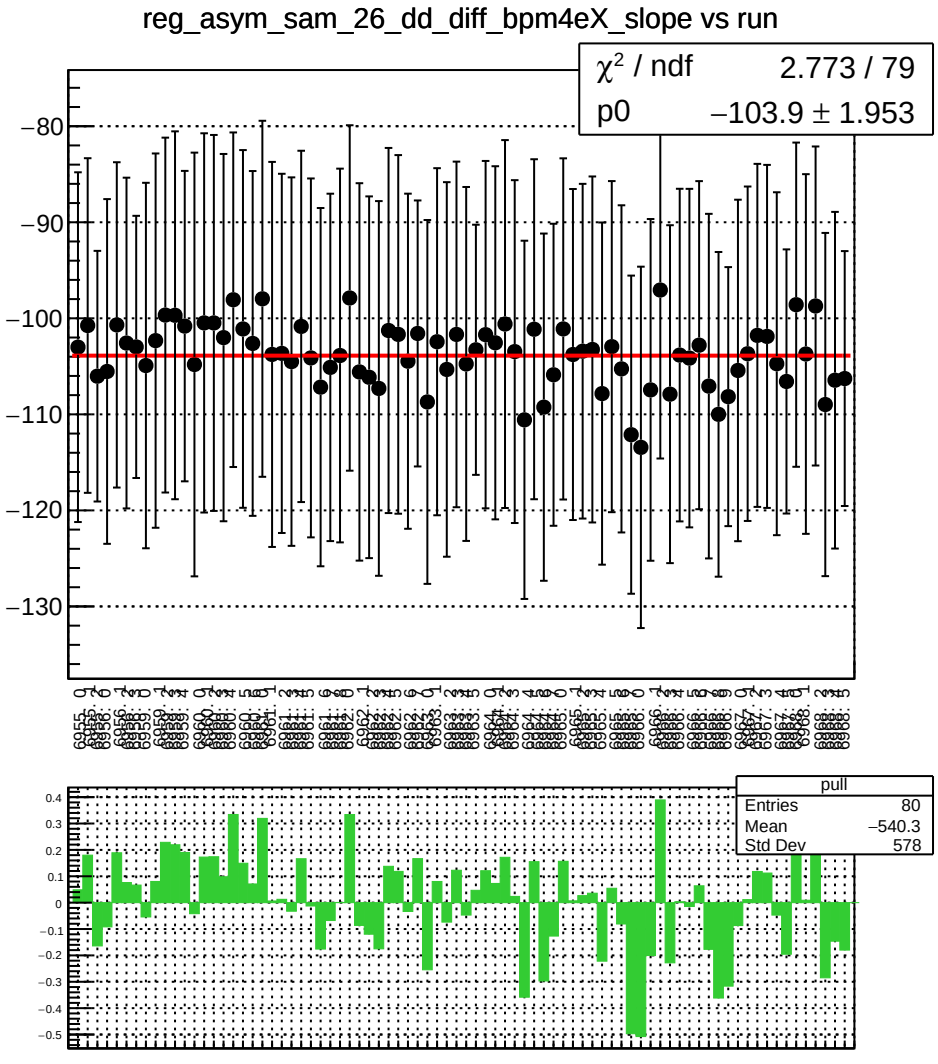

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 9.984 / 79
p0 0.8187 ± 0.02767
pull
Entries 80
Mean −542.5
Std Dev 581.2
pull1D
Entries 80
Mean −0.01105
Std Dev 0.3531

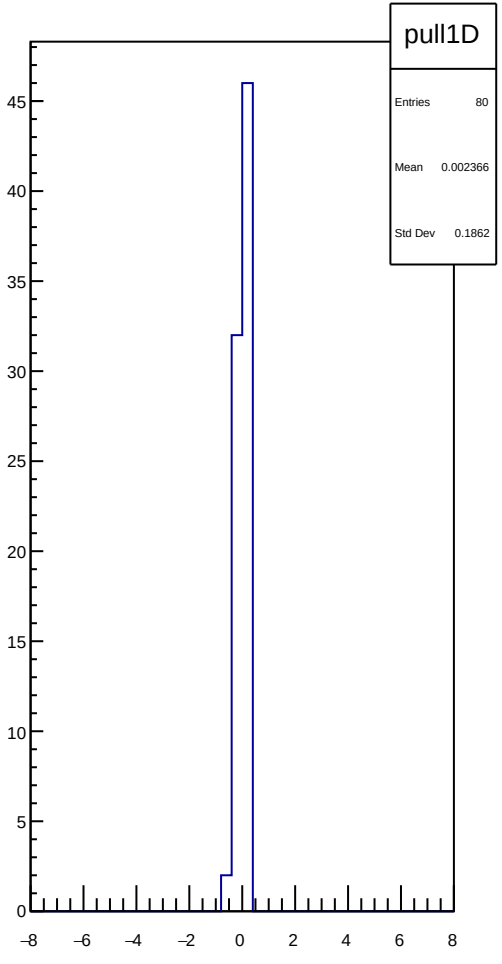

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.712 / 79
p0 −29.11 ± 2.11
pull
Entries 80
Mean −514.1
Std Dev 552.3

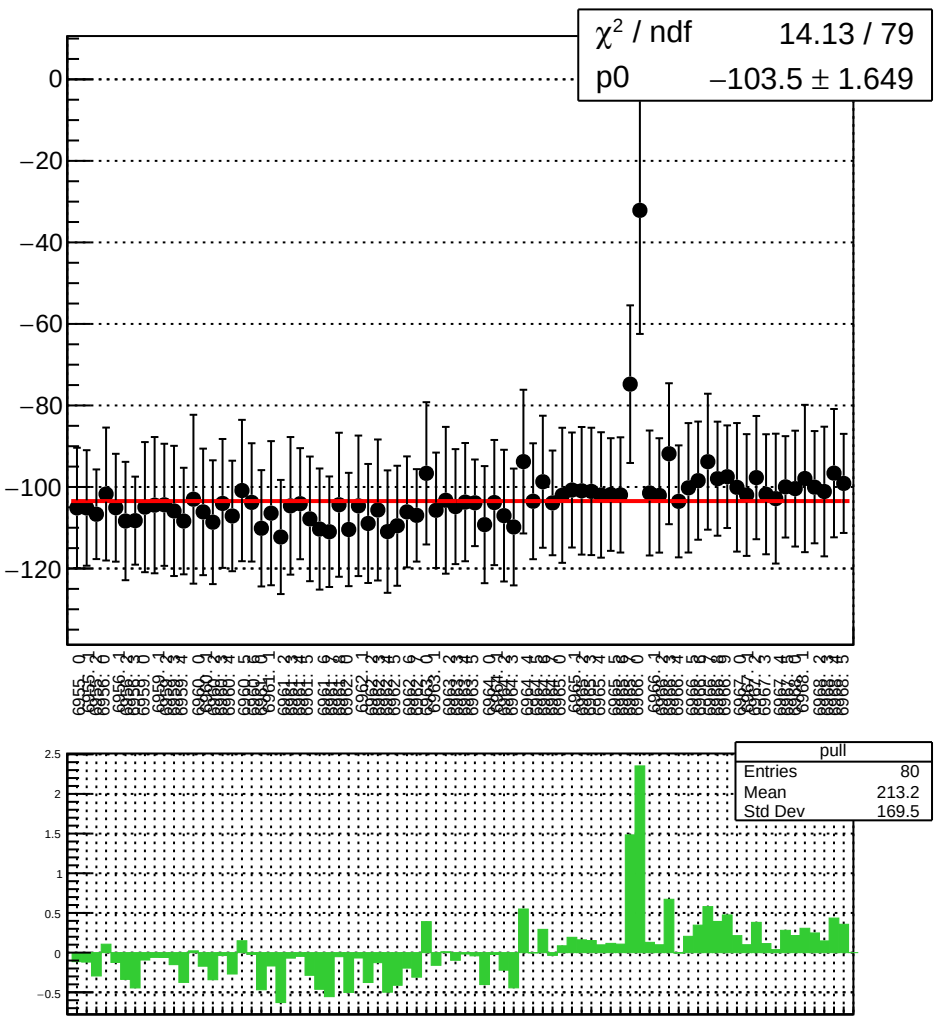

pull1D
Entries 80
Mean −0.002829
Std Dev 0.1841

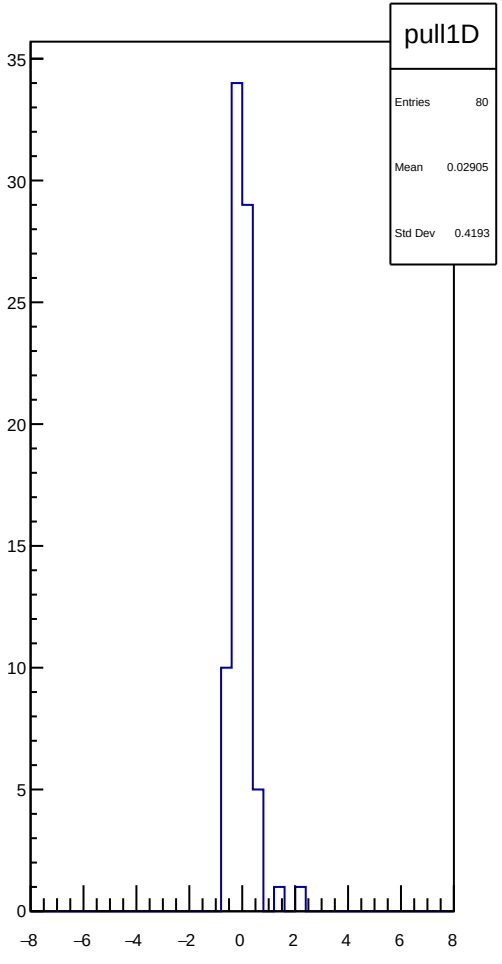

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.13 / 79
p0 −39.11 ± 1.448
pull
Entries 80
Mean 140.2
Std Dev 95.46

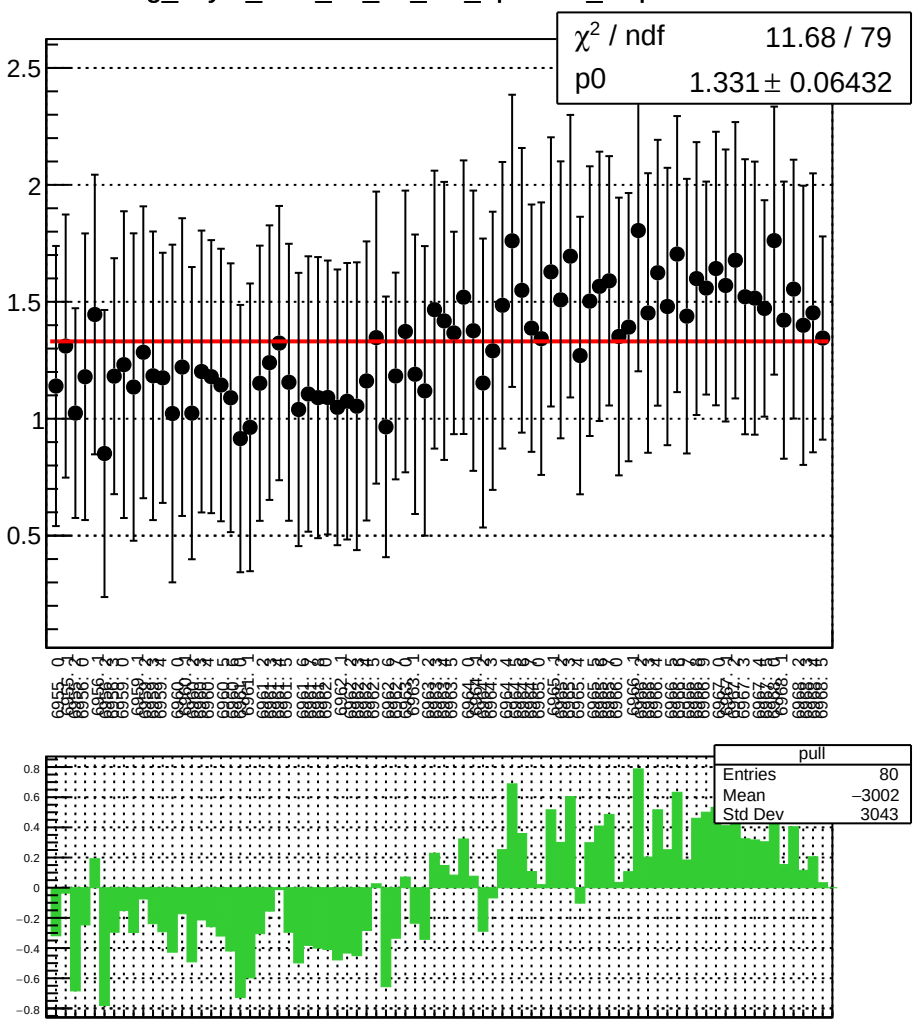

pull1D
Entries 80
Mean −0.04122
Std Dev 0.4329

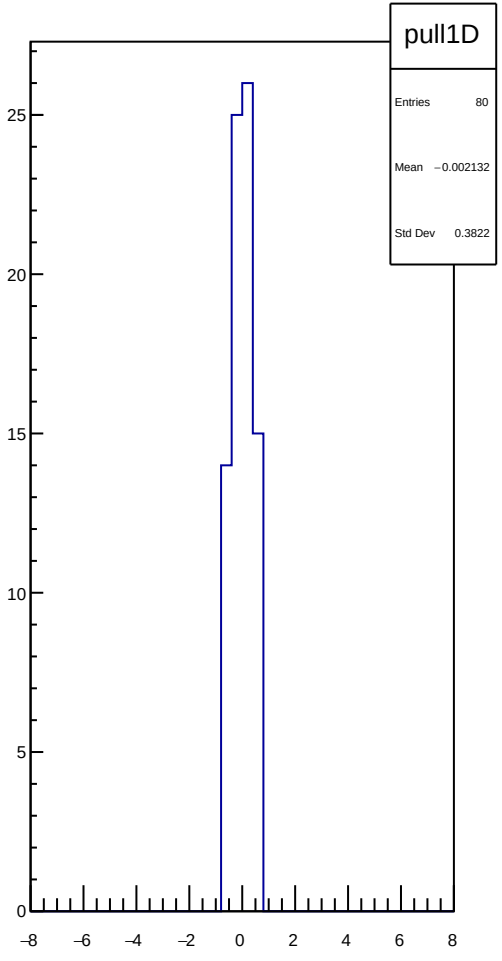

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.773 / 79
p0 −103.9 ± 1.953
pull
Entries 80
Mean −540.3
Std Dev 578

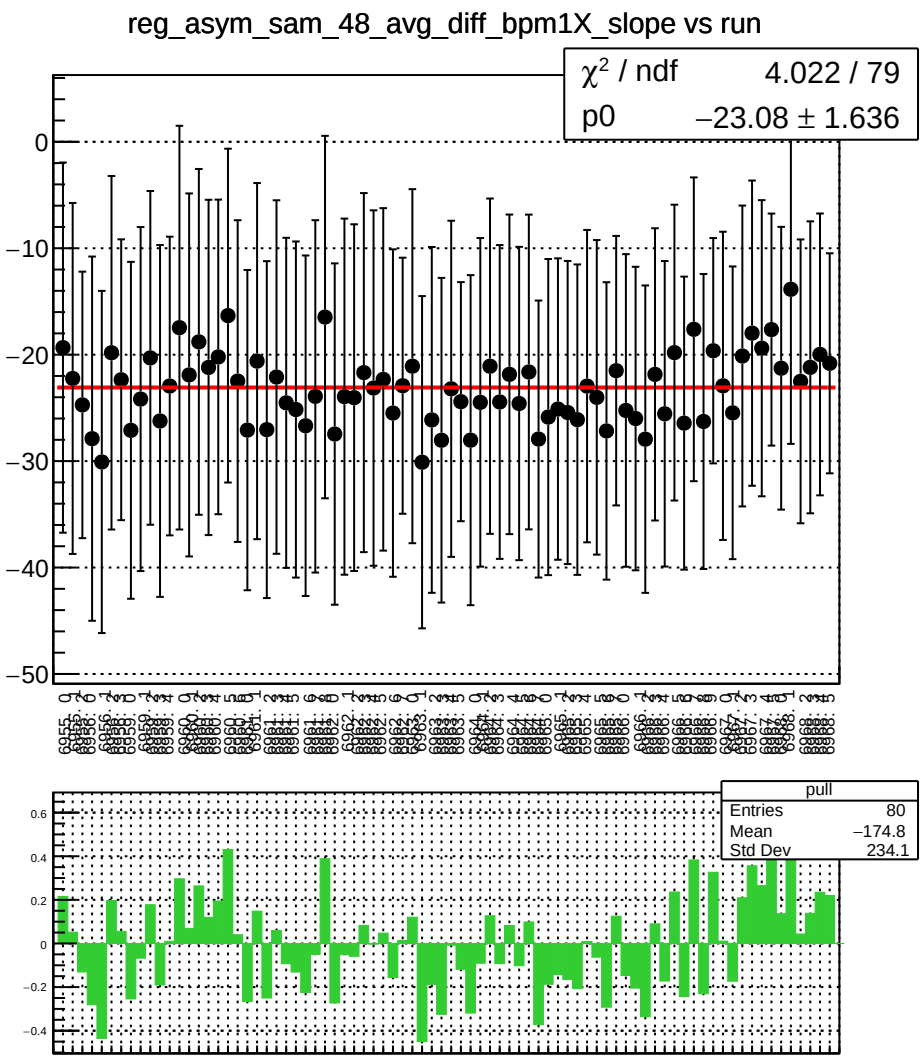

pull1D
Entries 80
Mean 0.002366
Std Dev 0.1862

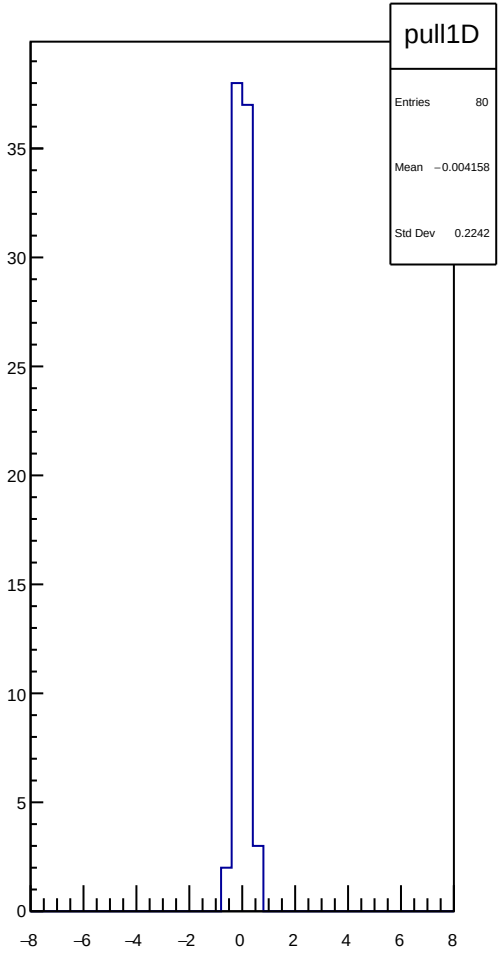

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.13 / 79
p0 −103.5 ± 1.649
pull
Entries 80
Mean 213.2
Std Dev 169.5

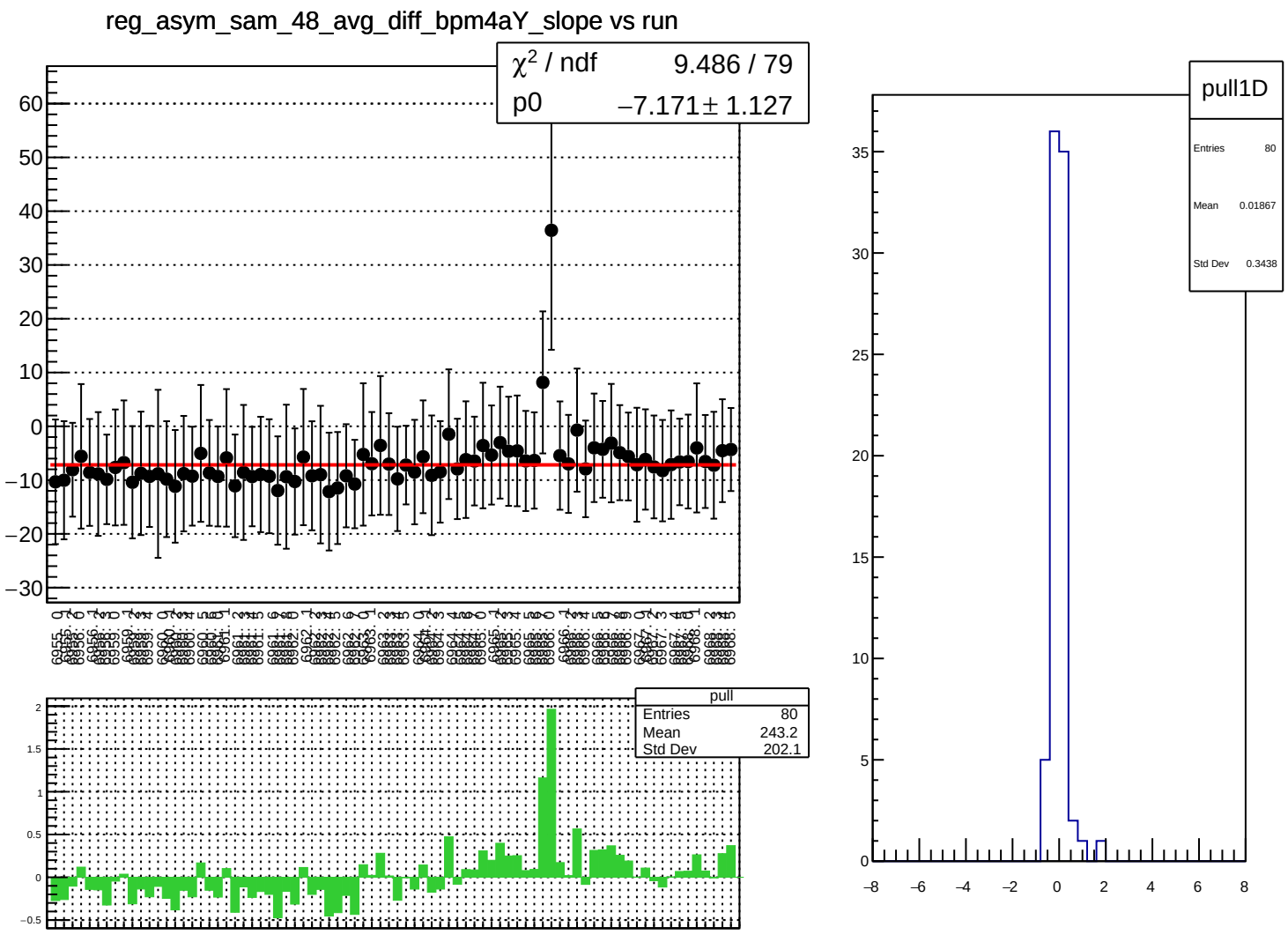

pull1D
Entries 80
Mean 0.02905
Std Dev 0.4193

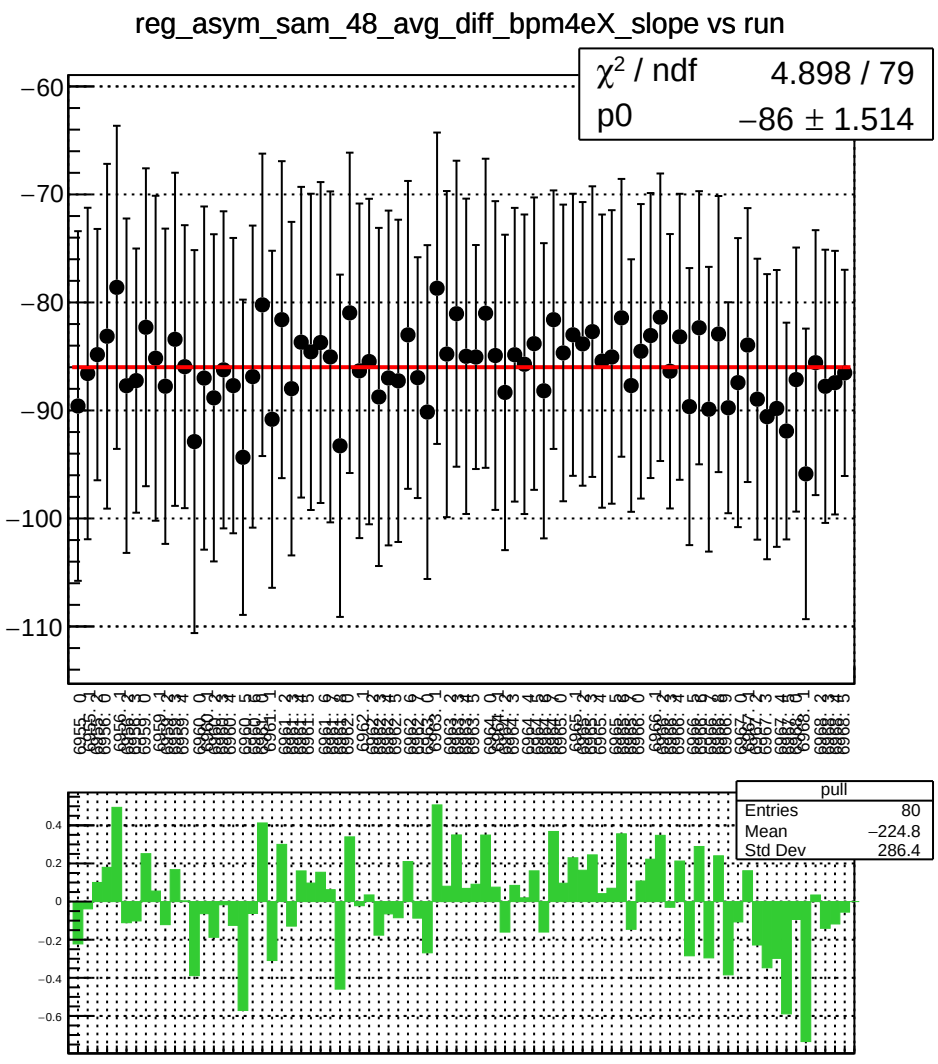

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 11.68 / 79
p0 1.331 ± 0.06432
pull
Entries 80
Mean −3002
Std Dev 3043

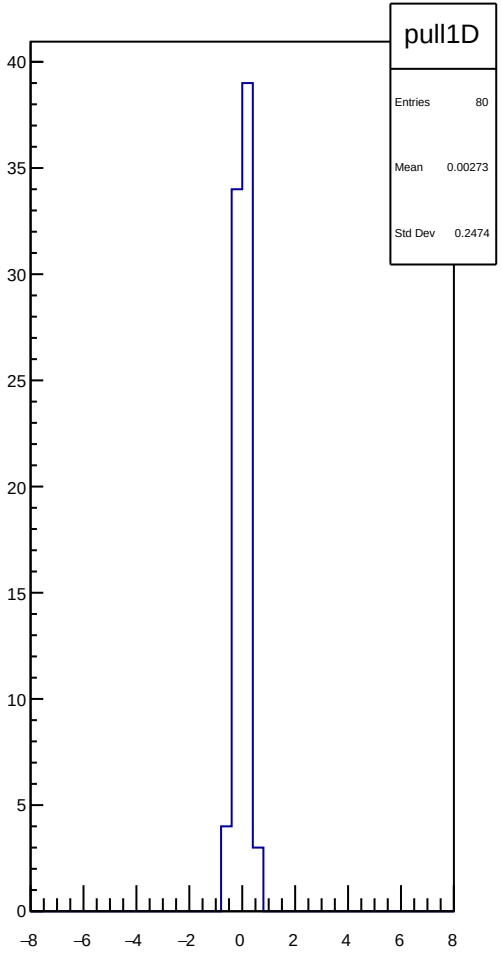

pull1D
Entries 80
Mean −0.002132
Std Dev 0.3822

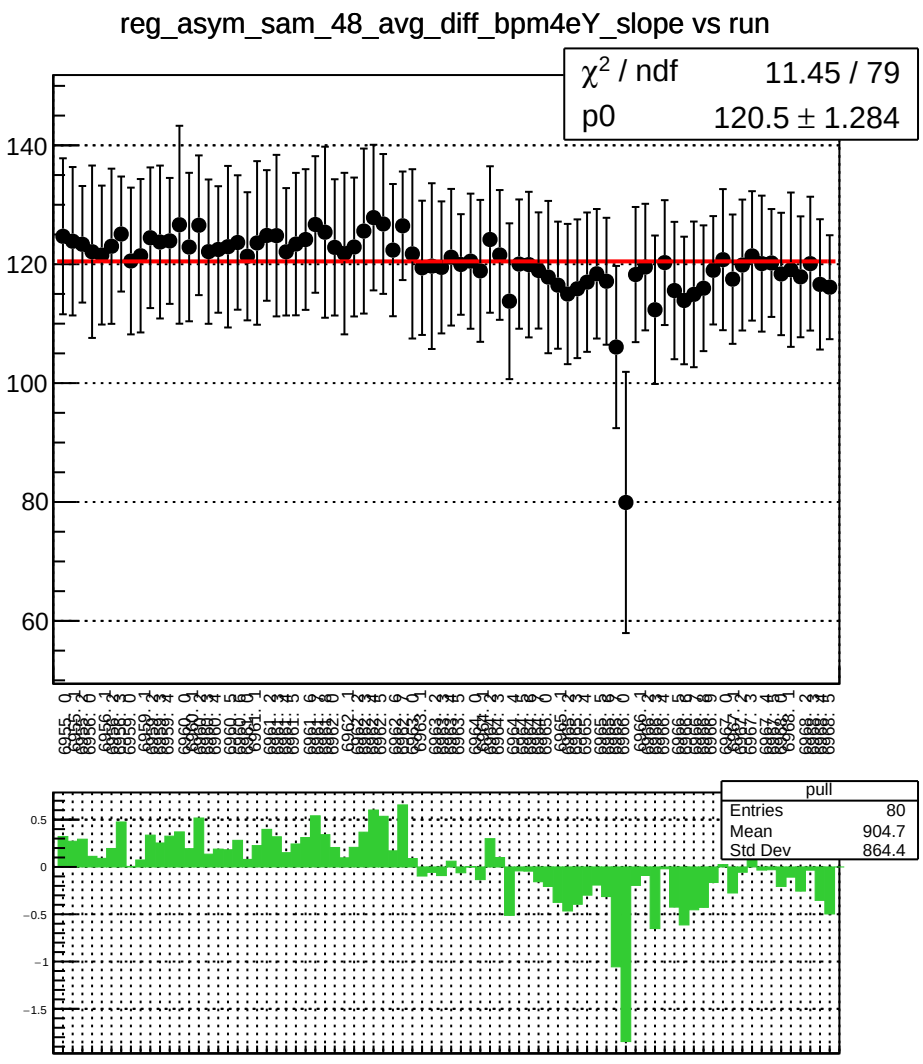

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 4.022 / 79
p0 −23.08 ± 1.636
pull
Entries 80
Mean −174.8
Std Dev 234.1

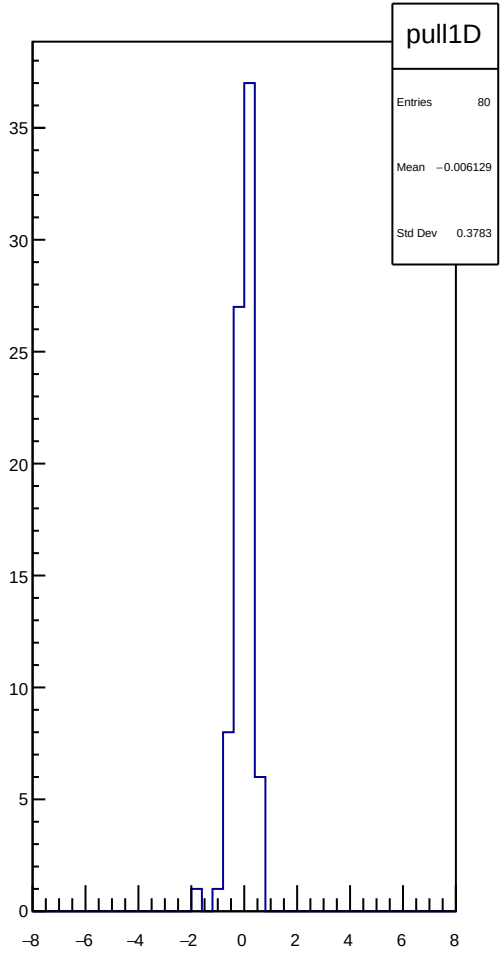

pull1D
Entries 80
Mean −0.004158
Std Dev 0.2242

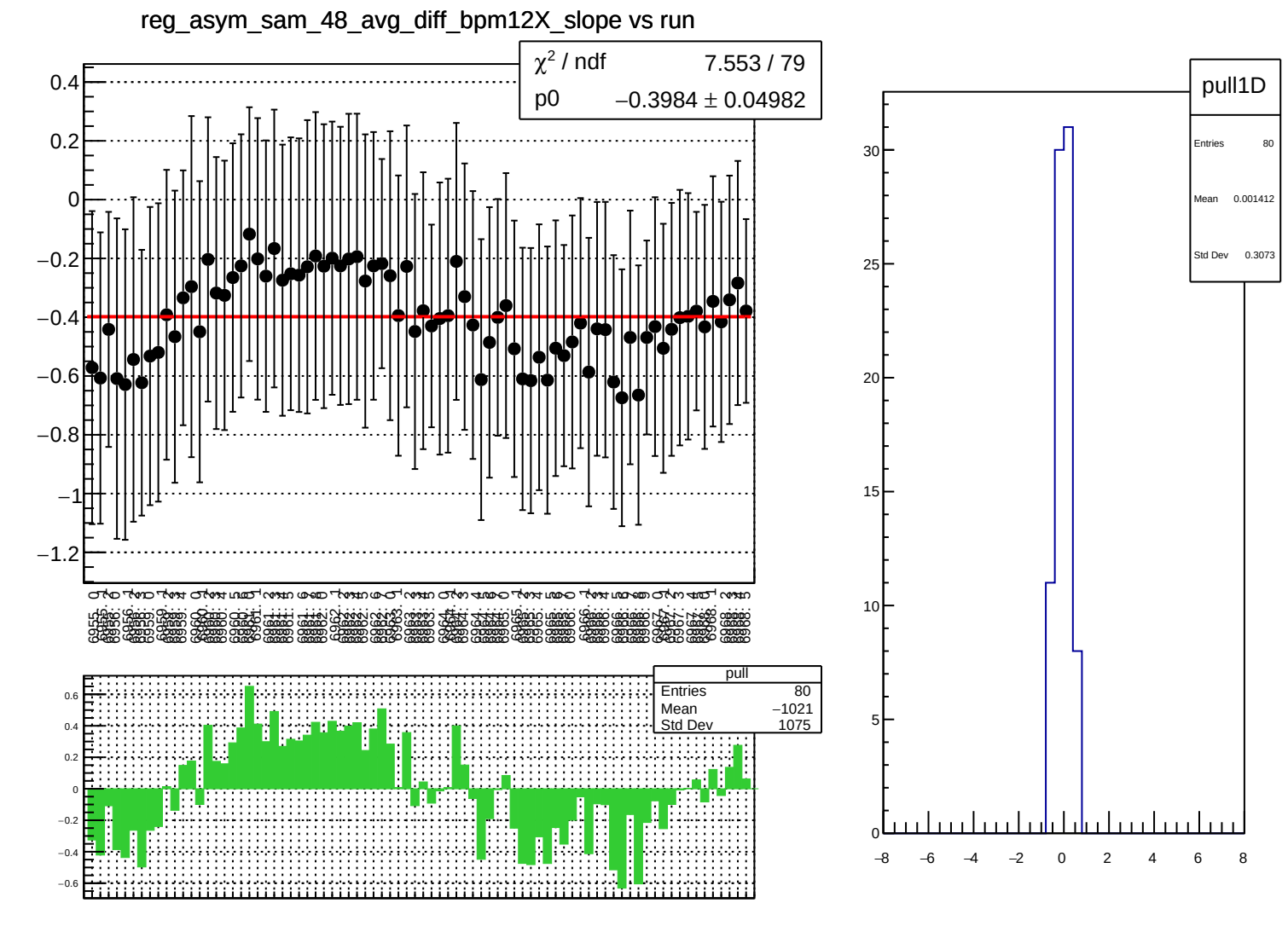

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.486 / 79
p0 −7.171 ± 1.127
pull
Entries 80
Mean 243.2
Std Dev 202.1
pull1D
Entries 80
Mean 0.01867
Std Dev 0.3438

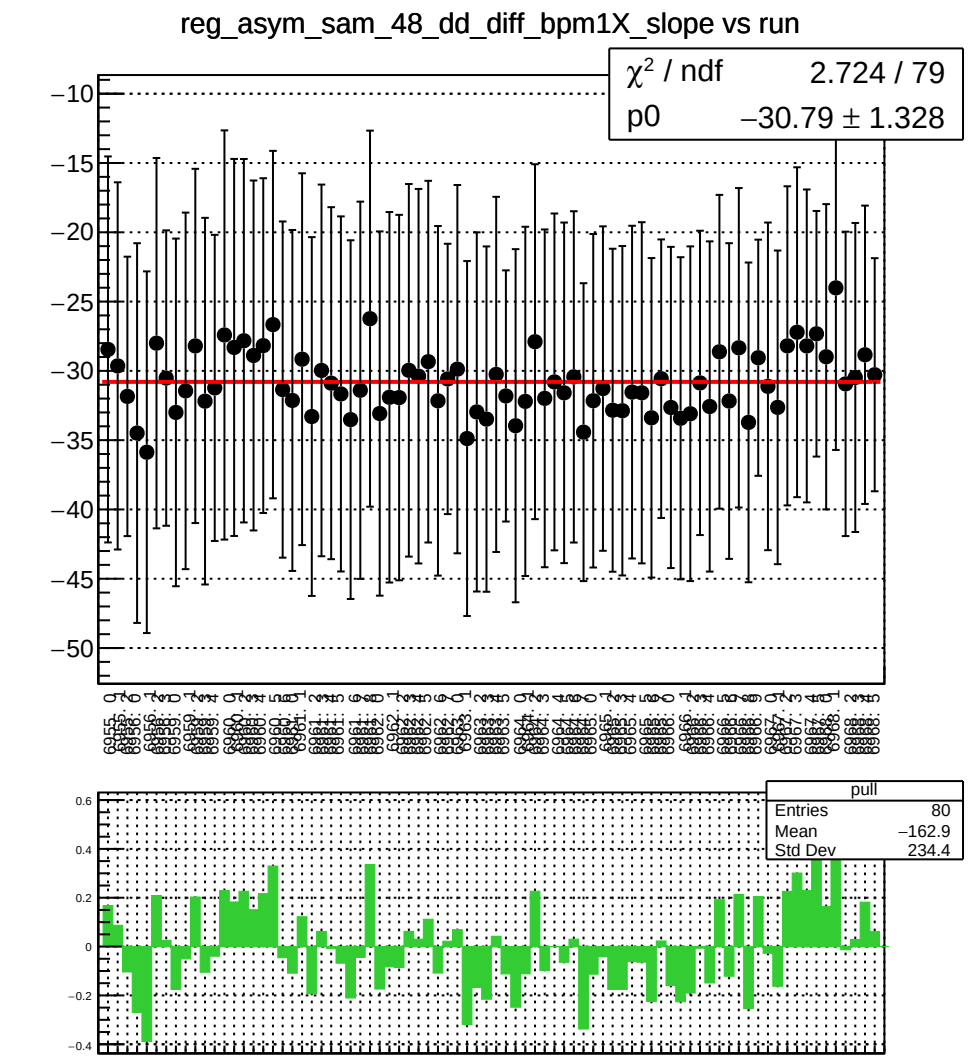

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.898 / 79
p0 −86 ± 1.514
pull
Entries 80
Mean −224.8
Std Dev 286.4

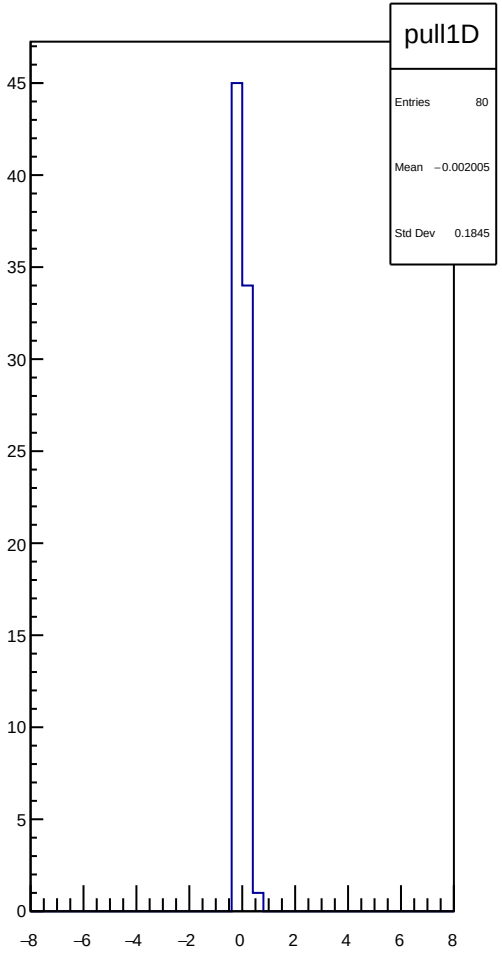

pull1D
Entries 80
Mean 0.00273
Std Dev 0.2474

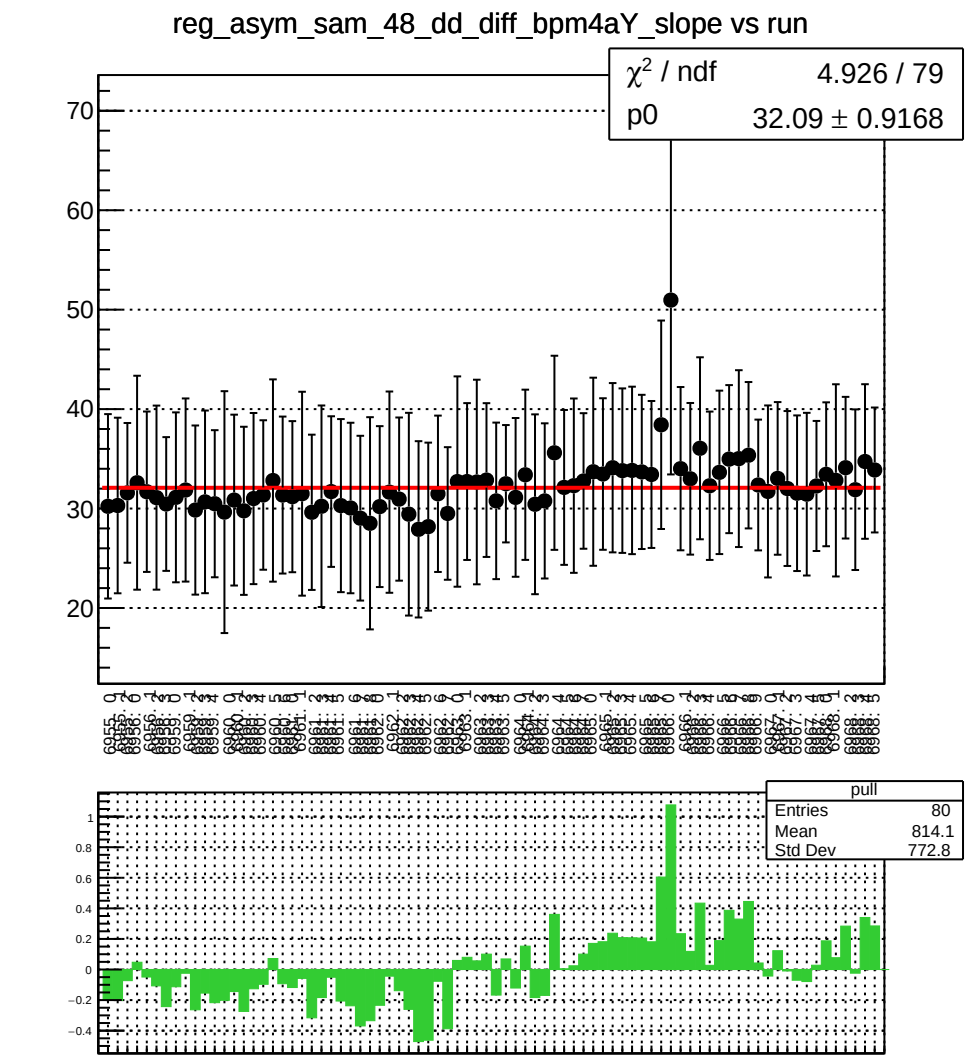

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.45 / 79
p0 120.5 ± 1.284
140
120
100
80
60
pull
Entries 80
Mean 904.7
Std Dev 864.4
0.5
0
−0.5
−1
−1.5

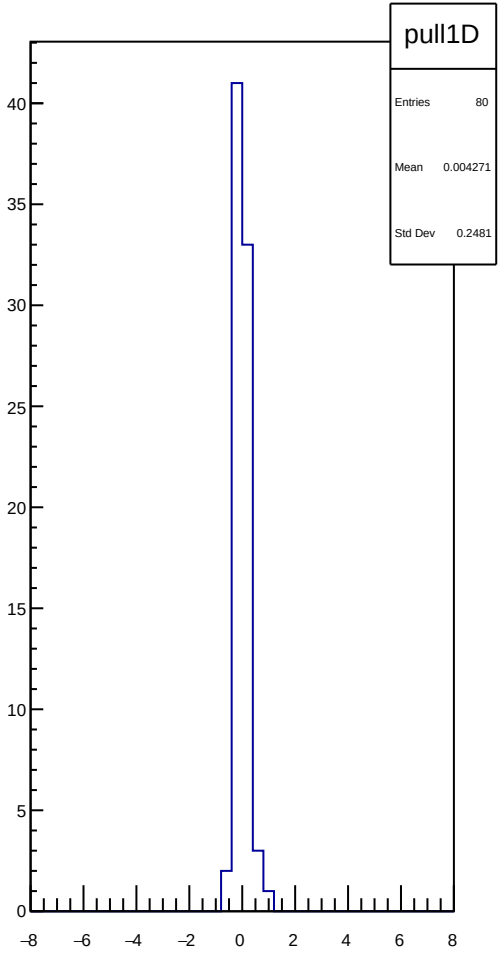

pull1D
Entries 80
Mean −0.006129
Std Dev 0.3783
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

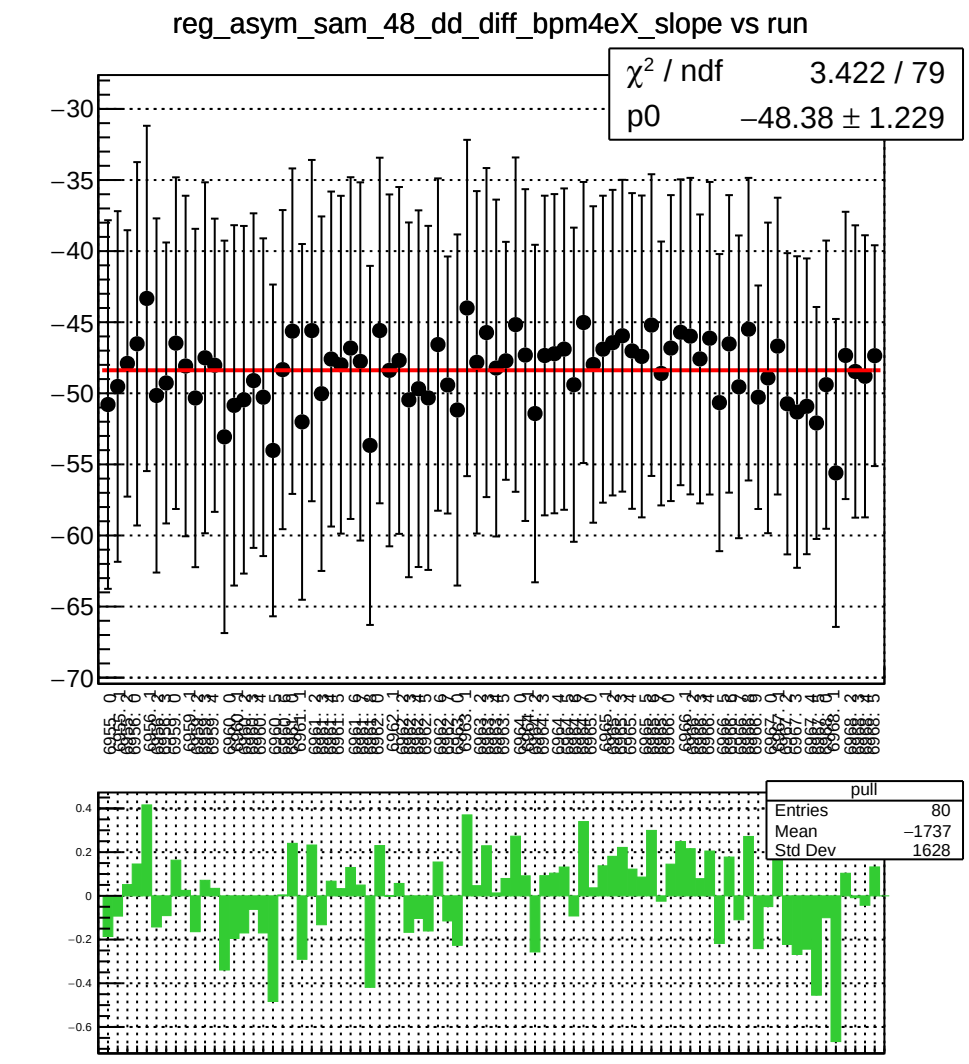

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 7.553 / 79
p0 −0.3984 ± 0.04982
pull
Entries 80
Mean −1021
Std Dev 1075
pull1D
Entries 80
Mean 0.001412
Std Dev 0.3073

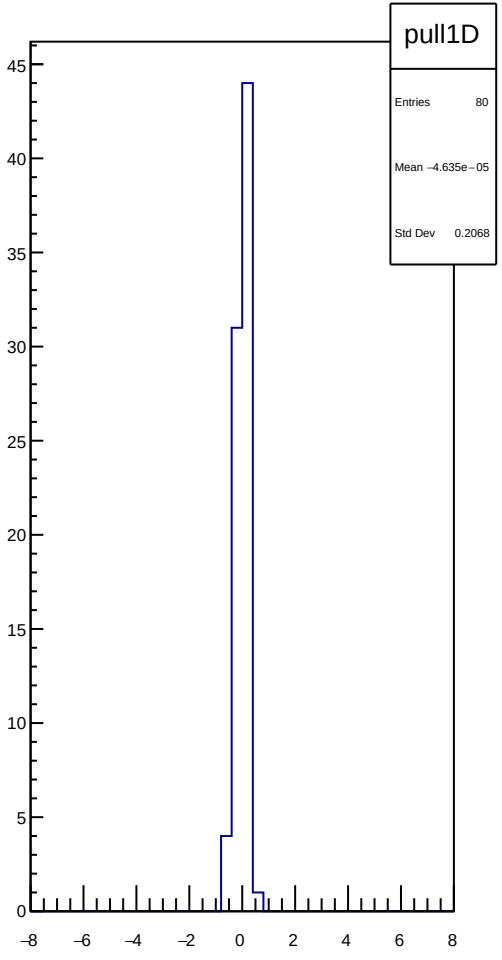

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.724 / 79
p0 −30.79 ± 1.328
pull
Entries 80
Mean −162.9
Std Dev 234.4

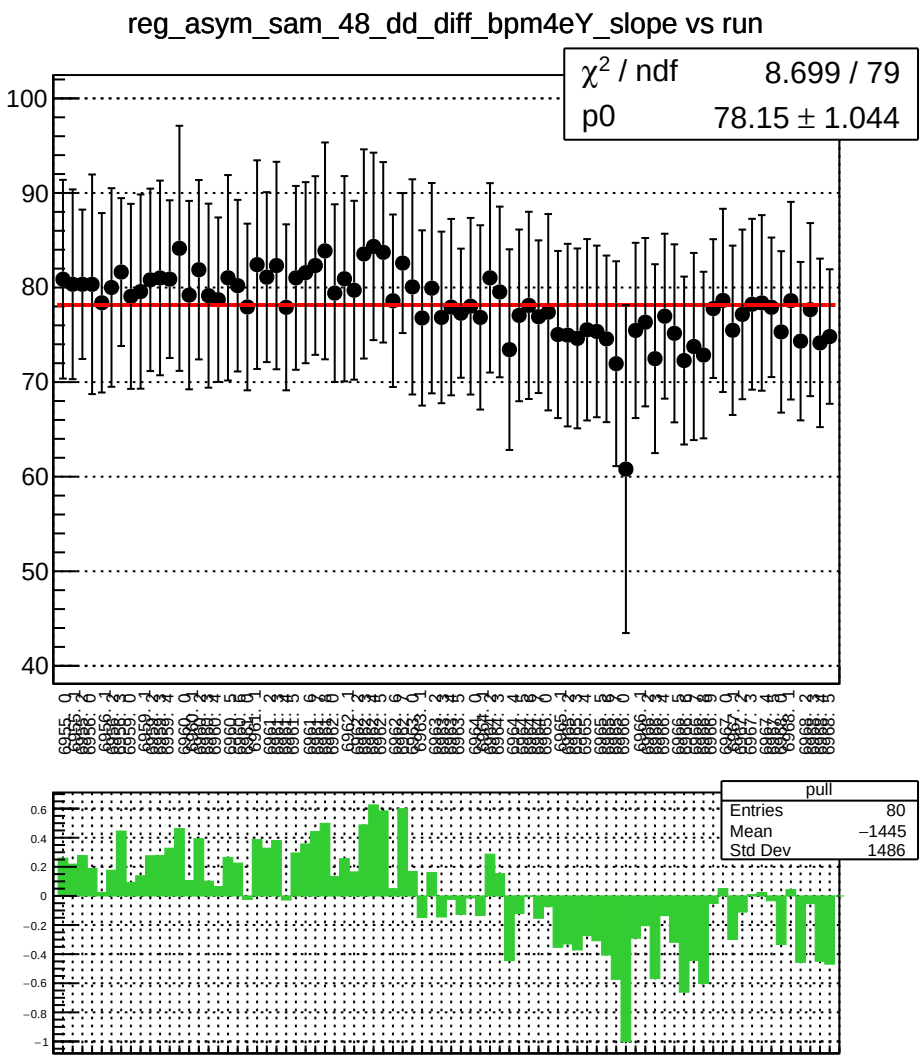

pull1D
Entries 80
Mean −0.002005
Std Dev 0.1845

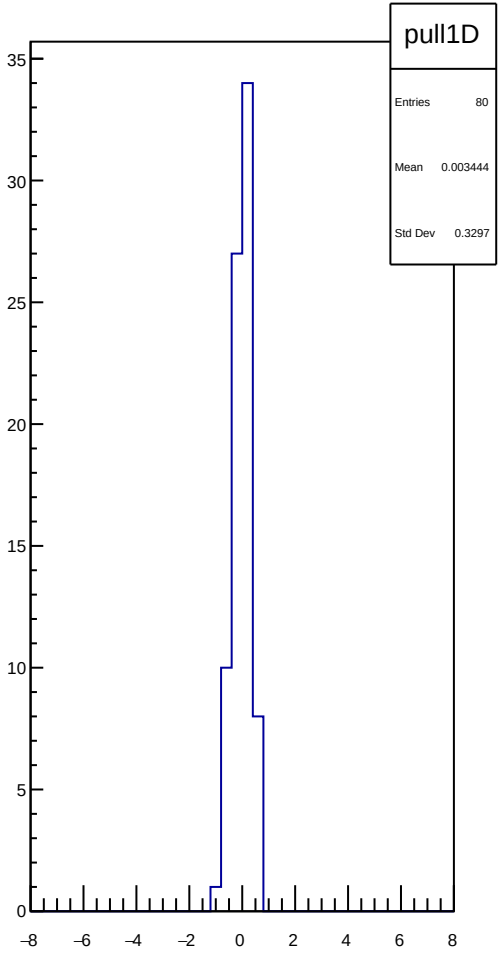

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.926 / 79
p0 32.09 ± 0.9168
pull
Entries 80
Mean 814.1
Std Dev 772.8

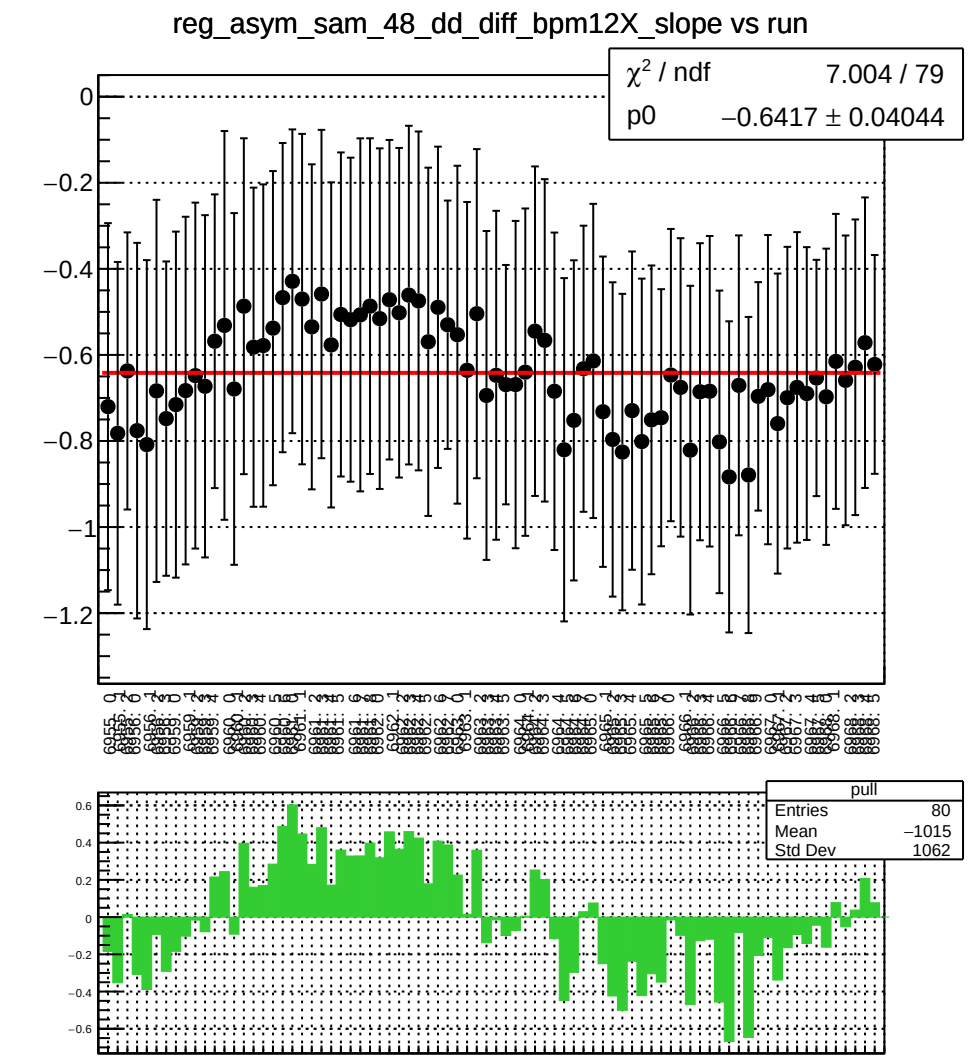

pull1D
Entries 80
Mean 0.004271
Std Dev 0.2481

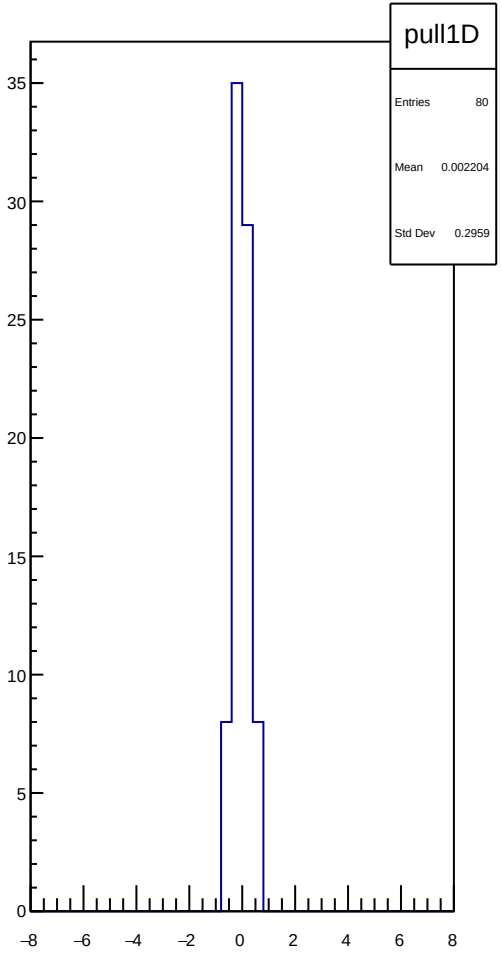

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.422 / 79
p0 −48.38 ± 1.229
pull
Entries 80
Mean −1737
Std Dev 1628

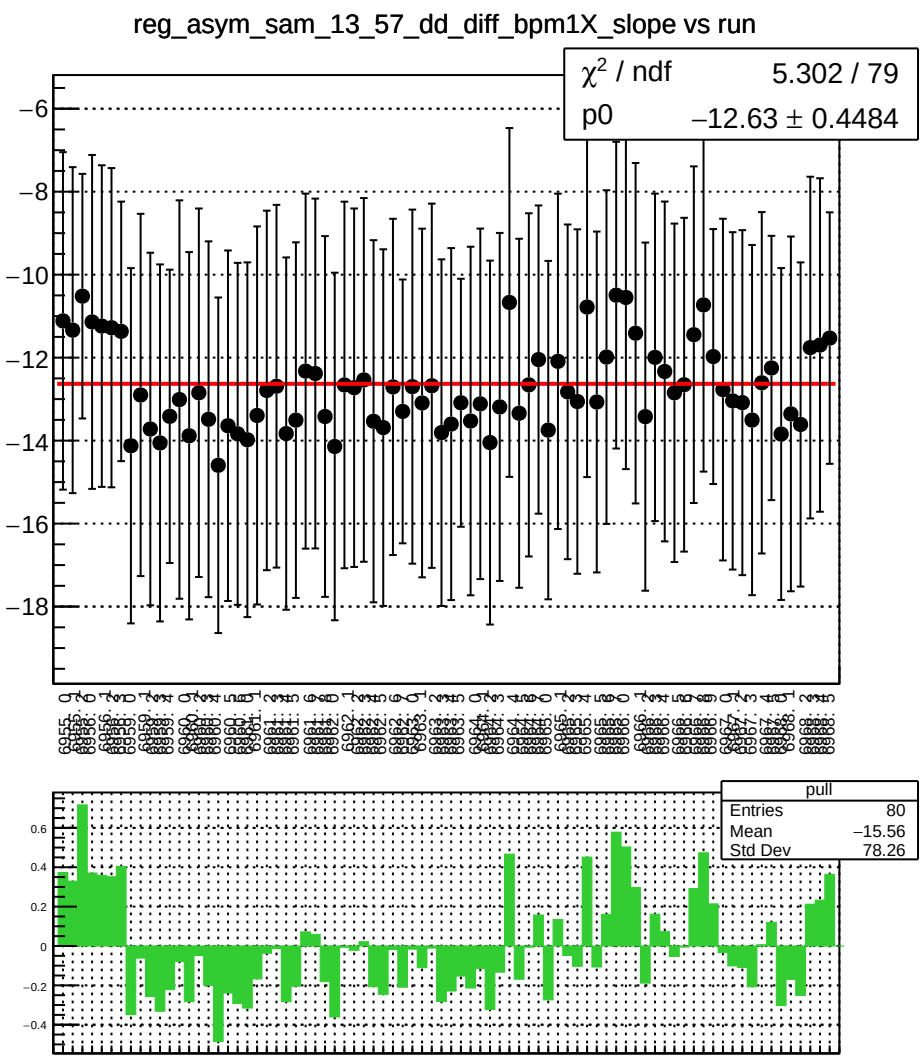

pull1D
Entries 80
Mean −4.635e−05
Std Dev 0.2068

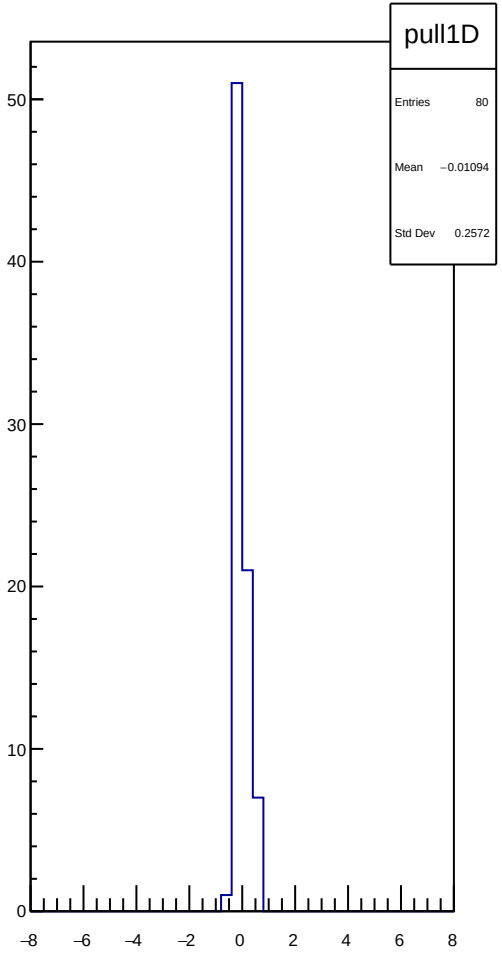

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.699 / 79
p0 78.15 ± 1.044
pull
Entries 80
Mean −1445
Std Dev 1486

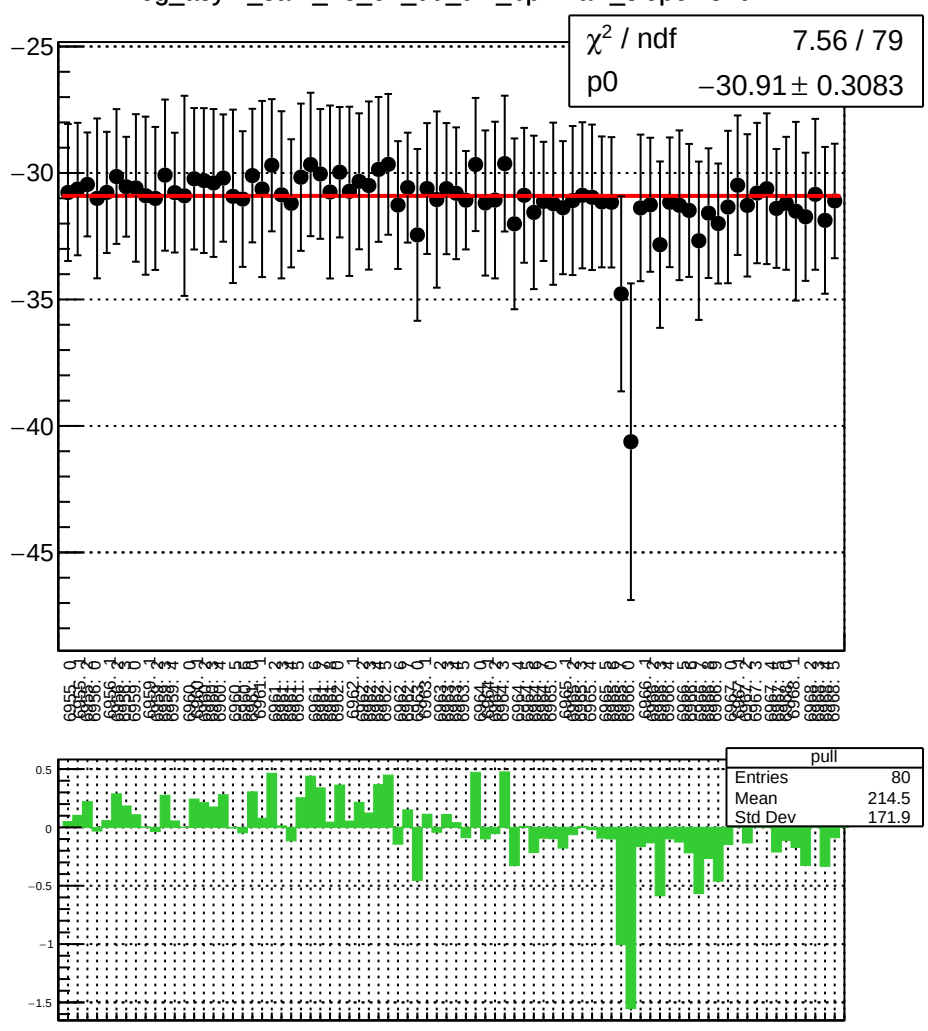

pull1D
Entries 80
Mean 0.003444
Std Dev 0.3297

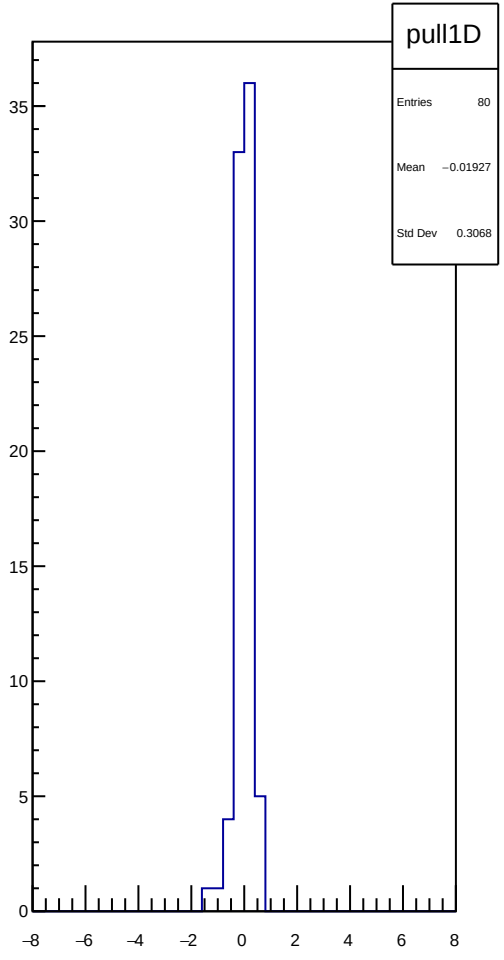

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 7.004 / 79
p0 −0.6417 ± 0.04044
pull
Entries 80
Mean −1015
Std Dev 1062

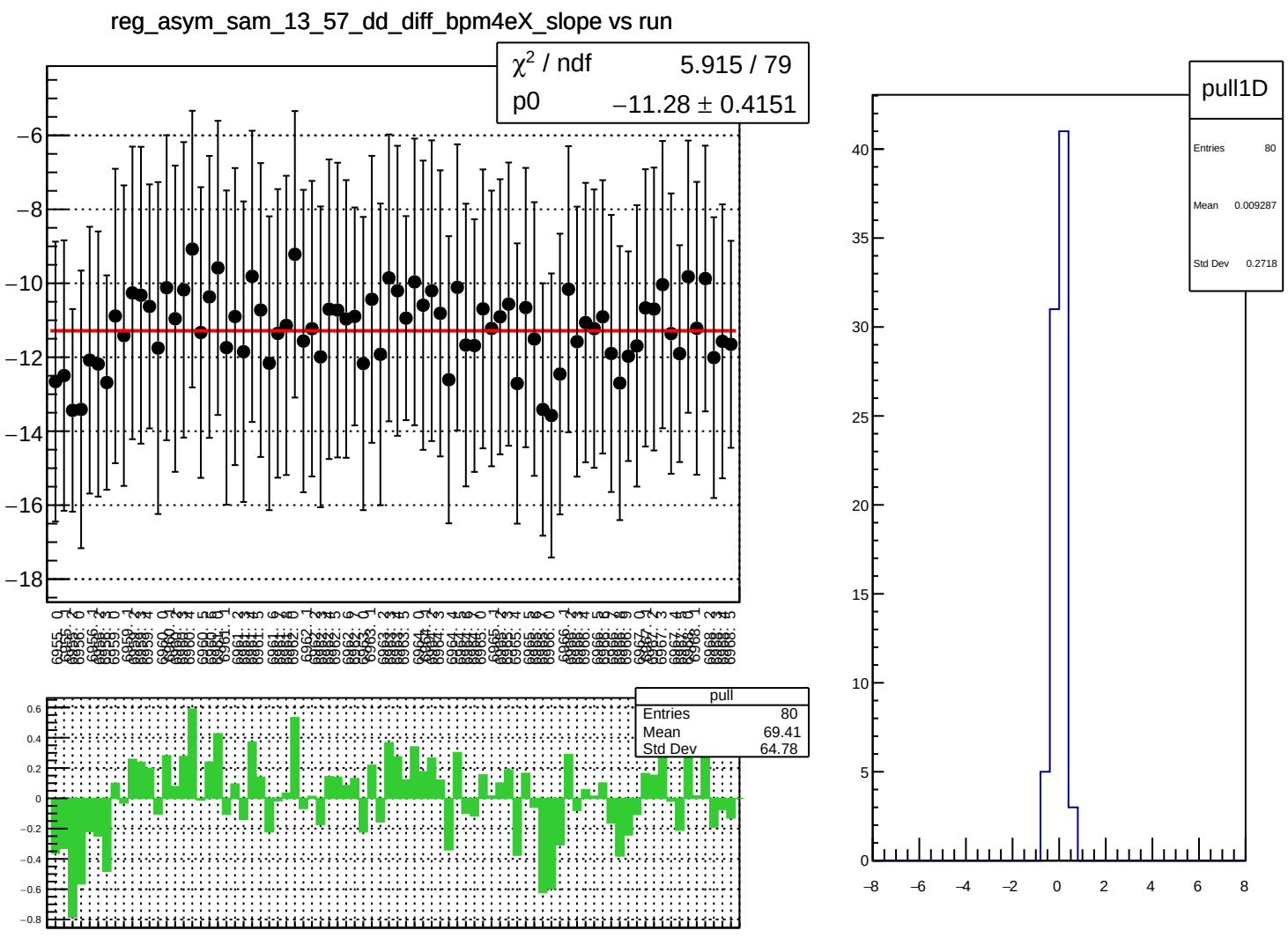

pull1D
Entries 80
Mean 0.002204
Std Dev 0.2959

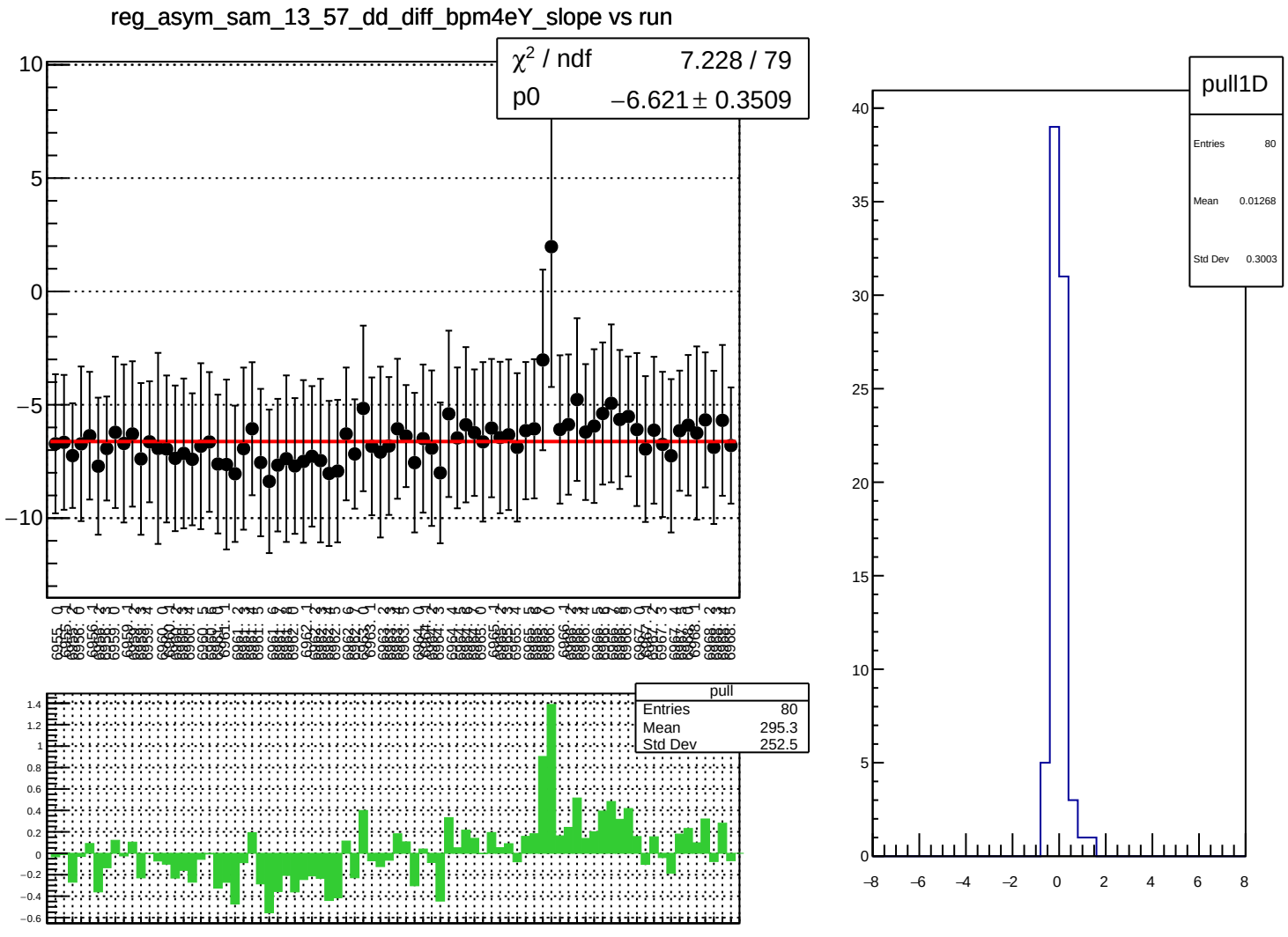

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 5.302 / 79
p0 −12.63 ± 0.4484
pull
Entries 80
Mean −15.56
Std Dev 78.26

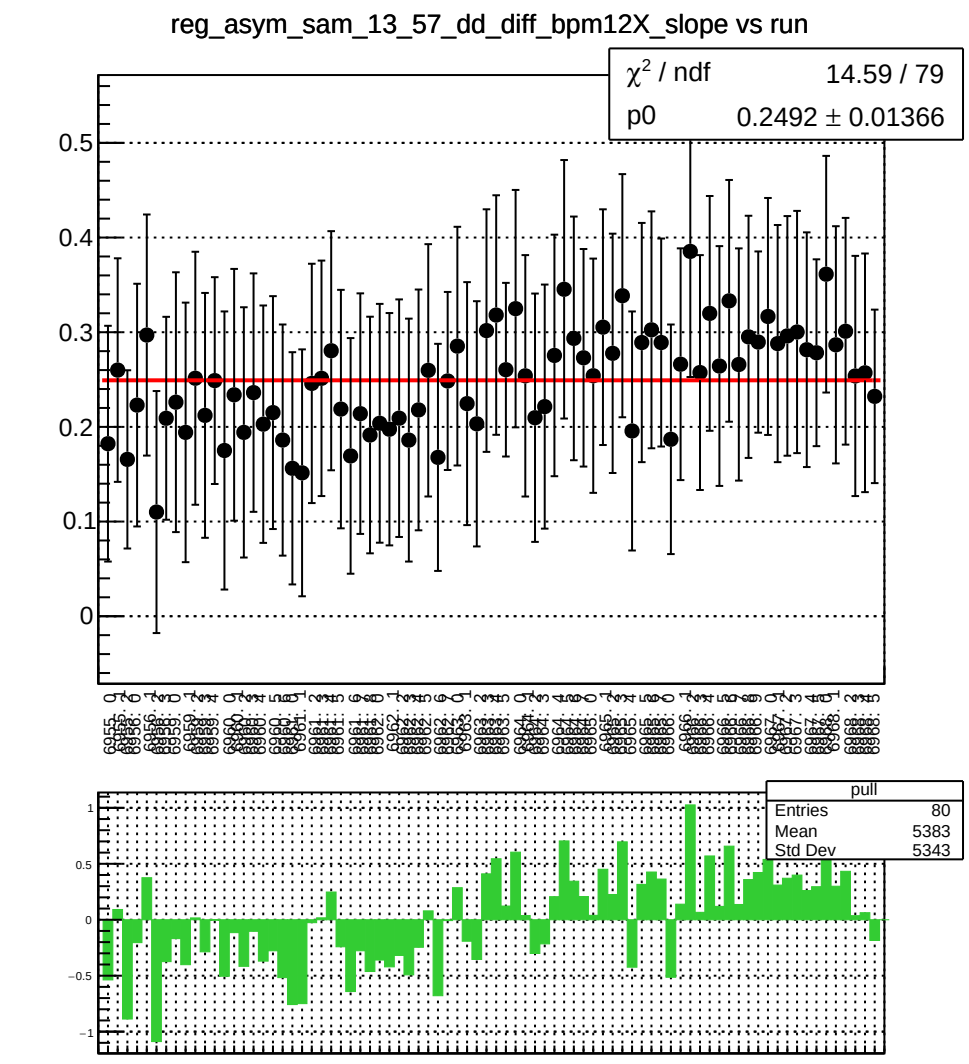

pull1D
Entries 80
Mean −0.01094
Std Dev 0.2572

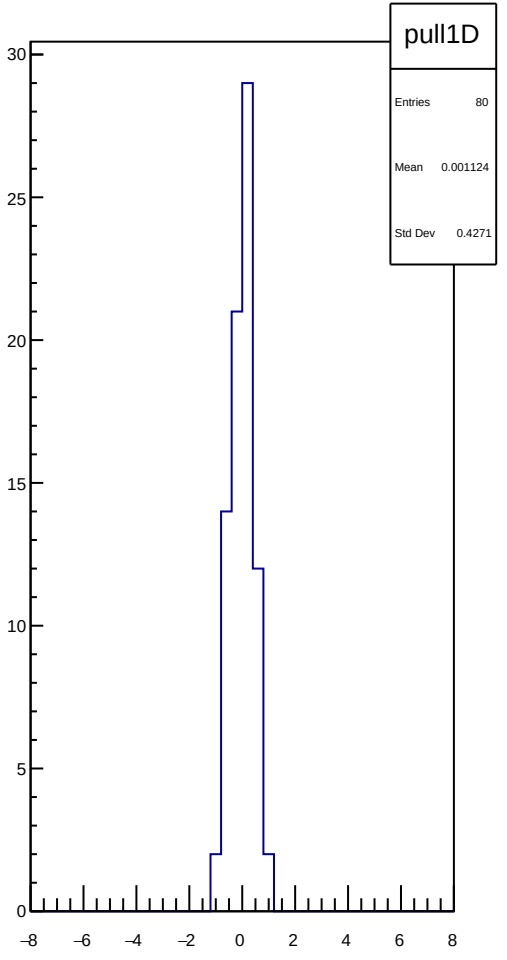

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.56 / 79
p0 −30.91 ± 0.3083
pull
Entries 80
Mean 214.5
Std Dev 171.9

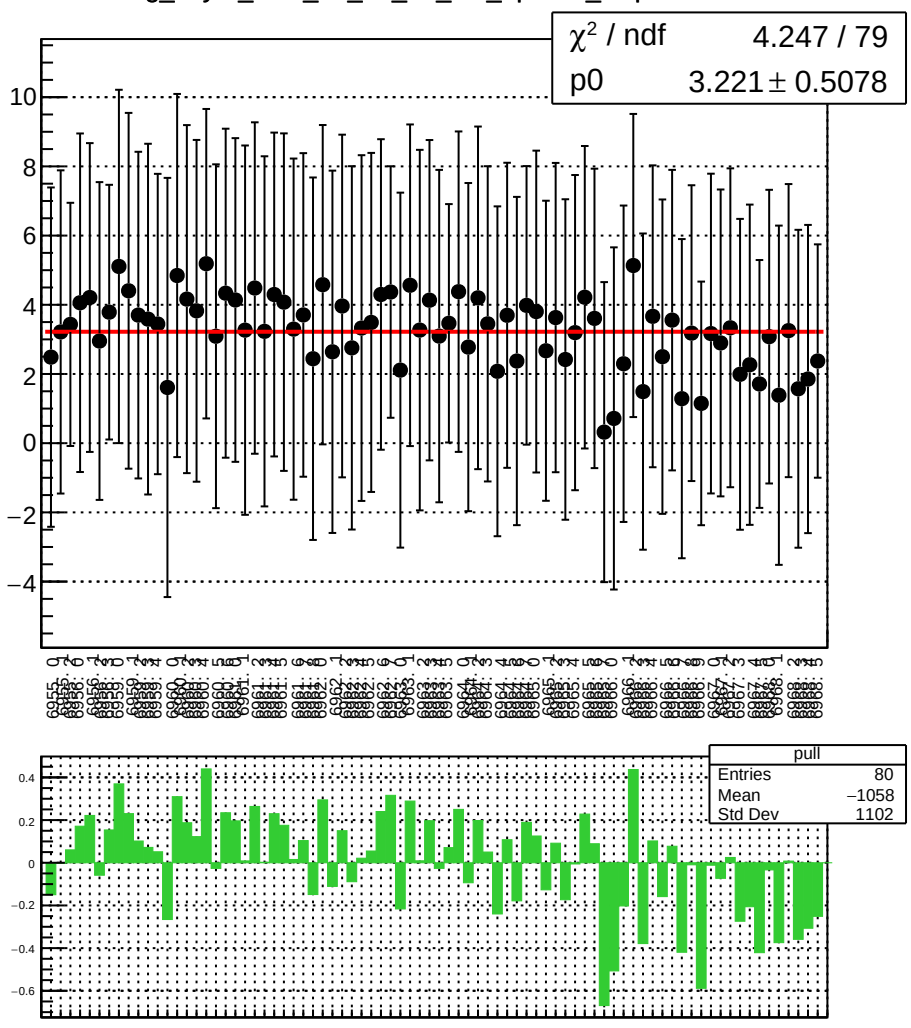

pull1D
Entries 80
Mean −0.01927
Std Dev 0.3068

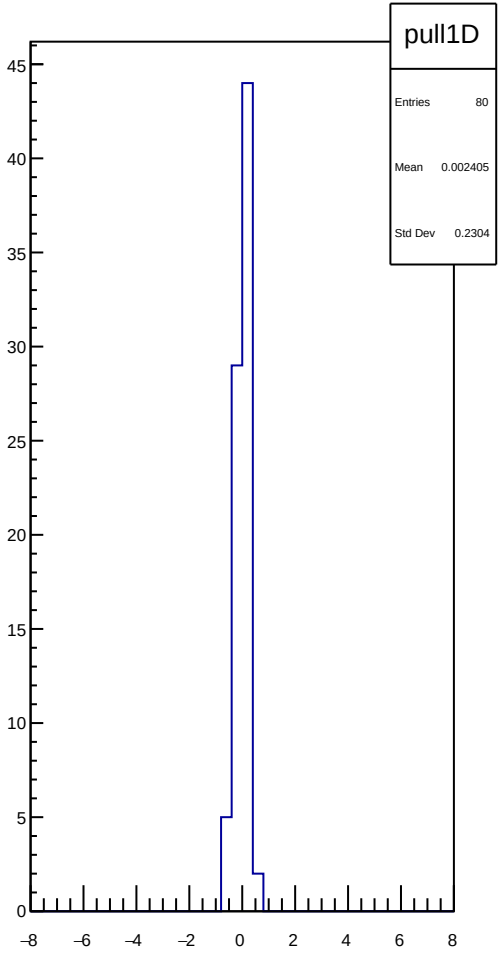

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.915 / 79
p0 −11.28 ± 0.4151
pull
Entries 80
Mean 69.41
Std Dev 64.78
pull1D
Entries 80
Mean 0.009287
Std Dev 0.2718

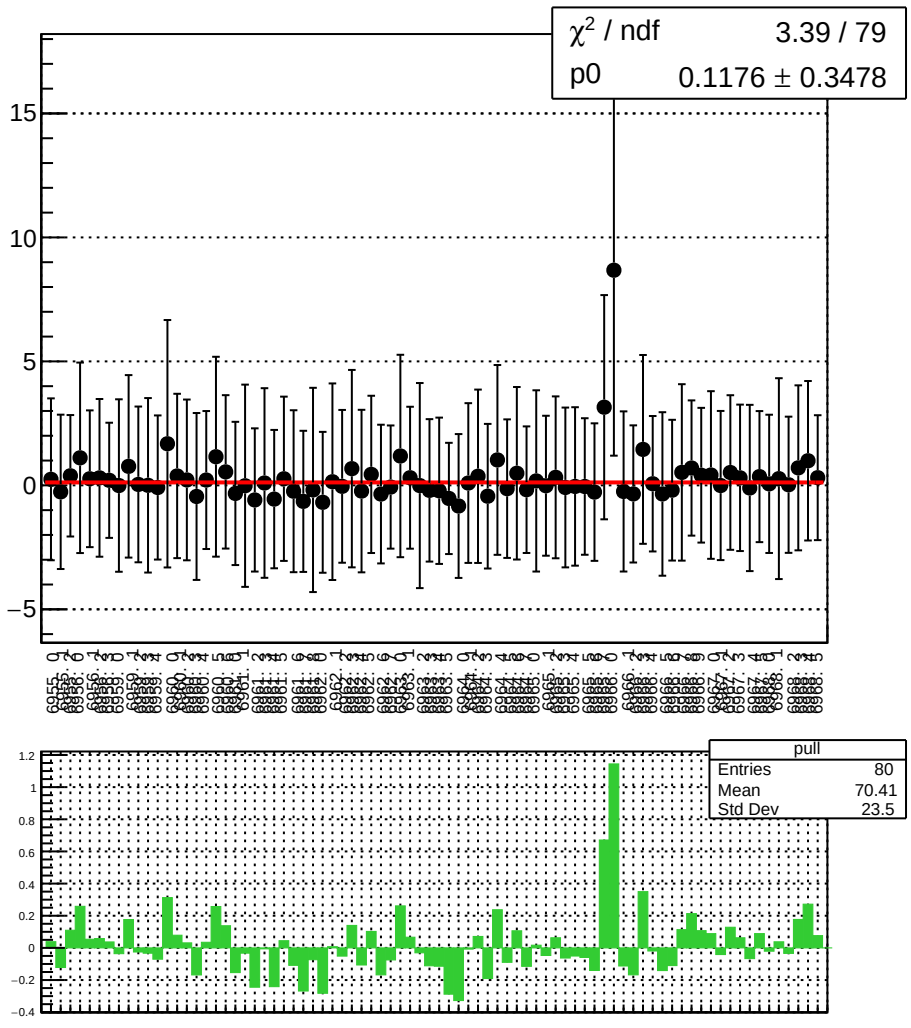

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.228 / 79
p0 −6.621 ± 0.3509
pull
Entries 80
Mean 295.3
Std Dev 252.5
pull1D
Entries 80
Mean 0.01268
Std Dev 0.3003

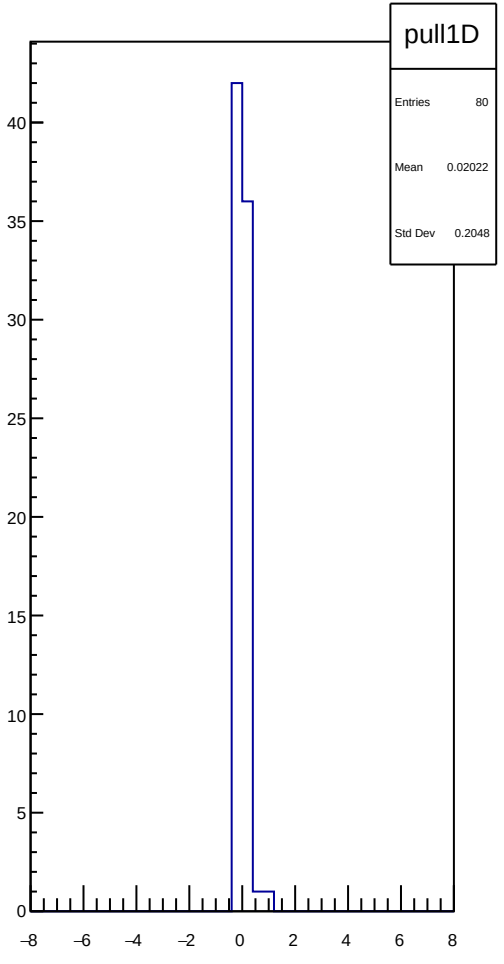

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 14.59 / 79
p0 0.2492 ± 0.01366
pull
Entries 80
Mean 5383
Std Dev 5343

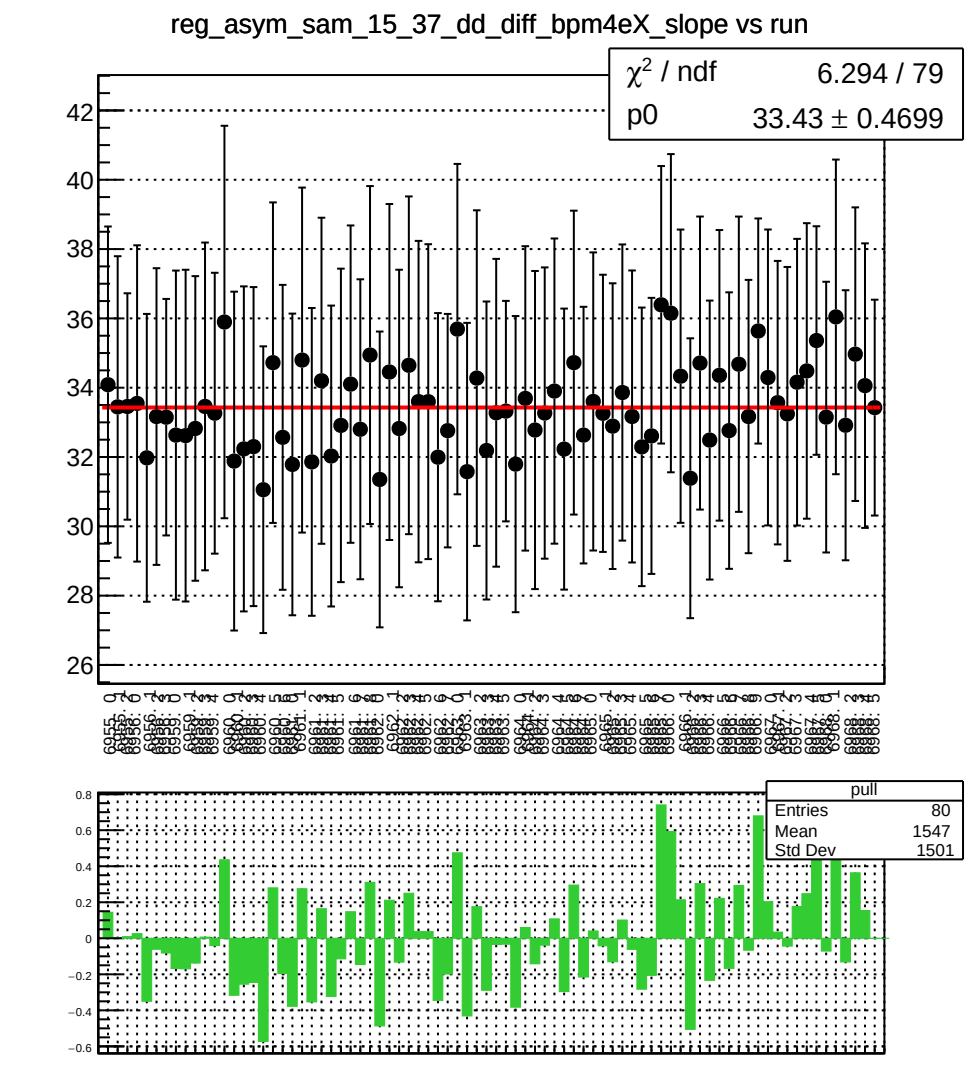

pull1D
Entries 80
Mean 0.001124
Std Dev 0.4271

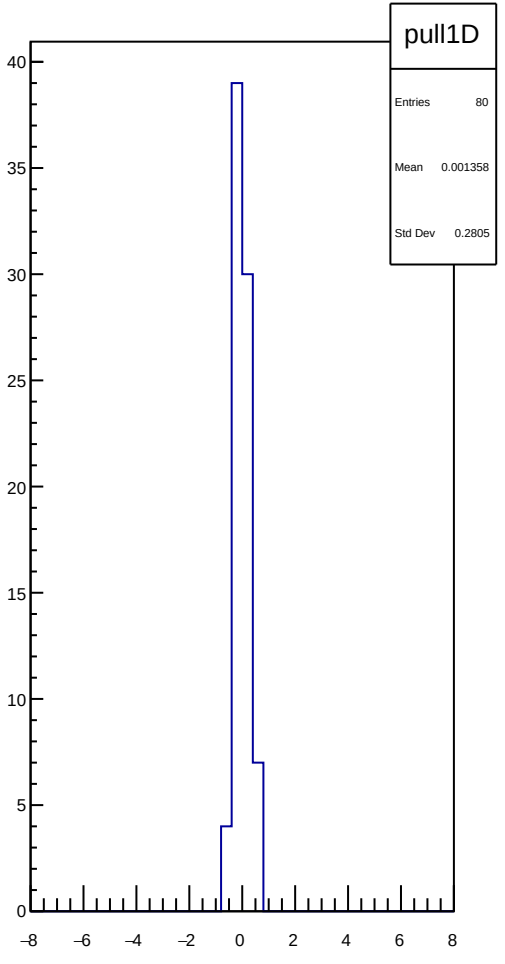

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 4.247 / 79
p0 3.221 ± 0.5078
pull
Entries 80
Mean −1058
Std Dev 1102

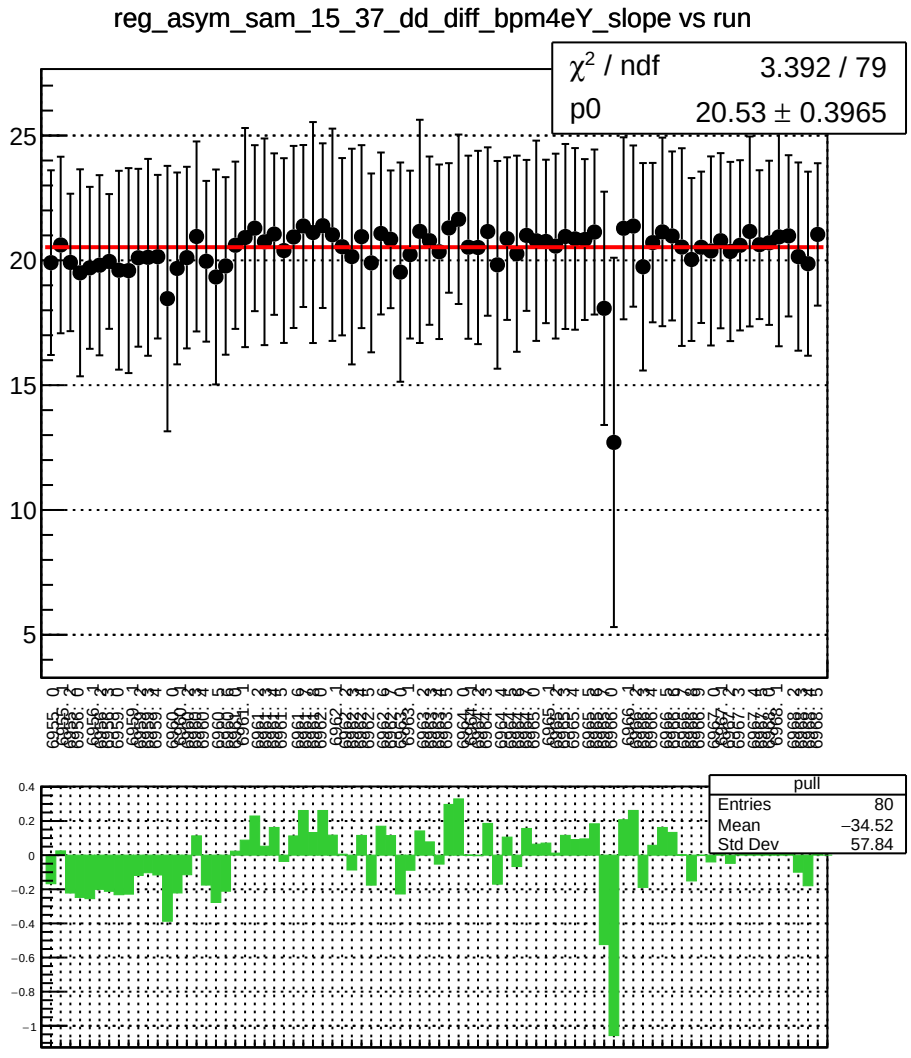

pull1D
Entries 80
Mean 0.002405
Std Dev 0.2304

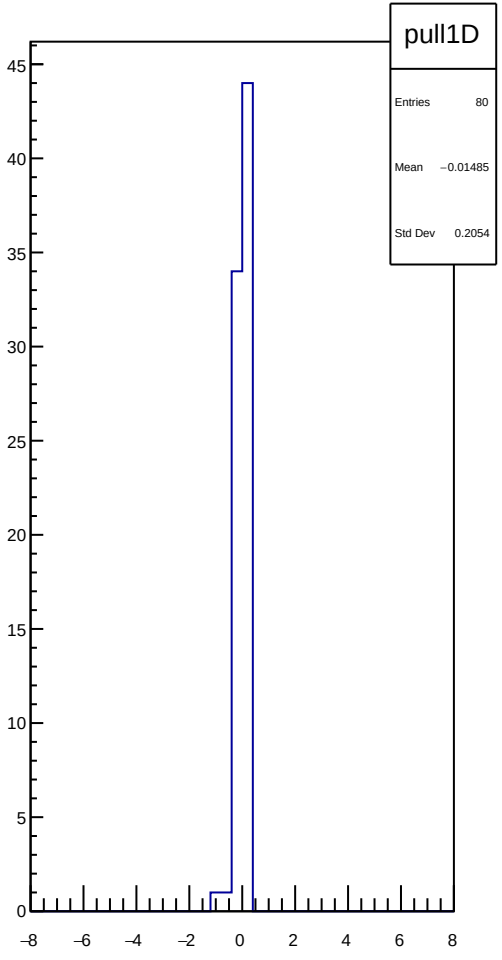

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.39 / 79
p0 0.1176 ± 0.3478
pull
Entries 80
Mean 70.41
Std Dev 23.5

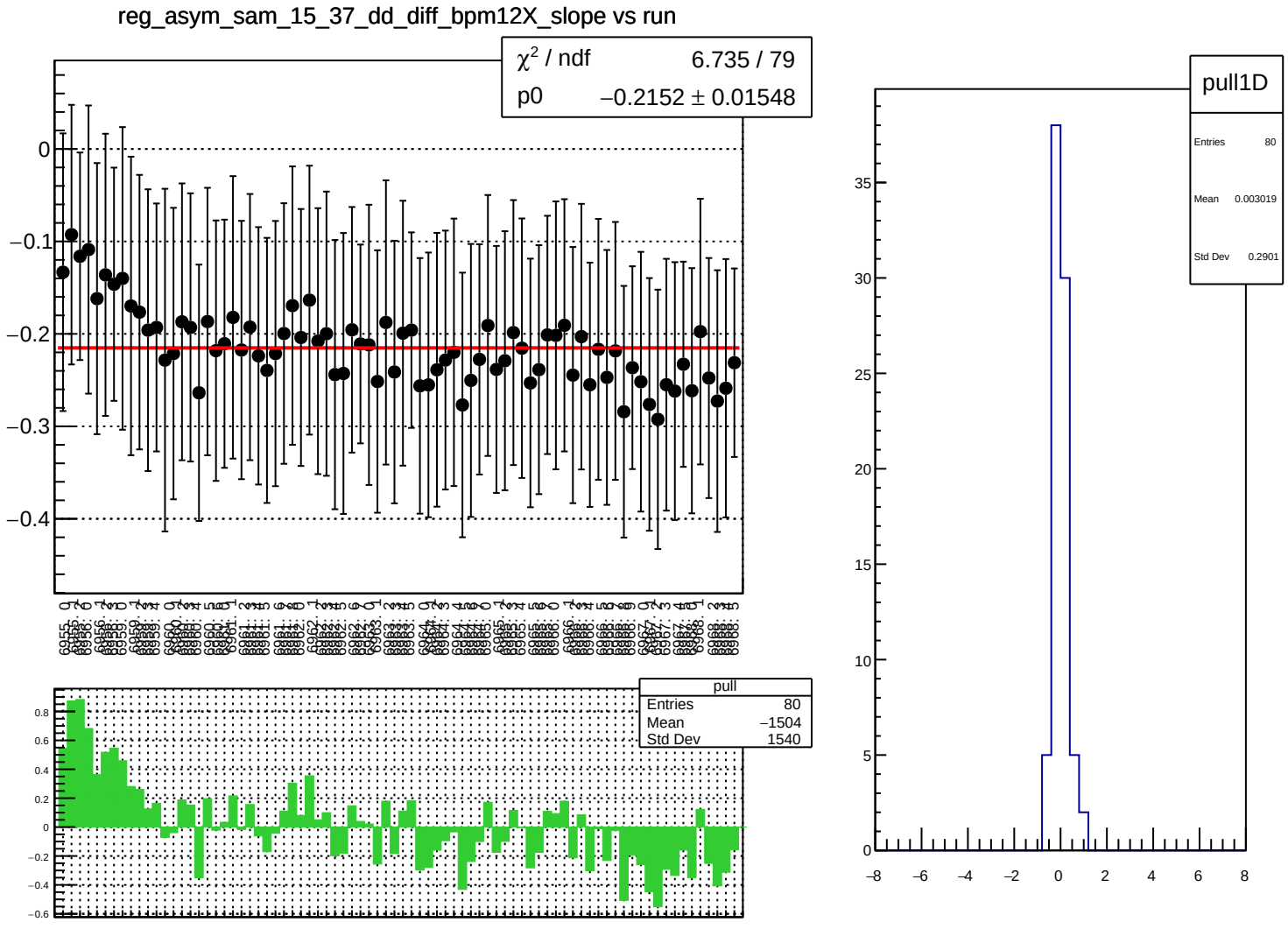

pull1D
Entries 80
Mean 0.02022
Std Dev 0.2048

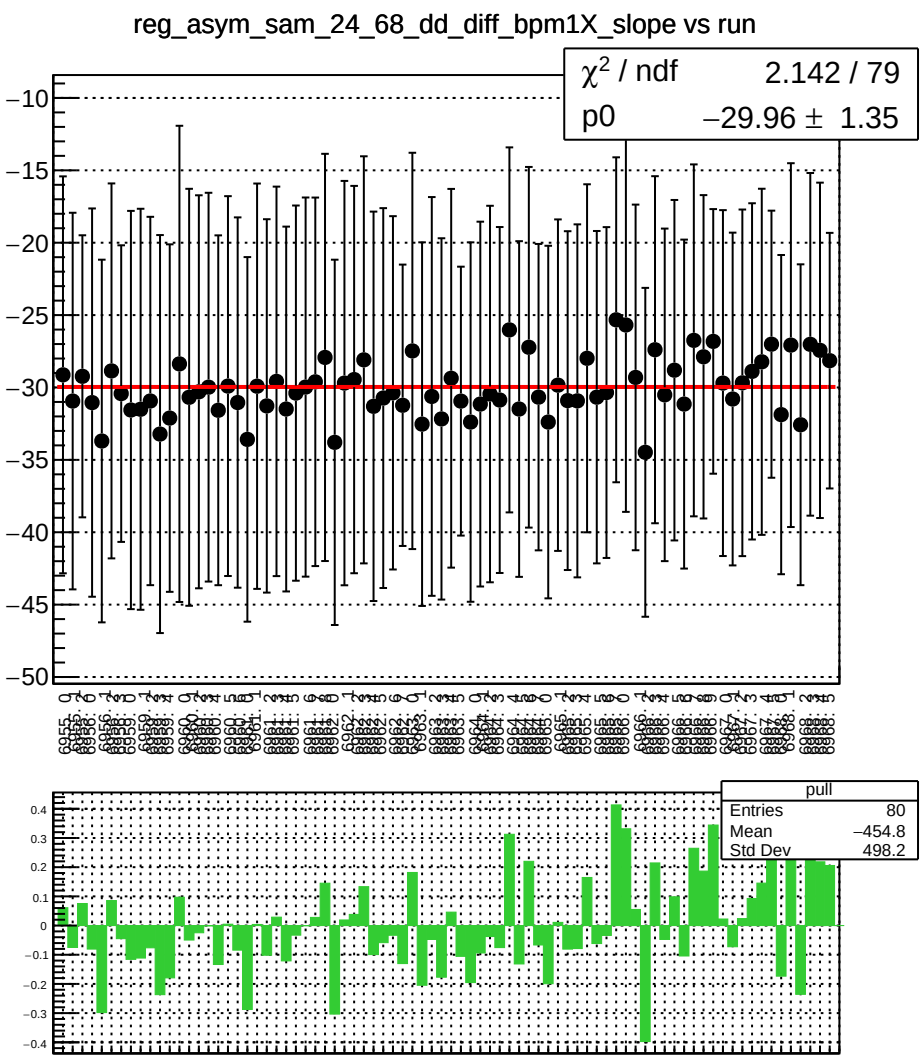

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.294 / 79
p0 33.43 ± 0.4699
pull
Entries 80
Mean 1547
Std Dev 1501

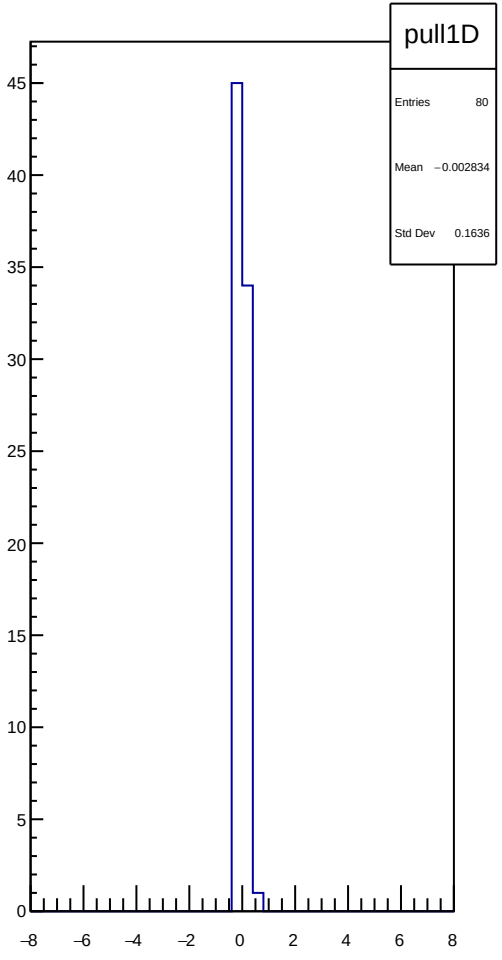

pull1D
Entries 80
Mean 0.001358
Std Dev 0.2805

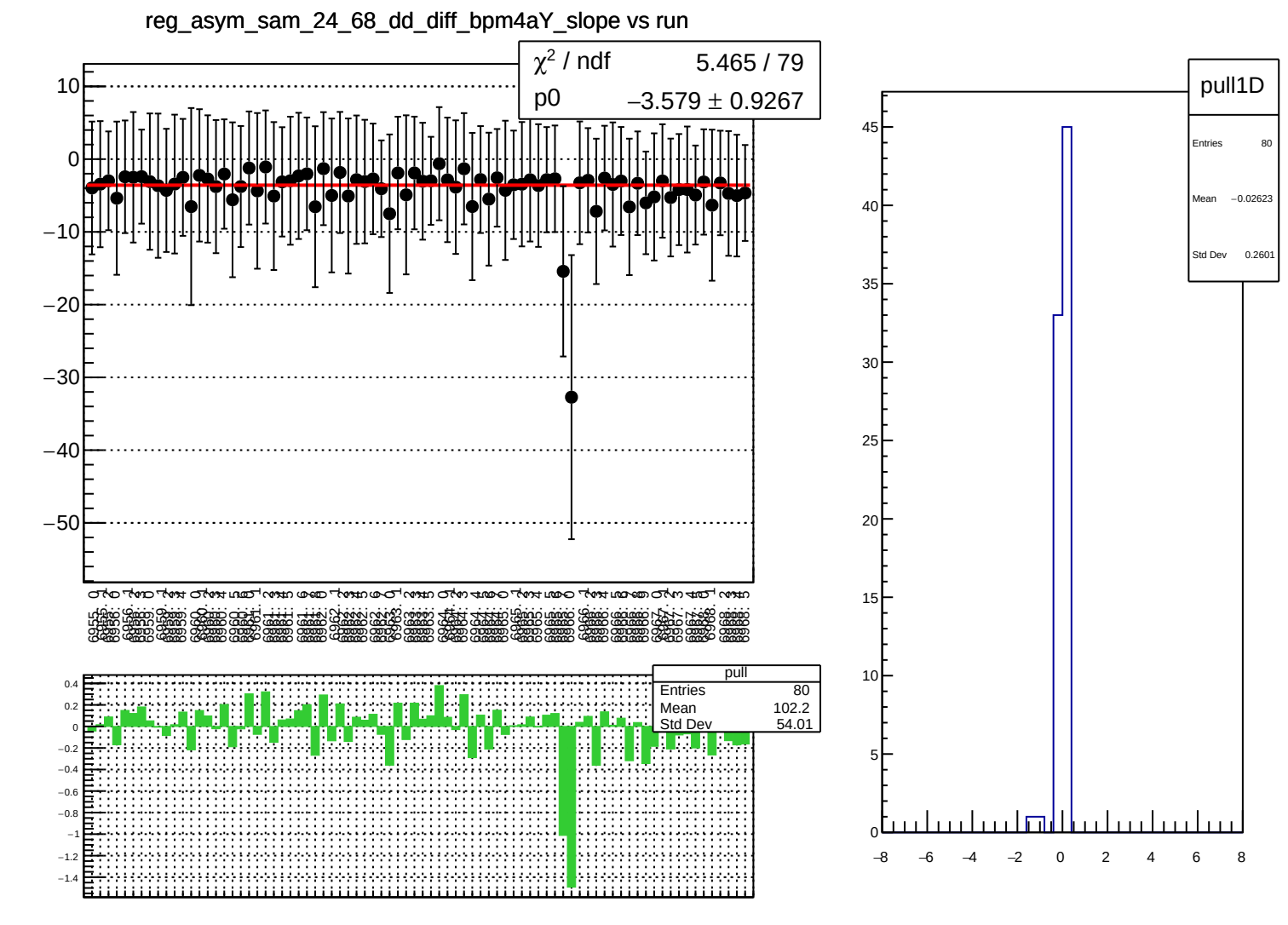

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.392 / 79
p0 20.53 ± 0.3965
pull
Entries 80
Mean −34.52
Std Dev 57.84

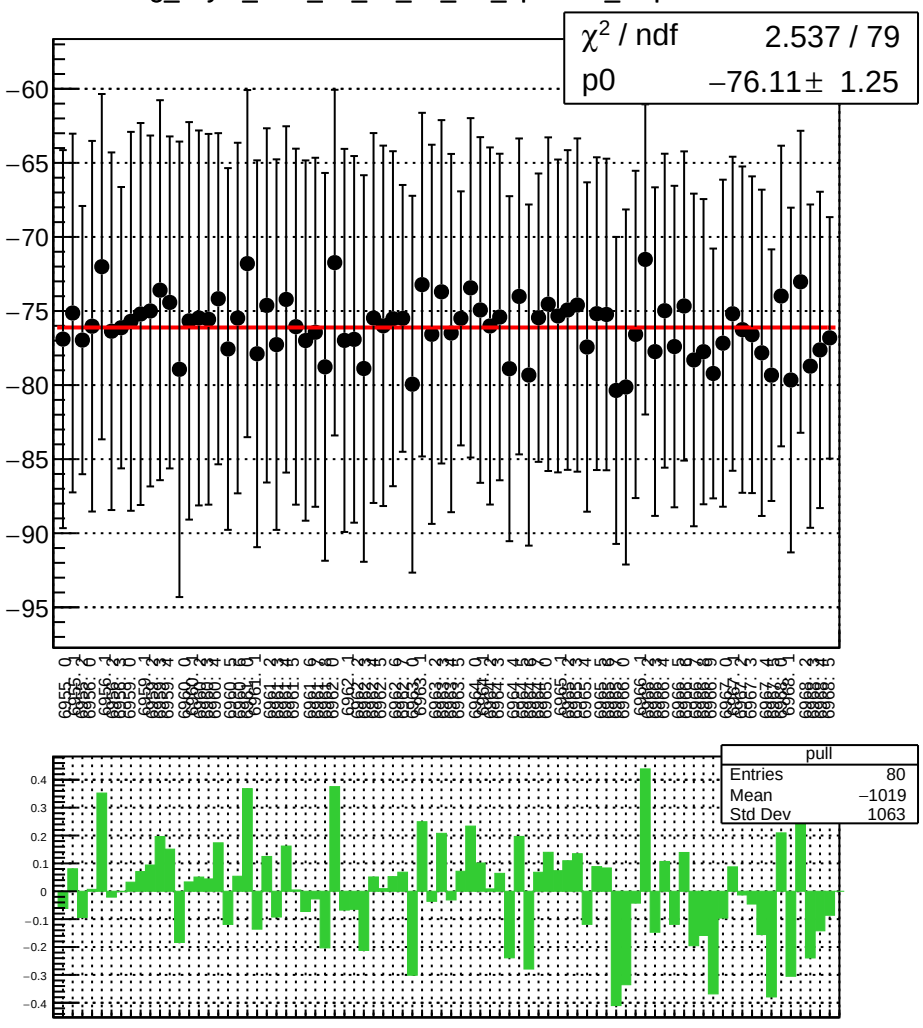

pull1D
Entries 80
Mean −0.01485
Std Dev 0.2054

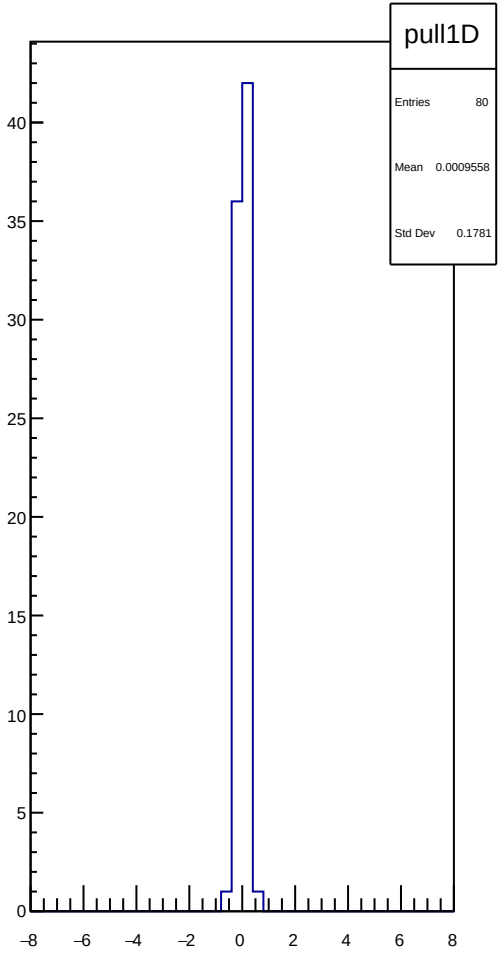

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 6.735 / 79
p0 −0.2152 ± 0.01548
pull
Entries 80
Mean −1504
Std Dev 1540
pull1D
Entries 80
Mean 0.003019
Std Dev 0.2901

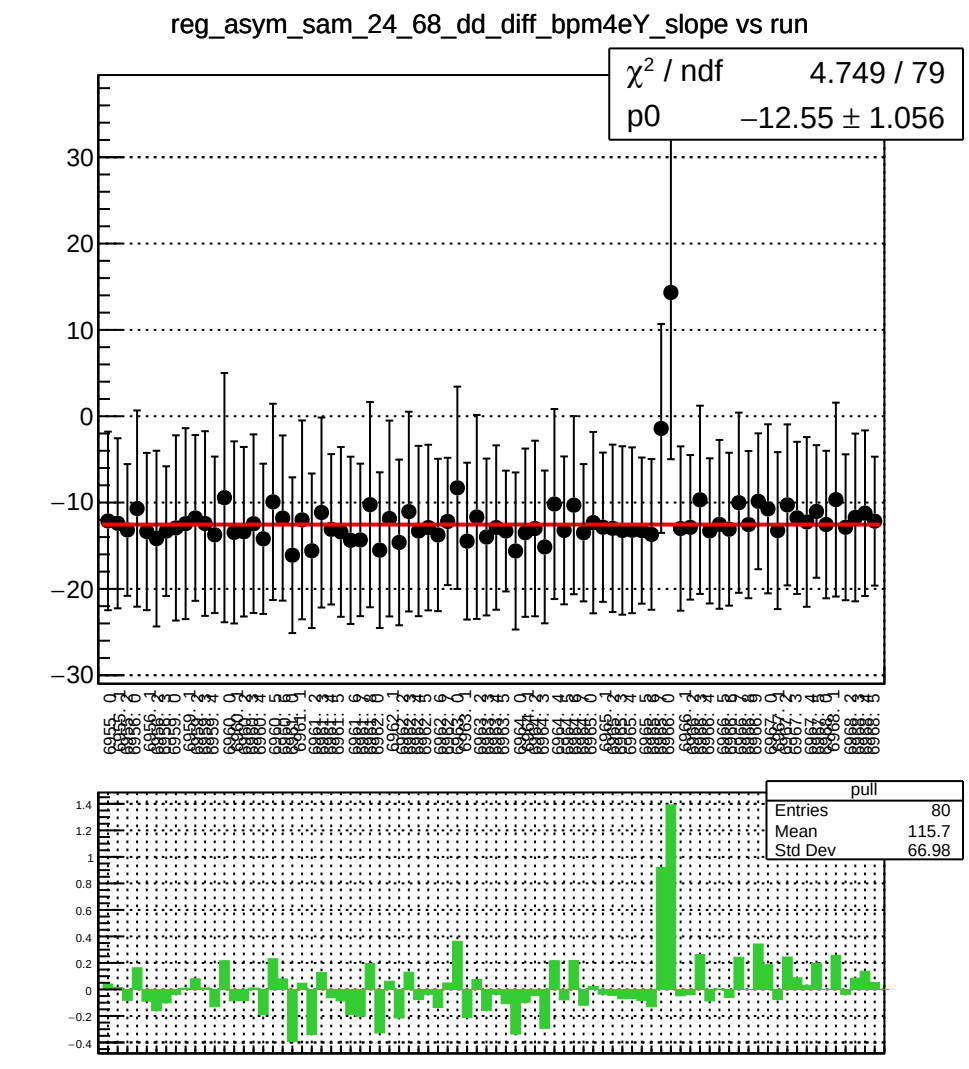

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 2.142 / 79
p0 −29.96 ± 1.35
pull
Entries 80
Mean −454.8
Std Dev 498.2

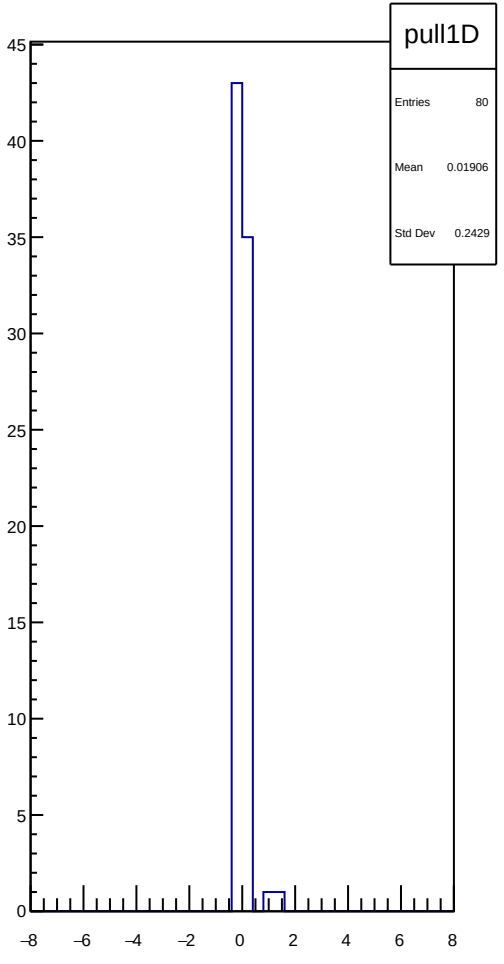

pull1D
Entries 80
Mean −0.002834
Std Dev 0.1636

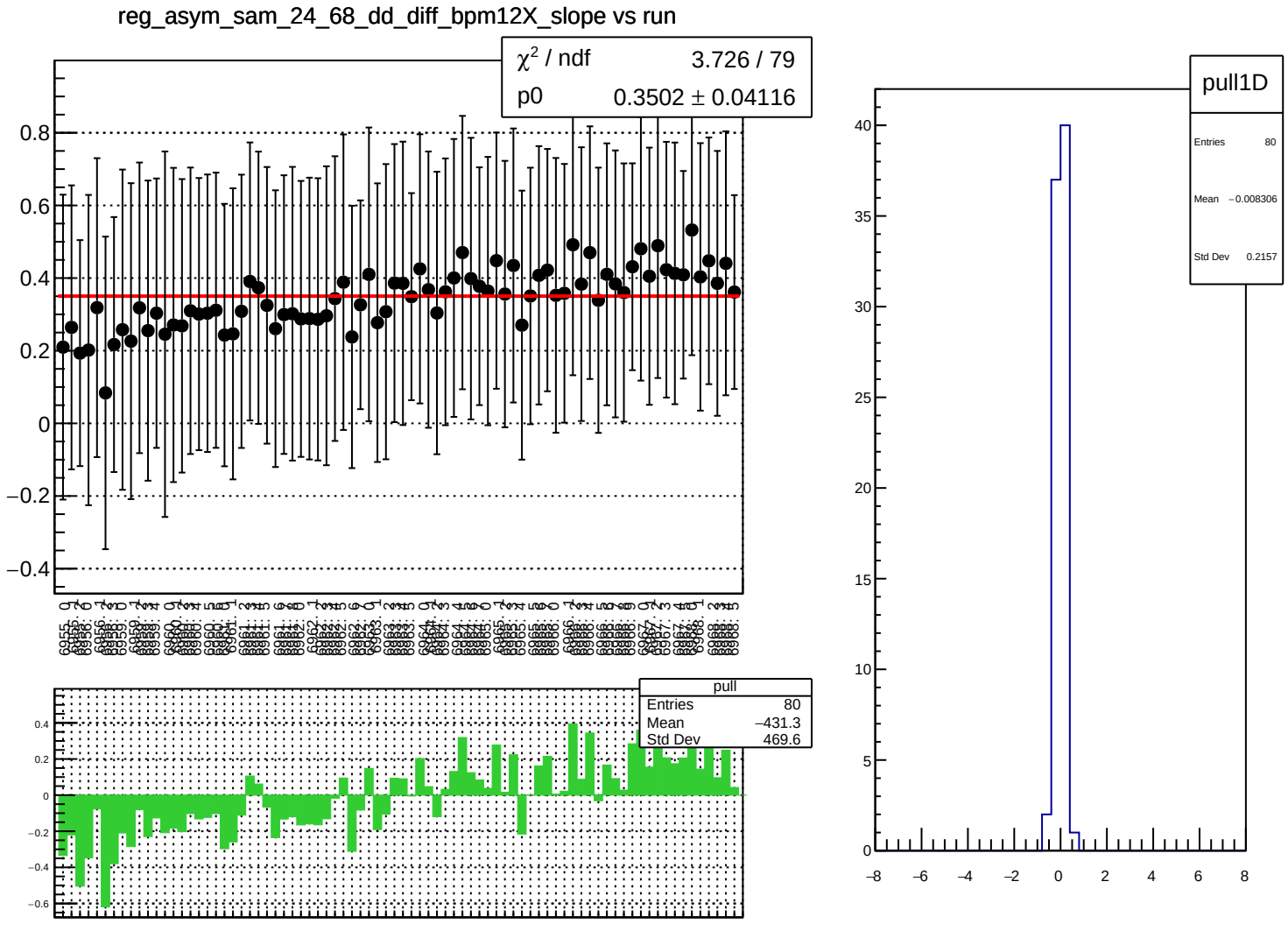

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.465 / 79
p0 −3.579 ± 0.9267
pull
Entries 80
Mean 102.2
Std Dev 54.01
pull1D
Entries 80
Mean −0.02623
Std Dev 0.2601

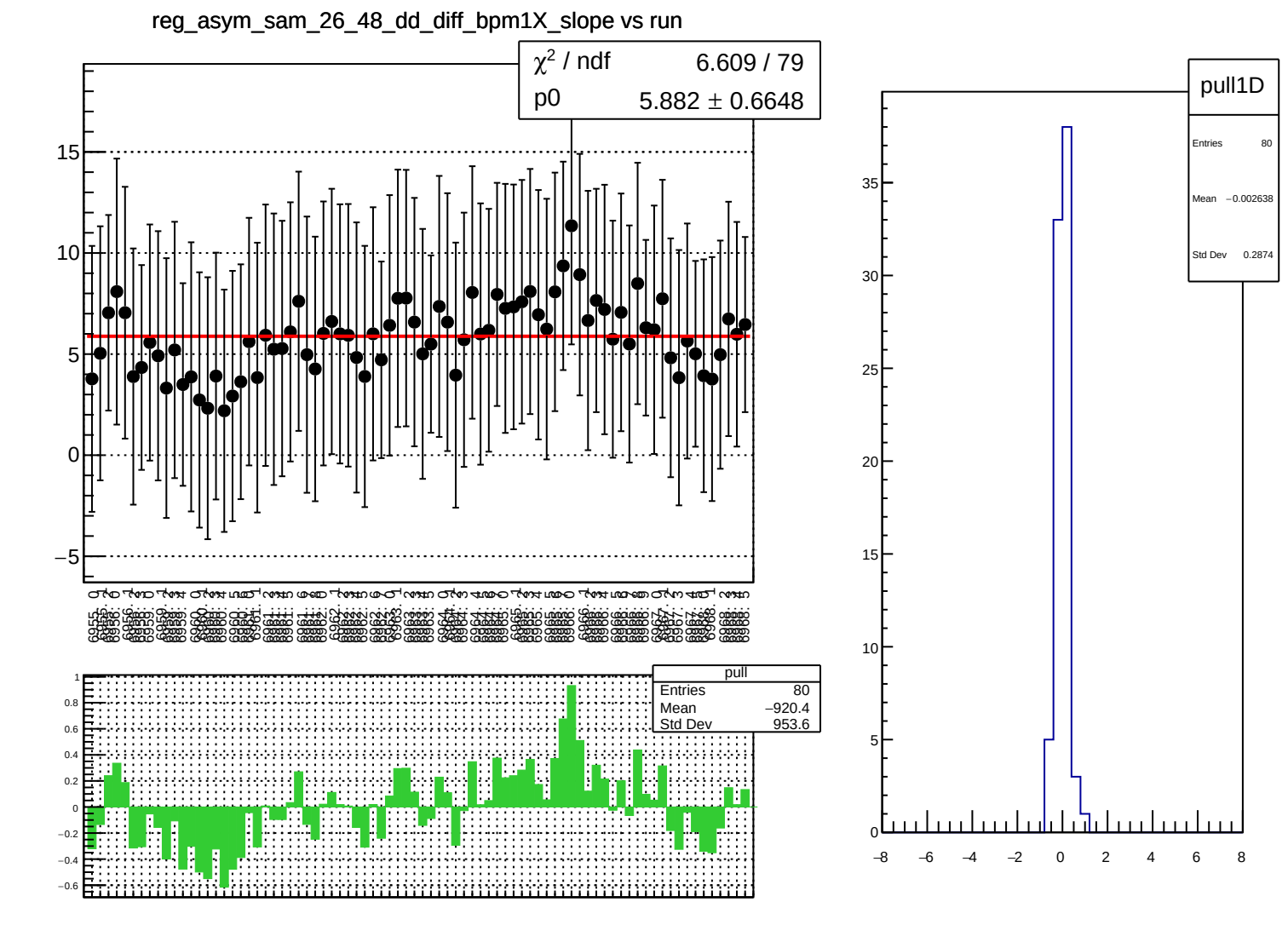

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.537 / 79
p0 −76.11 ± 1.25
pull
Entries 80
Mean −1019
Std Dev 1063

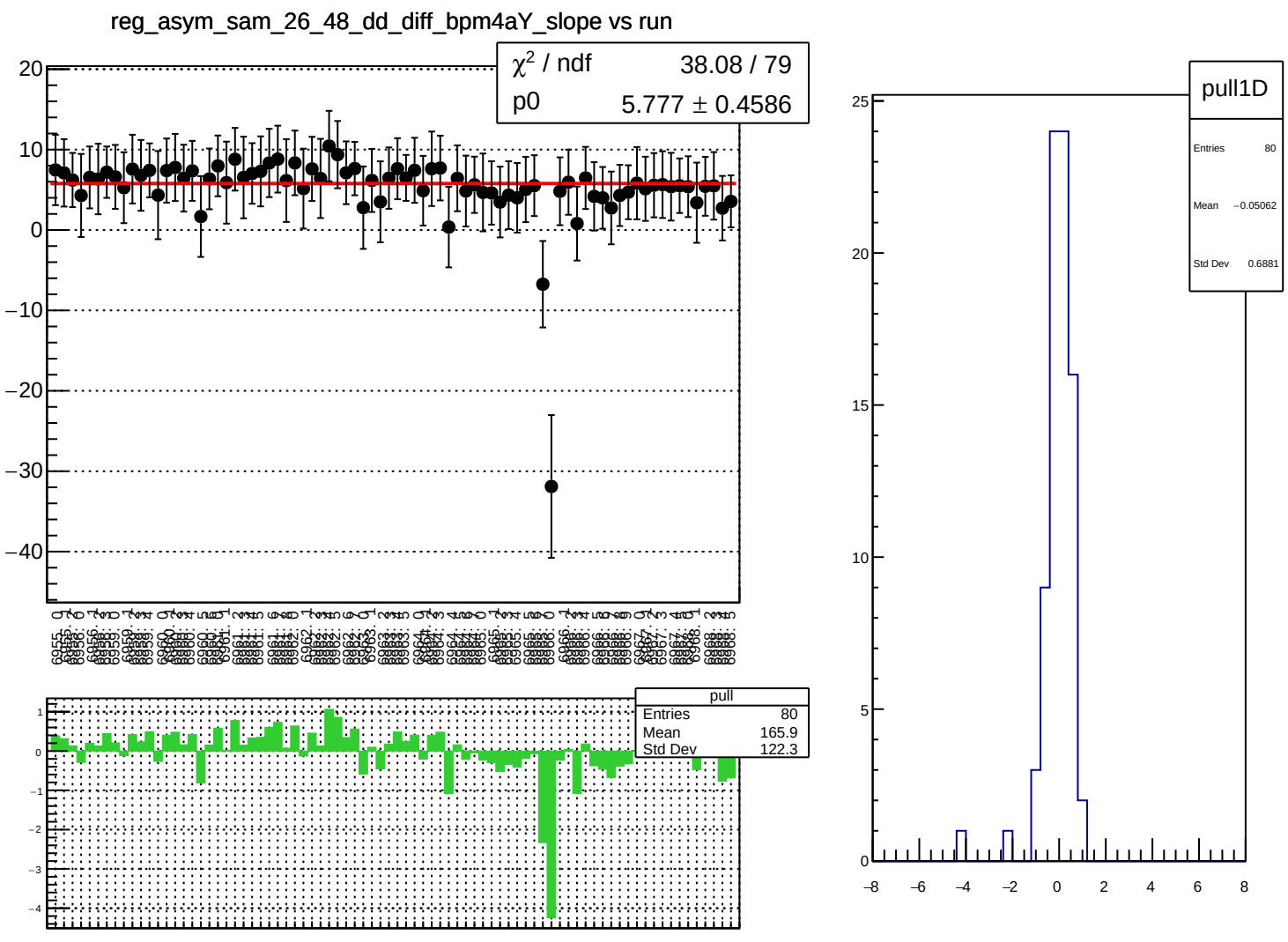

pull1D
Entries 80
Mean 0.0009558
Std Dev 0.1781

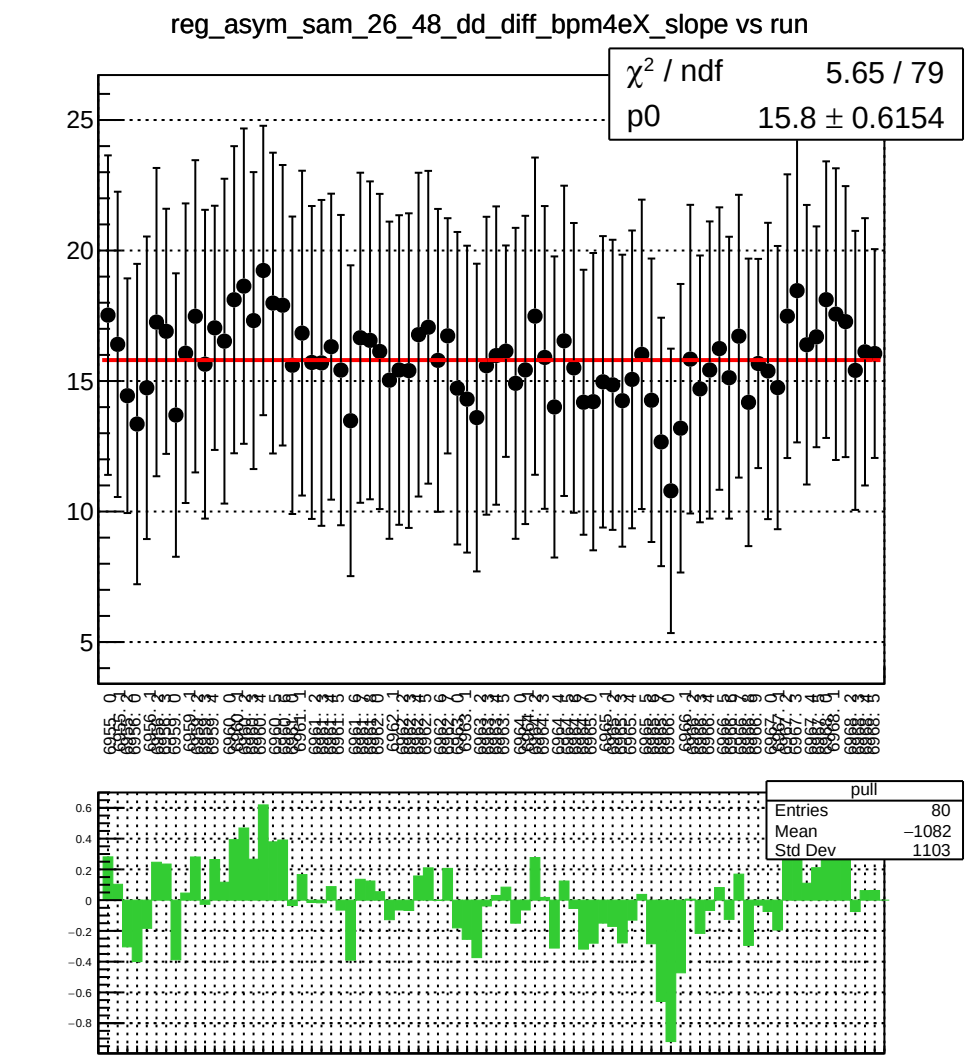

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.749 / 79
p0 −12.55 ± 1.056
pull
Entries 80
Mean 115.7
Std Dev 66.98

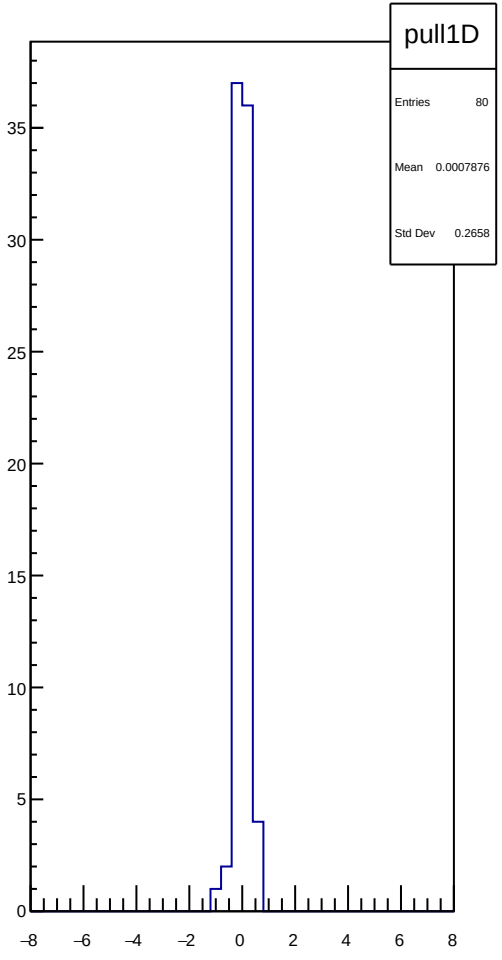

pull1D
Entries 80
Mean 0.01906
Std Dev 0.2429

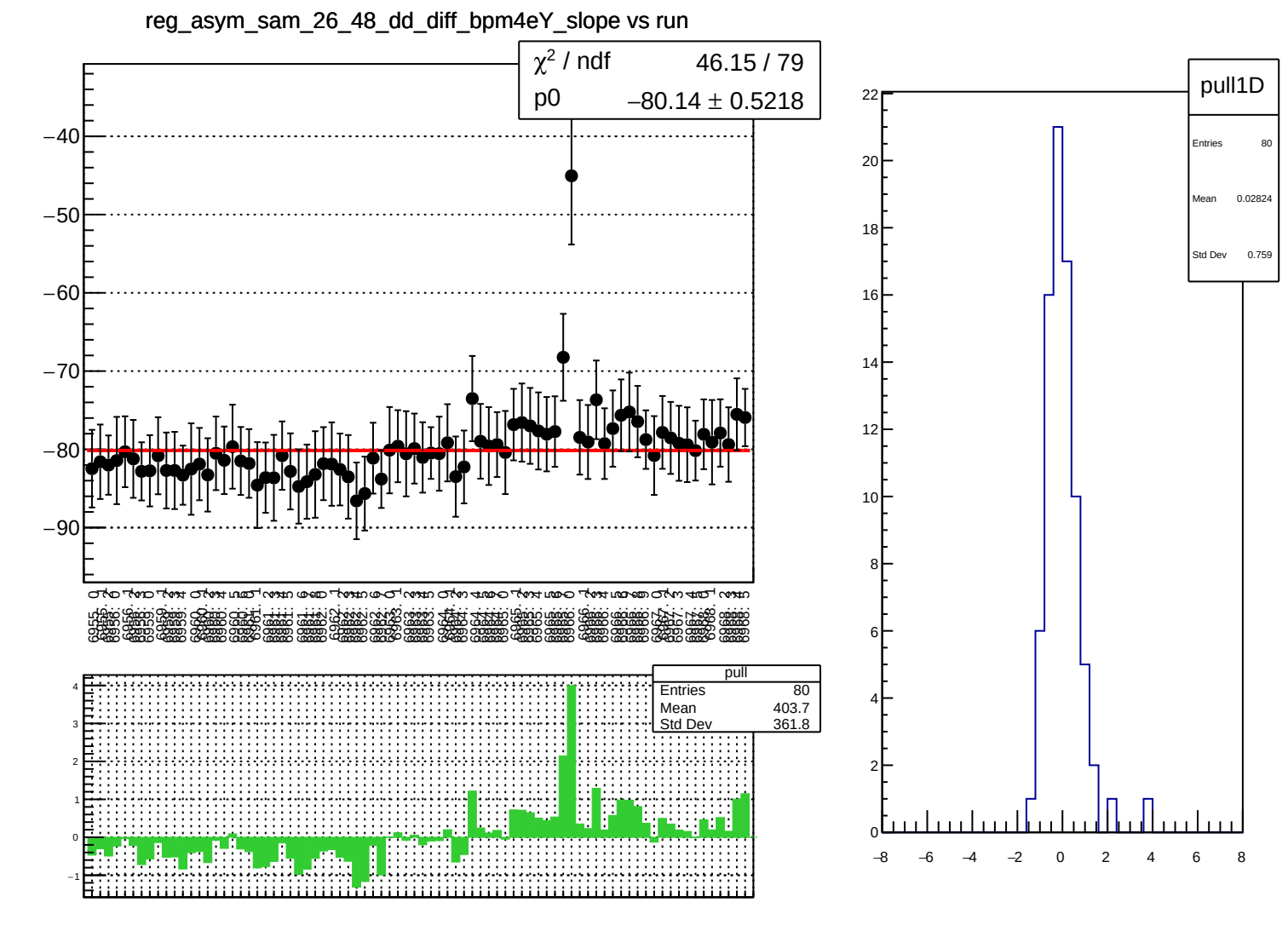

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 3.726 / 79
p0 0.3502 ± 0.04116
pull
Entries 80
Mean −431.3
Std Dev 469.6
pull1D
Entries 80
Mean −0.008306
Std Dev 0.2157

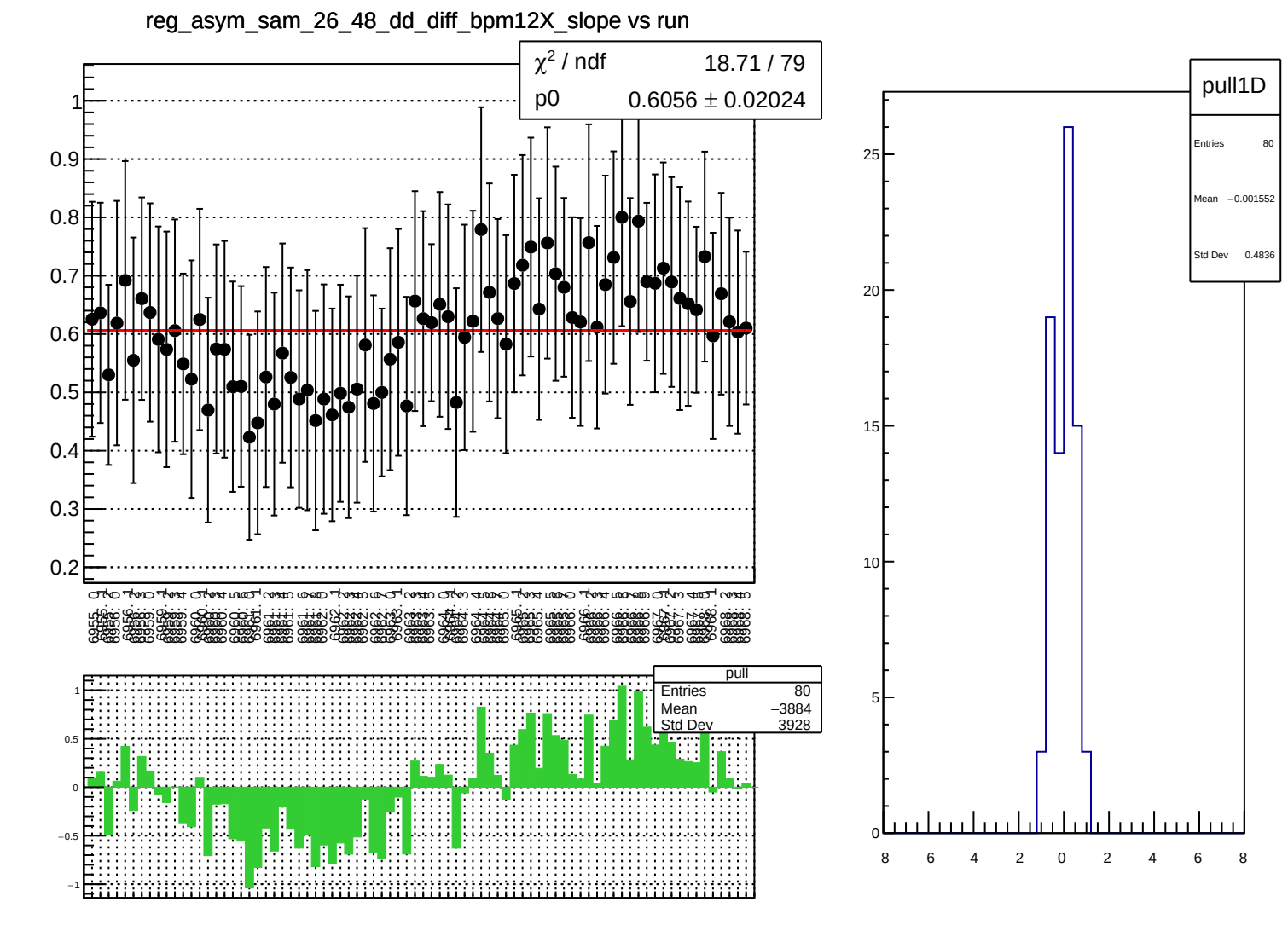

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.609 / 79
p0 5.882 ± 0.6648
pull
Entries 80
Mean −920.4
Std Dev 953.6
pull1D
Entries 80
Mean −0.002638
Std Dev 0.2874

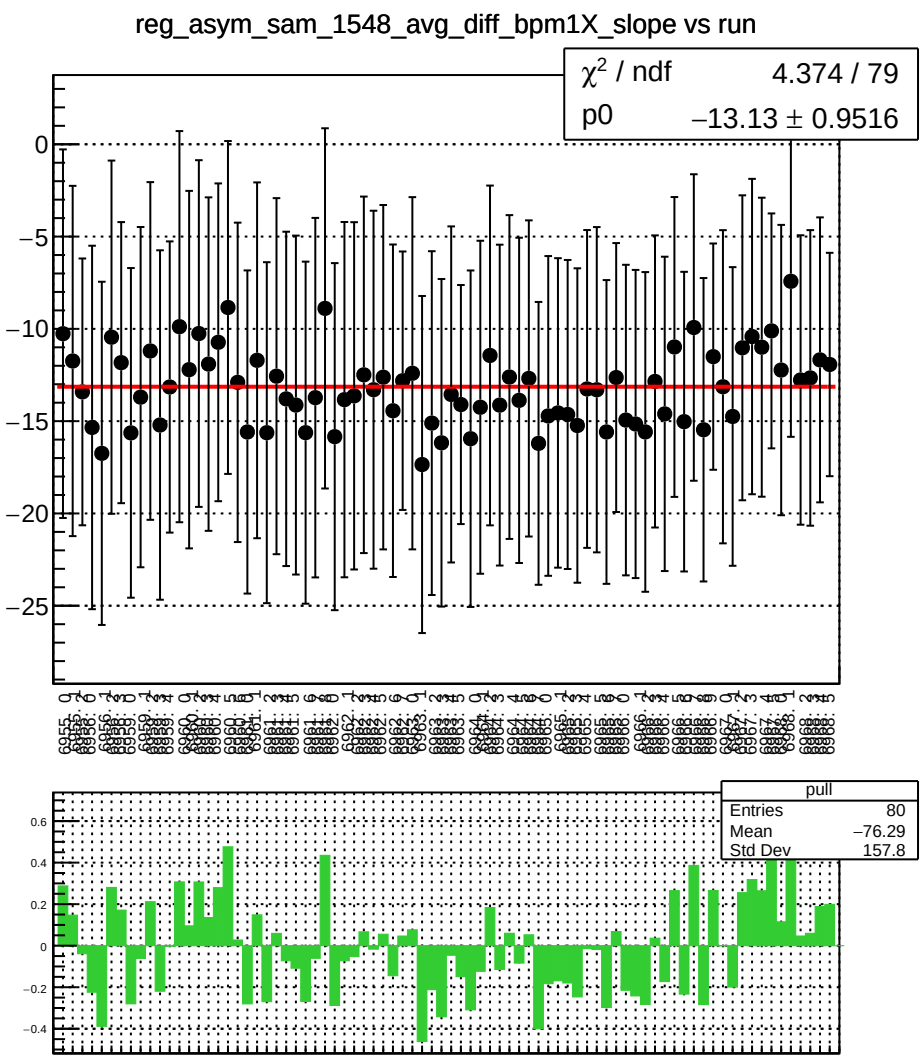

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.08 / 79
p0 5.777 ± 0.4586
pull
Entries 80
Mean 165.9
Std Dev 122.3
pull1D
Entries 80
Mean −0.05062
Std Dev 0.6881

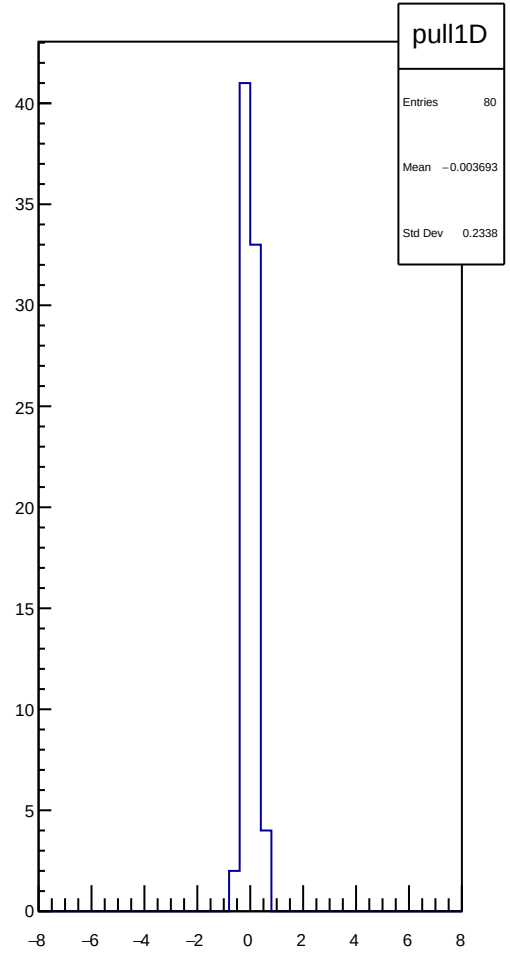

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.65 / 79
p0 15.8 ± 0.6154
pull
Entries 80
Mean −1082
Std Dev 1103

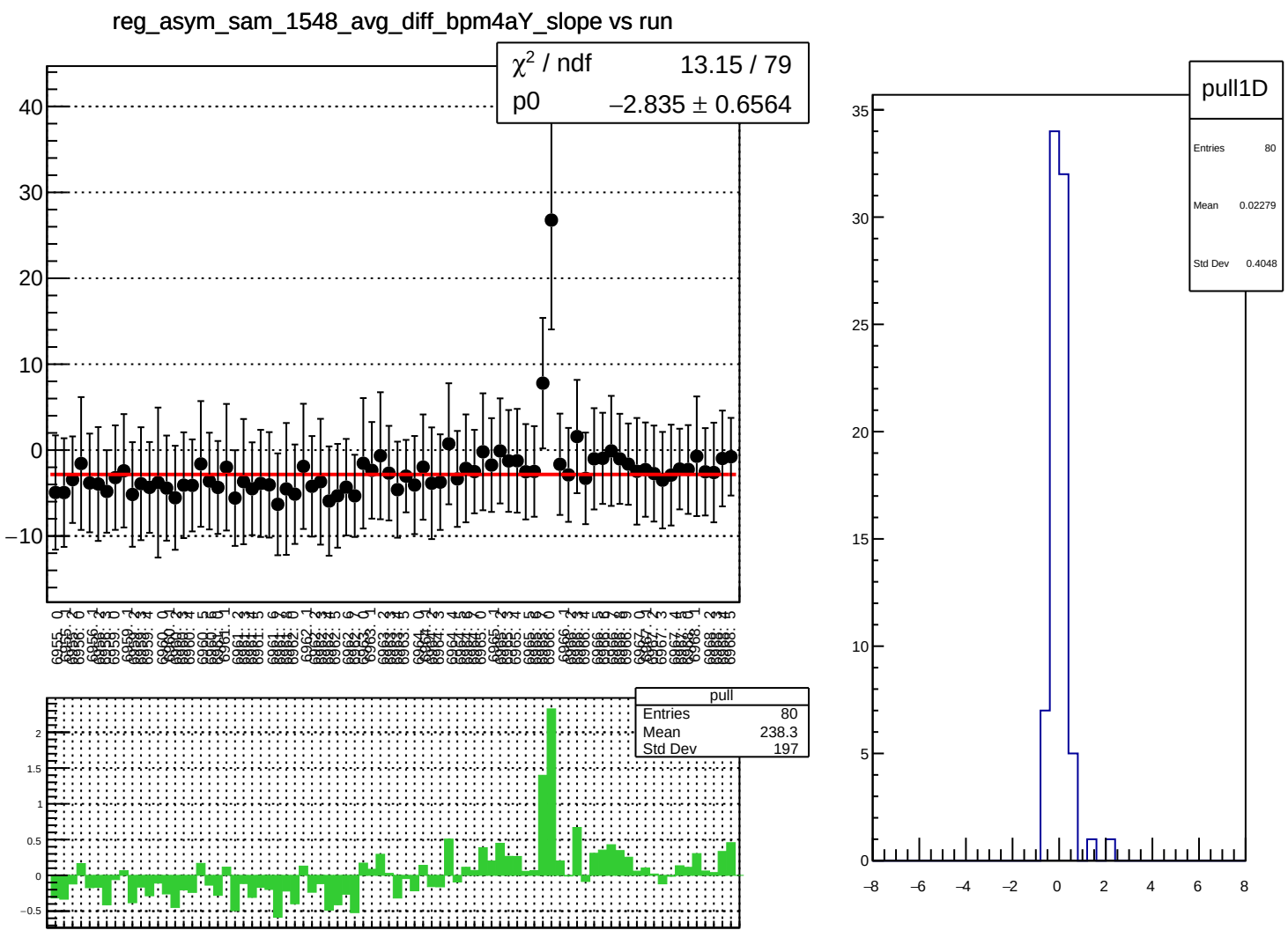

pull1D
Entries 80
Mean 0.0007876
Std Dev 0.2658

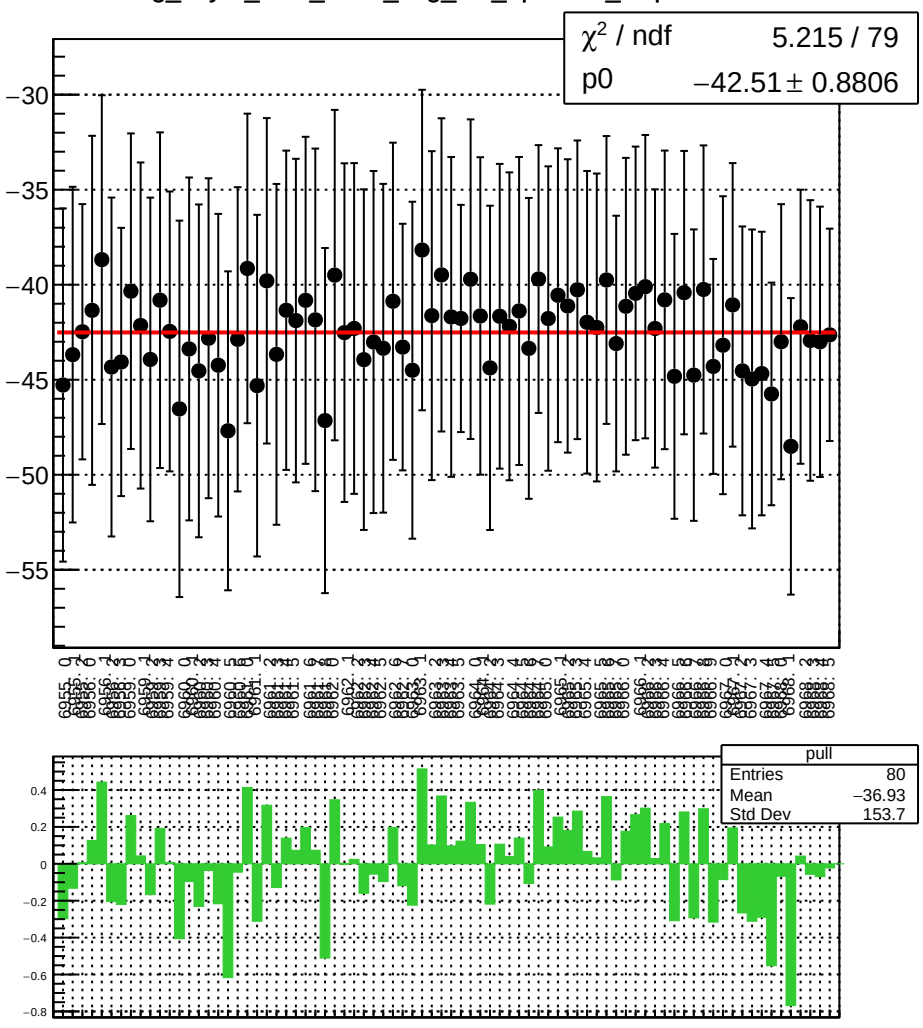

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.15 / 79
p0 −80.14 ± 0.5218
pull
Entries 80
Mean 403.7
Std Dev 361.8
pull1D
Entries 80
Mean 0.02824
Std Dev 0.759

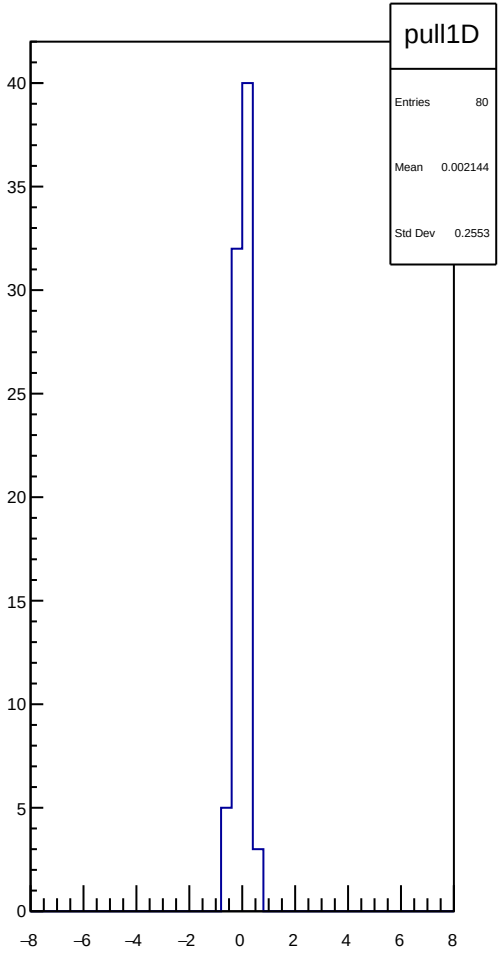

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 18.71 / 79
p0 0.6056 ± 0.02024
pull
Entries 80
Mean −3884
Std Dev 3928
pull1D
Entries 80
Mean −0.001552
Std Dev 0.4836

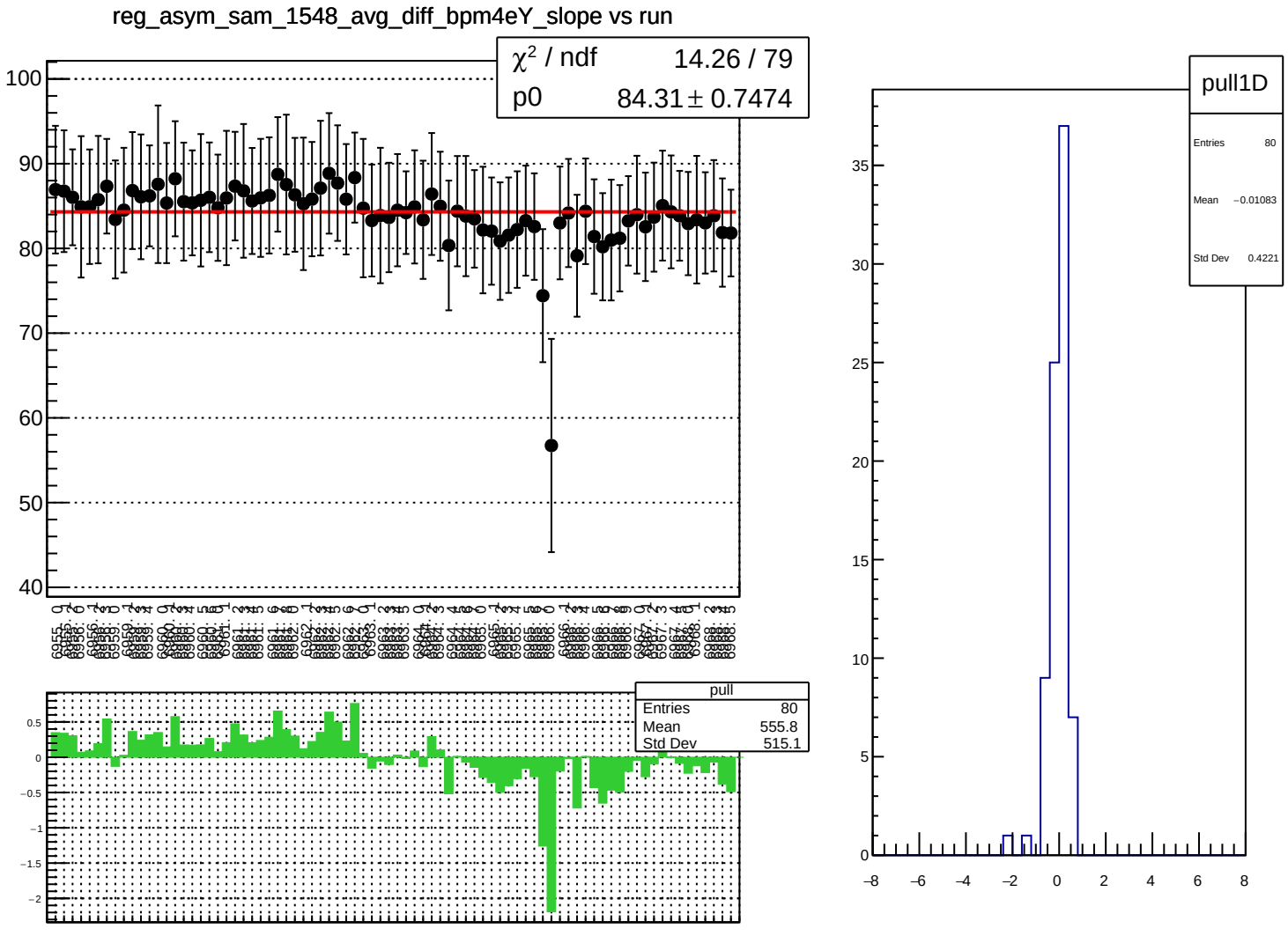

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 4.374 / 79
p0 −13.13 ± 0.9516
pull
Entries 80
Mean −76.29
Std Dev 157.8

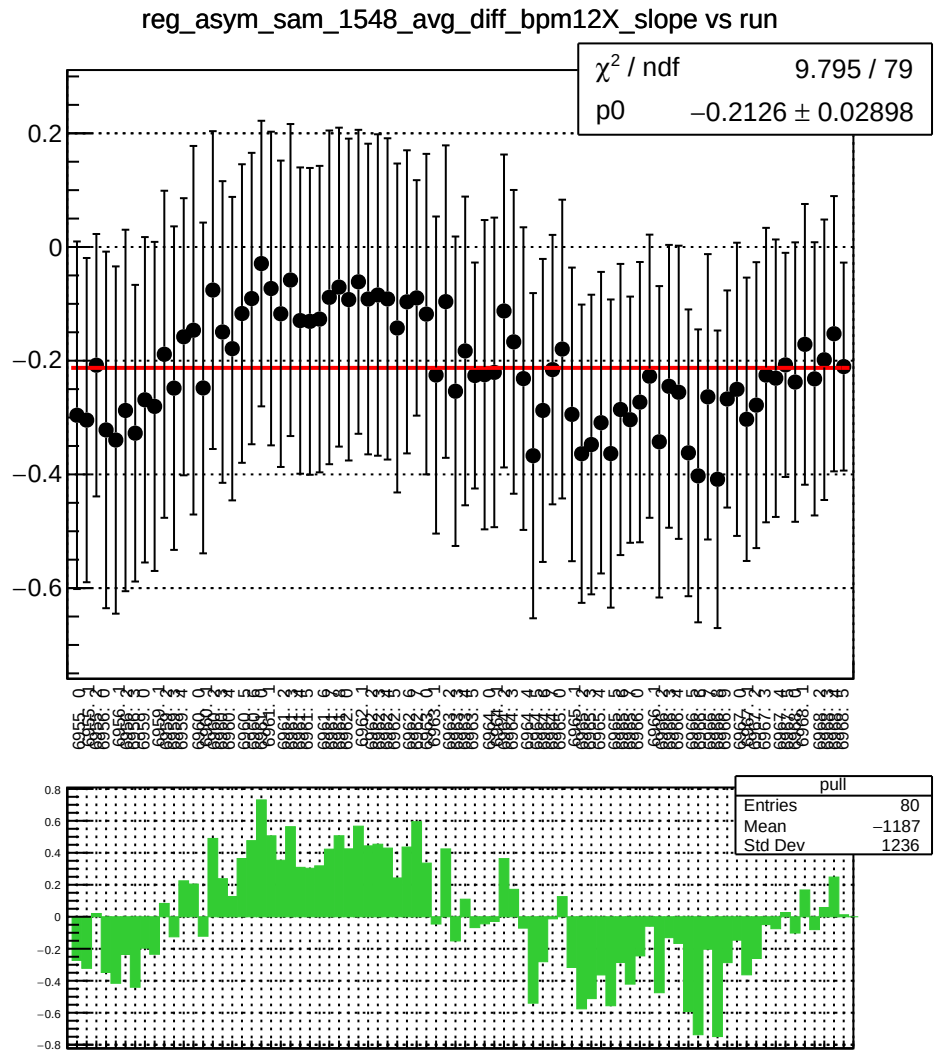

pull1D
Entries 80
Mean −0.003693
Std Dev 0.2338

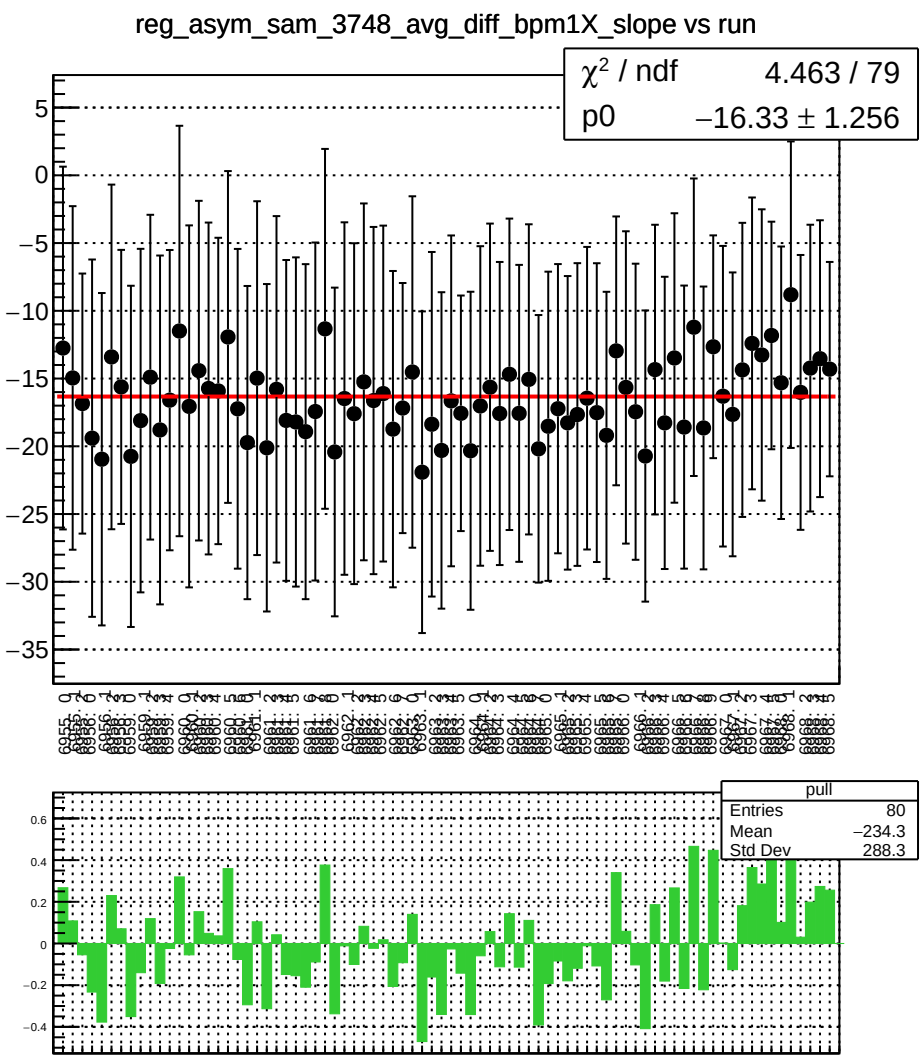

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.15 / 79
p0 −2.835 ± 0.6564
pull
Entries 80
Mean 238.3
Std Dev 197
pull1D
Entries 80
Mean 0.02279
Std Dev 0.4048

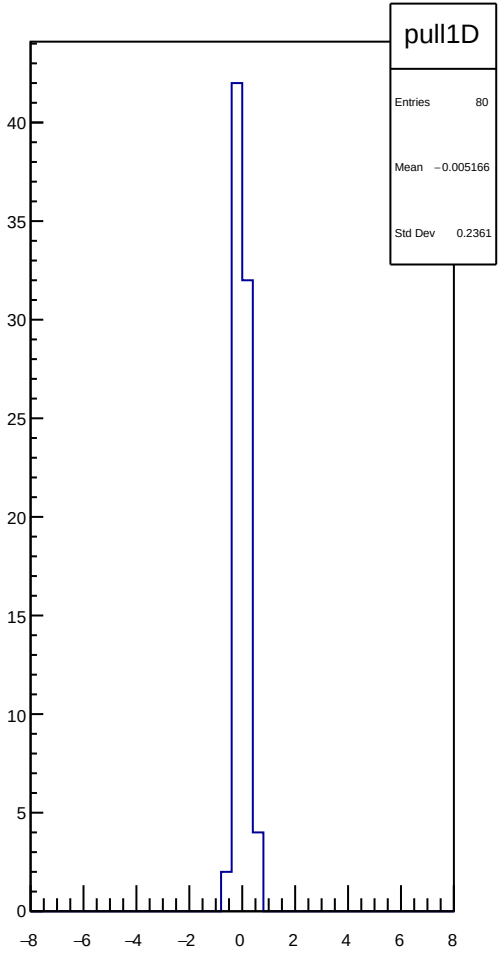

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.215 / 79
p0 −42.51 ± 0.8806
pull
Entries 80
Mean −36.93
Std Dev 153.7

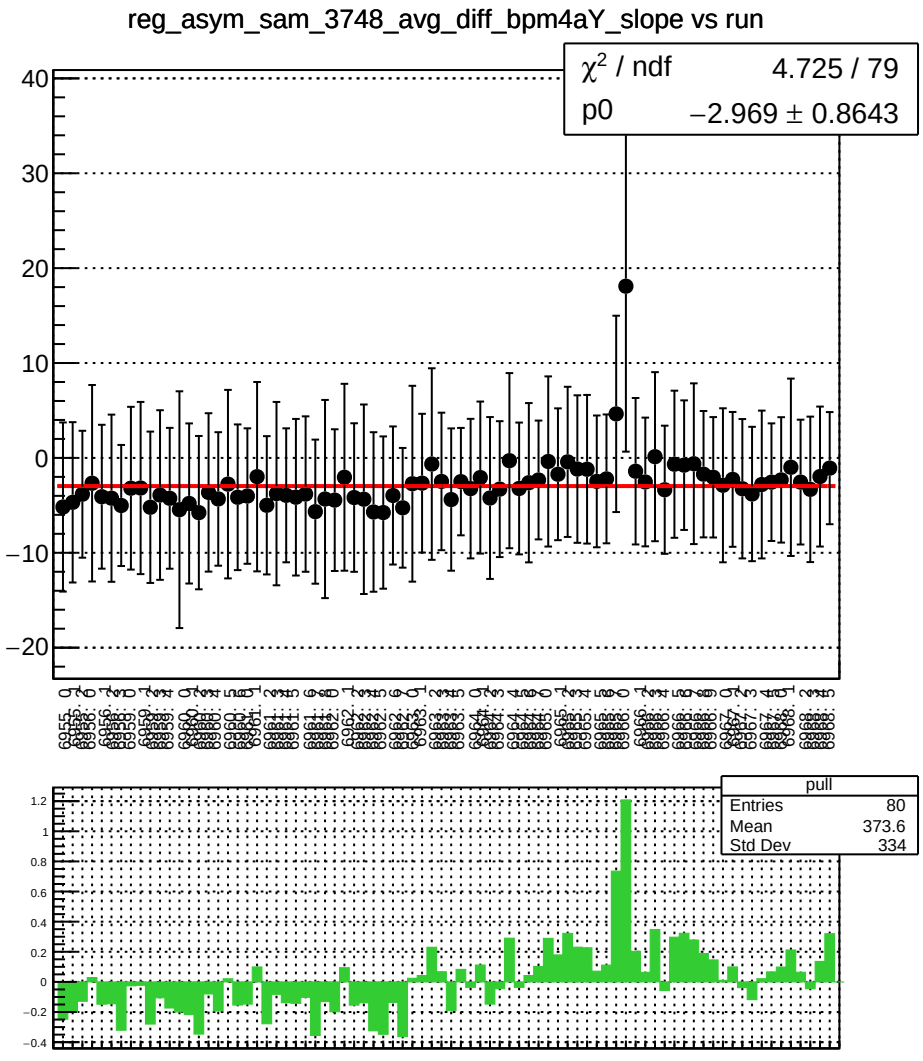

pull1D
Entries 80
Mean 0.002144
Std Dev 0.2553

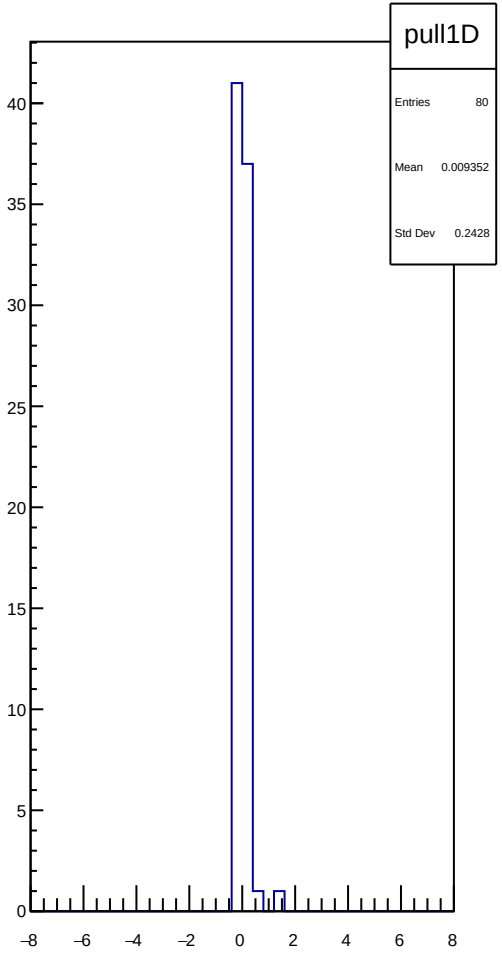

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.26 / 79
p0 84.31 ± 0.7474
pull
Entries 80
Mean 555.8
Std Dev 515.1
pull1D
Entries 80
Mean −0.01083
Std Dev 0.4221

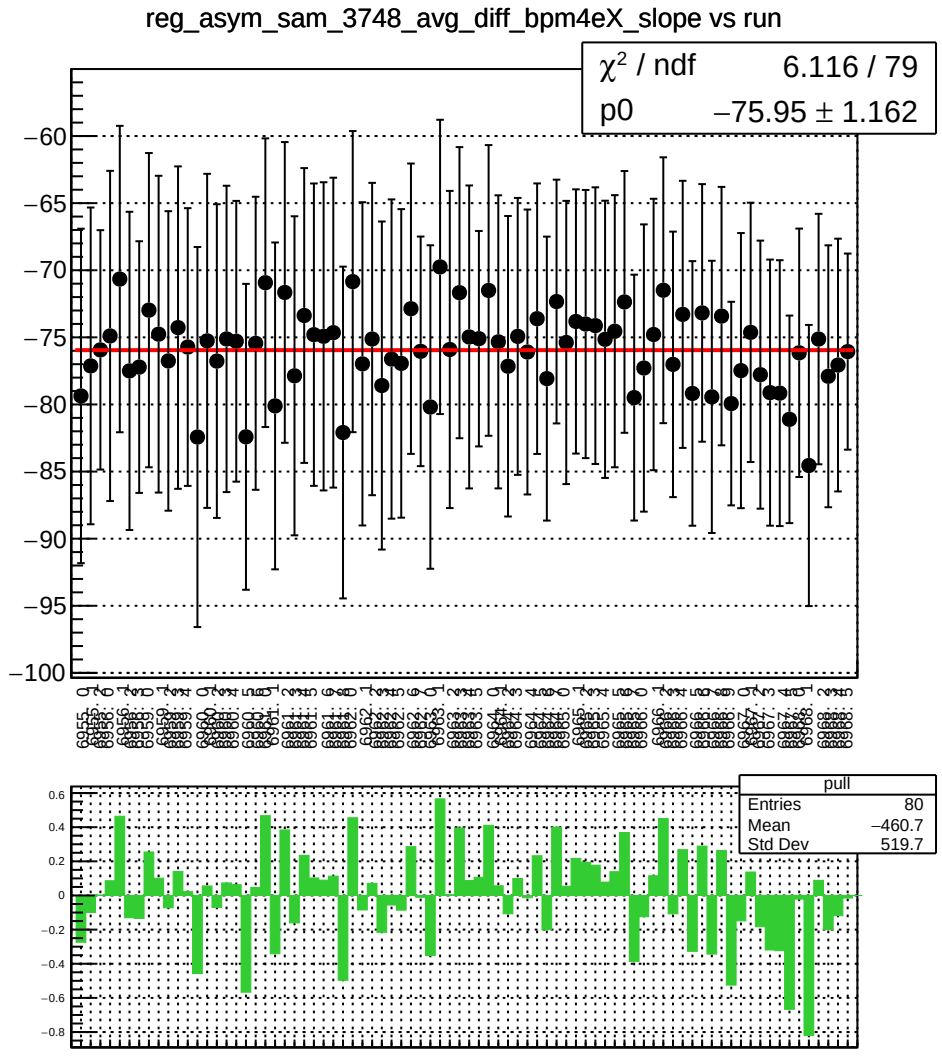

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 9.795 / 79
p0 −0.2126 ± 0.02898
pull
Entries 80
Mean −1187
Std Dev 1236
pull1D
Entries 80
Mean 0.002108
Std Dev 0.3499

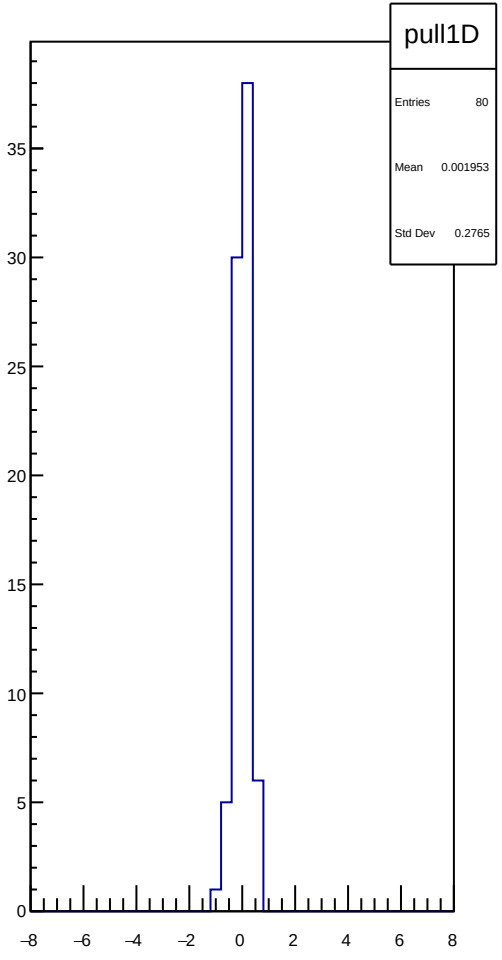

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 4.463 / 79
p0 −16.33 ± 1.256
pull
Entries 80
Mean −234.3
Std Dev 288.3

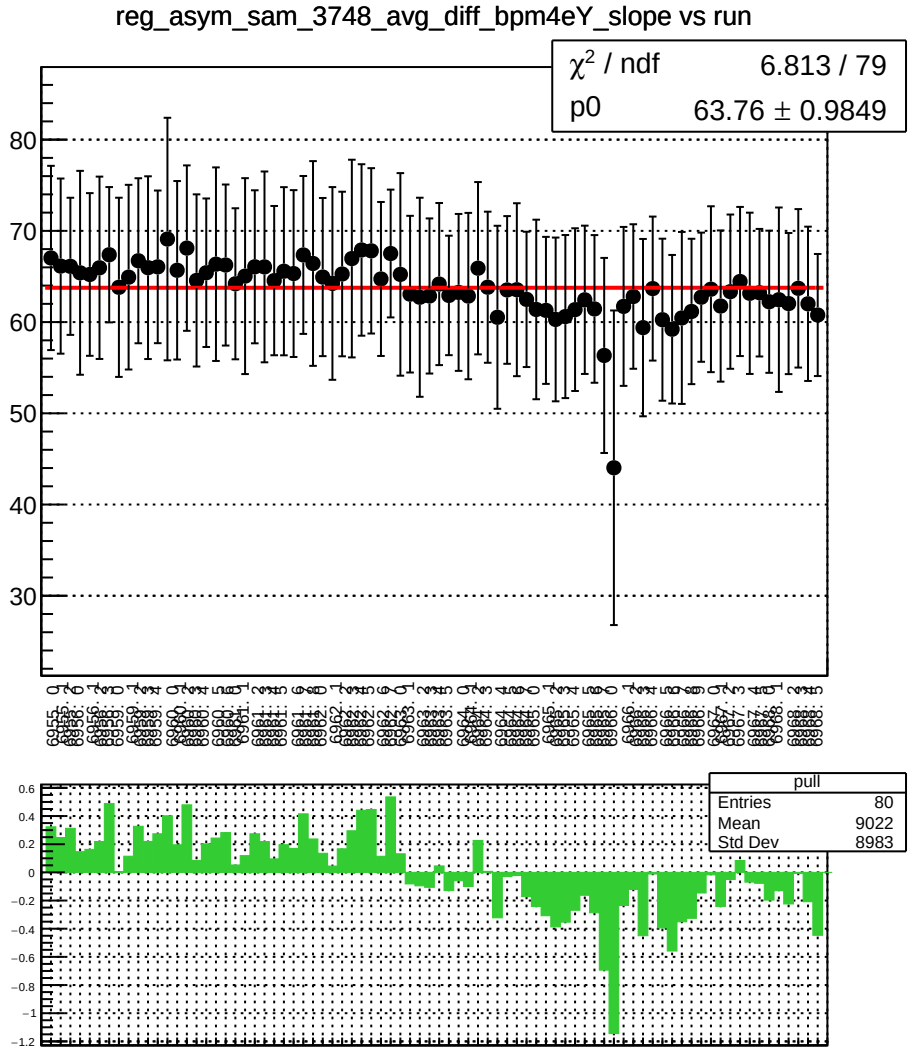

pull1D
Entries 80
Mean −0.005166
Std Dev 0.2361

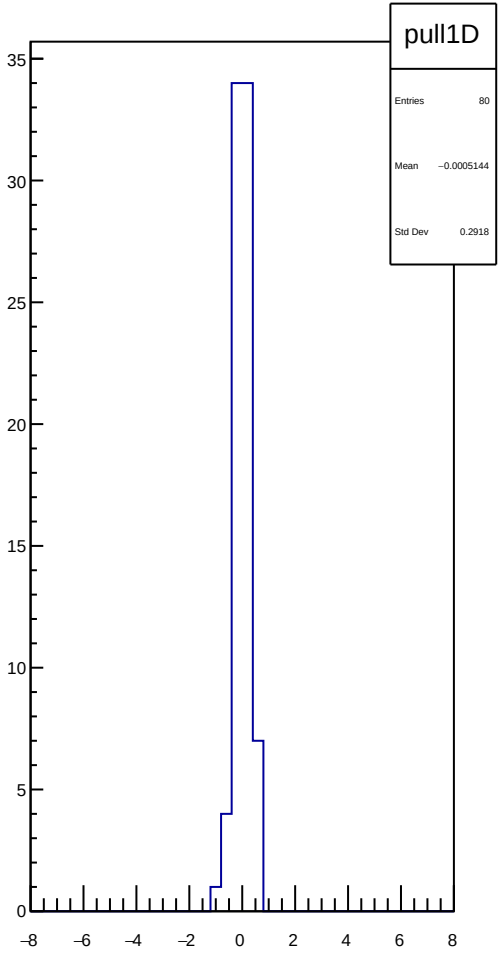

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.725 / 79
p0 −2.969 ± 0.8643
pull
Entries 80
Mean 373.6
Std Dev 334

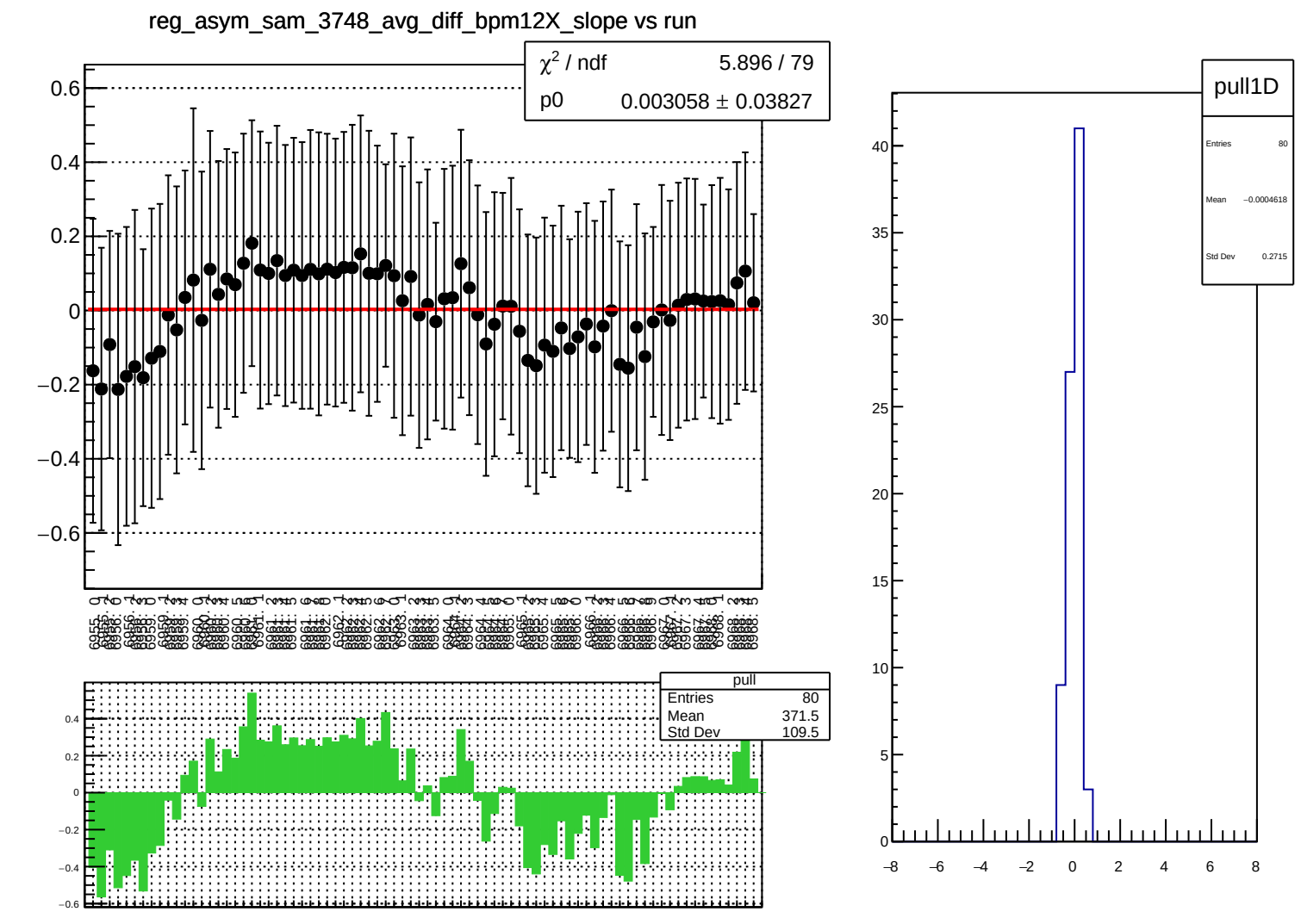

pull1D
Entries 80
Mean 0.009352
Std Dev 0.2428

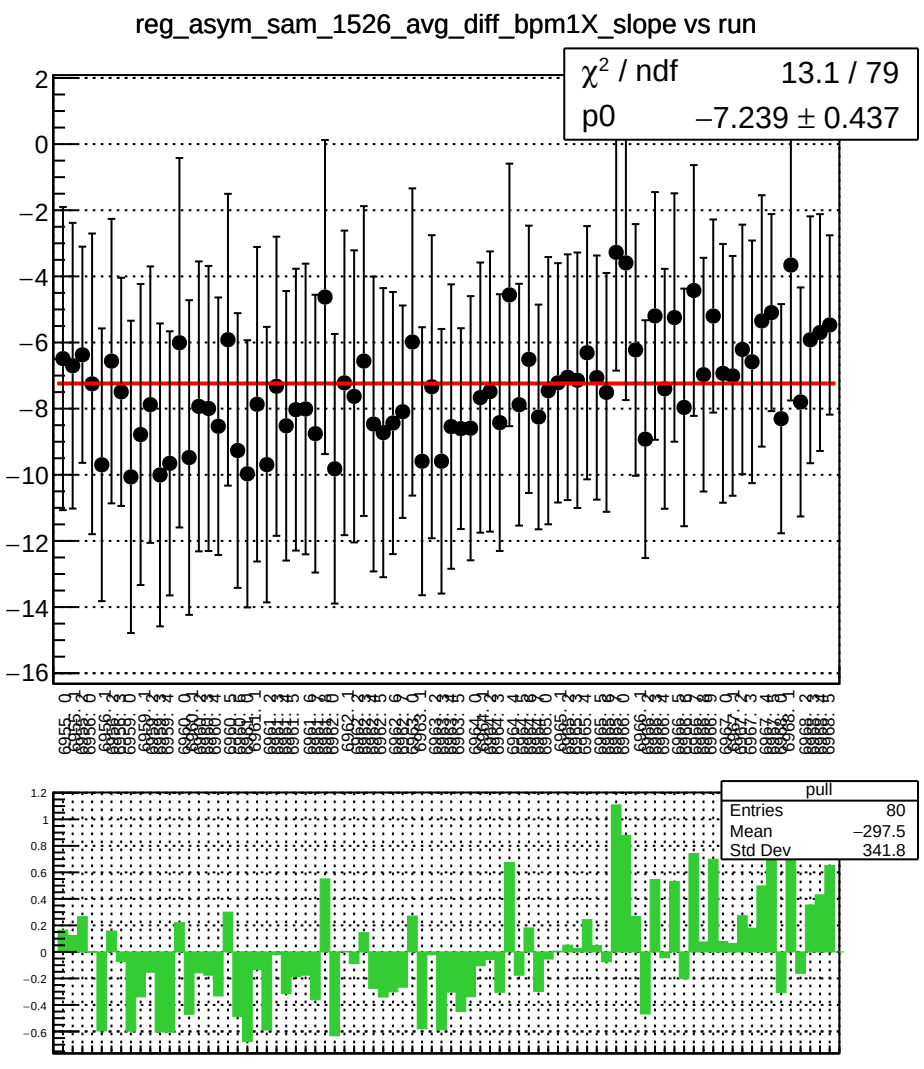

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.116 / 79
p0 −75.95 ± 1.162
pull
Entries 80
Mean −460.7
Std Dev 519.7

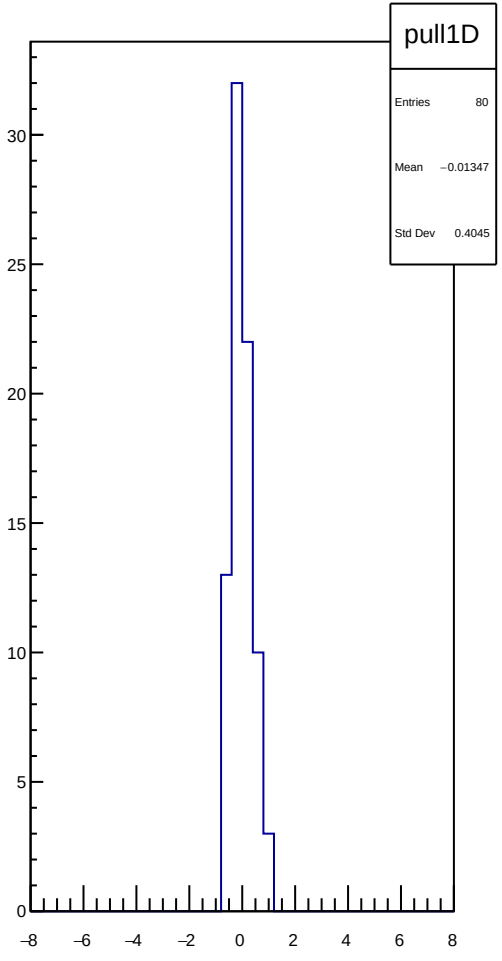

pull1D
Entries 80
Mean 0.001953
Std Dev 0.2765

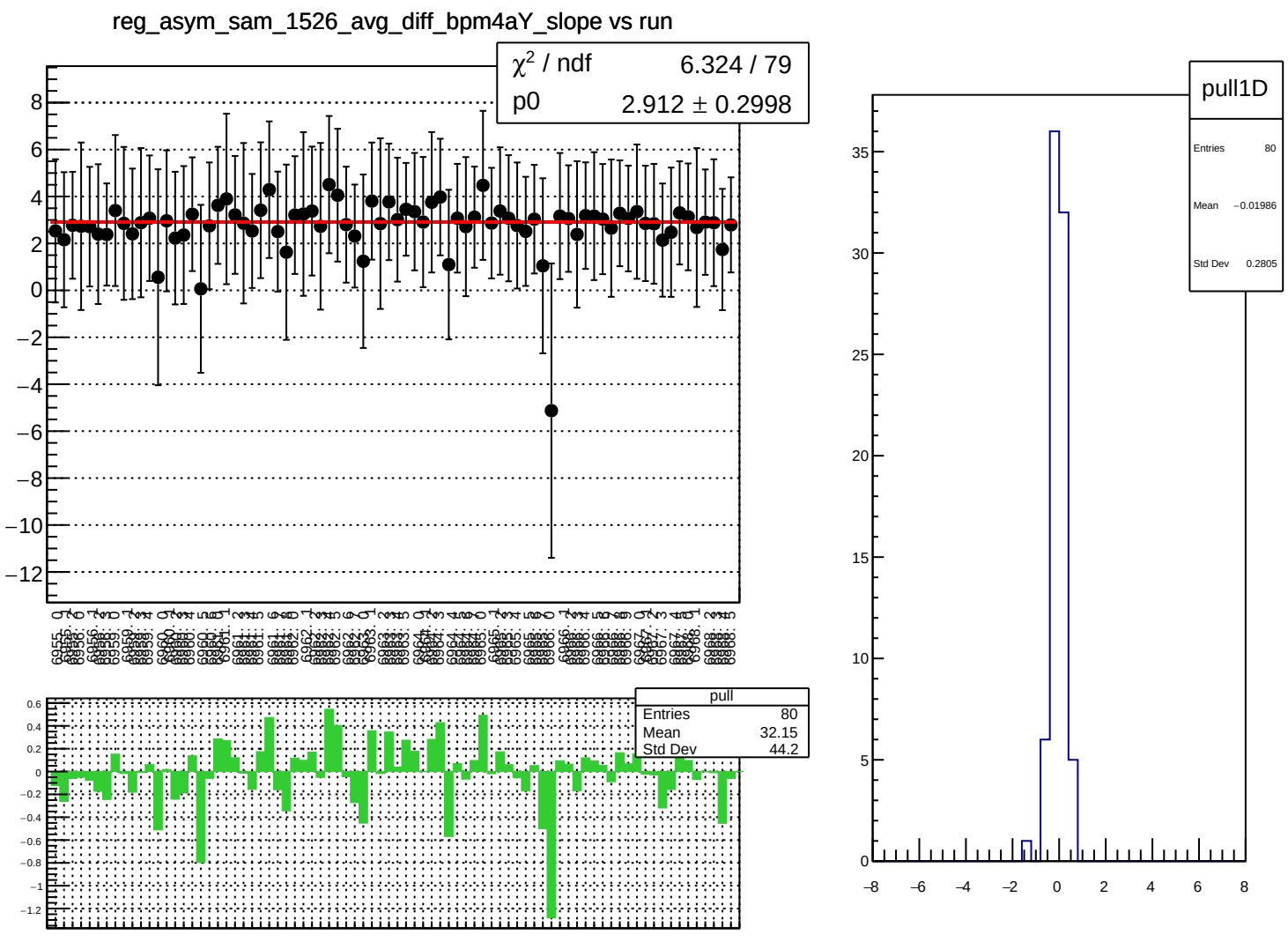

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.813 / 79
p0 63.76 ± 0.9849
pull
Entries 80
Mean 9022
Std Dev 8983

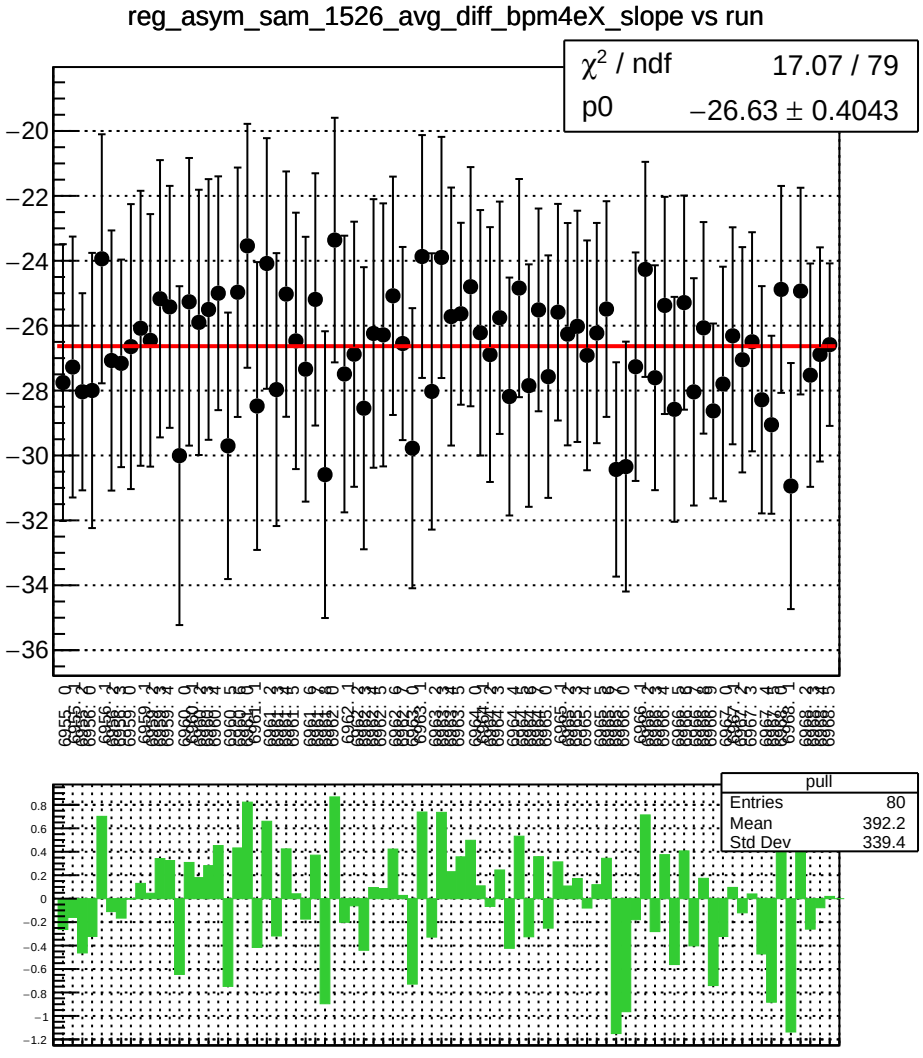

pull1D
Entries 80
Mean −0.0005144
Std Dev 0.2918

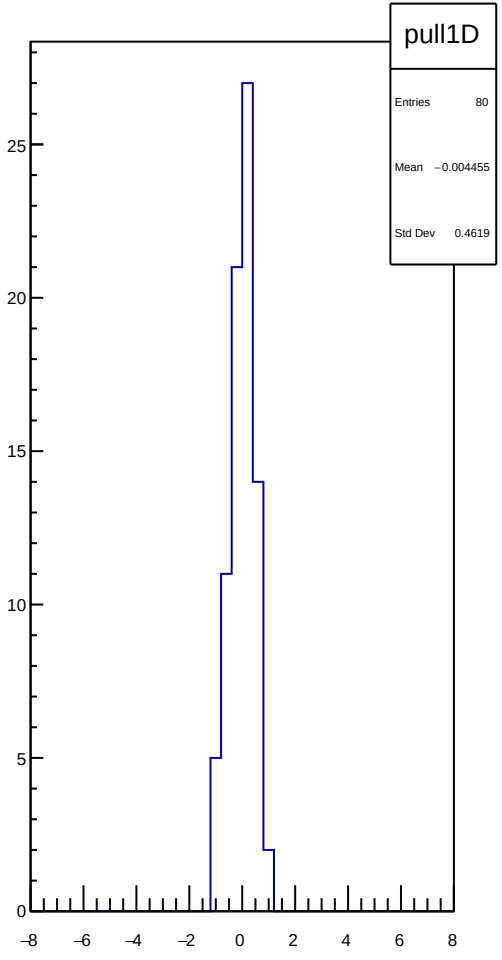

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 5.896 / 79
p0 0.003058 ± 0.03827
pull
Entries 80
Mean 371.5
Std Dev 109.5
pull1D
Entries 80
Mean −0.0004618
Std Dev 0.2715

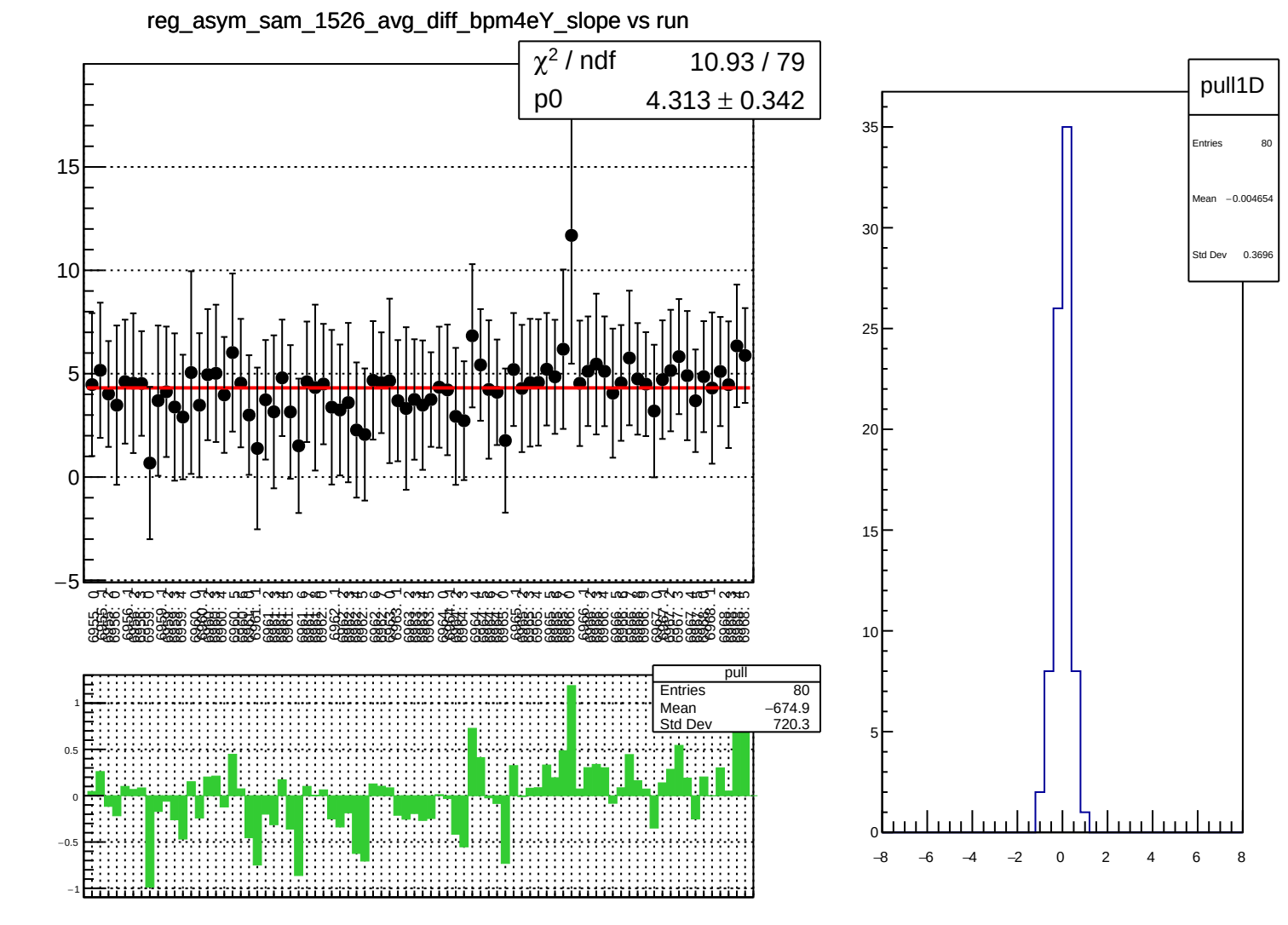

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 13.1 / 79
p0 −7.239 ± 0.437
pull
Entries 80
Mean −297.5
Std Dev 341.8

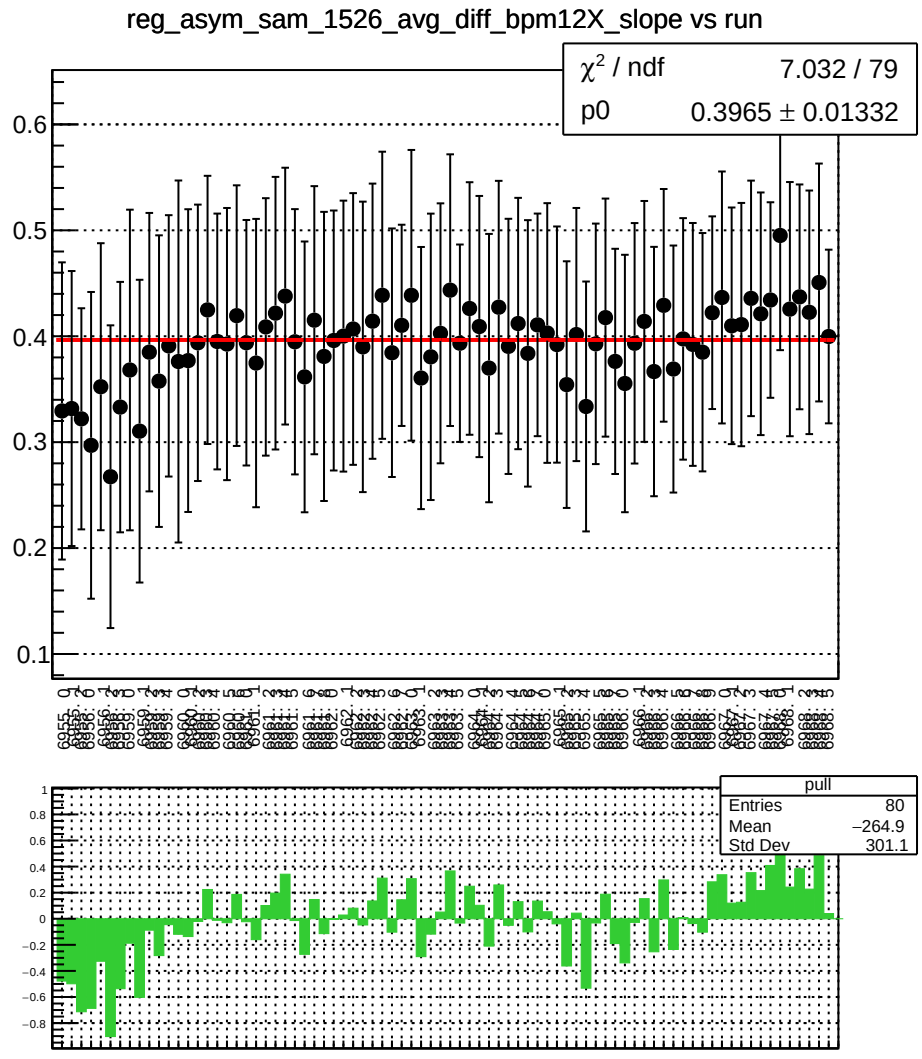

pull1D
Entries 80
Mean −0.01347
Std Dev 0.4045

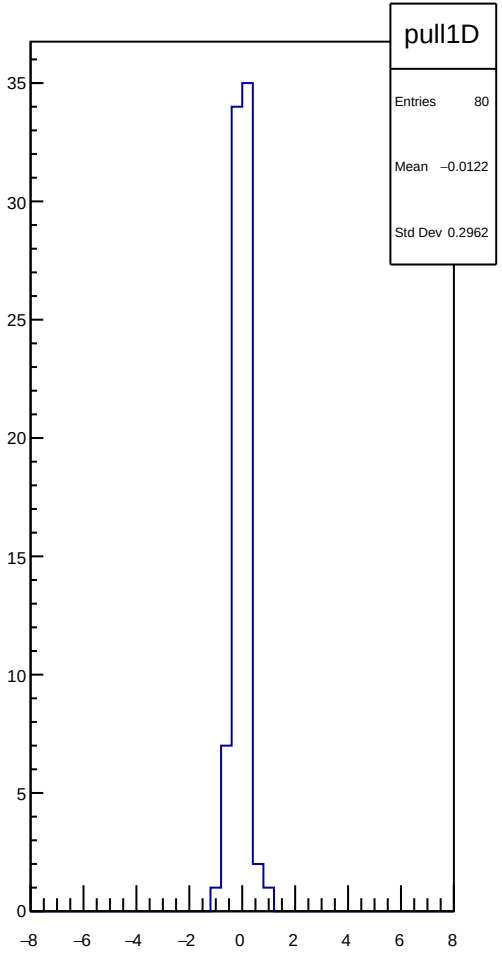

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.324 / 79
p0 2.912 ± 0.2998
pull
Entries 80
Mean 32.15
Std Dev 44.2
pull1D
Entries 80
Mean −0.01986
Std Dev 0.2805

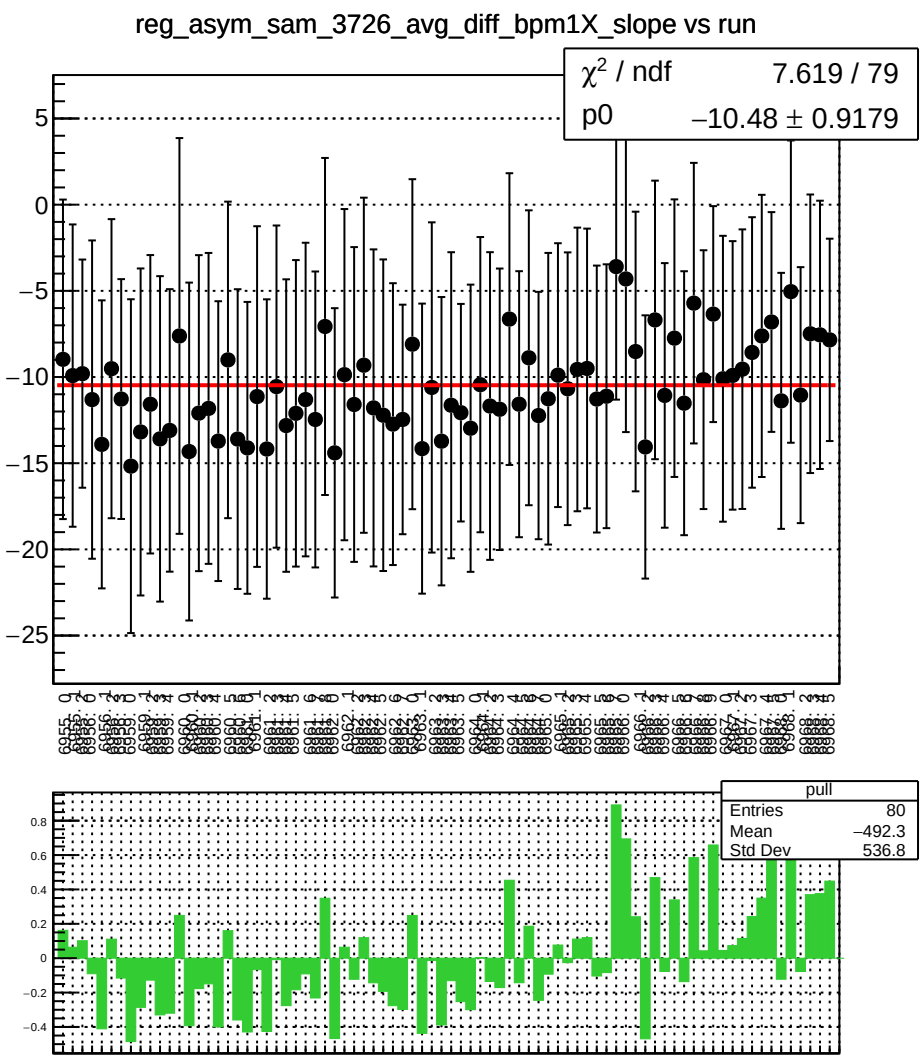

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.07 / 79
p0 −26.63 ± 0.4043
pull
Entries 80
Mean 392.2
Std Dev 339.4

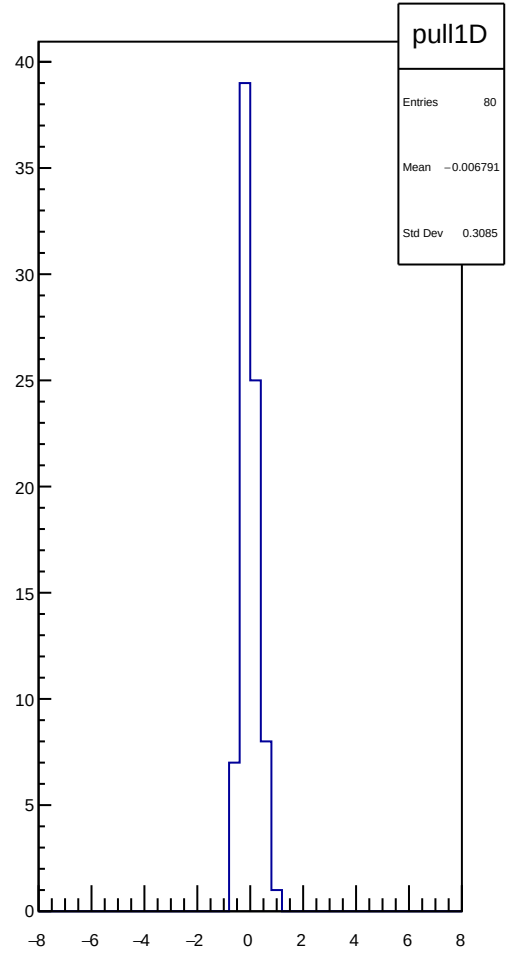

pull1D
Entries 80
Mean −0.004455
Std Dev 0.4619

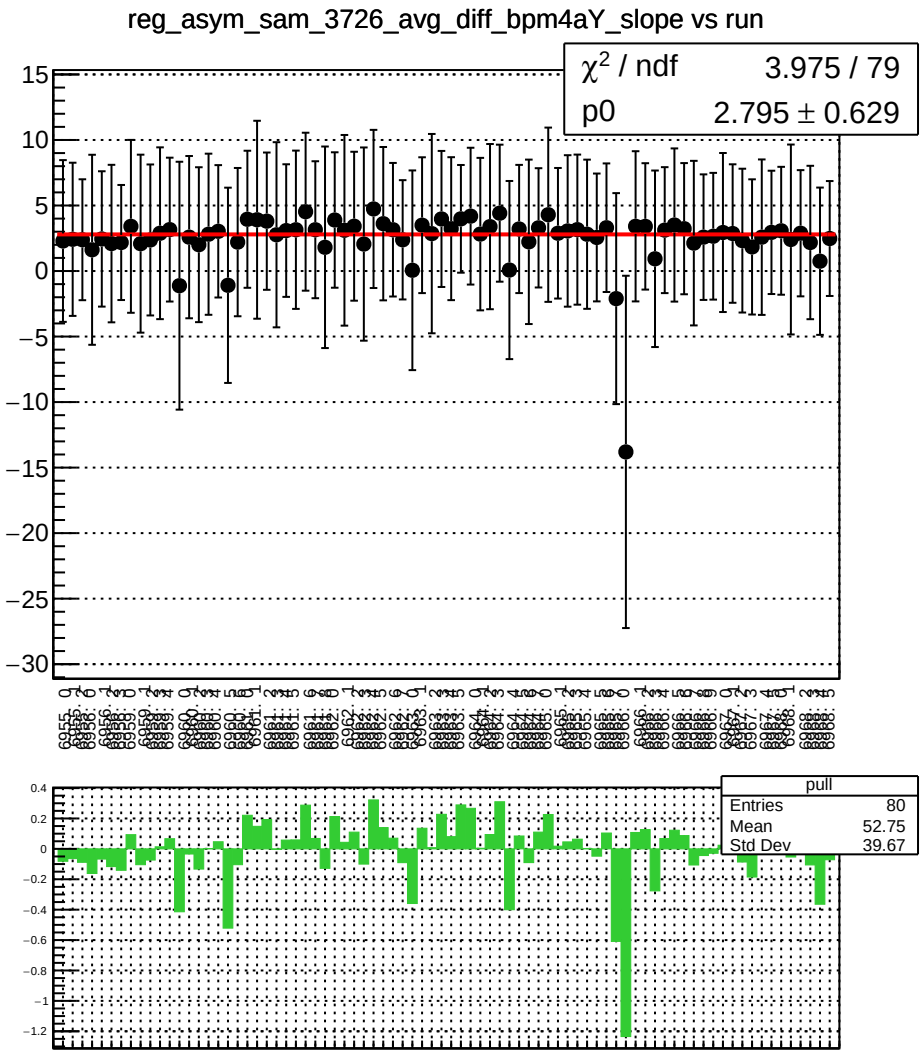

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.93 / 79
p0 4.313 ± 0.342
pull
Entries 80
Mean −674.9
Std Dev 720.3
pull1D
Entries 80
Mean −0.004654
Std Dev 0.3696

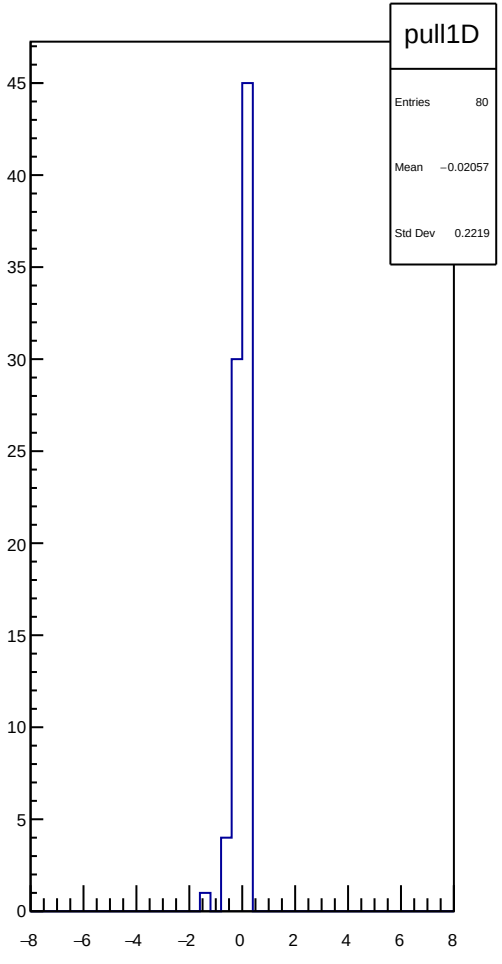

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 7.032 / 79
p0 0.3965 ± 0.01332
pull
Entries 80
Mean −264.9
Std Dev 301.1

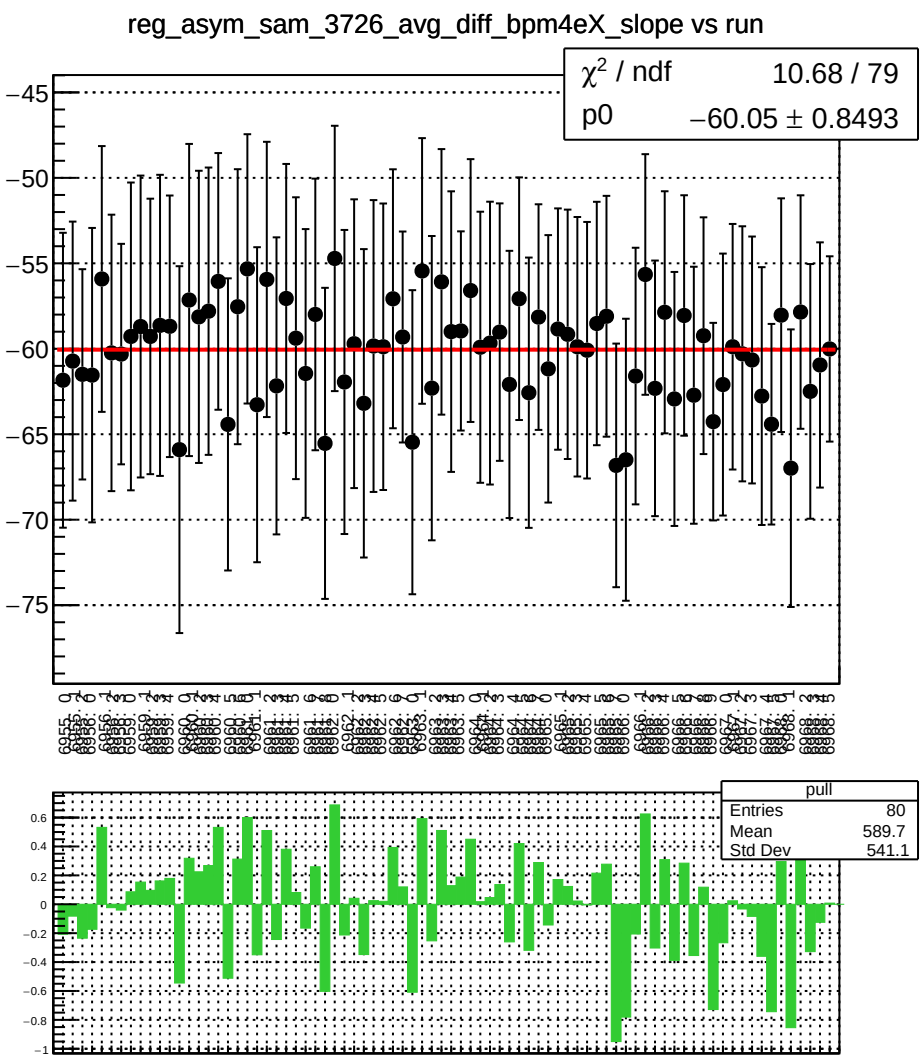

pull1D
Entries 80
Mean −0.0122
Std Dev 0.2962

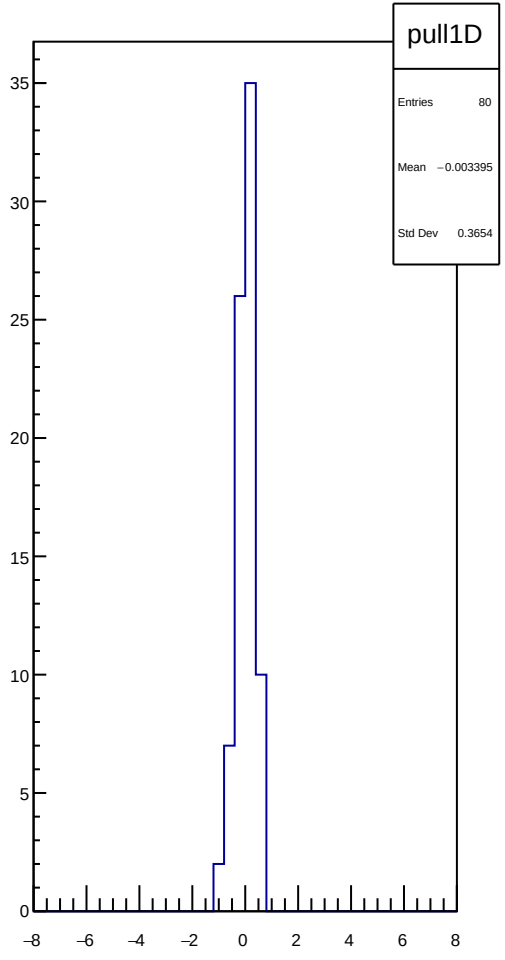

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 7.619 / 79
p0 −10.48 ± 0.9179
pull
Entries 80
Mean −492.3
Std Dev 536.8

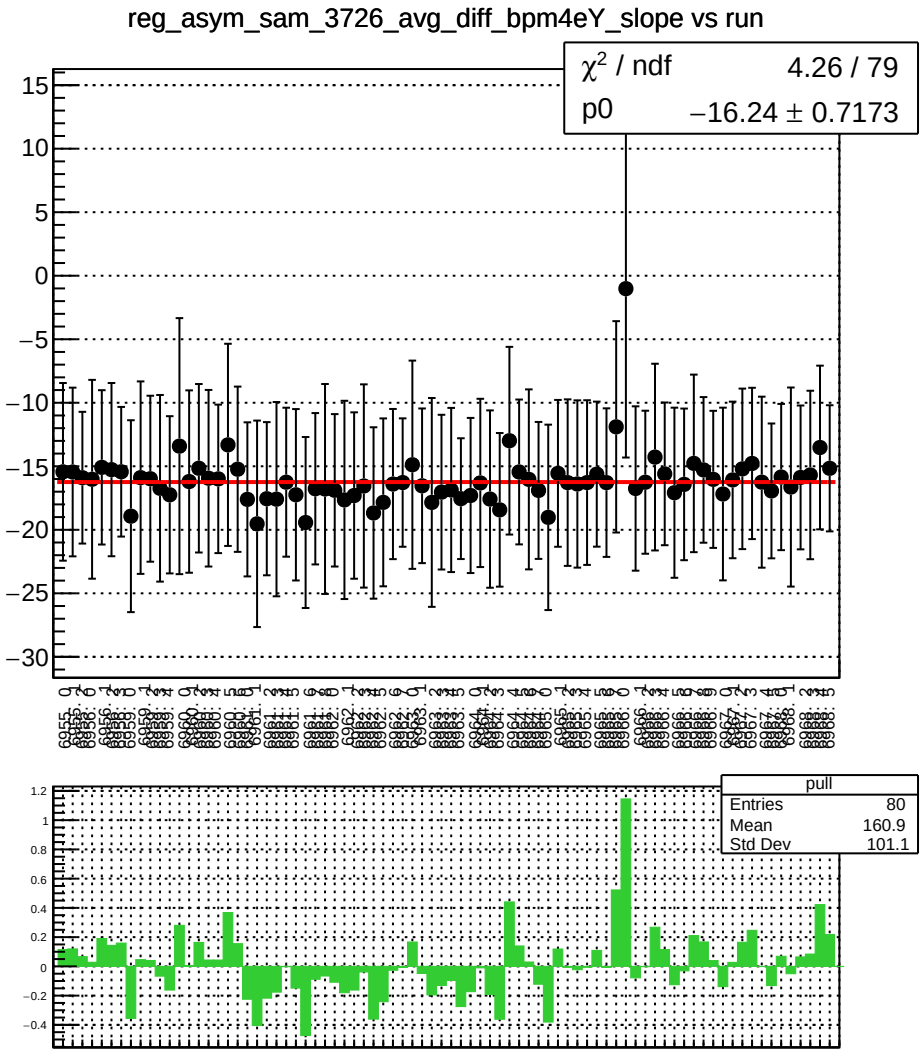

pull1D
Entries 80
Mean −0.006791
Std Dev 0.3085

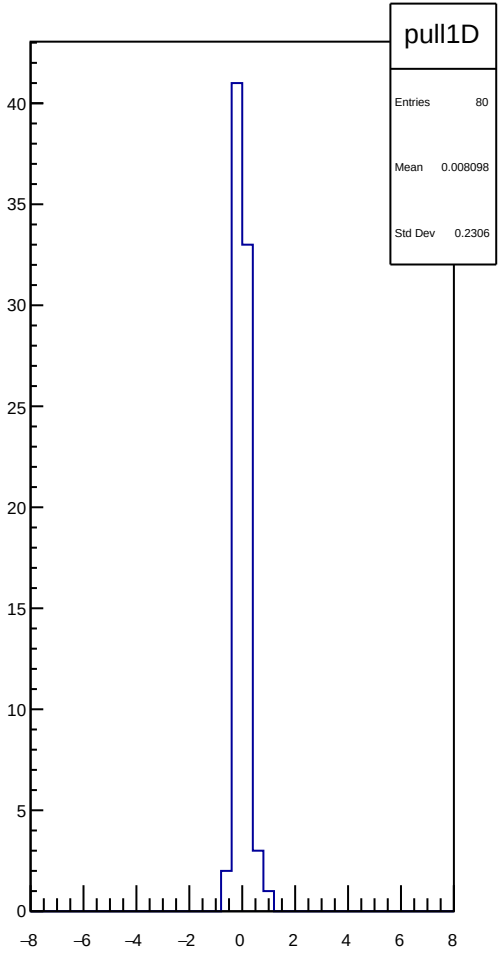

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.975 / 79
p0 2.795 ± 0.629
pull
Entries 80
Mean 52.75
Std Dev 39.67

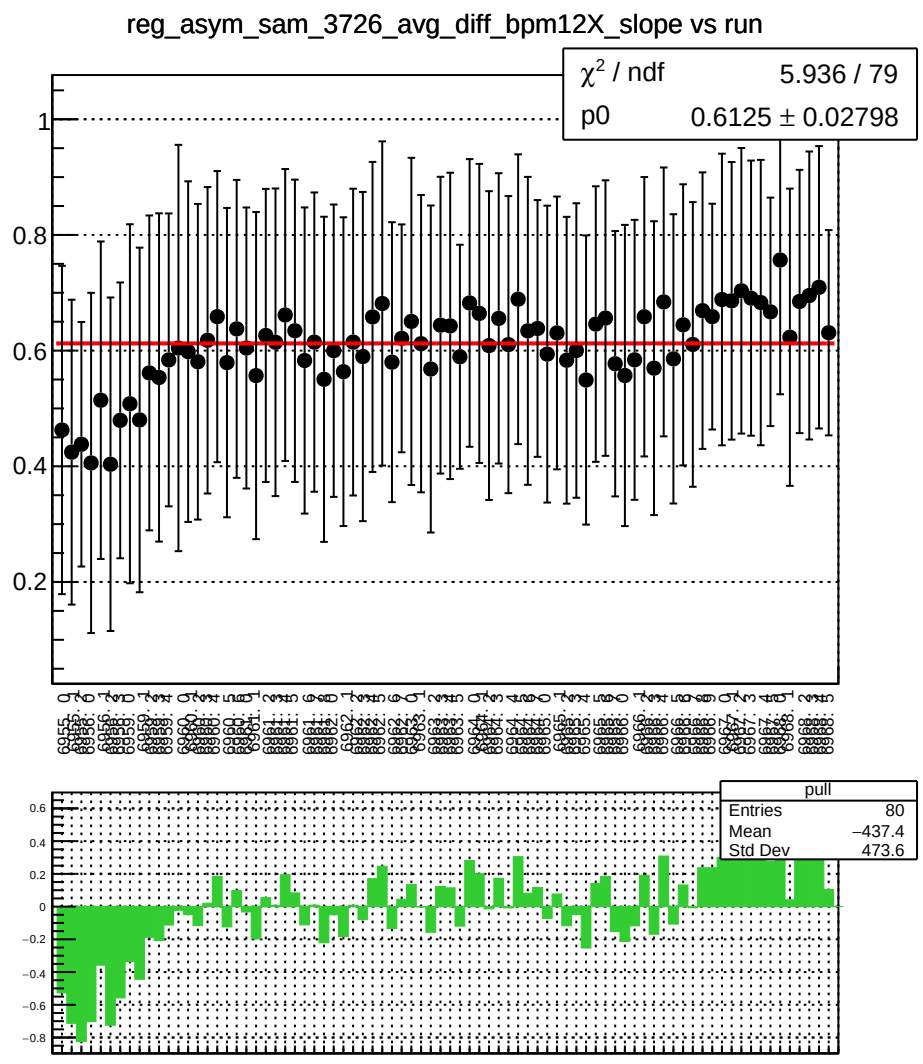

pull1D
Entries 80
Mean −0.02057
Std Dev 0.2219

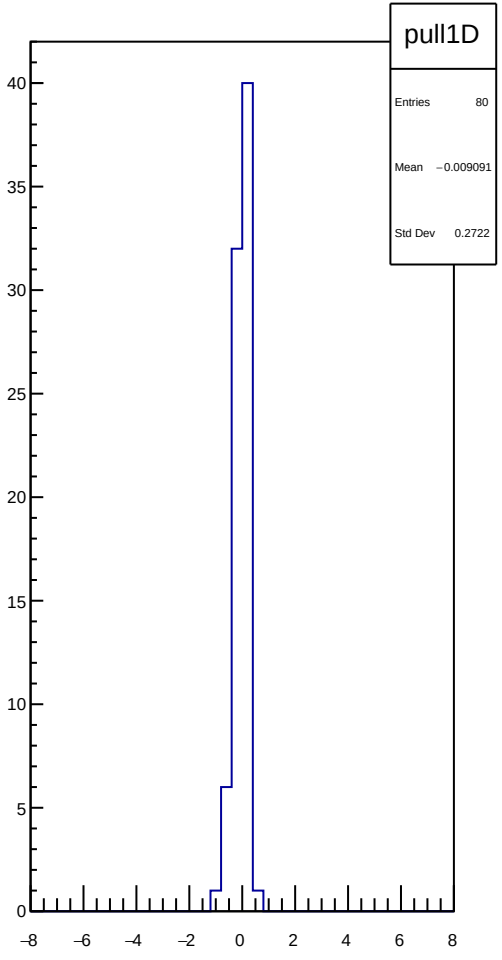

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.68 / 79
p0 −60.05 ± 0.8493
pull
Entries 80
Mean 589.7
Std Dev 541.1

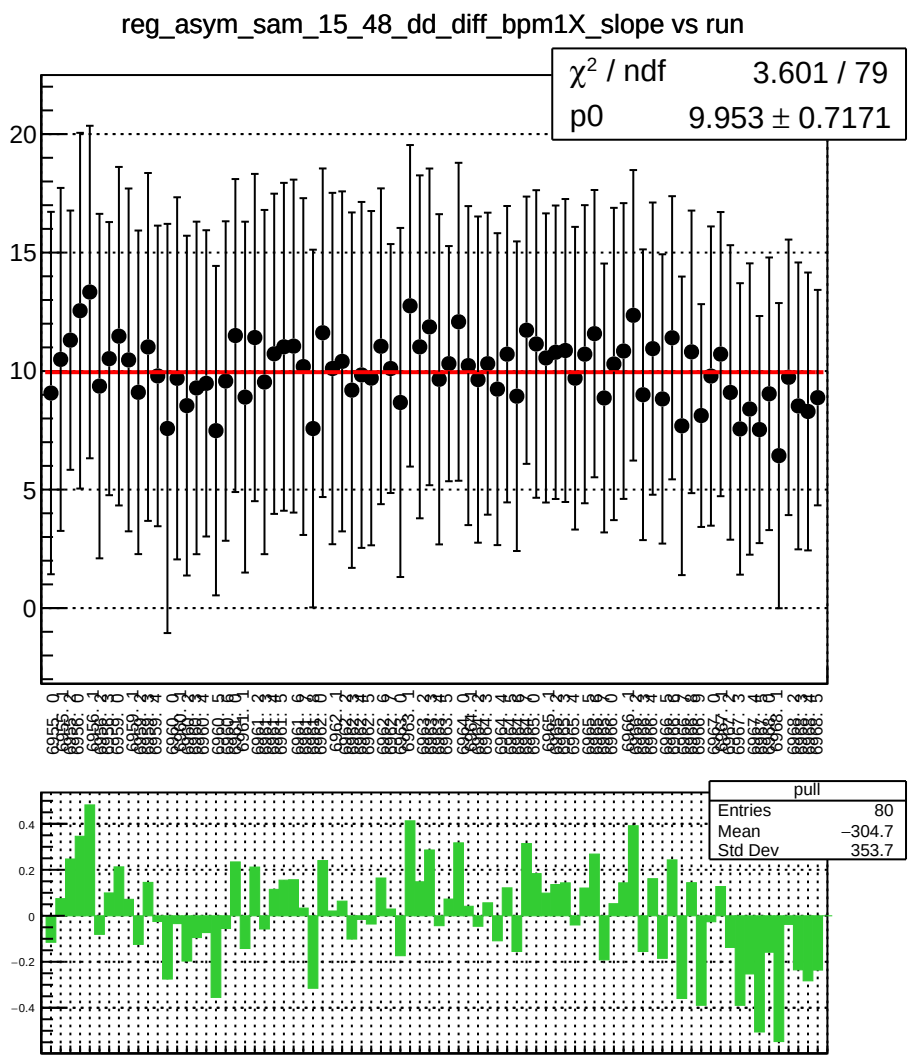

pull1D
Entries 80
Mean −0.003395
Std Dev 0.3654

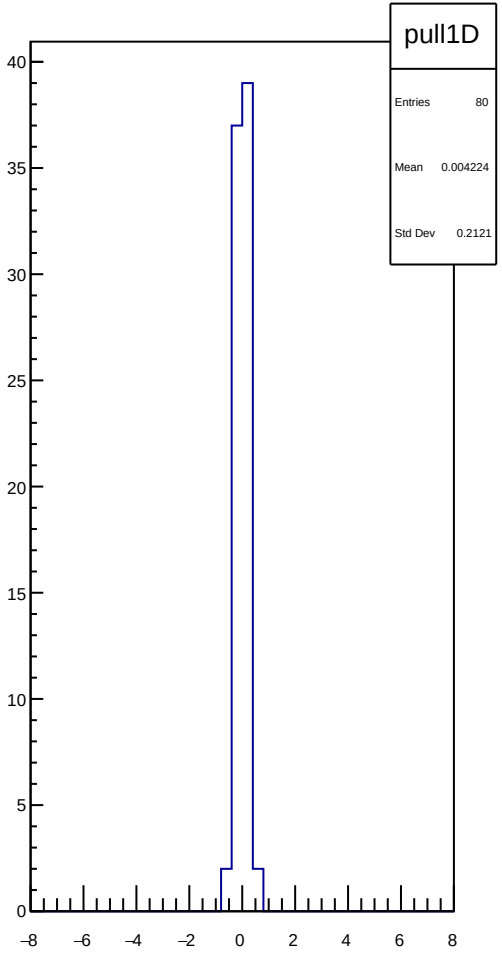

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.26 / 79
p0 −16.24 ± 0.7173
pull
Entries 80
Mean 160.9
Std Dev 101.1

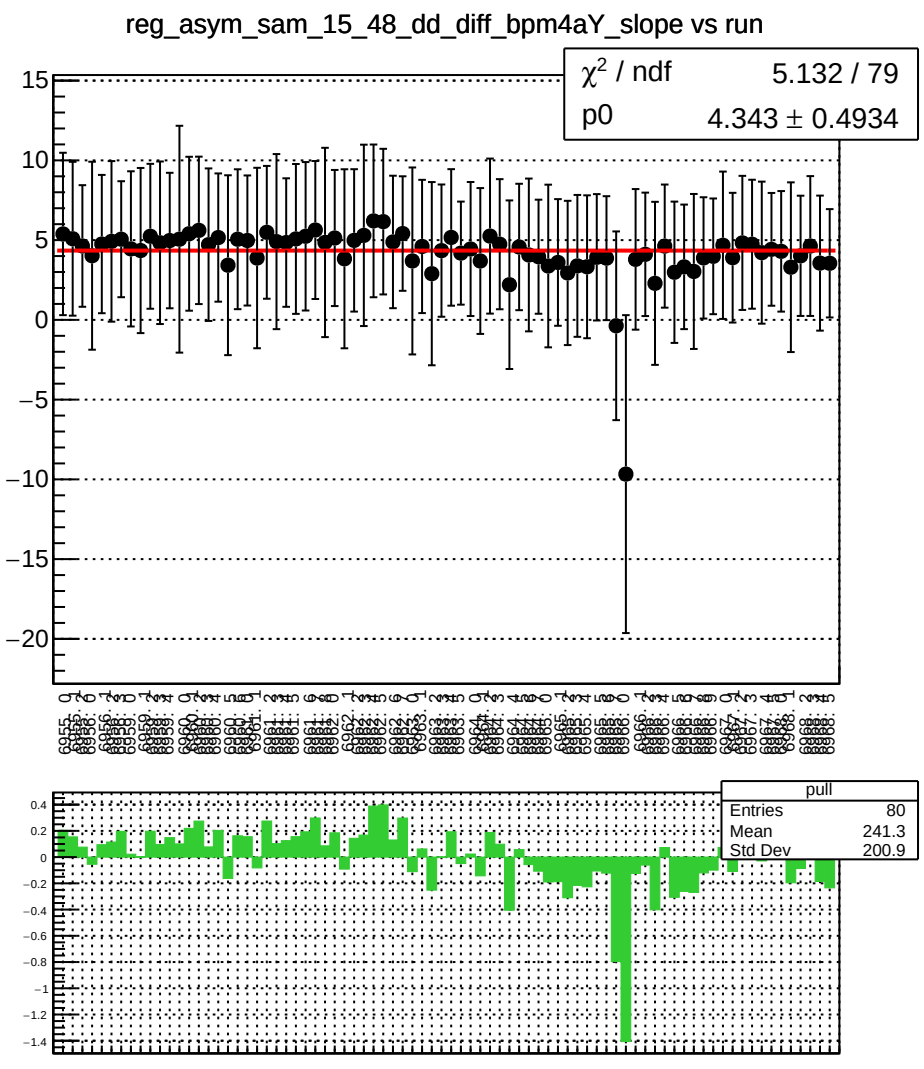

pull1D
Entries 80
Mean 0.008098
Std Dev 0.2306

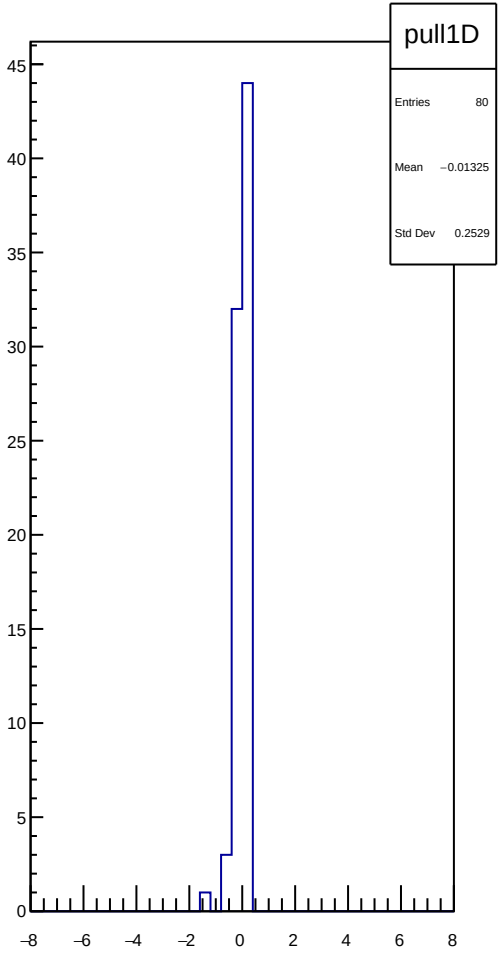

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 5.936 / 79
p0 0.6125 ± 0.02798
pull
Entries 80
Mean −437.4
Std Dev 473.6

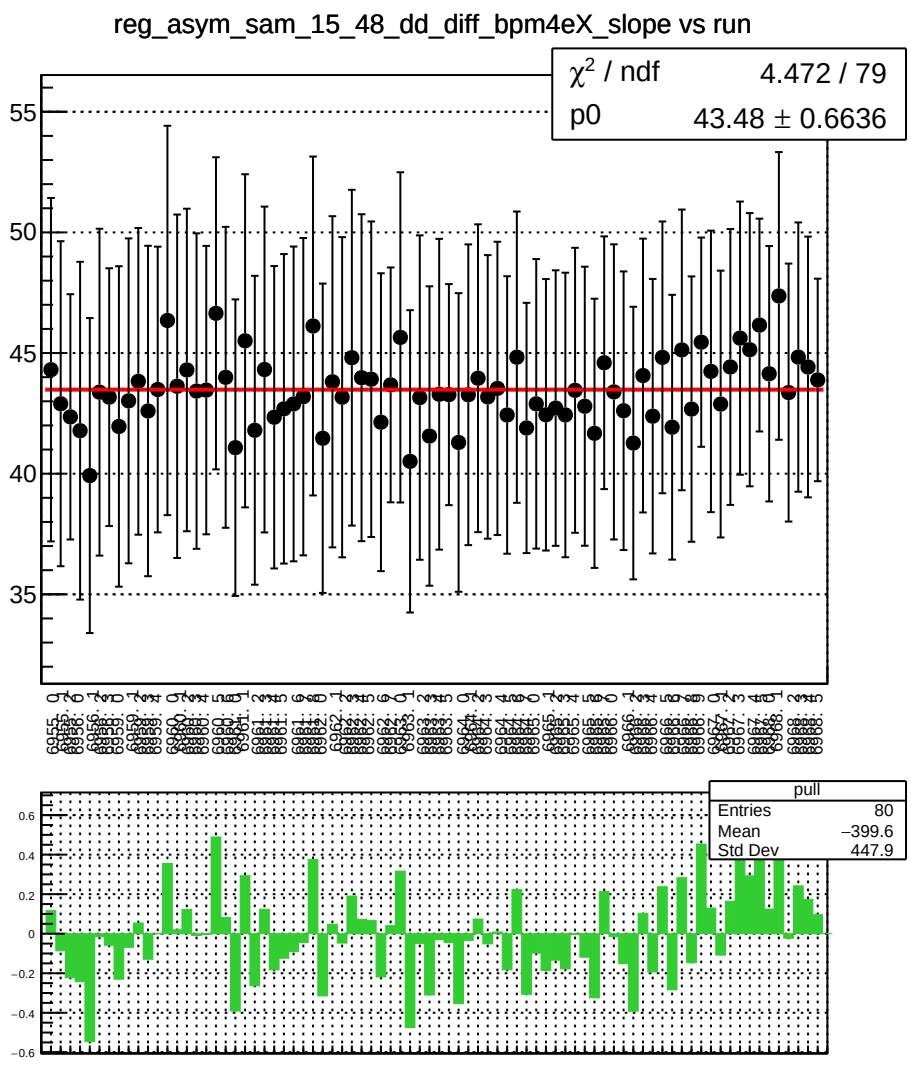

pull1D
Entries 80
Mean −0.009091
Std Dev 0.2722

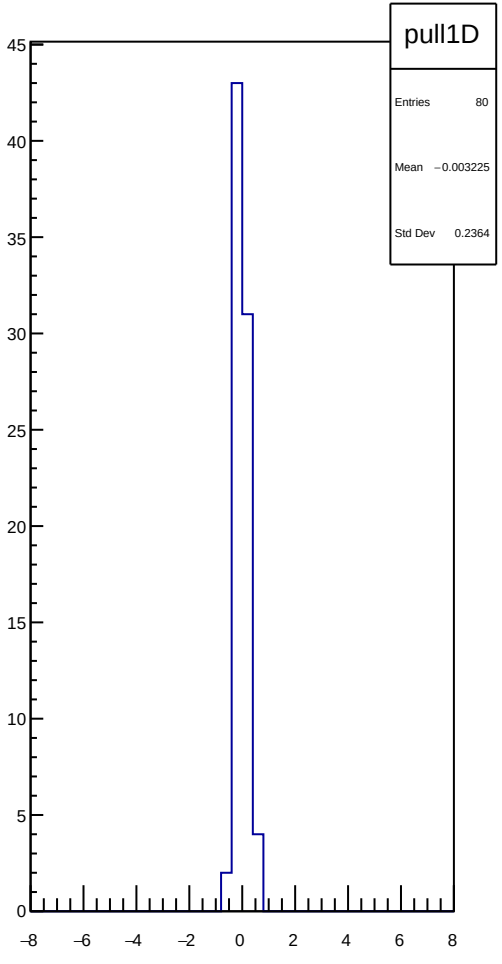

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.601 / 79
p0 9.953 ± 0.7171
pull
Entries 80
Mean −304.7
Std Dev 353.7

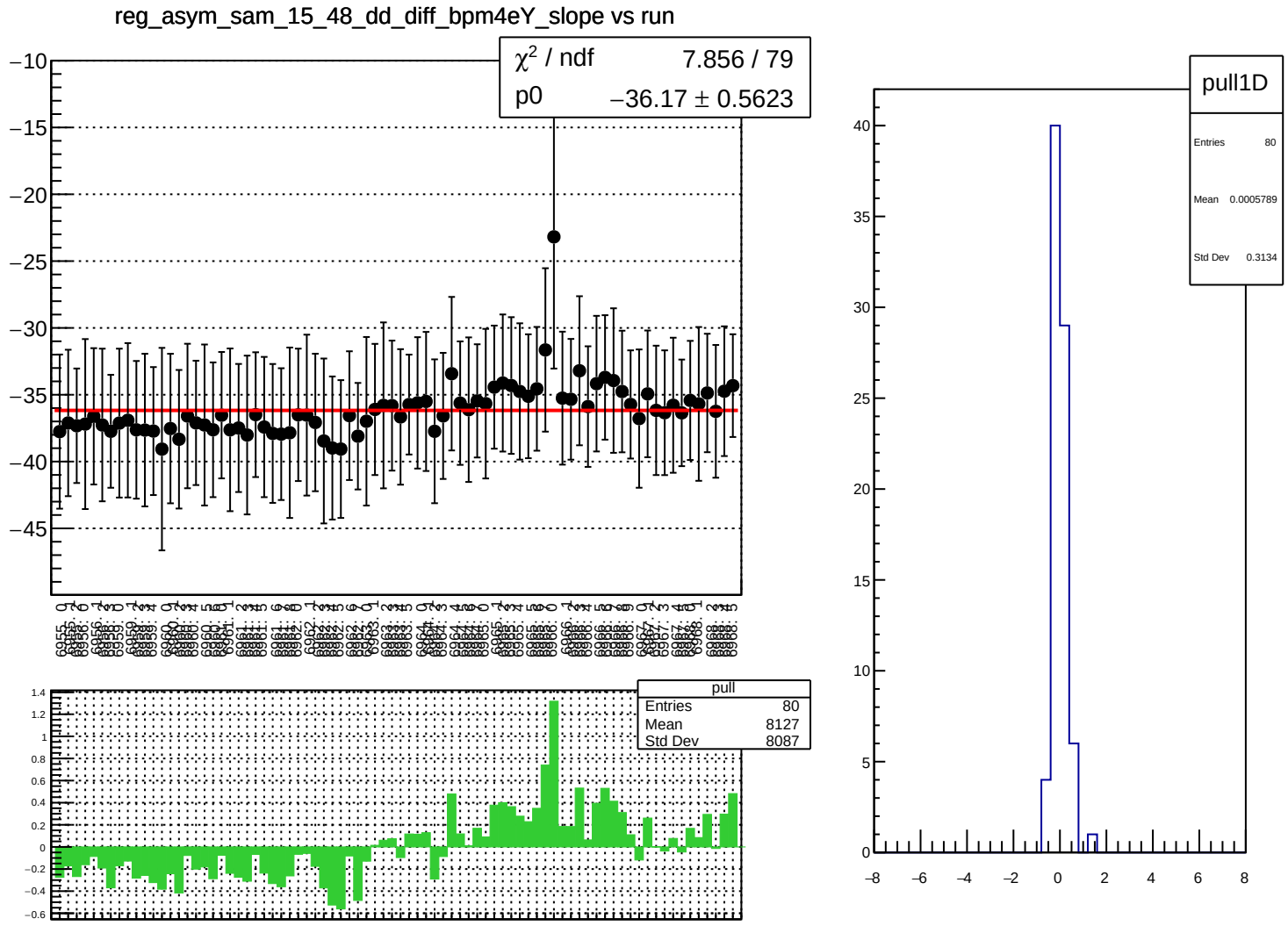

pull1D
Entries 80
Mean 0.004224
Std Dev 0.2121

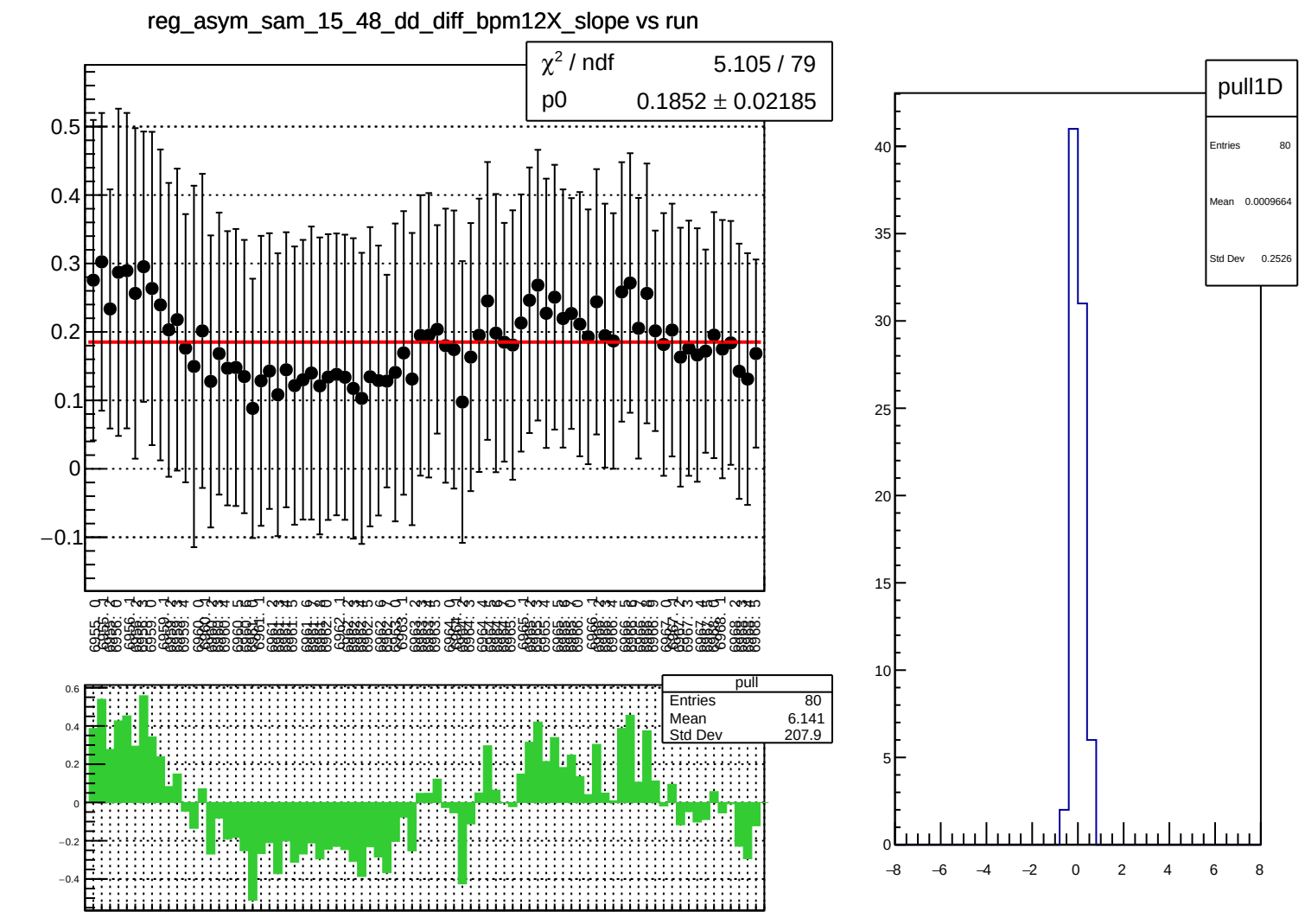

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.132 / 79
p0 4.343 ± 0.4934
pull
Entries 80
Mean 241.3
Std Dev 200.9

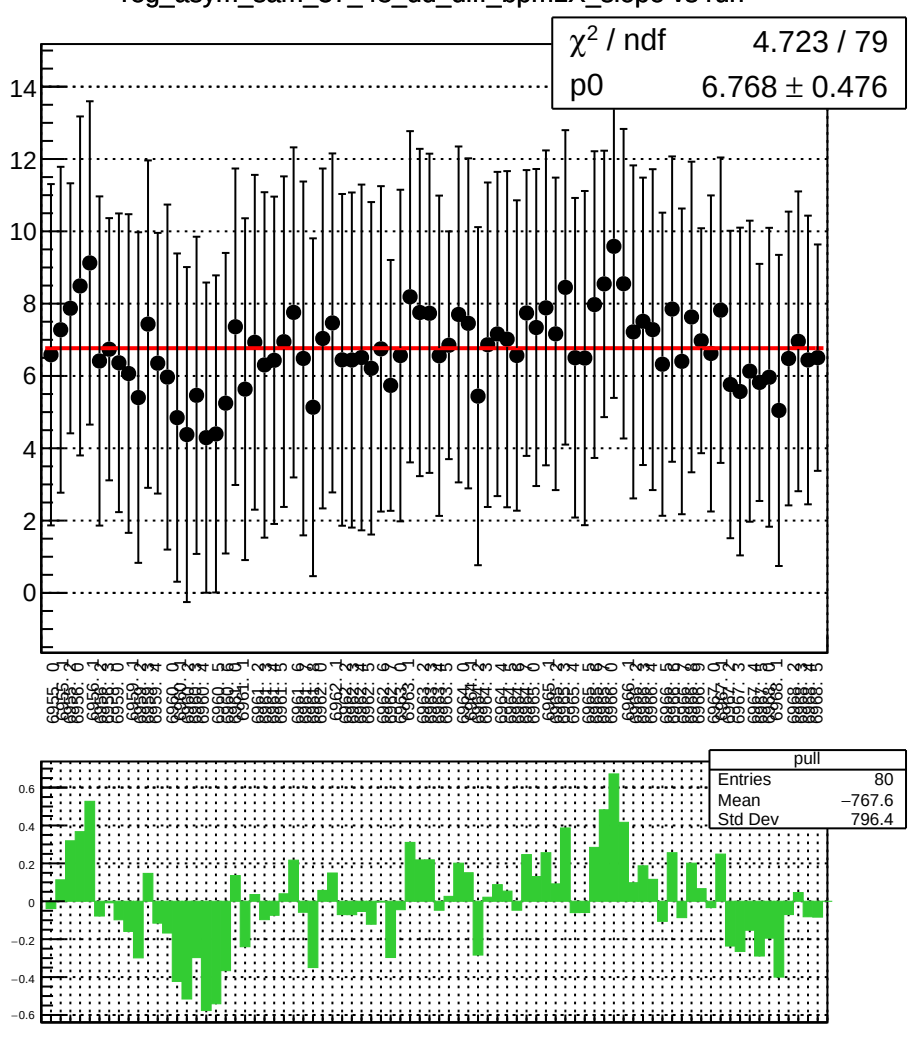

pull1D
Entries 80
Mean −0.01325
Std Dev 0.2529

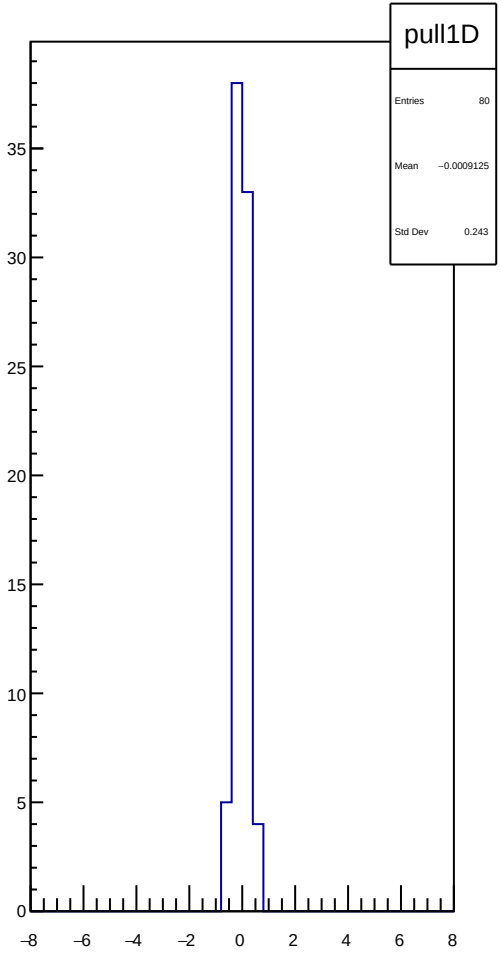

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.472 / 79
p0 43.48 ± 0.6636
pull
Entries 80
Mean −399.6
Std Dev 447.9

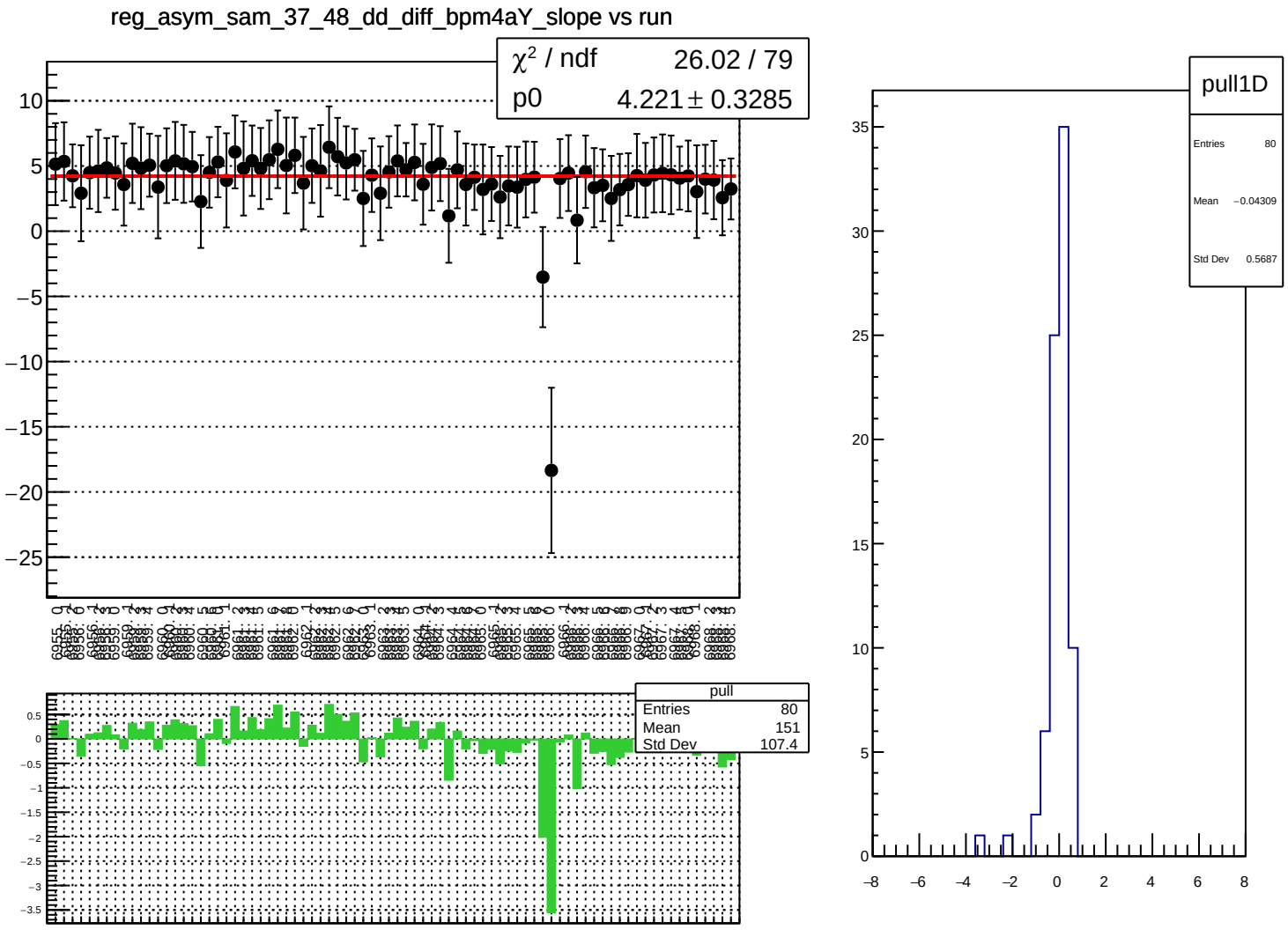

pull1D
Entries 80
Mean −0.003225
Std Dev 0.2364

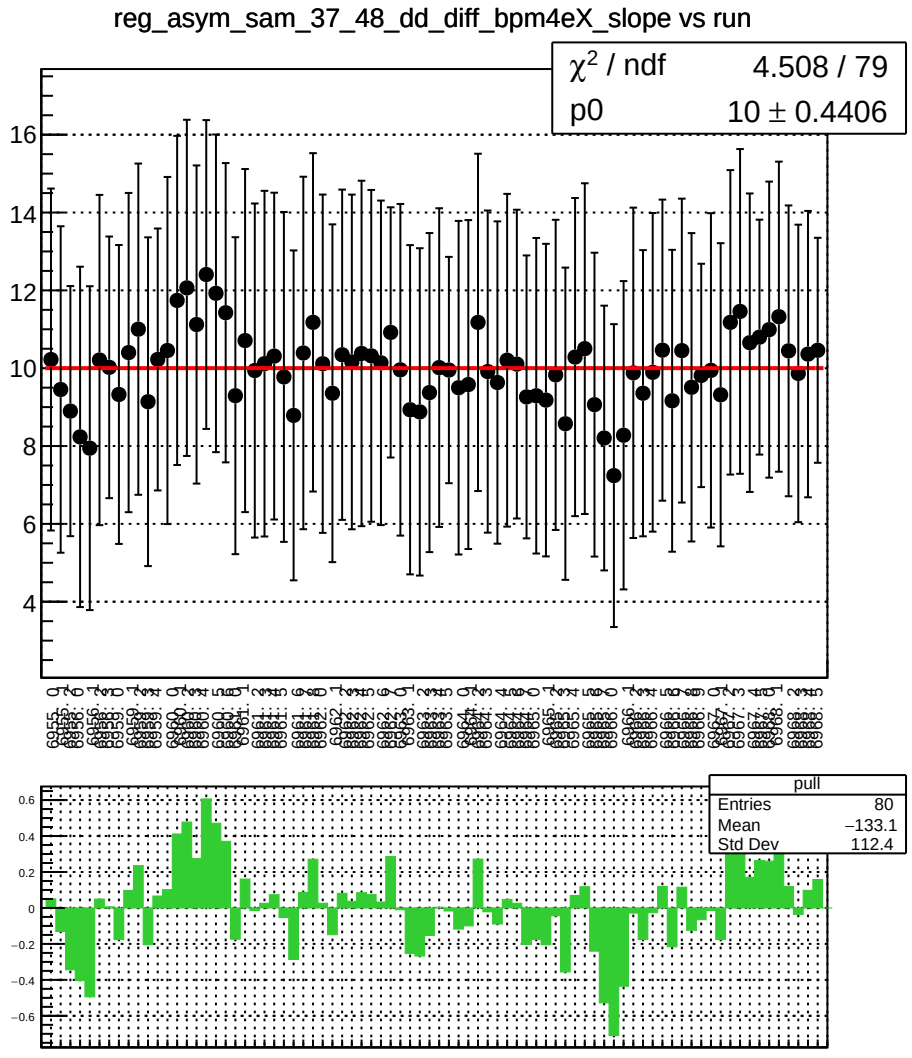

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.856 / 79
p0 −36.17 ± 0.5623
pull
Entries 80
Mean 8127
Std Dev 8087
pull1D
Entries 80
Mean 0.0005789
Std Dev 0.3134

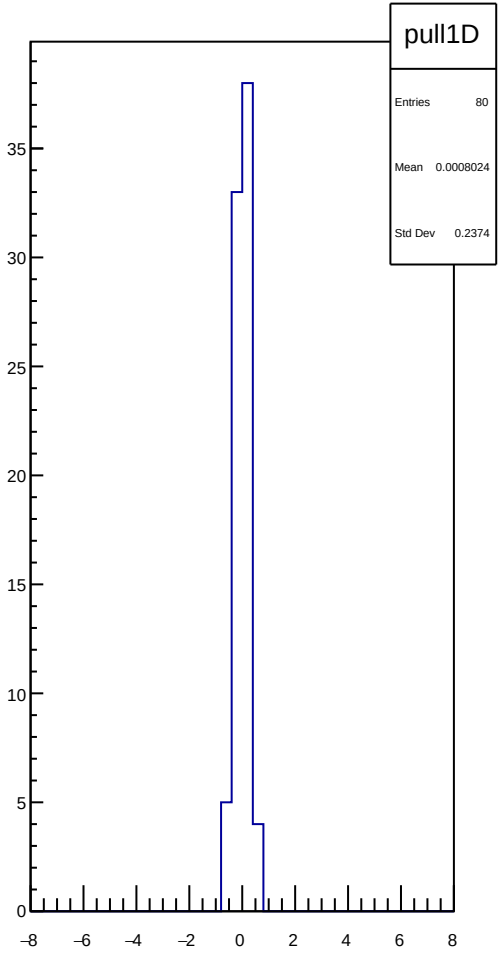

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 5.105 / 79
p0 0.1852 ± 0.02185
pull
Entries 80
Mean 6.141
Std Dev 207.9
pull1D
Entries 80
Mean 0.0009664
Std Dev 0.2526

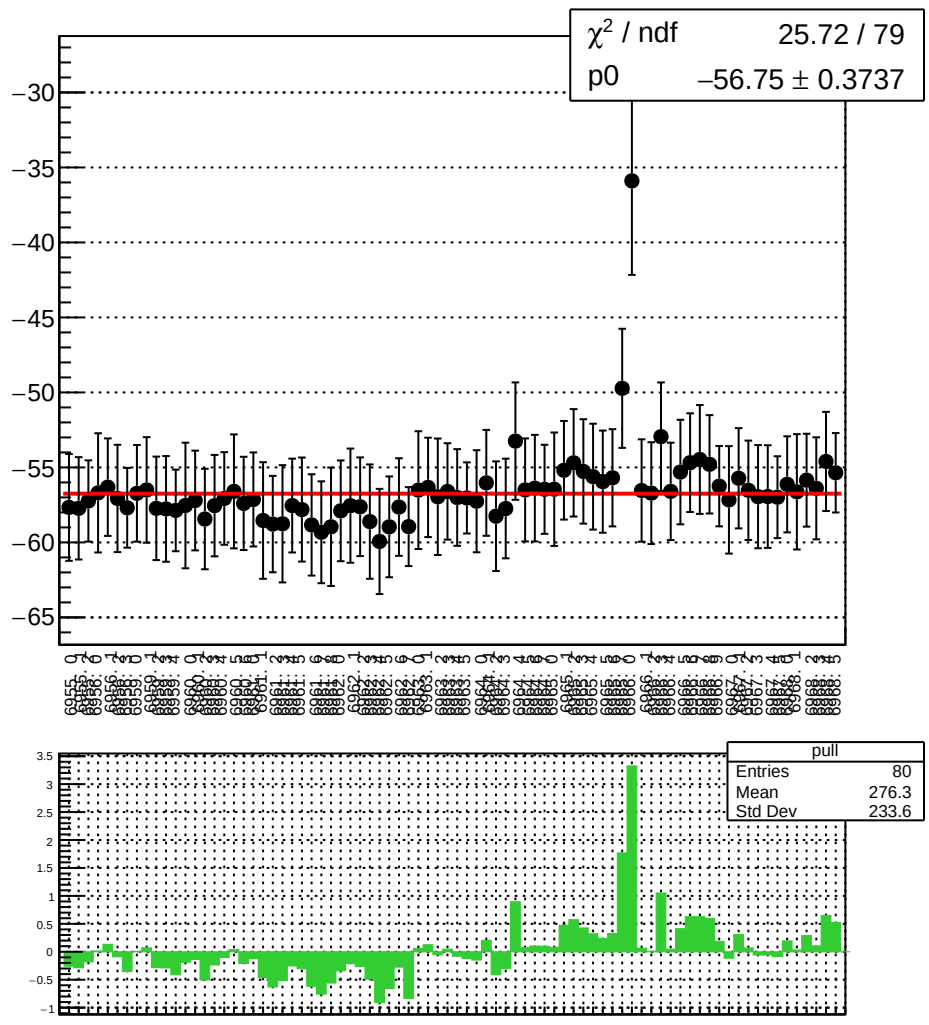

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.723 / 79
p0 6.768 ± 0.476
pull
Entries 80
Mean −767.6
Std Dev 796.4

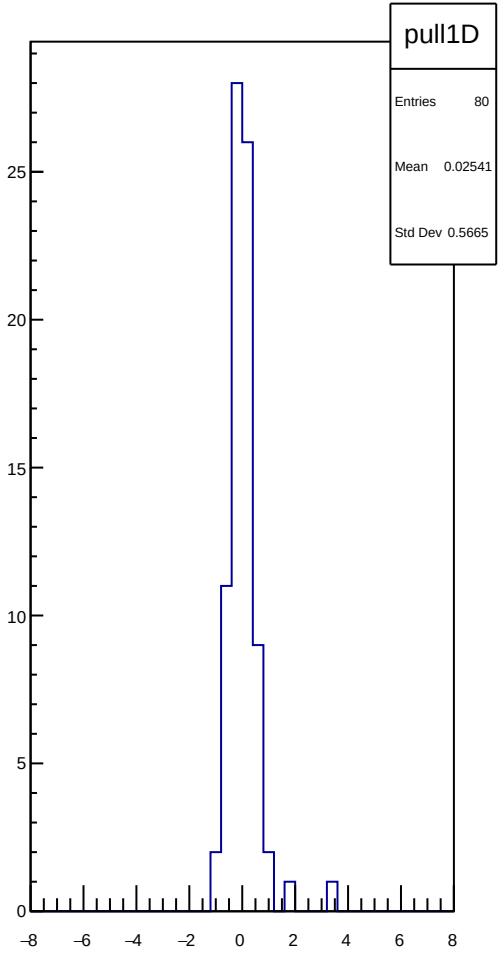

pull1D
Entries 80
Mean −0.0009125
Std Dev 0.243

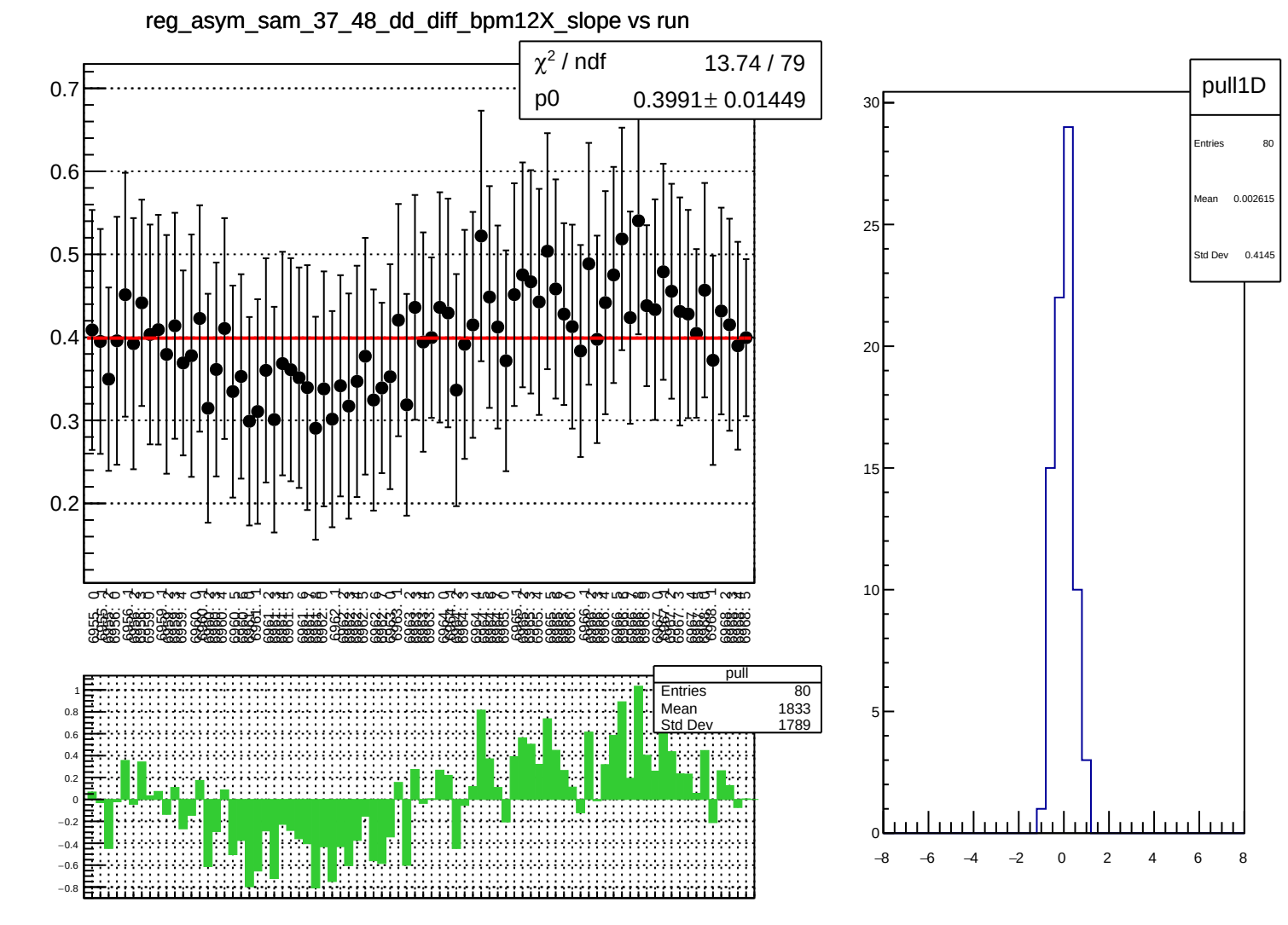

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.02 / 79
p0 4.221 ± 0.3285
pull
Entries 80
Mean 151
Std Dev 107.4
pull1D
Entries 80
Mean −0.04309
Std Dev 0.5687

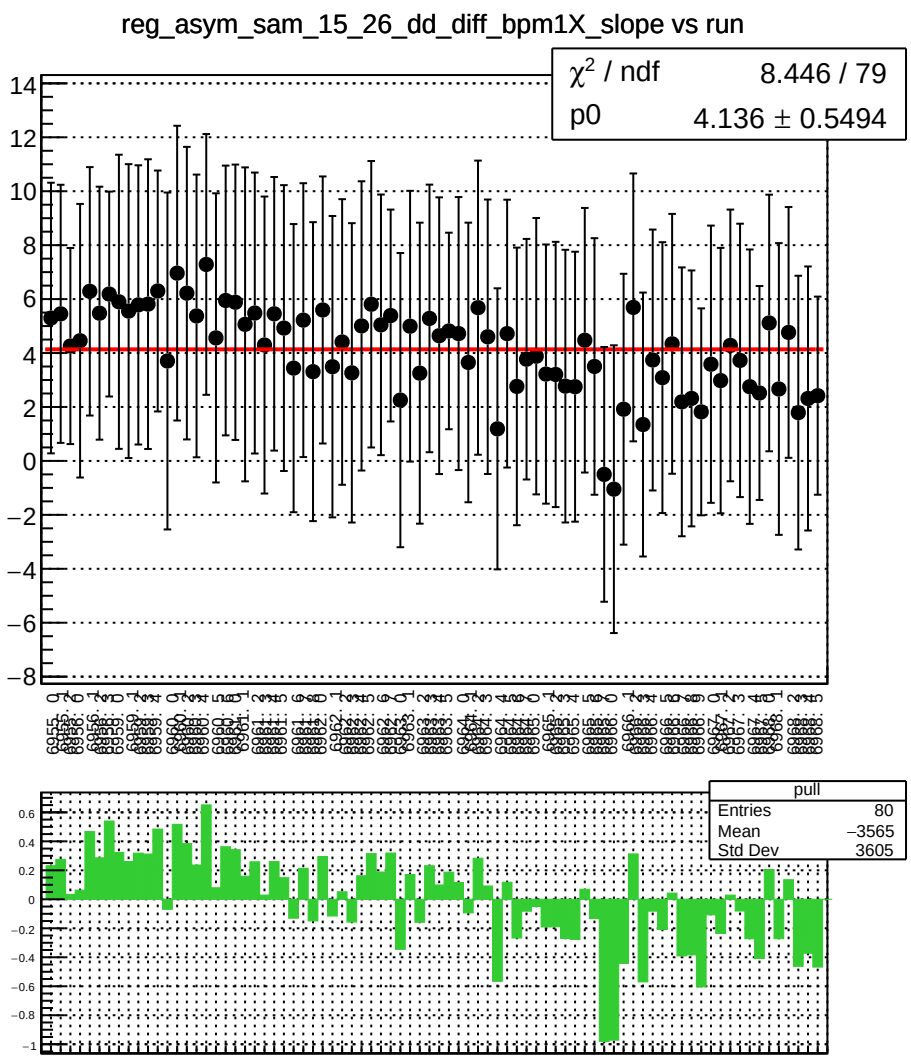

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.508 / 79
p0 10 ± 0.4406
pull
Entries 80
Mean −133.1
Std Dev 112.4

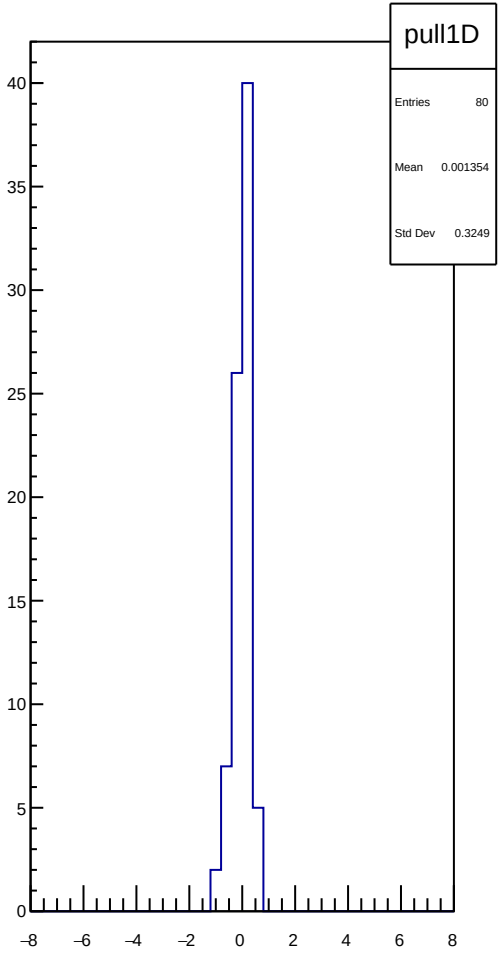

pull1D
Entries 80
Mean 0.0008024
Std Dev 0.2374

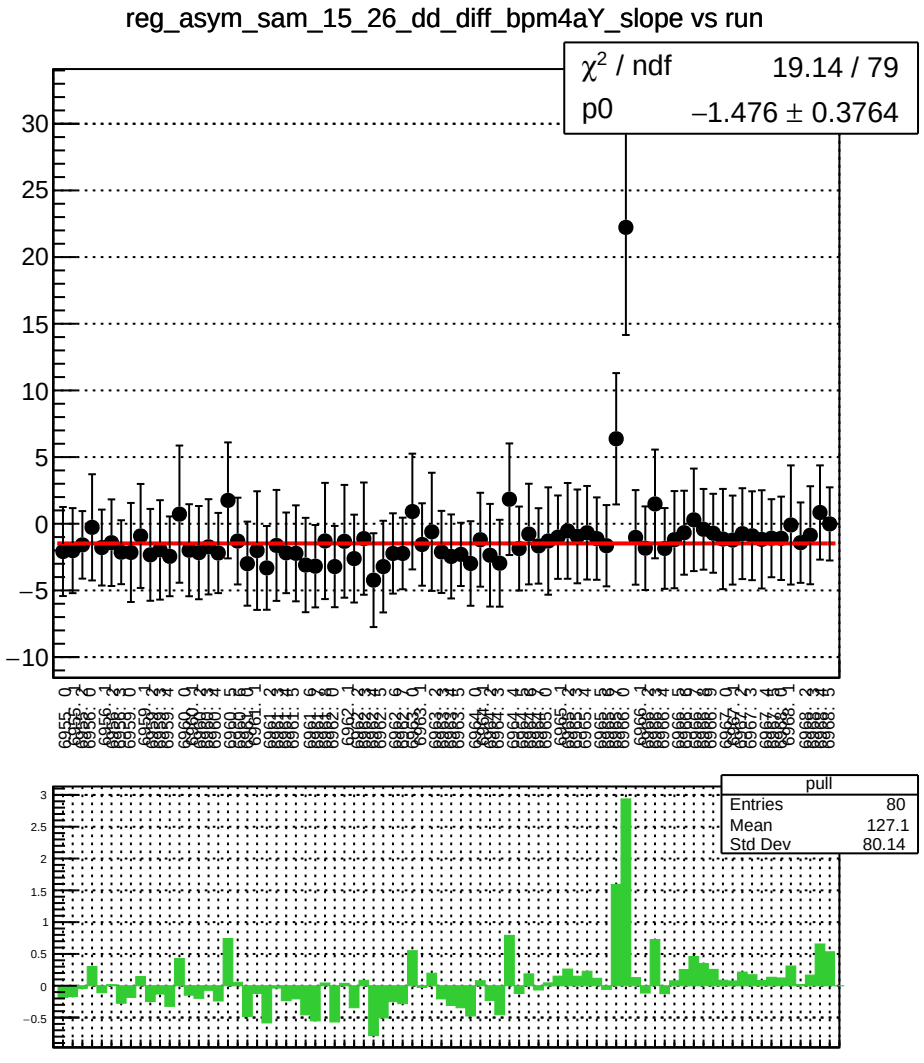

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.72 / 79
p0 −56.75 ± 0.3737
pull
Entries 80
Mean 276.3
Std Dev 233.6

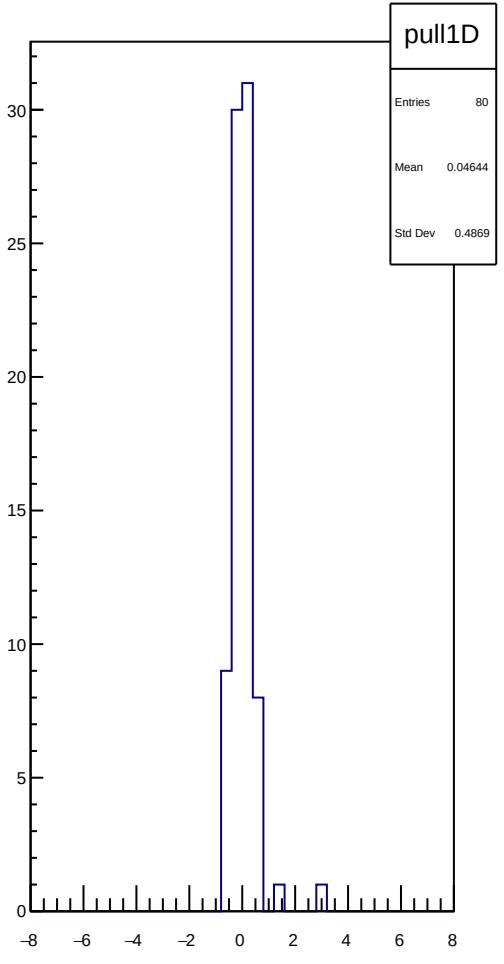

pull1D
Entries 80
Mean 0.02541
Std Dev 0.5665

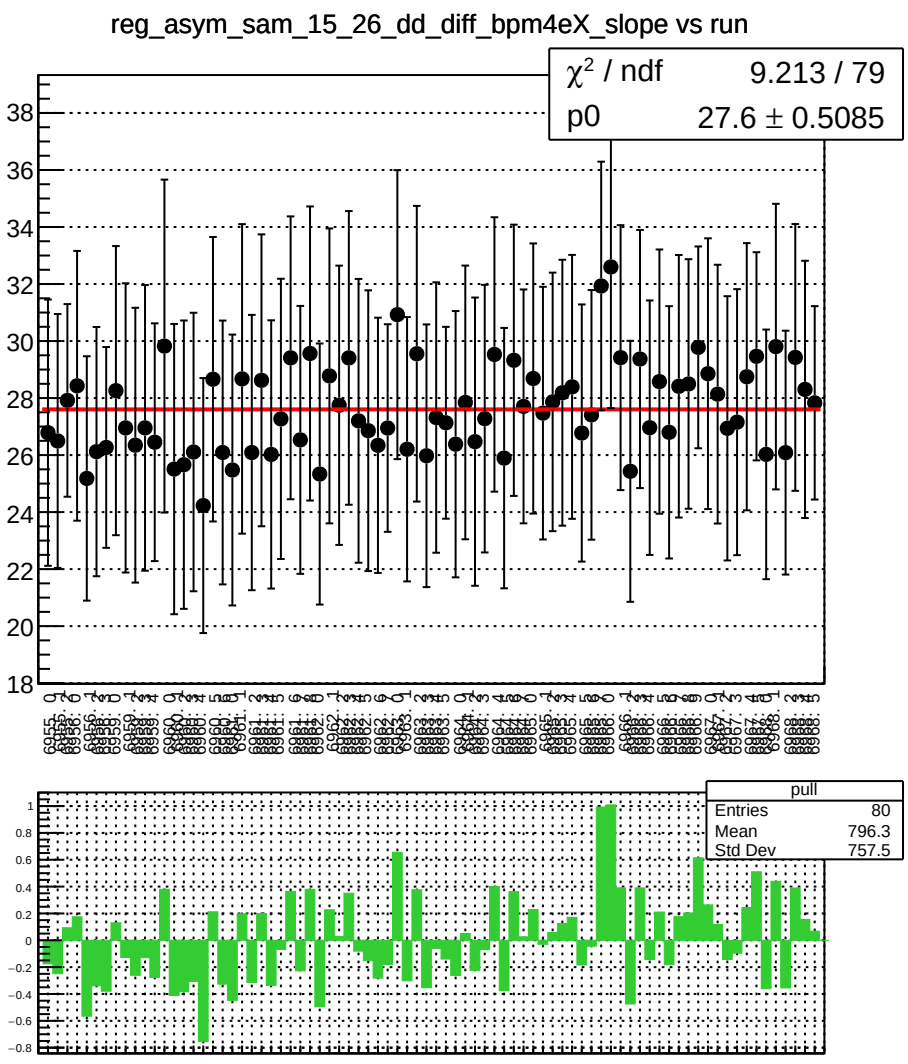

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 13.74 / 79
p0 0.3991± 0.01449
pull
Entries 80
Mean 1833
Std Dev 1789
pull1D
Entries 80
Mean 0.002615
Std Dev 0.4145

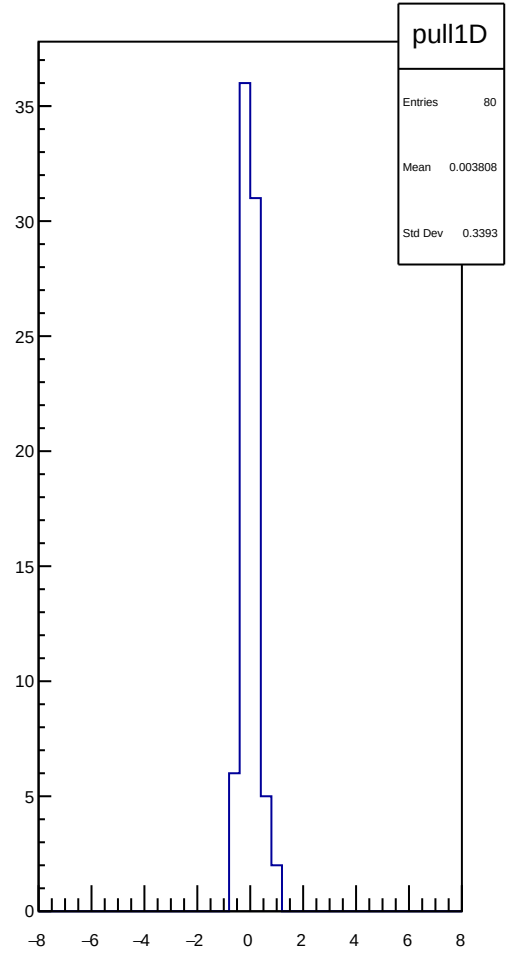

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 8.446 / 79
p0 4.136 ± 0.5494
pull
Entries 80
Mean −3565
Std Dev 3605

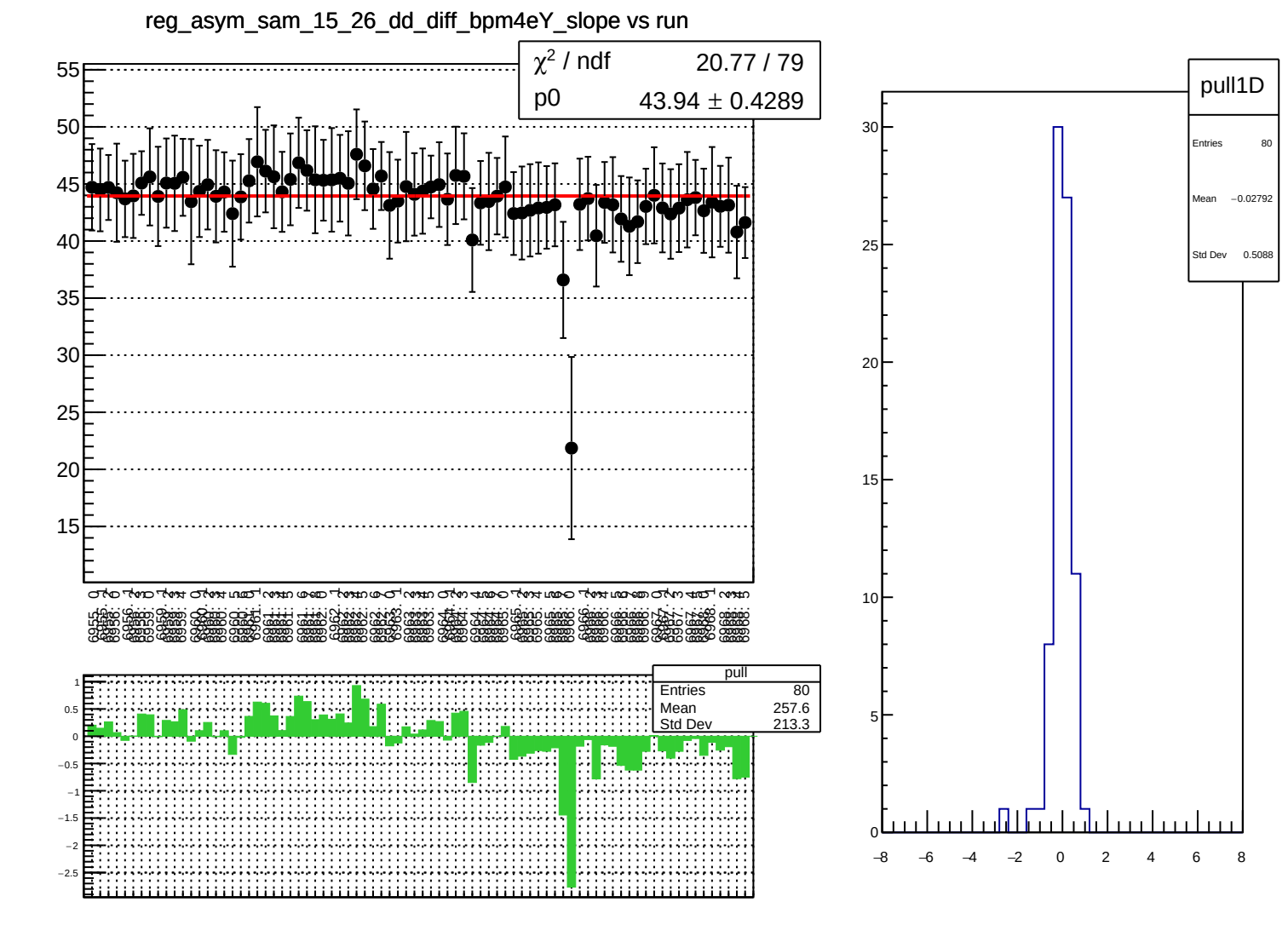

pull1D
Entries 80
Mean 0.001354
Std Dev 0.3249

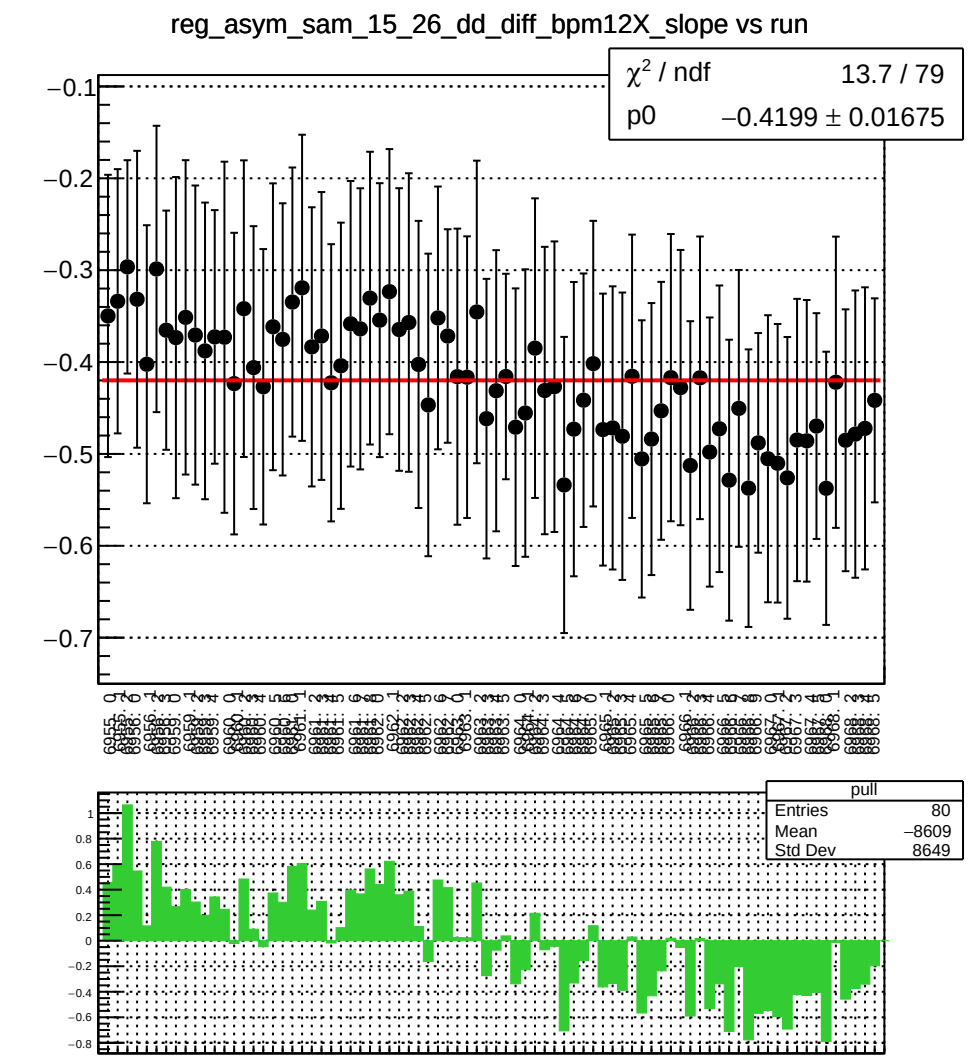

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.14 / 79
p0 −1.476 ± 0.3764
pull
Entries 80
Mean 127.1
Std Dev 80.14

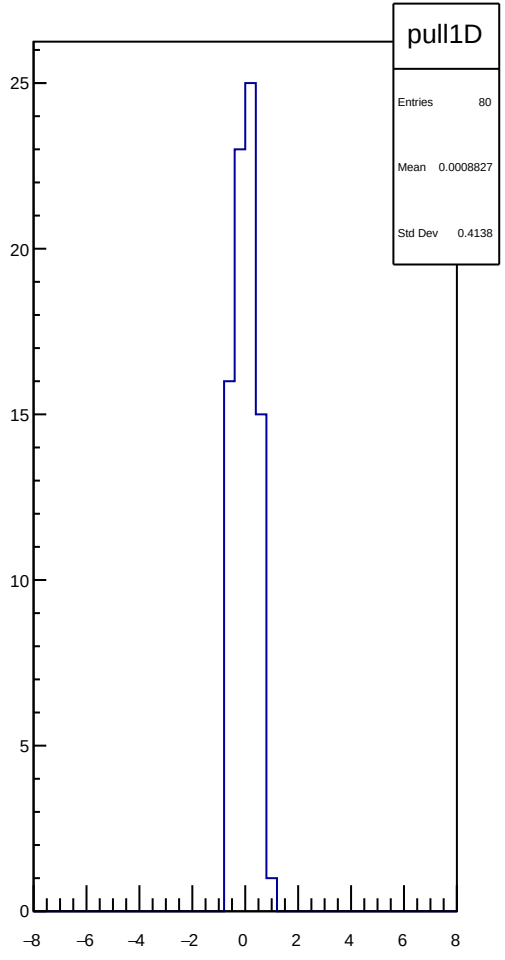

pull1D
Entries 80
Mean 0.04644
Std Dev 0.4869

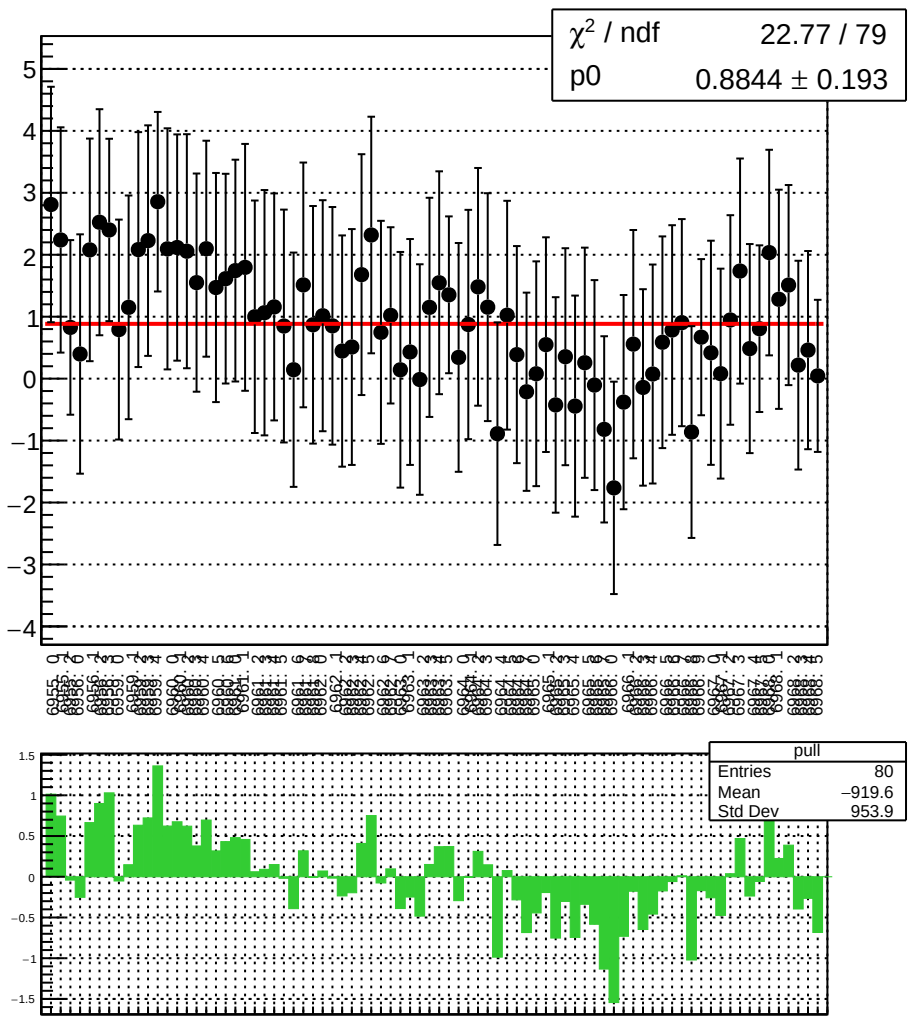

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.213 / 79
p0 27.6 ± 0.5085
pull
Entries 80
Mean 796.3
Std Dev 757.5

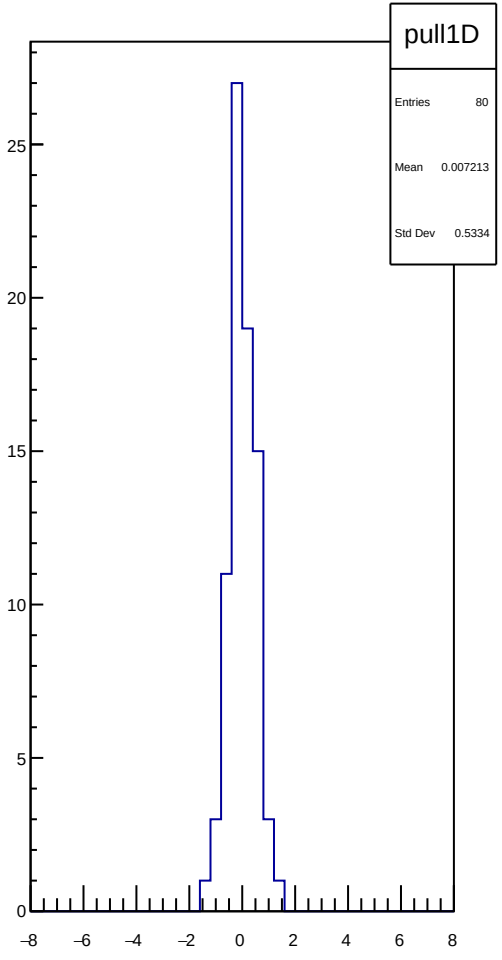

pull1D
Entries 80
Mean 0.003808
Std Dev 0.3393

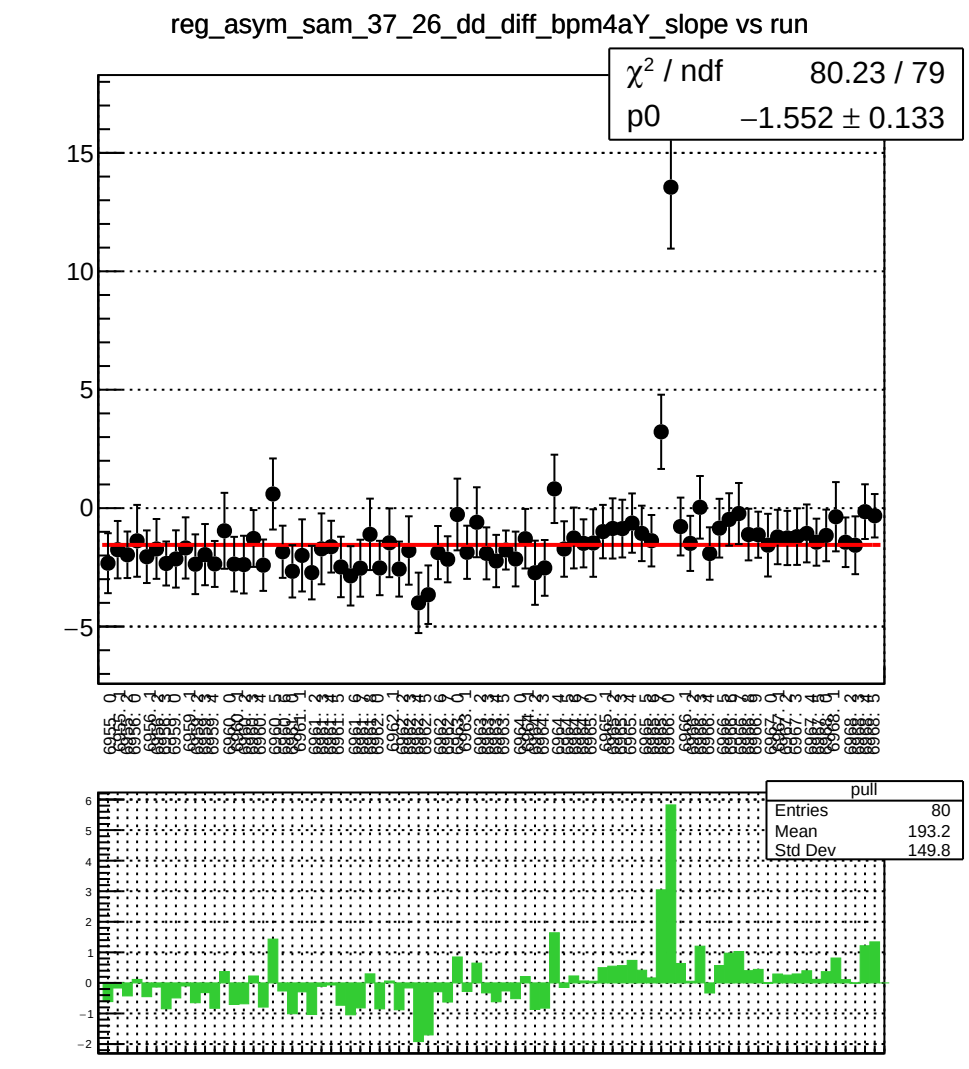

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.77 / 79
p0 43.94 ± 0.4289
pull
Entries 80
Mean 257.6
Std Dev 213.3
pull1D
Entries 80
Mean −0.02792
Std Dev 0.5088

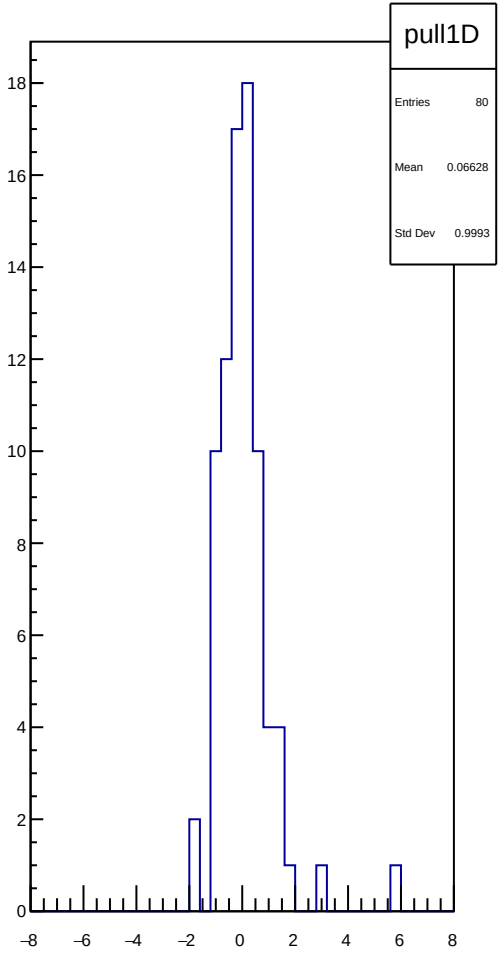

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 13.7 / 79
p0 −0.4199 ± 0.01675
pull
Entries 80
Mean −8609
Std Dev 8649

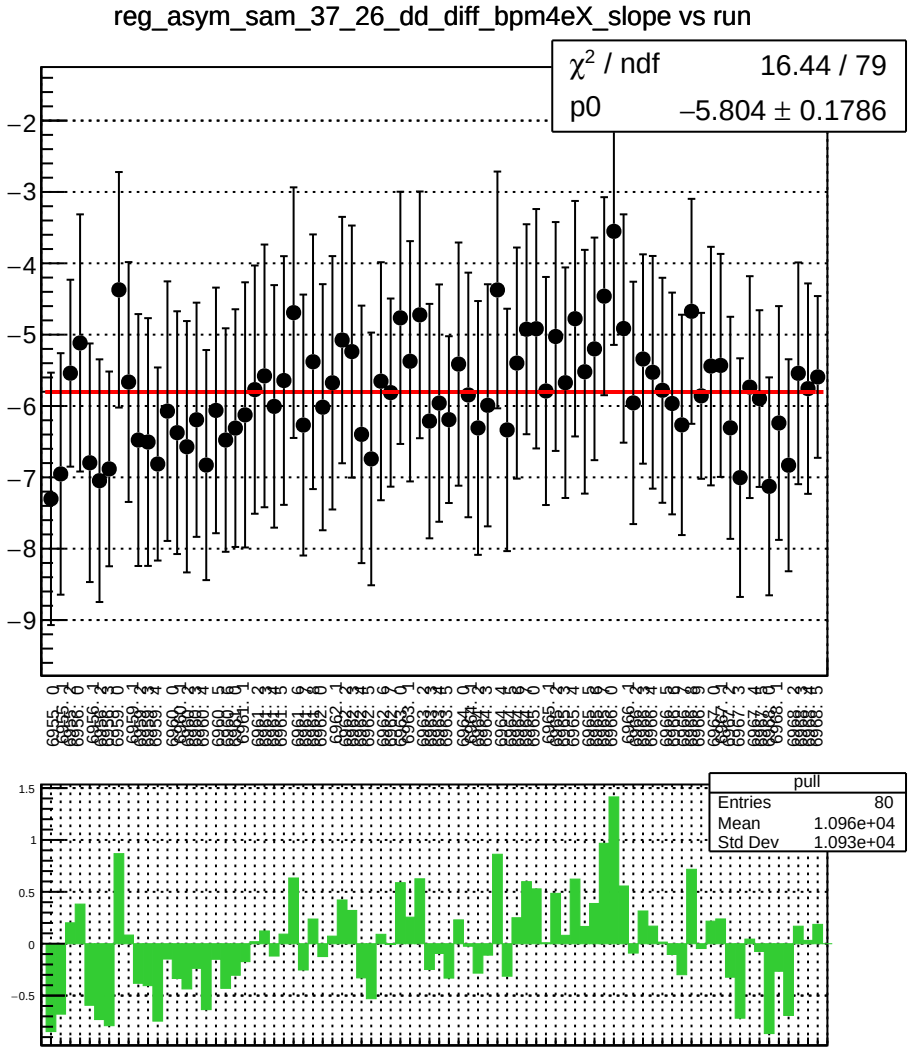

pull1D
Entries 80
Mean 0.0008827
Std Dev 0.4138

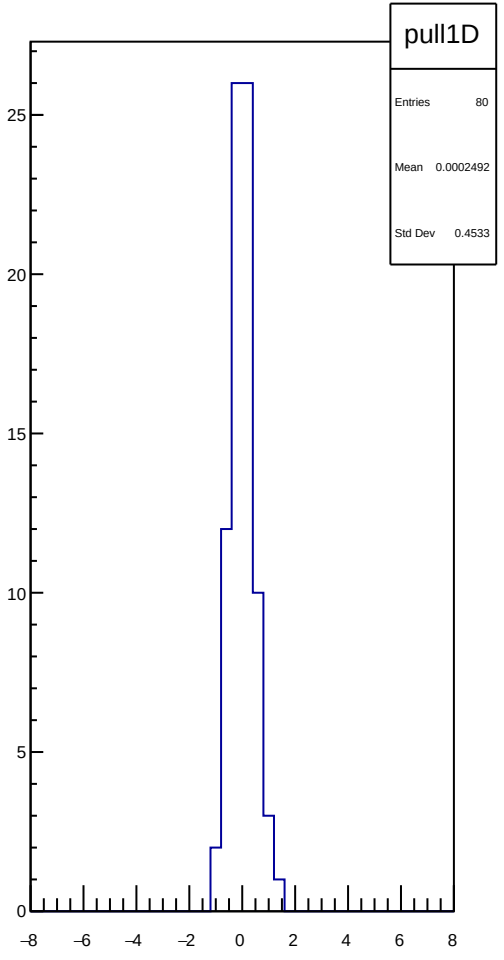

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 22.77 / 79
p0 0.8844 ± 0.193
pull
Entries 80
Mean −919.6
Std Dev 953.9

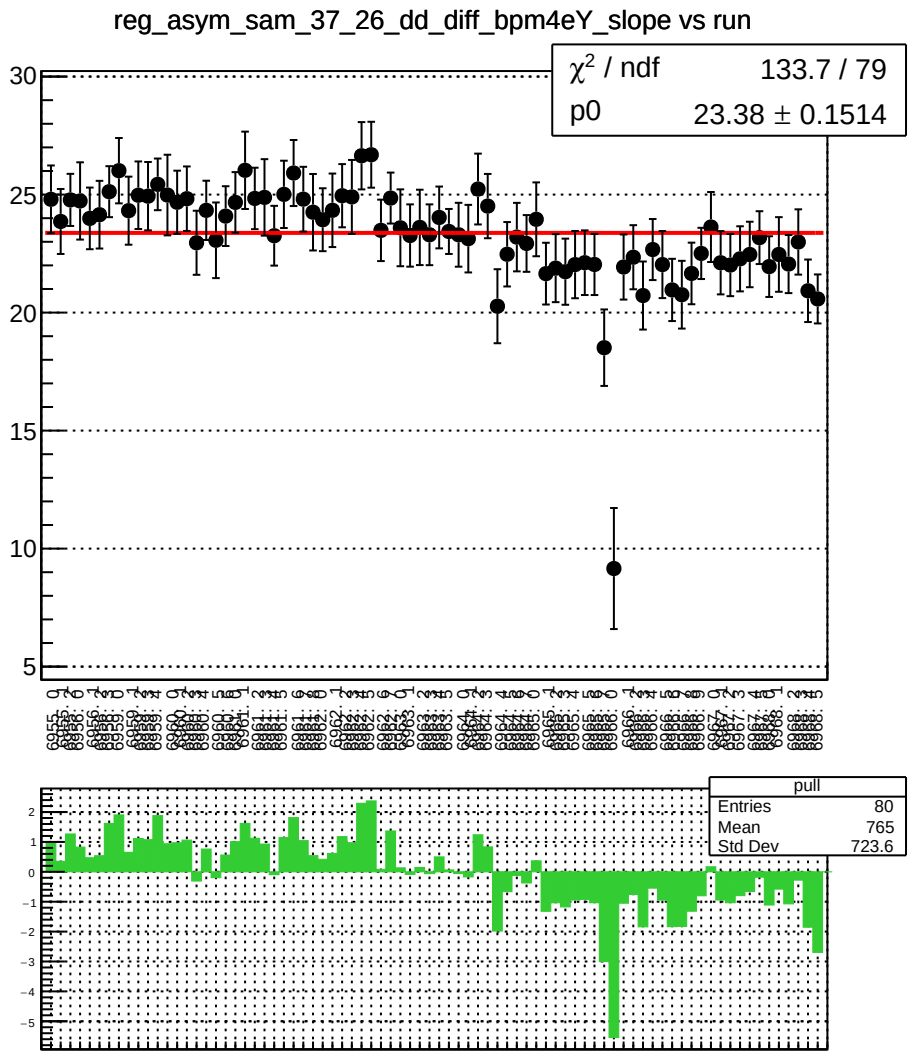

pull1D
Entries 80
Mean 0.007213
Std Dev 0.5334

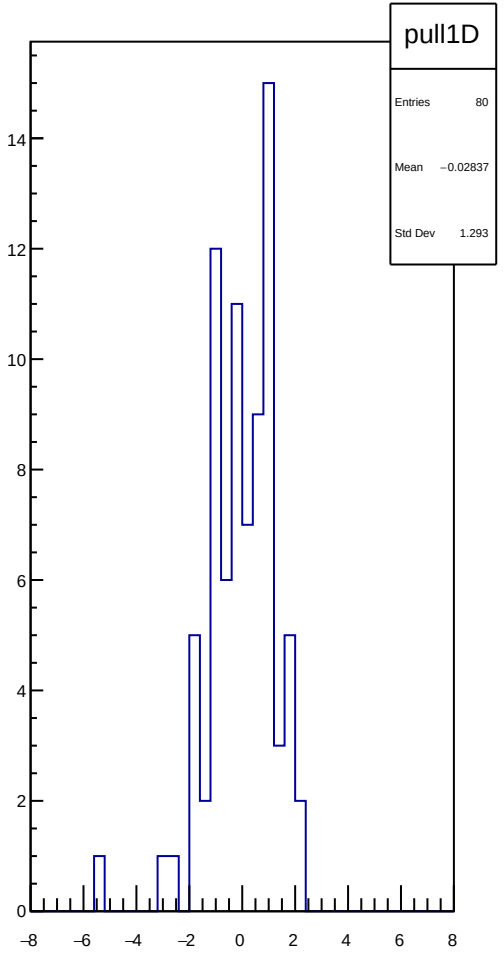

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.23 / 79
p0 −1.552 ± 0.133
pull
Entries 80
Mean 193.2
Std Dev 149.8

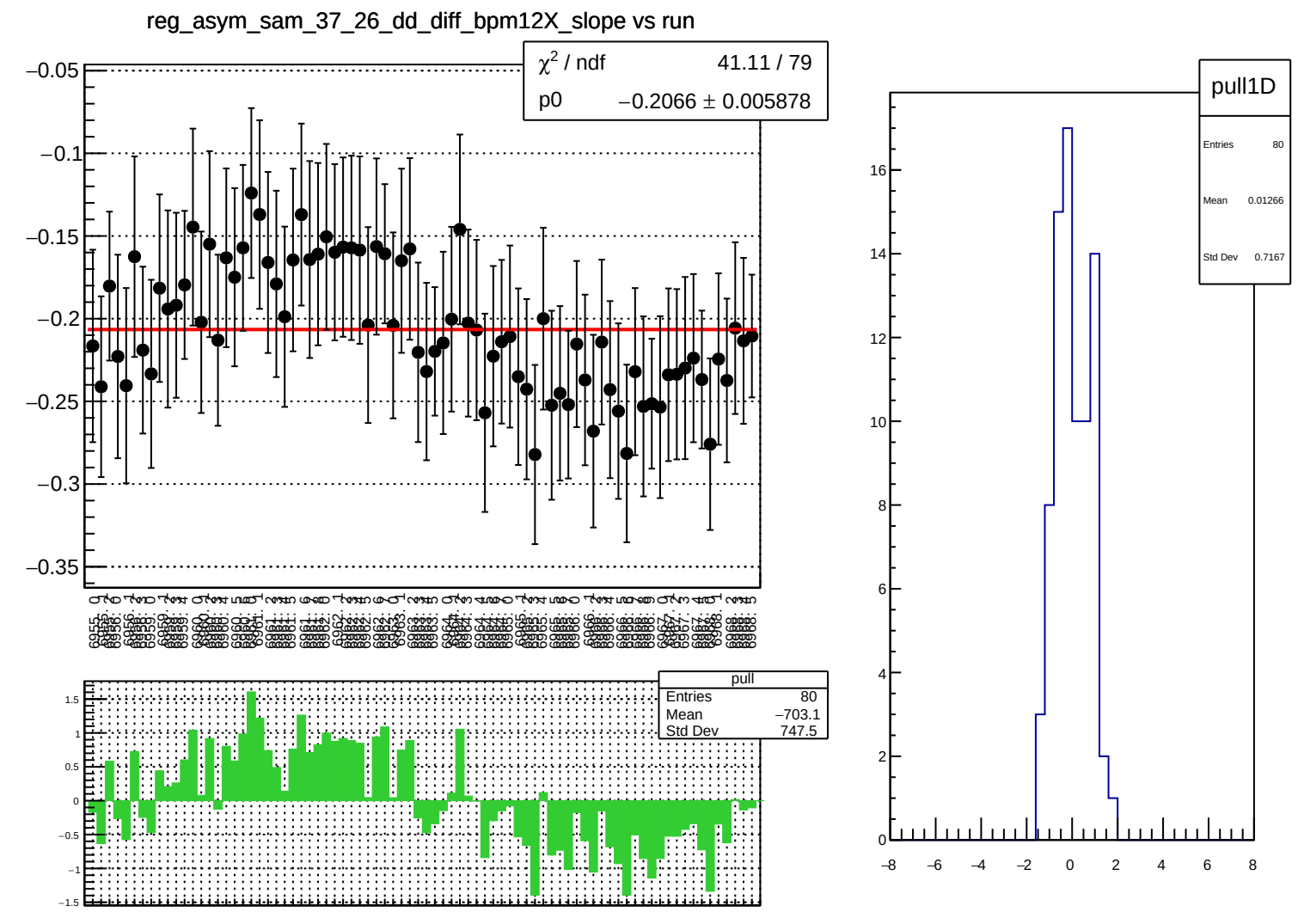

pull1D
Entries 80
Mean 0.06628
Std Dev 0.9993

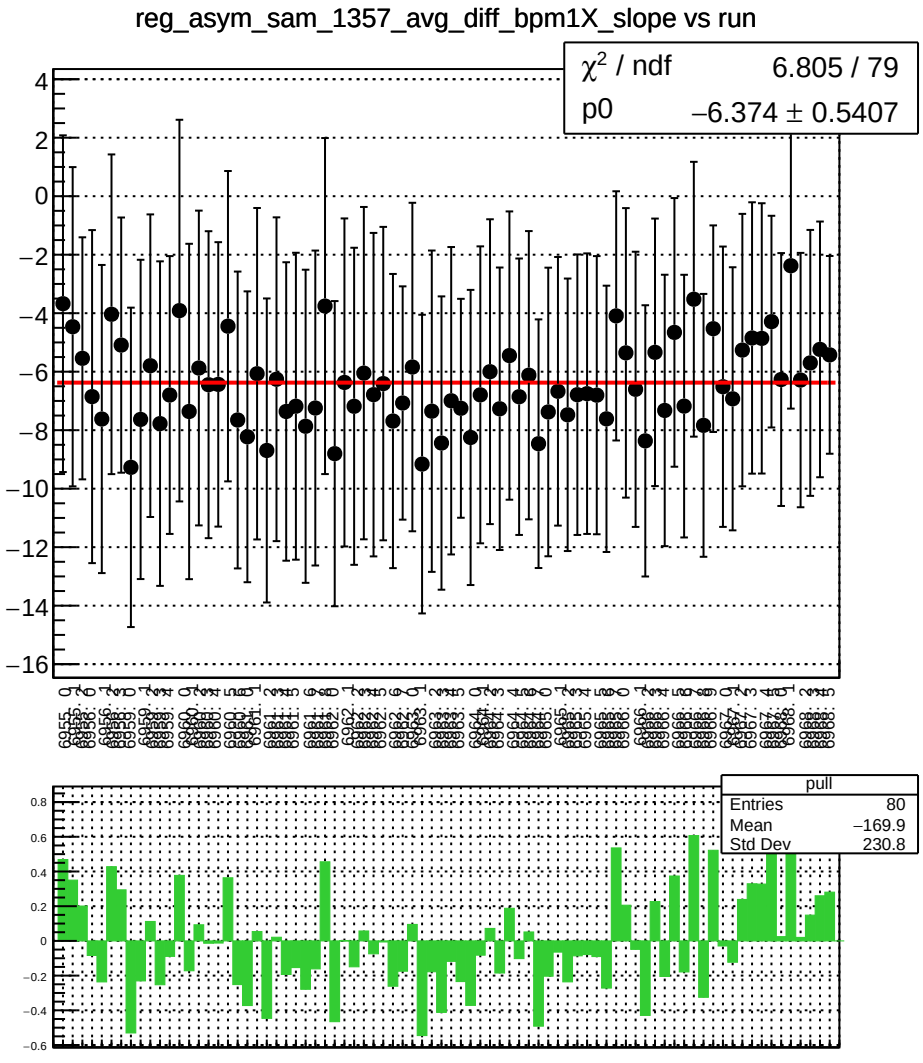

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.44 / 79
p0 −5.804 ± 0.1786
pull
Entries 80
Mean 1.096e+04
Std Dev 1.093e+04

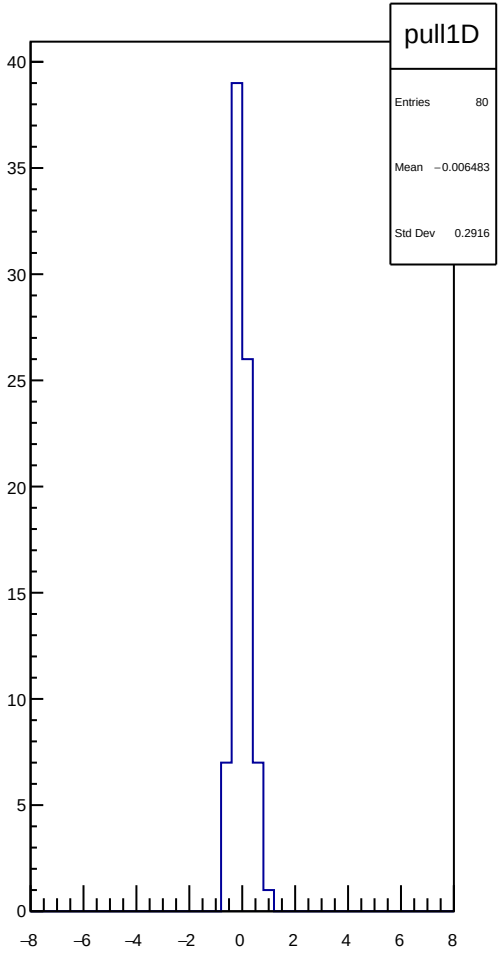

pull1D
Entries 80
Mean 0.0002492
Std Dev 0.4533

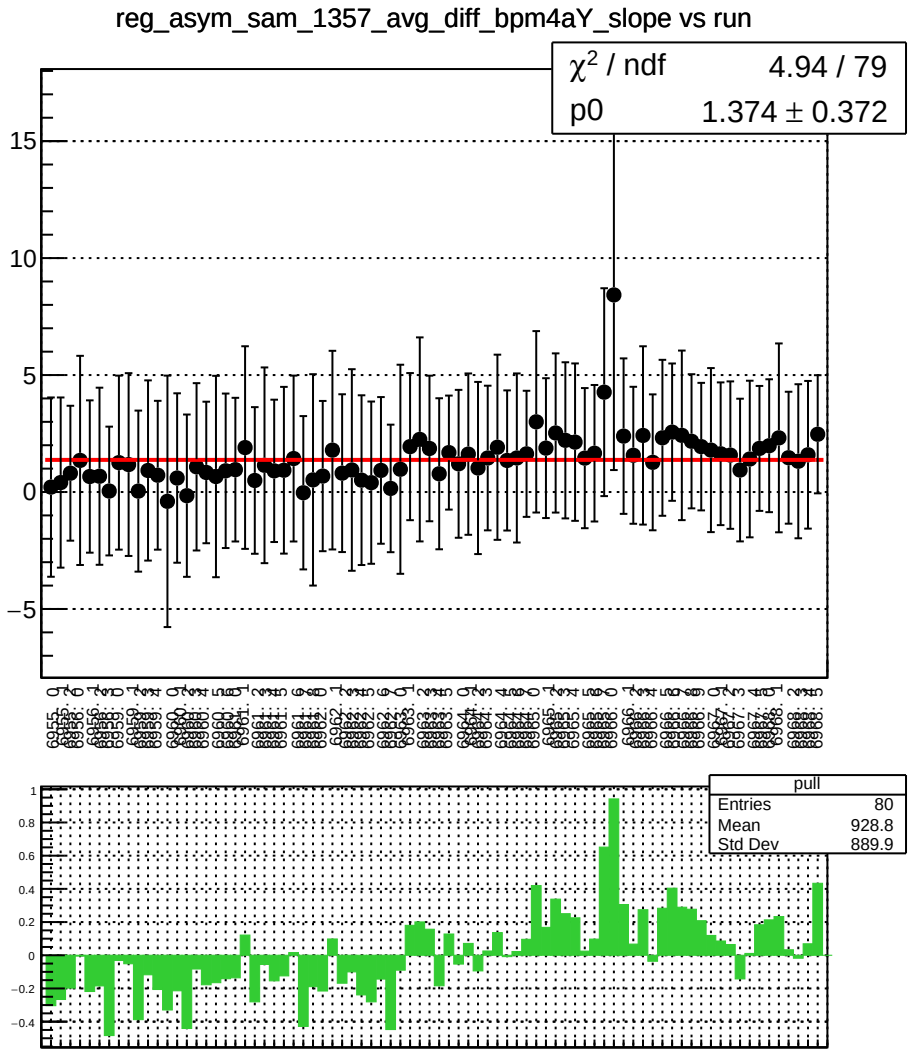

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 133.7 / 79
p0 23.38 ± 0.1514
pull
Entries 80
Mean 765
Std Dev 723.6

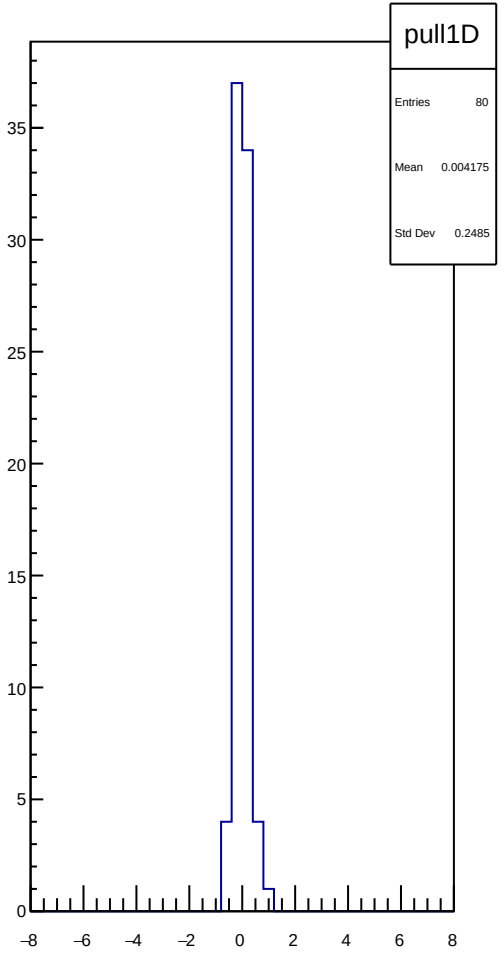

pull1D
Entries 80
Mean −0.02837
Std Dev 1.293

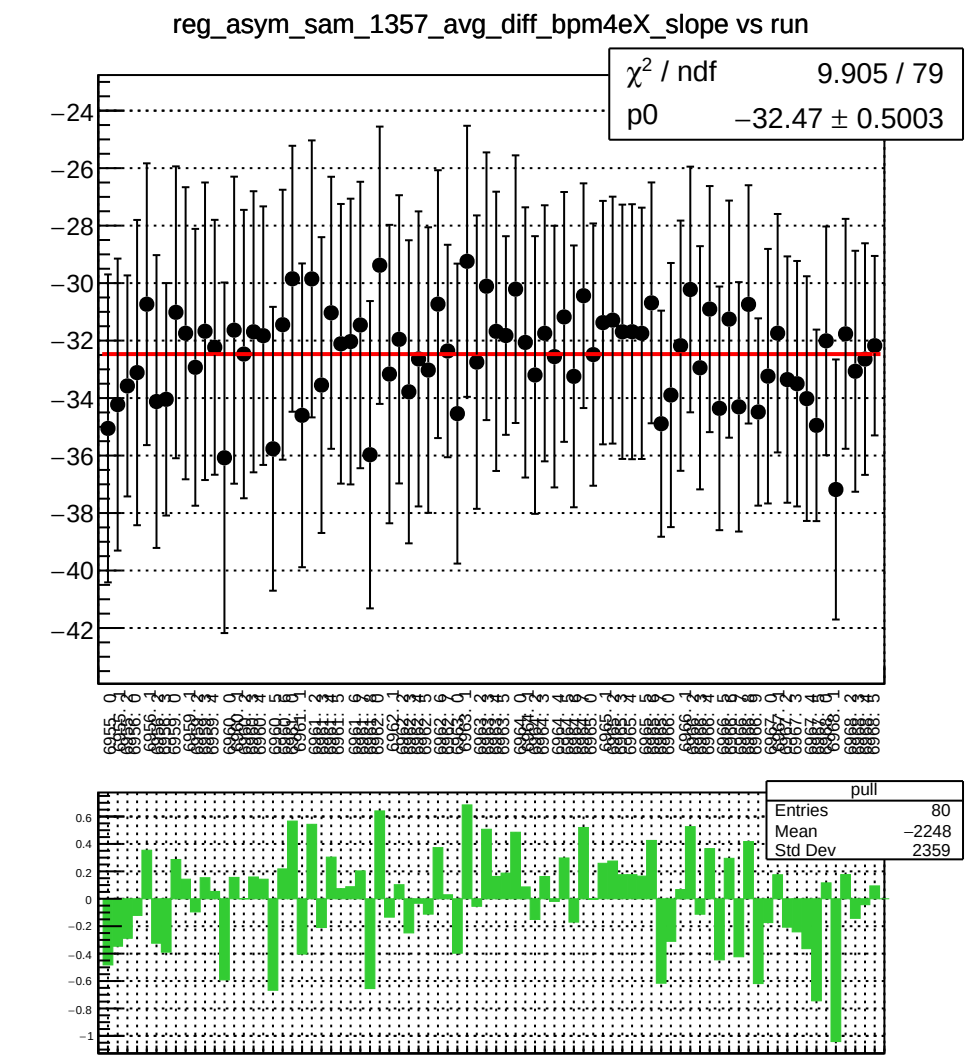

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 41.11 / 79
p0 −0.2066 ± 0.005878
pull
Entries 80
Mean −703.1
Std Dev 747.5
pull1D
Entries 80
Mean 0.01266
Std Dev 0.7167

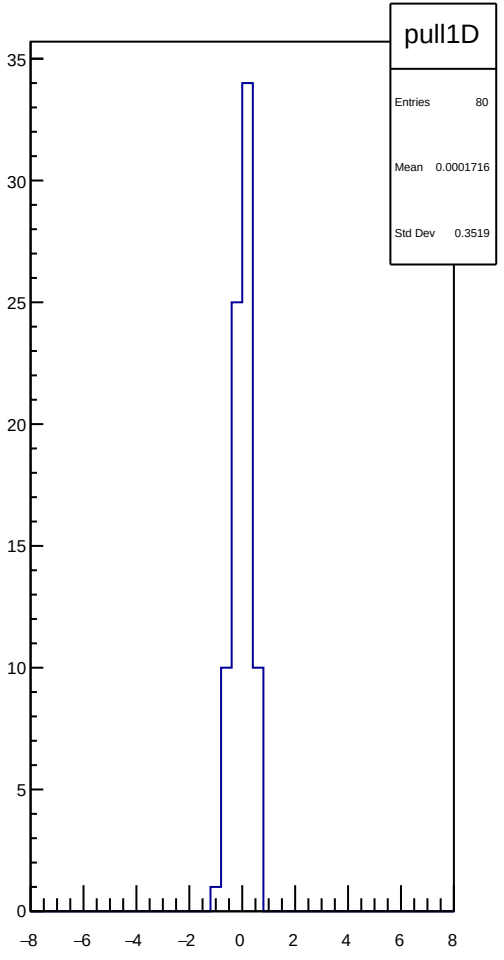

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 6.805 / 79
p0 −6.374 ± 0.5407
pull
Entries 80
Mean −169.9
Std Dev 230.8

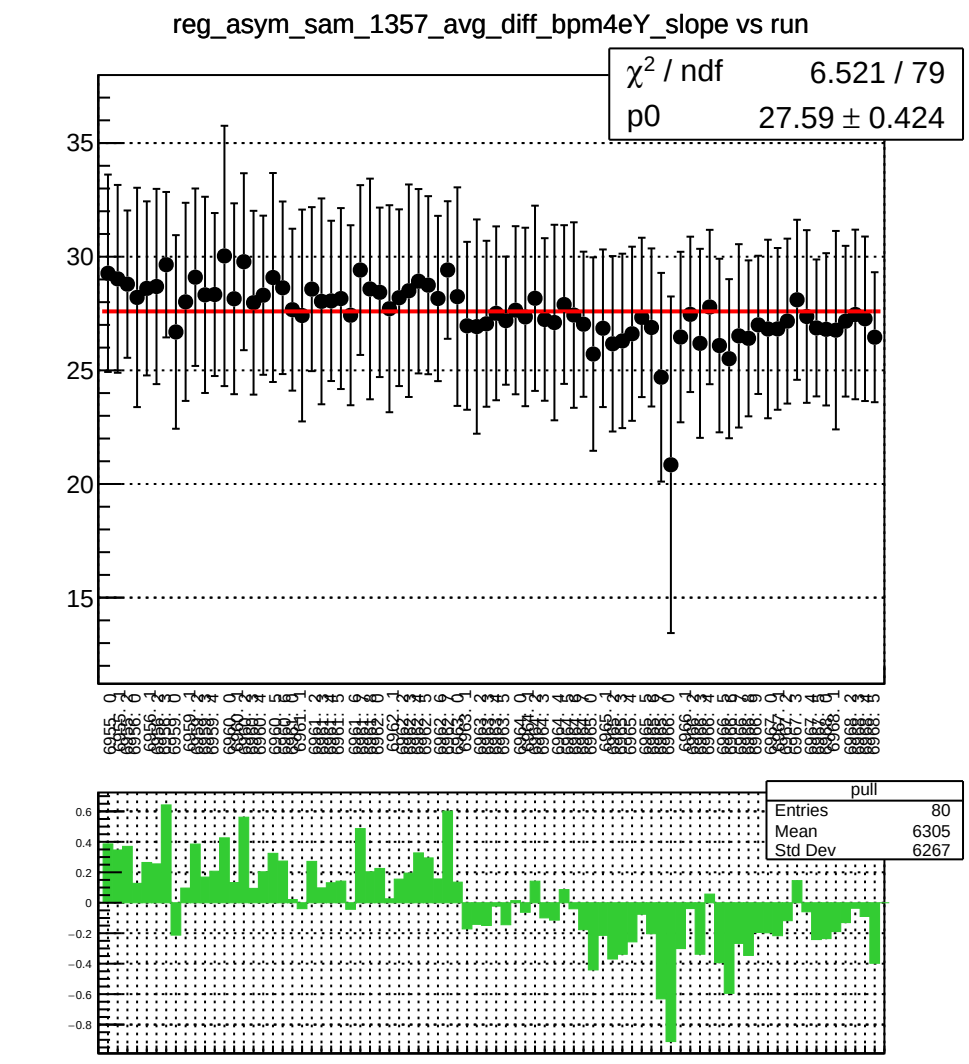

pull1D
Entries 80
Mean −0.006483
Std Dev 0.2916

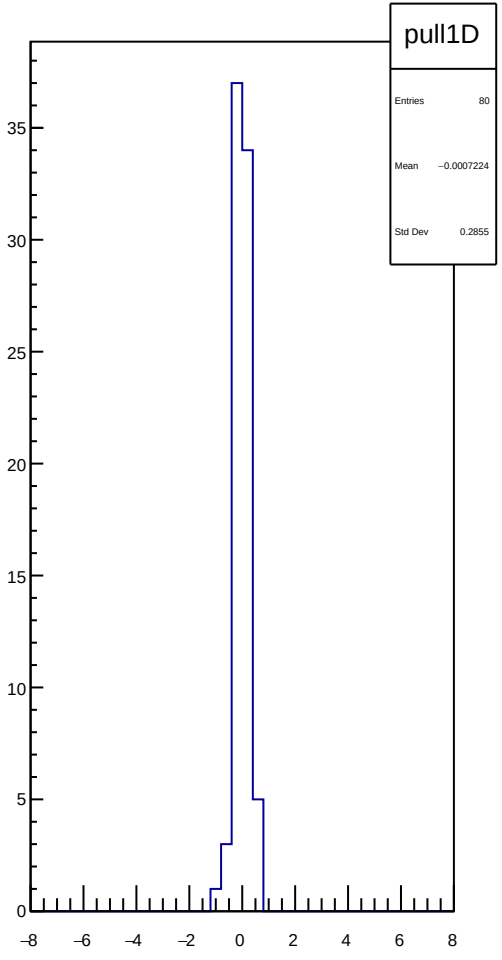

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.94 / 79
p0 1.374 ± 0.372
pull
Entries 80
Mean 928.8
Std Dev 889.9

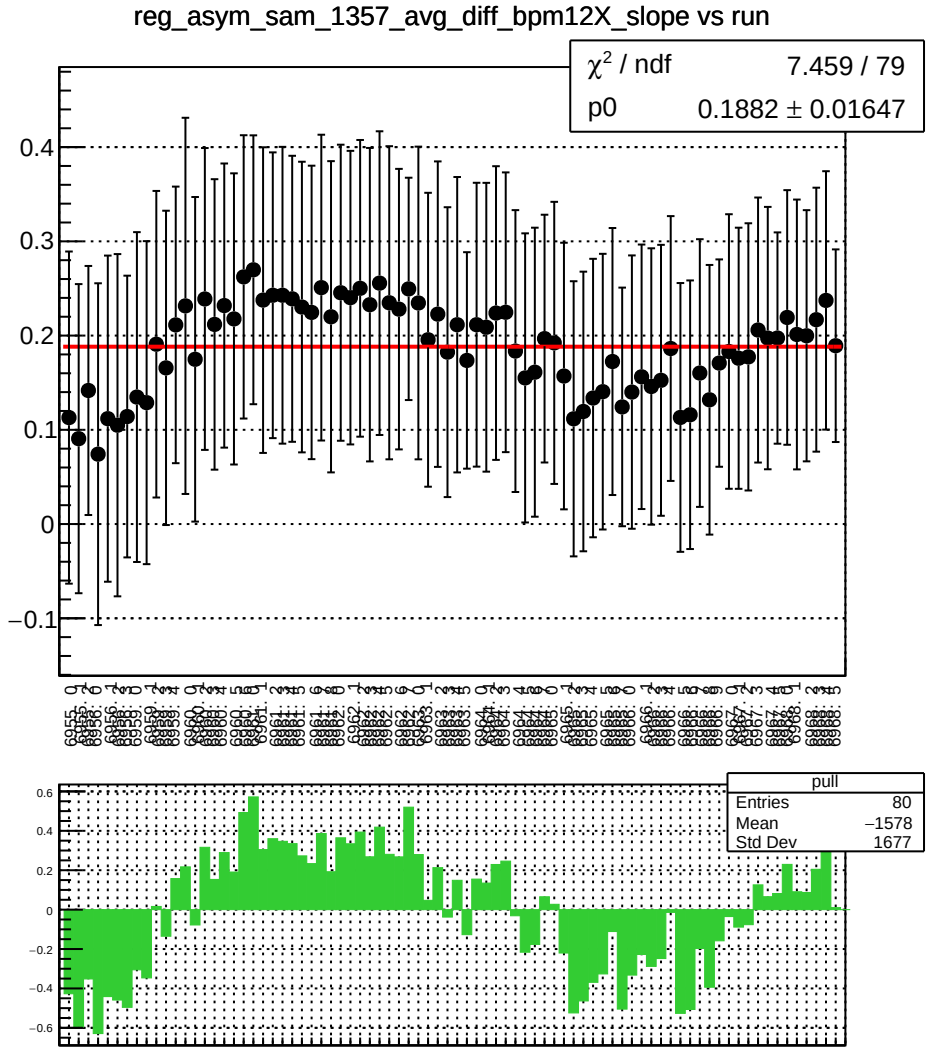

pull1D
Entries 80
Mean 0.004175
Std Dev 0.2485

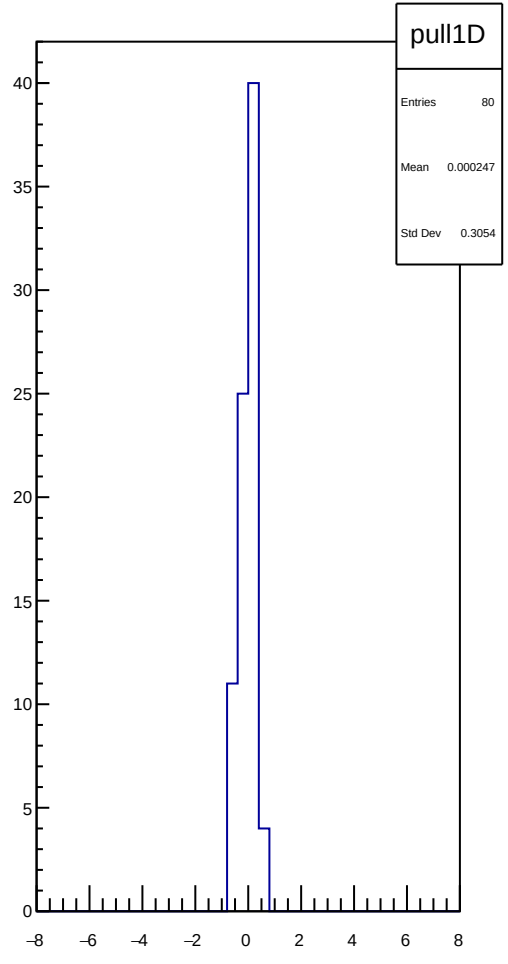

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.905 / 79
p0 −32.47 ± 0.5003
pull
Entries 80
Mean −2248
Std Dev 2359

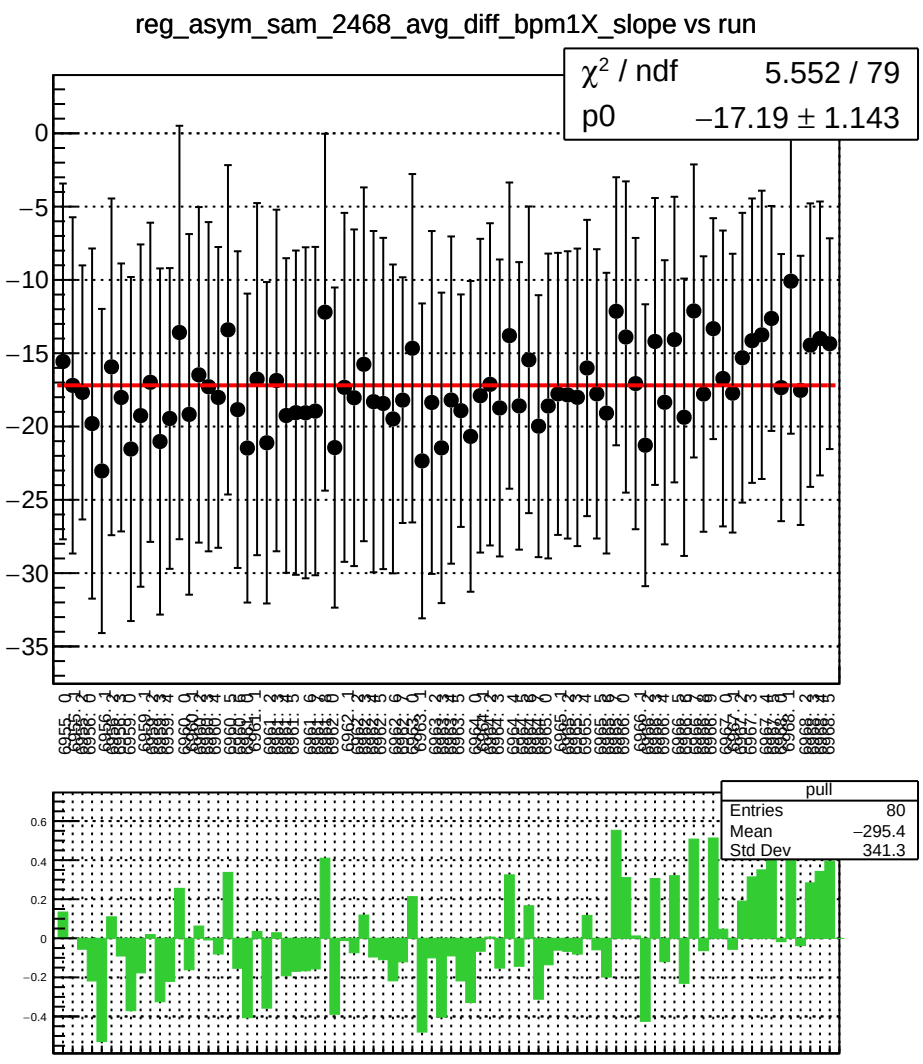

pull1D
Entries 80
Mean 0.0001716
Std Dev 0.3519

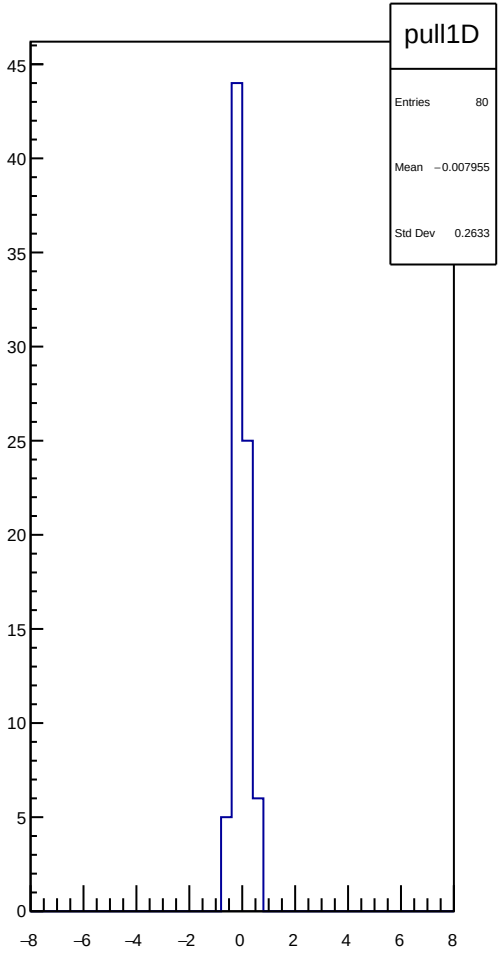

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.521 / 79
p0 27.59 ± 0.424
pull
Entries 80
Mean 6305
Std Dev 6267

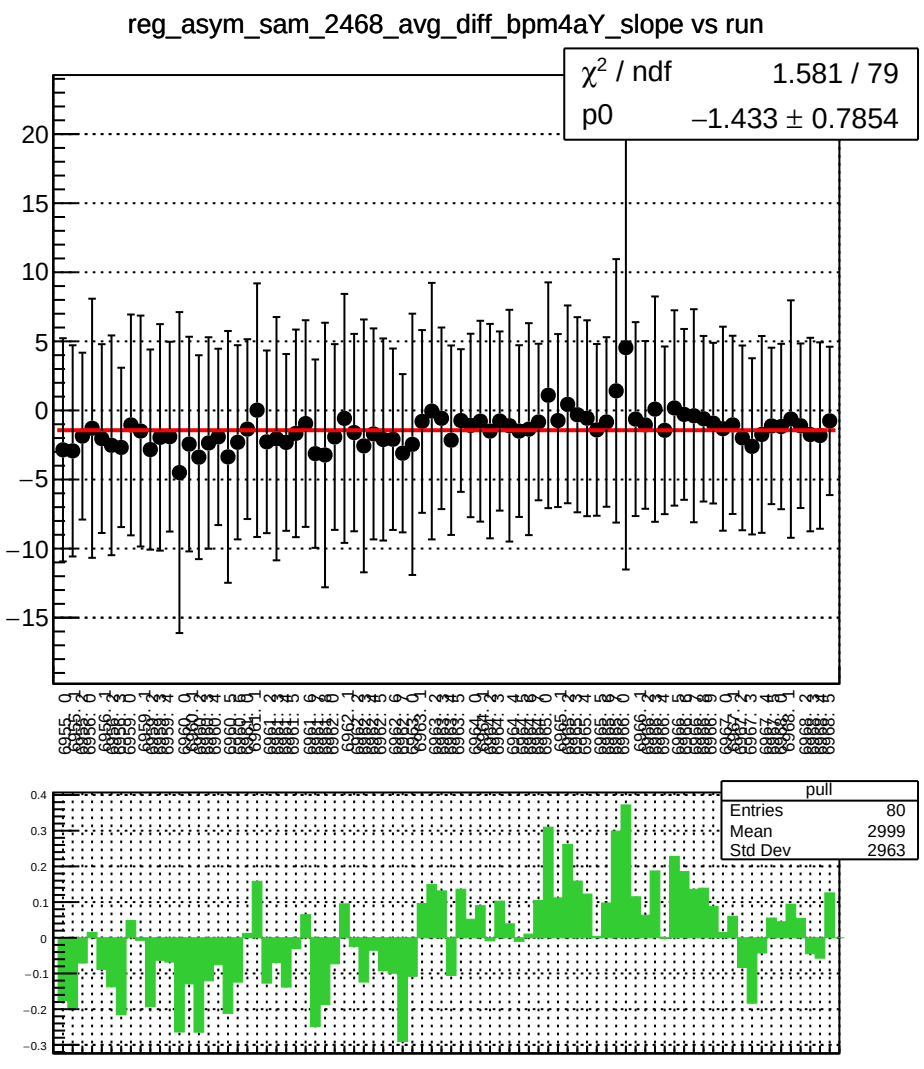

pull1D
Entries 80
Mean −0.0007224
Std Dev 0.2855

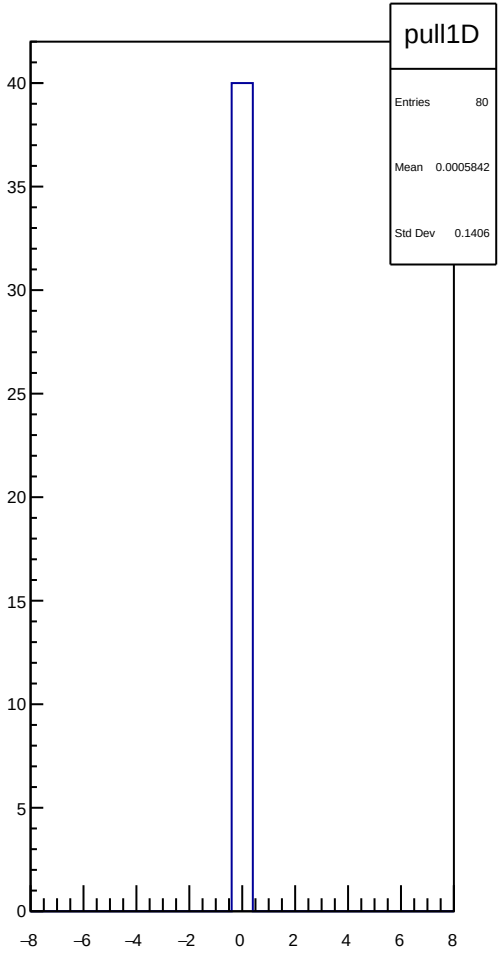

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 7.459 / 79
p0 0.1882 ± 0.01647
pull
Entries 80
Mean −1578
Std Dev 1677

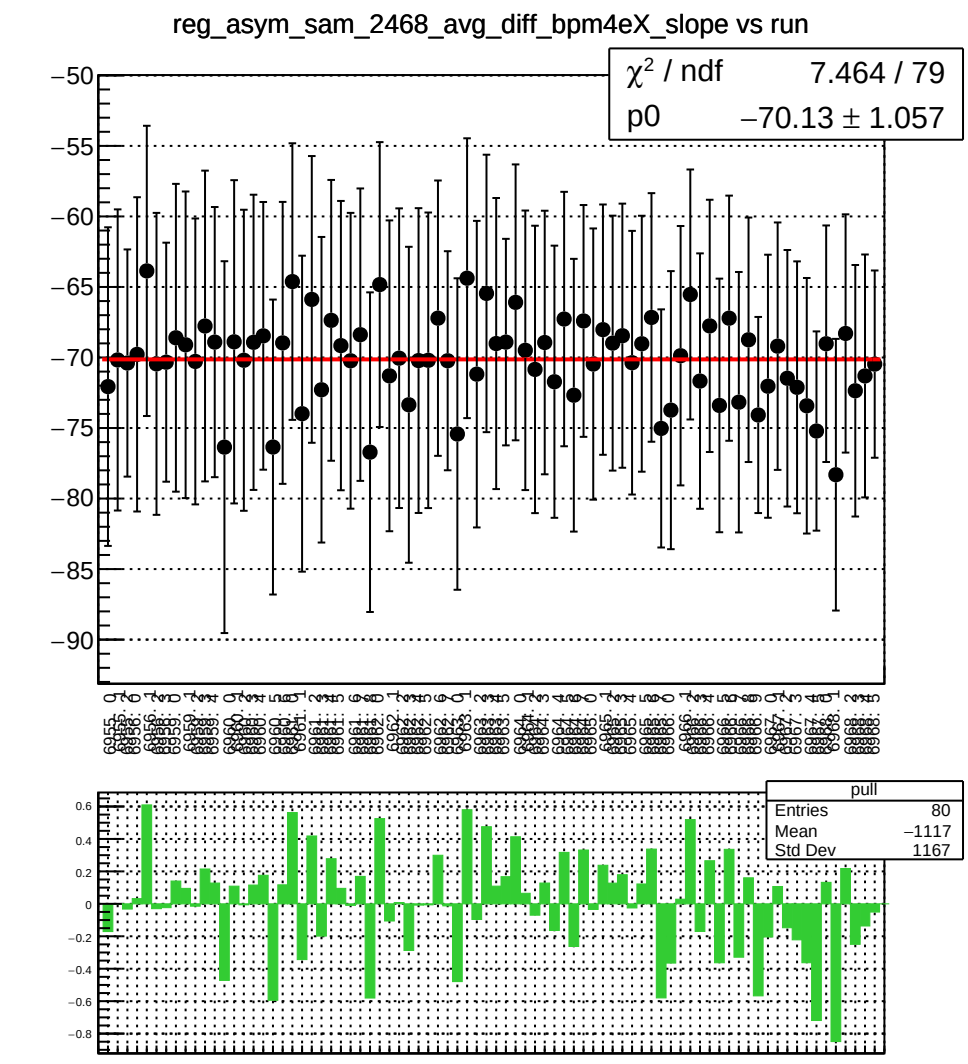

pull1D
Entries 80
Mean 0.000247
Std Dev 0.3054

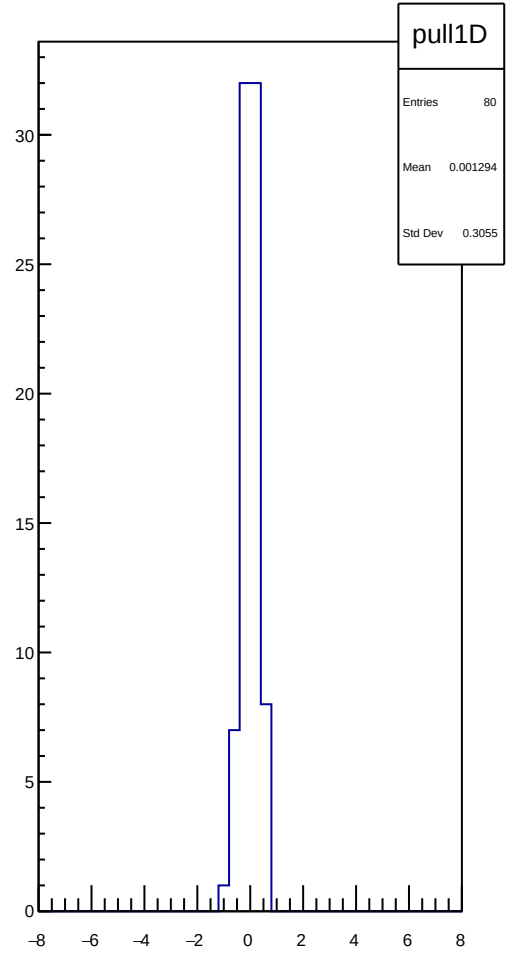

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 5.552 / 79
p0 −17.19 ± 1.143
pull
Entries 80
Mean −295.4
Std Dev 341.3

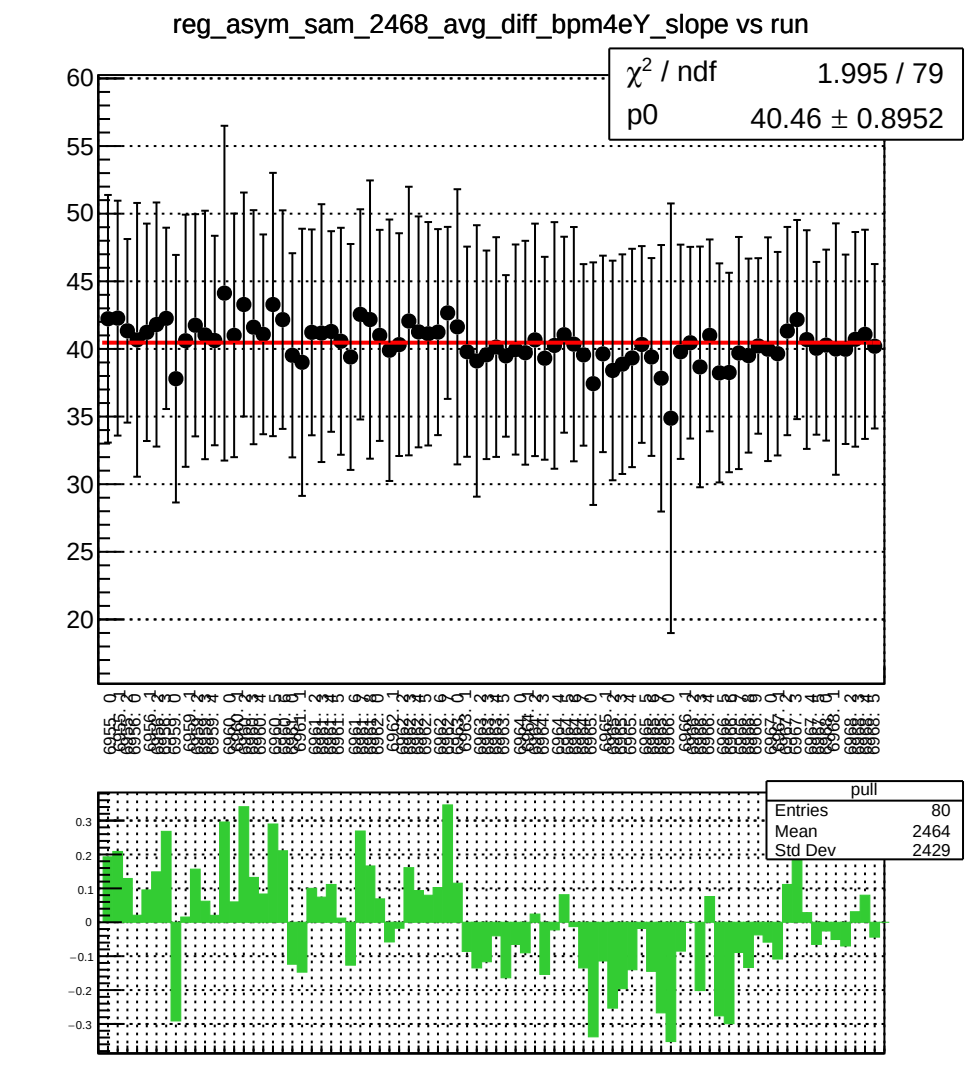

pull1D
Entries 80
Mean −0.007955
Std Dev 0.2633

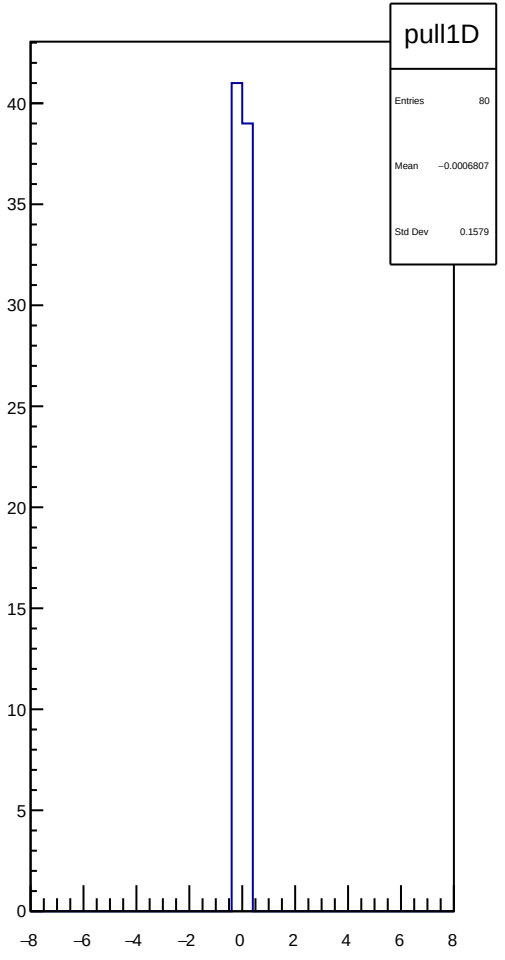

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.581 / 79
p0 −1.433 ± 0.7854
pull
Entries 80
Mean 2999
Std Dev 2963

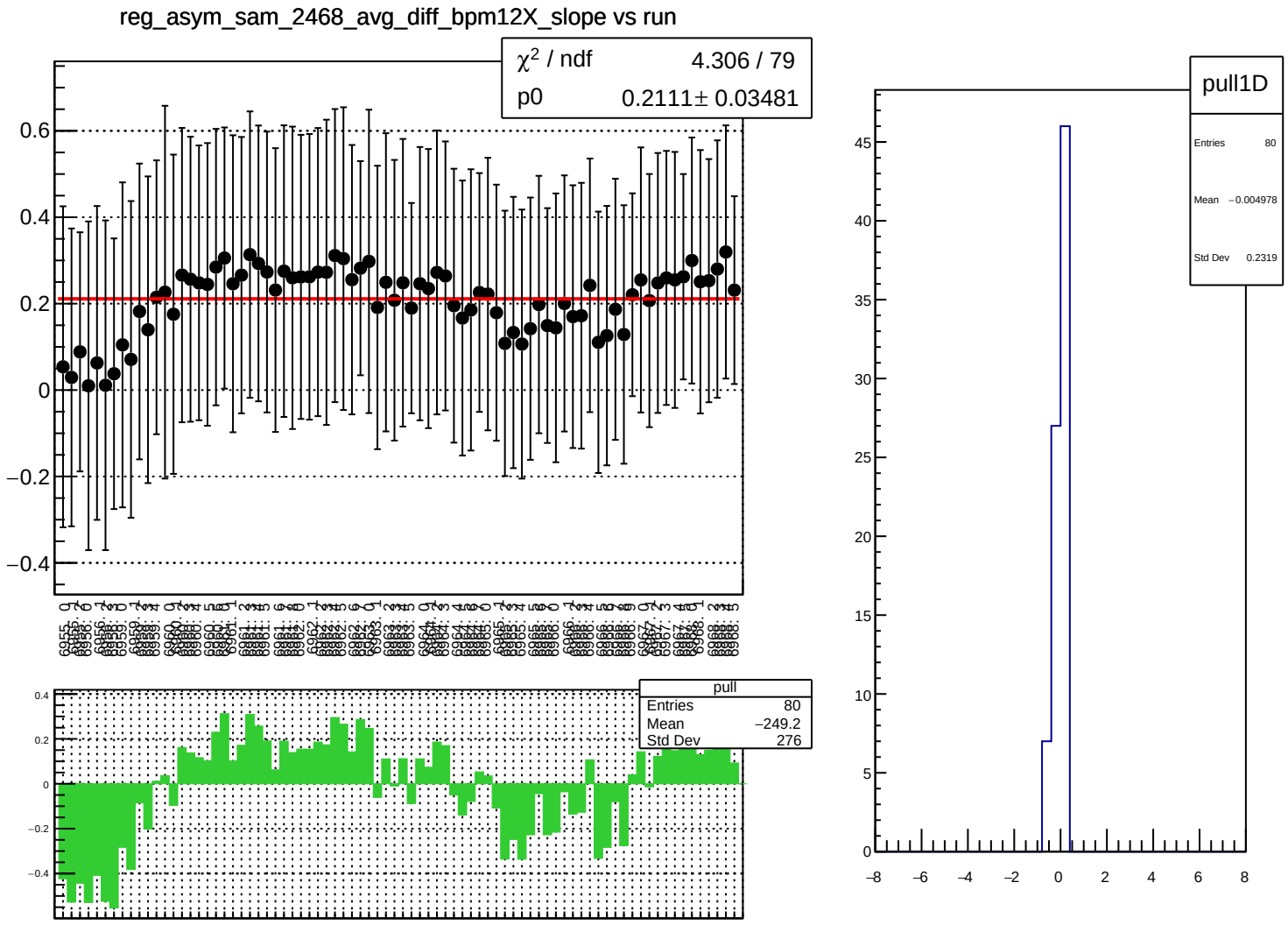

pull1D
Entries 80
Mean 0.0005842
Std Dev 0.1406

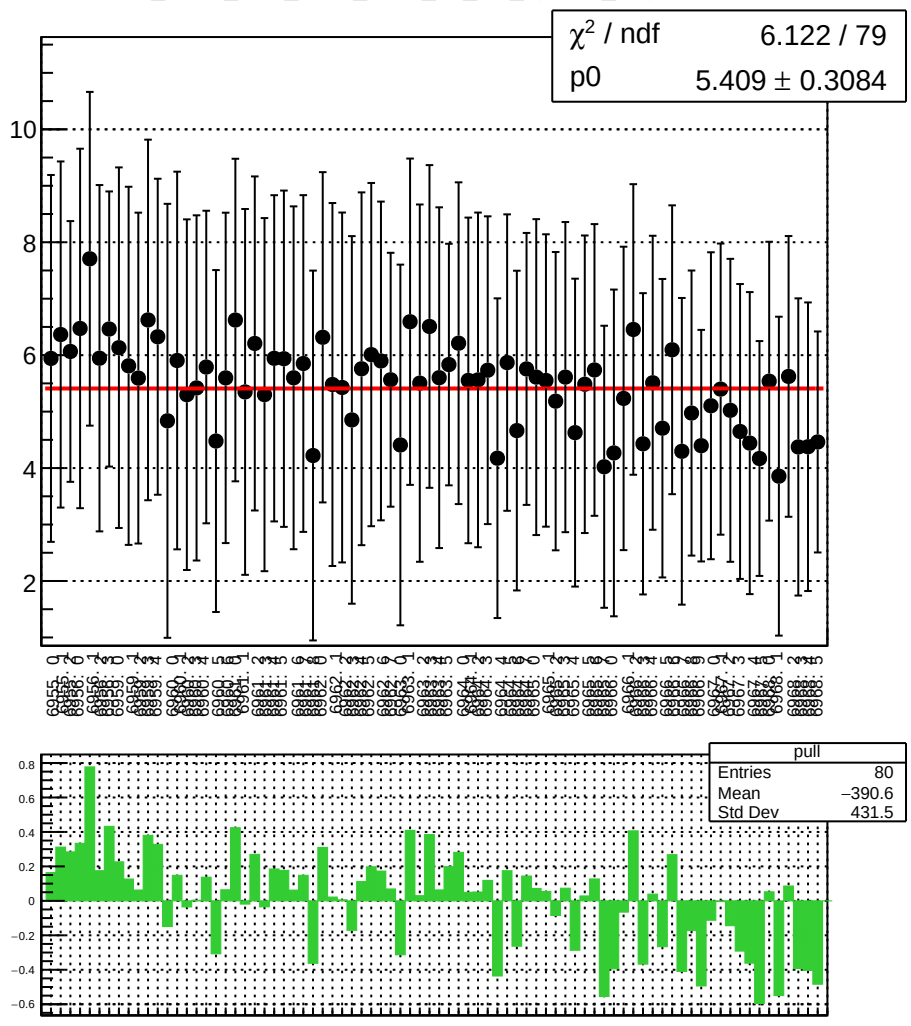

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.464 / 79
p0 −70.13 ± 1.057
pull
Entries 80
Mean −1117
Std Dev 1167

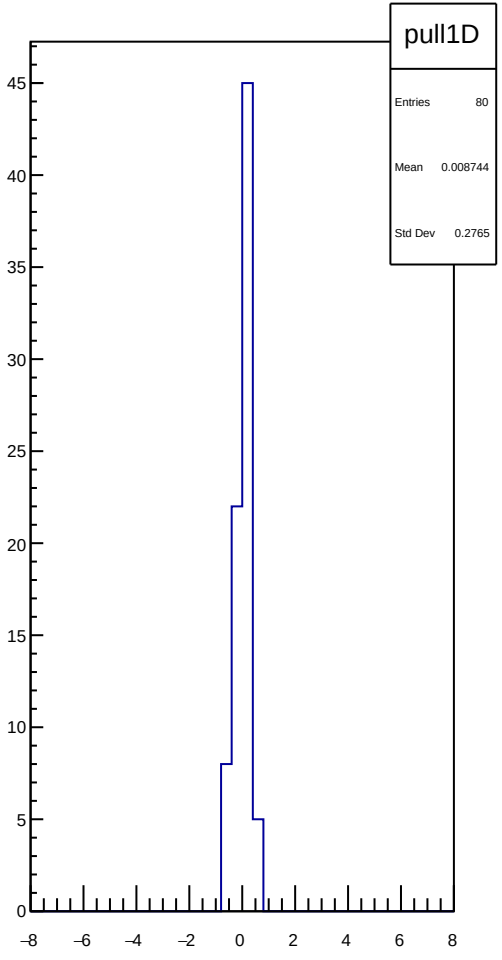

pull1D
Entries 80
Mean 0.001294
Std Dev 0.3055

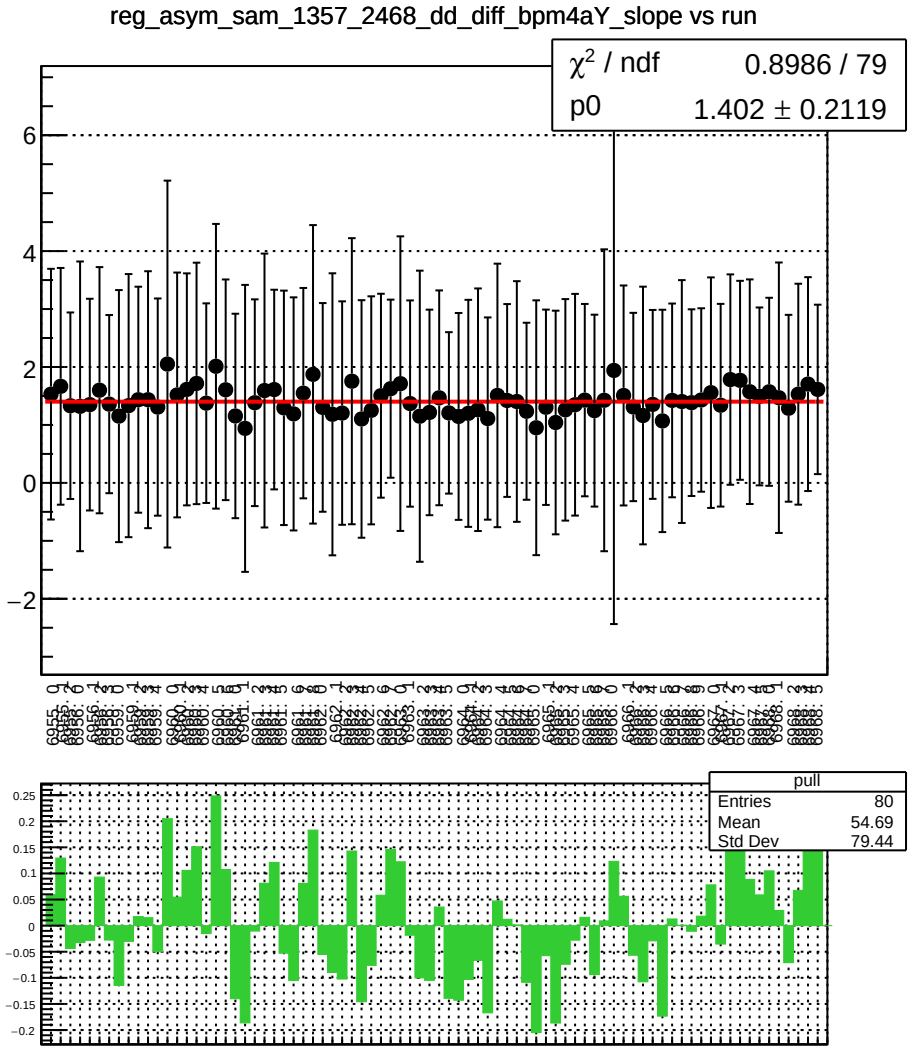

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.995 / 79
p0 40.46 ± 0.8952
pull
Entries 80
Mean 2464
Std Dev 2429

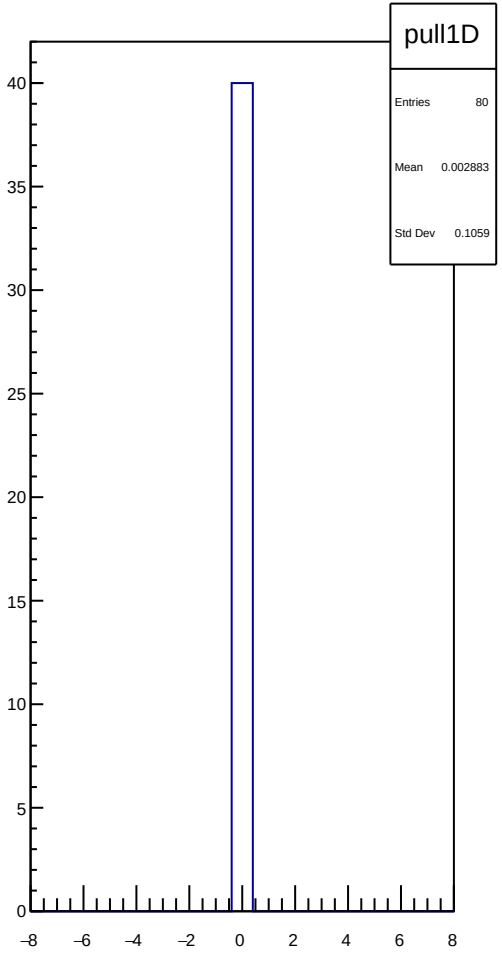

pull1D
Entries 80
Mean −0.0006807
Std Dev 0.1579

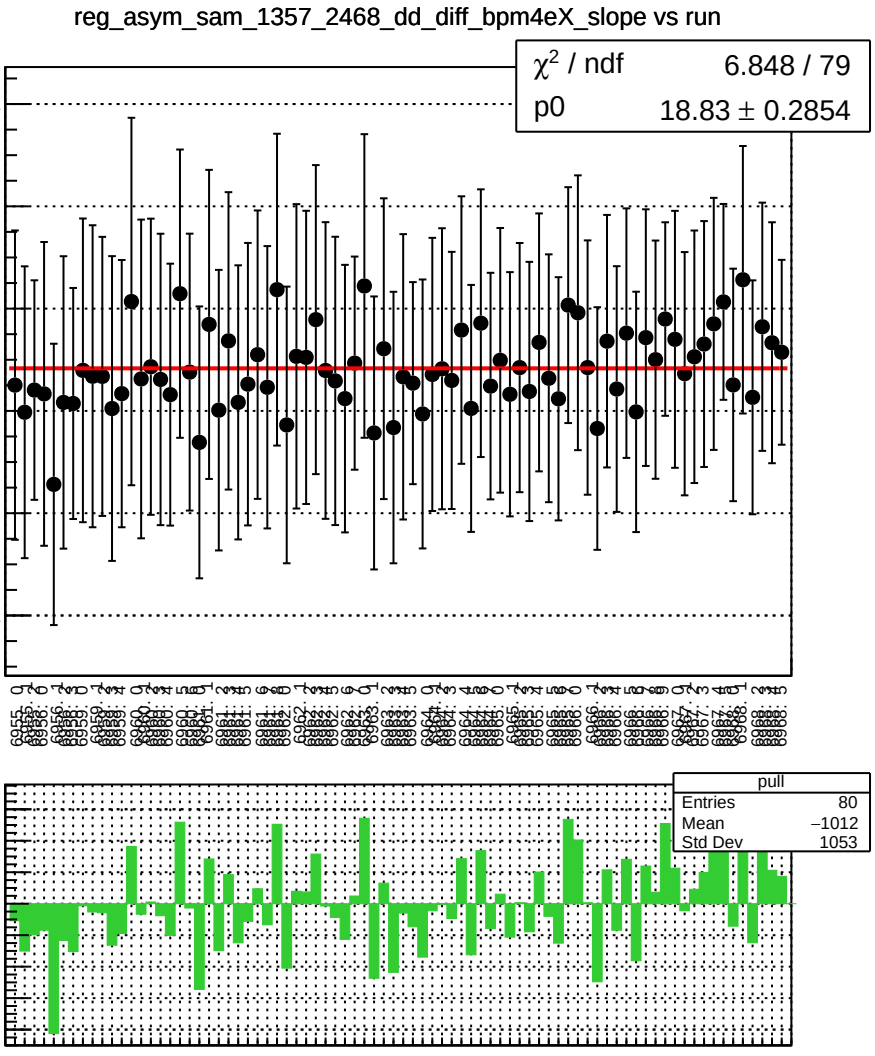

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 4.306 / 79
p0 0.2111± 0.03481
pull
Entries 80
Mean −249.2
Std Dev 276
pull1D
Entries 80
Mean −0.004978
Std Dev 0.2319

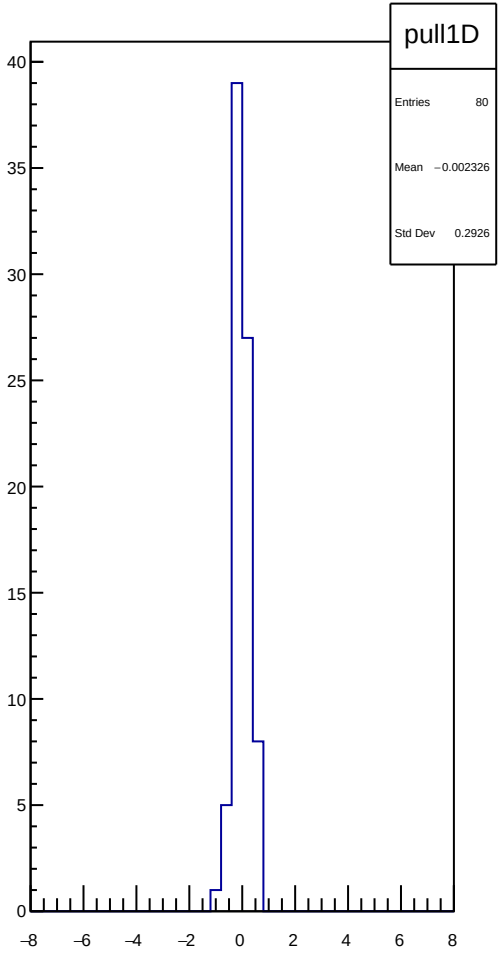

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 6.122 / 79
p0 5.409 ± 0.3084
pull
Entries 80
Mean −390.6
Std Dev 431.5

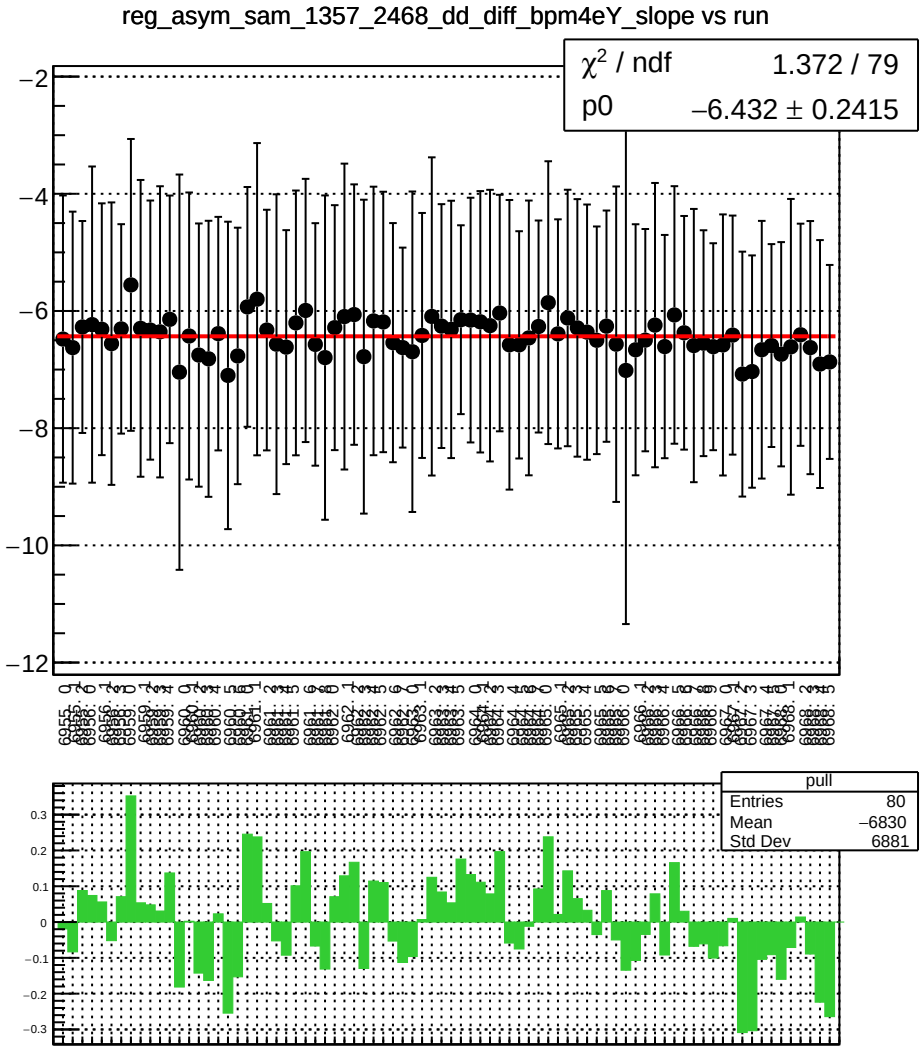

pull1D
Entries 80
Mean 0.008744
Std Dev 0.2765

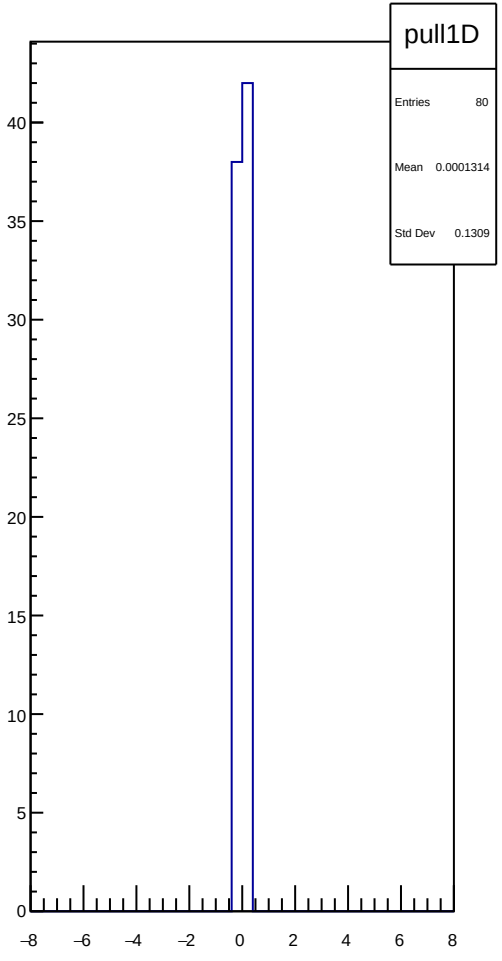

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.8986 / 79
p0 1.402 ± 0.2119
pull
Entries 80
Mean 54.69
Std Dev 79.44

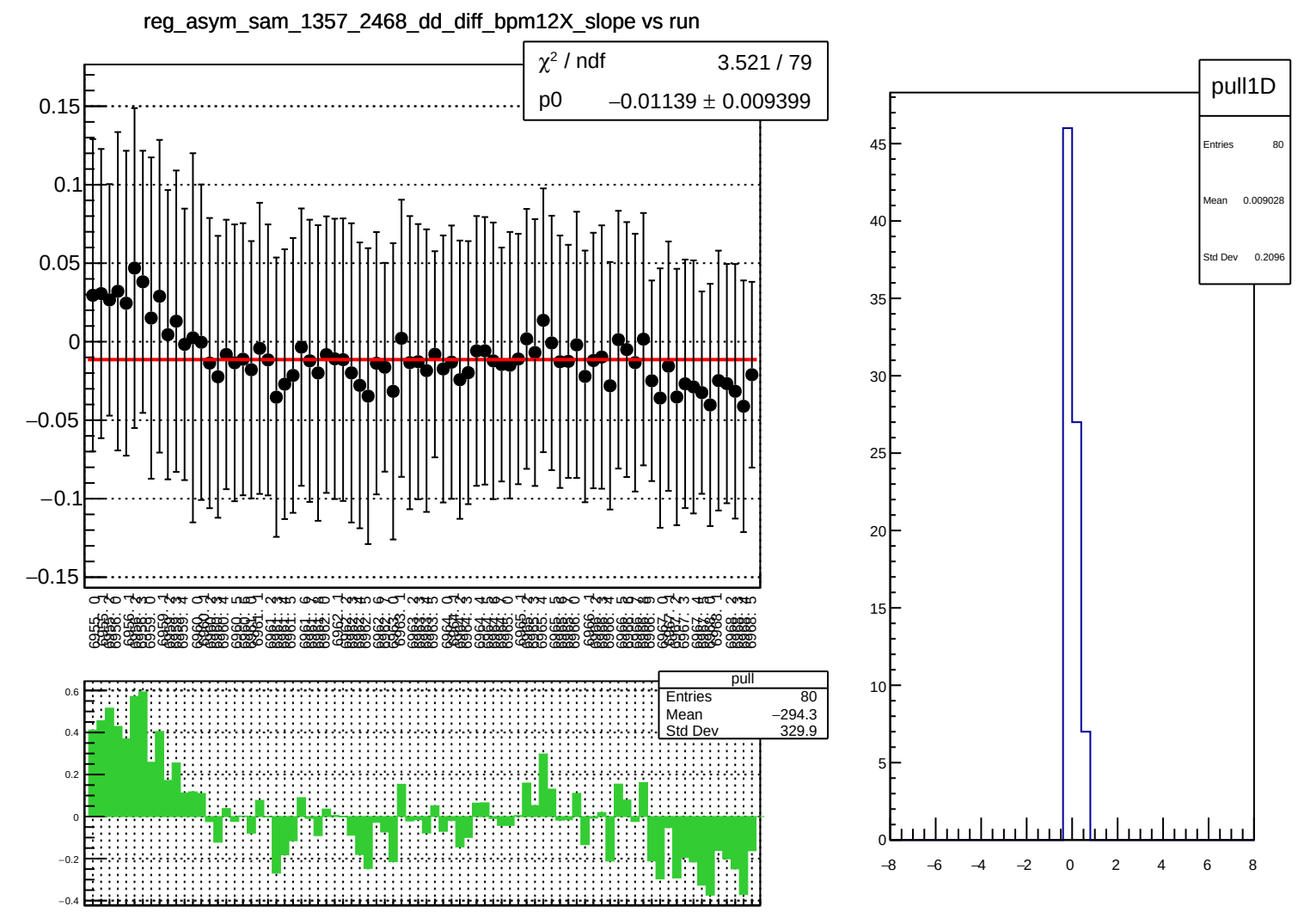

pull1D
Entries 80
Mean 0.002883
Std Dev 0.1059

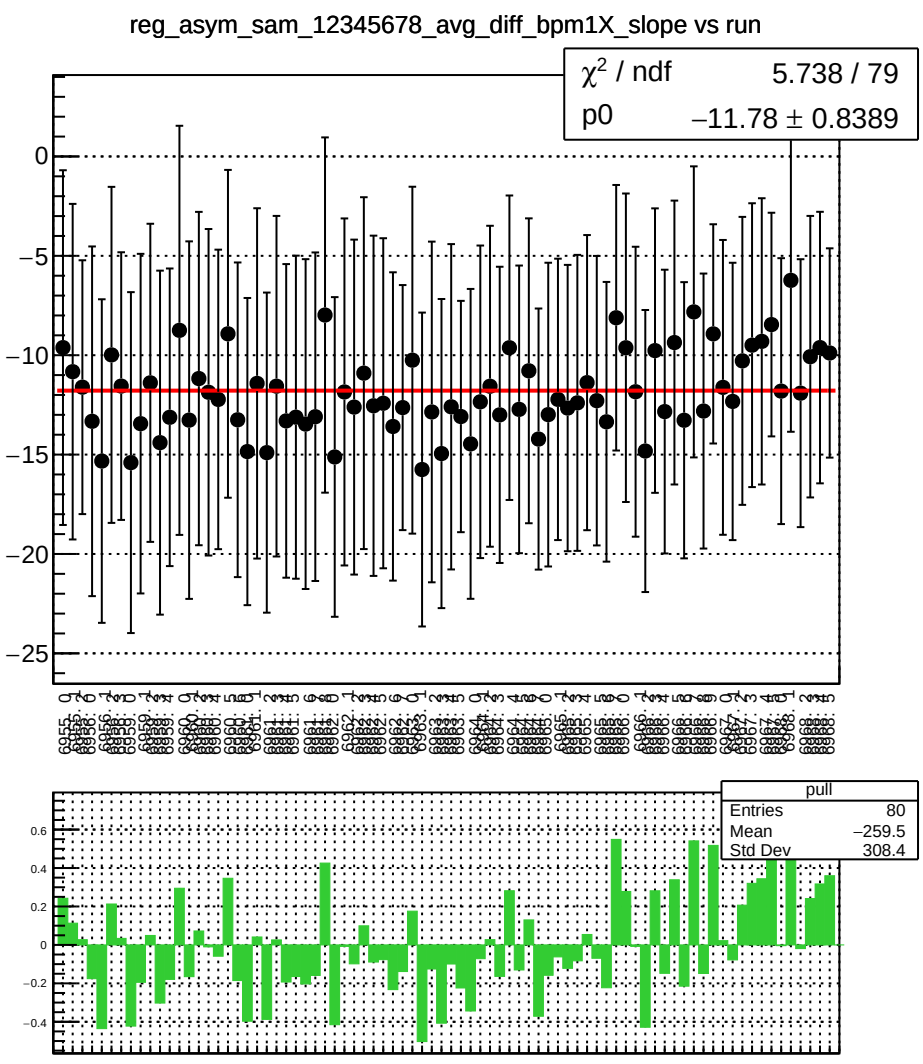

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.848 / 79
p0 18.83 ± 0.2854
pull
Entries 80
Mean −1012
Std Dev 1053

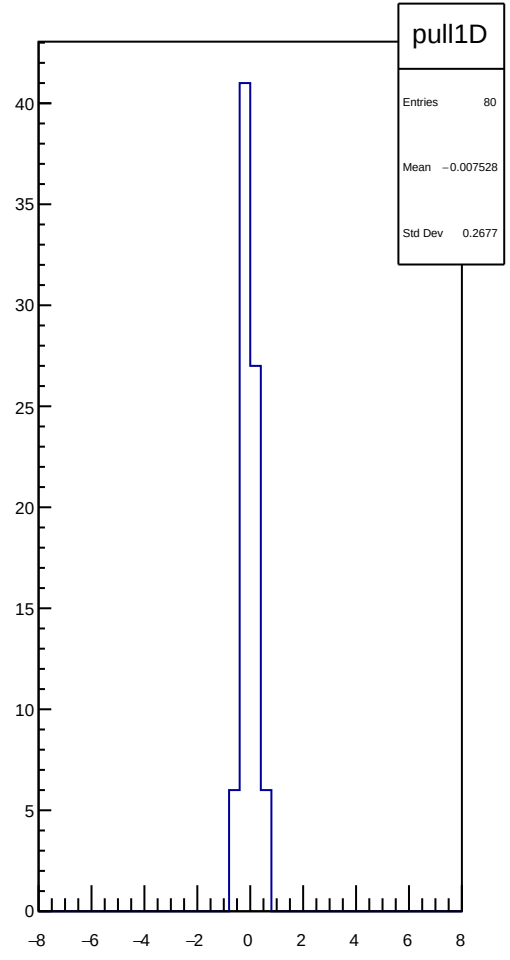

pull1D
Entries 80
Mean −0.002326
Std Dev 0.2926

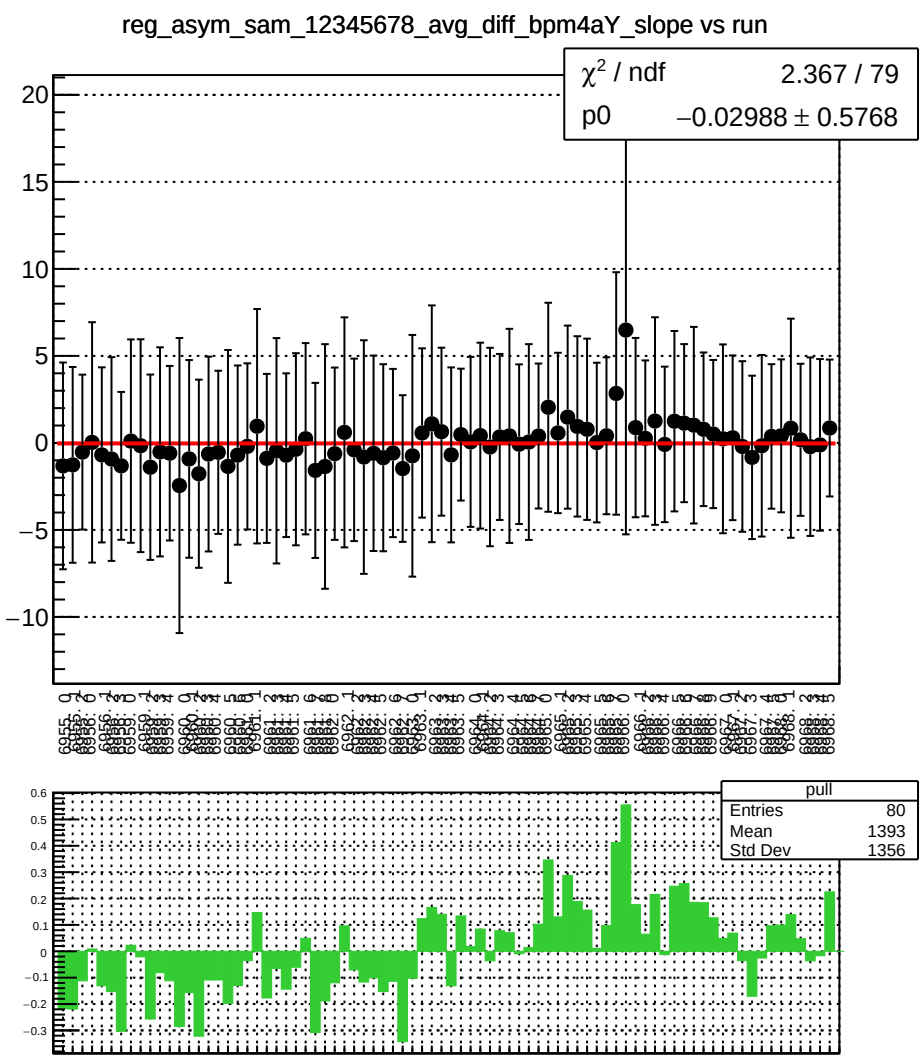

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.372 / 79
p0 −6.432 ± 0.2415
pull
Entries 80
Mean −6830
Std Dev 6881

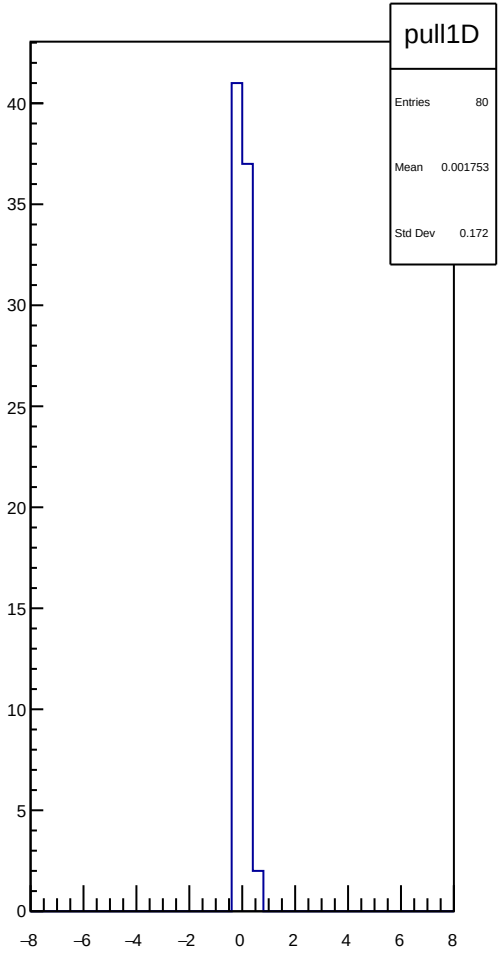

pull1D
Entries 80
Mean 0.0001314
Std Dev 0.1309

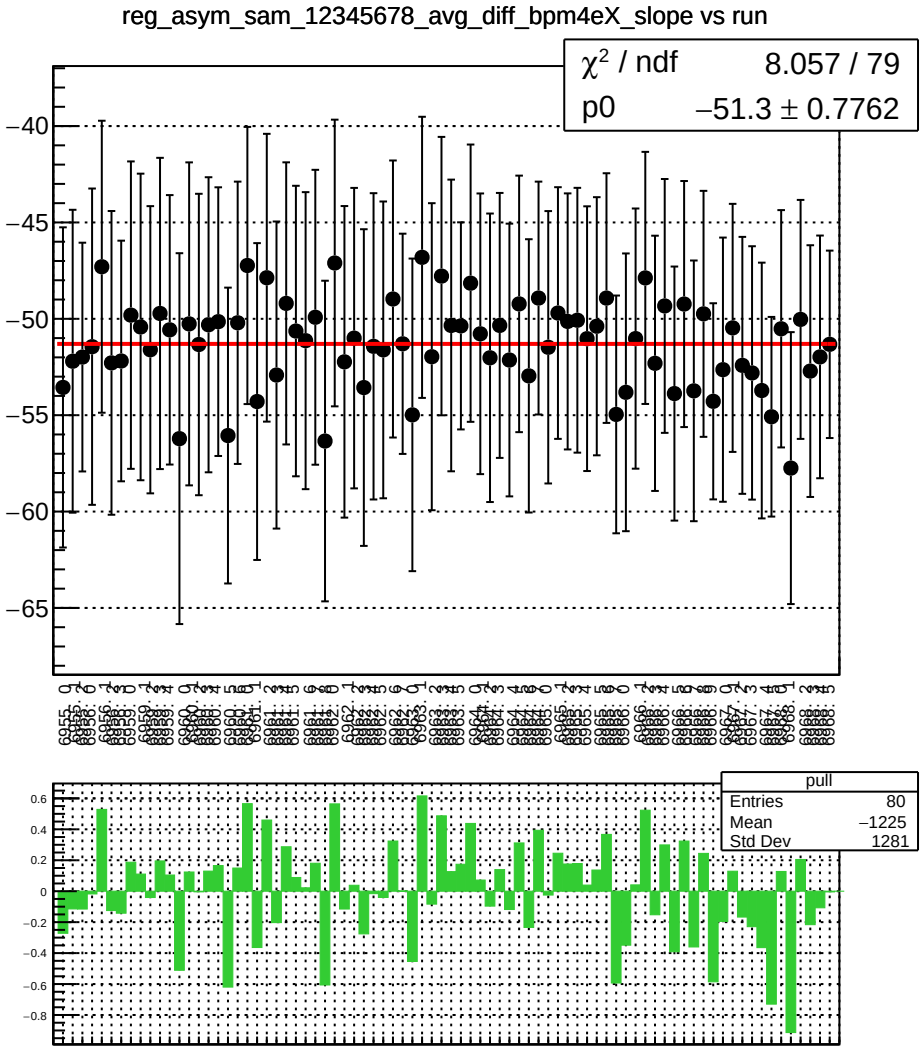

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 3.521 / 79
p0 −0.01139 ± 0.009399
pull
Entries 80
Mean −294.3
Std Dev 329.9
pull1D
Entries 80
Mean 0.009028
Std Dev 0.2096

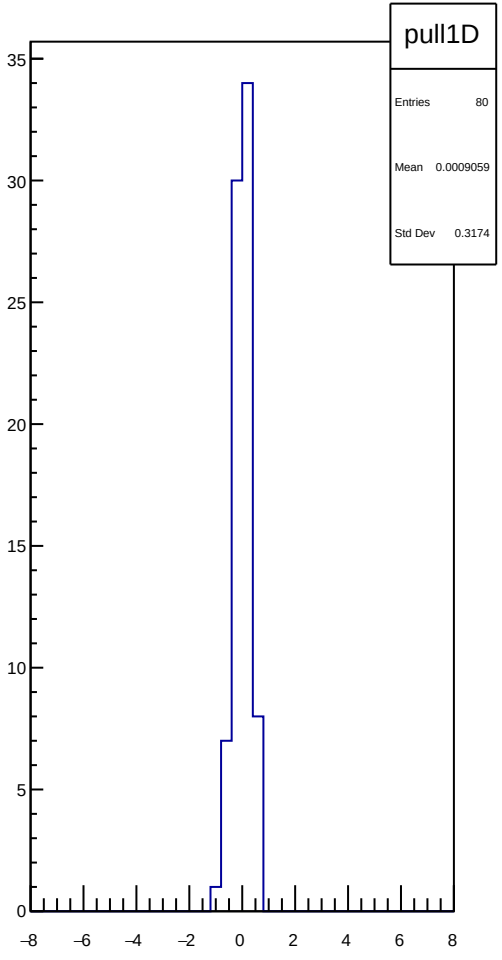

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 5.738 / 79
p0 −11.78 ± 0.8389
pull
Entries 80
Mean −259.5
Std Dev 308.4

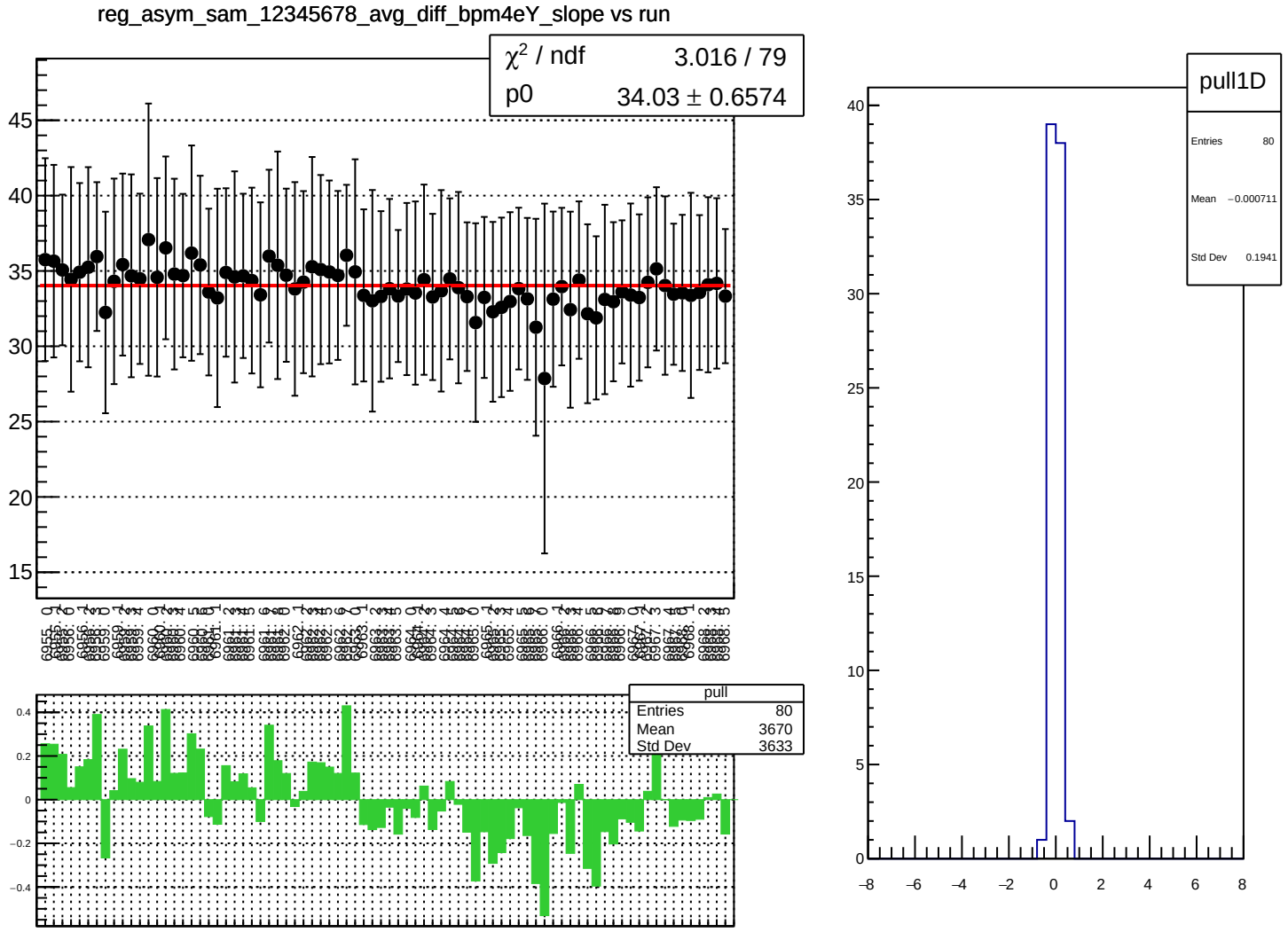

pull1D
Entries 80
Mean −0.007528
Std Dev 0.2677

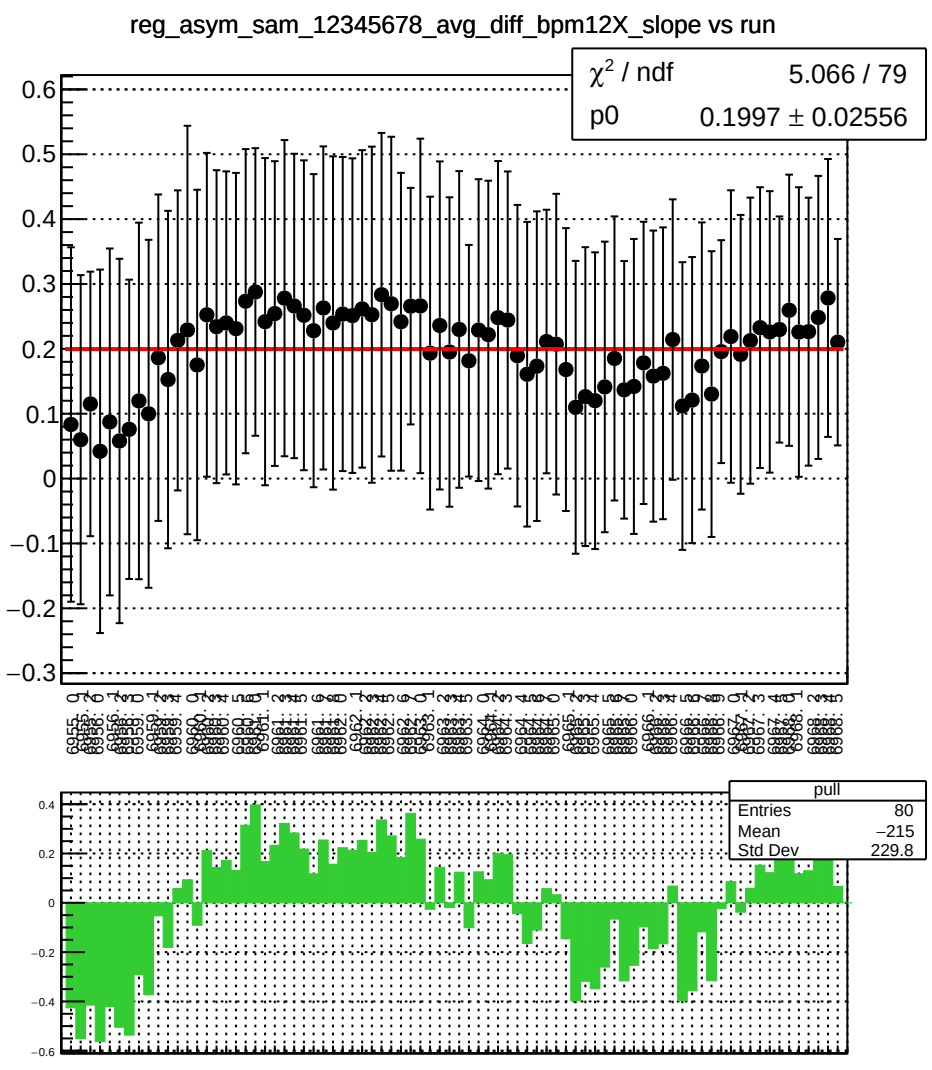

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.367 / 79
p0 −0.02988 ± 0.5768
pull
Entries 80
Mean 1393
Std Dev 1356

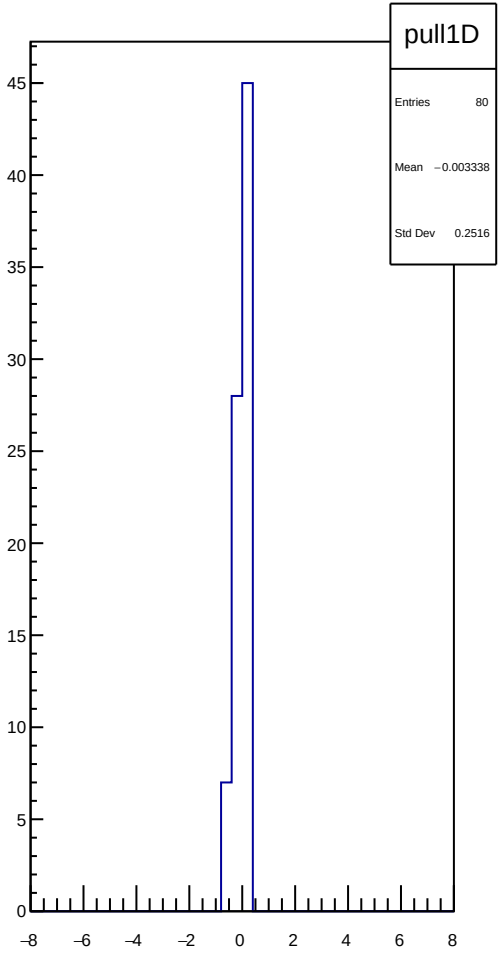

pull1D
Entries 80
Mean 0.001753
Std Dev 0.172

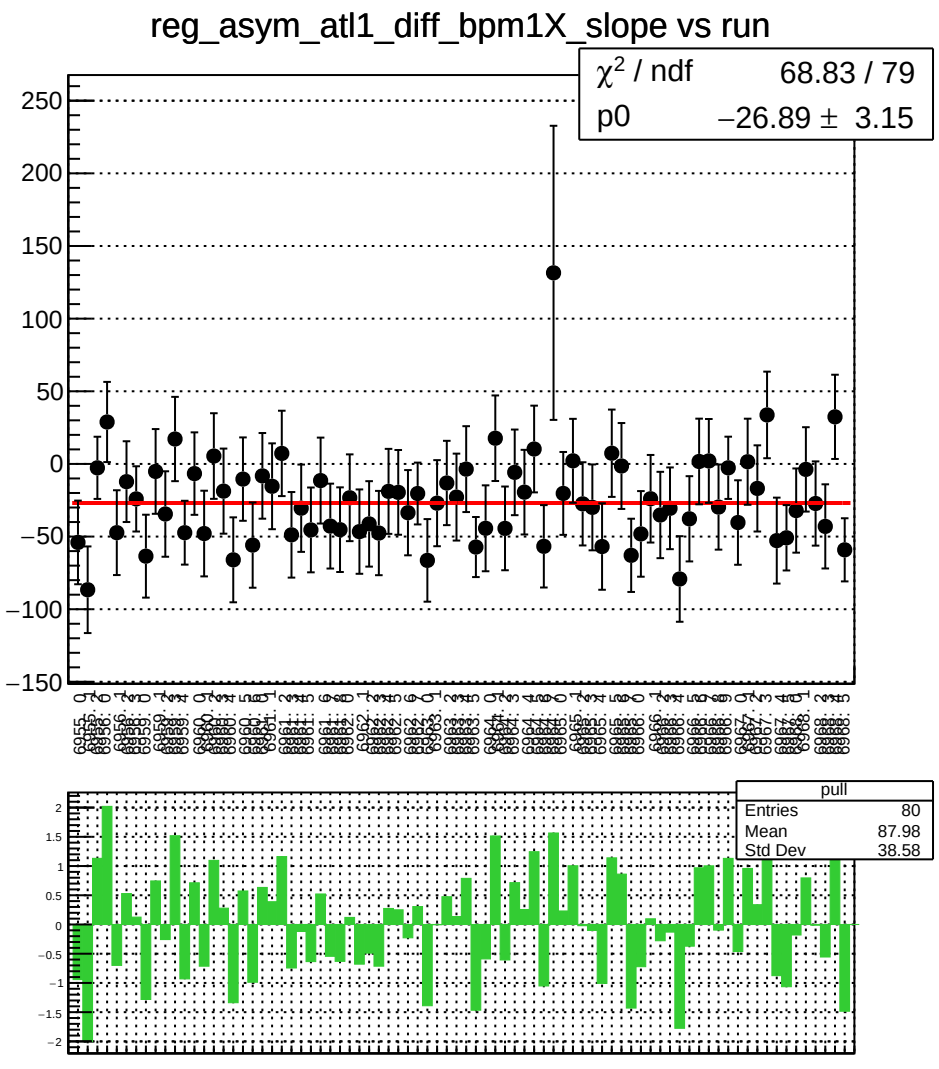

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.057 / 79
p0 −51.3 ± 0.7762
−40
−45
−50
−55
−60
−65
pull
Entries 80
Mean −1225
Std Dev 1281
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

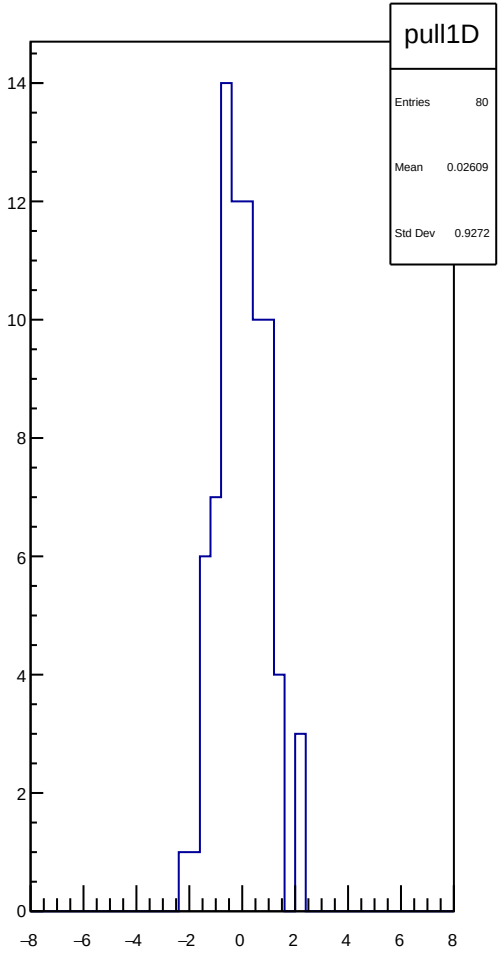

pull1D
Entries 80
Mean 0.0009059
Std Dev 0.3174
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

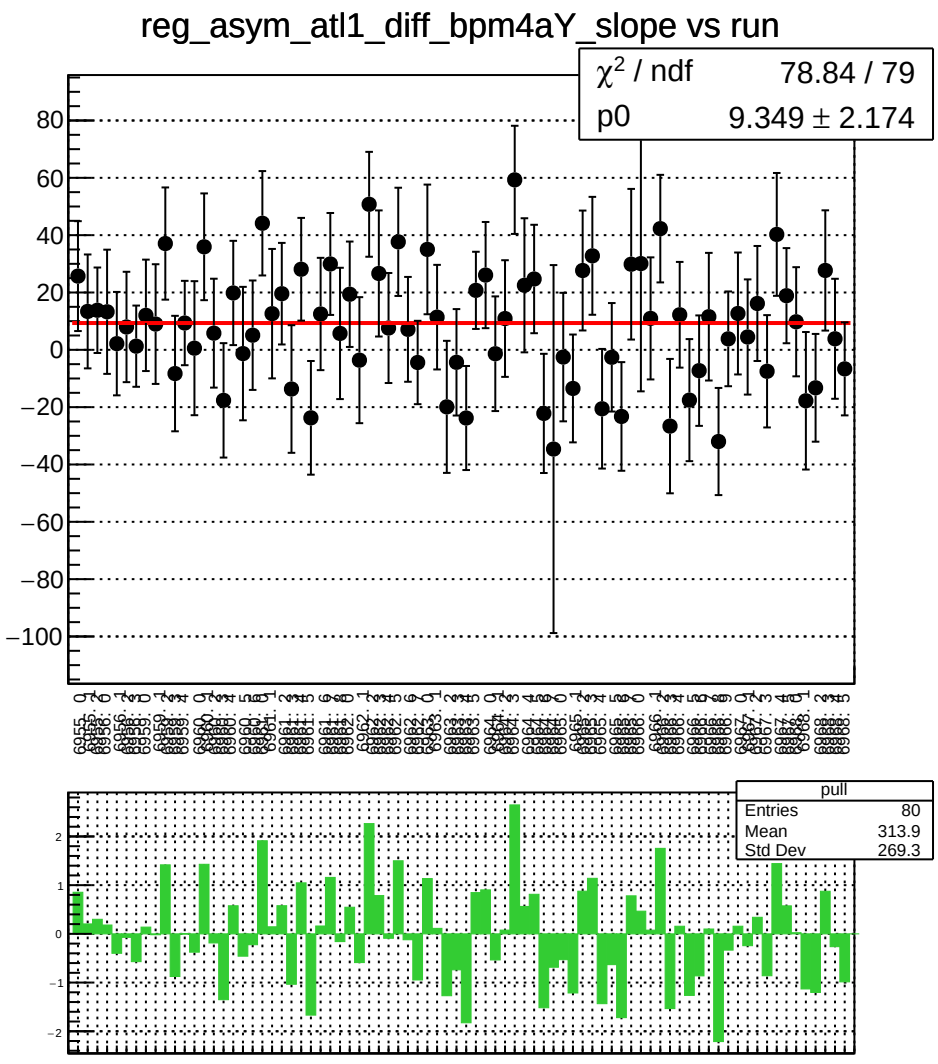

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.016 / 79
p0 34.03 ± 0.6574
pull
Entries 80
Mean 3670
Std Dev 3633
pull1D
Entries 80
Mean −0.000711
Std Dev 0.1941

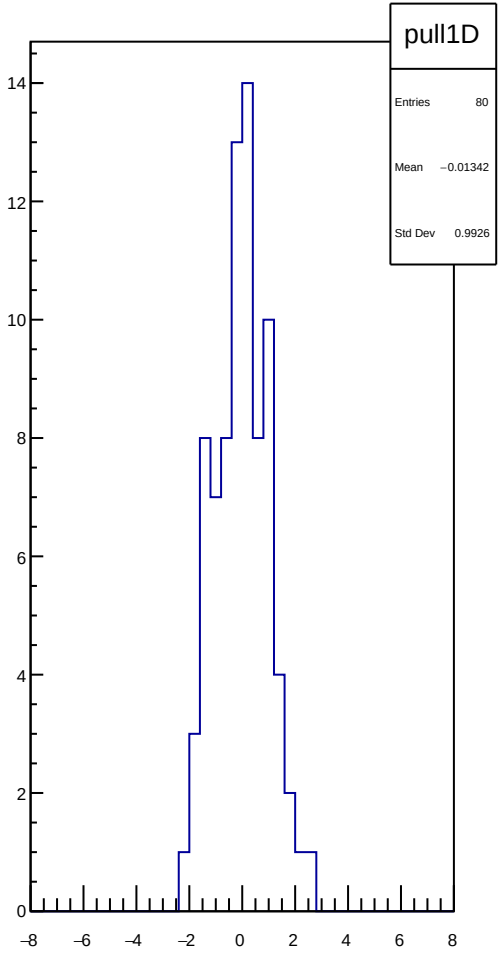

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 5.066 / 79
p0 0.1997 ± 0.02556
pull
Entries 80
Mean −215
Std Dev 229.8

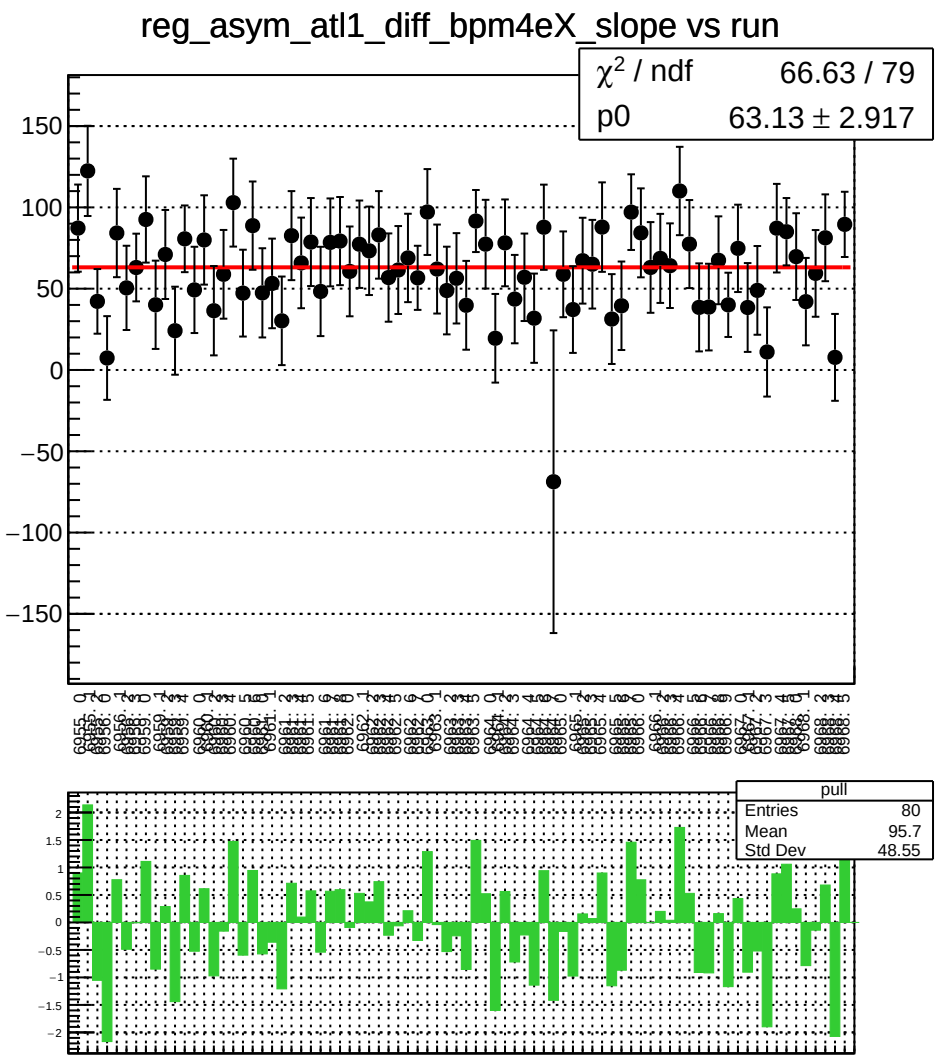

pull1D
Entries 80
Mean −0.003338
Std Dev 0.2516

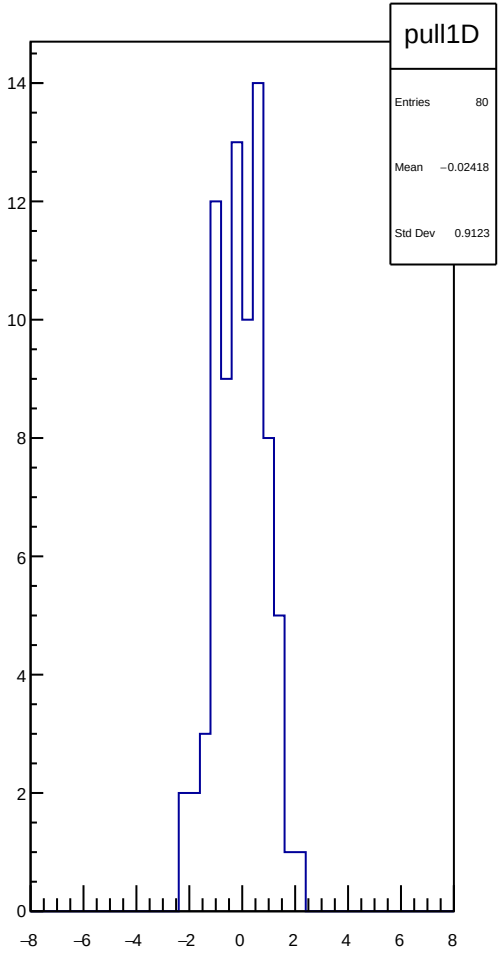

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 68.83 / 79
p0 −26.89 ± 3.15
pull
Entries 80
Mean 87.98
Std Dev 38.58

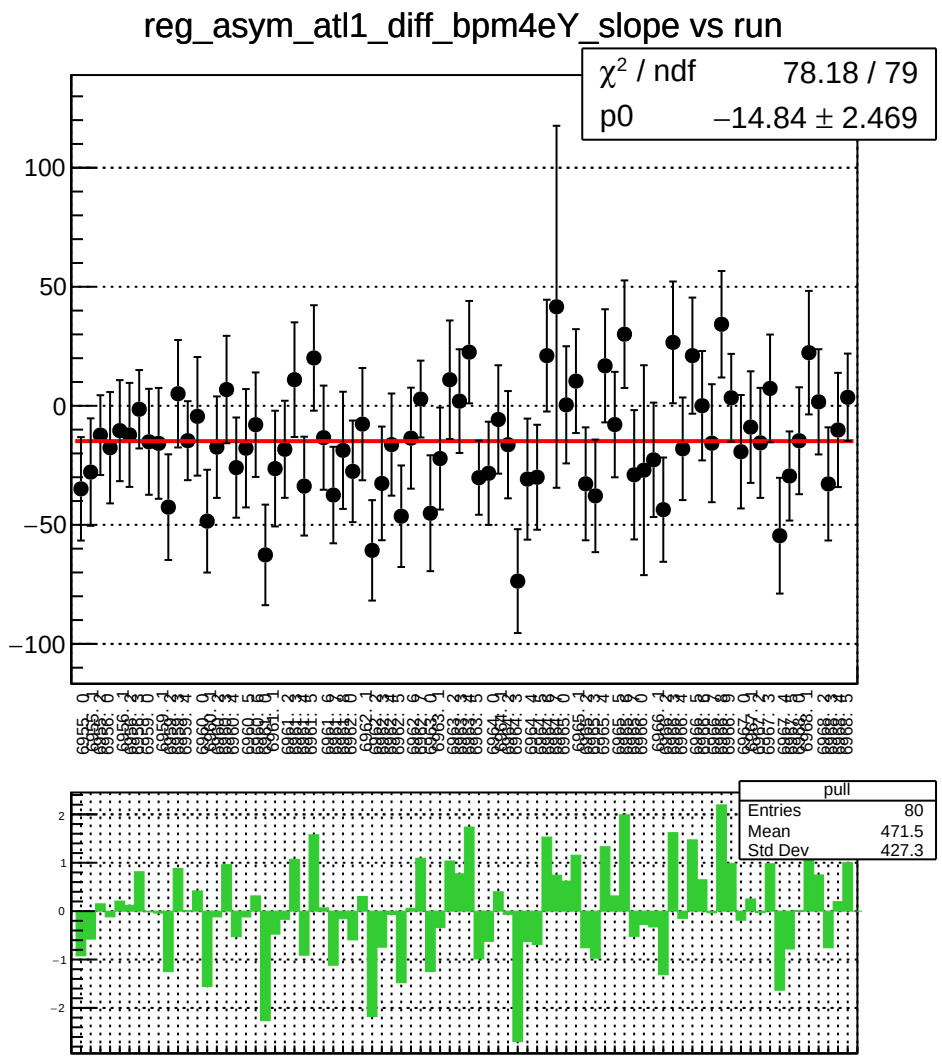

pull1D
Entries 80
Mean 0.02609
Std Dev 0.9272

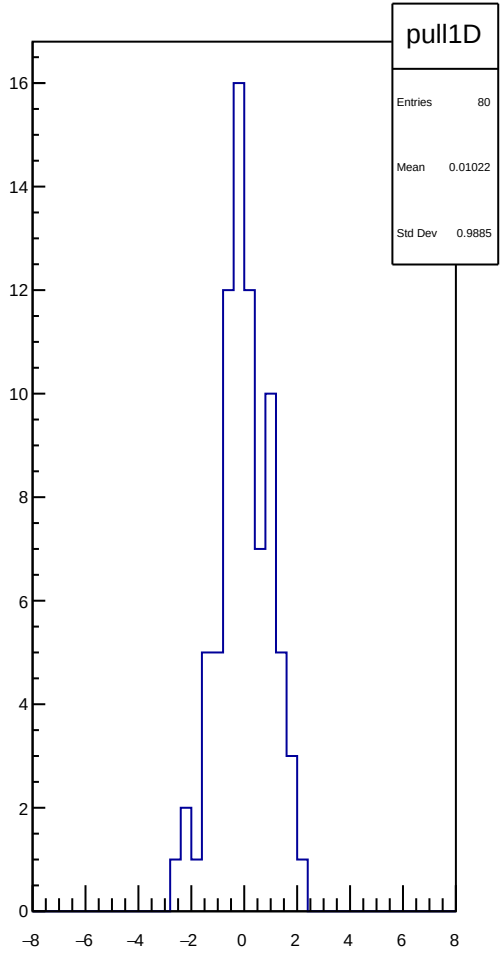

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 78.84 / 79
p0 9.349 ± 2.174
pull
Entries 80
Mean 313.9
Std Dev 269.3

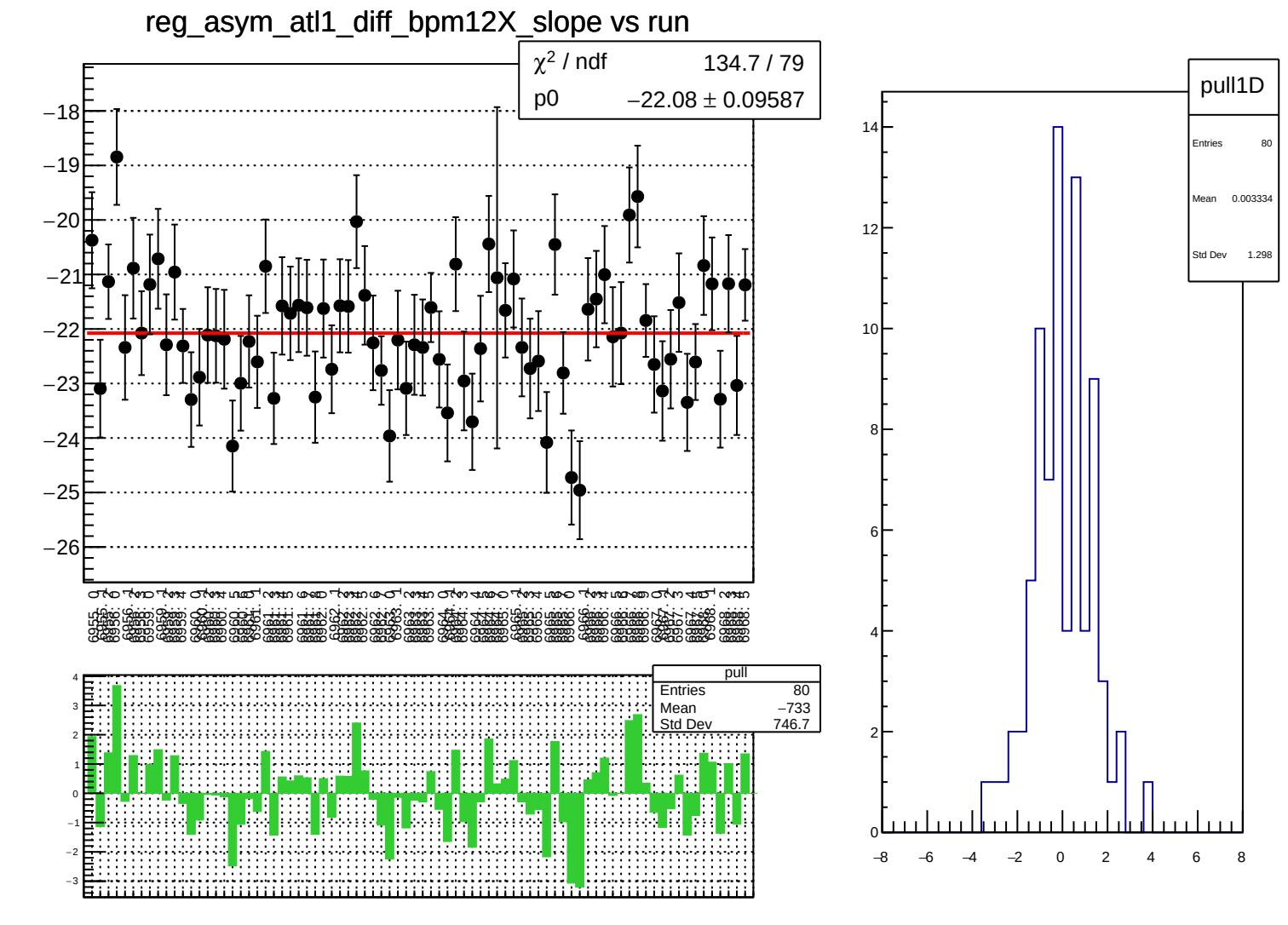

pull1D
Entries 80
Mean −0.01342
Std Dev 0.9926

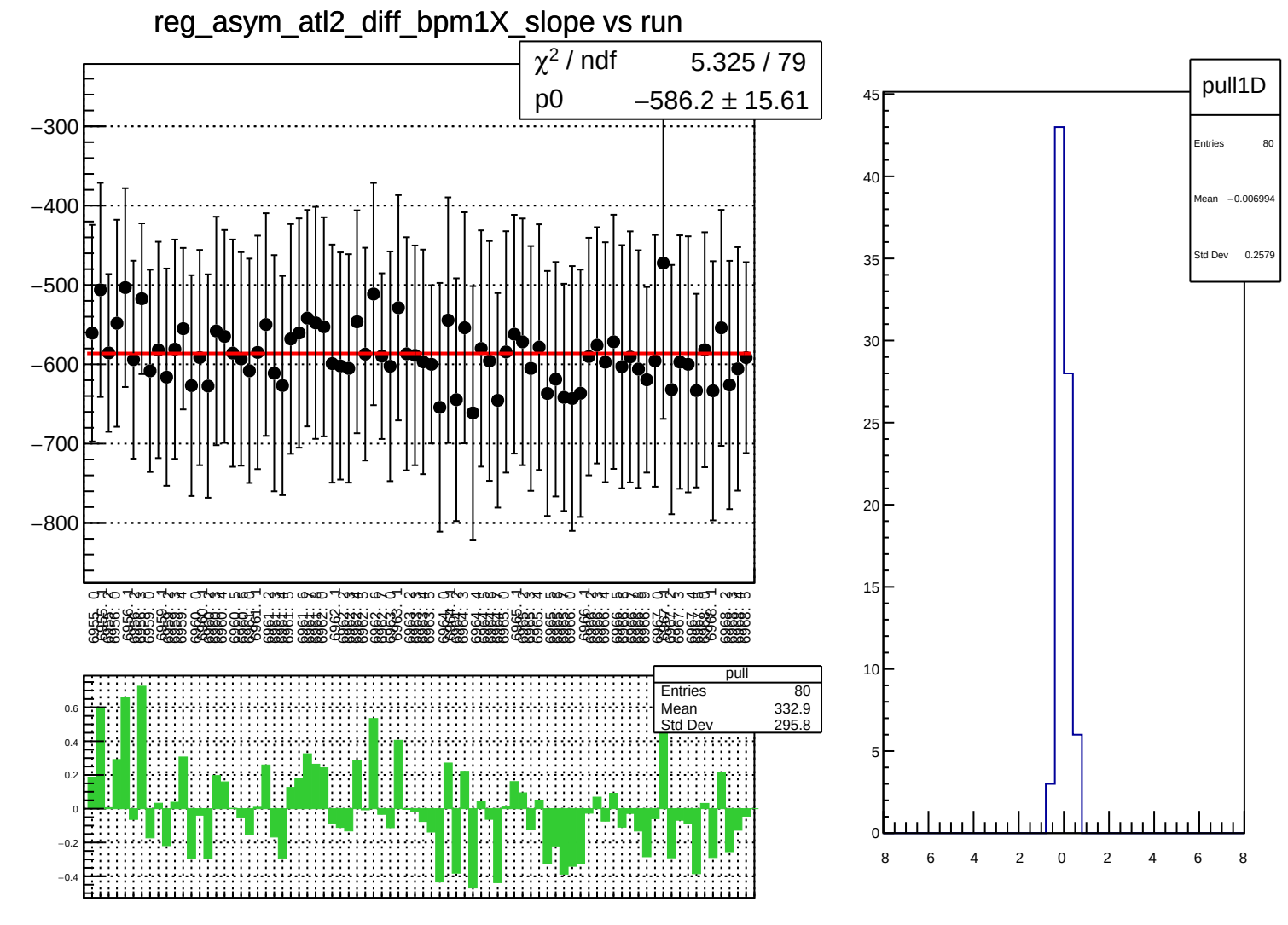

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 66.63 / 79
p0 63.13 ± 2.917
150
100
50
0
−50
−100
−150
pull
Entries 80
Mean 95.7
Std Dev 48.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

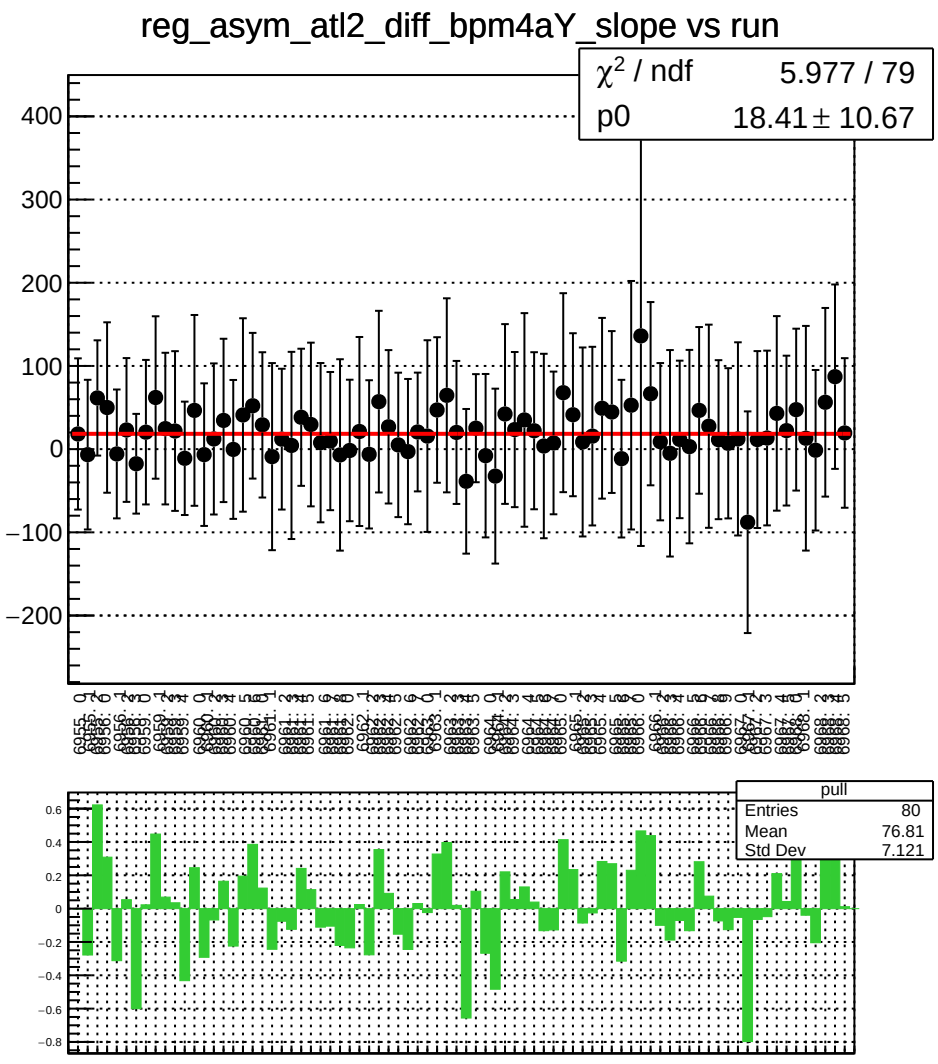

pull1D
Entries 80
Mean −0.02418
Std Dev 0.9123
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

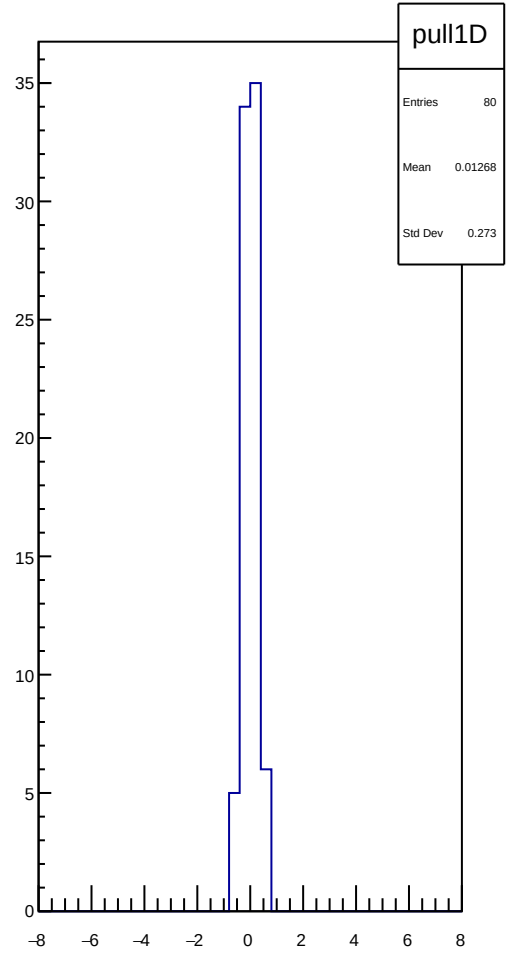

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 78.18 / 79
p0 −14.84 ± 2.469
100
50
0
−50
−100
pull
Entries 80
Mean 471.5
Std Dev 427.3
2
1
0
−1
−2

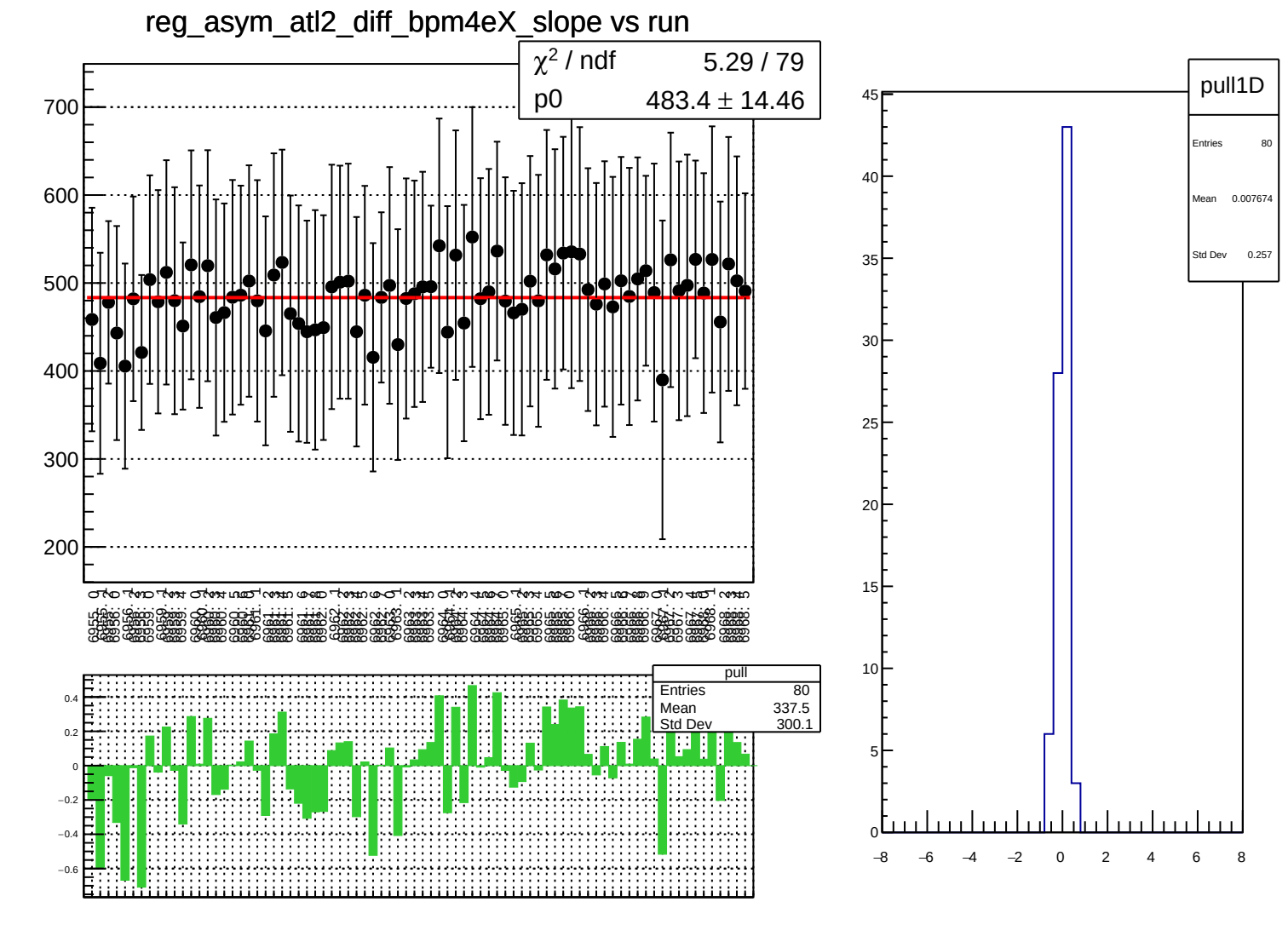

pull1D
Entries 80
Mean 0.01022
Std Dev 0.9885
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

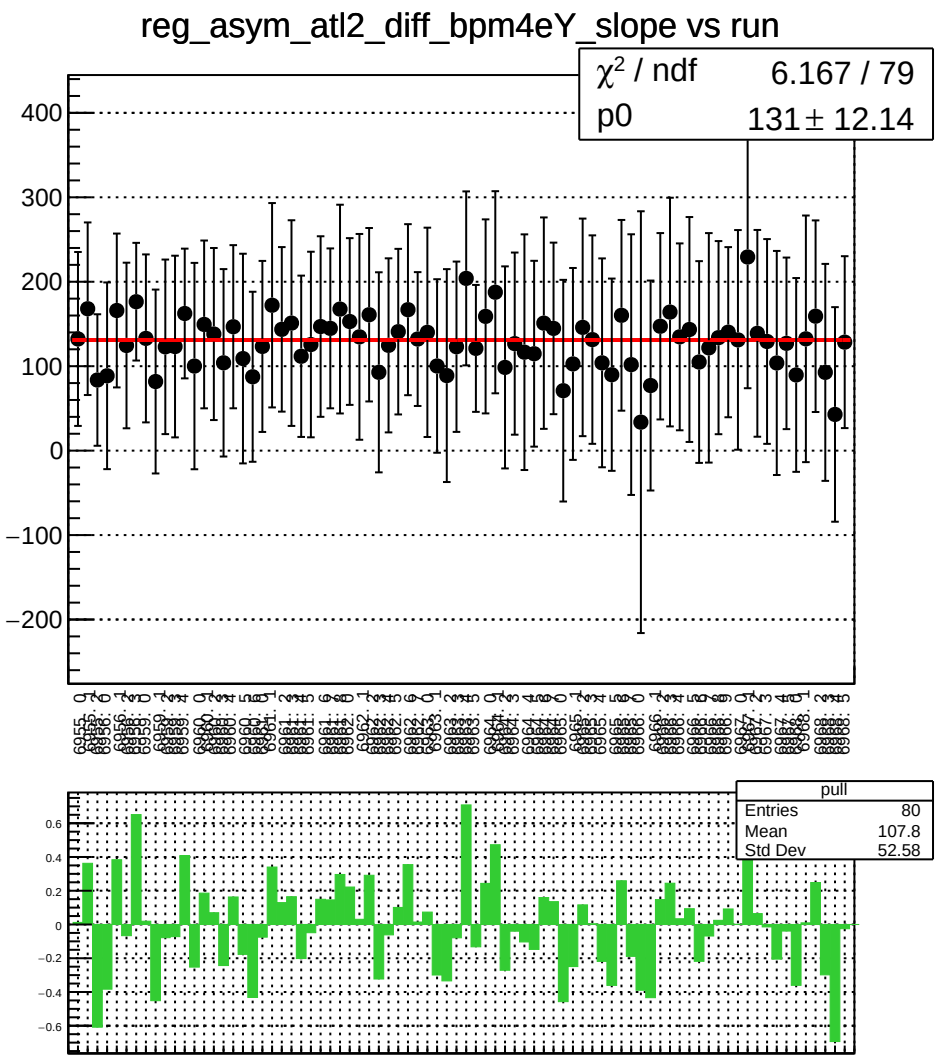

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 134.7 / 79
p0 −22.08 ± 0.09587
pull
Entries 80
Mean −733
Std Dev 746.7
pull1D
Entries 80
Mean 0.003334
Std Dev 1.298

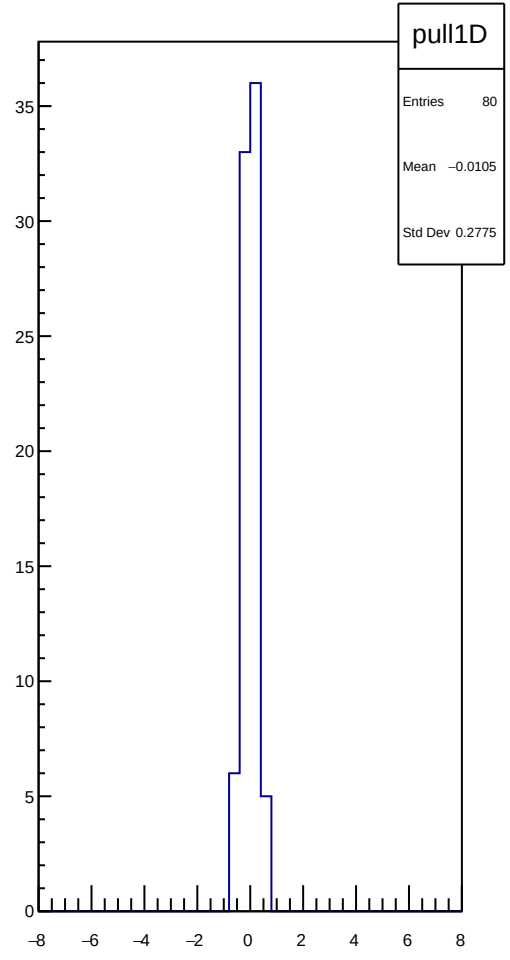

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 5.325 / 79
p0 −586.2 ± 15.61
pull
Entries 80
Mean 332.9
Std Dev 295.8
pull1D
Entries 80
Mean −0.006994
Std Dev 0.2579

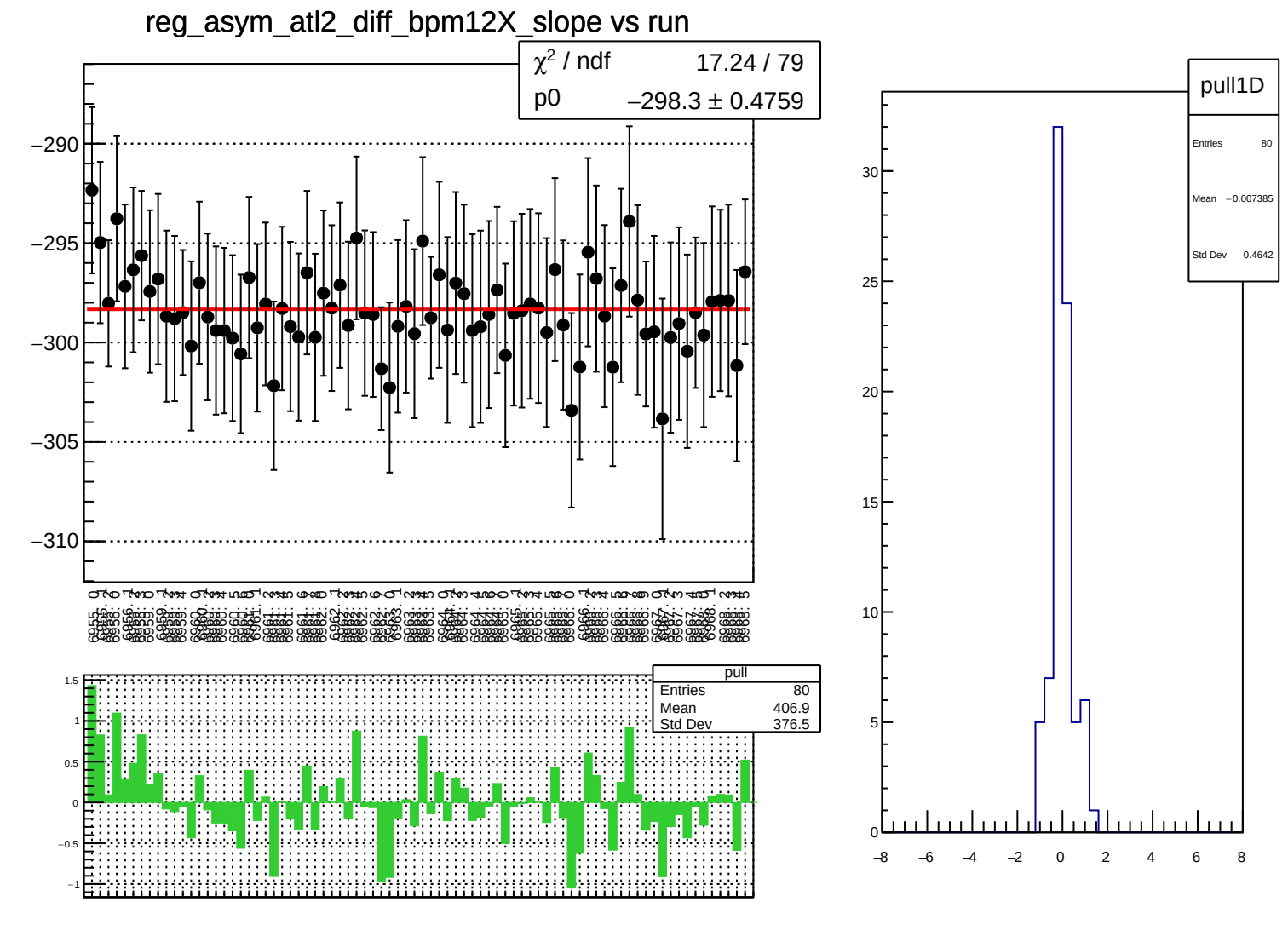

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.977 / 79
p0 18.41 ± 10.67
pull
Entries 80
Mean 76.81
Std Dev 7.121

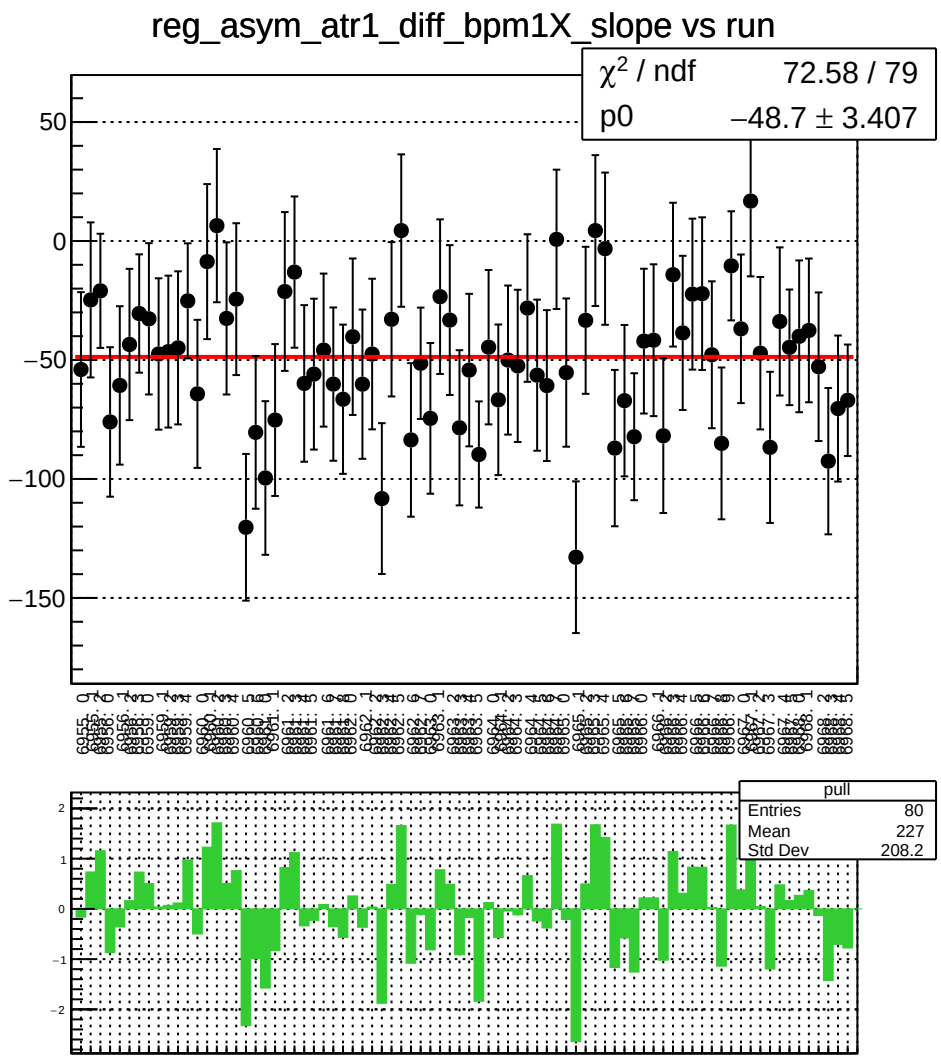

pull1D
Entries 80
Mean 0.01268
Std Dev 0.273

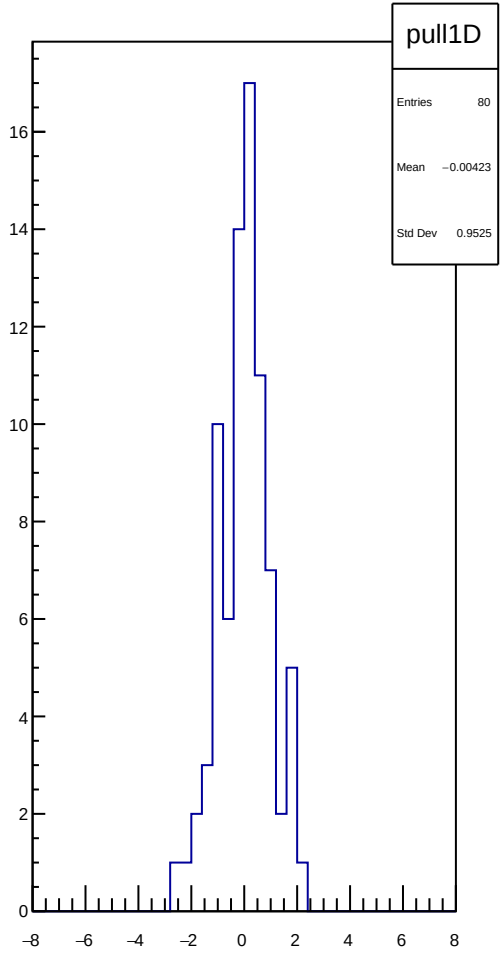

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 5.29 / 79
p0 483.4 ± 14.46
700
600
500
400
300
200
pull
Entries 80
Mean 337.5
Std Dev 300.1
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 80
Mean 0.007674
Std Dev 0.257
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

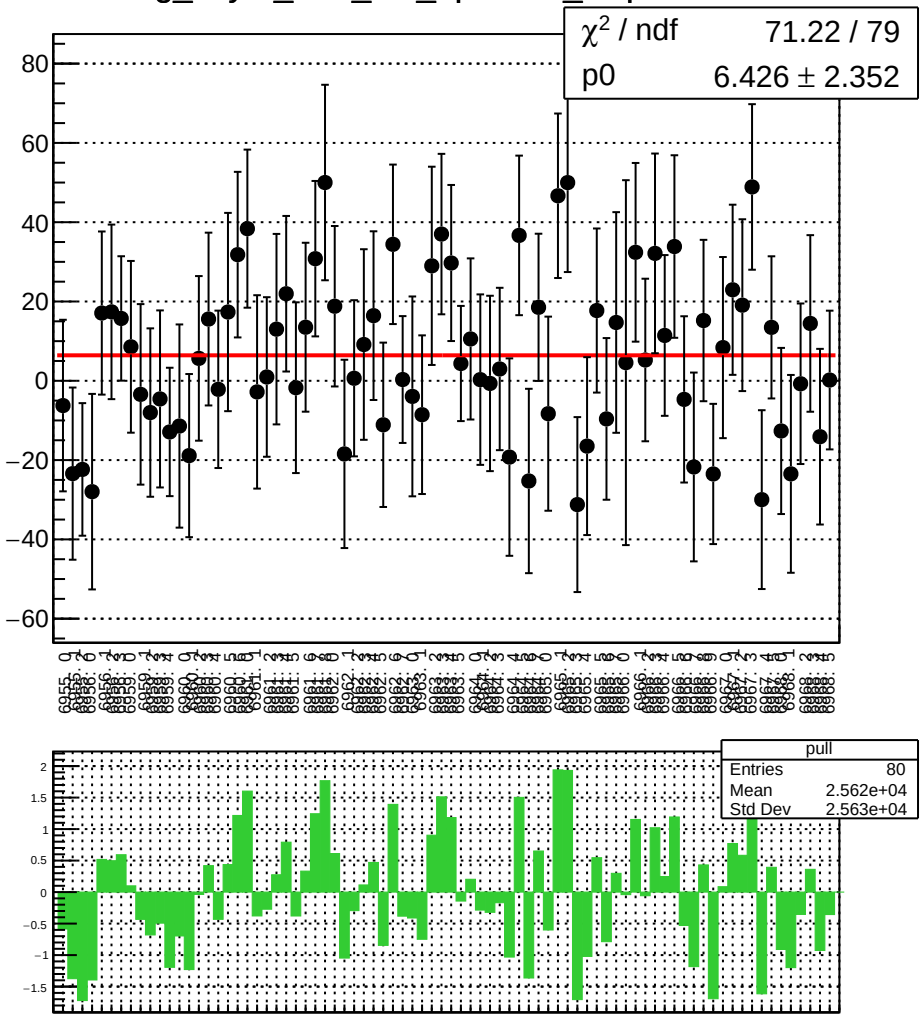

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 6.167 / 79
p0 131 ± 12.14
pull
Entries 80
Mean 107.8
Std Dev 52.58

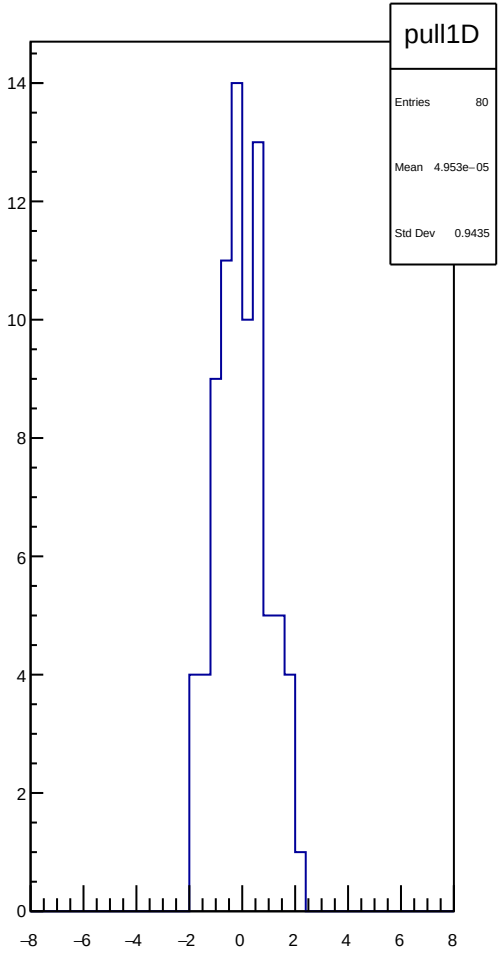

pull1D
Entries 80
Mean −0.0105
Std Dev 0.2775

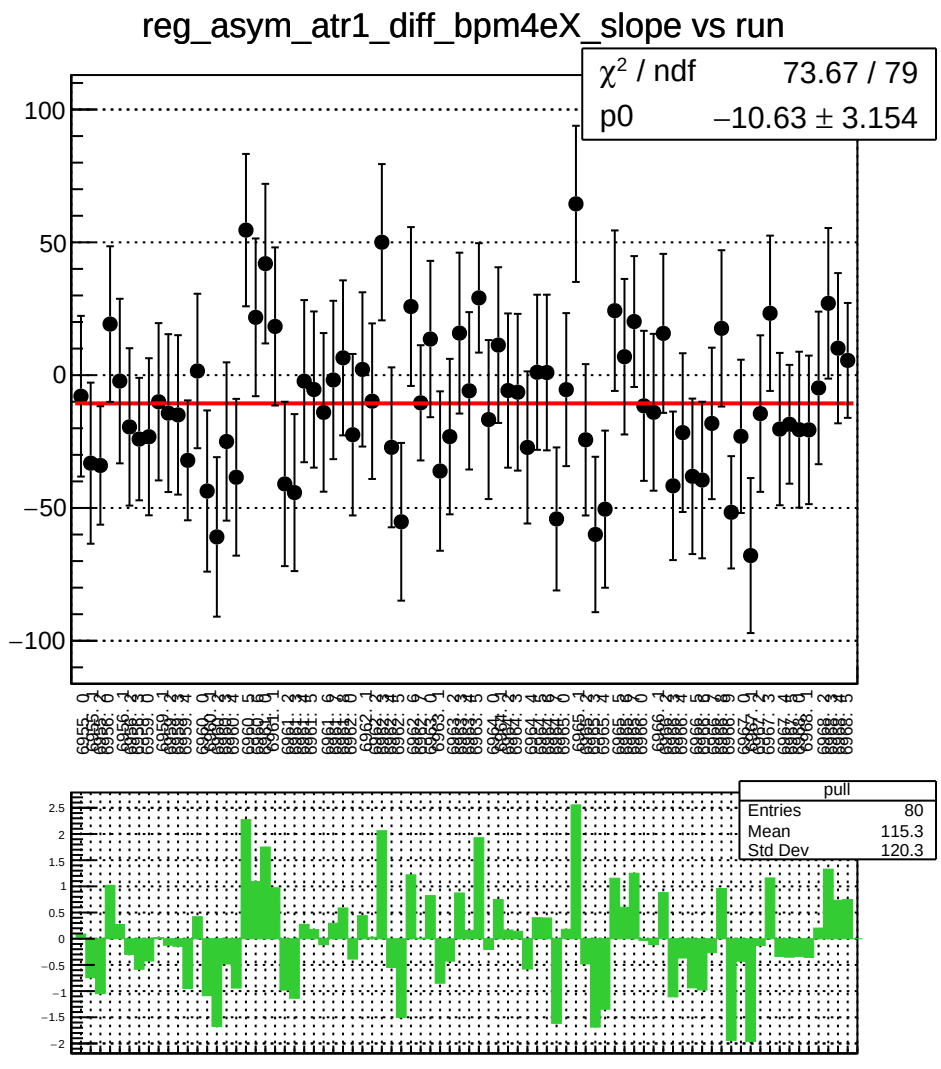

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 17.24 / 79
p0 −298.3 ± 0.4759
−290
−295
−300
−305
−310
pull
Entries 80
Mean 406.9
Std Dev 376.5
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 80
Mean −0.007385
Std Dev 0.4642
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

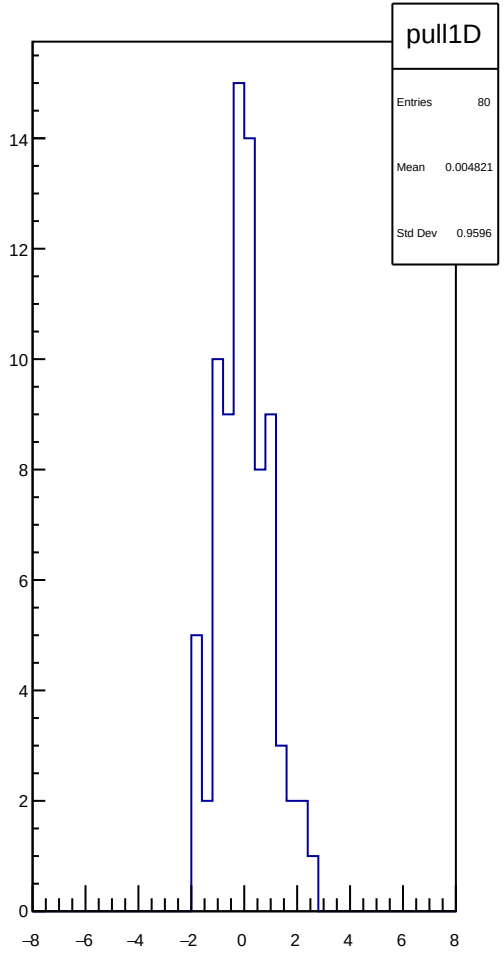

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 72.58 / 79
p0 −48.7 ± 3.407
50
0
−50
−100
−150
pull
Entries 80
Mean 227
Std Dev 208.2
2
1
0
−1
−2

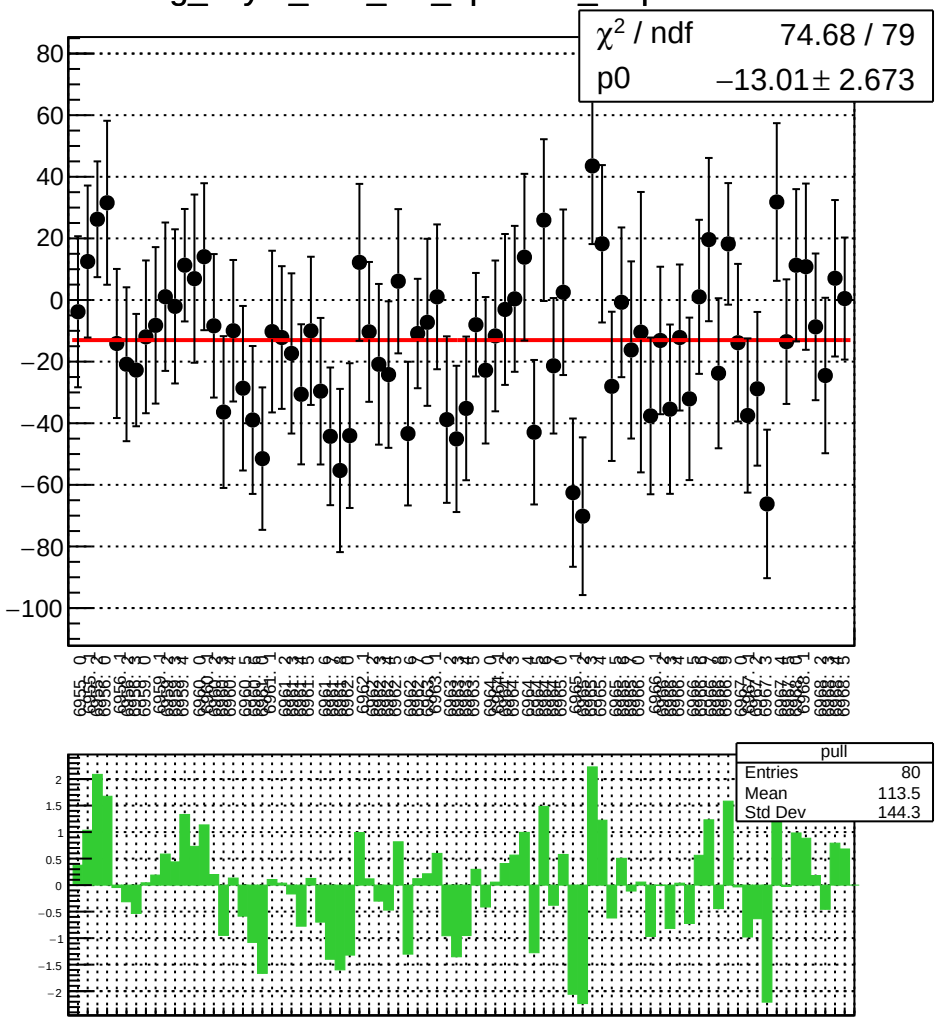

pull1D
Entries 80
Mean −0.00423
Std Dev 0.9525
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

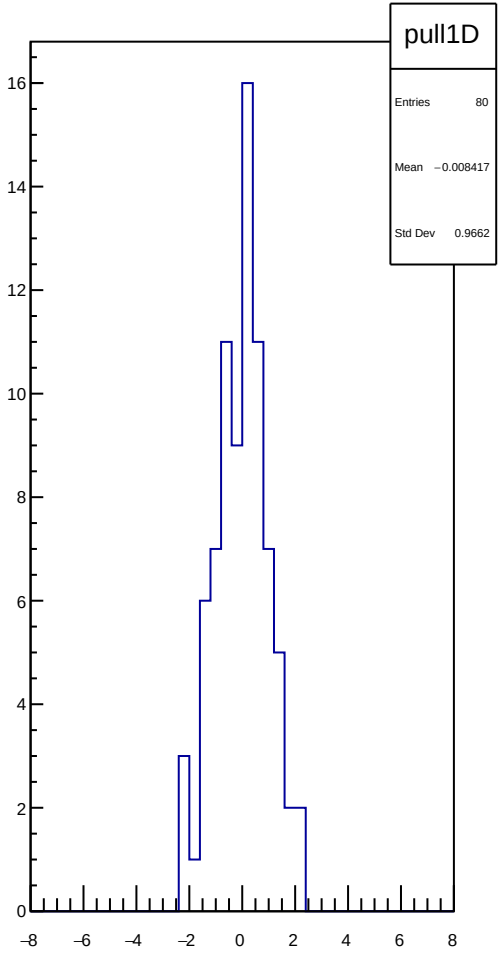

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 71.22 / 79
p0 6.426 ± 2.352
pull
Entries 80
Mean 2.562e+04
Std Dev 2.563e+04

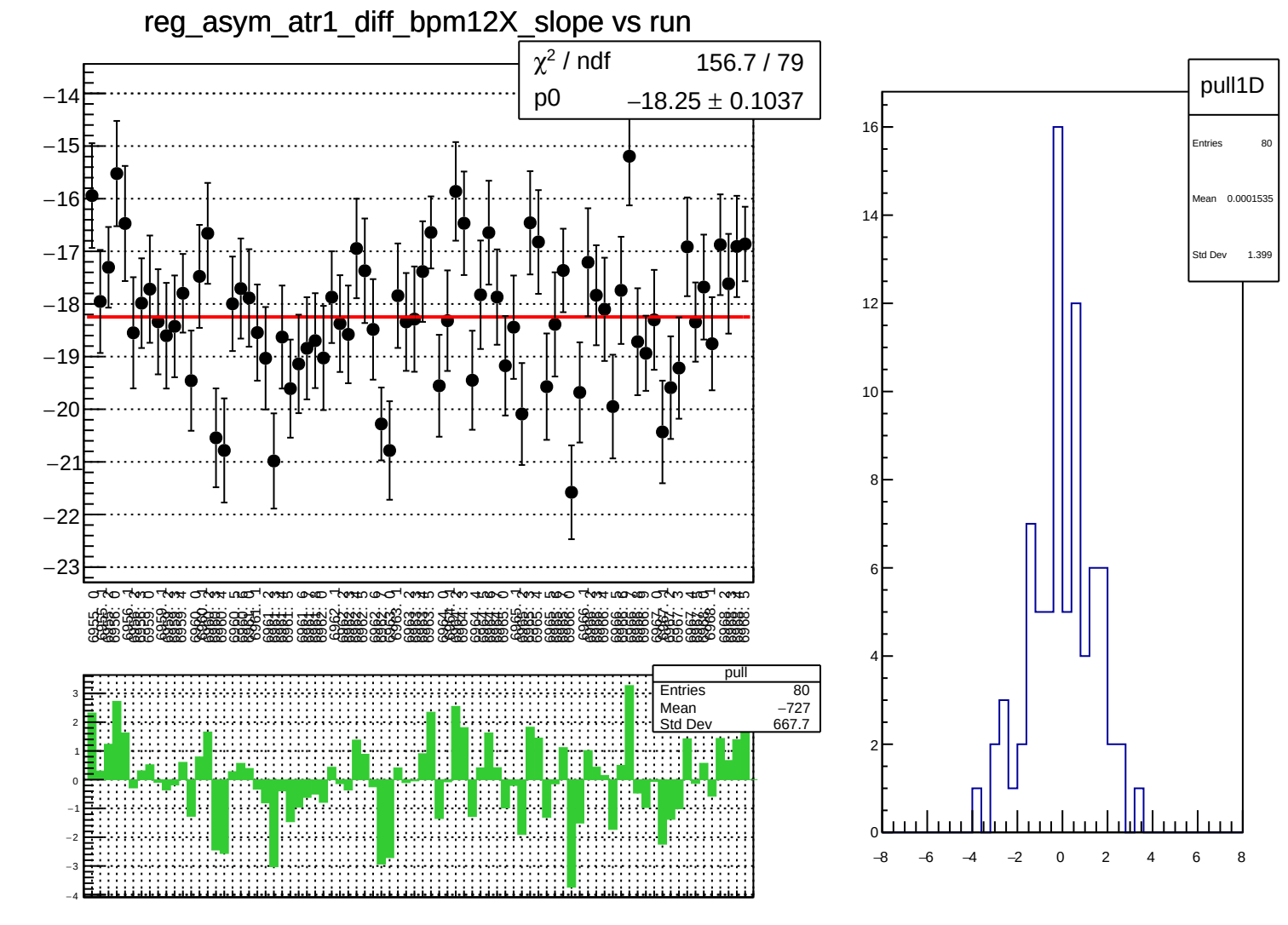

pull1D
Entries 80
Mean 4.953e−05
Std Dev 0.9435

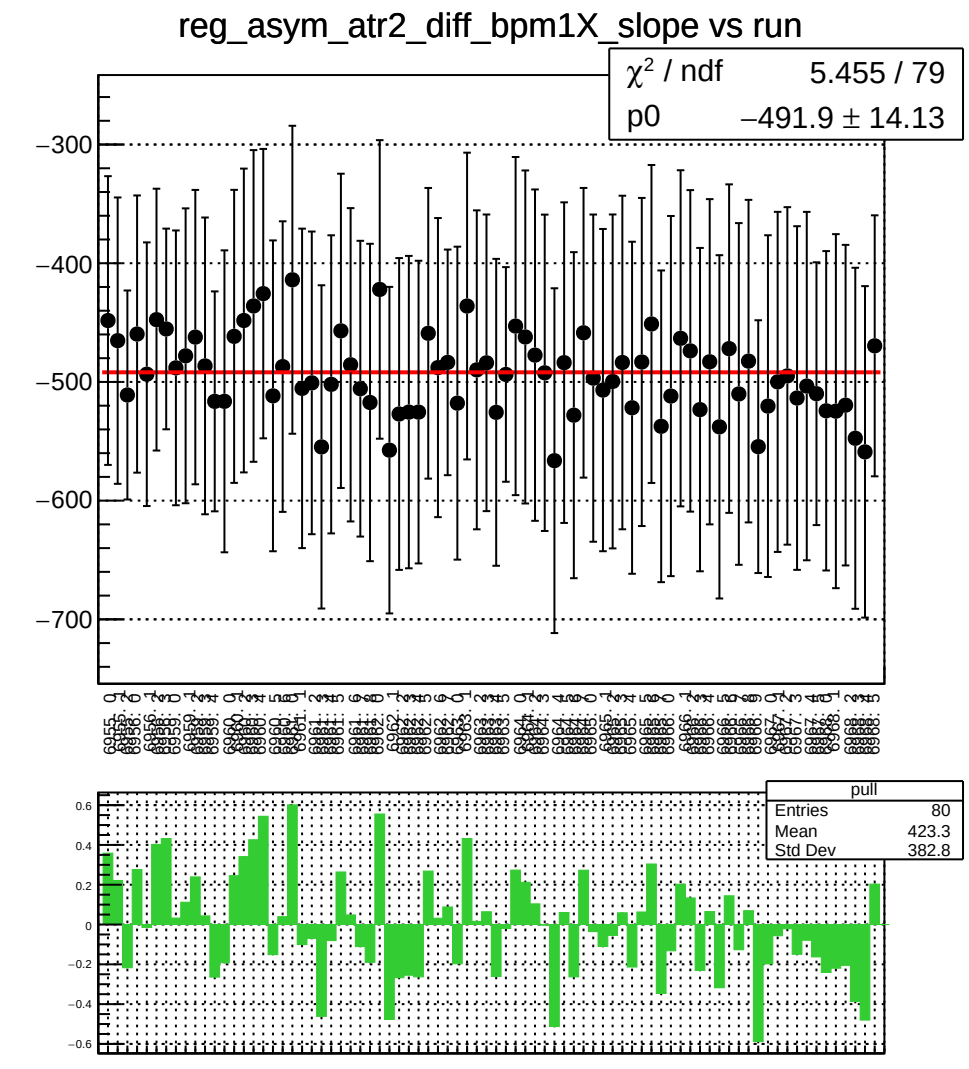

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 73.67 / 79
p0 −10.63 ± 3.154
100
50
0
−50
−100
pull
Entries 80
Mean 115.3
Std Dev 120.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

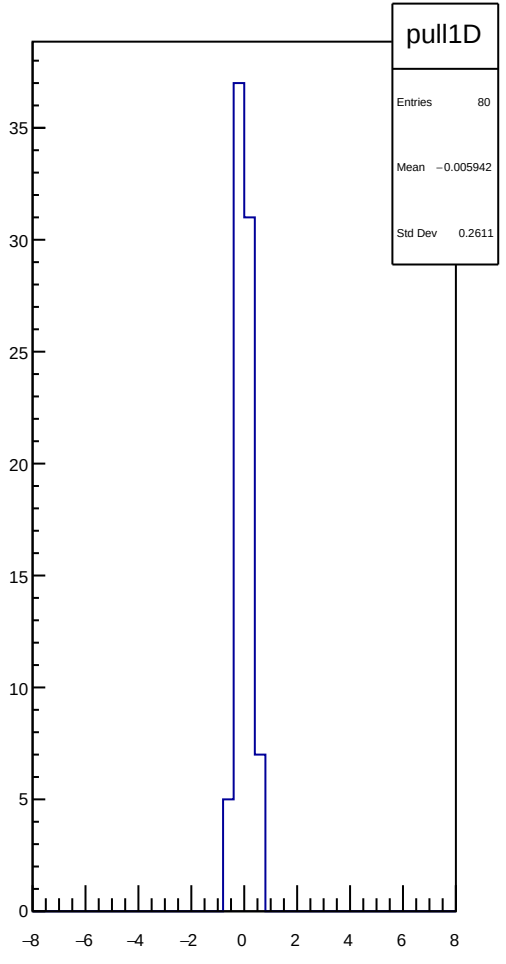

pull1D
Entries 80
Mean 0.004821
Std Dev 0.9596
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

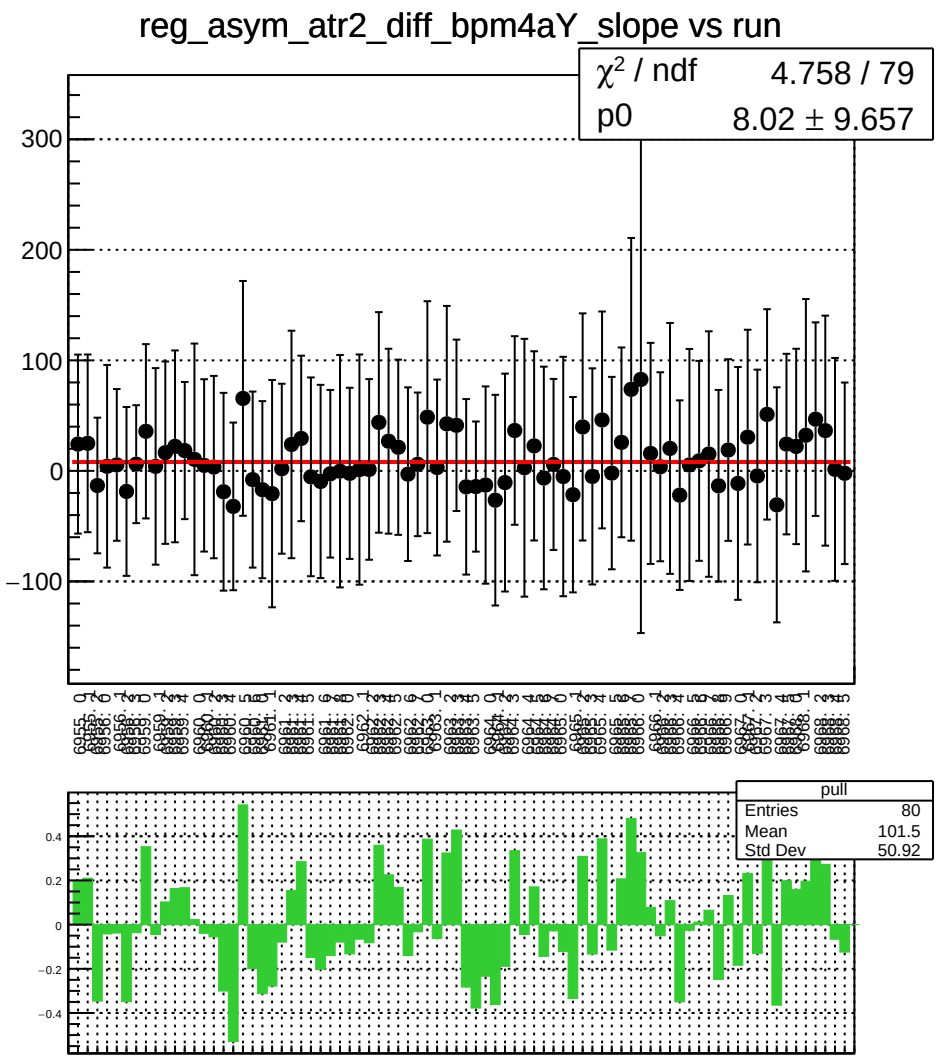

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 74.68 / 79
p0 −13.01± 2.673
pull
Entries 80
Mean 113.5
Std Dev 144.3

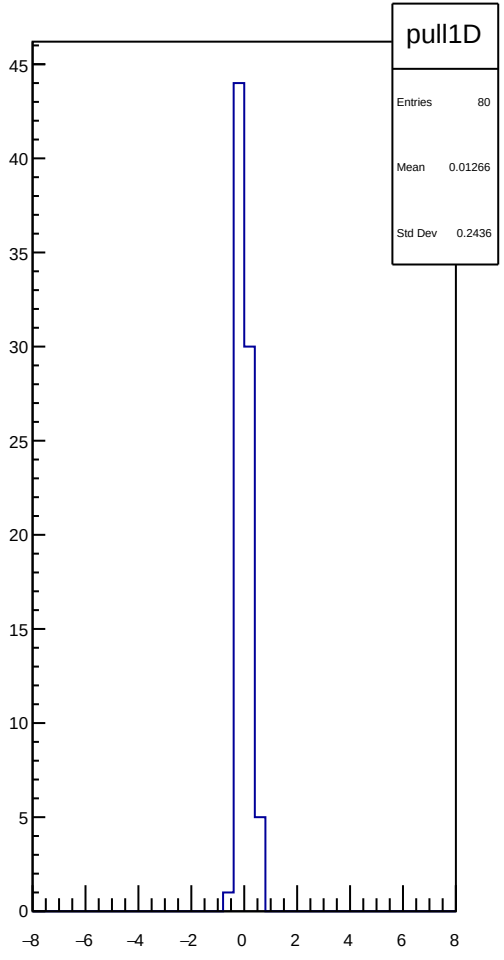

pull1D
Entries 80
Mean −0.008417
Std Dev 0.9662

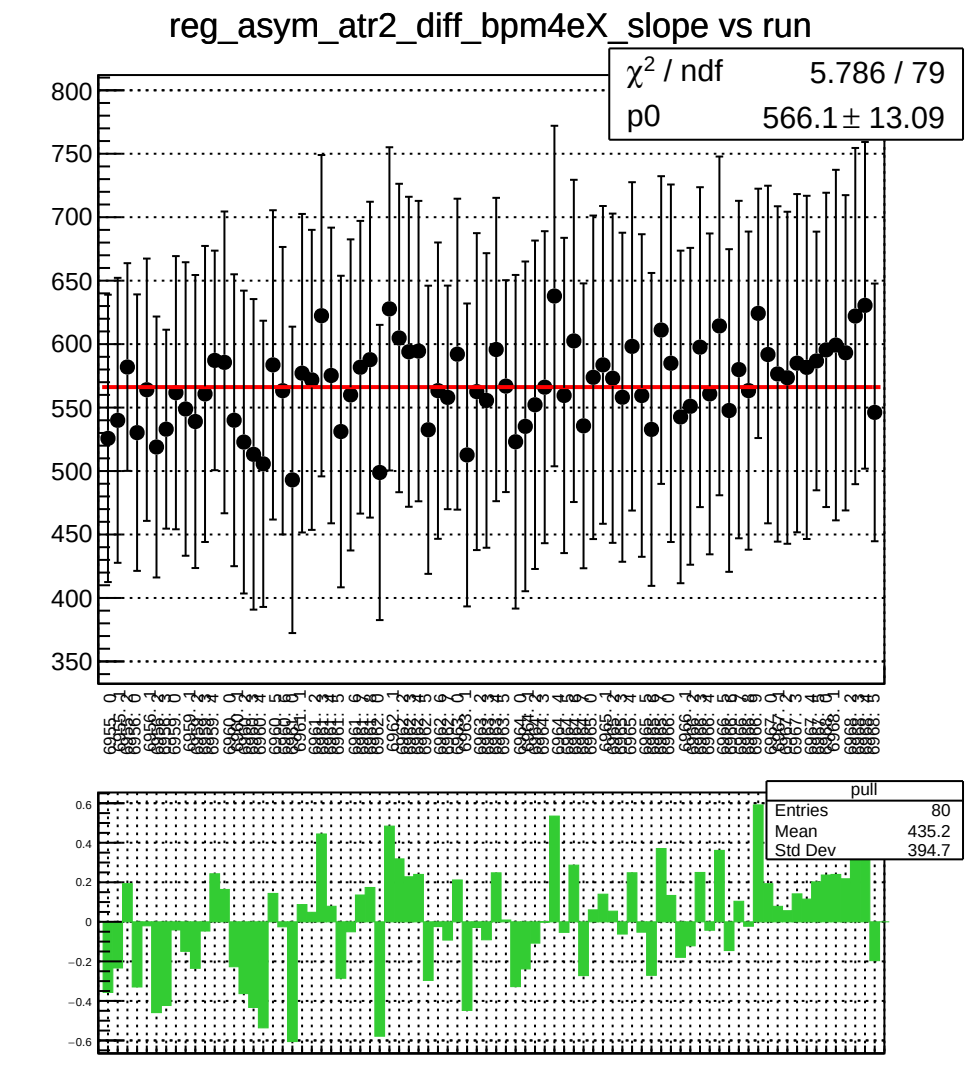

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 156.7 / 79
p0 −18.25 ± 0.1037
pull
Entries 80
Mean −727
Std Dev 667.7
pull1D
Entries 80
Mean 0.0001535
Std Dev 1.399

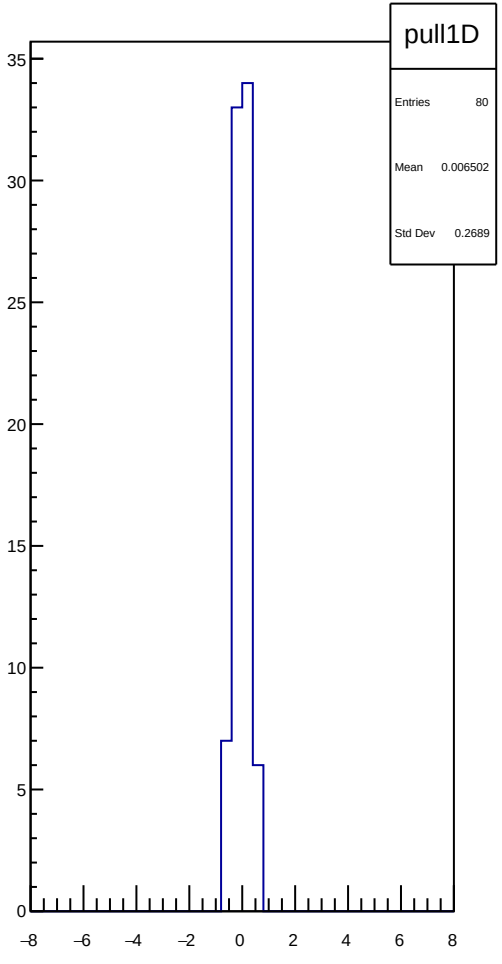

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 5.455 / 79
p0 −491.9 ± 14.13
−300
−400
−500
−600
−700
pull
Entries 80
Mean 423.3
Std Dev 382.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

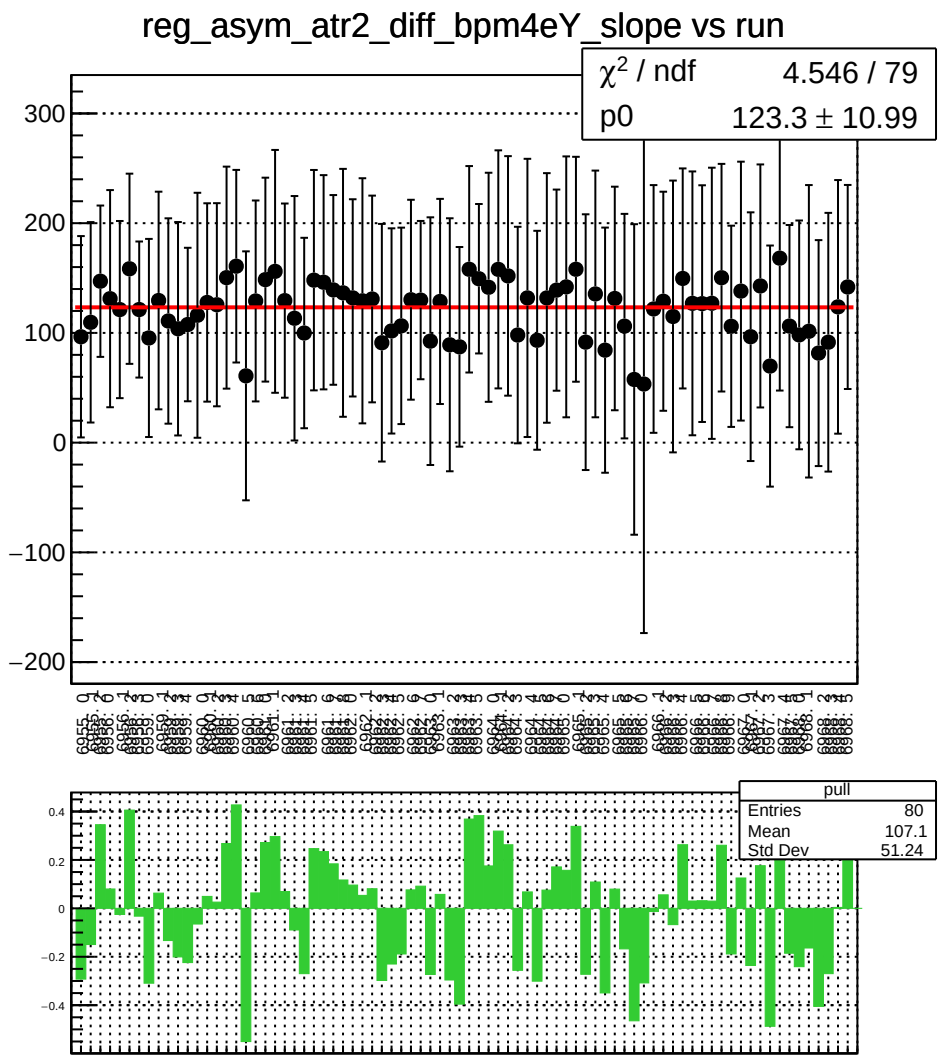

pull1D
Entries 80
Mean −0.005942
Std Dev 0.2611
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

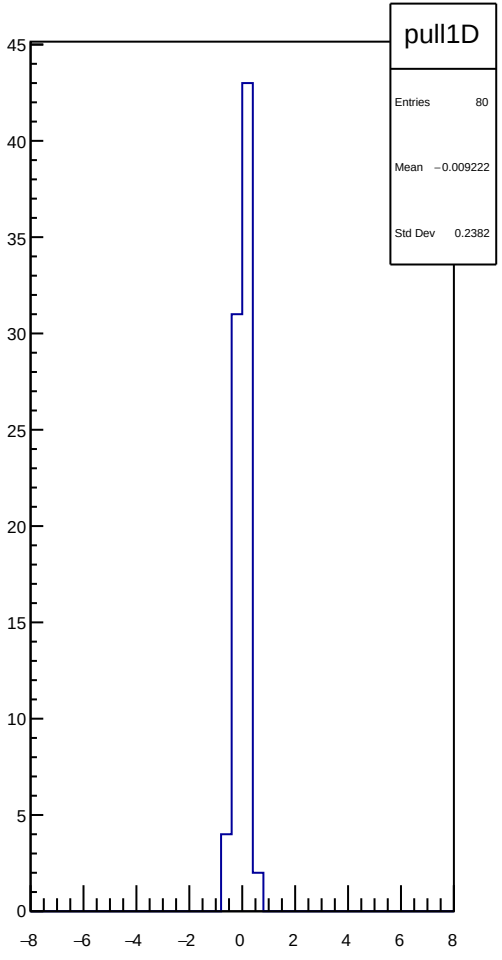

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 4.758 / 79
p0 8.02 ± 9.657
300
200
100
0
−100
pull
Entries 80
Mean 101.5
Std Dev 50.92
0.4
0.2
0
−0.2
−0.4

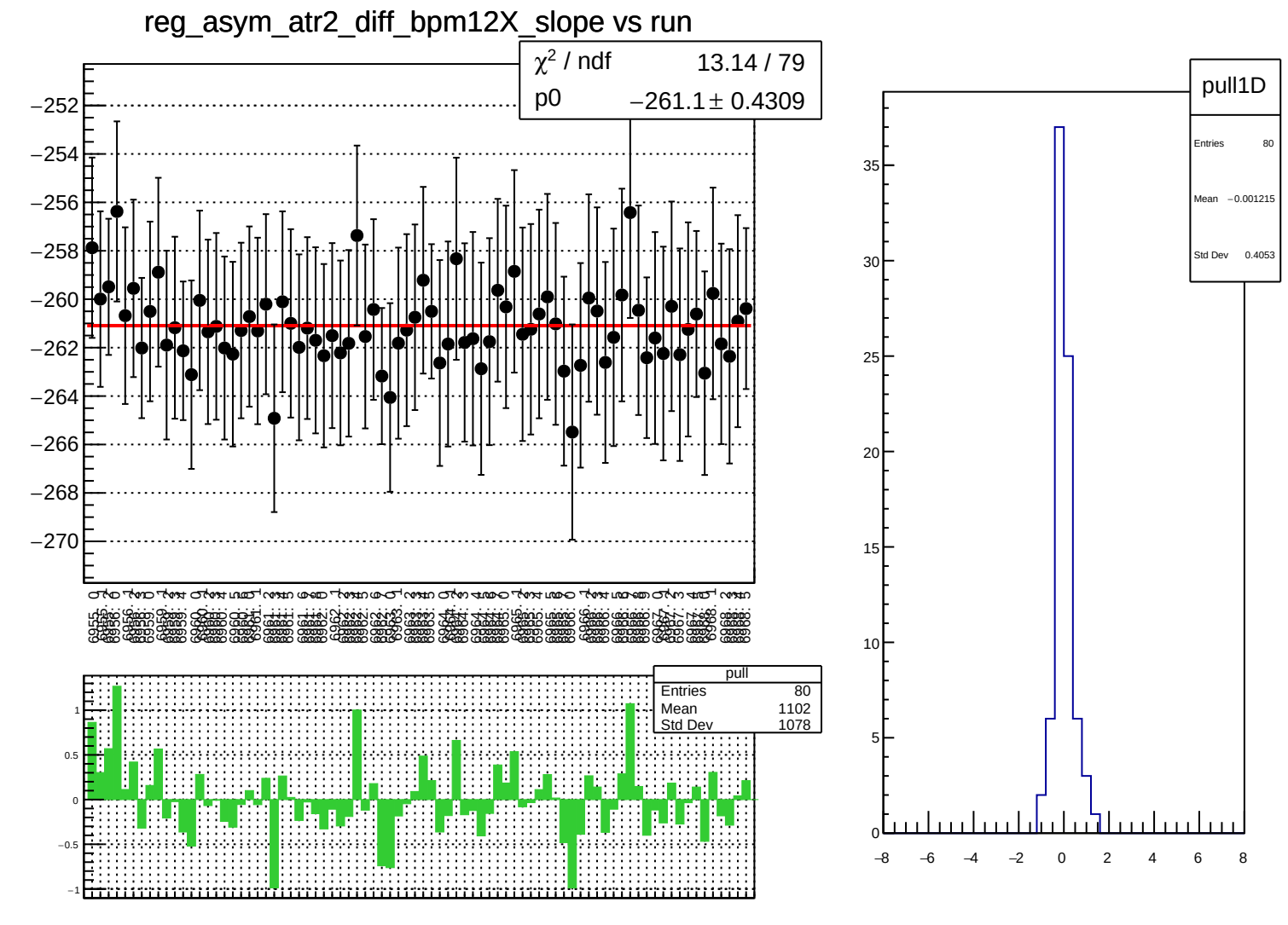

pull1D
Entries 80
Mean 0.01266
Std Dev 0.2436
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

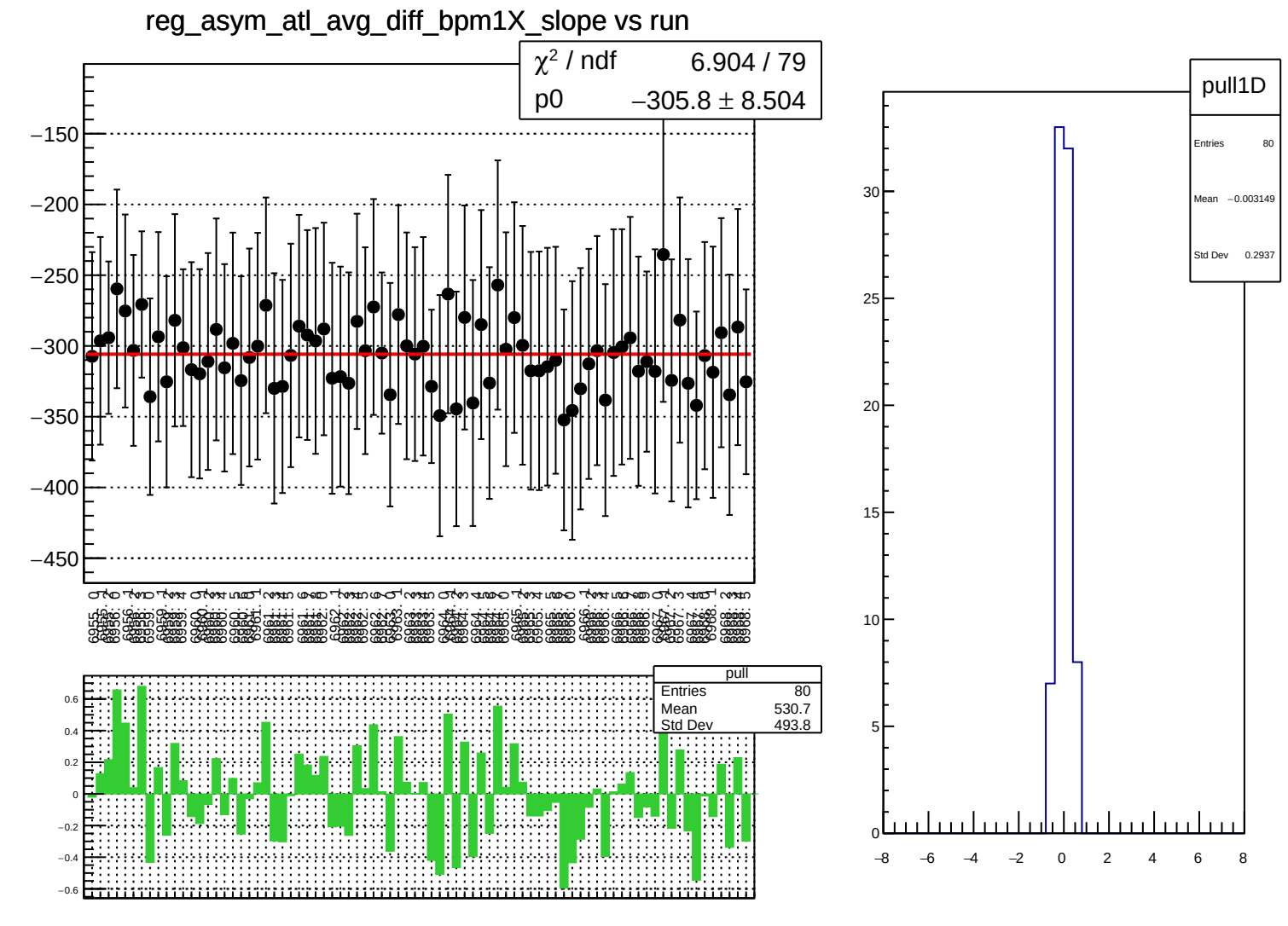

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 5.786 / 79
p0 566.1 ± 13.09
pull
Entries 80
Mean 435.2
Std Dev 394.7

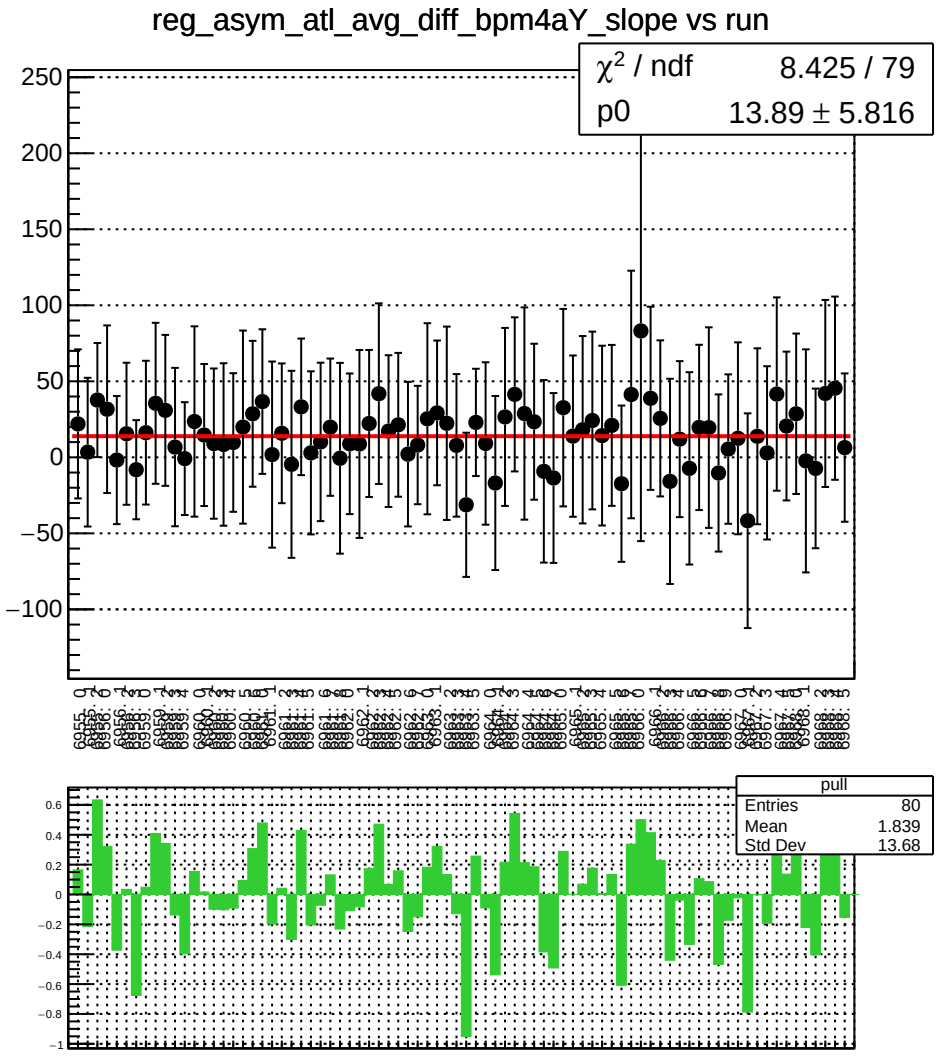

pull1D
Entries 80
Mean 0.006502
Std Dev 0.2689

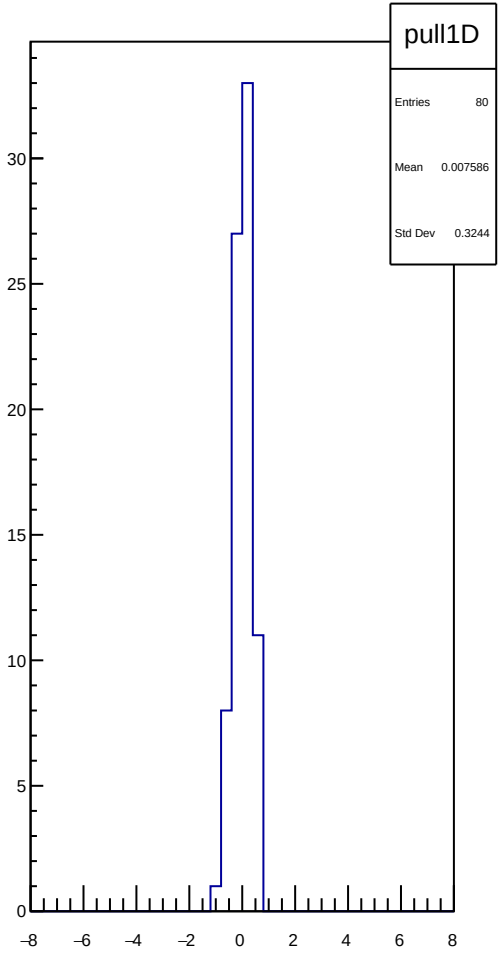

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 4.546 / 79
p0 123.3 ± 10.99
pull
Entries 80
Mean 107.1
Std Dev 51.24

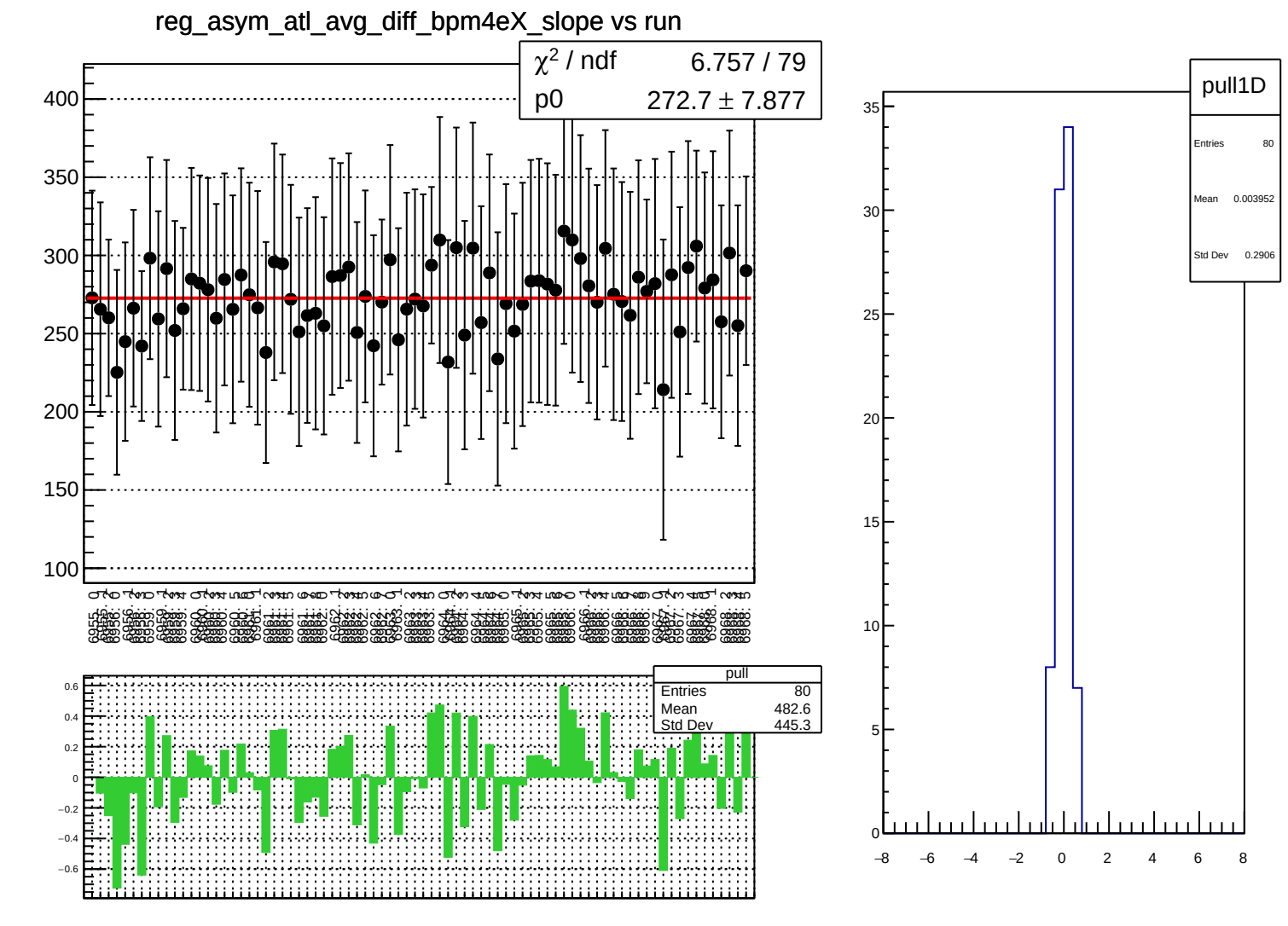

pull1D
Entries 80
Mean −0.009222
Std Dev 0.2382

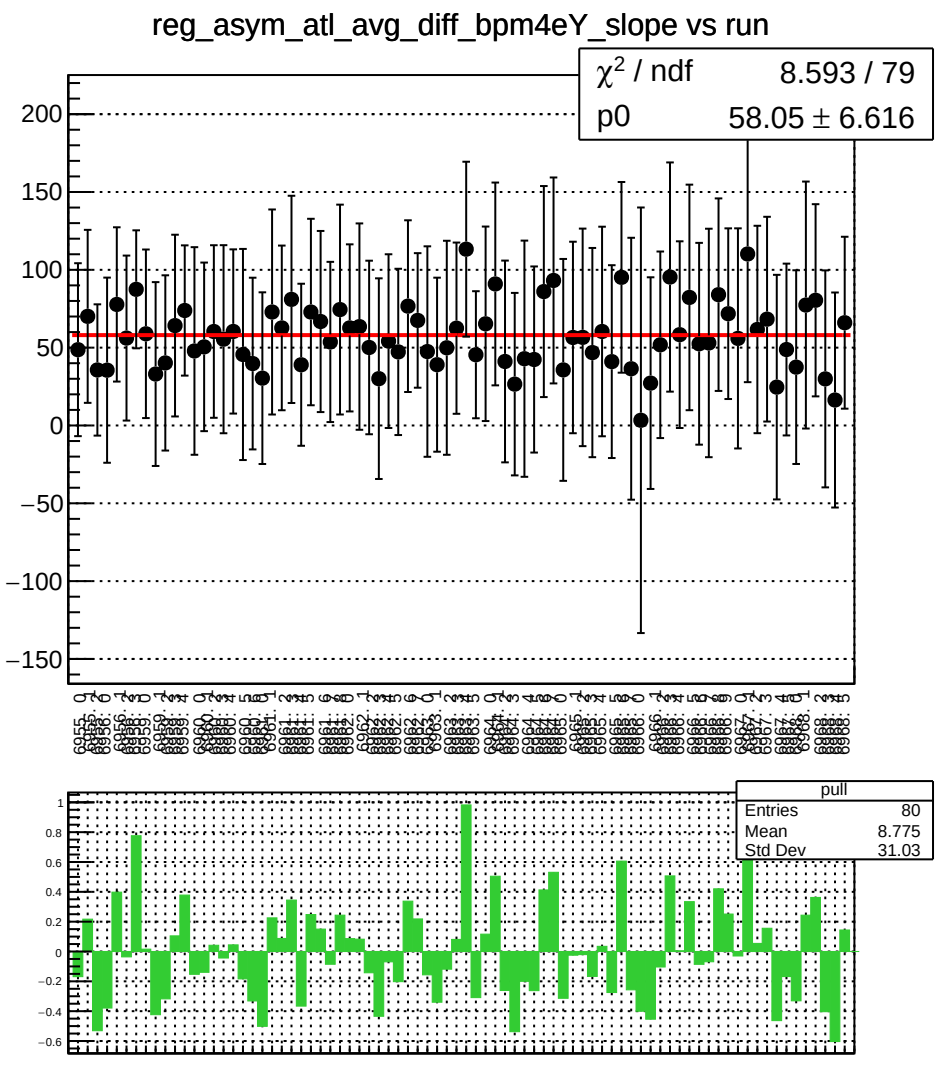

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 13.14 / 79
p0 −261.1 ± 0.4309
pull
Entries 80
Mean 1102
Std Dev 1078
pull1D
Entries 80
Mean −0.001215
Std Dev 0.4053

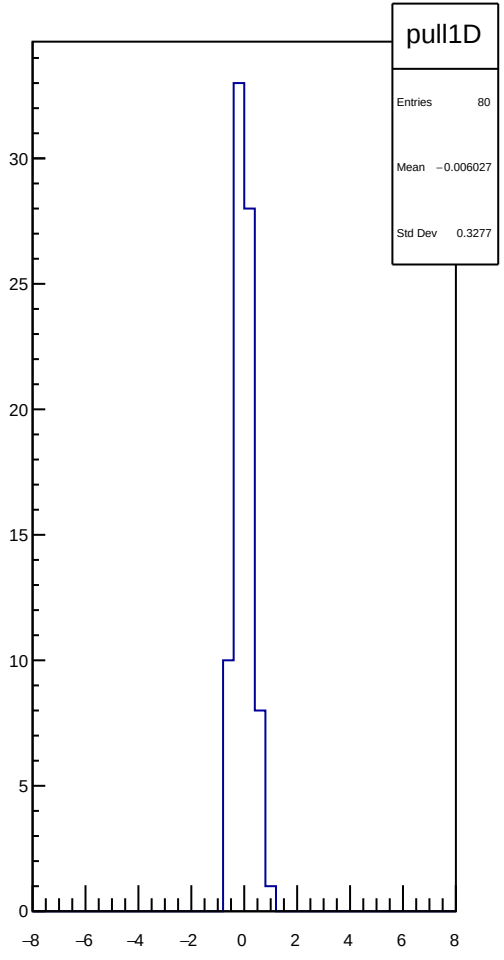

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 6.904 / 79
p0 −305.8 ± 8.504
pull
Entries 80
Mean 530.7
Std Dev 493.8
pull1D
Entries 80
Mean −0.003149
Std Dev 0.2937

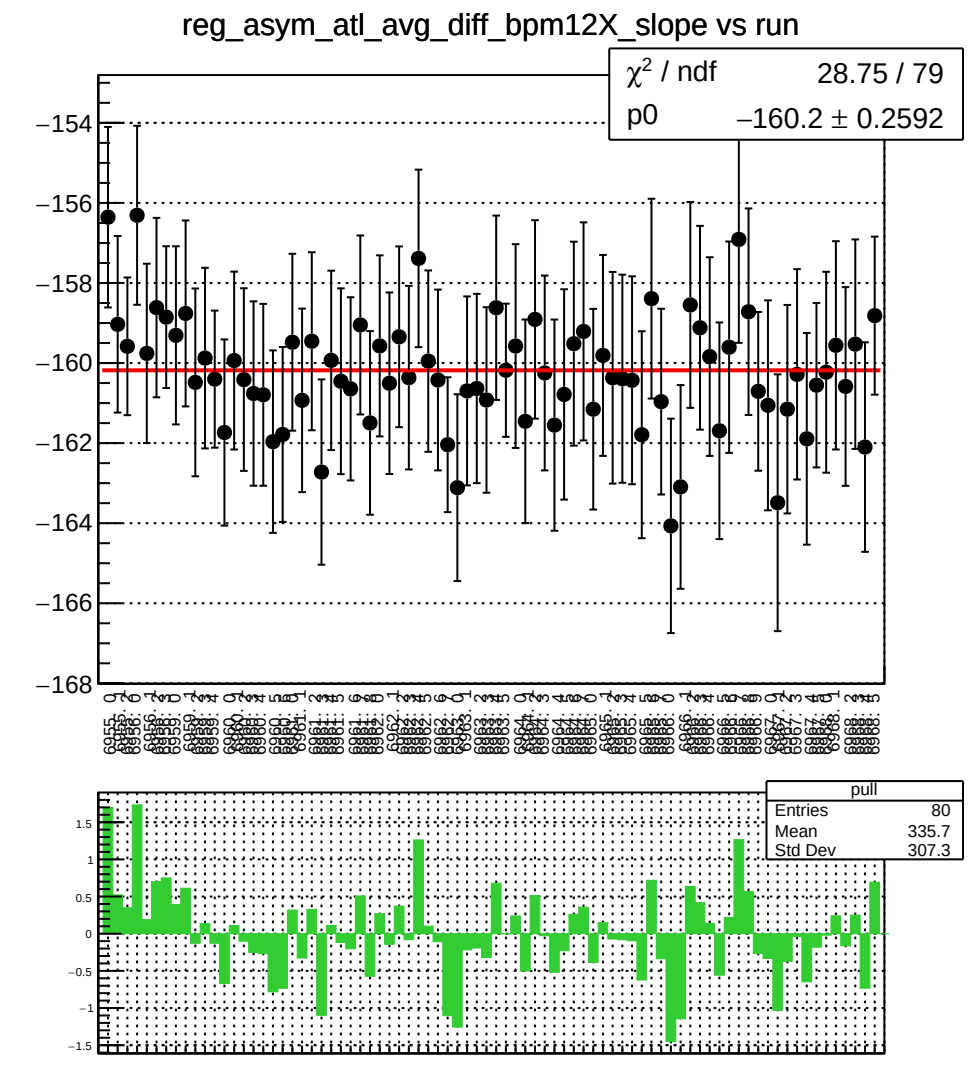

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.425 / 79
p0 13.89 ± 5.816
pull
Entries 80
Mean 1.839
Std Dev 13.68

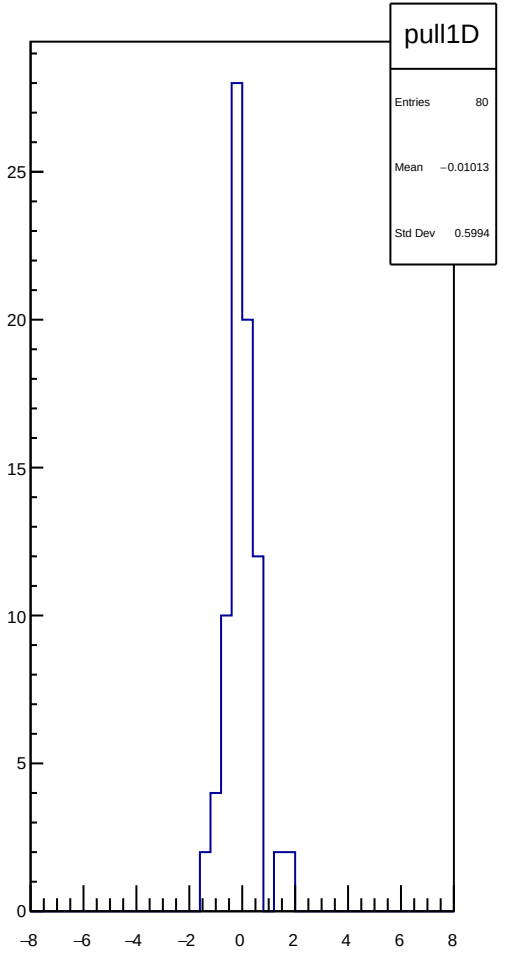

pull1D
Entries 80
Mean 0.007586
Std Dev 0.3244

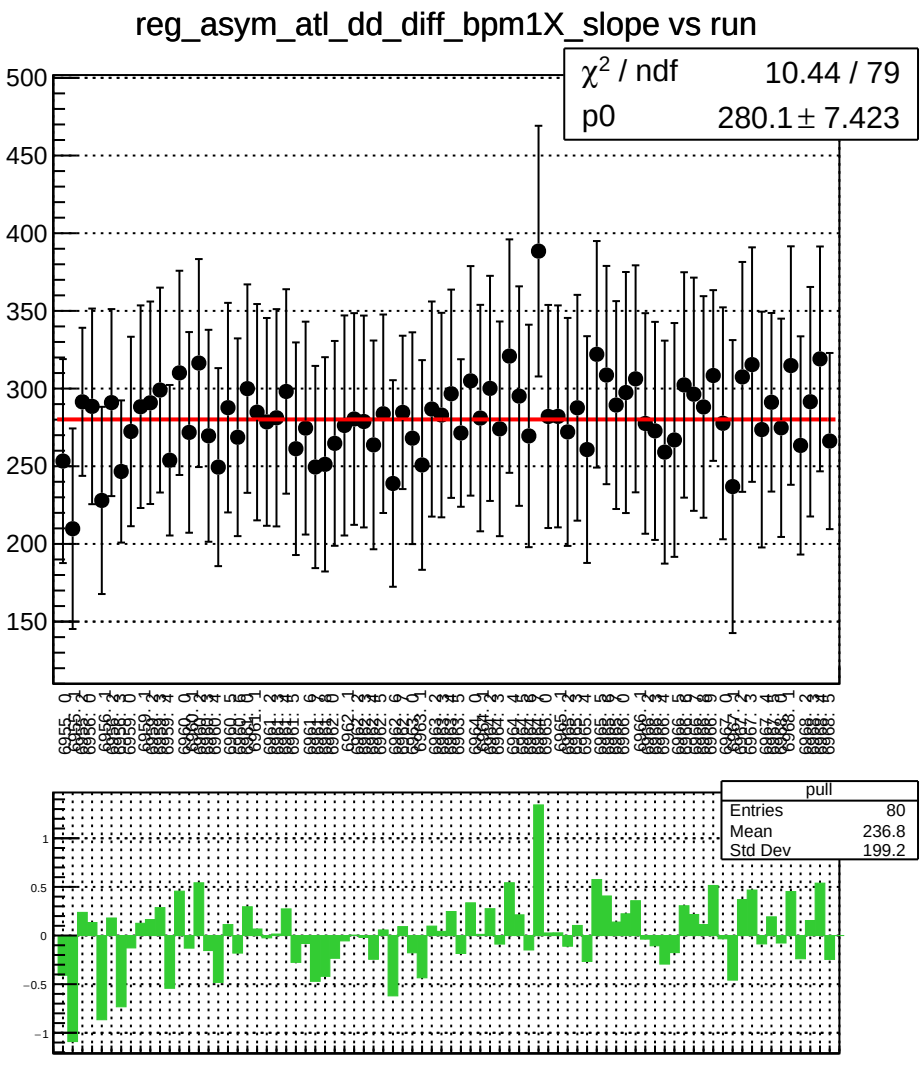

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.757 / 79
p0 272.7 ± 7.877
pull
Entries 80
Mean 482.6
Std Dev 445.3
pull1D
Entries 80
Mean 0.003952
Std Dev 0.2906

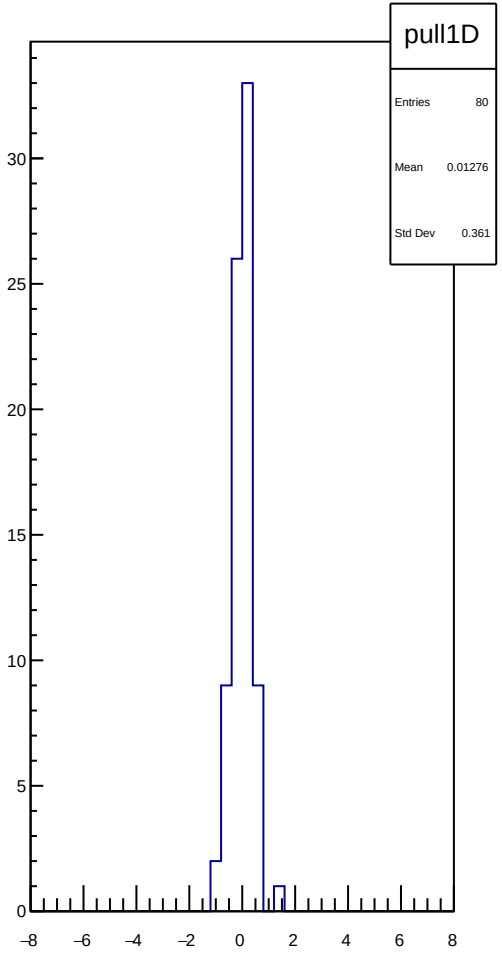

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.593 / 79
p0 58.05 ± 6.616
pull
Entries 80
Mean 8.775
Std Dev 31.03

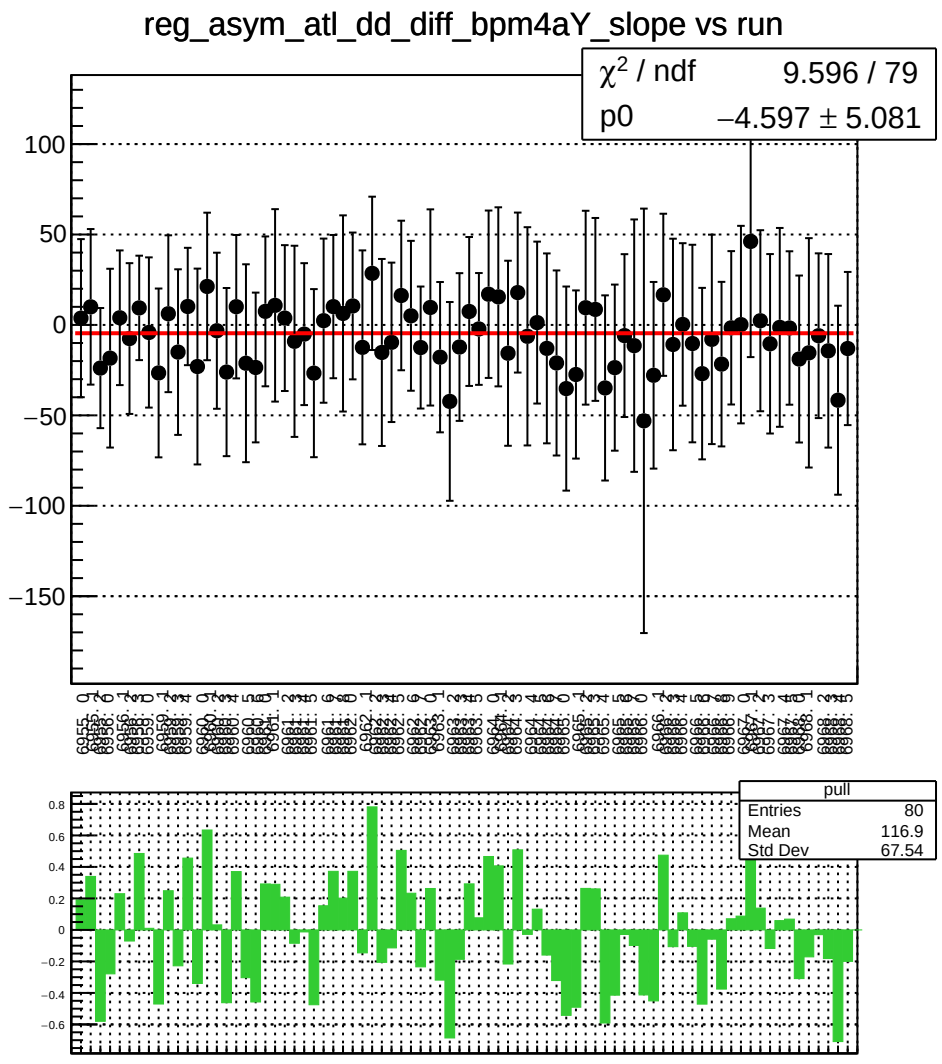

pull1D
Entries 80
Mean −0.006027
Std Dev 0.3277

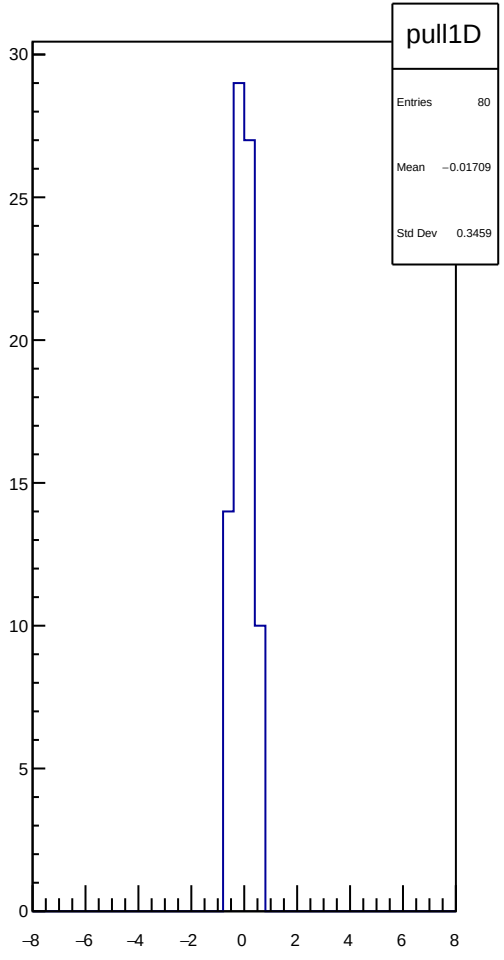

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 28.75 / 79
p0 −160.2 ± 0.2592
pull
Entries 80
Mean 335.7
Std Dev 307.3

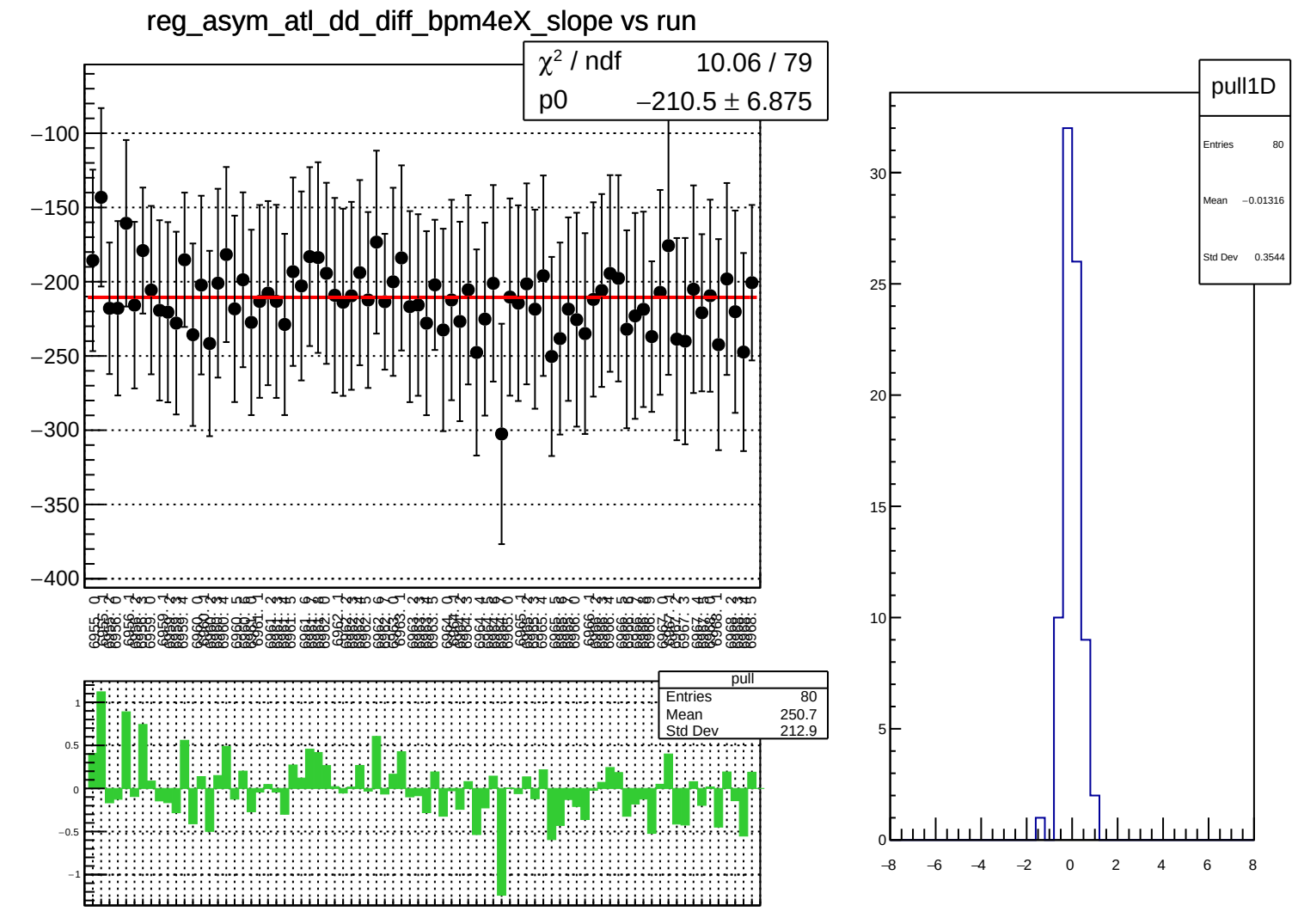

pull1D
Entries 80
Mean −0.01013
Std Dev 0.5994

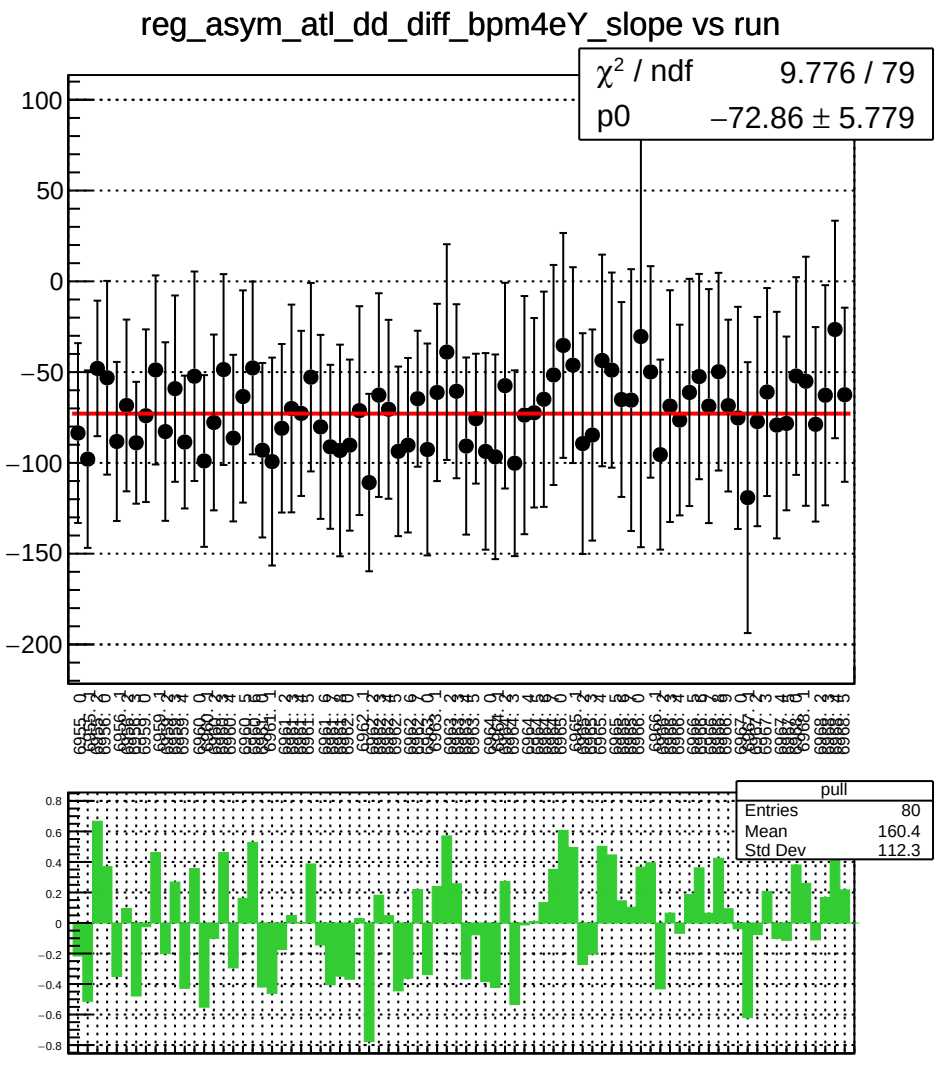

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 10.44 / 79
p0 280.1 ± 7.423
pull
Entries 80
Mean 236.8
Std Dev 199.2

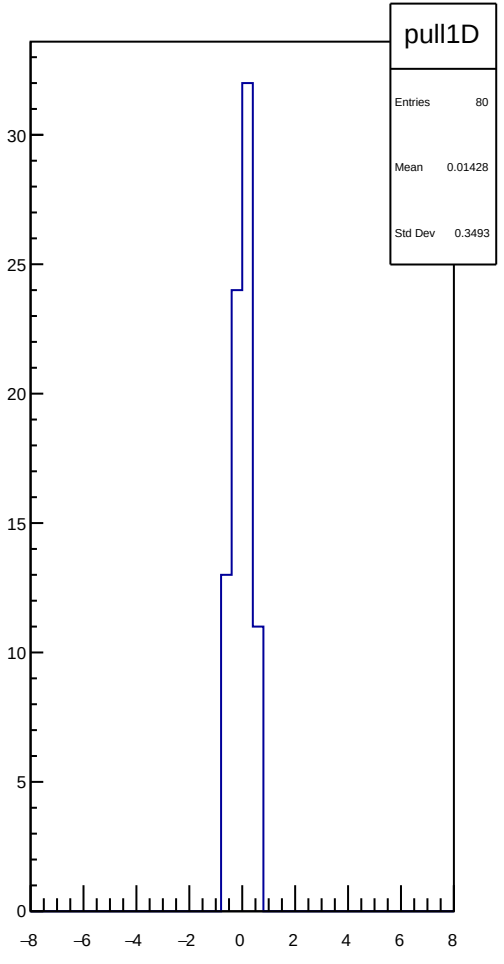

pull1D
Entries 80
Mean 0.01276
Std Dev 0.361

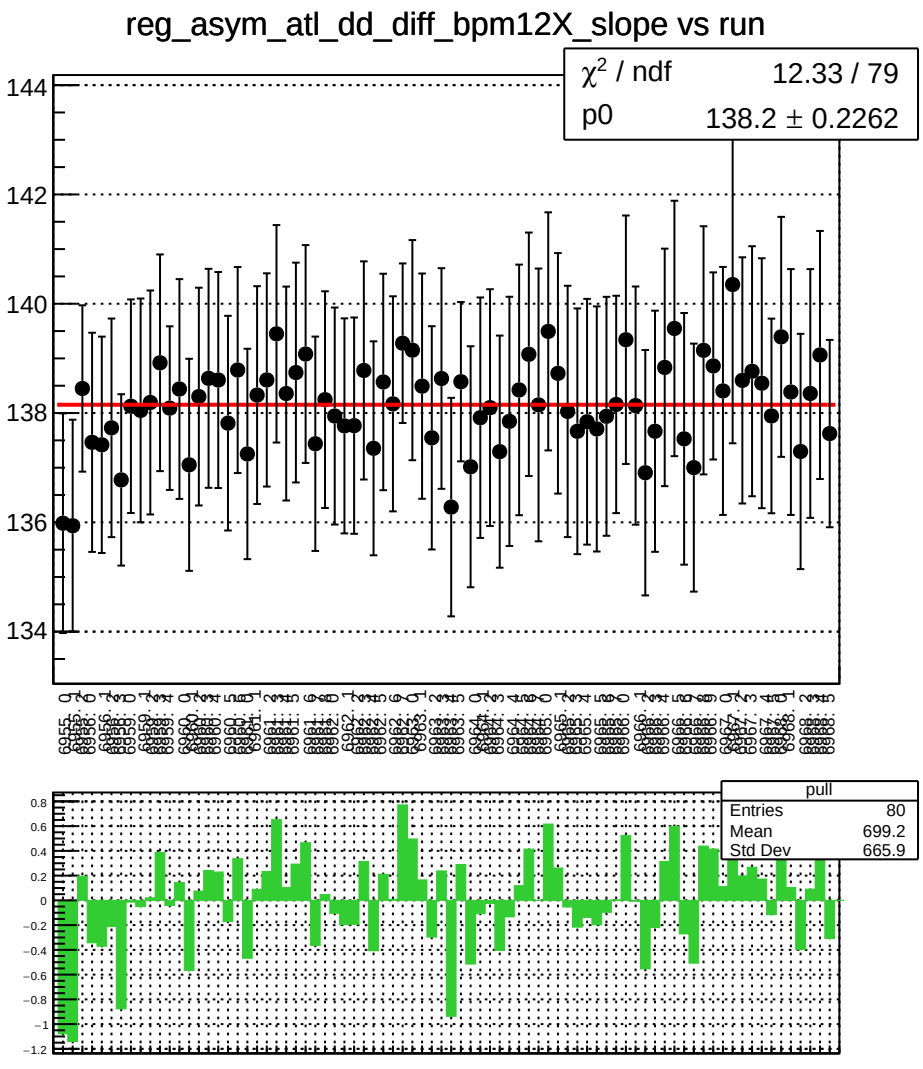

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.596 / 79
p0 −4.597 ± 5.081
100
50
0
−50
−100
−150
pull
Entries 80
Mean 116.9
Std Dev 67.54
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

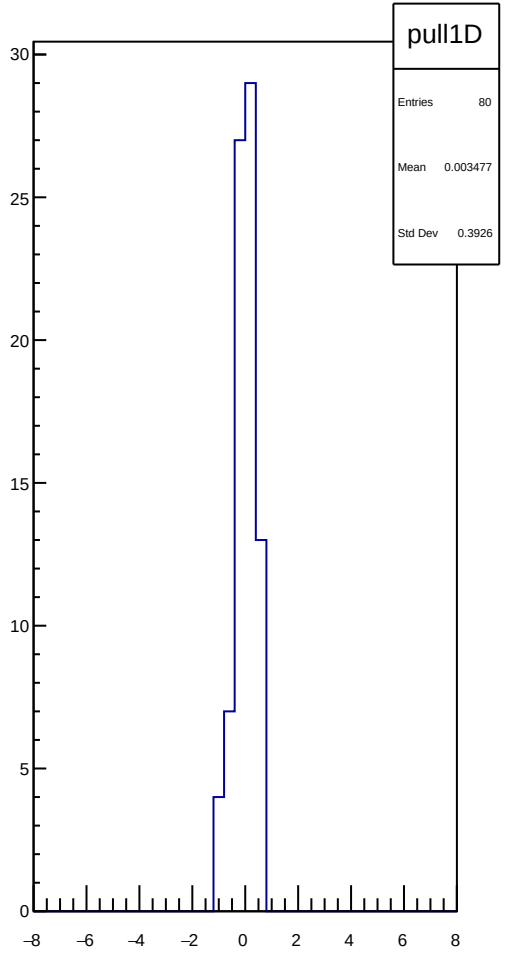

pull1D
Entries 80
Mean −0.01709
Std Dev 0.3459
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

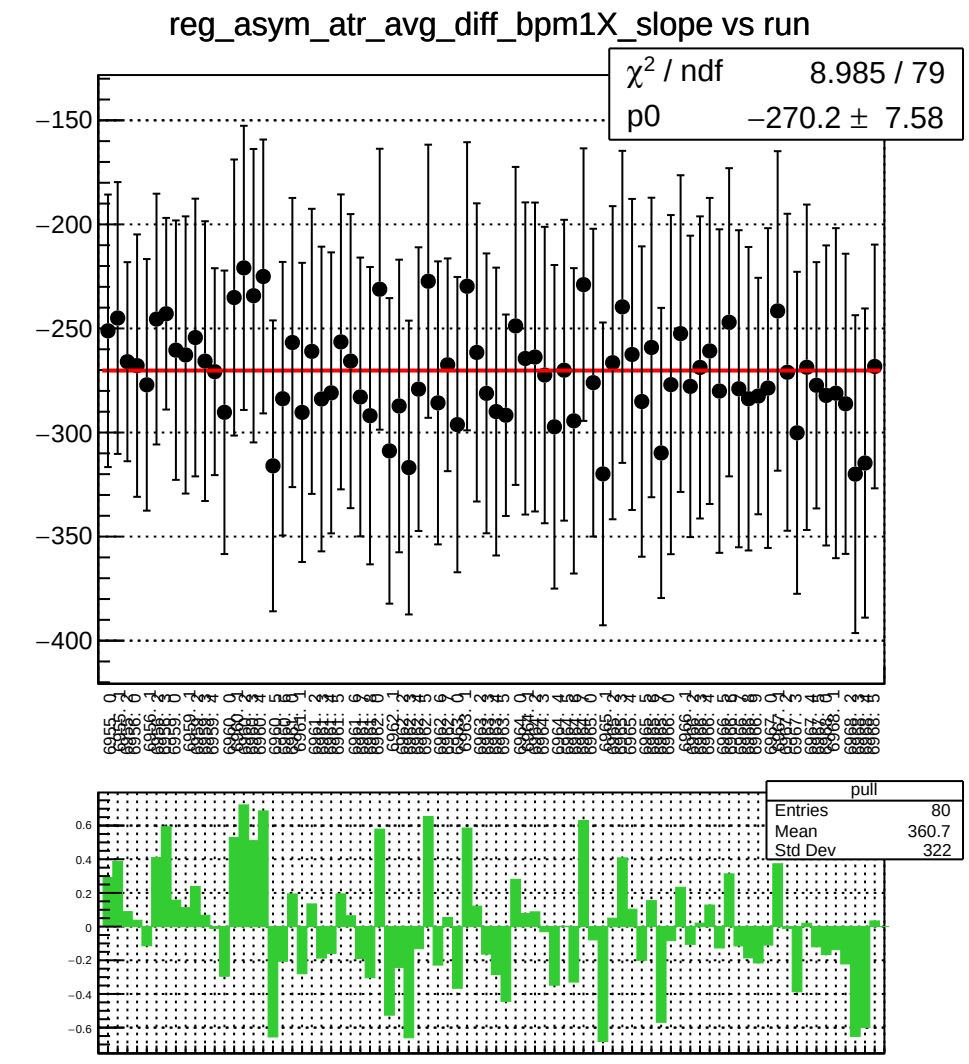

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.06 / 79
p0 −210.5 ± 6.875
pull
Entries 80
Mean 250.7
Std Dev 212.9
pull1D
Entries 80
Mean −0.01316
Std Dev 0.3544

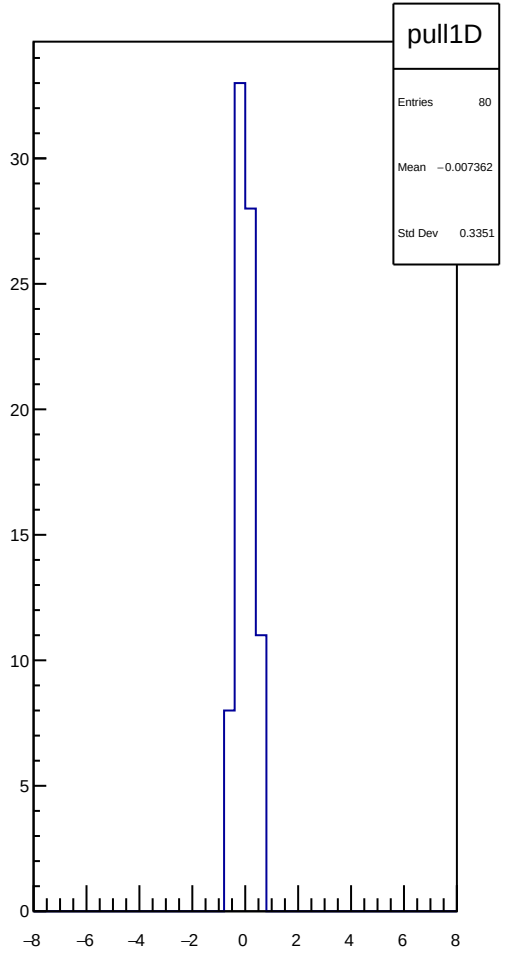

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.776 / 79
p0 −72.86 ± 5.779
pull
Entries 80
Mean 160.4
Std Dev 112.3

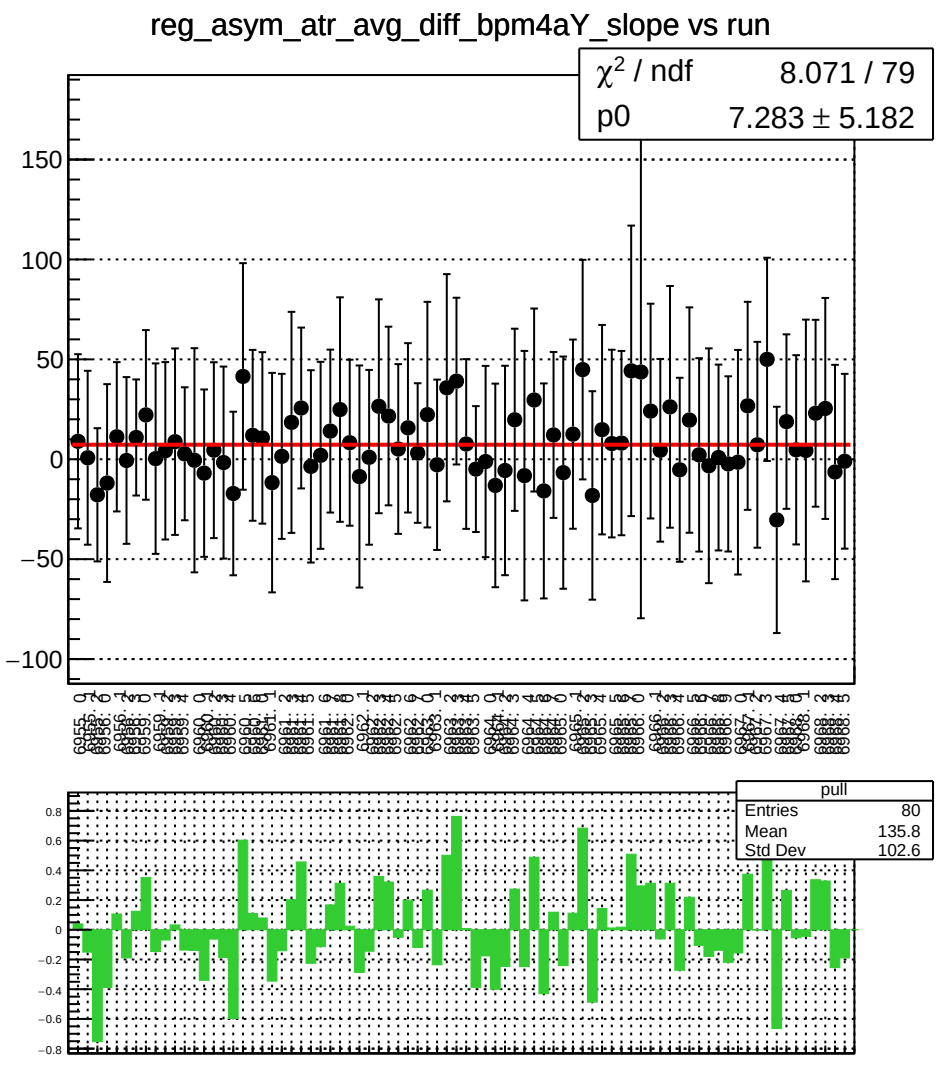

pull1D
Entries 80
Mean 0.01428
Std Dev 0.3493

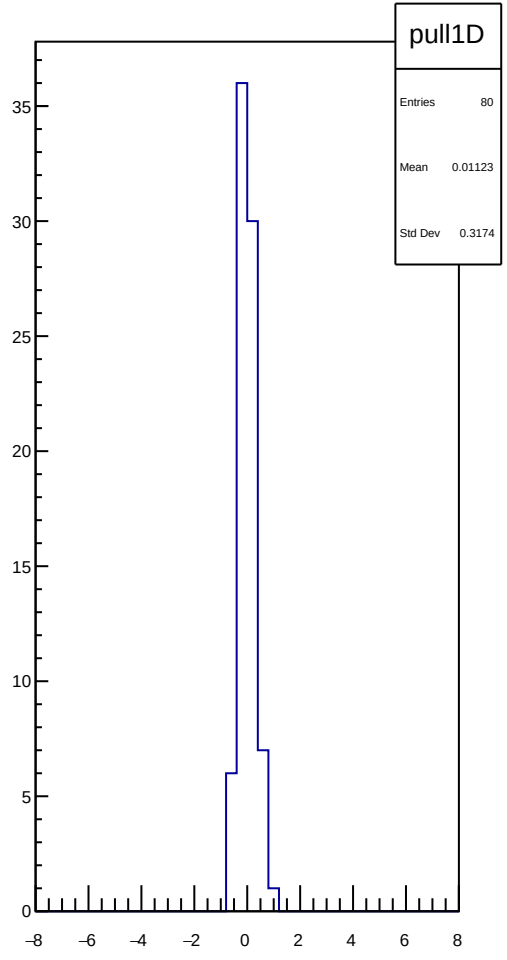

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 12.33 / 79
p0 138.2 ± 0.2262
144
142
140
138
136
134
pull
Entries 80
Mean 699.2
Std Dev 665.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

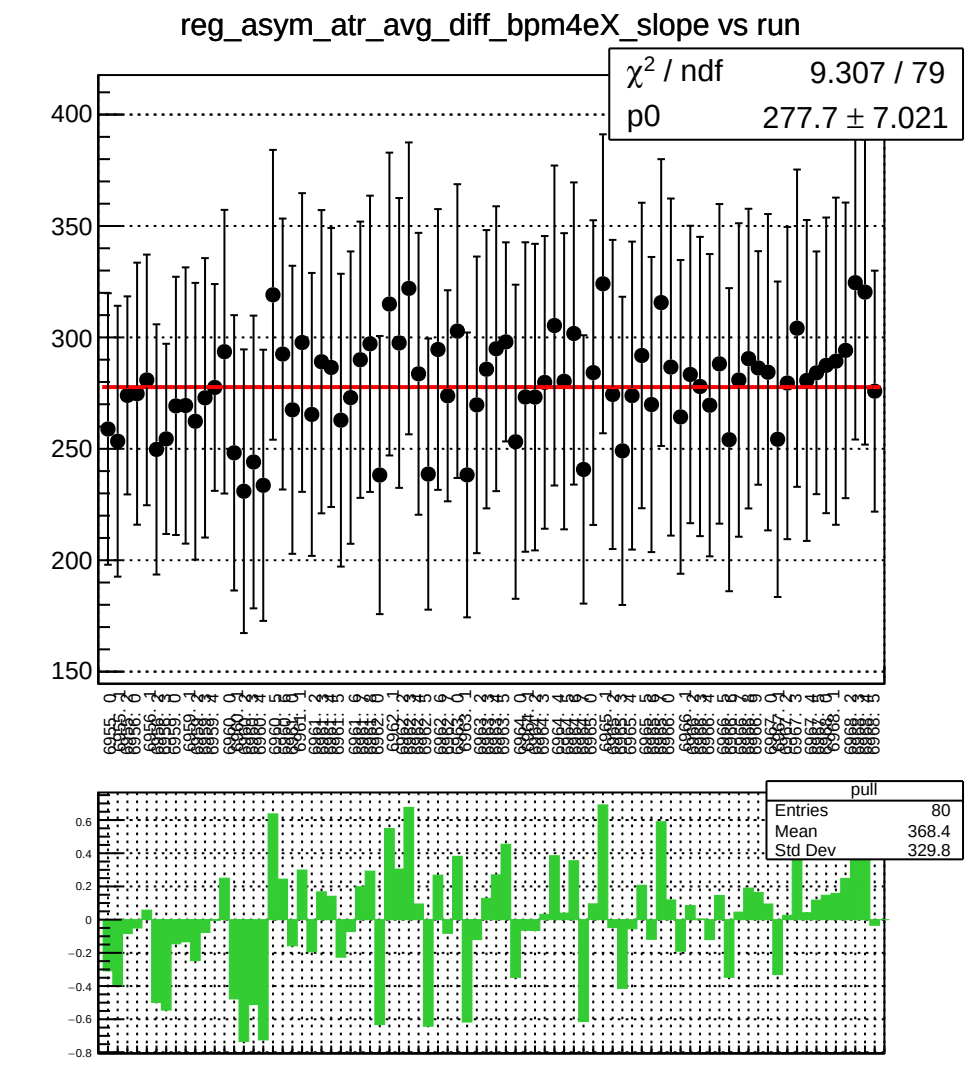

pull1D
Entries 80
Mean 0.003477
Std Dev 0.3926
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

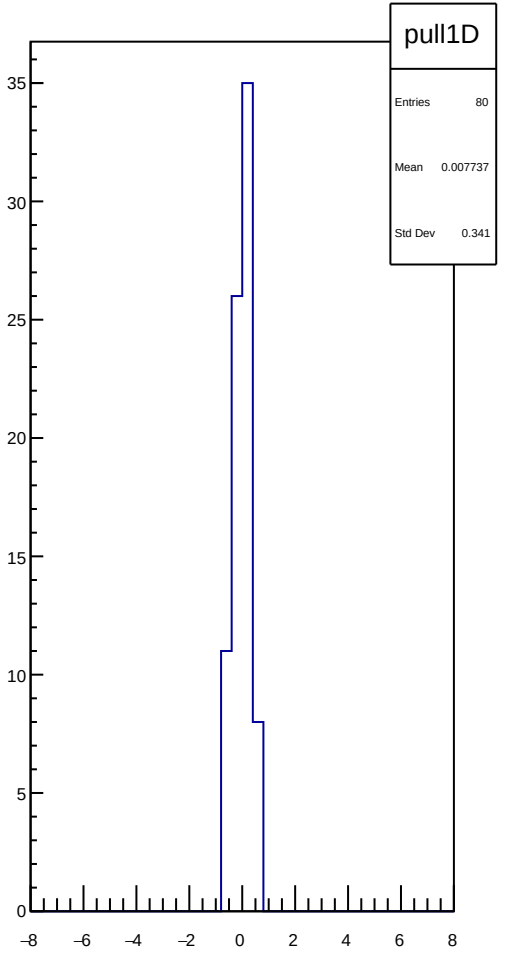

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 8.985 / 79
p0 −270.2 ± 7.58
−150
−200
−250
−300
−350
−400
pull
Entries 80
Mean 360.7
Std Dev 322
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

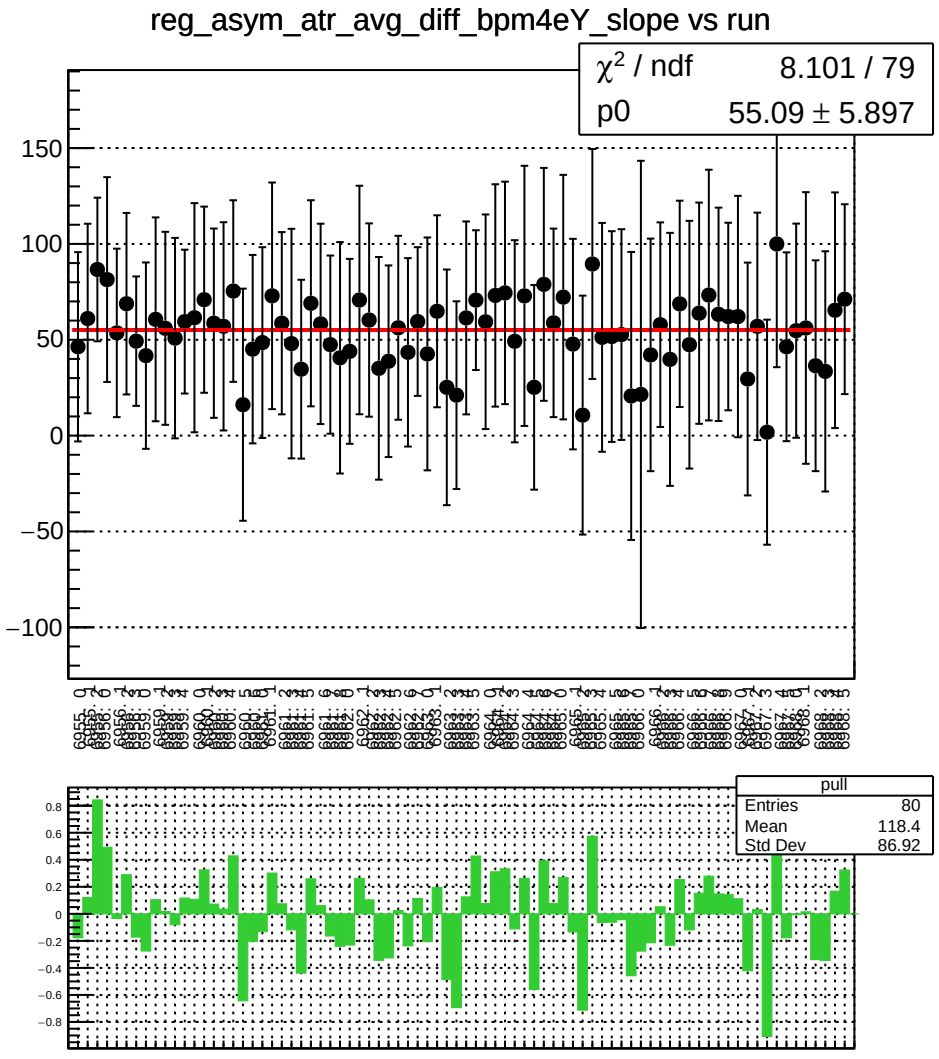

pull1D
Entries 80
Mean −0.007362
Std Dev 0.3351
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

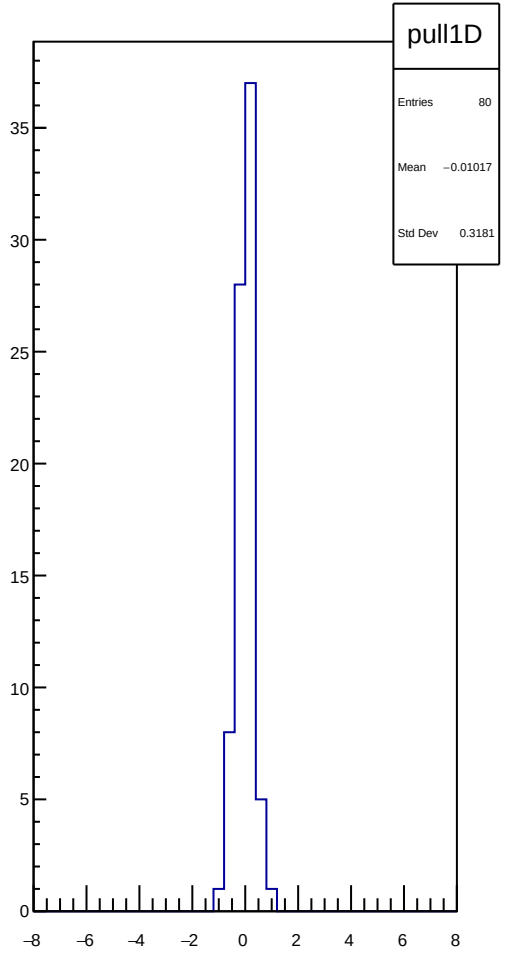

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.071 / 79
p0 7.283 ± 5.182
150
100
50
0
−50
−100
pull
Entries 80
Mean 135.8
Std Dev 102.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

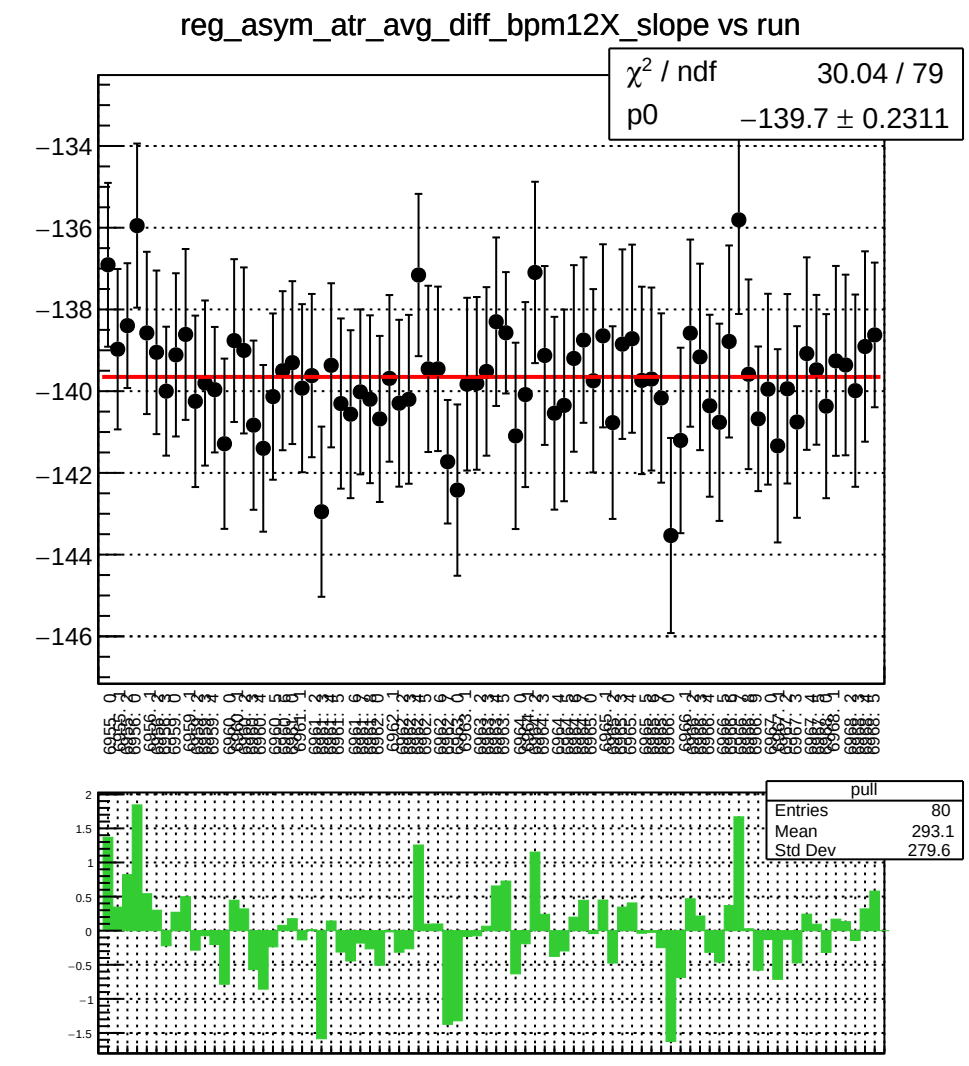

pull1D
Entries 80
Mean 0.01123
Std Dev 0.3174
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

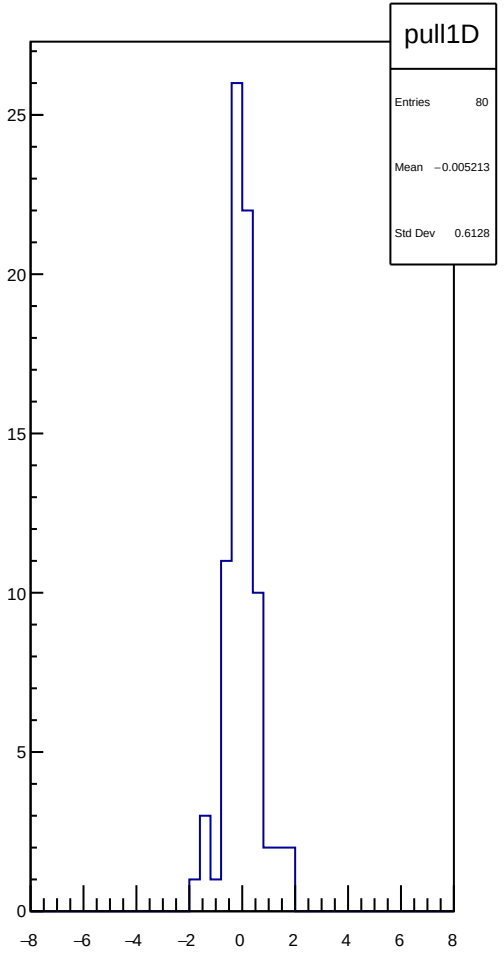

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.307 / 79
p0 277.7 ± 7.021
400
350
300
250
200
150
pull
Entries 80
Mean 368.4
Std Dev 329.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

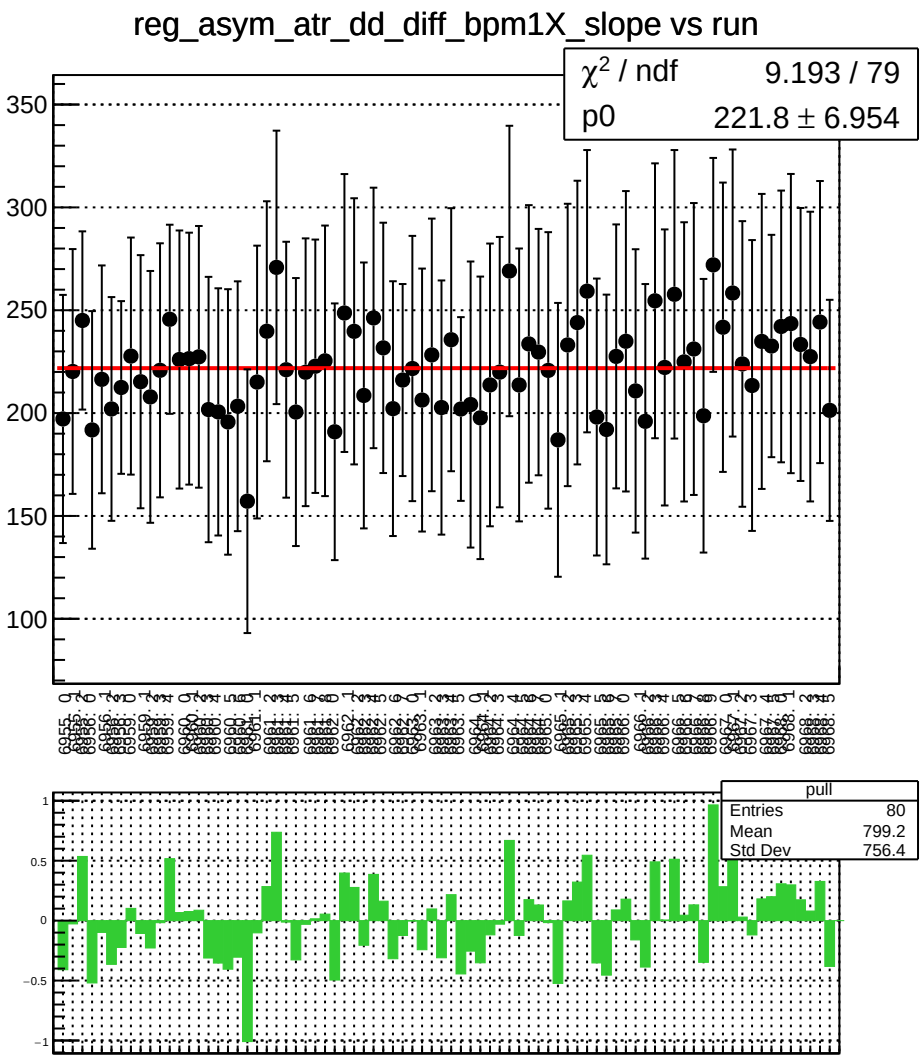

pull1D
Entries 80
Mean 0.007737
Std Dev 0.341
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

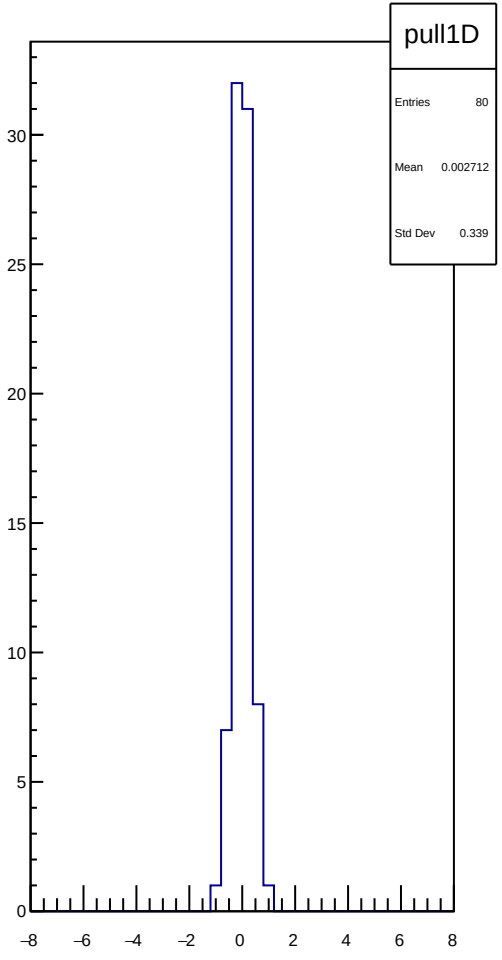

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.101 / 79
p0 55.09 ± 5.897
150
100
50
0
−50
−100
pull
Entries 80
Mean 118.4
Std Dev 86.92
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

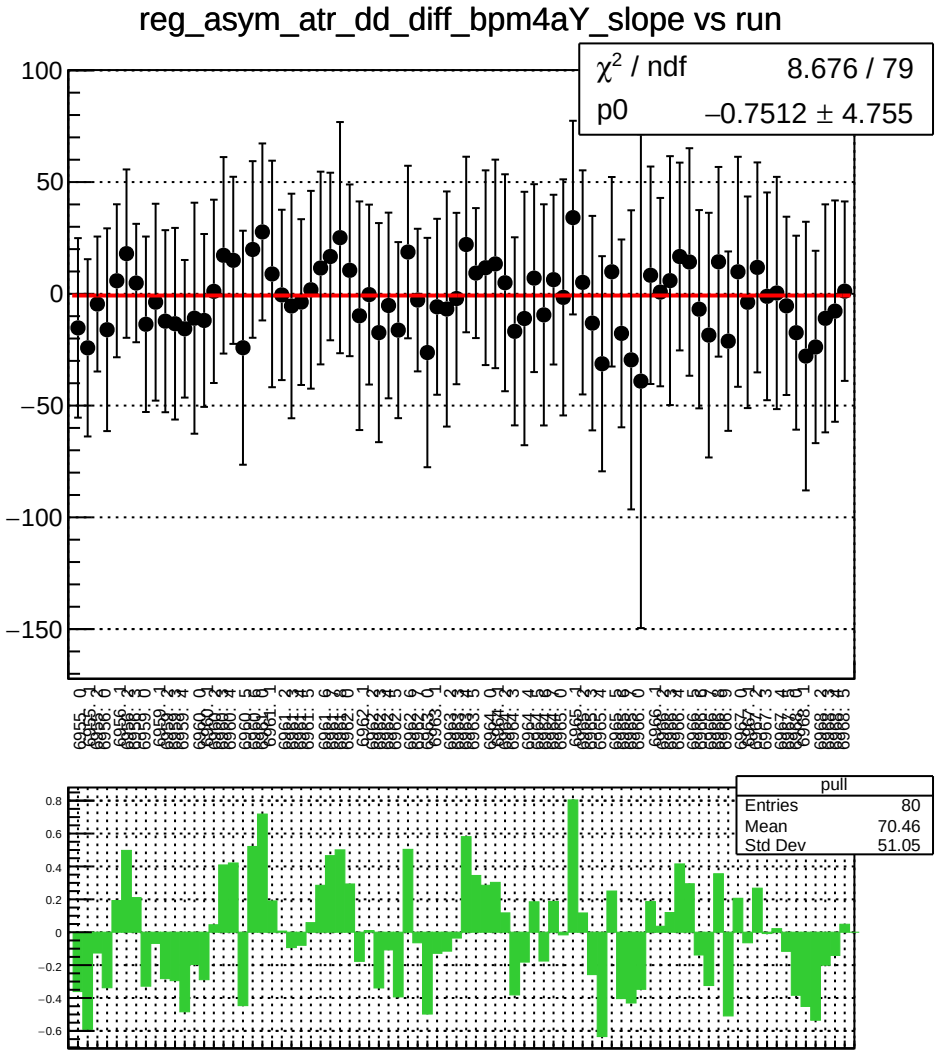

pull1D
Entries 80
Mean −0.01017
Std Dev 0.3181
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

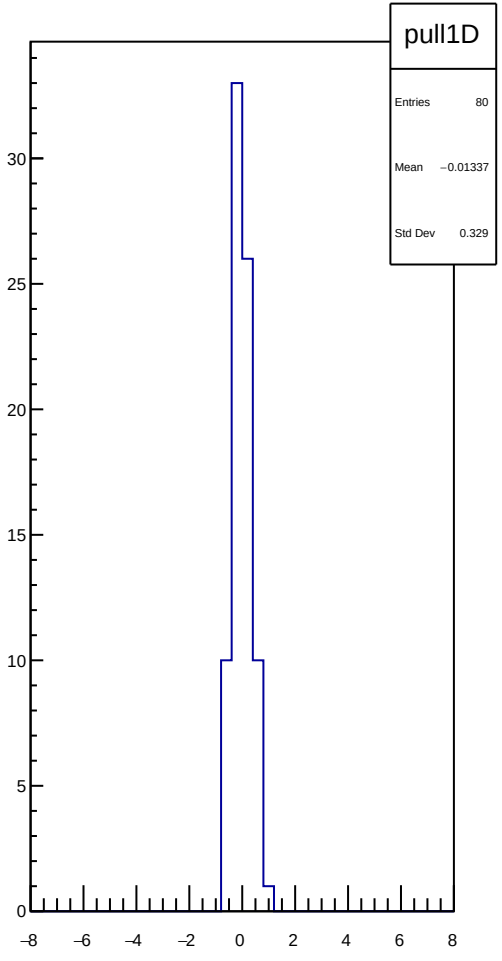

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 30.04 / 79
p0 −139.7 ± 0.2311
pull
Entries 80
Mean 293.1
Std Dev 279.6

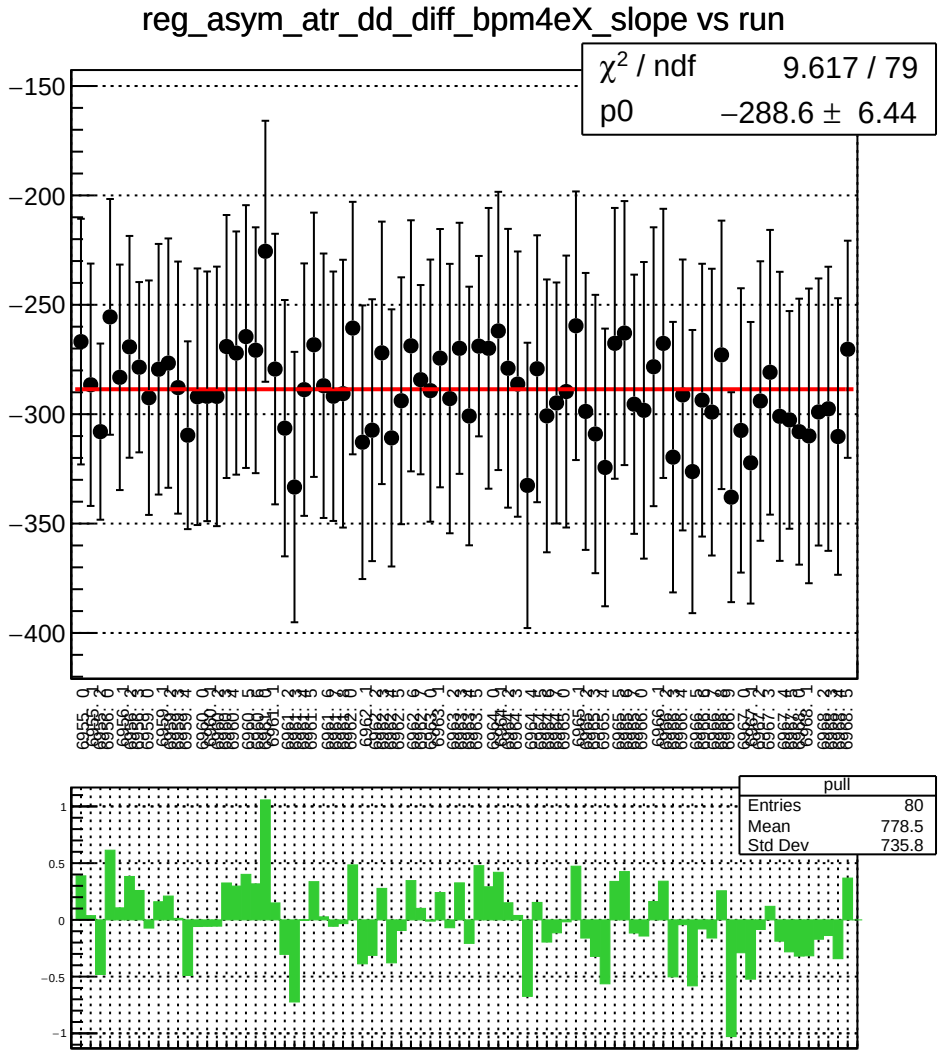

pull1D
Entries 80
Mean −0.005213
Std Dev 0.6128

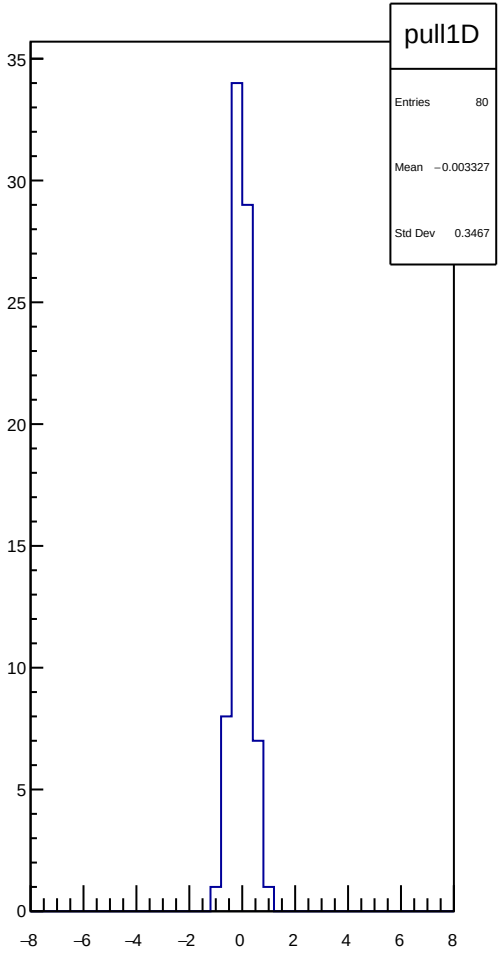

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 9.193 / 79
p0 221.8 ± 6.954
pull
Entries 80
Mean 799.2
Std Dev 756.4

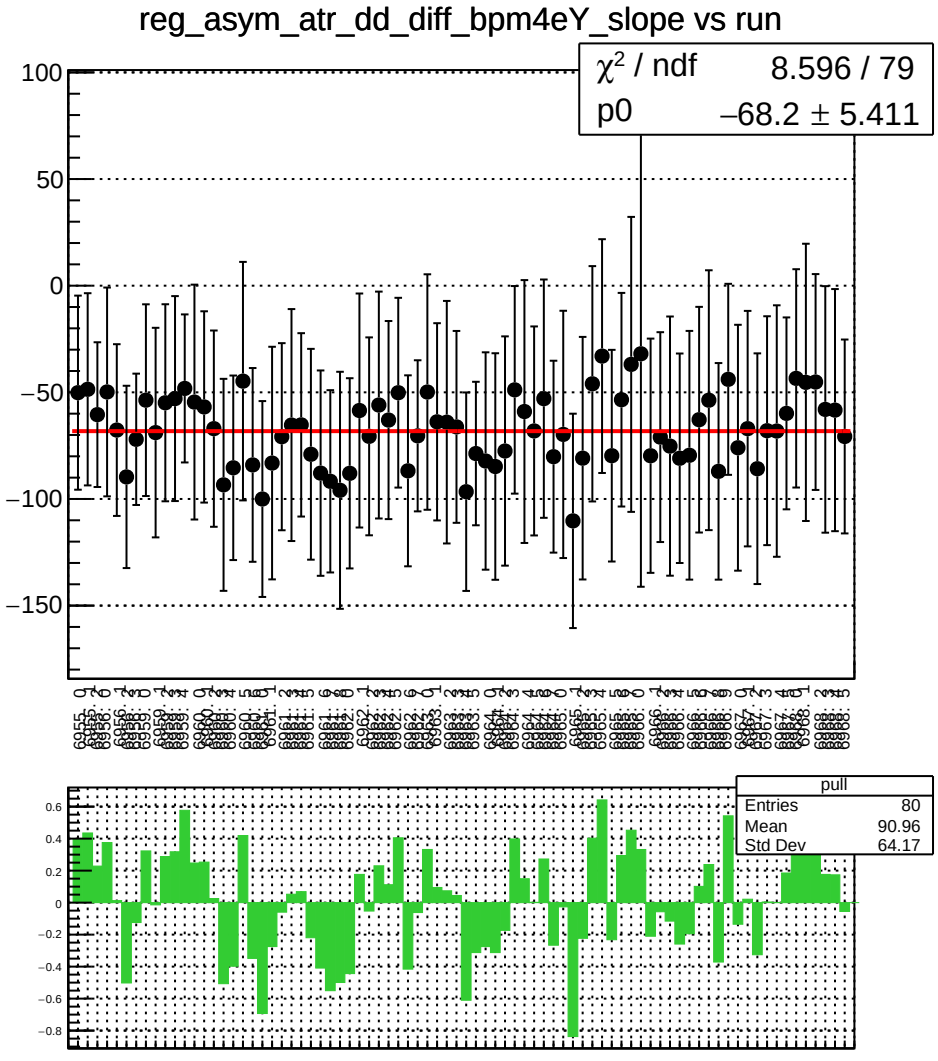

pull1D
Entries 80
Mean 0.002712
Std Dev 0.339

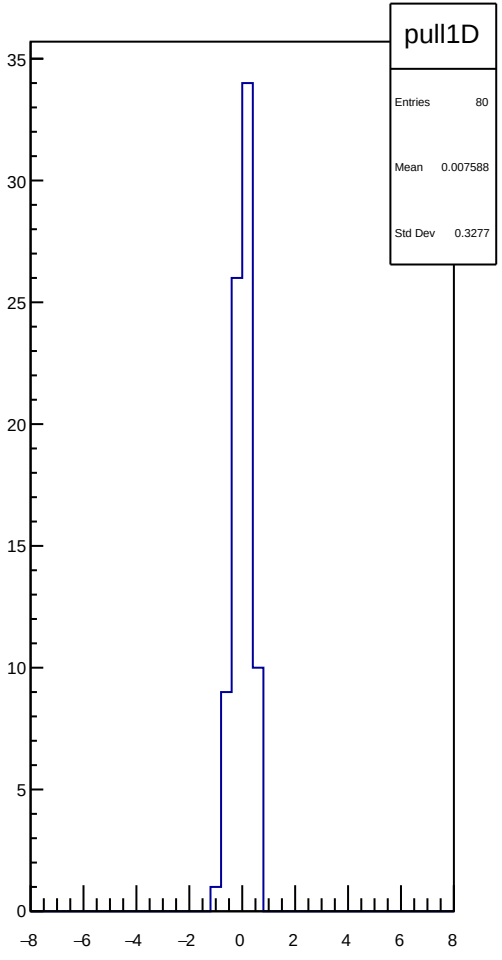

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.676 / 79
p0 −0.7512 ± 4.755
pull
Entries 80
Mean 70.46
Std Dev 51.05

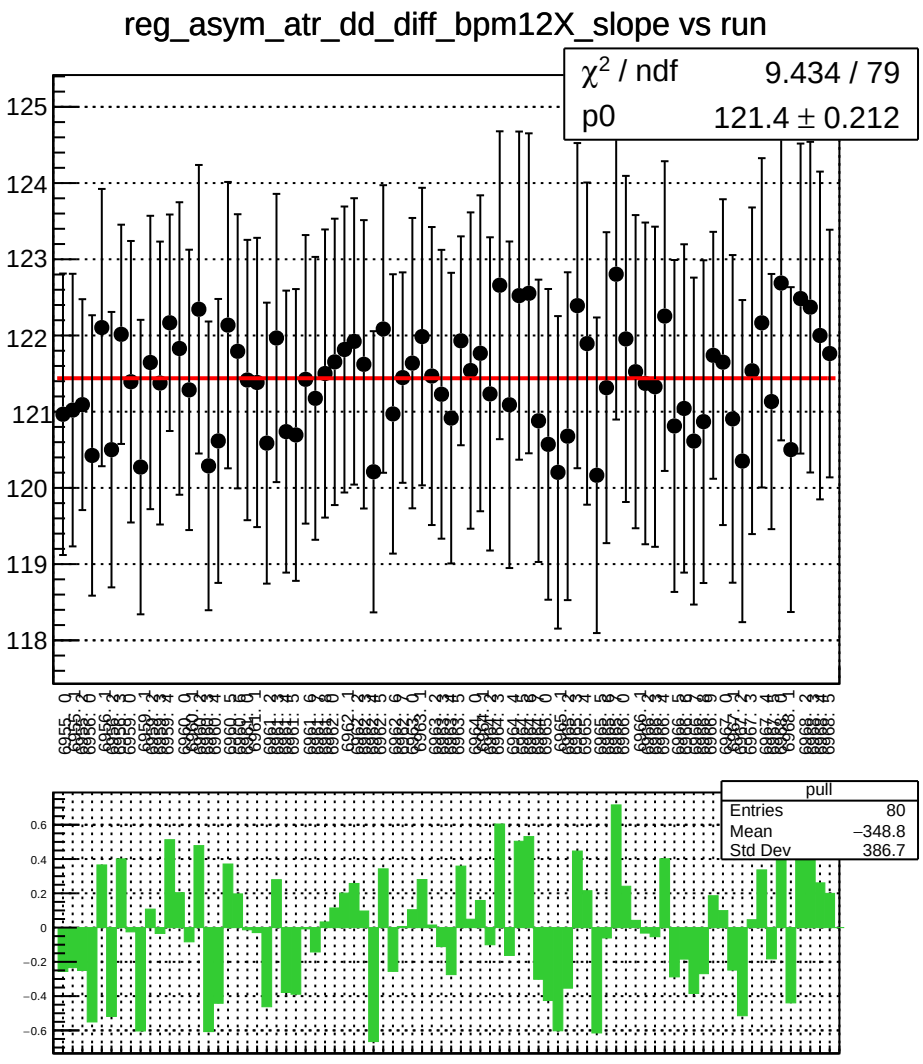

pull1D
Entries 80
Mean −0.01337
Std Dev 0.329

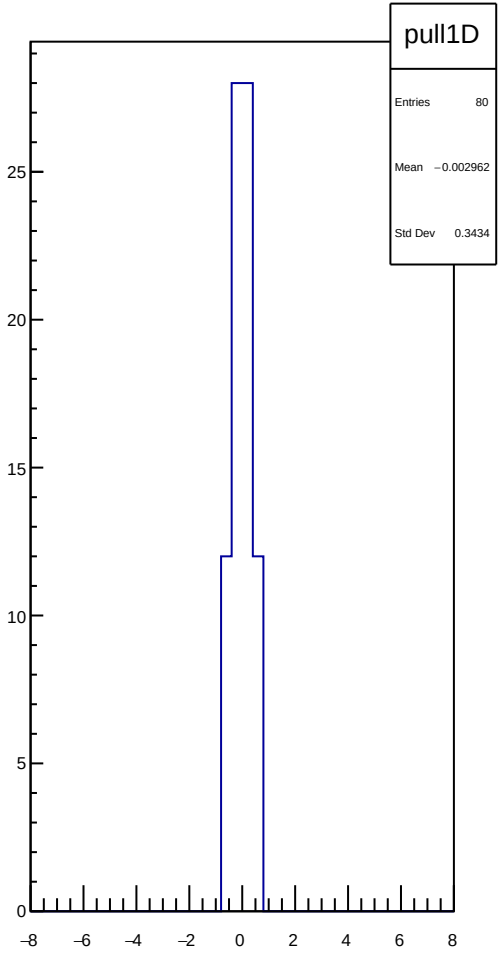

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.617 / 79
p0 −288.6 ± 6.44
pull
Entries 80
Mean 778.5
Std Dev 735.8

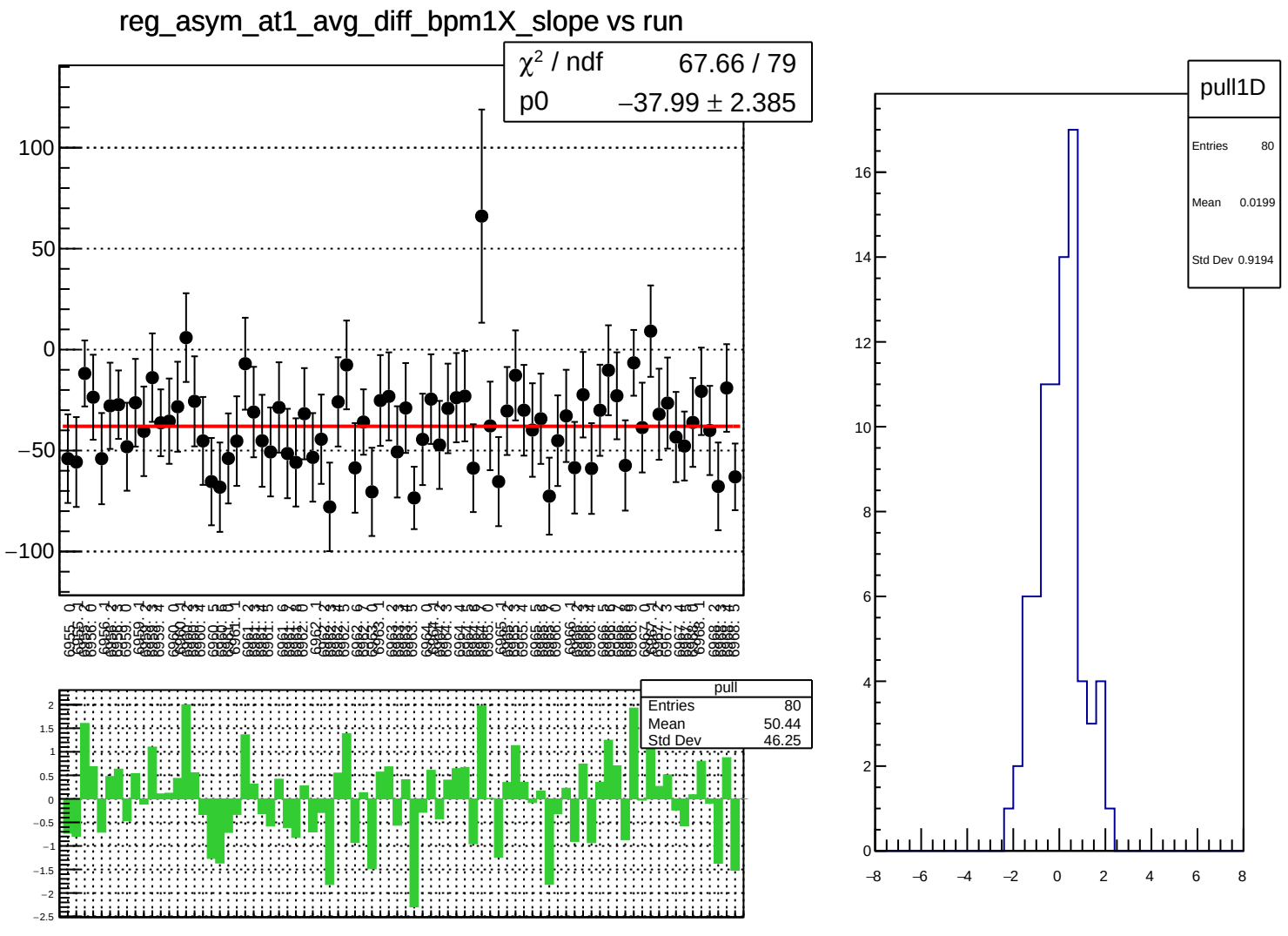

pull1D
Entries 80
Mean −0.003327
Std Dev 0.3467

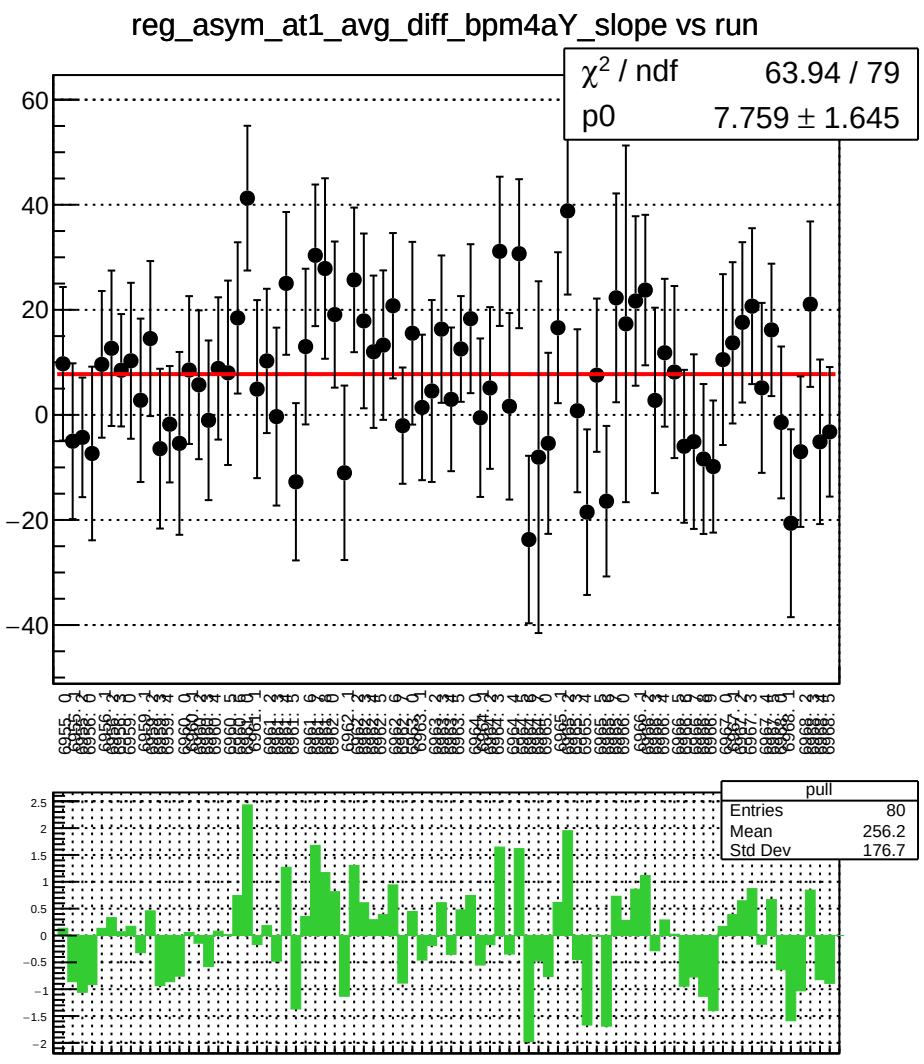

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.596 / 79
p0 −68.2 ± 5.411
pull
Entries 80
Mean 90.96
Std Dev 64.17

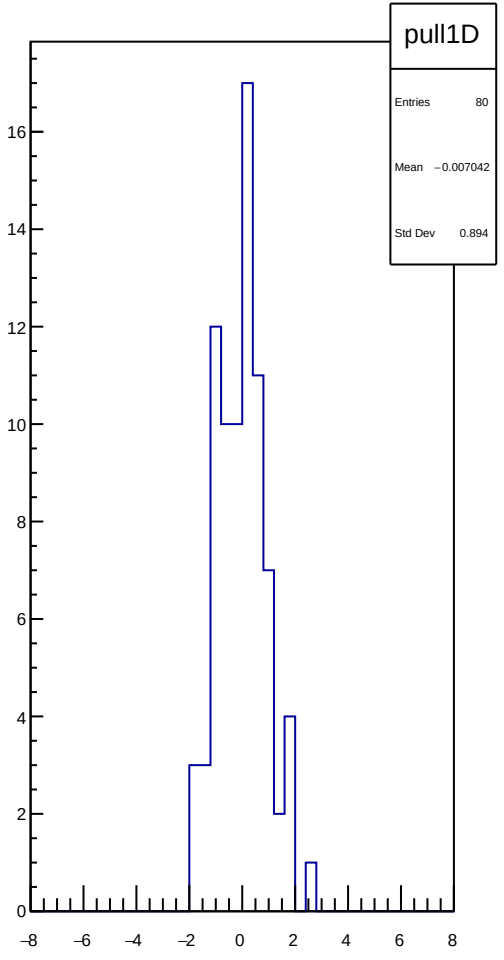

pull1D
Entries 80
Mean 0.007588
Std Dev 0.3277

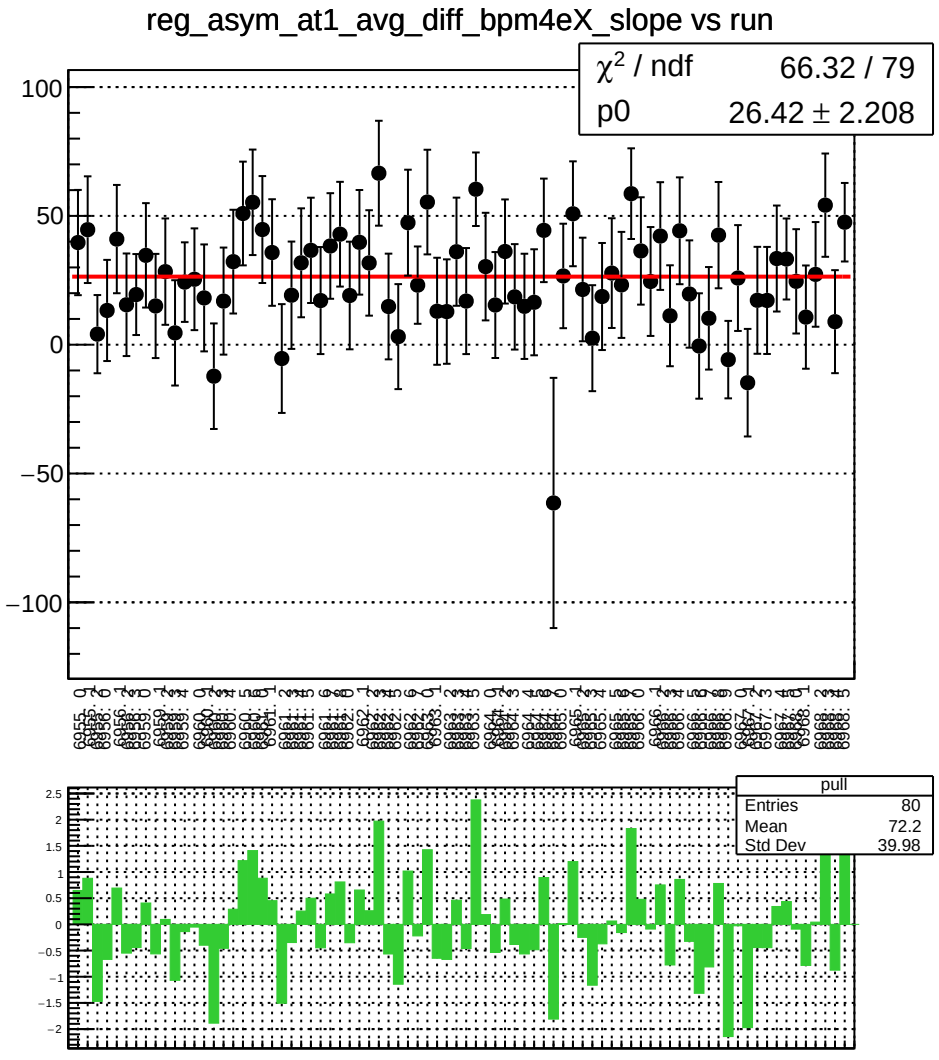

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 9.434 / 79
p0 121.4 ± 0.212
125
124
123
122
121
120
119
118
pull
Entries 80
Mean −348.8
Std Dev 386.7
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

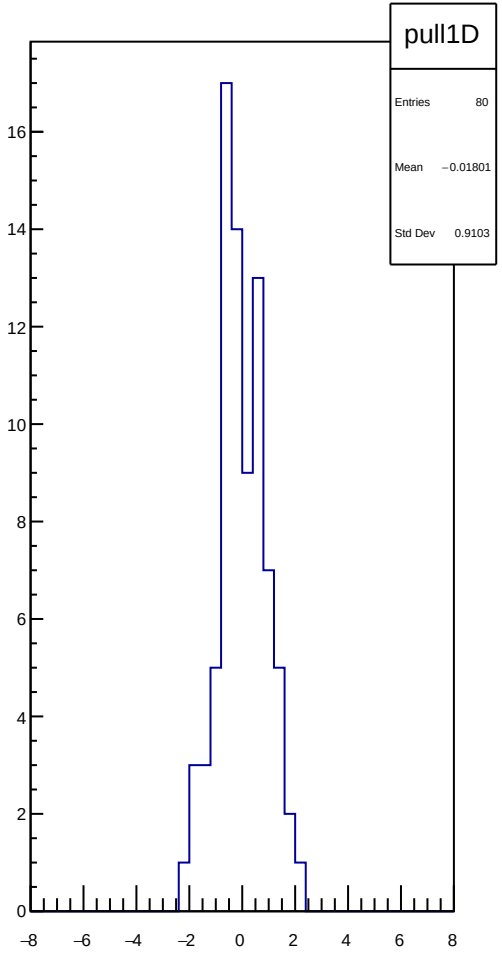

pull1D
Entries 80
Mean −0.002962
Std Dev 0.3434
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

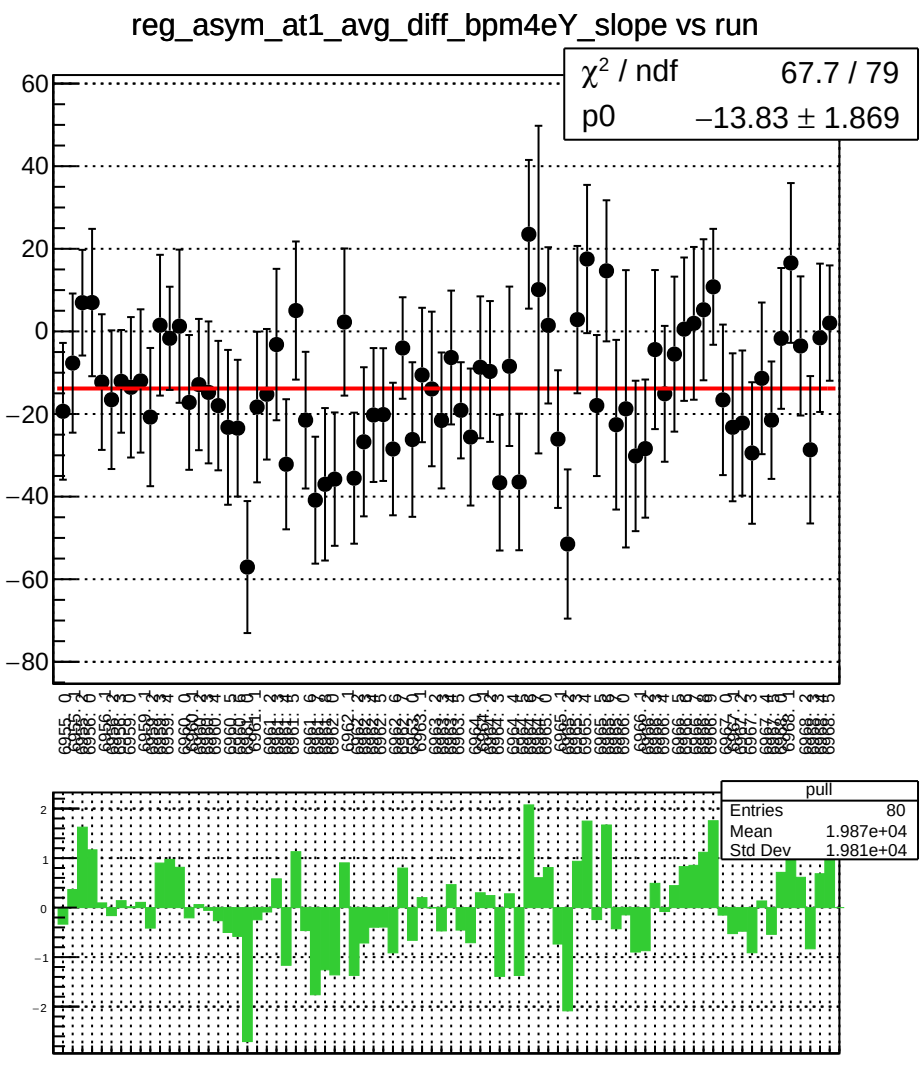

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 67.66 / 79
p0 −37.99 ± 2.385
pull
Entries 80
Mean 50.44
Std Dev 46.25
pull1D
Entries 80
Mean 0.0199
Std Dev 0.9194

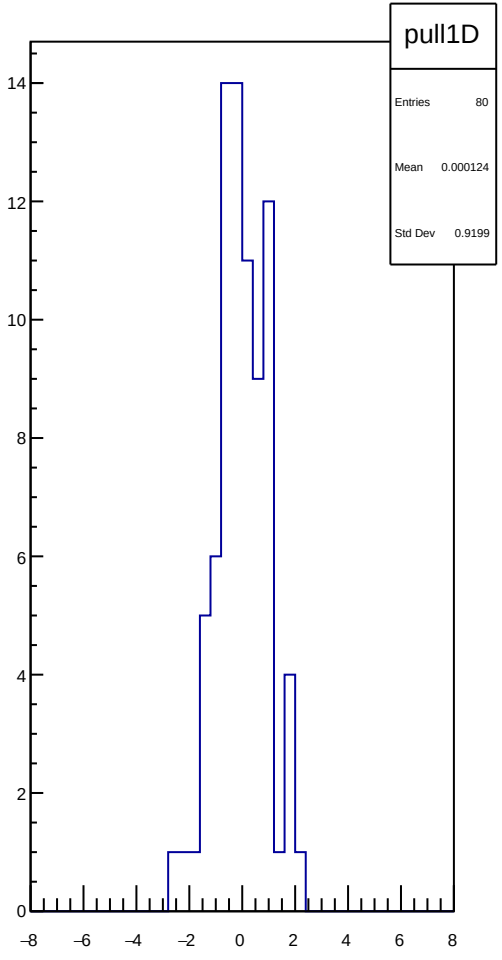

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 63.94 / 79
p0 7.759 ± 1.645
pull
Entries 80
Mean 256.2
Std Dev 176.7

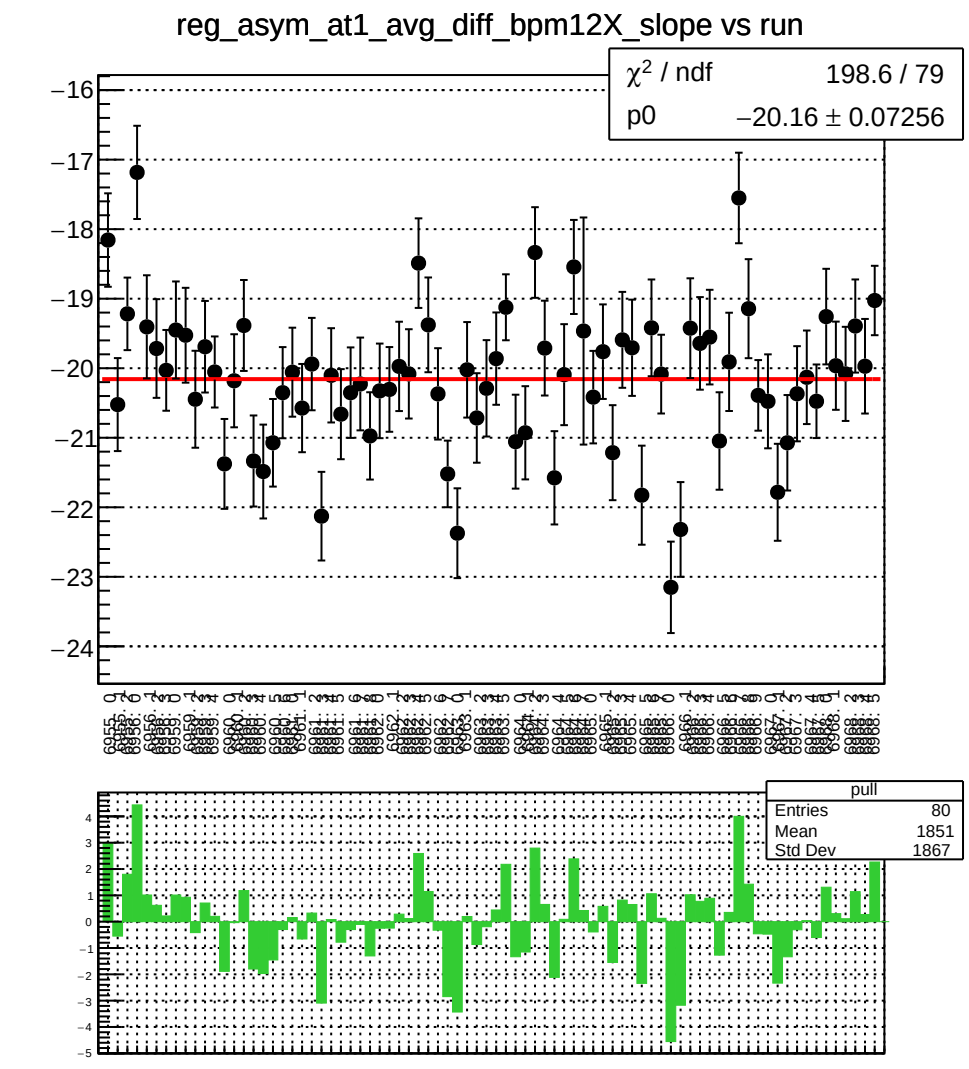

pull1D
Entries 80
Mean −0.007042
Std Dev 0.894

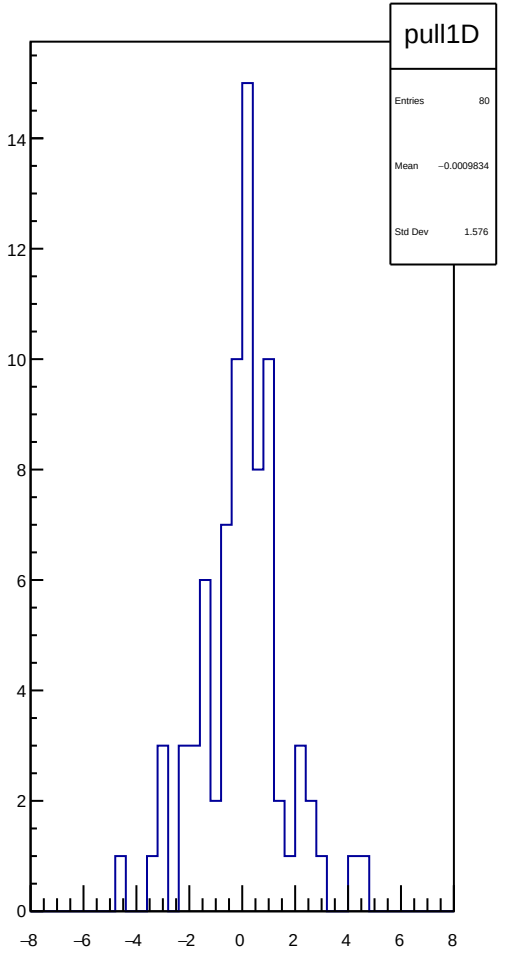

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 66.32 / 79
p0 26.42 ± 2.208
pull
Entries 80
Mean 72.2
Std Dev 39.98

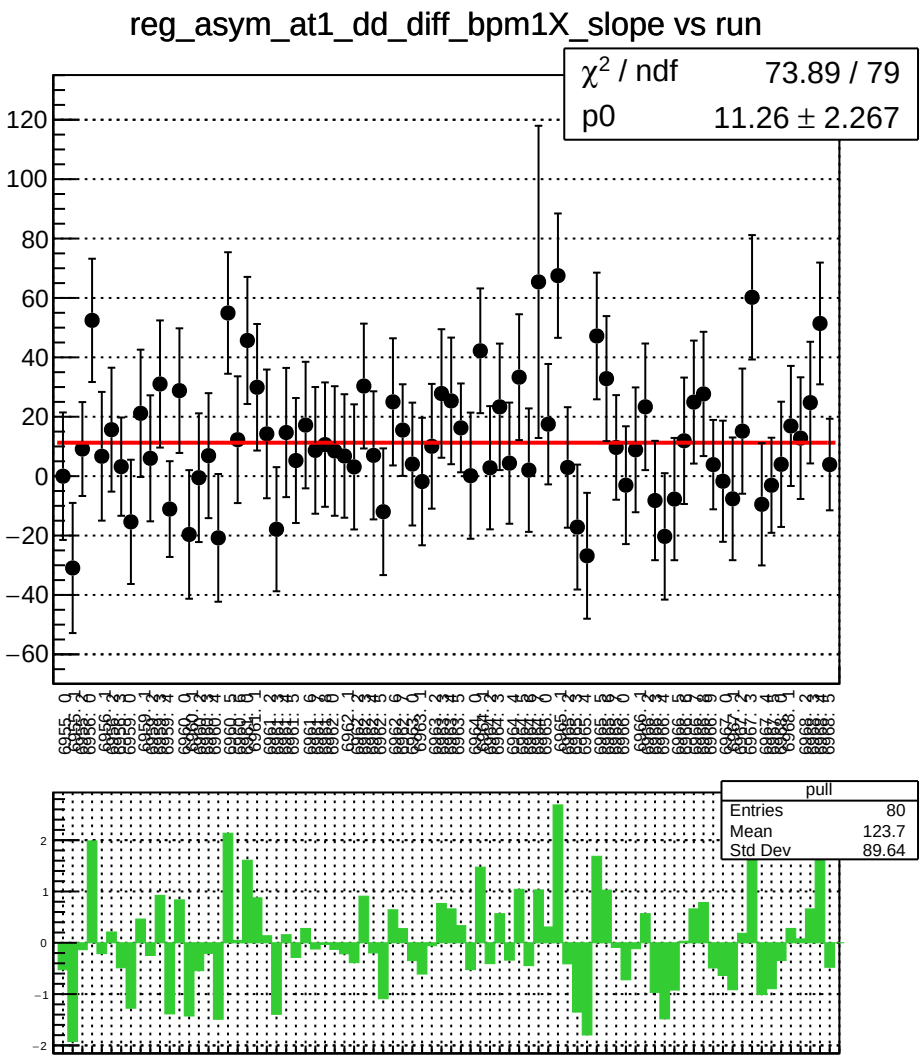

pull1D
Entries 80
Mean −0.01801
Std Dev 0.9103

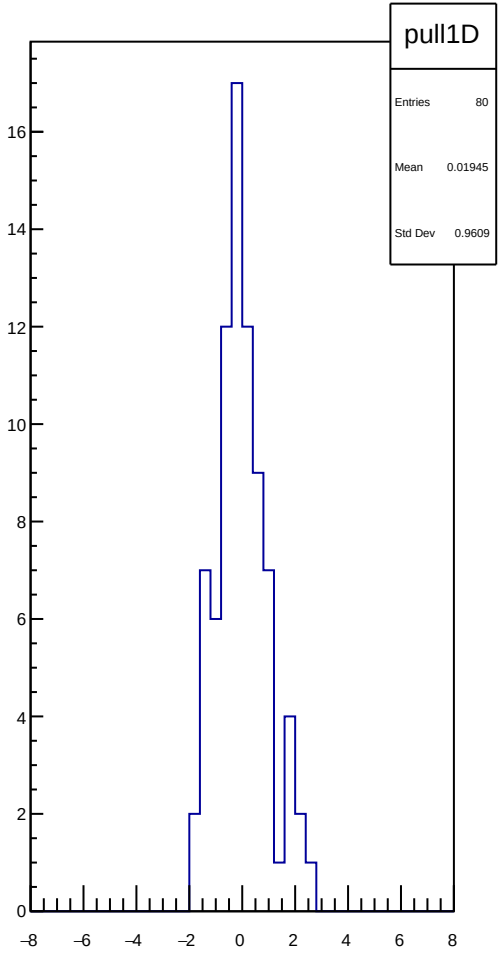

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 67.7 / 79
p0 −13.83 ± 1.869
pull
Entries 80
Mean 1.987e+04
Std Dev 1.981e+04

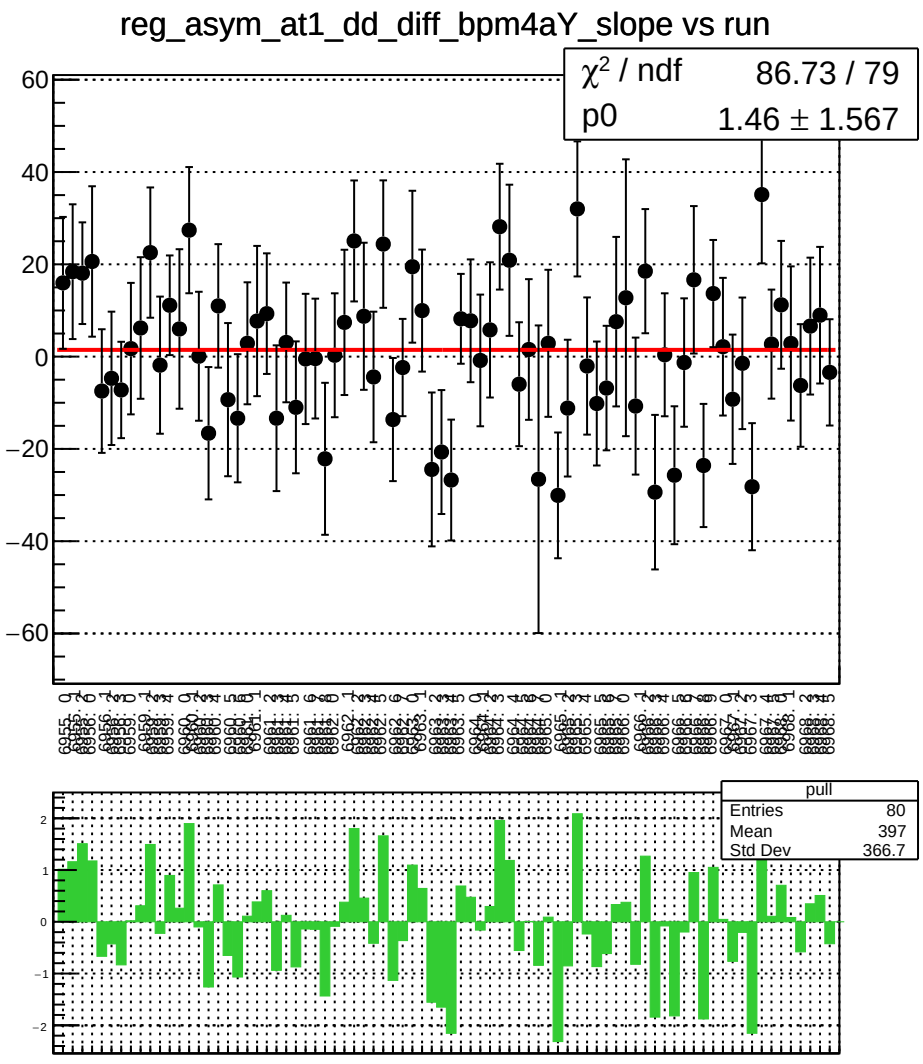

pull1D
Entries 80
Mean 0.000124
Std Dev 0.9199

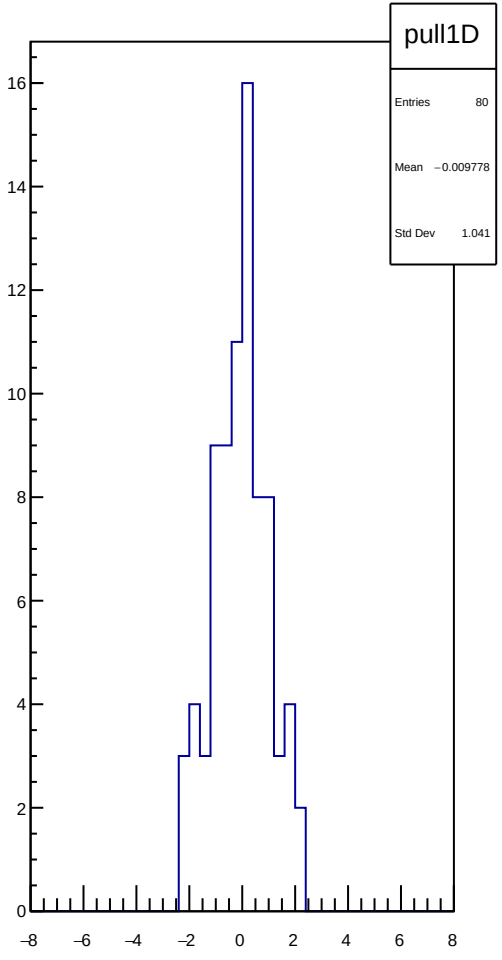

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 198.6 / 79
p0 −20.16 ± 0.07256
pull
Entries 80
Mean 1851
Std Dev 1867

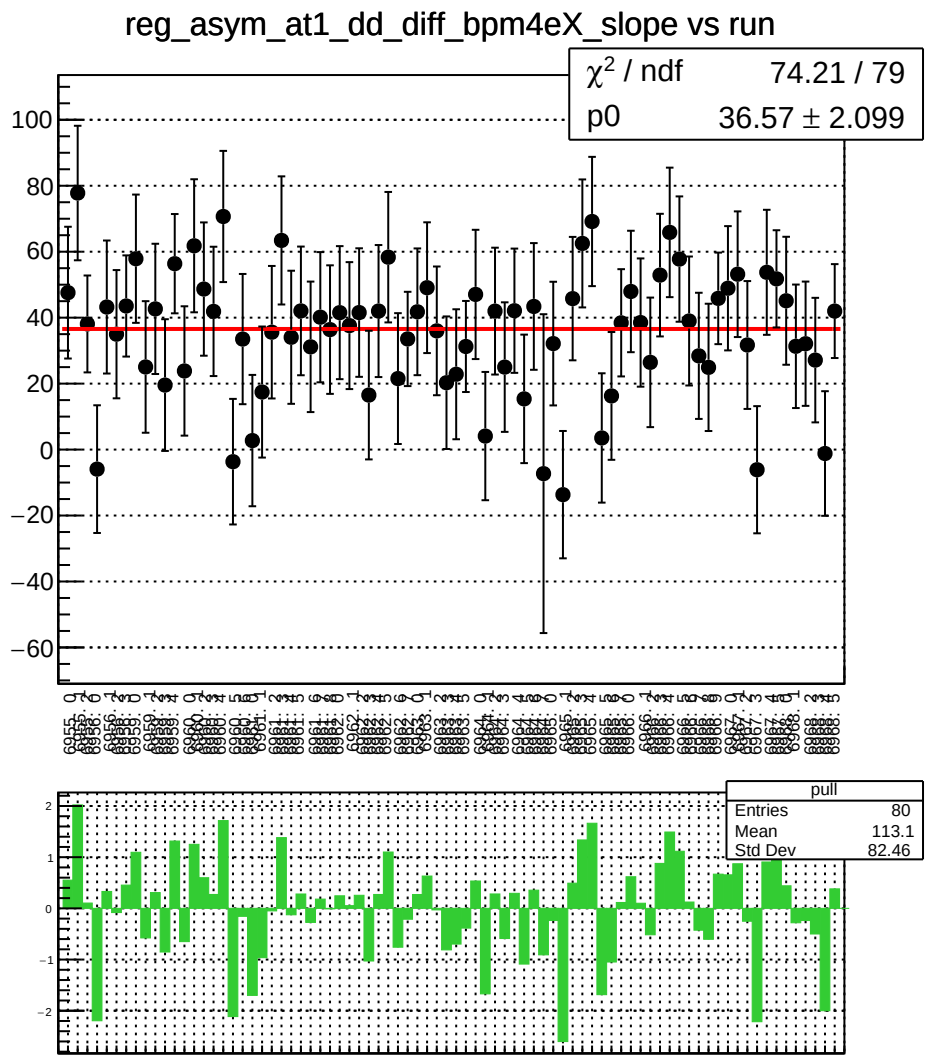

pull1D
Entries 80
Mean −0.0009834
Std Dev 1.576

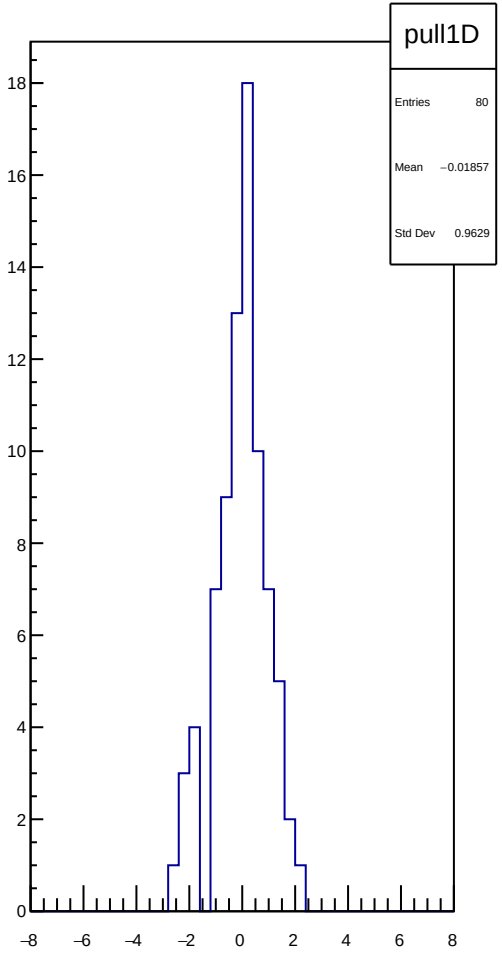

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ^2 / ndf 73.89 / 79
p0 11.26 ± 2.267
pull
Entries 80
Mean 123.7
Std Dev 89.64

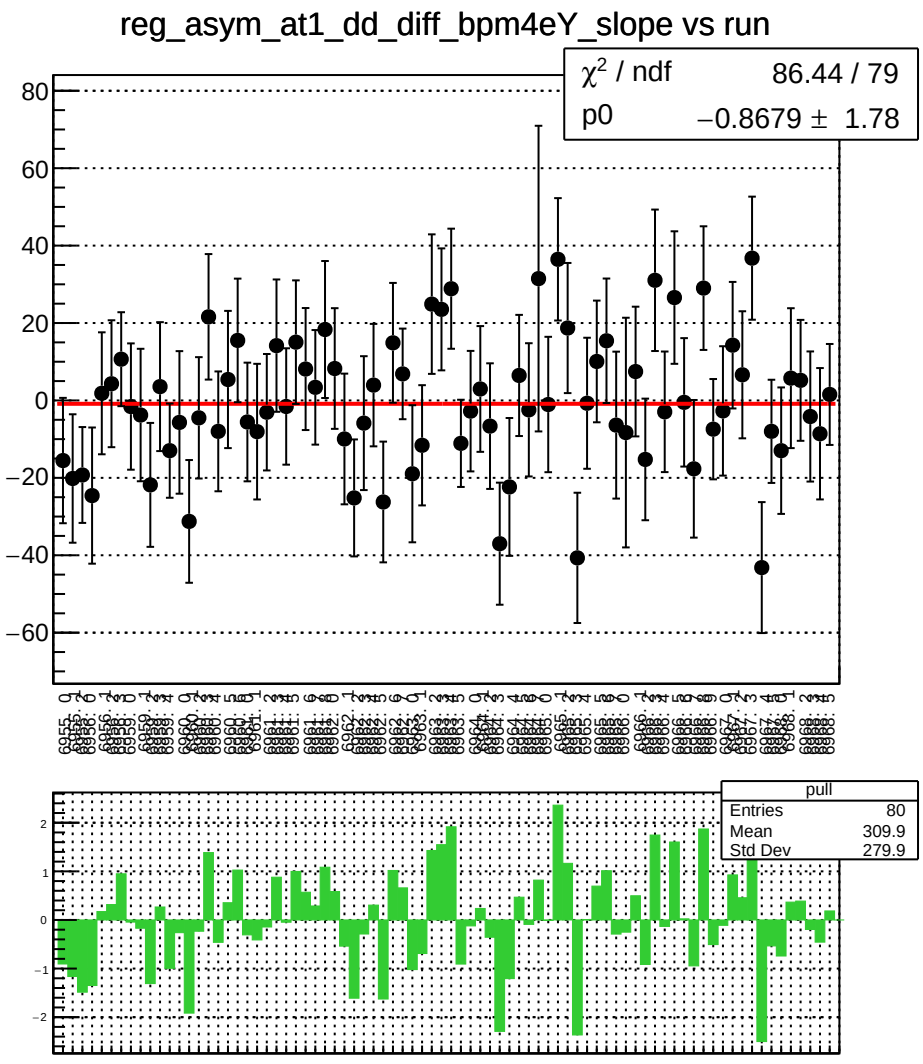

pull1D
Entries 80
Mean 0.01945
Std Dev 0.9609

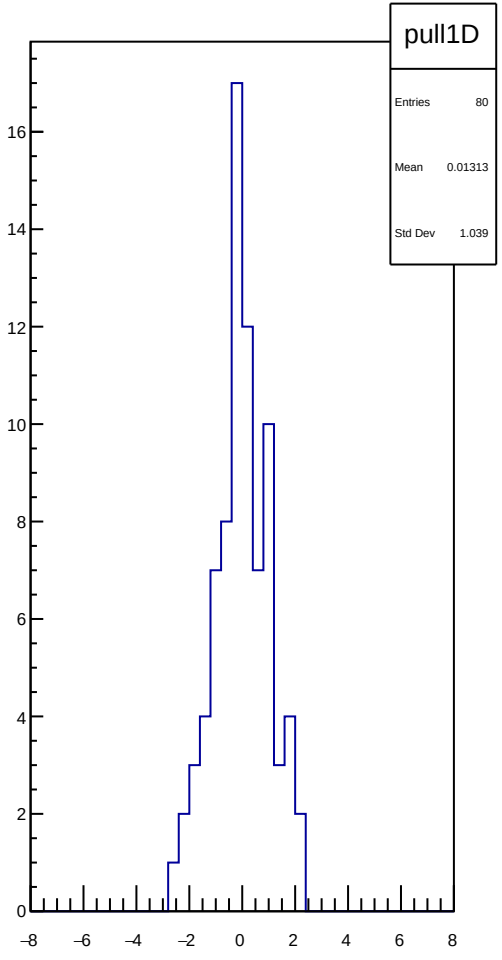

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.73 / 79
p0 1.46 ± 1.567
pull
Entries 80
Mean 397
Std Dev 366.7

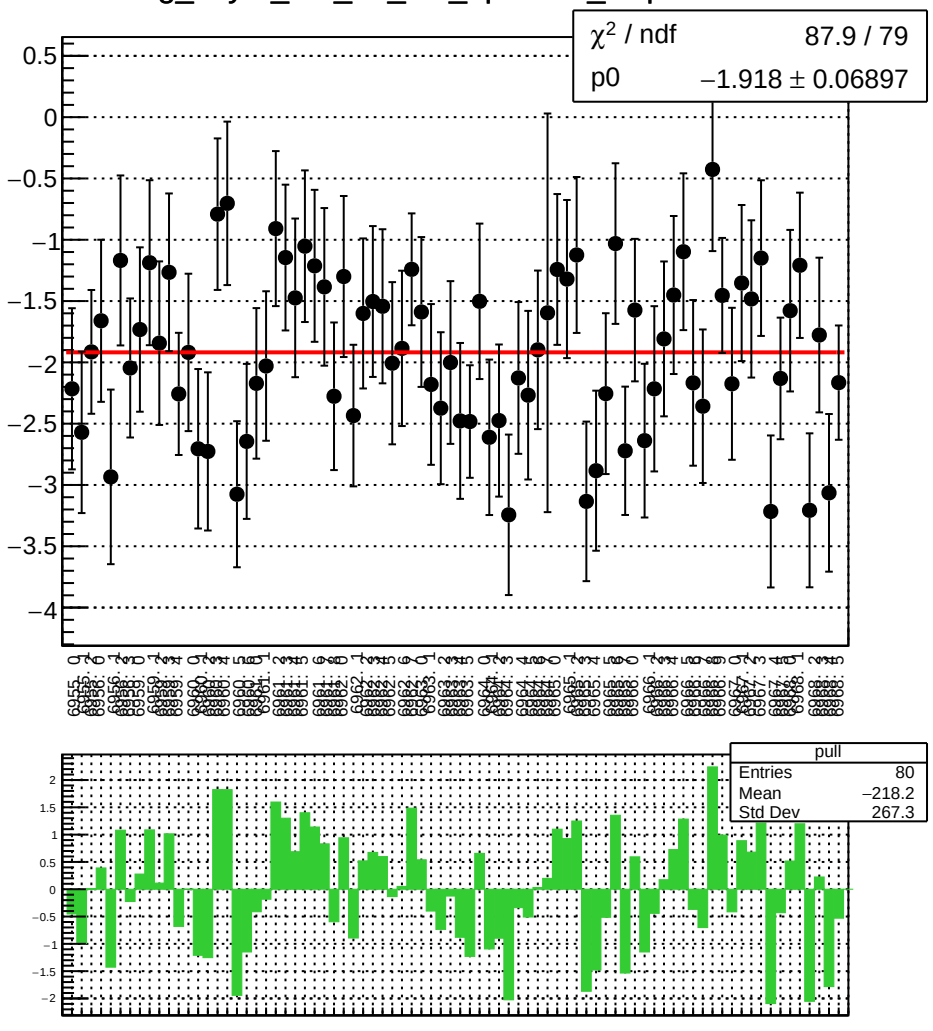

pull1D
Entries 80
Mean −0.009778
Std Dev 1.041

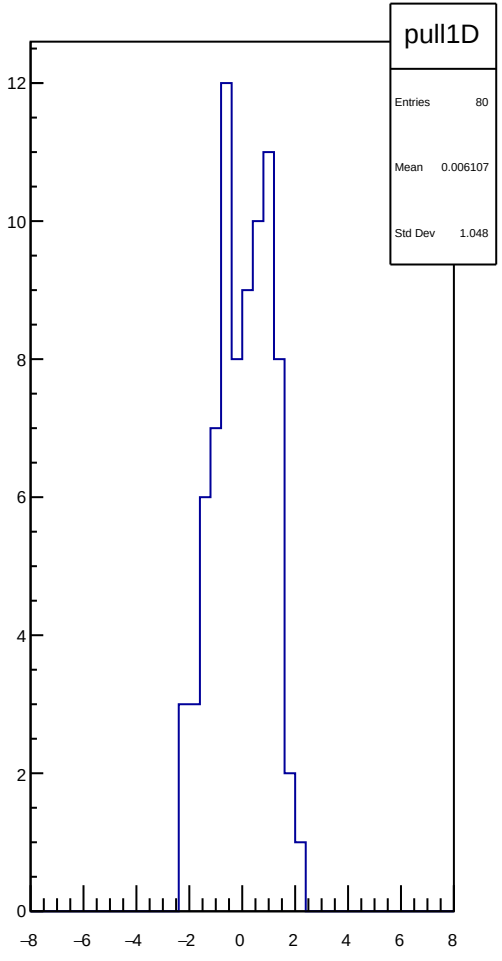

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.21 / 79
p0 36.57 ± 2.099
pull
Entries 80
Mean 113.1
Std Dev 82.46

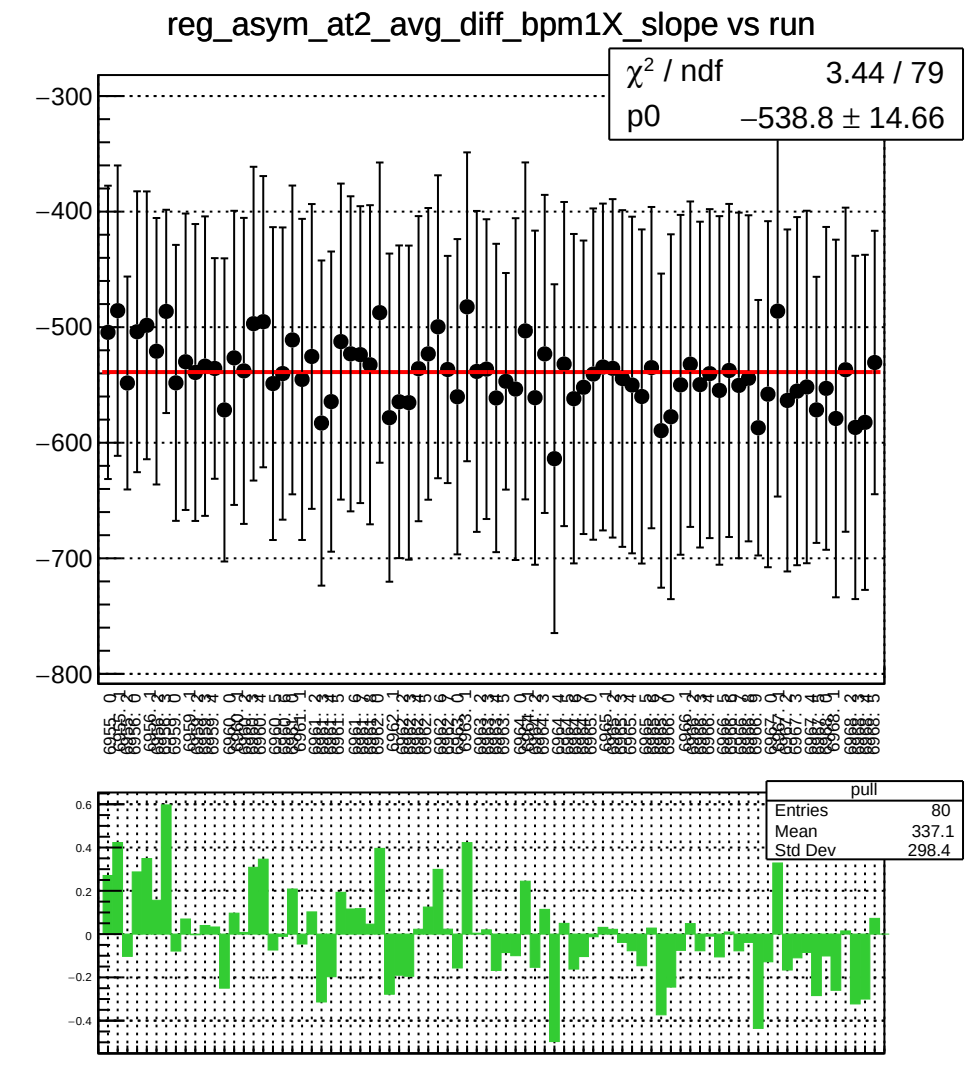

pull1D
Entries 80
Mean −0.01857
Std Dev 0.9629

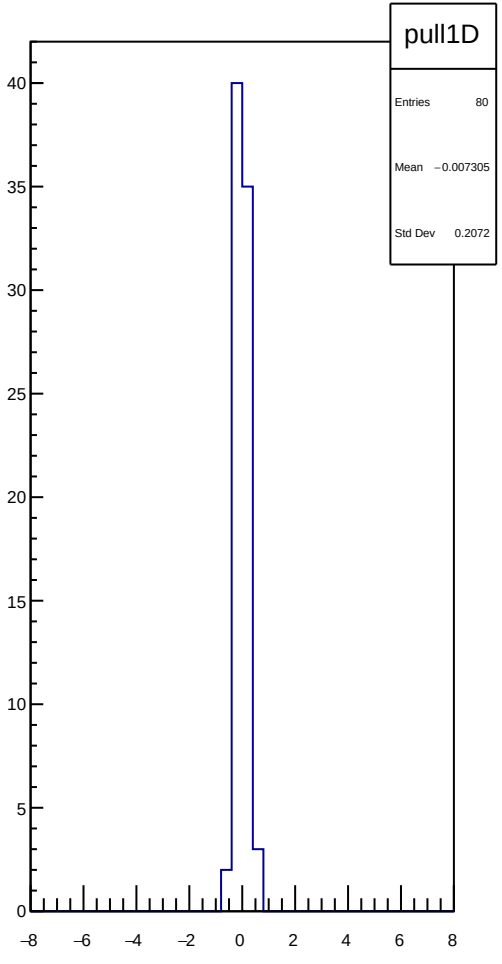

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 86.44 / 79
p0 −0.8679 ± 1.78
pull
Entries 80
Mean 309.9
Std Dev 279.9

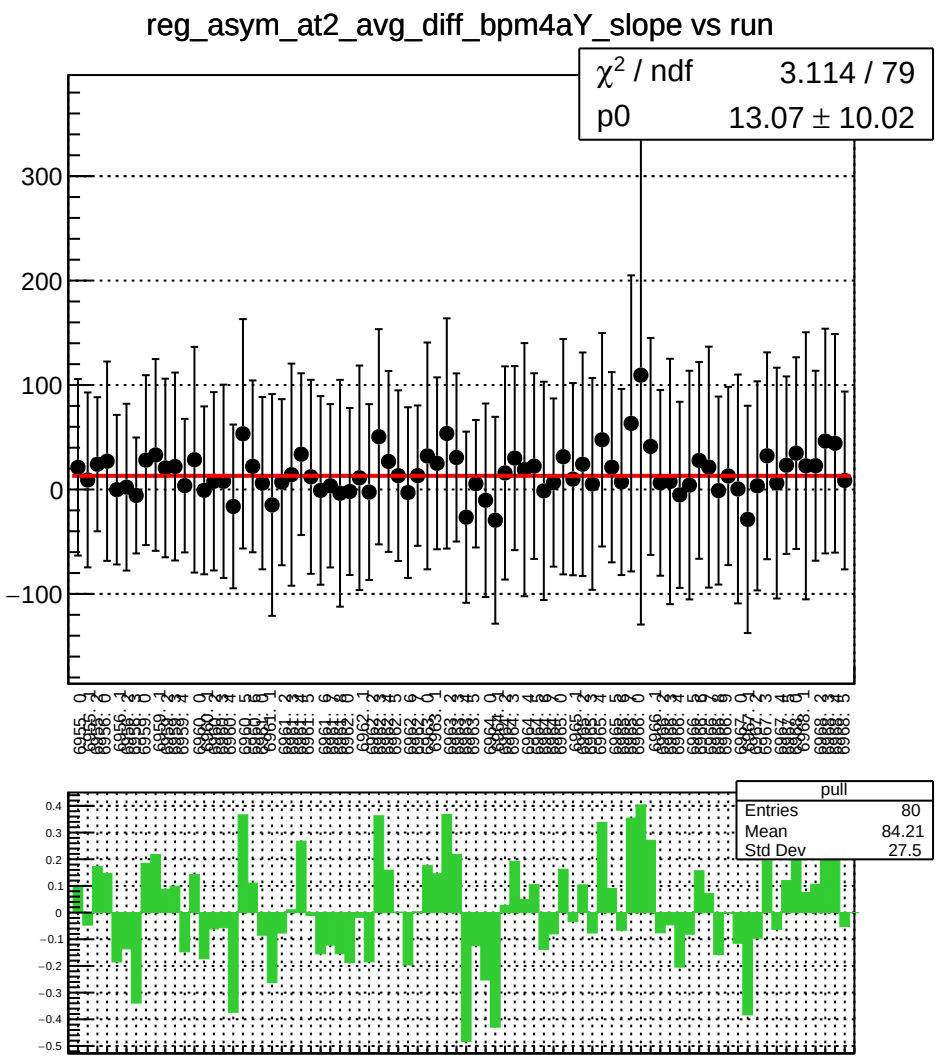

pull1D
Entries 80
Mean 0.01313
Std Dev 1.039

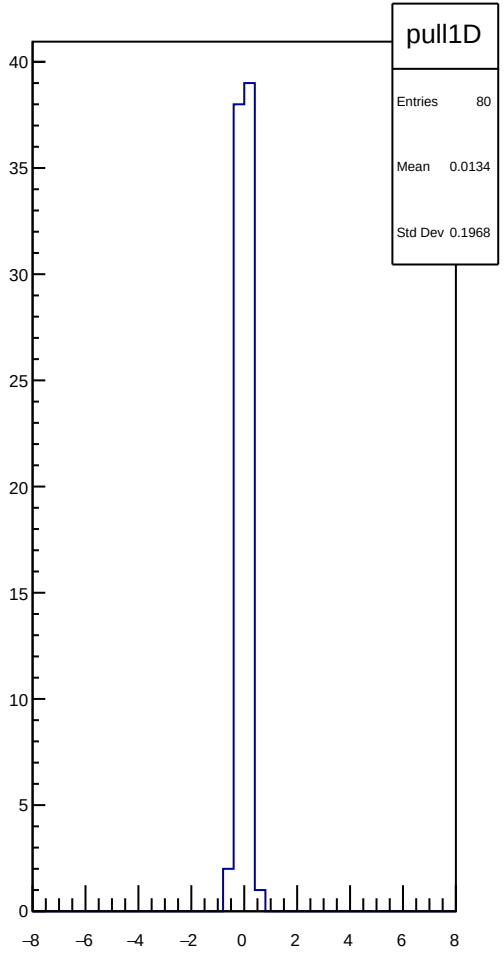

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 87.9 / 79
p0 −1.918 ± 0.06897
pull
Entries 80
Mean −218.2
Std Dev 267.3

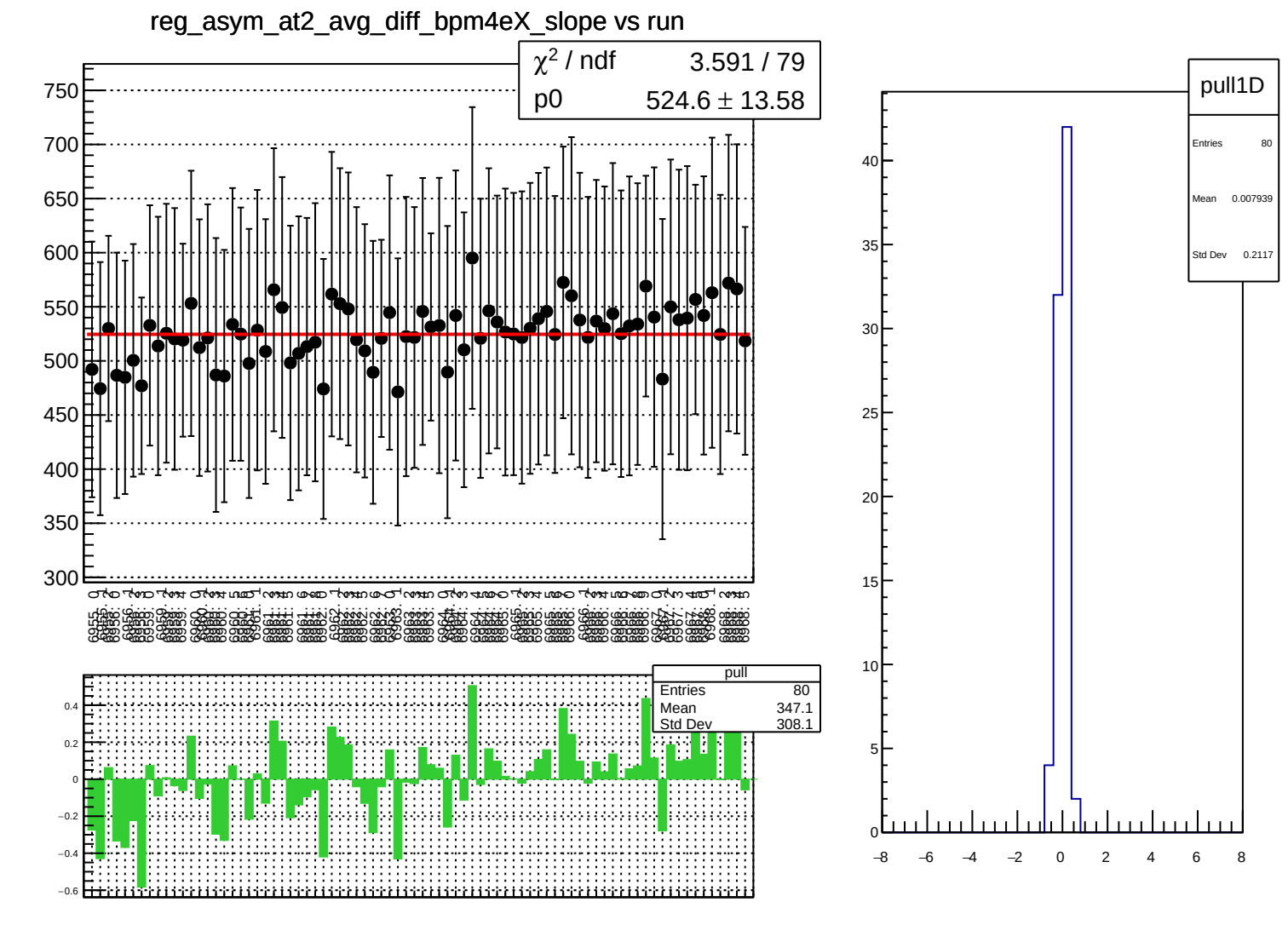

pull1D
Entries 80
Mean 0.006107
Std Dev 1.048

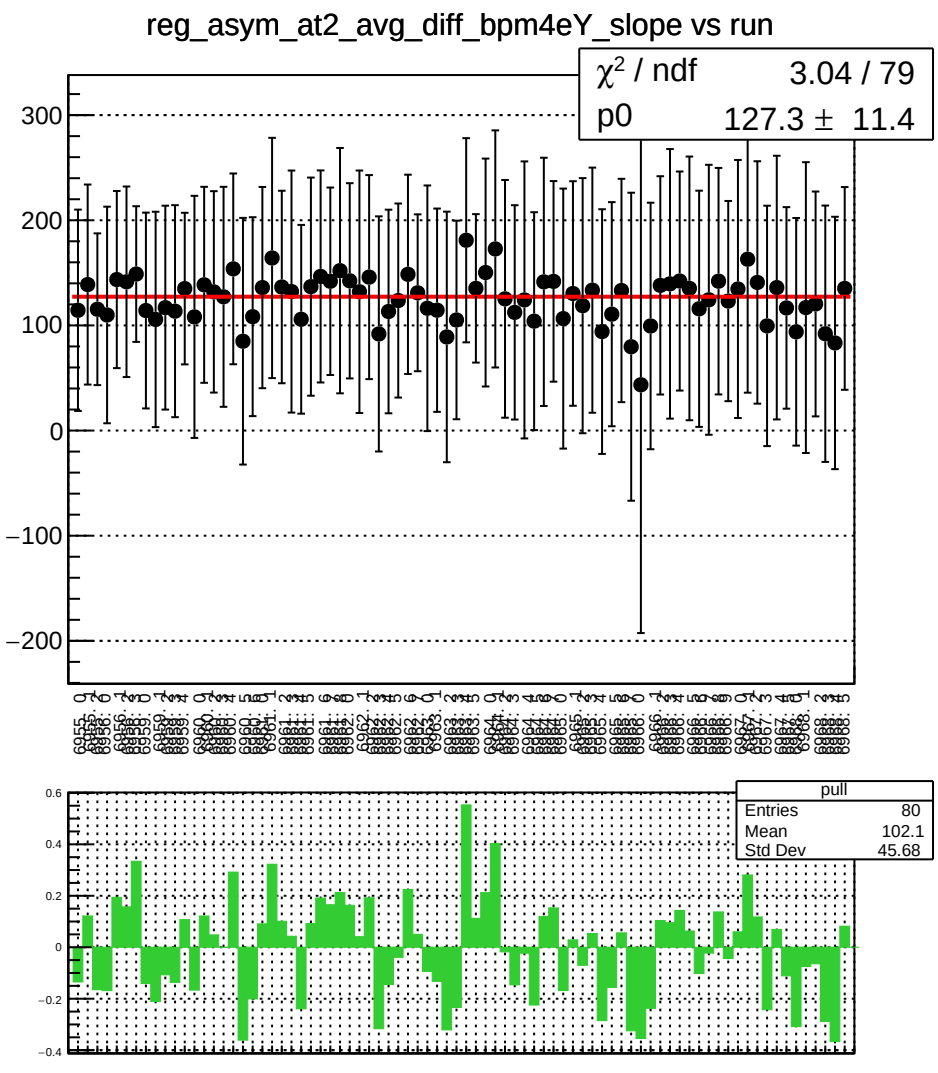

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.44 / 79
p0 −538.8 ± 14.66
pull
Entries 80
Mean 337.1
Std Dev 298.4

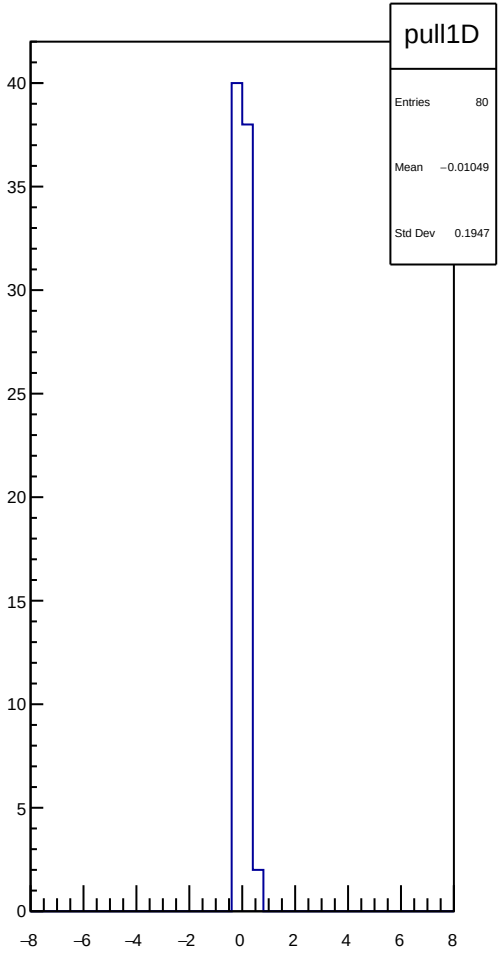

pull1D
Entries 80
Mean −0.007305
Std Dev 0.2072

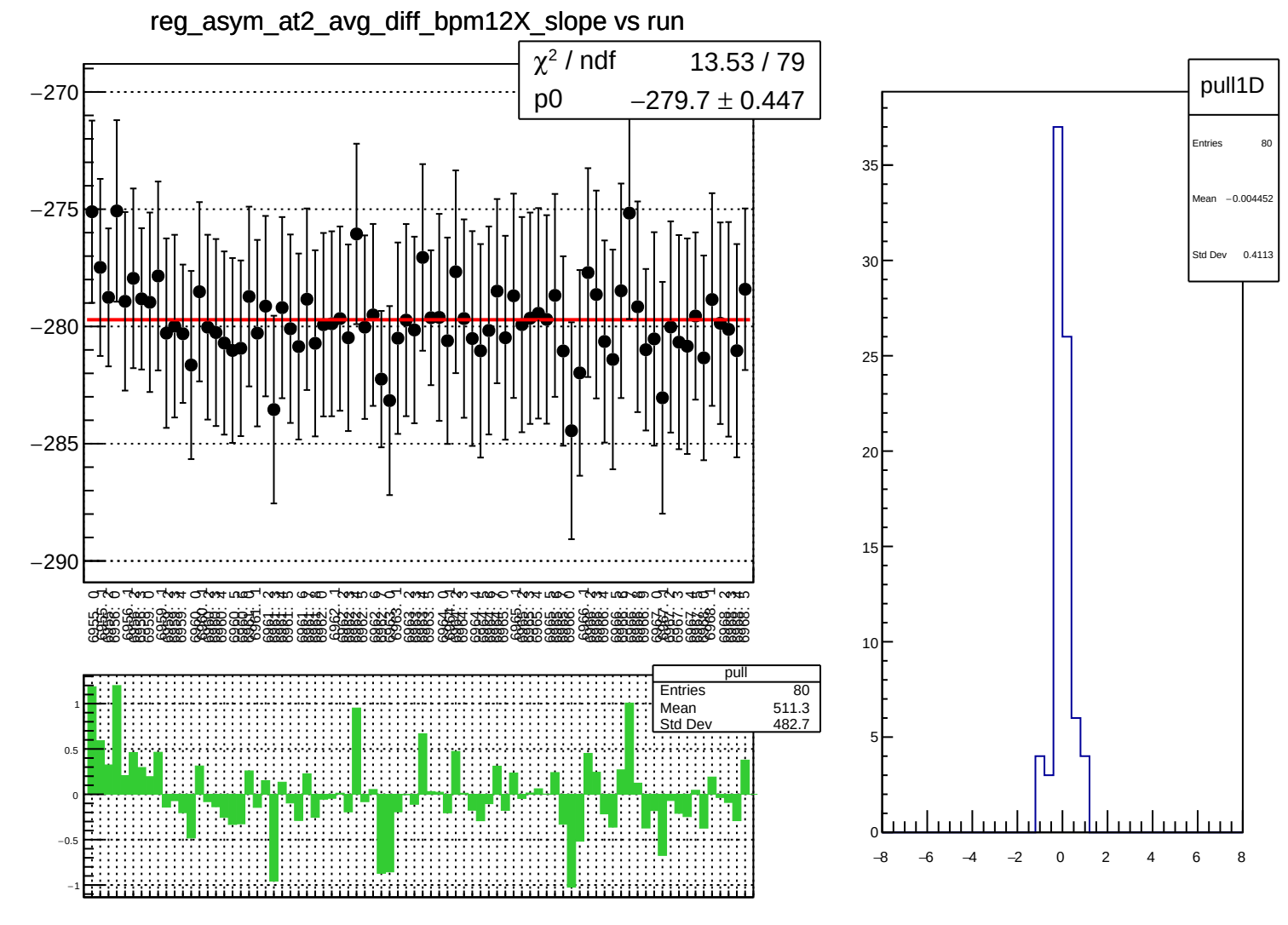

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.114 / 79
p0 13.07 ± 10.02
300
200
100
0
−100
pull
Entries 80
Mean 84.21
Std Dev 27.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

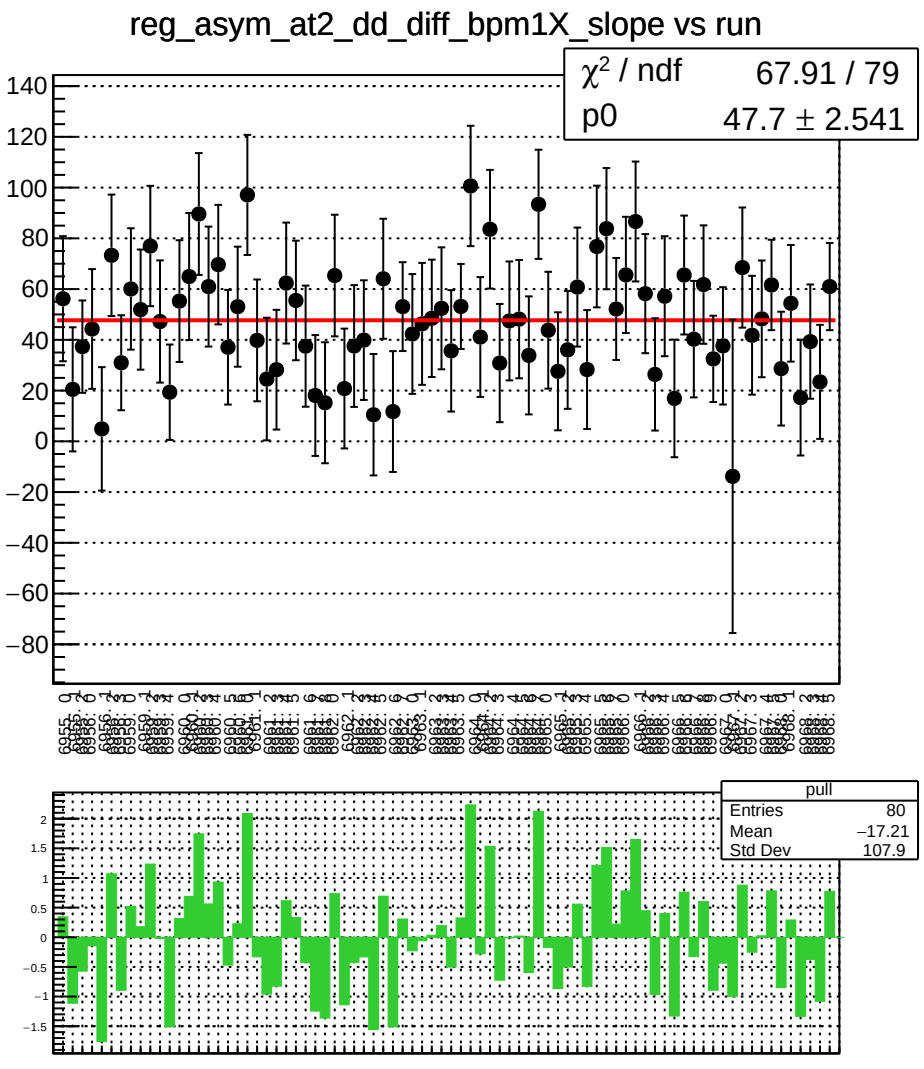

pull1D
Entries 80
Mean 0.0134
Std Dev 0.1968
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

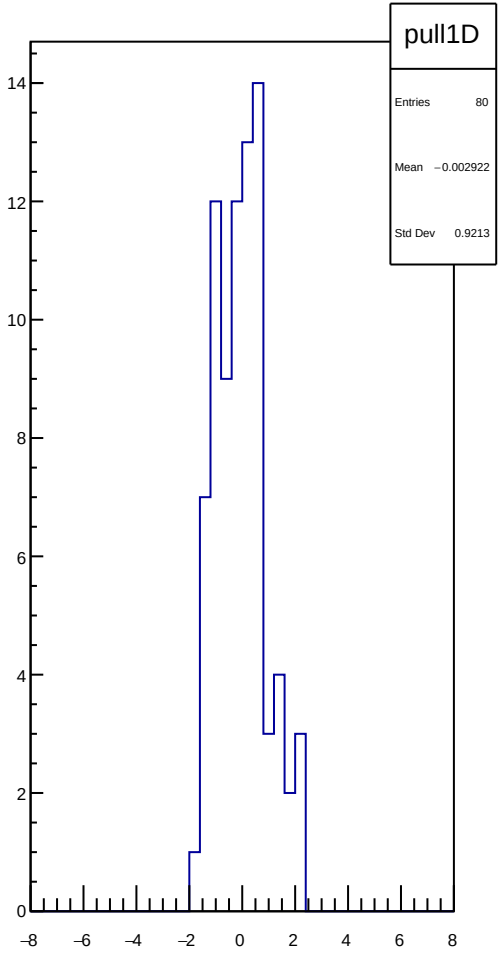

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.591 / 79
p0 524.6 ± 13.58
pull
Entries 80
Mean 347.1
Std Dev 308.1
pull1D
Entries 80
Mean 0.007939
Std Dev 0.2117

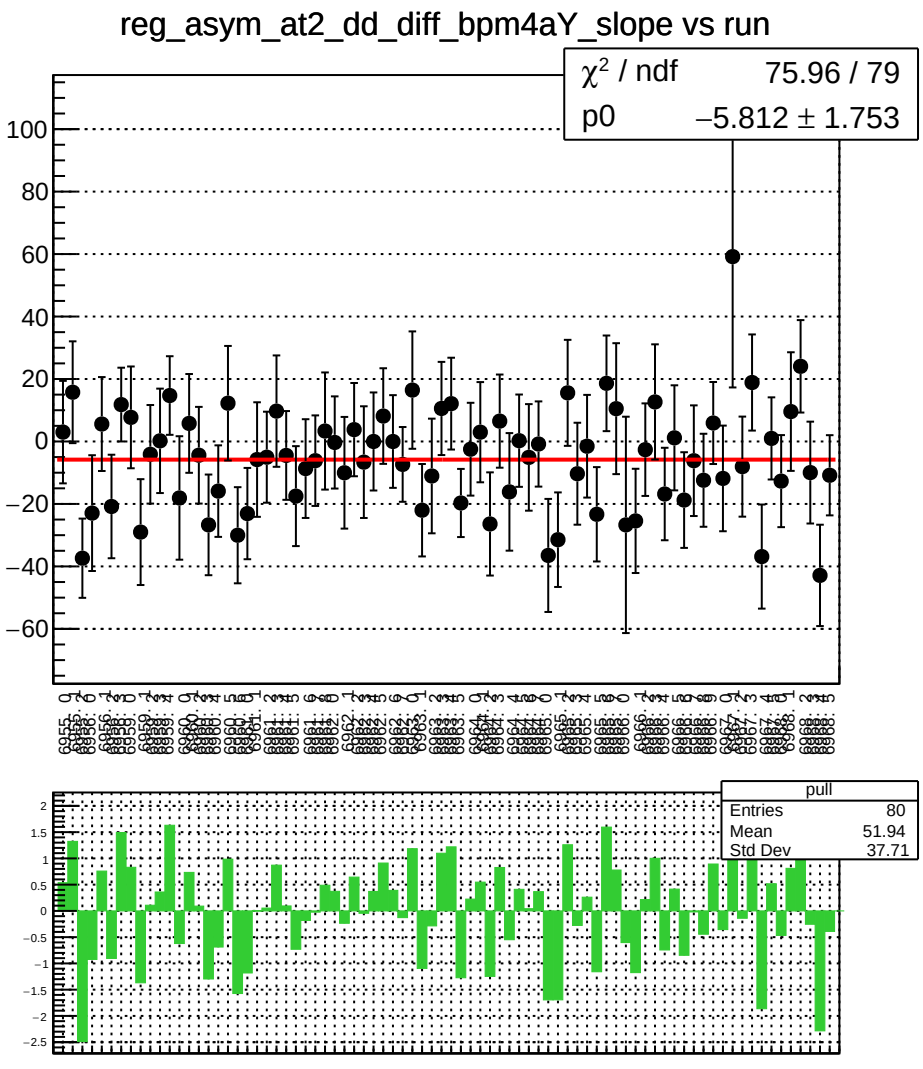

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.04 / 79
p0 127.3 ± 11.4
pull
Entries 80
Mean 102.1
Std Dev 45.68

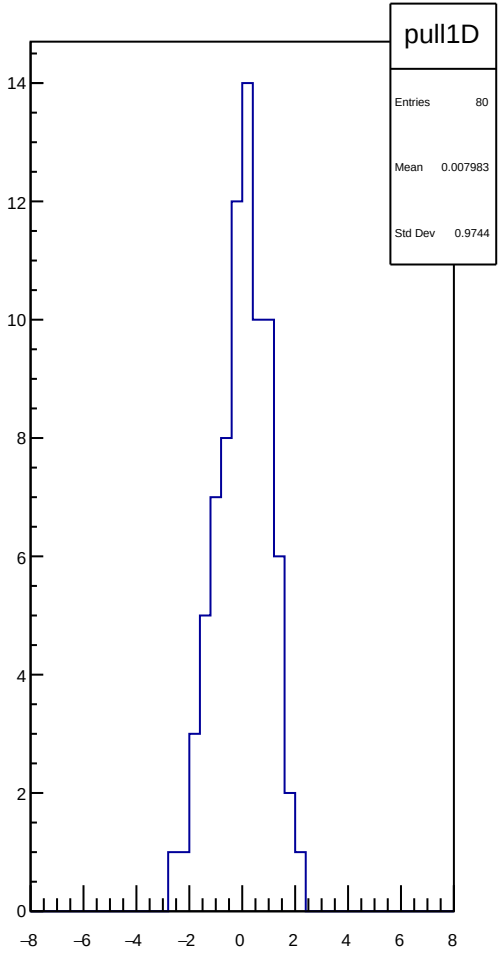

pull1D
Entries 80
Mean −0.01049
Std Dev 0.1947

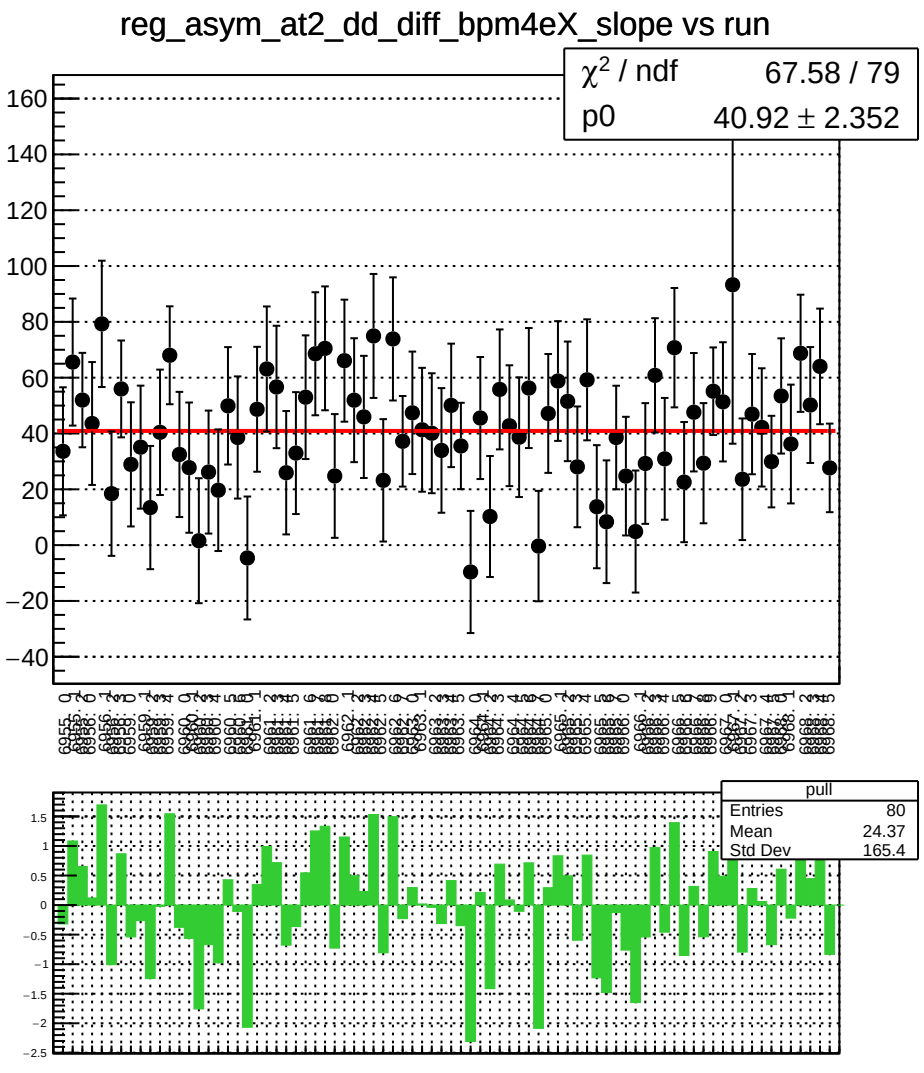

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 13.53 / 79
p0 −279.7 ± 0.447
−270
−275
−280
−285
−290
pull
Entries 80
Mean 511.3
Std Dev 482.7
1
0.5
0
−0.5
−1
pull1D
Entries 80
Mean −0.004452
Std Dev 0.4113
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

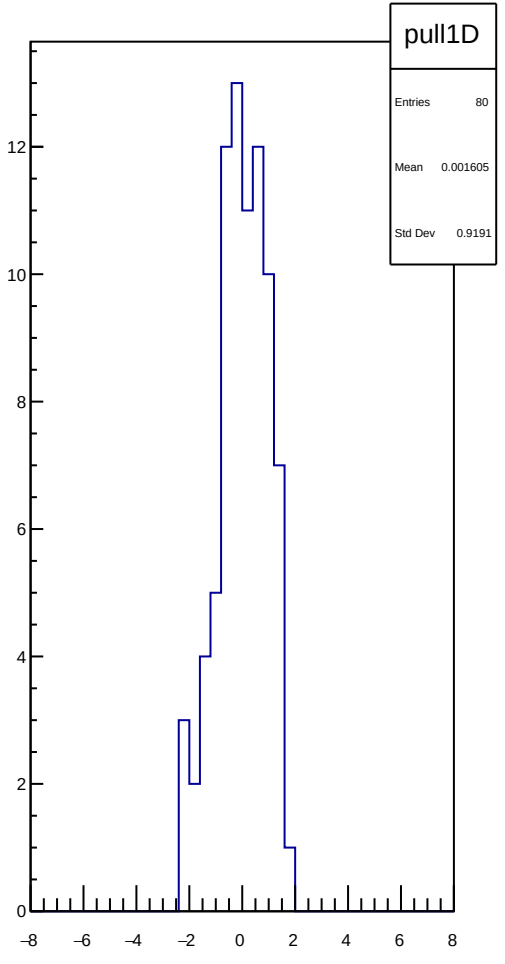

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 67.91 / 79
p0 47.7 ± 2.541
pull
Entries 80
Mean −17.21
Std Dev 107.9

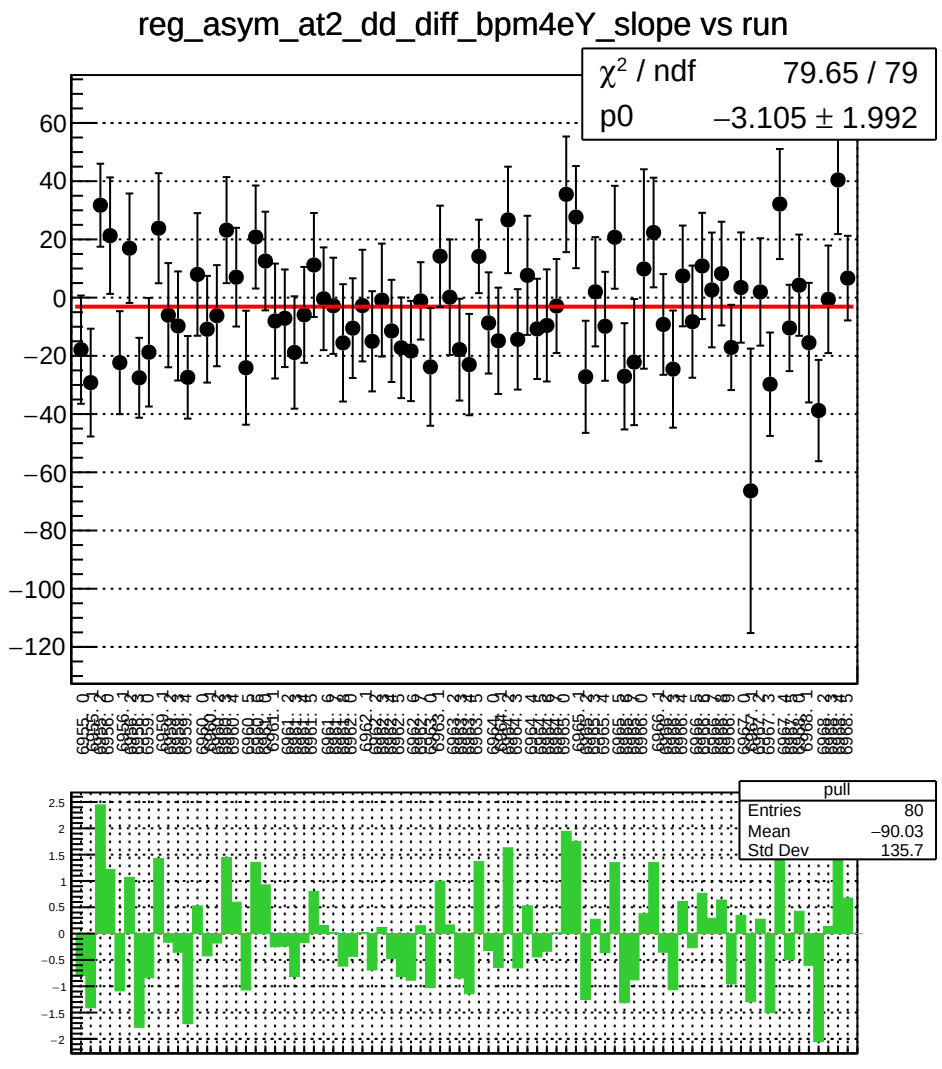

pull1D
Entries 80
Mean −0.002922
Std Dev 0.9213

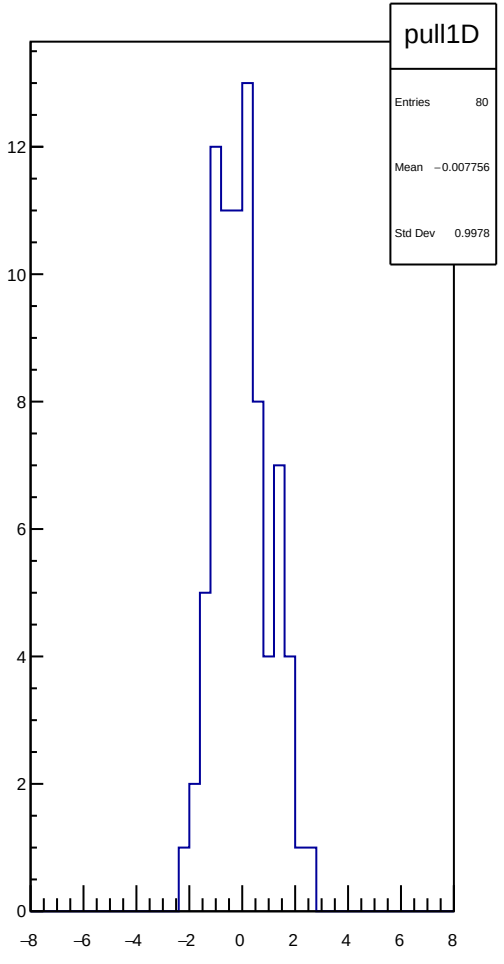

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 75.96 / 79
p0 −5.812 ± 1.753
pull
Entries 80
Mean 51.94
Std Dev 37.71

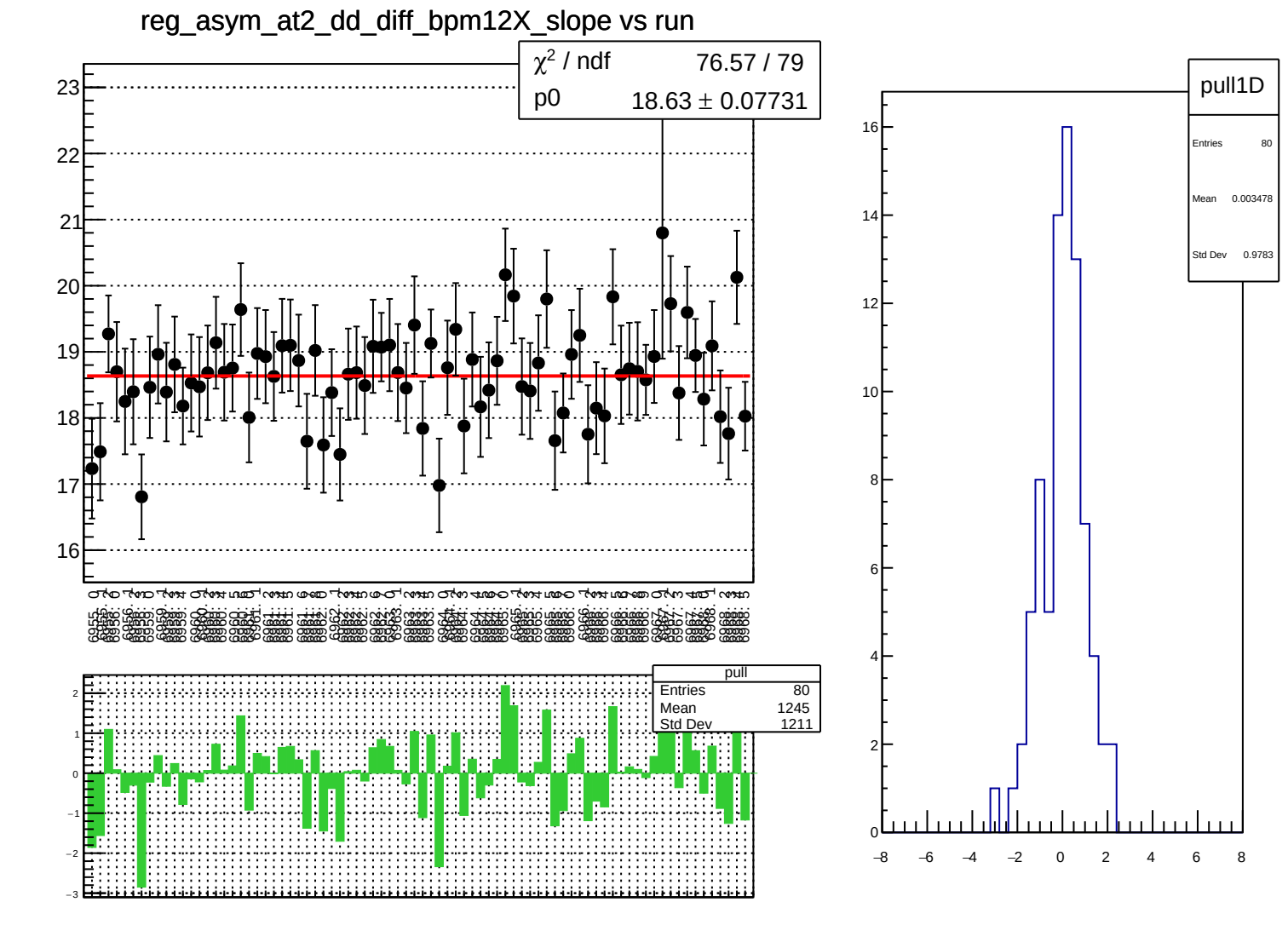

pull1D
Entries 80
Mean 0.007983
Std Dev 0.9744

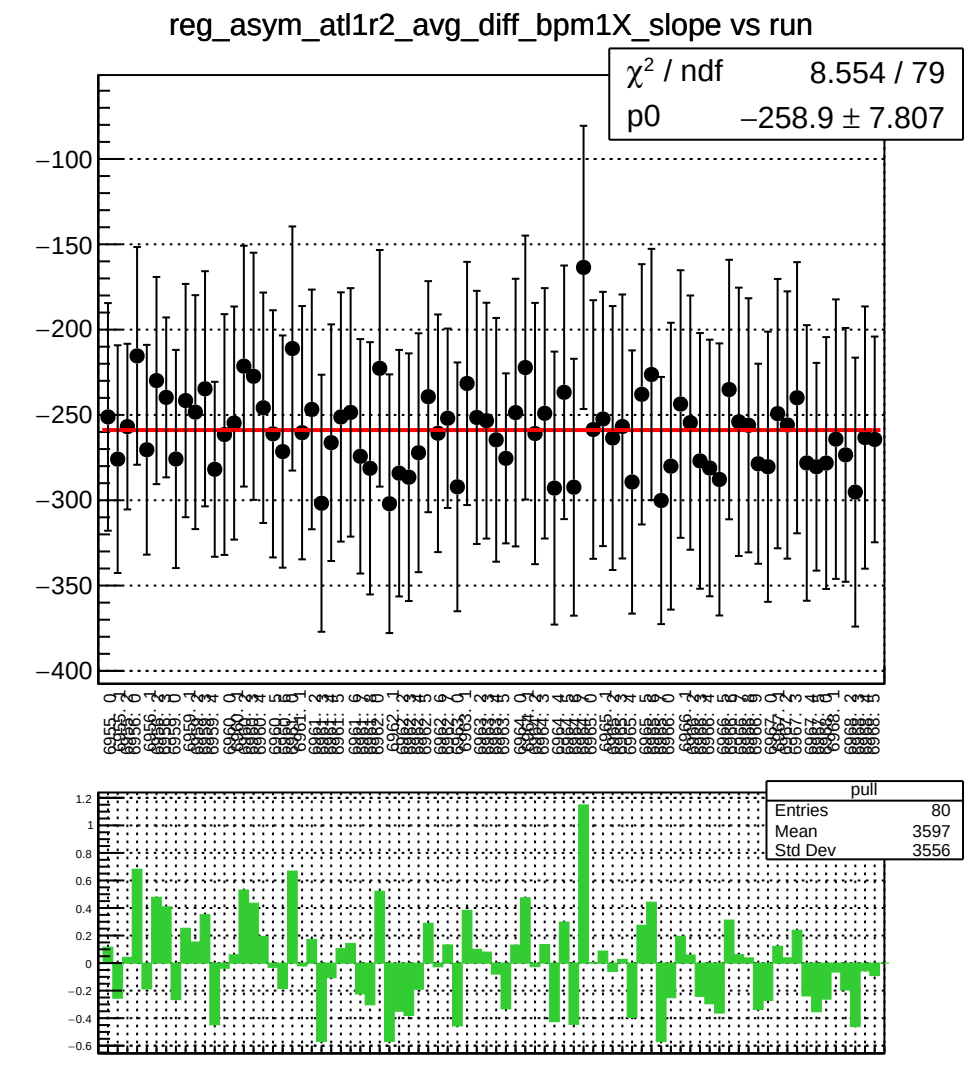

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.58 / 79
p0 40.92 ± 2.352
pull
Entries 80
Mean 24.37
Std Dev 165.4

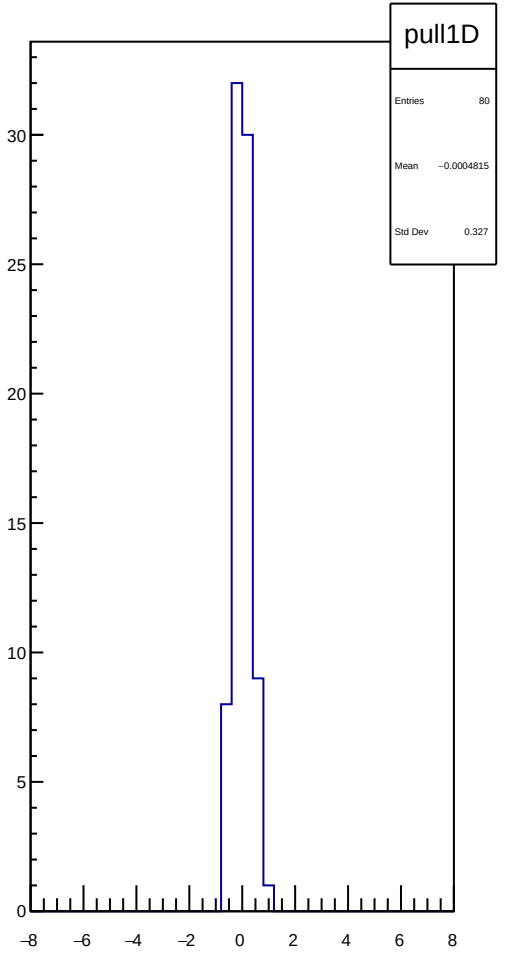

pull1D
Entries 80
Mean 0.001605
Std Dev 0.9191

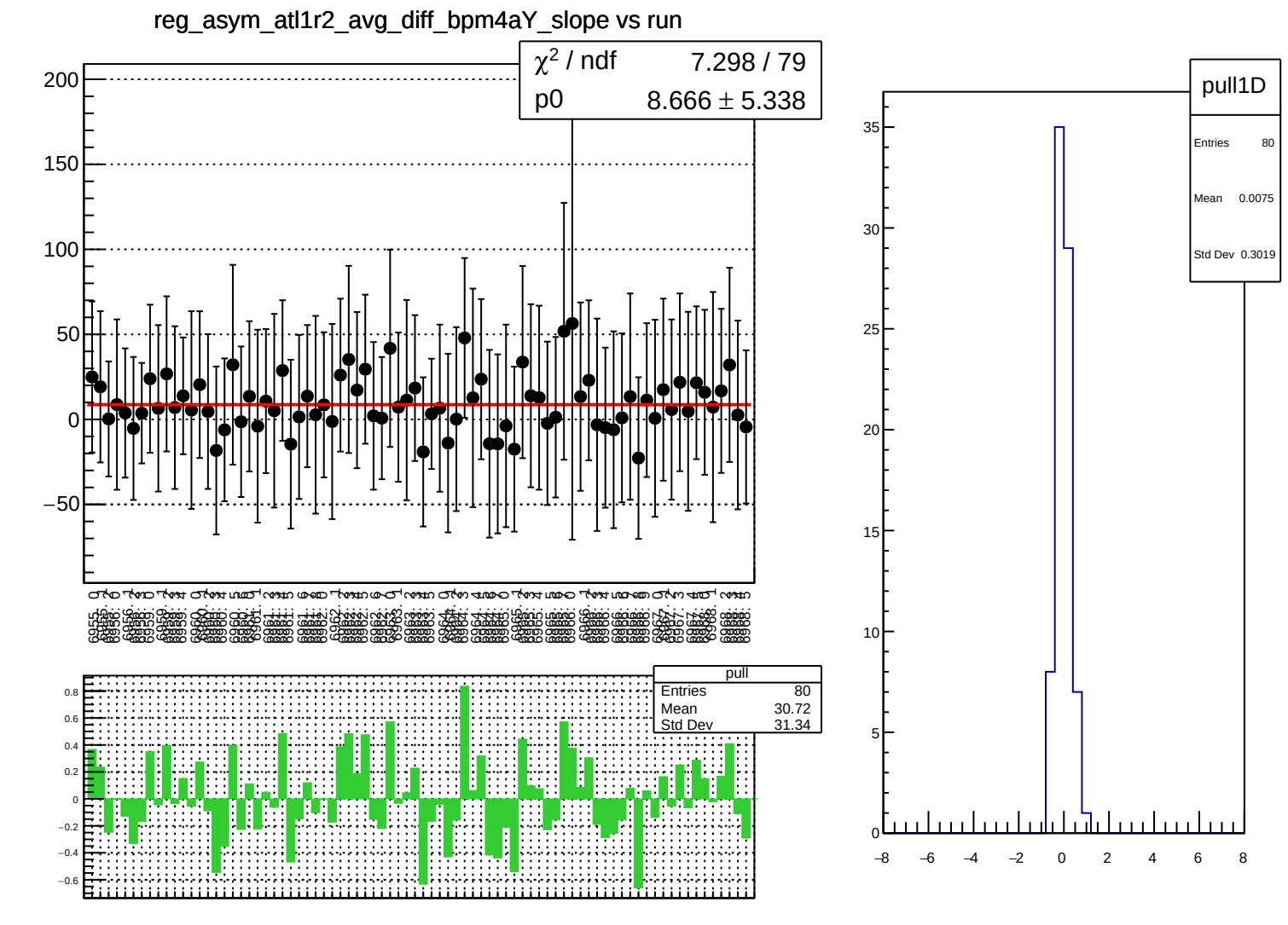

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.65 / 79
p0 −3.105 ± 1.992
pull
Entries 80
Mean −90.03
Std Dev 135.7

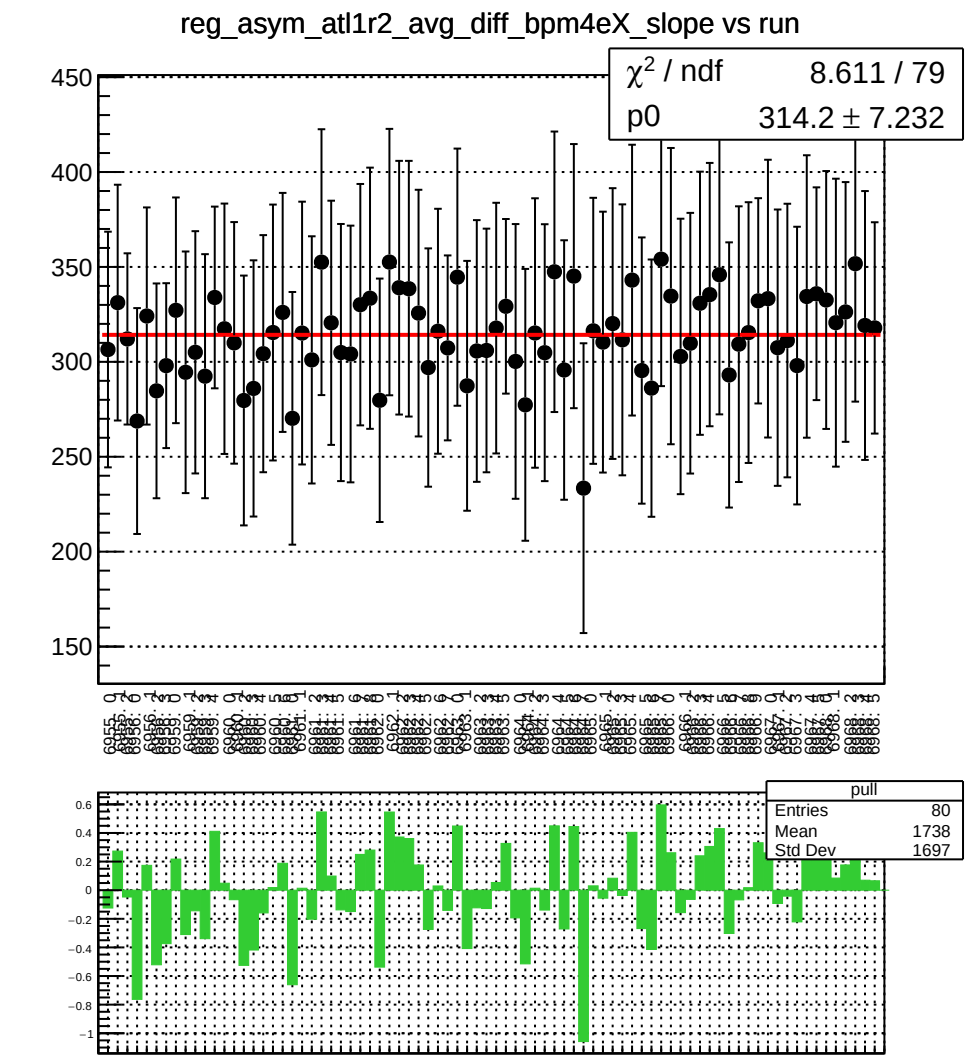

pull1D
Entries 80
Mean −0.007756
Std Dev 0.9978

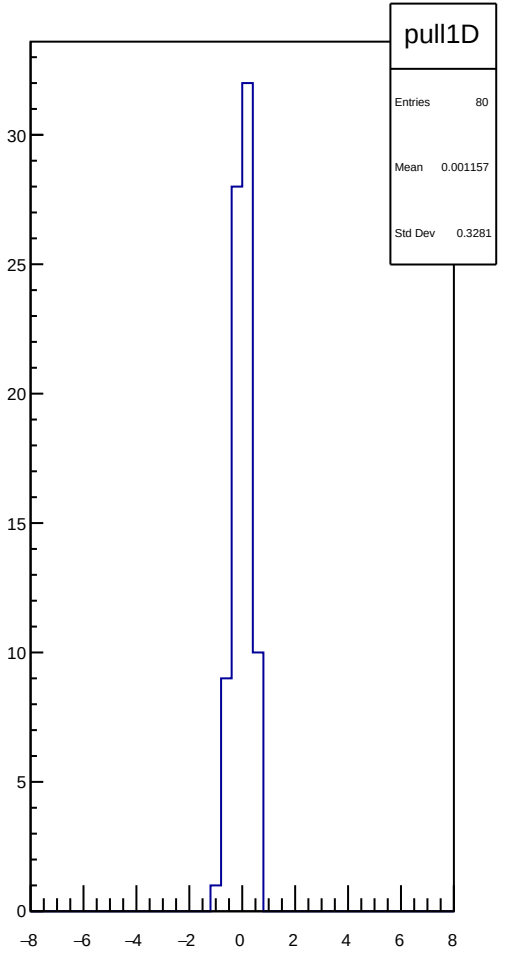

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 76.57 / 79
p0 18.63 ± 0.07731
pull
Entries 80
Mean 1245
Std Dev 1211
pull1D
Entries 80
Mean 0.003478
Std Dev 0.9783

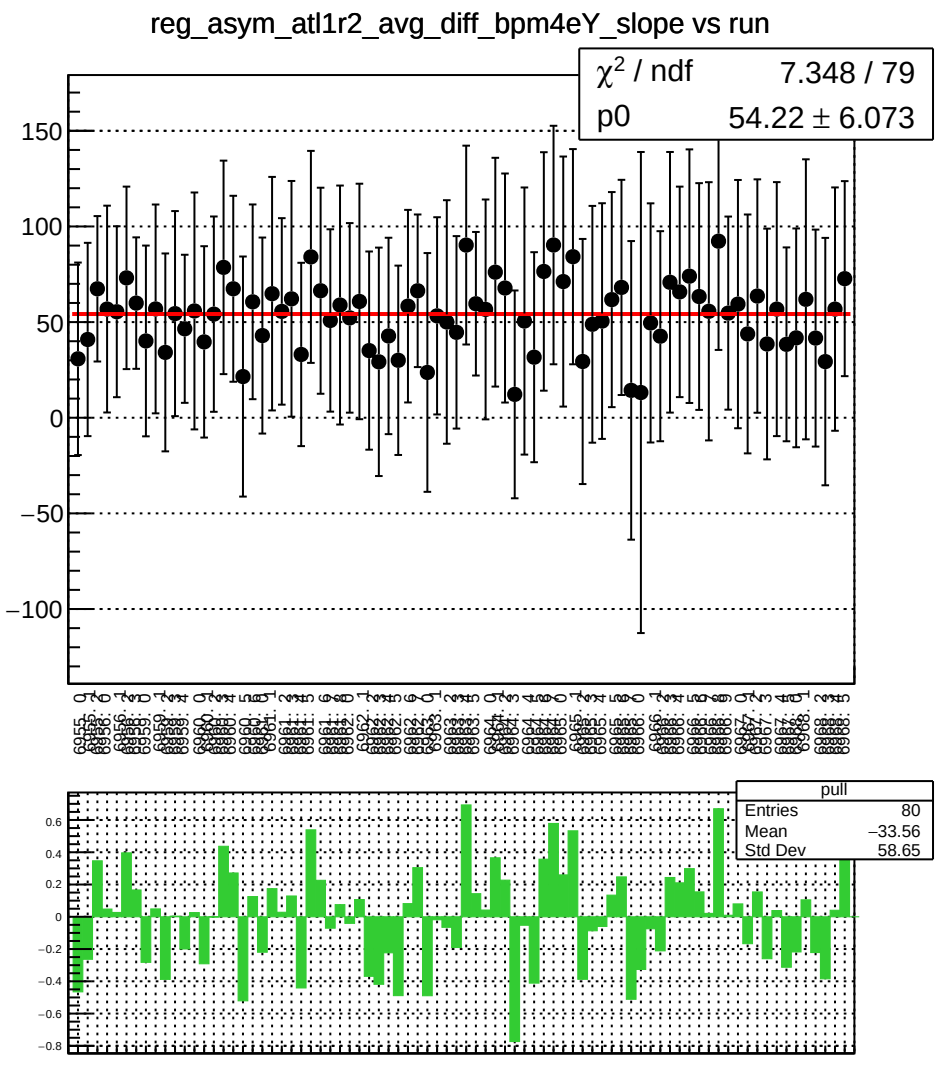

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 8.554 / 79
p0 −258.9 ± 7.807
pull
Entries 80
Mean 3597
Std Dev 3556

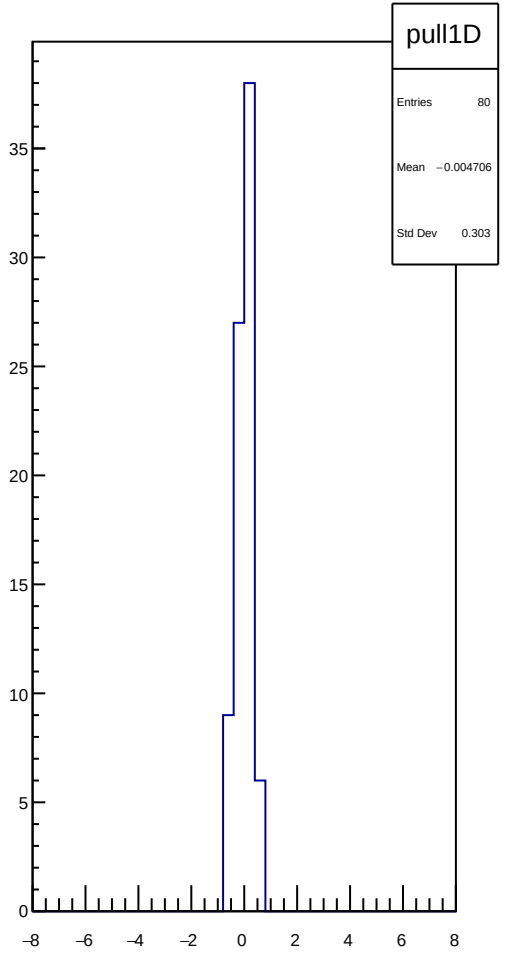

pull1D
Entries 80
Mean −0.0004815
Std Dev 0.327

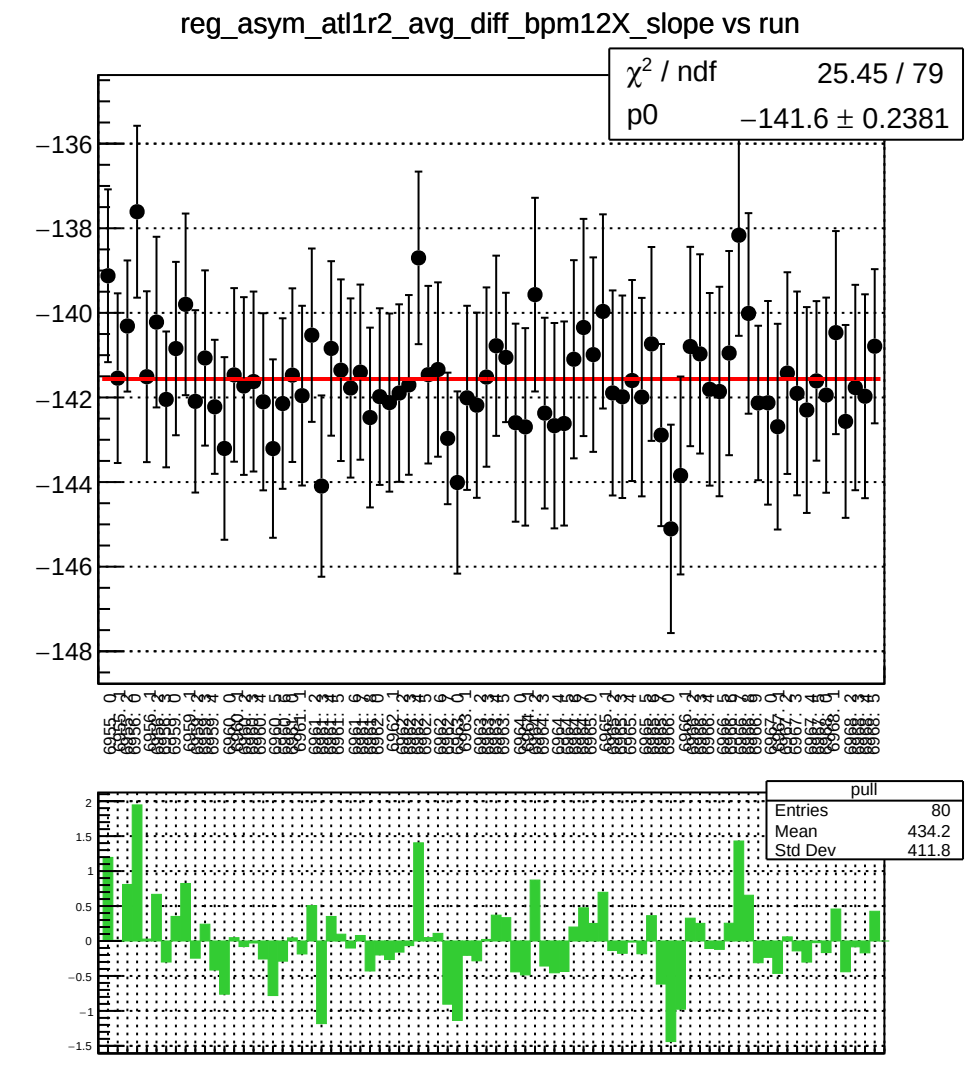

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.298 / 79
p0 8.666 ± 5.338
pull
Entries 80
Mean 30.72
Std Dev 31.34
pull1D
Entries 80
Mean 0.0075
Std Dev 0.3019

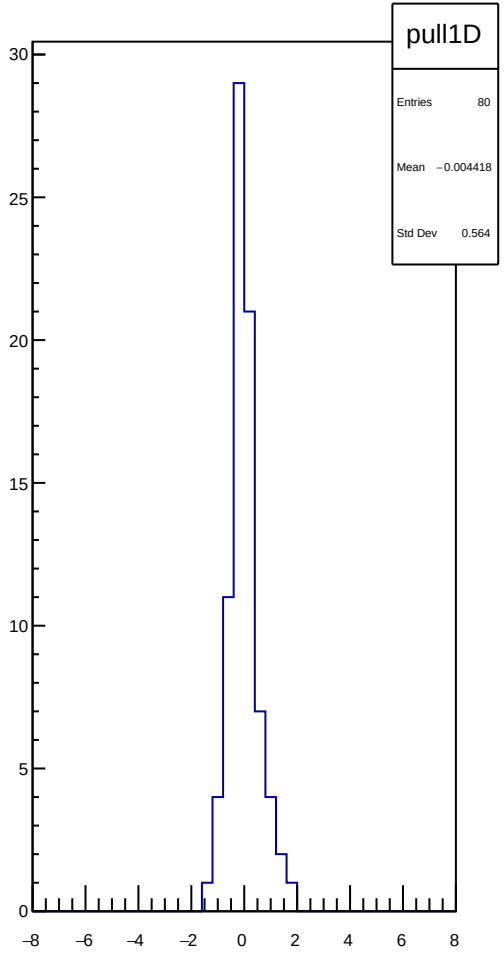

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.611 / 79
p0 314.2 ± 7.232
pull
Entries 80
Mean 1738
Std Dev 1697


pull1D
Entries 80
Mean 0.001157
Std Dev 0.3281


reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.348 / 79
p0 54.22 ± 6.073
150
100
50
0
−50
−100
pull
Entries 80
Mean −33.56
Std Dev 58.65
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8


pull1D
Entries 80
Mean −0.004706
Std Dev 0.303
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 25.45 / 79
p0 −141.6 ± 0.2381
−136
−138
−140
−142
−144
−146
−148
pull
Entries 80
Mean 434.2
Std Dev 411.8
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 80
Mean −0.004418
Std Dev 0.564
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25
20
15
10
5
0
−8
−6
−4
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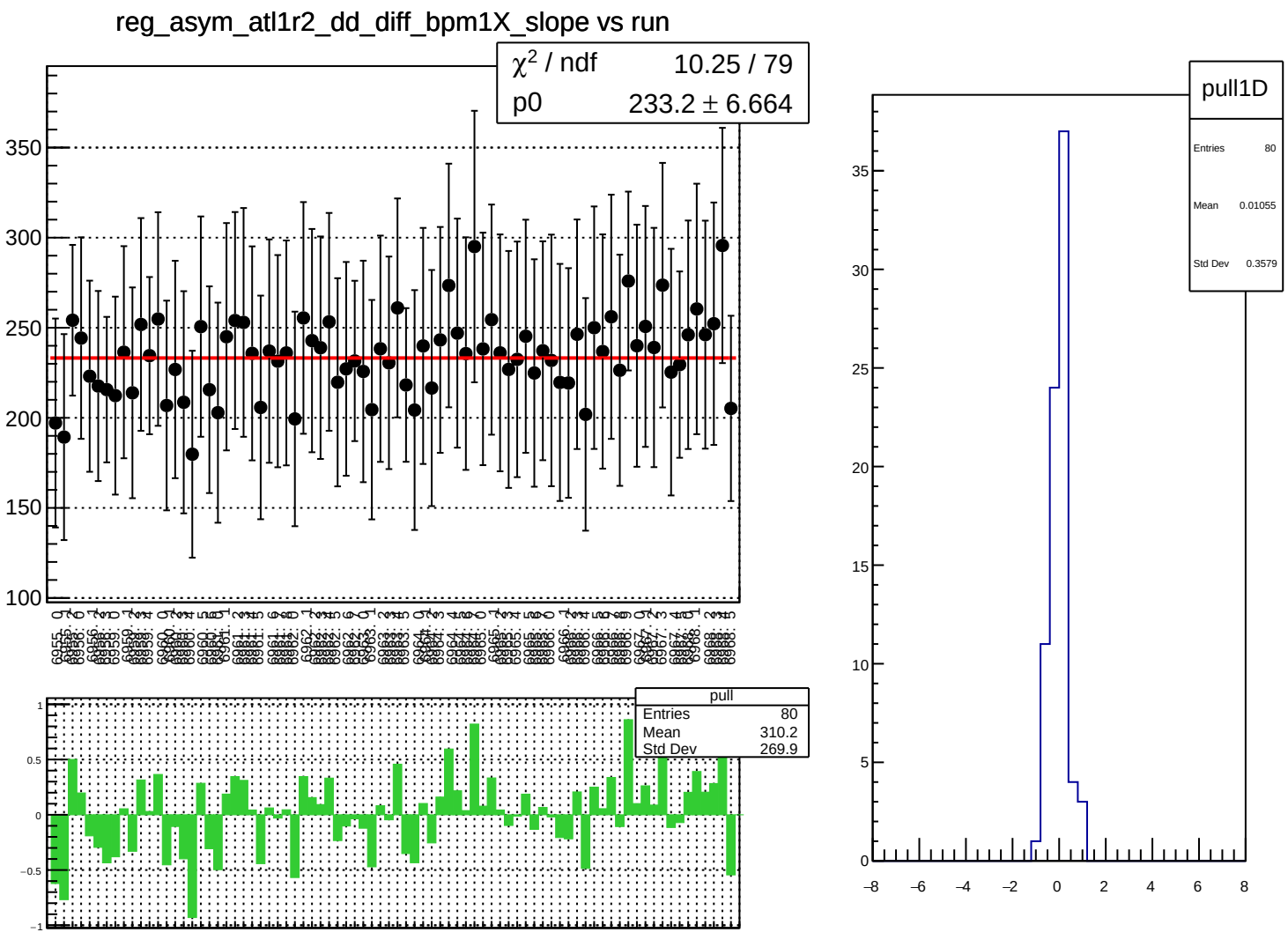
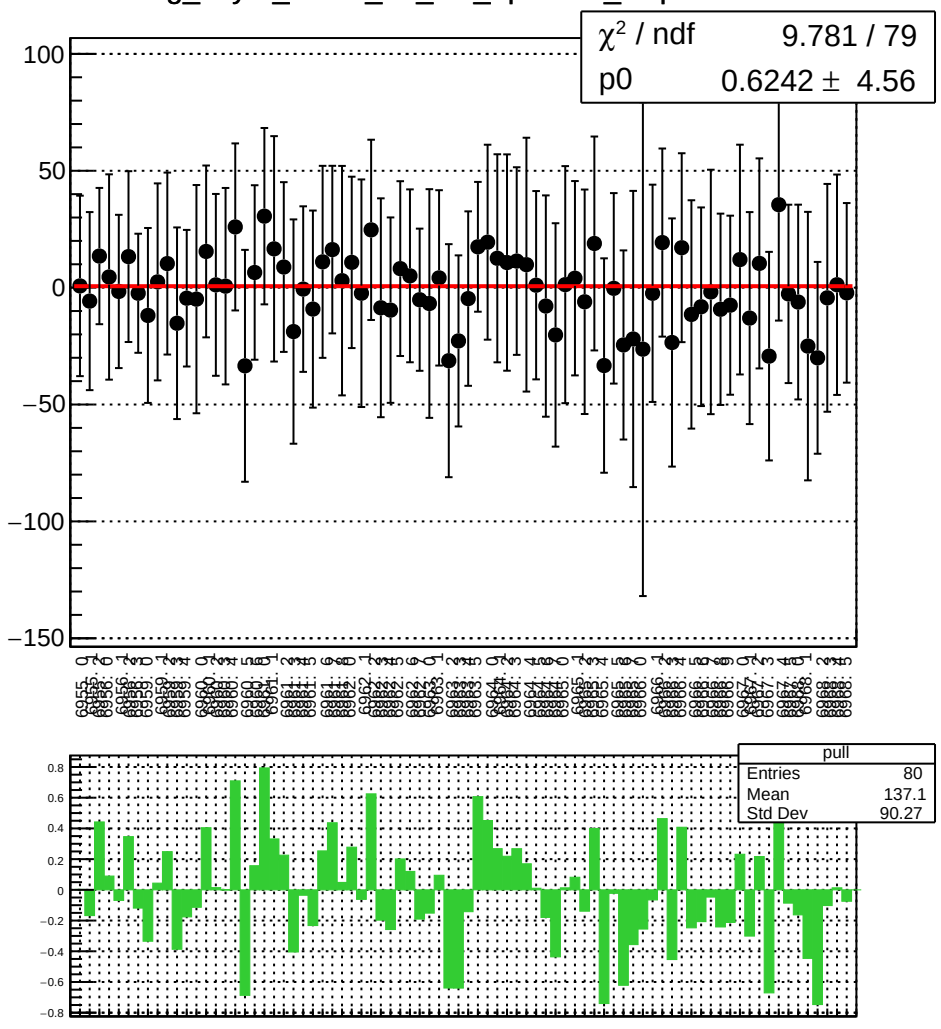
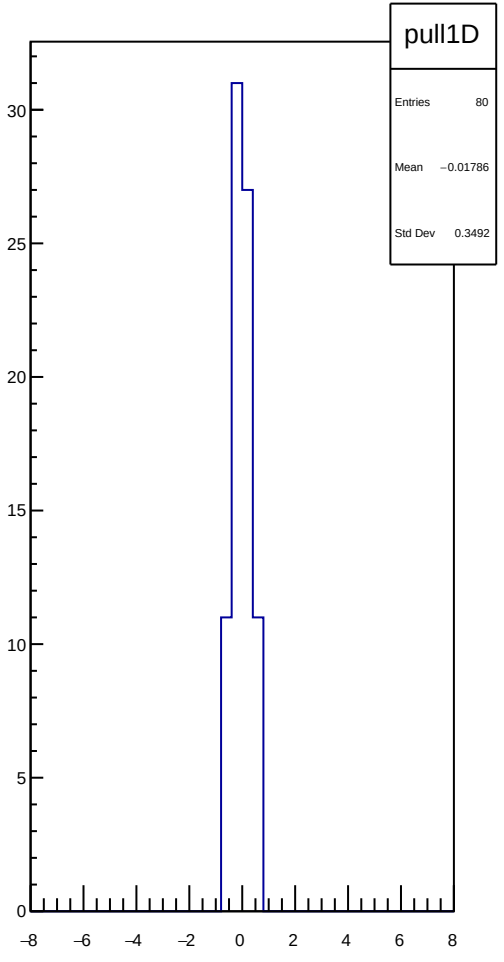
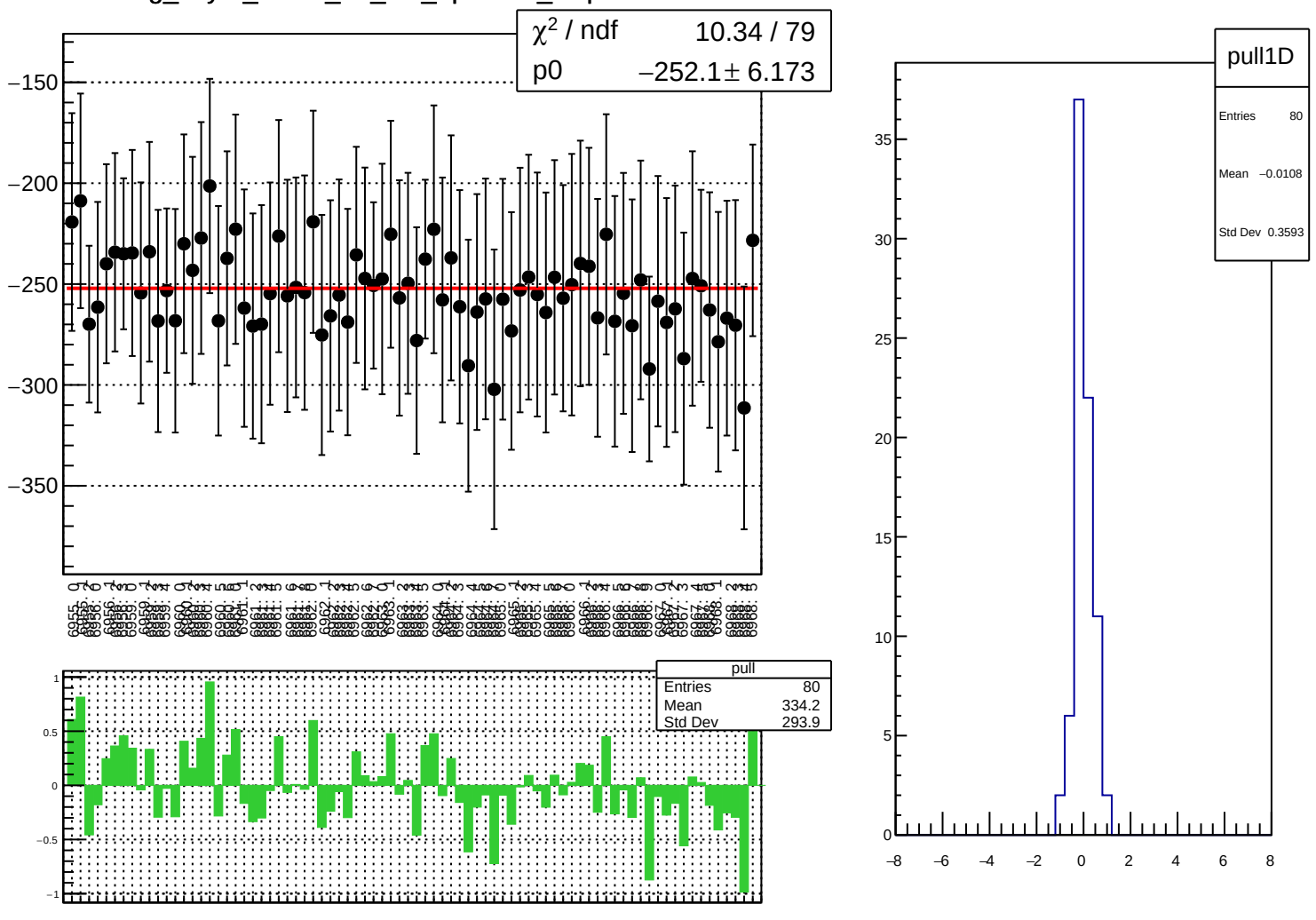
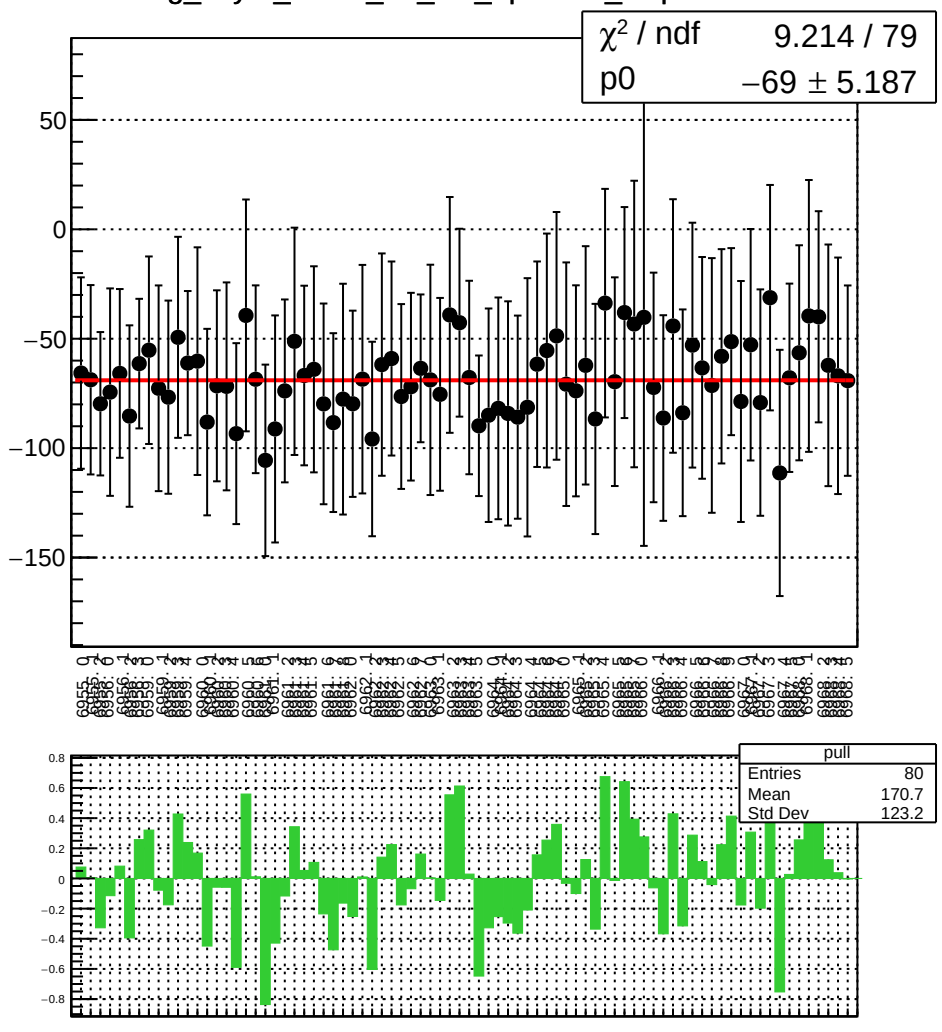
0
2
4
6
8

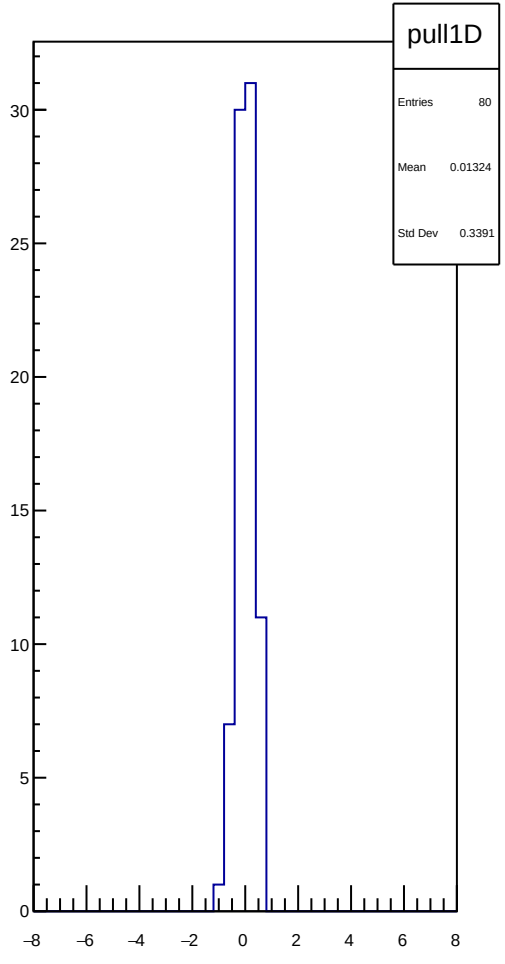

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 10.25 / 79
p0 233.2 ± 6.664
pull
Entries 80
Mean 310.2
Std Dev 269.9
pull1D
Entries 80
Mean 0.01055
Std Dev 0.3579


reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.781 / 79
p0 0.6242 ± 4.56
pull
Entries 80
Mean 137.1
Std Dev 90.27


pull1D
Entries 80
Mean −0.01786
Std Dev 0.3492


reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.34 / 79
p0 −252.1± 6.173
−150
−200
−250
−300
−350
pull
Entries 80
Mean 334.2
Std Dev 293.9
1
0.5
0
−0.5
−1
pull1D
Entries 80
Mean −0.0108
Std Dev 0.3593
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.214 / 79
p0 −69 ± 5.187
50
0
−50
−100
−150
pull
Entries 80
Mean 170.7
Std Dev 123.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8


pull1D
Entries 80
Mean 0.01324
Std Dev 0.3391
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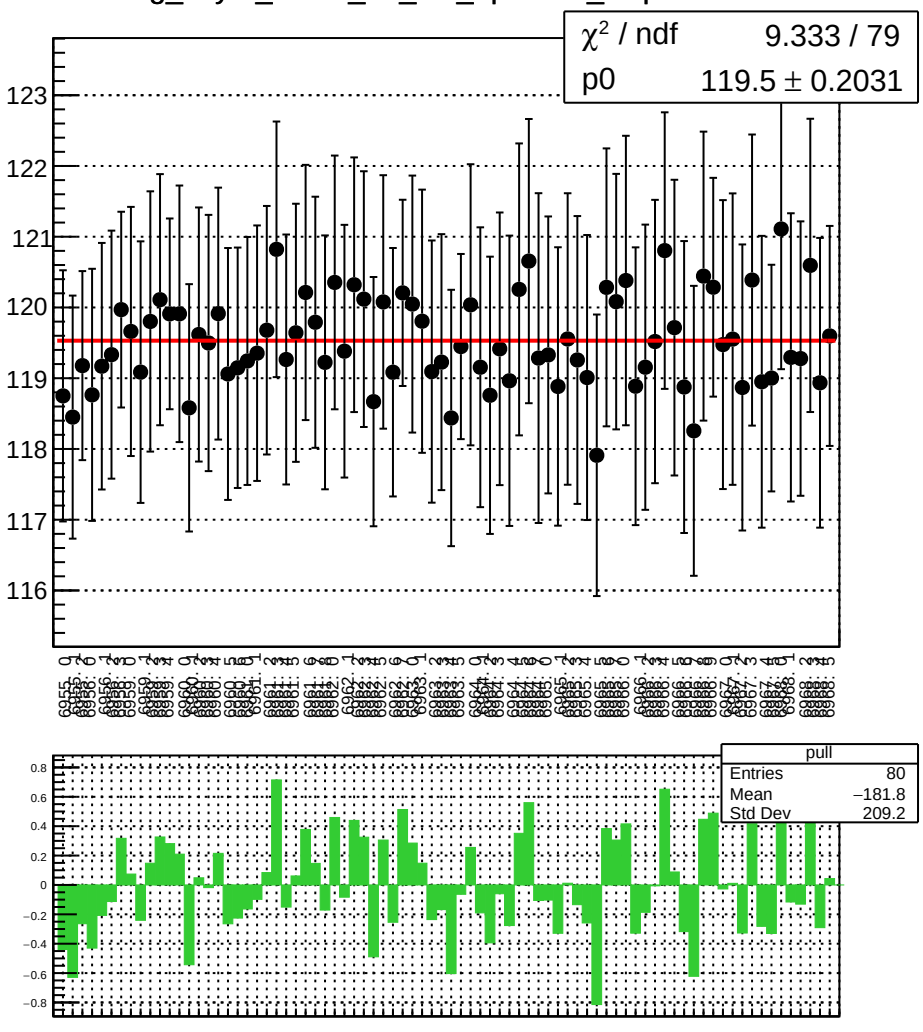
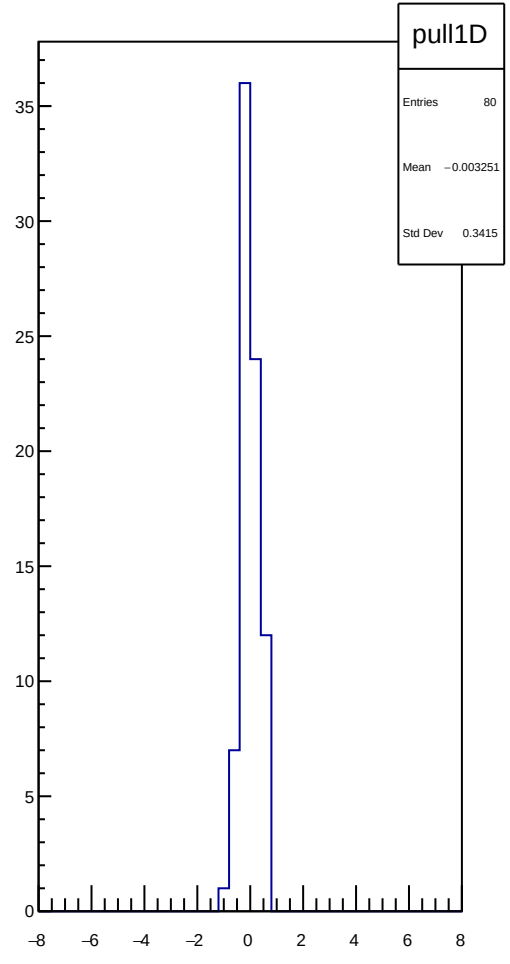
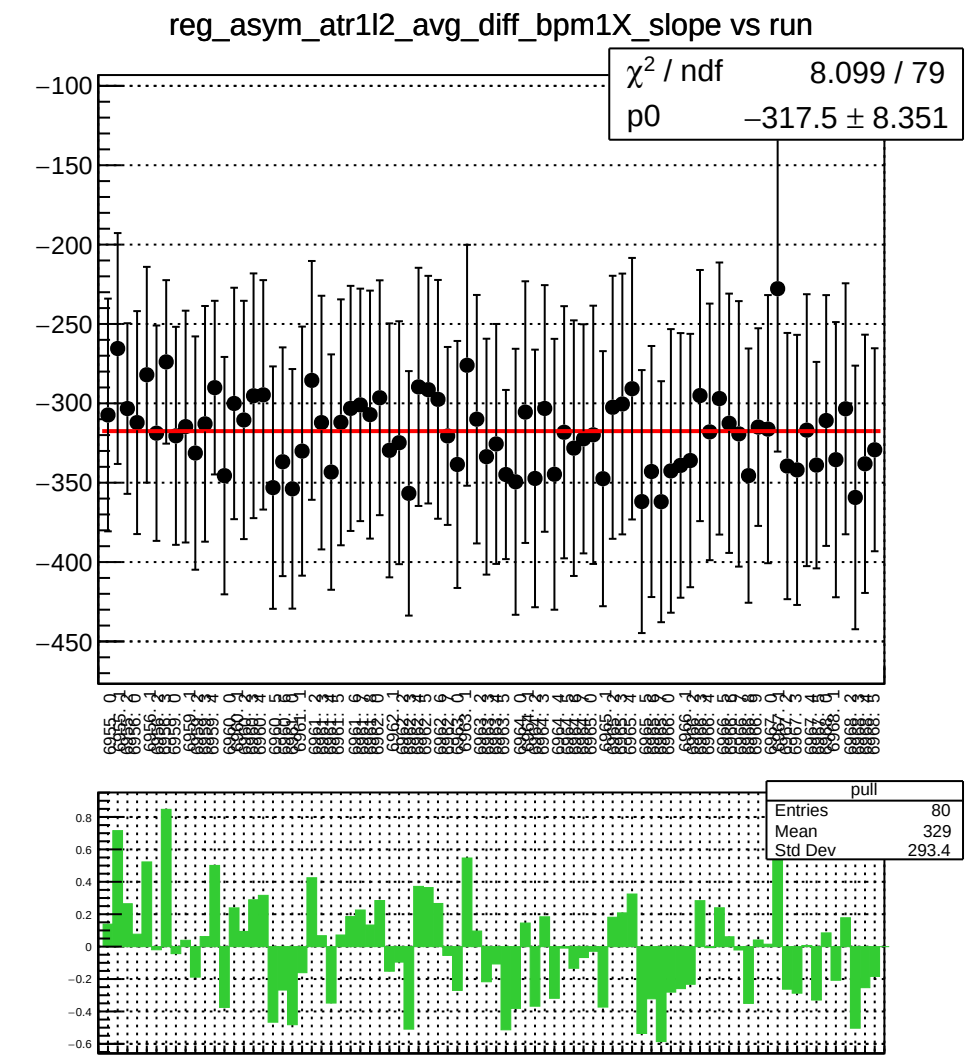
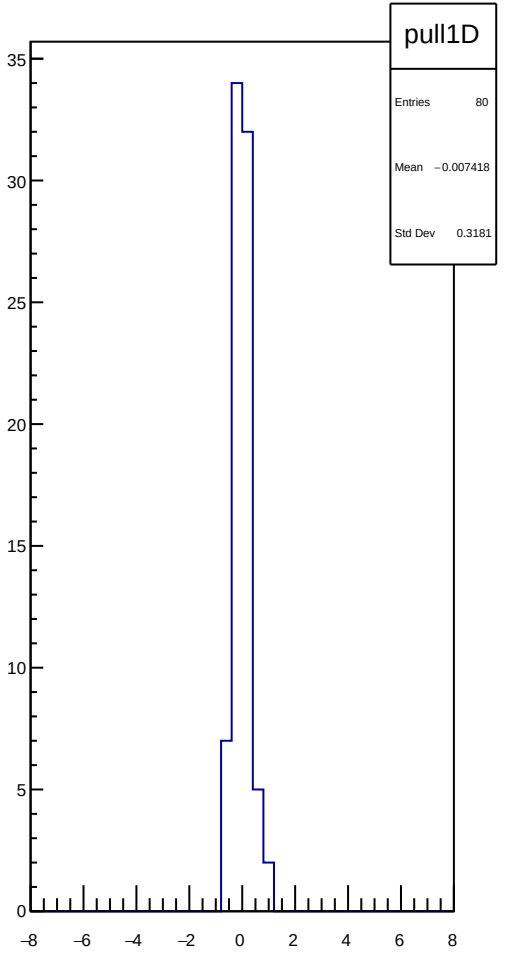
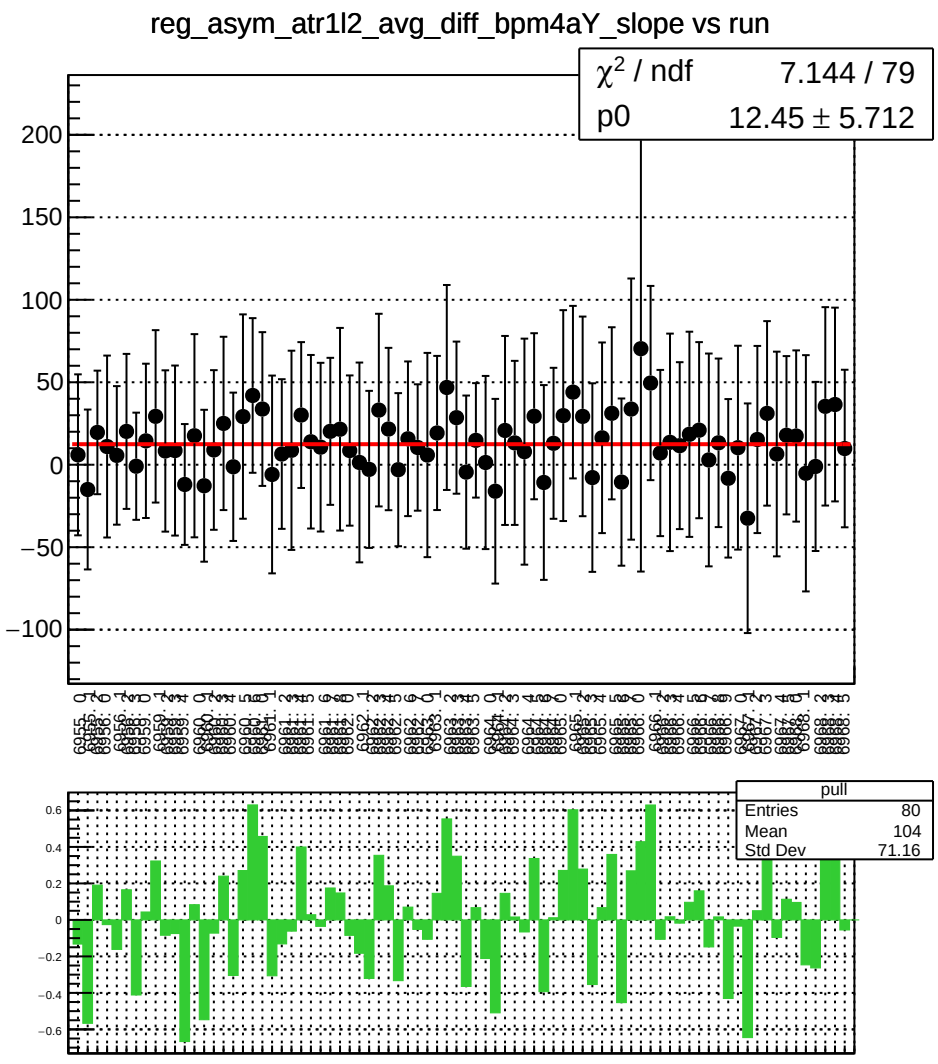
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

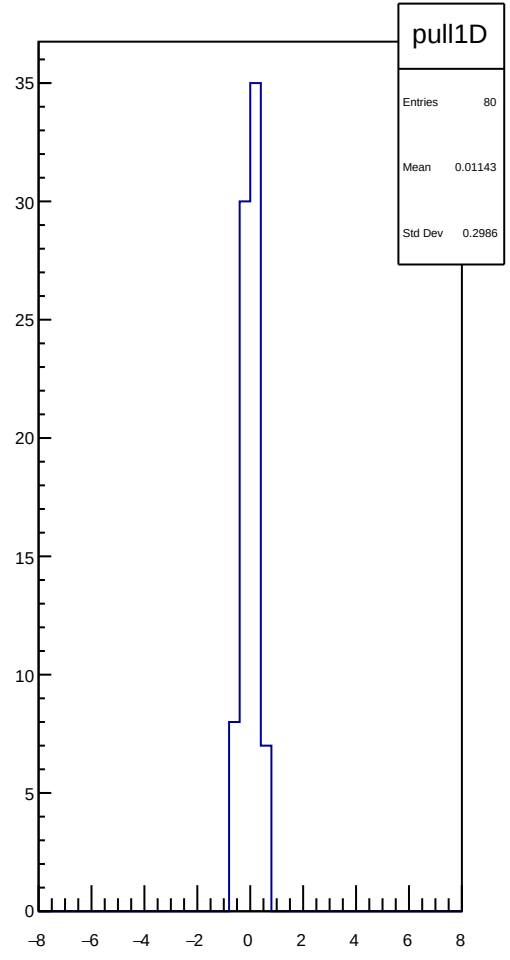

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ^2 / ndf 9.333 / 79
p0 119.5 ± 0.2031
pull
Entries 80
Mean −181.8
Std Dev 209.2

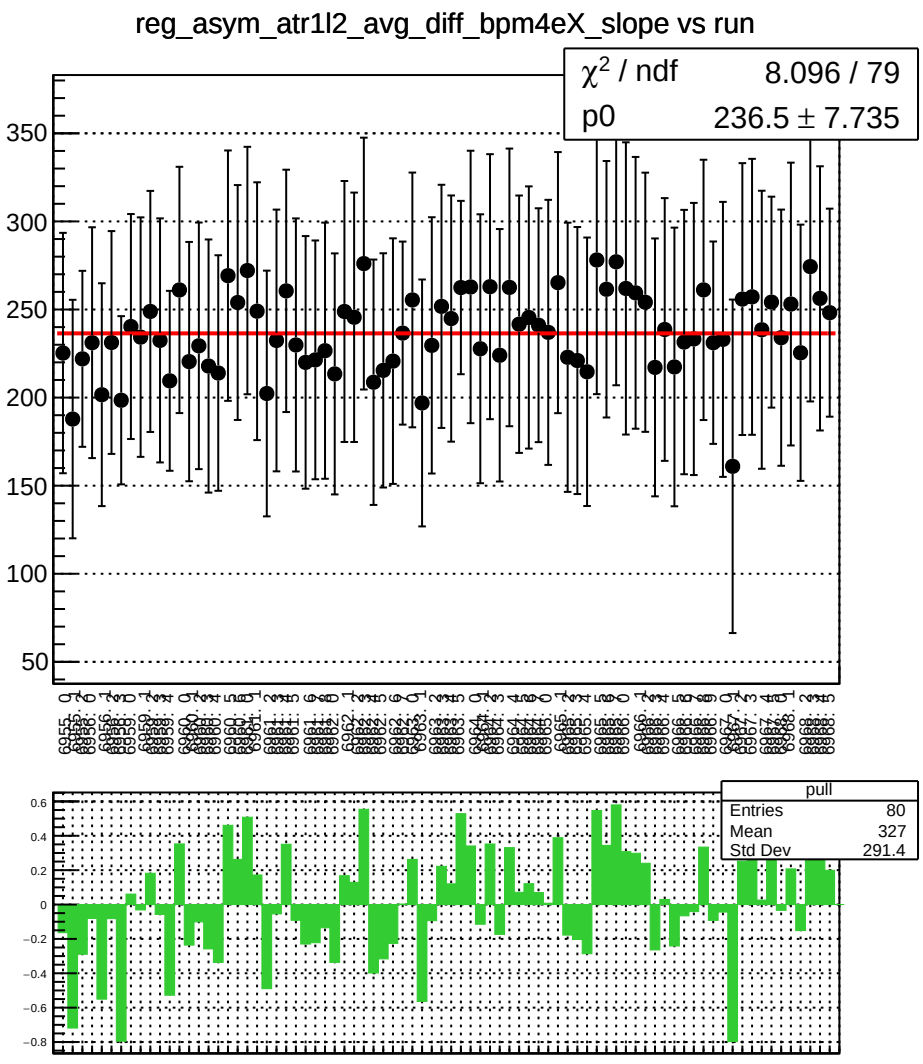

pull1D
Entries 80
Mean −0.003251
Std Dev 0.3415

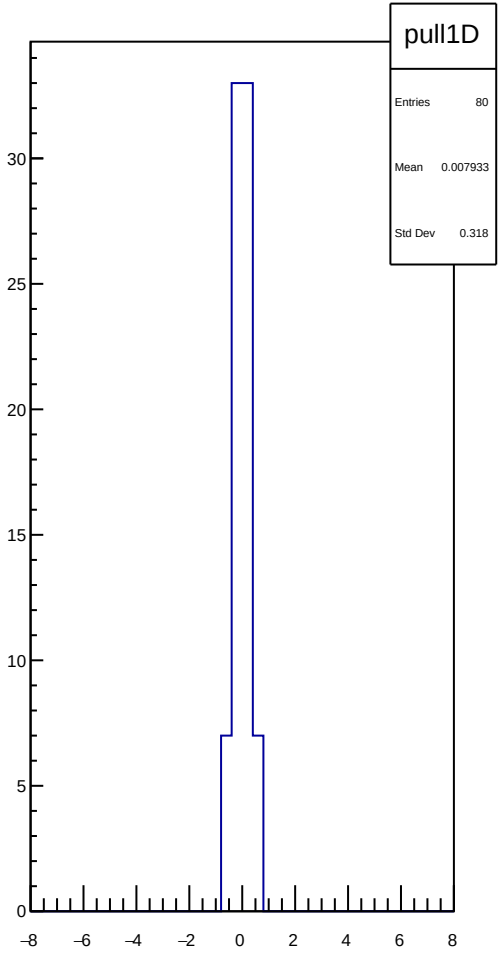

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 8.099 / 79
p0 −317.5 ± 8.351
pull
Entries 80
Mean 329
Std Dev 293.4

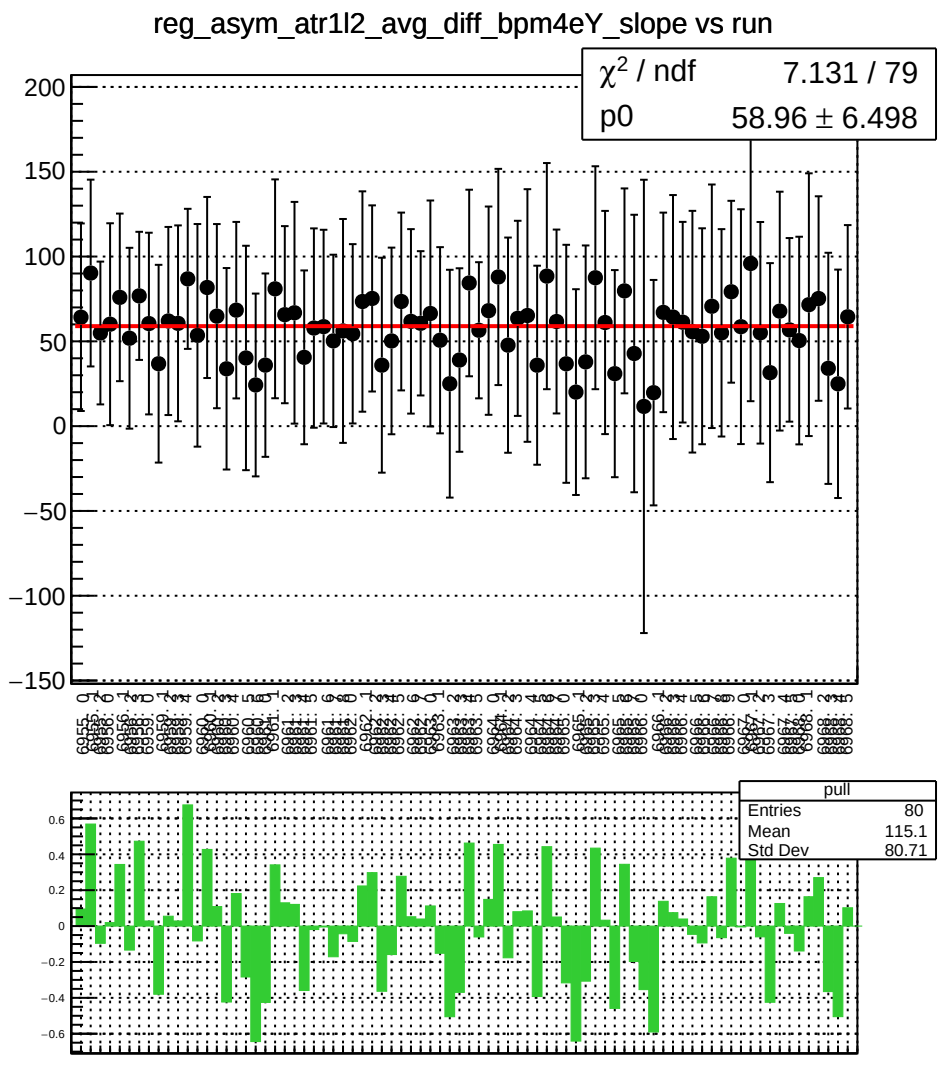

pull1D
Entries 80
Mean −0.007418
Std Dev 0.3181

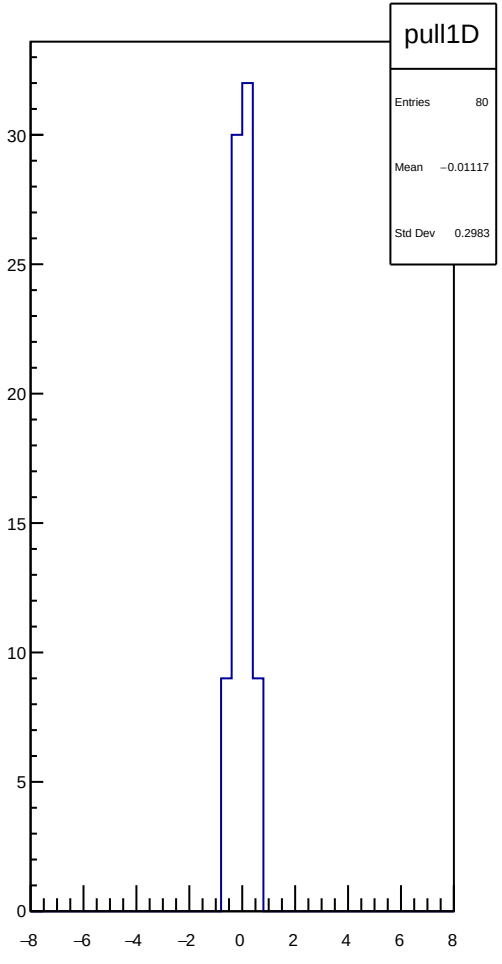

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.144 / 79
p0 12.45 ± 5.712
pull
Entries 80
Mean 104
Std Dev 71.16

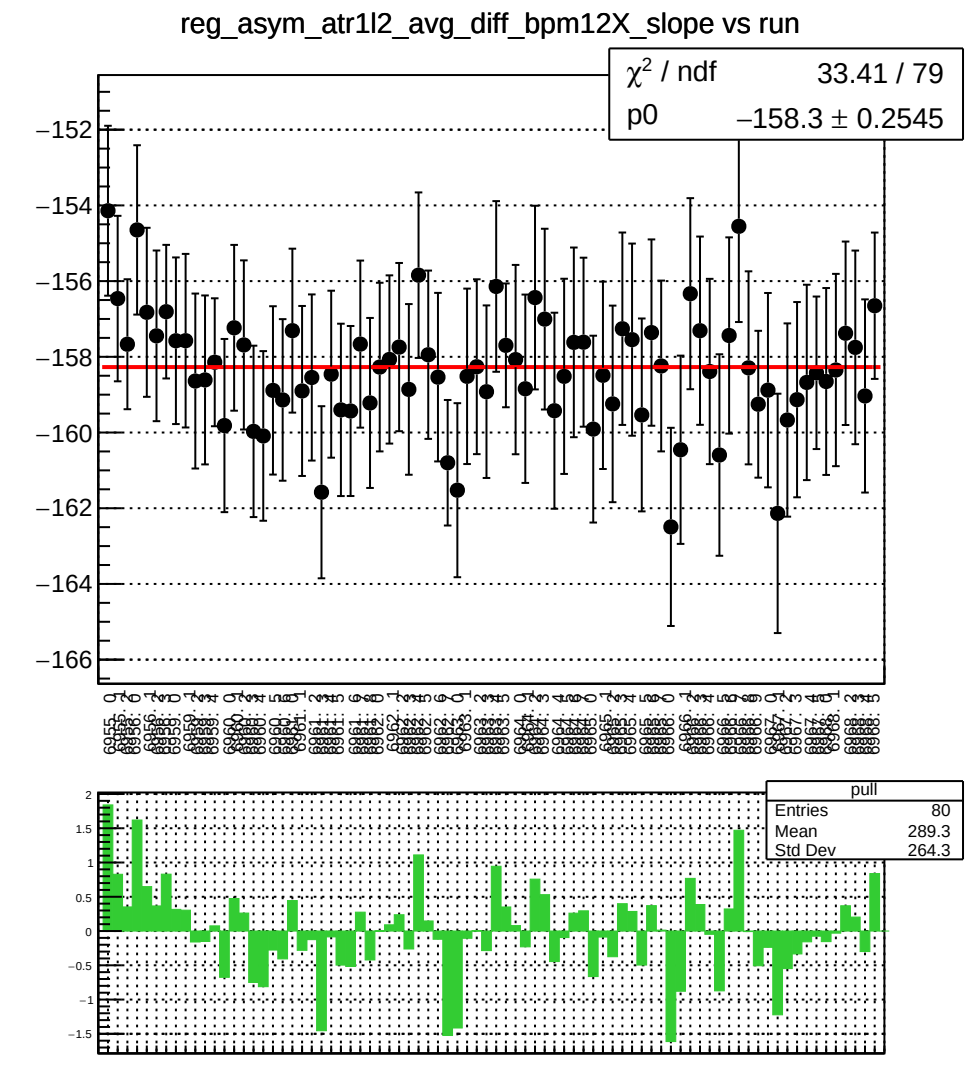

pull1D
Entries 80
Mean 0.01143
Std Dev 0.2986

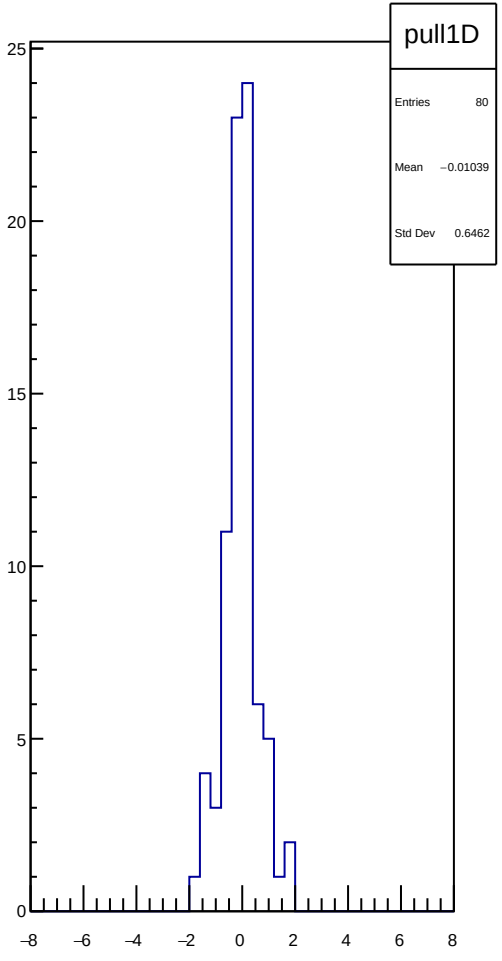

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.096 / 79
p0 236.5 ± 7.735
pull
Entries 80
Mean 327
Std Dev 291.4

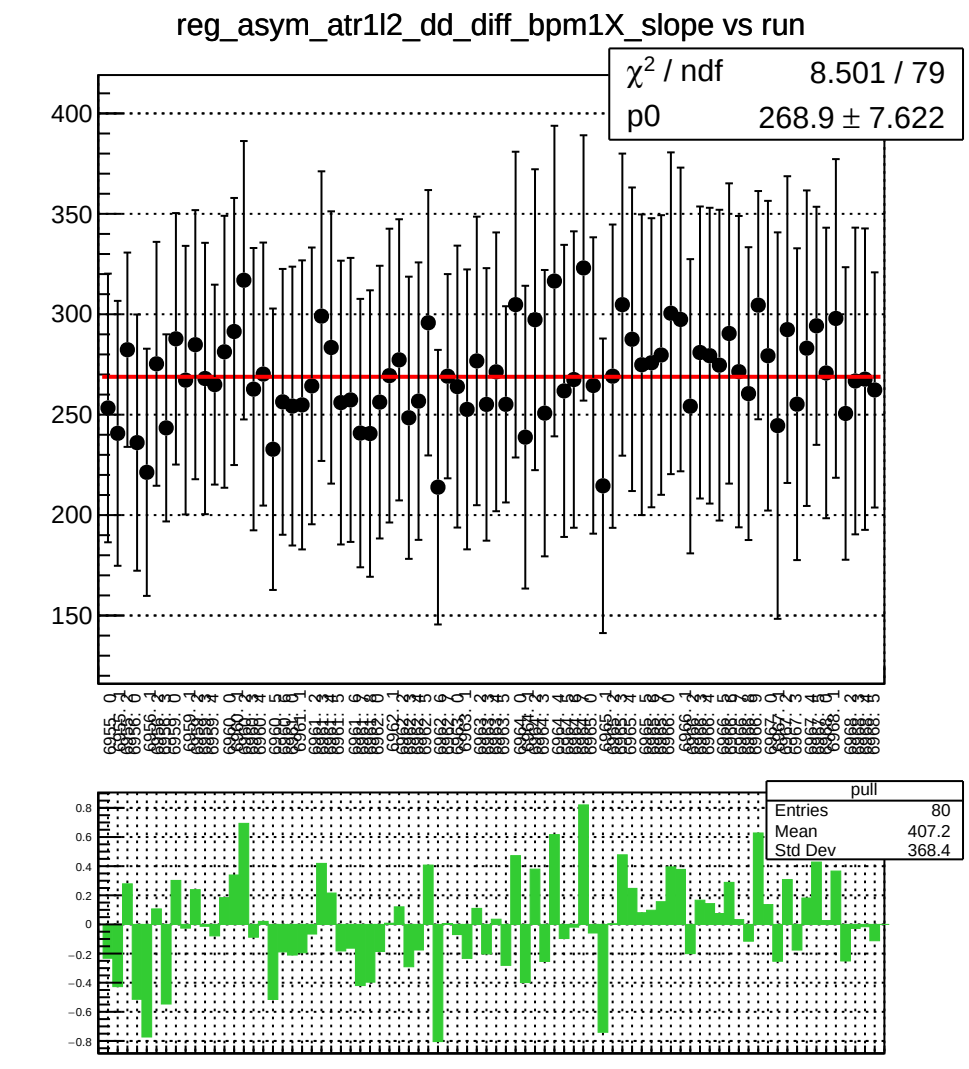

pull1D
Entries 80
Mean 0.007933
Std Dev 0.318

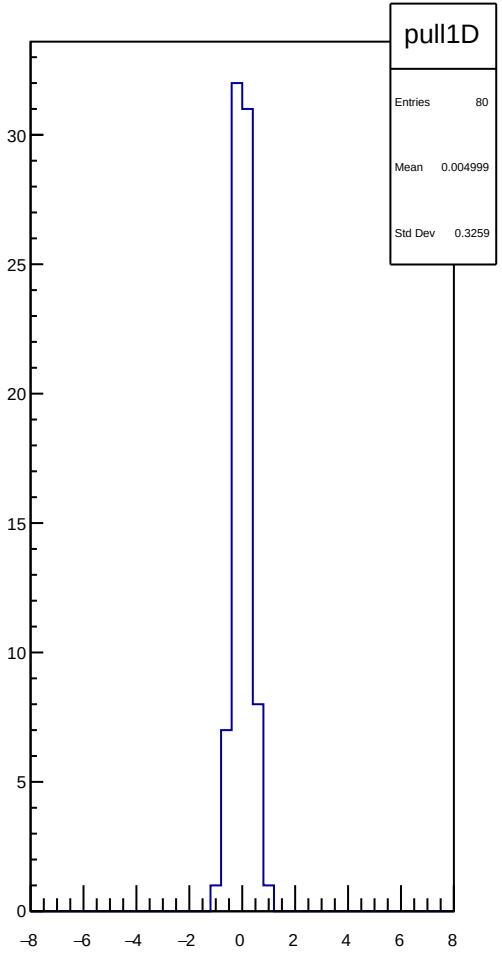

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.131 / 79
p0 58.96 ± 6.498
pull
Entries 80
Mean 115.1
Std Dev 80.71

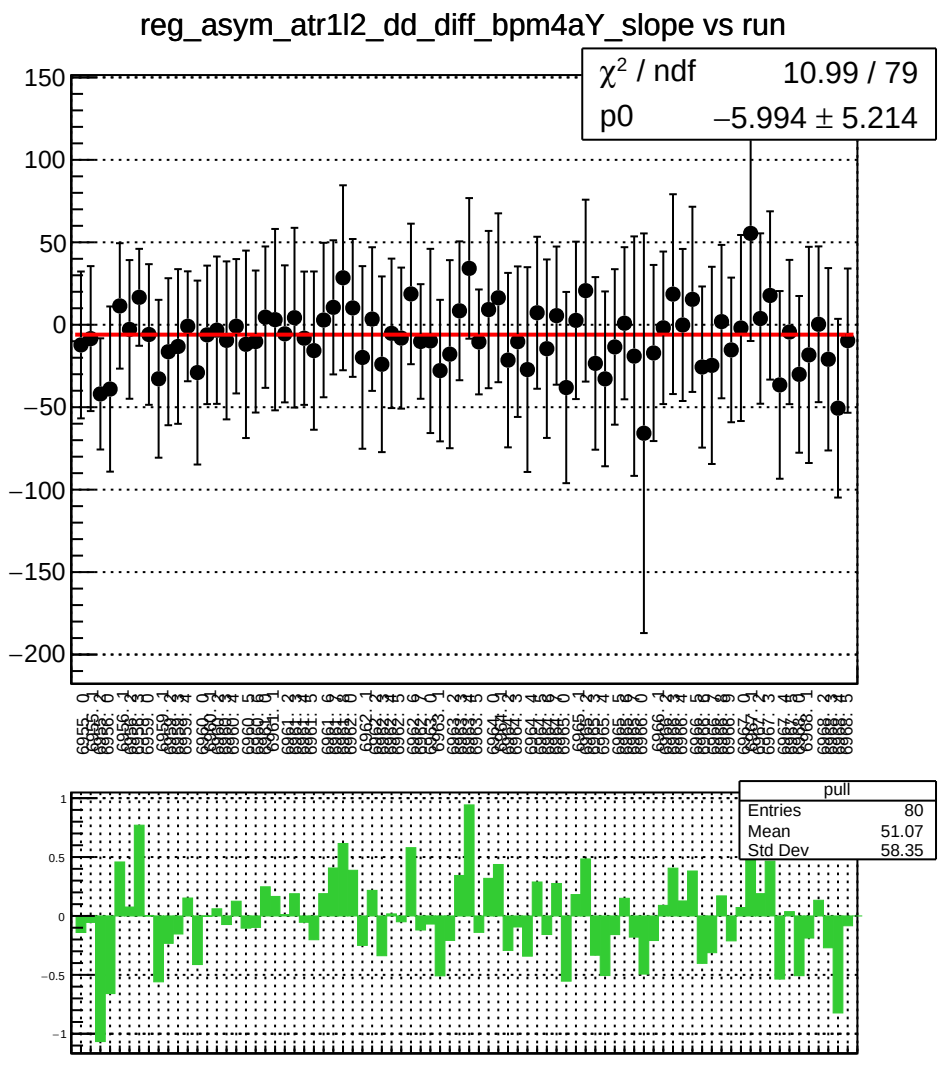

pull1D
Entries 80
Mean −0.01117
Std Dev 0.2983

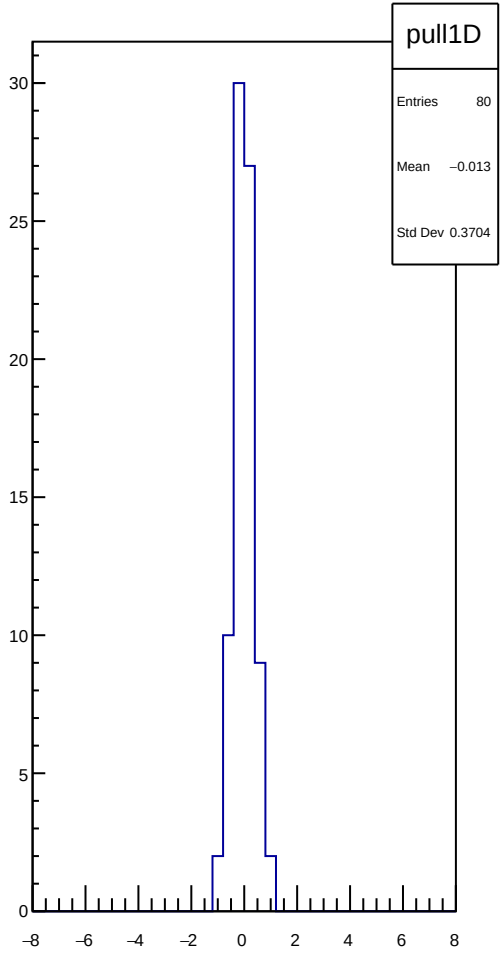

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 33.41 / 79
p0 −158.3 ± 0.2545
pull
Entries 80
Mean 289.3
Std Dev 264.3

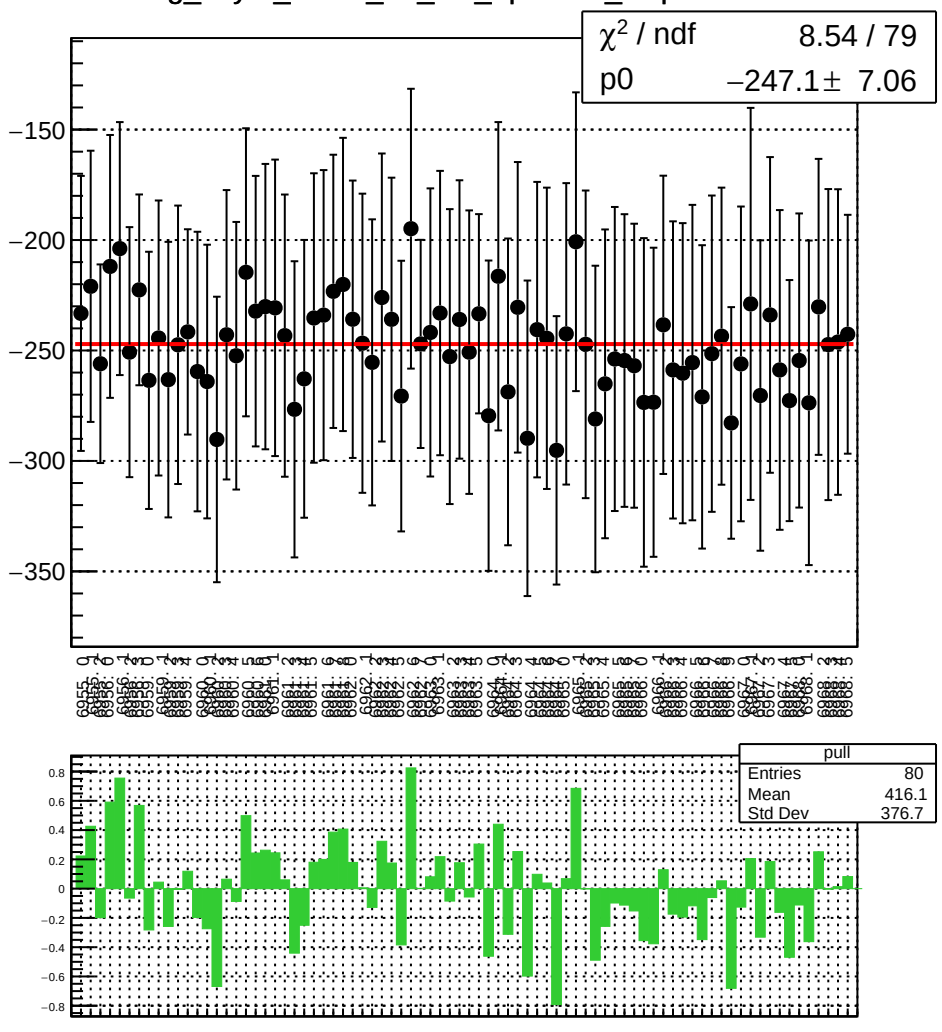

pull1D
Entries 80
Mean −0.01039
Std Dev 0.6462

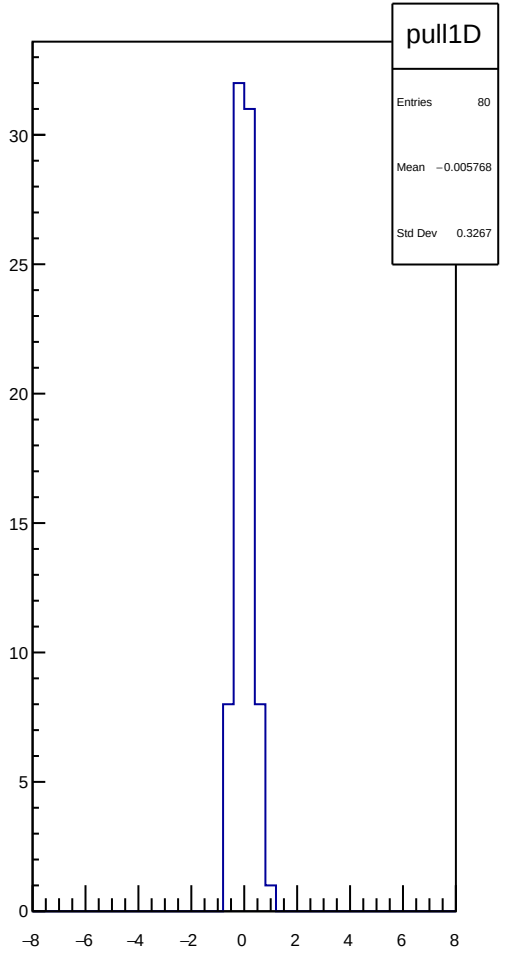

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 8.501 / 79
p0 268.9 ± 7.622
pull
Entries 80
Mean 407.2
Std Dev 368.4

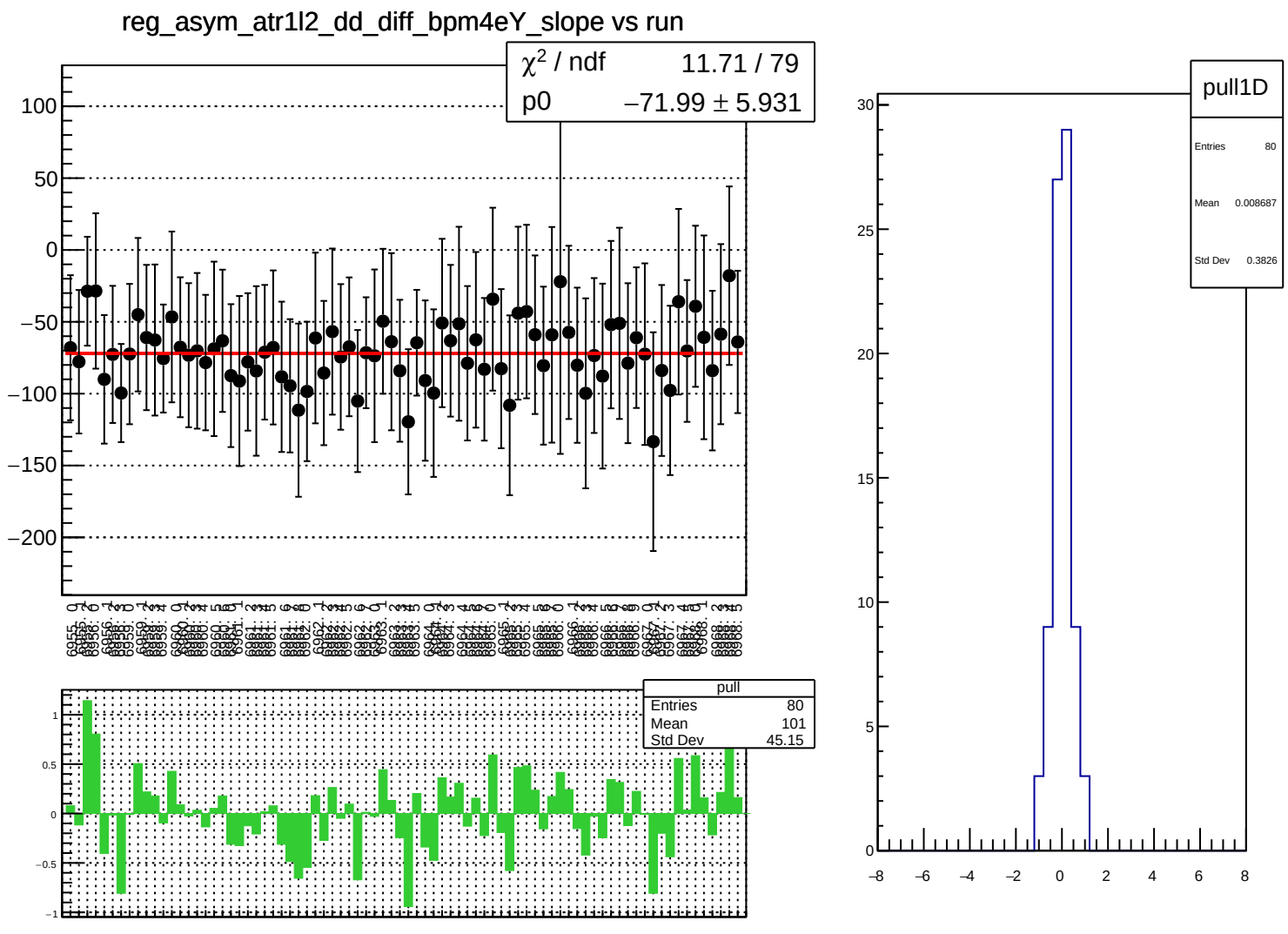

pull1D
Entries 80
Mean 0.004999
Std Dev 0.3259

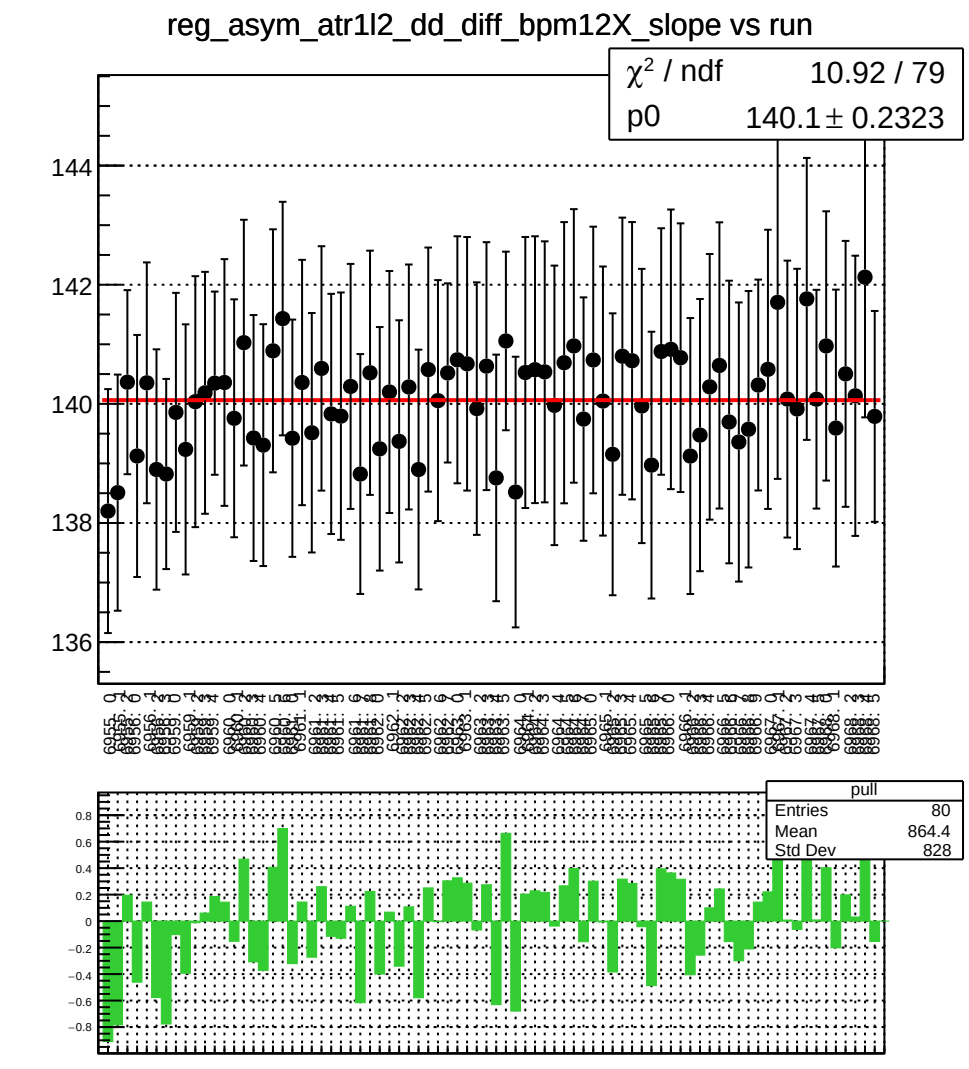

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.99 / 79
p0 −5.994 ± 5.214
150
100
50
0
−50
−100
−150
−200
pull
Entries 80
Mean 51.07
Std Dev 58.35
1
0.5
0
−0.5
−1

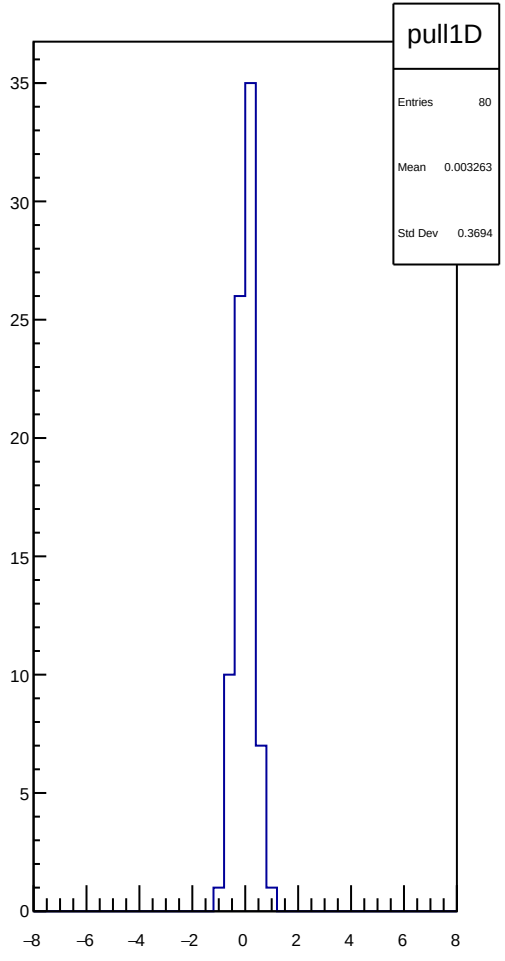

pull1D
Entries 80
Mean −0.013
Std Dev 0.3704
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

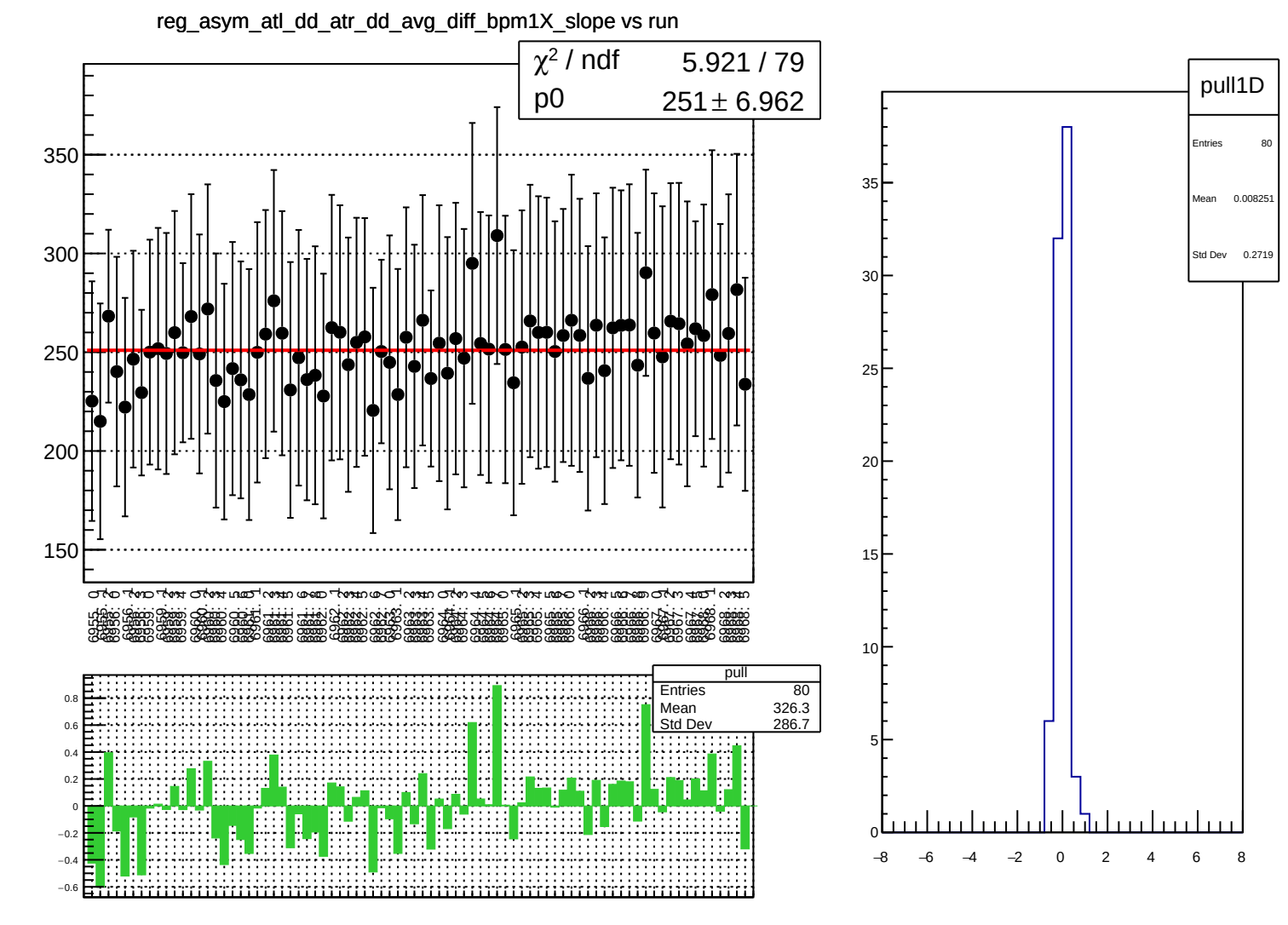

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.54 / 79
p0 −247.1± 7.06
−150
−200
−250
−300
−350
pull
Entries 80
Mean 416.1
Std Dev 376.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

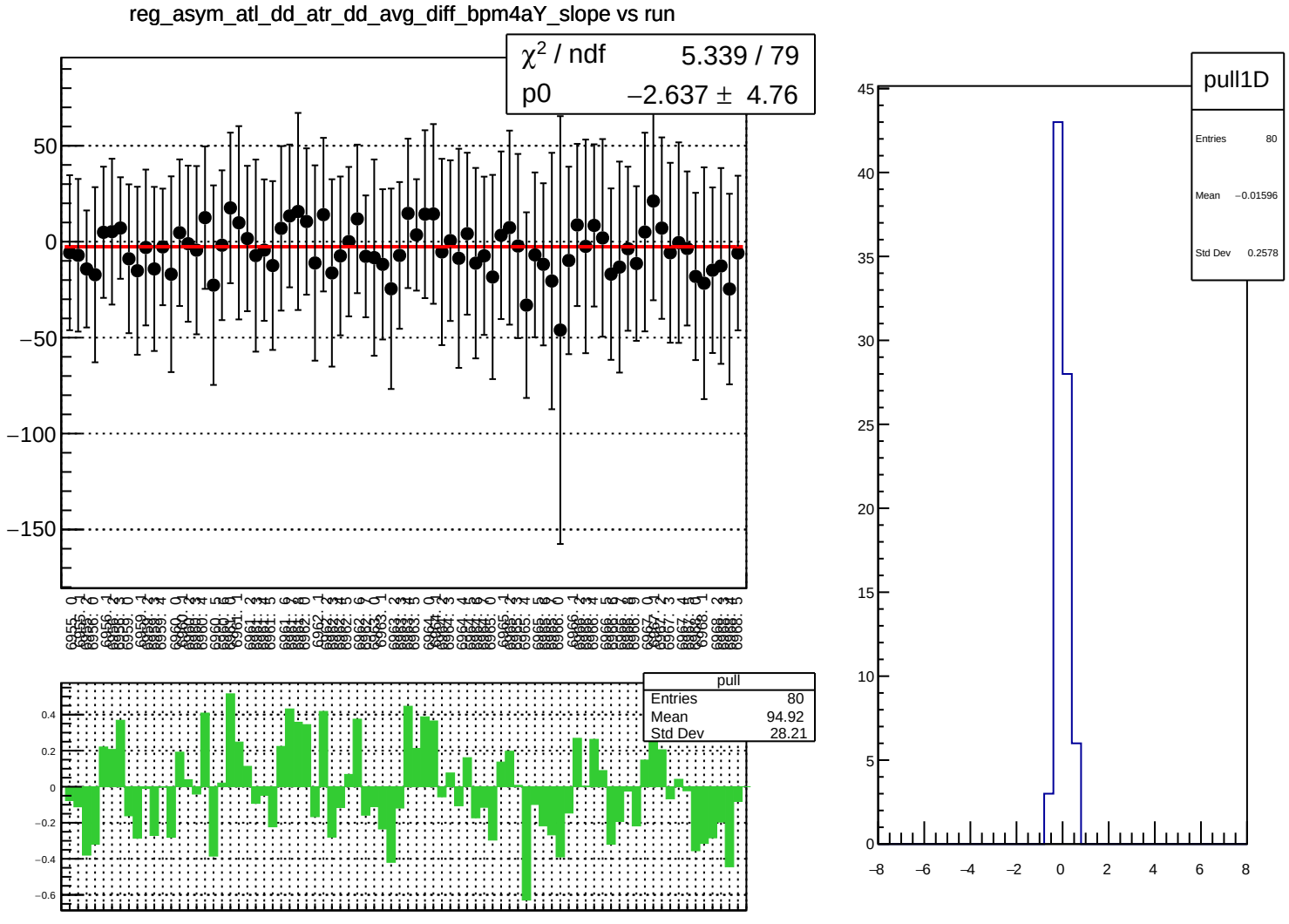

pull1D
Entries 80
Mean −0.005768
Std Dev 0.3267
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

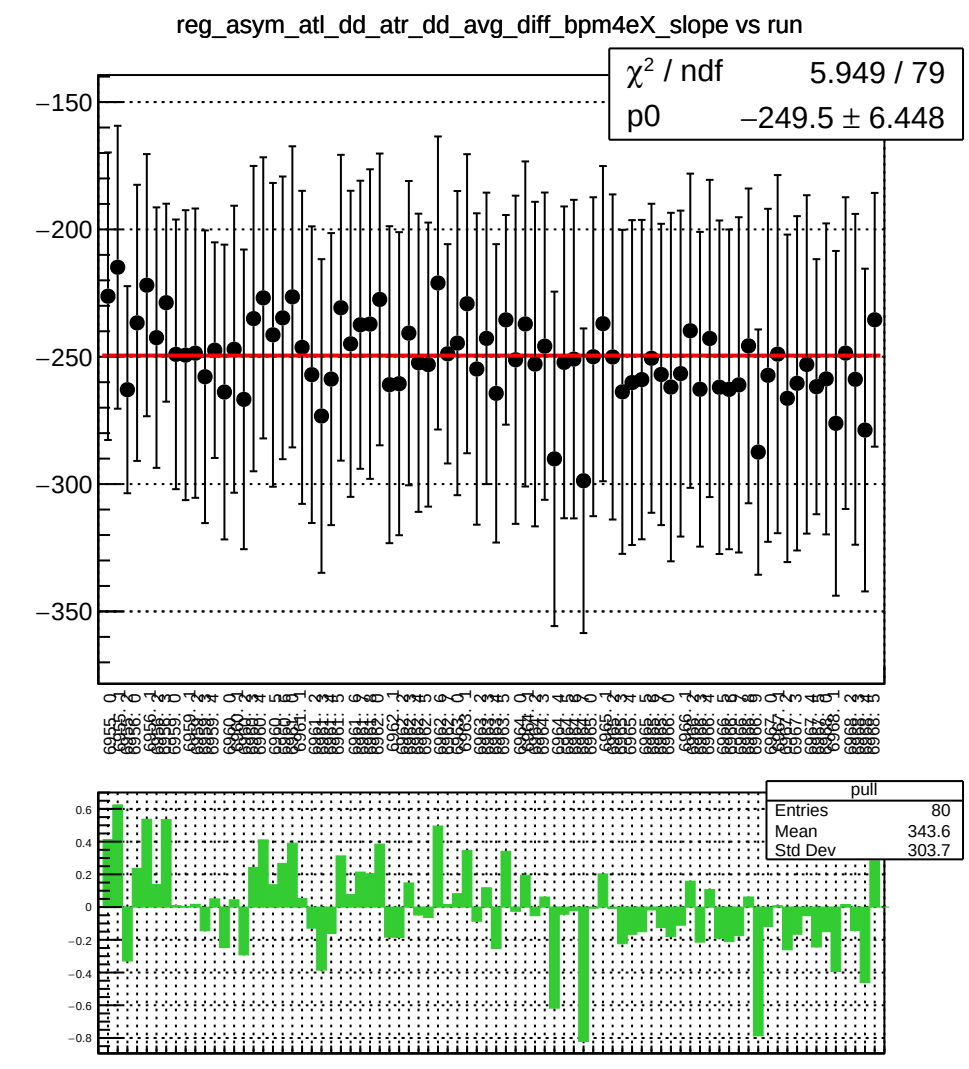

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.71 / 79
p0 −71.99 ± 5.931
pull
Entries 80
Mean 101
Std Dev 45.15
pull1D
Entries 80
Mean 0.008687
Std Dev 0.3826

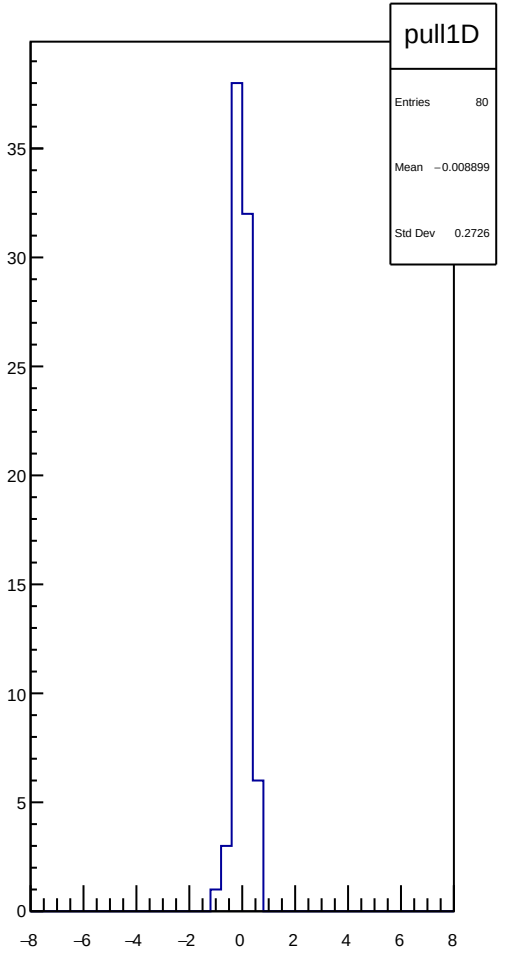

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 10.92 / 79
p0 140.1 ± 0.2323
144
142
140
138
136
pull
Entries 80
Mean 864.4
Std Dev 828
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

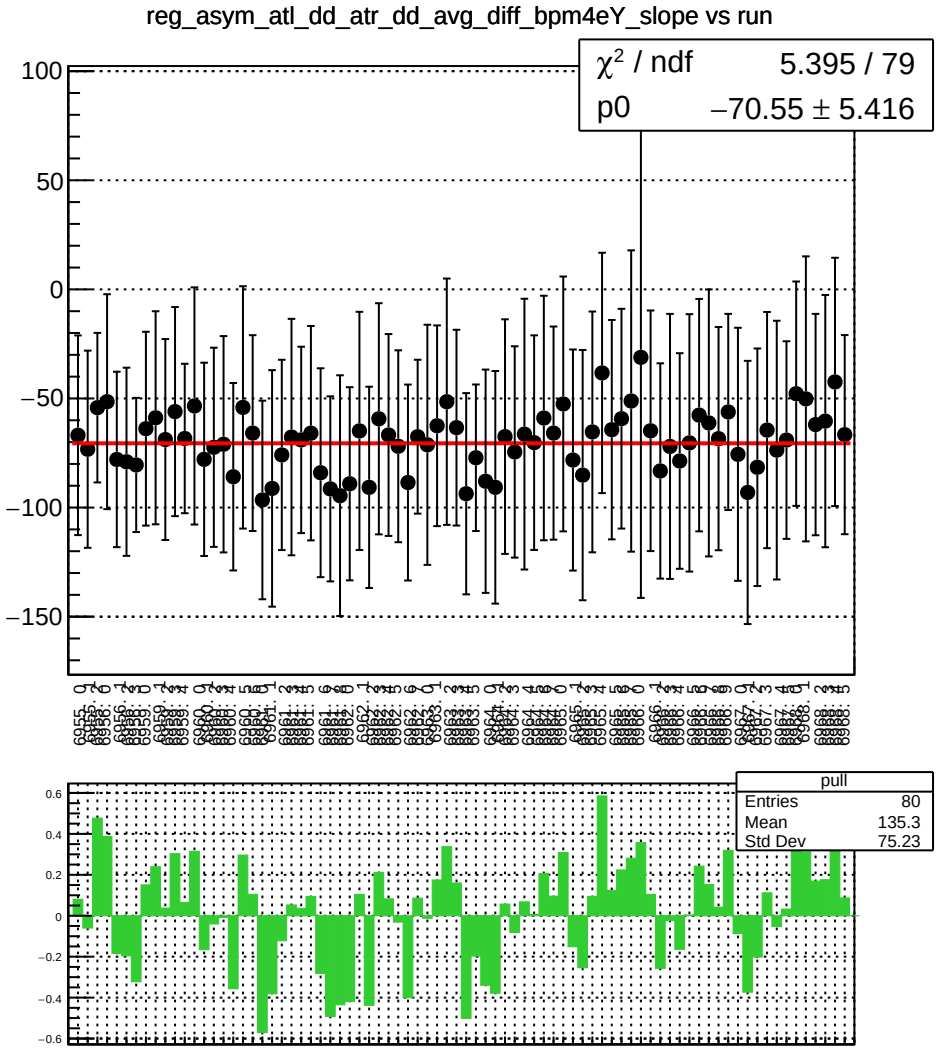

pull1D
Entries 80
Mean 0.003263
Std Dev 0.3694
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

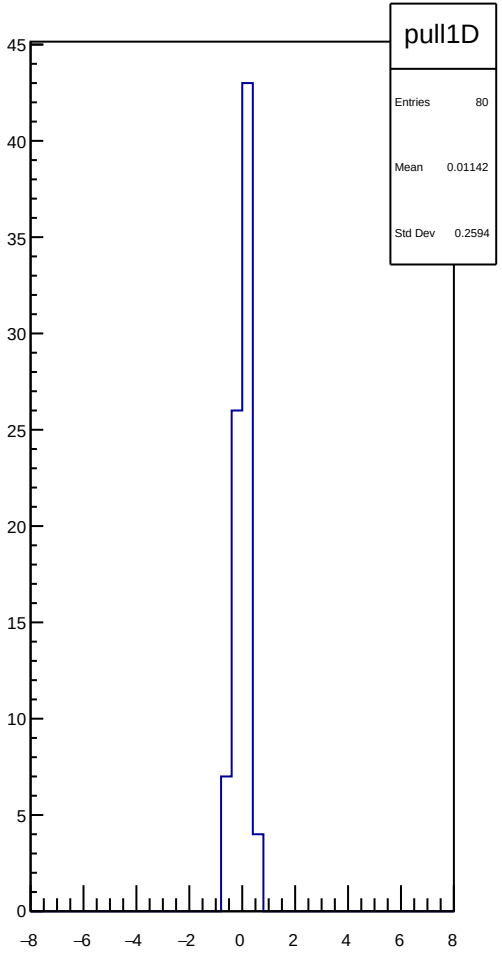

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 5.921 / 79
p0 251 ± 6.962
pull
Entries 80
Mean 326.3
Std Dev 286.7
pull1D
Entries 80
Mean 0.008251
Std Dev 0.2719

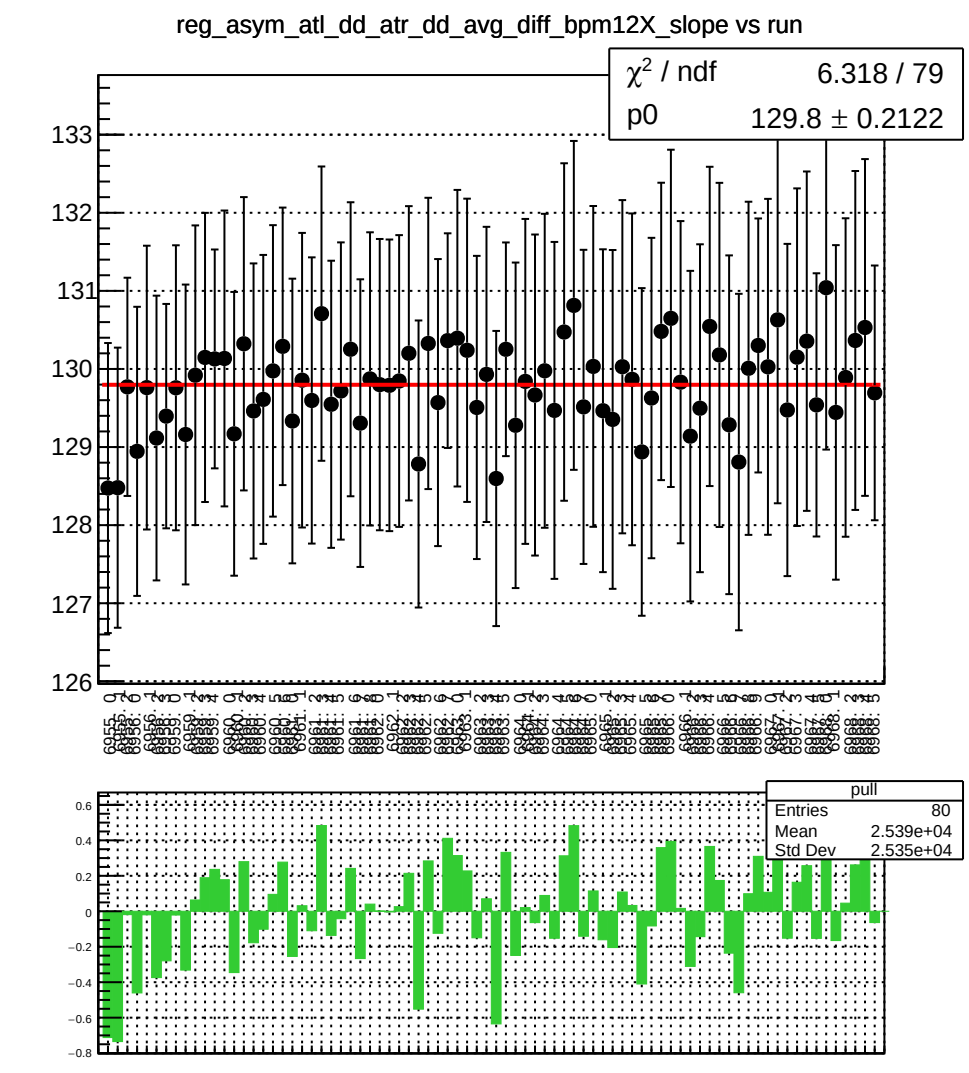

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.339 / 79
p0 −2.637 ± 4.76
50
0
−50
−100
−150
pull
Entries 80
Mean 94.92
Std Dev 28.21
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 80
Mean −0.01596
Std Dev 0.2578
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

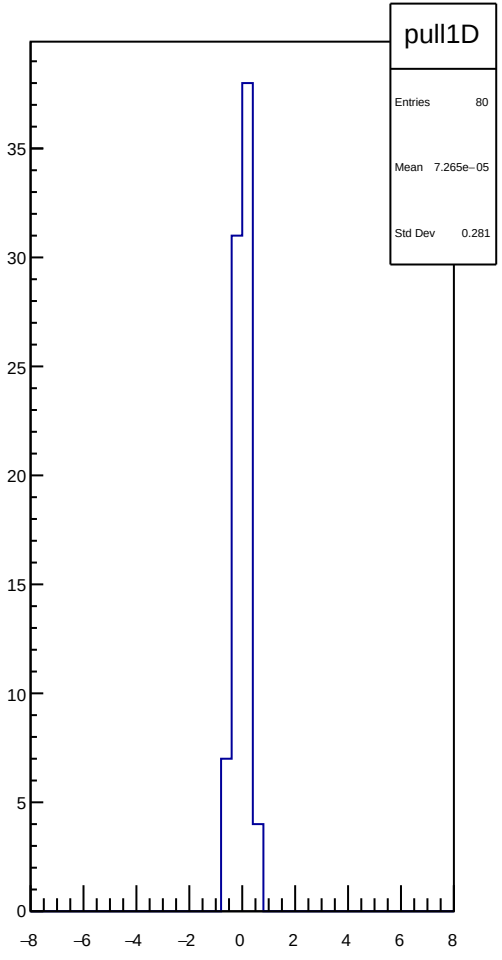

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.949 / 79
p0 −249.5 ± 6.448
−150
−200
−250
−300
−350
pull
Entries 80
Mean 343.6
Std Dev 303.7
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

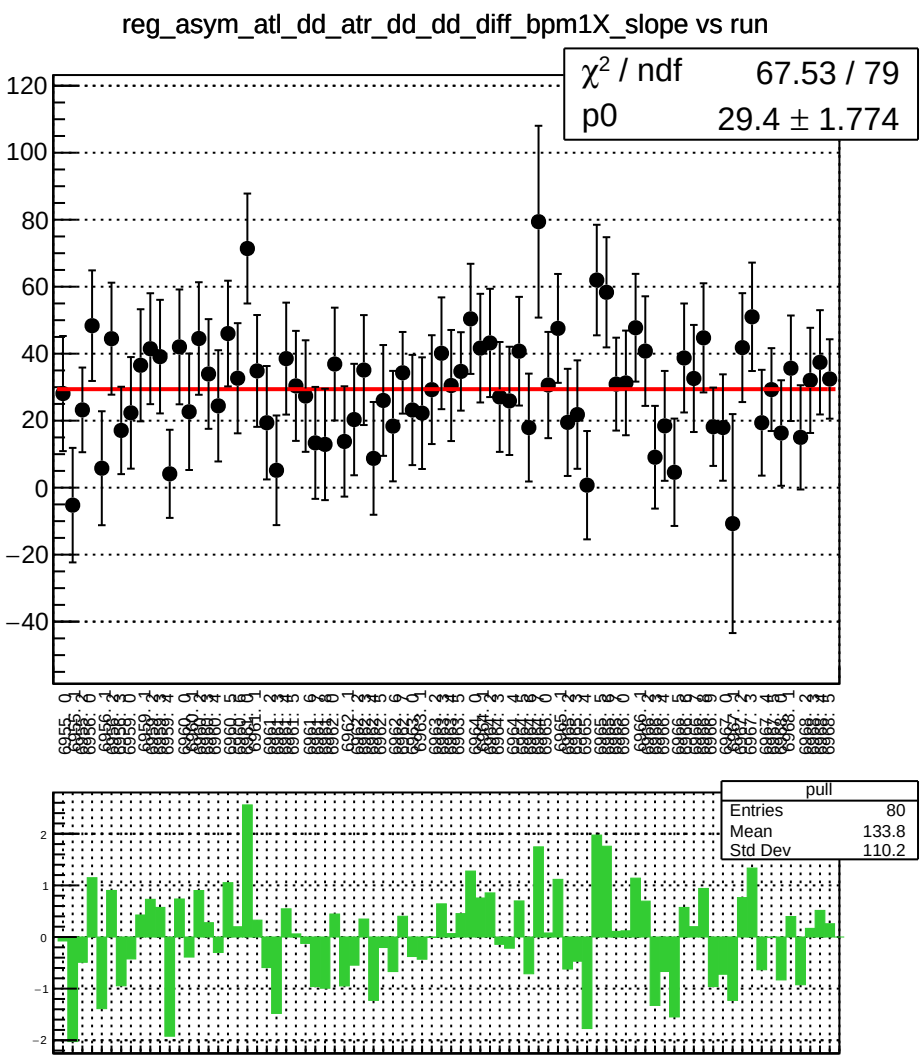

pull1D
Entries 80
Mean −0.008899
Std Dev 0.2726
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

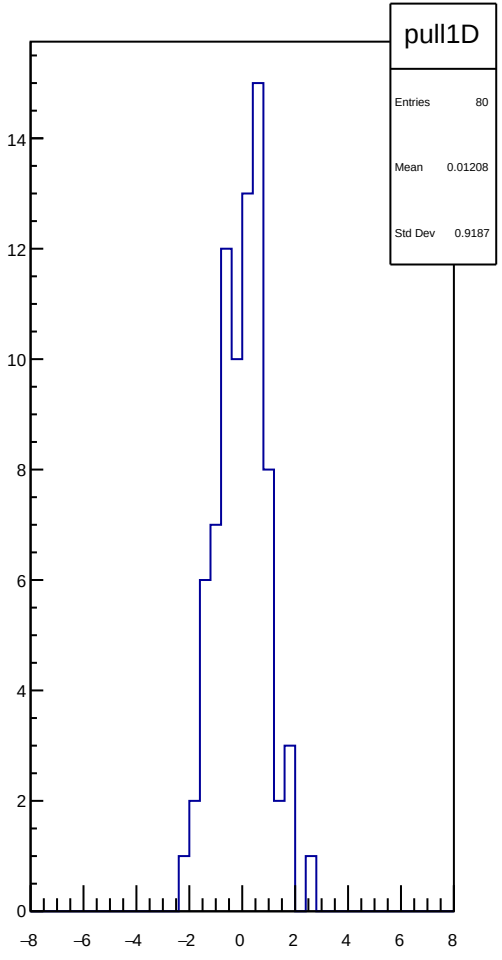

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.395 / 79
p0 −70.55 ± 5.416
pull
Entries 80
Mean 135.3
Std Dev 75.23

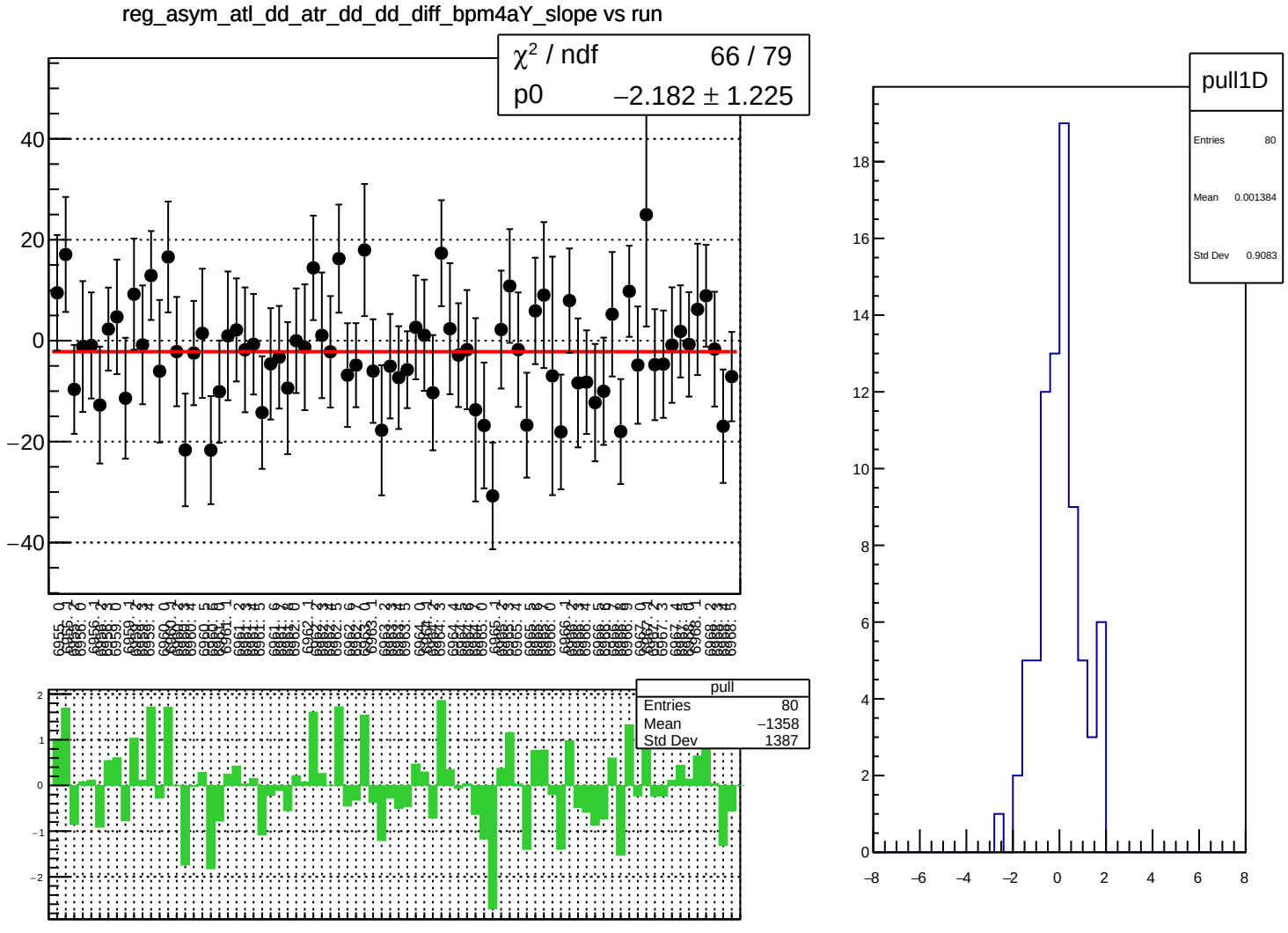

pull1D
Entries 80
Mean 0.01142
Std Dev 0.2594

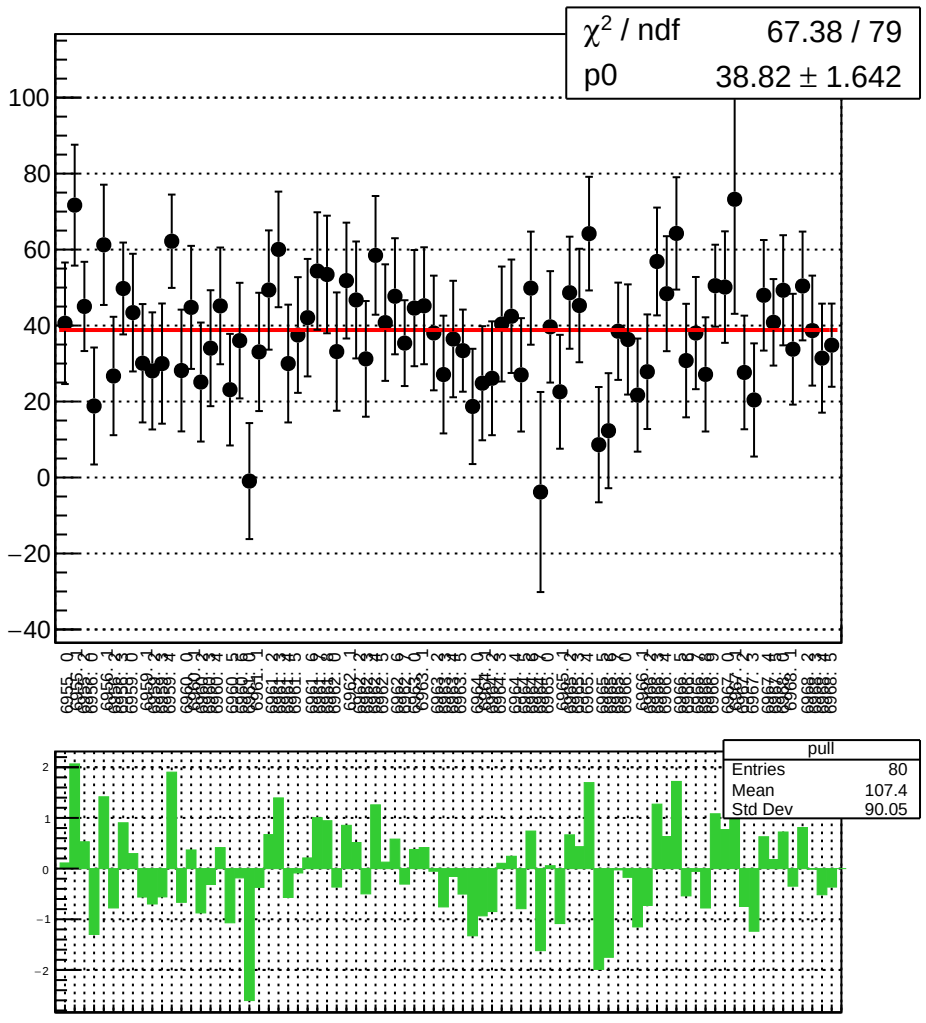

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 6.318 / 79
p0 129.8 ± 0.2122
pull
Entries 80
Mean 2.539e+04
Std Dev 2.535e+04

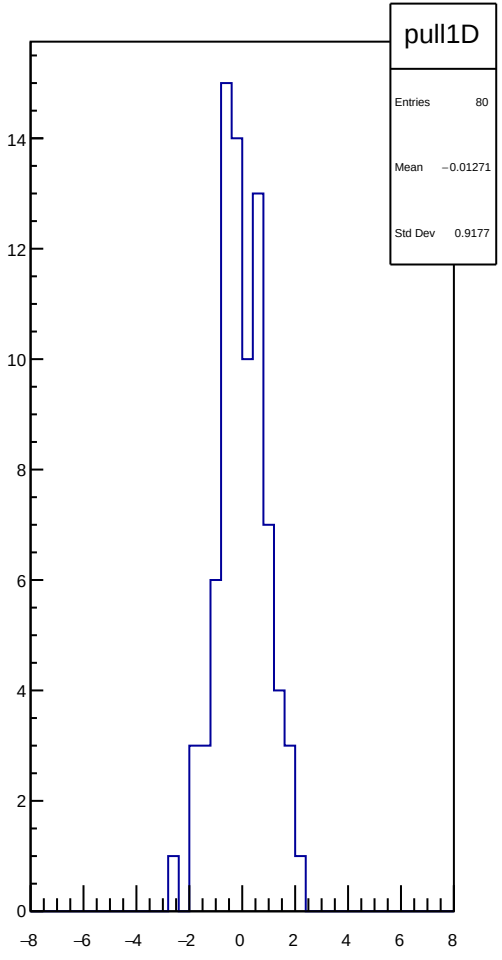

pull1D
Entries 80
Mean 7.265e−05
Std Dev 0.281

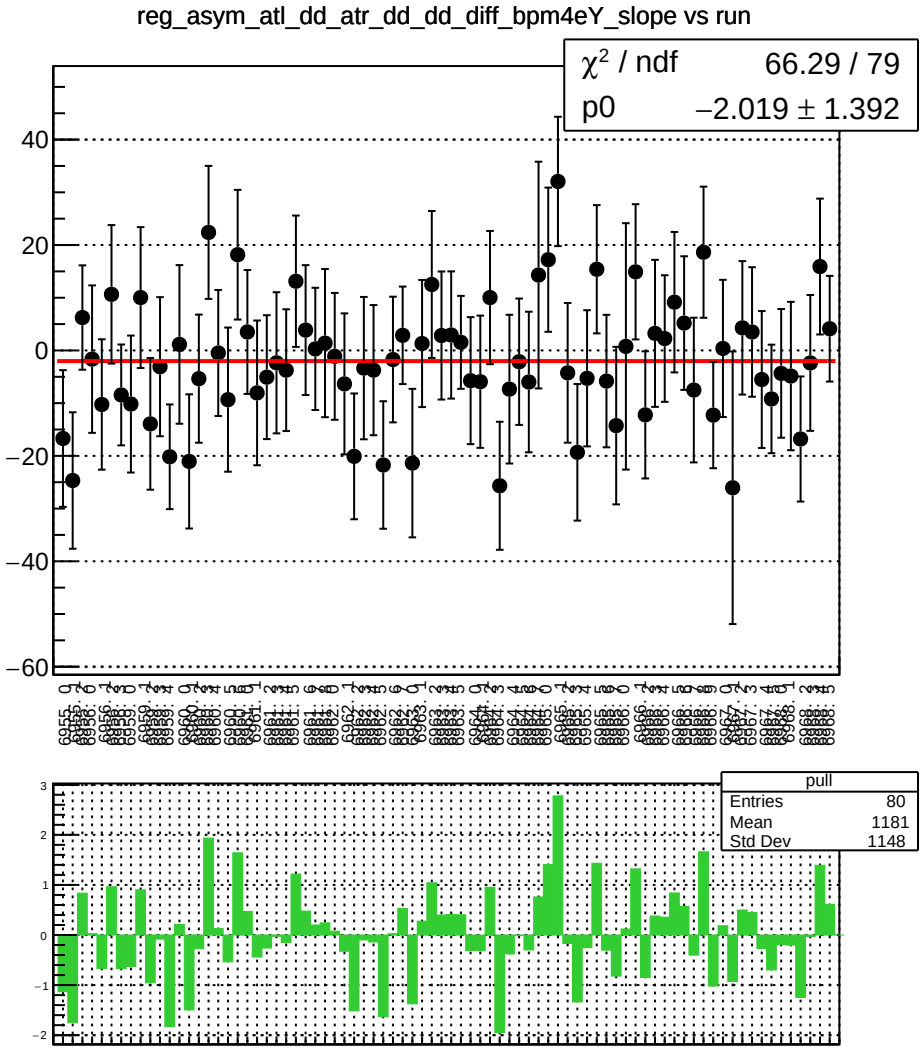

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 67.53 / 79
p0 29.4 ± 1.774
pull
Entries 80
Mean 133.8
Std Dev 110.2

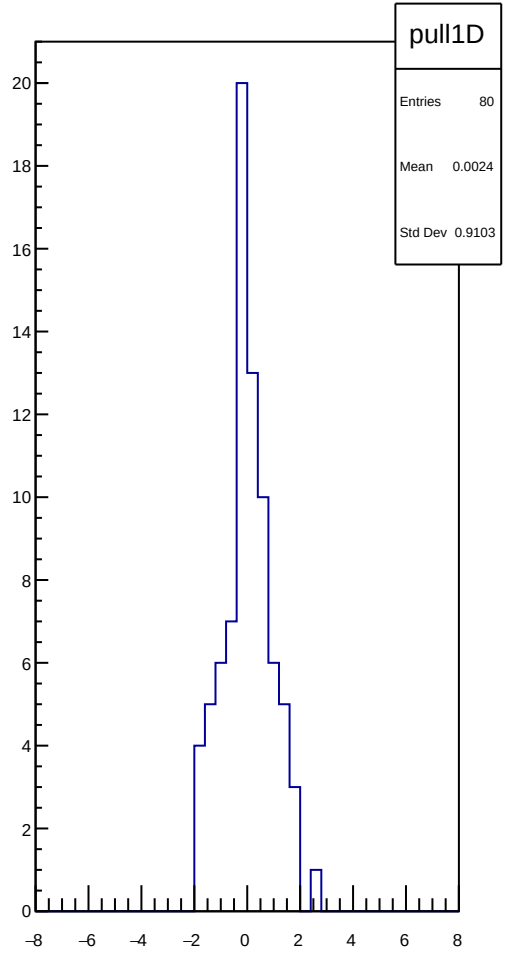

pull1D
Entries 80
Mean 0.01208
Std Dev 0.9187

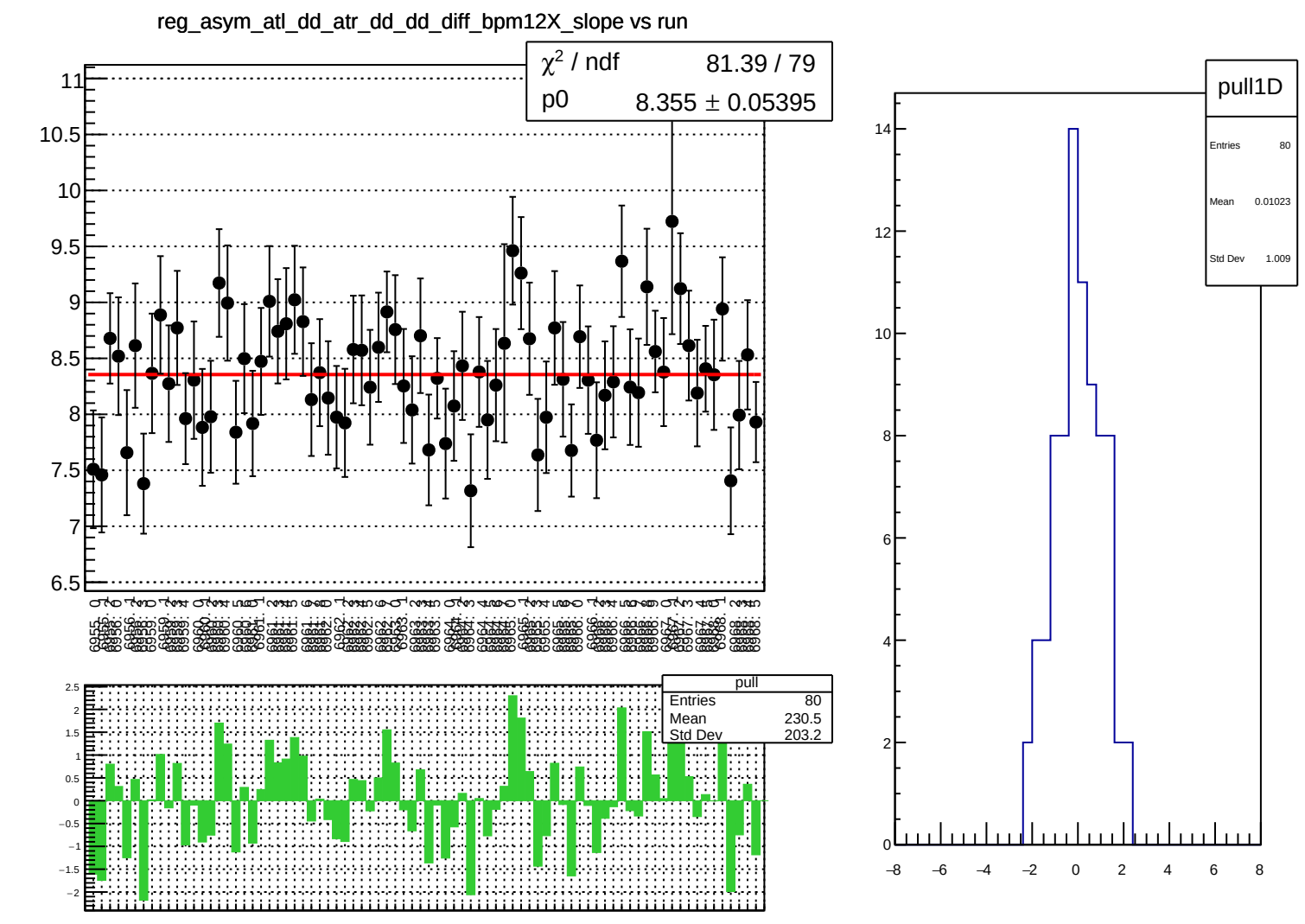

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 66 / 79
p0 −2.182 ± 1.225
pull
Entries 80
Mean −1358
Std Dev 1387
pull1D
Entries 80
Mean 0.001384
Std Dev 0.9083

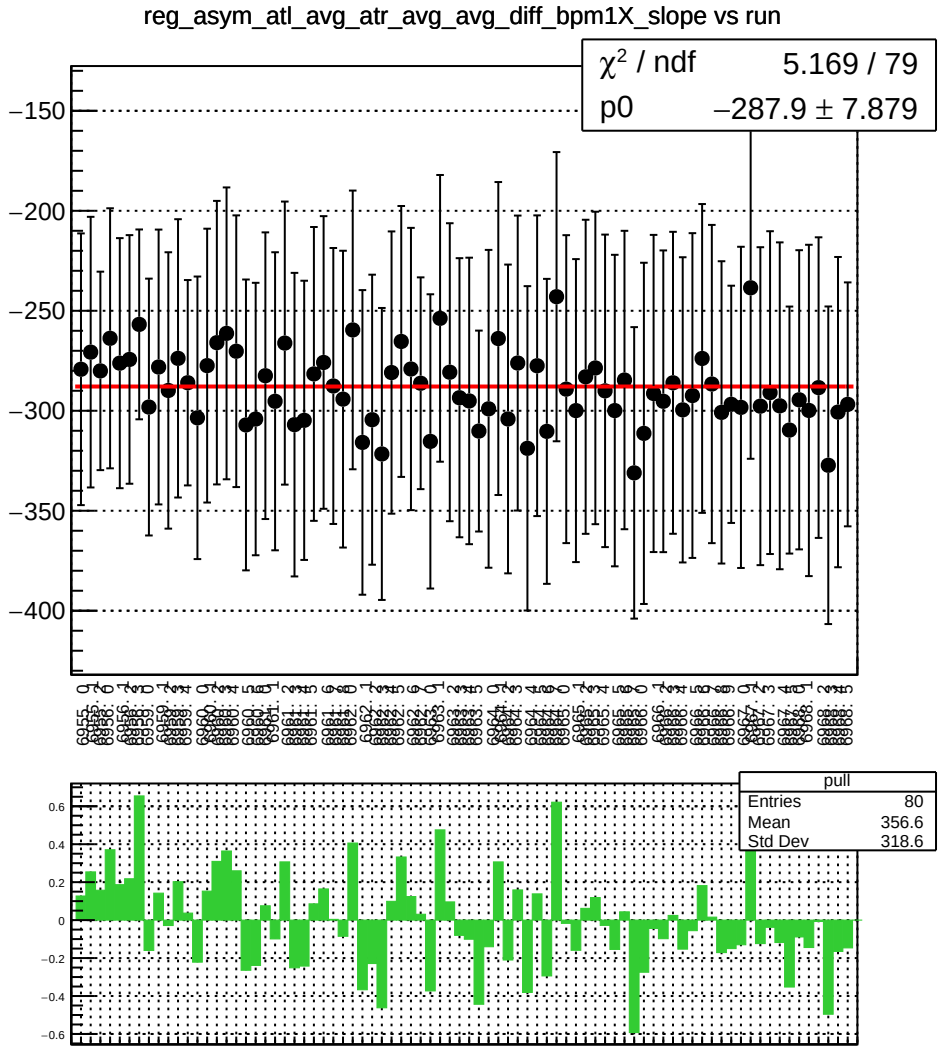

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.38 / 79
p0 38.82 ± 1.642
pull
Entries 80
Mean 107.4
Std Dev 90.05

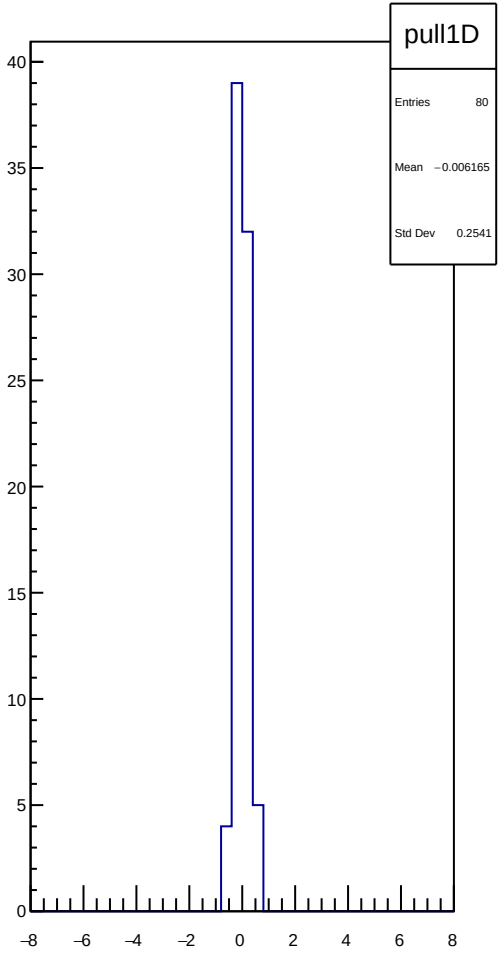

pull1D
Entries 80
Mean −0.01271
Std Dev 0.9177

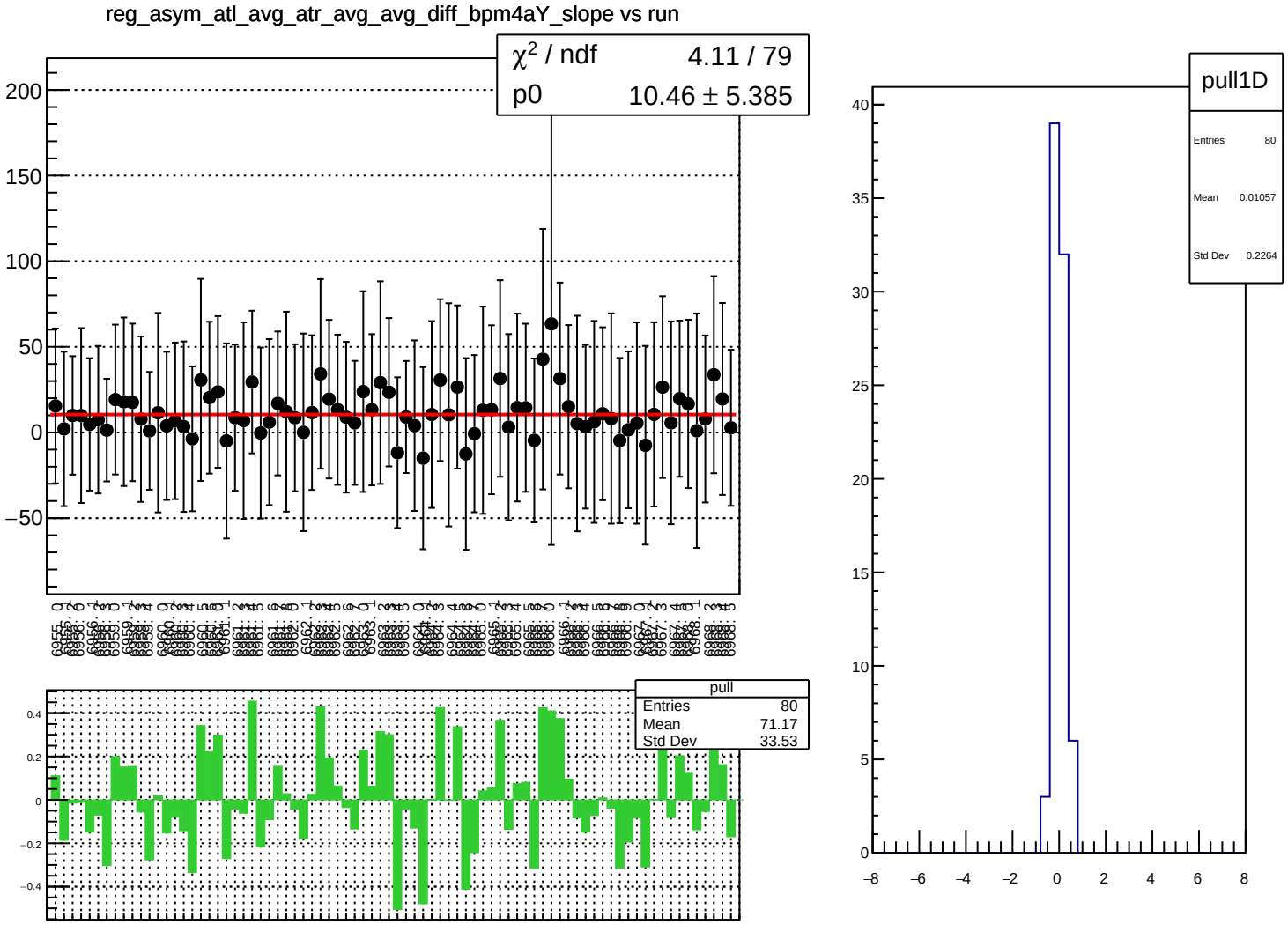

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 66.29 / 79
p0 −2.019 ± 1.392
pull
Entries 80
Mean 1181
Std Dev 1148

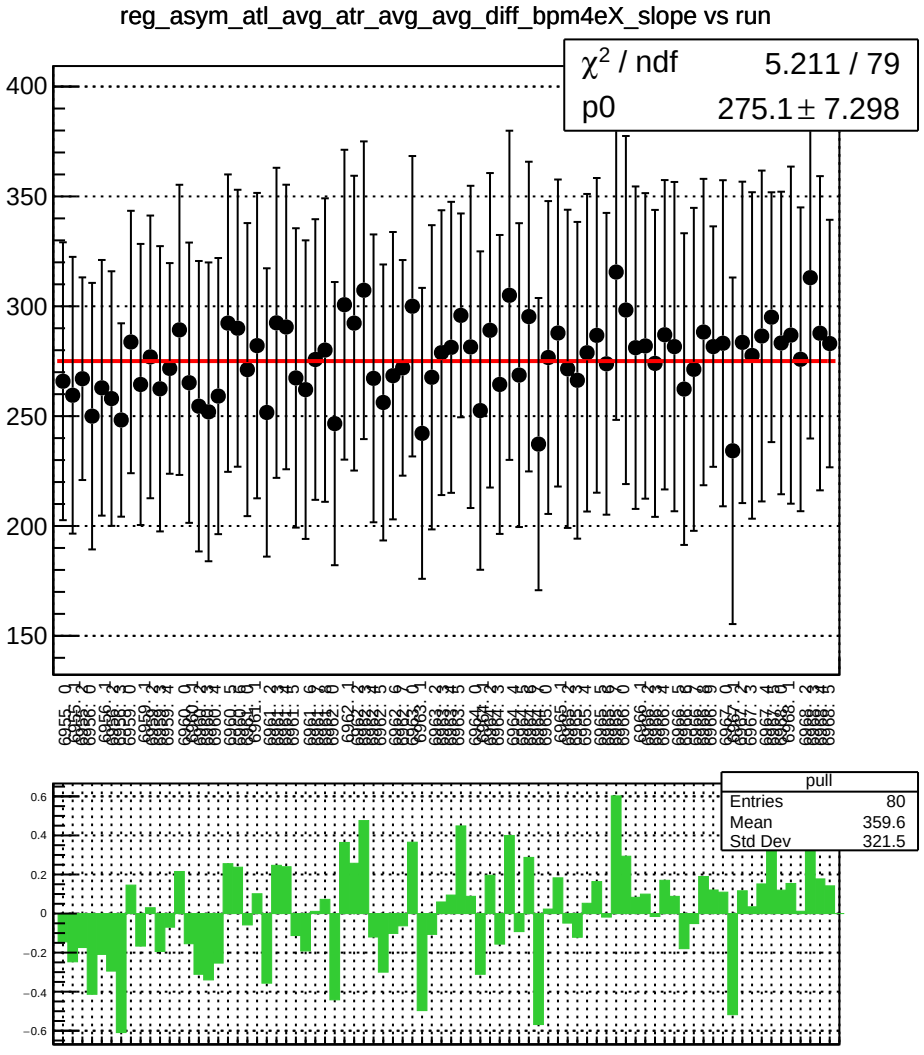

pull1D
Entries 80
Mean 0.0024
Std Dev 0.9103

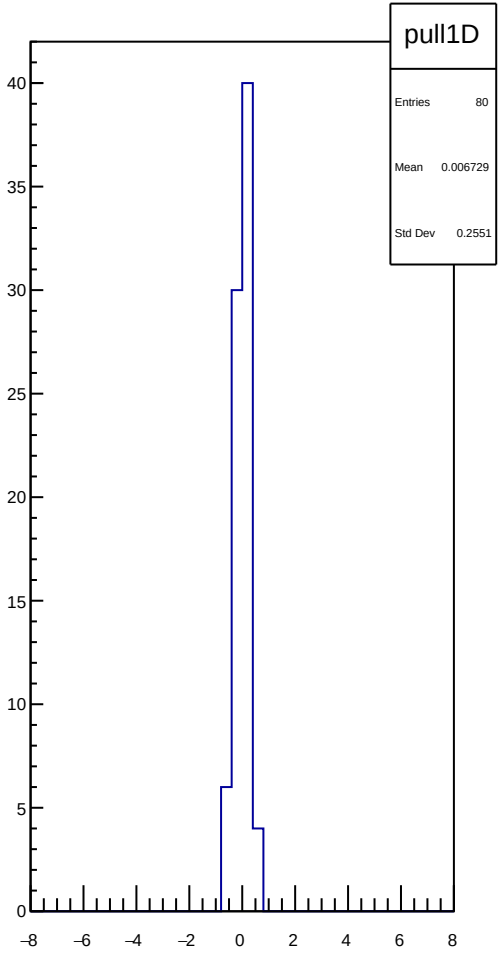

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 81.39 / 79
p0 8.355 ± 0.05395
pull
Entries 80
Mean 230.5
Std Dev 203.2
pull1D
Entries 80
Mean 0.01023
Std Dev 1.009

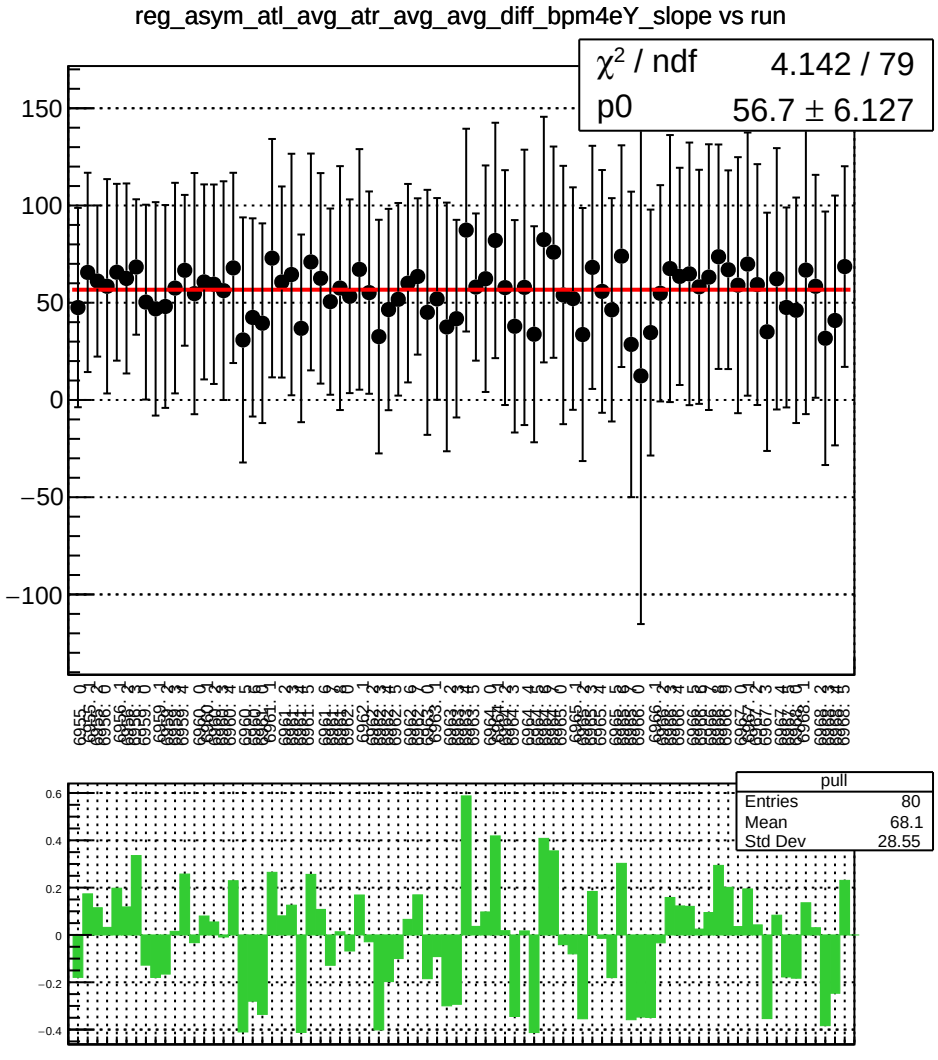

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 5.169 / 79
p0 −287.9 ± 7.879
pull
Entries 80
Mean 356.6
Std Dev 318.6

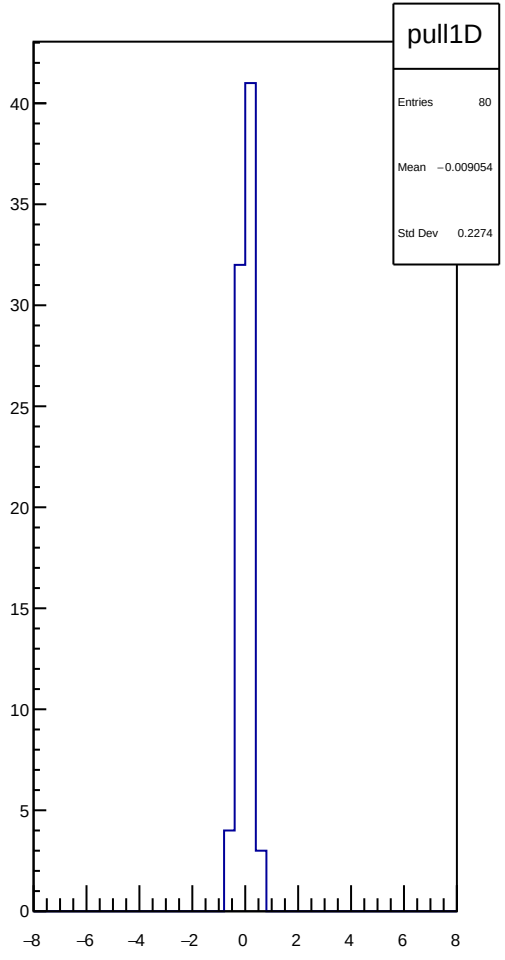

pull1D
Entries 80
Mean −0.006165
Std Dev 0.2541

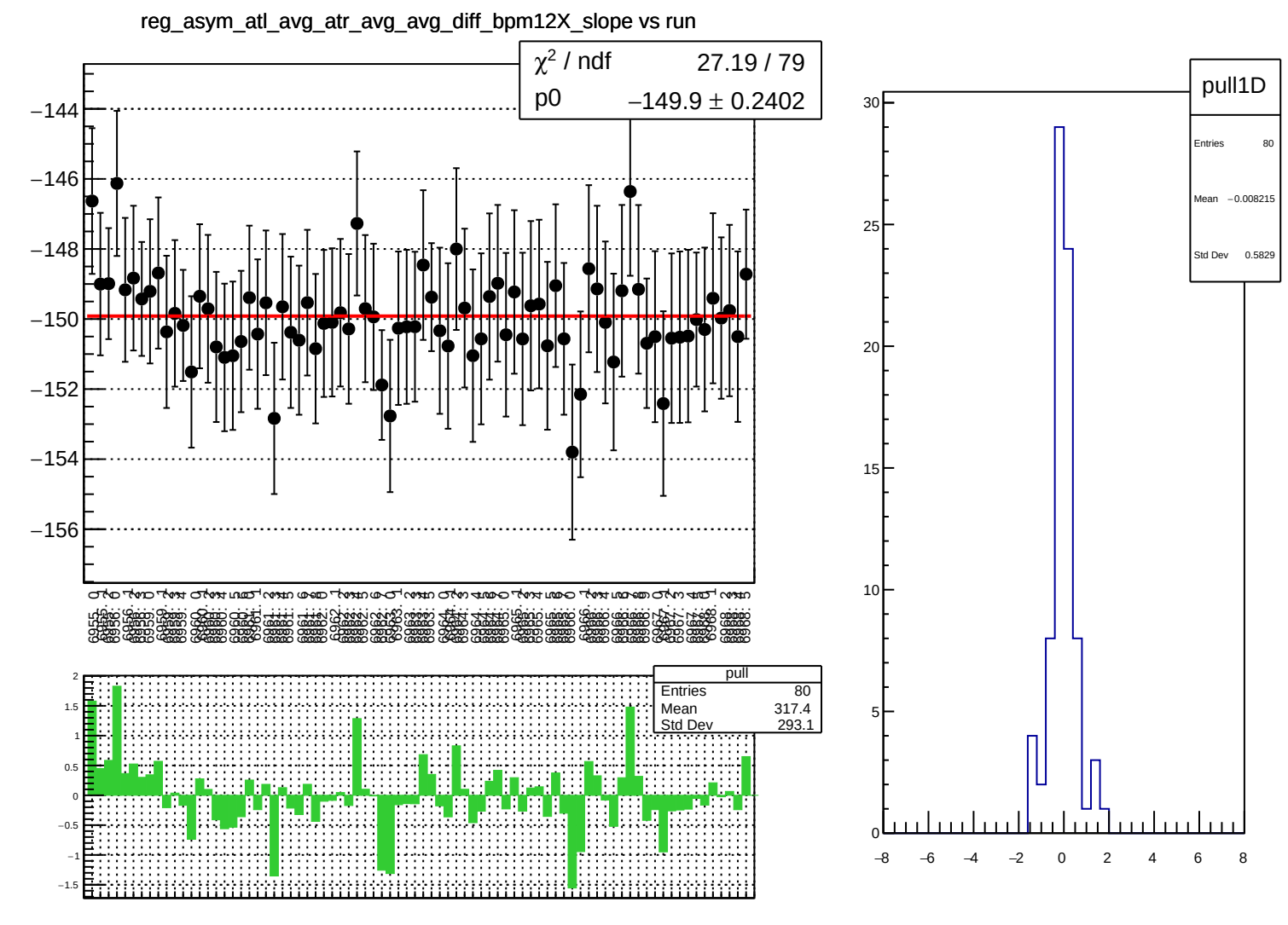

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.11 / 79
p0 10.46 ± 5.385
pull
Entries 80
Mean 71.17
Std Dev 33.53
pull1D
Entries 80
Mean 0.01057
Std Dev 0.2264

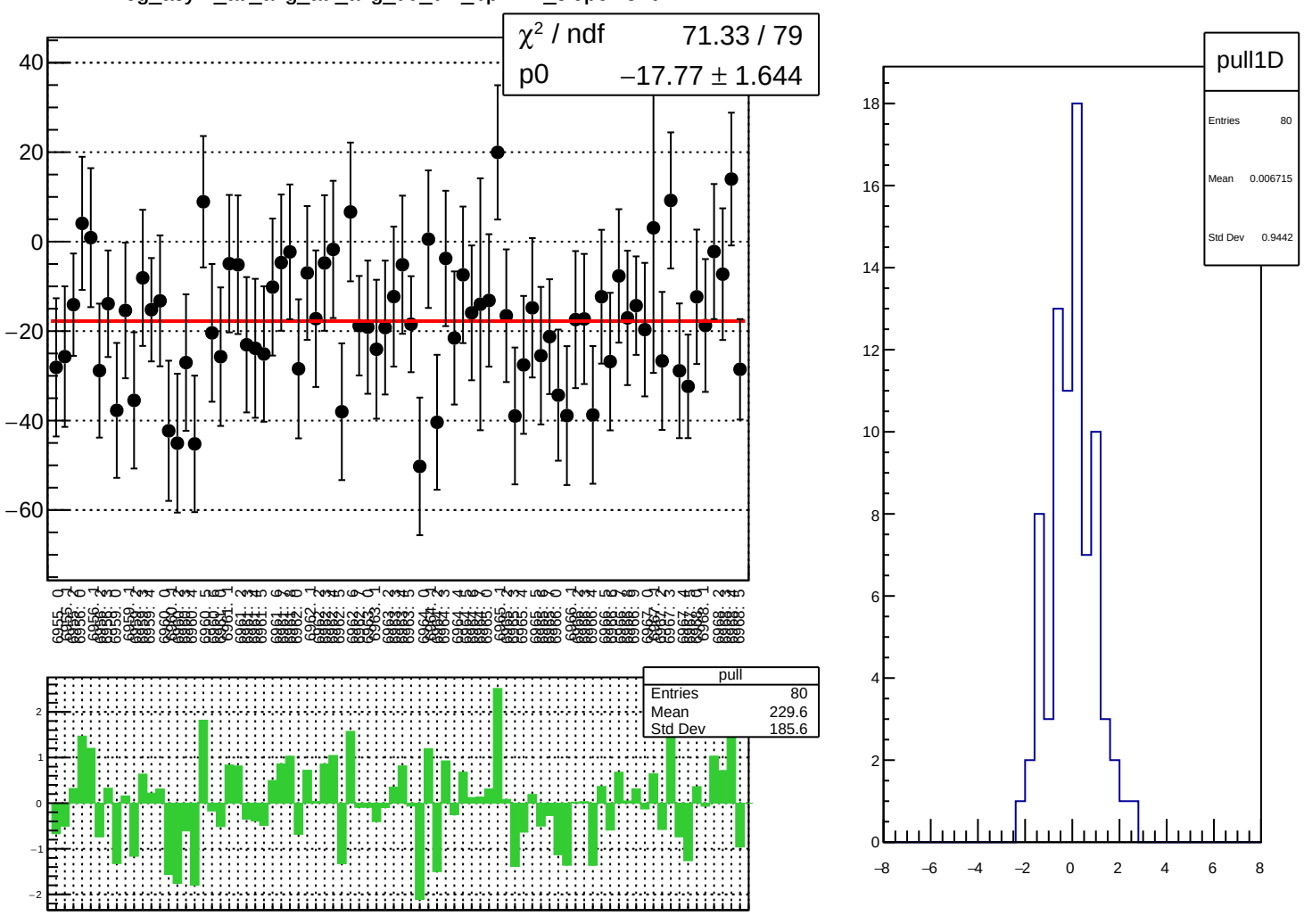

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.211 / 79
p0 275.1 ± 7.298
pull
Entries 80
Mean 359.6
Std Dev 321.5

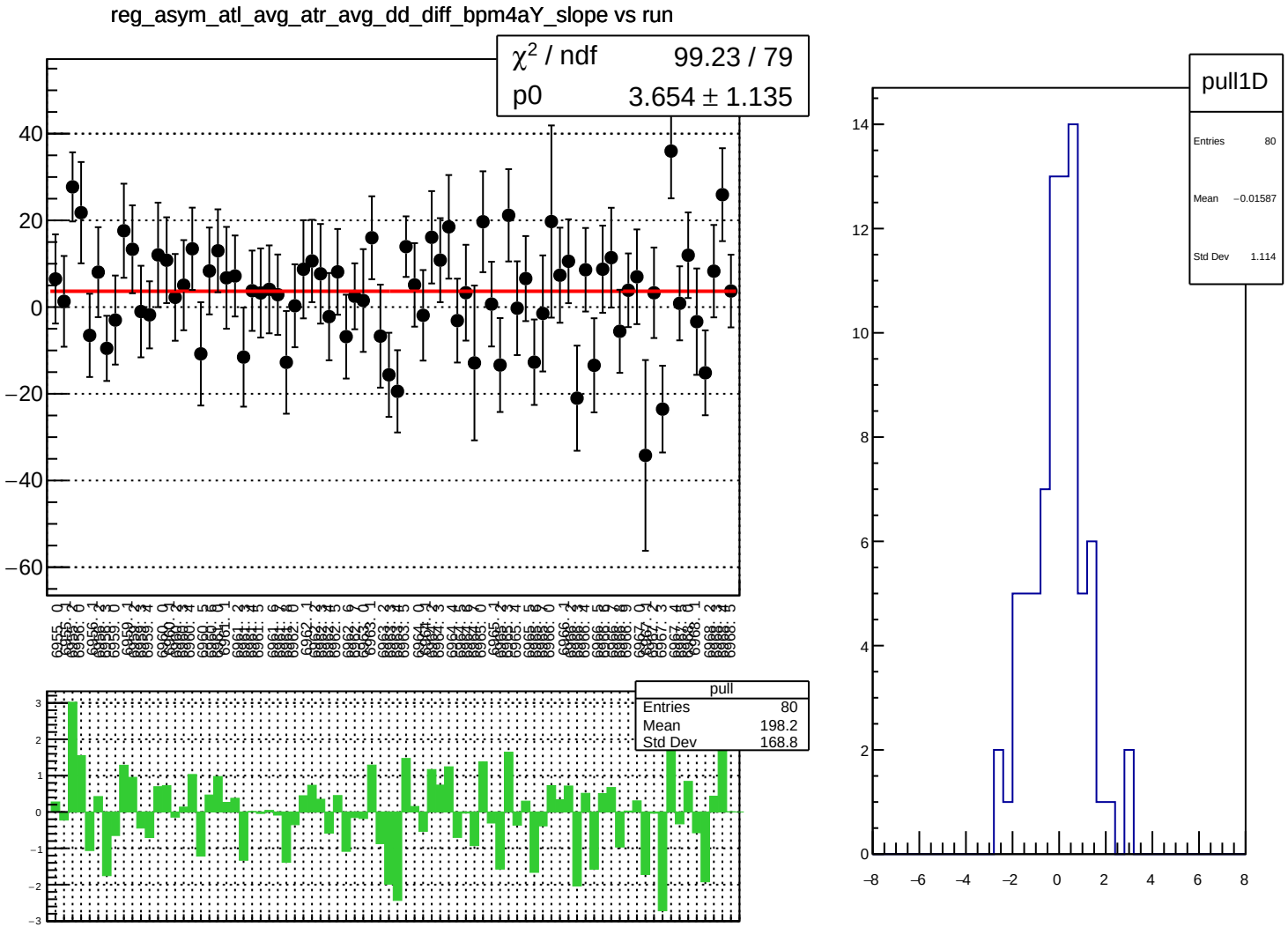

pull1D
Entries 80
Mean 0.006729
Std Dev 0.2551

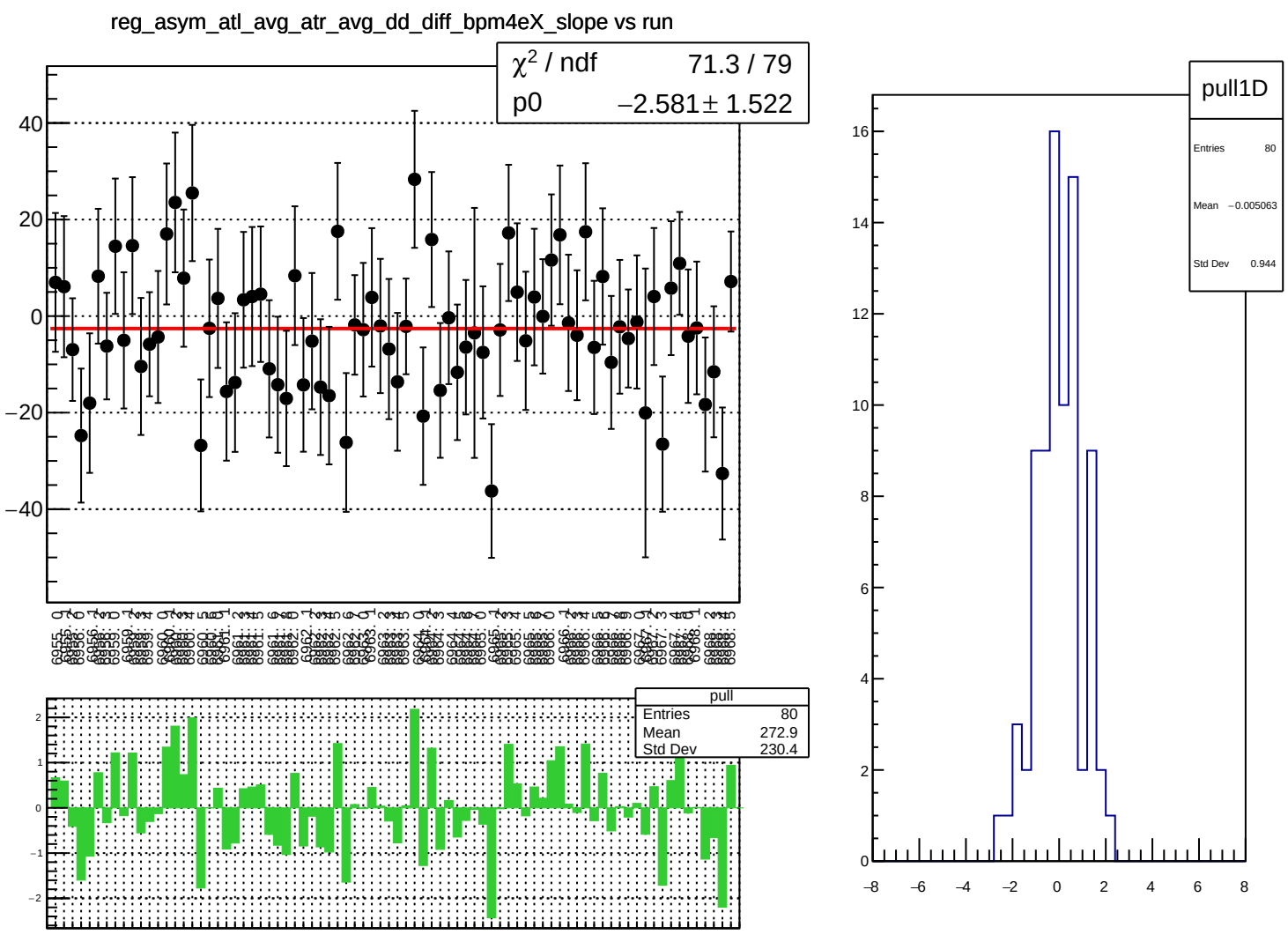

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.142 / 79
p0 56.7 ± 6.127
150
100
50
0
−50
−100
pull
Entries 80
Mean 68.1
Std Dev 28.55
0.6
0.4
0.2
0
−0.2
−0.4

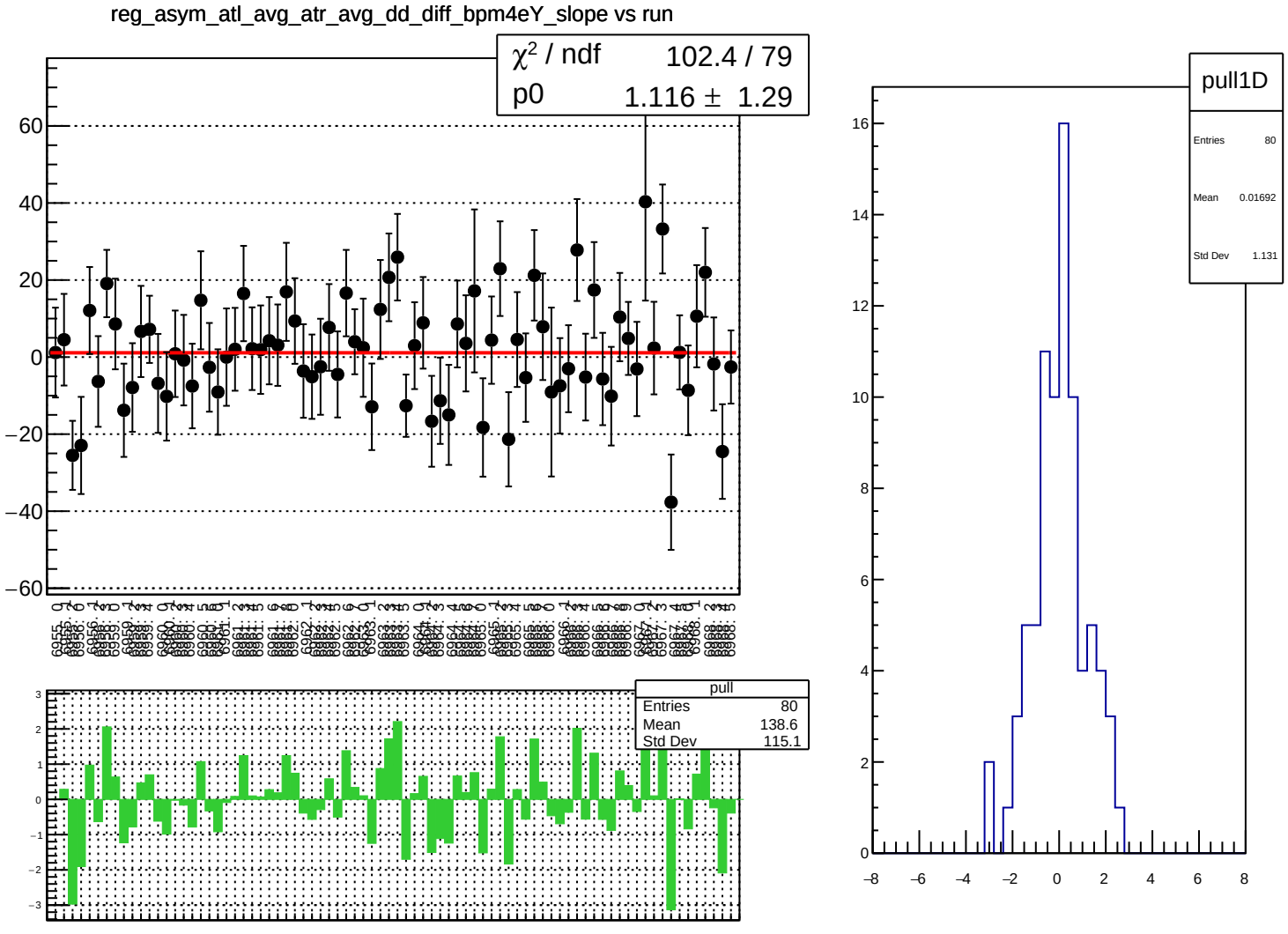

pull1D
Entries 80
Mean −0.009054
Std Dev 0.2274
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

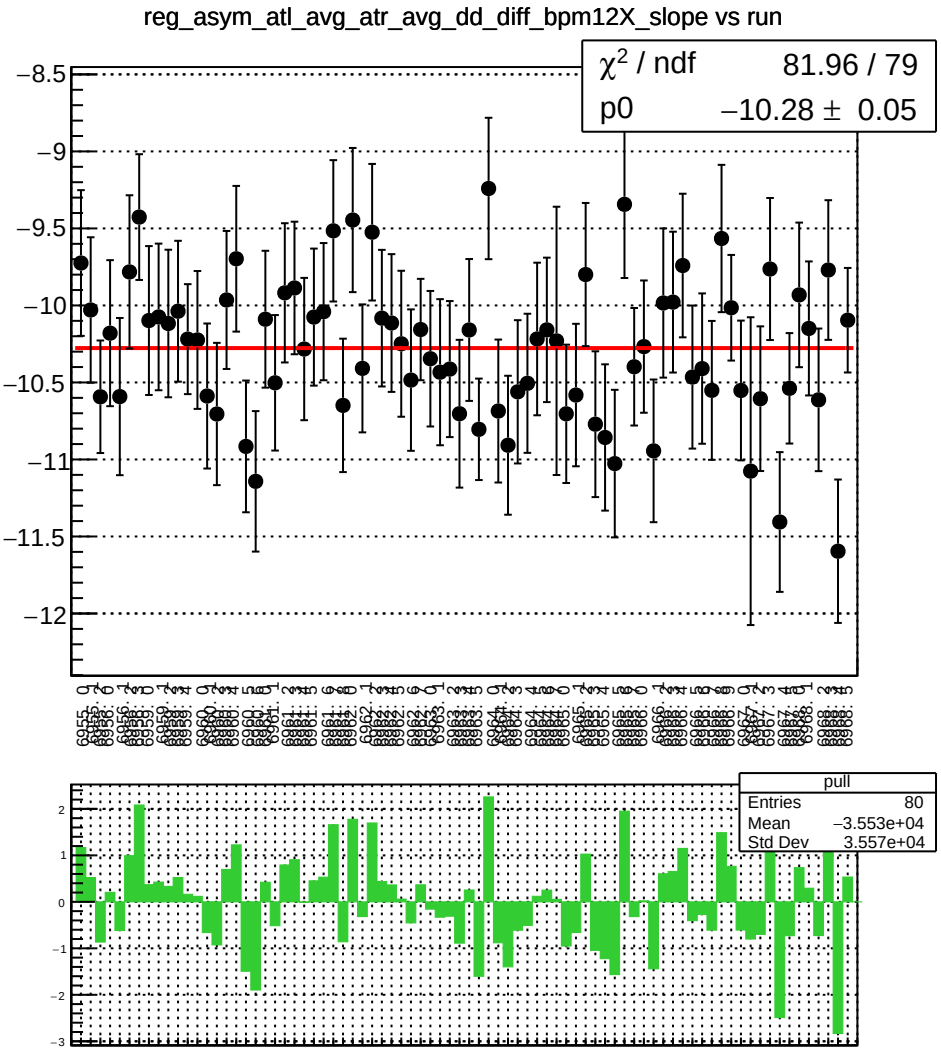

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 27.19 / 79
p0 −149.9 ± 0.2402
−144
−146
−148
−150
−152
−154
−156
pull
Entries 80
Mean 317.4
Std Dev 293.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 80
Mean −0.008215
Std Dev 0.5829
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

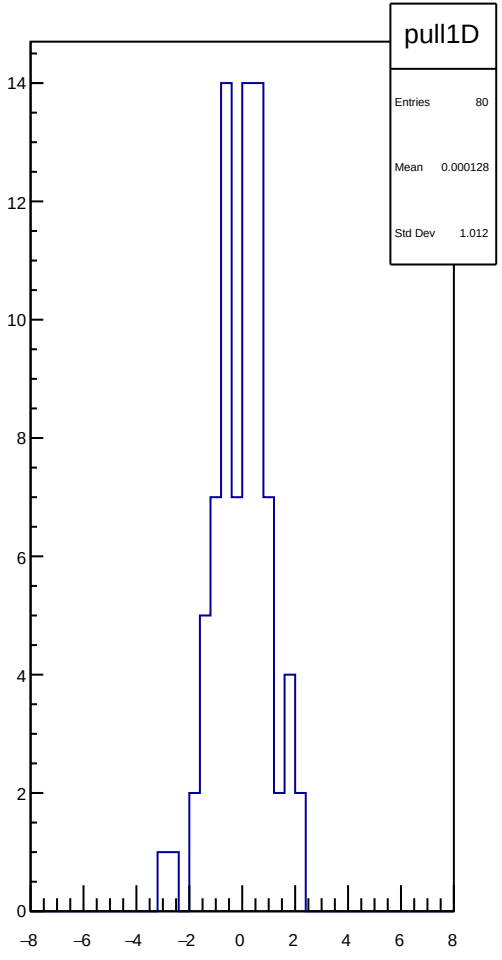

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 71.33 / 79
p0 −17.77 ± 1.644
pull
Entries 80
Mean 229.6
Std Dev 185.6
pull1D
Entries 80
Mean 0.006715
Std Dev 0.9442

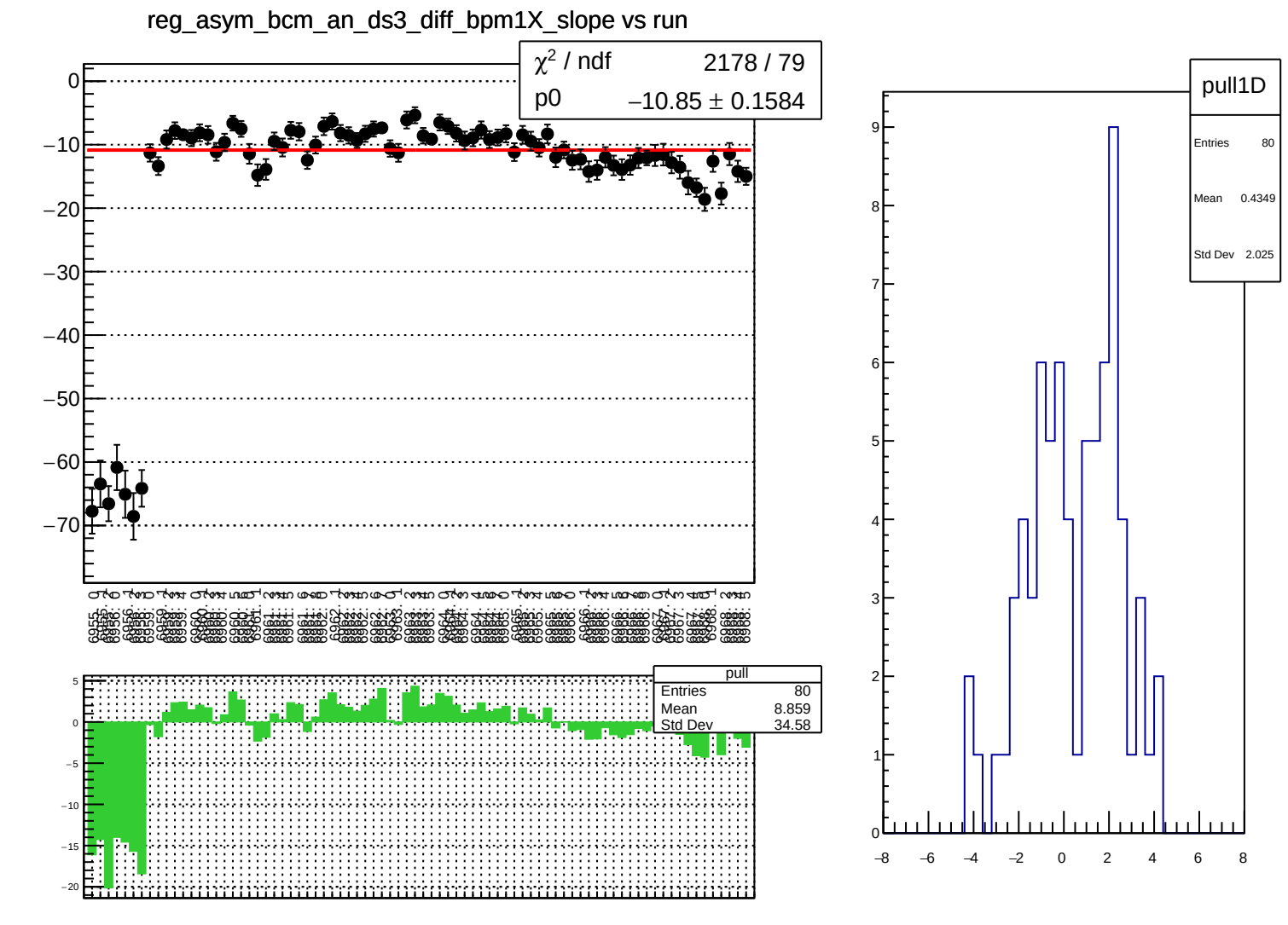

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 99.23 / 79
p0 3.654 ± 1.135
pull
Entries 80
Mean 198.2
Std Dev 168.8
pull1D
Entries 80
Mean −0.01587
Std Dev 1.114

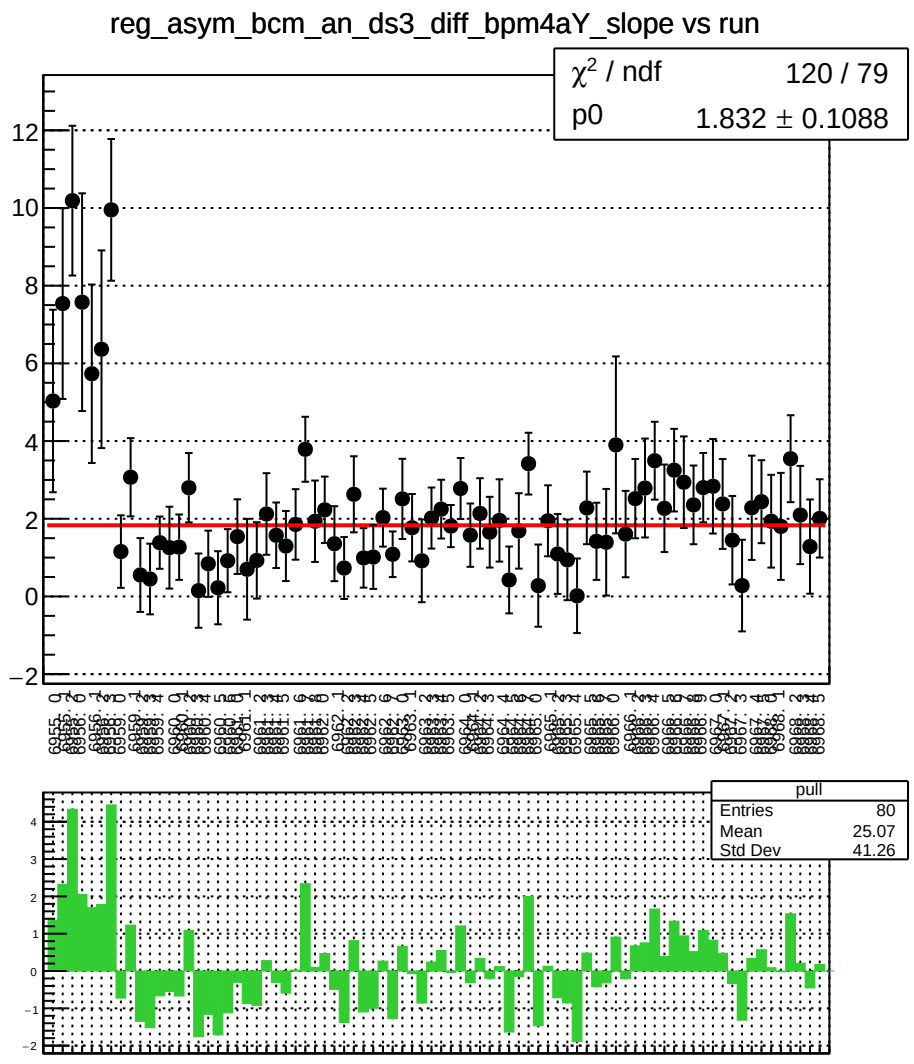

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.3 / 79
p0 −2.581 ± 1.522
pull
Entries 80
Mean 272.9
Std Dev 230.4
pull1D
Entries 80
Mean −0.005063
Std Dev 0.944

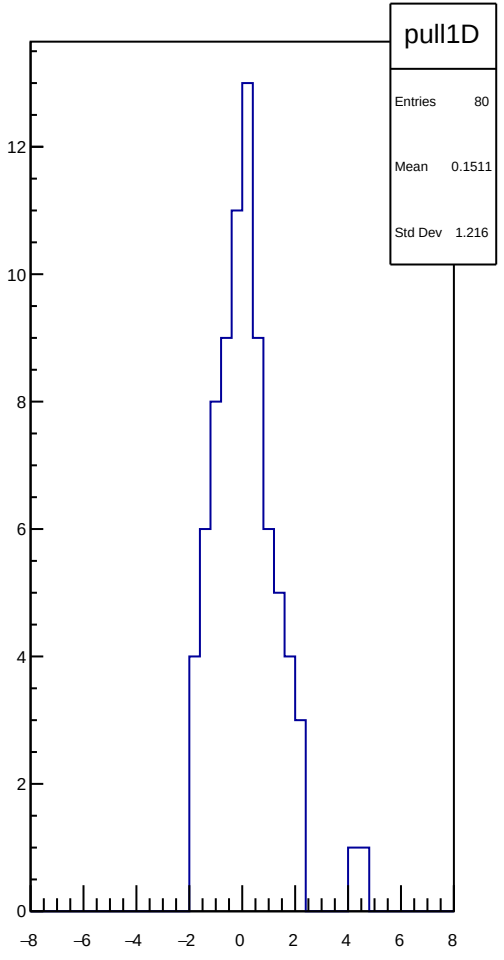

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 102.4 / 79
p0 1.116 ± 1.29
pull
Entries 80
Mean 138.6
Std Dev 115.1
pull1D
Entries 80
Mean 0.01692
Std Dev 1.131

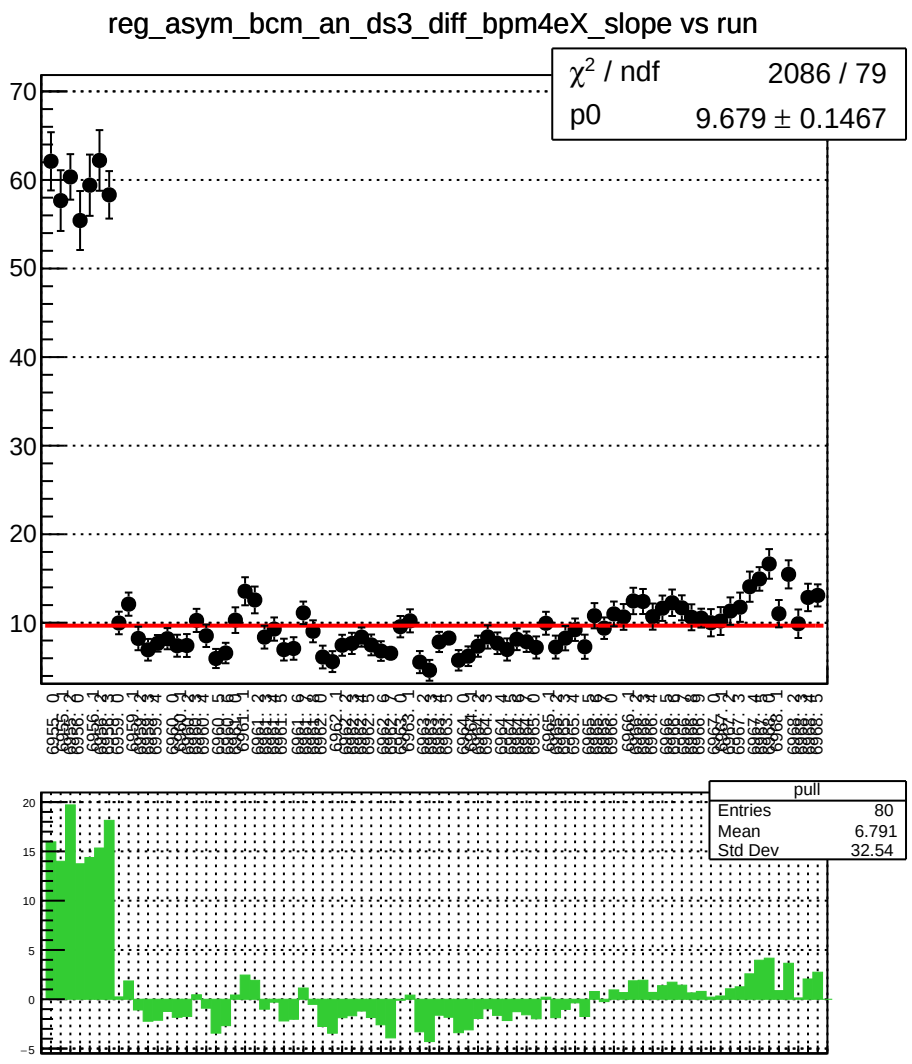

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 81.96 / 79
p0 −10.28 ± 0.05
−8.5
−9
−9.5
−10
−10.5
−11
−11.5
−12
pull
Entries 80
Mean −3.553e+04
Std Dev 3.557e+04
2
1
0
−1
−2
−3

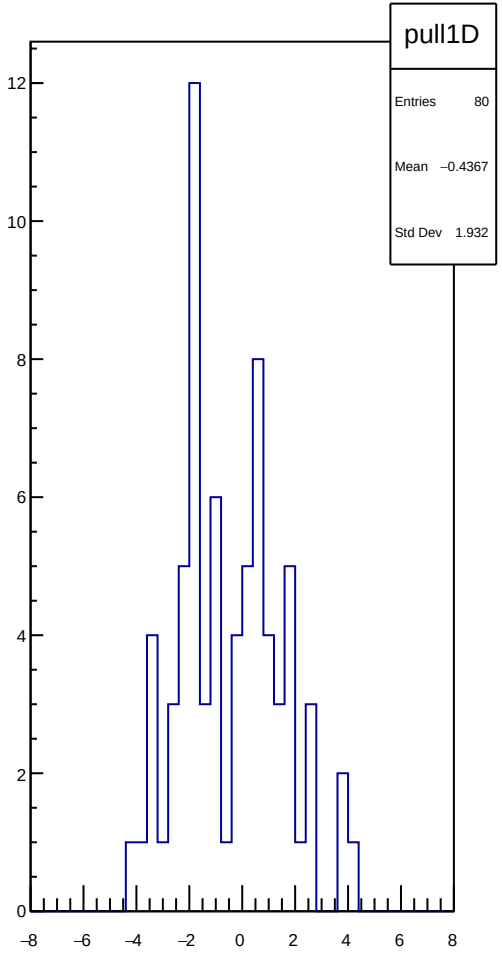

pull1D
Entries 80
Mean 0.000128
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

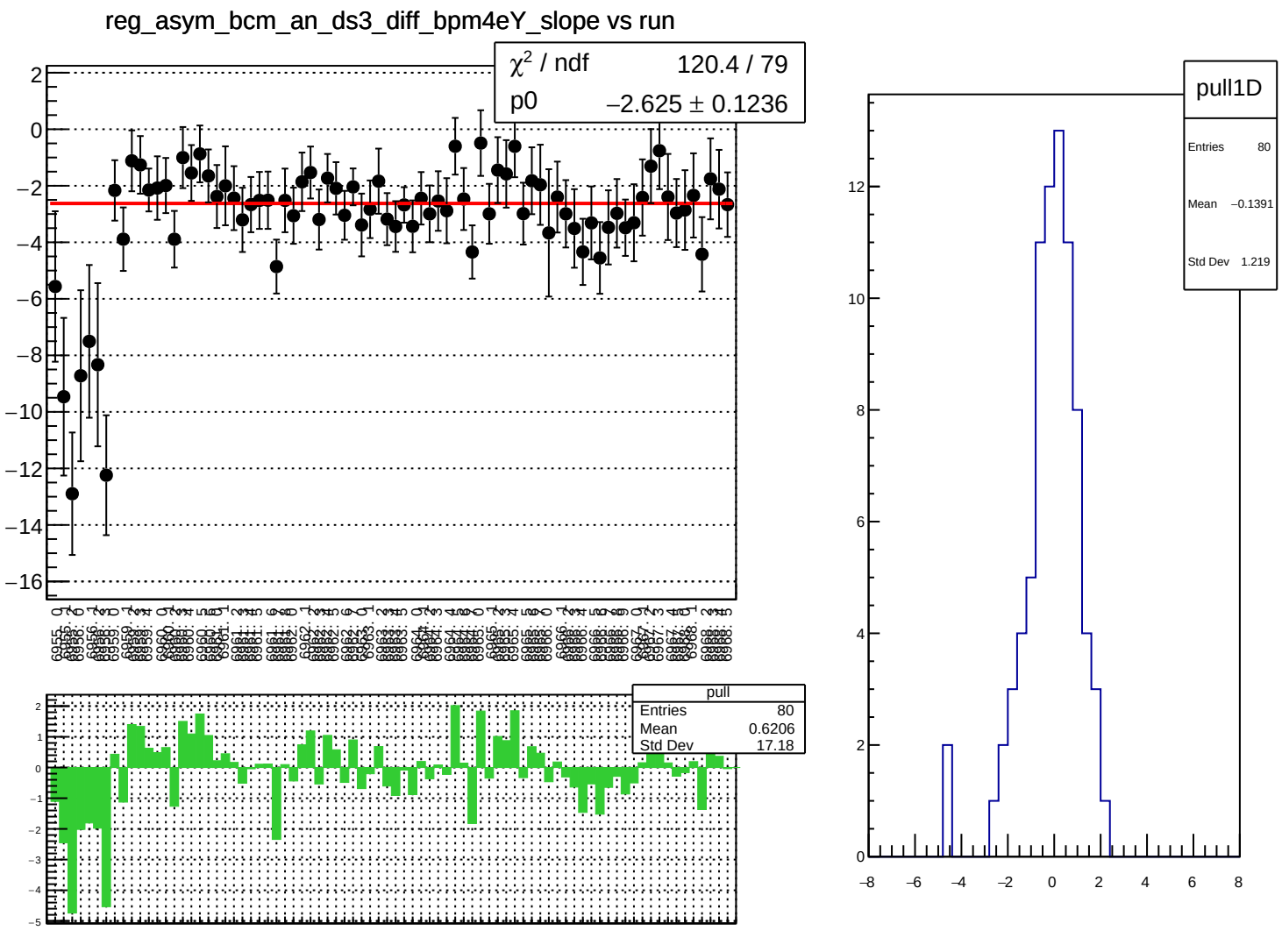

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 2178 / 79
p0 −10.85 ± 0.1584
pull
Entries 80
Mean 8.859
Std Dev 34.58
pull1D
Entries 80
Mean 0.4349
Std Dev 2.025

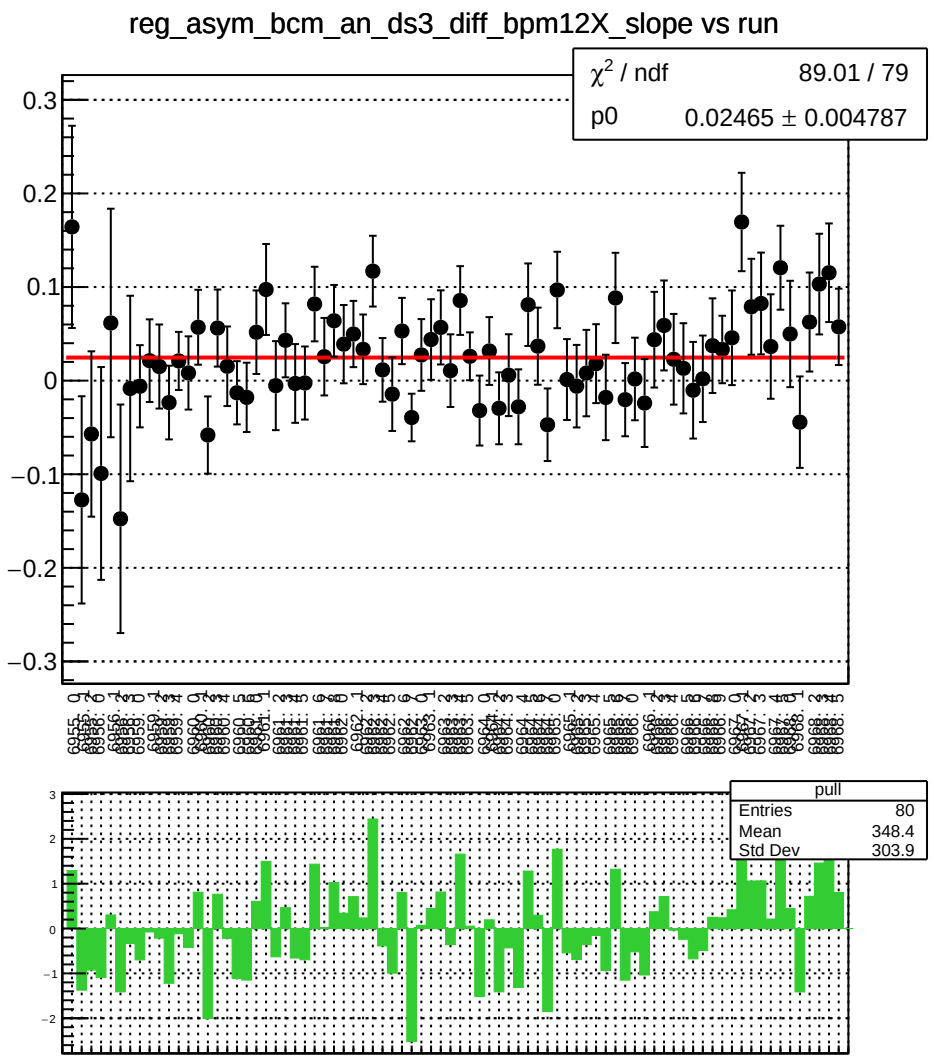

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 120 / 79
p0 1.832 ± 0.1088
pull
Entries 80
Mean 25.07
Std Dev 41.26

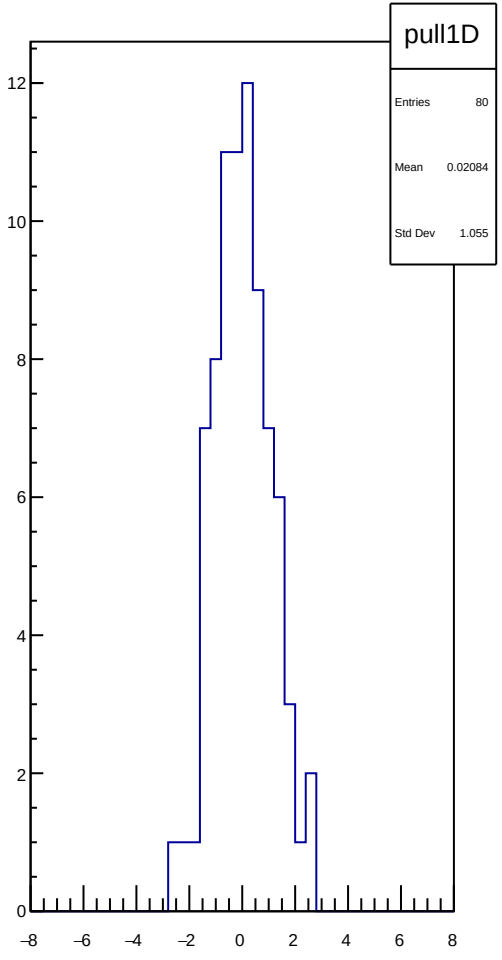

pull1D
Entries 80
Mean 0.1511
Std Dev 1.216

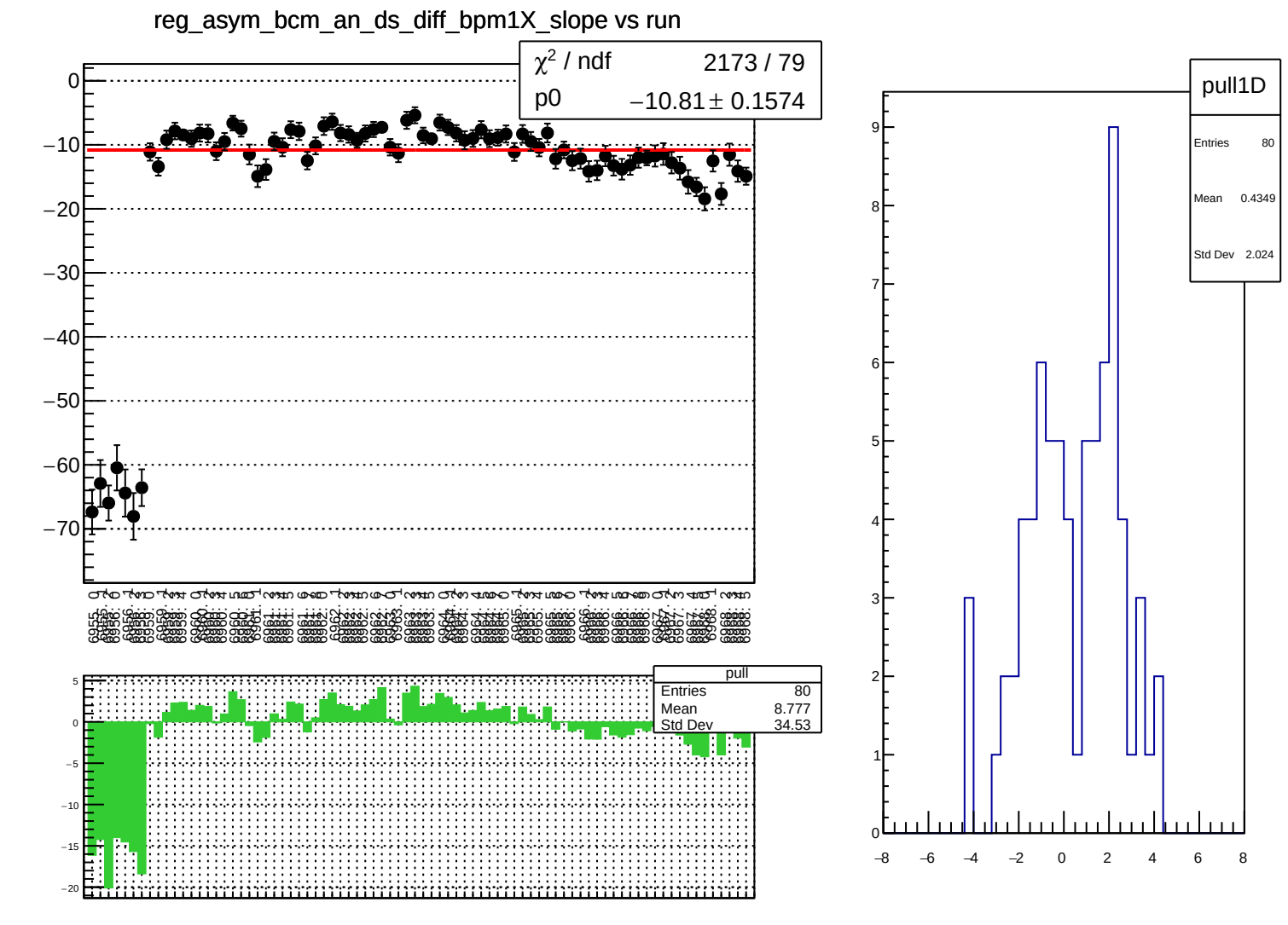

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 2086 / 79
p0 9.679 ± 0.1467
pull
Entries 80
Mean 6.791
Std Dev 32.54

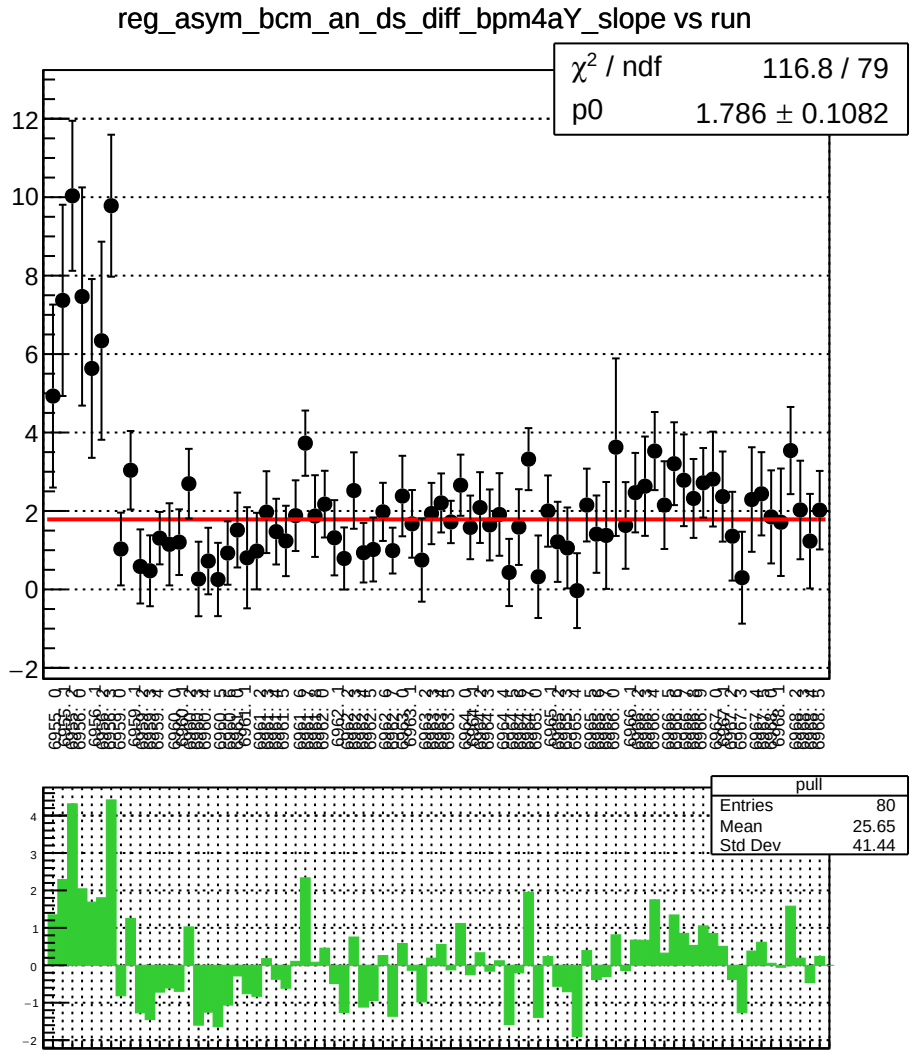

pull1D
Entries 80
Mean −0.4367
Std Dev 1.932

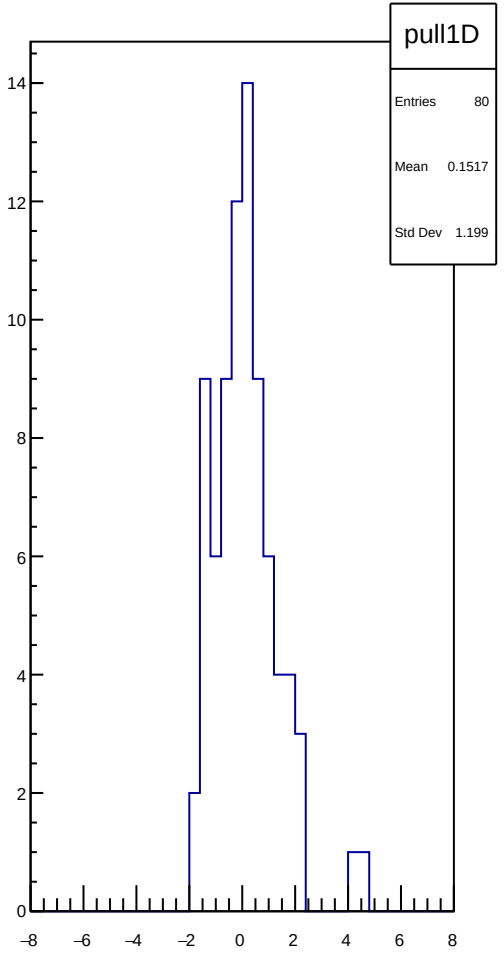

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 120.4 / 79
p0 −2.625 ± 0.1236
pull
Entries 80
Mean 0.6206
Std Dev 17.18
pull1D
Entries 80
Mean −0.1391
Std Dev 1.219

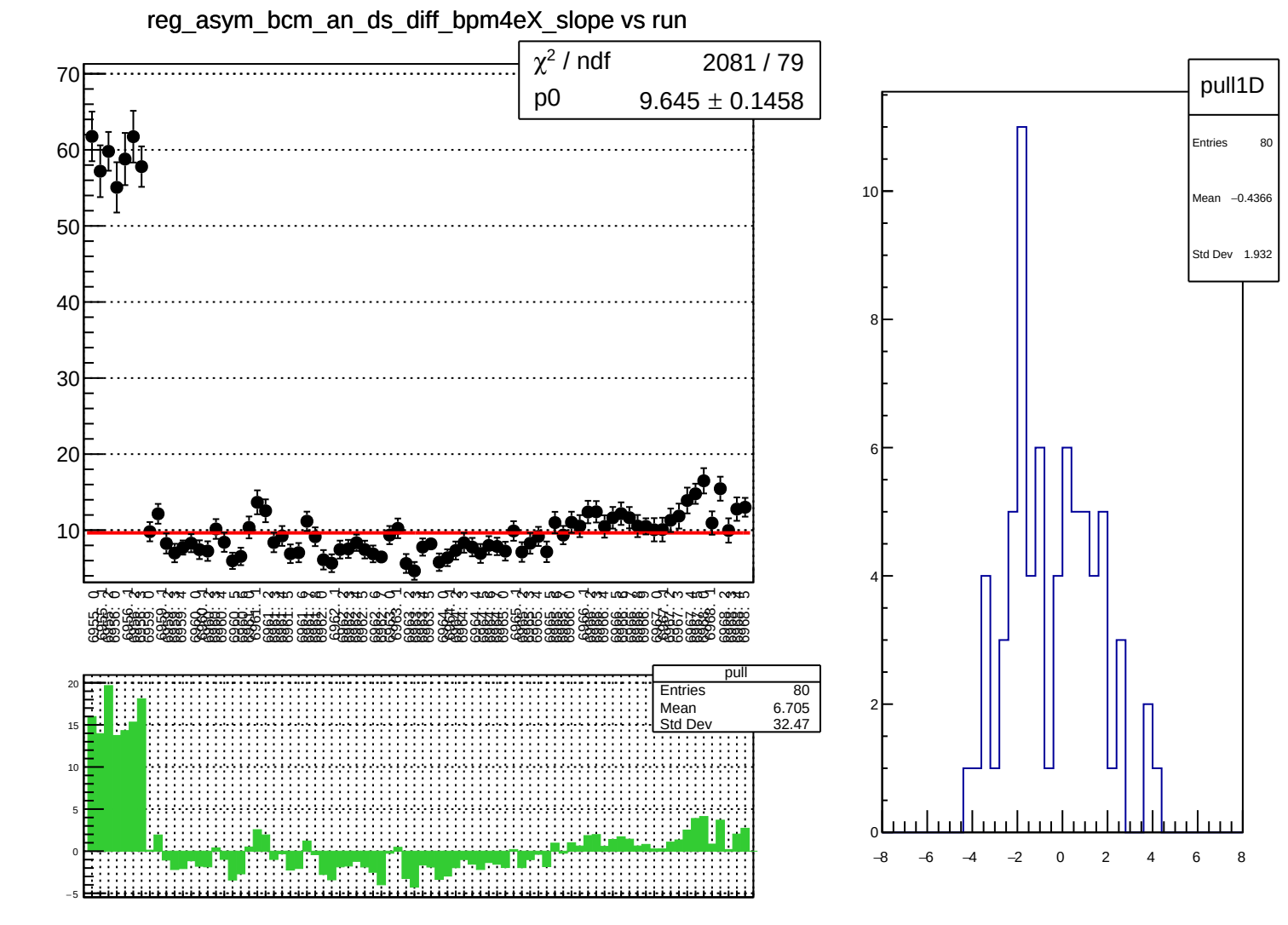

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 89.01 / 79
p0 0.02465 ± 0.004787
pull
Entries 80
Mean 348.4
Std Dev 303.9

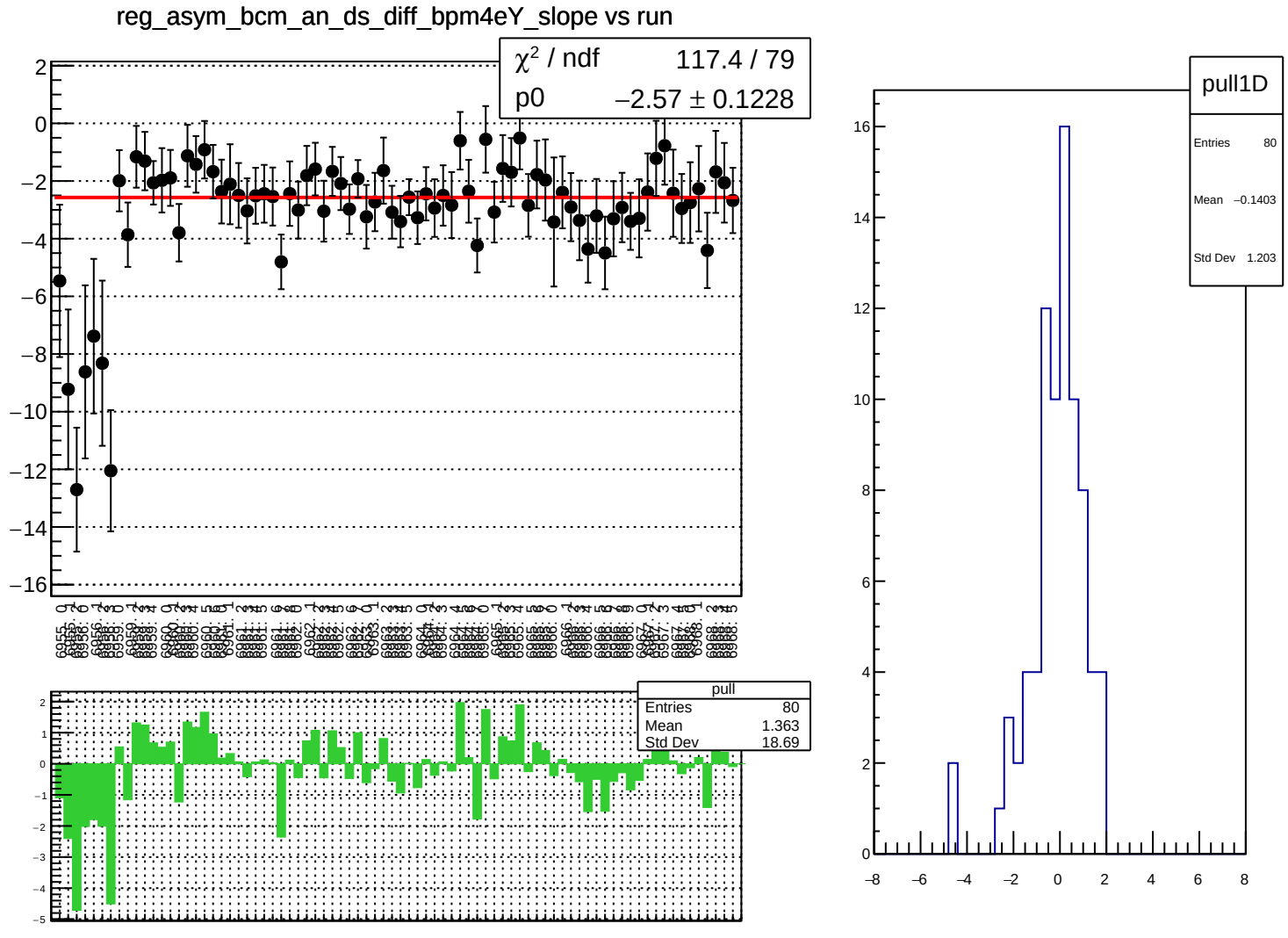

pull1D
Entries 80
Mean 0.02084
Std Dev 1.055

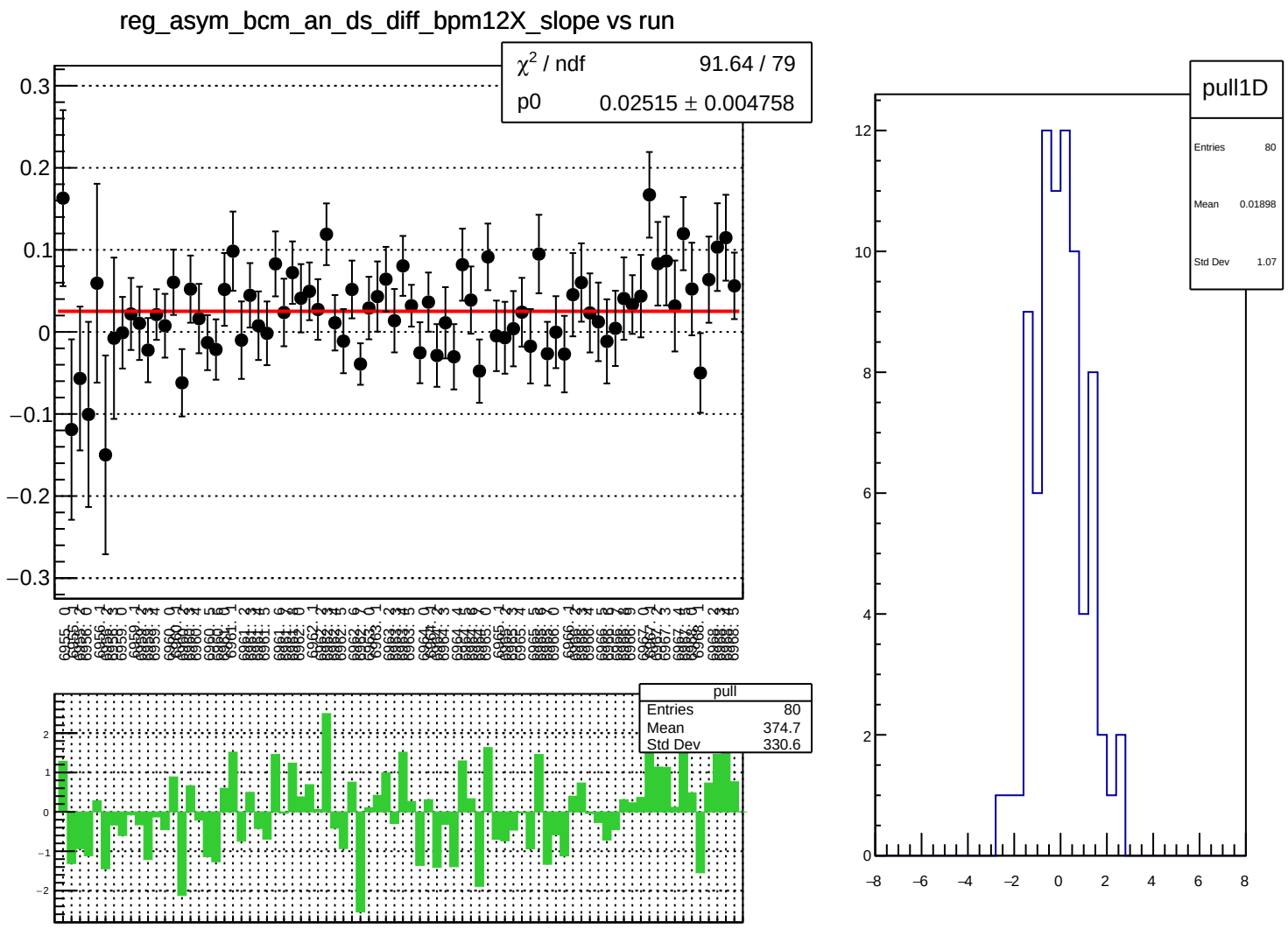

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 2173 / 79
p0 −10.81 ± 0.1574
pull
Entries 80
Mean 8.777
Std Dev 34.53
pull1D
Entries 80
Mean 0.4349
Std Dev 2.024

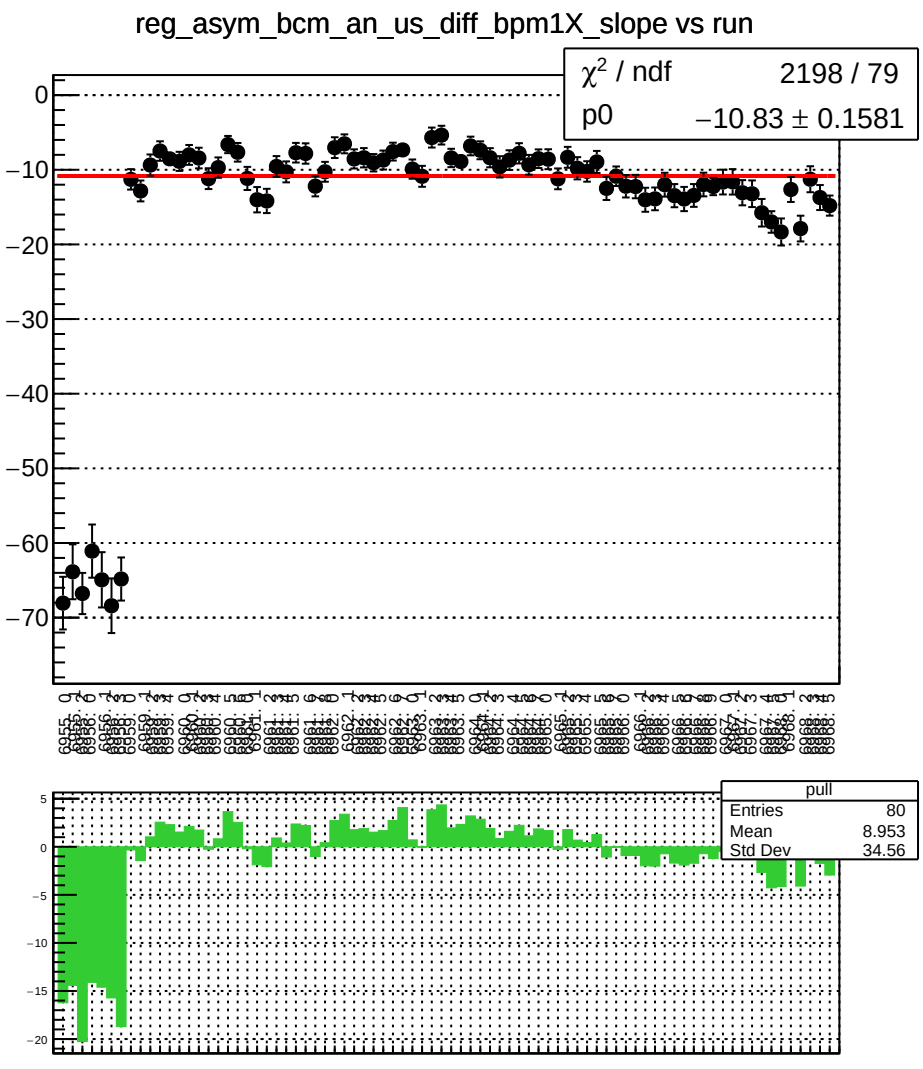

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 116.8 / 79
p0 1.786 ± 0.1082
pull
Entries 80
Mean 25.65
Std Dev 41.44

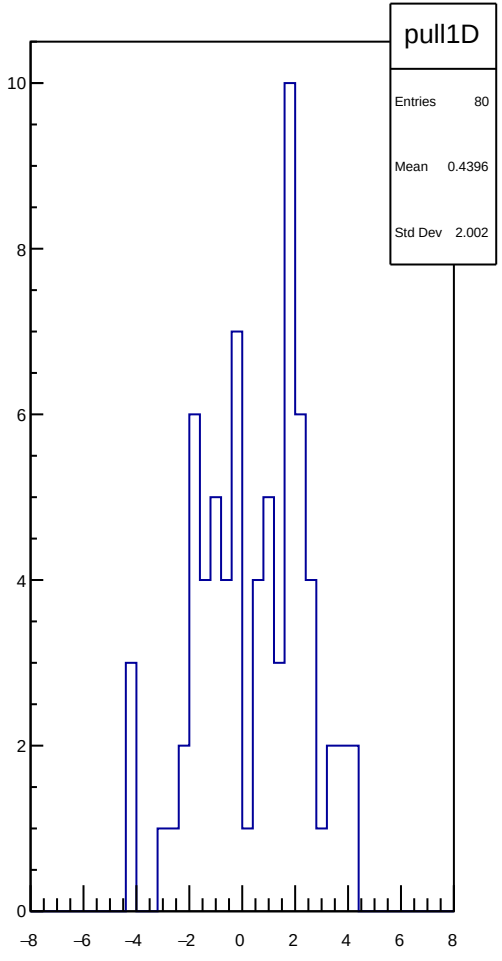

pull1D
Entries 80
Mean 0.1517
Std Dev 1.199

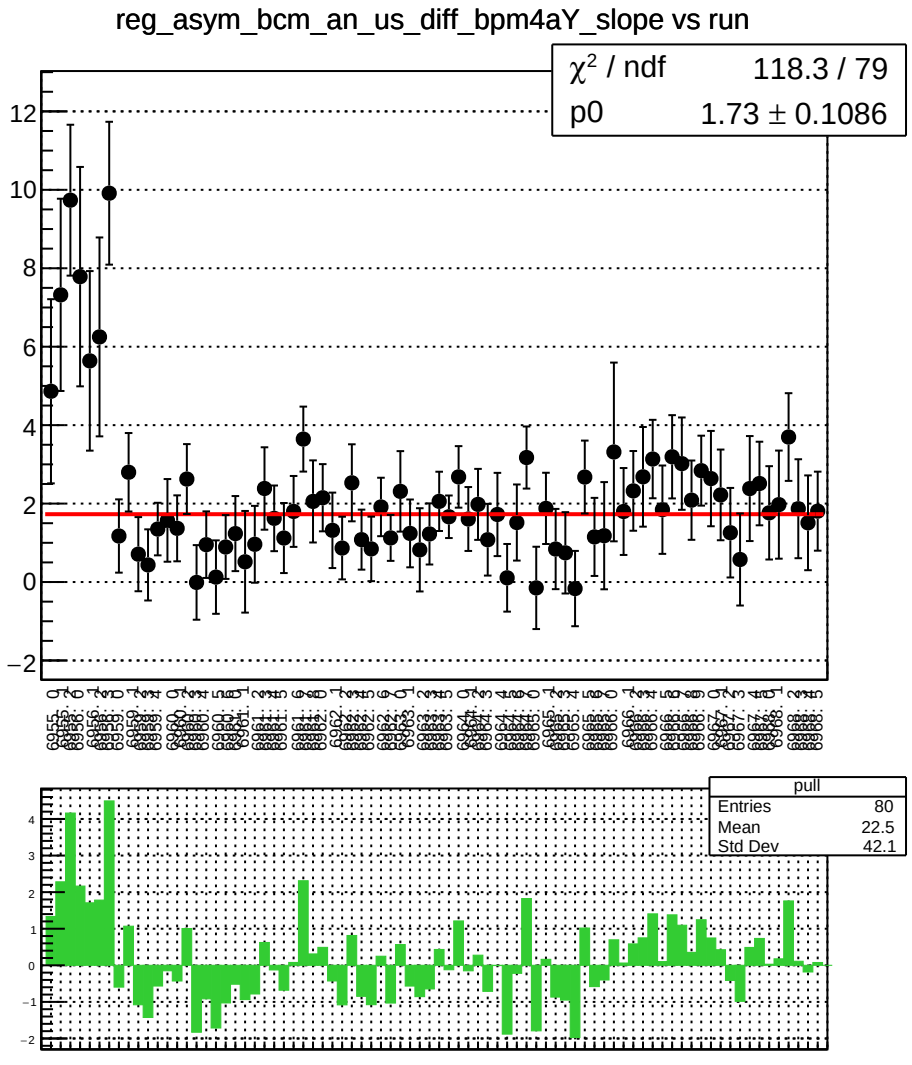

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 2081 / 79
p0 9.645 ± 0.1458
pull
Entries 80
Mean 6.705
Std Dev 32.47
pull1D
Entries 80
Mean −0.4366
Std Dev 1.932

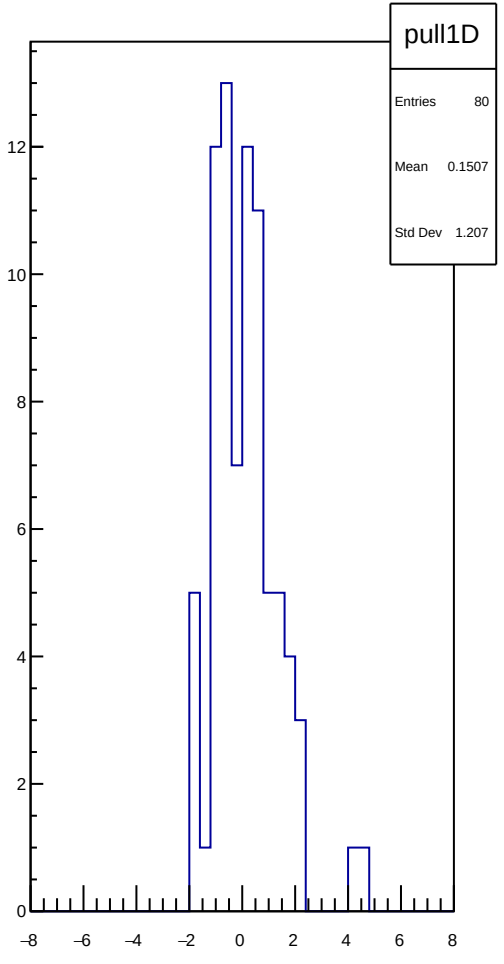

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 117.4 / 79
p0 −2.57 ± 0.1228
pull
Entries 80
Mean 1.363
Std Dev 18.69
pull1D
Entries 80
Mean −0.1403
Std Dev 1.203

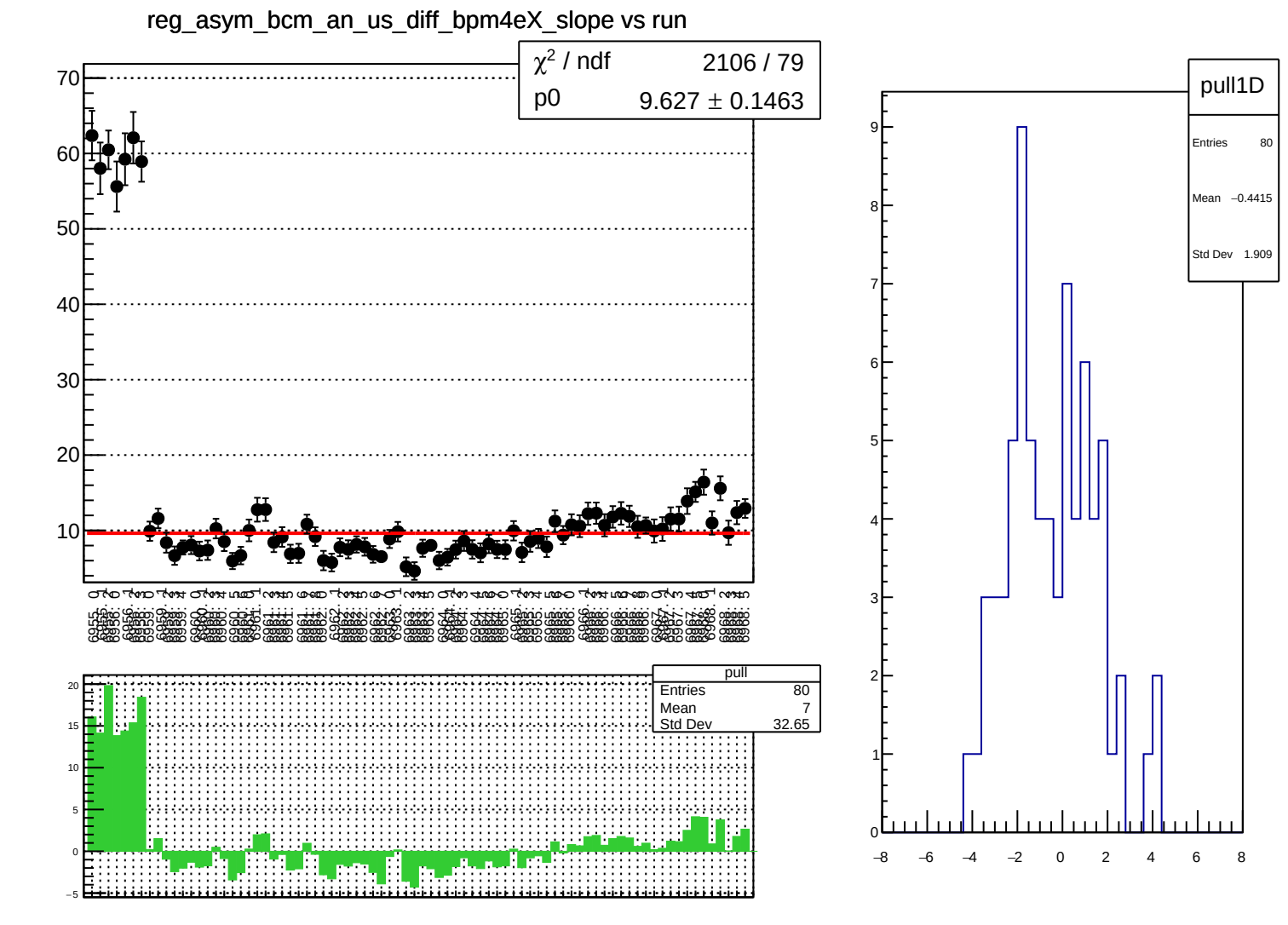

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 91.64 / 79
p0 0.02515 ± 0.004758
pull
Entries 80
Mean 374.7
Std Dev 330.6
pull1D
Entries 80
Mean 0.01898
Std Dev 1.07

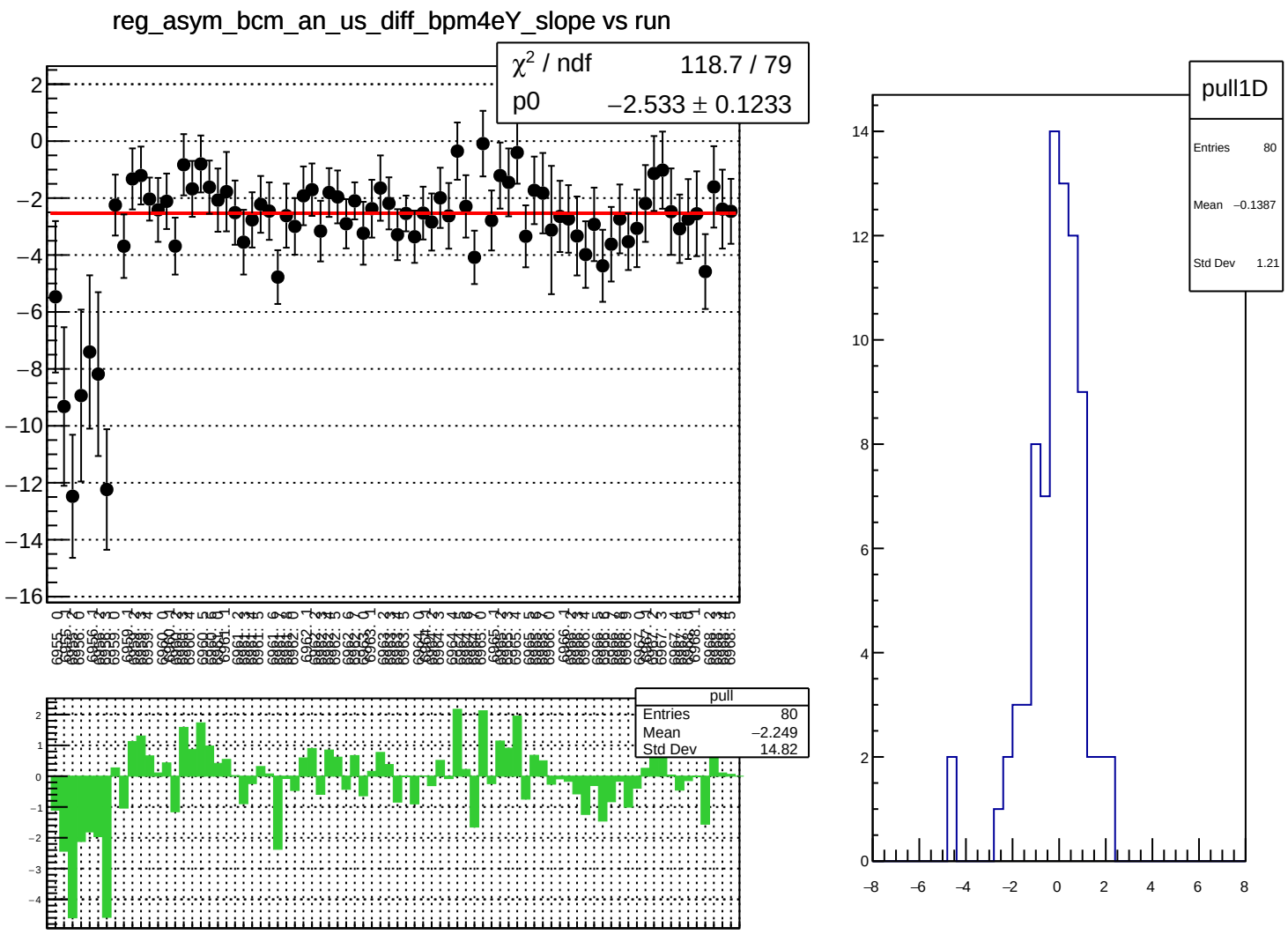

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 2198 / 79
p0 −10.83 ± 0.1581
pull
Entries 80
Mean 8.953
Std Dev 34.56

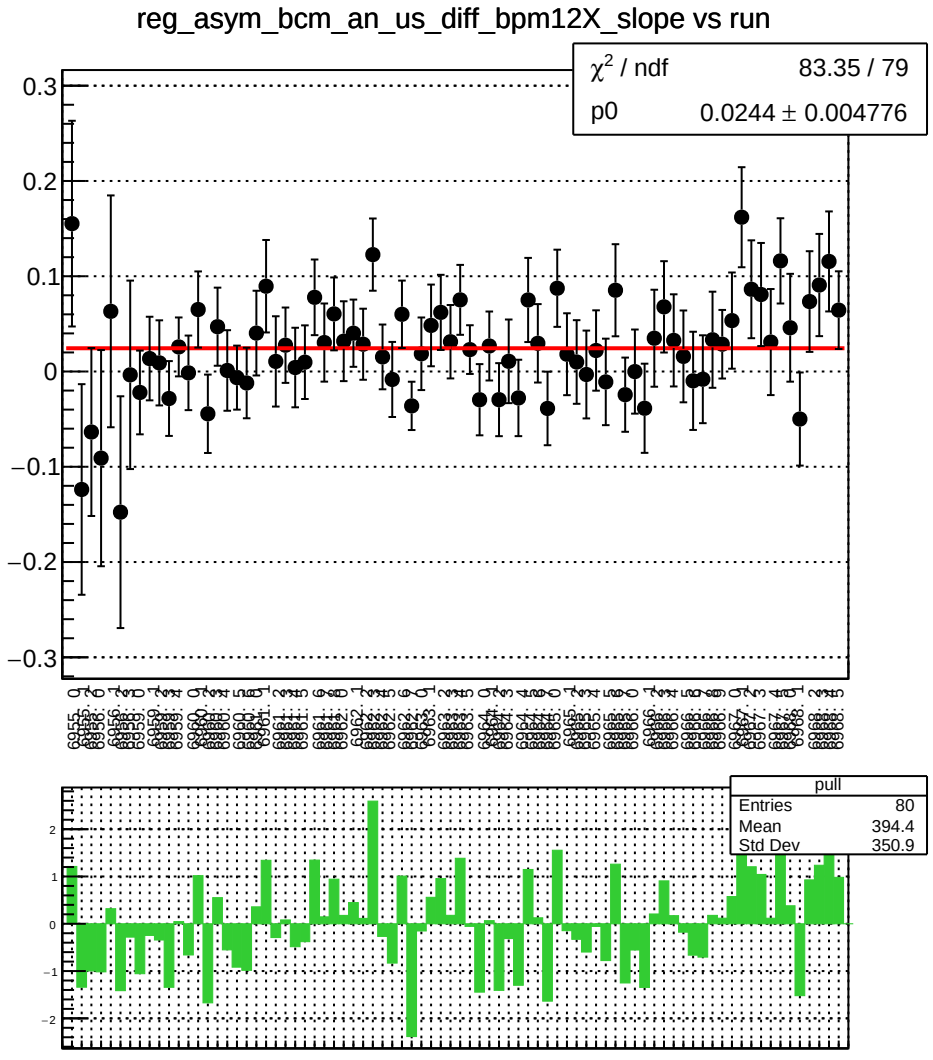

pull1D
Entries 80
Mean 0.4396
Std Dev 2.002

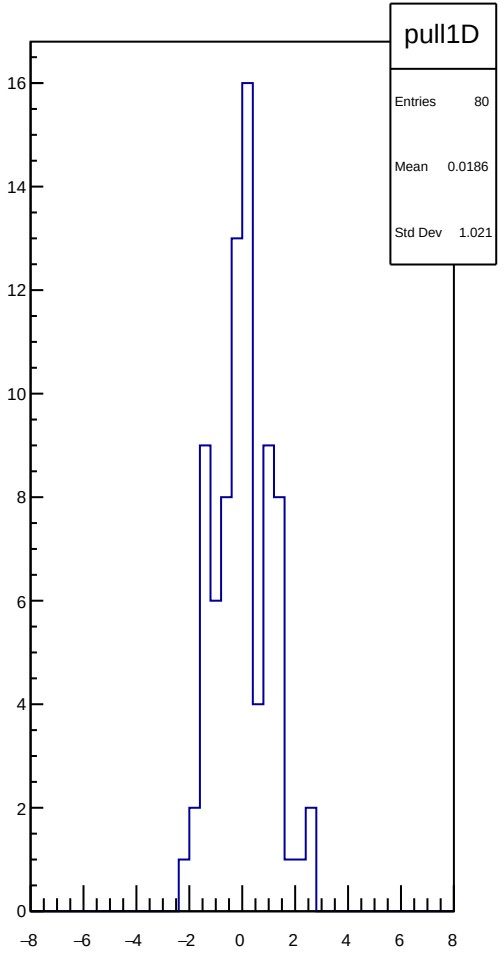

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 118.3 / 79
p0 1.73 ± 0.1086
pull
Entries 80
Mean 22.5
Std Dev 42.1

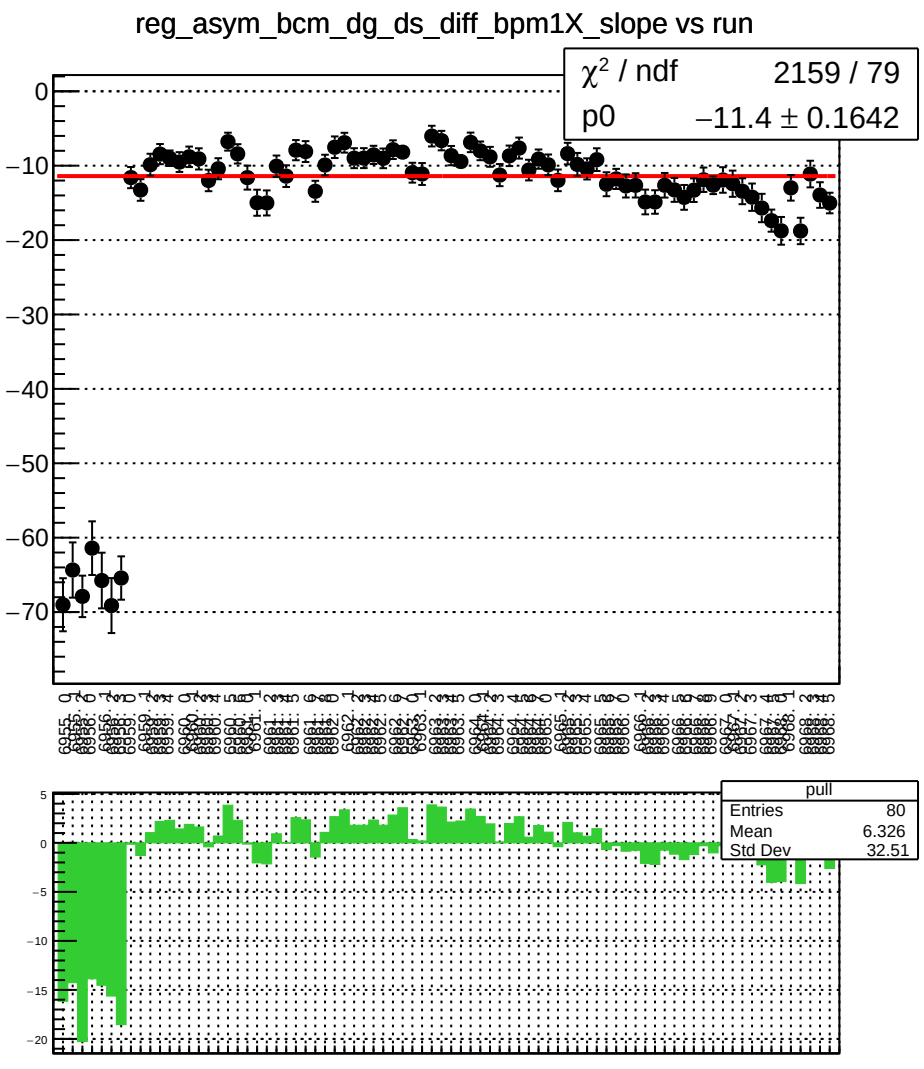

pull1D
Entries 80
Mean 0.1507
Std Dev 1.207

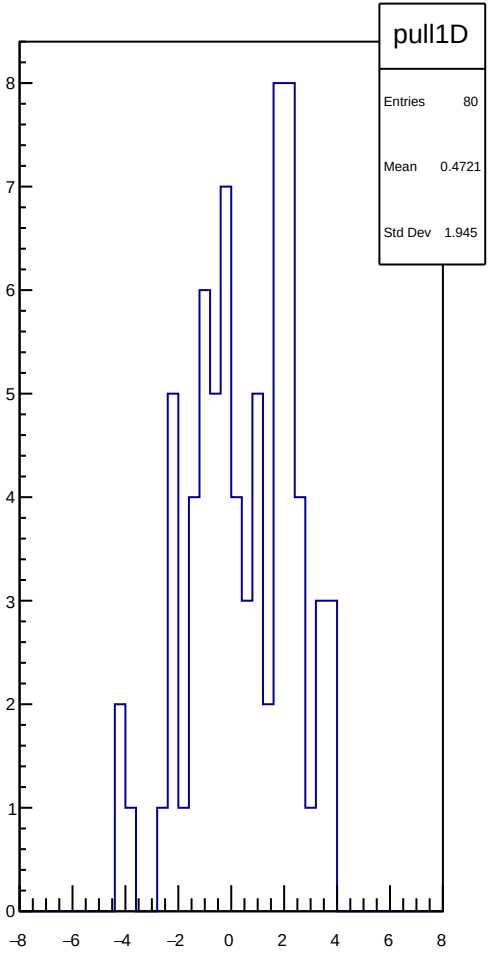

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 2106 / 79
p0 9.627 ± 0.1463
pull
Entries 80
Mean 7
Std Dev 32.65
pull1D
Entries 80
Mean −0.4415
Std Dev 1.909

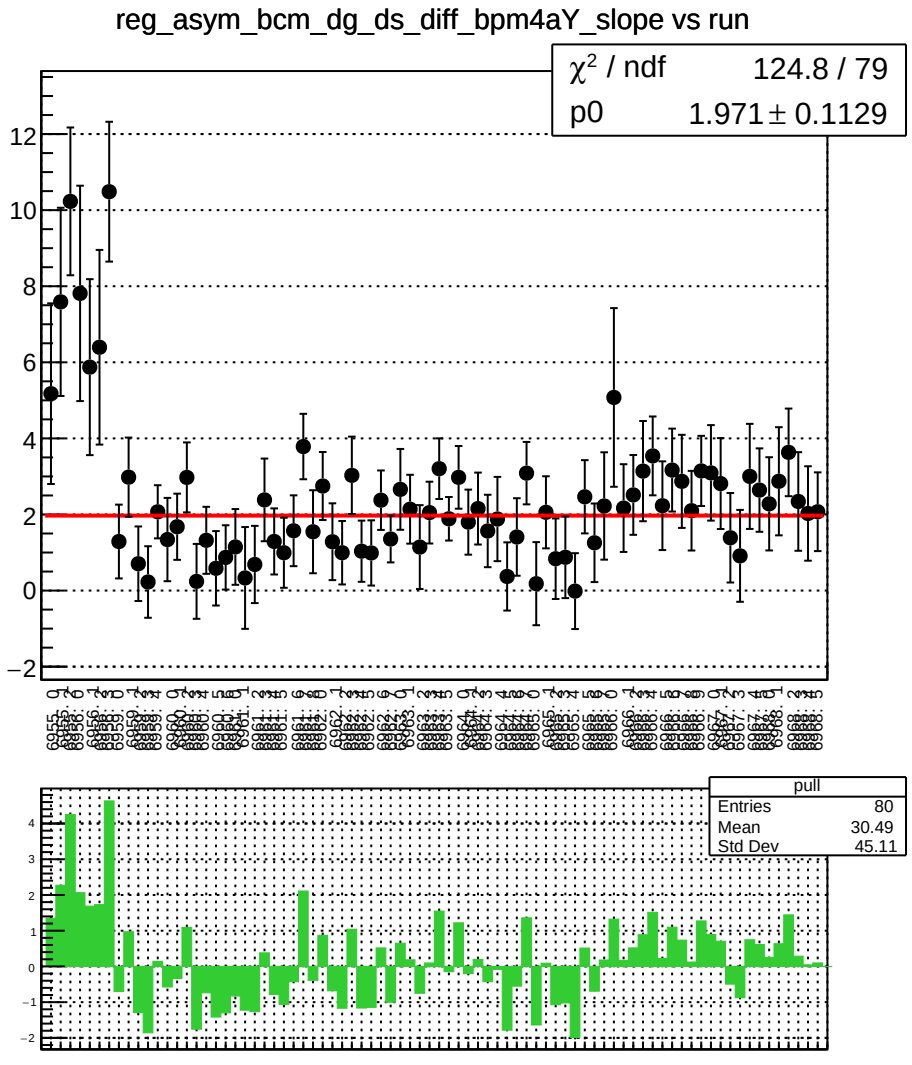

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 118.7 / 79
p0 −2.533 ± 0.1233
pull
Entries 80
Mean −2.249
Std Dev 14.82
pull1D
Entries 80
Mean −0.1387
Std Dev 1.21

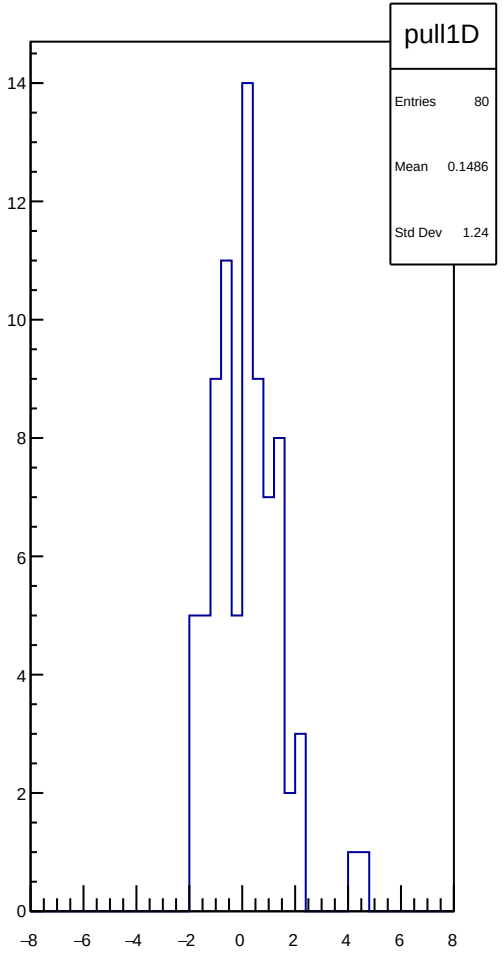

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 83.35 / 79
p0 0.0244 ± 0.004776
pull
Entries 80
Mean 394.4
Std Dev 350.9

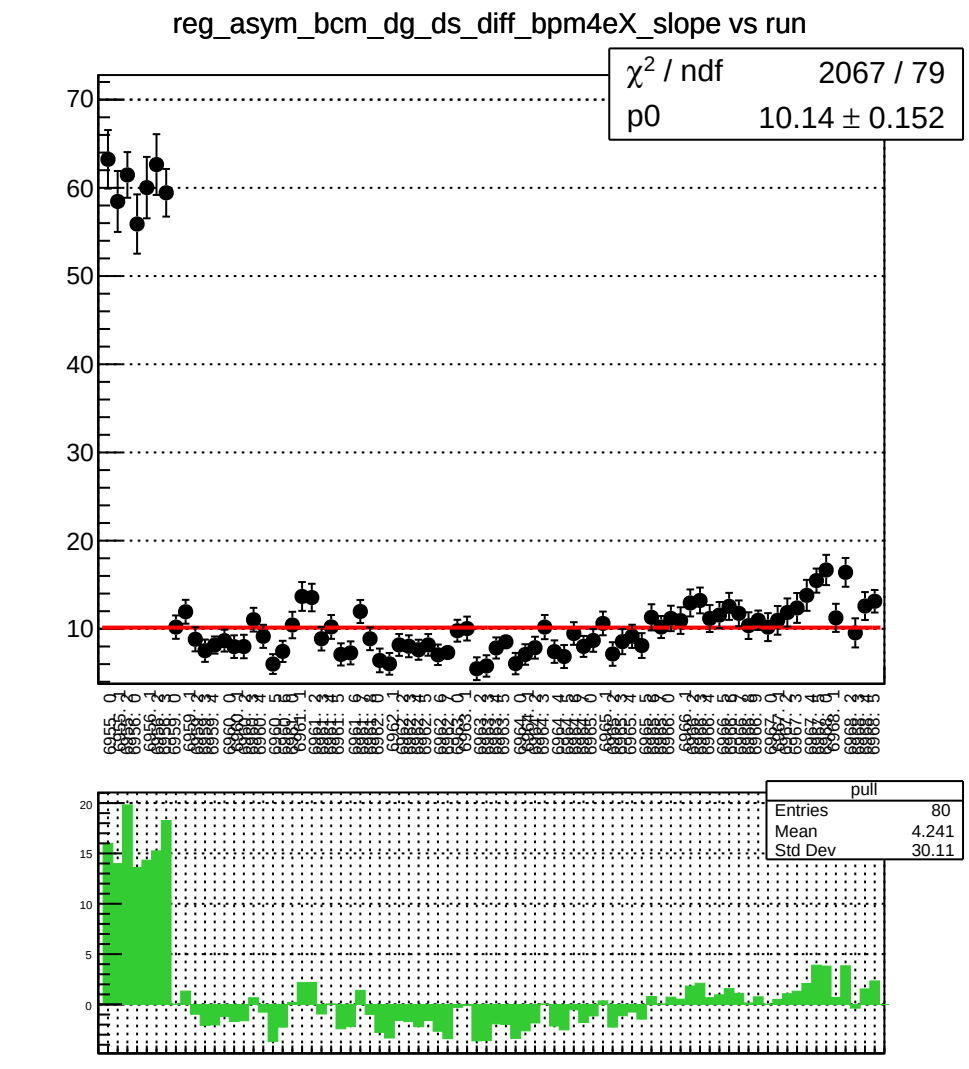

pull1D
Entries 80
Mean 0.0186
Std Dev 1.021

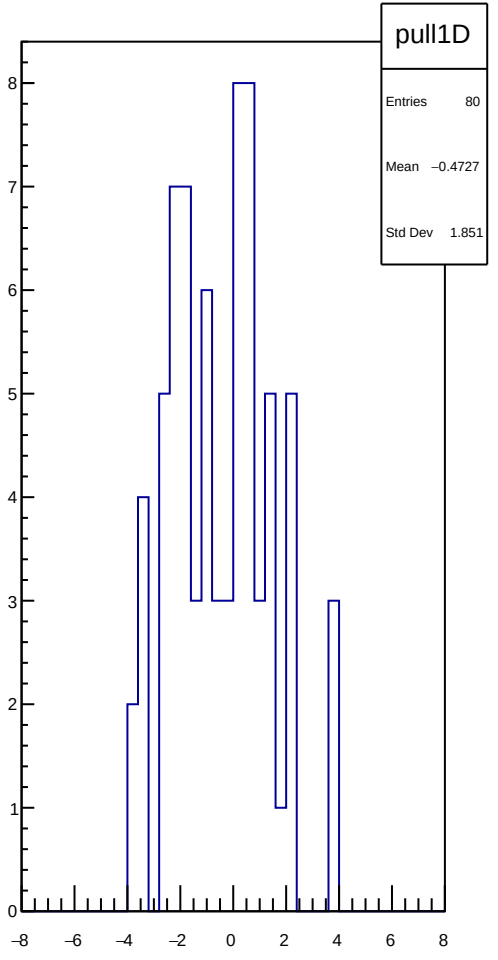

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 2159 / 79
p0 −11.4 ± 0.1642
pull
Entries 80
Mean 6.326
Std Dev 32.51

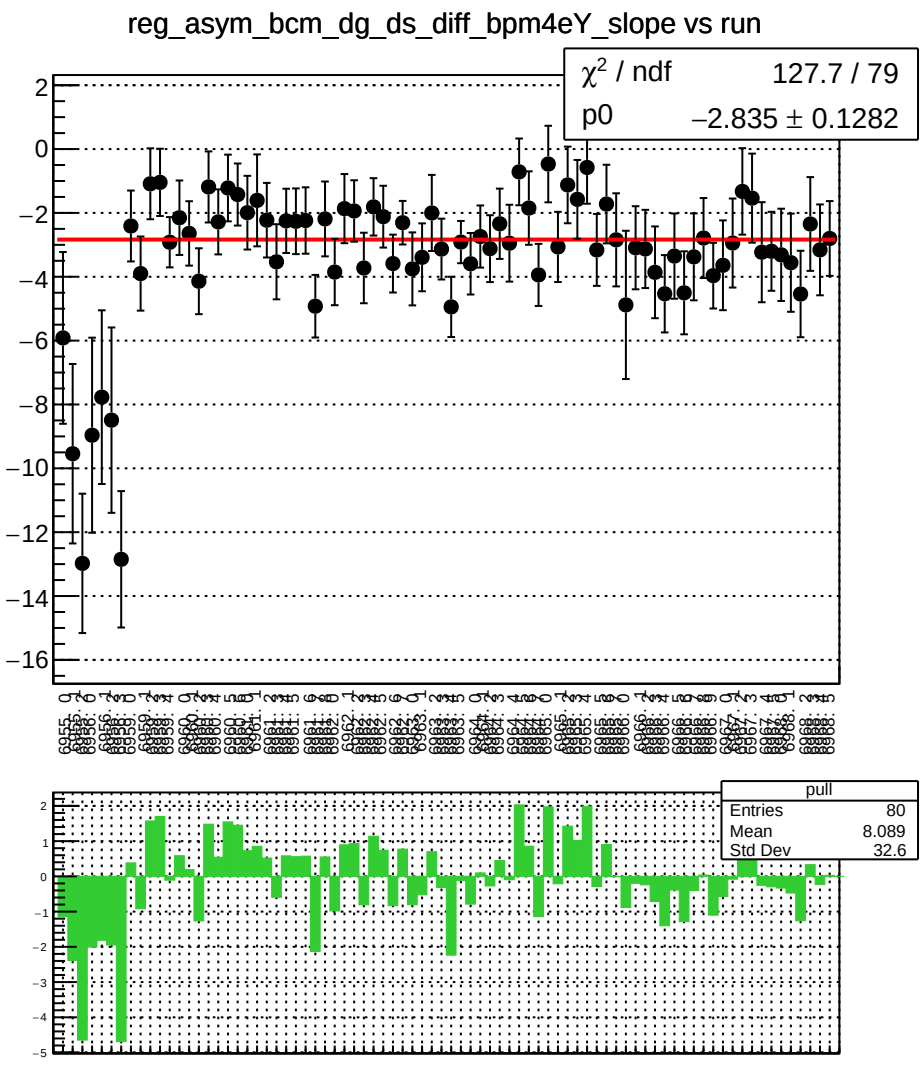

pull1D
Entries 80
Mean 0.4721
Std Dev 1.945

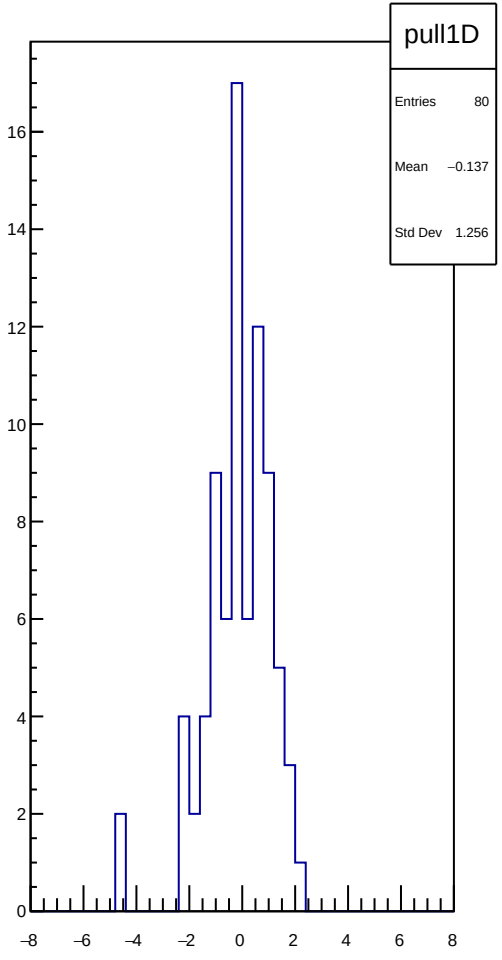

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 124.8 / 79
p0 1.971 ± 0.1129
pull
Entries 80
Mean 30.49
Std Dev 45.11

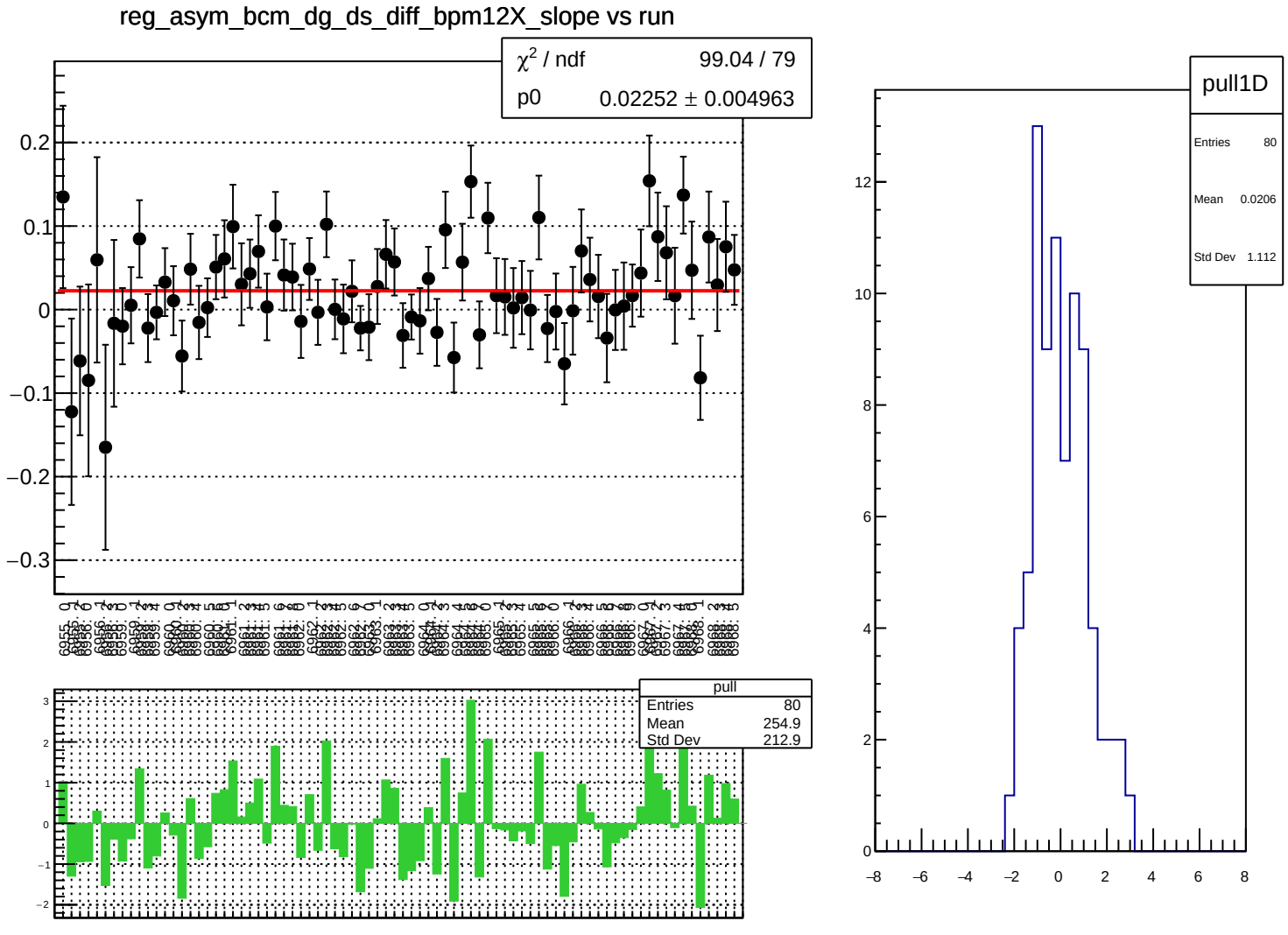

pull1D
Entries 80
Mean 0.1486
Std Dev 1.24

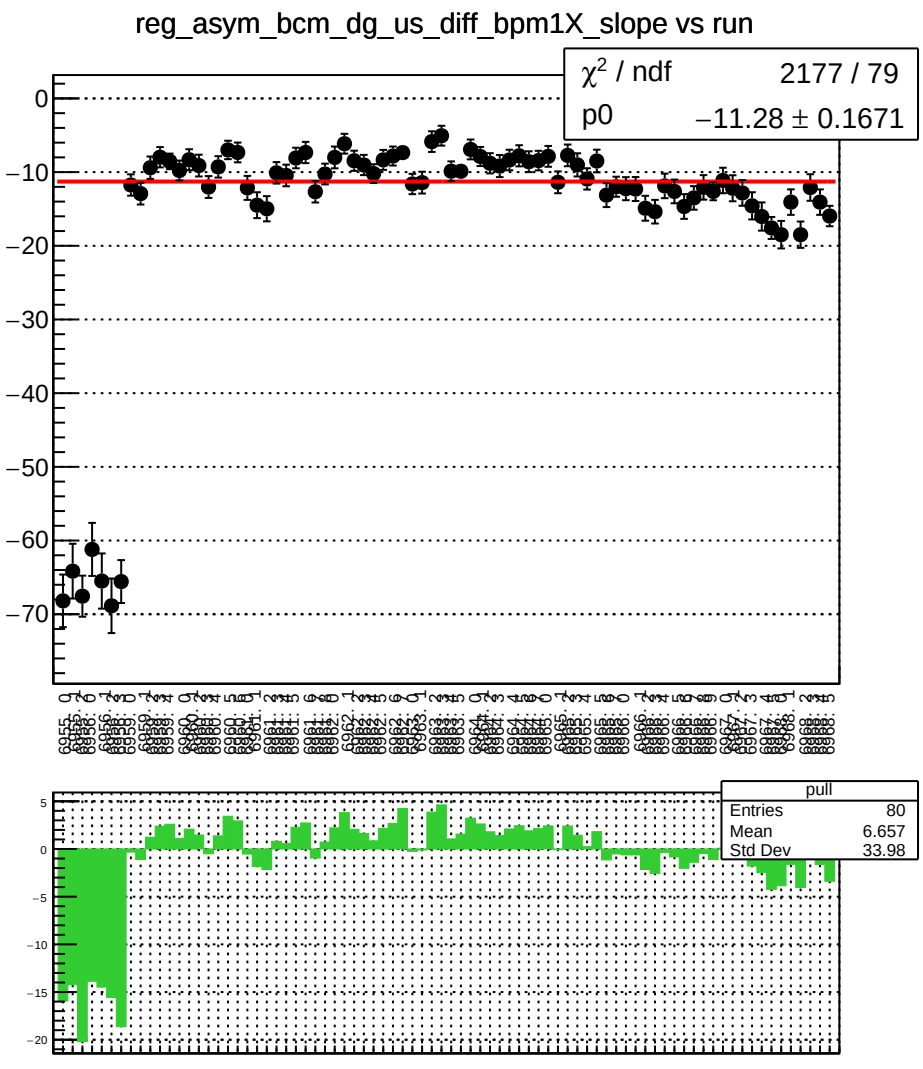

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 2067 / 79
p0 10.14 ± 0.152
pull
Entries 80
Mean 4.241
Std Dev 30.11

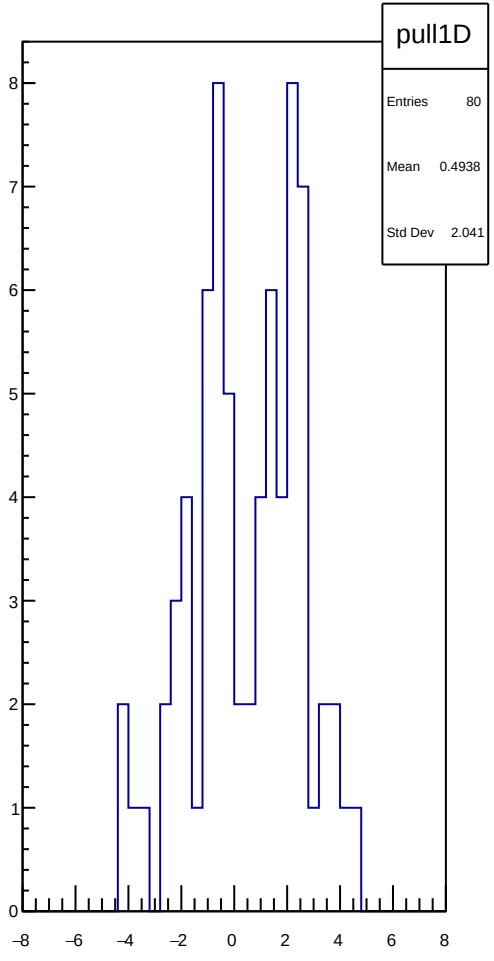

pull1D
Entries 80
Mean −0.4727
Std Dev 1.851

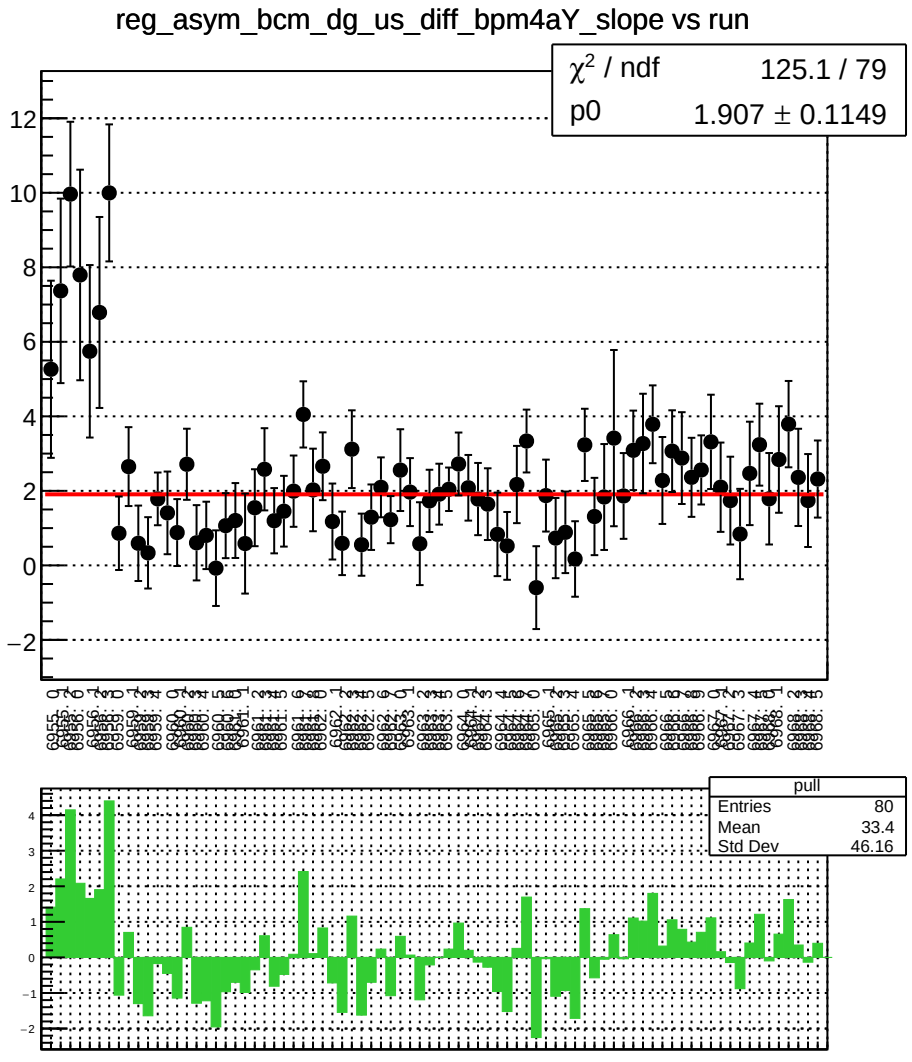

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 127.7 / 79
p0 −2.835 ± 0.1282
pull
Entries 80
Mean 8.089
Std Dev 32.6

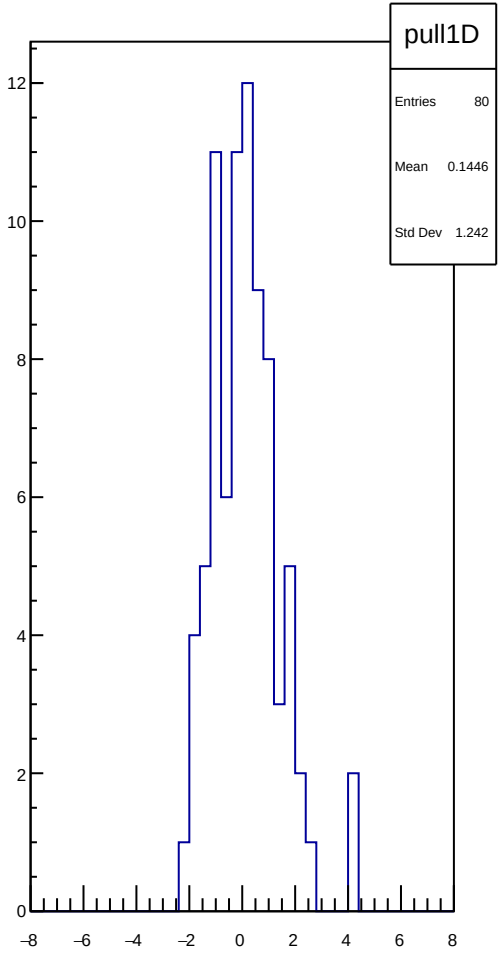

pull1D
Entries 80
Mean −0.137
Std Dev 1.256

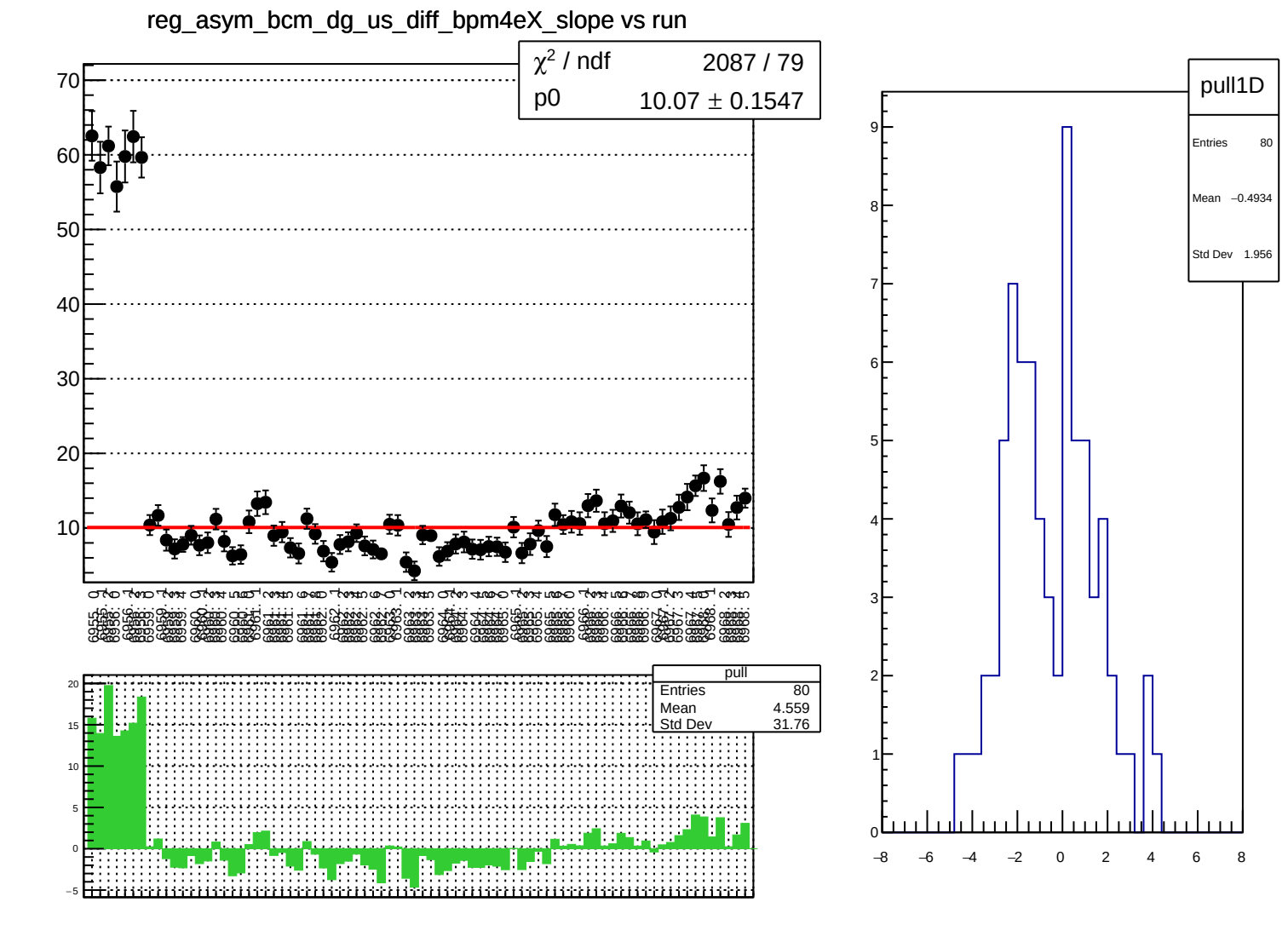

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 99.04 / 79
p0 0.02252 ± 0.004963
pull
Entries 80
Mean 254.9
Std Dev 212.9
pull1D
Entries 80
Mean 0.0206
Std Dev 1.112

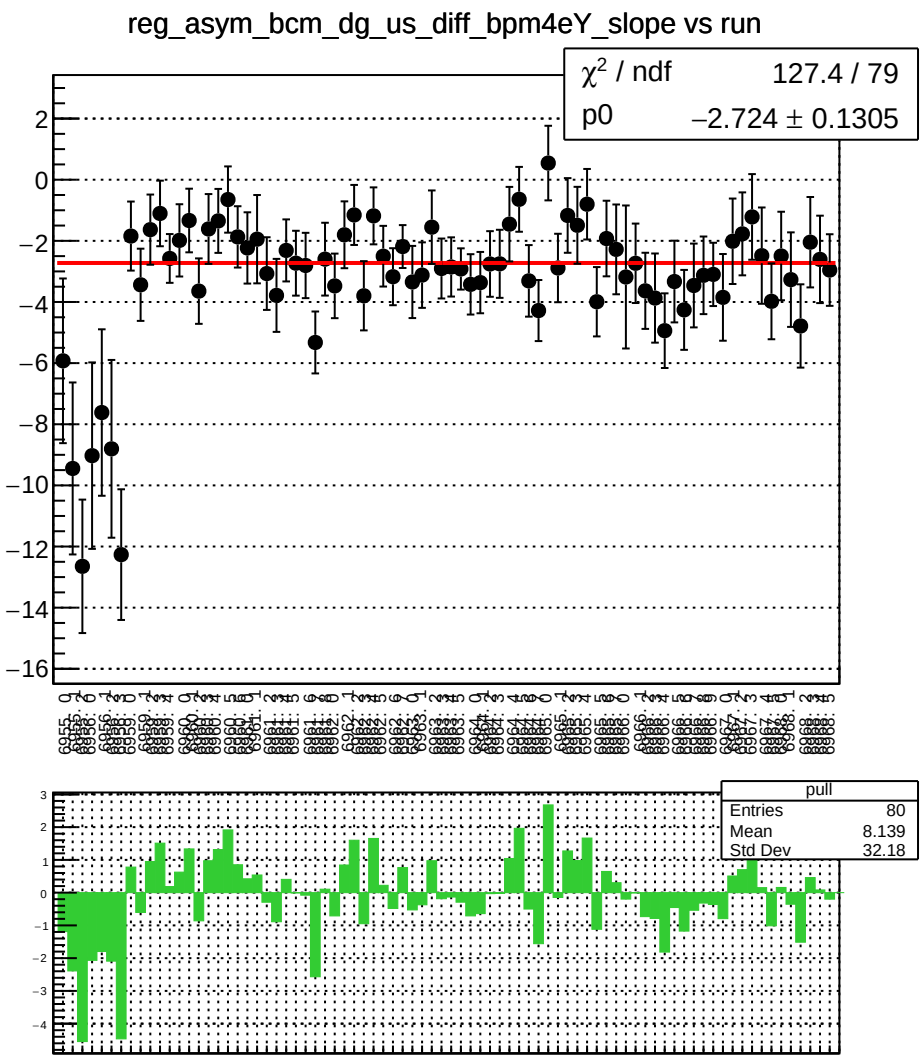

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 2177 / 79
p0 −11.28 ± 0.1671
pull
Entries 80
Mean 6.657
Std Dev 33.98

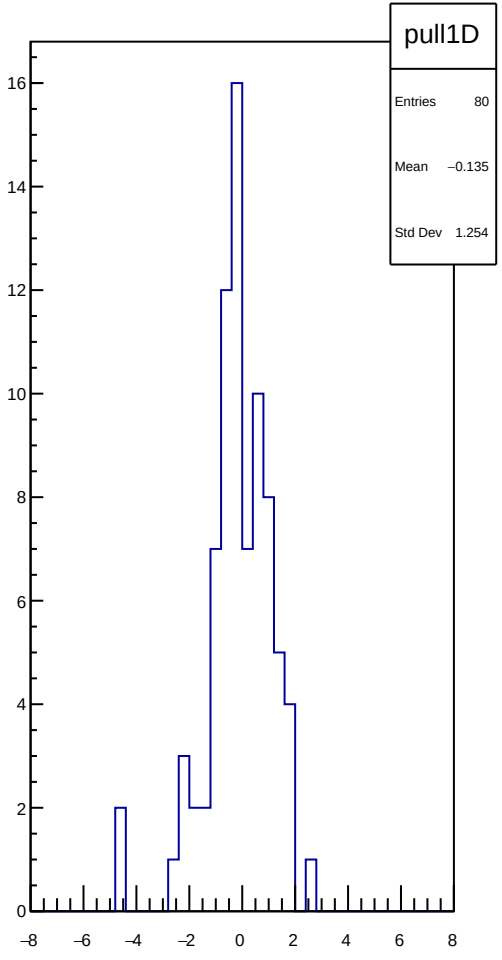

pull1D
Entries 80
Mean 0.4938
Std Dev 2.041

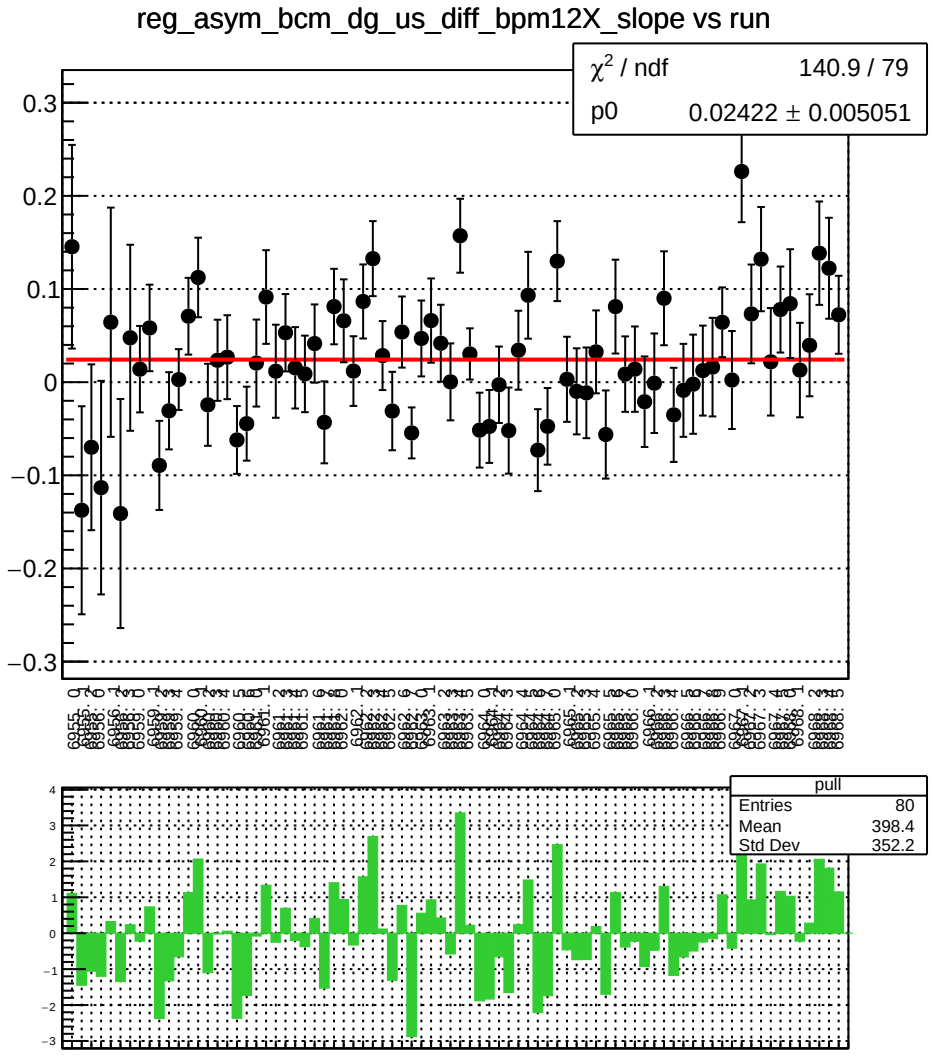

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 125.1 / 79
p0 1.907 ± 0.1149
pull
Entries 80
Mean 33.4
Std Dev 46.16

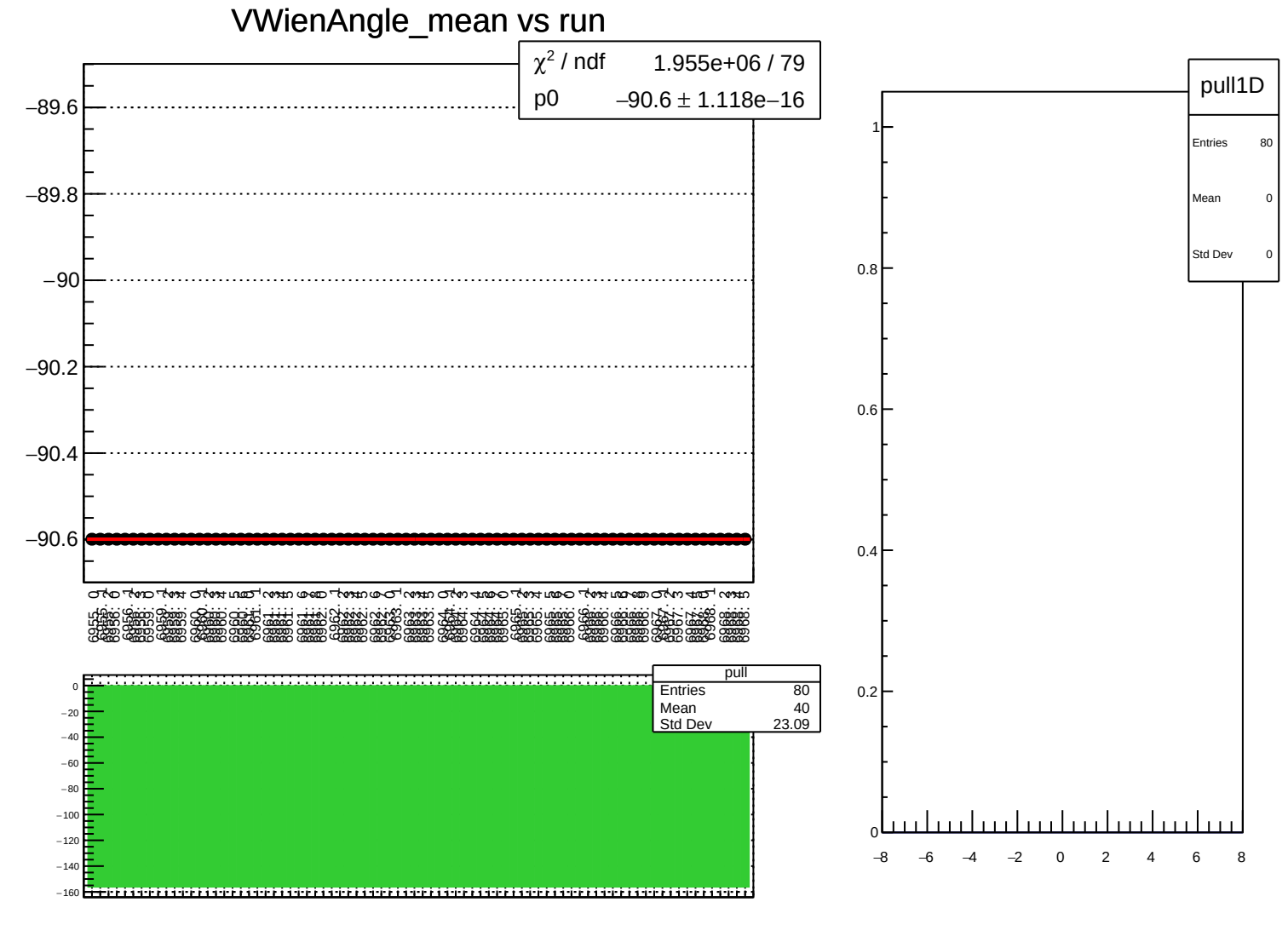

pull1D
Entries 80
Mean 0.1446
Std Dev 1.242

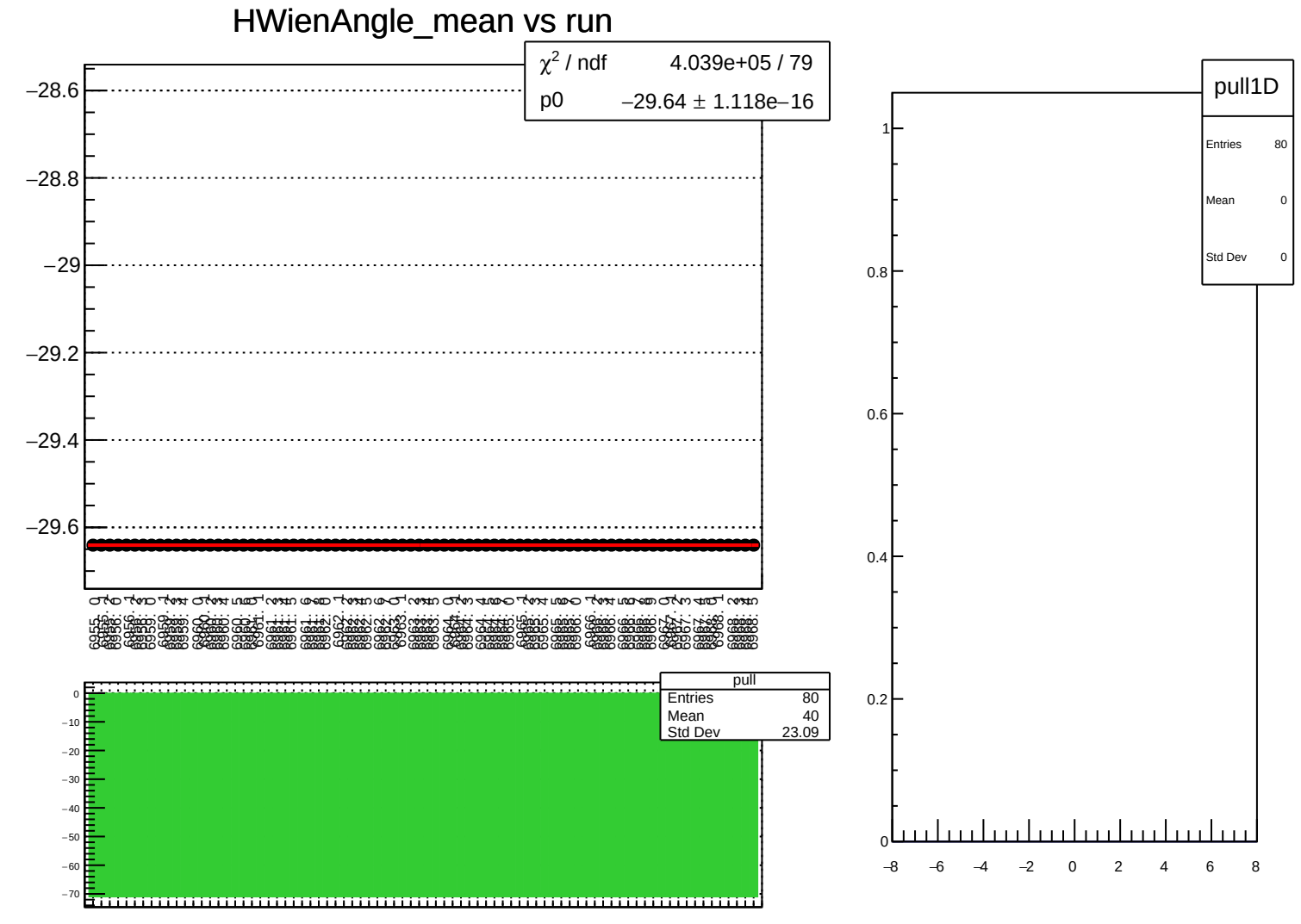

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 2087 / 79
p0 10.07 ± 0.1547
pull
Entries 80
Mean 4.559
Std Dev 31.76
pull1D
Entries 80
Mean −0.4934
Std Dev 1.956

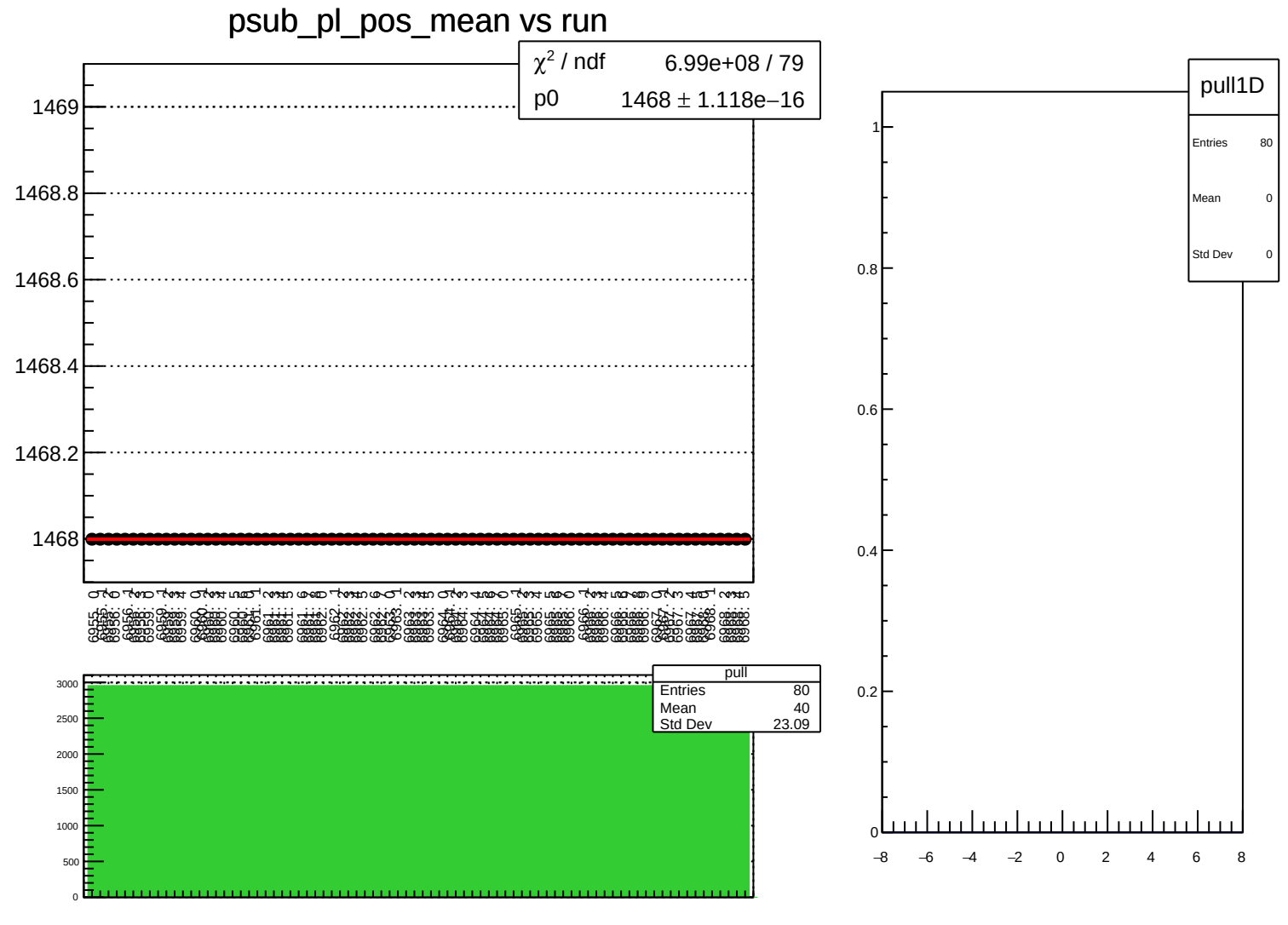

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 127.4 / 79
p0 −2.724 ± 0.1305
pull
Entries 80
Mean 8.139
Std Dev 32.18

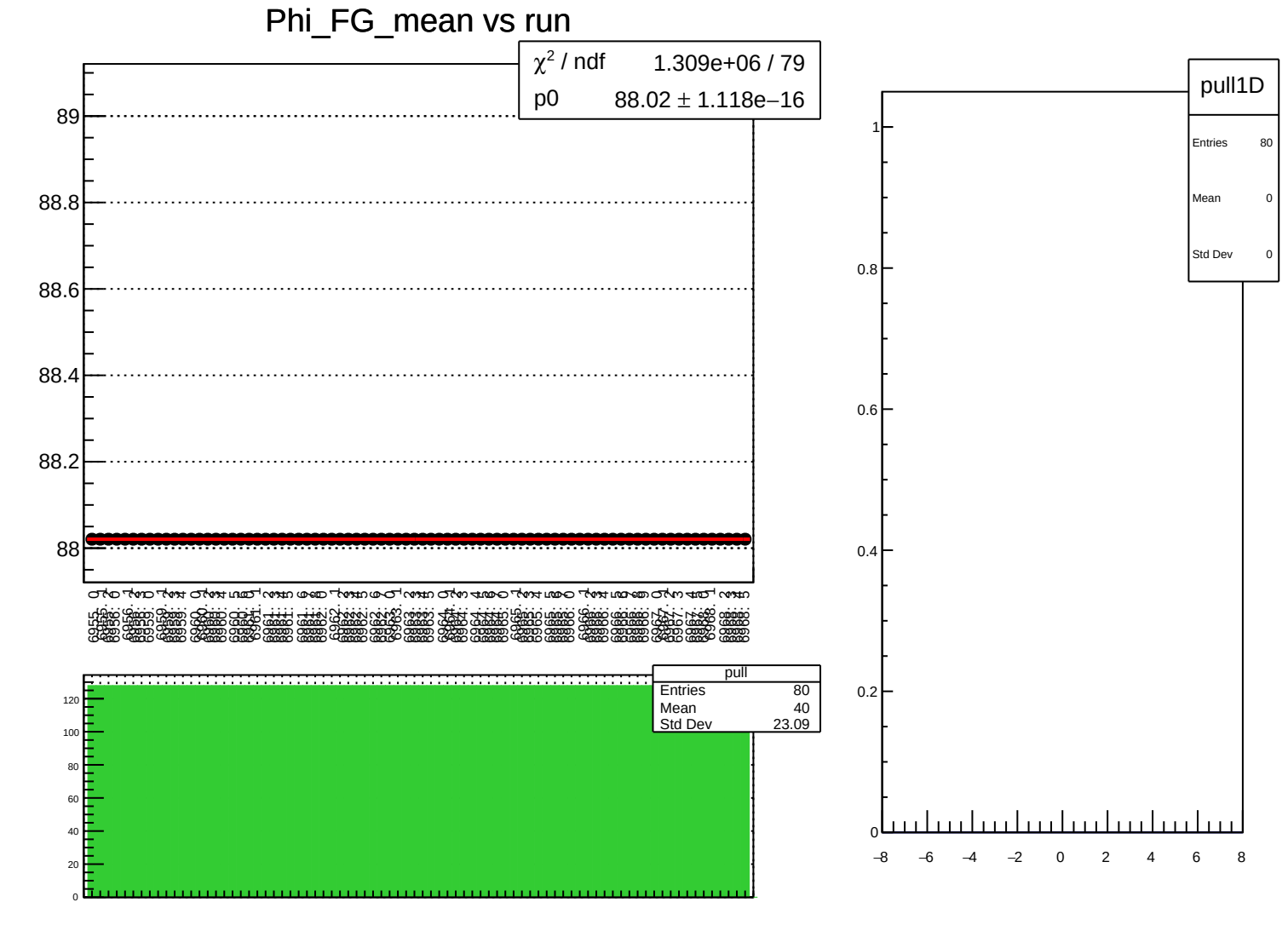

pull1D
Entries 80
Mean −0.135
Std Dev 1.254

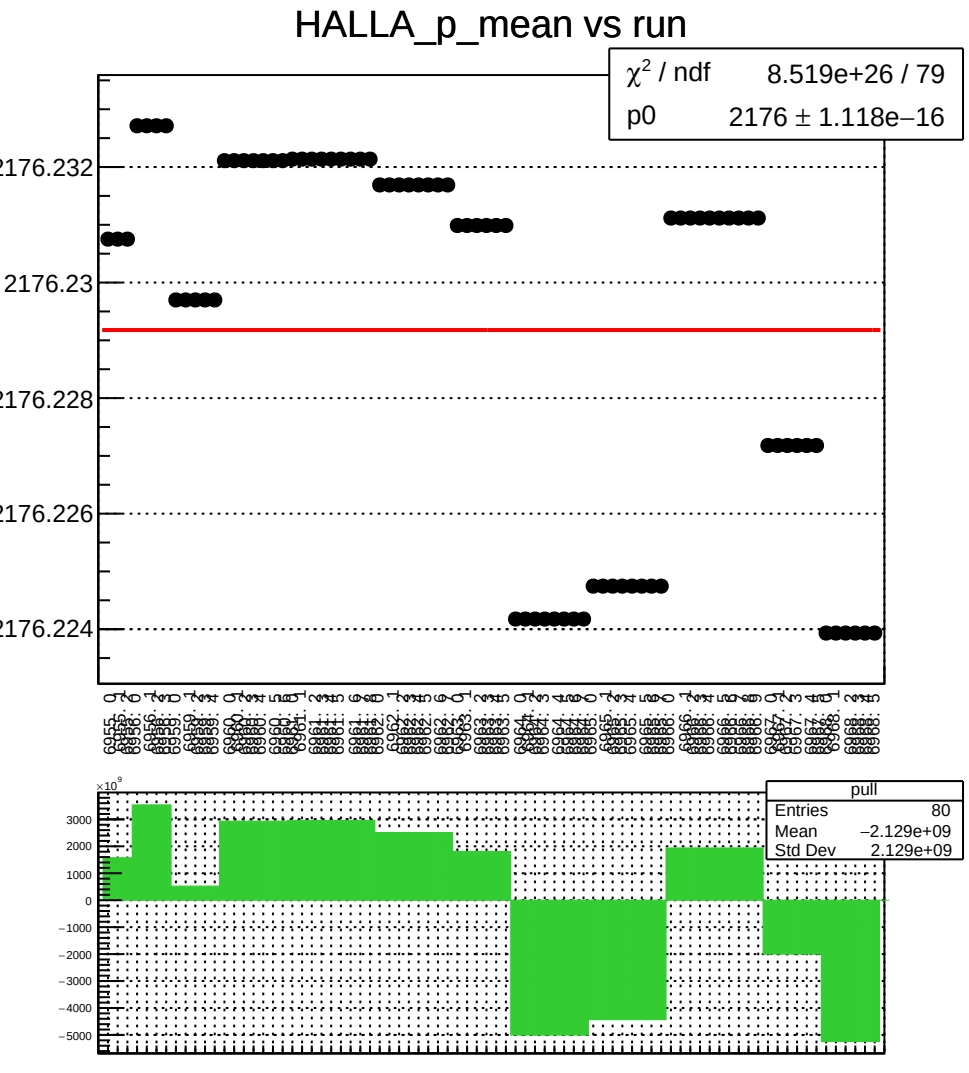

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 140.9 / 79
p0 0.02422 ± 0.005051
pull
Entries 80
Mean 398.4
Std Dev 352.2
pull1D
Entries 80
Mean 0.01991
Std Dev 1.327

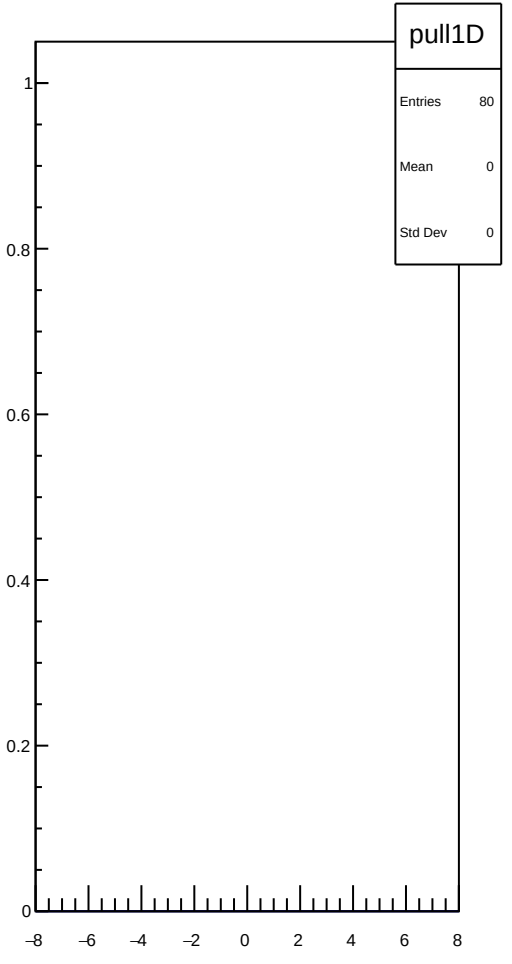

VWienAngle_mean vs run
χ² / ndf 1.955e+06 / 79
p0 −90.6 ± 1.118e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 80
Mean 40
Std Dev 23.09
0
−20
−40
−60
−80
−100
−120
−140
−160
pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

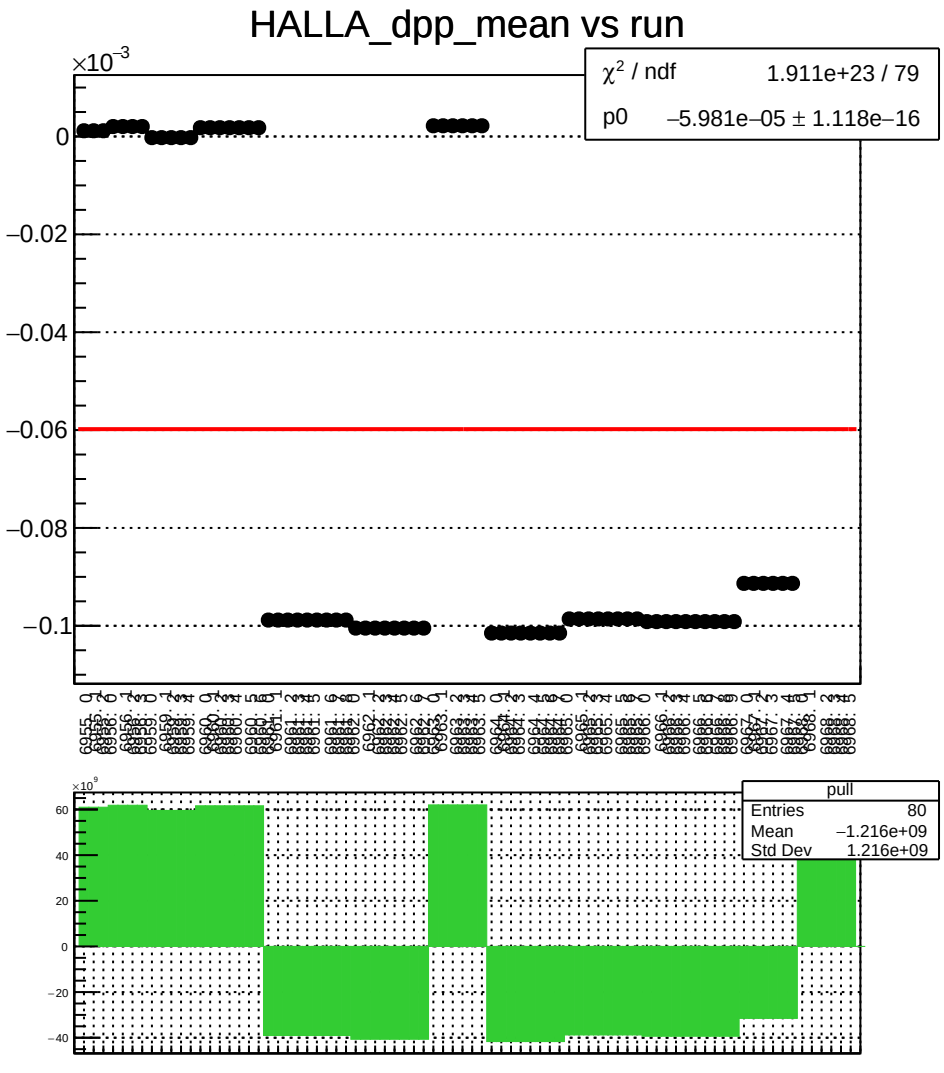

HWienAngle_mean vs run
χ² / ndf 4.039e+05 / 79
p0 −29.64 ± 1.118e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 80
Mean 40
Std Dev 23.09
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

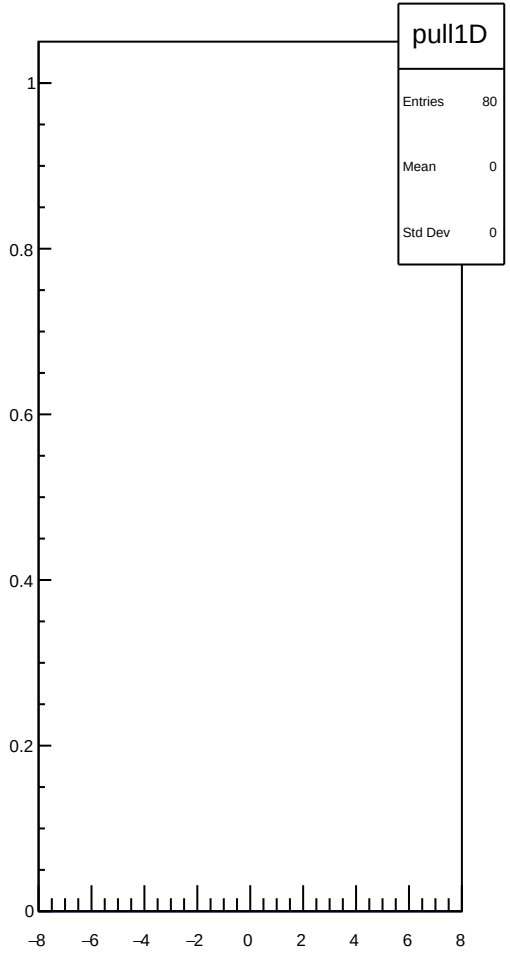

psub_pl_pos_mean vs run
χ² / ndf 6.99e+08 / 79
p0 1468 ± 1.118e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 80
Mean 40
Std Dev 23.09
3000
2500
2000
1500
1000
500
0
pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

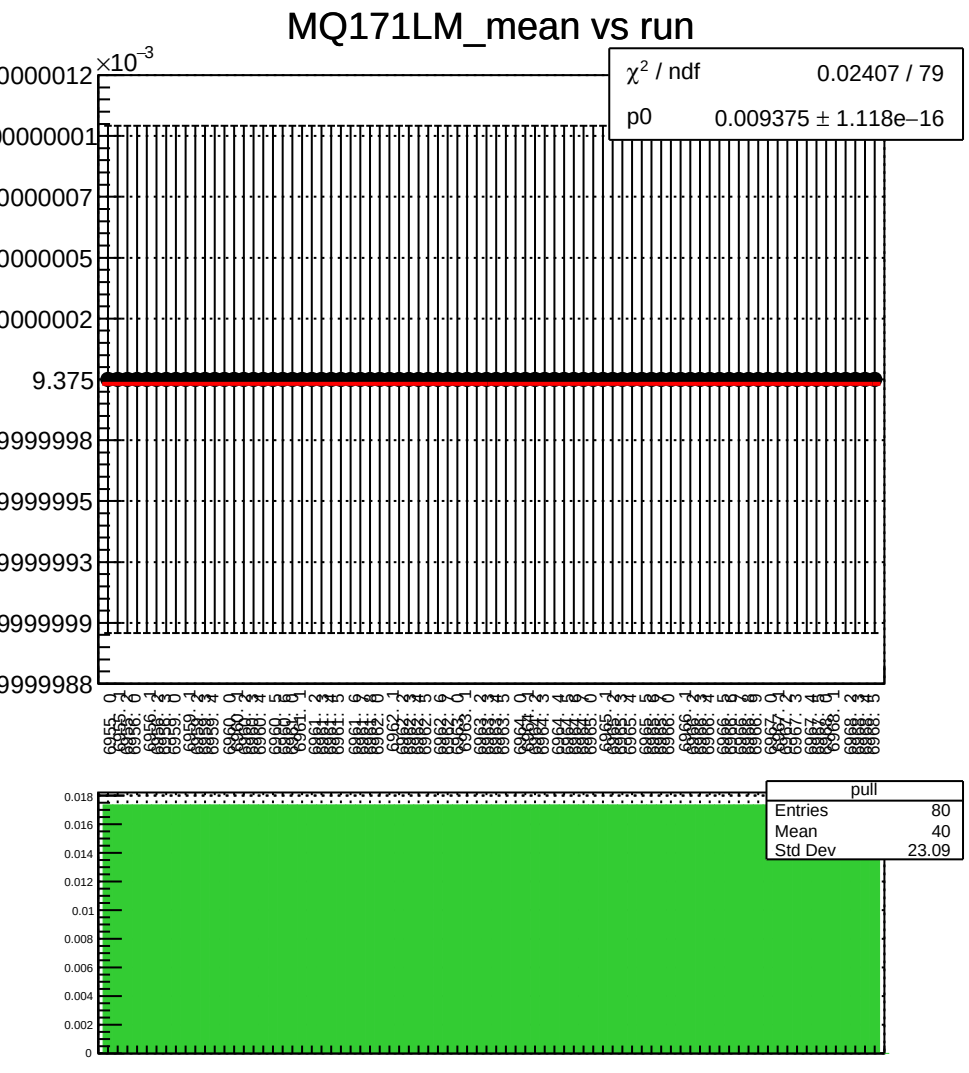

Phi_FG_mean vs run
χ² / ndf 1.309e+06 / 79
p0 88.02 ± 1.118e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 80
Mean 40
Std Dev 23.09
120
100
80
60
40
20
0
pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

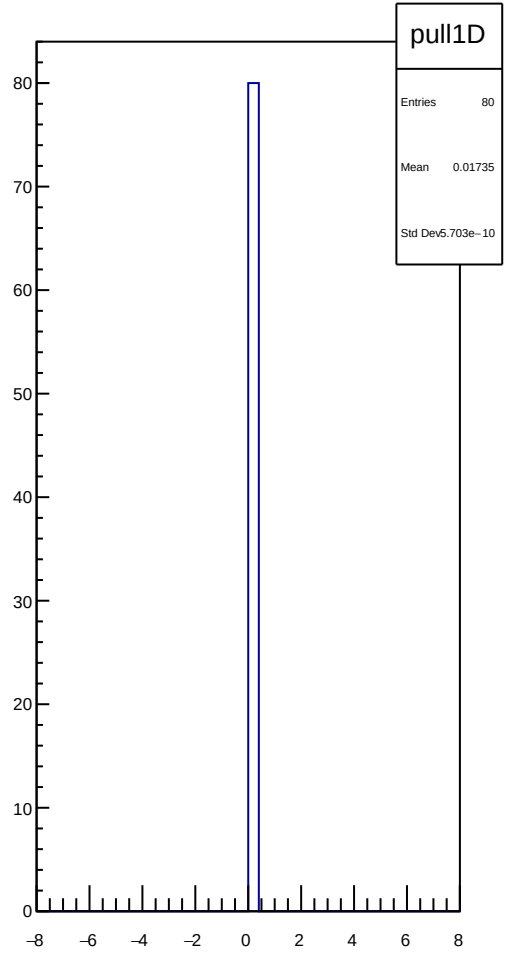

HALLA_p_mean vs run
χ² / ndf 8.519e+26 / 79
p0 2176 ± 1.118e−16
2176.232
2176.23
2176.228
2176.226
2176.224
pull
Entries 80
Mean −2.129e+09
Std Dev 2.129e+09
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000

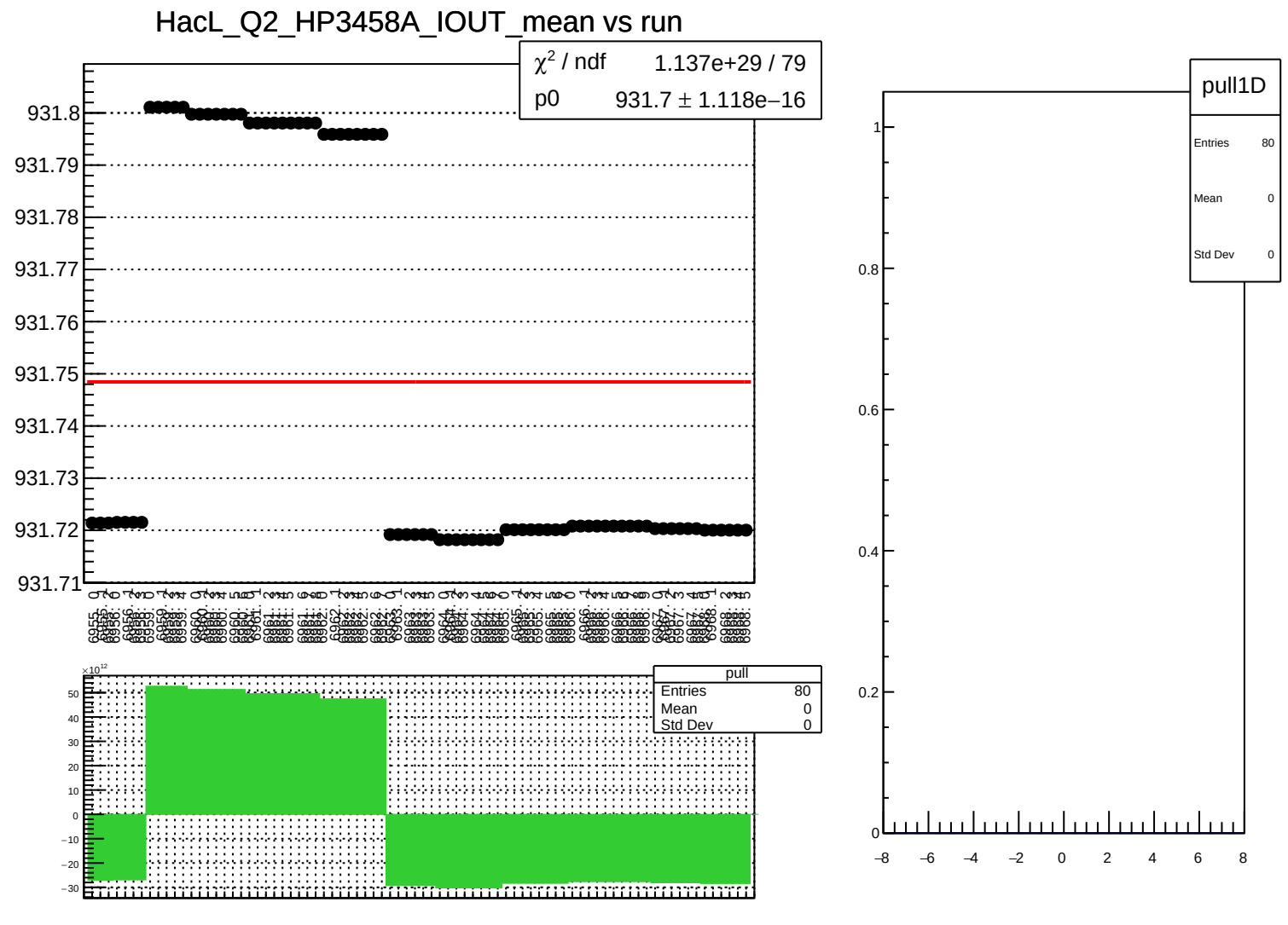

pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

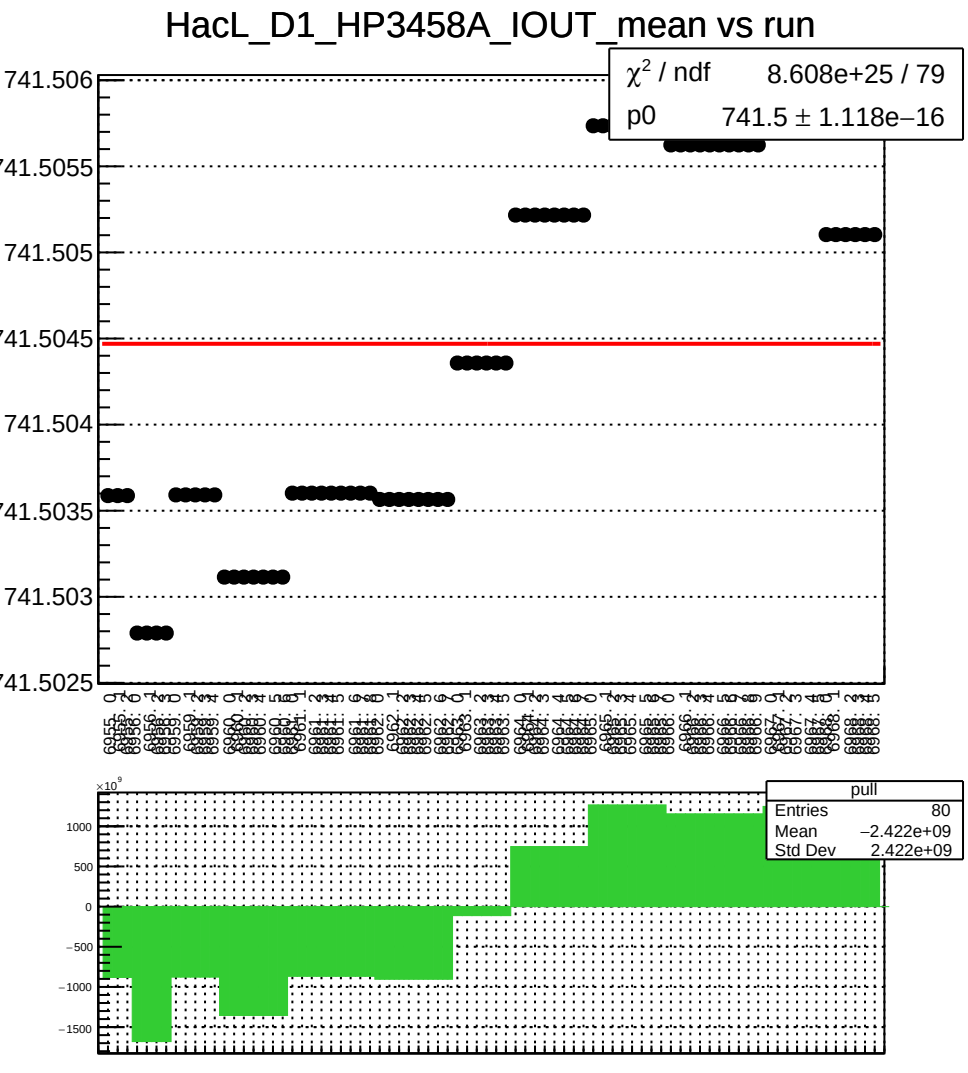

HALLA_dpp_mean vs run
χ² / ndf 1.911e+23 / 79
p0 −5.981e−05 ± 1.118e−16
×10⁻³
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 80
Mean −1.216e+09
Std Dev 1.216e+09
×10⁹
60
40
20
0
−20
−40

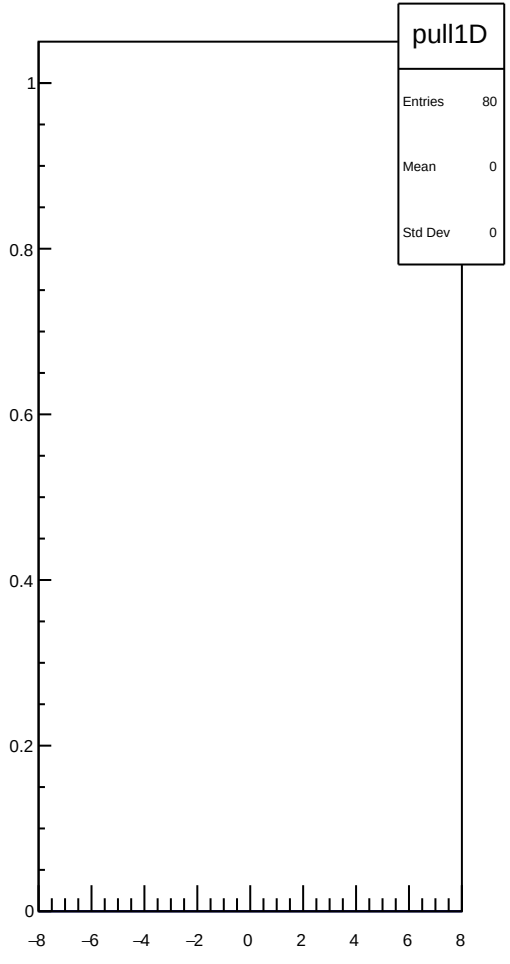

pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

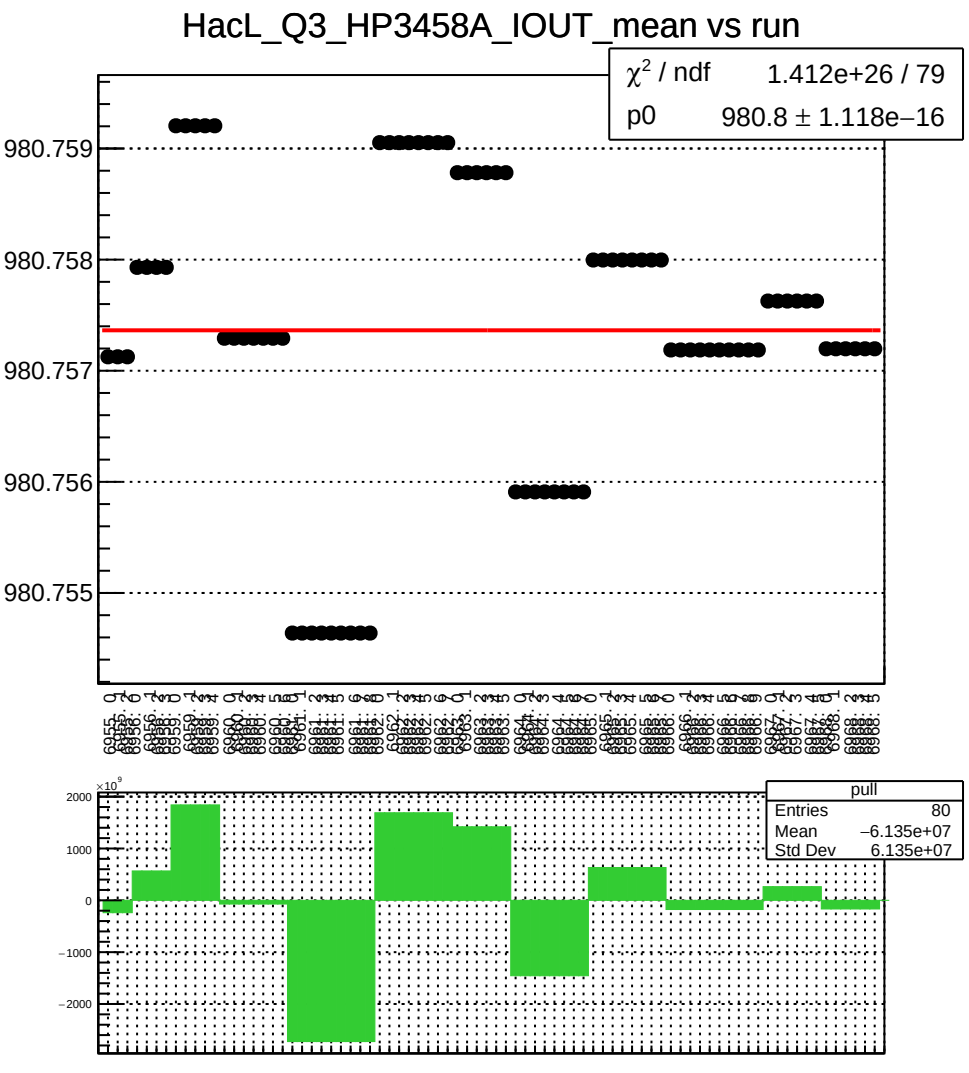

MQ171LM_mean vs run
χ² / ndf 0.02407 / 79
p0 0.009375 ± 1.118e−16
×10⁻³
pull
Entries 80
Mean 40
Std Dev 23.09

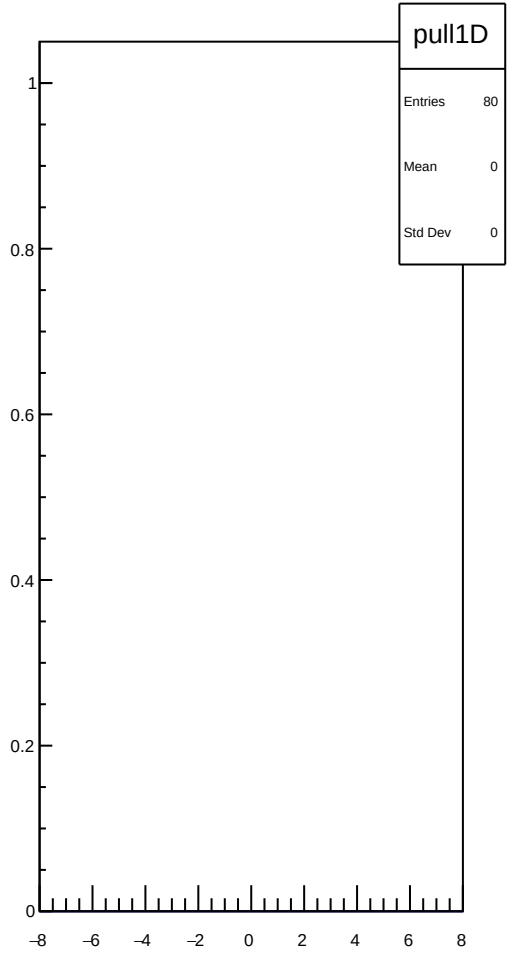

pull1D
Entries 80
Mean 0.01735
Std Dev 5.703e−10

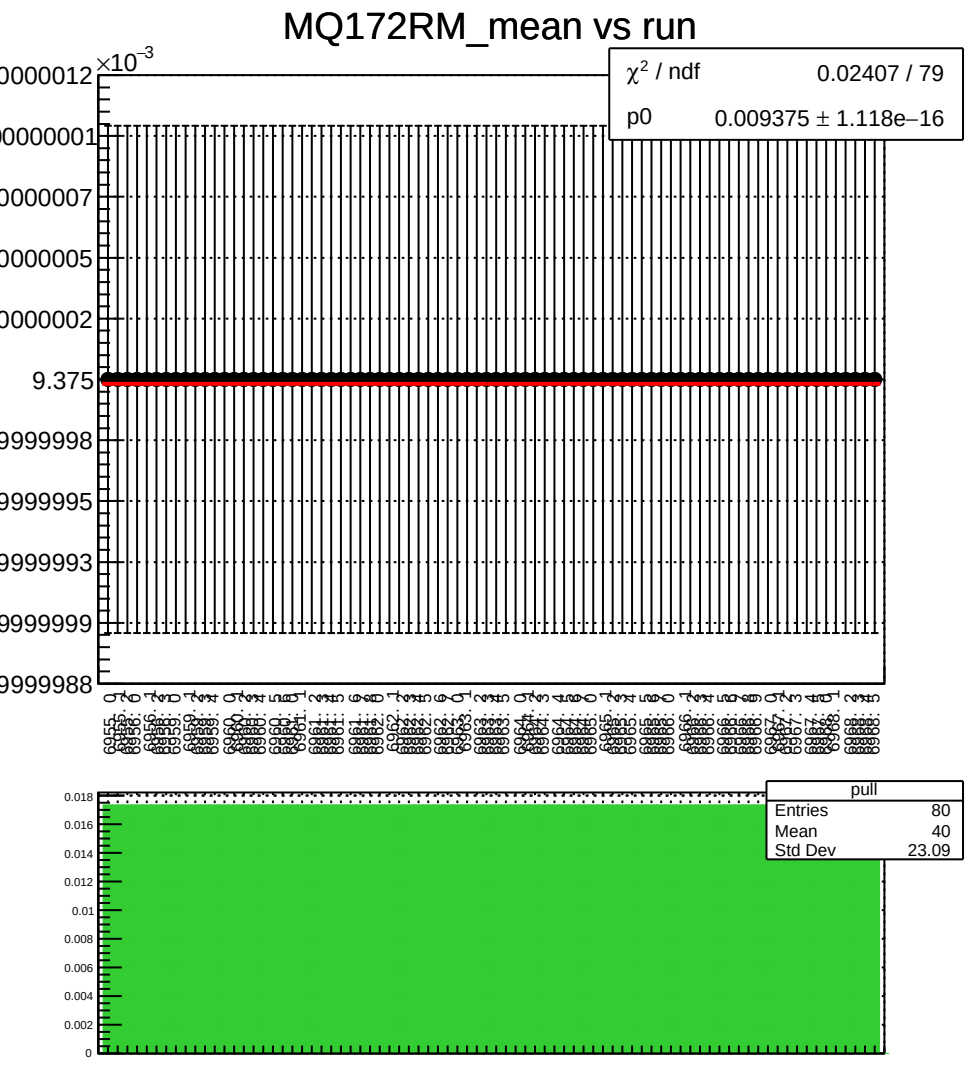

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.137e+29 / 79
p0 931.7 ± 1.118e−16
931.8
931.79
931.78
931.77
931.76
931.75
931.74
931.73
931.72
931.71
pull
Entries 80
Mean 0
Std Dev 0
×10¹²
50
40
30
20
10
0
−10
−20
−30
pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

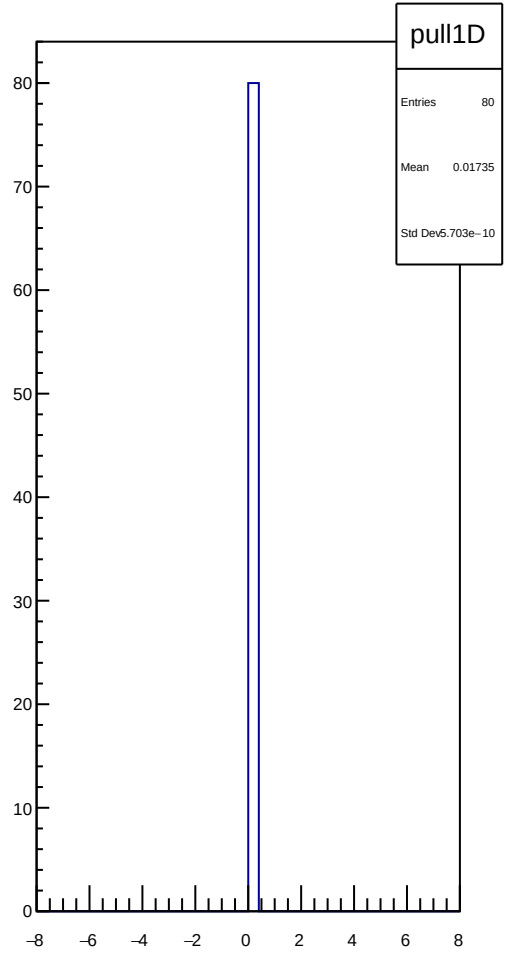

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 8.608e+25 / 79
p0 741.5 ± 1.118e−16
741.506
741.5055
741.505
741.5045
741.504
741.5035
741.503
741.5025
pull
Entries 80
Mean −2.422e+09
Std Dev 2.422e+09
×10⁹
1000
500
0
−500
−1000
−1500

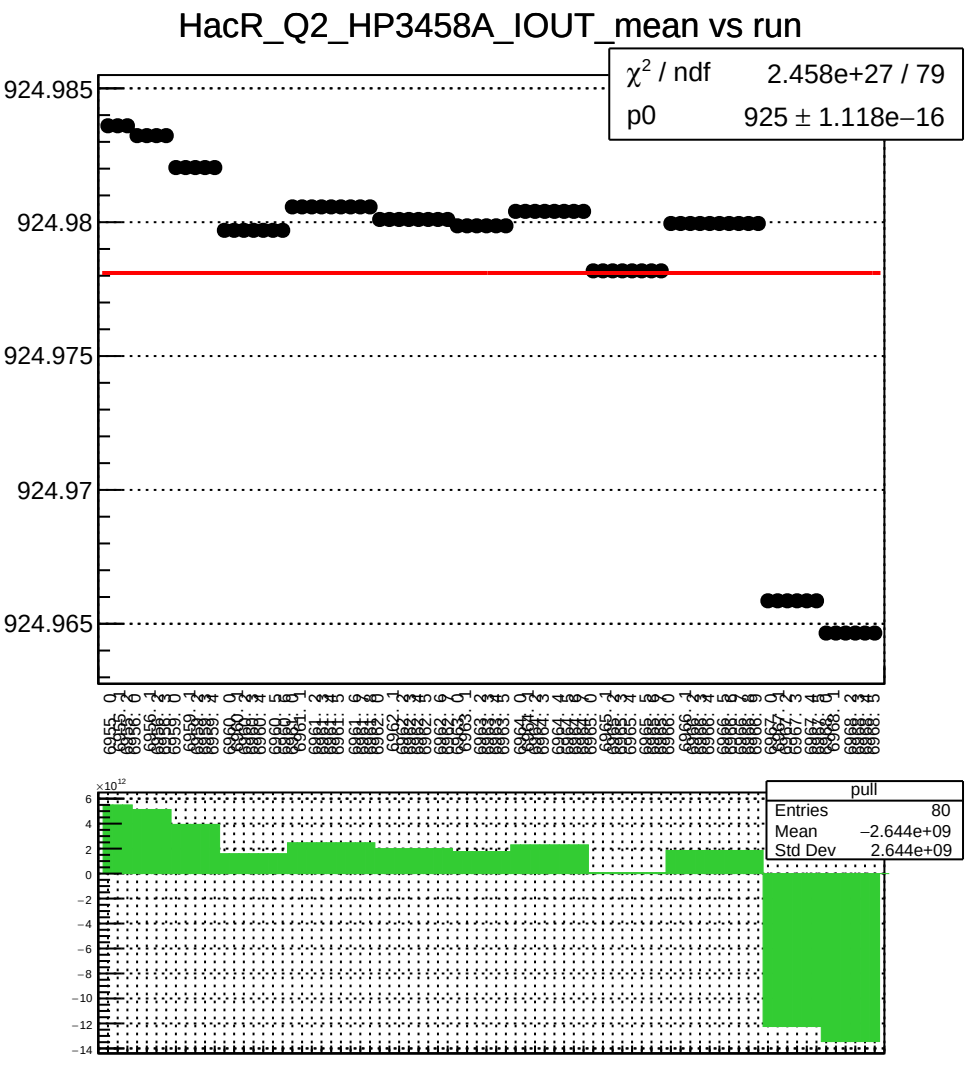

pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

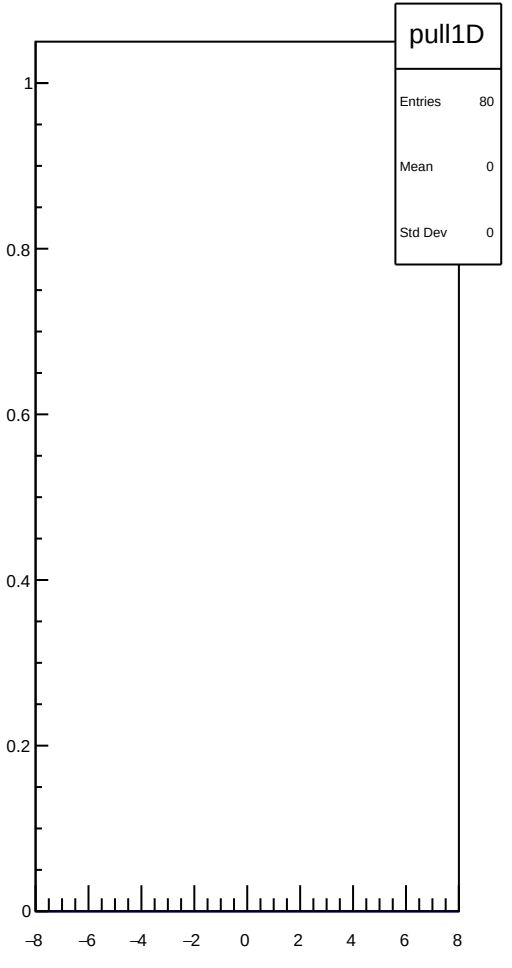

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.412e+26 / 79
p0 980.8 ± 1.118e−16
980.759
980.758
980.757
980.756
980.755
×10⁹
2000
1000
0
−1000
−2000
pull
Entries 80
Mean −6.135e+07
Std Dev 6.135e+07

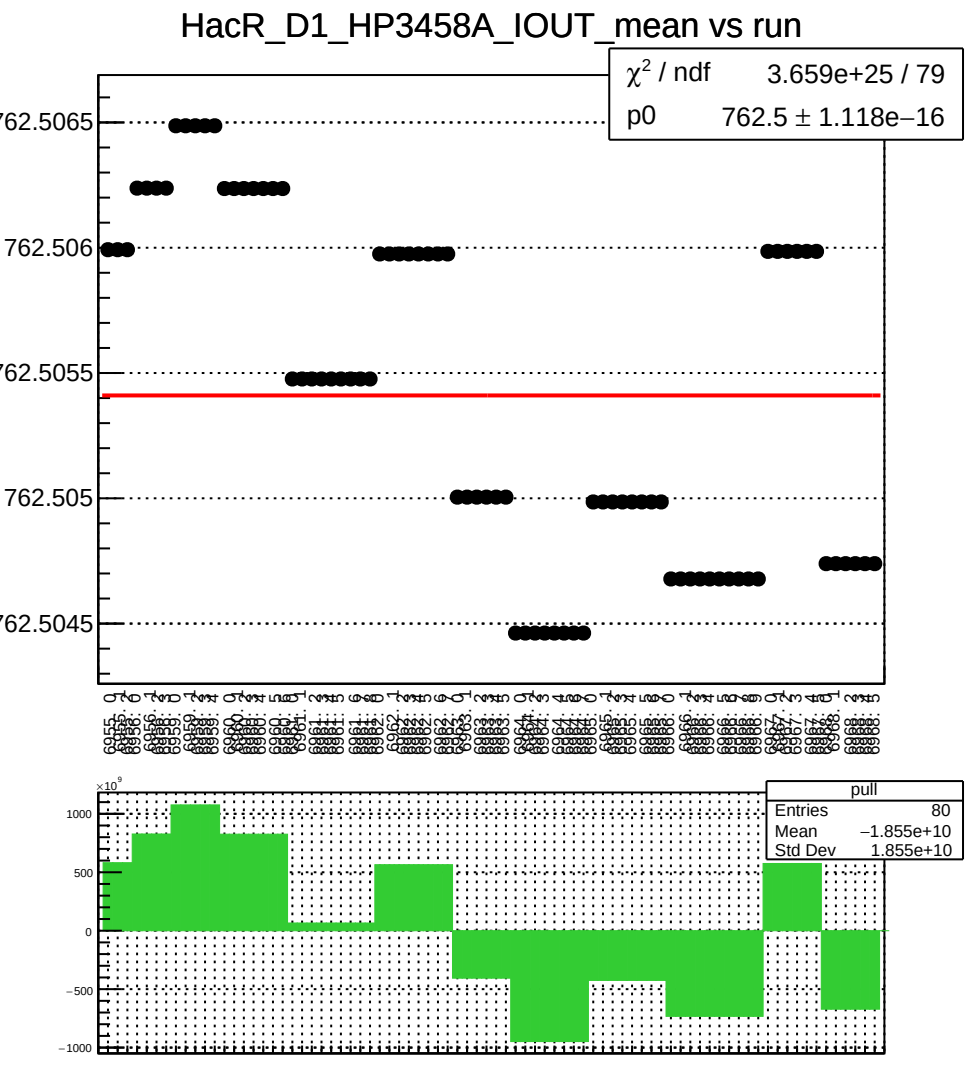

pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

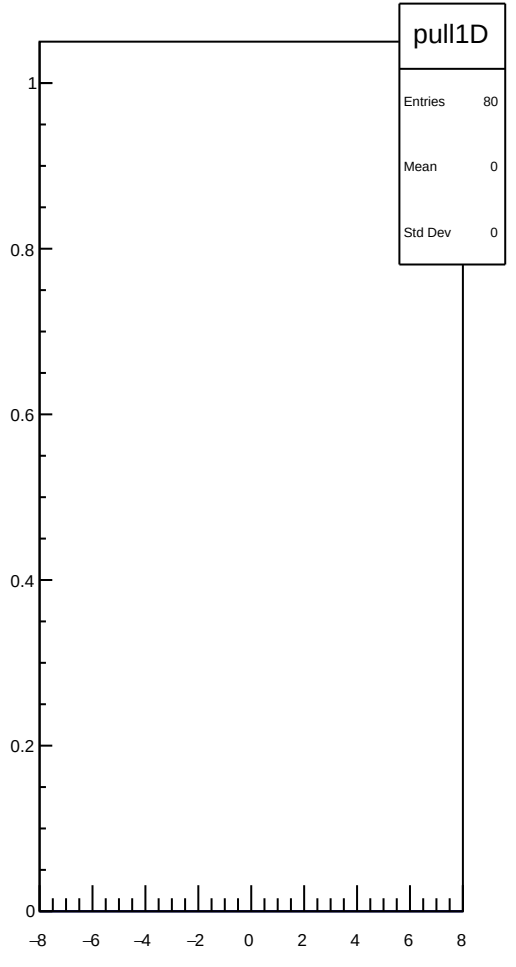

MQ172RM_mean vs run
χ² / ndf 0.02407 / 79
p0 0.009375 ± 1.118e−16
×10⁻³
pull
Entries 80
Mean 40
Std Dev 23.09

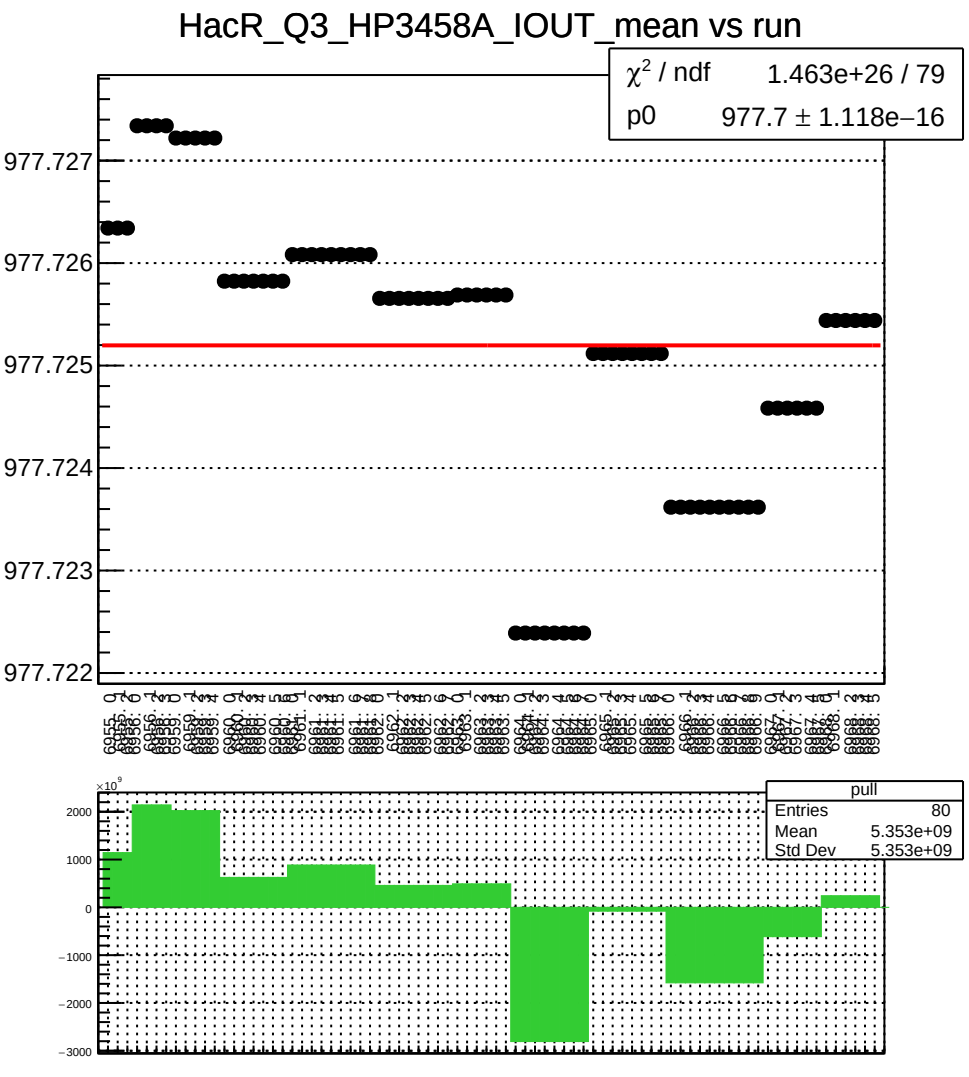

pull1D
Entries 80
Mean 0.01735
Std Dev 5.703e−10

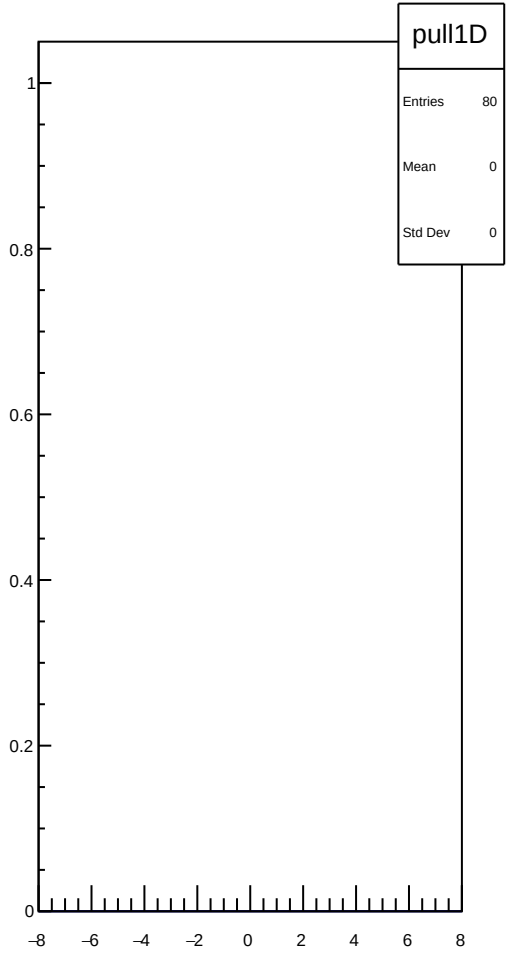

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.458e+27 / 79
p0 925 ± 1.118e−16
924.985
924.98
924.975
924.97
924.965
pull
Entries 80
Mean −2.644e+09
Std Dev 2.644e+09
×10¹²

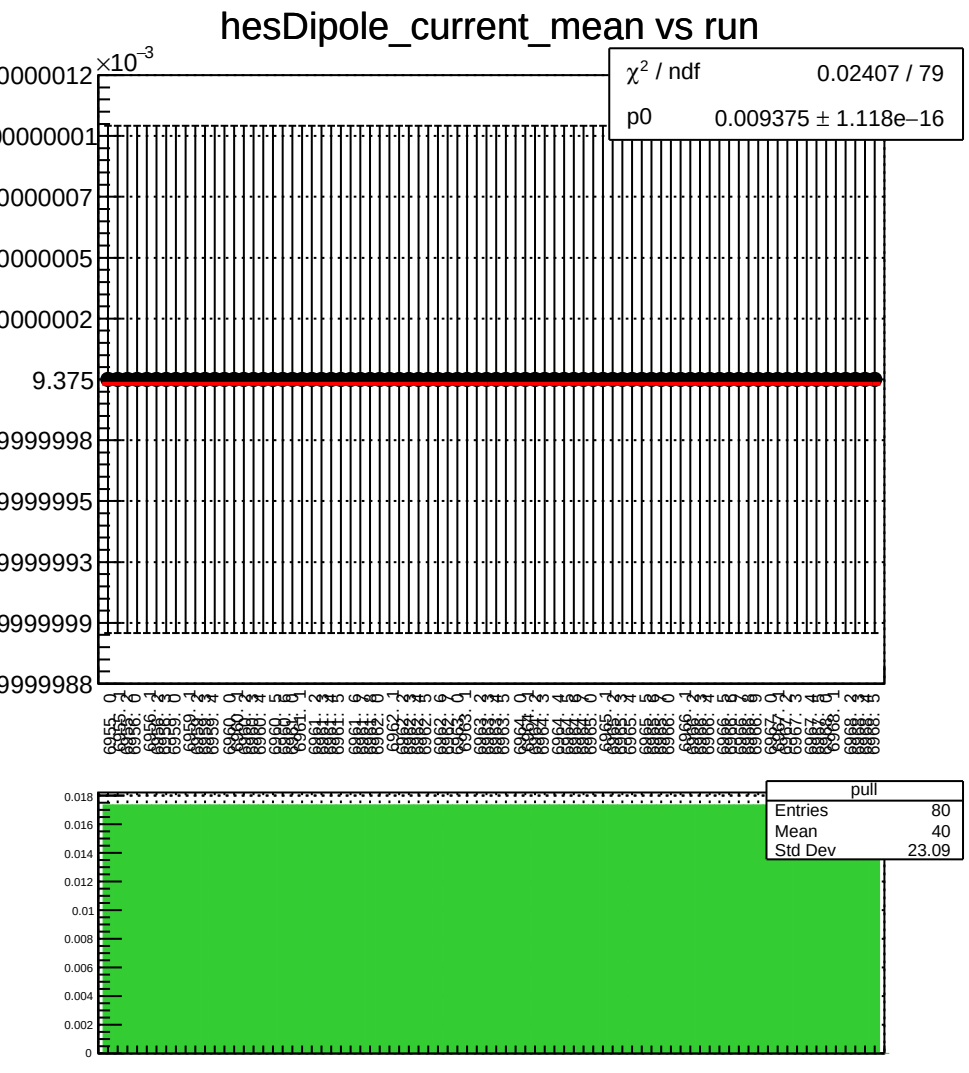

pull1D
Entries 80
Mean 0
Std Dev 0

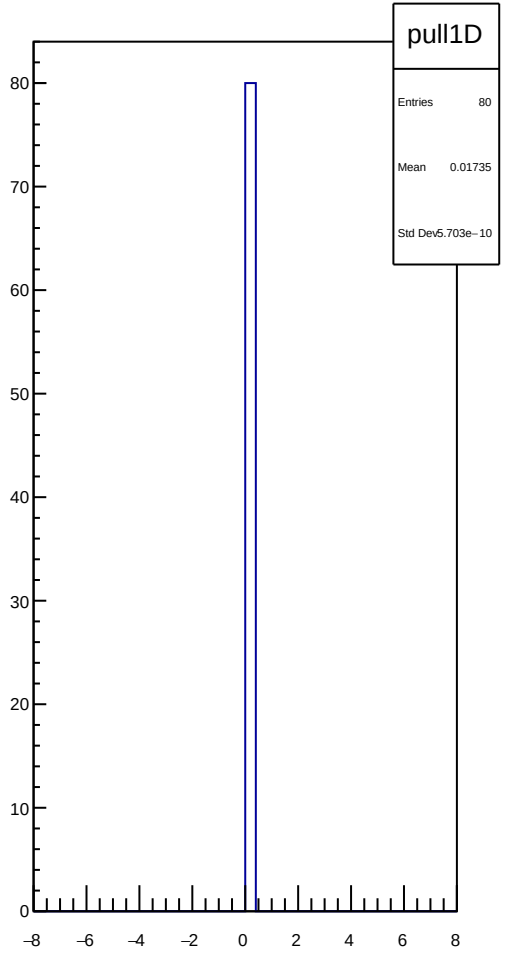

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.659e+25 / 79
p0 762.5 ± 1.118e−16
762.5065
762.506
762.5055
762.505
762.5045
pull
Entries 80
Mean −1.855e+10
Std Dev 1.855e+10
×10⁹
1000
500
0
−500
−1000

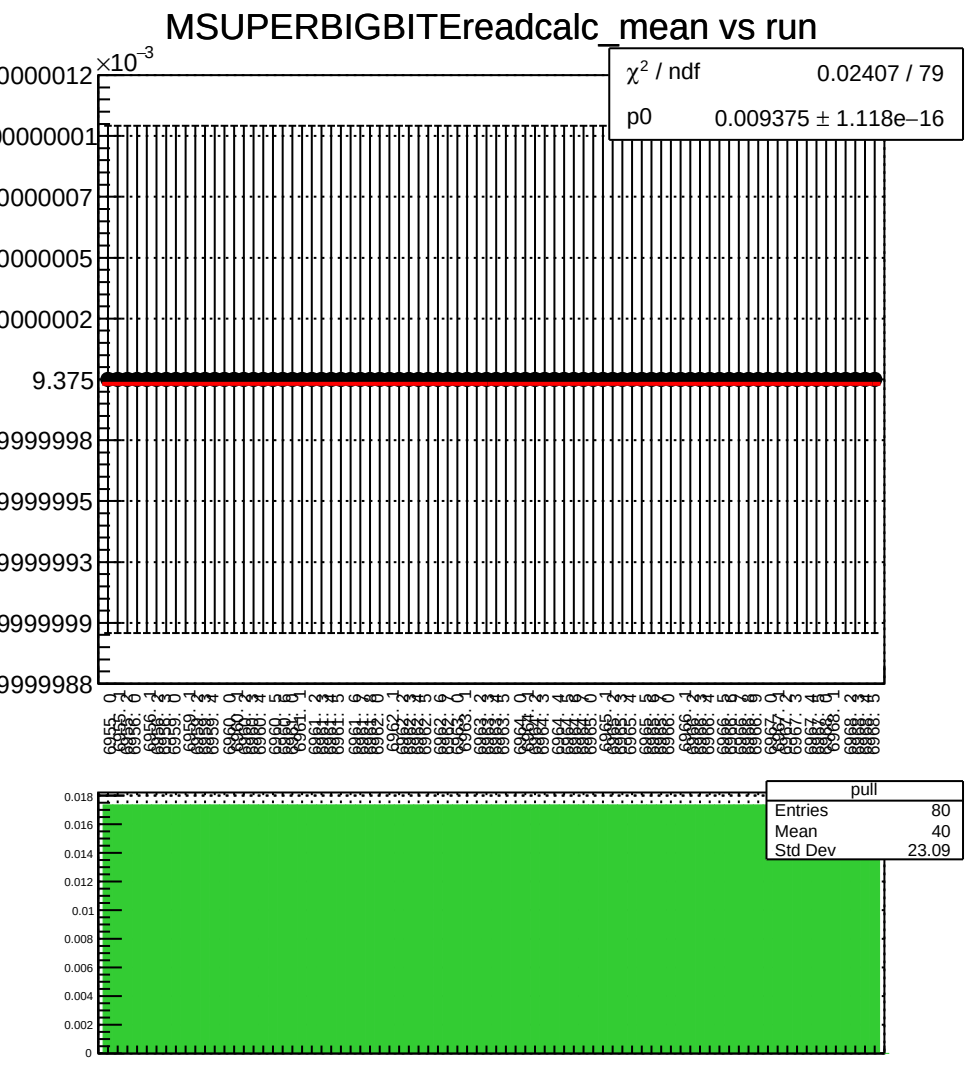

pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

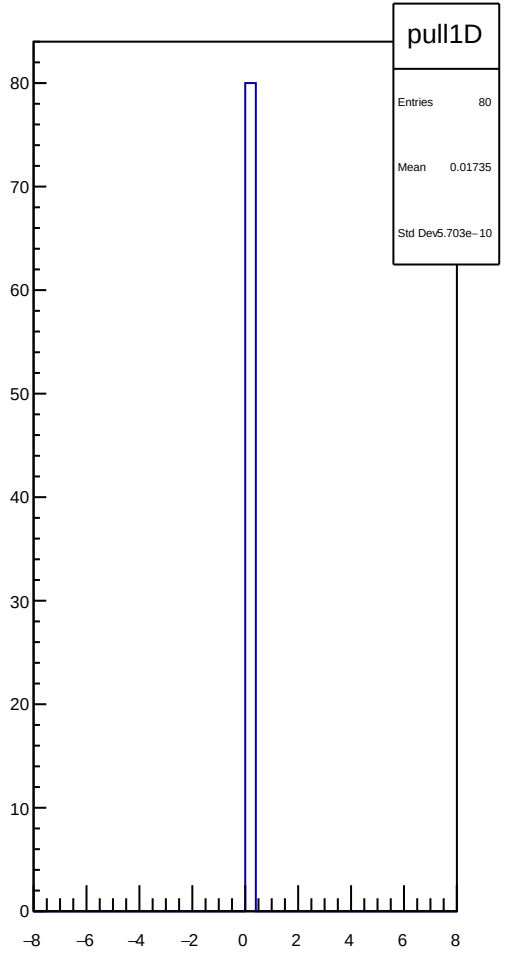

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.463e+26 / 79
p0 977.7 ± 1.118e−16
977.727
977.726
977.725
977.724
977.723
977.722
×10⁹
2000
1000
0
−1000
−2000
−3000
pull
Entries 80
Mean 5.353e+09
Std Dev 5.353e+09

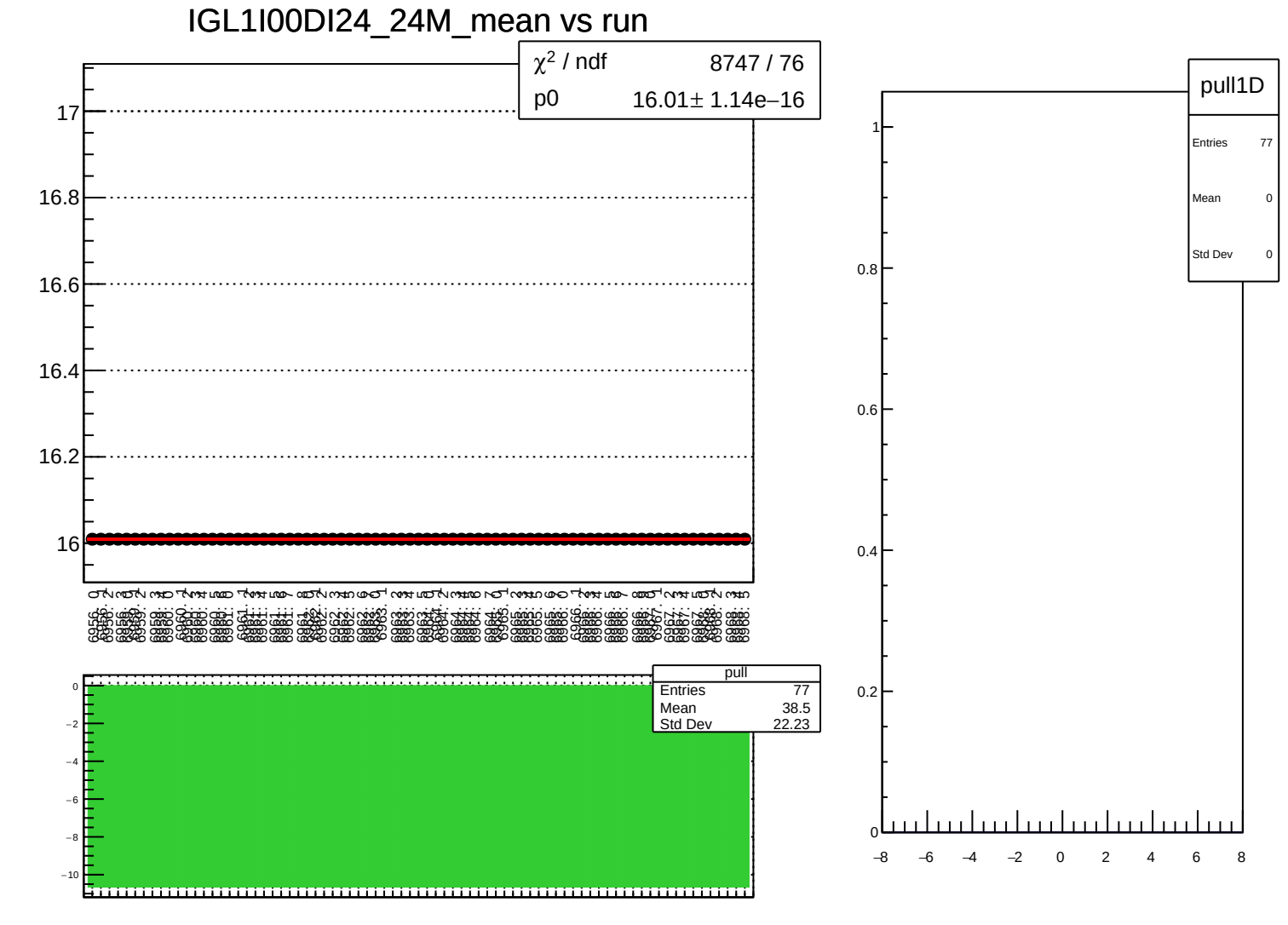

pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

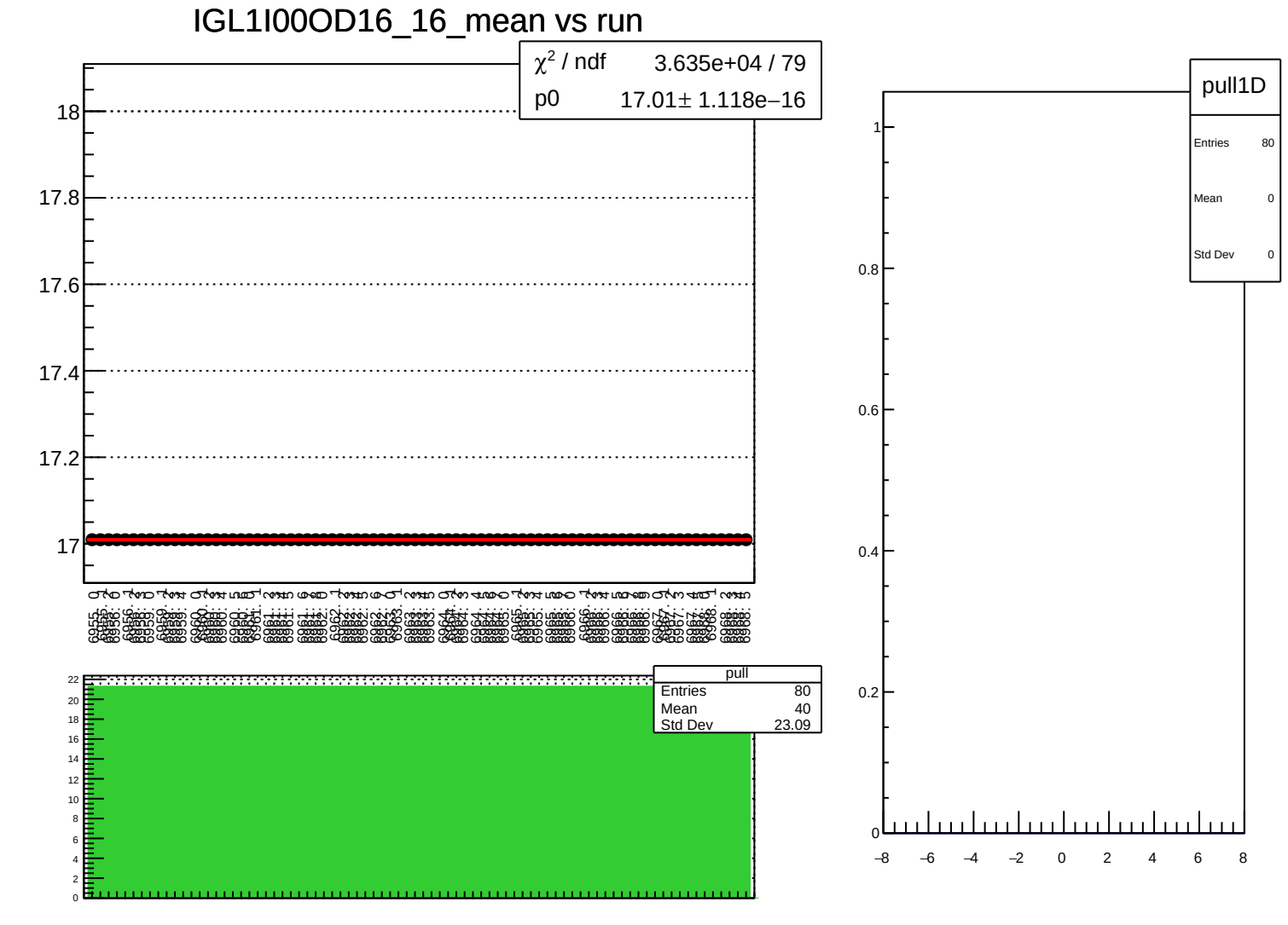

hesDipole_current_mean vs run
χ² / ndf 0.02407 / 79
p0 0.009375 ± 1.118e−16
×10⁻³
pull
Entries 80
Mean 40
Std Dev 23.09

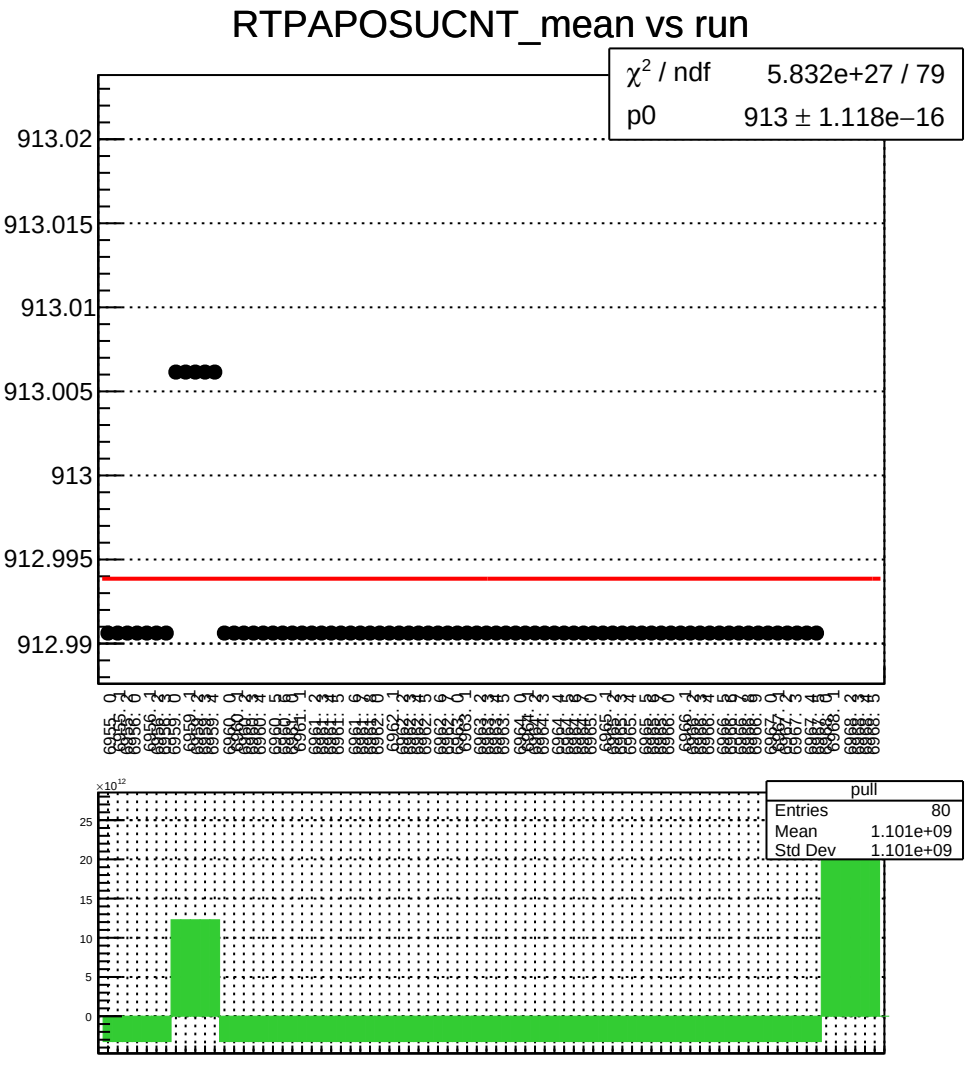

pull1D
Entries 80
Mean 0.01735
Std Dev 5.703e−10

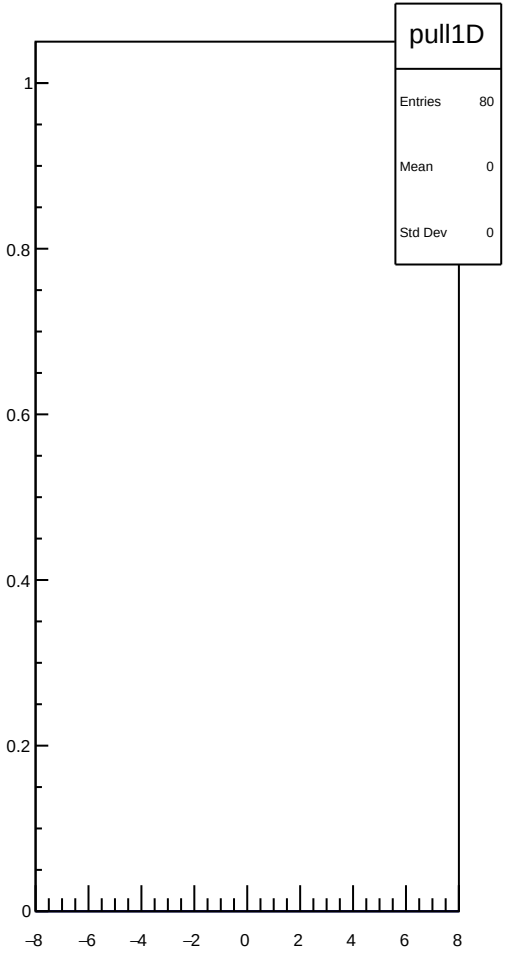

MSUPERBIGBITEreadcalc_mean vs run
×10⁻³
χ² / ndf 0.02407 / 79
p0 0.009375 ± 1.118e−16
9.375
pull
Entries 80
Mean 40
Std Dev 23.09

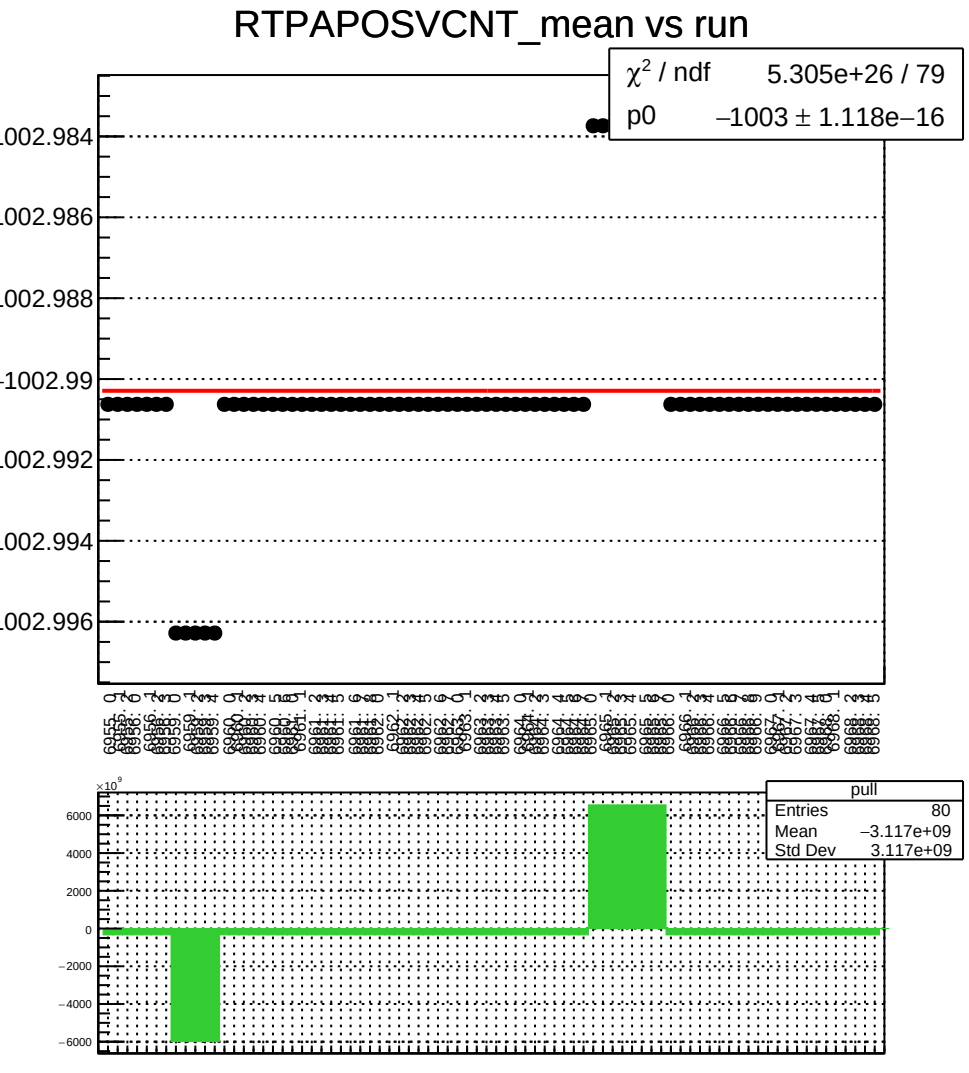

pull1D
Entries 80
Mean 0.01735
Std Dev 5.703e−10

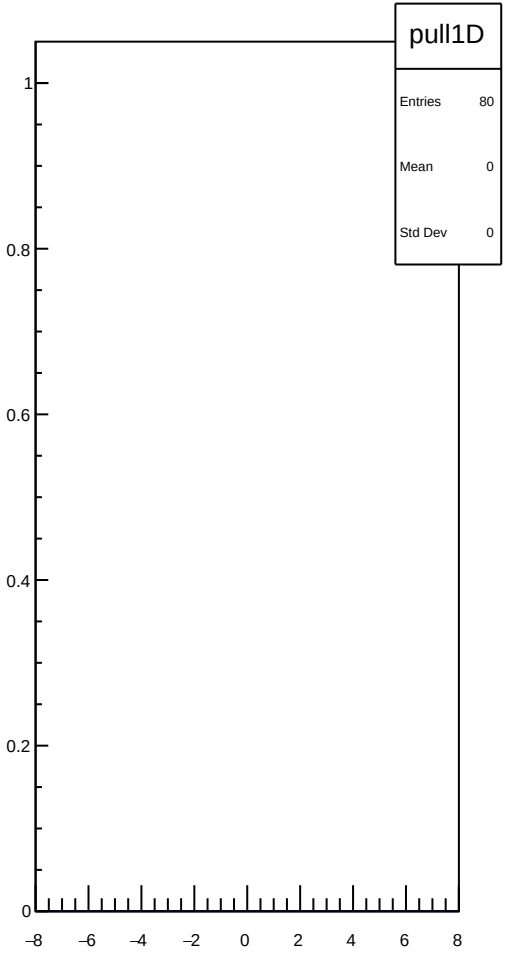

IGL1I00DI24_24M_mean vs run
χ² / ndf 8747 / 76
p0 16.01± 1.14e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 77
Mean 38.5
Std Dev 22.23
0
−2
−4
−6
−8
−10
pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00OD16_16_mean vs run
χ² / ndf 3.635e+04 / 79
p0 17.01± 1.118e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 80
Mean 40
Std Dev 23.09
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 5.832e+27 / 79
p0 913 ± 1.118e−16
913.02
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 80
Mean 1.101e+09
Std Dev 1.101e+09
×10¹²
25
20
15
10
5
0


pull1D
Entries 80
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 5.305e+26 / 79
p0 −1003 ± 1.118e−16
−1002.984
−1002.986
−1002.988
−1002.99
−1002.992
−1002.994
−1002.996
pull
Entries 80
Mean −3.117e+09
Std Dev 3.117e+09
×10⁹
6000
4000
2000
0
−2000
−4000
−6000


pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8